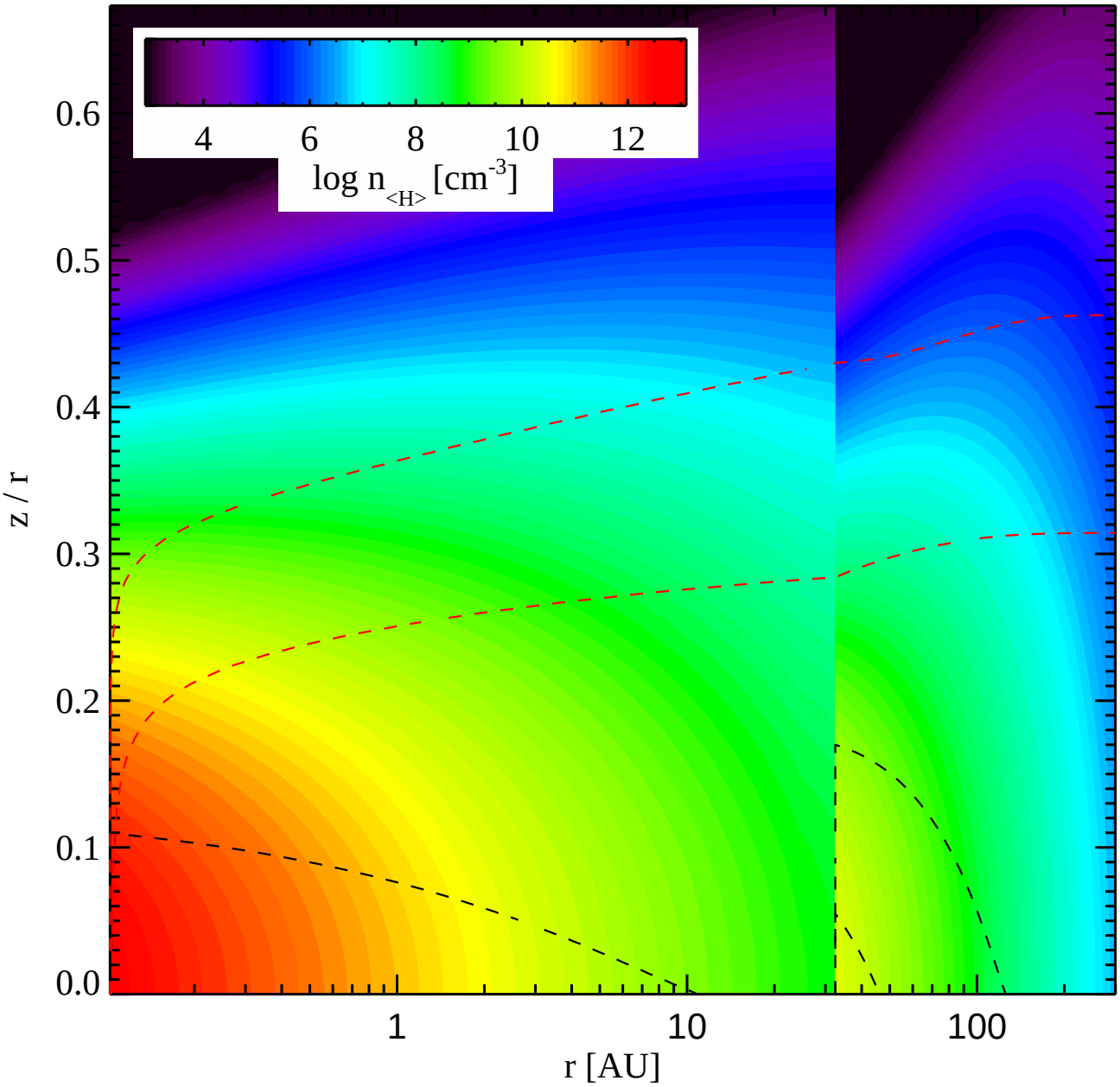
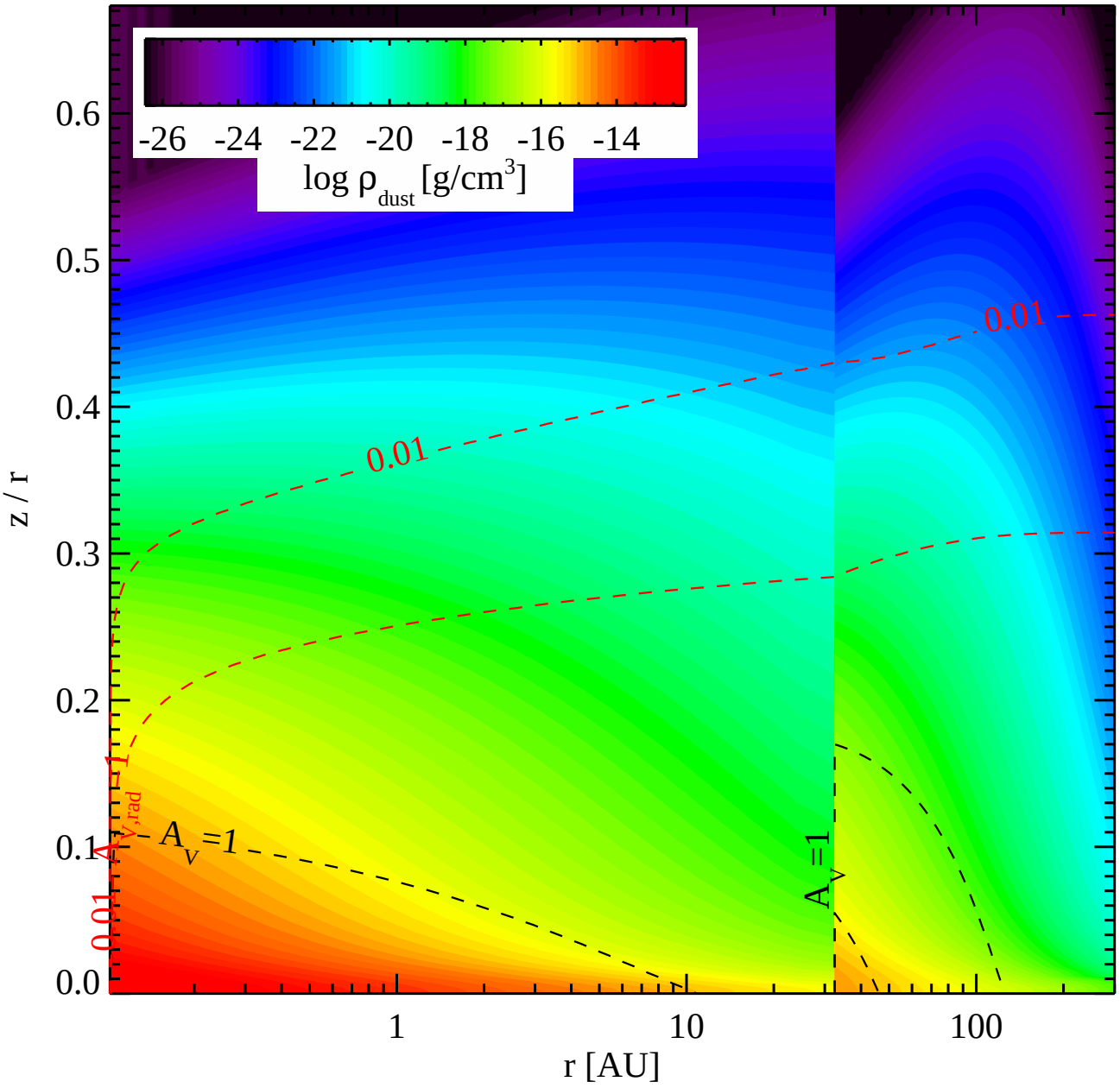
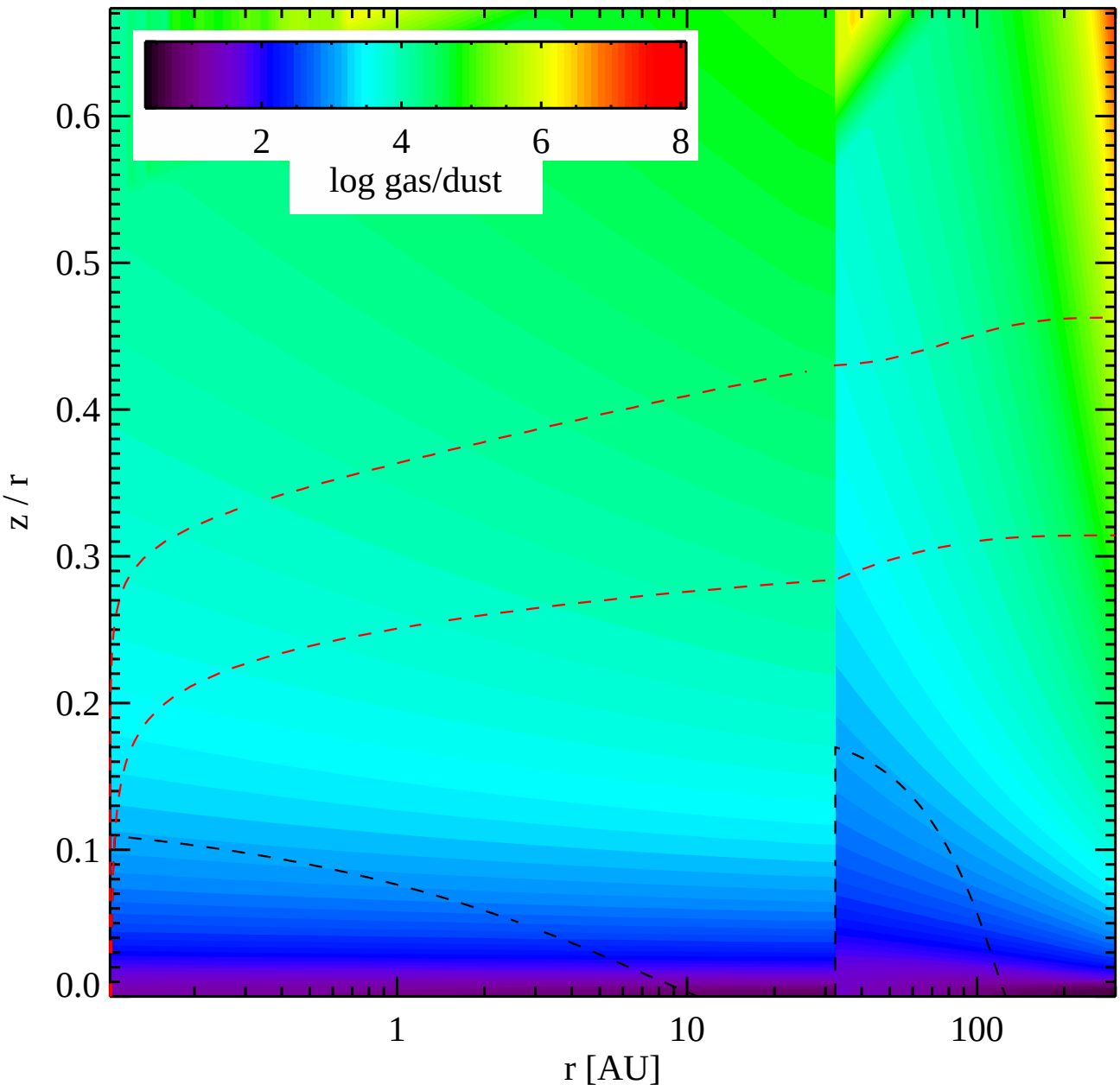
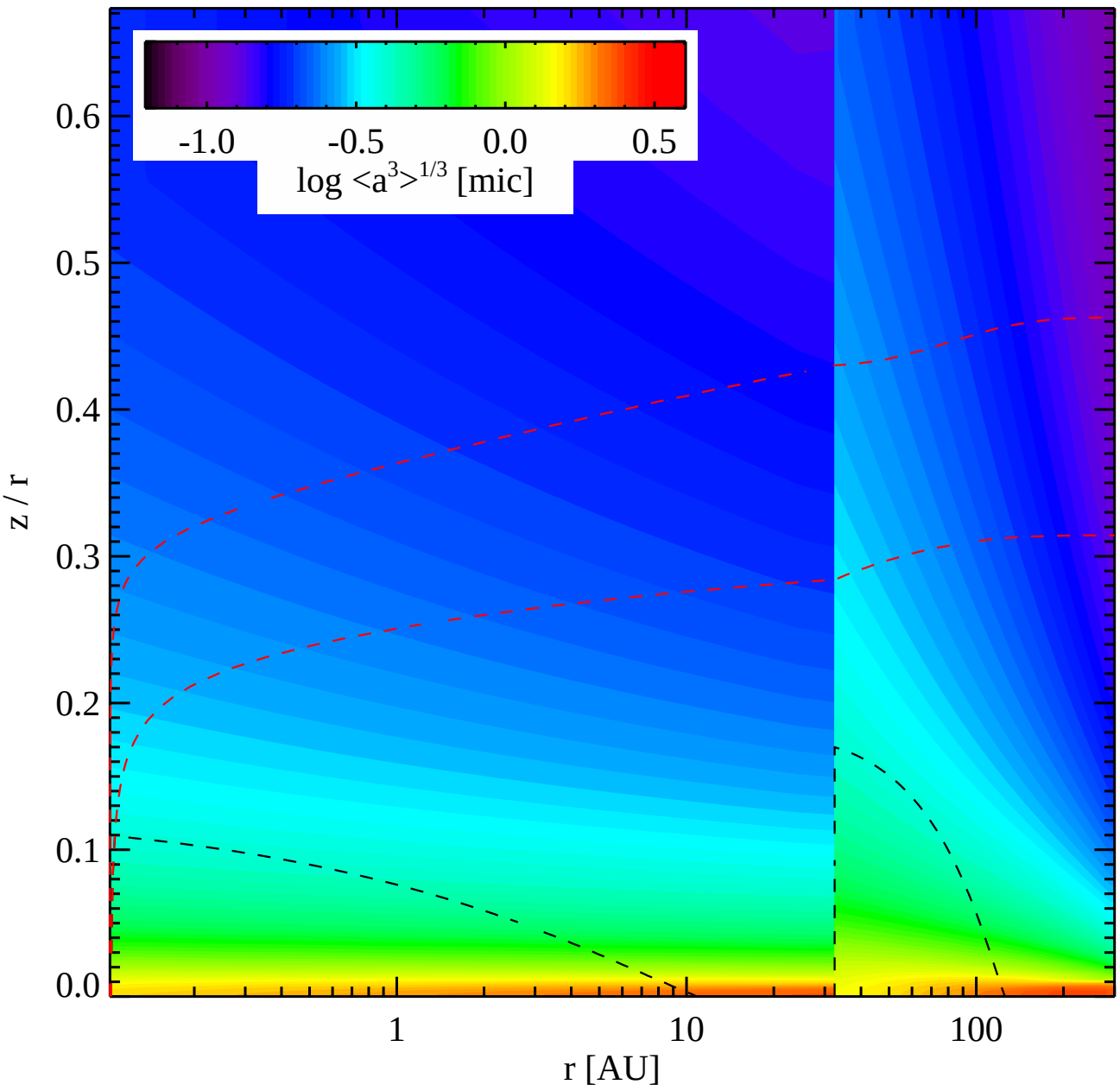
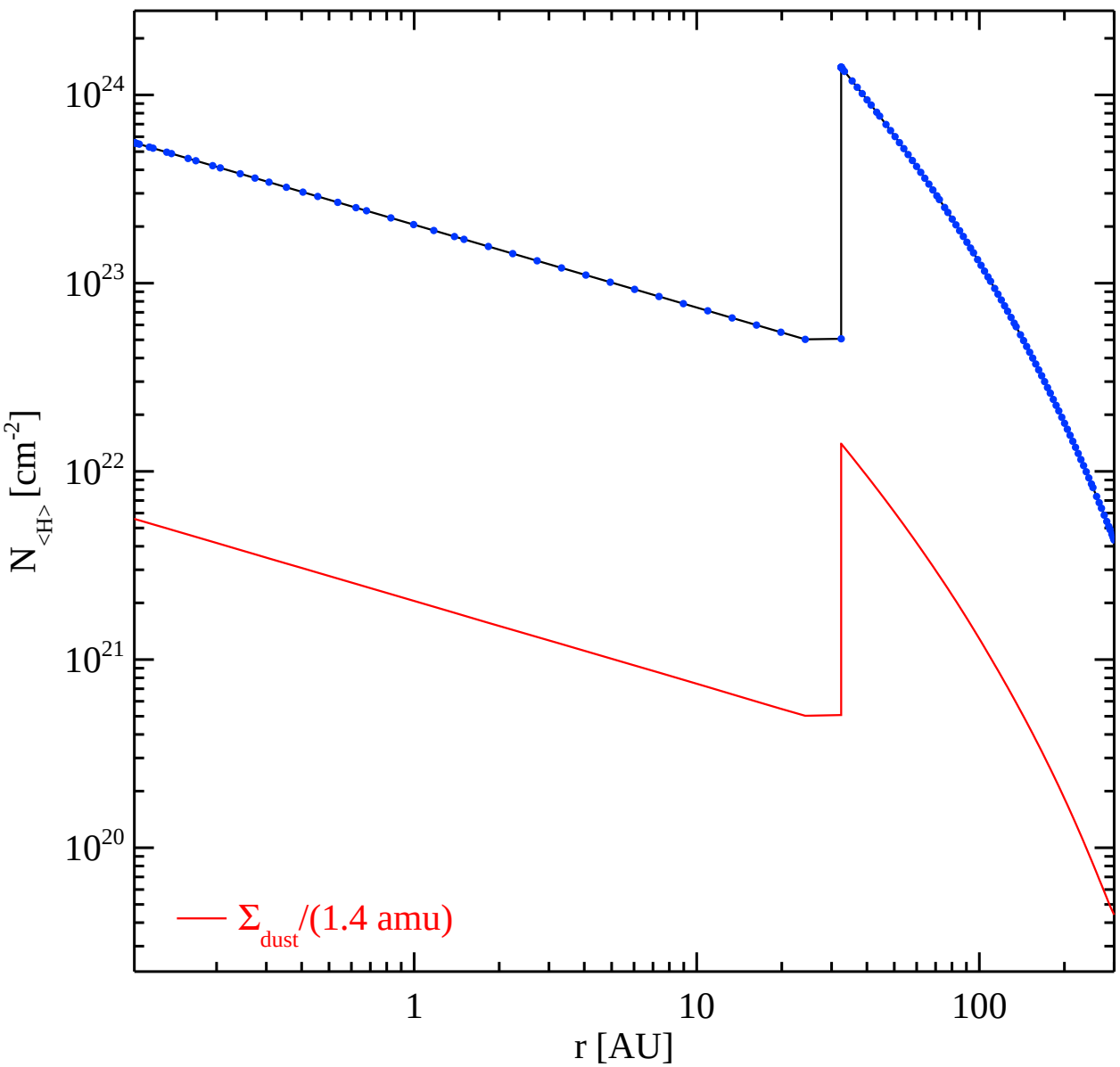
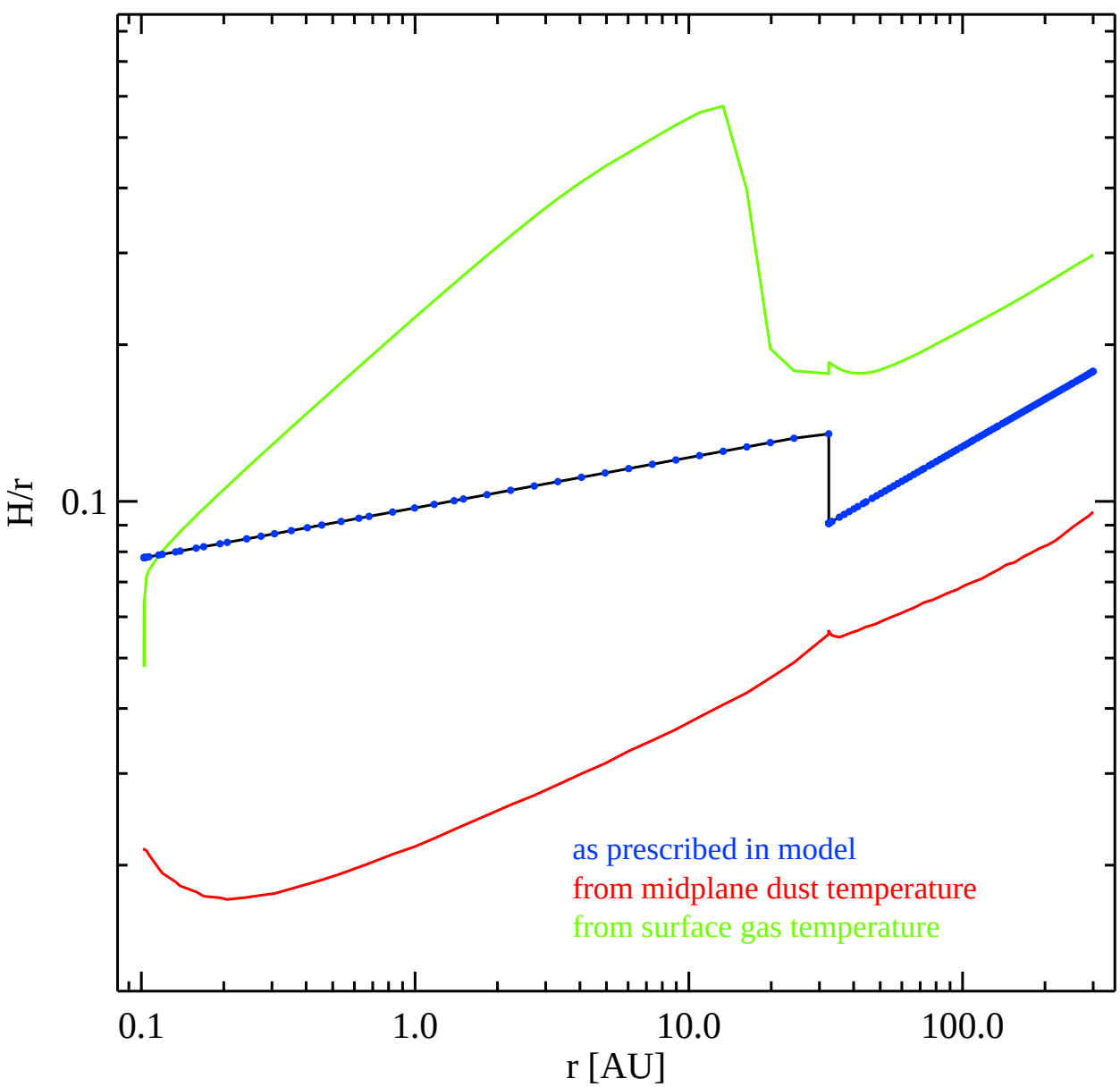

4
6
8
10
12
log n<H> [cm-3]
0.6
0.5
0.4
0.3
0.2
0.1
0.0
z / r
1
10
100
r [AU]

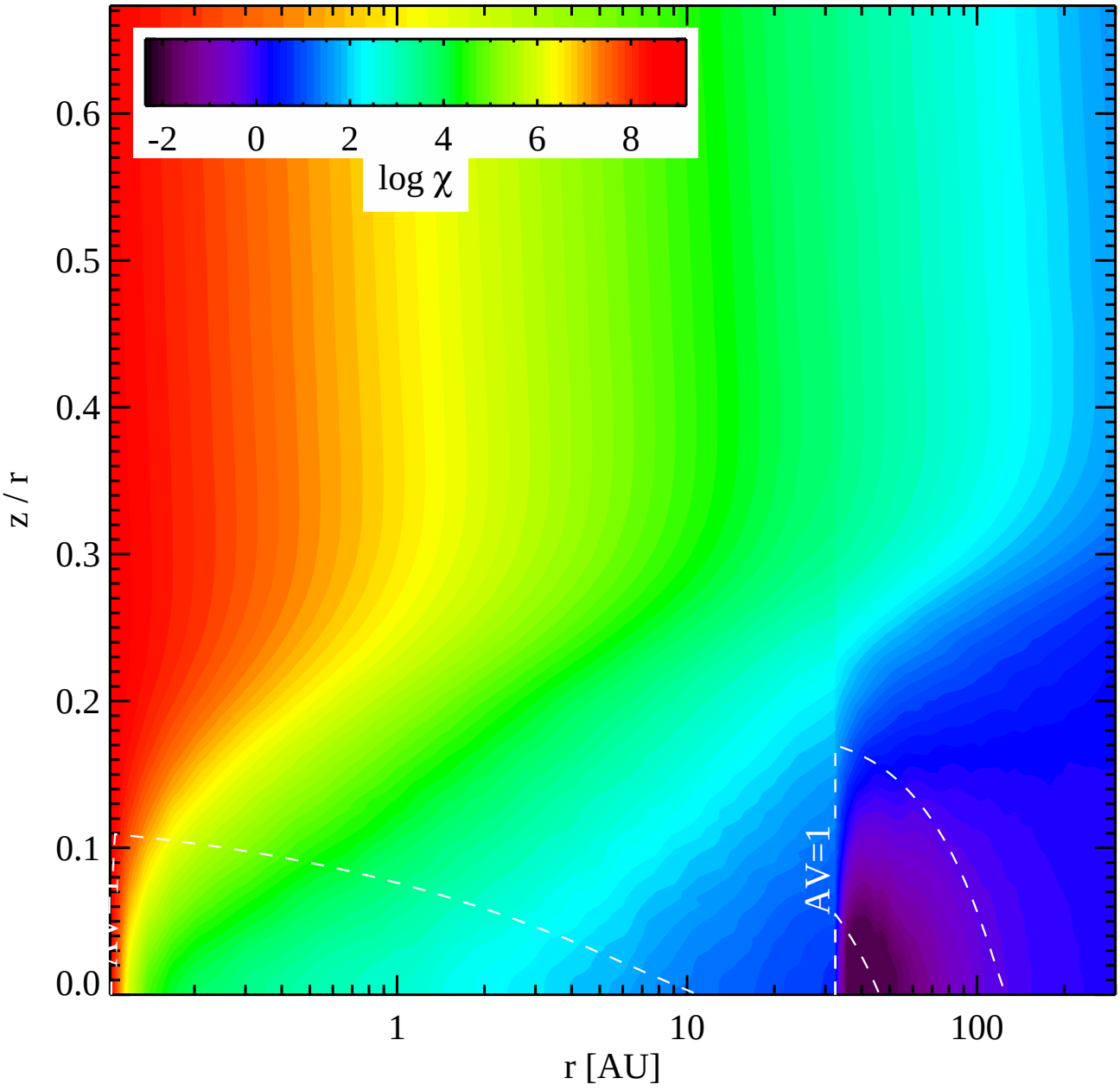

-26 -24 -22 -20 -18 -16 -14
log ρ dust [g/cm3]
0.6
0.5
0.4
0.3
0.2
0.1
0.0
z / r
1
10
100
r [AU]
0.01
0.01
0.01
AV,rad=1
AV=1
AV=1

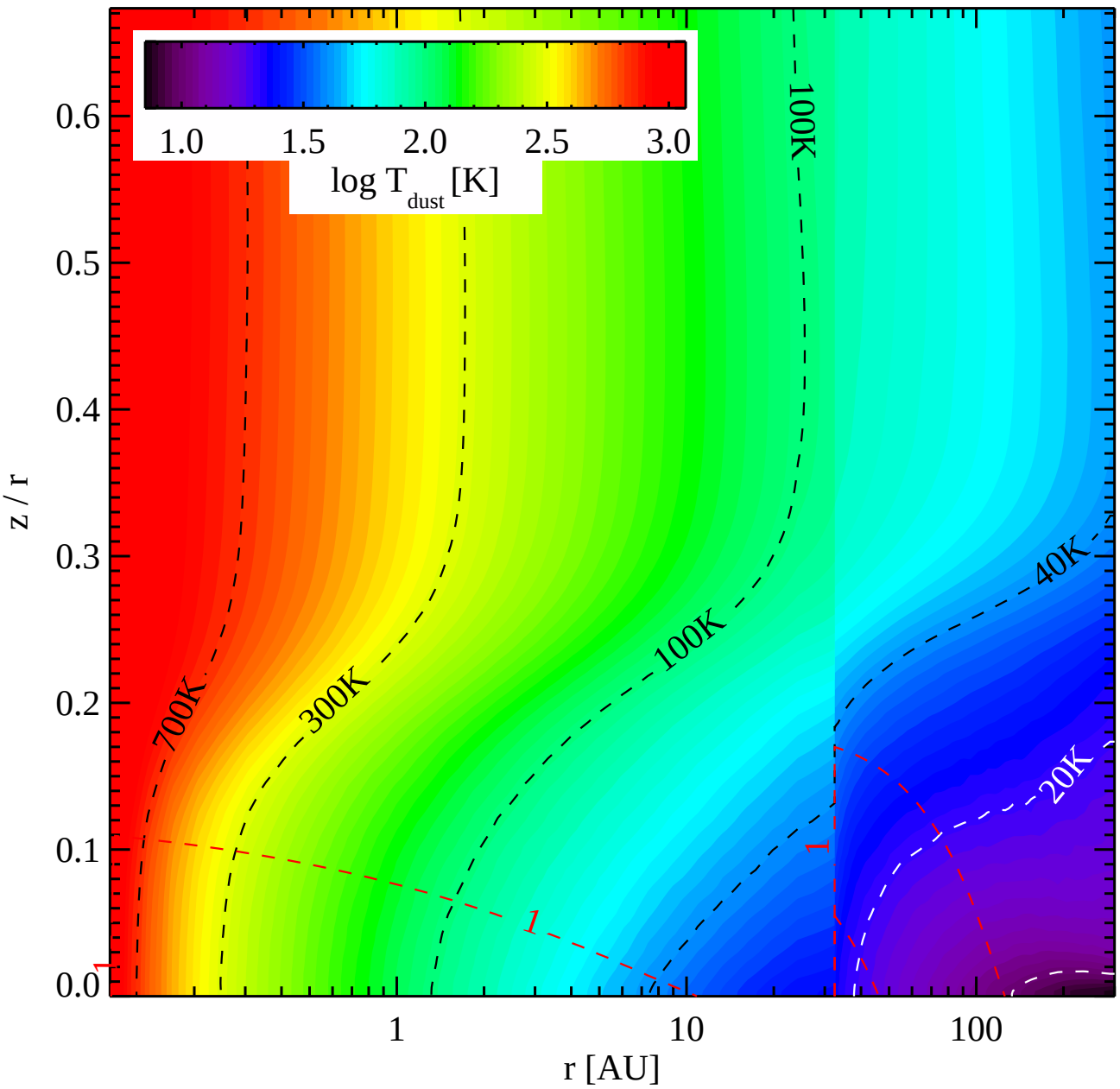

2
4
6
8
log gas/dust
0.6
0.5
0.4
0.3
0.2
0.1
0.0
z / r
1
10
100
r [AU]

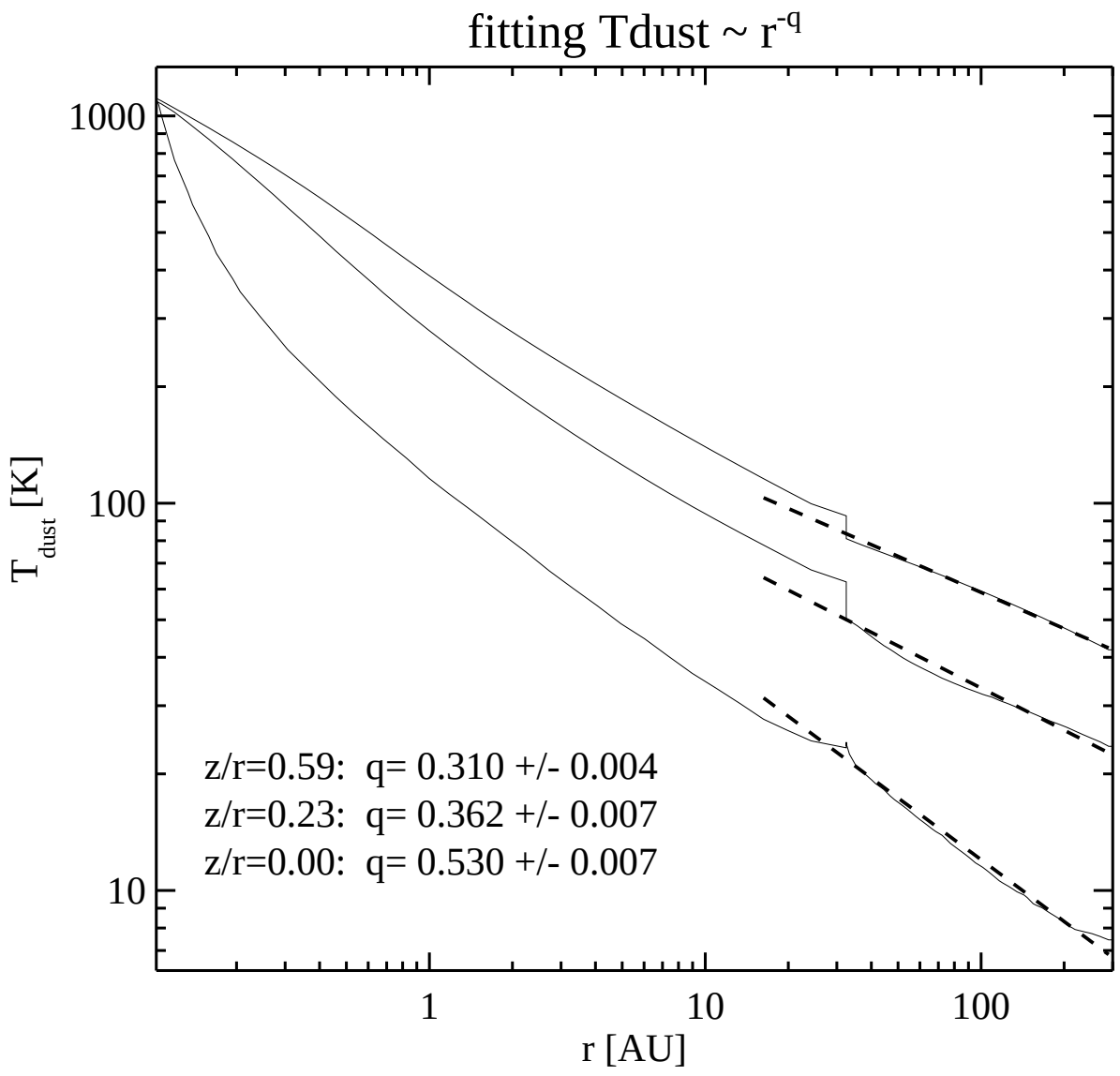

-1.0
-0.5
0.0
0.5
log <a^3>^1/3 [mic]
0.6
0.5
0.4
0.3
0.2
0.1
0.0
z / r
1
10
100
r [AU]

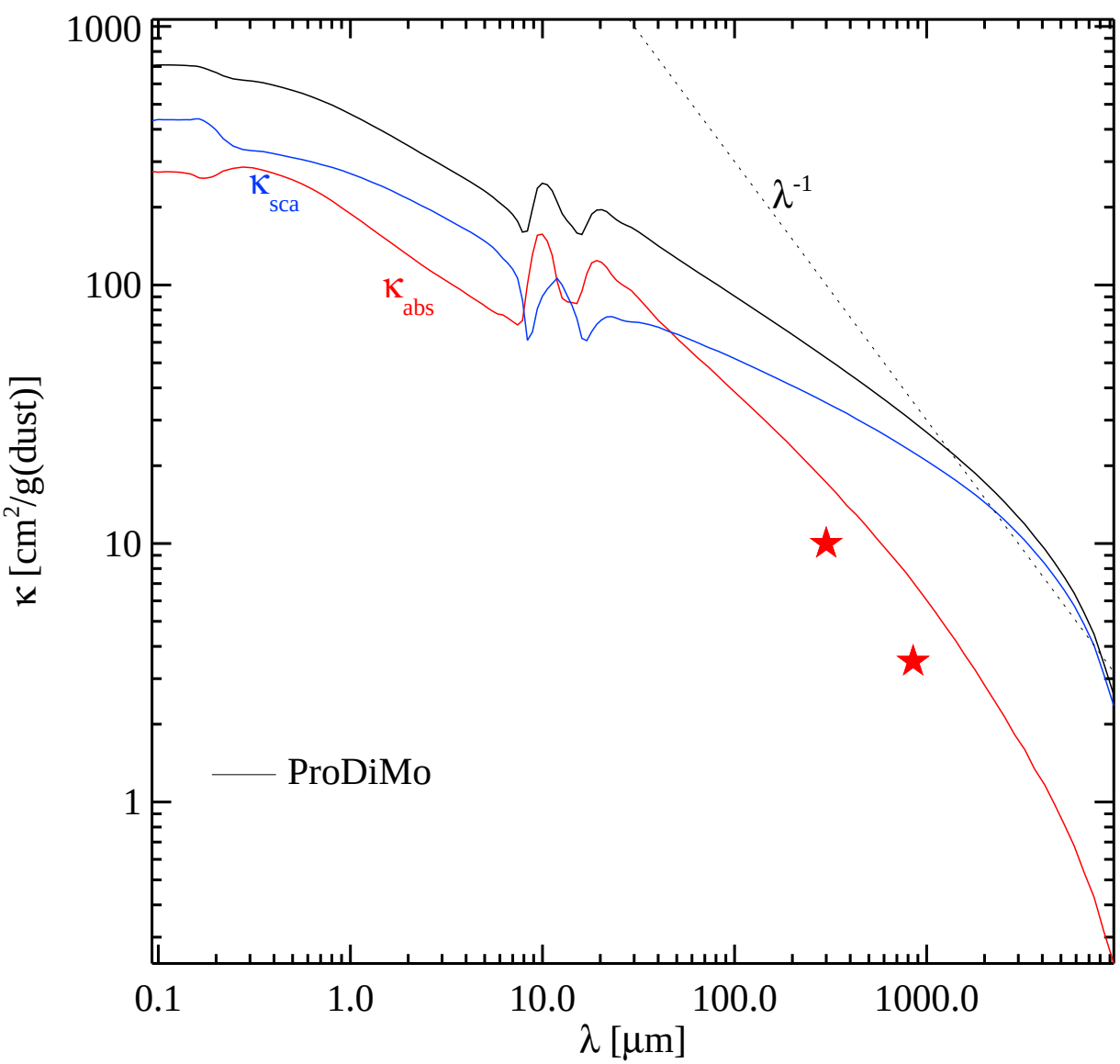

10^{24}
10^{23}
10^{22}
10^{21}
10^{20}
$N_{<H>}$ [cm^{-2}]
1
10
100
r [AU]
Σ_{dust}/(1.4 amu)

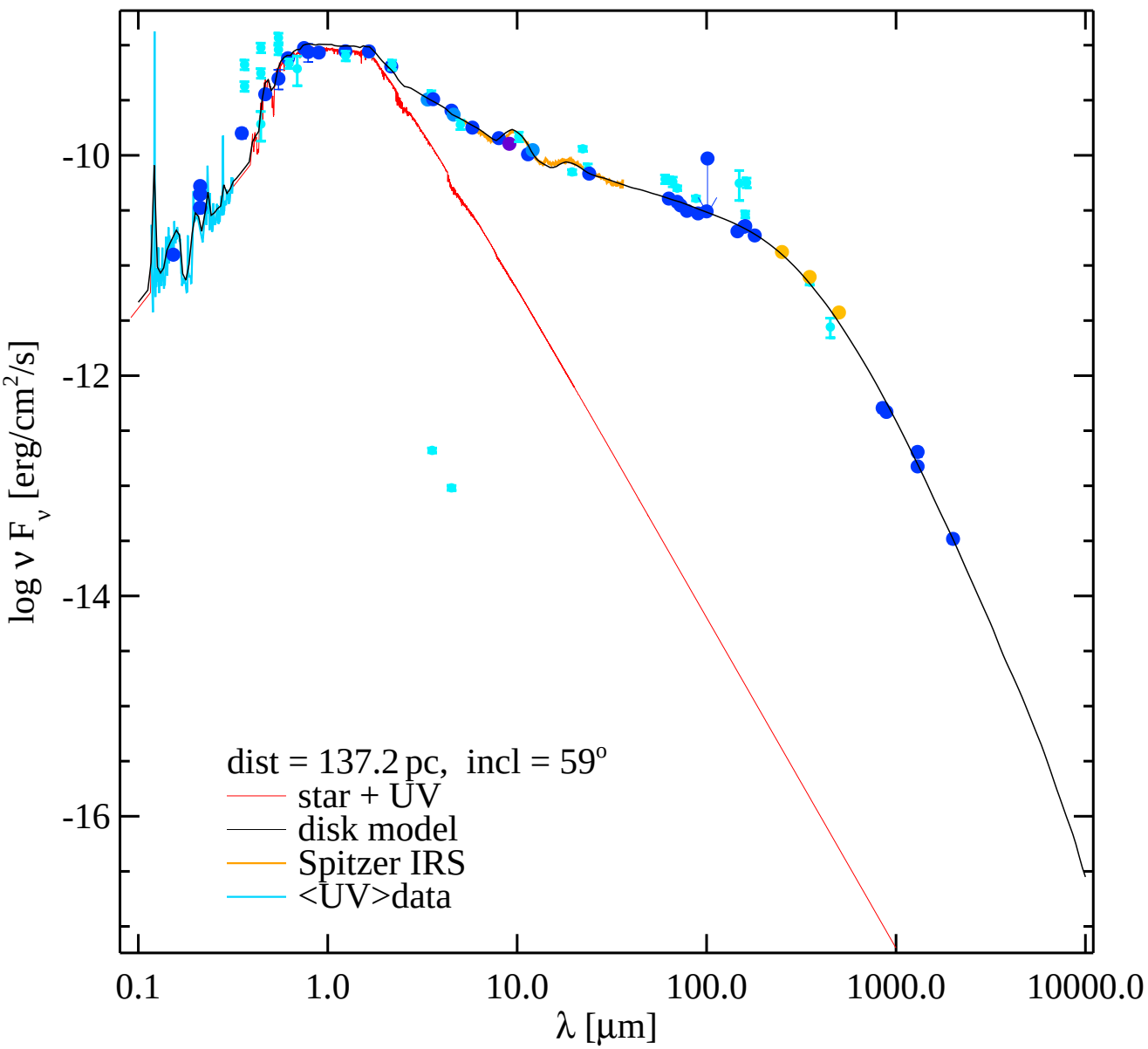

H/r
0.1
0.1
1.0
10.0
100.0
r [AU]
as prescribed in model
from midplane dust temperature
from surface gas temperature

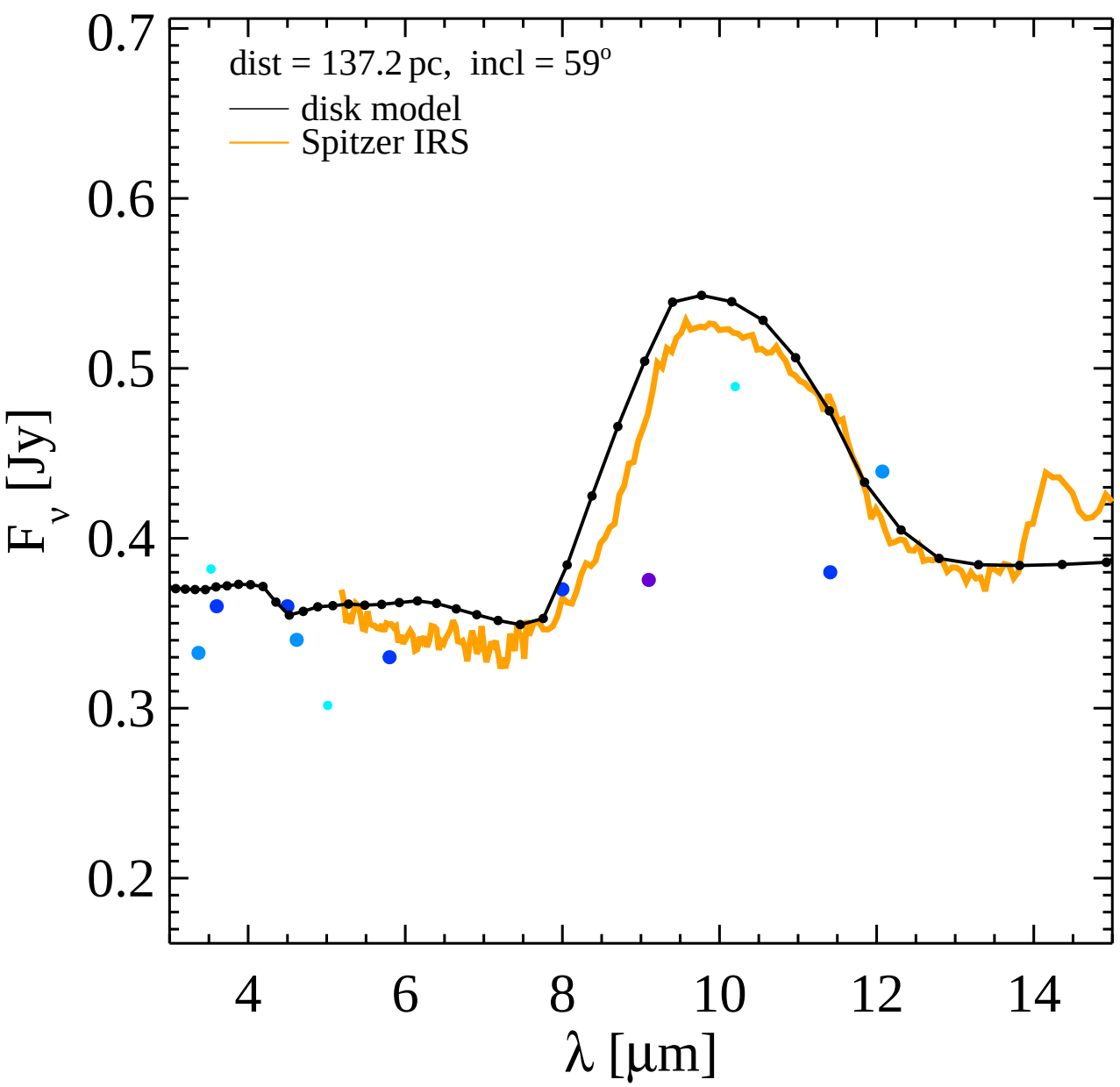

-2
0
2
4
6
8
log χ
0.6
0.5
0.4
0.3
0.2
0.1
0.0
z / r
AV=1
1
10
100
r [AU]

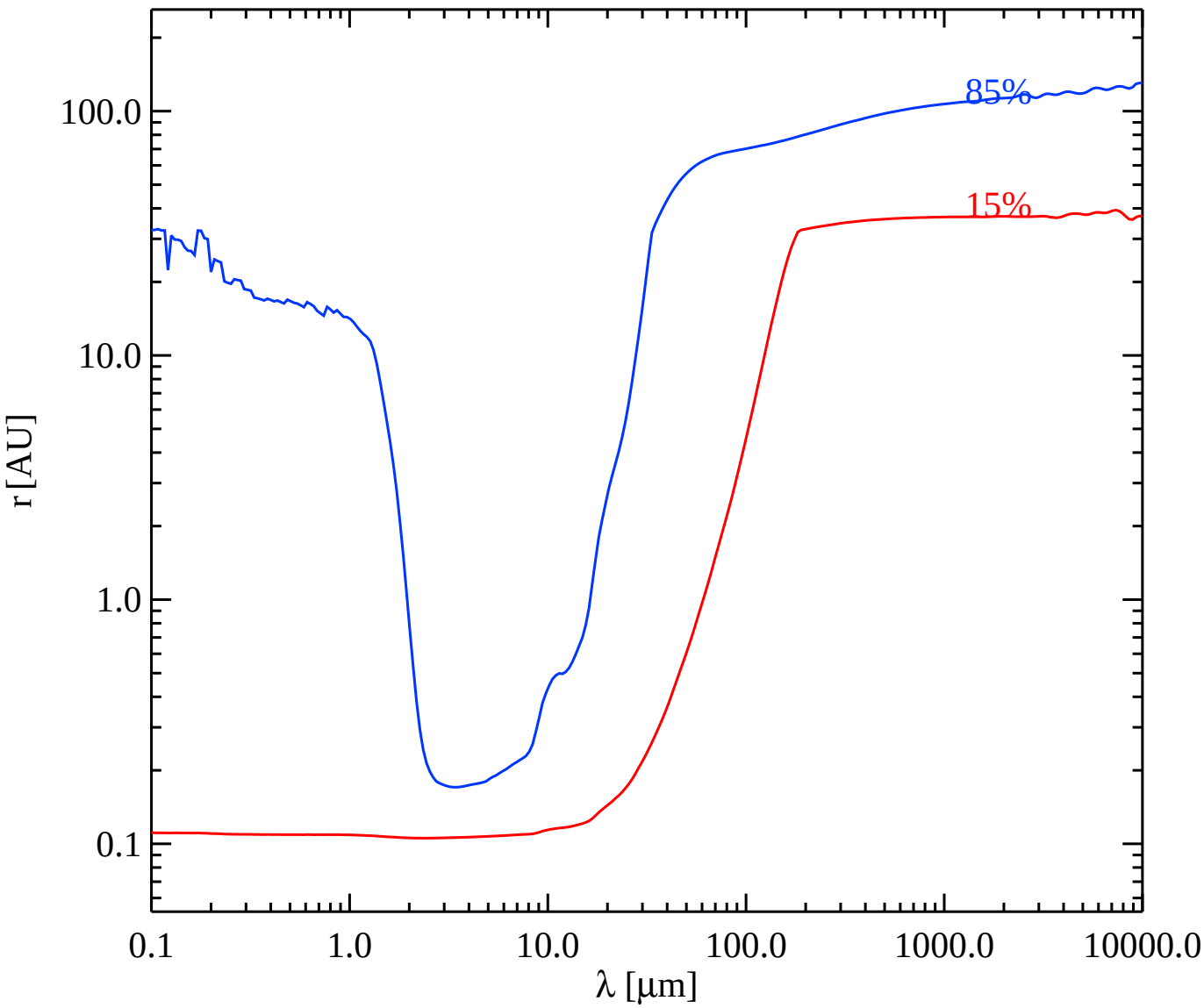

1.0
1.5
2.0
2.5
3.0
log T dust [K]
0.6
0.5
0.4
0.3
0.2
0.1
0.0
z / r
1
10
100
r [AU]
700K
300K
100K
100K
40K
20K
1
1
1

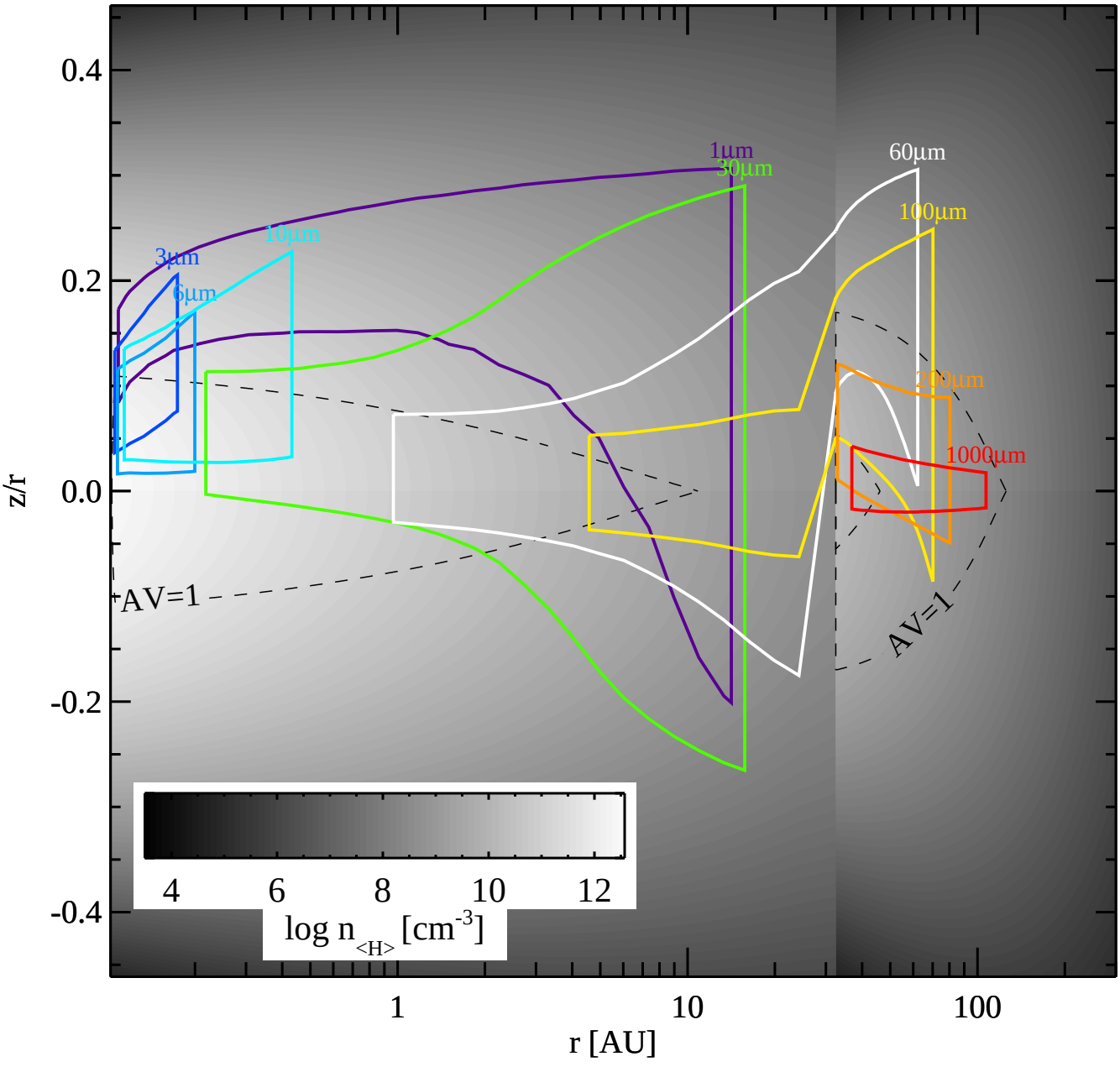

fitting Tdust ~ r^-q
1000
100
10
T dust [K]
1
10
100
r [AU]
z/r=0.59: q= 0.310 +/- 0.004
z/r=0.23: q= 0.362 +/- 0.007
z/r=0.00: q= 0.530 +/- 0.007

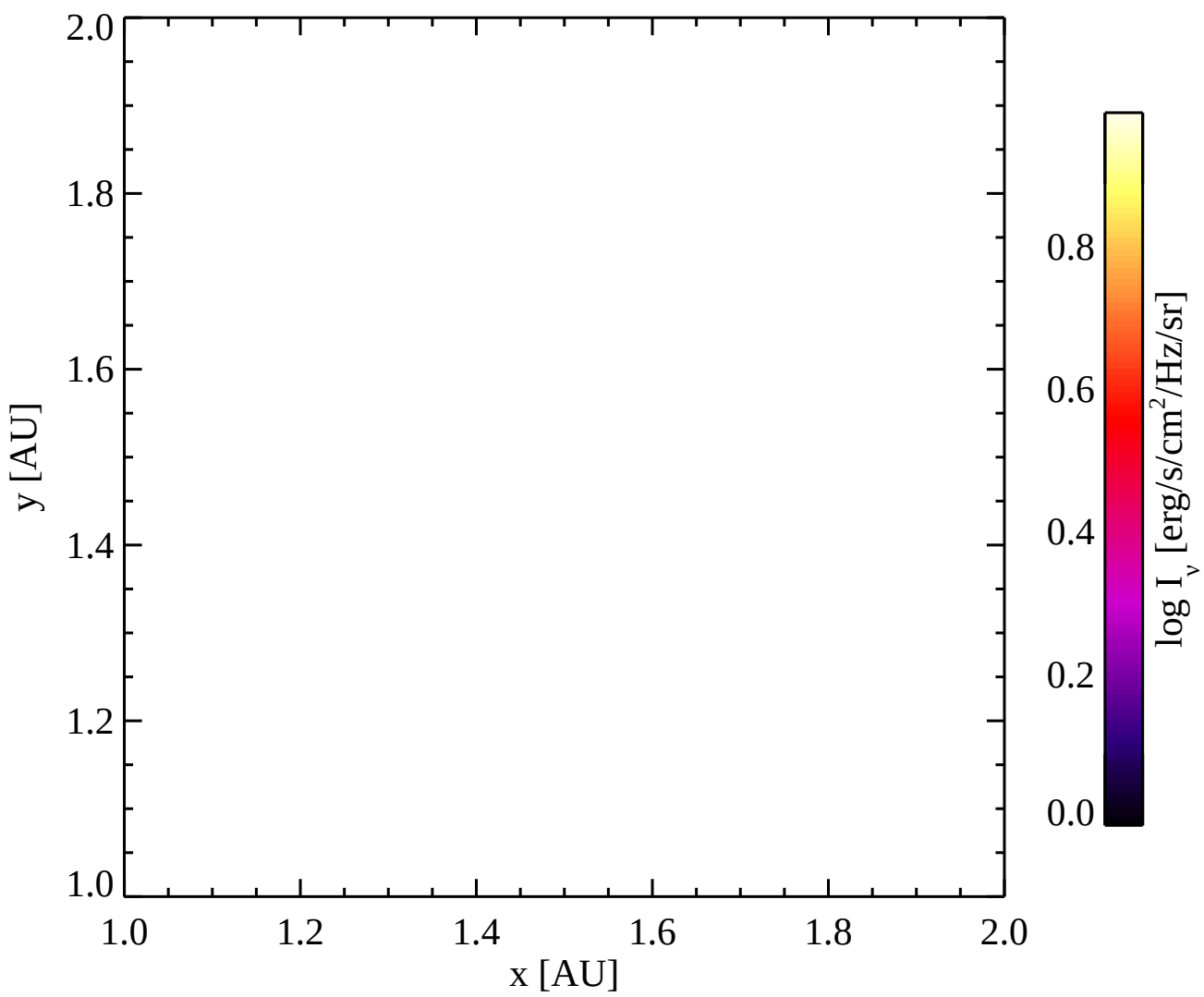

1000
100
10
1
κ [cm²/g(dust)]
κsca
κabs
λ-1
ProDiMo
0.1
1.0
10.0
100.0
1000.0
λ [μm]

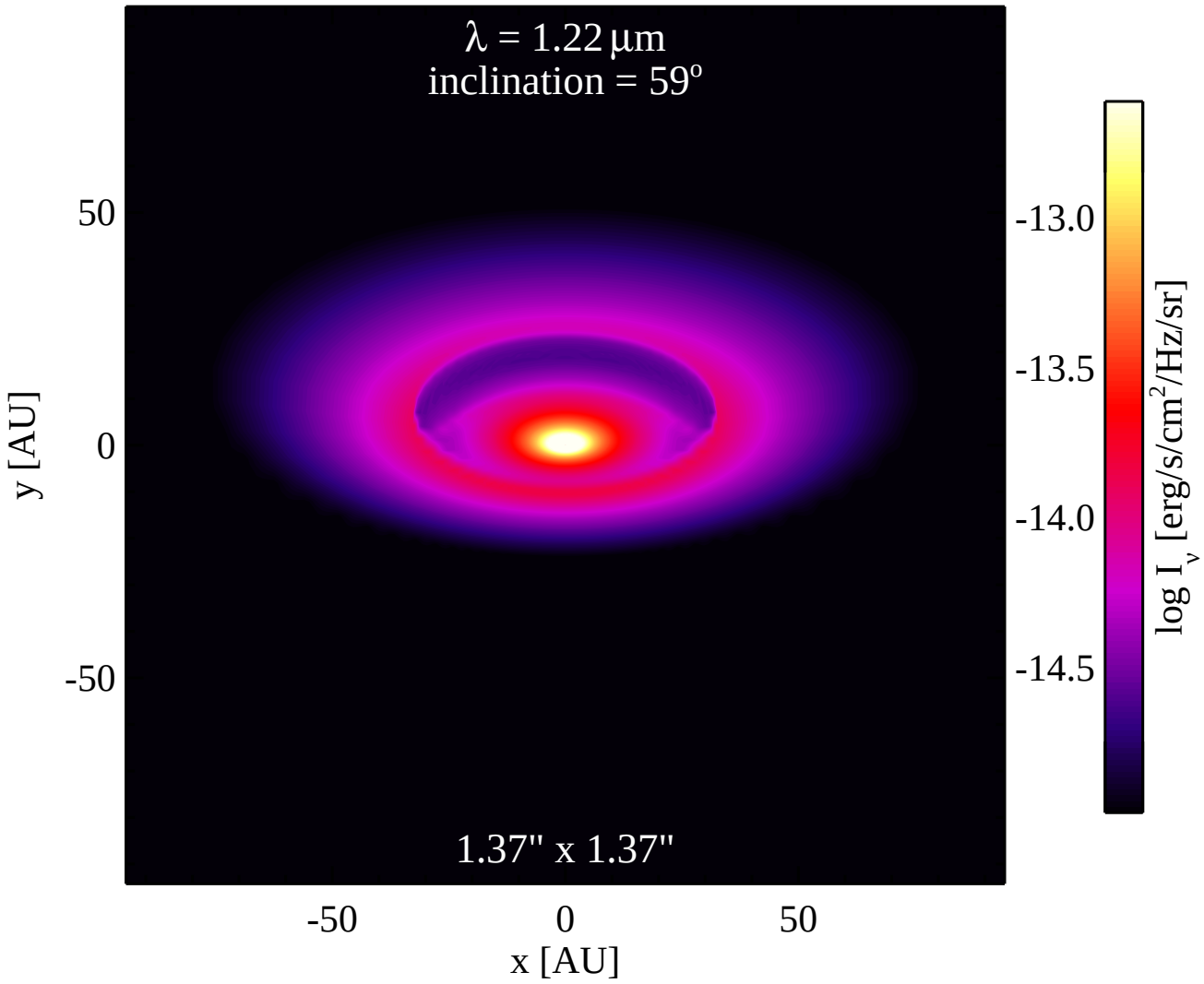

-10
-12
-14
-16
log ν F_ν [erg/cm²/s]
0.1
1.0
10.0
100.0
1000.0
10000.0
λ [μm]
dist = 137.2 pc, incl = 59°
star + UV
disk model
Spitzer IRS
<UV>data

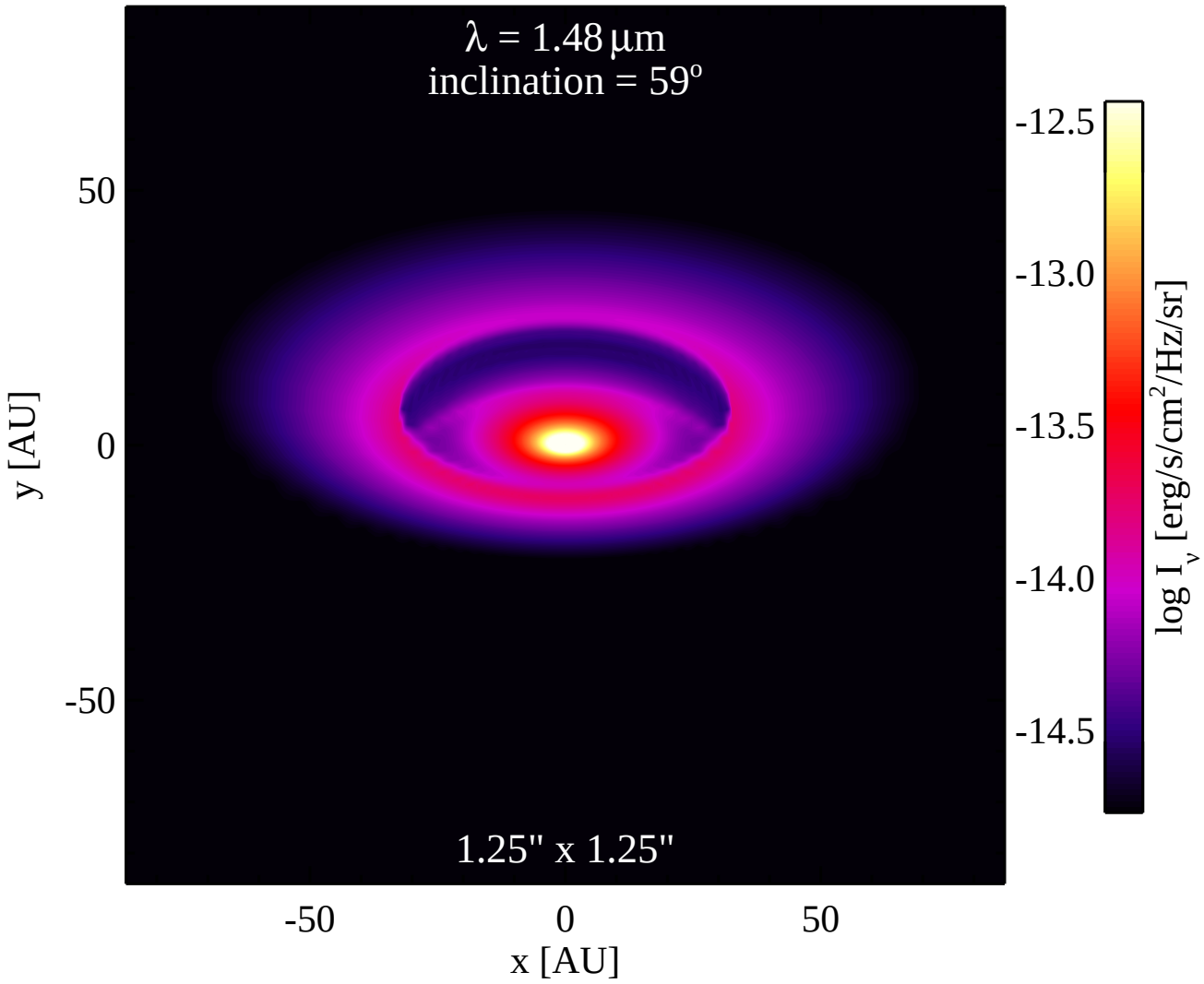

dist = 137.2 pc, incl = 59°
disk model
Spitzer IRS
0.7
0.6
0.5
0.4
0.3
0.2
F_ν [Jy]
4
6
8
10
12
14
λ [μm]

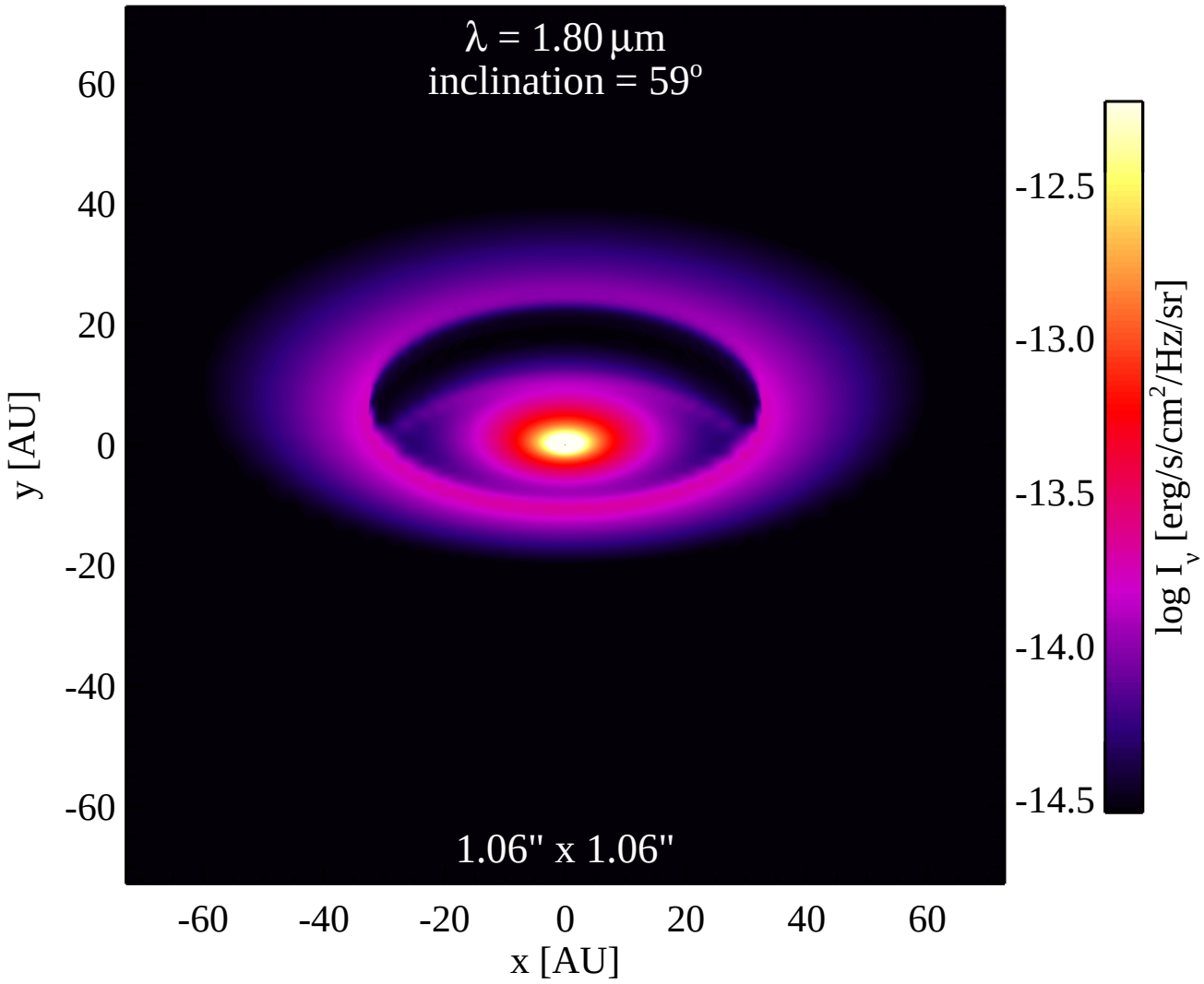

100.0
10.0
1.0
0.1
r [AU]
0.1
1.0
10.0
100.0
1000.0
10000.0
λ [μm]
85%
15%

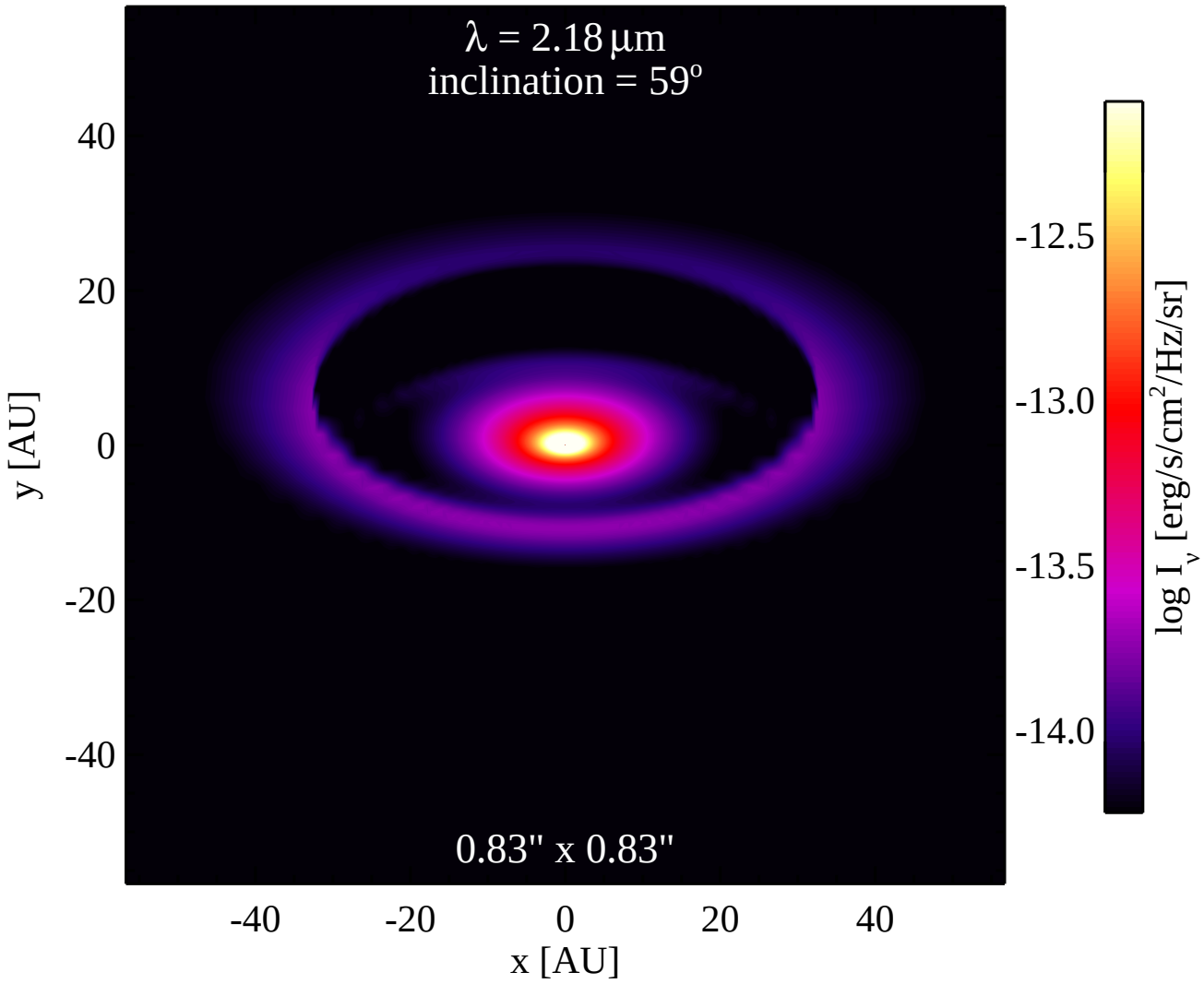

0.4
0.2
0.0
-0.2
-0.4
z/r
1
10
100
r [AU]
1µm
30µm
60µm
100µm
200µm
1000µm
3µm
6µm
10µm
AV=1
AV=1
4
6
8
10
12
log n<H> [cm-3]

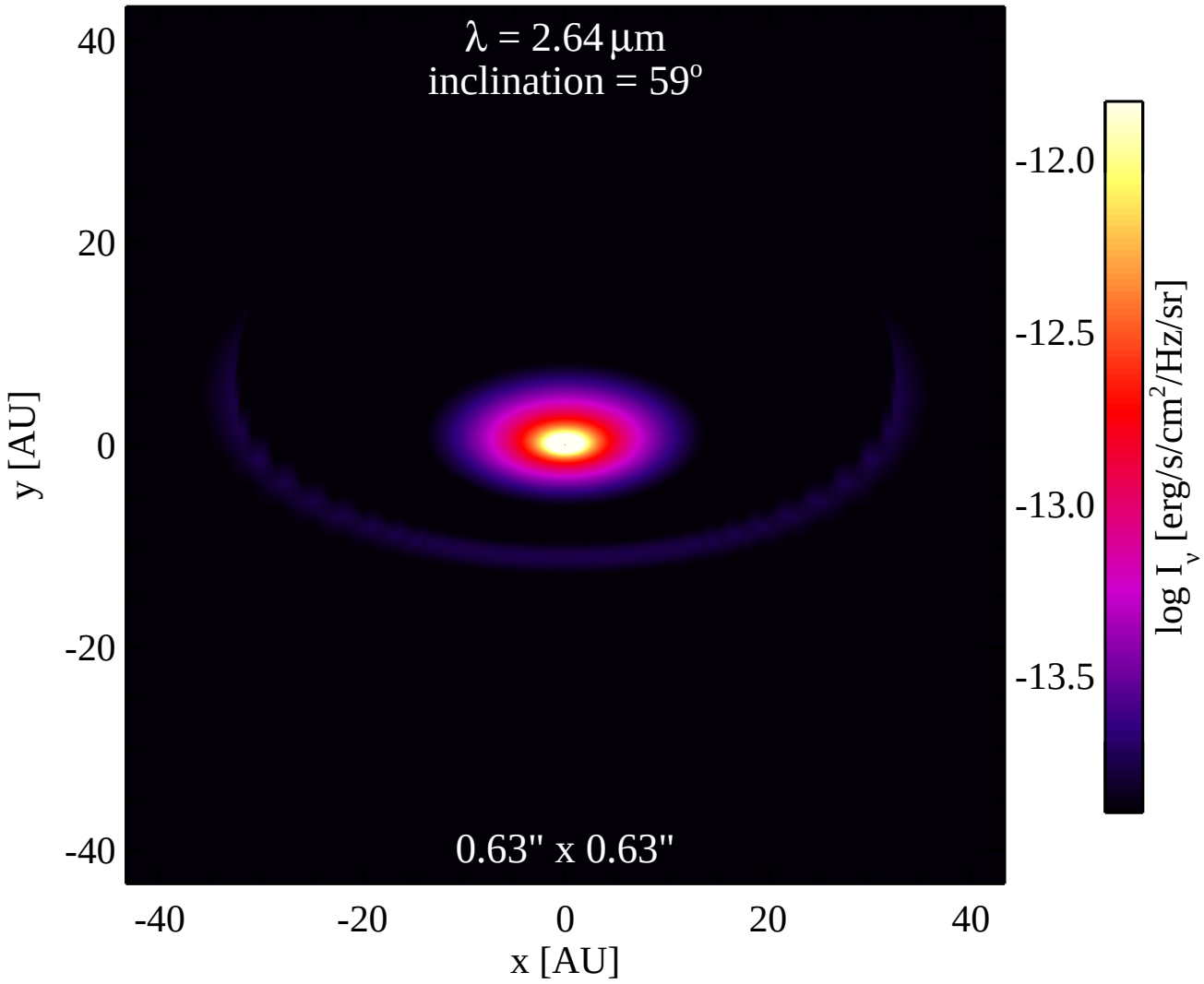

2.0
1.8
1.6
1.4
1.2
1.0
y [AU]
1.0
1.2
1.4
1.6
1.8
2.0
x [AU]
0.8
0.6
0.4
0.2
0.0
log I_ν [erg/s/cm²/Hz/sr]

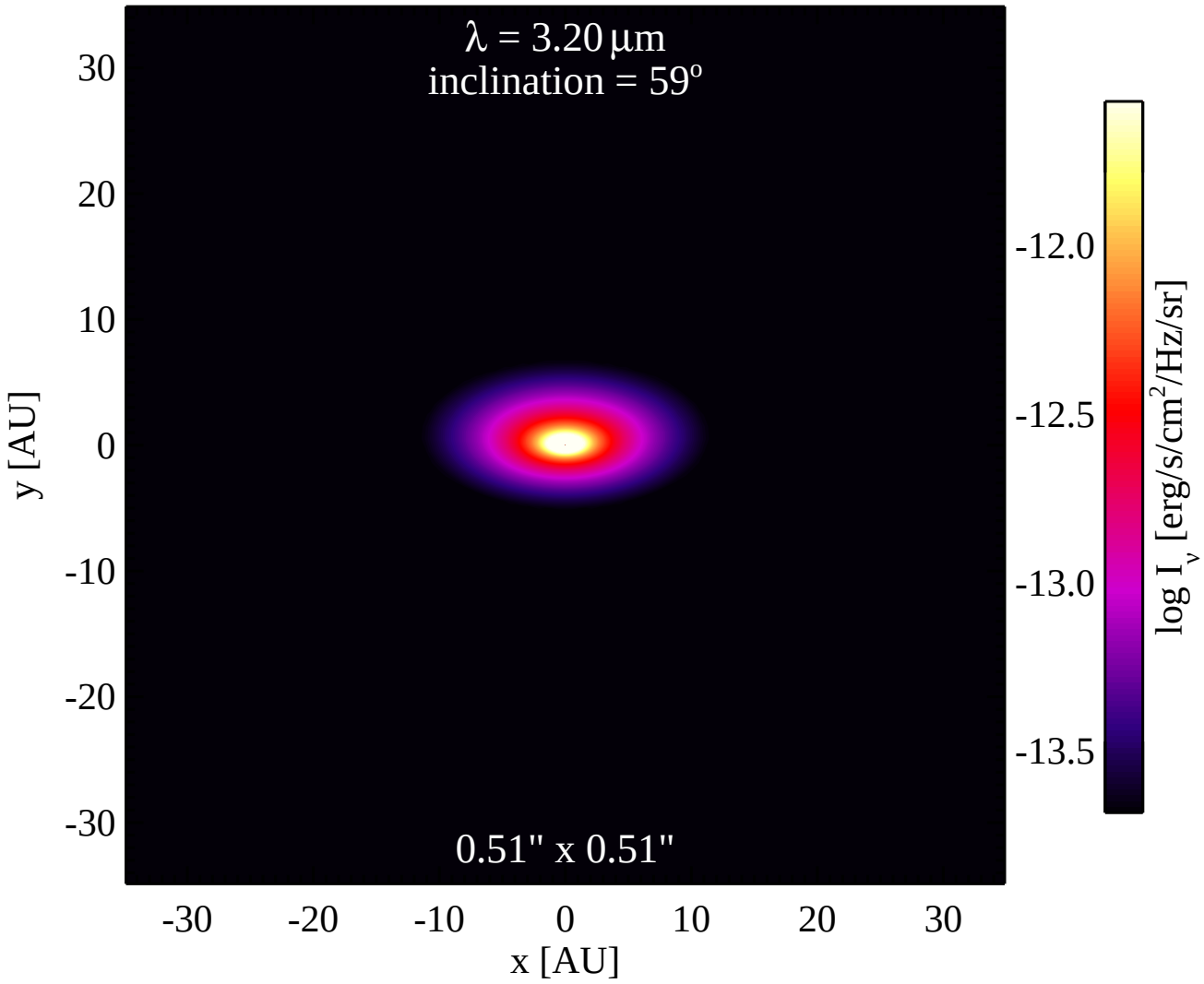

λ = 1.22 μm
inclination = 59°
1.37" x 1.37"
50
0
-50
y [AU]
-50
0
50
x [AU]
-13.0
-13.5
-14.0
-14.5
log I_ν [erg/s/cm²/Hz/sr]

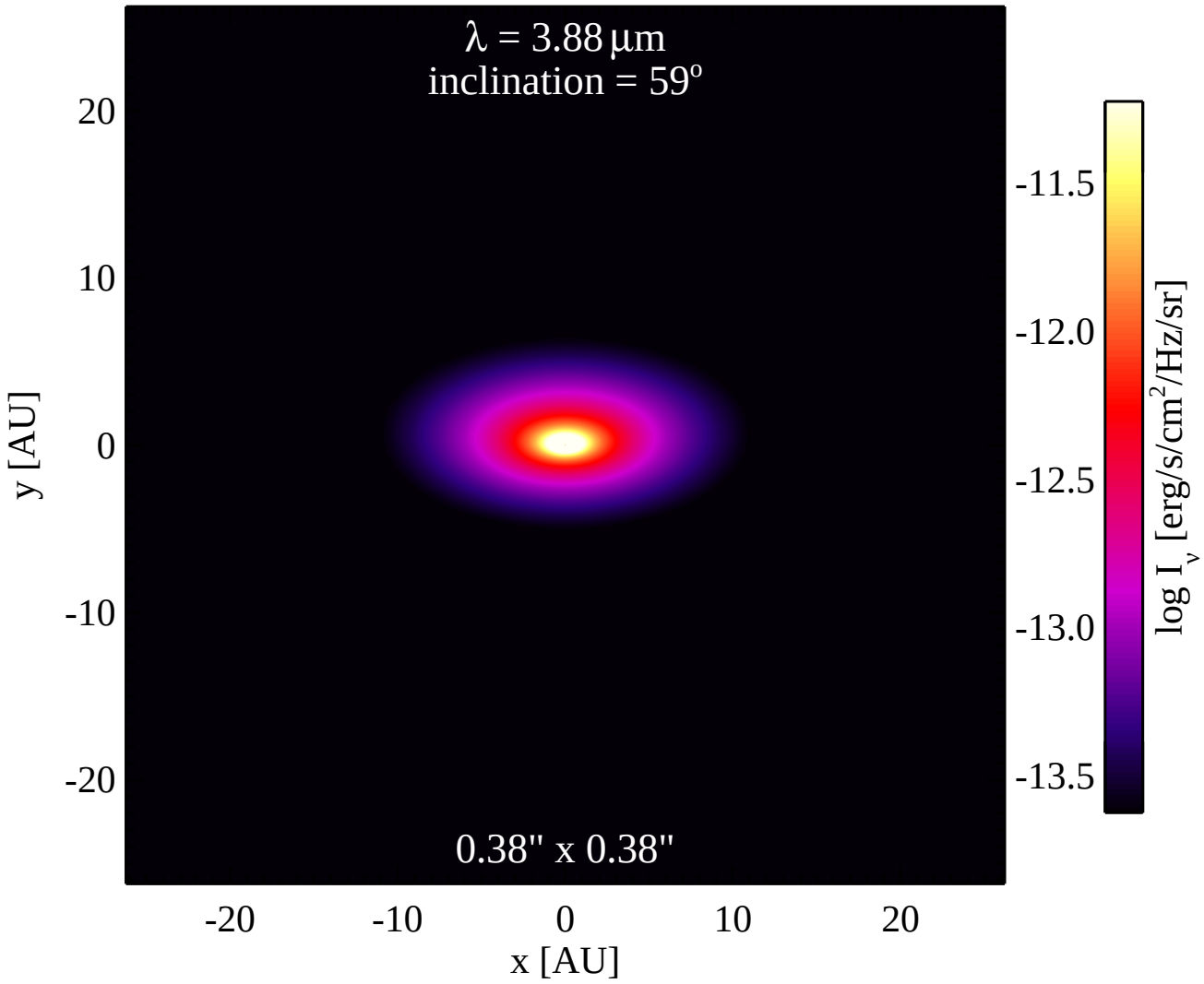

λ = 1.48 μm
inclination = 59°
1.25" x 1.25"
50
0
-50
y [AU]
-50
0
50
x [AU]
-12.5
-13.0
-13.5
-14.0
-14.5
log I_ν [erg/s/cm²/Hz/sr]

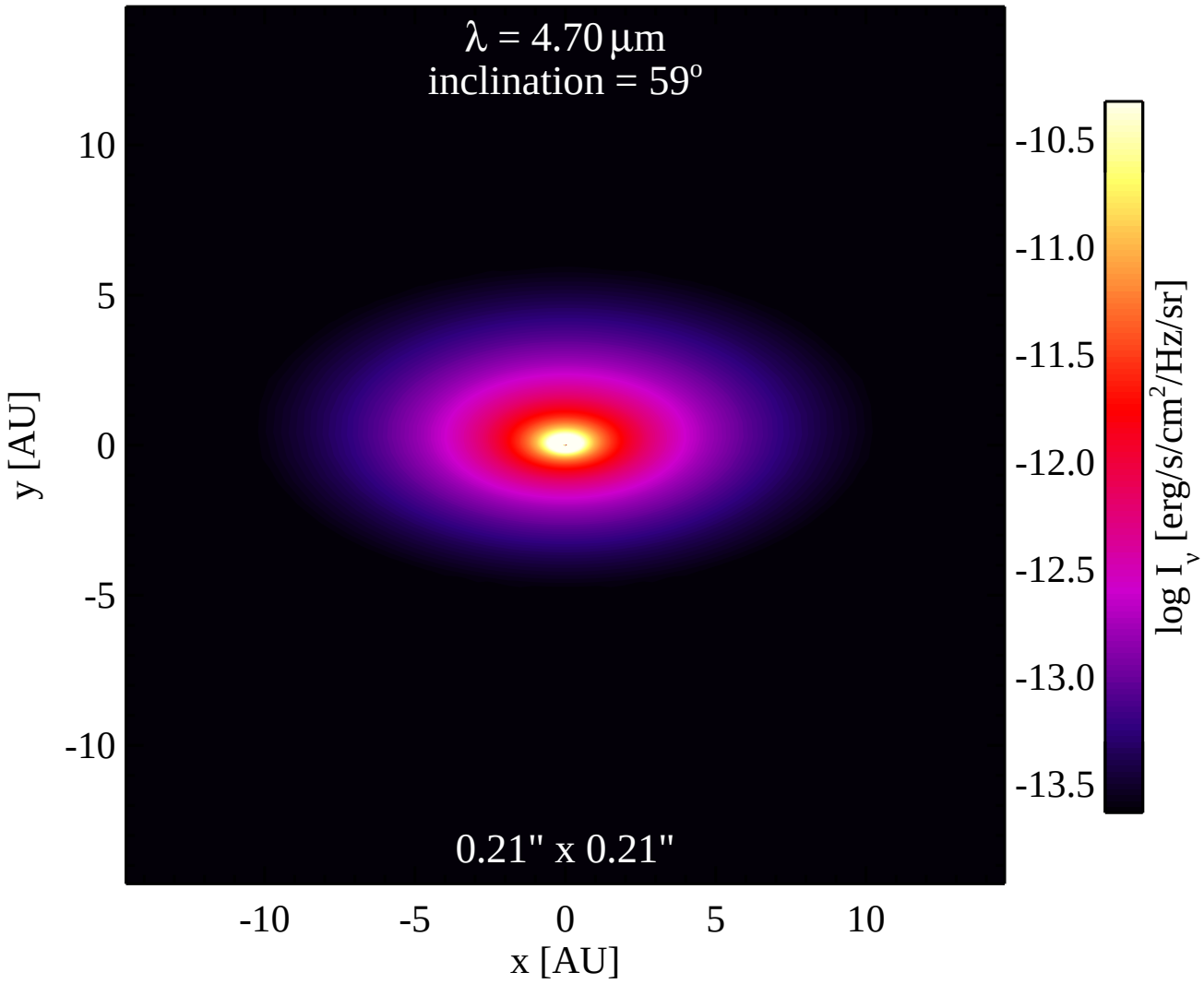

λ = 1.80 μm
inclination = 59°
1.06" x 1.06"
60
40
20
0
-20
-40
-60
y [AU]
-60
-40
-20
0
20
40
60
x [AU]
-12.5
-13.0
-13.5
-14.0
-14.5
log I_ν [erg/s/cm²/Hz/sr]

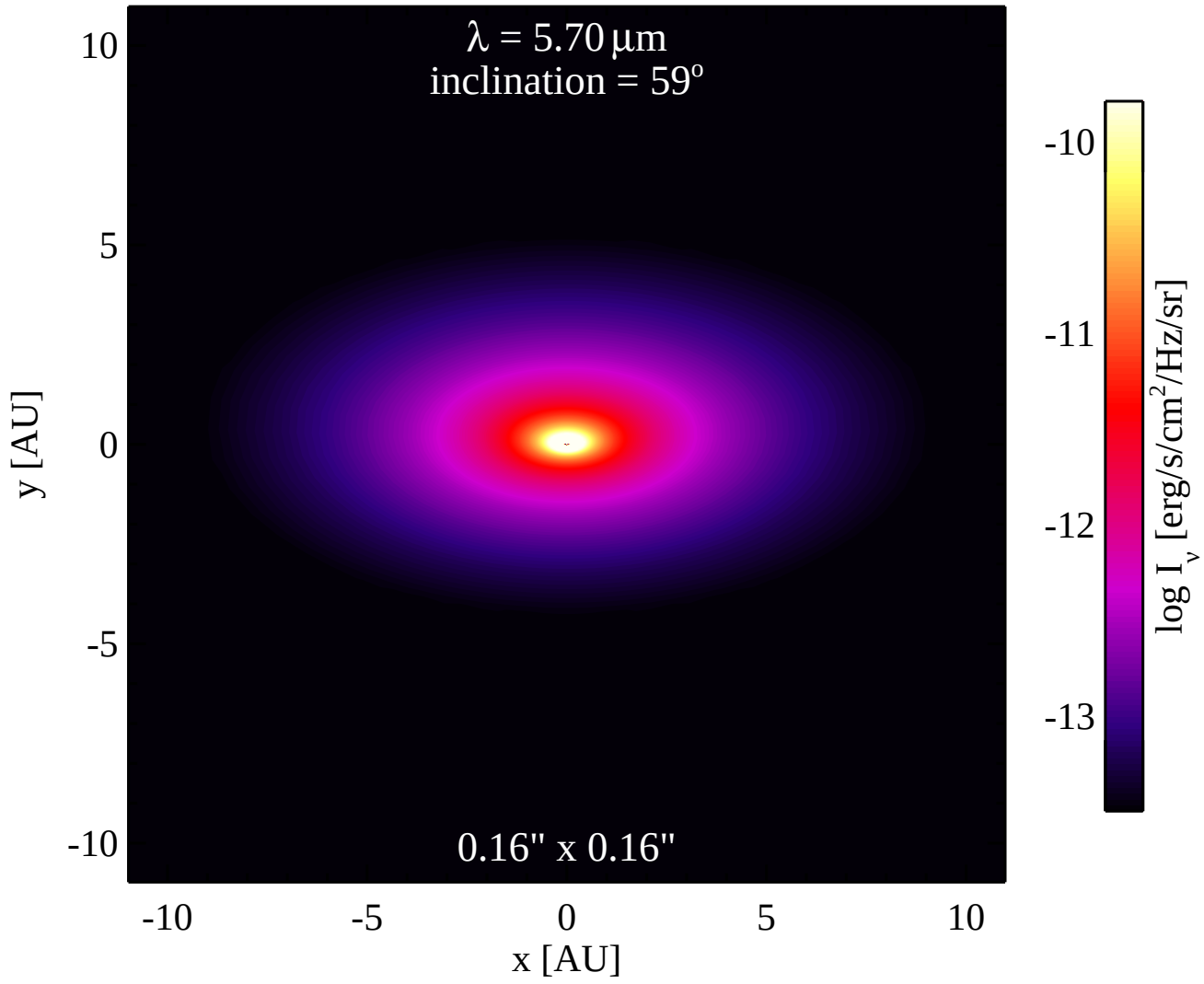

λ = 2.18 μm
inclination = 59°
0.83" x 0.83"
40
20
0
-20
-40
y [AU]
-40
-20
0
20
40
x [AU]
-12.5
-13.0
-13.5
-14.0
log I_ν [erg/s/cm²/Hz/sr]

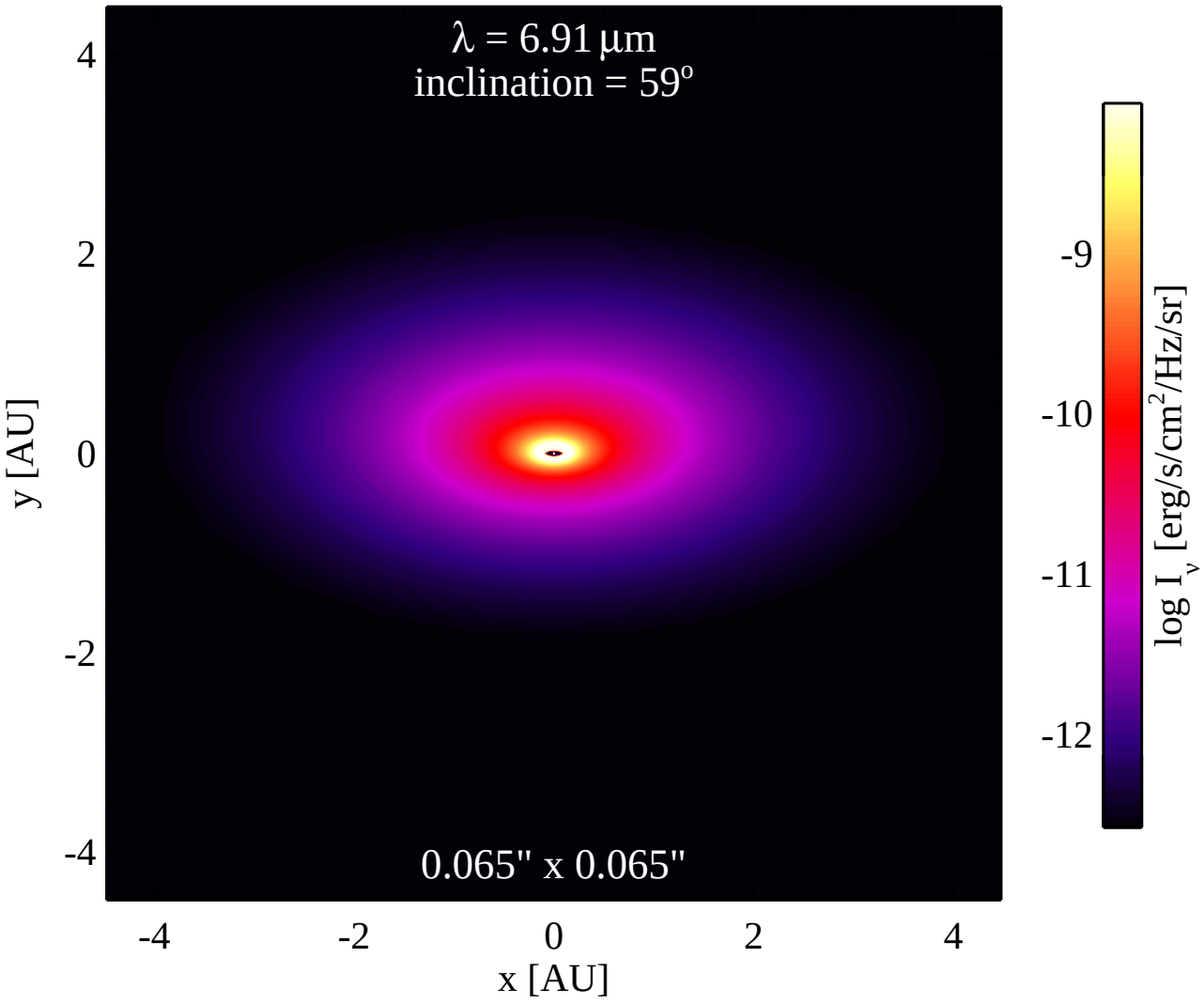

λ = 2.64 μm
inclination = 59°
0.63" x 0.63"
40
20
0
-20
-40
y [AU]
-40
-20
0
20
40
x [AU]
-12.0
-12.5
-13.0
-13.5
log I_ν [erg/s/cm²/Hz/sr]

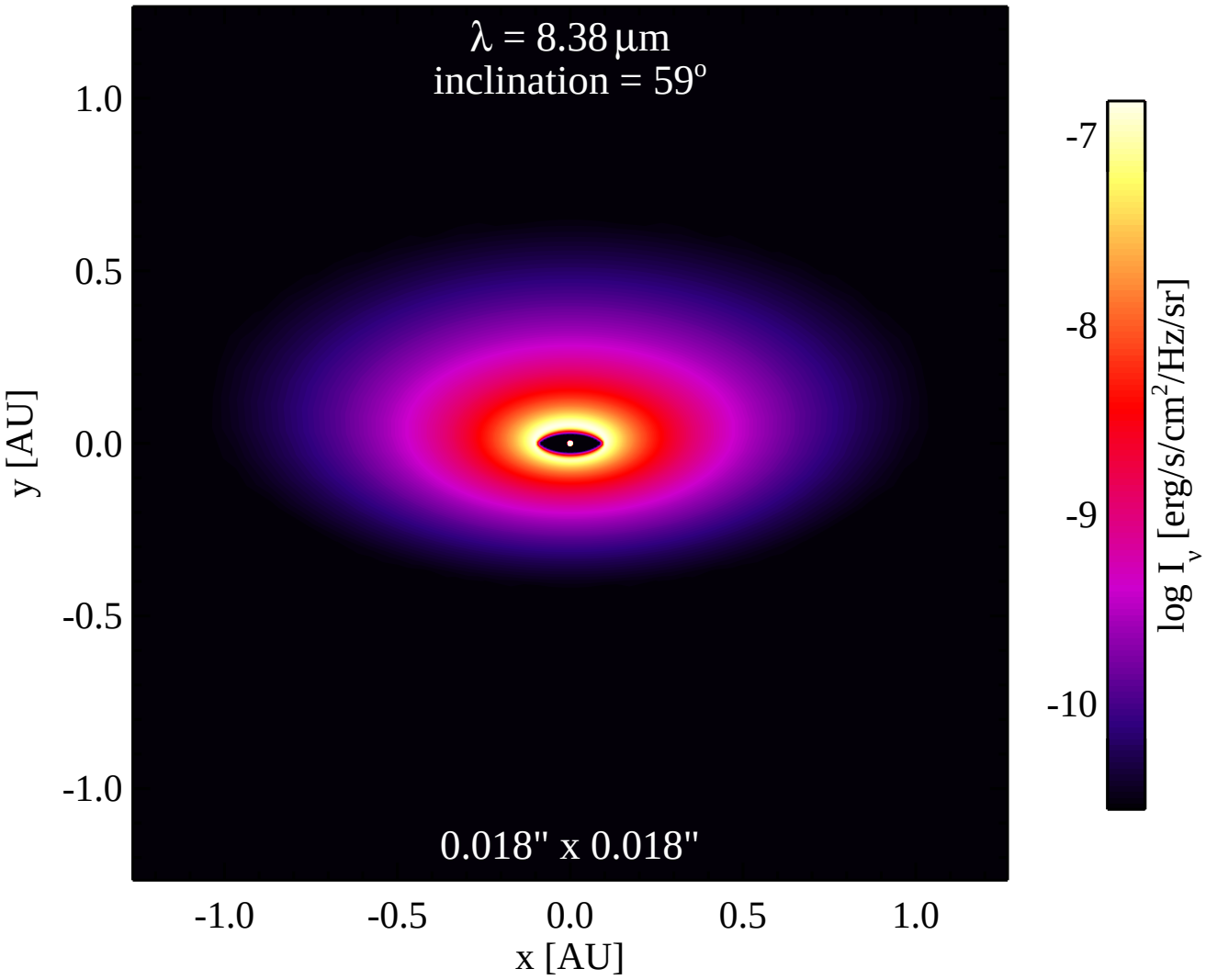

λ = 3.20 μm
inclination = 59°
0.51" x 0.51"
30
20
10
0
-10
-20
-30
y [AU]
-30
-20
-10
0
10
20
30
x [AU]
-12.0
-12.5
-13.0
-13.5
log I_ν [erg/s/cm²/Hz/sr]

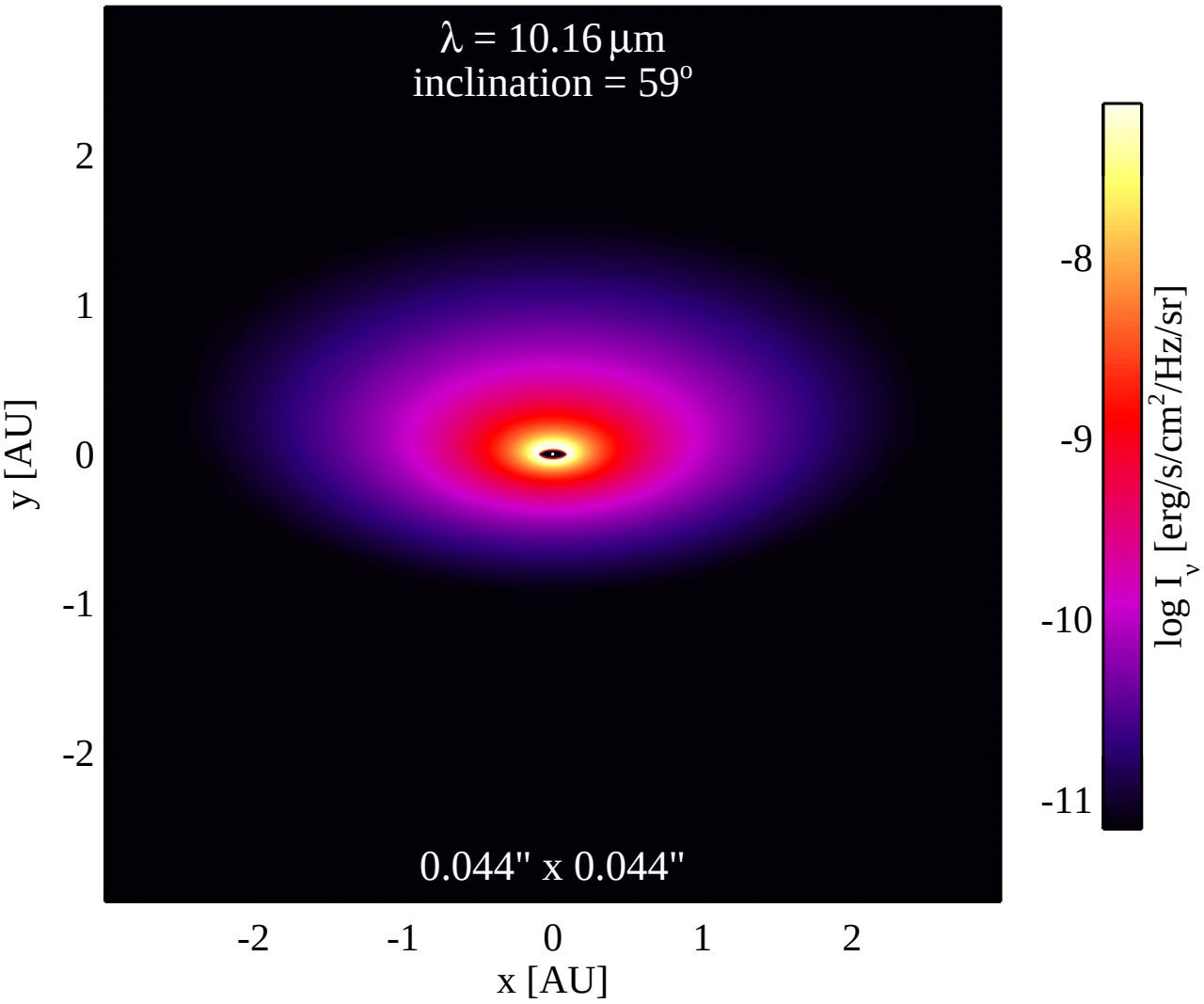

λ = 3.88 μm
inclination = 59°
0.38" x 0.38"
20
10
0
-10
-20
y [AU]
-20
-10
0
10
20
x [AU]
-11.5
-12.0
-12.5
-13.0
-13.5
log I_ν [erg/s/cm²/Hz/sr]

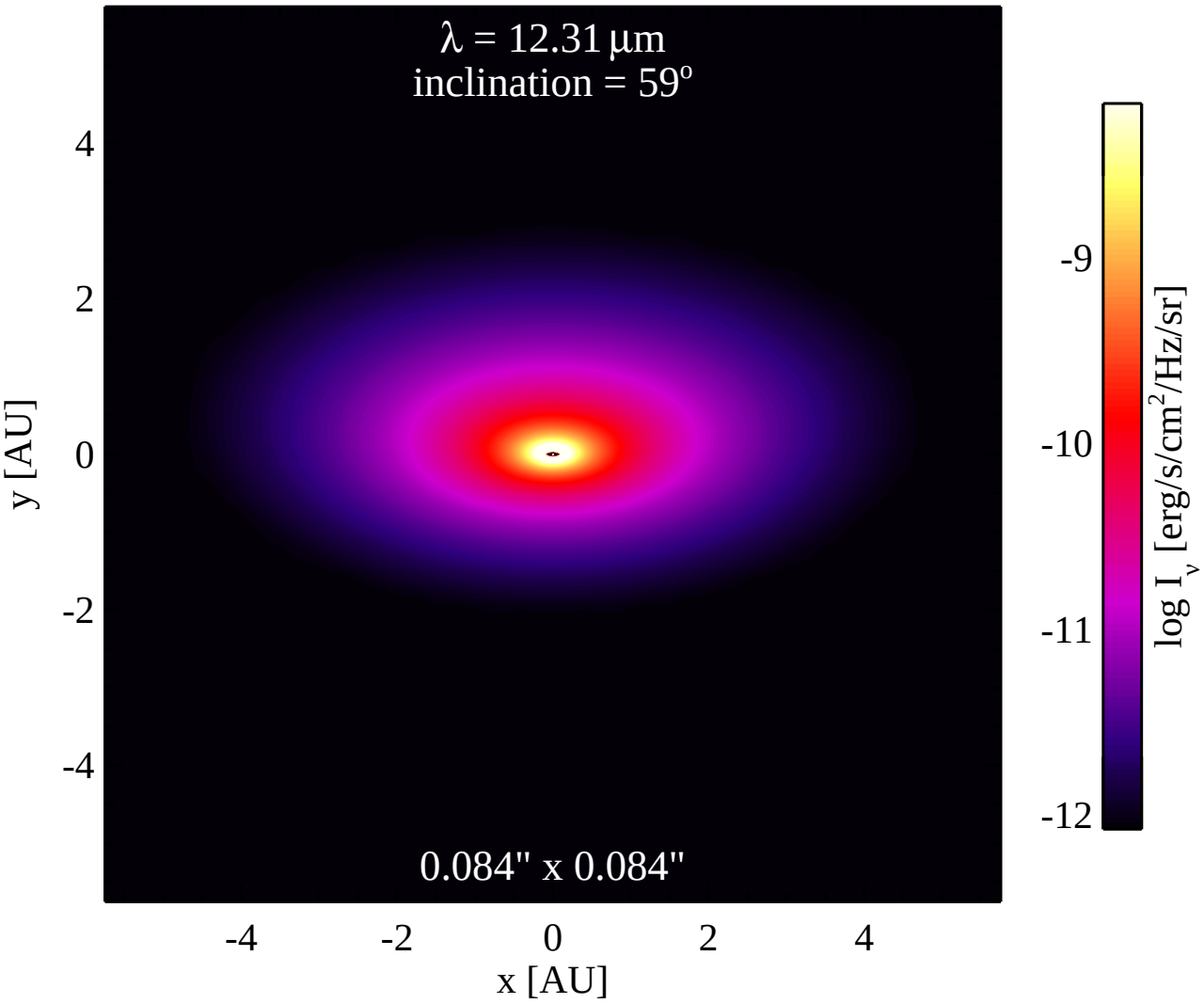

λ = 4.70 μm
inclination = 59°
0.21" x 0.21"
10
5
0
-5
-10
y [AU]
-10
-5
0
5
10
x [AU]
-10.5
-11.0
-11.5
-12.0
-12.5
-13.0
-13.5
log I_ν [erg/s/cm²/Hz/sr]

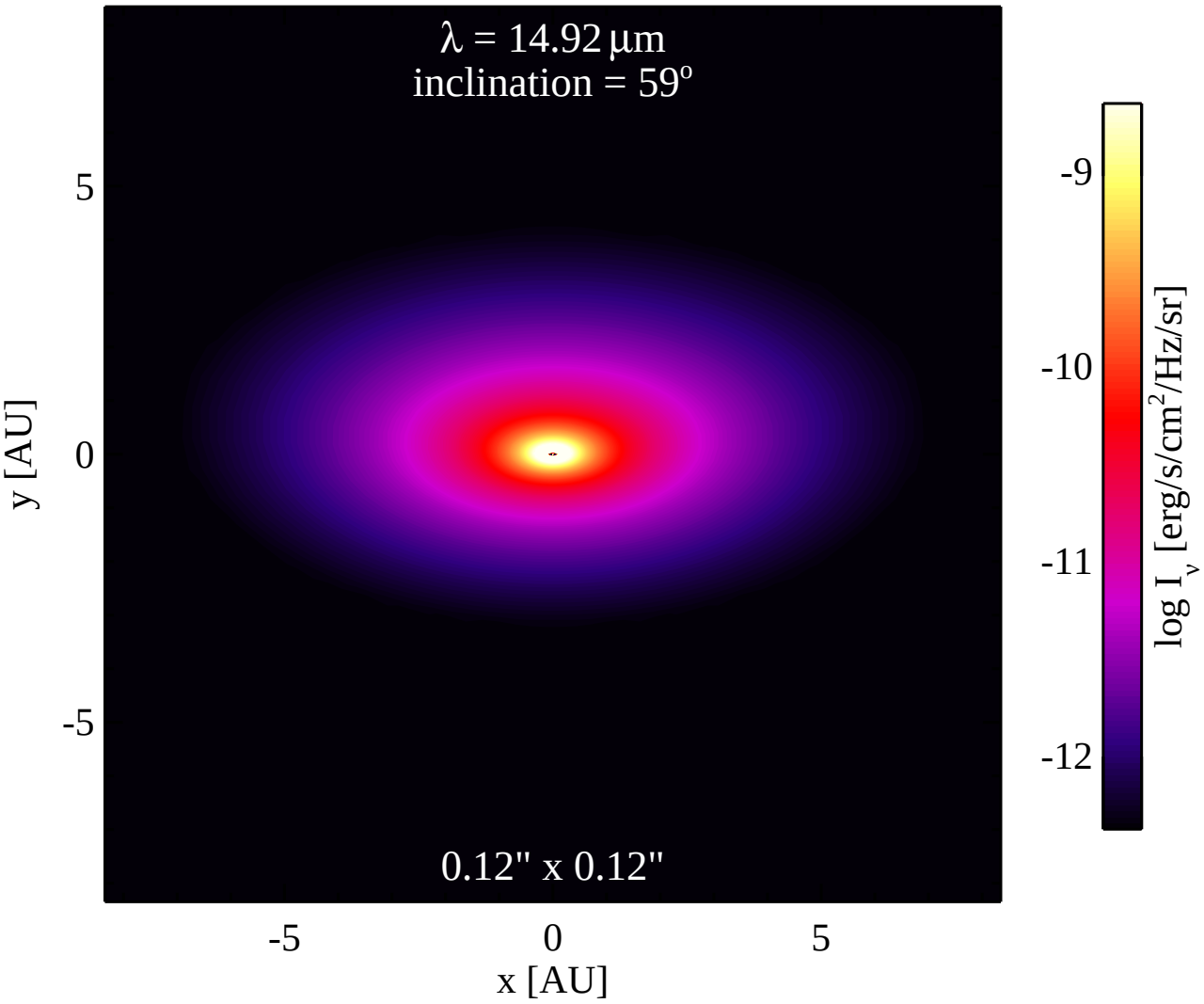

λ = 5.70 μm
inclination = 59°
0.16" x 0.16"
10
5
0
-5
-10
y [AU]
-10
-5
0
5
10
x [AU]
-10
-11
-12
-13
log I_ν [erg/s/cm²/Hz/sr]

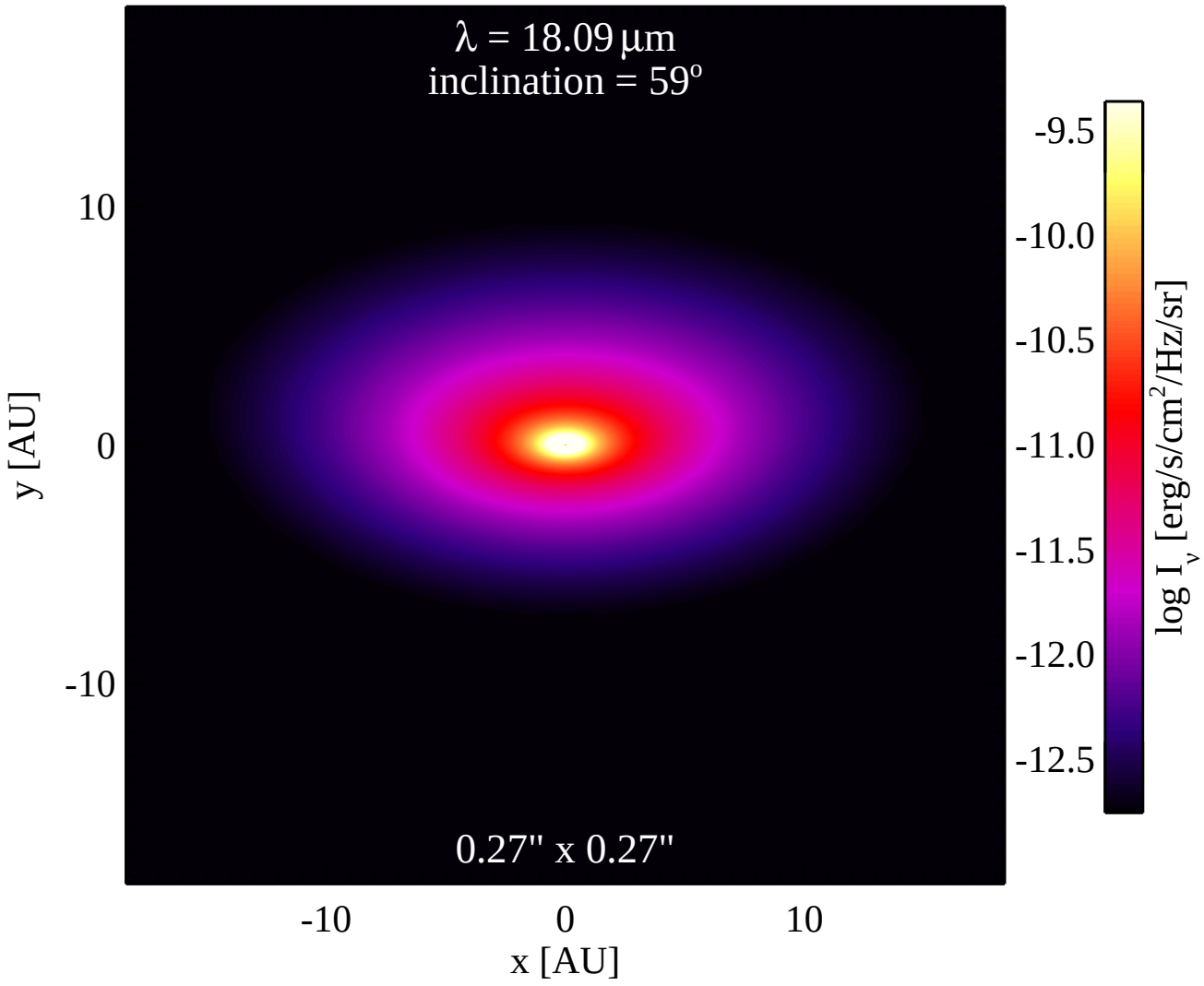

λ = 6.91 μm
inclination = 59°
0.065" x 0.065"
y [AU]
x [AU]
4
2
0
-2
-4
-4
-2
0
2
4
-9
-10
-11
-12
log I_ν [erg/s/cm²/Hz/sr]

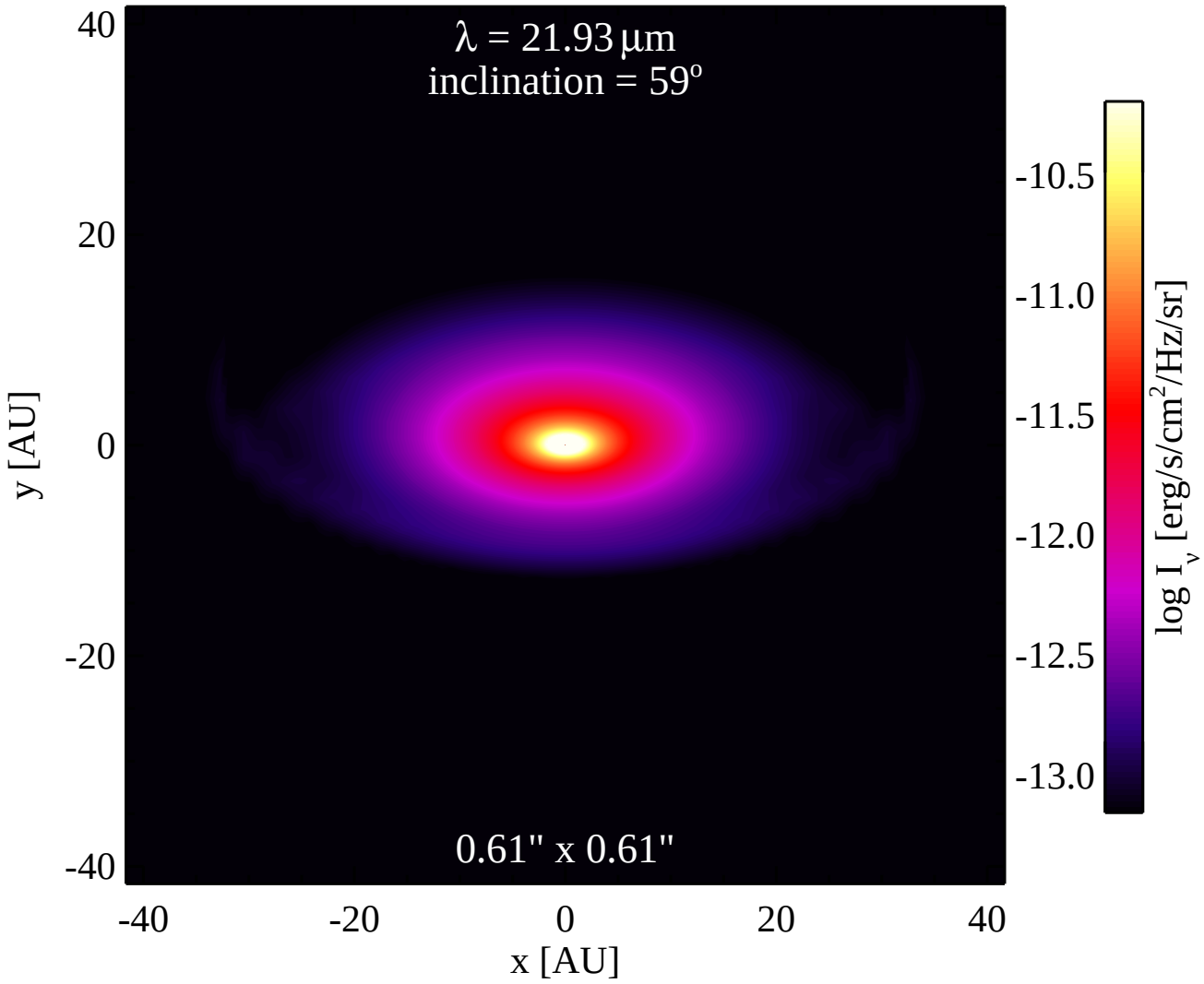

λ = 8.38 μm
inclination = 59°
0.018" x 0.018"
1.0
0.5
0.0
-0.5
-1.0
y [AU]
-1.0
-0.5
0.0
0.5
1.0
x [AU]
-7
-8
-9
-10
log I_ν [erg/s/cm²/Hz/sr]

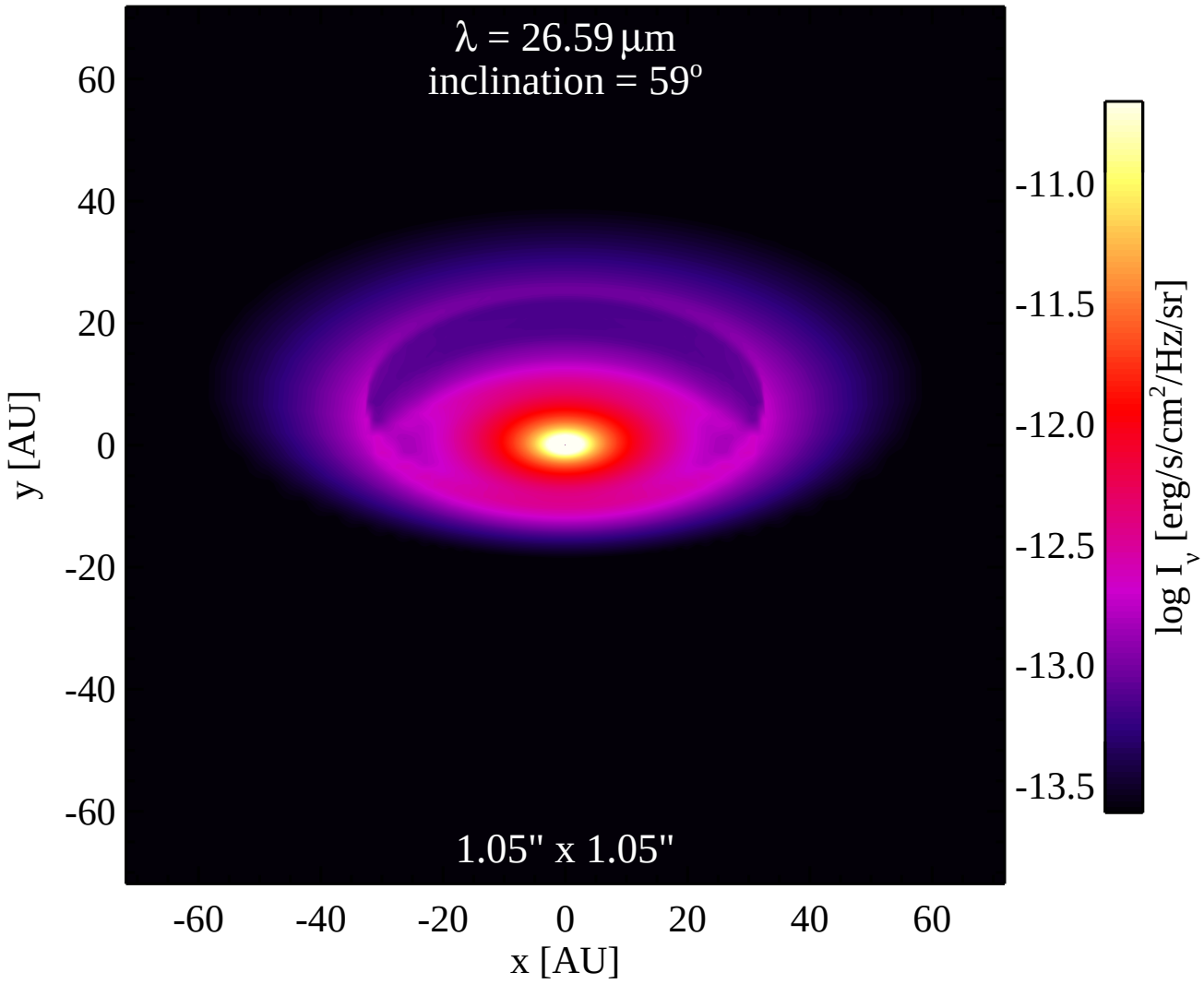

λ = 10.16 μm
inclination = 59°
0.044" x 0.044"
y [AU]
x [AU]
2
1
0
-1
-2
-2
-1
0
1
2
log I_ν [erg/s/cm²/Hz/sr]
-8
-9
-10
-11

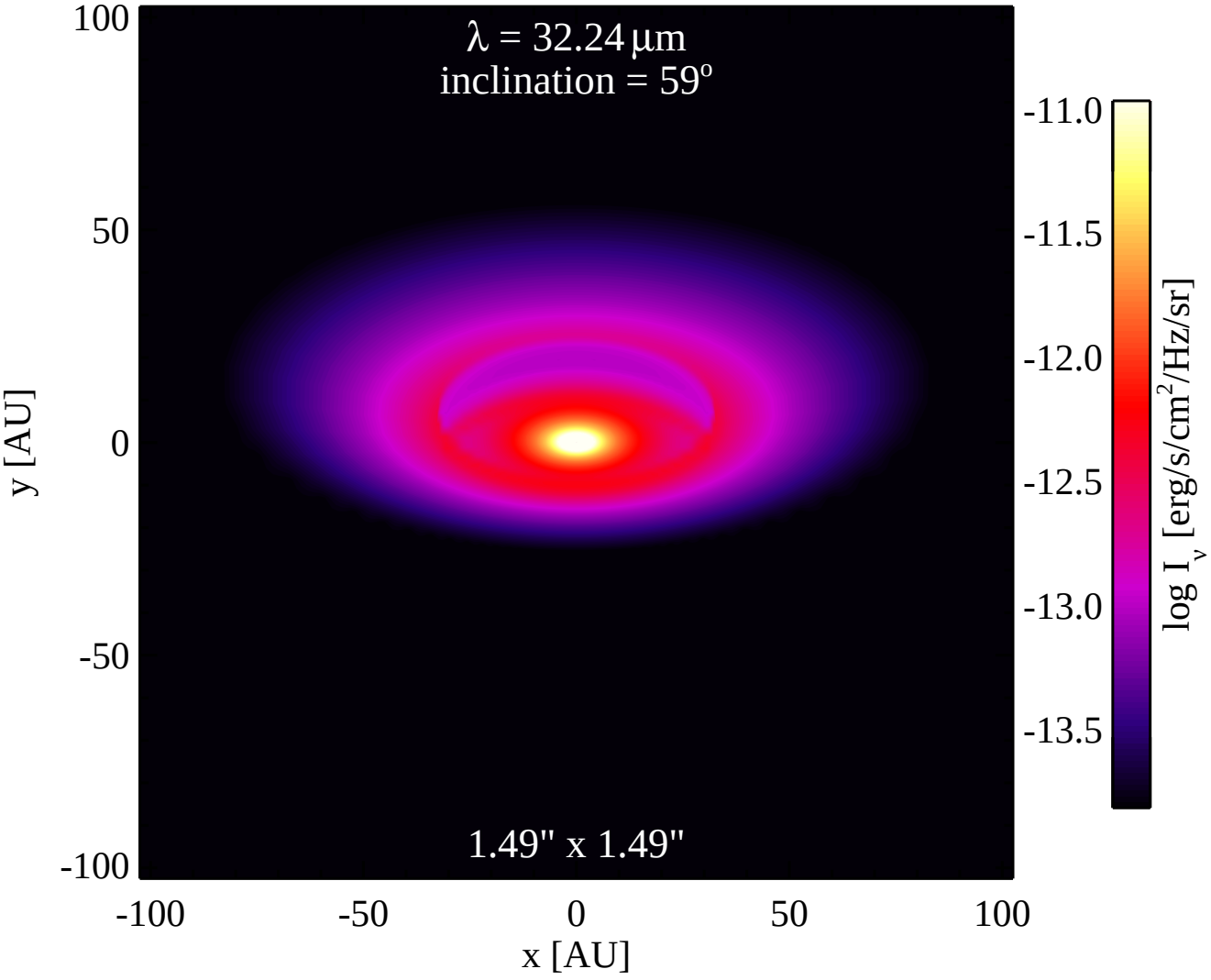

λ = 12.31 μm
inclination = 59°
0.084" x 0.084"
y [AU]
x [AU]
4
2
0
-2
-4
-4
-2
0
2
4
-9
-10
-11
-12
log I_ν [erg/s/cm²/Hz/sr]

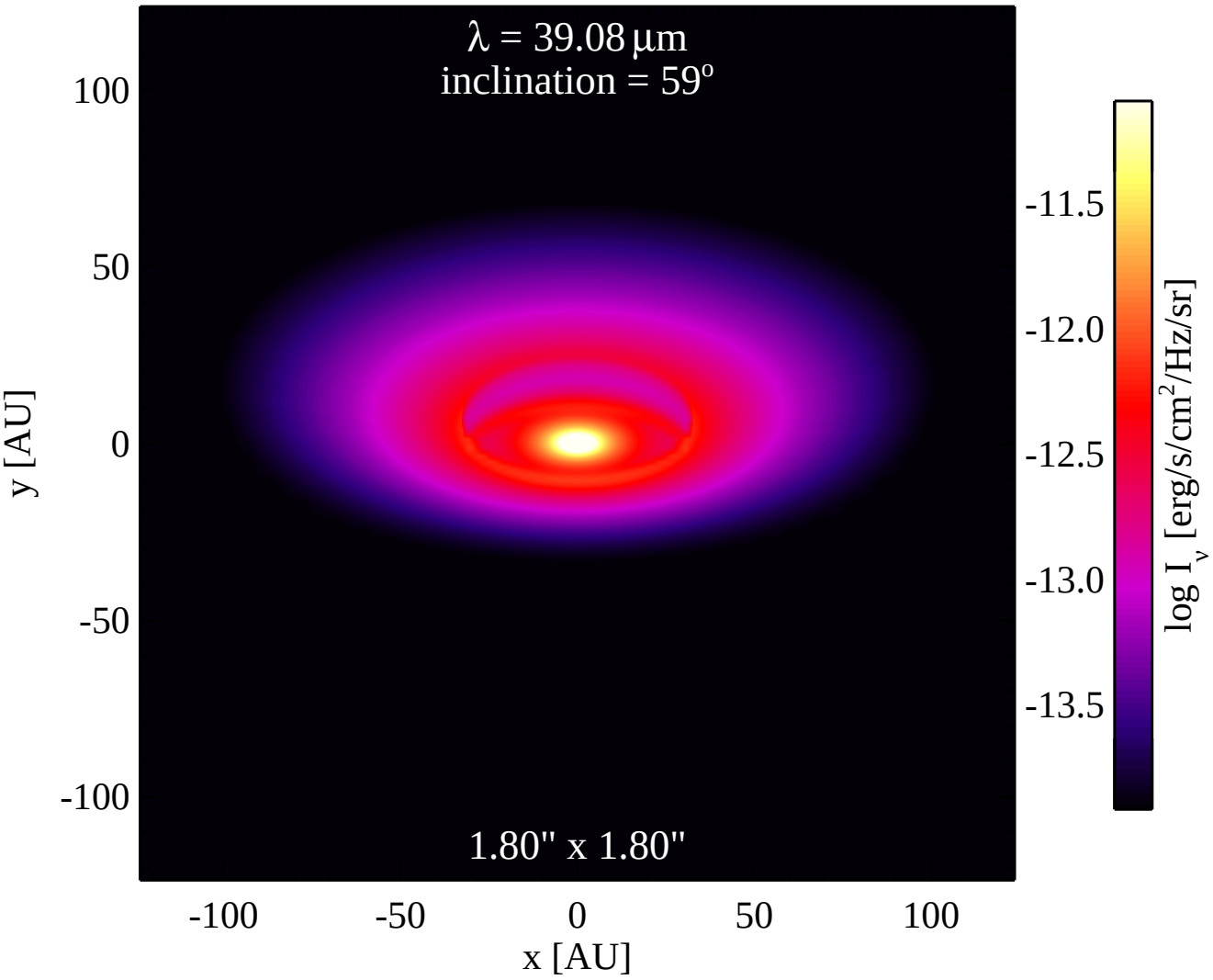

λ = 14.92 μm
inclination = 59°
0.12" x 0.12"
y [AU]
5
0
-5
x [AU]
-5
0
5
log I_ν [erg/s/cm²/Hz/sr]
-9
-10
-11
-12

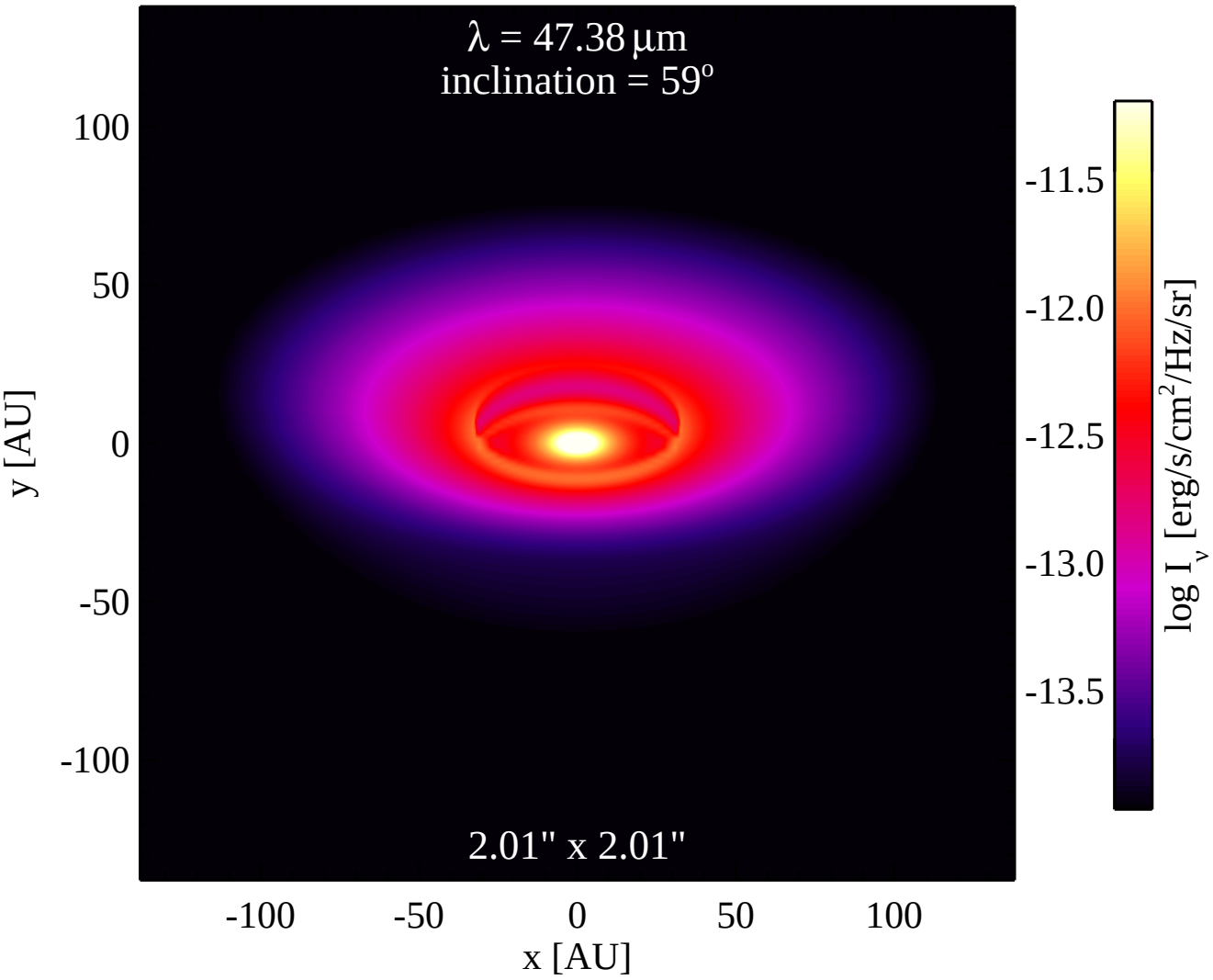

λ = 18.09 μm
inclination = 59°
0.27" x 0.27"
10
0
-10
y [AU]
-10
0
10
x [AU]
-9.5
-10.0
-10.5
-11.0
-11.5
-12.0
-12.5
log I_ν [erg/s/cm²/Hz/sr]

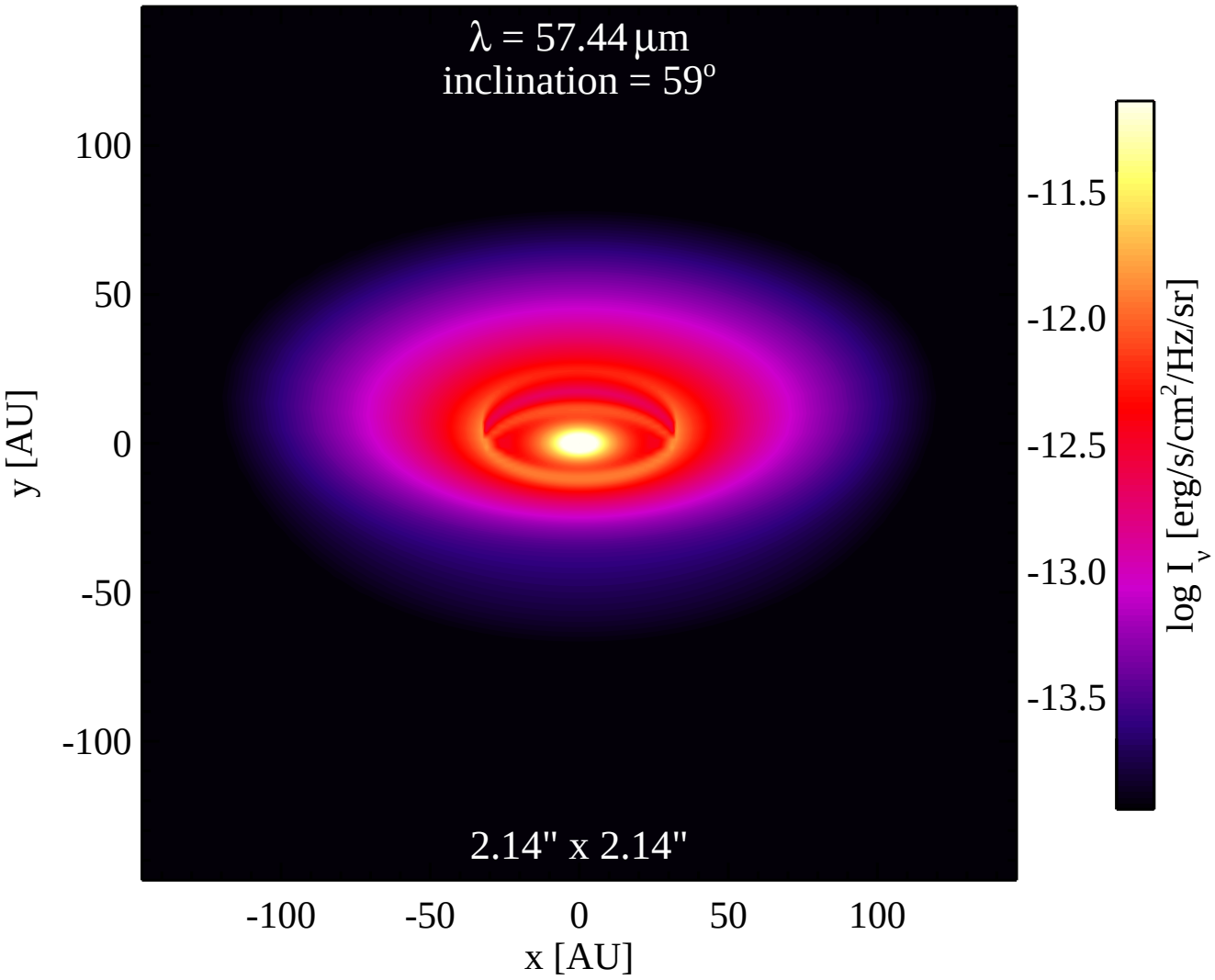

λ = 21.93 μm
inclination = 59°
0.61" x 0.61"
40
20
0
-20
-40
y [AU]
-40
-20
0
20
40
x [AU]
-10.5
-11.0
-11.5
-12.0
-12.5
-13.0
log I_ν [erg/s/cm²/Hz/sr]

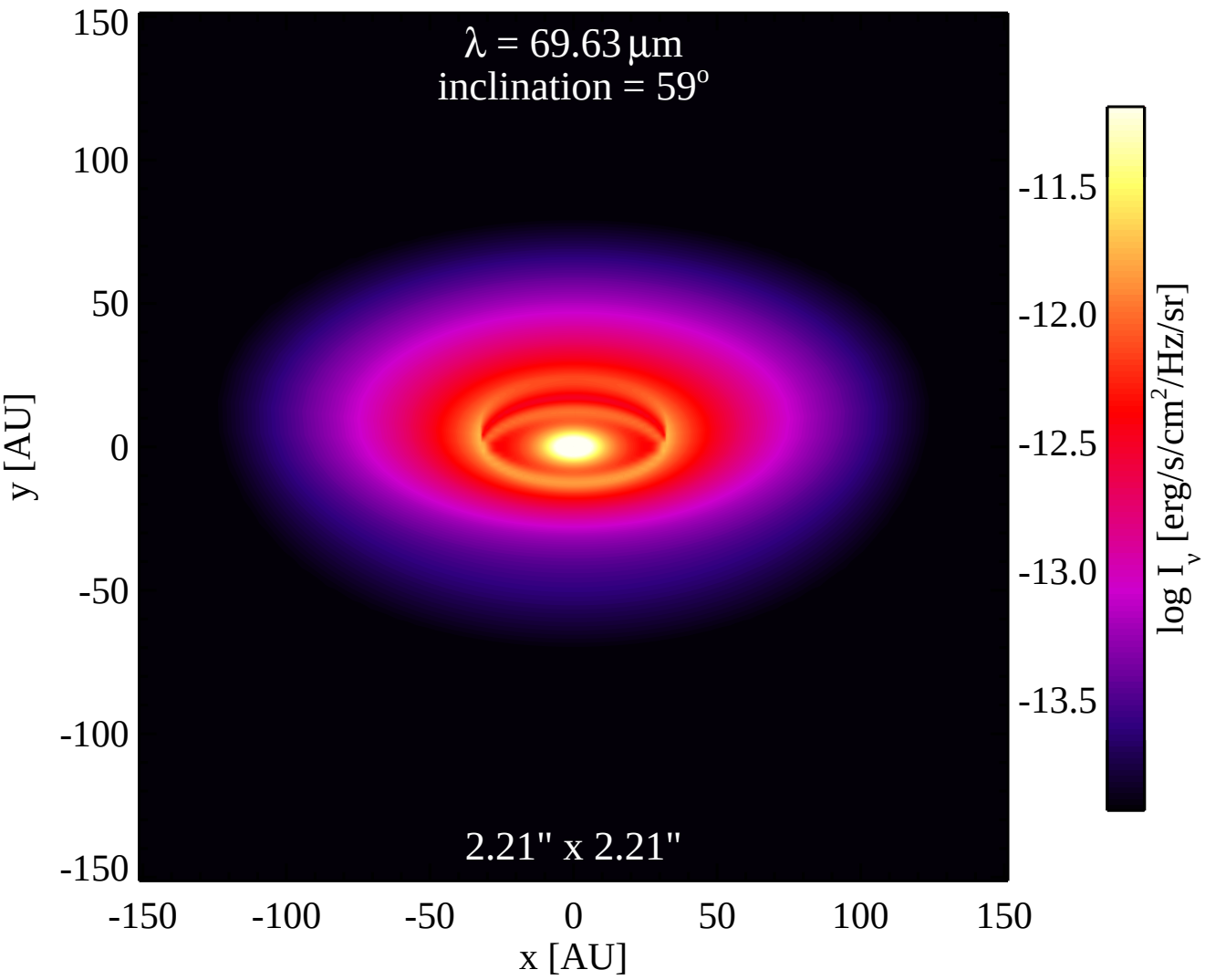

λ = 26.59 μm
inclination = 59°
1.05" x 1.05"
60
40
20
0
-20
-40
-60
y [AU]
-60
-40
-20
0
20
40
60
x [AU]
-11.0
-11.5
-12.0
-12.5
-13.0
-13.5
log I_ν [erg/s/cm²/Hz/sr]

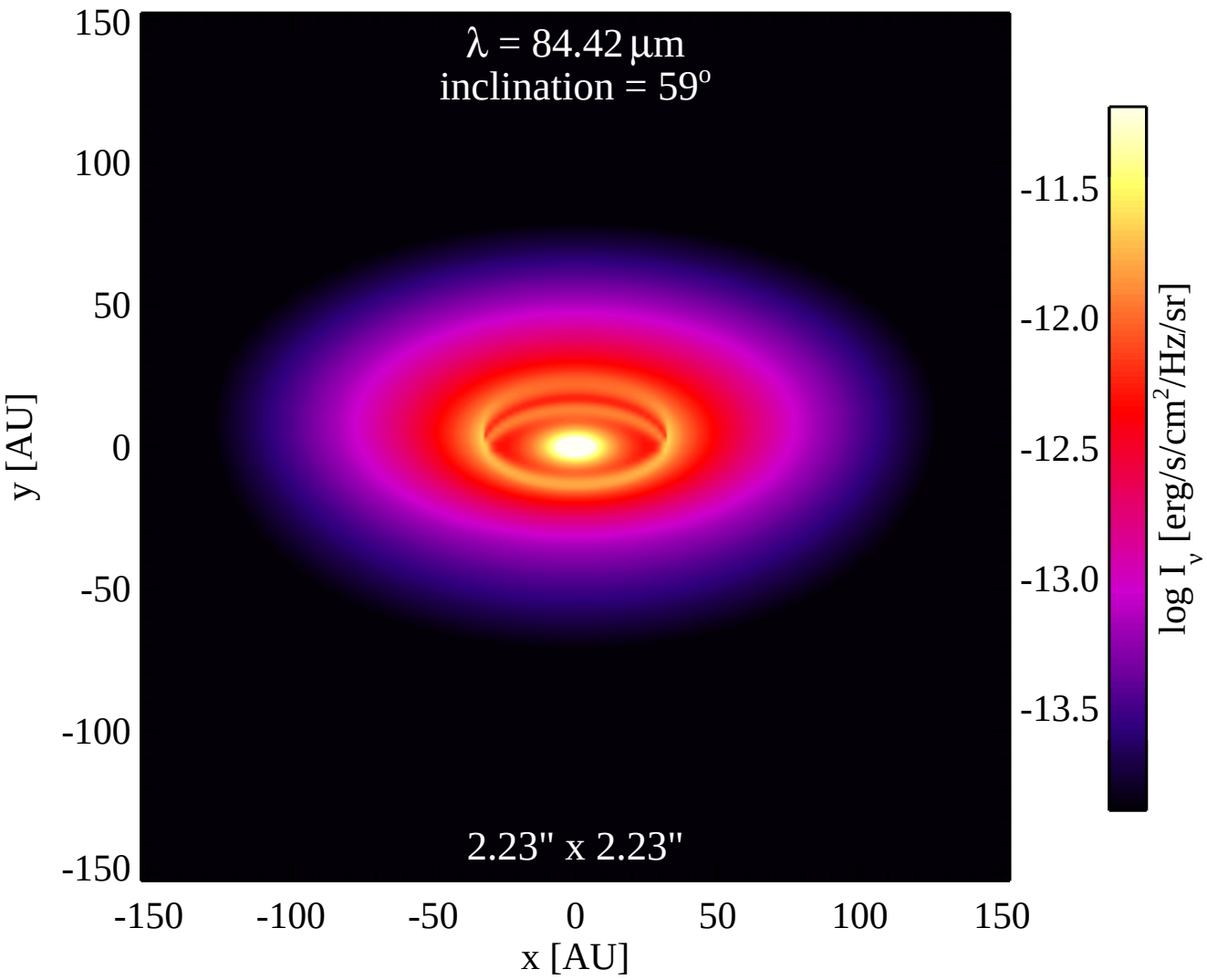

λ = 32.24 μm
inclination = 59°
1.49" x 1.49"
100
50
0
-50
-100
y [AU]
-100
-50
0
50
100
x [AU]
-11.0
-11.5
-12.0
-12.5
-13.0
-13.5
log I_ν [erg/s/cm²/Hz/sr]

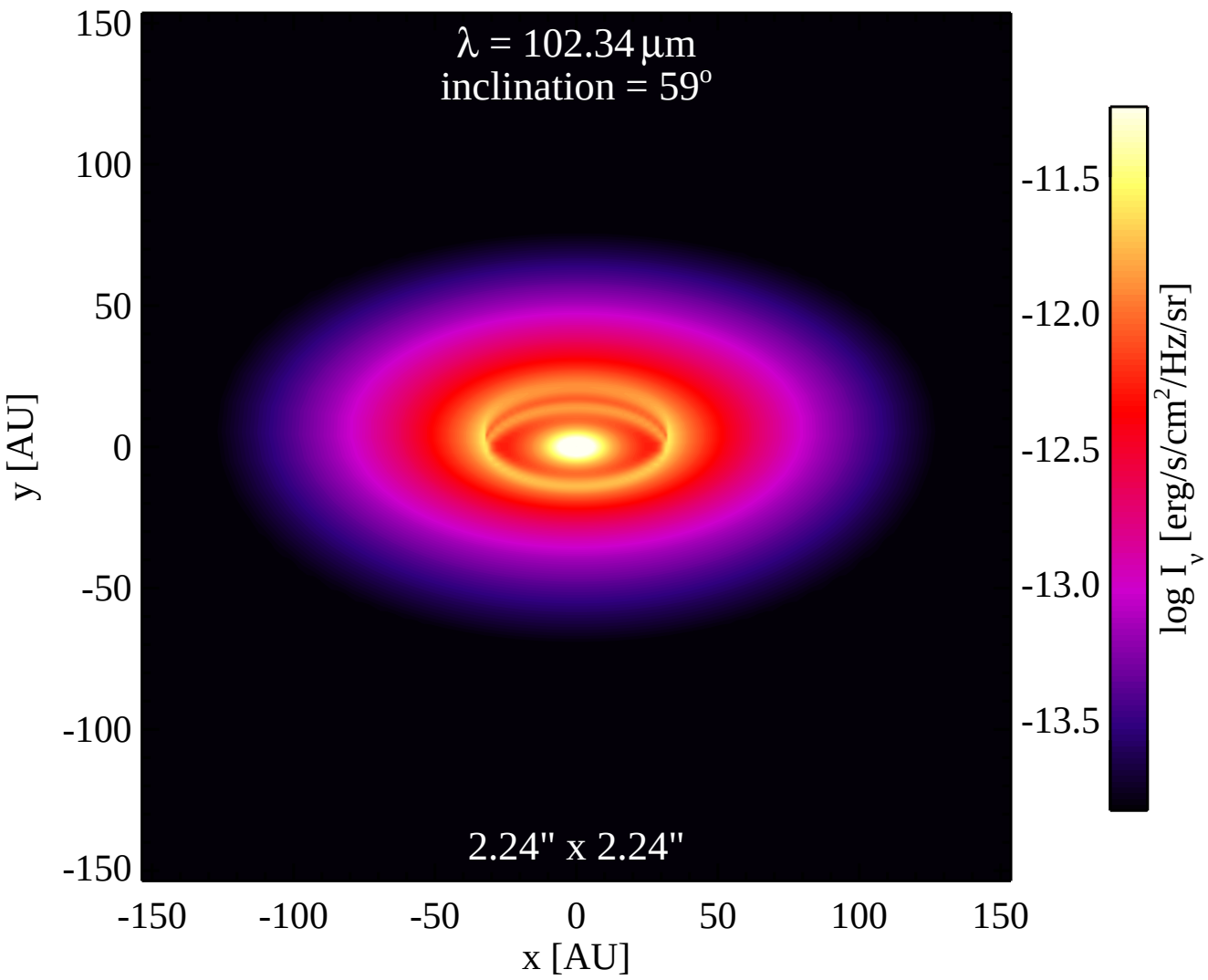

λ = 39.08 μm
inclination = 59°
1.80" x 1.80"
100
50
0
-50
-100
y [AU]
-100
-50
0
50
100
x [AU]
-11.5
-12.0
-12.5
-13.0
-13.5
log I_ν [erg/s/cm²/Hz/sr]

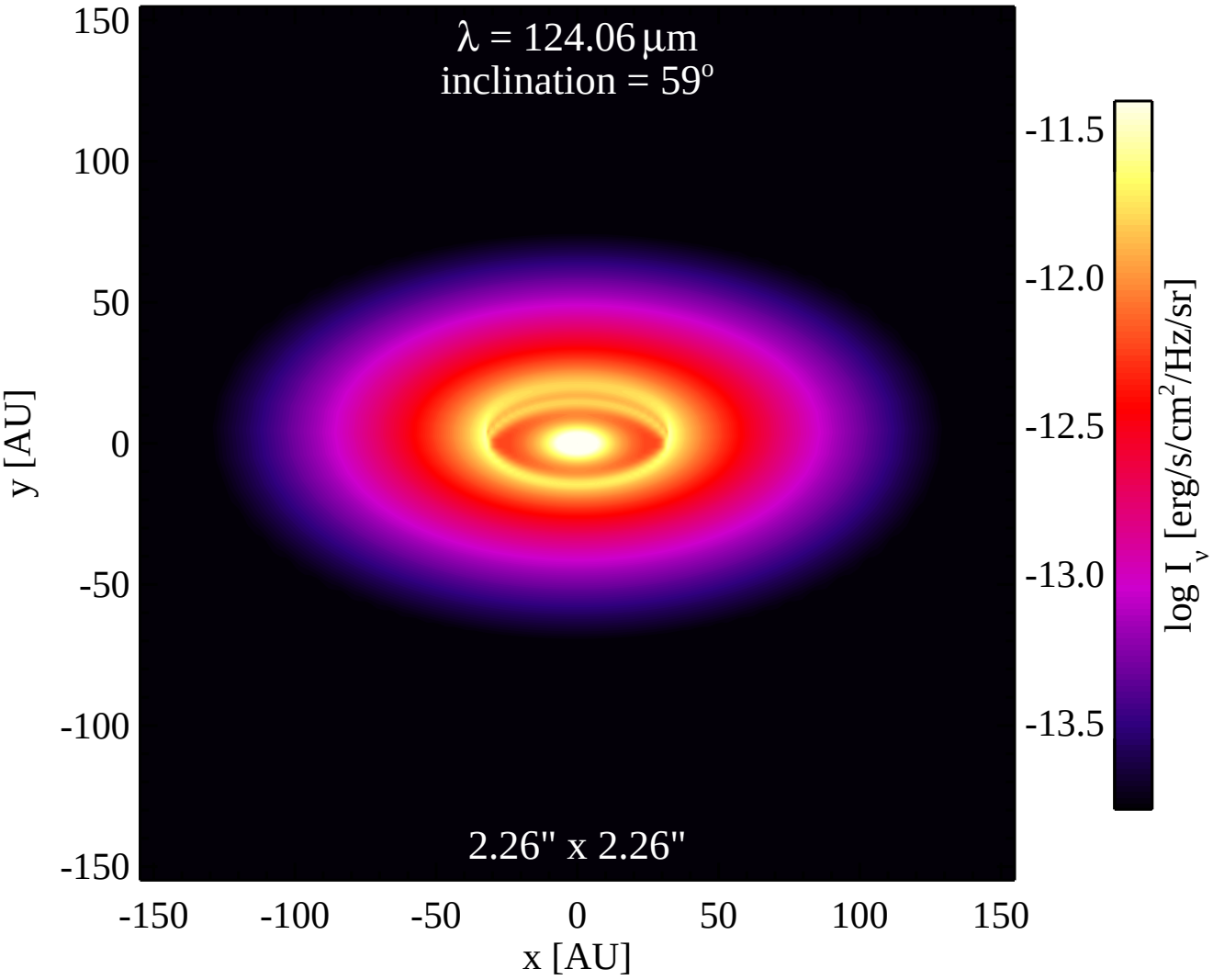

λ = 47.38 μm
inclination = 59°
2.01" x 2.01"
100
50
0
-50
-100
y [AU]
-100
-50
0
50
100
x [AU]
-11.5
-12.0
-12.5
-13.0
-13.5
log I_ν [erg/s/cm²/Hz/sr]

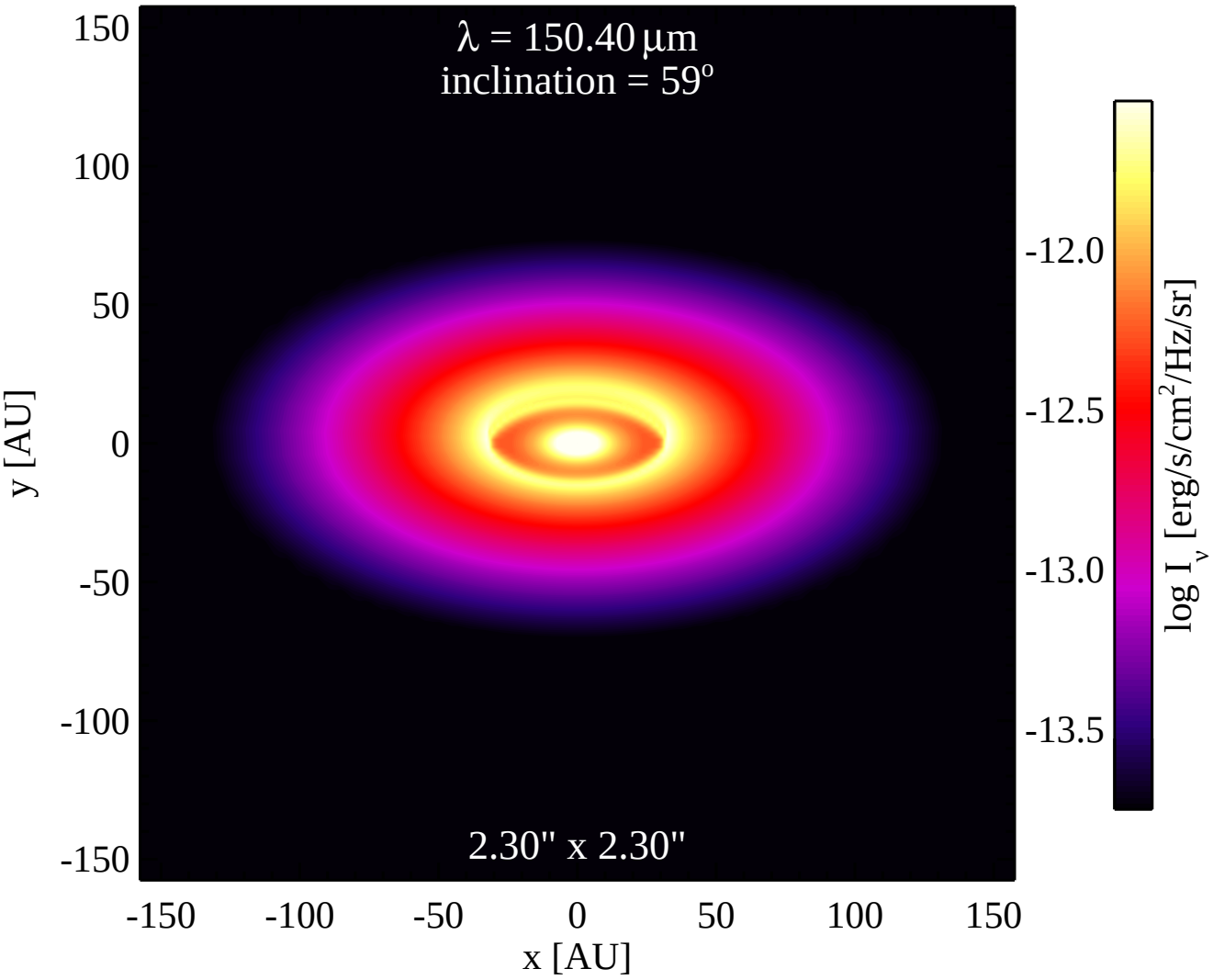

λ = 57.44 μm
inclination = 59°
2.14" x 2.14"
100
50
0
-50
-100
y [AU]
-100
-50
0
50
100
x [AU]
-11.5
-12.0
-12.5
-13.0
-13.5
log I_ν [erg/s/cm²/Hz/sr]

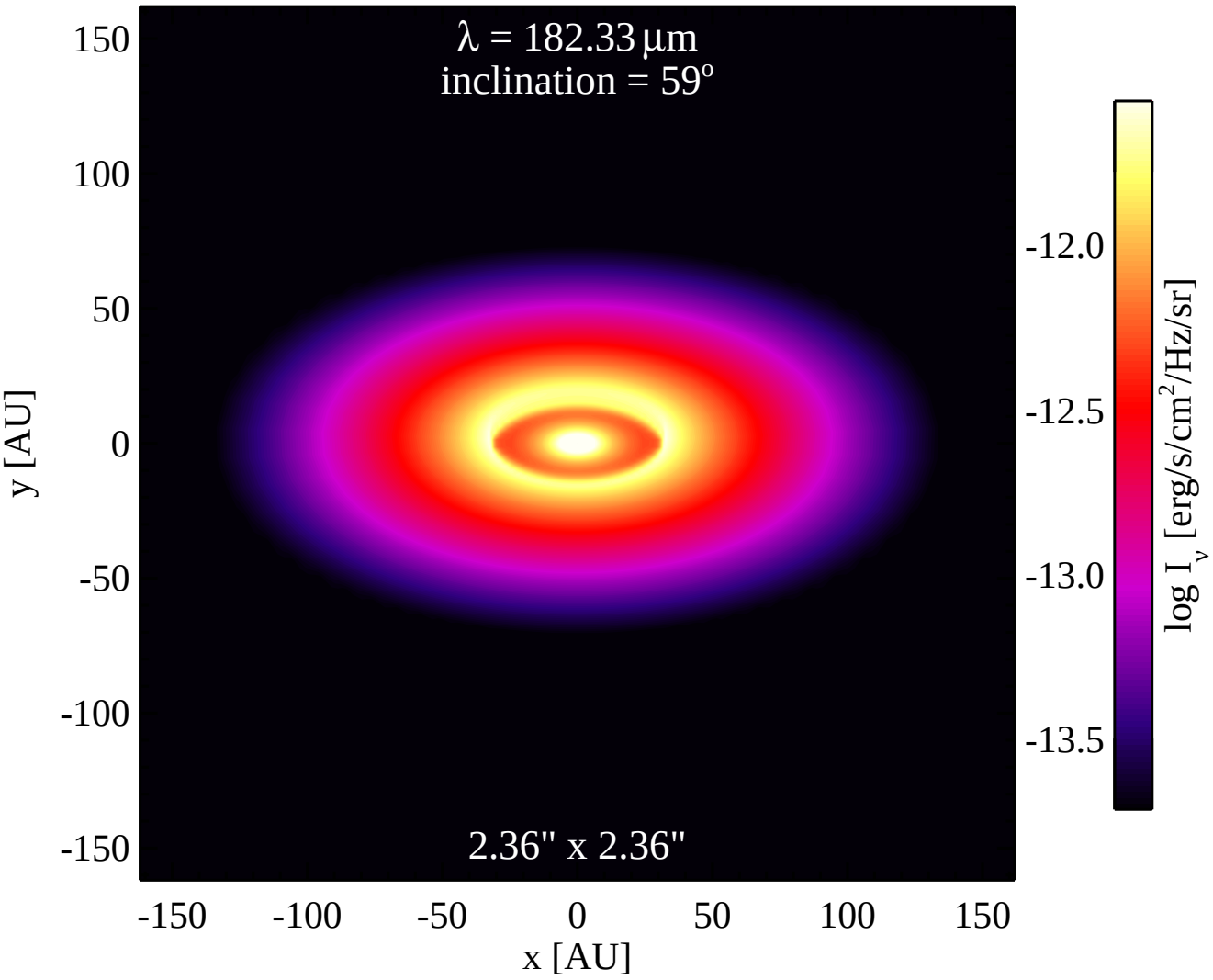

λ = 69.63 μm
inclination = 59°
2.21" x 2.21"
150
100
50
0
-50
-100
-150
y [AU]
-150
-100
-50
0
50
100
150
x [AU]
-11.5
-12.0
-12.5
-13.0
-13.5
log I_ν [erg/s/cm²/Hz/sr]

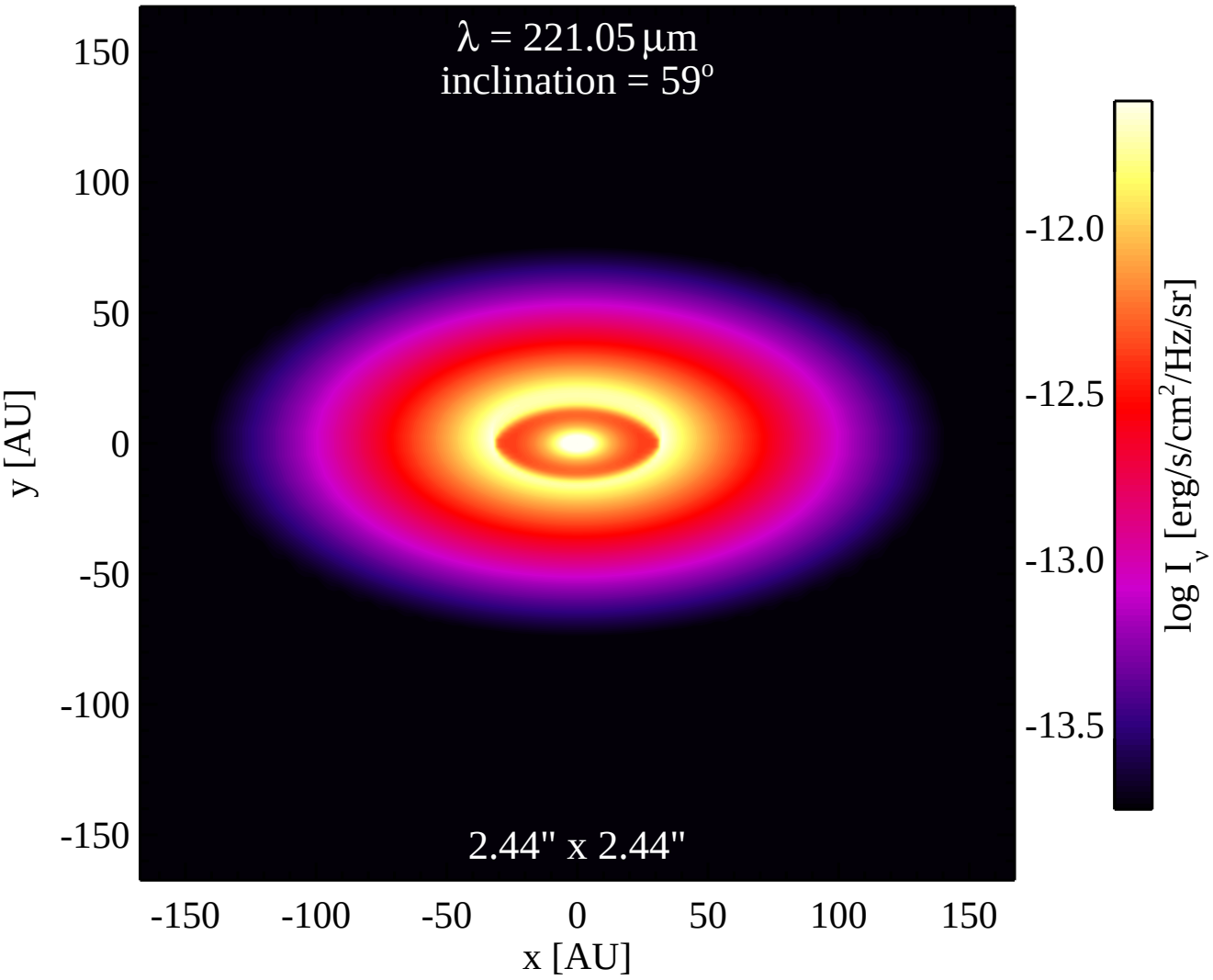

λ = 84.42 μm
inclination = 59°
2.23" x 2.23"
150
100
50
0
-50
-100
-150
y [AU]
-150
-100
-50
0
50
100
150
x [AU]
-11.5
-12.0
-12.5
-13.0
-13.5
log I_ν [erg/s/cm²/Hz/sr]

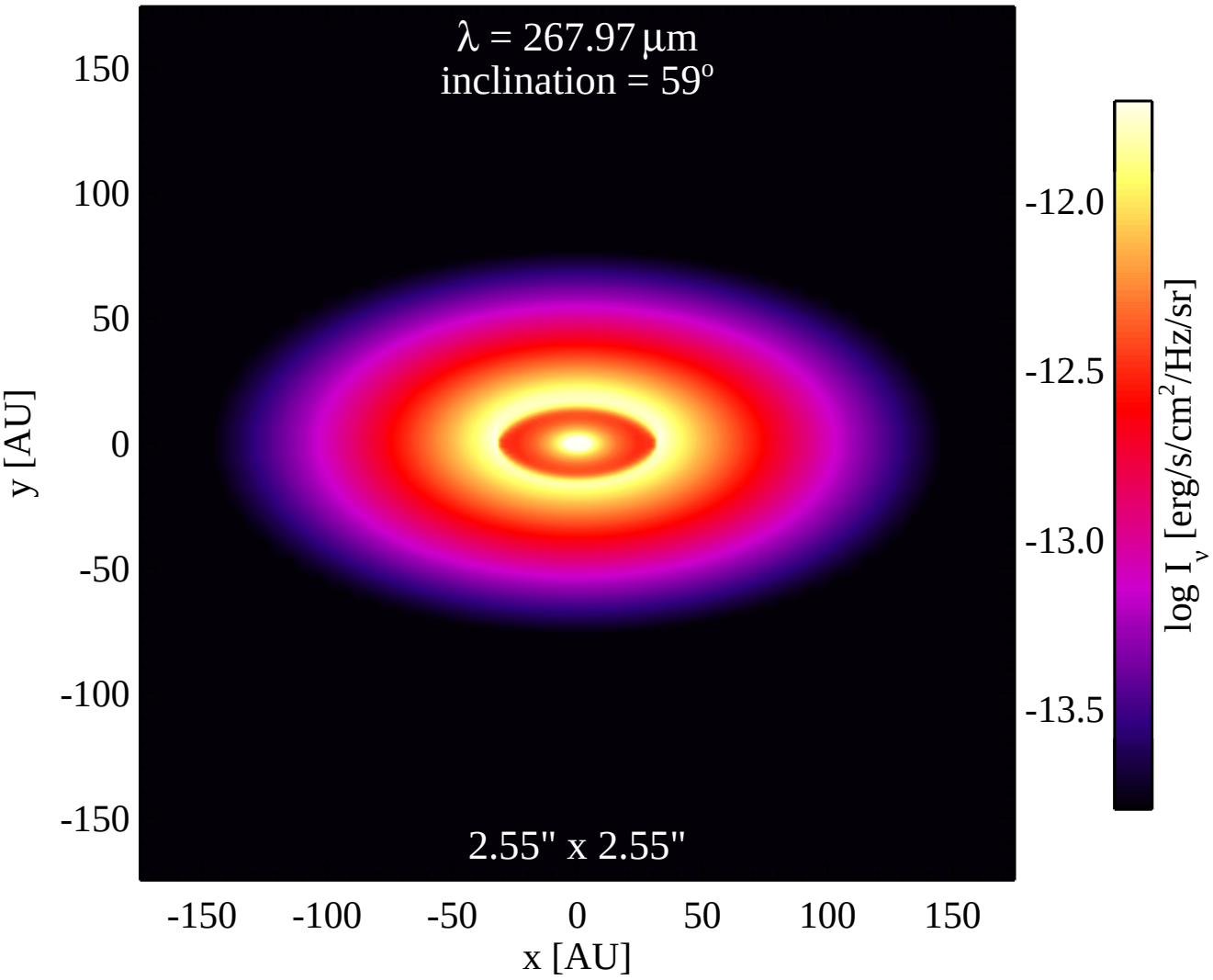

λ = 102.34 μm
inclination = 59°
2.24" x 2.24"
150
100
50
0
-50
-100
-150
y [AU]
-150
-100
-50
0
50
100
150
x [AU]
-11.5
-12.0
-12.5
-13.0
-13.5
log I_ν [erg/s/cm²/Hz/sr]

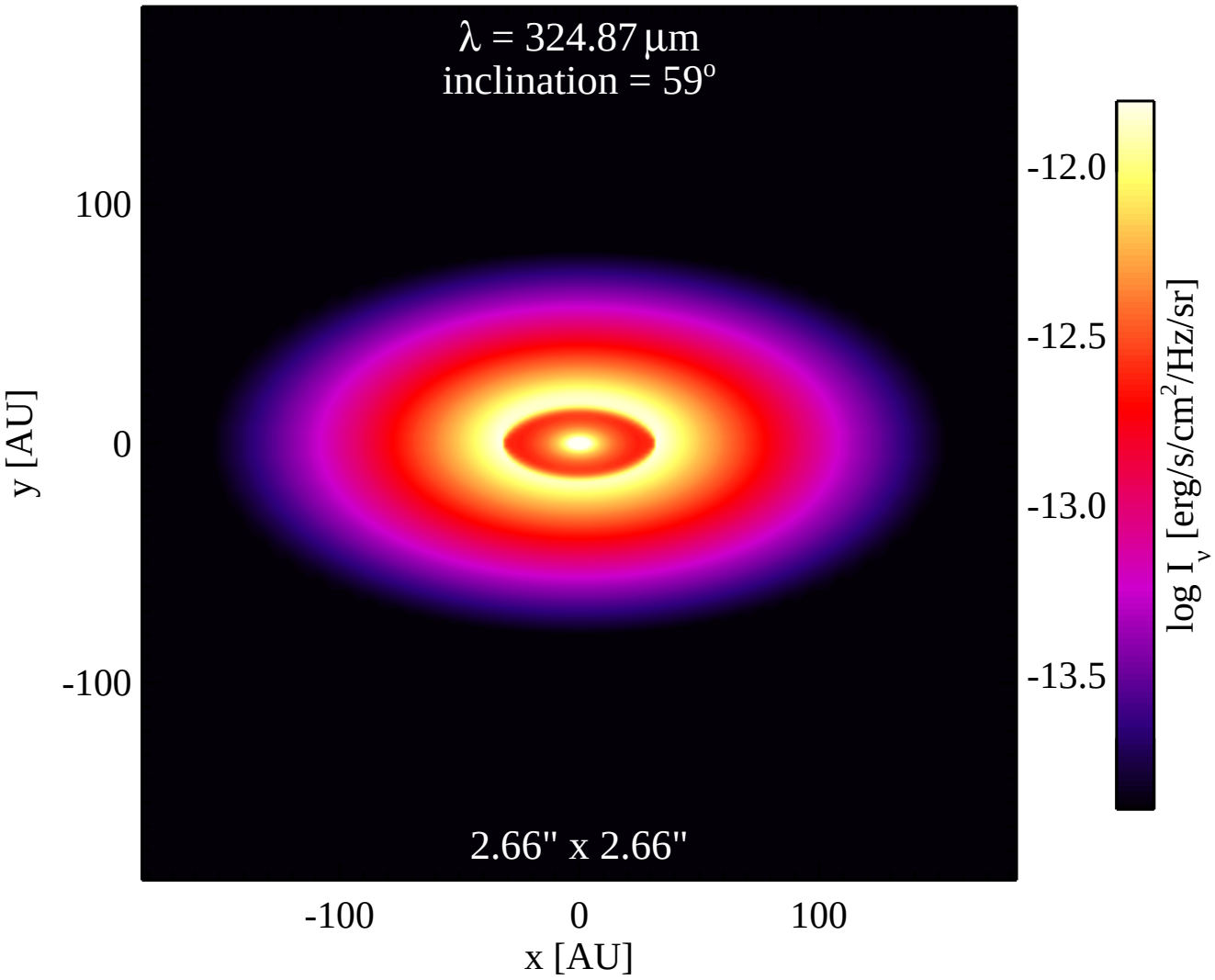

λ = 124.06 μm
inclination = 59°
2.26" x 2.26"
150
100
50
0
-50
-100
-150
y [AU]
-150
-100
-50
0
50
100
150
x [AU]
-11.5
-12.0
-12.5
-13.0
-13.5
log I_ν [erg/s/cm²/Hz/sr]

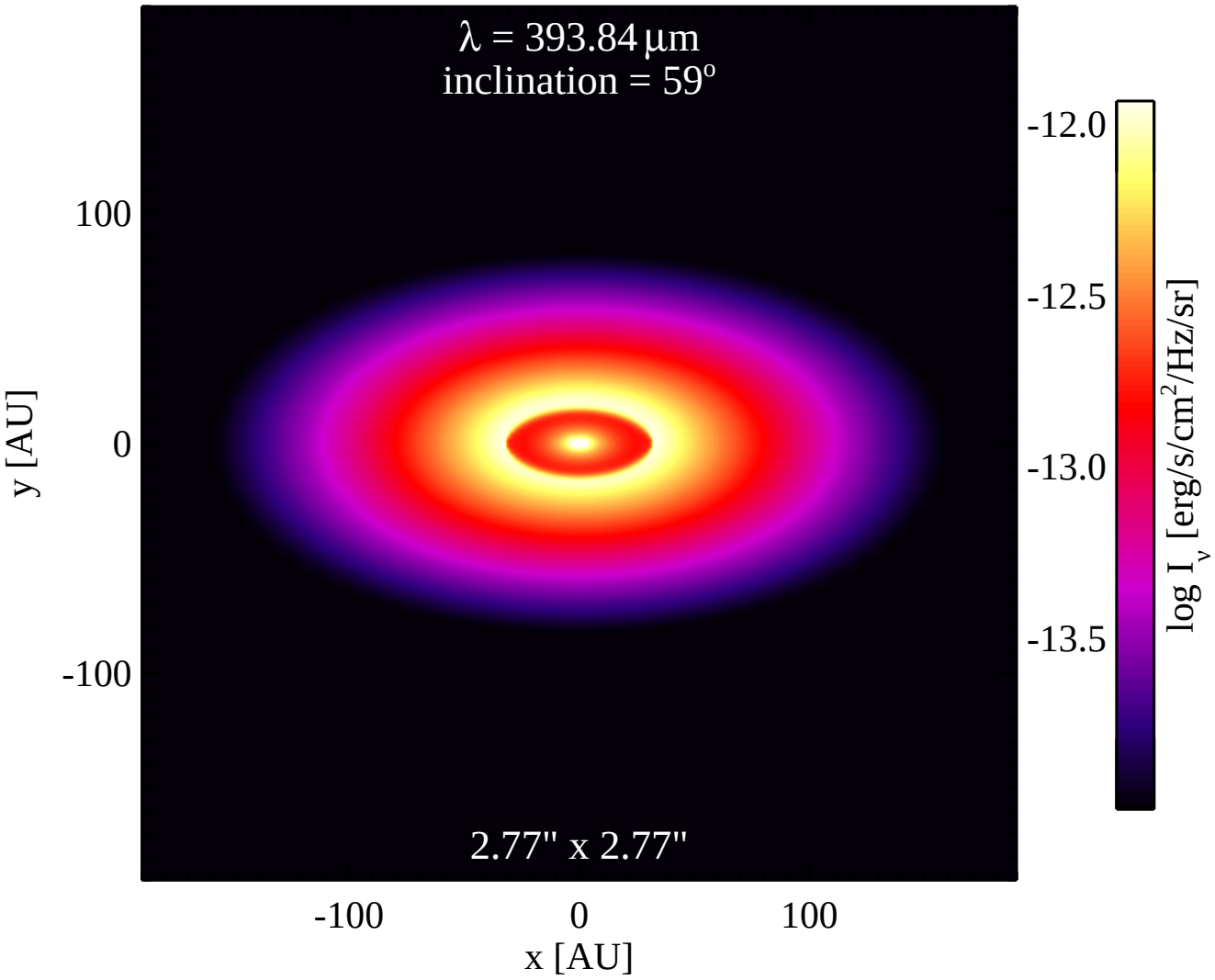

λ = 150.40 μm
inclination = 59°
2.30" x 2.30"
150
100
50
0
-50
-100
-150
y [AU]
-150
-100
-50
0
50
100
150
x [AU]
-12.0
-12.5
-13.0
-13.5
log I_ν [erg/s/cm²/Hz/sr]

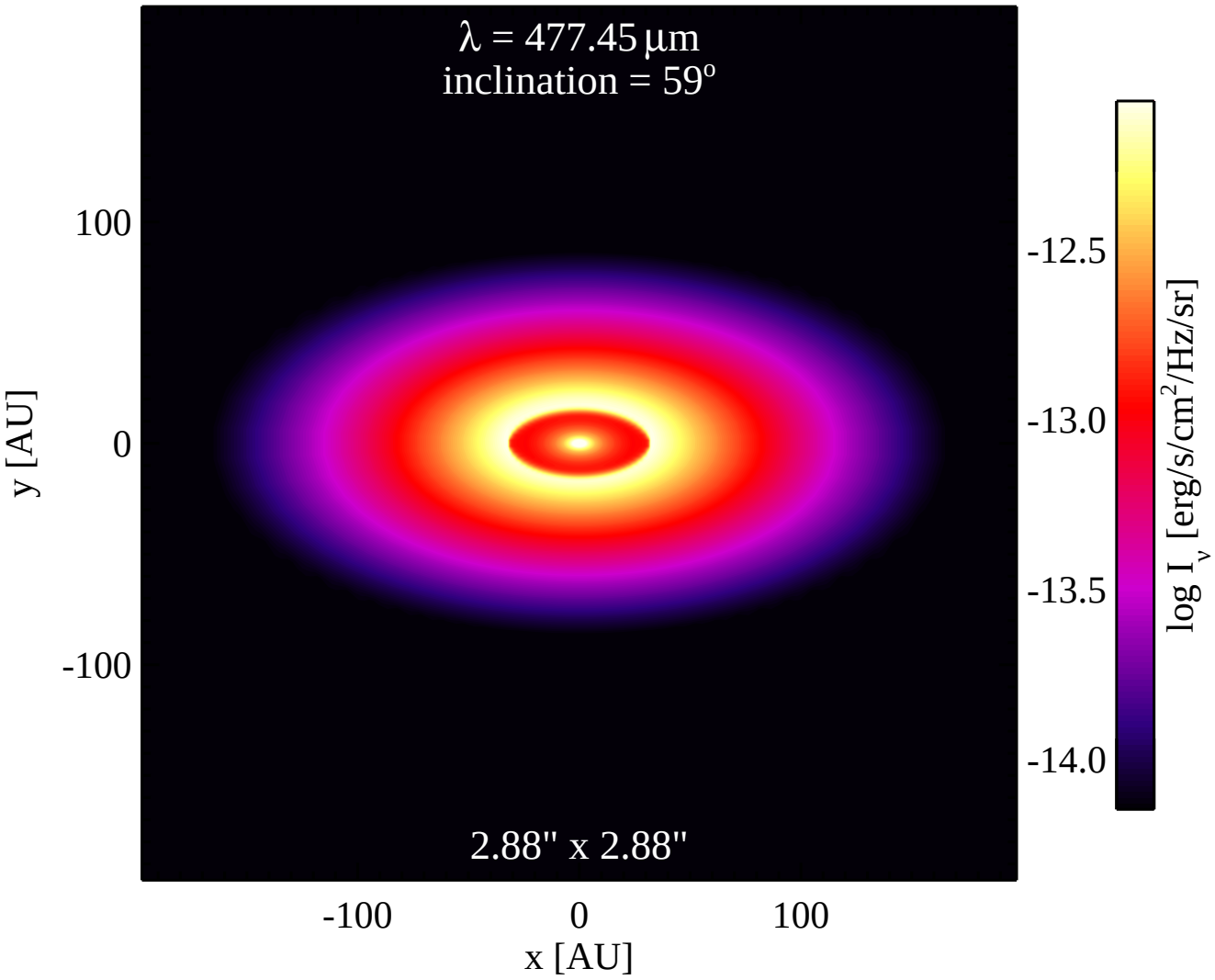

λ = 182.33 μm
inclination = 59°
2.36" x 2.36"
150
100
50
0
-50
-100
-150
y [AU]
-150
-100
-50
0
50
100
150
x [AU]
-12.0
-12.5
-13.0
-13.5
log I_ν [erg/s/cm²/Hz/sr]

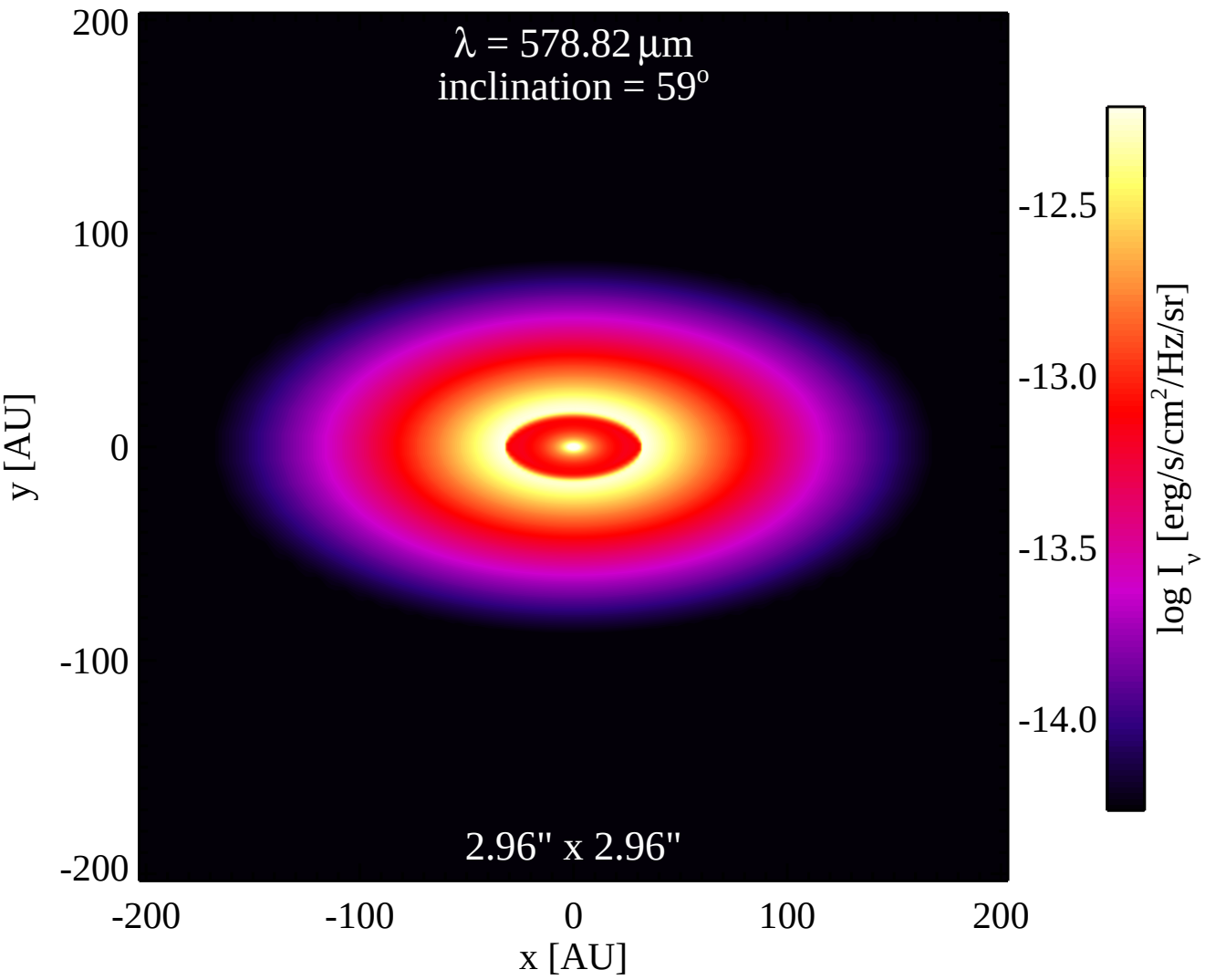

λ = 221.05 μm
inclination = 59°
2.44" x 2.44"
150
100
50
0
-50
-100
-150
y [AU]
-150
-100
-50
0
50
100
150
x [AU]
-12.0
-12.5
-13.0
-13.5
log I_ν [erg/s/cm²/Hz/sr]

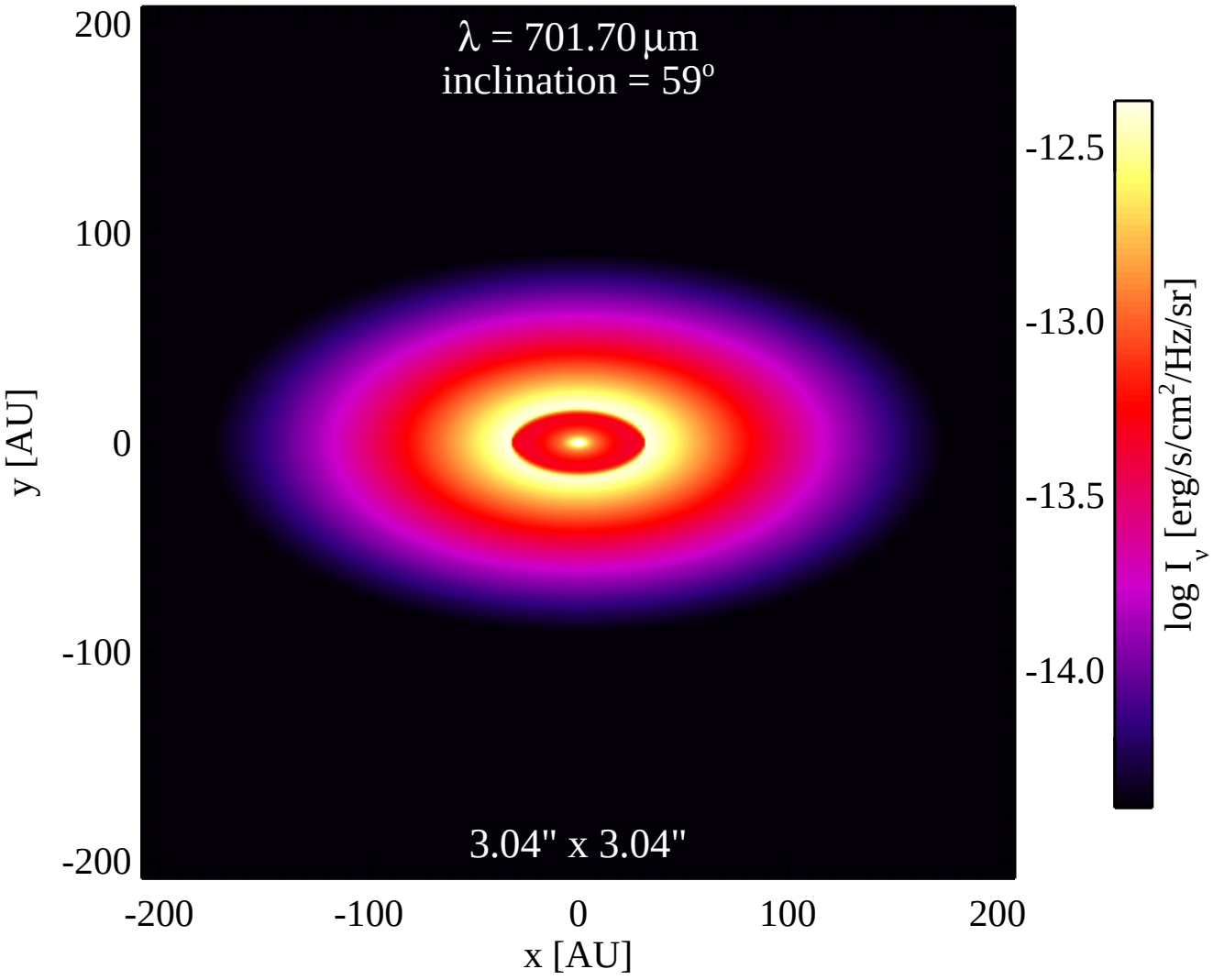

λ = 267.97 μm
inclination = 59°
2.55" x 2.55"
150
100
50
0
-50
-100
-150
y [AU]
-150
-100
-50
0
50
100
150
x [AU]
-12.0
-12.5
-13.0
-13.5
log I_ν [erg/s/cm²/Hz/sr]

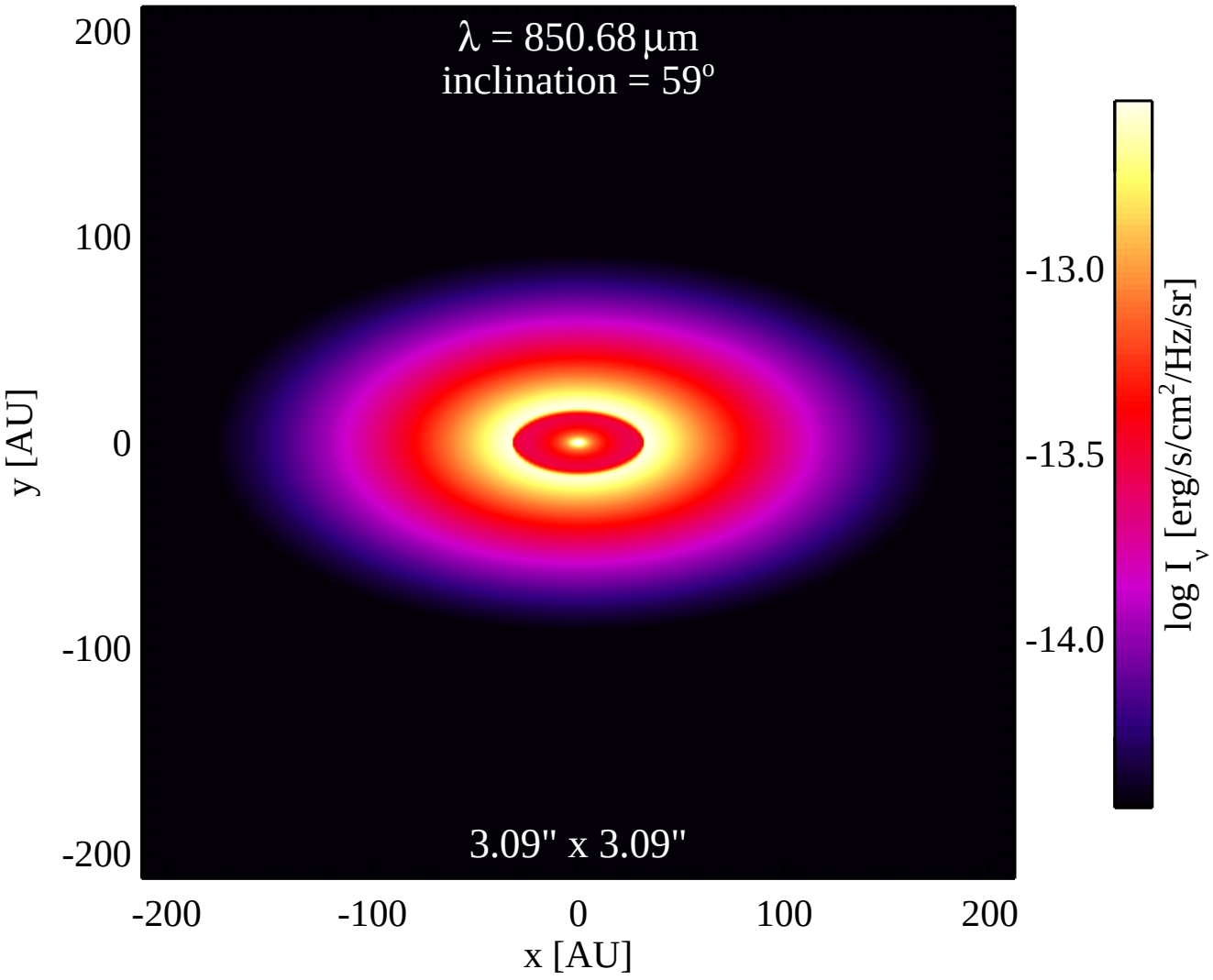

λ = 324.87 μm
inclination = 59°
2.66" x 2.66"
100
0
-100
y [AU]
-100
0
100
x [AU]
-12.0
-12.5
-13.0
-13.5
log I_ν [erg/s/cm²/Hz/sr]

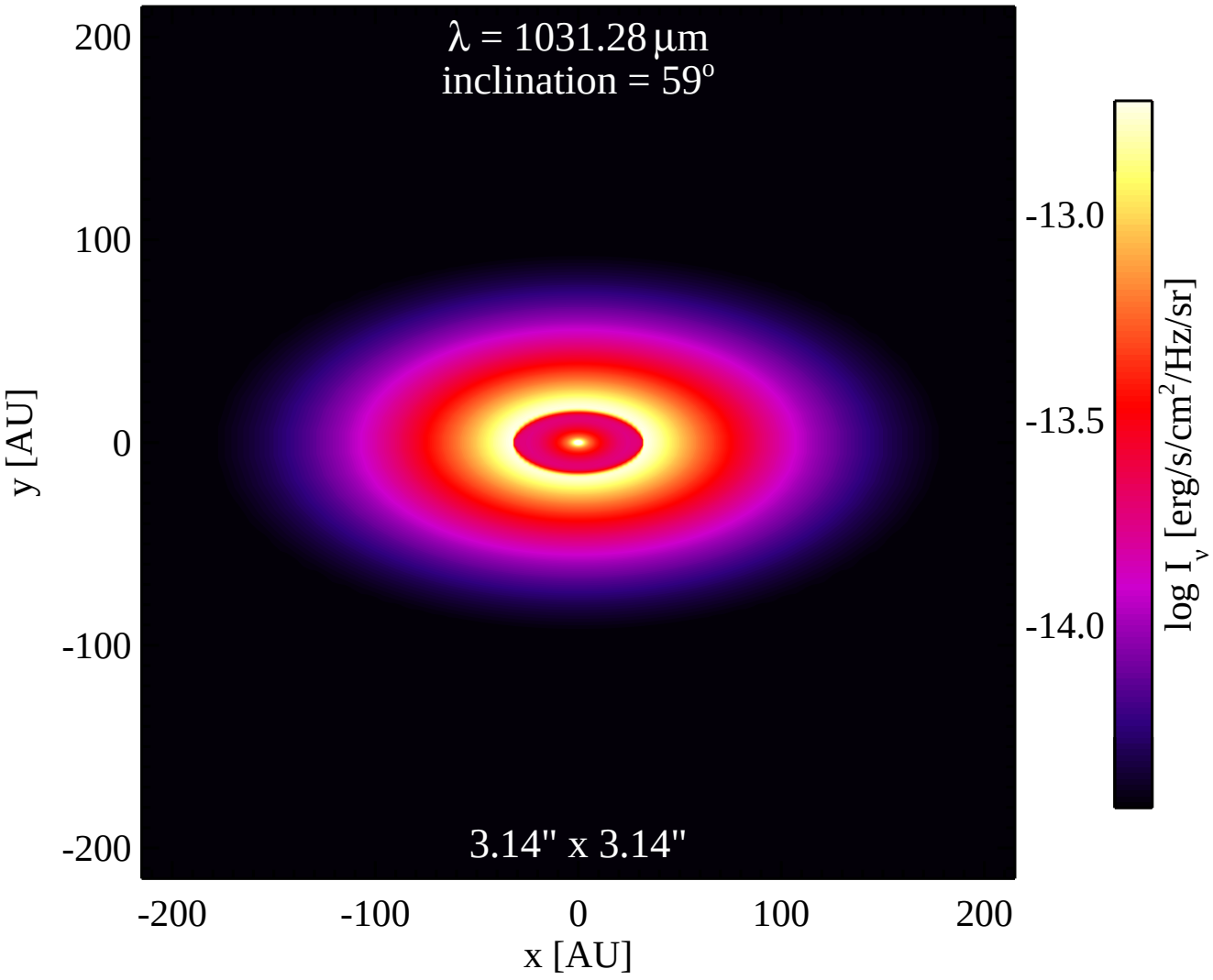

λ = 393.84 μm
inclination = 59°
2.77" x 2.77"
100
0
-100
y [AU]
-100
0
100
x [AU]
-12.0
-12.5
-13.0
-13.5
log I_ν [erg/s/cm²/Hz/sr]

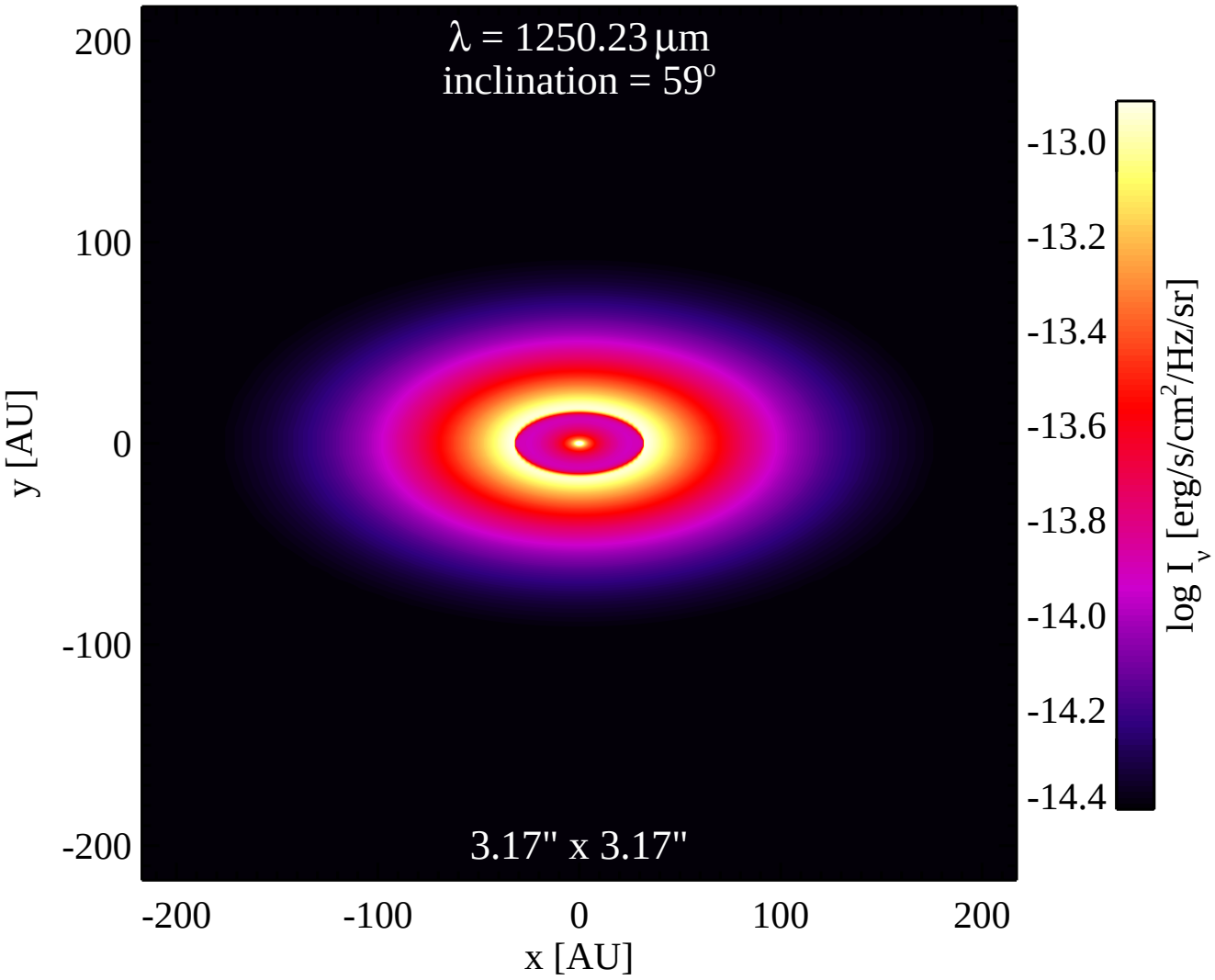

λ = 477.45 μm
inclination = 59°
2.88" x 2.88"
100
0
-100
y [AU]
-100
0
100
x [AU]
-12.5
-13.0
-13.5
-14.0
log I_ν [erg/s/cm²/Hz/sr]

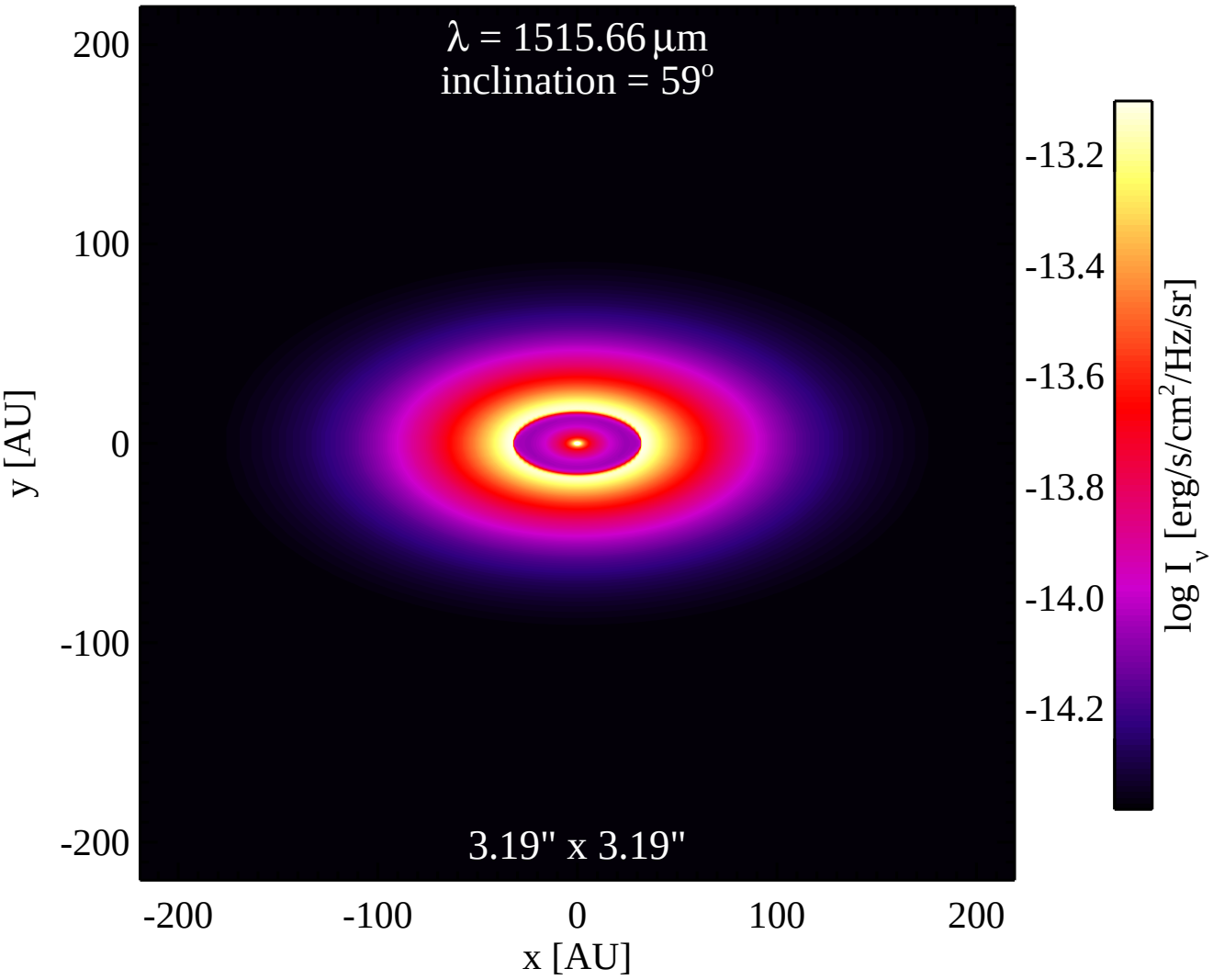

λ = 578.82 μm
inclination = 59°
2.96" x 2.96"
200
100
0
-100
-200
y [AU]
-200
-100
0
100
200
x [AU]
-12.5
-13.0
-13.5
-14.0
log I_ν [erg/s/cm²/Hz/sr]

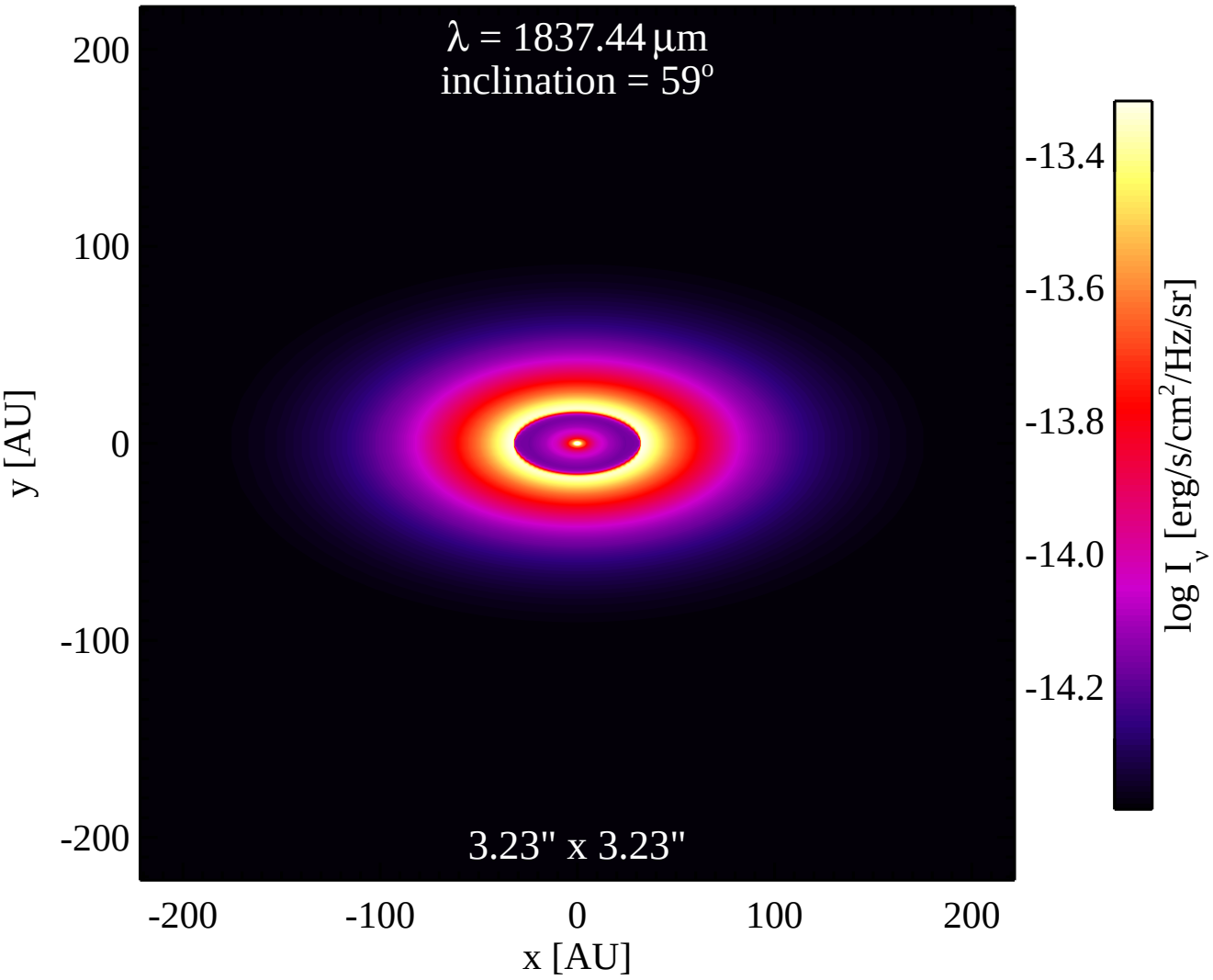

λ = 701.70 μm
inclination = 59°
3.04" x 3.04"
200
100
0
-100
-200
y [AU]
-200
-100
0
100
200
x [AU]
-12.5
-13.0
-13.5
-14.0
log I_ν [erg/s/cm²/Hz/sr]

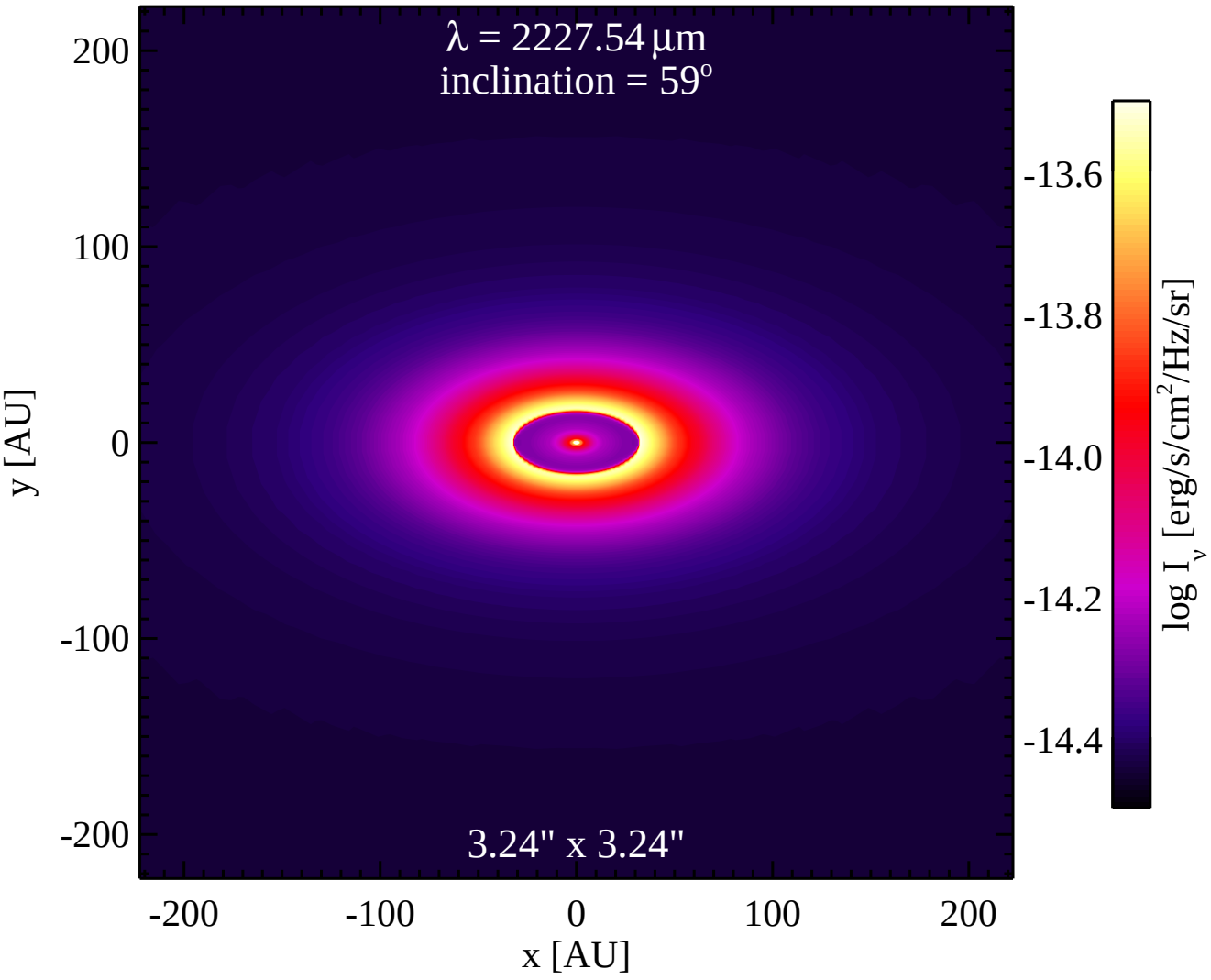

λ = 850.68 μm
inclination = 59°
3.09" x 3.09"
200
100
0
-100
-200
y [AU]
-200
-100
0
100
200
x [AU]
-13.0
-13.5
-14.0
log I_ν [erg/s/cm²/Hz/sr]

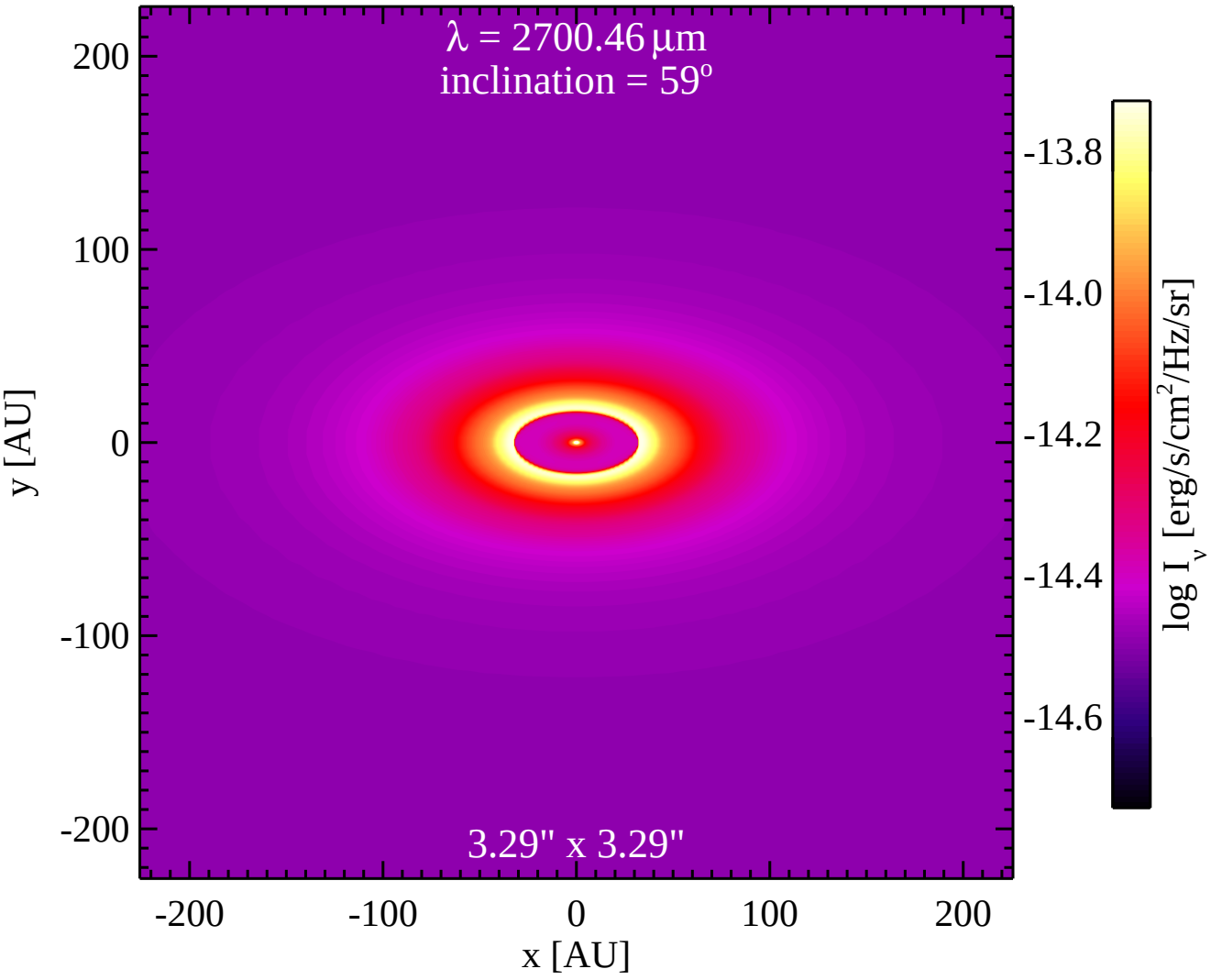

λ = 1031.28 μm
inclination = 59°
3.14" x 3.14"
200
100
0
-100
-200
y [AU]
-200
-100
0
100
200
x [AU]
-13.0
-13.5
-14.0
log I_ν [erg/s/cm²/Hz/sr]

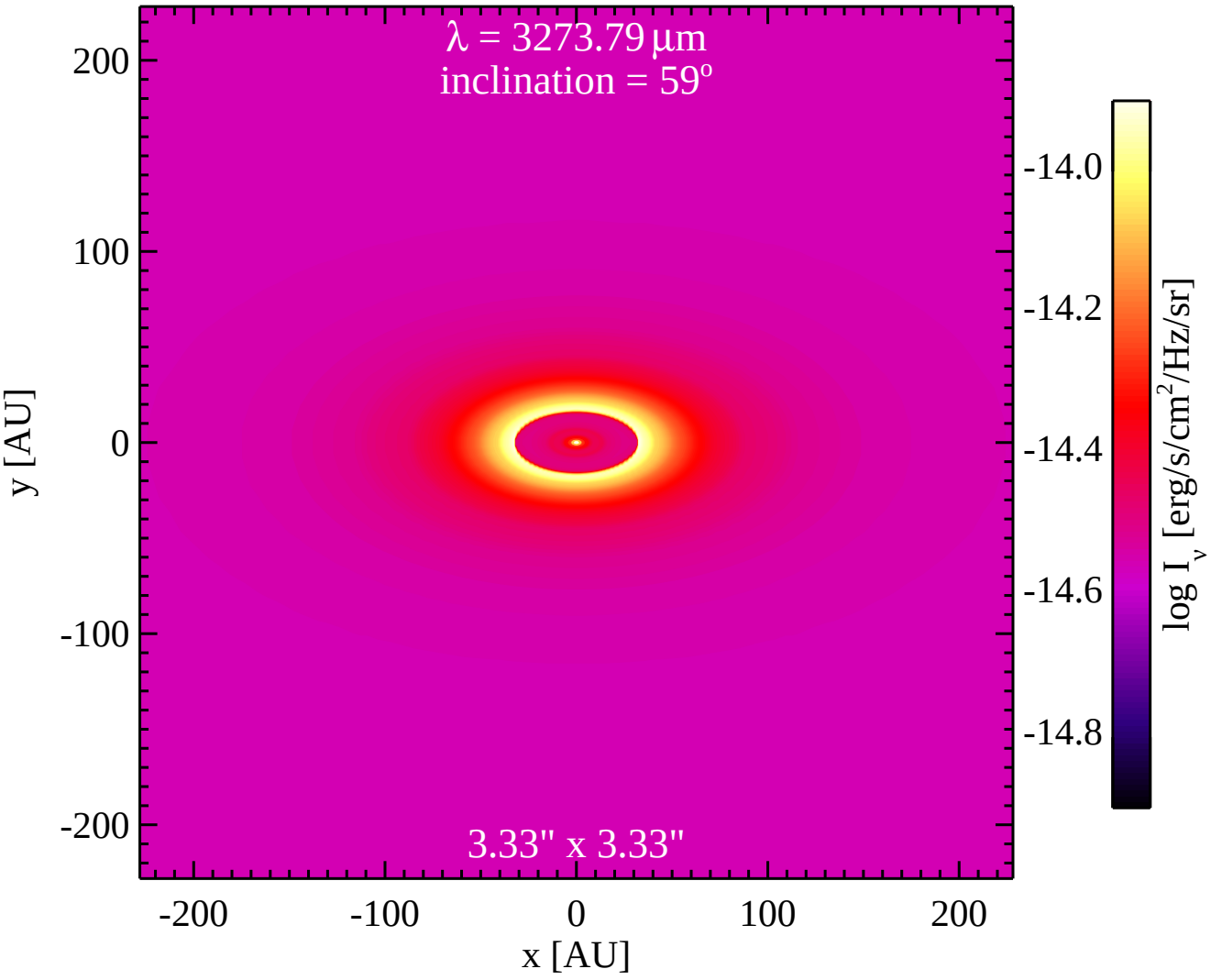

λ = 1250.23 μm
inclination = 59°
3.17" x 3.17"
200
100
0
-100
-200
y [AU]
-200
-100
0
100
200
x [AU]
-13.0
-13.2
-13.4
-13.6
-13.8
-14.0
-14.2
-14.4
log I_ν [erg/s/cm²/Hz/sr]

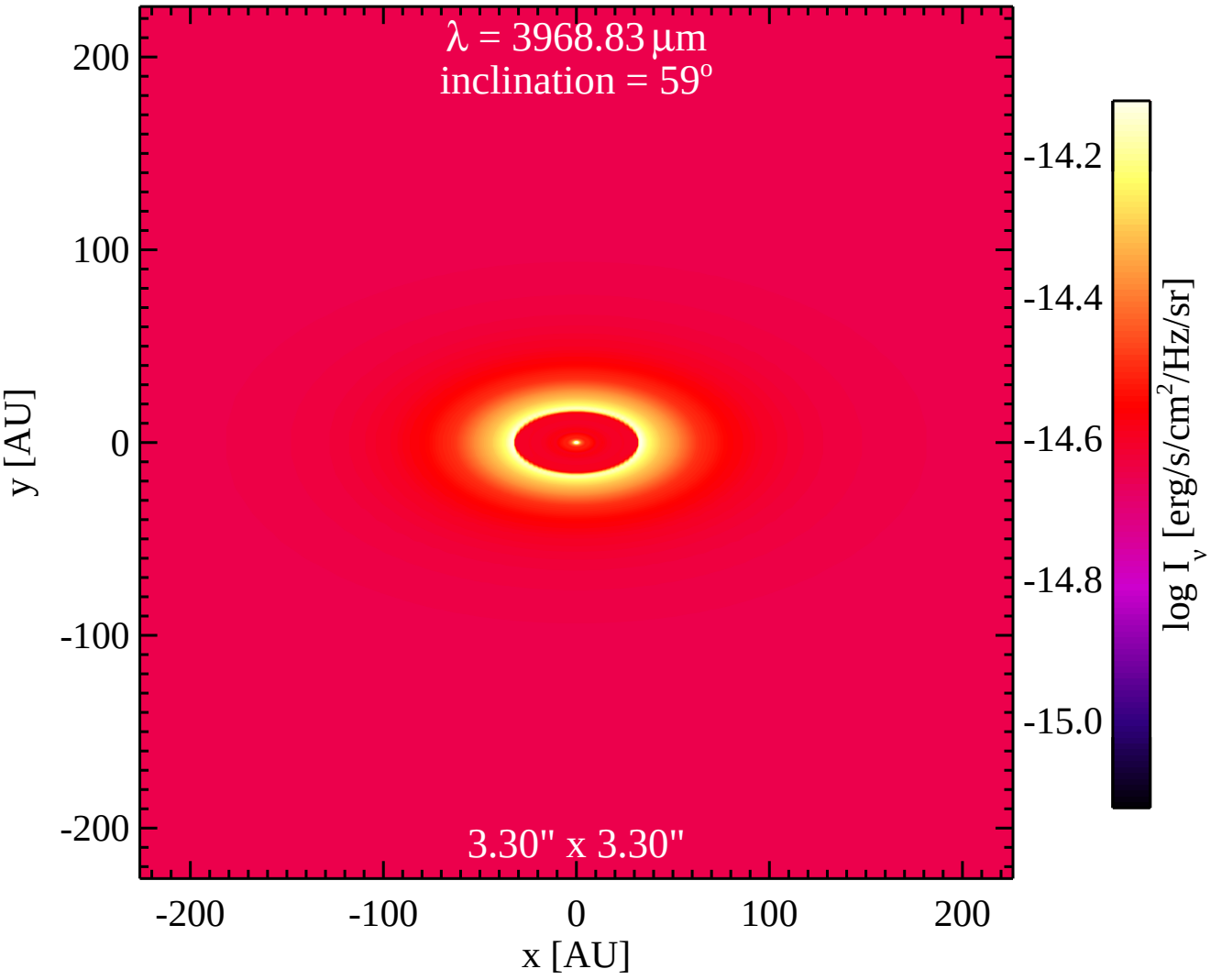

λ = 1515.66 μm
inclination = 59°
3.19" x 3.19"
200
100
0
-100
-200
y [AU]
-200
-100
0
100
200
x [AU]
-13.2
-13.4
-13.6
-13.8
-14.0
-14.2
log I_ν [erg/s/cm²/Hz/sr]

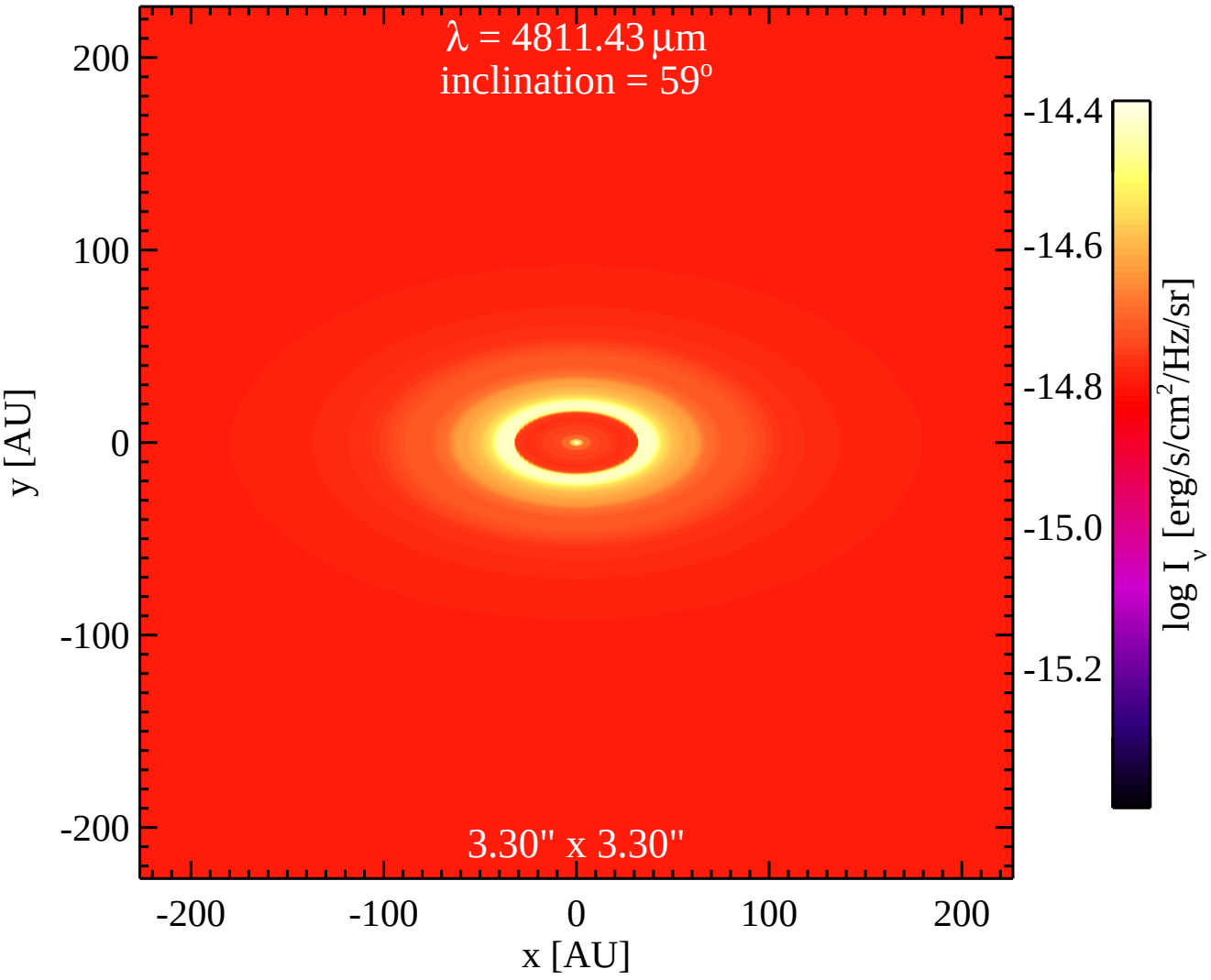

λ = 1837.44 μm
inclination = 59°
3.23" x 3.23"
200
100
0
-100
-200
y [AU]
-200
-100
0
100
200
x [AU]
-13.4
-13.6
-13.8
-14.0
-14.2
log I_ν [erg/s/cm²/Hz/sr]


λ = 2227.54 μm
inclination = 59°
3.24" x 3.24"
200
100
0
-100
-200
y [AU]
-200
-100
0
100
200
x [AU]
-13.6
-13.8
-14.0
-14.2
-14.4
log I_ν [erg/s/cm²/Hz/sr]


λ = 2700.46 μm
inclination = 59°
3.29" x 3.29"
200
100
0
-100
-200
y [AU]
-200
-100
0
100
200
x [AU]
-13.8
-14.0
-14.2
-14.4
-14.6
log I_ν [erg/s/cm²/Hz/sr]


λ = 3273.79 μm
inclination = 59°
3.33" x 3.33"
200
100
0
-100
-200
y [AU]
-200
-100
0
100
200
x [AU]
-14.0
-14.2
-14.4
-14.6
-14.8
log I_ν [erg/s/cm²/Hz/sr]


λ = 3968.83 μm
inclination = 59°
3.30" x 3.30"
200
100
0
-100
-200
y [AU]
-200
-100
0
100
200
x [AU]
-14.2
-14.4
-14.6
-14.8
-15.0
log I_ν [erg/s/cm²/Hz/sr]


λ = 4811.43 μm
inclination = 59°
3.30" x 3.30"
200
100
0
-100
-200
y [AU]
-200
-100
0
100
200
x [AU]
-14.4
-14.6
-14.8
-15.0
-15.2
log I_ν [erg/s/cm²/Hz/sr]