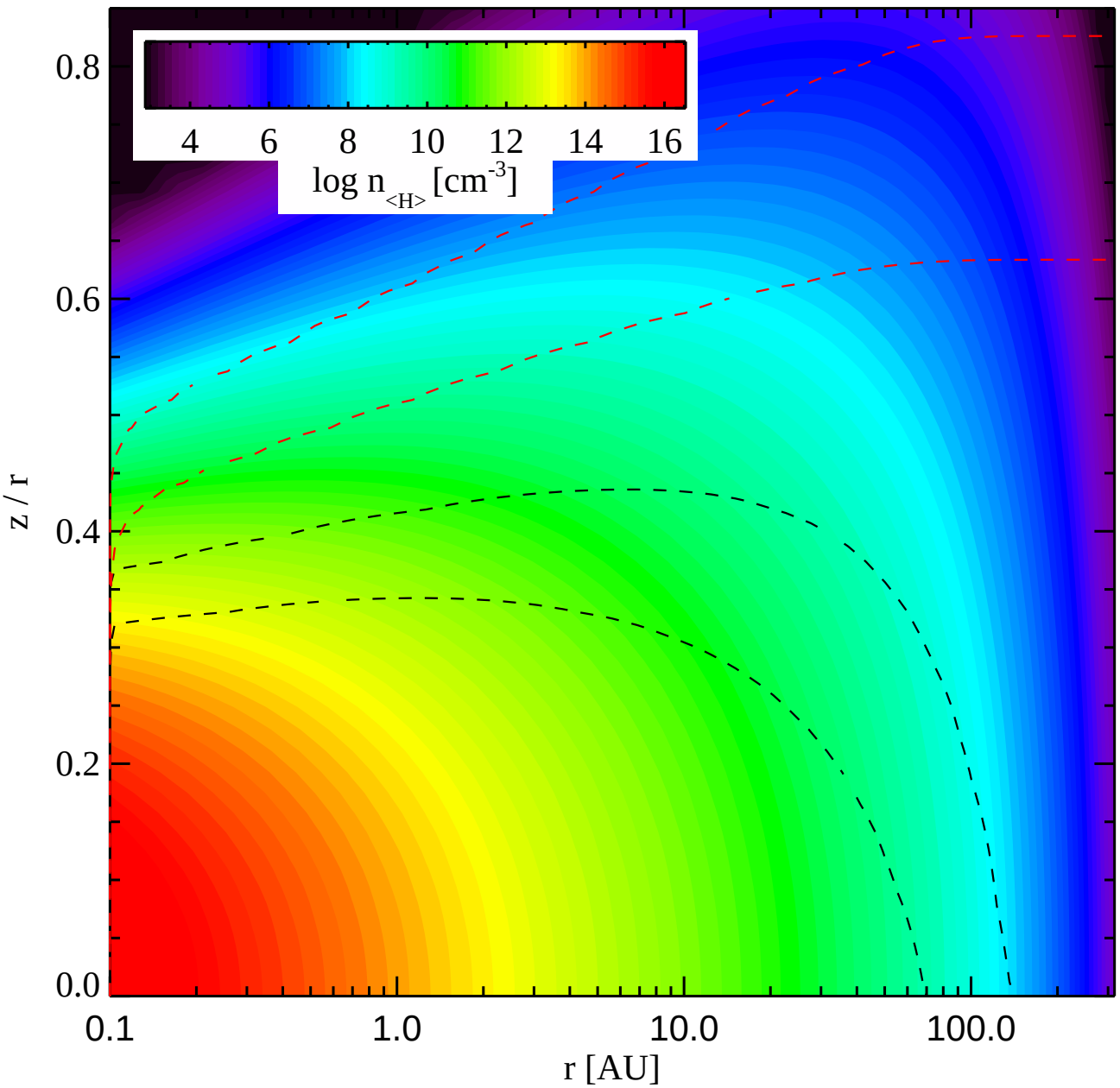
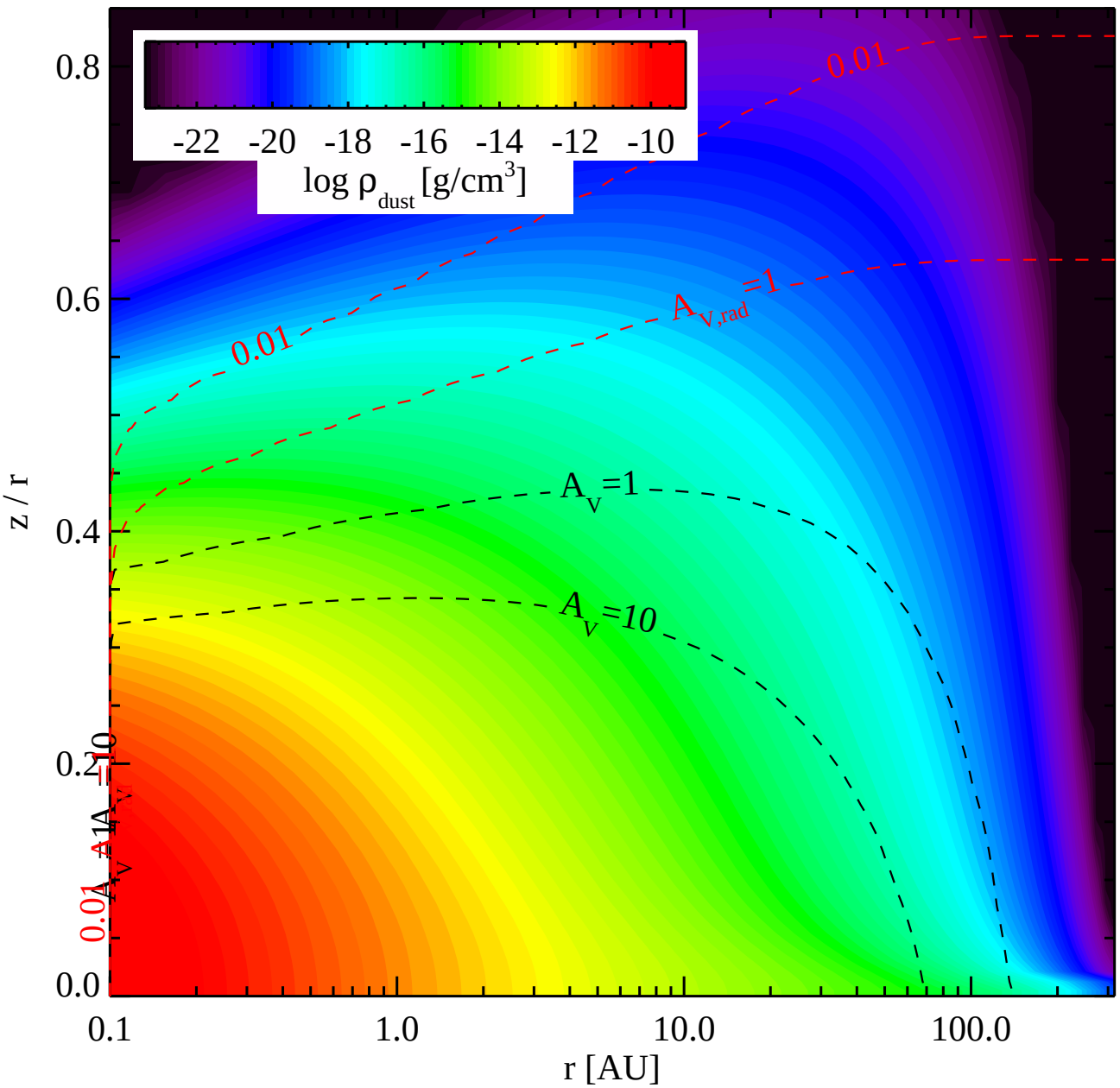
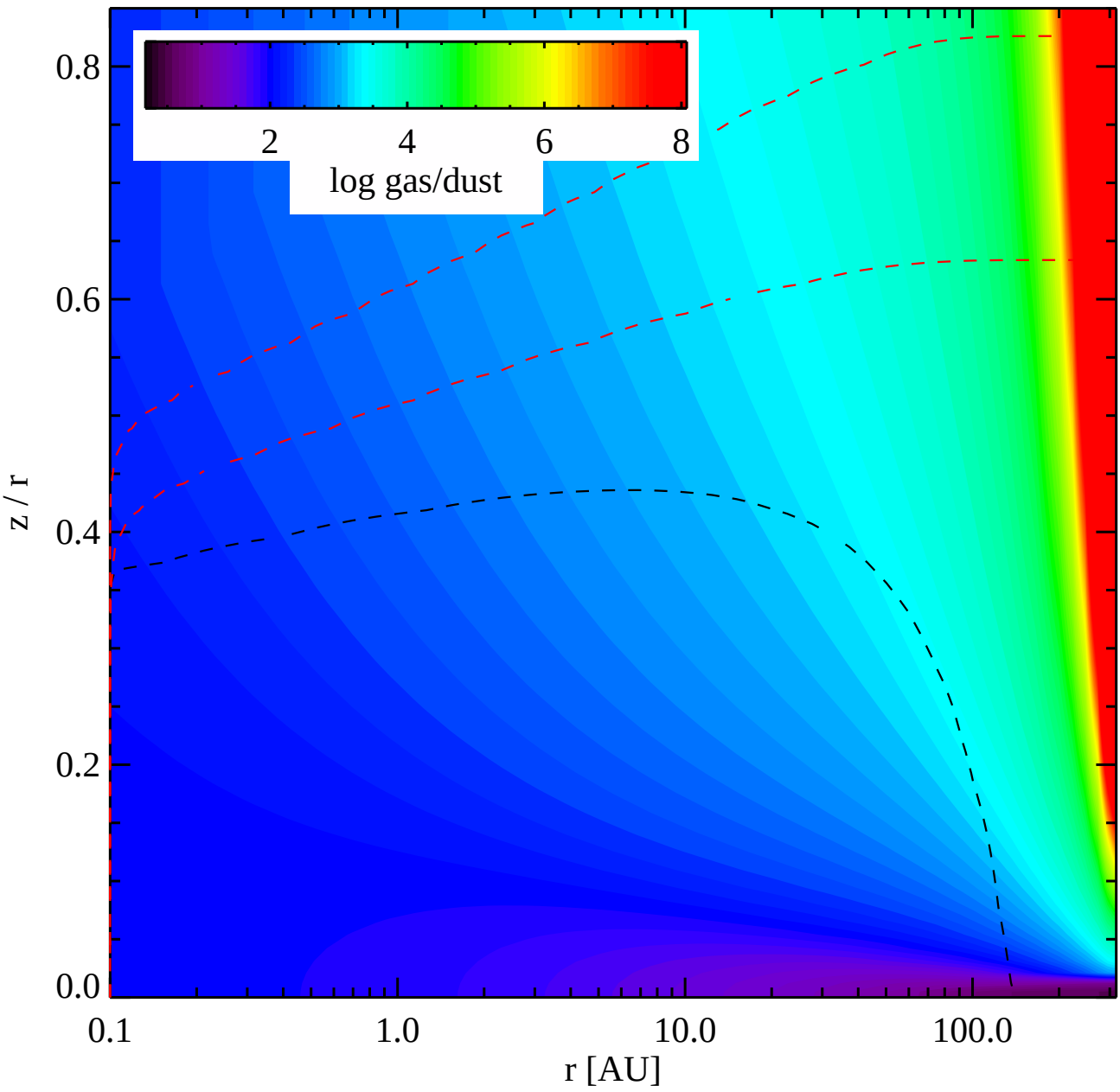
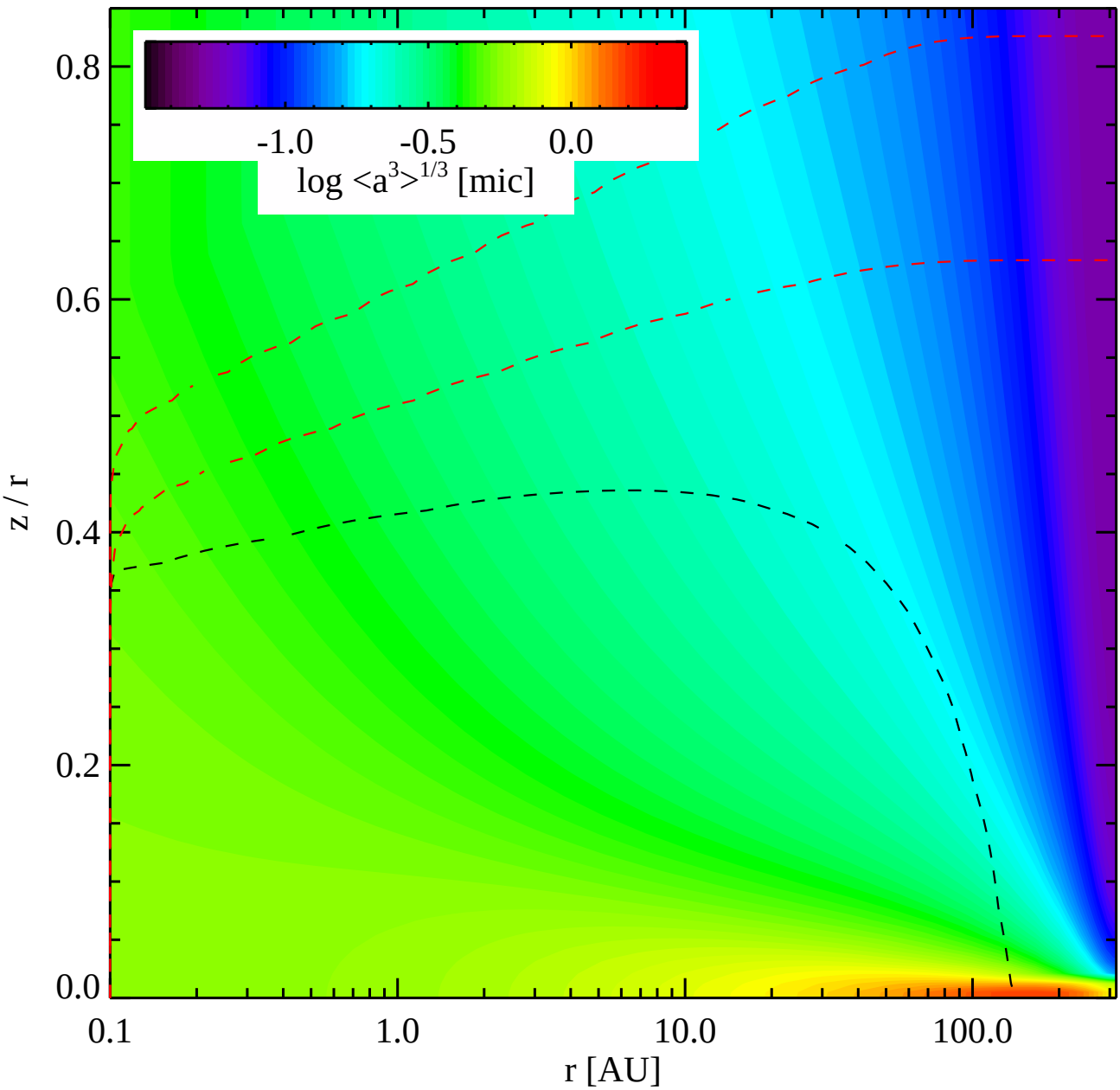
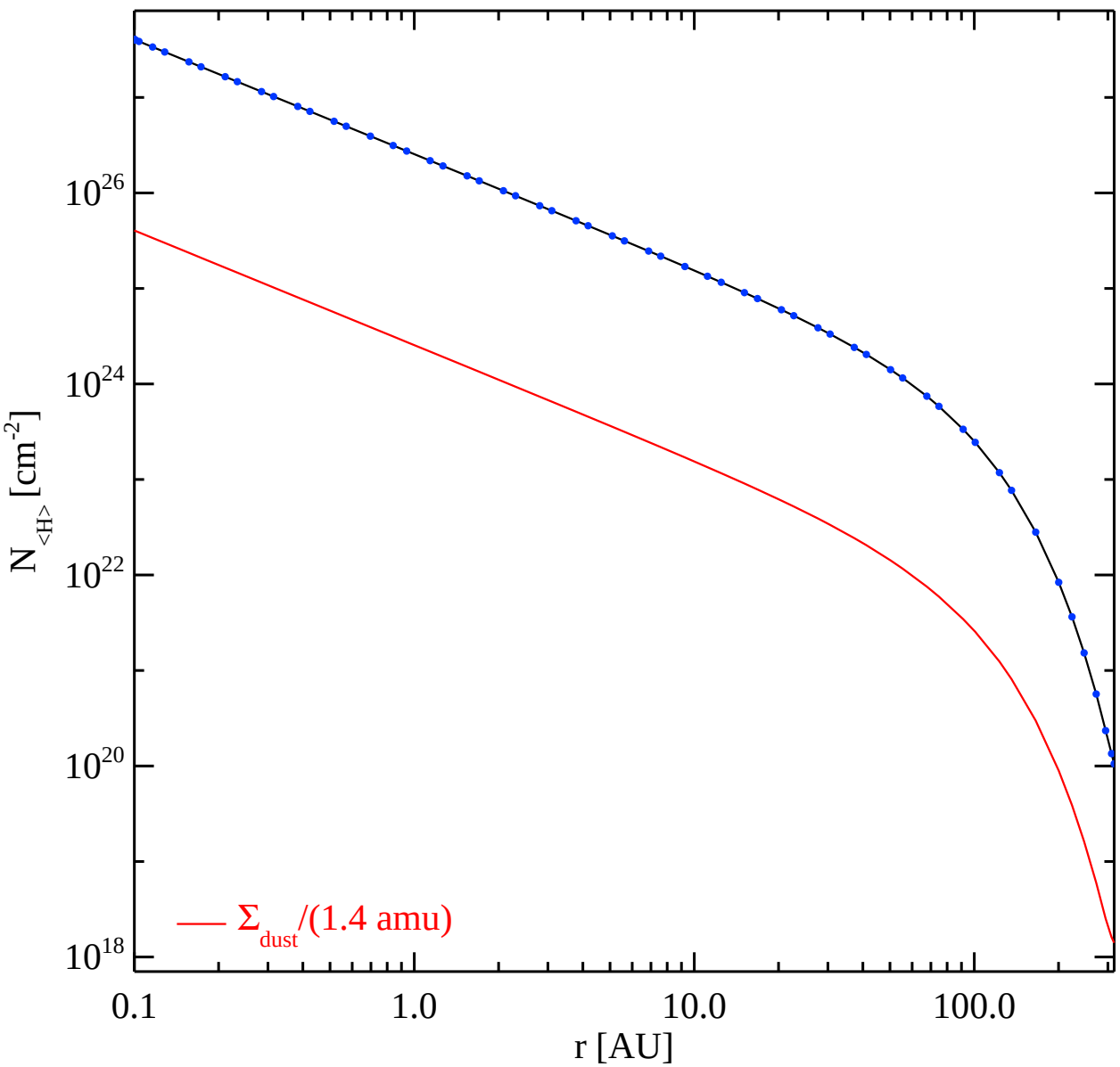
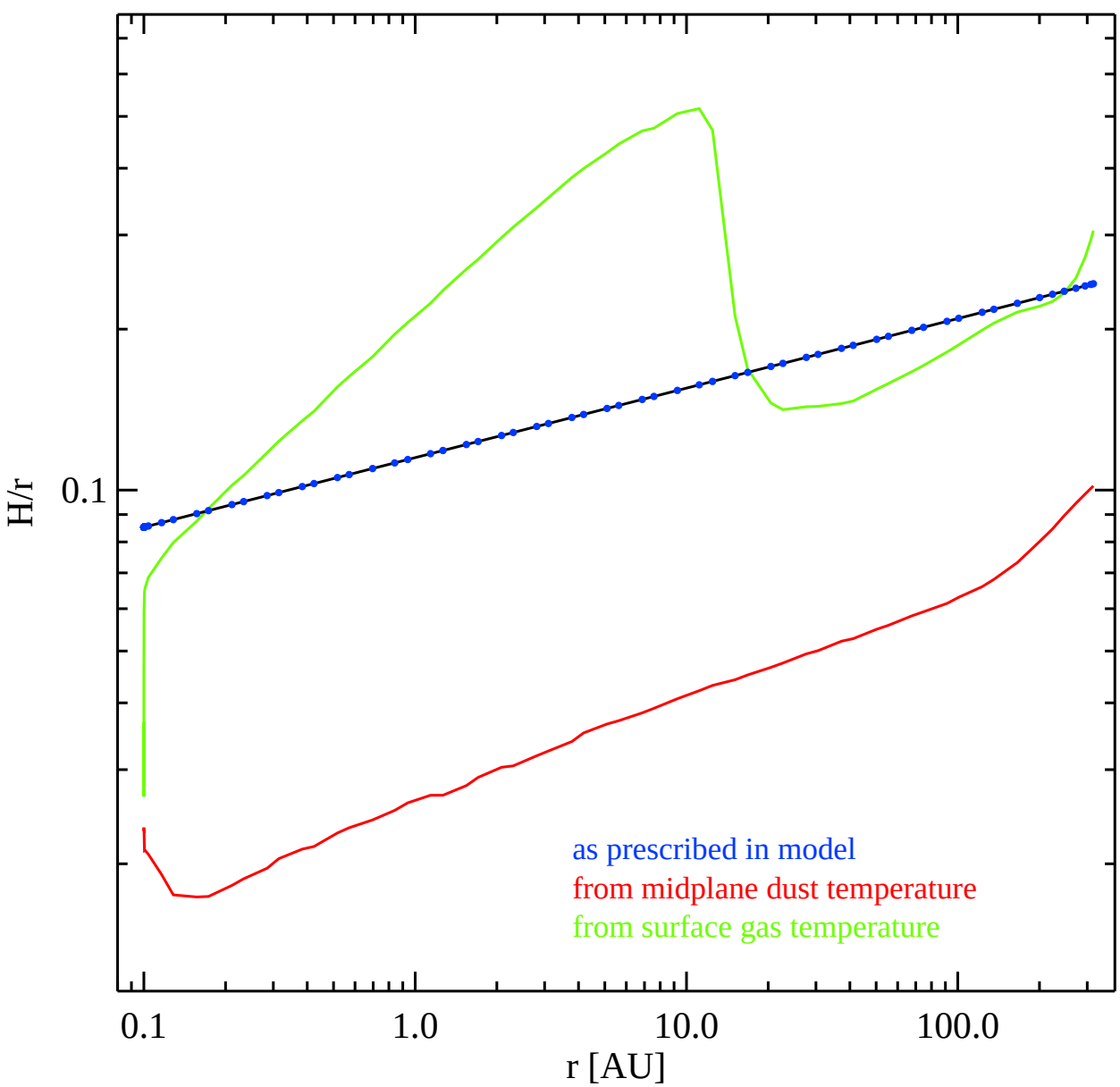

4
6
8
10
12
14
16
log n<H> [cm-3]
0.8
0.6
0.4
0.2
0.0
z / r
0.1
1.0
10.0
100.0
r [AU]

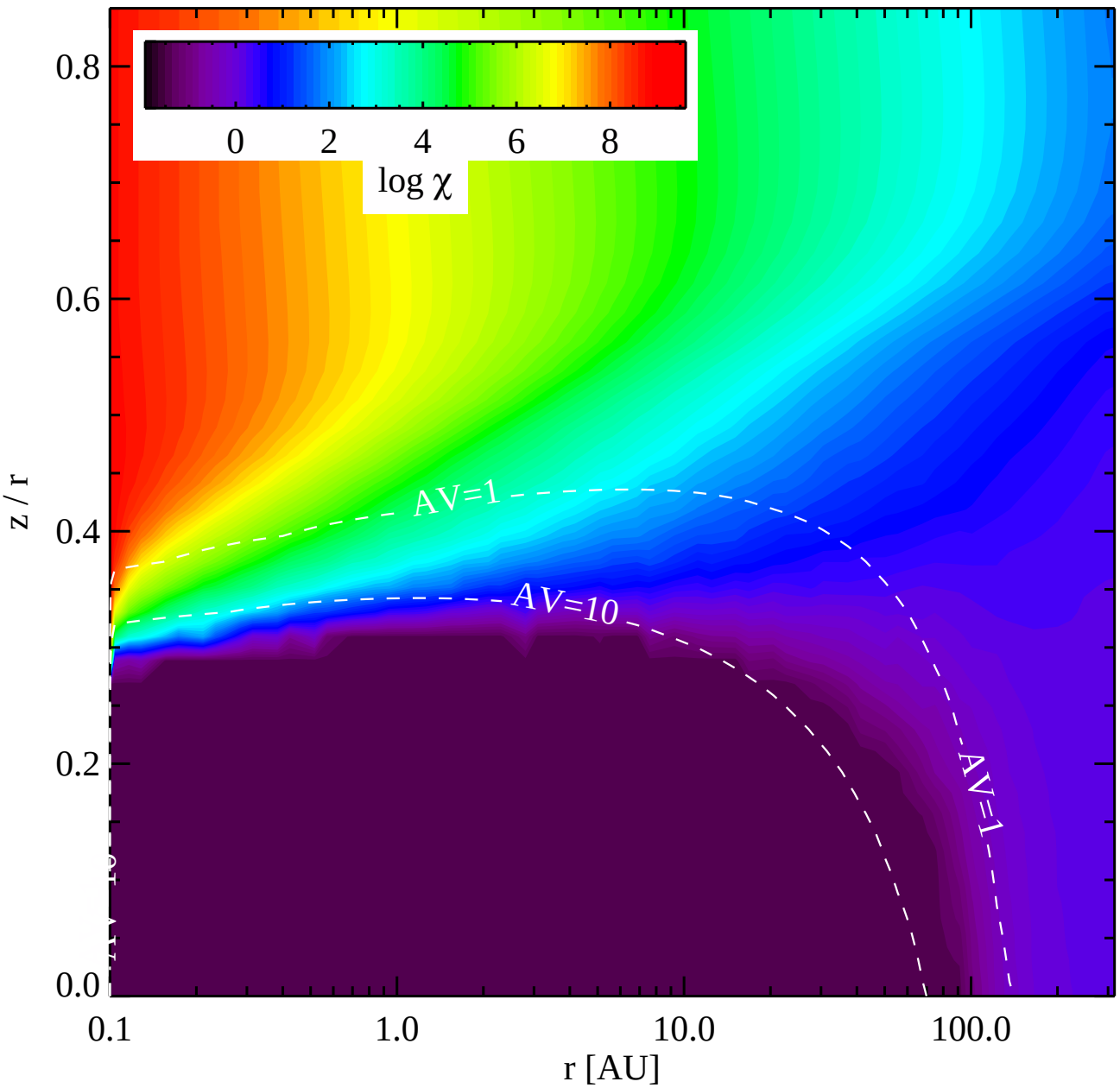

-22 -20 -18 -16 -14 -12 -10
log ρ dust [g/cm3]
0.01
0.01
AV,rad=1
AV=1
AV=10
0.01
AV=1
AV=10
0.0
0.2
0.4
0.6
0.8
z / r
0.1
1.0
10.0
100.0
r [AU]

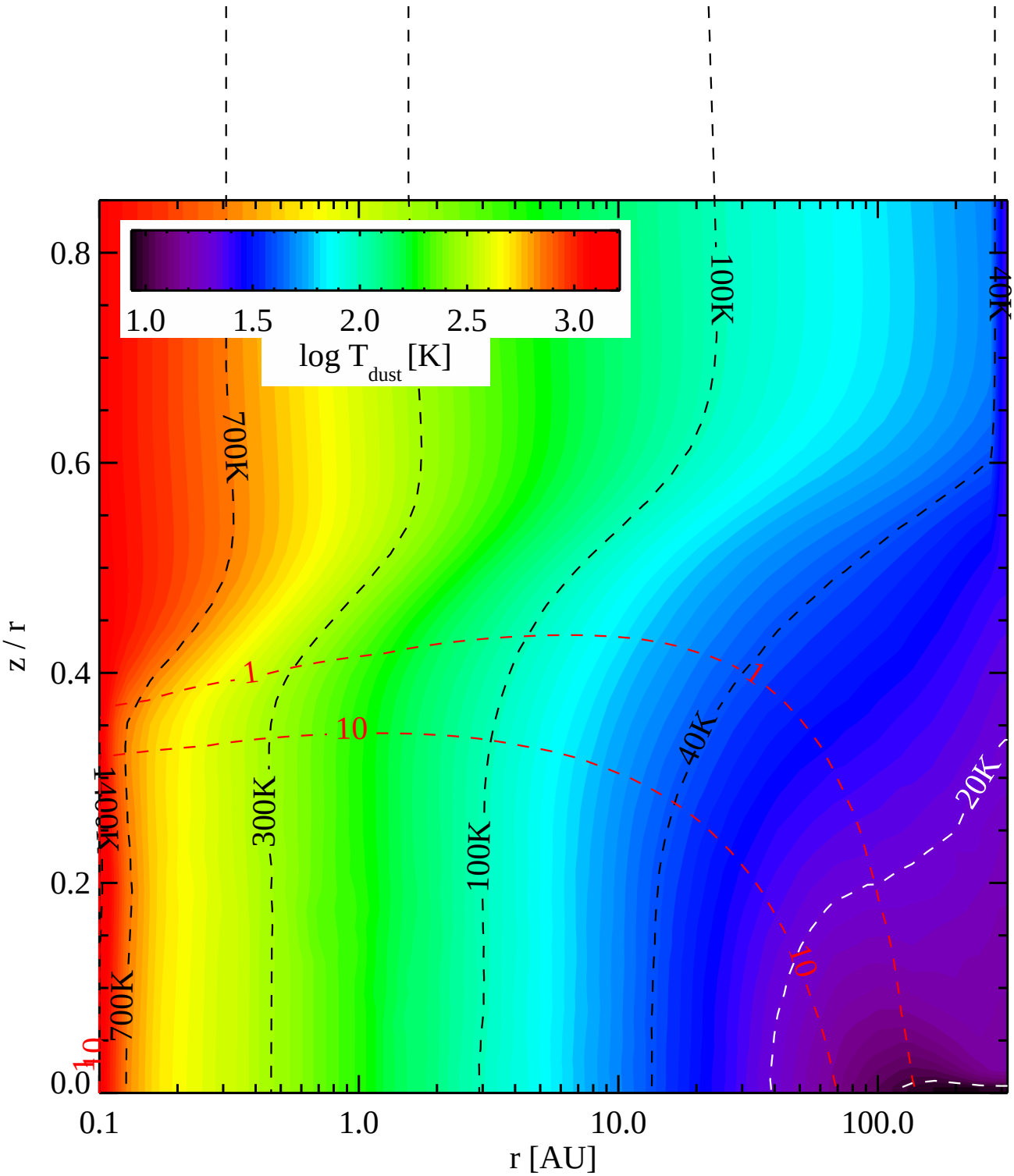

2
4
6
8
log gas/dust
0.8
0.6
0.4
0.2
0.0
z / r
0.1
1.0
10.0
100.0
r [AU]


-1.0
-0.5
0.0
log <a^3>^1/3 [mic]
0.8
0.6
0.4
0.2
0.0
z / r
0.1
1.0
10.0
100.0
r [AU]

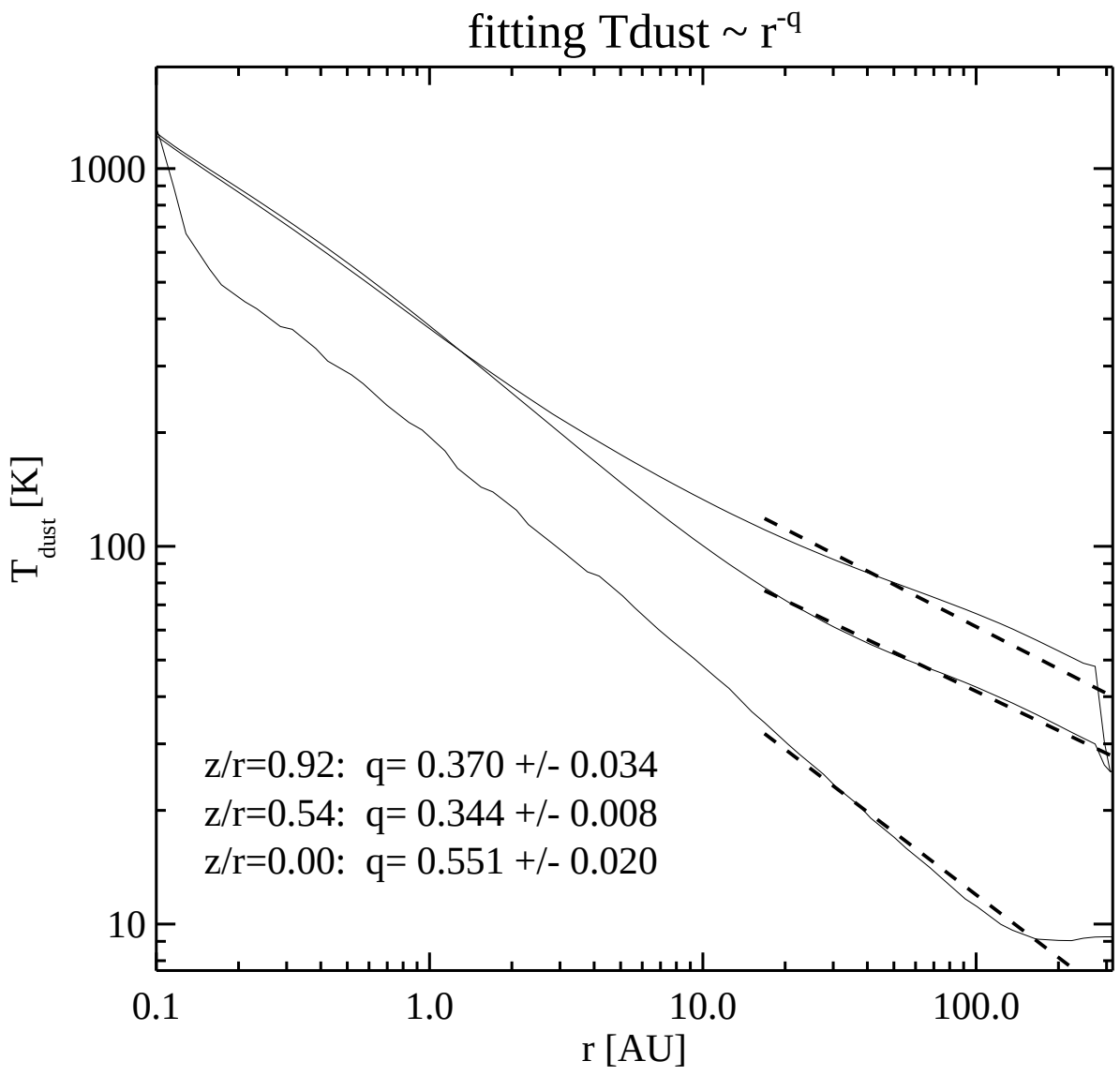

10^{26}
10^{24}
10^{22}
10^{20}
10^{18}
$N_{<H>}$ [cm^{-2}]
0.1
1.0
10.0
100.0
r [AU]
Σ_{dust}/(1.4 amu)

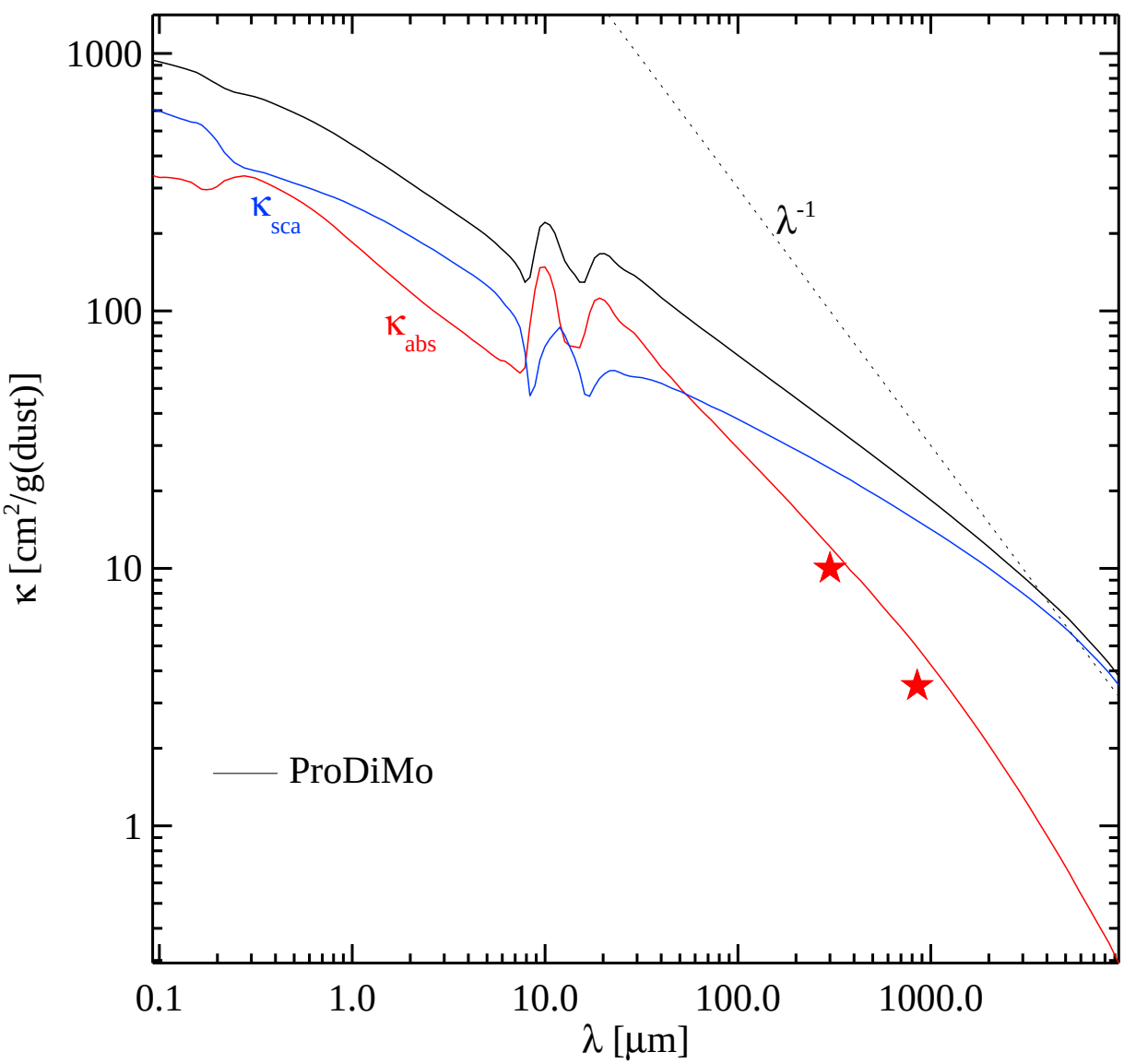

H/r
0.1
0.1
1.0
10.0
100.0
r [AU]
as prescribed in model
from midplane dust temperature
from surface gas temperature

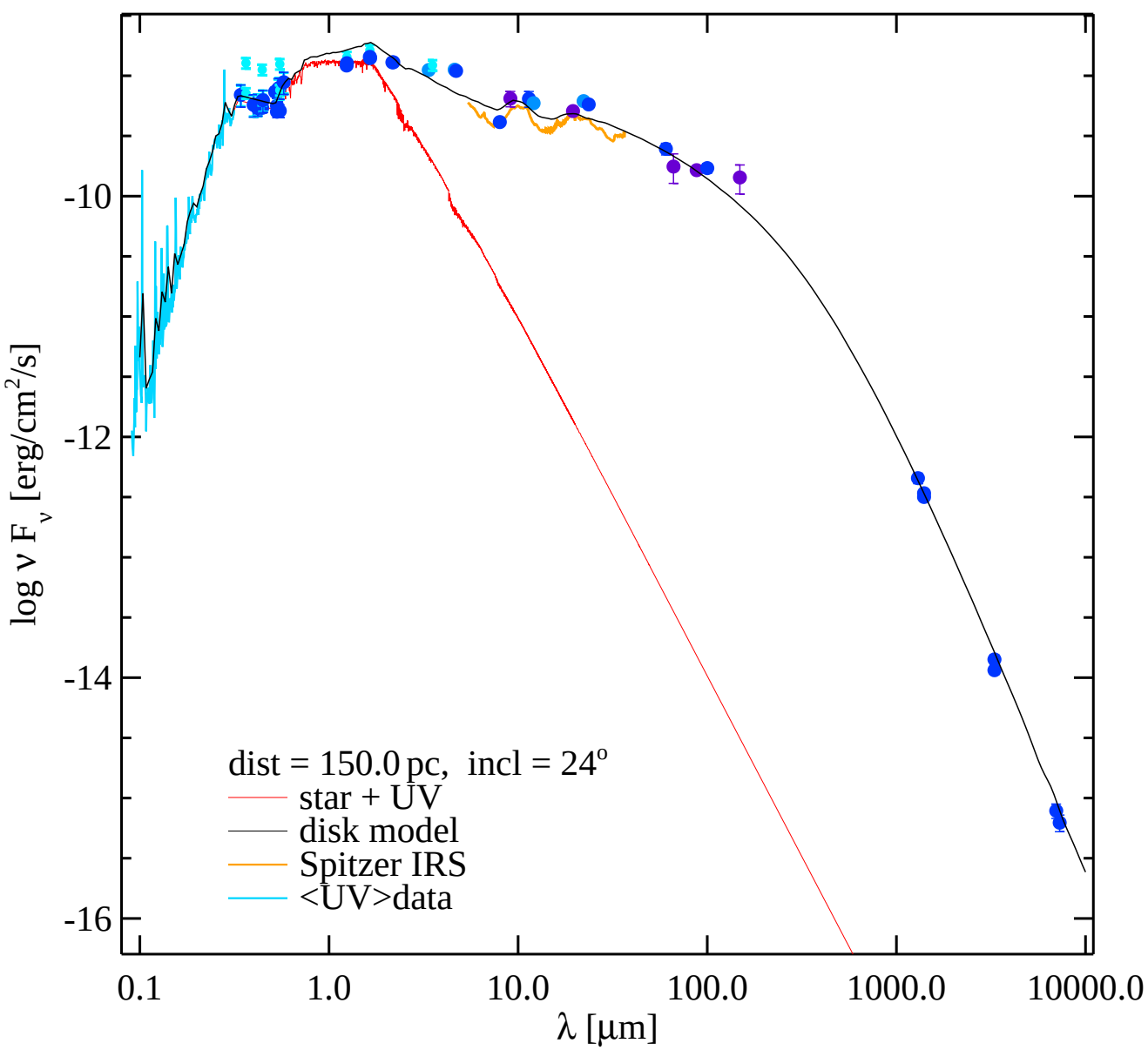

0
2
4
6
8
log χ
0.8
0.6
0.4
0.2
0.0
z / r
AV=1
AV=10
AV=1
0.1
1.0
10.0
100.0
r [AU]

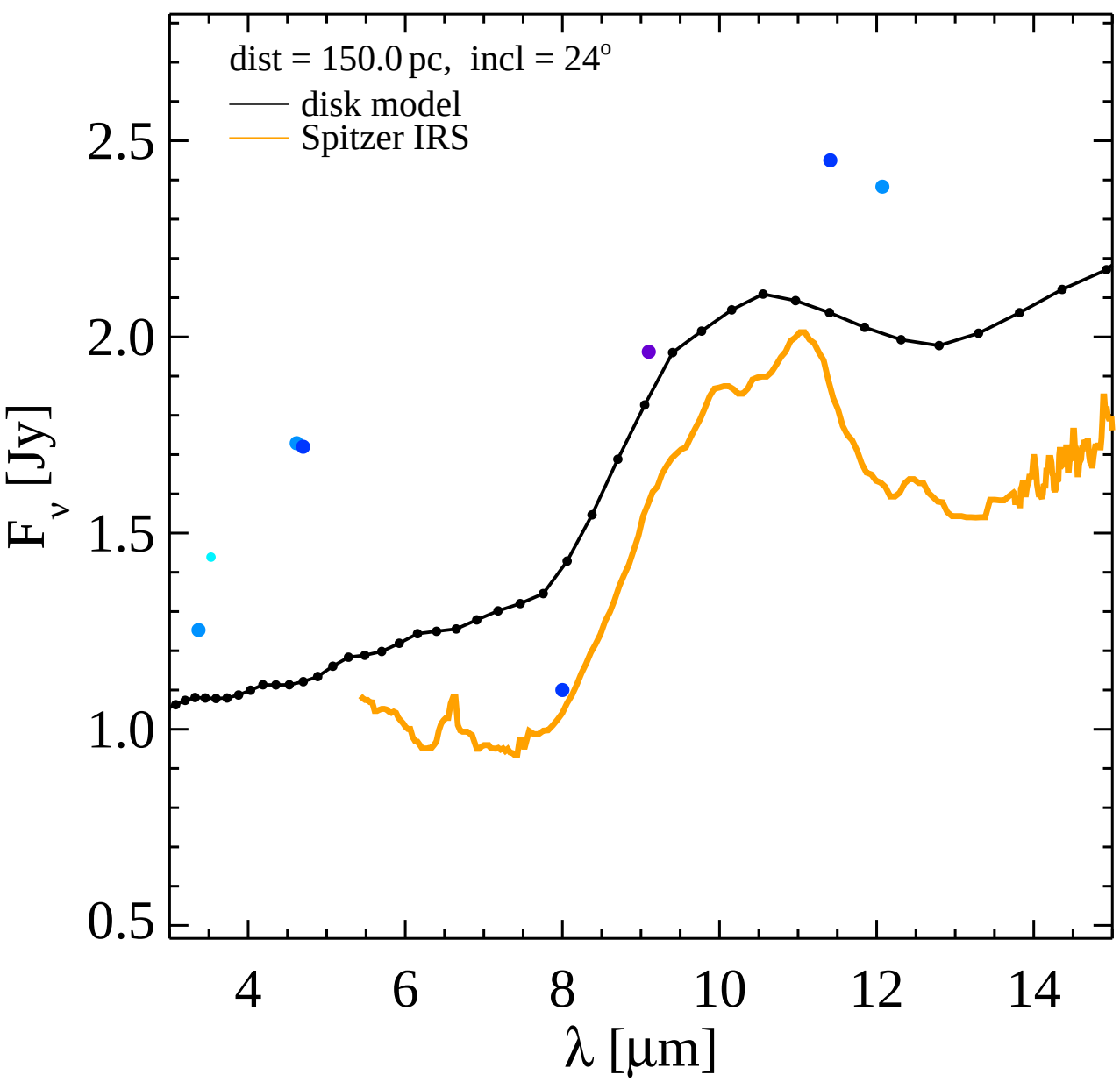


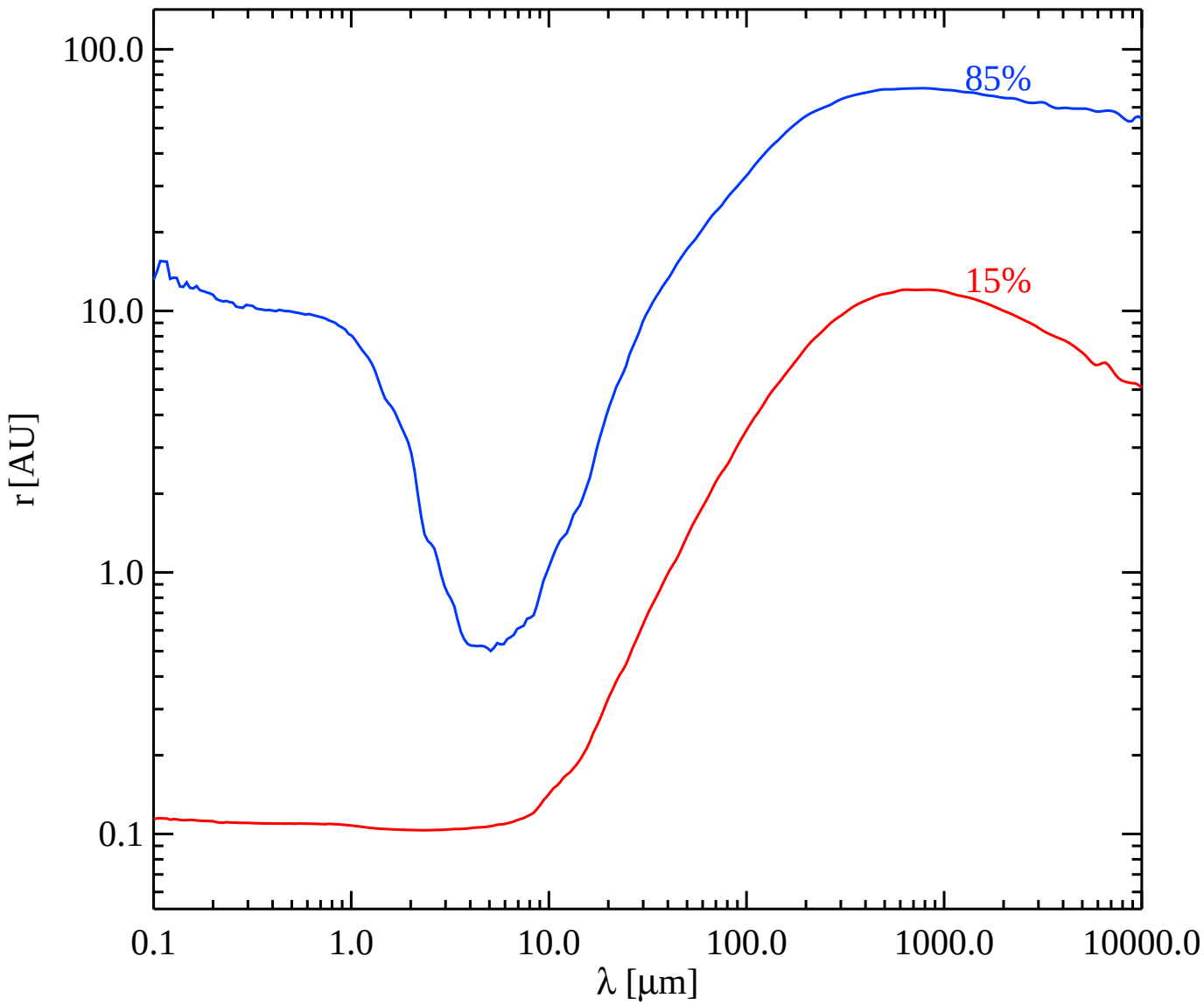
1.0
1.5
2.0
2.5
3.0
log T_dust [K]
0.8
0.6
0.4
0.2
0.0
z / r
0.1
1.0
10.0
100.0
r [AU]
700K
100K
40K
300K
20K
1
10

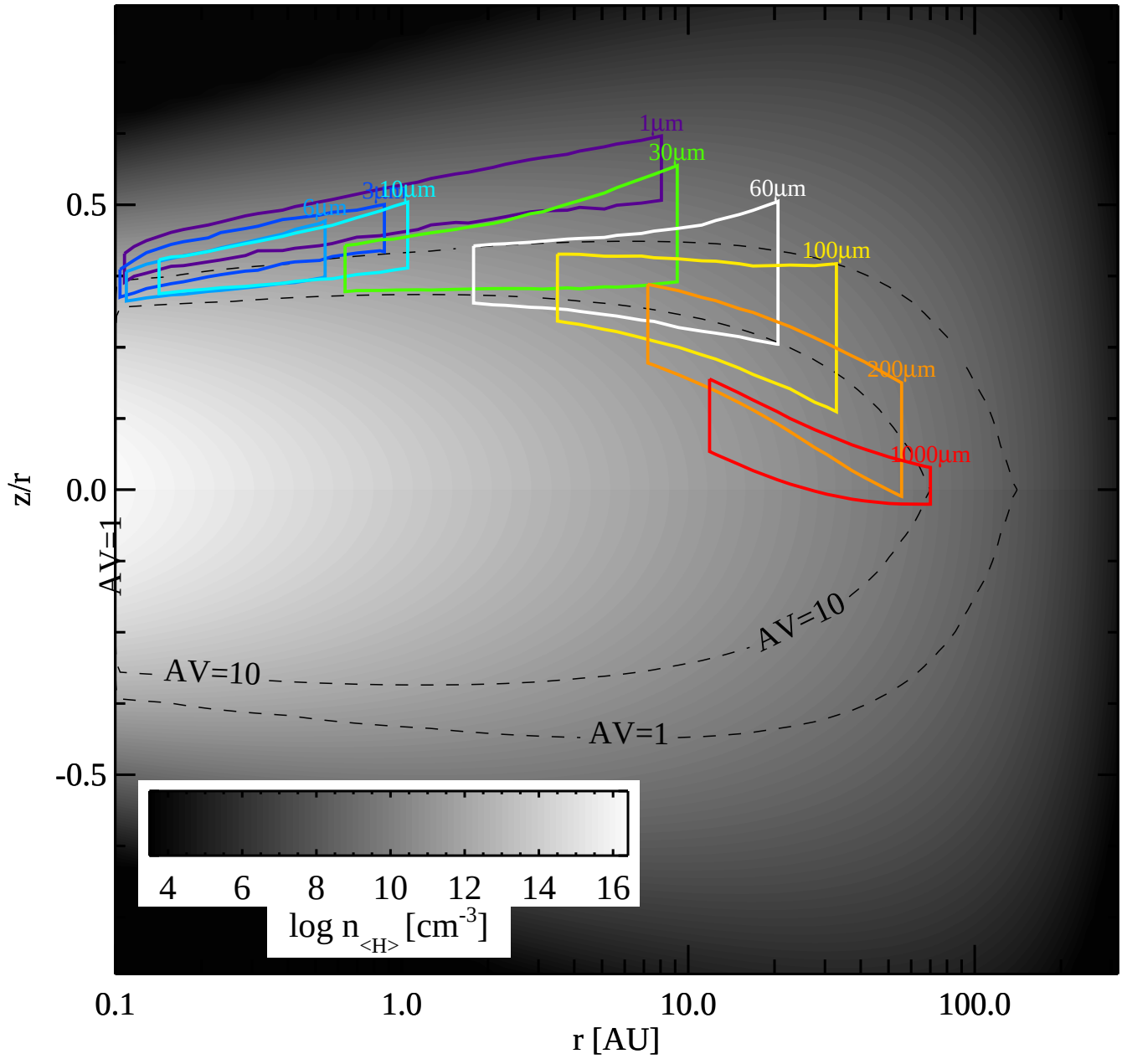

fitting Tdust ~ r^-q
1000
100
10
T dust [K]
0.1
1.0
10.0
100.0
r [AU]
z/r=0.92: q= 0.370 +/- 0.034
z/r=0.54: q= 0.344 +/- 0.008
z/r=0.00: q= 0.551 +/- 0.020

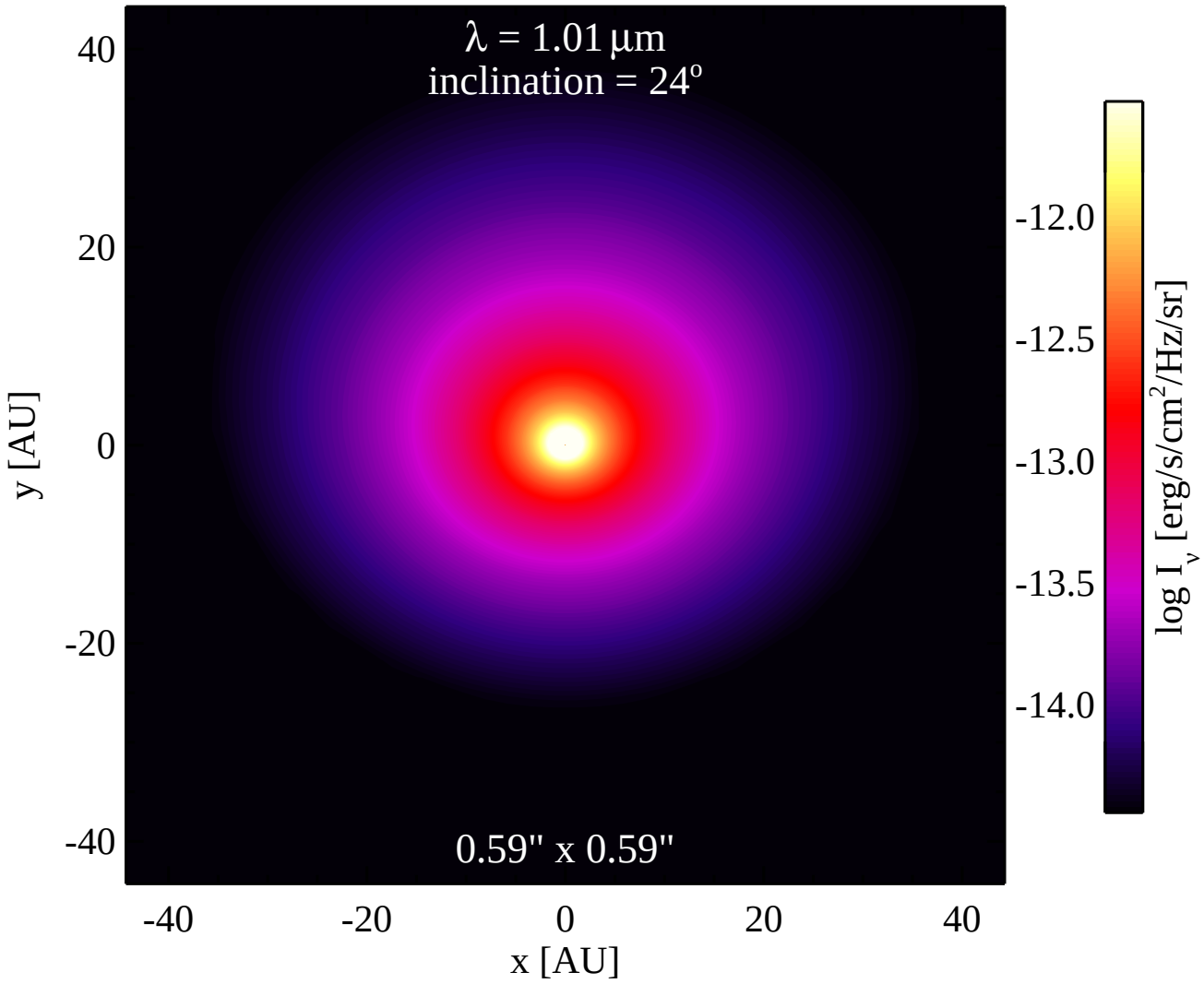

1000
100
10
1
κ [cm²/g(dust)]
κsca
κabs
λ-1
ProDiMo
0.1
1.0
10.0
100.0
1000.0
λ [μm]

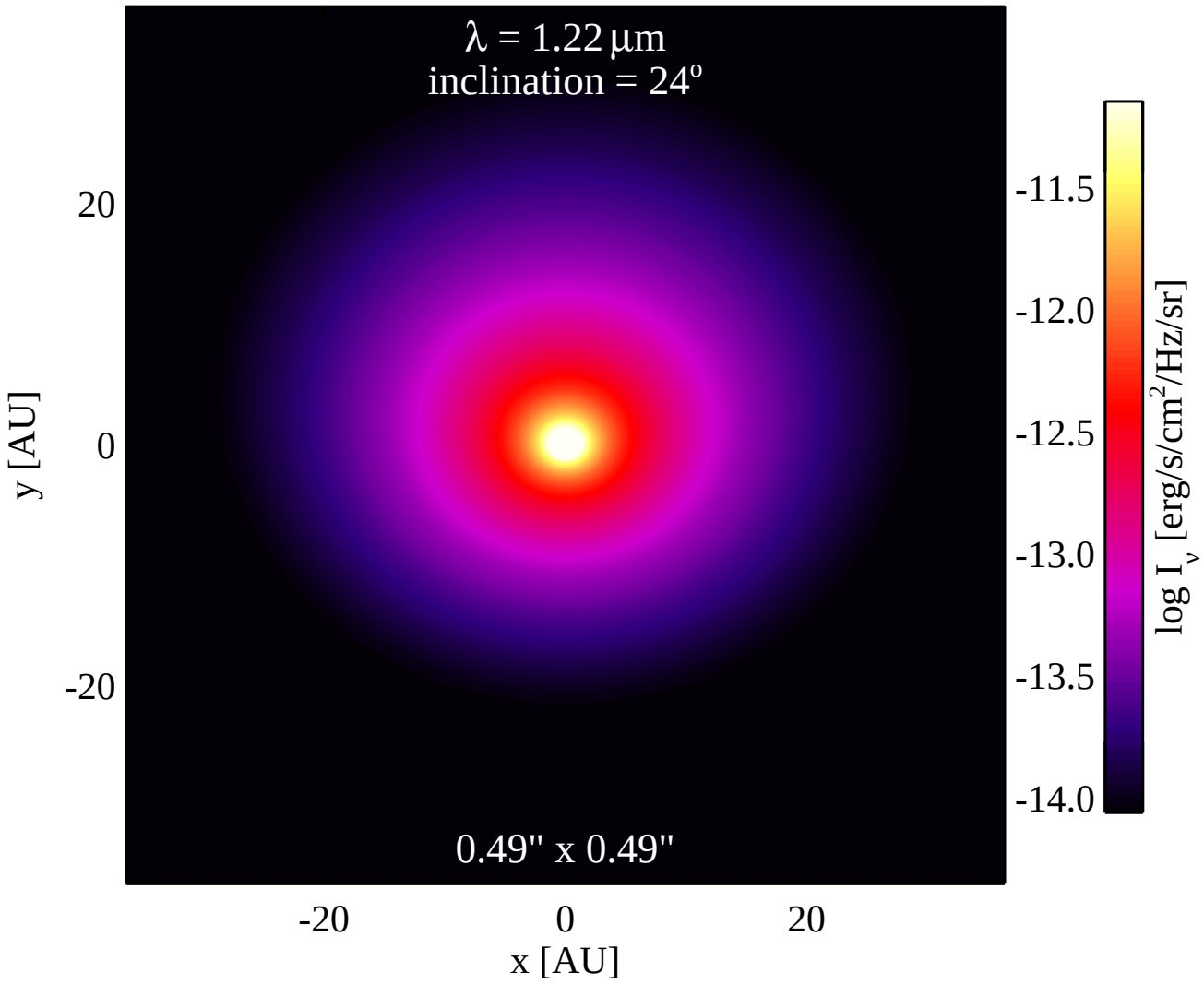

-10
-12
-14
-16
log ν F_ν [erg/cm²/s]
0.1
1.0
10.0
100.0
1000.0
10000.0
λ [μm]
dist = 150.0 pc, incl = 24°
star + UV
disk model
Spitzer IRS
<UV>data

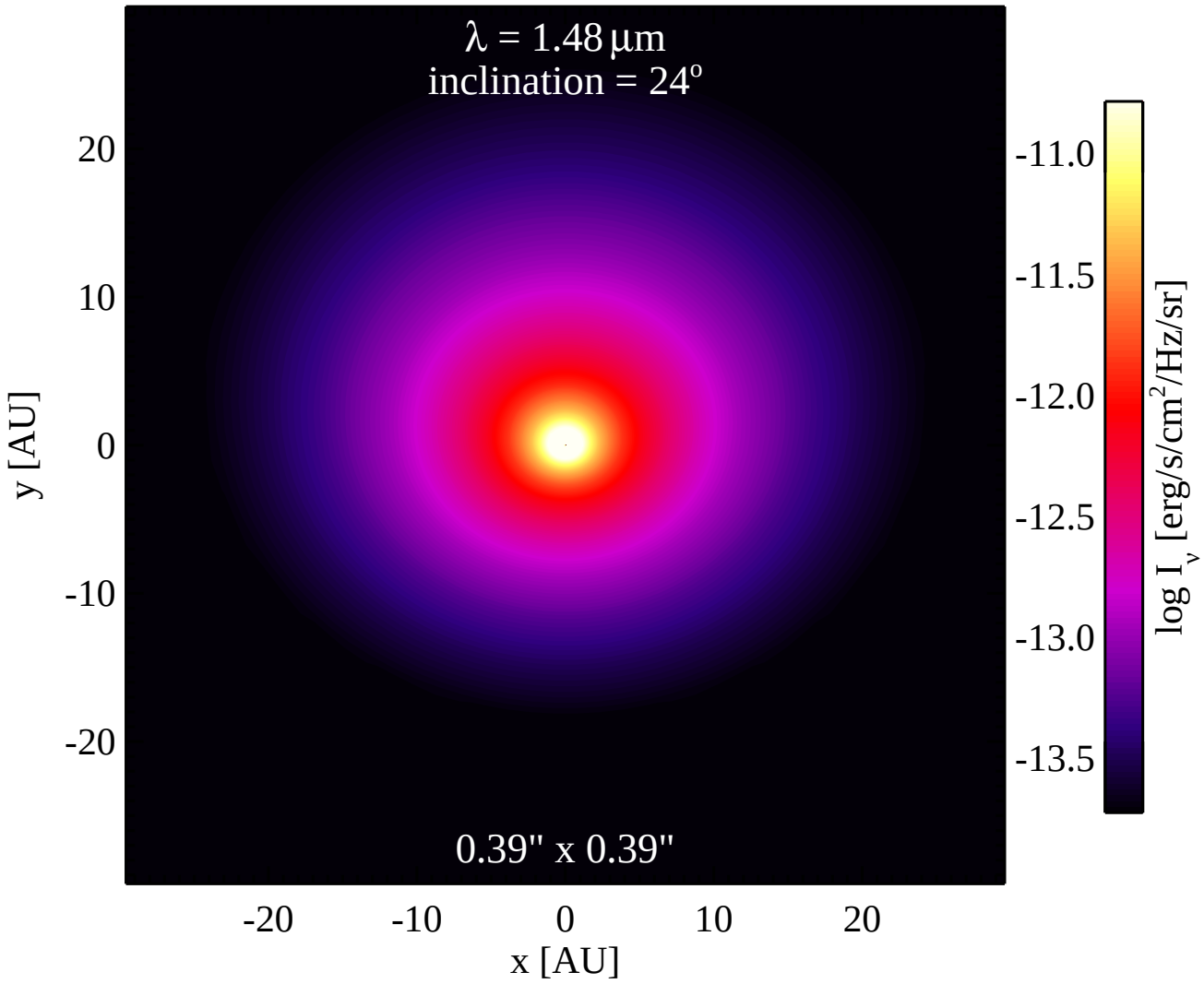

dist = 150.0 pc, incl = 24°
disk model
Spitzer IRS
2.5
2.0
1.5
1.0
0.5
F_ν [Jy]
4
6
8
10
12
14
λ [μm]

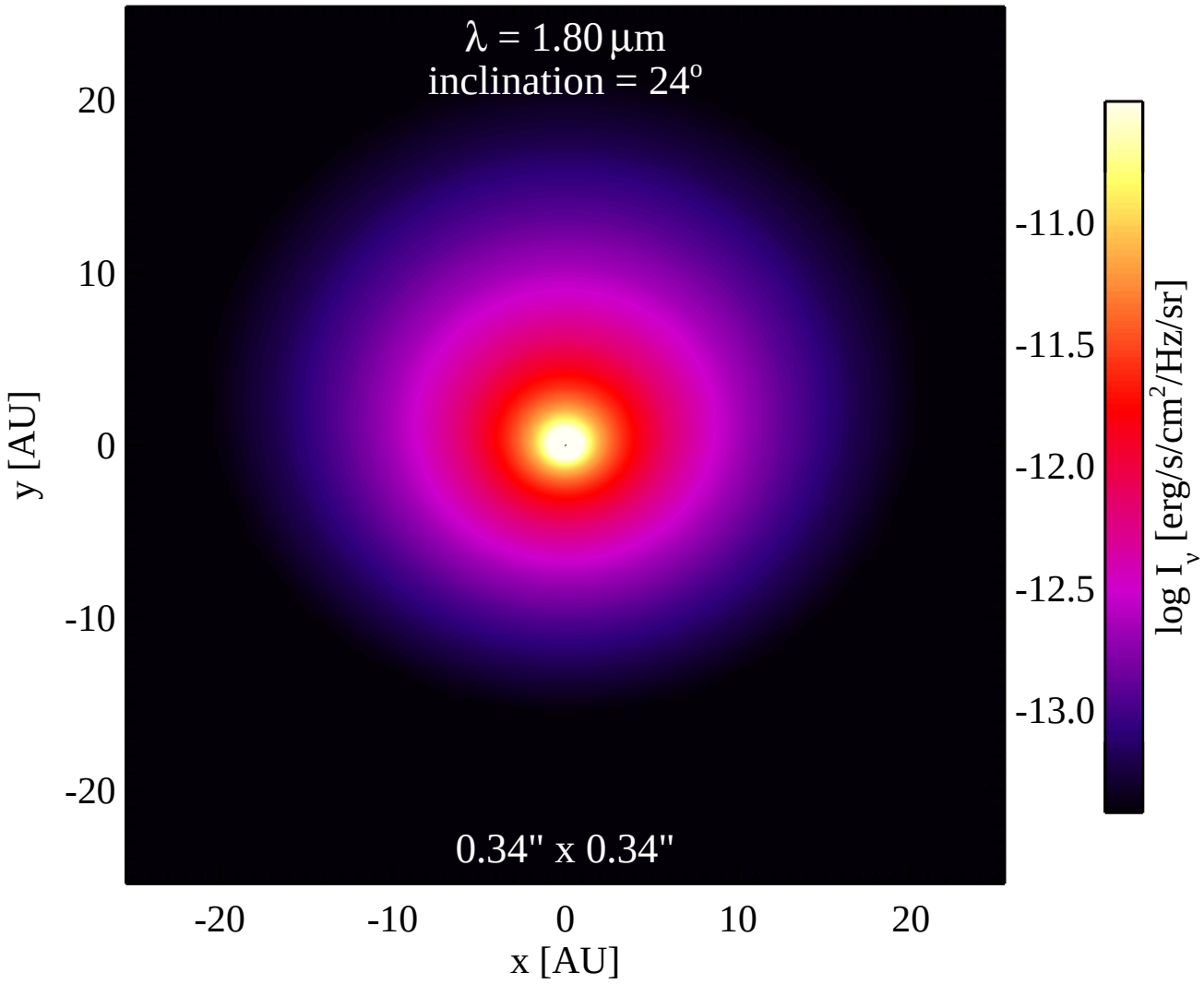

100.0
10.0
1.0
0.1
r [AU]
85%
15%
0.1
1.0
10.0
100.0
1000.0
10000.0
λ [μm]

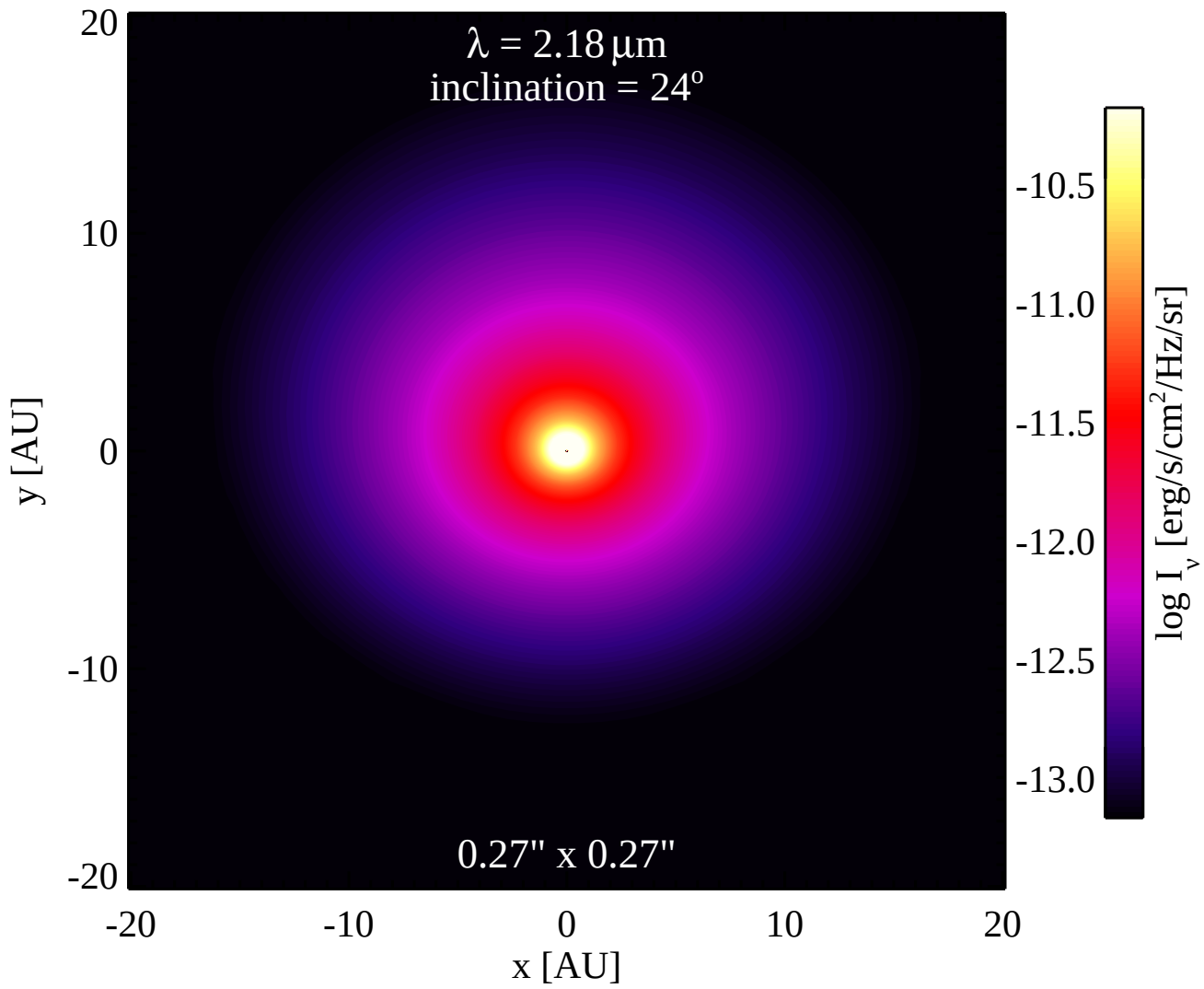

1µm
30µm
3µm
10µm
60µm
100µm
200µm
1000µm
AV=10
AV=1
AV=10
AV=1
0.5
0.0
-0.5
z/r
0.1
1.0
10.0
100.0
r [AU]
4
6
8
10
12
14
16
log n <H> [cm-3]

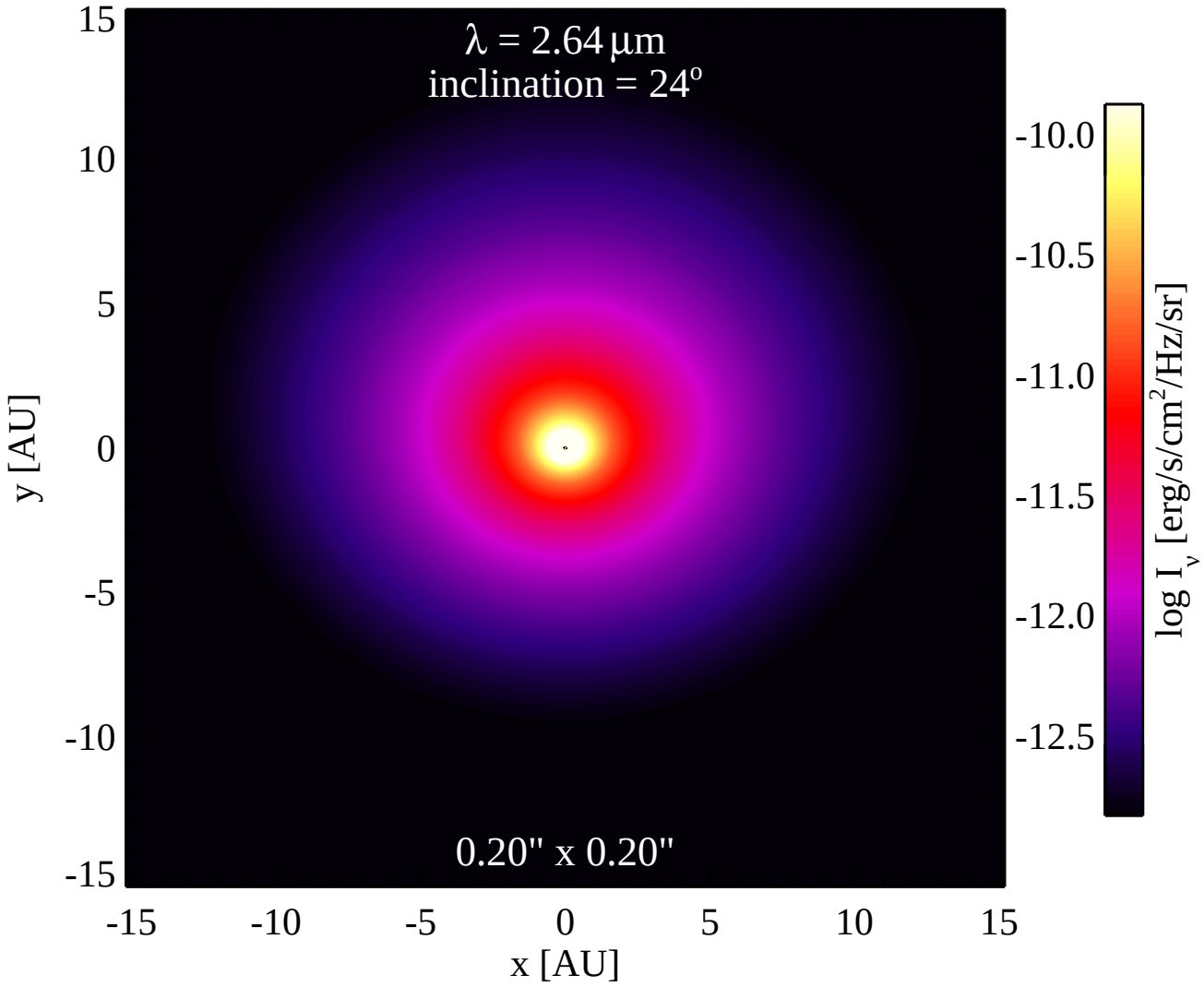

λ = 1.01 μm
inclination = 24°
0.59" x 0.59"
40
20
0
-20
-40
y [AU]
-40
-20
0
20
40
x [AU]
-12.0
-12.5
-13.0
-13.5
-14.0
log I_ν [erg/s/cm²/Hz/sr]

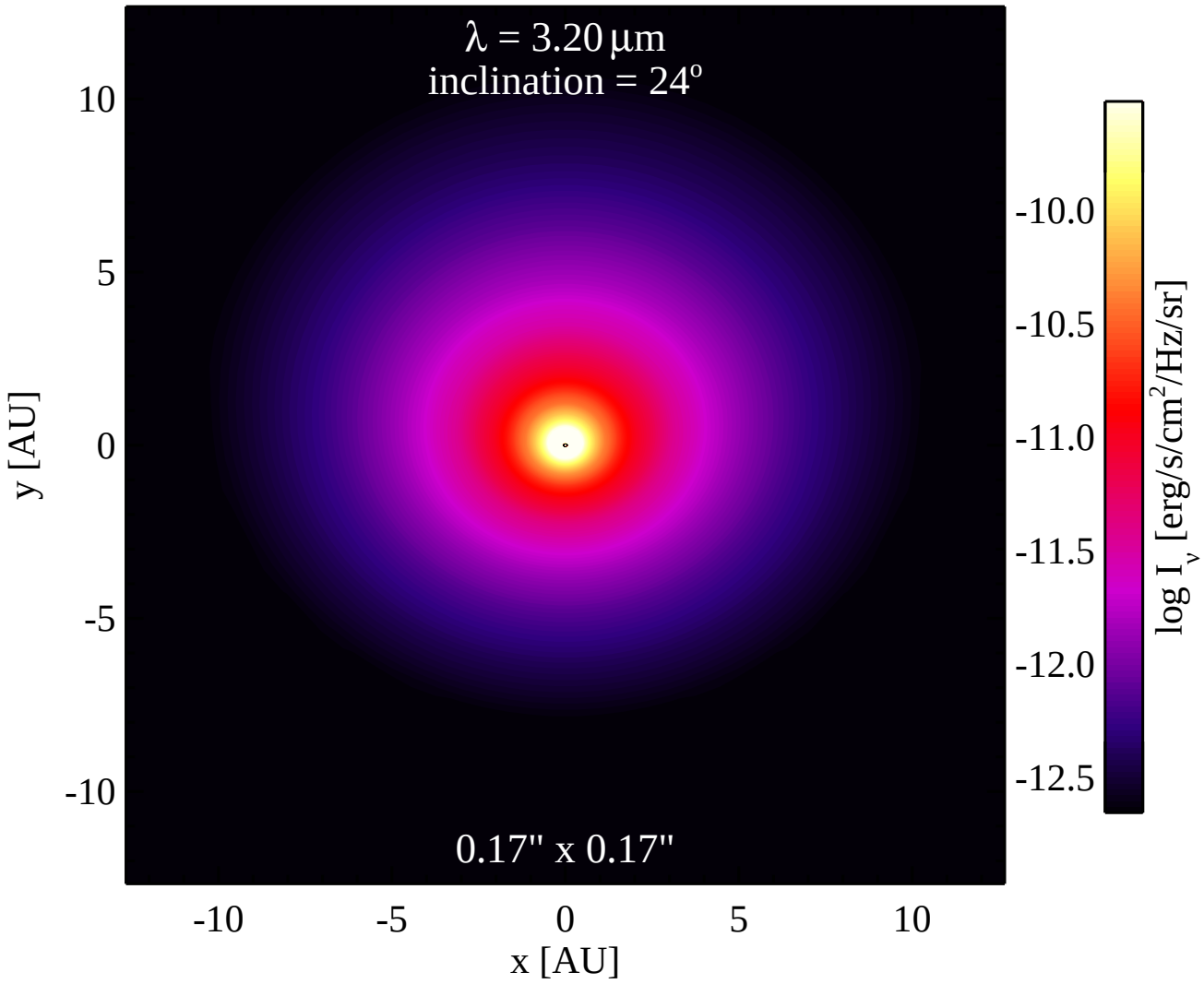

λ = 1.22 μm
inclination = 24°
0.49" x 0.49"
20
0
-20
y [AU]
-20
0
20
x [AU]
-11.5
-12.0
-12.5
-13.0
-13.5
-14.0
log I_ν [erg/s/cm²/Hz/sr]

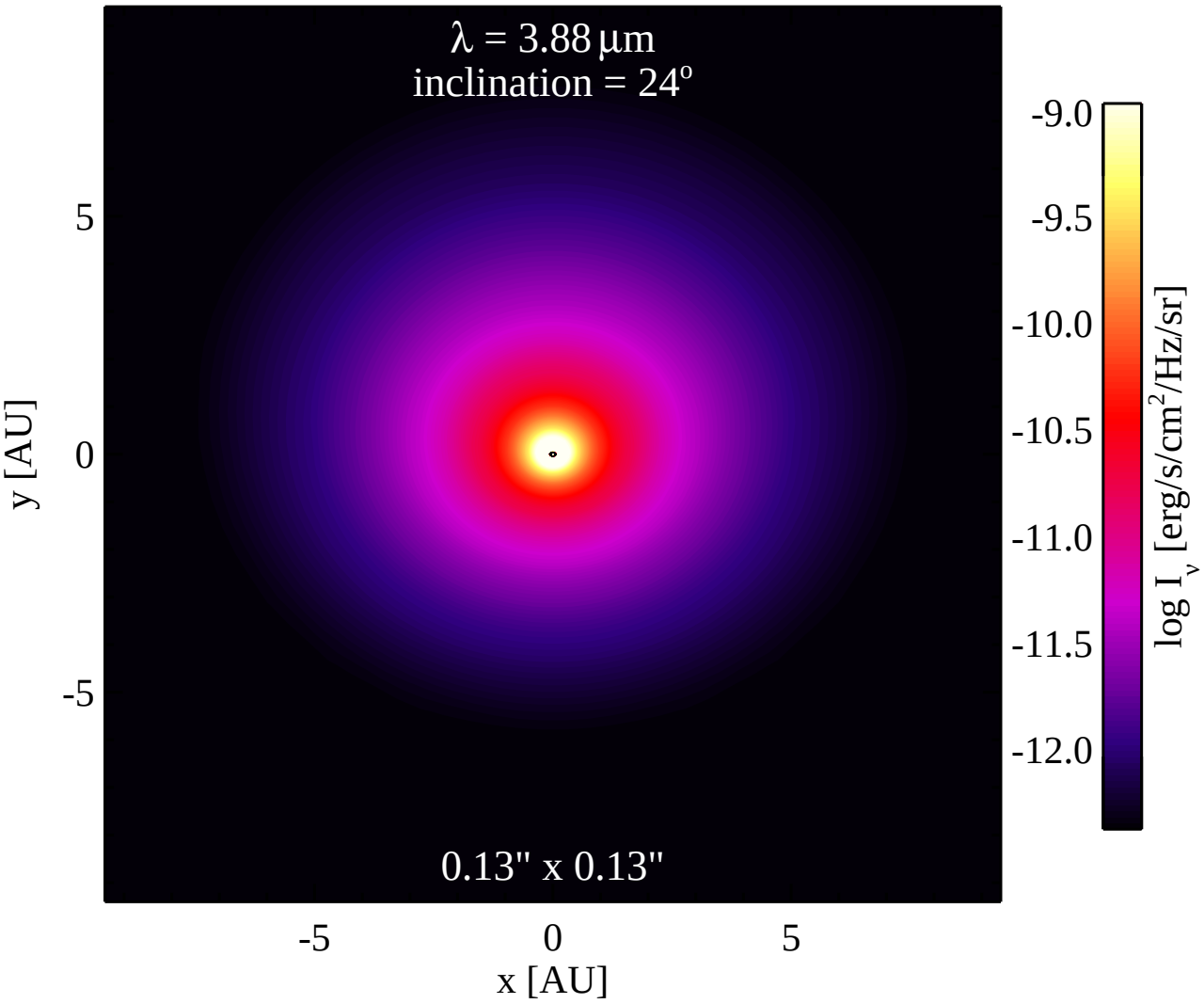

λ = 1.48 μm
inclination = 24°
0.39" x 0.39"
20
10
0
-10
-20
y [AU]
-20
-10
0
10
20
x [AU]
-11.0
-11.5
-12.0
-12.5
-13.0
-13.5
log I_ν [erg/s/cm²/Hz/sr]

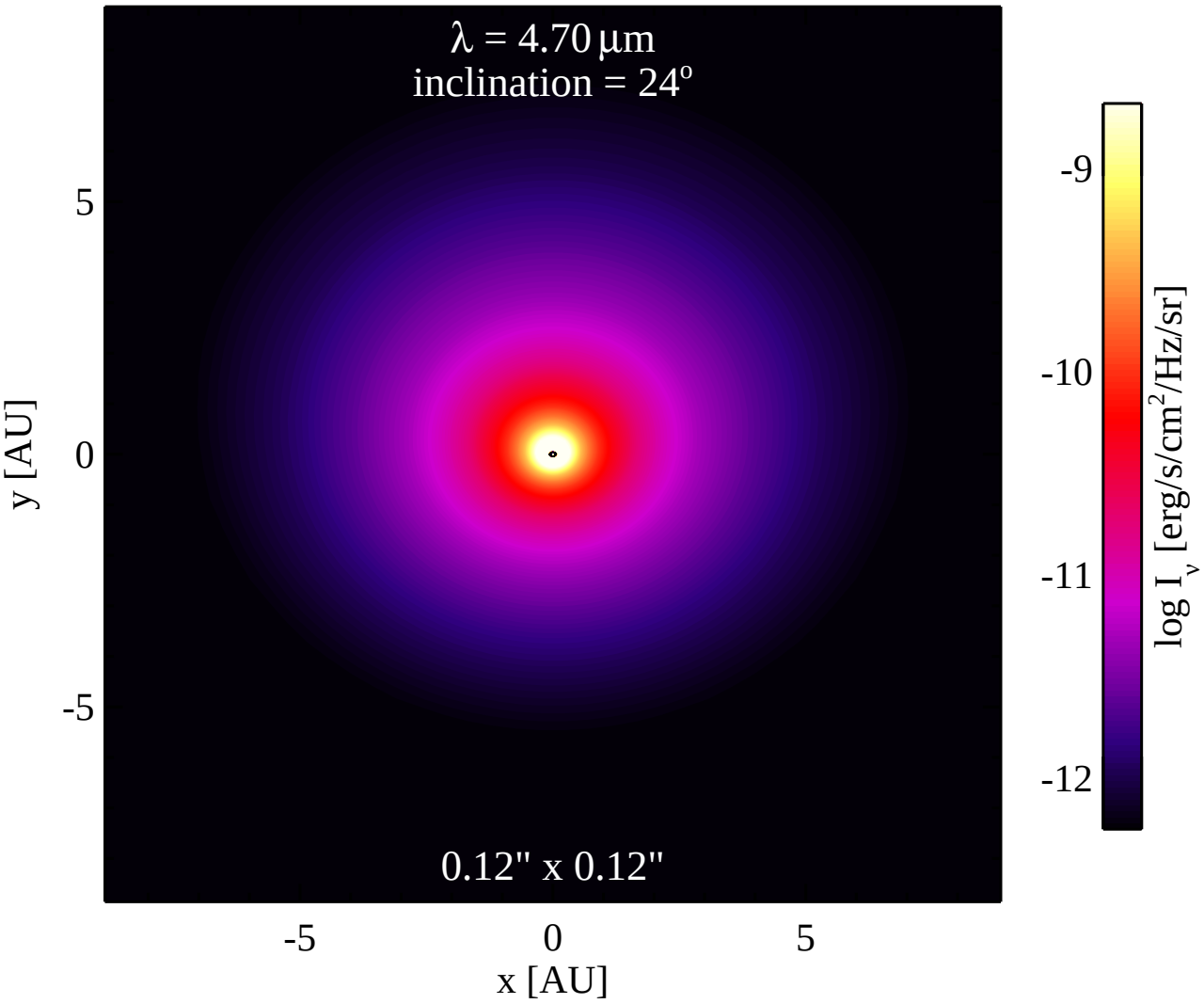

λ = 1.80 μm
inclination = 24°
0.34" x 0.34"
20
10
0
-10
-20
y [AU]
-20
-10
0
10
20
x [AU]
-11.0
-11.5
-12.0
-12.5
-13.0
log I_ν [erg/s/cm²/Hz/sr]

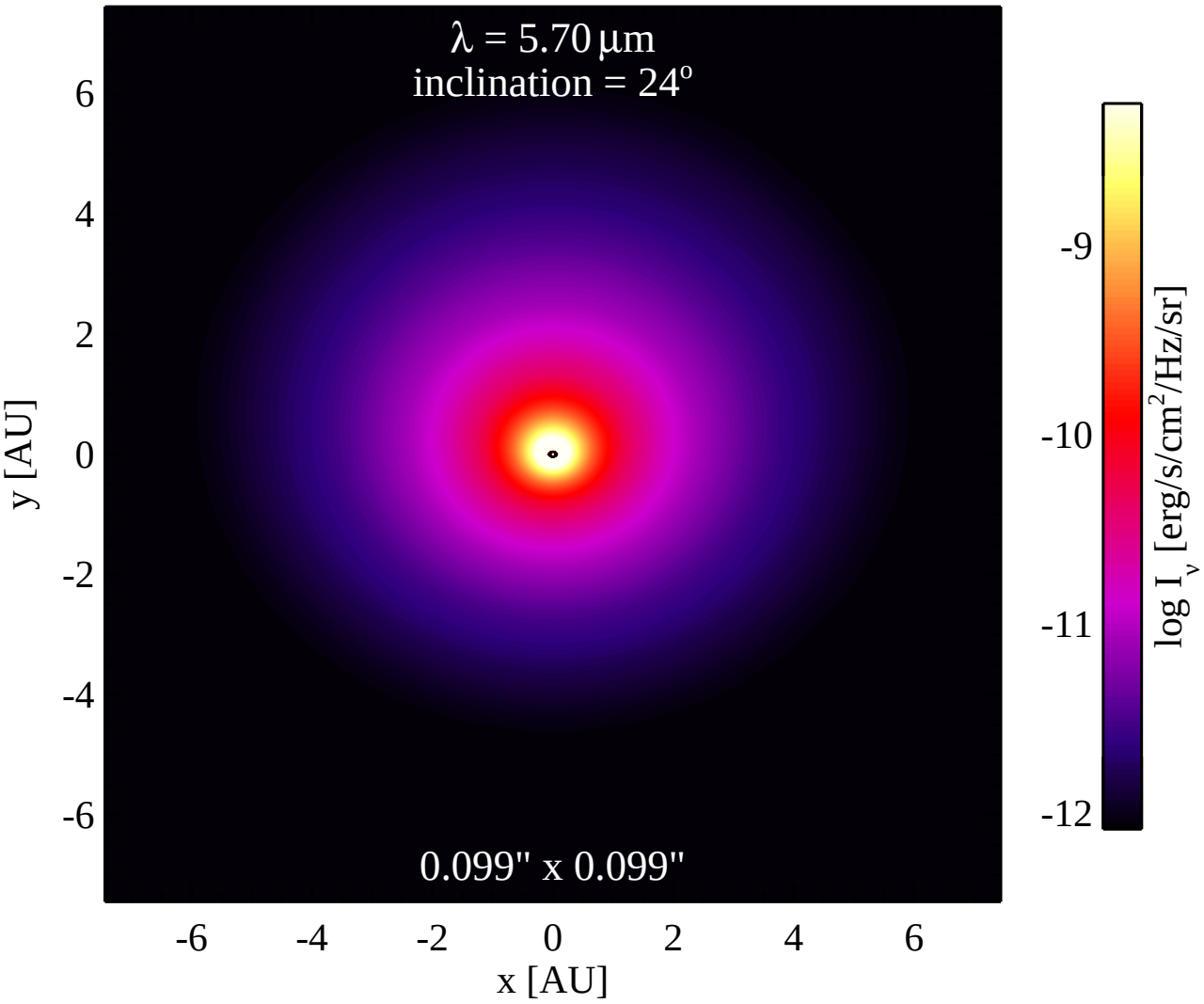

λ = 2.18 μm
inclination = 24°
0.27" x 0.27"
20
10
0
-10
-20
y [AU]
-20
-10
0
10
20
x [AU]
-10.5
-11.0
-11.5
-12.0
-12.5
-13.0
log I_ν [erg/s/cm²/Hz/sr]

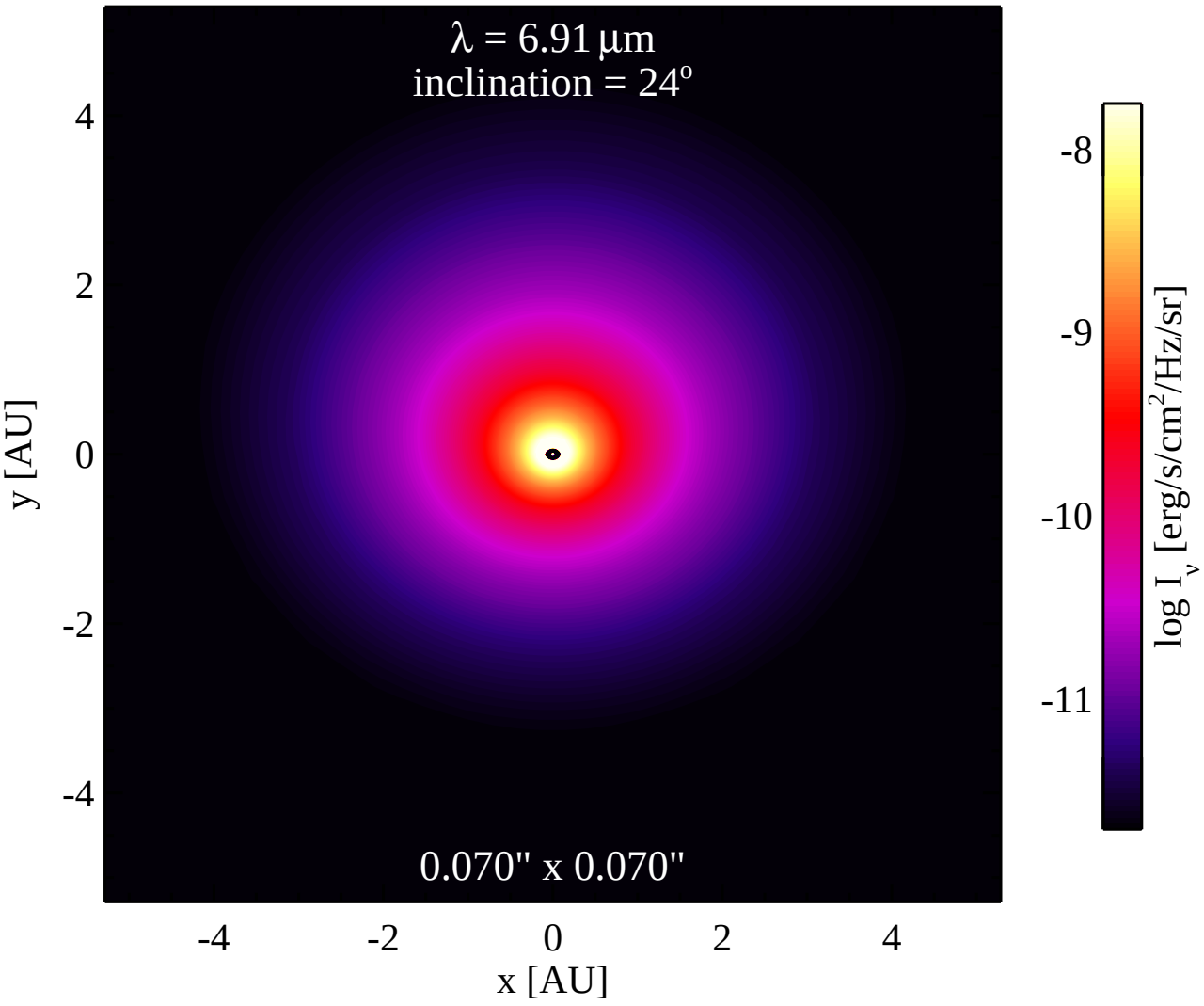

λ = 2.64 μm
inclination = 24°
0.20" x 0.20"
15
10
5
0
-5
-10
-15
y [AU]
-15
-10
-5
0
5
10
15
x [AU]
-10.0
-10.5
-11.0
-11.5
-12.0
-12.5
log I_ν [erg/s/cm²/Hz/sr]

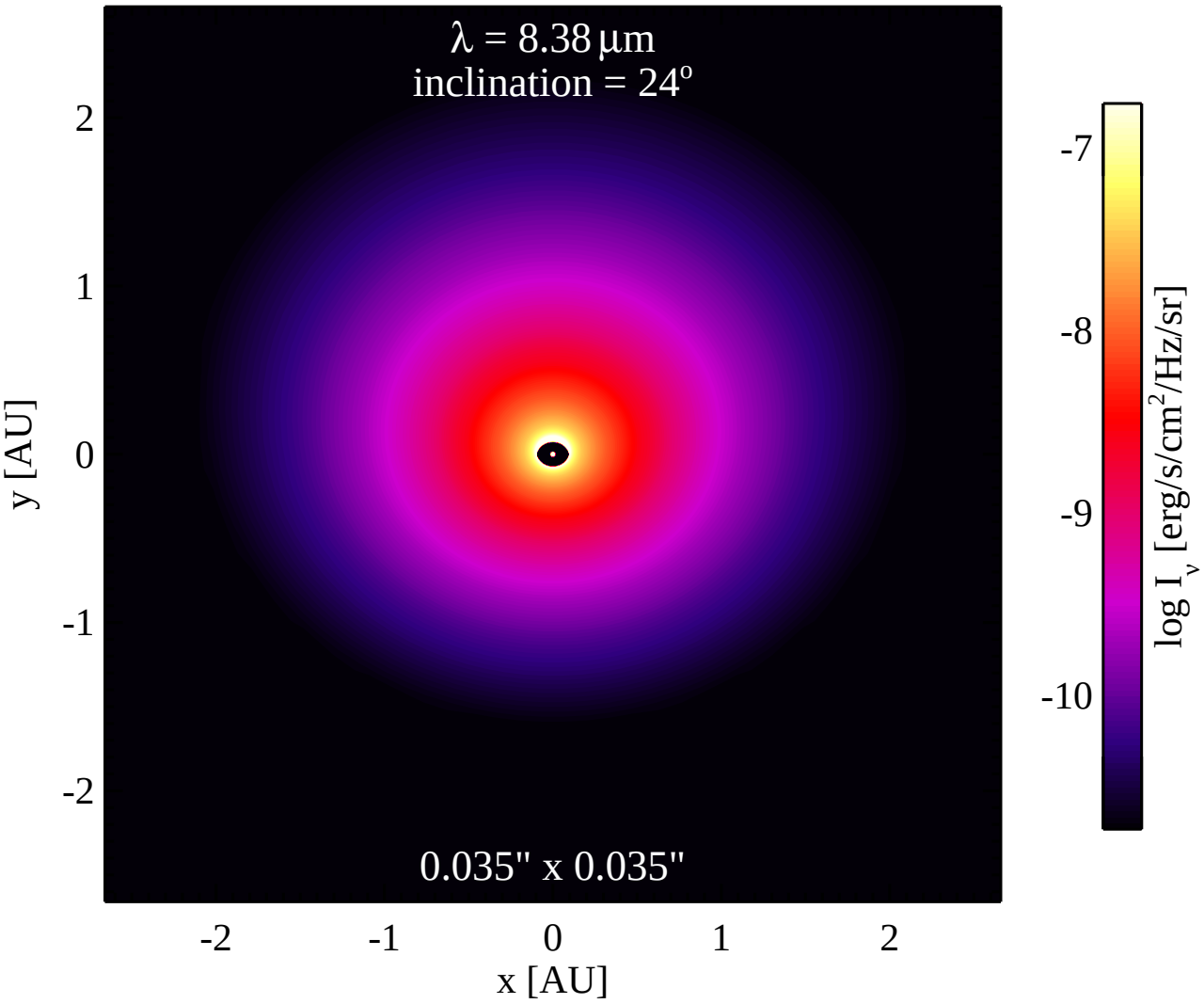

λ = 3.20 μm
inclination = 24°
0.17" x 0.17"
10
5
0
-5
-10
y [AU]
-10
-5
0
5
10
x [AU]
-10.0
-10.5
-11.0
-11.5
-12.0
-12.5
log I_ν [erg/s/cm²/Hz/sr]

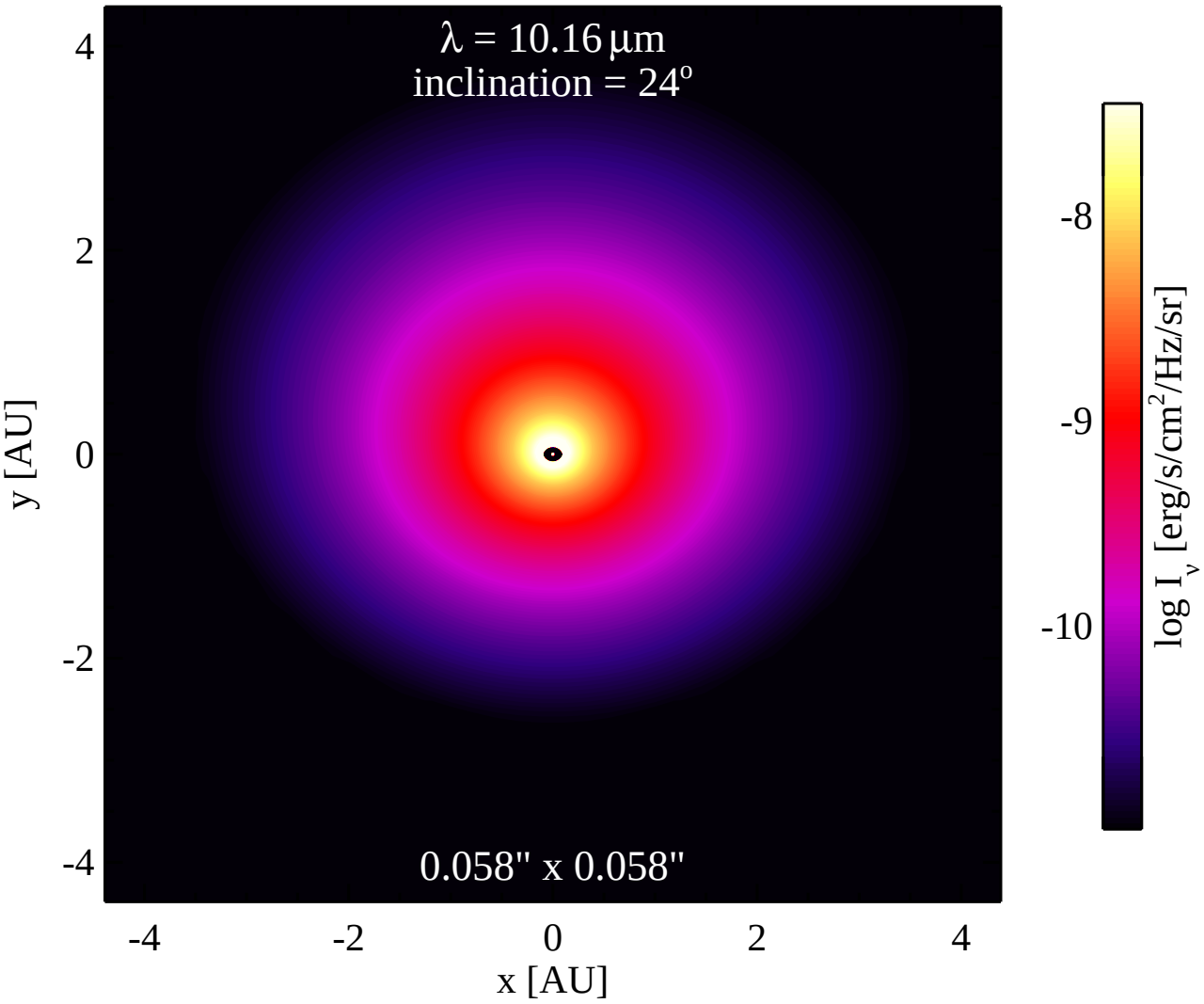

λ = 3.88 μm
inclination = 24°
0.13" x 0.13"
y [AU]
5
0
-5
-5
0
5
x [AU]
-9.0
-9.5
-10.0
-10.5
-11.0
-11.5
-12.0
log I_ν [erg/s/cm²/Hz/sr]

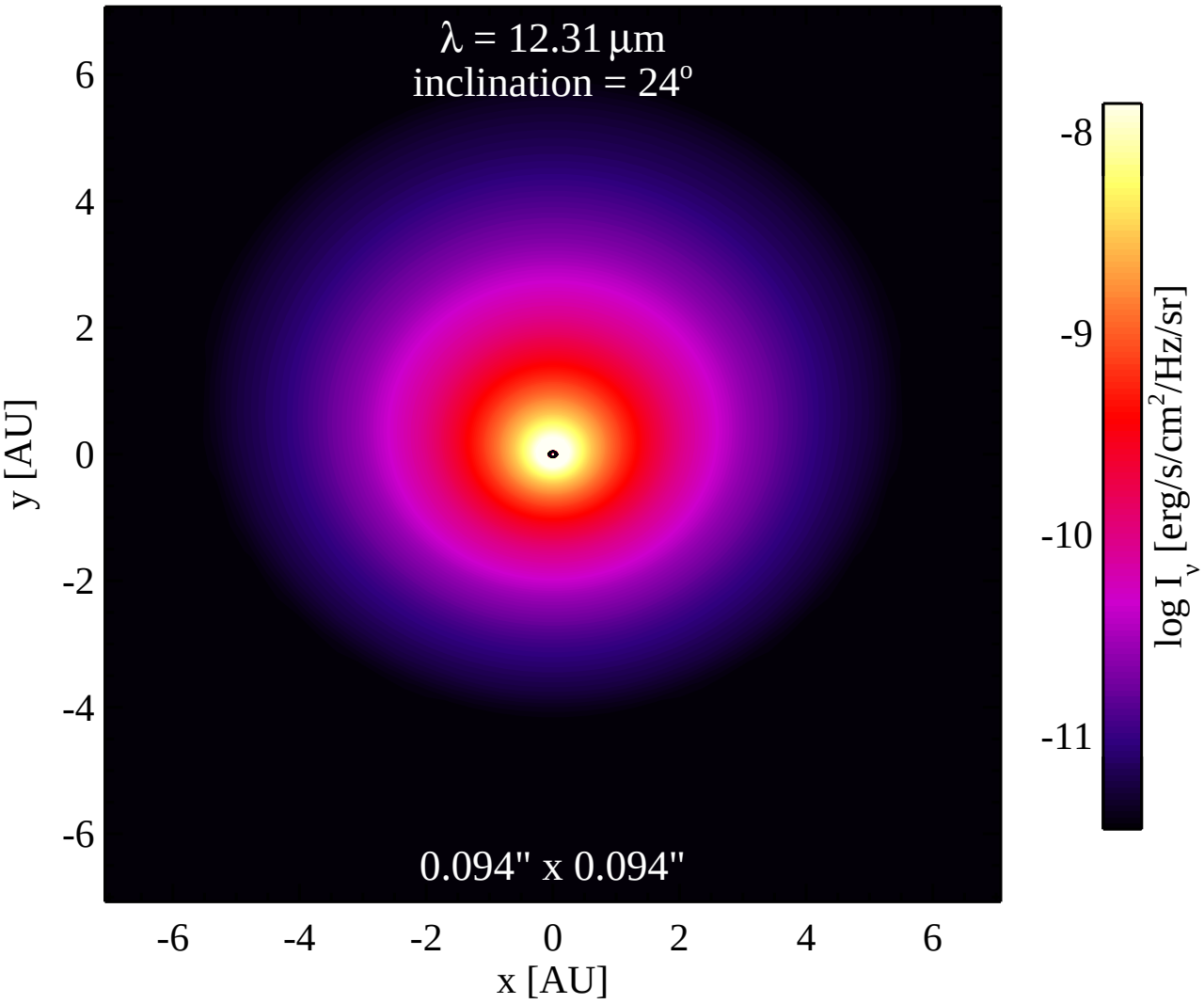

λ = 4.70 μm
inclination = 24°
0.12" x 0.12"
5
0
-5
y [AU]
-5
0
5
x [AU]
-9
-10
-11
-12
log I_ν [erg/s/cm²/Hz/sr]

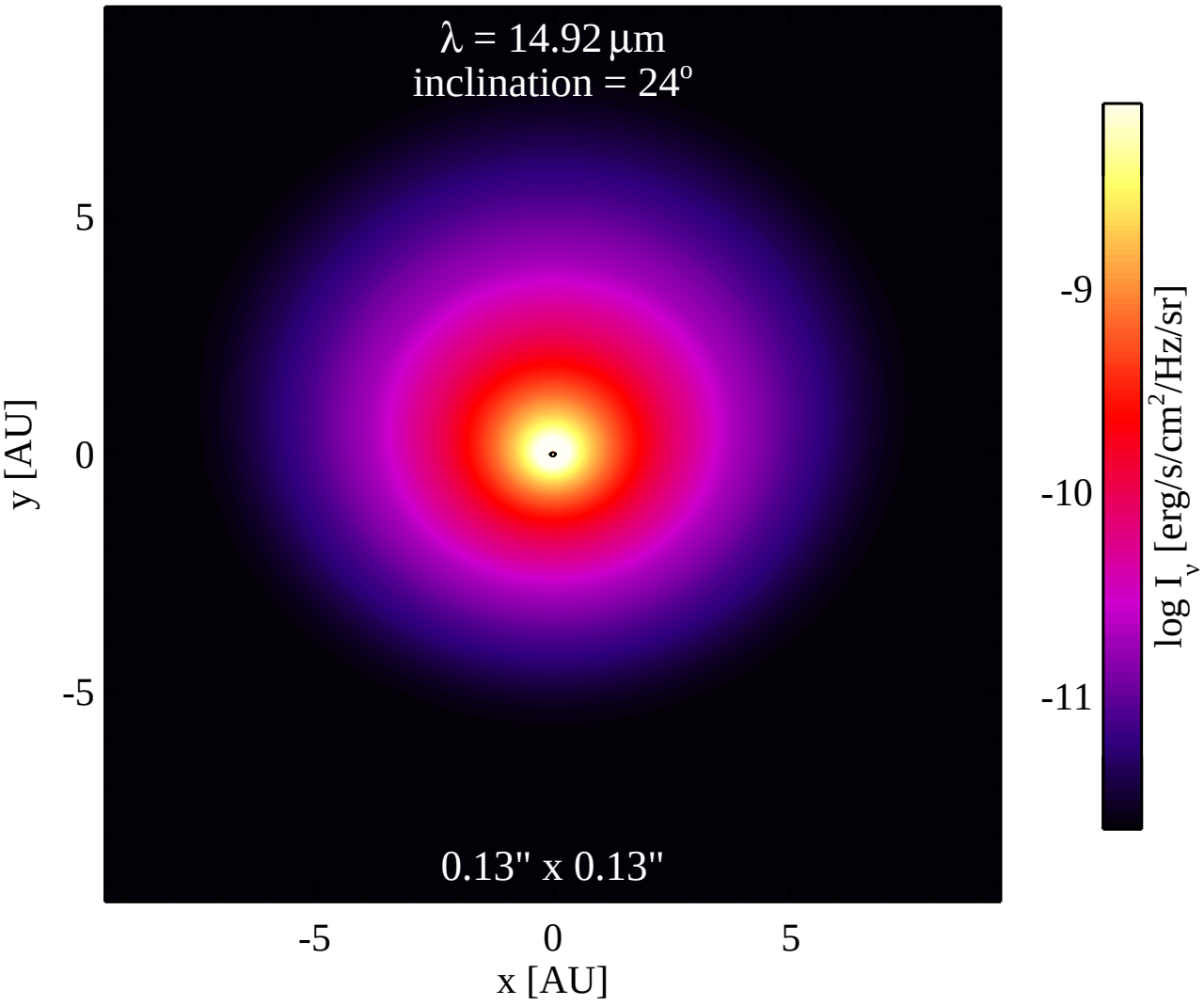

λ = 5.70 μm
inclination = 24°
0.099" x 0.099"
y [AU]
x [AU]
6
4
2
0
-2
-4
-6
-6
-4
-2
0
2
4
6
-9
-10
-11
-12
log I_ν [erg/s/cm²/Hz/sr]

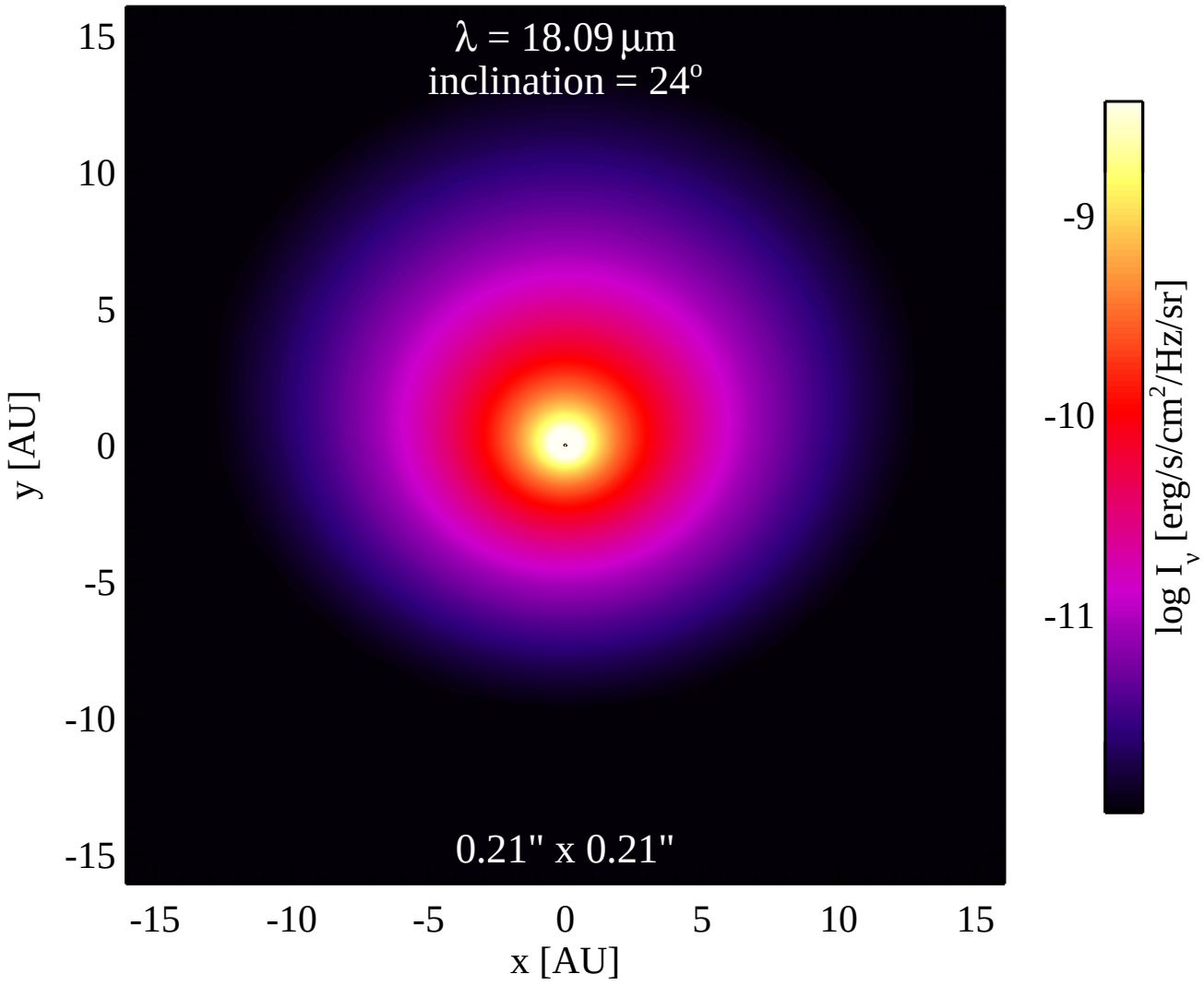

λ = 6.91 μm
inclination = 24°
0.070" x 0.070"
y [AU]
x [AU]
4
2
0
-2
-4
-4
-2
0
2
4
-8
-9
-10
-11
log I_ν [erg/s/cm²/Hz/sr]

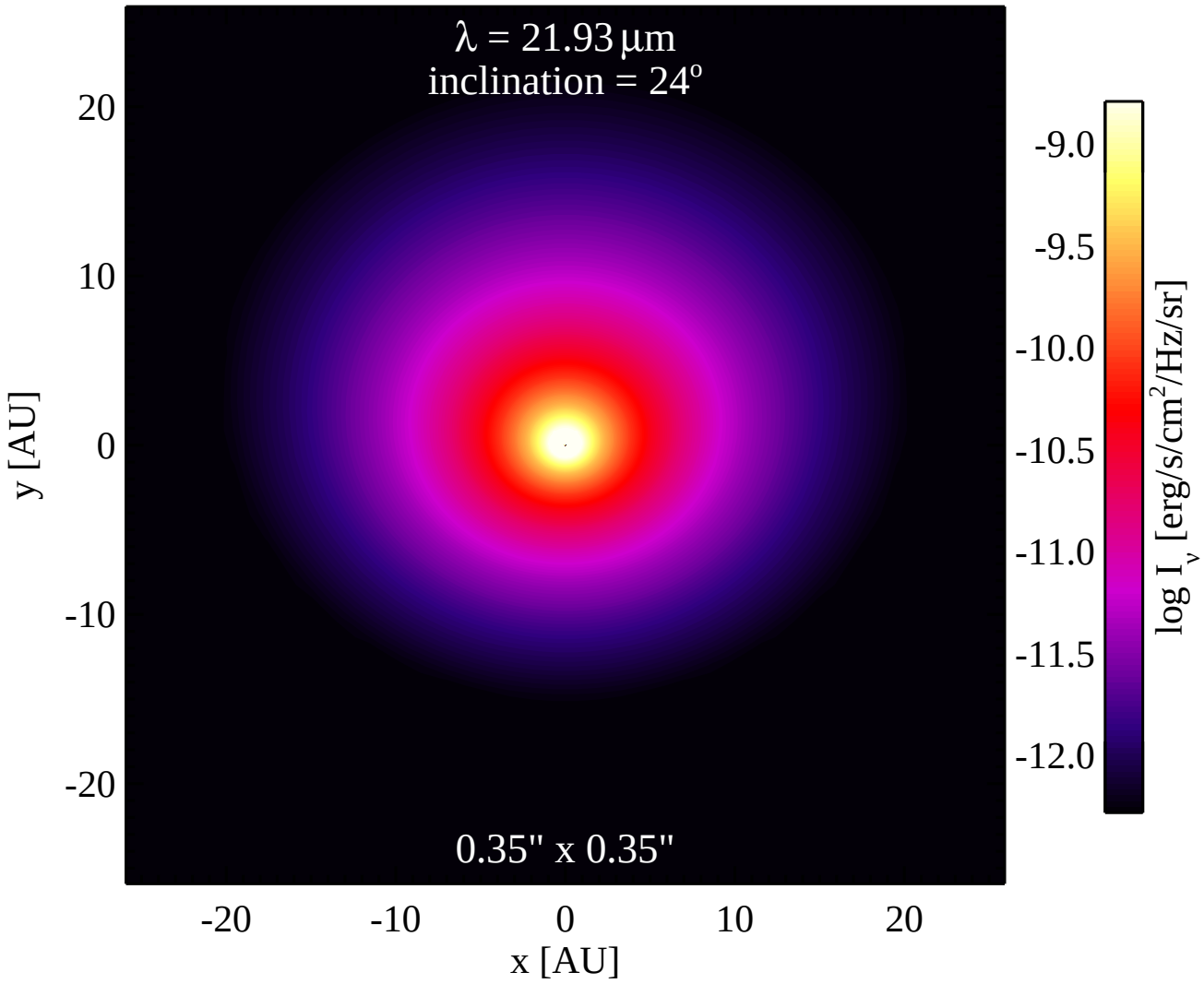

λ = 8.38 μm
inclination = 24°
0.035" x 0.035"
y [AU]
x [AU]
2
1
0
-1
-2
-2
-1
0
1
2
-7
-8
-9
-10
log I_ν [erg/s/cm²/Hz/sr]

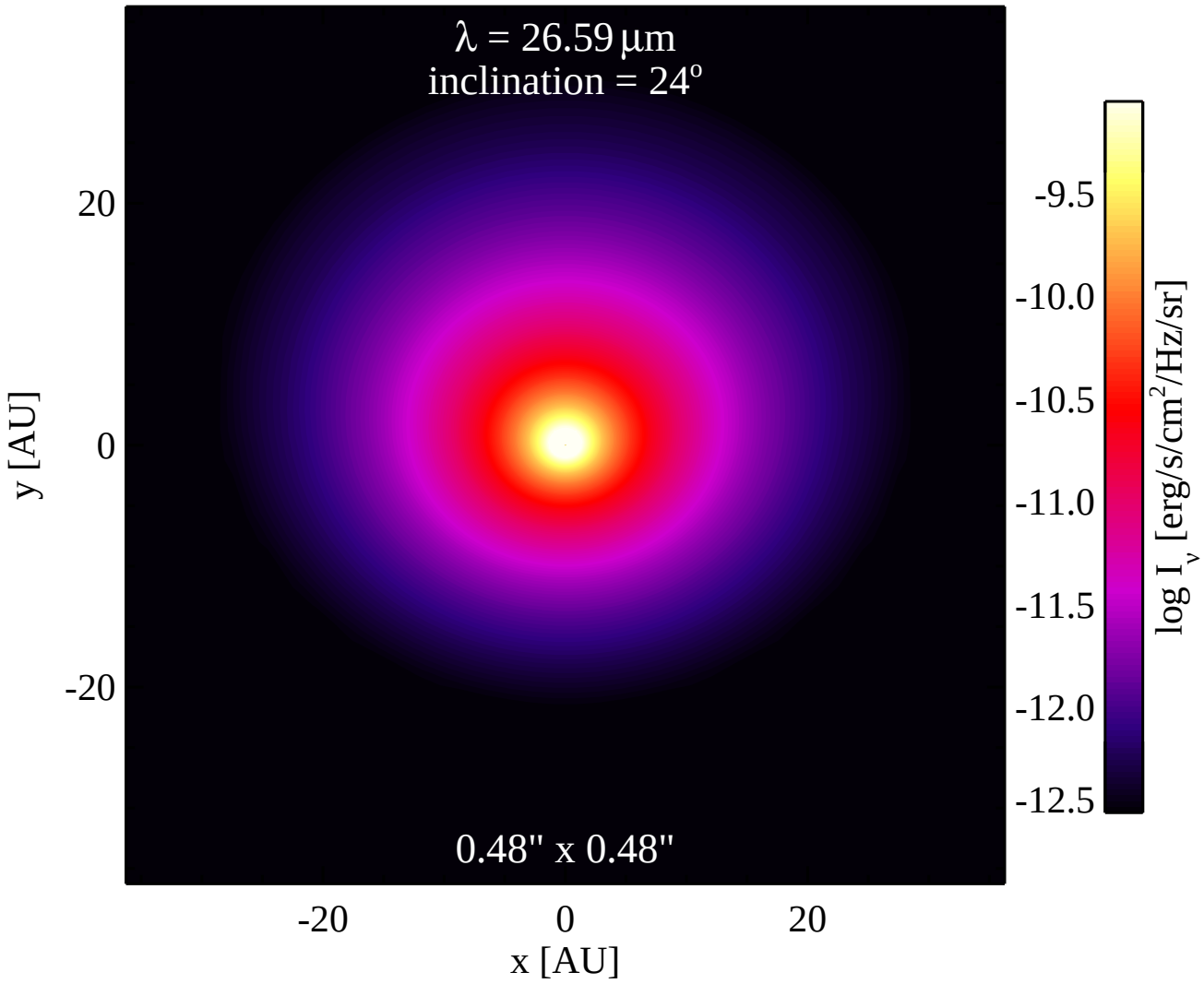

λ = 10.16 μm
inclination = 24°
0.058" x 0.058"
4
2
0
-2
-4
y [AU]
-4
-2
0
2
4
x [AU]
-8
-9
-10
log I_ν [erg/s/cm²/Hz/sr]

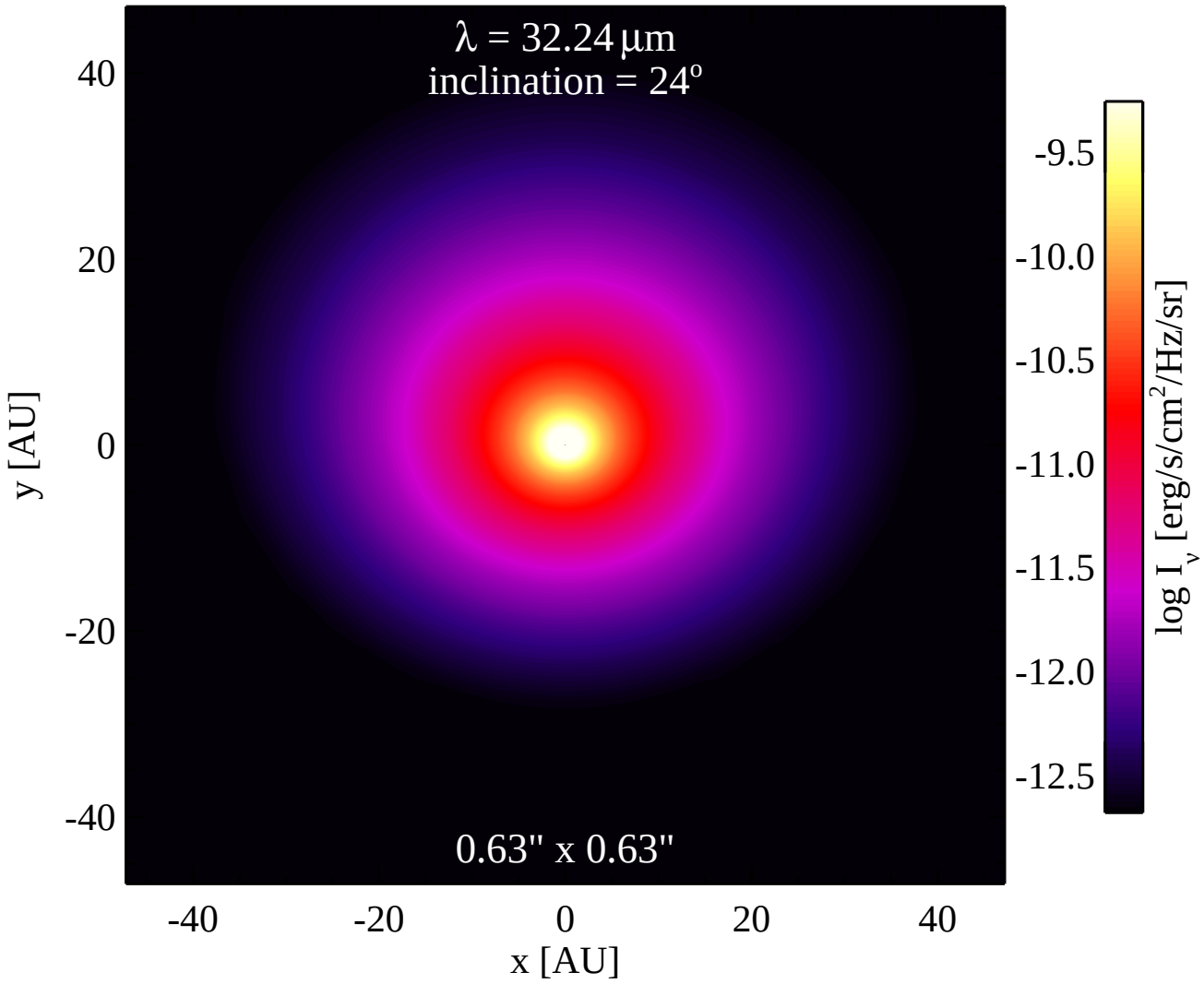

λ = 12.31 μm
inclination = 24°
0.094" x 0.094"
y [AU]
x [AU]
6
4
2
0
-2
-4
-6
-6
-4
-2
0
2
4
6
-8
-9
-10
-11
log I_ν [erg/s/cm²/Hz/sr]

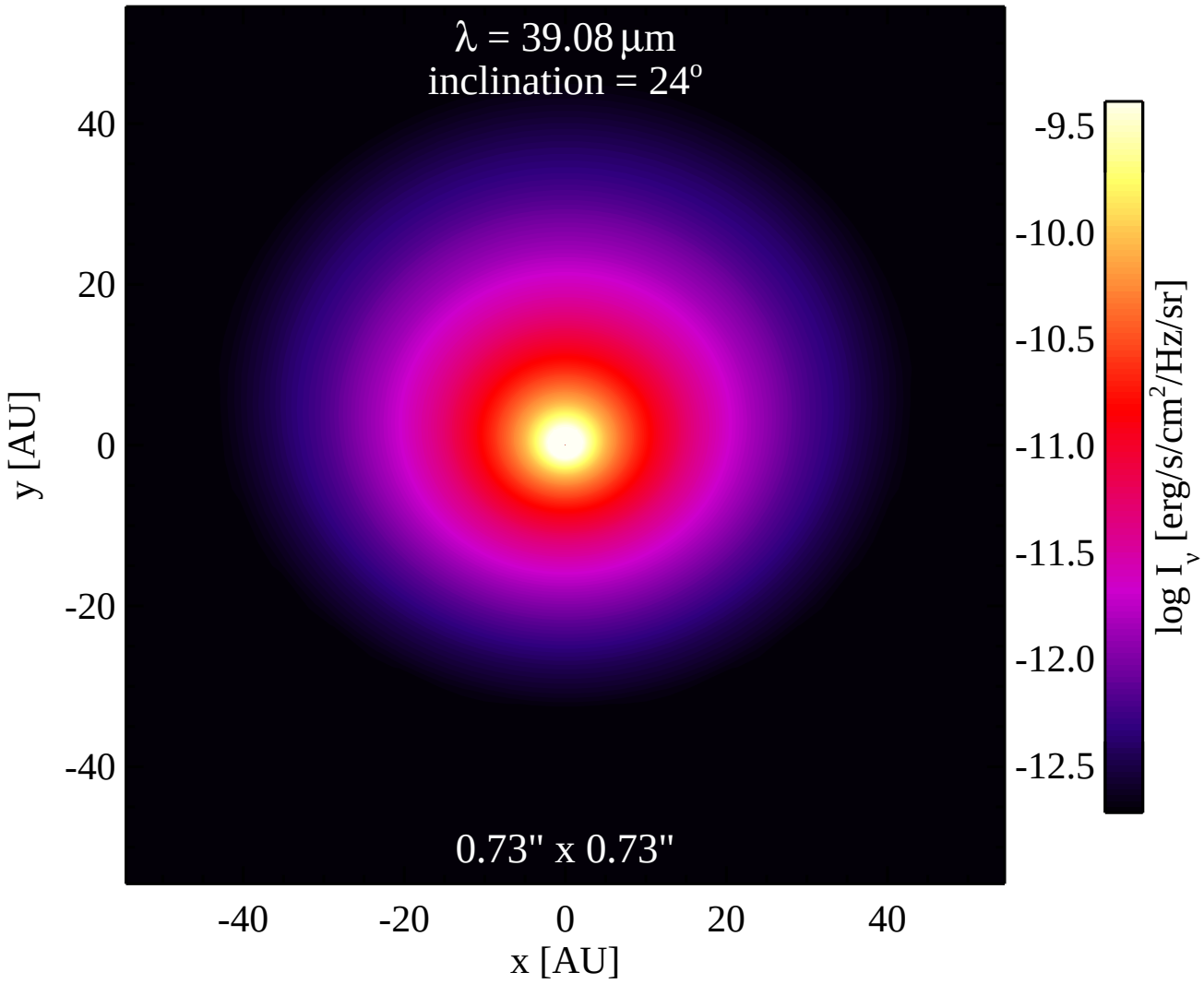

λ = 14.92 μm
inclination = 24°
0.13" x 0.13"
y [AU]
5
0
-5
x [AU]
-5
0
5
log I_ν [erg/s/cm²/Hz/sr]
-9
-10
-11

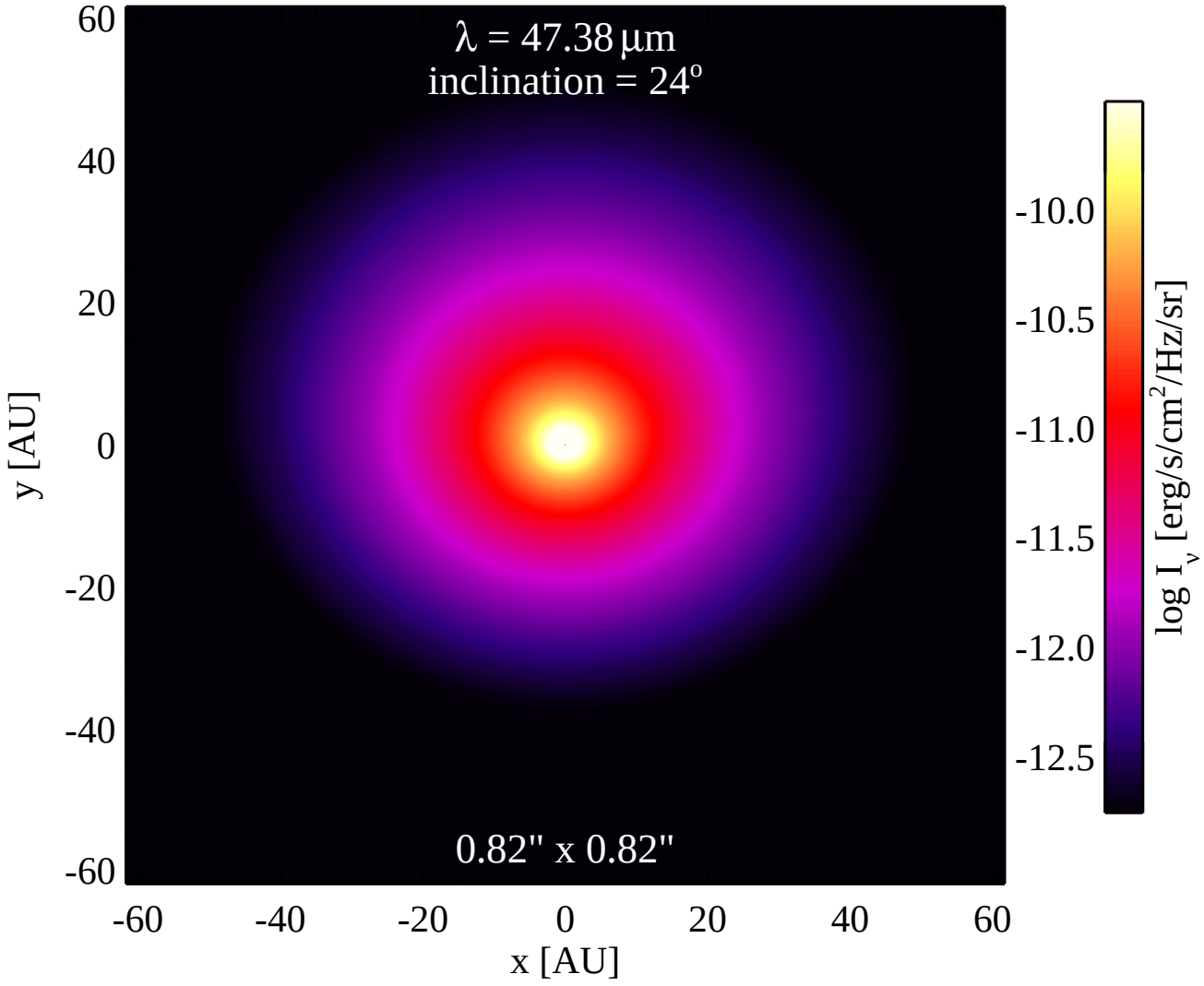

λ = 18.09 μm
inclination = 24°
0.21" x 0.21"
15
10
5
0
-5
-10
-15
y [AU]
-15
-10
-5
0
5
10
15
x [AU]
-9
-10
-11
log I_ν [erg/s/cm²/Hz/sr]

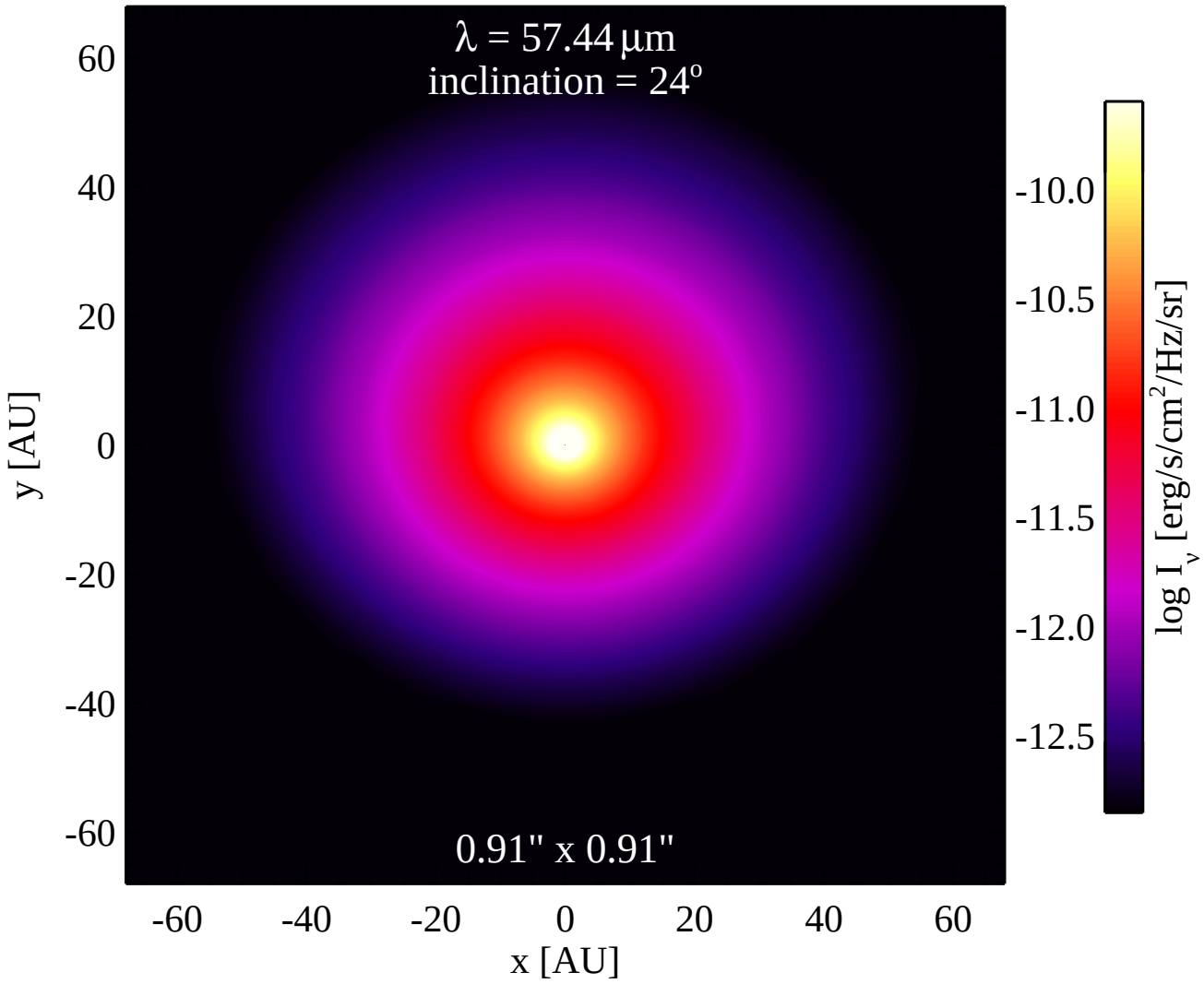

λ = 21.93 μm
inclination = 24°
0.35" x 0.35"
20
10
0
-10
-20
y [AU]
-20
-10
0
10
20
x [AU]
-9.0
-9.5
-10.0
-10.5
-11.0
-11.5
-12.0
log I_ν [erg/s/cm²/Hz/sr]

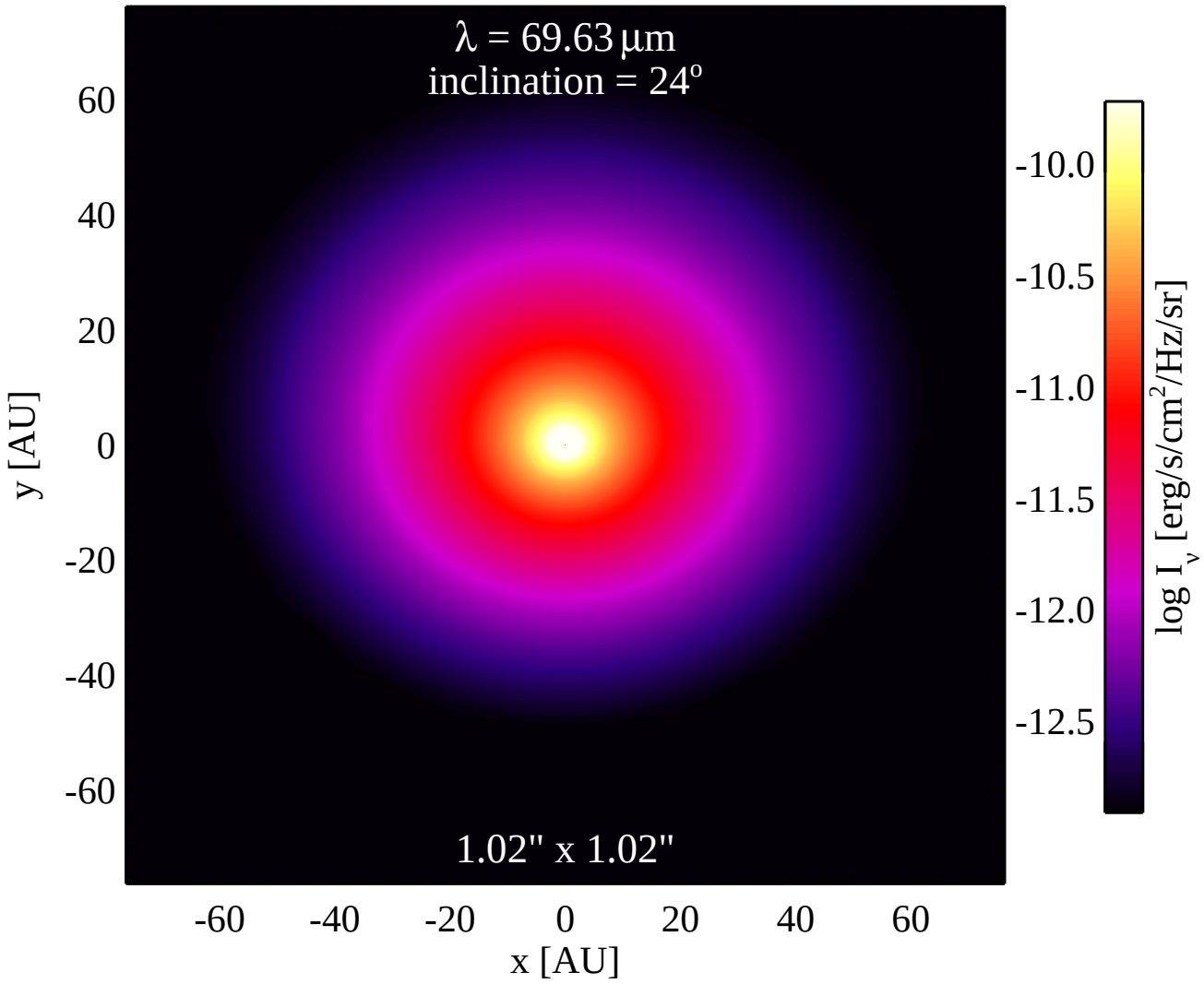

λ = 26.59 μm
inclination = 24°
0.48" x 0.48"
20
0
-20
y [AU]
-20
0
20
x [AU]
-9.5
-10.0
-10.5
-11.0
-11.5
-12.0
-12.5
log I_ν [erg/s/cm²/Hz/sr]

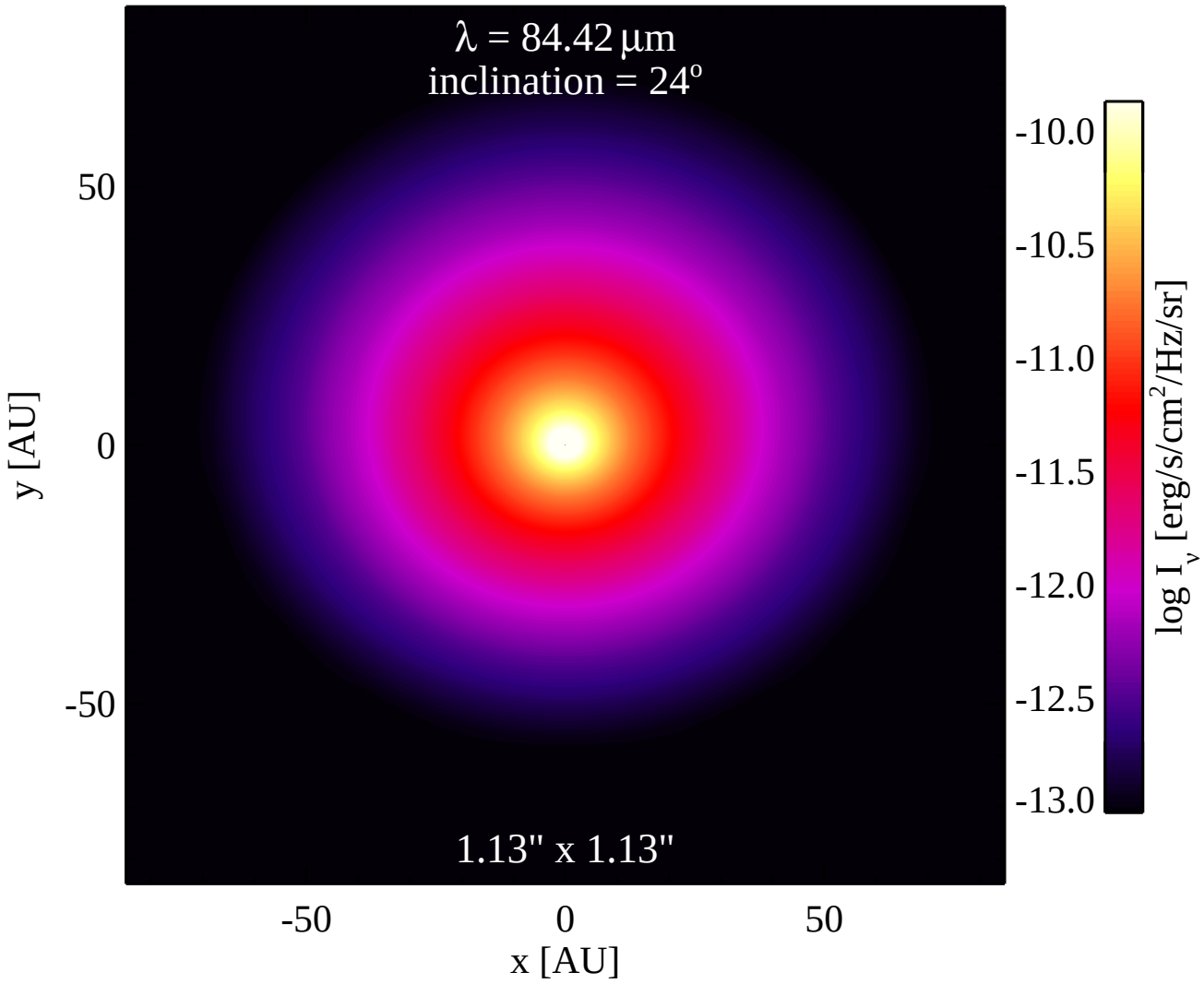

λ = 32.24 μm
inclination = 24°
0.63" x 0.63"
40
20
0
-20
-40
y [AU]
-40
-20
0
20
40
x [AU]
-9.5
-10.0
-10.5
-11.0
-11.5
-12.0
-12.5
log I_ν [erg/s/cm²/Hz/sr]

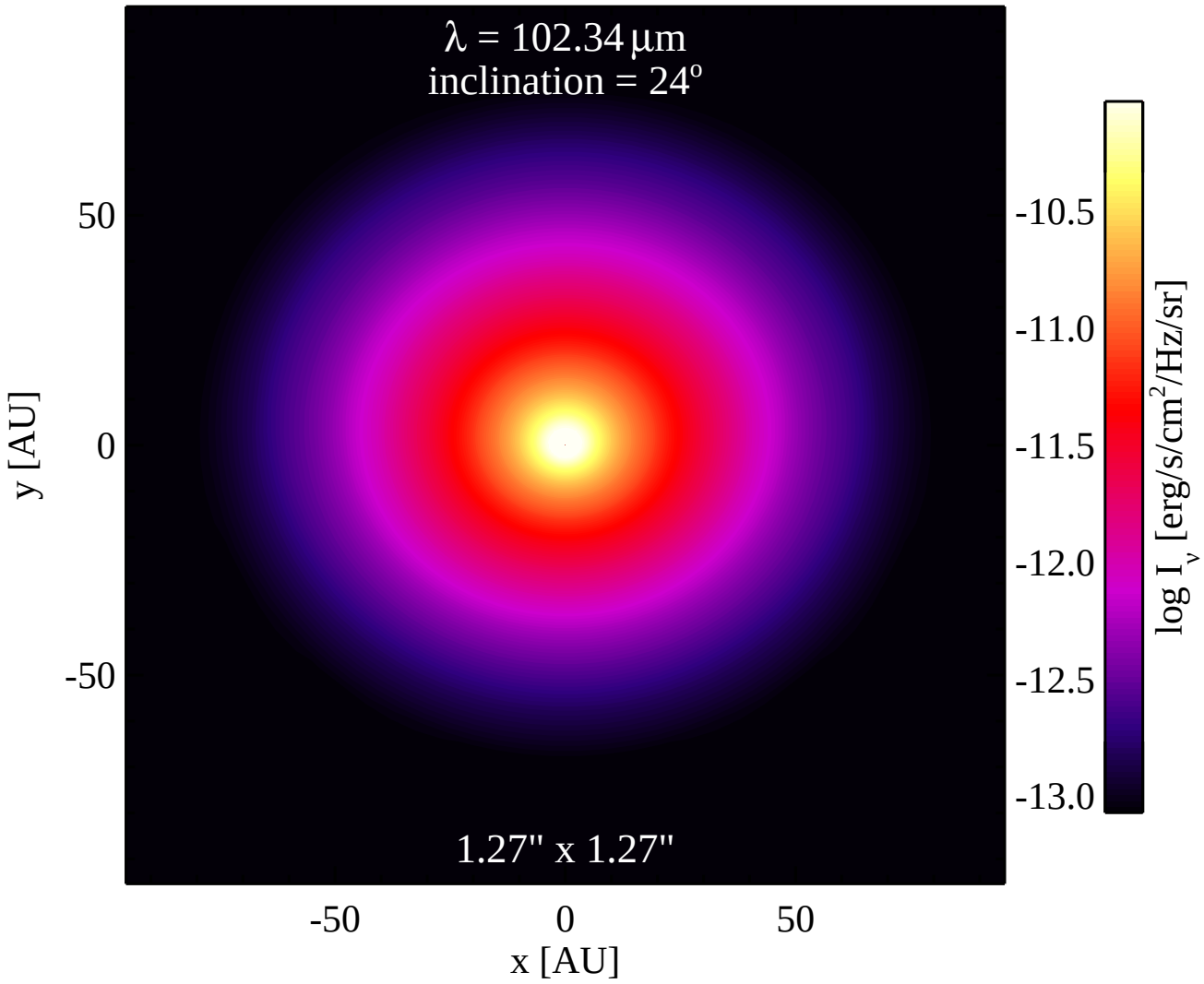

λ = 39.08 μm
inclination = 24°
0.73" x 0.73"
40
20
0
-20
-40
y [AU]
-40
-20
0
20
40
x [AU]
-9.5
-10.0
-10.5
-11.0
-11.5
-12.0
-12.5
log I_ν [erg/s/cm²/Hz/sr]

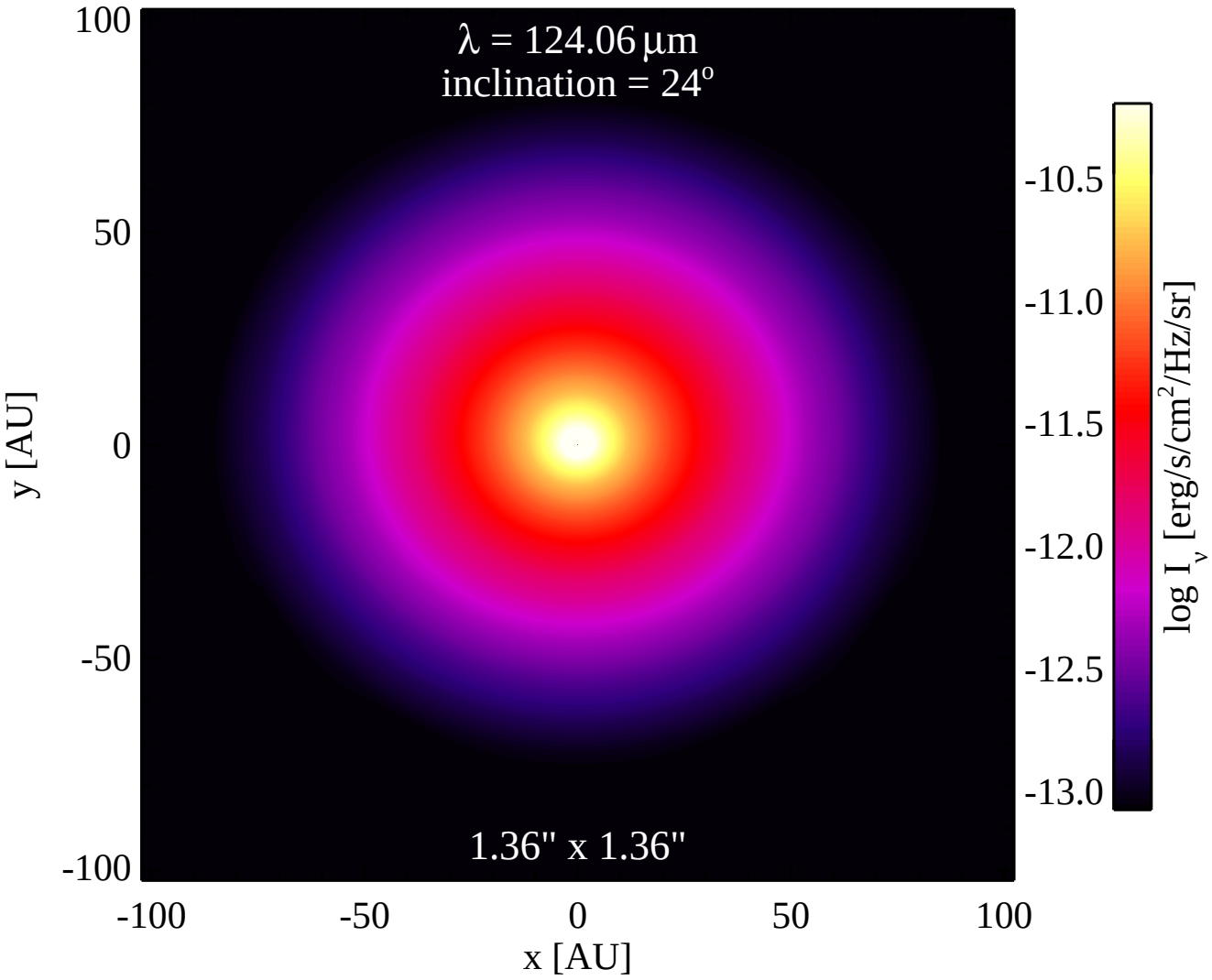

λ = 47.38 μm
inclination = 24°
0.82" x 0.82"
60
40
20
0
-20
-40
-60
y [AU]
-60
-40
-20
0
20
40
60
x [AU]
-10.0
-10.5
-11.0
-11.5
-12.0
-12.5
log I_ν [erg/s/cm²/Hz/sr]

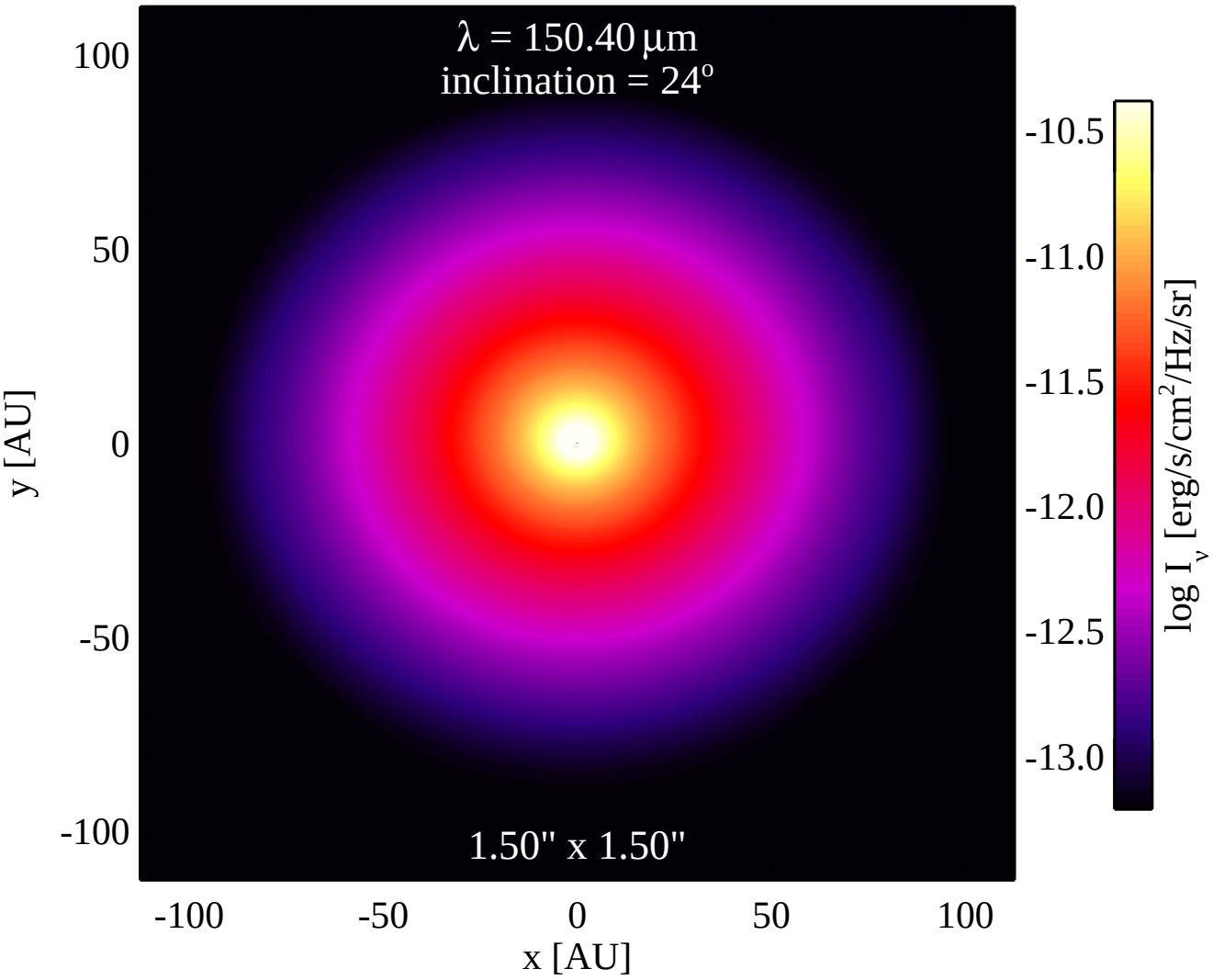

λ = 57.44 μm
inclination = 24°
0.91" x 0.91"
60
40
20
0
-20
-40
-60
y [AU]
-60
-40
-20
0
20
40
60
x [AU]
-10.0
-10.5
-11.0
-11.5
-12.0
-12.5
log I_ν [erg/s/cm²/Hz/sr]

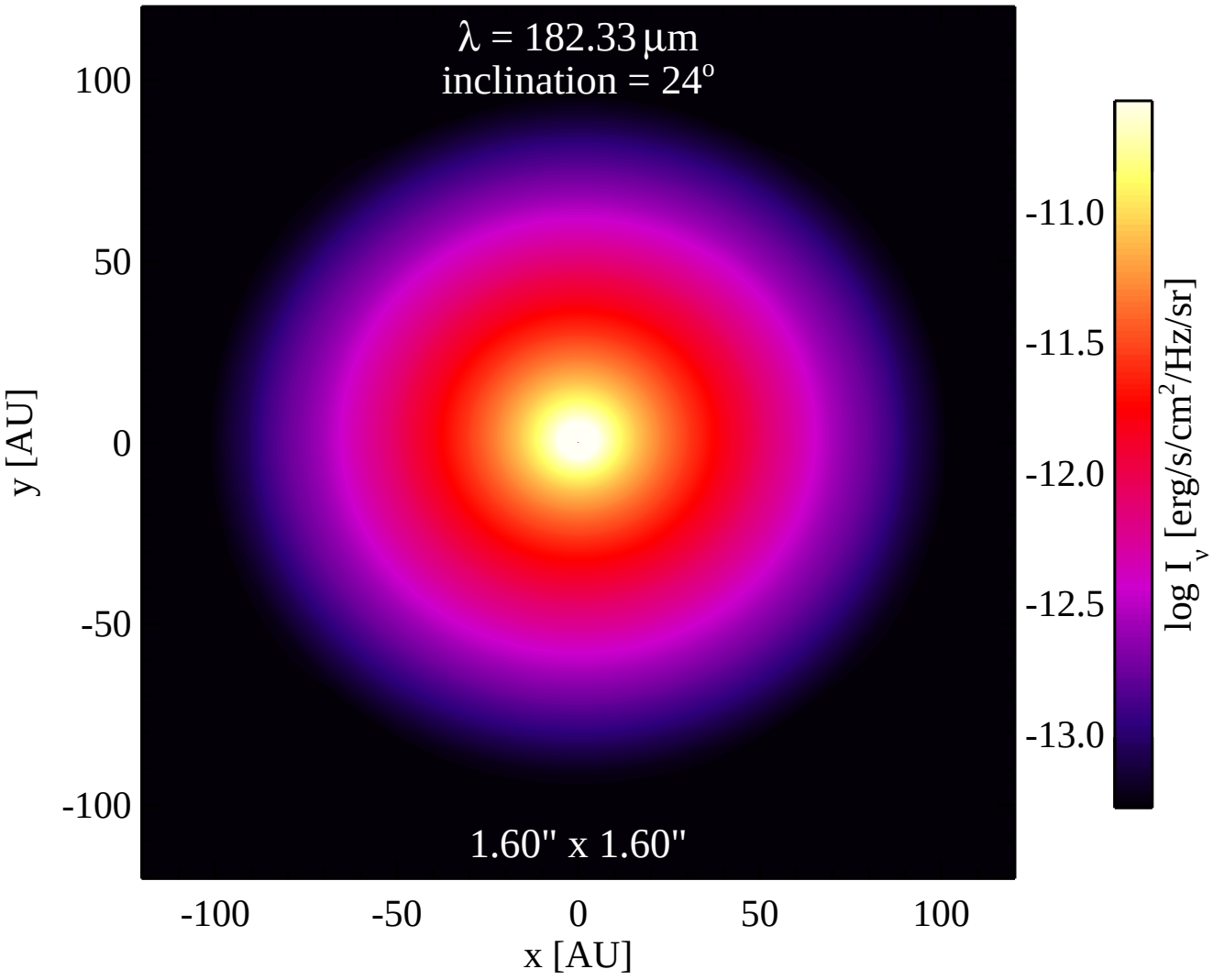

λ = 69.63 μm
inclination = 24°
1.02" x 1.02"
60
40
20
0
-20
-40
-60
y [AU]
-60
-40
-20
0
20
40
60
x [AU]
-10.0
-10.5
-11.0
-11.5
-12.0
-12.5
log I_ν [erg/s/cm²/Hz/sr]

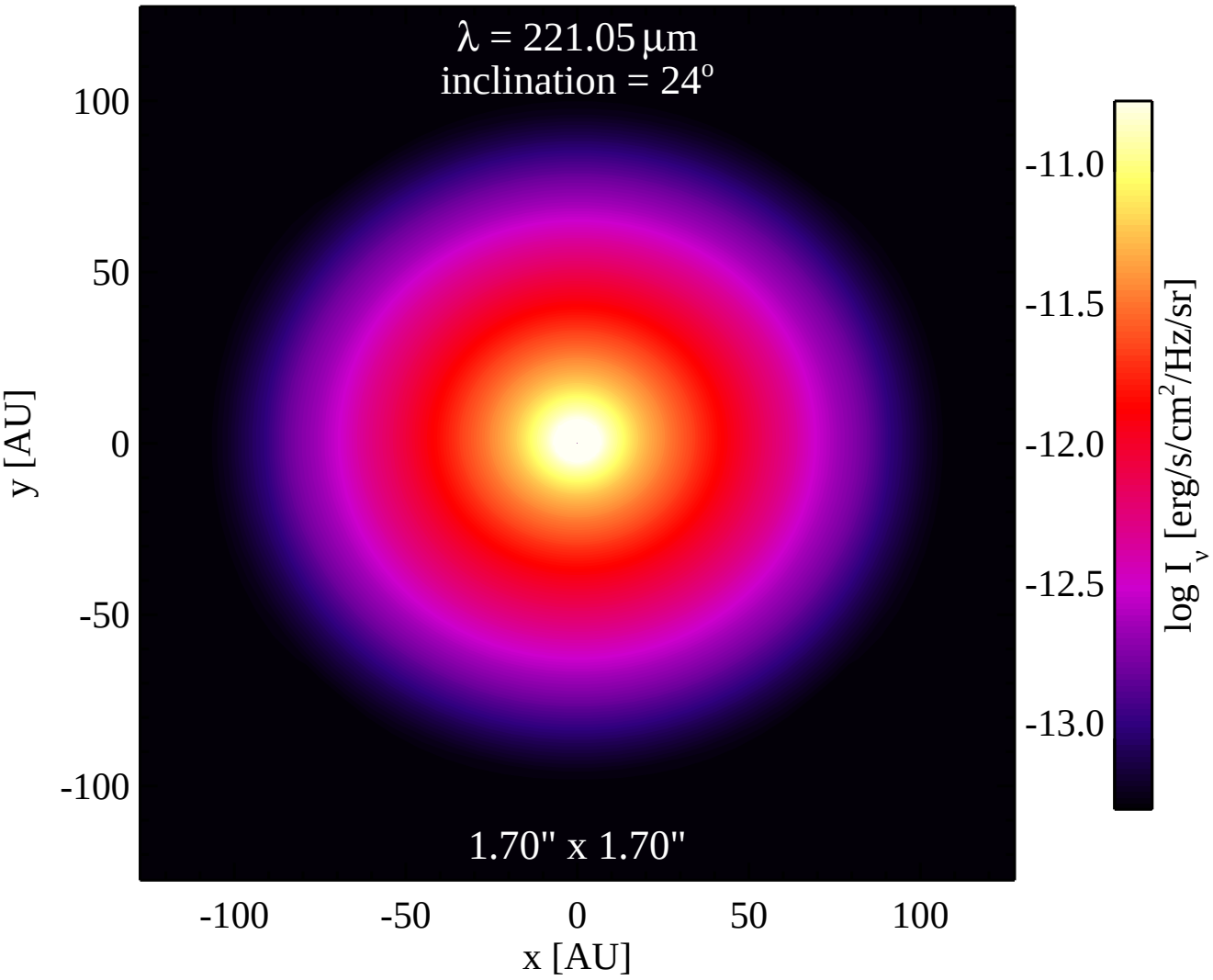

λ = 84.42 μm
inclination = 24°
1.13" x 1.13"
50
0
-50
y [AU]
-50
0
50
x [AU]
-10.0
-10.5
-11.0
-11.5
-12.0
-12.5
-13.0
log I_ν [erg/s/cm²/Hz/sr]

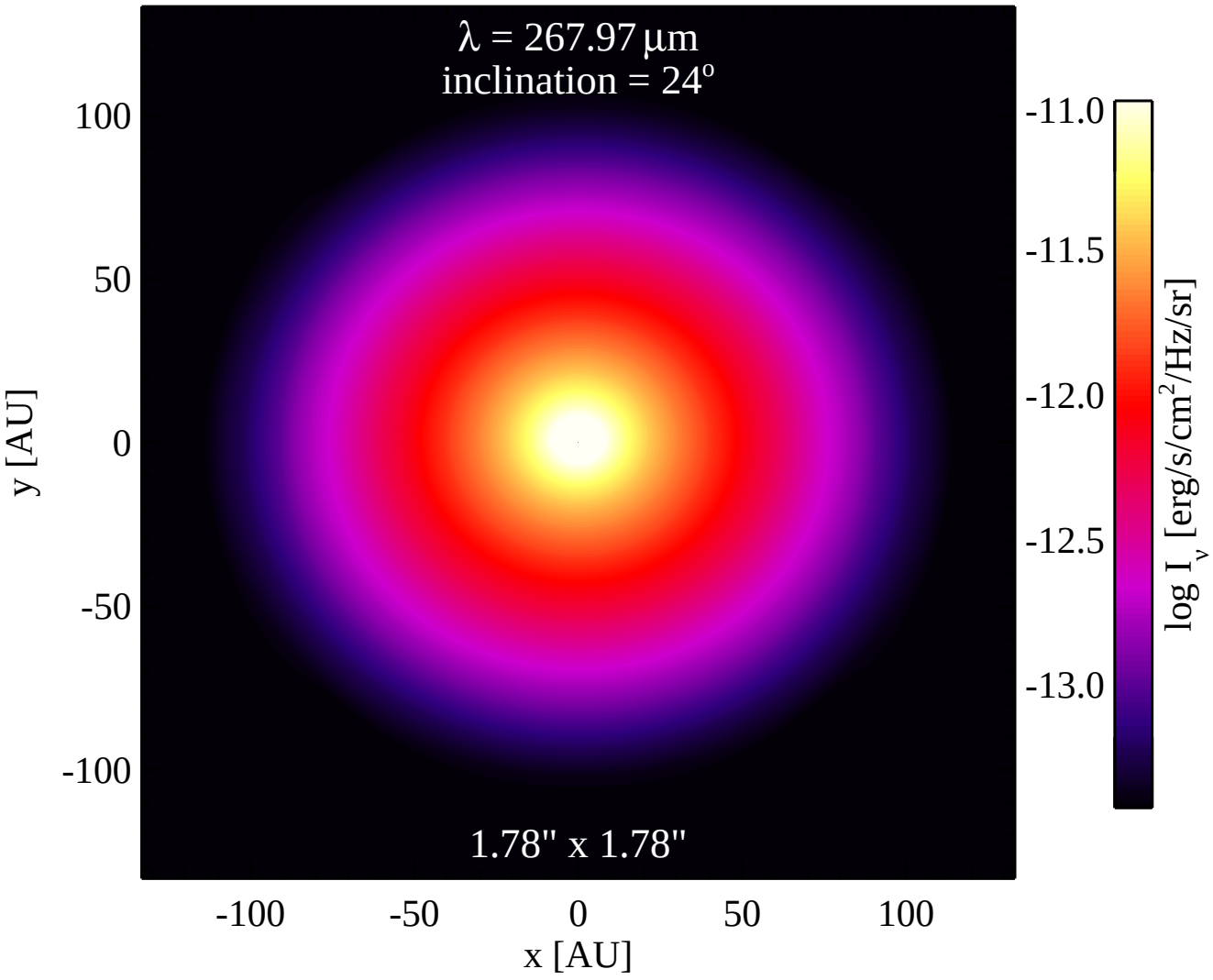

λ = 102.34 μm
inclination = 24°
1.27" x 1.27"
50
0
-50
y [AU]
-50
0
50
x [AU]
-10.5
-11.0
-11.5
-12.0
-12.5
-13.0
log I_ν [erg/s/cm²/Hz/sr]

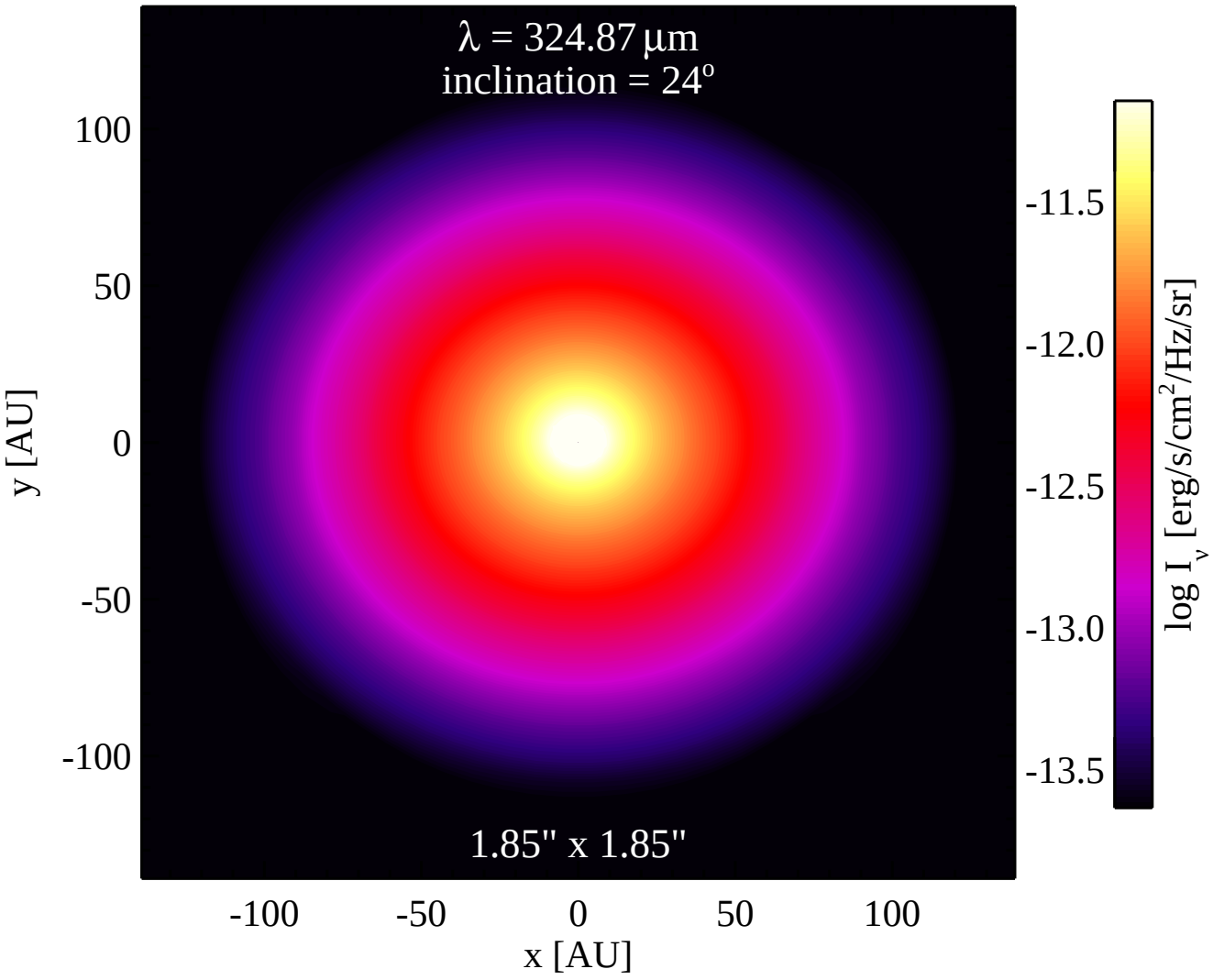

λ = 124.06 μm
inclination = 24°
1.36" x 1.36"
100
50
0
-50
-100
y [AU]
-100
-50
0
50
100
x [AU]
-10.5
-11.0
-11.5
-12.0
-12.5
-13.0
log I_ν [erg/s/cm²/Hz/sr]

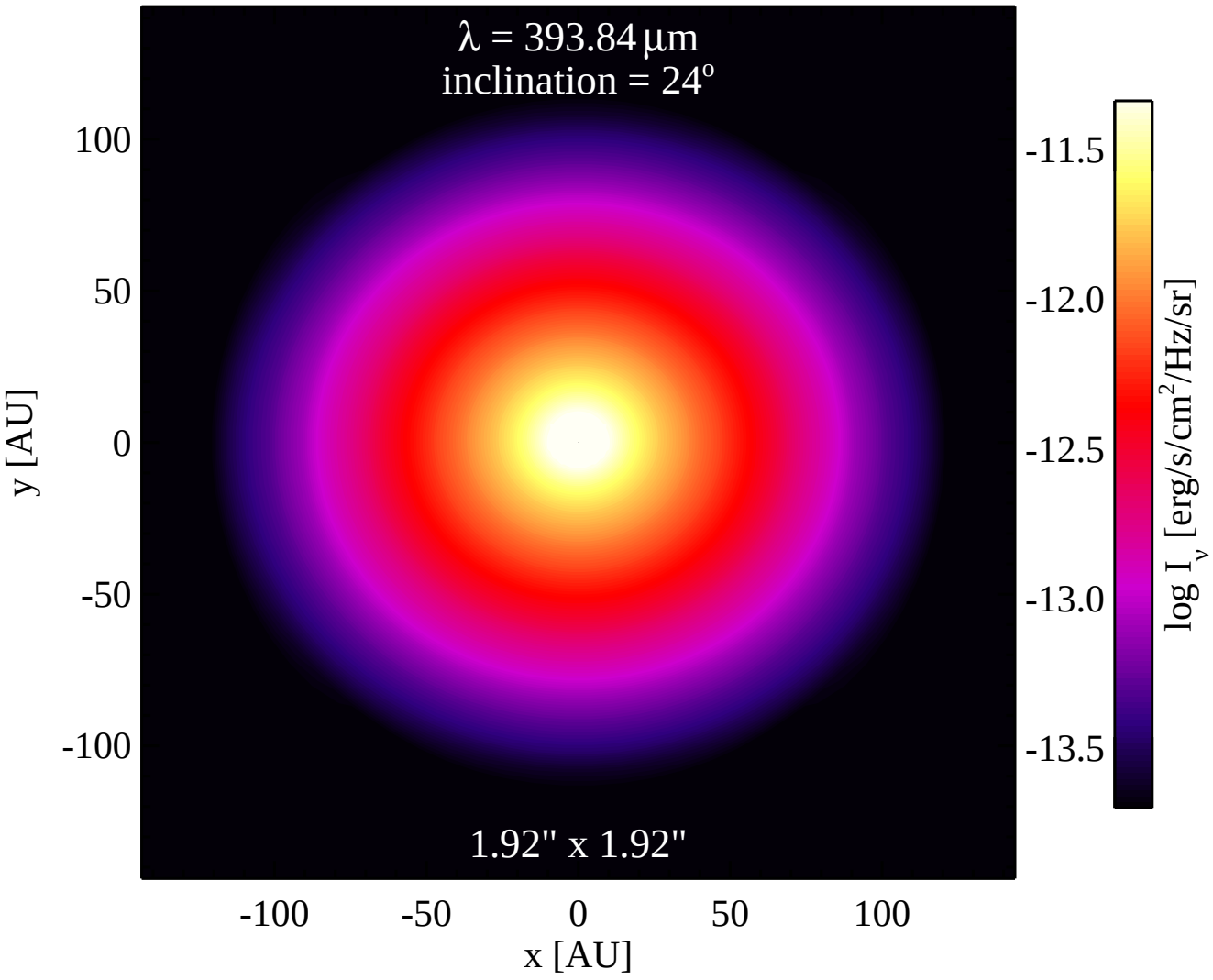

λ = 150.40 μm
inclination = 24°
1.50" x 1.50"
100
50
0
-50
-100
y [AU]
-100
-50
0
50
100
x [AU]
-10.5
-11.0
-11.5
-12.0
-12.5
-13.0
log I_ν [erg/s/cm²/Hz/sr]

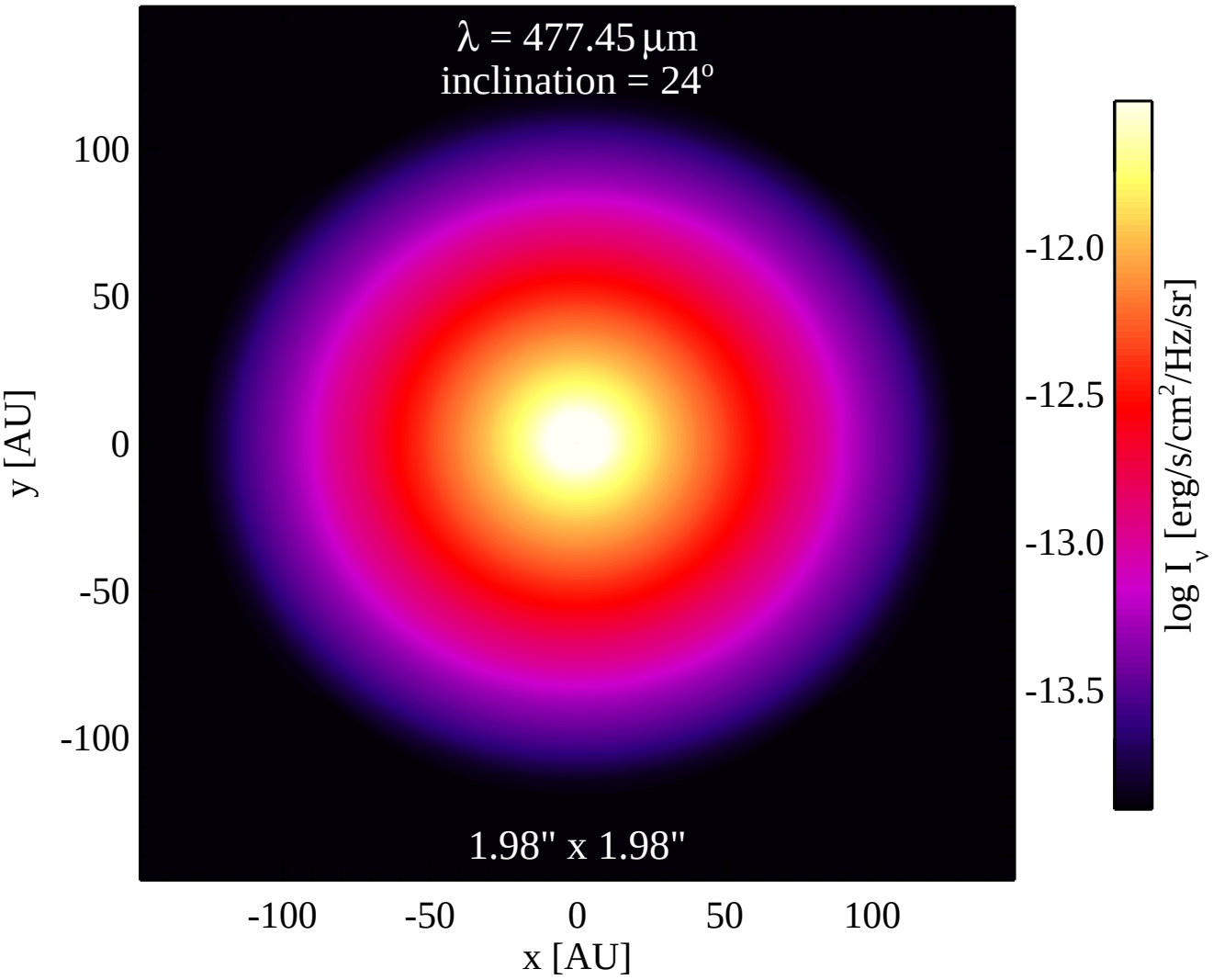

λ = 182.33 μm
inclination = 24°
1.60" x 1.60"
100
50
0
-50
-100
y [AU]
-100
-50
0
50
100
x [AU]
-11.0
-11.5
-12.0
-12.5
-13.0
log I_ν [erg/s/cm²/Hz/sr]

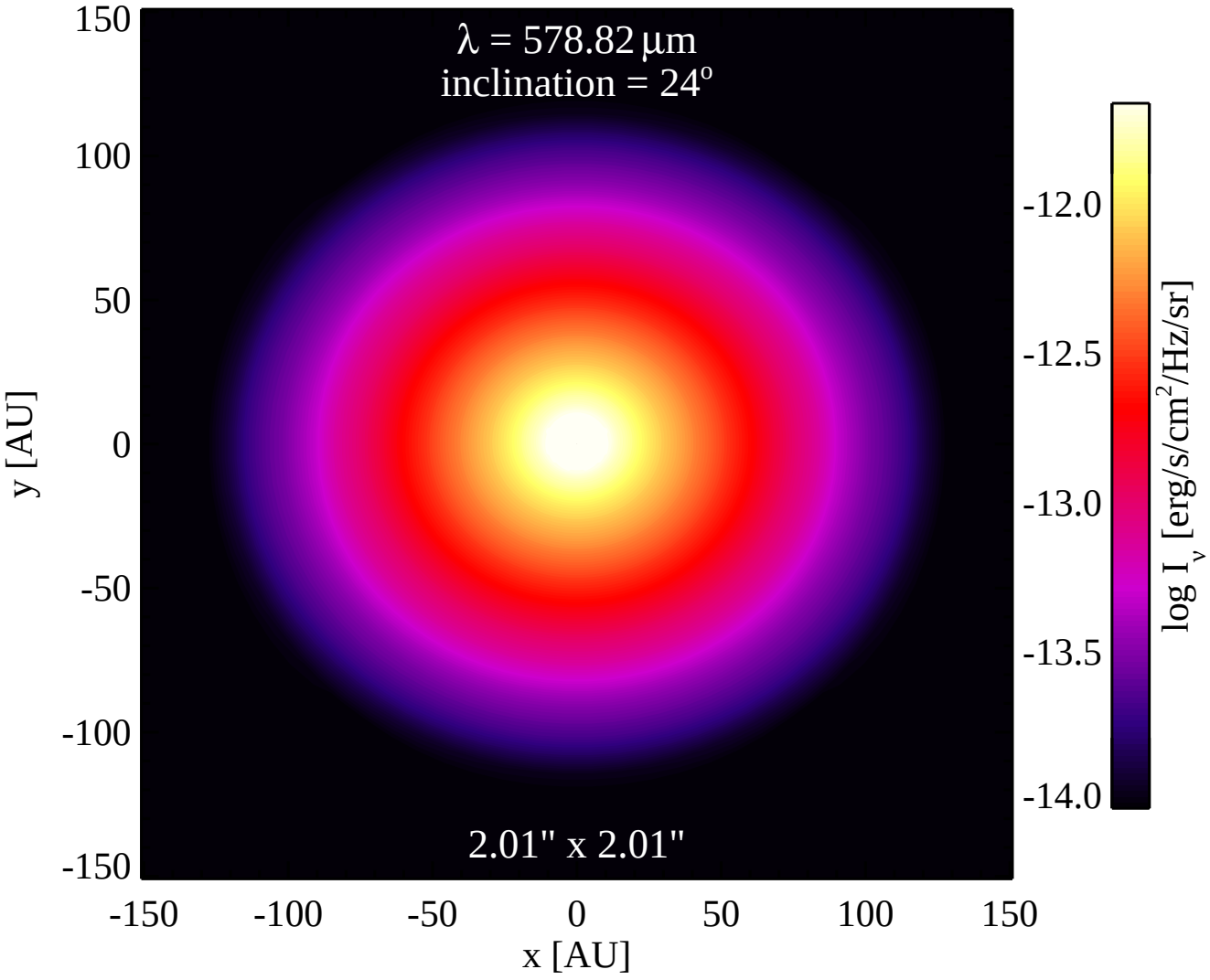

λ = 221.05 μm
inclination = 24°
1.70" x 1.70"
100
50
0
-50
-100
y [AU]
-100
-50
0
50
100
x [AU]
-11.0
-11.5
-12.0
-12.5
-13.0
log I_ν [erg/s/cm²/Hz/sr]

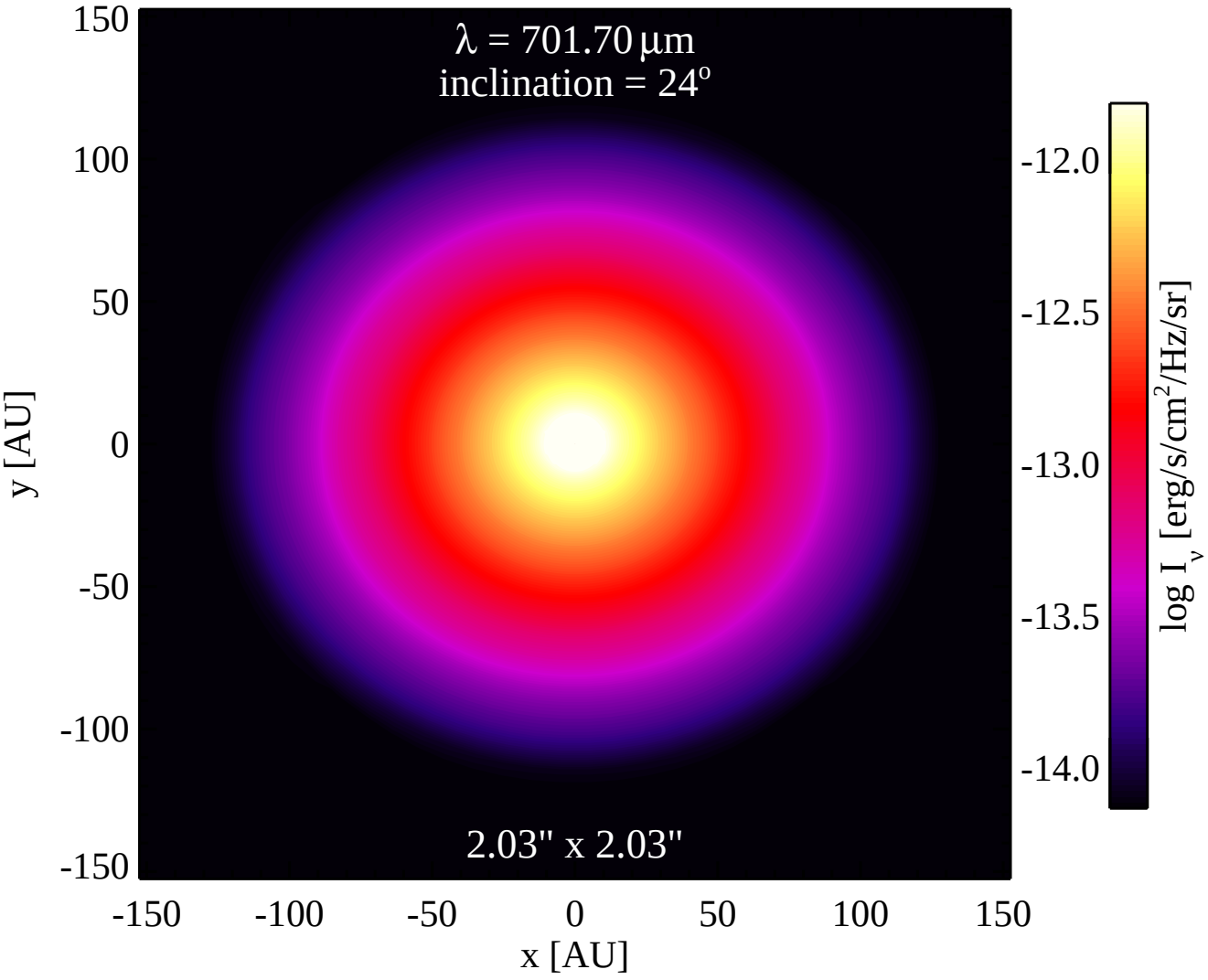

λ = 267.97 μm
inclination = 24°
1.78" x 1.78"
100
50
0
-50
-100
y [AU]
-100
-50
0
50
100
x [AU]
-11.0
-11.5
-12.0
-12.5
-13.0
log I_ν [erg/s/cm²/Hz/sr]

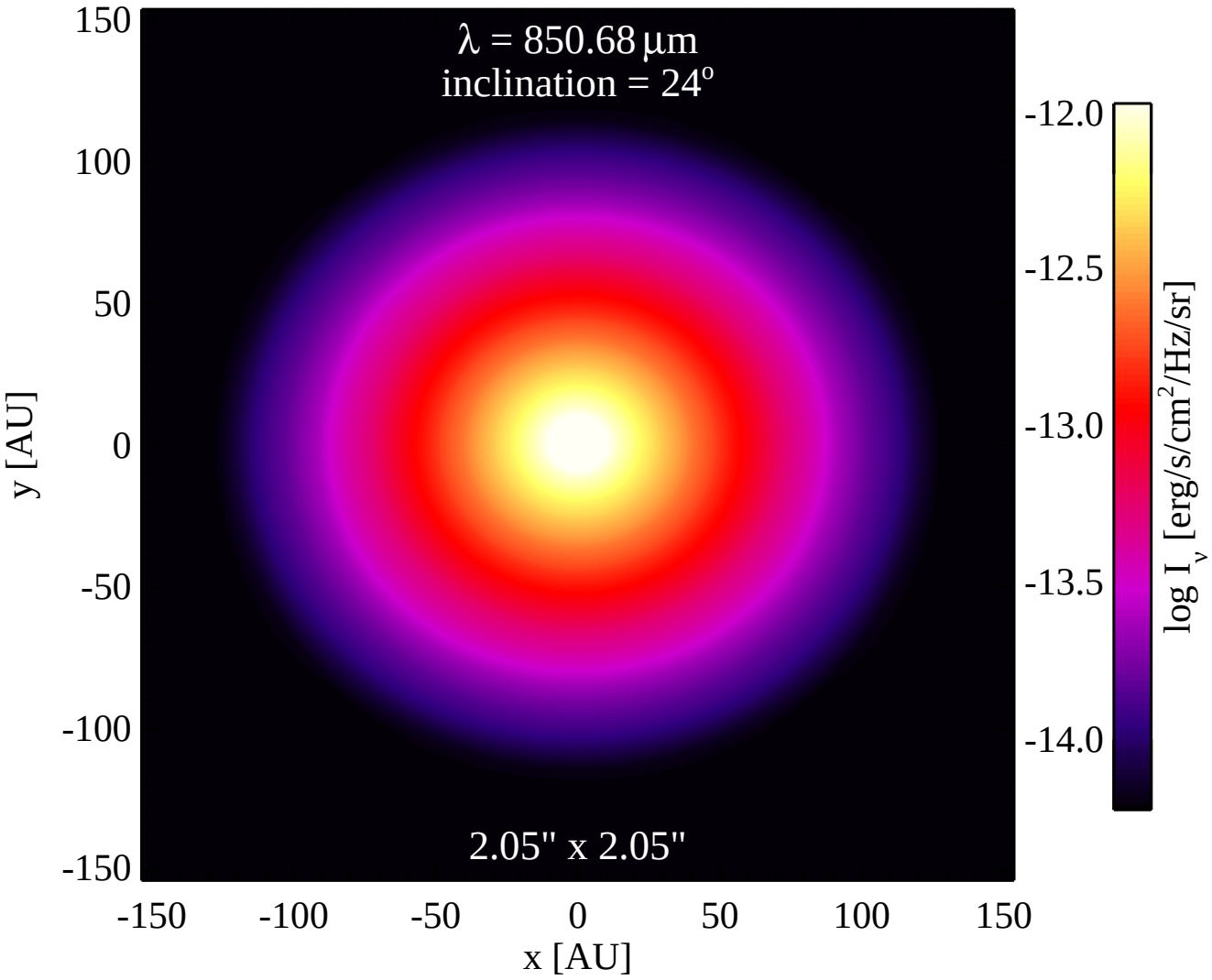

λ = 324.87 μm
inclination = 24°
1.85" x 1.85"
100
50
0
-50
-100
y [AU]
-100
-50
0
50
100
x [AU]
-11.5
-12.0
-12.5
-13.0
-13.5
log I_ν [erg/s/cm²/Hz/sr]

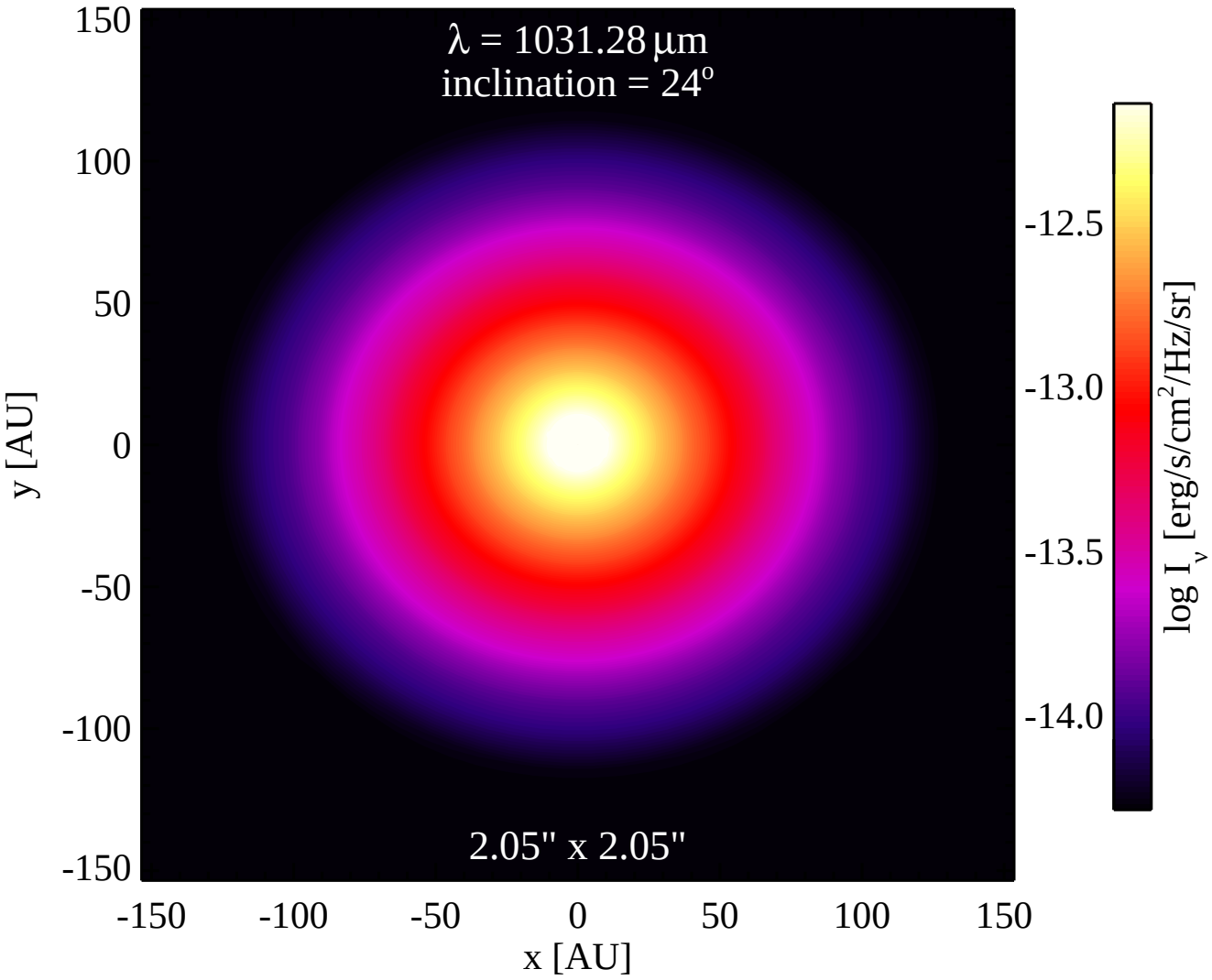

λ = 393.84 μm
inclination = 24°
1.92" x 1.92"
100
50
0
-50
-100
y [AU]
-100
-50
0
50
100
x [AU]
-11.5
-12.0
-12.5
-13.0
-13.5
log I_ν [erg/s/cm²/Hz/sr]

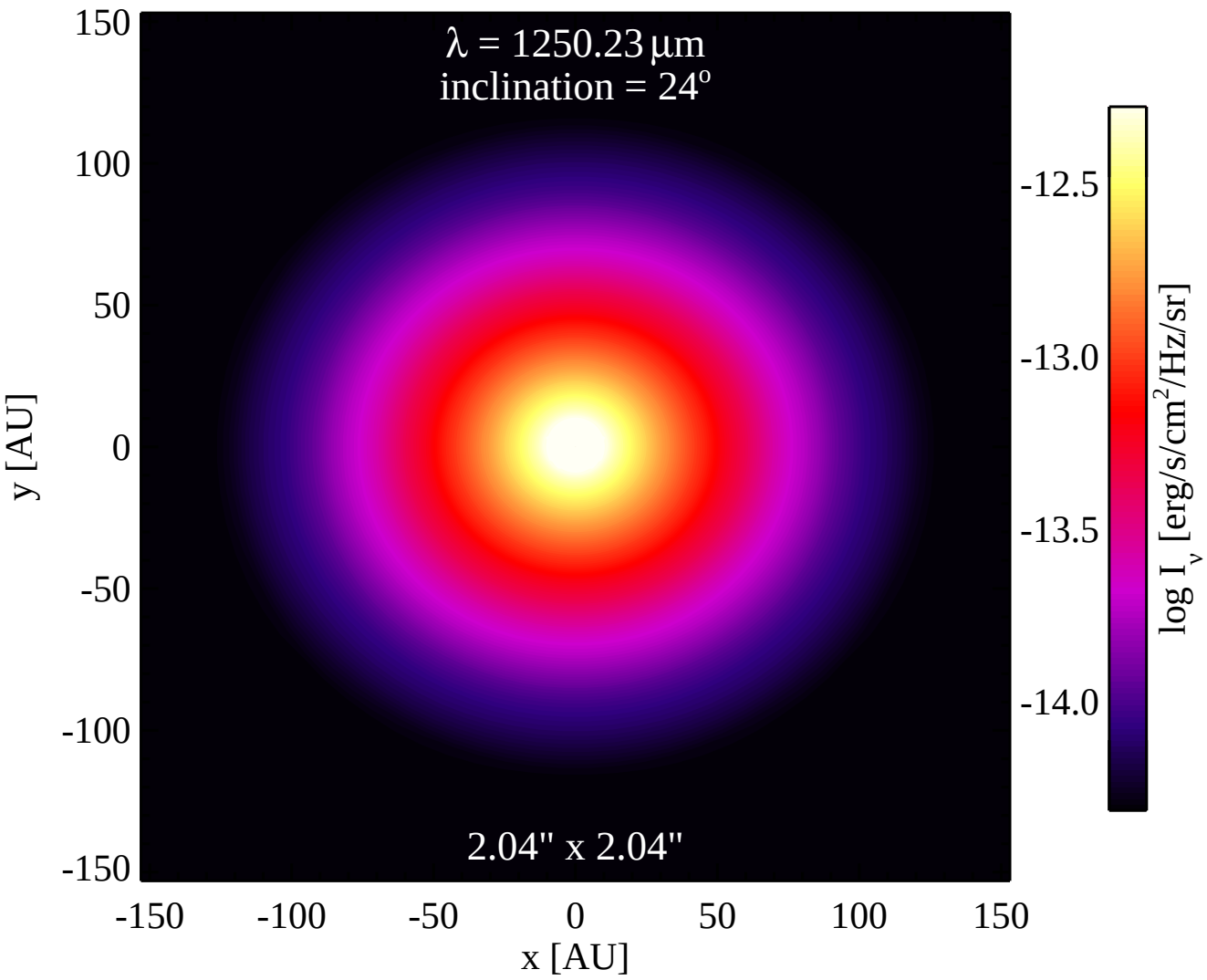

λ = 477.45 μm
inclination = 24°
1.98" x 1.98"
100
50
0
-50
-100
y [AU]
-100
-50
0
50
100
x [AU]
-12.0
-12.5
-13.0
-13.5
log I_ν [erg/s/cm²/Hz/sr]

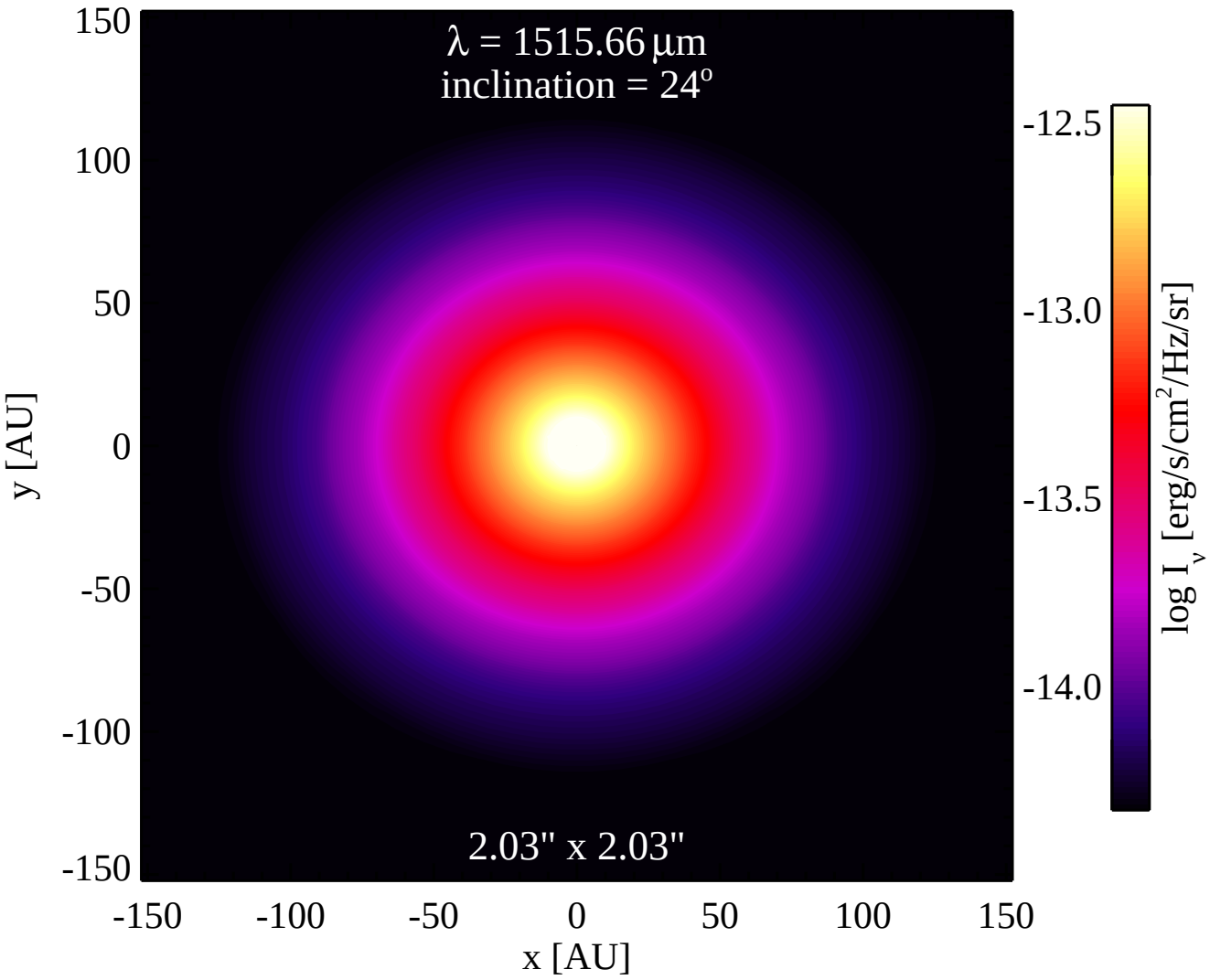

λ = 578.82 μm
inclination = 24°
2.01" x 2.01"
150
100
50
0
-50
-100
-150
y [AU]
-150
-100
-50
0
50
100
150
x [AU]
-12.0
-12.5
-13.0
-13.5
-14.0
log I_ν [erg/s/cm²/Hz/sr]

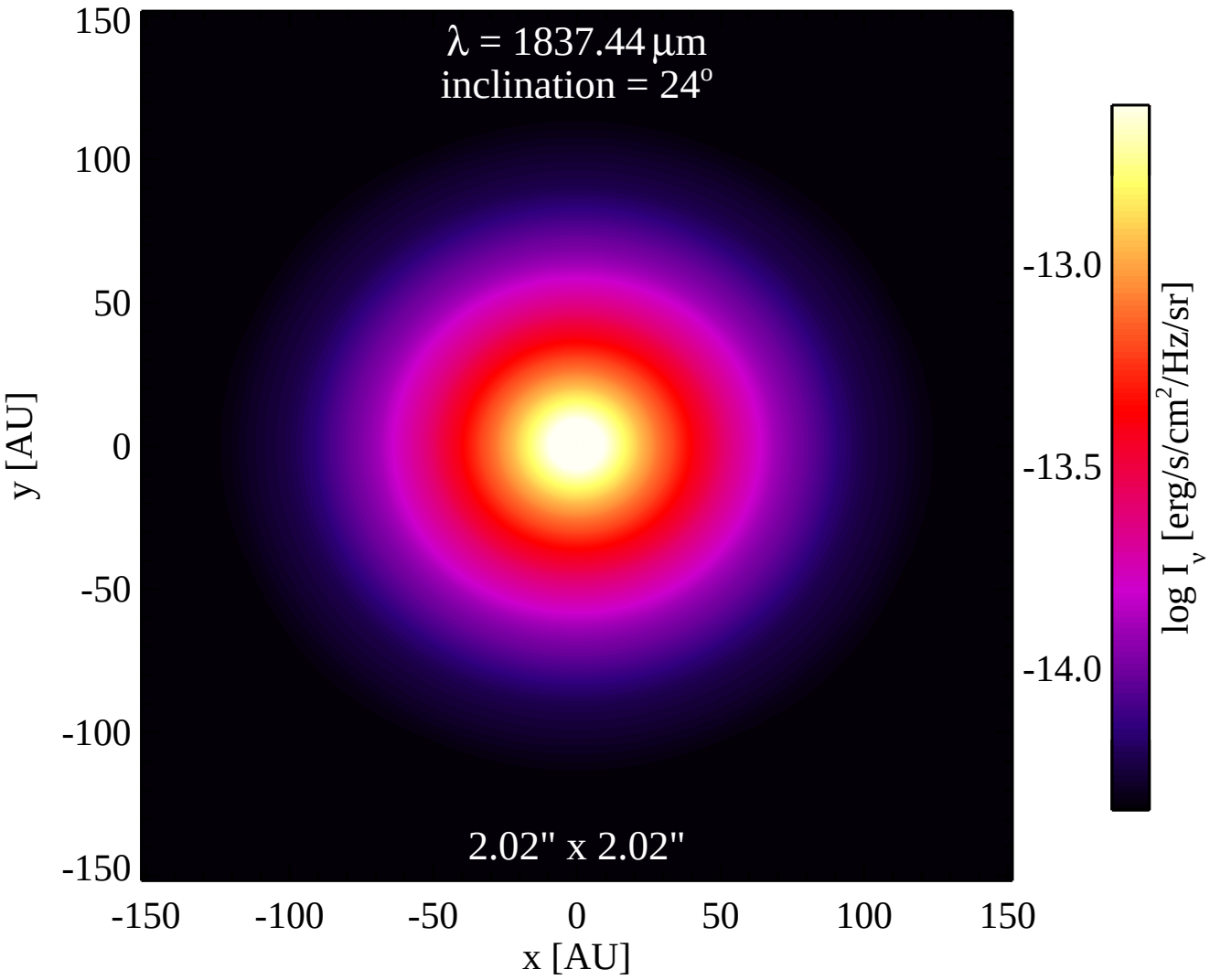

λ = 701.70 μm
inclination = 24°
2.03" x 2.03"
150
100
50
0
-50
-100
-150
y [AU]
-150
-100
-50
0
50
100
150
x [AU]
-12.0
-12.5
-13.0
-13.5
-14.0
log I_ν [erg/s/cm²/Hz/sr]

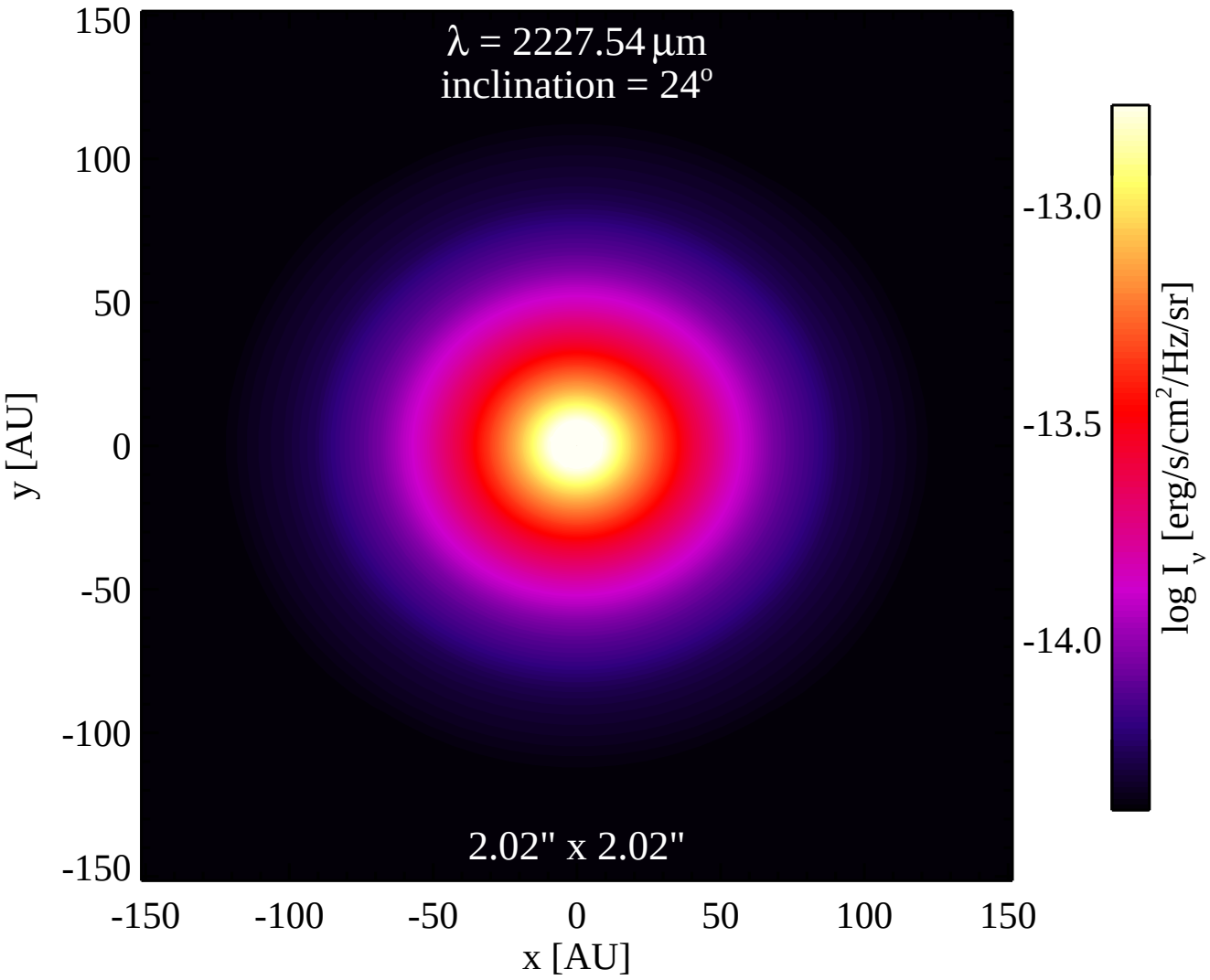

λ = 850.68 μm
inclination = 24°
2.05" x 2.05"
150
100
50
0
-50
-100
-150
y [AU]
-150
-100
-50
0
50
100
150
x [AU]
-12.0
-12.5
-13.0
-13.5
-14.0
log I_ν [erg/s/cm²/Hz/sr]

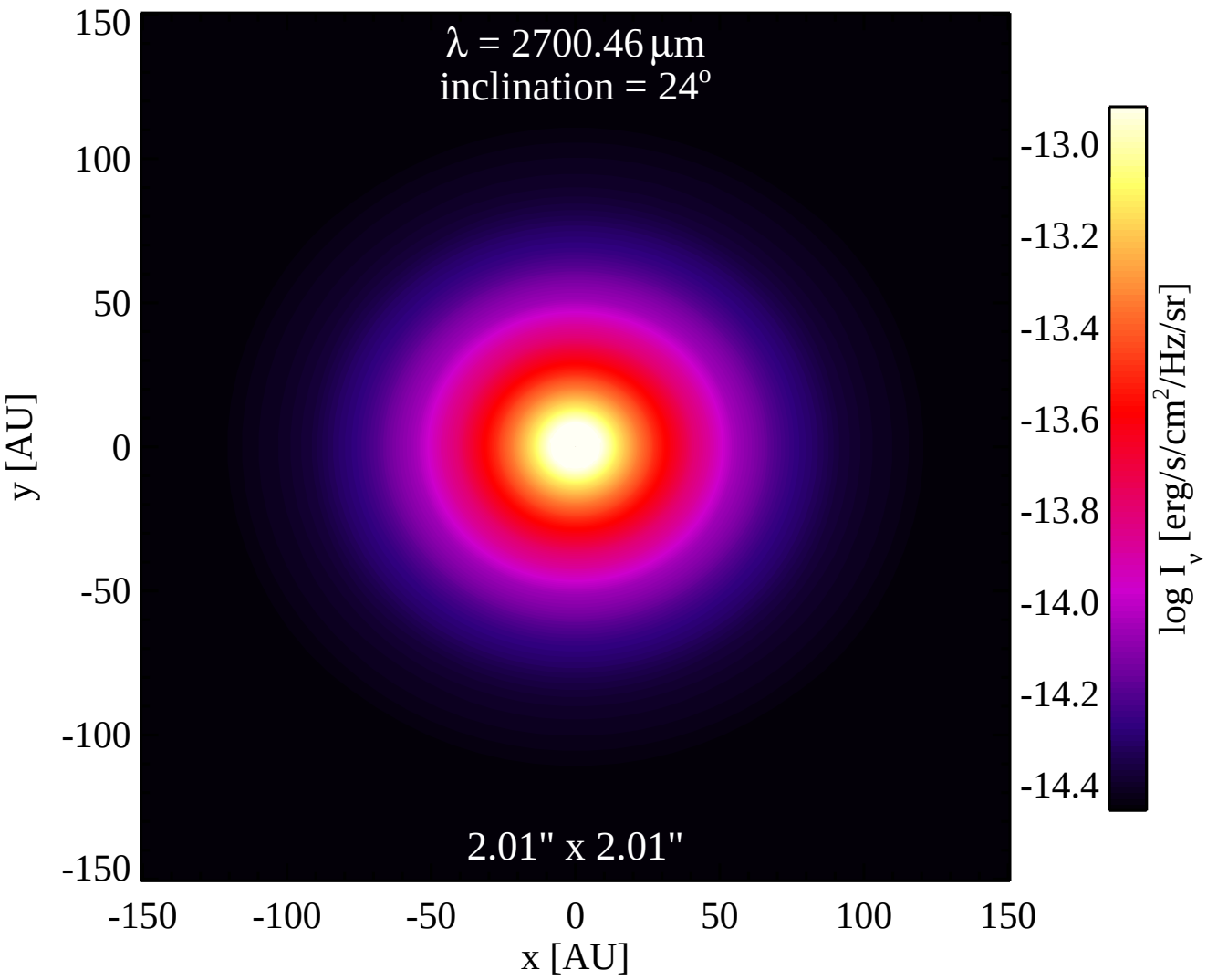

λ = 1031.28 μm
inclination = 24°
2.05" x 2.05"
150
100
50
0
-50
-100
-150
y [AU]
-150
-100
-50
0
50
100
150
x [AU]
-12.5
-13.0
-13.5
-14.0
log I_ν [erg/s/cm²/Hz/sr]

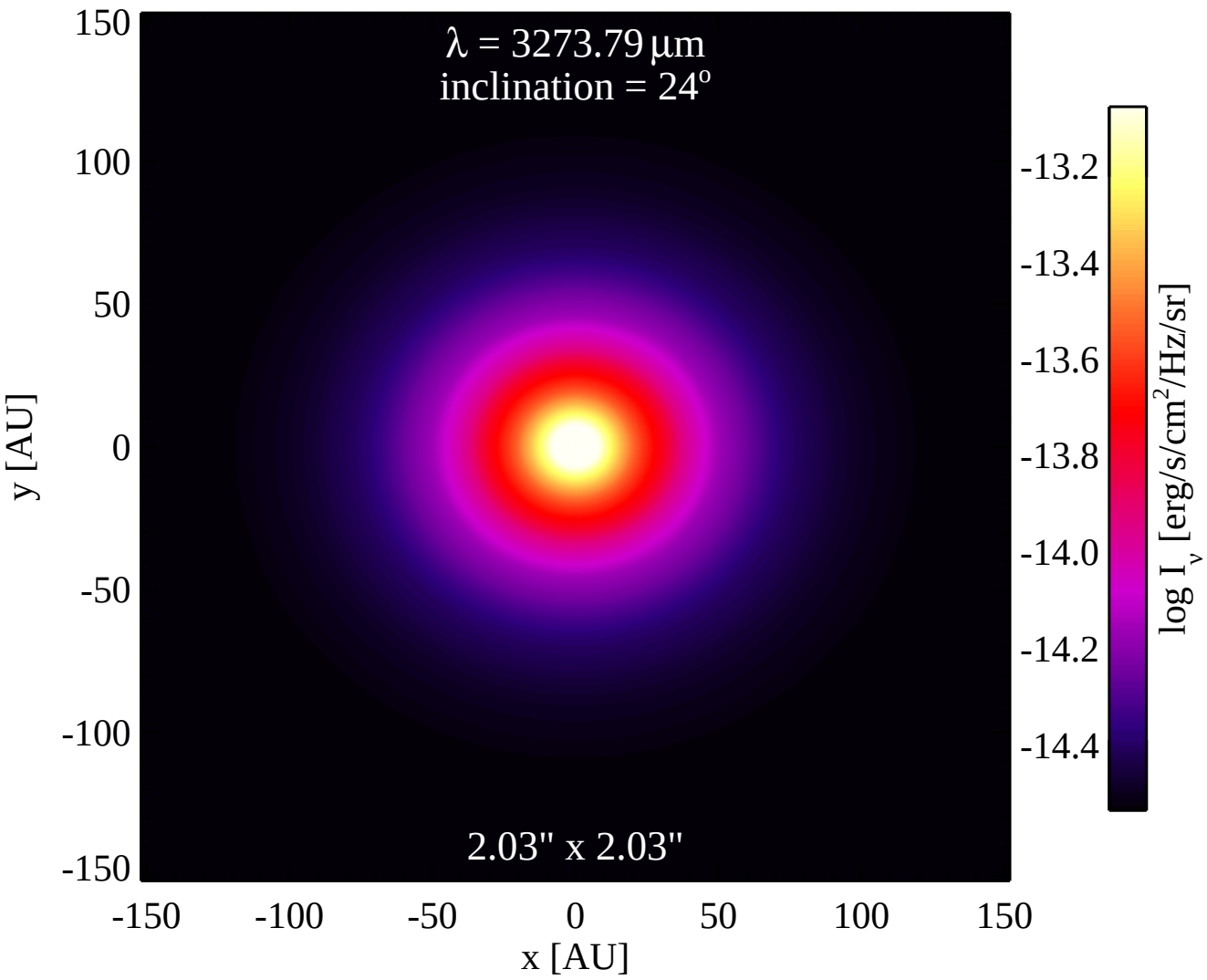

λ = 1250.23 μm
inclination = 24°
2.04" x 2.04"
150
100
50
0
-50
-100
-150
y [AU]
-150
-100
-50
0
50
100
150
x [AU]
-12.5
-13.0
-13.5
-14.0
log I_ν [erg/s/cm²/Hz/sr]

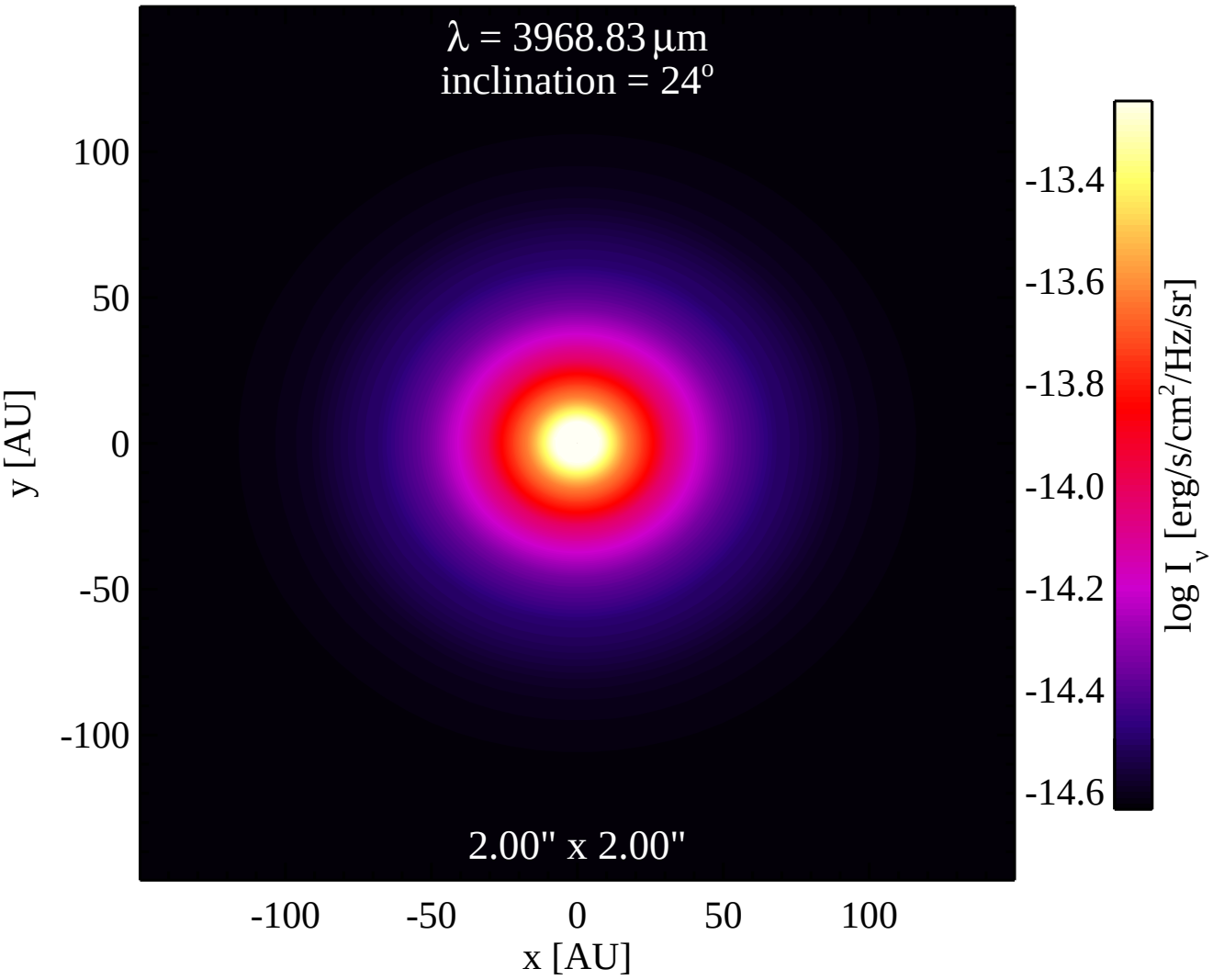

λ = 1515.66 μm
inclination = 24°
2.03" x 2.03"
150
100
50
0
-50
-100
-150
y [AU]
-150
-100
-50
0
50
100
150
x [AU]
-12.5
-13.0
-13.5
-14.0
log I_ν [erg/s/cm²/Hz/sr]

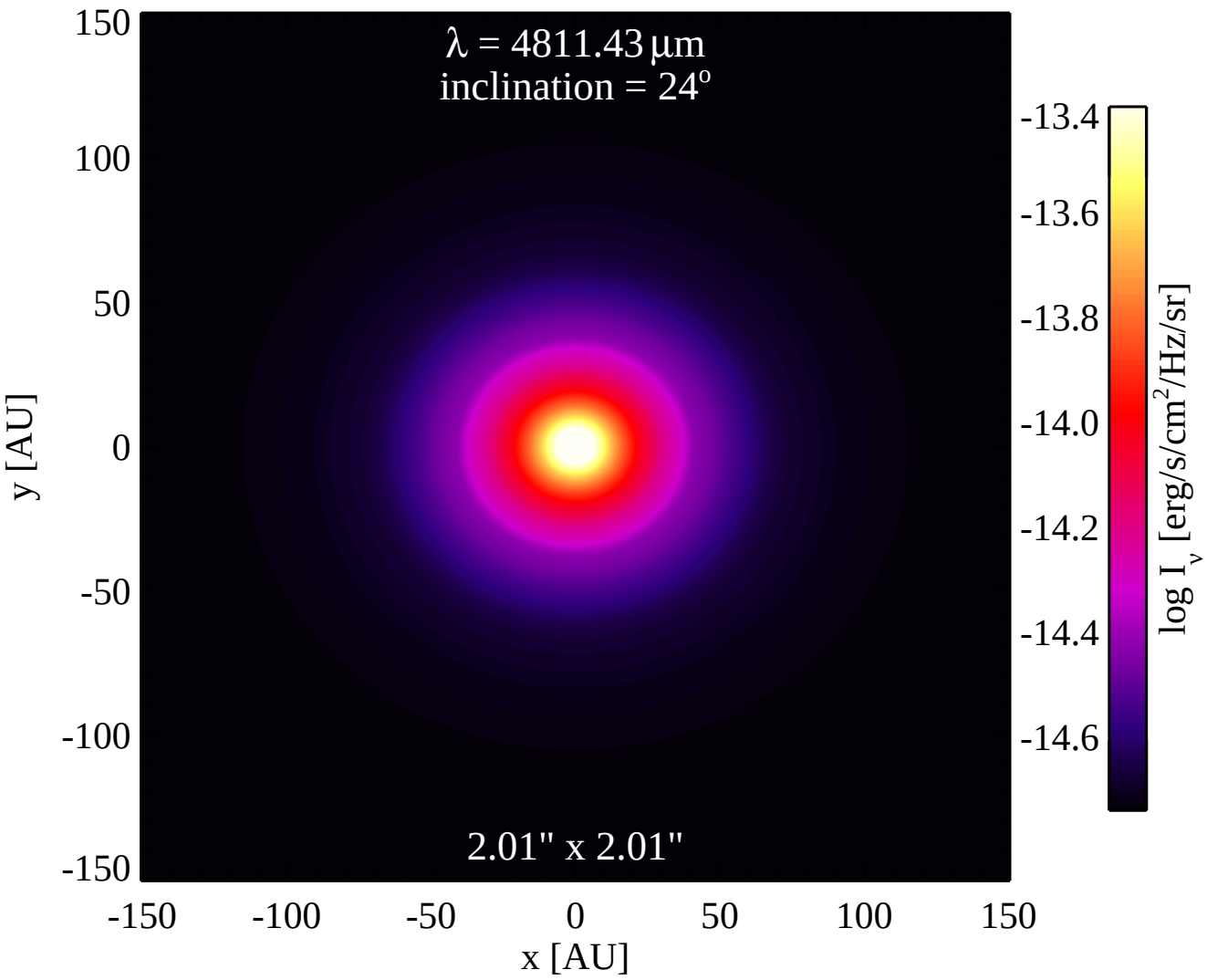

λ = 1837.44 μm
inclination = 24°
2.02" x 2.02"
150
100
50
0
-50
-100
-150
y [AU]
-150
-100
-50
0
50
100
150
x [AU]
-13.0
-13.5
-14.0
log I_ν [erg/s/cm²/Hz/sr]


λ = 2227.54 μm
inclination = 24°
2.02" x 2.02"
150
100
50
0
-50
-100
-150
y [AU]
-150
-100
-50
0
50
100
150
x [AU]
-13.0
-13.5
-14.0
log I_ν [erg/s/cm²/Hz/sr]


λ = 2700.46 μm
inclination = 24°
2.01" x 2.01"
150
100
50
0
-50
-100
-150
y [AU]
-150
-100
-50
0
50
100
150
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 = 3273.79 μm
inclination = 24°
2.03" x 2.03"
150
100
50
0
-50
-100
-150
y [AU]
-150
-100
-50
0
50
100
150
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 = 3968.83 μm
inclination = 24°
2.00" x 2.00"
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 = 4811.43 μm
inclination = 24°
2.01" x 2.01"
150
100
50
0
-50
-100
-150
y [AU]
-150
-100
-50
0
50
100
150
x [AU]
-13.4
-13.6
-13.8
-14.0
-14.2
-14.4
-14.6
log I_ν [erg/s/cm²/Hz/sr]