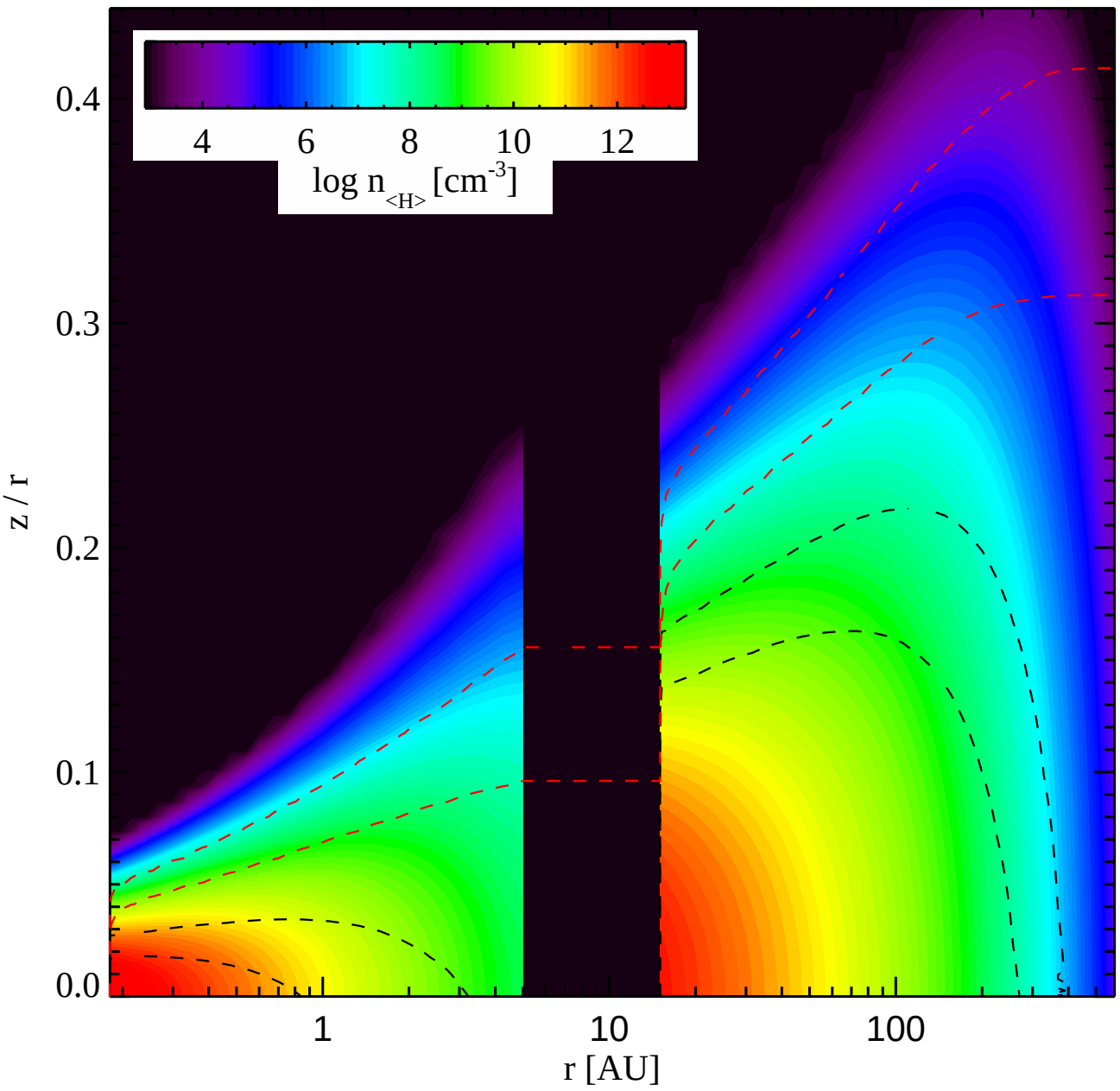
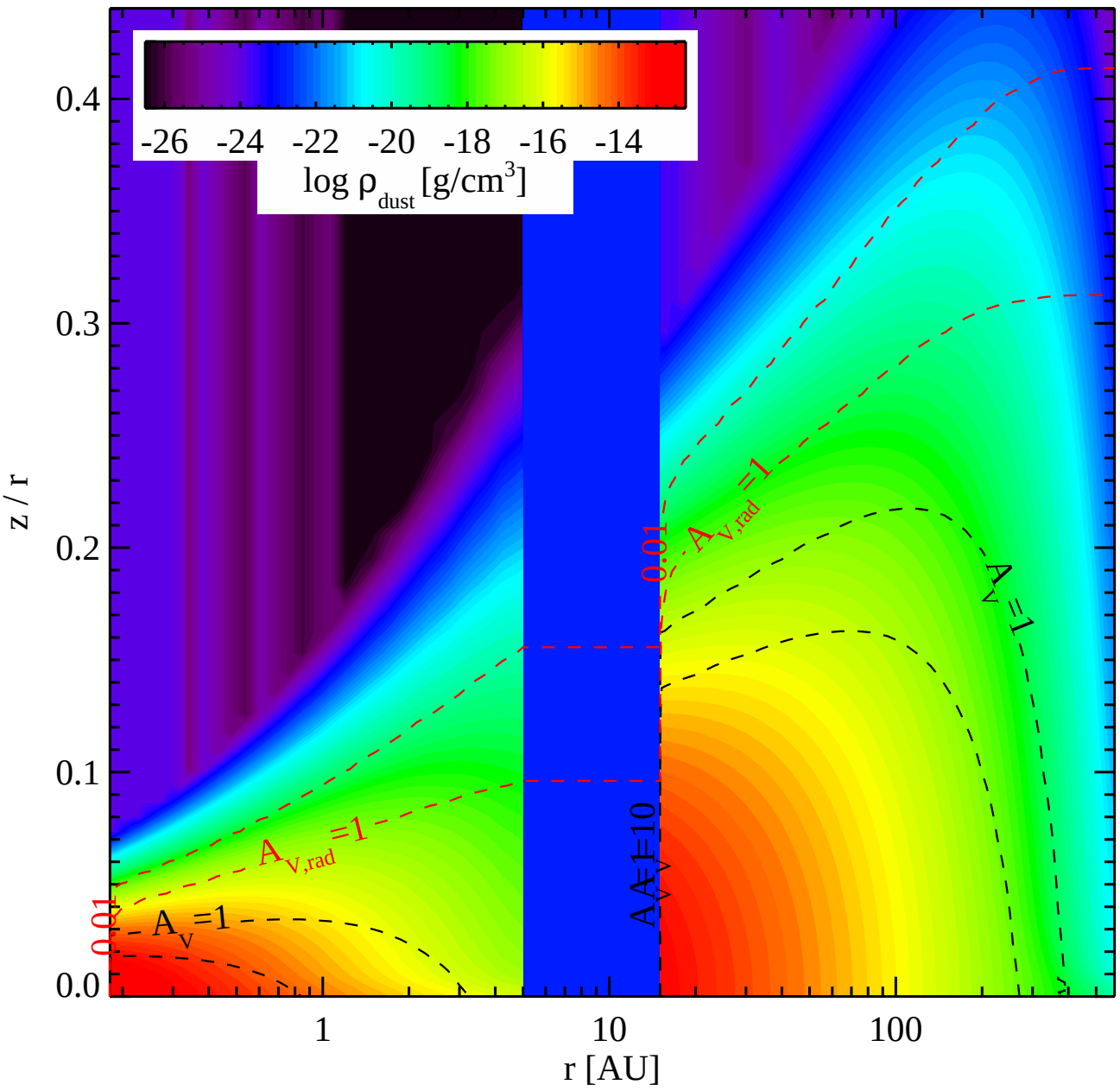
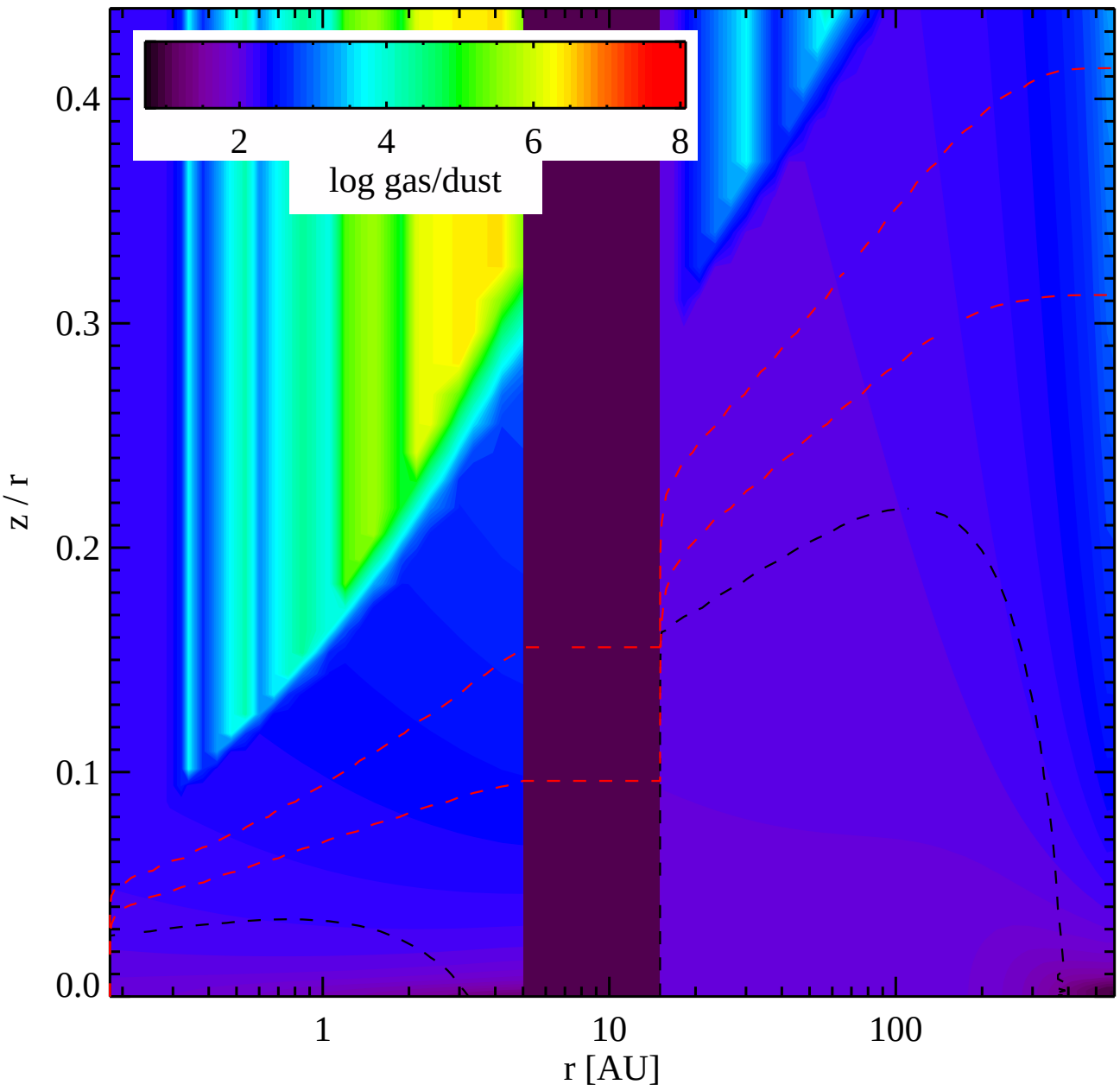
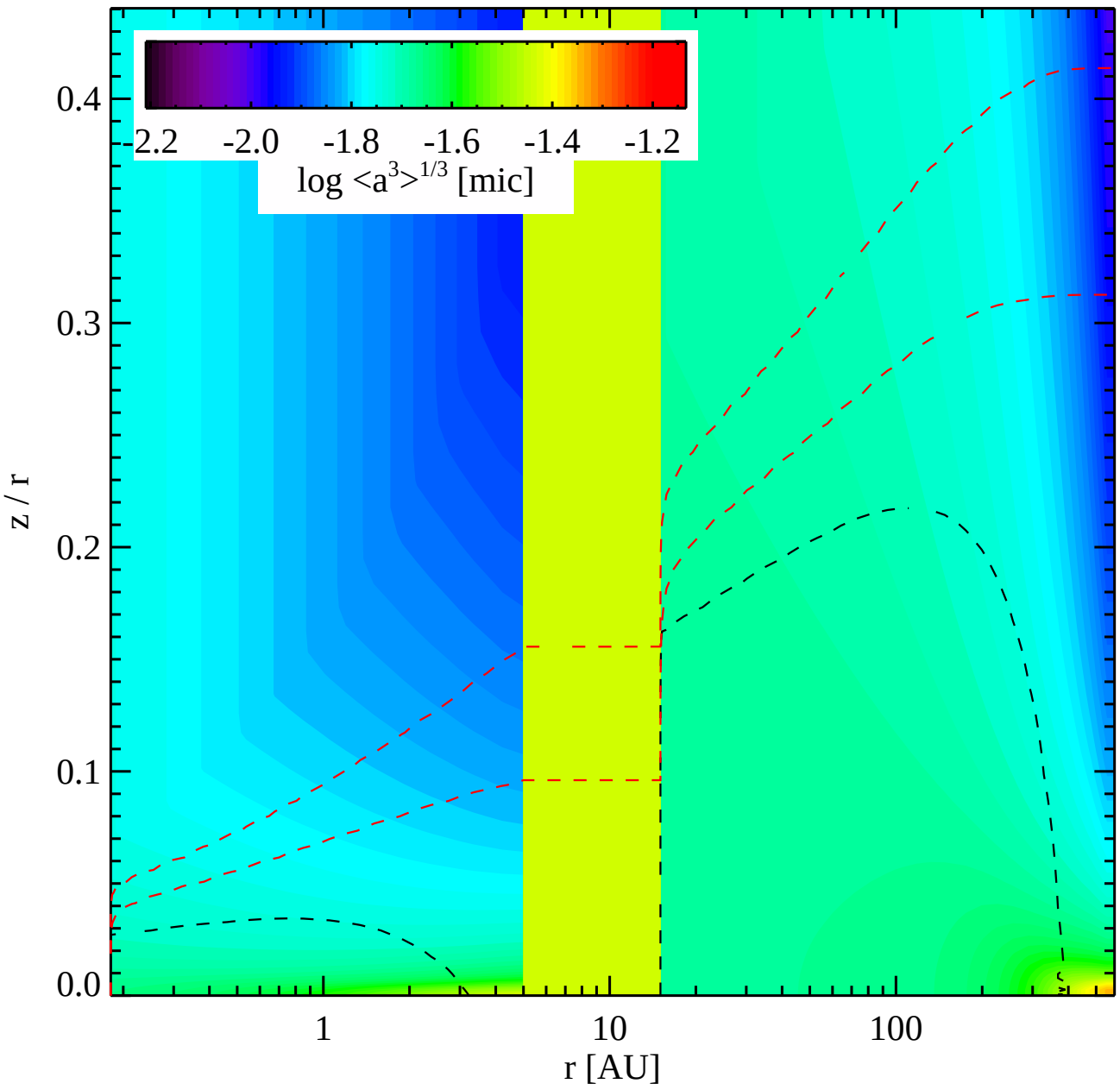
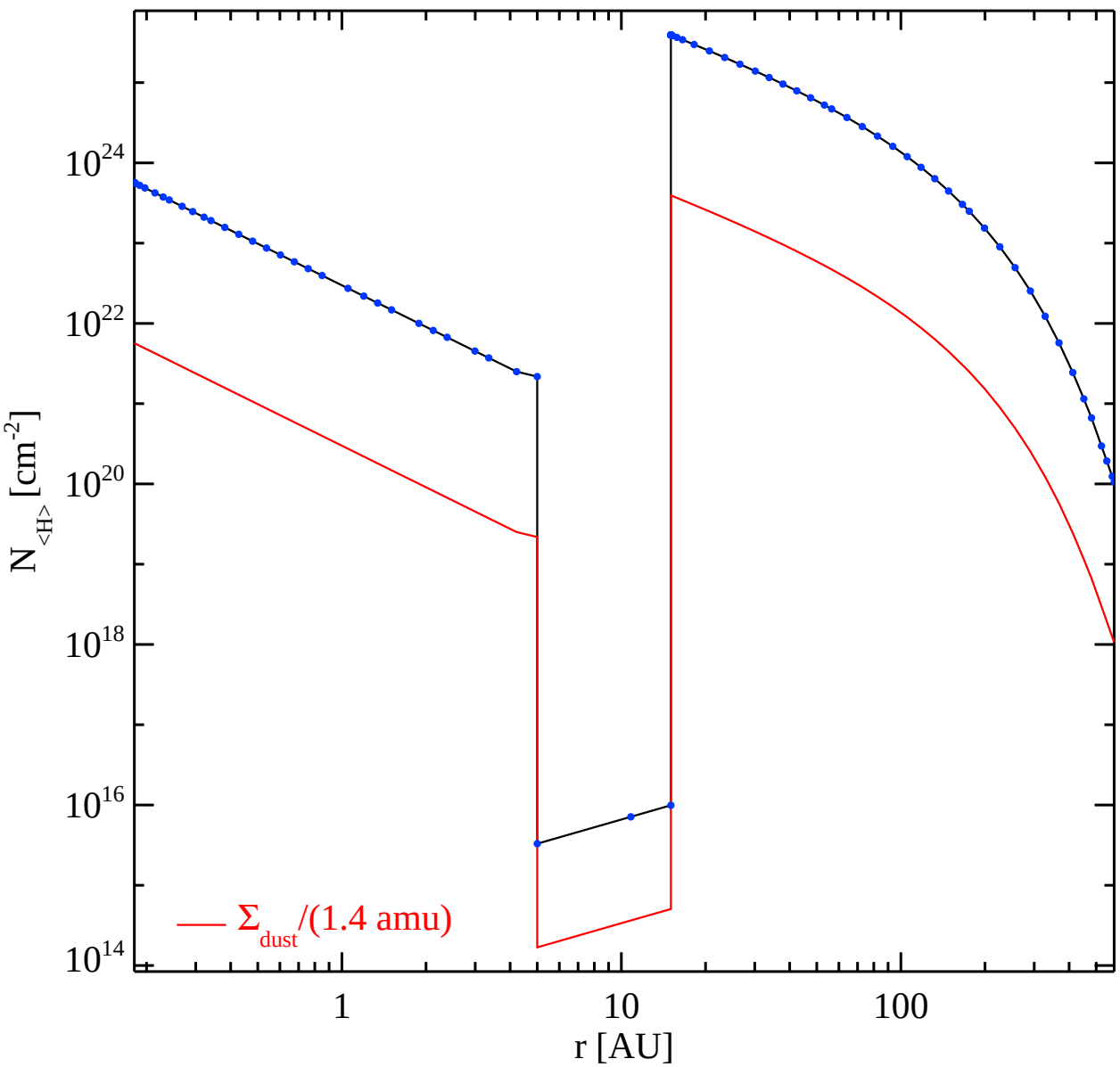

4
6
8
10
12
log n<H> [cm-3]
0.4
0.3
0.2
0.1
0.0
z / r
1
10
100
r [AU]

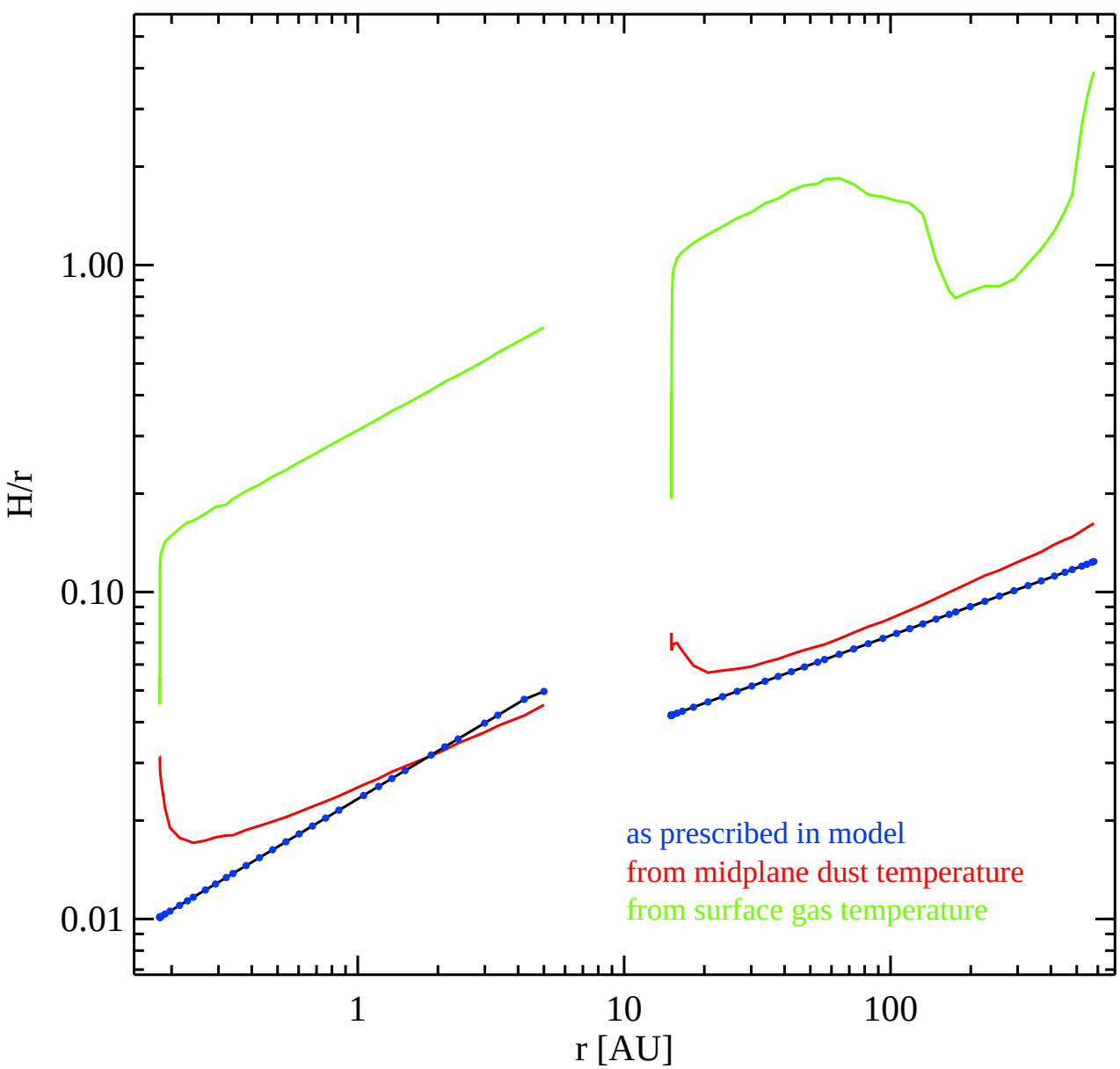


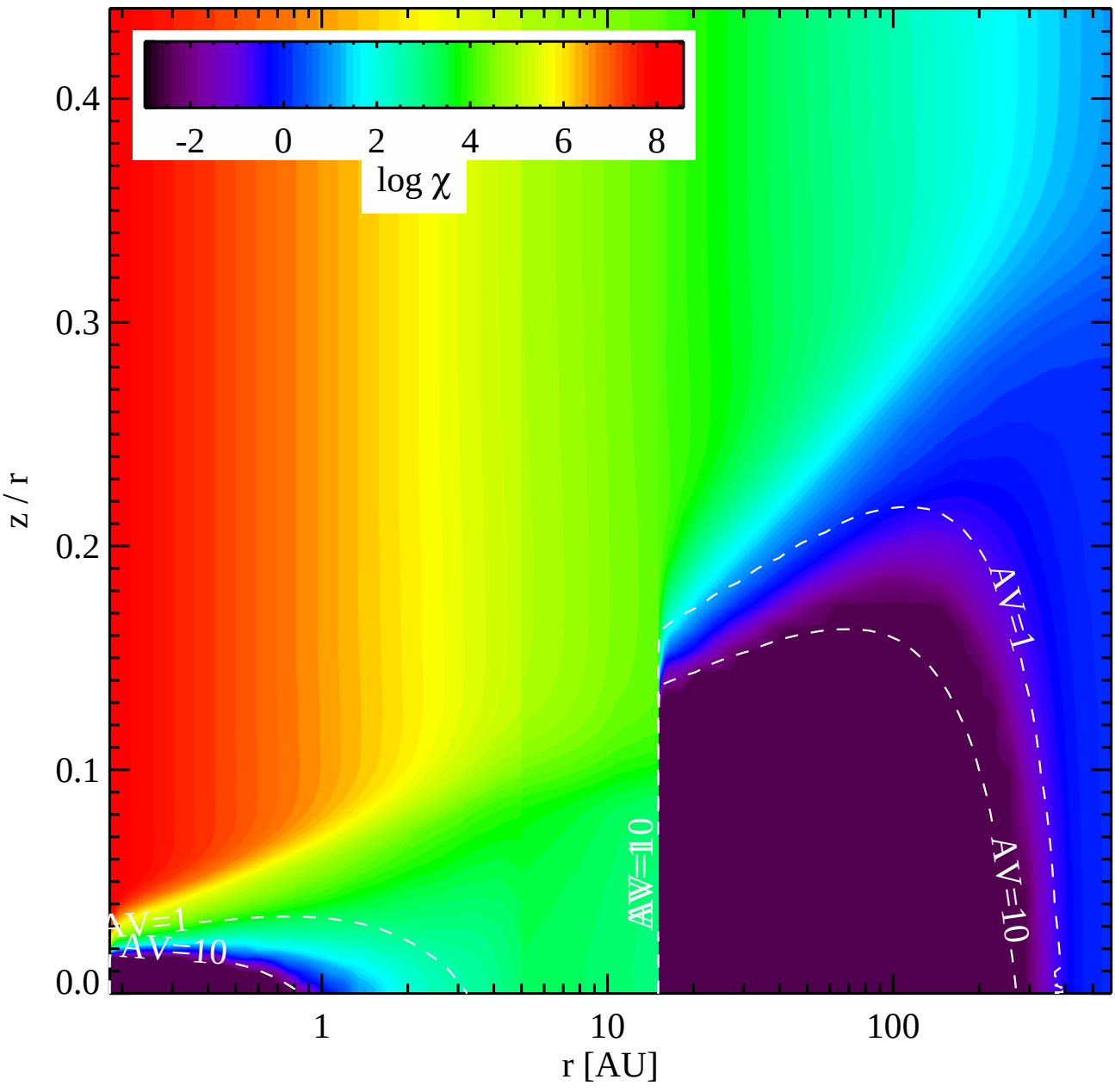
-26 -24 -22 -20 -18 -16 -14
log ρ_dust [g/cm^3]
0.4
0.3
0.2
0.1
0.0
z / r
1
10
100
r [AU]
A_V=1
A_V,rad=1
0.01
A_V=1
A_V,rad=1
0.01
A_V=1
A_V=10

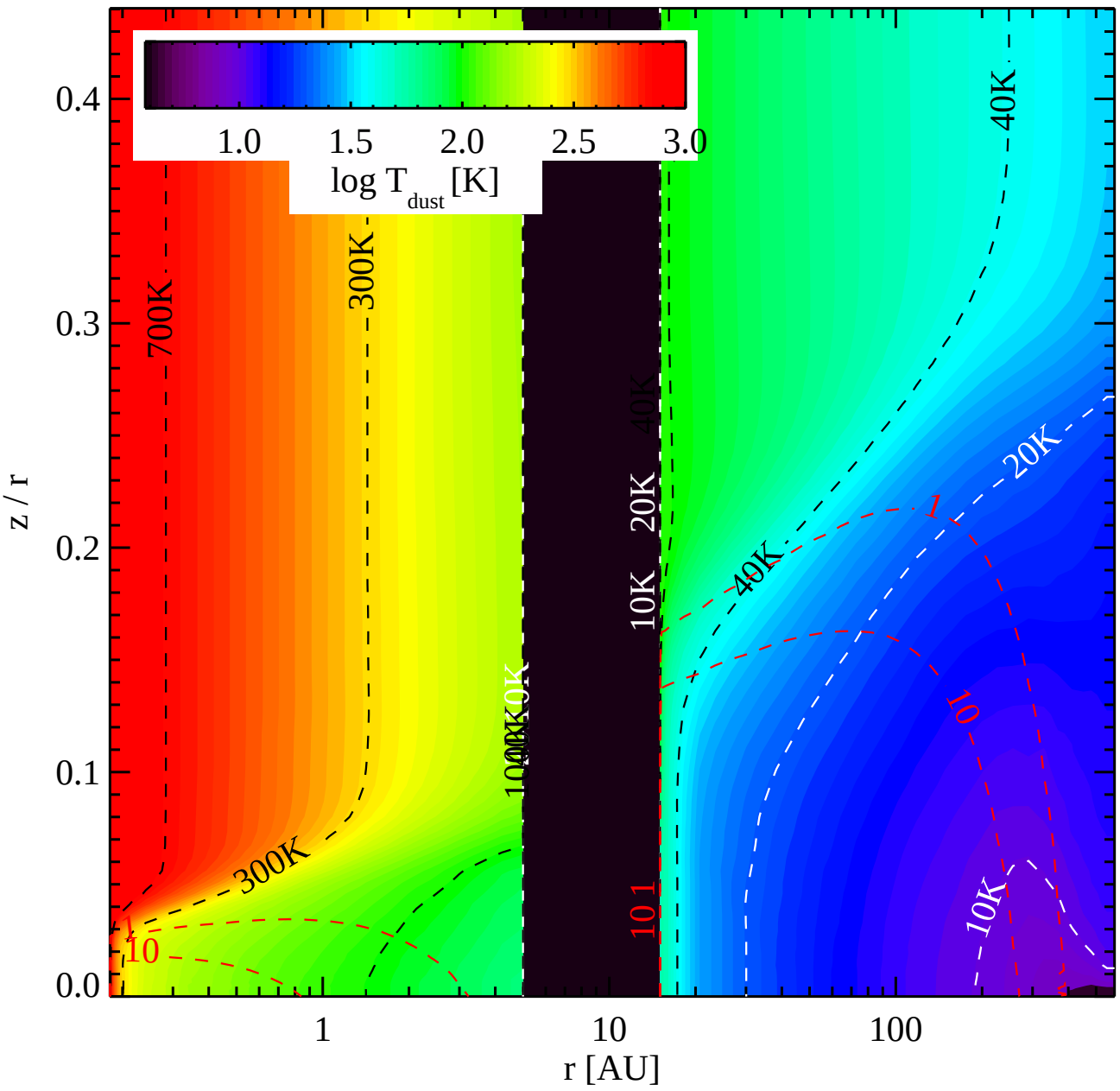

2
4
6
8
log gas/dust
0.4
0.3
0.2
0.1
0.0
z / r
1
10
100
r [AU]

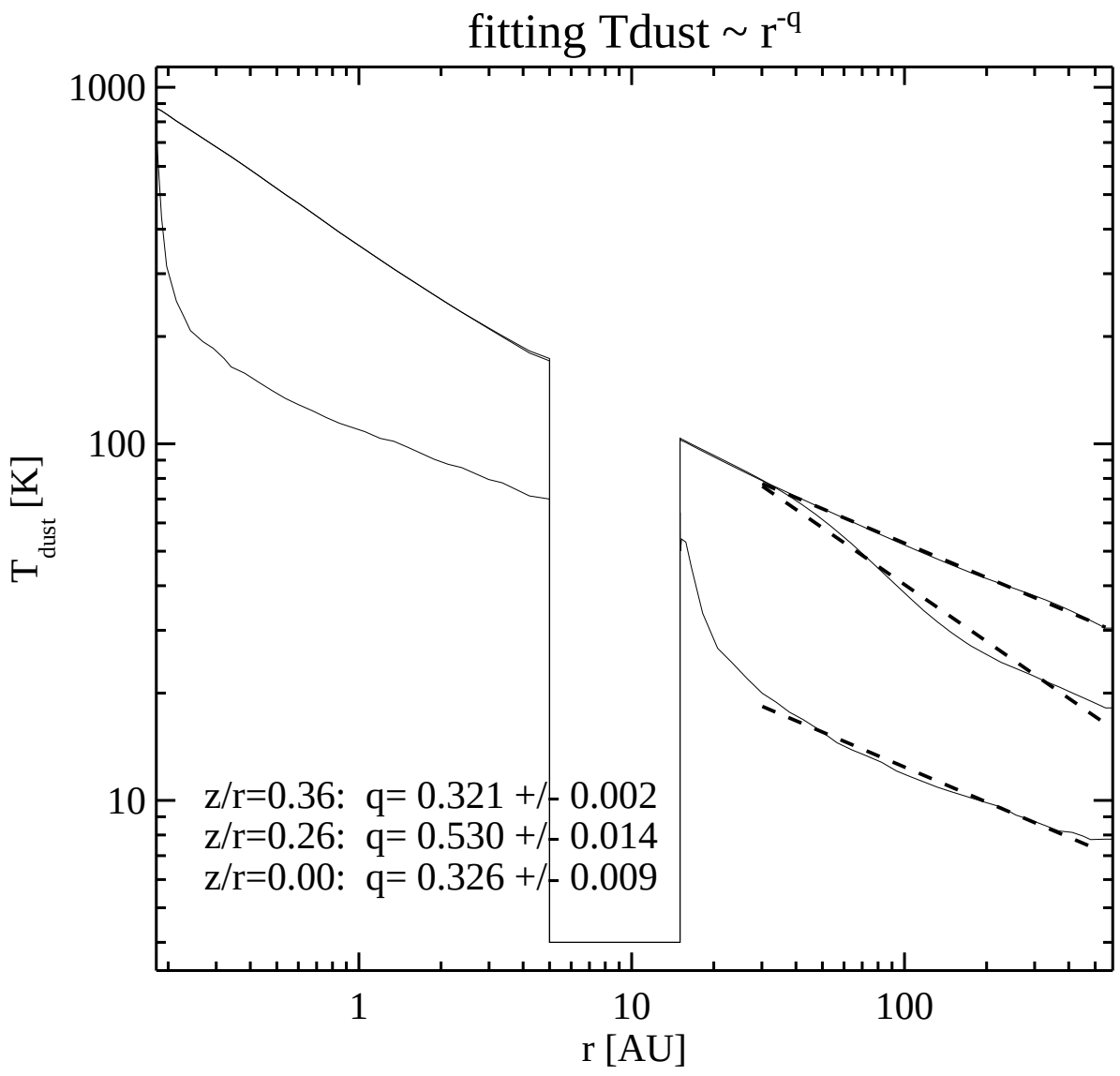

-2.2
-2.0
-1.8
-1.6
-1.4
-1.2
log <a^3>^1/3 [mic]
0.4
0.3
0.2
0.1
0.0
z / r
1
10
100
r [AU]

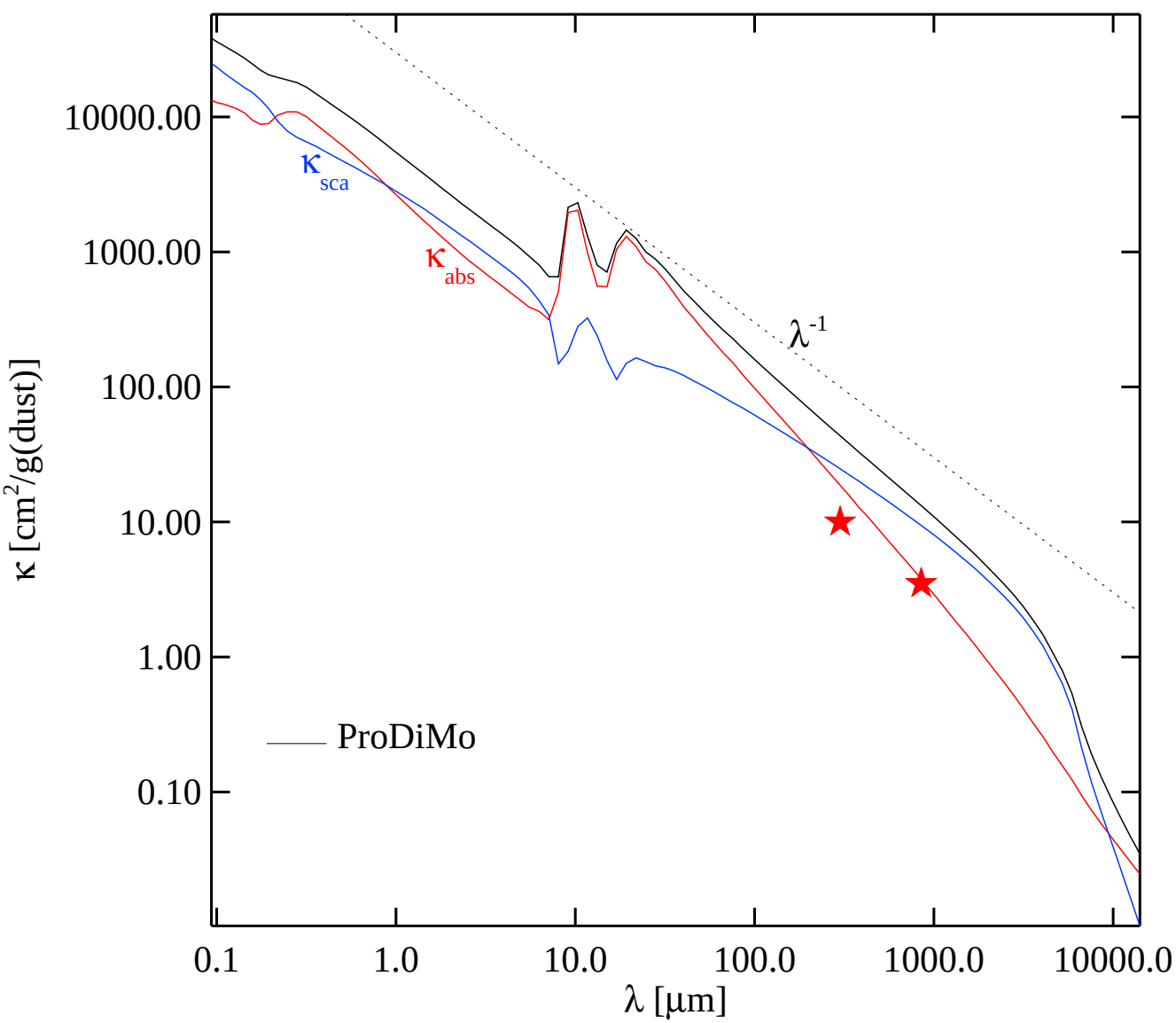

10^{24}
10^{22}
10^{20}
10^{18}
10^{16}
10^{14}
$N_{<H>}$ [cm^{-2}]
1
10
100
r [AU]
Σ_{dust}/(1.4 amu)

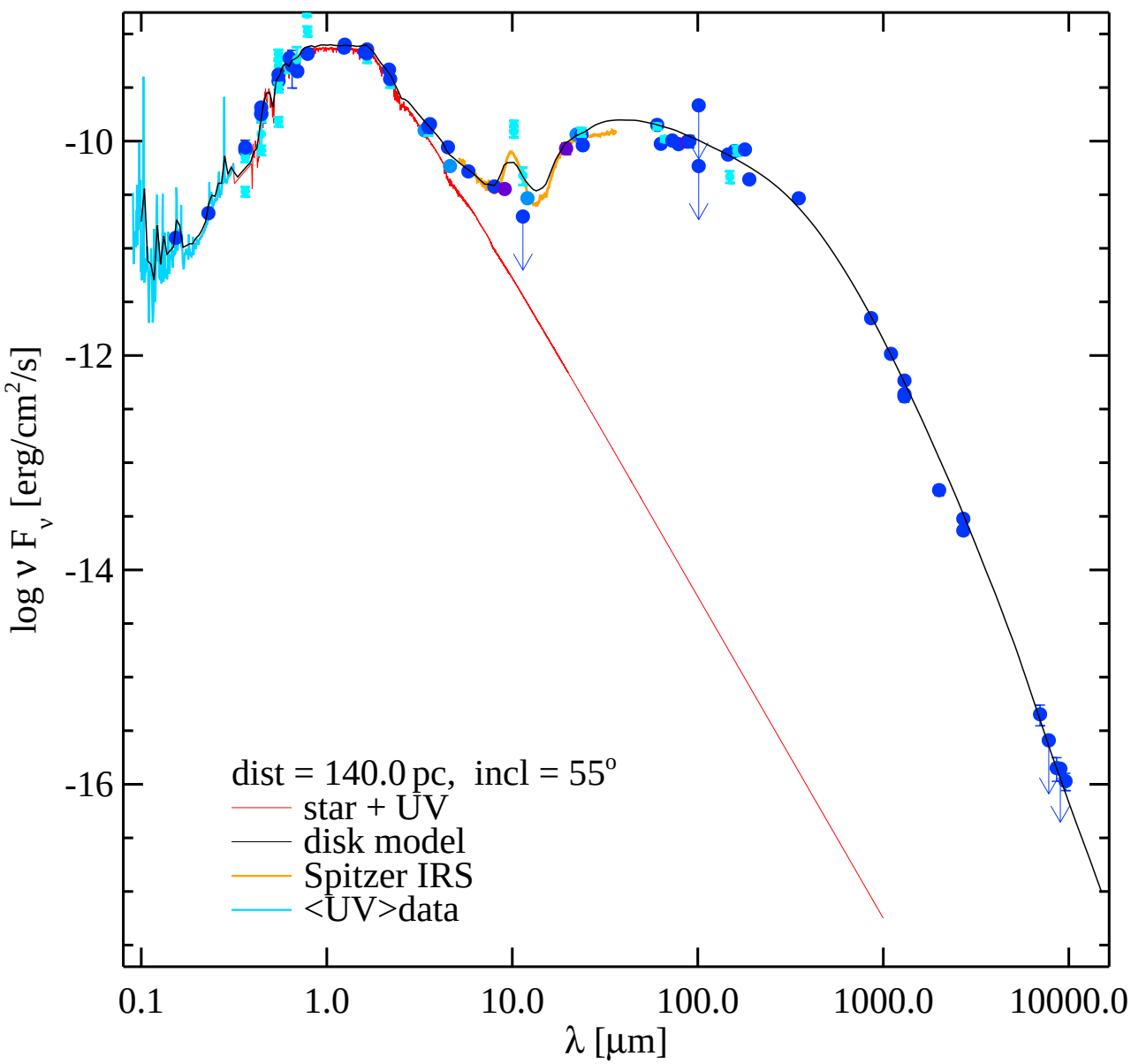

1.00
0.10
0.01
H/r
1
10
100
r [AU]
as prescribed in model
from midplane dust temperature
from surface gas temperature

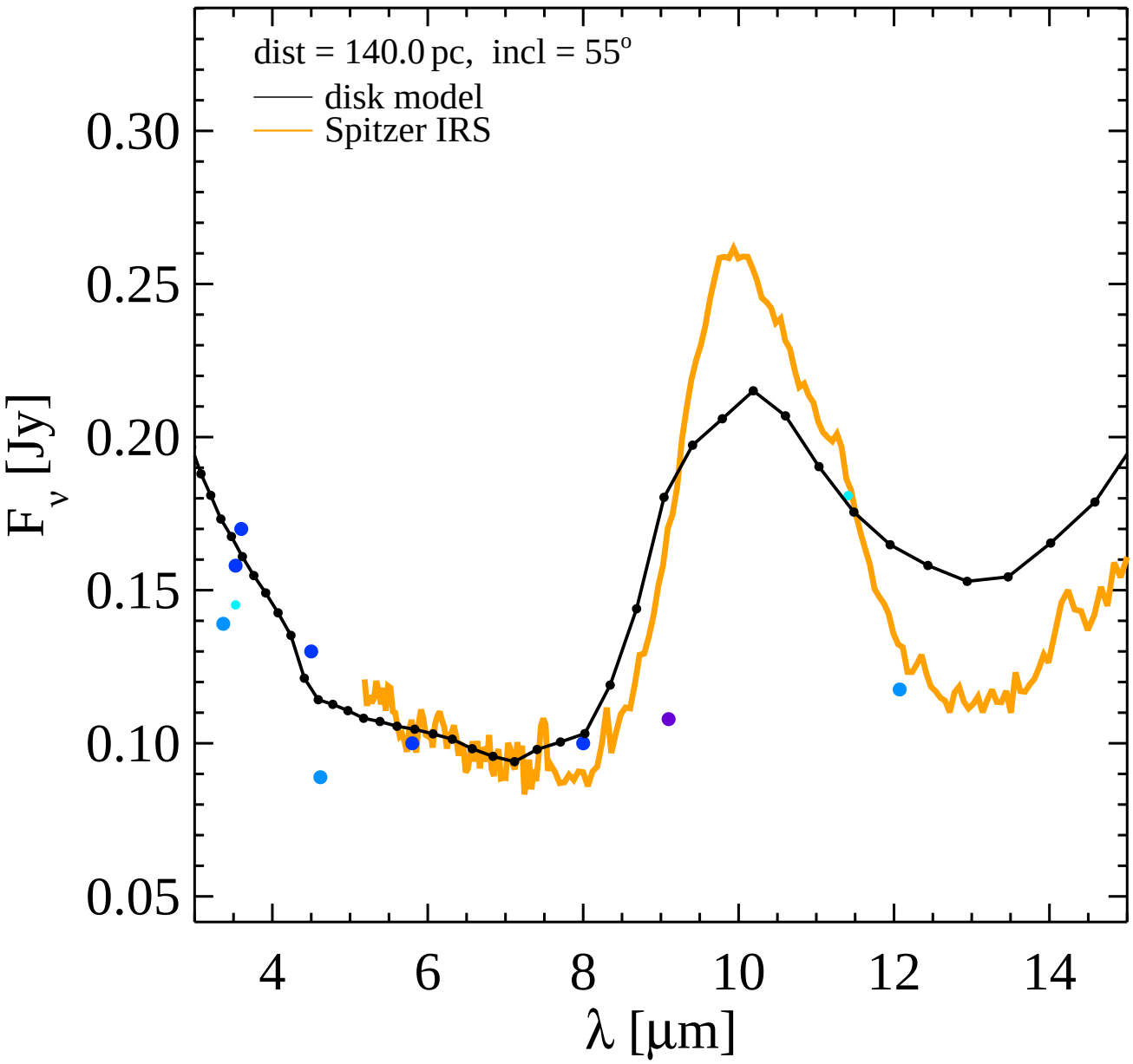

-2
0
2
4
6
8
log χ
0.4
0.3
0.2
0.1
0.0
z / r
1
10
100
r [AU]
AV=1
AV=10
AV=10
AV=1
AV=10

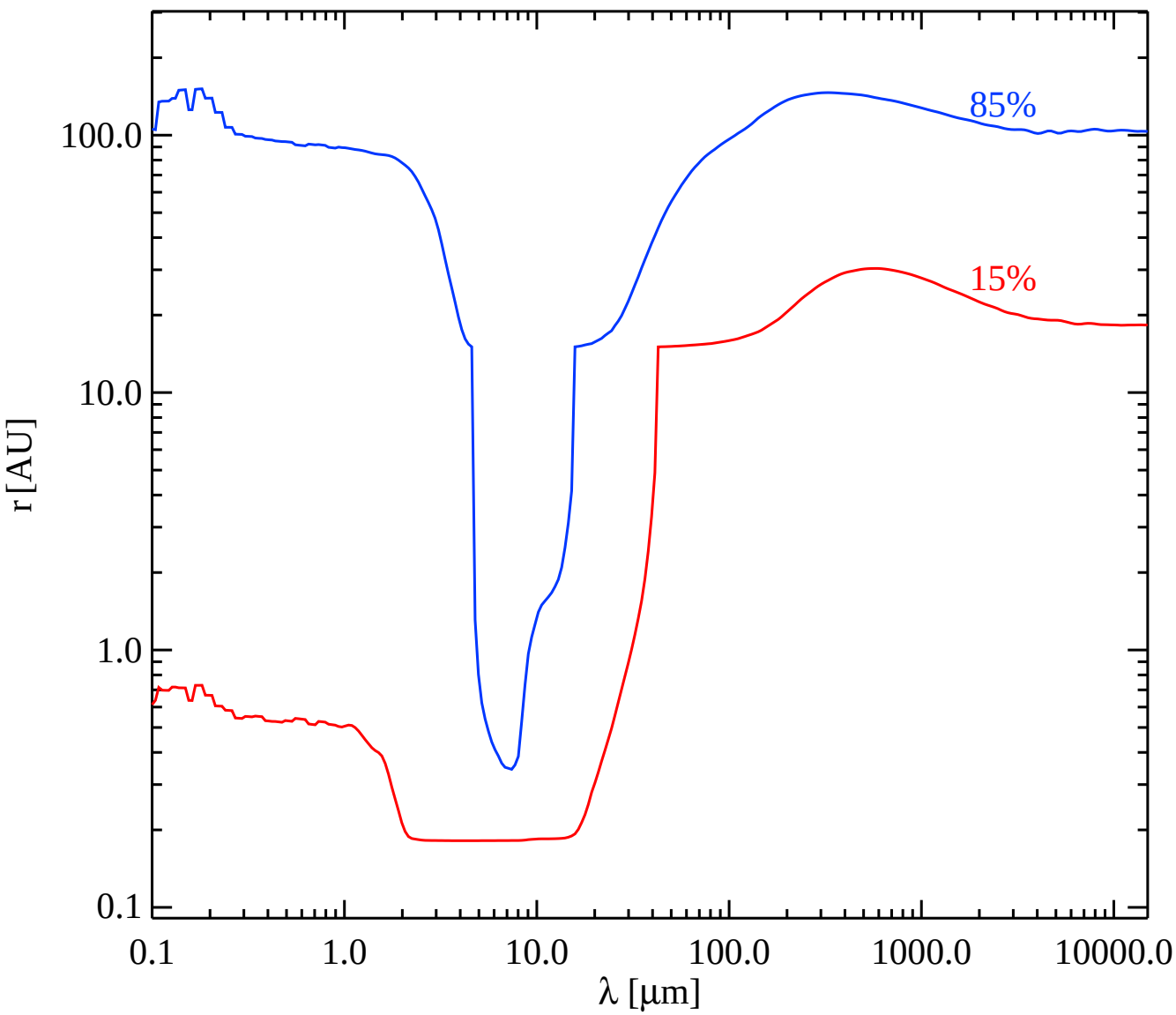

1.0
1.5
2.0
2.5
3.0
log T dust [K]
700K
300K
100K
40K
20K
10K
1
10
0.4
0.3
0.2
0.1
0.0
z / r
1
10
100
r [AU]

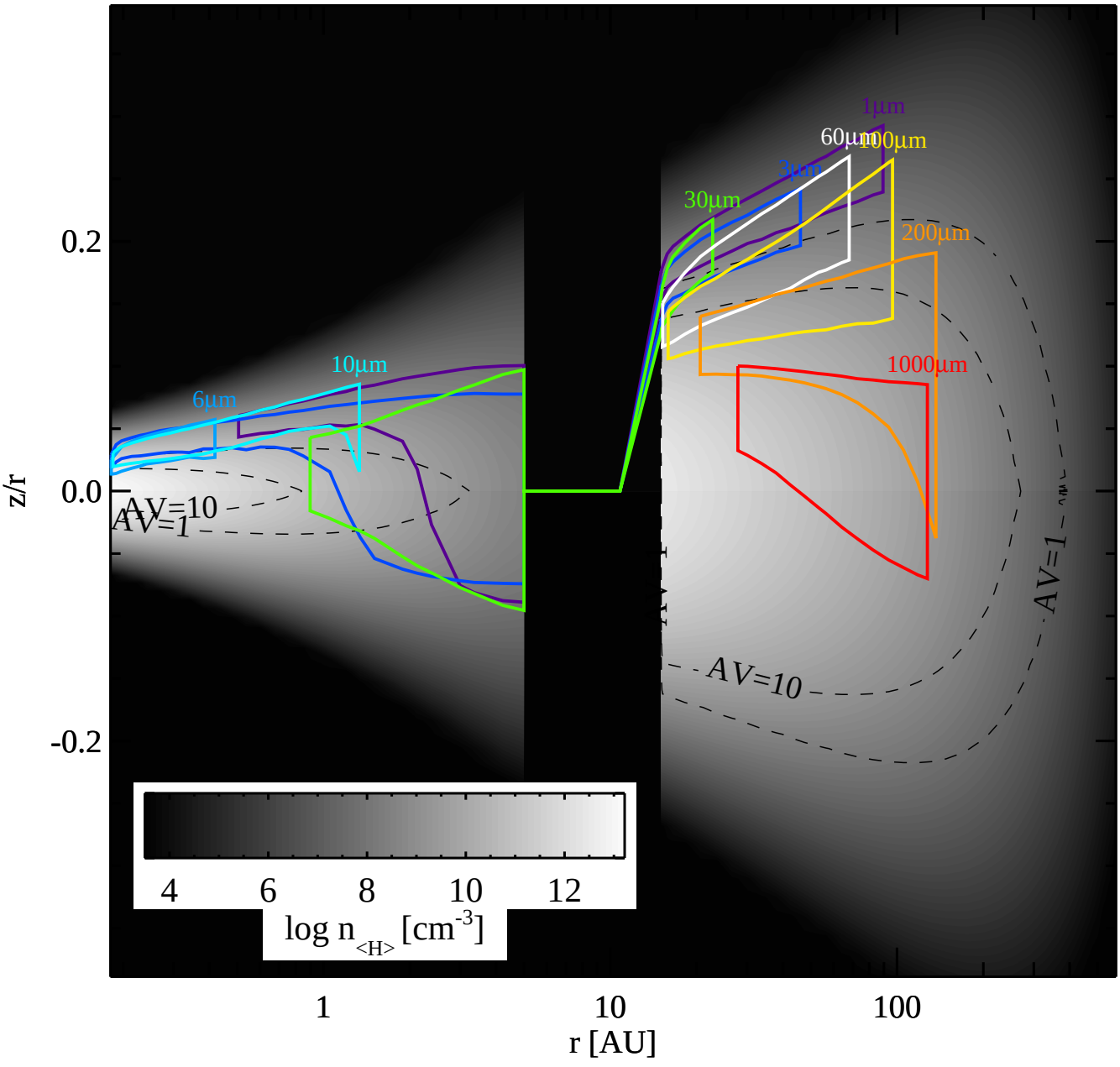

fitting Tdust ~ r^-q
1000
100
10
T dust [K]
1
10
100
r [AU]
z/r=0.36: q= 0.321 +/- 0.002
z/r=0.26: q= 0.530 +/- 0.014
z/r=0.00: q= 0.326 +/- 0.009

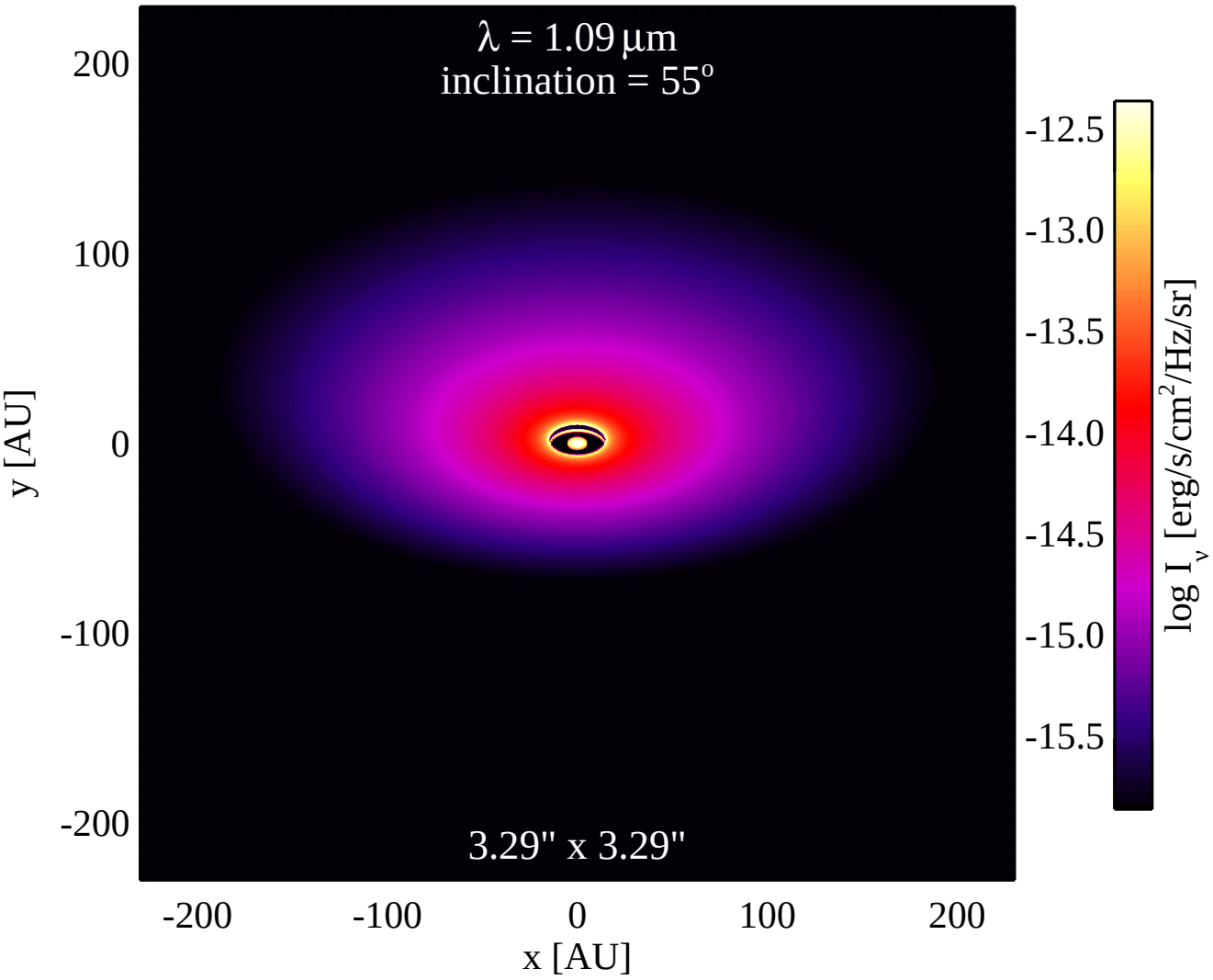

10000.00
1000.00
100.00
10.00
1.00
0.10
κ [cm²/g(dust)]
κ sca
κ abs
λ -1
ProDiMo
0.1
1.0
10.0
100.0
1000.0
10000.0
λ [μm]

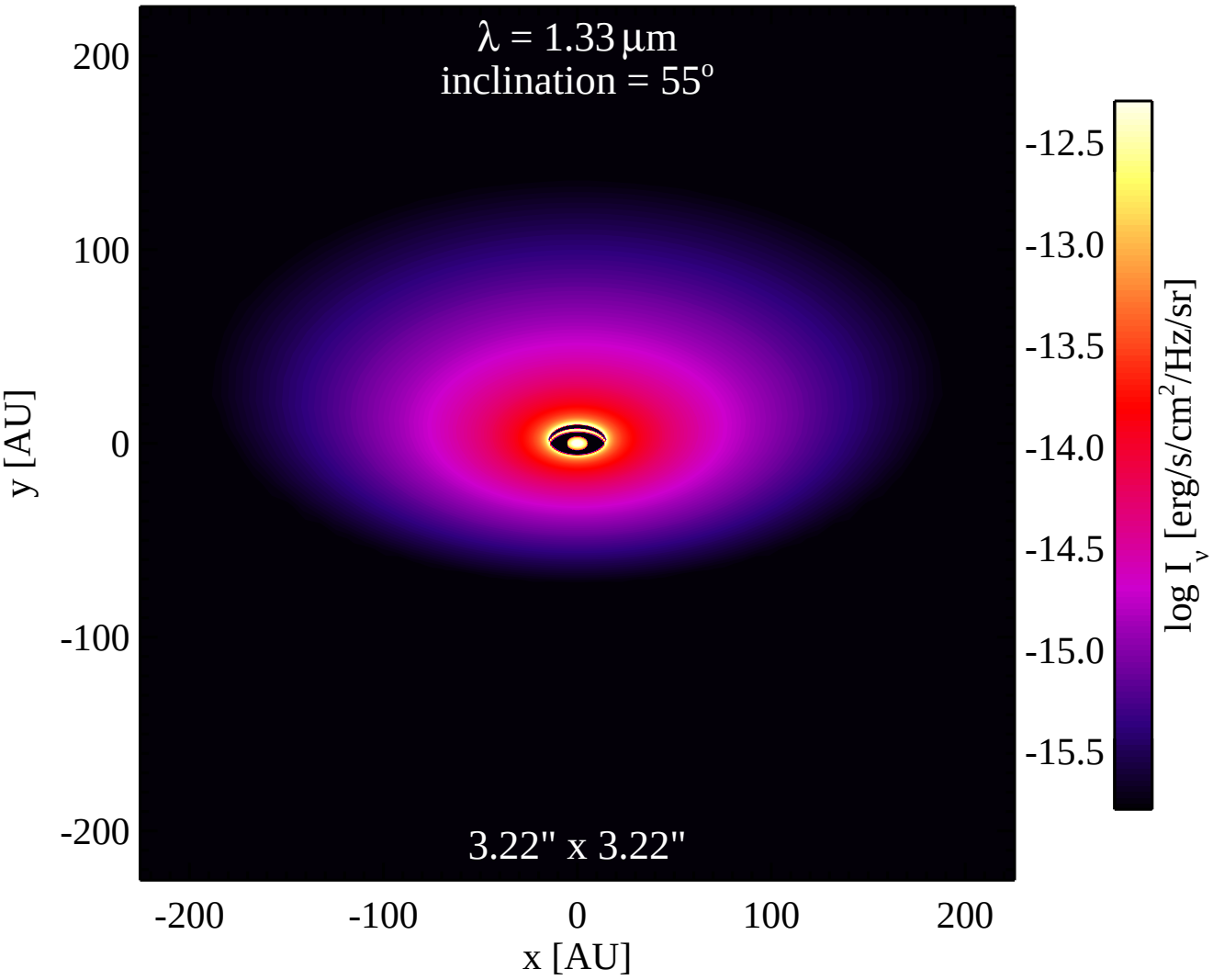

-10
-12
-14
-16
log ν F_ν [erg/cm²/s]
0.1
1.0
10.0
100.0
1000.0
10000.0
λ [μm]
dist = 140.0 pc, incl = 55°
star + UV
disk model
Spitzer IRS
<UV>data

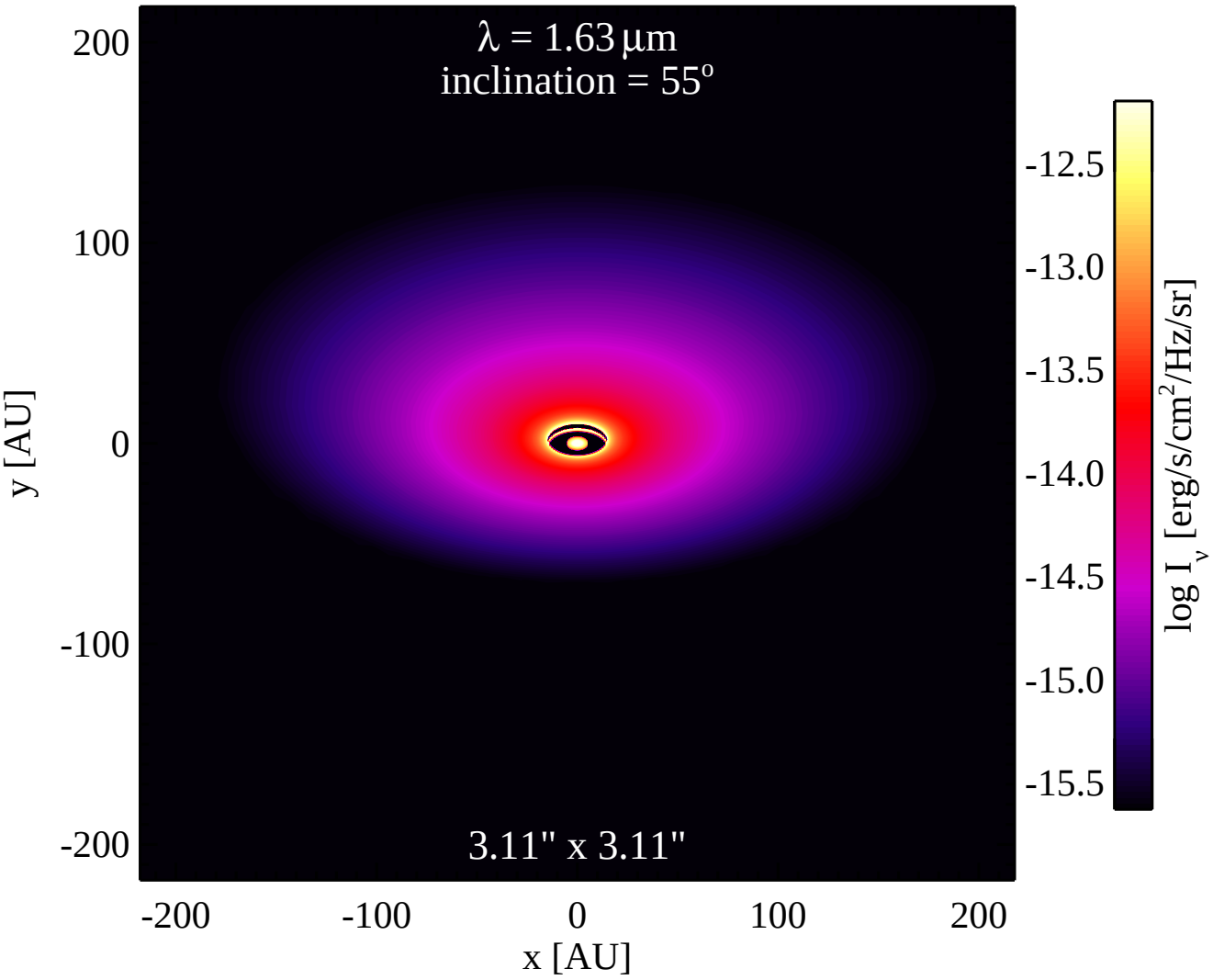

dist = 140.0 pc, incl = 55°
disk model
Spitzer IRS
0.30
0.25
0.20
0.15
0.10
0.05
F_ν [Jy]
4
6
8
10
12
14
λ [μm]

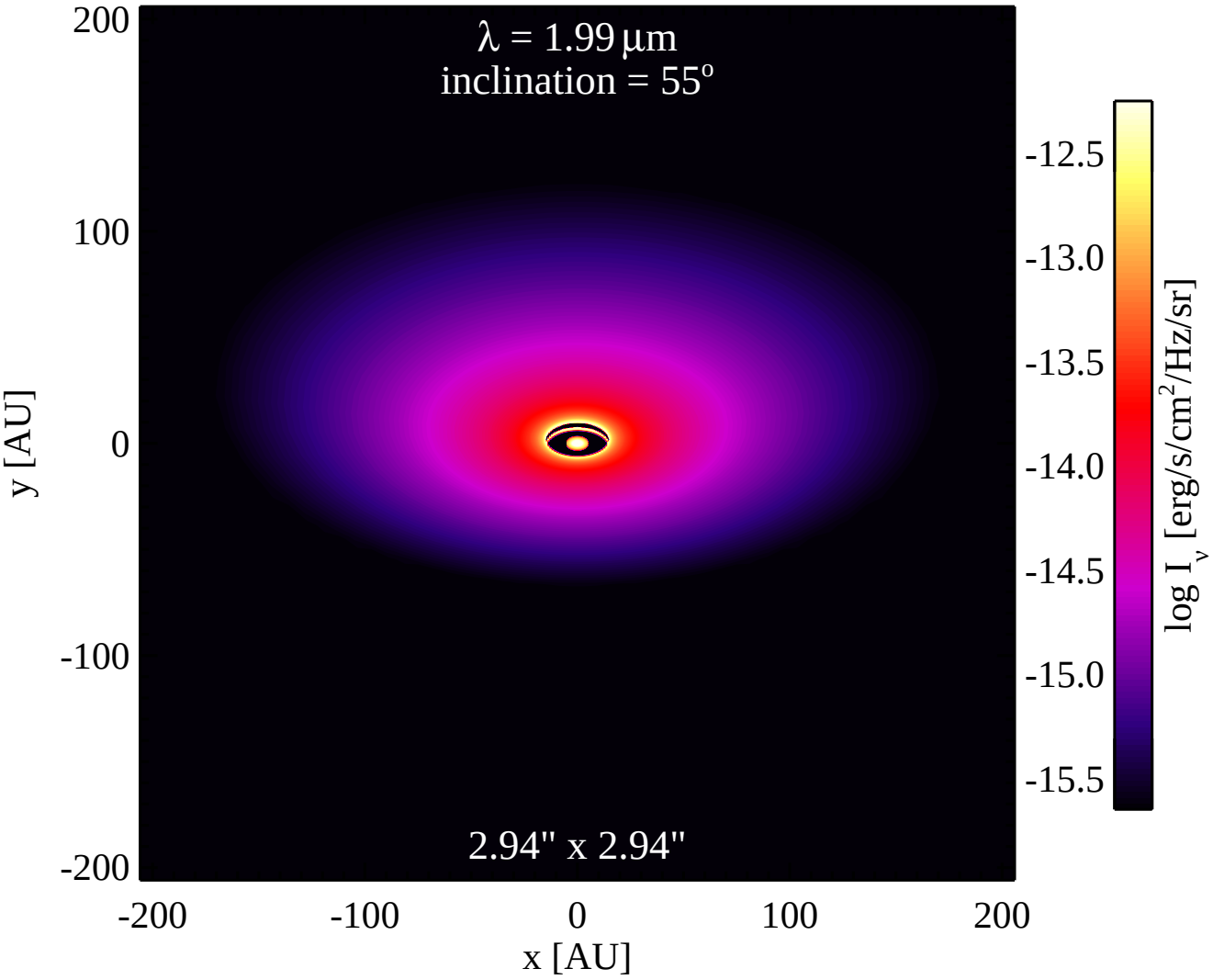

85%
15%
100.0
10.0
1.0
0.1
r [AU]
0.1
1.0
10.0
100.0
1000.0
10000.0
λ [μm]

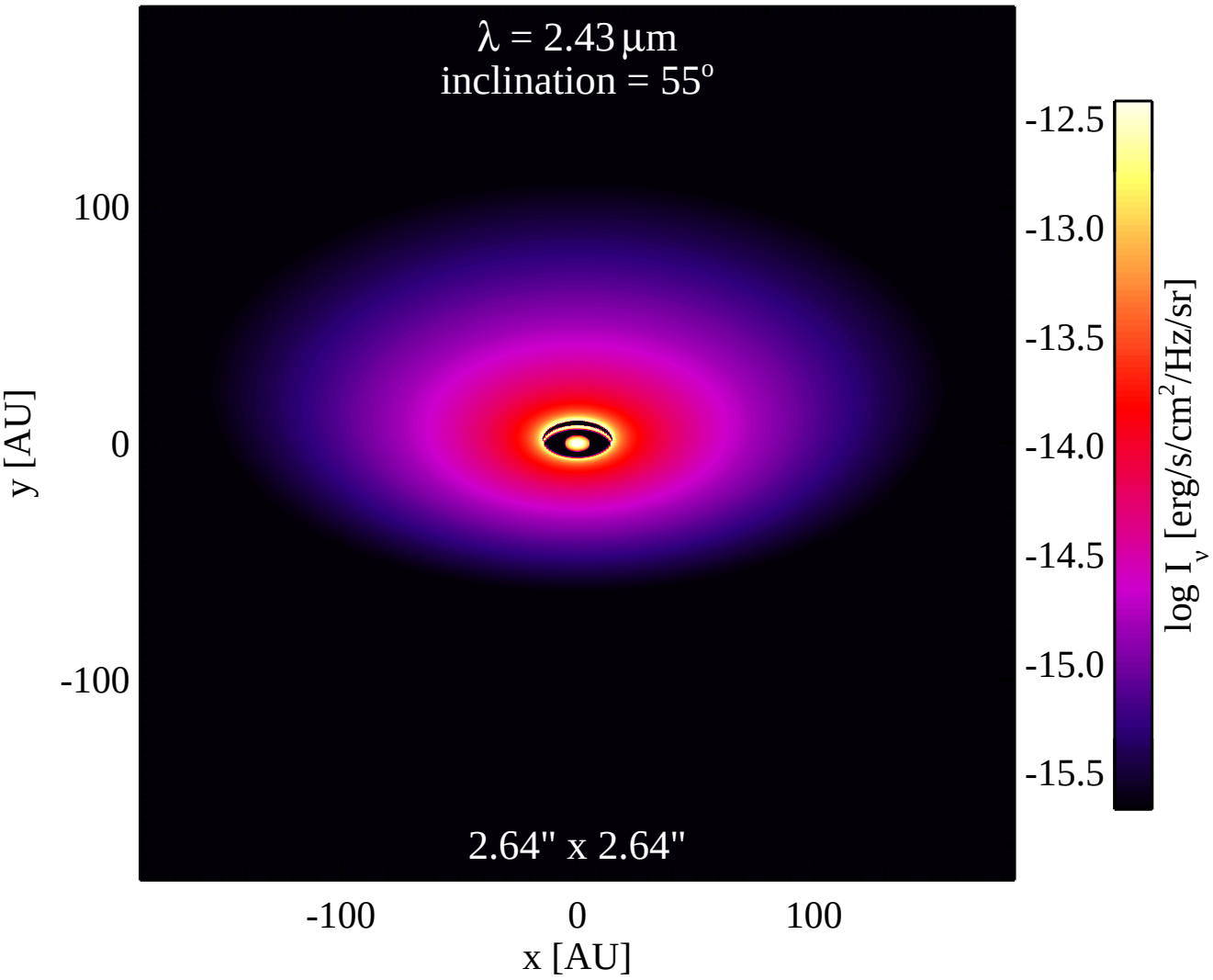

1µm
60µm
100µm
3µm
30µm
200µm
1000µm
10µm
6µm
AV=10
AV=1
AV=1
AV=10
0.2
0.0
-0.2
z/r
4
6
8
10
12
log n<H> [cm-3]
1
10
100
r [AU]

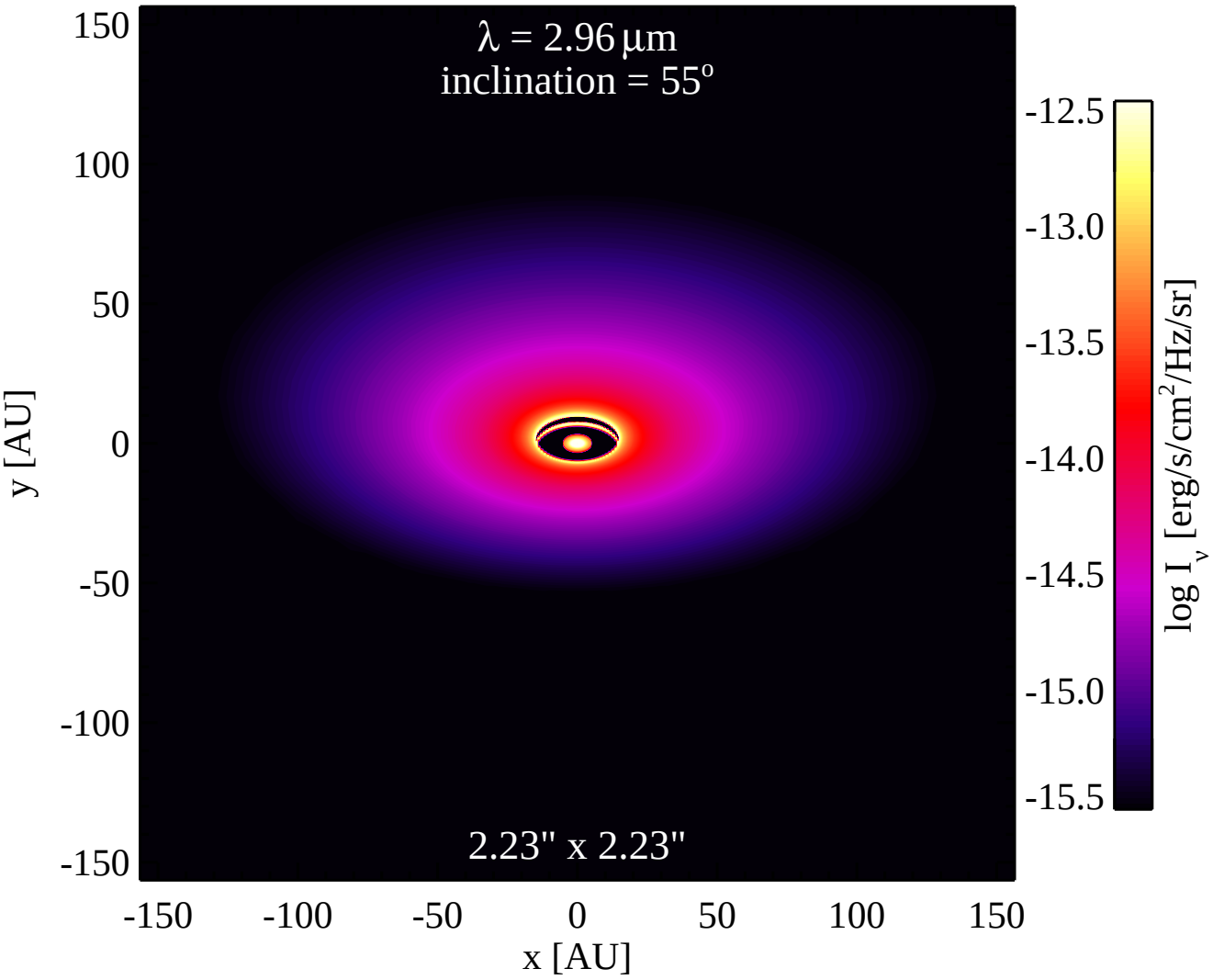

λ = 1.09 μm
inclination = 55°
3.29" x 3.29"
200
100
0
-100
-200
y [AU]
-200
-100
0
100
200
x [AU]
-12.5
-13.0
-13.5
-14.0
-14.5
-15.0
-15.5
log I_ν [erg/s/cm²/Hz/sr]

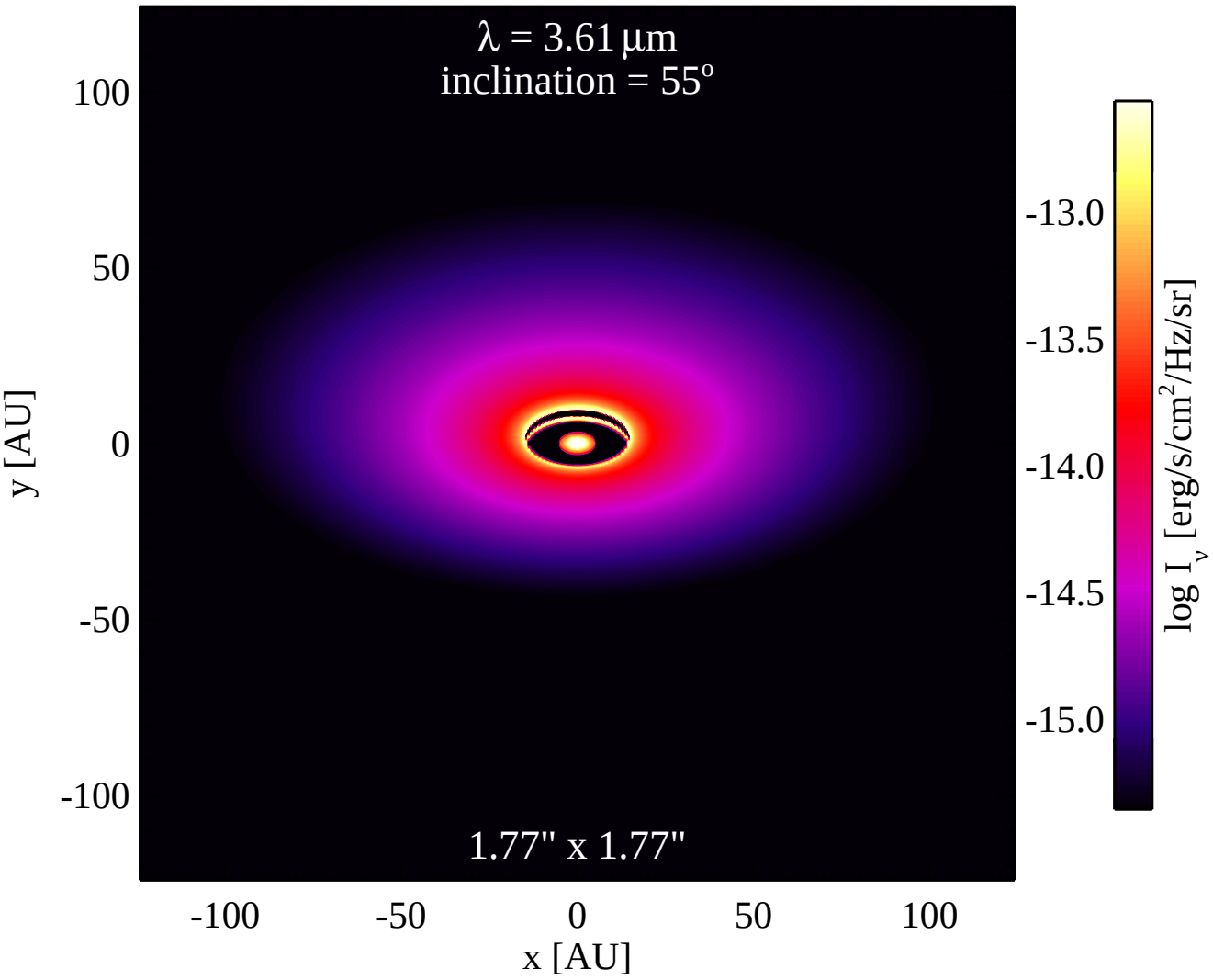

λ = 1.33 μm
inclination = 55°
3.22" x 3.22"
200
100
0
-100
-200
y [AU]
-200
-100
0
100
200
x [AU]
-12.5
-13.0
-13.5
-14.0
-14.5
-15.0
-15.5
log I_ν [erg/s/cm²/Hz/sr]

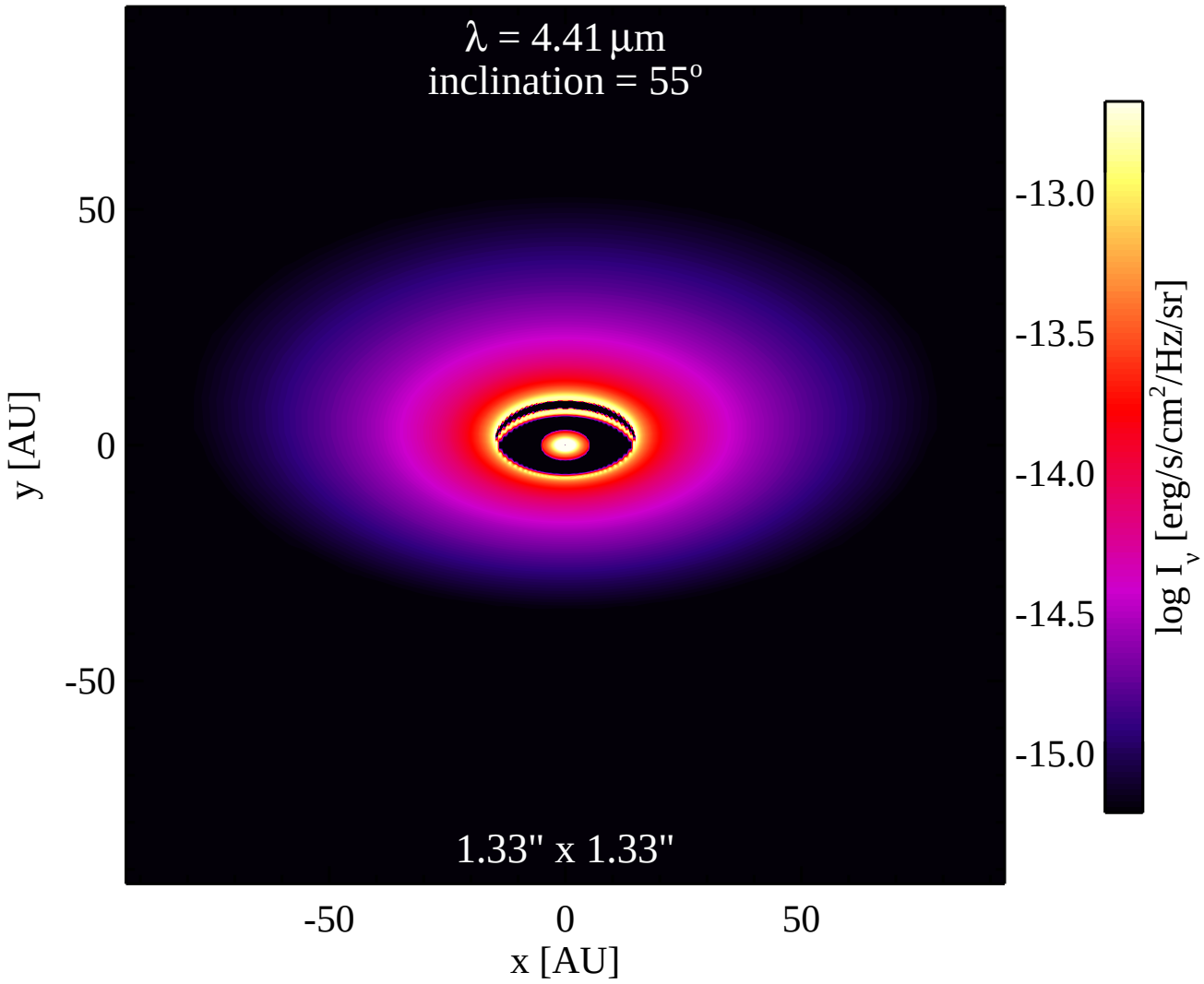

λ = 1.63 μm
inclination = 55°
3.11" x 3.11"
200
100
0
-100
-200
y [AU]
-200
-100
0
100
200
x [AU]
-12.5
-13.0
-13.5
-14.0
-14.5
-15.0
-15.5
log I_ν [erg/s/cm²/Hz/sr]

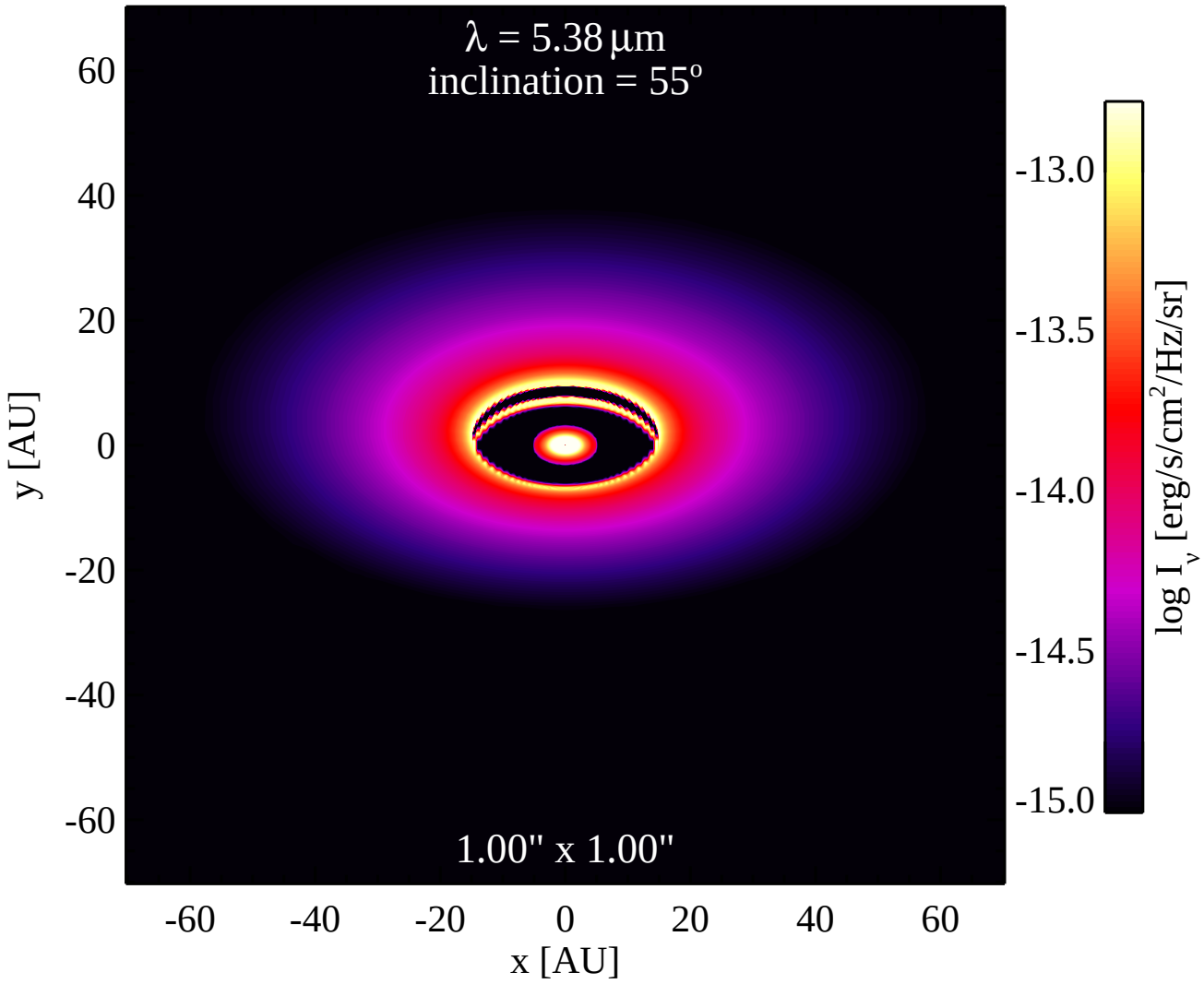

λ = 1.99 μm
inclination = 55°
2.94" x 2.94"
200
100
0
-100
-200
y [AU]
-200
-100
0
100
200
x [AU]
-12.5
-13.0
-13.5
-14.0
-14.5
-15.0
-15.5
log I_ν [erg/s/cm²/Hz/sr]

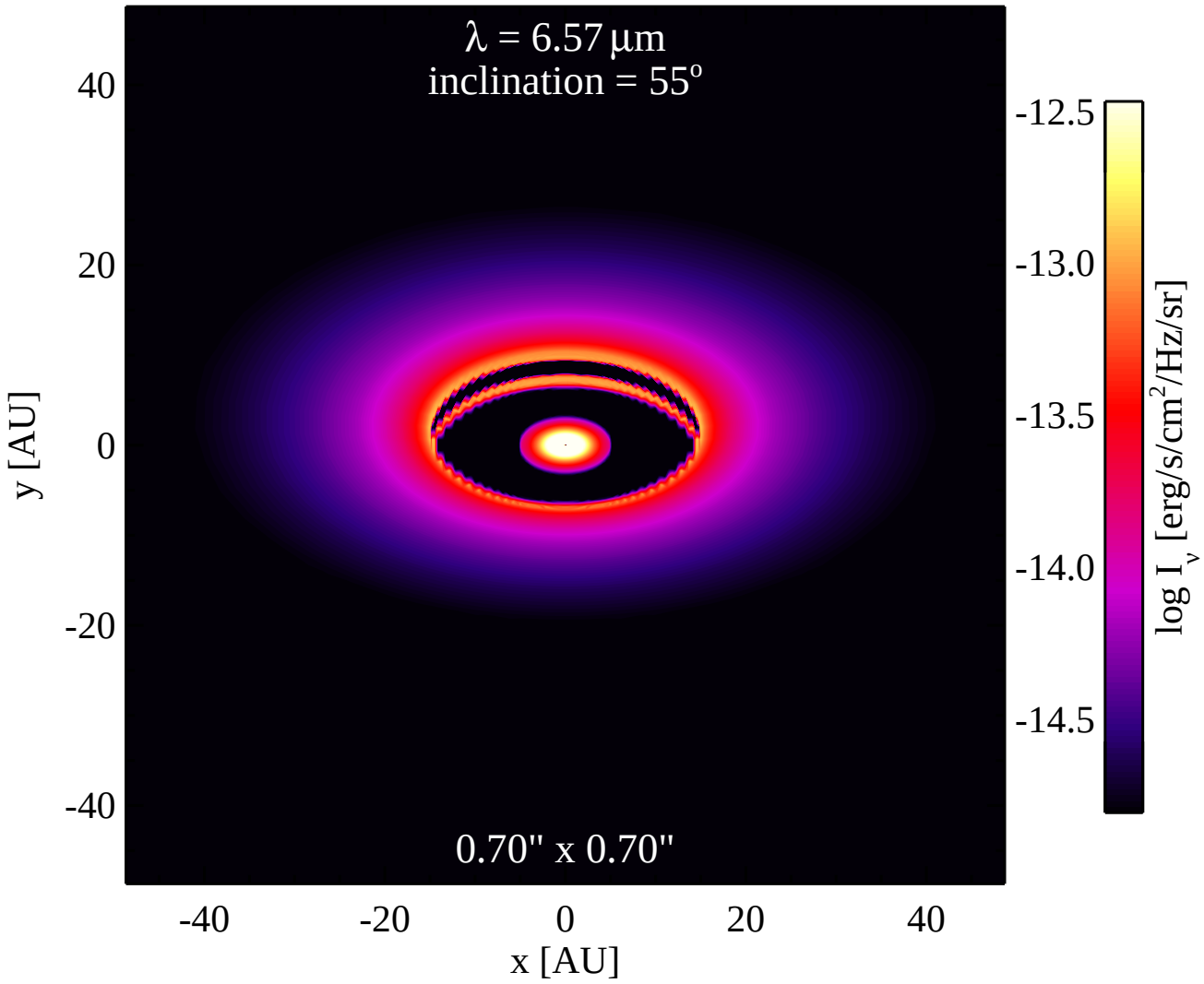

λ = 2.43 μm
inclination = 55°
2.64" x 2.64"
100
0
-100
y [AU]
-100
0
100
x [AU]
-12.5
-13.0
-13.5
-14.0
-14.5
-15.0
-15.5
log I_ν [erg/s/cm²/Hz/sr]

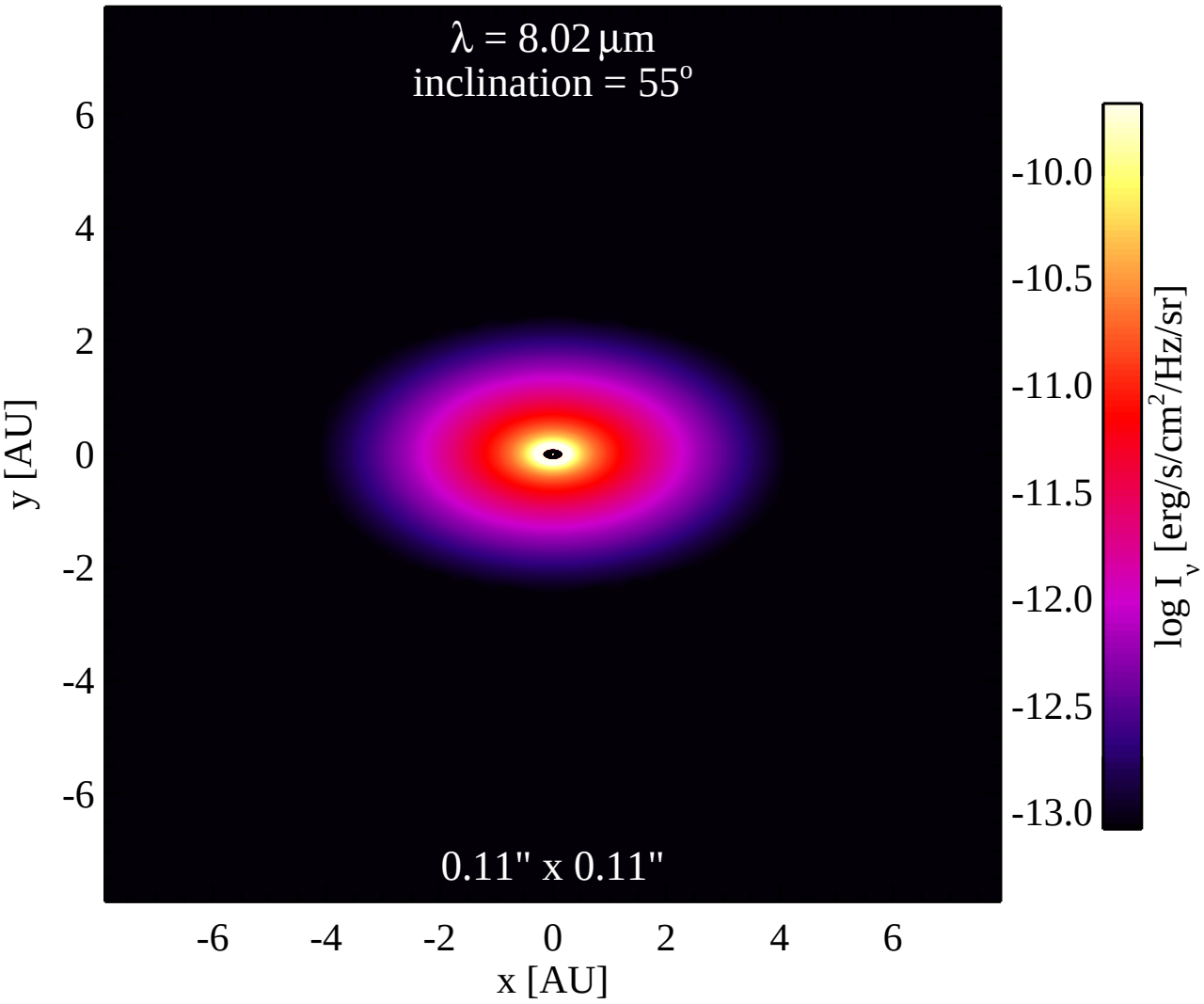

λ = 2.96 μm
inclination = 55°
2.23" x 2.23"
150
100
50
0
-50
-100
-150
y [AU]
-150
-100
-50
0
50
100
150
x [AU]
-12.5
-13.0
-13.5
-14.0
-14.5
-15.0
-15.5
log I_ν [erg/s/cm²/Hz/sr]

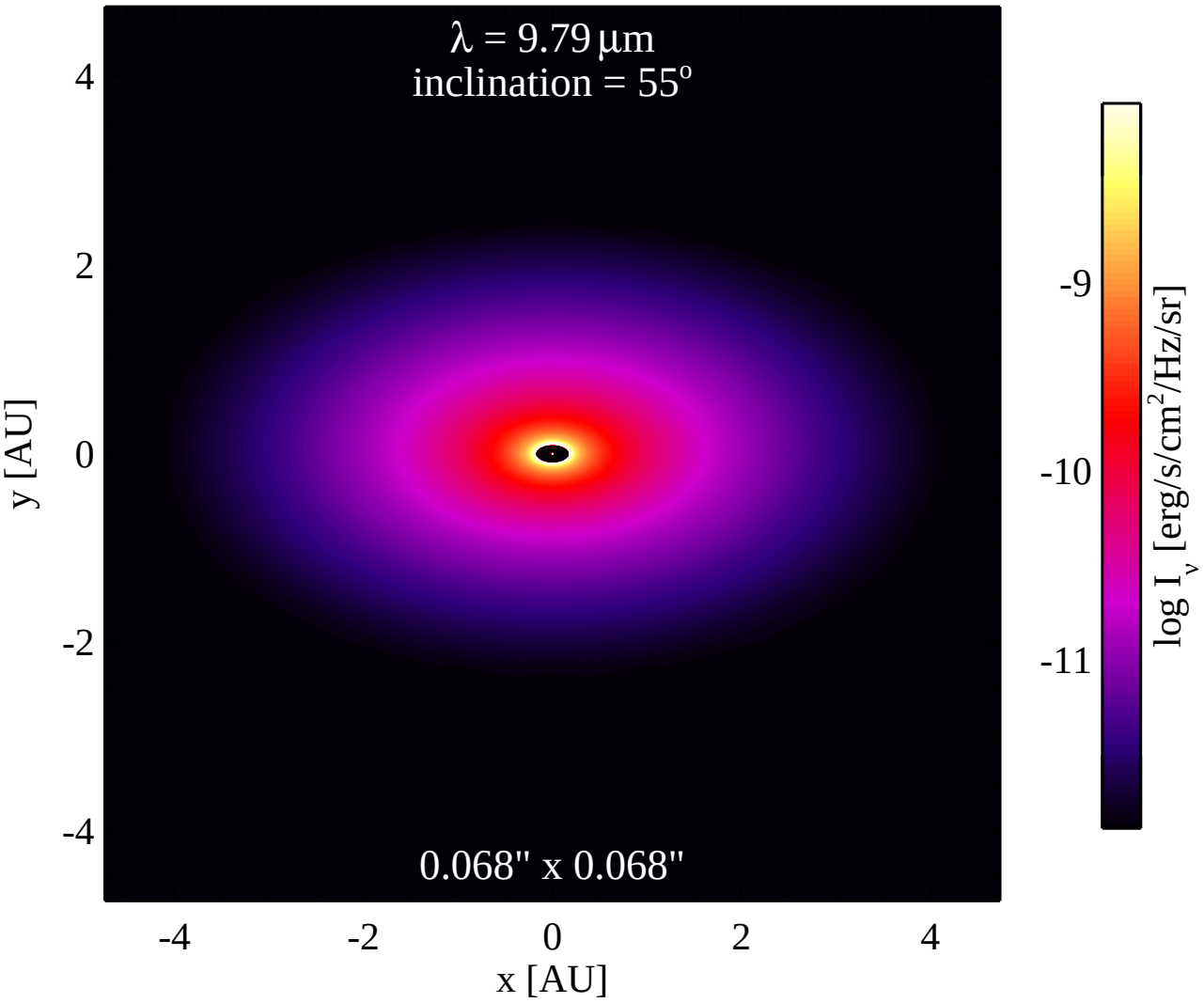

λ = 3.61 μm
inclination = 55°
1.77" x 1.77"
100
50
0
-50
-100
y [AU]
-100
-50
0
50
100
x [AU]
-13.0
-13.5
-14.0
-14.5
-15.0
log I_ν [erg/s/cm²/Hz/sr]

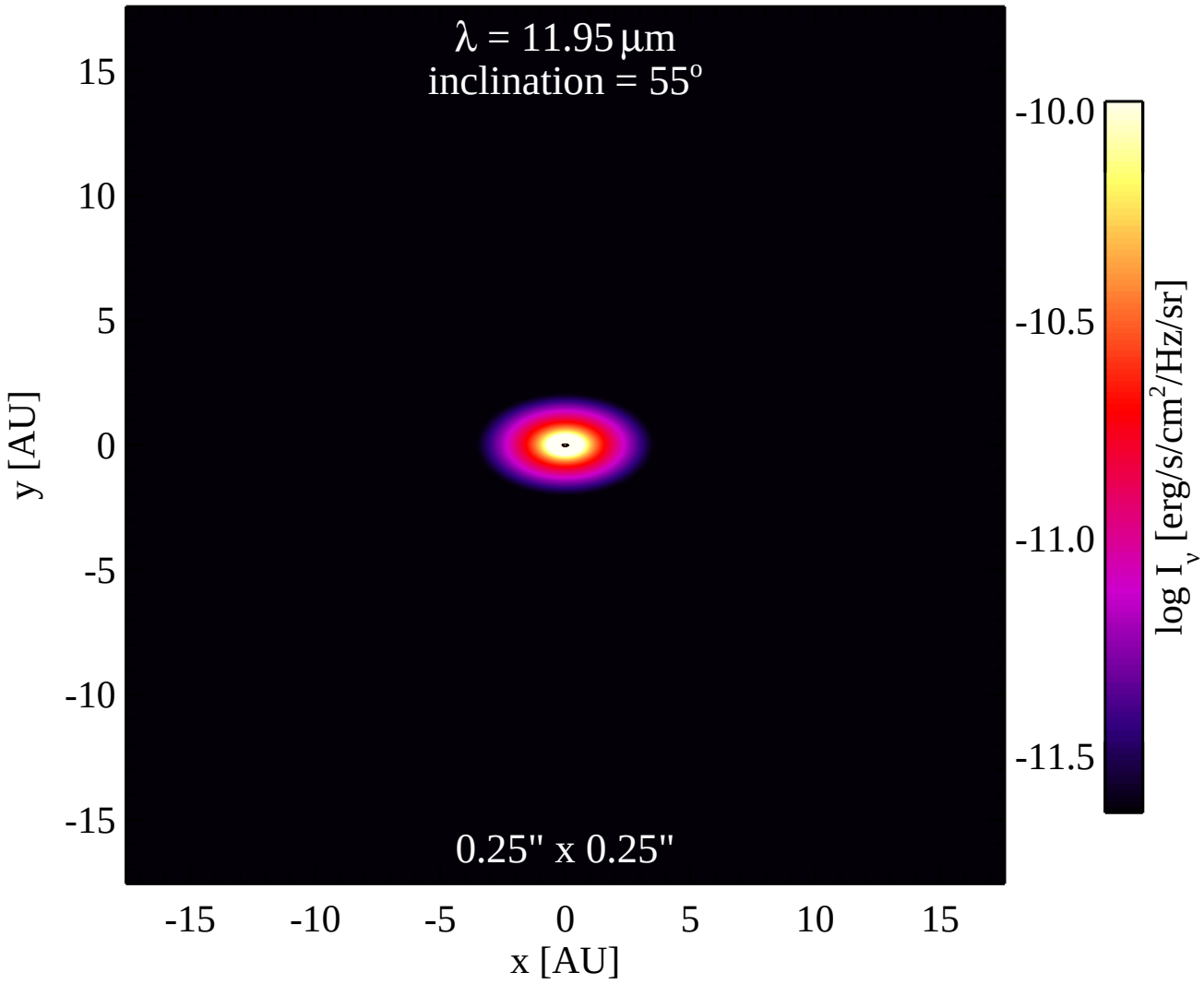

λ = 4.41 μm
inclination = 55°
1.33" x 1.33"
50
0
-50
y [AU]
-50
0
50
x [AU]
-13.0
-13.5
-14.0
-14.5
-15.0
log I_ν [erg/s/cm²/Hz/sr]

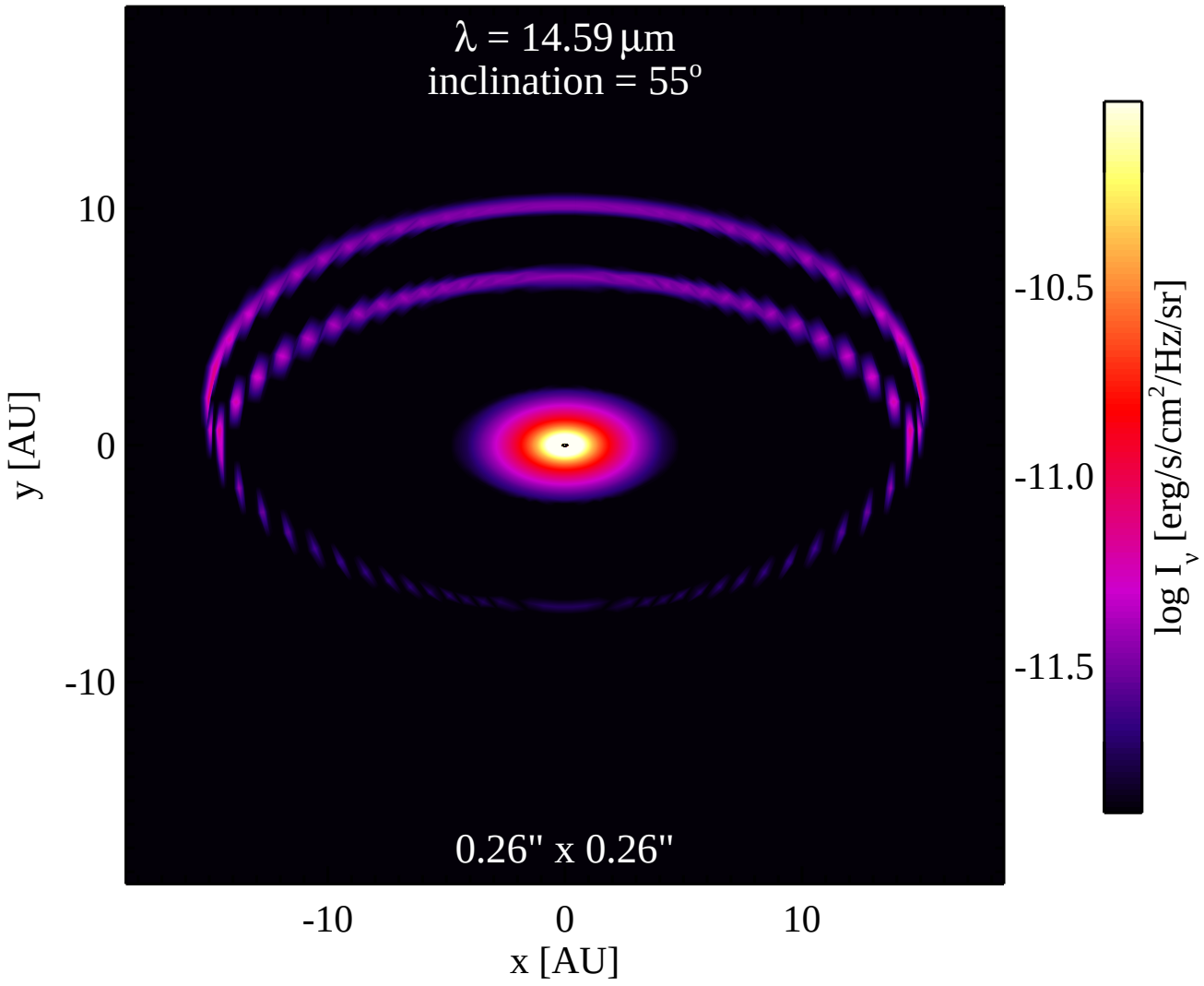

λ = 5.38 μm
inclination = 55°
1.00" x 1.00"
60
40
20
0
-20
-40
-60
y [AU]
-60
-40
-20
0
20
40
60
x [AU]
-13.0
-13.5
-14.0
-14.5
-15.0
log I_ν [erg/s/cm²/Hz/sr]

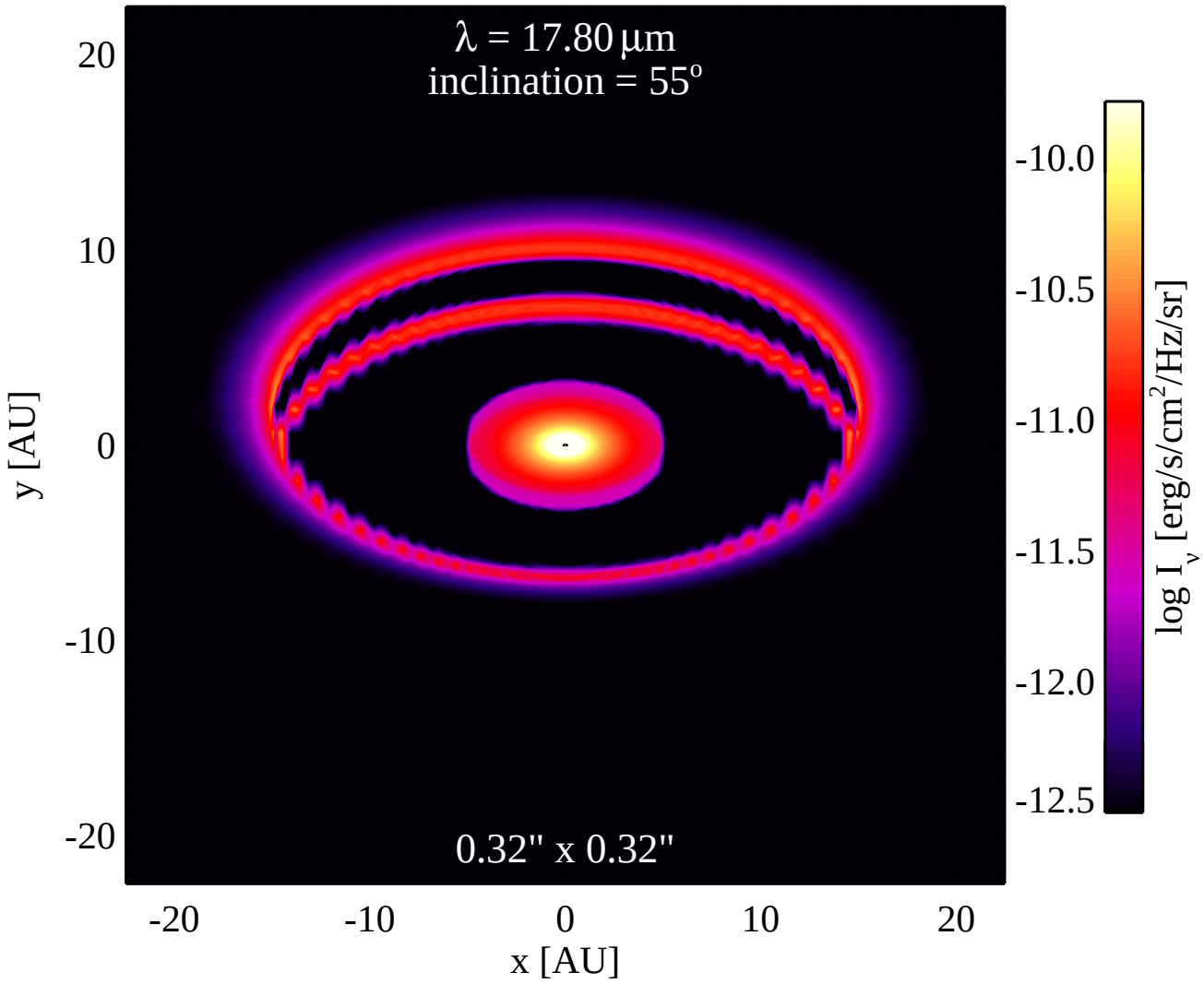

λ = 6.57 μm
inclination = 55°
0.70" x 0.70"
40
20
0
-20
-40
y [AU]
-40
-20
0
20
40
x [AU]
-12.5
-13.0
-13.5
-14.0
-14.5
log I_ν [erg/s/cm²/Hz/sr]

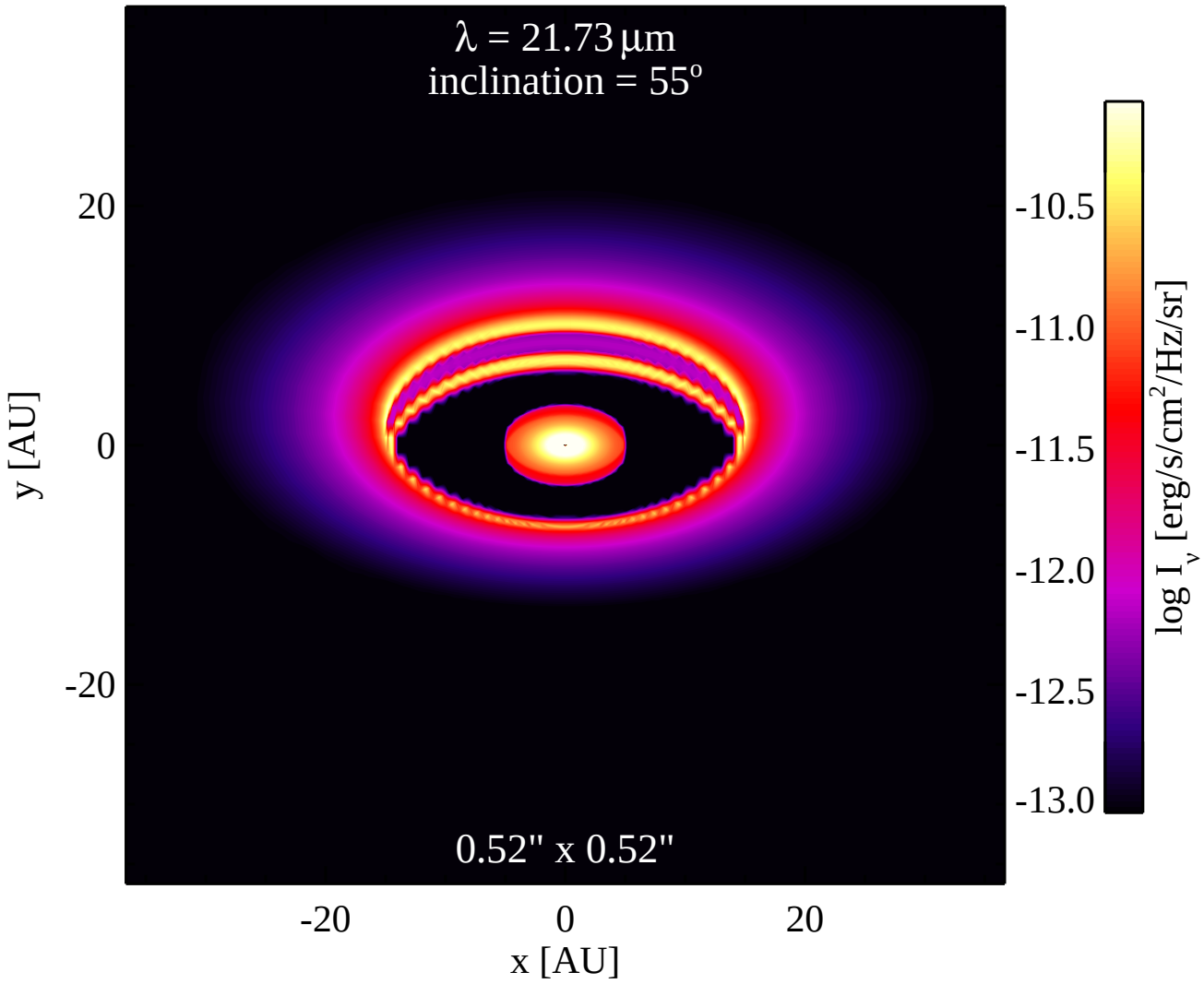

λ = 8.02 μm
inclination = 55°
0.11" x 0.11"
y [AU]
x [AU]
6
4
2
0
-2
-4
-6
-6
-4
-2
0
2
4
6
-10.0
-10.5
-11.0
-11.5
-12.0
-12.5
-13.0
log I_ν [erg/s/cm²/Hz/sr]

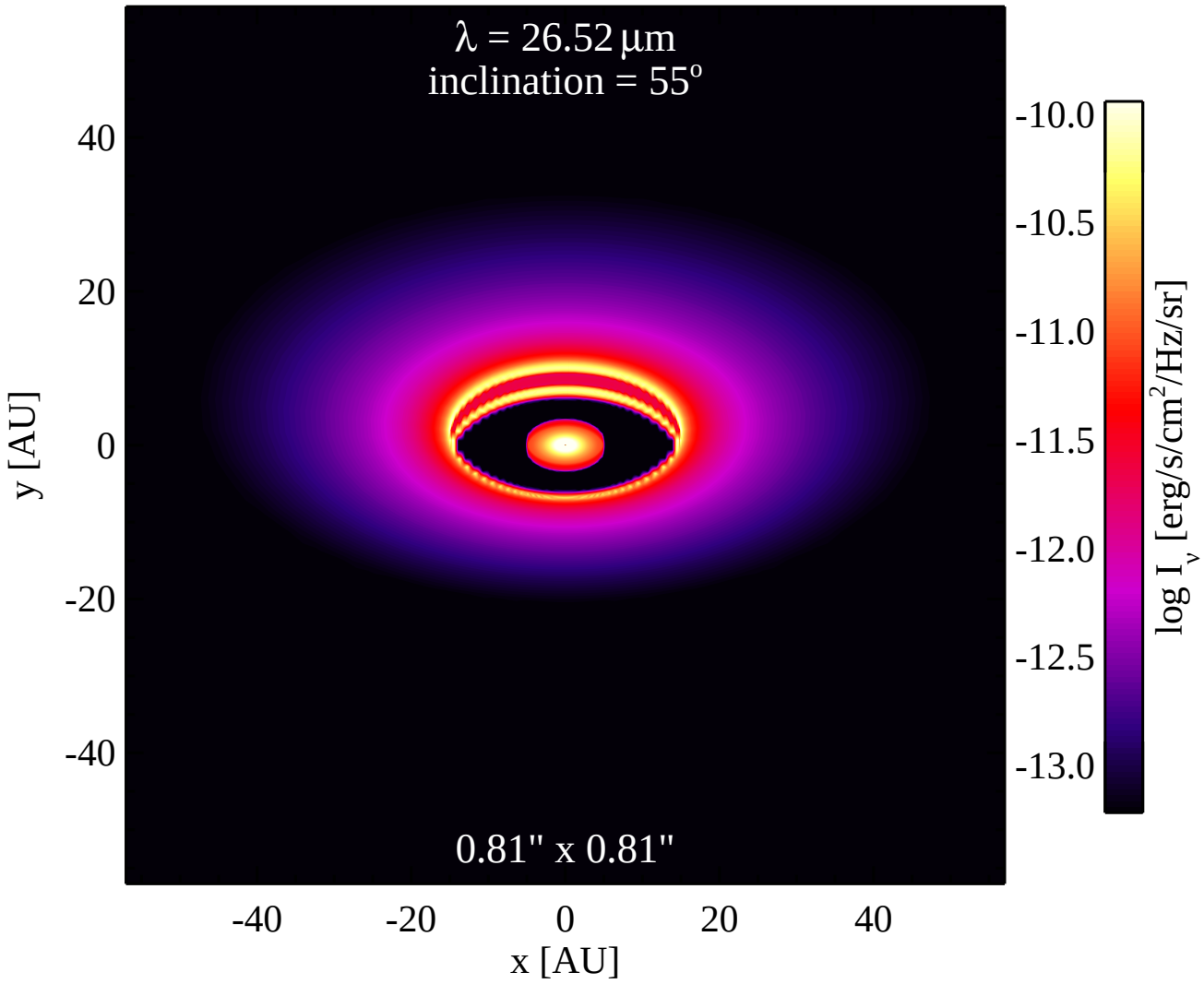

λ = 9.79 μm
inclination = 55°
0.068" x 0.068"
y [AU]
x [AU]
4
2
0
-2
-4
-4
-2
0
2
4
-9
-10
-11
log I_ν [erg/s/cm²/Hz/sr]

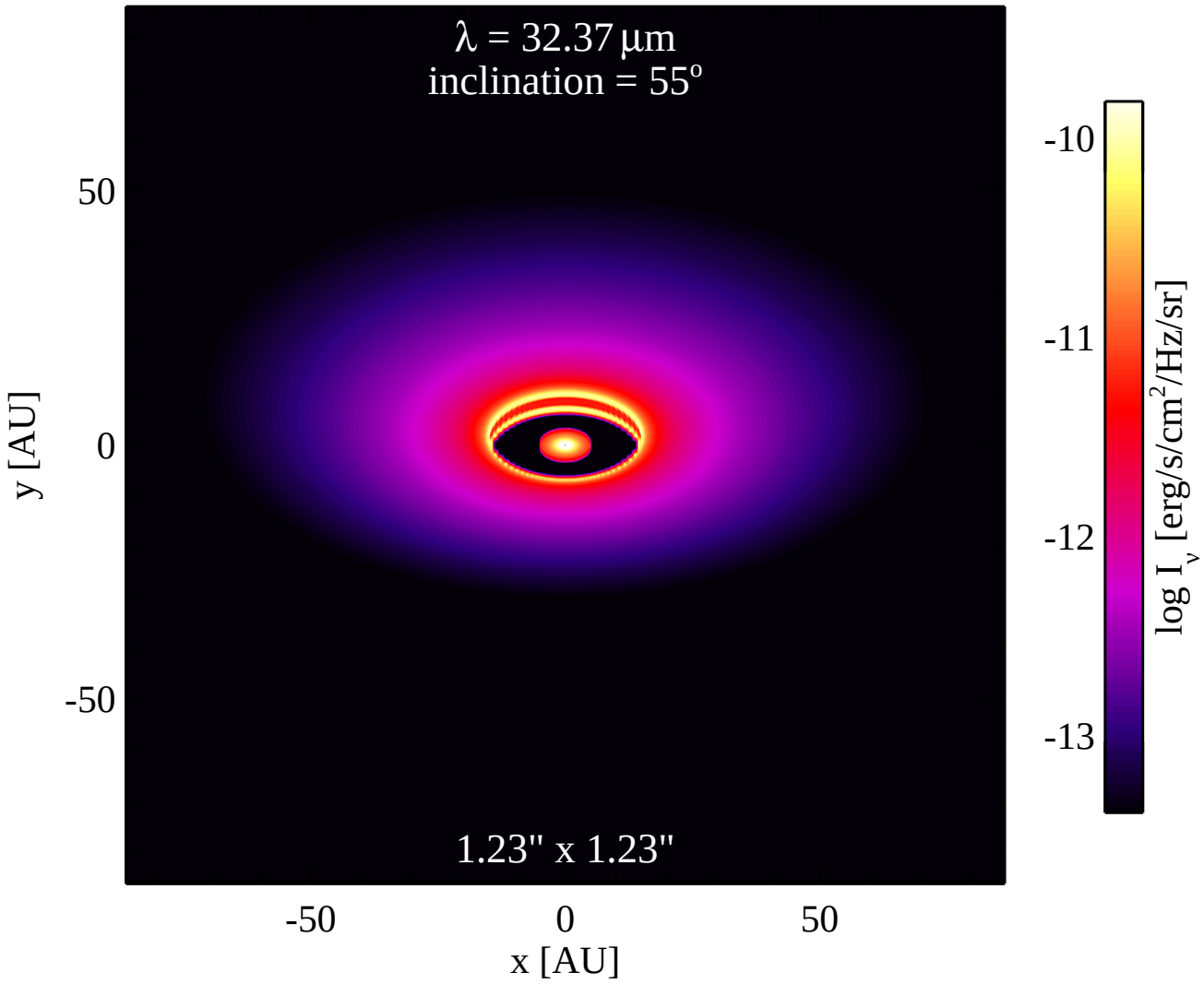

λ = 11.95 μm
inclination = 55°
0.25" x 0.25"
15
10
5
0
-5
-10
-15
y [AU]
-15
-10
-5
0
5
10
15
x [AU]
-10.0
-10.5
-11.0
-11.5
log I_ν [erg/s/cm²/Hz/sr]

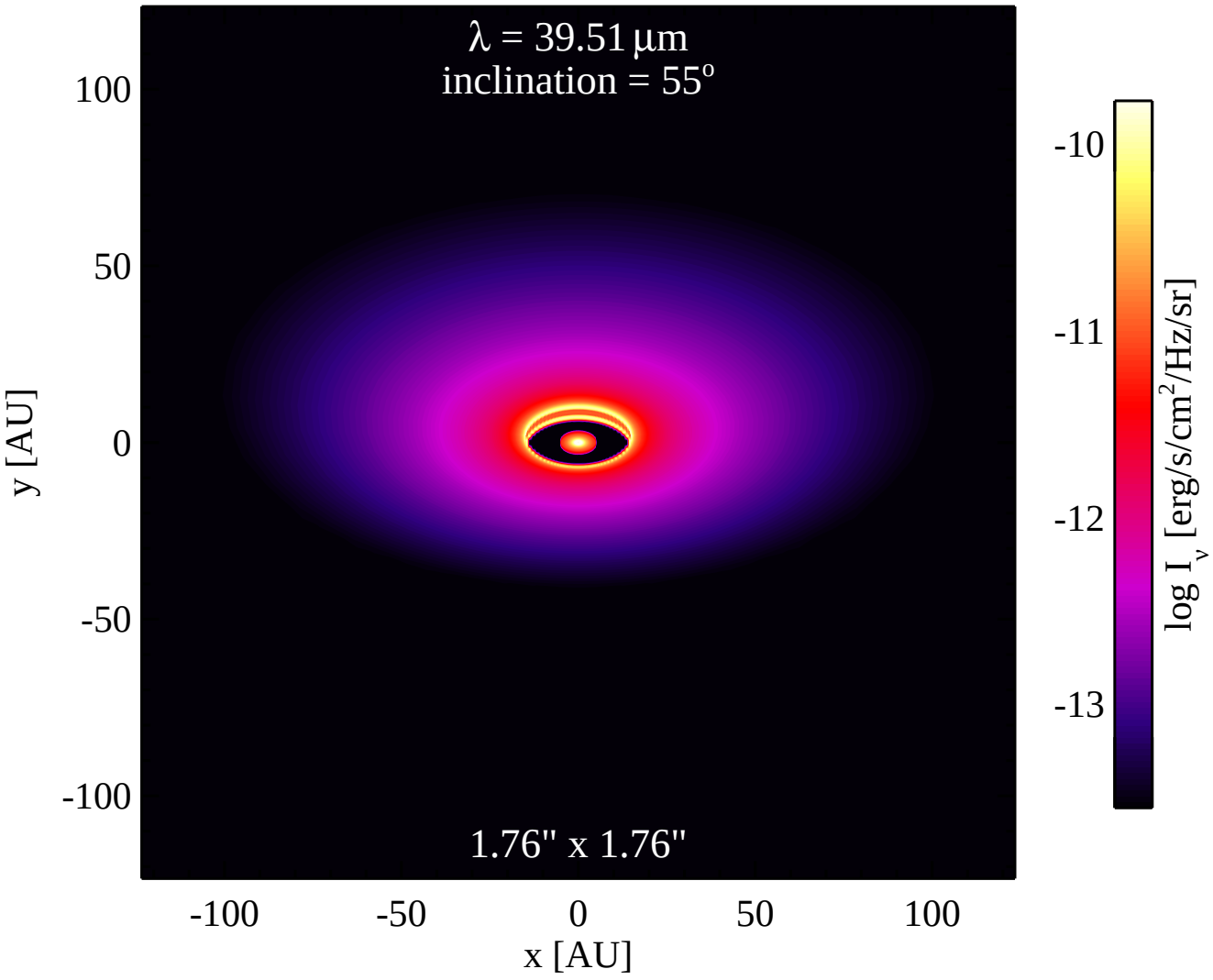

λ = 14.59 μm
inclination = 55°
0.26" x 0.26"
10
0
-10
y [AU]
-10
0
10
x [AU]
-10.5
-11.0
-11.5
log I_ν [erg/s/cm²/Hz/sr]

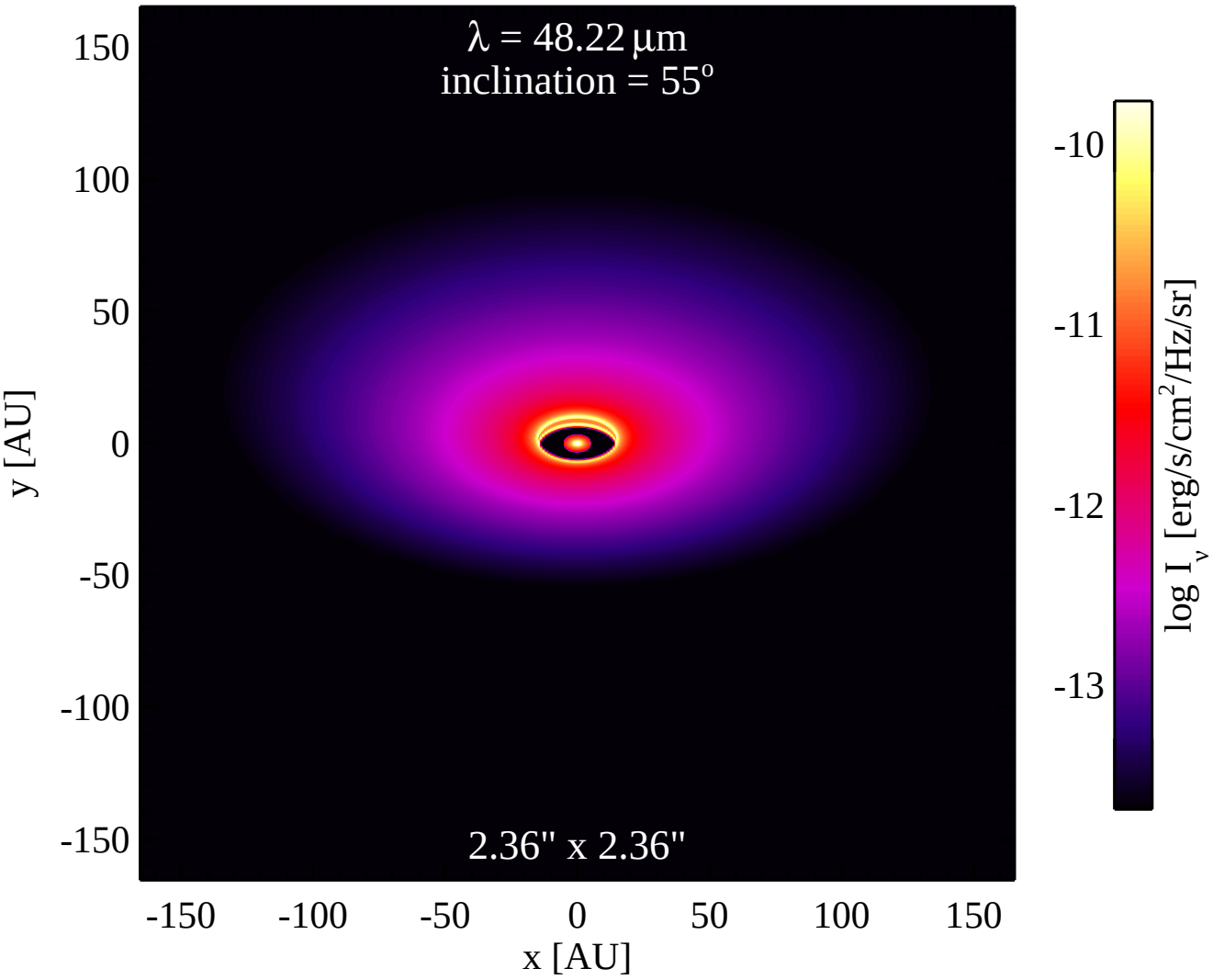

λ = 17.80 μm
inclination = 55°
0.32" x 0.32"
20
10
0
-10
-20
y [AU]
-20
-10
0
10
20
x [AU]
-10.0
-10.5
-11.0
-11.5
-12.0
-12.5
log I_ν [erg/s/cm²/Hz/sr]

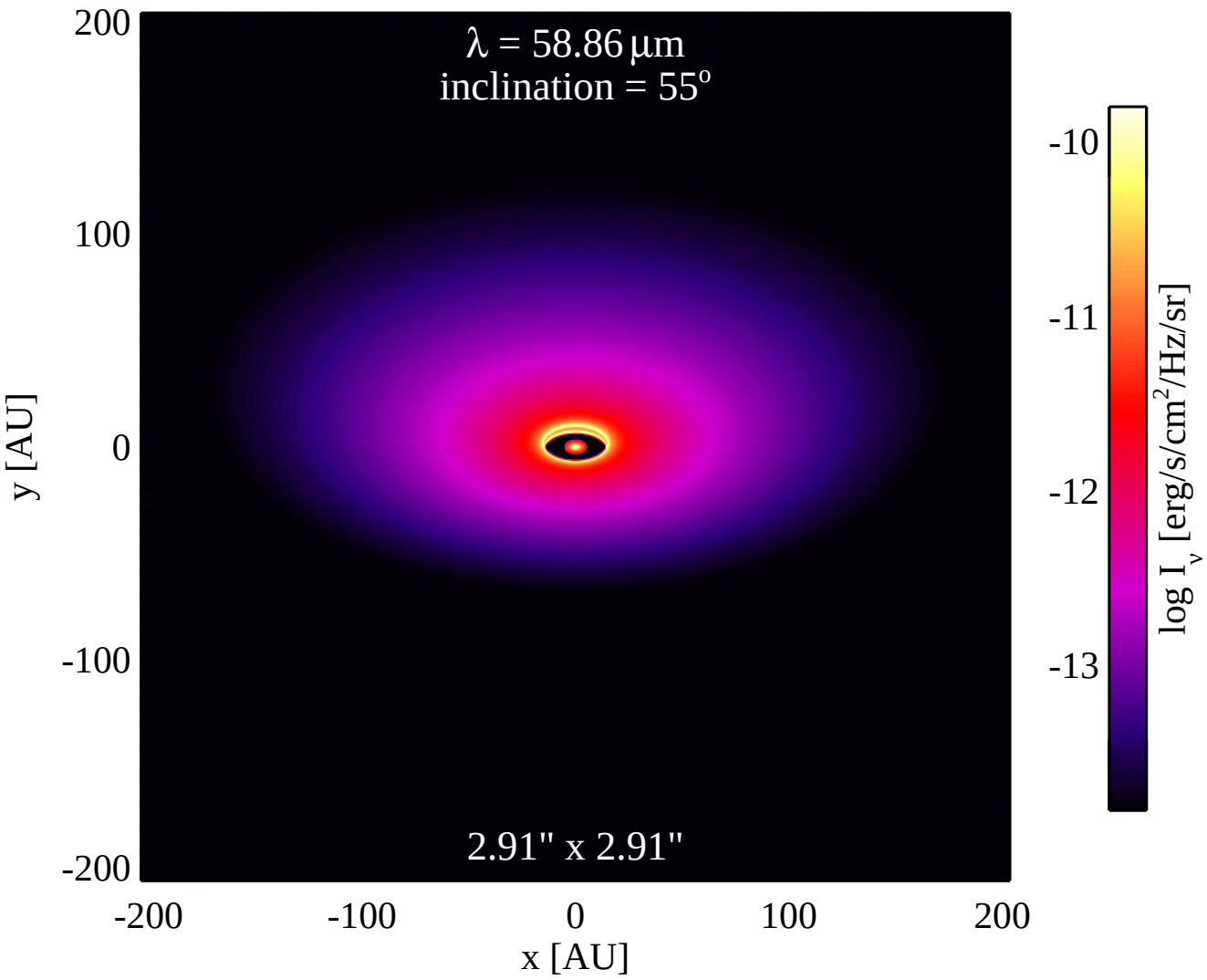

λ = 21.73 μm
inclination = 55°
0.52" x 0.52"
20
0
-20
y [AU]
-20
0
20
x [AU]
-10.5
-11.0
-11.5
-12.0
-12.5
-13.0
log I_ν [erg/s/cm²/Hz/sr]

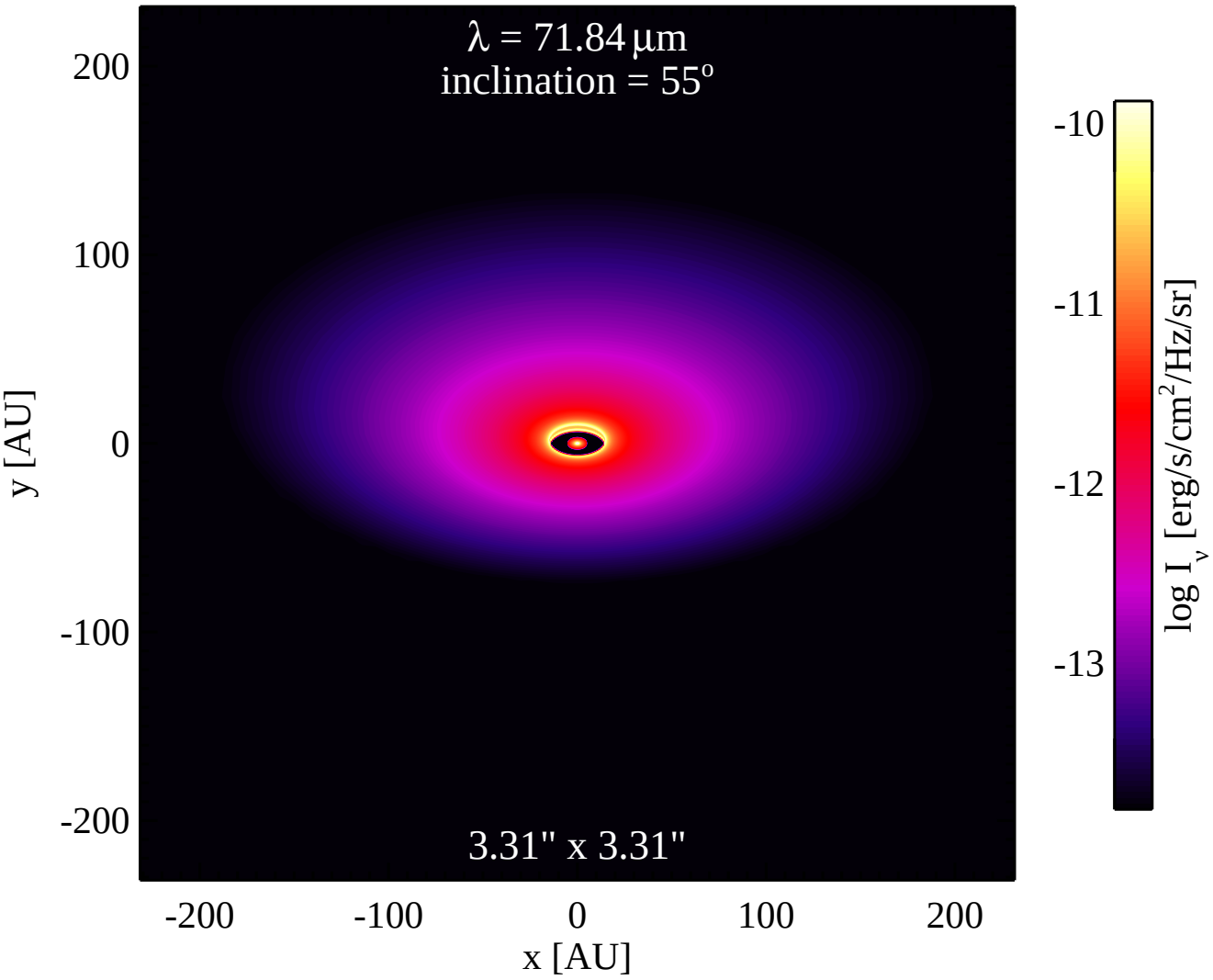

λ = 26.52 μm
inclination = 55°
0.81" x 0.81"
40
20
0
-20
-40
y [AU]
-40
-20
0
20
40
x [AU]
-10.0
-10.5
-11.0
-11.5
-12.0
-12.5
-13.0
log I_ν [erg/s/cm²/Hz/sr]

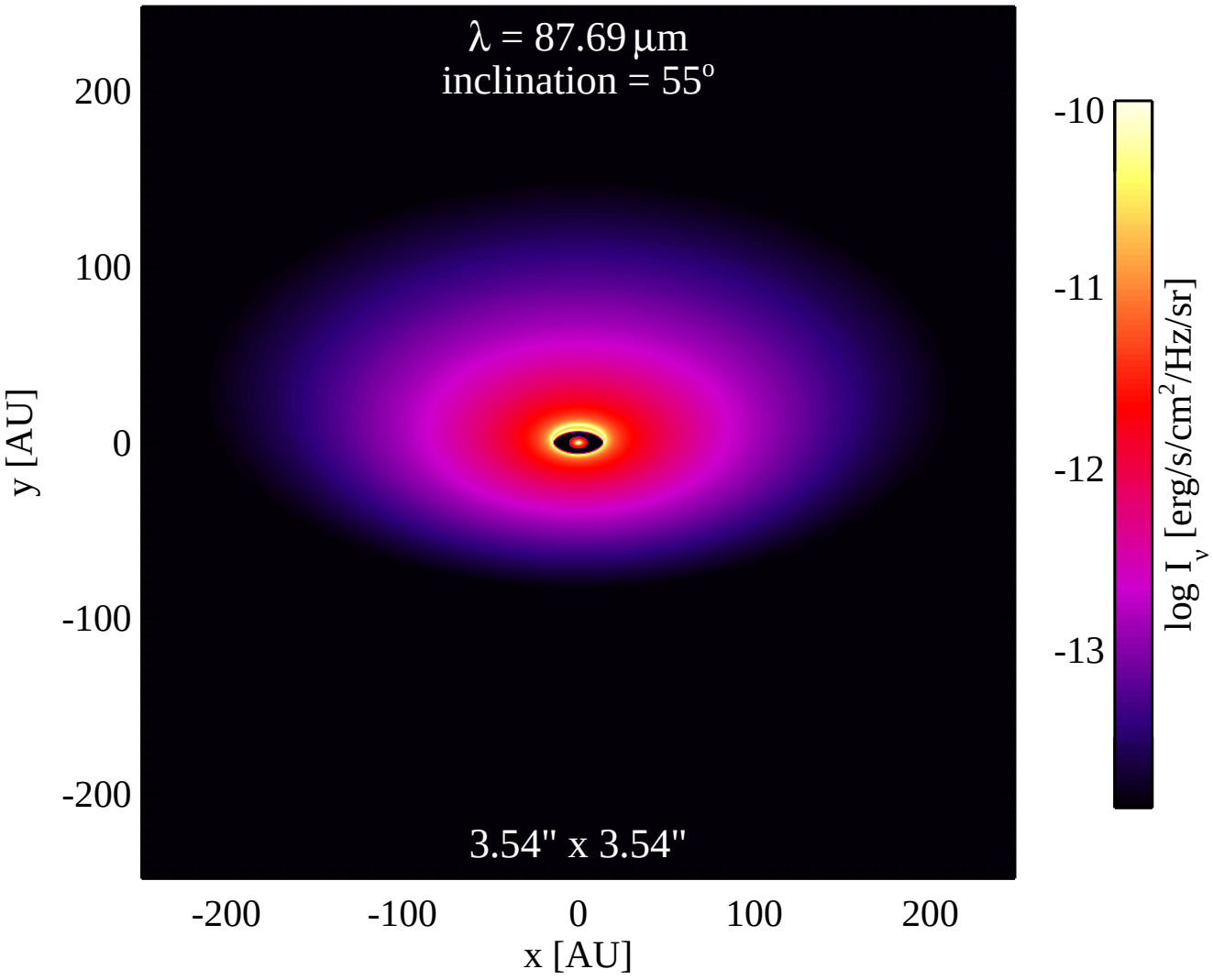

λ = 32.37 μm
inclination = 55°
1.23" x 1.23"
50
0
-50
y [AU]
-50
0
50
x [AU]
-10
-11
-12
-13
log I_ν [erg/s/cm²/Hz/sr]

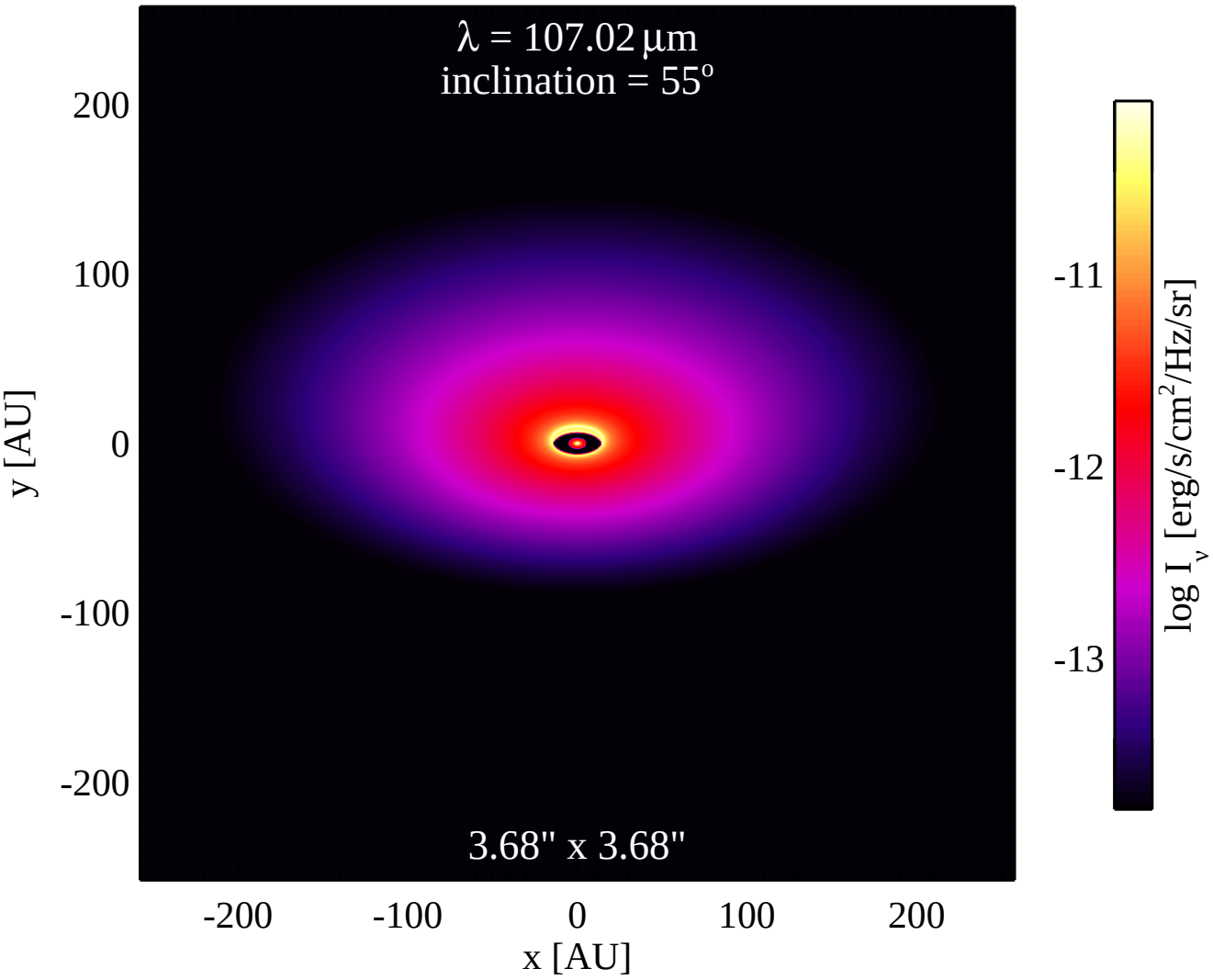

λ = 39.51 μm
inclination = 55°
1.76" x 1.76"
100
50
0
-50
-100
y [AU]
-100
-50
0
50
100
x [AU]
-10
-11
-12
-13
log I_ν [erg/s/cm²/Hz/sr]

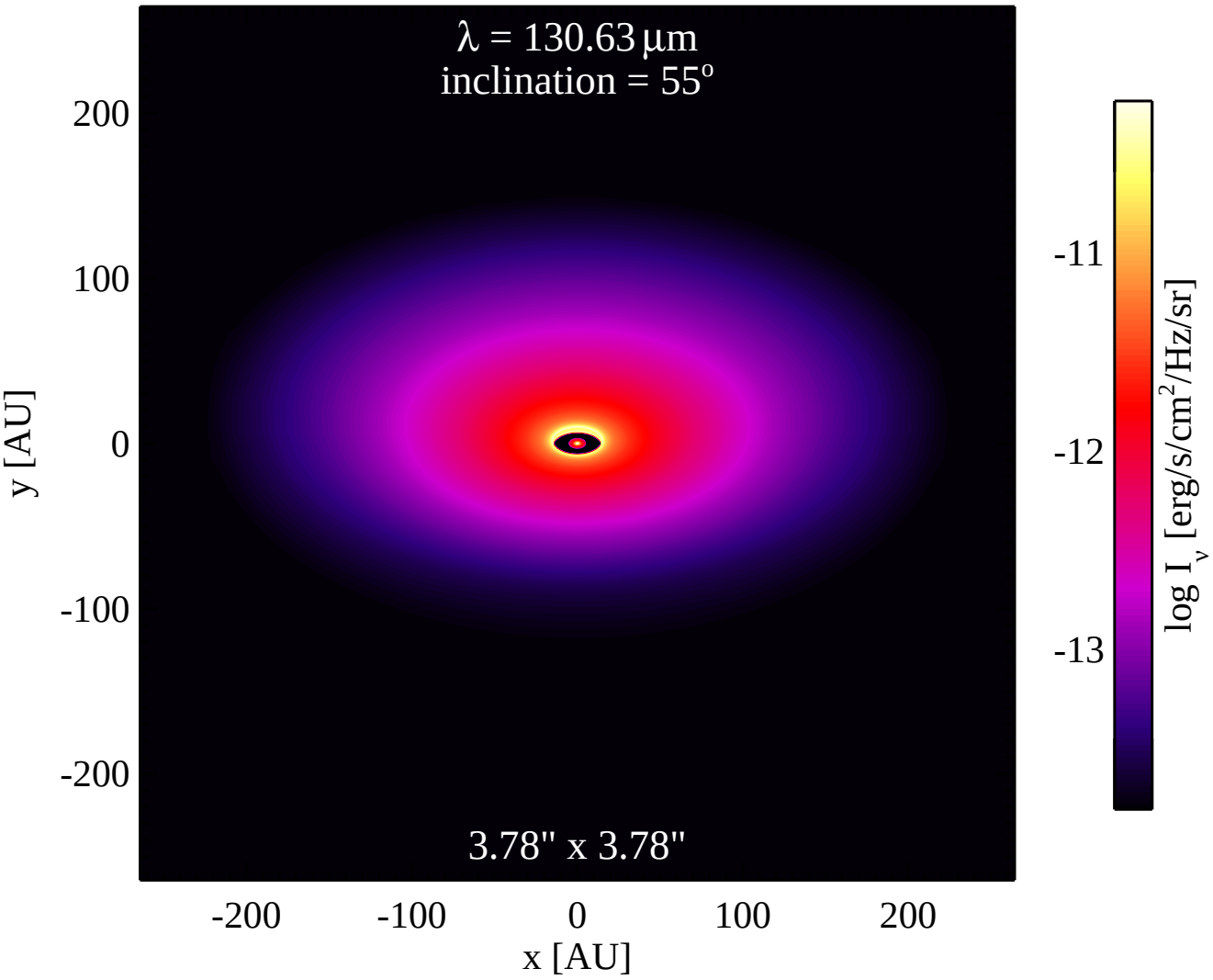

λ = 48.22 μm
inclination = 55°
2.36" x 2.36"
150
100
50
0
-50
-100
-150
y [AU]
-150
-100
-50
0
50
100
150
x [AU]
-10
-11
-12
-13
log I_ν [erg/s/cm²/Hz/sr]

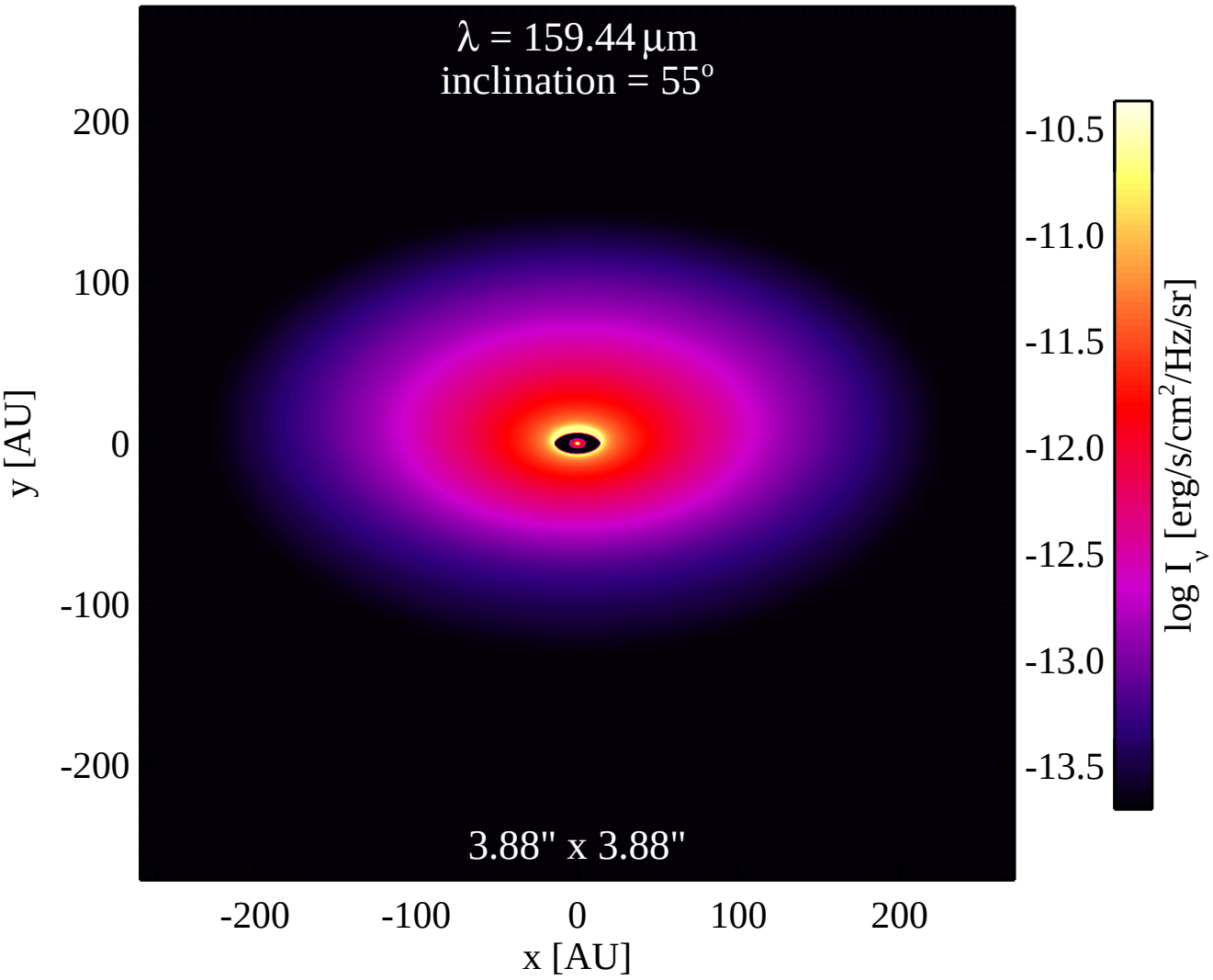

λ = 58.86 μm
inclination = 55°
2.91" x 2.91"
200
100
0
-100
-200
y [AU]
-200
-100
0
100
200
x [AU]
-10
-11
-12
-13
log I_ν [erg/s/cm²/Hz/sr]

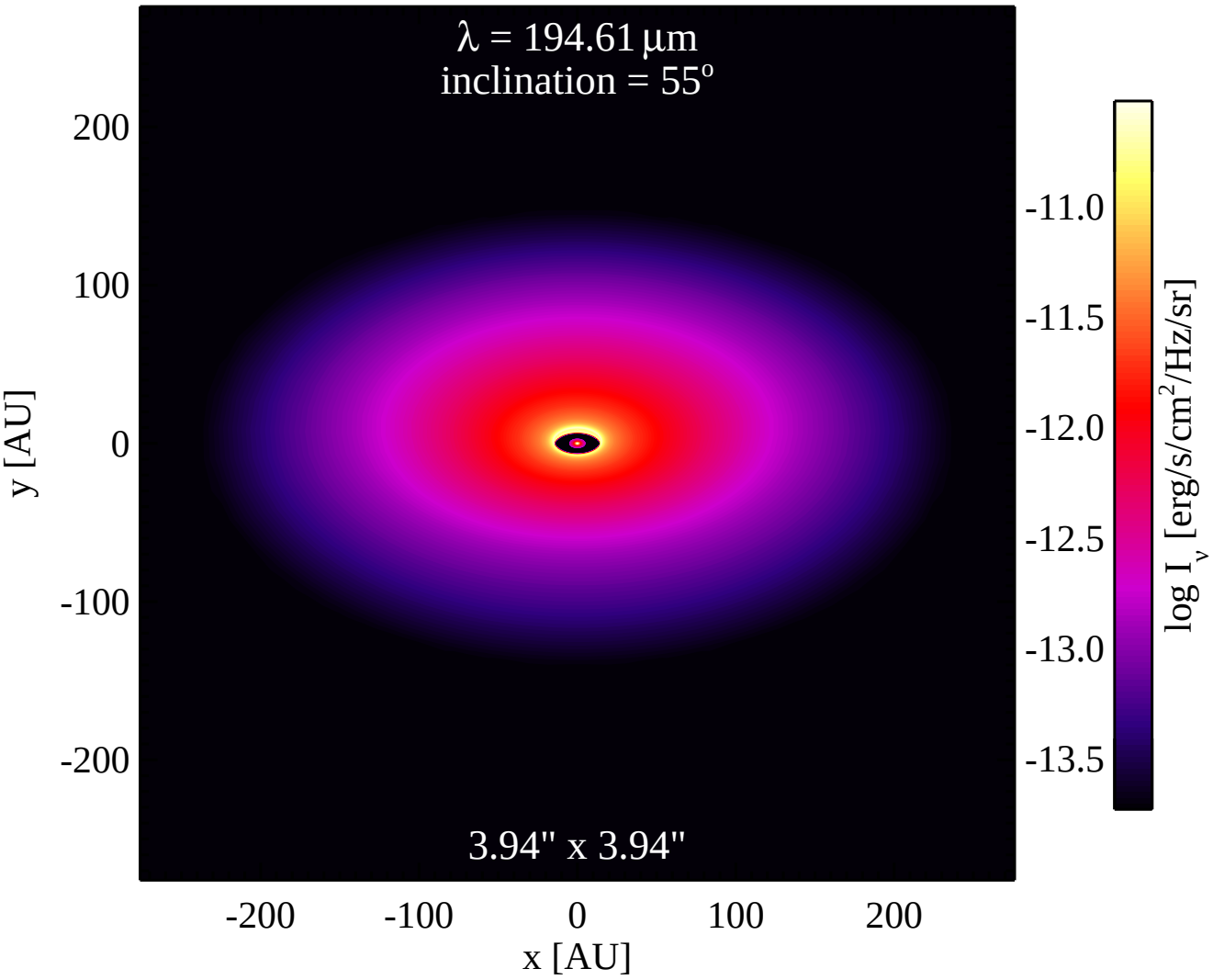

λ = 71.84 μm
inclination = 55°
3.31" x 3.31"
200
100
0
-100
-200
y [AU]
-200
-100
0
100
200
x [AU]
-10
-11
-12
-13
log I_ν [erg/s/cm²/Hz/sr]

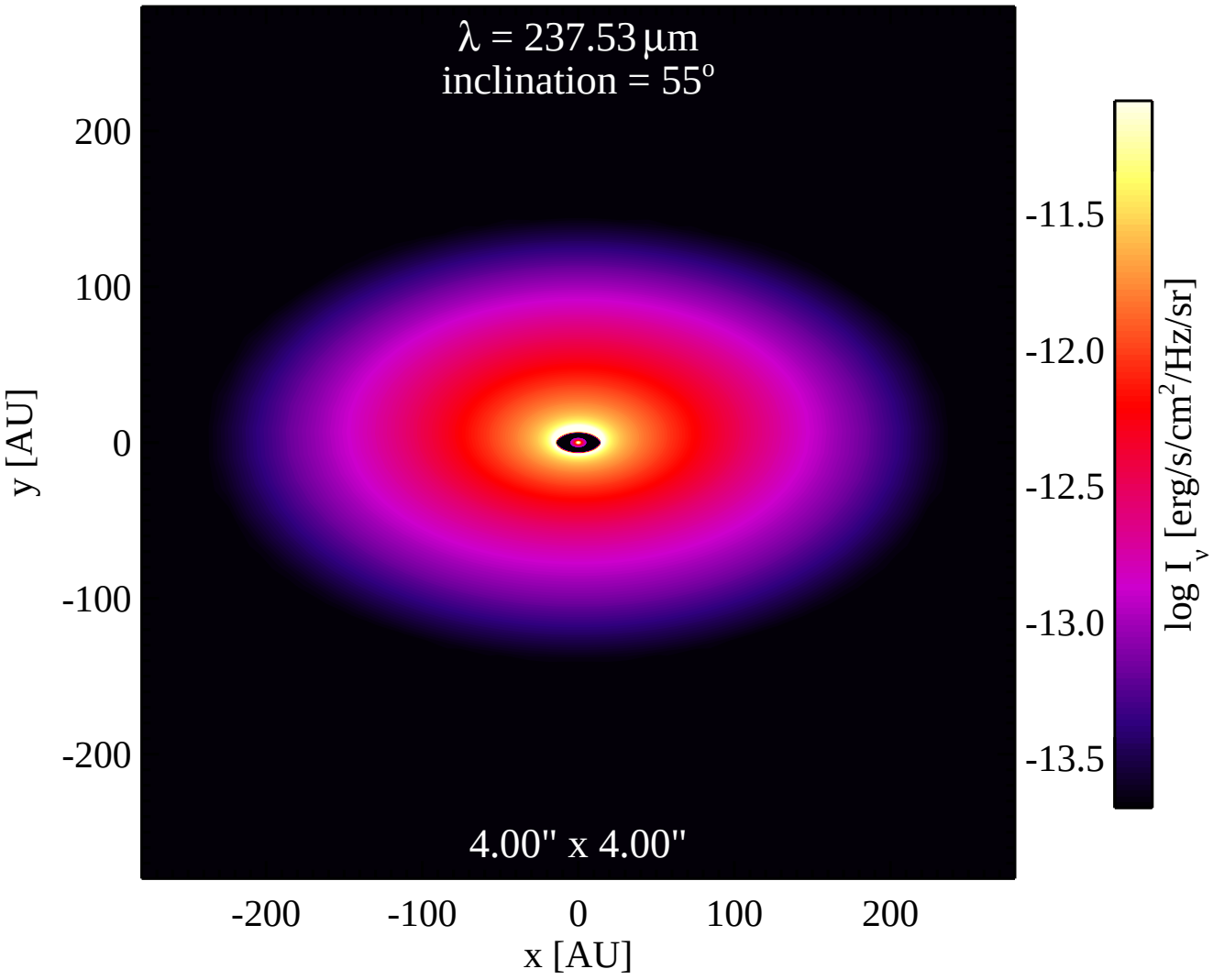

λ = 87.69 μm
inclination = 55°
3.54" x 3.54"
200
100
0
-100
-200
y [AU]
-200
-100
0
100
200
x [AU]
-10
-11
-12
-13
log I_ν [erg/s/cm²/Hz/sr]

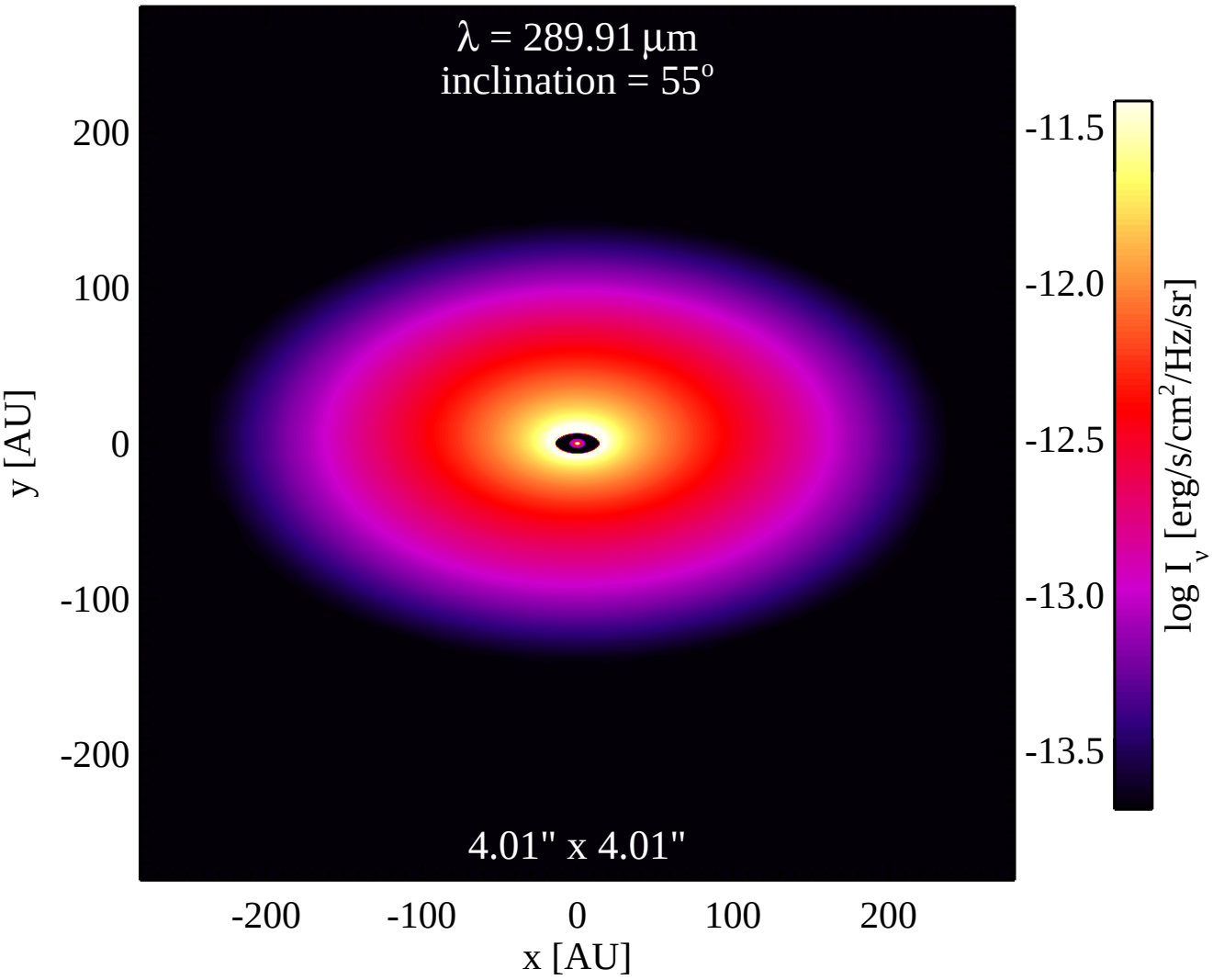

λ = 107.02 μm
inclination = 55°
3.68" x 3.68"
200
100
0
-100
-200
y [AU]
-200
-100
0
100
200
x [AU]
-11
-12
-13
log I_ν [erg/s/cm²/Hz/sr]

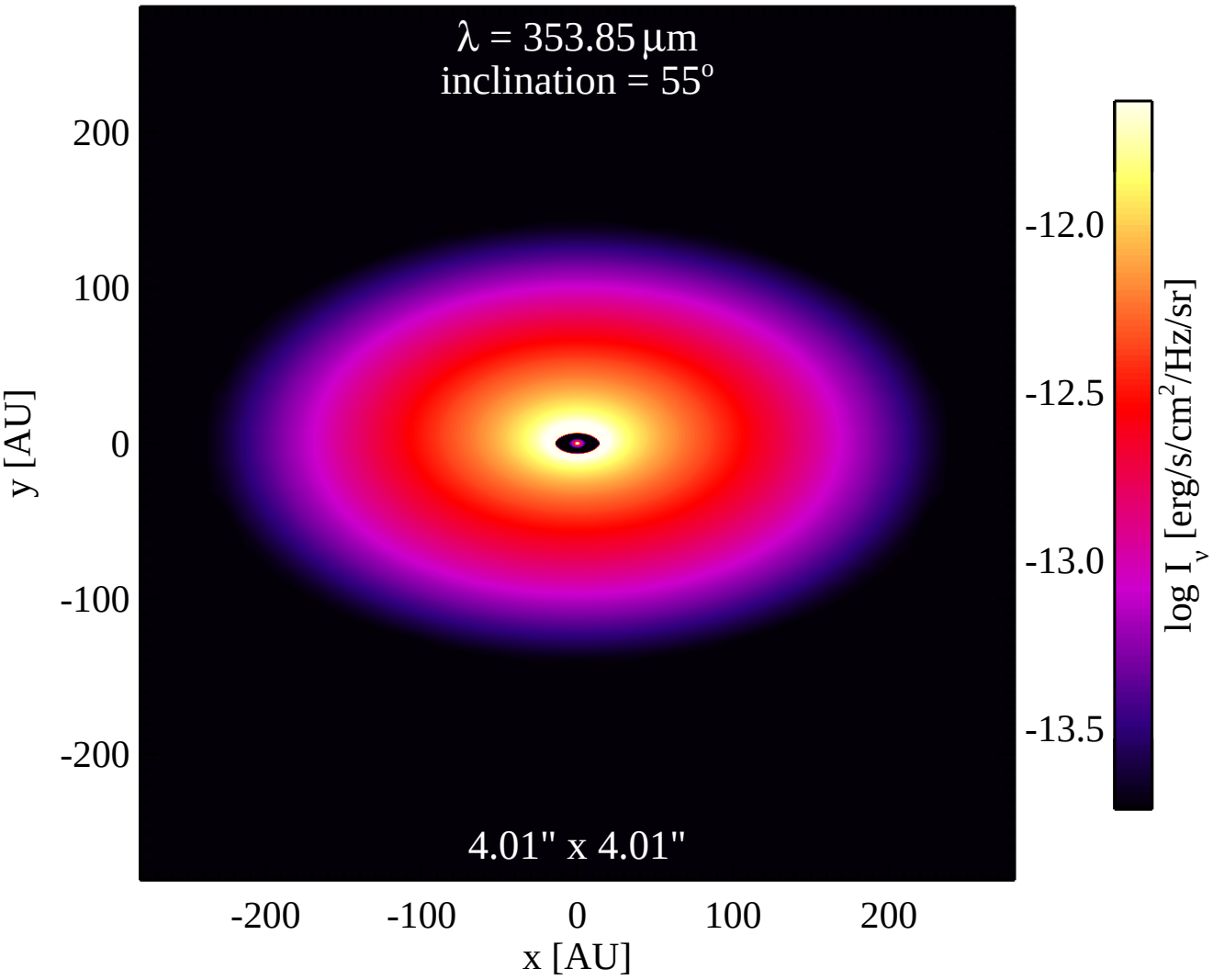

λ = 130.63 μm
inclination = 55°
3.78" x 3.78"
200
100
0
-100
-200
y [AU]
-200
-100
0
100
200
x [AU]
-11
-12
-13
log I_ν [erg/s/cm²/Hz/sr]

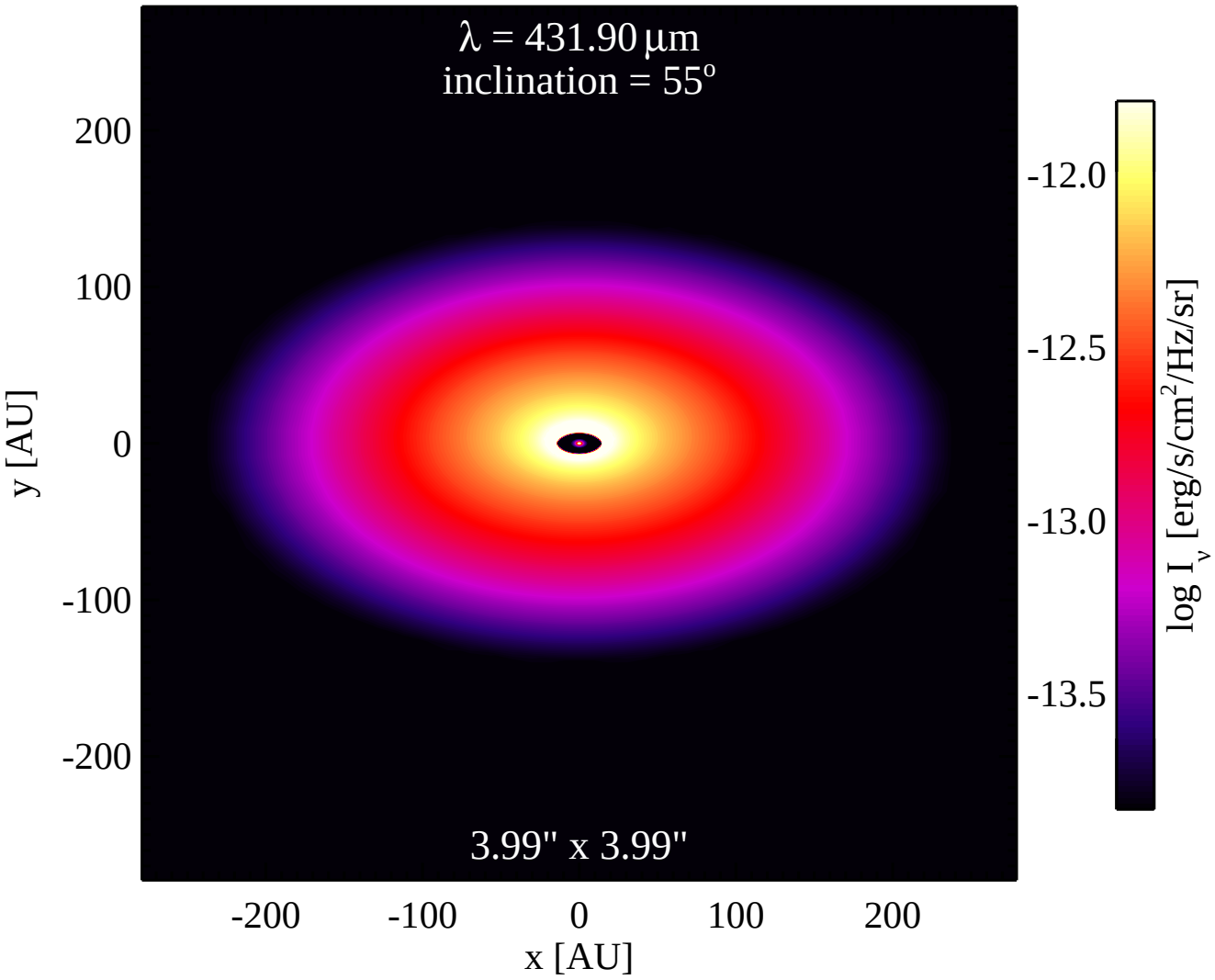

λ = 159.44 μm
inclination = 55°
3.88" x 3.88"
200
100
0
-100
-200
y [AU]
-200
-100
0
100
200
x [AU]
-10.5
-11.0
-11.5
-12.0
-12.5
-13.0
-13.5
log I_ν [erg/s/cm²/Hz/sr]

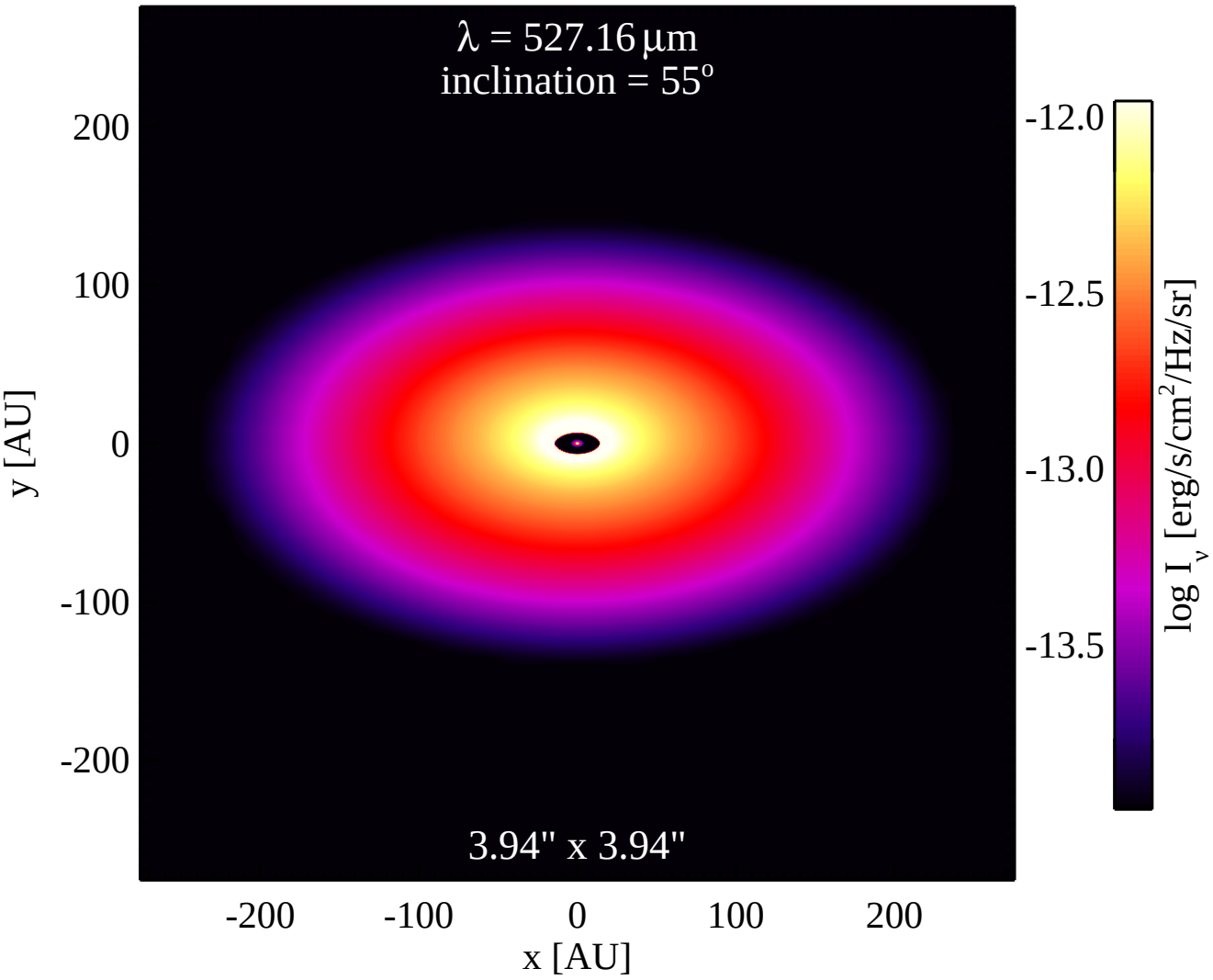

λ = 194.61 μm
inclination = 55°
3.94" x 3.94"
200
100
0
-100
-200
y [AU]
-200
-100
0
100
200
x [AU]
-11.0
-11.5
-12.0
-12.5
-13.0
-13.5
log I_ν [erg/s/cm²/Hz/sr]

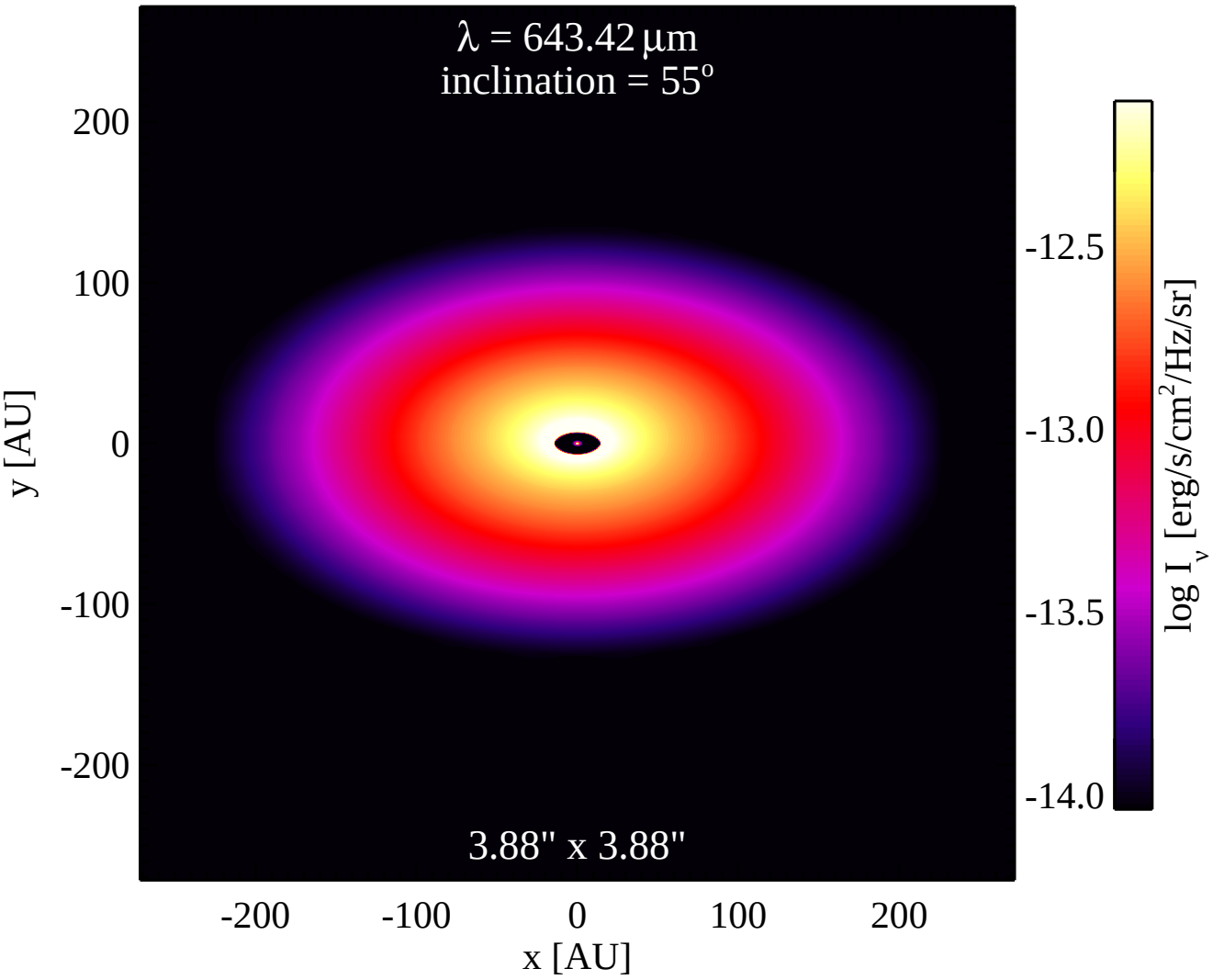

λ = 237.53 μm
inclination = 55°
4.00" x 4.00"
200
100
0
-100
-200
y [AU]
-200
-100
0
100
200
x [AU]
-11.5
-12.0
-12.5
-13.0
-13.5
log I_ν [erg/s/cm²/Hz/sr]

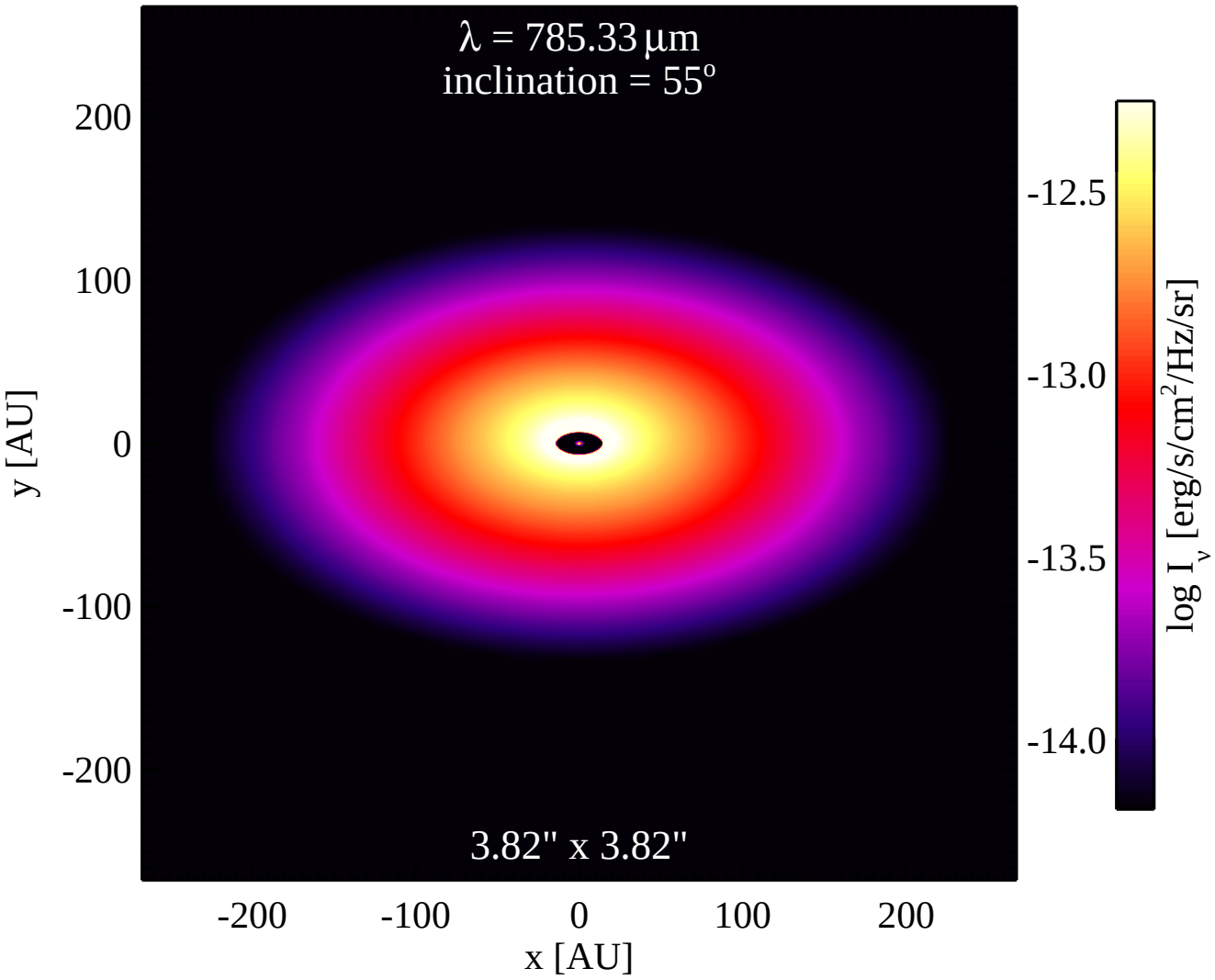

λ = 289.91 μm
inclination = 55°
4.01" x 4.01"
200
100
0
-100
-200
y [AU]
-200
-100
0
100
200
x [AU]
-11.5
-12.0
-12.5
-13.0
-13.5
log I_ν [erg/s/cm²/Hz/sr]

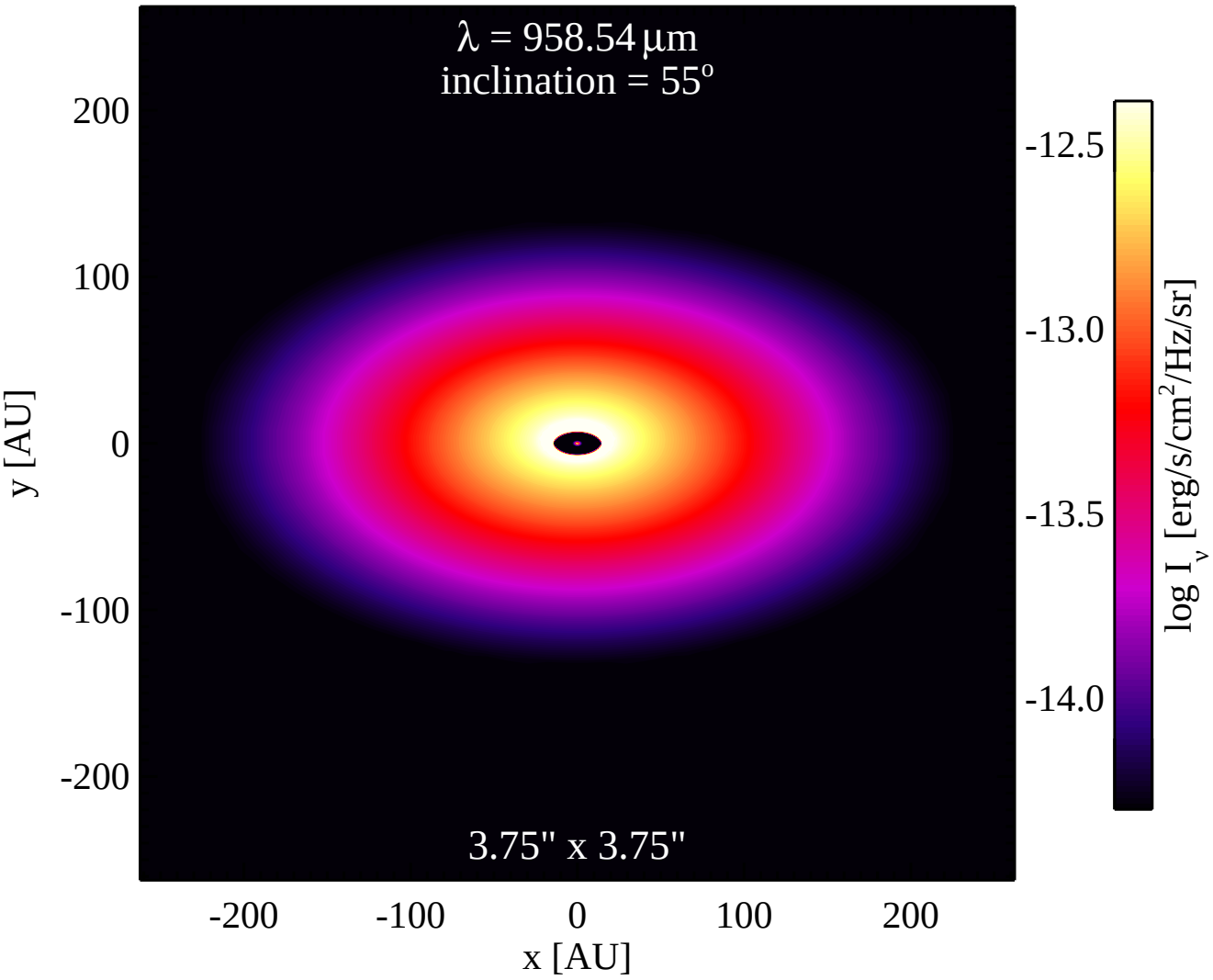

λ = 353.85 μm
inclination = 55°
4.01" x 4.01"
200
100
0
-100
-200
y [AU]
-200
-100
0
100
200
x [AU]
-12.0
-12.5
-13.0
-13.5
log I_ν [erg/s/cm²/Hz/sr]

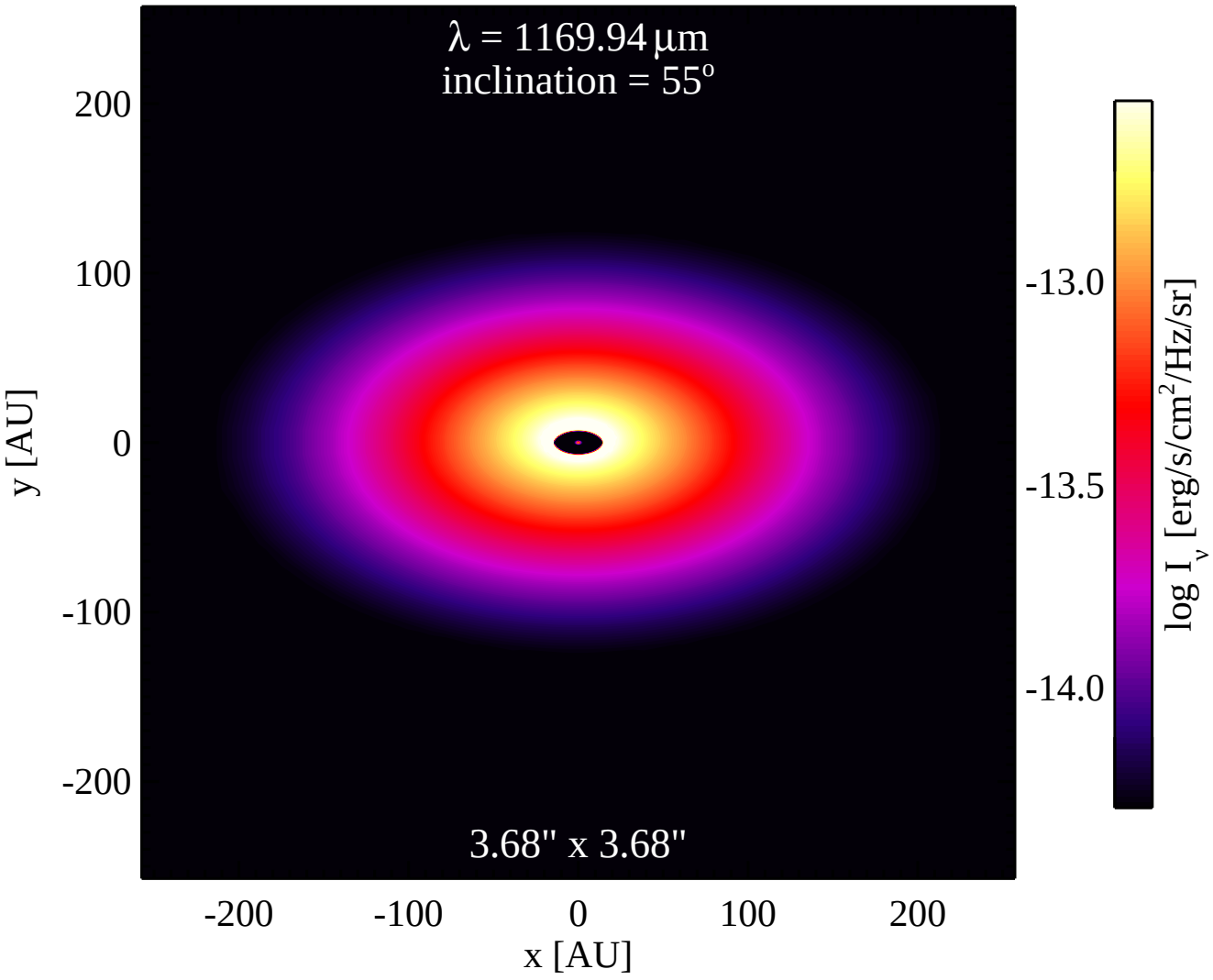

λ = 431.90 μm
inclination = 55°
3.99" x 3.99"
200
100
0
-100
-200
y [AU]
-200
-100
0
100
200
x [AU]
-12.0
-12.5
-13.0
-13.5
log I_ν [erg/s/cm²/Hz/sr]

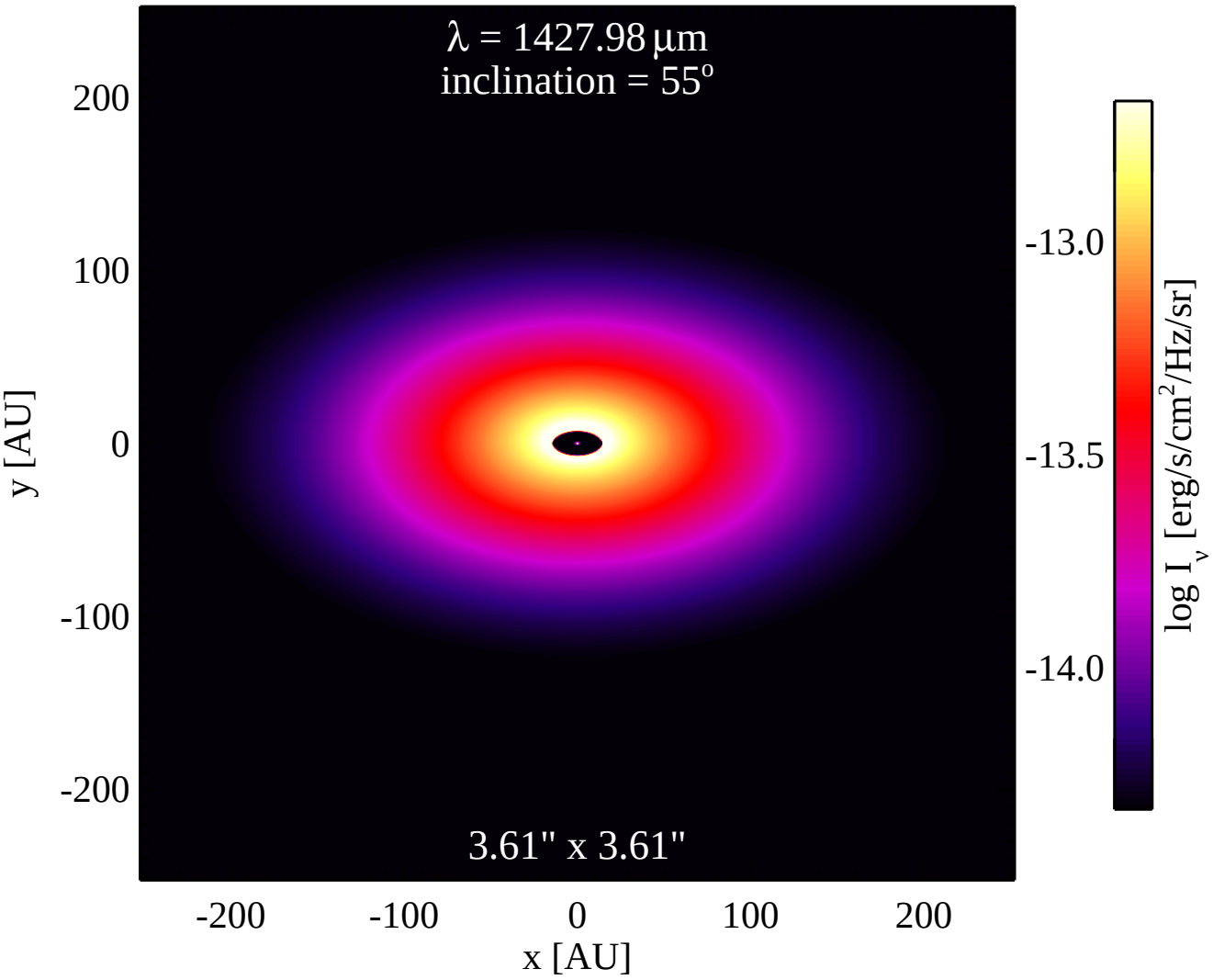

λ = 527.16 μm
inclination = 55°
3.94" x 3.94"
200
100
0
-100
-200
y [AU]
-200
-100
0
100
200
x [AU]
-12.0
-12.5
-13.0
-13.5
log I_ν [erg/s/cm²/Hz/sr]

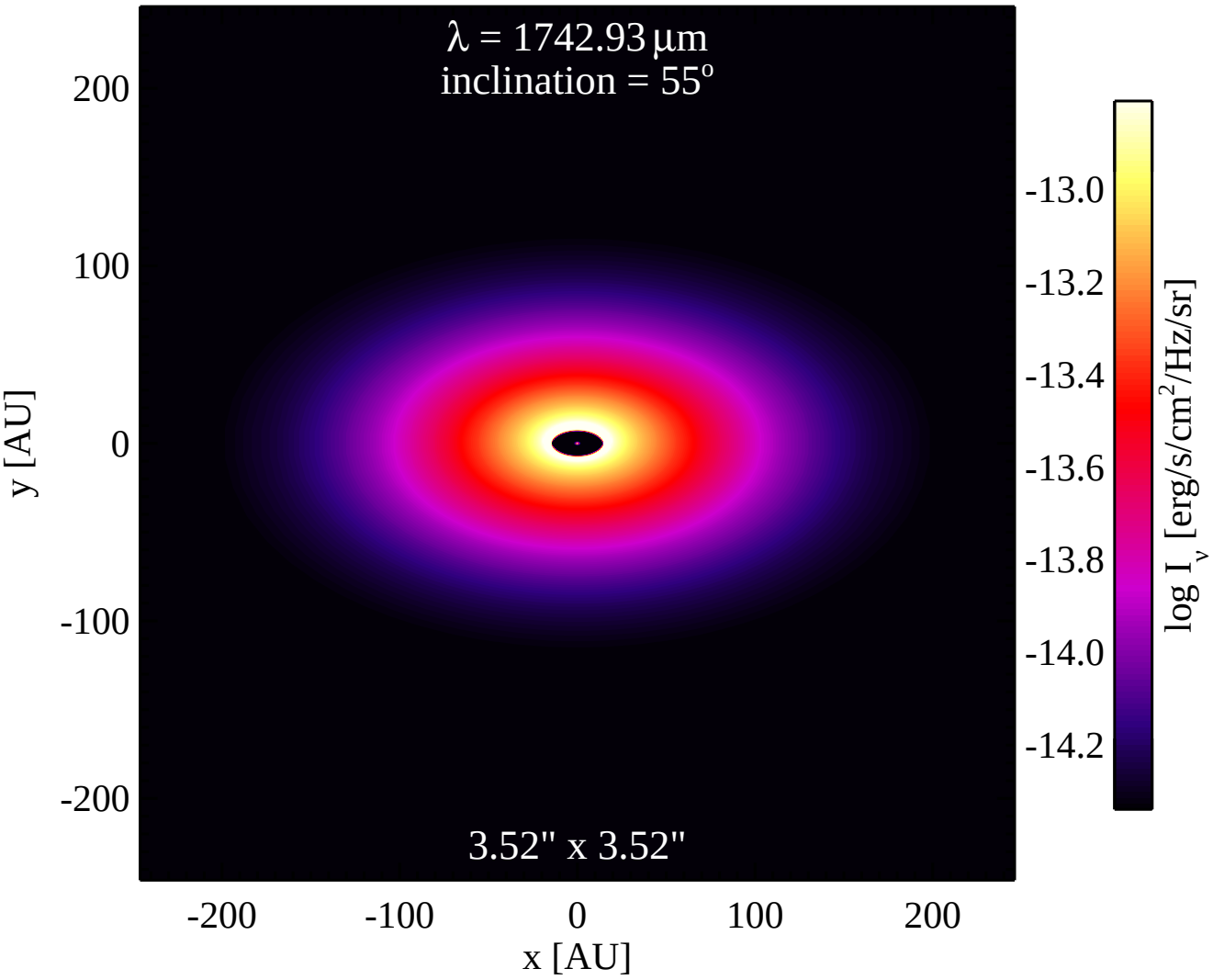

λ = 643.42 μm
inclination = 55°
3.88" x 3.88"
200
100
0
-100
-200
y [AU]
-200
-100
0
100
200
x [AU]
-12.5
-13.0
-13.5
-14.0
log I_ν [erg/s/cm²/Hz/sr]

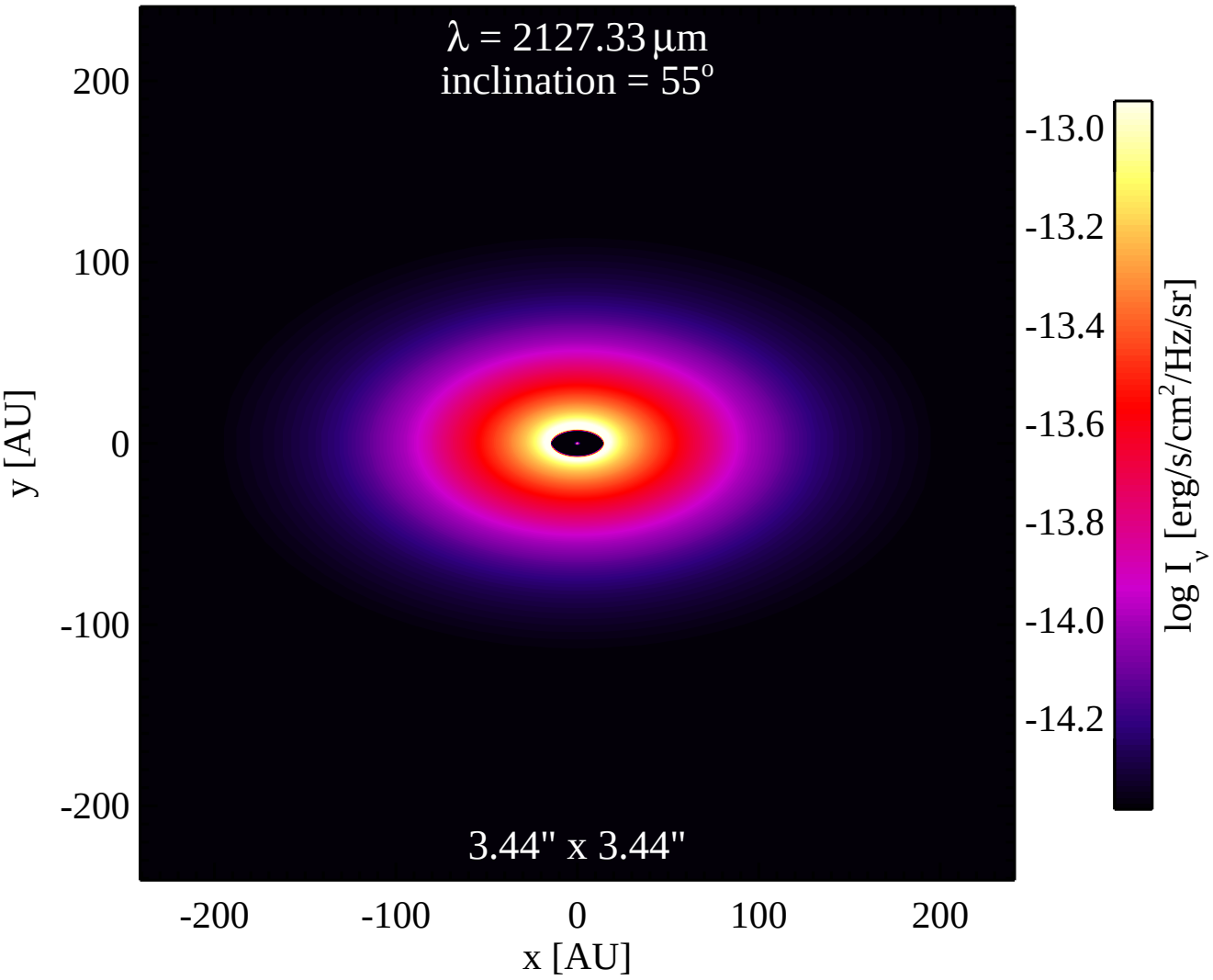

λ = 785.33 μm
inclination = 55°
3.82" x 3.82"
200
100
0
-100
-200
y [AU]
-200
-100
0
100
200
x [AU]
-12.5
-13.0
-13.5
-14.0
log I_ν [erg/s/cm²/Hz/sr]

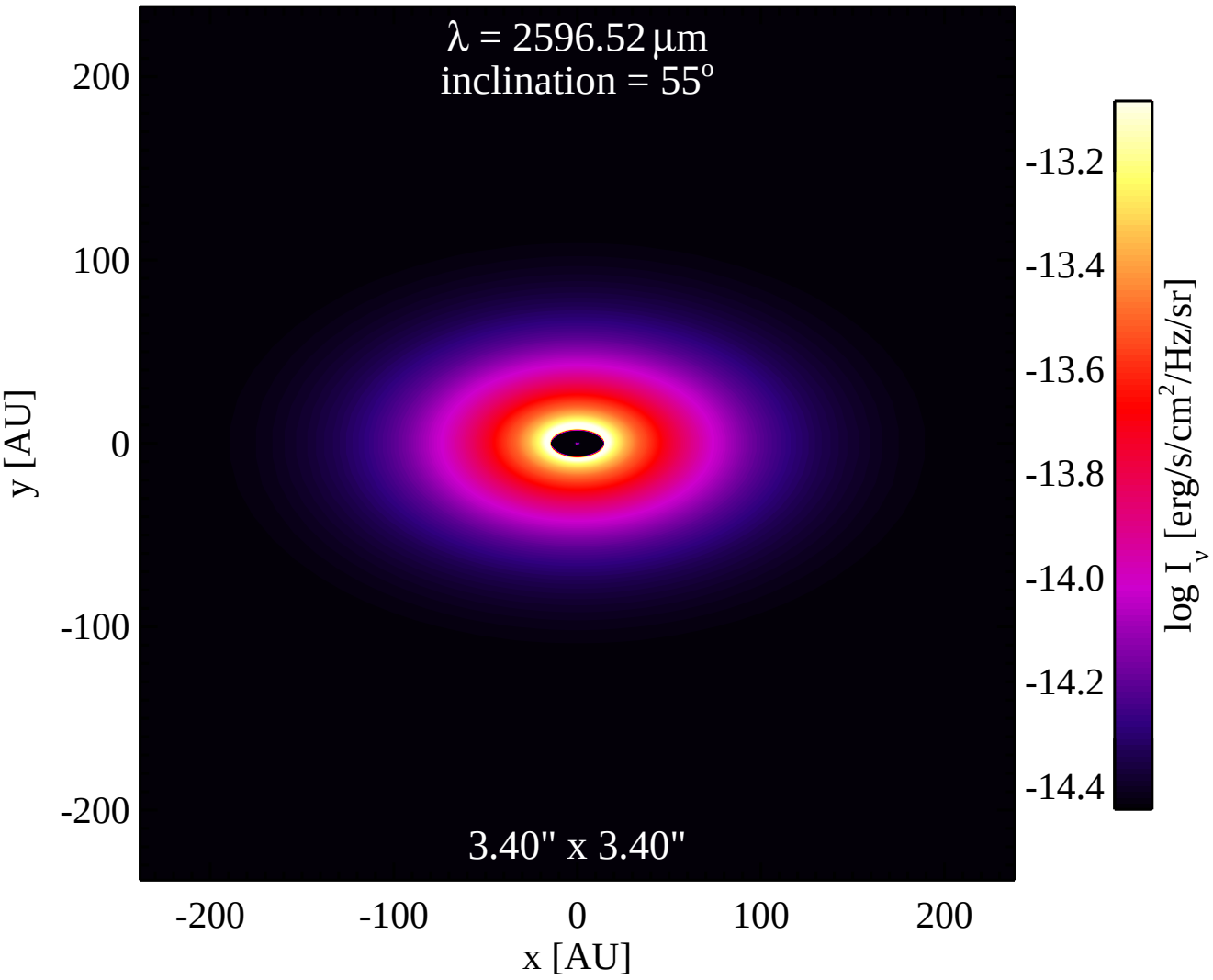

λ = 958.54 μm
inclination = 55°
3.75" x 3.75"
200
100
0
-100
-200
y [AU]
-200
-100
0
100
200
x [AU]
-12.5
-13.0
-13.5
-14.0
log I_ν [erg/s/cm²/Hz/sr]

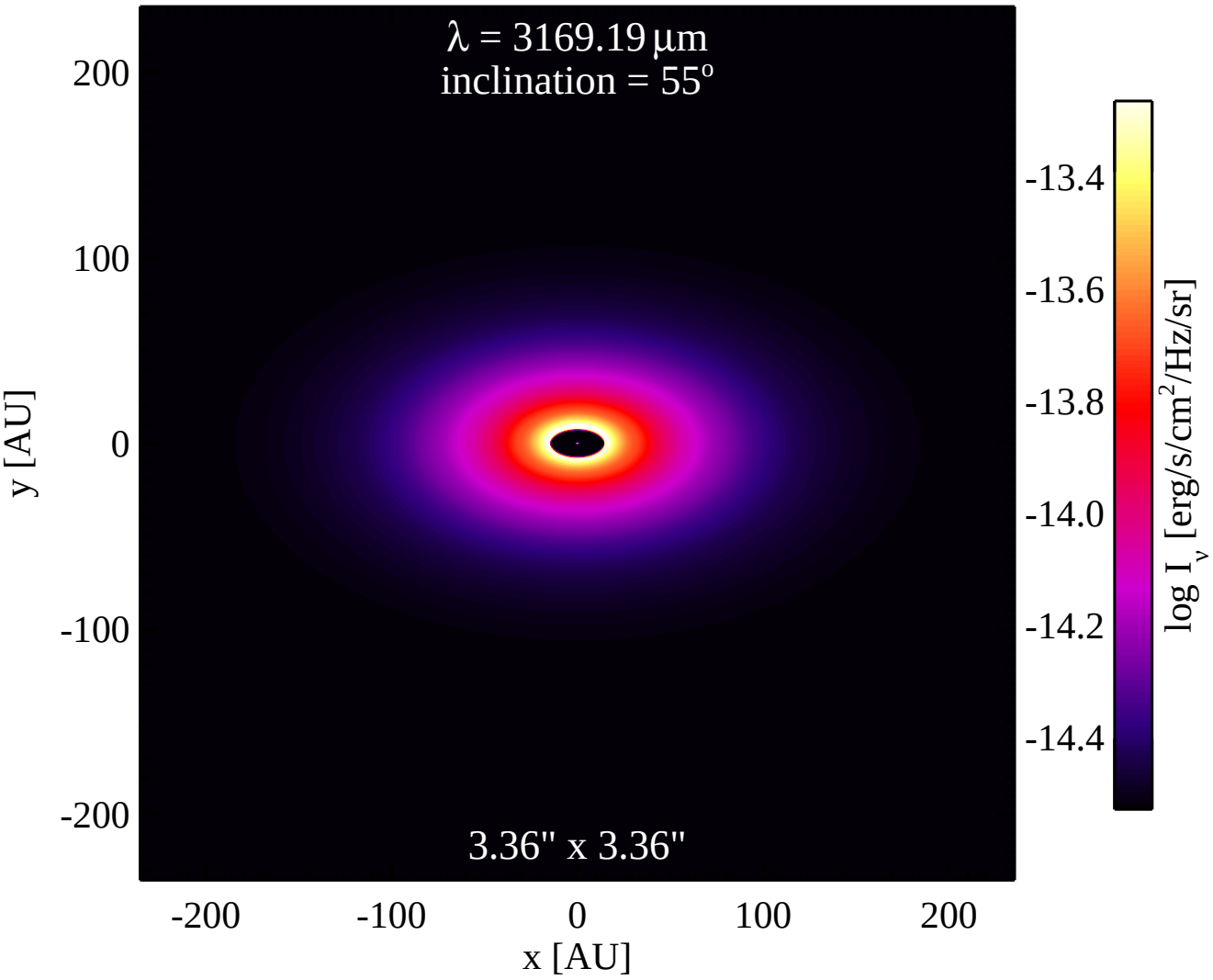

λ = 1169.94 μm
inclination = 55°
3.68" x 3.68"
200
100
0
-100
-200
y [AU]
-200
-100
0
100
200
x [AU]
-13.0
-13.5
-14.0
log I_ν [erg/s/cm²/Hz/sr]

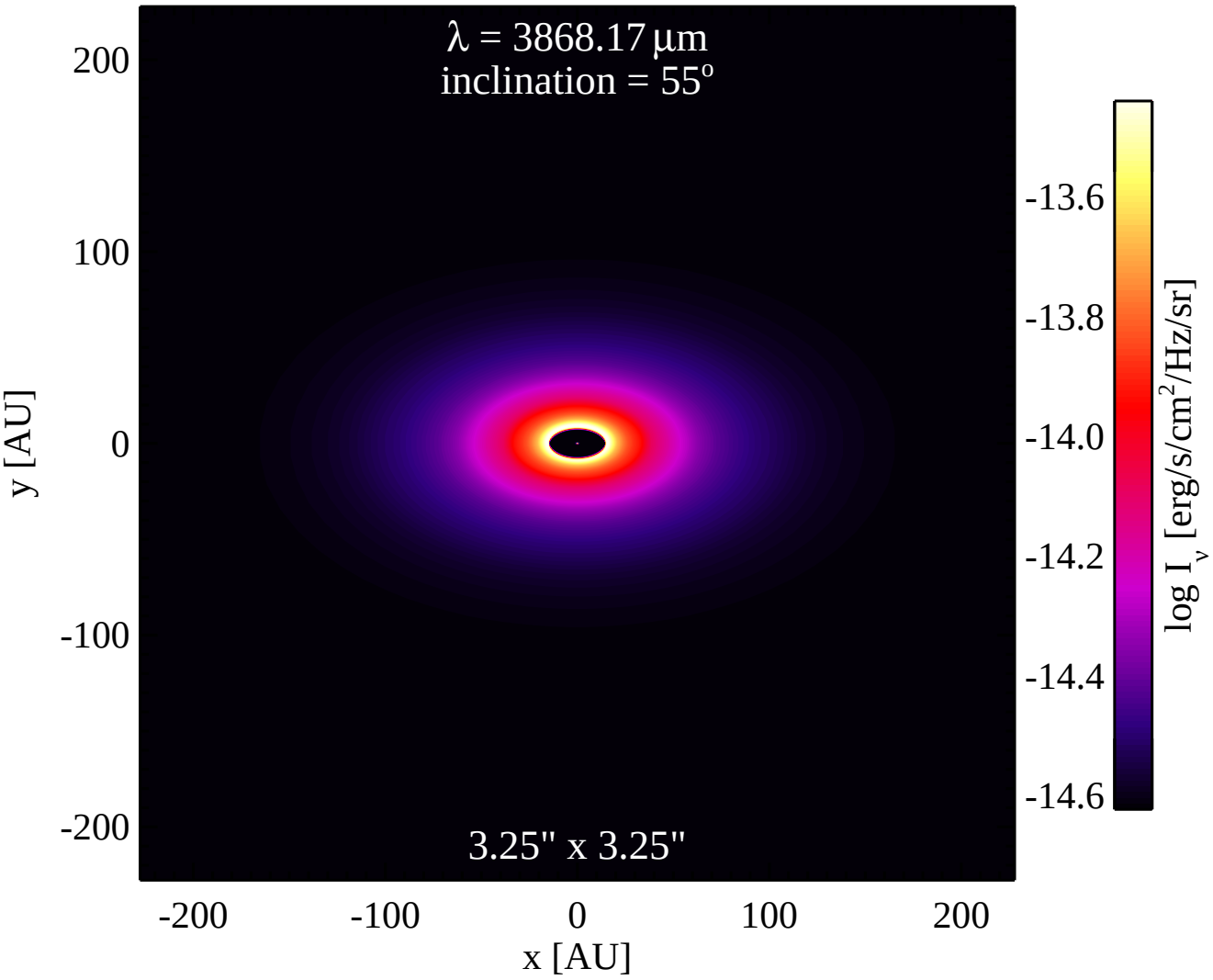

λ = 1427.98 μm
inclination = 55°
3.61" x 3.61"
200
100
0
-100
-200
y [AU]
-200
-100
0
100
200
x [AU]
-13.0
-13.5
-14.0
log I_ν [erg/s/cm²/Hz/sr]

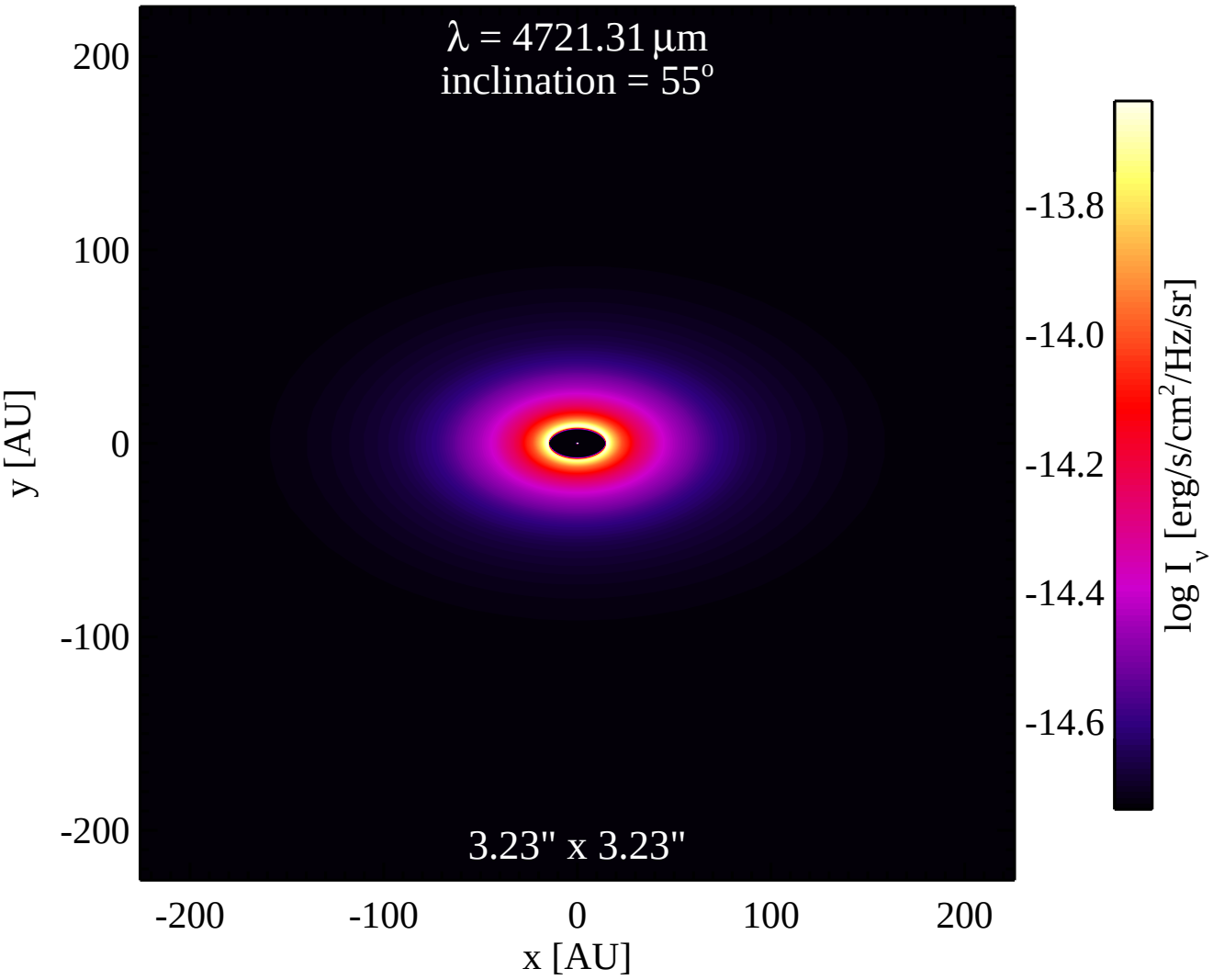

λ = 1742.93 μm
inclination = 55°
3.52" x 3.52"
200
100
0
-100
-200
y [AU]
-200
-100
0
100
200
x [AU]
-13.0
-13.2
-13.4
-13.6
-13.8
-14.0
-14.2
log I_ν [erg/s/cm²/Hz/sr]


λ = 2127.33 μm
inclination = 55°
3.44" x 3.44"
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
log I_ν [erg/s/cm²/Hz/sr]


λ = 2596.52 μm
inclination = 55°
3.40" x 3.40"
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
-14.4
log I_ν [erg/s/cm²/Hz/sr]


λ = 3169.19 μm
inclination = 55°
3.36" x 3.36"
200
100
0
-100
-200
y [AU]
-200
-100
0
100
200
x [AU]
-13.4
-13.6
-13.8
-14.0
-14.2
-14.4
log I_ν [erg/s/cm²/Hz/sr]


λ = 3868.17 μm
inclination = 55°
3.25" x 3.25"
200
100
0
-100
-200
y [AU]
-200
-100
0
100
200
x [AU]
-13.6
-13.8
-14.0
-14.2
-14.4
-14.6
log I_ν [erg/s/cm²/Hz/sr]


λ = 4721.31 μm
inclination = 55°
3.23" x 3.23"
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]