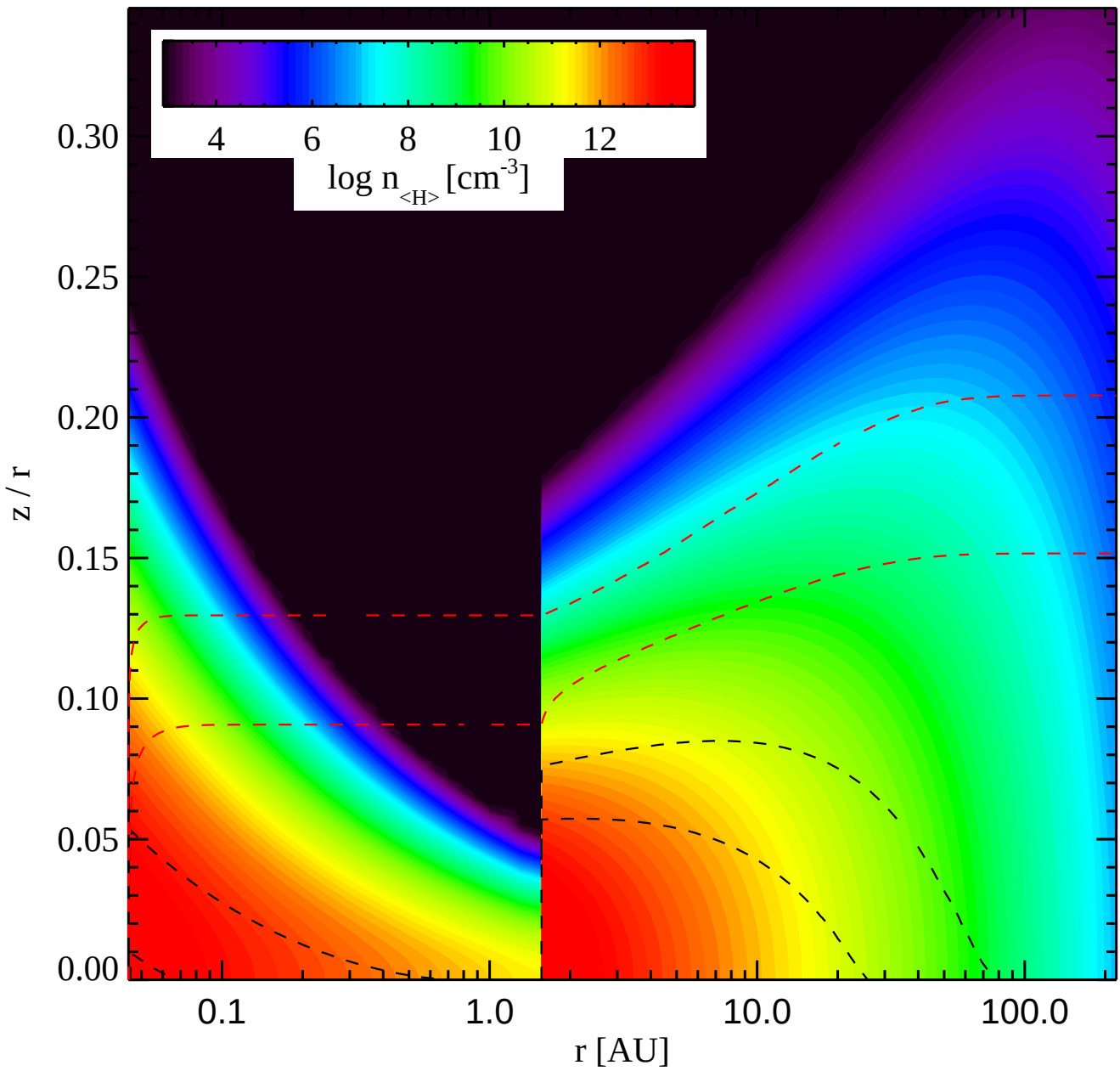
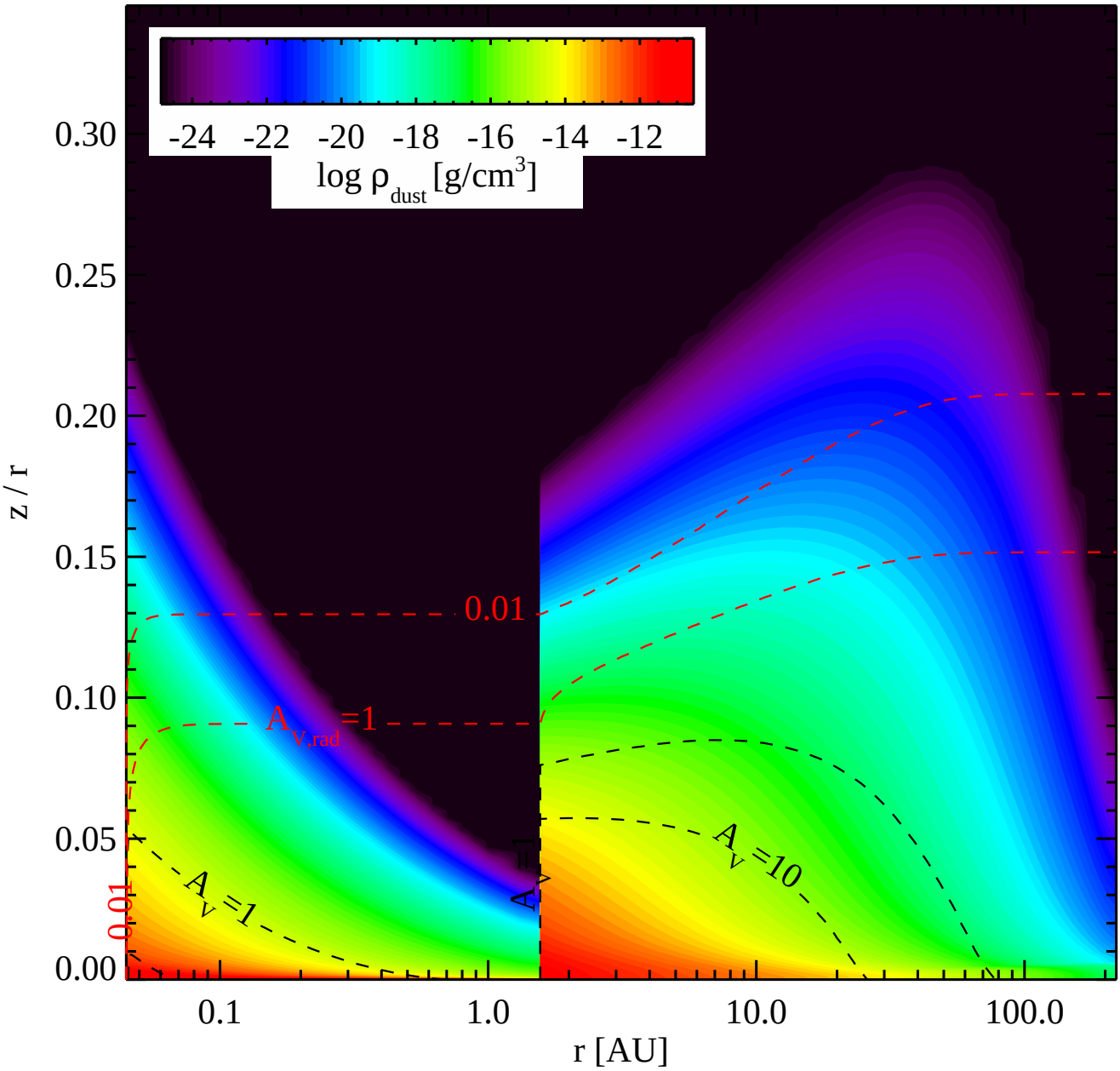
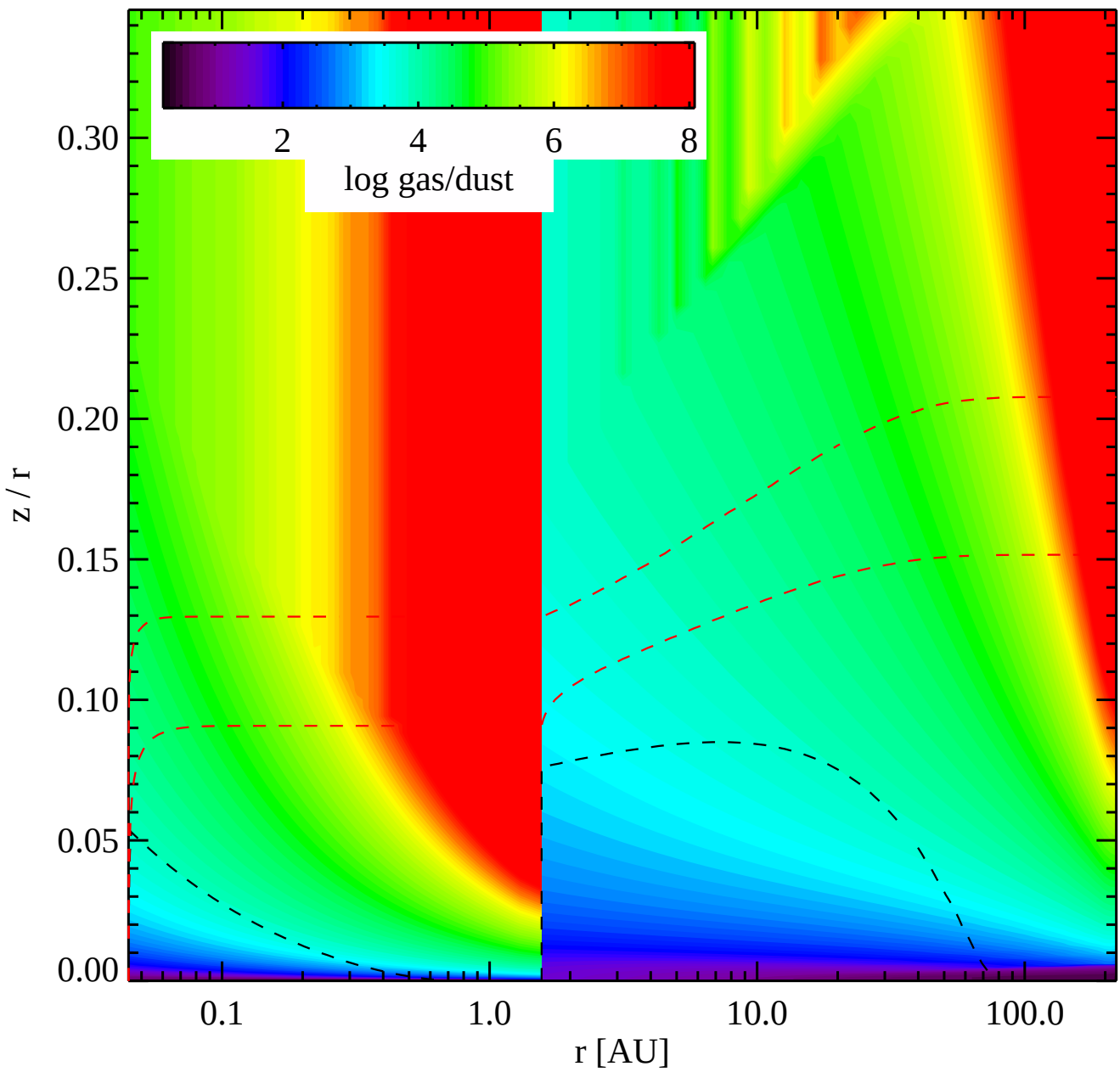
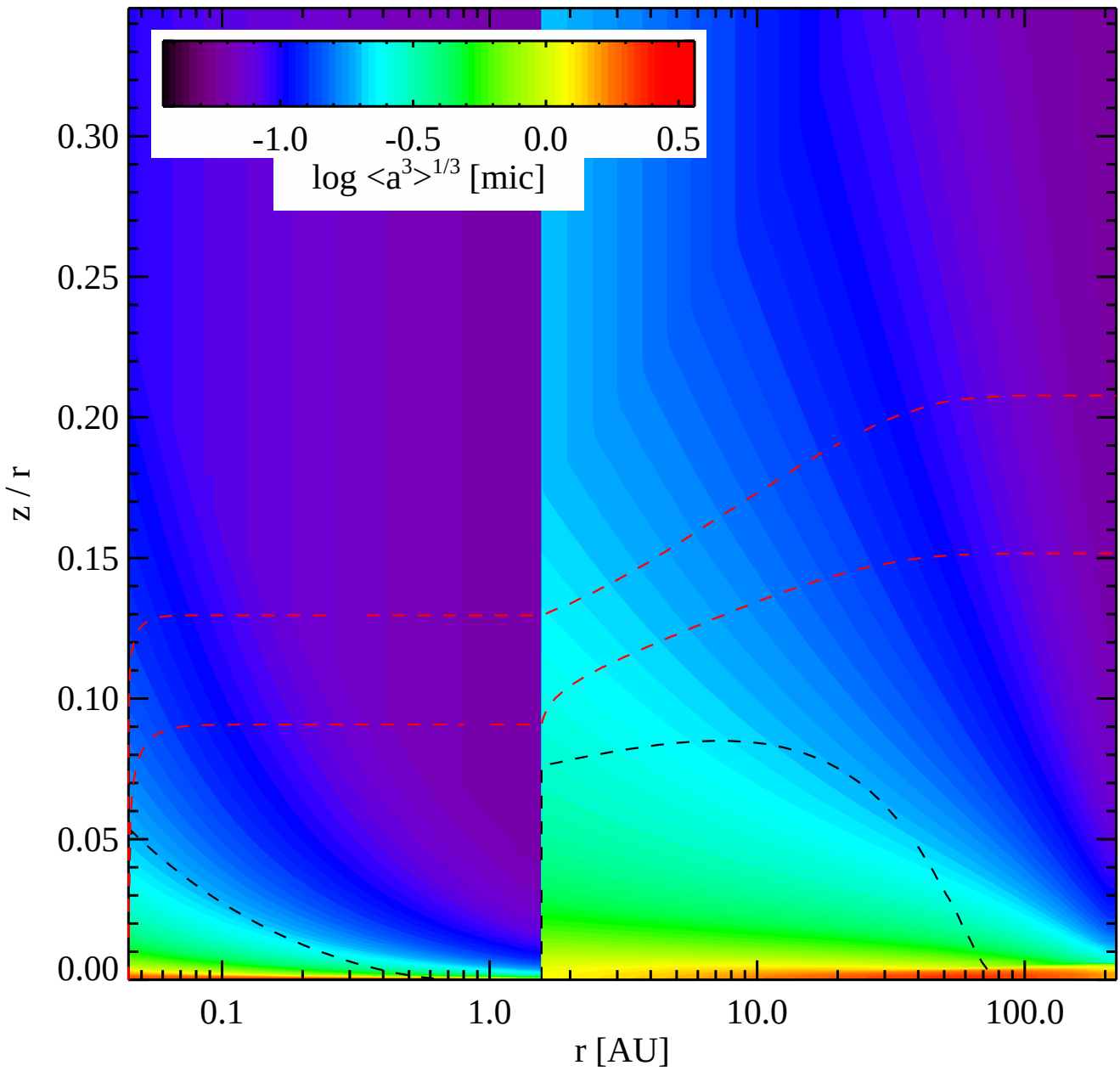
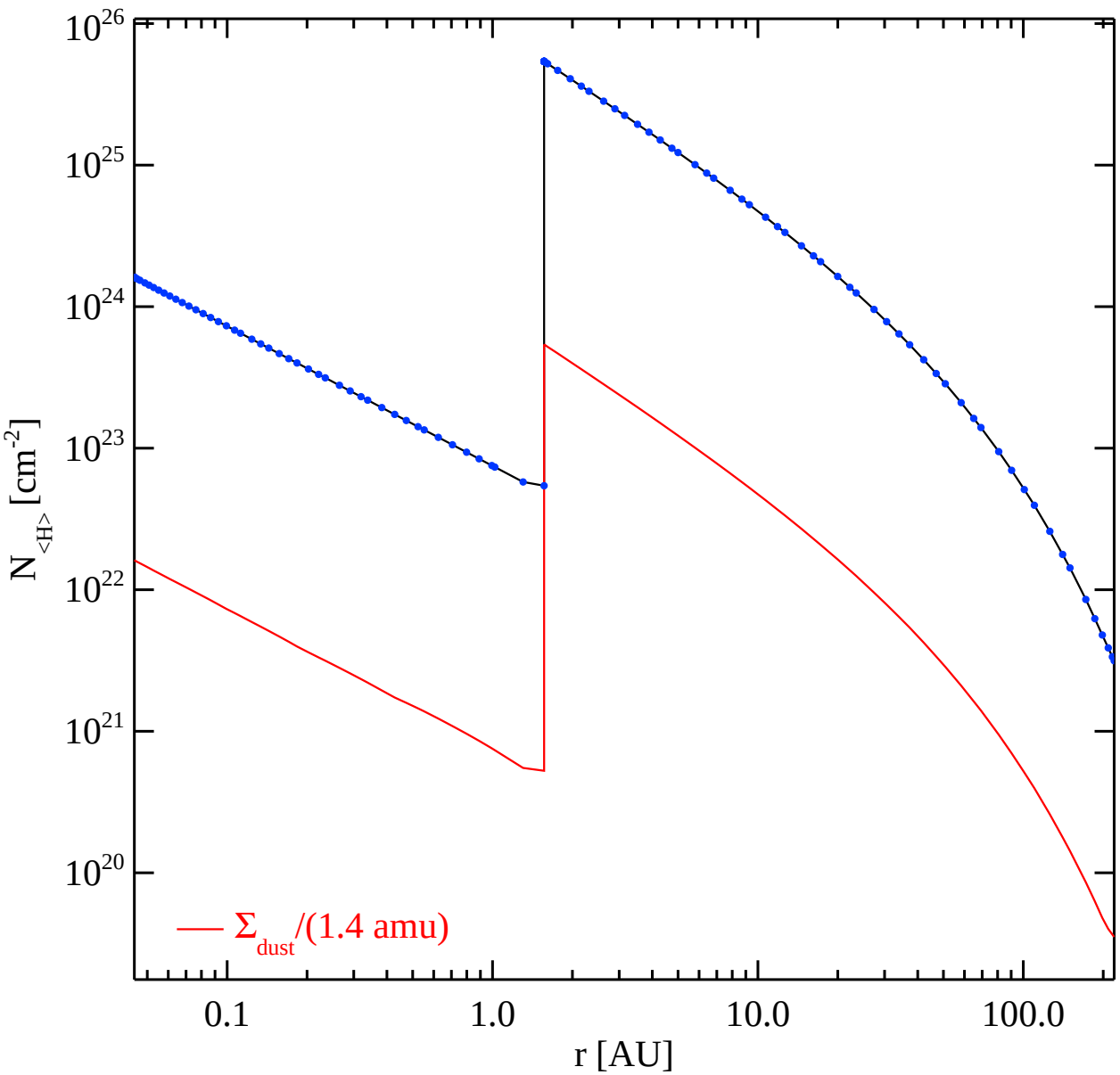
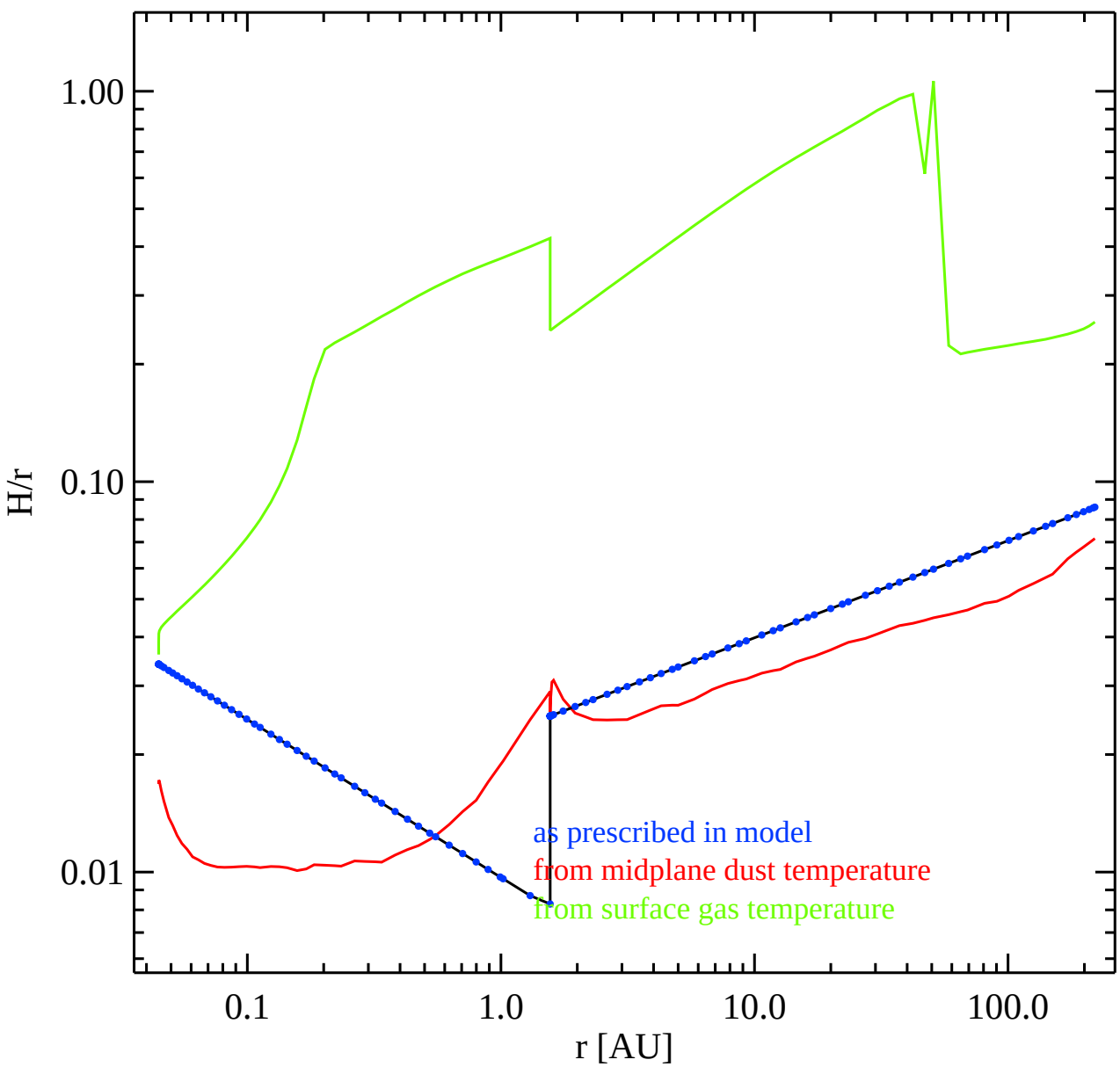

4
6
8
10
12
log n<H> [cm-3]
0.30
0.25
0.20
0.15
0.10
0.05
0.00
z / r
0.1
1.0
10.0
100.0
r [AU]

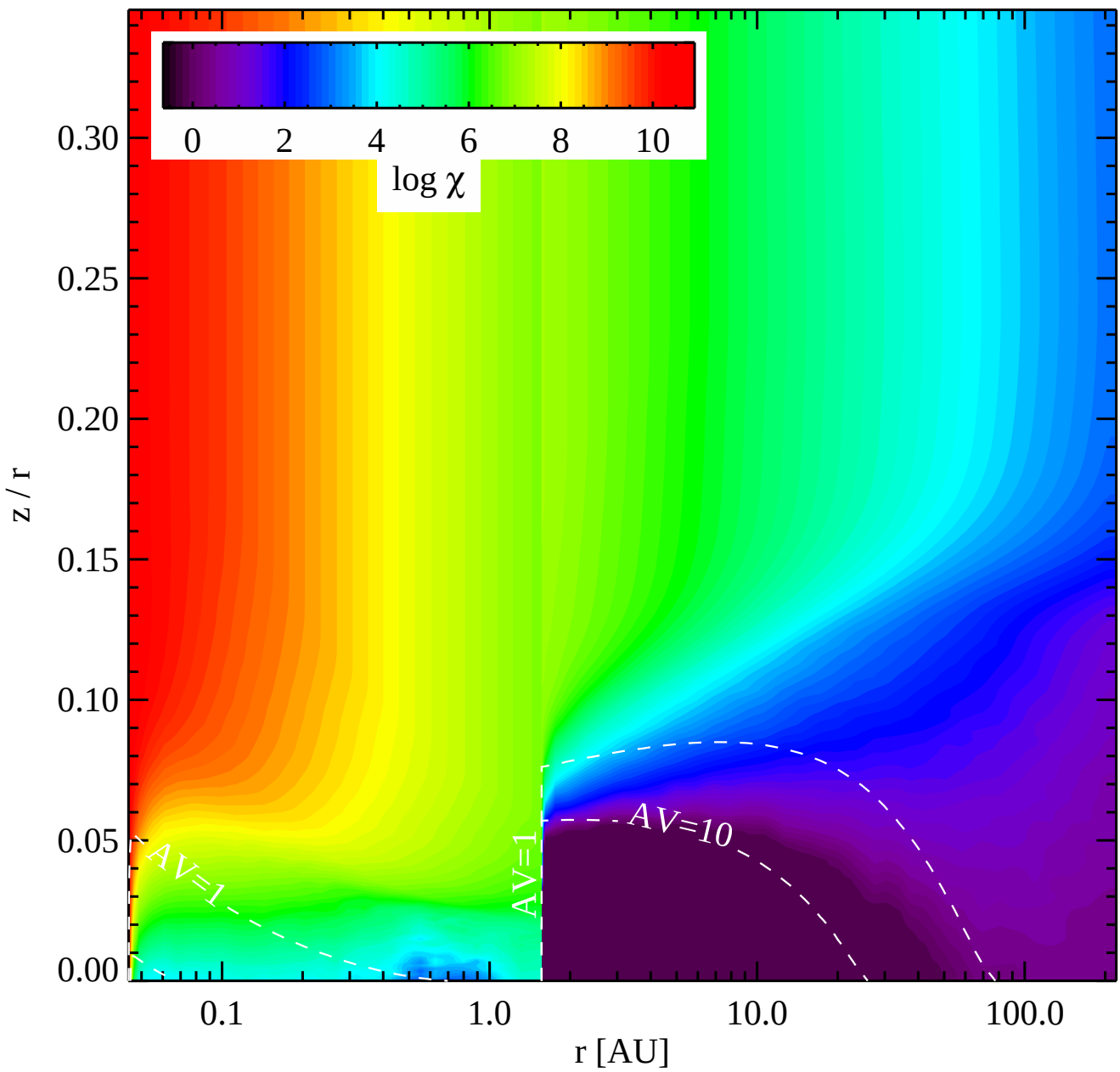

-24 -22 -20 -18 -16 -14 -12
log ρ dust [g/cm3]
0.30
0.25
0.20
0.15
0.10
0.05
0.00
z / r
0.01
A V,rad =1
A V =1
A V =10
A V =1
0.01
0.1
1.0
10.0
100.0
r [AU]

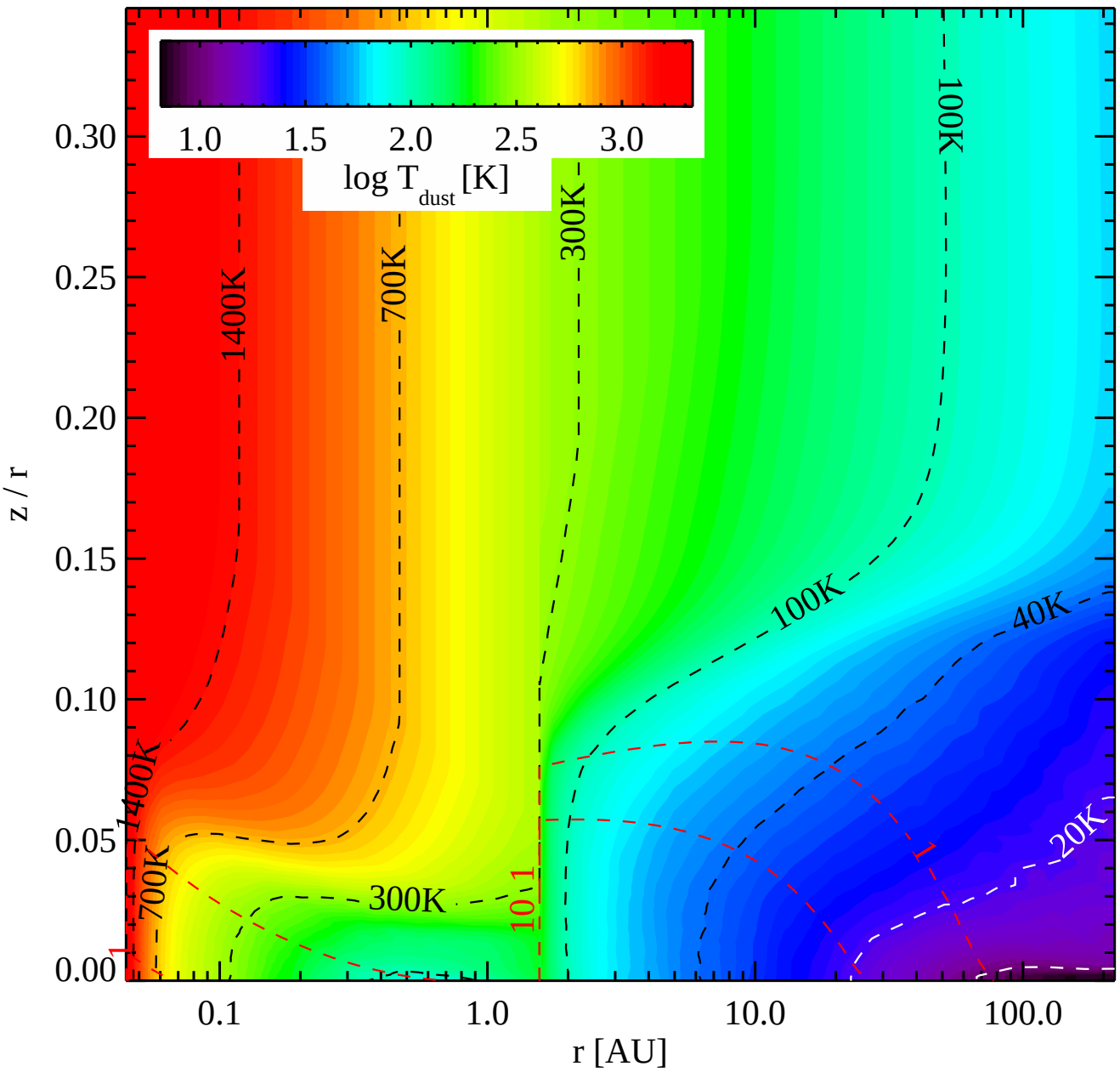

2
4
6
8
log gas/dust
0.30
0.25
0.20
0.15
0.10
0.05
0.00
z / r
0.1
1.0
10.0
100.0
r [AU]

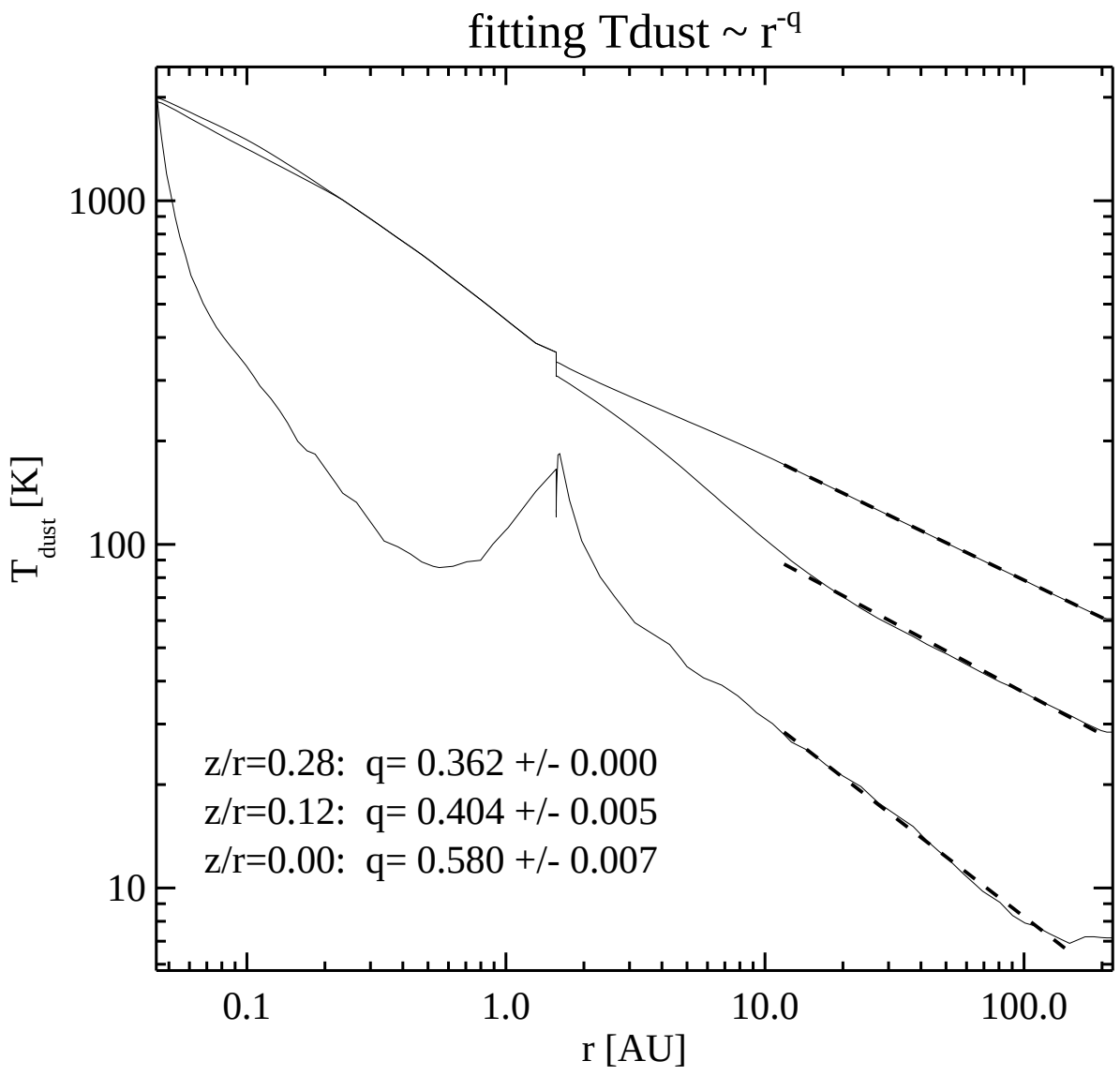

-1.0
-0.5
0.0
0.5
log <a^3>^1/3 [mic]
0.30
0.25
0.20
0.15
0.10
0.05
0.00
z / r
0.1
1.0
10.0
100.0
r [AU]

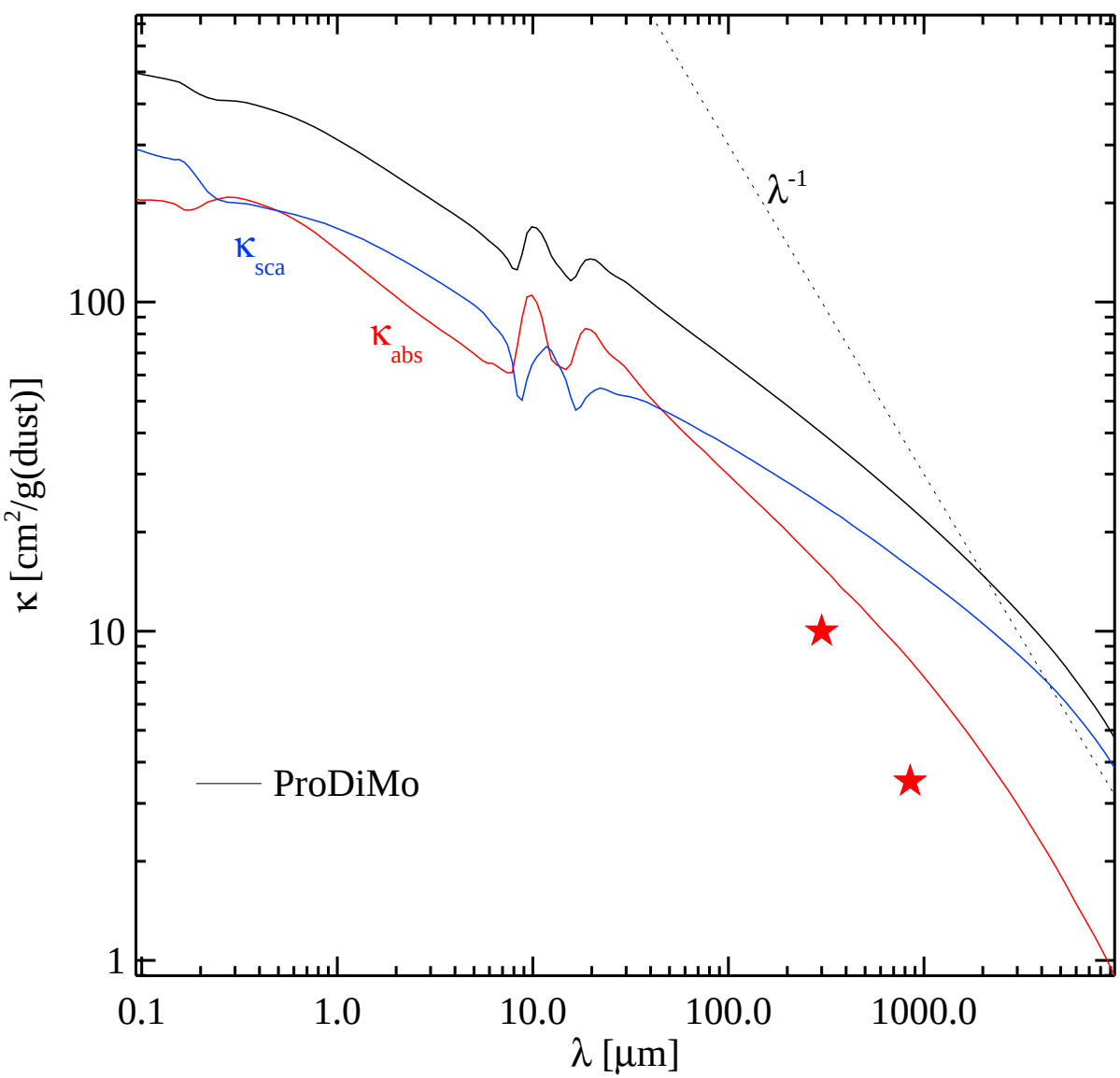

10^{26}
10^{25}
10^{24}
10^{23}
10^{22}
10^{21}
10^{20}
$N_{<H>}$ [cm^{-2}]
— Σ_{dust}/(1.4 amu)
0.1
1.0
10.0
100.0
r [AU]

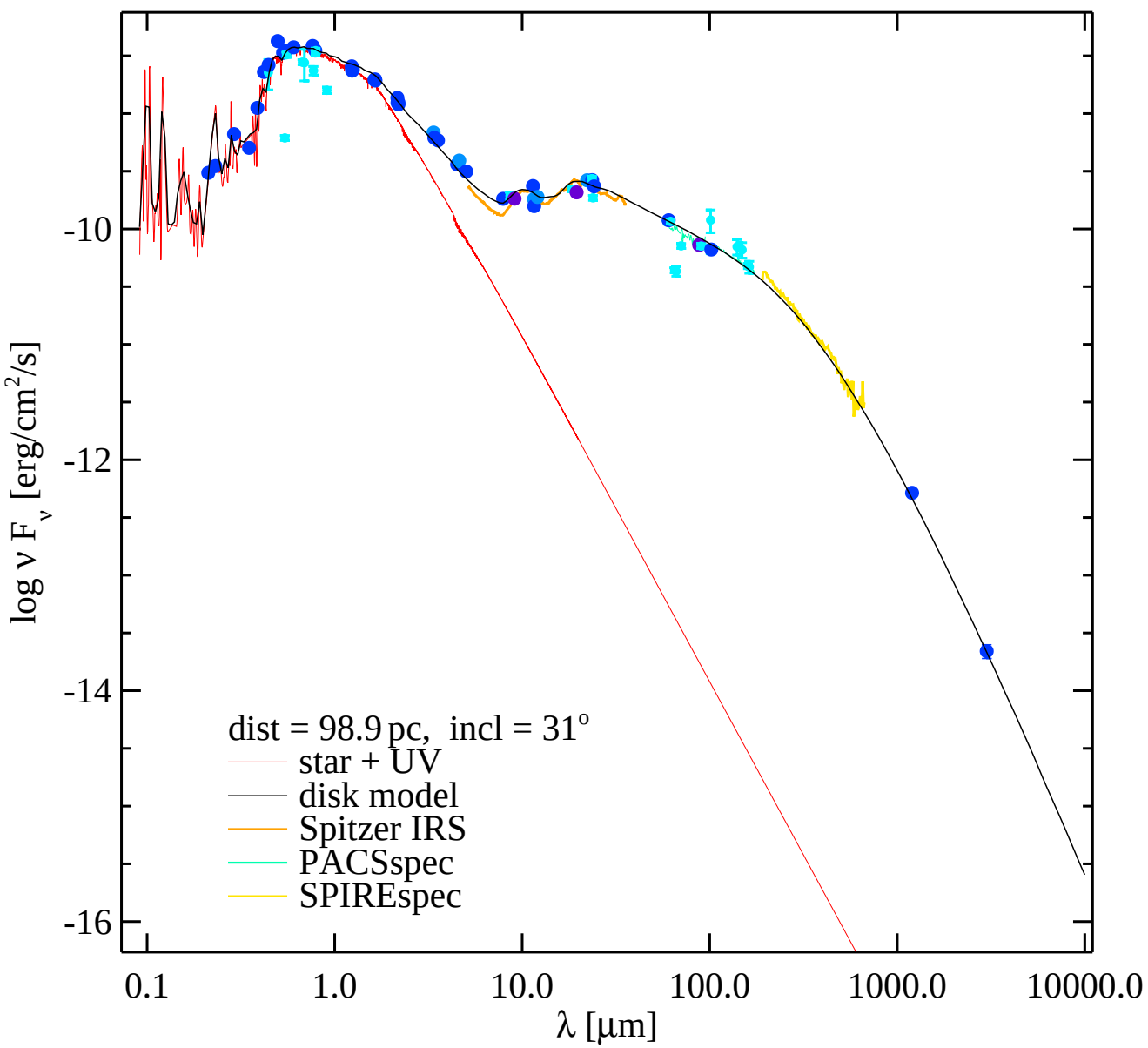

1.00
0.10
0.01
H/r
0.1
1.0
10.0
100.0
r [AU]
as prescribed in model
from midplane dust temperature
from surface gas temperature

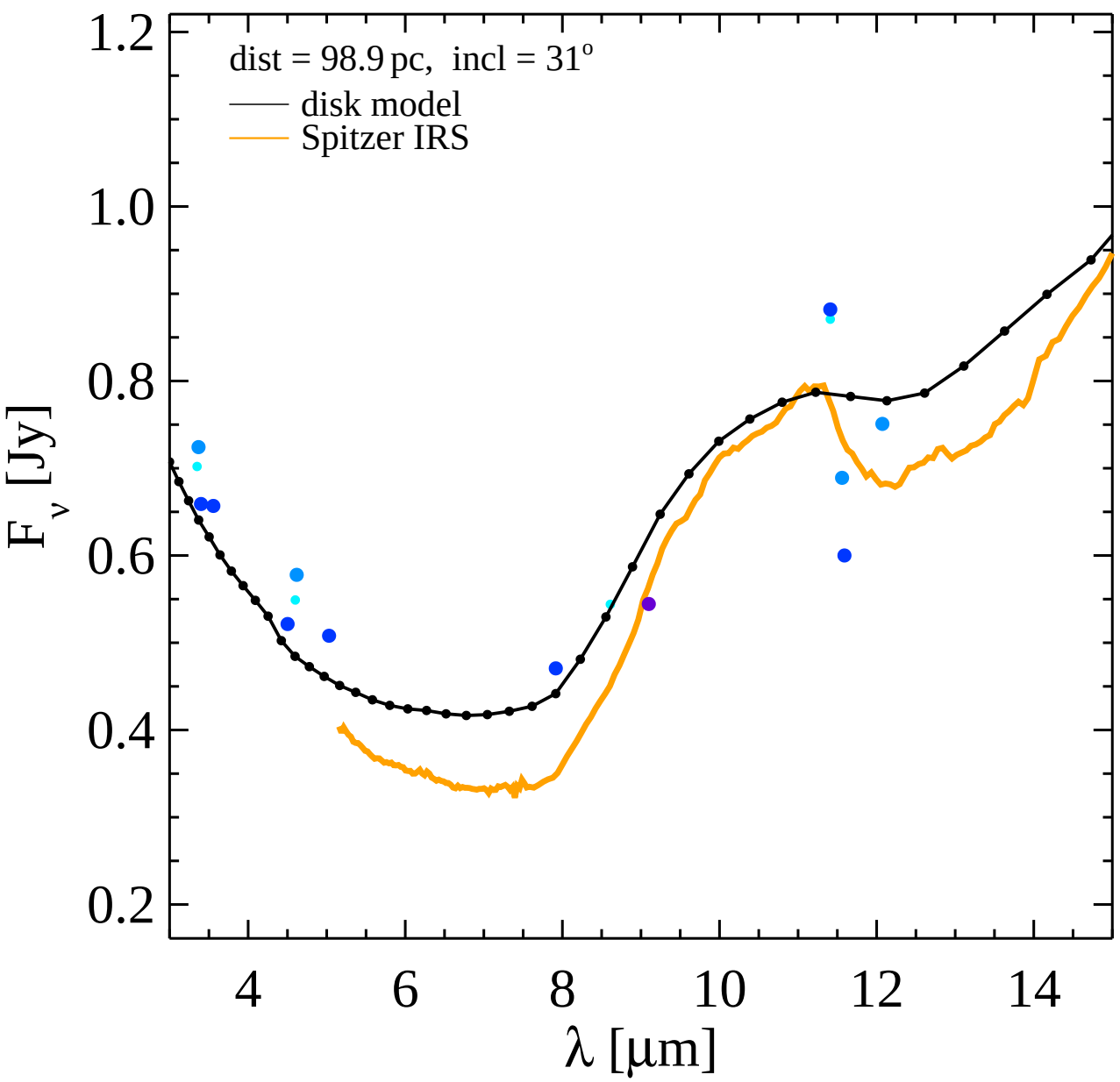

0
2
4
6
8
10
log χ
0.30
0.25
0.20
0.15
0.10
0.05
0.00
z / r
AV=1
AV=1
AV=10
0.1
1.0
10.0
100.0
r [AU]

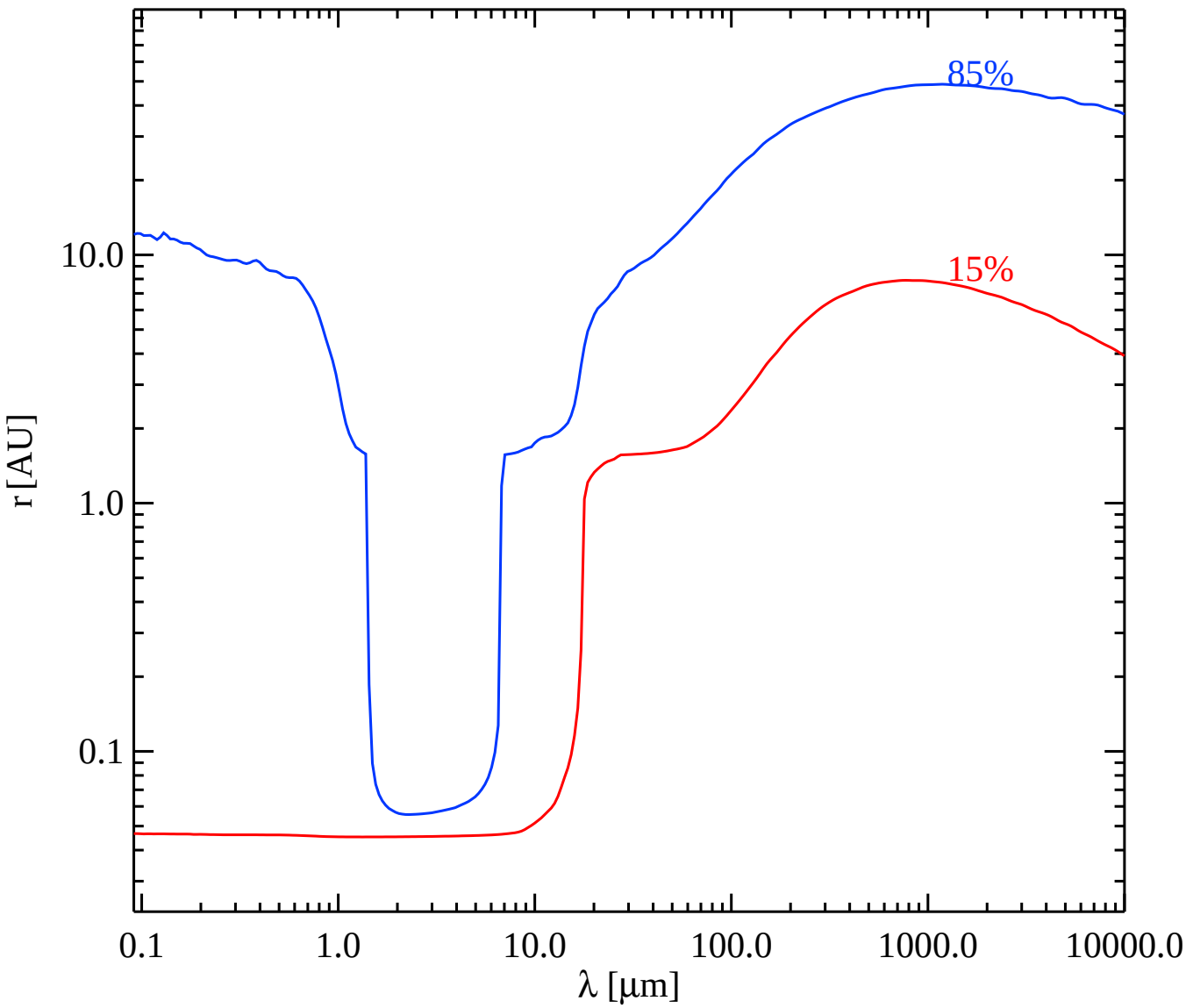

1.0
1.5
2.0
2.5
3.0
log T dust [K]
0.30
0.25
0.20
0.15
0.10
0.05
0.00
z / r
0.1
1.0
10.0
100.0
r [AU]
1400K
700K
300K
100K
40K
20K
1400K
700K
300K
100K
1
10
1

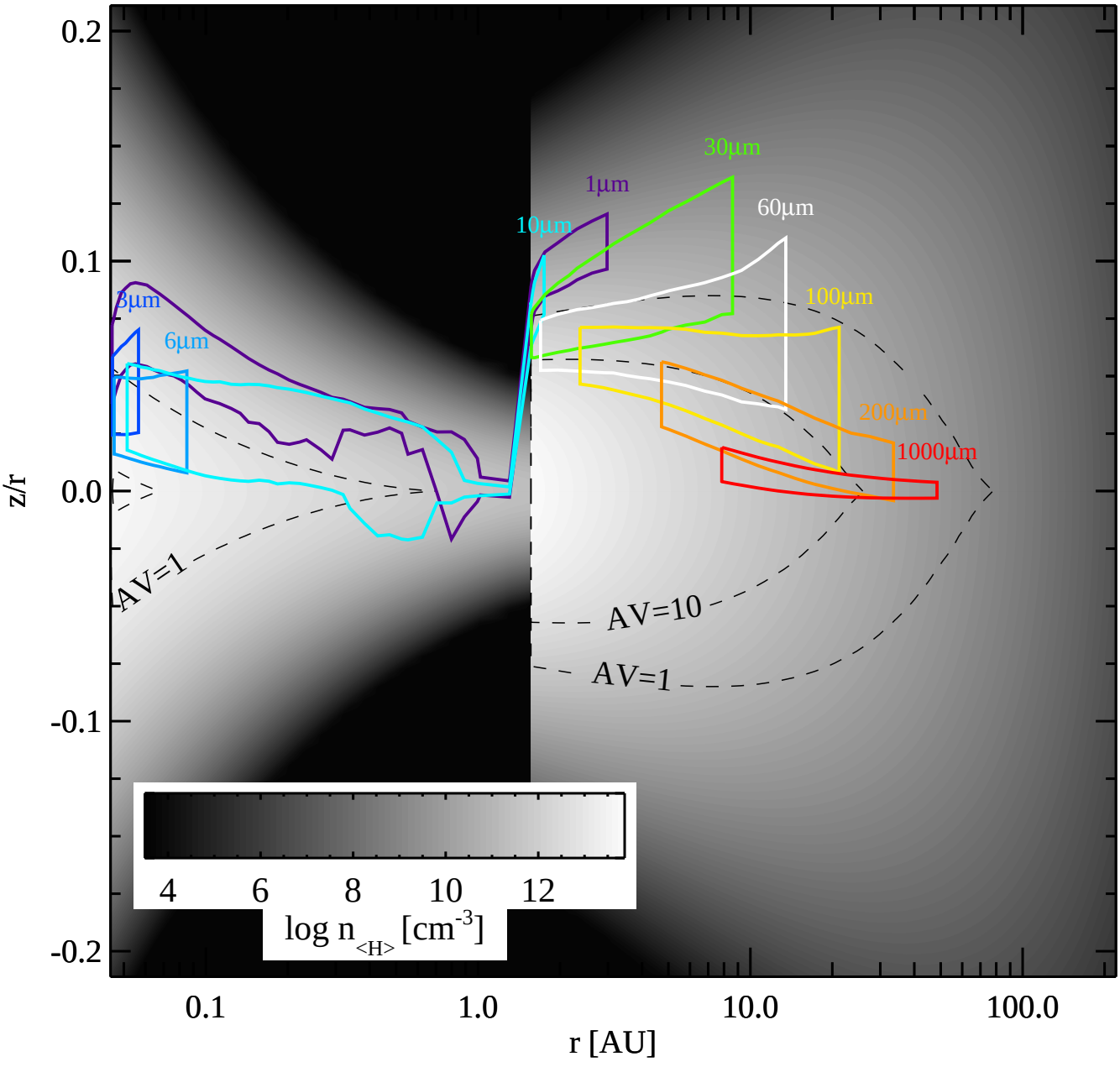

fitting Tdust ~ r^-q
1000
100
10
T dust [K]
0.1
1.0
10.0
100.0
r [AU]
z/r=0.28: q= 0.362 +/- 0.000
z/r=0.12: q= 0.404 +/- 0.005
z/r=0.00: q= 0.580 +/- 0.007

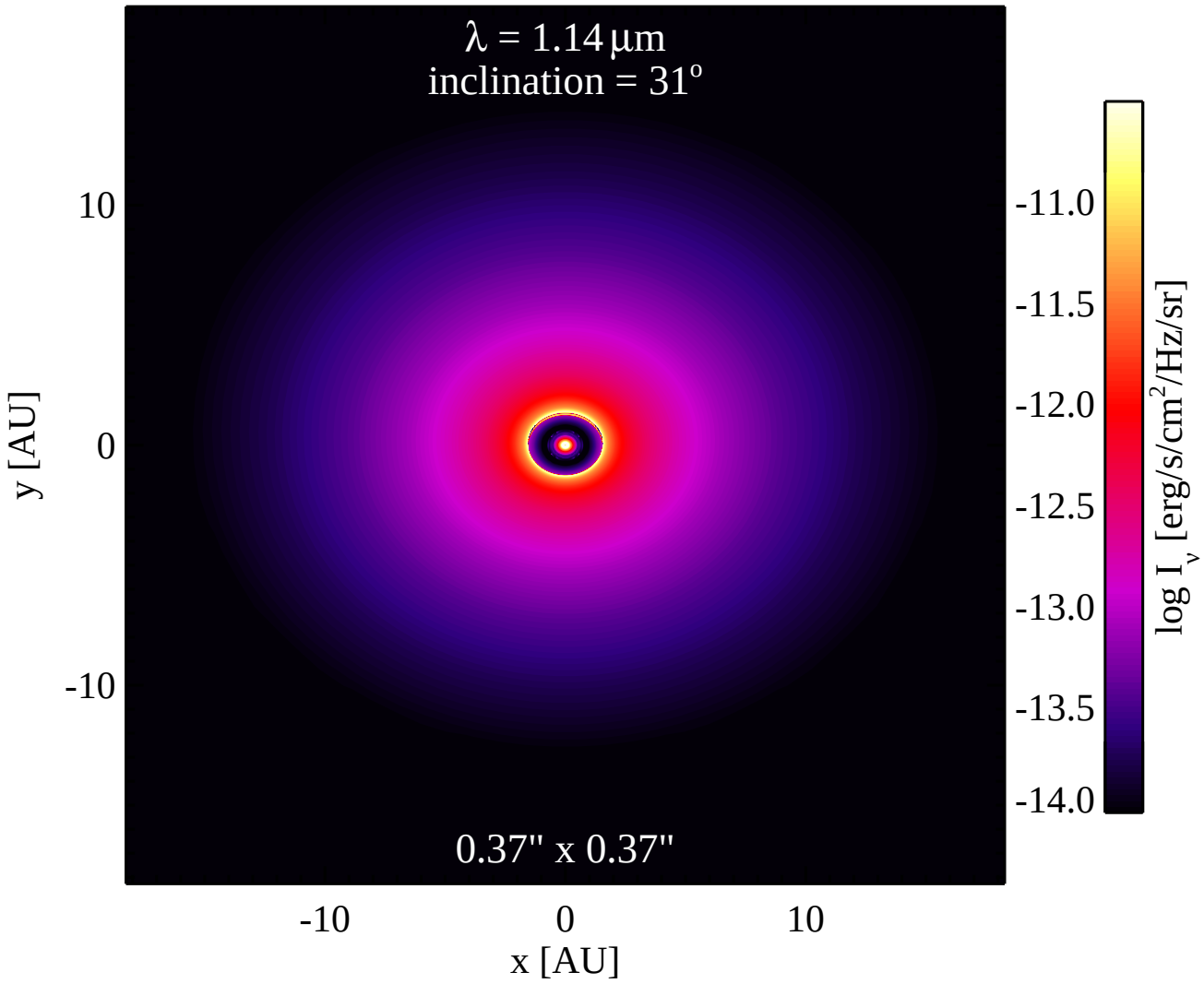

κ [cm²/g(dust)]
100
10
1
0.1
1.0
10.0
100.0
1000.0
λ [μm]
λ^-1
κ sca
κ abs
ProDiMo

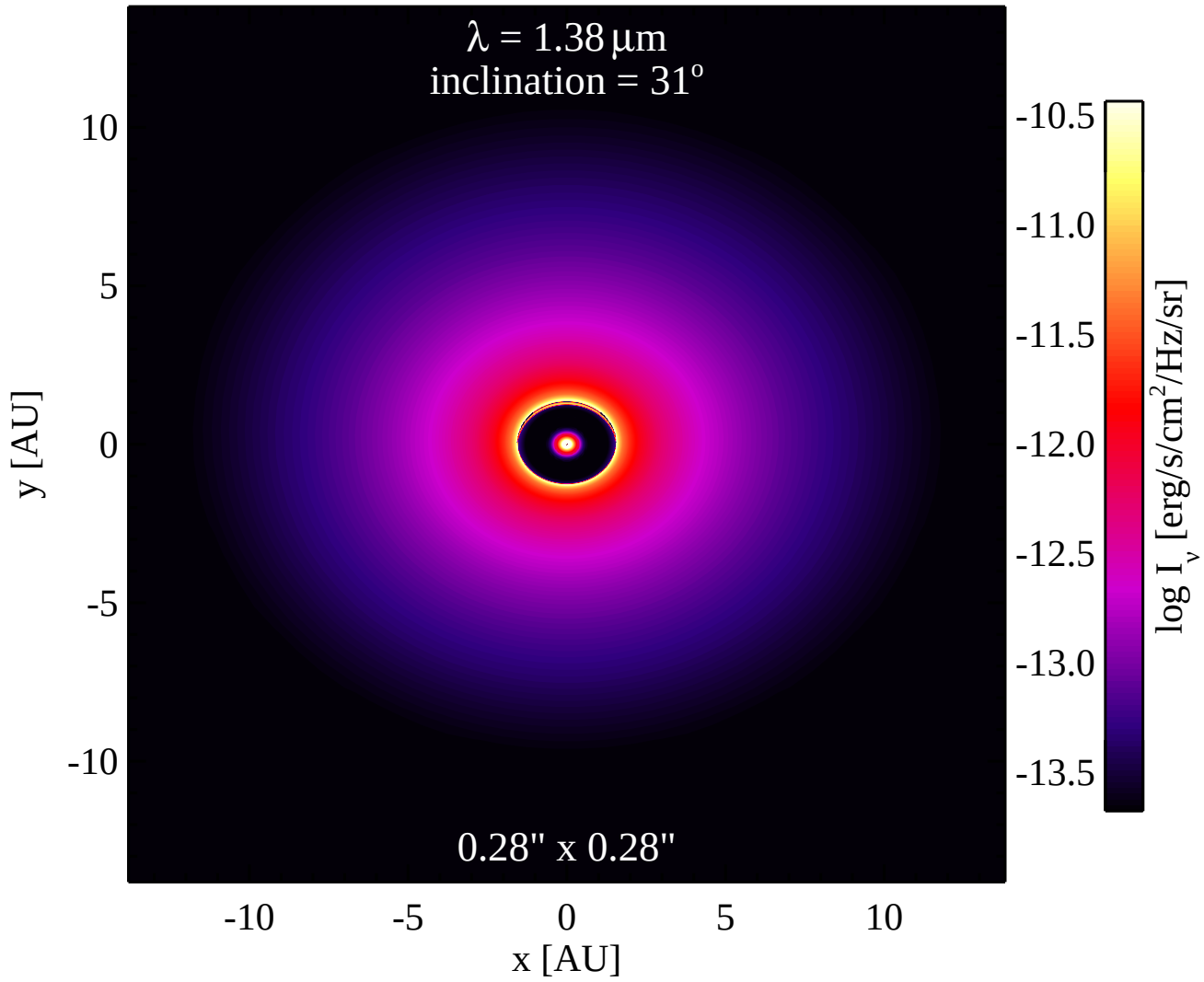

log ν F_ν [erg/cm²/s]
-10
-12
-14
-16
0.1
1.0
10.0
100.0
1000.0
10000.0
λ [μm]
dist = 98.9 pc, incl = 31°
star + UV
disk model
Spitzer IRS
PACSspec
SPIREspec

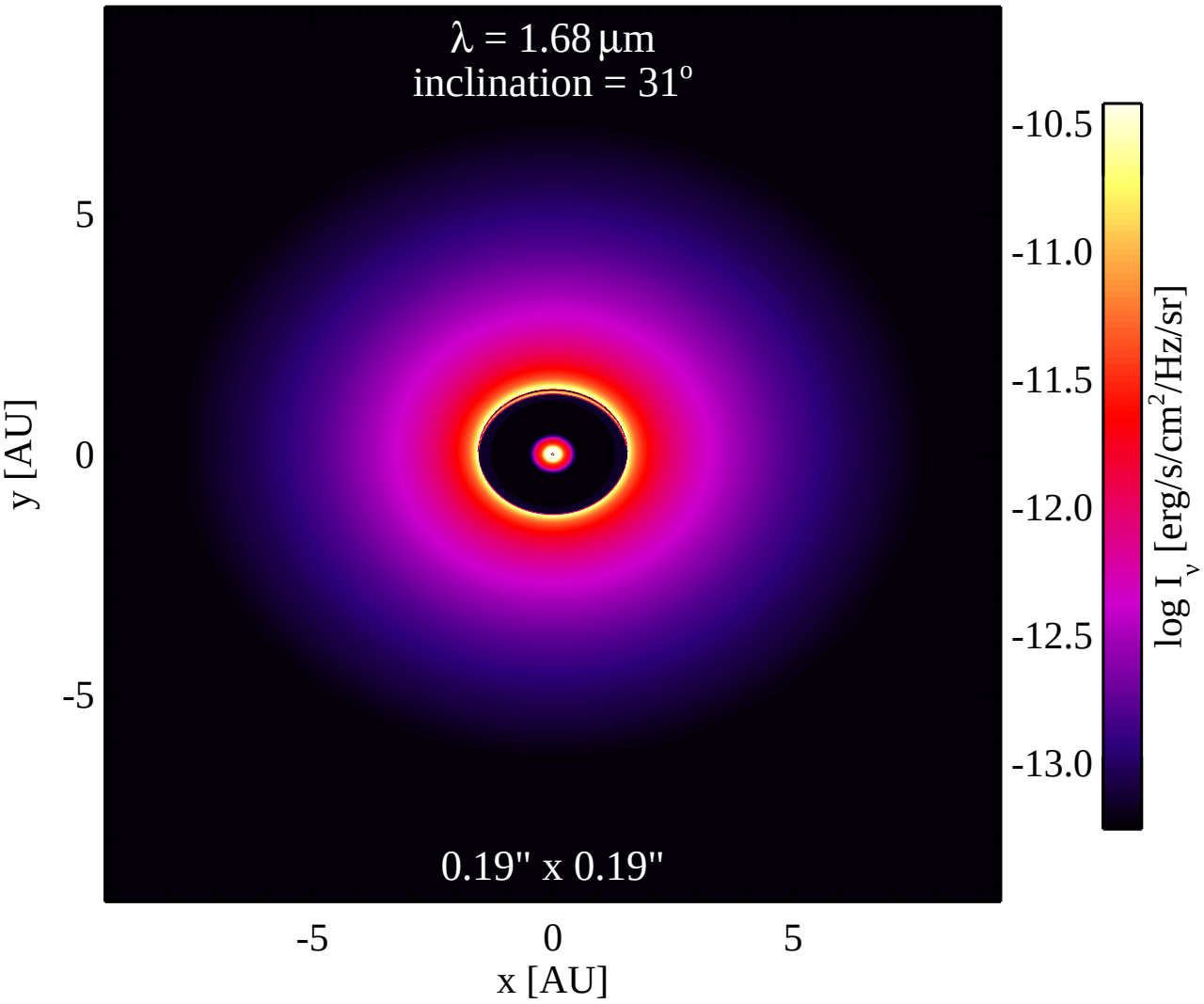

dist = 98.9 pc, incl = 31°
disk model
Spitzer IRS
1.2
1.0
0.8
0.6
0.4
0.2
F_ν [Jy]
4
6
8
10
12
14
λ [μm]

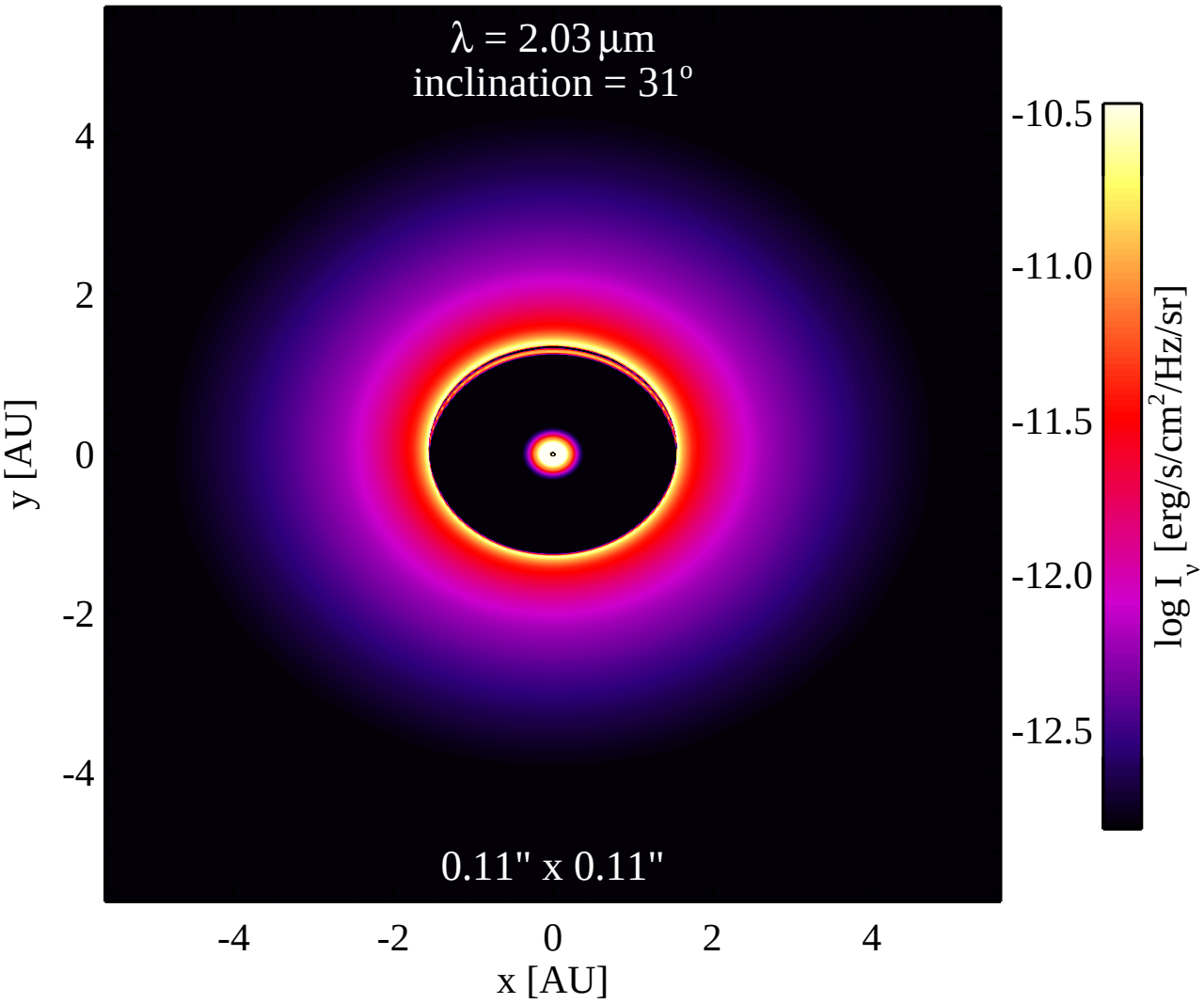

85%
15%
10.0
1.0
0.1
r [AU]
0.1
1.0
10.0
100.0
1000.0
10000.0
λ [μm]

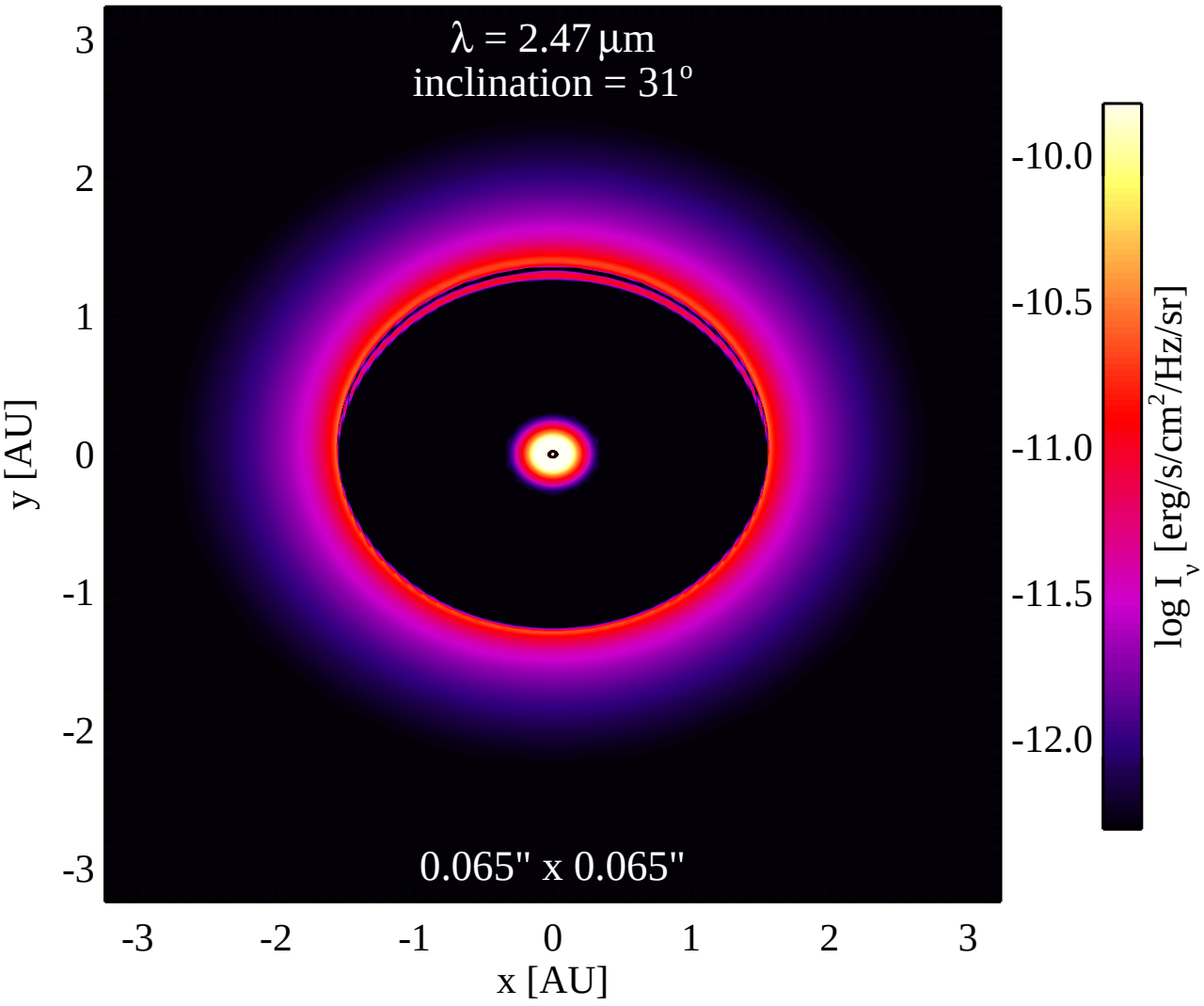

0.2
0.1
0.0
-0.1
-0.2
z/r
0.1
1.0
10.0
100.0
r [AU]
3µm
6µm
1µm
10µm
30µm
60µm
100µm
200µm
1000µm
AV=1
AV=10
AV=1
4
6
8
10
12
log n<H> [cm-3]

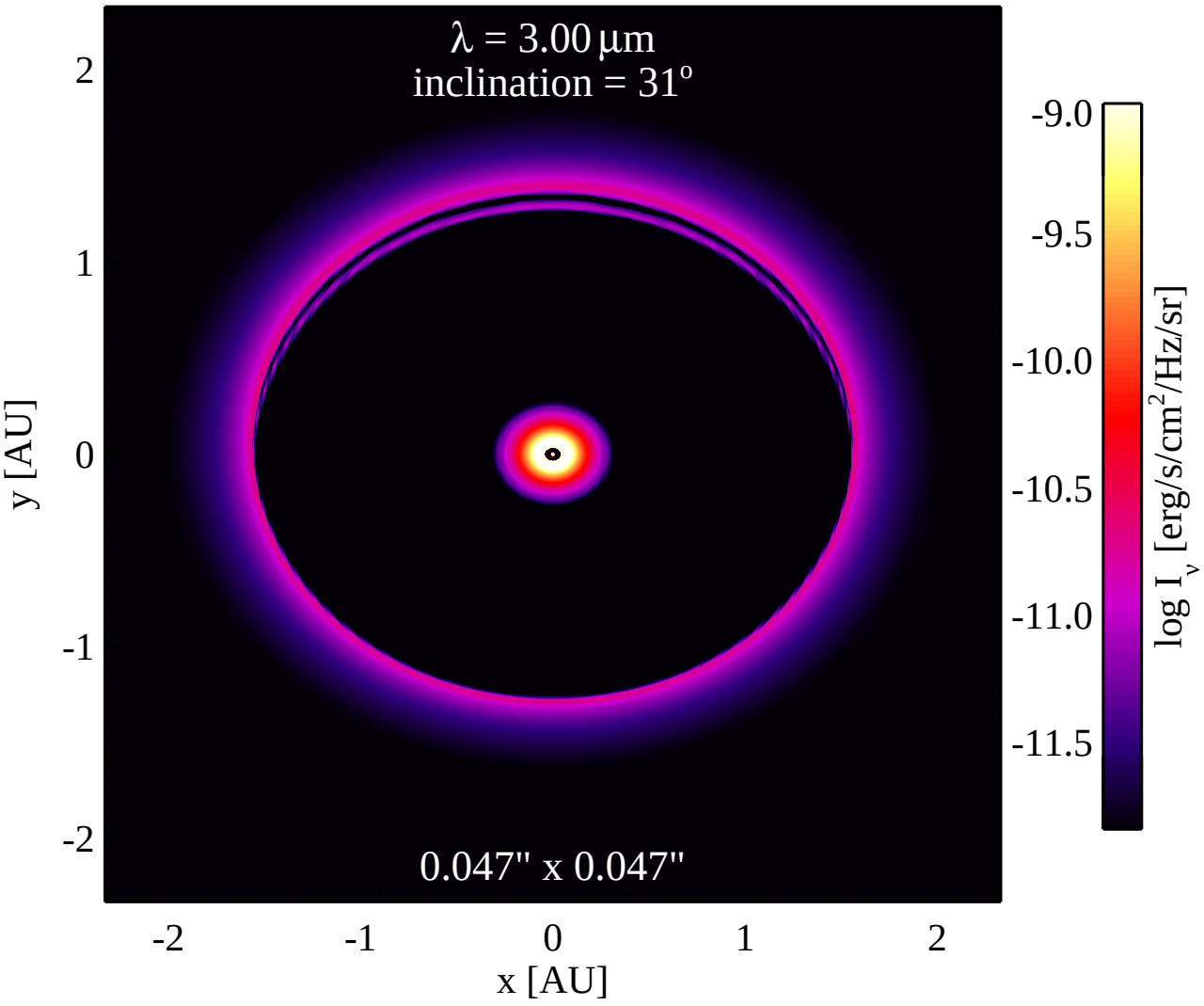

λ = 1.14 μm
inclination = 31°
0.37" x 0.37"
10
0
-10
y [AU]
-10
0
10
x [AU]
-11.0
-11.5
-12.0
-12.5
-13.0
-13.5
-14.0
log I_ν [erg/s/cm²/Hz/sr]

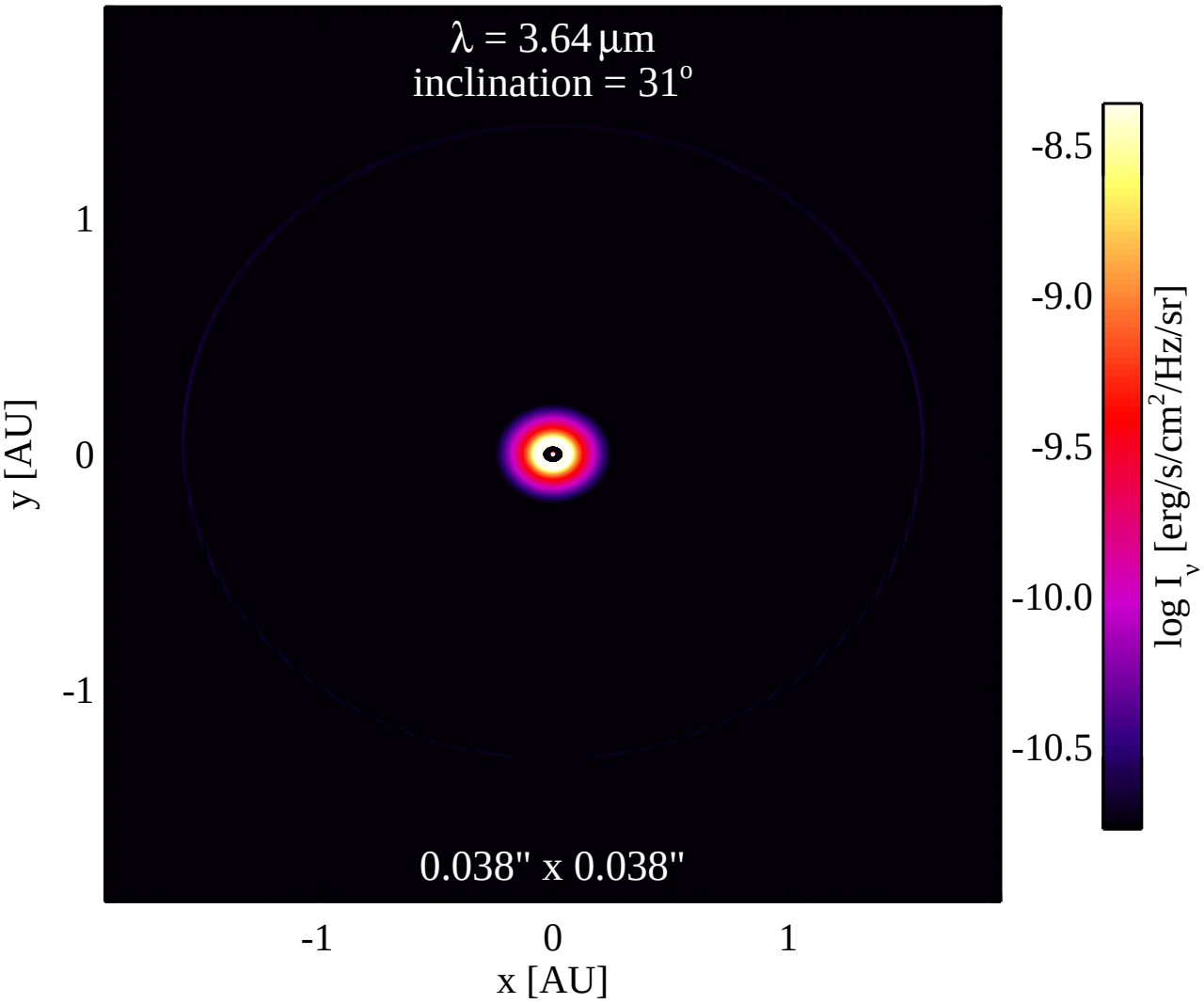

λ = 1.38 μm
inclination = 31°
0.28" x 0.28"
10
5
0
-5
-10
y [AU]
-10
-5
0
5
10
x [AU]
-10.5
-11.0
-11.5
-12.0
-12.5
-13.0
-13.5
log I_ν [erg/s/cm²/Hz/sr]

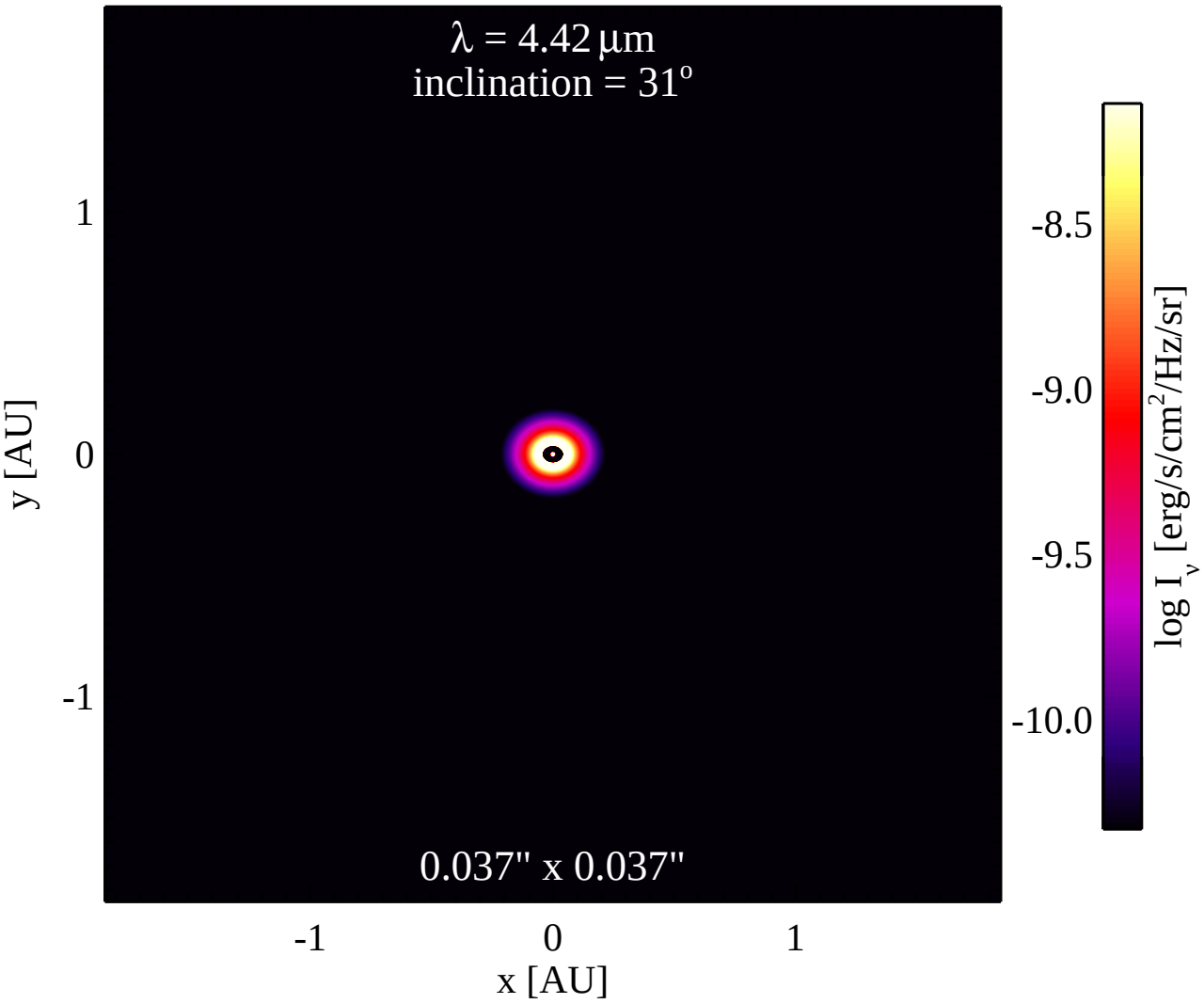

λ = 1.68 μm
inclination = 31°
0.19" x 0.19"
y [AU]
5
0
-5
-5
0
5
x [AU]
-10.5
-11.0
-11.5
-12.0
-12.5
-13.0
log I_ν [erg/s/cm²/Hz/sr]

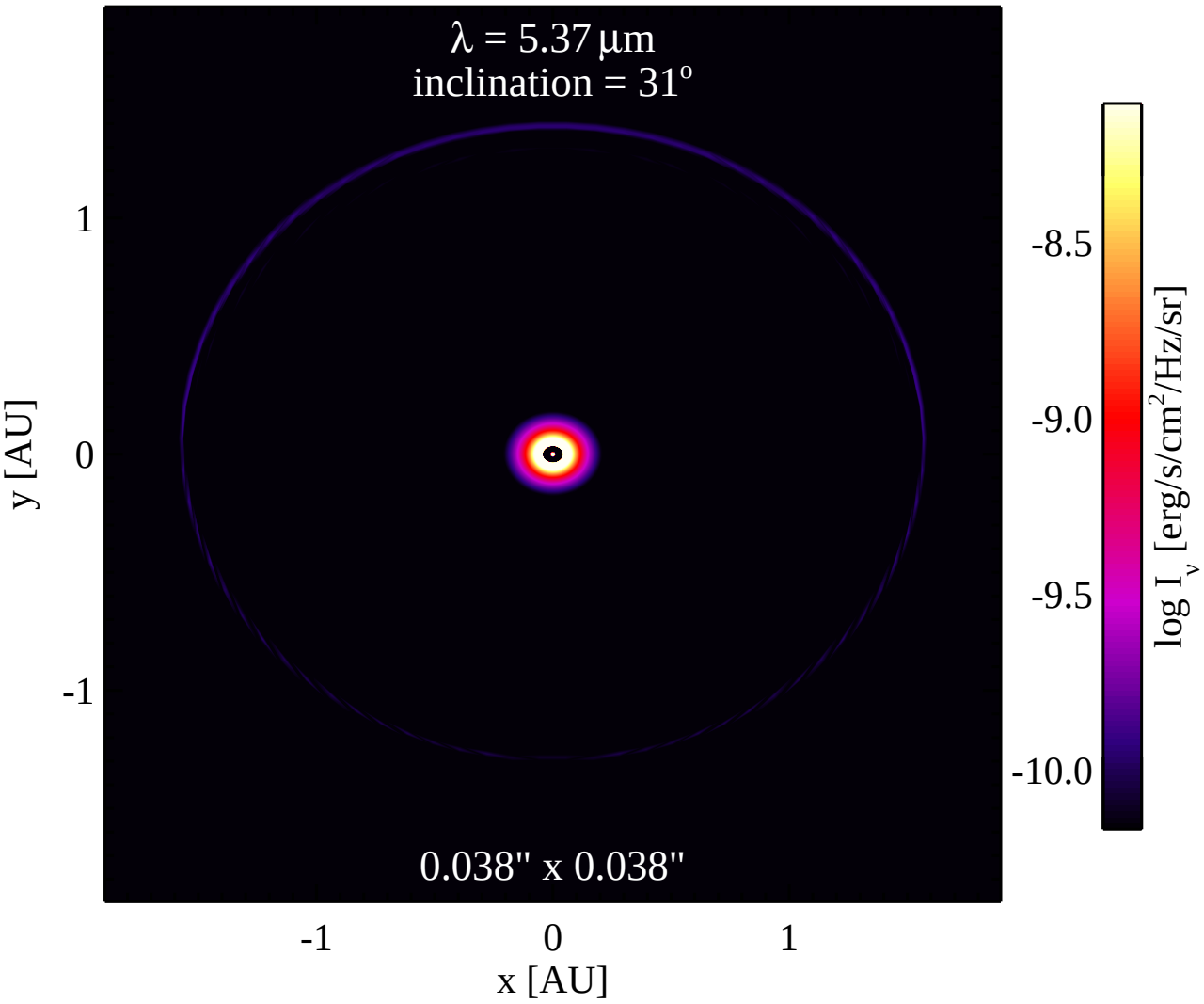

λ = 2.03 μm
inclination = 31°
0.11" x 0.11"
y [AU]
x [AU]
4
2
0
-2
-4
-4
-2
0
2
4
-10.5
-11.0
-11.5
-12.0
-12.5
log I_ν [erg/s/cm²/Hz/sr]

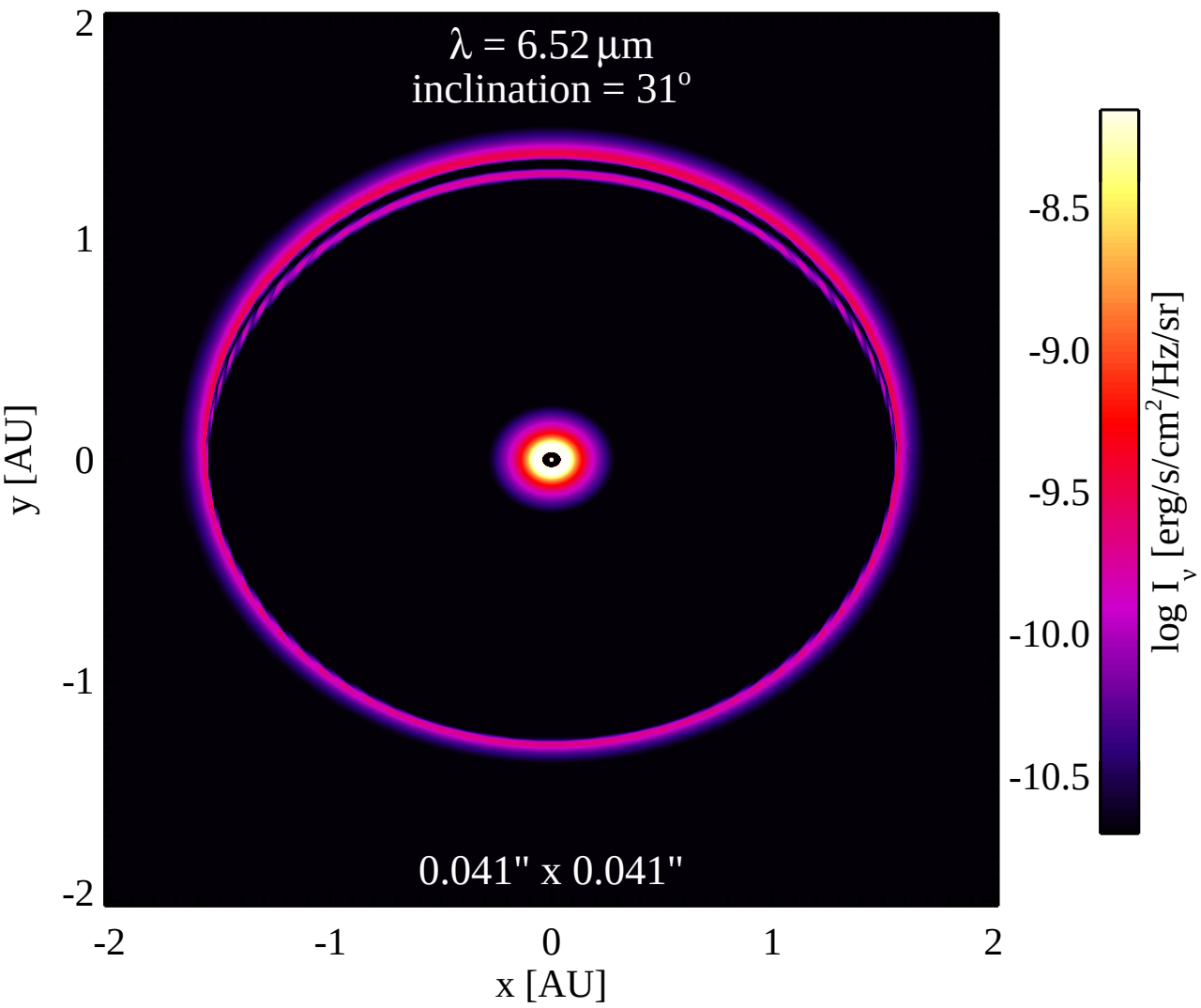

λ = 2.47 μm
inclination = 31°
0.065" x 0.065"
3
2
1
0
-1
-2
-3
y [AU]
-3
-2
-1
0
1
2
3
x [AU]
-10.0
-10.5
-11.0
-11.5
-12.0
log I_ν [erg/s/cm²/Hz/sr]

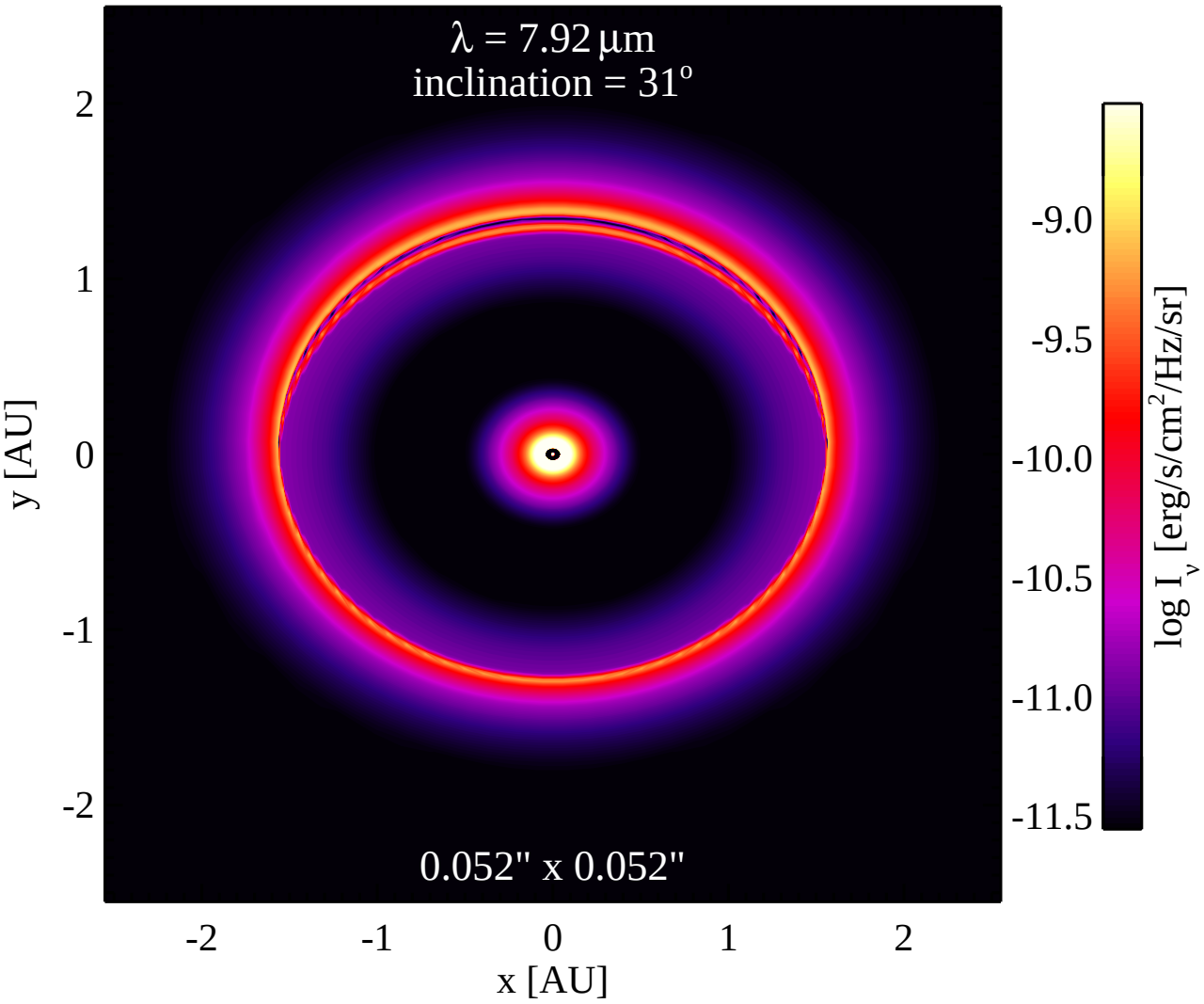

λ = 3.00 μm
inclination = 31°
0.047" x 0.047"
2
1
0
-1
-2
y [AU]
-2
-1
0
1
2
x [AU]
-9.0
-9.5
-10.0
-10.5
-11.0
-11.5
log I_ν [erg/s/cm²/Hz/sr]

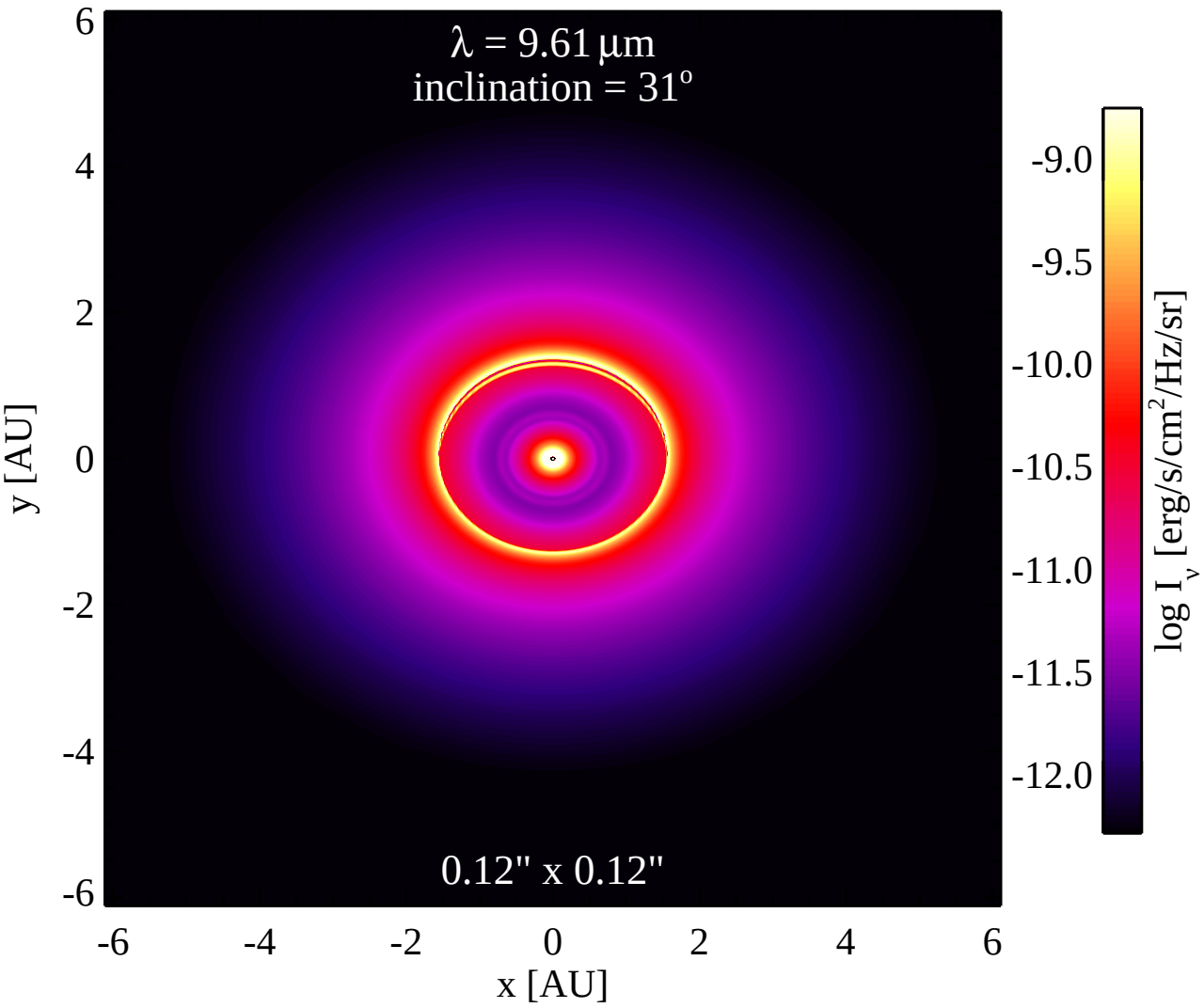

λ = 3.64 μm
inclination = 31°
0.038" x 0.038"
y [AU]
1
0
-1
x [AU]
-1
0
1
log I_ν [erg/s/cm²/Hz/sr]
-8.5
-9.0
-9.5
-10.0
-10.5

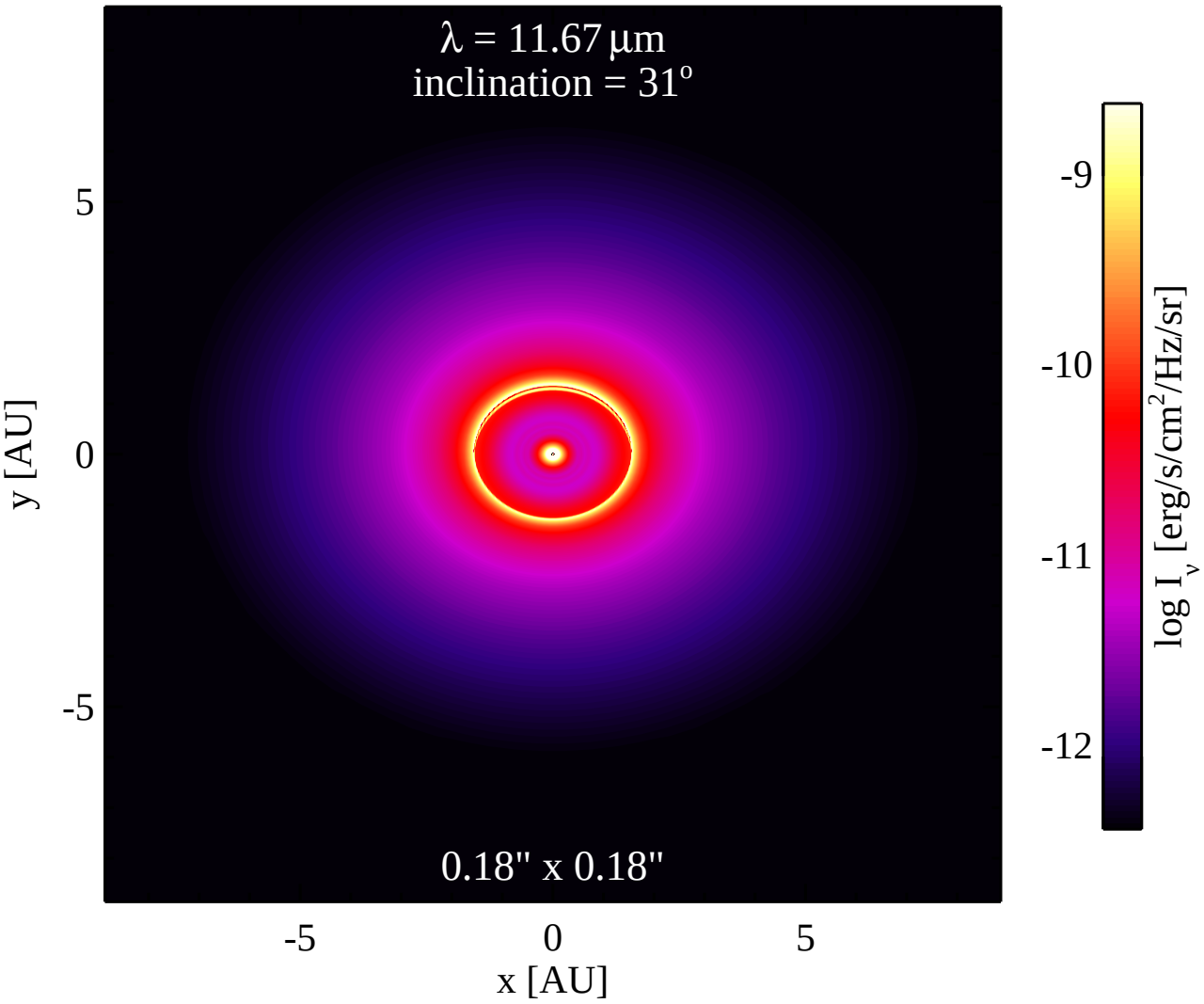

λ = 4.42 μm
inclination = 31°
0.037" x 0.037"
1
0
-1
y [AU]
-1
0
1
x [AU]
-8.5
-9.0
-9.5
-10.0
log I_ν [erg/s/cm²/Hz/sr]

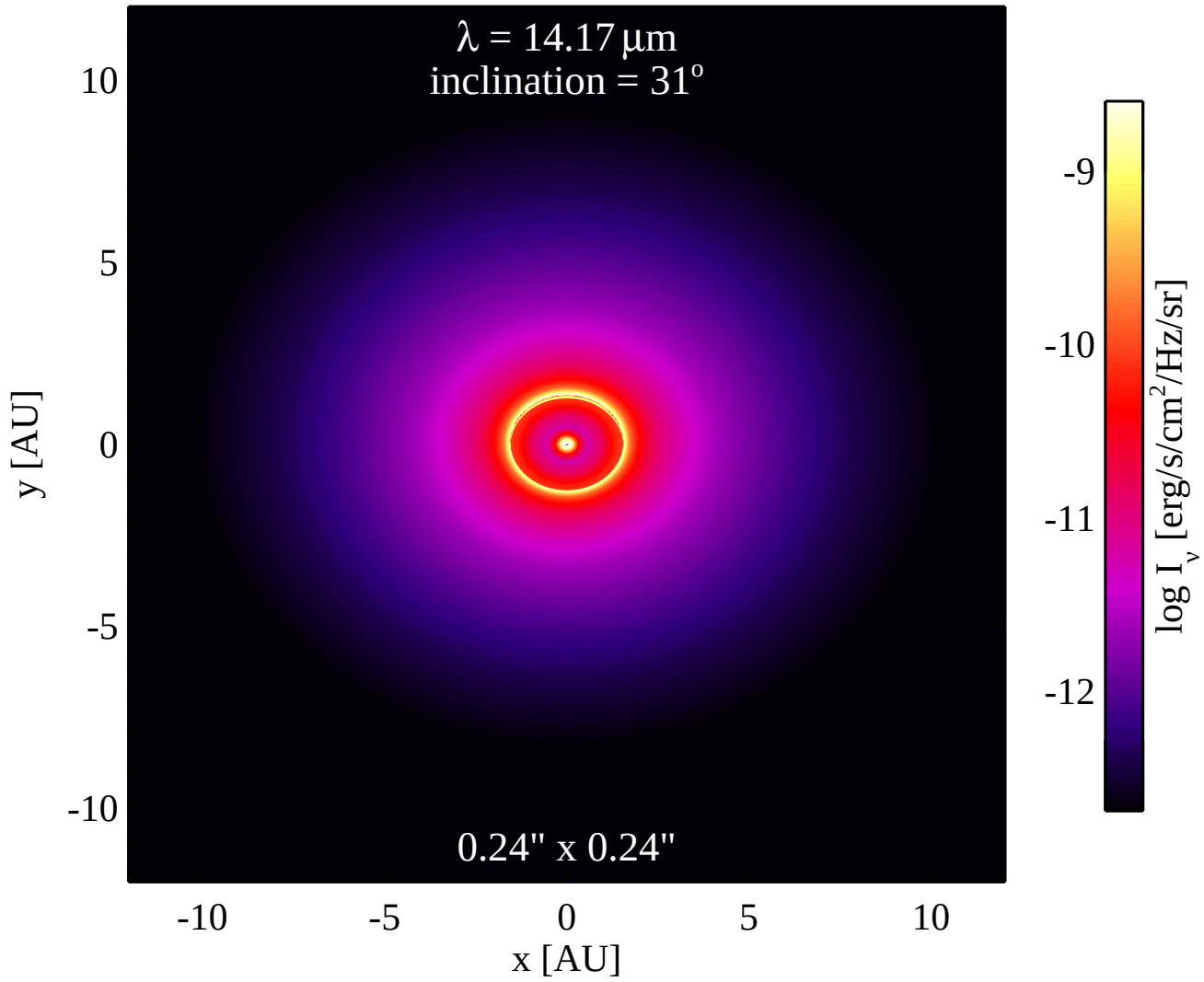

λ = 5.37 μm
inclination = 31°
0.038" x 0.038"
1
0
-1
y [AU]
-1
0
1
x [AU]
-8.5
-9.0
-9.5
-10.0
log I_ν [erg/s/cm²/Hz/sr]

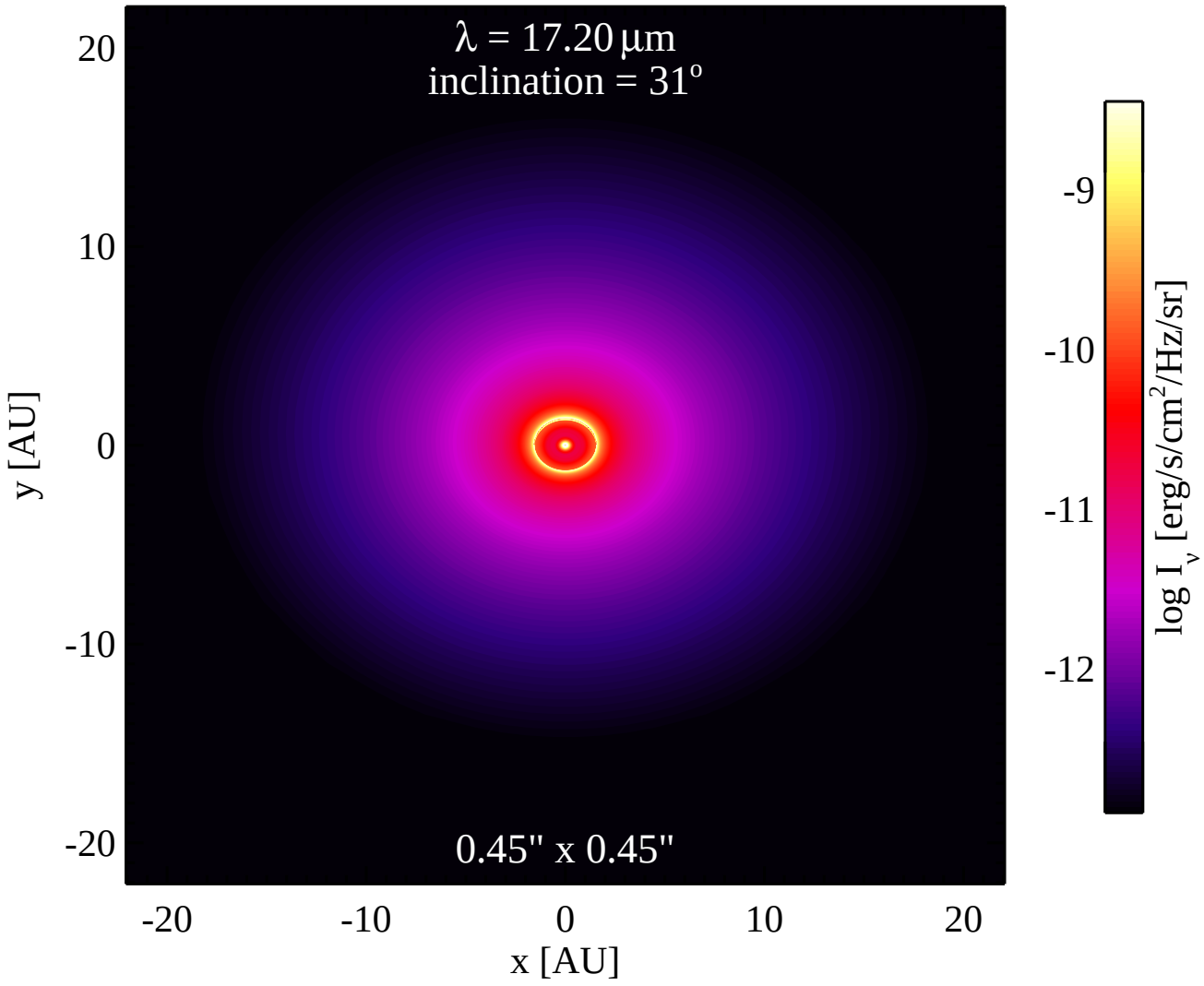

λ = 6.52 μm
inclination = 31°
0.041" x 0.041"
2
1
0
-1
-2
y [AU]
-2
-1
0
1
2
x [AU]
-8.5
-9.0
-9.5
-10.0
-10.5
log I_ν [erg/s/cm²/Hz/sr]

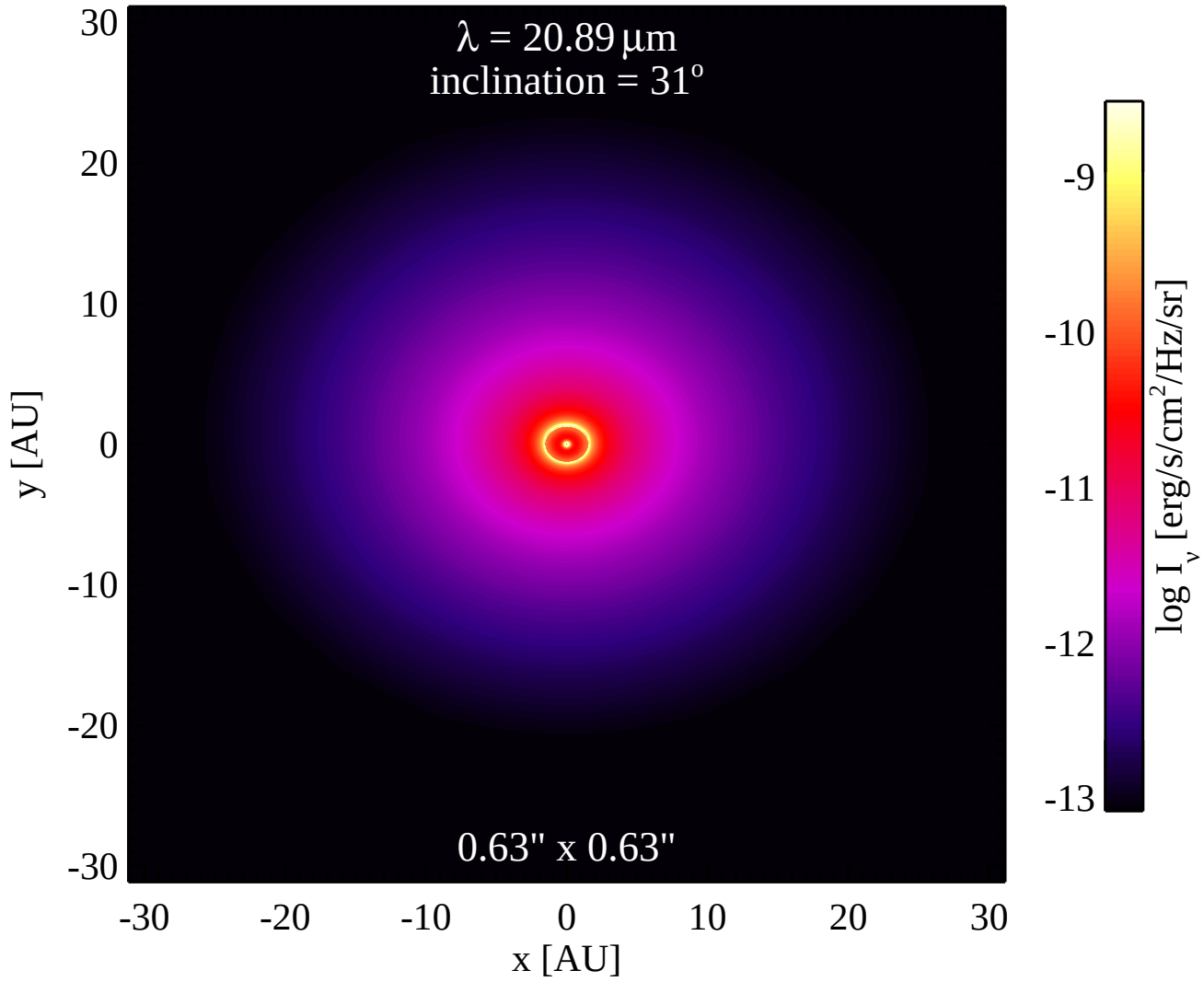

λ = 7.92 μm
inclination = 31°
0.052" x 0.052"
2
1
0
-1
-2
y [AU]
-2
-1
0
1
2
x [AU]
-9.0
-9.5
-10.0
-10.5
-11.0
-11.5
log I_ν [erg/s/cm²/Hz/sr]

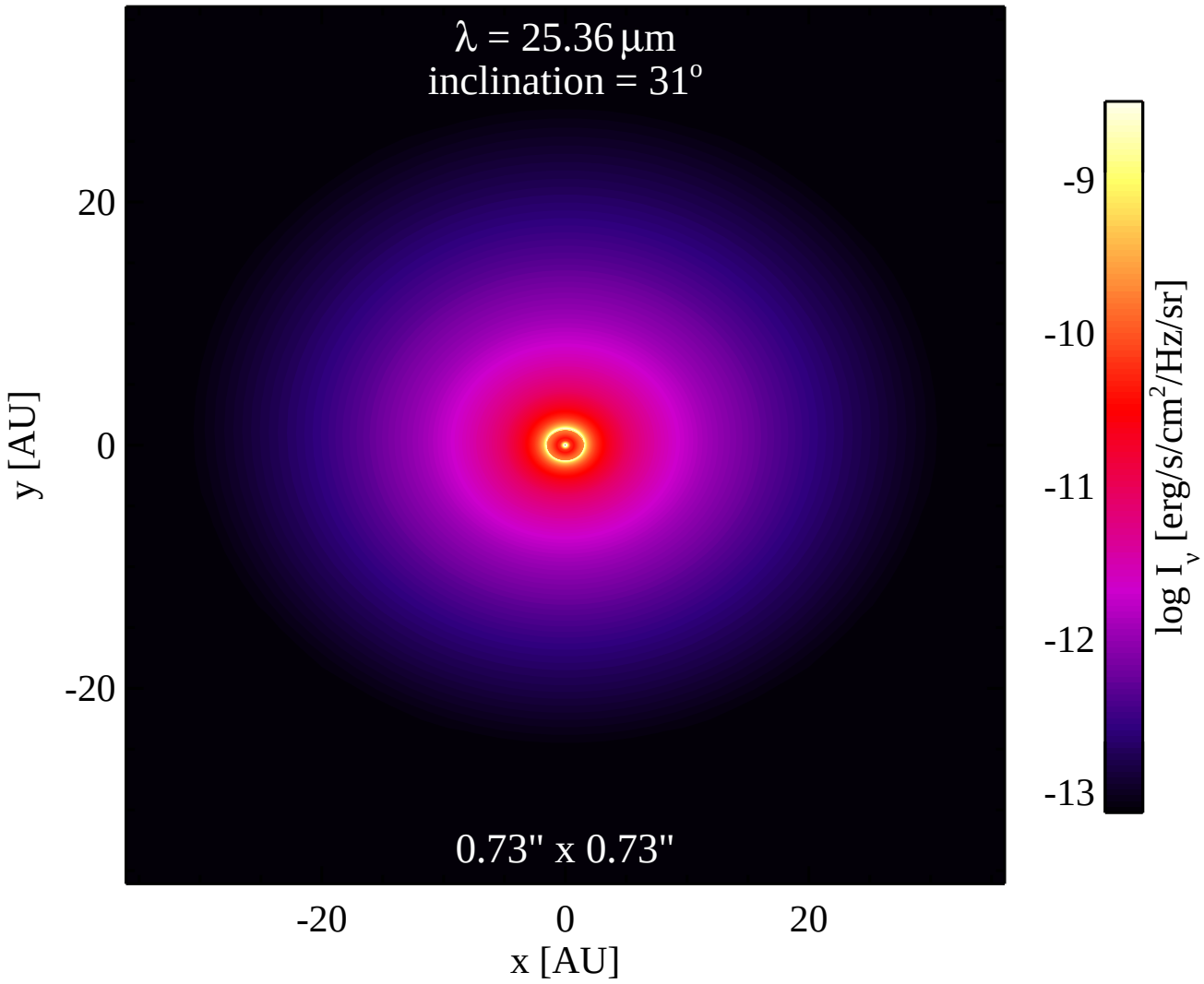

λ = 9.61 μm
inclination = 31°
0.12" x 0.12"
y [AU]
x [AU]
6
4
2
0
-2
-4
-6
-6
-4
-2
0
2
4
6
-9.0
-9.5
-10.0
-10.5
-11.0
-11.5
-12.0
log I_ν [erg/s/cm²/Hz/sr]

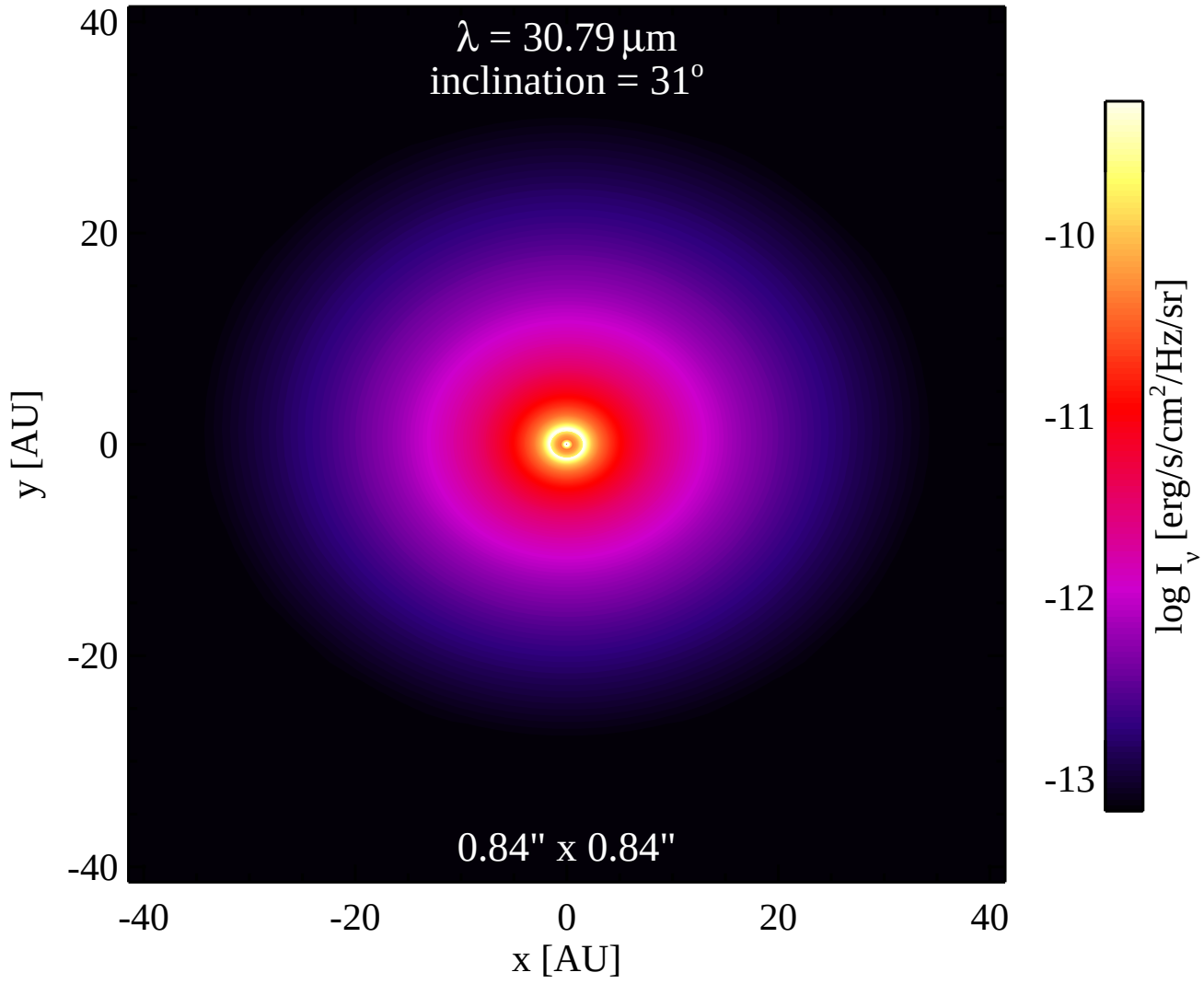

λ = 11.67 μm
inclination = 31°
0.18" x 0.18"
y [AU]
5
0
-5
-5
0
5
x [AU]
-9
-10
-11
-12
log I_ν [erg/s/cm²/Hz/sr]

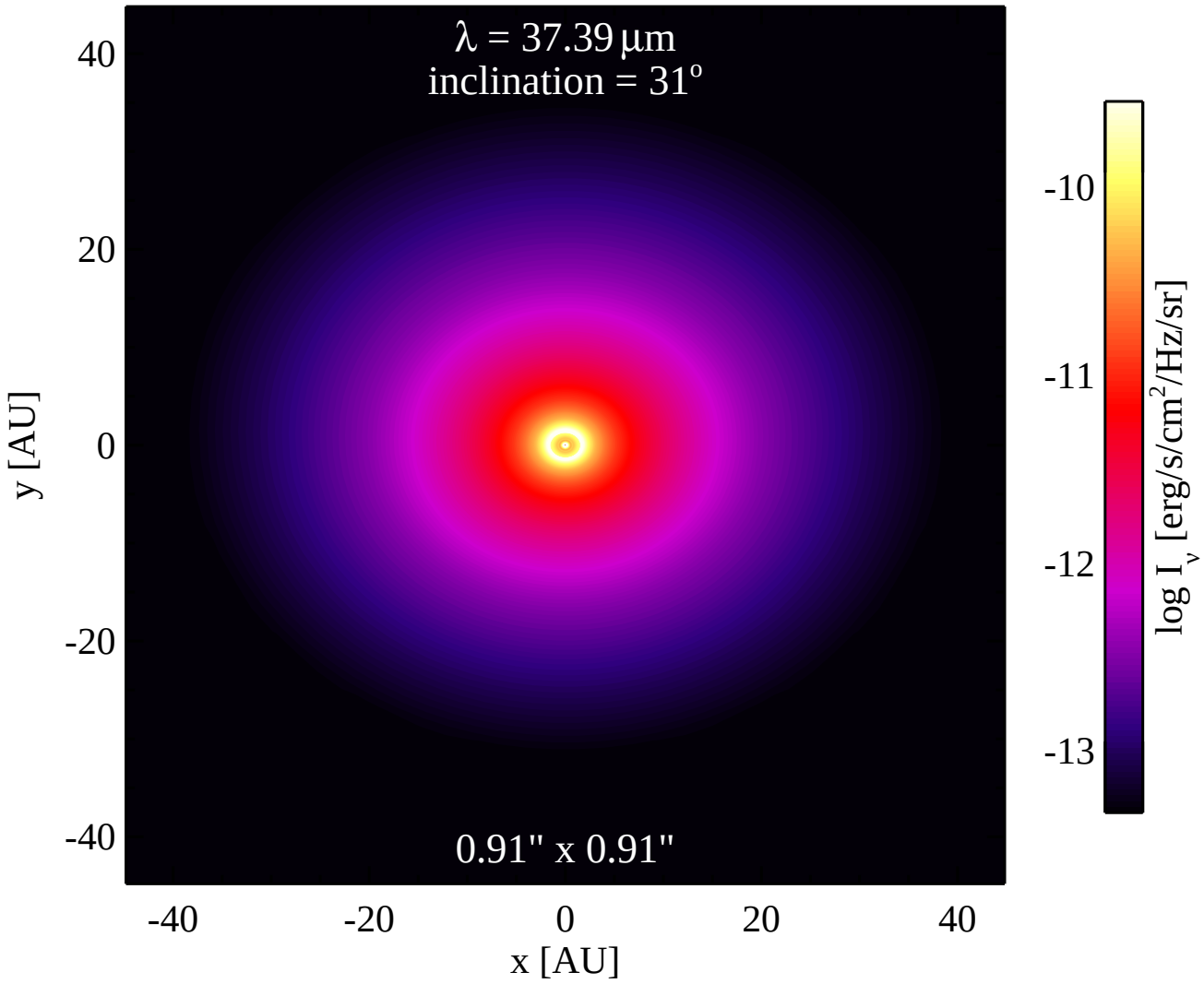

λ = 14.17 μm
inclination = 31°
0.24" x 0.24"
10
5
0
-5
-10
y [AU]
-10
-5
0
5
10
x [AU]
-9
-10
-11
-12
log I_ν [erg/s/cm²/Hz/sr]

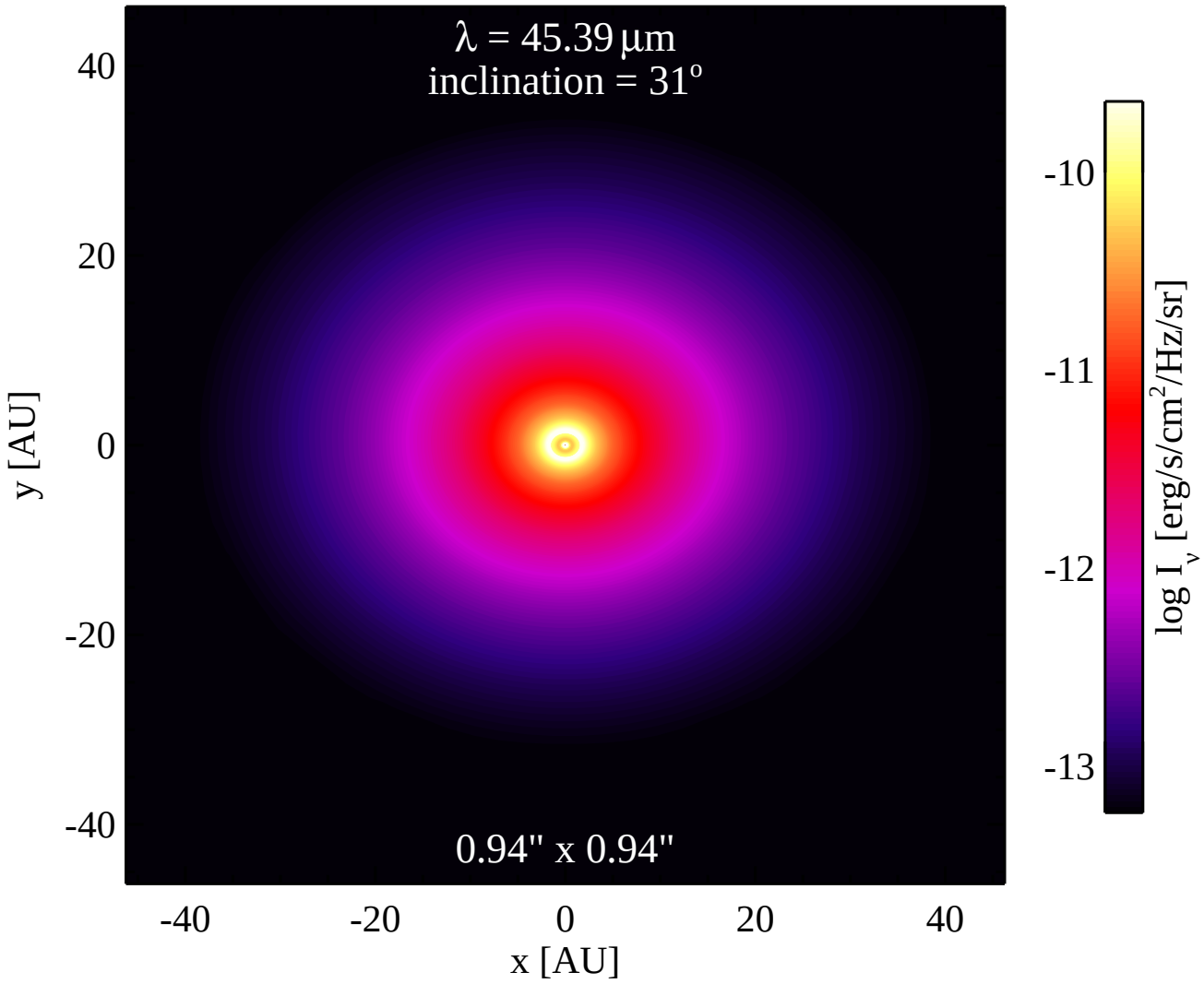

λ = 17.20 μm
inclination = 31°
0.45" x 0.45"
20
10
0
-10
-20
y [AU]
-20
-10
0
10
20
x [AU]
-9
-10
-11
-12
log I_ν [erg/s/cm²/Hz/sr]

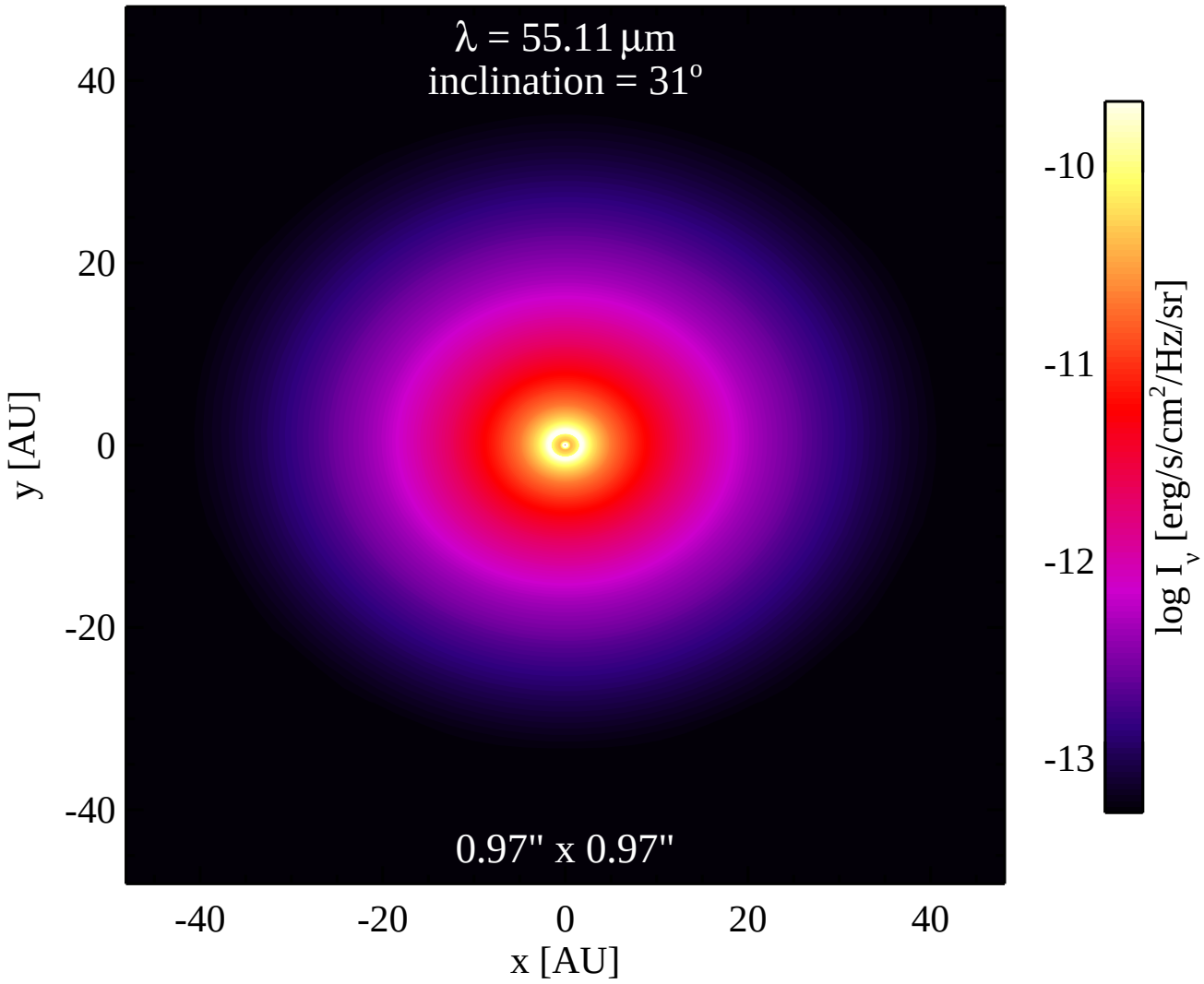

λ = 20.89 μm
inclination = 31°
0.63" x 0.63"
30
20
10
0
-10
-20
-30
y [AU]
-30
-20
-10
0
10
20
30
x [AU]
-9
-10
-11
-12
-13
log I_ν [erg/s/cm²/Hz/sr]

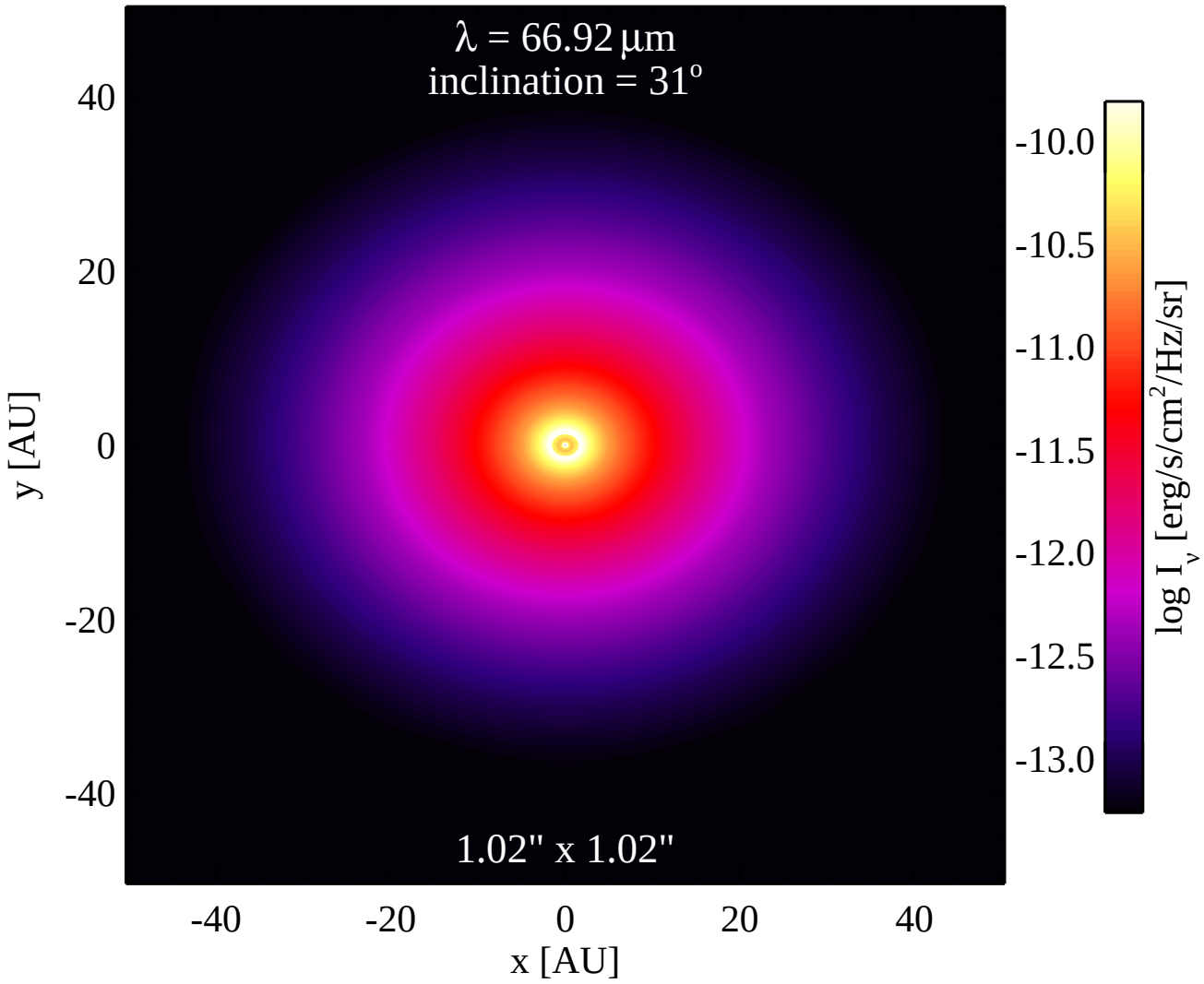

λ = 25.36 μm
inclination = 31°
0.73" x 0.73"
20
0
-20
y [AU]
-20
0
20
x [AU]
-9
-10
-11
-12
-13
log I_ν [erg/s/cm²/Hz/sr]

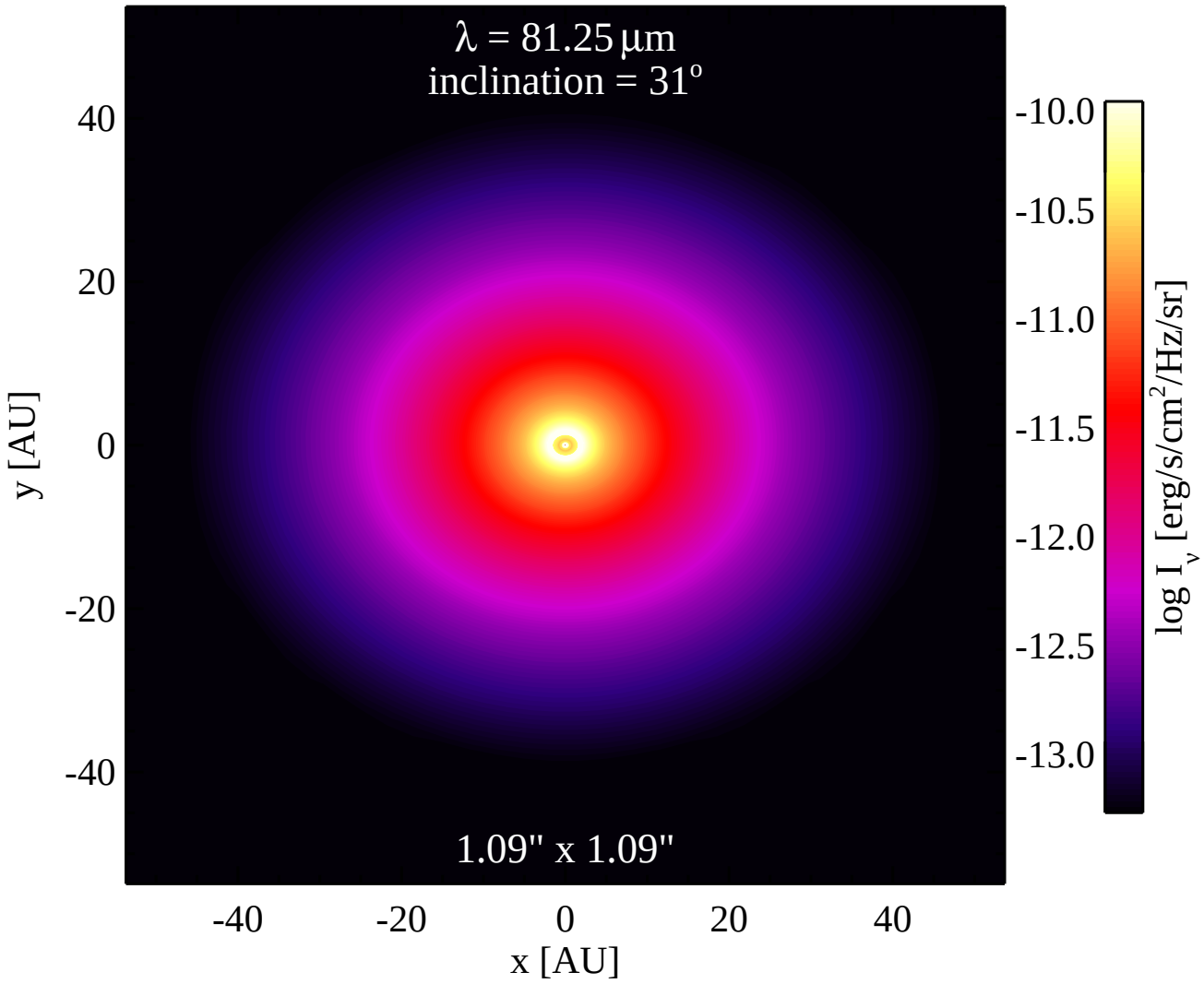

λ = 30.79 μm
inclination = 31°
0.84" x 0.84"
40
20
0
-20
-40
y [AU]
-40
-20
0
20
40
x [AU]
-10
-11
-12
-13
log I_ν [erg/s/cm²/Hz/sr]

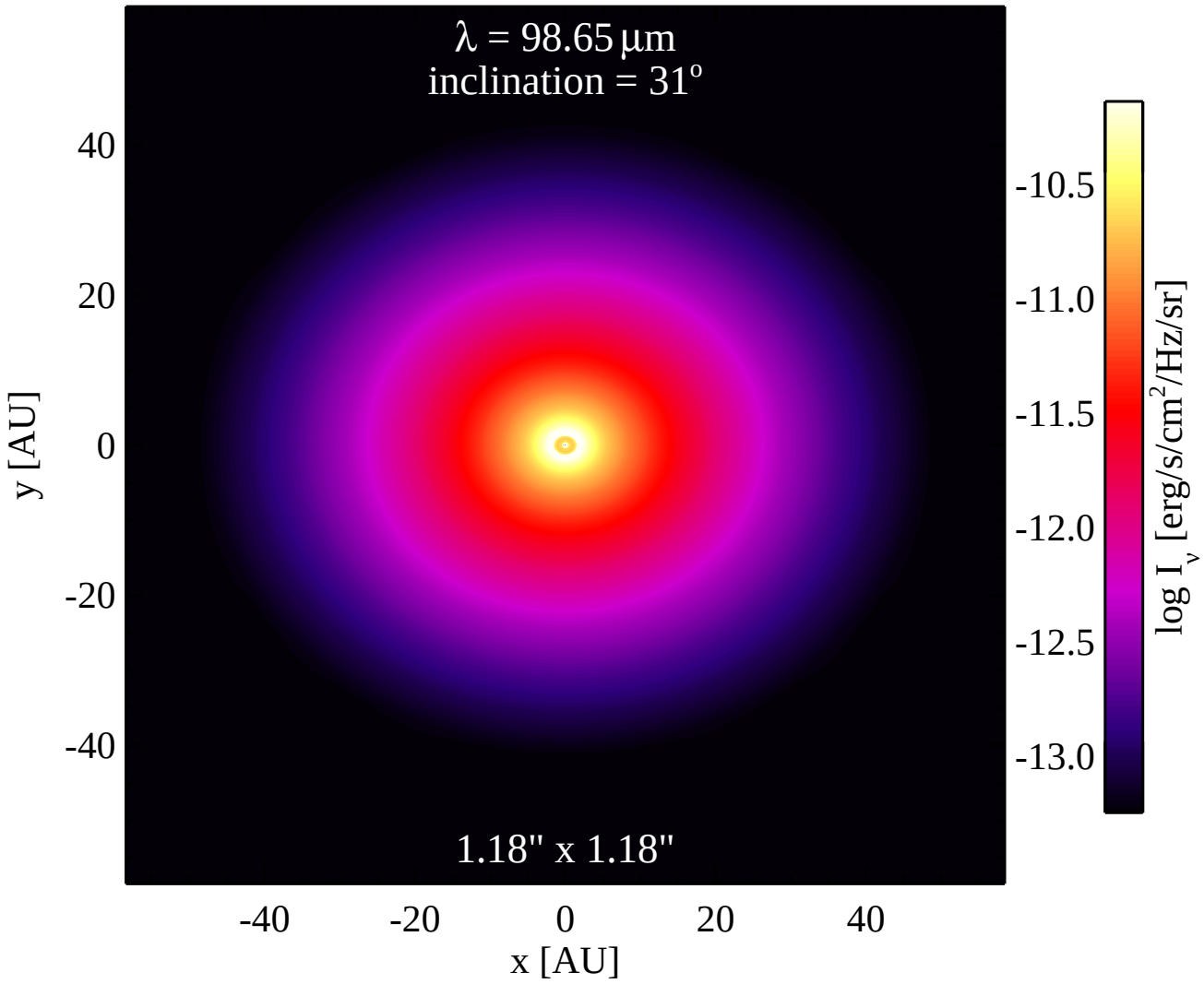

λ = 37.39 μm
inclination = 31°
0.91" x 0.91"
40
20
0
-20
-40
y [AU]
-40
-20
0
20
40
x [AU]
-10
-11
-12
-13
log I_ν [erg/s/cm²/Hz/sr]

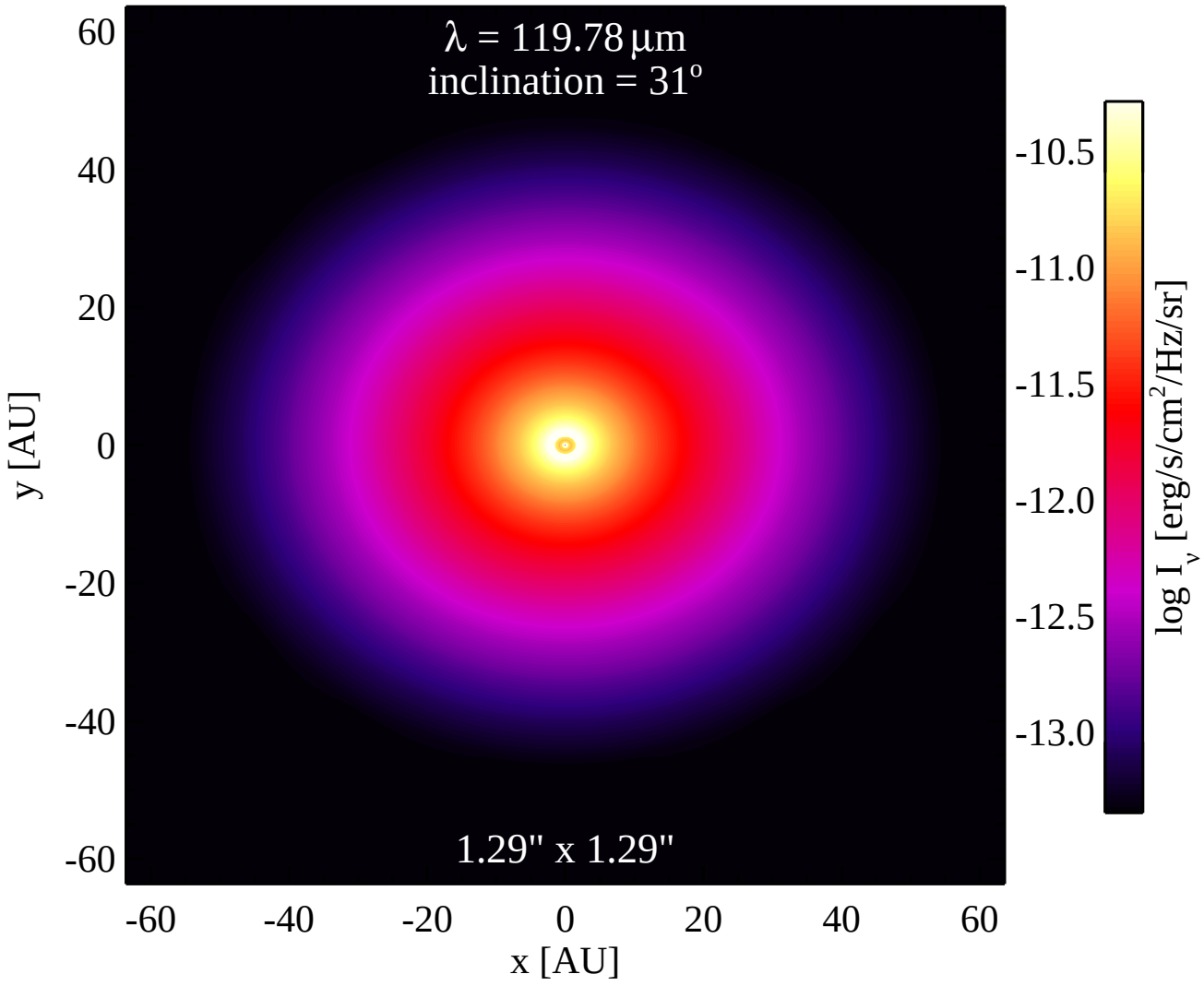

λ = 45.39 μm
inclination = 31°
0.94" x 0.94"
40
20
0
-20
-40
y [AU]
-40
-20
0
20
40
x [AU]
-10
-11
-12
-13
log I_ν [erg/s/cm²/Hz/sr]

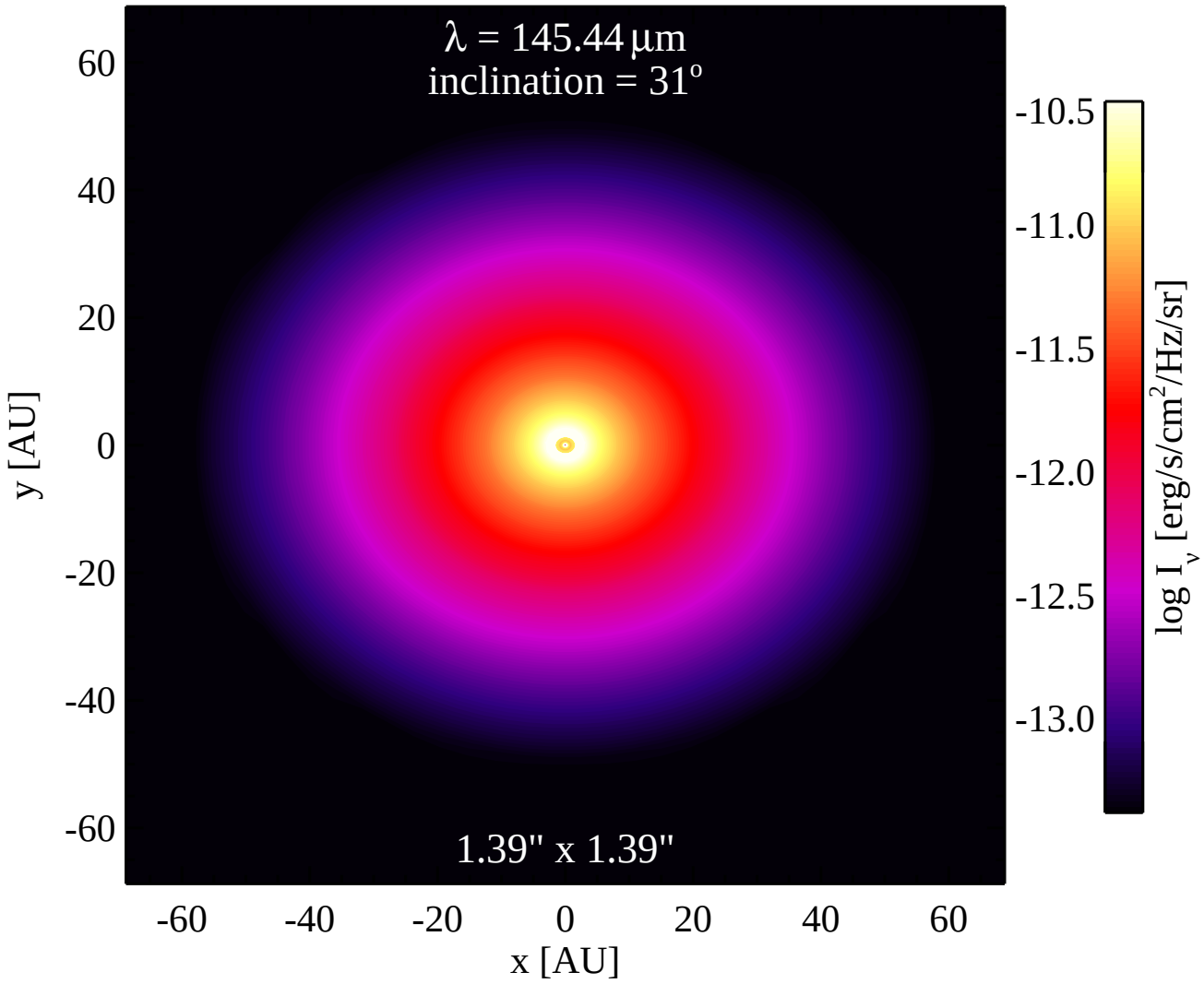

λ = 55.11 μm
inclination = 31°
0.97" x 0.97"
40
20
0
-20
-40
y [AU]
-40
-20
0
20
40
x [AU]
-10
-11
-12
-13
log I_ν [erg/s/cm²/Hz/sr]

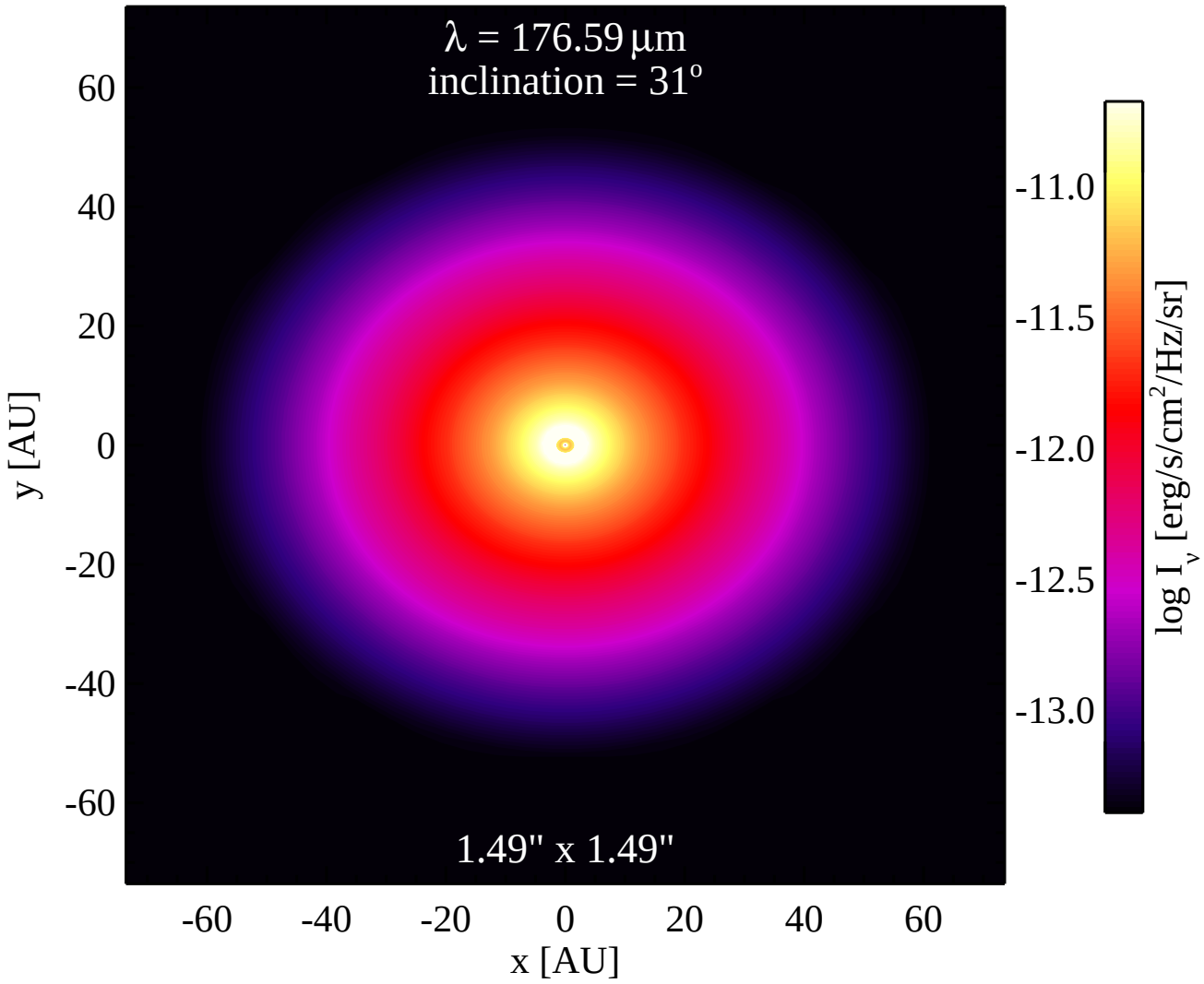

λ = 66.92 μm
inclination = 31°
1.02" x 1.02"
40
20
0
-20
-40
y [AU]
-40
-20
0
20
40
x [AU]
-10.0
-10.5
-11.0
-11.5
-12.0
-12.5
-13.0
log I_ν [erg/s/cm²/Hz/sr]

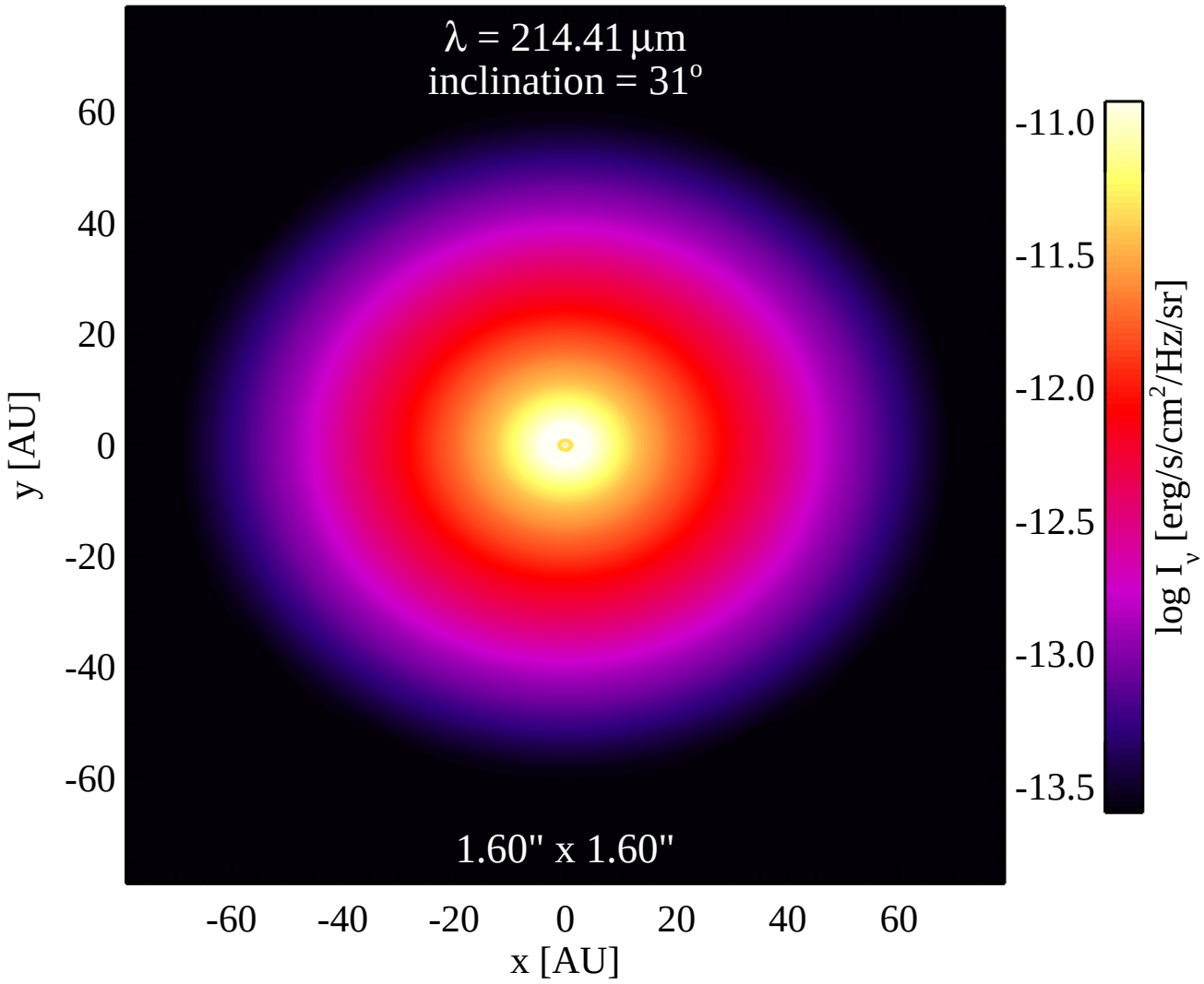

λ = 81.25 μm
inclination = 31°
1.09" x 1.09"
40
20
0
-20
-40
y [AU]
-40
-20
0
20
40
x [AU]
-10.0
-10.5
-11.0
-11.5
-12.0
-12.5
-13.0
log I_ν [erg/s/cm²/Hz/sr]

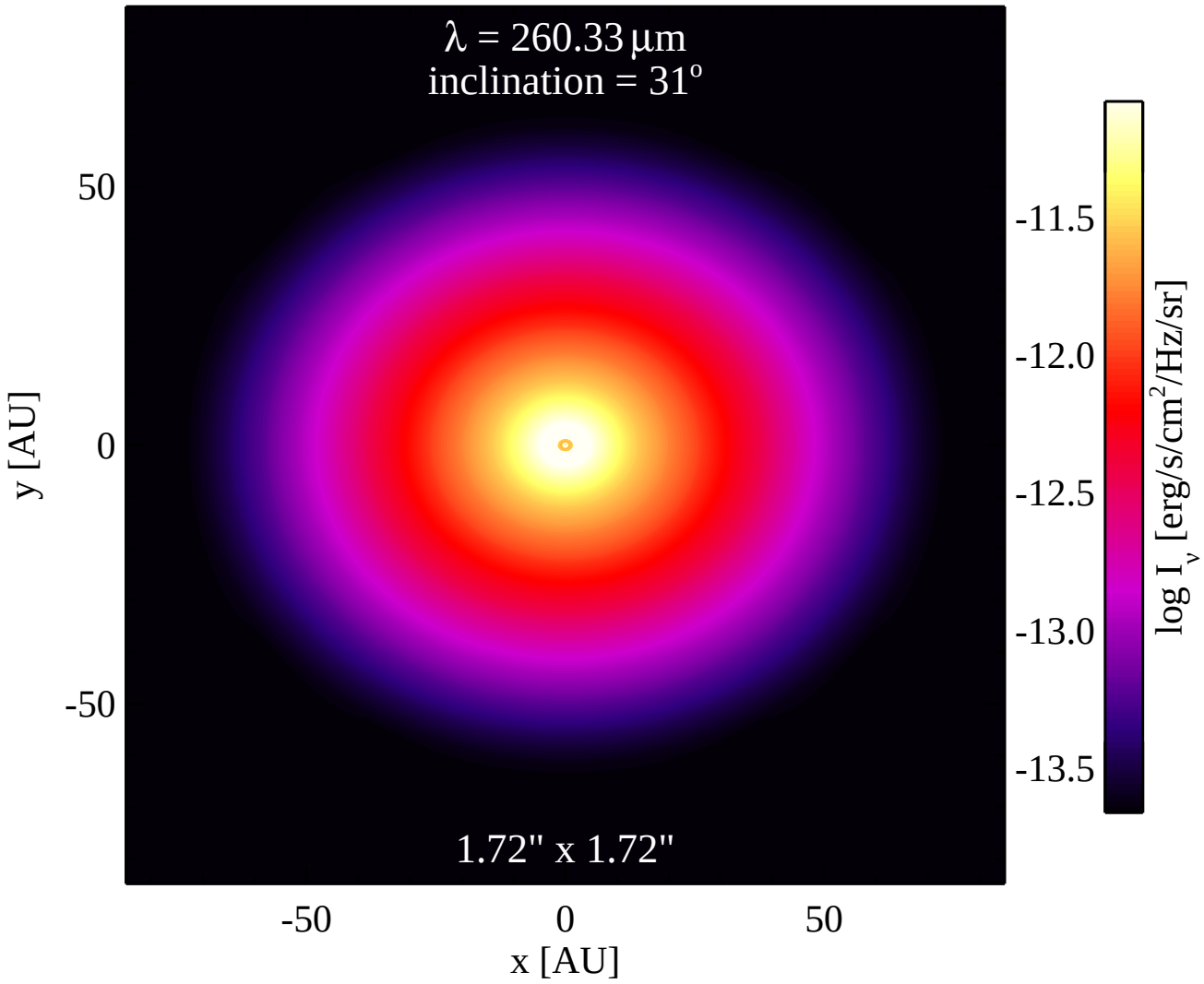

λ = 98.65 μm
inclination = 31°
1.18" x 1.18"
40
20
0
-20
-40
y [AU]
-40
-20
0
20
40
x [AU]
-10.5
-11.0
-11.5
-12.0
-12.5
-13.0
log I_ν [erg/s/cm²/Hz/sr]

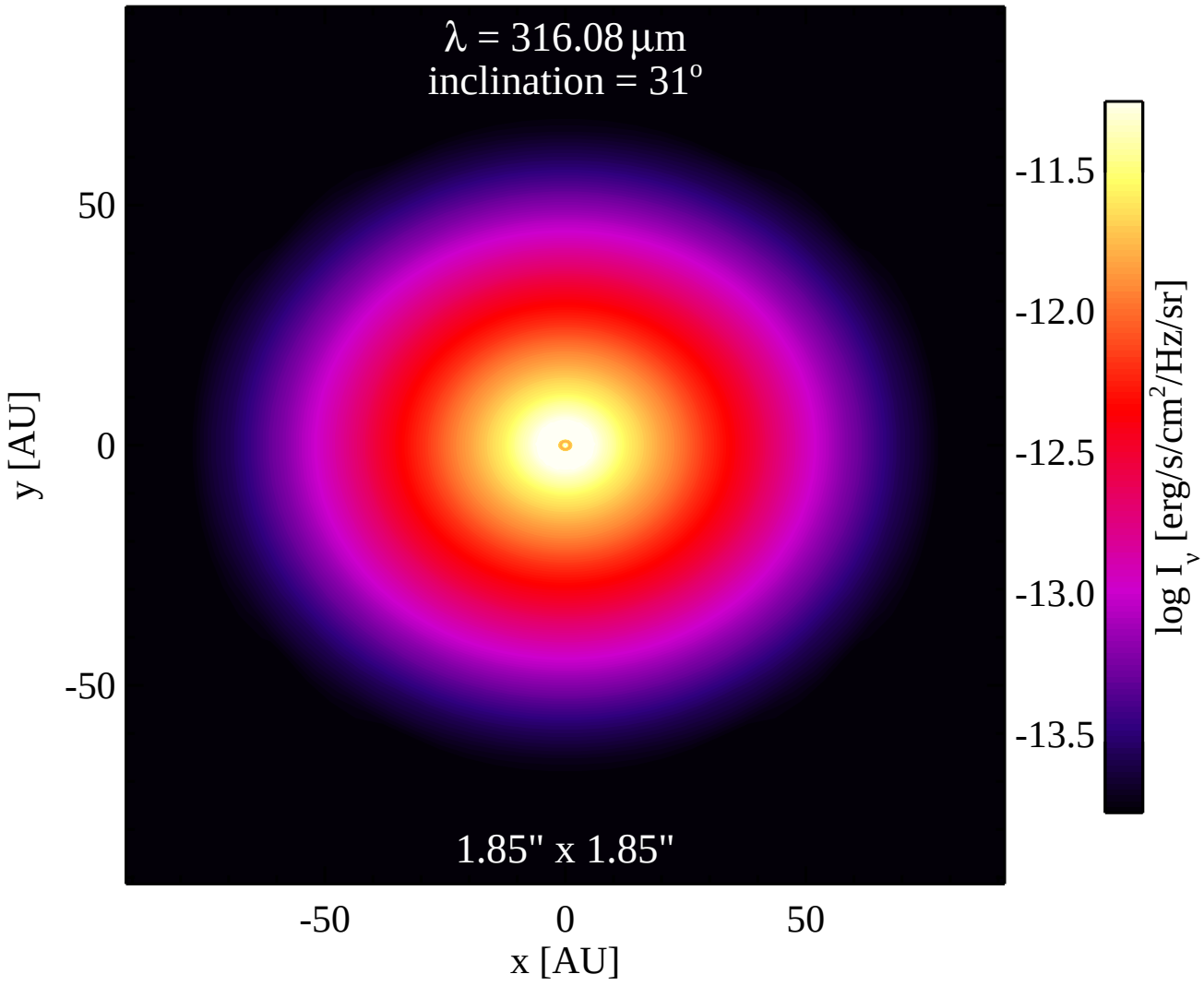

λ = 119.78 μm
inclination = 31°
1.29" x 1.29"
60
40
20
0
-20
-40
-60
y [AU]
-60
-40
-20
0
20
40
60
x [AU]
-10.5
-11.0
-11.5
-12.0
-12.5
-13.0
log I_ν [erg/s/cm²/Hz/sr]

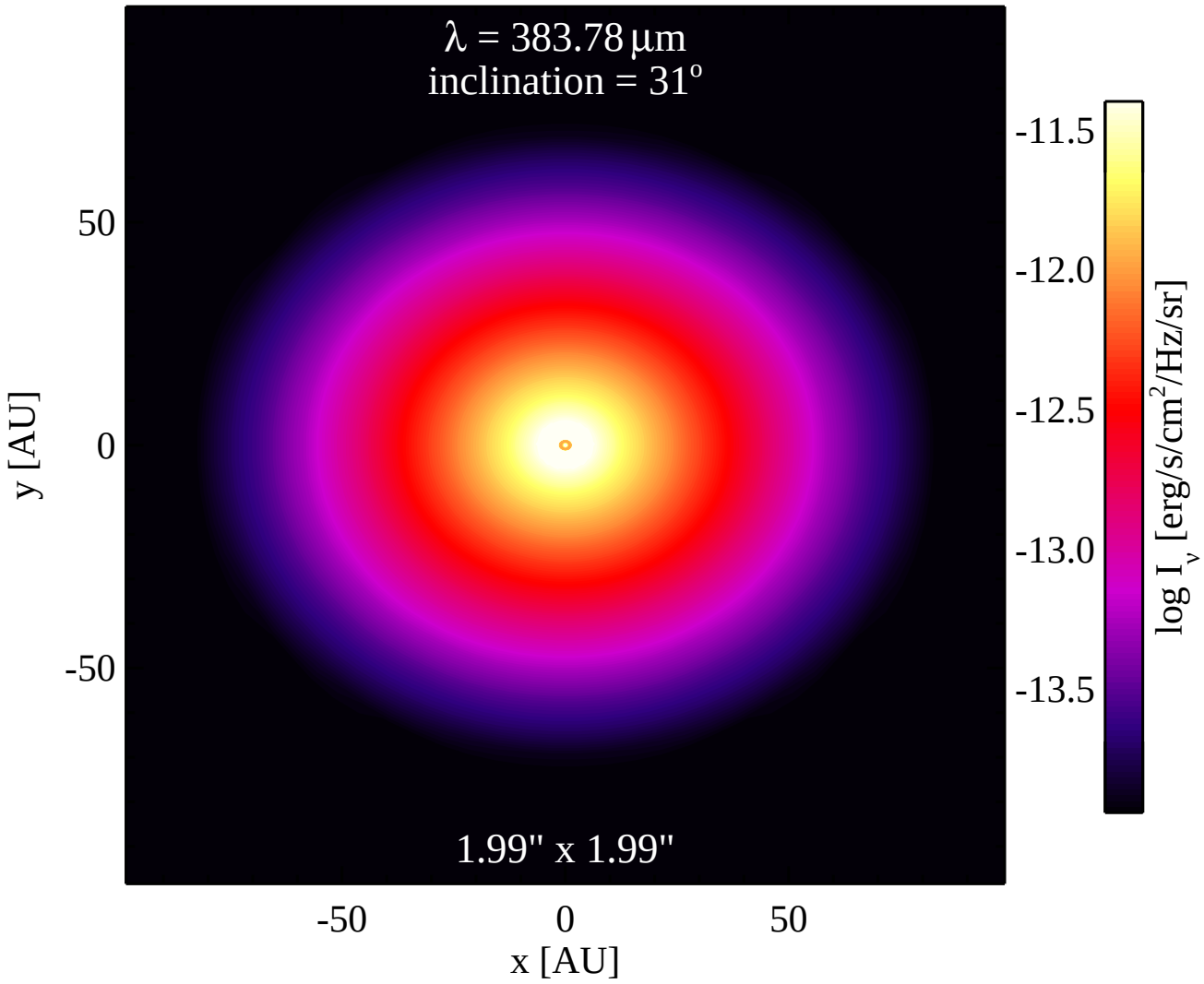

λ = 145.44 μm
inclination = 31°
1.39" x 1.39"
60
40
20
0
-20
-40
-60
y [AU]
-60
-40
-20
0
20
40
60
x [AU]
-10.5
-11.0
-11.5
-12.0
-12.5
-13.0
log I_ν [erg/s/cm²/Hz/sr]

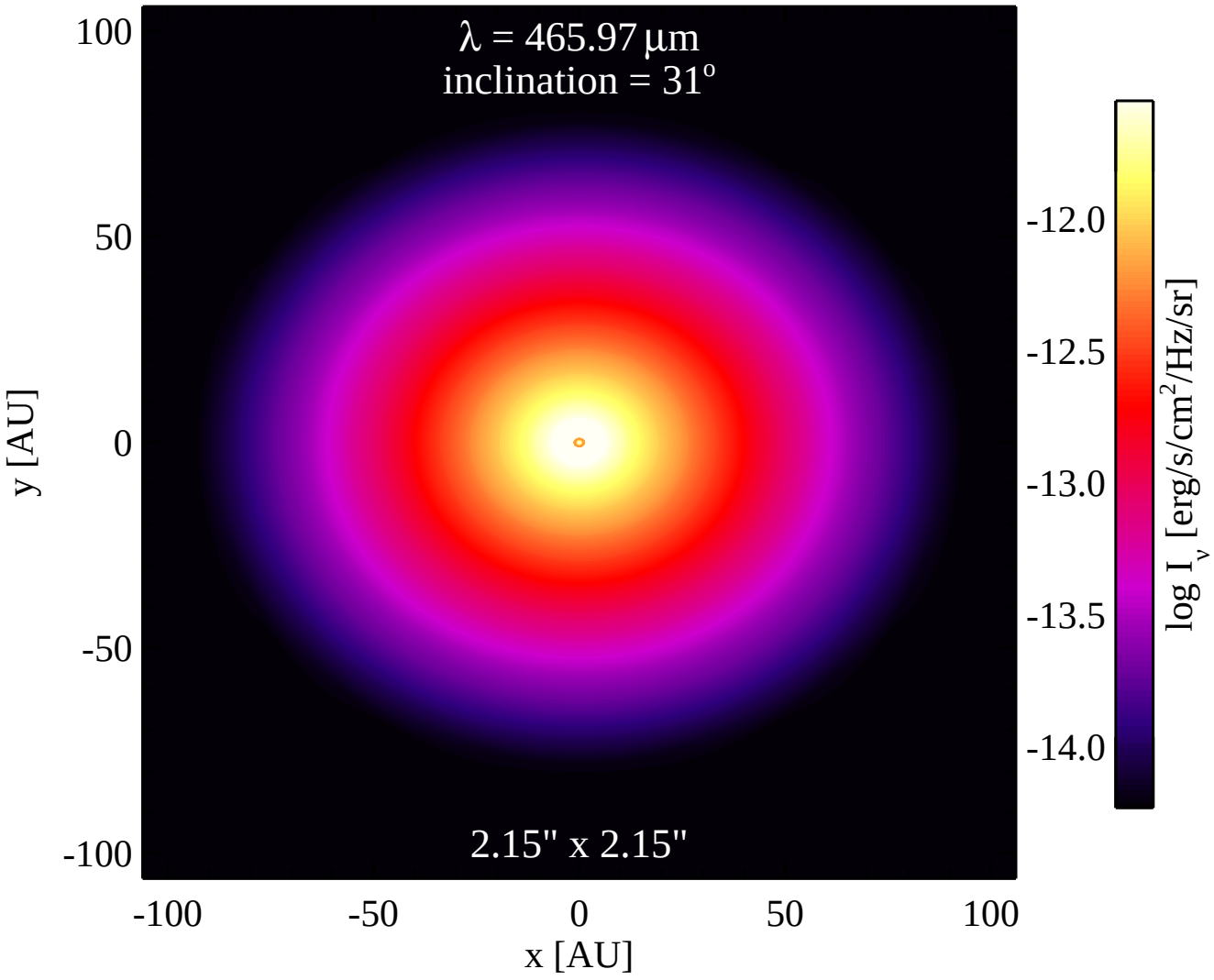

λ = 176.59 μm
inclination = 31°
1.49" x 1.49"
60
40
20
0
-20
-40
-60
y [AU]
-60
-40
-20
0
20
40
60
x [AU]
-11.0
-11.5
-12.0
-12.5
-13.0
log I_ν [erg/s/cm²/Hz/sr]

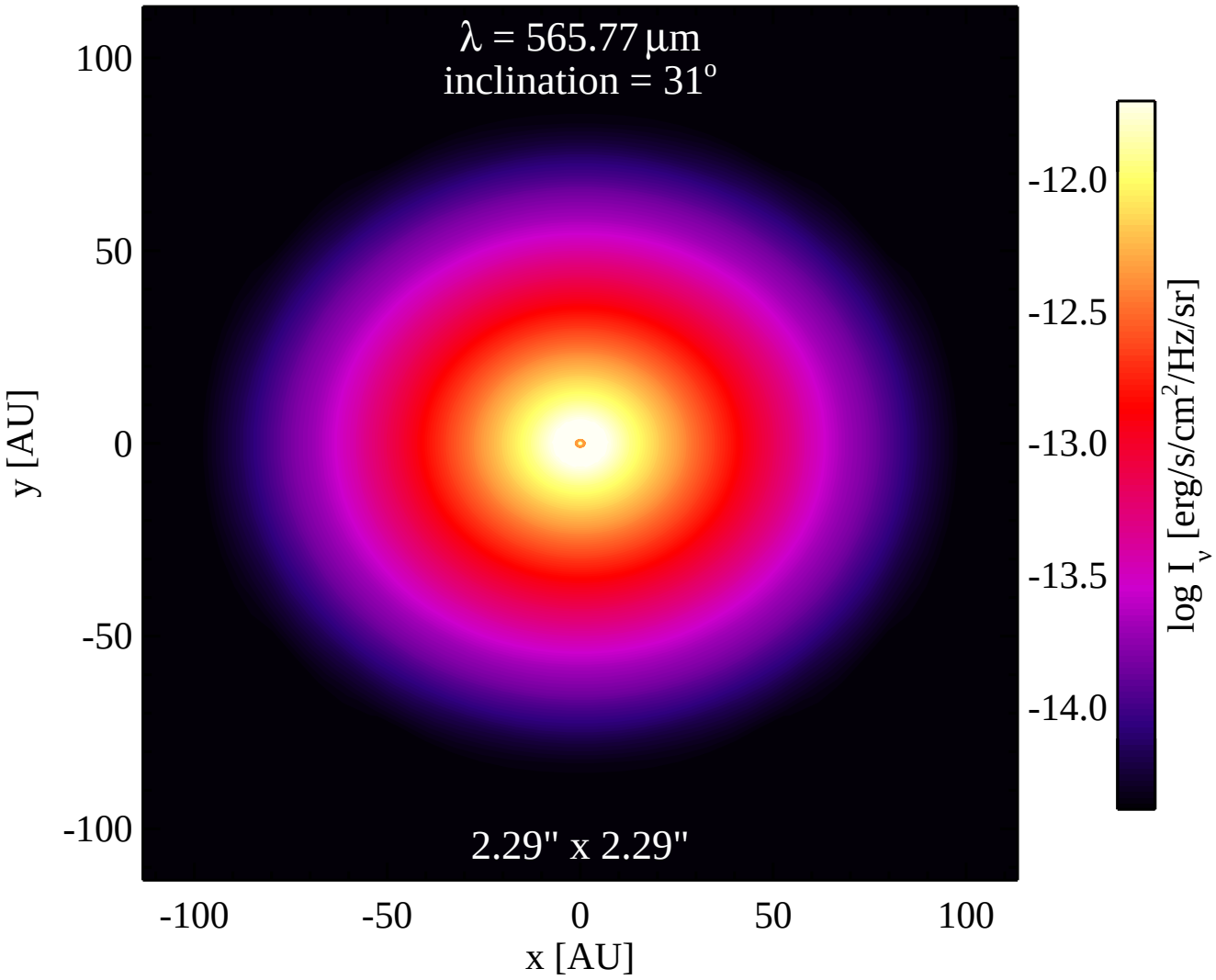

λ = 214.41 μm
inclination = 31°
1.60" x 1.60"
60
40
20
0
-20
-40
-60
y [AU]
-60
-40
-20
0
20
40
60
x [AU]
-11.0
-11.5
-12.0
-12.5
-13.0
-13.5
log I_ν [erg/s/cm²/Hz/sr]

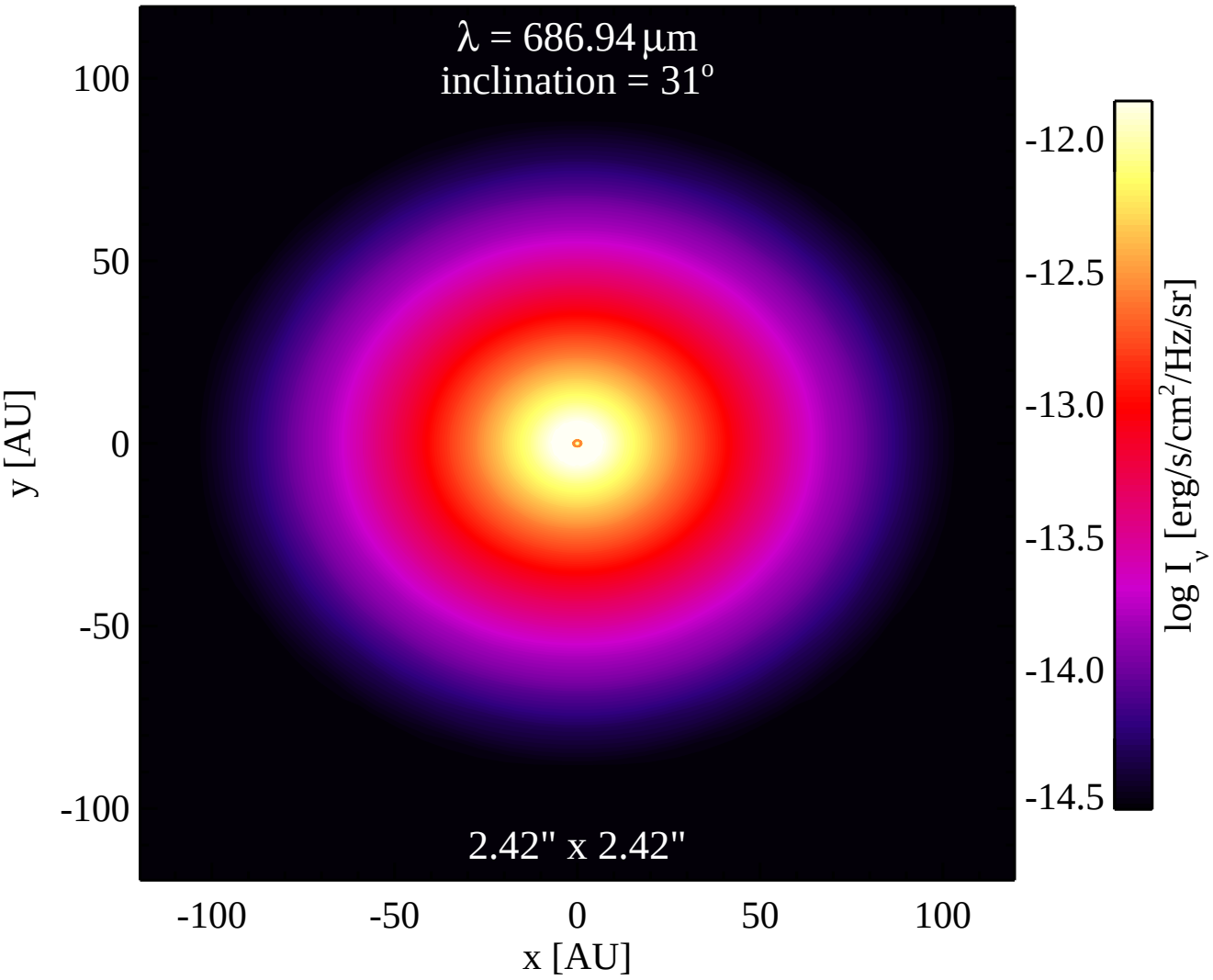

λ = 260.33 μm
inclination = 31°
1.72" x 1.72"
50
0
-50
y [AU]
-50
0
50
x [AU]
-11.5
-12.0
-12.5
-13.0
-13.5
log I_ν [erg/s/cm²/Hz/sr]

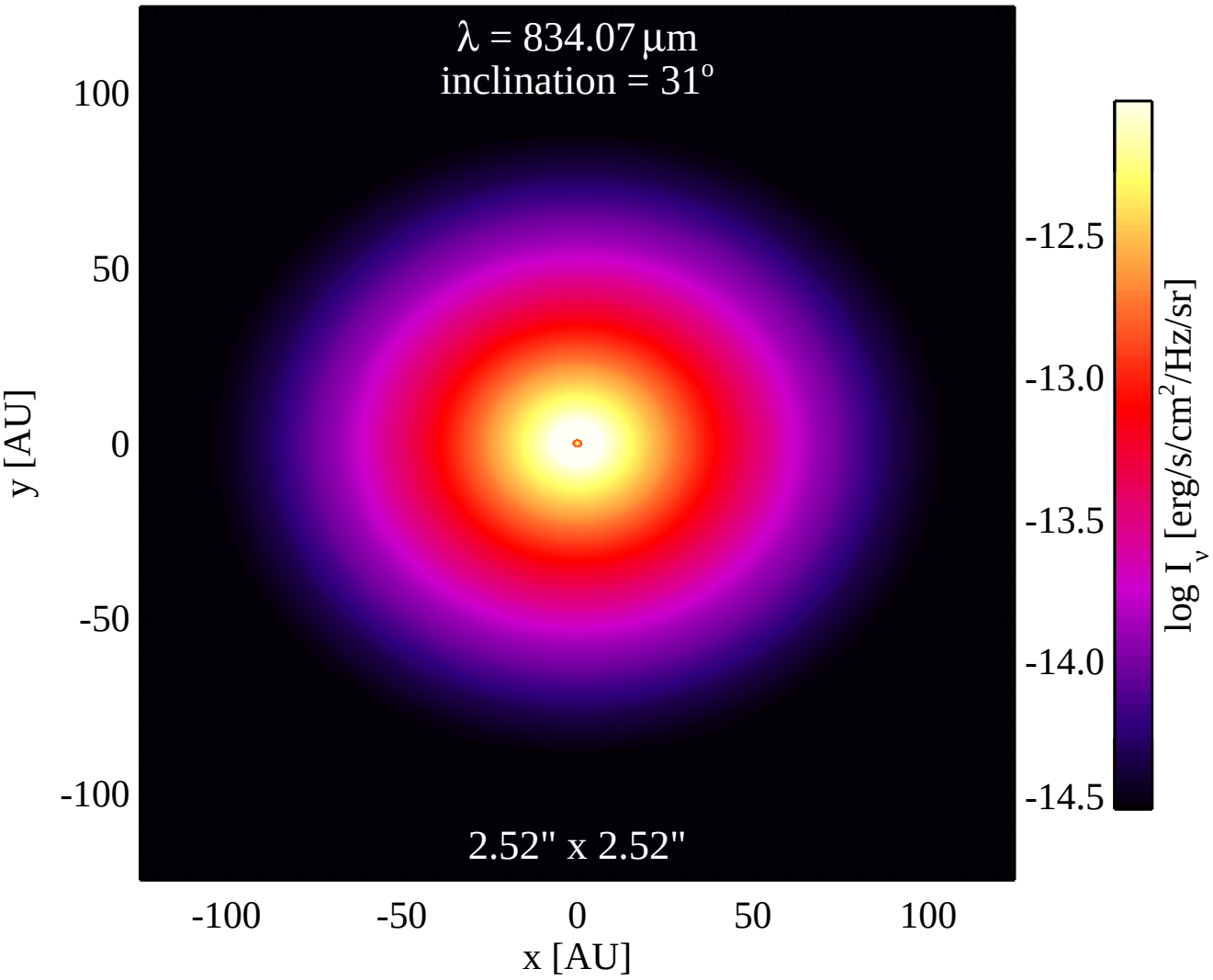

λ = 316.08 μm
inclination = 31°
1.85" x 1.85"
50
0
-50
y [AU]
-50
0
50
x [AU]
-11.5
-12.0
-12.5
-13.0
-13.5
log I_ν [erg/s/cm²/Hz/sr]

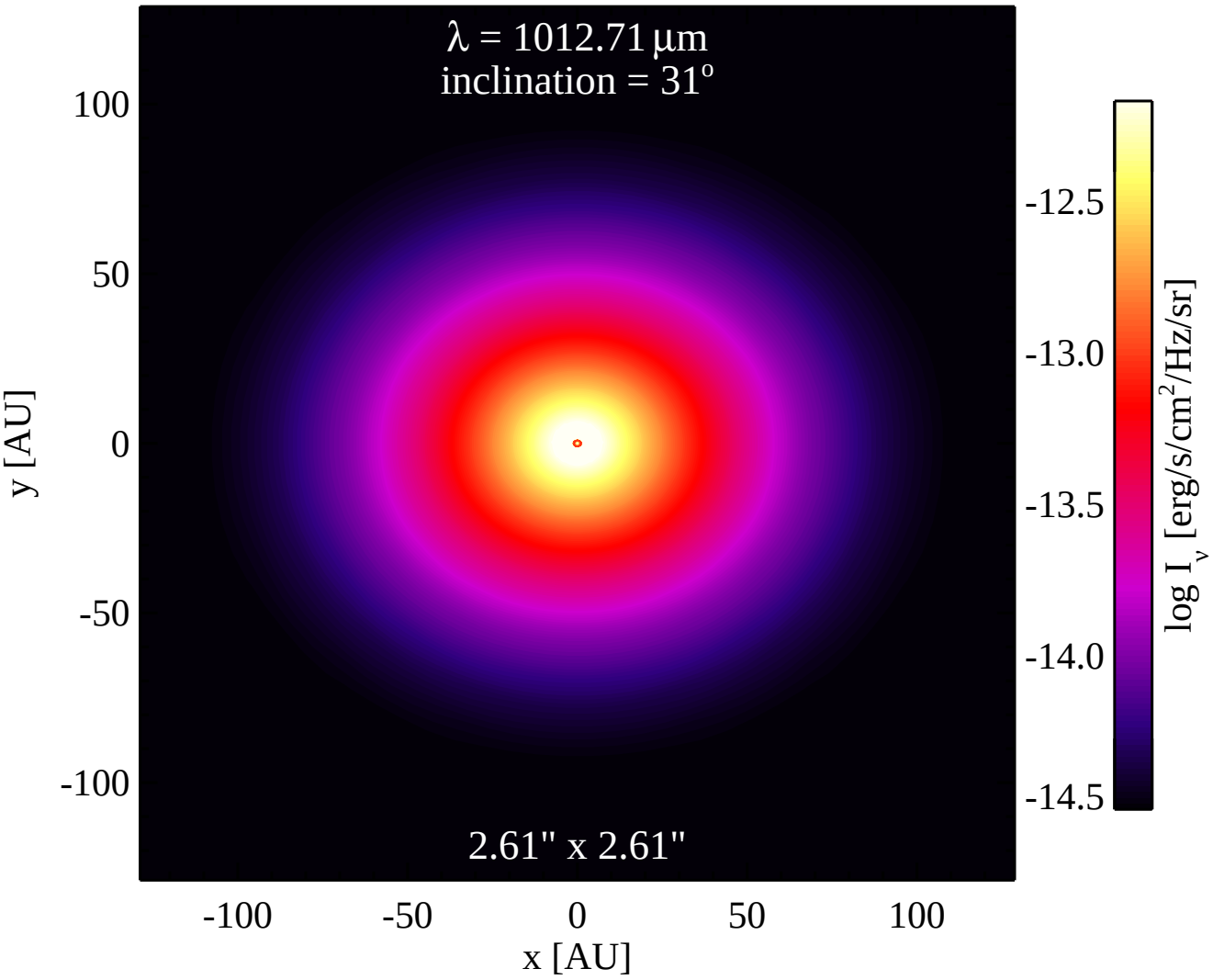

λ = 383.78 μm
inclination = 31°
1.99" x 1.99"
50
0
-50
y [AU]
-50
0
50
x [AU]
-11.5
-12.0
-12.5
-13.0
-13.5
log I_ν [erg/s/cm²/Hz/sr]

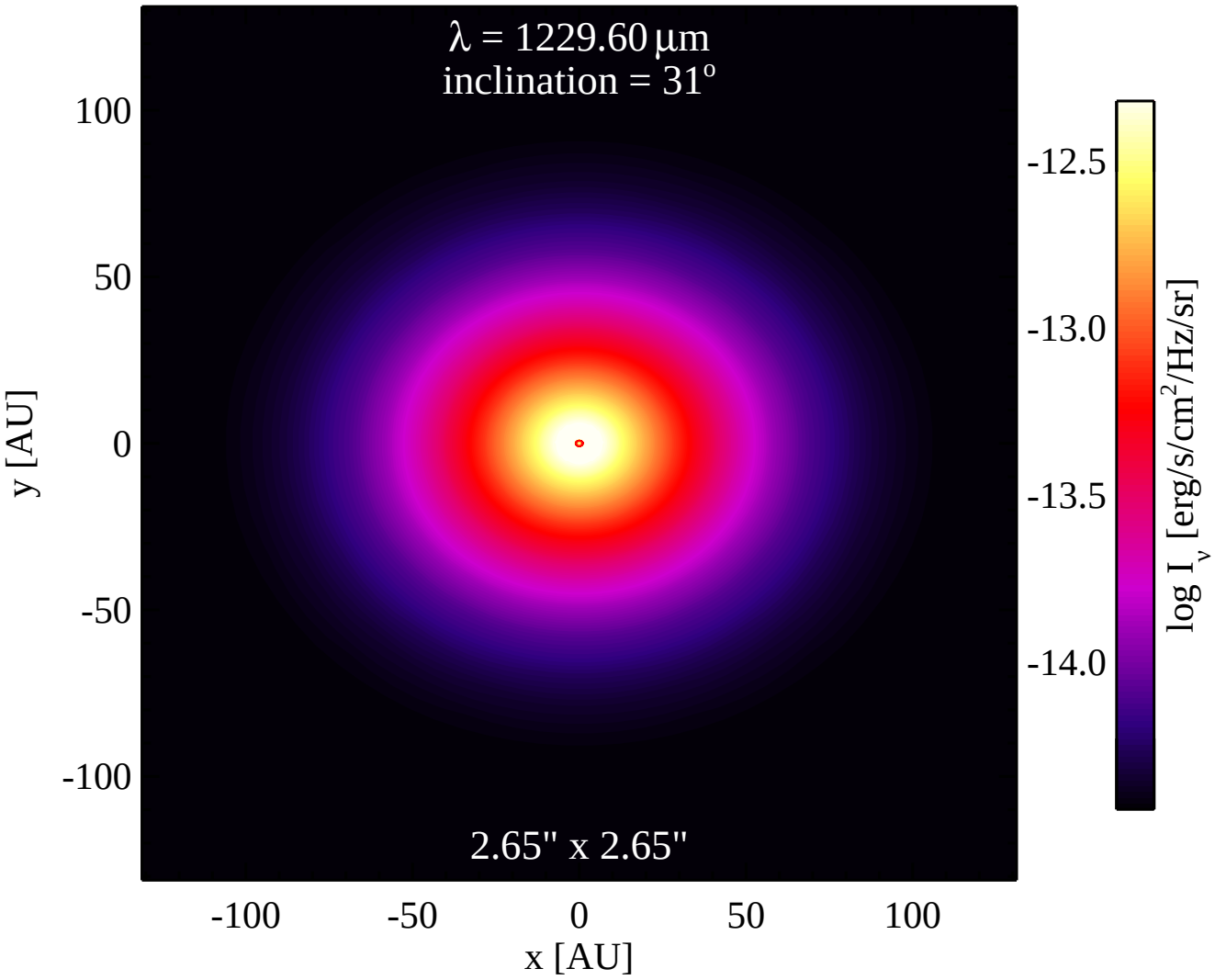

λ = 465.97 μm
inclination = 31°
2.15" x 2.15"
100
50
0
-50
-100
y [AU]
-100
-50
0
50
100
x [AU]
-12.0
-12.5
-13.0
-13.5
-14.0
log I_ν [erg/s/cm²/Hz/sr]

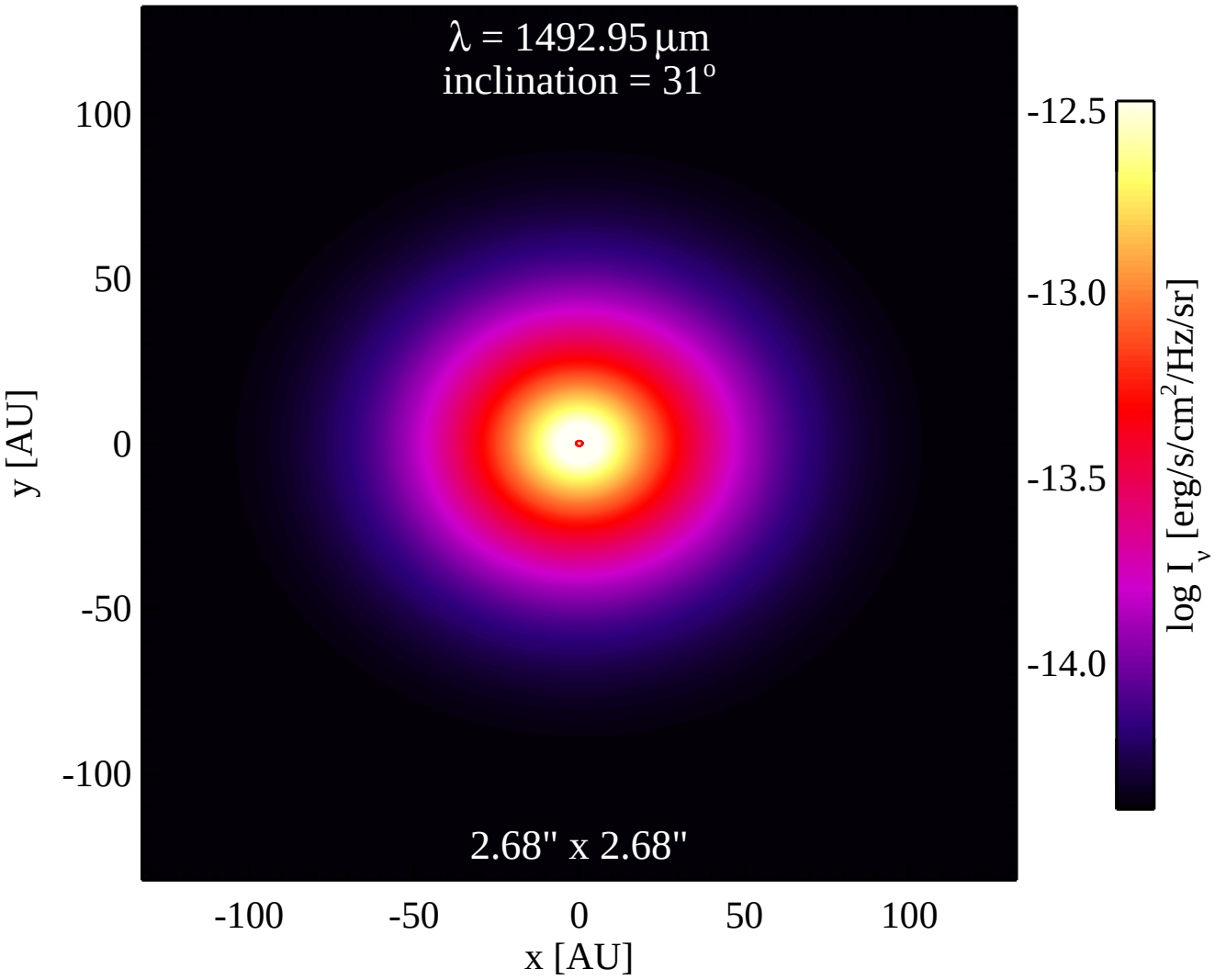

λ = 565.77 μm
inclination = 31°
2.29" x 2.29"
100
50
0
-50
-100
y [AU]
-100
-50
0
50
100
x [AU]
-12.0
-12.5
-13.0
-13.5
-14.0
log I_ν [erg/s/cm²/Hz/sr]

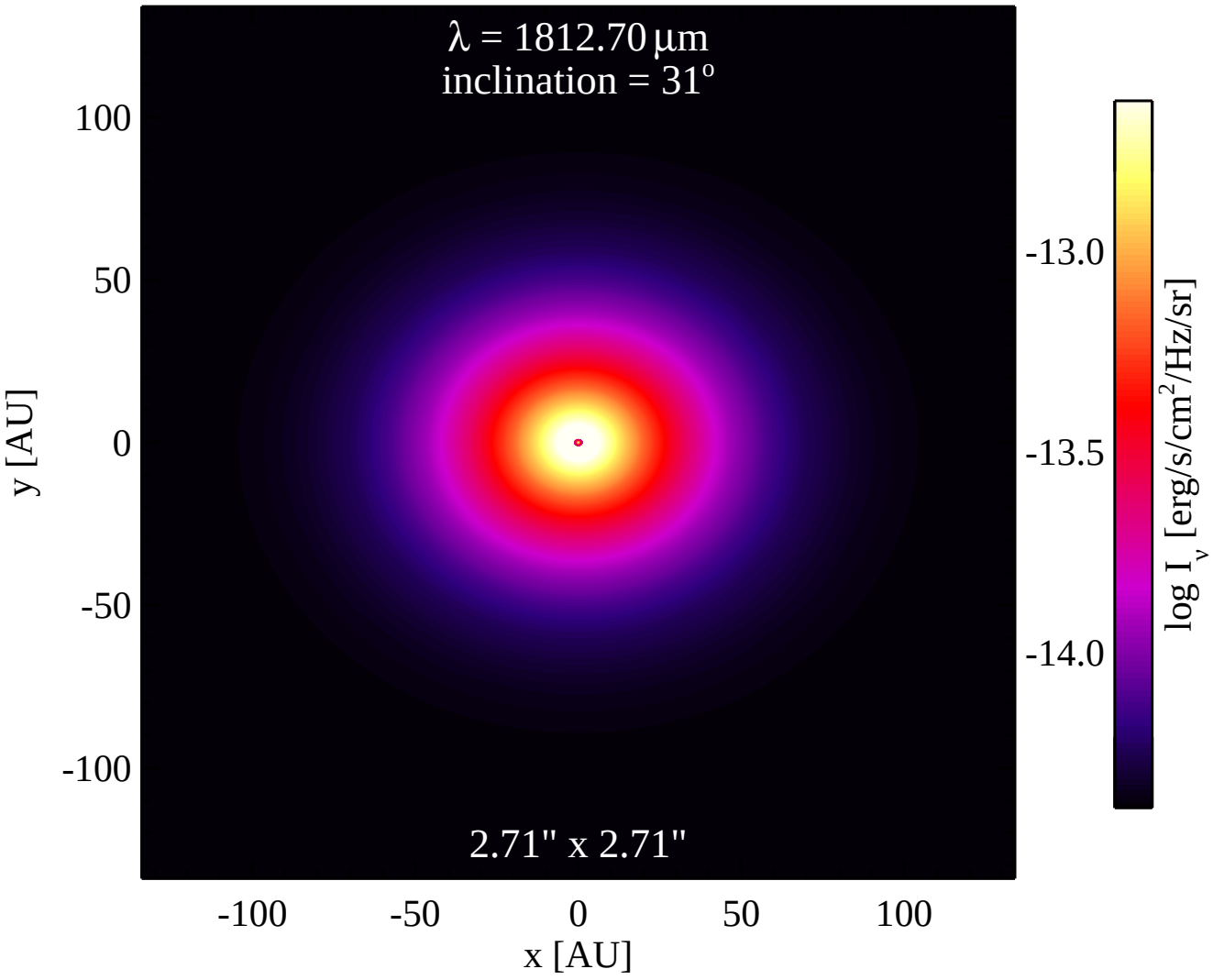

λ = 686.94 μm
inclination = 31°
2.42" x 2.42"
100
50
0
-50
-100
y [AU]
-100
-50
0
50
100
x [AU]
-12.0
-12.5
-13.0
-13.5
-14.0
-14.5
log I_ν [erg/s/cm²/Hz/sr]

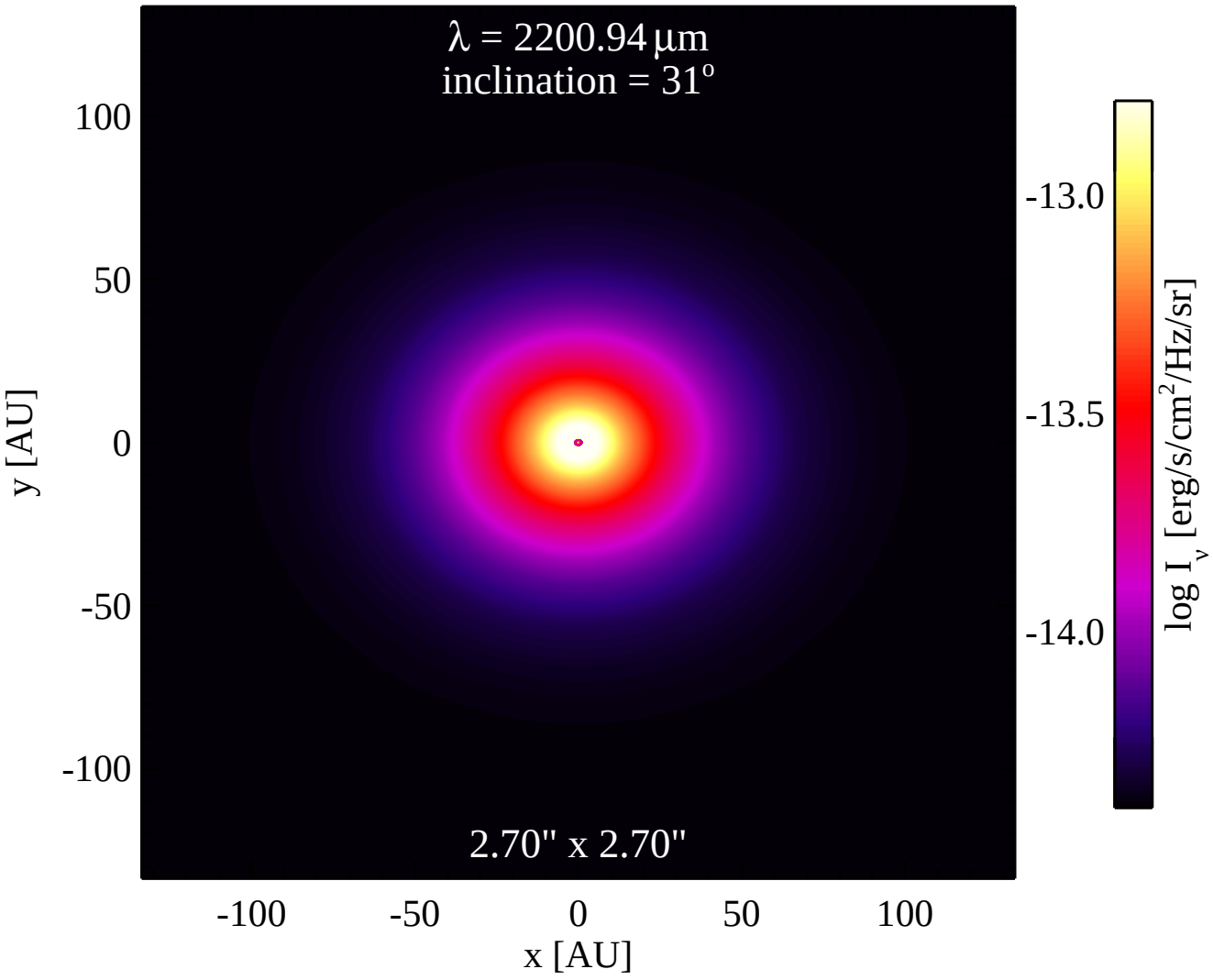

λ = 834.07 μm
inclination = 31°
2.52" x 2.52"
100
50
0
-50
-100
y [AU]
-100
-50
0
50
100
x [AU]
-12.5
-13.0
-13.5
-14.0
-14.5
log I_ν [erg/s/cm²/Hz/sr]

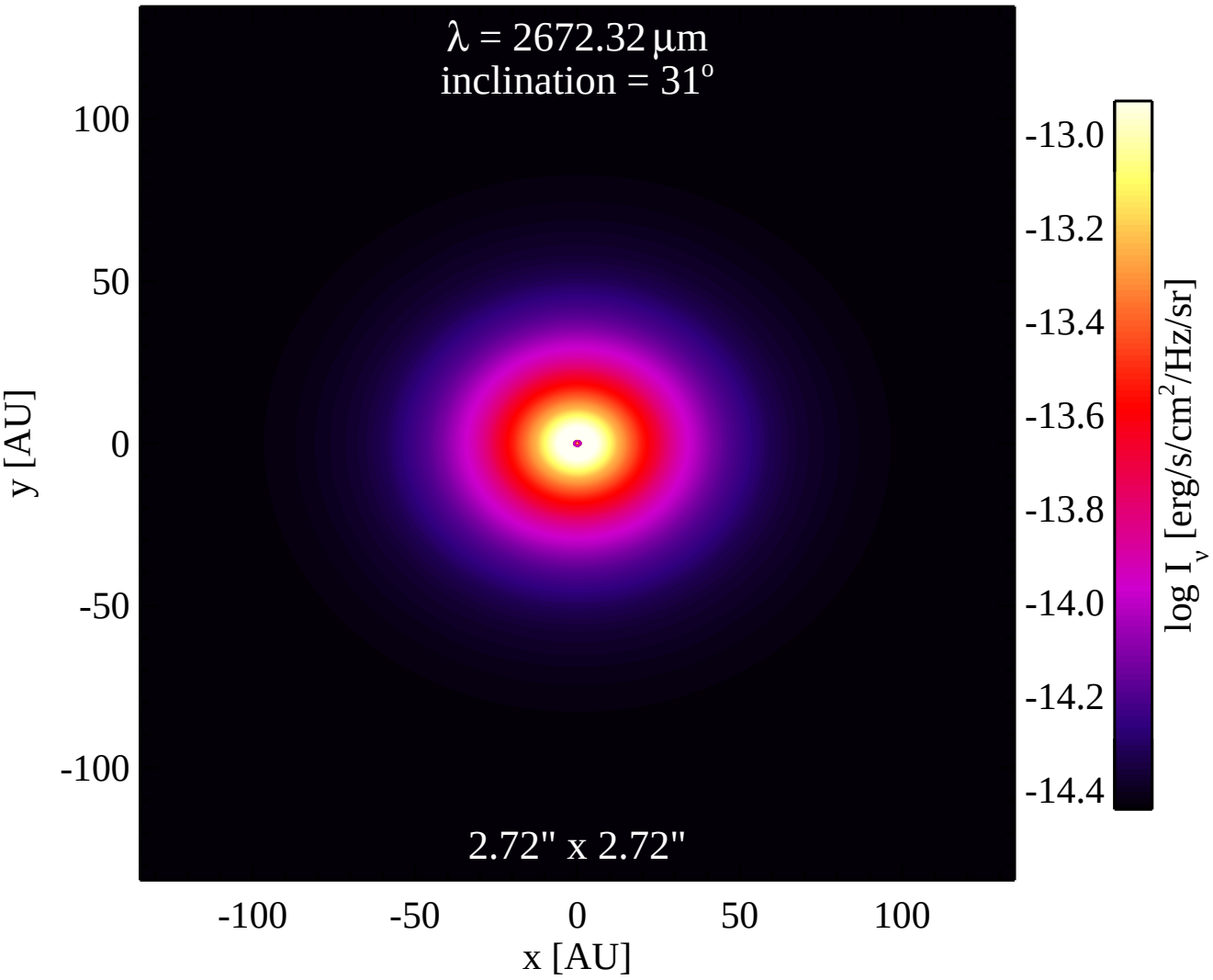

λ = 1012.71 μm
inclination = 31°
2.61" x 2.61"
100
50
0
-50
-100
y [AU]
-100
-50
0
50
100
x [AU]
-12.5
-13.0
-13.5
-14.0
-14.5
log I_ν [erg/s/cm²/Hz/sr]

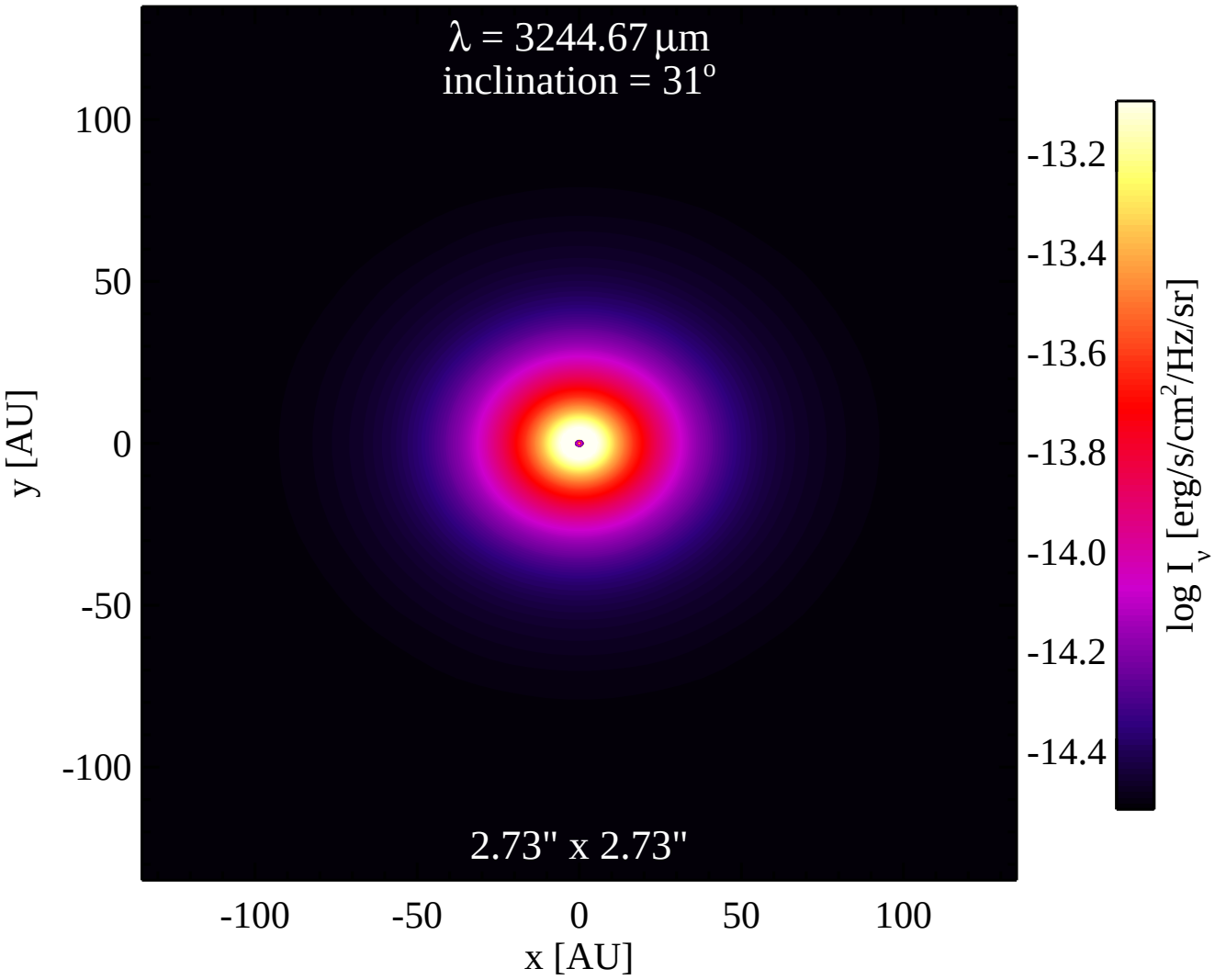

λ = 1229.60 μm
inclination = 31°
2.65" x 2.65"
100
50
0
-50
-100
y [AU]
-100
-50
0
50
100
x [AU]
-12.5
-13.0
-13.5
-14.0
log I_ν [erg/s/cm²/Hz/sr]

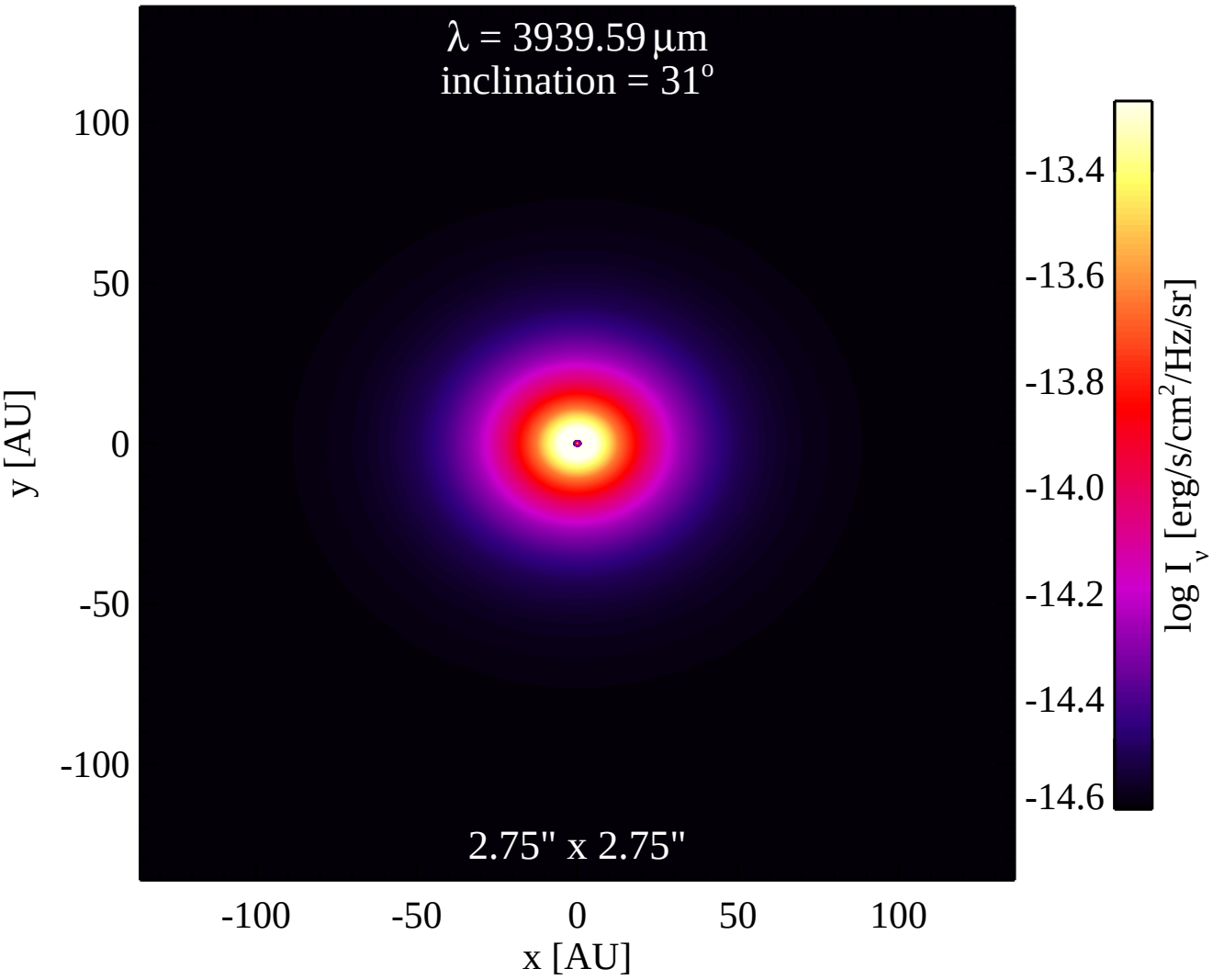

λ = 1492.95 μm
inclination = 31°
2.68" x 2.68"
100
50
0
-50
-100
y [AU]
-100
-50
0
50
100
x [AU]
-12.5
-13.0
-13.5
-14.0
log I_ν [erg/s/cm²/Hz/sr]

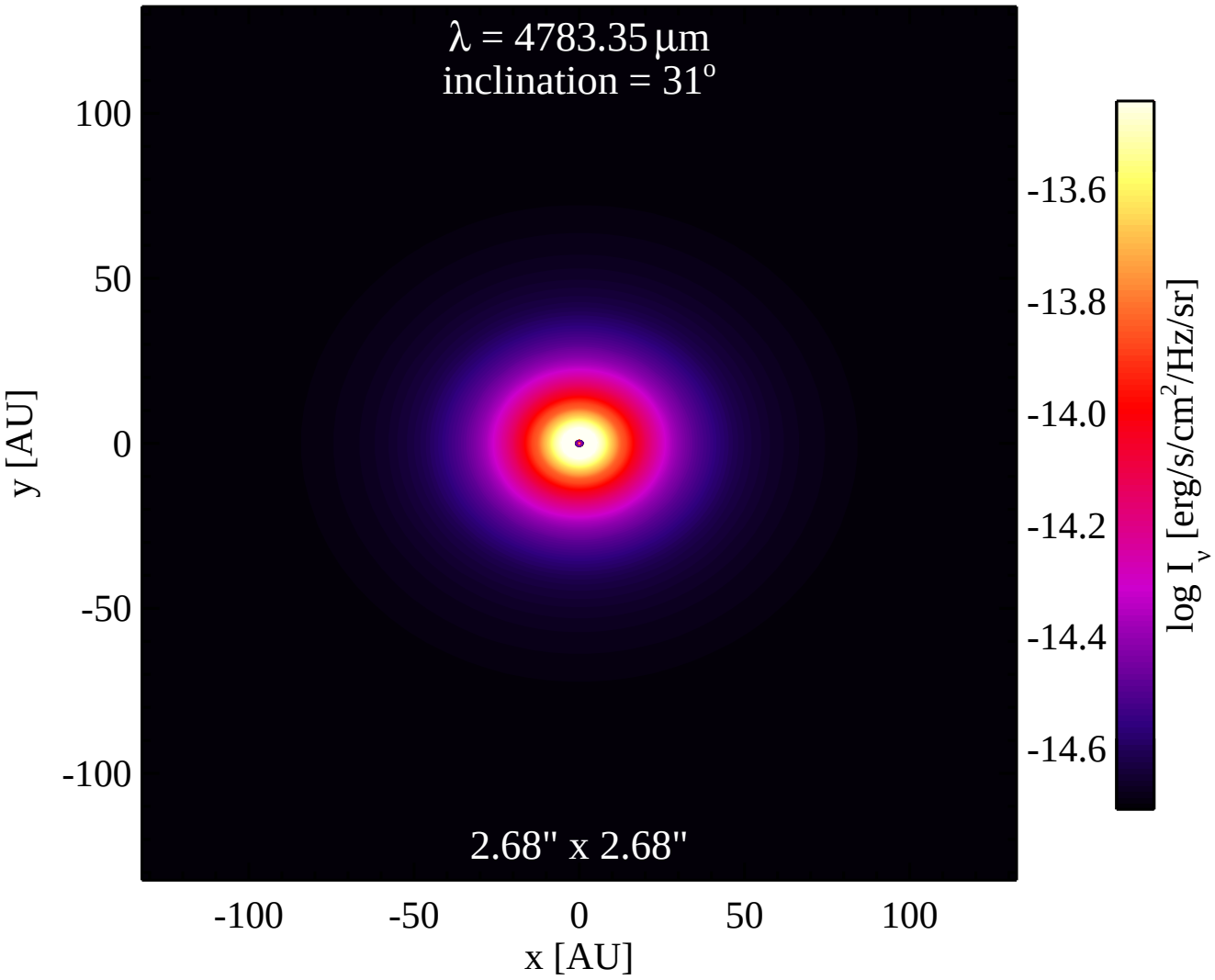

λ = 1812.70 μm
inclination = 31°
2.71" x 2.71"
100
50
0
-50
-100
y [AU]
-100
-50
0
50
100
x [AU]
-13.0
-13.5
-14.0
log I_ν [erg/s/cm²/Hz/sr]


λ = 2200.94 μm
inclination = 31°
2.70" x 2.70"
100
50
0
-50
-100
y [AU]
-100
-50
0
50
100
x [AU]
-13.0
-13.5
-14.0
log I_ν [erg/s/cm²/Hz/sr]


λ = 2672.32 μm
inclination = 31°
2.72" x 2.72"
100
50
0
-50
-100
y [AU]
-100
-50
0
50
100
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 = 3244.67 μm
inclination = 31°
2.73" x 2.73"
100
50
0
-50
-100
y [AU]
-100
-50
0
50
100
x [AU]
-13.2
-13.4
-13.6
-13.8
-14.0
-14.2
-14.4
log I_ν [erg/s/cm²/Hz/sr]


λ = 3939.59 μm
inclination = 31°
2.75" x 2.75"
100
50
0
-50
-100
y [AU]
-100
-50
0
50
100
x [AU]
-13.4
-13.6
-13.8
-14.0
-14.2
-14.4
-14.6
log I_ν [erg/s/cm²/Hz/sr]


λ = 4783.35 μm
inclination = 31°
2.68" x 2.68"
100
50
0
-50
-100
y [AU]
-100
-50
0
50
100
x [AU]
-13.6
-13.8
-14.0
-14.2
-14.4
-14.6
log I_ν [erg/s/cm²/Hz/sr]