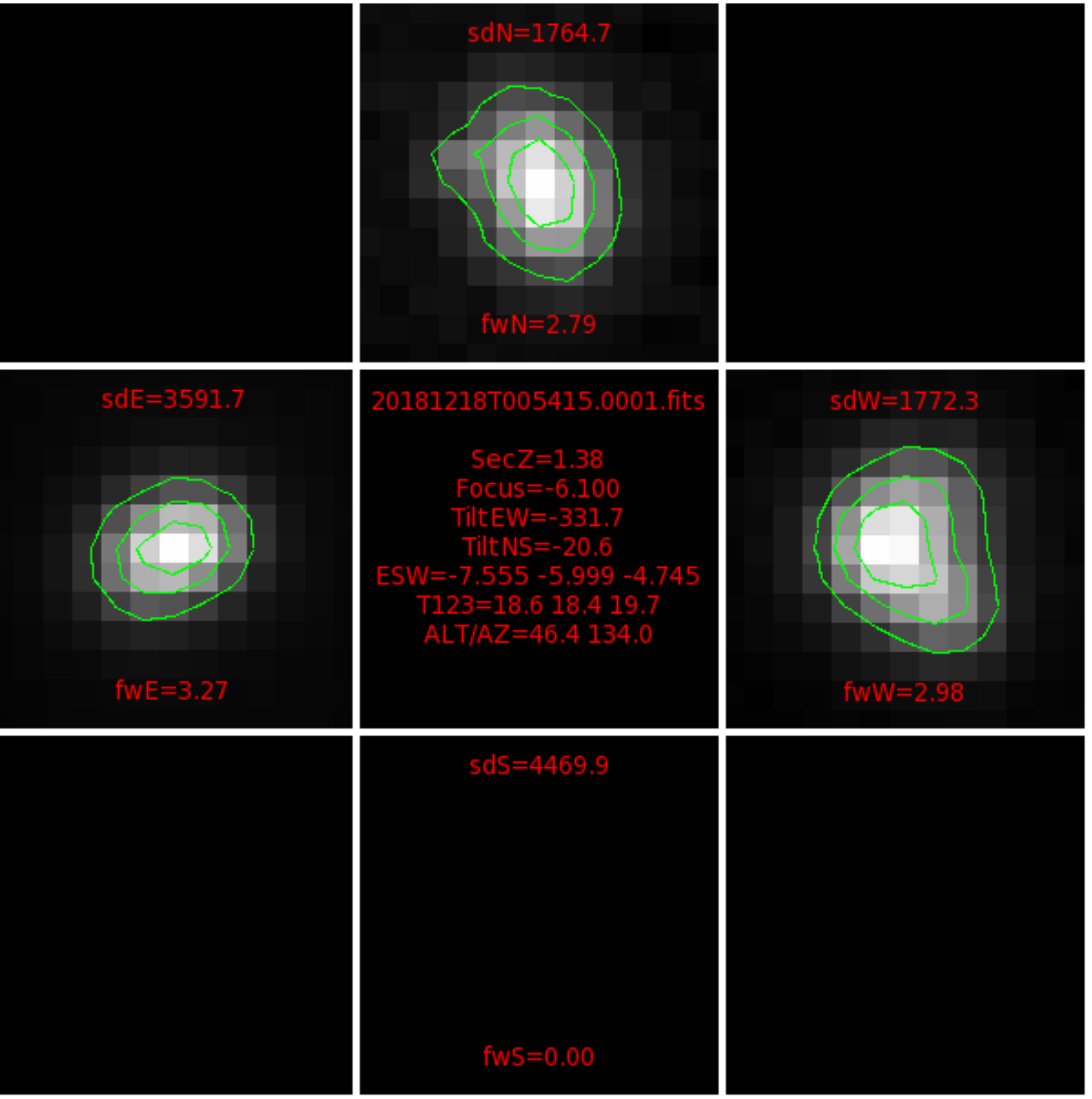
sdN=1764.7
fwN=2.79
sdE=3591.7
fwE=3.27
20181218T005415.0001.fits
SecZ=1.38
Focus=-6.100
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.555 -5.999 -4.745
T123=18.6 18.4 19.7
ALT/AZ=46.4 134.0
sdW=1772.3
fwW=2.98
sdS=4469.9
fwS=0.00
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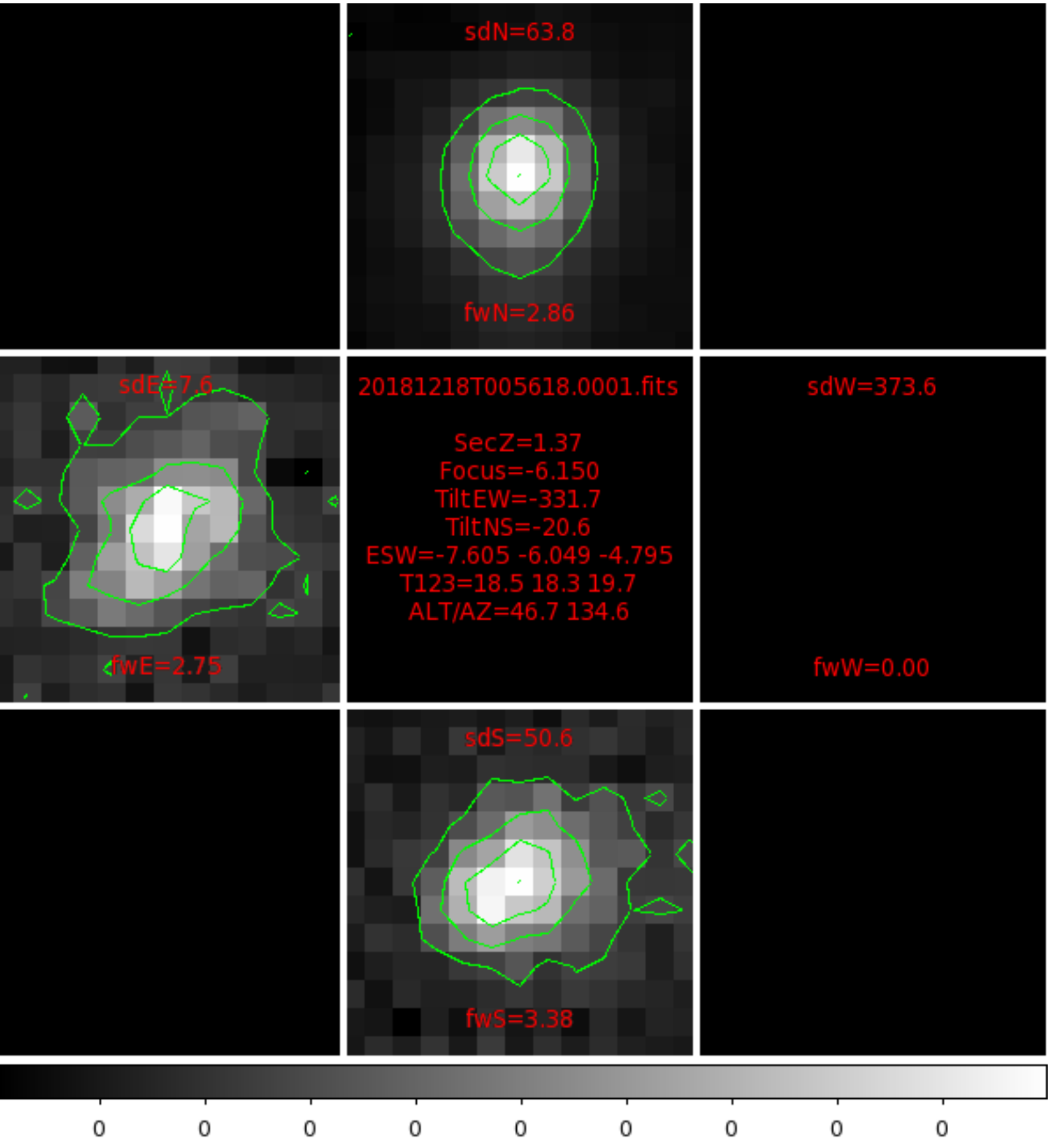
sdN=63.8
fwN=2.86
sdE=7.6
fwE=2.75
20181218T005618.0001.fits
SecZ=1.37
Focus=-6.150
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.605 -6.049 -4.795
T123=18.5 18.3 19.7
ALT/AZ=46.7 134.6
sdW=373.6
fwW=0.00
sdS=50.6
fwS=3.38
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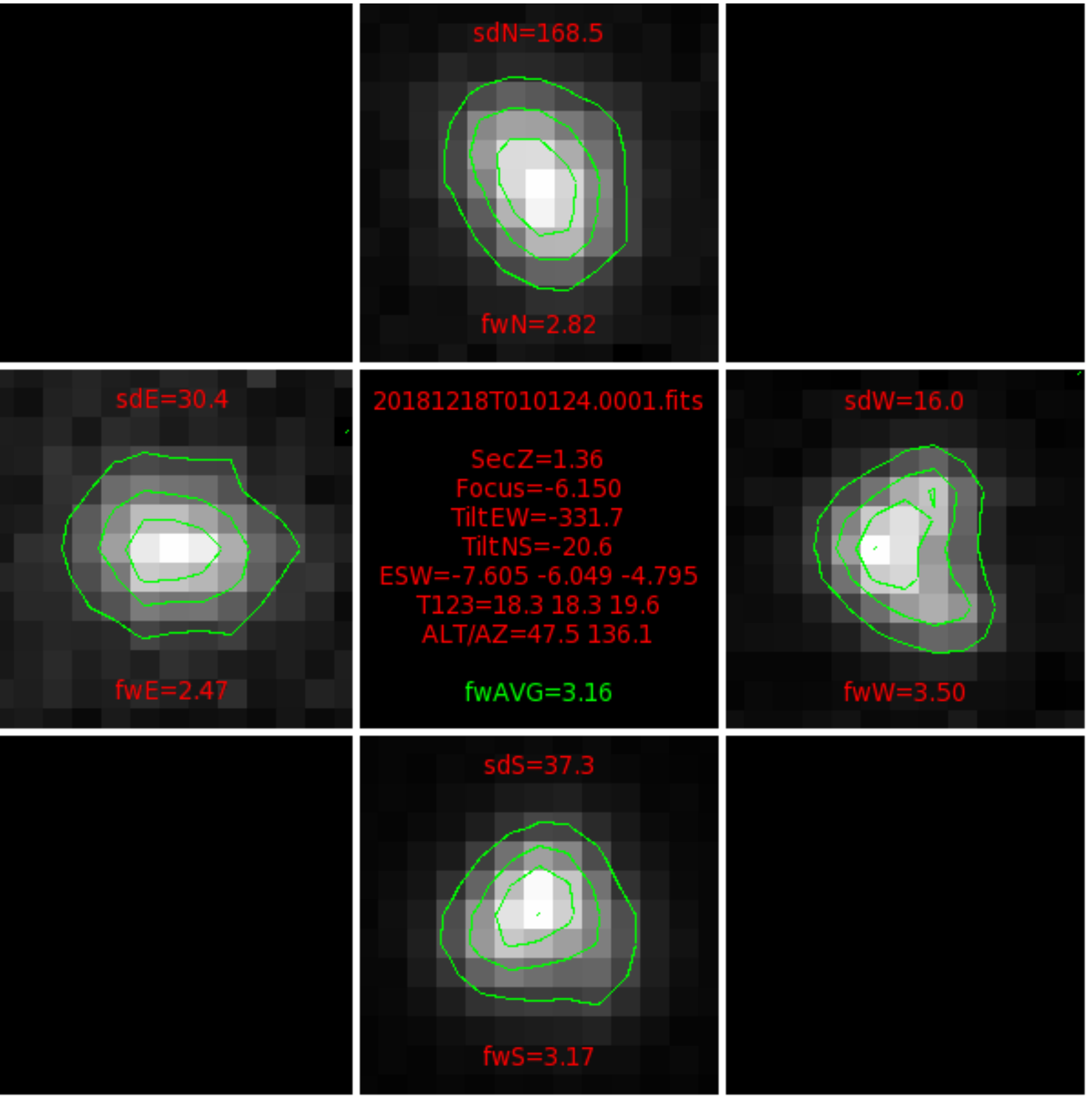
sdN=168.5
fwN=2.82
sdE=30.4
fwE=2.47
20181218T010124.0001.fits
SecZ=1.36
Focus=-6.150
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.605 -6.049 -4.795
T123=18.3 18.3 19.6
ALT/AZ=47.5 136.1
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sdW=16.0
fwW=3.50
sdS=37.3
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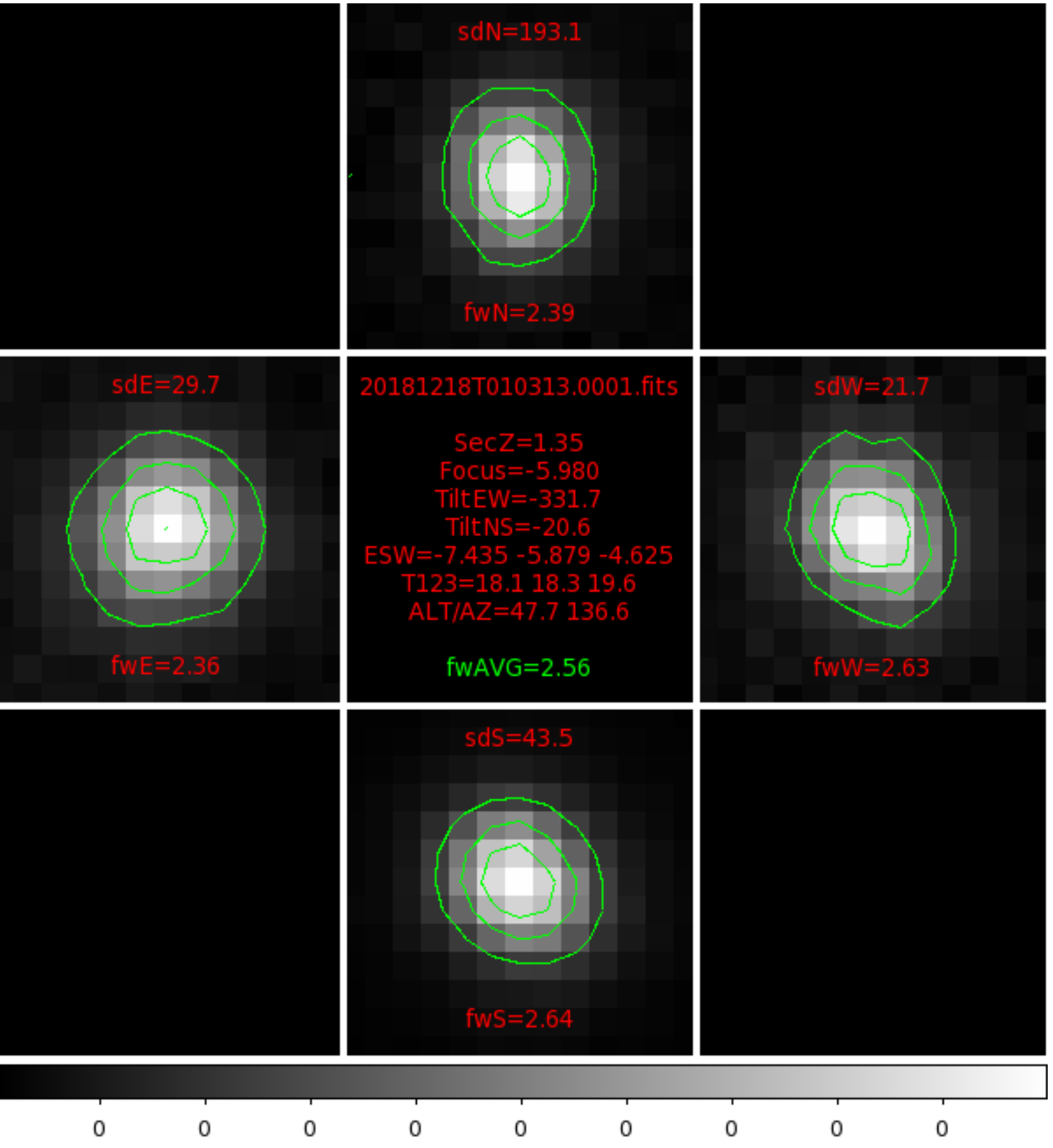
sdN=193.1
fwN=2.39
sdE=29.7
fwE=2.36
20181218T010313.0001.fits
SecZ=1.35
Focus=-5.980
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.435 -5.879 -4.625
T123=18.1 18.3 19.6
ALT/AZ=47.7 136.6
fwAVG=2.56
sdW=21.7
fwW=2.63
sdS=43.5
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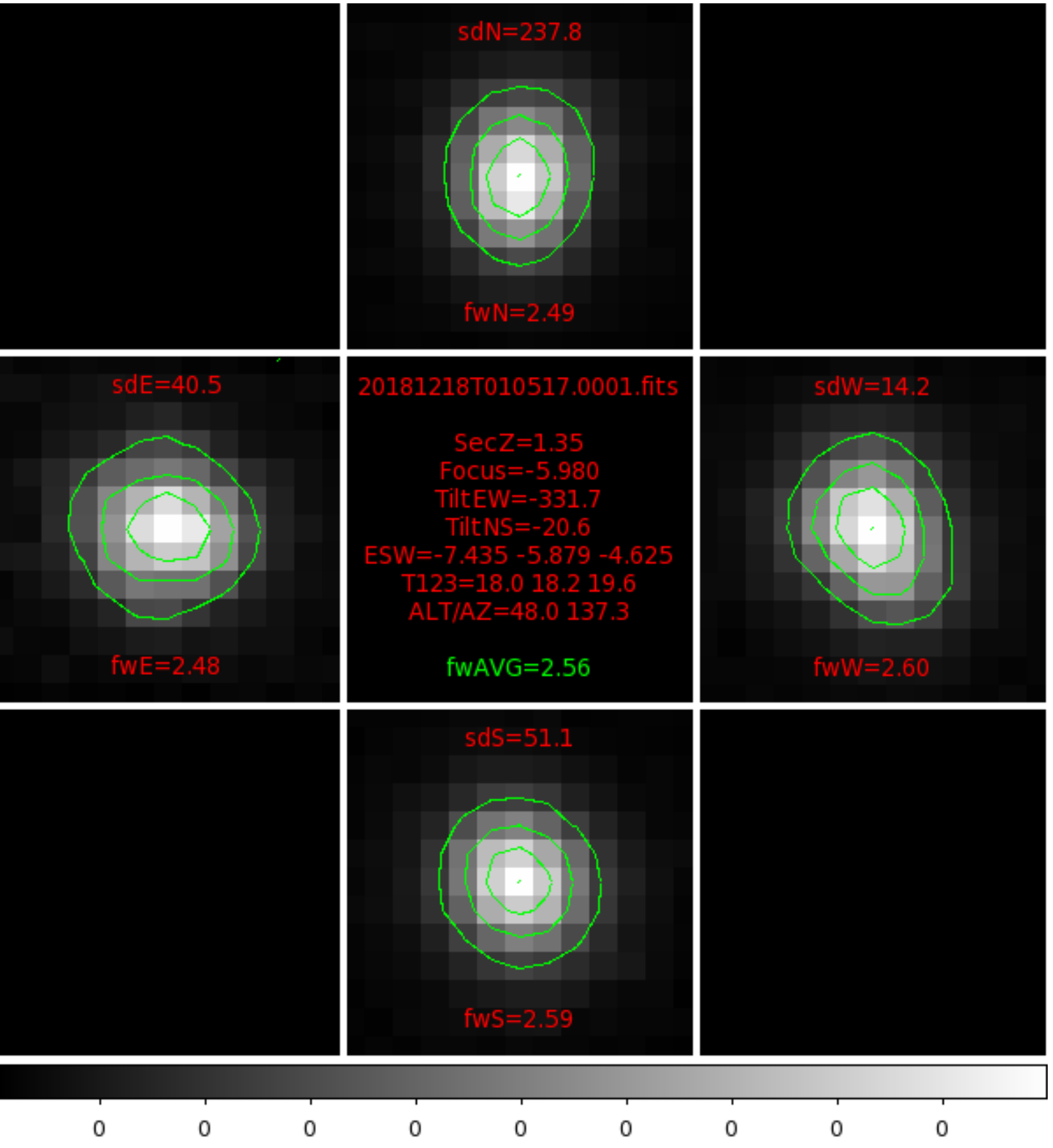
sdN=237.8
fwN=2.49
sdE=40.5
fwE=2.48
20181218T010517.0001.fits
SecZ=1.35
Focus=-5.980
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.435 -5.879 -4.625
T123=18.0 18.2 19.6
ALT/AZ=48.0 137.3
fwAVG=2.56
sdW=14.2
fwW=2.60
sdS=51.1
fwS=2.59
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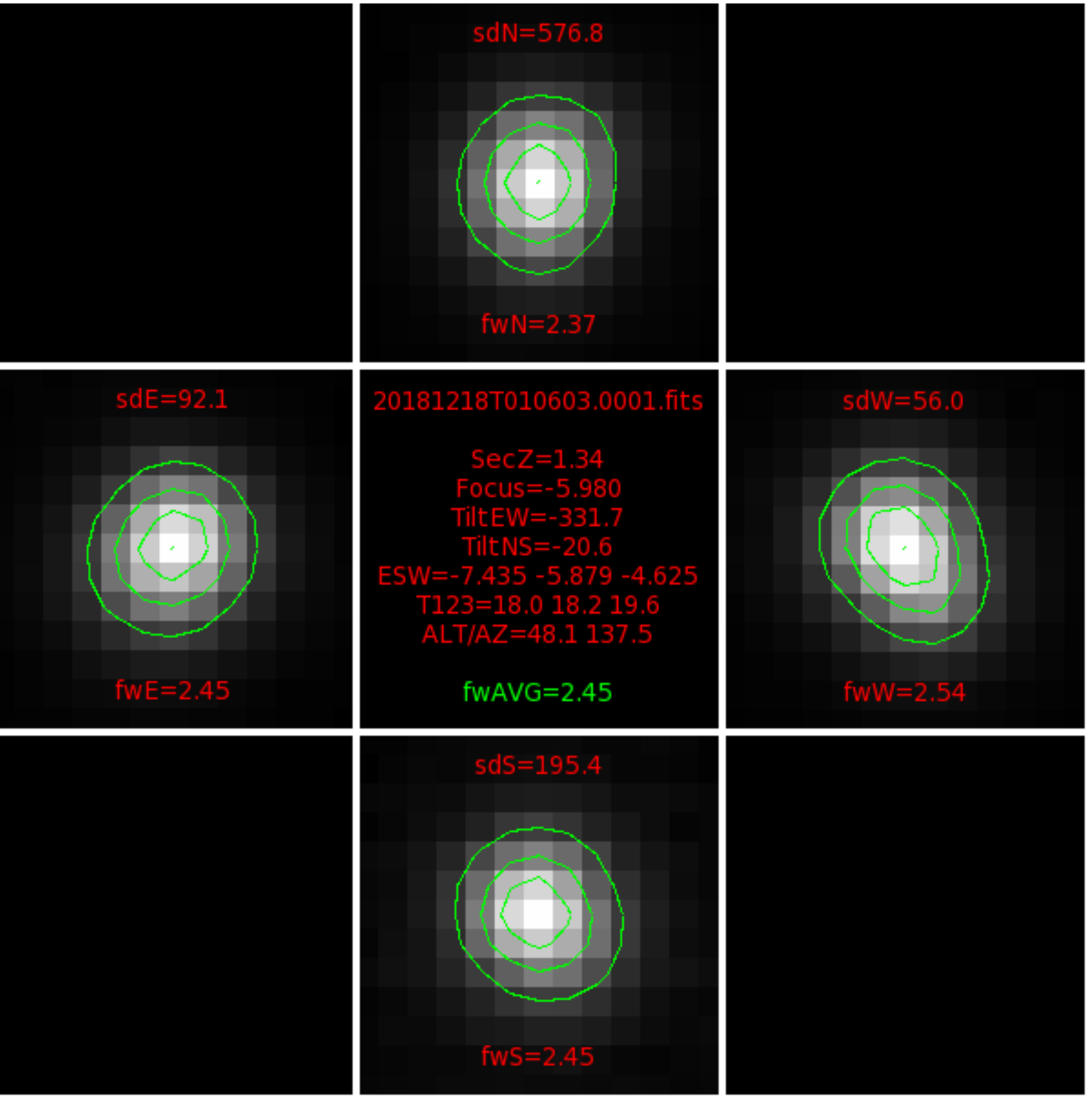
sdN=576.8
fwN=2.37
sdE=92.1
fwE=2.45
20181218T010603.0001.fits
SecZ=1.34
Focus=-5.980
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.435 -5.879 -4.625
T123=18.0 18.2 19.6
ALT/AZ=48.1 137.5
fwAVG=2.45
sdW=56.0
fwW=2.54
sdS=195.4
fwS=2.45
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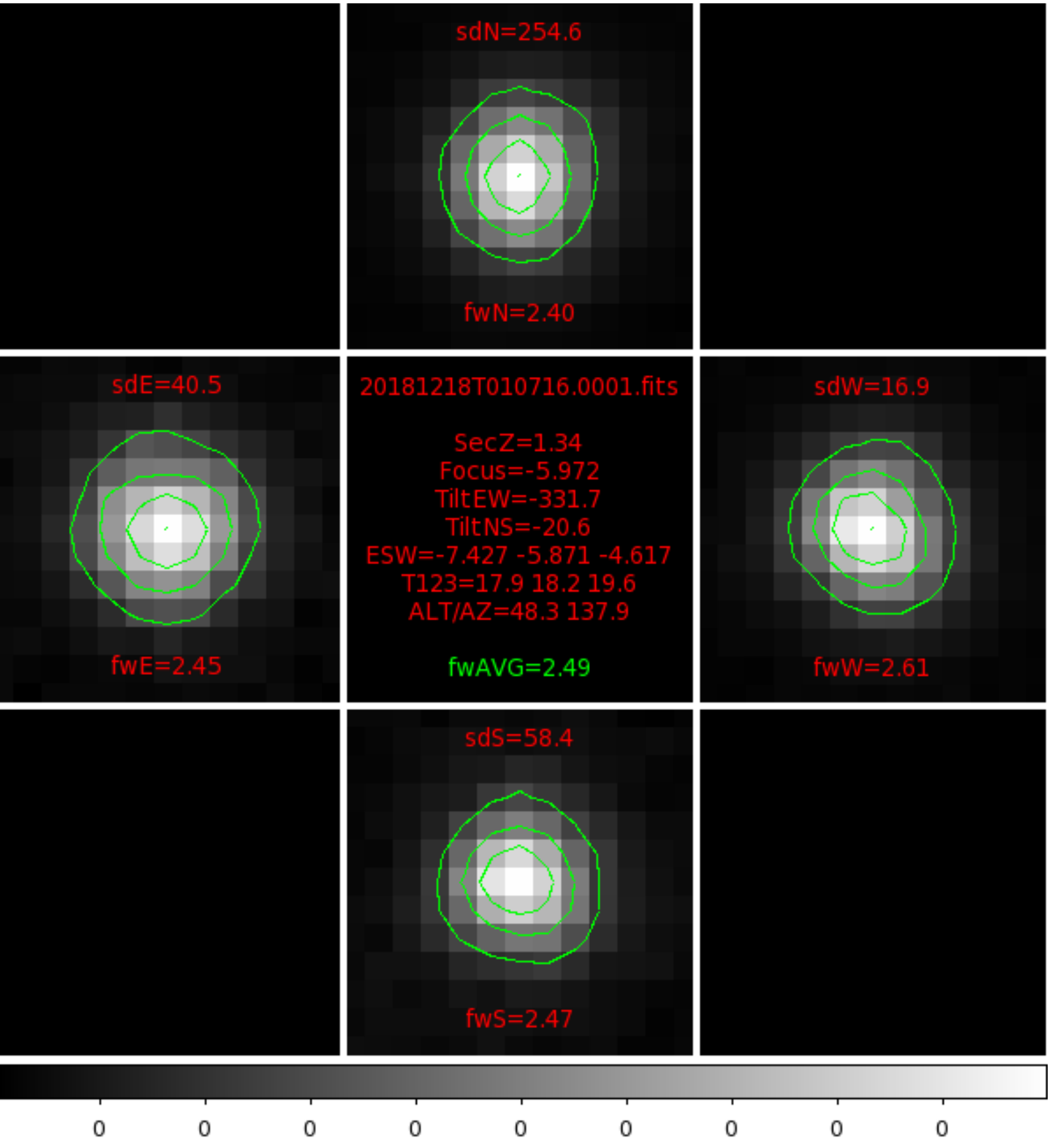
sdN=254.6
fwN=2.40
sdE=40.5
fwE=2.45
20181218T010716.0001.fits
SecZ=1.34
Focus=-5.972
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.427 -5.871 -4.617
T123=17.9 18.2 19.6
ALT/AZ=48.3 137.9
fwAVG=2.49
sdW=16.9
fwW=2.61
sdS=58.4
fwS=2.47
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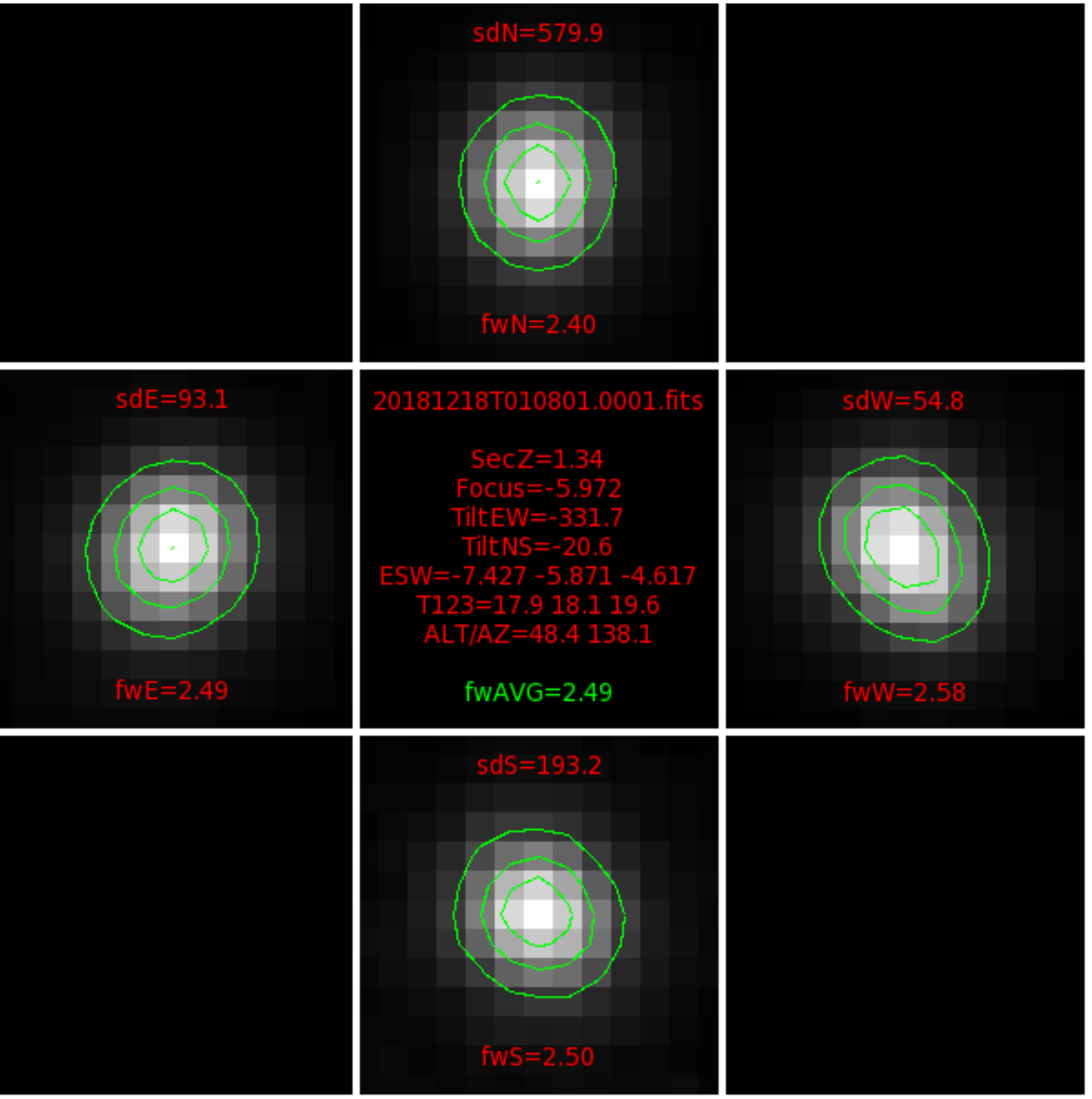
sdN=579.9
fwN=2.40
sdE=93.1
fwE=2.49
20181218T010801.0001.fits
SecZ=1.34
Focus=-5.972
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.427 -5.871 -4.617
T123=17.9 18.1 19.6
ALT/AZ=48.4 138.1
fwAVG=2.49
sdW=54.8
fwW=2.58
sdS=193.2
fwS=2.50
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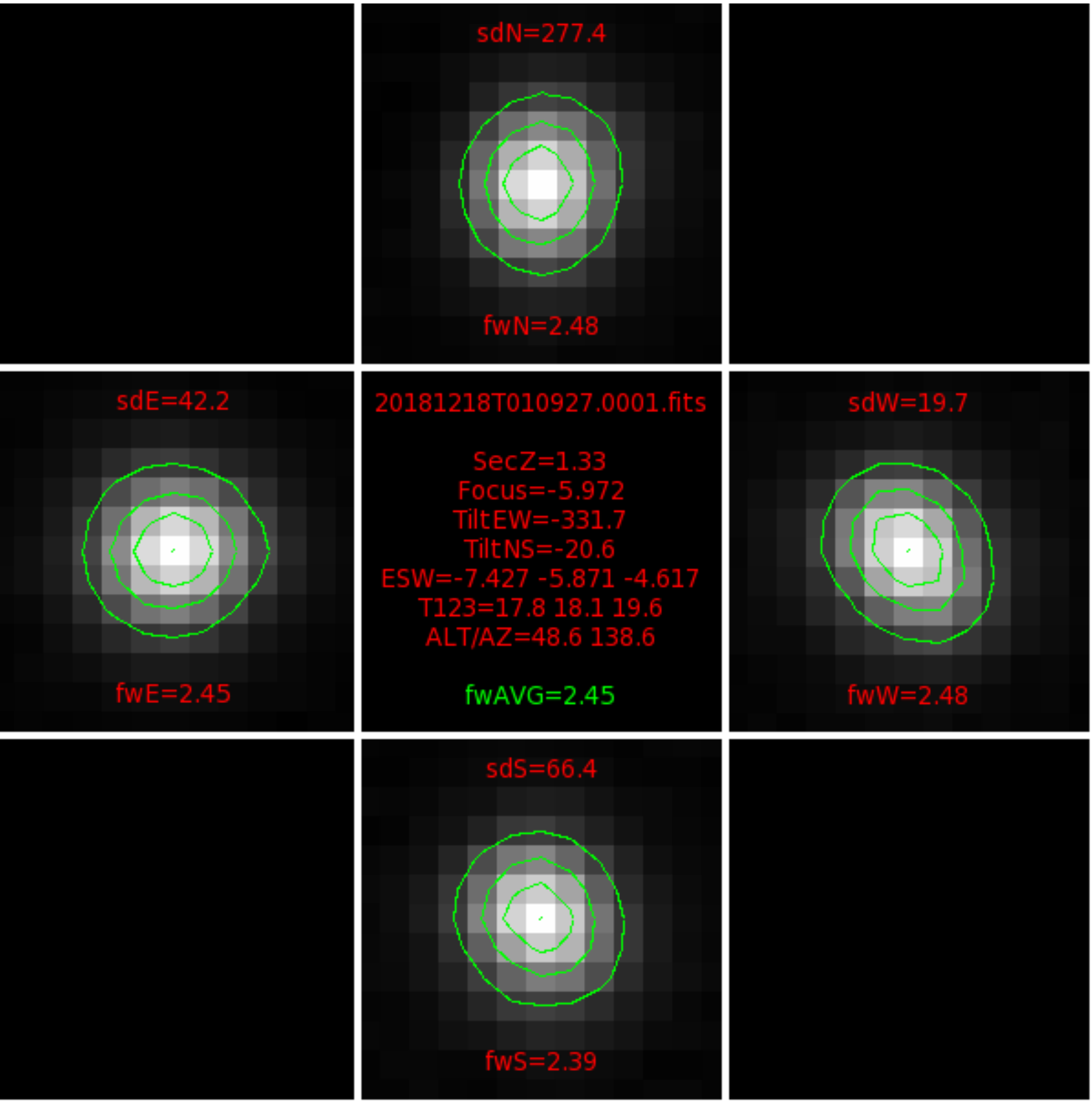
sdN=277.4
fwN=2.48
sdE=42.2
fwE=2.45
20181218T010927.0001.fits
SecZ=1.33
Focus=-5.972
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.427 -5.871 -4.617
T123=17.8 18.1 19.6
ALT/AZ=48.6 138.6
fwAVG=2.45
sdW=19.7
fwW=2.48
sdS=66.4
fwS=2.39
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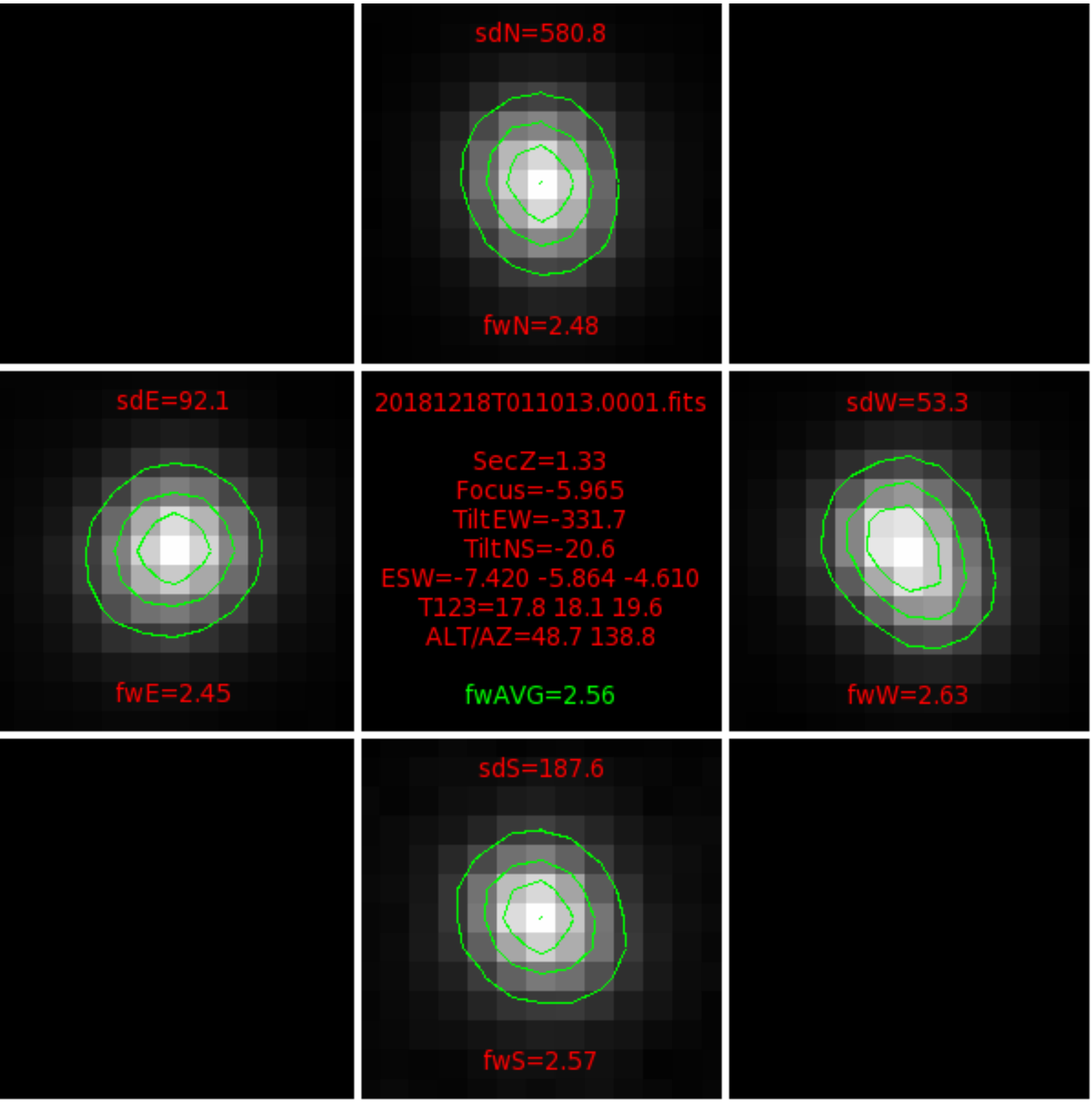
sdN=580.8
fwN=2.48
sdE=92.1
fwE=2.45
20181218T011013.0001.fits
SecZ=1.33
Focus=-5.965
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.420 -5.864 -4.610
T123=17.8 18.1 19.6
ALT/AZ=48.7 138.8
fwAVG=2.56
sdW=53.3
fwW=2.63
sdS=187.6
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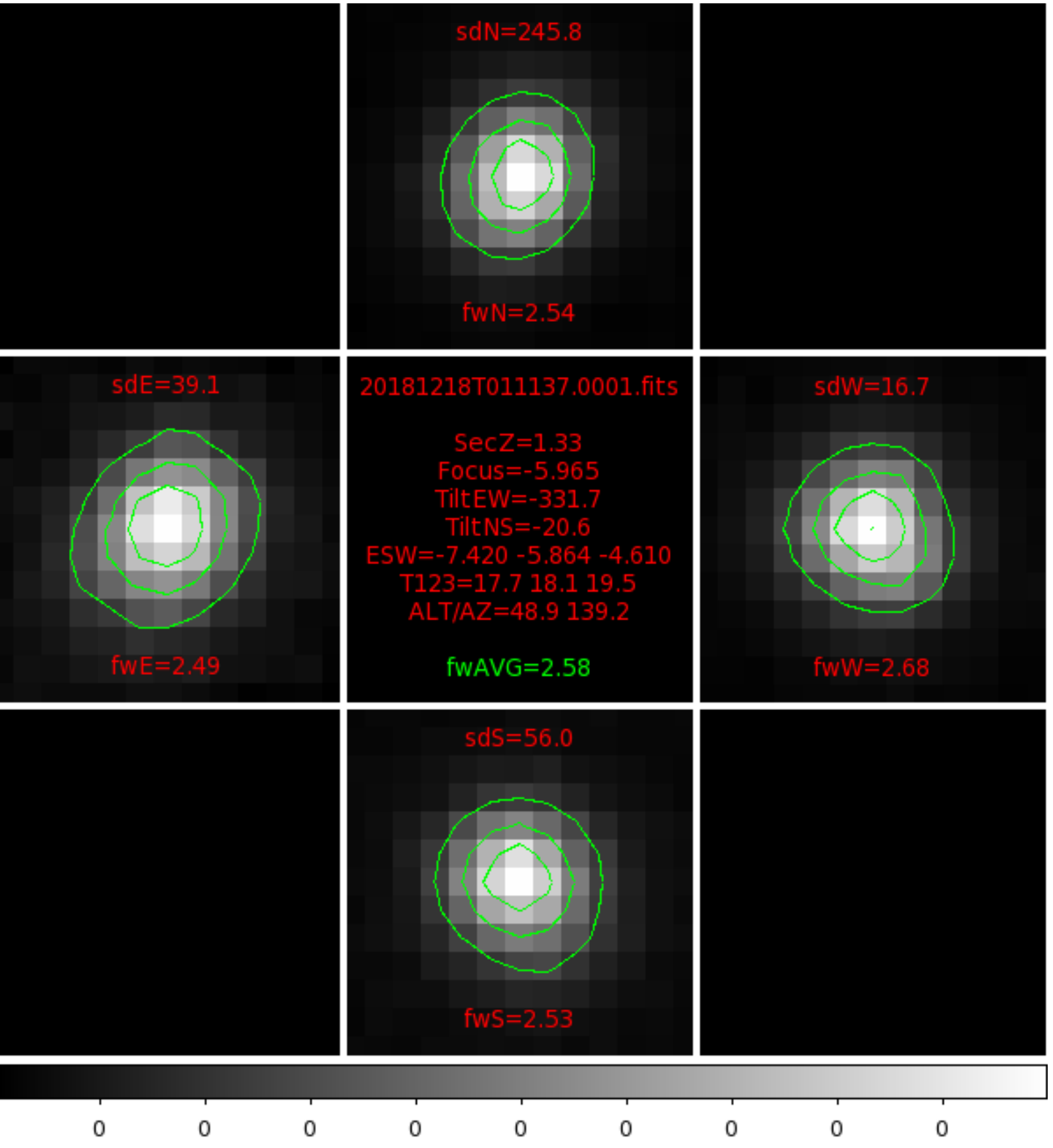
sdN=245.8
fwN=2.54
sdE=39.1
fwE=2.49
20181218T011137.0001.fits
SecZ=1.33
Focus=-5.965
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.420 -5.864 -4.610
T123=17.7 18.1 19.5
ALT/AZ=48.9 139.2
fwAVG=2.58
sdW=16.7
fwW=2.68
sdS=56.0
fwS=2.53
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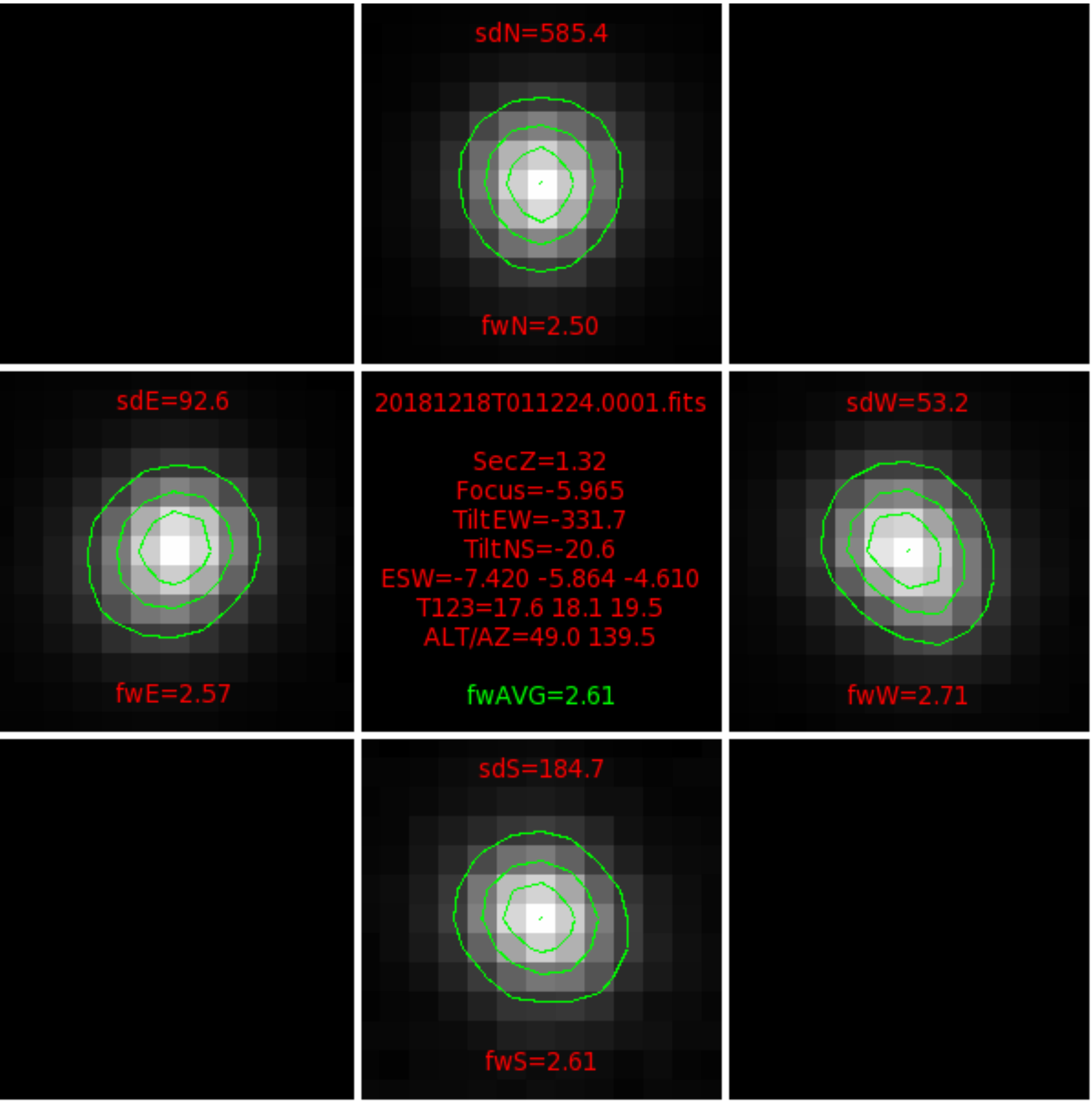
sdN=585.4
fwN=2.50
sdE=92.6
fwE=2.57
20181218T011224.0001.fits
SecZ=1.32
Focus=-5.965
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.420 -5.864 -4.610
T123=17.6 18.1 19.5
ALT/AZ=49.0 139.5
fwAVG=2.61
sdW=53.2
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sdS=184.7
fwS=2.61
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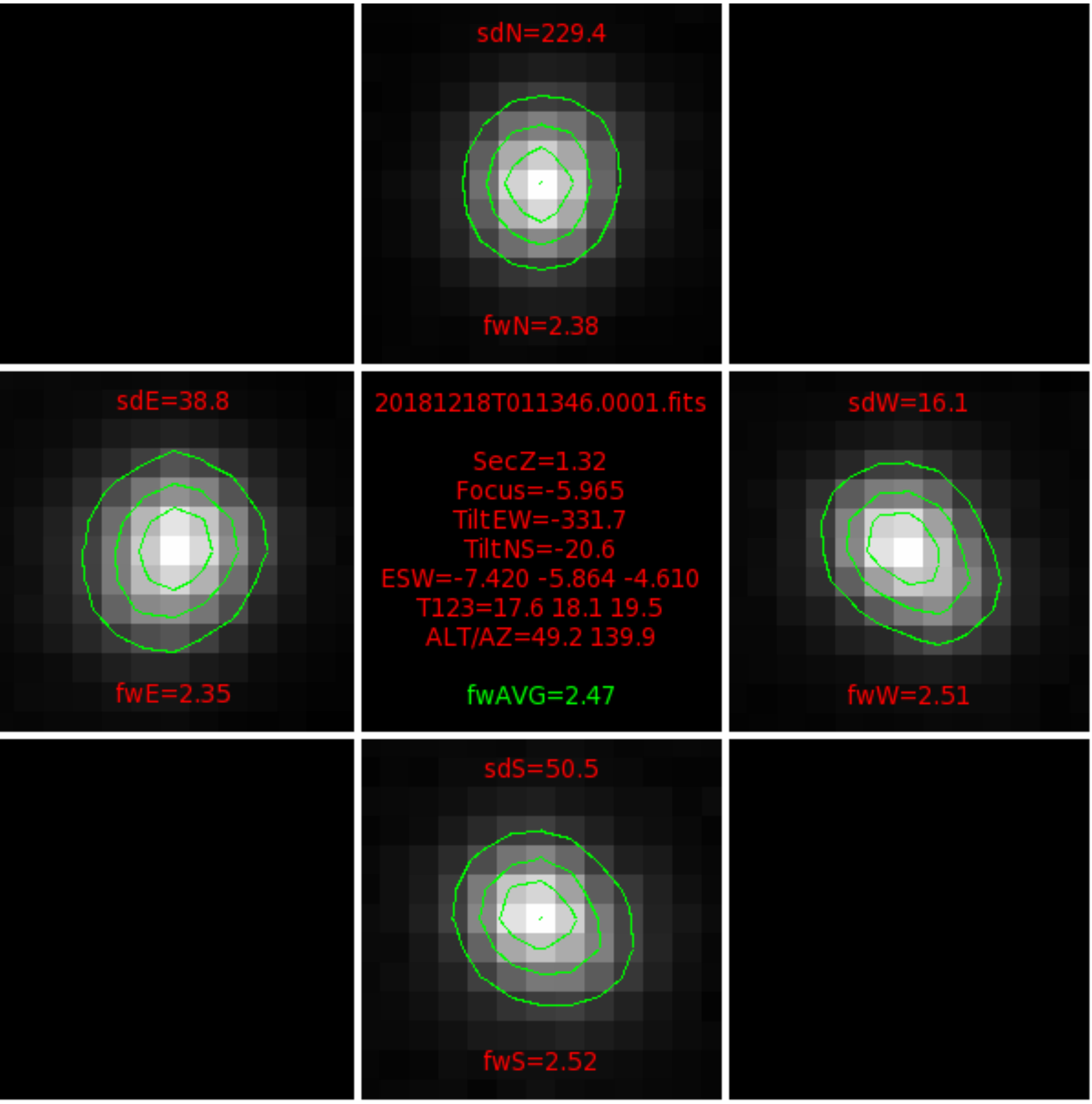
sdN=229.4
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sdE=38.8
fwE=2.35
20181218T011346.0001.fits
SecZ=1.32
Focus=-5.965
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.420 -5.864 -4.610
T123=17.6 18.1 19.5
ALT/AZ=49.2 139.9
fwAVG=2.47
sdW=16.1
fwW=2.51
sdS=50.5
fwS=2.52
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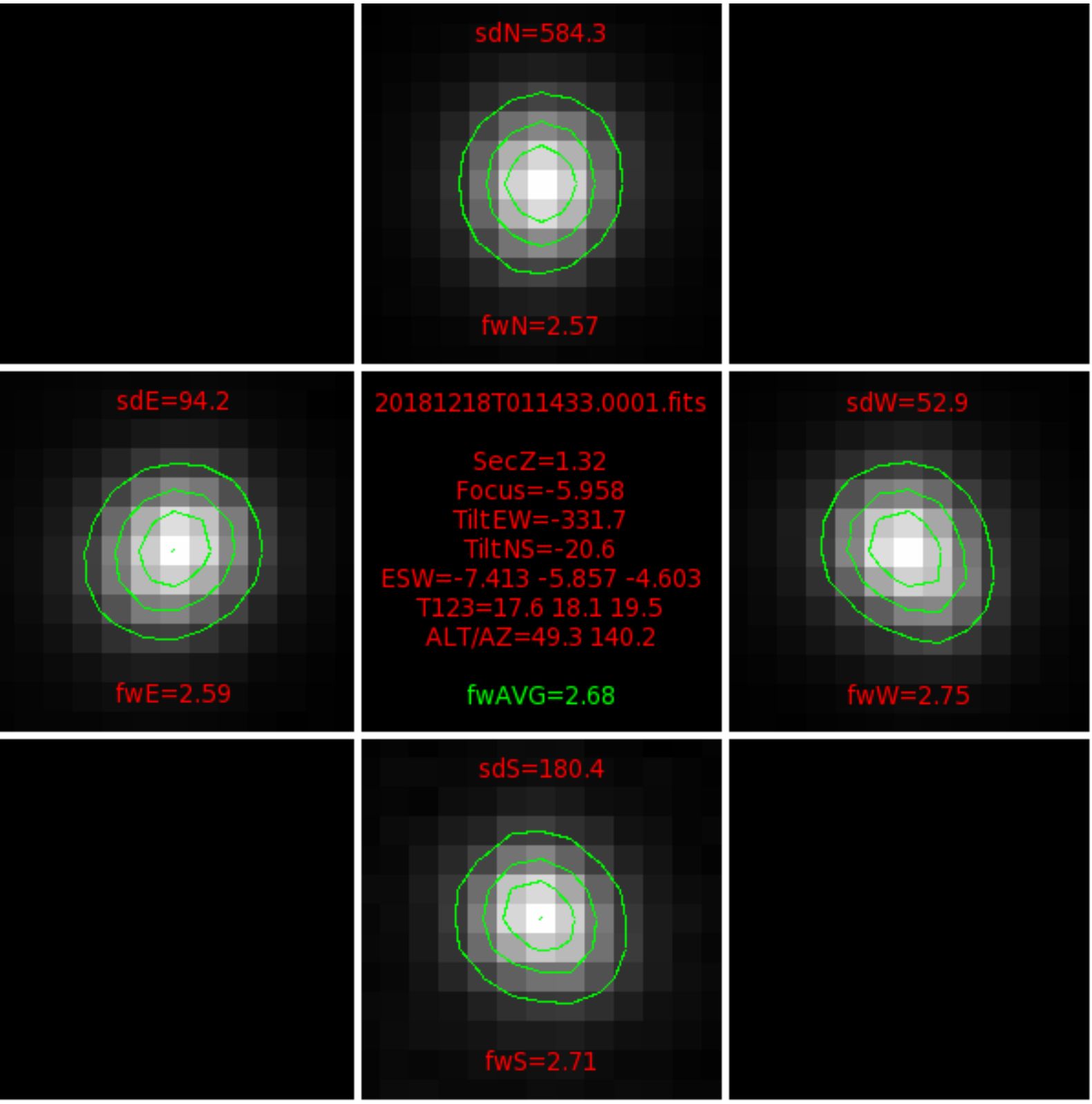
sdN=584.3
fwN=2.57
sdE=94.2
fwE=2.59
20181218T011433.0001.fits
SecZ=1.32
Focus=-5.958
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.413 -5.857 -4.603
T123=17.6 18.1 19.5
ALT/AZ=49.3 140.2
fwAVG=2.68
sdW=52.9
fwW=2.75
sdS=180.4
fwS=2.71
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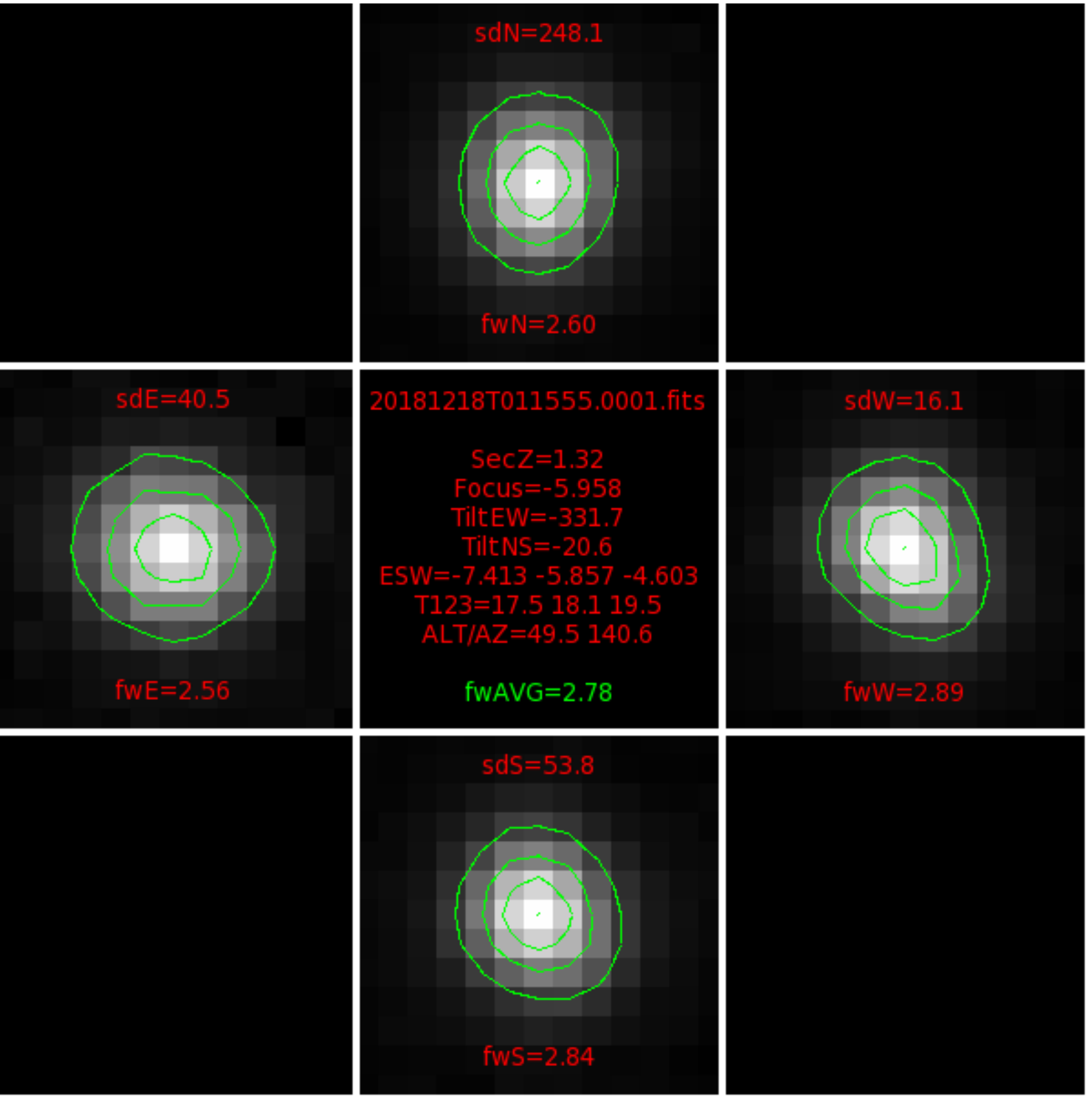
sdN=248.1
fwN=2.60
sdE=40.5
fwE=2.56
20181218T011555.0001.fits
SecZ=1.32
Focus=-5.958
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.413 -5.857 -4.603
T123=17.5 18.1 19.5
ALT/AZ=49.5 140.6
fwAVG=2.78
sdW=16.1
fwW=2.89
sdS=53.8
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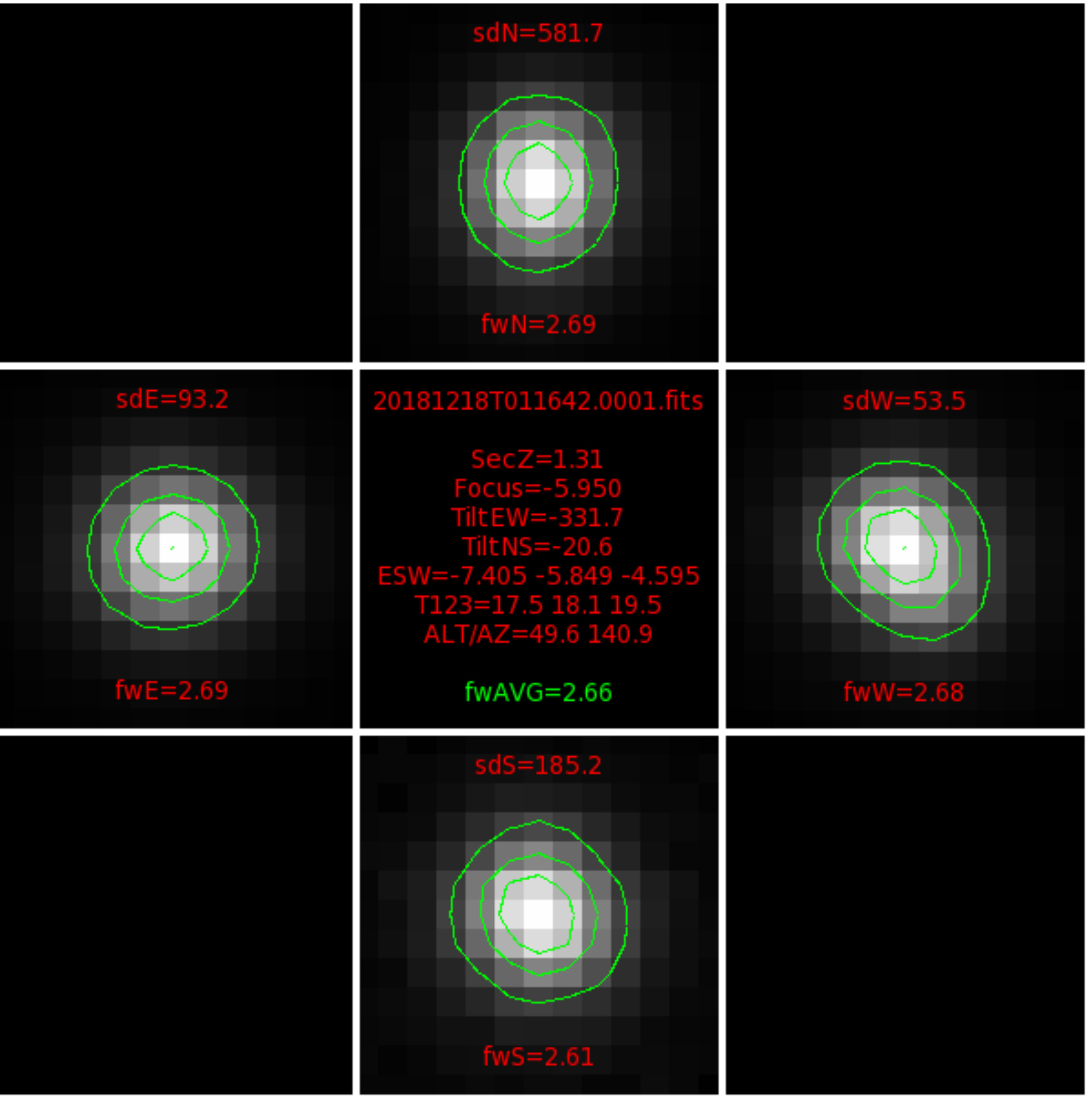
sdN=581.7
fwN=2.69
sdE=93.2
fwE=2.69
20181218T011642.0001.fits
SecZ=1.31
Focus=-5.950
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.405 -5.849 -4.595
T123=17.5 18.1 19.5
ALT/AZ=49.6 140.9
fwAVG=2.66
sdW=53.5
fwW=2.68
sdS=185.2
fwS=2.61
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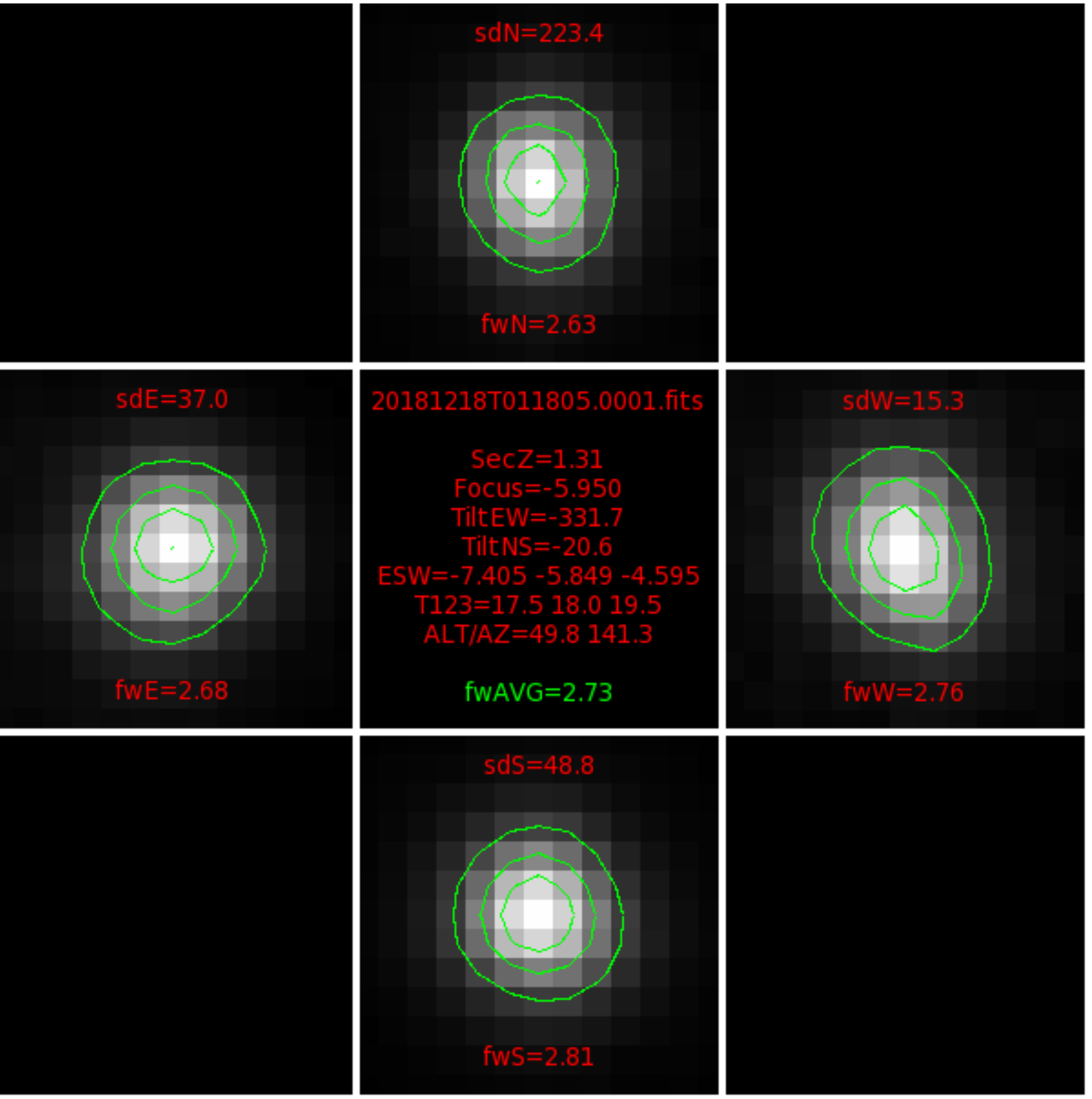
sdN=223.4
fwN=2.63
sdE=37.0
fwE=2.68
20181218T011805.0001.fits
SecZ=1.31
Focus=-5.950
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.405 -5.849 -4.595
T123=17.5 18.0 19.5
ALT/AZ=49.8 141.3
fwAVG=2.73
sdW=15.3
fwW=2.76
sdS=48.8
fwS=2.81
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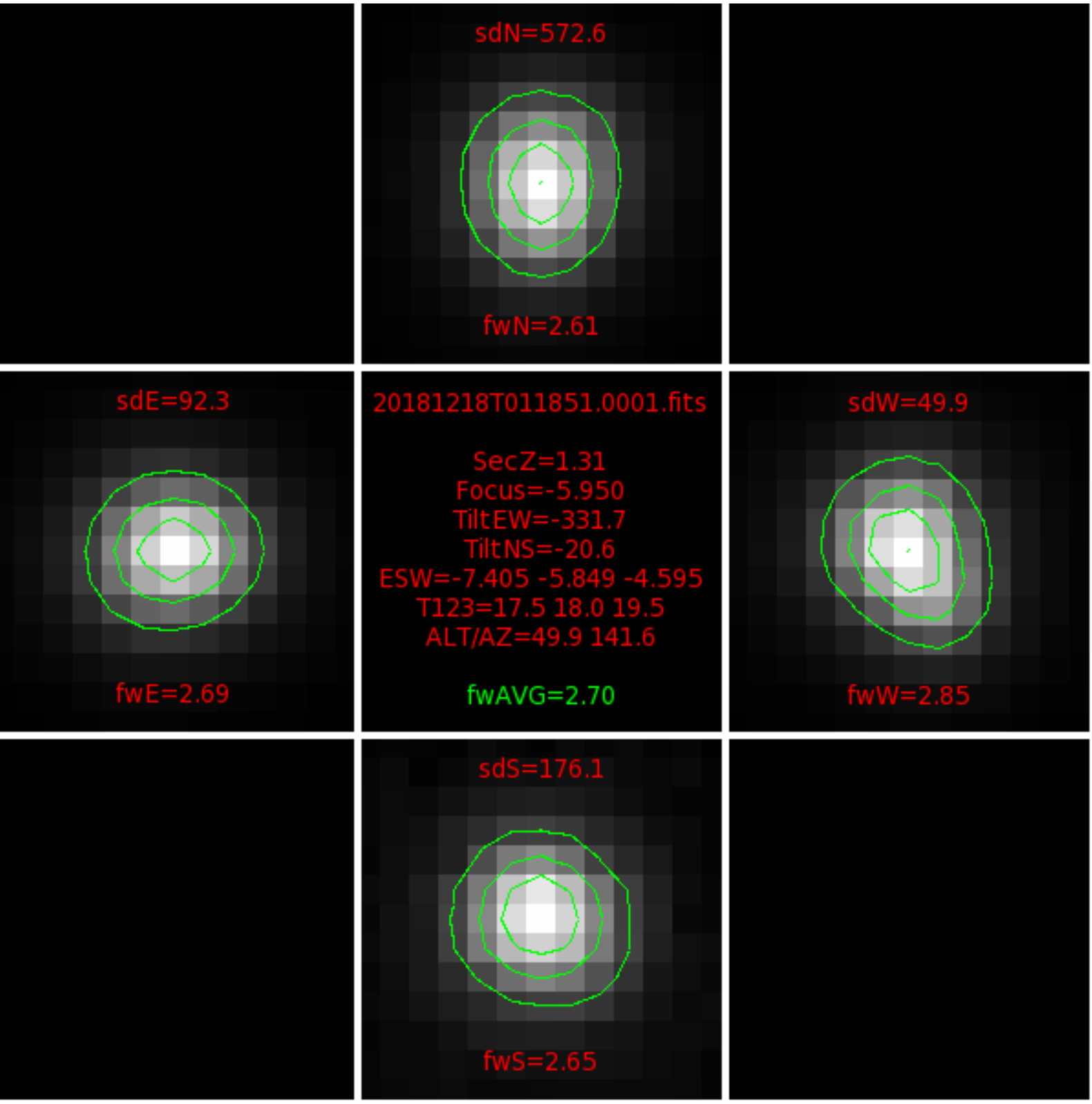
sdN=572.6
fwN=2.61
sdE=92.3
fwE=2.69
20181218T011851.0001.fits
SecZ=1.31
Focus=-5.950
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.405 -5.849 -4.595
T123=17.5 18.0 19.5
ALT/AZ=49.9 141.6
fwAVG=2.70
sdW=49.9
fwW=2.85
sdS=176.1
fwS=2.65
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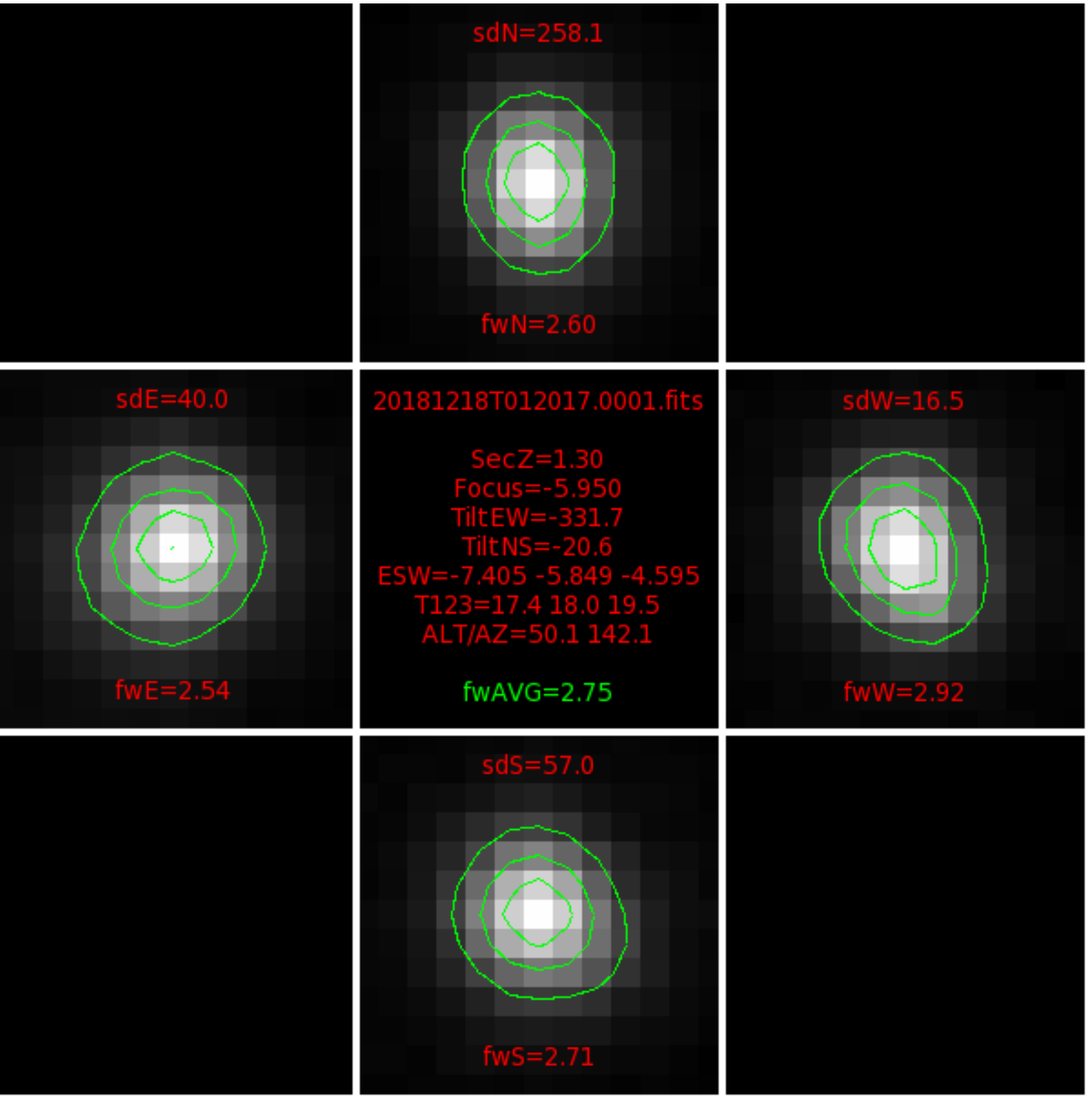
sdN=258.1
fwN=2.60
sdE=40.0
fwE=2.54
20181218T012017.0001.fits
SecZ=1.30
Focus=-5.950
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.405 -5.849 -4.595
T123=17.4 18.0 19.5
ALT/AZ=50.1 142.1
fwAVG=2.75
sdW=16.5
fwW=2.92
sdS=57.0
fwS=2.71
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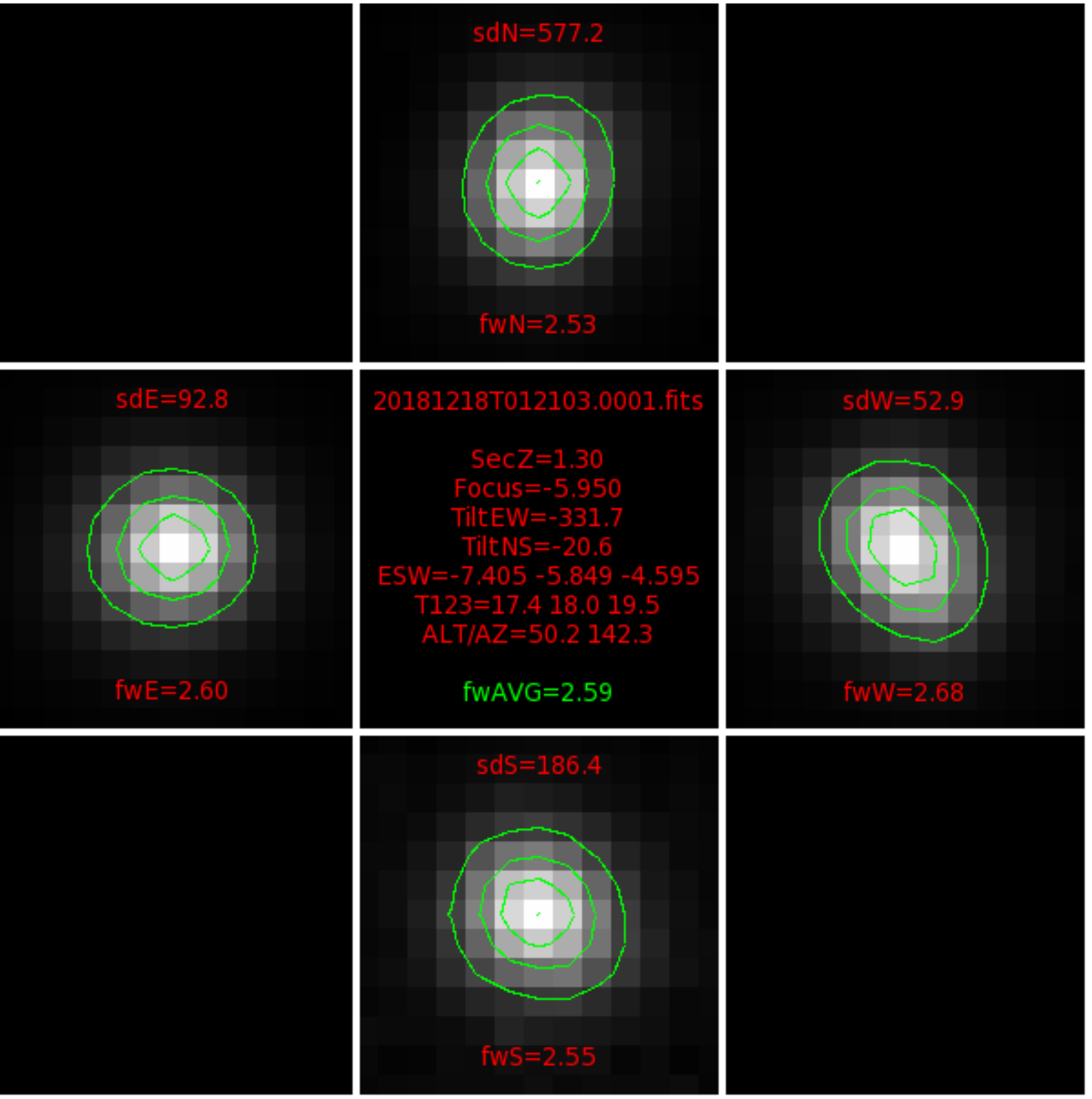
sdN=577.2
fwN=2.53
sdE=92.8
fwE=2.60
20181218T012103.0001.fits
SecZ=1.30
Focus=-5.950
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.405 -5.849 -4.595
T123=17.4 18.0 19.5
ALT/AZ=50.2 142.3
fwAVG=2.59
sdW=52.9
fwW=2.68
sdS=186.4
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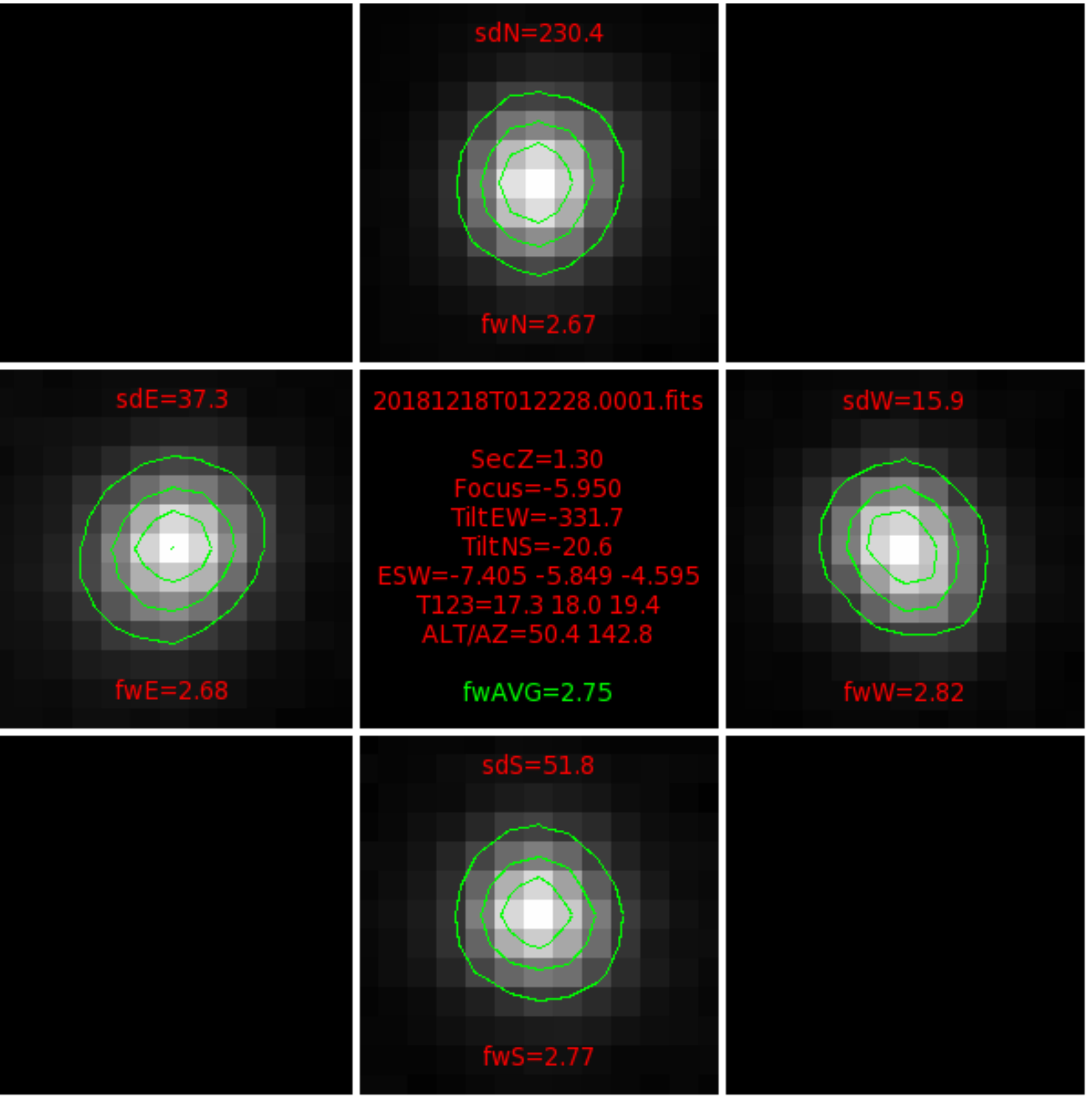
sdN=230.4
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sdE=37.3
fwE=2.68
20181218T012228.0001.fits
SecZ=1.30
Focus=-5.950
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.405 -5.849 -4.595
T123=17.3 18.0 19.4
ALT/AZ=50.4 142.8
fwAVG=2.75
sdW=15.9
fwW=2.82
sdS=51.8
fwS=2.77
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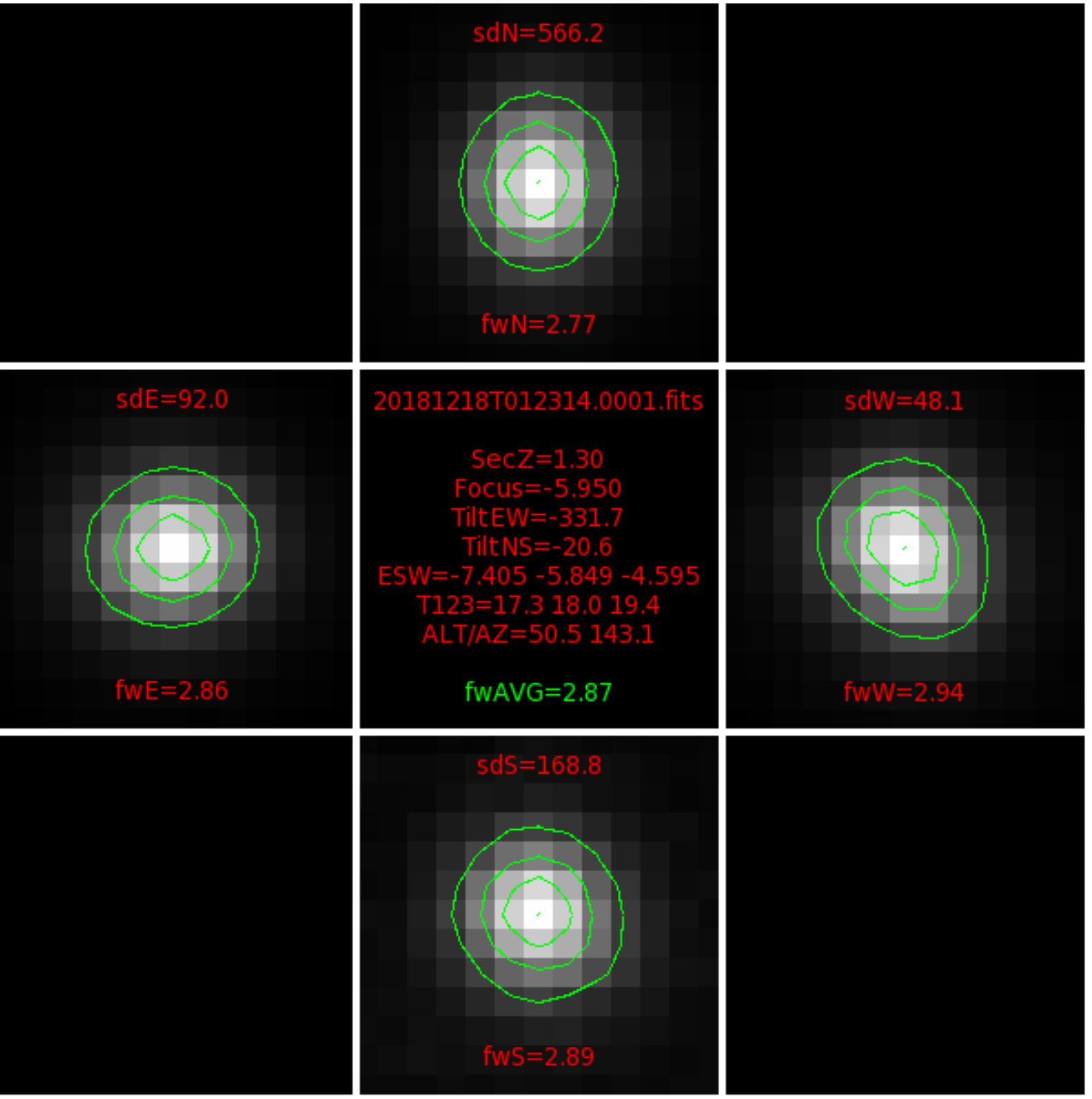
sdN=566.2
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sdE=92.0
fwE=2.86
20181218T012314.0001.fits
SecZ=1.30
Focus=-5.950
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.405 -5.849 -4.595
T123=17.3 18.0 19.4
ALT/AZ=50.5 143.1
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sdW=48.1
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sdS=168.8
fwS=2.89
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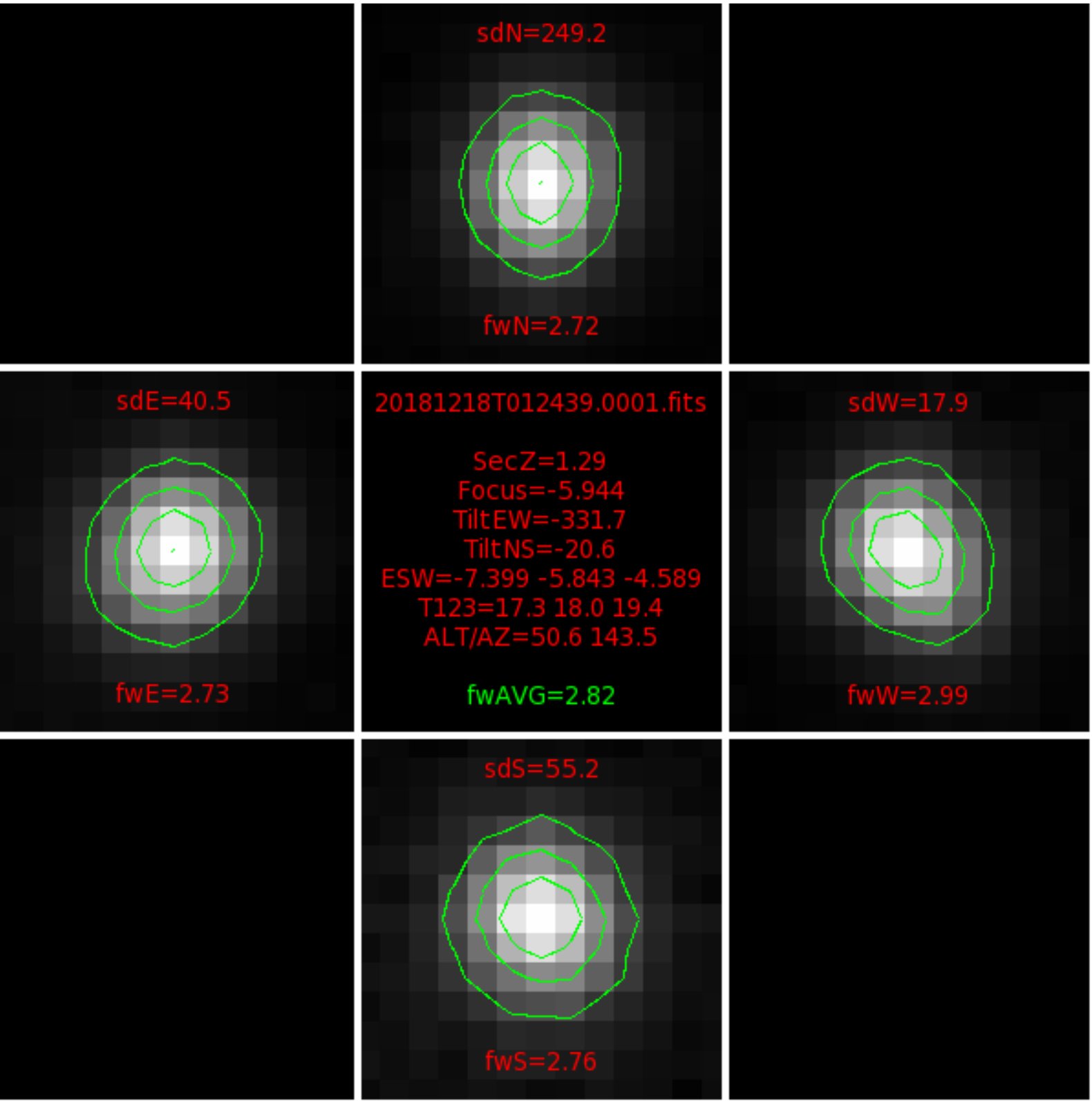
sdN=249.2
fwN=2.72
sdE=40.5
fwE=2.73
20181218T012439.0001.fits
SecZ=1.29
Focus=-5.944
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.399 -5.843 -4.589
T123=17.3 18.0 19.4
ALT/AZ=50.6 143.5
fwAVG=2.82
sdW=17.9
fwW=2.99
sdS=55.2
fwS=2.76
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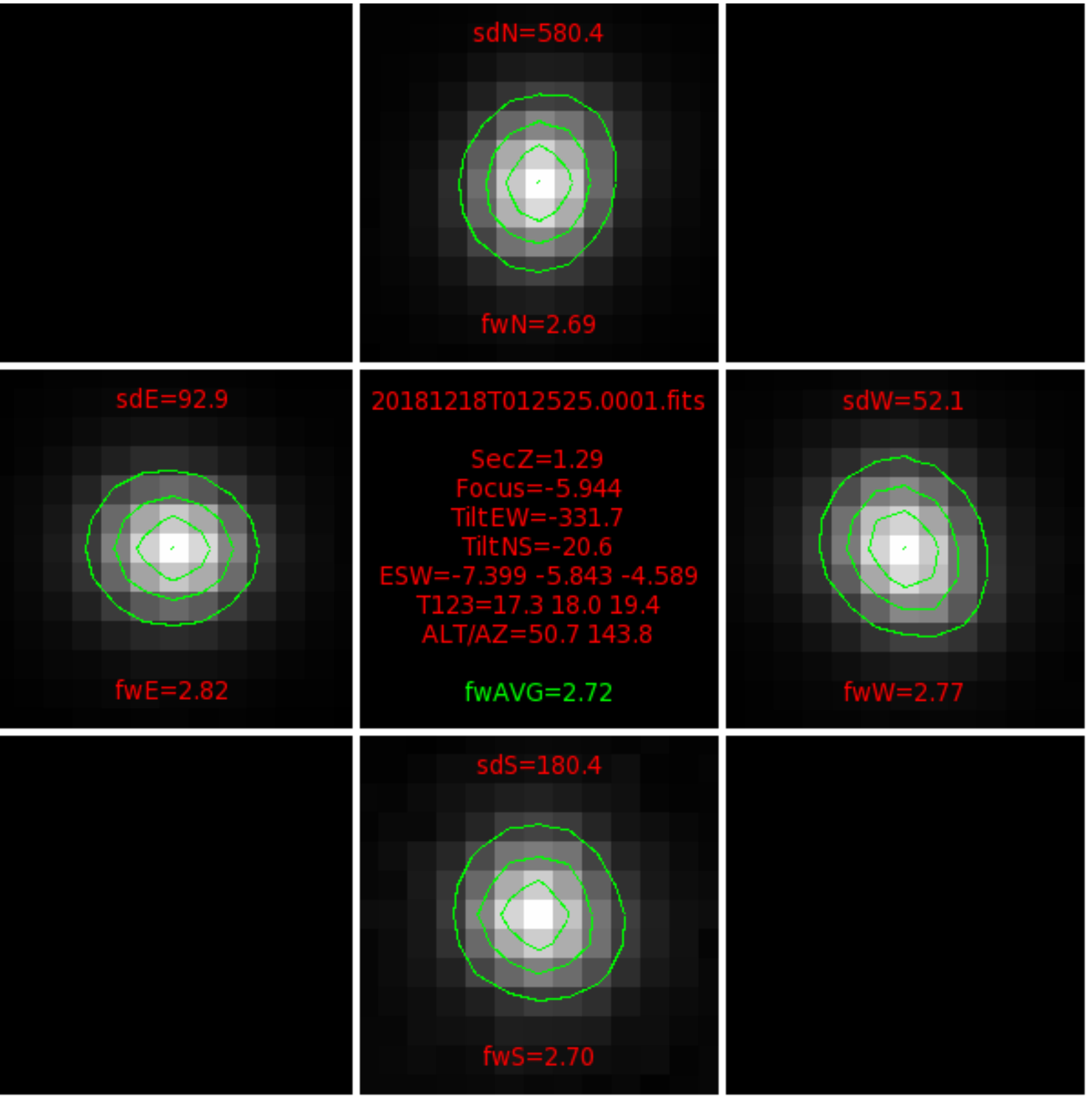
sdN=580.4
fwN=2.69
sdE=92.9
fwE=2.82
20181218T012525.0001.fits
SecZ=1.29
Focus=-5.944
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.399 -5.843 -4.589
T123=17.3 18.0 19.4
ALT/AZ=50.7 143.8
fwAVG=2.72
sdW=52.1
fwW=2.77
sdS=180.4
fwS=2.70
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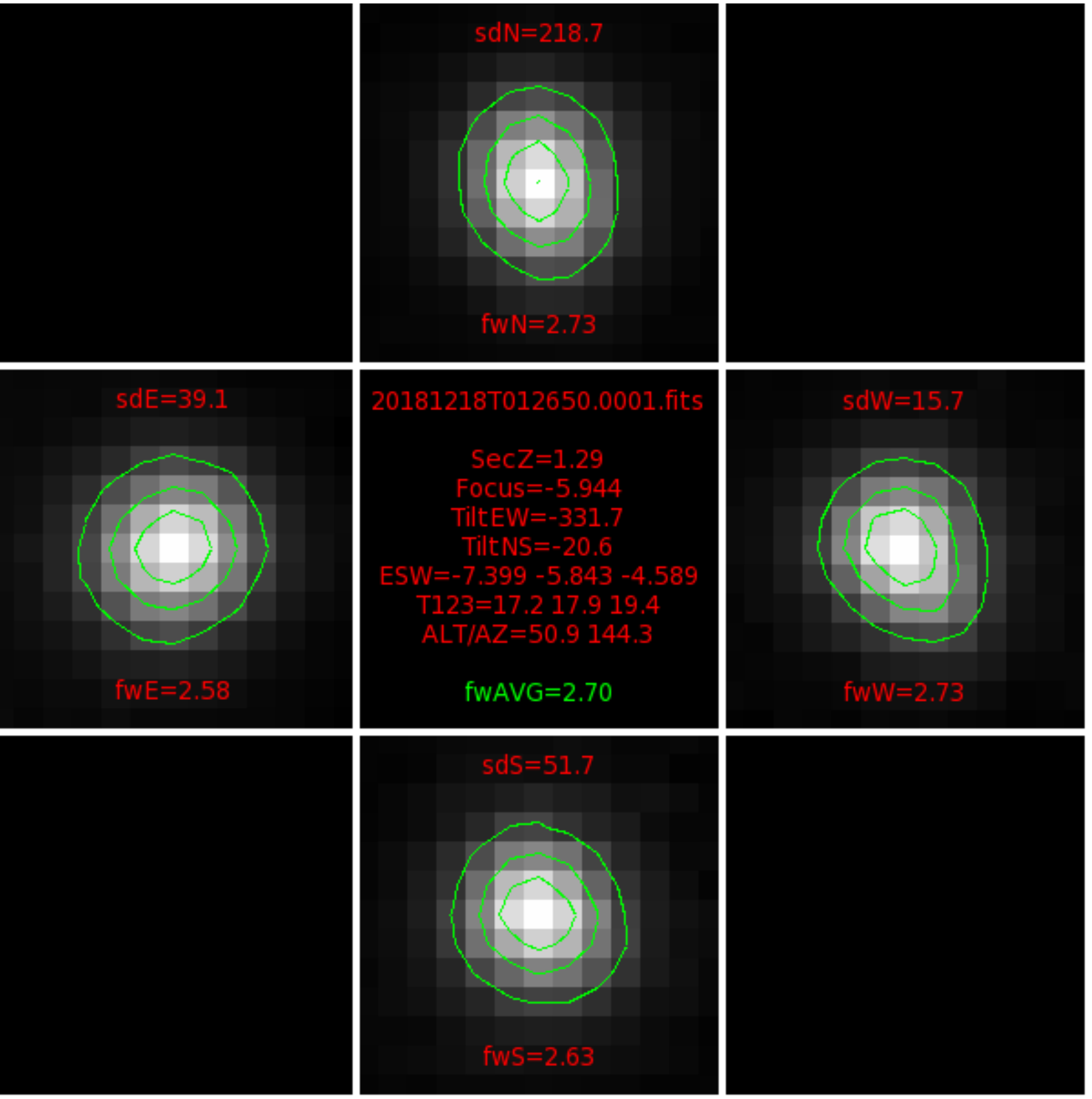
sdN=218.7
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sdE=39.1
fwE=2.58
20181218T012650.0001.fits
SecZ=1.29
Focus=-5.944
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.399 -5.843 -4.589
T123=17.2 17.9 19.4
ALT/AZ=50.9 144.3
fwAVG=2.70
sdW=15.7
fwW=2.73
sdS=51.7
fwS=2.63
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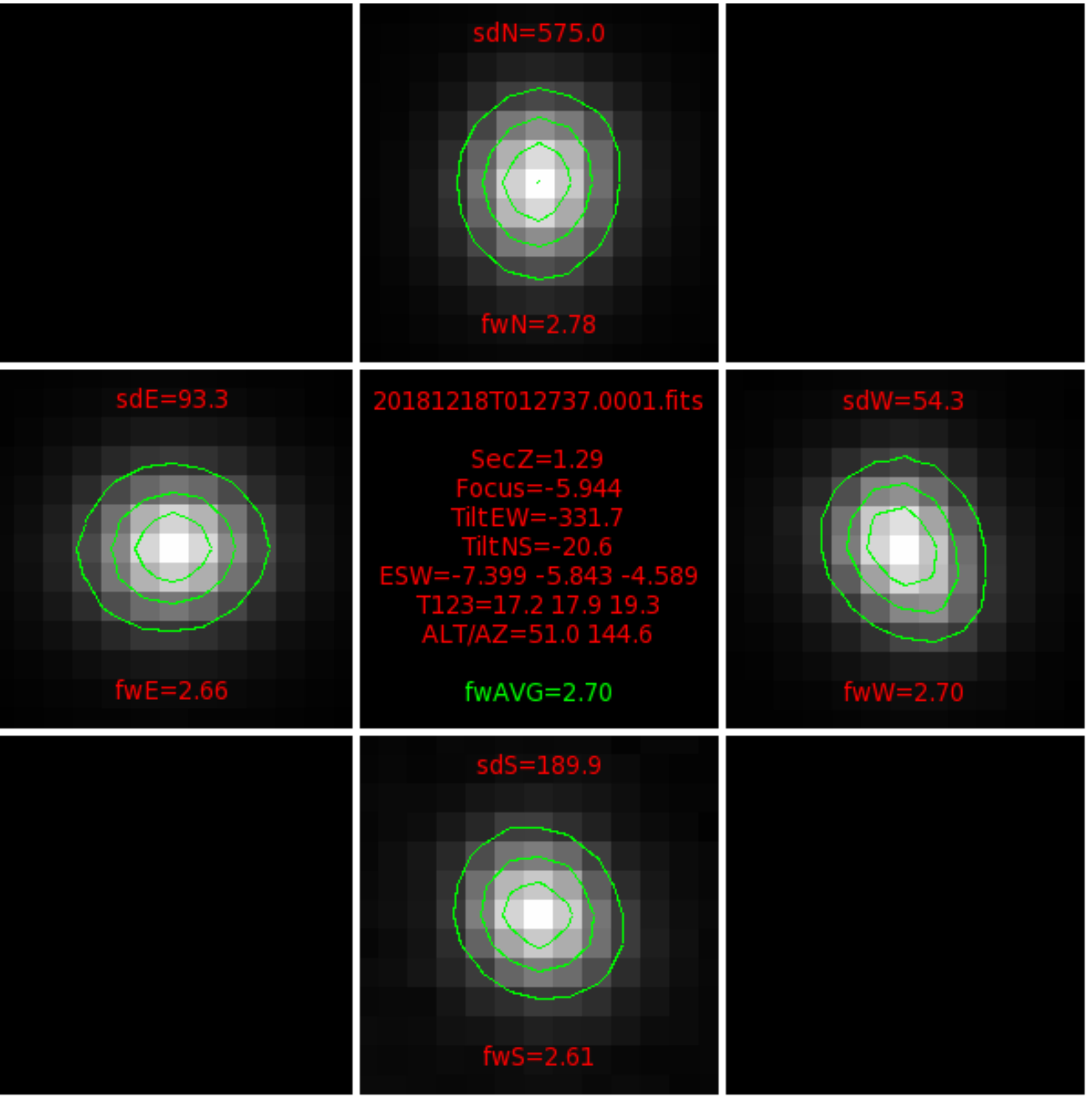
sdN=575.0
fwN=2.78
sdE=93.3
fwE=2.66
20181218T012737.0001.fits
SecZ=1.29
Focus=-5.944
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.399 -5.843 -4.589
T123=17.2 17.9 19.3
ALT/AZ=51.0 144.6
fwAVG=2.70
sdW=54.3
fwW=2.70
sdS=189.9
fwS=2.61
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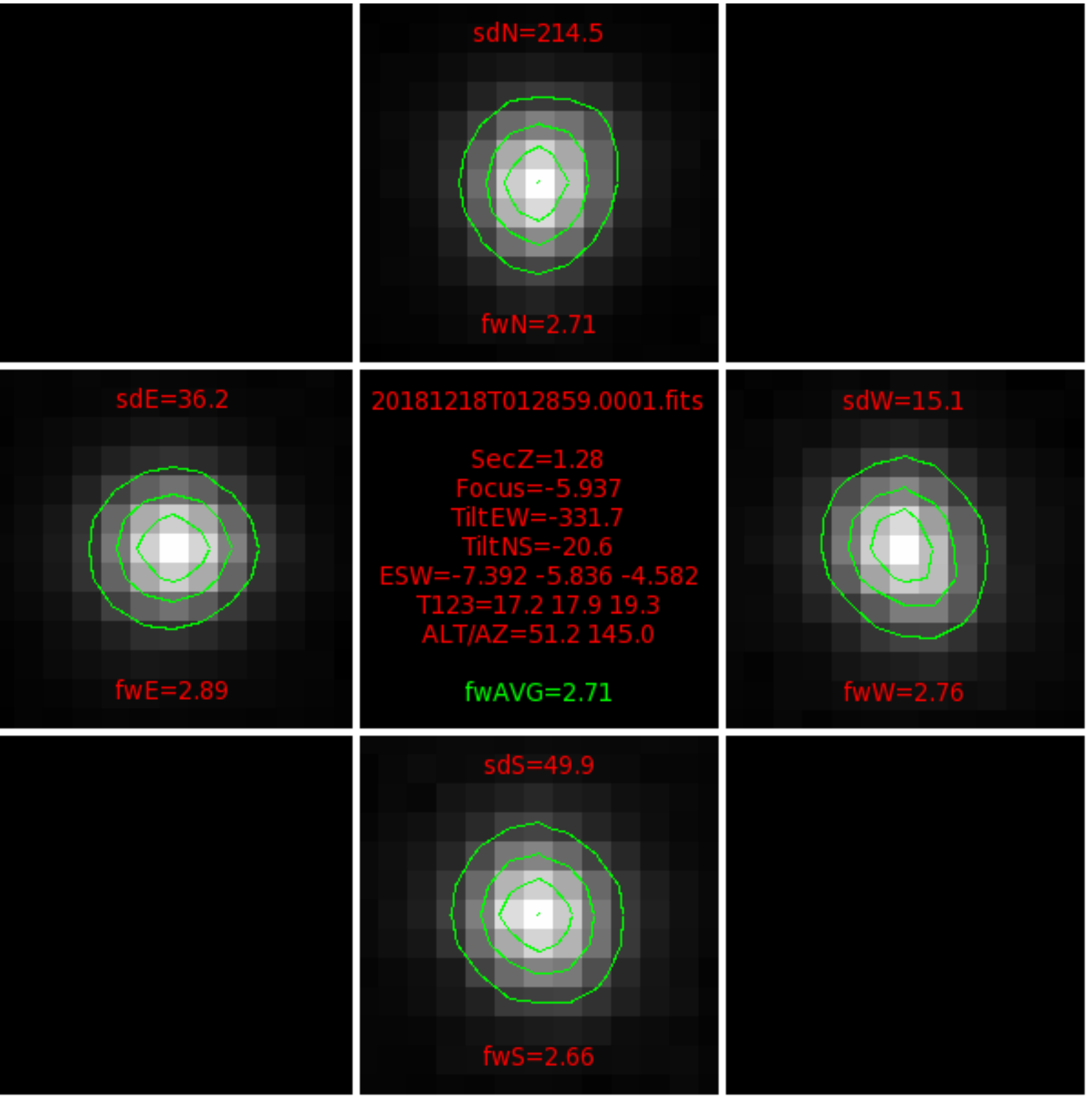
sdN=214.5
fwN=2.71
sdE=36.2
fwE=2.89
20181218T012859.0001.fits
SecZ=1.28
Focus=-5.937
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.392 -5.836 -4.582
T123=17.2 17.9 19.3
ALT/AZ=51.2 145.0
fwAVG=2.71
sdW=15.1
fwW=2.76
sdS=49.9
fwS=2.66
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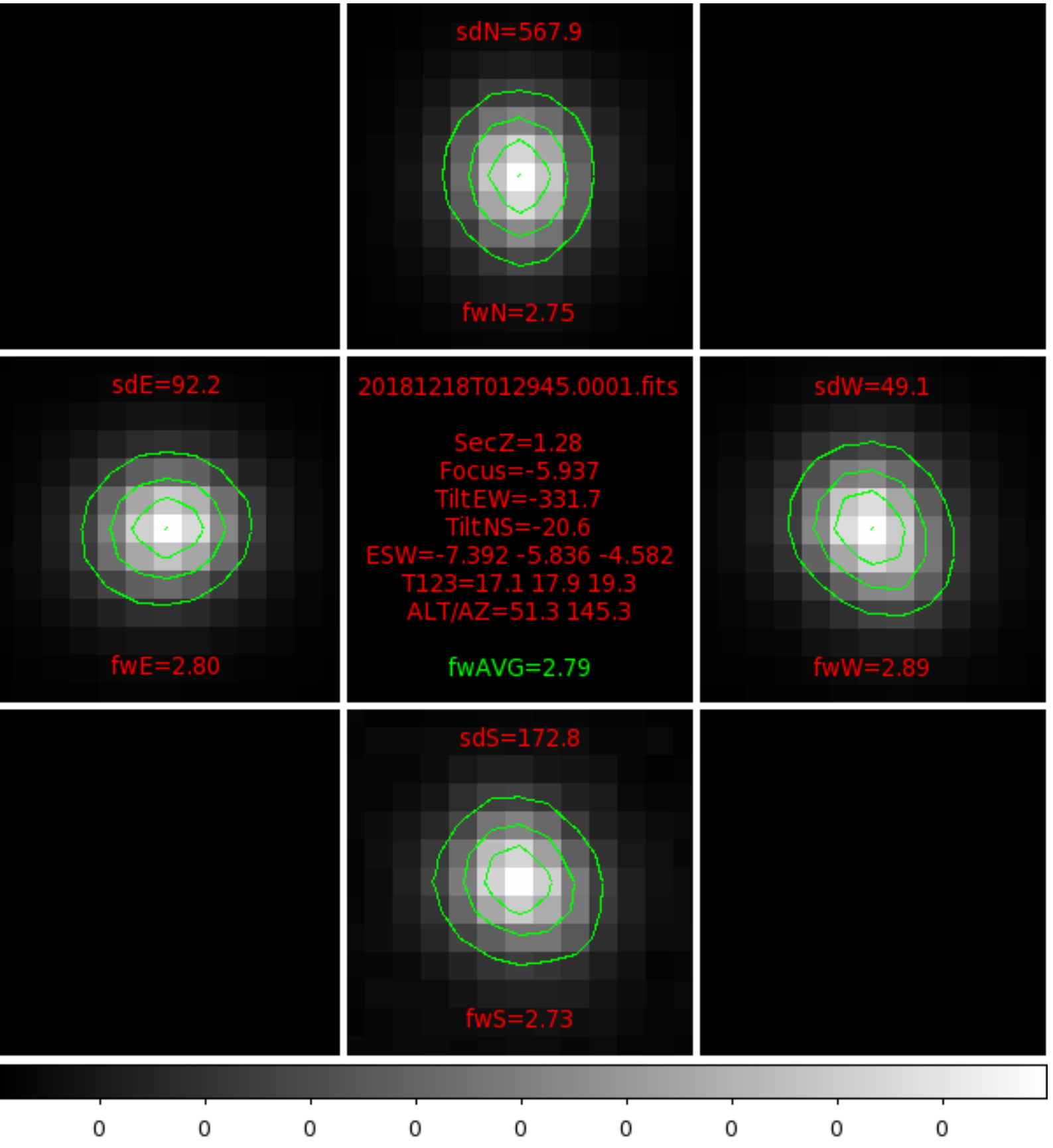
sdN=567.9
fwN=2.75
sdE=92.2
fwE=2.80
20181218T012945.0001.fits
SecZ=1.28
Focus=-5.937
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.392 -5.836 -4.582
T123=17.1 17.9 19.3
ALT/AZ=51.3 145.3
fwAVG=2.79
sdW=49.1
fwW=2.89
sdS=172.8
fwS=2.73
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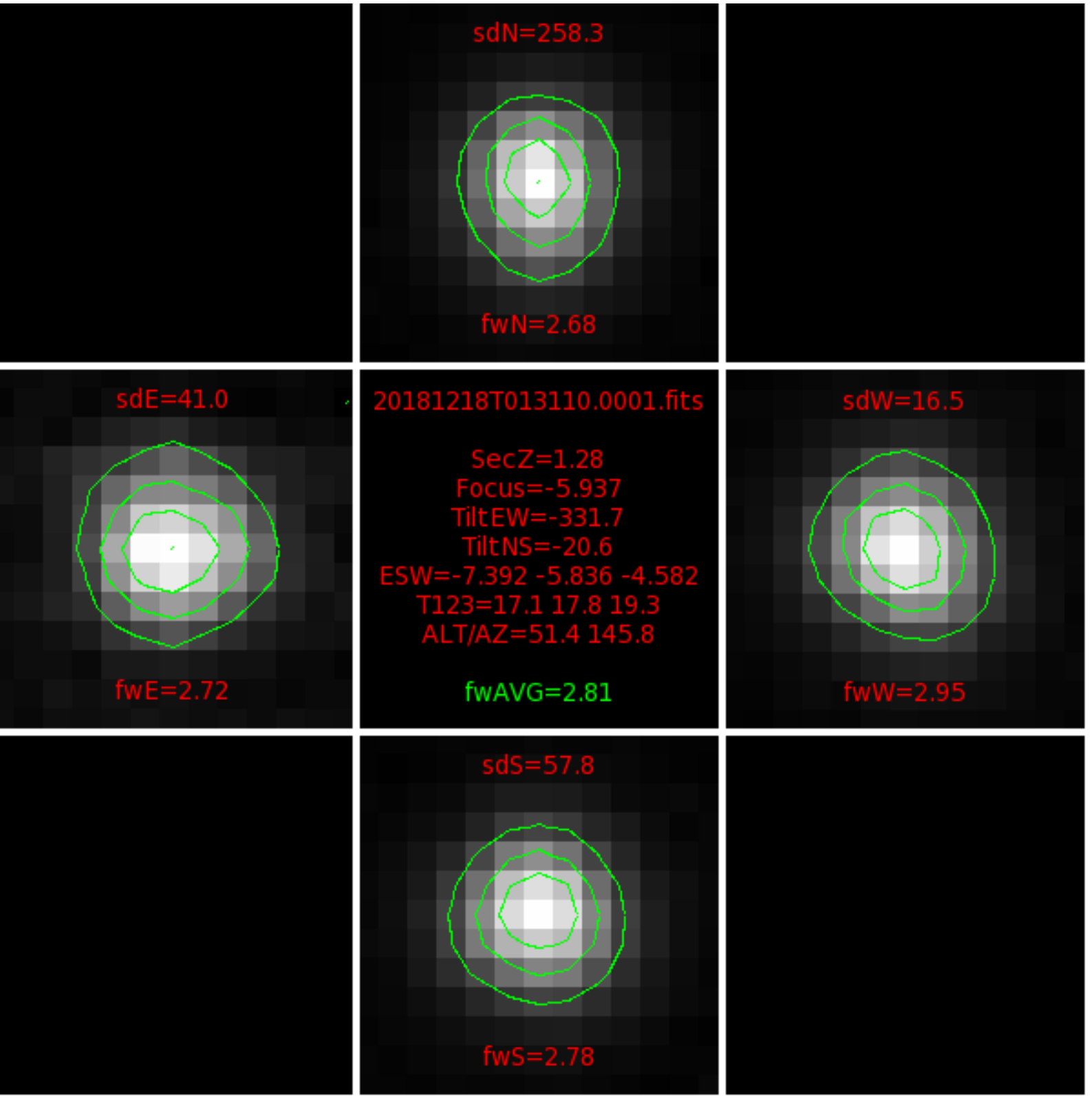
sdN=258.3
fwN=2.68
sdE=41.0
fwE=2.72
20181218T013110.0001.fits
SecZ=1.28
Focus=-5.937
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.392 -5.836 -4.582
T123=17.1 17.8 19.3
ALT/AZ=51.4 145.8
fwAVG=2.81
sdW=16.5
fwW=2.95
sdS=57.8
fwS=2.78
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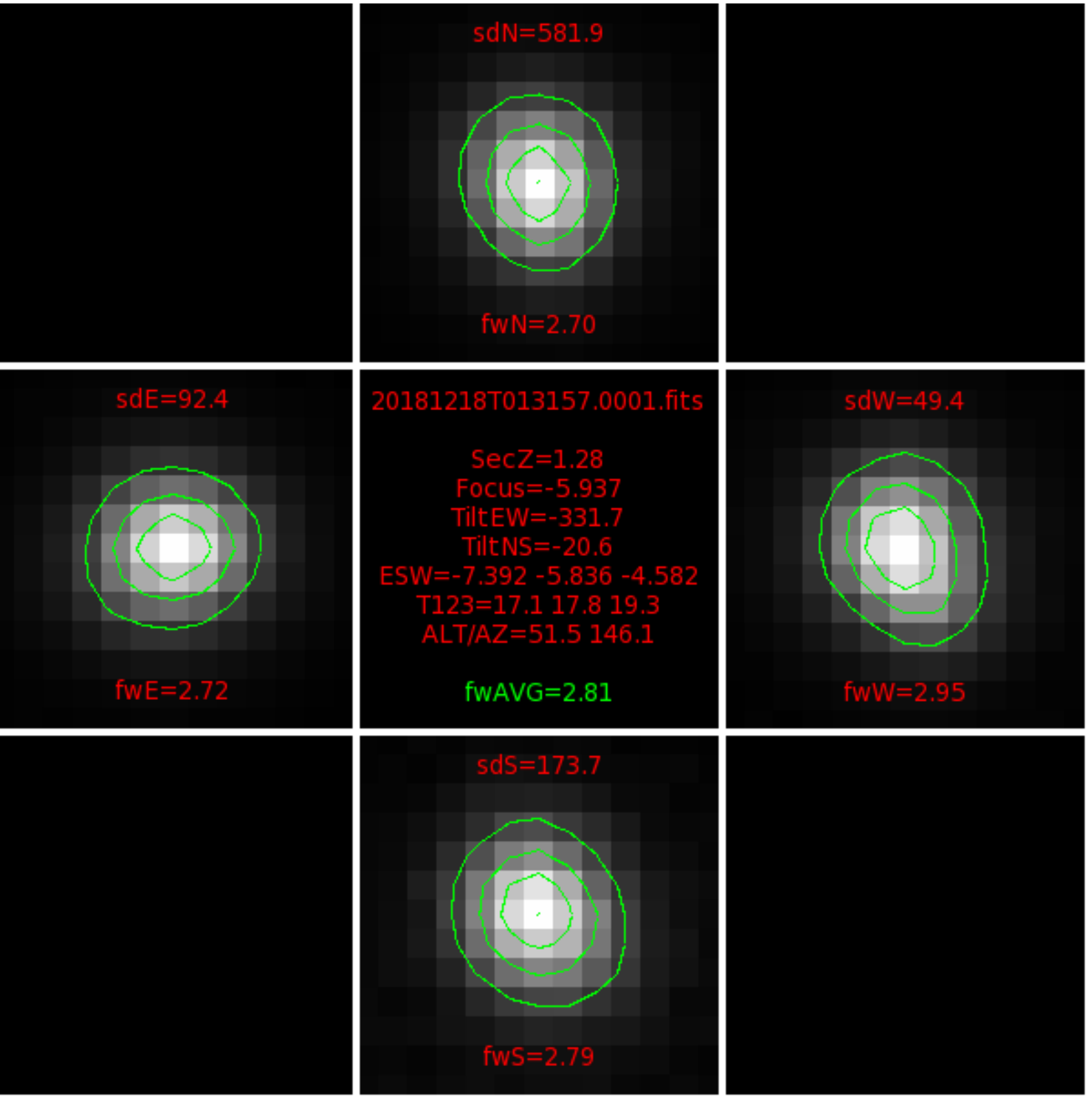
sdN=581.9
fwN=2.70
sdE=92.4
fwE=2.72
20181218T013157.0001.fits
SecZ=1.28
Focus=-5.937
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.392 -5.836 -4.582
T123=17.1 17.8 19.3
ALT/AZ=51.5 146.1
fwAVG=2.81
sdW=49.4
fwW=2.95
sdS=173.7
fwS=2.79
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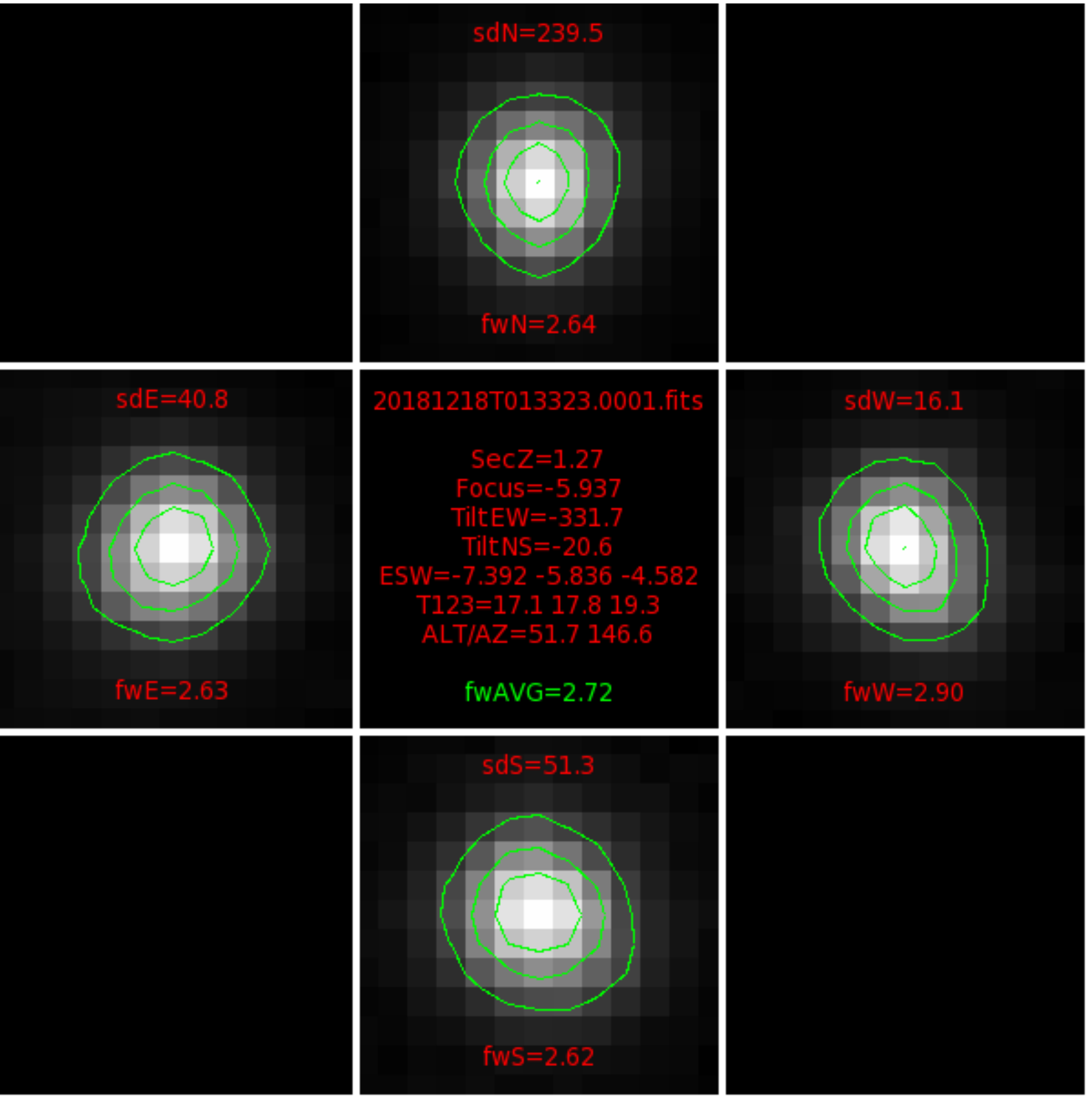
sdN=239.5
fwN=2.64
sdE=40.8
fwE=2.63
20181218T013323.0001.fits
SecZ=1.27
Focus=-5.937
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.392 -5.836 -4.582
T123=17.1 17.8 19.3
ALT/AZ=51.7 146.6
fwAVG=2.72
sdW=16.1
fwW=2.90
sdS=51.3
fwS=2.62
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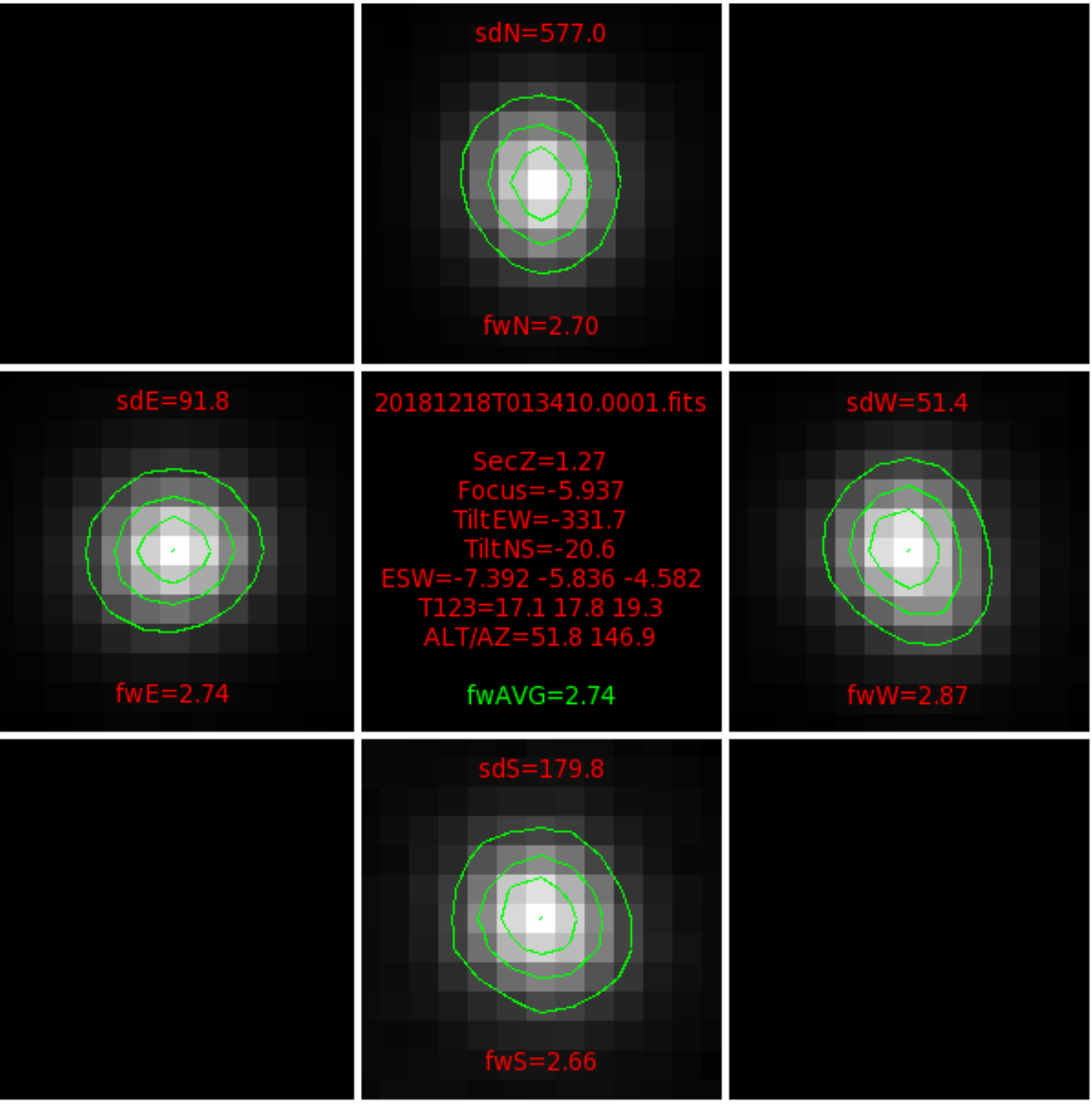
sdN=577.0
fwN=2.70
sdE=91.8
fwE=2.74
20181218T013410.0001.fits
SecZ=1.27
Focus=-5.937
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.392 -5.836 -4.582
T123=17.1 17.8 19.3
ALT/AZ=51.8 146.9
fwAVG=2.74
sdW=51.4
fwW=2.87
sdS=179.8
fwS=2.66
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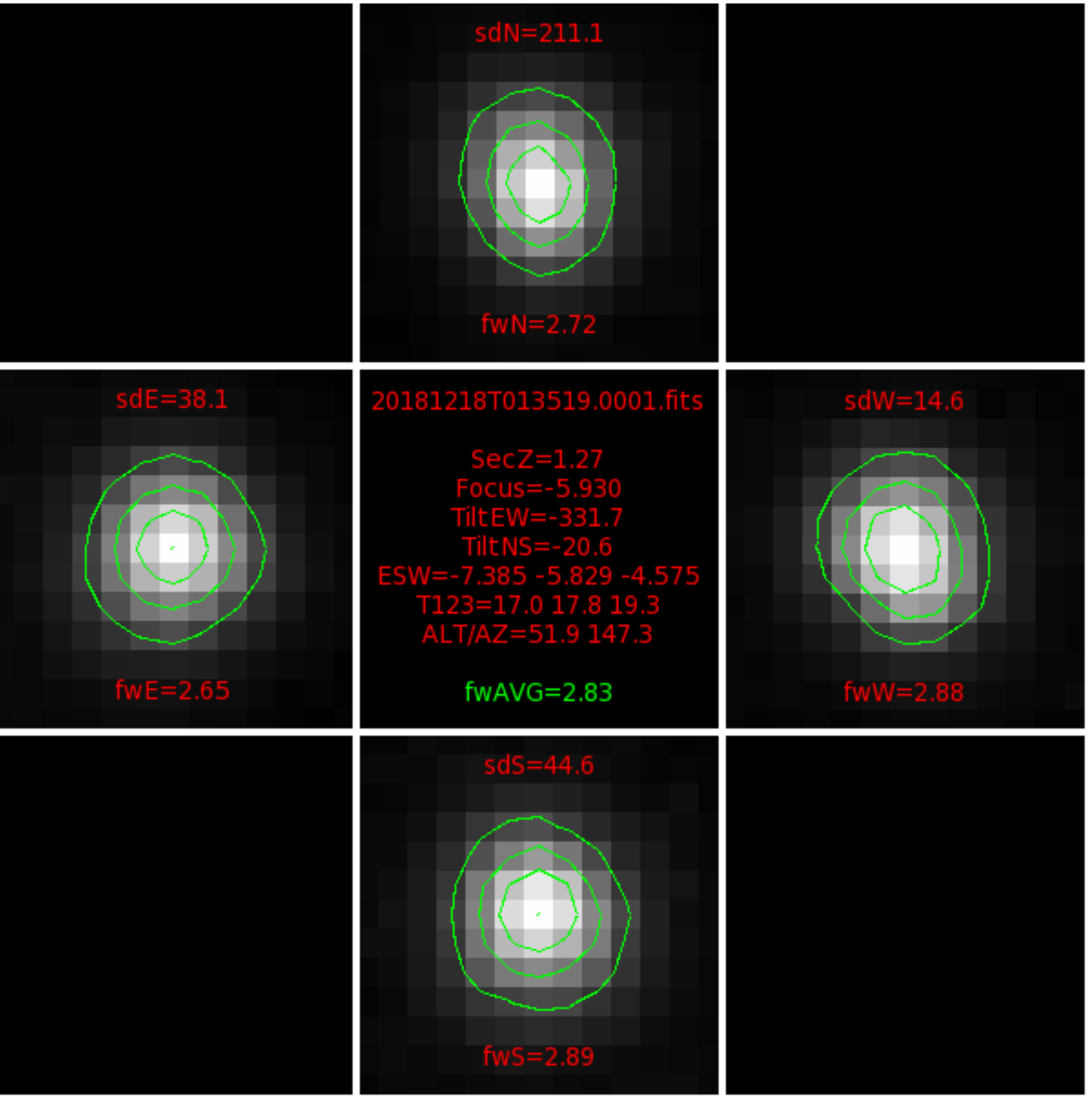
sdN=211.1
fwN=2.72
sdE=38.1
fwE=2.65
20181218T013519.0001.fits
SecZ=1.27
Focus=-5.930
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.385 -5.829 -4.575
T123=17.0 17.8 19.3
ALT/AZ=51.9 147.3
fwAVG=2.83
sdW=14.6
fwW=2.88
sdS=44.6
fwS=2.89
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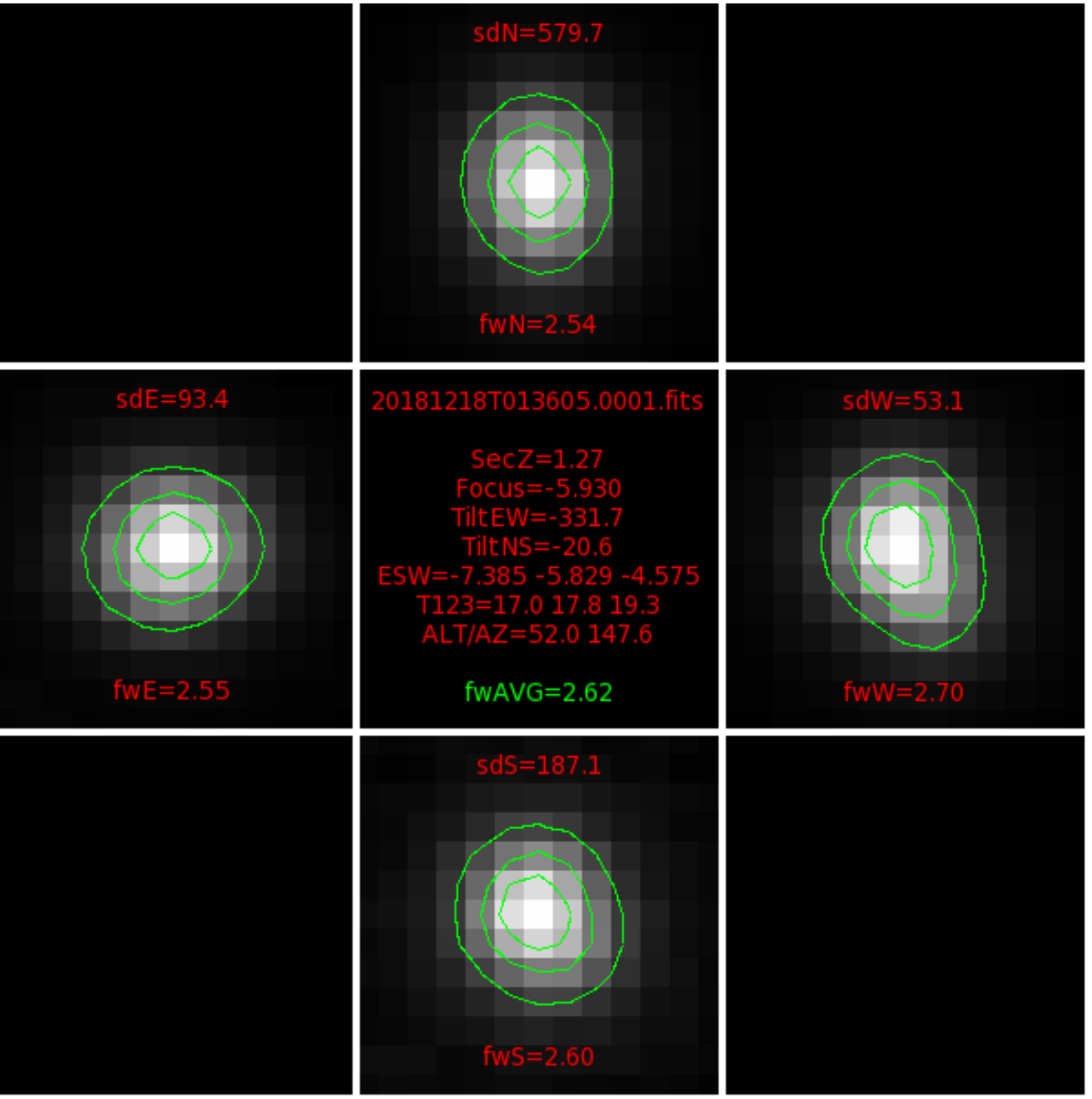
sdN=579.7
fwN=2.54
sdE=93.4
fwE=2.55
20181218T013605.0001.fits
SecZ=1.27
Focus=-5.930
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.385 -5.829 -4.575
T123=17.0 17.8 19.3
ALT/AZ=52.0 147.6
fwAVG=2.62
sdW=53.1
fwW=2.70
sdS=187.1
fwS=2.60
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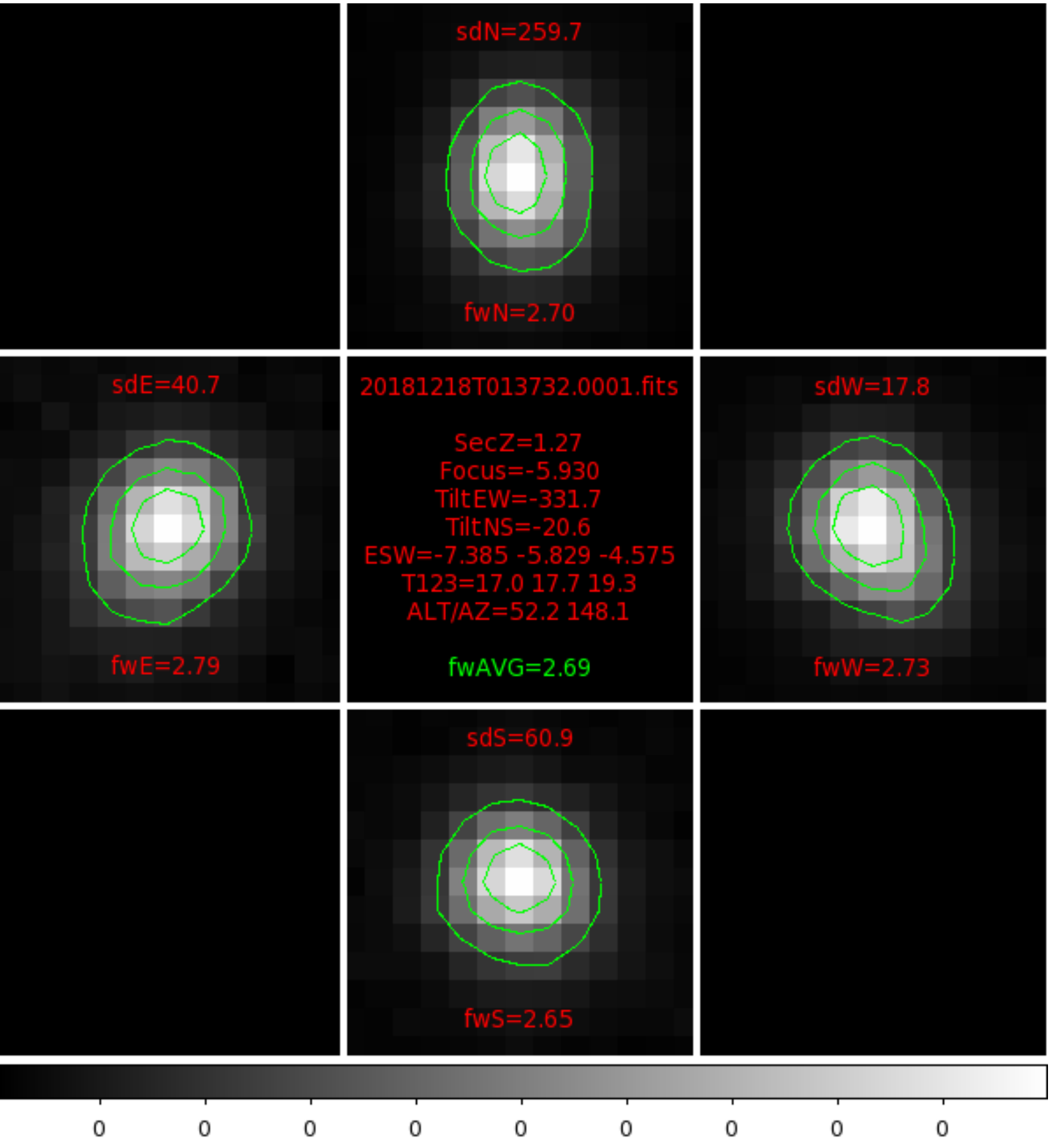
sdN=259.7
fwN=2.70
sdE=40.7
fwE=2.79
20181218T013732.0001.fits
SecZ=1.27
Focus=-5.930
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.385 -5.829 -4.575
T123=17.0 17.7 19.3
ALT/AZ=52.2 148.1
fwAVG=2.69
sdW=17.8
fwW=2.73
sdS=60.9
fwS=2.65
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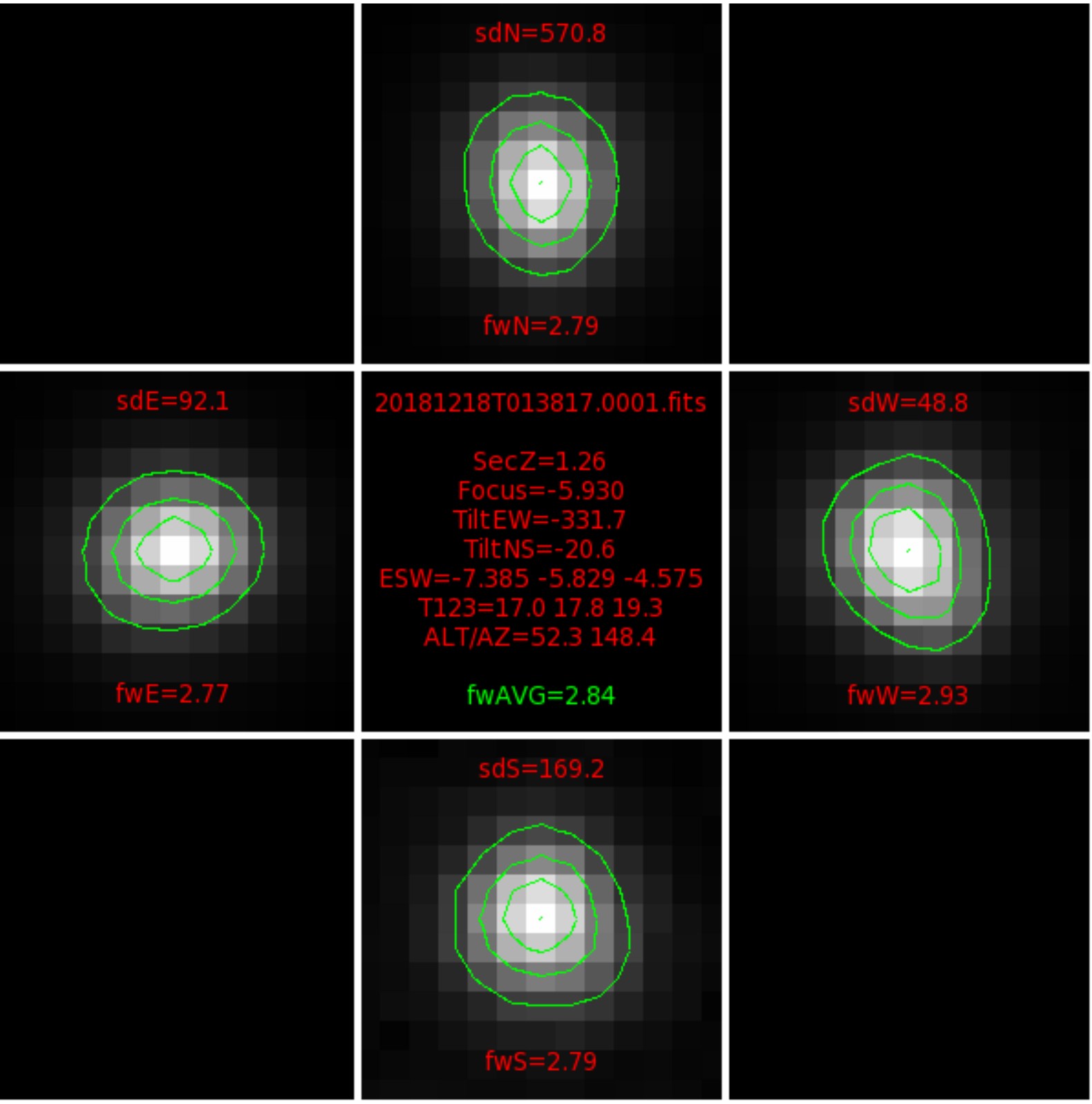
sdN=570.8
fwN=2.79
sdE=92.1
fwE=2.77
20181218T013817.0001.fits
SecZ=1.26
Focus=-5.930
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.385 -5.829 -4.575
T123=17.0 17.8 19.3
ALT/AZ=52.3 148.4
fwAVG=2.84
sdW=48.8
fwW=2.93
sdS=169.2
fwS=2.79
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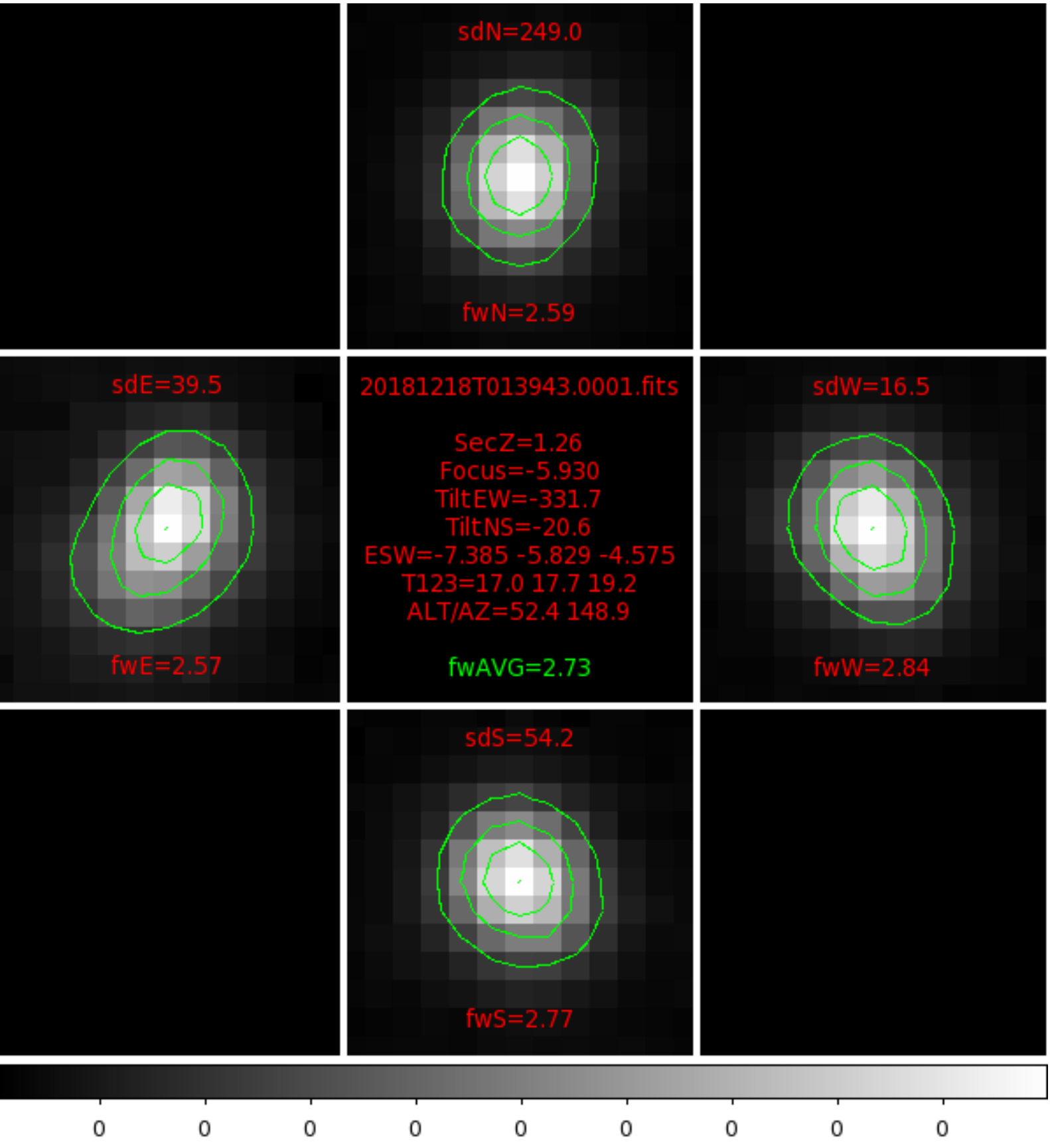
sdN=249.0
fwN=2.59
sdE=39.5
fwE=2.57
20181218T013943.0001.fits
SecZ=1.26
Focus=-5.930
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.385 -5.829 -4.575
T123=17.0 17.7 19.2
ALT/AZ=52.4 148.9
fwAVG=2.73
sdW=16.5
fwW=2.84
sdS=54.2
fwS=2.77
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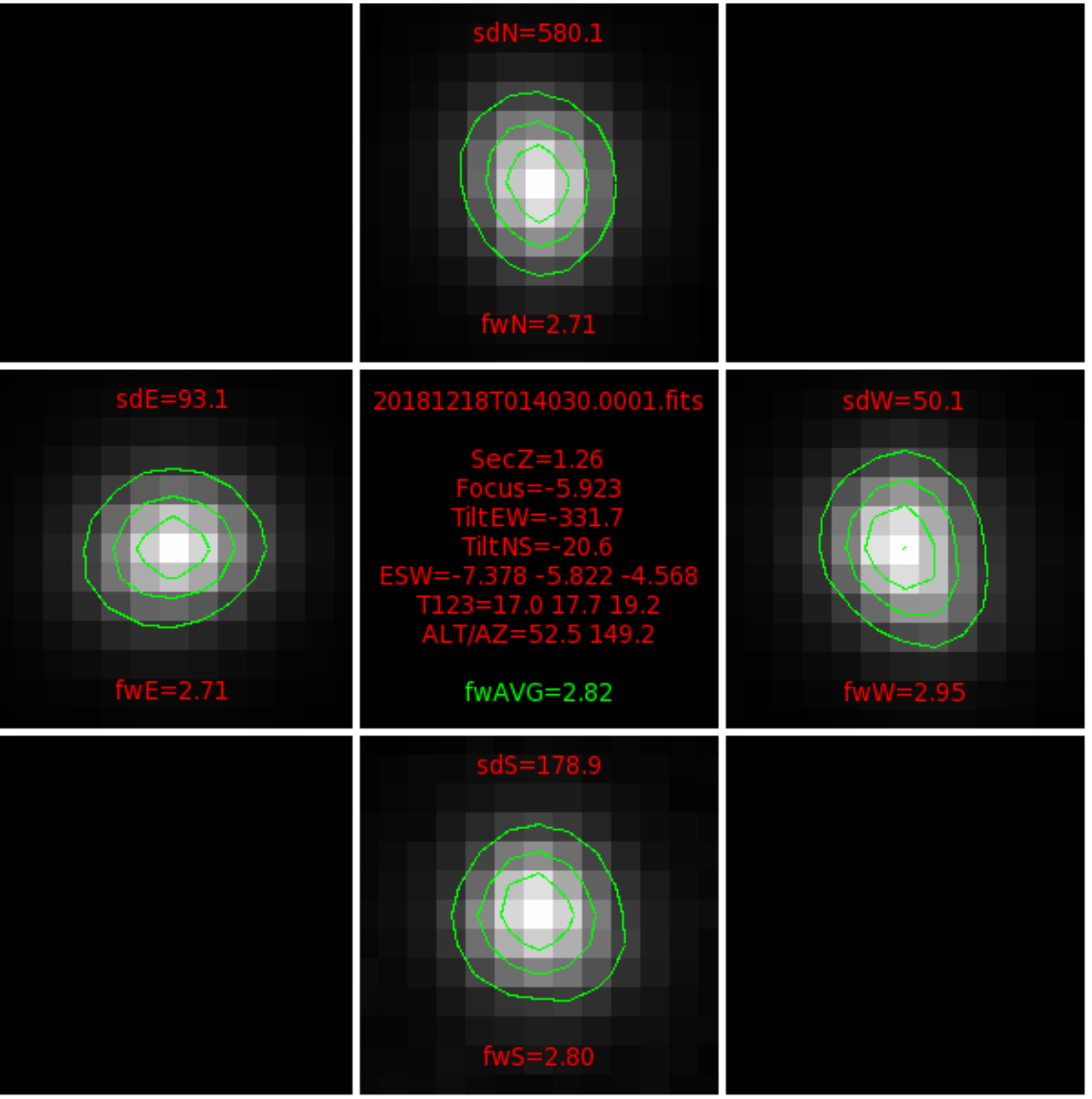
sdN=580.1
fwN=2.71
sdE=93.1
fwE=2.71
20181218T014030.0001.fits
SecZ=1.26
Focus=-5.923
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.378 -5.822 -4.568
T123=17.0 17.7 19.2
ALT/AZ=52.5 149.2
fwAVG=2.82
sdW=50.1
fwW=2.95
sdS=178.9
fwS=2.80
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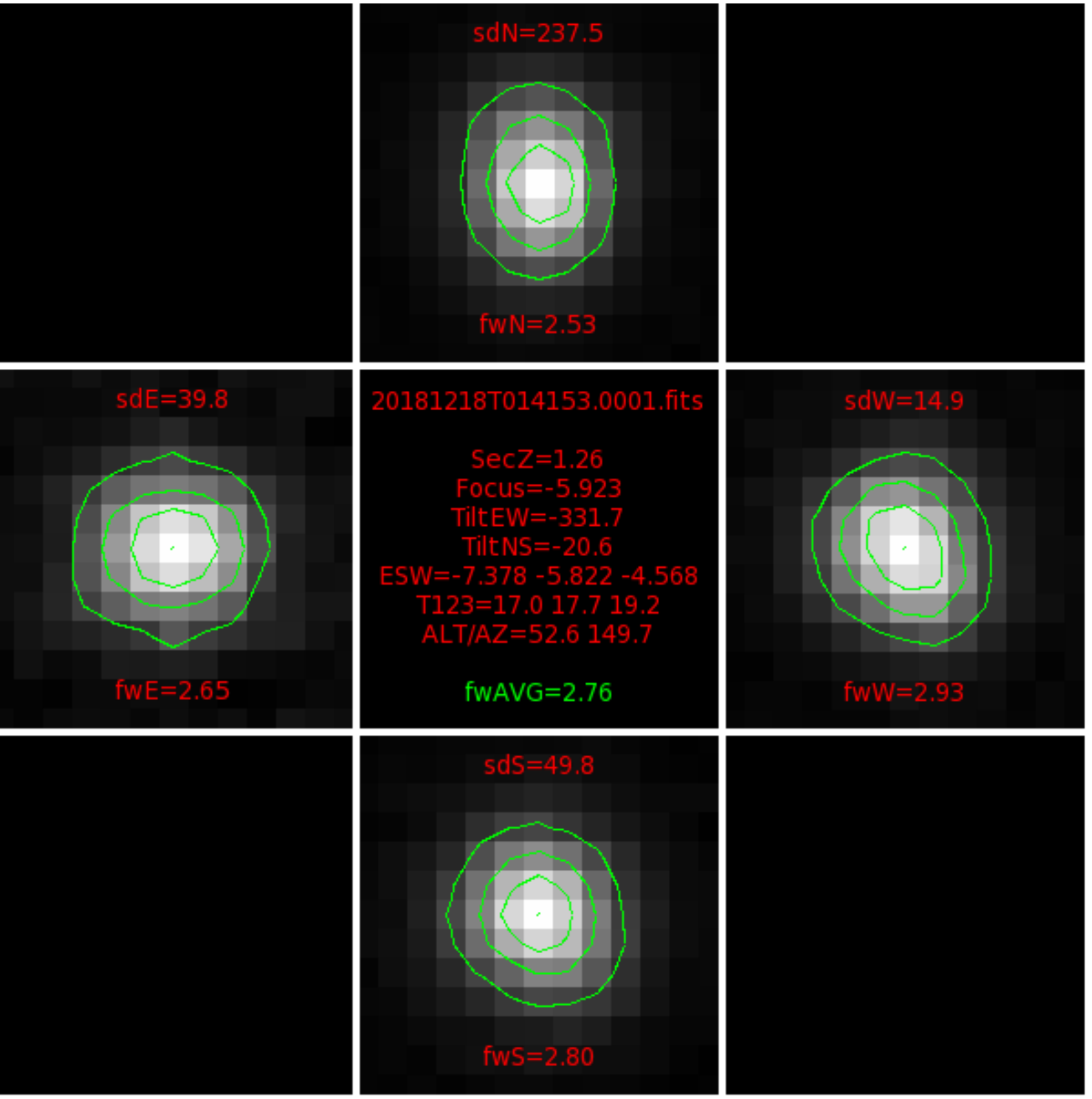
sdN=237.5
fwN=2.53
sdE=39.8
fwE=2.65
20181218T014153.0001.fits
SecZ=1.26
Focus=-5.923
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.378 -5.822 -4.568
T123=17.0 17.7 19.2
ALT/AZ=52.6 149.7
fwAVG=2.76
sdW=14.9
fwW=2.93
sdS=49.8
fwS=2.80
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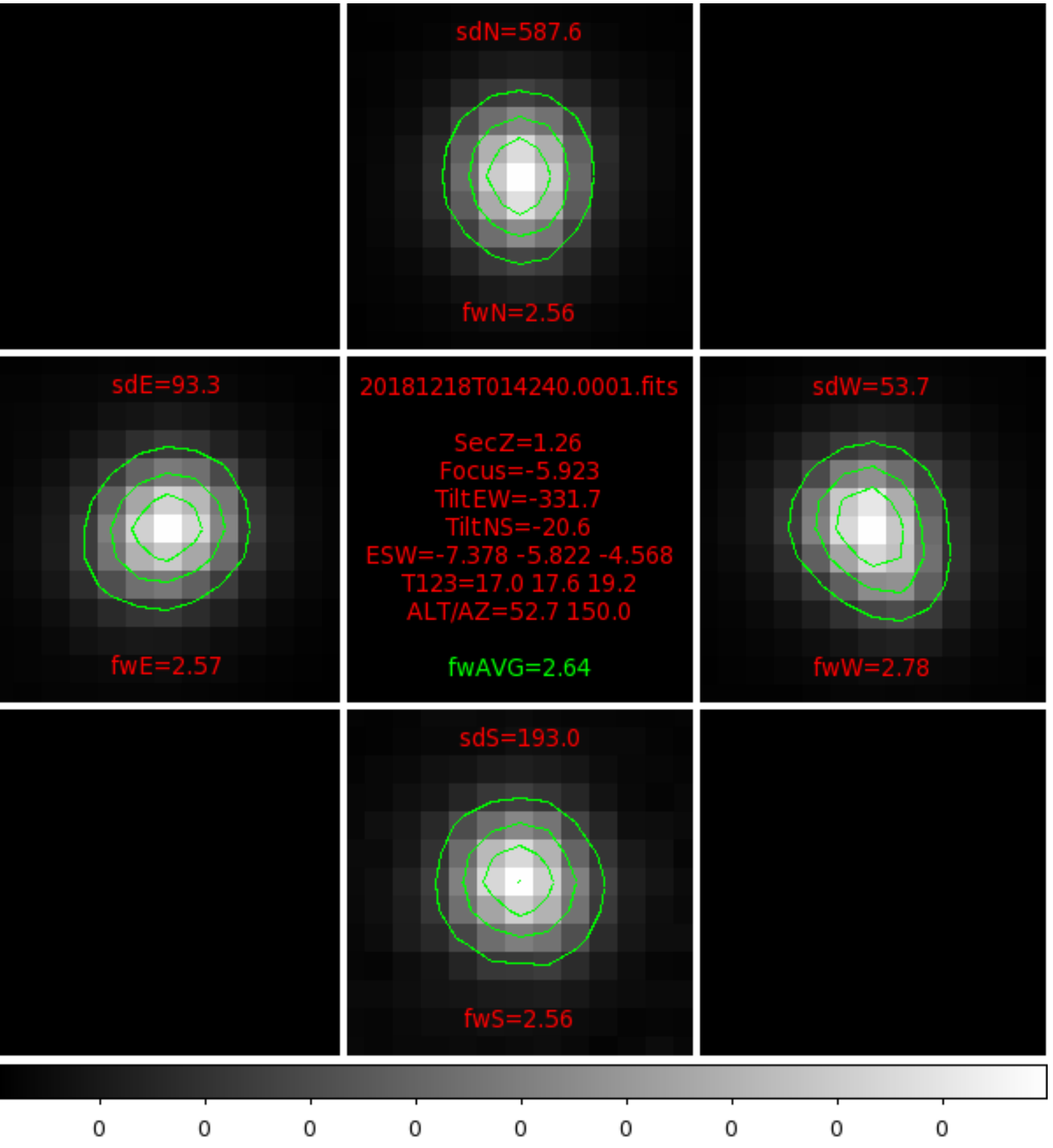
sdN=587.6
fwN=2.56
sdE=93.3
fwE=2.57
20181218T014240.0001.fits
SecZ=1.26
Focus=-5.923
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.378 -5.822 -4.568
T123=17.0 17.6 19.2
ALT/AZ=52.7 150.0
fwAVG=2.64
sdW=53.7
fwW=2.78
sdS=193.0
fwS=2.56
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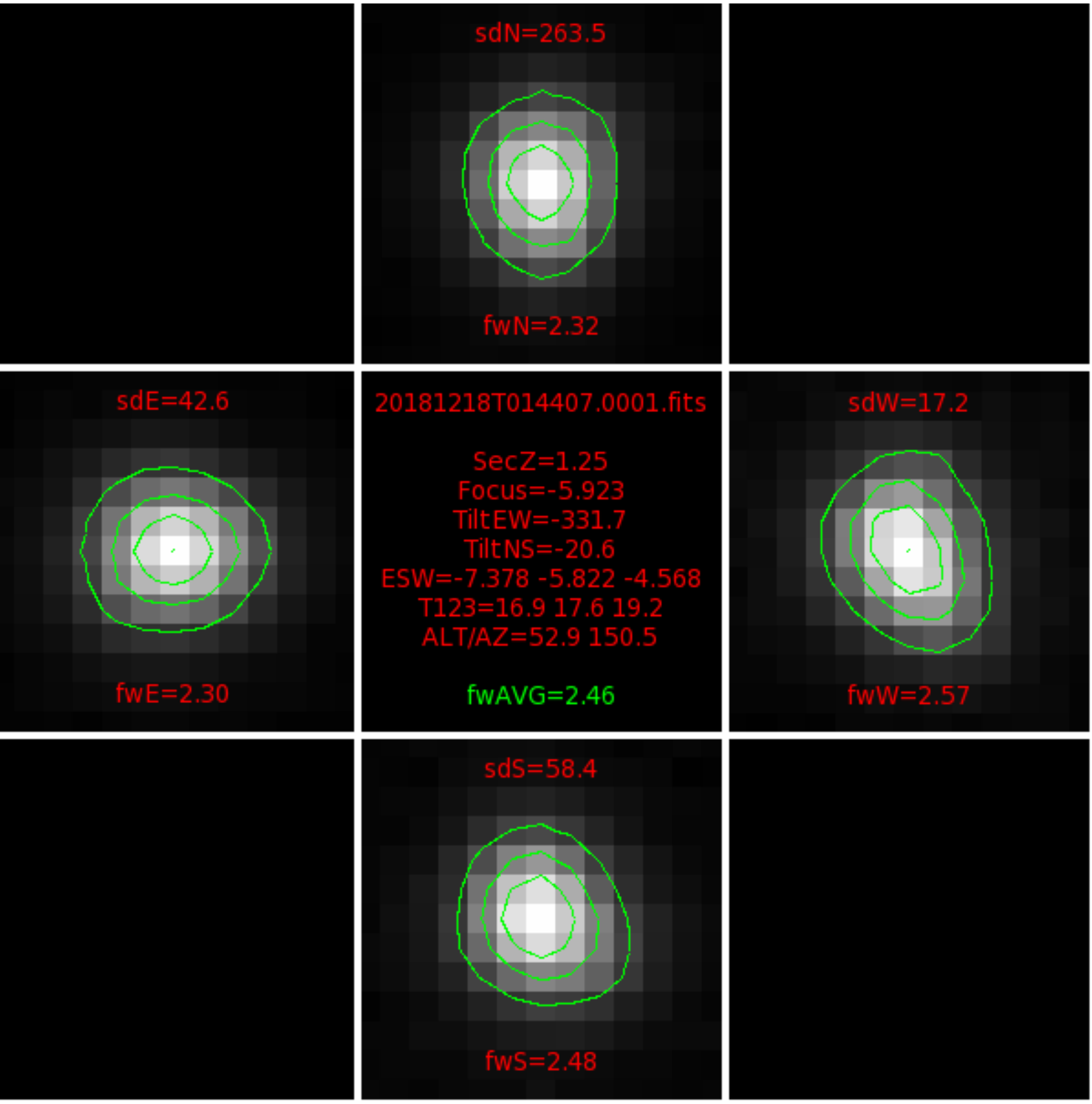
sdN=263.5
fwN=2.32
sdE=42.6
fwE=2.30
20181218T014407.0001.fits
SecZ=1.25
Focus=-5.923
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.378 -5.822 -4.568
T123=16.9 17.6 19.2
ALT/AZ=52.9 150.5
fwAVG=2.46
sdW=17.2
fwW=2.57
sdS=58.4
fwS=2.48
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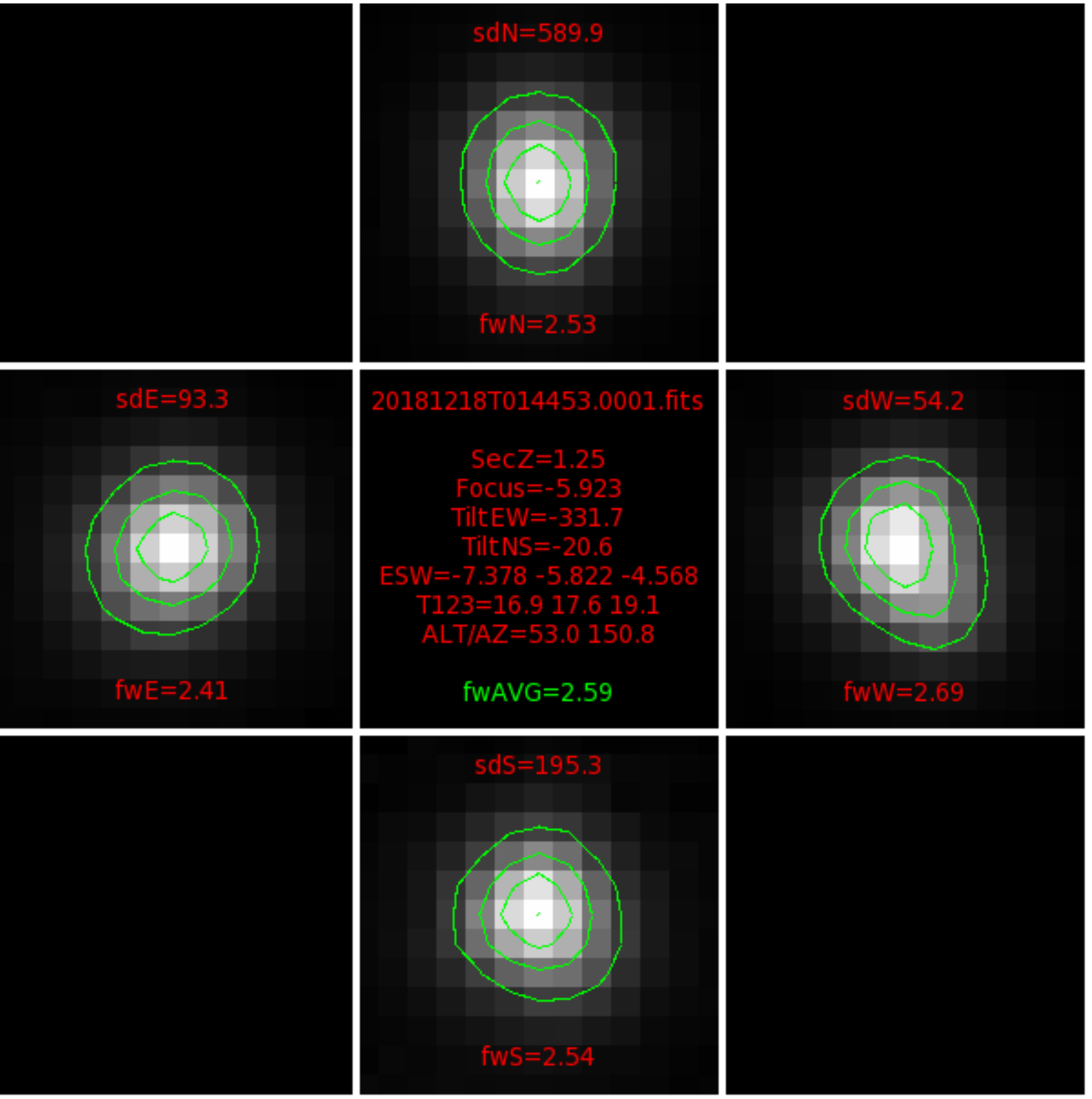
sdN=589.9
fwN=2.53
sdE=93.3
fwE=2.41
20181218T014453.0001.fits
SecZ=1.25
Focus=-5.923
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.378 -5.822 -4.568
T123=16.9 17.6 19.1
ALT/AZ=53.0 150.8
fwAVG=2.59
sdW=54.2
fwW=2.69
sdS=195.3
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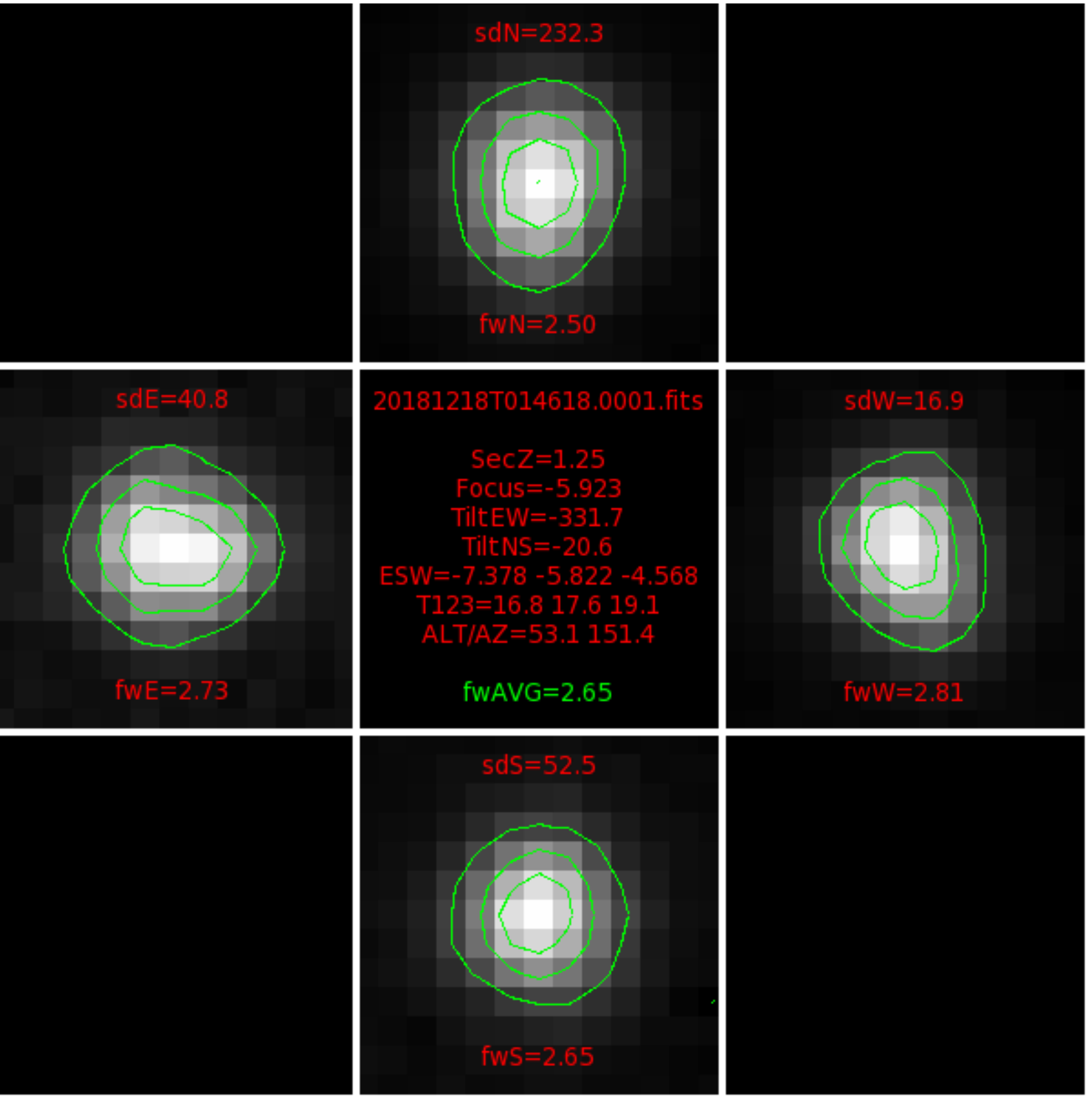
sdN=232.3
fwN=2.50
sdE=40.8
fwE=2.73
20181218T014618.0001.fits
SecZ=1.25
Focus=-5.923
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.378 -5.822 -4.568
T123=16.8 17.6 19.1
ALT/AZ=53.1 151.4
fwAVG=2.65
sdW=16.9
fwW=2.81
sdS=52.5
fwS=2.65
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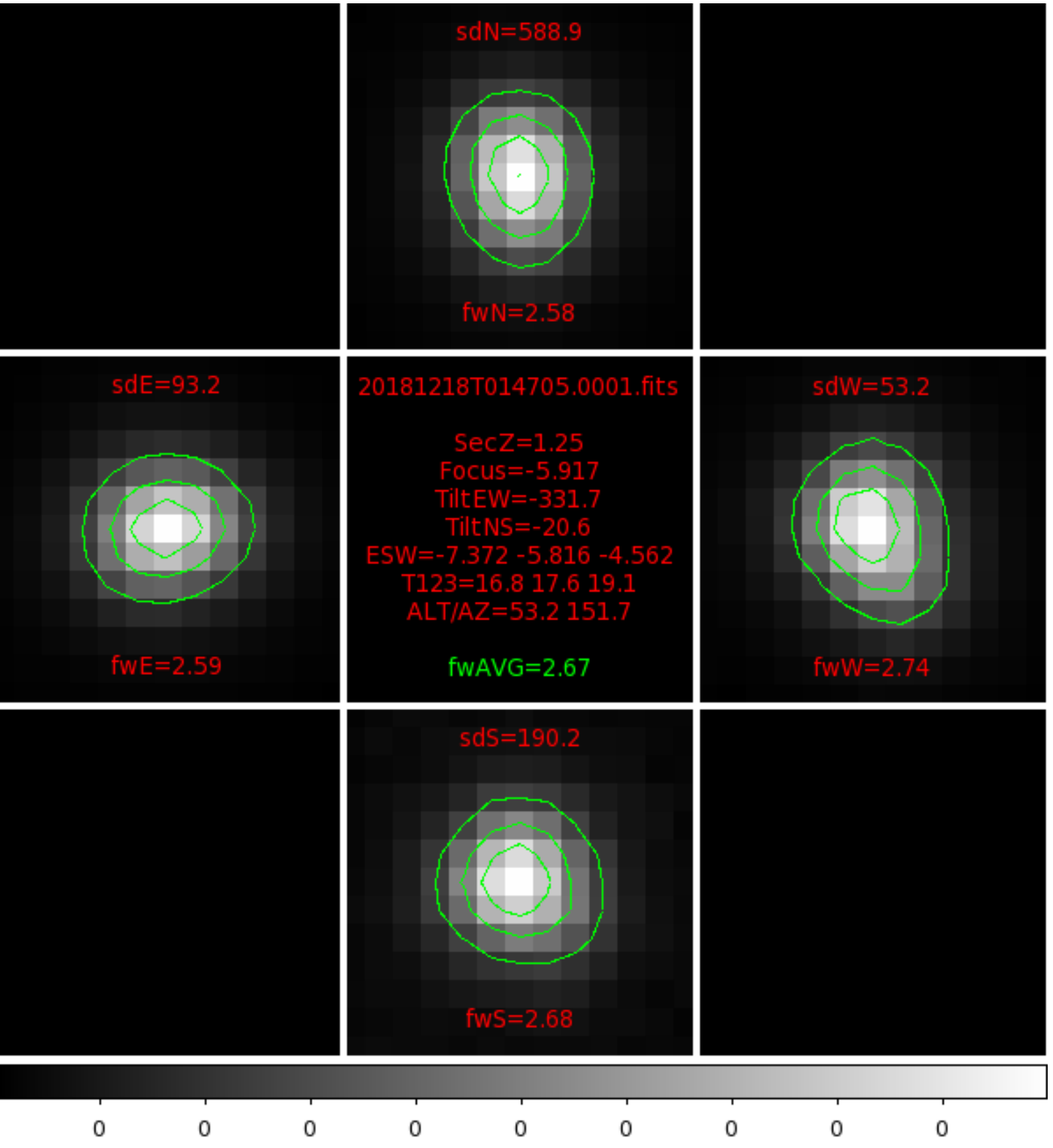
sdN=588.9
fwN=2.58
sdE=93.2
fwE=2.59
20181218T014705.0001.fits
SecZ=1.25
Focus=-5.917
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.372 -5.816 -4.562
T123=16.8 17.6 19.1
ALT/AZ=53.2 151.7
fwAVG=2.67
sdW=53.2
fwW=2.74
sdS=190.2
fwS=2.68
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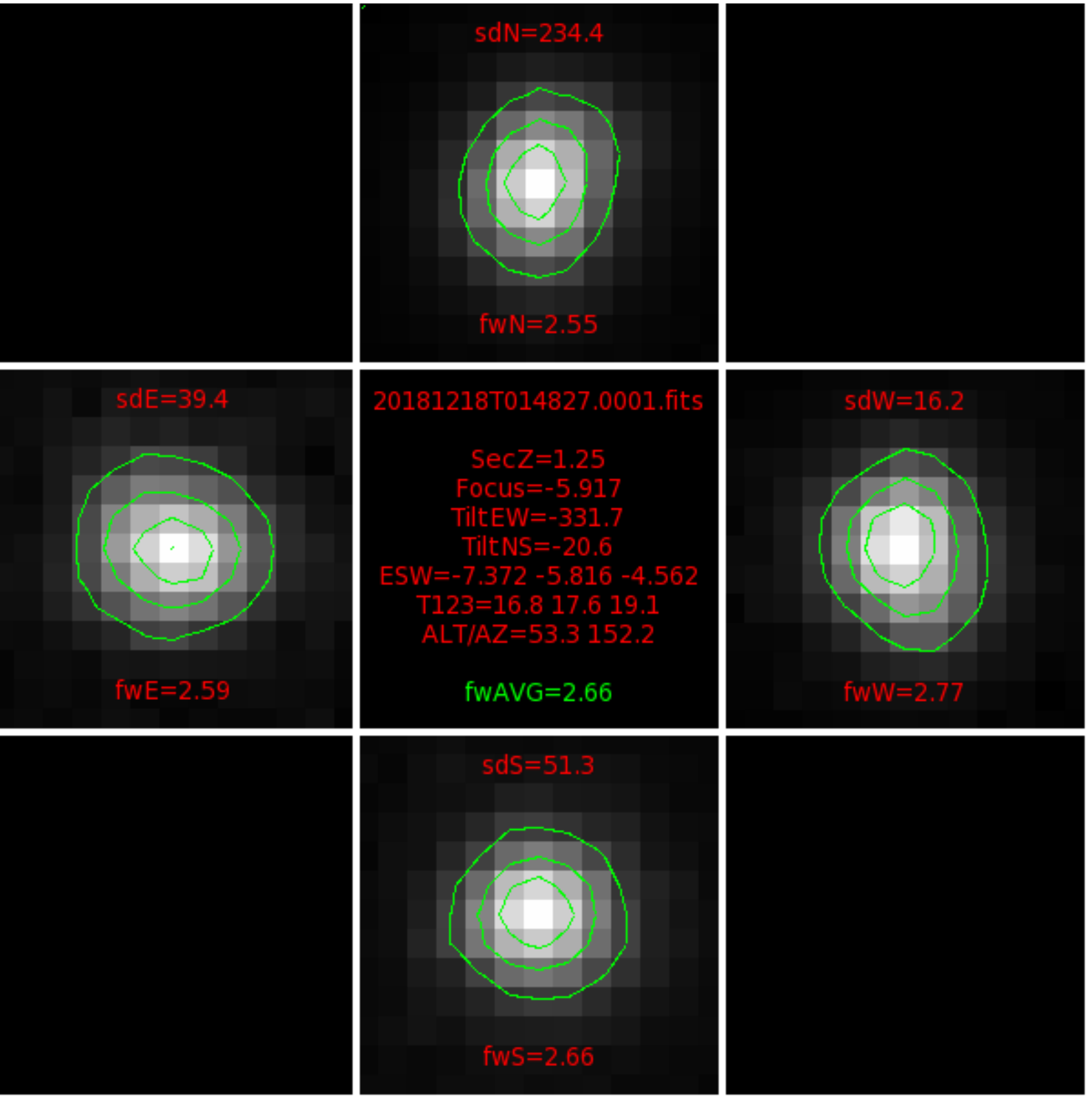
sdN=234.4
fwN=2.55
sdE=39.4
fwE=2.59
20181218T014827.0001.fits
SecZ=1.25
Focus=-5.917
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.372 -5.816 -4.562
T123=16.8 17.6 19.1
ALT/AZ=53.3 152.2
fwAVG=2.66
sdW=16.2
fwW=2.77
sdS=51.3
fwS=2.66
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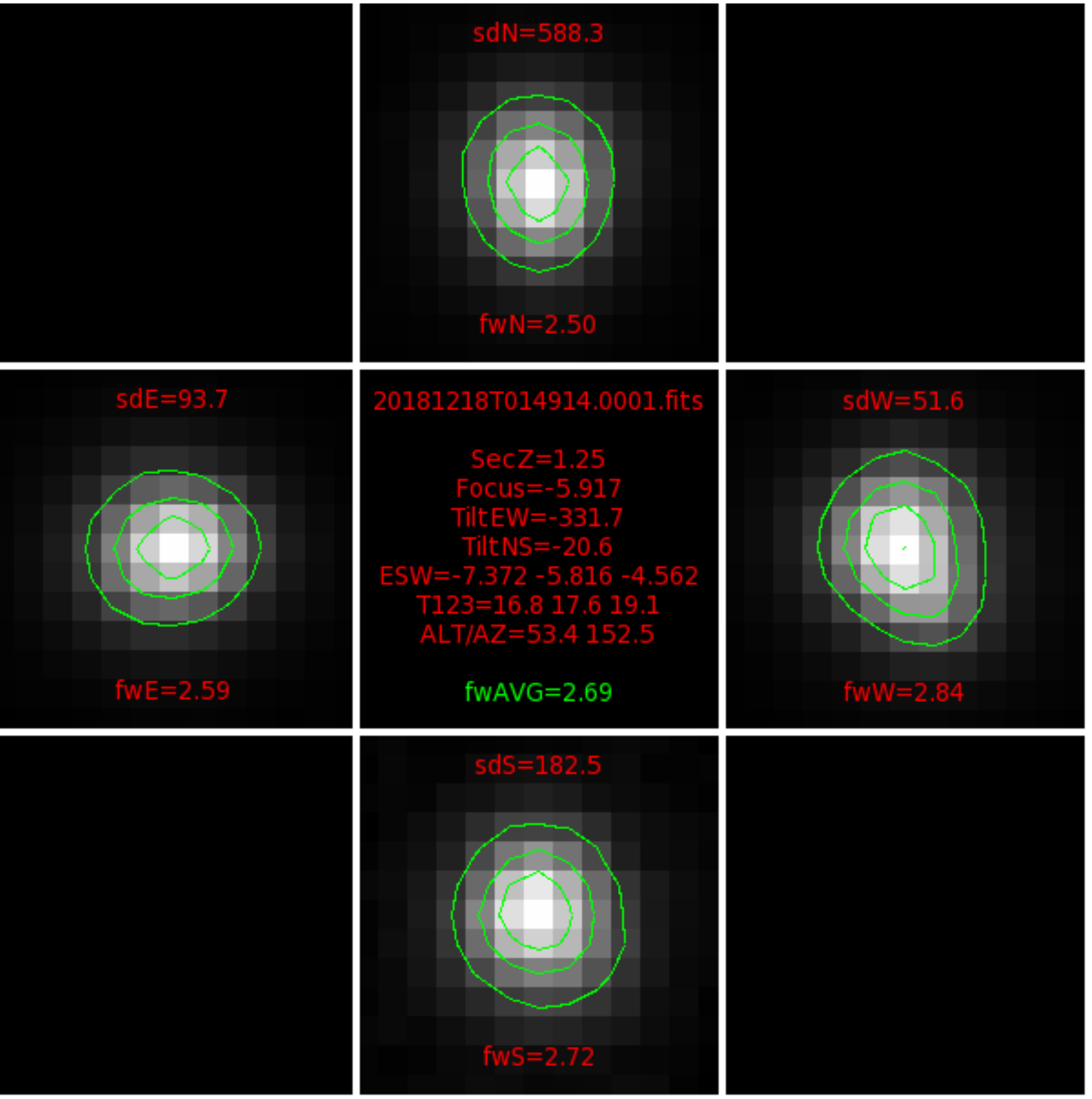
sdN=588.3
fwN=2.50
sdE=93.7
fwE=2.59
20181218T014914.0001.fits
SecZ=1.25
Focus=-5.917
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.372 -5.816 -4.562
T123=16.8 17.6 19.1
ALT/AZ=53.4 152.5
fwAVG=2.69
sdW=51.6
fwW=2.84
sdS=182.5
fwS=2.72
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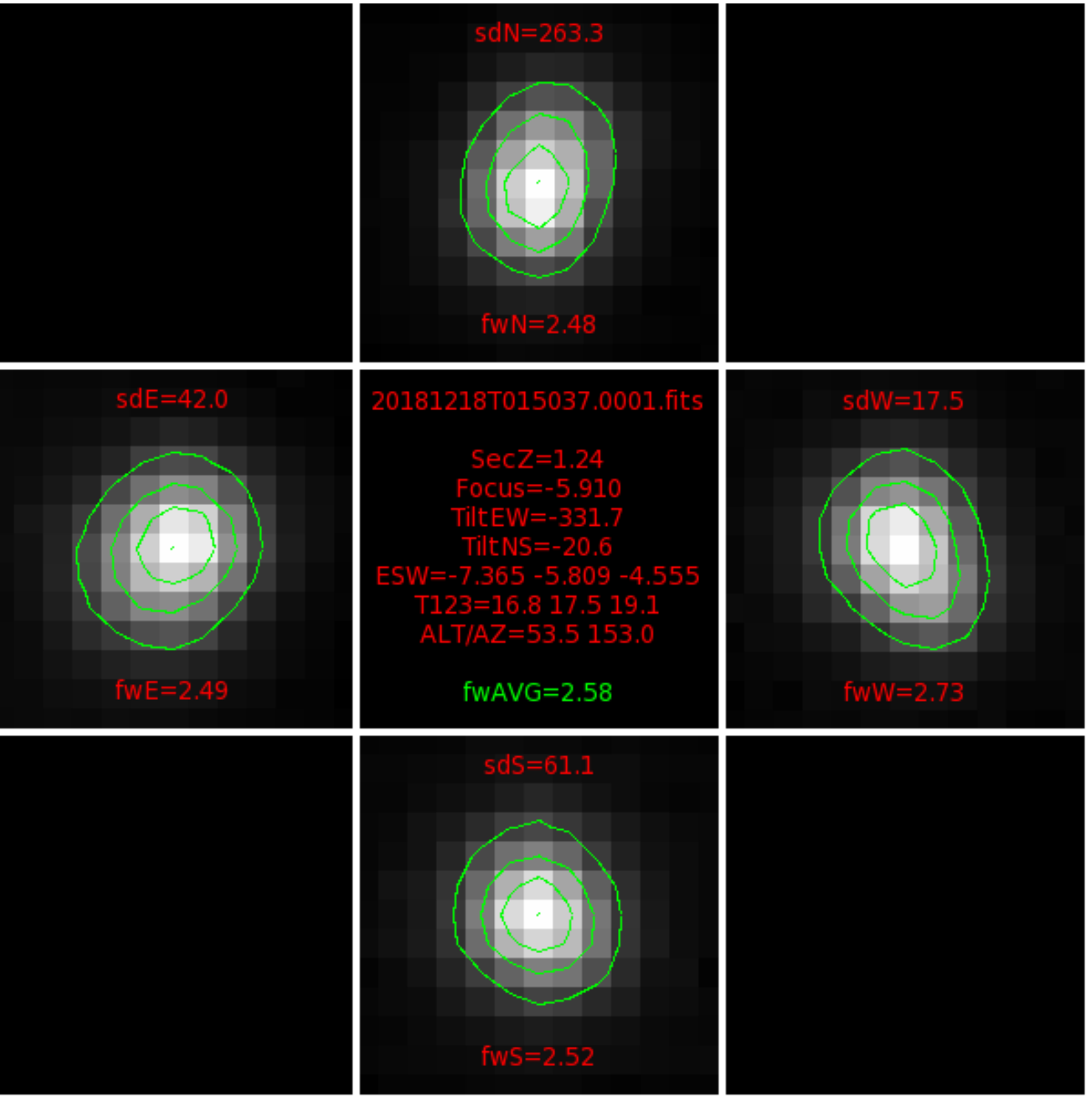
sdN=263.3
fwN=2.48
sdE=42.0
fwE=2.49
20181218T015037.0001.fits
SecZ=1.24
Focus=-5.910
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.365 -5.809 -4.555
T123=16.8 17.5 19.1
ALT/AZ=53.5 153.0
fwAVG=2.58
sdW=17.5
fwW=2.73
sdS=61.1
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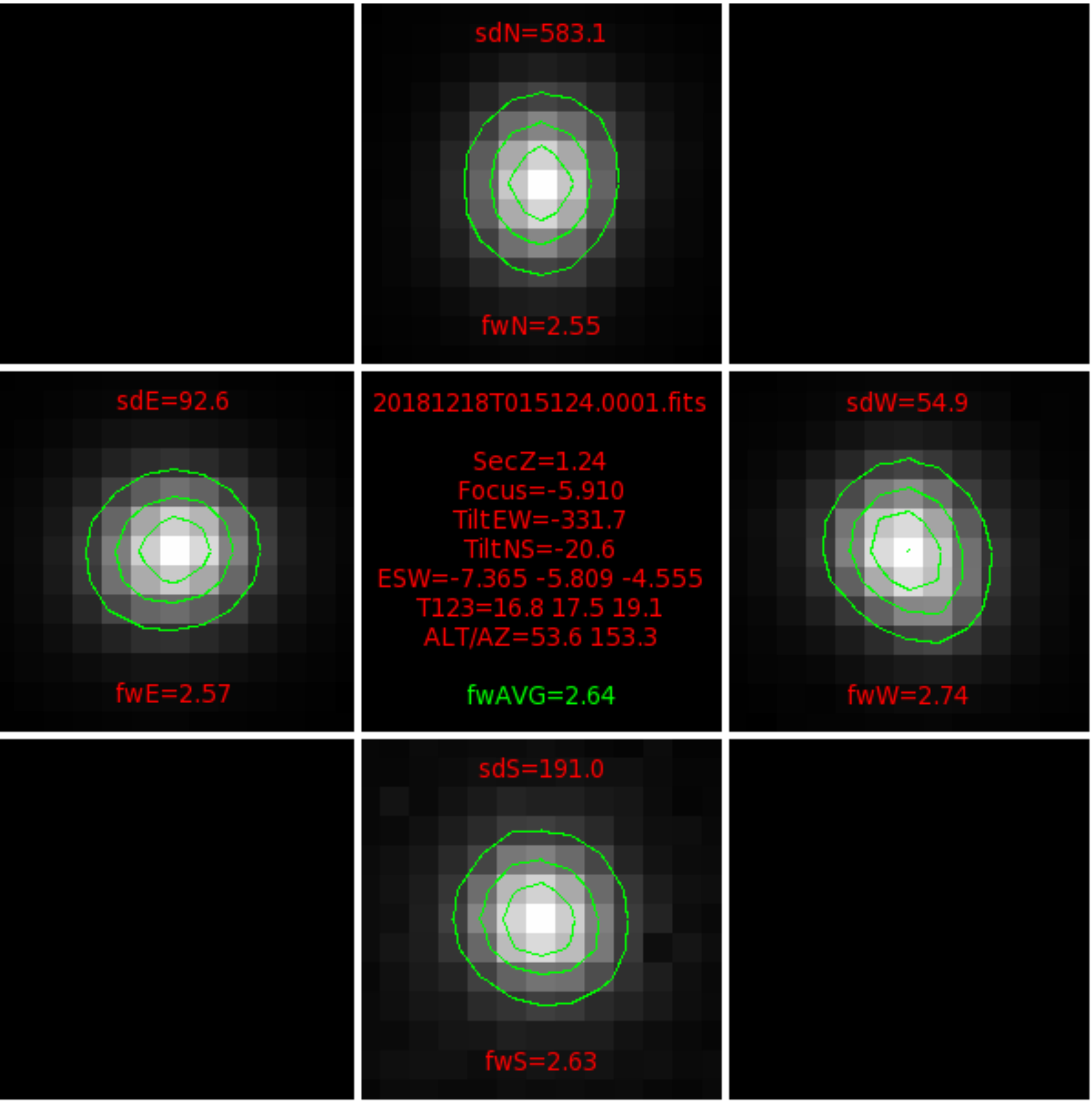
sdN=583.1
fwN=2.55
sdE=92.6
fwE=2.57
20181218T015124.0001.fits
SecZ=1.24
Focus=-5.910
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.365 -5.809 -4.555
T123=16.8 17.5 19.1
ALT/AZ=53.6 153.3
fwAVG=2.64
sdW=54.9
fwW=2.74
sdS=191.0
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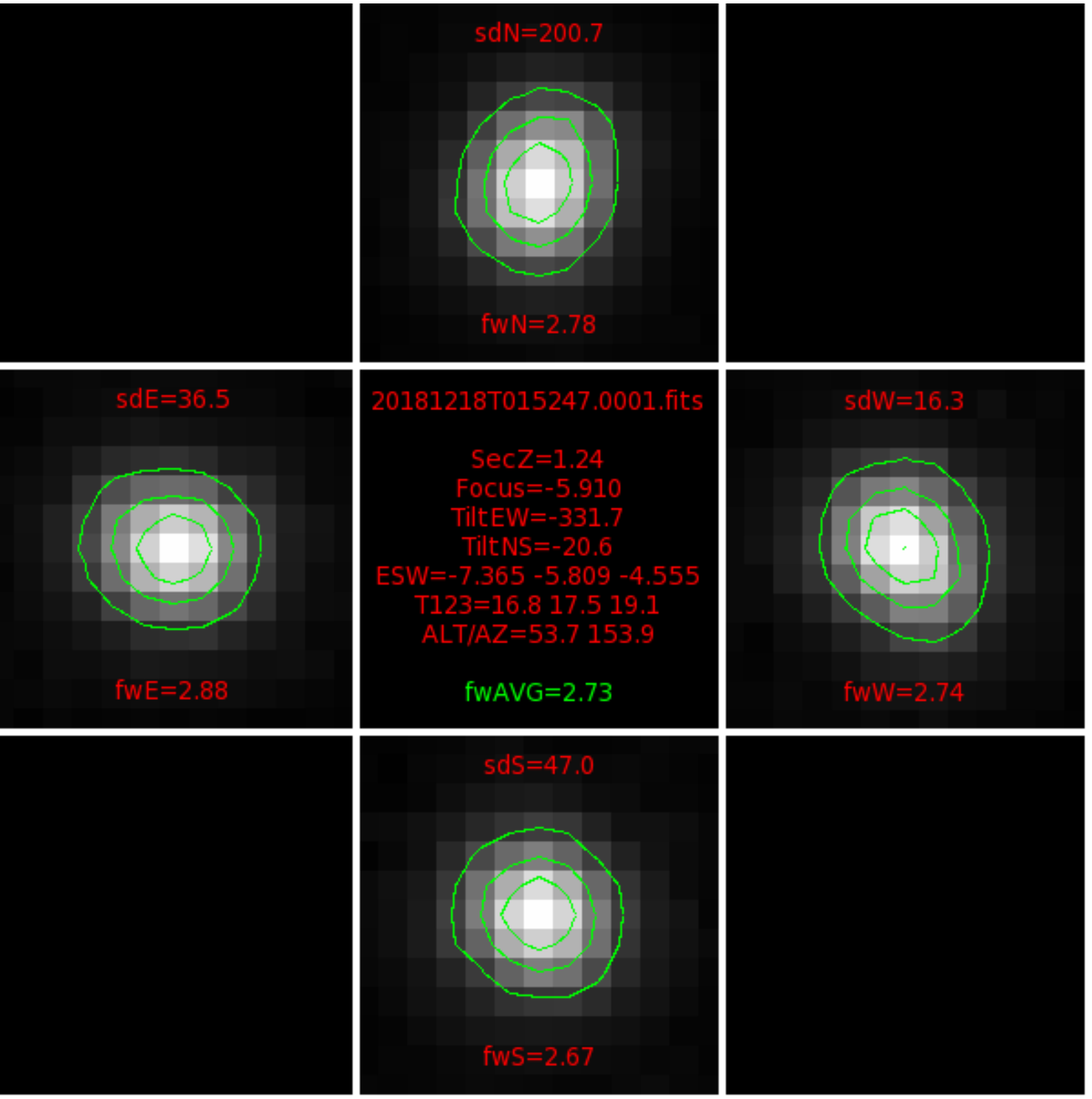
sdN=200.7
fwN=2.78
sdE=36.5
fwE=2.88
20181218T015247.0001.fits
SecZ=1.24
Focus=-5.910
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.365 -5.809 -4.555
T123=16.8 17.5 19.1
ALT/AZ=53.7 153.9
fwAVG=2.73
sdW=16.3
fwW=2.74
sdS=47.0
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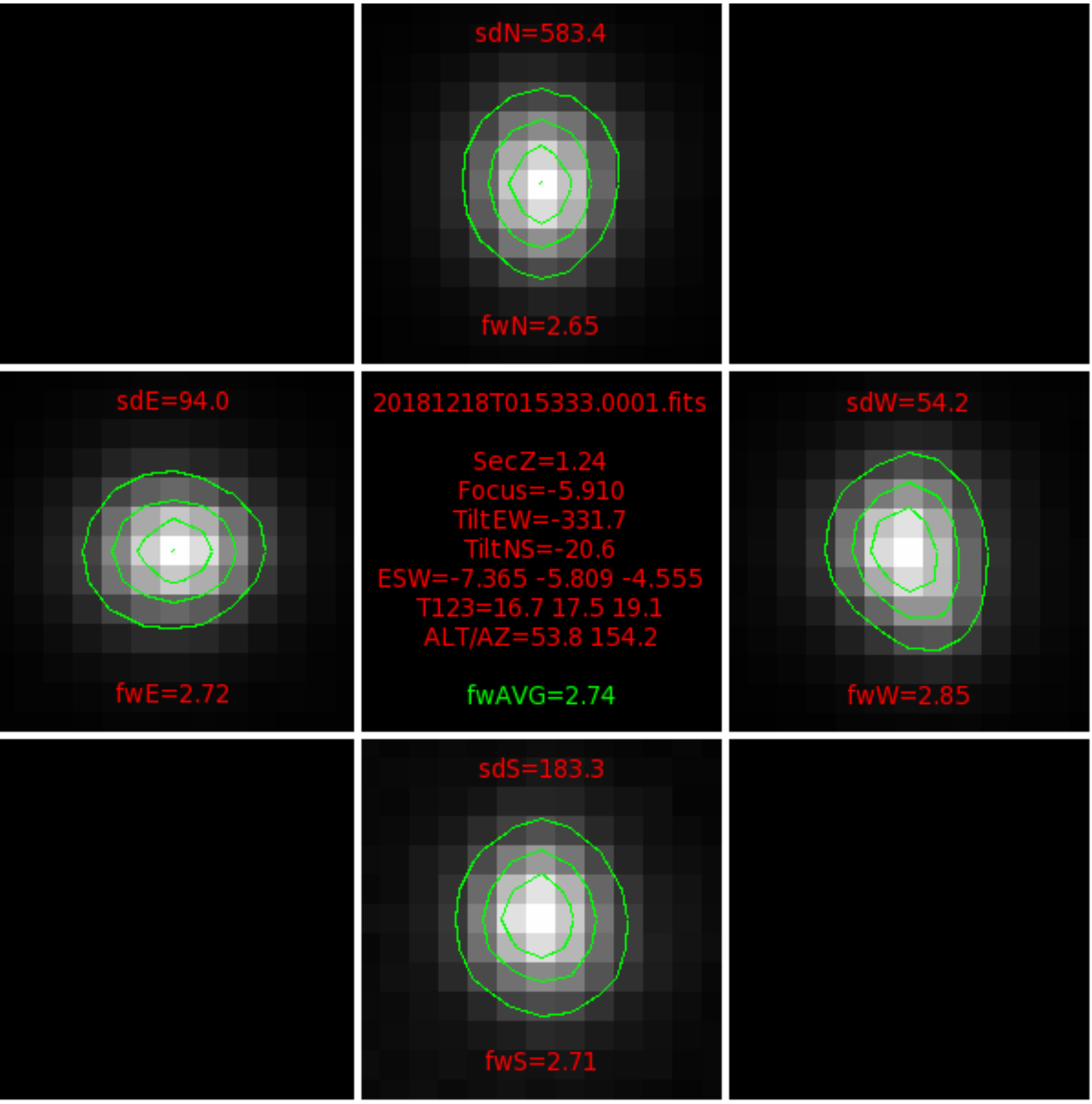
sdN=583.4
fwN=2.65
sdE=94.0
fwE=2.72
20181218T015333.0001.fits
SecZ=1.24
Focus=-5.910
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.365 -5.809 -4.555
T123=16.7 17.5 19.1
ALT/AZ=53.8 154.2
fwAVG=2.74
sdW=54.2
fwW=2.85
sdS=183.3
fwS=2.71
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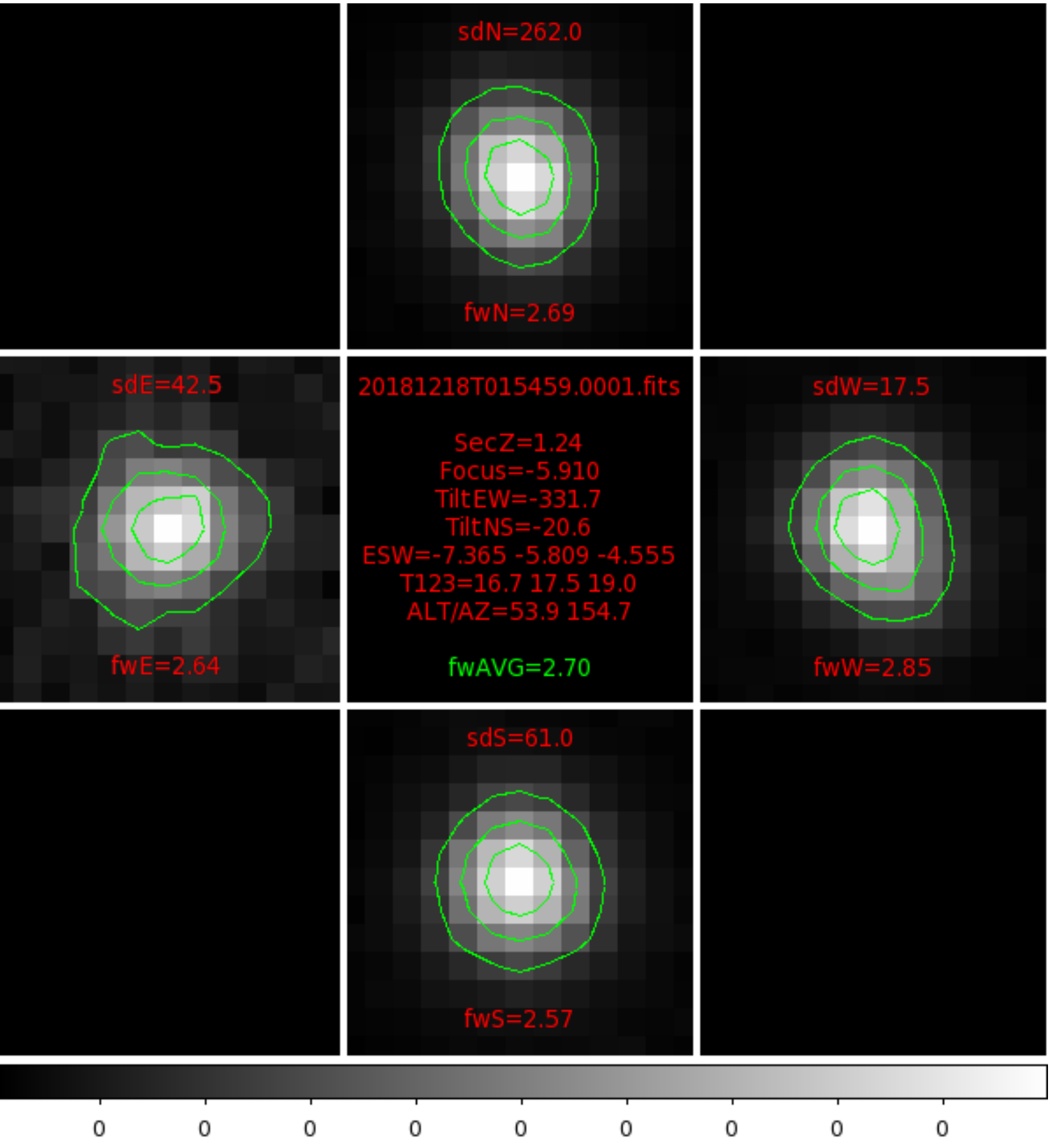
sdN=262.0
fwN=2.69
sdE=42.5
fwE=2.64
20181218T015459.0001.fits
SecZ=1.24
Focus=-5.910
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.365 -5.809 -4.555
T123=16.7 17.5 19.0
ALT/AZ=53.9 154.7
fwAVG=2.70
sdW=17.5
fwW=2.85
sdS=61.0
fwS=2.57
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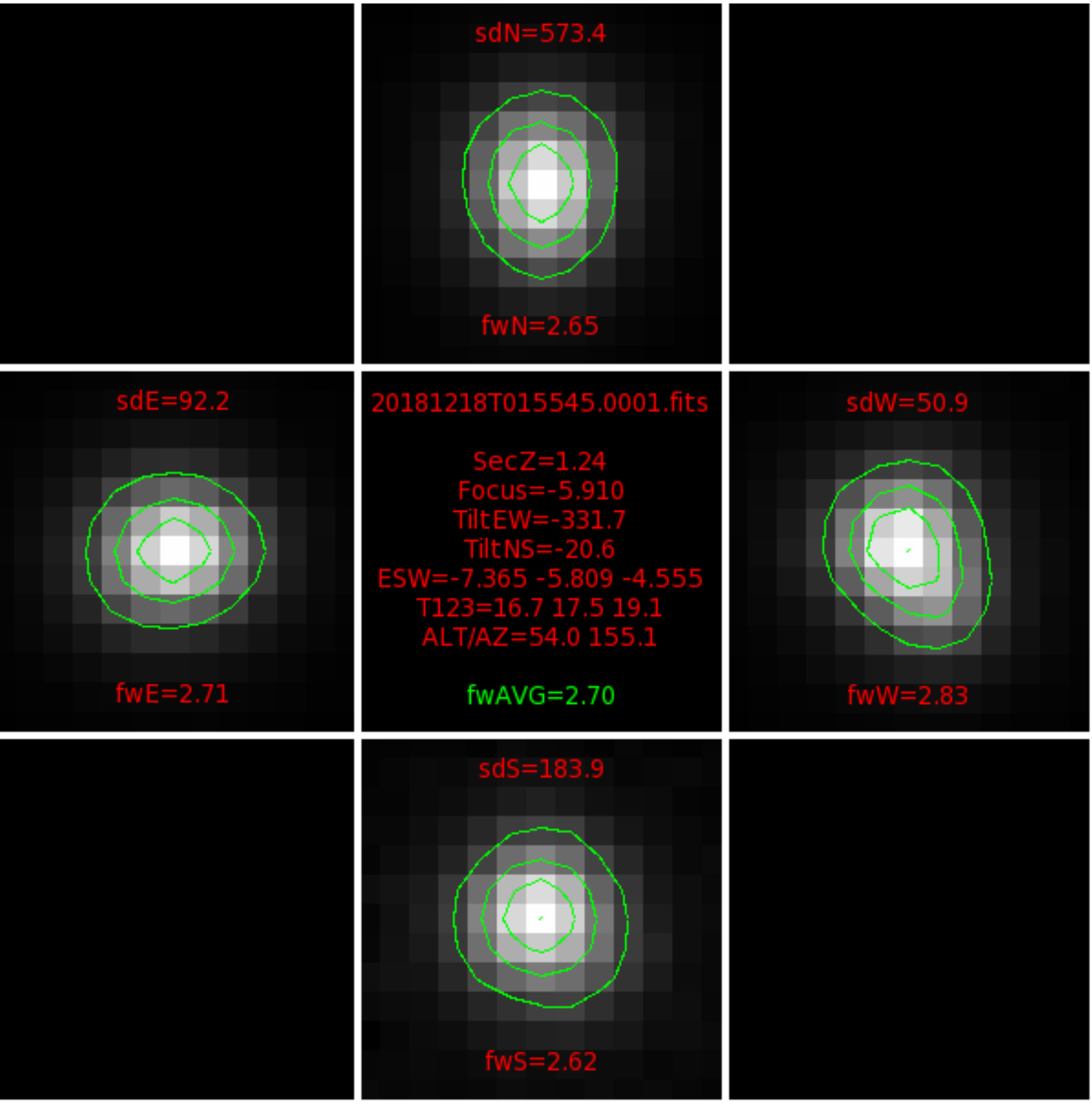
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fwN=2.65
sdE=92.2
fwE=2.71
20181218T015545.0001.fits
SecZ=1.24
Focus=-5.910
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.365 -5.809 -4.555
T123=16.7 17.5 19.1
ALT/AZ=54.0 155.1
fwAVG=2.70
sdW=50.9
fwW=2.83
sdS=183.9
fwS=2.62
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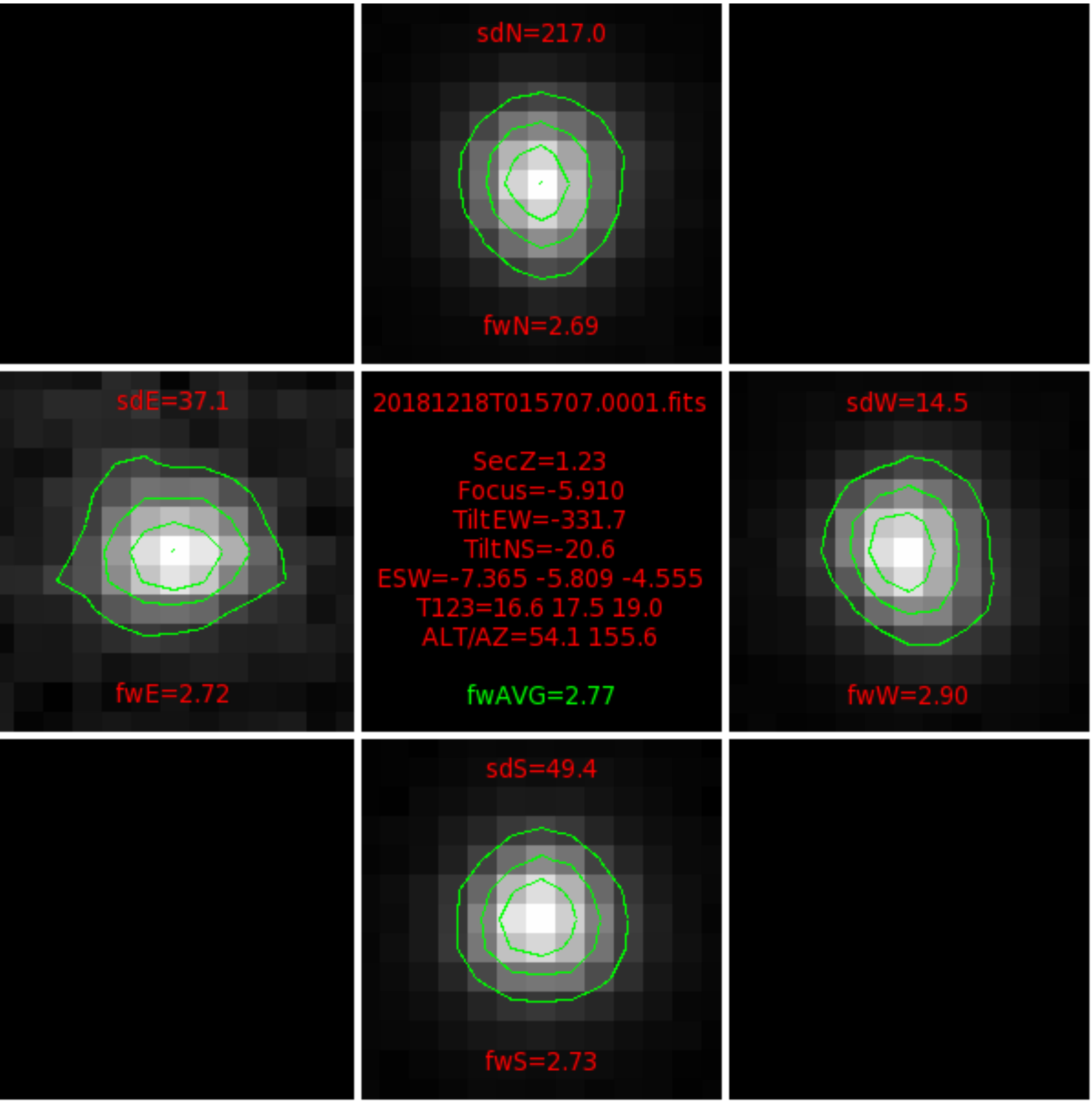
sdN=217.0
fwN=2.69
sdE=37.1
fwE=2.72
20181218T015707.0001.fits
SecZ=1.23
Focus=-5.910
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.365 -5.809 -4.555
T123=16.6 17.5 19.0
ALT/AZ=54.1 155.6
fwAVG=2.77
sdW=14.5
fwW=2.90
sdS=49.4
fwS=2.73
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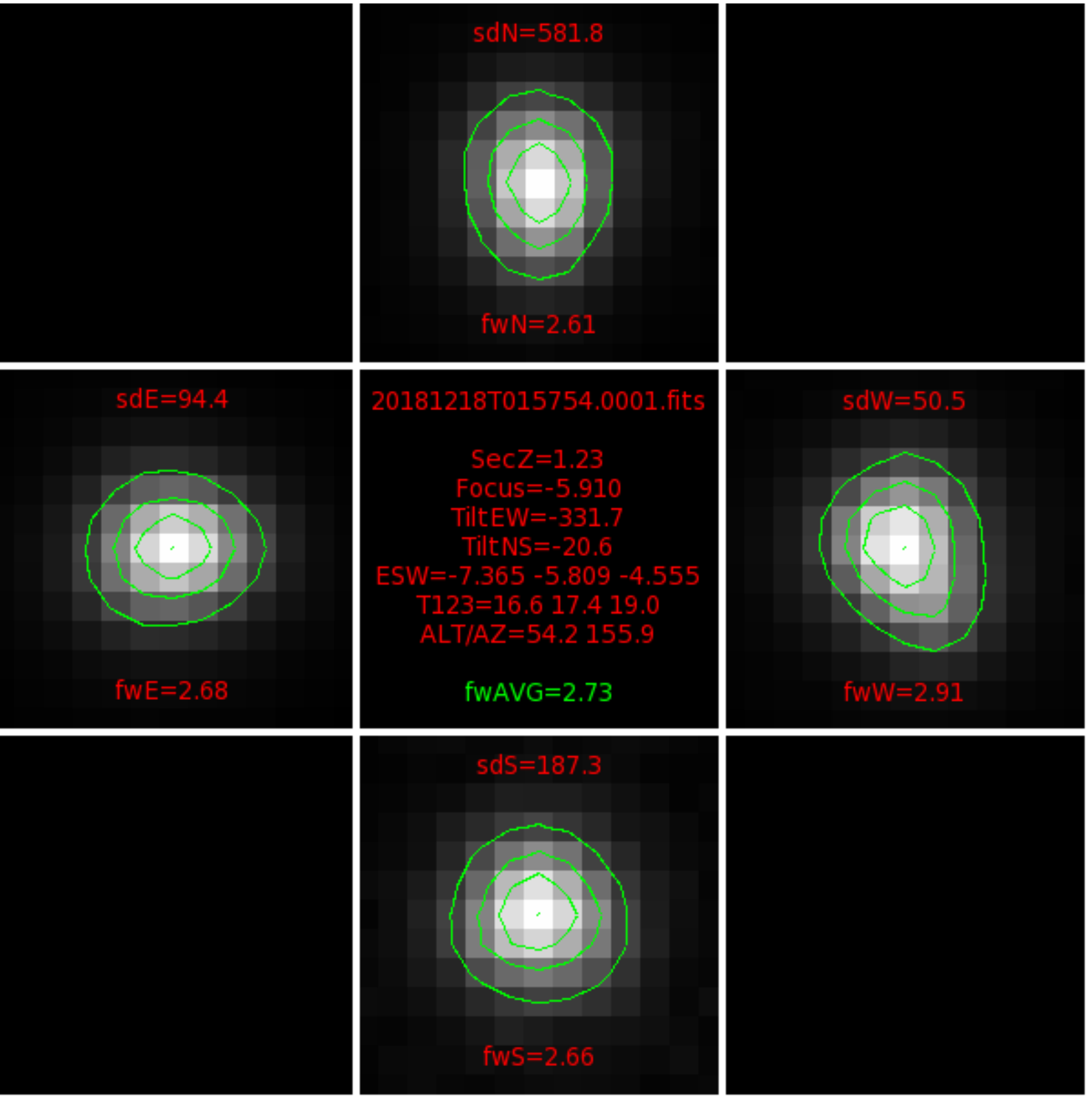
sdN=581.8
fwN=2.61
sdE=94.4
fwE=2.68
20181218T015754.0001.fits
SecZ=1.23
Focus=-5.910
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.365 -5.809 -4.555
T123=16.6 17.4 19.0
ALT/AZ=54.2 155.9
fwAVG=2.73
sdW=50.5
fwW=2.91
sdS=187.3
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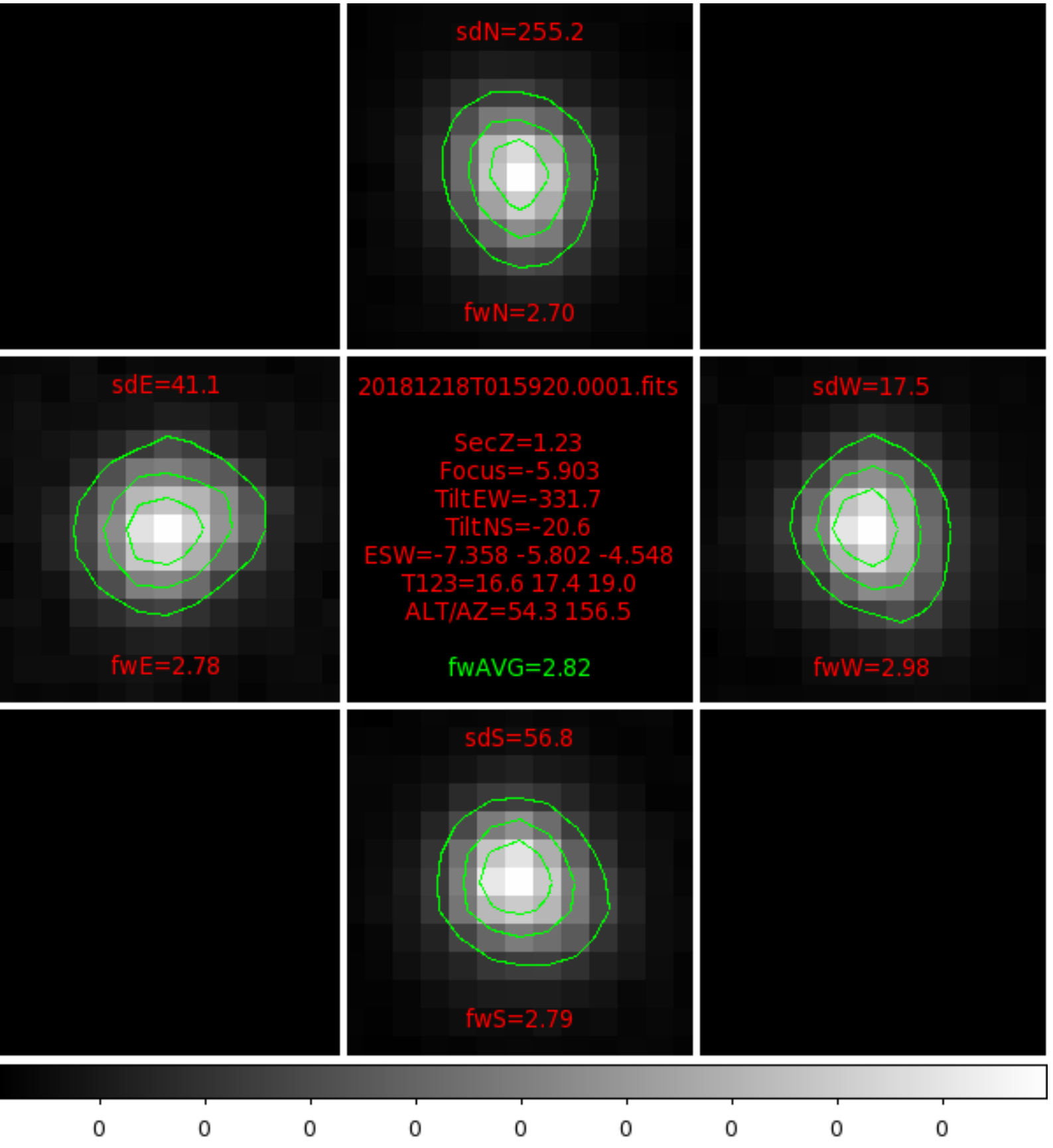
sdN=255.2
fwN=2.70
sdE=41.1
fwE=2.78
20181218T015920.0001.fits
SecZ=1.23
Focus=-5.903
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.358 -5.802 -4.548
T123=16.6 17.4 19.0
ALT/AZ=54.3 156.5
fwAVG=2.82
sdW=17.5
fwW=2.98
sdS=56.8
fwS=2.79
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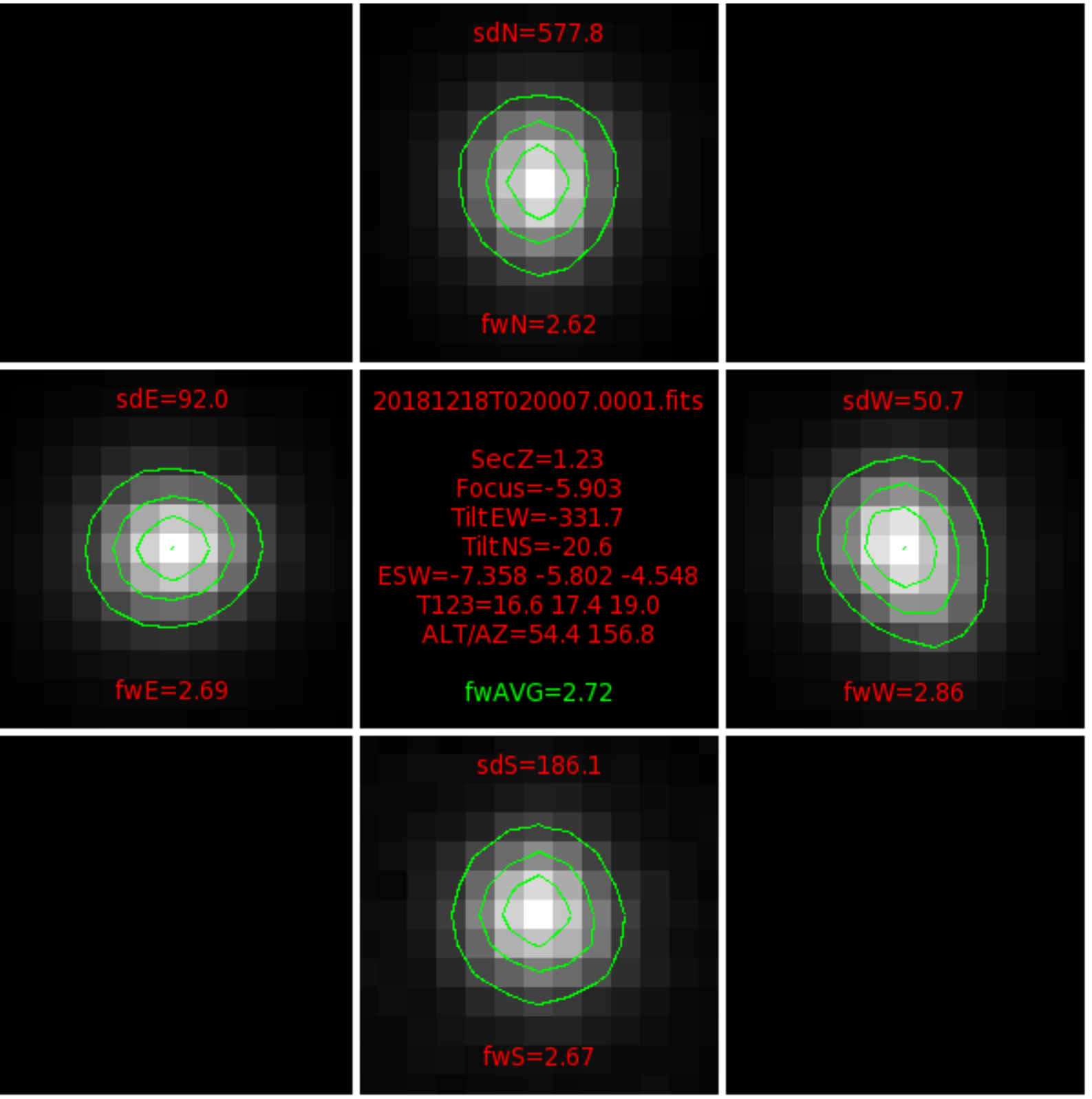
sdN=577.8
fwN=2.62
sdE=92.0
fwE=2.69
20181218T020007.0001.fits
SecZ=1.23
Focus=-5.903
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.358 -5.802 -4.548
T123=16.6 17.4 19.0
ALT/AZ=54.4 156.8
fwAVG=2.72
sdW=50.7
fwW=2.86
sdS=186.1
fwS=2.67
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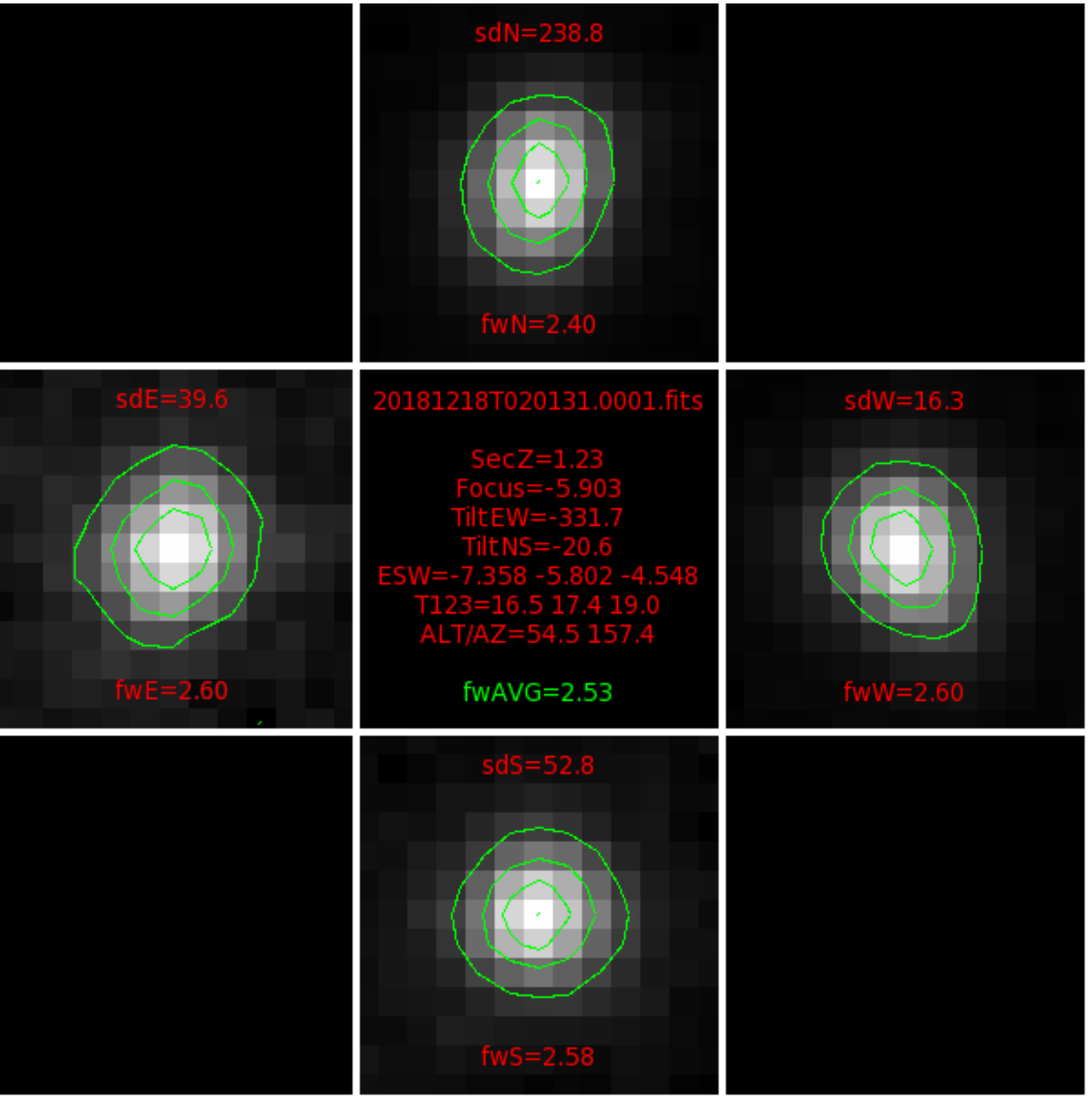
sdN=238.8
fwN=2.40
sdE=39.6
fwE=2.60
20181218T020131.0001.fits
SecZ=1.23
Focus=-5.903
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.358 -5.802 -4.548
T123=16.5 17.4 19.0
ALT/AZ=54.5 157.4
fwAVG=2.53
sdW=16.3
fwW=2.60
sdS=52.8
fwS=2.58
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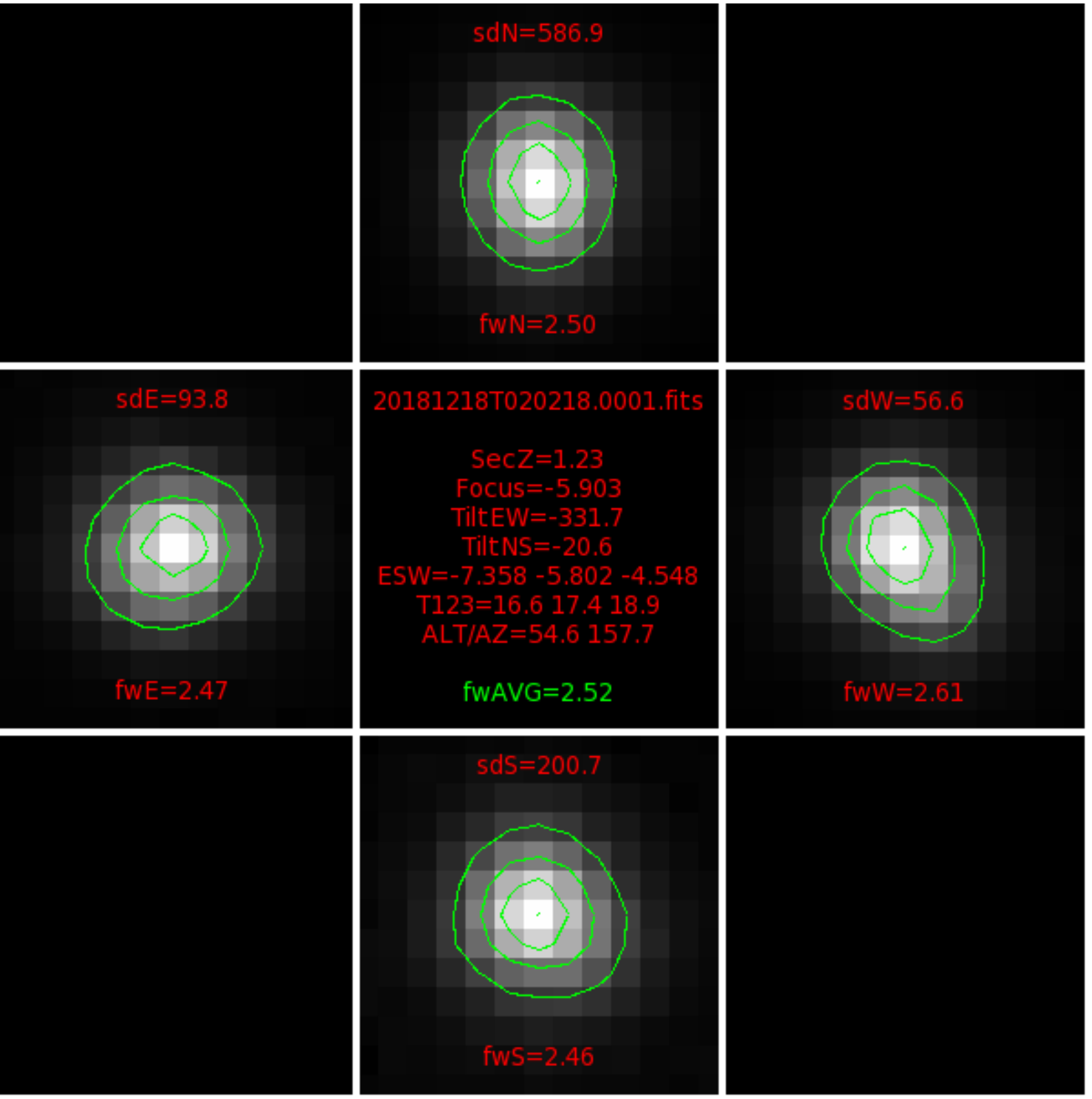
sdN=586.9
fwN=2.50
sdE=93.8
fwE=2.47
20181218T020218.0001.fits
SecZ=1.23
Focus=-5.903
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.358 -5.802 -4.548
T123=16.6 17.4 18.9
ALT/AZ=54.6 157.7
fwAVG=2.52
sdW=56.6
fwW=2.61
sdS=200.7
fwS=2.46
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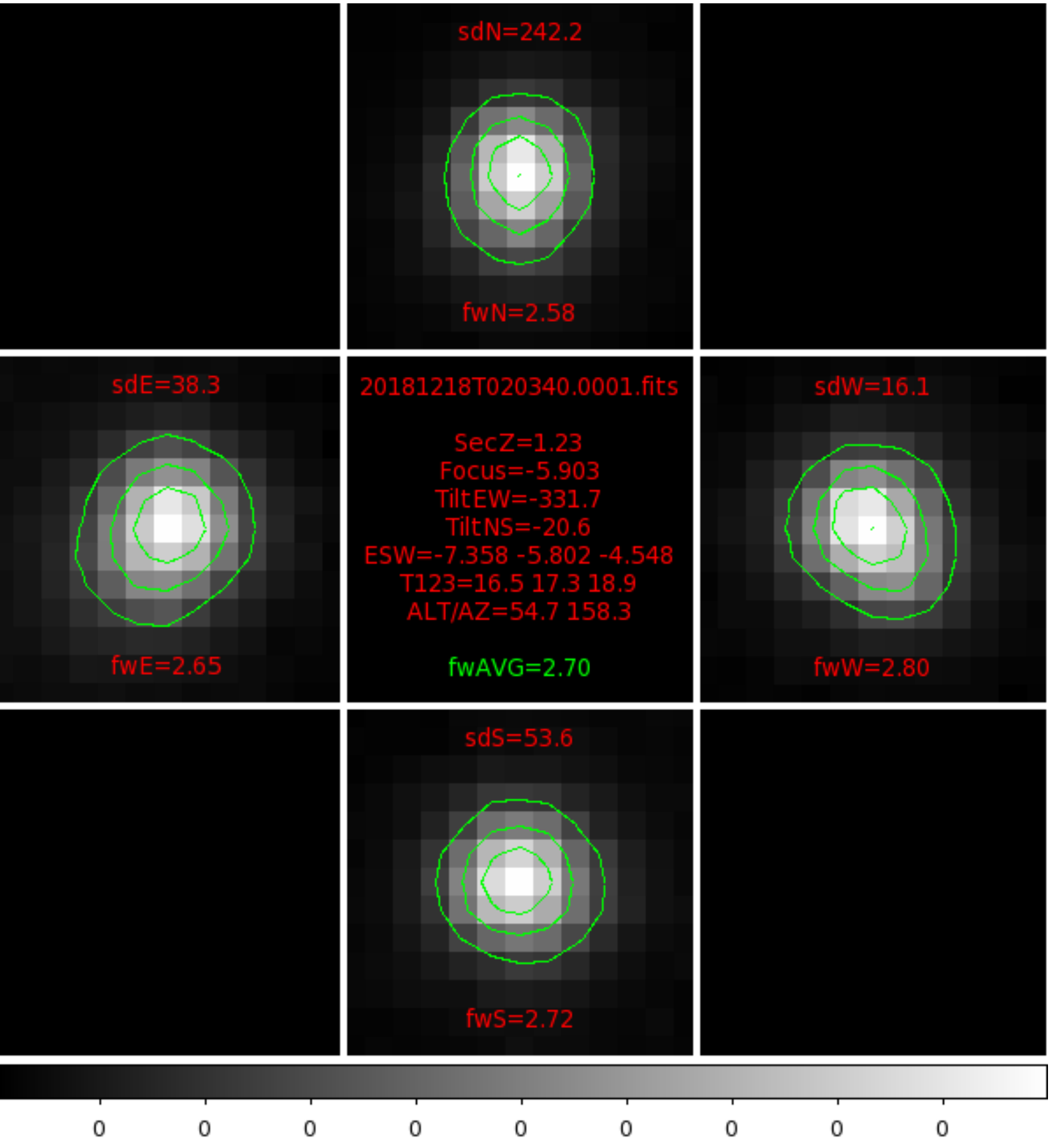
sdN=242.2
fwN=2.58
sdE=38.3
fwE=2.65
20181218T020340.0001.fits
SecZ=1.23
Focus=-5.903
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.358 -5.802 -4.548
T123=16.5 17.3 18.9
ALT/AZ=54.7 158.3
fwAVG=2.70
sdW=16.1
fwW=2.80
sdS=53.6
fwS=2.72
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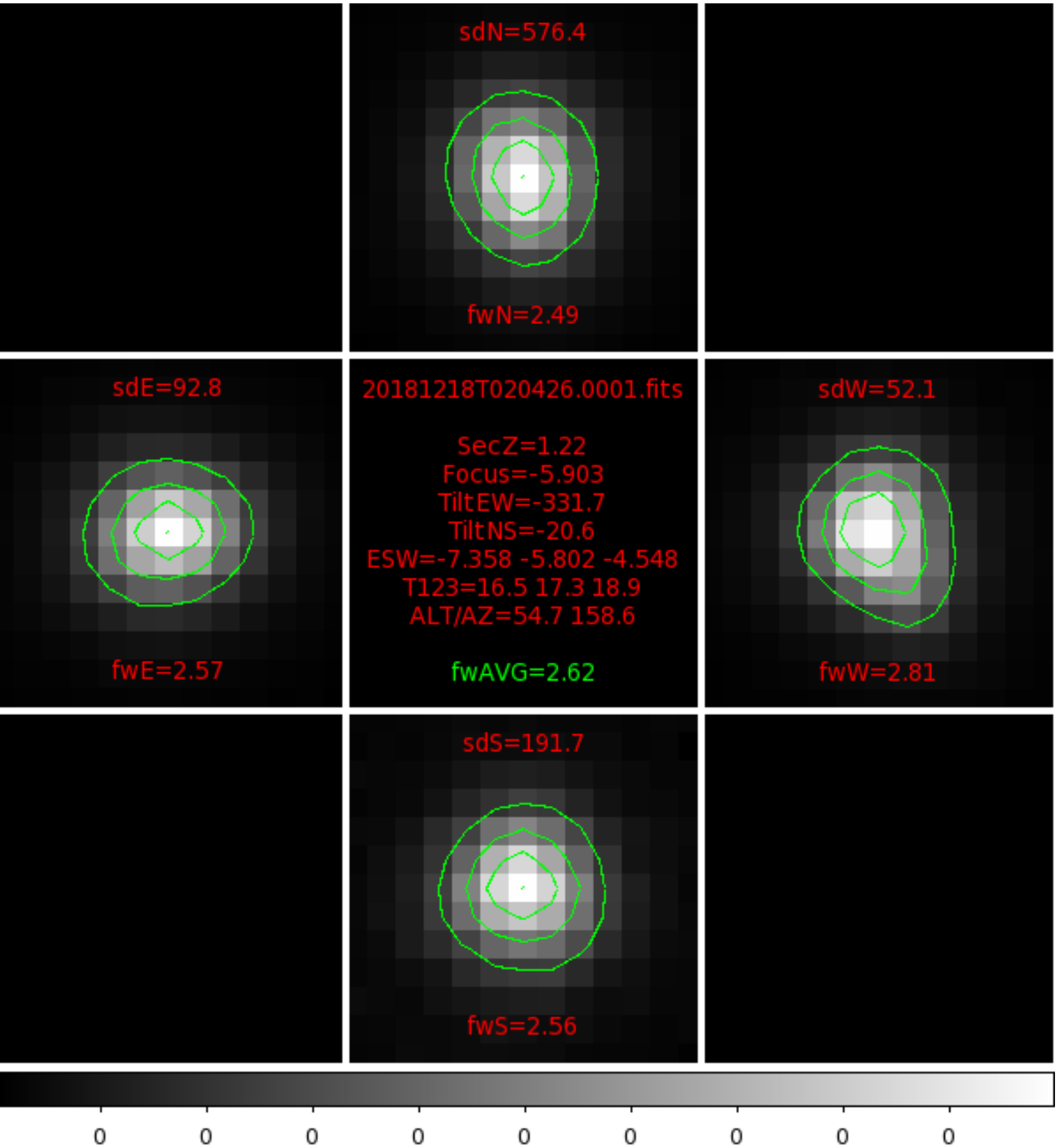
sdN=576.4
fwN=2.49
sdE=92.8
fwE=2.57
20181218T020426.0001.fits
SecZ=1.22
Focus=-5.903
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.358 -5.802 -4.548
T123=16.5 17.3 18.9
ALT/AZ=54.7 158.6
fwAVG=2.62
sdW=52.1
fwW=2.81
sdS=191.7
fwS=2.56
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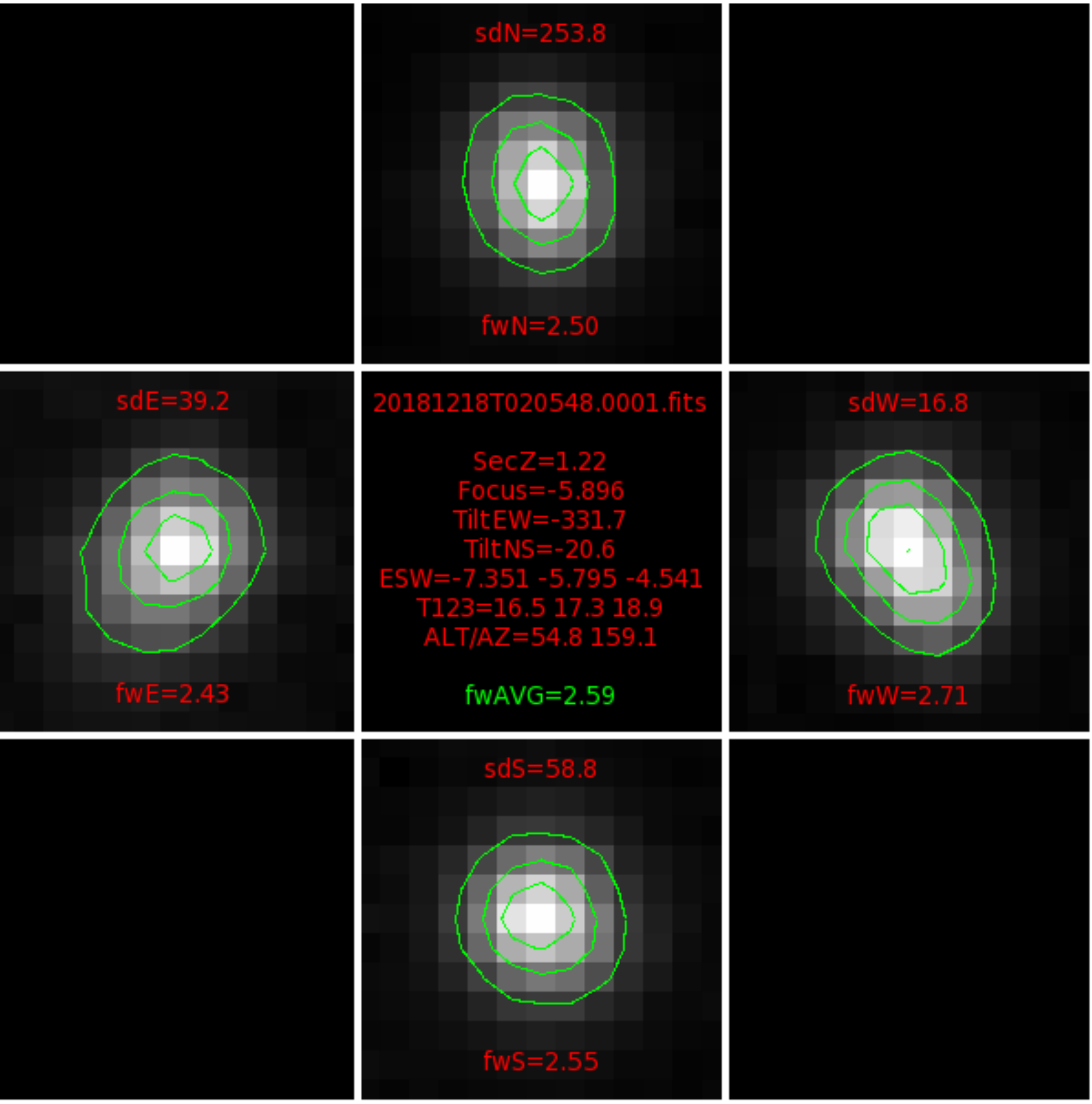
sdN=253.8
fwN=2.50
sdE=39.2
fwE=2.43
20181218T020548.0001.fits
SecZ=1.22
Focus=-5.896
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.351 -5.795 -4.541
T123=16.5 17.3 18.9
ALT/AZ=54.8 159.1
fwAVG=2.59
sdW=16.8
fwW=2.71
sdS=58.8
fwS=2.55
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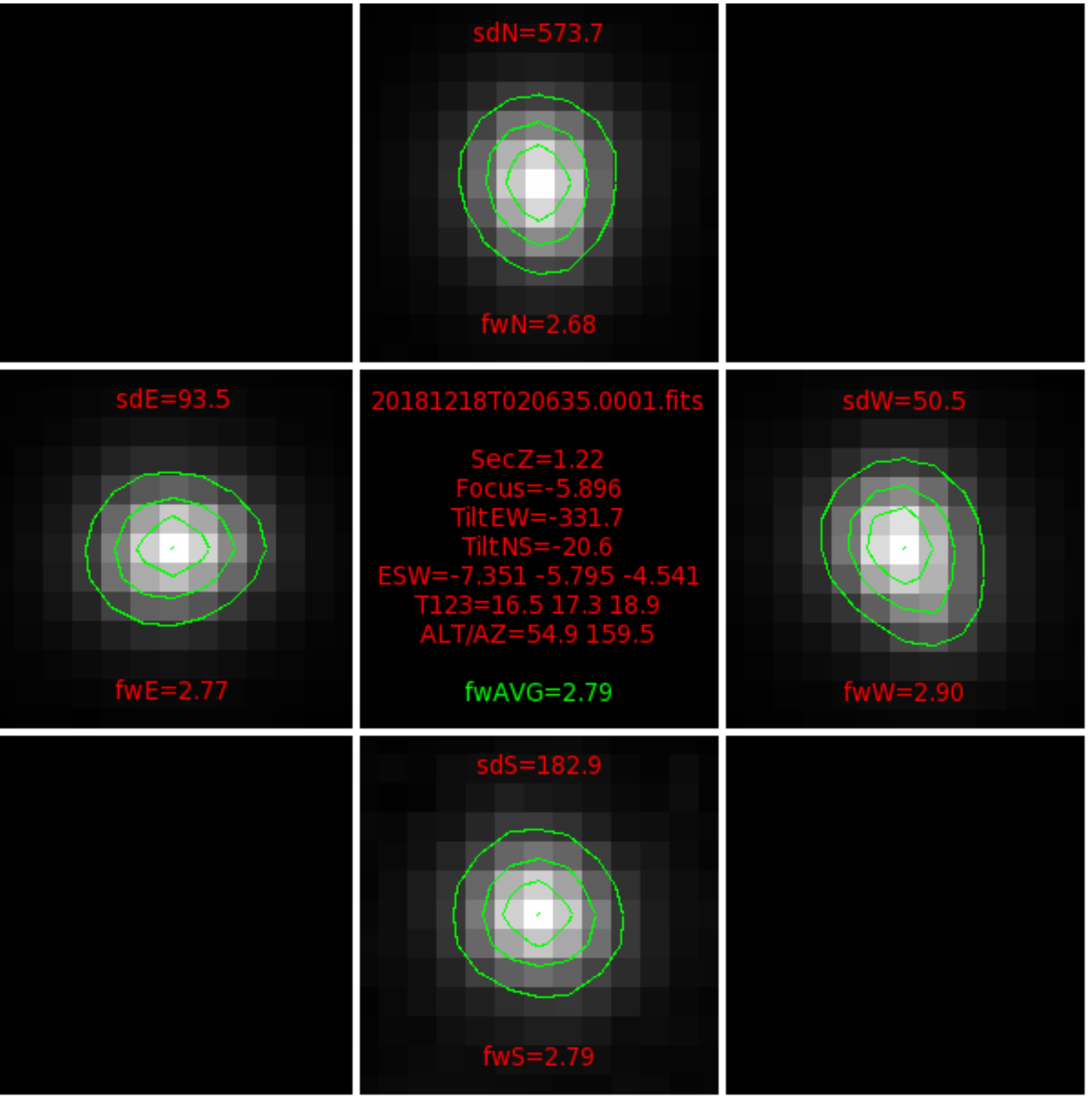
sdN=573.7
fwN=2.68
sdE=93.5
fwE=2.77
20181218T020635.0001.fits
SecZ=1.22
Focus=-5.896
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.351 -5.795 -4.541
T123=16.5 17.3 18.9
ALT/AZ=54.9 159.5
fwAVG=2.79
sdW=50.5
fwW=2.90
sdS=182.9
fwS=2.79
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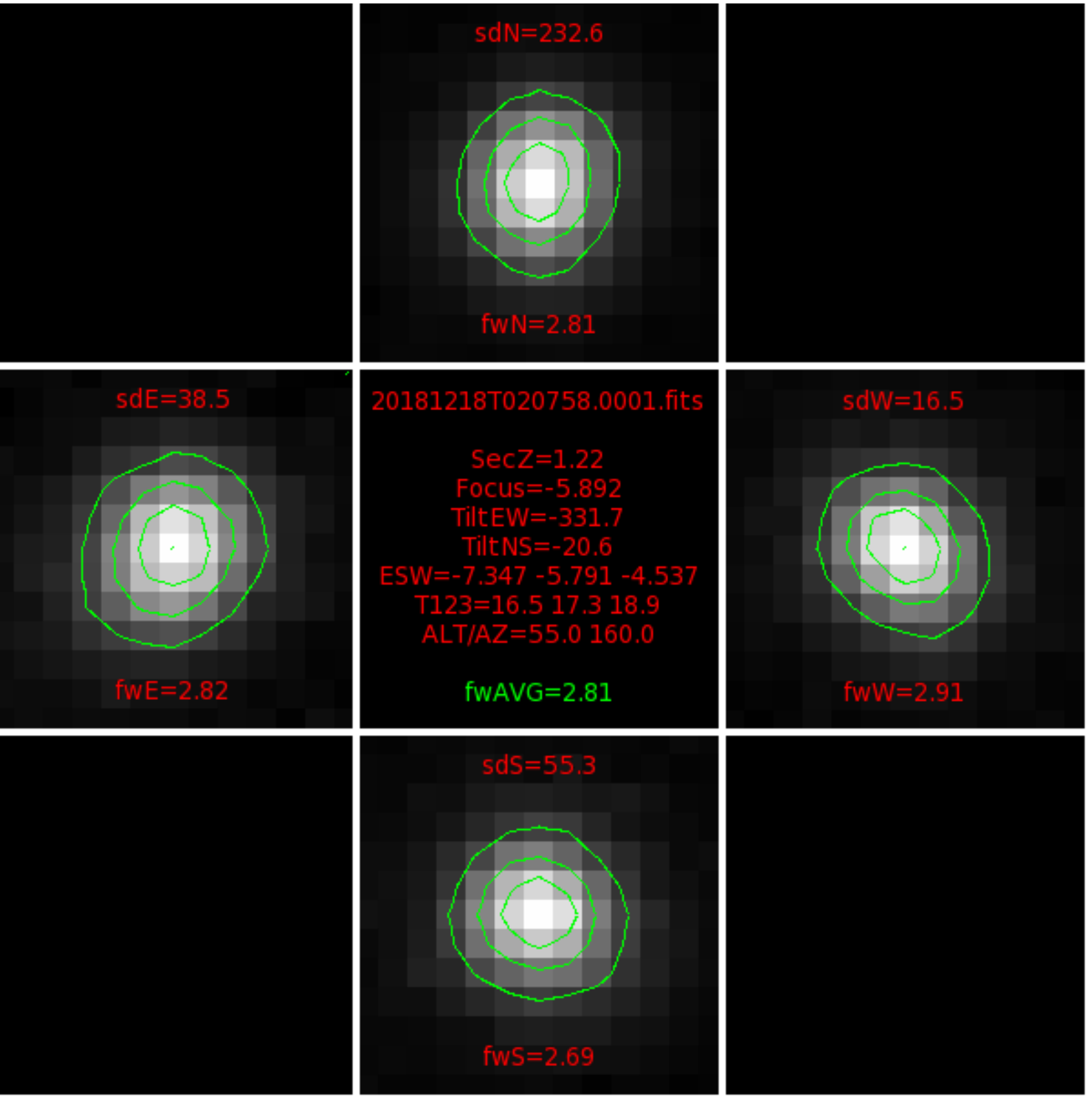
sdN=232.6
fwN=2.81
sdE=38.5
fwE=2.82
20181218T020758.0001.fits
SecZ=1.22
Focus=-5.892
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.347 -5.791 -4.537
T123=16.5 17.3 18.9
ALT/AZ=55.0 160.0
fwAVG=2.81
sdW=16.5
fwW=2.91
sdS=55.3
fwS=2.69
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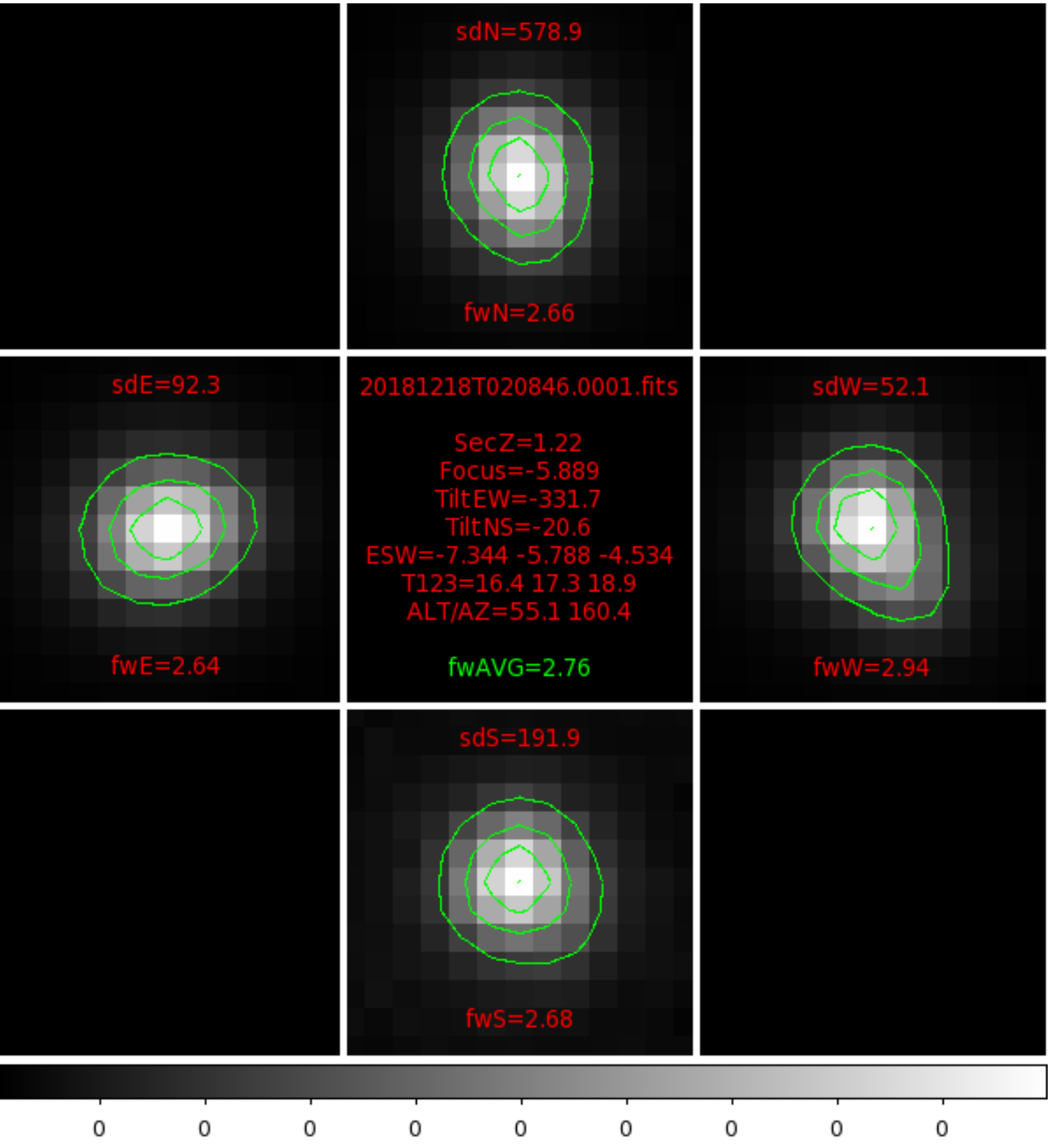
sdN=578.9
fwN=2.66
sdE=92.3
fwE=2.64
20181218T020846.0001.fits
SecZ=1.22
Focus=-5.889
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.344 -5.788 -4.534
T123=16.4 17.3 18.9
ALT/AZ=55.1 160.4
fwAVG=2.76
sdW=52.1
fwW=2.94
sdS=191.9
fwS=2.68
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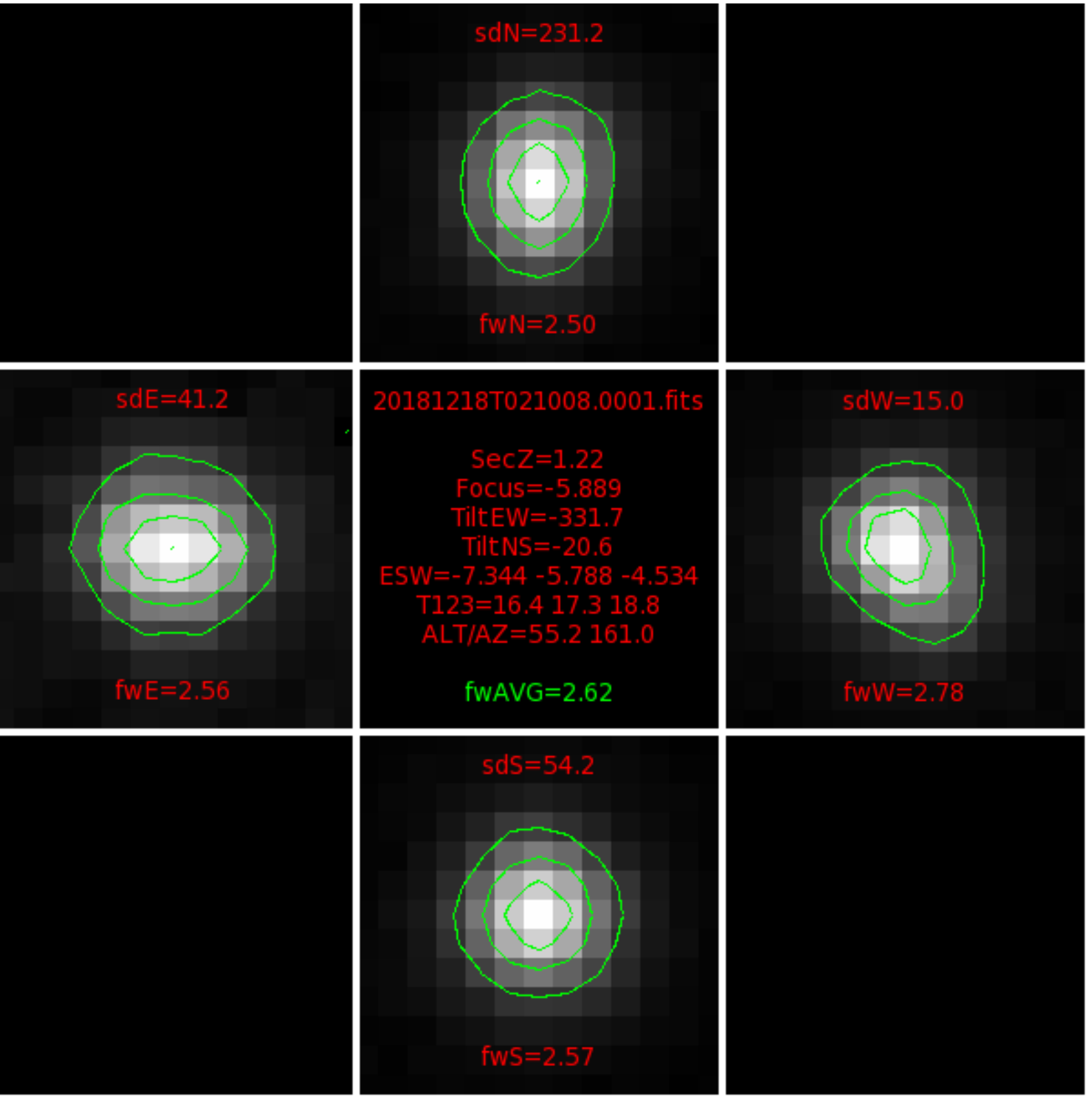
sdN=231.2
fwN=2.50
sdE=41.2
fwE=2.56
20181218T021008.0001.fits
SecZ=1.22
Focus=-5.889
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.344 -5.788 -4.534
T123=16.4 17.3 18.8
ALT/AZ=55.2 161.0
fwAVG=2.62
sdW=15.0
fwW=2.78
sdS=54.2
fwS=2.57
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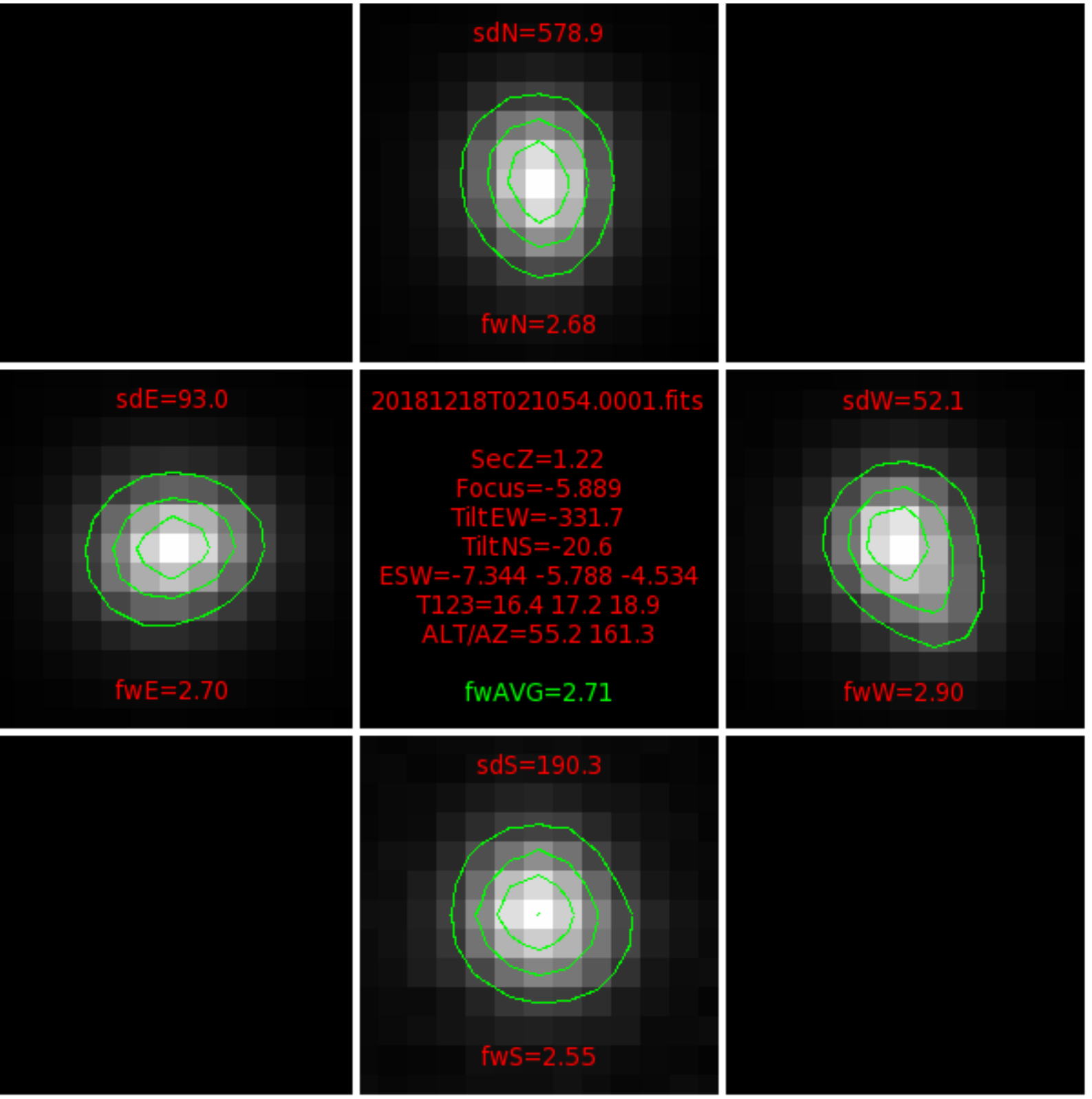
sdN=578.9
fwN=2.68
sdE=93.0
fwE=2.70
20181218T021054.0001.fits
SecZ=1.22
Focus=-5.889
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.344 -5.788 -4.534
T123=16.4 17.2 18.9
ALT/AZ=55.2 161.3
fwAVG=2.71
sdW=52.1
fwW=2.90
sdS=190.3
fwS=2.55
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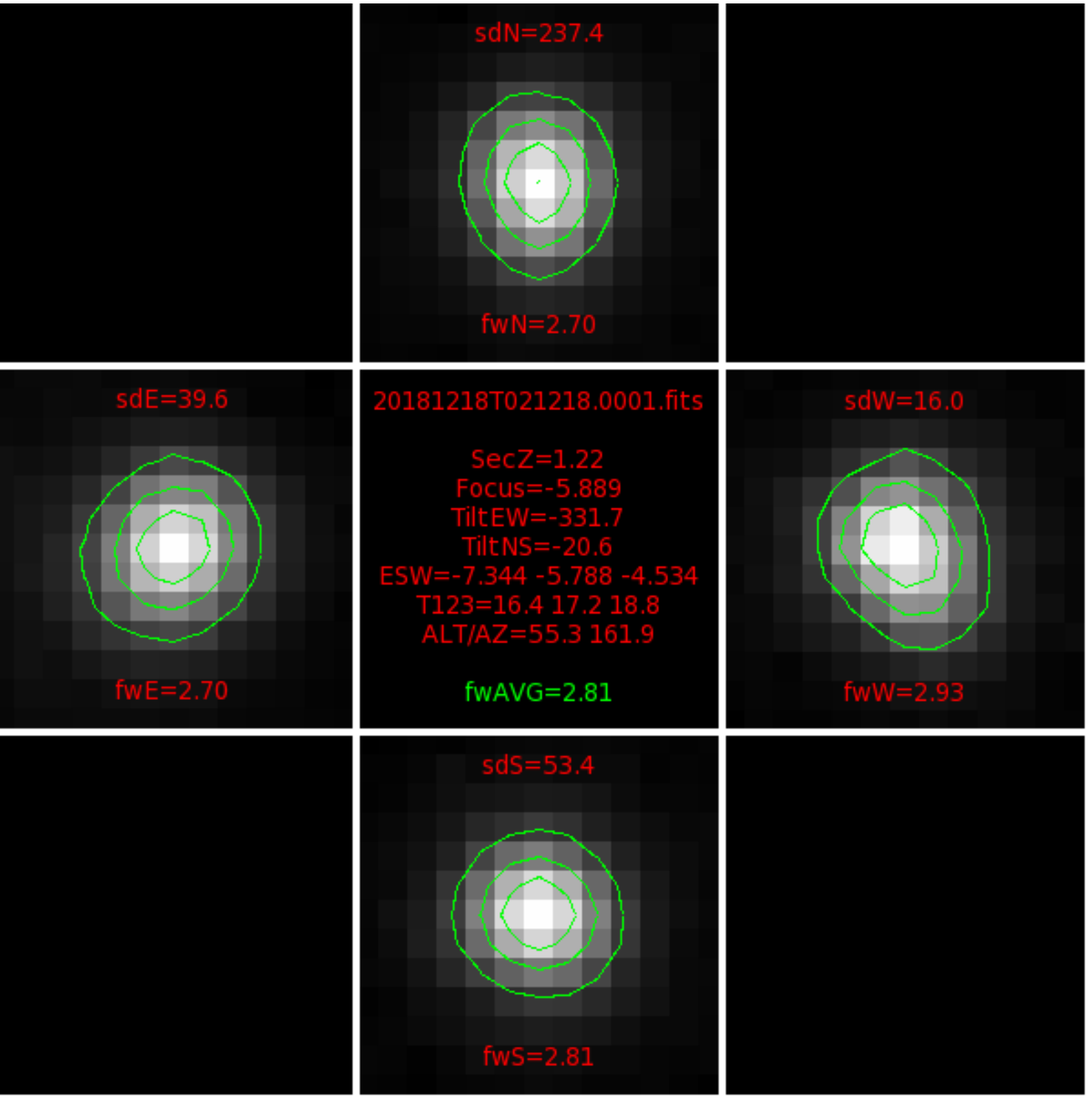
sdN=237.4
fwN=2.70
sdE=39.6
fwE=2.70
20181218T021218.0001.fits
SecZ=1.22
Focus=-5.889
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.344 -5.788 -4.534
T123=16.4 17.2 18.8
ALT/AZ=55.3 161.9
fwAVG=2.81
sdW=16.0
fwW=2.93
sdS=53.4
fwS=2.81
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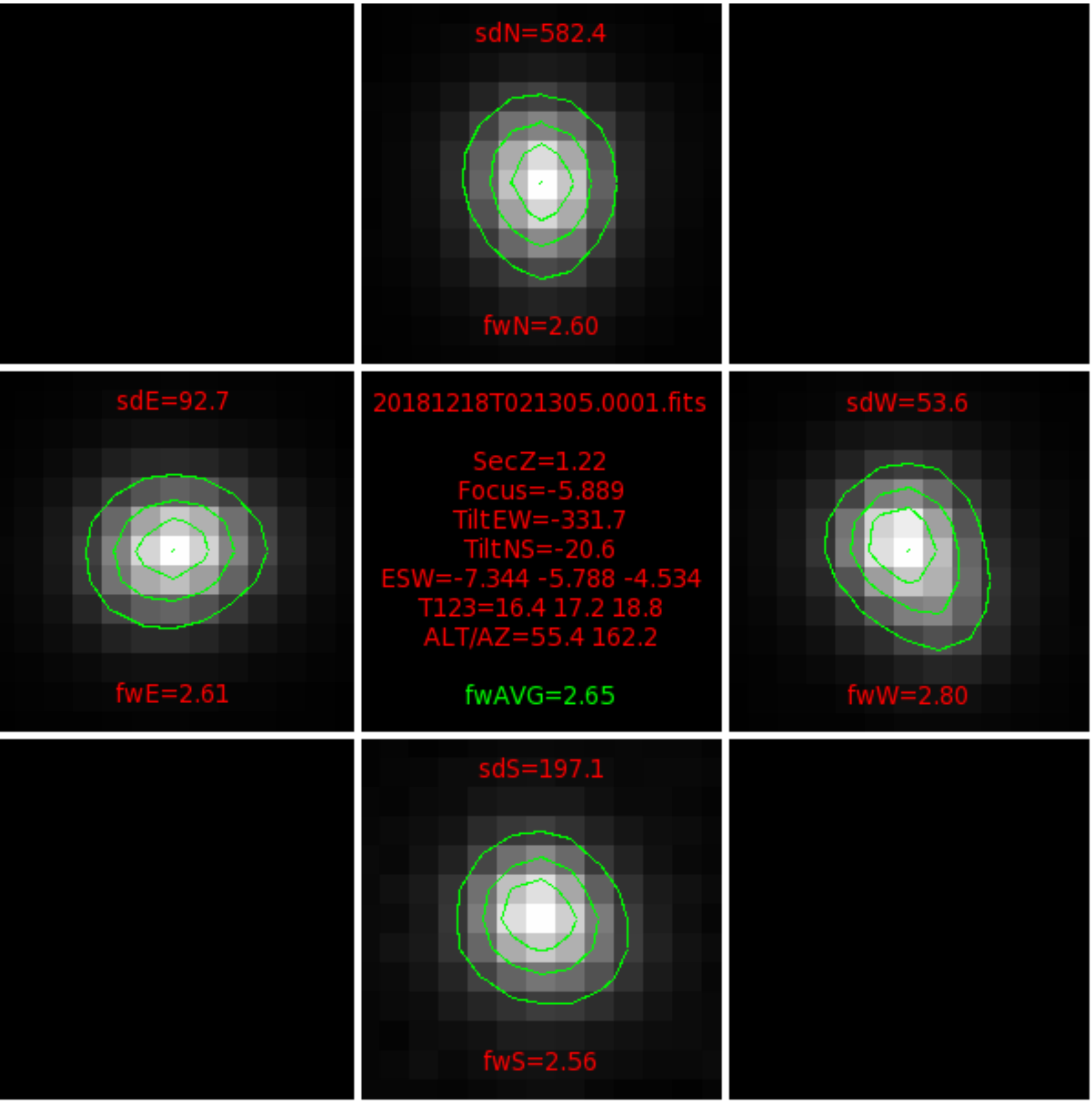
sdN=582.4
fwN=2.60
sdE=92.7
fwE=2.61
20181218T021305.0001.fits
SecZ=1.22
Focus=-5.889
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.344 -5.788 -4.534
T123=16.4 17.2 18.8
ALT/AZ=55.4 162.2
fwAVG=2.65
sdW=53.6
fwW=2.80
sdS=197.1
fwS=2.56
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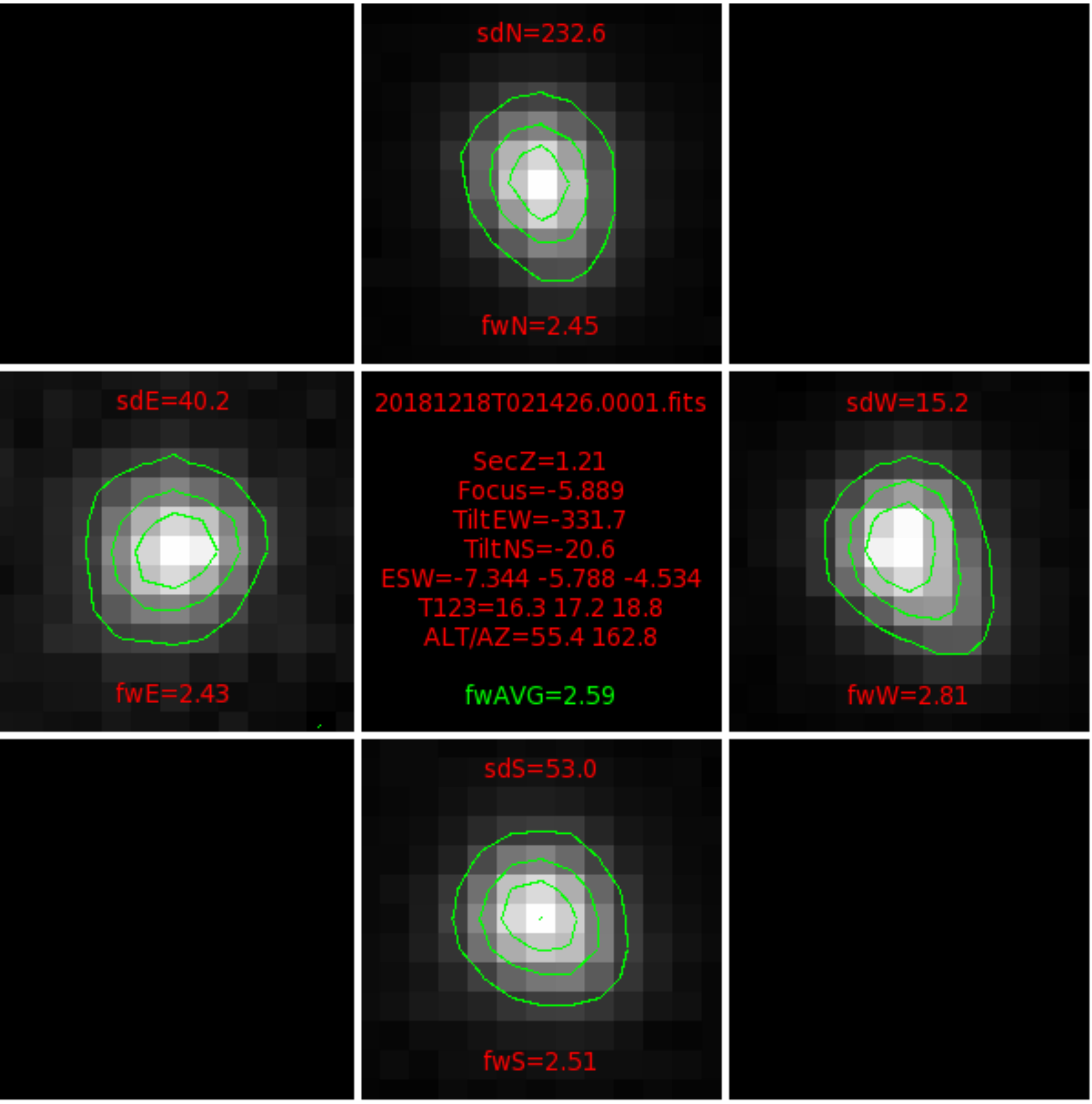
sdN=232.6
fwN=2.45
sdE=40.2
fwE=2.43
20181218T021426.0001.fits
SecZ=1.21
Focus=-5.889
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.344 -5.788 -4.534
T123=16.3 17.2 18.8
ALT/AZ=55.4 162.8
fwAVG=2.59
sdW=15.2
fwW=2.81
sdS=53.0
fwS=2.51
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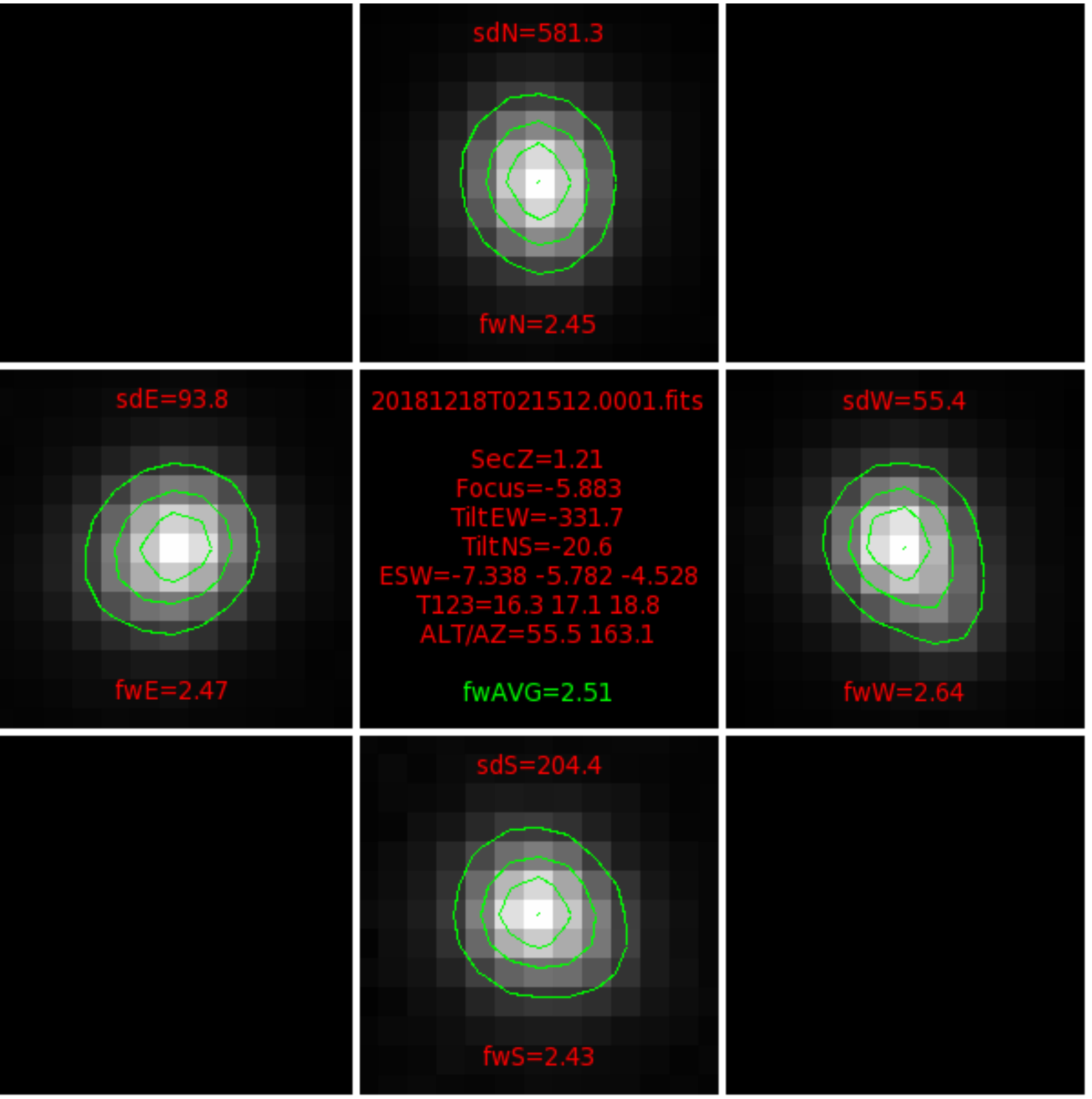
sdN=581.3
fwN=2.45
sdE=93.8
fwE=2.47
20181218T021512.0001.fits
SecZ=1.21
Focus=-5.883
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.338 -5.782 -4.528
T123=16.3 17.1 18.8
ALT/AZ=55.5 163.1
fwAVG=2.51
sdW=55.4
fwW=2.64
sdS=204.4
fwS=2.43
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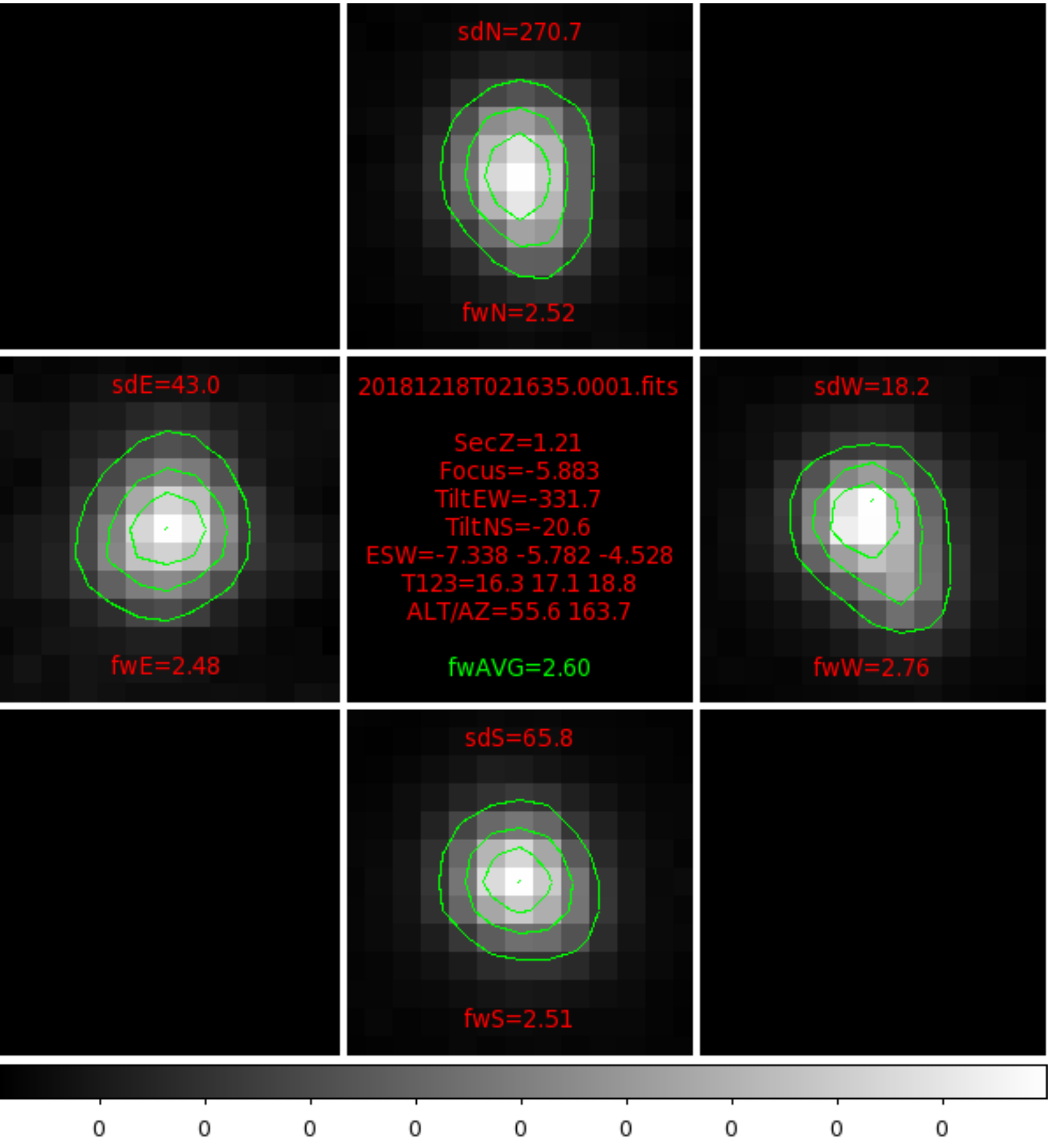
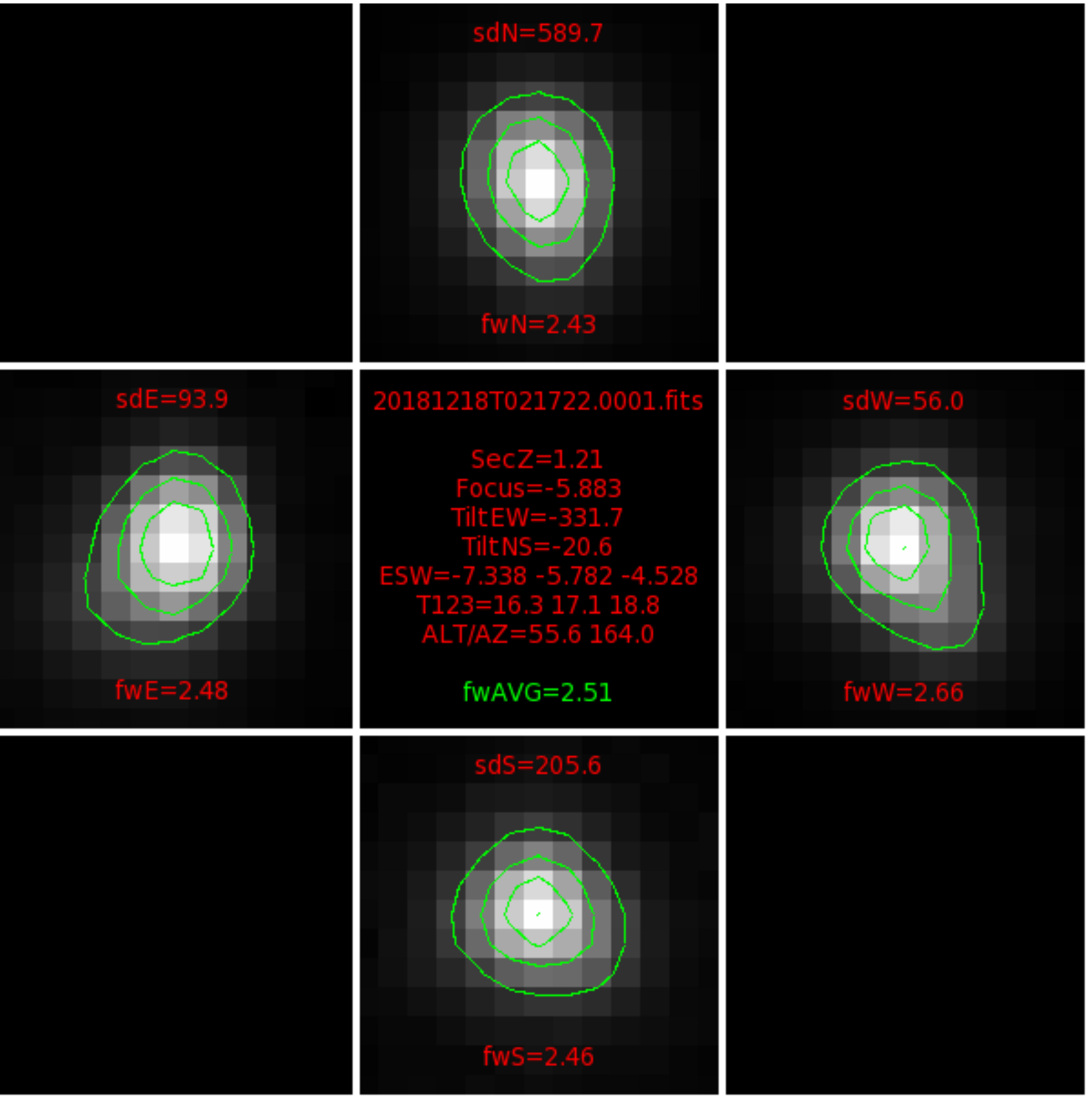

sdN=270.7
fwN=2.52
sdE=43.0
fwE=2.48
20181218T021635.0001.fits
SecZ=1.21
Focus=-5.883
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.338 -5.782 -4.528
T123=16.3 17.1 18.8
ALT/AZ=55.6 163.7
fwAVG=2.60
sdW=18.2
fwW=2.76
sdS=65.8
fwS=2.51
0 0 0 0 0 0 0 0 0


sdN=589.7
fwN=2.43
sdE=93.9
fwE=2.48
20181218T021722.0001.fits
SecZ=1.21
Focus=-5.883
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.338 -5.782 -4.528
T123=16.3 17.1 18.8
ALT/AZ=55.6 164.0
fwAVG=2.51
sdW=56.0
fwW=2.66
sdS=205.6
fwS=2.46
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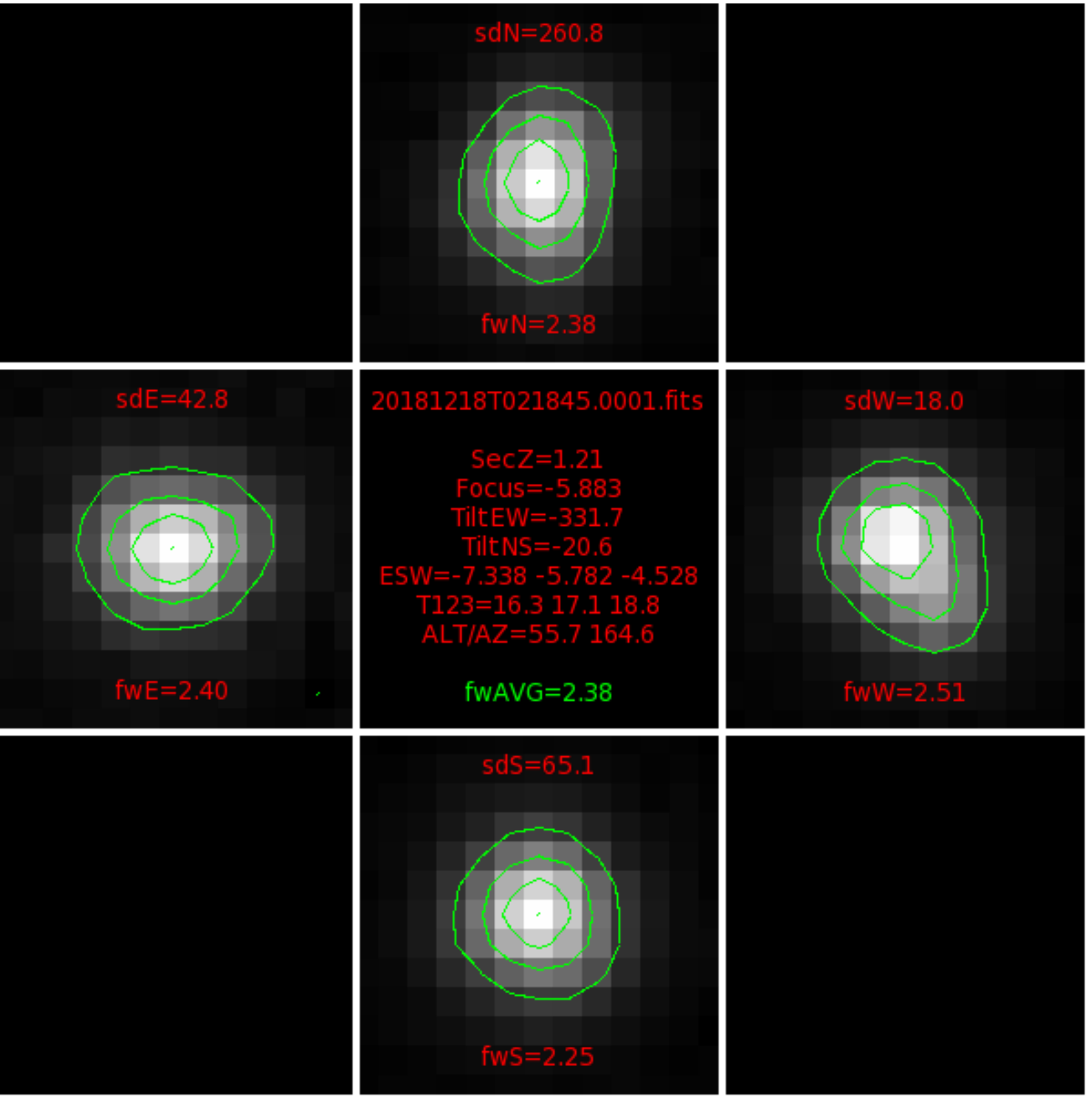
sdN=260.8
fwN=2.38
sdE=42.8
fwE=2.40
20181218T021845.0001.fits
SecZ=1.21
Focus=-5.883
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.338 -5.782 -4.528
T123=16.3 17.1 18.8
ALT/AZ=55.7 164.6
fwAVG=2.38
sdW=18.0
fwW=2.51
sdS=65.1
fwS=2.25
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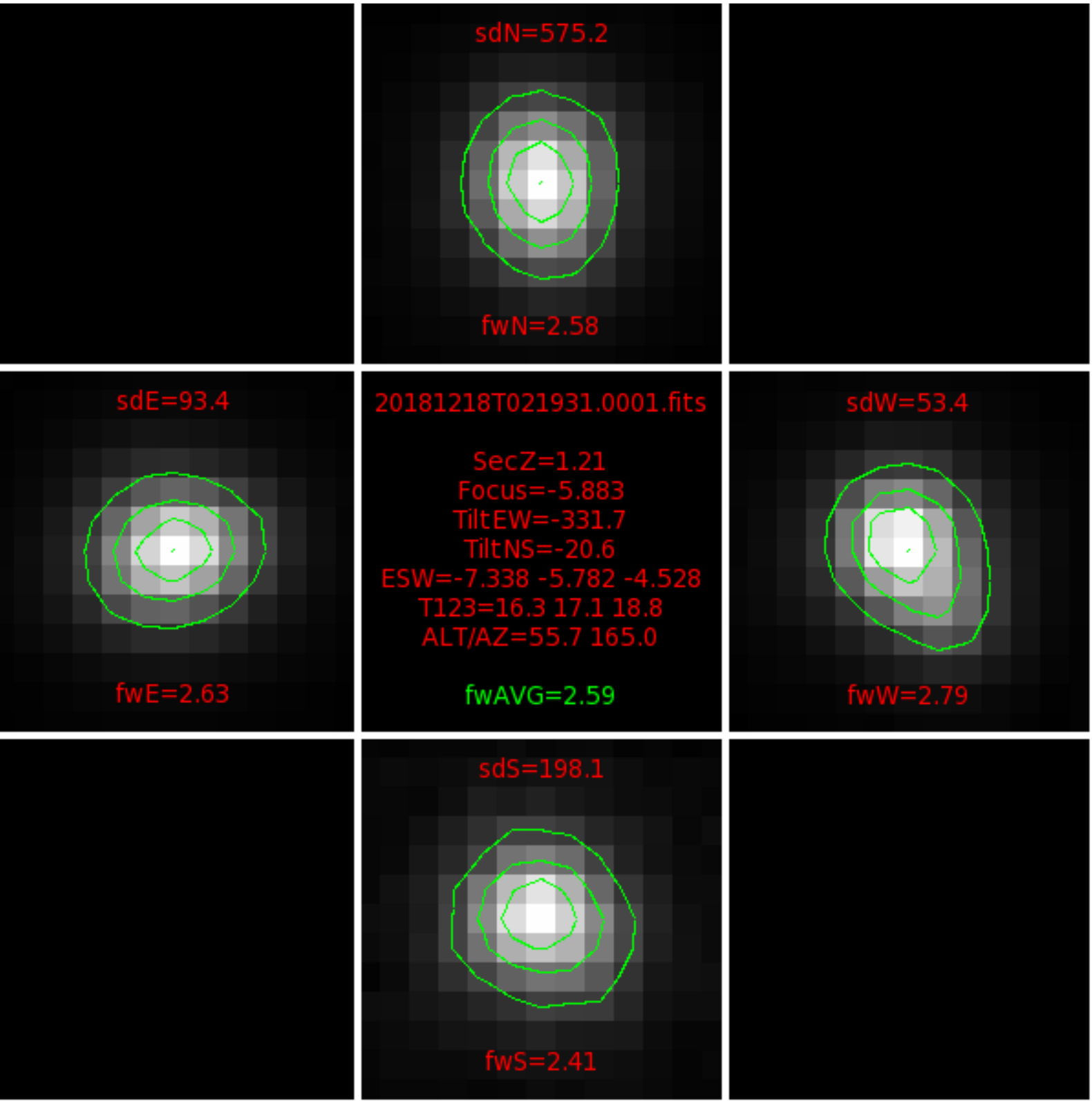
sdN=575.2
fwN=2.58
sdE=93.4
fwE=2.63
20181218T021931.0001.fits
SecZ=1.21
Focus=-5.883
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.338 -5.782 -4.528
T123=16.3 17.1 18.8
ALT/AZ=55.7 165.0
fwAVG=2.59
sdW=53.4
fwW=2.79
sdS=198.1
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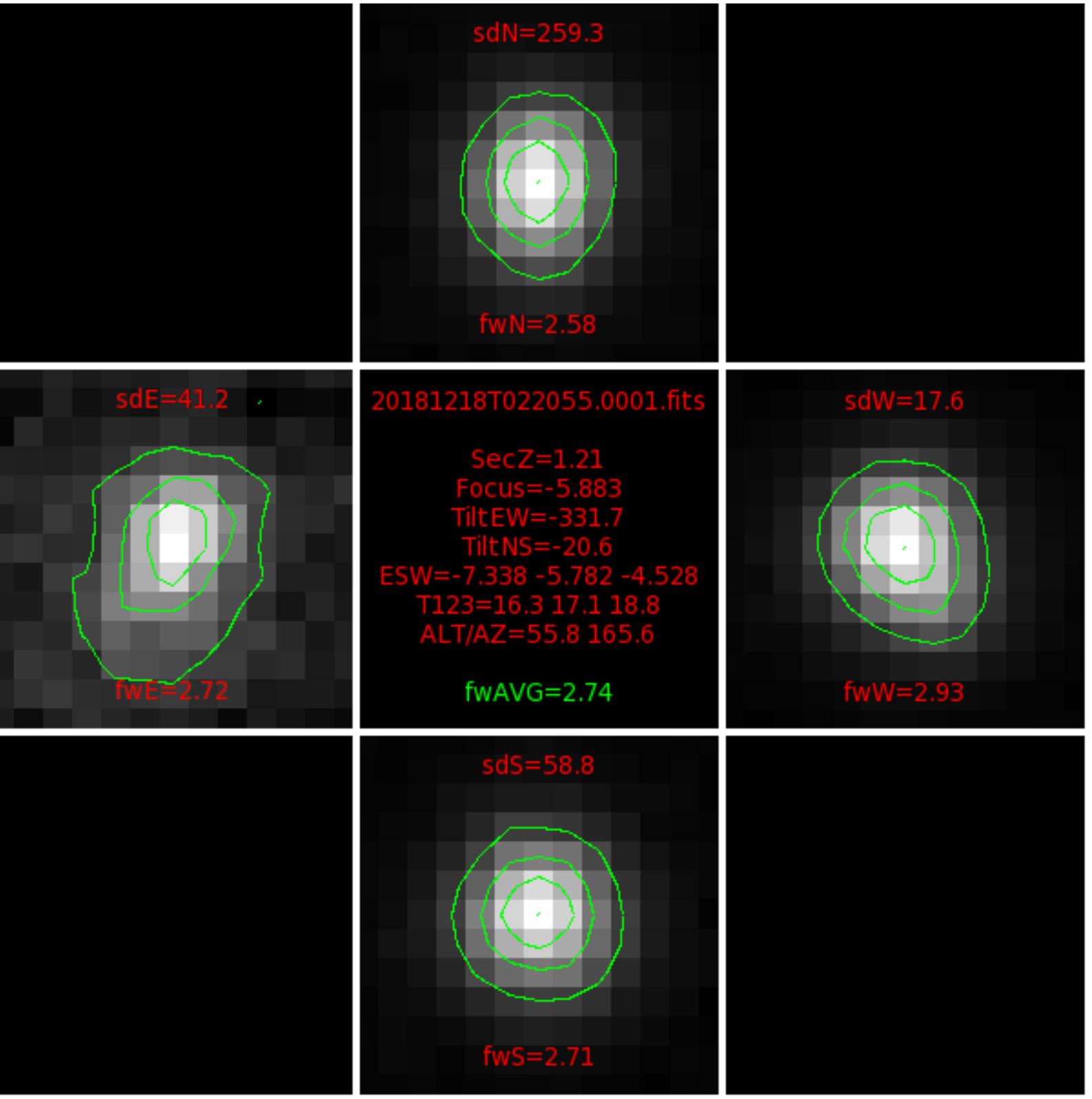
sdN=259.3
fwN=2.58
sdE=41.2
fwE=2.72
20181218T022055.0001.fits
SecZ=1.21
Focus=-5.883
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.338 -5.782 -4.528
T123=16.3 17.1 18.8
ALT/AZ=55.8 165.6
fwAVG=2.74
sdW=17.6
fwW=2.93
sdS=58.8
fwS=2.71
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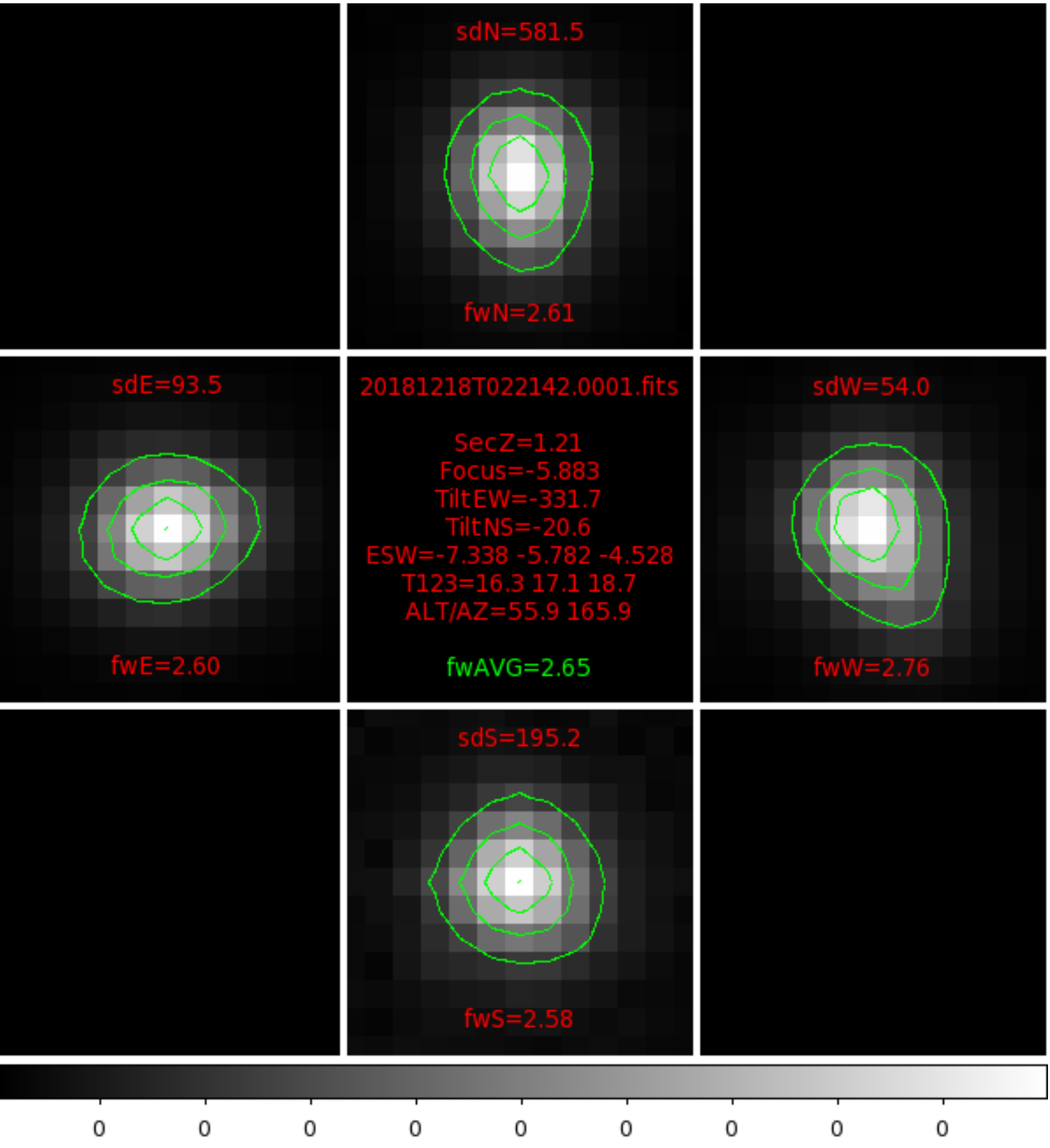
sdN=581.5
fwN=2.61
sdE=93.5
fwE=2.60
20181218T022142.0001.fits
SecZ=1.21
Focus=-5.883
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.338 -5.782 -4.528
T123=16.3 17.1 18.7
ALT/AZ=55.9 165.9
fwAVG=2.65
sdW=54.0
fwW=2.76
sdS=195.2
fwS=2.58
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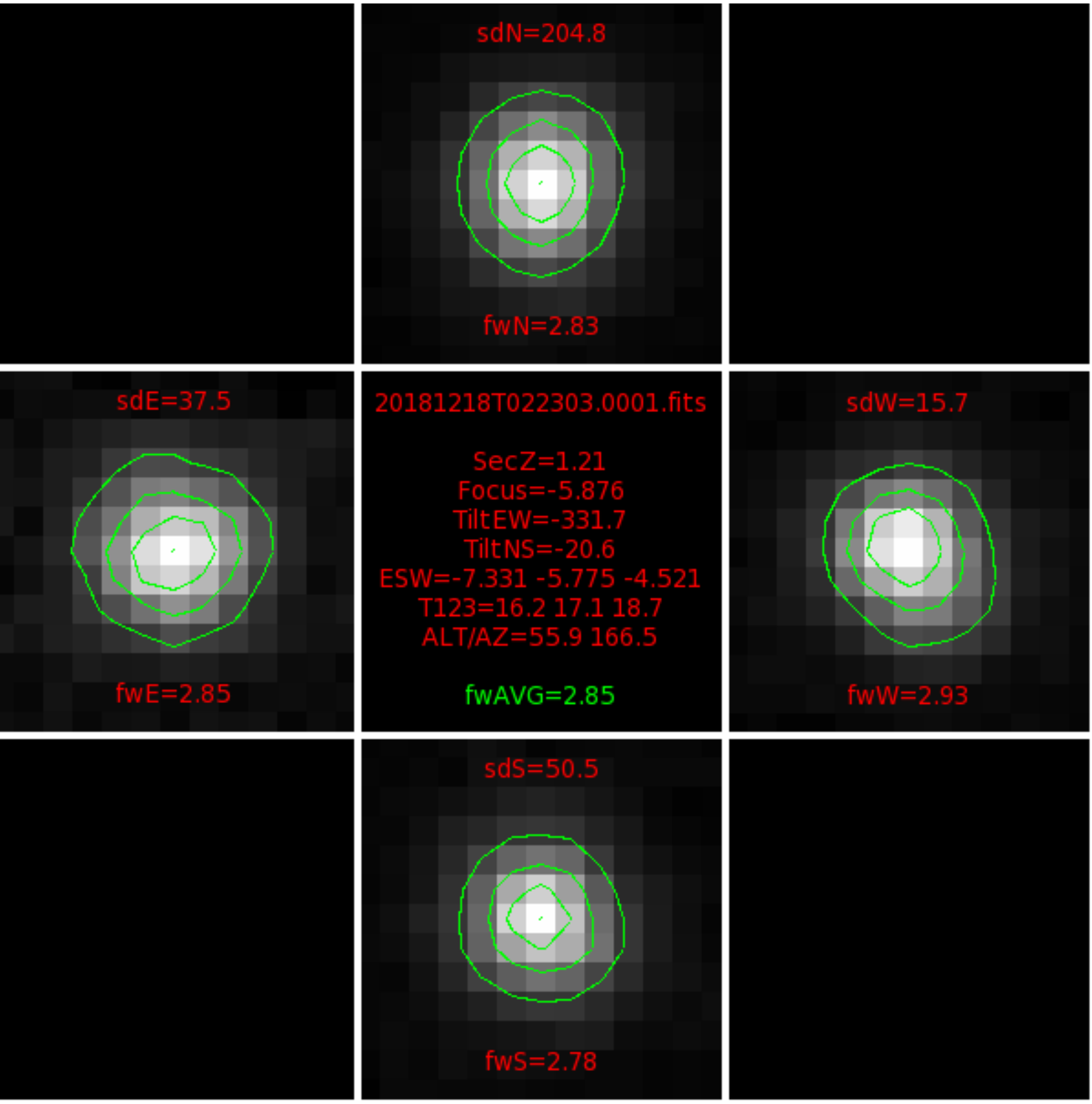
sdN=204.8
fwN=2.83
sdE=37.5
fwE=2.85
20181218T022303.0001.fits
SecZ=1.21
Focus=-5.876
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.331 -5.775 -4.521
T123=16.2 17.1 18.7
ALT/AZ=55.9 166.5
fwAVG=2.85
sdW=15.7
fwW=2.93
sdS=50.5
fwS=2.78
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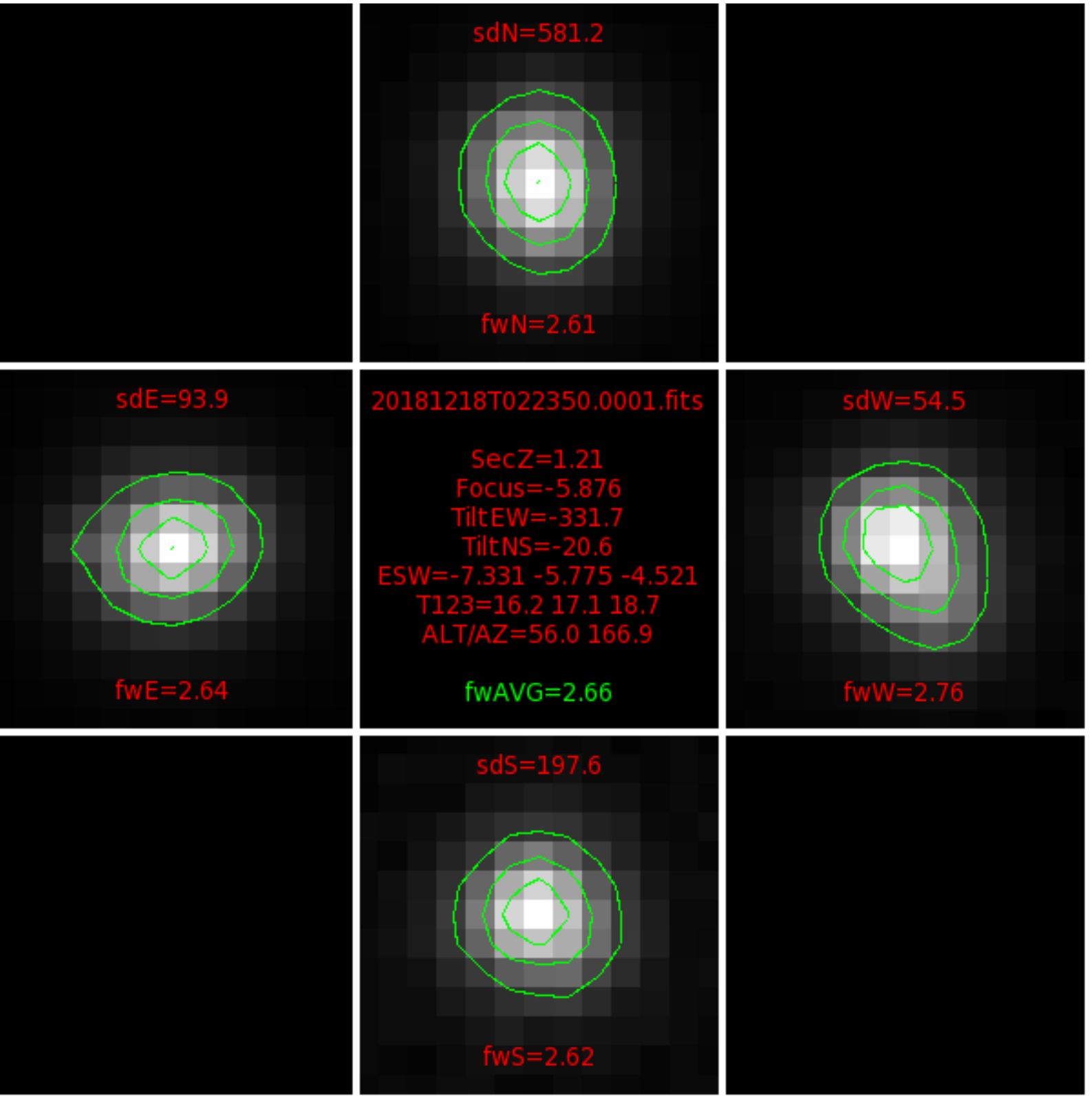
sdN=581.2
fwN=2.61
sdE=93.9
fwE=2.64
20181218T022350.0001.fits
SecZ=1.21
Focus=-5.876
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.331 -5.775 -4.521
T123=16.2 17.1 18.7
ALT/AZ=56.0 166.9
fwAVG=2.66
sdW=54.5
fwW=2.76
sdS=197.6
fwS=2.62
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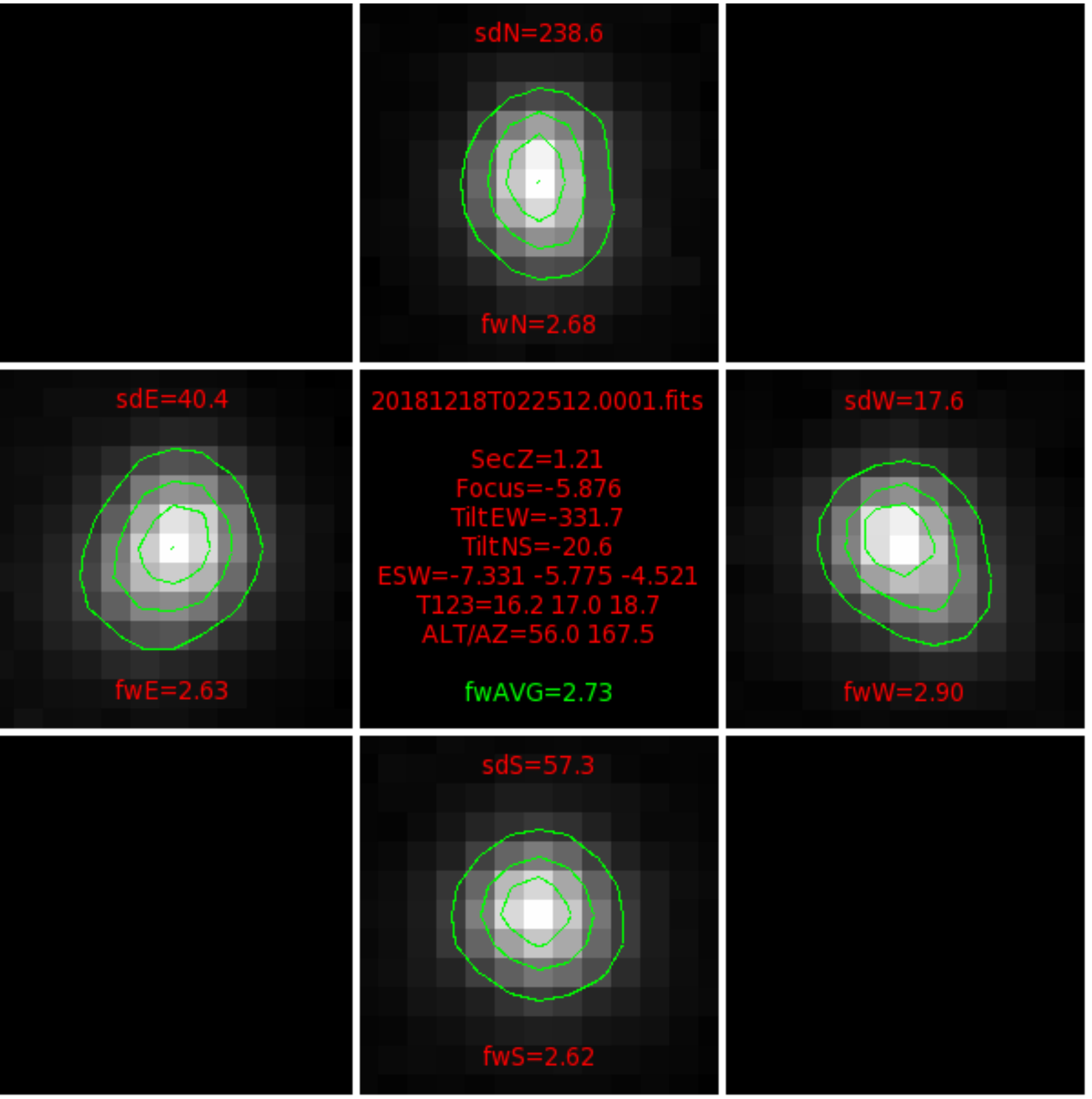
sdN=238.6
fwN=2.68
sdE=40.4
fwE=2.63
20181218T022512.0001.fits
SecZ=1.21
Focus=-5.876
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.331 -5.775 -4.521
T123=16.2 17.0 18.7
ALT/AZ=56.0 167.5
fwAVG=2.73
sdW=17.6
fwW=2.90
sdS=57.3
fwS=2.62
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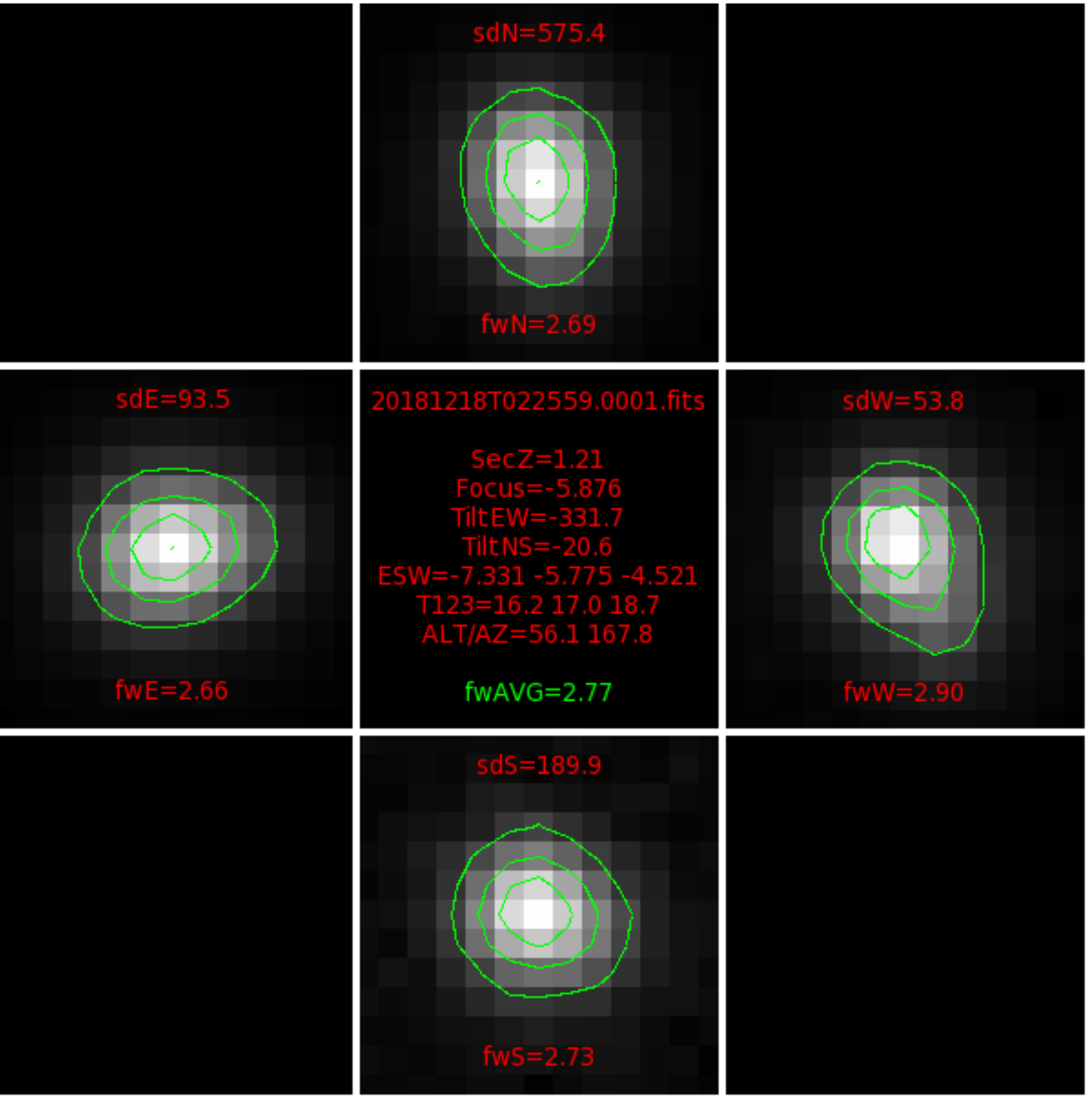
sdN=575.4
fwN=2.69
sdE=93.5
fwE=2.66
20181218T022559.0001.fits
SecZ=1.21
Focus=-5.876
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.331 -5.775 -4.521
T123=16.2 17.0 18.7
ALT/AZ=56.1 167.8
fwAVG=2.77
sdW=53.8
fwW=2.90
sdS=189.9
fwS=2.73
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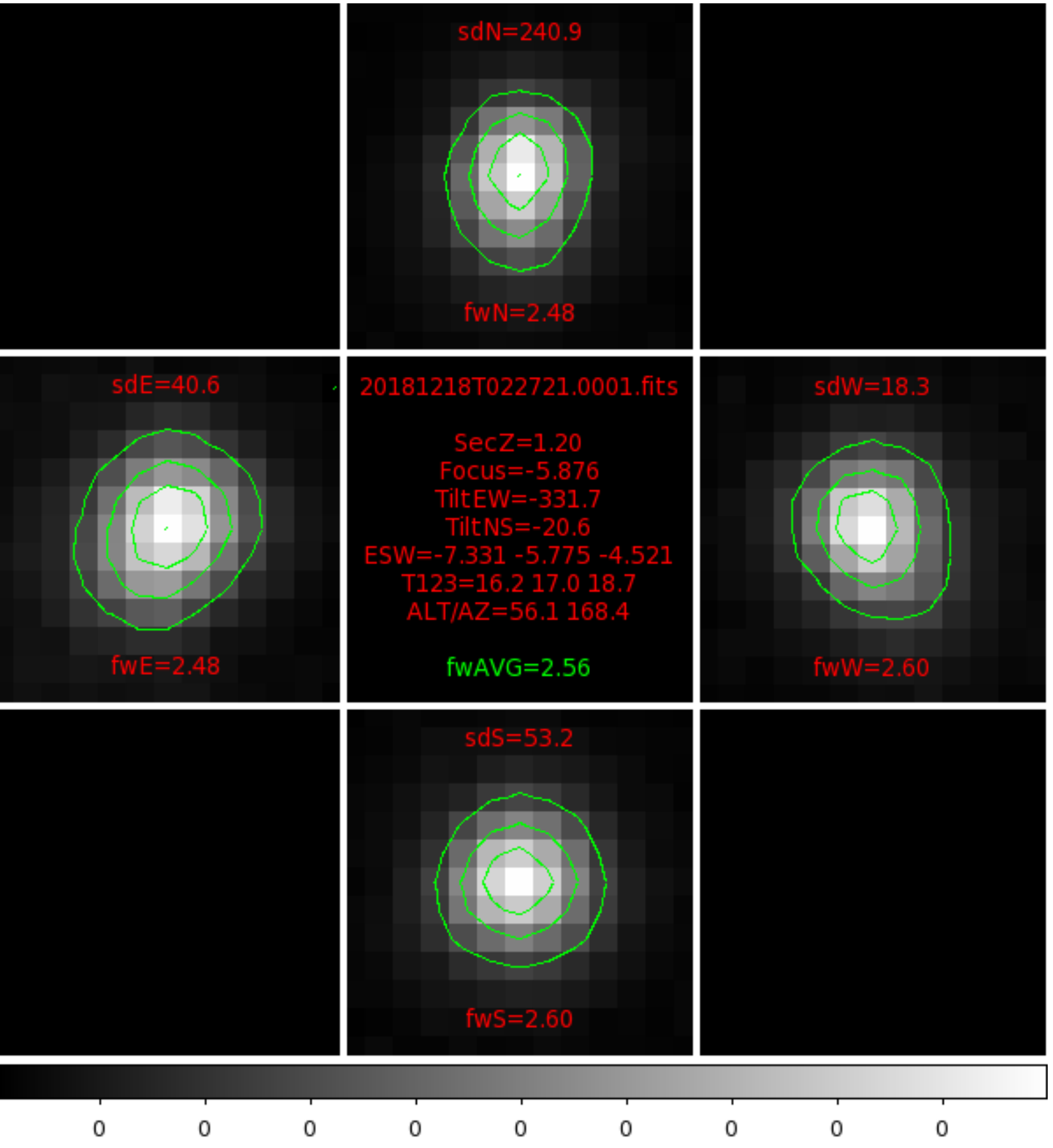
sdN=240.9
fwN=2.48
sdE=40.6
fwE=2.48
20181218T022721.0001.fits
SecZ=1.20
Focus=-5.876
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.331 -5.775 -4.521
T123=16.2 17.0 18.7
ALT/AZ=56.1 168.4
fwAVG=2.56
sdW=18.3
fwW=2.60
sdS=53.2
fwS=2.60
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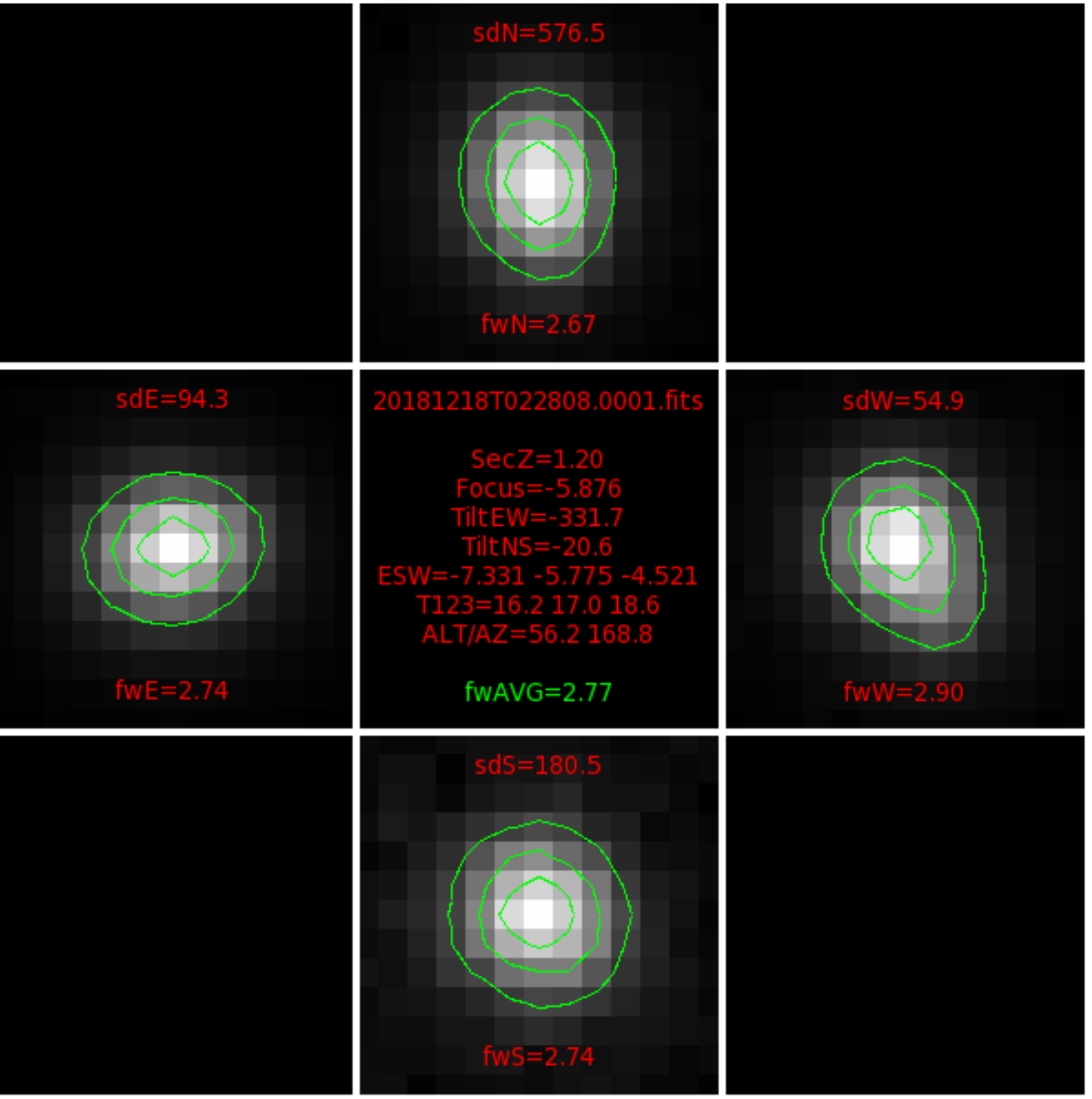
sdN=576.5
fwN=2.67
sdE=94.3
fwE=2.74
20181218T022808.0001.fits
SecZ=1.20
Focus=-5.876
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.331 -5.775 -4.521
T123=16.2 17.0 18.6
ALT/AZ=56.2 168.8
fwAVG=2.77
sdW=54.9
fwW=2.90
sdS=180.5
fwS=2.74
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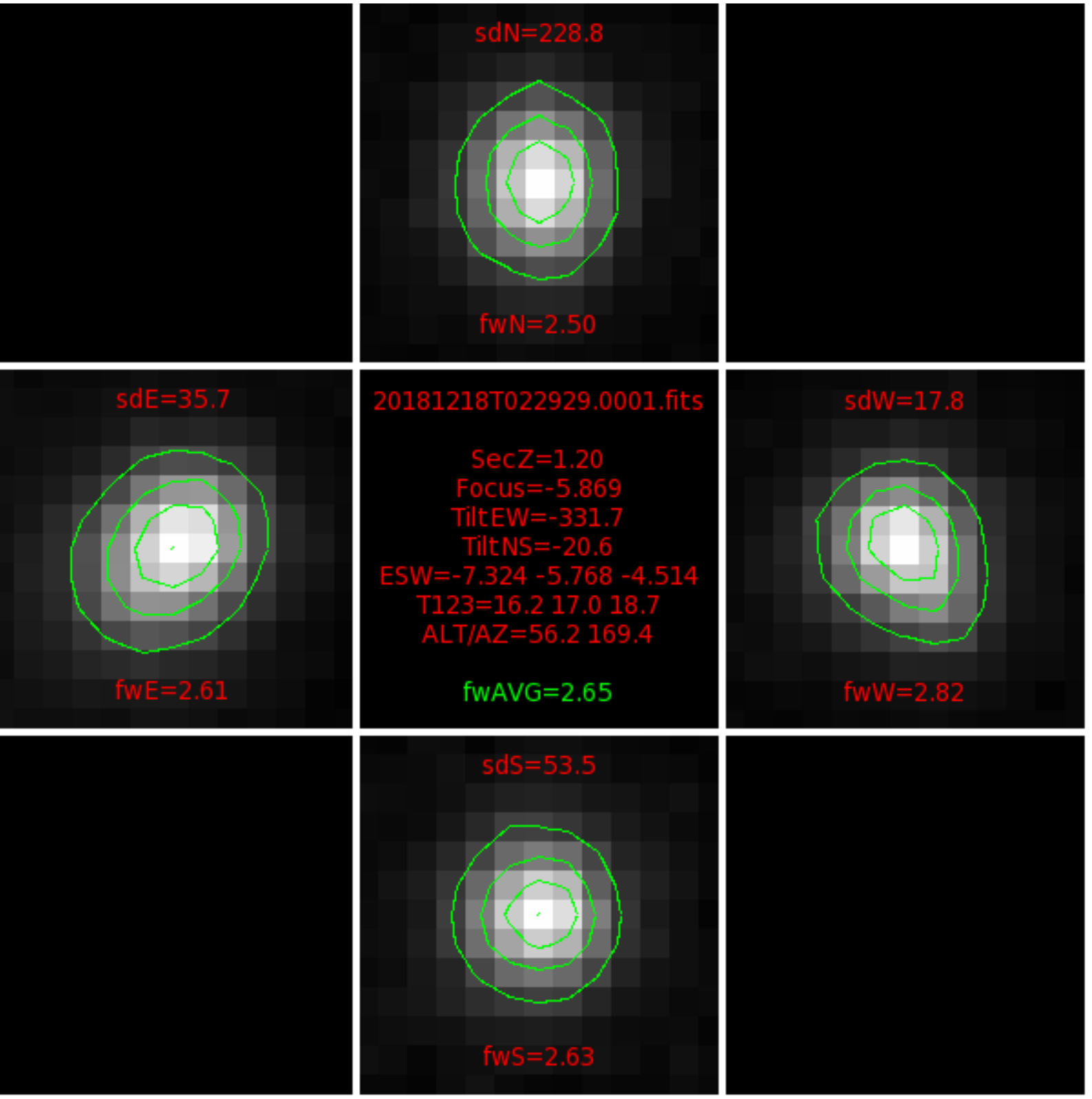
sdN=228.8
fwN=2.50
sdE=35.7
fwE=2.61
20181218T022929.0001.fits
SecZ=1.20
Focus=-5.869
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.324 -5.768 -4.514
T123=16.2 17.0 18.7
ALT/AZ=56.2 169.4
fwAVG=2.65
sdW=17.8
fwW=2.82
sdS=53.5
fwS=2.63
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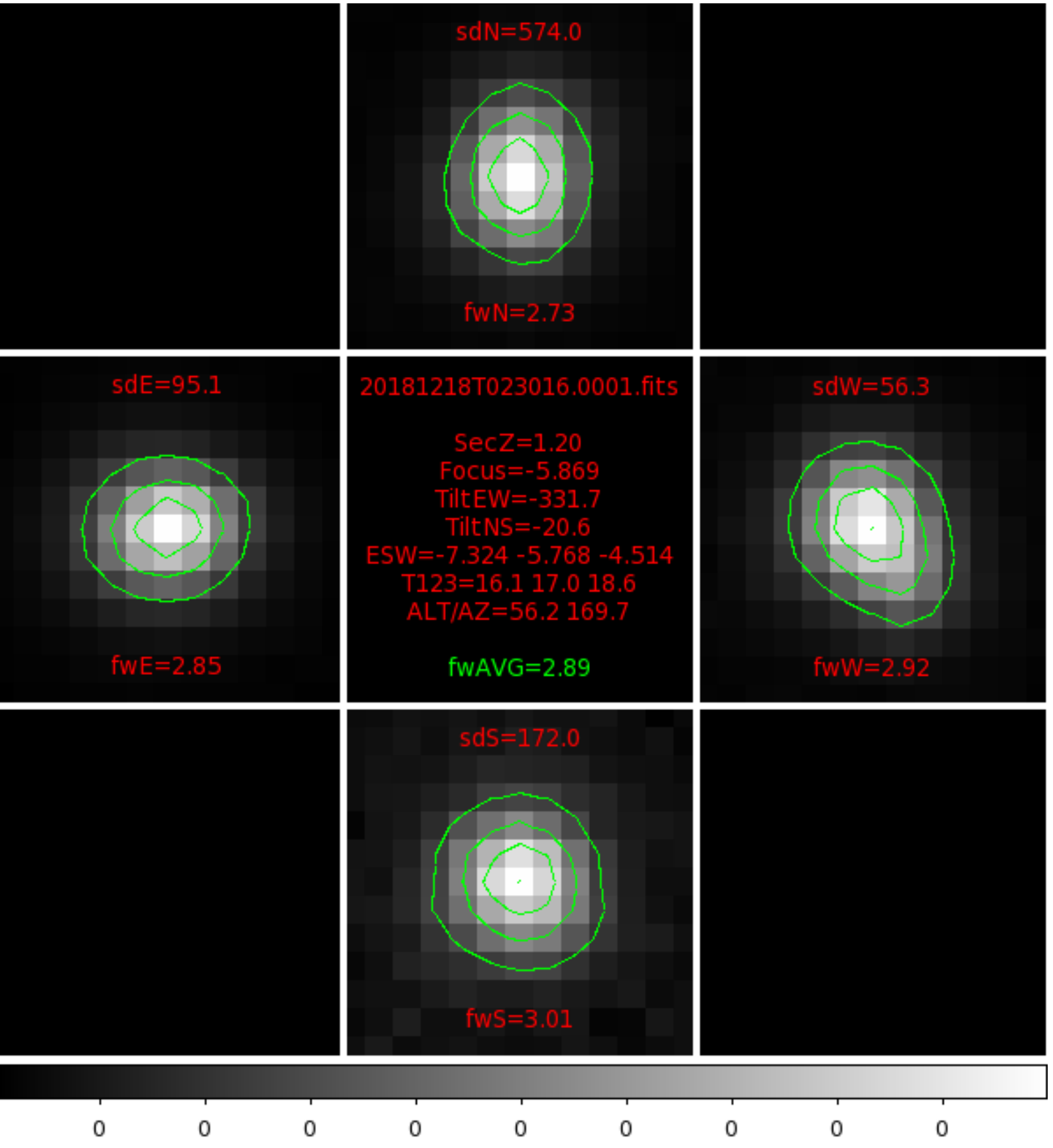
sdN=574.0
fwN=2.73
sdE=95.1
fwE=2.85
20181218T023016.0001.fits
SecZ=1.20
Focus=-5.869
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.324 -5.768 -4.514
T123=16.1 17.0 18.6
ALT/AZ=56.2 169.7
fwAVG=2.89
sdW=56.3
fwW=2.92
sdS=172.0
fwS=3.01
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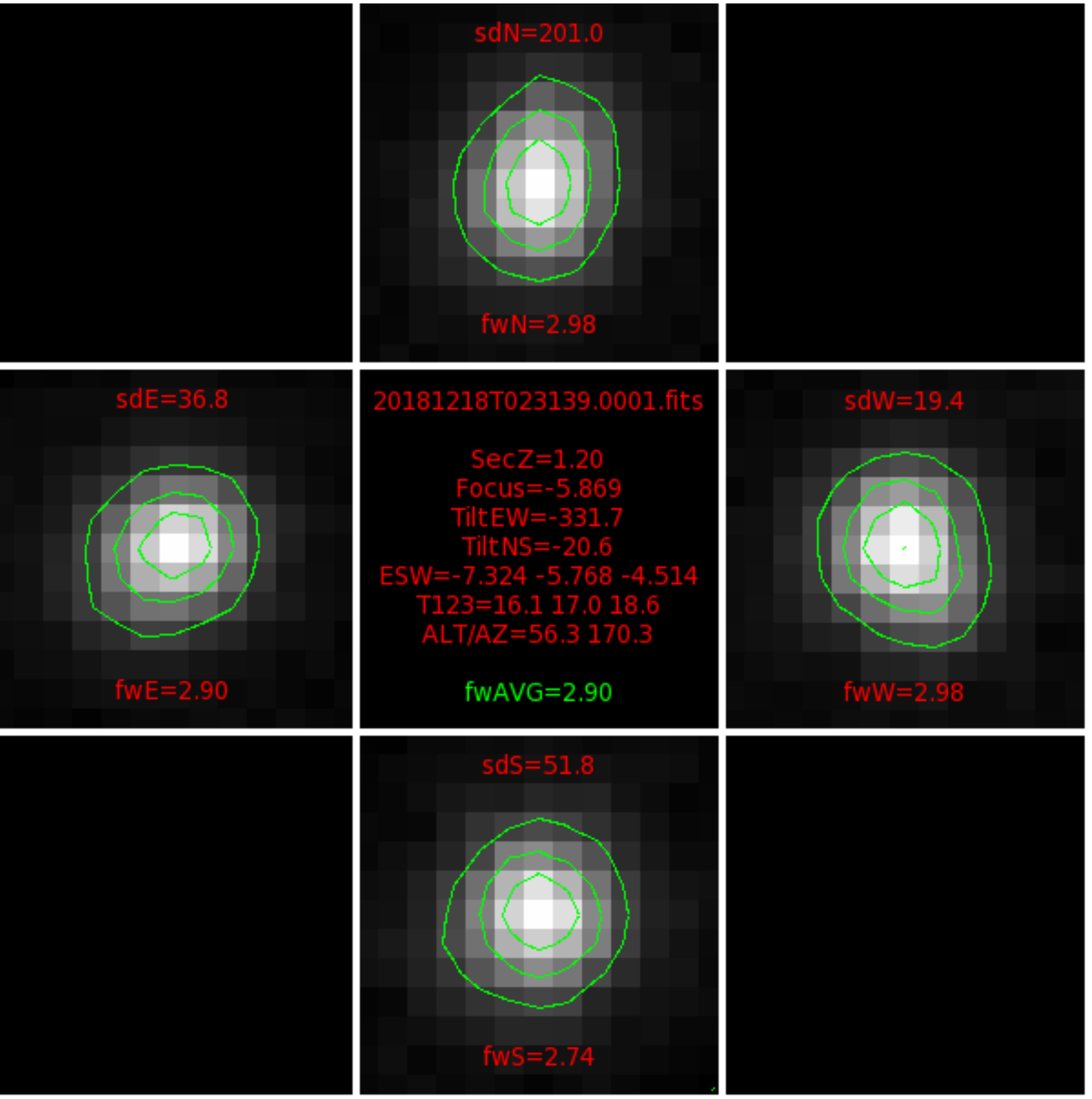
sdN=201.0
fwN=2.98
sdE=36.8
fwE=2.90
20181218T023139.0001.fits
SecZ=1.20
Focus=-5.869
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.324 -5.768 -4.514
T123=16.1 17.0 18.6
ALT/AZ=56.3 170.3
fwAVG=2.90
sdW=19.4
fwW=2.98
sdS=51.8
fwS=2.74
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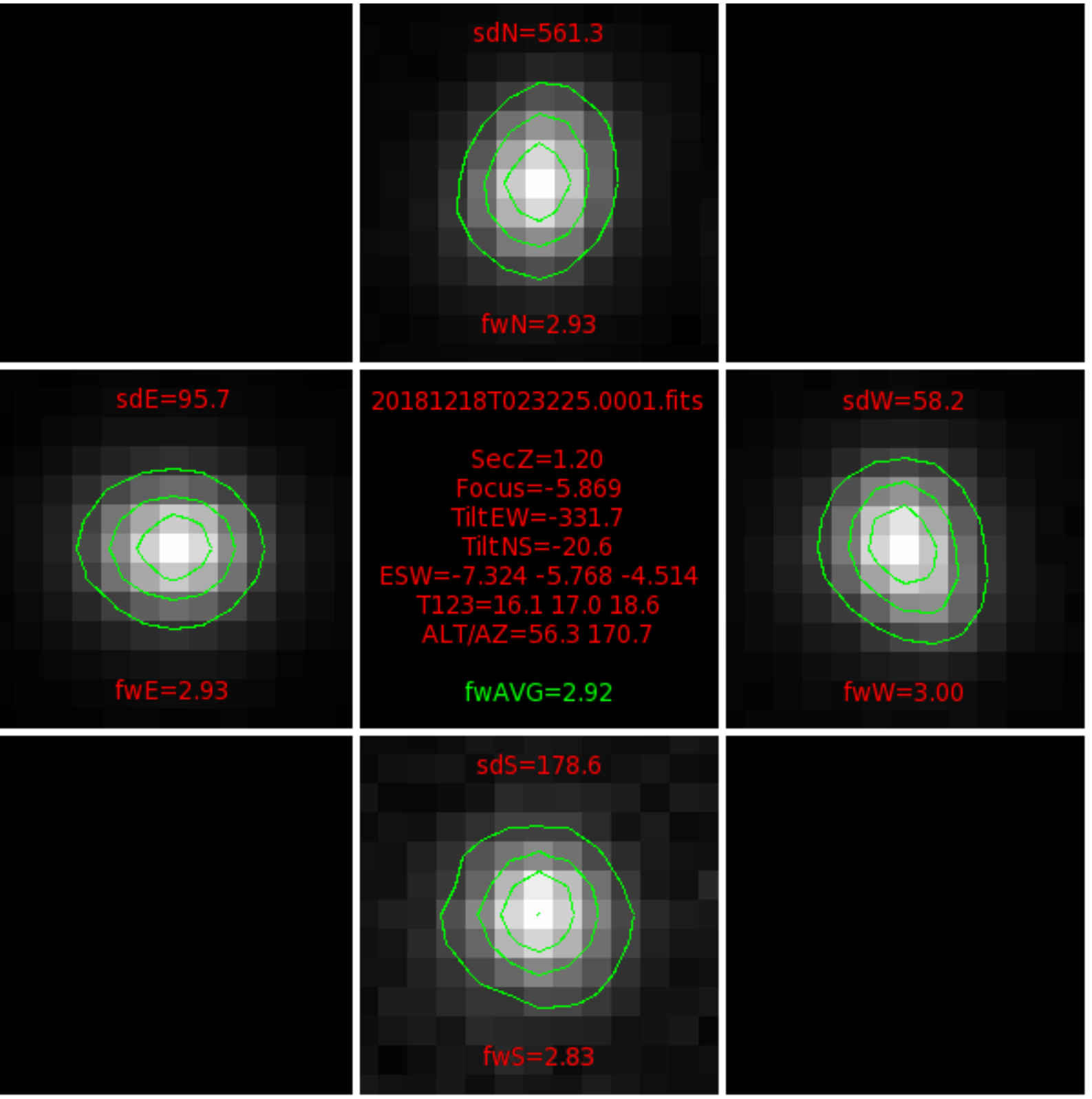
sdN=561.3
fwN=2.93
sdE=95.7
fwE=2.93
20181218T023225.0001.fits
SecZ=1.20
Focus=-5.869
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.324 -5.768 -4.514
T123=16.1 17.0 18.6
ALT/AZ=56.3 170.7
fwAVG=2.92
sdW=58.2
fwW=3.00
sdS=178.6
fwS=2.83
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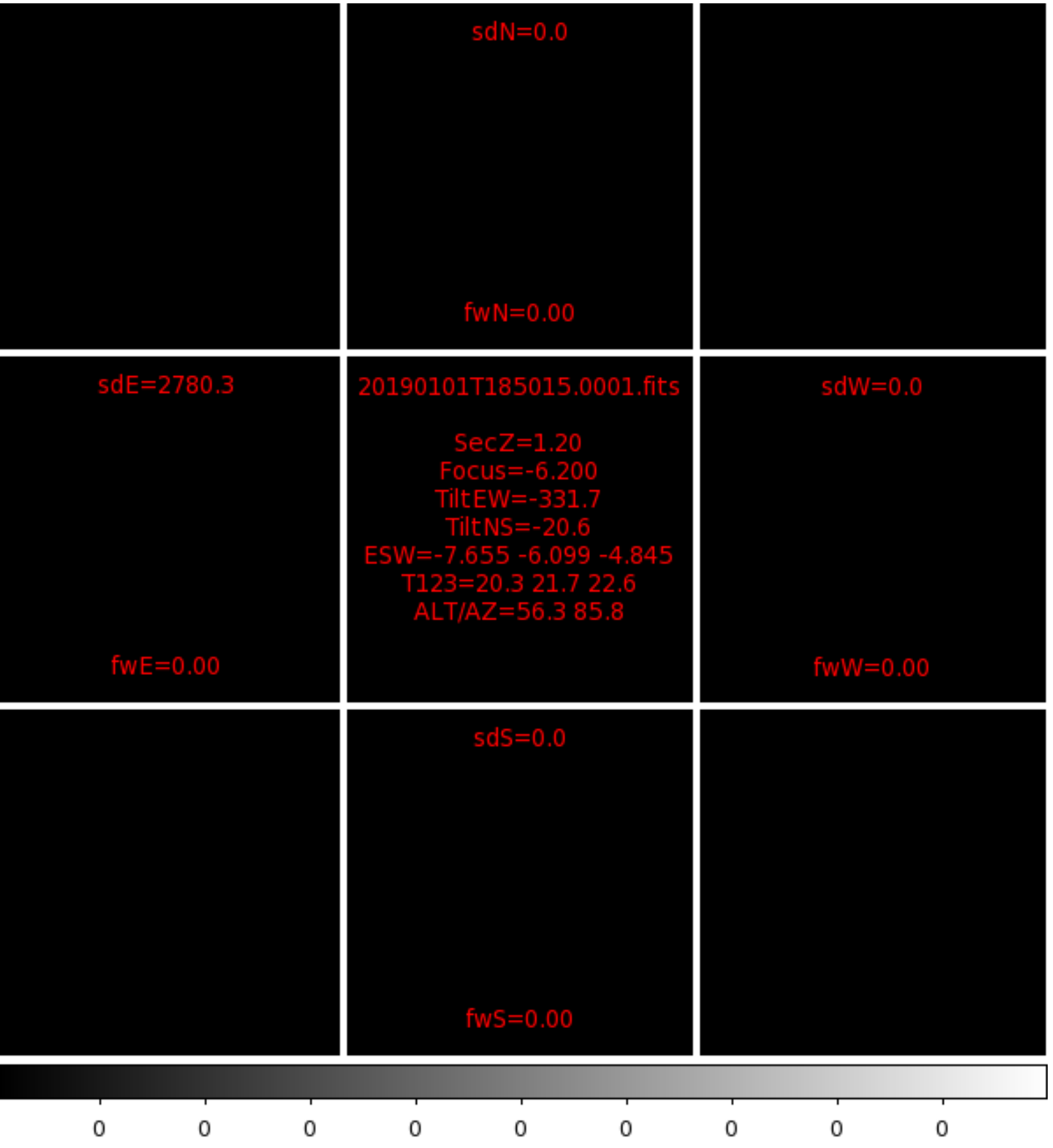
sdN=0.0
fwN=0.00
sdE=2780.3
fwE=0.00
20190101T185015.0001.fits
SecZ=1.20
Focus=-6.200
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.655 -6.099 -4.845
T123=20.3 21.7 22.6
ALT/AZ=56.3 85.8
sdW=0.0
fwW=0.00
sdS=0.0
fwS=0.00
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sdN=1783.2
fwN=2.36
sdE=3527.1
fwE=0.00
20190101T185244.0001.fits
SecZ=1.20
Focus=-6.150
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.605 -6.049 -4.795
T123=20.1 21.6 22.6
ALT/AZ=56.8 86.1
sdW=1861.2
fwW=0.00
sdS=4975.3
fwS=0.00
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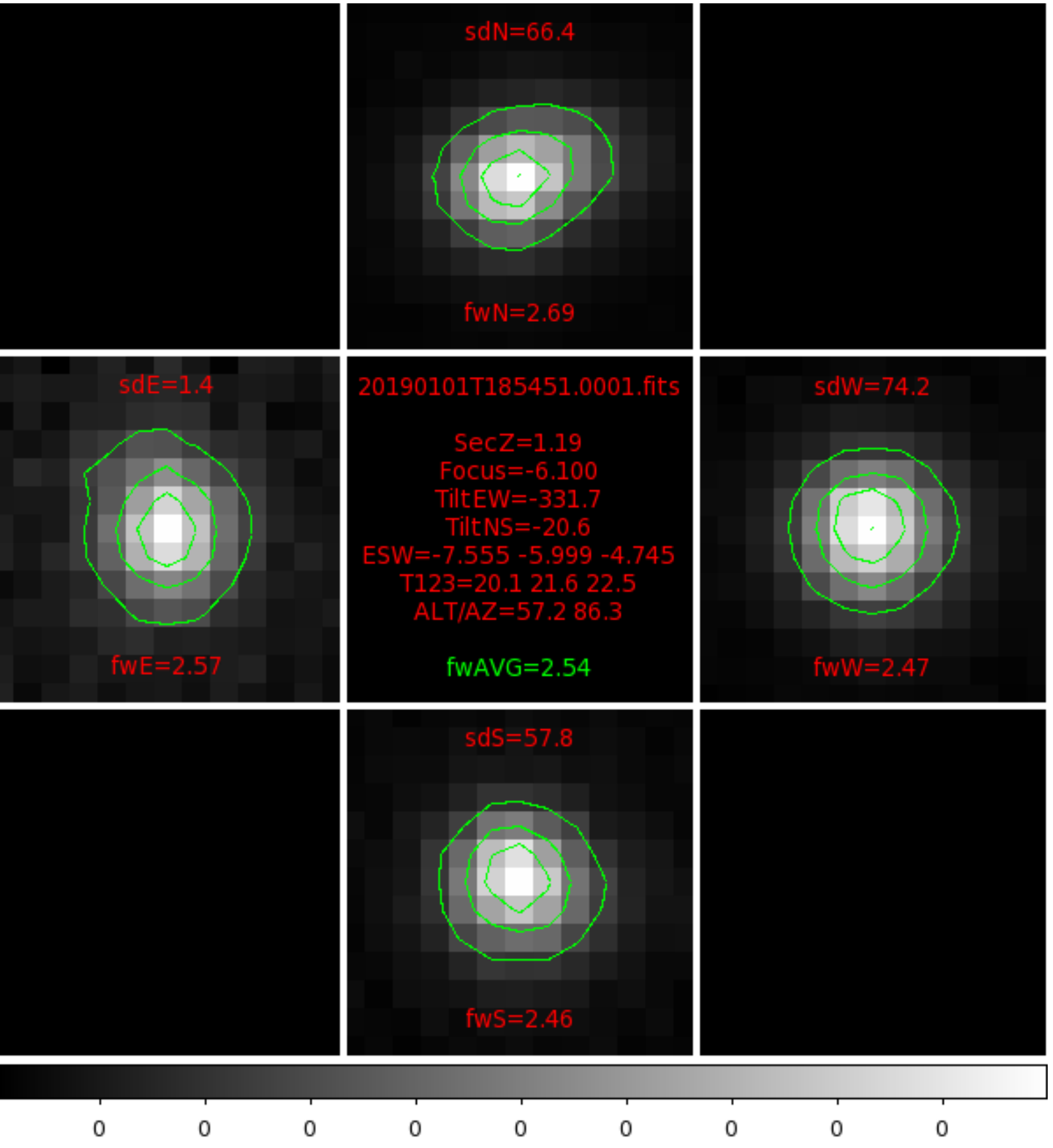
sdN=66.4
fwN=2.69
sdE=1.4
fwE=2.57
20190101T185451.0001.fits
SecZ=1.19
Focus=-6.100
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.555 -5.999 -4.745
T123=20.1 21.6 22.5
ALT/AZ=57.2 86.3
fwAVG=2.54
sdW=74.2
fwW=2.47
sdS=57.8
fwS=2.46
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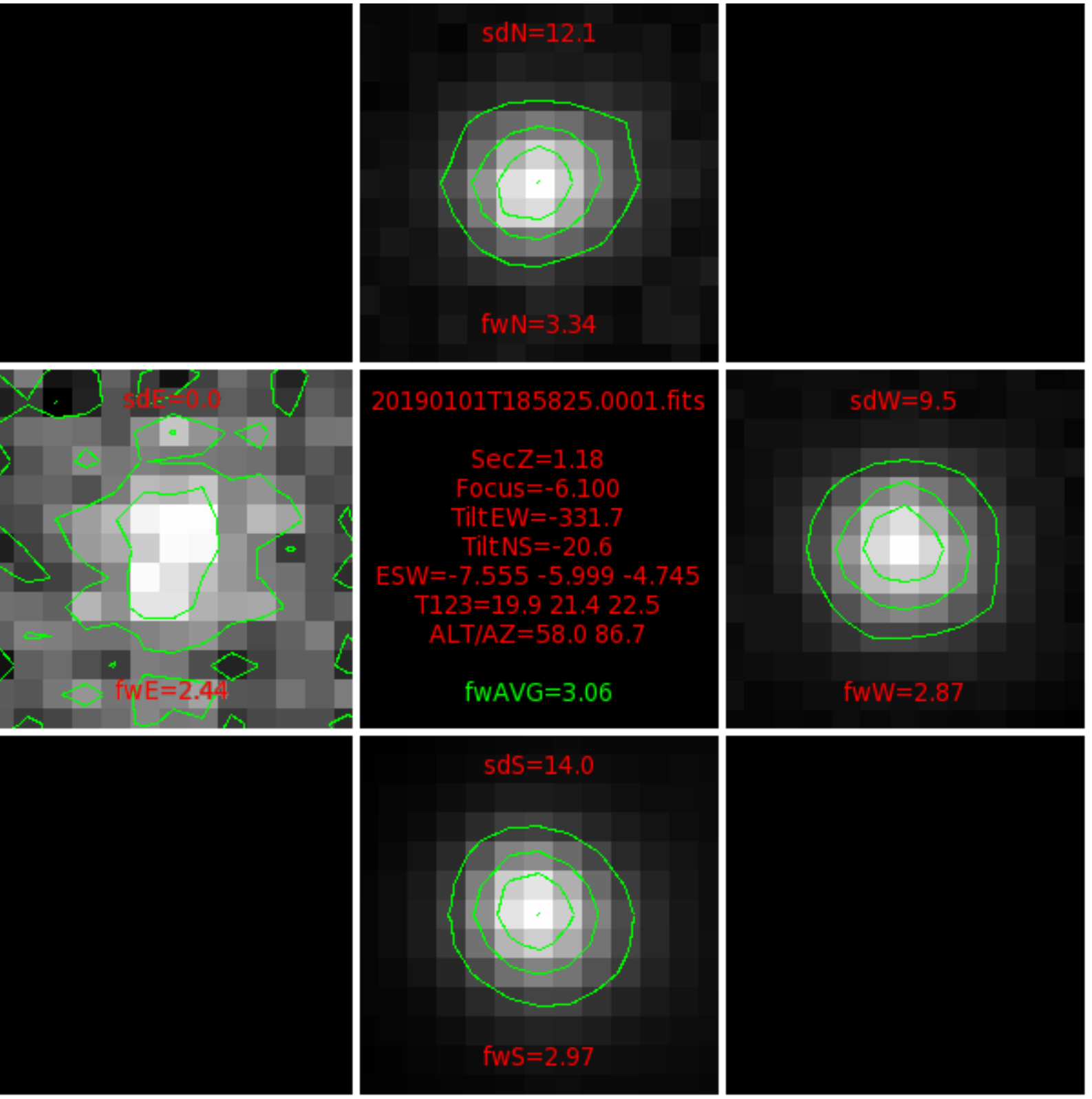
sdN=12.1
fwN=3.34
sdE=0.0
fwE=2.44
20190101T185825.0001.fits
SecZ=1.18
Focus=-6.100
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.555 -5.999 -4.745
T123=19.9 21.4 22.5
ALT/AZ=58.0 86.7
fwAVG=3.06
sdW=9.5
fwW=2.87
sdS=14.0
fwS=2.97
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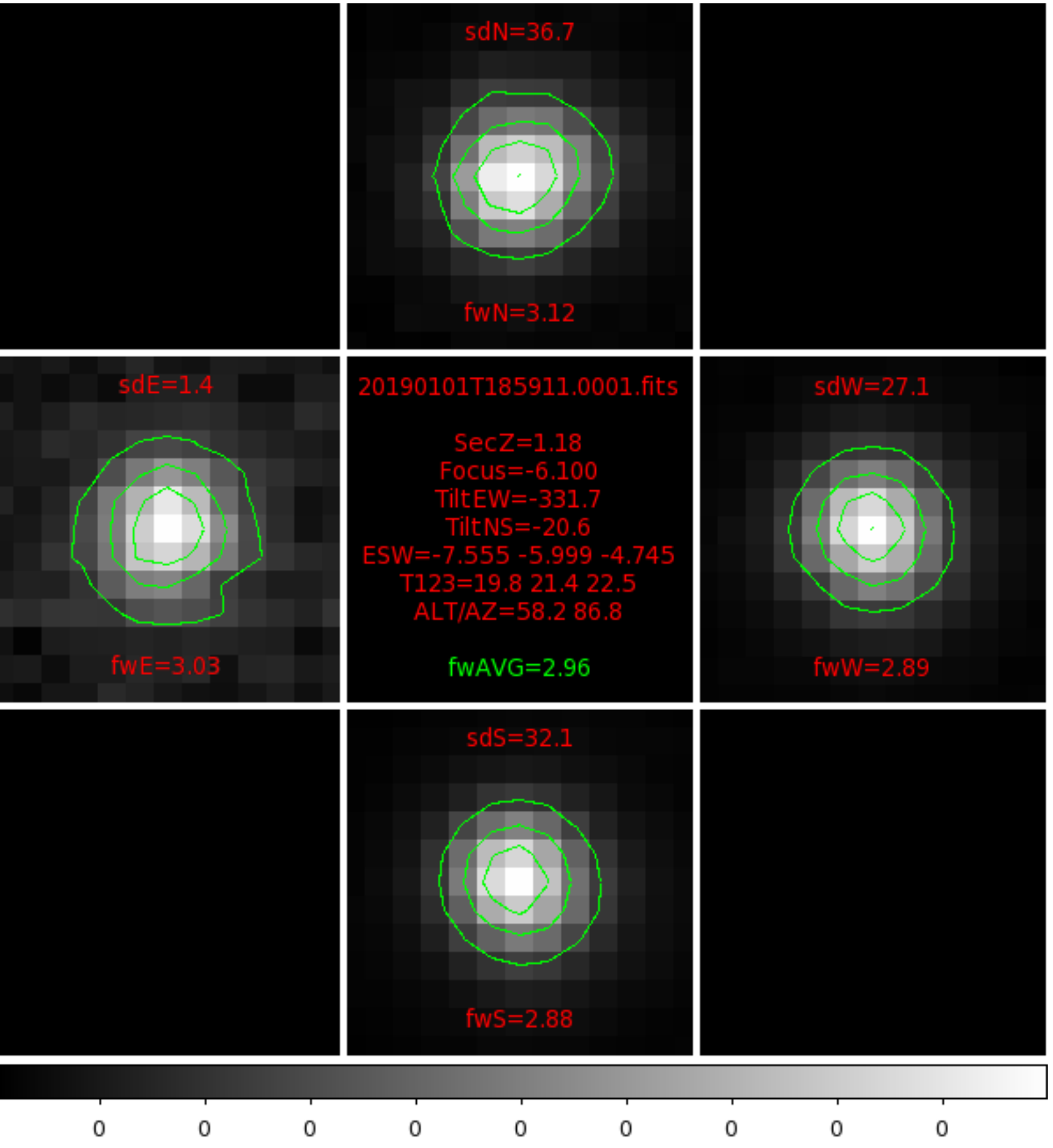
sdN=36.7
fwN=3.12
sdE=1.4
fwE=3.03
20190101T185911.0001.fits
SecZ=1.18
Focus=-6.100
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.555 -5.999 -4.745
T123=19.8 21.4 22.5
ALT/AZ=58.2 86.8
fwAVG=2.96
sdW=27.1
fwW=2.89
sdS=32.1
fwS=2.88
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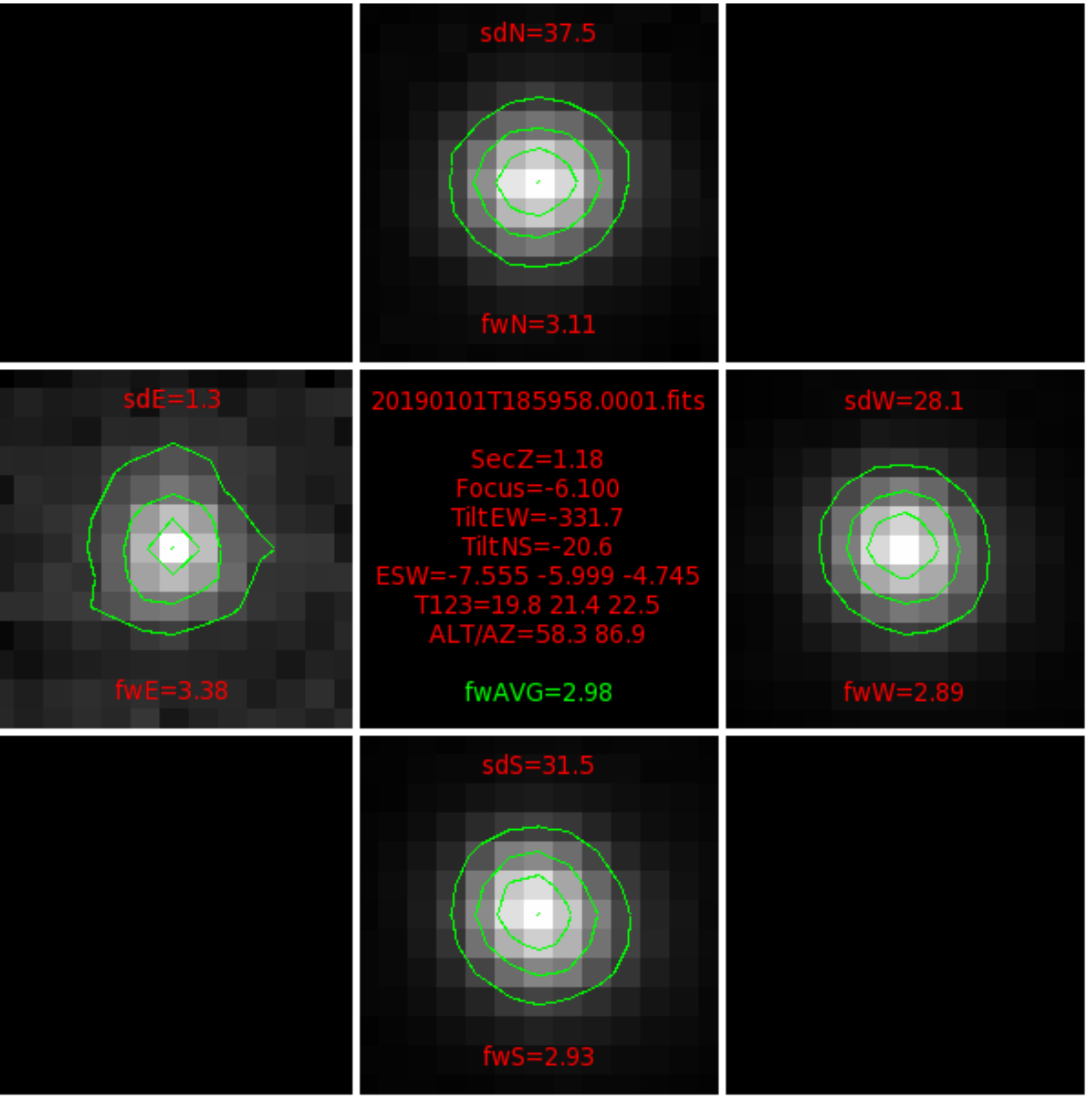
sdN=37.5
fwN=3.11
sdE=1.3
fwE=3.38
20190101T185958.0001.fits
SecZ=1.18
Focus=-6.100
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.555 -5.999 -4.745
T123=19.8 21.4 22.5
ALT/AZ=58.3 86.9
fwAVG=2.98
sdW=28.1
fwW=2.89
sdS=31.5
fwS=2.93
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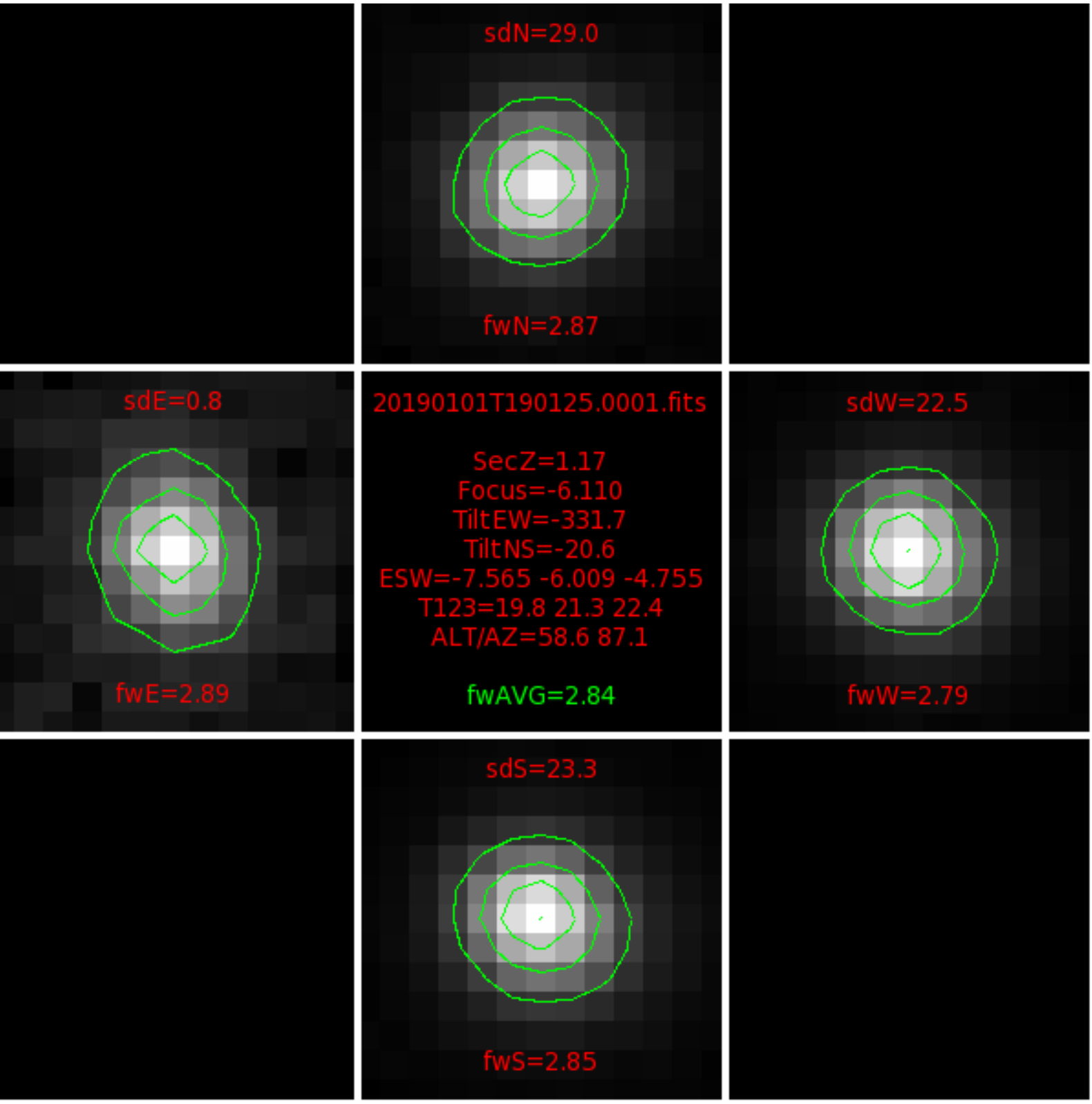
sdN=29.0
fwN=2.87
sdE=0.8
fwE=2.89
20190101T190125.0001.fits
SecZ=1.17
Focus=-6.110
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.565 -6.009 -4.755
T123=19.8 21.3 22.4
ALT/AZ=58.6 87.1
fwAVG=2.84
sdW=22.5
fwW=2.79
sdS=23.3
fwS=2.85
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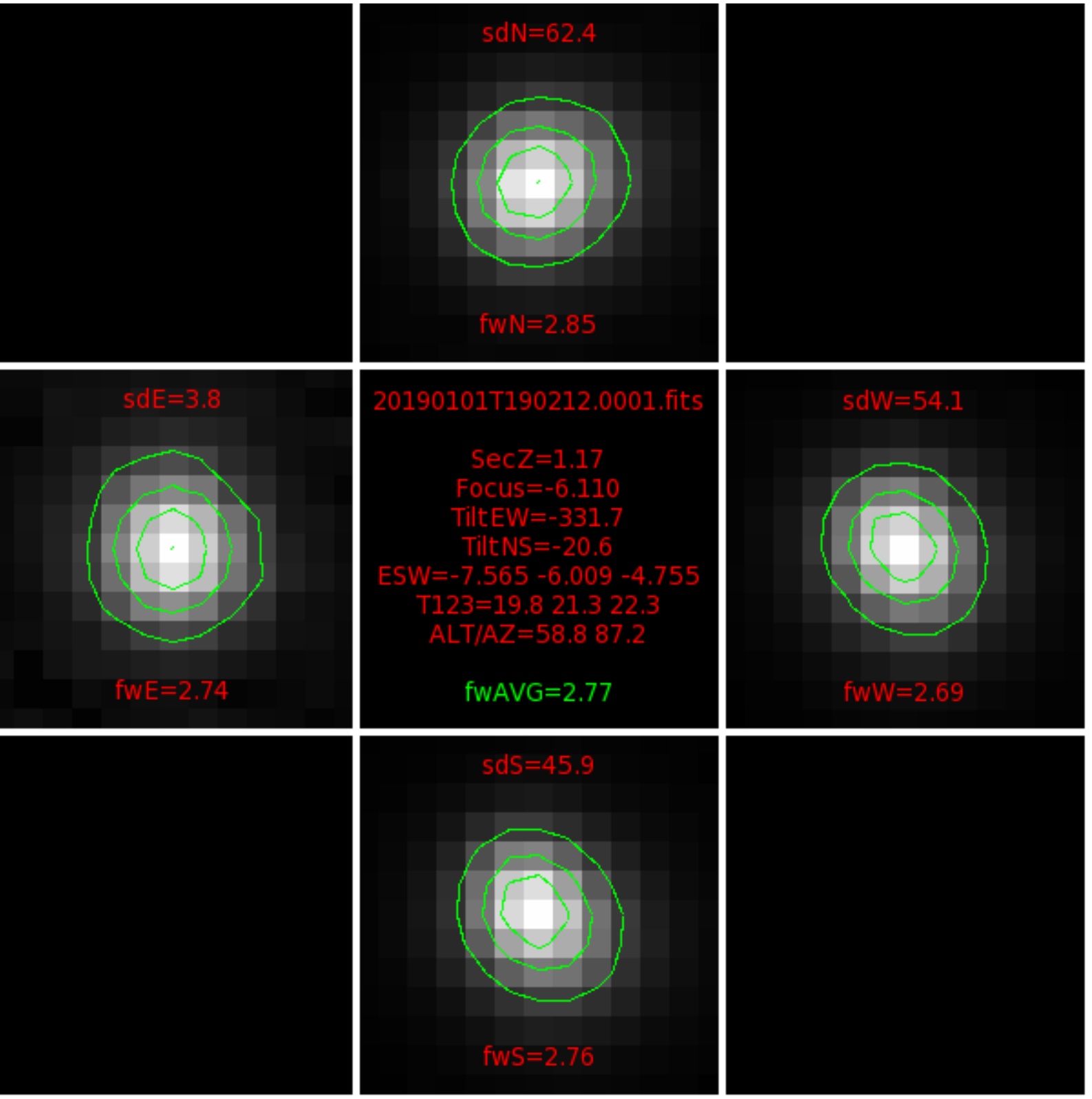
sdN=62.4
fwN=2.85
sdE=3.8
fwE=2.74
20190101T190212.0001.fits
SecZ=1.17
Focus=-6.110
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.565 -6.009 -4.755
T123=19.8 21.3 22.3
ALT/AZ=58.8 87.2
fwAVG=2.77
sdW=54.1
fwW=2.69
sdS=45.9
fwS=2.76
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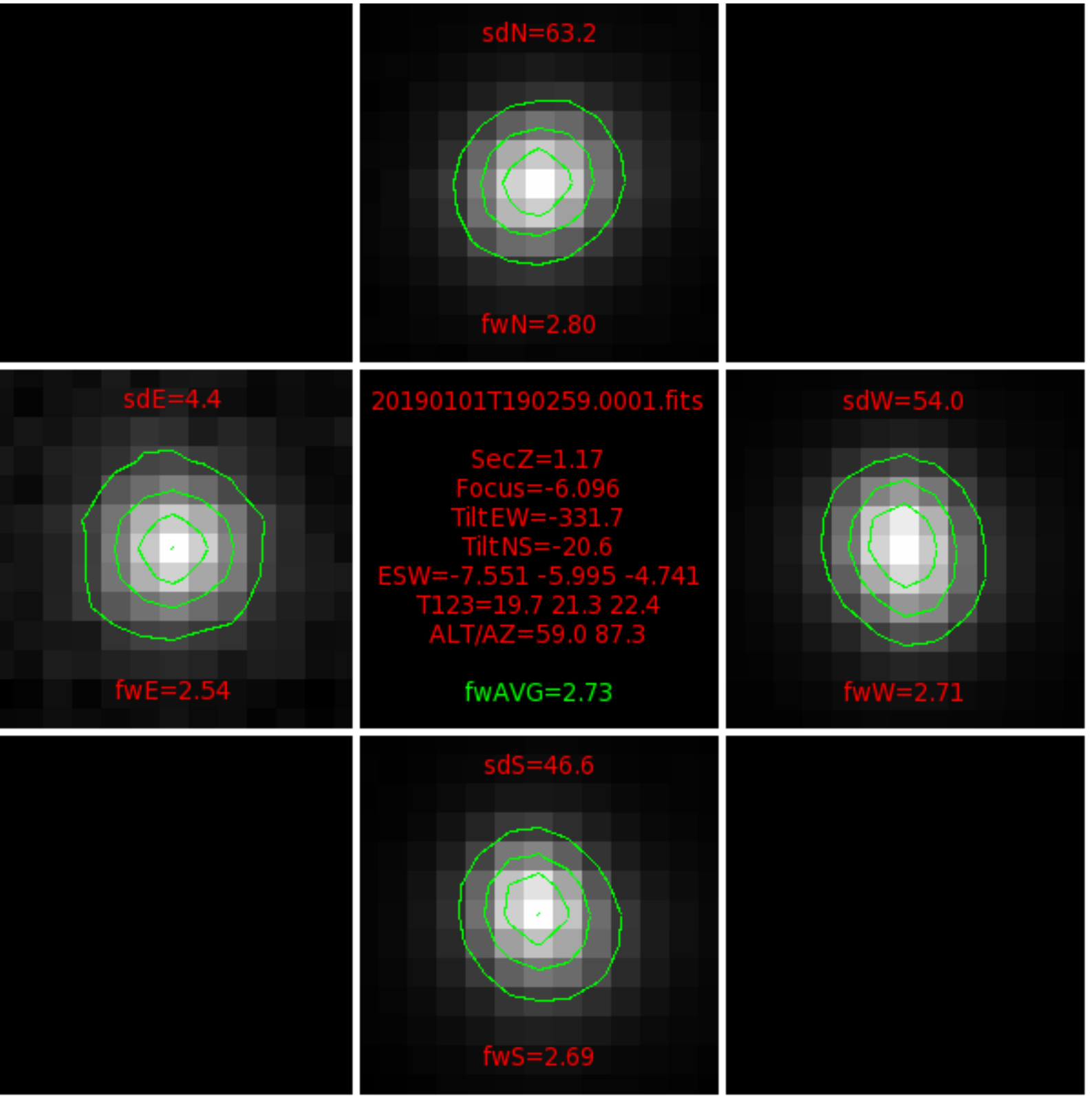
sdN=63.2
fwN=2.80
sdE=4.4
fwE=2.54
20190101T190259.0001.fits
SecZ=1.17
Focus=-6.096
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.551 -5.995 -4.741
T123=19.7 21.3 22.4
ALT/AZ=59.0 87.3
fwAVG=2.73
sdW=54.0
fwW=2.71
sdS=46.6
fwS=2.69
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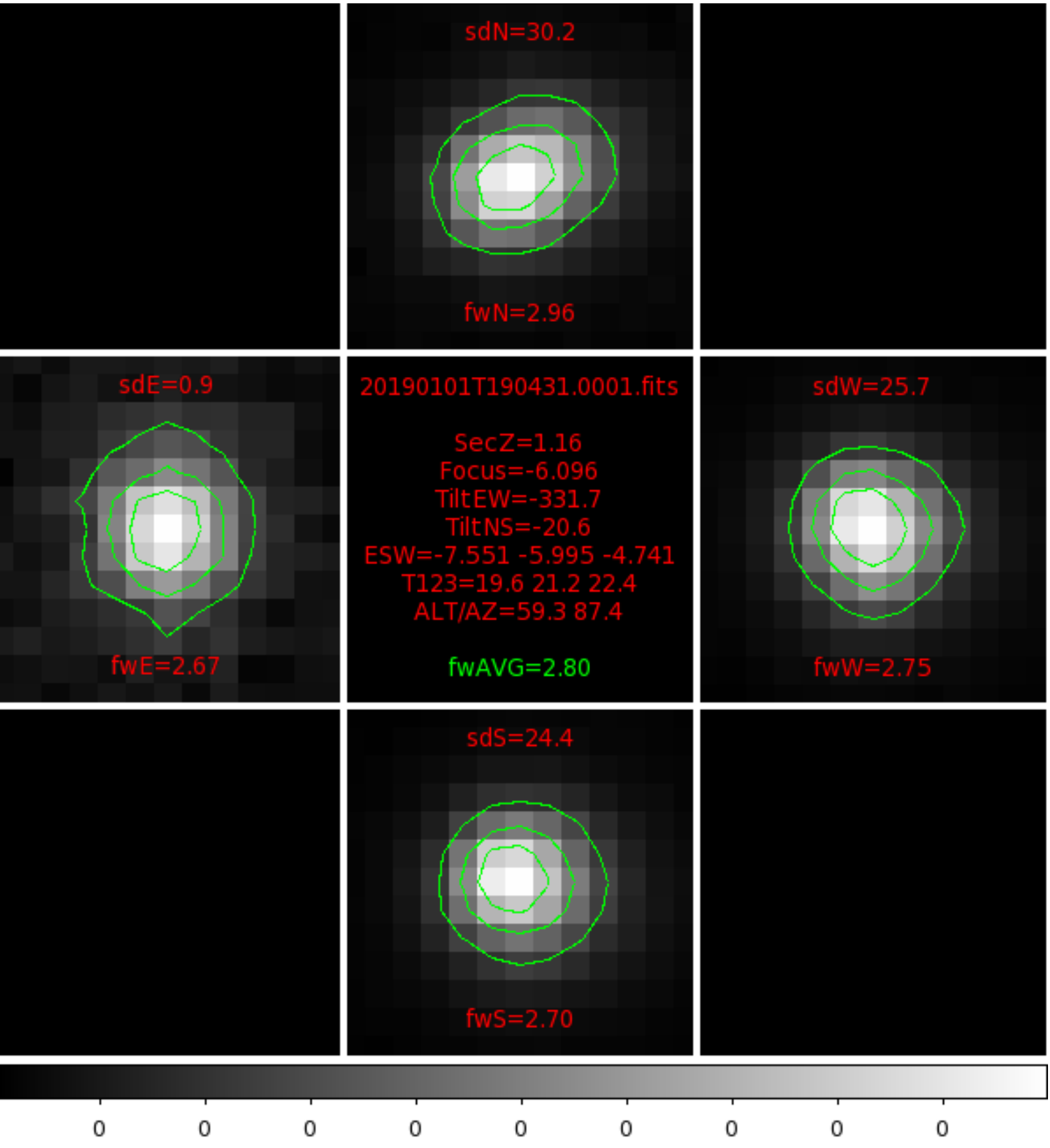
sdN=30.2
fwN=2.96
sdE=0.9
fwE=2.67
20190101T190431.0001.fits
SecZ=1.16
Focus=-6.096
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.551 -5.995 -4.741
T123=19.6 21.2 22.4
ALT/AZ=59.3 87.4
fwAVG=2.80
sdW=25.7
fwW=2.75
sdS=24.4
fwS=2.70
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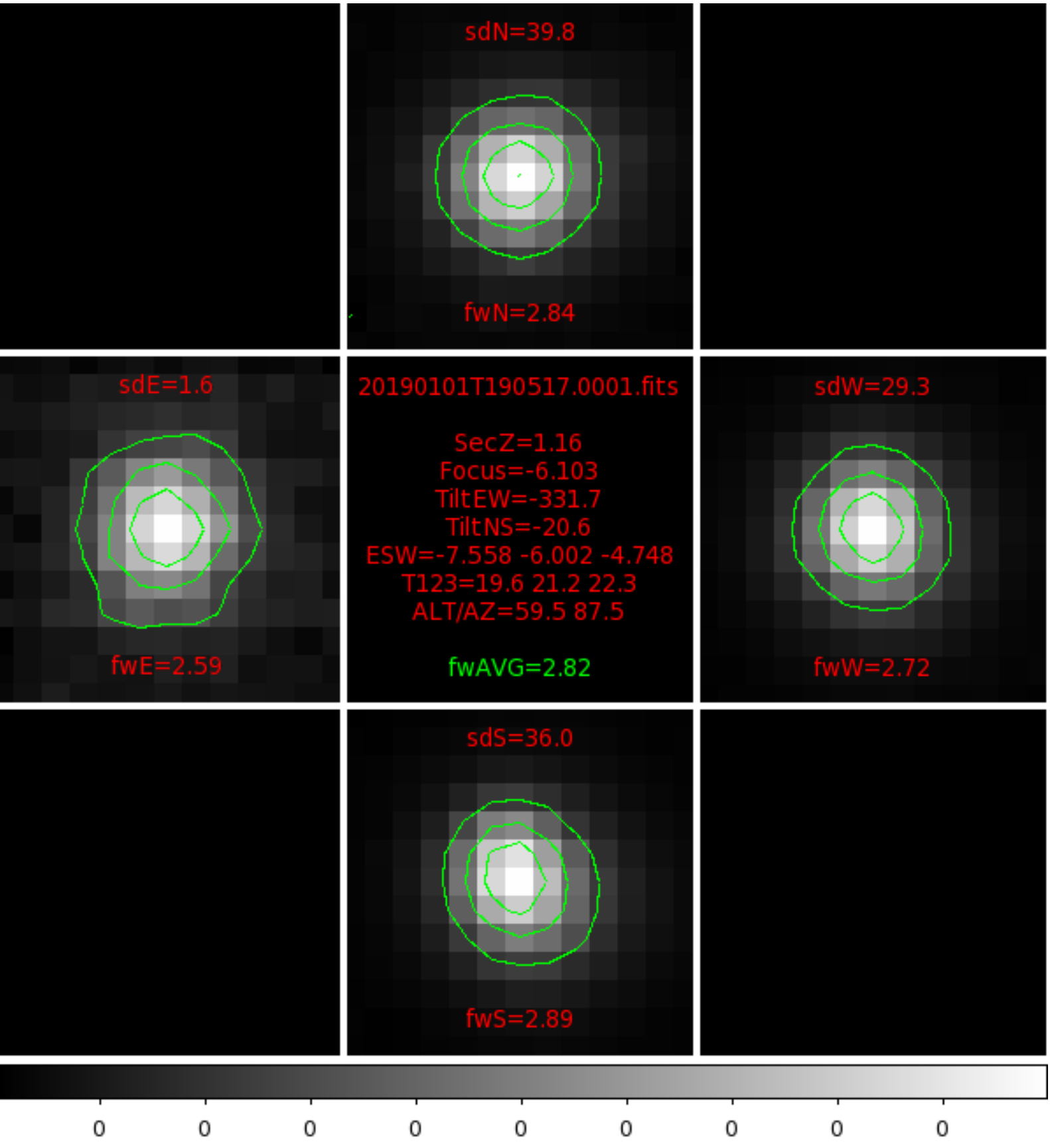
sdN=39.8
fwN=2.84
sdE=1.6
fwE=2.59
20190101T190517.0001.fits
SecZ=1.16
Focus=-6.103
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.558 -6.002 -4.748
T123=19.6 21.2 22.3
ALT/AZ=59.5 87.5
fwAVG=2.82
sdW=29.3
fwW=2.72
sdS=36.0
fwS=2.89
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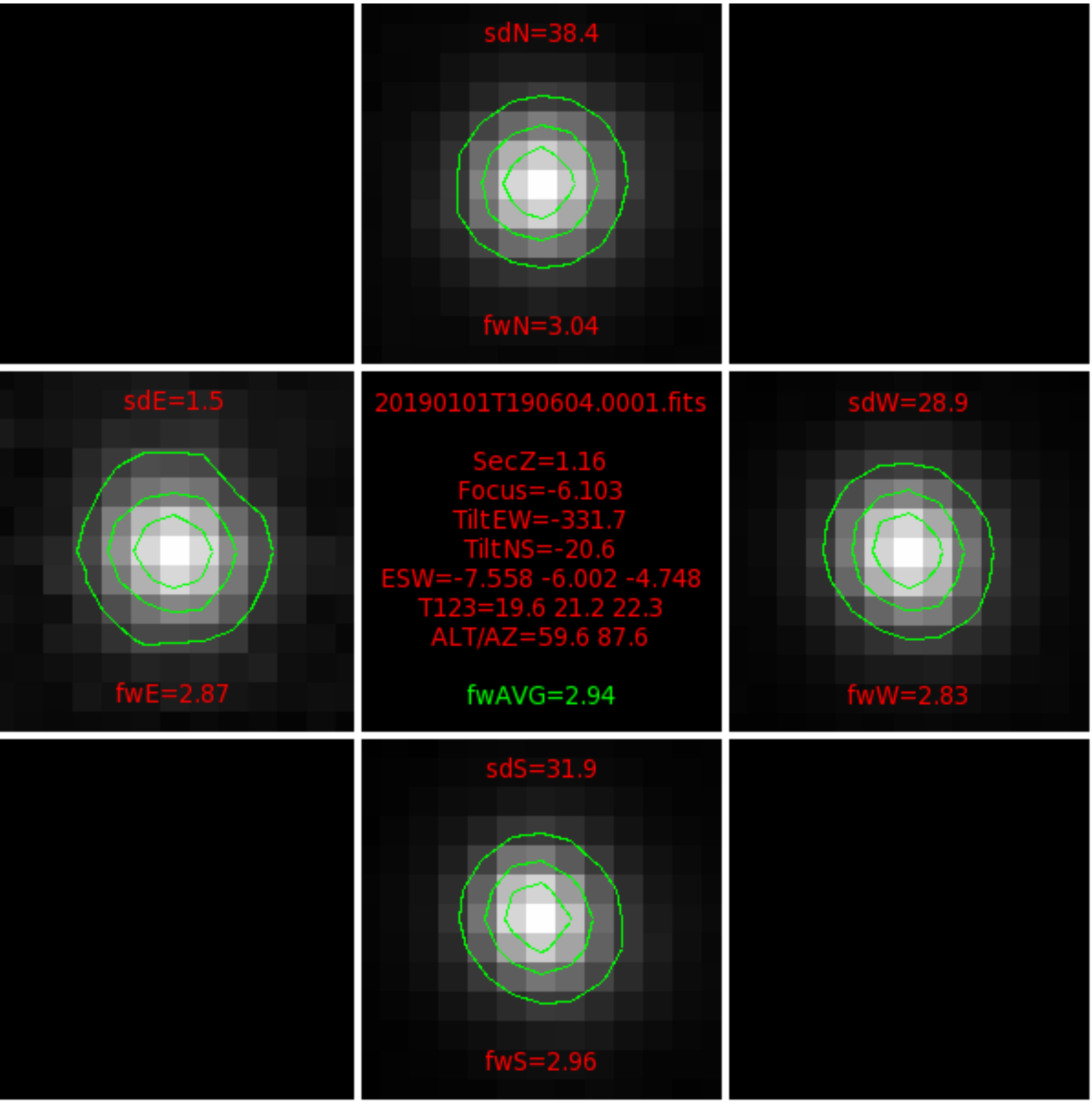
sdN=38.4
fwN=3.04
sdE=1.5
fwE=2.87
20190101T190604.0001.fits
SecZ=1.16
Focus=-6.103
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.558 -6.002 -4.748
T123=19.6 21.2 22.3
ALT/AZ=59.6 87.6
fwAVG=2.94
sdW=28.9
fwW=2.83
sdS=31.9
fwS=2.96
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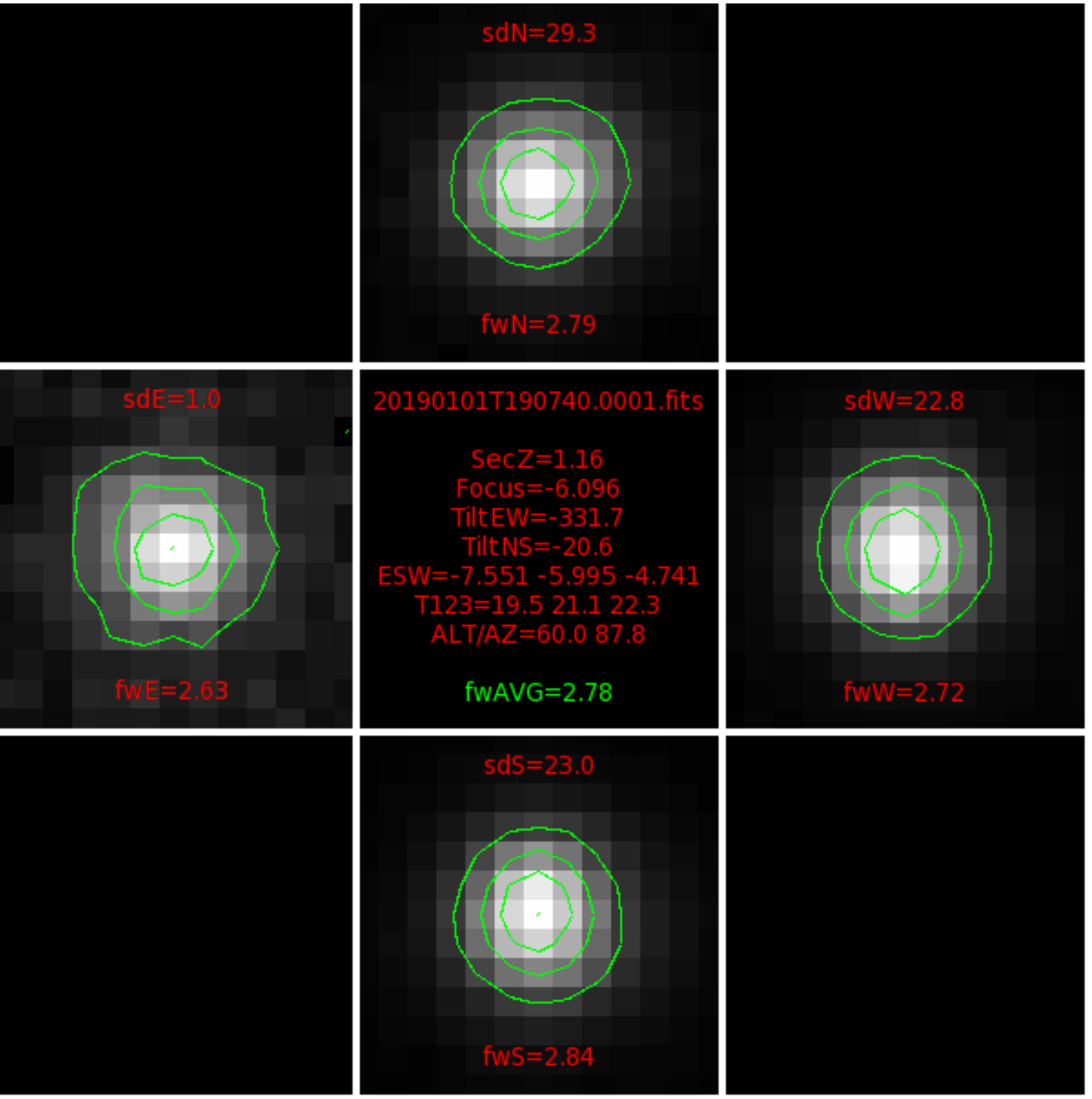
sdN=29.3
fwN=2.79
sdE=1.0
fwE=2.63
20190101T190740.0001.fits
SecZ=1.16
Focus=-6.096
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.551 -5.995 -4.741
T123=19.5 21.1 22.3
ALT/AZ=60.0 87.8
fwAVG=2.78
sdW=22.8
fwW=2.72
sdS=23.0
fwS=2.84
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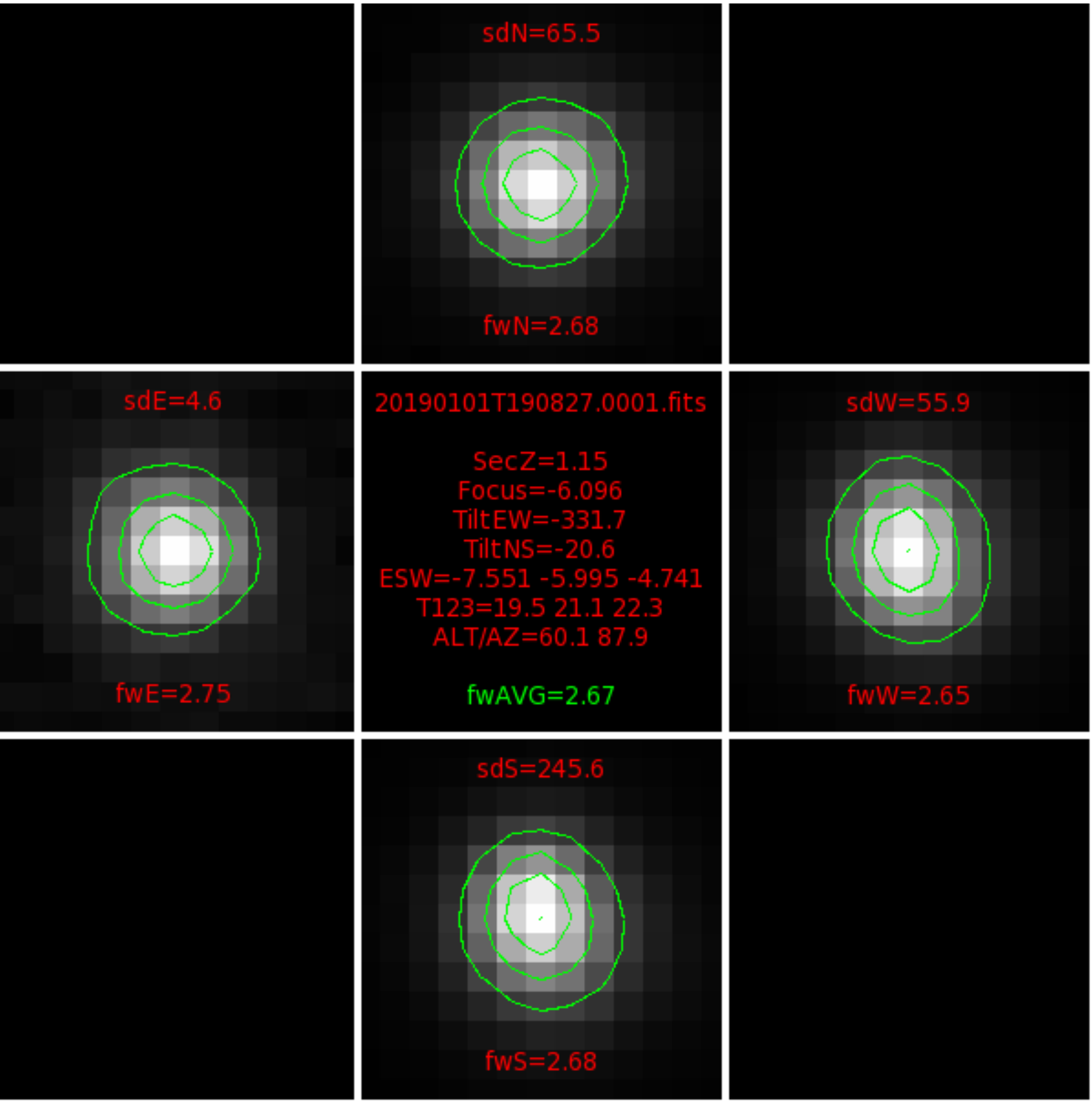
sdN=65.5
fwN=2.68
sdE=4.6
fwE=2.75
20190101T190827.0001.fits
SecZ=1.15
Focus=-6.096
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.551 -5.995 -4.741
T123=19.5 21.1 22.3
ALT/AZ=60.1 87.9
fwAVG=2.67
sdW=55.9
fwW=2.65
sdS=245.6
fwS=2.68
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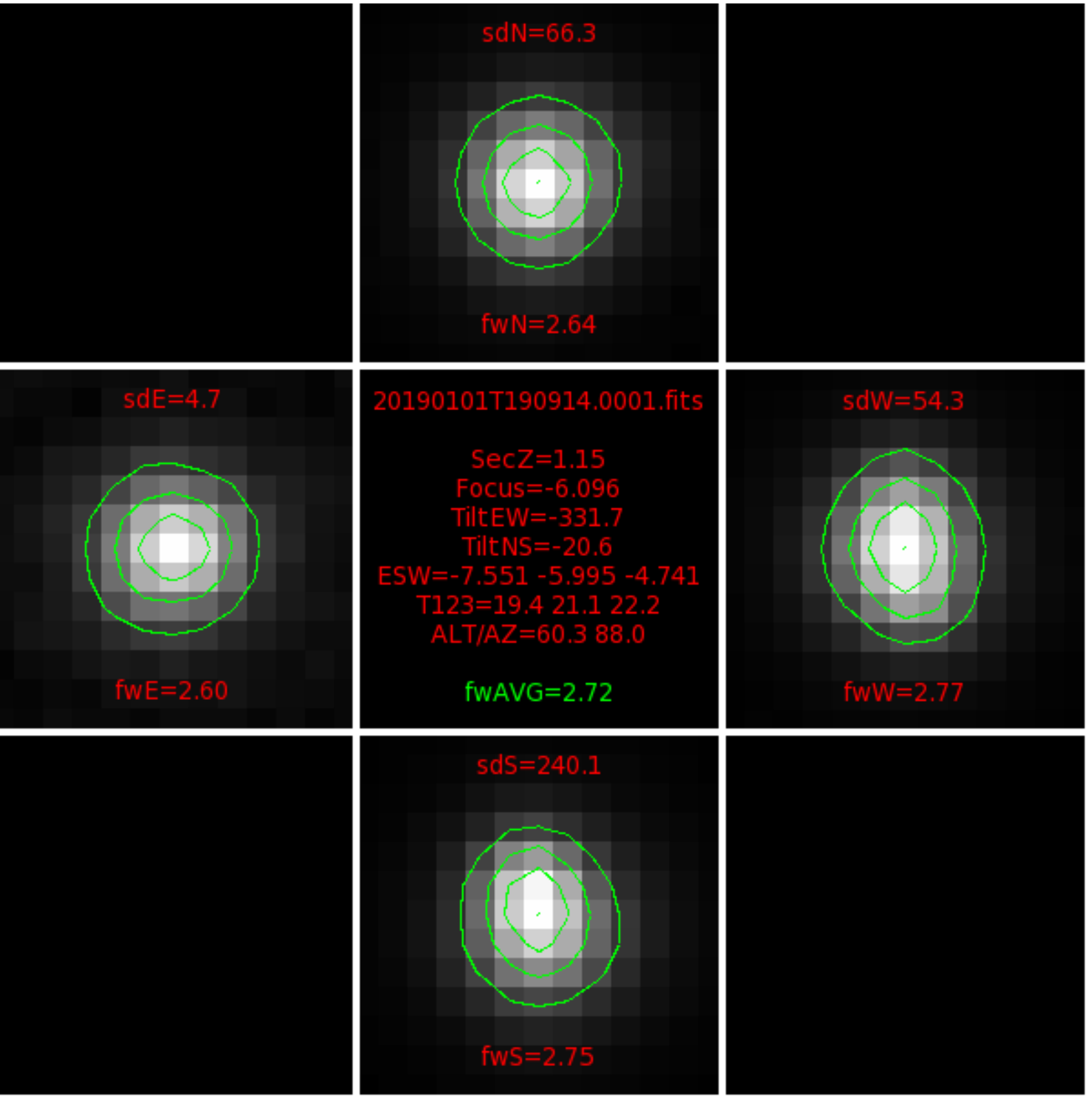
sdN=66.3
fwN=2.64
sdE=4.7
fwE=2.60
20190101T190914.0001.fits
SecZ=1.15
Focus=-6.096
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.551 -5.995 -4.741
T123=19.4 21.1 22.2
ALT/AZ=60.3 88.0
fwAVG=2.72
sdW=54.3
fwW=2.77
sdS=240.1
fwS=2.75
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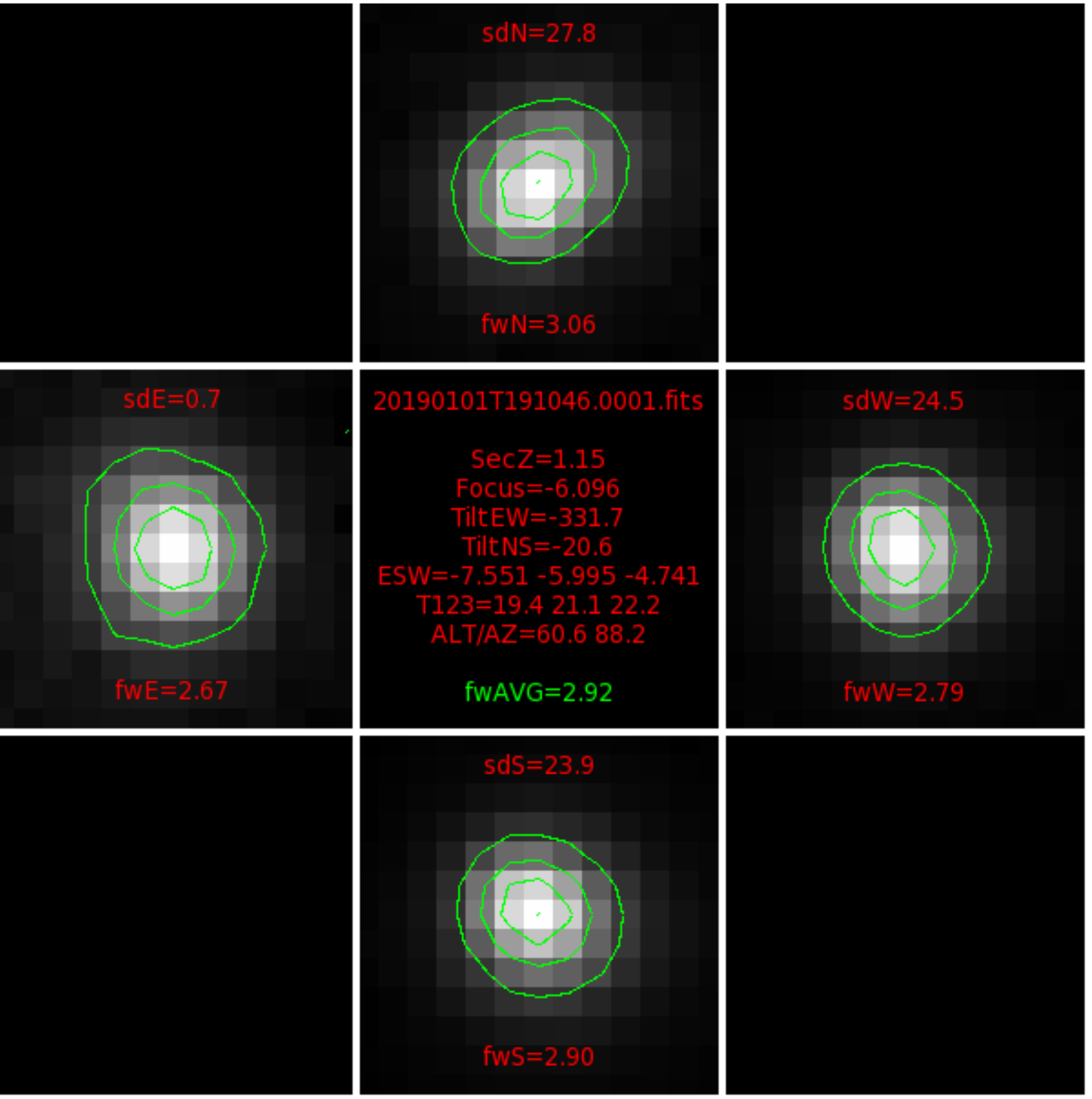
sdN=27.8
fwN=3.06
sdE=0.7
fwE=2.67
20190101T191046.0001.fits
SecZ=1.15
Focus=-6.096
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.551 -5.995 -4.741
T123=19.4 21.1 22.2
ALT/AZ=60.6 88.2
fwAVG=2.92
sdW=24.5
fwW=2.79
sdS=23.9
fwS=2.90
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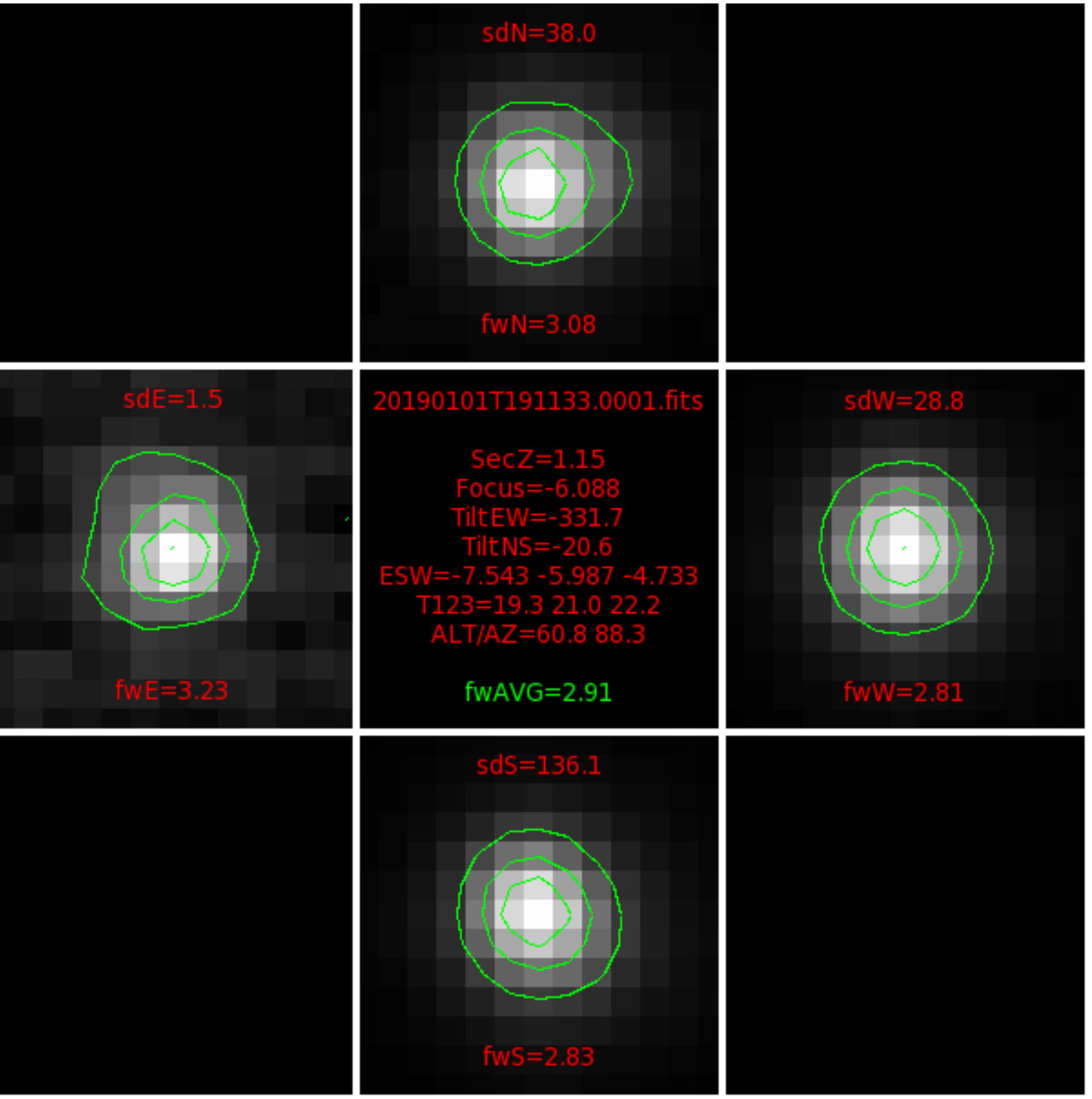
sdN=38.0
fwN=3.08
sdE=1.5
fwE=3.23
20190101T191133.0001.fits
SecZ=1.15
Focus=-6.088
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.543 -5.987 -4.733
T123=19.3 21.0 22.2
ALT/AZ=60.8 88.3
fwAVG=2.91
sdW=28.8
fwW=2.81
sdS=136.1
fwS=2.83
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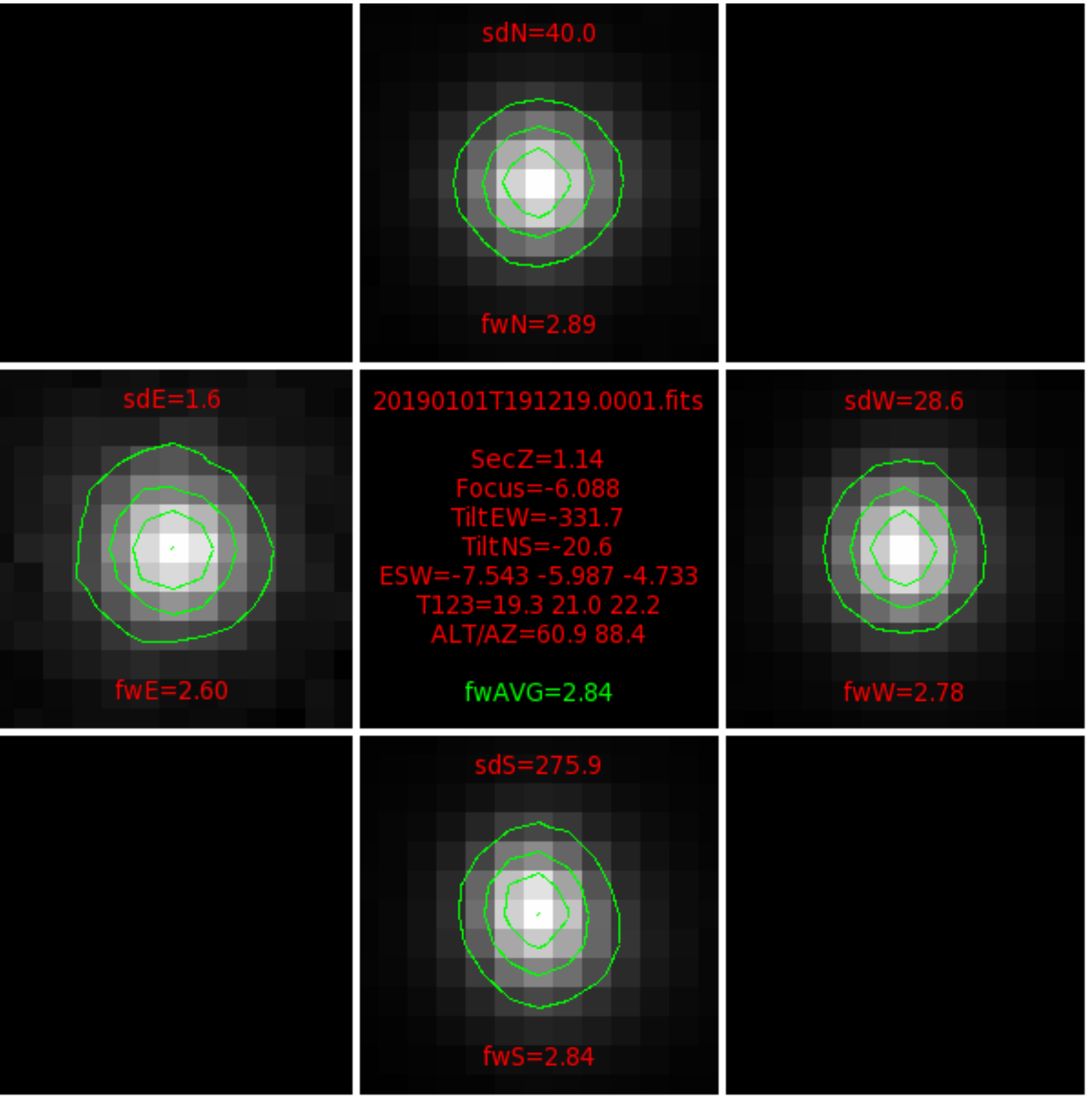
sdN=40.0
fwN=2.89
sdE=1.6
fwE=2.60
20190101T191219.0001.fits
SecZ=1.14
Focus=-6.088
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.543 -5.987 -4.733
T123=19.3 21.0 22.2
ALT/AZ=60.9 88.4
fwAVG=2.84
sdW=28.6
fwW=2.78
sdS=275.9
fwS=2.84
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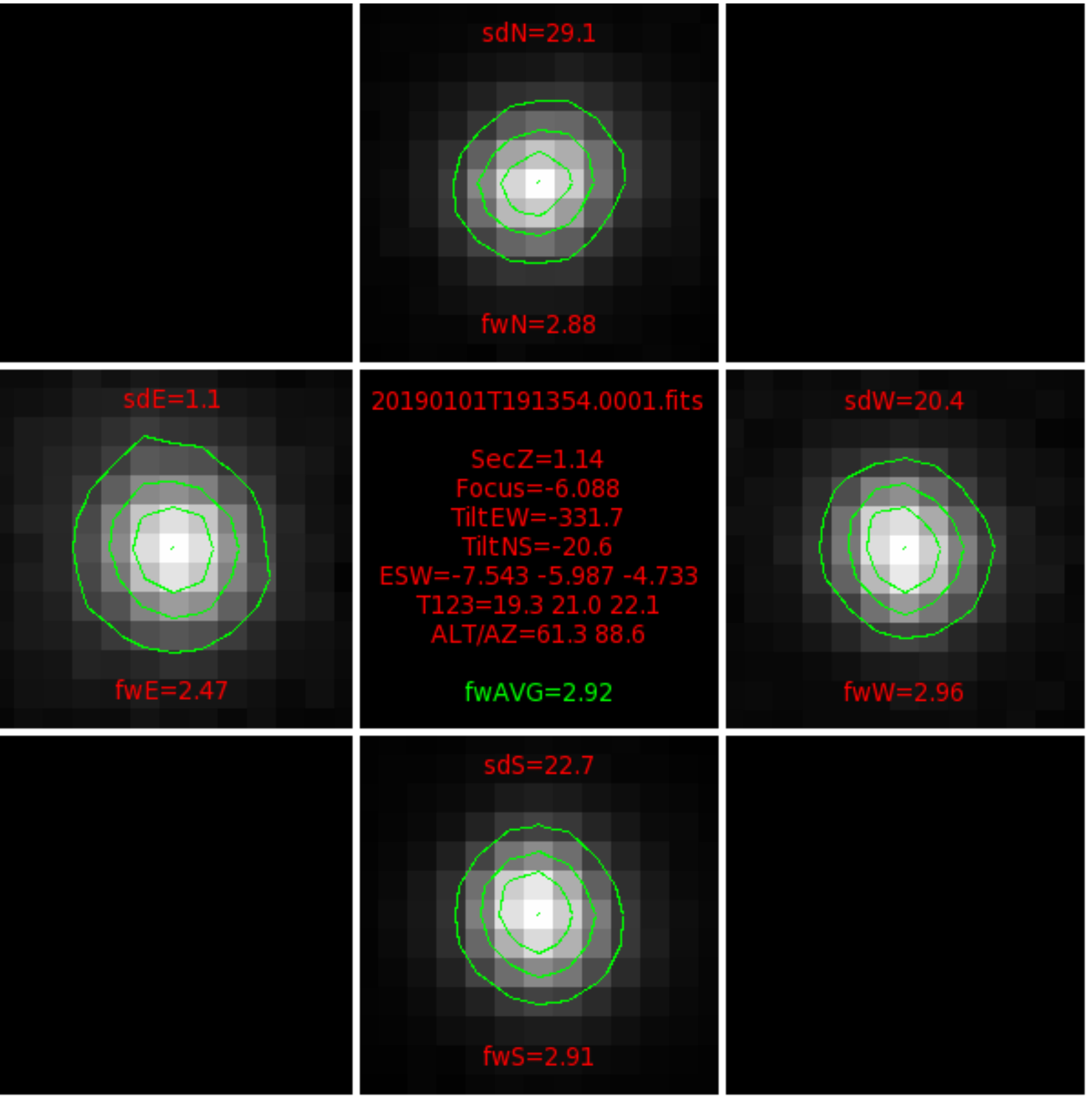
sdN=29.1
fwN=2.88
sdE=1.1
fwE=2.47
20190101T191354.0001.fits
SecZ=1.14
Focus=-6.088
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.543 -5.987 -4.733
T123=19.3 21.0 22.1
ALT/AZ=61.3 88.6
fwAVG=2.92
sdW=20.4
fwW=2.96
sdS=22.7
fwS=2.91
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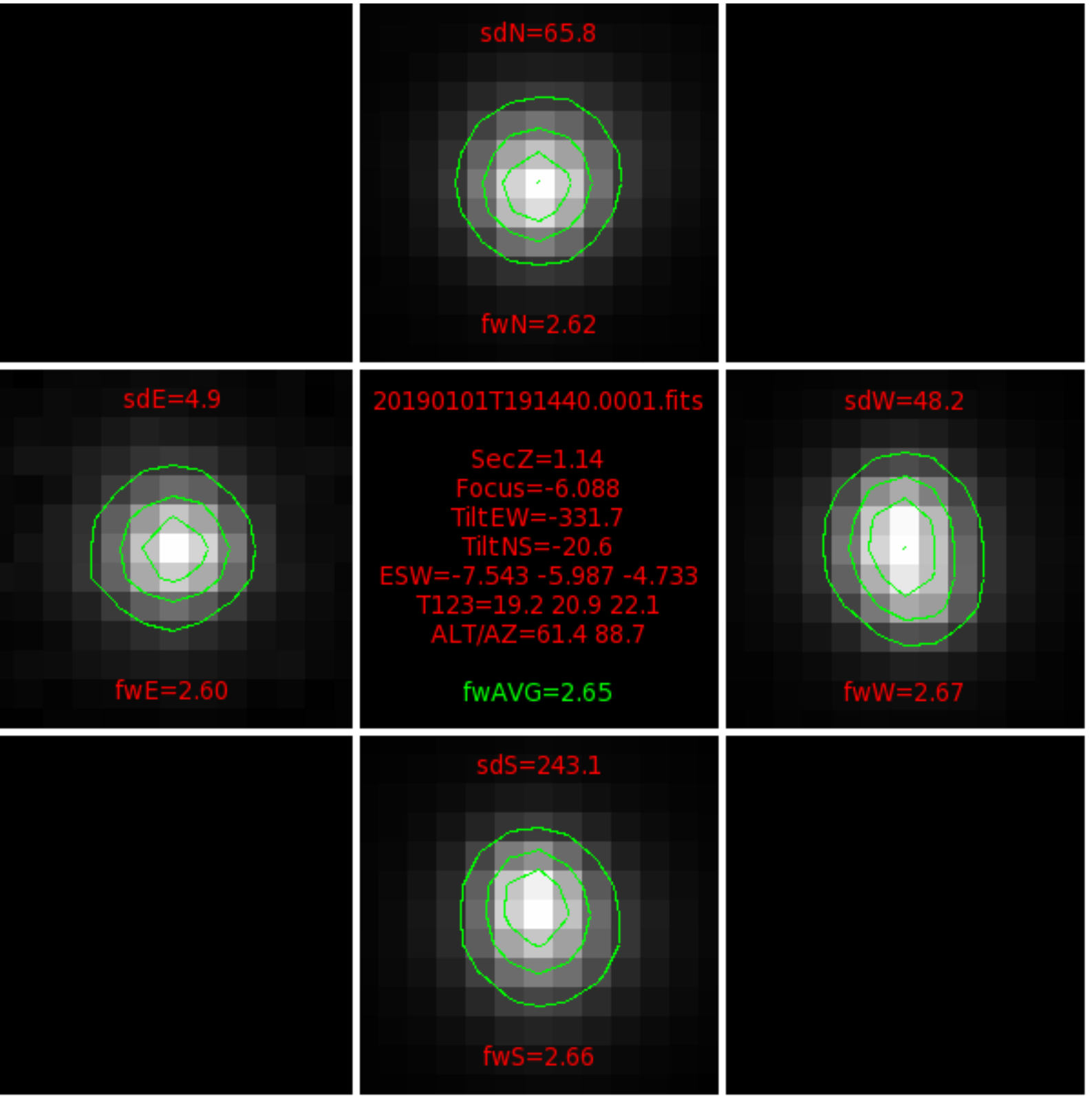
sdN=65.8
fwN=2.62
sdE=4.9
fwE=2.60
20190101T191440.0001.fits
SecZ=1.14
Focus=-6.088
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.543 -5.987 -4.733
T123=19.2 20.9 22.1
ALT/AZ=61.4 88.7
fwAVG=2.65
sdW=48.2
fwW=2.67
sdS=243.1
fwS=2.66
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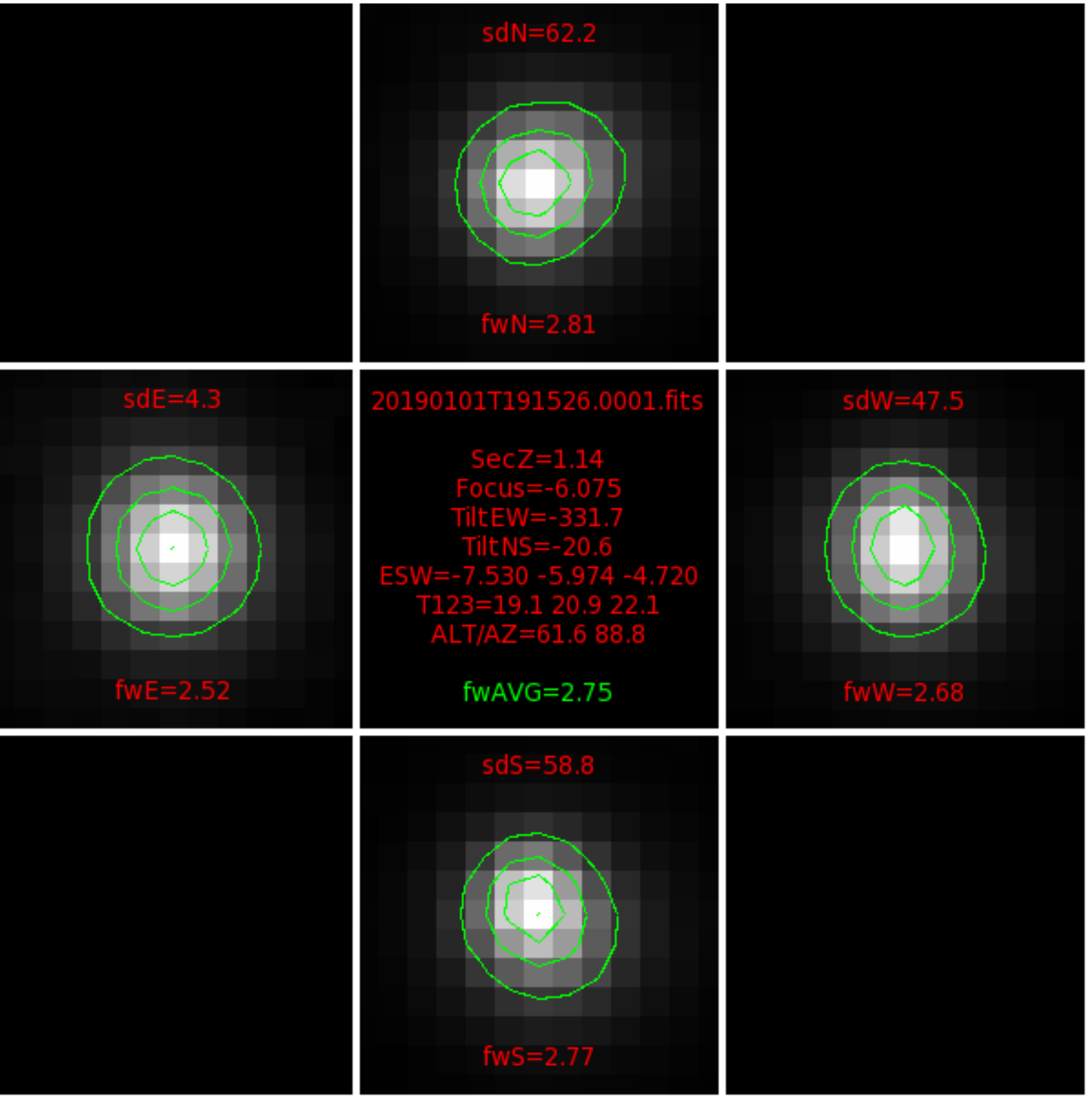
sdN=62.2
fwN=2.81
sdE=4.3
fwE=2.52
20190101T191526.0001.fits
SecZ=1.14
Focus=-6.075
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.530 -5.974 -4.720
T123=19.1 20.9 22.1
ALT/AZ=61.6 88.8
fwAVG=2.75
sdW=47.5
fwW=2.68
sdS=58.8
fwS=2.77
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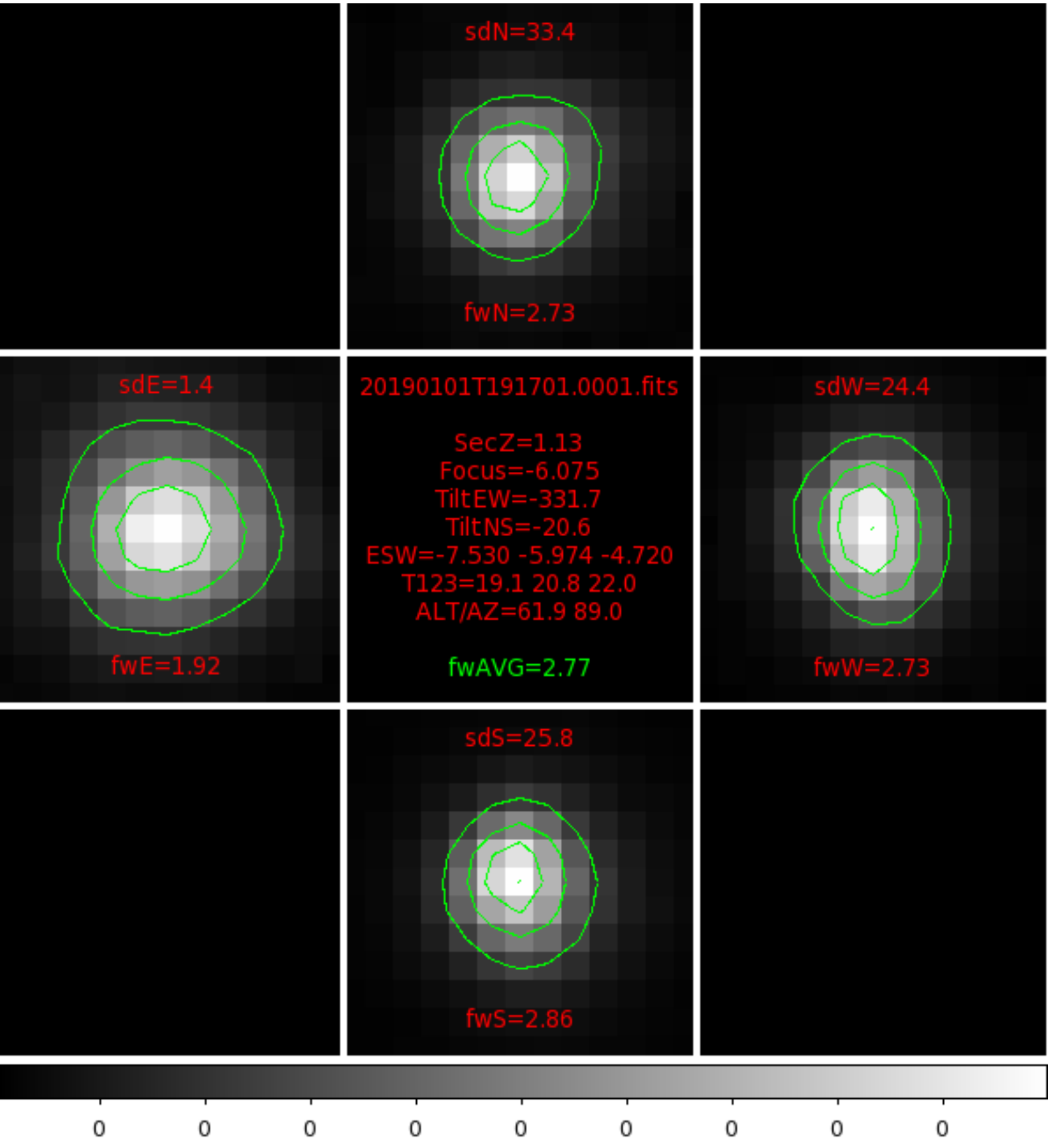
sdN=33.4
fwN=2.73
sdE=1.4
fwE=1.92
20190101T191701.0001.fits
SecZ=1.13
Focus=-6.075
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.530 -5.974 -4.720
T123=19.1 20.8 22.0
ALT/AZ=61.9 89.0
fwAVG=2.77
sdW=24.4
fwW=2.73
sdS=25.8
fwS=2.86
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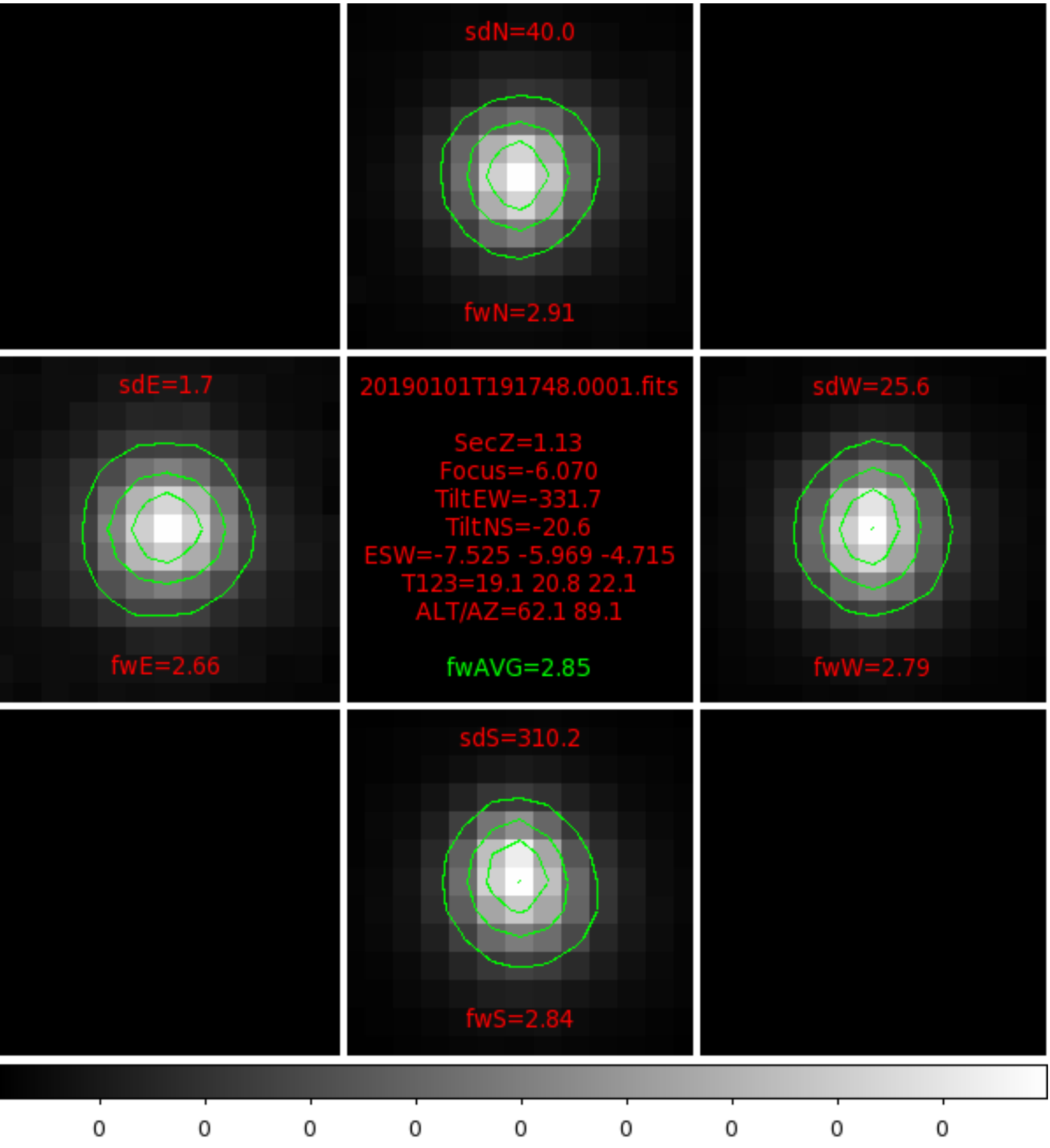
sdN=40.0
fwN=2.91
sdE=1.7
fwE=2.66
20190101T191748.0001.fits
SecZ=1.13
Focus=-6.070
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.525 -5.969 -4.715
T123=19.1 20.8 22.1
ALT/AZ=62.1 89.1
fwAVG=2.85
sdW=25.6
fwW=2.79
sdS=310.2
fwS=2.84
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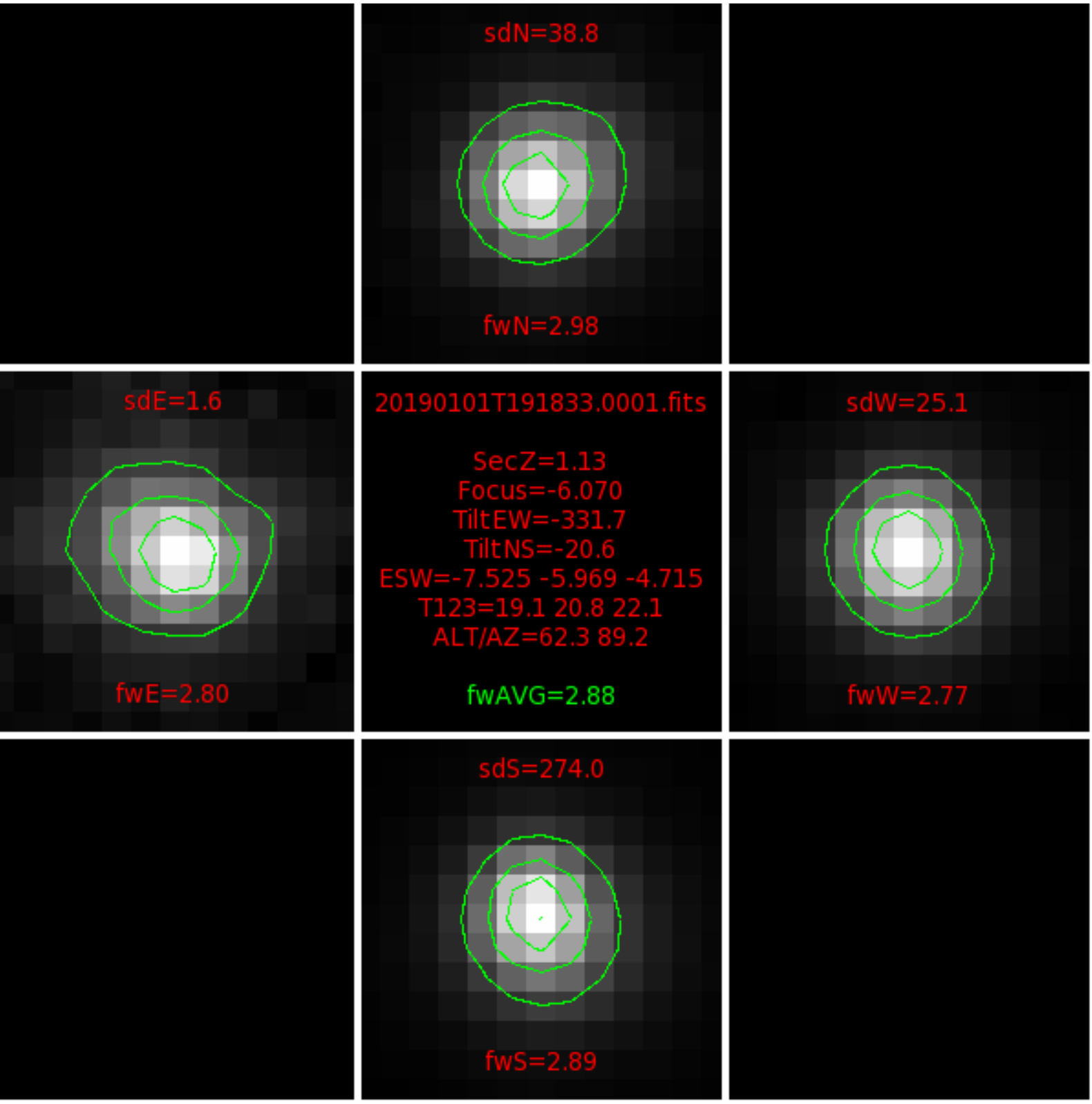
sdN=38.8
fwN=2.98
sdE=1.6
fwE=2.80
20190101T191833.0001.fits
SecZ=1.13
Focus=-6.070
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.525 -5.969 -4.715
T123=19.1 20.8 22.1
ALT/AZ=62.3 89.2
fwAVG=2.88
sdW=25.1
fwW=2.77
sdS=274.0
fwS=2.89
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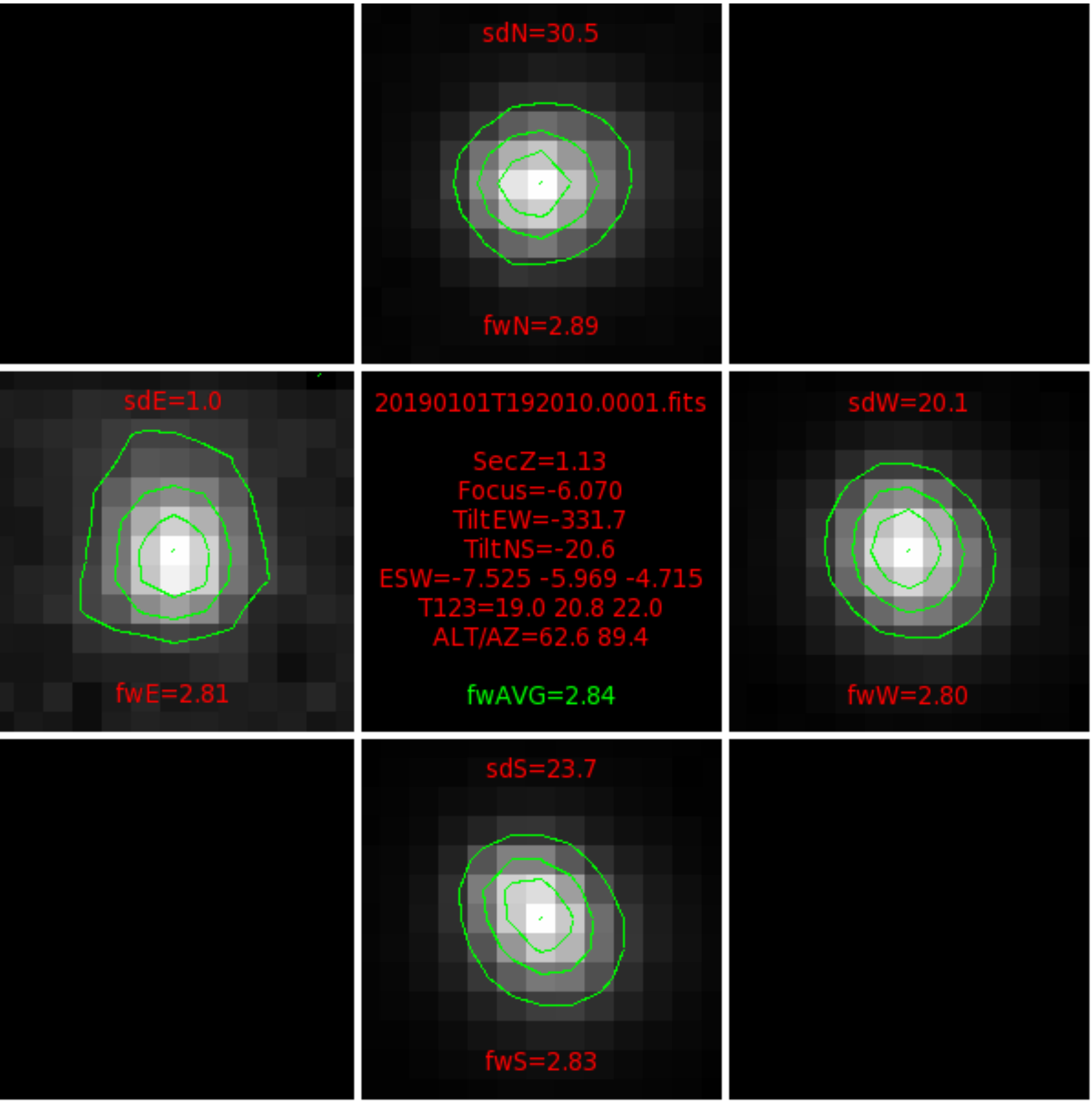
sdN=30.5
fwN=2.89
sdE=1.0
fwE=2.81
20190101T192010.0001.fits
SecZ=1.13
Focus=-6.070
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.525 -5.969 -4.715
T123=19.0 20.8 22.0
ALT/AZ=62.6 89.4
fwAVG=2.84
sdW=20.1
fwW=2.80
sdS=23.7
fwS=2.83
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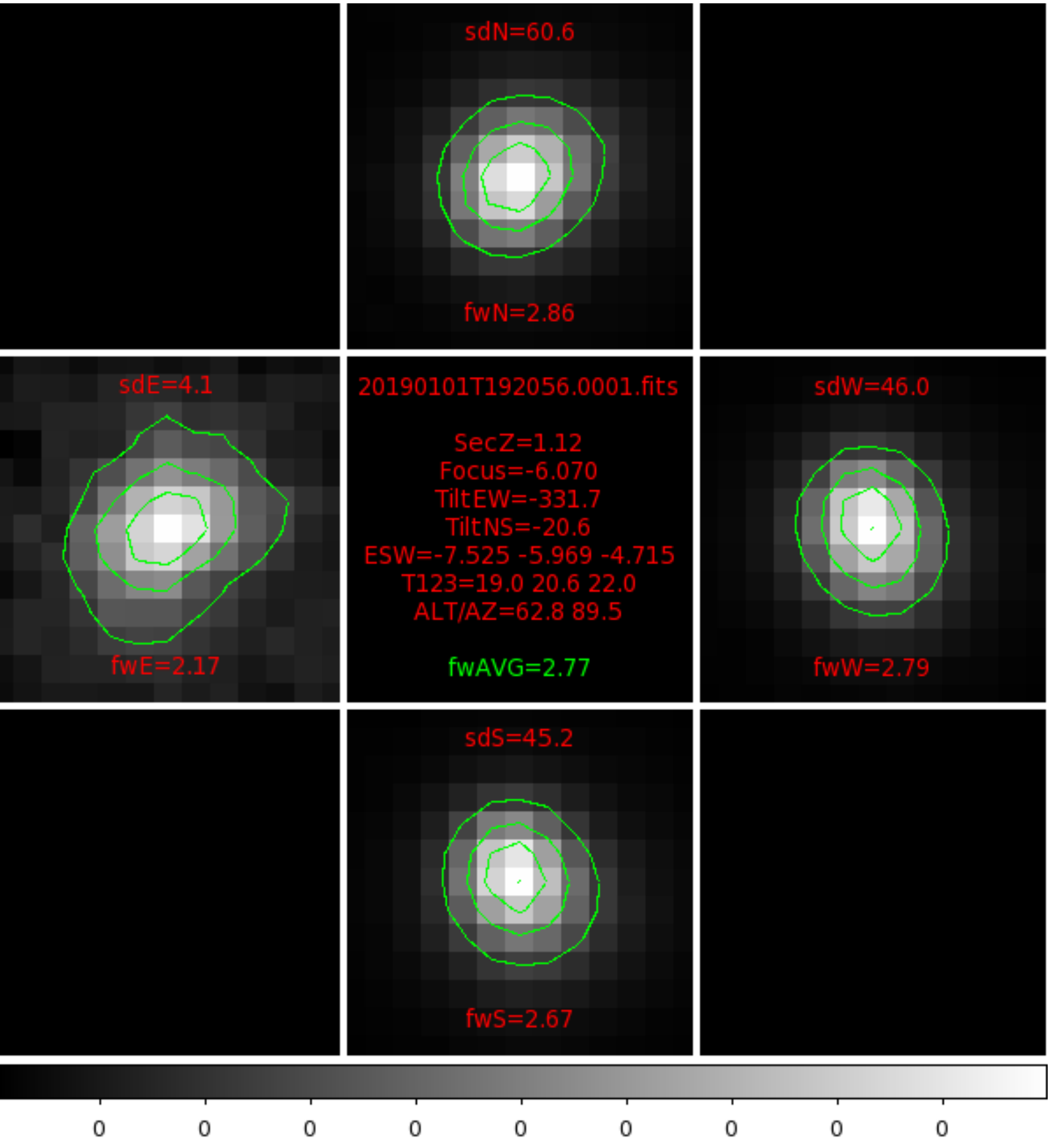
sdN=60.6
fwN=2.86
sdE=4.1
fwE=2.17
20190101T192056.0001.fits
SecZ=1.12
Focus=-6.070
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.525 -5.969 -4.715
T123=19.0 20.6 22.0
ALT/AZ=62.8 89.5
fwAVG=2.77
sdW=46.0
fwW=2.79
sdS=45.2
fwS=2.67
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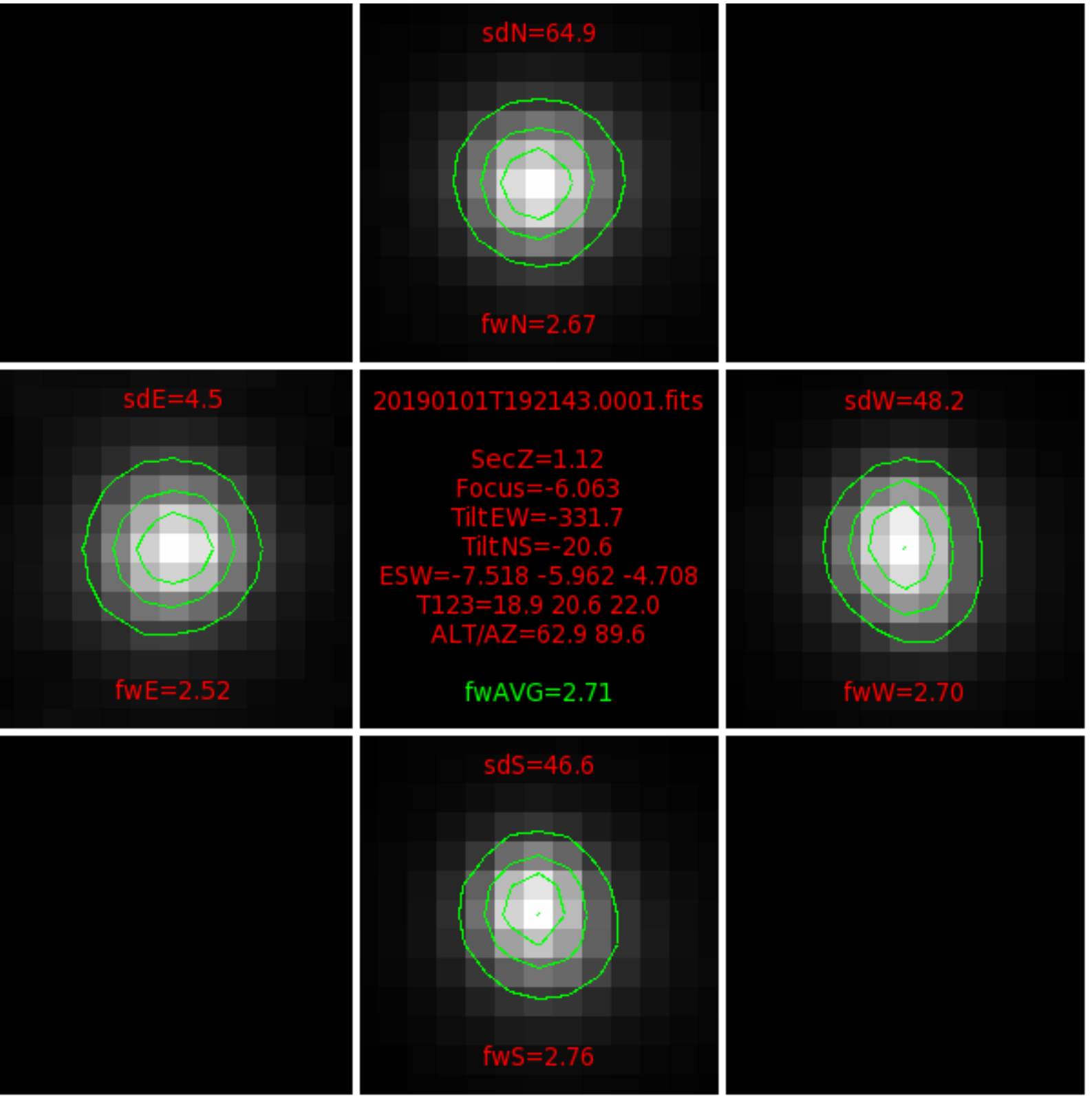
sdN=64.9
fwN=2.67
sdE=4.5
fwE=2.52
20190101T192143.0001.fits
SecZ=1.12
Focus=-6.063
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.518 -5.962 -4.708
T123=18.9 20.6 22.0
ALT/AZ=62.9 89.6
fwAVG=2.71
sdW=48.2
fwW=2.70
sdS=46.6
fwS=2.76
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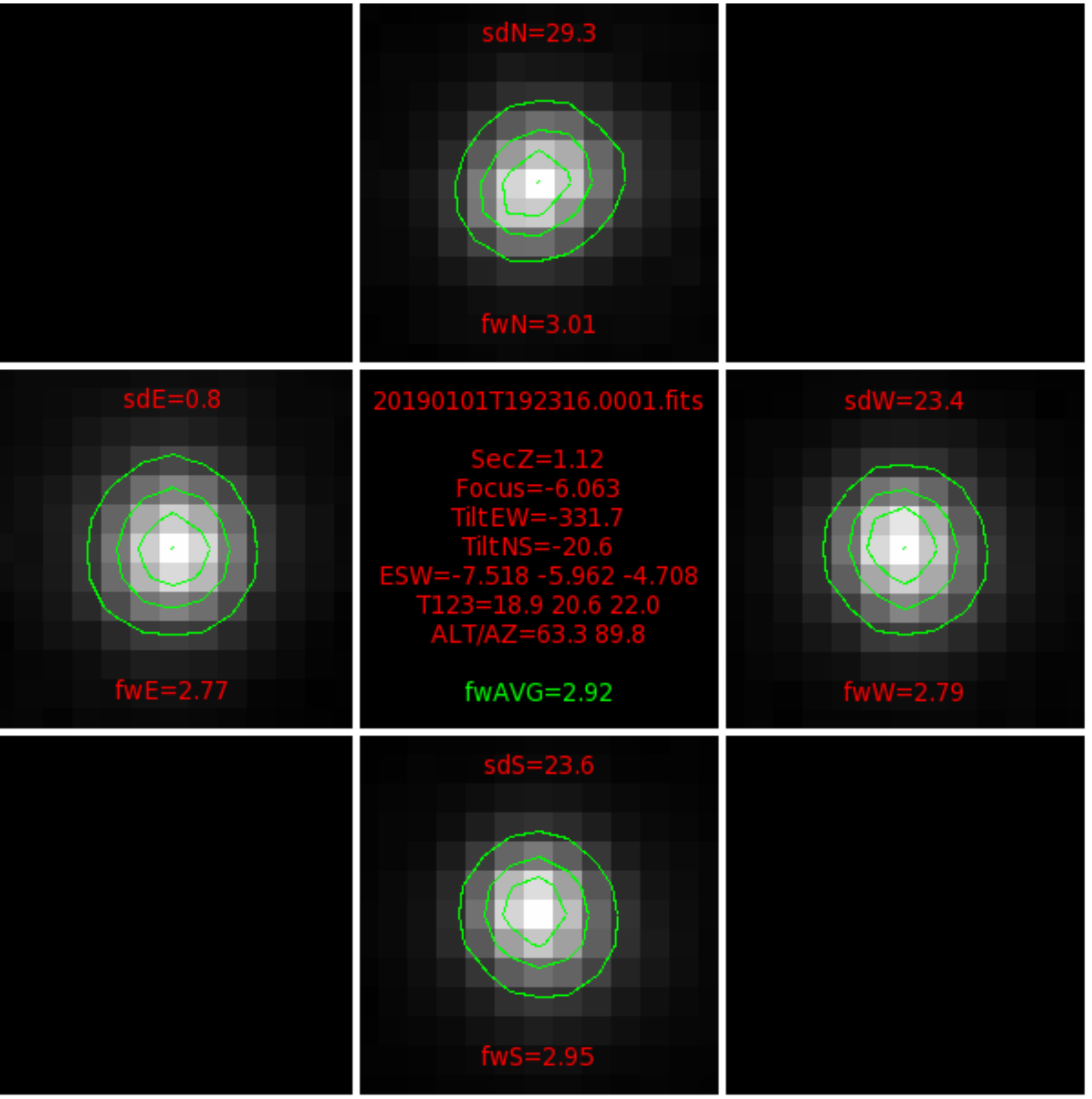
sdN=29.3
fwN=3.01
sdE=0.8
fwE=2.77
20190101T192316.0001.fits
SecZ=1.12
Focus=-6.063
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.518 -5.962 -4.708
T123=18.9 20.6 22.0
ALT/AZ=63.3 89.8
fwAVG=2.92
sdW=23.4
fwW=2.79
sdS=23.6
fwS=2.95
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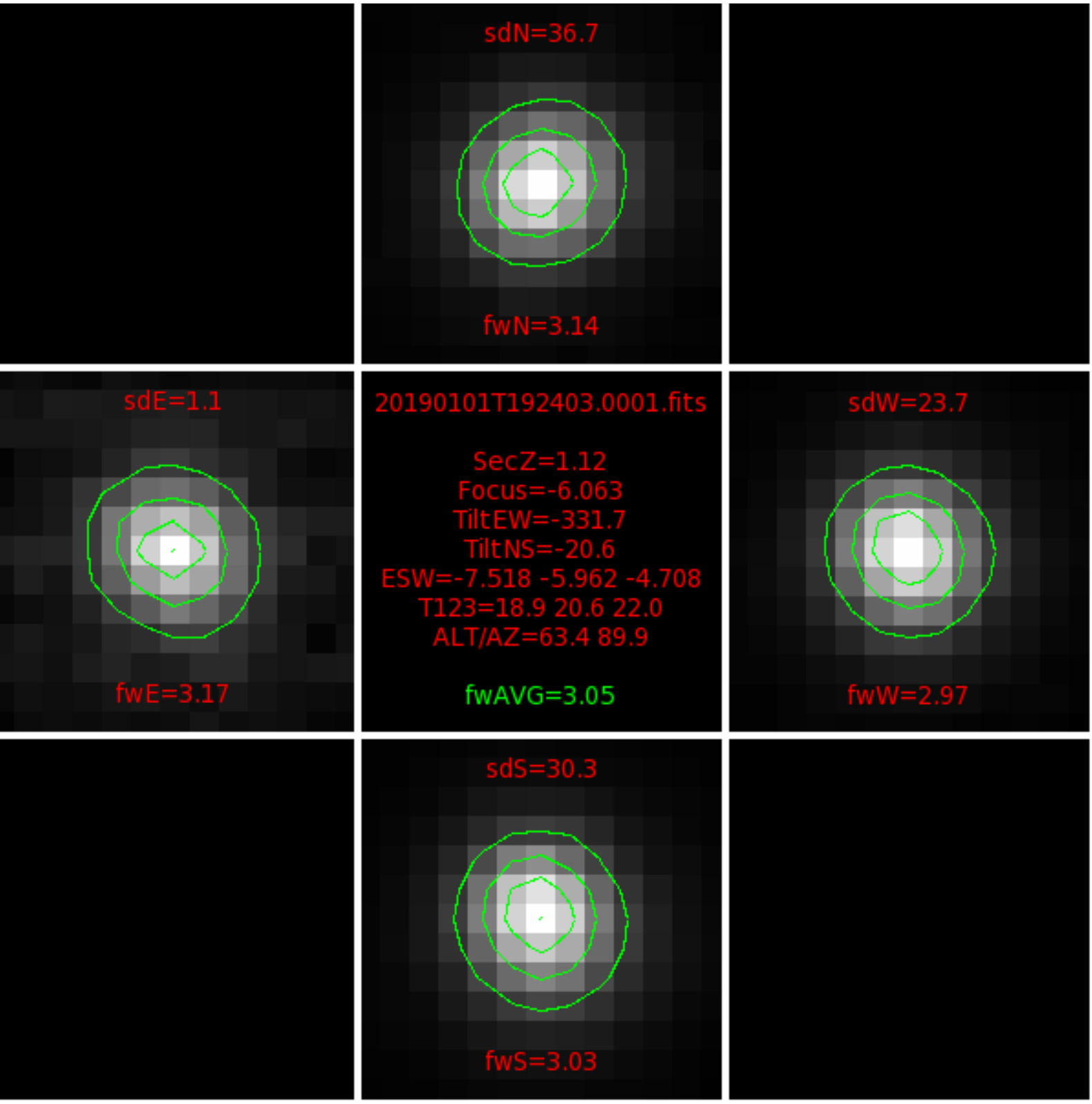
sdN=36.7
fwN=3.14
sdE=1.1
fwE=3.17
20190101T192403.0001.fits
SecZ=1.12
Focus=-6.063
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.518 -5.962 -4.708
T123=18.9 20.6 22.0
ALT/AZ=63.4 89.9
fwAVG=3.05
sdW=23.7
fwW=2.97
sdS=30.3
fwS=3.03
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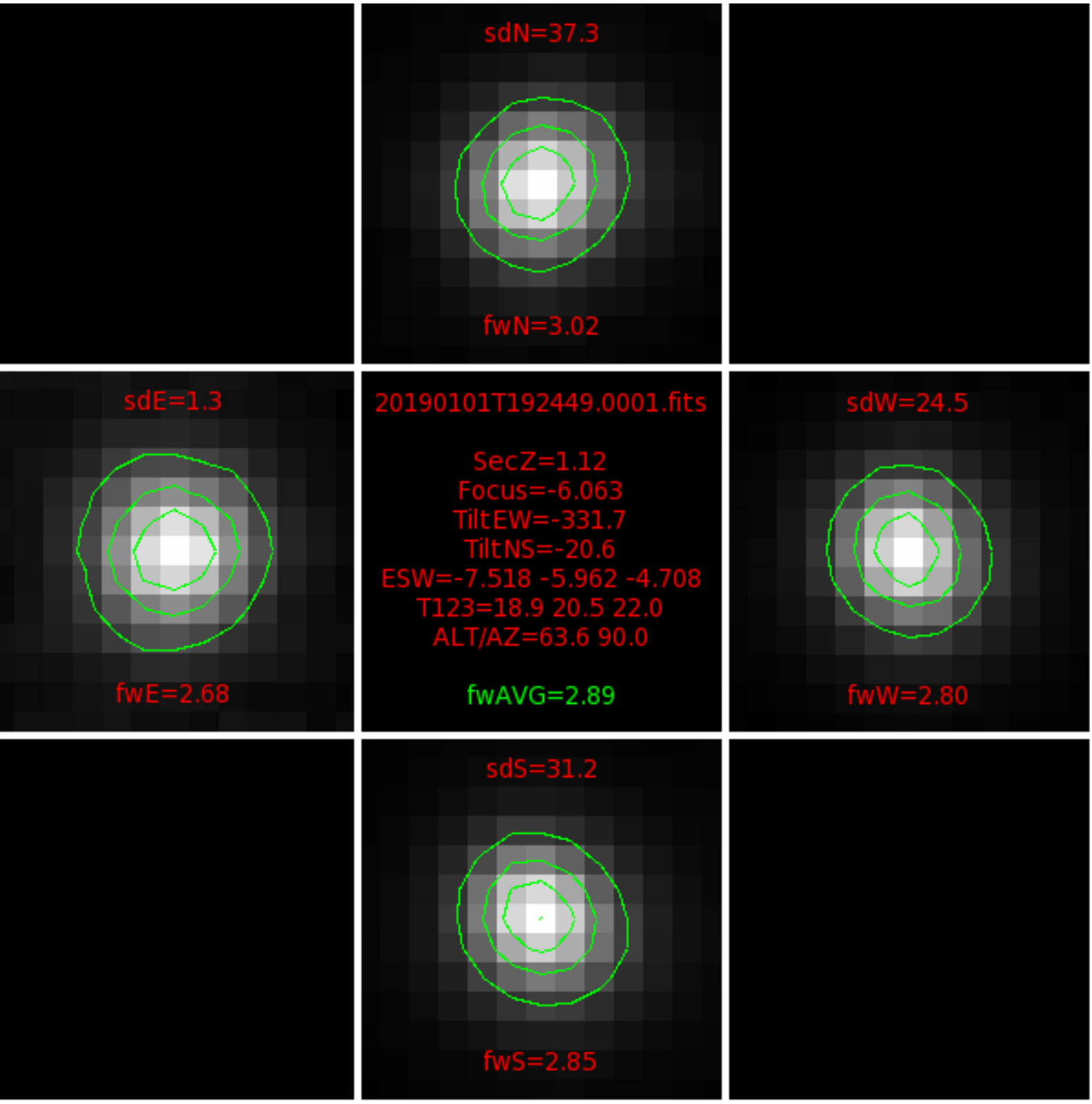
sdN=37.3
fwN=3.02
sdE=1.3
fwE=2.68
20190101T192449.0001.fits
SecZ=1.12
Focus=-6.063
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.518 -5.962 -4.708
T123=18.9 20.5 22.0
ALT/AZ=63.6 90.0
fwAVG=2.89
sdW=24.5
fwW=2.80
sdS=31.2
fwS=2.85
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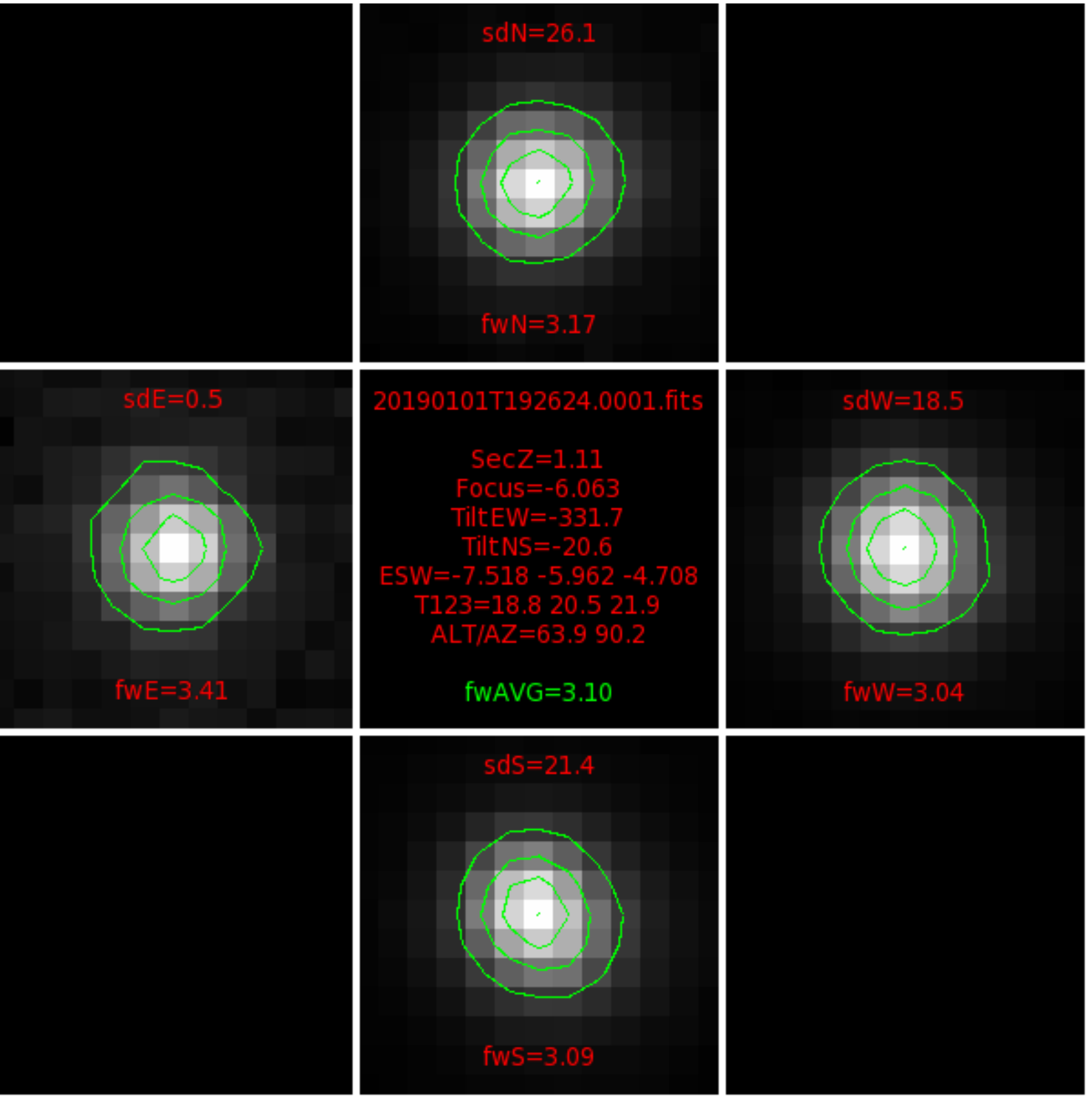
sdN=26.1
fwN=3.17
sdE=0.5
fwE=3.41
20190101T192624.0001.fits
SecZ=1.11
Focus=-6.063
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.518 -5.962 -4.708
T123=18.8 20.5 21.9
ALT/AZ=63.9 90.2
fwAVG=3.10
sdW=18.5
fwW=3.04
sdS=21.4
fwS=3.09
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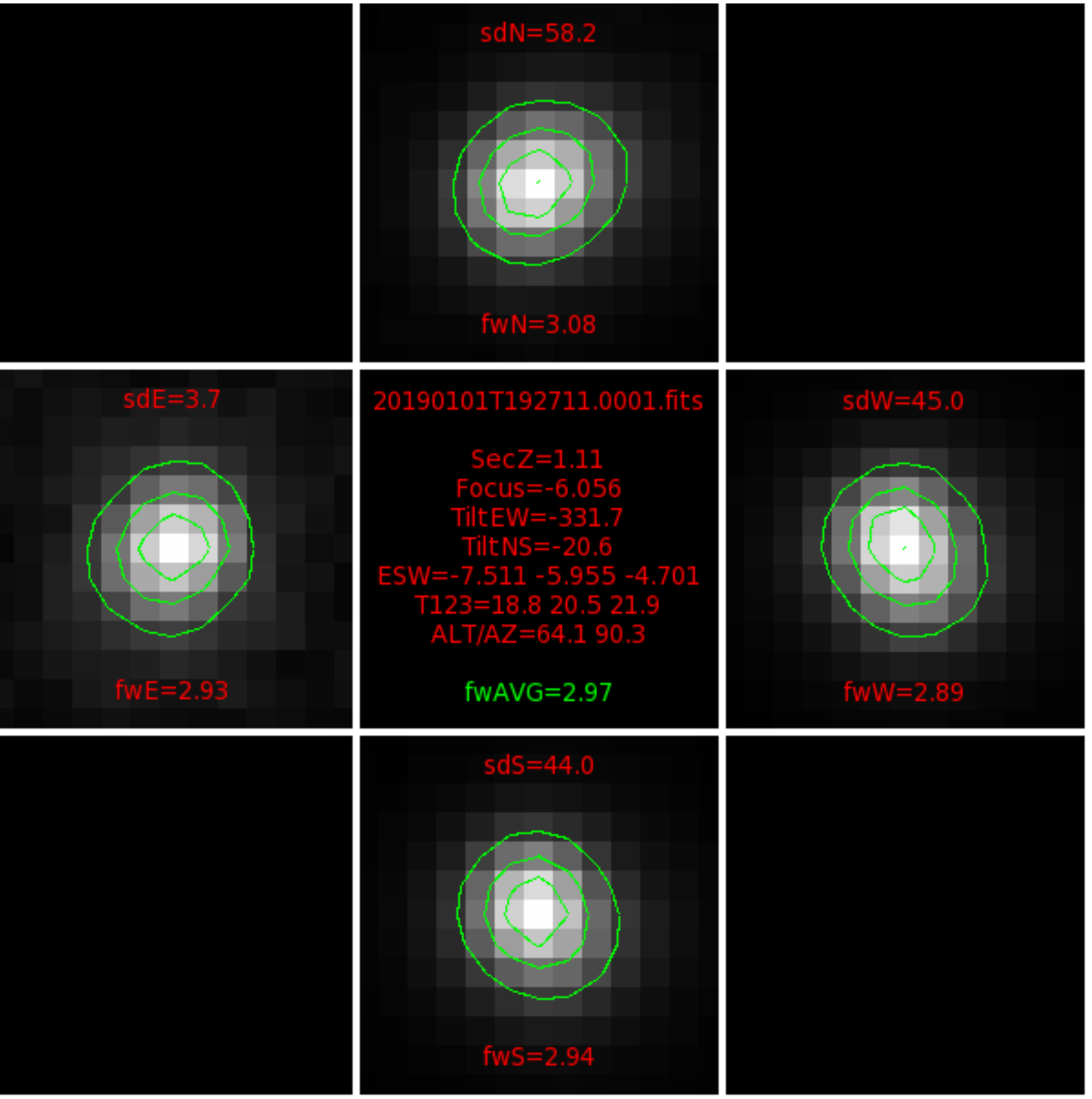
sdN=58.2
fwN=3.08
sdE=3.7
fwE=2.93
20190101T192711.0001.fits
SecZ=1.11
Focus=-6.056
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.511 -5.955 -4.701
T123=18.8 20.5 21.9
ALT/AZ=64.1 90.3
fwAVG=2.97
sdW=45.0
fwW=2.89
sdS=44.0
fwS=2.94
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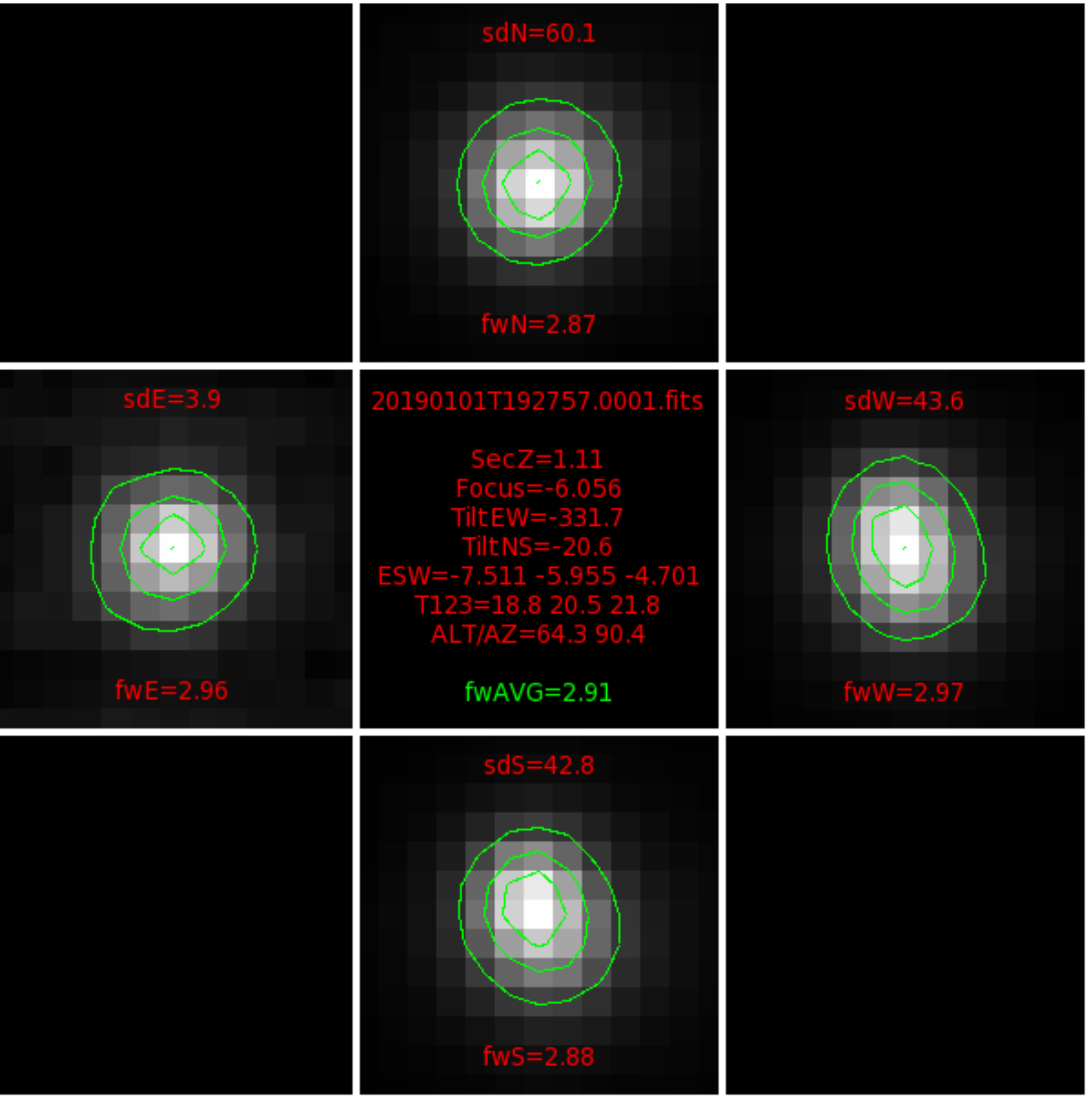
sdN=60.1
fwN=2.87
sdE=3.9
fwE=2.96
20190101T192757.0001.fits
SecZ=1.11
Focus=-6.056
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.511 -5.955 -4.701
T123=18.8 20.5 21.8
ALT/AZ=64.3 90.4
fwAVG=2.91
sdW=43.6
fwW=2.97
sdS=42.8
fwS=2.88
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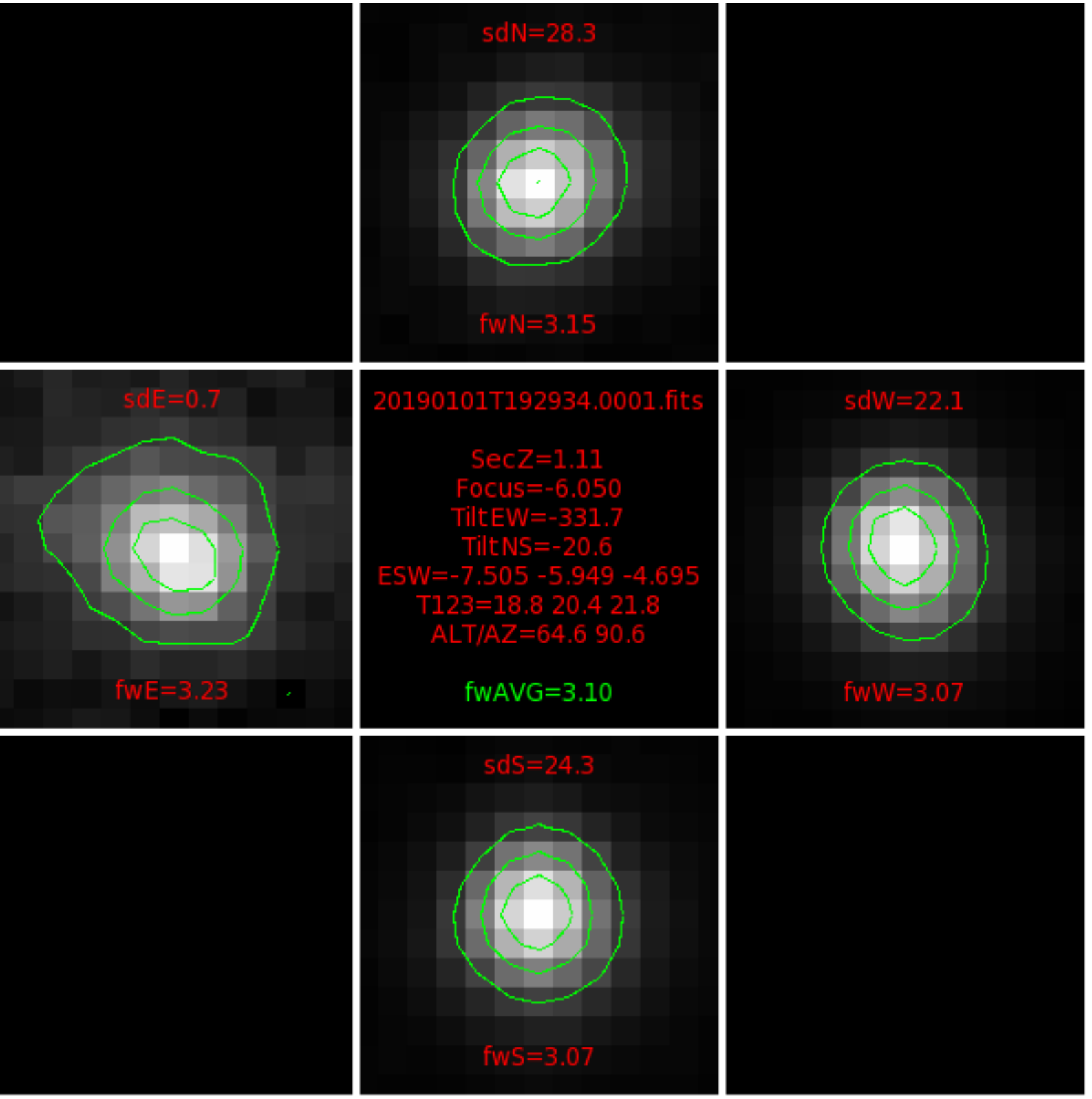
sdN=28.3
fwN=3.15
sdE=0.7
fwE=3.23
20190101T192934.0001.fits
SecZ=1.11
Focus=-6.050
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.505 -5.949 -4.695
T123=18.8 20.4 21.8
ALT/AZ=64.6 90.6
fwAVG=3.10
sdW=22.1
fwW=3.07
sdS=24.3
fwS=3.07
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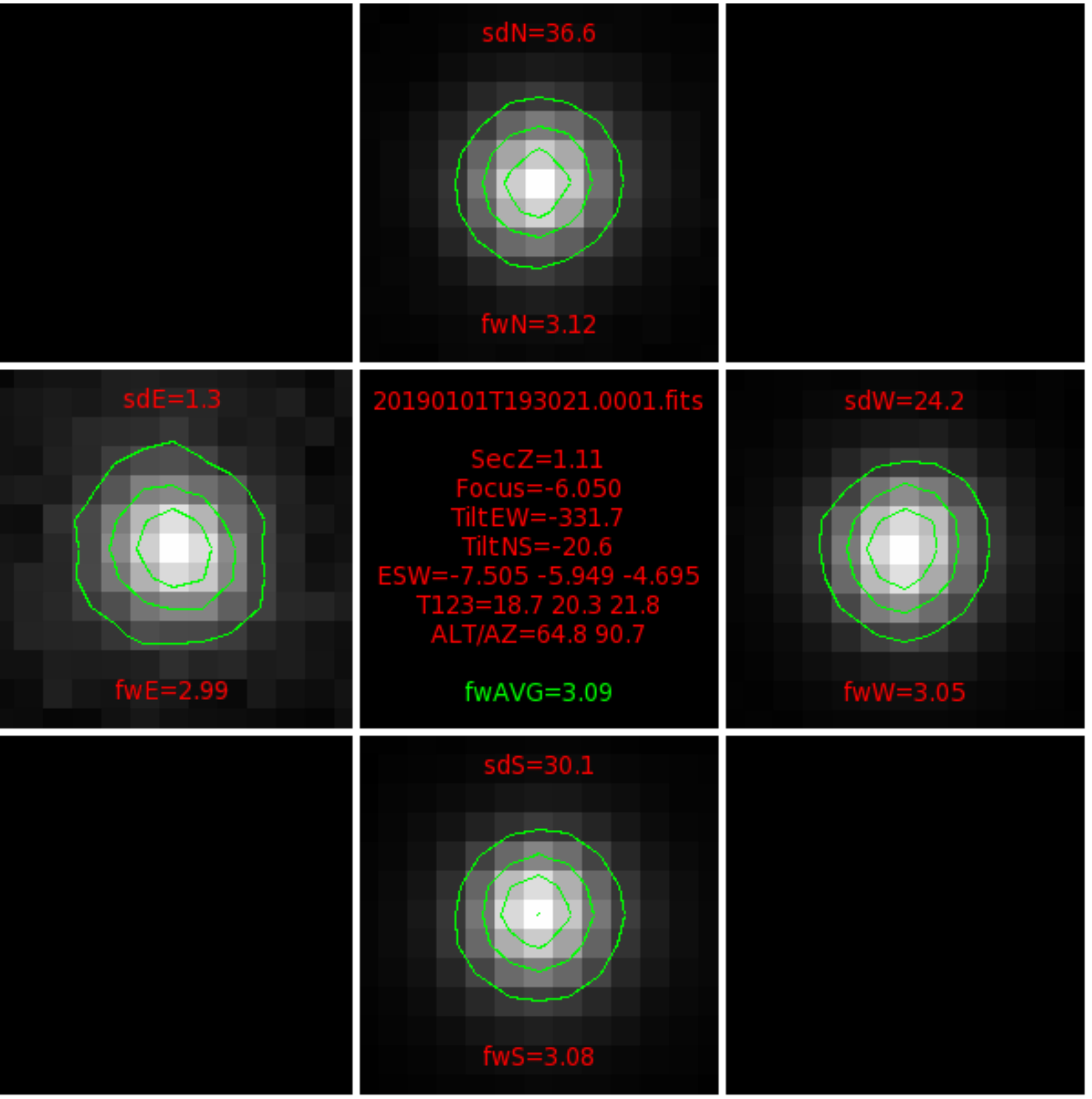
sdN=36.6
fwN=3.12
sdE=1.3
fwE=2.99
20190101T193021.0001.fits
SecZ=1.11
Focus=-6.050
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.505 -5.949 -4.695
T123=18.7 20.3 21.8
ALT/AZ=64.8 90.7
fwAVG=3.09
sdW=24.2
fwW=3.05
sdS=30.1
fwS=3.08
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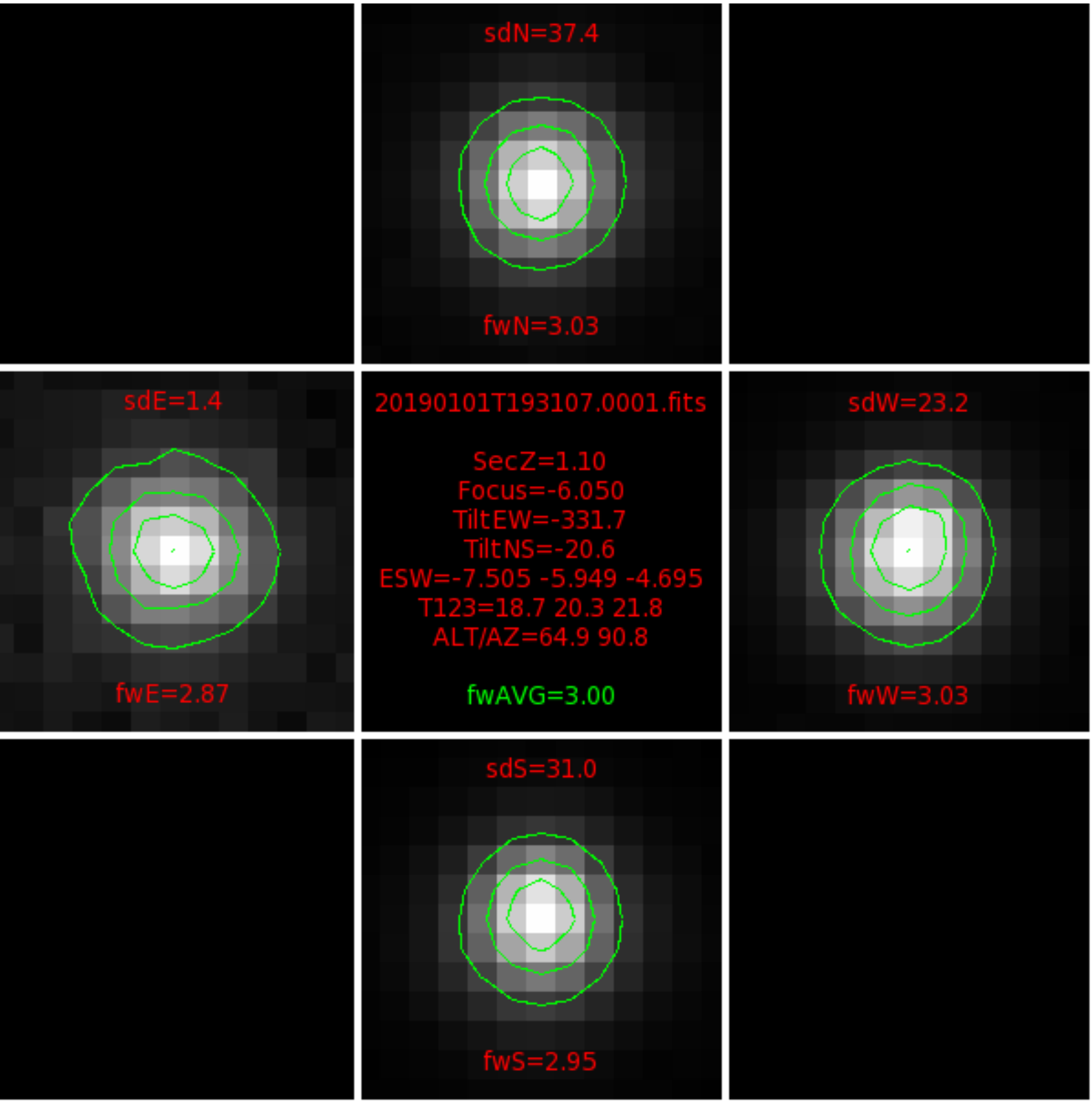
sdN=37.4
fwN=3.03
sdE=1.4
fwE=2.87
20190101T193107.0001.fits
SecZ=1.10
Focus=-6.050
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.505 -5.949 -4.695
T123=18.7 20.3 21.8
ALT/AZ=64.9 90.8
fwAVG=3.00
sdW=23.2
fwW=3.03
sdS=31.0
fwS=2.95
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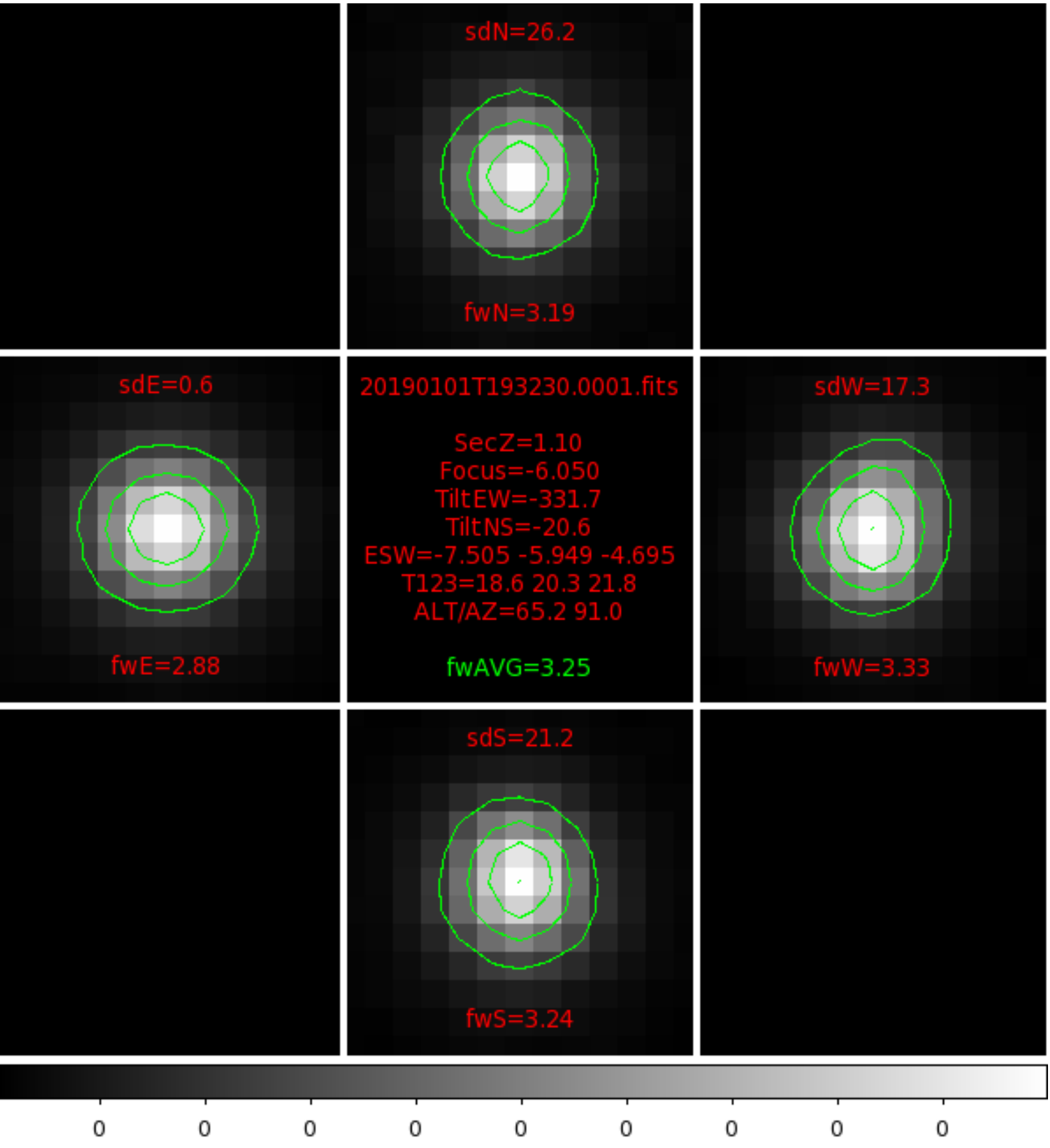
sdN=26.2
fwN=3.19
sdE=0.6
fwE=2.88
20190101T193230.0001.fits
SecZ=1.10
Focus=-6.050
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.505 -5.949 -4.695
T123=18.6 20.3 21.8
ALT/AZ=65.2 91.0
fwAVG=3.25
sdW=17.3
fwW=3.33
sdS=21.2
fwS=3.24
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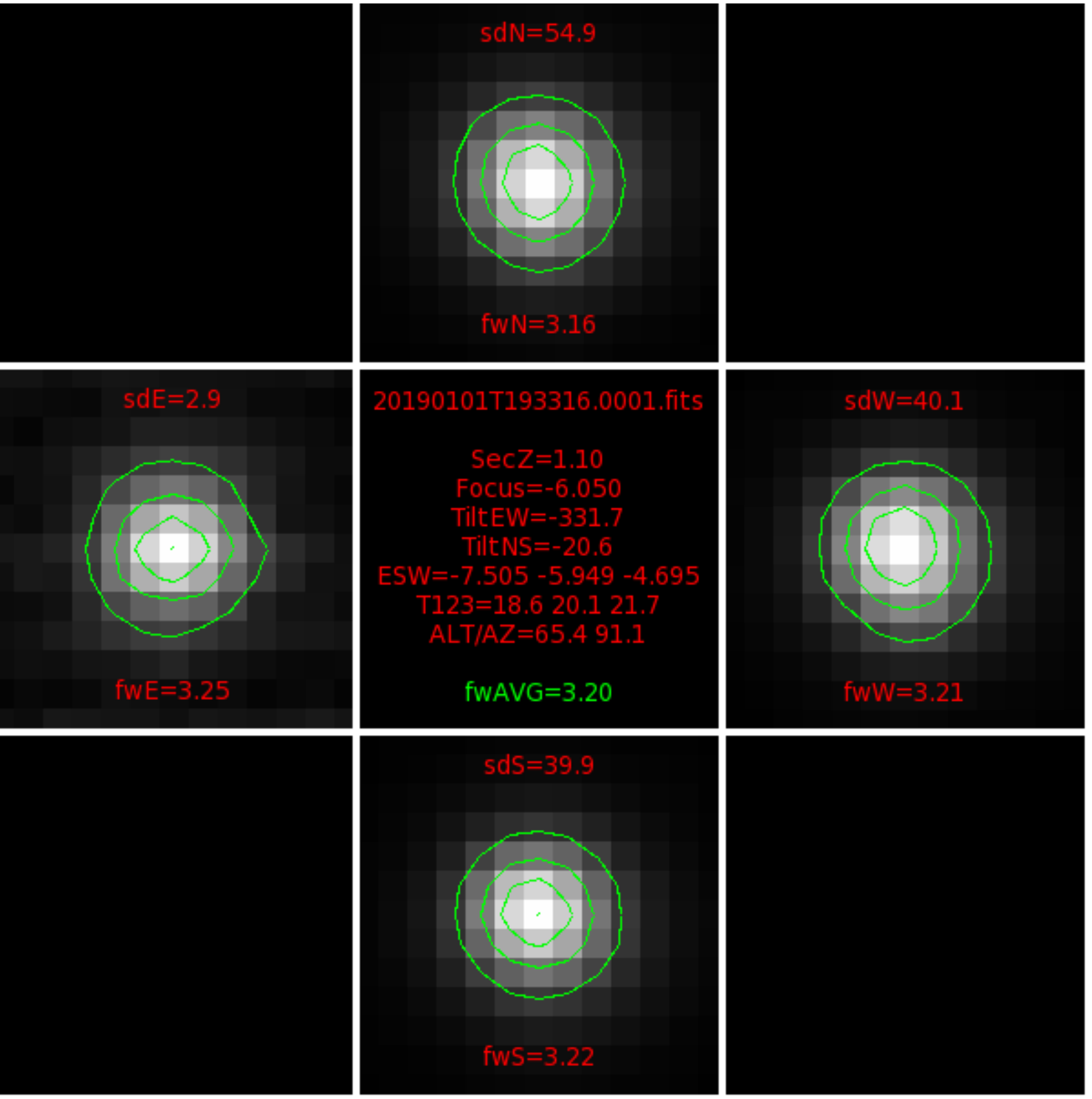
sdN=54.9
fwN=3.16
sdE=2.9
fwE=3.25
20190101T193316.0001.fits
SecZ=1.10
Focus=-6.050
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.505 -5.949 -4.695
T123=18.6 20.1 21.7
ALT/AZ=65.4 91.1
fwAVG=3.20
sdW=40.1
fwW=3.21
sdS=39.9
fwS=3.22
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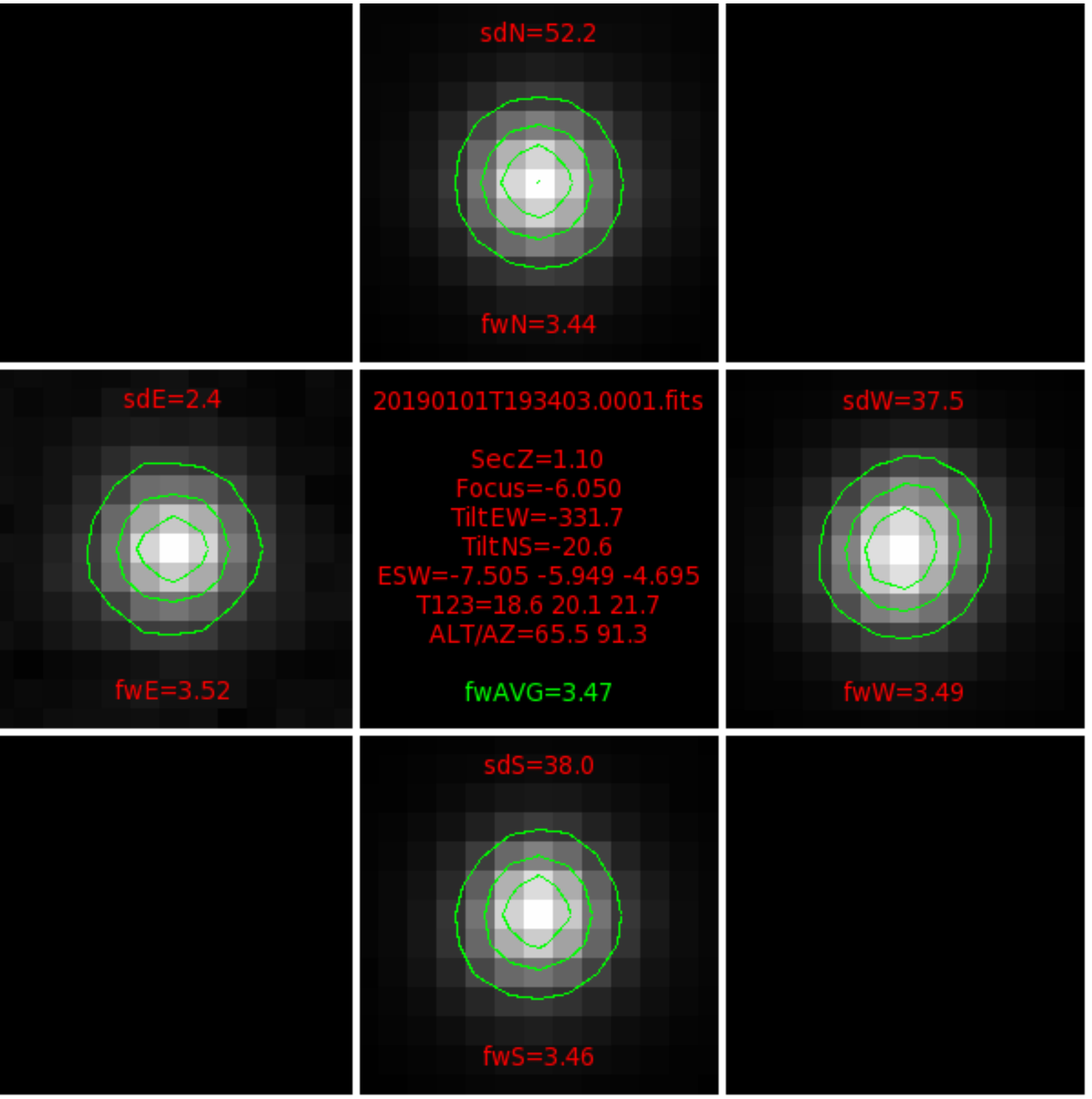
sdN=52.2
fwN=3.44
sdE=2.4
fwE=3.52
20190101T193403.0001.fits
SecZ=1.10
Focus=-6.050
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.505 -5.949 -4.695
T123=18.6 20.1 21.7
ALT/AZ=65.5 91.3
fwAVG=3.47
sdW=37.5
fwW=3.49
sdS=38.0
fwS=3.46
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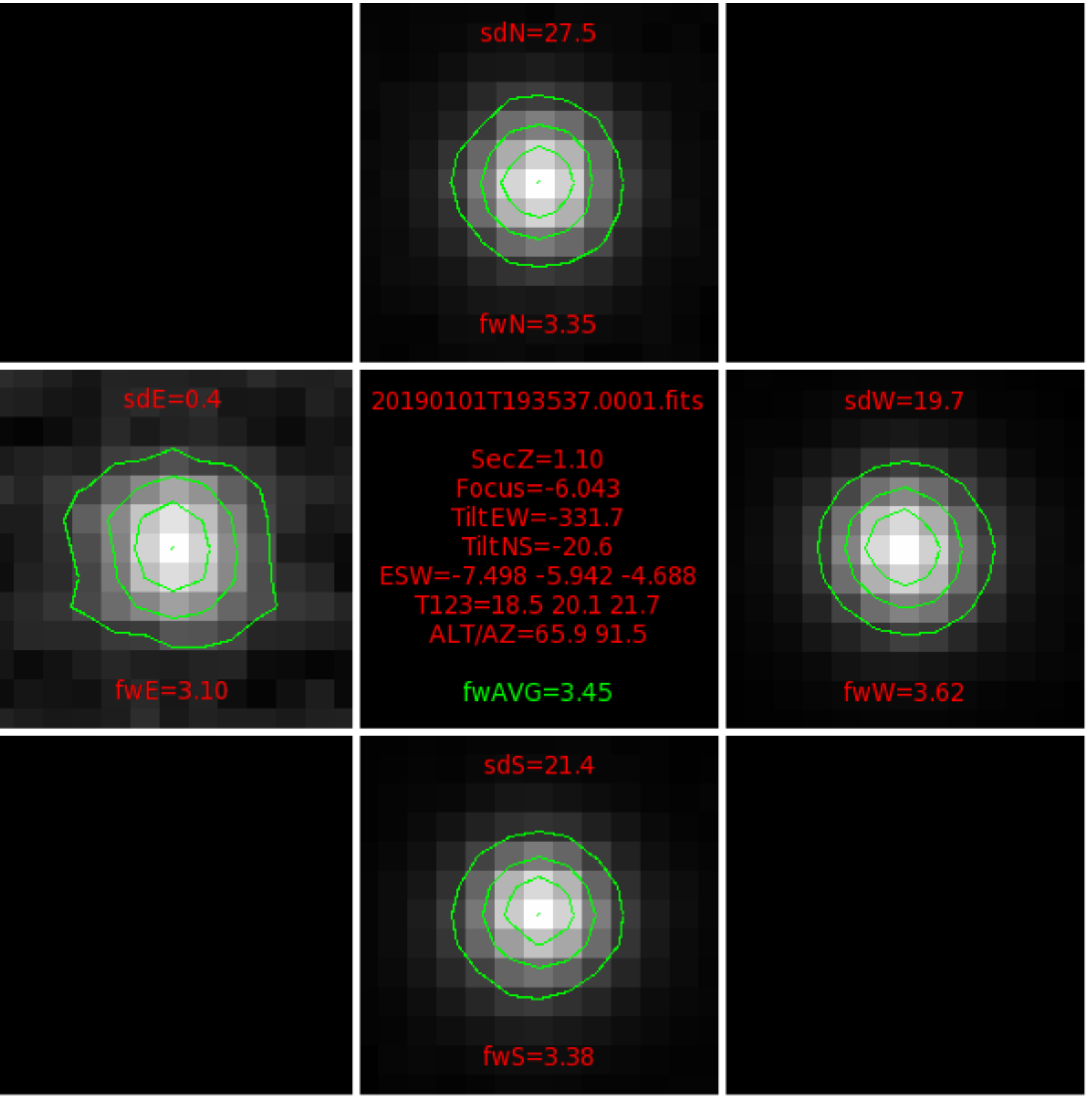
sdN=27.5
fwN=3.35
sdE=0.4
fwE=3.10
20190101T193537.0001.fits
SecZ=1.10
Focus=-6.043
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.498 -5.942 -4.688
T123=18.5 20.1 21.7
ALT/AZ=65.9 91.5
fwAVG=3.45
sdW=19.7
fwW=3.62
sdS=21.4
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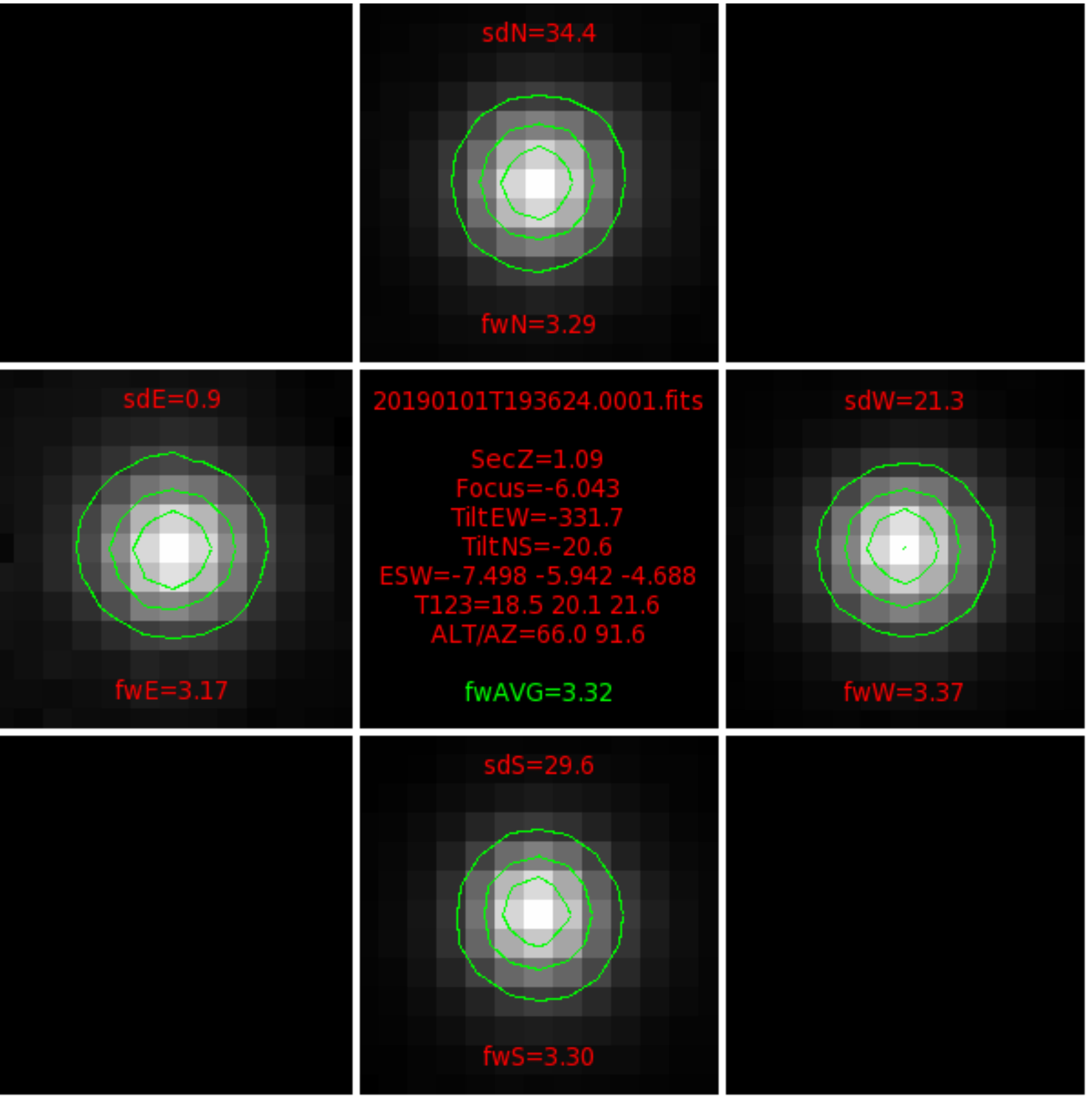
sdN=34.4
fwN=3.29
sdE=0.9
fwE=3.17
20190101T193624.0001.fits
SecZ=1.09
Focus=-6.043
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.498 -5.942 -4.688
T123=18.5 20.1 21.6
ALT/AZ=66.0 91.6
fwAVG=3.32
sdW=21.3
fwW=3.37
sdS=29.6
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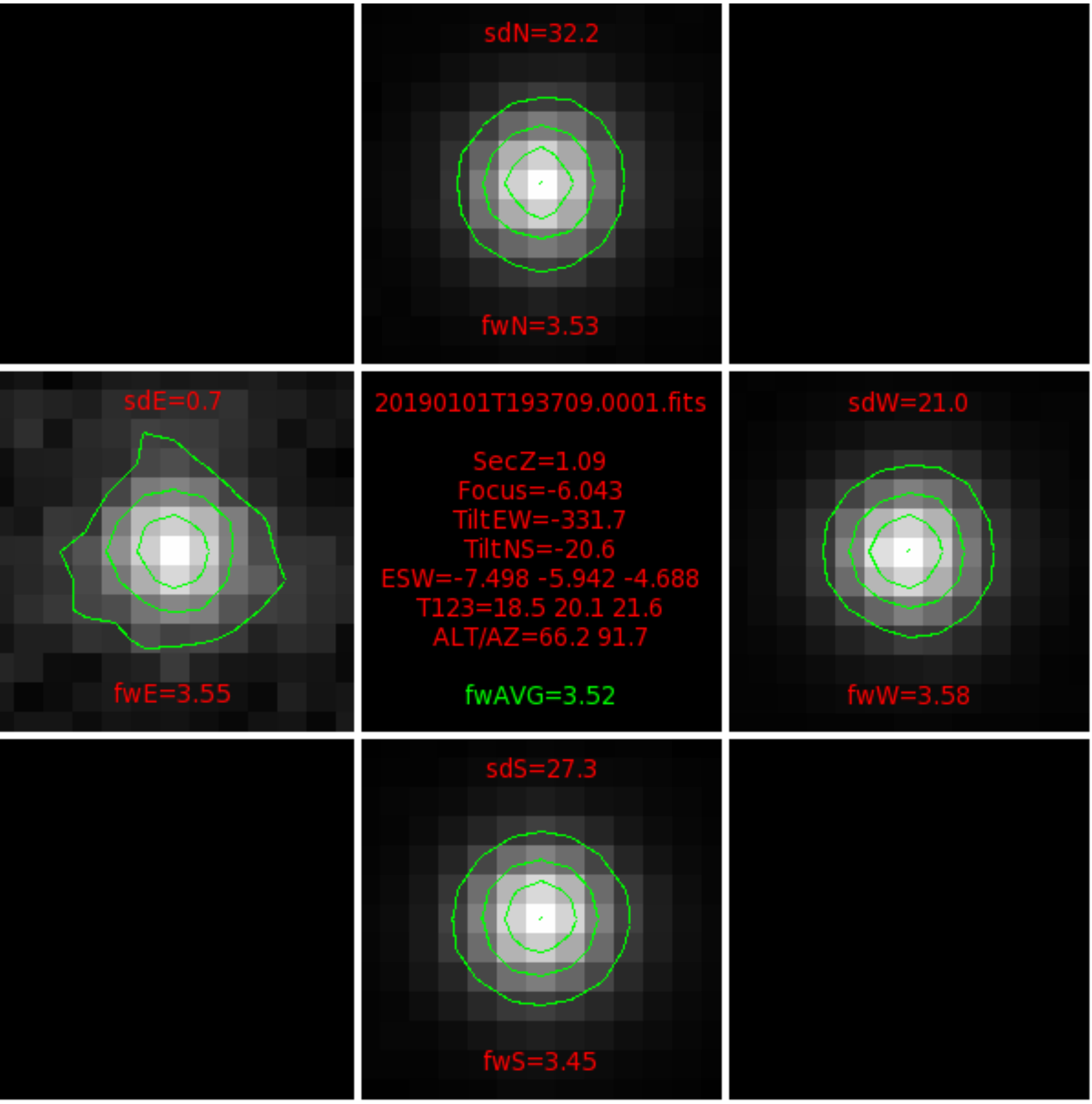
sdN=32.2
fwN=3.53
sdE=0.7
fwE=3.55
20190101T193709.0001.fits
SecZ=1.09
Focus=-6.043
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.498 -5.942 -4.688
T123=18.5 20.1 21.6
ALT/AZ=66.2 91.7
fwAVG=3.52
sdW=21.0
fwW=3.58
sdS=27.3
fwS=3.45
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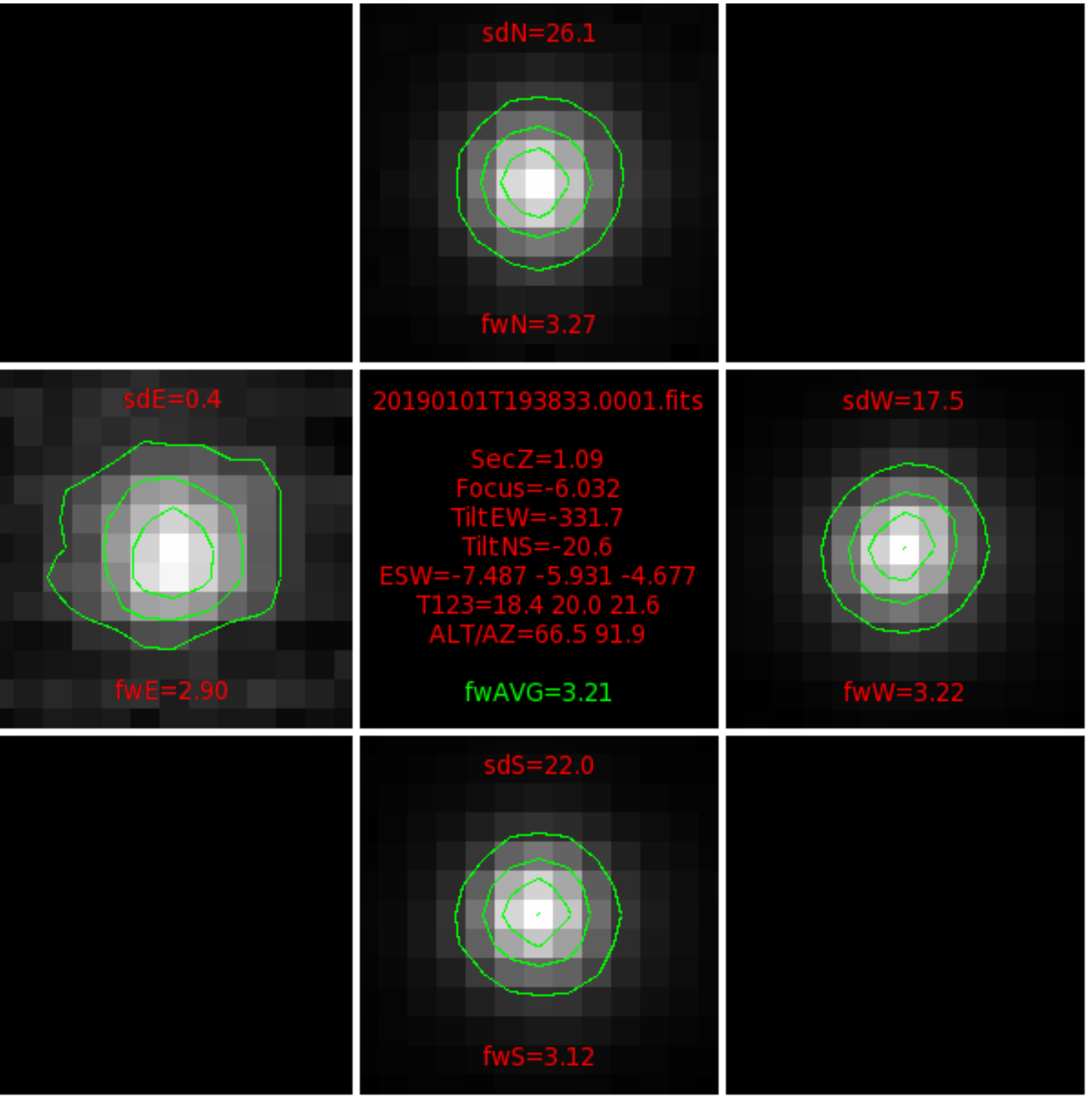
sdN=26.1
fwN=3.27
sdE=0.4
fwE=2.90
20190101T193833.0001.fits
SecZ=1.09
Focus=-6.032
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.487 -5.931 -4.677
T123=18.4 20.0 21.6
ALT/AZ=66.5 91.9
fwAVG=3.21
sdW=17.5
fwW=3.22
sdS=22.0
fwS=3.12
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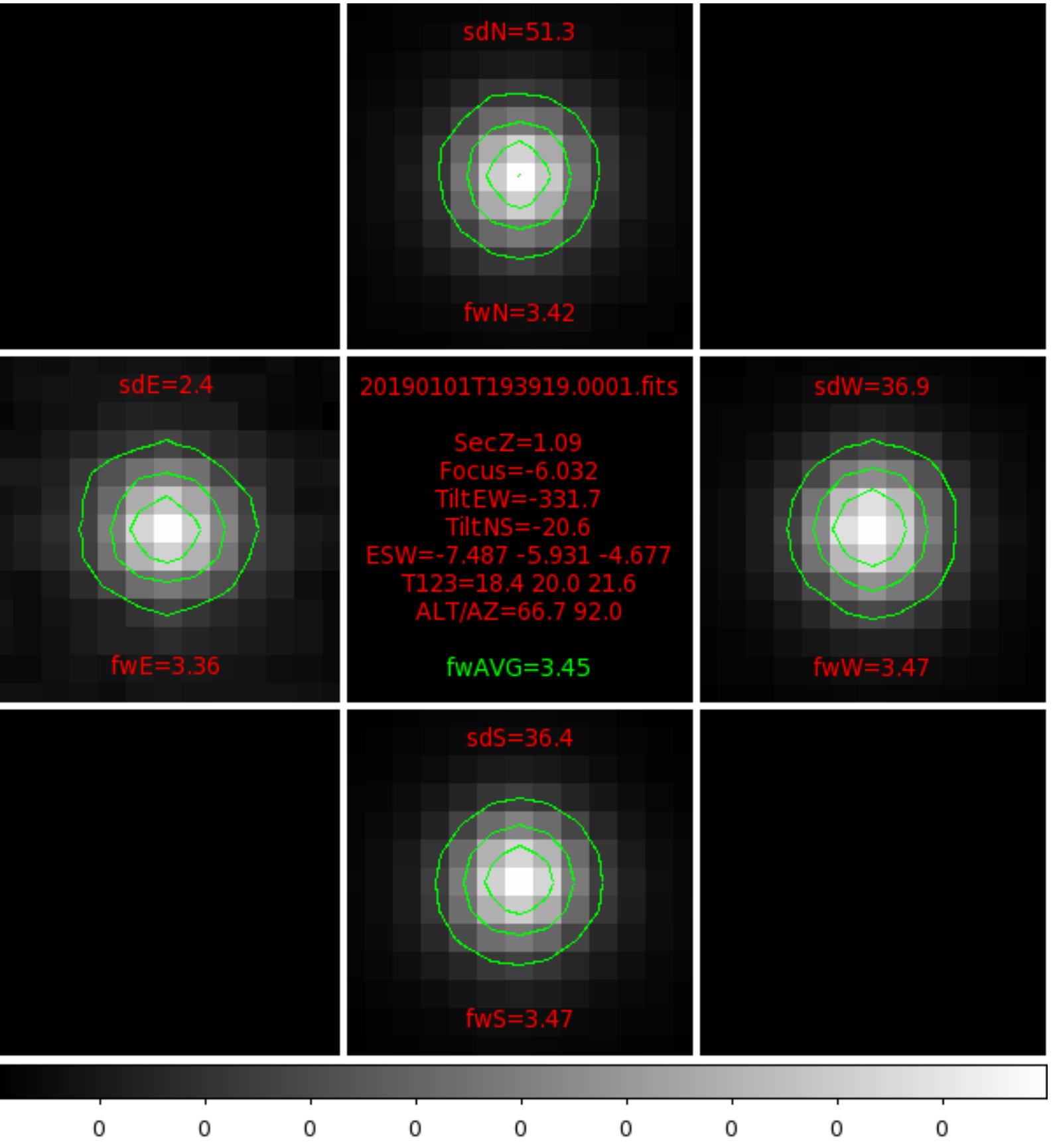
sdN=51.3
fwN=3.42
sdE=2.4
fwE=3.36
20190101T193919.0001.fits
SecZ=1.09
Focus=-6.032
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.487 -5.931 -4.677
T123=18.4 20.0 21.6
ALT/AZ=66.7 92.0
fwAVG=3.45
sdW=36.9
fwW=3.47
sdS=36.4
fwS=3.47
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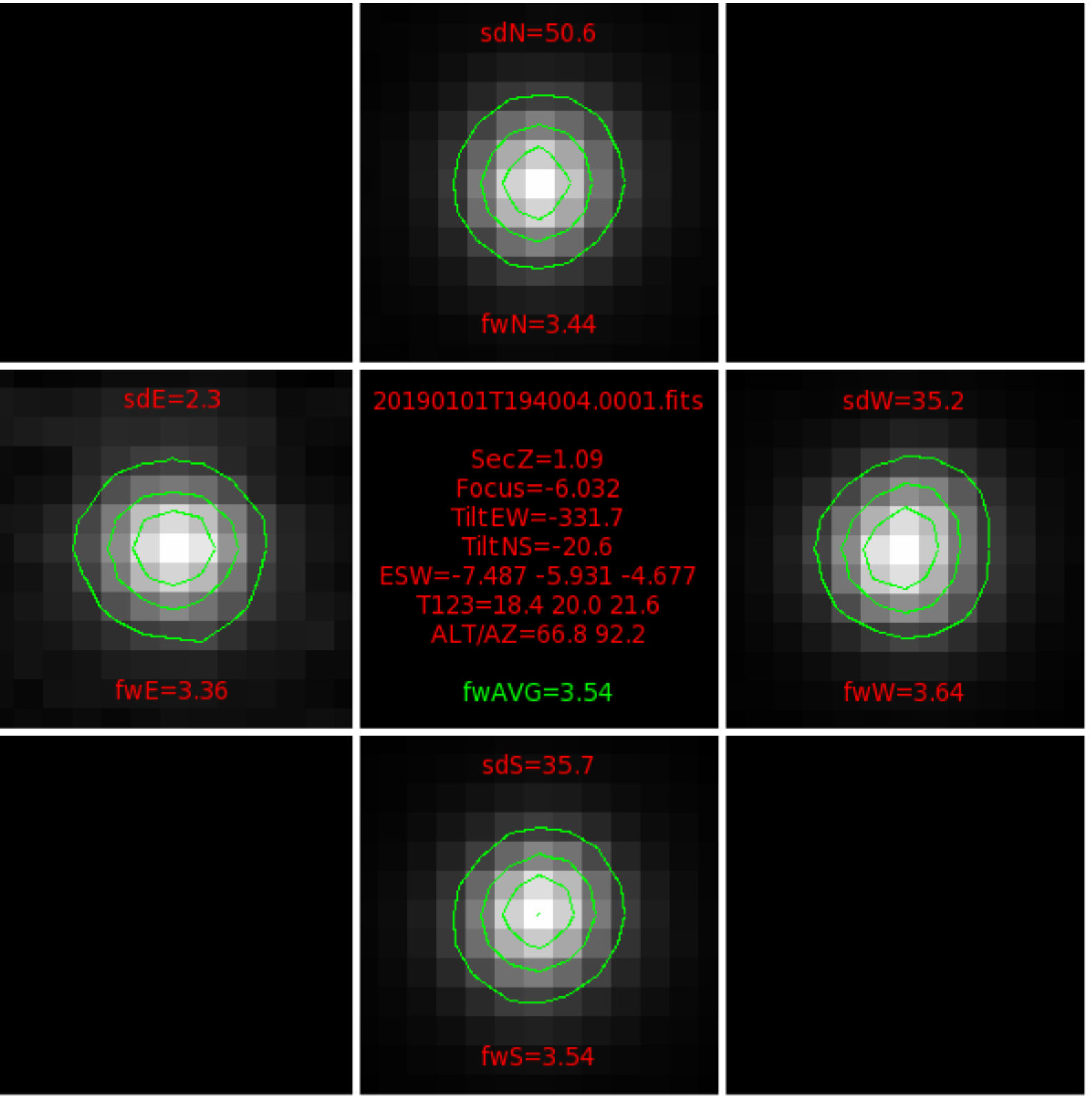
sdN=50.6
fwN=3.44
sdE=2.3
fwE=3.36
20190101T194004.0001.fits
SecZ=1.09
Focus=-6.032
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.487 -5.931 -4.677
T123=18.4 20.0 21.6
ALT/AZ=66.8 92.2
fwAVG=3.54
sdW=35.2
fwW=3.64
sdS=35.7
fwS=3.54
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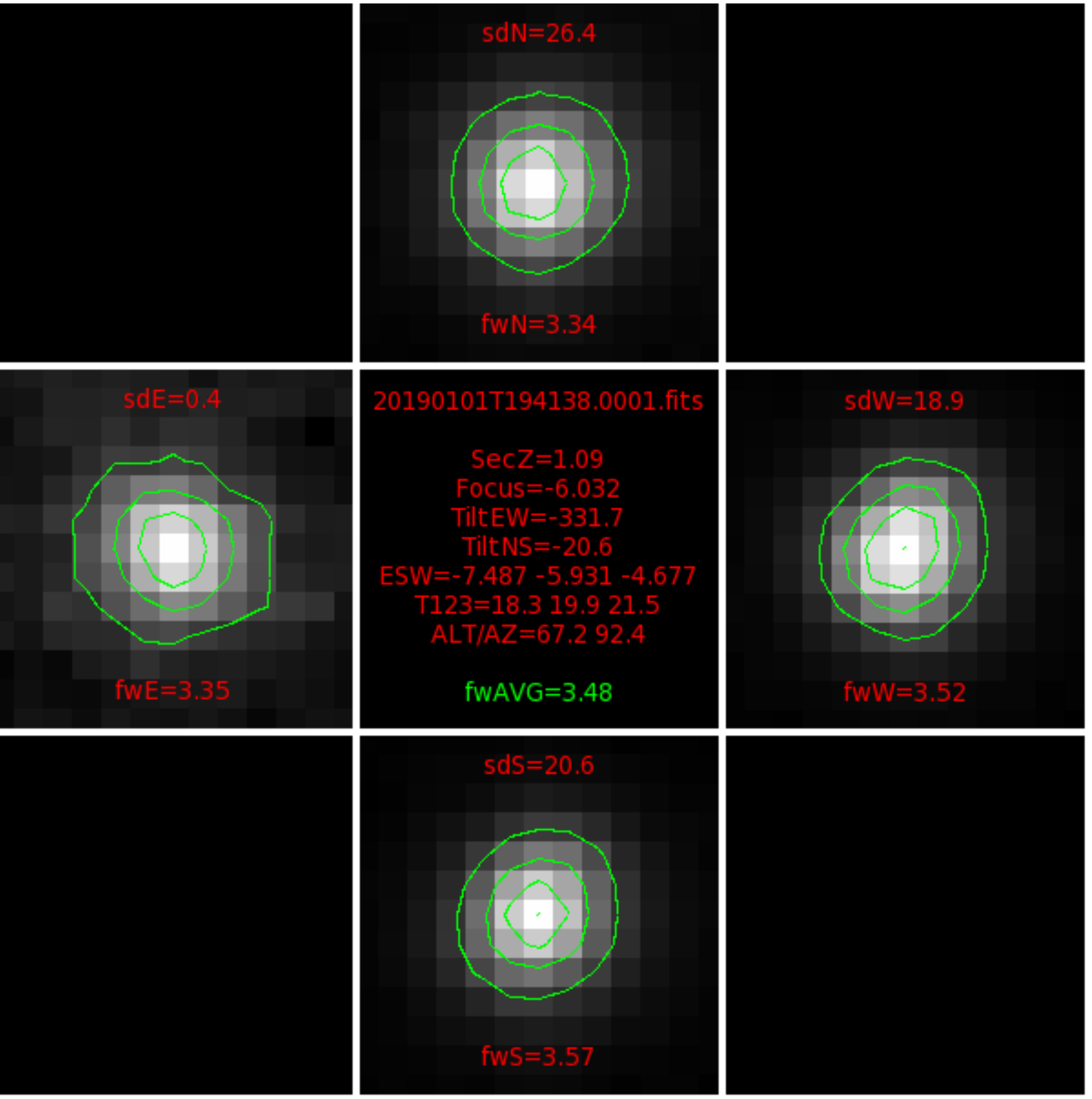
sdN=26.4
fwN=3.34
sdE=0.4
fwE=3.35
20190101T194138.0001.fits
SecZ=1.09
Focus=-6.032
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.487 -5.931 -4.677
T123=18.3 19.9 21.5
ALT/AZ=67.2 92.4
fwAVG=3.48
sdW=18.9
fwW=3.52
sdS=20.6
fwS=3.57
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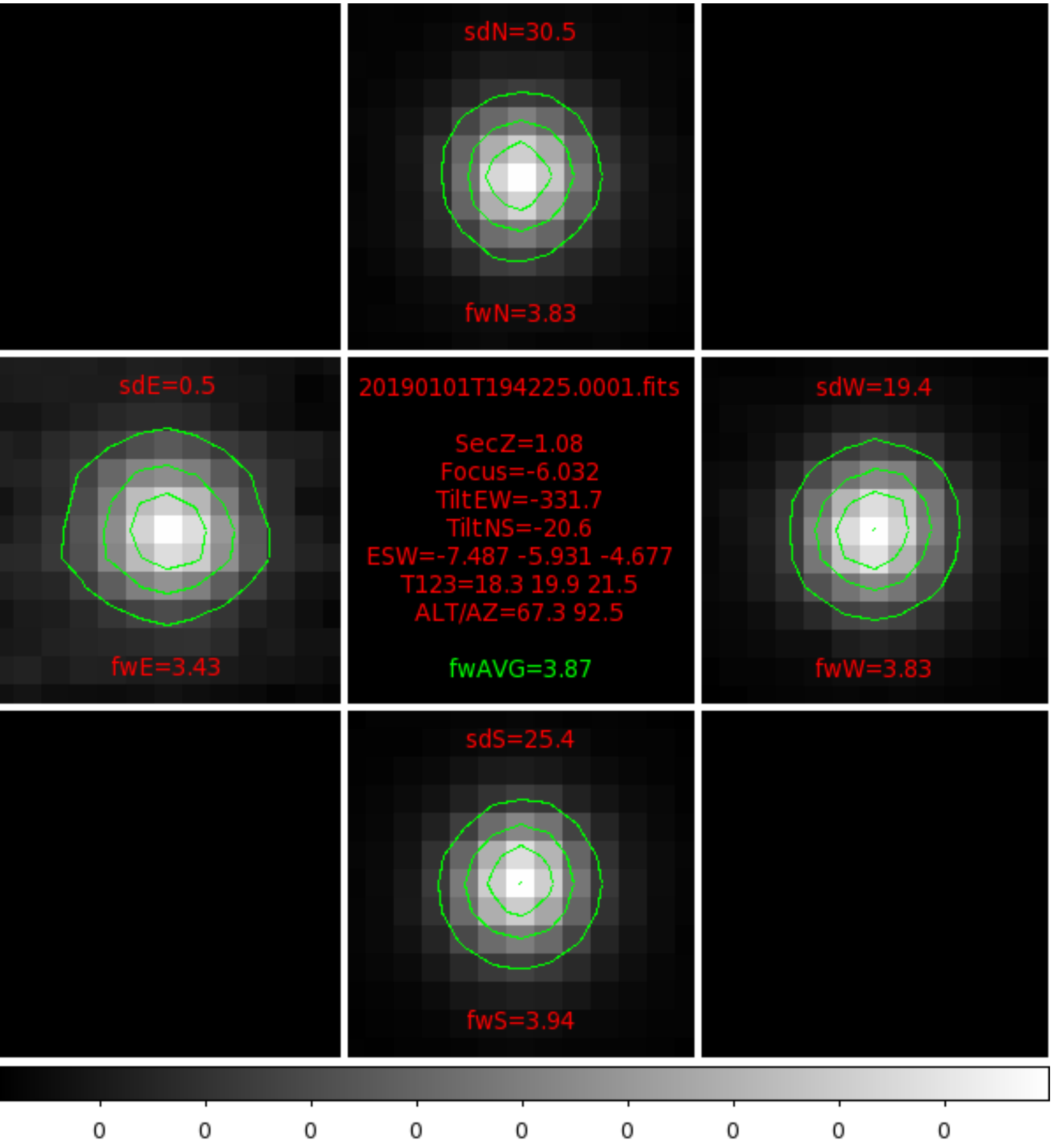
sdN=30.5
fwN=3.83
sdE=0.5
fwE=3.43
20190101T194225.0001.fits
SecZ=1.08
Focus=-6.032
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.487 -5.931 -4.677
T123=18.3 19.9 21.5
ALT/AZ=67.3 92.5
fwAVG=3.87
sdW=19.4
fwW=3.83
sdS=25.4
fwS=3.94
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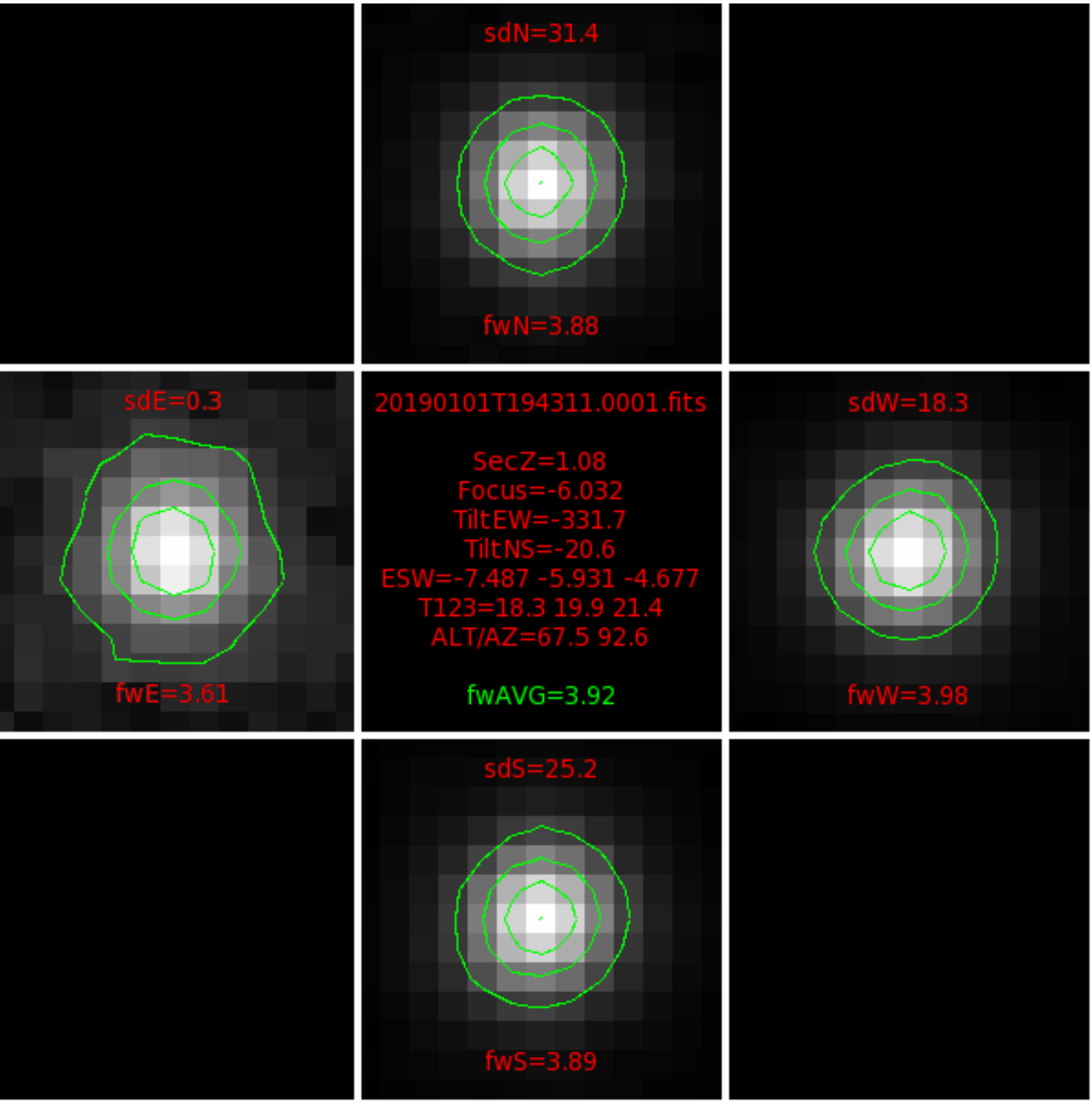
sdN=31.4
fwN=3.88
sdE=0.3
fwE=3.61
20190101T194311.0001.fits
SecZ=1.08
Focus=-6.032
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.487 -5.931 -4.677
T123=18.3 19.9 21.4
ALT/AZ=67.5 92.6
fwAVG=3.92
sdW=18.3
fwW=3.98
sdS=25.2
fwS=3.89
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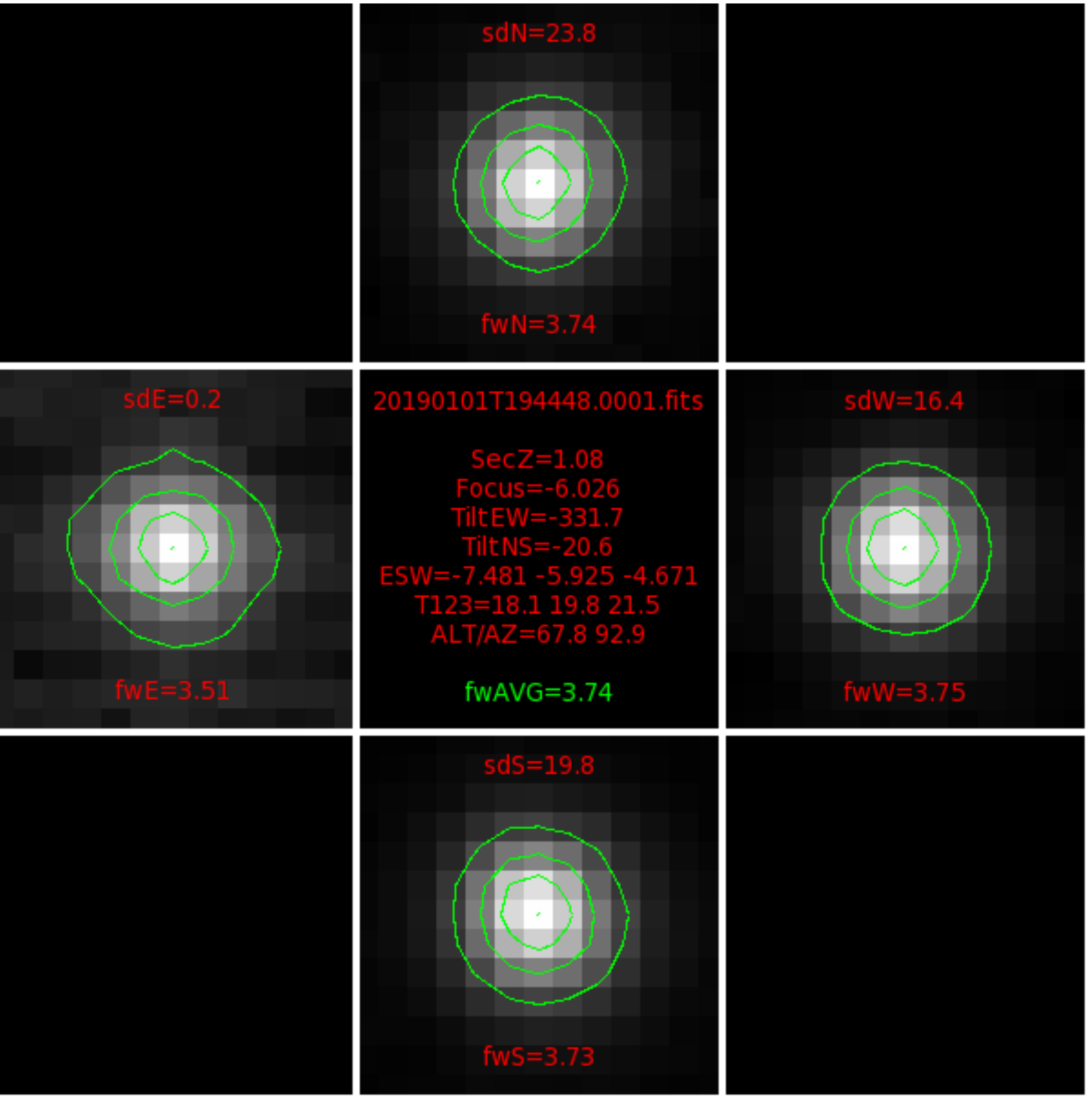
sdN=23.8
fwN=3.74
sdE=0.2
fwE=3.51
20190101T194448.0001.fits
SecZ=1.08
Focus=-6.026
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.481 -5.925 -4.671
T123=18.1 19.8 21.5
ALT/AZ=67.8 92.9
fwAVG=3.74
sdW=16.4
fwW=3.75
sdS=19.8
fwS=3.73
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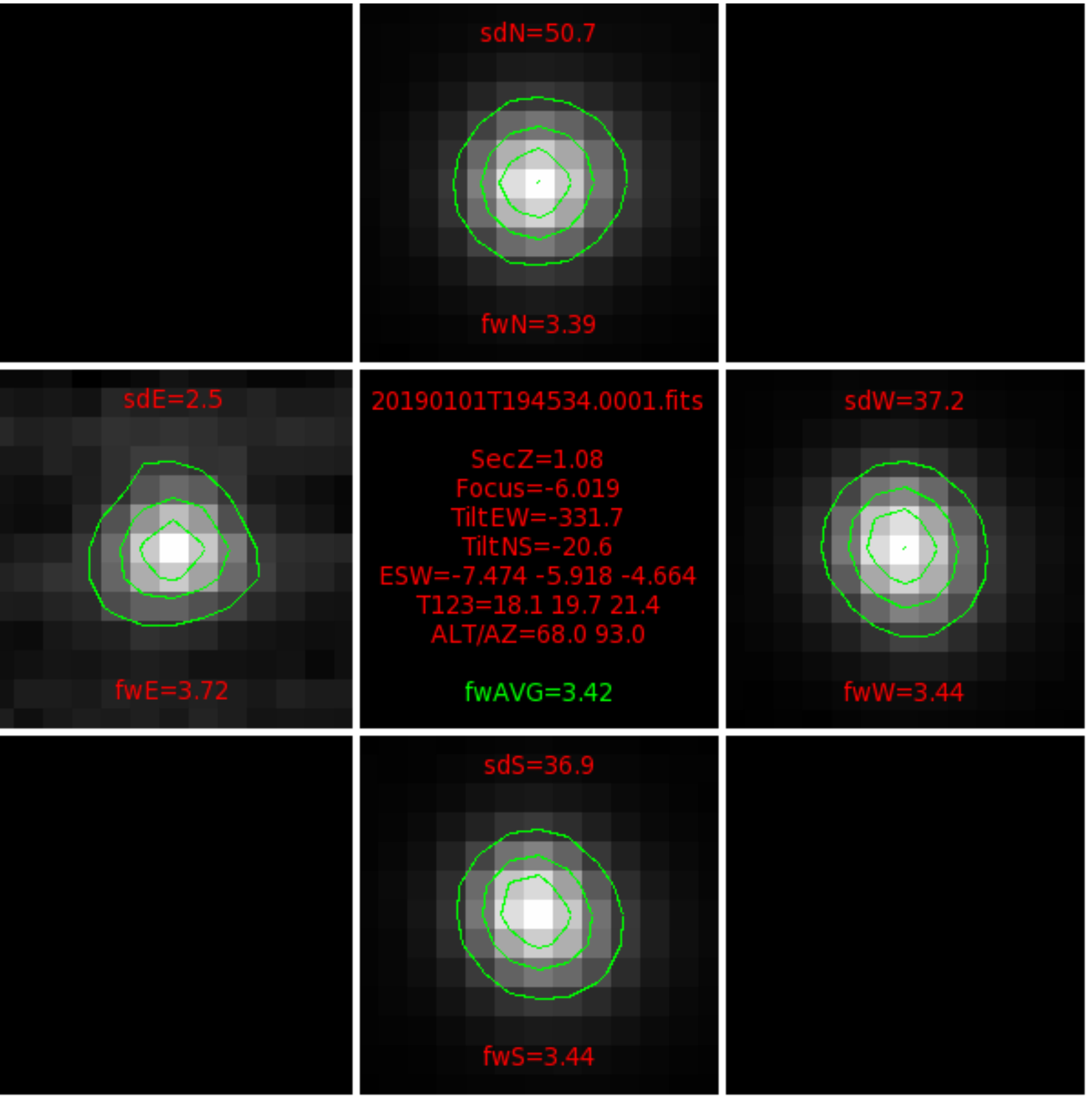
sdN=50.7
fwN=3.39
sdE=2.5
fwE=3.72
20190101T194534.0001.fits
SecZ=1.08
Focus=-6.019
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.474 -5.918 -4.664
T123=18.1 19.7 21.4
ALT/AZ=68.0 93.0
fwAVG=3.42
sdW=37.2
fwW=3.44
sdS=36.9
fwS=3.44
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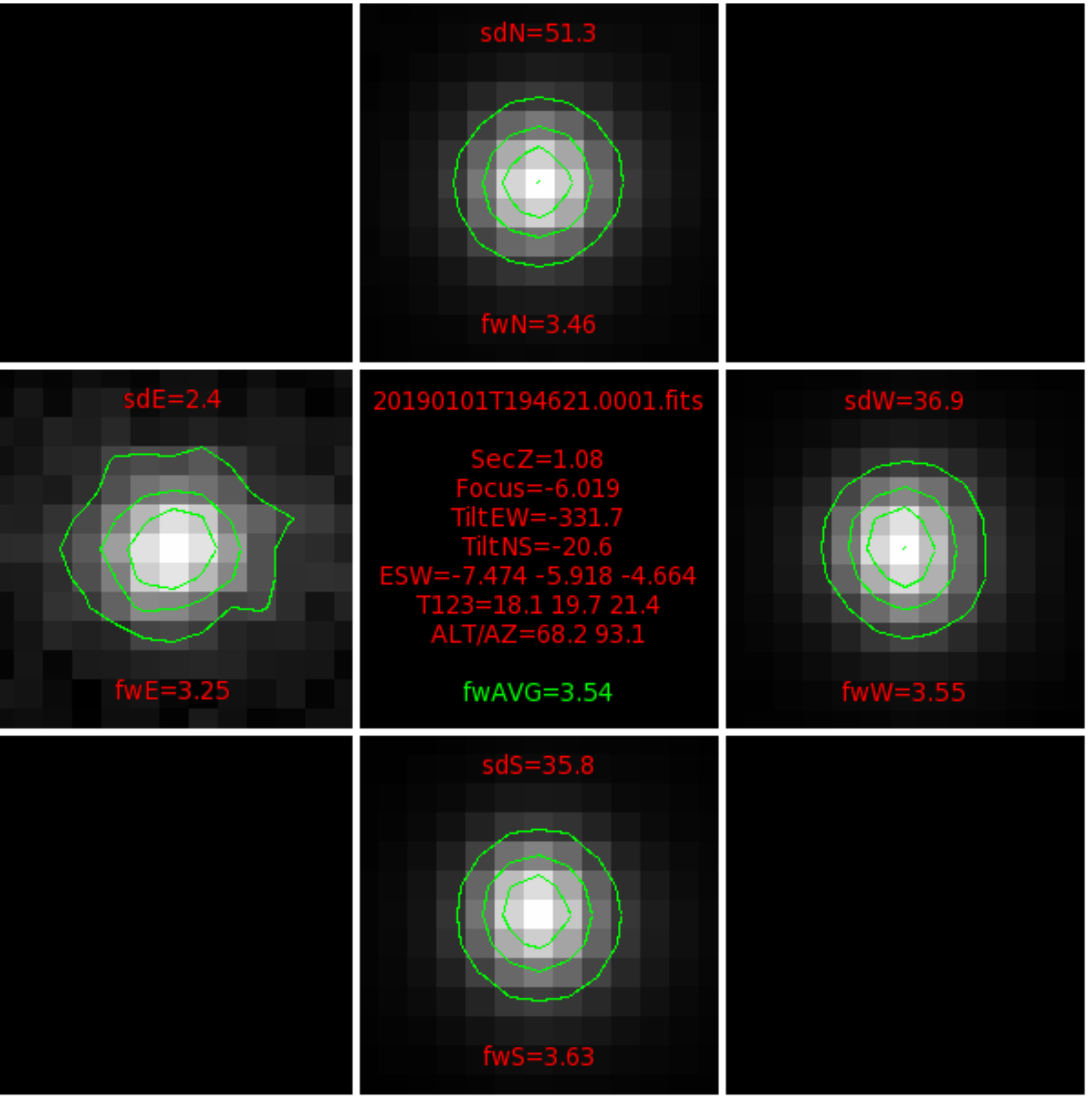
sdN=51.3
fwN=3.46
sdE=2.4
fwE=3.25
20190101T194621.0001.fits
SecZ=1.08
Focus=-6.019
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.474 -5.918 -4.664
T123=18.1 19.7 21.4
ALT/AZ=68.2 93.1
fwAVG=3.54
sdW=36.9
fwW=3.55
sdS=35.8
fwS=3.63
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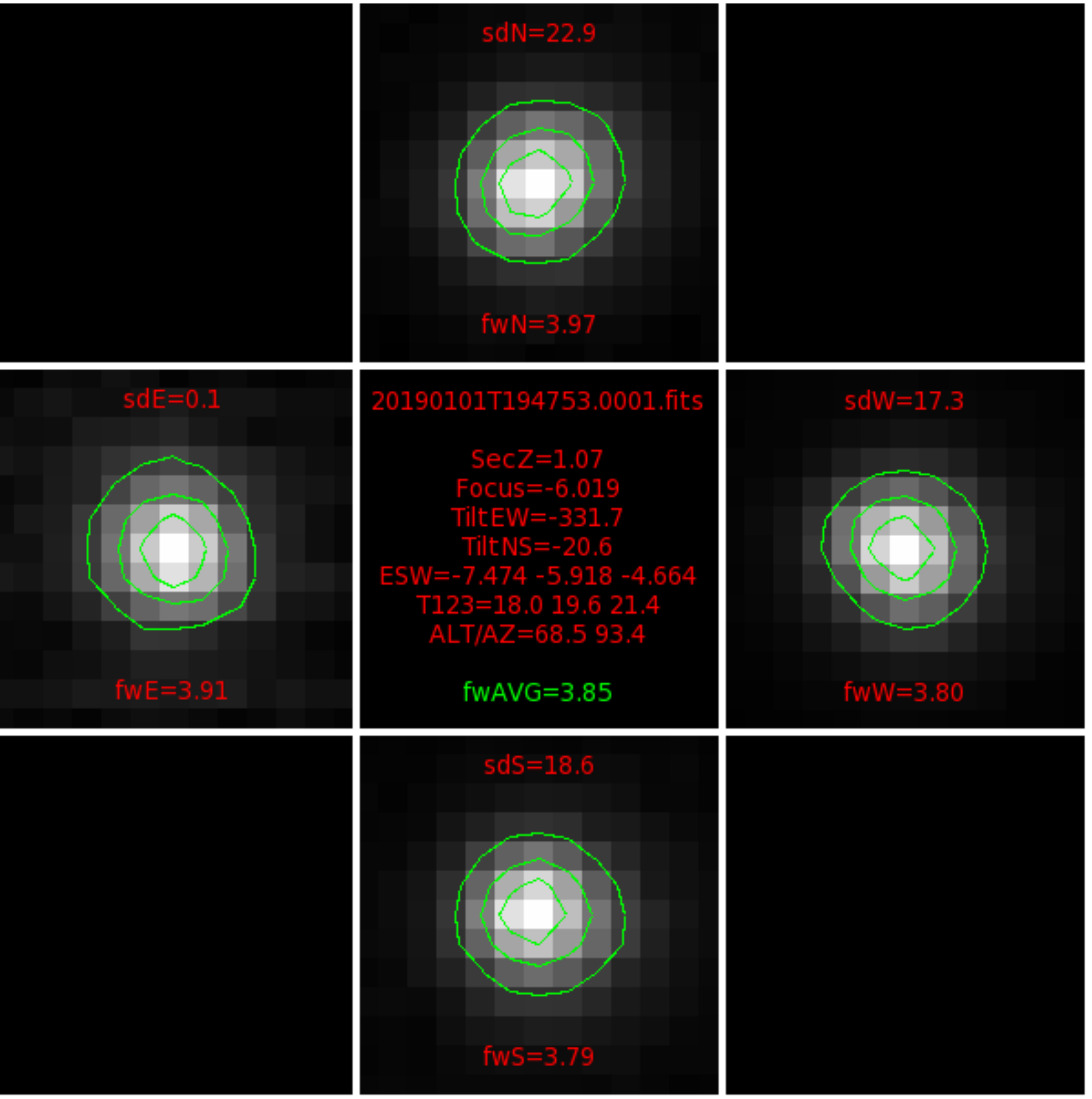
sdN=22.9
fwN=3.97
sdE=0.1
fwE=3.91
20190101T194753.0001.fits
SecZ=1.07
Focus=-6.019
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.474 -5.918 -4.664
T123=18.0 19.6 21.4
ALT/AZ=68.5 93.4
fwAVG=3.85
sdW=17.3
fwW=3.80
sdS=18.6
fwS=3.79
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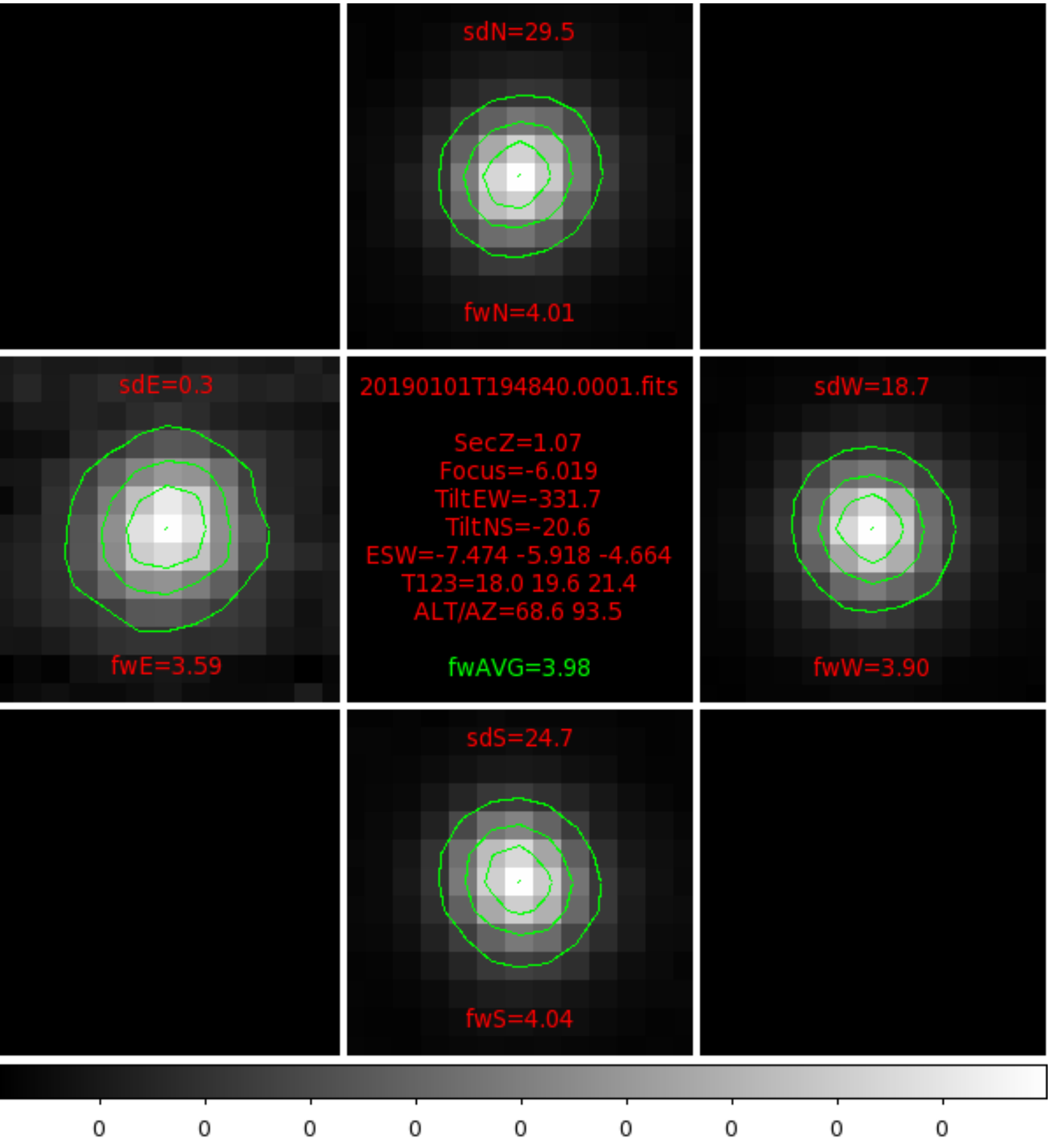
sdN=29.5
fwN=4.01
sdE=0.3
fwE=3.59
20190101T194840.0001.fits
SecZ=1.07
Focus=-6.019
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.474 -5.918 -4.664
T123=18.0 19.6 21.4
ALT/AZ=68.6 93.5
fwAVG=3.98
sdW=18.7
fwW=3.90
sdS=24.7
fwS=4.04
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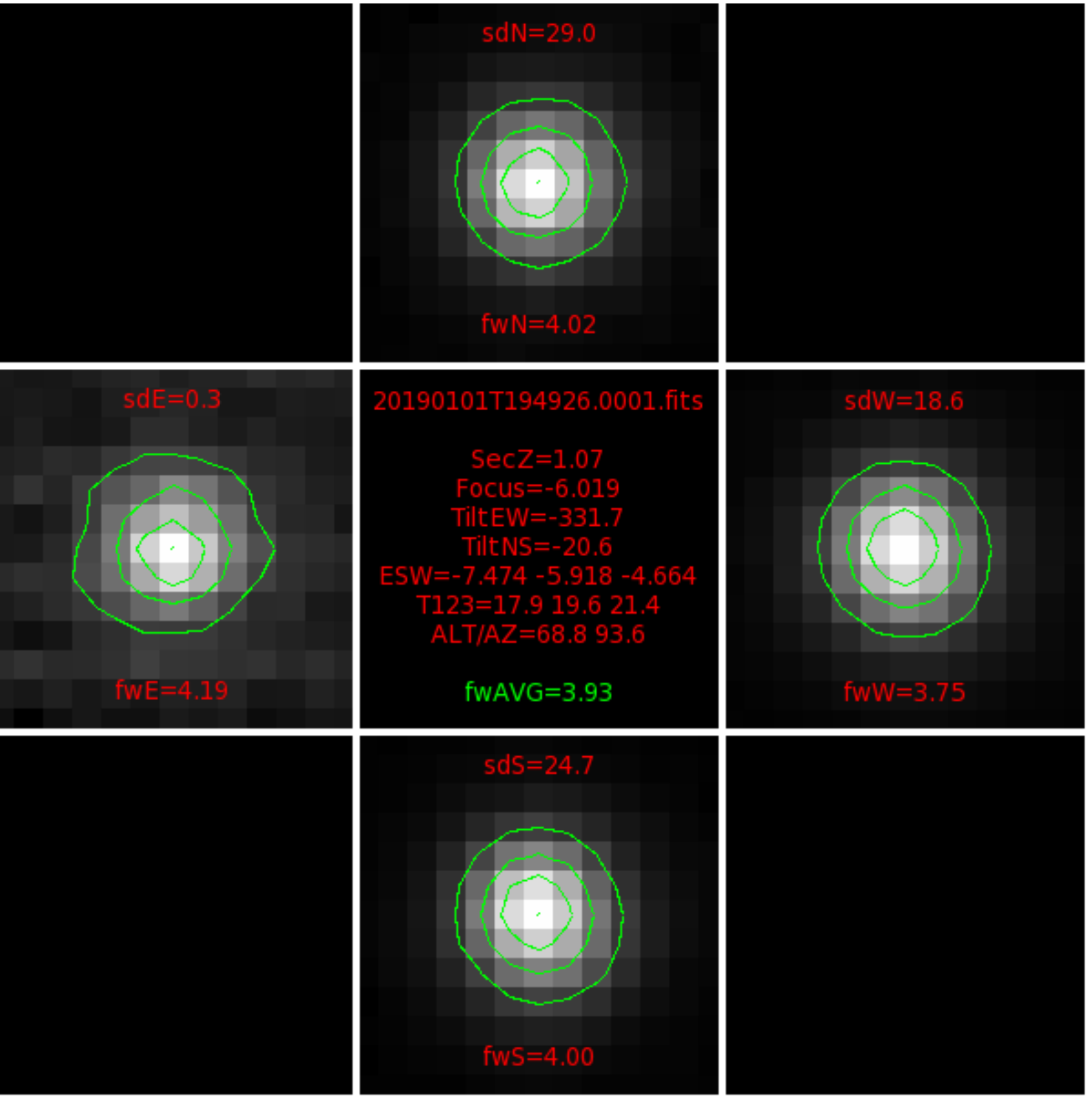
sdN=29.0
fwN=4.02
sdE=0.3
fwE=4.19
20190101T194926.0001.fits
SecZ=1.07
Focus=-6.019
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.474 -5.918 -4.664
T123=17.9 19.6 21.4
ALT/AZ=68.8 93.6
fwAVG=3.93
sdW=18.6
fwW=3.75
sdS=24.7
fwS=4.00
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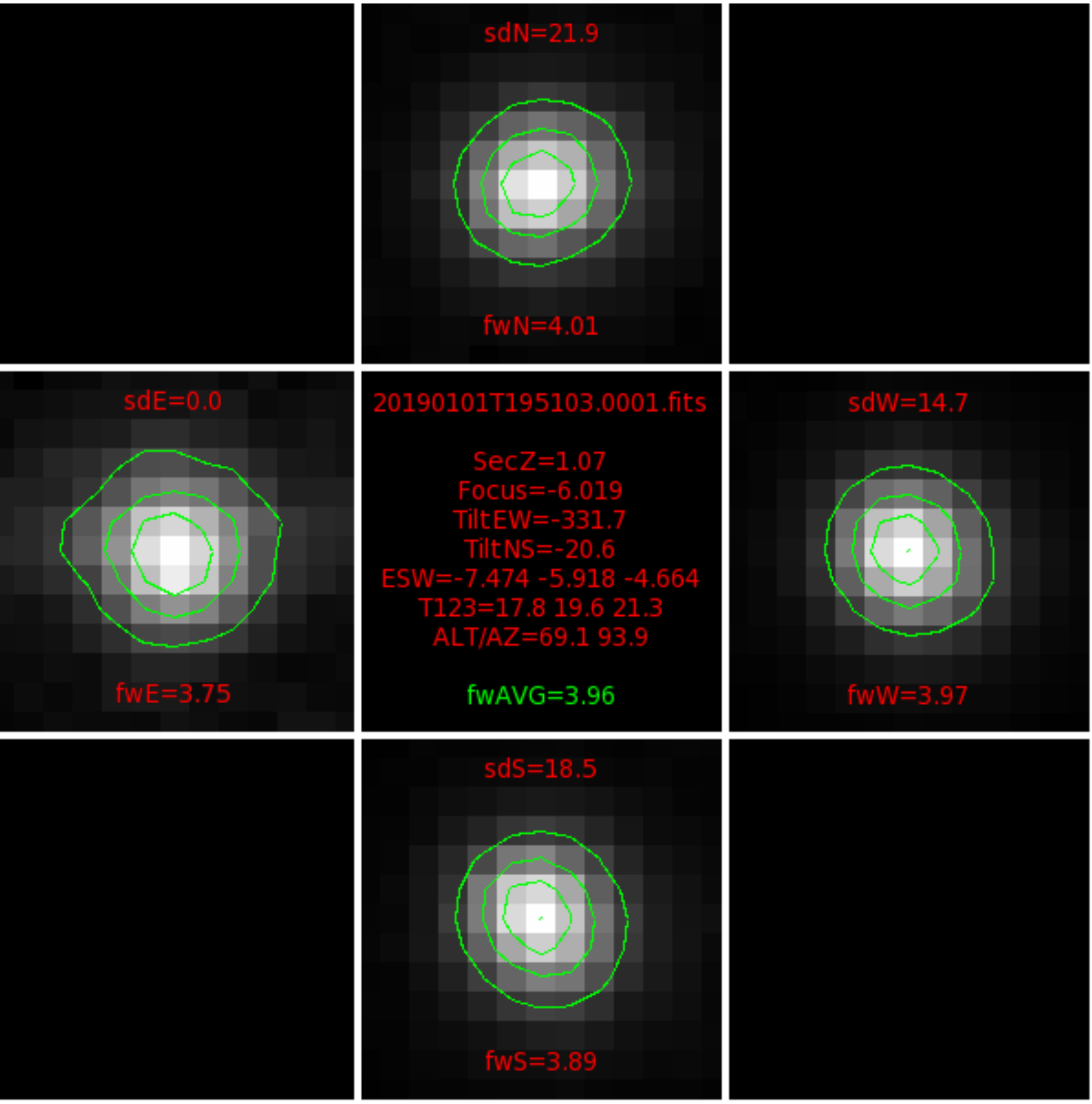
sdN=21.9
fwN=4.01
sdE=0.0
fwE=3.75
20190101T195103.0001.fits
SecZ=1.07
Focus=-6.019
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.474 -5.918 -4.664
T123=17.8 19.6 21.3
ALT/AZ=69.1 93.9
fwAVG=3.96
sdW=14.7
fwW=3.97
sdS=18.5
fwS=3.89
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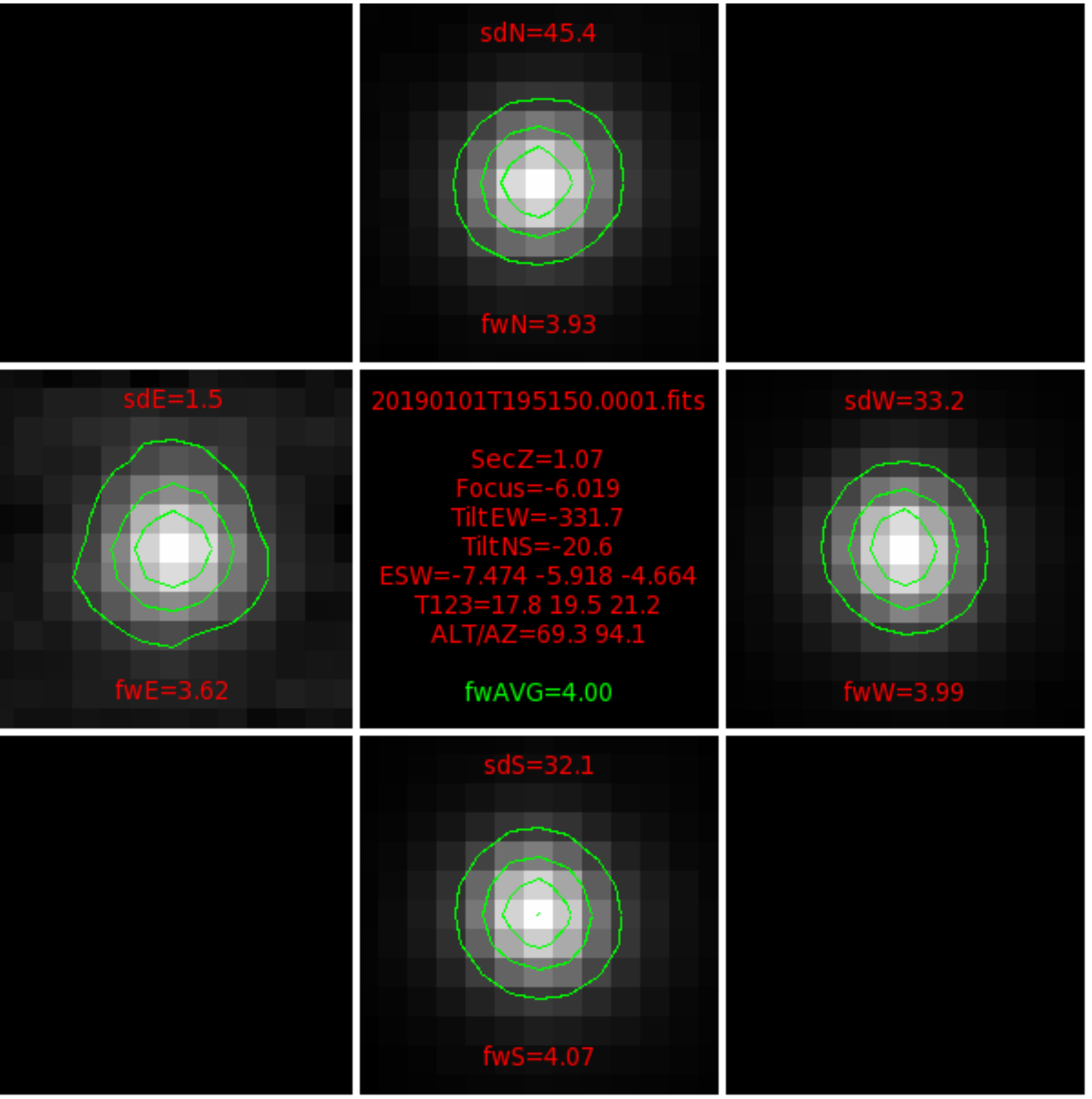
sdN=45.4
fwN=3.93
sdE=1.5
fwE=3.62
20190101T195150.0001.fits
SecZ=1.07
Focus=-6.019
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.474 -5.918 -4.664
T123=17.8 19.5 21.2
ALT/AZ=69.3 94.1
fwAVG=4.00
sdW=33.2
fwW=3.99
sdS=32.1
fwS=4.07
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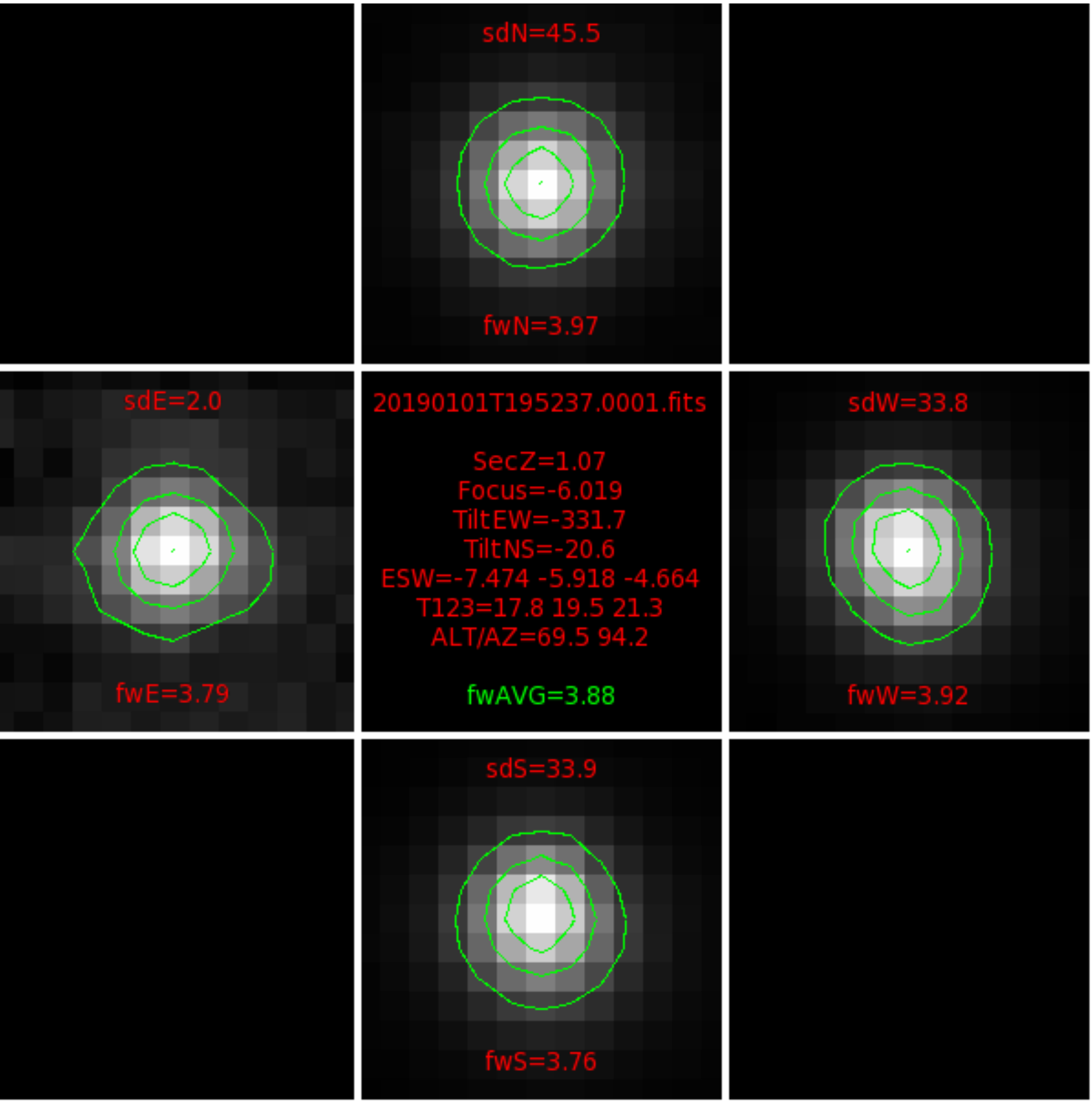
sdN=45.5
fwN=3.97
sdE=2.0
fwE=3.79
20190101T195237.0001.fits
SecZ=1.07
Focus=-6.019
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.474 -5.918 -4.664
T123=17.8 19.5 21.3
ALT/AZ=69.5 94.2
fwAVG=3.88
sdW=33.8
fwW=3.92
sdS=33.9
fwS=3.76
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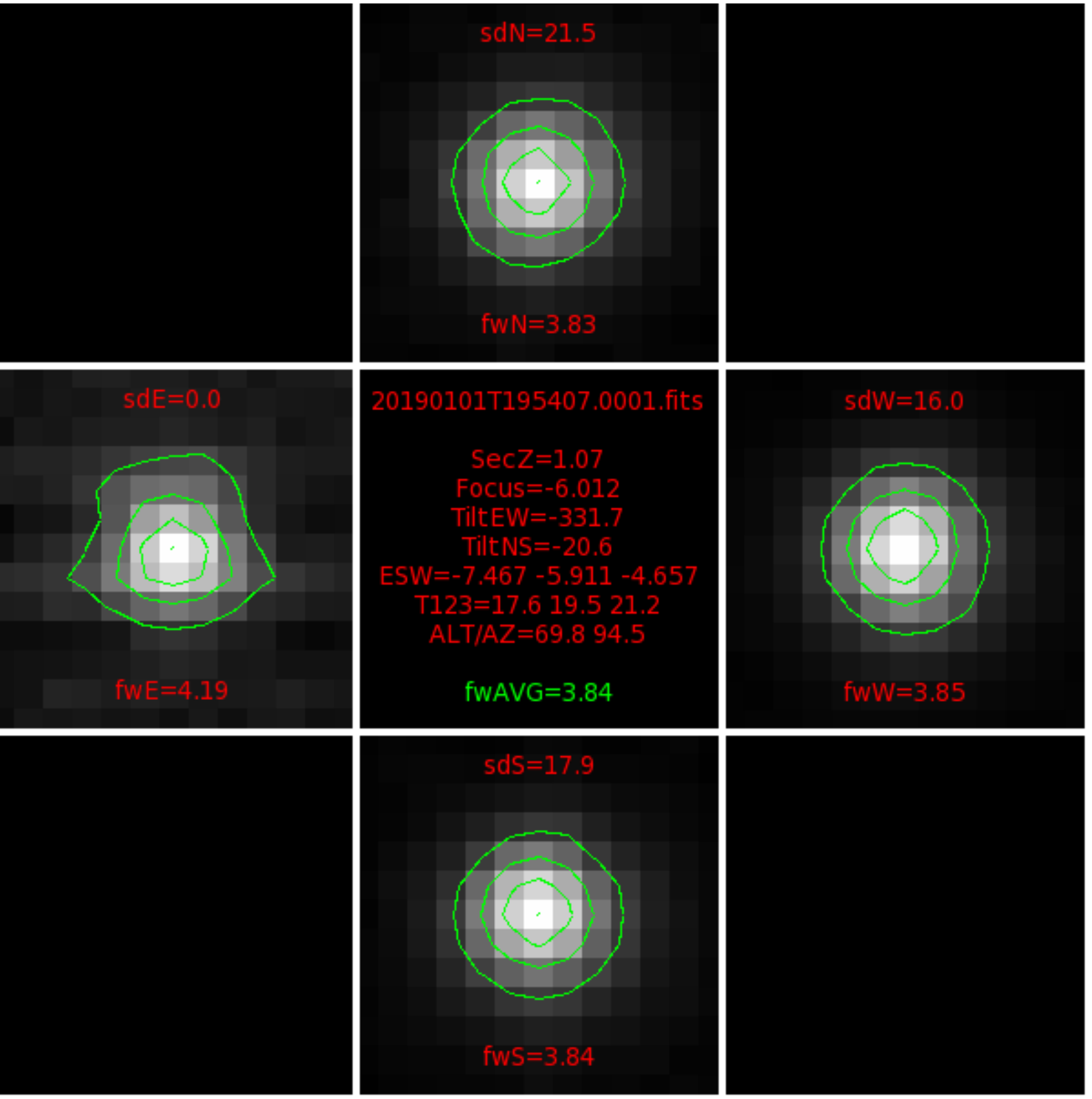
sdN=21.5
fwN=3.83
sdE=0.0
fwE=4.19
20190101T195407.0001.fits
SecZ=1.07
Focus=-6.012
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.467 -5.911 -4.657
T123=17.6 19.5 21.2
ALT/AZ=69.8 94.5
fwAVG=3.84
sdW=16.0
fwW=3.85
sdS=17.9
fwS=3.84
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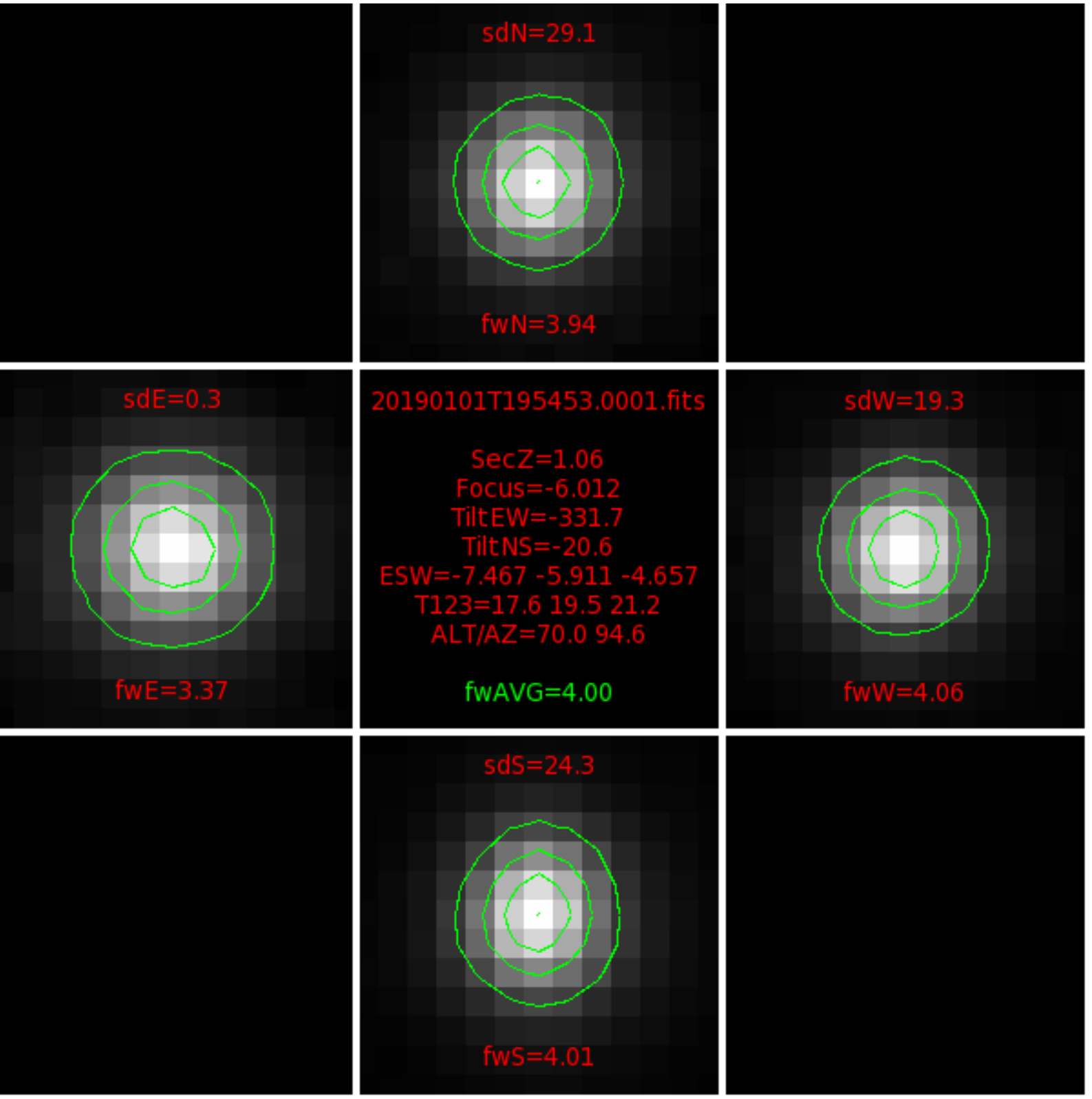
sdN=29.1
fwN=3.94
sdE=0.3
fwE=3.37
20190101T195453.0001.fits
SecZ=1.06
Focus=-6.012
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.467 -5.911 -4.657
T123=17.6 19.5 21.2
ALT/AZ=70.0 94.6
fwAVG=4.00
sdW=19.3
fwW=4.06
sdS=24.3
fwS=4.01
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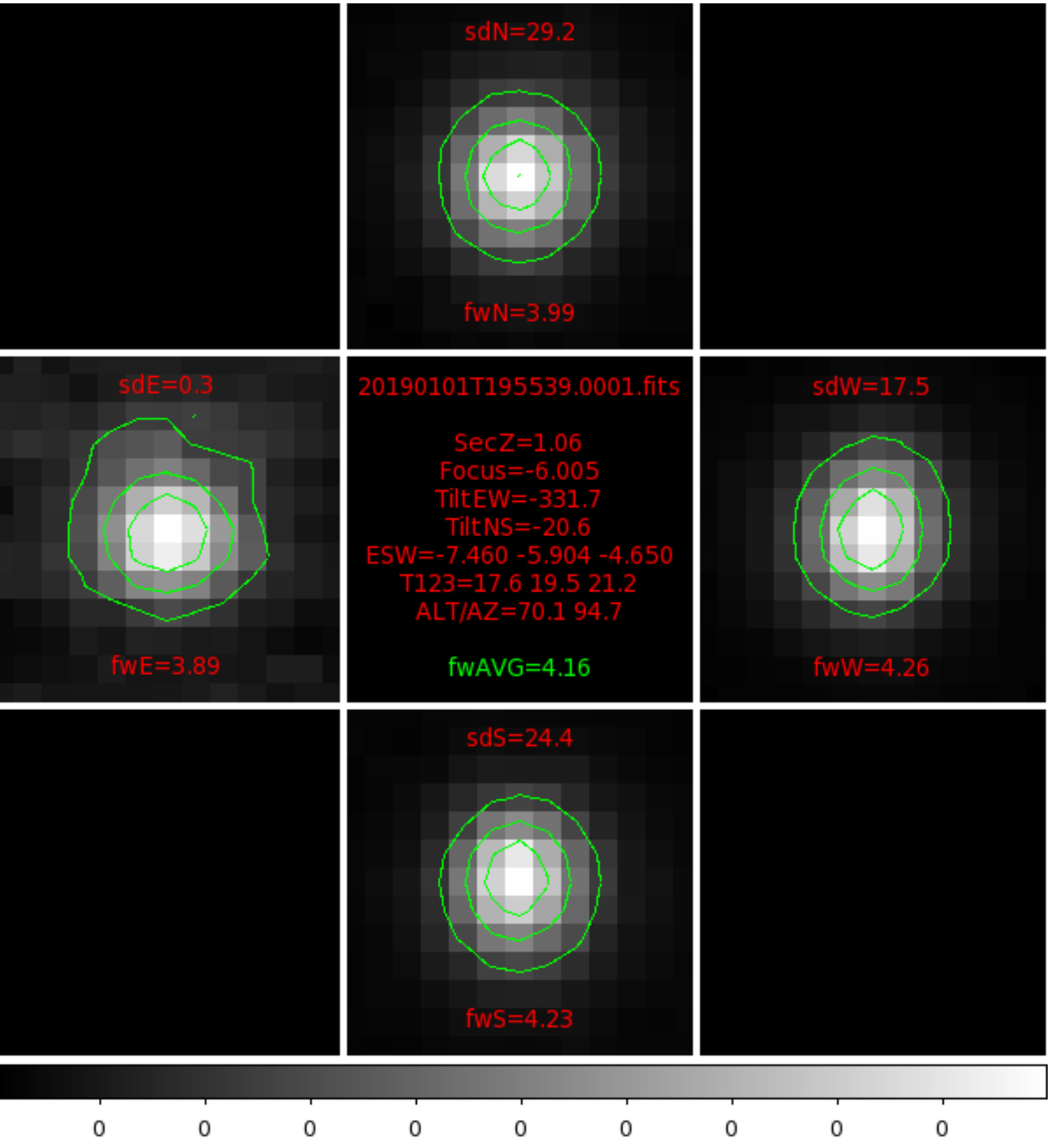
sdN=29.2
fwN=3.99
sdE=0.3
fwE=3.89
20190101T195539.0001.fits
SecZ=1.06
Focus=-6.005
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.460 -5.904 -4.650
T123=17.6 19.5 21.2
ALT/AZ=70.1 94.7
fwAVG=4.16
sdW=17.5
fwW=4.26
sdS=24.4
fwS=4.23
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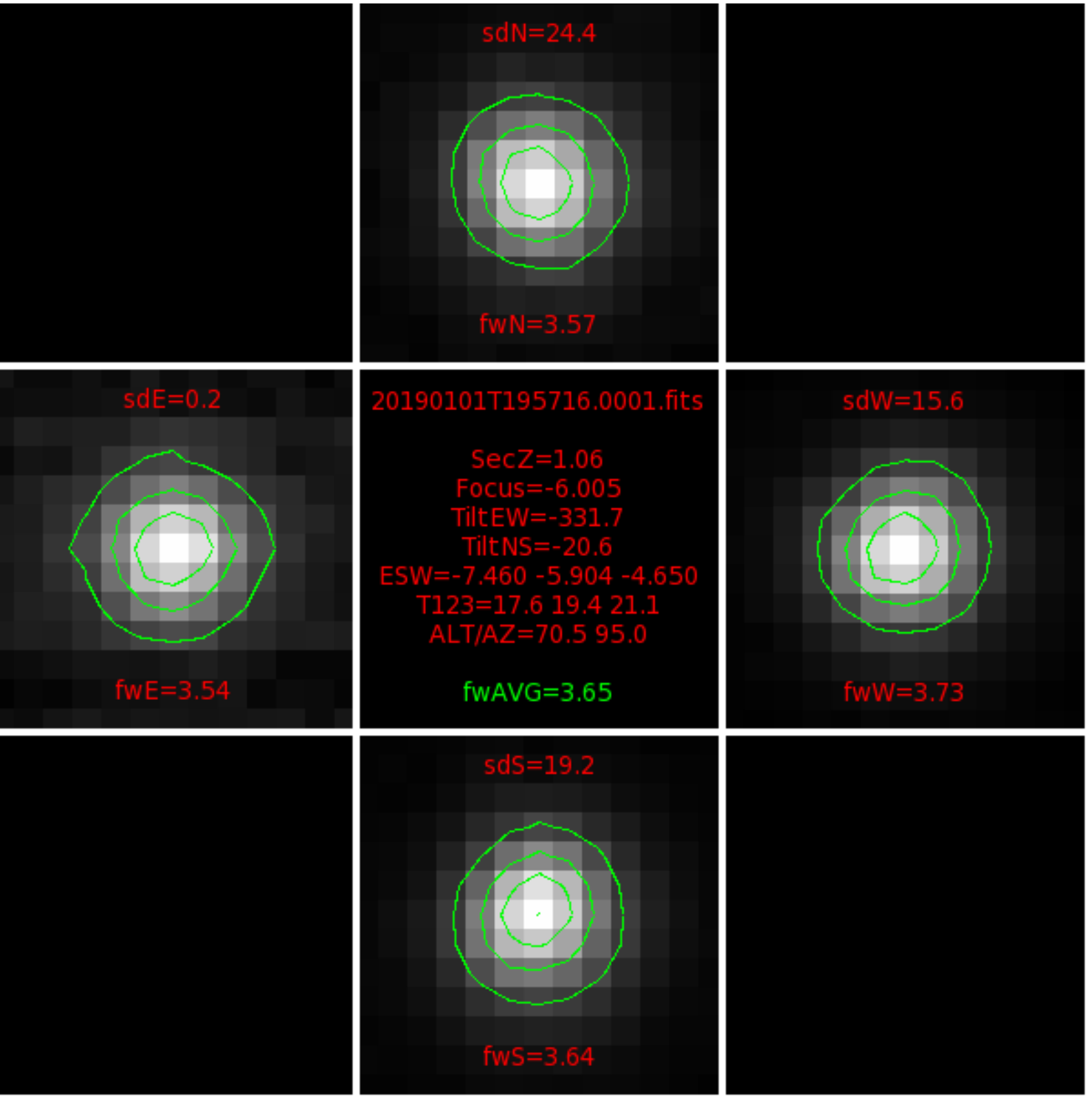
sdN=24.4
fwN=3.57
sdE=0.2
fwE=3.54
20190101T195716.0001.fits
SecZ=1.06
Focus=-6.005
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.460 -5.904 -4.650
T123=17.6 19.4 21.1
ALT/AZ=70.5 95.0
fwAVG=3.65
sdW=15.6
fwW=3.73
sdS=19.2
fwS=3.64
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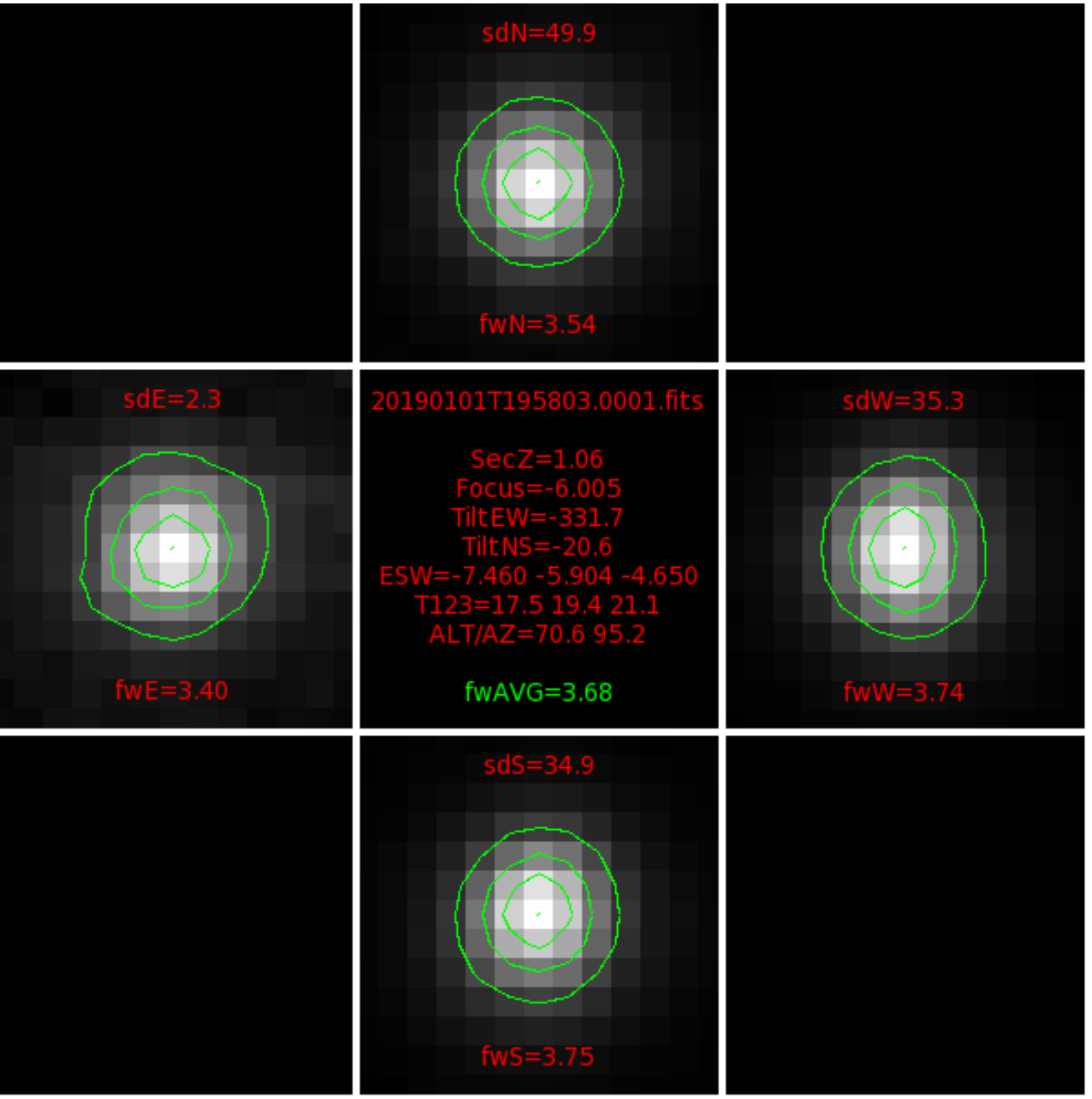
sdN=49.9
fwN=3.54
sdE=2.3
fwE=3.40
20190101T195803.0001.fits
SecZ=1.06
Focus=-6.005
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.460 -5.904 -4.650
T123=17.5 19.4 21.1
ALT/AZ=70.6 95.2
fwAVG=3.68
sdW=35.3
fwW=3.74
sdS=34.9
fwS=3.75
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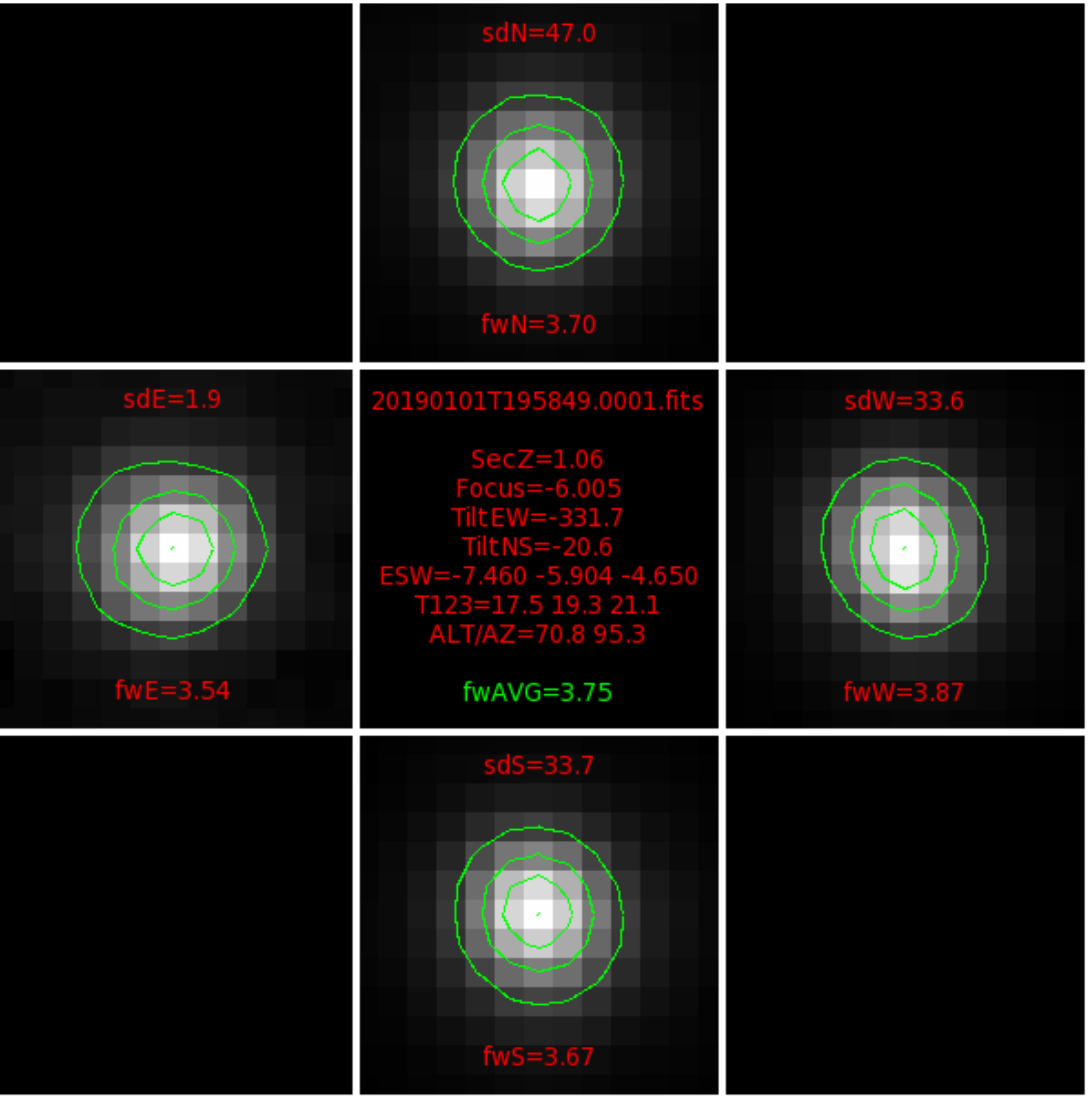
sdN=47.0
fwN=3.70
sdE=1.9
fwE=3.54
20190101T195849.0001.fits
SecZ=1.06
Focus=-6.005
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.460 -5.904 -4.650
T123=17.5 19.3 21.1
ALT/AZ=70.8 95.3
fwAVG=3.75
sdW=33.6
fwW=3.87
sdS=33.7
fwS=3.67
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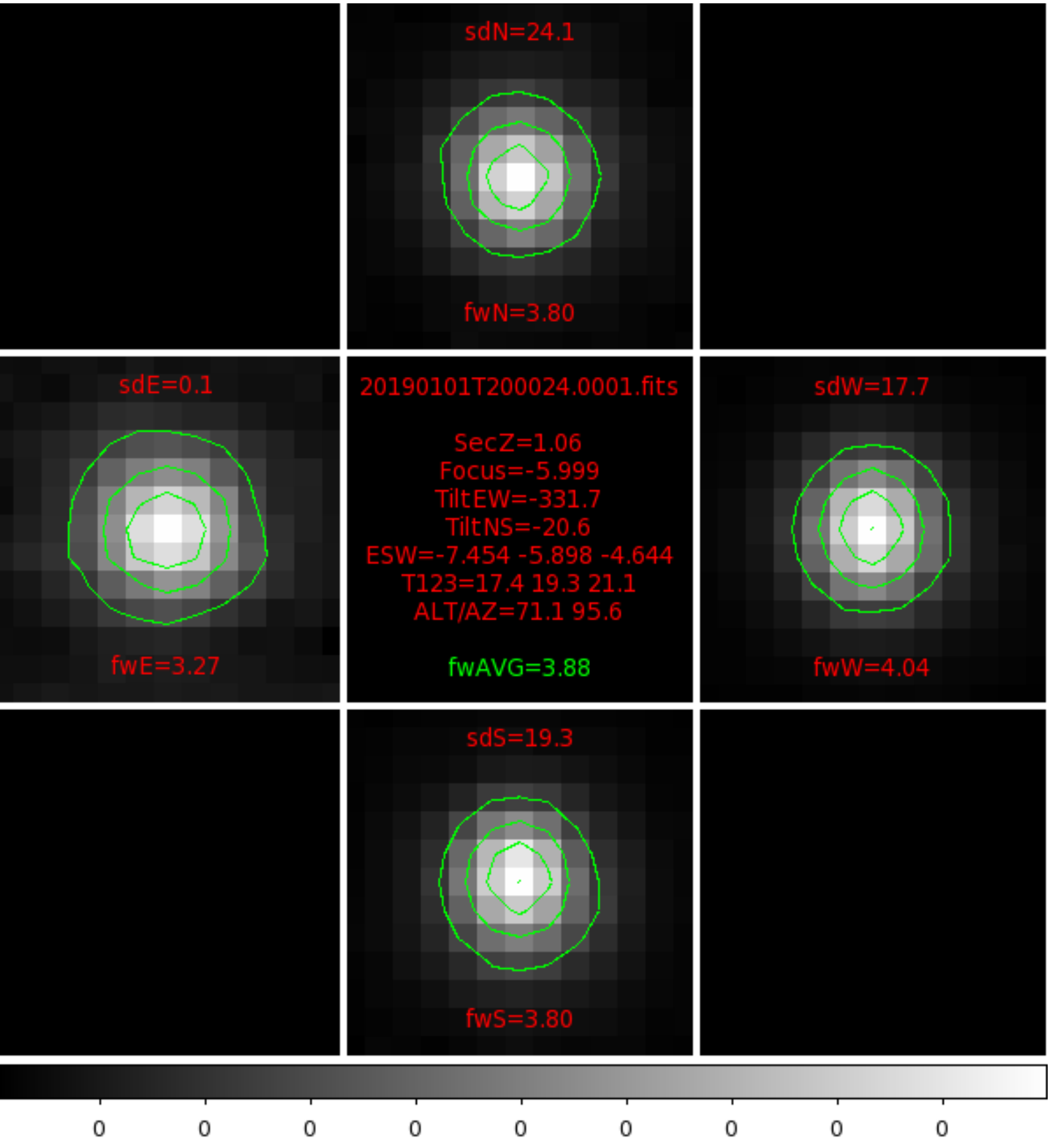
sdN=24.1
fwN=3.80
sdE=0.1
fwE=3.27
20190101T200024.0001.fits
SecZ=1.06
Focus=-5.999
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.454 -5.898 -4.644
T123=17.4 19.3 21.1
ALT/AZ=71.1 95.6
fwAVG=3.88
sdW=17.7
fwW=4.04
sdS=19.3
fwS=3.80
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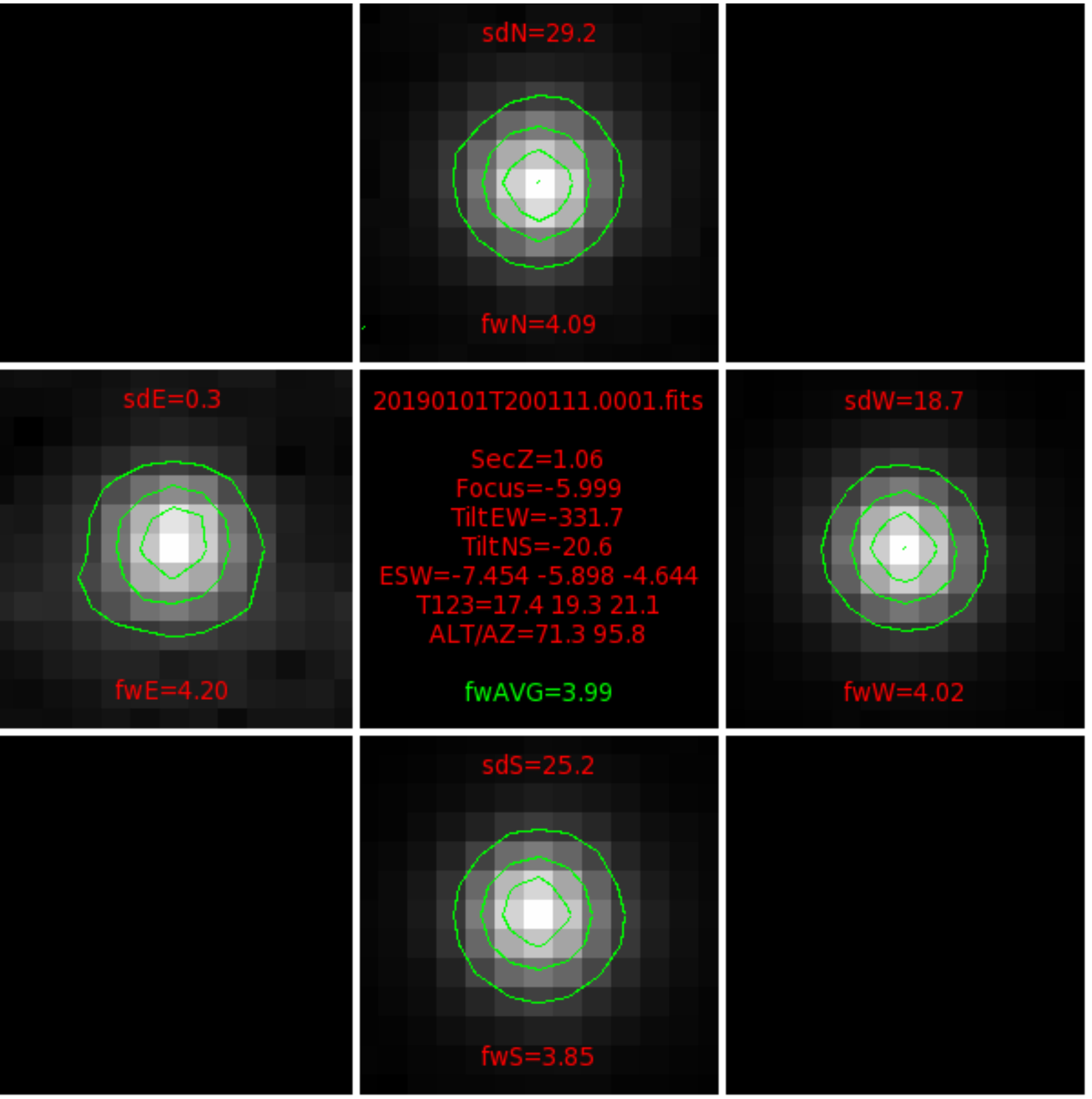
sdN=29.2
fwN=4.09
sdE=0.3
fwE=4.20
20190101T200111.0001.fits
SecZ=1.06
Focus=-5.999
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.454 -5.898 -4.644
T123=17.4 19.3 21.1
ALT/AZ=71.3 95.8
fwAVG=3.99
sdW=18.7
fwW=4.02
sdS=25.2
fwS=3.85
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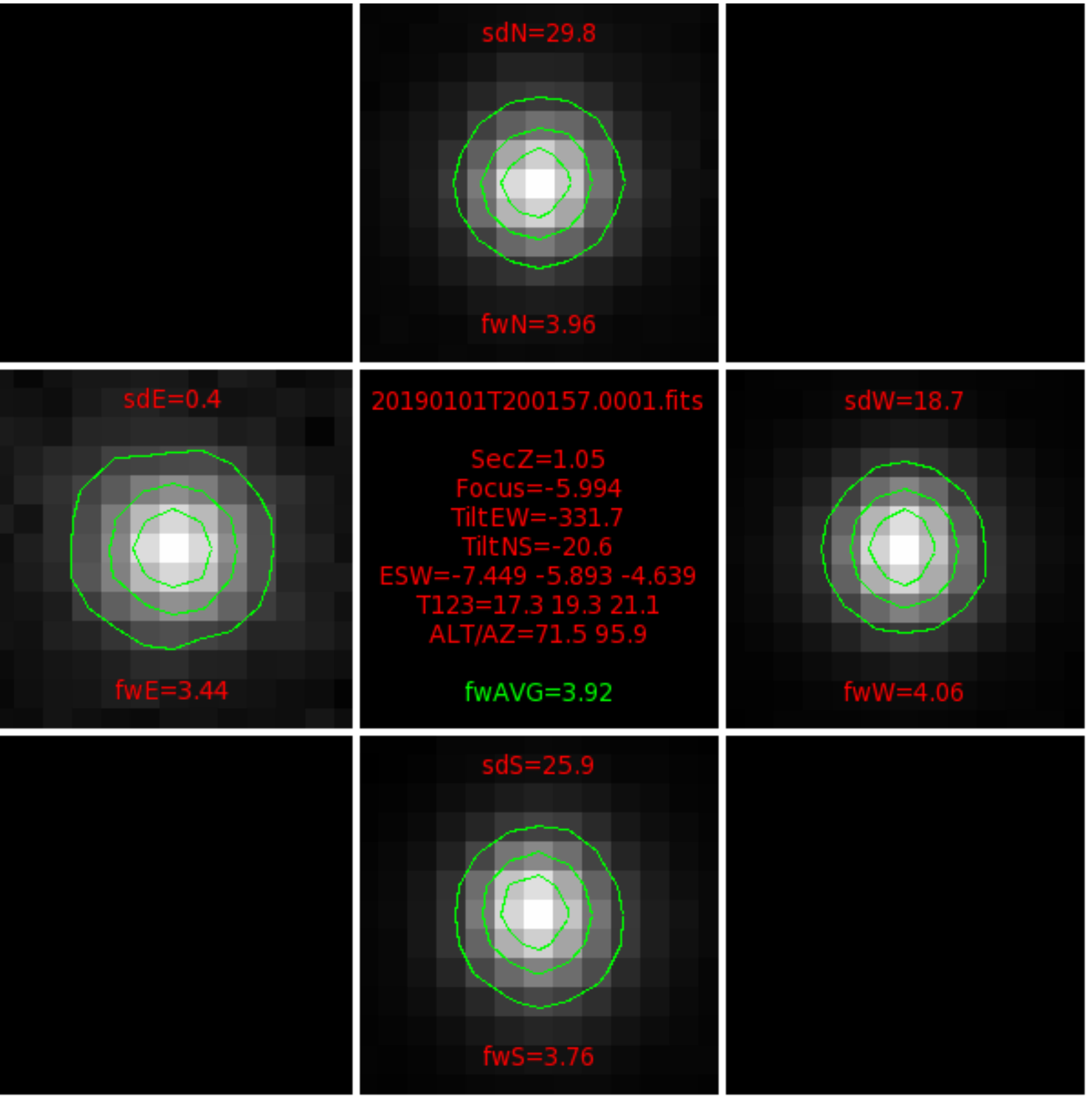
sdN=29.8
fwN=3.96
sdE=0.4
fwE=3.44
20190101T200157.0001.fits
SecZ=1.05
Focus=-5.994
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.449 -5.893 -4.639
T123=17.3 19.3 21.1
ALT/AZ=71.5 95.9
fwAVG=3.92
sdW=18.7
fwW=4.06
sdS=25.9
fwS=3.76
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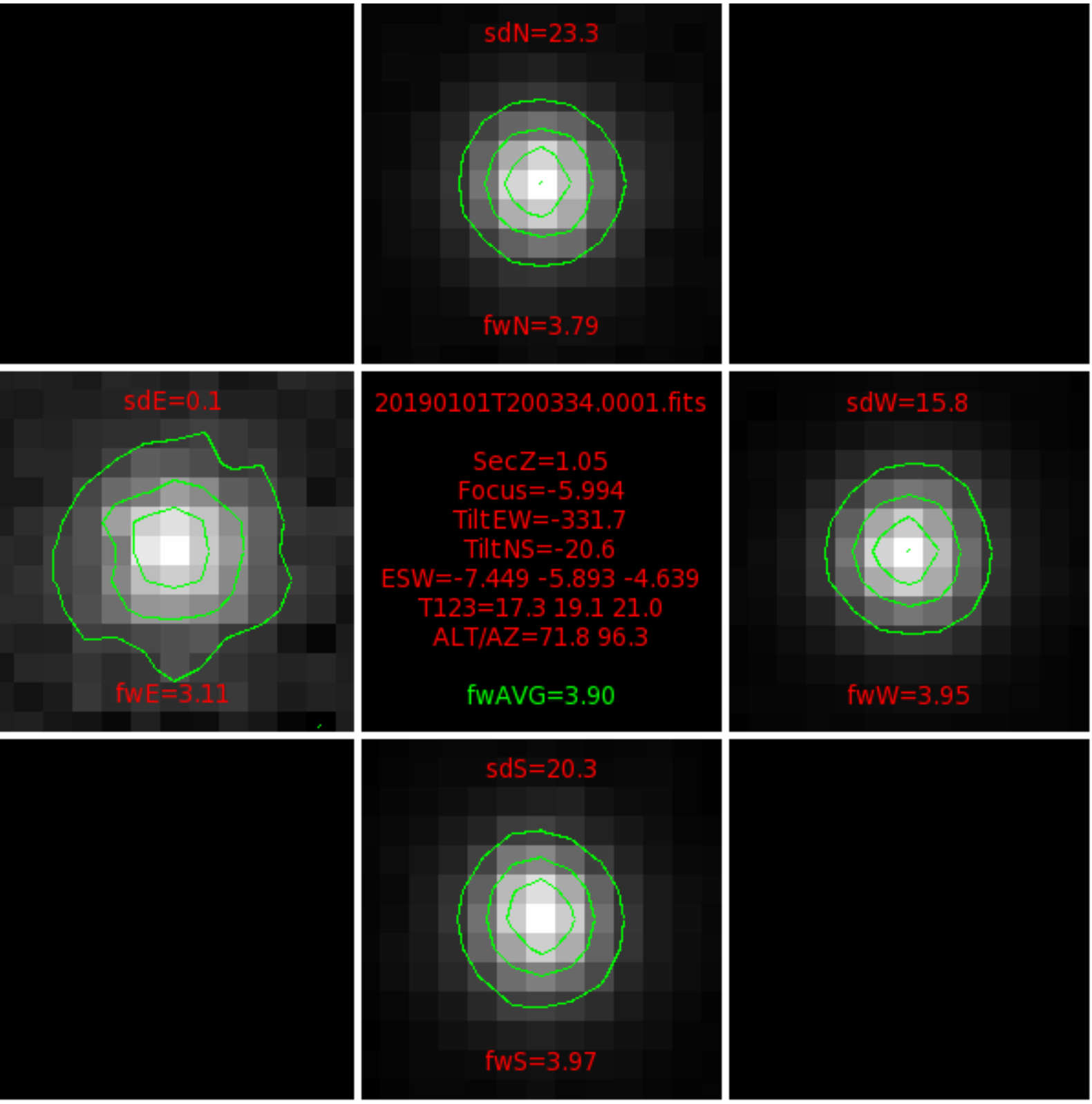
sdN=23.3
fwN=3.79
sdE=0.1
fwE=3.11
20190101T200334.0001.fits
SecZ=1.05
Focus=-5.994
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.449 -5.893 -4.639
T123=17.3 19.1 21.0
ALT/AZ=71.8 96.3
fwAVG=3.90
sdW=15.8
fwW=3.95
sdS=20.3
fwS=3.97
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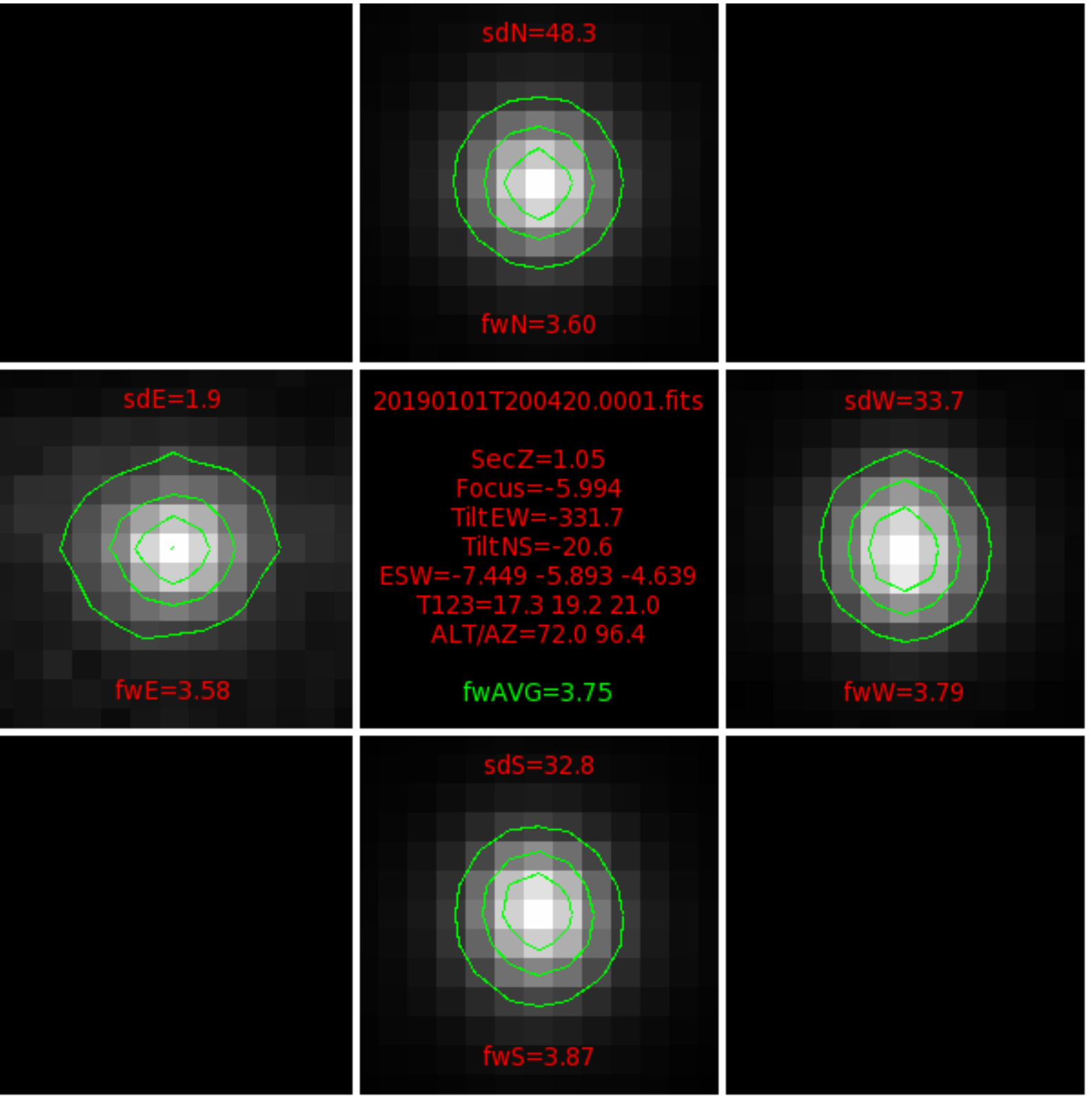
sdN=48.3
fwN=3.60
sdE=1.9
fwE=3.58
20190101T200420.0001.fits
SecZ=1.05
Focus=-5.994
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.449 -5.893 -4.639
T123=17.3 19.2 21.0
ALT/AZ=72.0 96.4
fwAVG=3.75
sdW=33.7
fwW=3.79
sdS=32.8
fwS=3.87
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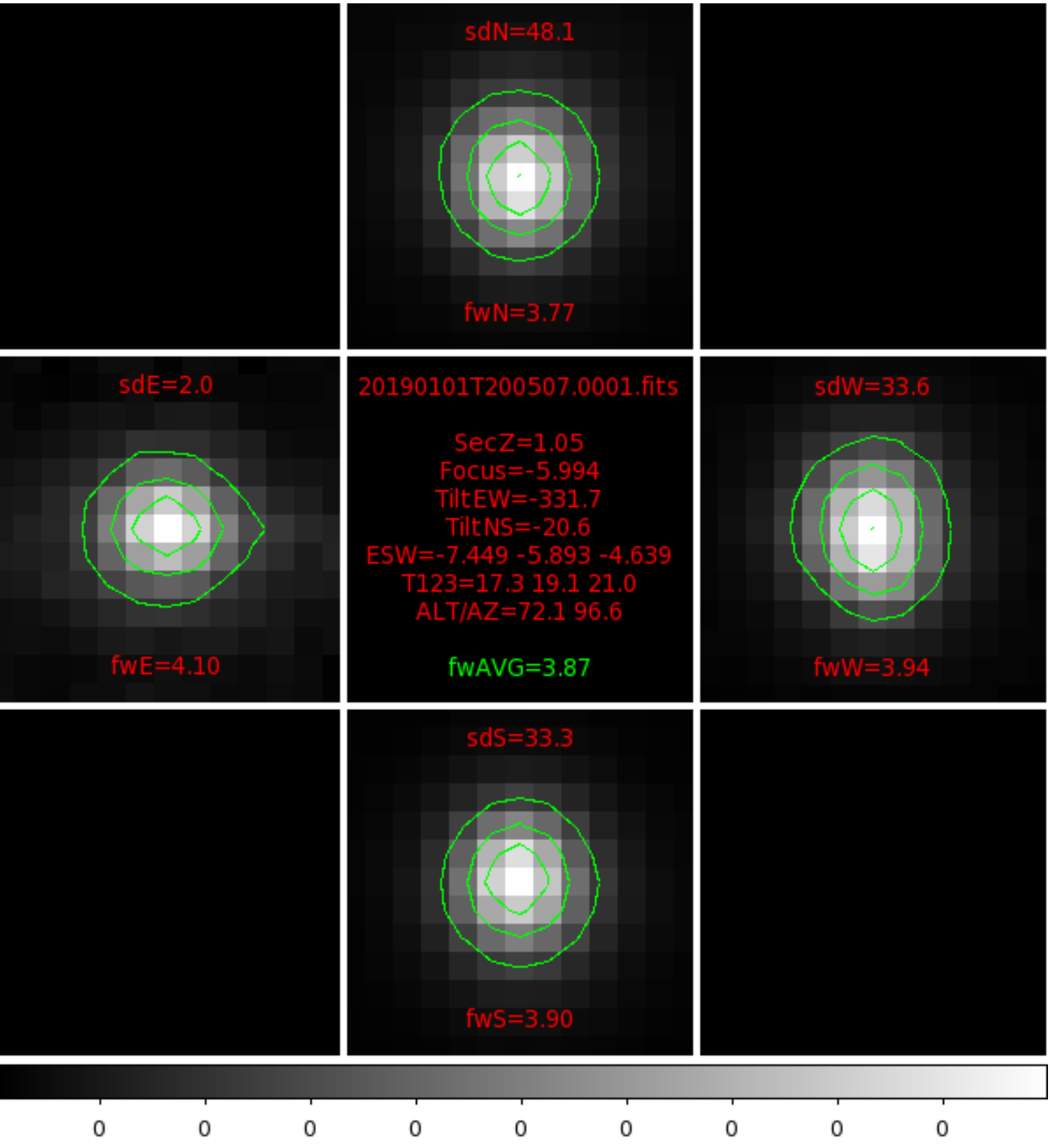
sdN=48.1
fwN=3.77
sdE=2.0
fwE=4.10
20190101T200507.0001.fits
SecZ=1.05
Focus=-5.994
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.449 -5.893 -4.639
T123=17.3 19.1 21.0
ALT/AZ=72.1 96.6
fwAVG=3.87
sdW=33.6
fwW=3.94
sdS=33.3
fwS=3.90
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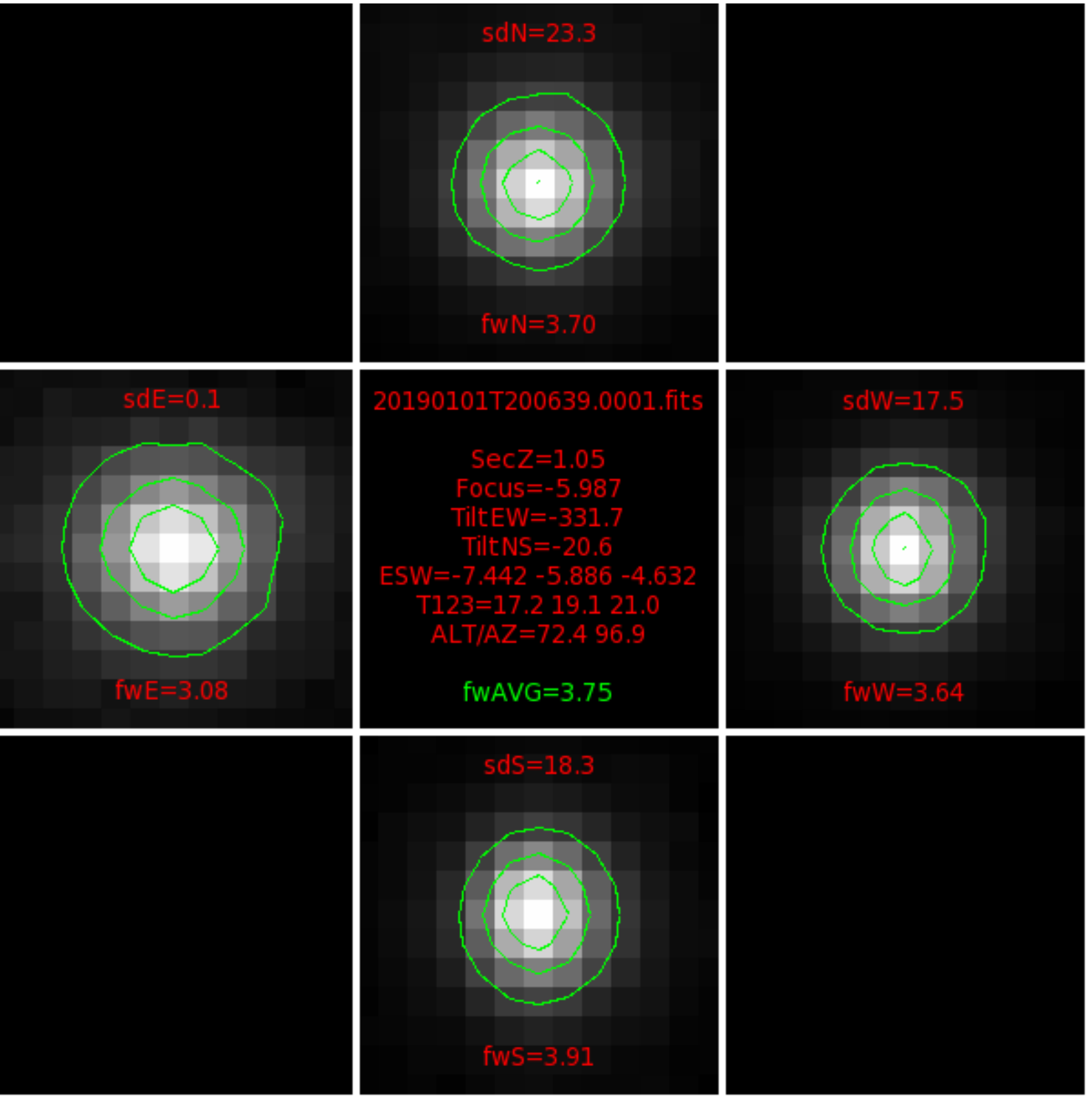
sdN=23.3
fwN=3.70
sdE=0.1
fwE=3.08
20190101T200639.0001.fits
SecZ=1.05
Focus=-5.987
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.442 -5.886 -4.632
T123=17.2 19.1 21.0
ALT/AZ=72.4 96.9
fwAVG=3.75
sdW=17.5
fwW=3.64
sdS=18.3
fwS=3.91
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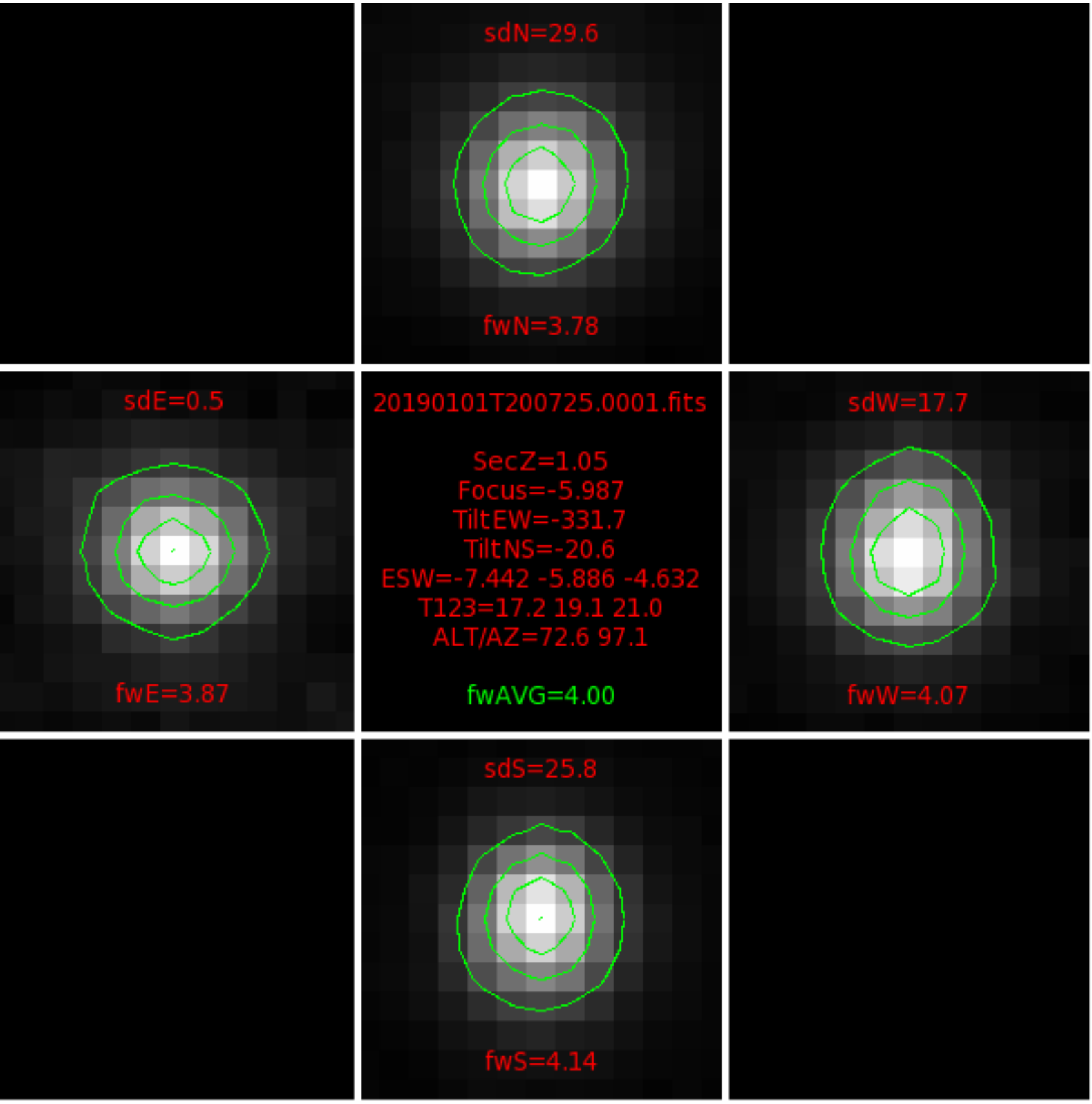
sdN=29.6
fwN=3.78
sdE=0.5
fwE=3.87
20190101T200725.0001.fits
SecZ=1.05
Focus=-5.987
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.442 -5.886 -4.632
T123=17.2 19.1 21.0
ALT/AZ=72.6 97.1
fwAVG=4.00
sdW=17.7
fwW=4.07
sdS=25.8
fwS=4.14
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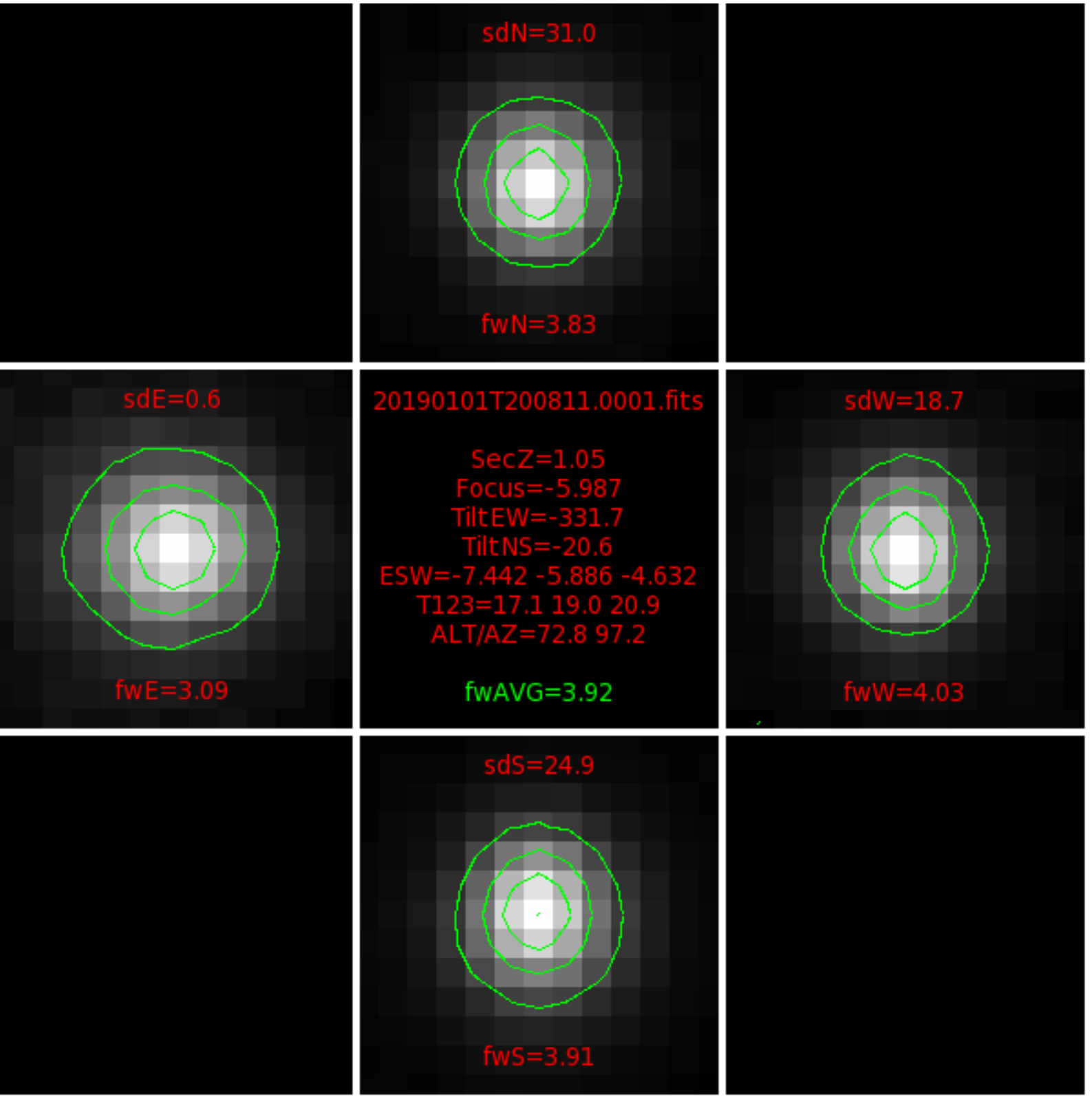
sdN=31.0
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sdE=0.6
fwE=3.09
20190101T200811.0001.fits
SecZ=1.05
Focus=-5.987
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.442 -5.886 -4.632
T123=17.1 19.0 20.9
ALT/AZ=72.8 97.2
fwAVG=3.92
sdW=18.7
fwW=4.03
sdS=24.9
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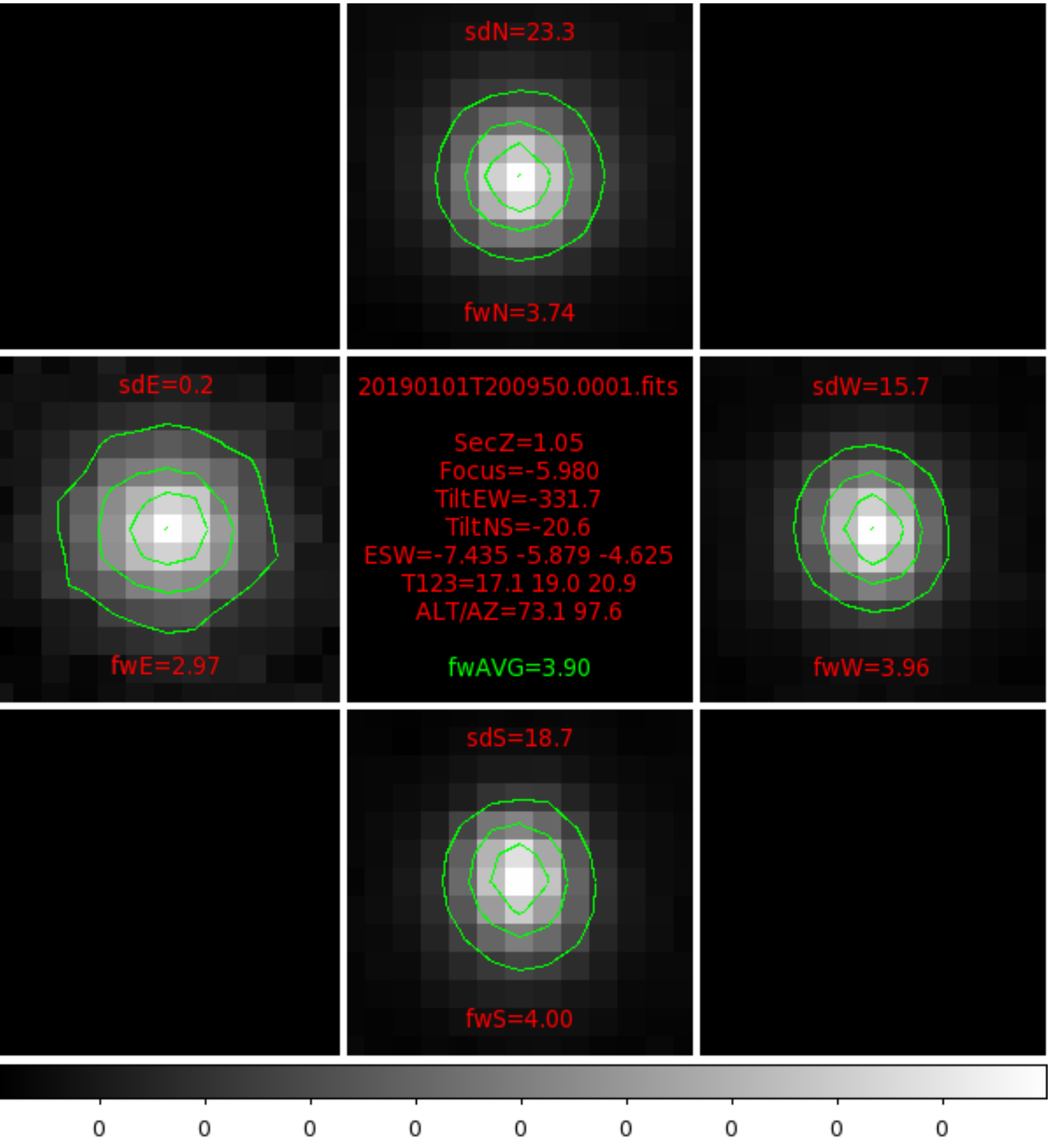
sdN=23.3
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sdE=0.2
fwE=2.97
20190101T200950.0001.fits
SecZ=1.05
Focus=-5.980
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.435 -5.879 -4.625
T123=17.1 19.0 20.9
ALT/AZ=73.1 97.6
fwAVG=3.90
sdW=15.7
fwW=3.96
sdS=18.7
fwS=4.00
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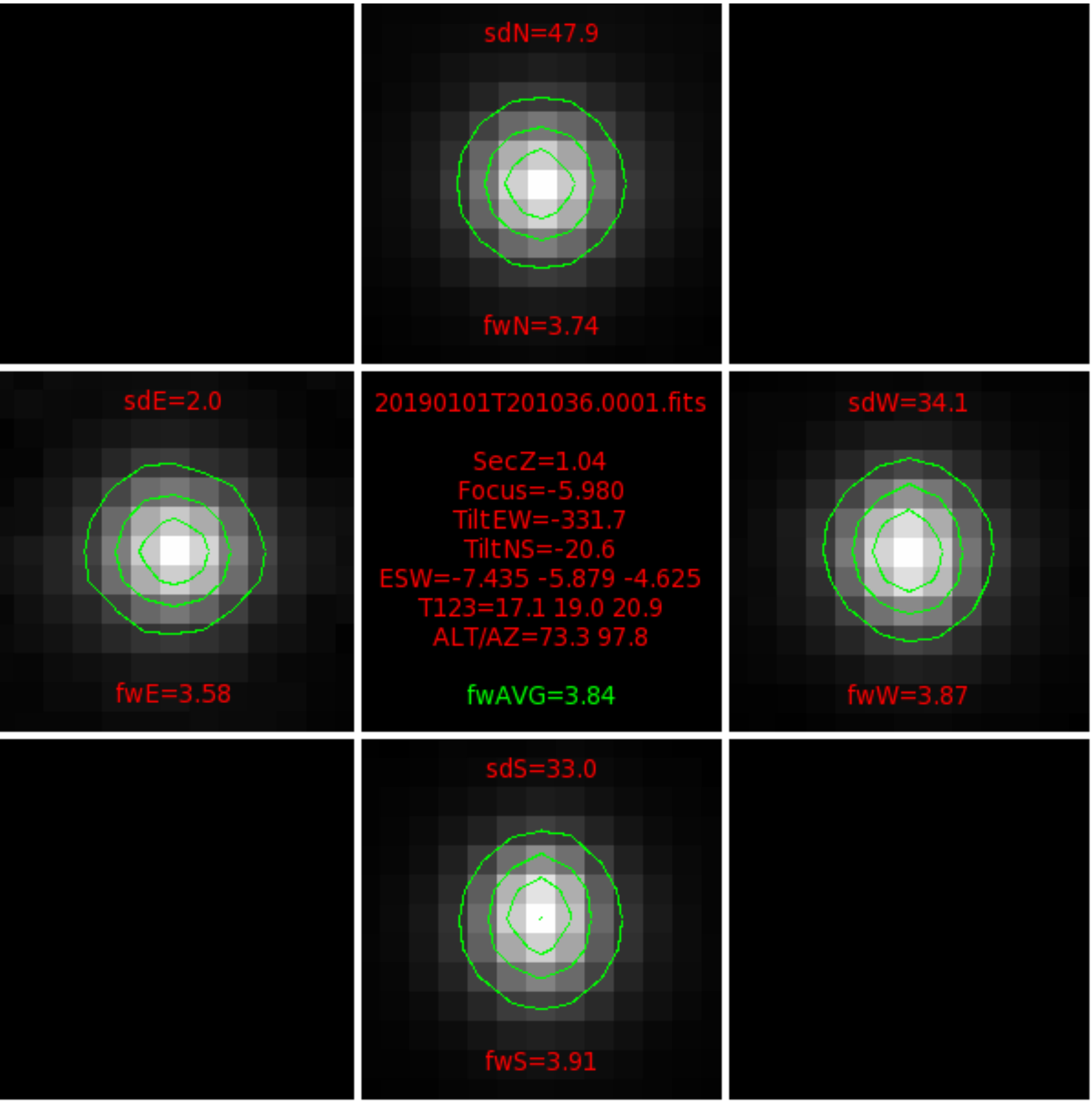
sdN=47.9
fwN=3.74
sdE=2.0
fwE=3.58
20190101T201036.0001.fits
SecZ=1.04
Focus=-5.980
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.435 -5.879 -4.625
T123=17.1 19.0 20.9
ALT/AZ=73.3 97.8
fwAVG=3.84
sdW=34.1
fwW=3.87
sdS=33.0
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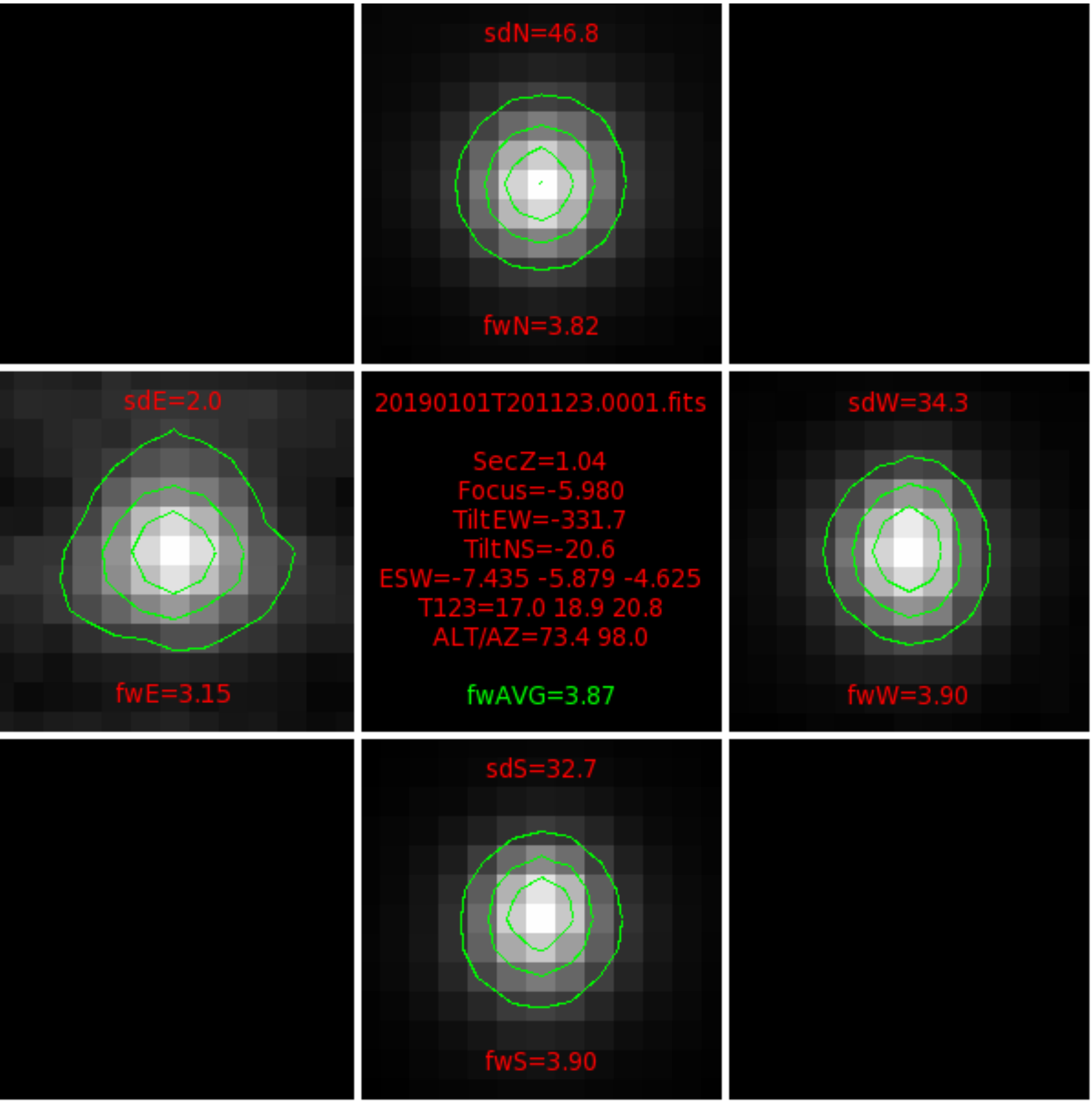
sdN=46.8
fwN=3.82
sdE=2.0
fwE=3.15
20190101T201123.0001.fits
SecZ=1.04
Focus=-5.980
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.435 -5.879 -4.625
T123=17.0 18.9 20.8
ALT/AZ=73.4 98.0
fwAVG=3.87
sdW=34.3
fwW=3.90
sdS=32.7
fwS=3.90
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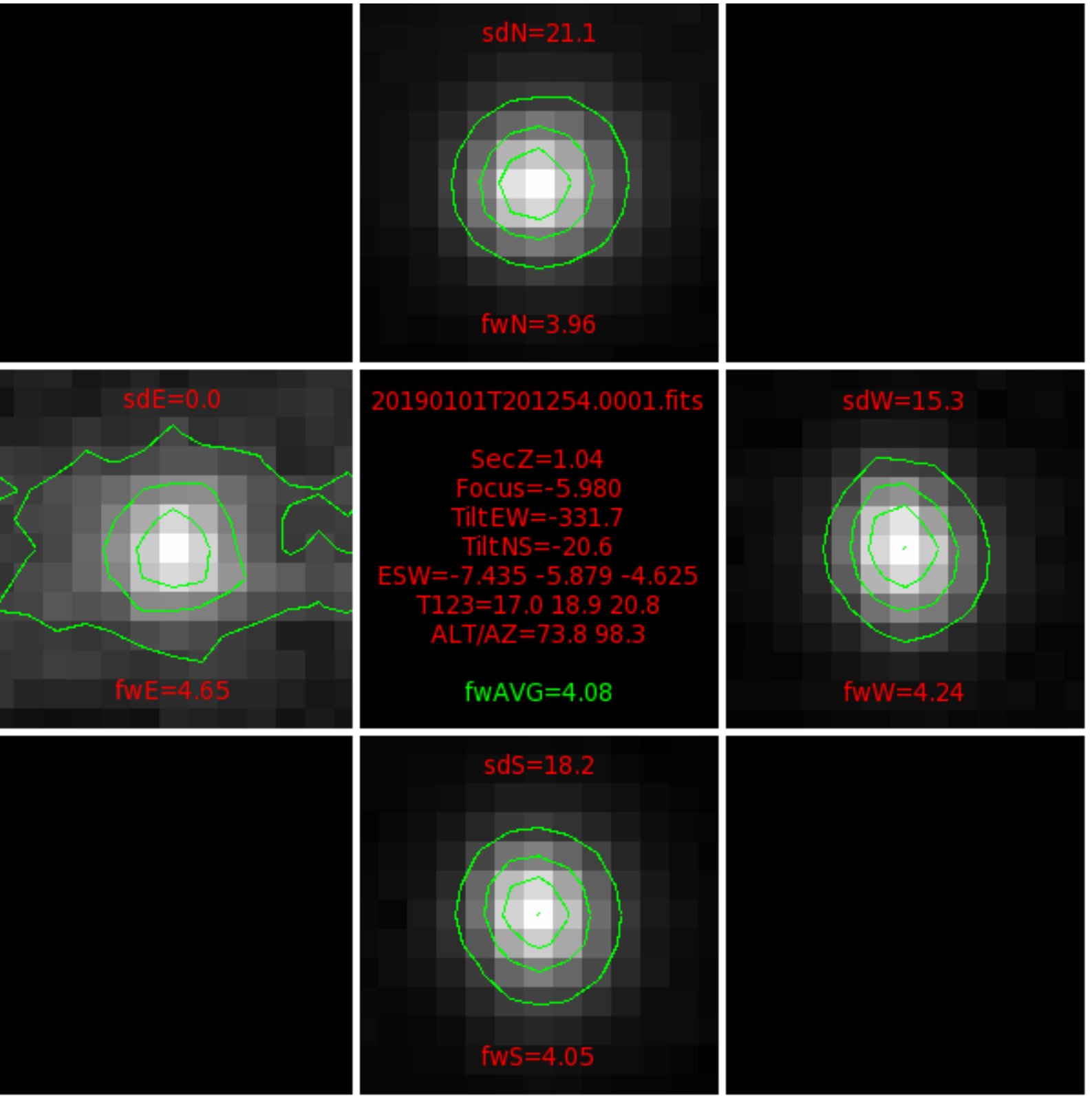
sdN=21.1
fwN=3.96
sdE=0.0
fwE=4.65
20190101T201254.0001.fits
SecZ=1.04
Focus=-5.980
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.435 -5.879 -4.625
T123=17.0 18.9 20.8
ALT/AZ=73.8 98.3
fwAVG=4.08
sdW=15.3
fwW=4.24
sdS=18.2
fwS=4.05
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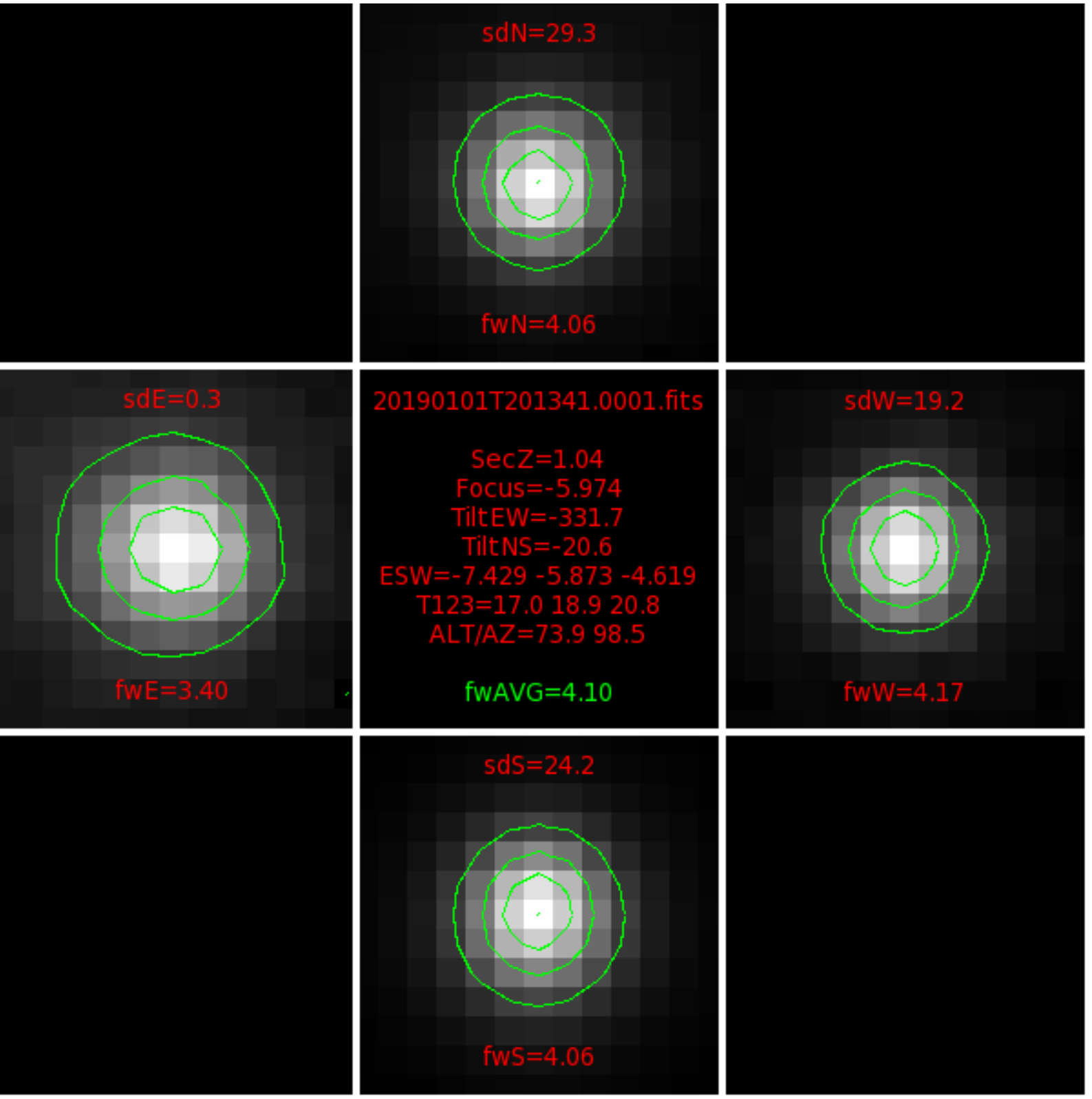
sdN=29.3
fwN=4.06
sdE=0.3
fwE=3.40
20190101T201341.0001.fits
SecZ=1.04
Focus=-5.974
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.429 -5.873 -4.619
T123=17.0 18.9 20.8
ALT/AZ=73.9 98.5
fwAVG=4.10
sdW=19.2
fwW=4.17
sdS=24.2
fwS=4.06
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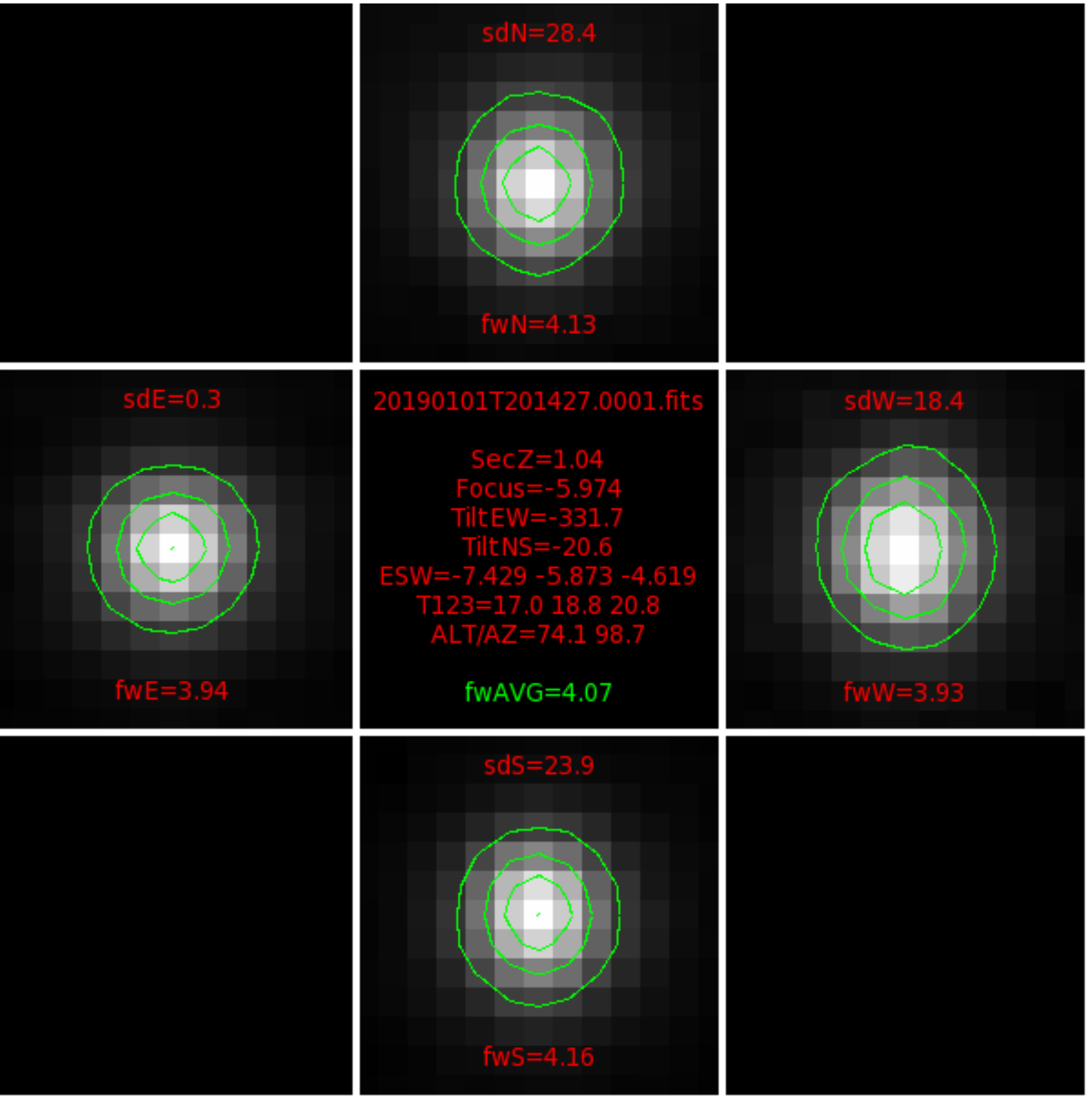
sdN=28.4
fwN=4.13
sdE=0.3
fwE=3.94
20190101T201427.0001.fits
SecZ=1.04
Focus=-5.974
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.429 -5.873 -4.619
T123=17.0 18.8 20.8
ALT/AZ=74.1 98.7
fwAVG=4.07
sdW=18.4
fwW=3.93
sdS=23.9
fwS=4.16
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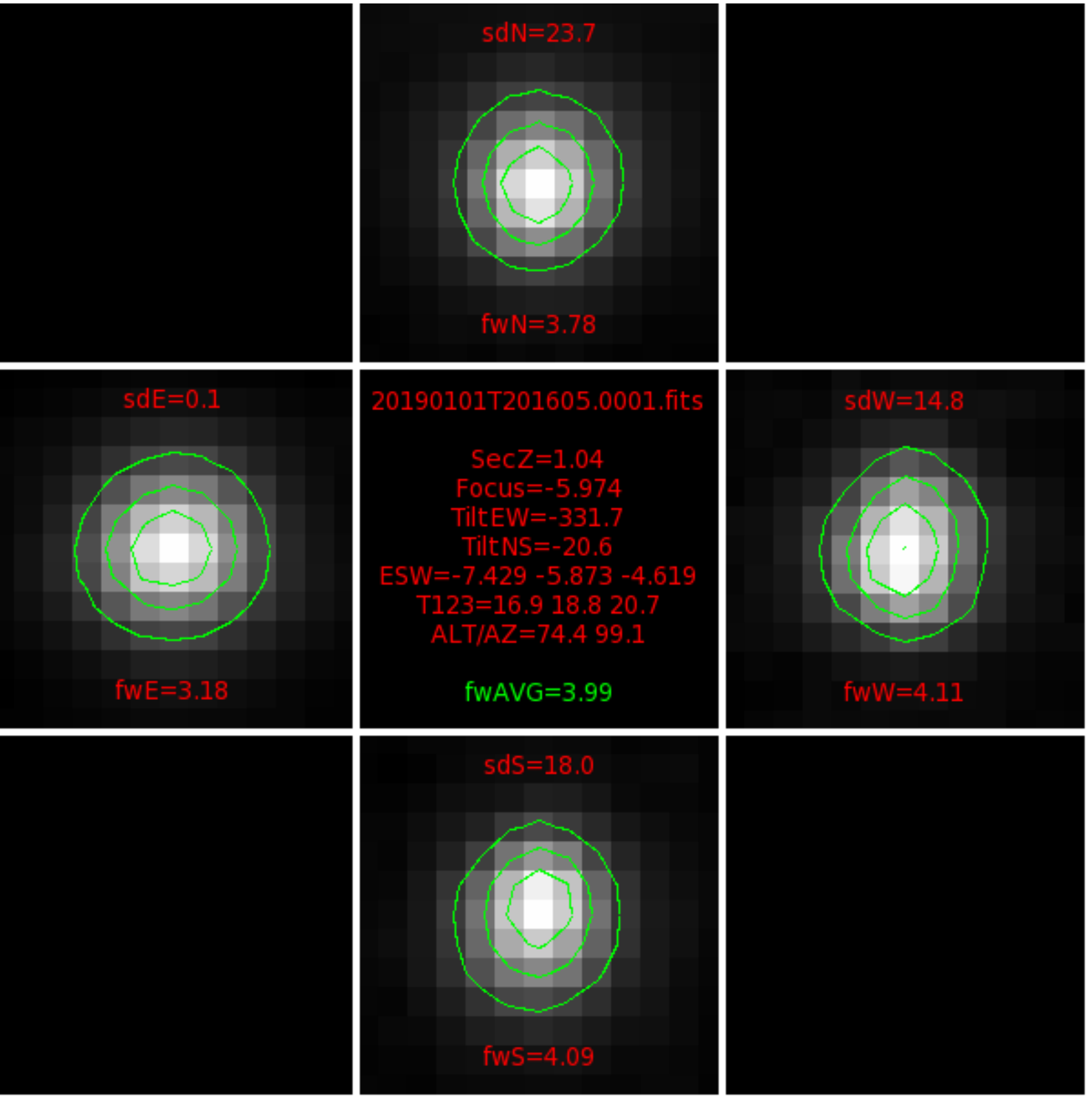
sdN=23.7
fwN=3.78
sdE=0.1
fwE=3.18
20190101T201605.0001.fits
SecZ=1.04
Focus=-5.974
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.429 -5.873 -4.619
T123=16.9 18.8 20.7
ALT/AZ=74.4 99.1
fwAVG=3.99
sdW=14.8
fwW=4.11
sdS=18.0
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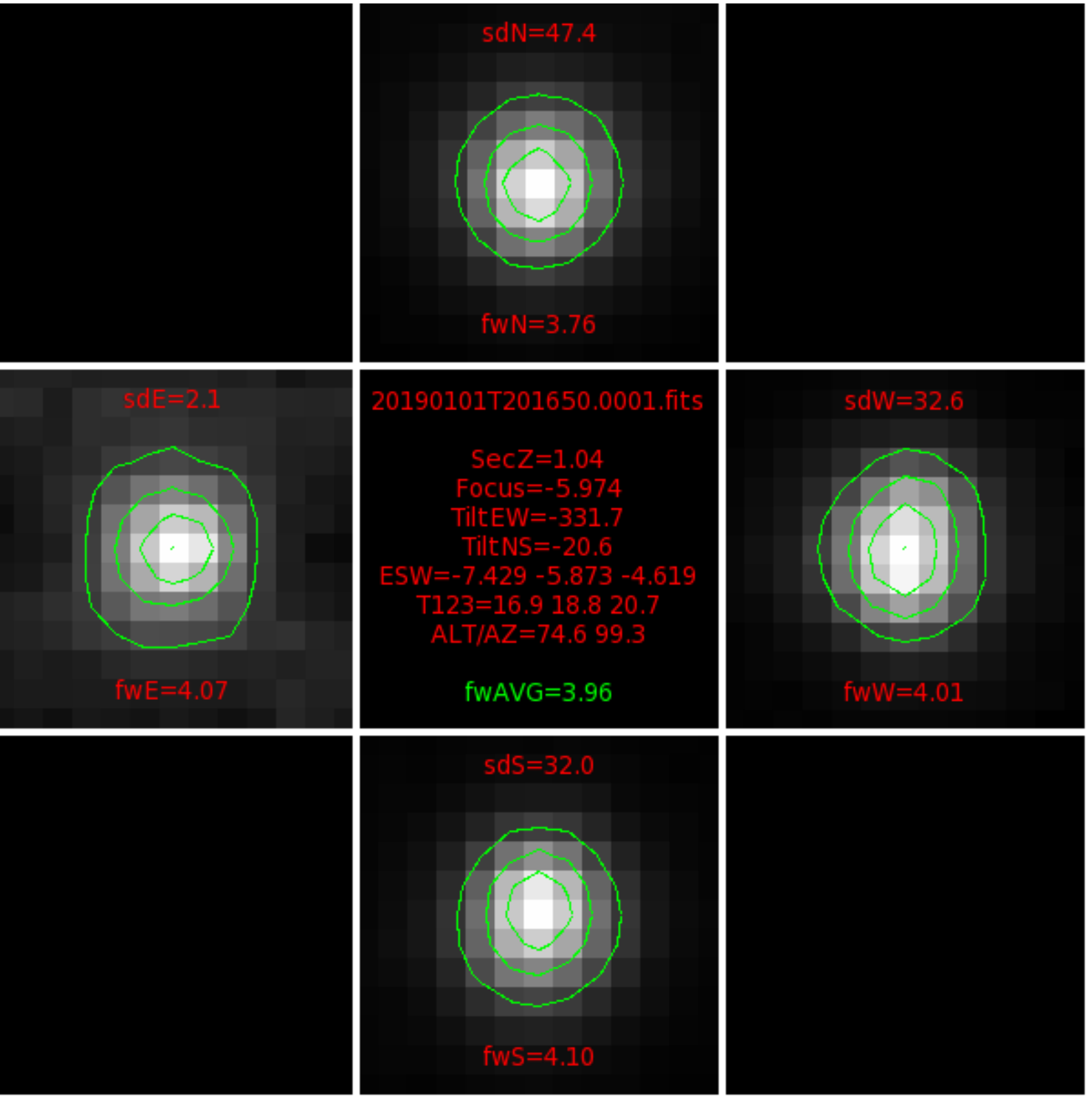
sdN=47.4
fwN=3.76
sdE=2.1
fwE=4.07
20190101T201650.0001.fits
SecZ=1.04
Focus=-5.974
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.429 -5.873 -4.619
T123=16.9 18.8 20.7
ALT/AZ=74.6 99.3
fwAVG=3.96
sdW=32.6
fwW=4.01
sdS=32.0
fwS=4.10
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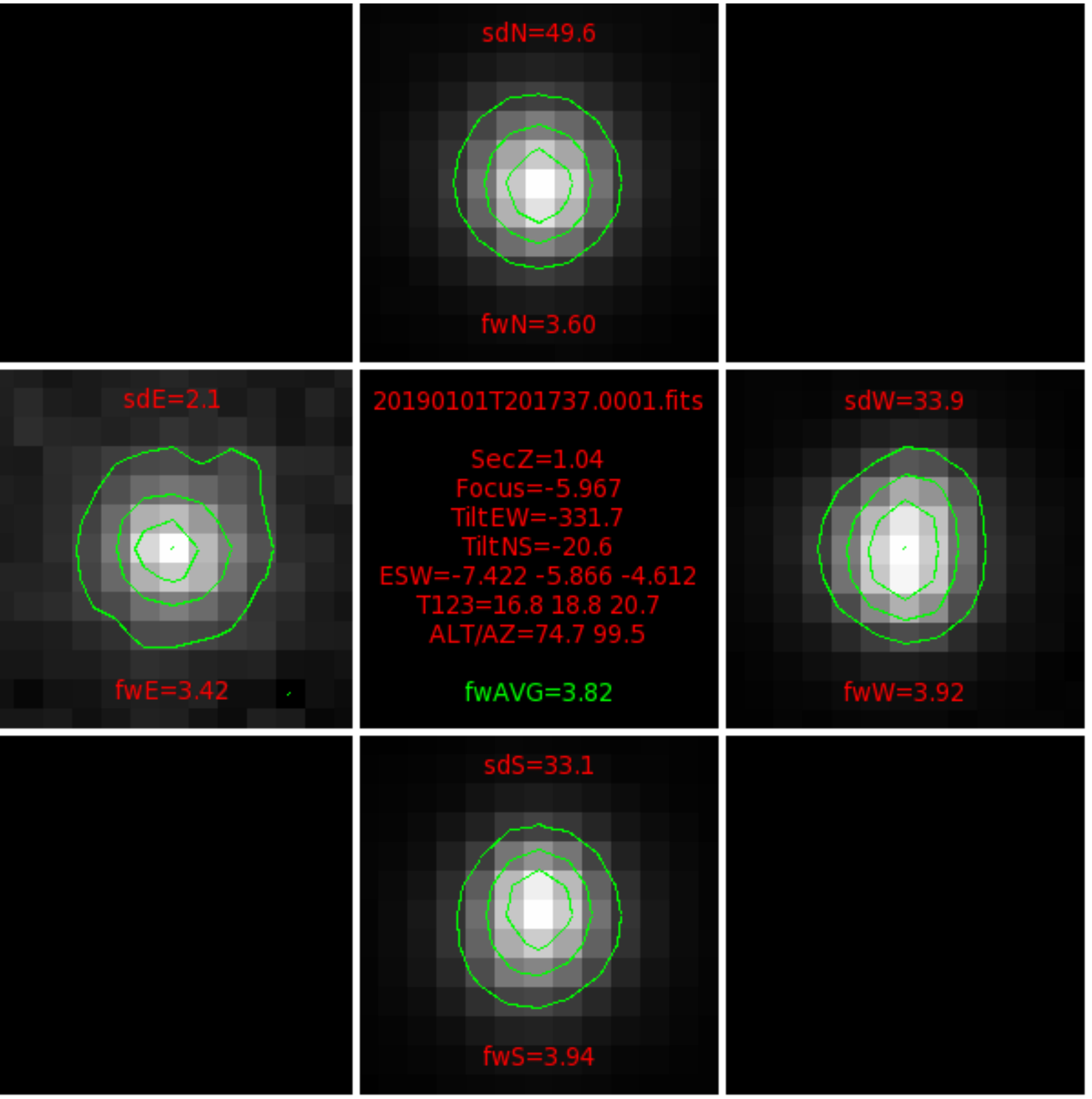
sdN=49.6
fwN=3.60
sdE=2.1
fwE=3.42
20190101T201737.0001.fits
SecZ=1.04
Focus=-5.967
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.422 -5.866 -4.612
T123=16.8 18.8 20.7
ALT/AZ=74.7 99.5
fwAVG=3.82
sdW=33.9
fwW=3.92
sdS=33.1
fwS=3.94
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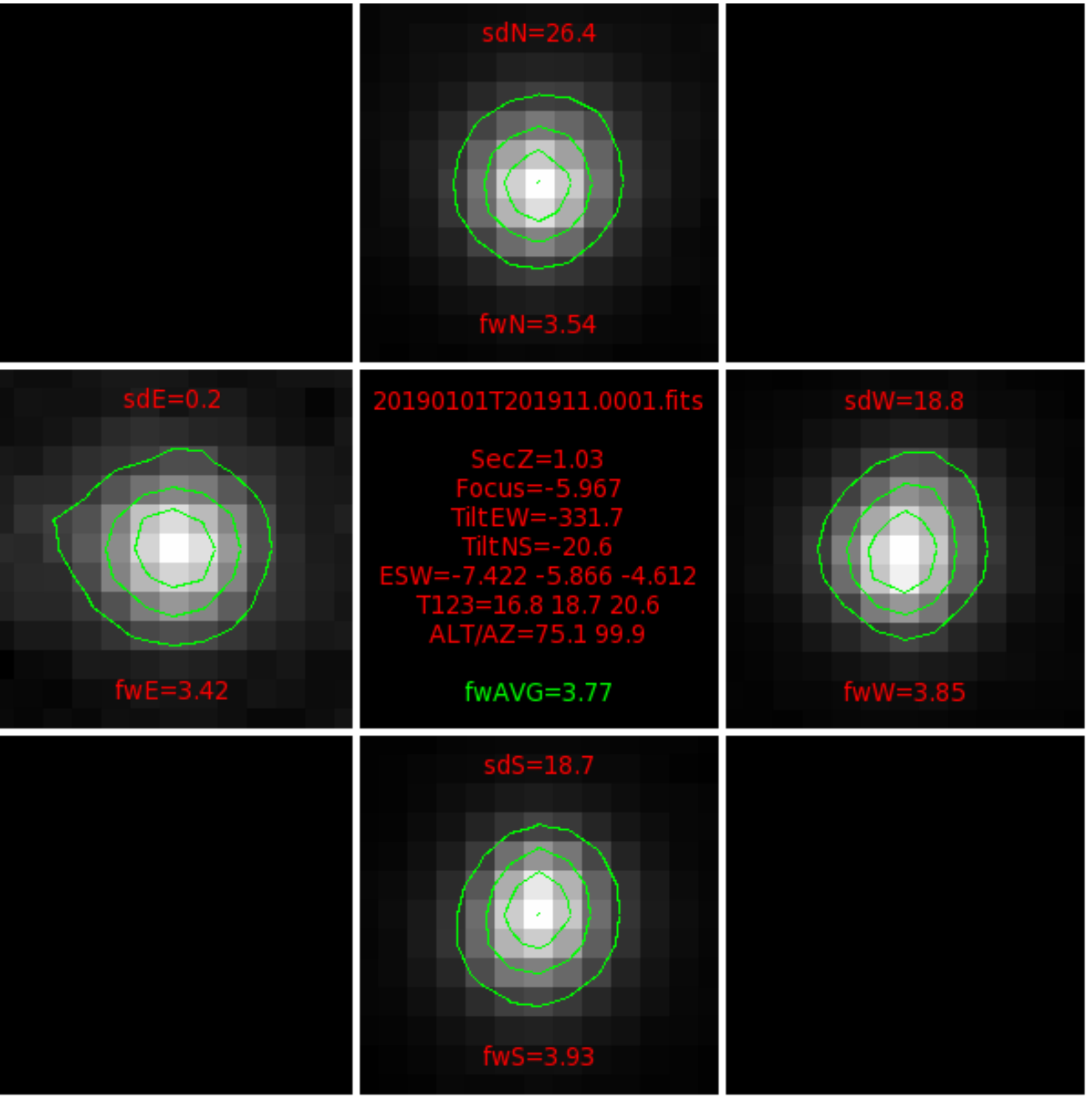
sdN=26.4
fwN=3.54
sdE=0.2
fwE=3.42
20190101T201911.0001.fits
SecZ=1.03
Focus=-5.967
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.422 -5.866 -4.612
T123=16.8 18.7 20.6
ALT/AZ=75.1 99.9
fwAVG=3.77
sdW=18.8
fwW=3.85
sdS=18.7
fwS=3.93
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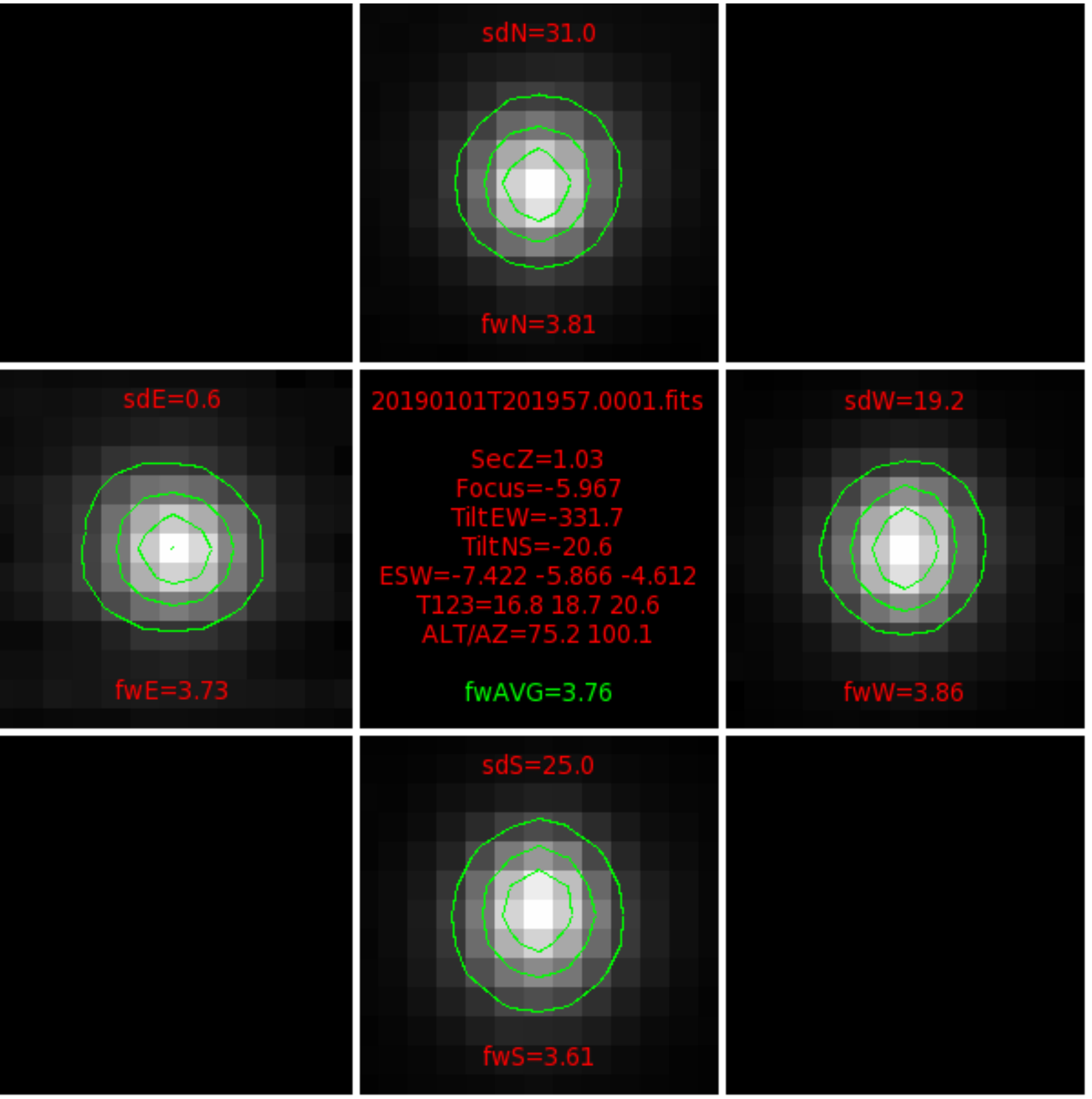
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fwN=3.81
sdE=0.6
fwE=3.73
20190101T201957.0001.fits
SecZ=1.03
Focus=-5.967
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.422 -5.866 -4.612
T123=16.8 18.7 20.6
ALT/AZ=75.2 100.1
fwAVG=3.76
sdW=19.2
fwW=3.86
sdS=25.0
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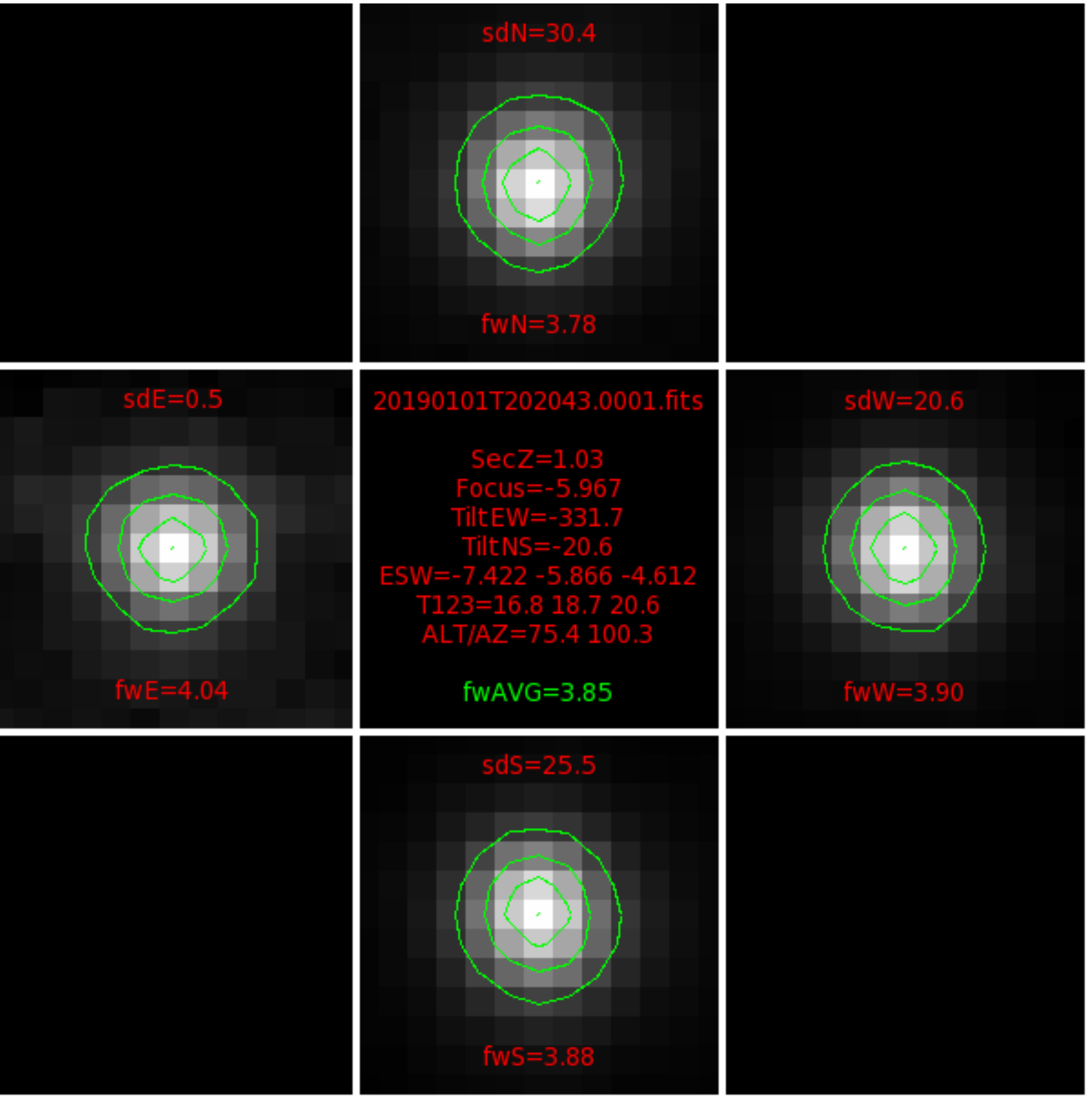
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fwN=3.78
sdE=0.5
fwE=4.04
20190101T202043.0001.fits
SecZ=1.03
Focus=-5.967
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.422 -5.866 -4.612
T123=16.8 18.7 20.6
ALT/AZ=75.4 100.3
fwAVG=3.85
sdW=20.6
fwW=3.90
sdS=25.5
fwS=3.88
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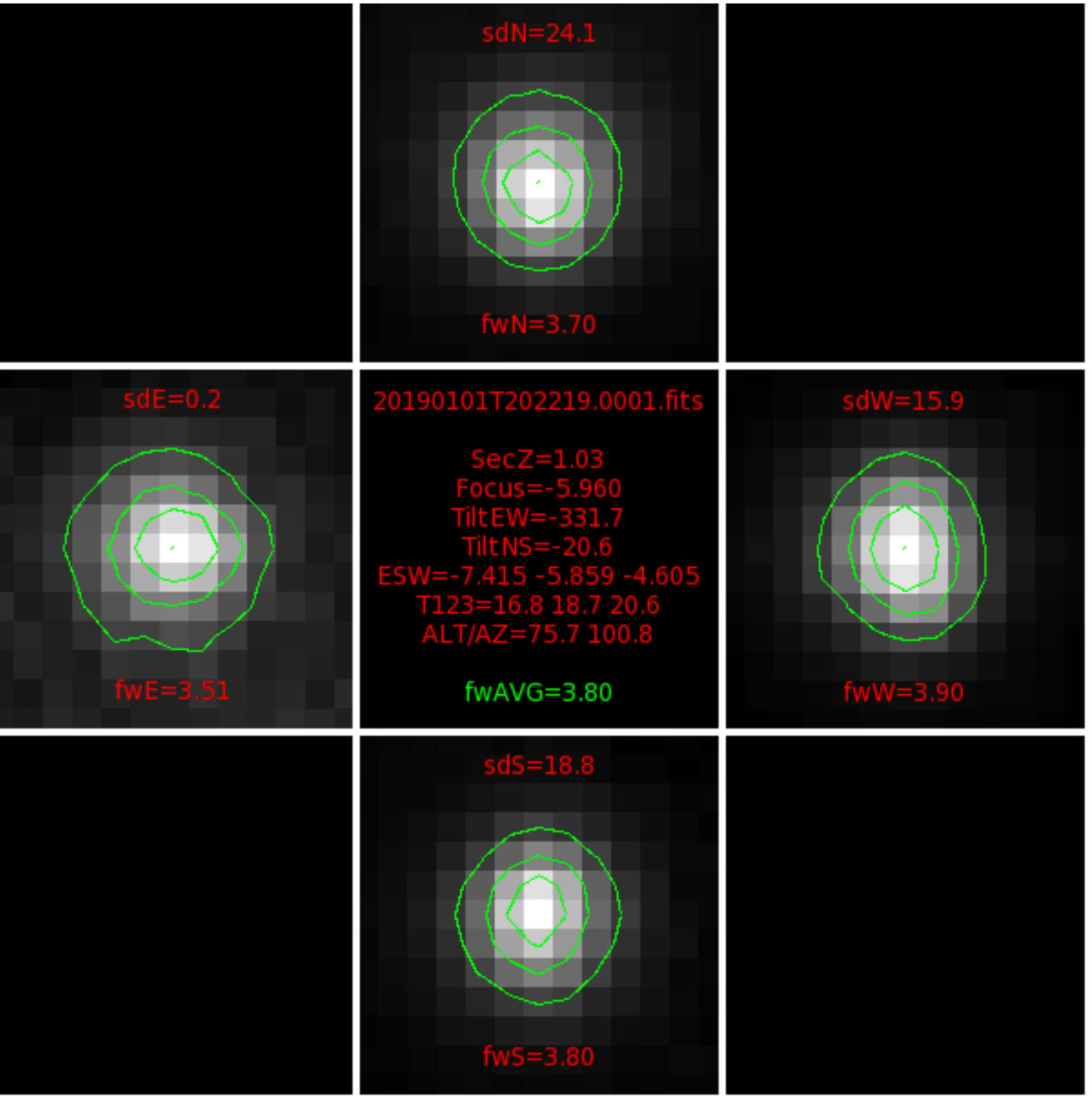
sdN=24.1
fwN=3.70
sdE=0.2
fwE=3.51
20190101T202219.0001.fits
SecZ=1.03
Focus=-5.960
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.415 -5.859 -4.605
T123=16.8 18.7 20.6
ALT/AZ=75.7 100.8
fwAVG=3.80
sdW=15.9
fwW=3.90
sdS=18.8
fwS=3.80
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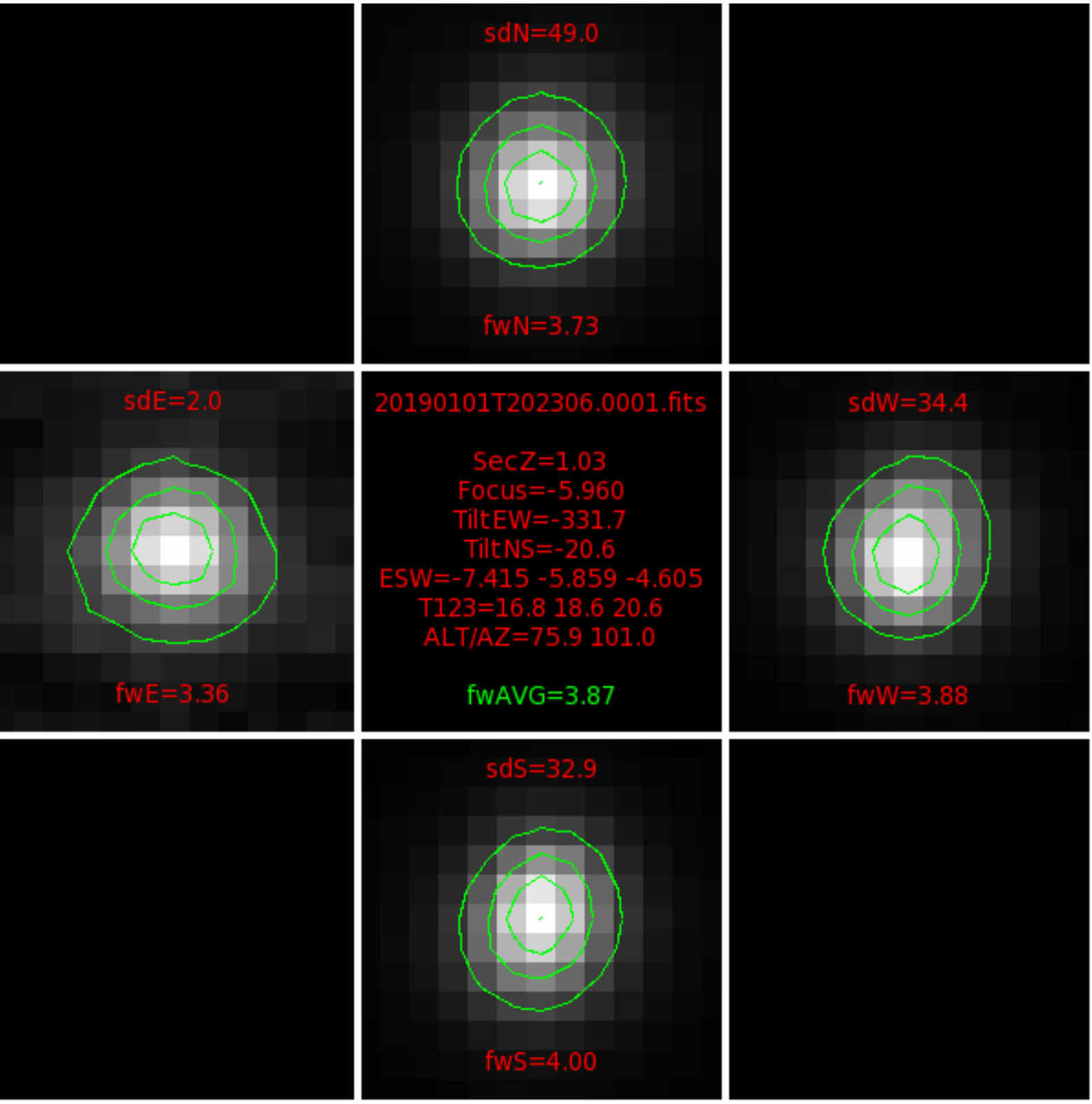
sdN=49.0
fwN=3.73
sdE=2.0
fwE=3.36
20190101T202306.0001.fits
SecZ=1.03
Focus=-5.960
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.415 -5.859 -4.605
T123=16.8 18.6 20.6
ALT/AZ=75.9 101.0
fwAVG=3.87
sdW=34.4
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sdS=32.9
fwS=4.00
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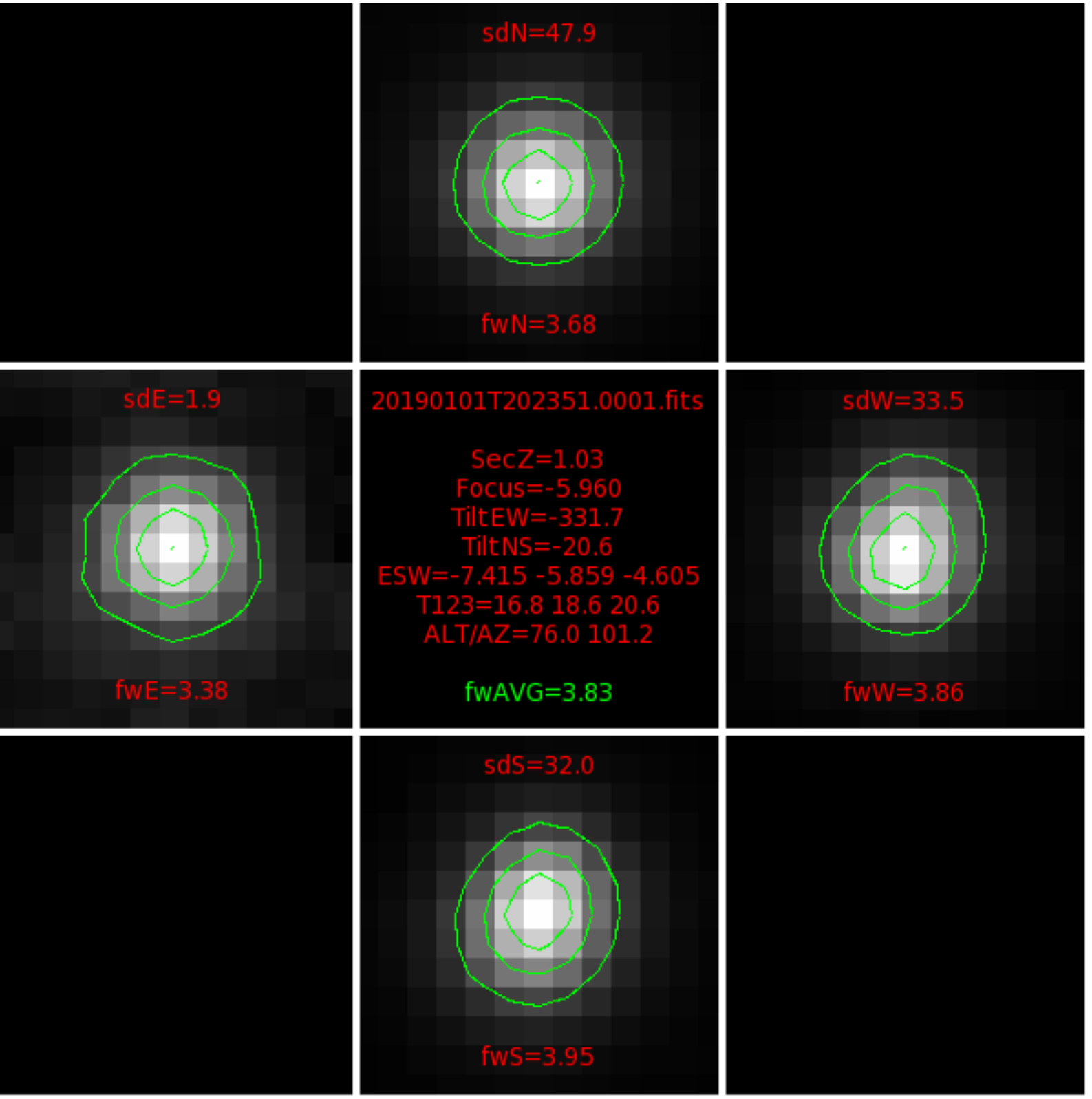
sdN=47.9
fwN=3.68
sdE=1.9
fwE=3.38
20190101T202351.0001.fits
SecZ=1.03
Focus=-5.960
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.415 -5.859 -4.605
T123=16.8 18.6 20.6
ALT/AZ=76.0 101.2
fwAVG=3.83
sdW=33.5
fwW=3.86
sdS=32.0
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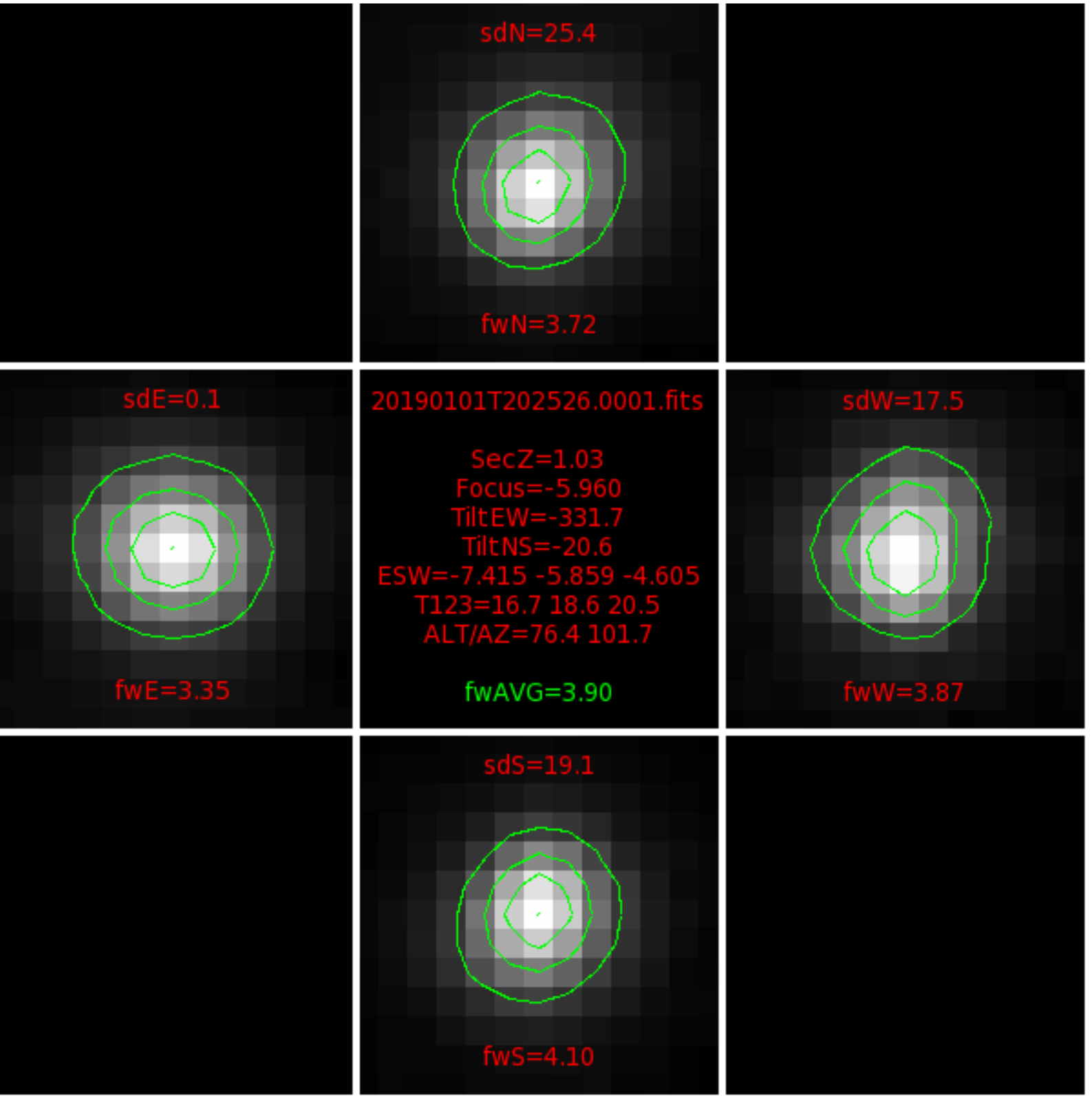
sdN=25.4
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sdE=0.1
fwE=3.35
20190101T202526.0001.fits
SecZ=1.03
Focus=-5.960
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.415 -5.859 -4.605
T123=16.7 18.6 20.5
ALT/AZ=76.4 101.7
fwAVG=3.90
sdW=17.5
fwW=3.87
sdS=19.1
fwS=4.10
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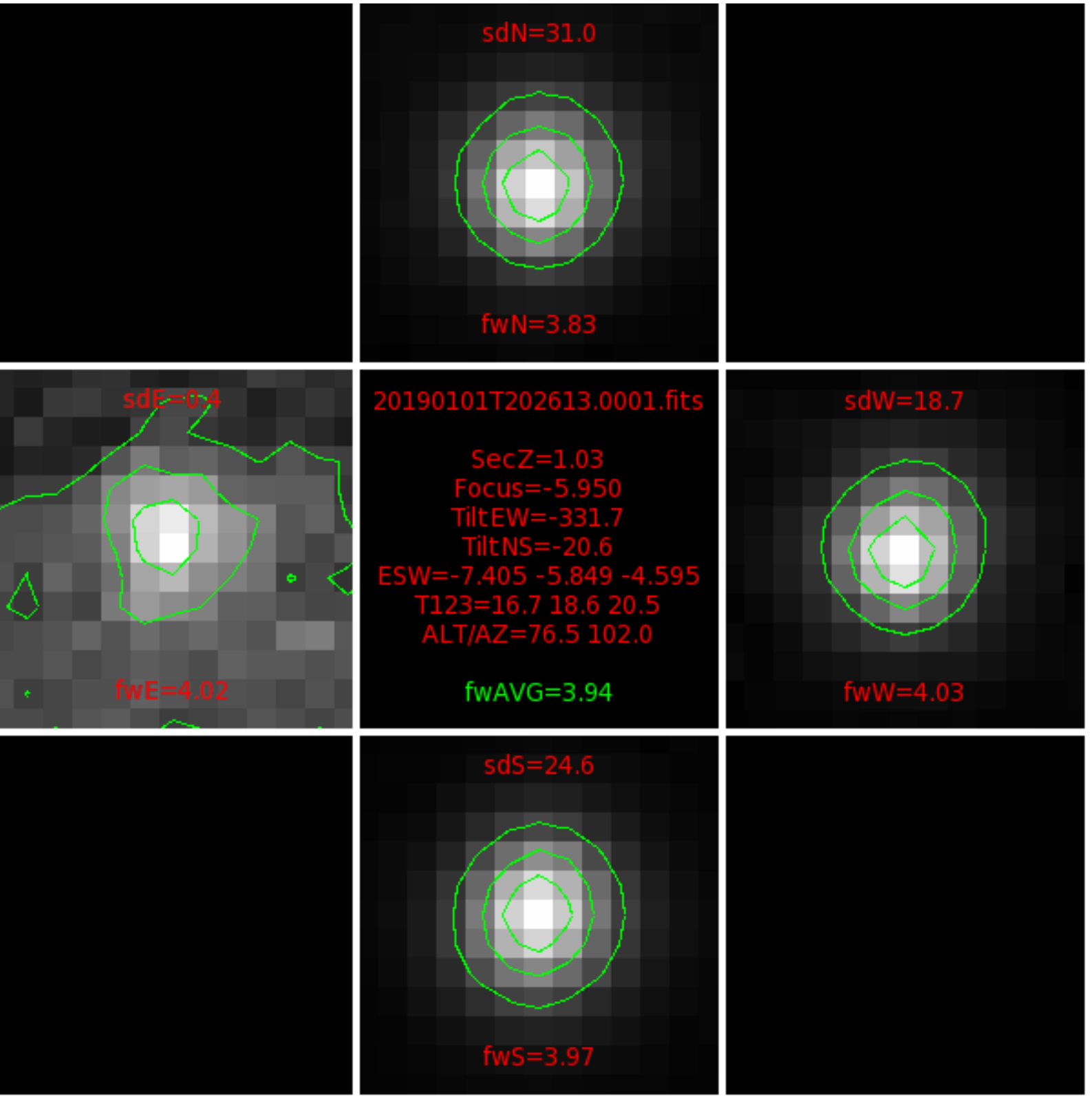
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sdE=0.4
fwE=4.02
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SecZ=1.03
Focus=-5.950
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.405 -5.849 -4.595
T123=16.7 18.6 20.5
ALT/AZ=76.5 102.0
fwAVG=3.94
sdW=18.7
fwW=4.03
sdS=24.6
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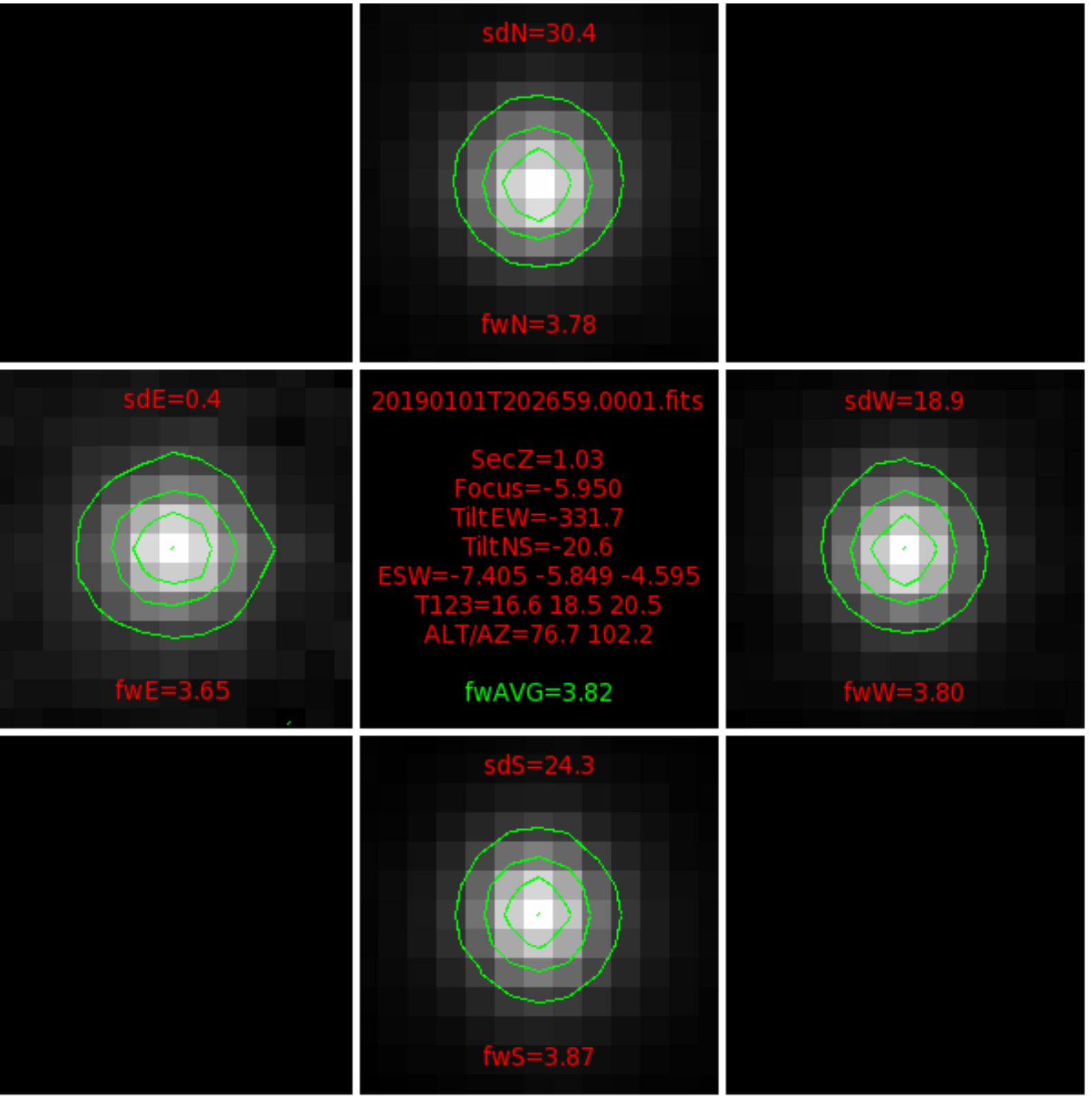
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sdE=0.4
fwE=3.65
20190101T202659.0001.fits
SecZ=1.03
Focus=-5.950
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.405 -5.849 -4.595
T123=16.6 18.5 20.5
ALT/AZ=76.7 102.2
fwAVG=3.82
sdW=18.9
fwW=3.80
sdS=24.3
fwS=3.87
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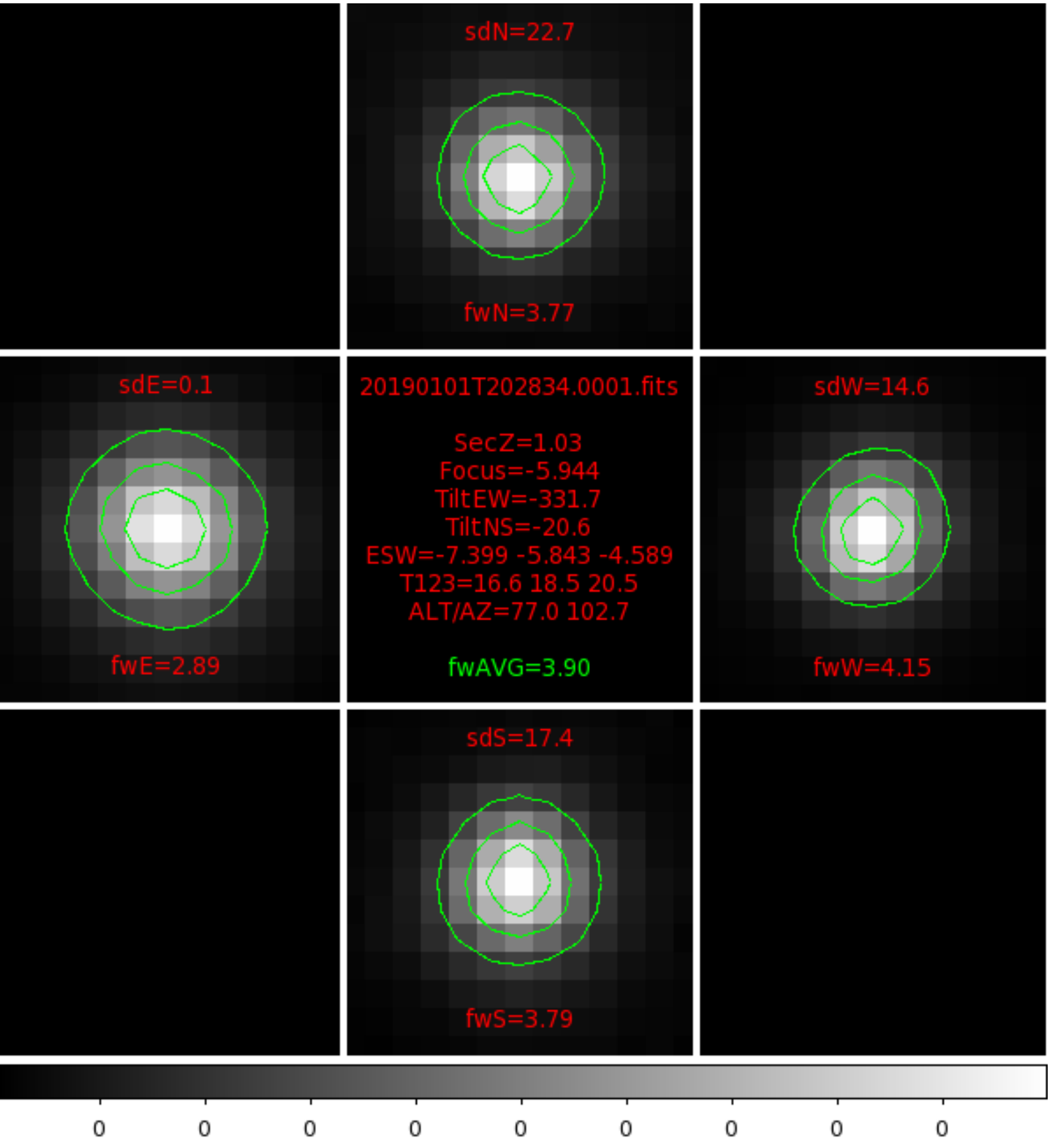
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sdE=0.1
fwE=2.89
20190101T202834.0001.fits
SecZ=1.03
Focus=-5.944
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.399 -5.843 -4.589
T123=16.6 18.5 20.5
ALT/AZ=77.0 102.7
fwAVG=3.90
sdW=14.6
fwW=4.15
sdS=17.4
fwS=3.79
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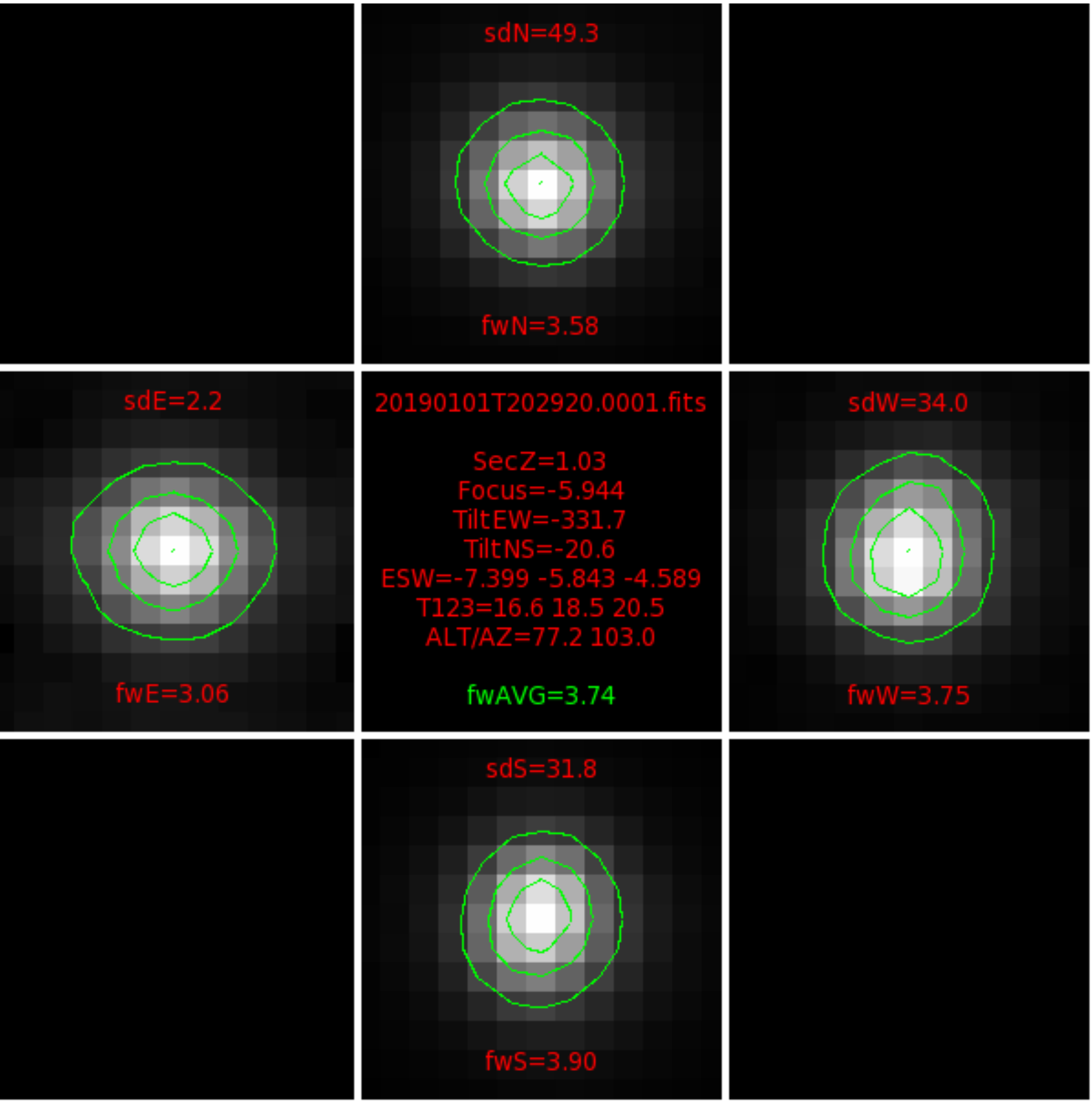
sdN=49.3
fwN=3.58
sdE=2.2
fwE=3.06
20190101T202920.0001.fits
SecZ=1.03
Focus=-5.944
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.399 -5.843 -4.589
T123=16.6 18.5 20.5
ALT/AZ=77.2 103.0
fwAVG=3.74
sdW=34.0
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sdS=31.8
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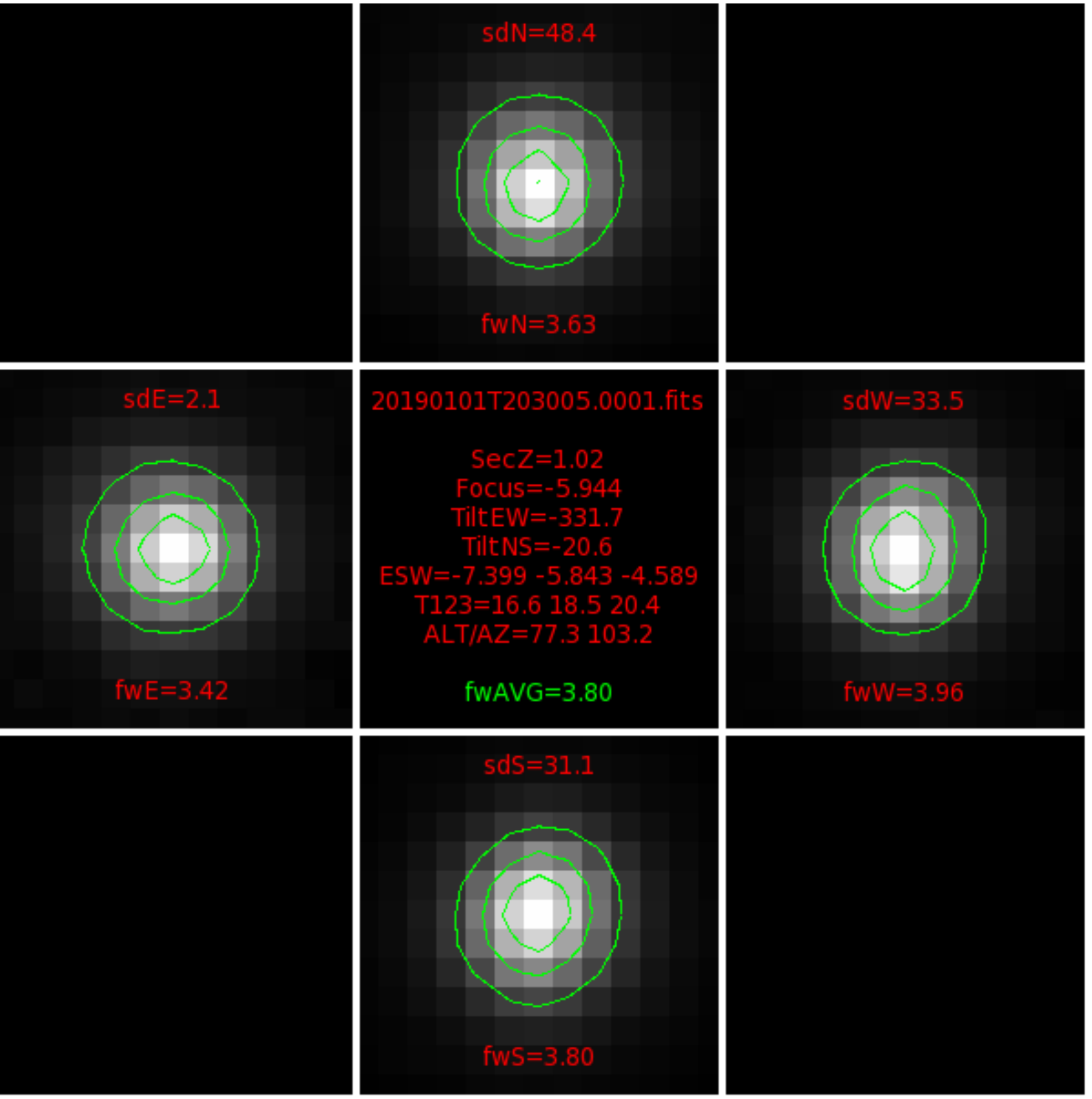
sdN=48.4
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sdE=2.1
fwE=3.42
20190101T203005.0001.fits
SecZ=1.02
Focus=-5.944
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.399 -5.843 -4.589
T123=16.6 18.5 20.4
ALT/AZ=77.3 103.2
fwAVG=3.80
sdW=33.5
fwW=3.96
sdS=31.1
fwS=3.80
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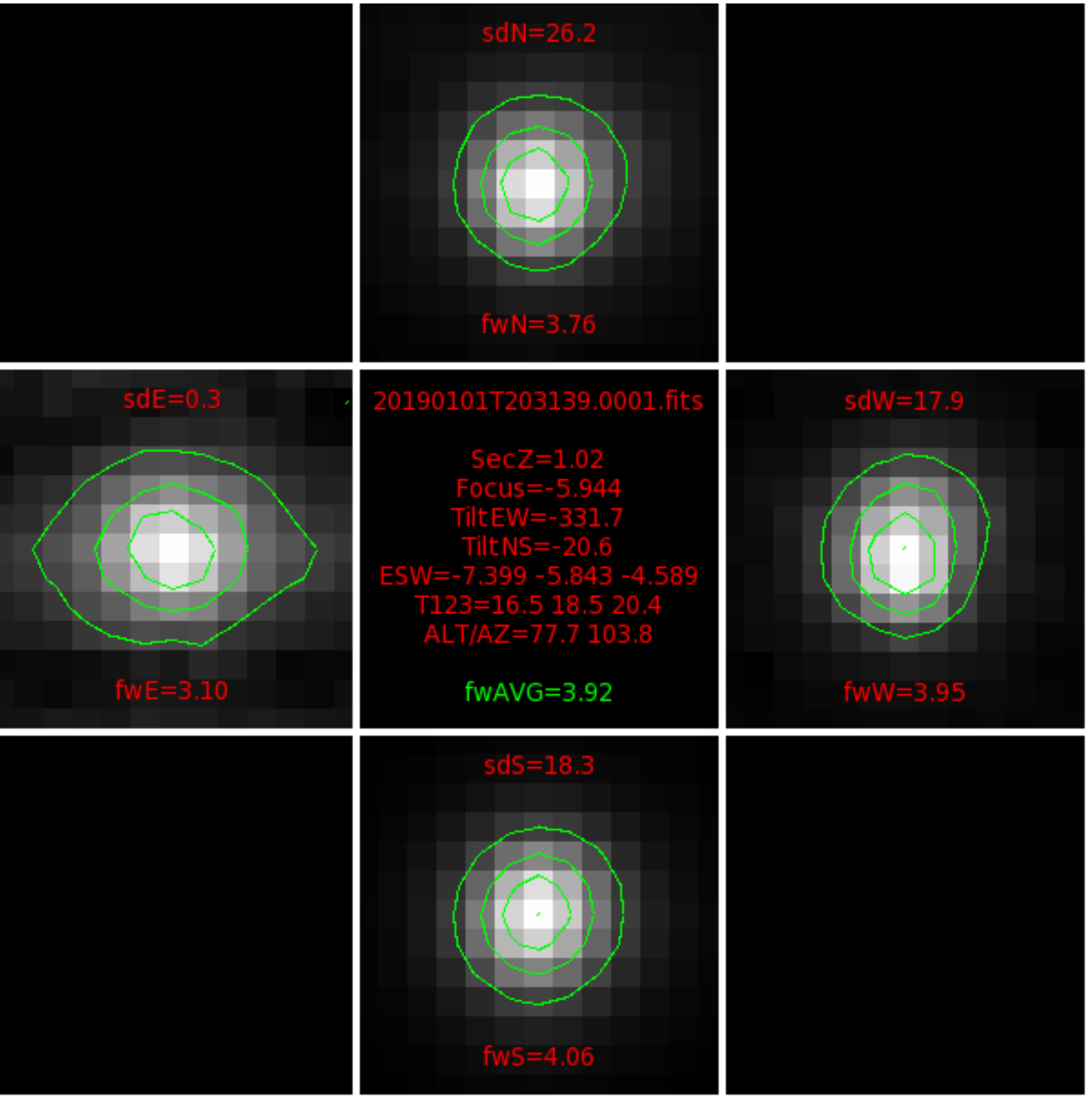
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fwE=3.10
20190101T203139.0001.fits
SecZ=1.02
Focus=-5.944
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.399 -5.843 -4.589
T123=16.5 18.5 20.4
ALT/AZ=77.7 103.8
fwAVG=3.92
sdW=17.9
fwW=3.95
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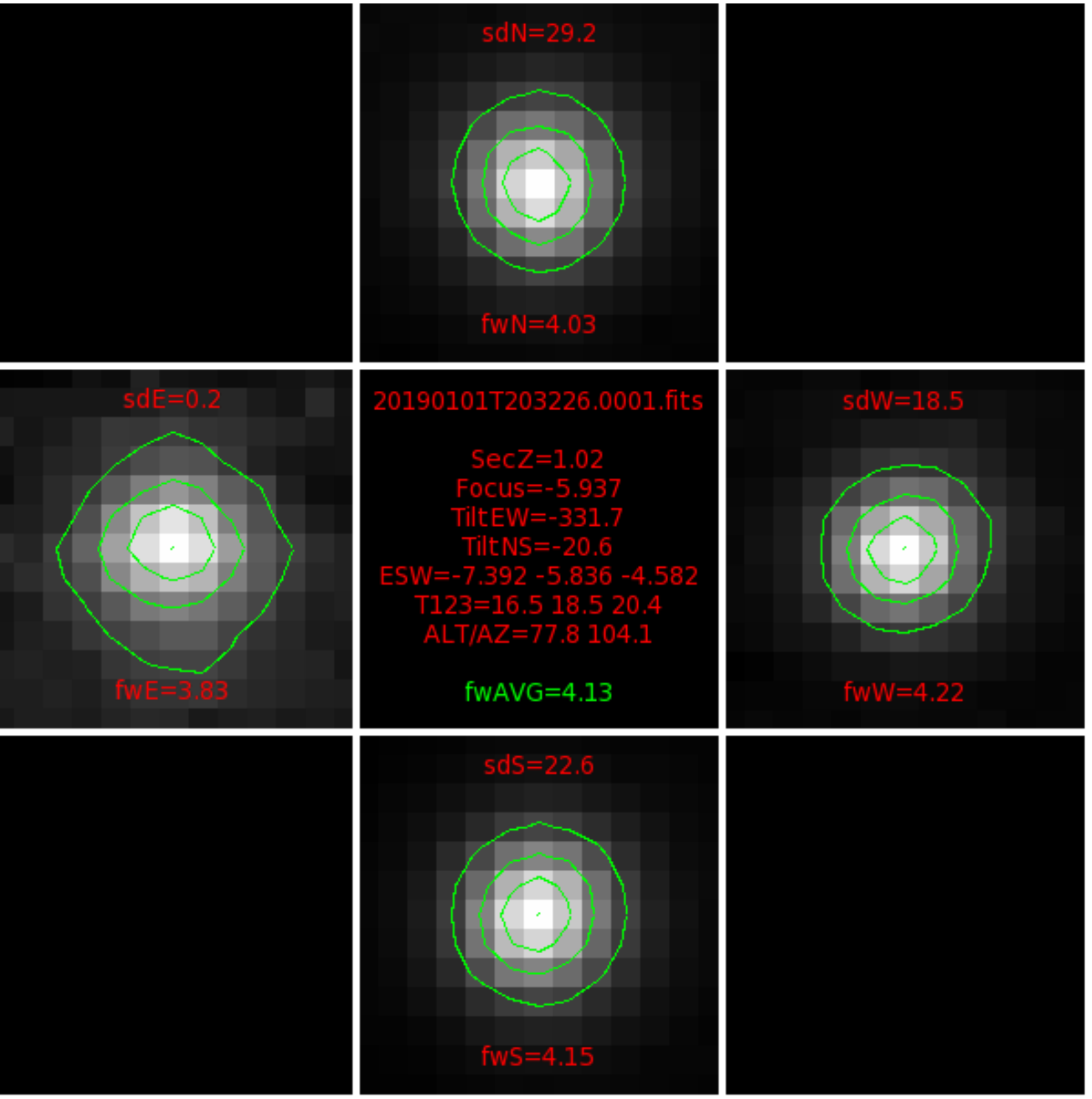
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fwN=4.03
sdE=0.2
fwE=3.83
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SecZ=1.02
Focus=-5.937
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.392 -5.836 -4.582
T123=16.5 18.5 20.4
ALT/AZ=77.8 104.1
fwAVG=4.13
sdW=18.5
fwW=4.22
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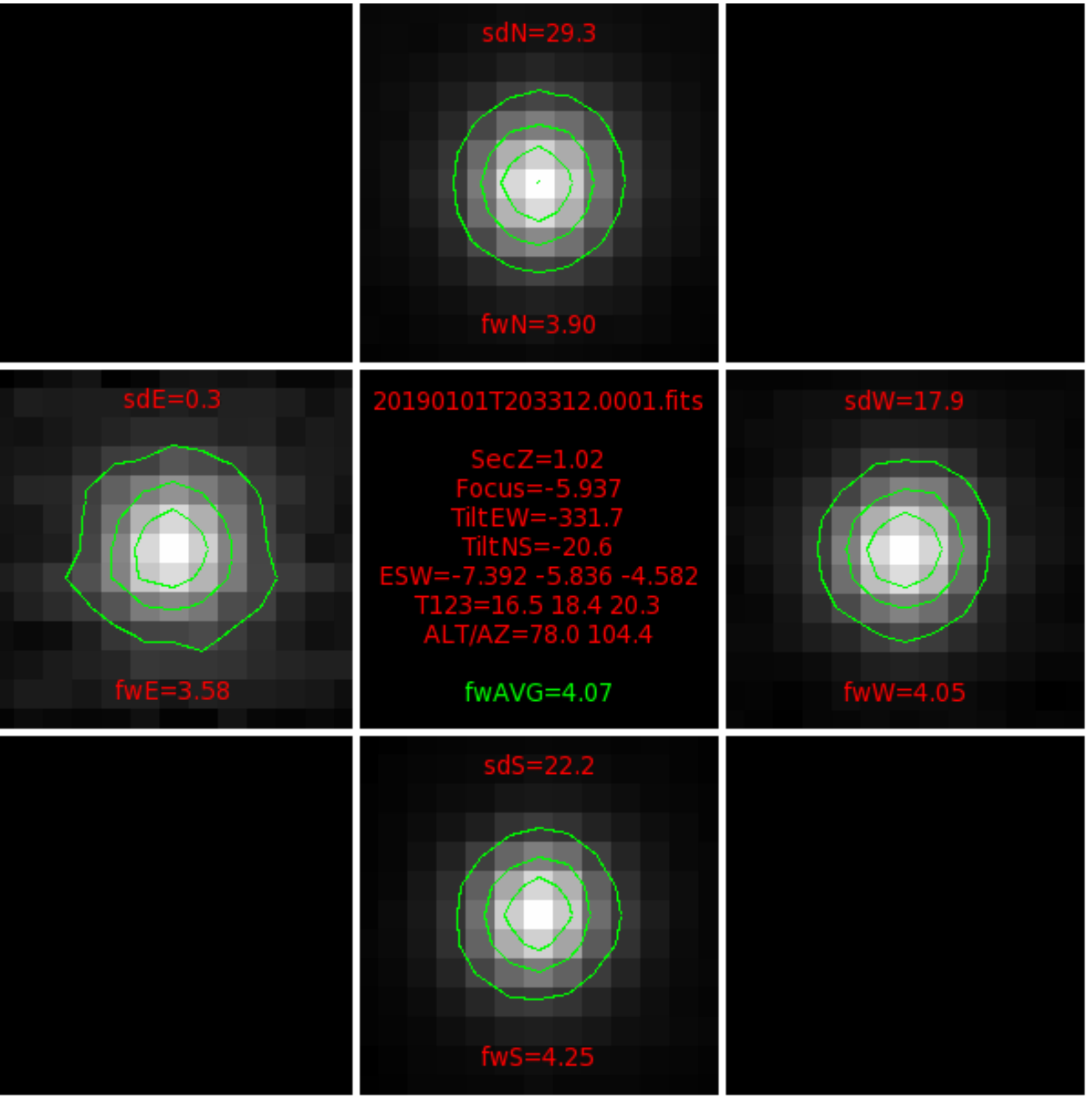
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fwN=3.90
sdE=0.3
fwE=3.58
20190101T203312.0001.fits
SecZ=1.02
Focus=-5.937
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.392 -5.836 -4.582
T123=16.5 18.4 20.3
ALT/AZ=78.0 104.4
fwAVG=4.07
sdW=17.9
fwW=4.05
sdS=22.2
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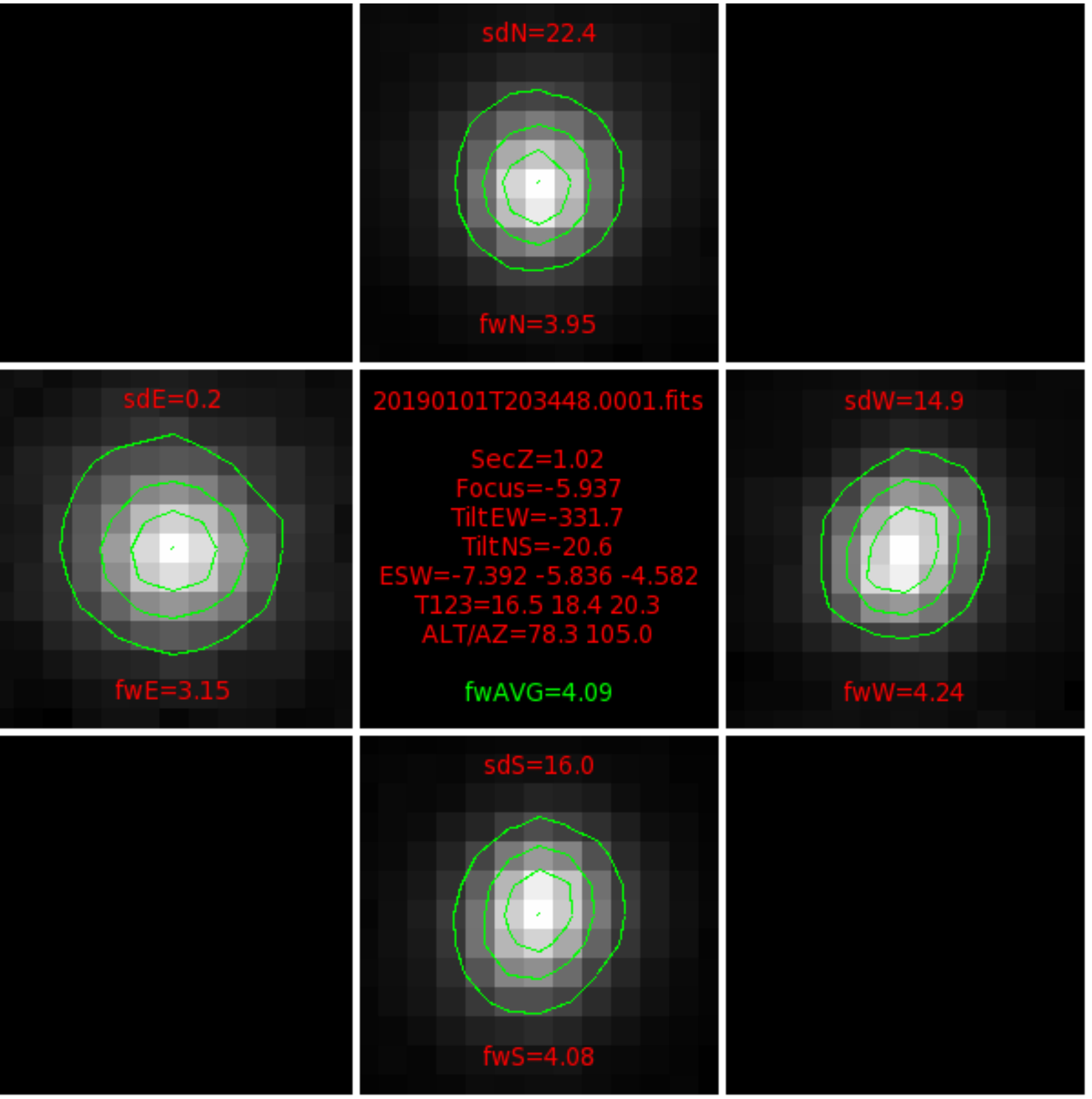
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fwN=3.95
sdE=0.2
fwE=3.15
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SecZ=1.02
Focus=-5.937
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.392 -5.836 -4.582
T123=16.5 18.4 20.3
ALT/AZ=78.3 105.0
fwAVG=4.09
sdW=14.9
fwW=4.24
sdS=16.0
fwS=4.08
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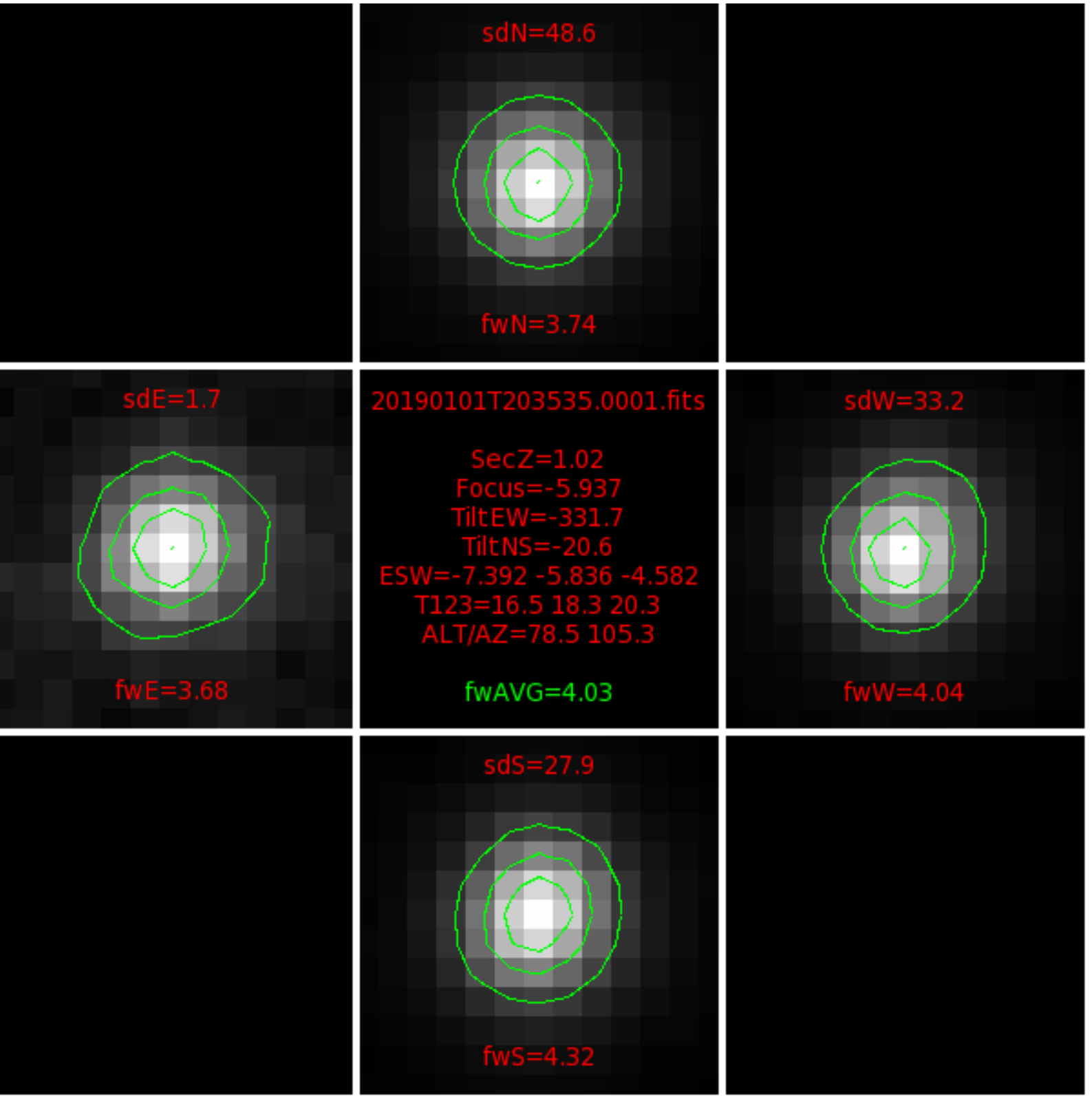
sdN=48.6
fwN=3.74
sdE=1.7
fwE=3.68
20190101T203535.0001.fits
SecZ=1.02
Focus=-5.937
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.392 -5.836 -4.582
T123=16.5 18.3 20.3
ALT/AZ=78.5 105.3
fwAVG=4.03
sdW=33.2
fwW=4.04
sdS=27.9
fwS=4.32
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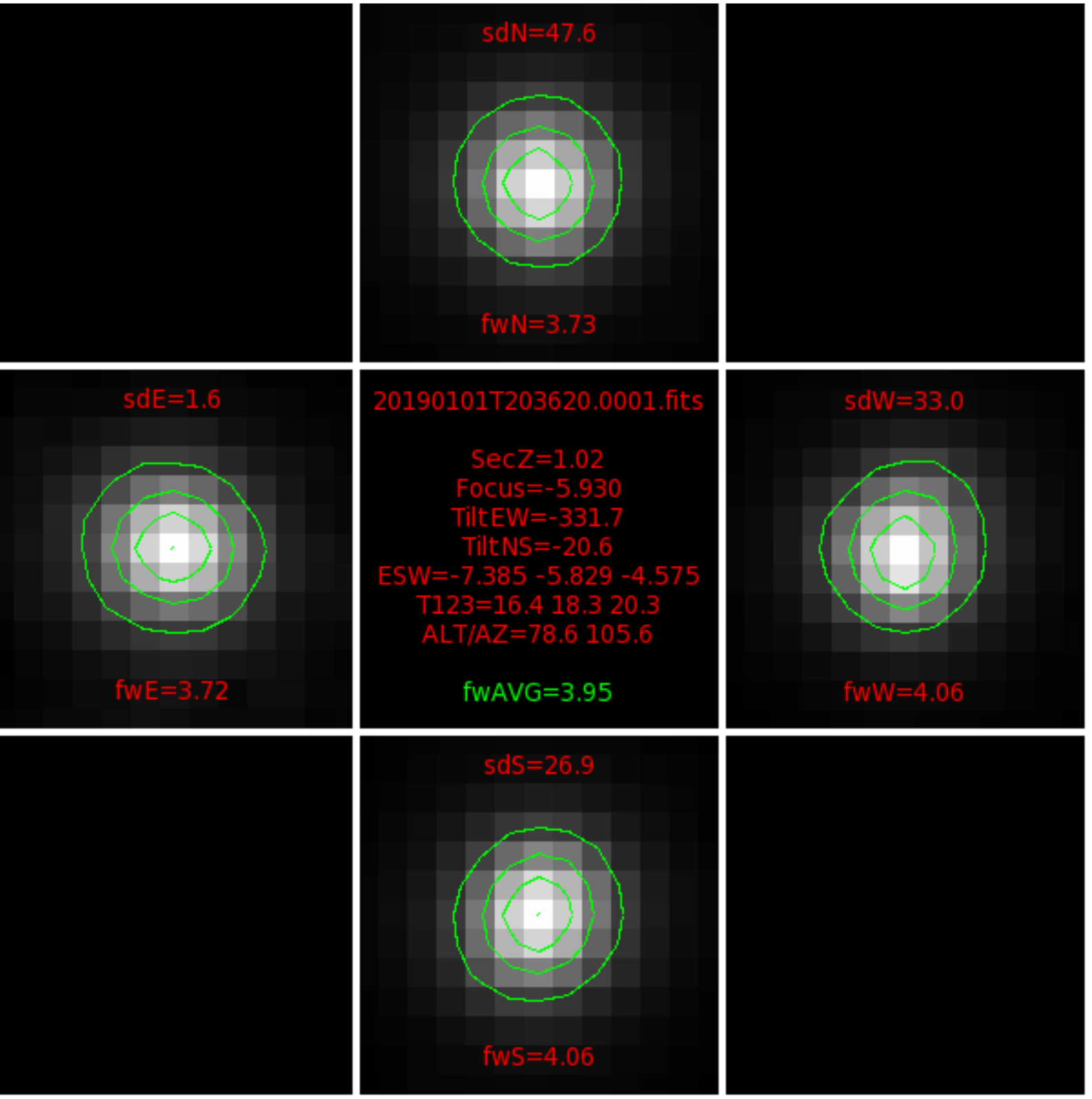
sdN=47.6
fwN=3.73
sdE=1.6
fwE=3.72
20190101T203620.0001.fits
SecZ=1.02
Focus=-5.930
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.385 -5.829 -4.575
T123=16.4 18.3 20.3
ALT/AZ=78.6 105.6
fwAVG=3.95
sdW=33.0
fwW=4.06
sdS=26.9
fwS=4.06
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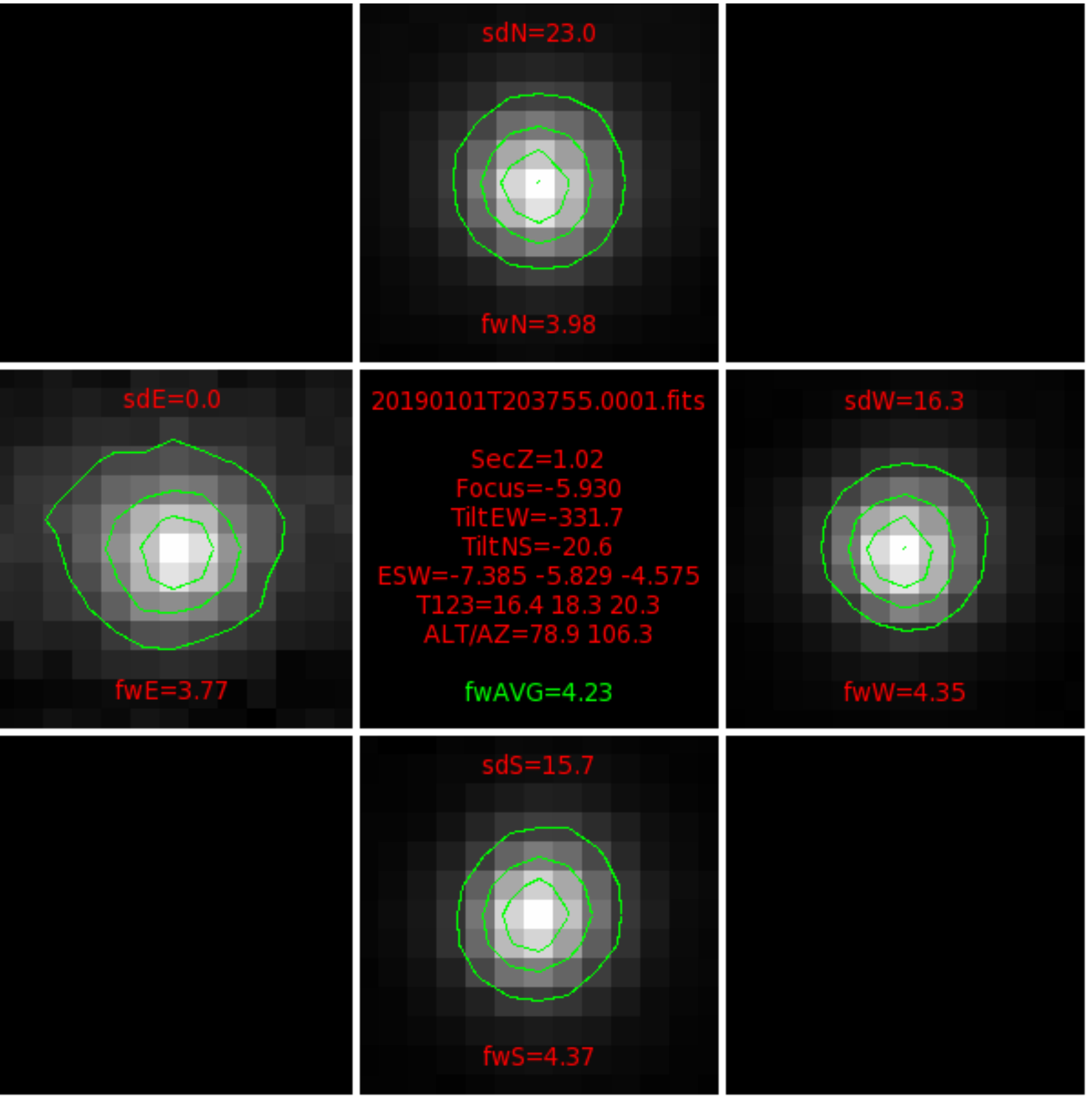
sdN=23.0
fwN=3.98
sdE=0.0
fwE=3.77
20190101T203755.0001.fits
SecZ=1.02
Focus=-5.930
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.385 -5.829 -4.575
T123=16.4 18.3 20.3
ALT/AZ=78.9 106.3
fwAVG=4.23
sdW=16.3
fwW=4.35
sdS=15.7
fwS=4.37
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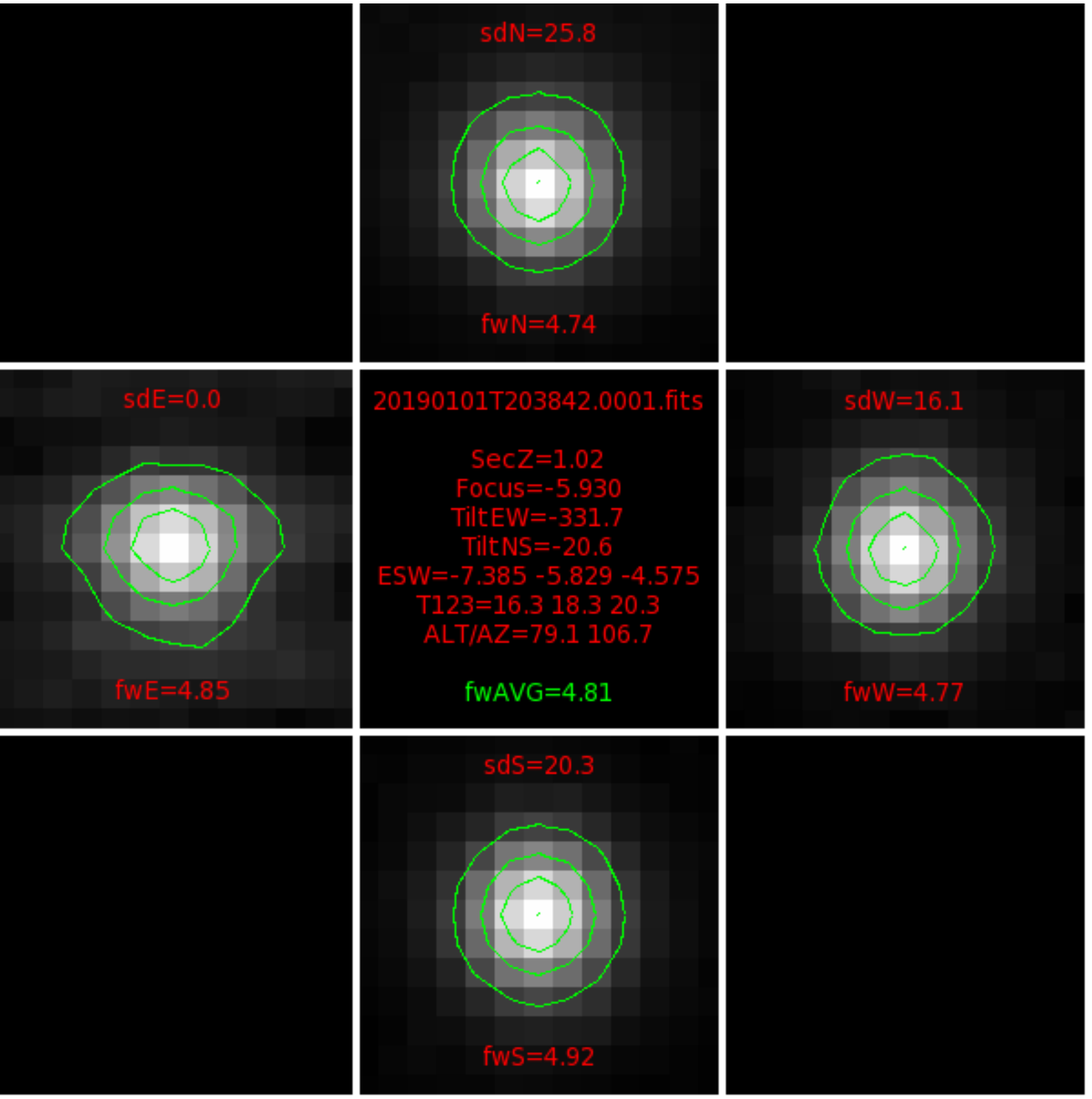
sdN=25.8
fwN=4.74
sdE=0.0
fwE=4.85
20190101T203842.0001.fits
SecZ=1.02
Focus=-5.930
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.385 -5.829 -4.575
T123=16.3 18.3 20.3
ALT/AZ=79.1 106.7
fwAVG=4.81
sdW=16.1
fwW=4.77
sdS=20.3
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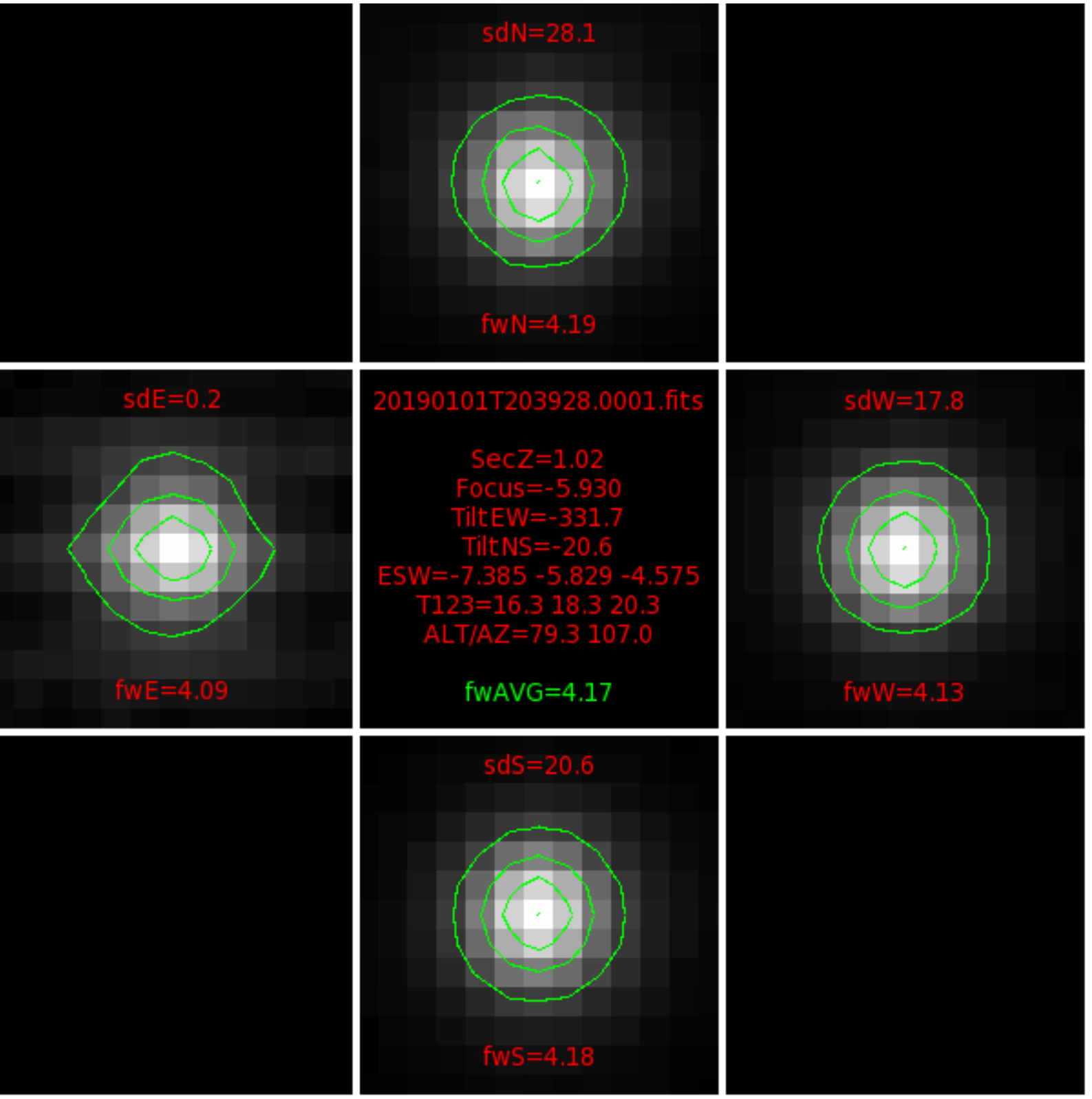
sdN=28.1
fwN=4.19
sdE=0.2
fwE=4.09
20190101T203928.0001.fits
SecZ=1.02
Focus=-5.930
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.385 -5.829 -4.575
T123=16.3 18.3 20.3
ALT/AZ=79.3 107.0
fwAVG=4.17
sdW=17.8
fwW=4.13
sdS=20.6
fwS=4.18
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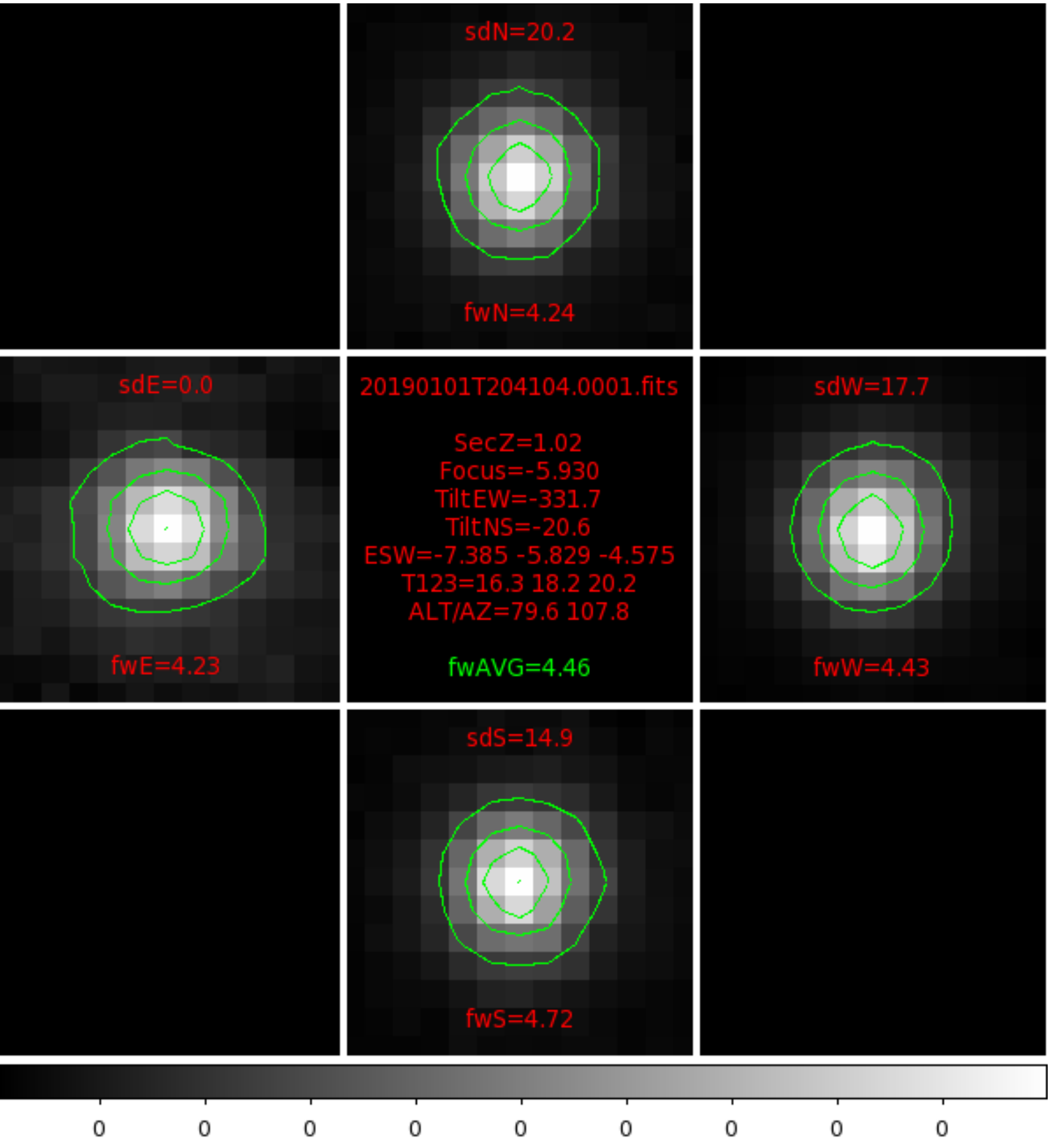
sdN=20.2
fwN=4.24
sdE=0.0
fwE=4.23
20190101T204104.0001.fits
SecZ=1.02
Focus=-5.930
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.385 -5.829 -4.575
T123=16.3 18.2 20.2
ALT/AZ=79.6 107.8
fwAVG=4.46
sdW=17.7
fwW=4.43
sdS=14.9
fwS=4.72
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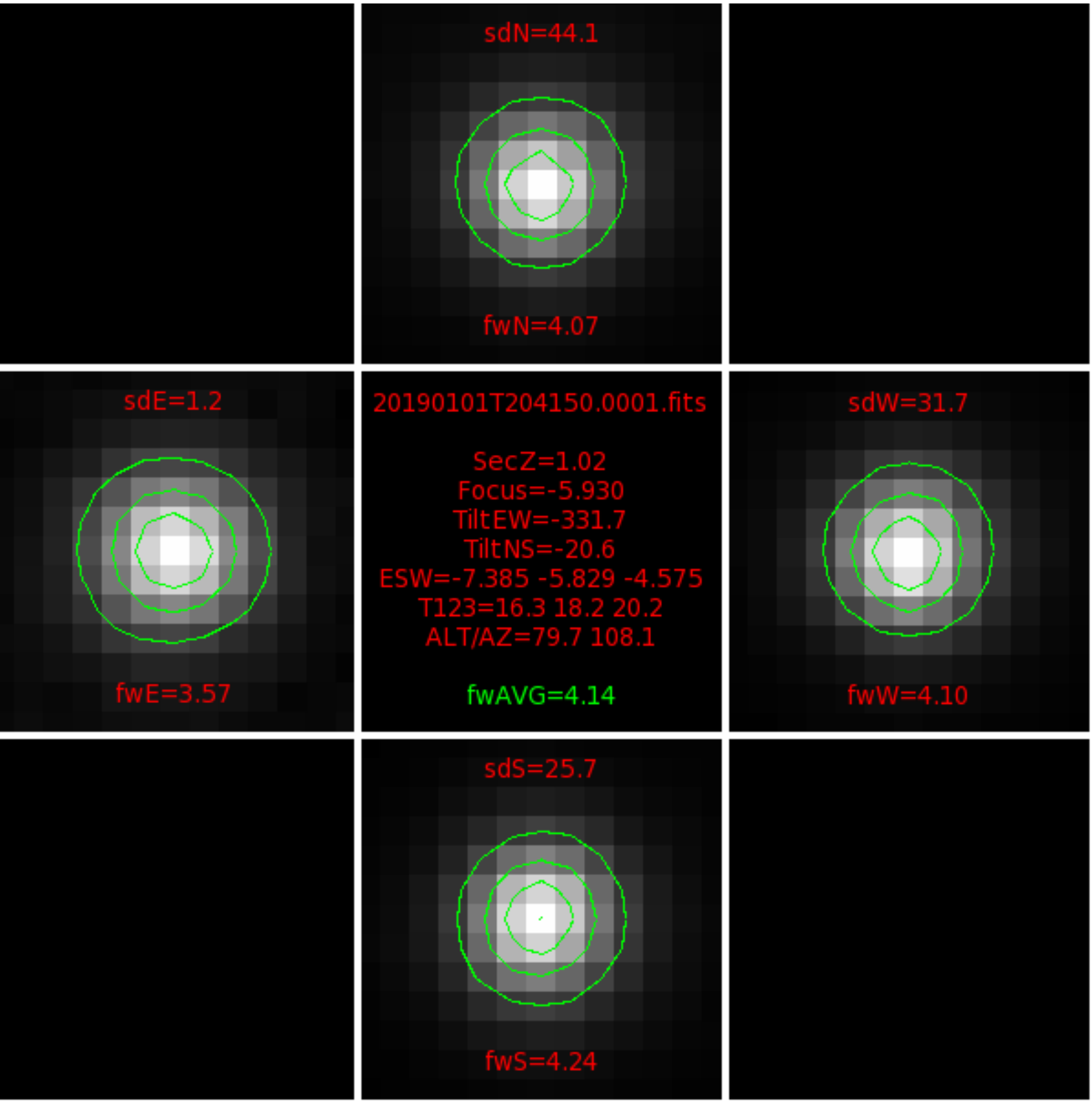
sdN=44.1
fwN=4.07
sdE=1.2
fwE=3.57
20190101T204150.0001.fits
SecZ=1.02
Focus=-5.930
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.385 -5.829 -4.575
T123=16.3 18.2 20.2
ALT/AZ=79.7 108.1
fwAVG=4.14
sdW=31.7
fwW=4.10
sdS=25.7
fwS=4.24
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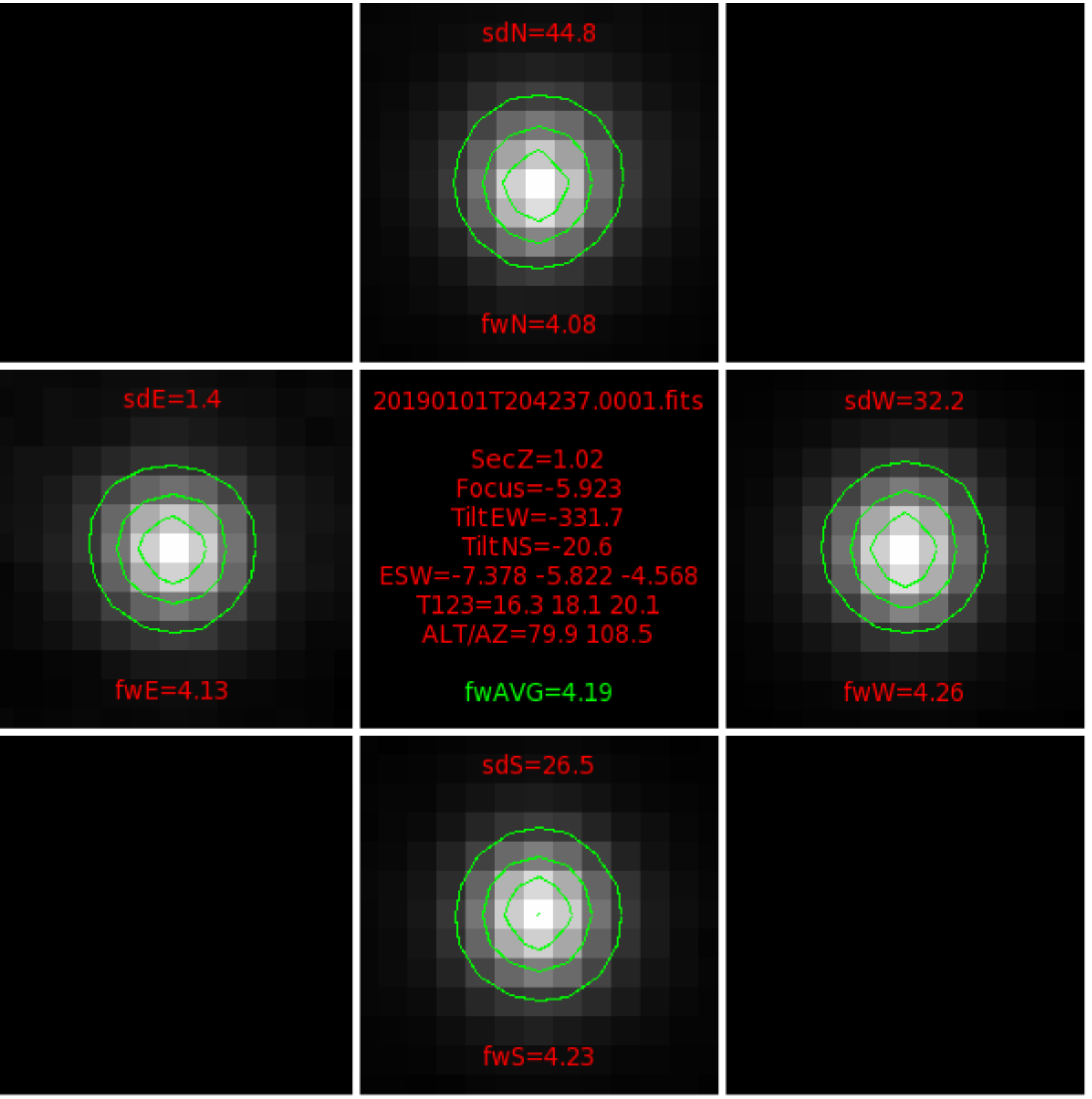
sdN=44.8
fwN=4.08
sdE=1.4
fwE=4.13
20190101T204237.0001.fits
SecZ=1.02
Focus=-5.923
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.378 -5.822 -4.568
T123=16.3 18.1 20.1
ALT/AZ=79.9 108.5
fwAVG=4.19
sdW=32.2
fwW=4.26
sdS=26.5
fwS=4.23
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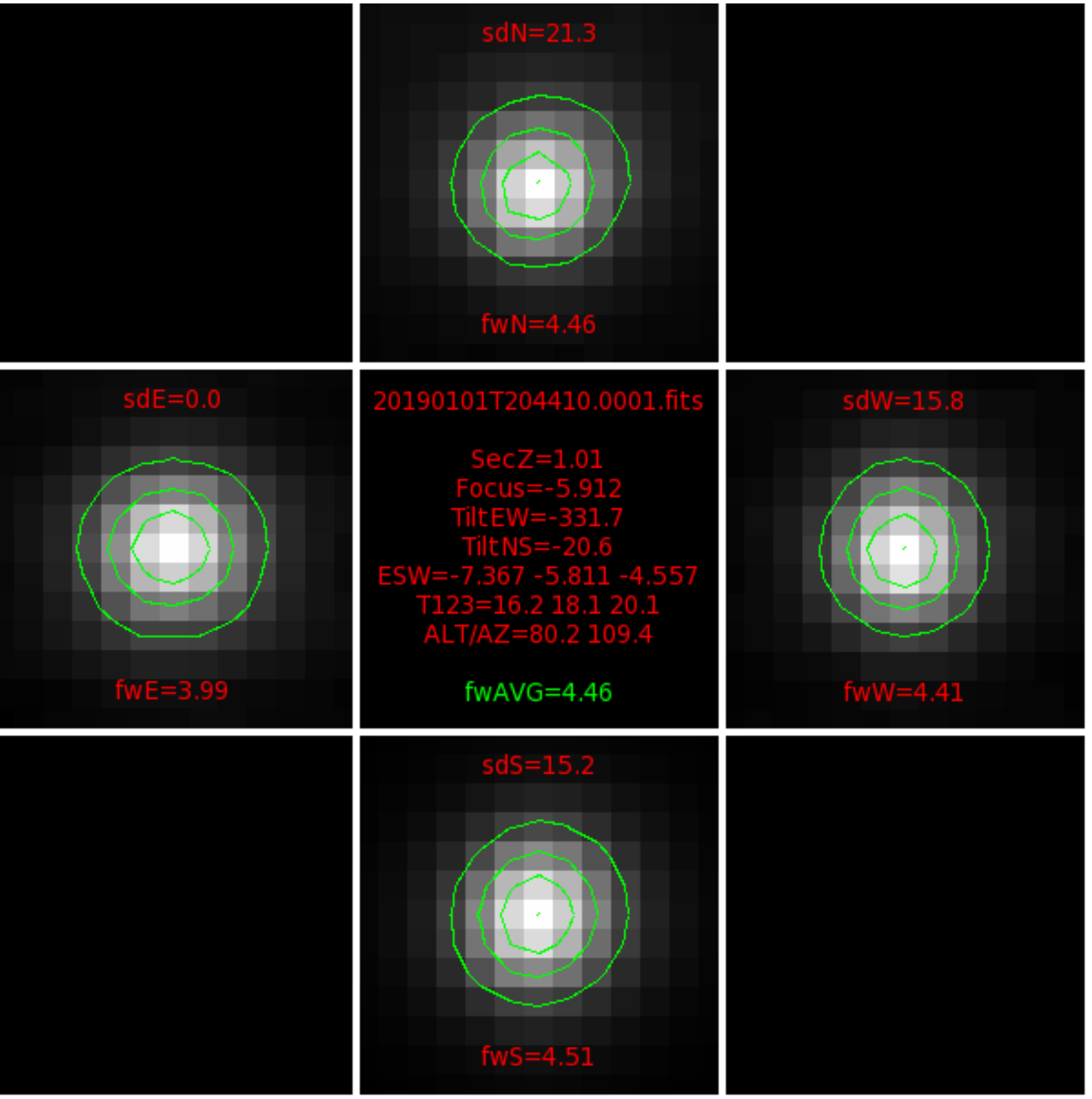
sdN=21.3
fwN=4.46
sdE=0.0
fwE=3.99
20190101T204410.0001.fits
SecZ=1.01
Focus=-5.912
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.367 -5.811 -4.557
T123=16.2 18.1 20.1
ALT/AZ=80.2 109.4
fwAVG=4.46
sdW=15.8
fwW=4.41
sdS=15.2
fwS=4.51
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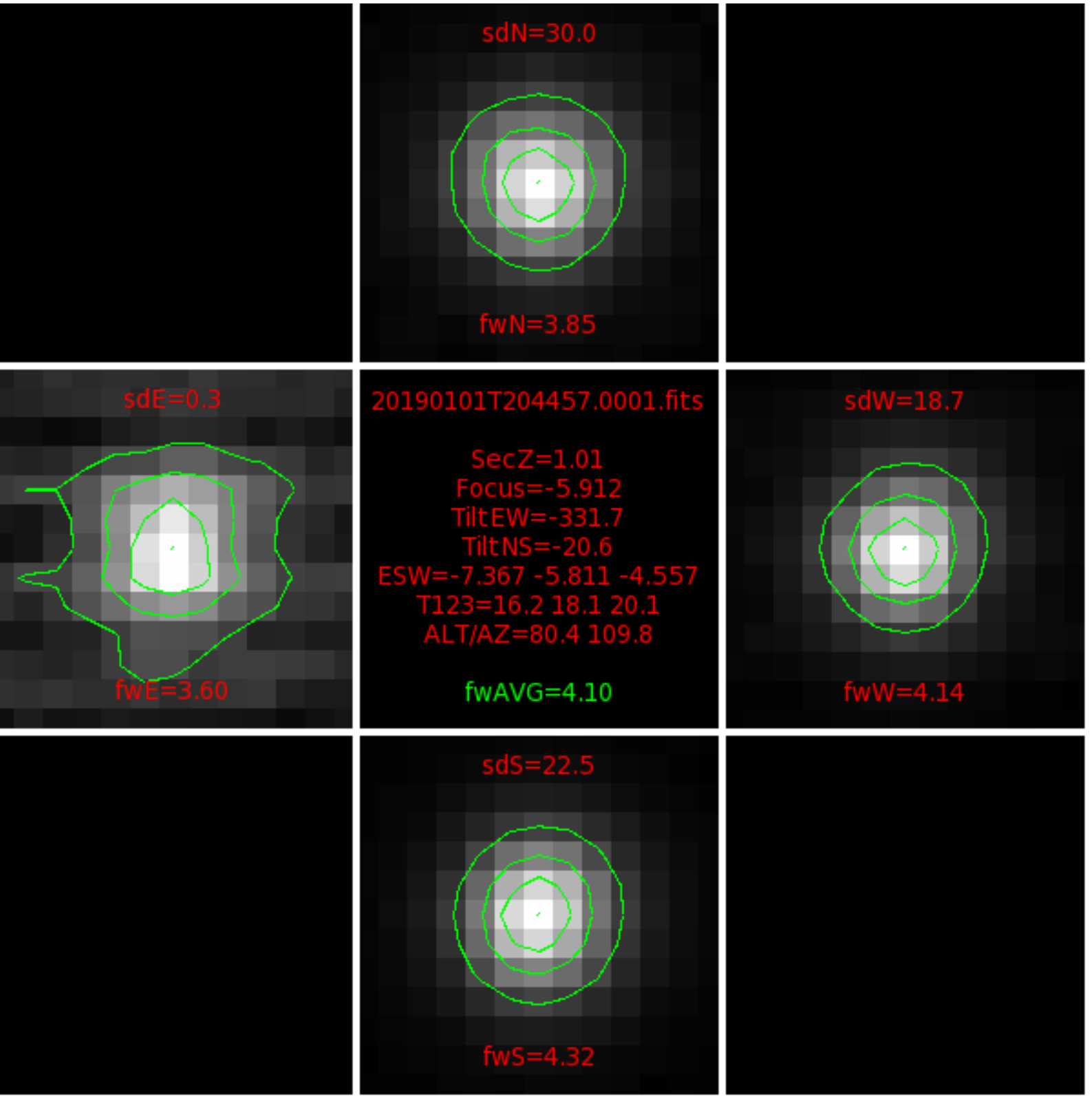
sdN=30.0
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sdE=0.3
fwE=3.60
20190101T204457.0001.fits
SecZ=1.01
Focus=-5.912
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.367 -5.811 -4.557
T123=16.2 18.1 20.1
ALT/AZ=80.4 109.8
fwAVG=4.10
sdW=18.7
fwW=4.14
sdS=22.5
fwS=4.32
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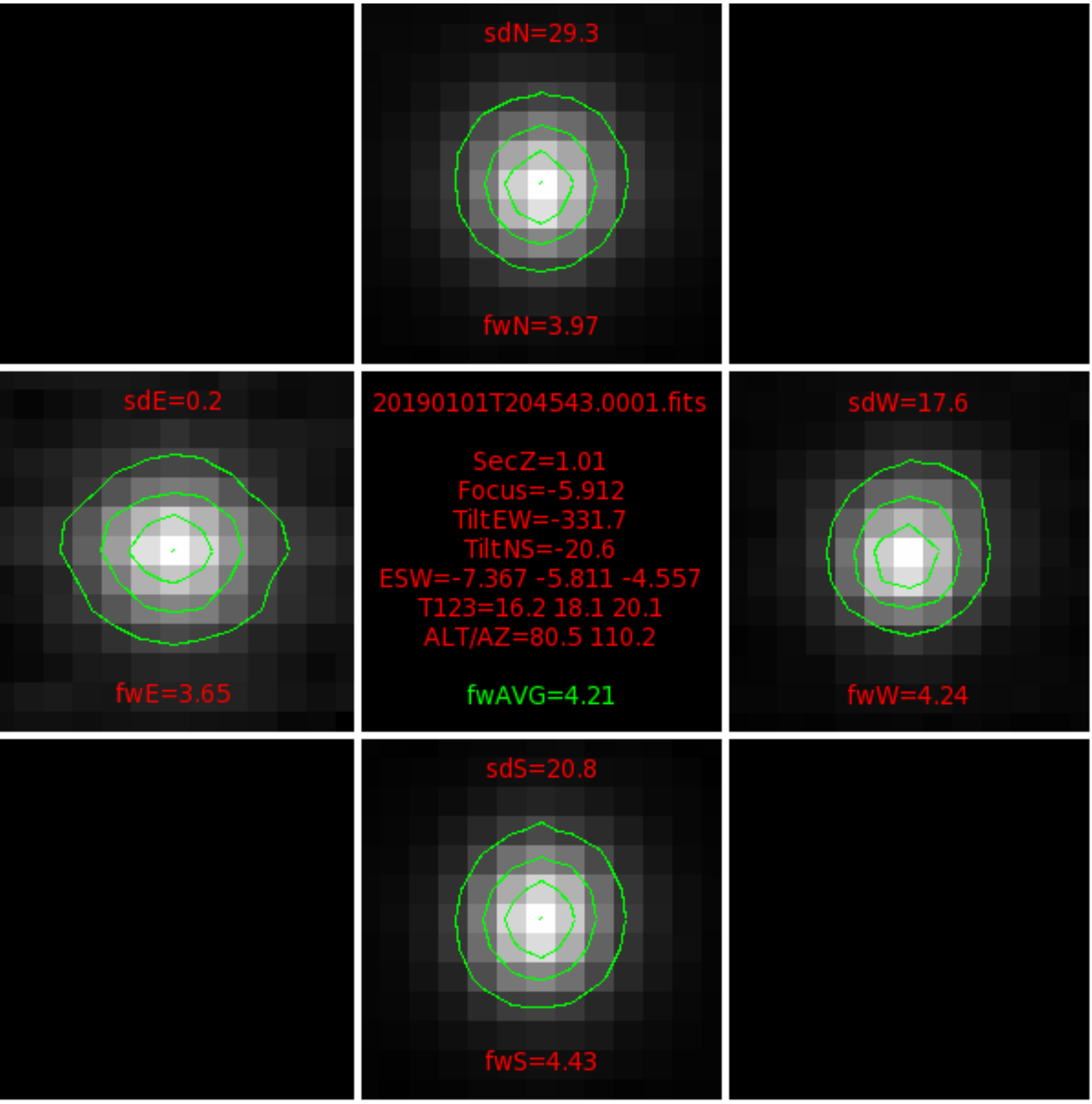
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fwN=3.97
sdE=0.2
fwE=3.65
20190101T204543.0001.fits
SecZ=1.01
Focus=-5.912
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.367 -5.811 -4.557
T123=16.2 18.1 20.1
ALT/AZ=80.5 110.2
fwAVG=4.21
sdW=17.6
fwW=4.24
sdS=20.8
fwS=4.43
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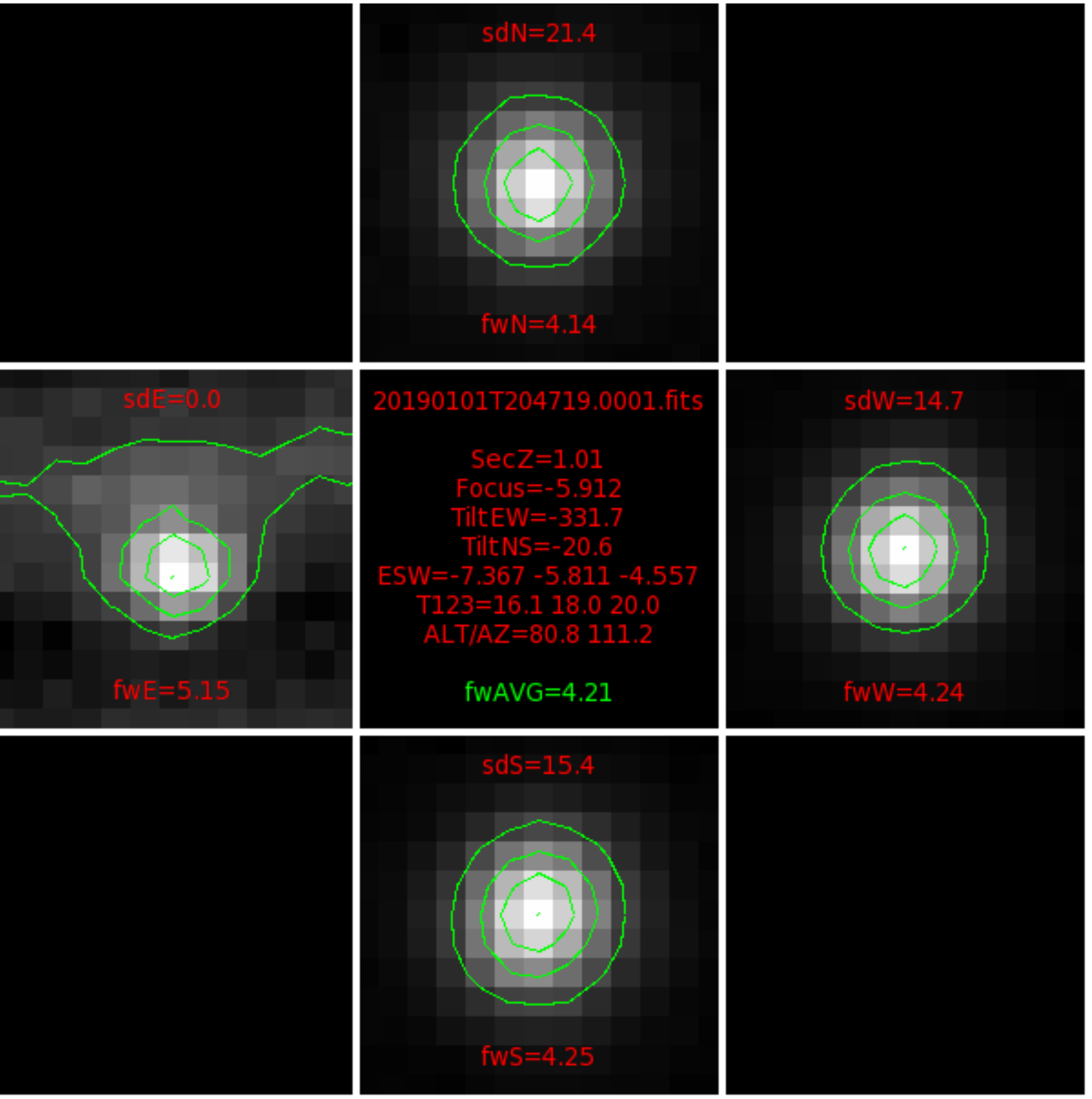
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fwN=4.14
sdE=0.0
fwE=5.15
20190101T204719.0001.fits
SecZ=1.01
Focus=-5.912
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.367 -5.811 -4.557
T123=16.1 18.0 20.0
ALT/AZ=80.8 111.2
fwAVG=4.21
sdW=14.7
fwW=4.24
sdS=15.4
fwS=4.25
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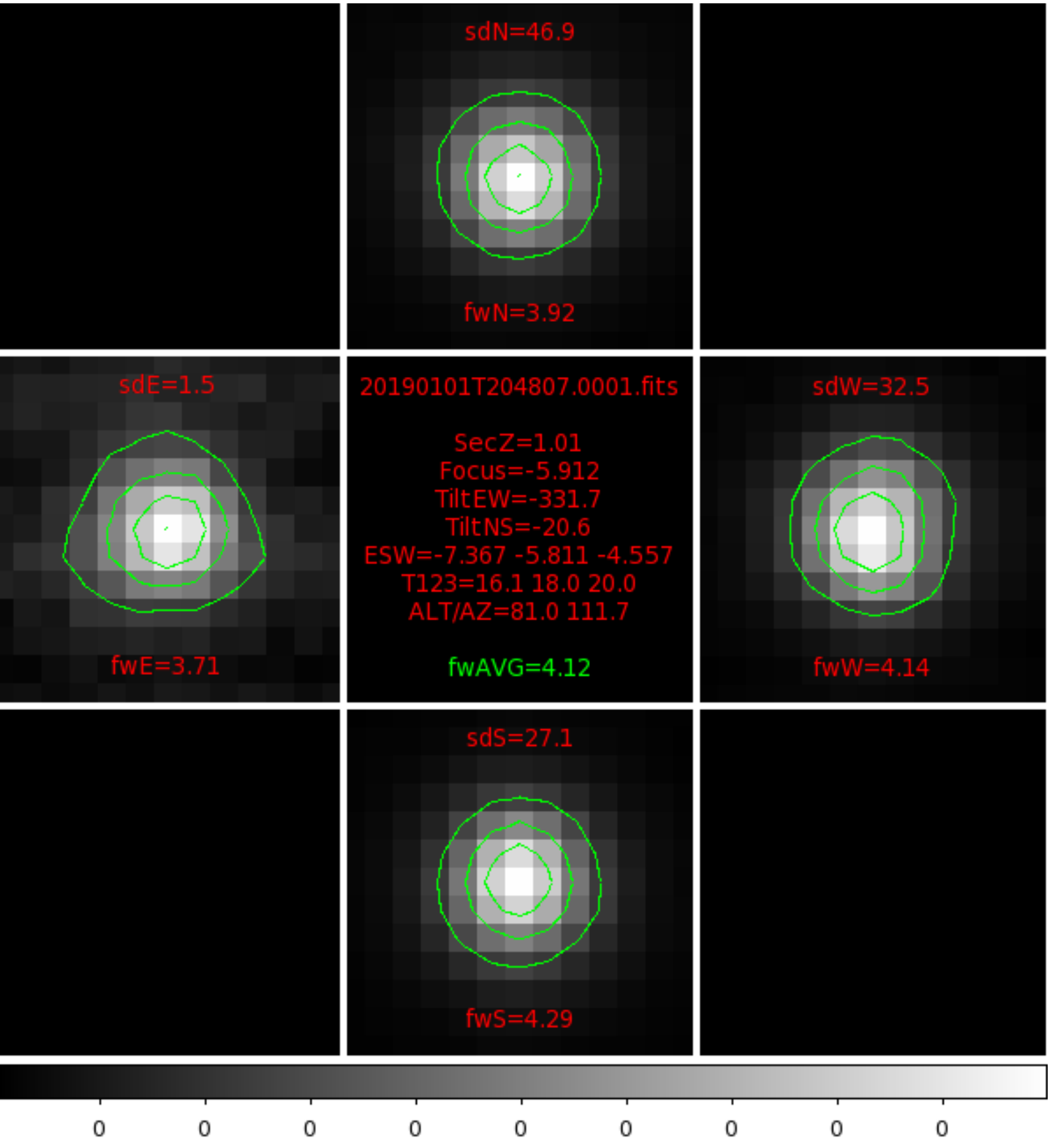
sdN=46.9
fwN=3.92
sdE=1.5
fwE=3.71
20190101T204807.0001.fits
SecZ=1.01
Focus=-5.912
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.367 -5.811 -4.557
T123=16.1 18.0 20.0
ALT/AZ=81.0 111.7
fwAVG=4.12
sdW=32.5
fwW=4.14
sdS=27.1
fwS=4.29
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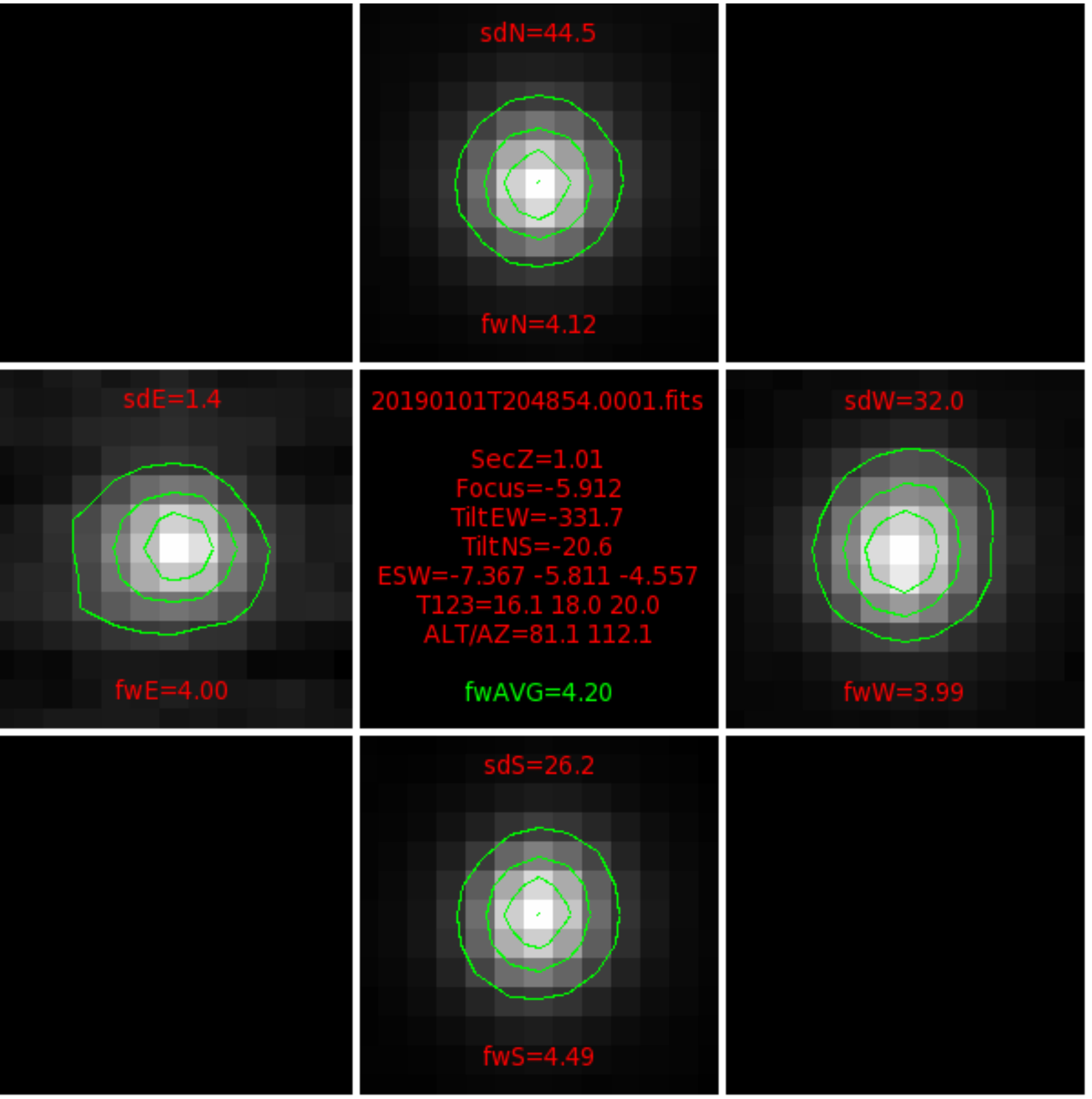
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sdE=1.4
fwE=4.00
20190101T204854.0001.fits
SecZ=1.01
Focus=-5.912
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.367 -5.811 -4.557
T123=16.1 18.0 20.0
ALT/AZ=81.1 112.1
fwAVG=4.20
sdW=32.0
fwW=3.99
sdS=26.2
fwS=4.49
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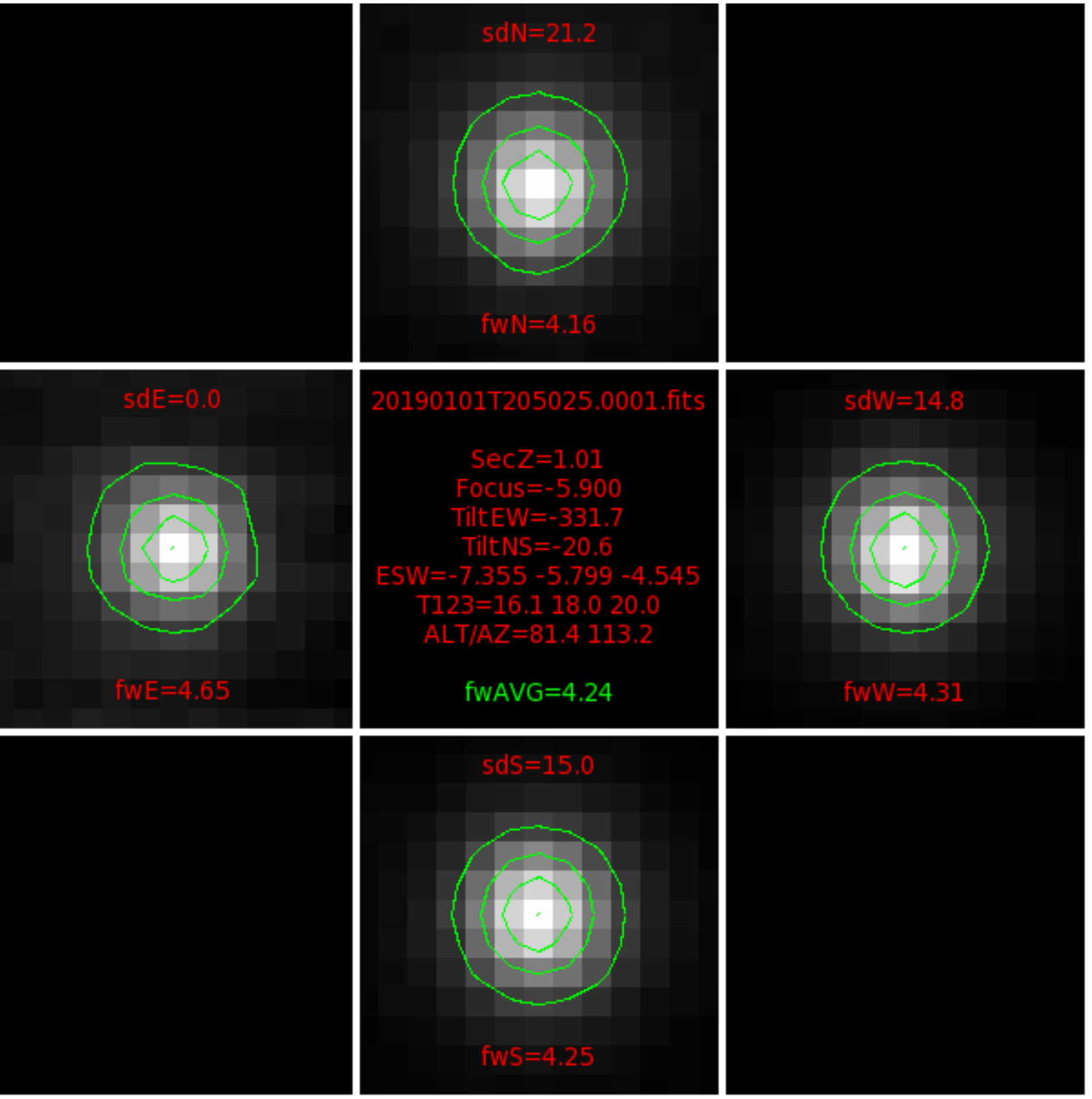
sdN=21.2
fwN=4.16
sdE=0.0
fwE=4.65
20190101T205025.0001.fits
SecZ=1.01
Focus=-5.900
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.355 -5.799 -4.545
T123=16.1 18.0 20.0
ALT/AZ=81.4 113.2
fwAVG=4.24
sdW=14.8
fwW=4.31
sdS=15.0
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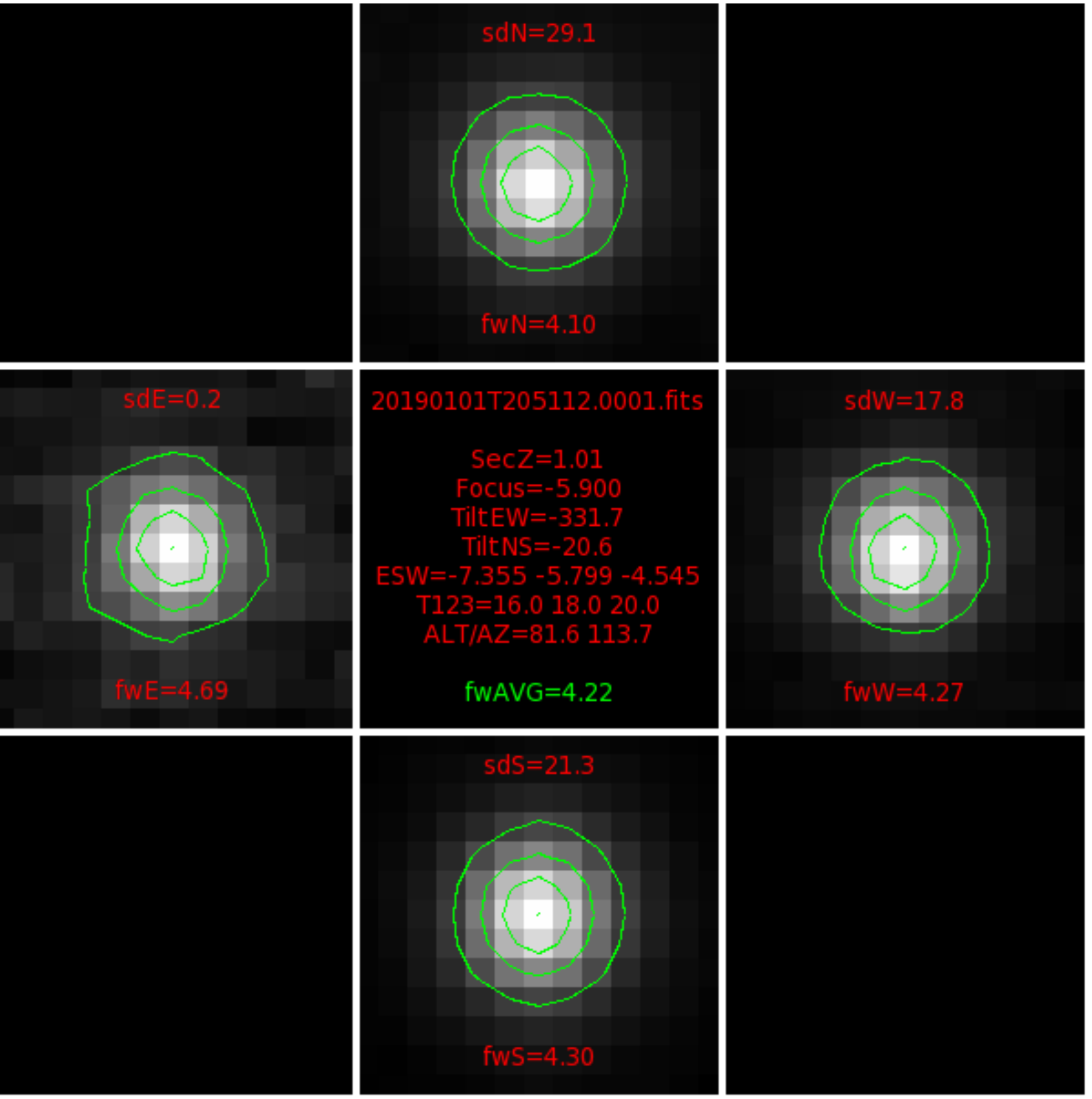
sdN=29.1
fwN=4.10
sdE=0.2
fwE=4.69
20190101T205112.0001.fits
SecZ=1.01
Focus=-5.900
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.355 -5.799 -4.545
T123=16.0 18.0 20.0
ALT/AZ=81.6 113.7
fwAVG=4.22
sdW=17.8
fwW=4.27
sdS=21.3
fwS=4.30
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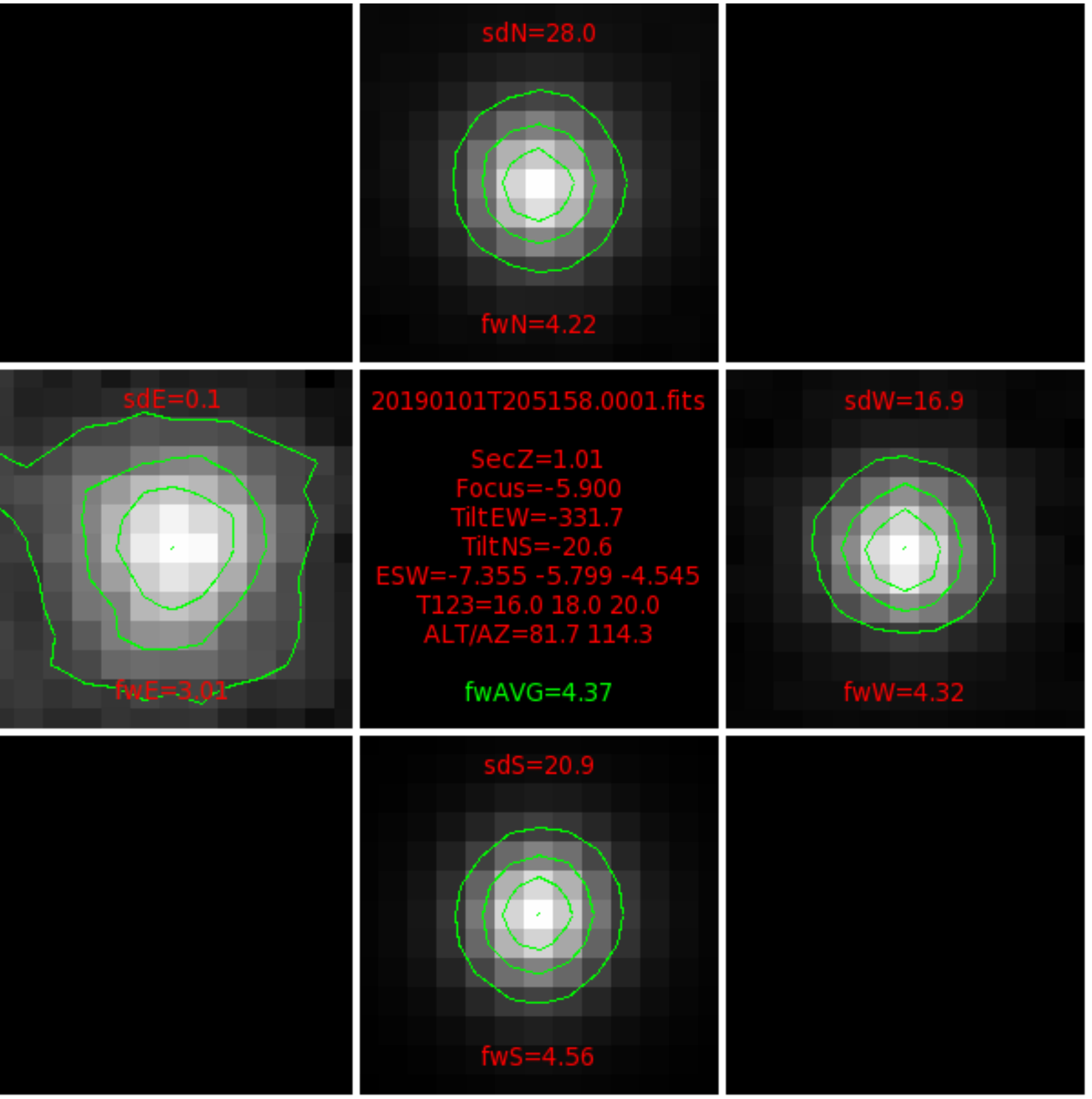
sdN=28.0
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sdE=0.1
fwE=3.01
20190101T205158.0001.fits
SecZ=1.01
Focus=-5.900
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.355 -5.799 -4.545
T123=16.0 18.0 20.0
ALT/AZ=81.7 114.3
fwAVG=4.37
sdW=16.9
fwW=4.32
sdS=20.9
fwS=4.56
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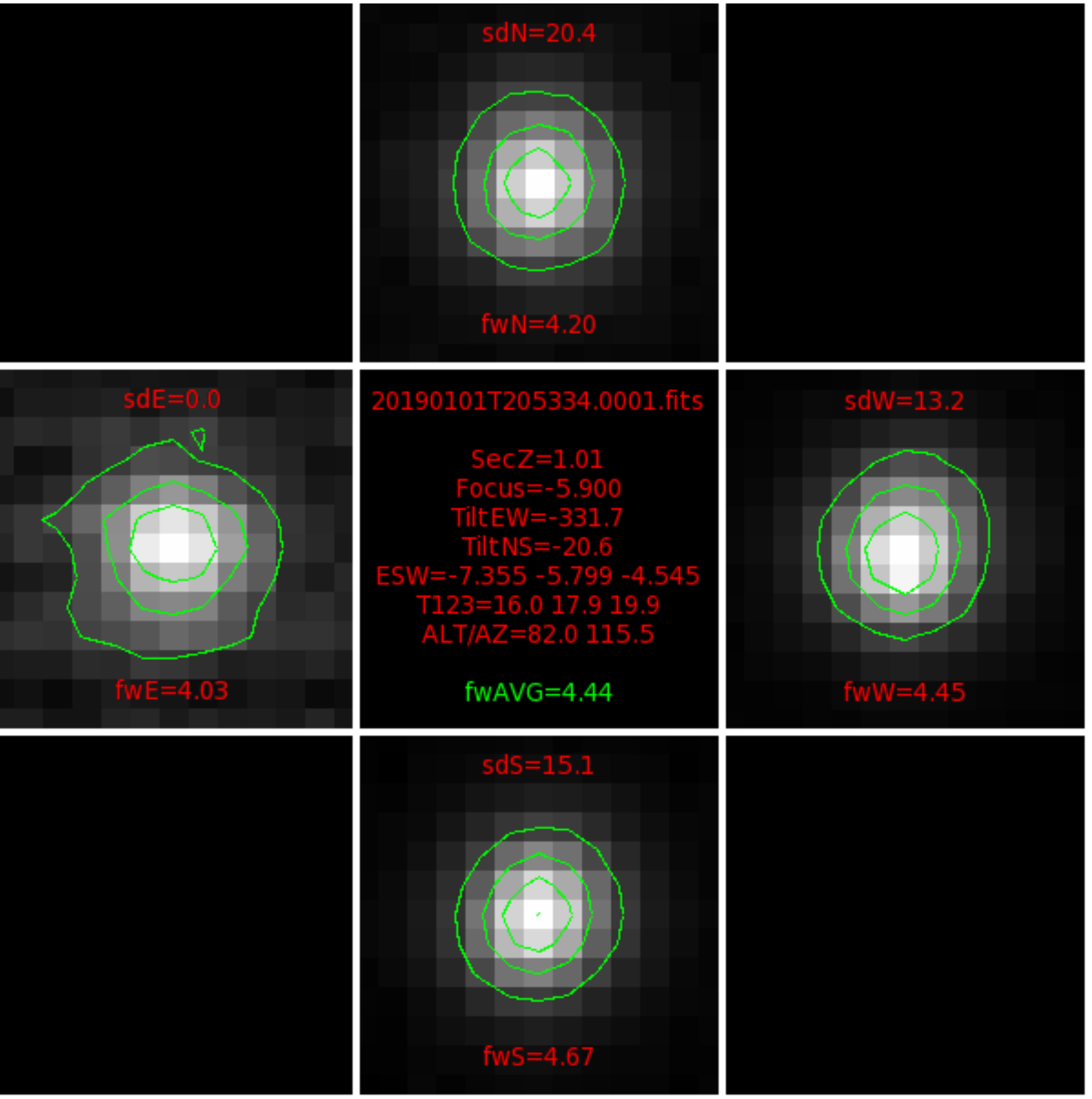
sdN=20.4
fwN=4.20
sdE=0.0
fwE=4.03
20190101T205334.0001.fits
SecZ=1.01
Focus=-5.900
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.355 -5.799 -4.545
T123=16.0 17.9 19.9
ALT/AZ=82.0 115.5
fwAVG=4.44
sdW=13.2
fwW=4.45
sdS=15.1
fwS=4.67
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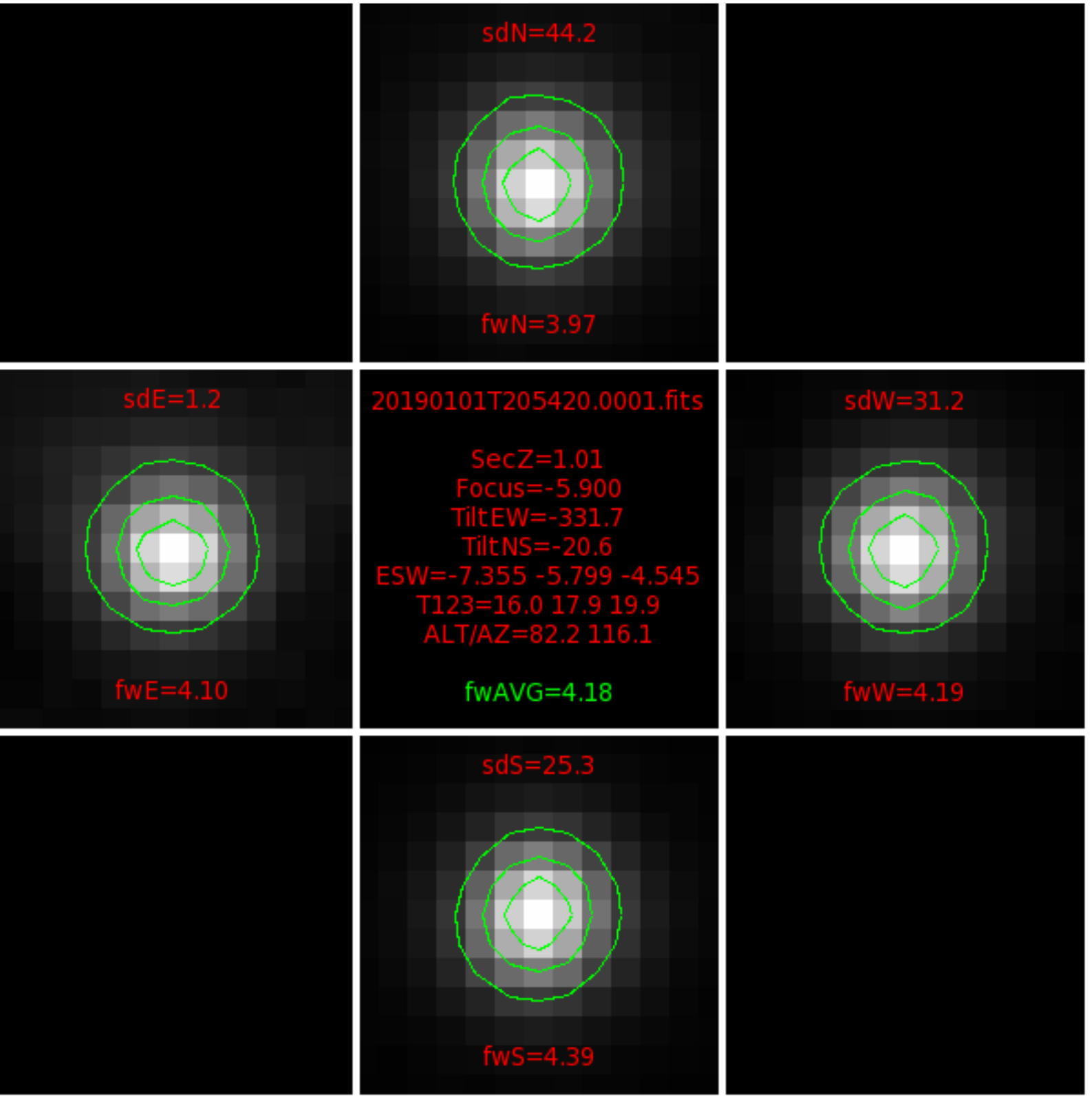
sdN=44.2
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sdE=1.2
fwE=4.10
20190101T205420.0001.fits
SecZ=1.01
Focus=-5.900
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.355 -5.799 -4.545
T123=16.0 17.9 19.9
ALT/AZ=82.2 116.1
fwAVG=4.18
sdW=31.2
fwW=4.19
sdS=25.3
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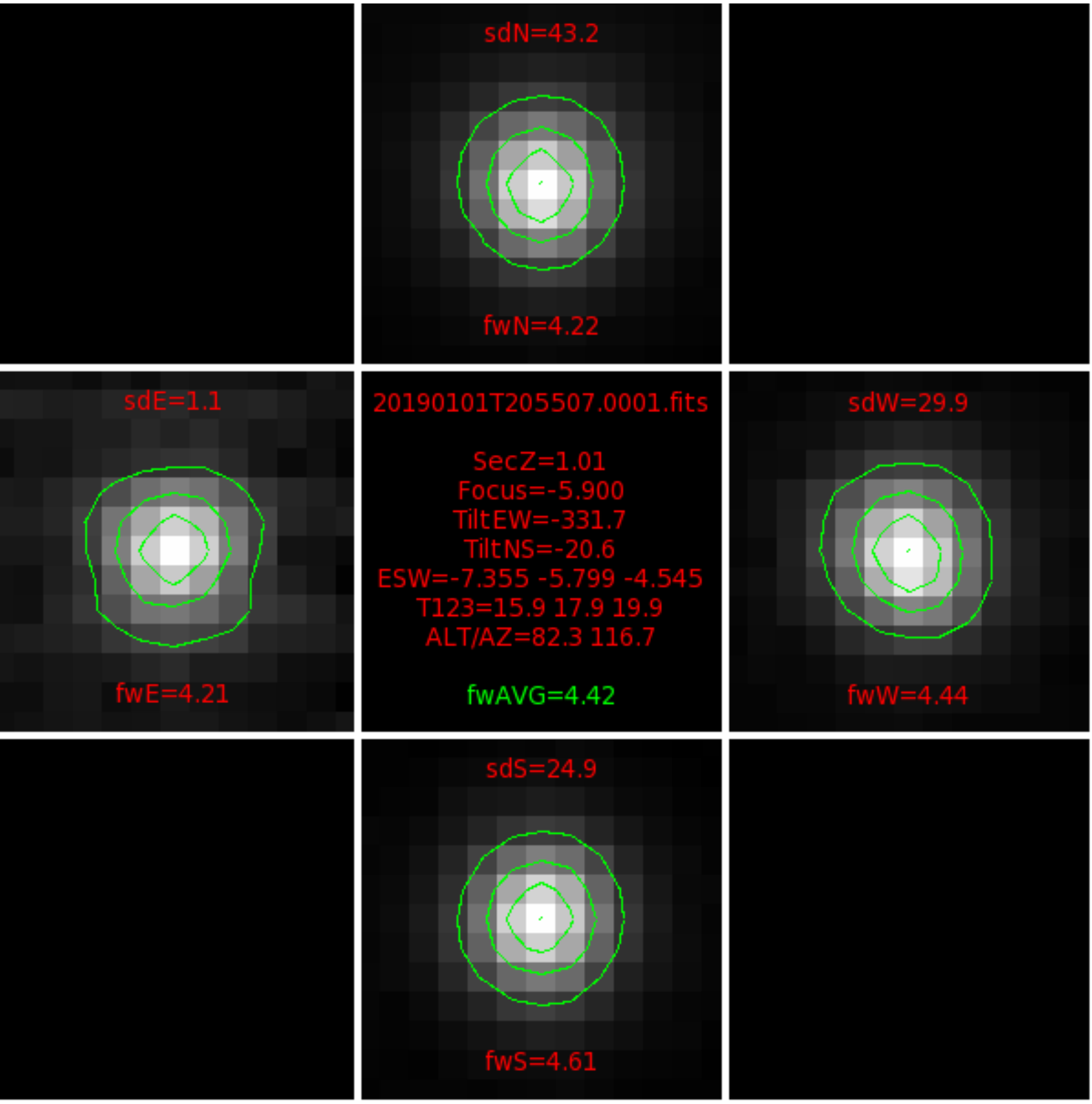
sdN=43.2
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sdE=1.1
fwE=4.21
20190101T205507.0001.fits
SecZ=1.01
Focus=-5.900
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.355 -5.799 -4.545
T123=15.9 17.9 19.9
ALT/AZ=82.3 116.7
fwAVG=4.42
sdW=29.9
fwW=4.44
sdS=24.9
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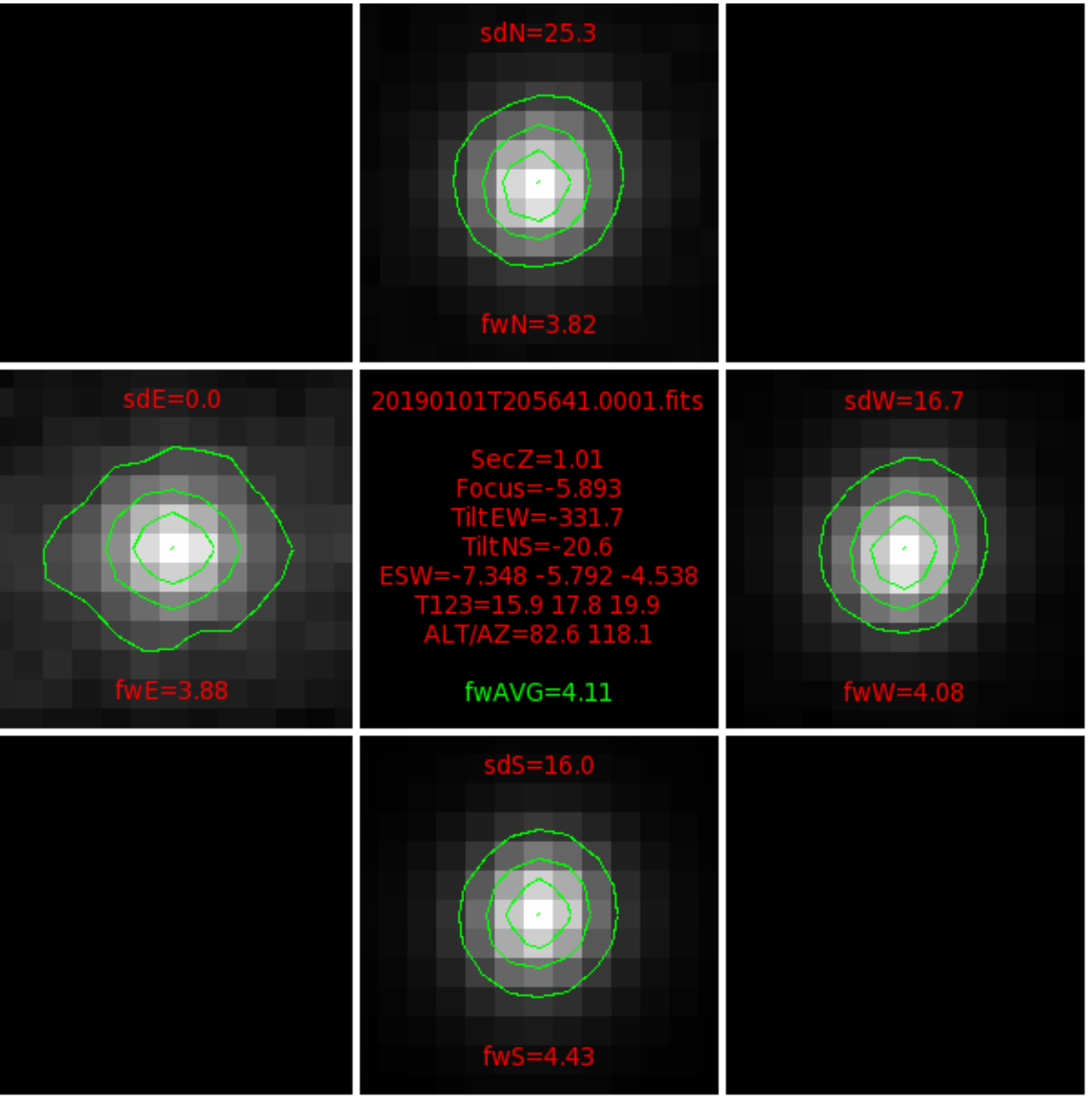
sdN=25.3
fwN=3.82
sdE=0.0
fwE=3.88
20190101T205641.0001.fits
SecZ=1.01
Focus=-5.893
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.348 -5.792 -4.538
T123=15.9 17.8 19.9
ALT/AZ=82.6 118.1
fwAVG=4.11
sdW=16.7
fwW=4.08
sdS=16.0
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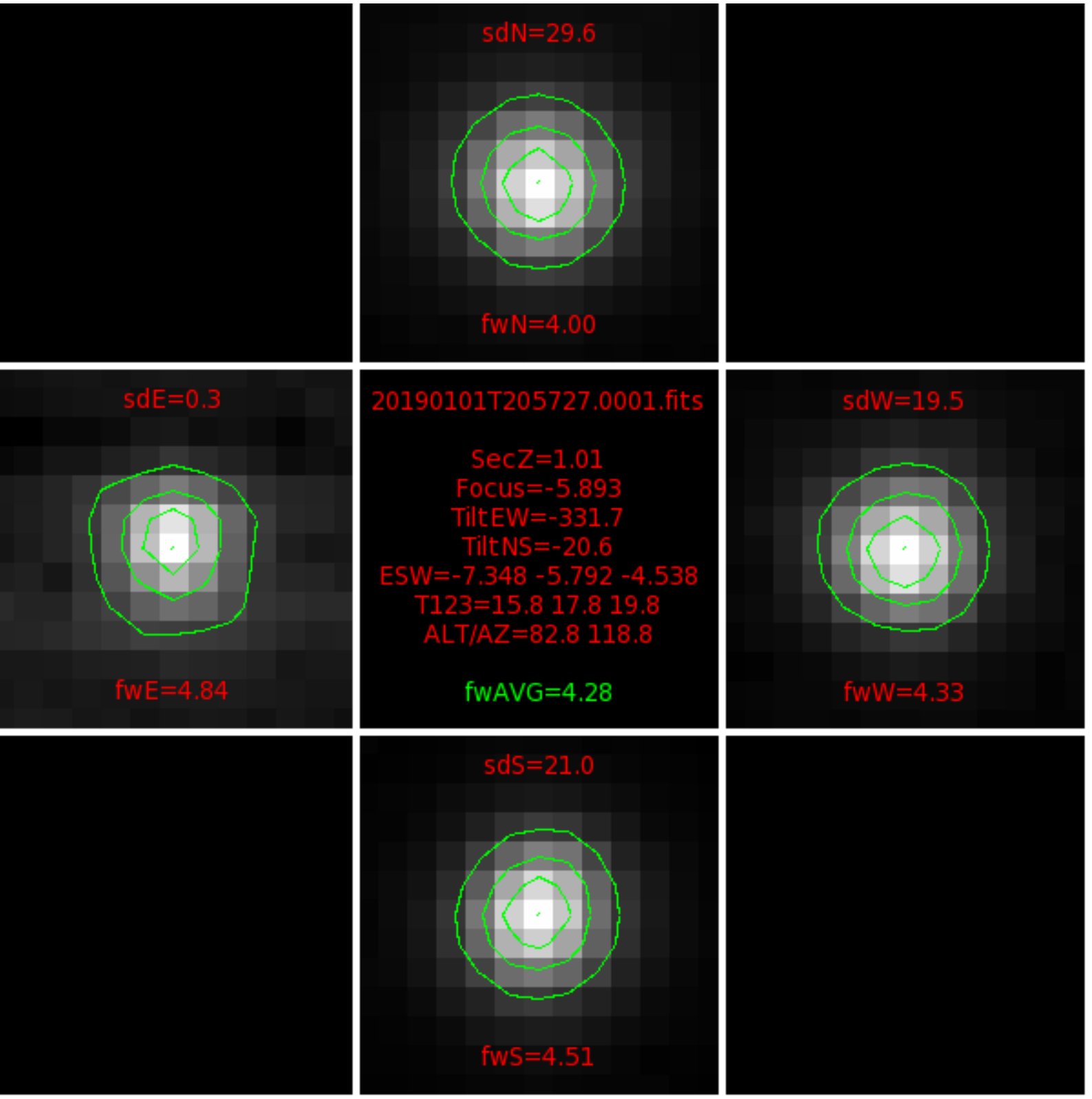
sdN=29.6
fwN=4.00
sdE=0.3
fwE=4.84
20190101T205727.0001.fits
SecZ=1.01
Focus=-5.893
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.348 -5.792 -4.538
T123=15.8 17.8 19.8
ALT/AZ=82.8 118.8
fwAVG=4.28
sdW=19.5
fwW=4.33
sdS=21.0
fwS=4.51
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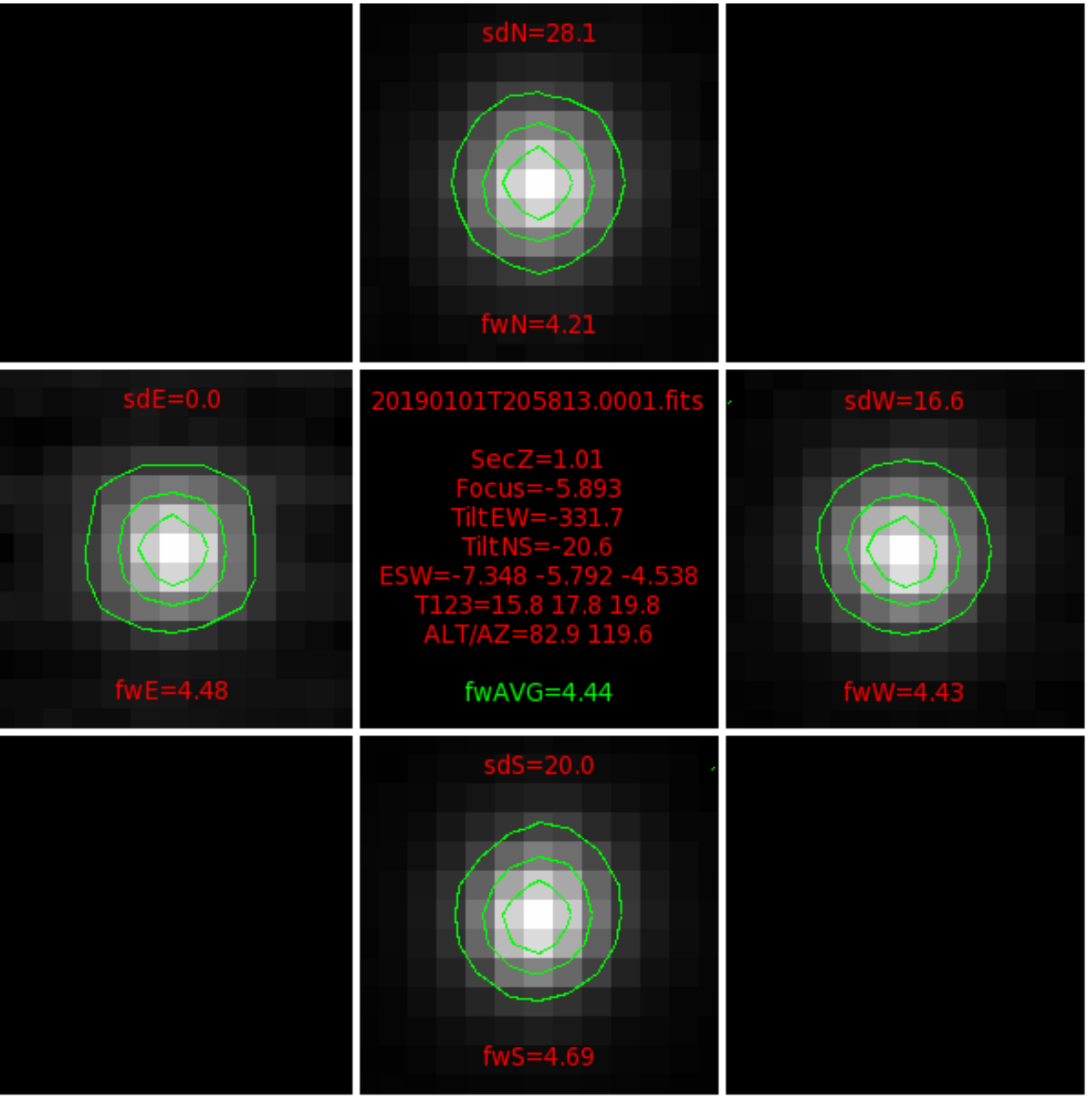
sdN=28.1
fwN=4.21
sdE=0.0
fwE=4.48
20190101T205813.0001.fits
SecZ=1.01
Focus=-5.893
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.348 -5.792 -4.538
T123=15.8 17.8 19.8
ALT/AZ=82.9 119.6
fwAVG=4.44
sdW=16.6
fwW=4.43
sdS=20.0
fwS=4.69
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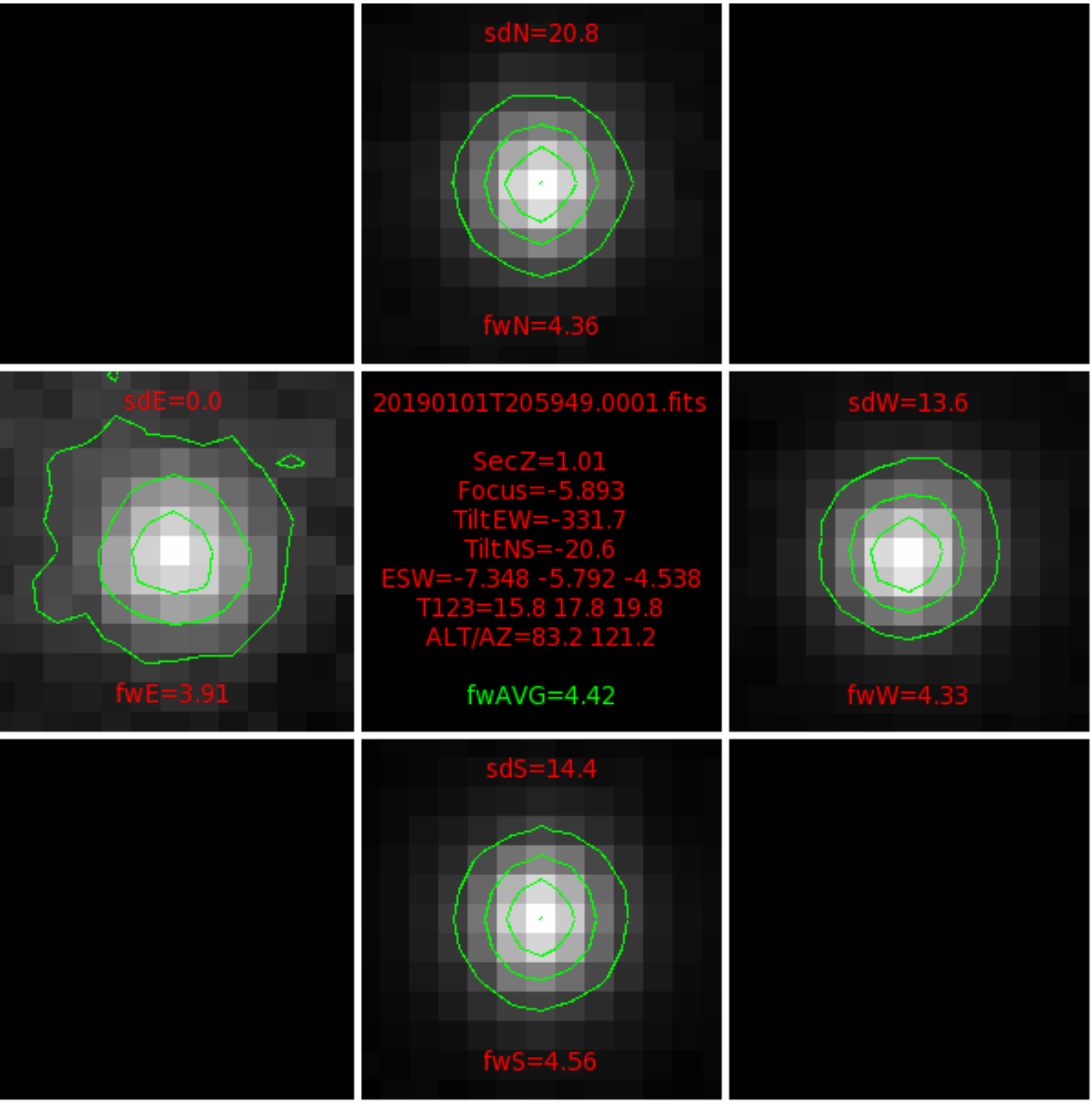
sdN=20.8
fwN=4.36
sdE=0.0
fwE=3.91
20190101T205949.0001.fits
SecZ=1.01
Focus=-5.893
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.348 -5.792 -4.538
T123=15.8 17.8 19.8
ALT/AZ=83.2 121.2
fwAVG=4.42
sdW=13.6
fwW=4.33
sdS=14.4
fwS=4.56
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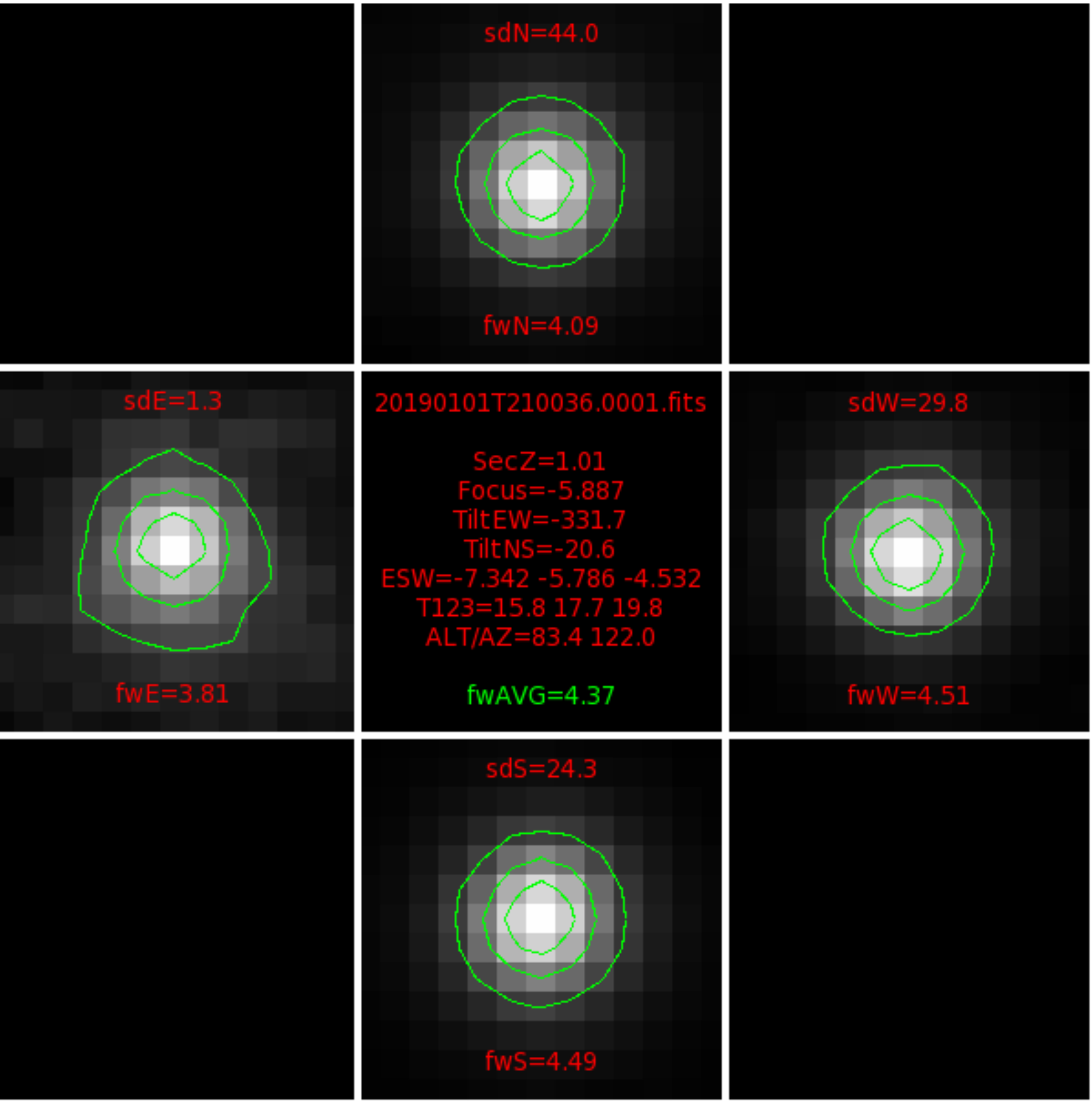
sdN=44.0
fwN=4.09
sdE=1.3
fwE=3.81
20190101T210036.0001.fits
SecZ=1.01
Focus=-5.887
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.342 -5.786 -4.532
T123=15.8 17.7 19.8
ALT/AZ=83.4 122.0
fwAVG=4.37
sdW=29.8
fwW=4.51
sdS=24.3
fwS=4.49
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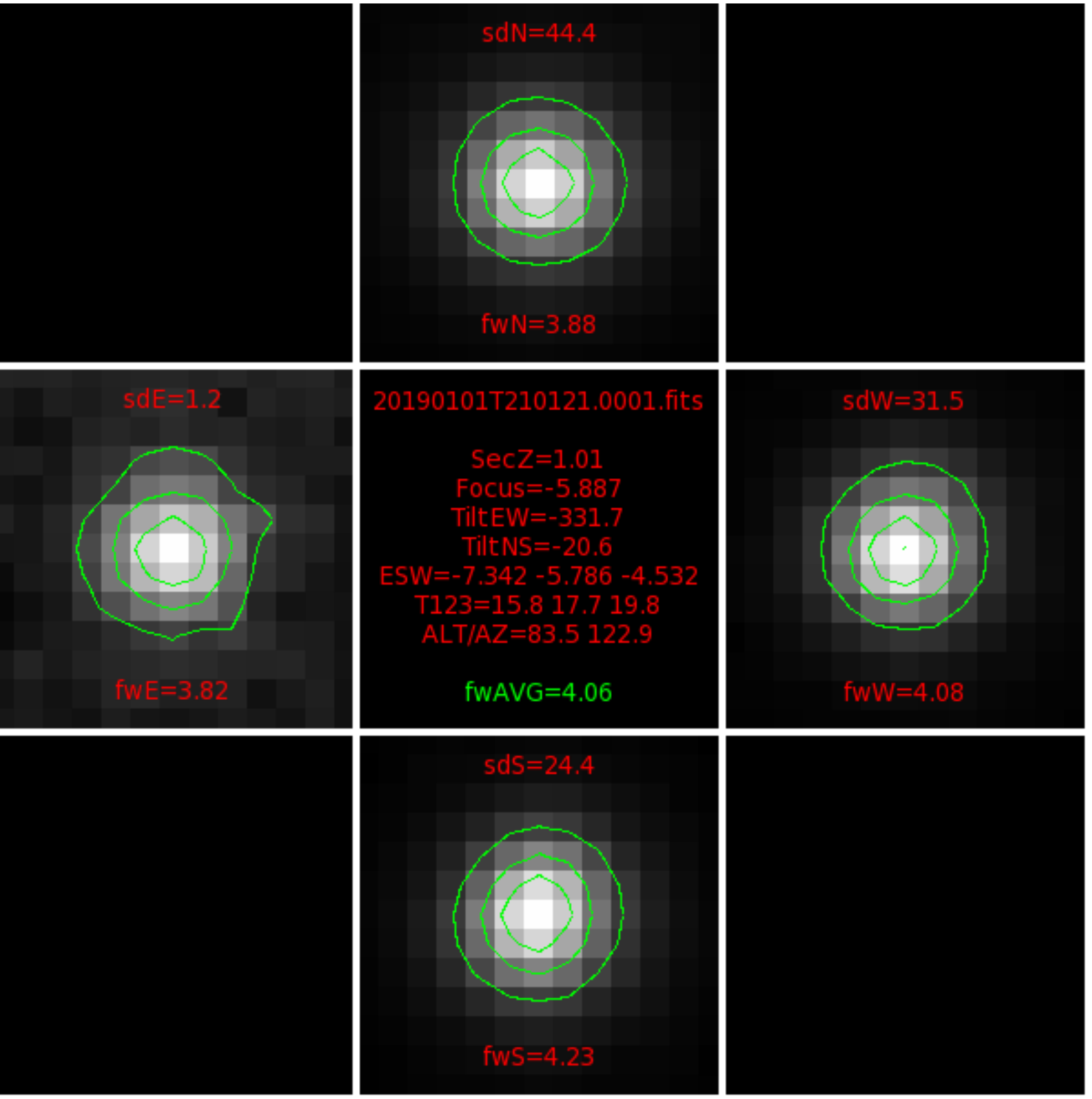
sdN=44.4
fwN=3.88
sdE=1.2
fwE=3.82
20190101T210121.0001.fits
SecZ=1.01
Focus=-5.887
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.342 -5.786 -4.532
T123=15.8 17.7 19.8
ALT/AZ=83.5 122.9
fwAVG=4.06
sdW=31.5
fwW=4.08
sdS=24.4
fwS=4.23
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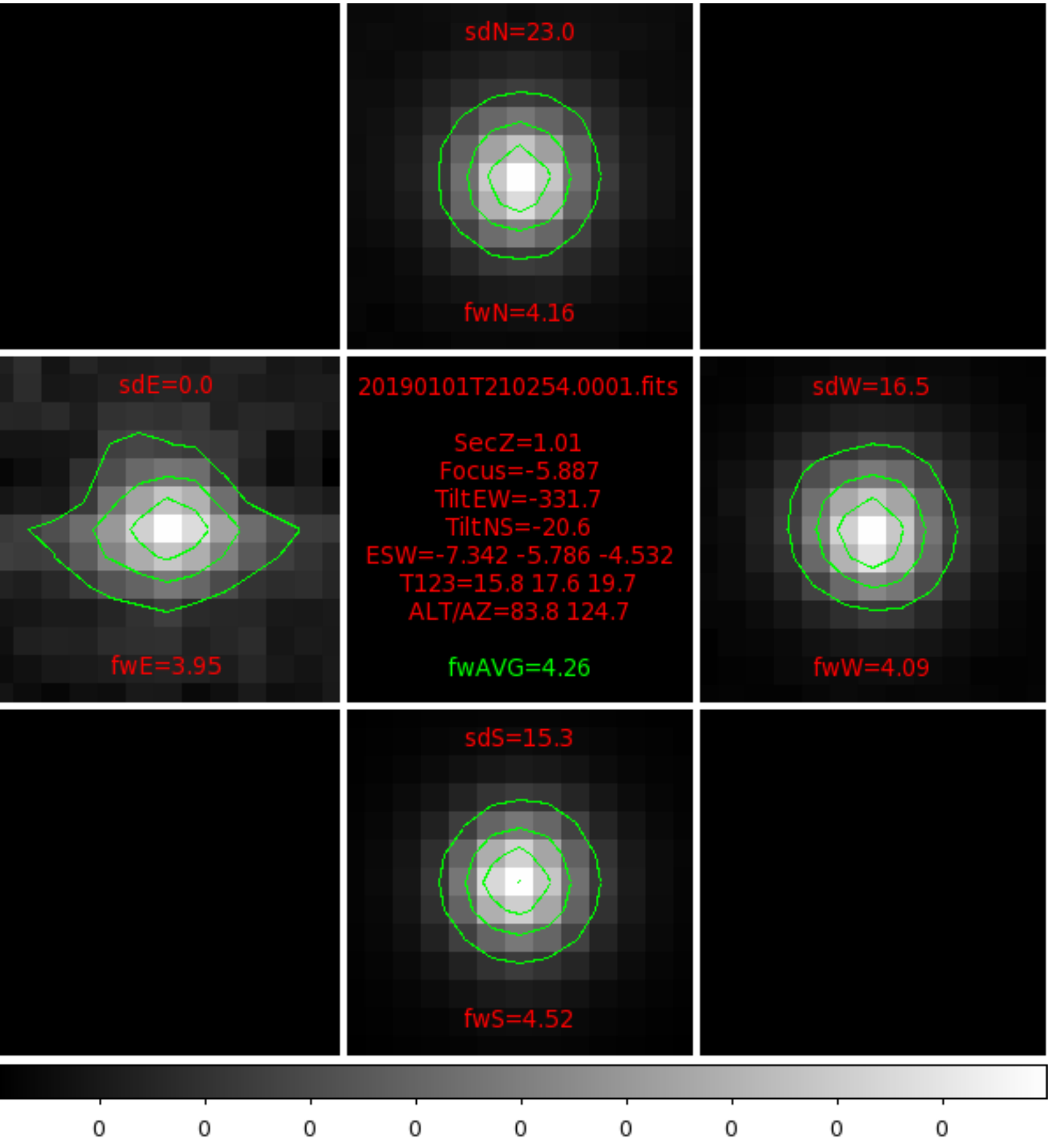
sdN=23.0
fwN=4.16
sdE=0.0
fwE=3.95
20190101T210254.0001.fits
SecZ=1.01
Focus=-5.887
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.342 -5.786 -4.532
T123=15.8 17.6 19.7
ALT/AZ=83.8 124.7
fwAVG=4.26
sdW=16.5
fwW=4.09
sdS=15.3
fwS=4.52
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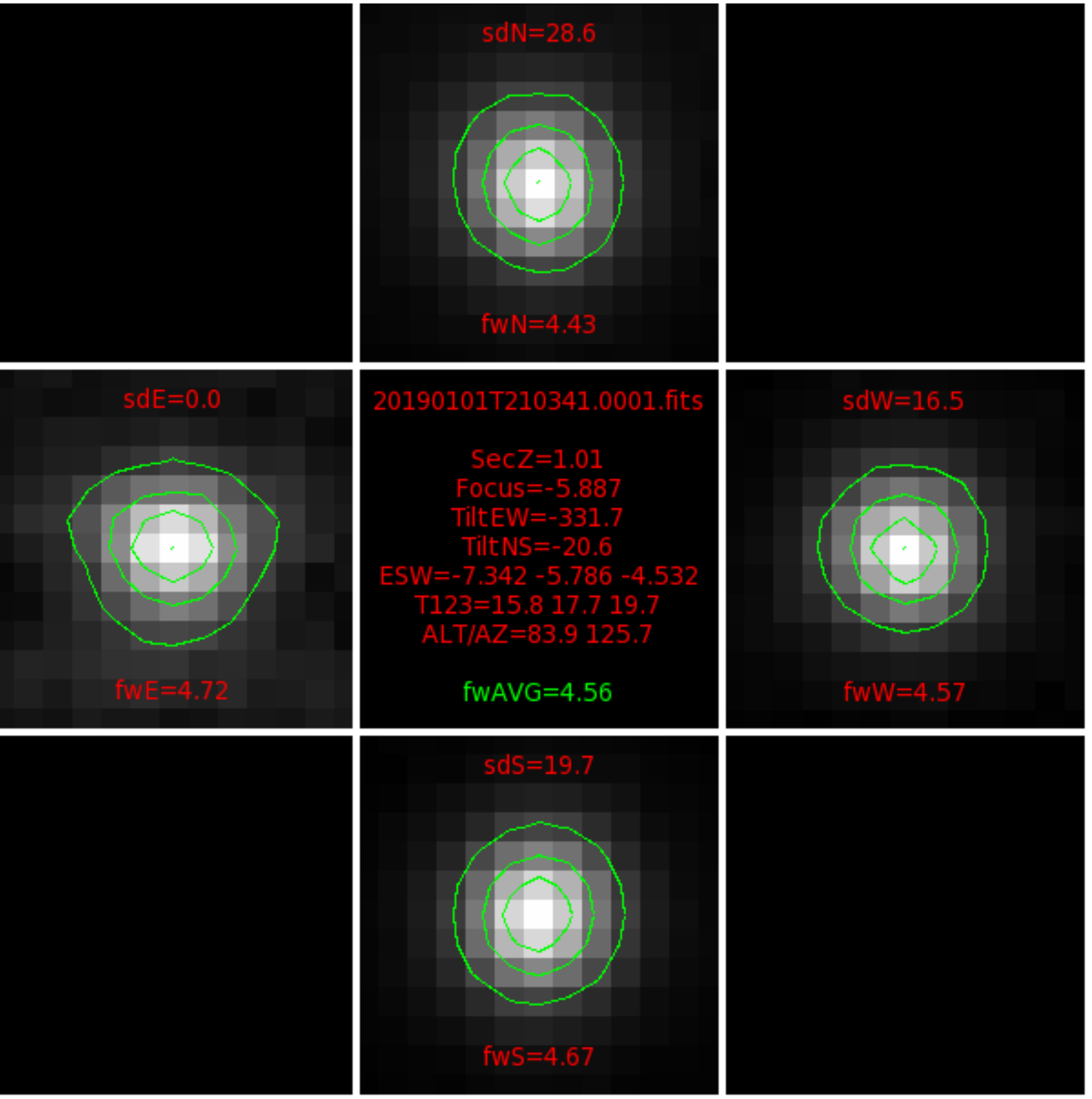
sdN=28.6
fwN=4.43
sdE=0.0
fwE=4.72
20190101T210341.0001.fits
SecZ=1.01
Focus=-5.887
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.342 -5.786 -4.532
T123=15.8 17.7 19.7
ALT/AZ=83.9 125.7
fwAVG=4.56
sdW=16.5
fwW=4.57
sdS=19.7
fwS=4.67
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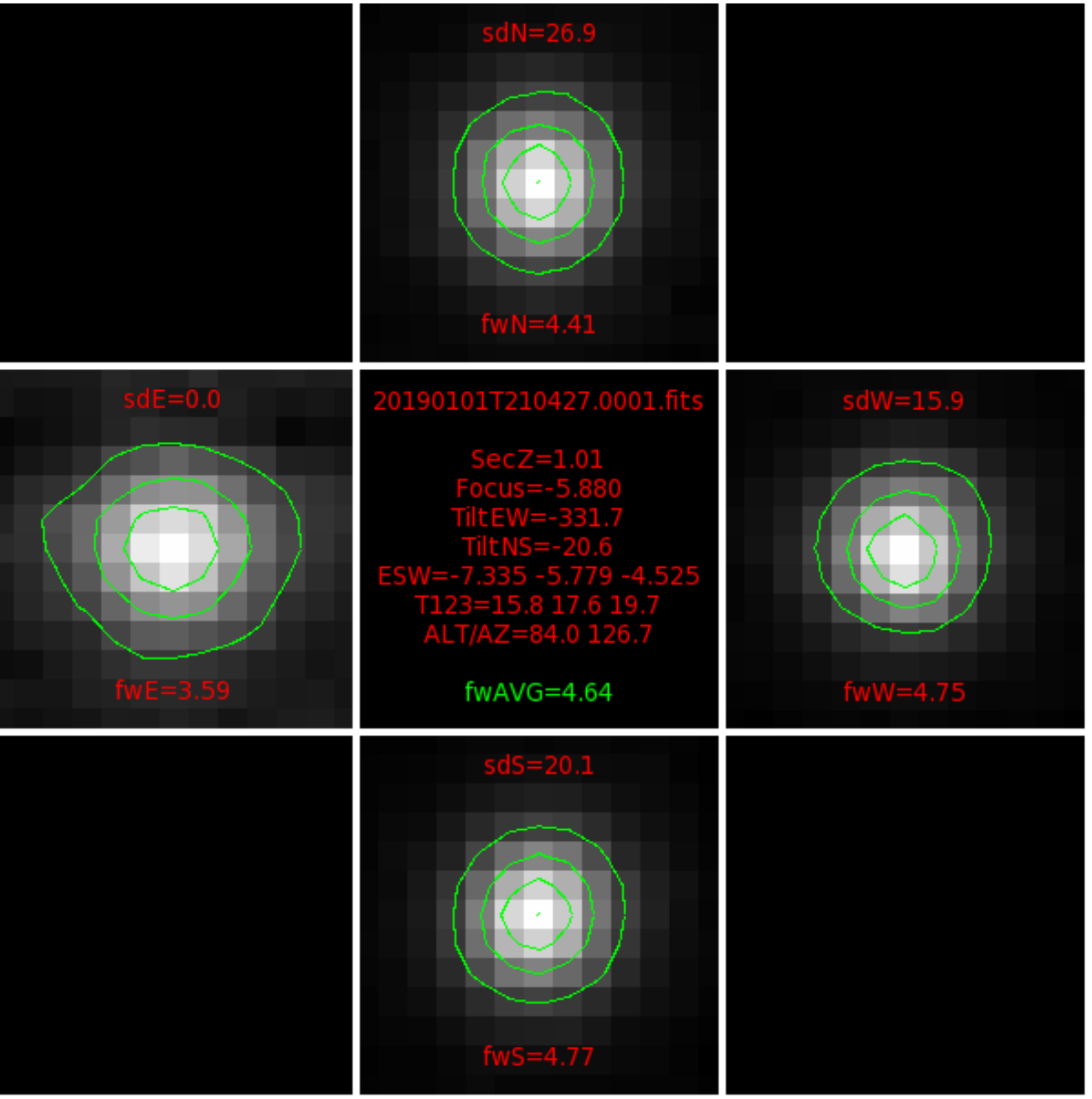
sdN=26.9
fwN=4.41
sdE=0.0
fwE=3.59
20190101T210427.0001.fits
SecZ=1.01
Focus=-5.880
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.335 -5.779 -4.525
T123=15.8 17.6 19.7
ALT/AZ=84.0 126.7
fwAVG=4.64
sdW=15.9
fwW=4.75
sdS=20.1
fwS=4.77
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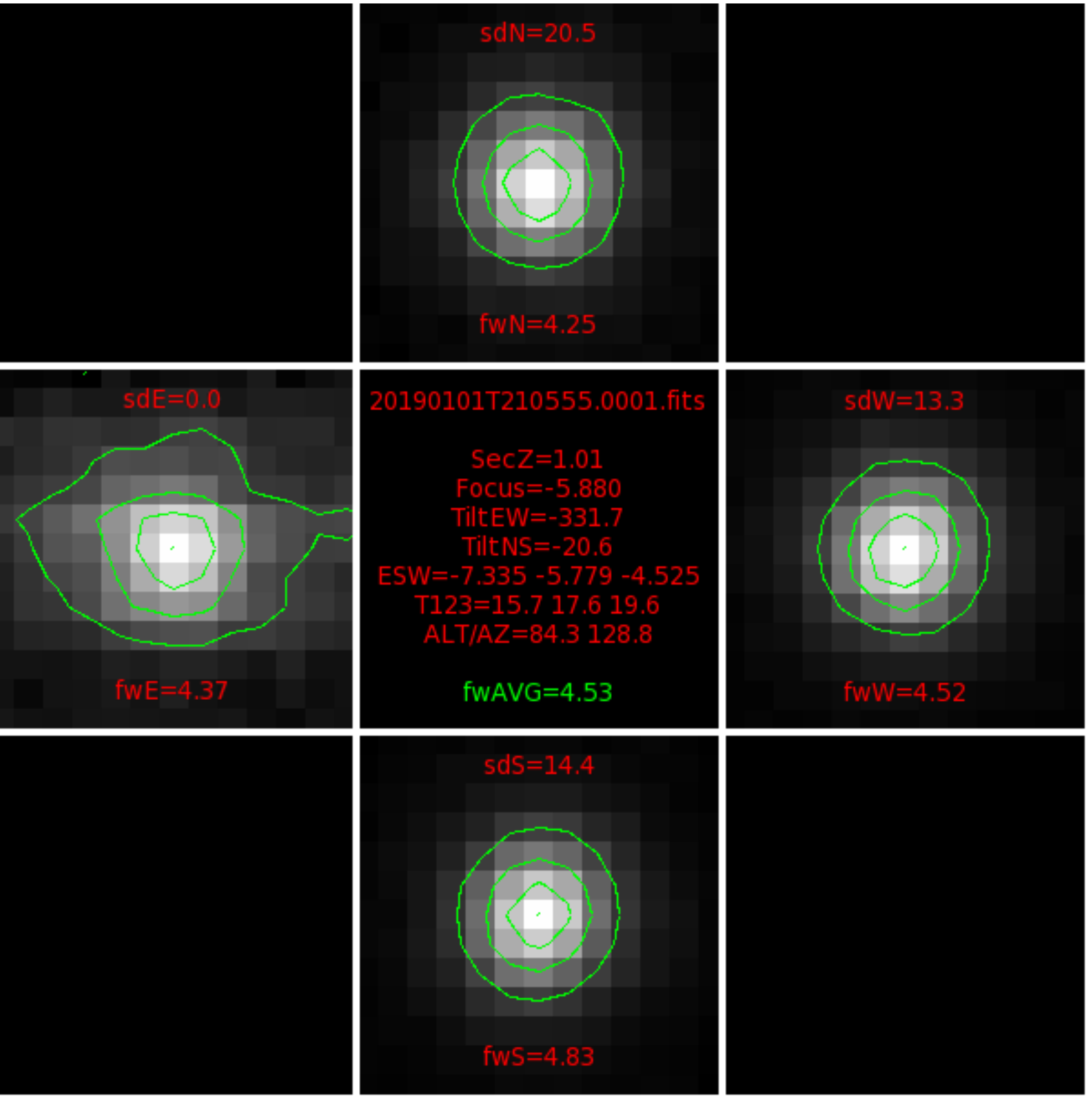
sdN=20.5
fwN=4.25
sdE=0.0
fwE=4.37
20190101T210555.0001.fits
SecZ=1.01
Focus=-5.880
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.335 -5.779 -4.525
T123=15.7 17.6 19.6
ALT/AZ=84.3 128.8
fwAVG=4.53
sdW=13.3
fwW=4.52
sdS=14.4
fwS=4.83
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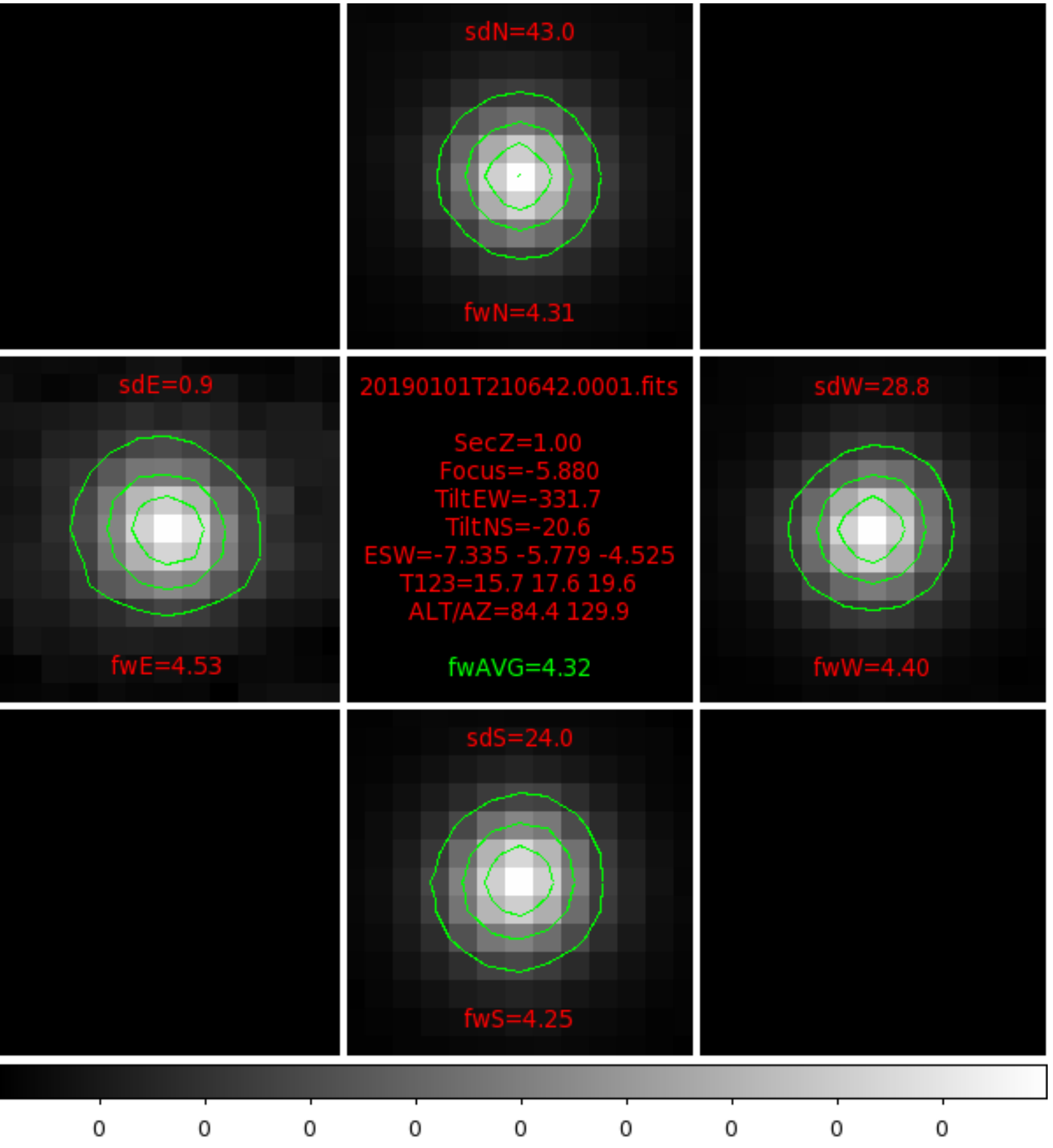
sdN=43.0
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sdE=0.9
fwE=4.53
20190101T210642.0001.fits
SecZ=1.00
Focus=-5.880
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.335 -5.779 -4.525
T123=15.7 17.6 19.6
ALT/AZ=84.4 129.9
fwAVG=4.32
sdW=28.8
fwW=4.40
sdS=24.0
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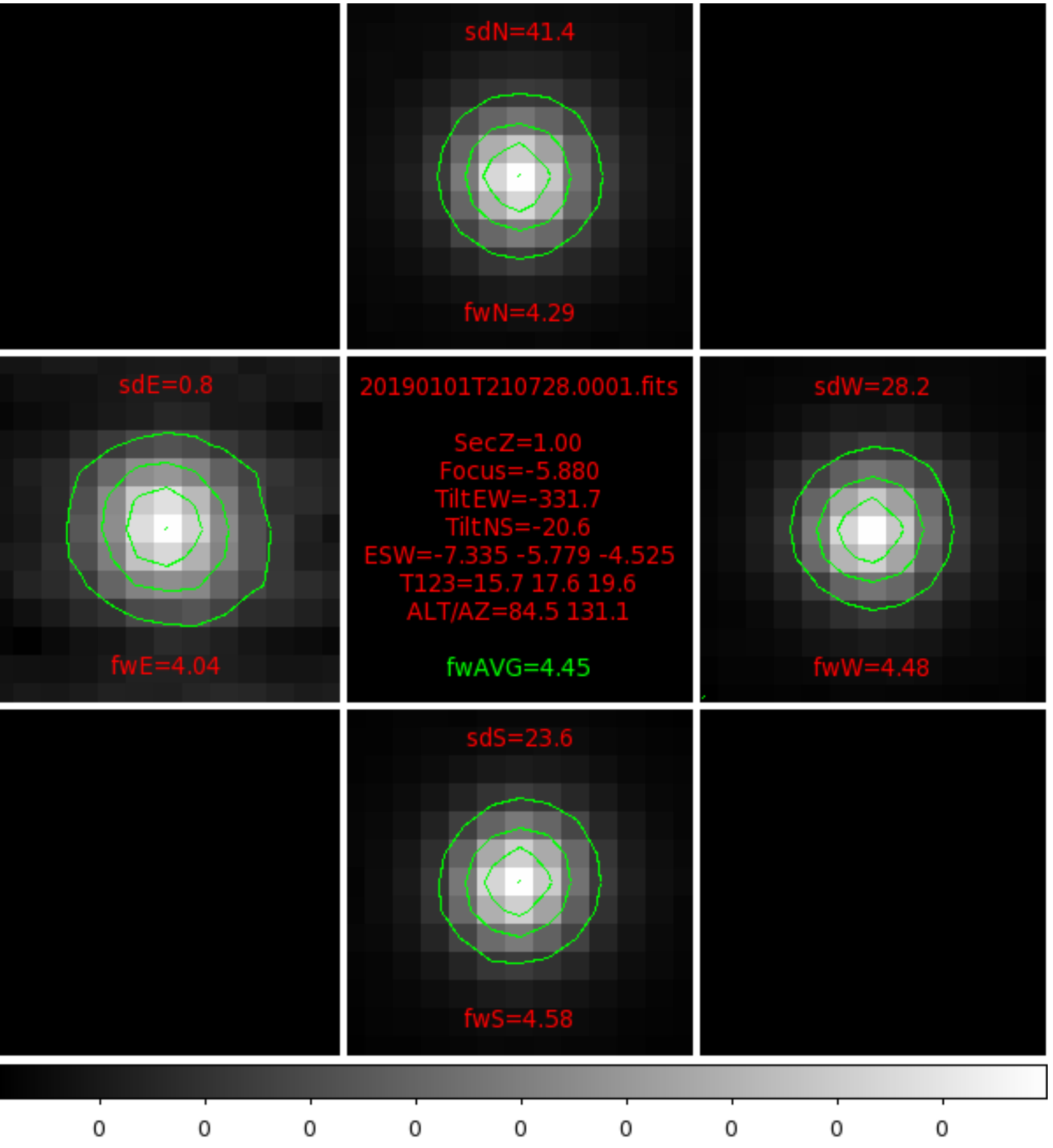
sdN=41.4
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sdE=0.8
fwE=4.04
20190101T210728.0001.fits
SecZ=1.00
Focus=-5.880
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.335 -5.779 -4.525
T123=15.7 17.6 19.6
ALT/AZ=84.5 131.1
fwAVG=4.45
sdW=28.2
fwW=4.48
sdS=23.6
fwS=4.58
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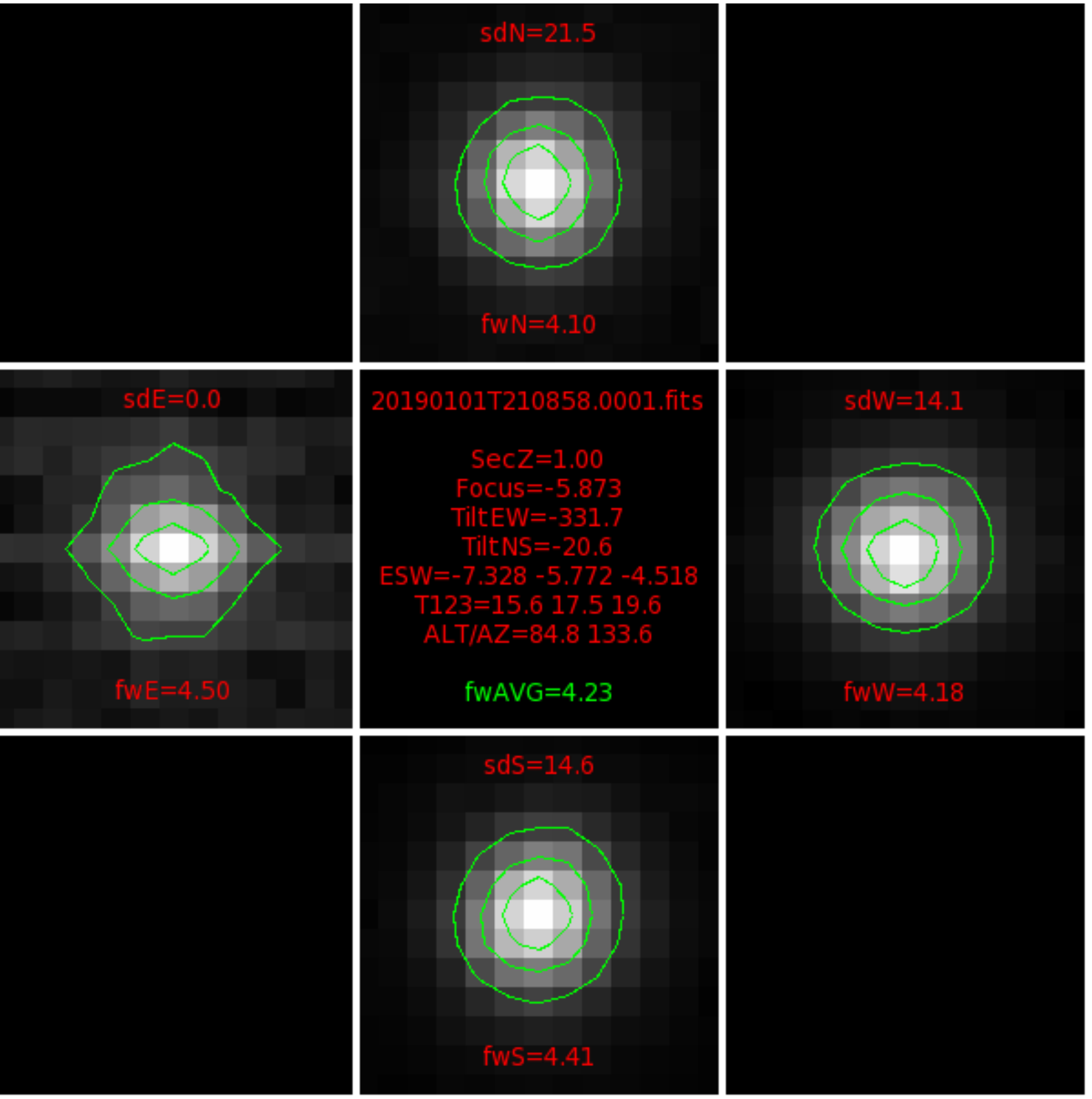
sdN=21.5
fwN=4.10
sdE=0.0
fwE=4.50
20190101T210858.0001.fits
SecZ=1.00
Focus=-5.873
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.328 -5.772 -4.518
T123=15.6 17.5 19.6
ALT/AZ=84.8 133.6
fwAVG=4.23
sdW=14.1
fwW=4.18
sdS=14.6
fwS=4.41
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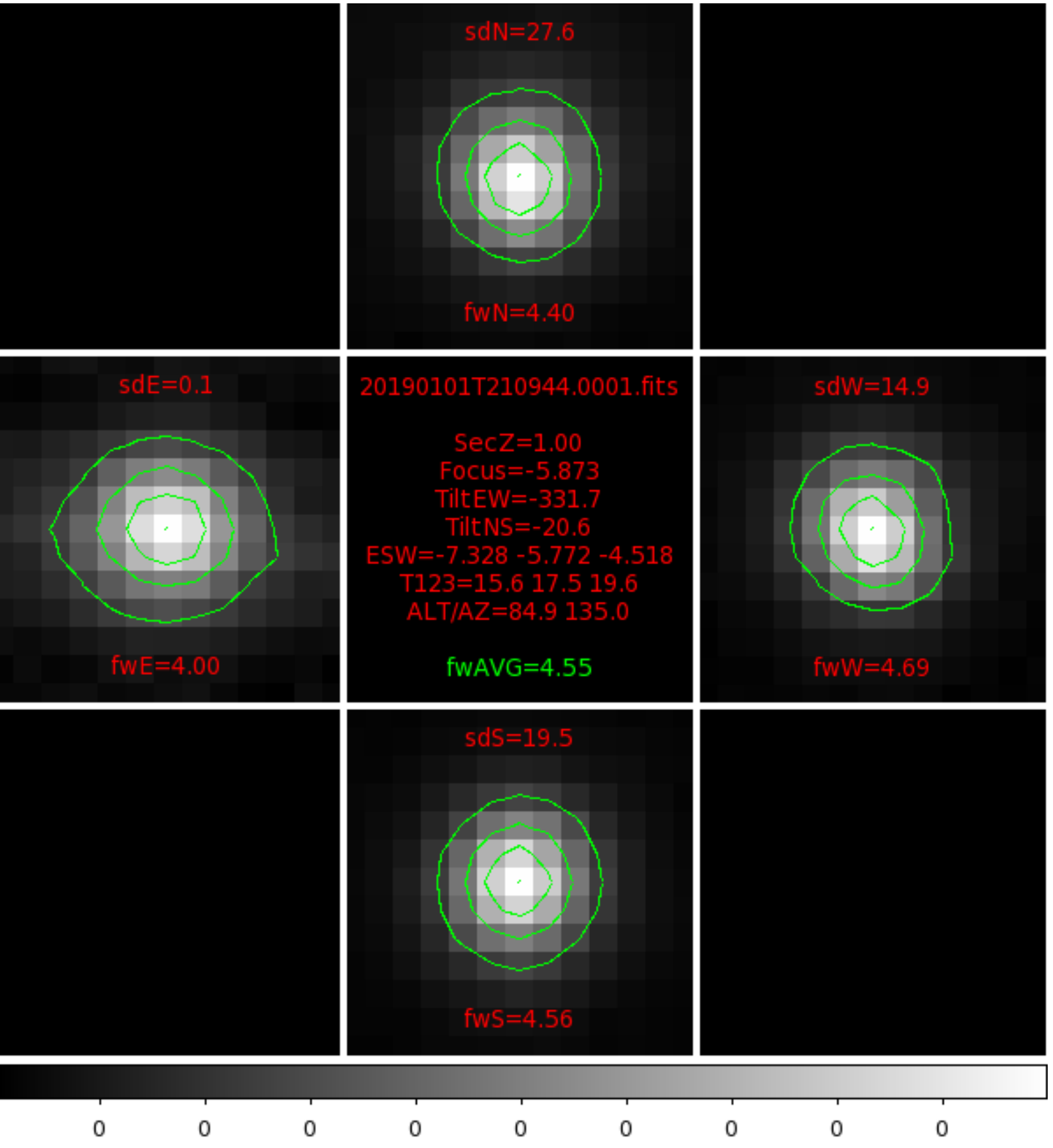
sdN=27.6
fwN=4.40
sdE=0.1
fwE=4.00
20190101T210944.0001.fits
SecZ=1.00
Focus=-5.873
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.328 -5.772 -4.518
T123=15.6 17.5 19.6
ALT/AZ=84.9 135.0
fwAVG=4.55
sdW=14.9
fwW=4.69
sdS=19.5
fwS=4.56
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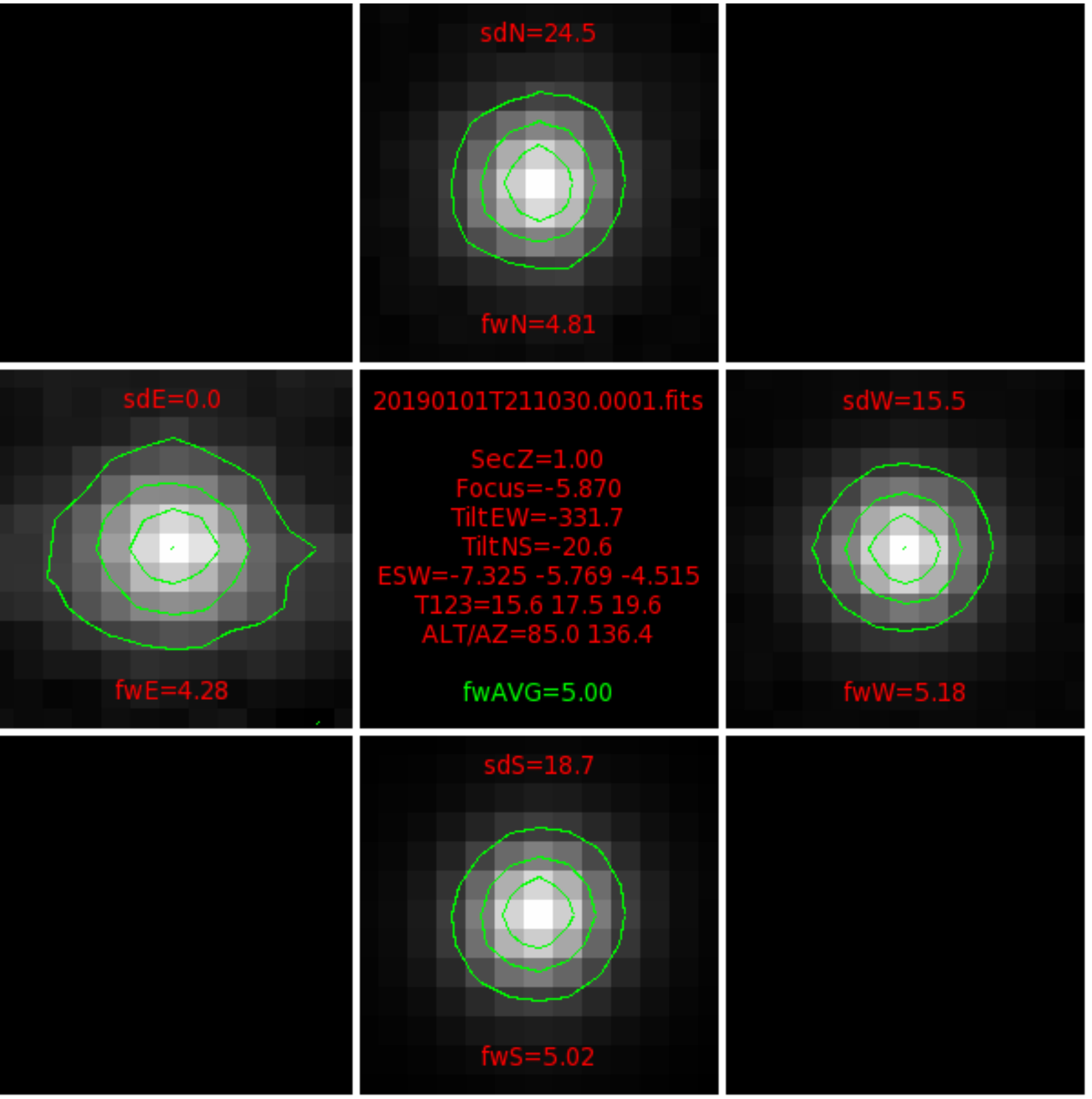
sdN=24.5
fwN=4.81
sdE=0.0
fwE=4.28
20190101T211030.0001.fits
SecZ=1.00
Focus=-5.870
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.325 -5.769 -4.515
T123=15.6 17.5 19.6
ALT/AZ=85.0 136.4
fwAVG=5.00
sdW=15.5
fwW=5.18
sdS=18.7
fwS=5.02
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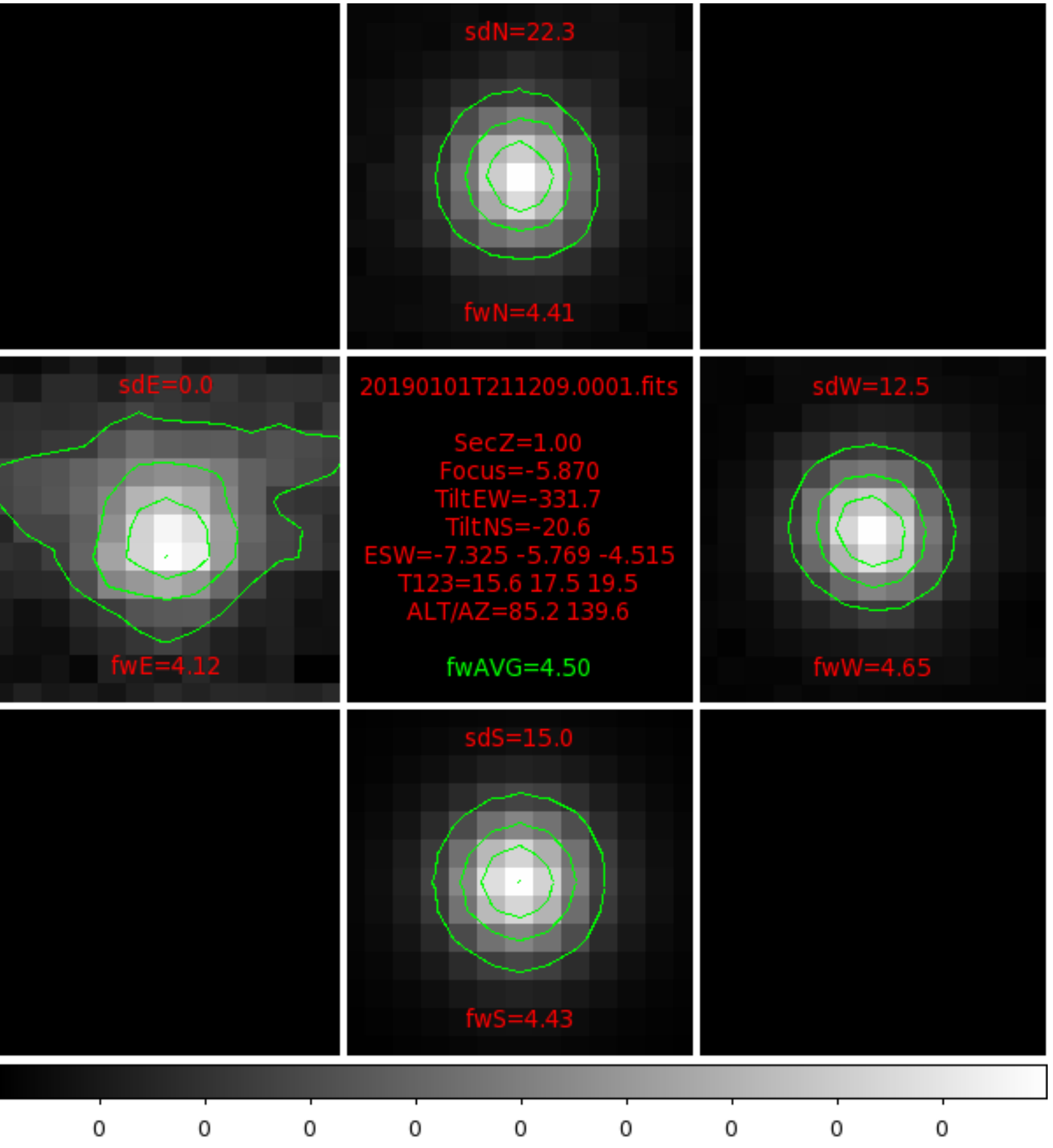
sdN=22.3
fwN=4.41
sdE=0.0
fwE=4.12
20190101T211209.0001.fits
SecZ=1.00
Focus=-5.870
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.325 -5.769 -4.515
T123=15.6 17.5 19.5
ALT/AZ=85.2 139.6
fwAVG=4.50
sdW=12.5
fwW=4.65
sdS=15.0
fwS=4.43
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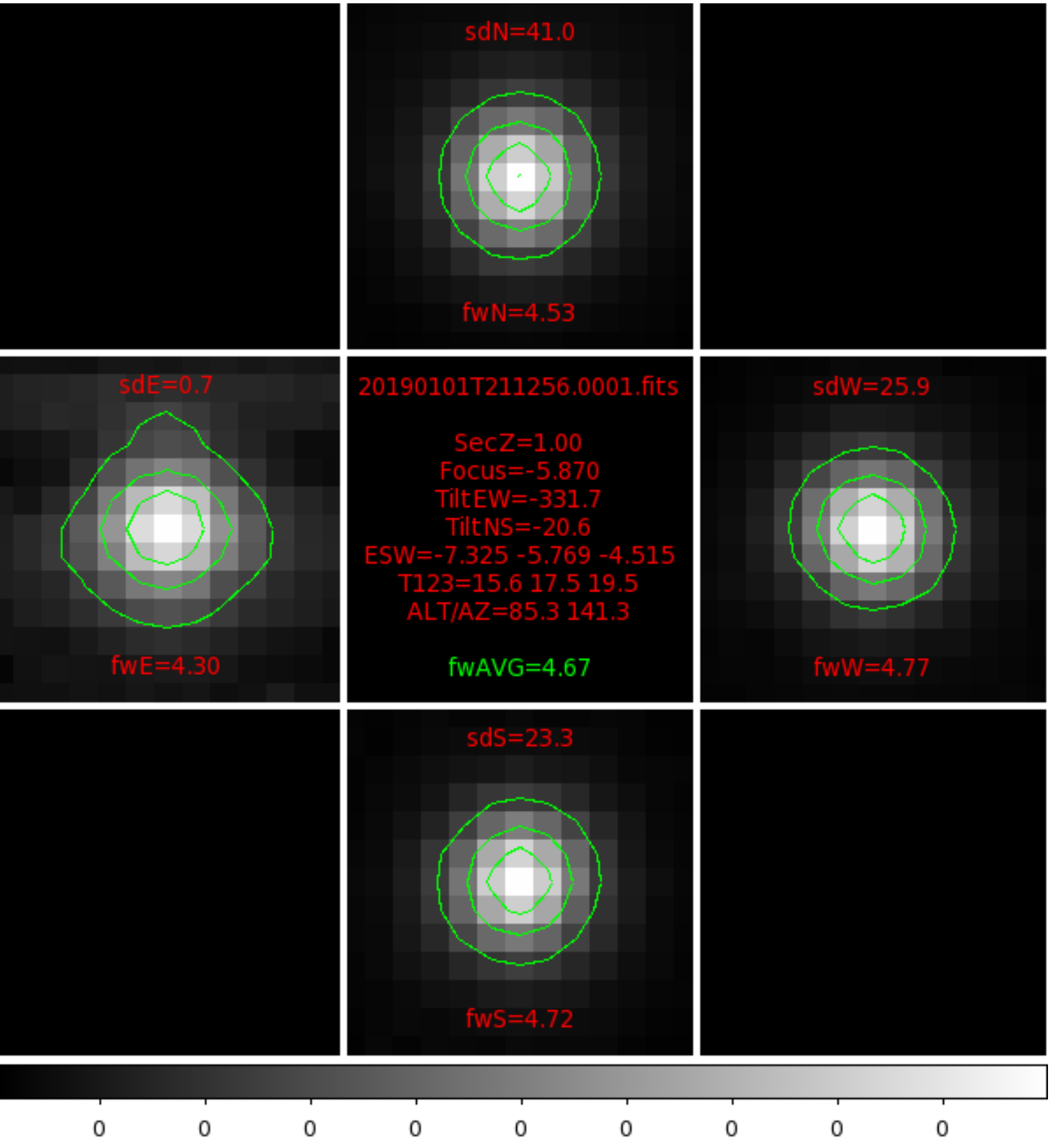
sdN=41.0
fwN=4.53
sdE=0.7
fwE=4.30
20190101T211256.0001.fits
SecZ=1.00
Focus=-5.870
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.325 -5.769 -4.515
T123=15.6 17.5 19.5
ALT/AZ=85.3 141.3
fwAVG=4.67
sdW=25.9
fwW=4.77
sdS=23.3
fwS=4.72
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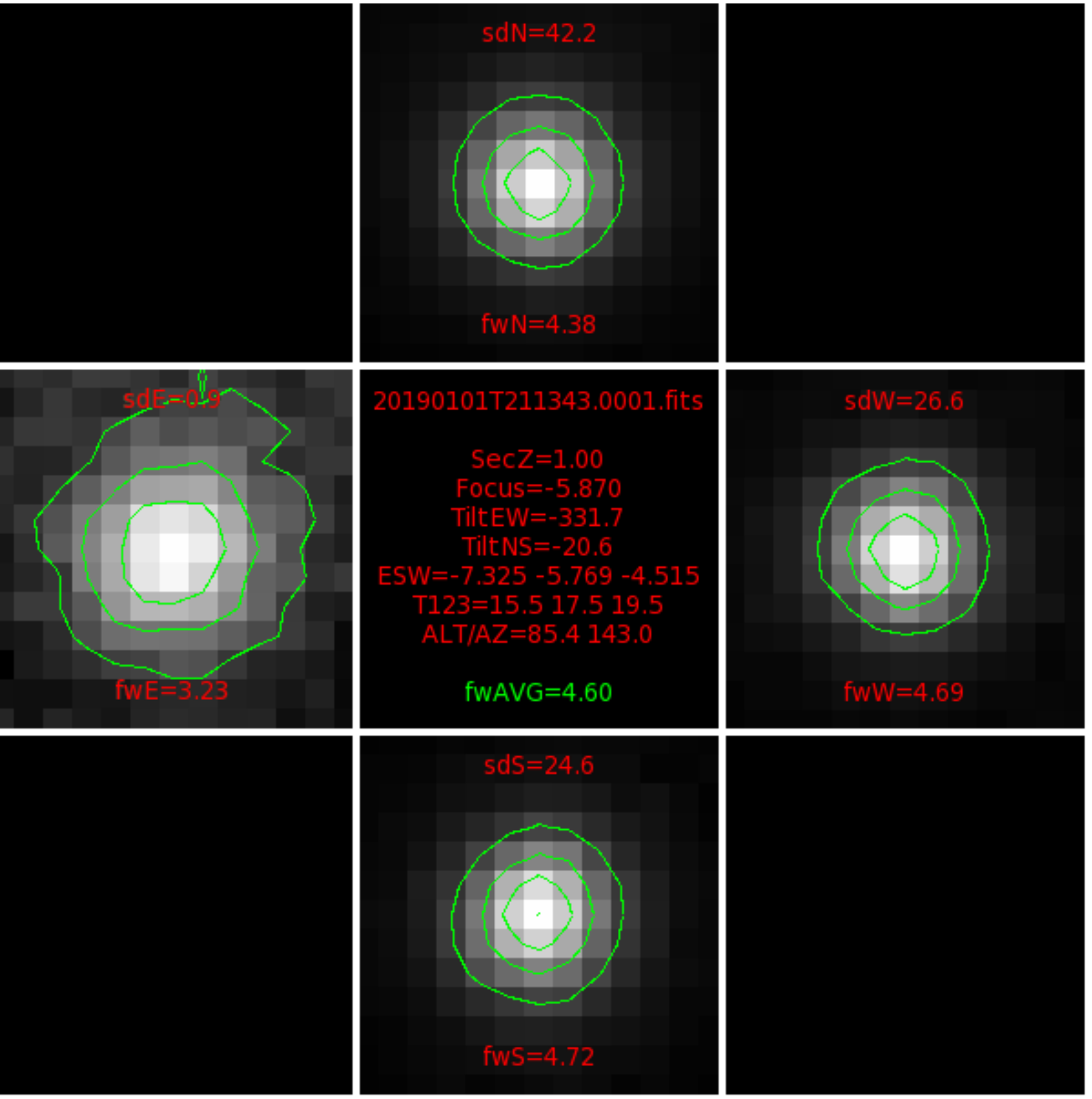
sdN=42.2
fwN=4.38
sdE=0.9
fwE=3.23
20190101T211343.0001.fits
SecZ=1.00
Focus=-5.870
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.325 -5.769 -4.515
T123=15.5 17.5 19.5
ALT/AZ=85.4 143.0
fwAVG=4.60
sdW=26.6
fwW=4.69
sdS=24.6
fwS=4.72
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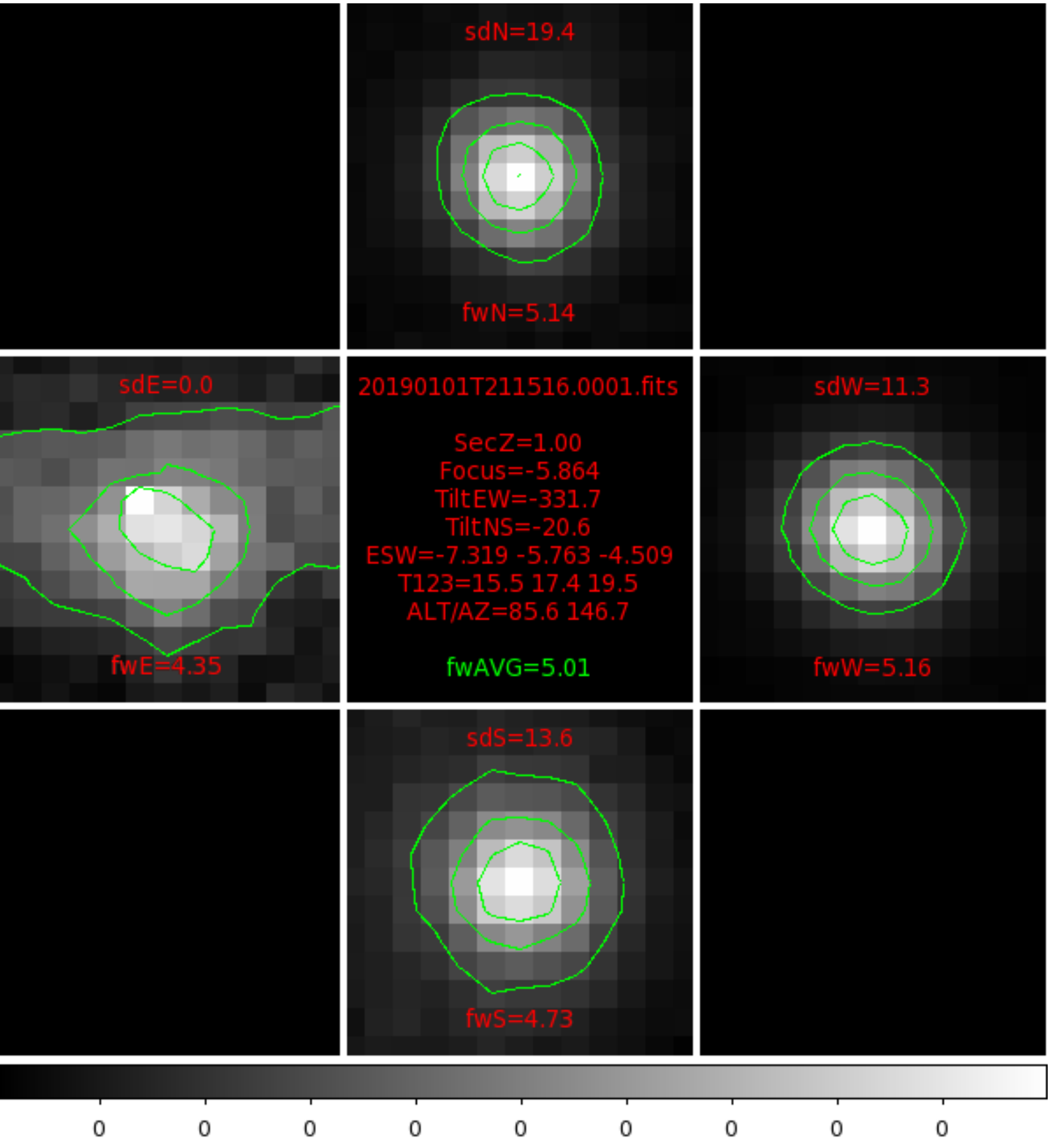
sdN=19.4
fwN=5.14
sdE=0.0
fwE=4.35
20190101T211516.0001.fits
SecZ=1.00
Focus=-5.864
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.319 -5.763 -4.509
T123=15.5 17.4 19.5
ALT/AZ=85.6 146.7
fwAVG=5.01
sdW=11.3
fwW=5.16
sdS=13.6
fwS=4.73
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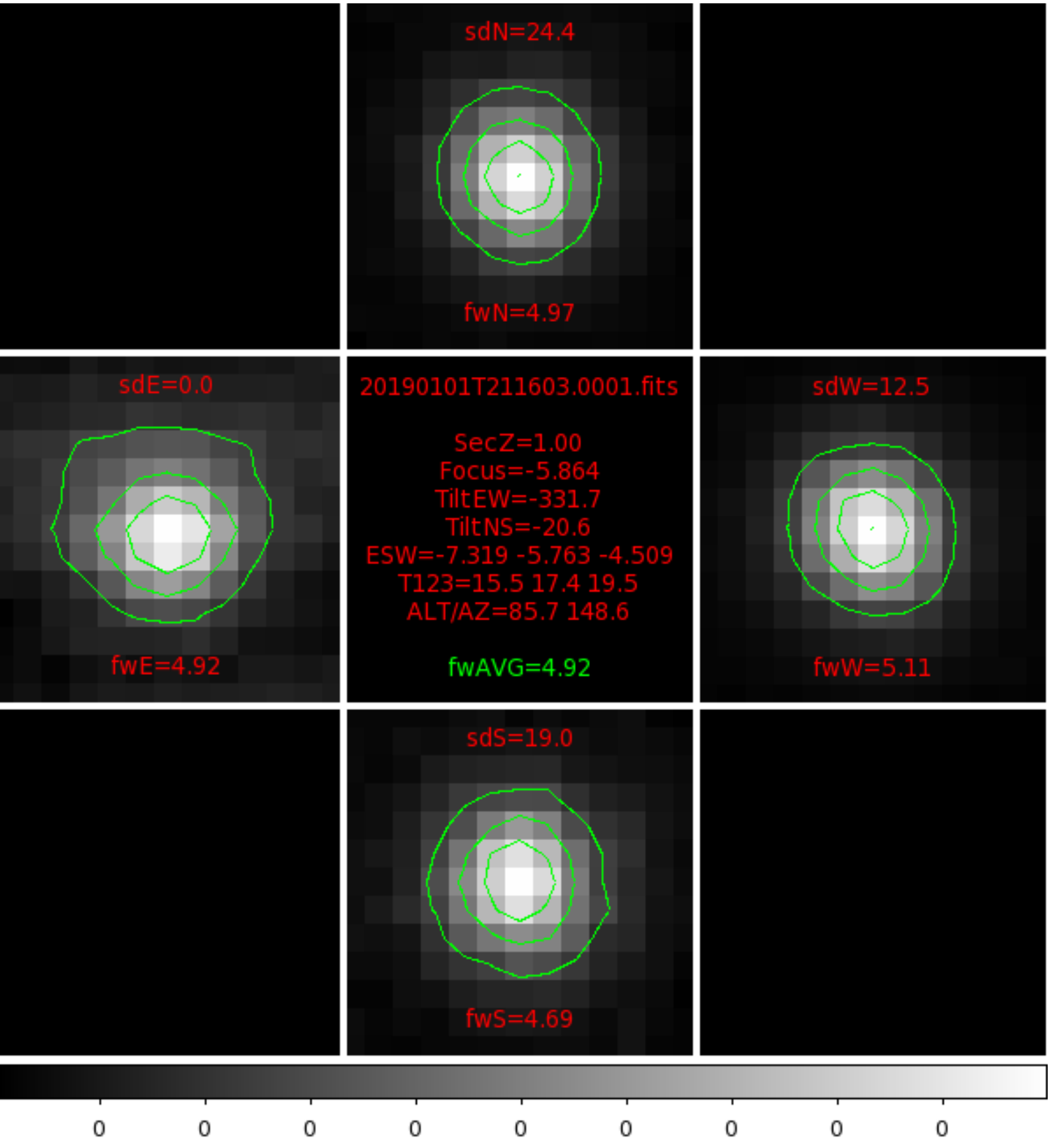
sdN=24.4
fwN=4.97
sdE=0.0
fwE=4.92
20190101T211603.0001.fits
SecZ=1.00
Focus=-5.864
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.319 -5.763 -4.509
T123=15.5 17.4 19.5
ALT/AZ=85.7 148.6
fwAVG=4.92
sdW=12.5
fwW=5.11
sdS=19.0
fwS=4.69
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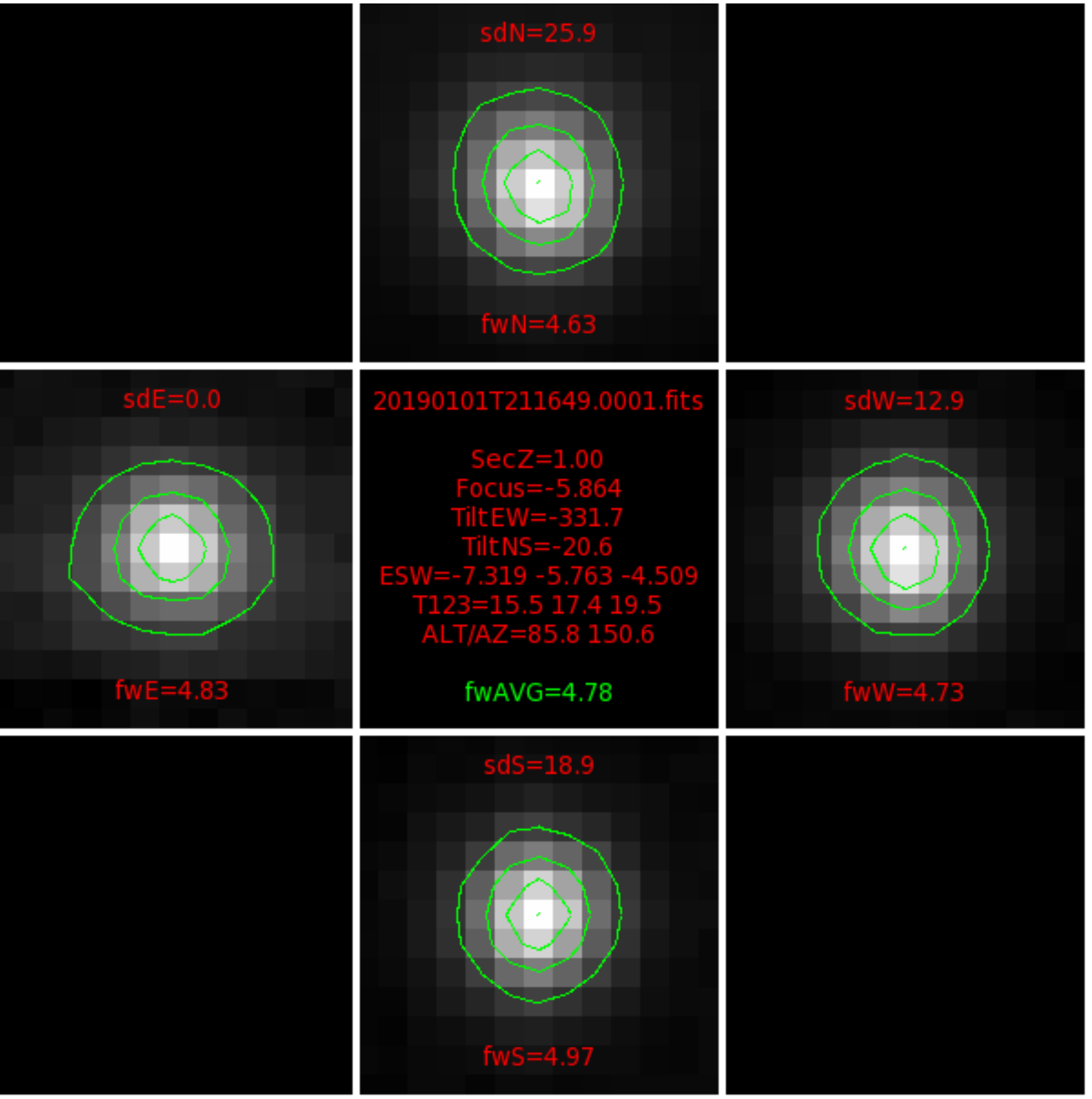
sdN=25.9
fwN=4.63
sdE=0.0
fwE=4.83
20190101T211649.0001.fits
SecZ=1.00
Focus=-5.864
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.319 -5.763 -4.509
T123=15.5 17.4 19.5
ALT/AZ=85.8 150.6
fwAVG=4.78
sdW=12.9
fwW=4.73
sdS=18.9
fwS=4.97
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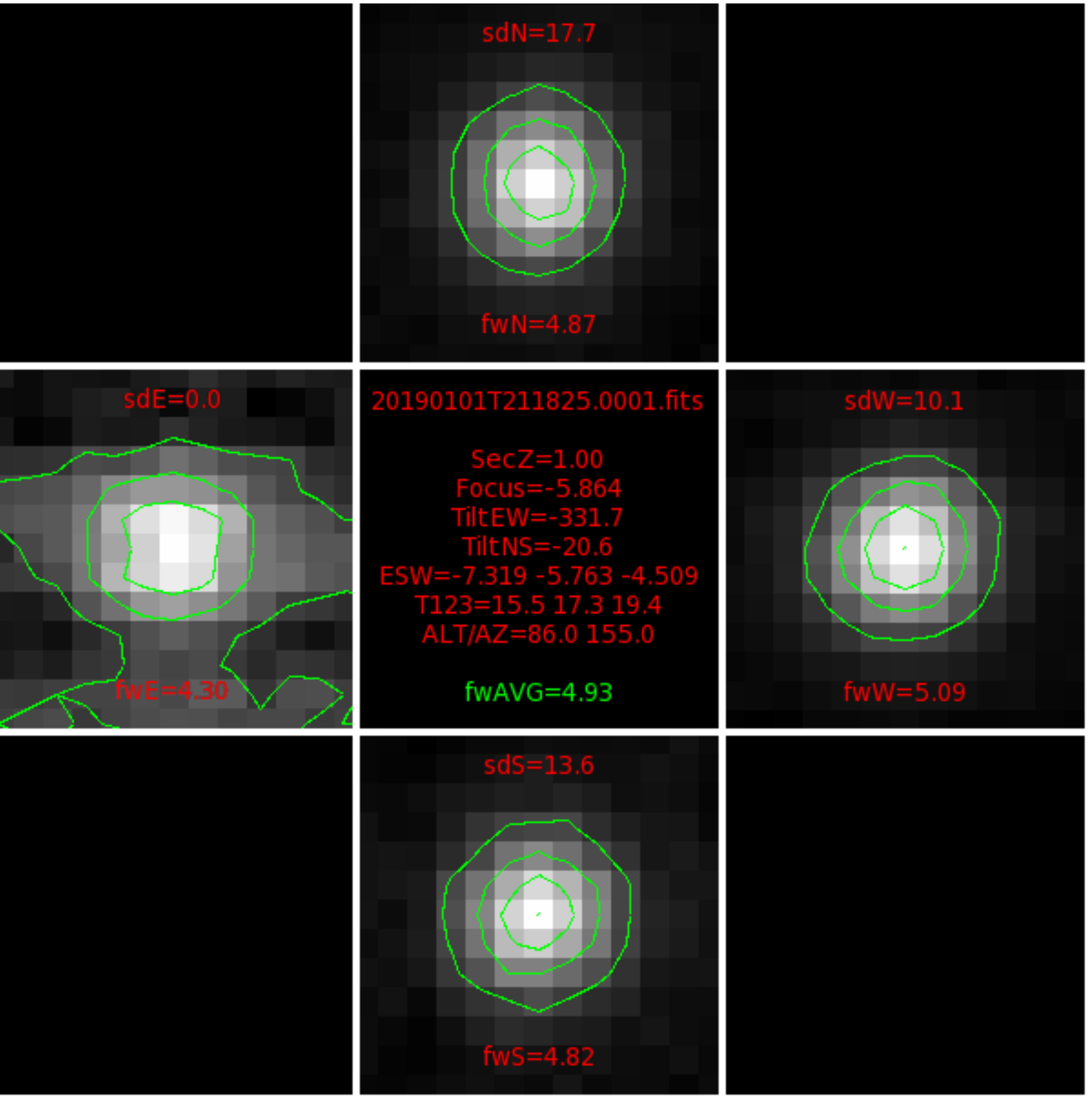
sdN=17.7
fwN=4.87
sdE=0.0
fwE=4.30
20190101T211825.0001.fits
SecZ=1.00
Focus=-5.864
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.319 -5.763 -4.509
T123=15.5 17.3 19.4
ALT/AZ=86.0 155.0
fwAVG=4.93
sdW=10.1
fwW=5.09
sdS=13.6
fwS=4.82
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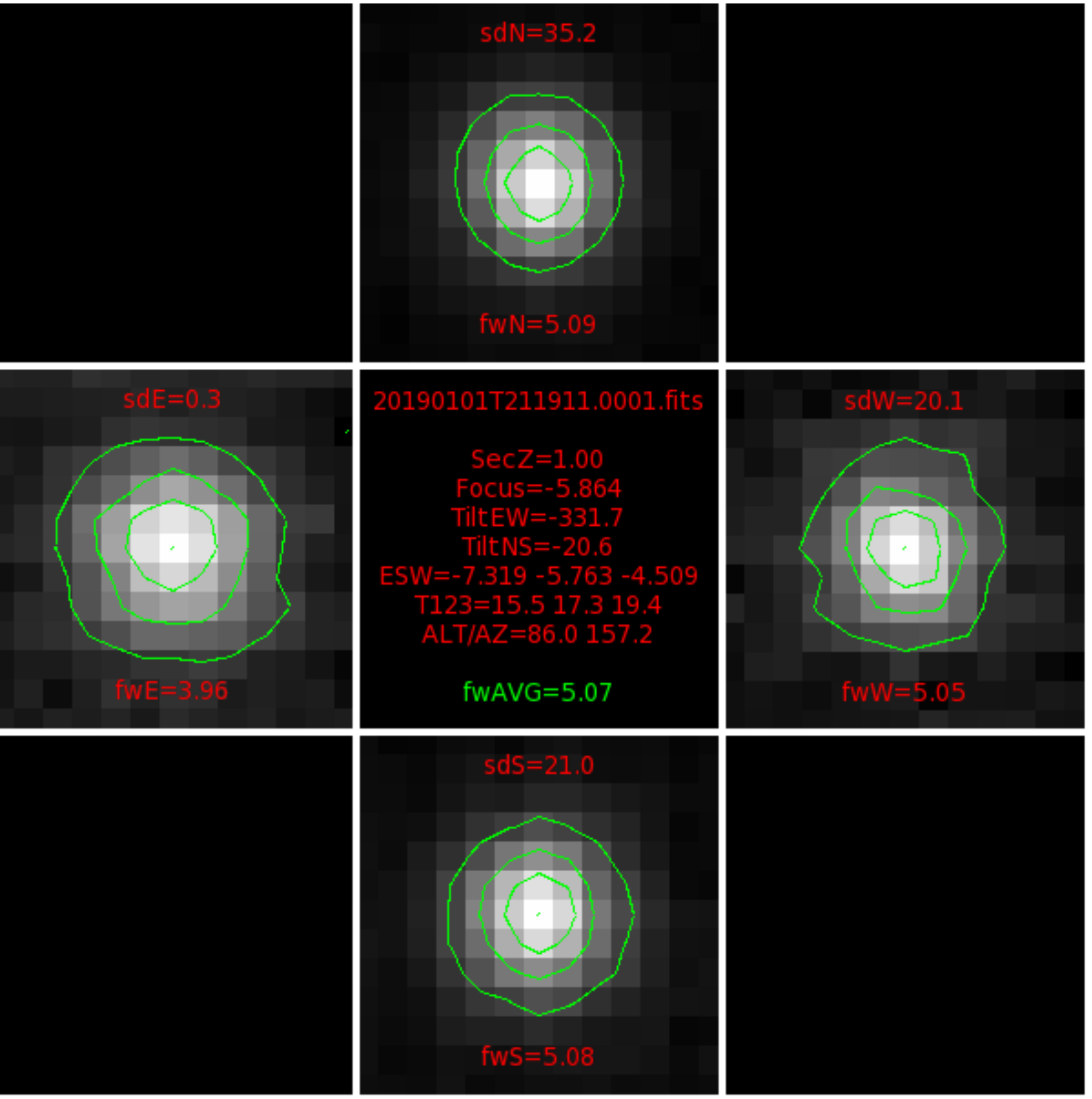
sdN=35.2
fwN=5.09
sdE=0.3
fwE=3.96
20190101T211911.0001.fits
SecZ=1.00
Focus=-5.864
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.319 -5.763 -4.509
T123=15.5 17.3 19.4
ALT/AZ=86.0 157.2
fwAVG=5.07
sdW=20.1
fwW=5.05
sdS=21.0
fwS=5.08
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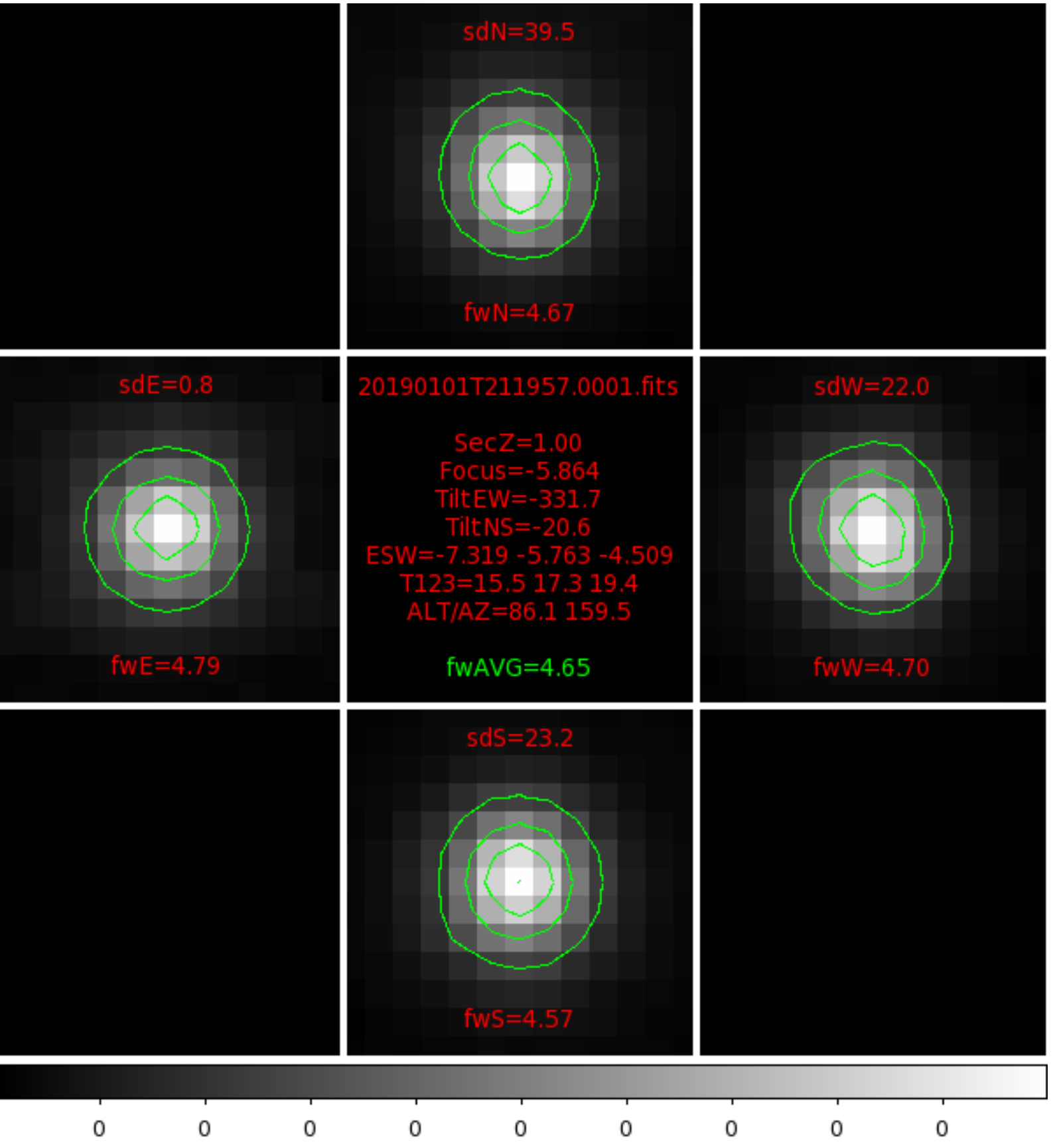
sdN=39.5
fwN=4.67
sdE=0.8
fwE=4.79
20190101T211957.0001.fits
SecZ=1.00
Focus=-5.864
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.319 -5.763 -4.509
T123=15.5 17.3 19.4
ALT/AZ=86.1 159.5
fwAVG=4.65
sdW=22.0
fwW=4.70
sdS=23.2
fwS=4.57
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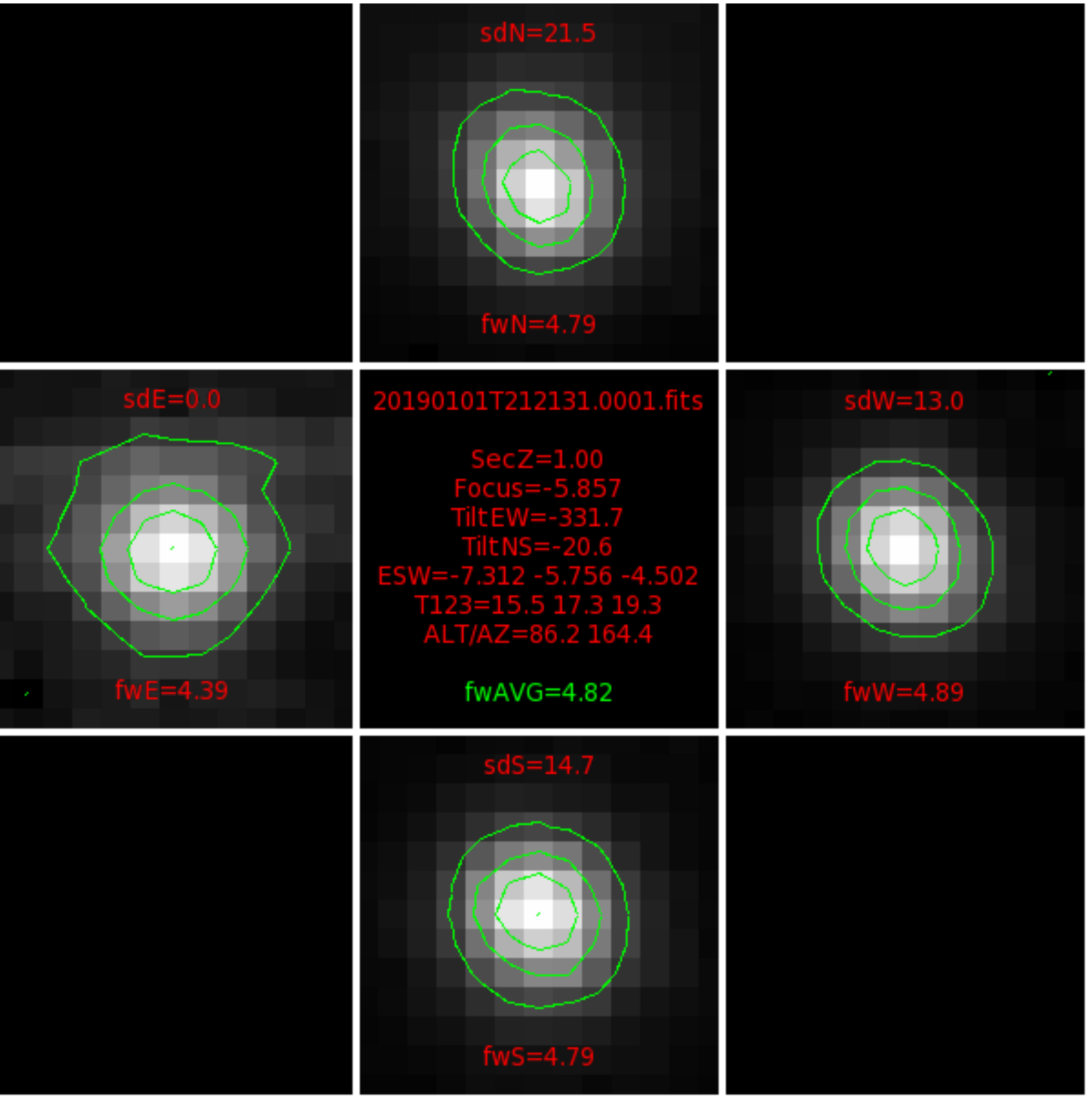
sdN=21.5
fwN=4.79
sdE=0.0
fwE=4.39
20190101T212131.0001.fits
SecZ=1.00
Focus=-5.857
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.312 -5.756 -4.502
T123=15.5 17.3 19.3
ALT/AZ=86.2 164.4
fwAVG=4.82
sdW=13.0
fwW=4.89
sdS=14.7
fwS=4.79
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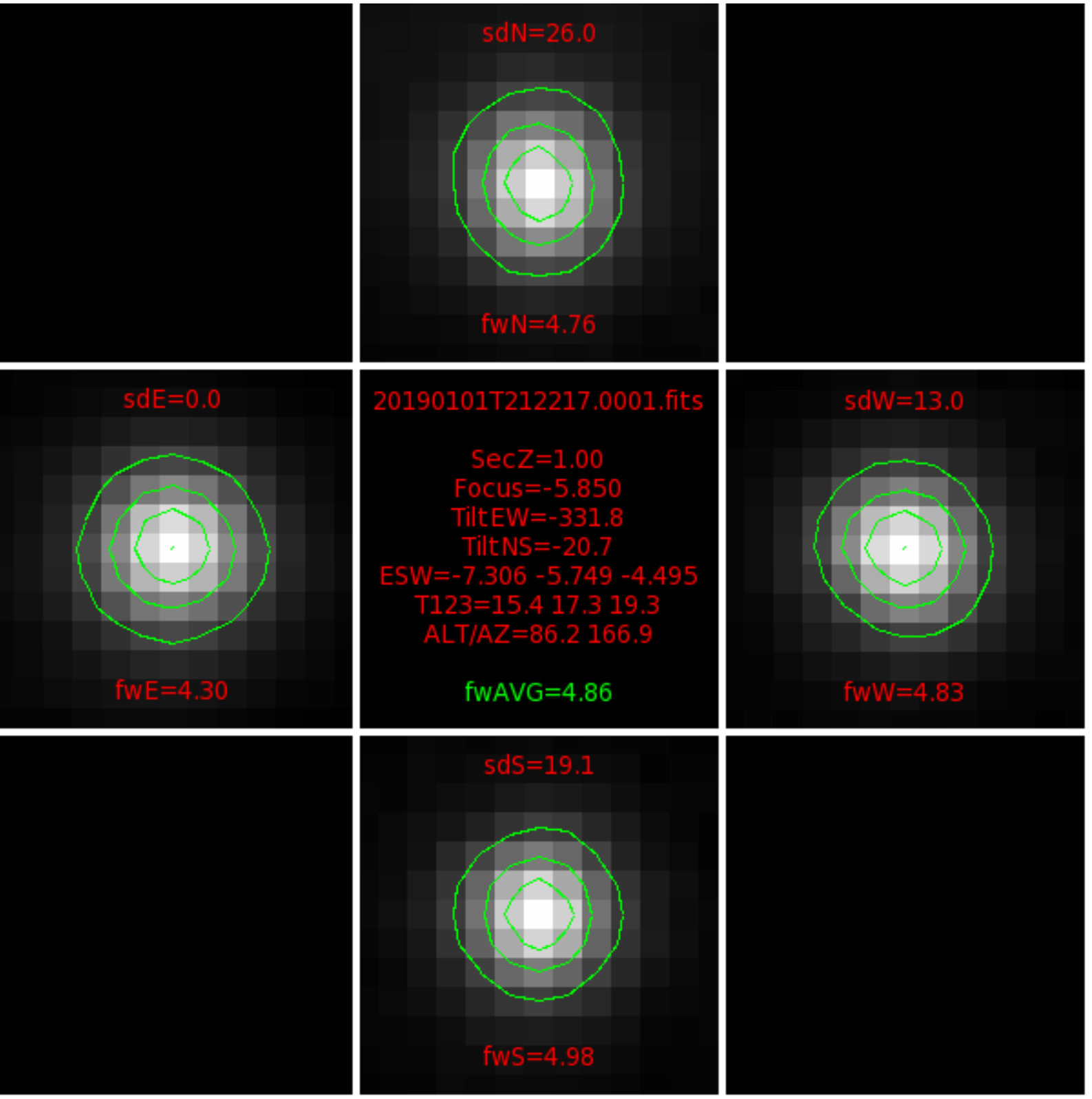
sdN=26.0
fwN=4.76
sdE=0.0
fwE=4.30
20190101T212217.0001.fits
SecZ=1.00
Focus=-5.850
TiltEW=-331.8
TiltNS=-20.7
ESW=-7.306 -5.749 -4.495
T123=15.4 17.3 19.3
ALT/AZ=86.2 166.9
fwAVG=4.86
sdW=13.0
fwW=4.83
sdS=19.1
fwS=4.98
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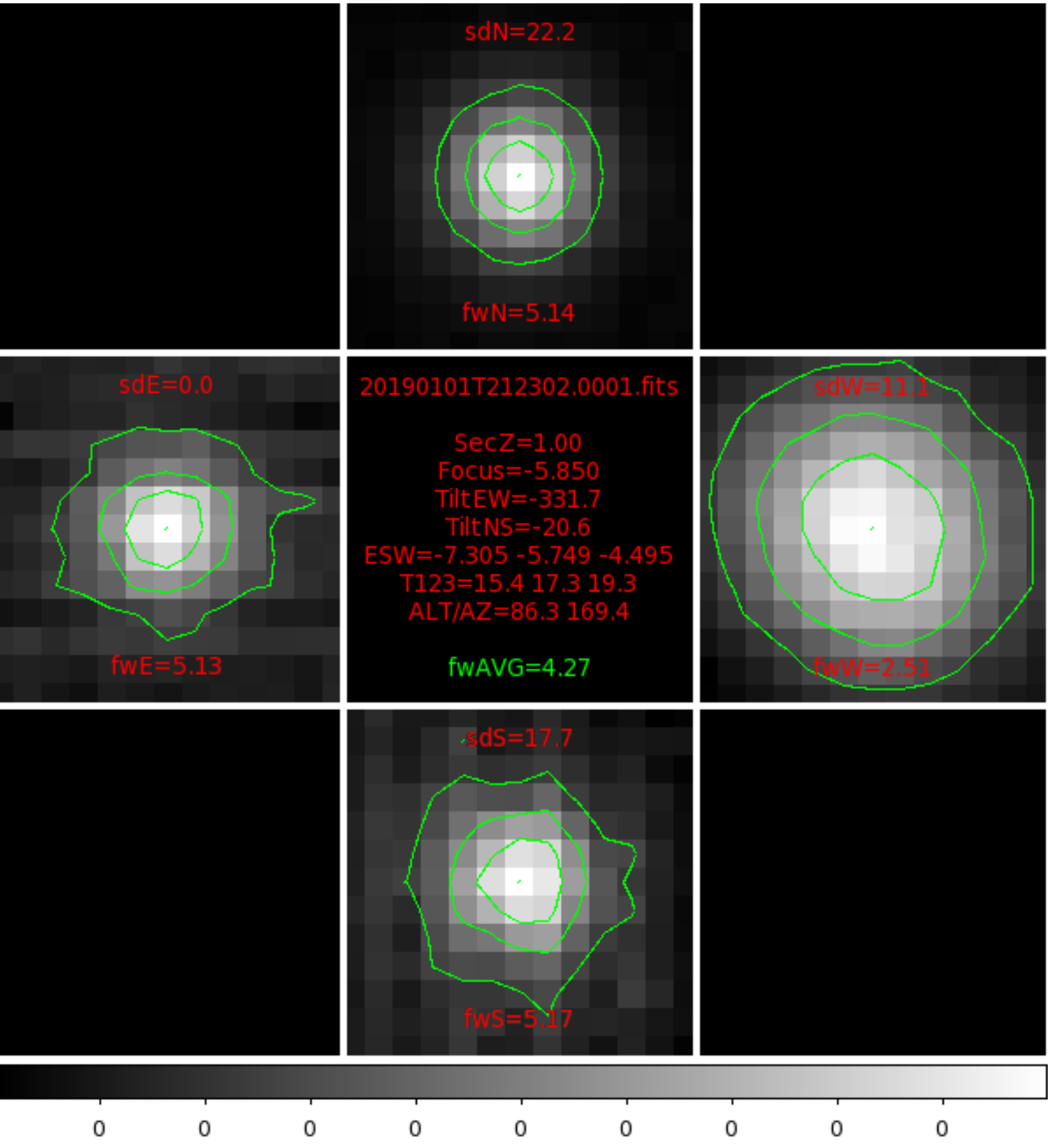
sdN=22.2
fwN=5.14
sdE=0.0
fwE=5.13
20190101T212302.0001.fits
SecZ=1.00
Focus=-5.850
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.305 -5.749 -4.495
T123=15.4 17.3 19.3
ALT/AZ=86.3 169.4
fwAVG=4.27
sdW=11.1
fwW=2.51
sdS=17.7
fwS=5.17
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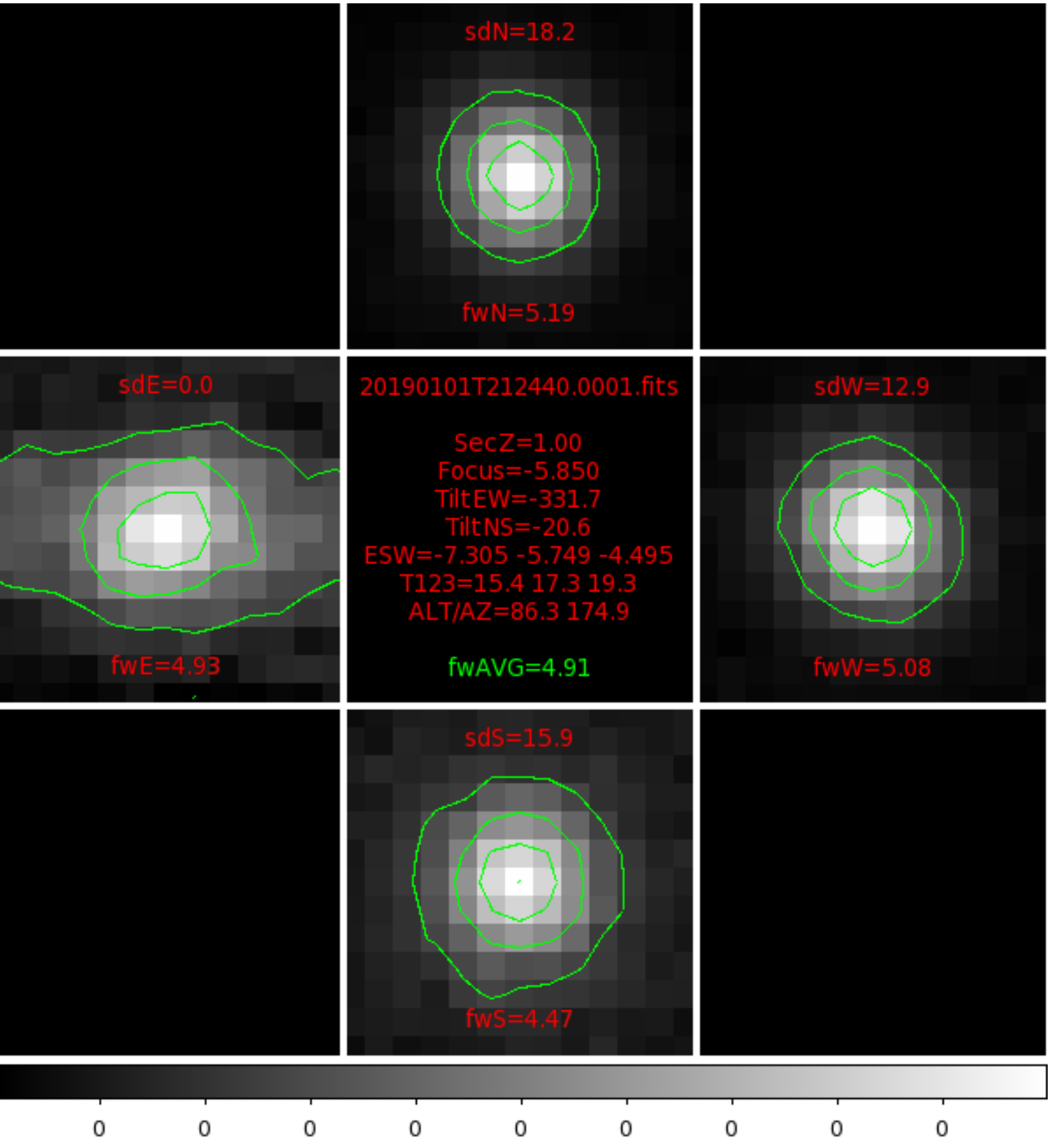
sdN=18.2
fwN=5.19
sdE=0.0
fwE=4.93
20190101T212440.0001.fits
SecZ=1.00
Focus=-5.850
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.305 -5.749 -4.495
T123=15.4 17.3 19.3
ALT/AZ=86.3 174.9
fwAVG=4.91
sdW=12.9
fwW=5.08
sdS=15.9
fwS=4.47
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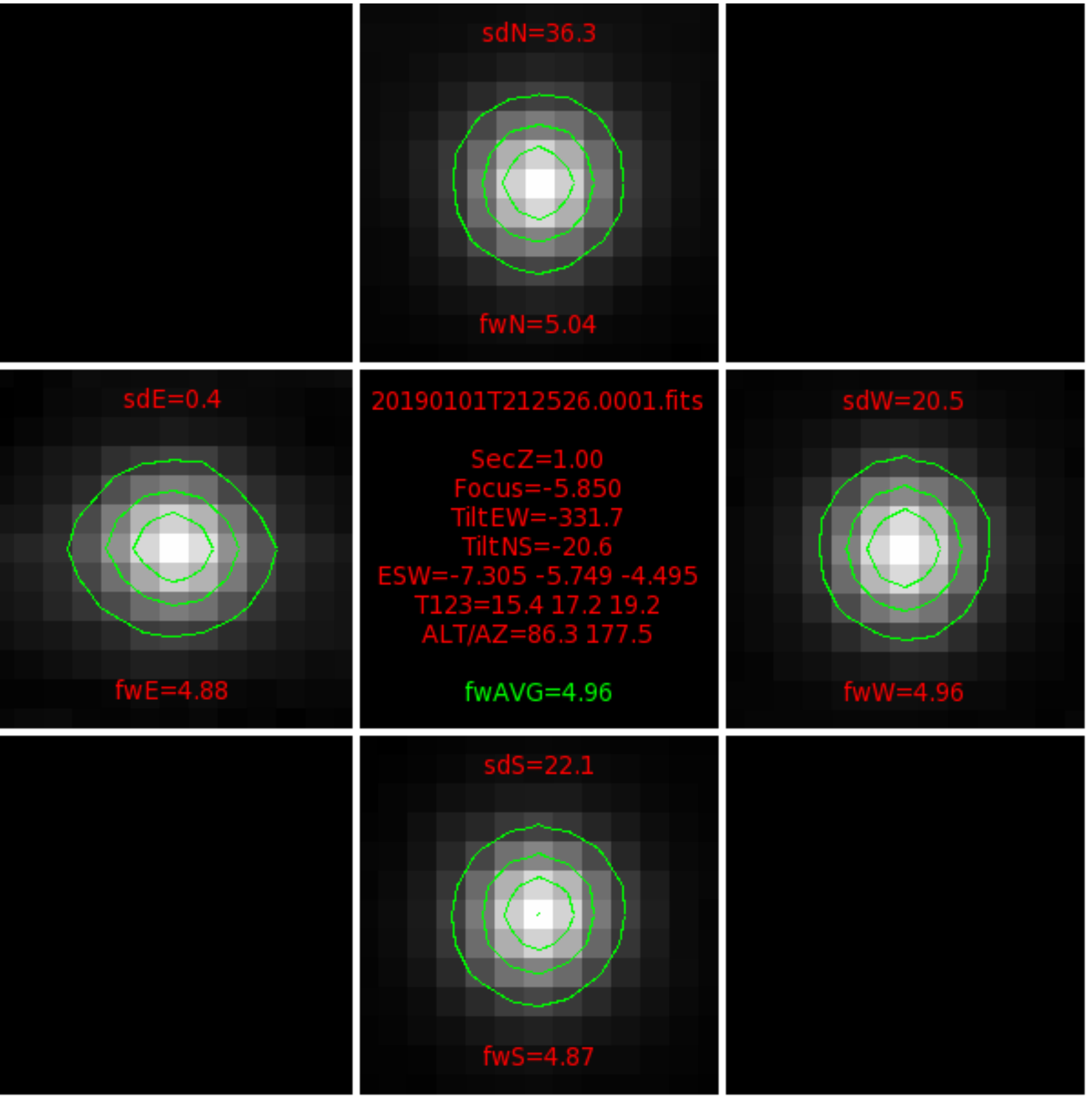
sdN=36.3
fwN=5.04
sdE=0.4
fwE=4.88
20190101T212526.0001.fits
SecZ=1.00
Focus=-5.850
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.305 -5.749 -4.495
T123=15.4 17.2 19.2
ALT/AZ=86.3 177.5
fwAVG=4.96
sdW=20.5
fwW=4.96
sdS=22.1
fwS=4.87
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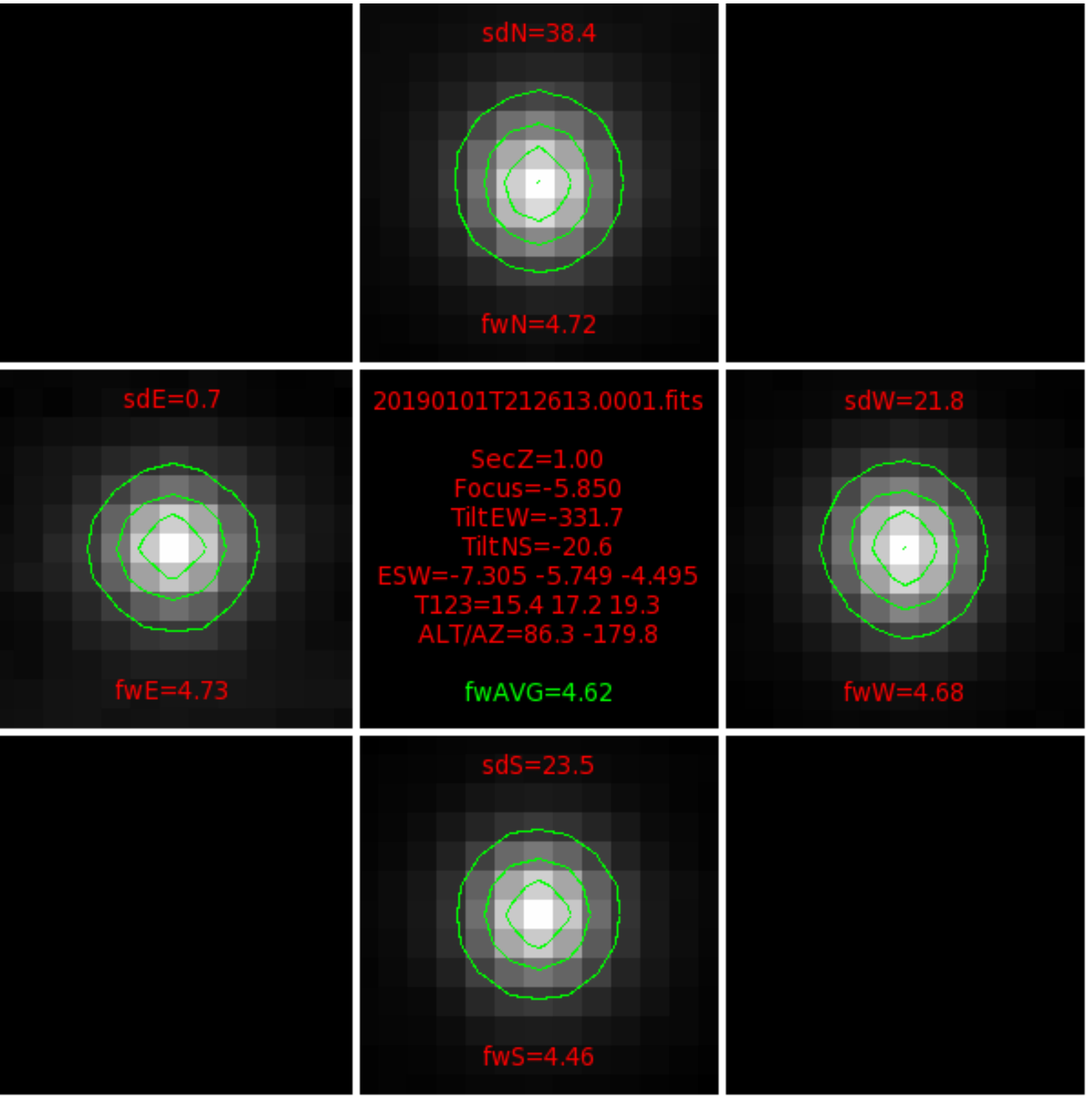
sdN=38.4
fwN=4.72
sdE=0.7
fwE=4.73
20190101T212613.0001.fits
SecZ=1.00
Focus=-5.850
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.305 -5.749 -4.495
T123=15.4 17.2 19.3
ALT/AZ=86.3 -179.8
fwAVG=4.62
sdW=21.8
fwW=4.68
sdS=23.5
fwS=4.46
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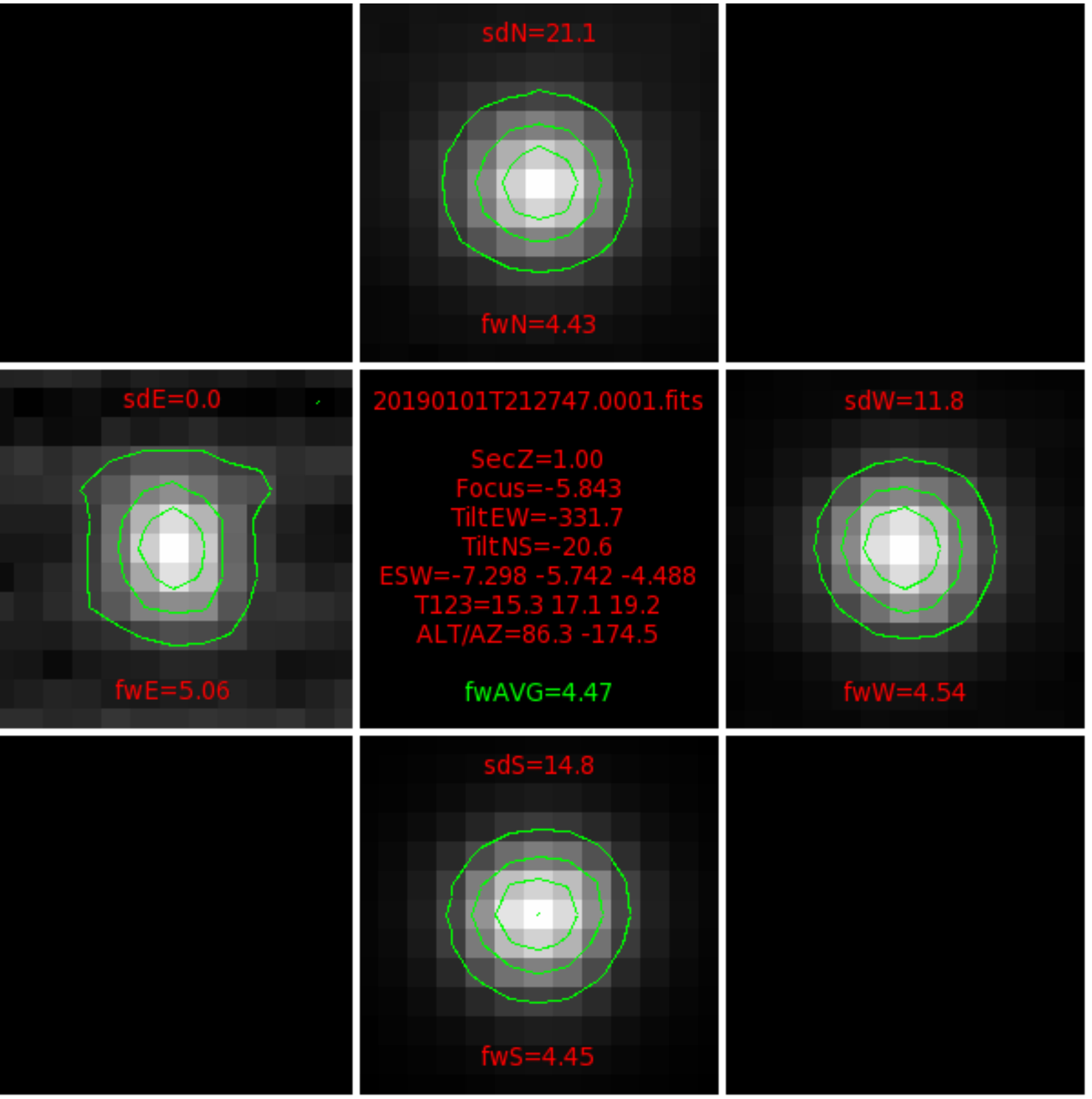
sdN=21.1
fwN=4.43
sdE=0.0
fwE=5.06
20190101T212747.0001.fits
SecZ=1.00
Focus=-5.843
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.298 -5.742 -4.488
T123=15.3 17.1 19.2
ALT/AZ=86.3 -174.5
fwAVG=4.47
sdW=11.8
fwW=4.54
sdS=14.8
fwS=4.45
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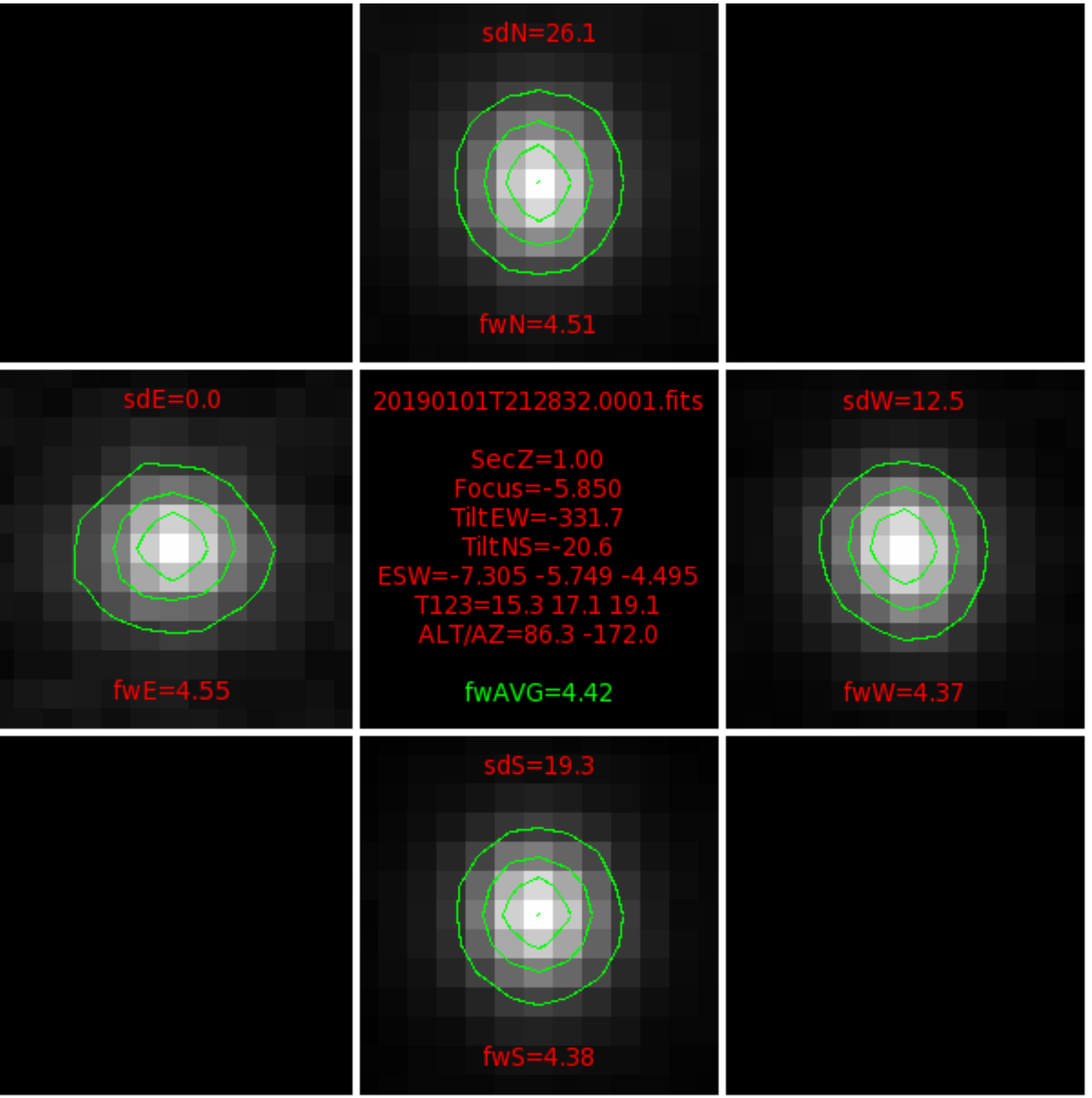
sdN=26.1
fwN=4.51
sdE=0.0
fwE=4.55
20190101T212832.0001.fits
SecZ=1.00
Focus=-5.850
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.305 -5.749 -4.495
T123=15.3 17.1 19.1
ALT/AZ=86.3 -172.0
fwAVG=4.42
sdW=12.5
fwW=4.37
sdS=19.3
fwS=4.38
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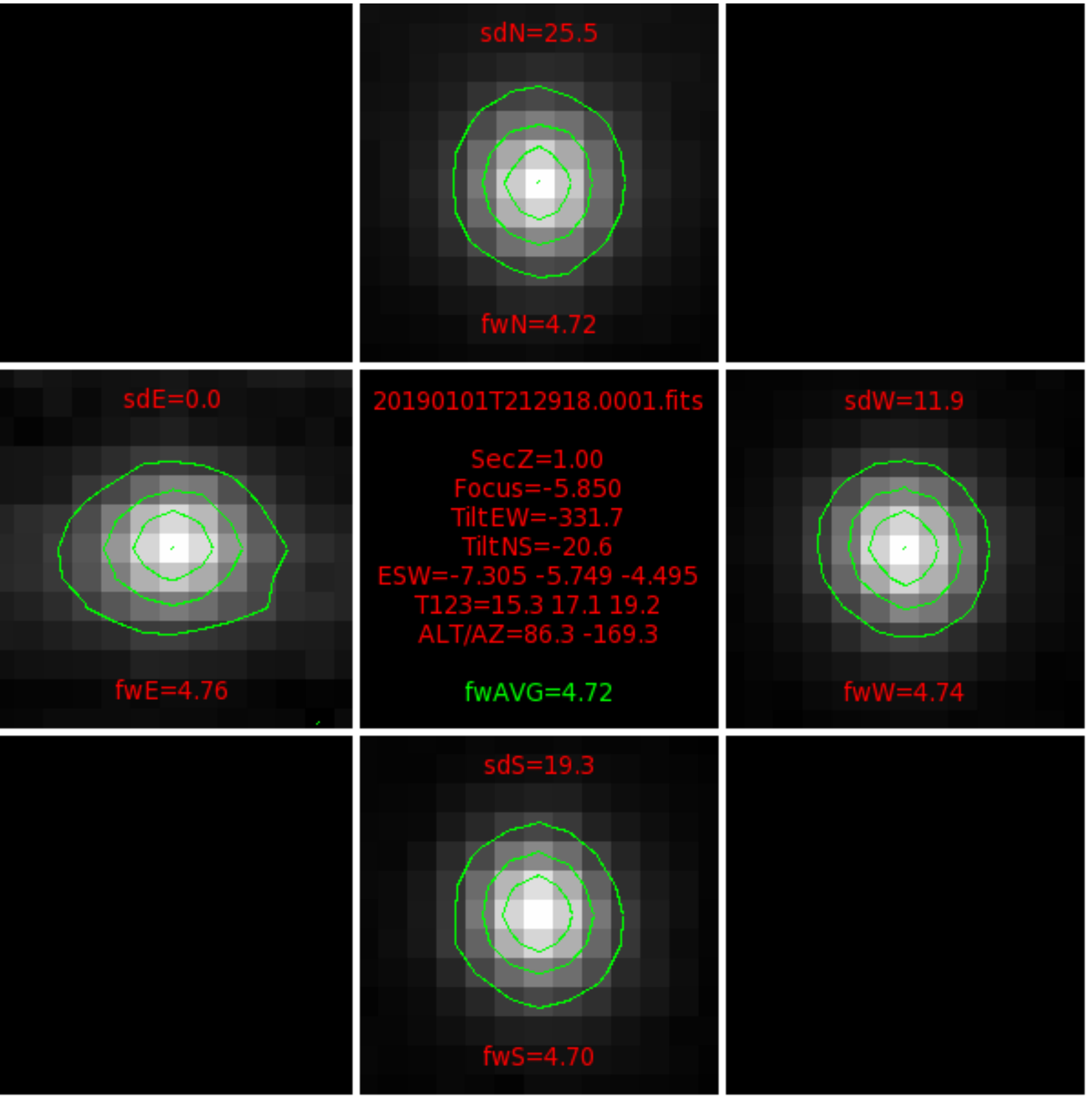
sdN=25.5
fwN=4.72
sdE=0.0
fwE=4.76
20190101T212918.0001.fits
SecZ=1.00
Focus=-5.850
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.305 -5.749 -4.495
T123=15.3 17.1 19.2
ALT/AZ=86.3 -169.3
fwAVG=4.72
sdW=11.9
fwW=4.74
sdS=19.3
fwS=4.70
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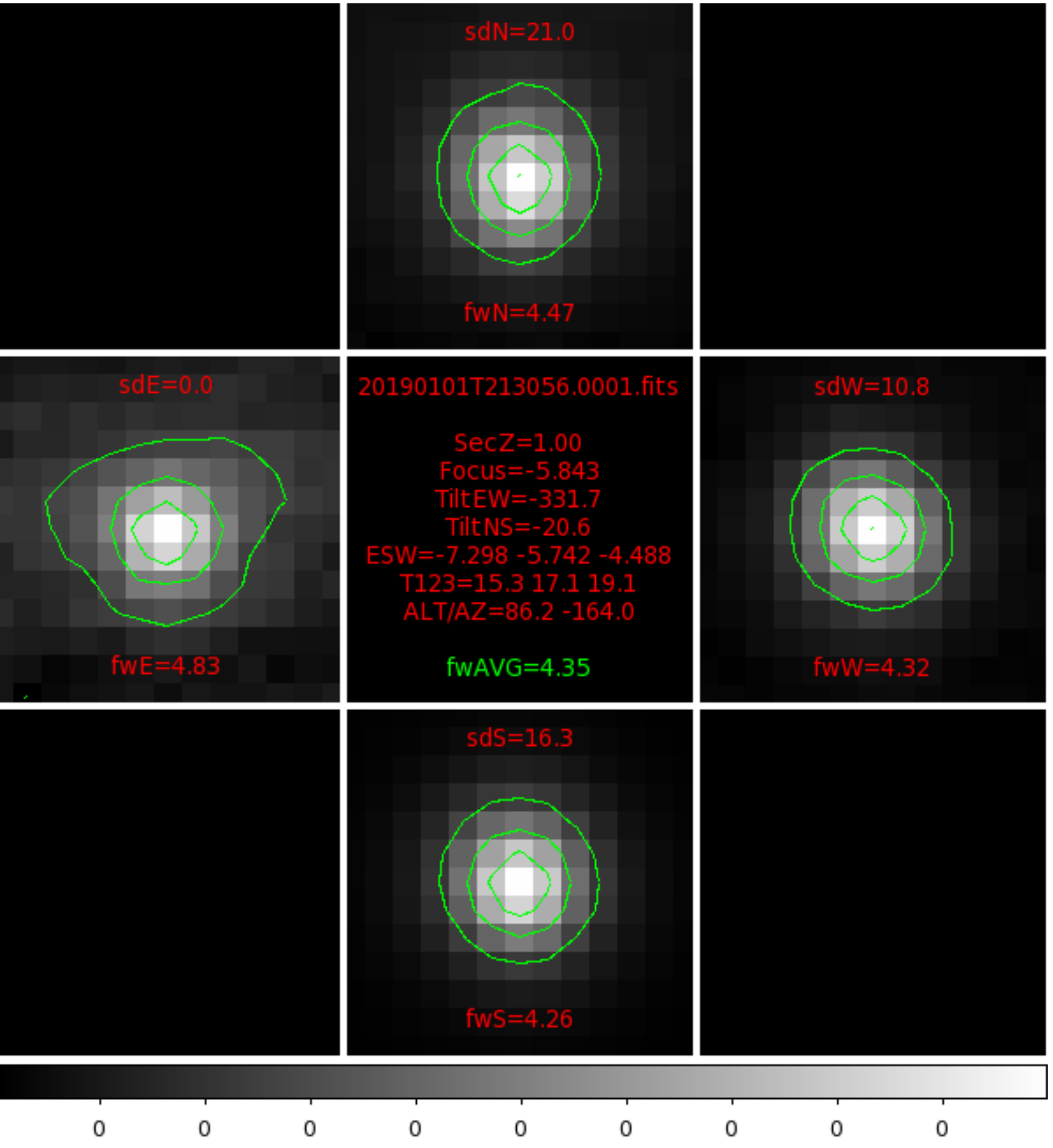
sdN=21.0
fwN=4.47
sdE=0.0
fwE=4.83
20190101T213056.0001.fits
SecZ=1.00
Focus=-5.843
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.298 -5.742 -4.488
T123=15.3 17.1 19.1
ALT/AZ=86.2 -164.0
fwAVG=4.35
sdW=10.8
fwW=4.32
sdS=16.3
fwS=4.26
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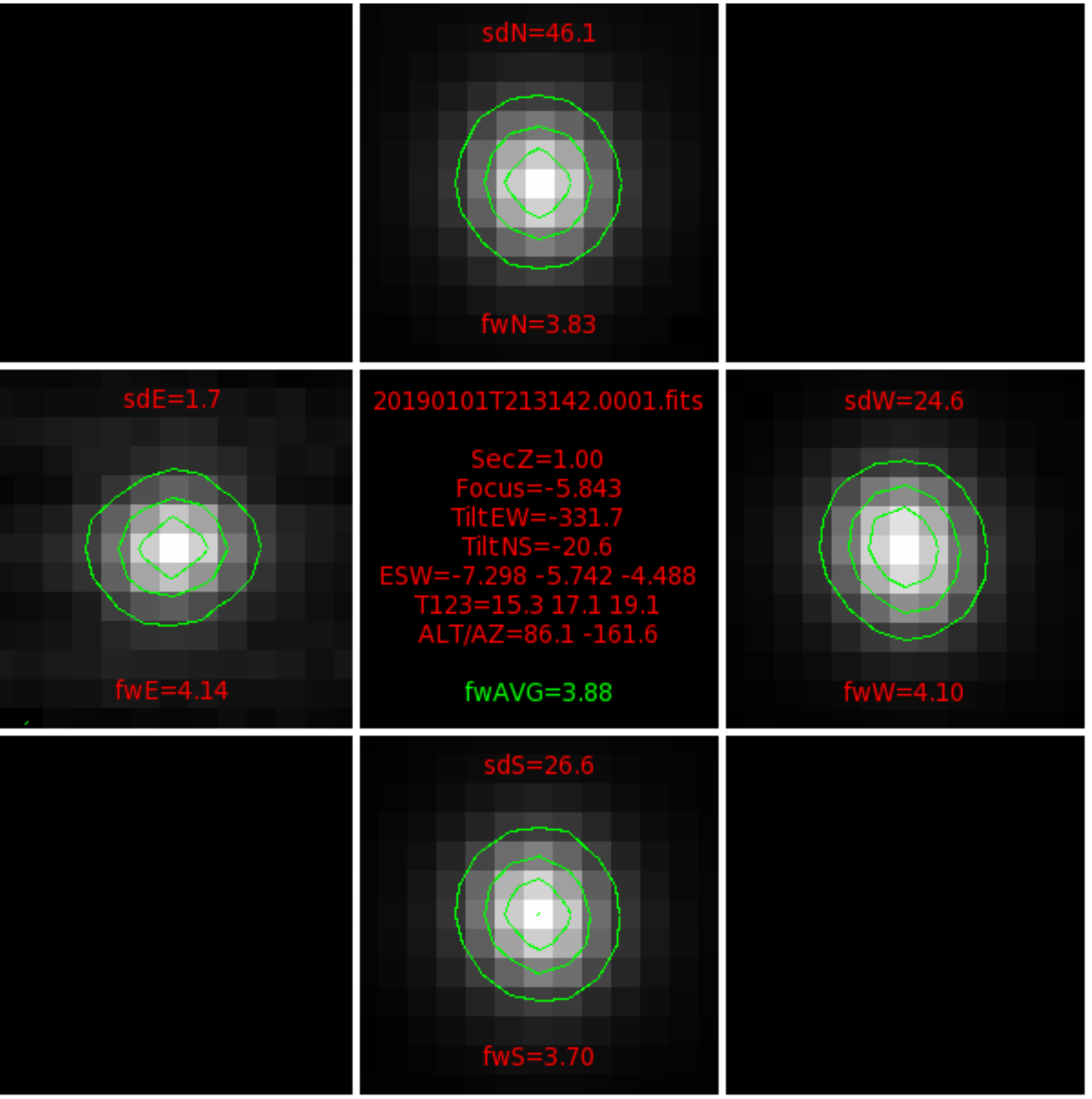
sdN=46.1
fwN=3.83
sdE=1.7
fwE=4.14
20190101T213142.0001.fits
SecZ=1.00
Focus=-5.843
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.298 -5.742 -4.488
T123=15.3 17.1 19.1
ALT/AZ=86.1 -161.6
fwAVG=3.88
sdW=24.6
fwW=4.10
sdS=26.6
fwS=3.70
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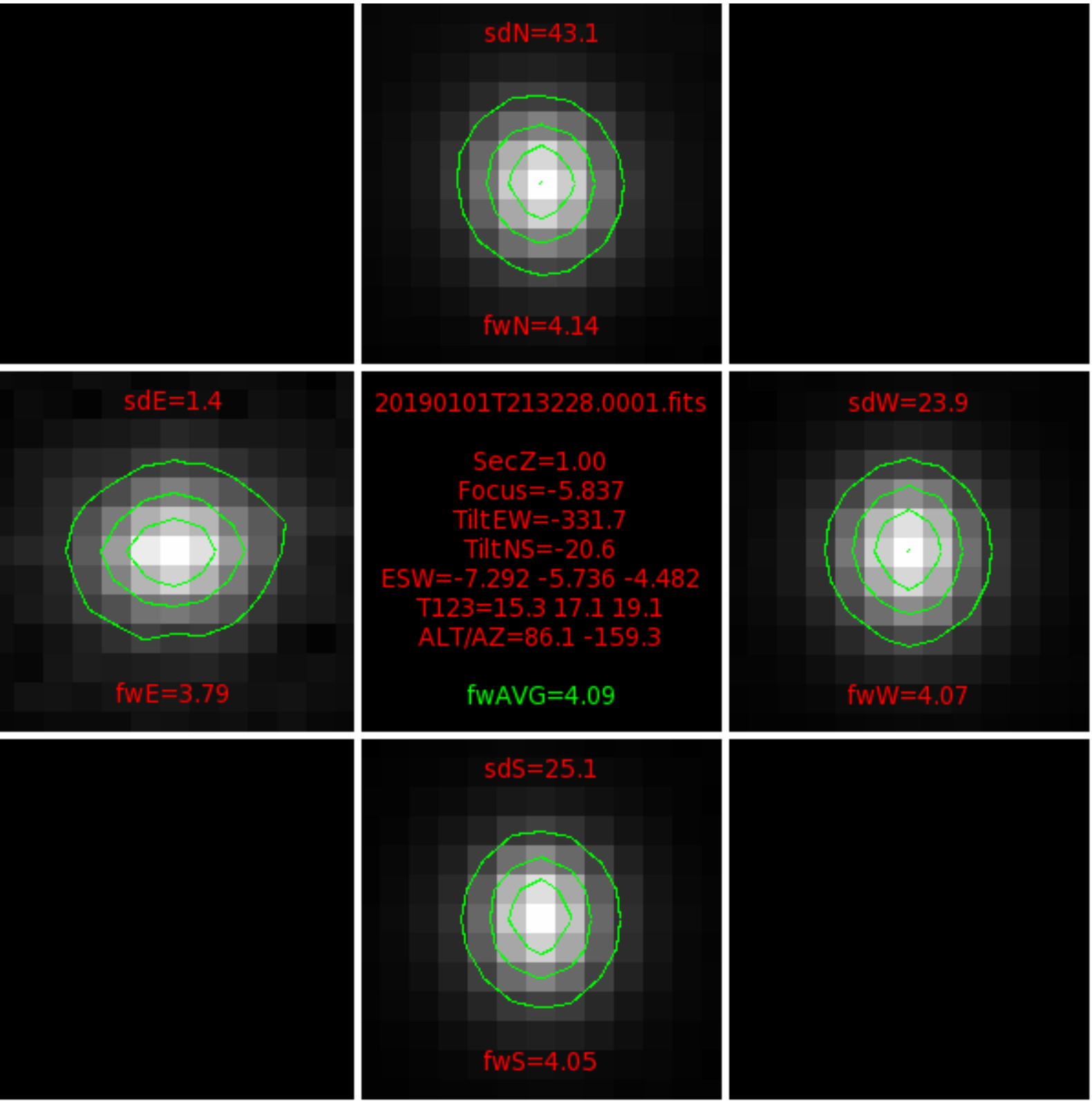
sdN=43.1
fwN=4.14
sdE=1.4
fwE=3.79
20190101T213228.0001.fits
SecZ=1.00
Focus=-5.837
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.292 -5.736 -4.482
T123=15.3 17.1 19.1
ALT/AZ=86.1 -159.3
fwAVG=4.09
sdW=23.9
fwW=4.07
sdS=25.1
fwS=4.05
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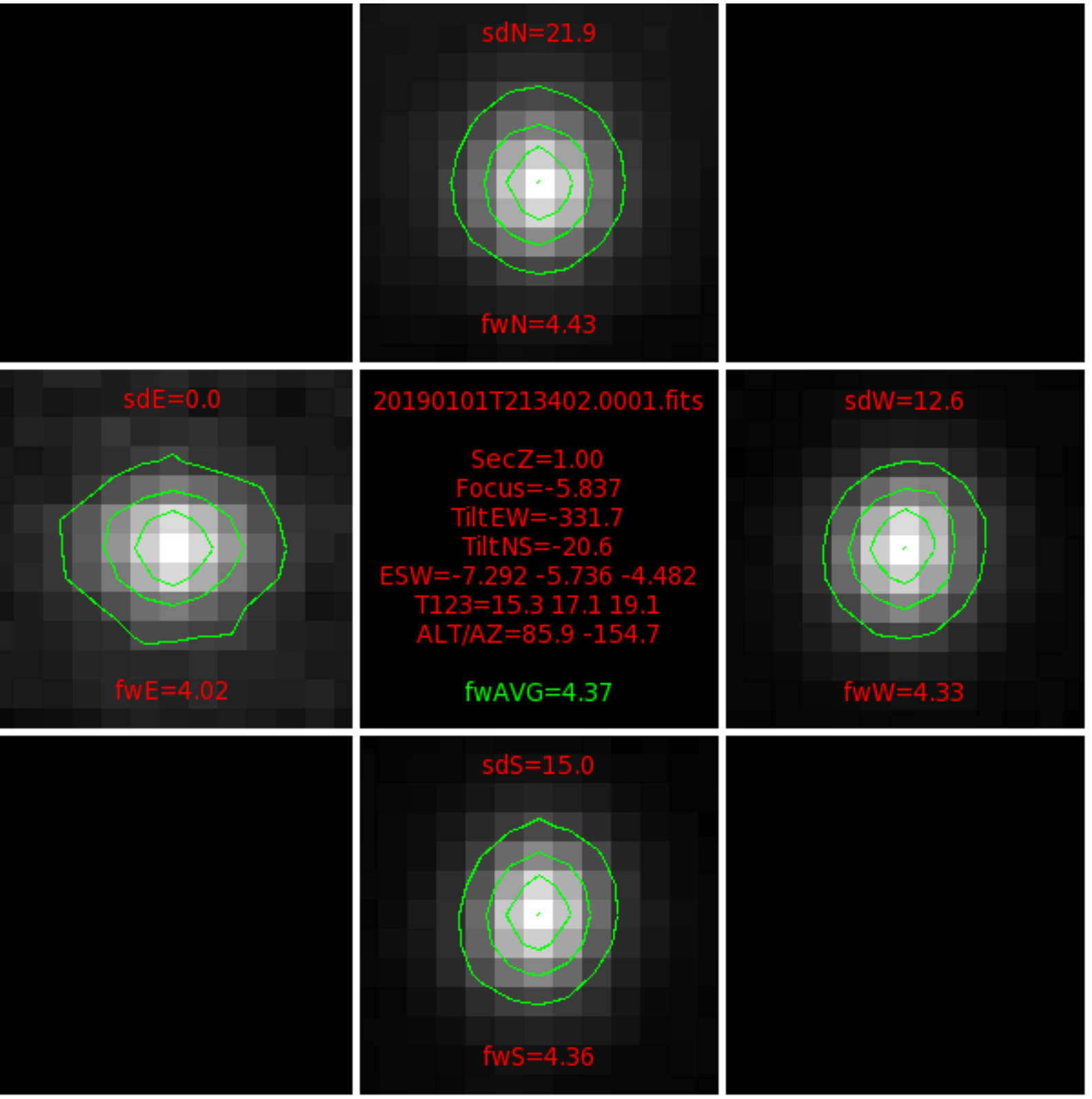
sdN=21.9
fwN=4.43
sdE=0.0
fwE=4.02
20190101T213402.0001.fits
SecZ=1.00
Focus=-5.837
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.292 -5.736 -4.482
T123=15.3 17.1 19.1
ALT/AZ=85.9 -154.7
fwAVG=4.37
sdW=12.6
fwW=4.33
sdS=15.0
fwS=4.36
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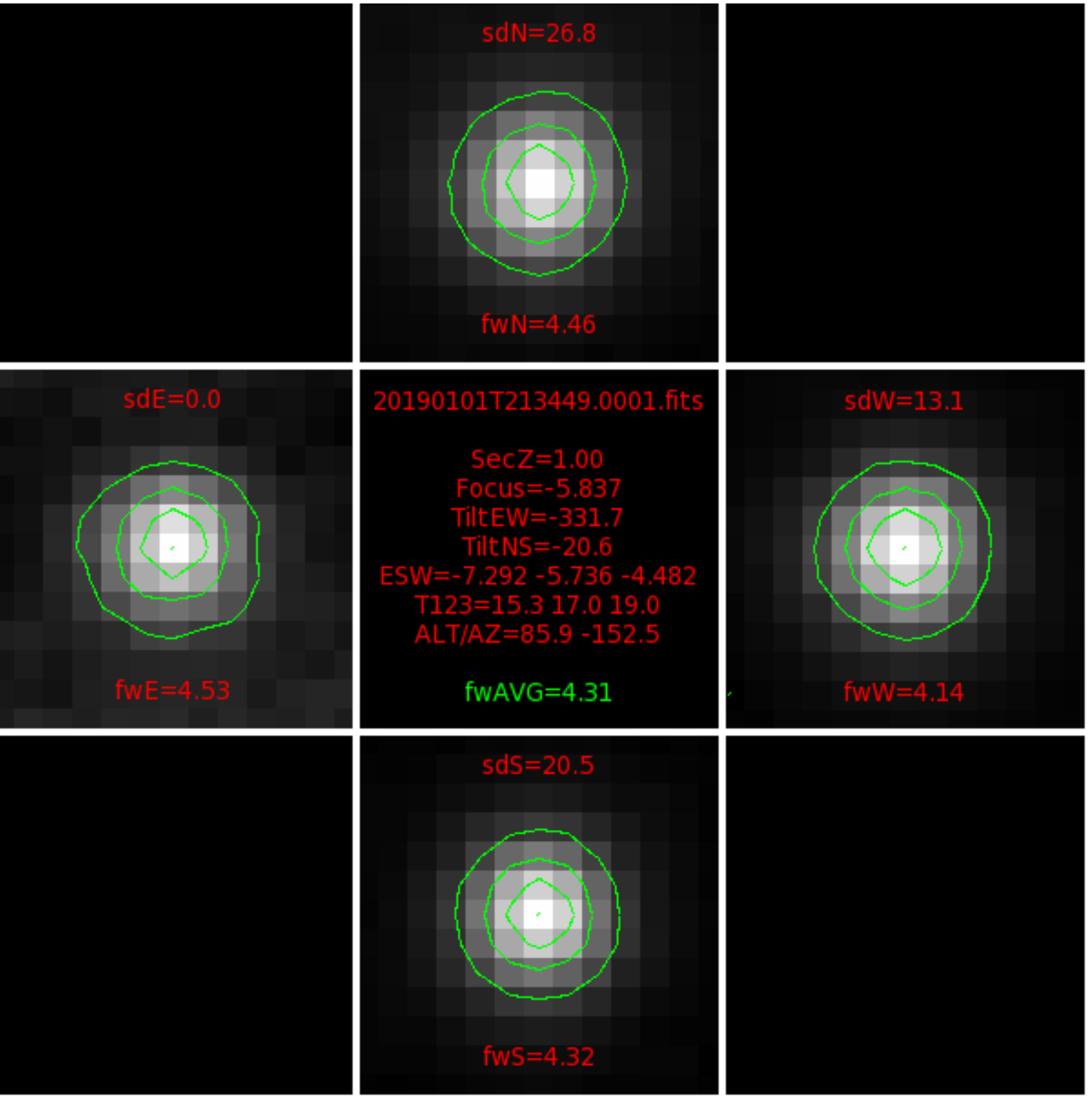
sdN=26.8
fwN=4.46
sdE=0.0
fwE=4.53
20190101T213449.0001.fits
SecZ=1.00
Focus=-5.837
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.292 -5.736 -4.482
T123=15.3 17.0 19.0
ALT/AZ=85.9 -152.5
fwAVG=4.31
sdW=13.1
fwW=4.14
sdS=20.5
fwS=4.32
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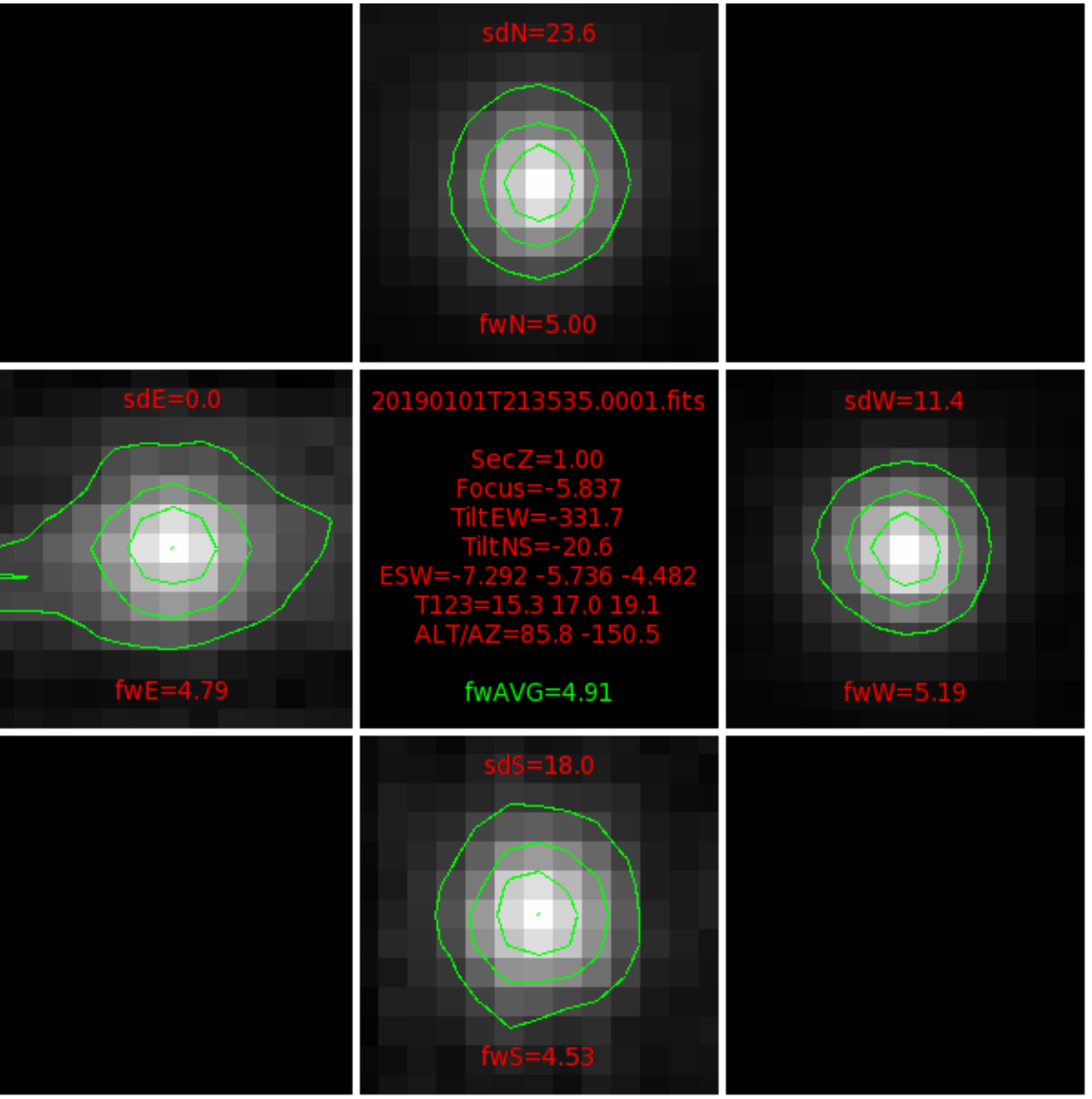
sdN=23.6
fwN=5.00
sdE=0.0
fwE=4.79
20190101T213535.0001.fits
SecZ=1.00
Focus=-5.837
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.292 -5.736 -4.482
T123=15.3 17.0 19.1
ALT/AZ=85.8 -150.5
fwAVG=4.91
sdW=11.4
fwW=5.19
sdS=18.0
fwS=4.53
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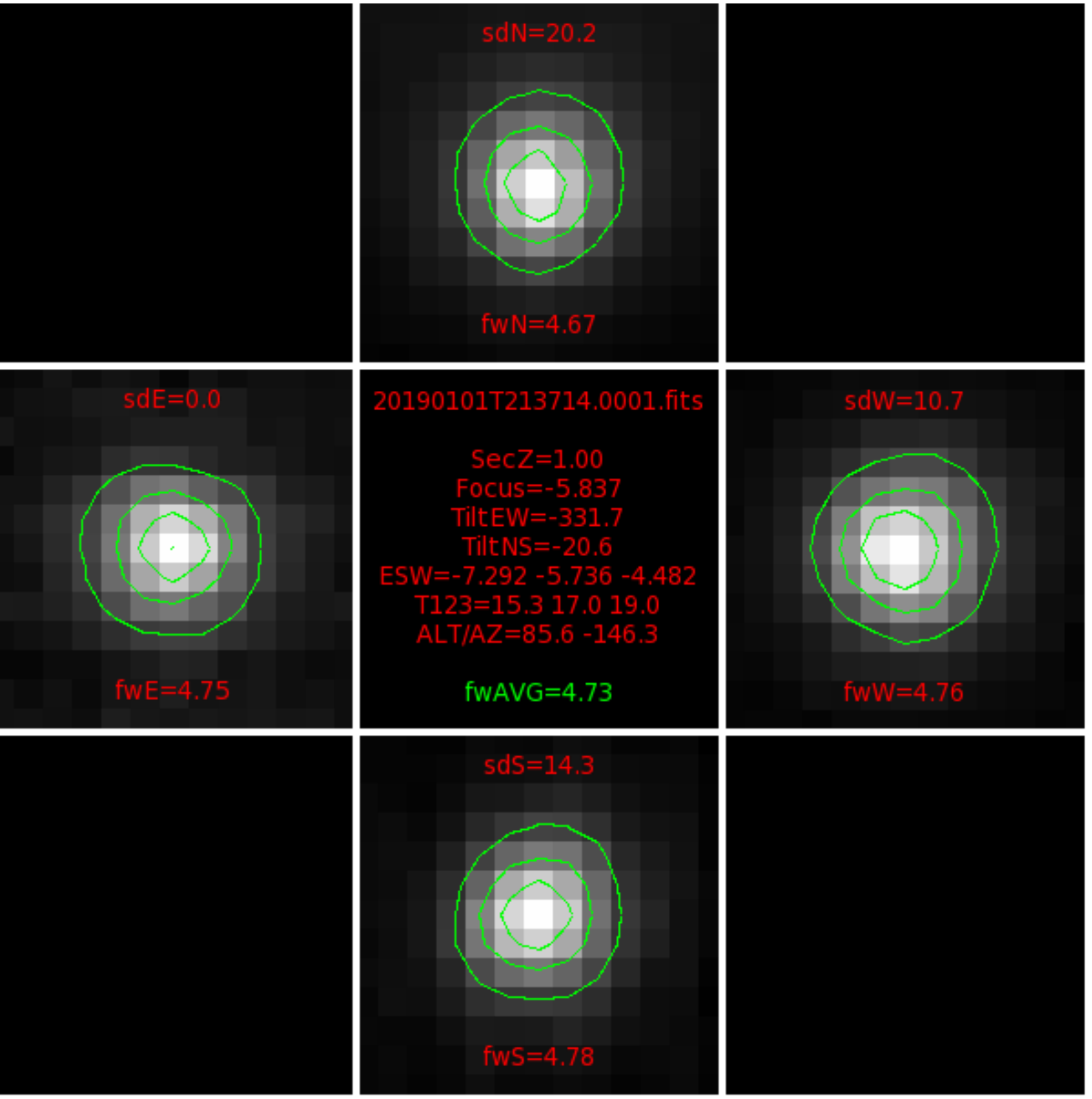
sdN=20.2
fwN=4.67
sdE=0.0
fwE=4.75
20190101T213714.0001.fits
SecZ=1.00
Focus=-5.837
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.292 -5.736 -4.482
T123=15.3 17.0 19.0
ALT/AZ=85.6 -146.3
fwAVG=4.73
sdW=10.7
fwW=4.76
sdS=14.3
fwS=4.78
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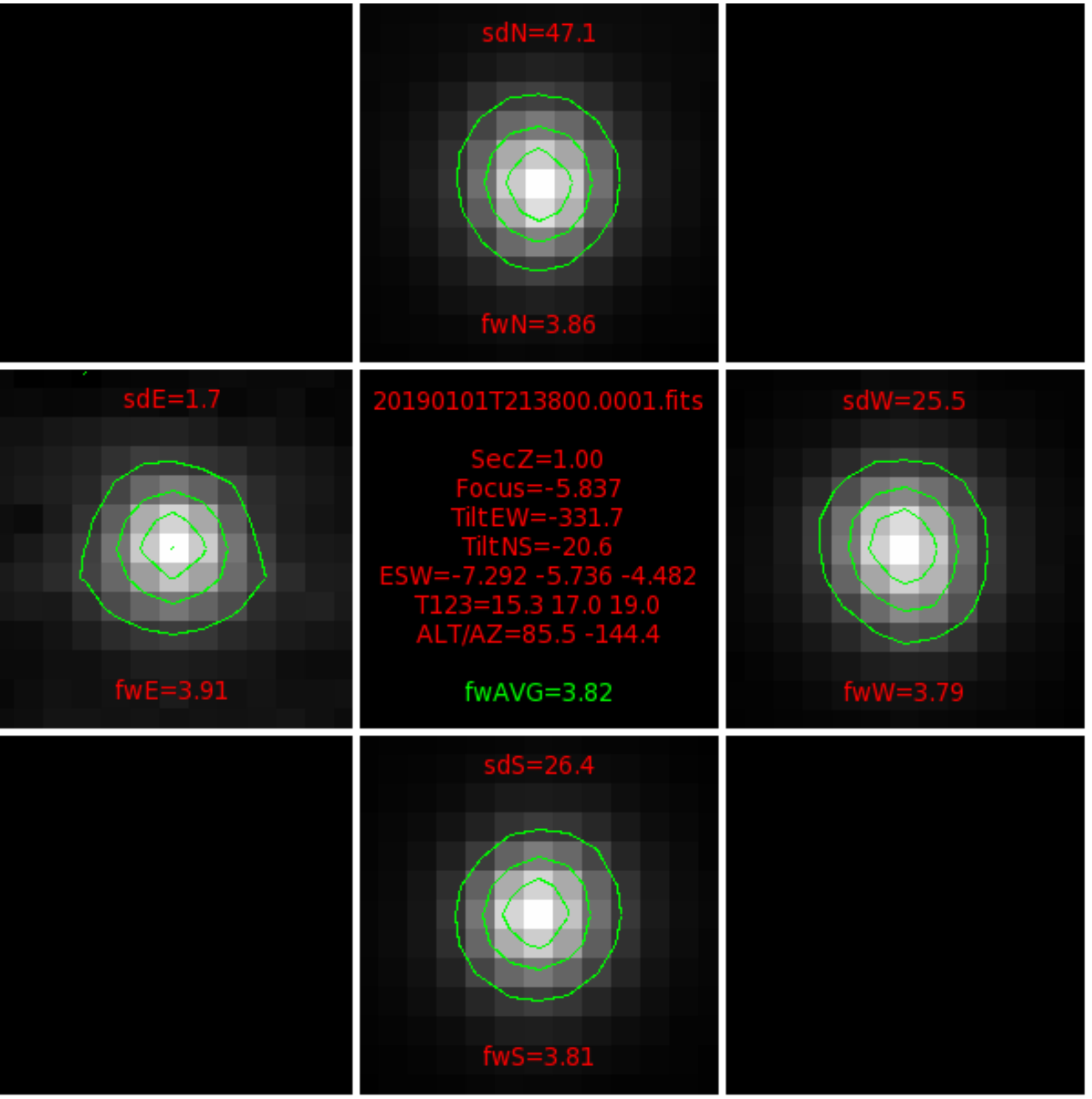
sdN=47.1
fwN=3.86
sdE=1.7
fwE=3.91
20190101T213800.0001.fits
SecZ=1.00
Focus=-5.837
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.292 -5.736 -4.482
T123=15.3 17.0 19.0
ALT/AZ=85.5 -144.4
fwAVG=3.82
sdW=25.5
fwW=3.79
sdS=26.4
fwS=3.81
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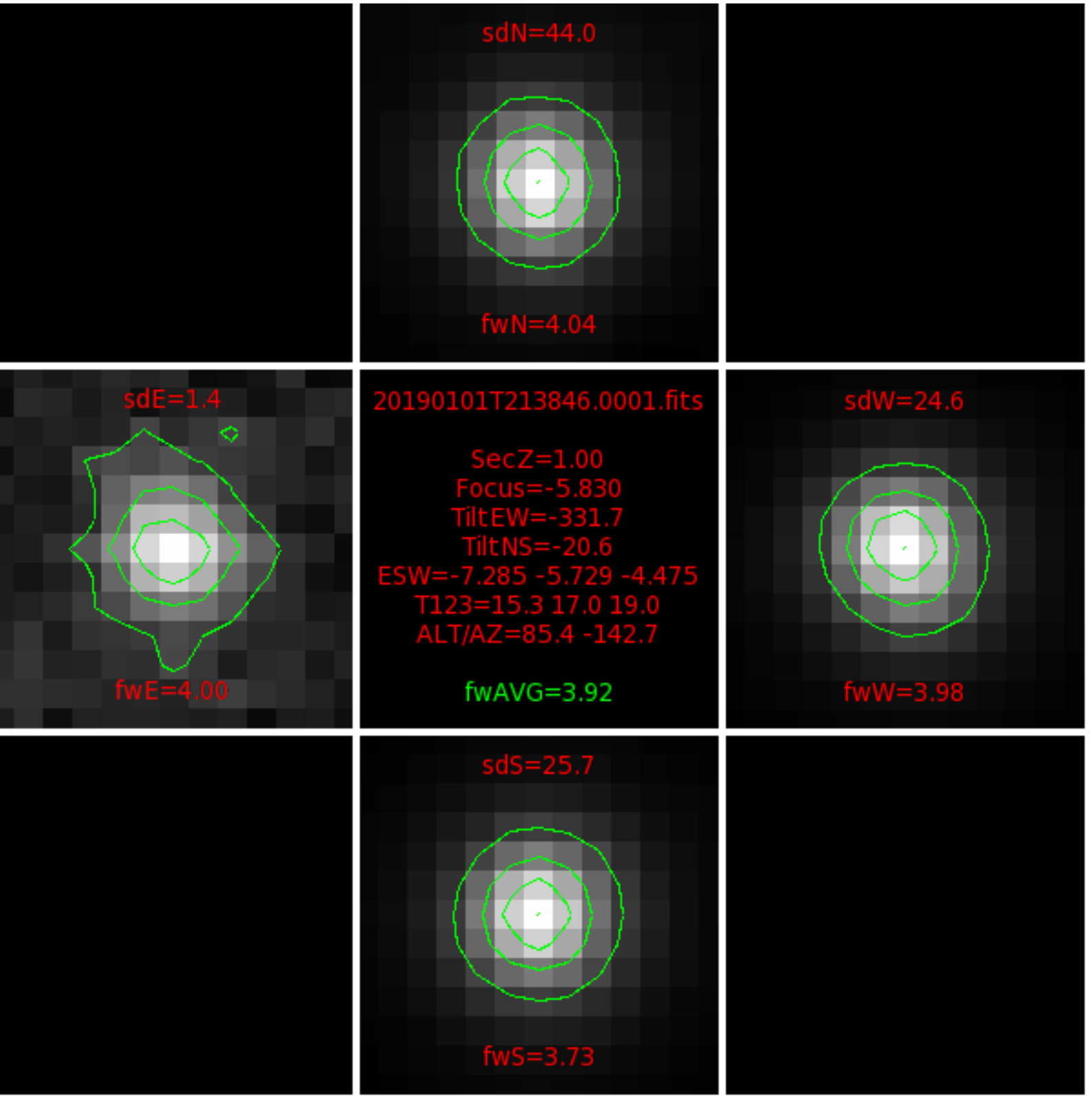
sdN=44.0
fwN=4.04
sdE=1.4
fwE=4.00
20190101T213846.0001.fits
SecZ=1.00
Focus=-5.830
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.285 -5.729 -4.475
T123=15.3 17.0 19.0
ALT/AZ=85.4 -142.7
fwAVG=3.92
sdW=24.6
fwW=3.98
sdS=25.7
fwS=3.73
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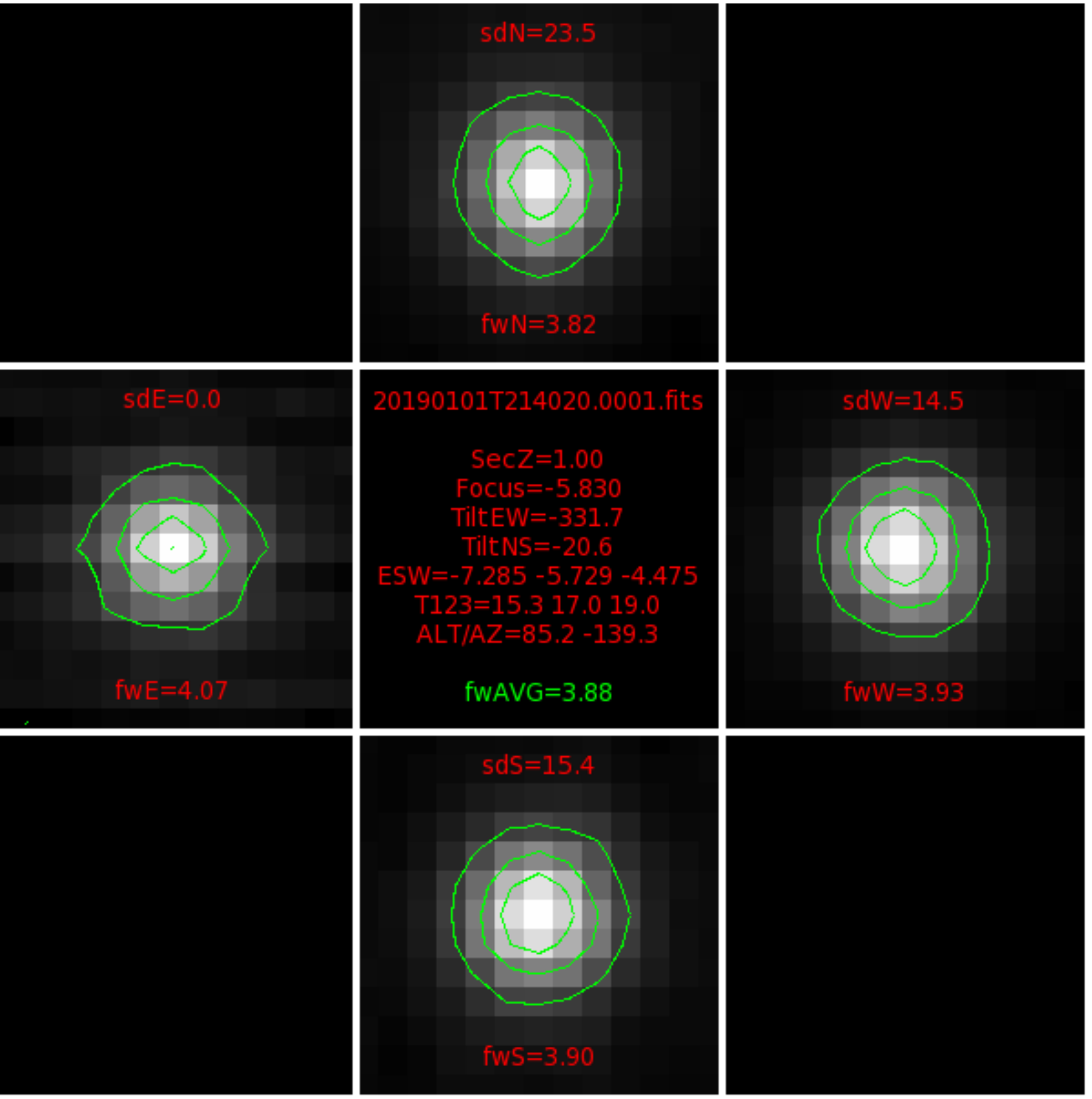
sdN=23.5
fwN=3.82
sdE=0.0
fwE=4.07
20190101T214020.0001.fits
SecZ=1.00
Focus=-5.830
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.285 -5.729 -4.475
T123=15.3 17.0 19.0
ALT/AZ=85.2 -139.3
fwAVG=3.88
sdW=14.5
fwW=3.93
sdS=15.4
fwS=3.90
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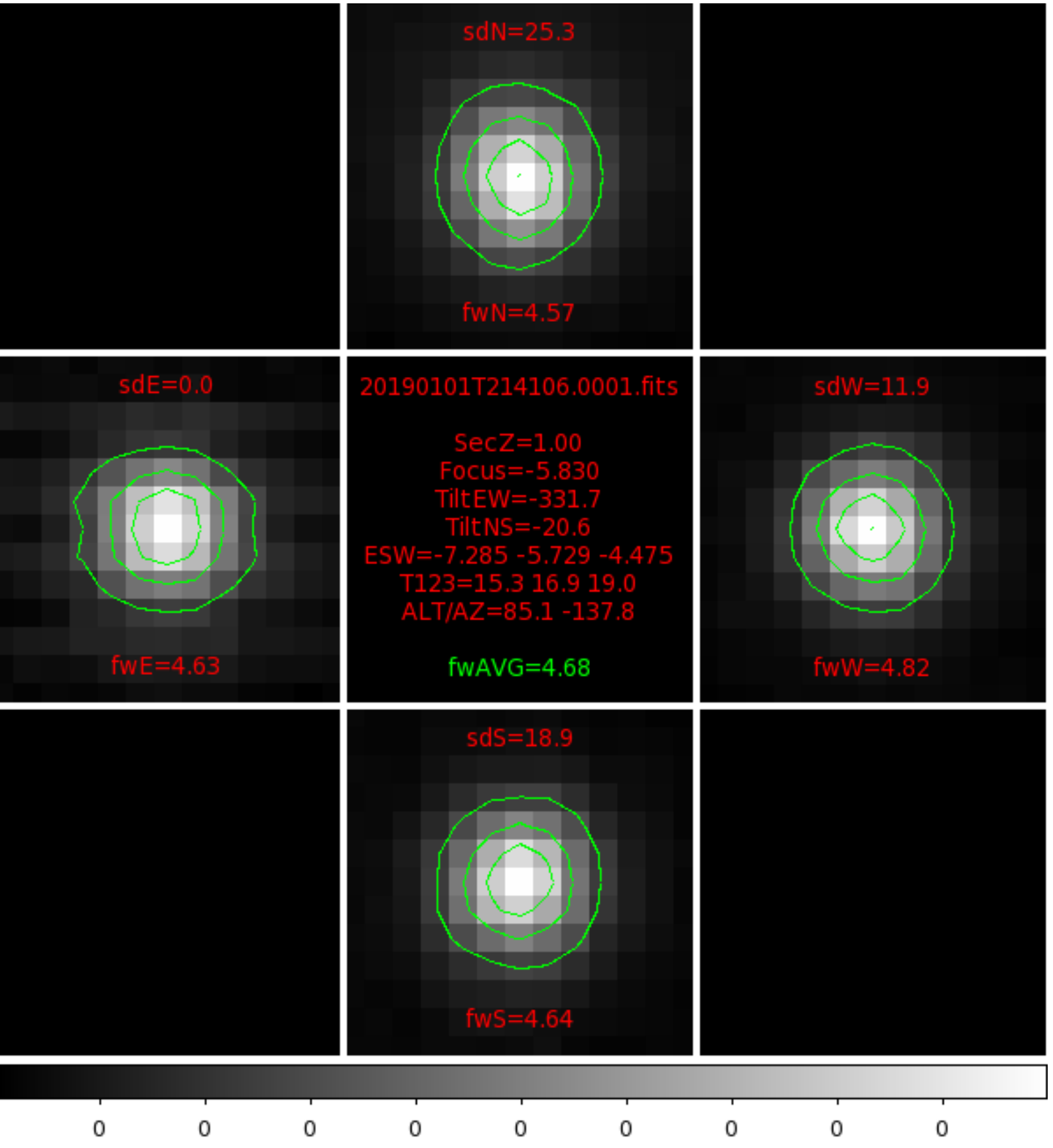
sdN=25.3
fwN=4.57
sdE=0.0
fwE=4.63
20190101T214106.0001.fits
SecZ=1.00
Focus=-5.830
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.285 -5.729 -4.475
T123=15.3 16.9 19.0
ALT/AZ=85.1 -137.8
fwAVG=4.68
sdW=11.9
fwW=4.82
sdS=18.9
fwS=4.64
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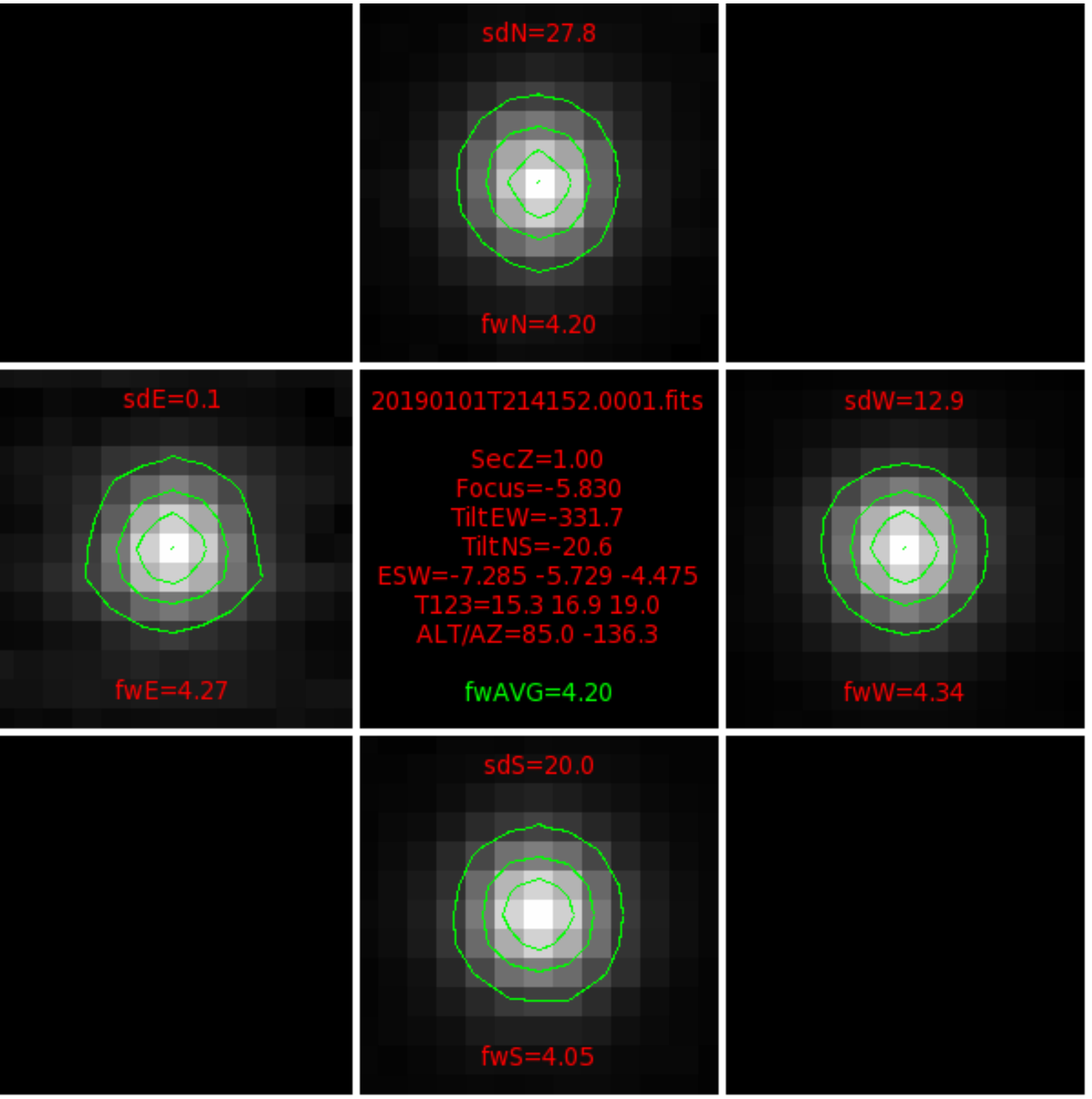
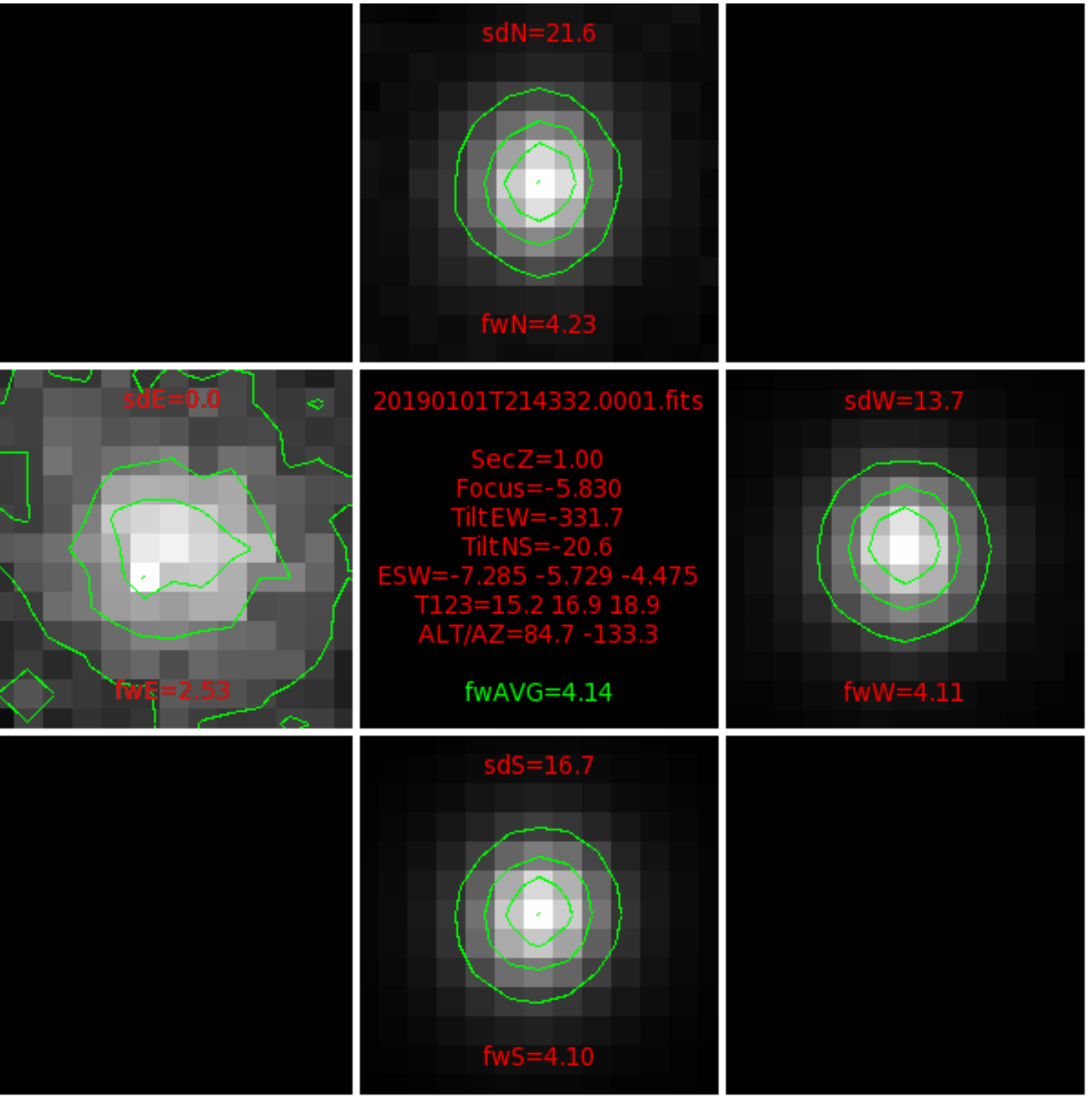

sdN=27.8
fwN=4.20
sdE=0.1
fwE=4.27
20190101T214152.0001.fits
SecZ=1.00
Focus=-5.830
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.285 -5.729 -4.475
T123=15.3 16.9 19.0
ALT/AZ=85.0 -136.3
fwAVG=4.20
sdW=12.9
fwW=4.34
sdS=20.0
fwS=4.05
0 0 0 0 0 0 0 0 0


sdN=21.6
fwN=4.23
sdE=0.0
fwE=2.53
20190101T214332.0001.fits
SecZ=1.00
Focus=-5.830
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.285 -5.729 -4.475
T123=15.2 16.9 18.9
ALT/AZ=84.7 -133.3
fwAVG=4.14
sdW=13.7
fwW=4.11
sdS=16.7
fwS=4.10
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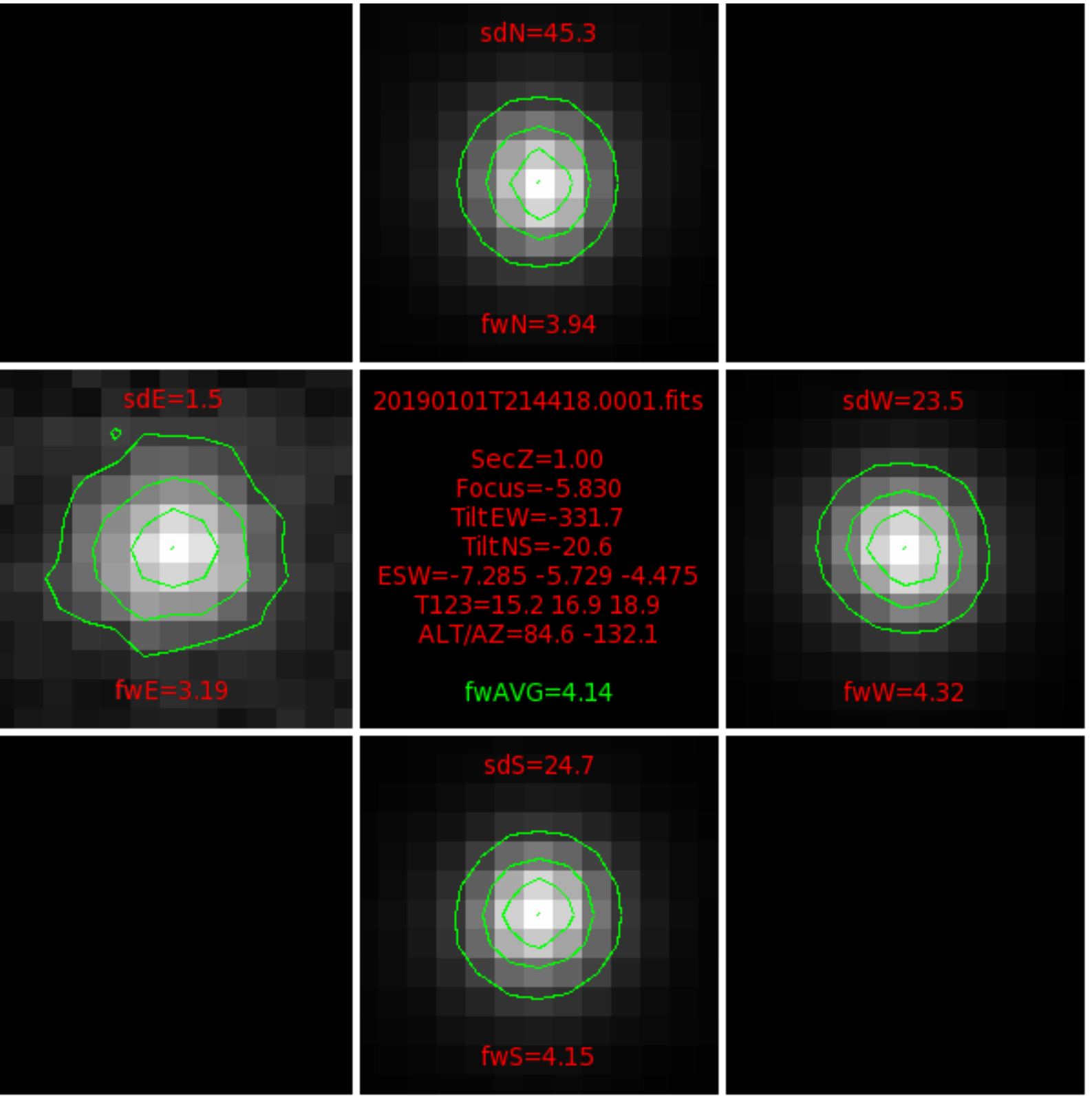
sdN=45.3
fwN=3.94
sdE=1.5
fwE=3.19
20190101T214418.0001.fits
SecZ=1.00
Focus=-5.830
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.285 -5.729 -4.475
T123=15.2 16.9 18.9
ALT/AZ=84.6 -132.1
fwAVG=4.14
sdW=23.5
fwW=4.32
sdS=24.7
fwS=4.15
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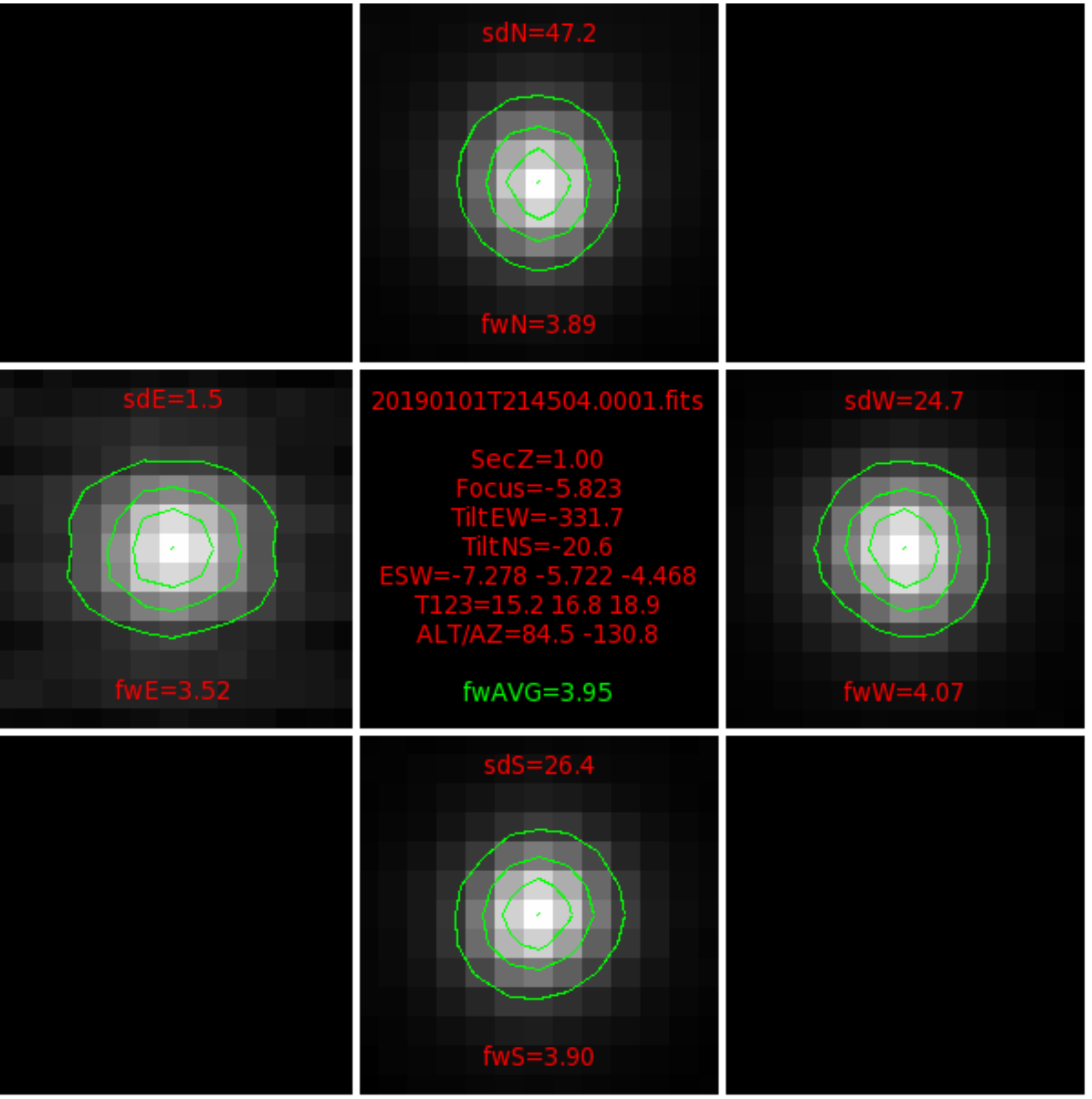
sdN=47.2
fwN=3.89
sdE=1.5
fwE=3.52
20190101T214504.0001.fits
SecZ=1.00
Focus=-5.823
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.278 -5.722 -4.468
T123=15.2 16.8 18.9
ALT/AZ=84.5 -130.8
fwAVG=3.95
sdW=24.7
fwW=4.07
sdS=26.4
fwS=3.90
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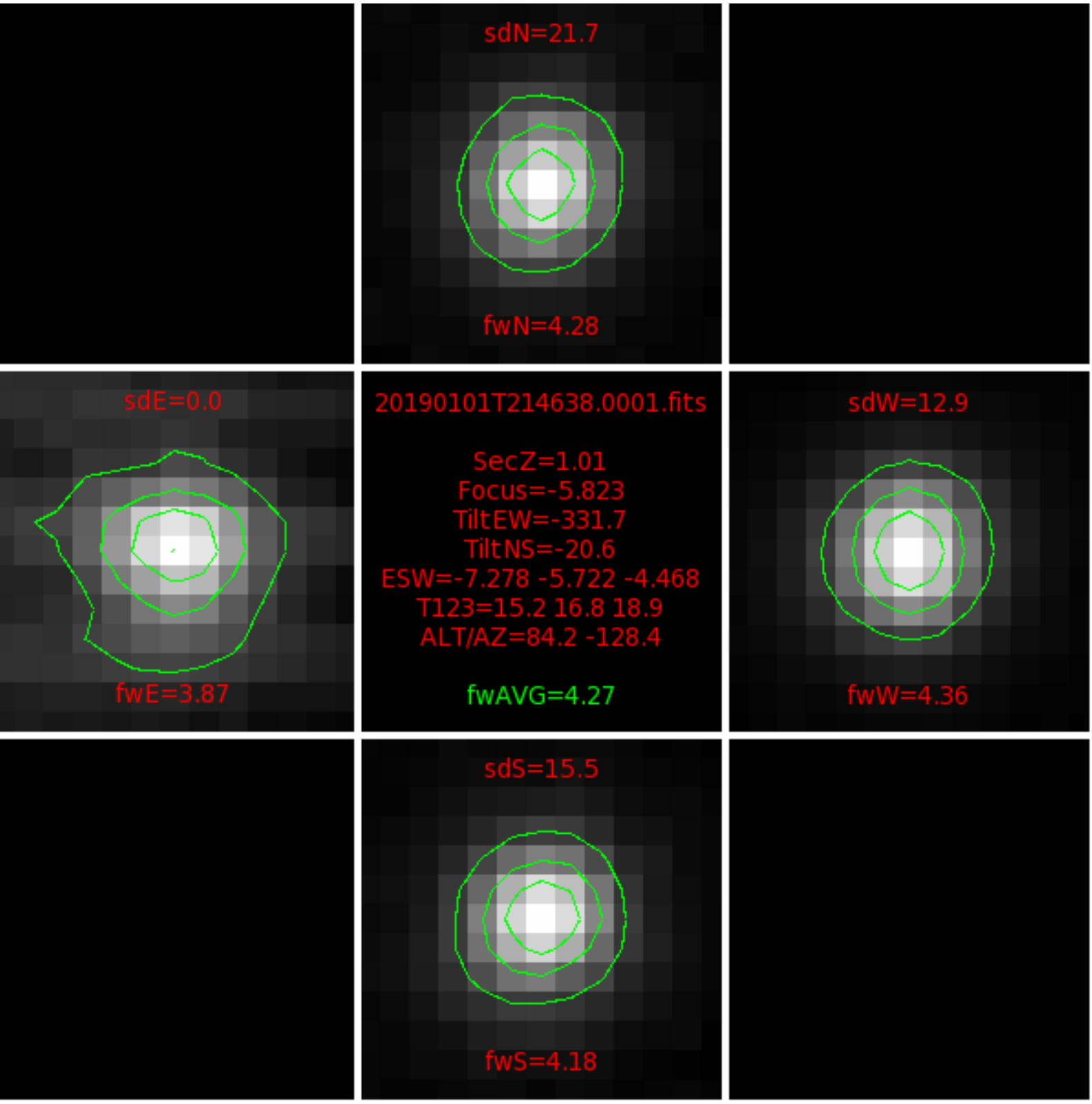
sdN=21.7
fwN=4.28
sdE=0.0
fwE=3.87
20190101T214638.0001.fits
SecZ=1.01
Focus=-5.823
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.278 -5.722 -4.468
T123=15.2 16.8 18.9
ALT/AZ=84.2 -128.4
fwAVG=4.27
sdW=12.9
fwW=4.36
sdS=15.5
fwS=4.18
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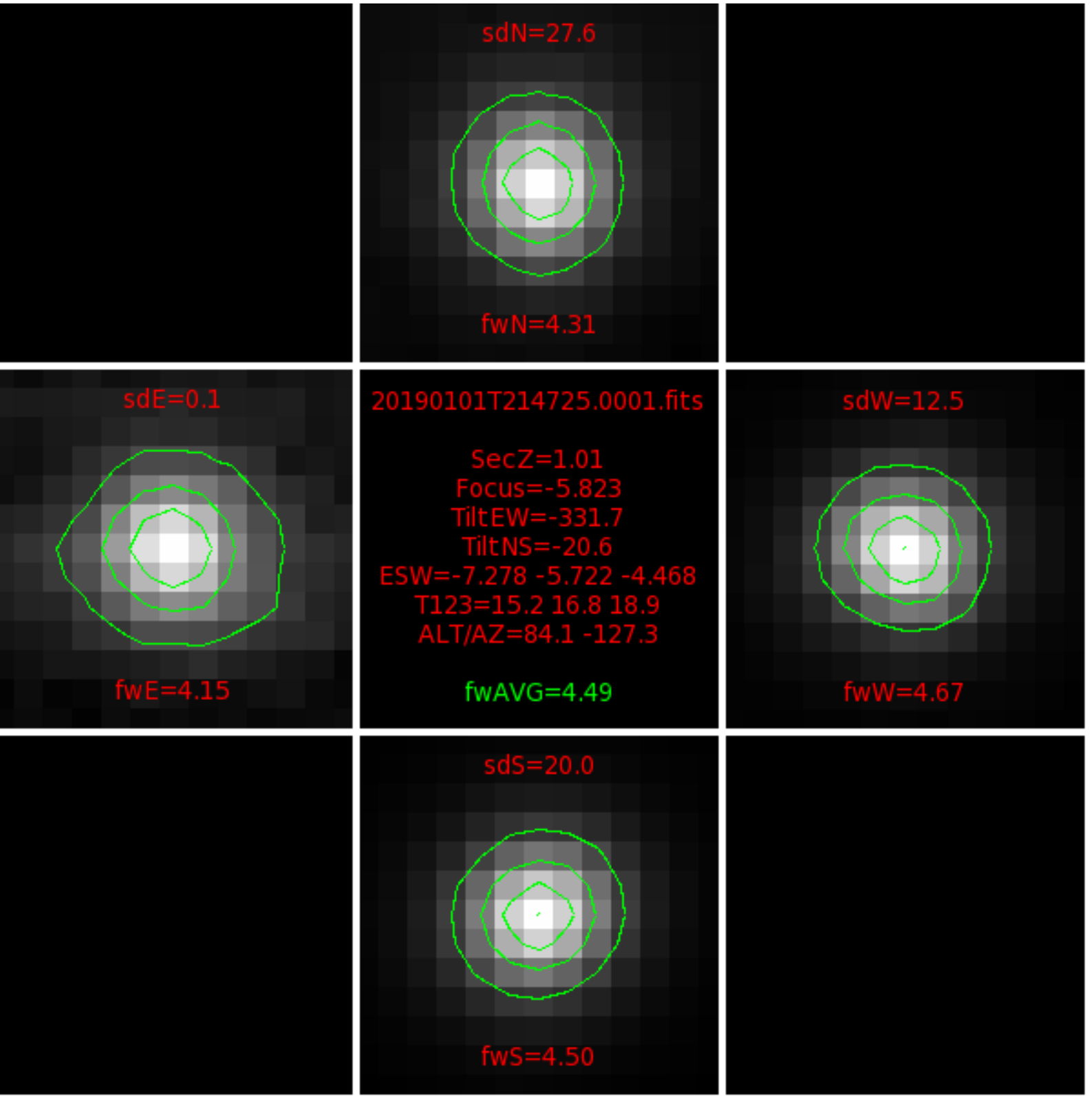
sdN=27.6
fwN=4.31
sdE=0.1
fwE=4.15
20190101T214725.0001.fits
SecZ=1.01
Focus=-5.823
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.278 -5.722 -4.468
T123=15.2 16.8 18.9
ALT/AZ=84.1 -127.3
fwAVG=4.49
sdW=12.5
fwW=4.67
sdS=20.0
fwS=4.50
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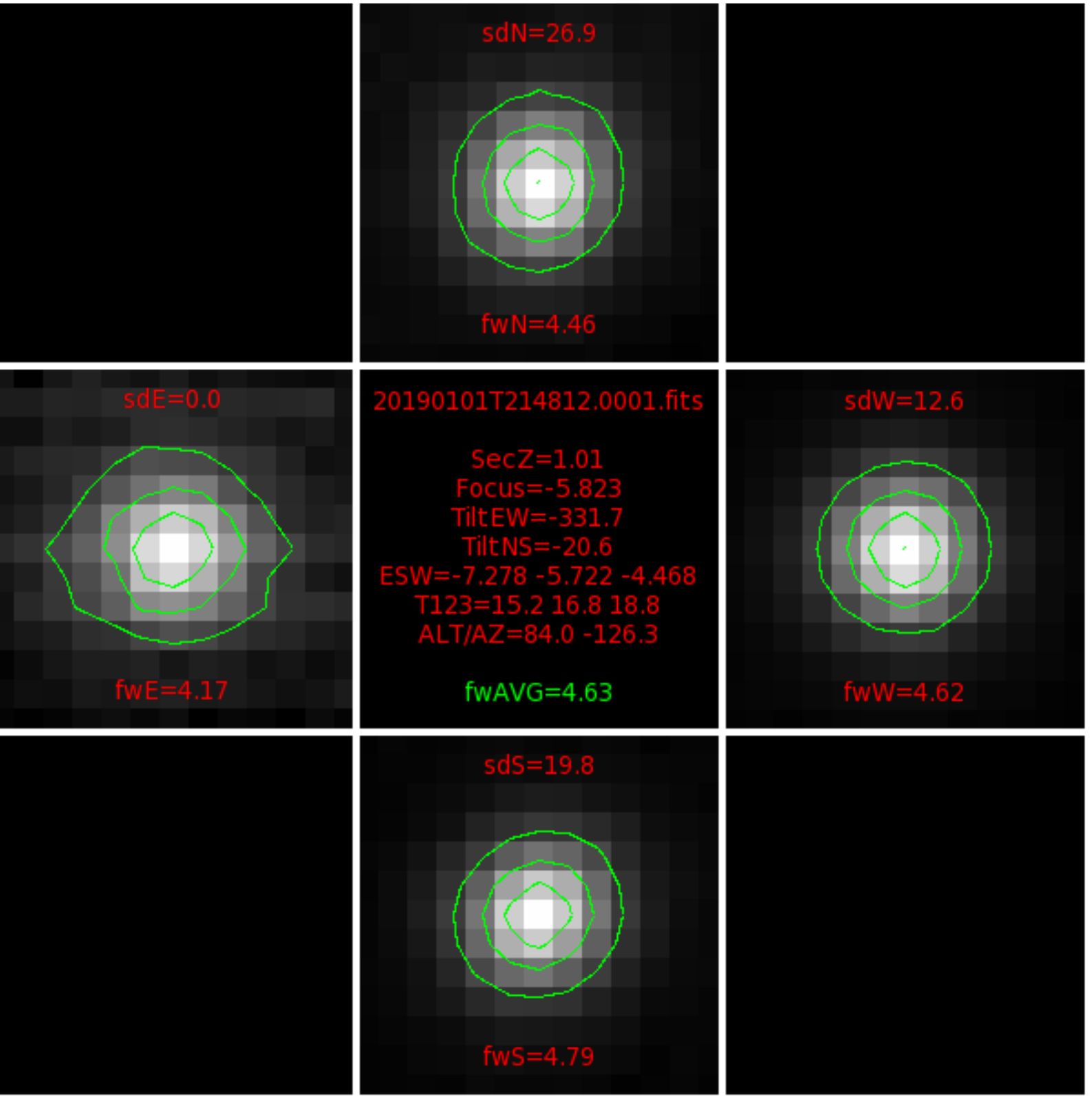
sdN=26.9
fwN=4.46
sdE=0.0
fwE=4.17
20190101T214812.0001.fits
SecZ=1.01
Focus=-5.823
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.278 -5.722 -4.468
T123=15.2 16.8 18.8
ALT/AZ=84.0 -126.3
fwAVG=4.63
sdW=12.6
fwW=4.62
sdS=19.8
fwS=4.79
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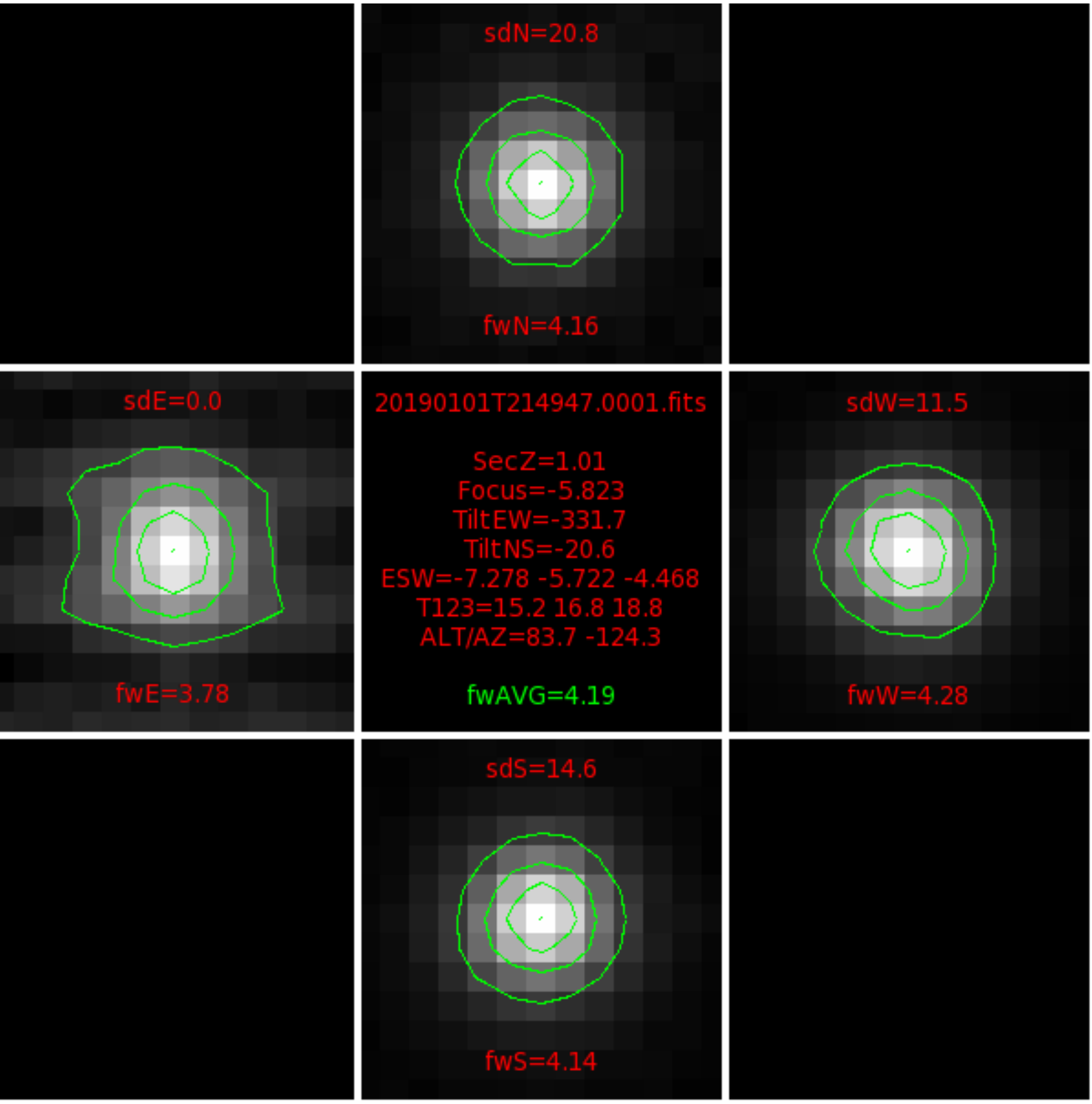
sdN=20.8
fwN=4.16
sdE=0.0
fwE=3.78
20190101T214947.0001.fits
SecZ=1.01
Focus=-5.823
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.278 -5.722 -4.468
T123=15.2 16.8 18.8
ALT/AZ=83.7 -124.3
fwAVG=4.19
sdW=11.5
fwW=4.28
sdS=14.6
fwS=4.14
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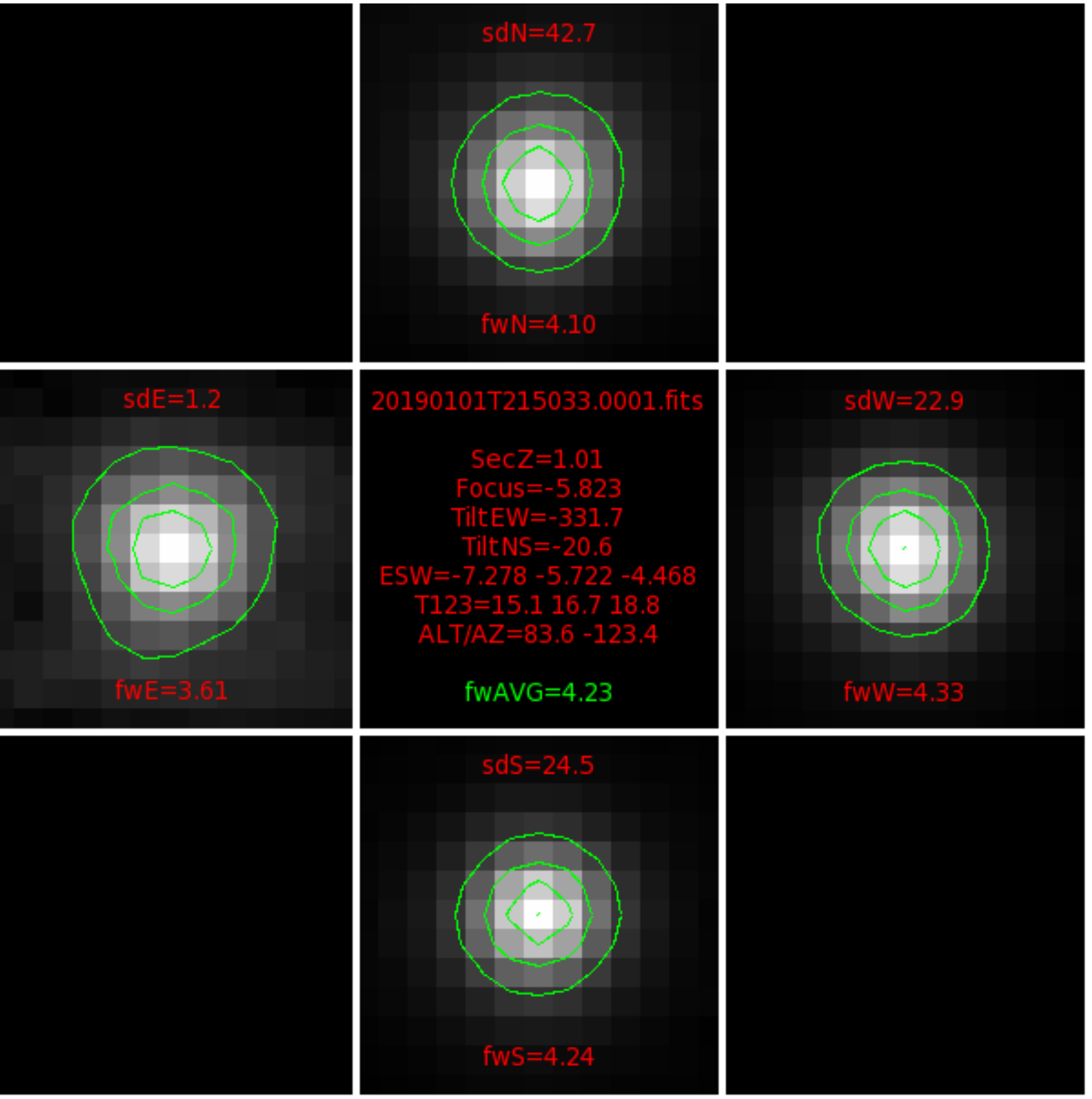
sdN=42.7
fwN=4.10
sdE=1.2
fwE=3.61
20190101T215033.0001.fits
SecZ=1.01
Focus=-5.823
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.278 -5.722 -4.468
T123=15.1 16.7 18.8
ALT/AZ=83.6 -123.4
fwAVG=4.23
sdW=22.9
fwW=4.33
sdS=24.5
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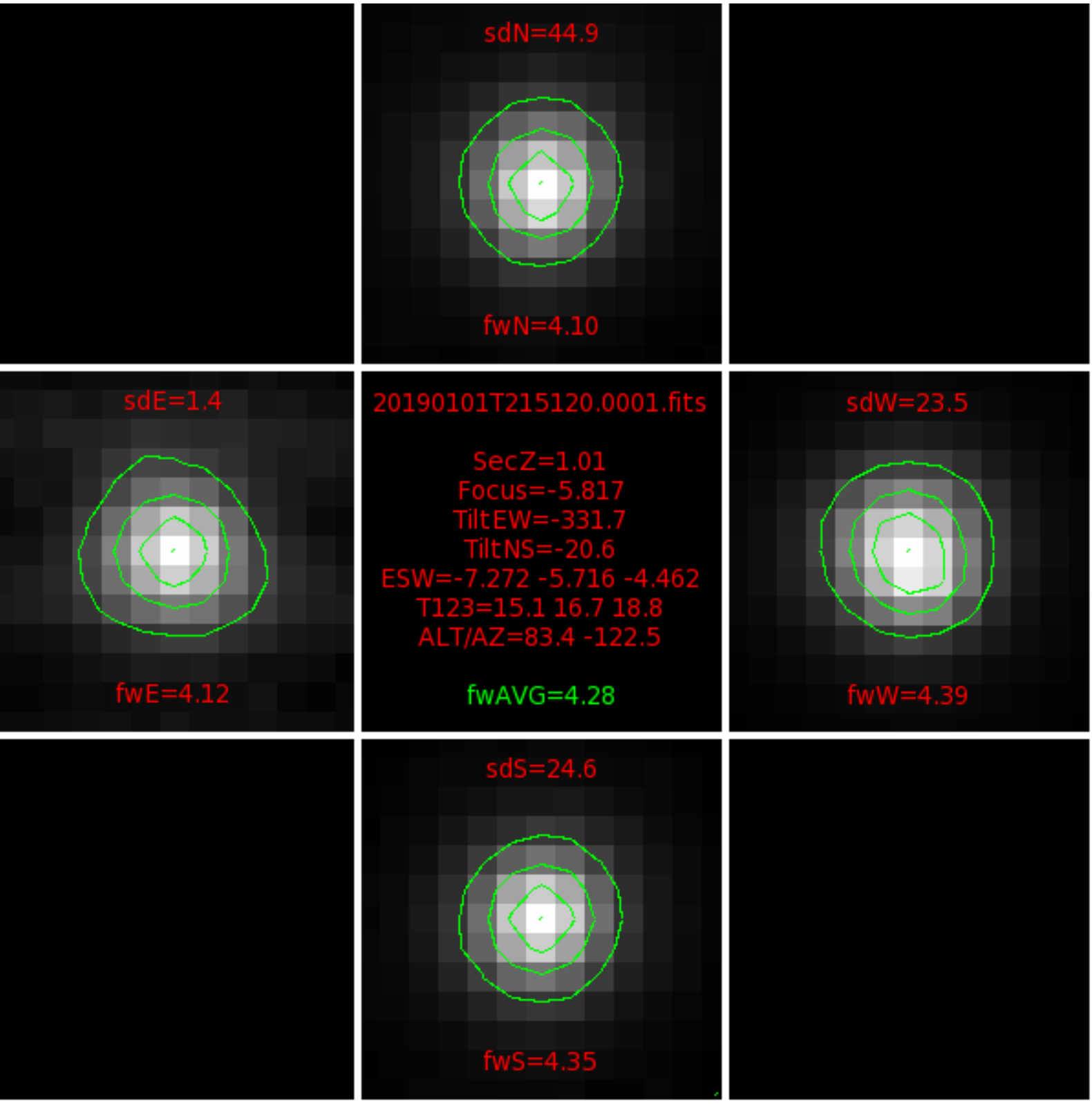
sdN=44.9
fwN=4.10
sdE=1.4
fwE=4.12
20190101T215120.0001.fits
SecZ=1.01
Focus=-5.817
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.272 -5.716 -4.462
T123=15.1 16.7 18.8
ALT/AZ=83.4 -122.5
fwAVG=4.28
sdW=23.5
fwW=4.39
sdS=24.6
fwS=4.35
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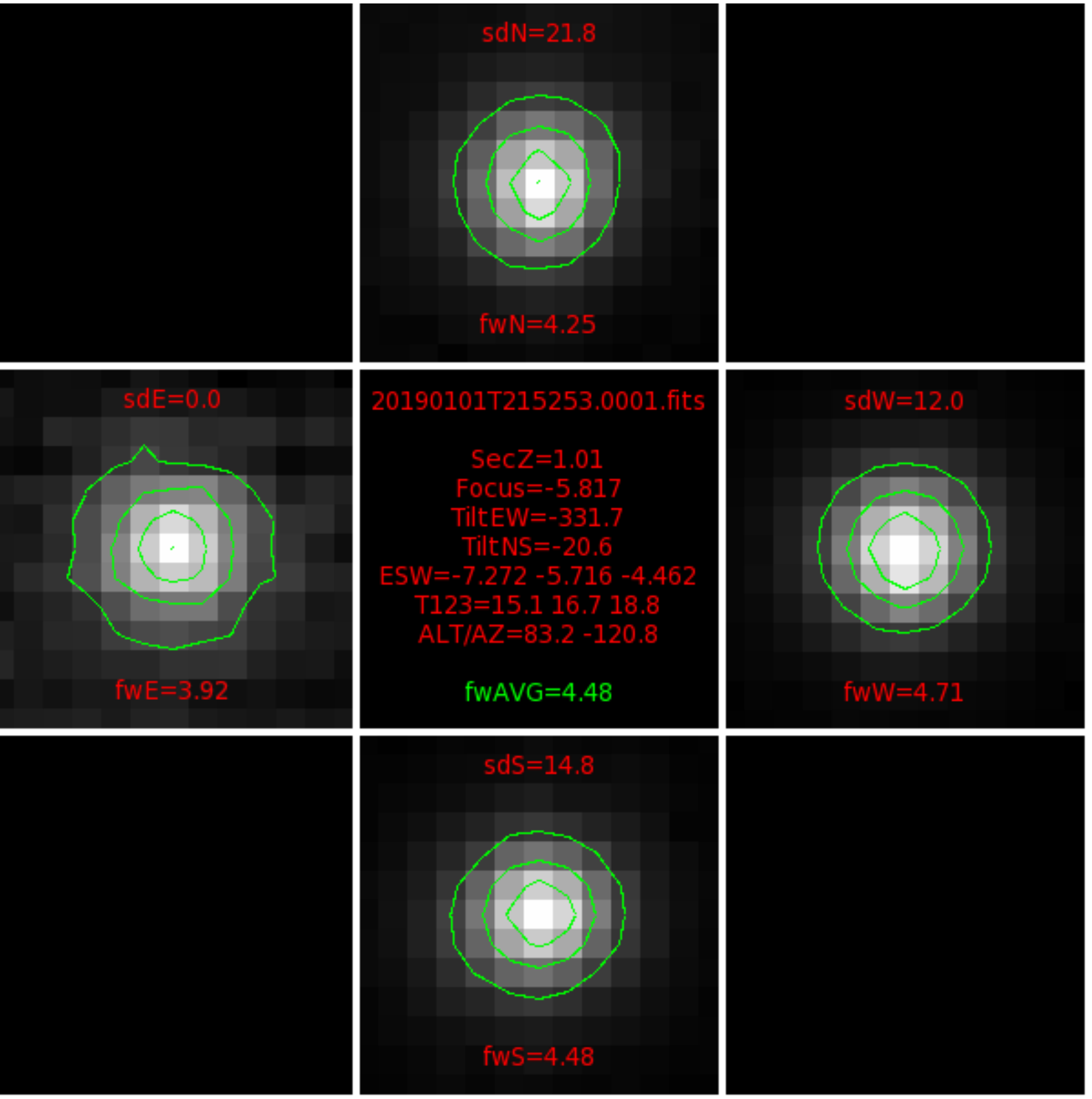
sdN=21.8
fwN=4.25
sdE=0.0
fwE=3.92
20190101T215253.0001.fits
SecZ=1.01
Focus=-5.817
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.272 -5.716 -4.462
T123=15.1 16.7 18.8
ALT/AZ=83.2 -120.8
fwAVG=4.48
sdW=12.0
fwW=4.71
sdS=14.8
fwS=4.48
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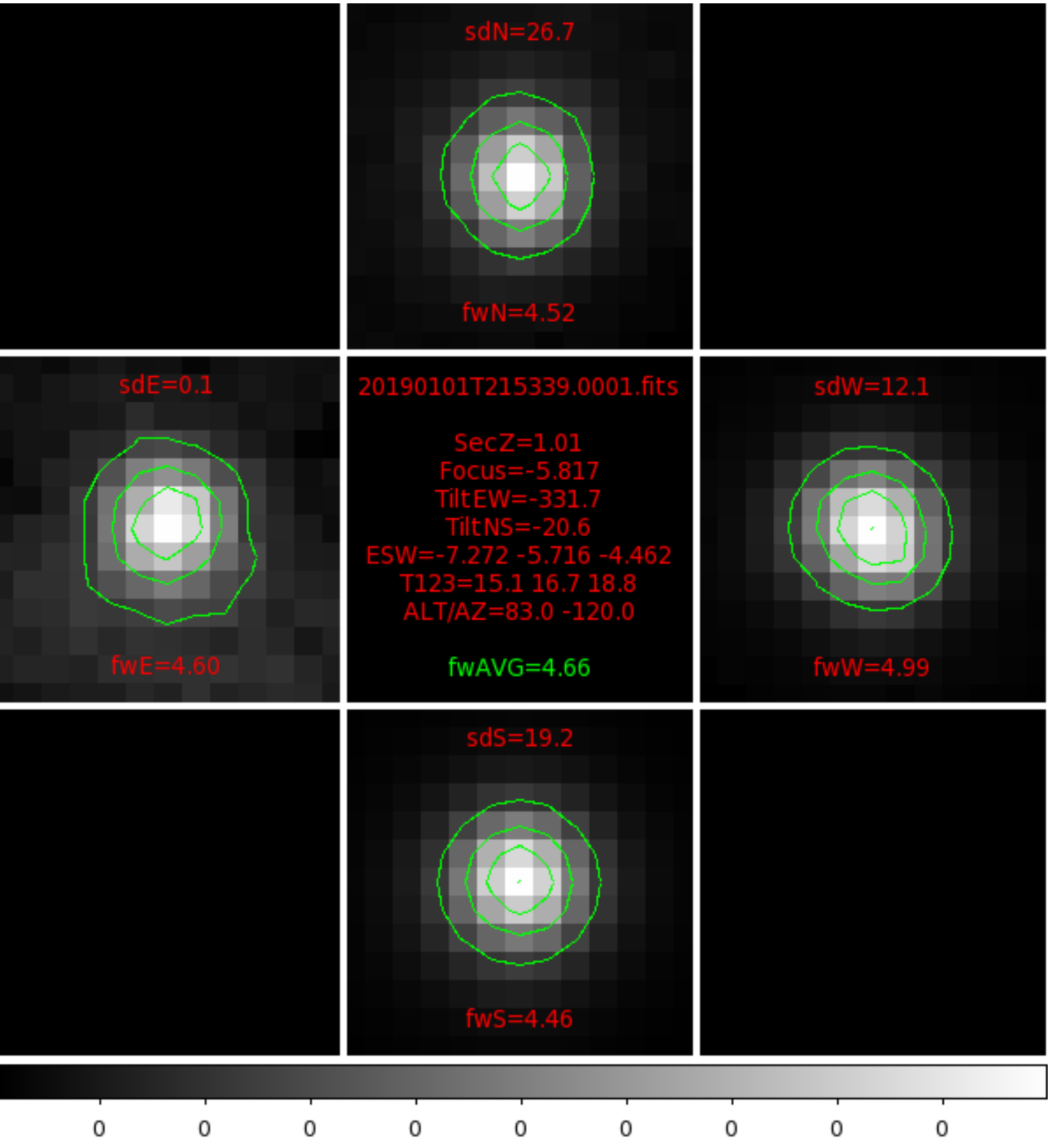
sdN=26.7
fwN=4.52
sdE=0.1
fwE=4.60
20190101T215339.0001.fits
SecZ=1.01
Focus=-5.817
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.272 -5.716 -4.462
T123=15.1 16.7 18.8
ALT/AZ=83.0 -120.0
fwAVG=4.66
sdW=12.1
fwW=4.99
sdS=19.2
fwS=4.46
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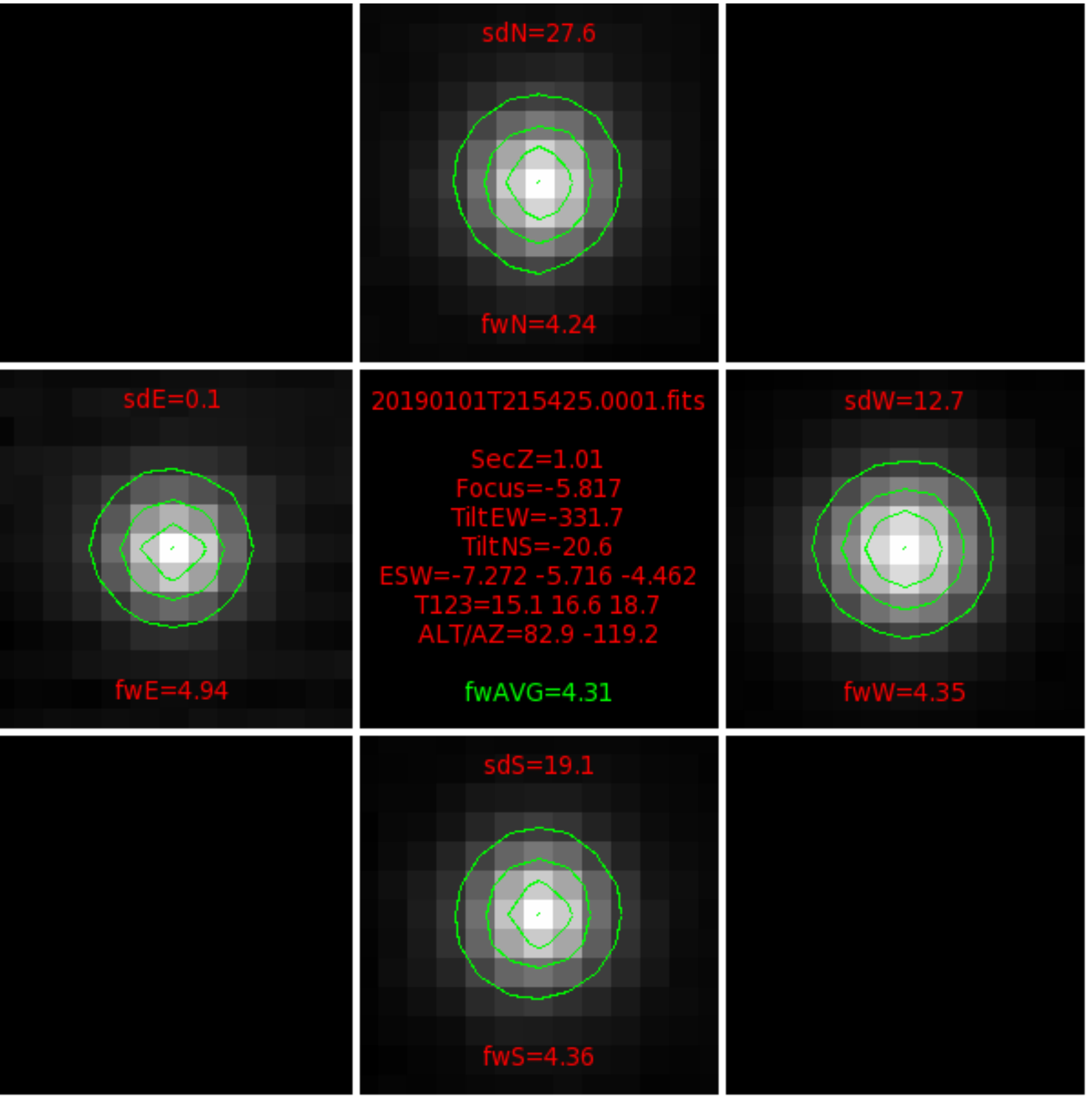
sdN=27.6
fwN=4.24
sdE=0.1
fwE=4.94
20190101T215425.0001.fits
SecZ=1.01
Focus=-5.817
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.272 -5.716 -4.462
T123=15.1 16.6 18.7
ALT/AZ=82.9 -119.2
fwAVG=4.31
sdW=12.7
fwW=4.35
sdS=19.1
fwS=4.36
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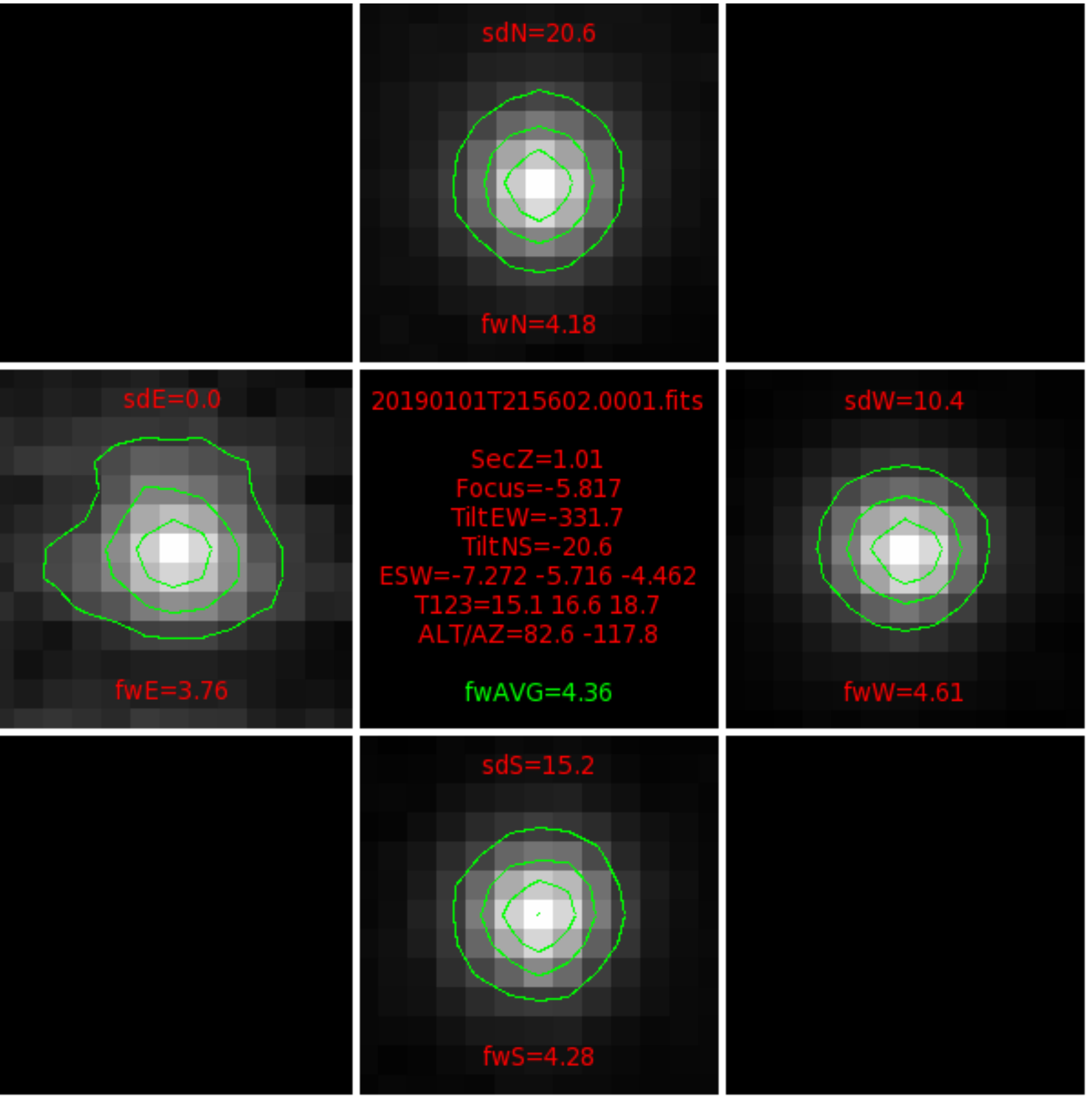
sdN=20.6
fwN=4.18
sdE=0.0
fwE=3.76
20190101T215602.0001.fits
SecZ=1.01
Focus=-5.817
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.272 -5.716 -4.462
T123=15.1 16.6 18.7
ALT/AZ=82.6 -117.8
fwAVG=4.36
sdW=10.4
fwW=4.61
sdS=15.2
fwS=4.28
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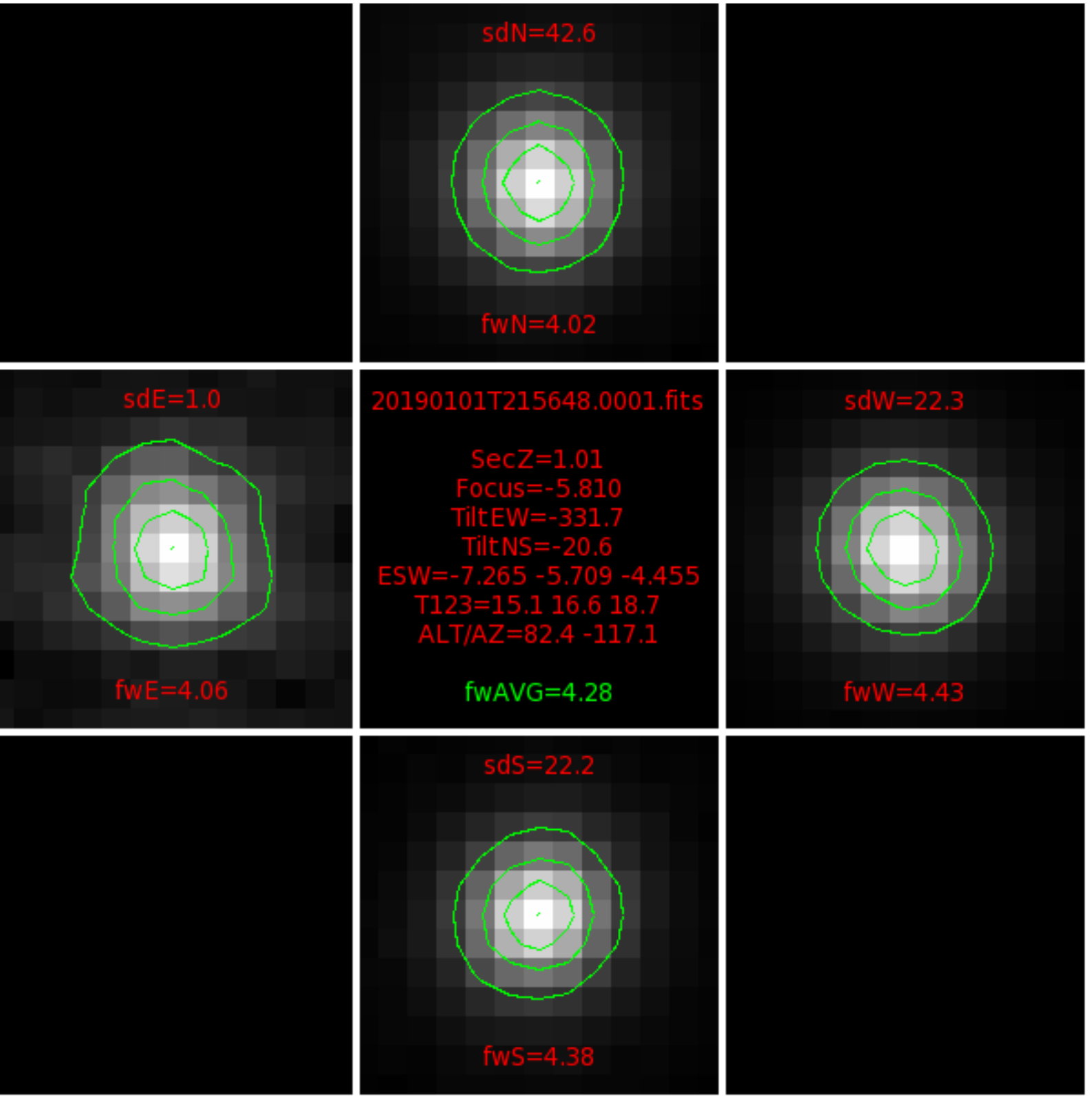
sdN=42.6
fwN=4.02
sdE=1.0
fwE=4.06
20190101T215648.0001.fits
SecZ=1.01
Focus=-5.810
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.265 -5.709 -4.455
T123=15.1 16.6 18.7
ALT/AZ=82.4 -117.1
fwAVG=4.28
sdW=22.3
fwW=4.43
sdS=22.2
fwS=4.38
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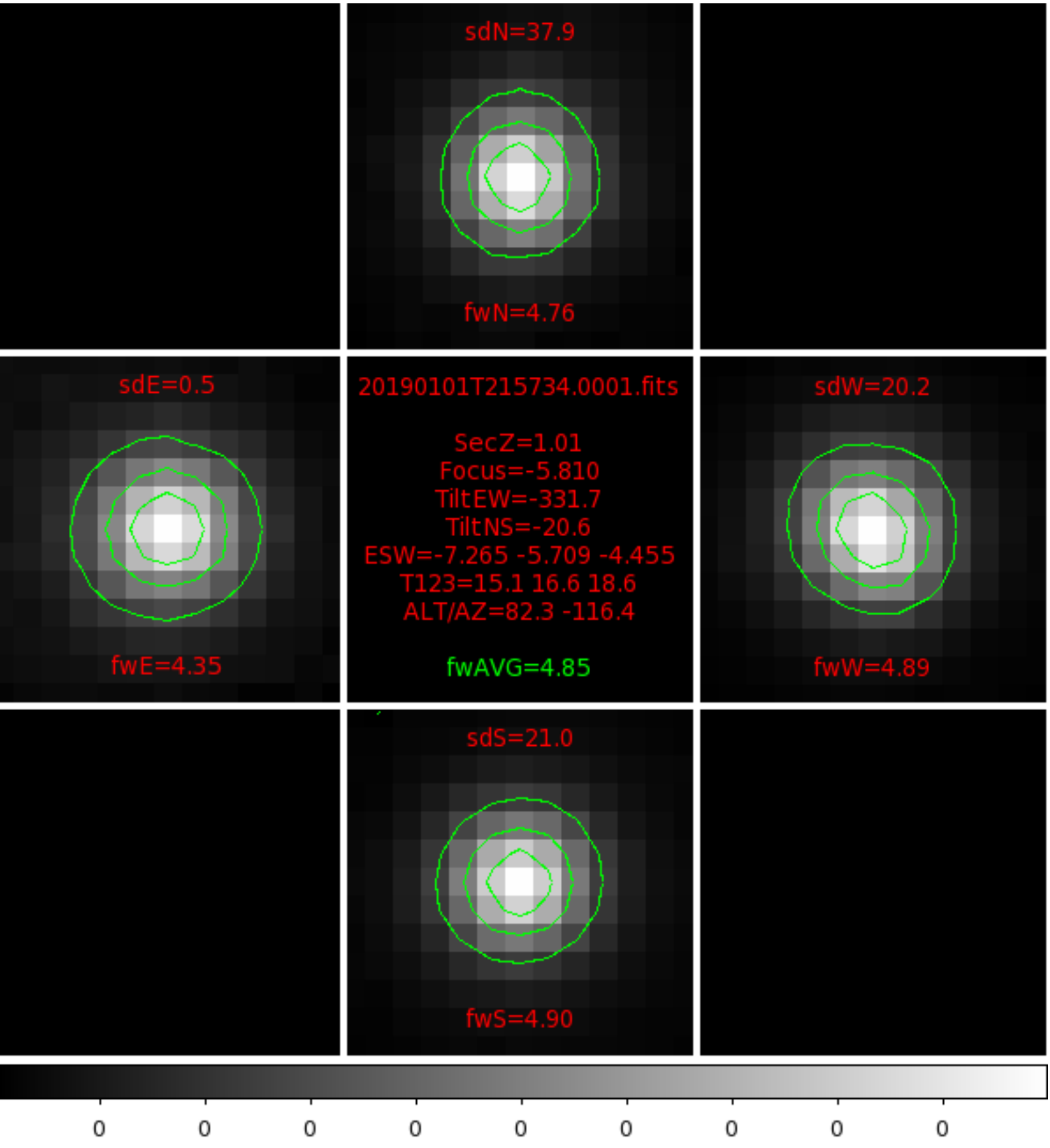
sdN=37.9
fwN=4.76
sdE=0.5
fwE=4.35
20190101T215734.0001.fits
SecZ=1.01
Focus=-5.810
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.265 -5.709 -4.455
T123=15.1 16.6 18.6
ALT/AZ=82.3 -116.4
fwAVG=4.85
sdW=20.2
fwW=4.89
sdS=21.0
fwS=4.90
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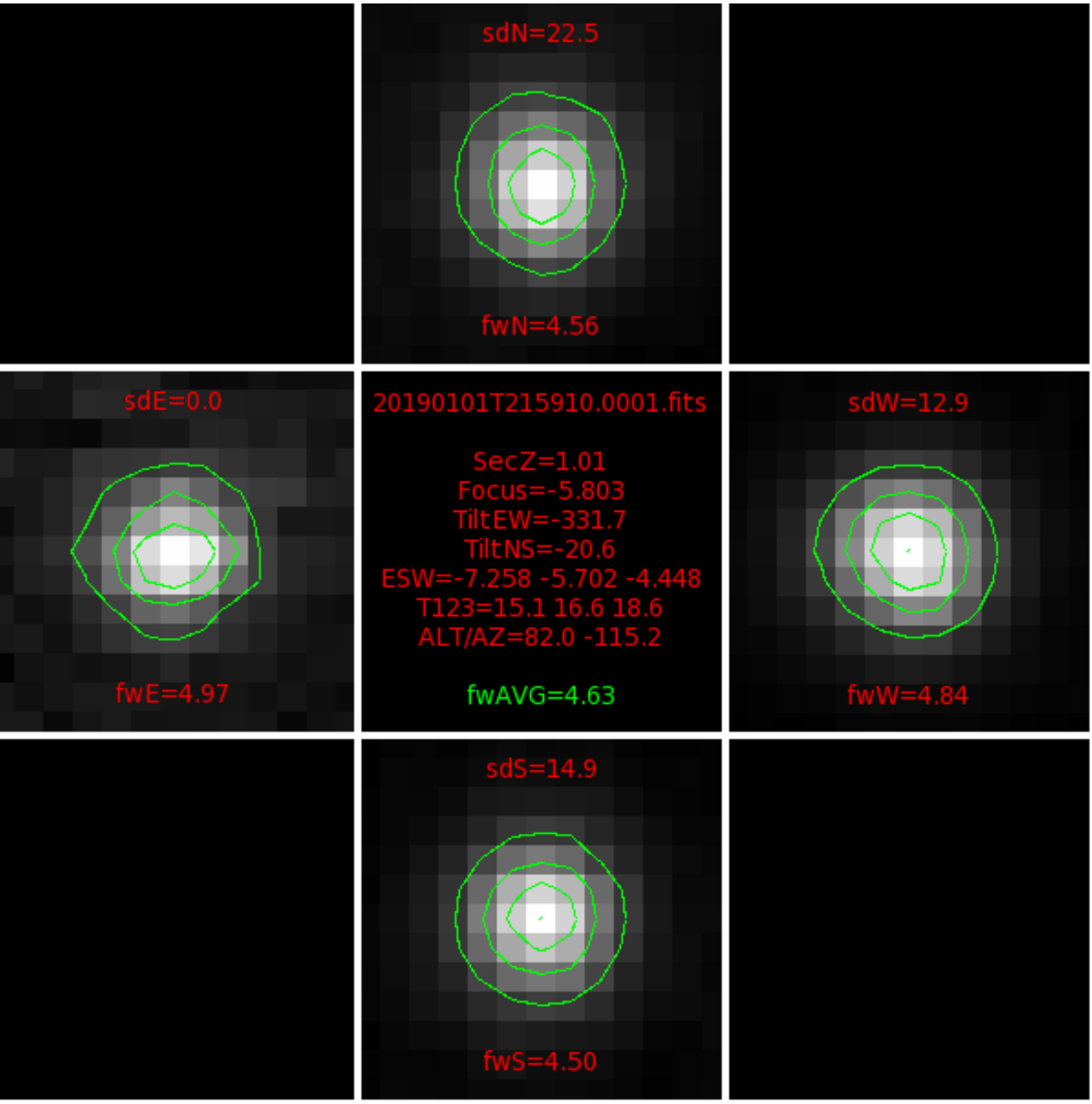
sdN=22.5
fwN=4.56
sdE=0.0
fwE=4.97
20190101T215910.0001.fits
SecZ=1.01
Focus=-5.803
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.258 -5.702 -4.448
T123=15.1 16.6 18.6
ALT/AZ=82.0 -115.2
fwAVG=4.63
sdW=12.9
fwW=4.84
sdS=14.9
fwS=4.50
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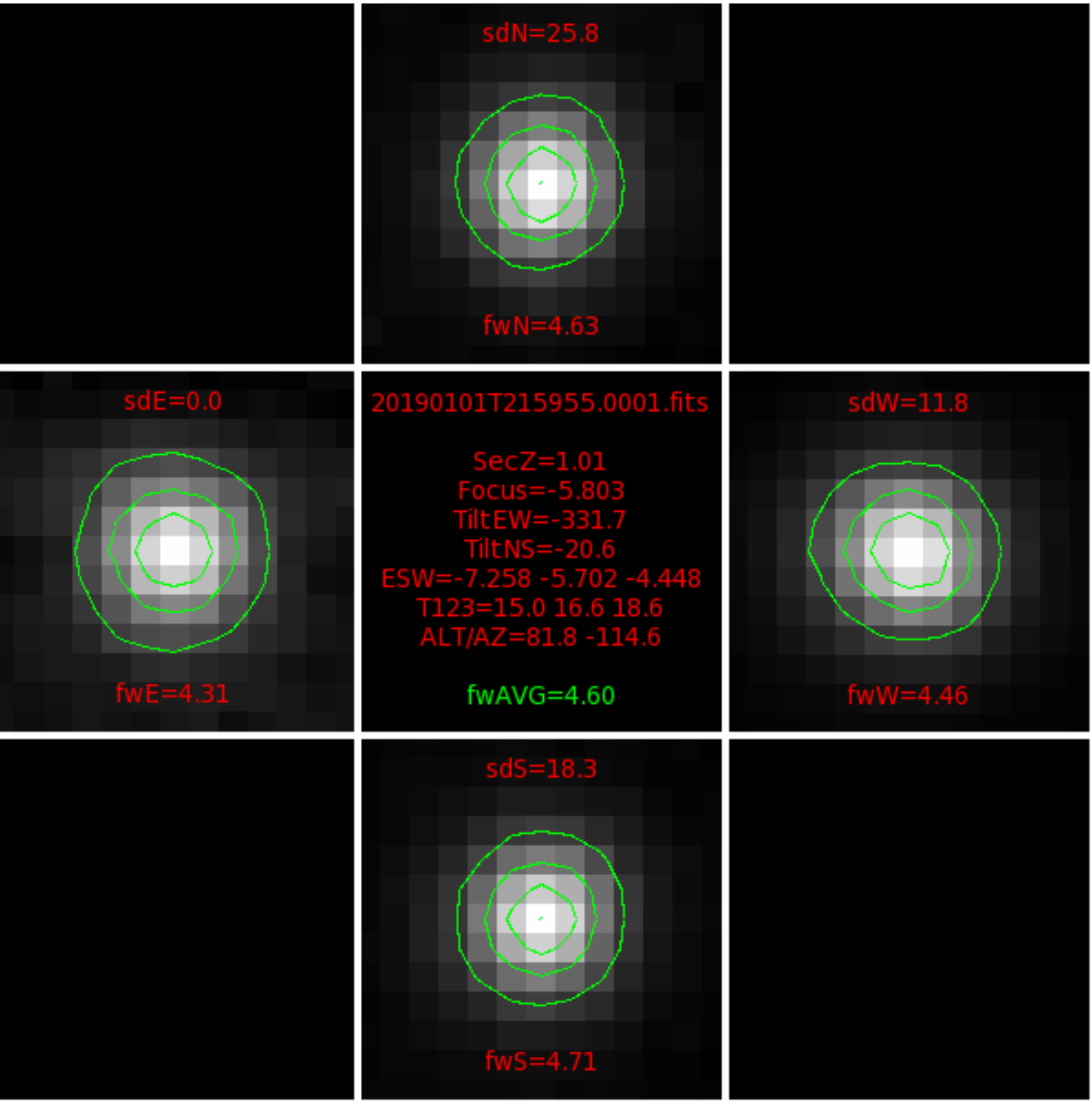
sdN=25.8
fwN=4.63
sdE=0.0
fwE=4.31
20190101T215955.0001.fits
SecZ=1.01
Focus=-5.803
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.258 -5.702 -4.448
T123=15.0 16.6 18.6
ALT/AZ=81.8 -114.6
fwAVG=4.60
sdW=11.8
fwW=4.46
sdS=18.3
fwS=4.71
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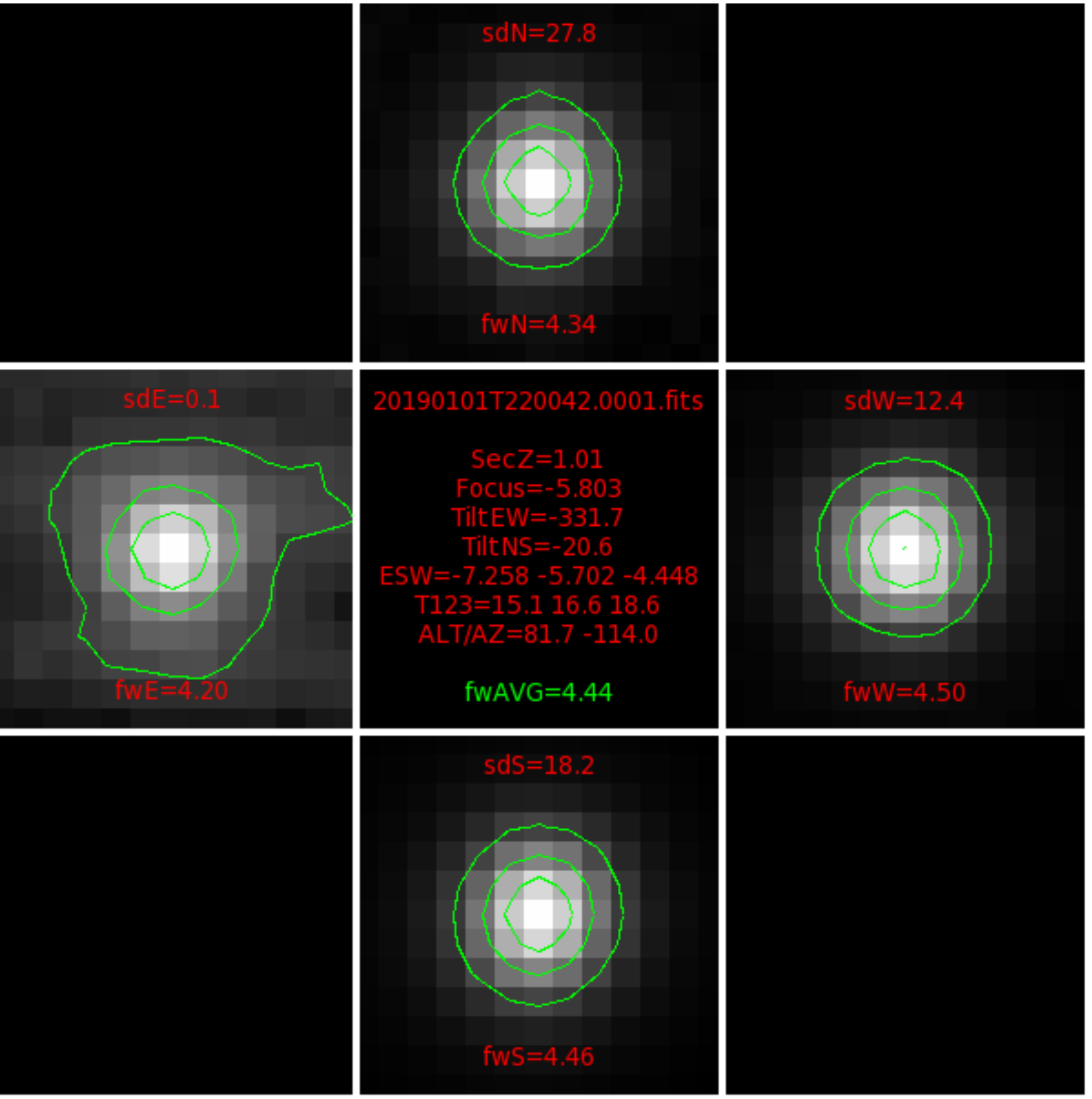
sdN=27.8
fwN=4.34
sdE=0.1
fwE=4.20
20190101T220042.0001.fits
SecZ=1.01
Focus=-5.803
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.258 -5.702 -4.448
T123=15.1 16.6 18.6
ALT/AZ=81.7 -114.0
fwAVG=4.44
sdW=12.4
fwW=4.50
sdS=18.2
fwS=4.46
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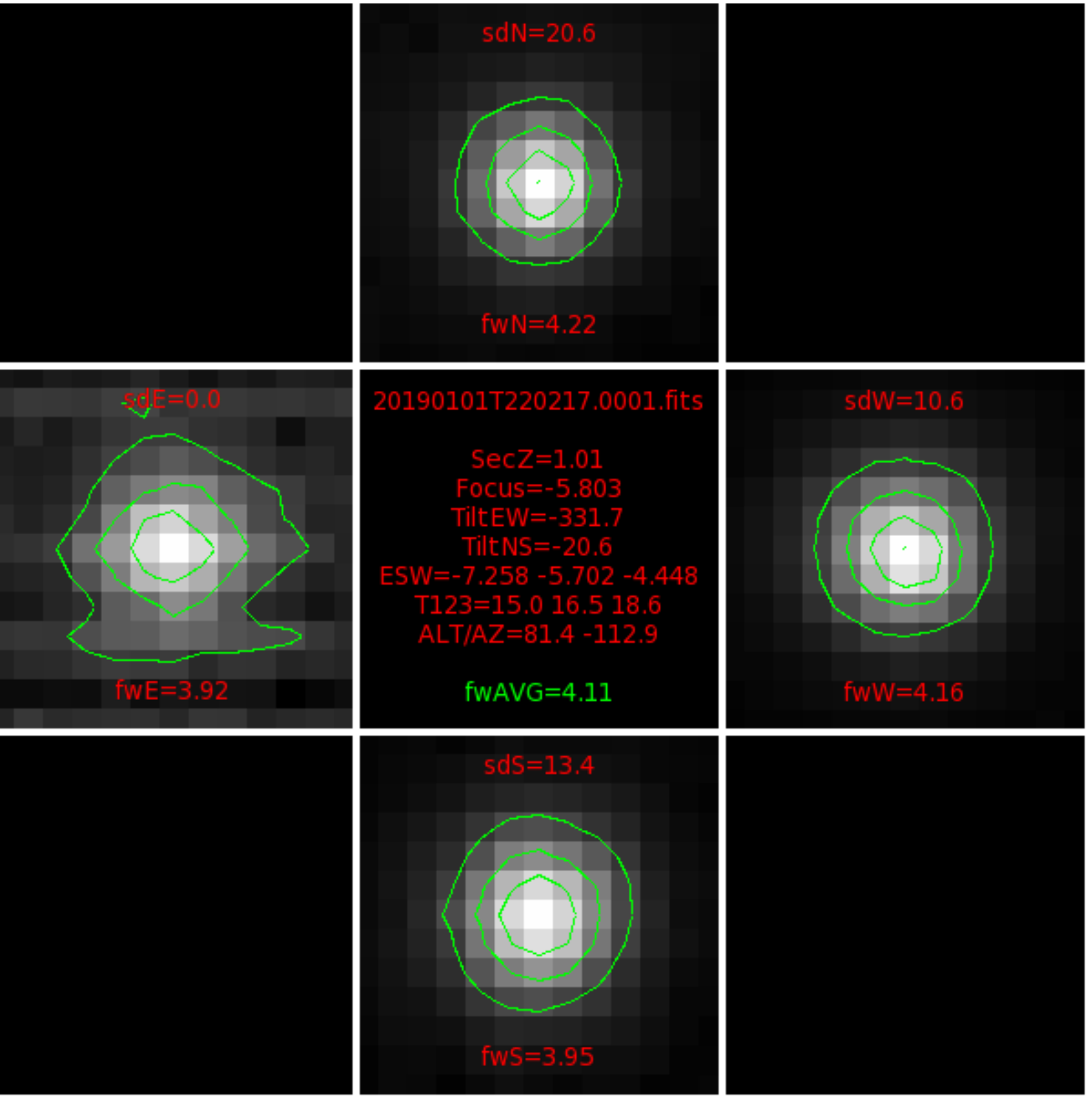
sdN=20.6
fwN=4.22
sdE=0.0
fwE=3.92
20190101T220217.0001.fits
SecZ=1.01
Focus=-5.803
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.258 -5.702 -4.448
T123=15.0 16.5 18.6
ALT/AZ=81.4 -112.9
fwAVG=4.11
sdW=10.6
fwW=4.16
sdS=13.4
fwS=3.95
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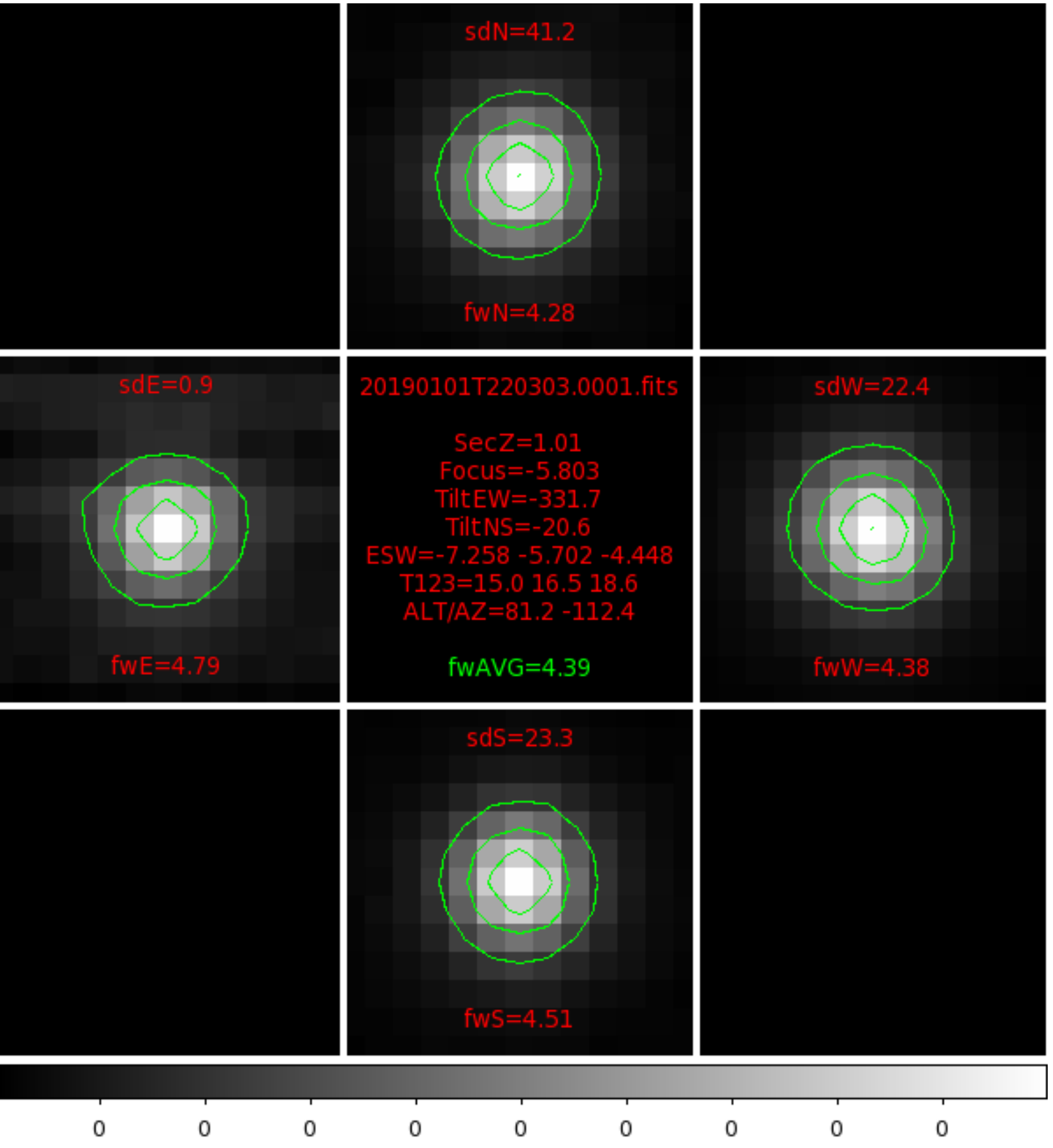
sdN=41.2
fwN=4.28
sdE=0.9
fwE=4.79
20190101T220303.0001.fits
SecZ=1.01
Focus=-5.803
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.258 -5.702 -4.448
T123=15.0 16.5 18.6
ALT/AZ=81.2 -112.4
fwAVG=4.39
sdW=22.4
fwW=4.38
sdS=23.3
fwS=4.51
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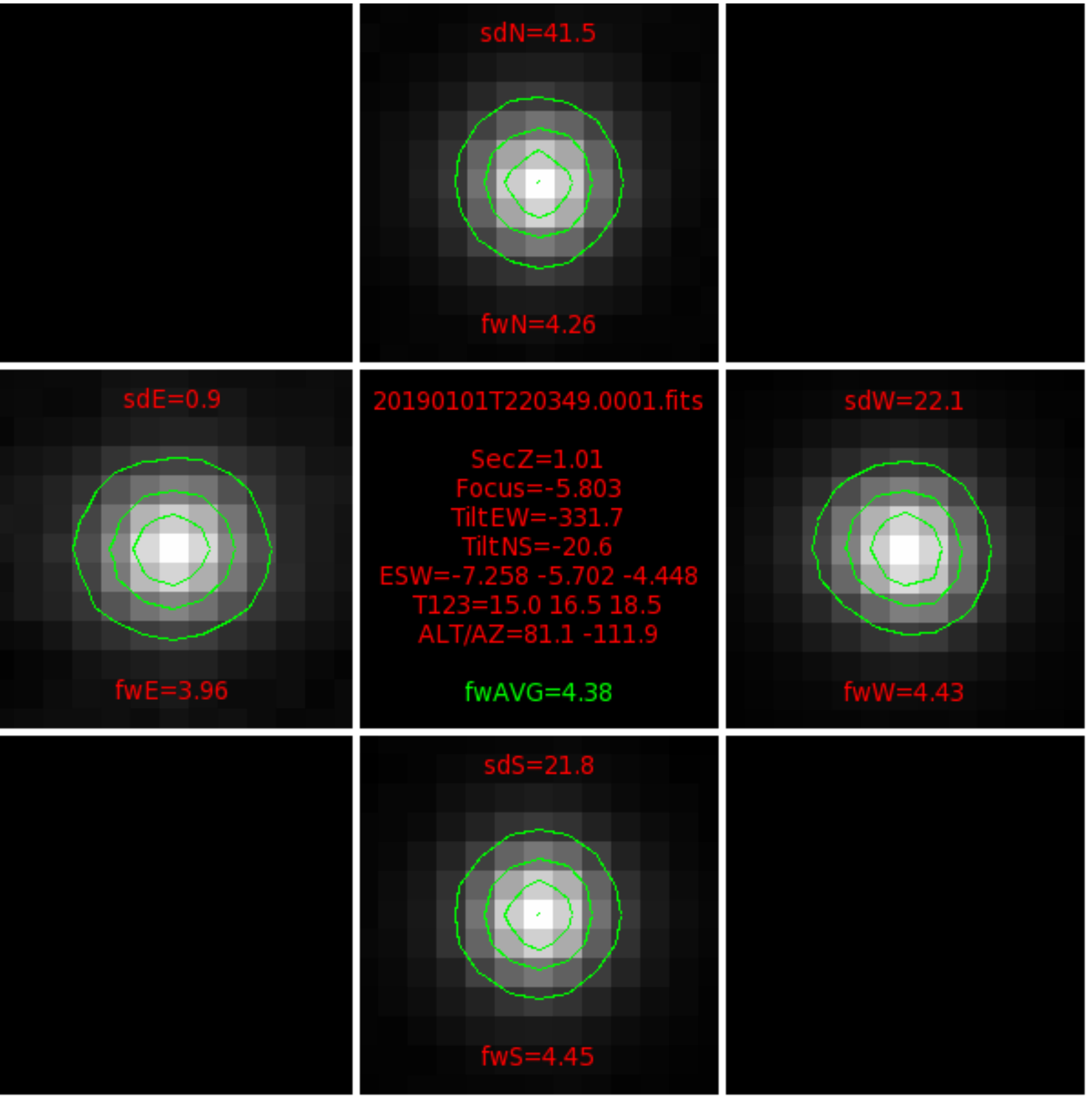
sdN=41.5
fwN=4.26
sdE=0.9
fwE=3.96
20190101T220349.0001.fits
SecZ=1.01
Focus=-5.803
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.258 -5.702 -4.448
T123=15.0 16.5 18.5
ALT/AZ=81.1 -111.9
fwAVG=4.38
sdW=22.1
fwW=4.43
sdS=21.8
fwS=4.45
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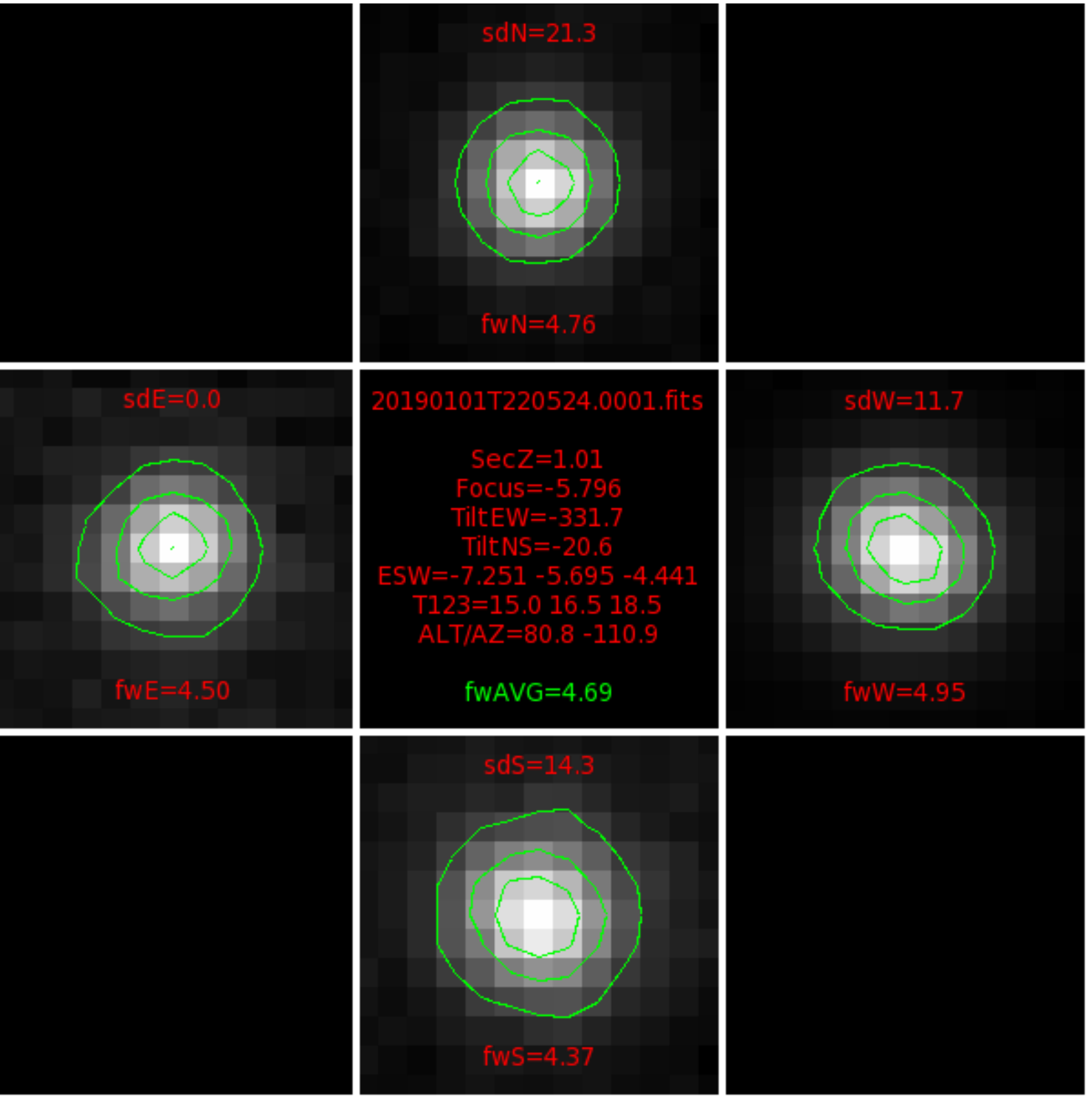
sdN=21.3
fwN=4.76
sdE=0.0
fwE=4.50
20190101T220524.0001.fits
SecZ=1.01
Focus=-5.796
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.251 -5.695 -4.441
T123=15.0 16.5 18.5
ALT/AZ=80.8 -110.9
fwAVG=4.69
sdW=11.7
fwW=4.95
sdS=14.3
fwS=4.37
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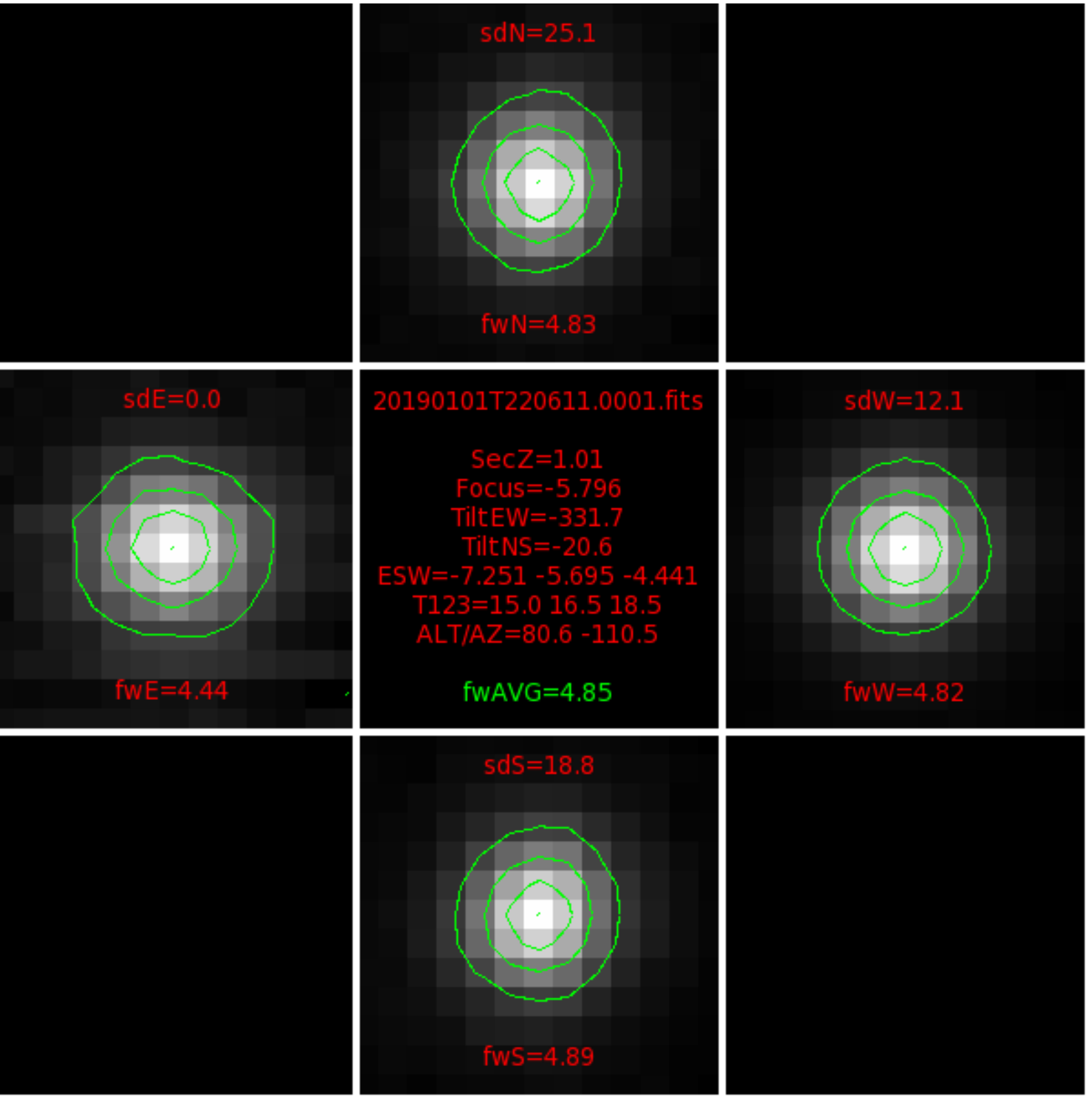
sdN=25.1
fwN=4.83
sdE=0.0
fwE=4.44
20190101T220611.0001.fits
SecZ=1.01
Focus=-5.796
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.251 -5.695 -4.441
T123=15.0 16.5 18.5
ALT/AZ=80.6 -110.5
fwAVG=4.85
sdW=12.1
fwW=4.82
sdS=18.8
fwS=4.89
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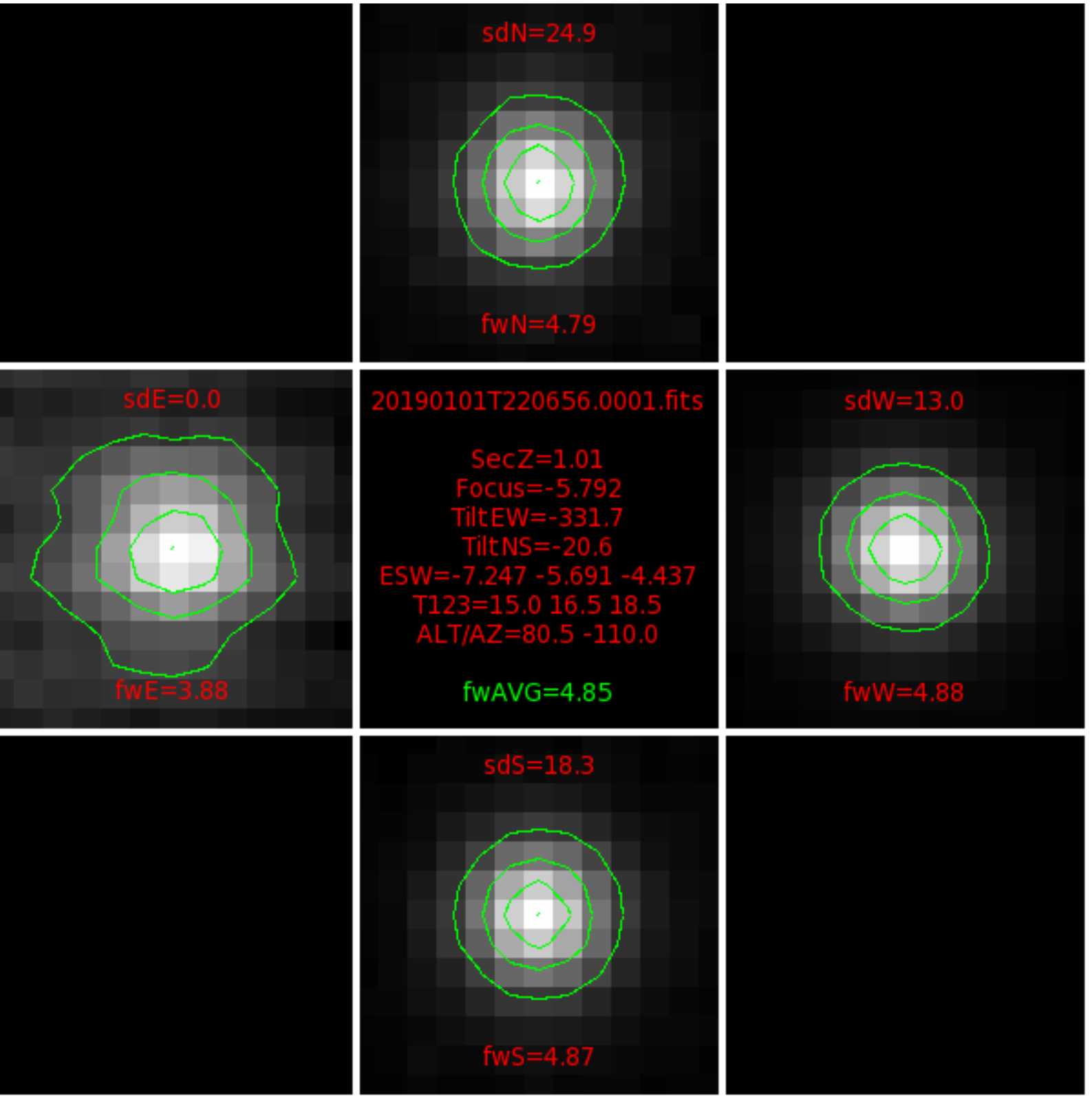
sdN=24.9
fwN=4.79
sdE=0.0
fwE=3.88
20190101T220656.0001.fits
SecZ=1.01
Focus=-5.792
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.247 -5.691 -4.437
T123=15.0 16.5 18.5
ALT/AZ=80.5 -110.0
fwAVG=4.85
sdW=13.0
fwW=4.88
sdS=18.3
fwS=4.87
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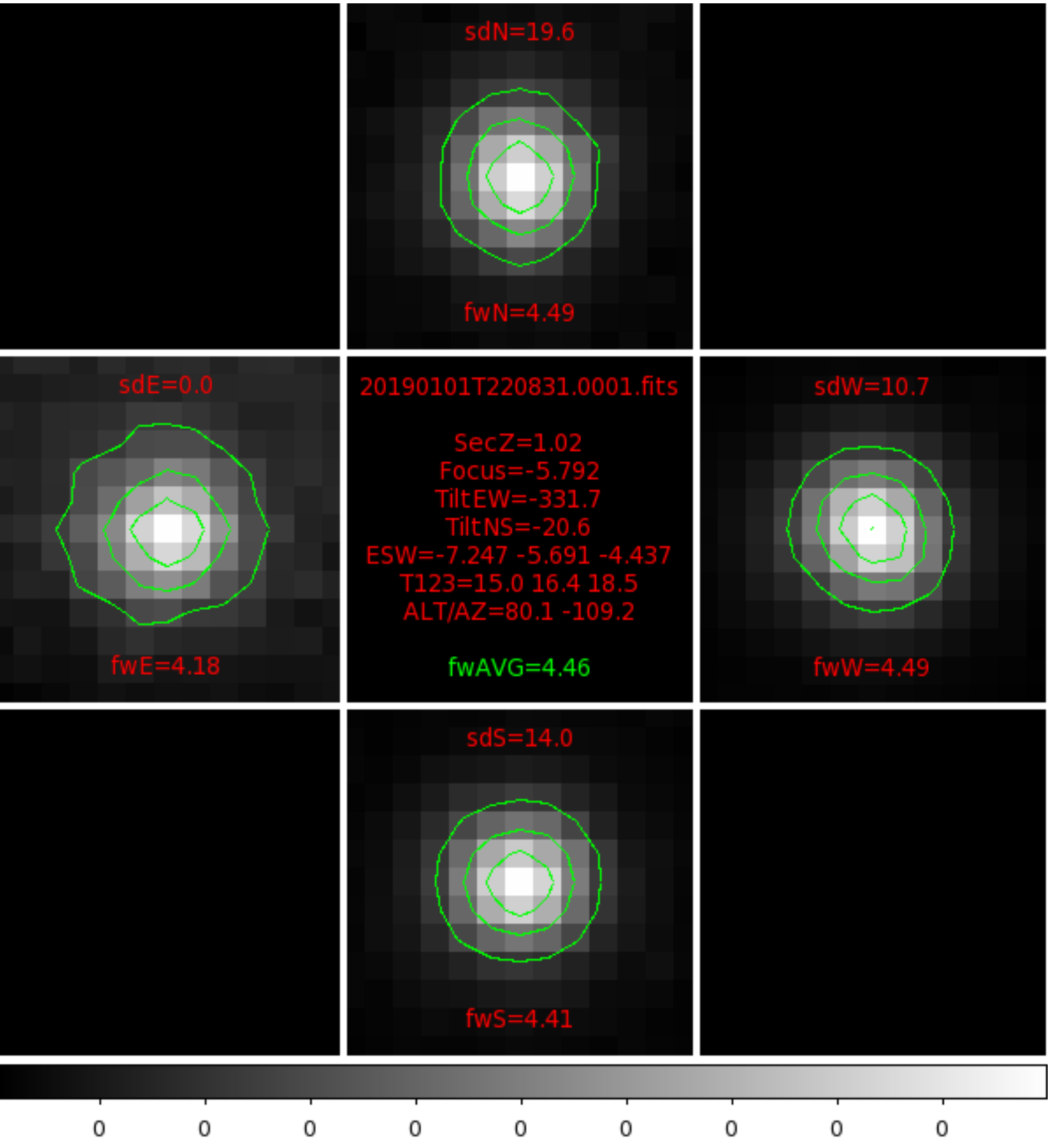
sdN=19.6
fwN=4.49
sdE=0.0
fwE=4.18
20190101T220831.0001.fits
SecZ=1.02
Focus=-5.792
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.247 -5.691 -4.437
T123=15.0 16.4 18.5
ALT/AZ=80.1 -109.2
fwAVG=4.46
sdW=10.7
fwW=4.49
sdS=14.0
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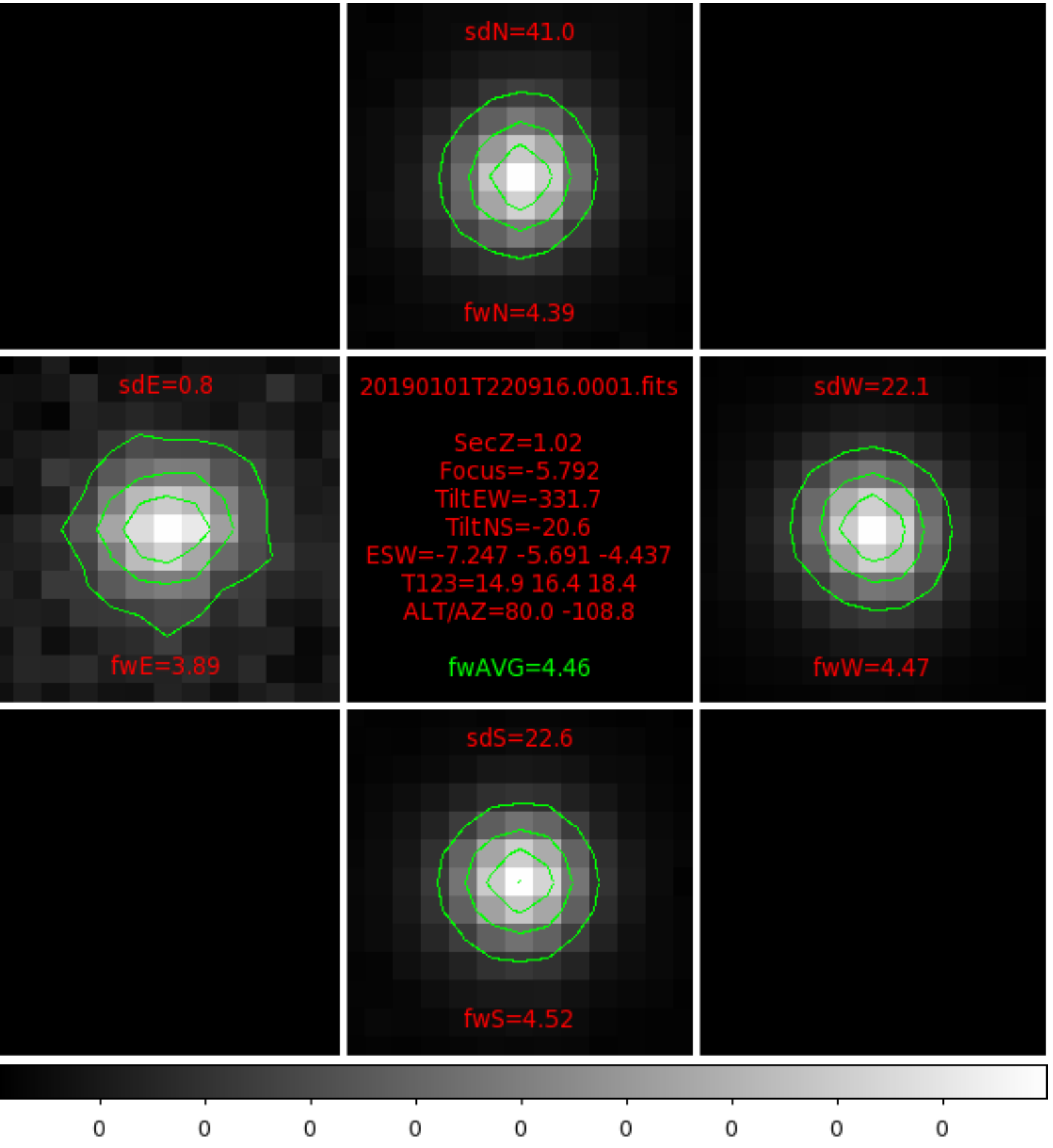
sdN=41.0
fwN=4.39
sdE=0.8
fwE=3.89
20190101T220916.0001.fits
SecZ=1.02
Focus=-5.792
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.247 -5.691 -4.437
T123=14.9 16.4 18.4
ALT/AZ=80.0 -108.8
fwAVG=4.46
sdW=22.1
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sdS=22.6
fwS=4.52
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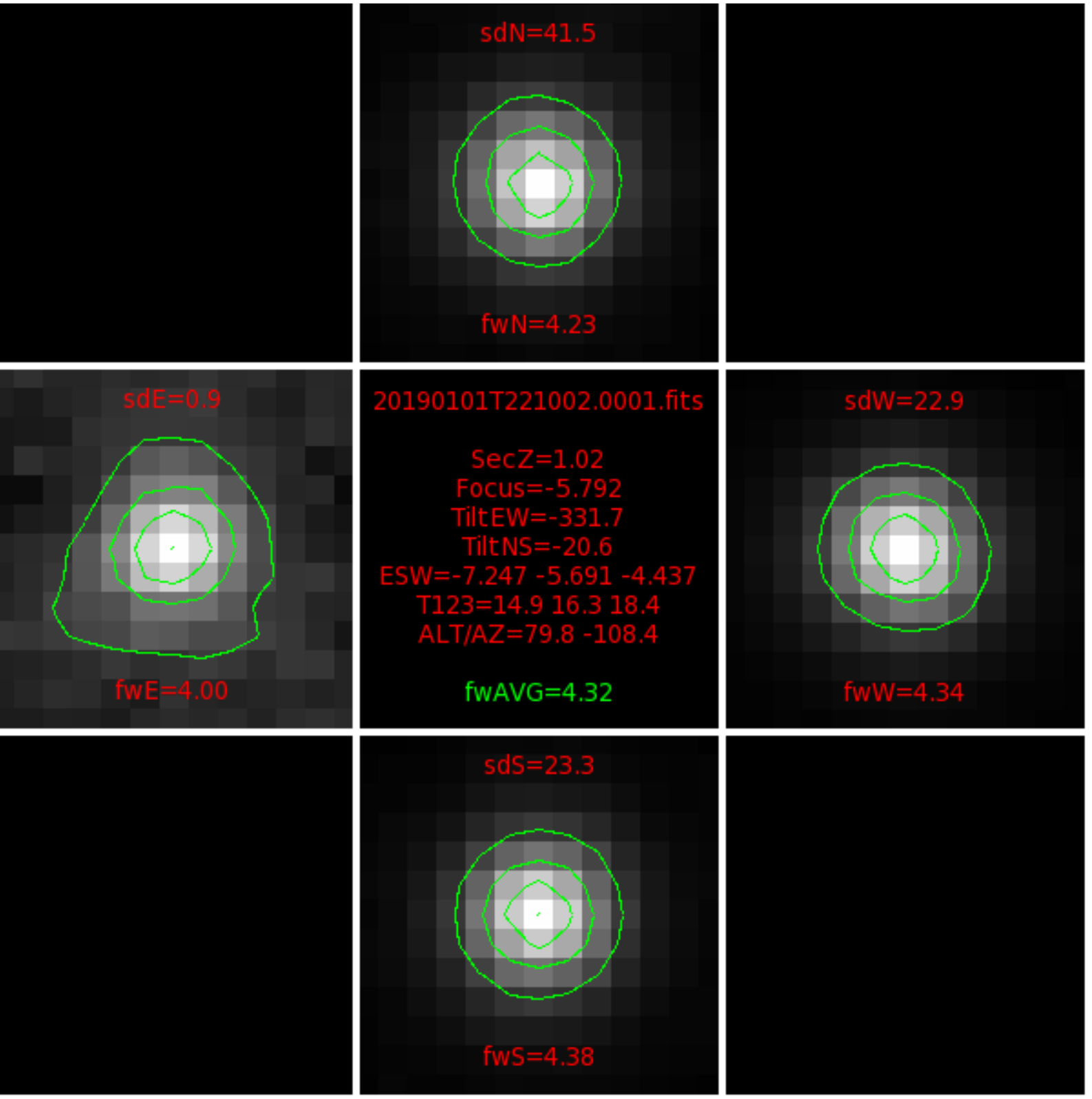
sdN=41.5
fwN=4.23
sdE=0.9
fwE=4.00
20190101T221002.0001.fits
SecZ=1.02
Focus=-5.792
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.247 -5.691 -4.437
T123=14.9 16.3 18.4
ALT/AZ=79.8 -108.4
fwAVG=4.32
sdW=22.9
fwW=4.34
sdS=23.3
fwS=4.38
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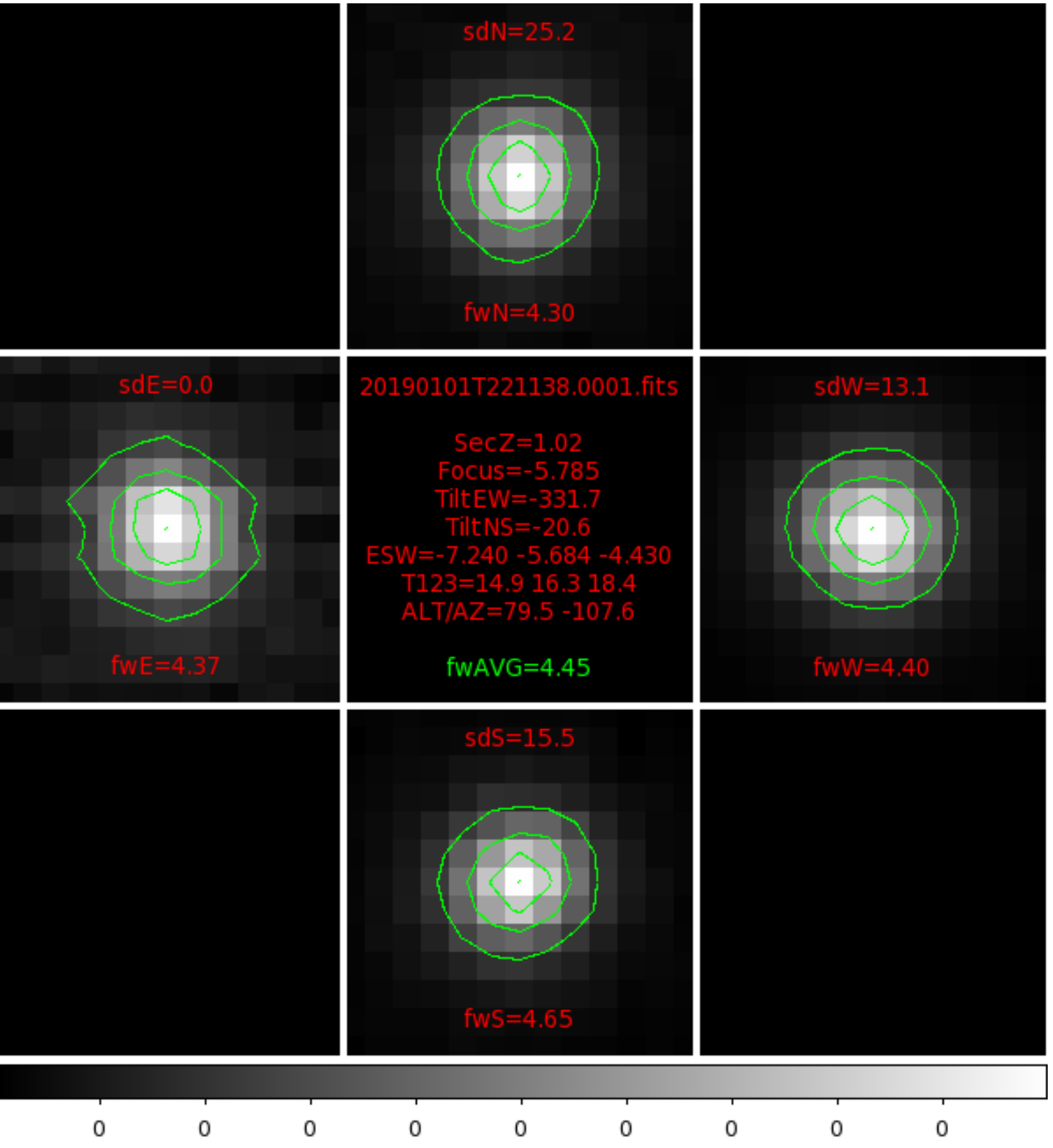
sdN=25.2
fwN=4.30
sdE=0.0
fwE=4.37
20190101T221138.0001.fits
SecZ=1.02
Focus=-5.785
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.240 -5.684 -4.430
T123=14.9 16.3 18.4
ALT/AZ=79.5 -107.6
fwAVG=4.45
sdW=13.1
fwW=4.40
sdS=15.5
fwS=4.65
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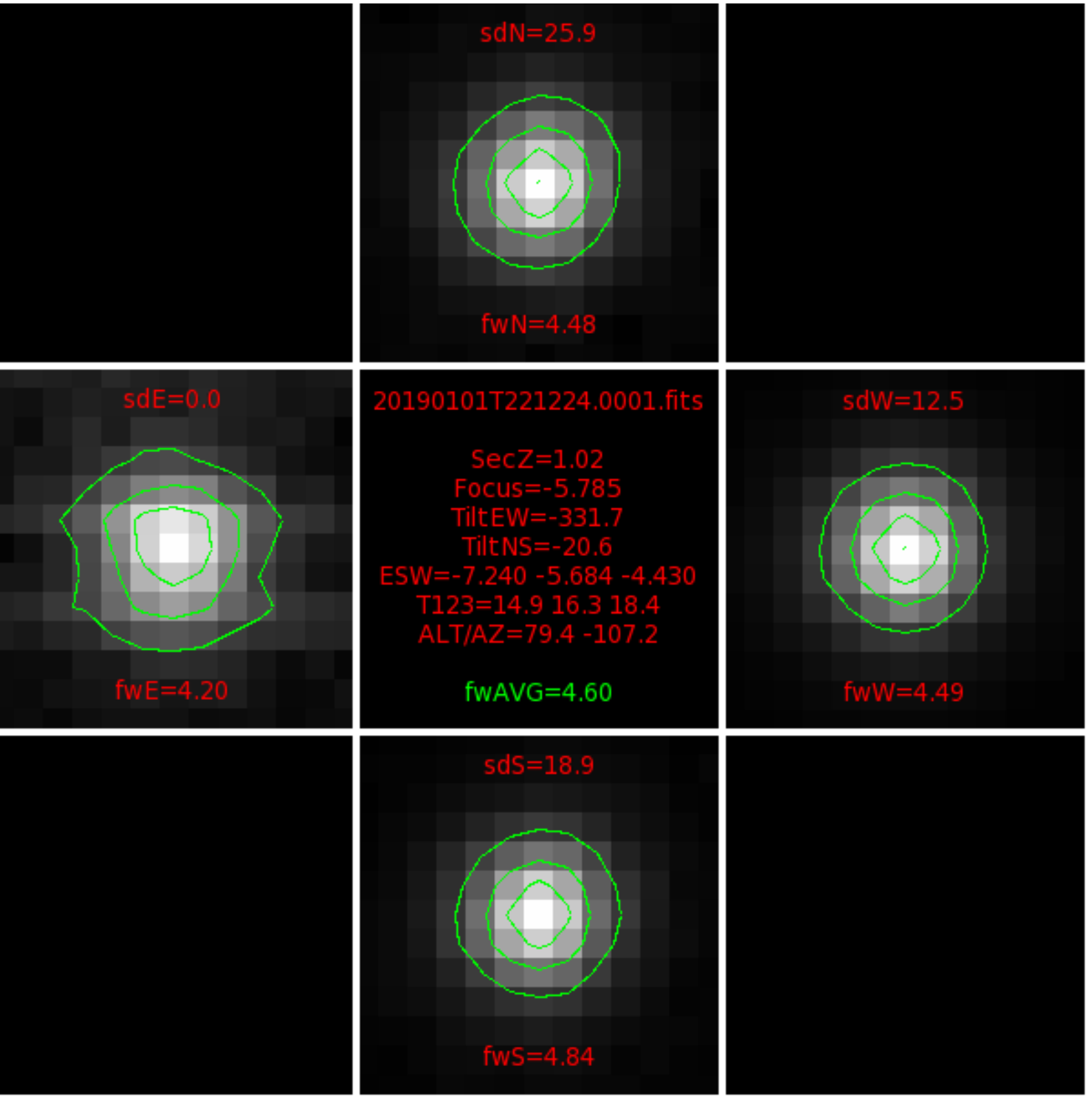
sdN=25.9
fwN=4.48
sdE=0.0
fwE=4.20
20190101T221224.0001.fits
SecZ=1.02
Focus=-5.785
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.240 -5.684 -4.430
T123=14.9 16.3 18.4
ALT/AZ=79.4 -107.2
fwAVG=4.60
sdW=12.5
fwW=4.49
sdS=18.9
fwS=4.84
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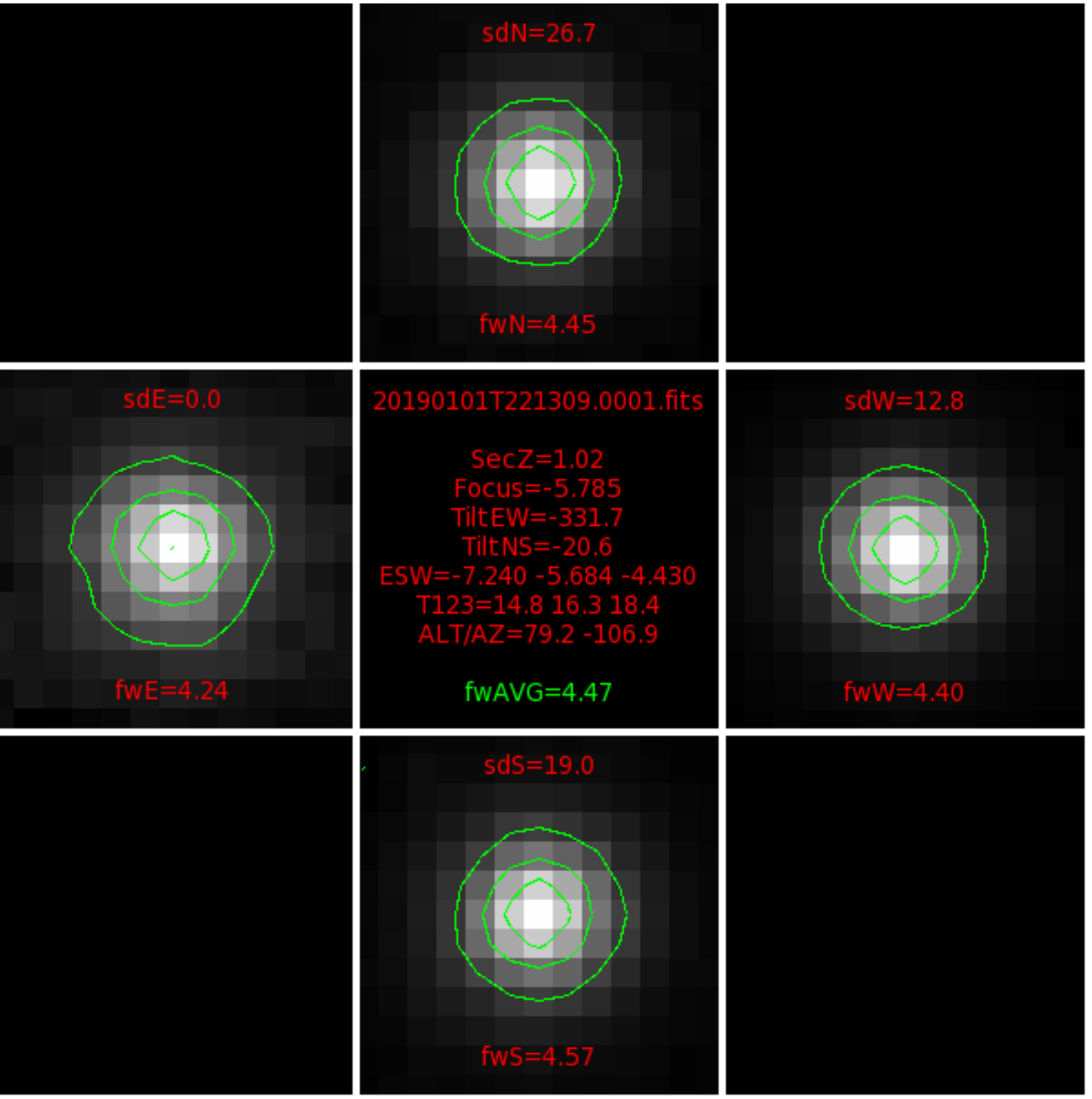
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fwN=4.45
sdE=0.0
fwE=4.24
20190101T221309.0001.fits
SecZ=1.02
Focus=-5.785
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.240 -5.684 -4.430
T123=14.8 16.3 18.4
ALT/AZ=79.2 -106.9
fwAVG=4.47
sdW=12.8
fwW=4.40
sdS=19.0
fwS=4.57
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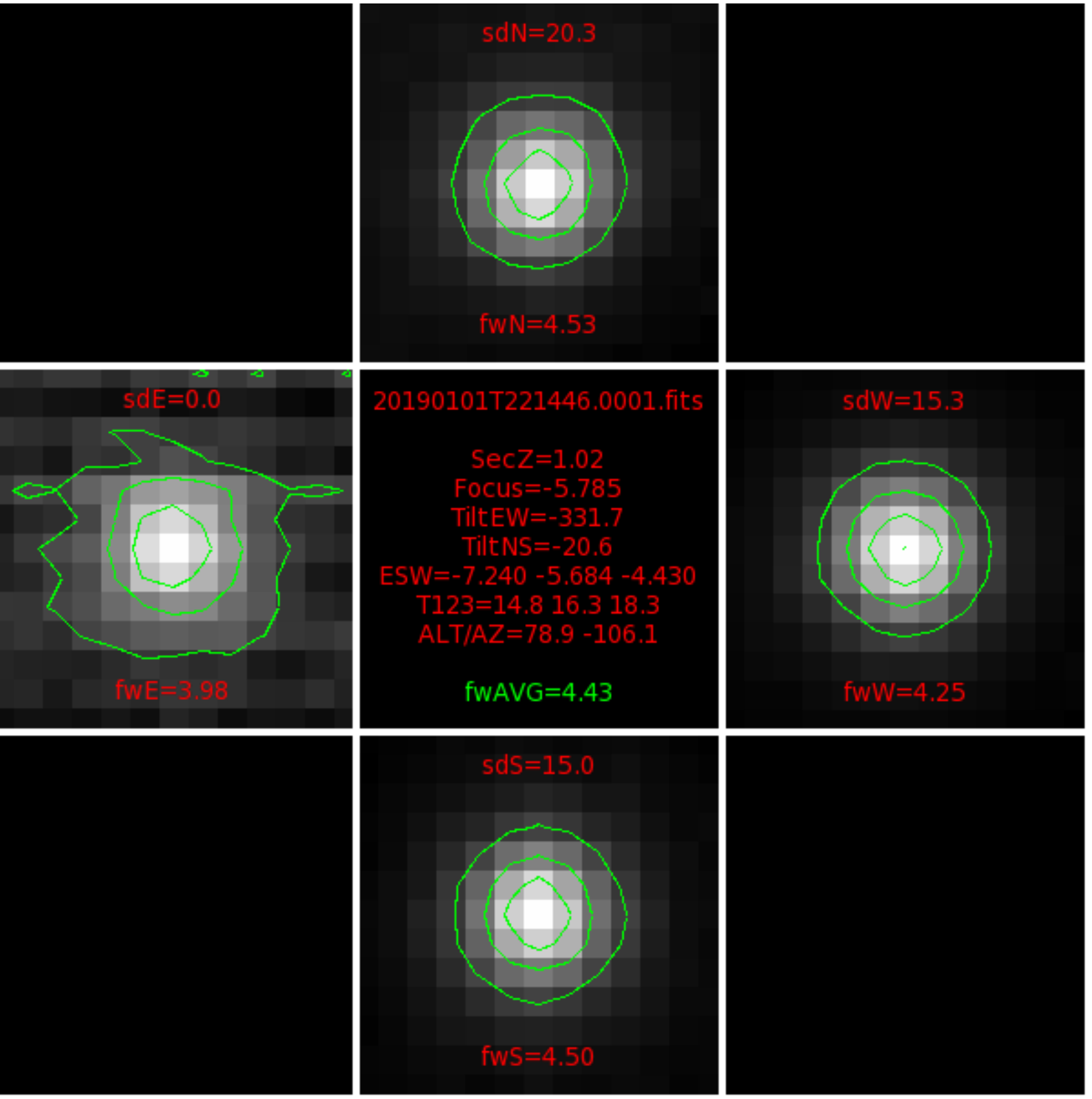
sdN=20.3
fwN=4.53
sdE=0.0
fwE=3.98
20190101T221446.0001.fits
SecZ=1.02
Focus=-5.785
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.240 -5.684 -4.430
T123=14.8 16.3 18.3
ALT/AZ=78.9 -106.1
fwAVG=4.43
sdW=15.3
fwW=4.25
sdS=15.0
fwS=4.50
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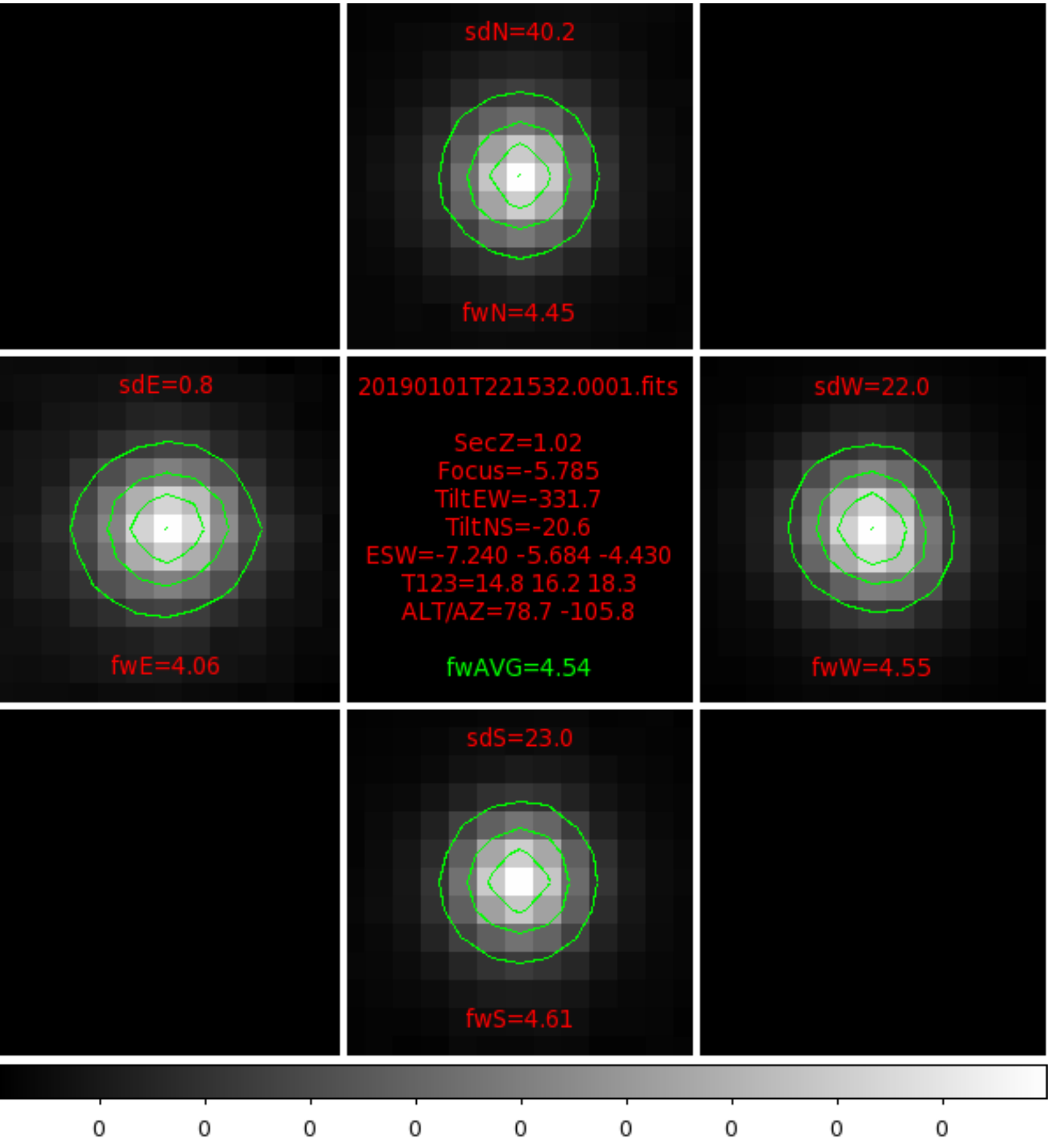
sdN=40.2
fwN=4.45
sdE=0.8
fwE=4.06
20190101T221532.0001.fits
SecZ=1.02
Focus=-5.785
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.240 -5.684 -4.430
T123=14.8 16.2 18.3
ALT/AZ=78.7 -105.8
fwAVG=4.54
sdW=22.0
fwW=4.55
sdS=23.0
fwS=4.61
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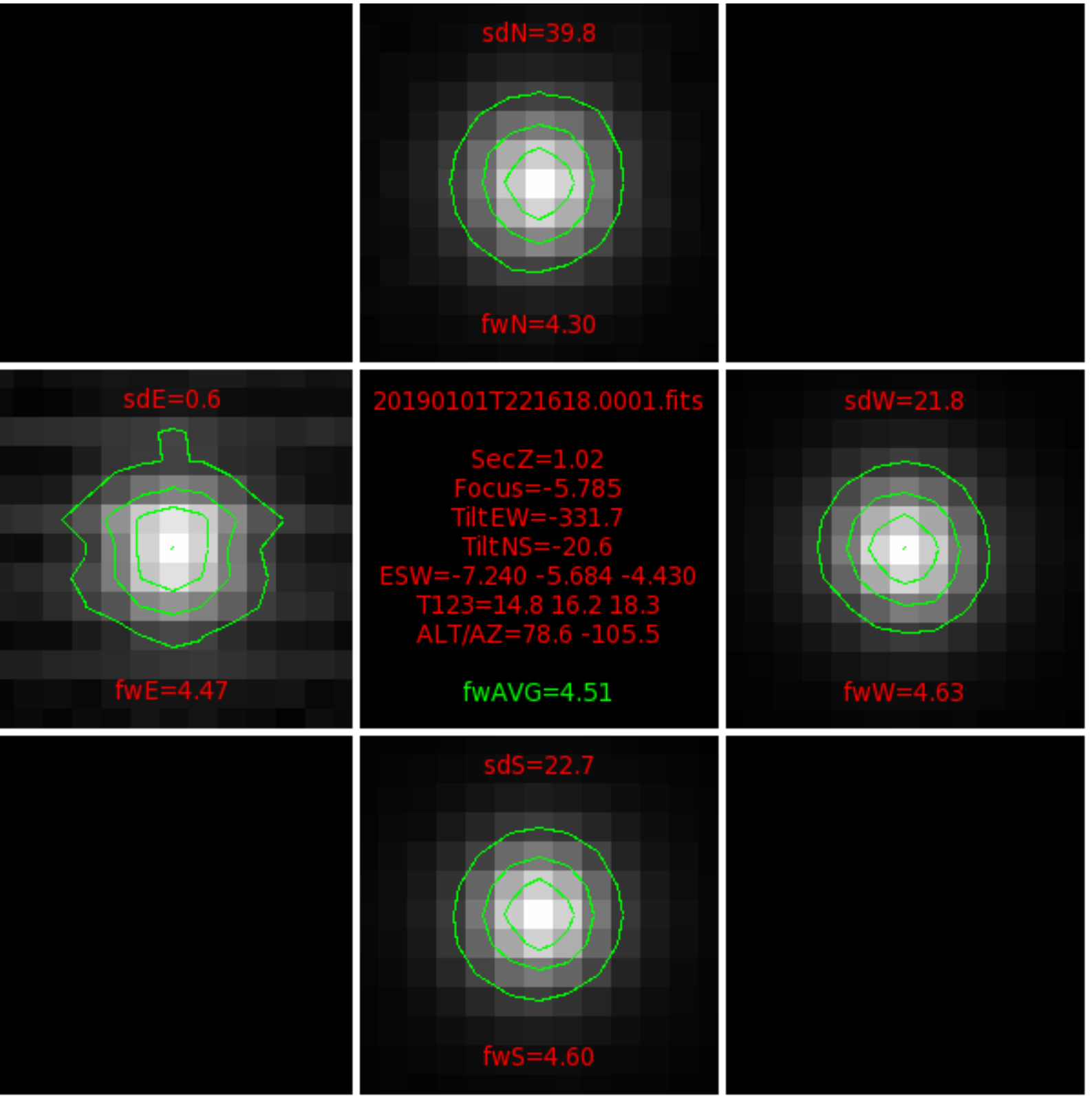
sdN=39.8
fwN=4.30
sdE=0.6
fwE=4.47
20190101T221618.0001.fits
SecZ=1.02
Focus=-5.785
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.240 -5.684 -4.430
T123=14.8 16.2 18.3
ALT/AZ=78.6 -105.5
fwAVG=4.51
sdW=21.8
fwW=4.63
sdS=22.7
fwS=4.60
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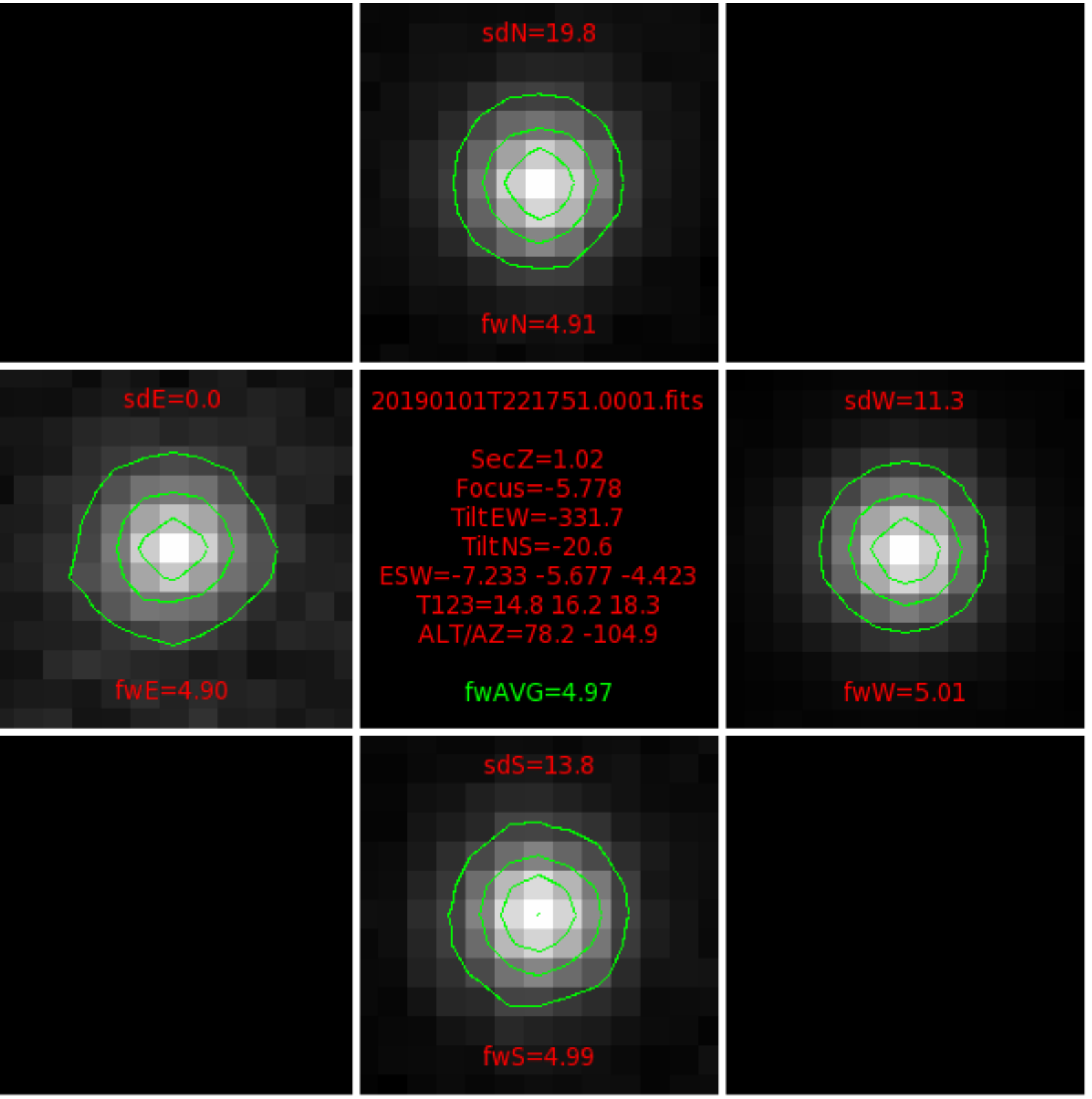
sdN=19.8
fwN=4.91
sdE=0.0
fwE=4.90
20190101T221751.0001.fits
SecZ=1.02
Focus=-5.778
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.233 -5.677 -4.423
T123=14.8 16.2 18.3
ALT/AZ=78.2 -104.9
fwAVG=4.97
sdW=11.3
fwW=5.01
sdS=13.8
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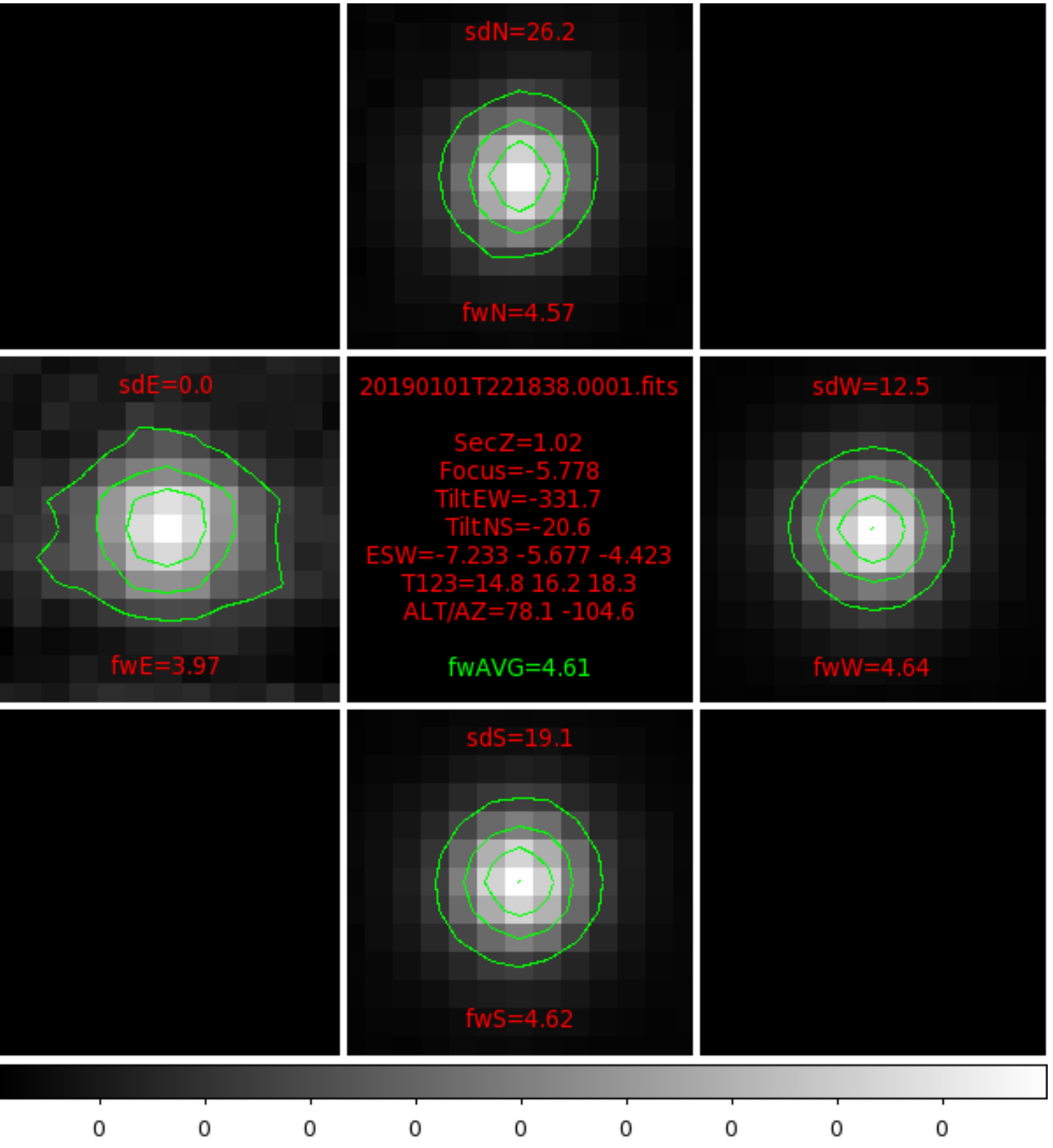
sdN=26.2
fwN=4.57
sdE=0.0
fwE=3.97
20190101T221838.0001.fits
SecZ=1.02
Focus=-5.778
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.233 -5.677 -4.423
T123=14.8 16.2 18.3
ALT/AZ=78.1 -104.6
fwAVG=4.61
sdW=12.5
fwW=4.64
sdS=19.1
fwS=4.62
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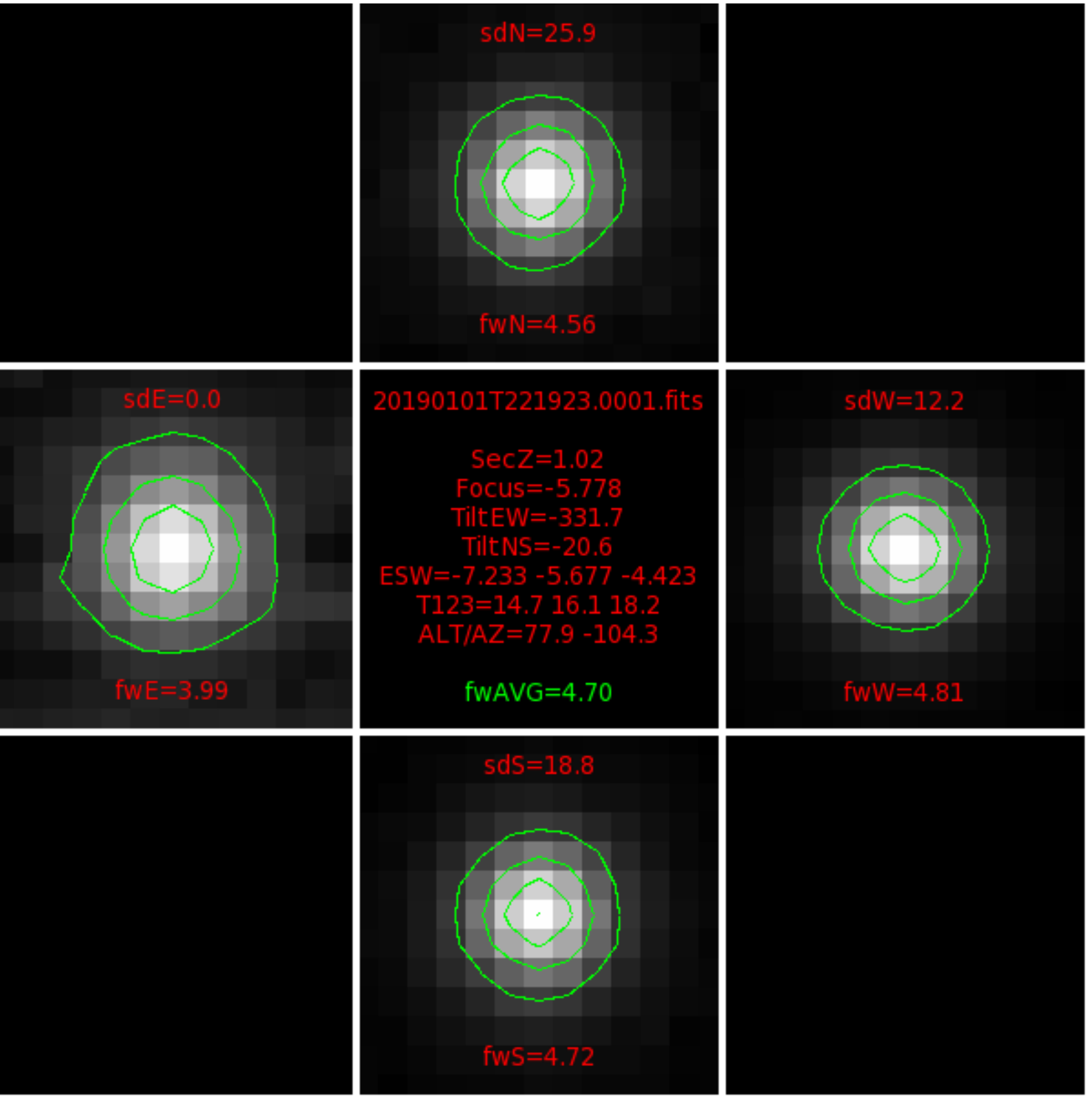
sdN=25.9
fwN=4.56
sdE=0.0
fwE=3.99
20190101T221923.0001.fits
SecZ=1.02
Focus=-5.778
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.233 -5.677 -4.423
T123=14.7 16.1 18.2
ALT/AZ=77.9 -104.3
fwAVG=4.70
sdW=12.2
fwW=4.81
sdS=18.8
fwS=4.72
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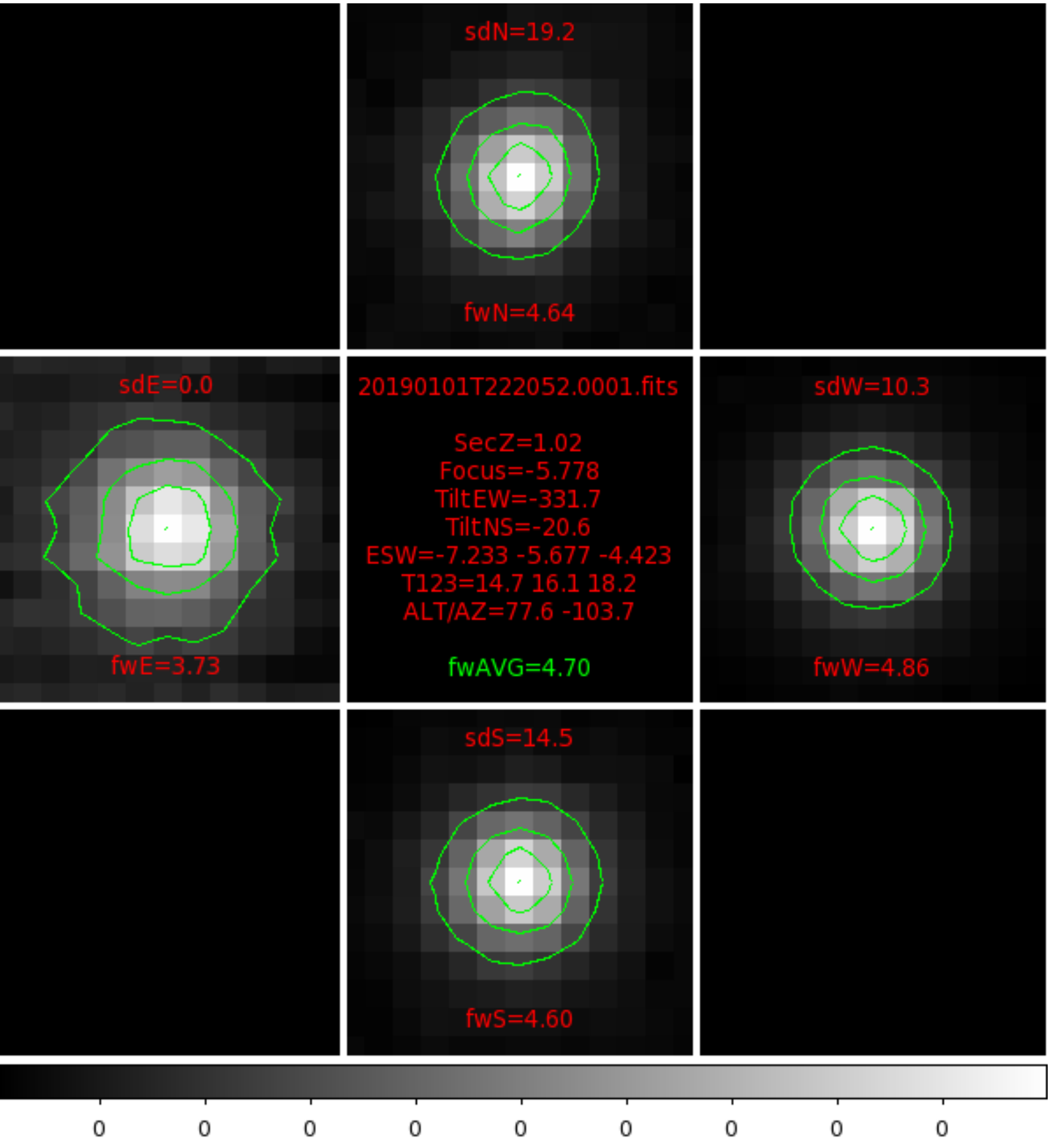
sdN=19.2
fwN=4.64
sdE=0.0
fwE=3.73
20190101T222052.0001.fits
SecZ=1.02
Focus=-5.778
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.233 -5.677 -4.423
T123=14.7 16.1 18.2
ALT/AZ=77.6 -103.7
fwAVG=4.70
sdW=10.3
fwW=4.86
sdS=14.5
fwS=4.60
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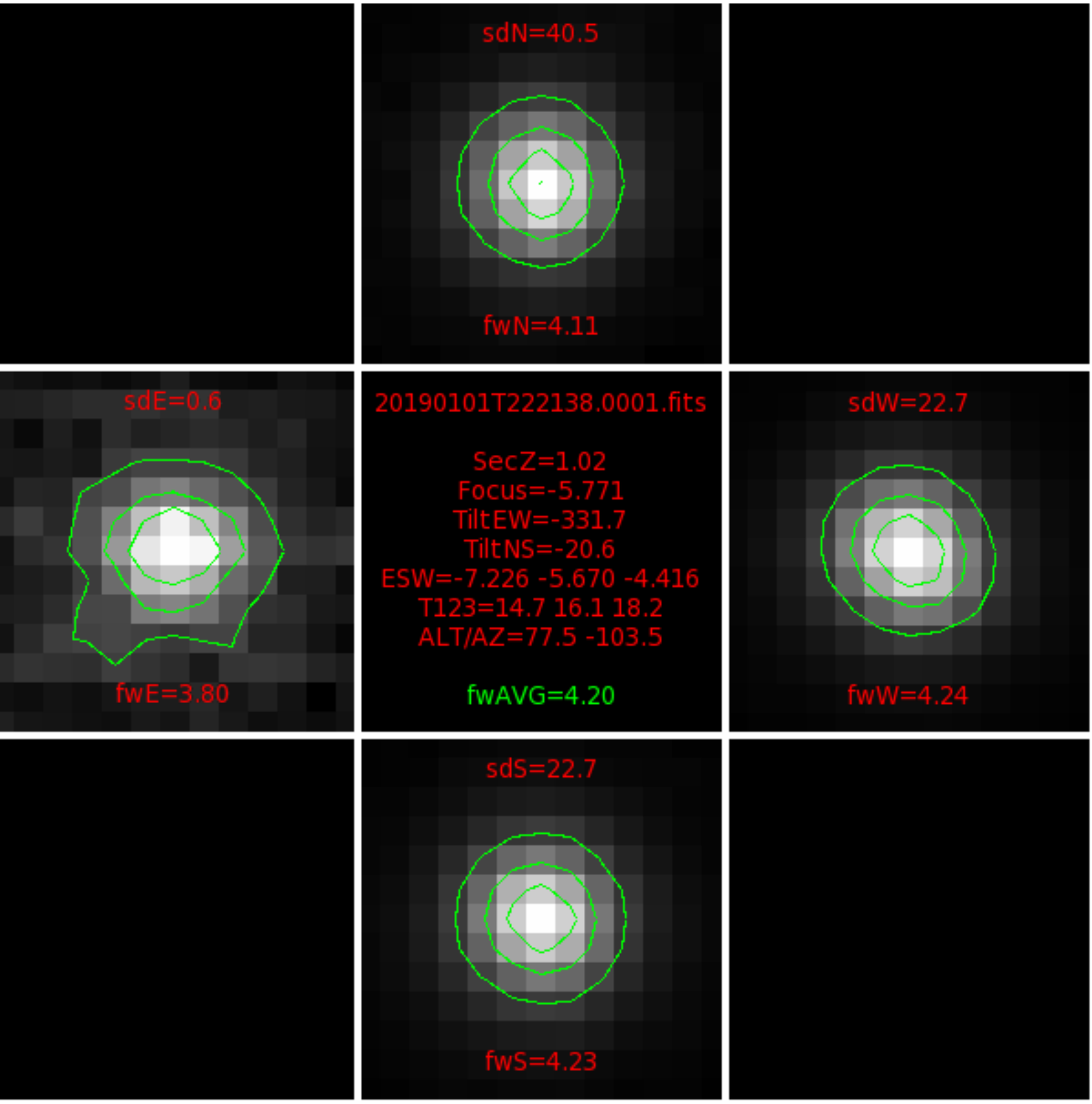
sdN=40.5
fwN=4.11
sdE=0.6
fwE=3.80
20190101T222138.0001.fits
SecZ=1.02
Focus=-5.771
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.226 -5.670 -4.416
T123=14.7 16.1 18.2
ALT/AZ=77.5 -103.5
fwAVG=4.20
sdW=22.7
fwW=4.24
sdS=22.7
fwS=4.23
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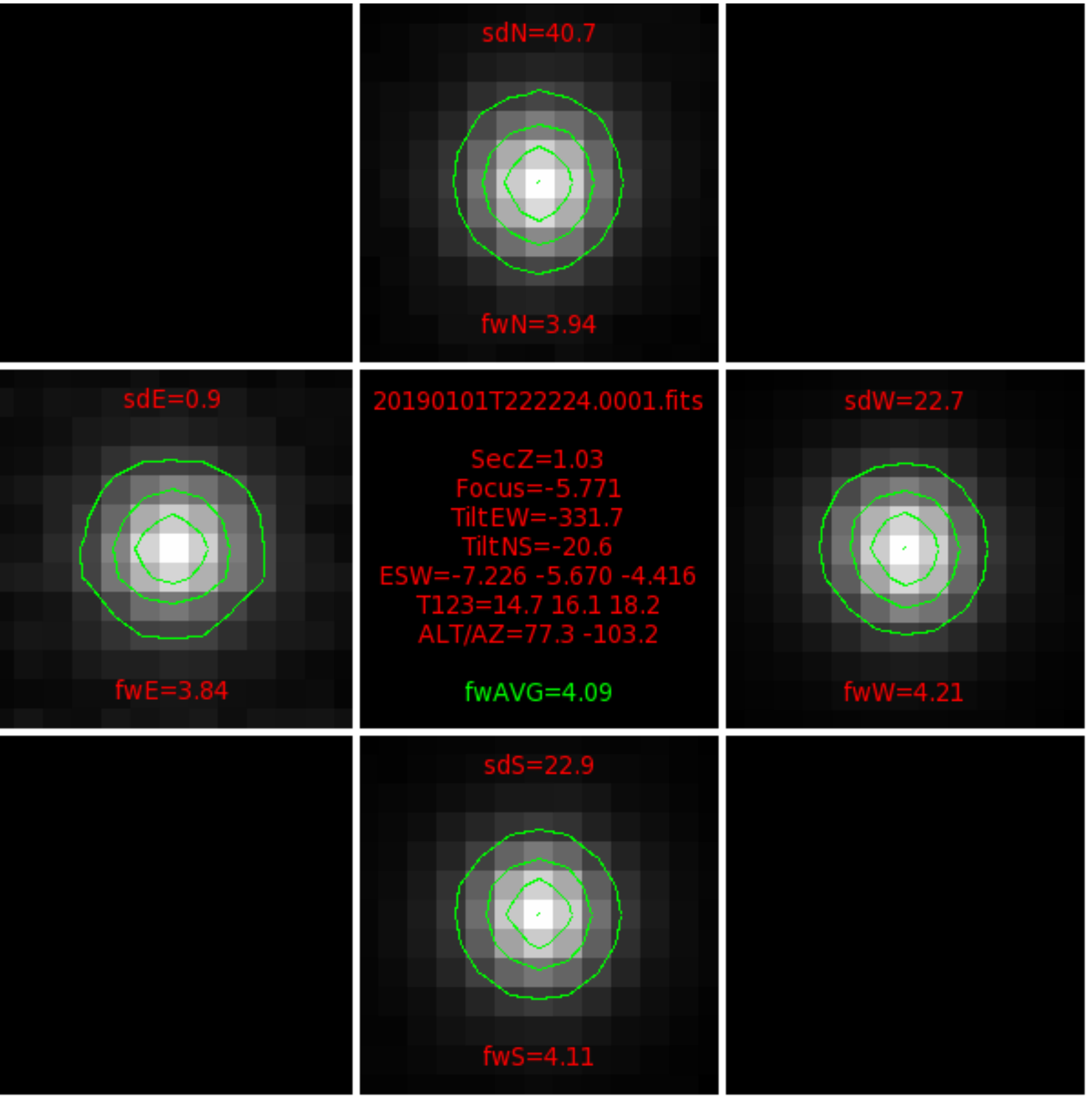
sdN=40.7
fwN=3.94
sdE=0.9
fwE=3.84
20190101T222224.0001.fits
SecZ=1.03
Focus=-5.771
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.226 -5.670 -4.416
T123=14.7 16.1 18.2
ALT/AZ=77.3 -103.2
fwAVG=4.09
sdW=22.7
fwW=4.21
sdS=22.9
fwS=4.11
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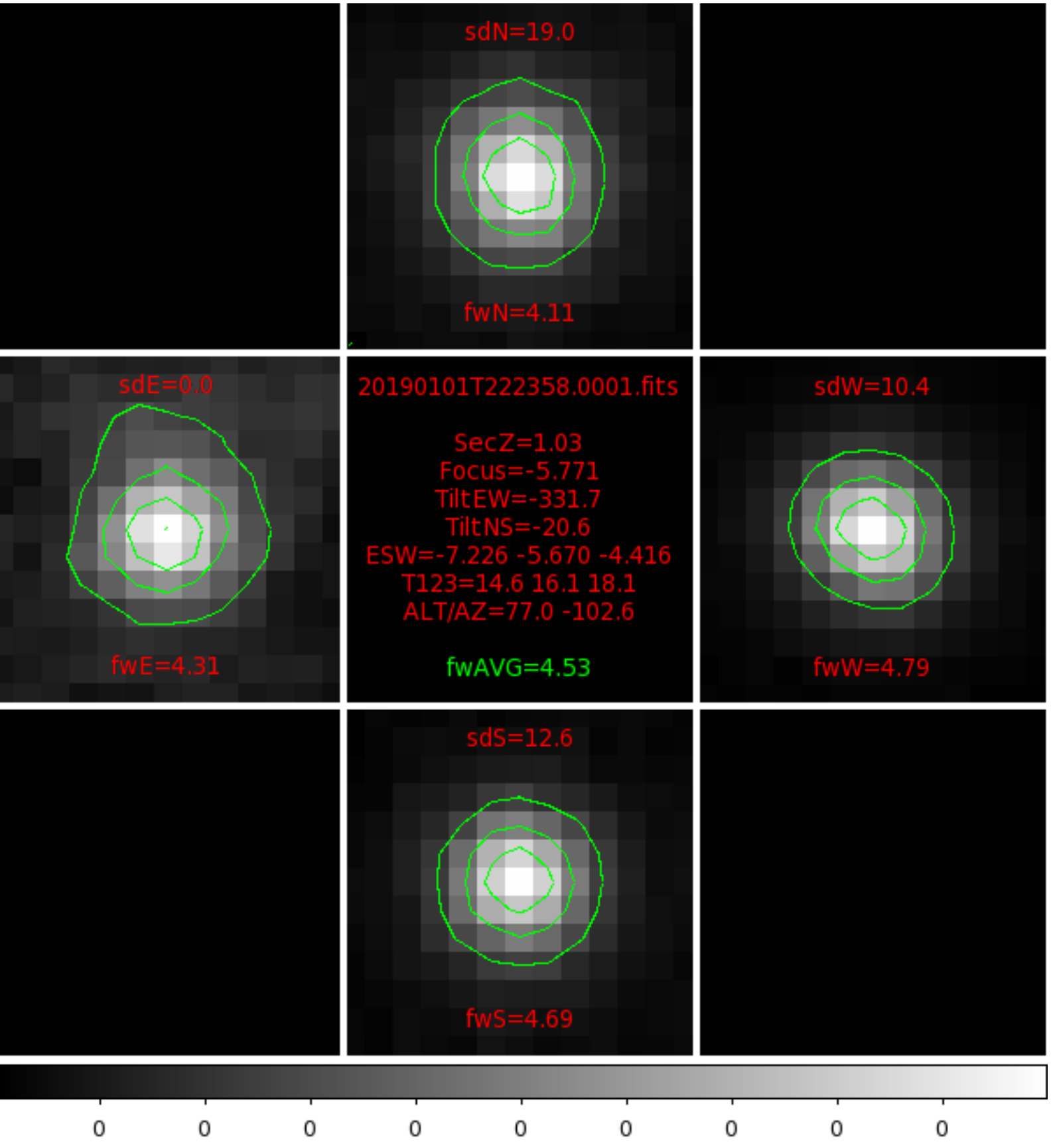
sdN=19.0
fwN=4.11
sdE=0.0
fwE=4.31
20190101T222358.0001.fits
SecZ=1.03
Focus=-5.771
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.226 -5.670 -4.416
T123=14.6 16.1 18.1
ALT/AZ=77.0 -102.6
fwAVG=4.53
sdW=10.4
fwW=4.79
sdS=12.6
fwS=4.69
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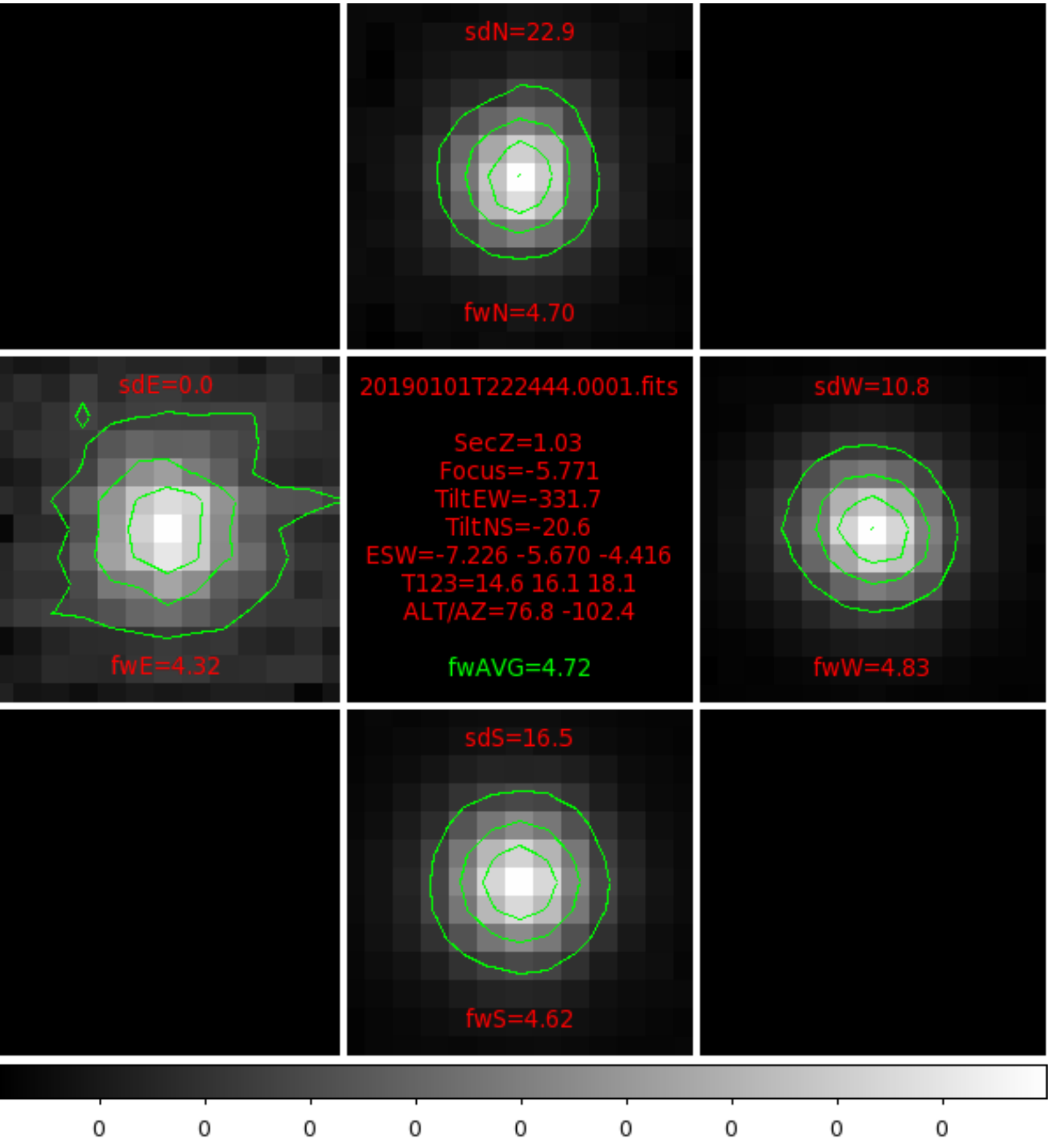
sdN=22.9
fwN=4.70
sdE=0.0
fwE=4.32
20190101T222444.0001.fits
SecZ=1.03
Focus=-5.771
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.226 -5.670 -4.416
T123=14.6 16.1 18.1
ALT/AZ=76.8 -102.4
fwAVG=4.72
sdW=10.8
fwW=4.83
sdS=16.5
fwS=4.62
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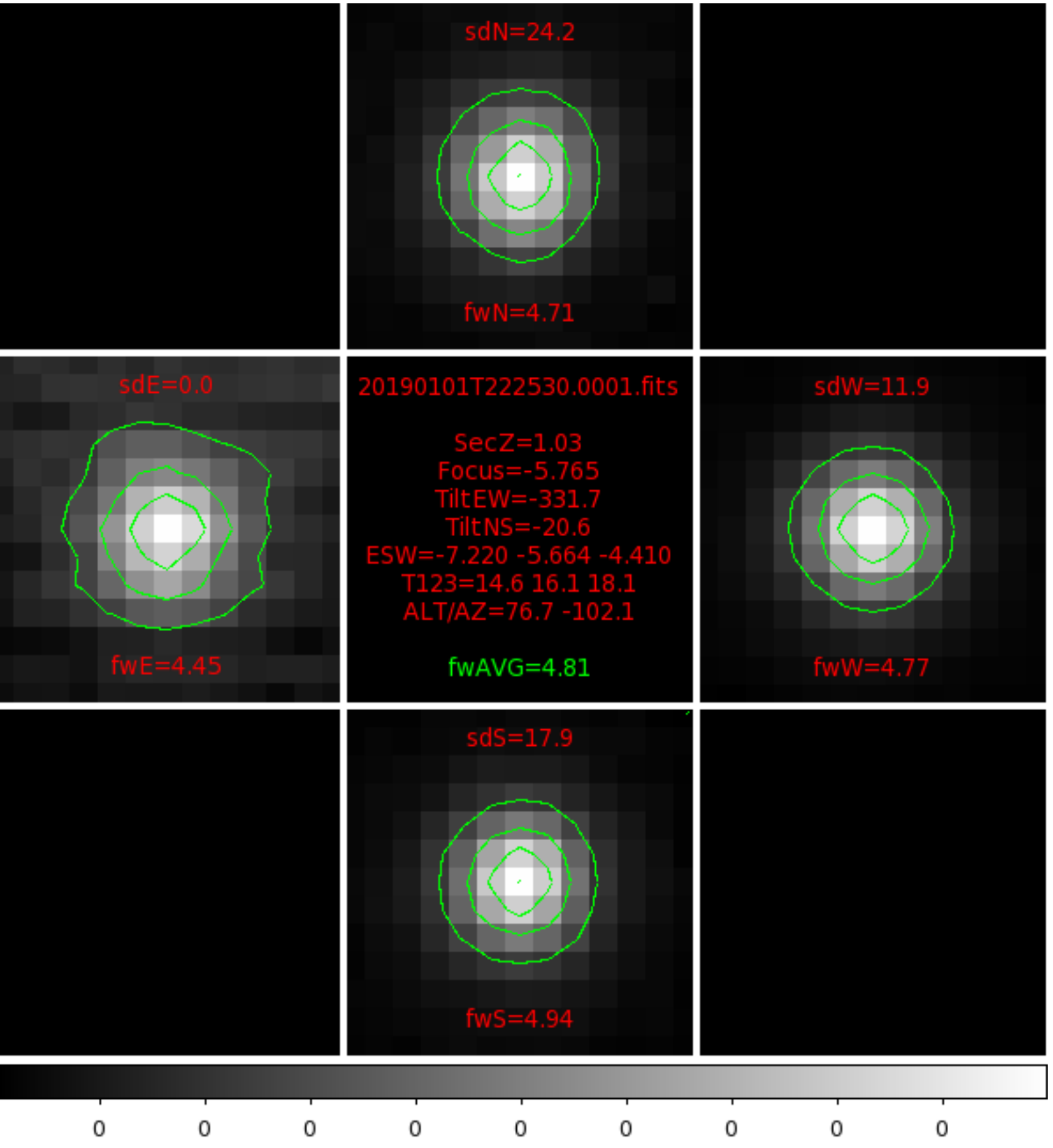
sdN=24.2
fwN=4.71
sdE=0.0
fwE=4.45
20190101T222530.0001.fits
SecZ=1.03
Focus=-5.765
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.220 -5.664 -4.410
T123=14.6 16.1 18.1
ALT/AZ=76.7 -102.1
fwAVG=4.81
sdW=11.9
fwW=4.77
sdS=17.9
fwS=4.94
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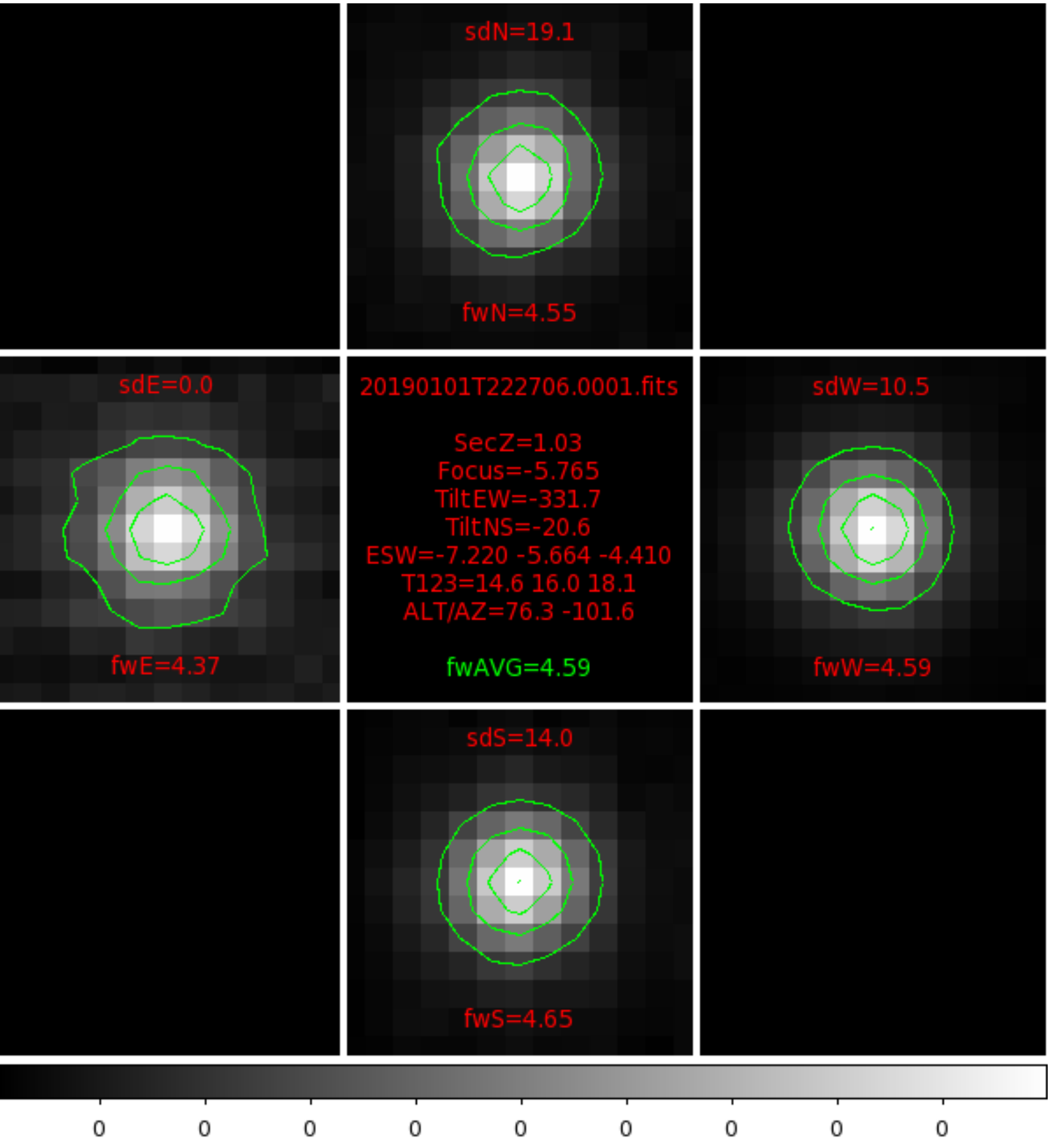
sdN=19.1
fwN=4.55
sdE=0.0
fwE=4.37
20190101T222706.0001.fits
SecZ=1.03
Focus=-5.765
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.220 -5.664 -4.410
T123=14.6 16.0 18.1
ALT/AZ=76.3 -101.6
fwAVG=4.59
sdW=10.5
fwW=4.59
sdS=14.0
fwS=4.65
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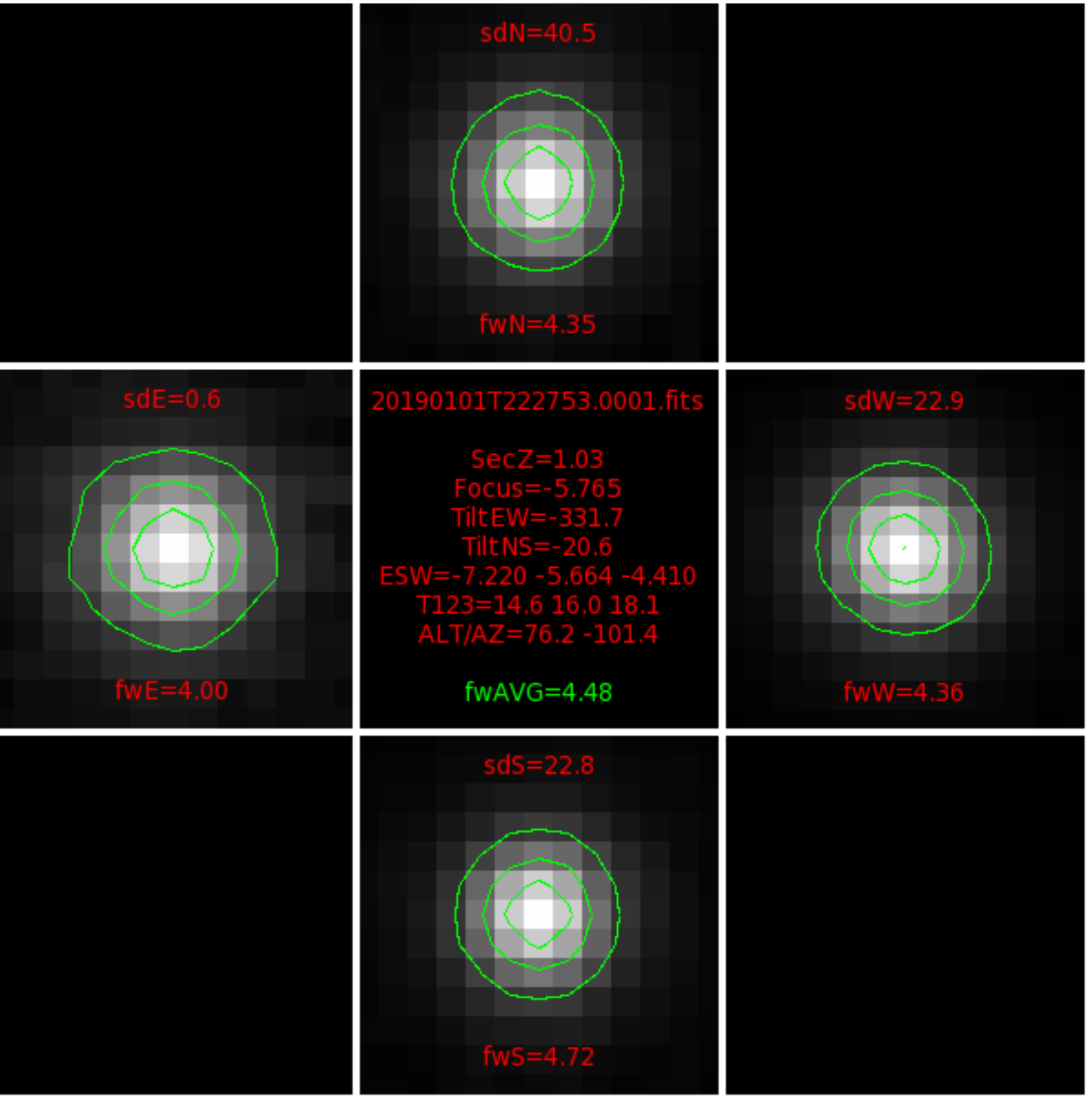
sdN=40.5
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sdE=0.6
fwE=4.00
20190101T222753.0001.fits
SecZ=1.03
Focus=-5.765
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.220 -5.664 -4.410
T123=14.6 16.0 18.1
ALT/AZ=76.2 -101.4
fwAVG=4.48
sdW=22.9
fwW=4.36
sdS=22.8
fwS=4.72
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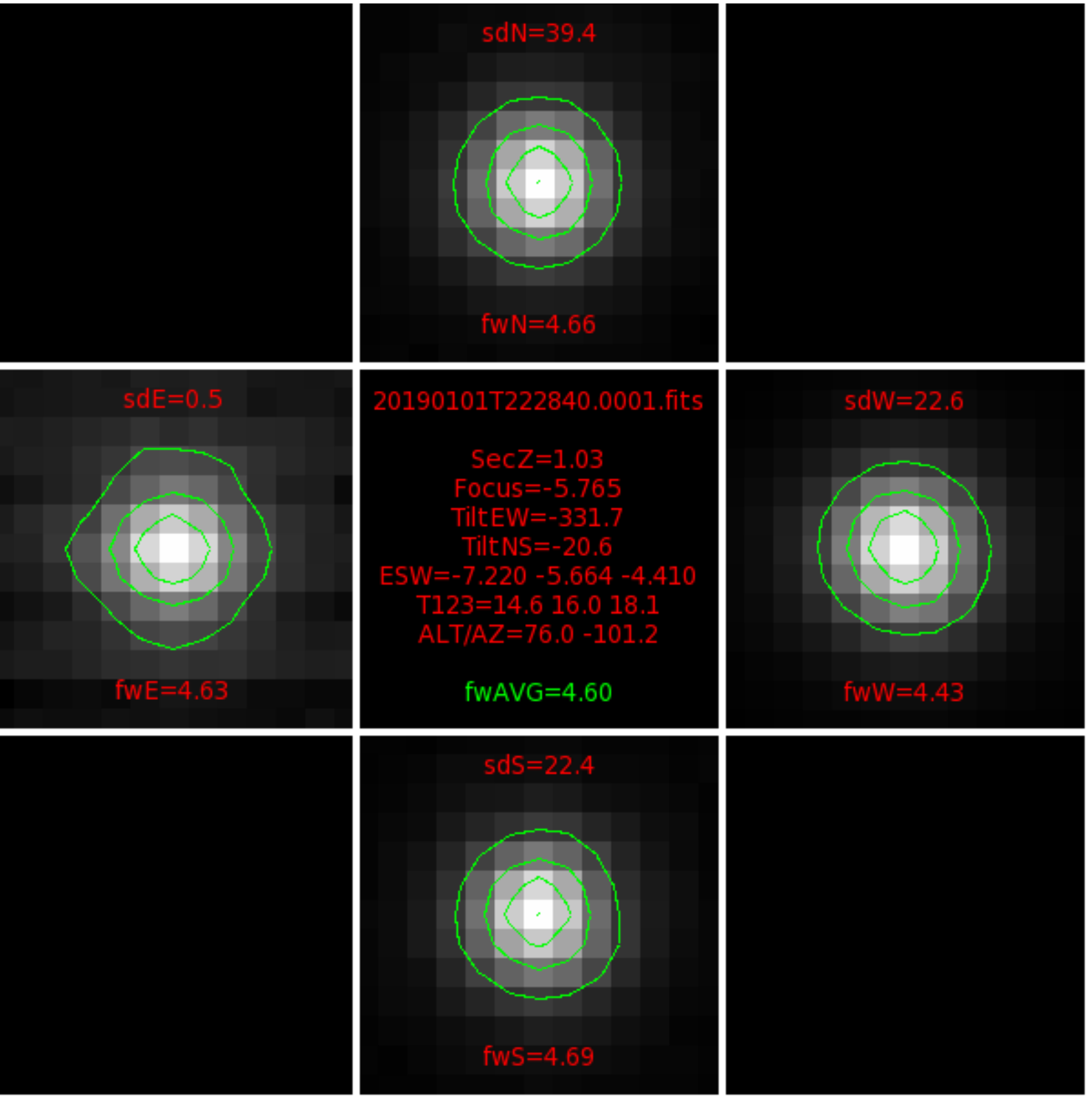
sdN=39.4
fwN=4.66
sdE=0.5
fwE=4.63
20190101T222840.0001.fits
SecZ=1.03
Focus=-5.765
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.220 -5.664 -4.410
T123=14.6 16.0 18.1
ALT/AZ=76.0 -101.2
fwAVG=4.60
sdW=22.6
fwW=4.43
sdS=22.4
fwS=4.69
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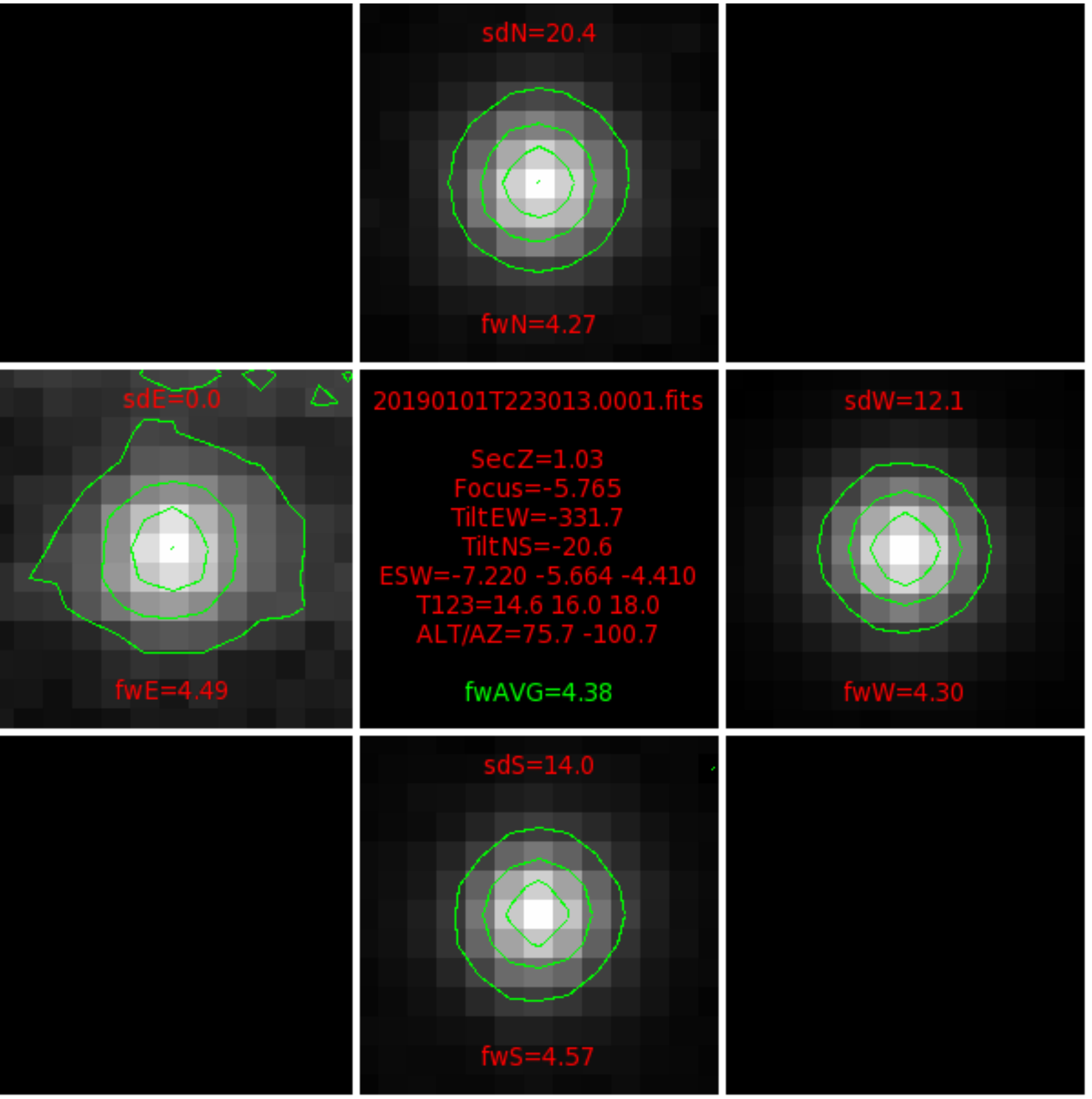
sdN=20.4
fwN=4.27
sdE=0.0
fwE=4.49
20190101T223013.0001.fits
SecZ=1.03
Focus=-5.765
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.220 -5.664 -4.410
T123=14.6 16.0 18.0
ALT/AZ=75.7 -100.7
fwAVG=4.38
sdW=12.1
fwW=4.30
sdS=14.0
fwS=4.57
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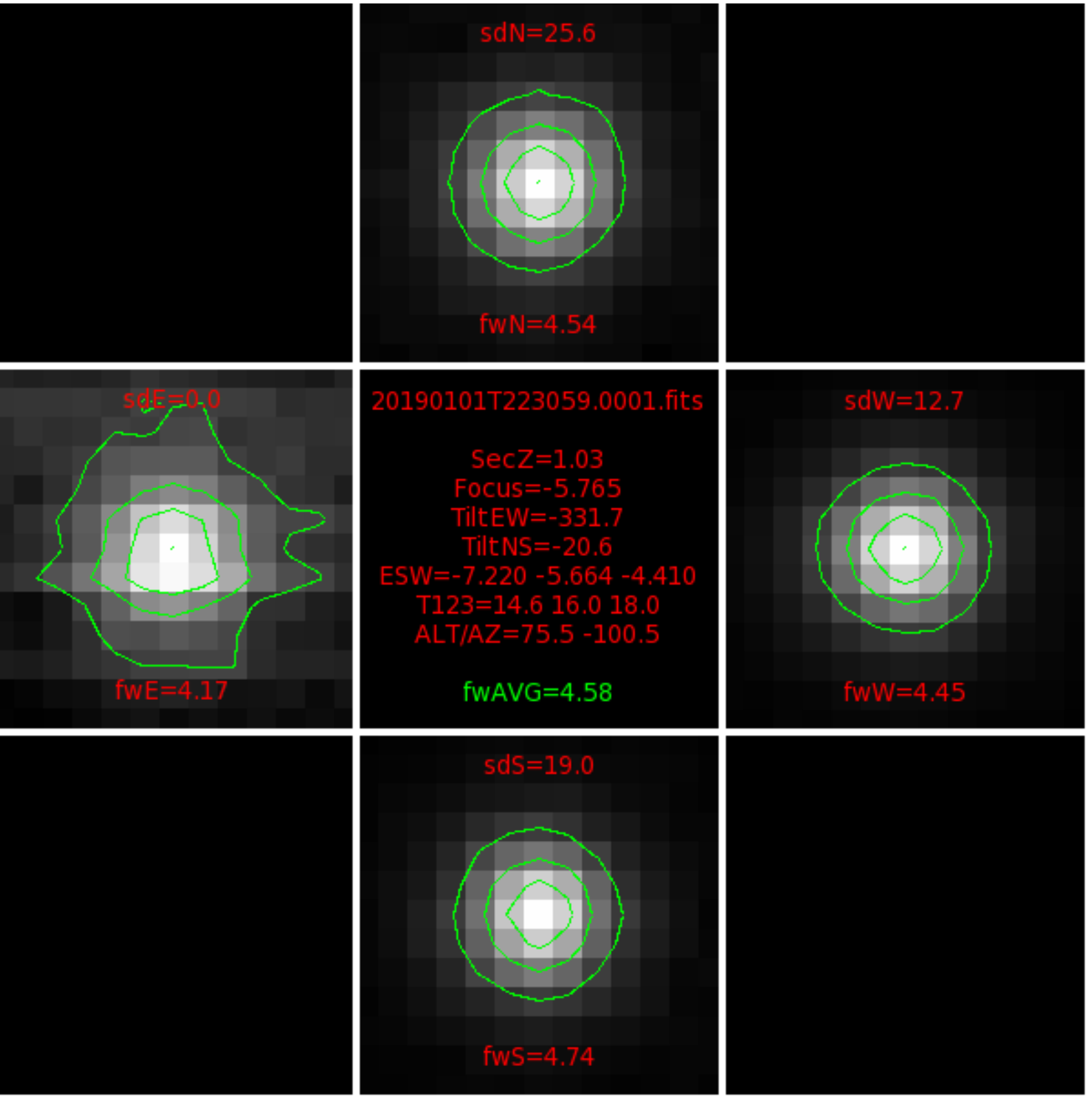
sdN=25.6
fwN=4.54
sdE=0.0
fwE=4.17
20190101T223059.0001.fits
SecZ=1.03
Focus=-5.765
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.220 -5.664 -4.410
T123=14.6 16.0 18.0
ALT/AZ=75.5 -100.5
fwAVG=4.58
sdW=12.7
fwW=4.45
sdS=19.0
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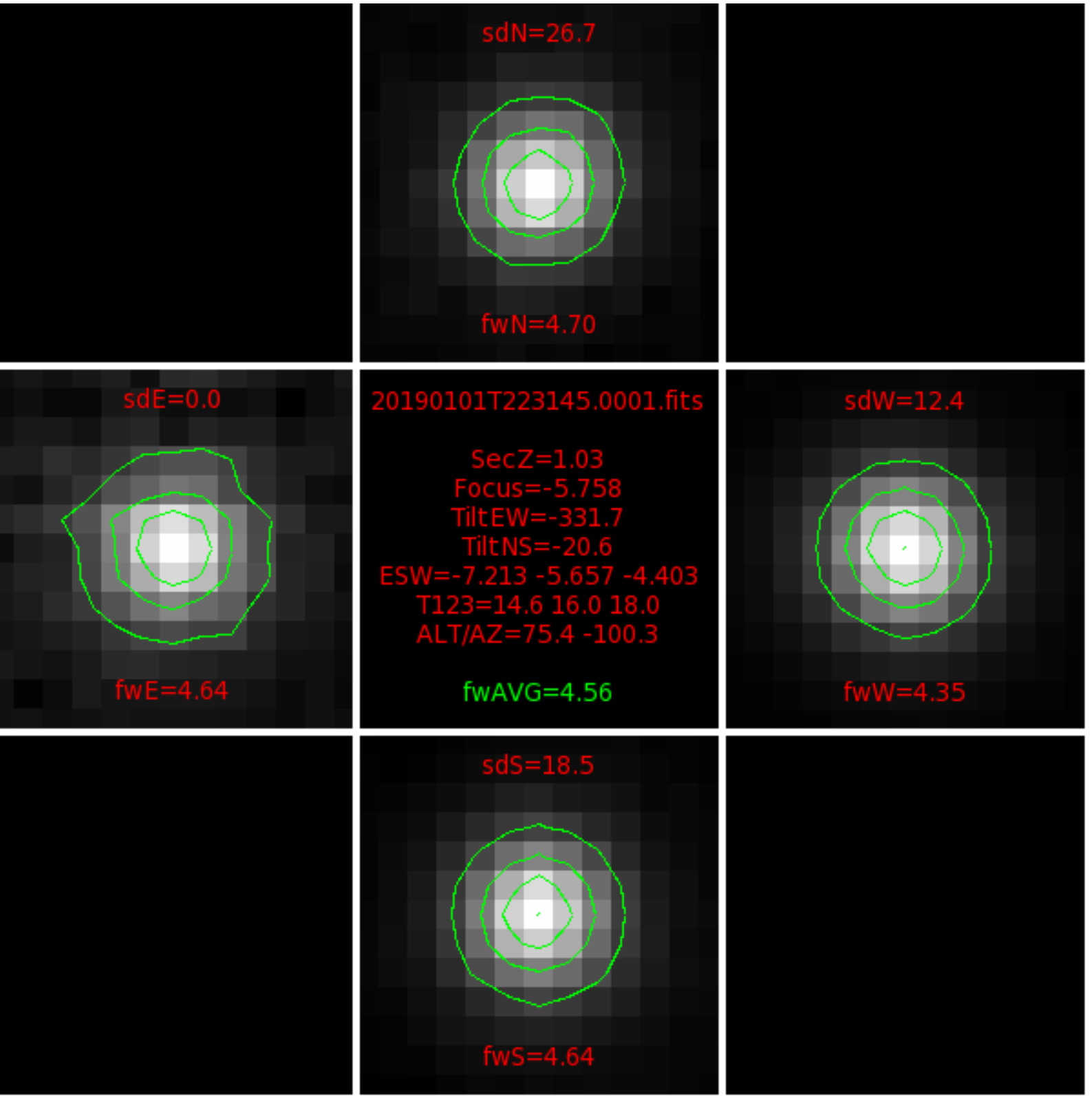
sdN=26.7
fwN=4.70
sdE=0.0
fwE=4.64
20190101T223145.0001.fits
SecZ=1.03
Focus=-5.758
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.213 -5.657 -4.403
T123=14.6 16.0 18.0
ALT/AZ=75.4 -100.3
fwAVG=4.56
sdW=12.4
fwW=4.35
sdS=18.5
fwS=4.64
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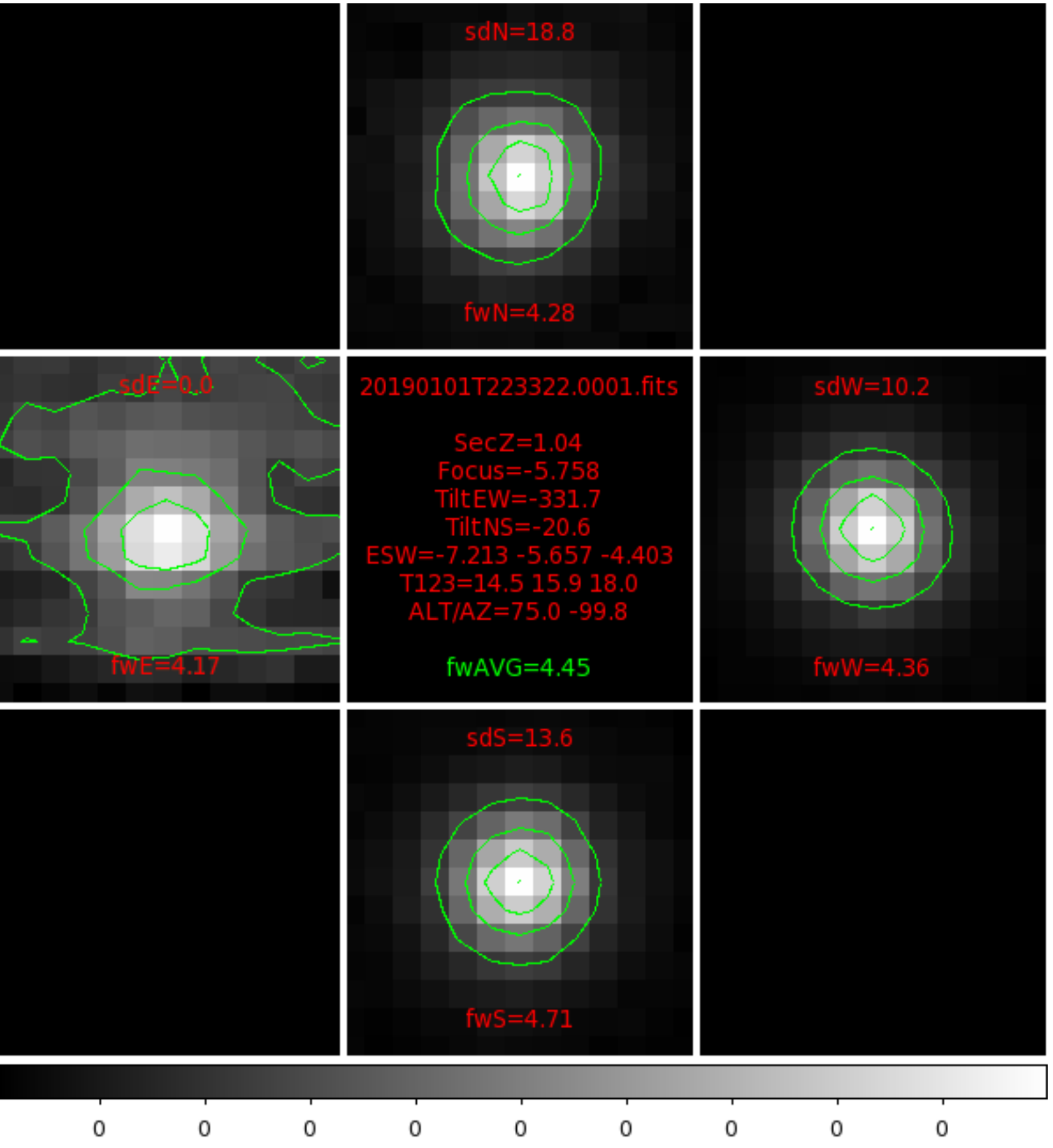
sdN=18.8
fwN=4.28
sdE=0.0
fwE=4.17
20190101T223322.0001.fits
SecZ=1.04
Focus=-5.758
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.213 -5.657 -4.403
T123=14.5 15.9 18.0
ALT/AZ=75.0 -99.8
fwAVG=4.45
sdW=10.2
fwW=4.36
sdS=13.6
fwS=4.71
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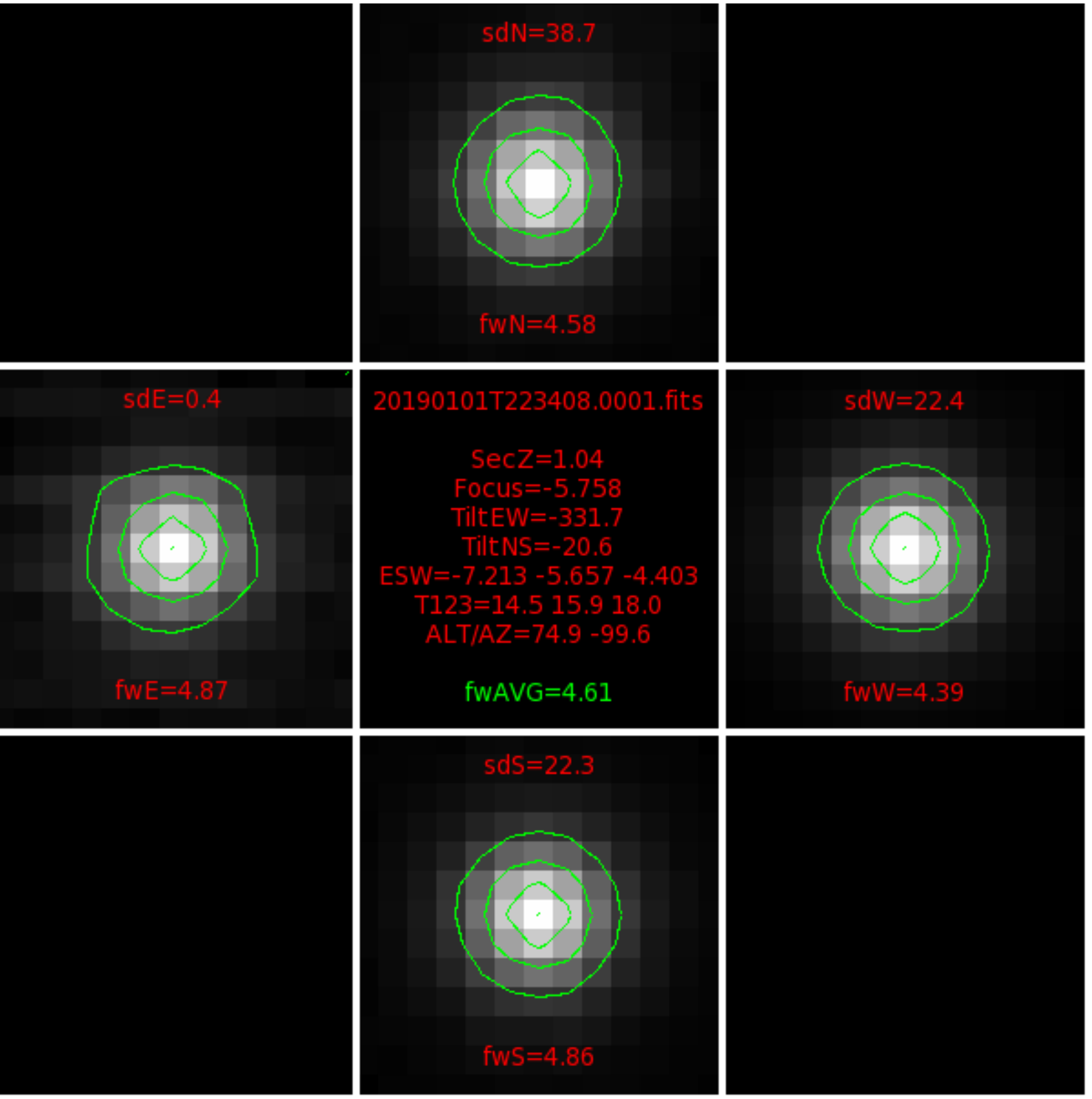
sdN=38.7
fwN=4.58
sdE=0.4
fwE=4.87
20190101T223408.0001.fits
SecZ=1.04
Focus=-5.758
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.213 -5.657 -4.403
T123=14.5 15.9 18.0
ALT/AZ=74.9 -99.6
fwAVG=4.61
sdW=22.4
fwW=4.39
sdS=22.3
fwS=4.86
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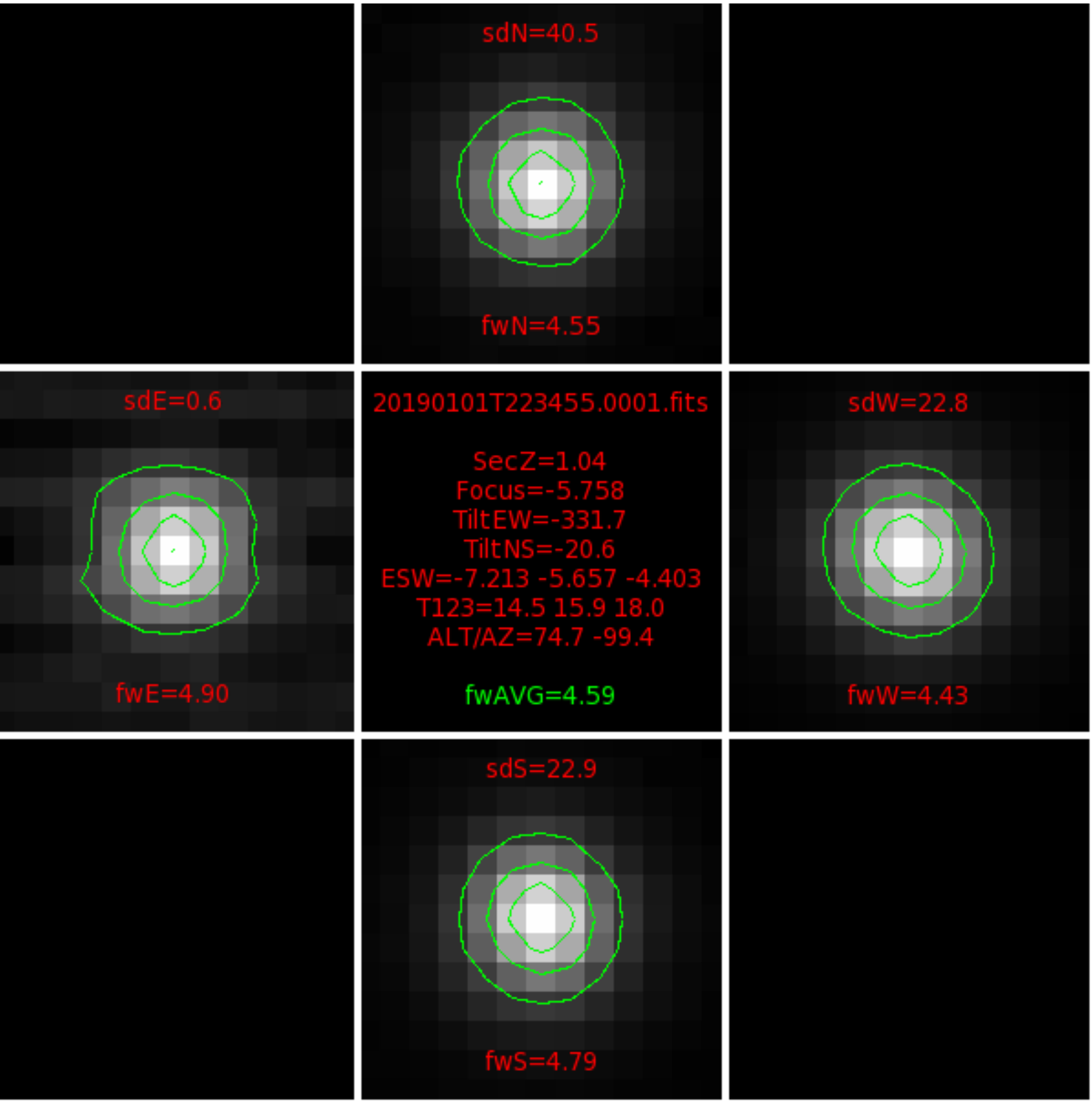
sdN=40.5
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sdE=0.6
fwE=4.90
20190101T223455.0001.fits
SecZ=1.04
Focus=-5.758
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.213 -5.657 -4.403
T123=14.5 15.9 18.0
ALT/AZ=74.7 -99.4
fwAVG=4.59
sdW=22.8
fwW=4.43
sdS=22.9
fwS=4.79
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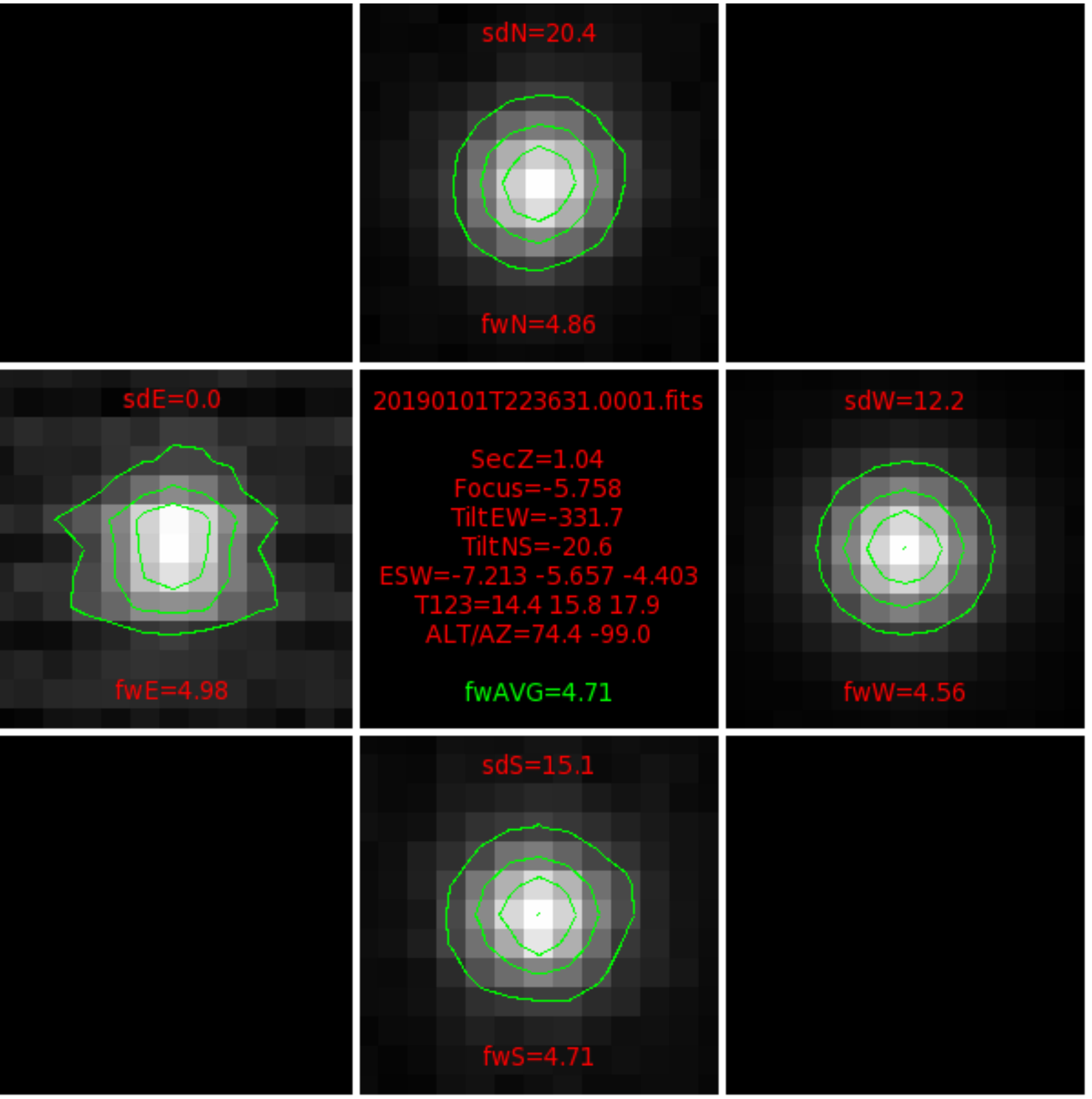
sdN=20.4
fwN=4.86
sdE=0.0
fwE=4.98
20190101T223631.0001.fits
SecZ=1.04
Focus=-5.758
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.213 -5.657 -4.403
T123=14.4 15.8 17.9
ALT/AZ=74.4 -99.0
fwAVG=4.71
sdW=12.2
fwW=4.56
sdS=15.1
fwS=4.71
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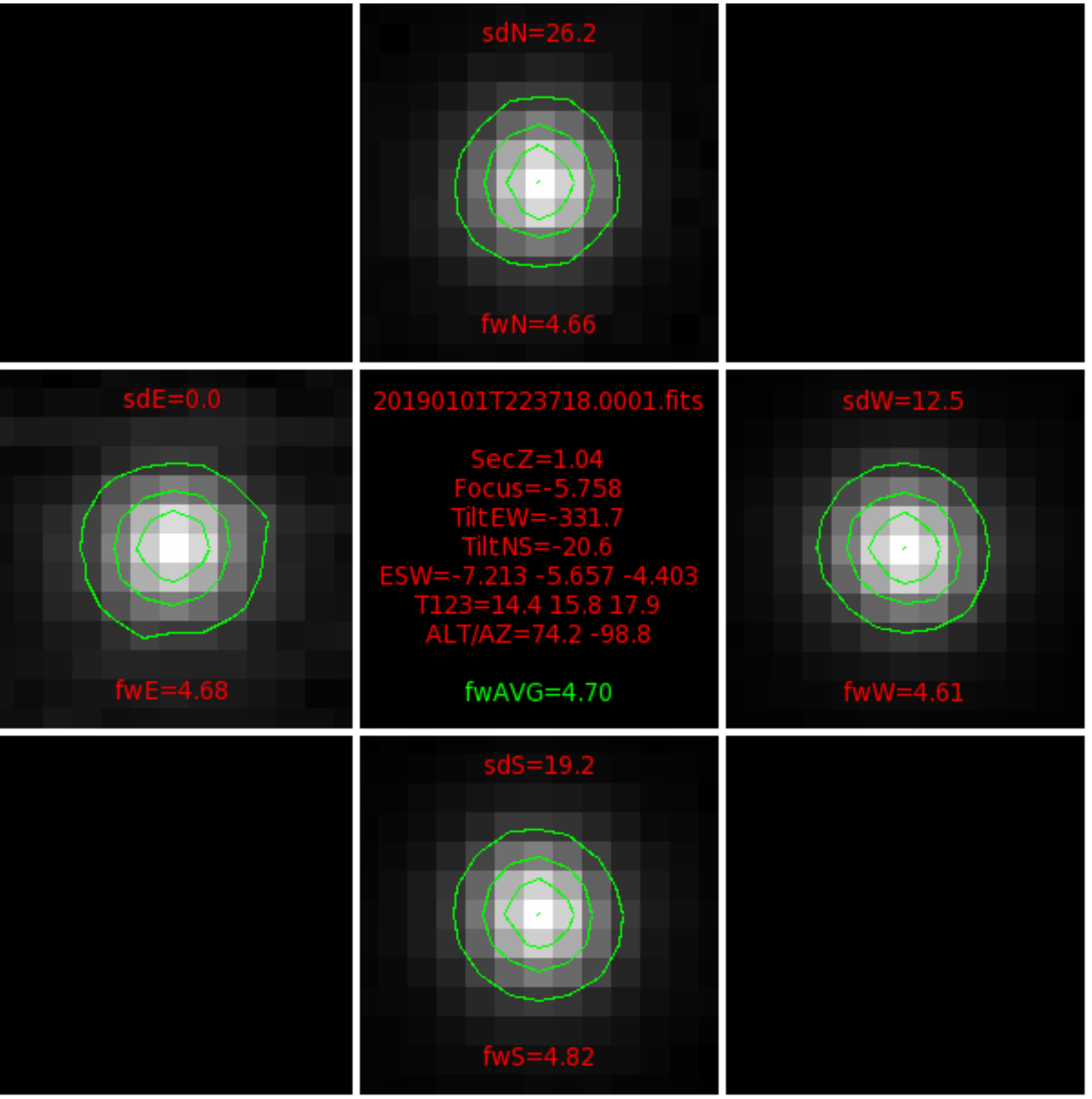
sdN=26.2
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sdE=0.0
fwE=4.68
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SecZ=1.04
Focus=-5.758
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.213 -5.657 -4.403
T123=14.4 15.8 17.9
ALT/AZ=74.2 -98.8
fwAVG=4.70
sdW=12.5
fwW=4.61
sdS=19.2
fwS=4.82
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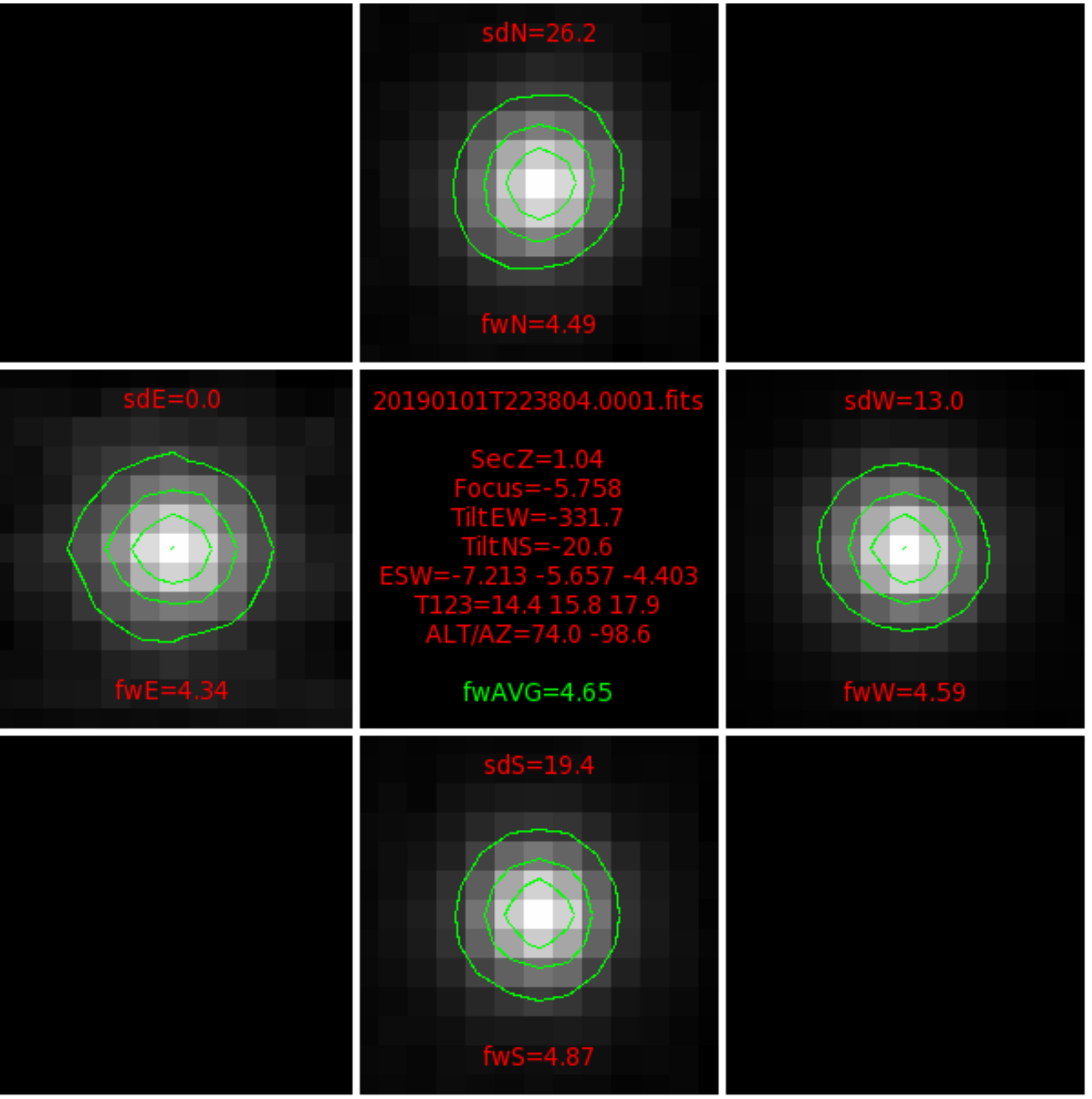
sdN=26.2
fwN=4.49
sdE=0.0
fwE=4.34
20190101T223804.0001.fits
SecZ=1.04
Focus=-5.758
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.213 -5.657 -4.403
T123=14.4 15.8 17.9
ALT/AZ=74.0 -98.6
fwAVG=4.65
sdW=13.0
fwW=4.59
sdS=19.4
fwS=4.87
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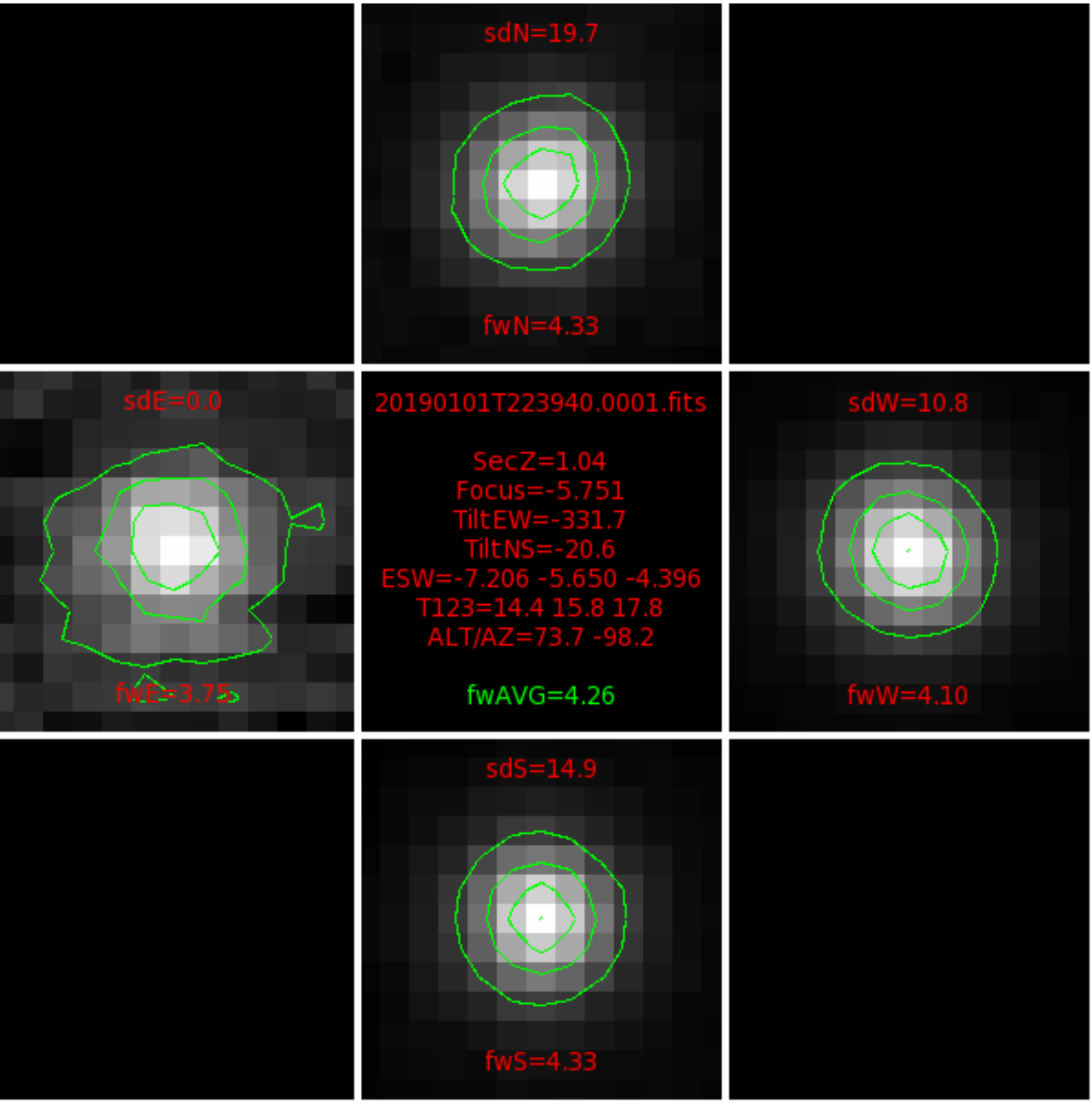
sdN=19.7
fwN=4.33
sdE=0.0
fwE=3.75
20190101T223940.0001.fits
SecZ=1.04
Focus=-5.751
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.206 -5.650 -4.396
T123=14.4 15.8 17.8
ALT/AZ=73.7 -98.2
fwAVG=4.26
sdW=10.8
fwW=4.10
sdS=14.9
fwS=4.33
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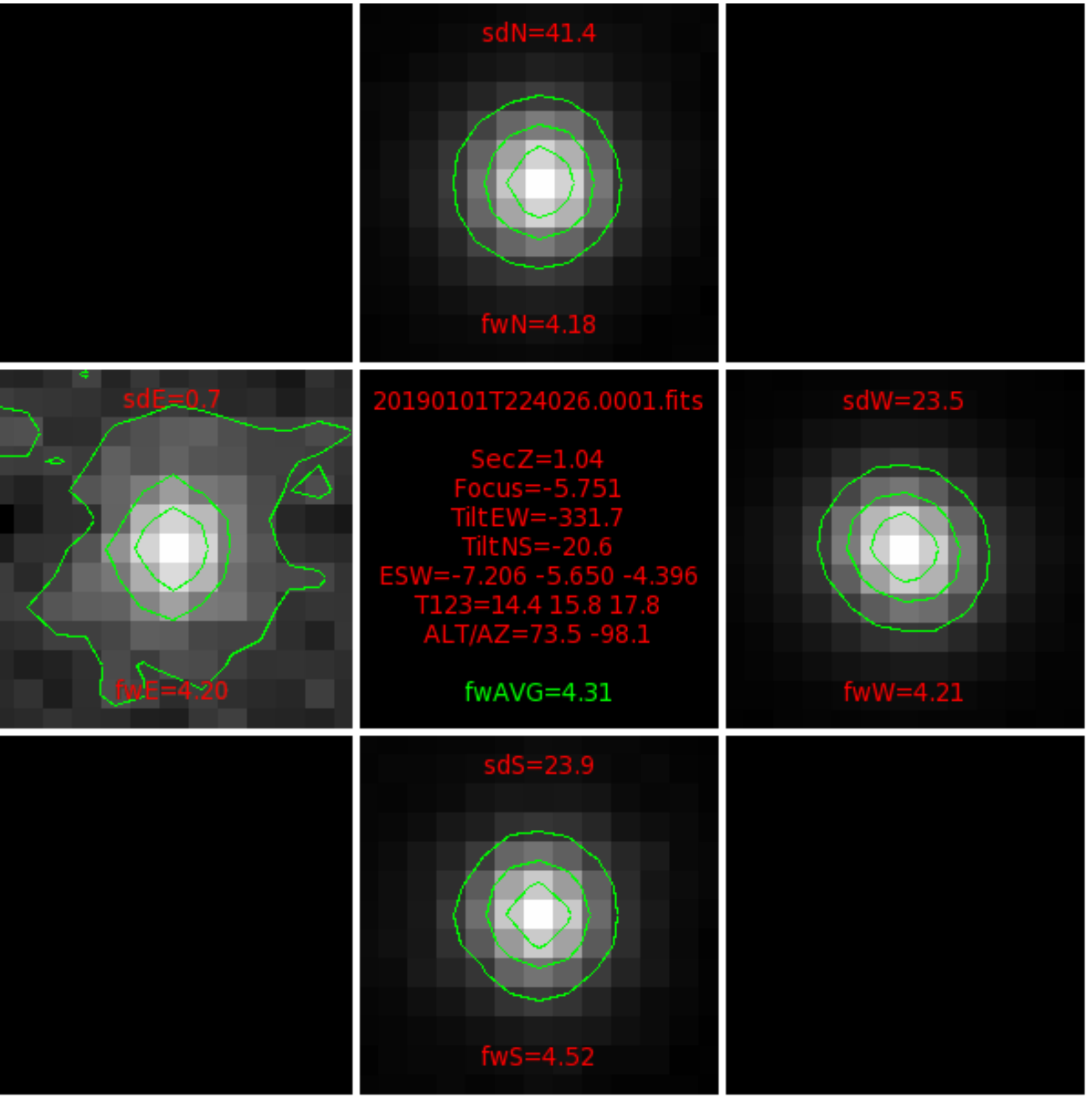
sdN=41.4
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sdE=0.7
fwE=4.20
20190101T224026.0001.fits
SecZ=1.04
Focus=-5.751
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.206 -5.650 -4.396
T123=14.4 15.8 17.8
ALT/AZ=73.5 -98.1
fwAVG=4.31
sdW=23.5
fwW=4.21
sdS=23.9
fwS=4.52
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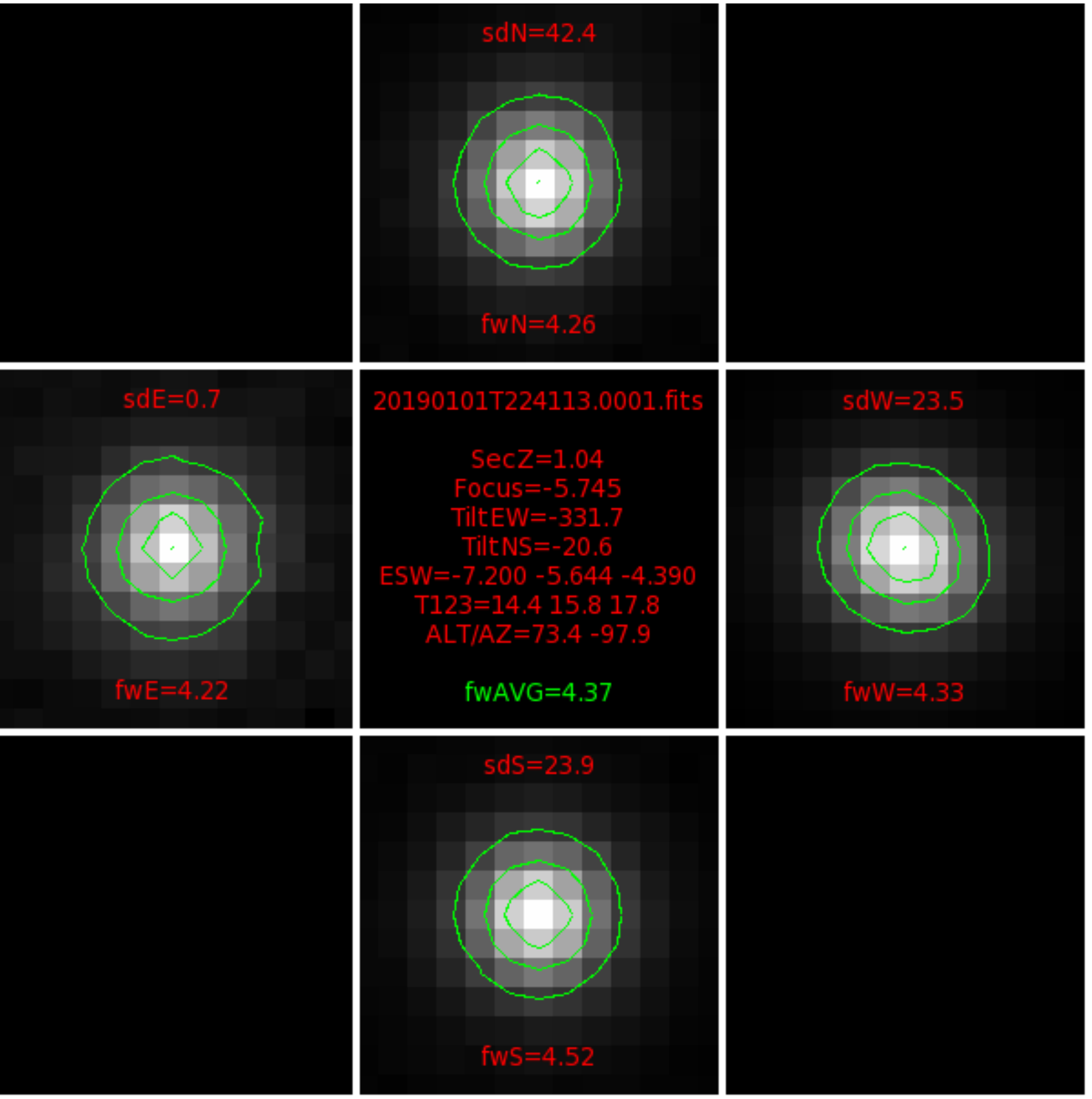
sdN=42.4
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sdE=0.7
fwE=4.22
20190101T224113.0001.fits
SecZ=1.04
Focus=-5.745
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.200 -5.644 -4.390
T123=14.4 15.8 17.8
ALT/AZ=73.4 -97.9
fwAVG=4.37
sdW=23.5
fwW=4.33
sdS=23.9
fwS=4.52
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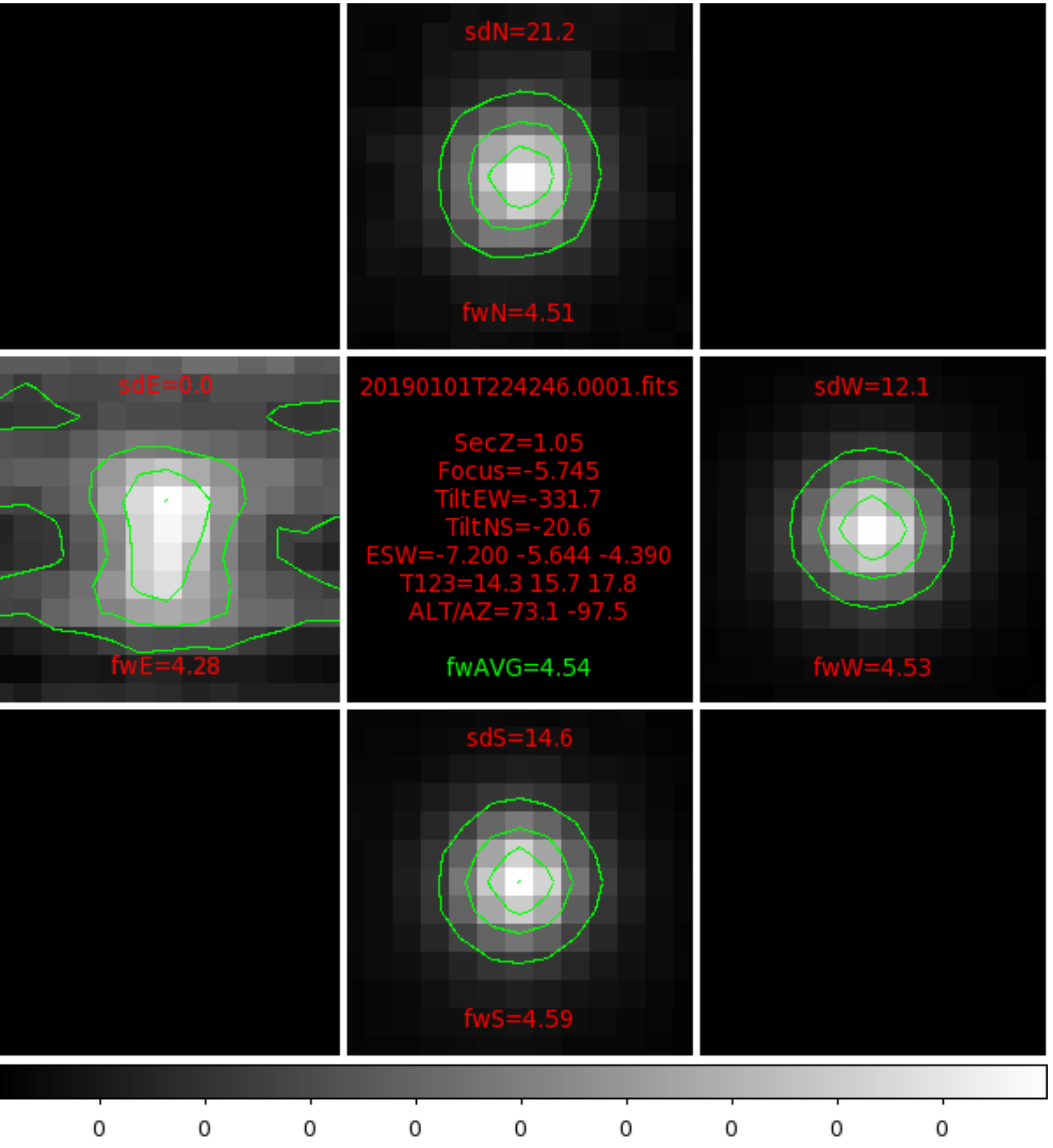
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fwN=4.51
sdE=0.0
fwE=4.28
20190101T224246.0001.fits
SecZ=1.05
Focus=-5.745
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.200 -5.644 -4.390
T123=14.3 15.7 17.8
ALT/AZ=73.1 -97.5
fwAVG=4.54
sdW=12.1
fwW=4.53
sdS=14.6
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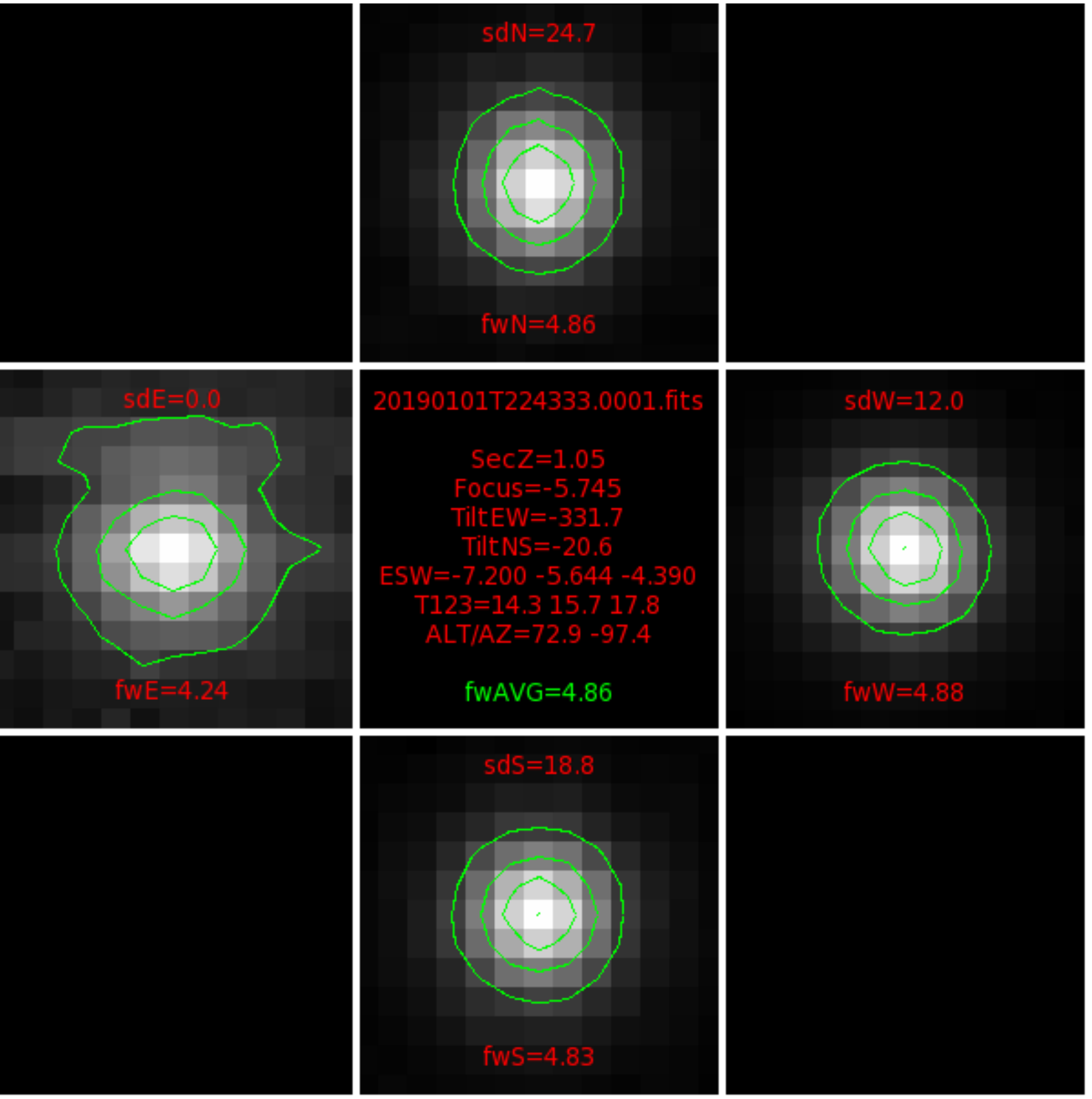
sdN=24.7
fwN=4.86
sdE=0.0
fwE=4.24
20190101T224333.0001.fits
SecZ=1.05
Focus=-5.745
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.200 -5.644 -4.390
T123=14.3 15.7 17.8
ALT/AZ=72.9 -97.4
fwAVG=4.86
sdW=12.0
fwW=4.88
sdS=18.8
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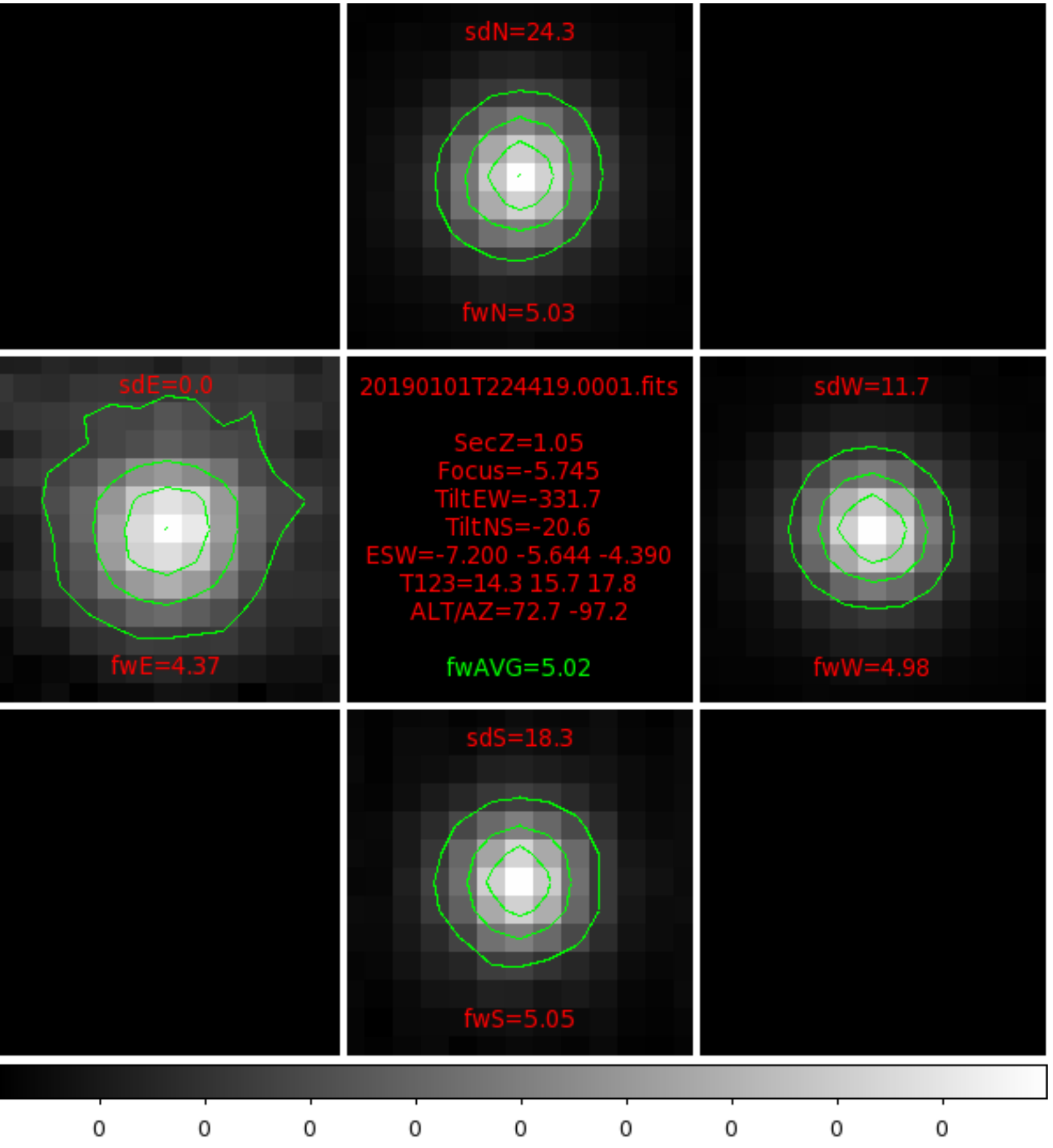
sdN=24.3
fwN=5.03
sdE=0.0
fwE=4.37
20190101T224419.0001.fits
SecZ=1.05
Focus=-5.745
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.200 -5.644 -4.390
T123=14.3 15.7 17.8
ALT/AZ=72.7 -97.2
fwAVG=5.02
sdW=11.7
fwW=4.98
sdS=18.3
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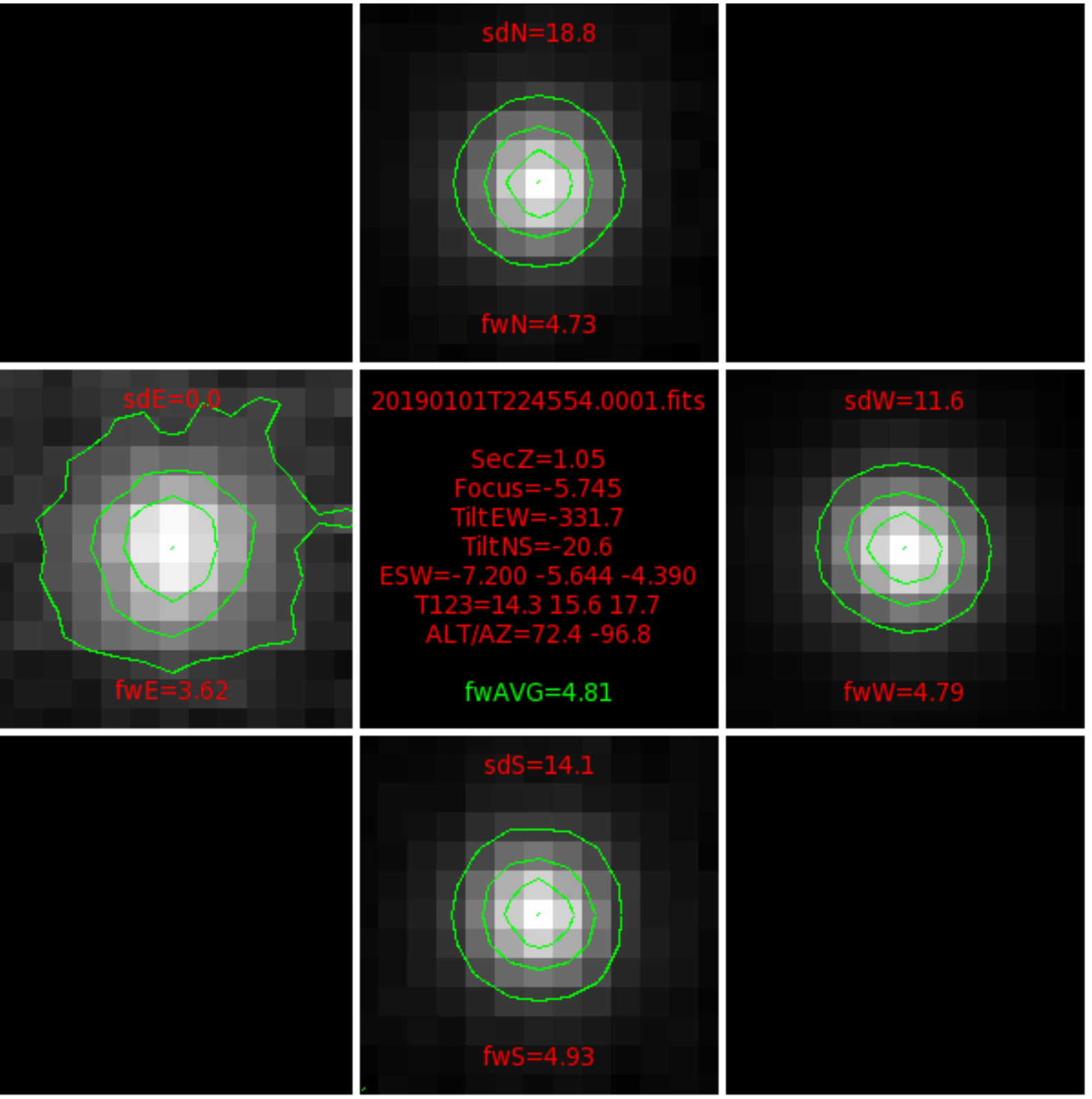
sdN=18.8
fwN=4.73
sdE=0.0
fwE=3.62
20190101T224554.0001.fits
SecZ=1.05
Focus=-5.745
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.200 -5.644 -4.390
T123=14.3 15.6 17.7
ALT/AZ=72.4 -96.8
fwAVG=4.81
sdW=11.6
fwW=4.79
sdS=14.1
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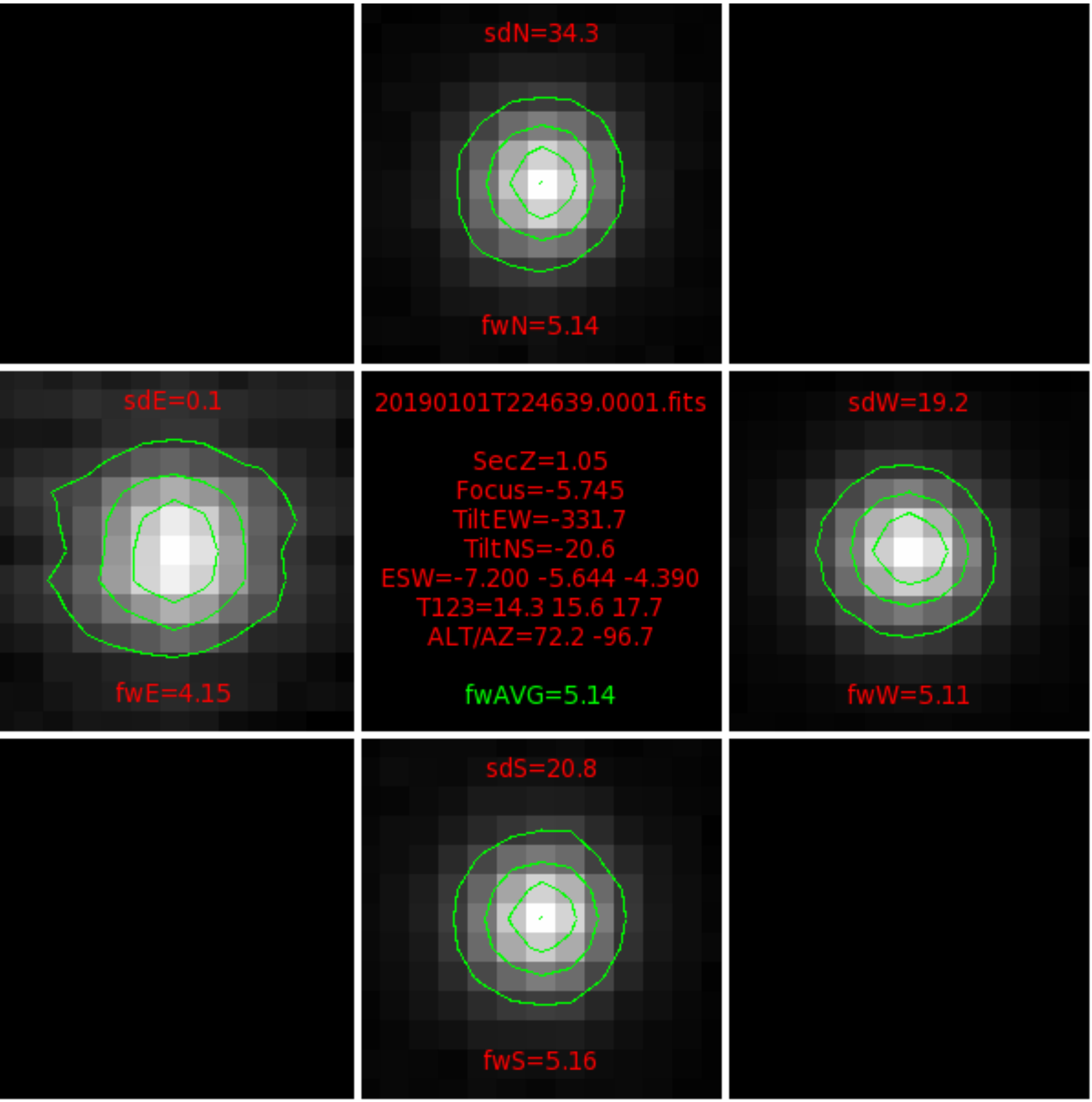
sdN=34.3
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sdE=0.1
fwE=4.15
20190101T224639.0001.fits
SecZ=1.05
Focus=-5.745
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.200 -5.644 -4.390
T123=14.3 15.6 17.7
ALT/AZ=72.2 -96.7
fwAVG=5.14
sdW=19.2
fwW=5.11
sdS=20.8
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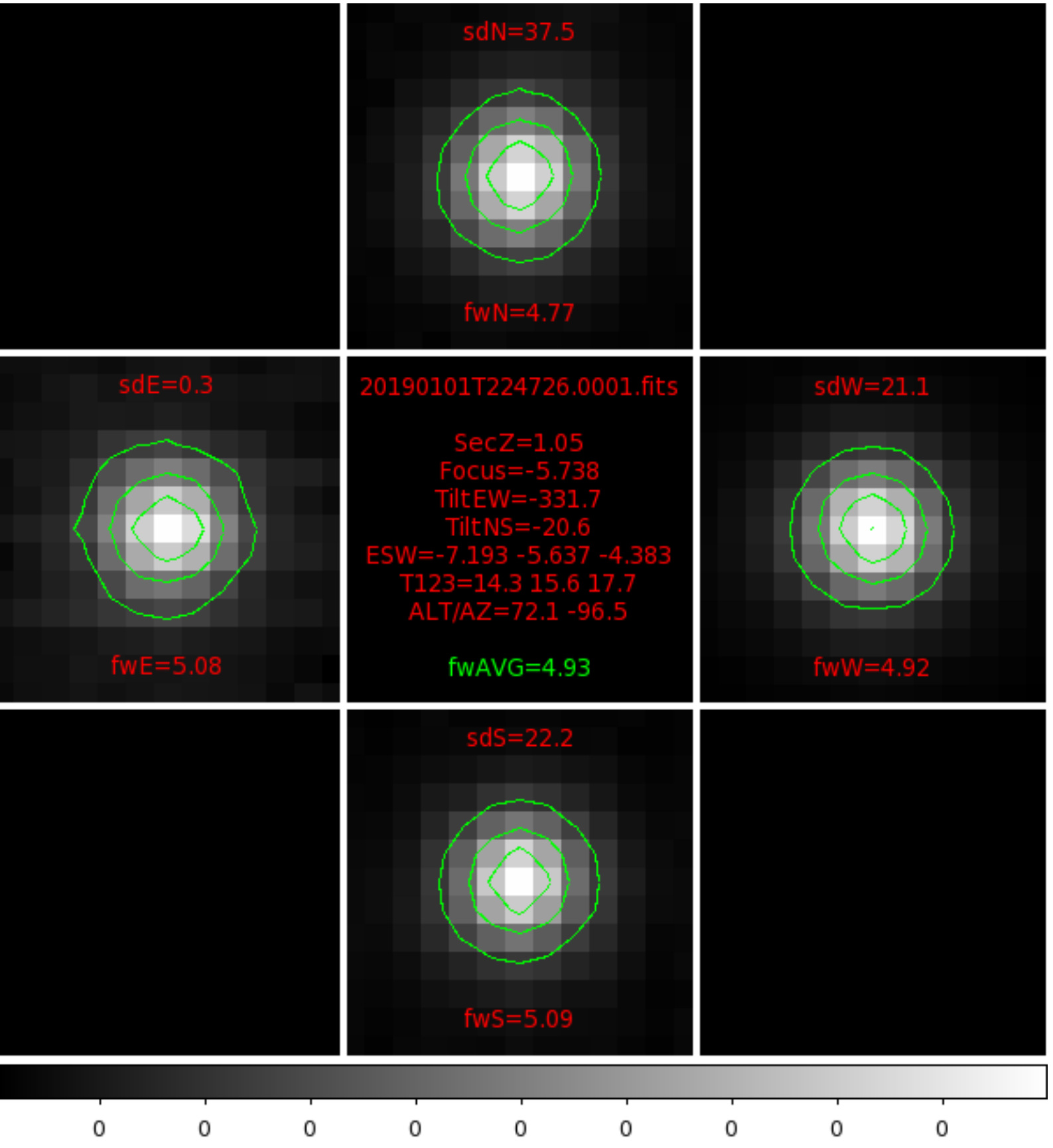
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sdE=0.3
fwE=5.08
20190101T224726.0001.fits
SecZ=1.05
Focus=-5.738
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.193 -5.637 -4.383
T123=14.3 15.6 17.7
ALT/AZ=72.1 -96.5
fwAVG=4.93
sdW=21.1
fwW=4.92
sdS=22.2
fwS=5.09
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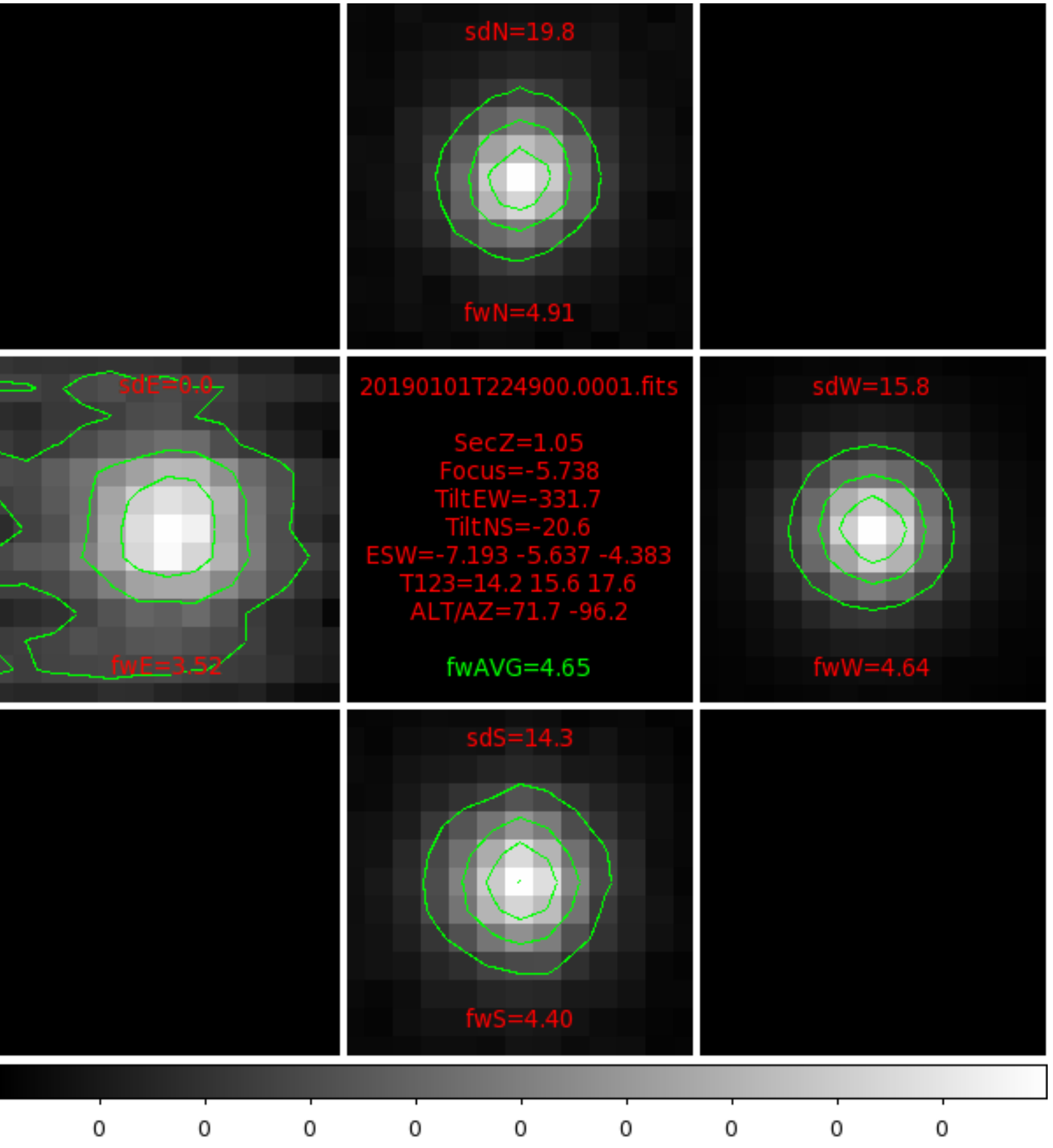
sdN=19.8
fwN=4.91
sdE=0.0
fwE=3.52
20190101T224900.0001.fits
SecZ=1.05
Focus=-5.738
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.193 -5.637 -4.383
T123=14.2 15.6 17.6
ALT/AZ=71.7 -96.2
fwAVG=4.65
sdW=15.8
fwW=4.64
sdS=14.3
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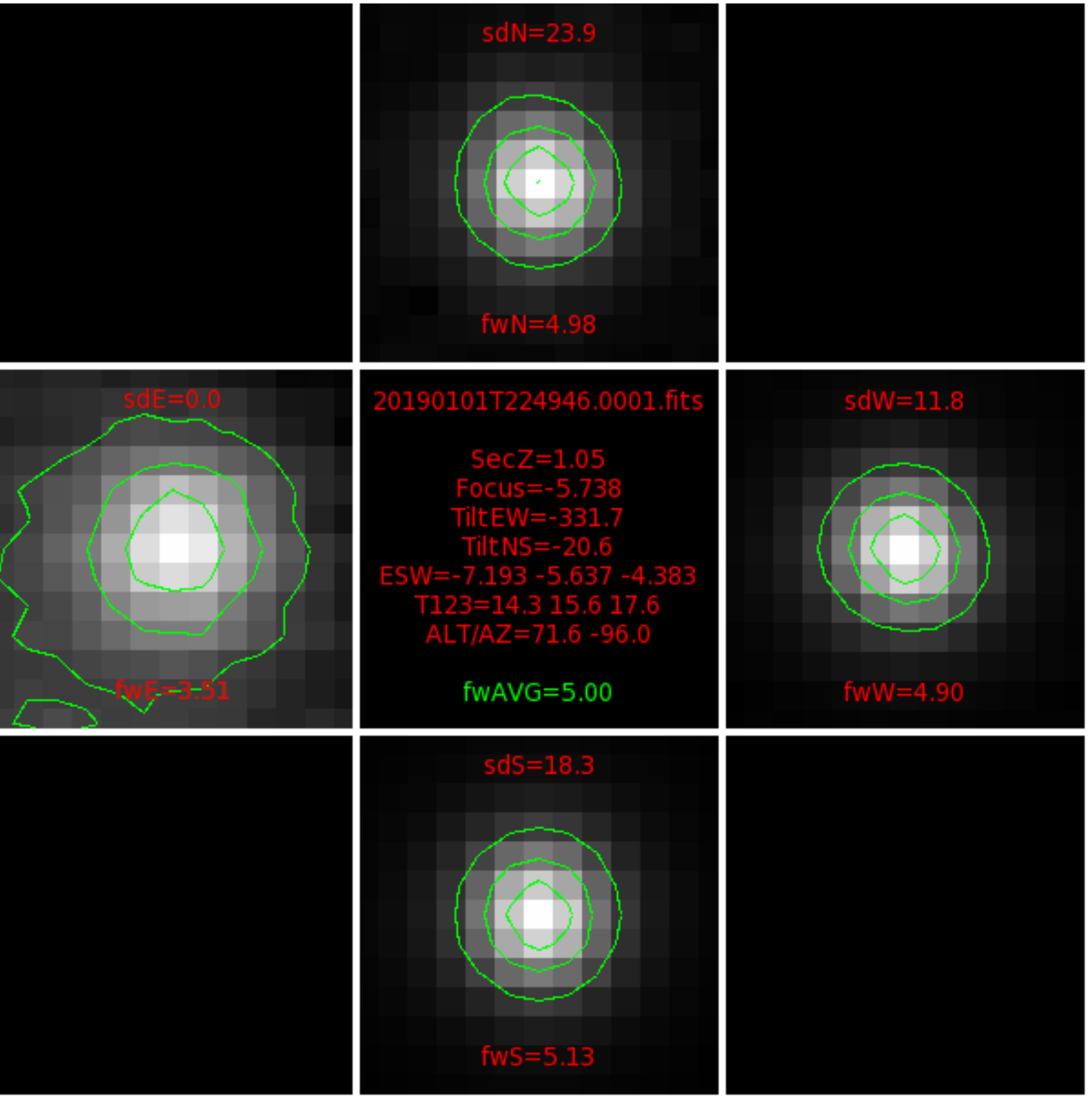
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sdE=0.0
fwE=3.51
20190101T224946.0001.fits
SecZ=1.05
Focus=-5.738
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.193 -5.637 -4.383
T123=14.3 15.6 17.6
ALT/AZ=71.6 -96.0
fwAVG=5.00
sdW=11.8
fwW=4.90
sdS=18.3
fwS=5.13
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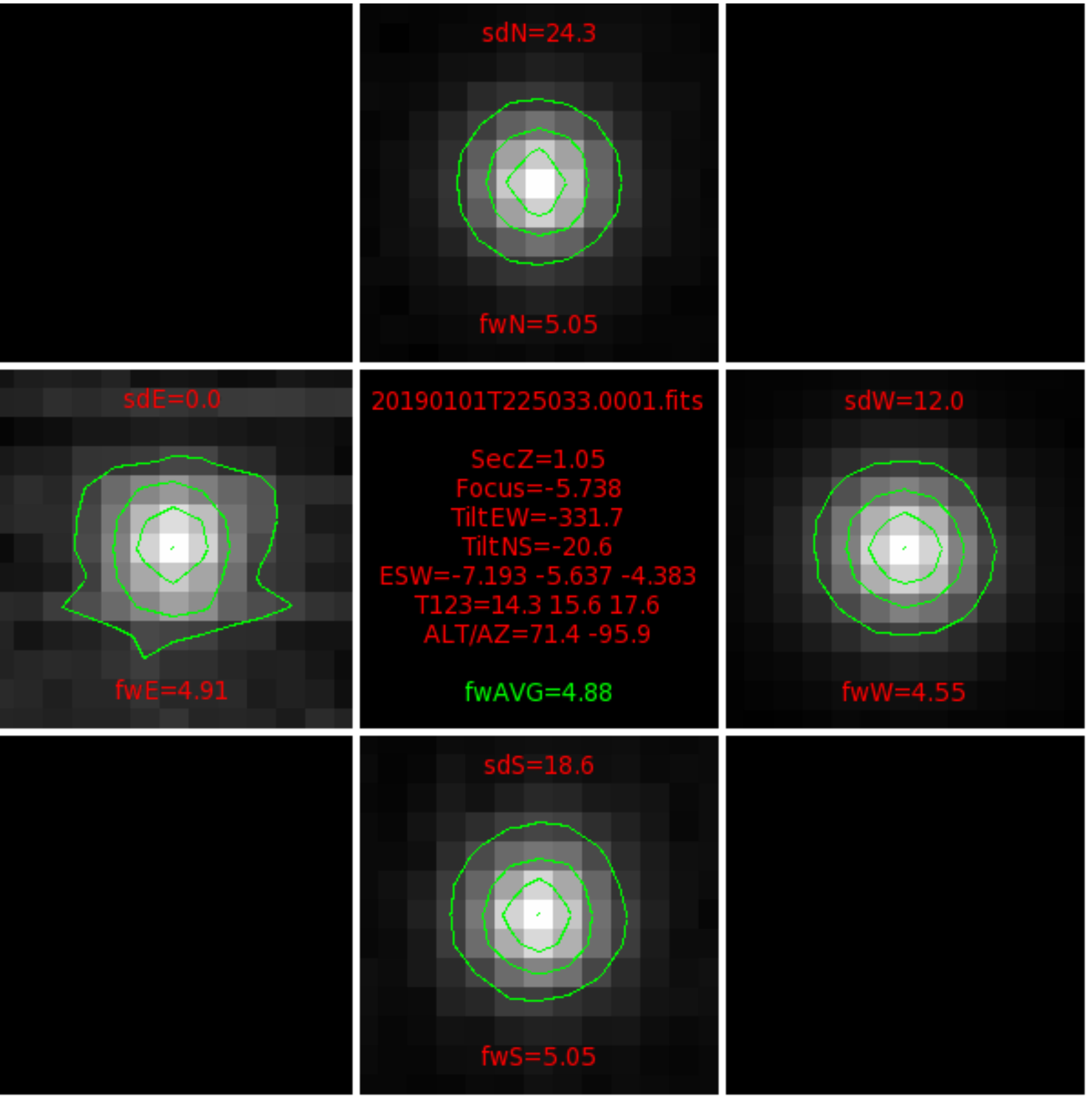
sdN=24.3
fwN=5.05
sdE=0.0
fwE=4.91
20190101T225033.0001.fits
SecZ=1.05
Focus=-5.738
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.193 -5.637 -4.383
T123=14.3 15.6 17.6
ALT/AZ=71.4 -95.9
fwAVG=4.88
sdW=12.0
fwW=4.55
sdS=18.6
fwS=5.05
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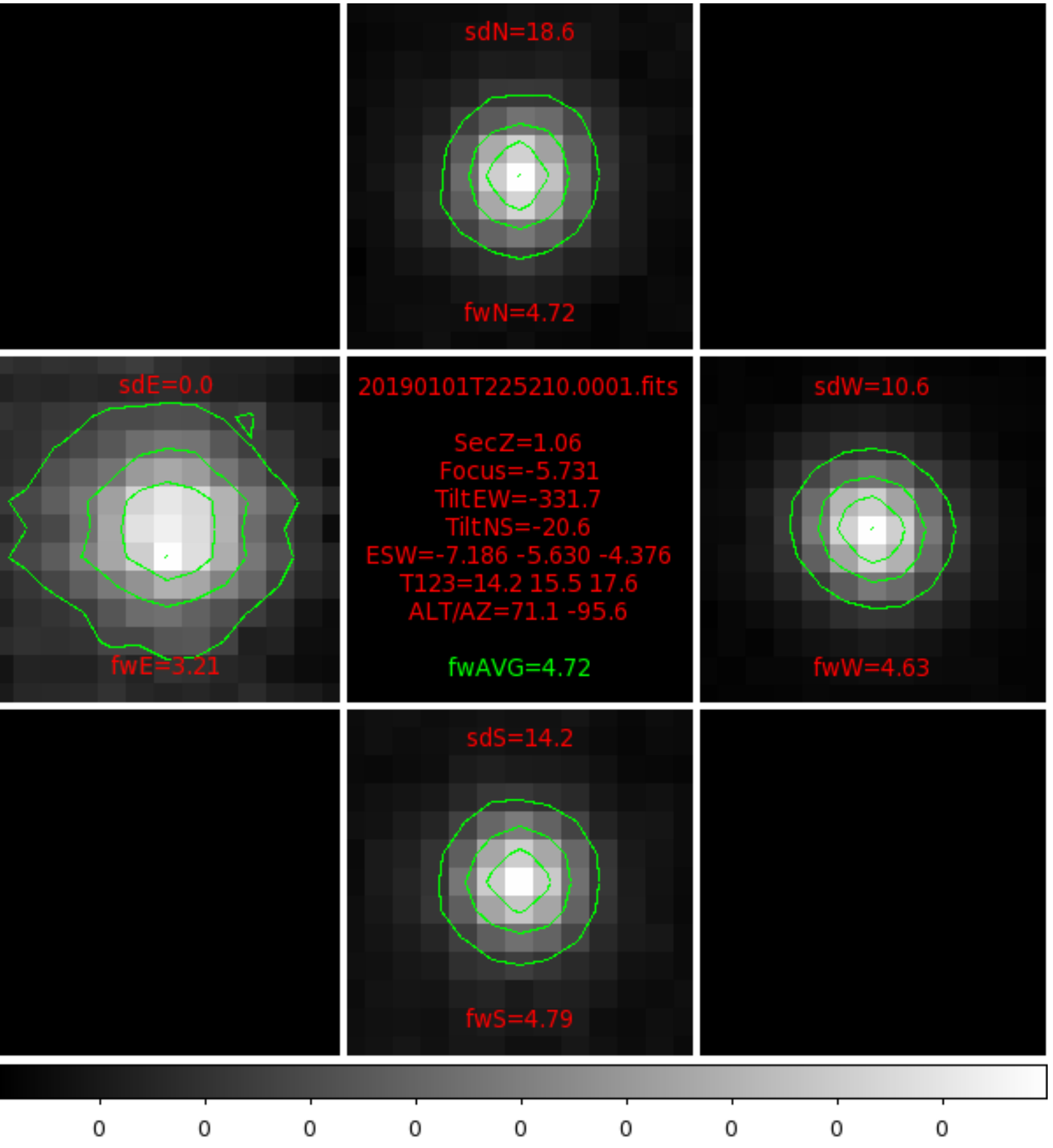
sdN=18.6
fwN=4.72
sdE=0.0
fwE=3.21
20190101T225210.0001.fits
SecZ=1.06
Focus=-5.731
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.186 -5.630 -4.376
T123=14.2 15.5 17.6
ALT/AZ=71.1 -95.6
fwAVG=4.72
sdW=10.6
fwW=4.63
sdS=14.2
fwS=4.79
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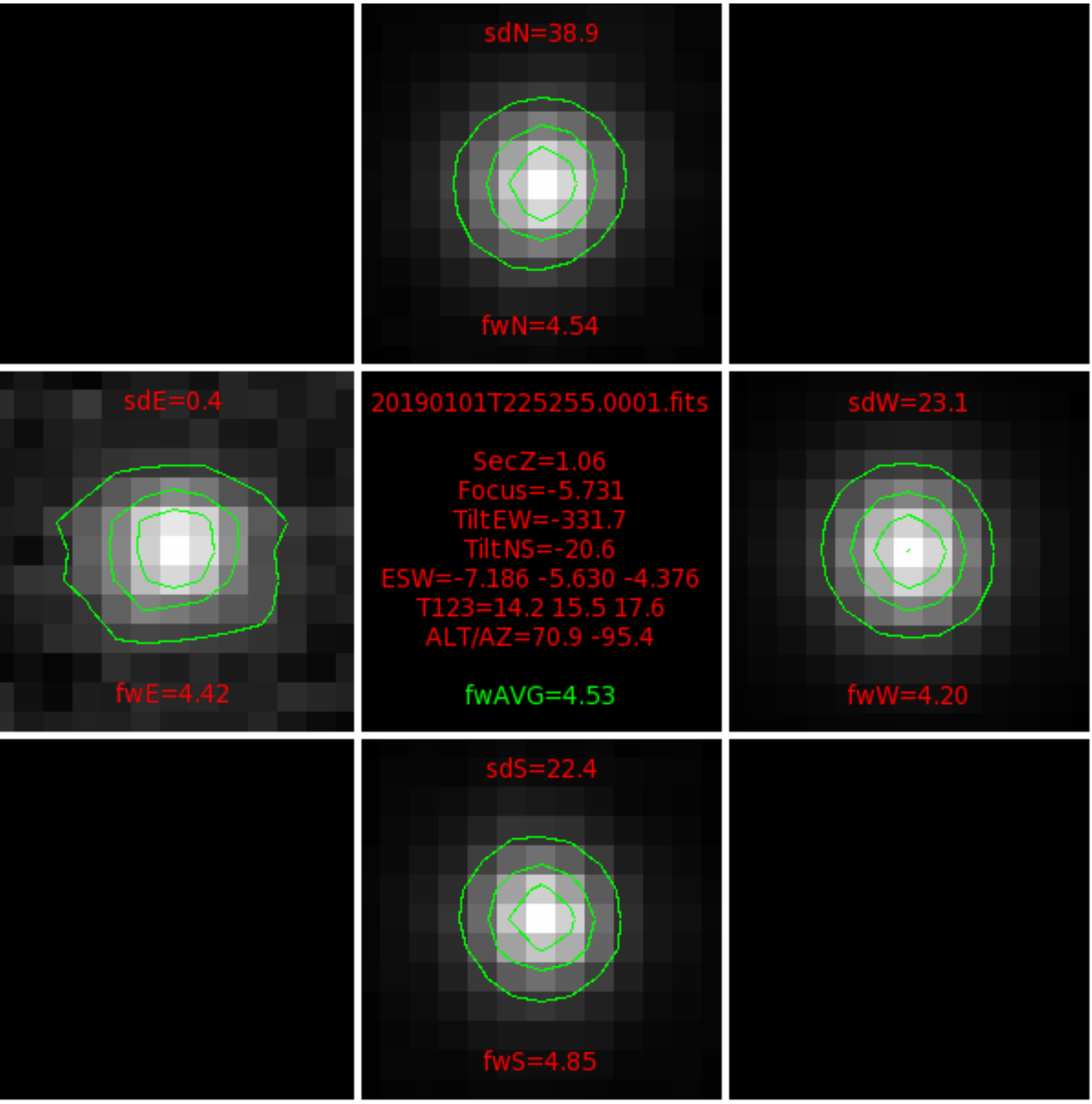
sdN=38.9
fwN=4.54
sdE=0.4
fwE=4.42
20190101T225255.0001.fits
SecZ=1.06
Focus=-5.731
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.186 -5.630 -4.376
T123=14.2 15.5 17.6
ALT/AZ=70.9 -95.4
fwAVG=4.53
sdW=23.1
fwW=4.20
sdS=22.4
fwS=4.85
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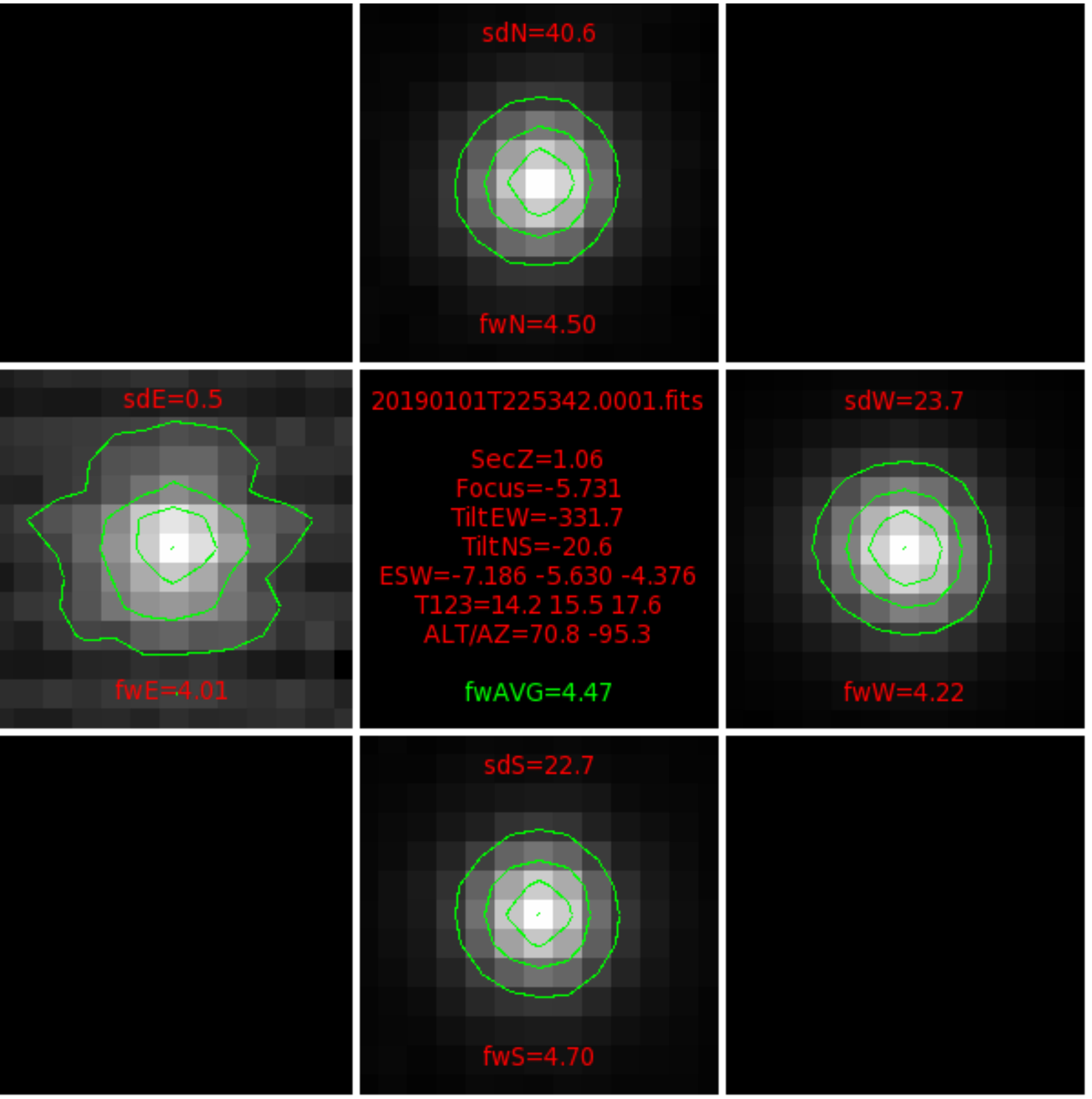
sdN=40.6
fwN=4.50
sdE=0.5
fwE=4.01
20190101T225342.0001.fits
SecZ=1.06
Focus=-5.731
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.186 -5.630 -4.376
T123=14.2 15.5 17.6
ALT/AZ=70.8 -95.3
fwAVG=4.47
sdW=23.7
fwW=4.22
sdS=22.7
fwS=4.70
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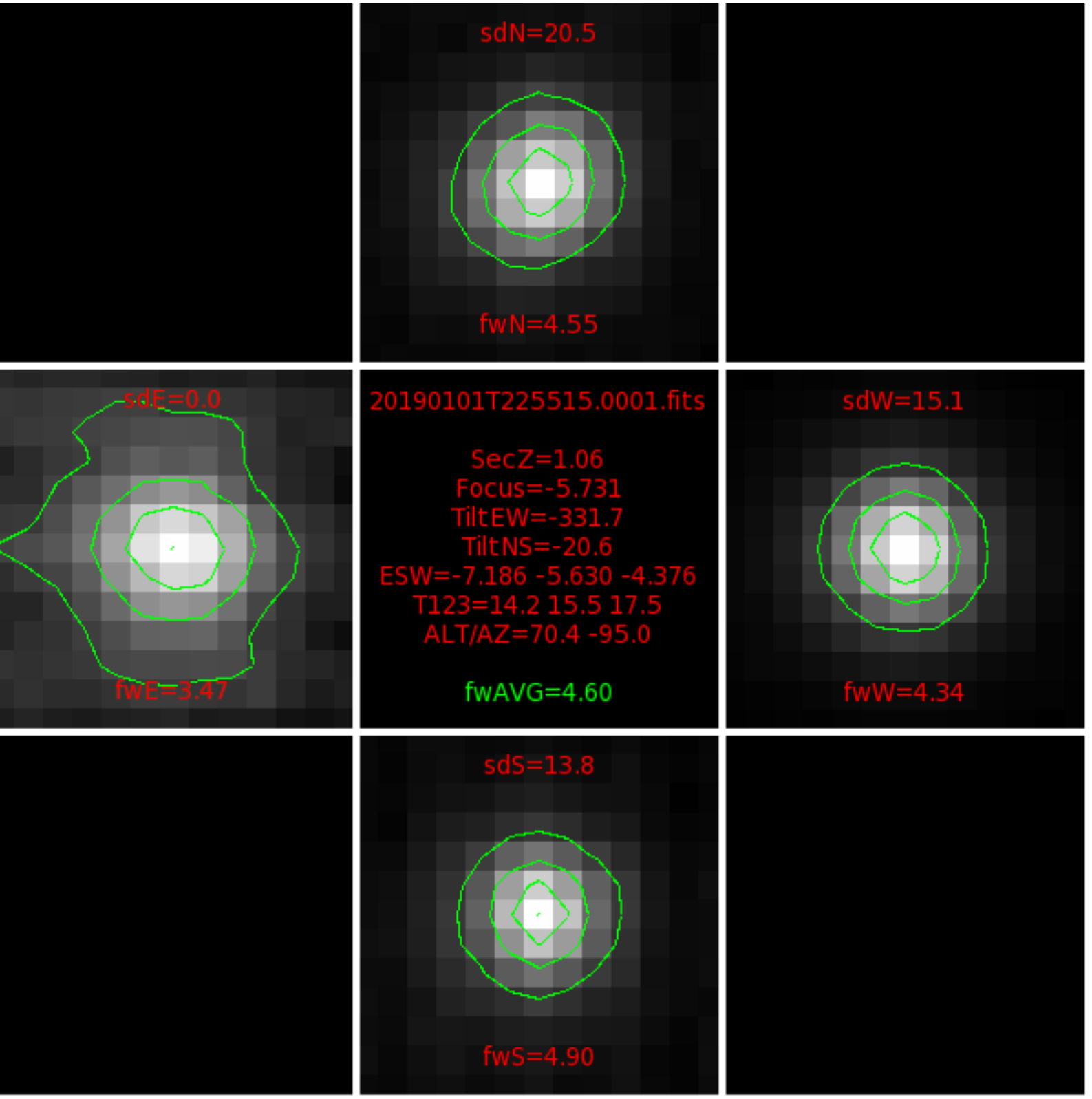
sdN=20.5
fwN=4.55
sdE=0.0
fwE=3.47
20190101T225515.0001.fits
SecZ=1.06
Focus=-5.731
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.186 -5.630 -4.376
T123=14.2 15.5 17.5
ALT/AZ=70.4 -95.0
fwAVG=4.60
sdW=15.1
fwW=4.34
sdS=13.8
fwS=4.90
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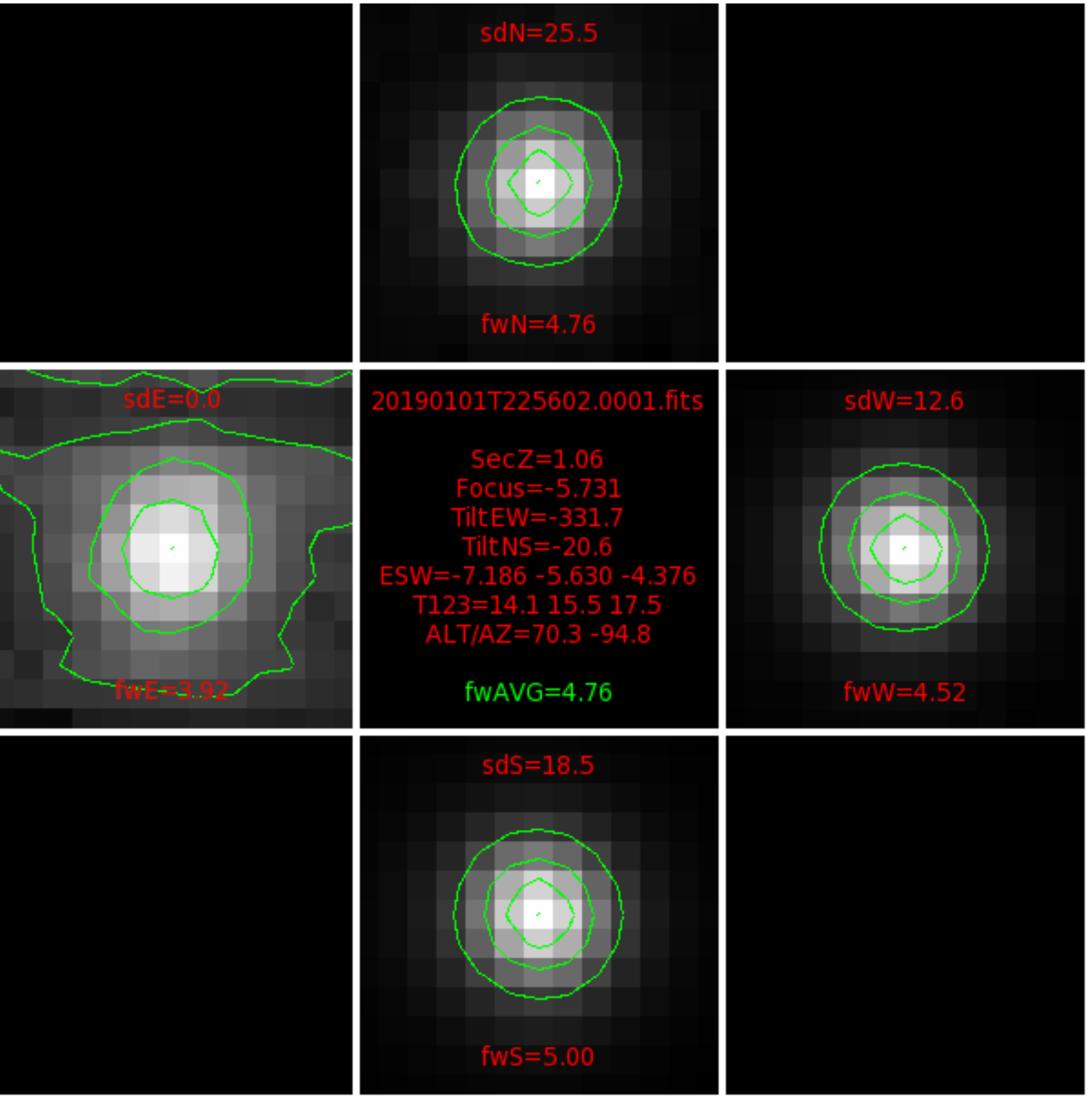
sdN=25.5
fwN=4.76
sdE=0.0
fwE=3.92
20190101T225602.0001.fits
SecZ=1.06
Focus=-5.731
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.186 -5.630 -4.376
T123=14.1 15.5 17.5
ALT/AZ=70.3 -94.8
fwAVG=4.76
sdW=12.6
fwW=4.52
sdS=18.5
fwS=5.00
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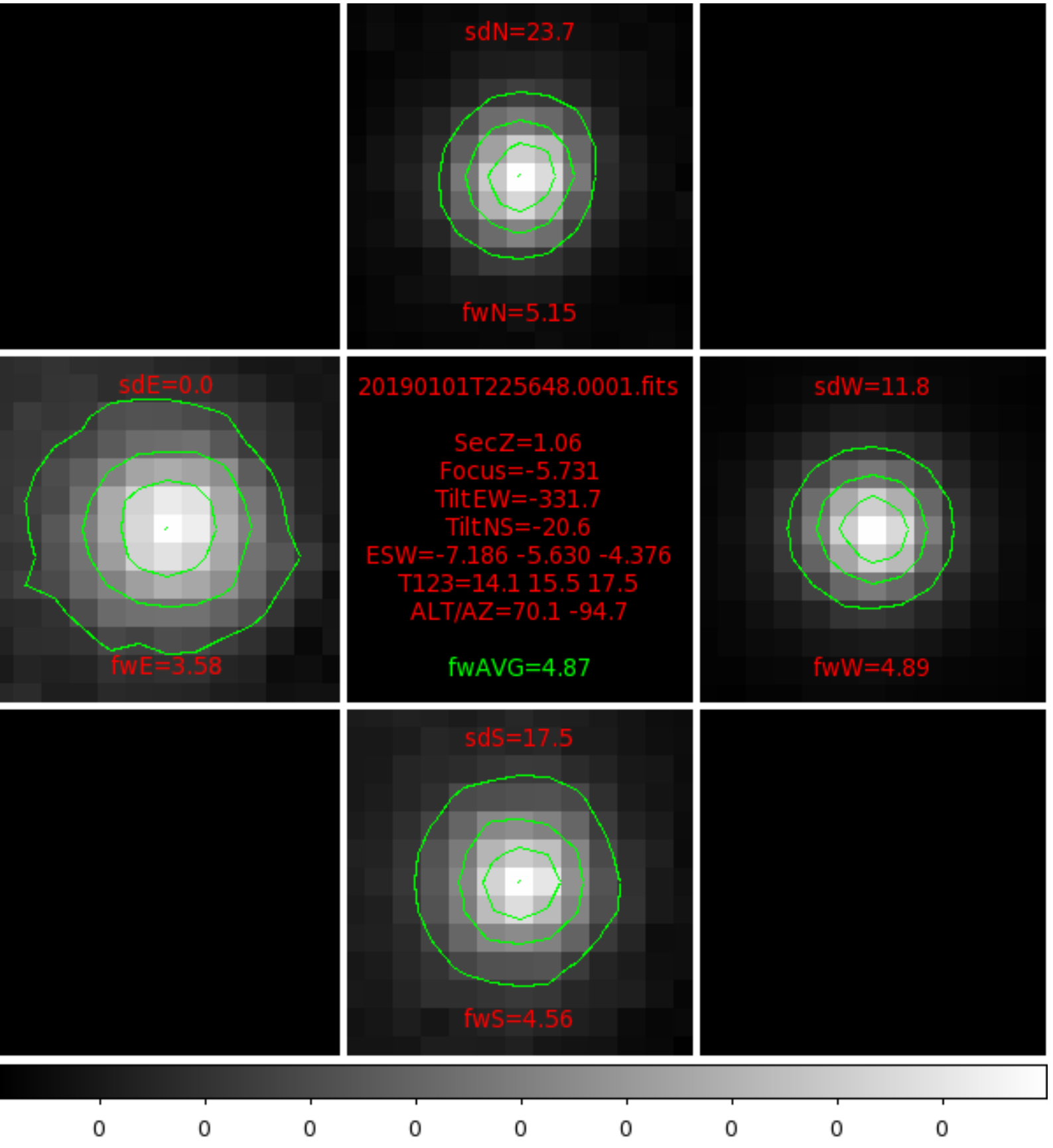
sdN=23.7
fwN=5.15
sdE=0.0
fwE=3.58
20190101T225648.0001.fits
SecZ=1.06
Focus=-5.731
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.186 -5.630 -4.376
T123=14.1 15.5 17.5
ALT/AZ=70.1 -94.7
fwAVG=4.87
sdW=11.8
fwW=4.89
sdS=17.5
fwS=4.56
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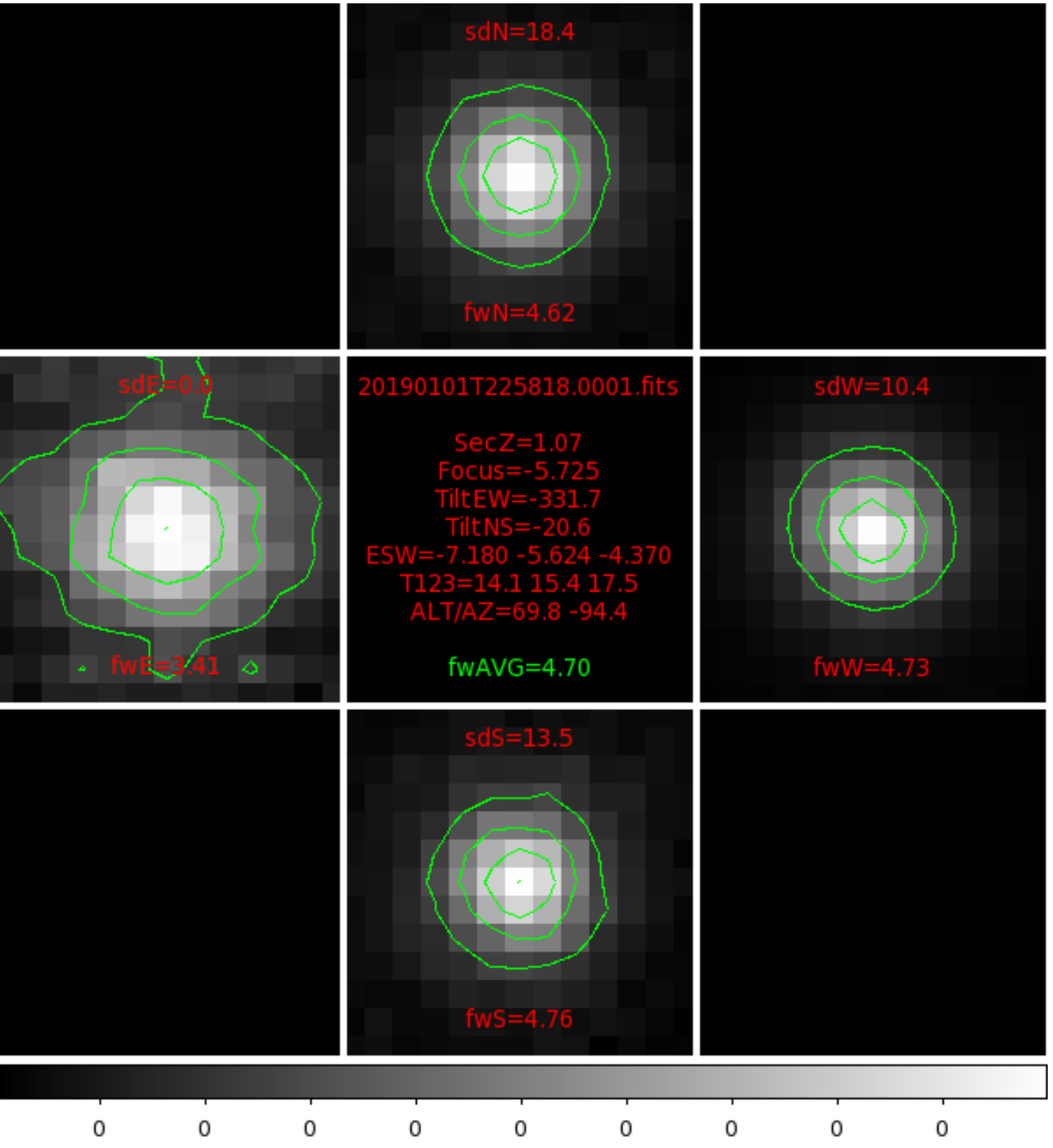
sdN=18.4
fwN=4.62
sdE=0.0
fwE=3.41
20190101T225818.0001.fits
SecZ=1.07
Focus=-5.725
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.180 -5.624 -4.370
T123=14.1 15.4 17.5
ALT/AZ=69.8 -94.4
fwAVG=4.70
sdW=10.4
fwW=4.73
sdS=13.5
fwS=4.76
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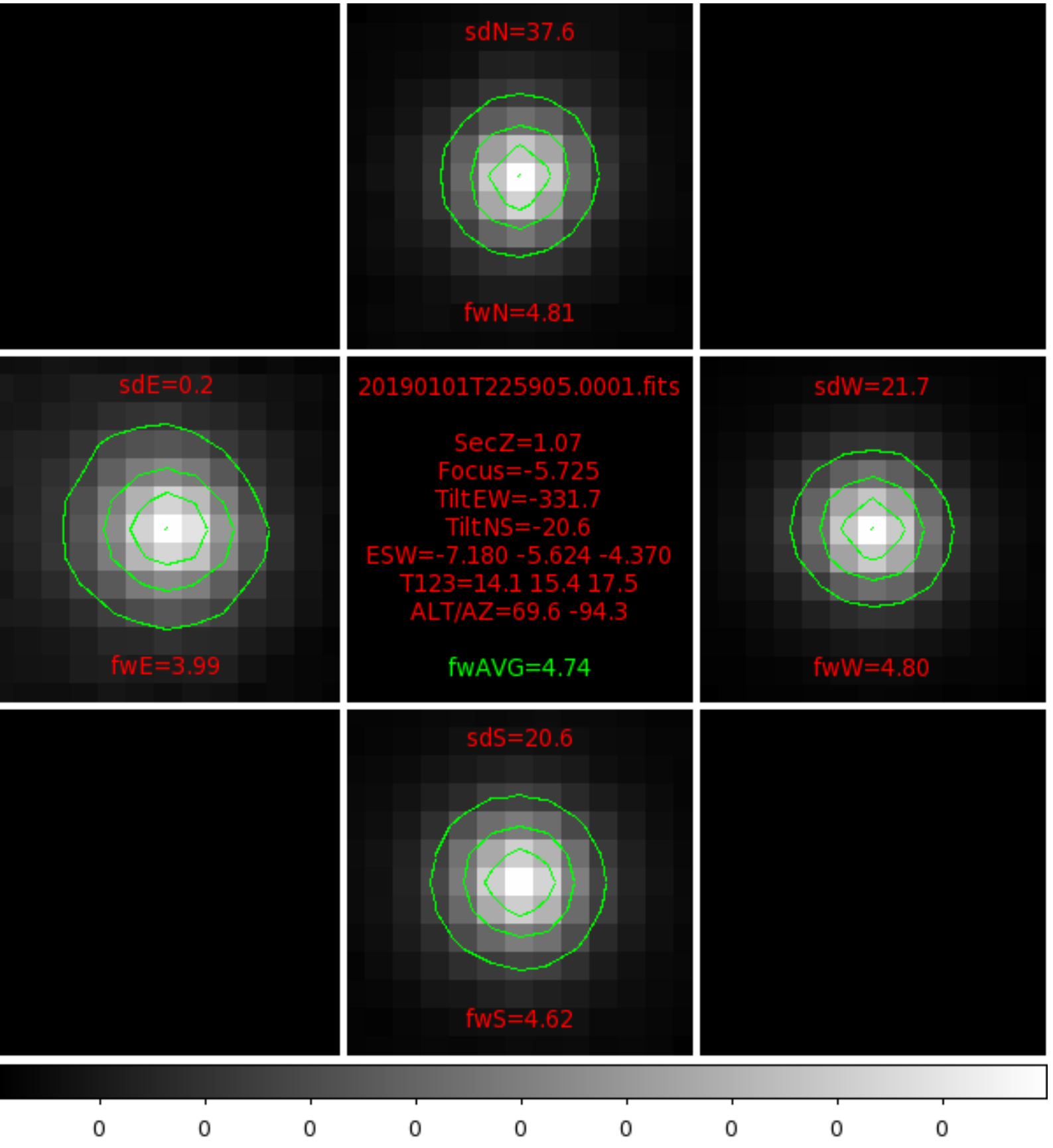
sdN=37.6
fwN=4.81
sdE=0.2
fwE=3.99
20190101T225905.0001.fits
SecZ=1.07
Focus=-5.725
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.180 -5.624 -4.370
T123=14.1 15.4 17.5
ALT/AZ=69.6 -94.3
fwAVG=4.74
sdW=21.7
fwW=4.80
sdS=20.6
fwS=4.62
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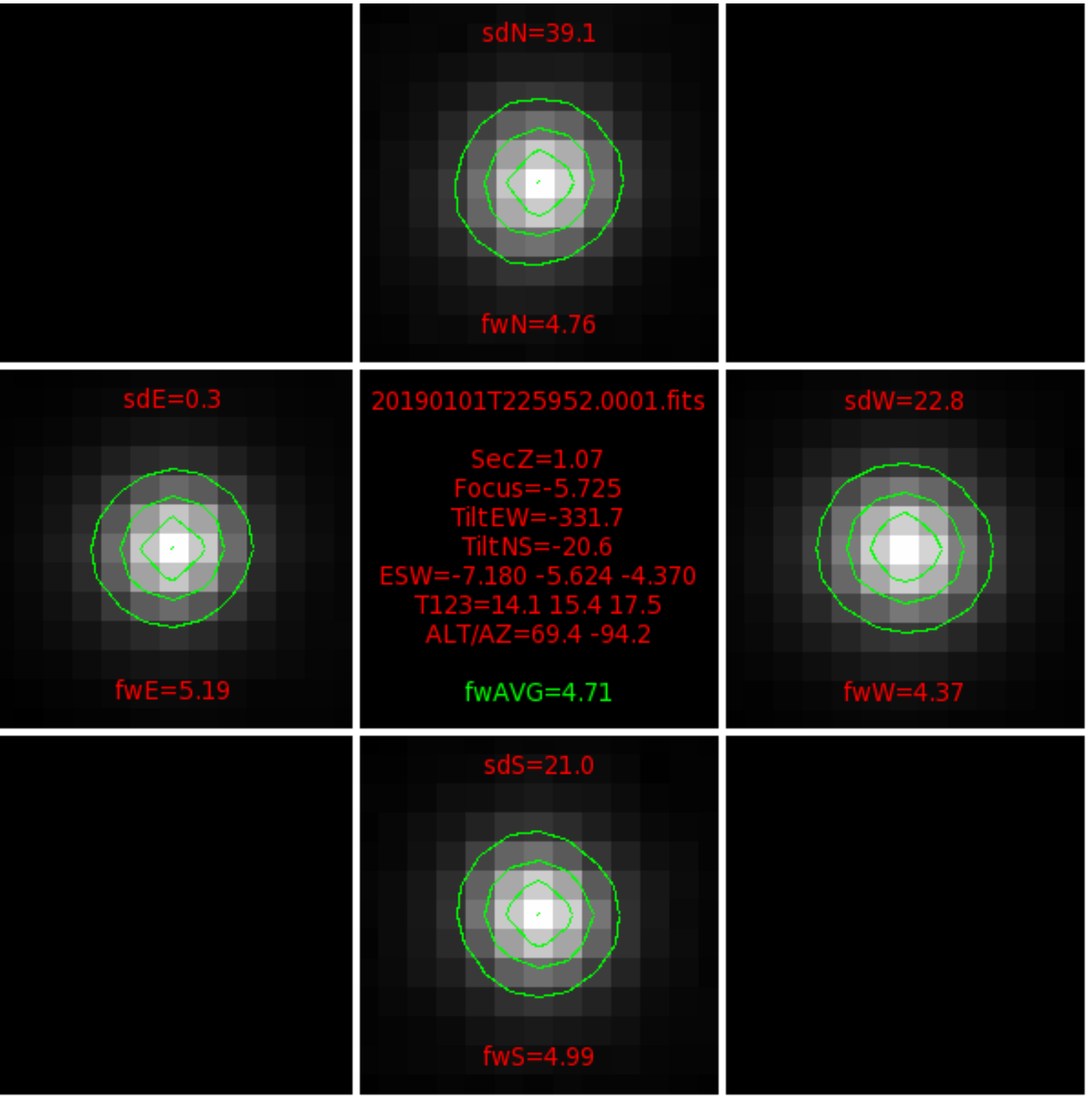
sdN=39.1
fwN=4.76
sdE=0.3
fwE=5.19
20190101T225952.0001.fits
SecZ=1.07
Focus=-5.725
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.180 -5.624 -4.370
T123=14.1 15.4 17.5
ALT/AZ=69.4 -94.2
fwAVG=4.71
sdW=22.8
fwW=4.37
sdS=21.0
fwS=4.99
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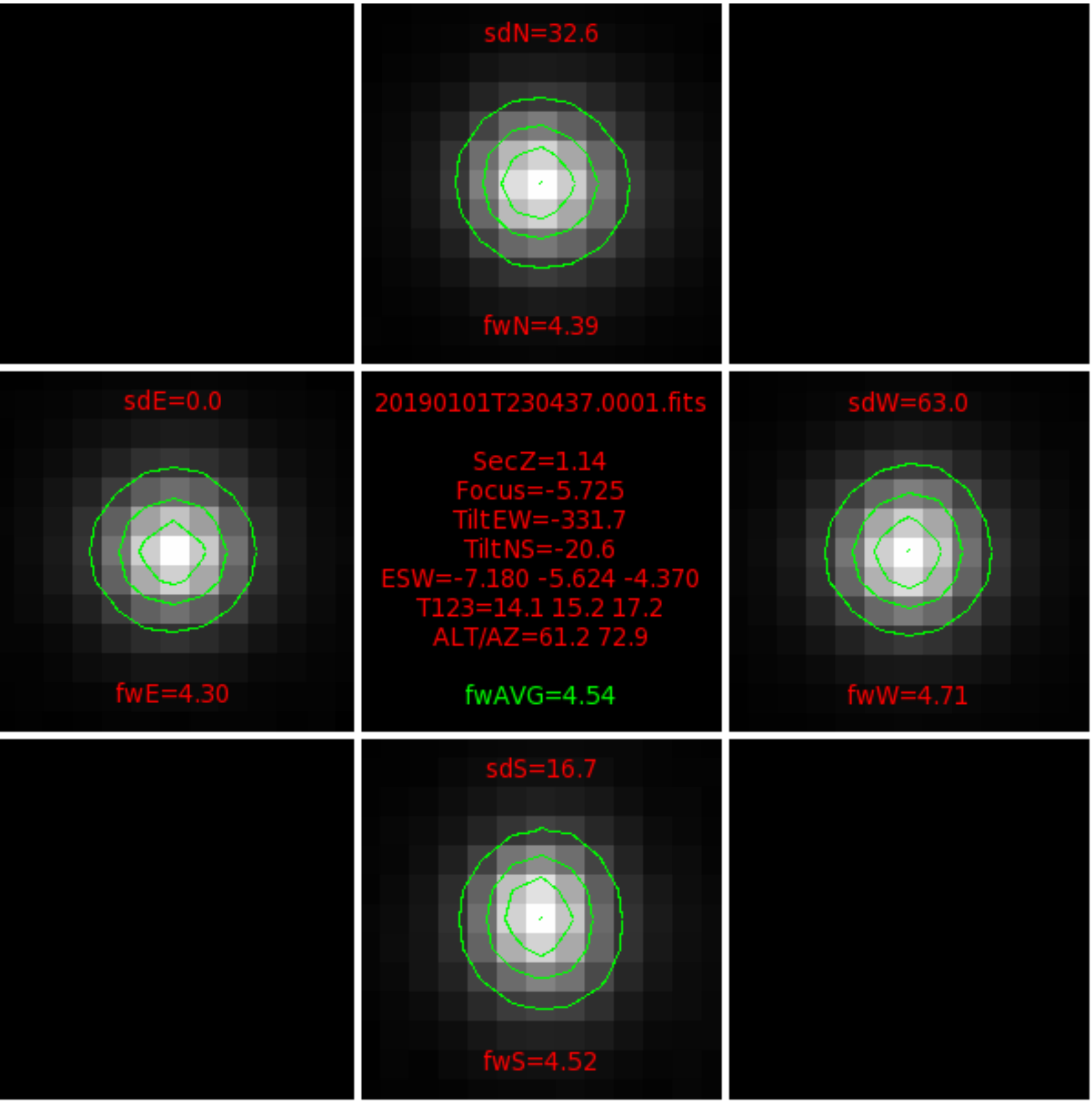
sdN=32.6
fwN=4.39
sdE=0.0
fwE=4.30
20190101T230437.0001.fits
SecZ=1.14
Focus=-5.725
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.180 -5.624 -4.370
T123=14.1 15.2 17.2
ALT/AZ=61.2 72.9
fwAVG=4.54
sdW=63.0
fwW=4.71
sdS=16.7
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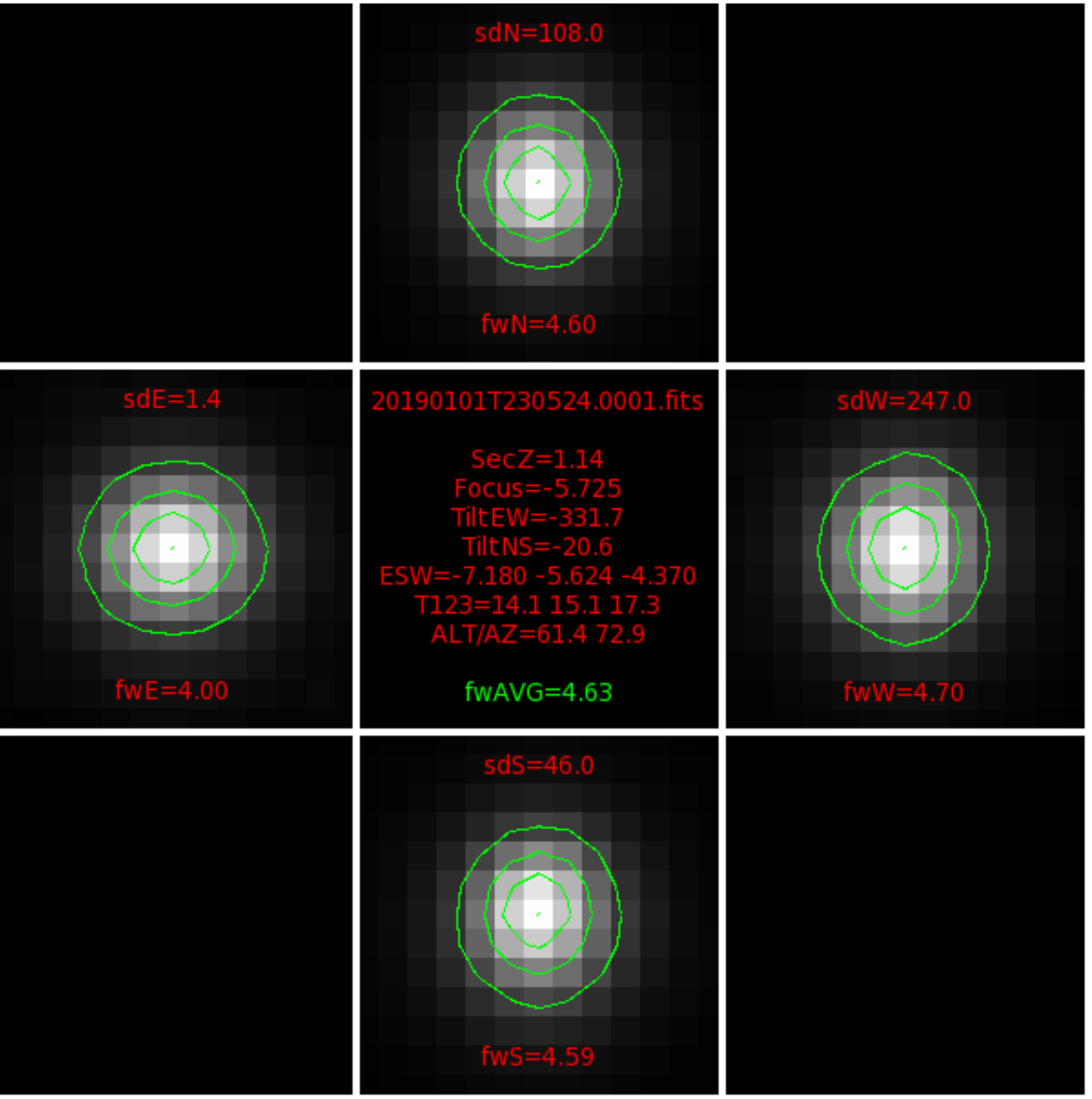
sdN=108.0
fwN=4.60
sdE=1.4
fwE=4.00
20190101T230524.0001.fits
SecZ=1.14
Focus=-5.725
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.180 -5.624 -4.370
T123=14.1 15.1 17.3
ALT/AZ=61.4 72.9
fwAVG=4.63
sdW=247.0
fwW=4.70
sdS=46.0
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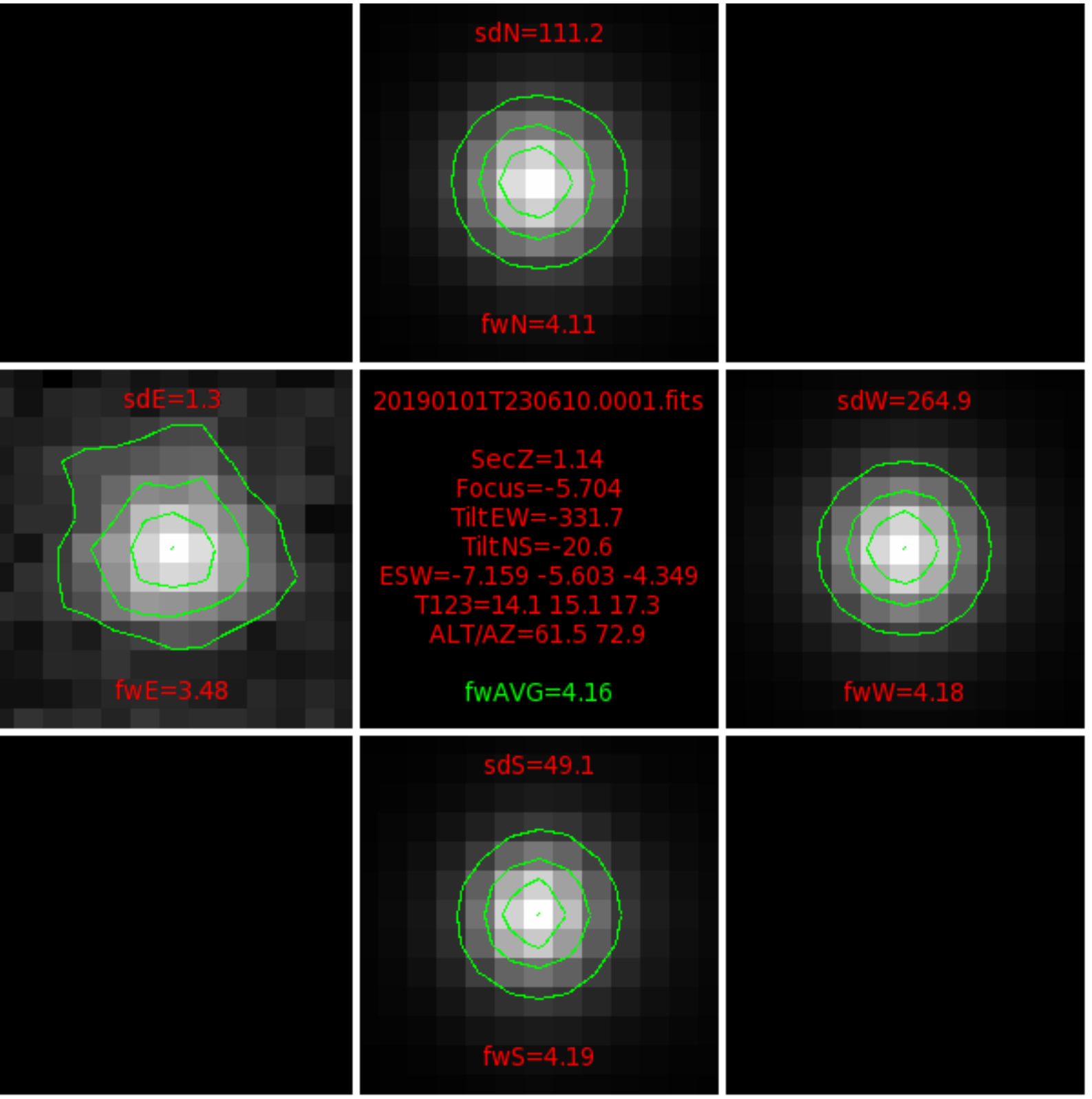
sdN=111.2
fwN=4.11
sdE=1.3
fwE=3.48
20190101T230610.0001.fits
SecZ=1.14
Focus=-5.704
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.159 -5.603 -4.349
T123=14.1 15.1 17.3
ALT/AZ=61.5 72.9
fwAVG=4.16
sdW=264.9
fwW=4.18
sdS=49.1
fwS=4.19
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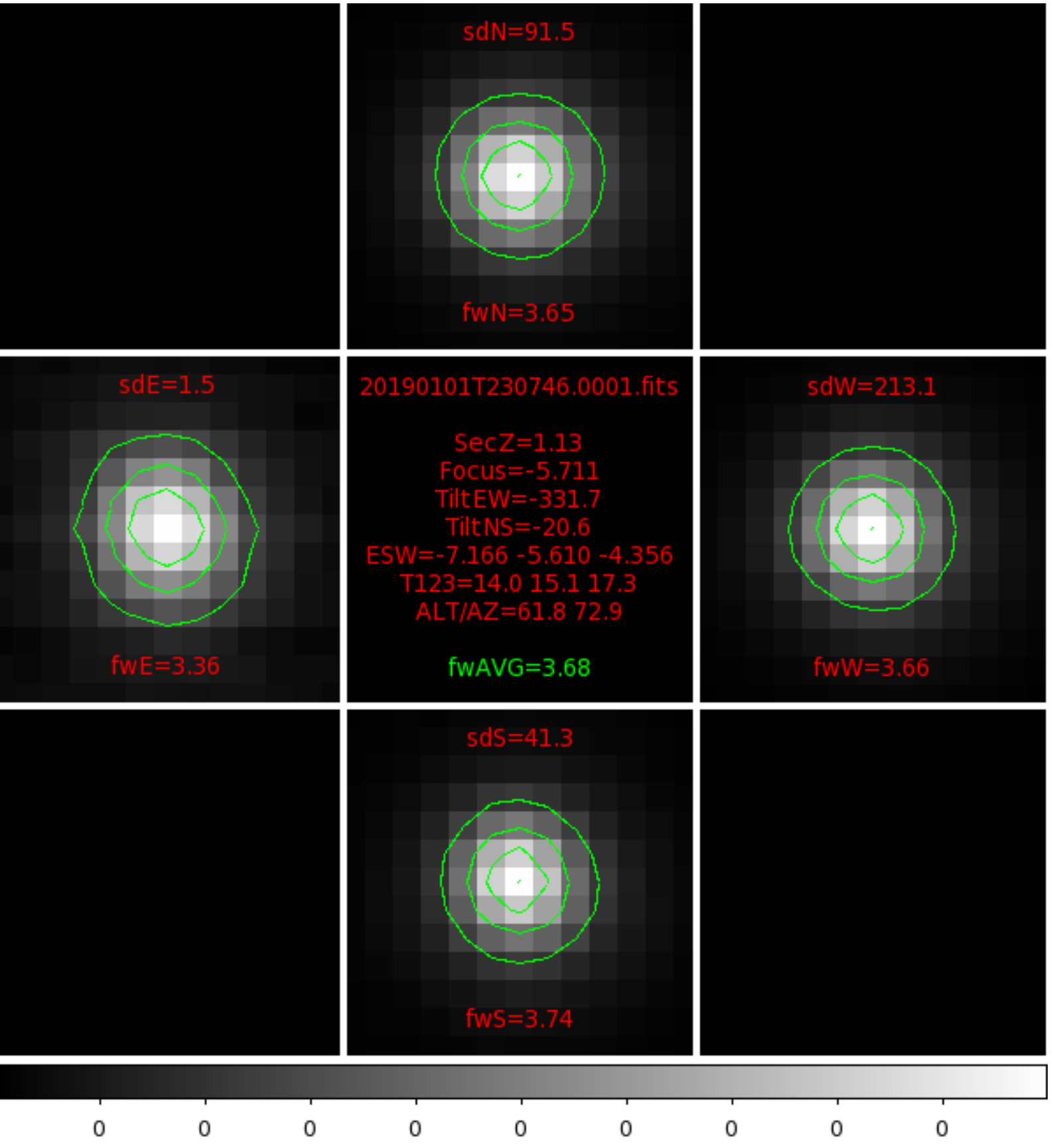
sdN=91.5
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sdE=1.5
fwE=3.36
20190101T230746.0001.fits
SecZ=1.13
Focus=-5.711
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.166 -5.610 -4.356
T123=14.0 15.1 17.3
ALT/AZ=61.8 72.9
fwAVG=3.68
sdW=213.1
fwW=3.66
sdS=41.3
fwS=3.74
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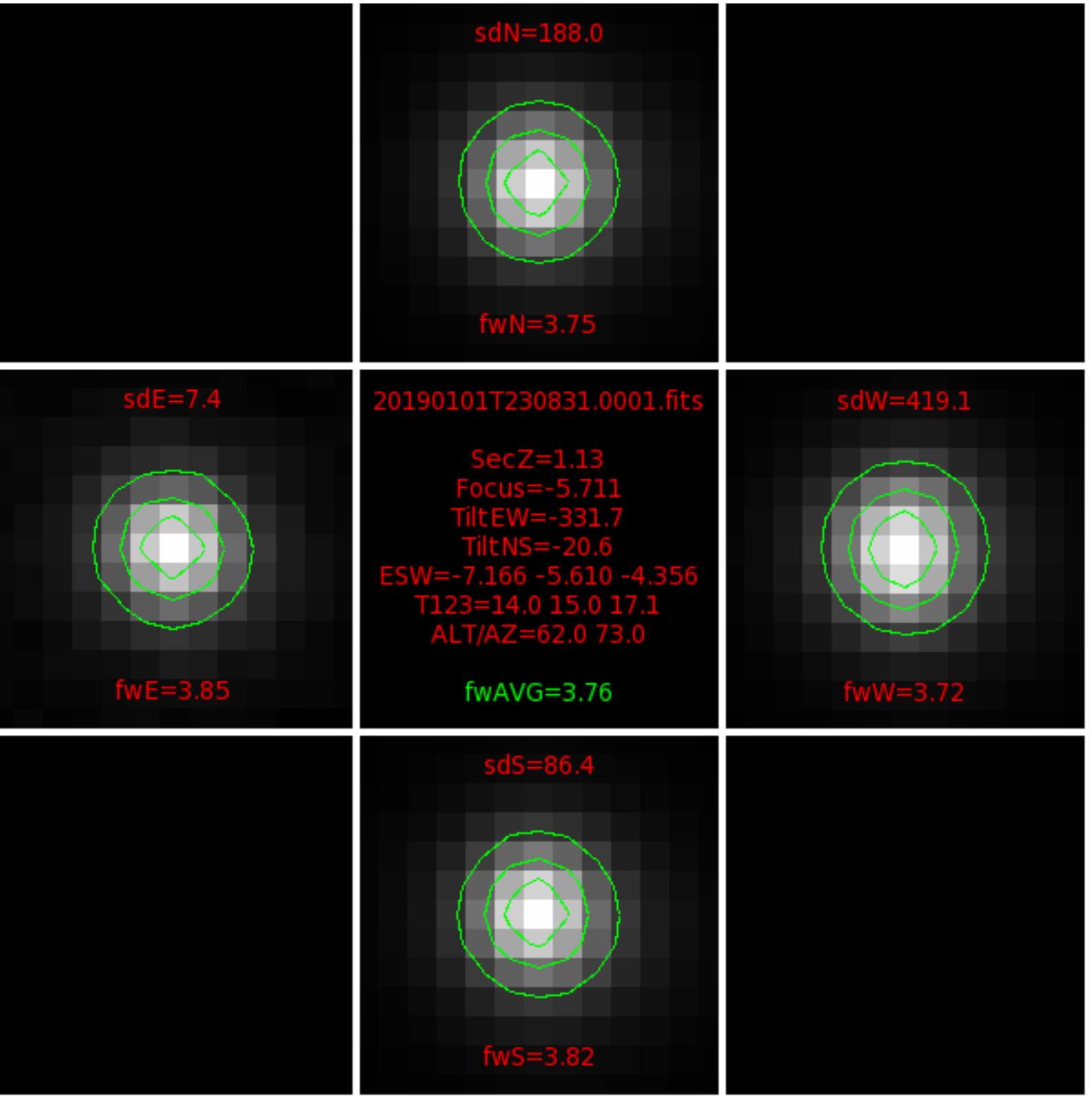
sdN=188.0
fwN=3.75
sdE=7.4
fwE=3.85
20190101T230831.0001.fits
SecZ=1.13
Focus=-5.711
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.166 -5.610 -4.356
T123=14.0 15.0 17.1
ALT/AZ=62.0 73.0
fwAVG=3.76
sdW=419.1
fwW=3.72
sdS=86.4
fwS=3.82
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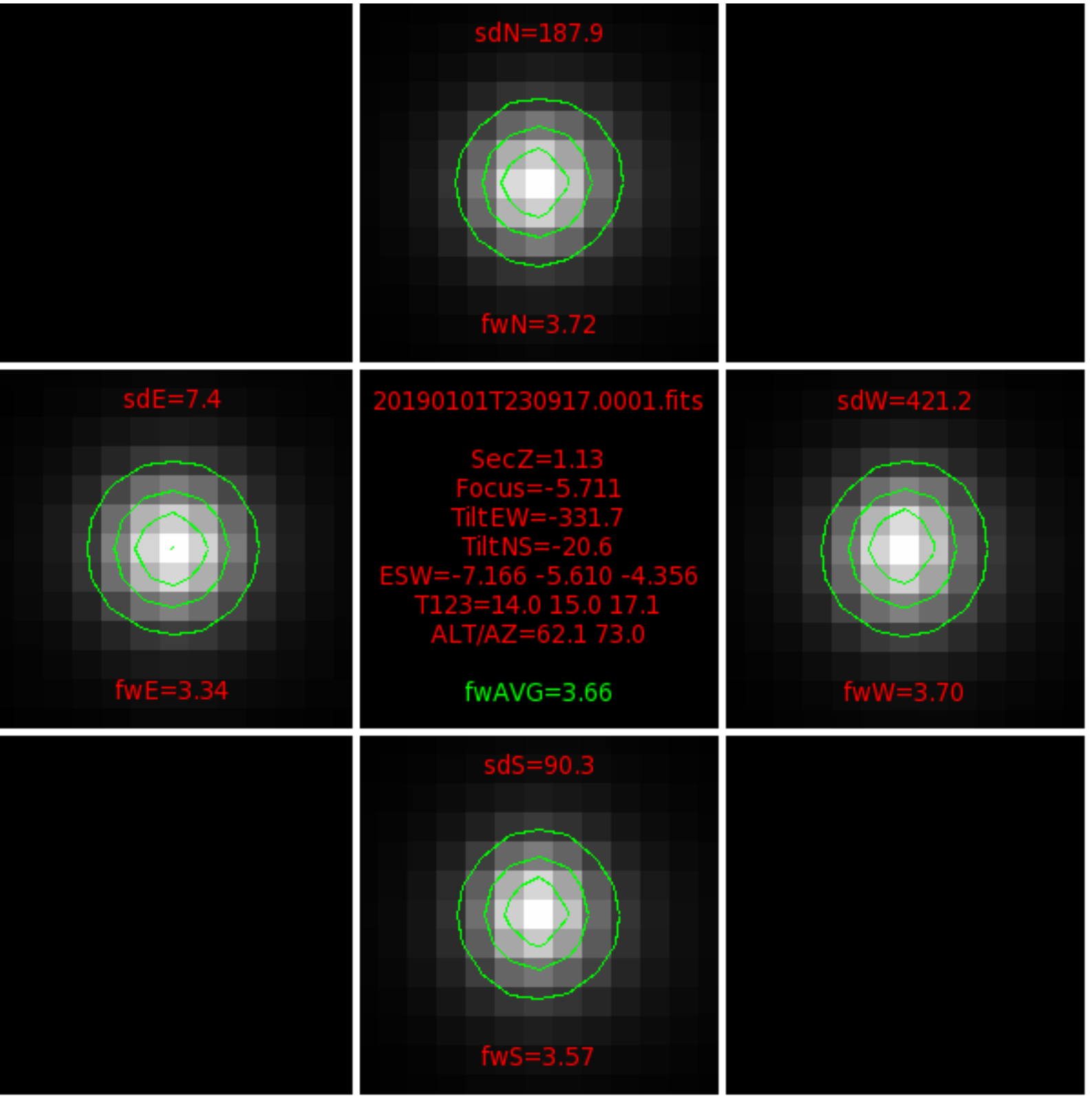
sdN=187.9
fwN=3.72
sdE=7.4
fwE=3.34
20190101T230917.0001.fits
SecZ=1.13
Focus=-5.711
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.166 -5.610 -4.356
T123=14.0 15.0 17.1
ALT/AZ=62.1 73.0
fwAVG=3.66
sdW=421.2
fwW=3.70
sdS=90.3
fwS=3.57
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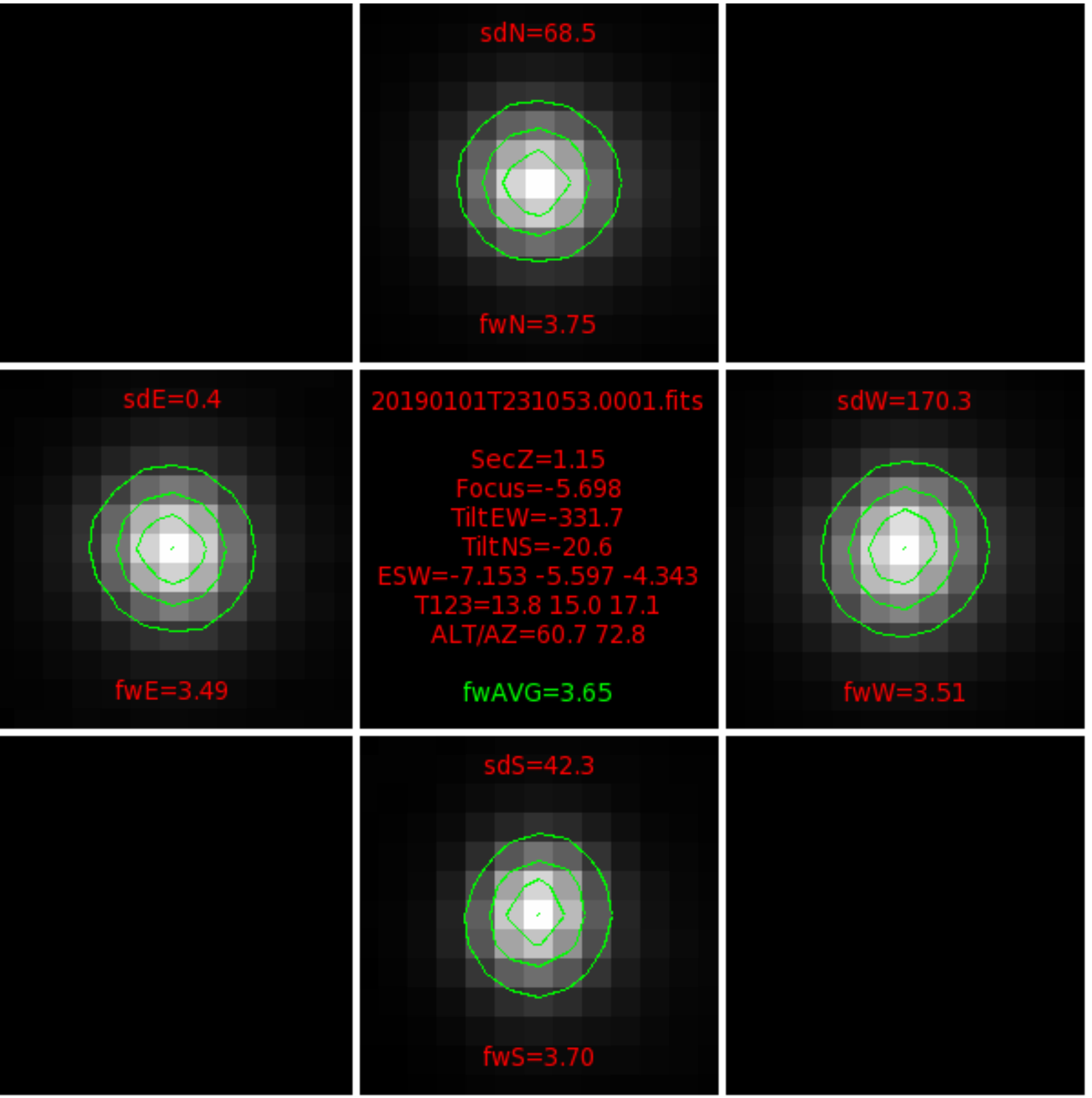
sdN=68.5
fwN=3.75
sdE=0.4
fwE=3.49
20190101T231053.0001.fits
SecZ=1.15
Focus=-5.698
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.153 -5.597 -4.343
T123=13.8 15.0 17.1
ALT/AZ=60.7 72.8
fwAVG=3.65
sdW=170.3
fwW=3.51
sdS=42.3
fwS=3.70
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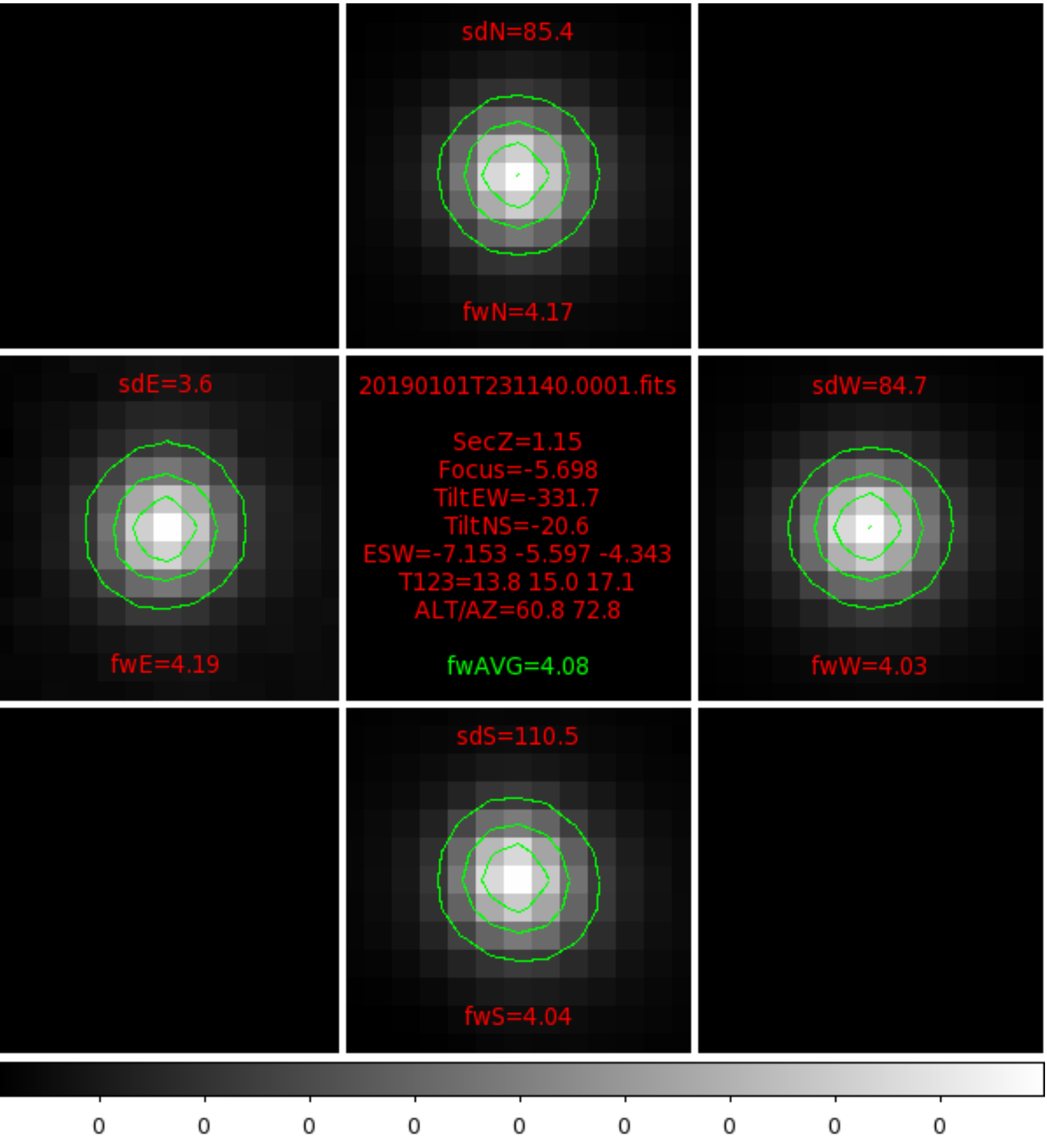
sdN=85.4
fwN=4.17
sdE=3.6
fwE=4.19
20190101T231140.0001.fits
SecZ=1.15
Focus=-5.698
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.153 -5.597 -4.343
T123=13.8 15.0 17.1
ALT/AZ=60.8 72.8
fwAVG=4.08
sdW=84.7
fwW=4.03
sdS=110.5
fwS=4.04
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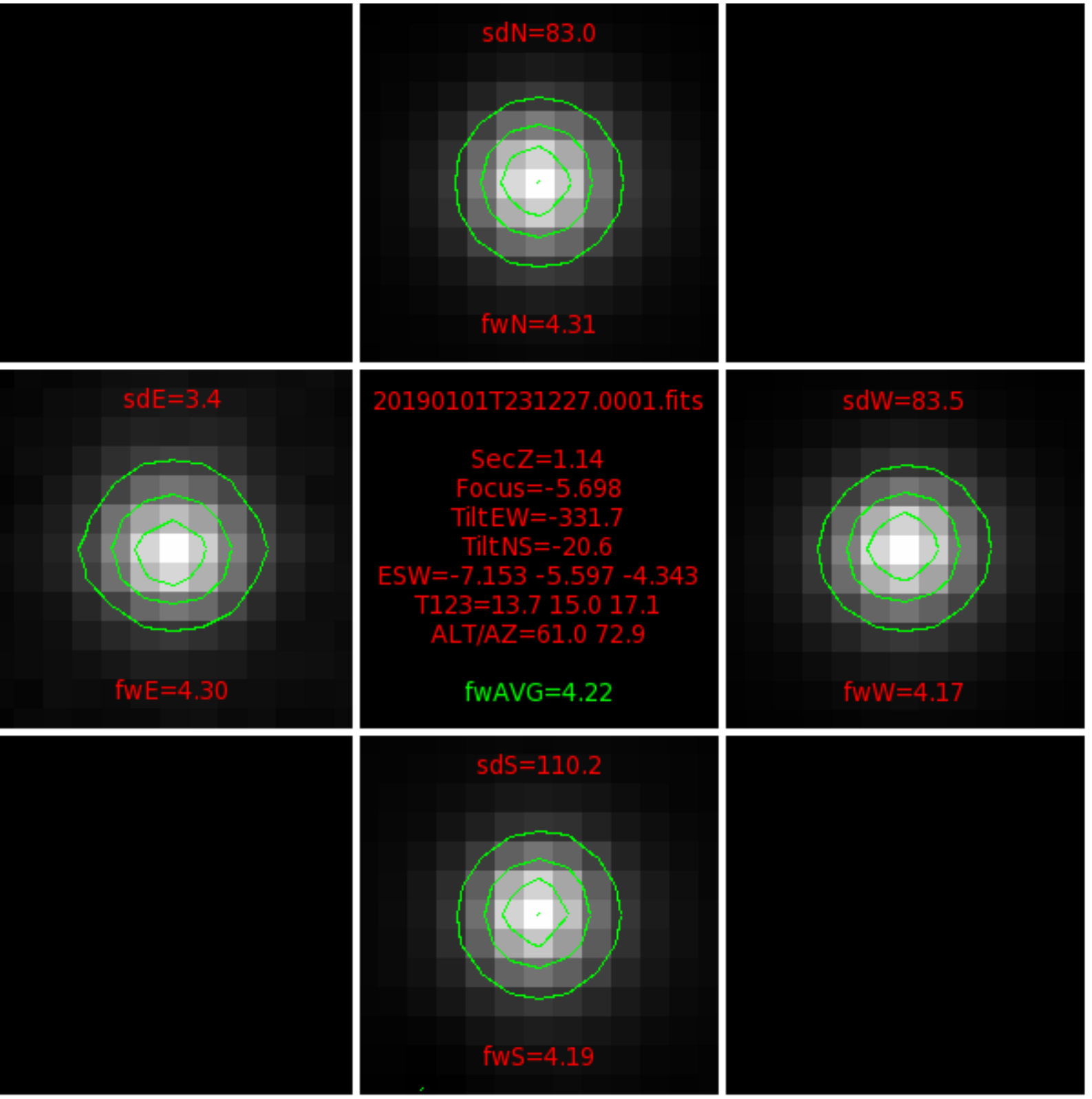
sdN=83.0
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sdE=3.4
fwE=4.30
20190101T231227.0001.fits
SecZ=1.14
Focus=-5.698
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.153 -5.597 -4.343
T123=13.7 15.0 17.1
ALT/AZ=61.0 72.9
fwAVG=4.22
sdW=83.5
fwW=4.17
sdS=110.2
fwS=4.19
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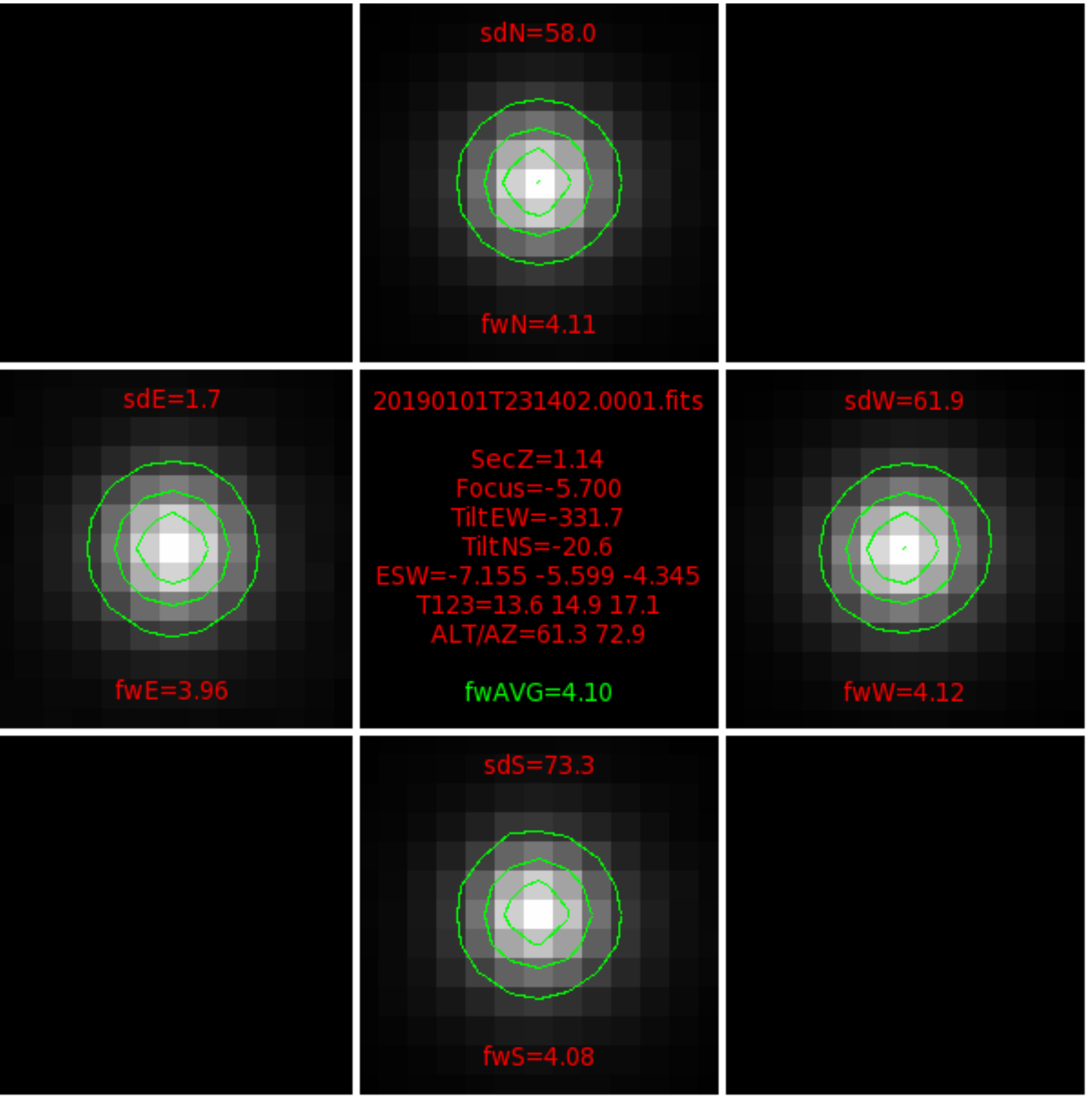
sdN=58.0
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sdE=1.7
fwE=3.96
20190101T231402.0001.fits
SecZ=1.14
Focus=-5.700
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.155 -5.599 -4.345
T123=13.6 14.9 17.1
ALT/AZ=61.3 72.9
fwAVG=4.10
sdW=61.9
fwW=4.12
sdS=73.3
fwS=4.08
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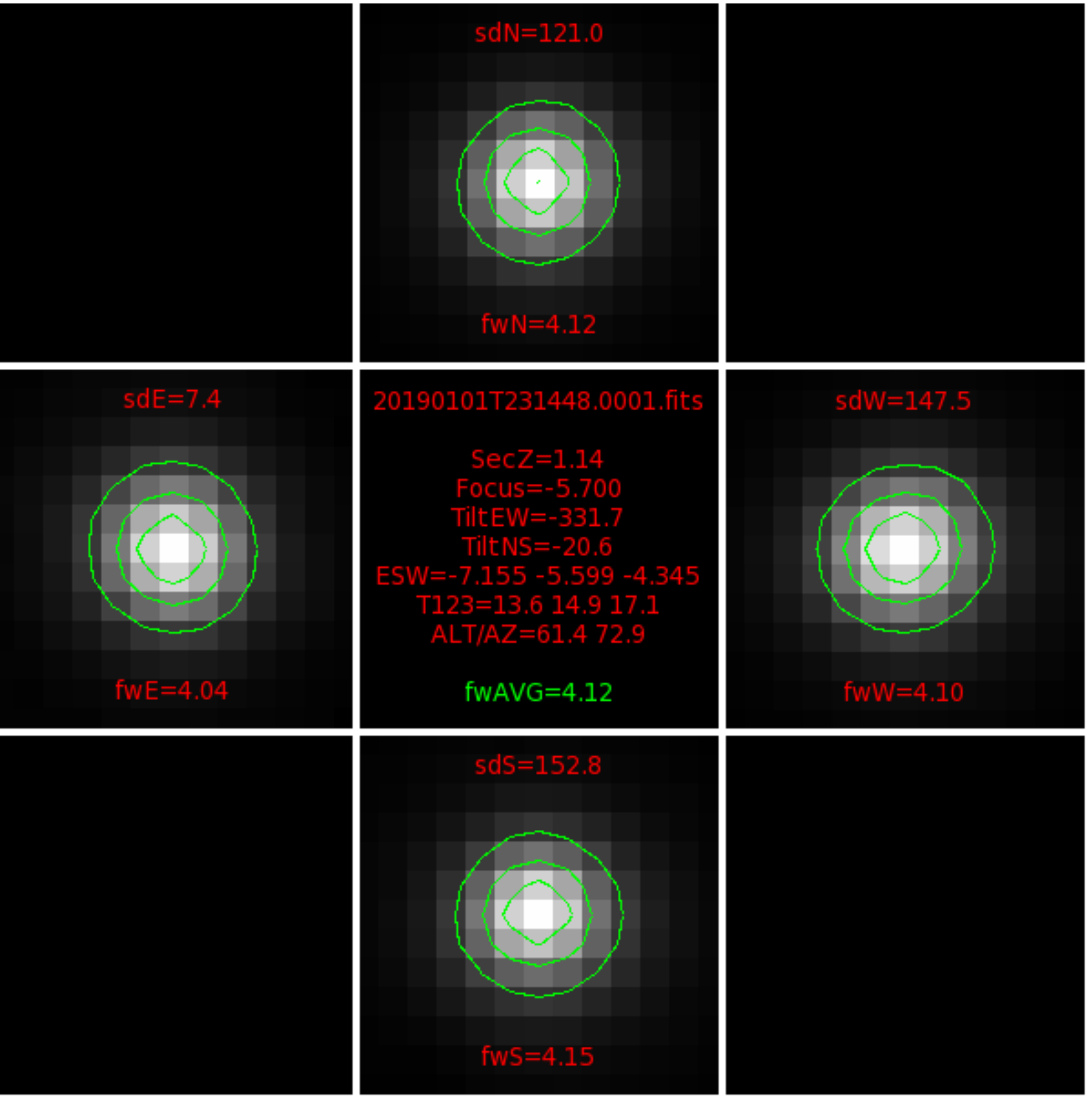
sdN=121.0
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sdE=7.4
fwE=4.04
20190101T231448.0001.fits
SecZ=1.14
Focus=-5.700
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.155 -5.599 -4.345
T123=13.6 14.9 17.1
ALT/AZ=61.4 72.9
fwAVG=4.12
sdW=147.5
fwW=4.10
sdS=152.8
fwS=4.15
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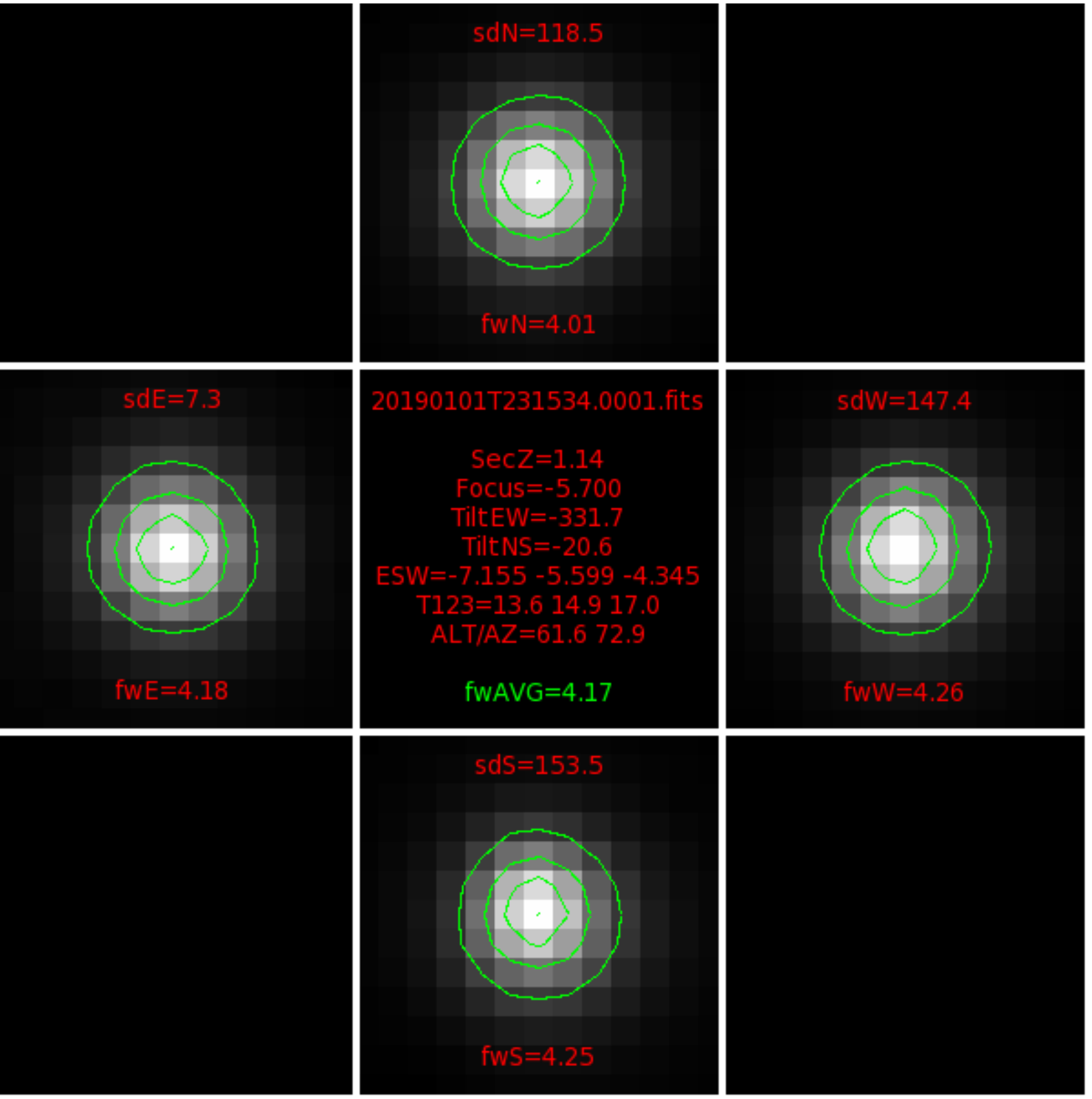
sdN=118.5
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sdE=7.3
fwE=4.18
20190101T231534.0001.fits
SecZ=1.14
Focus=-5.700
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.155 -5.599 -4.345
T123=13.6 14.9 17.0
ALT/AZ=61.6 72.9
fwAVG=4.17
sdW=147.4
fwW=4.26
sdS=153.5
fwS=4.25
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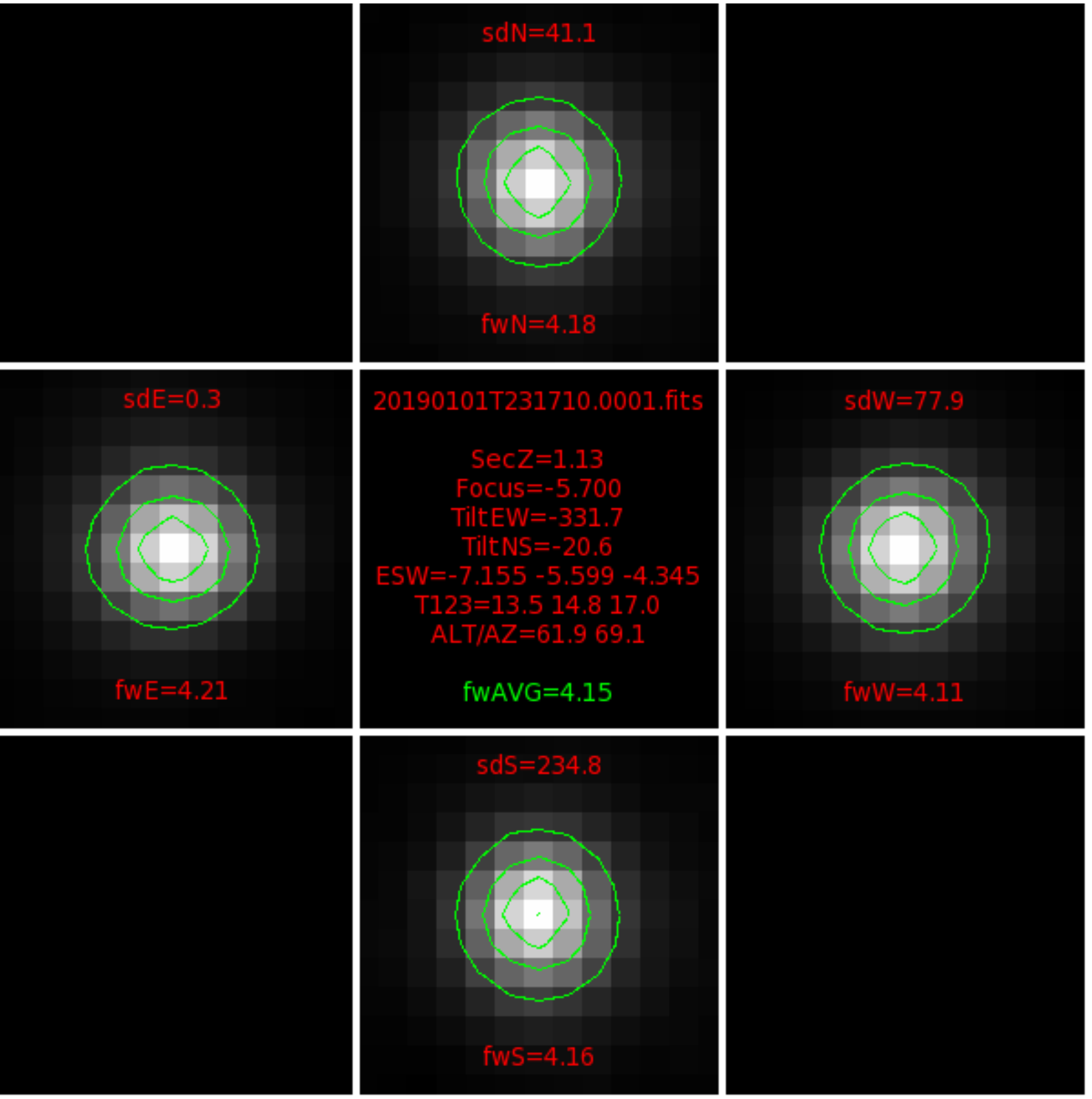
sdN=41.1
fwN=4.18
sdE=0.3
fwE=4.21
20190101T231710.0001.fits
SecZ=1.13
Focus=-5.700
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.155 -5.599 -4.345
T123=13.5 14.8 17.0
ALT/AZ=61.9 69.1
fwAVG=4.15
sdW=77.9
fwW=4.11
sdS=234.8
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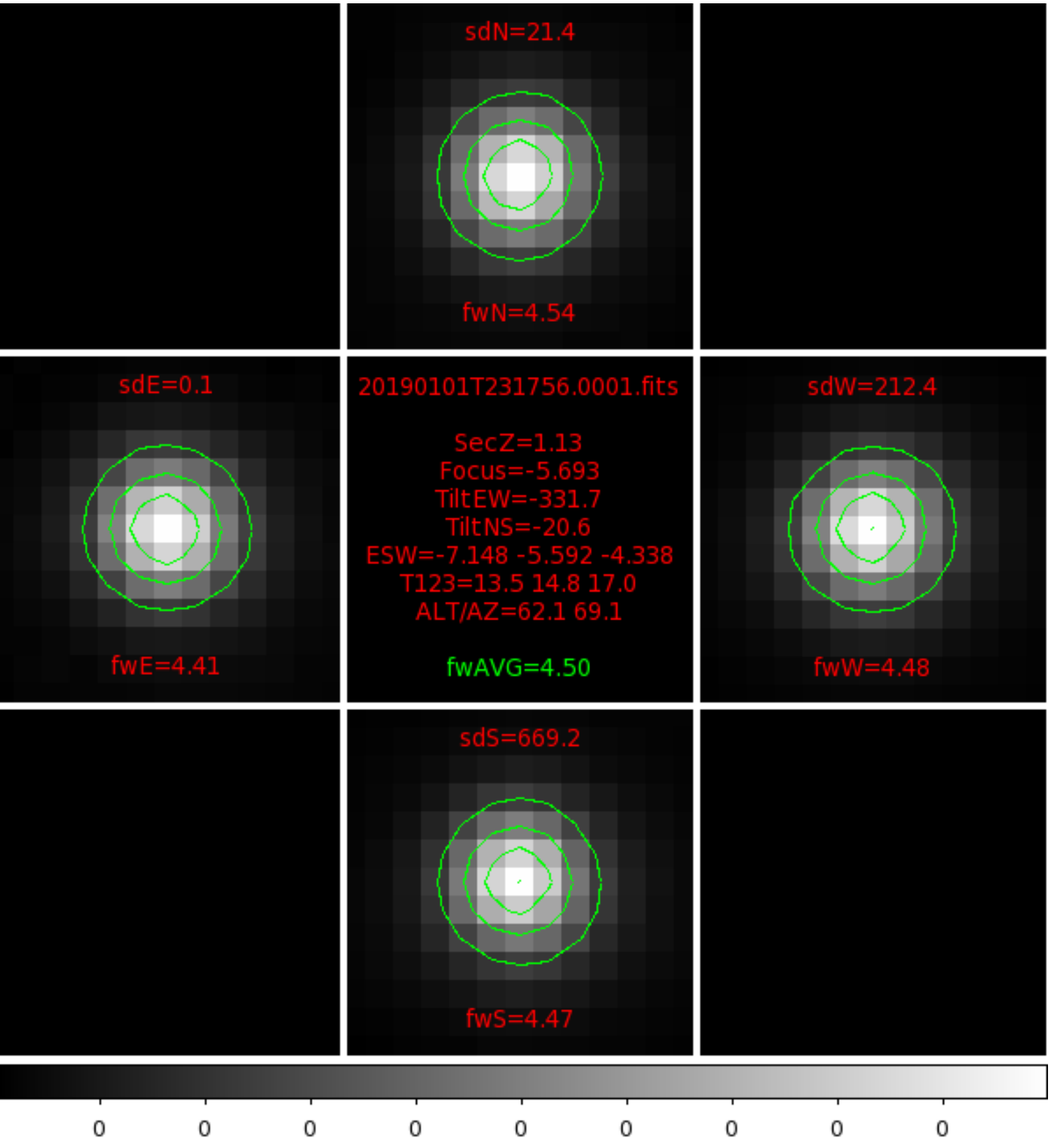
sdN=21.4
fwN=4.54
sdE=0.1
fwE=4.41
20190101T231756.0001.fits
SecZ=1.13
Focus=-5.693
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.148 -5.592 -4.338
T123=13.5 14.8 17.0
ALT/AZ=62.1 69.1
fwAVG=4.50
sdW=212.4
fwW=4.48
sdS=669.2
fwS=4.47
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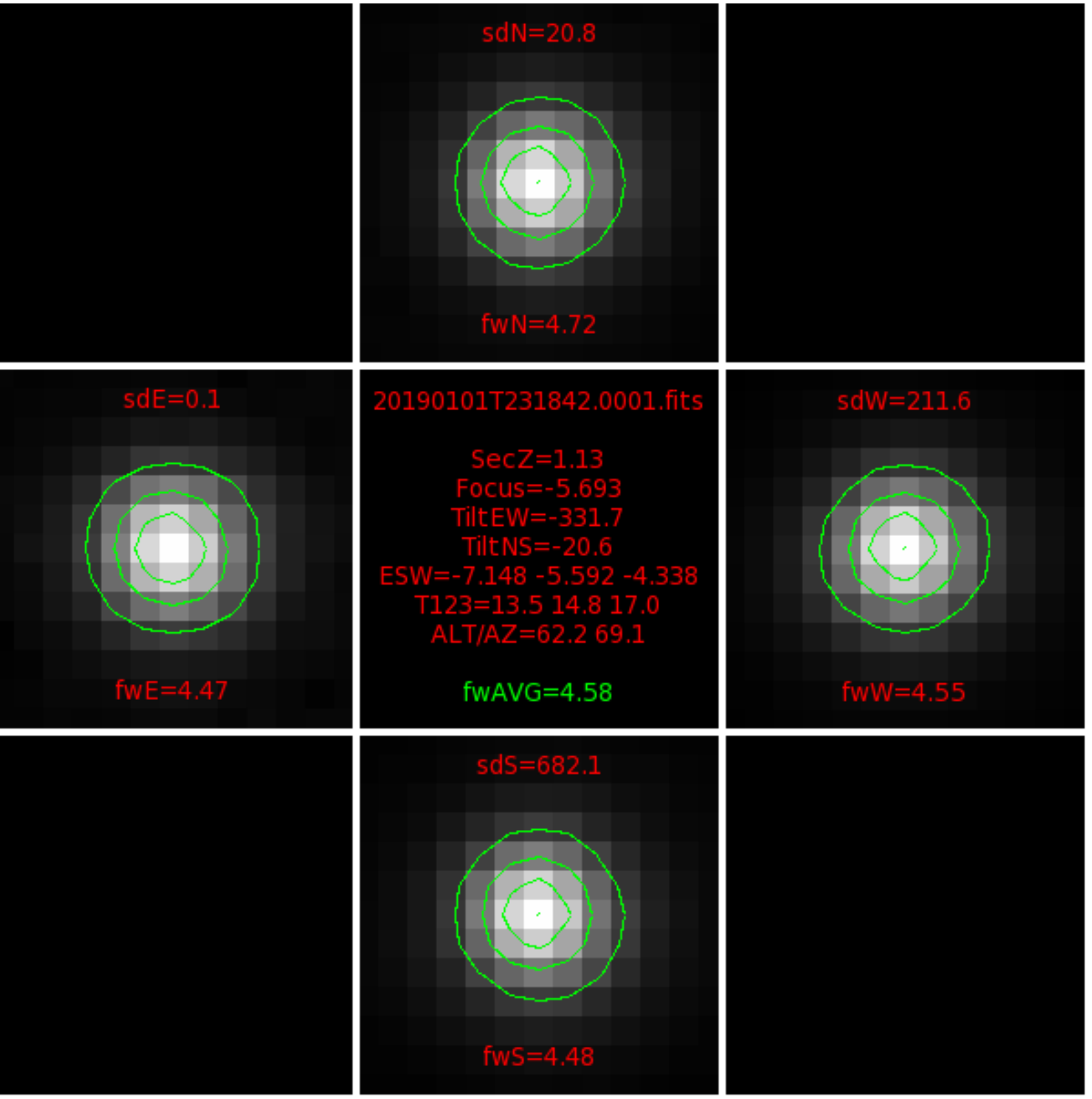
sdN=20.8
fwN=4.72
sdE=0.1
fwE=4.47
20190101T231842.0001.fits
SecZ=1.13
Focus=-5.693
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.148 -5.592 -4.338
T123=13.5 14.8 17.0
ALT/AZ=62.2 69.1
fwAVG=4.58
sdW=211.6
fwW=4.55
sdS=682.1
fwS=4.48
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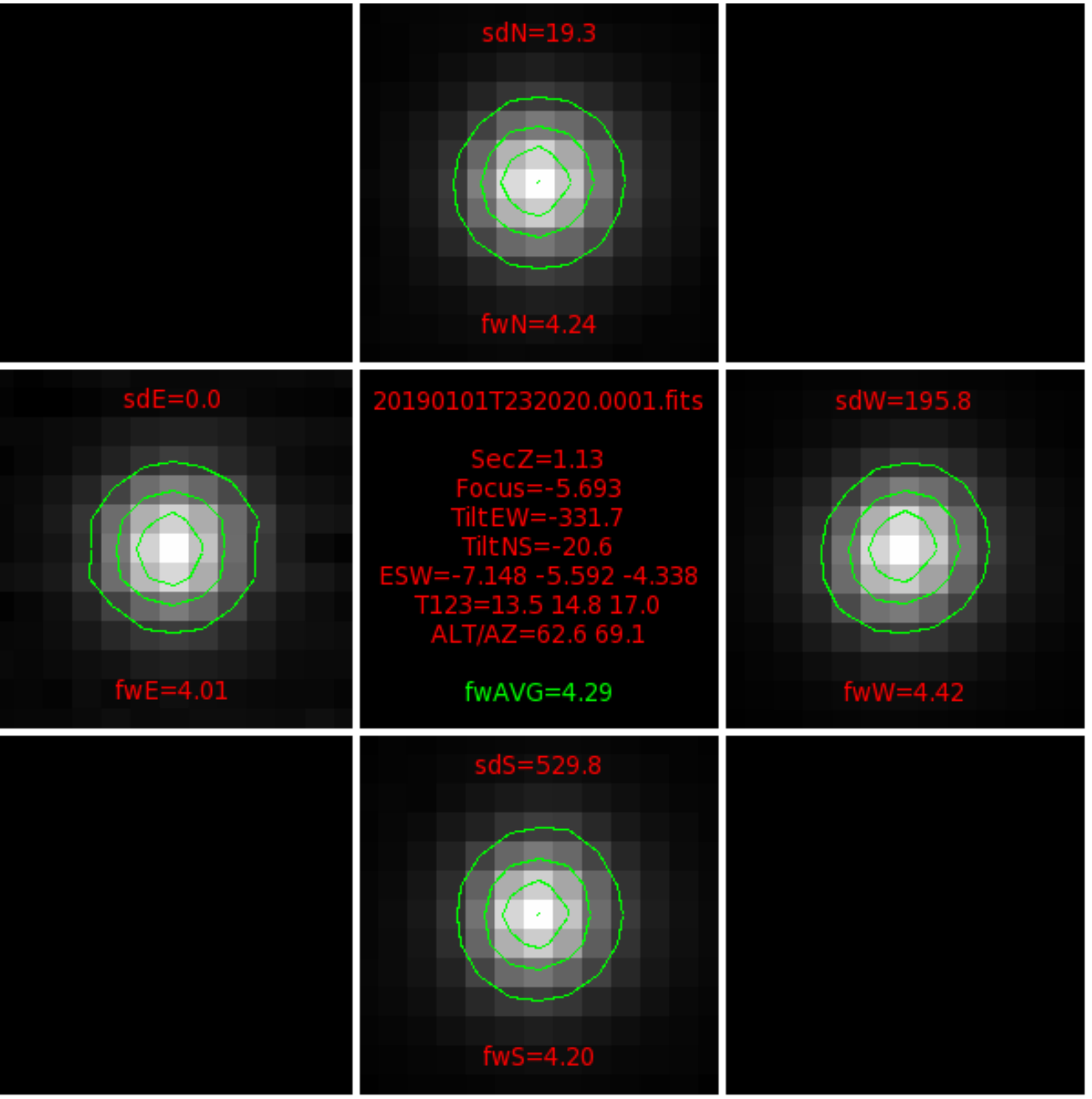
sdN=19.3
fwN=4.24
sdE=0.0
fwE=4.01
20190101T232020.0001.fits
SecZ=1.13
Focus=-5.693
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.148 -5.592 -4.338
T123=13.5 14.8 17.0
ALT/AZ=62.6 69.1
fwAVG=4.29
sdW=195.8
fwW=4.42
sdS=529.8
fwS=4.20
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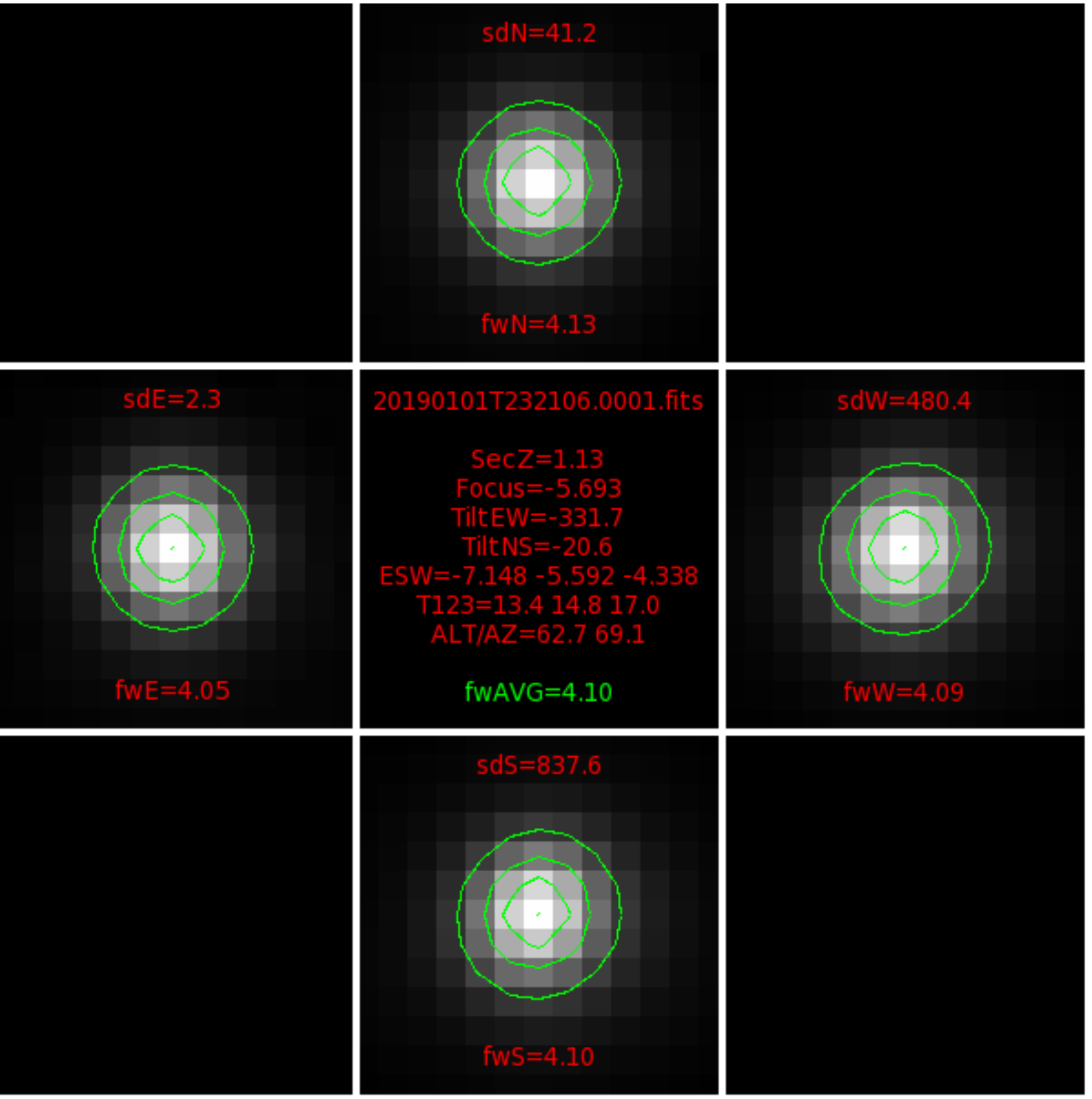
sdN=41.2
fwN=4.13
sdE=2.3
fwE=4.05
20190101T232106.0001.fits
SecZ=1.13
Focus=-5.693
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.148 -5.592 -4.338
T123=13.4 14.8 17.0
ALT/AZ=62.7 69.1
fwAVG=4.10
sdW=480.4
fwW=4.09
sdS=837.6
fwS=4.10
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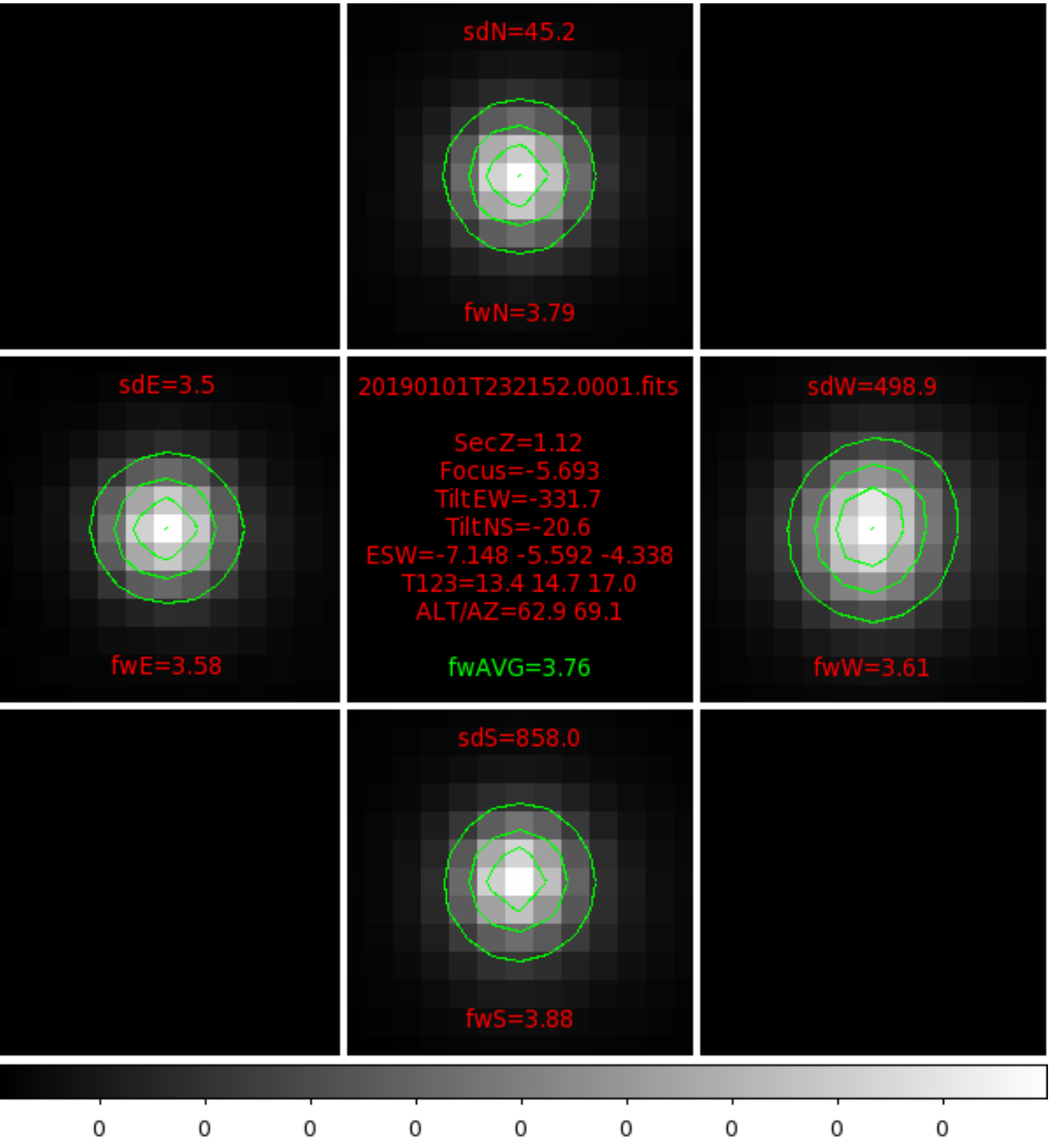
sdN=45.2
fwN=3.79
sdE=3.5
fwE=3.58
20190101T232152.0001.fits
SecZ=1.12
Focus=-5.693
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.148 -5.592 -4.338
T123=13.4 14.7 17.0
ALT/AZ=62.9 69.1
fwAVG=3.76
sdW=498.9
fwW=3.61
sdS=858.0
fwS=3.88
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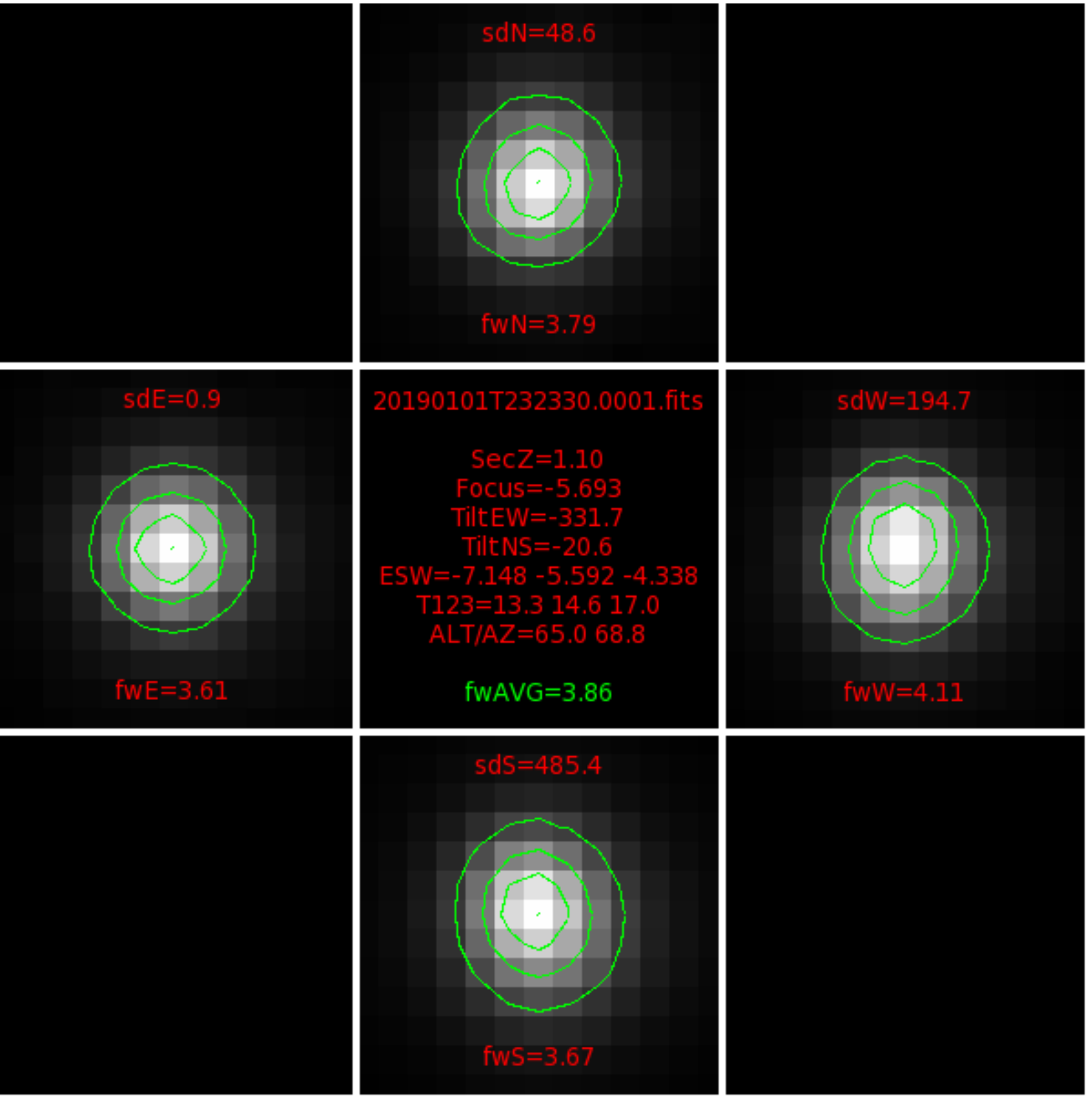
sdN=48.6
fwN=3.79
sdE=0.9
fwE=3.61
20190101T232330.0001.fits
SecZ=1.10
Focus=-5.693
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.148 -5.592 -4.338
T123=13.3 14.6 17.0
ALT/AZ=65.0 68.8
fwAVG=3.86
sdW=194.7
fwW=4.11
sdS=485.4
fwS=3.67
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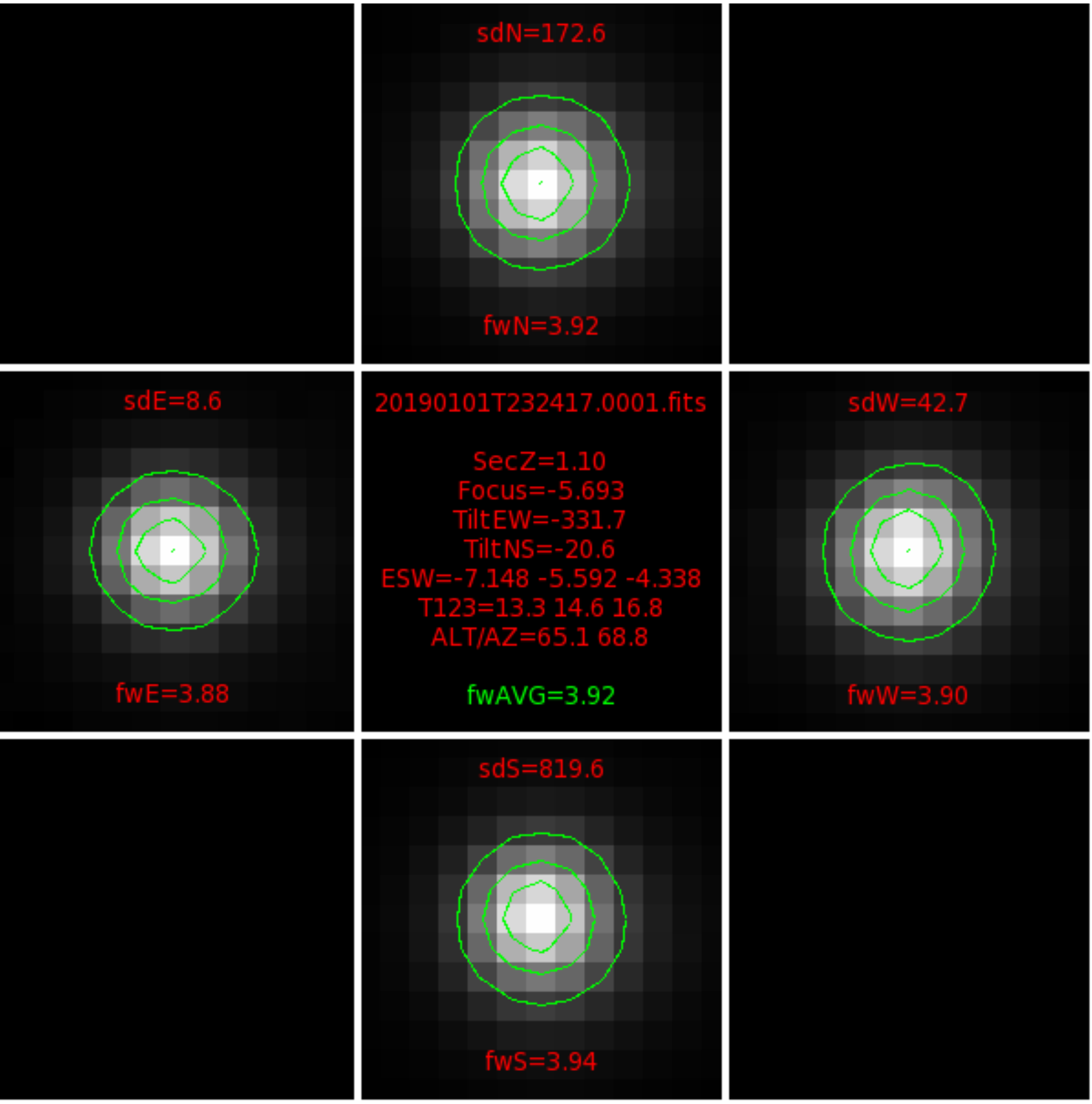
sdN=172.6
fwN=3.92
sdE=8.6
fwE=3.88
20190101T232417.0001.fits
SecZ=1.10
Focus=-5.693
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.148 -5.592 -4.338
T123=13.3 14.6 16.8
ALT/AZ=65.1 68.8
fwAVG=3.92
sdW=42.7
fwW=3.90
sdS=819.6
fwS=3.94
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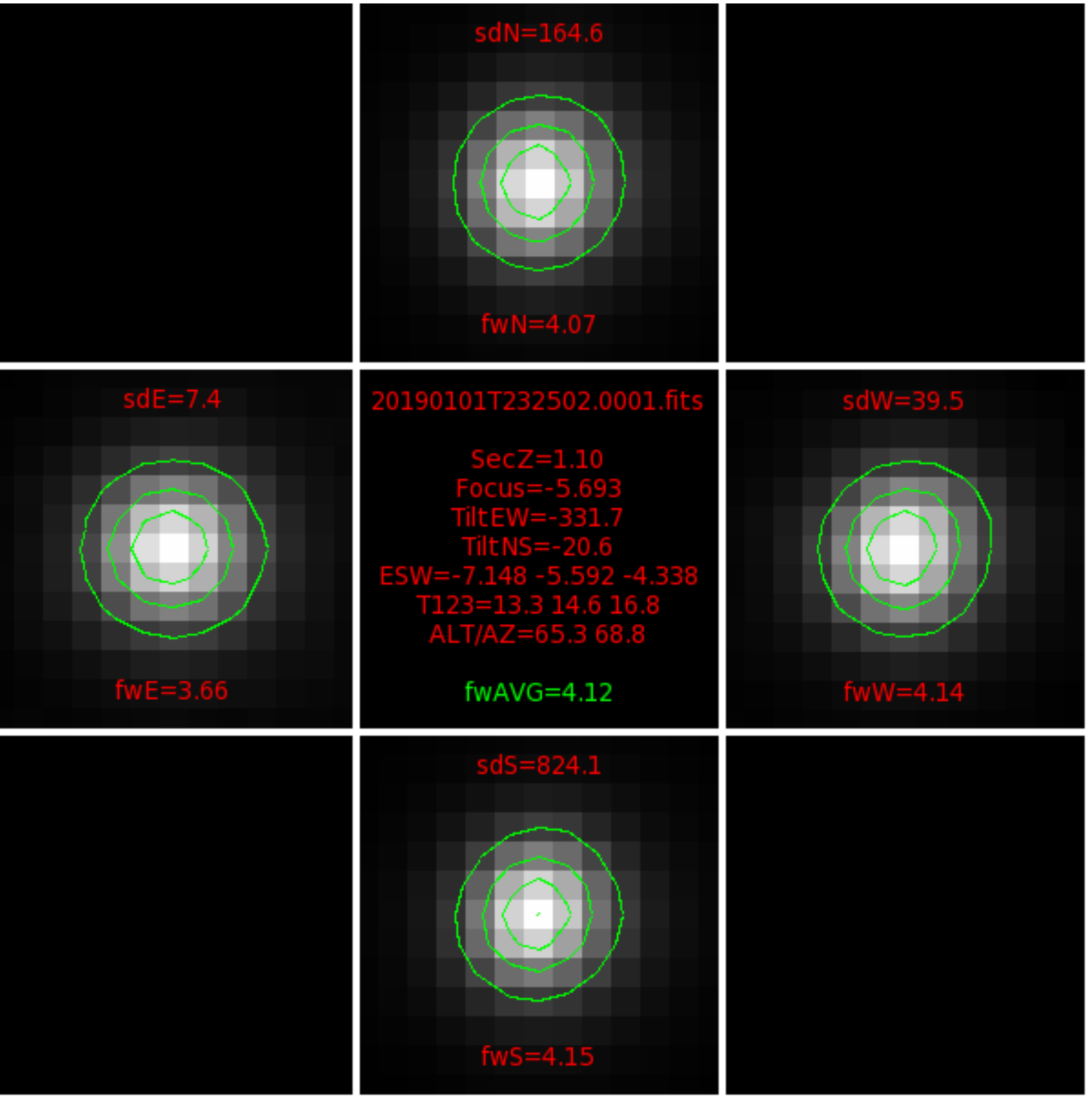
sdN=164.6
fwN=4.07
sdE=7.4
fwE=3.66
20190101T232502.0001.fits
SecZ=1.10
Focus=-5.693
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.148 -5.592 -4.338
T123=13.3 14.6 16.8
ALT/AZ=65.3 68.8
fwAVG=4.12
sdW=39.5
fwW=4.14
sdS=824.1
fwS=4.15
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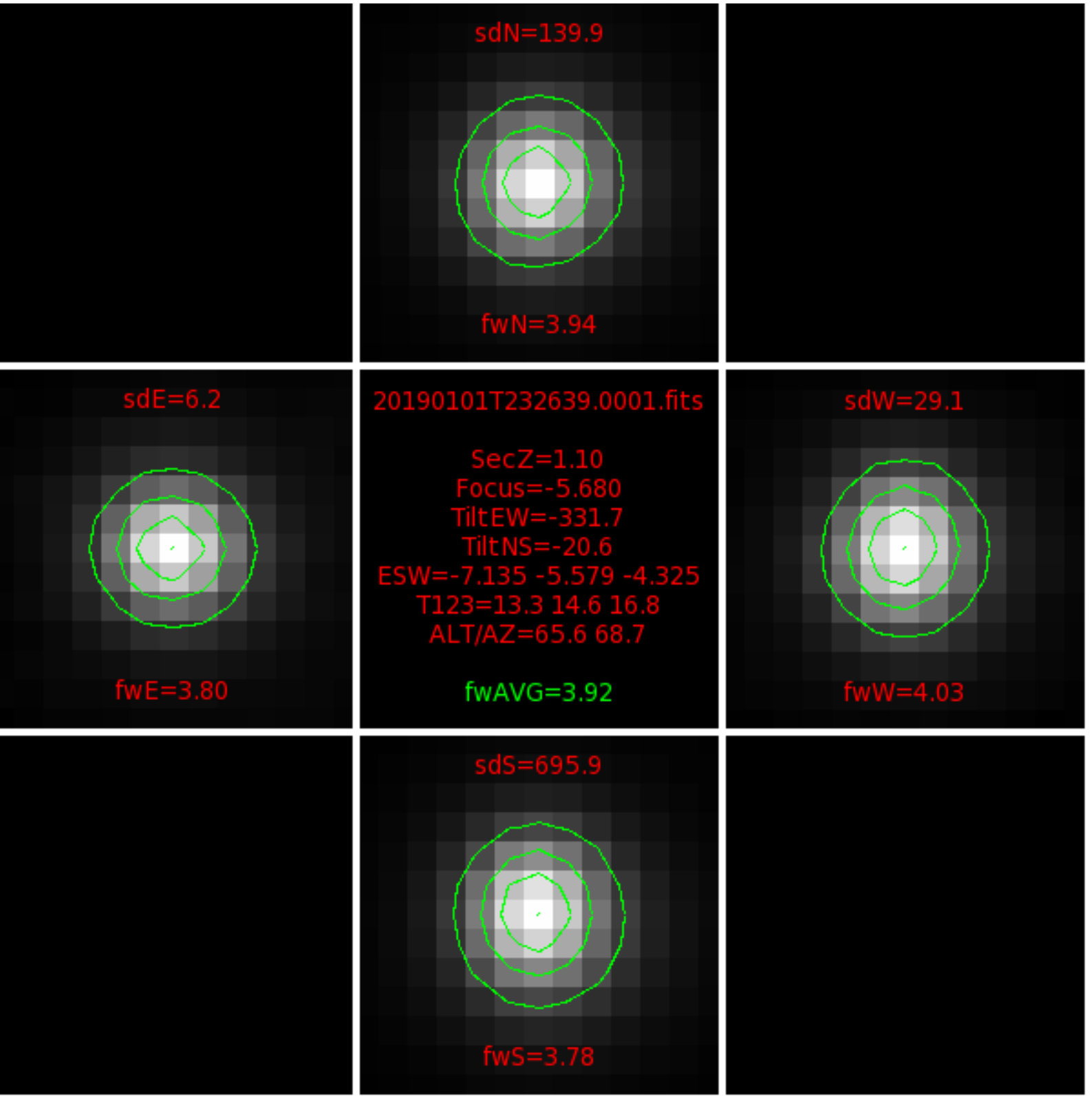
sdN=139.9
fwN=3.94
sdE=6.2
fwE=3.80
20190101T232639.0001.fits
SecZ=1.10
Focus=-5.680
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.135 -5.579 -4.325
T123=13.3 14.6 16.8
ALT/AZ=65.6 68.7
fwAVG=3.92
sdW=29.1
fwW=4.03
sdS=695.9
fwS=3.78
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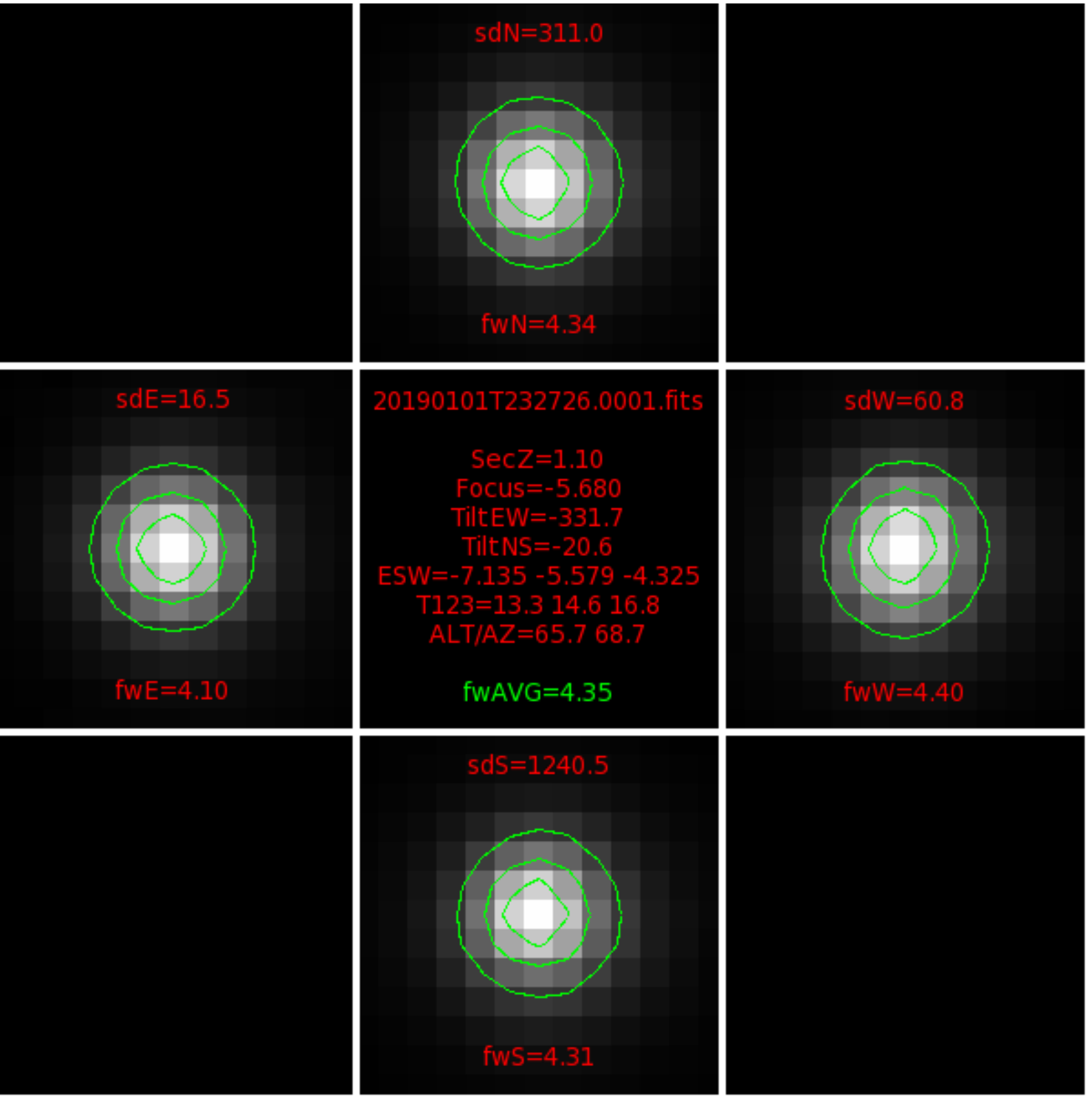
sdN=311.0
fwN=4.34
sdE=16.5
fwE=4.10
20190101T232726.0001.fits
SecZ=1.10
Focus=-5.680
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.135 -5.579 -4.325
T123=13.3 14.6 16.8
ALT/AZ=65.7 68.7
fwAVG=4.35
sdW=60.8
fwW=4.40
sdS=1240.5
fwS=4.31
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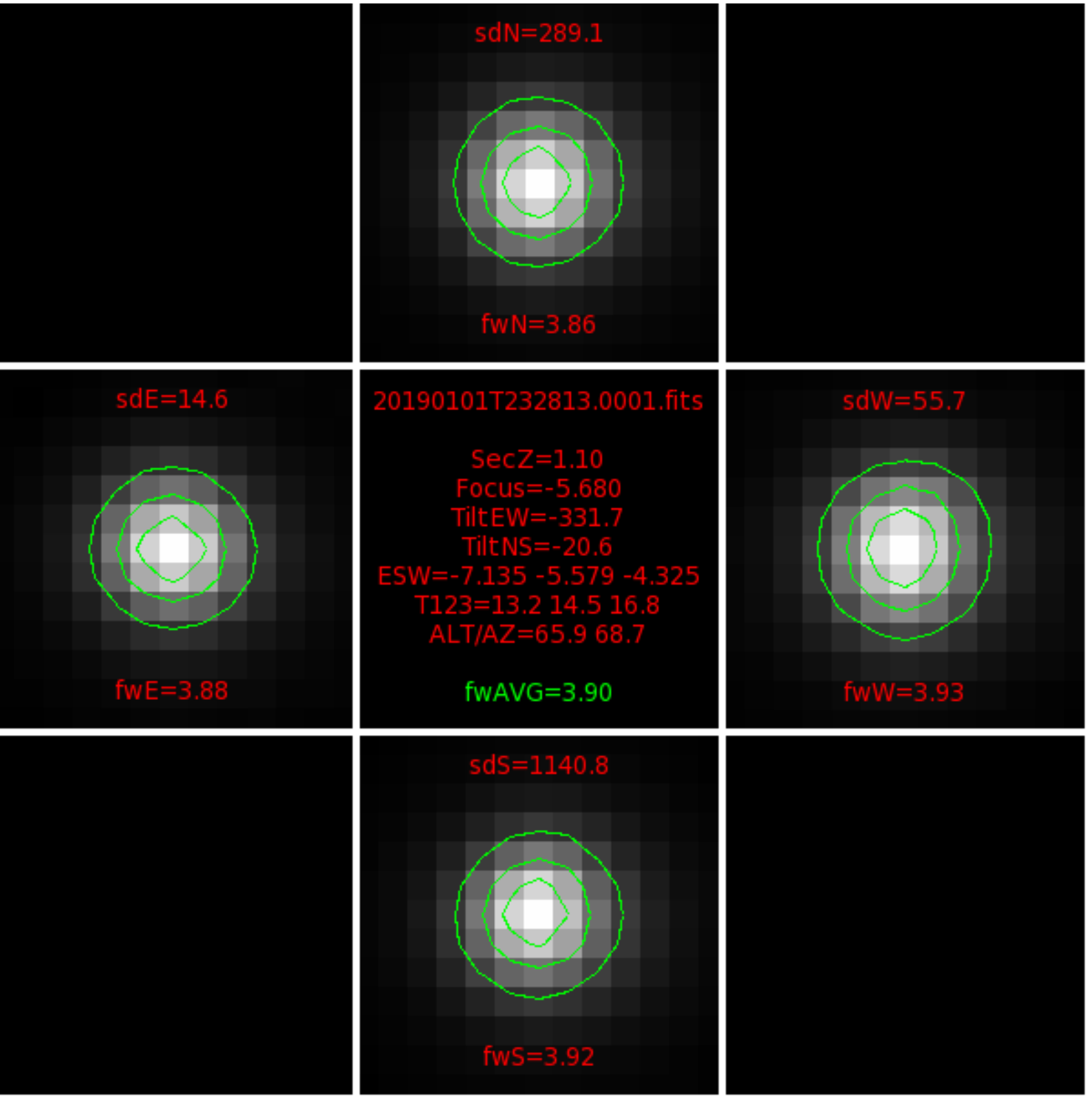
sdN=289.1
fwN=3.86
sdE=14.6
fwE=3.88
20190101T232813.0001.fits
SecZ=1.10
Focus=-5.680
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.135 -5.579 -4.325
T123=13.2 14.5 16.8
ALT/AZ=65.9 68.7
fwAVG=3.90
sdW=55.7
fwW=3.93
sdS=1140.8
fwS=3.92
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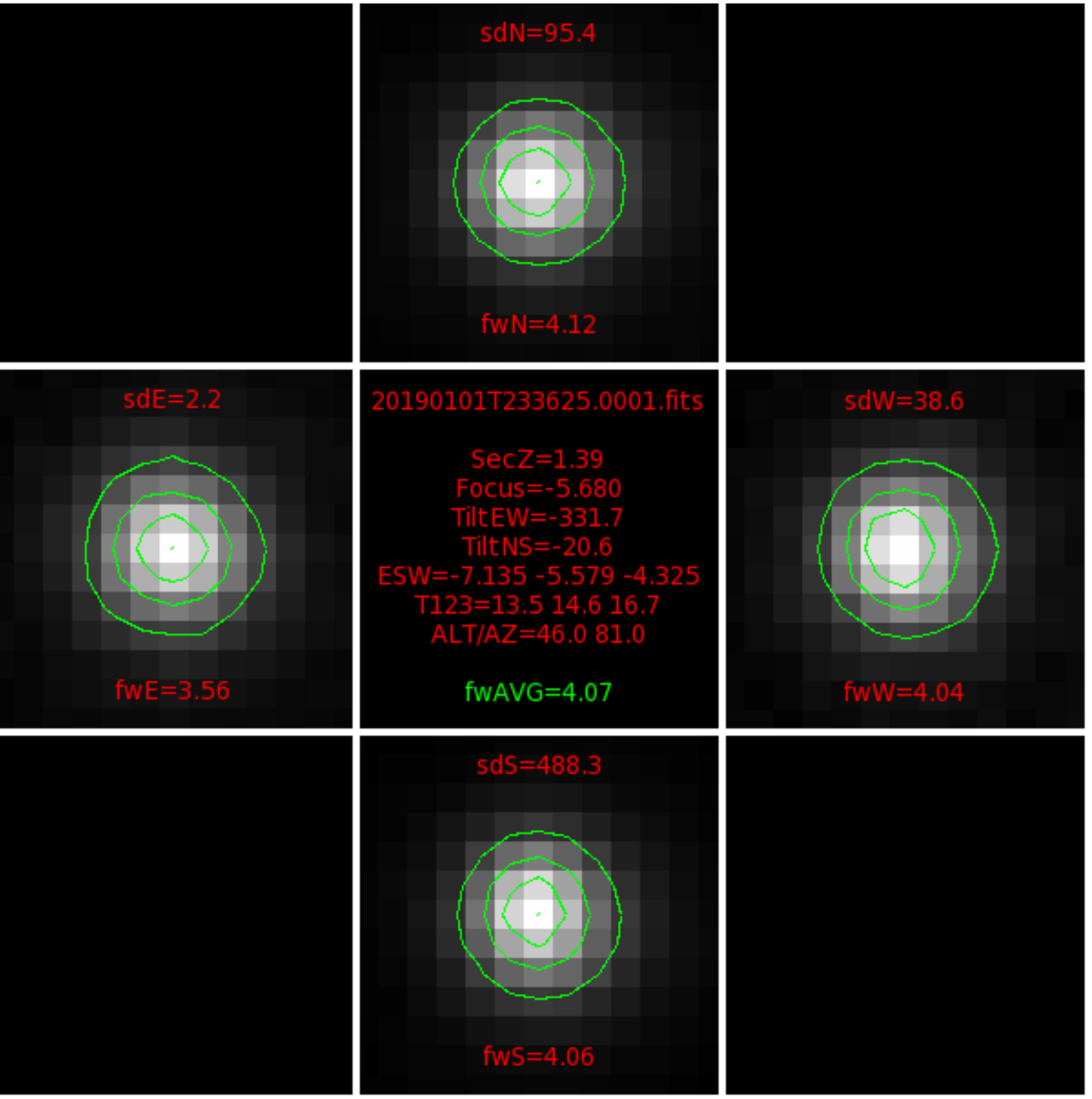
sdN=95.4
fwN=4.12
sdE=2.2
fwE=3.56
20190101T233625.0001.fits
SecZ=1.39
Focus=-5.680
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.135 -5.579 -4.325
T123=13.5 14.6 16.7
ALT/AZ=46.0 81.0
fwAVG=4.07
sdW=38.6
fwW=4.04
sdS=488.3
fwS=4.06
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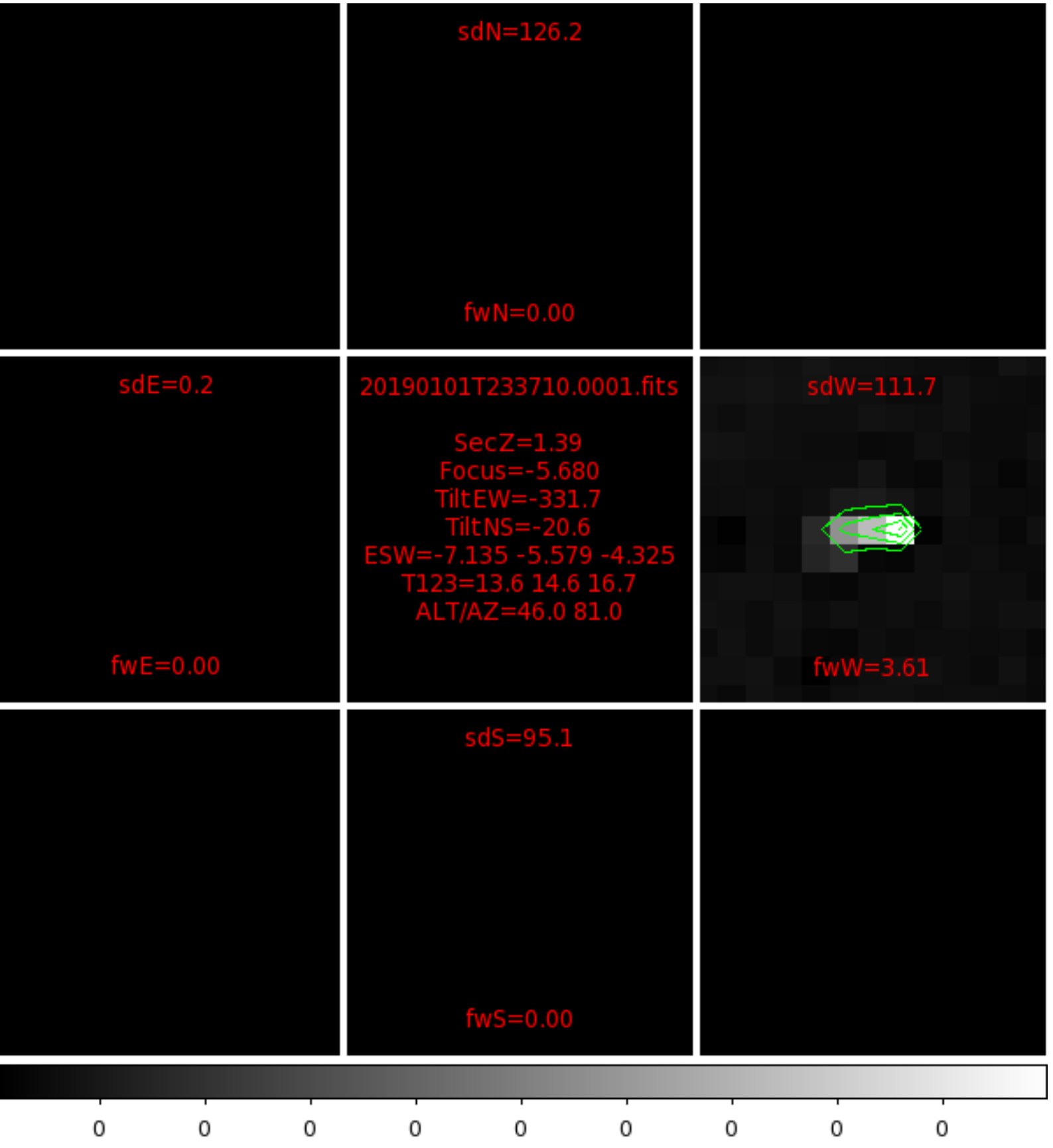
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fwN=0.00
sdE=0.2
20190101T233710.0001.fits
SecZ=1.39
Focus=-5.680
TiltEW=-331.7
TiltNS=-20.6
ESW=-7.135 -5.579 -4.325
T123=13.6 14.6 16.7
ALT/AZ=46.0 81.0
sdW=111.7
fwE=0.00
fwW=3.61
sdS=95.1
fwS=0.00
0 0 0 0 0 0 0 0 0