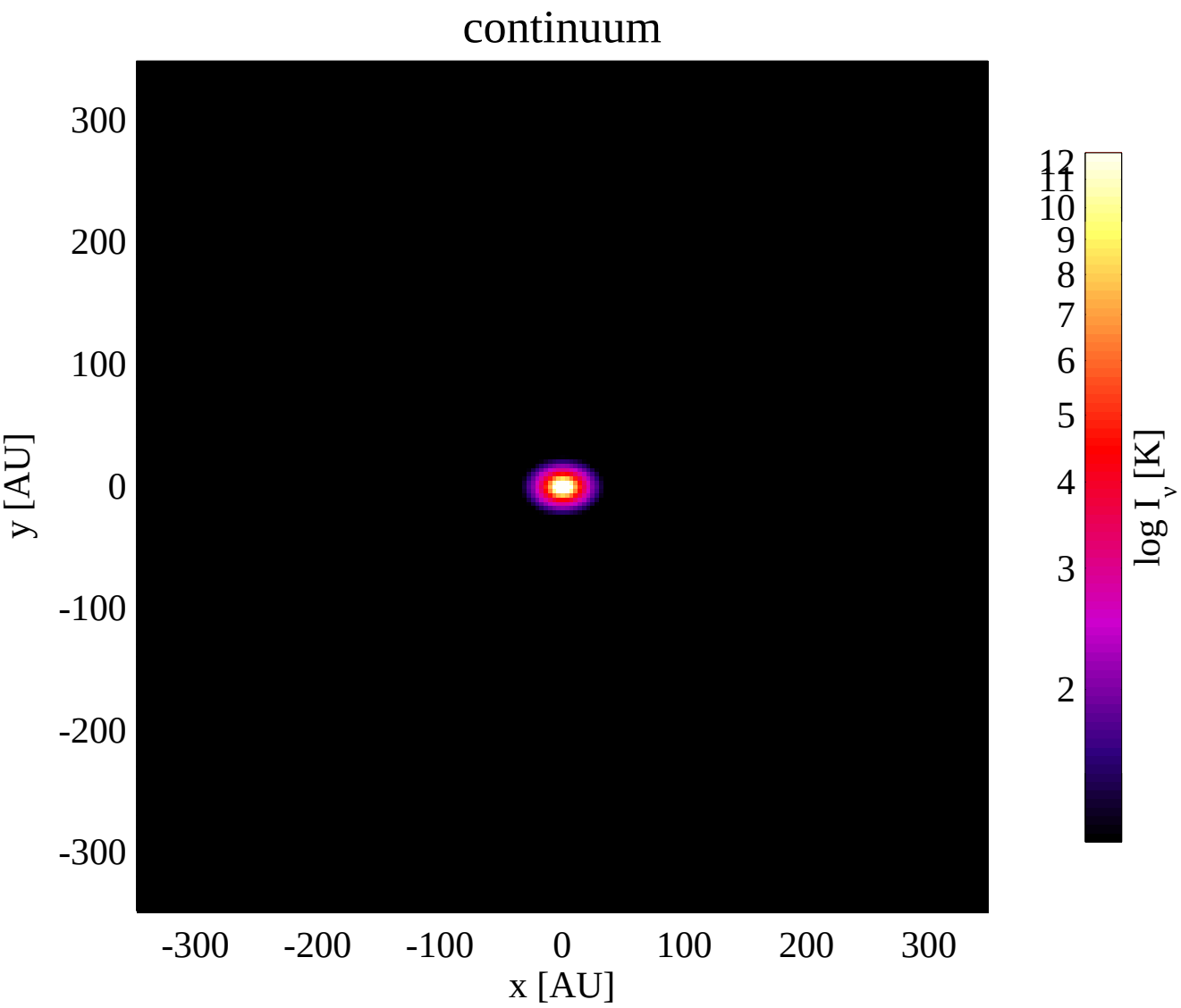
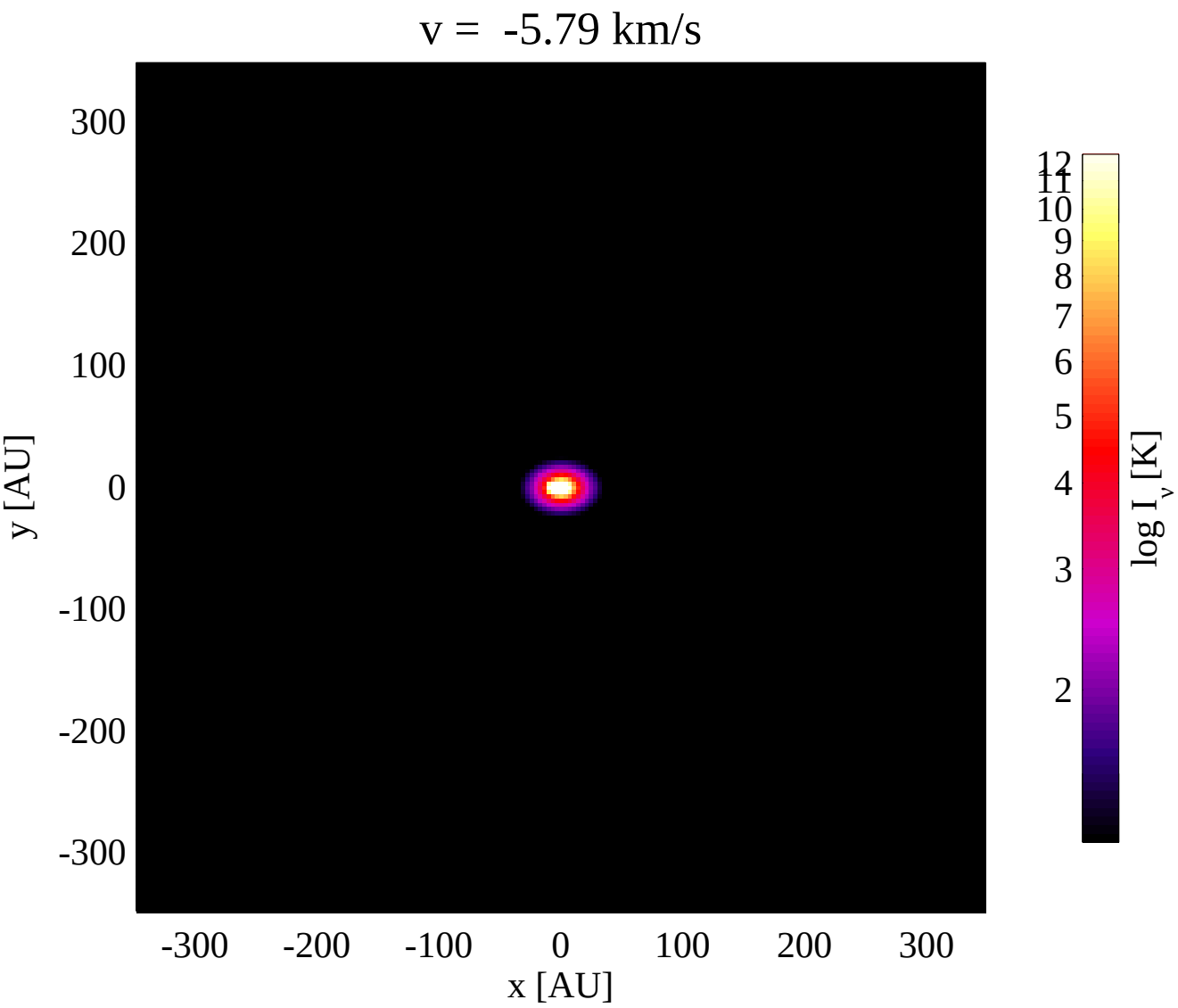
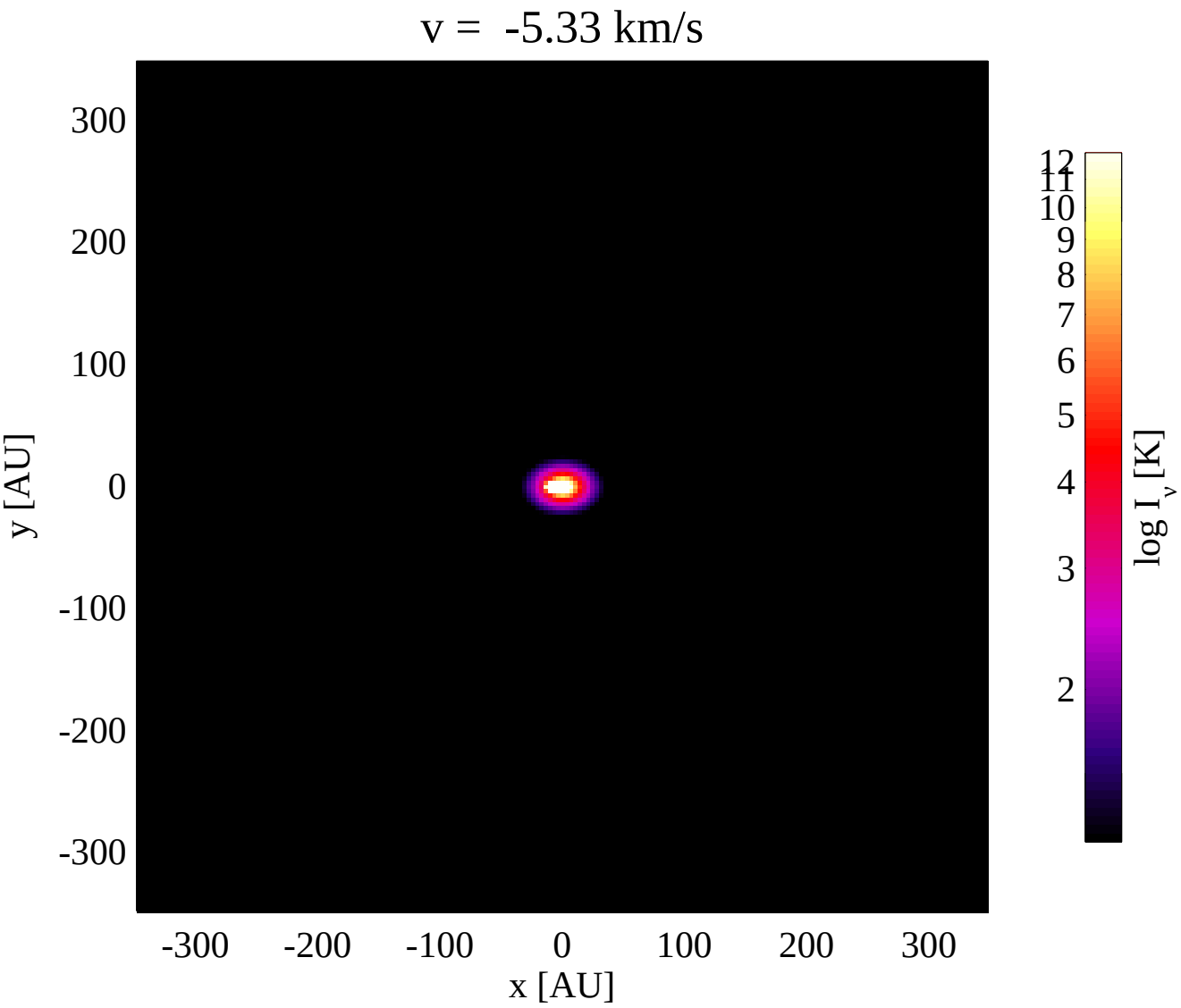
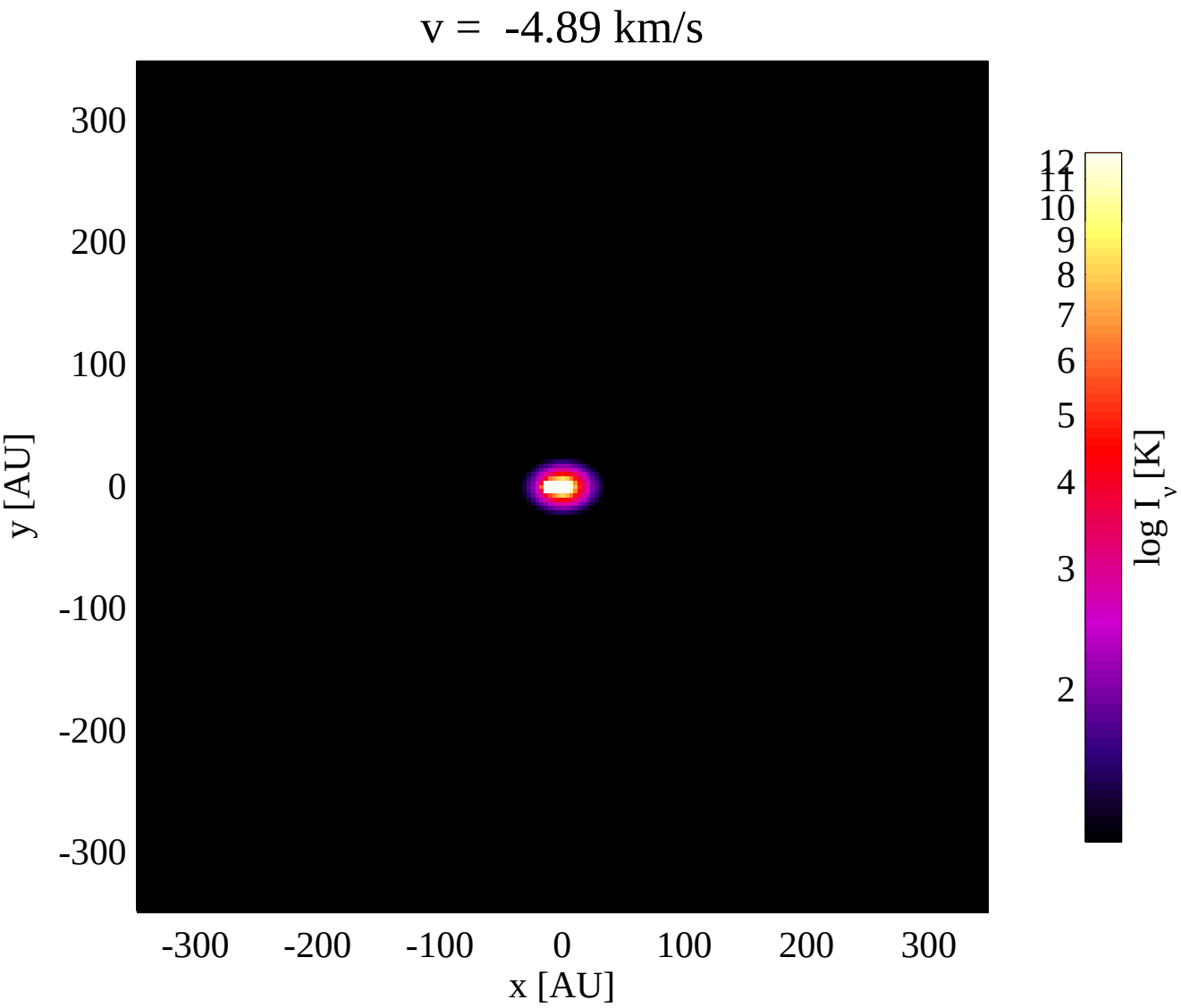
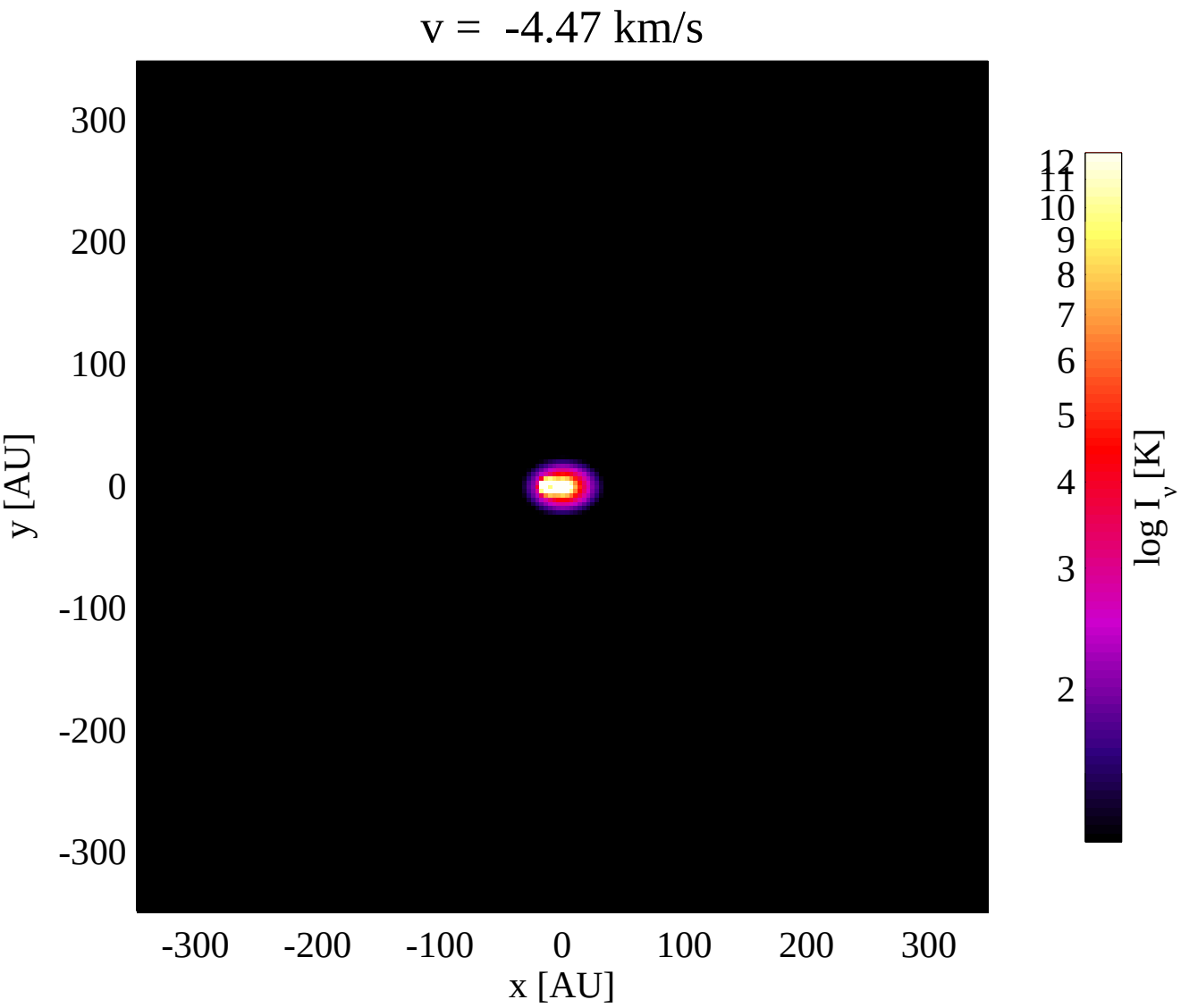
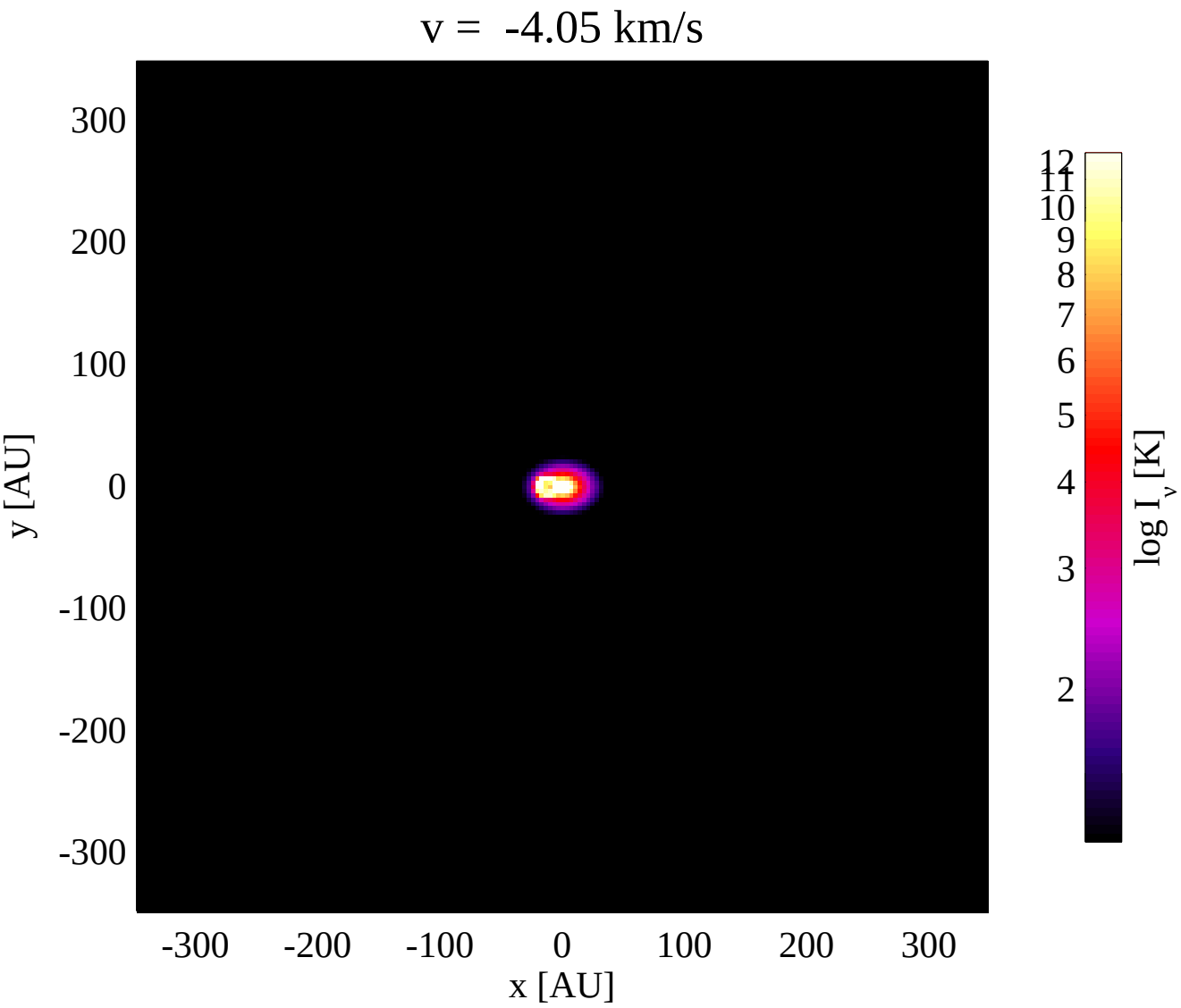

continuum
300
200
100
0
-100
-200
-300
y [AU]
-300
-200
-100
0
100
200
300
x [AU]
12
11
10
9
8
7
6
5
4
3
2
log I_ν [K]

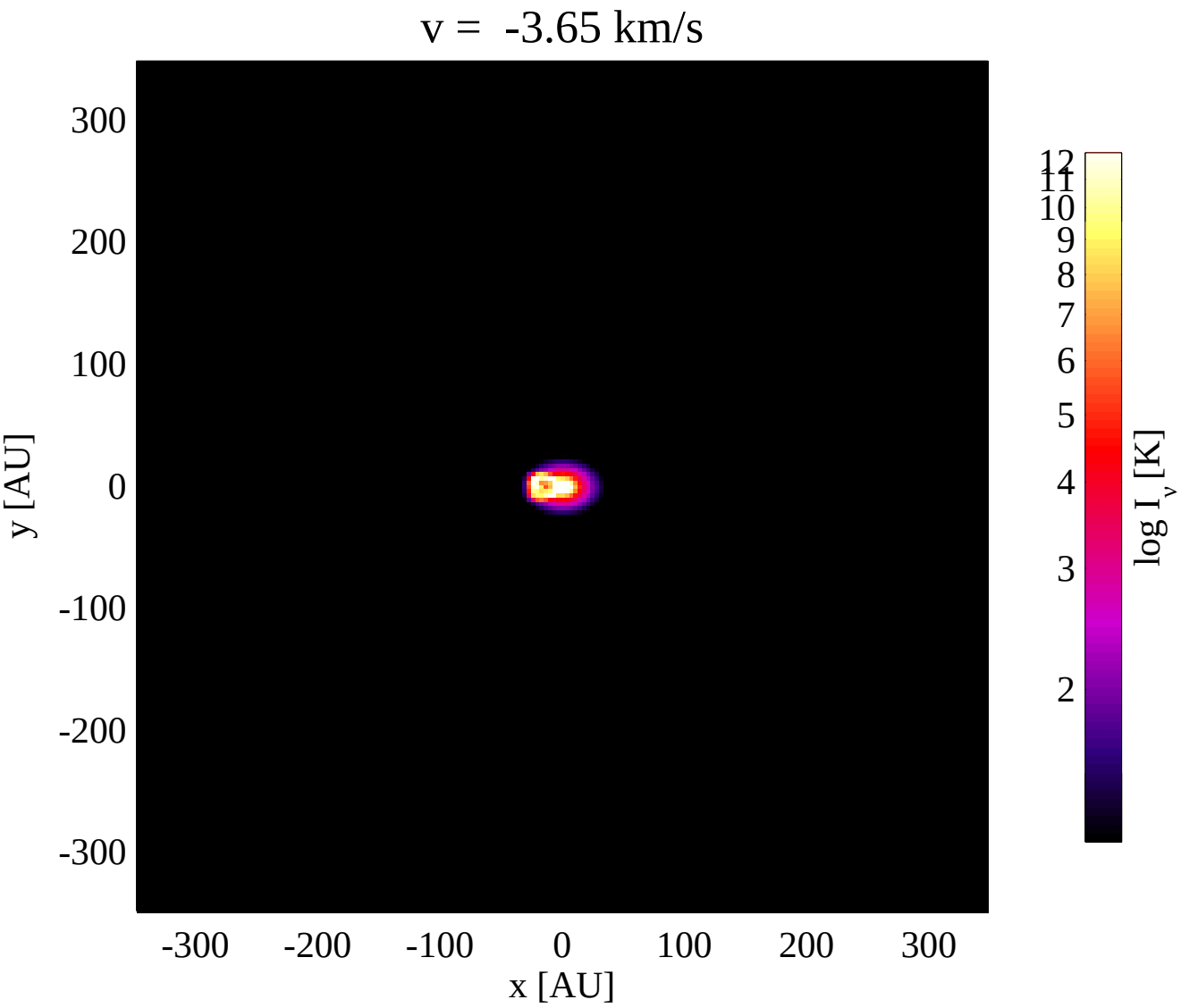

v = -5.79 km/s
300
200
100
0
-100
-200
-300
y [AU]
-300
-200
-100
0
100
200
300
x [AU]
12
11
10
9
8
7
6
5
4
3
2
log I_ν [K]

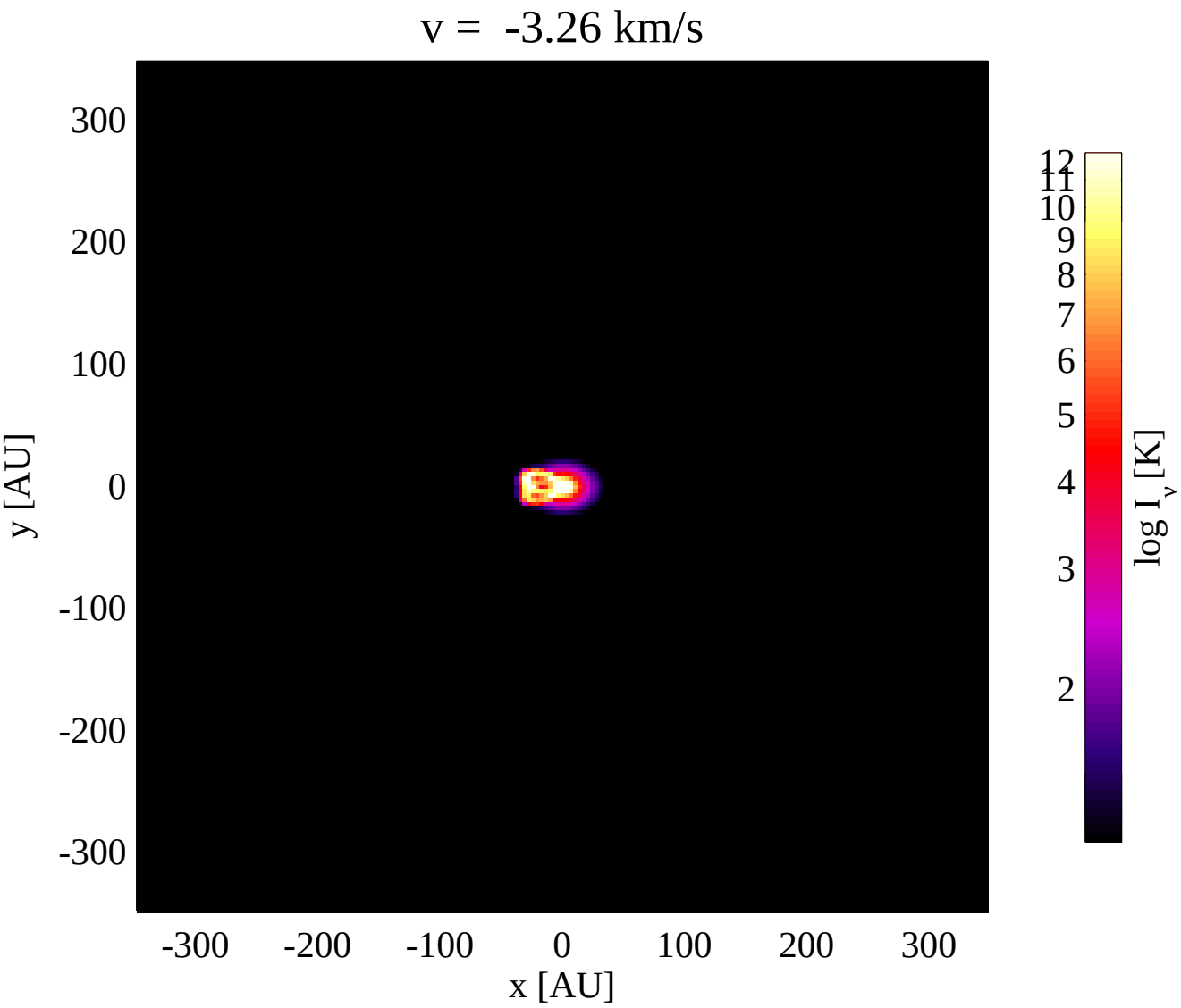

v = -5.33 km/s
300
200
100
0
-100
-200
-300
y [AU]
-300
-200
-100
0
100
200
300
x [AU]
12
11
10
9
8
7
6
5
4
3
2
log I_ν [K]

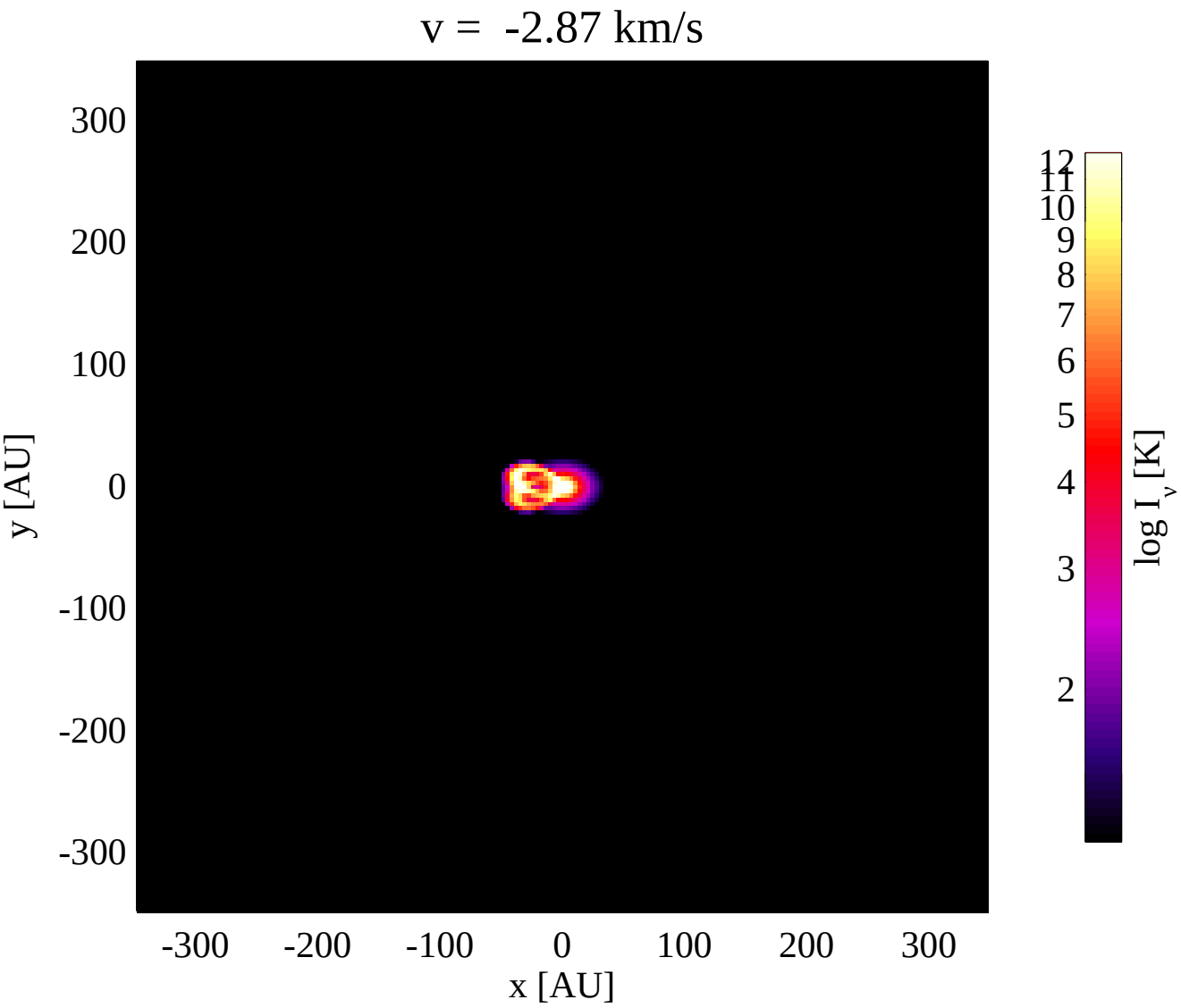

v = -4.89 km/s
300
200
100
0
-100
-200
-300
y [AU]
-300
-200
-100
0
100
200
300
x [AU]
12
11
10
9
8
7
6
5
4
3
2
log I_ν [K]

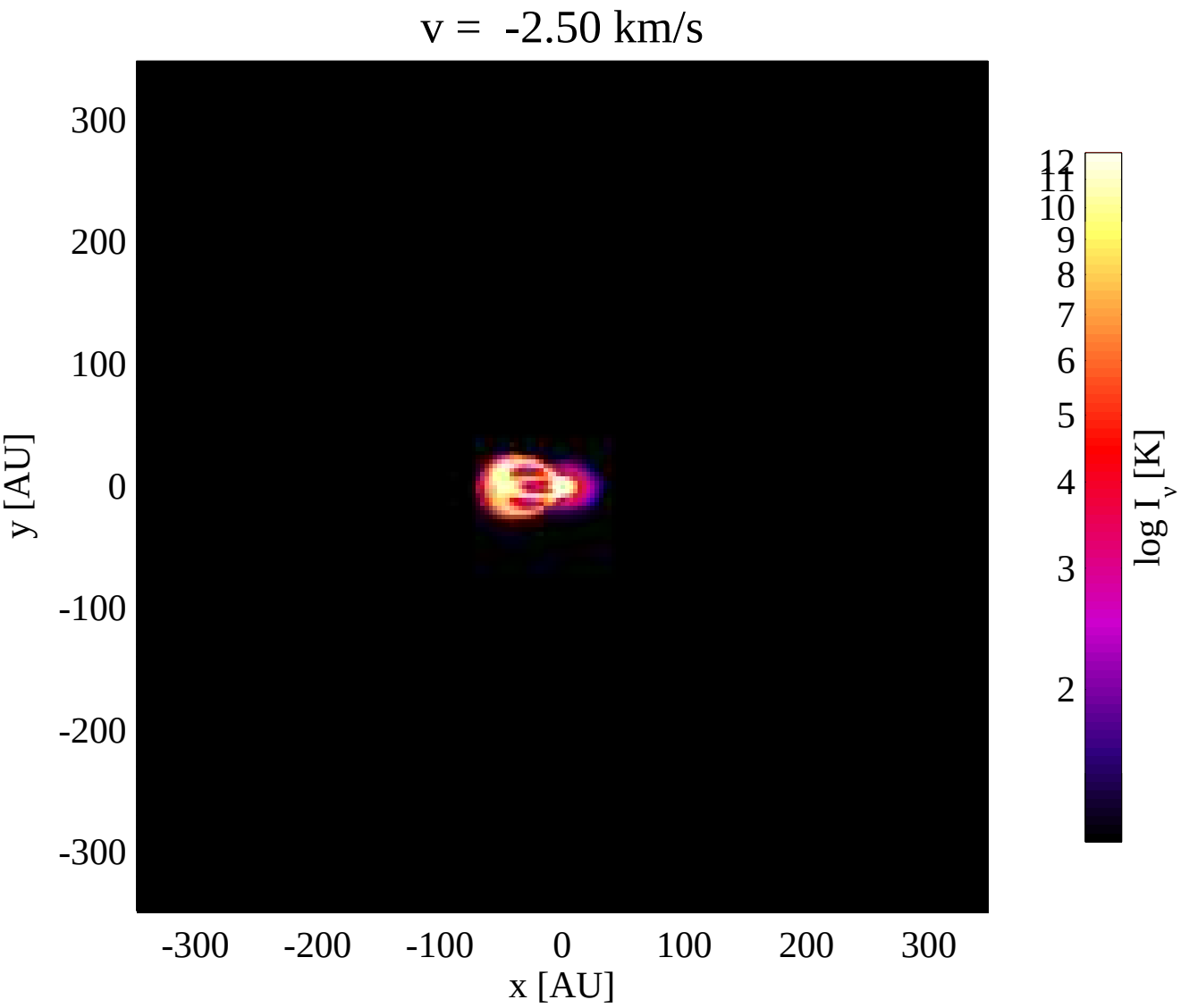

v = -4.47 km/s
300
200
100
0
-100
-200
-300
y [AU]
-300
-200
-100
0
100
200
300
x [AU]
12
11
10
9
8
7
6
5
4
3
2
log I_ν [K]

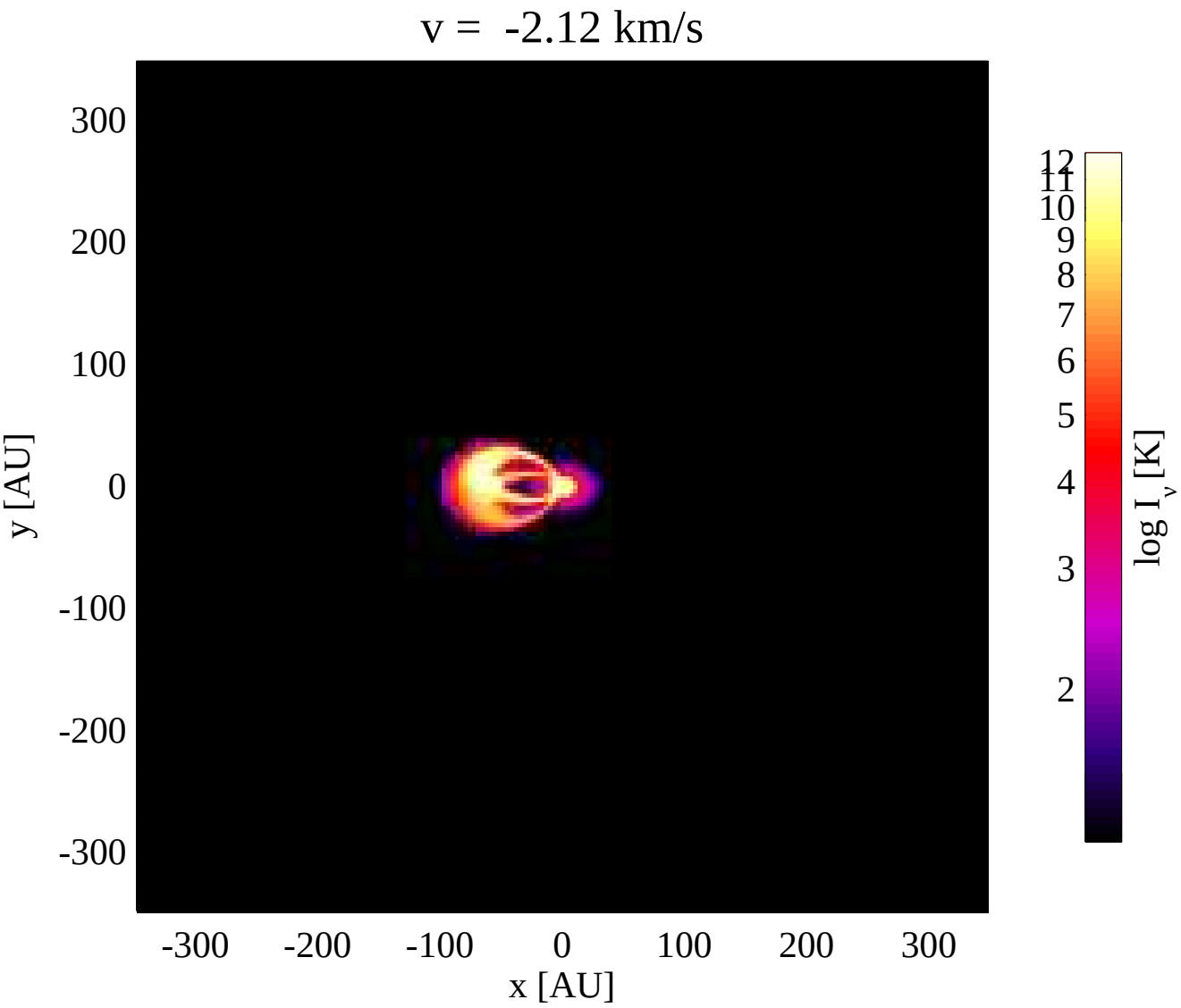

v = -4.05 km/s
300
200
100
0
-100
-200
-300
y [AU]
-300
-200
-100
0
100
200
300
x [AU]
12
11
10
9
8
7
6
5
4
3
2
log I_ν [K]

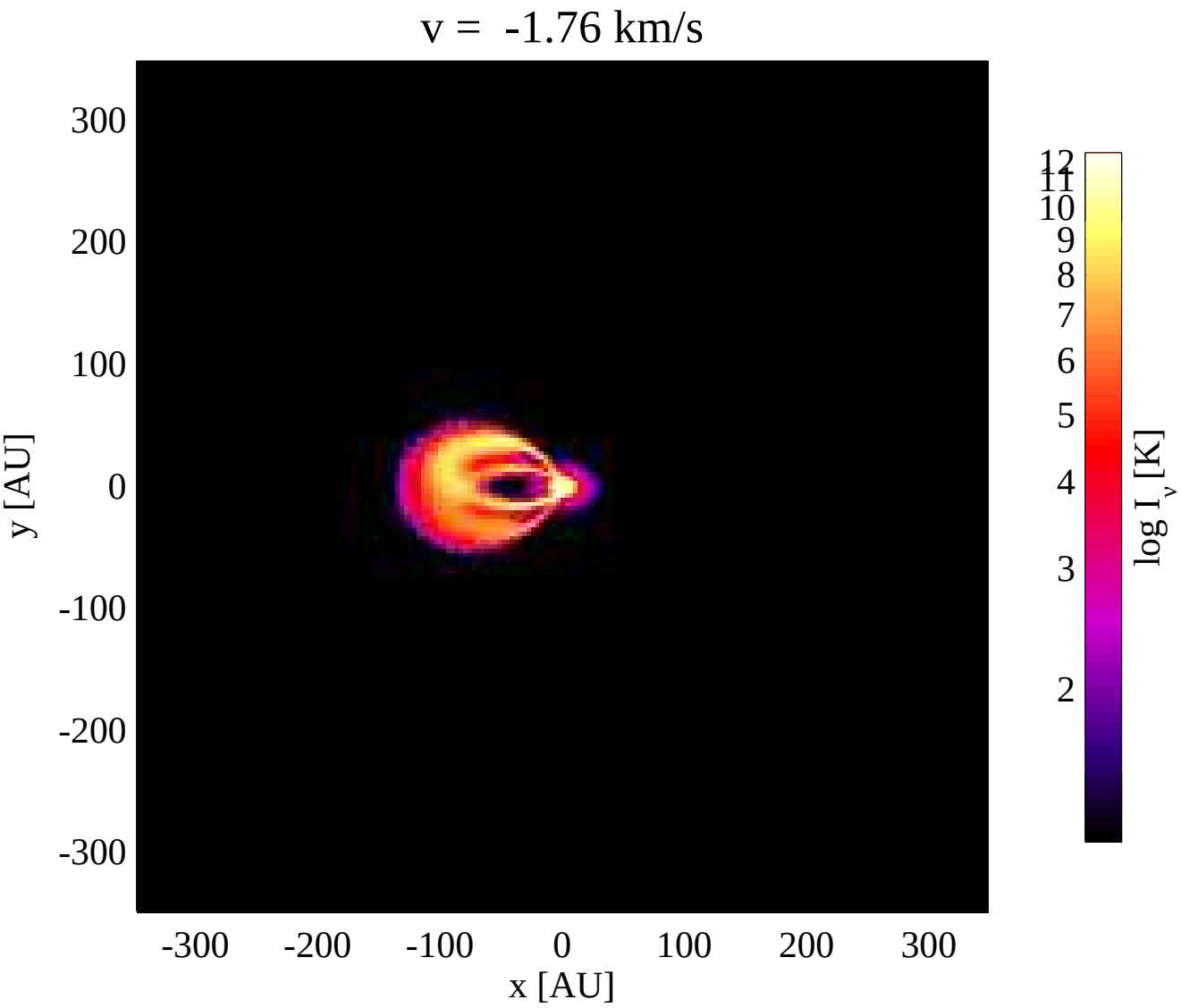

v = -3.65 km/s
300
200
100
0
-100
-200
-300
y [AU]
-300
-200
-100
0
100
200
300
x [AU]
12
11
10
9
8
7
6
5
4
3
2
log I_ν [K]

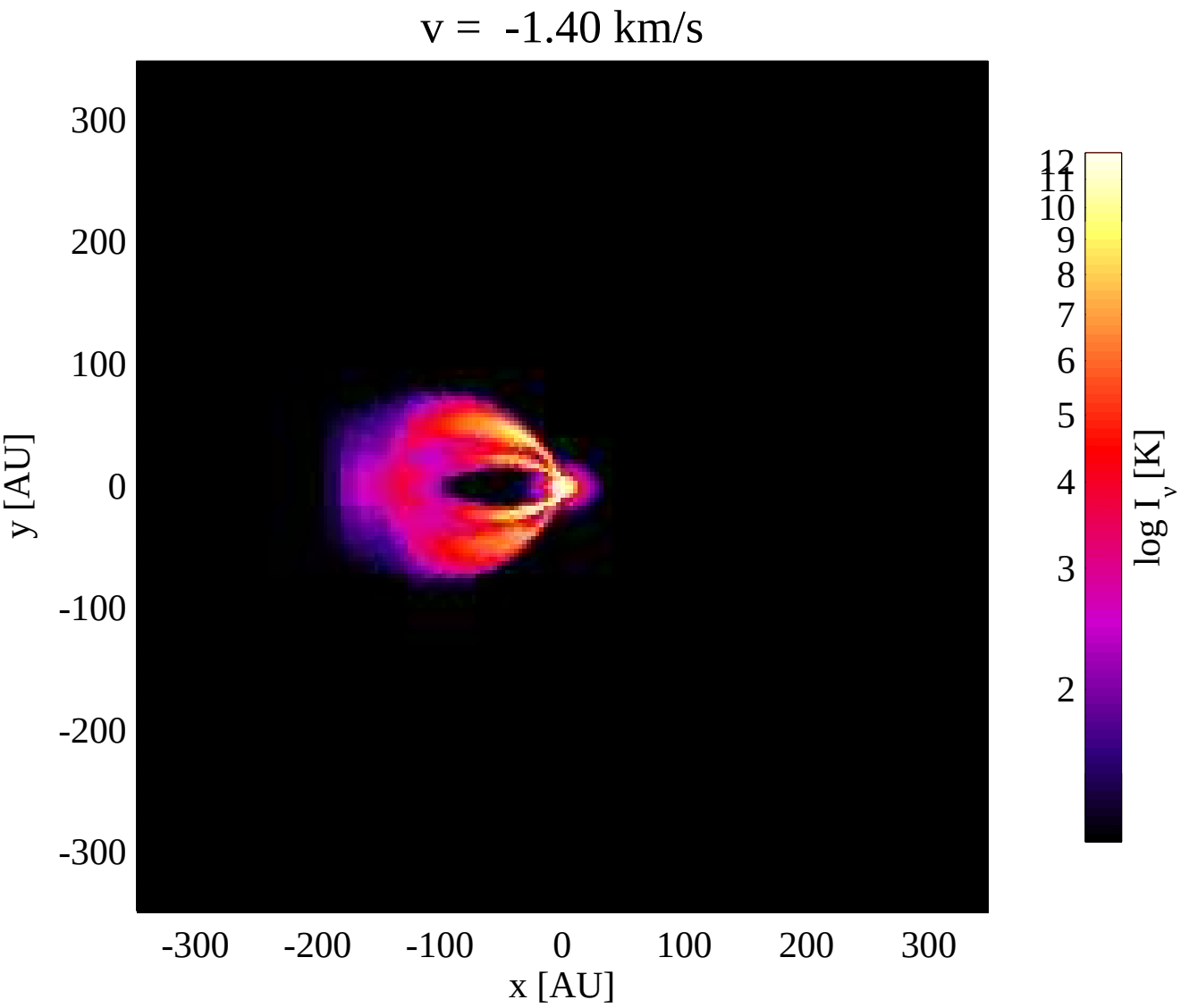

v = -3.26 km/s
300
200
100
0
-100
-200
-300
y [AU]
-300
-200
-100
0
100
200
300
x [AU]
12
11
10
9
8
7
6
5
4
3
2
log I_ν [K]

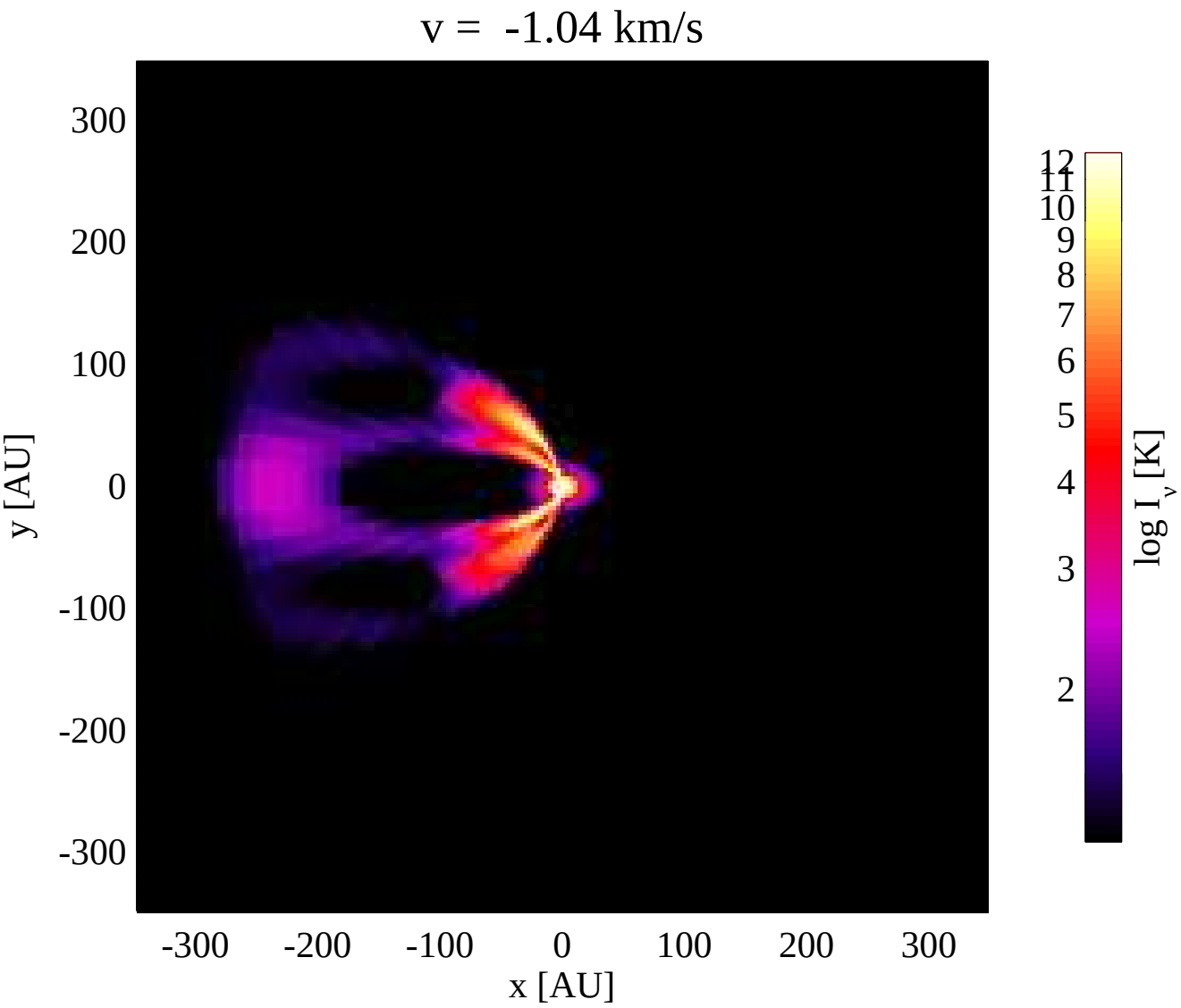

v = -2.87 km/s
300
200
100
0
-100
-200
-300
y [AU]
-300
-200
-100
0
100
200
300
x [AU]
12
11
10
9
8
7
6
5
4
3
2
log I_ν [K]

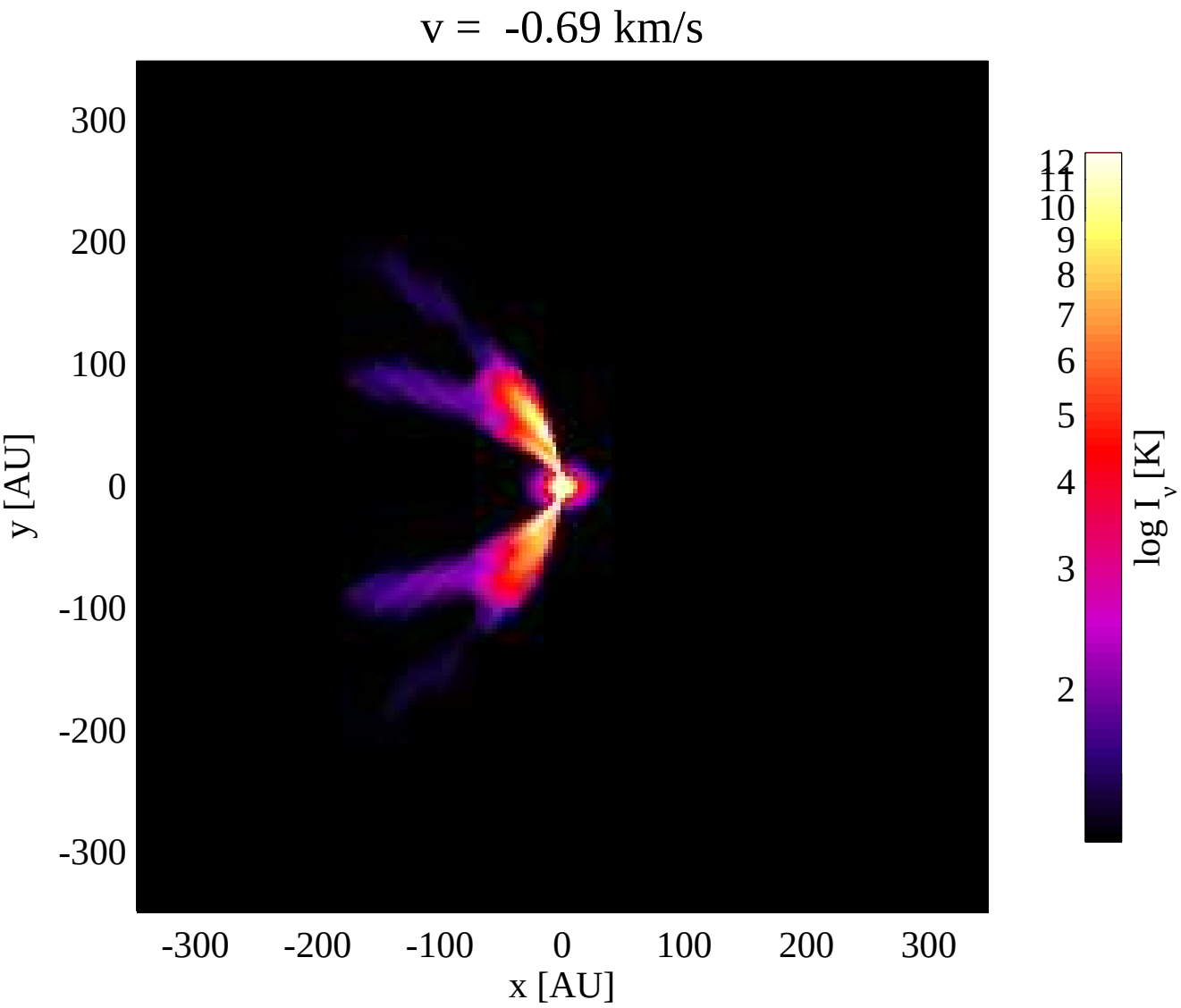

v = -2.50 km/s
300
200
100
0
-100
-200
-300
y [AU]
-300
-200
-100
0
100
200
300
x [AU]
12
11
10
9
8
7
6
5
4
3
2
log I_ν [K]

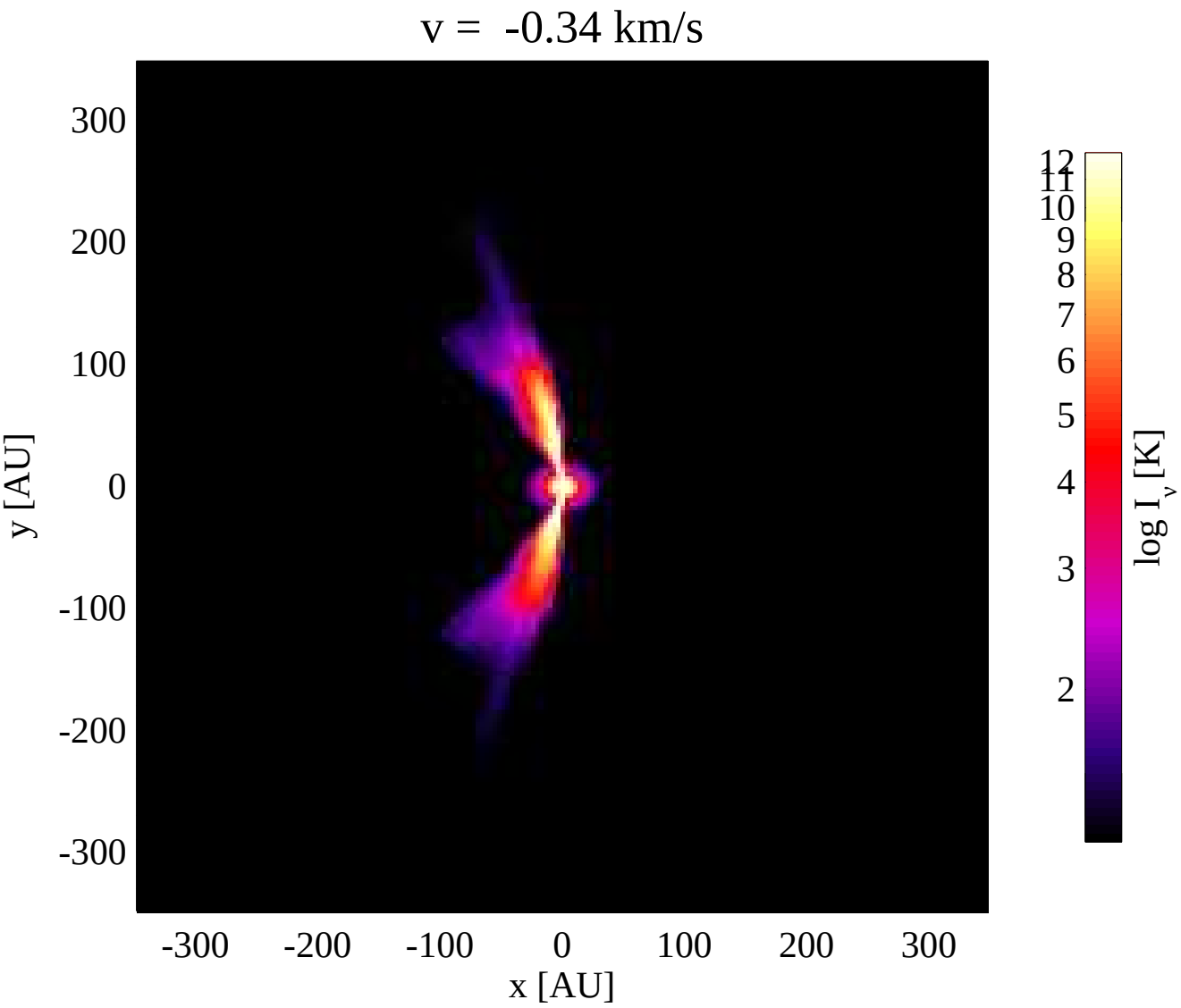

v = -2.12 km/s
300
200
100
0
-100
-200
-300
y [AU]
-300
-200
-100
0
100
200
300
x [AU]
12
11
10
9
8
7
6
5
4
3
2
log I_ν [K]

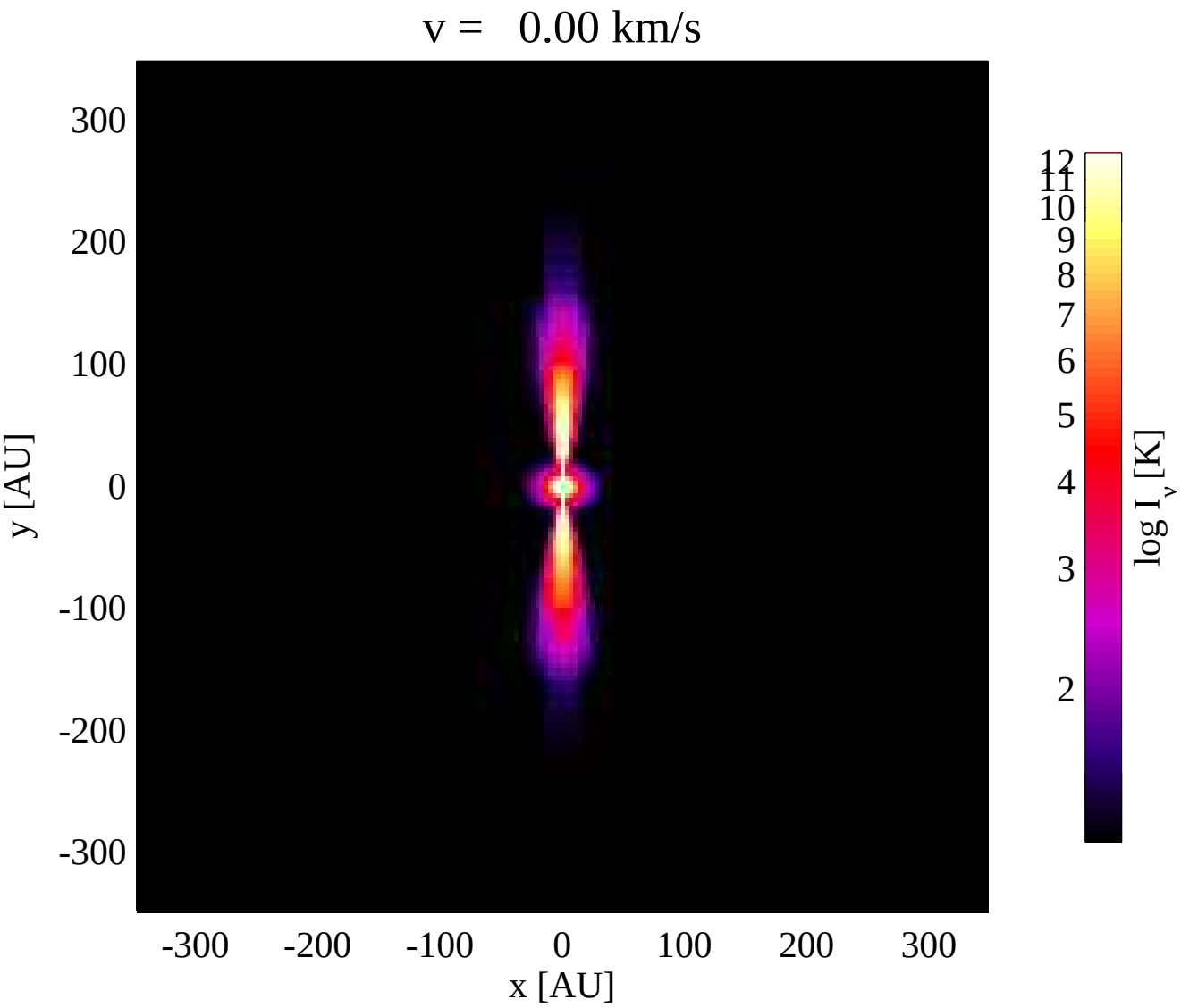

v = -1.76 km/s
300
200
100
0
-100
-200
-300
y [AU]
-300
-200
-100
0
100
200
300
x [AU]
12
11
10
9
8
7
6
5
4
3
2
log I_ν [K]

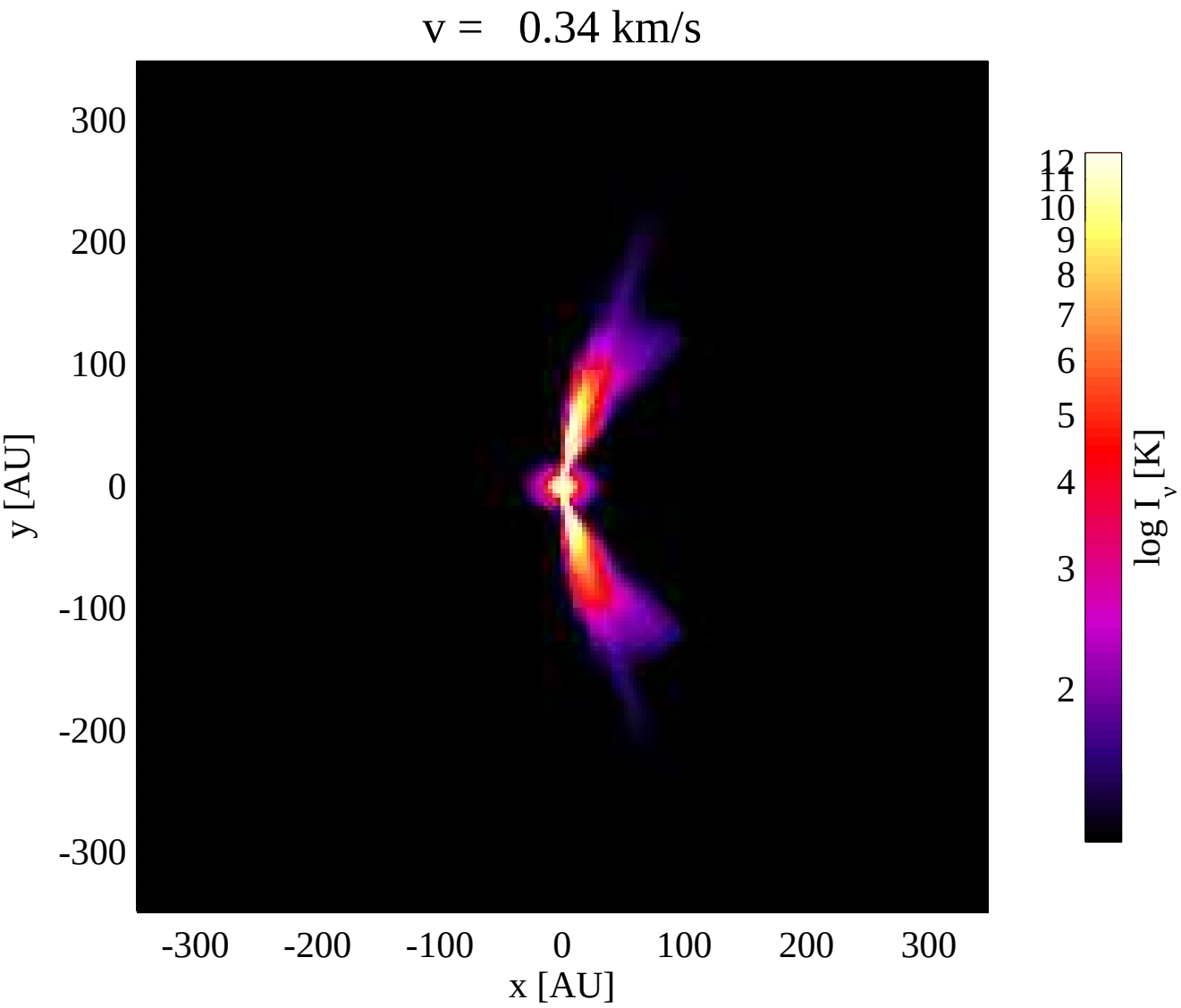

v = -1.40 km/s
300
200
100
0
-100
-200
-300
y [AU]
-300
-200
-100
0
100
200
300
x [AU]
12
11
10
9
8
7
6
5
4
3
2
log I_ν [K]

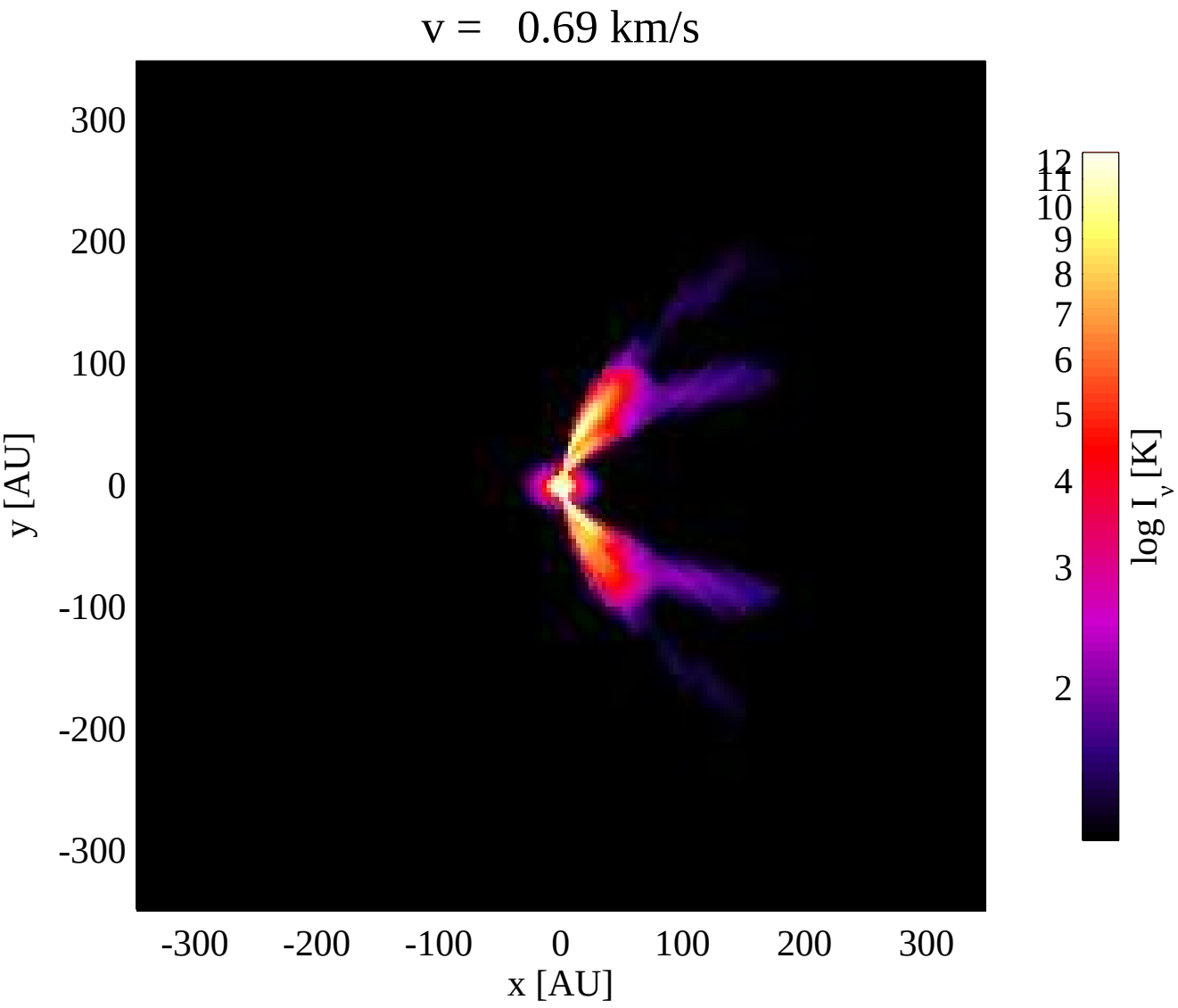

v = -1.04 km/s
300
200
100
0
-100
-200
-300
y [AU]
-300
-200
-100
0
100
200
300
x [AU]
12
11
10
9
8
7
6
5
4
3
2
log I_ν [K]

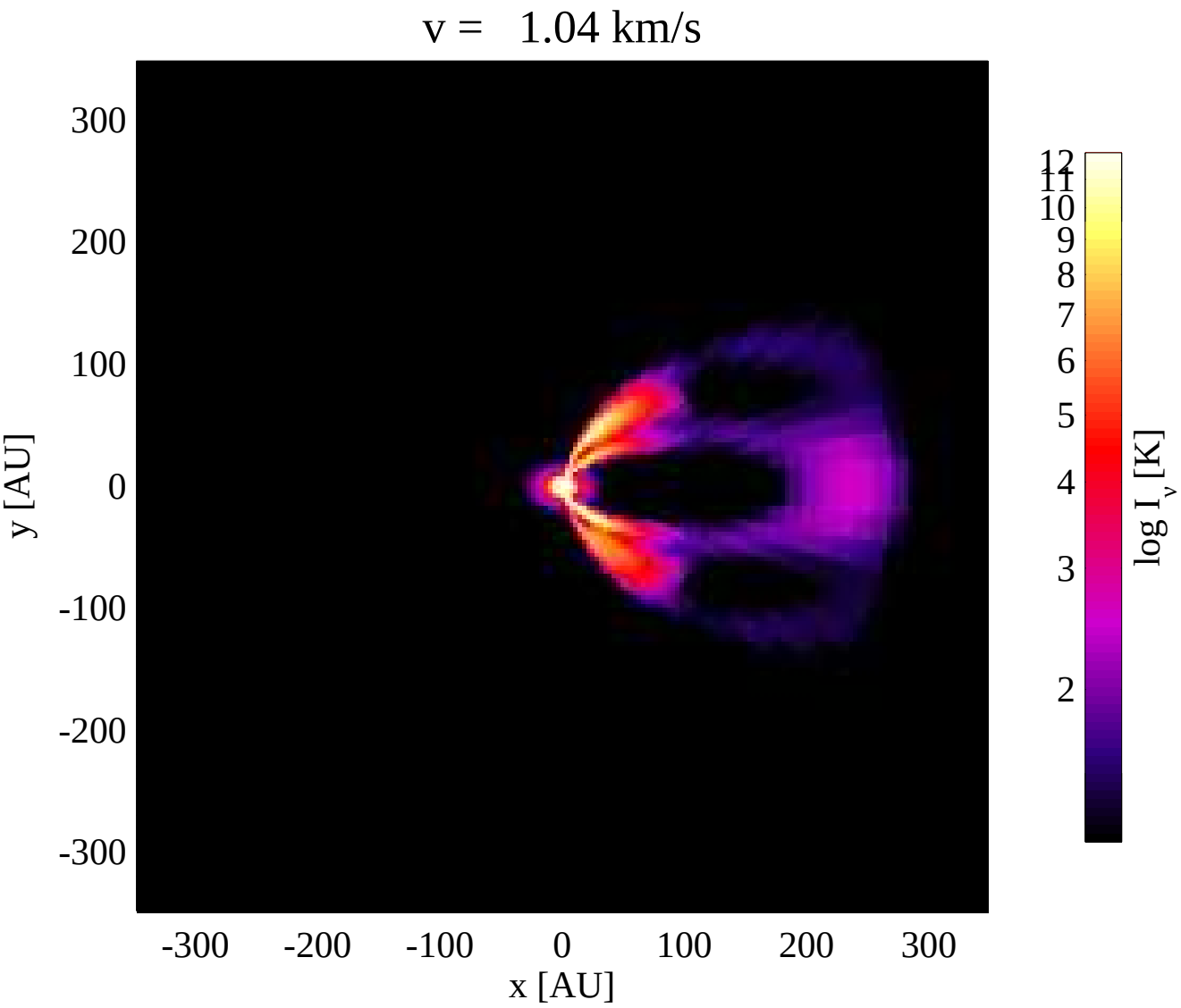

v = -0.69 km/s
300
200
100
0
-100
-200
-300
y [AU]
-300
-200
-100
0
100
200
300
x [AU]
12
11
10
9
8
7
6
5
4
3
2
log I_ν [K]

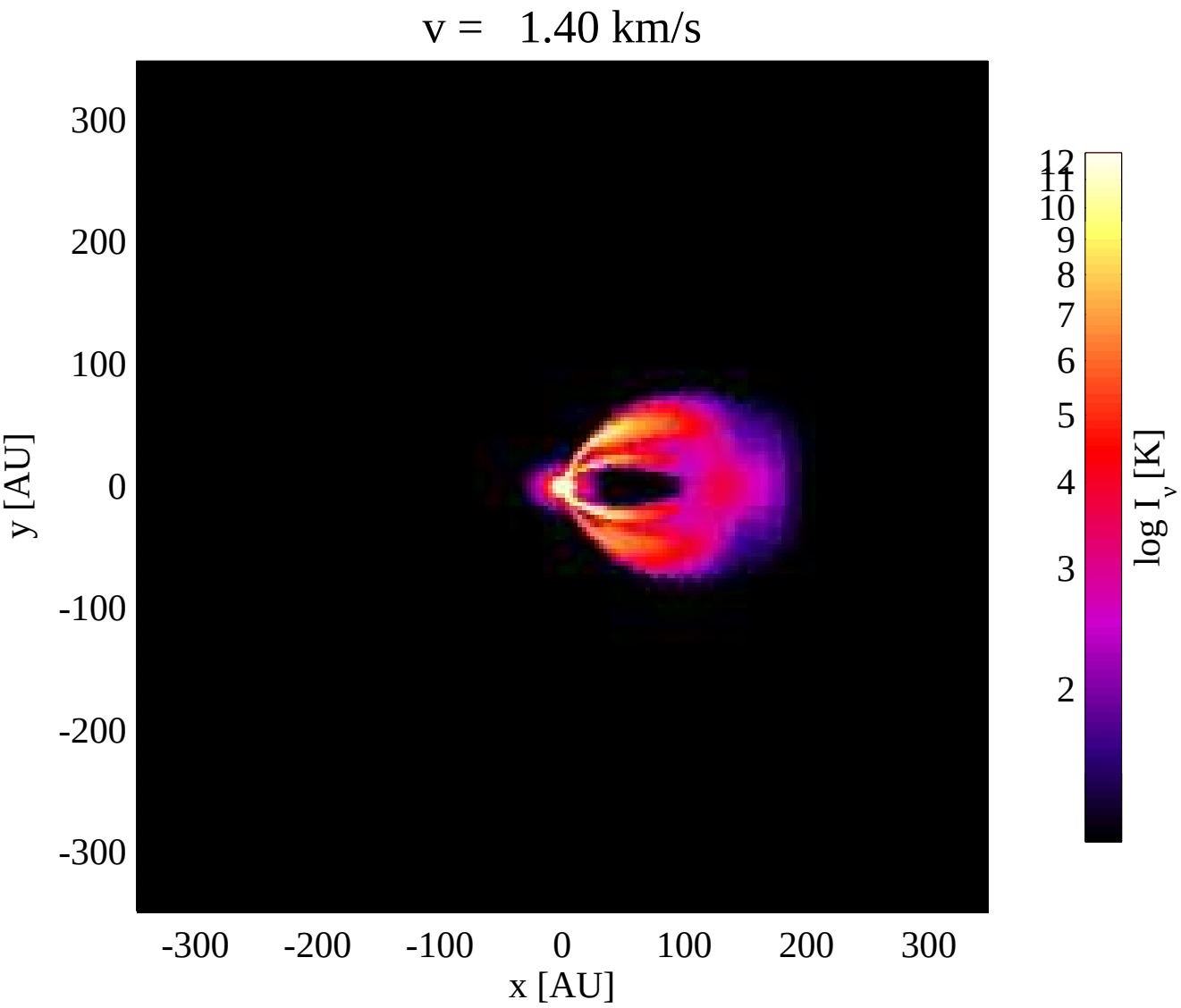

v = -0.34 km/s
300
200
100
0
-100
-200
-300
y [AU]
-300
-200
-100
0
100
200
300
x [AU]
12
11
10
9
8
7
6
5
4
3
2
log I_ν [K]

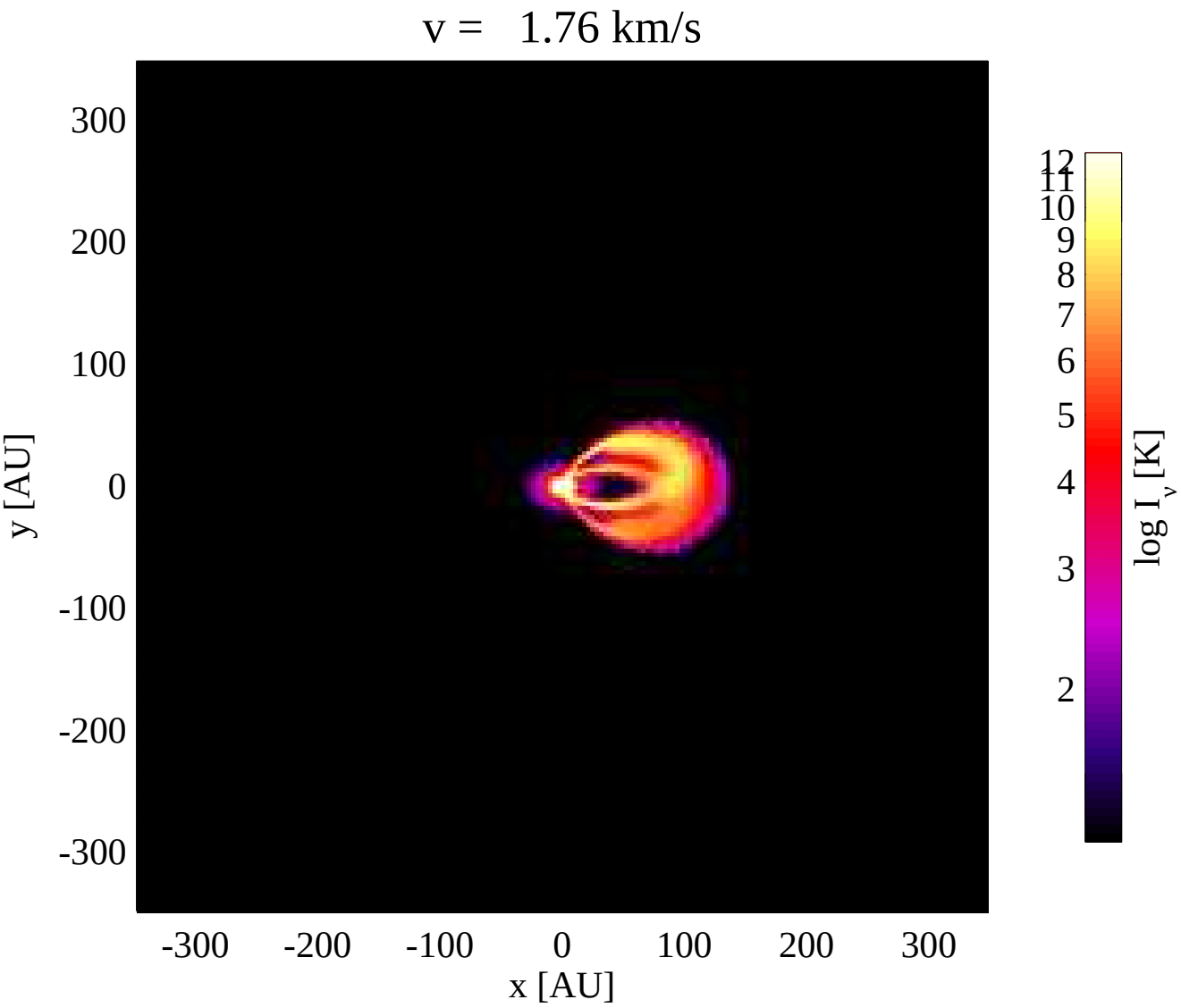

v = 0.00 km/s
300
200
100
0
-100
-200
-300
y [AU]
-300
-200
-100
0
100
200
300
x [AU]
12
11
10
9
8
7
6
5
4
3
2
log I_ν [K]

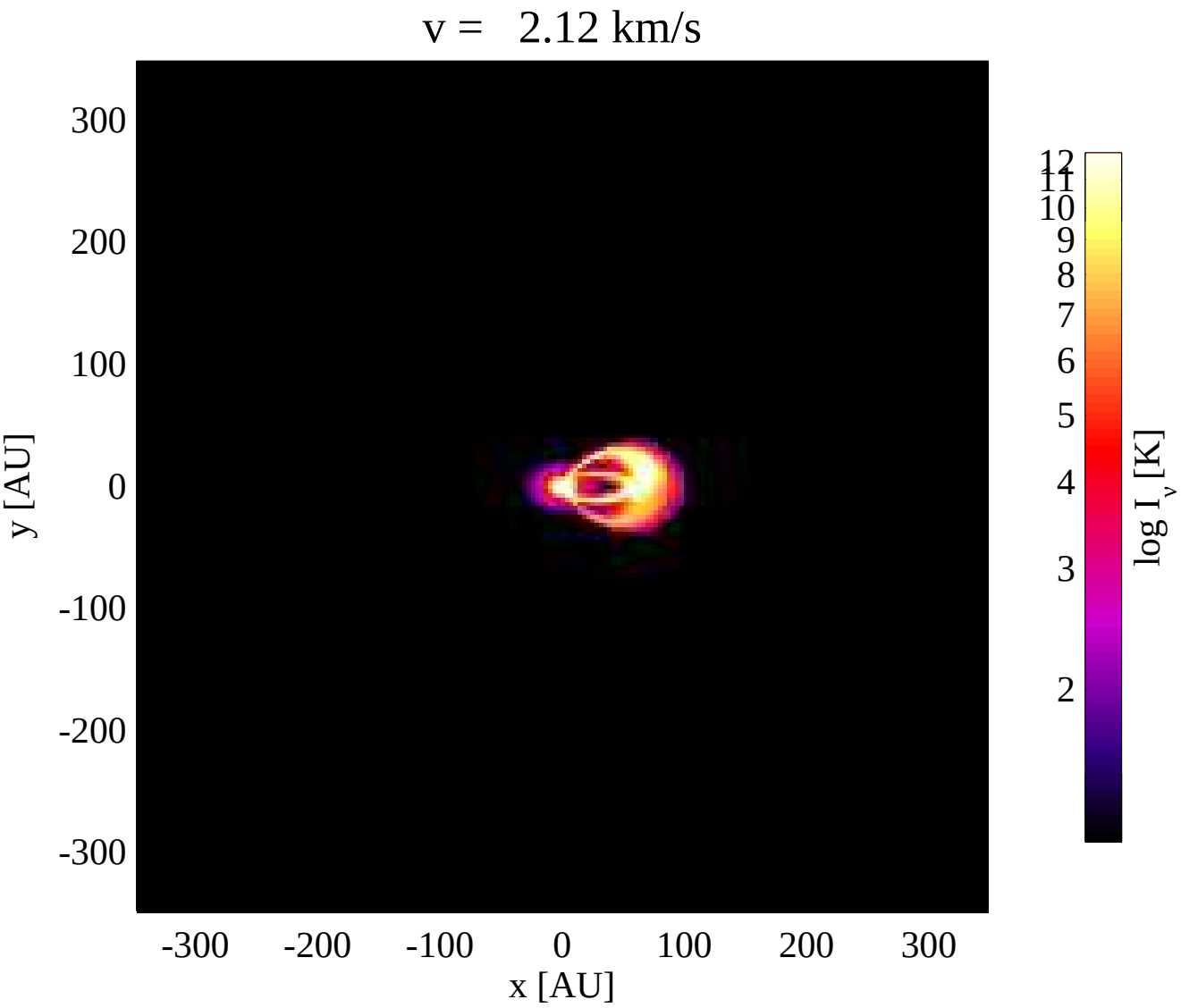

v = 0.34 km/s
300
200
100
0
-100
-200
-300
y [AU]
-300
-200
-100
0
100
200
300
x [AU]
12
11
10
9
8
7
6
5
4
3
2
log I_ν [K]

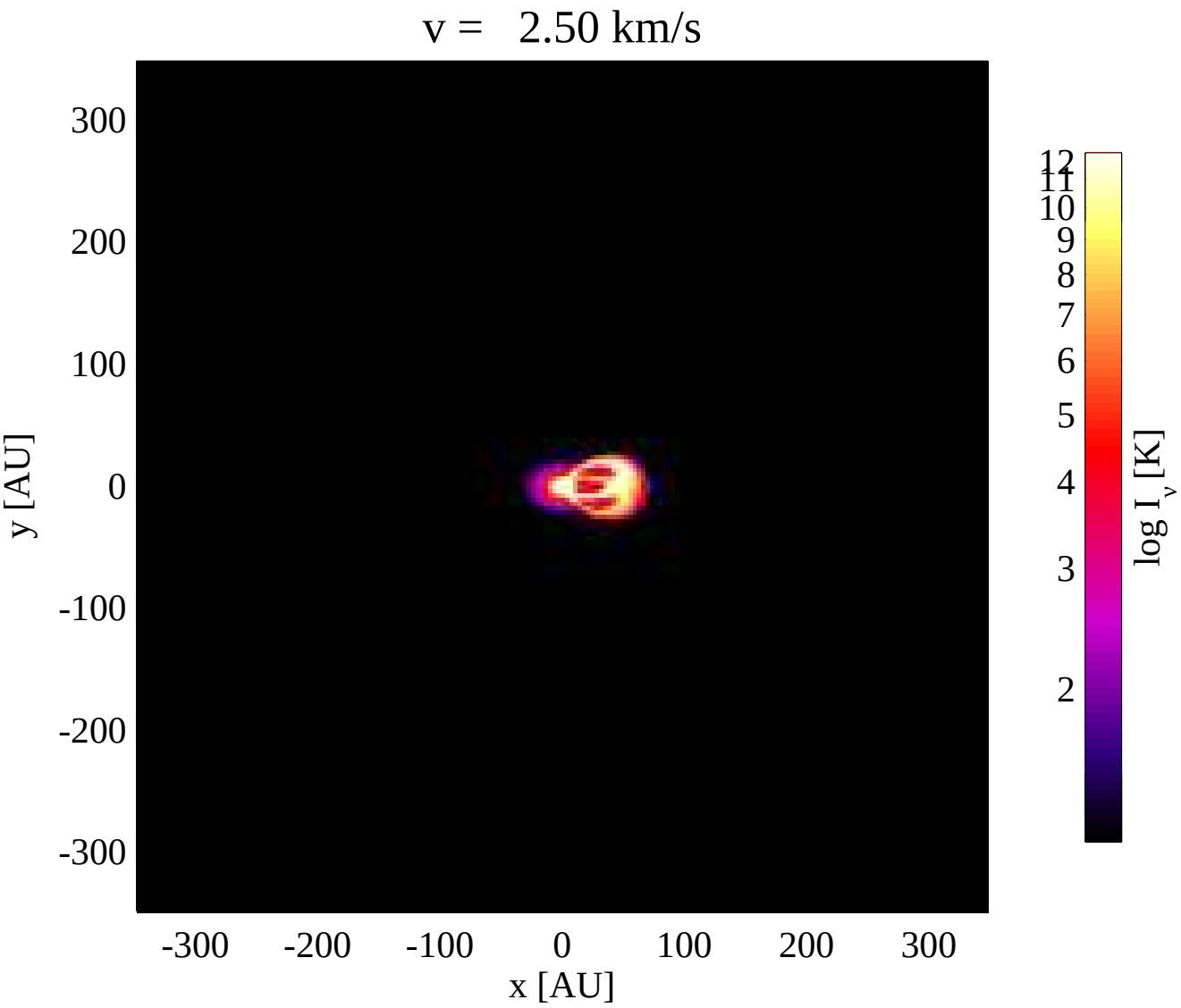

v = 0.69 km/s
300
200
100
0
-100
-200
-300
y [AU]
-300
-200
-100
0
100
200
300
x [AU]
12
11
10
9
8
7
6
5
4
3
2
log I_ν [K]

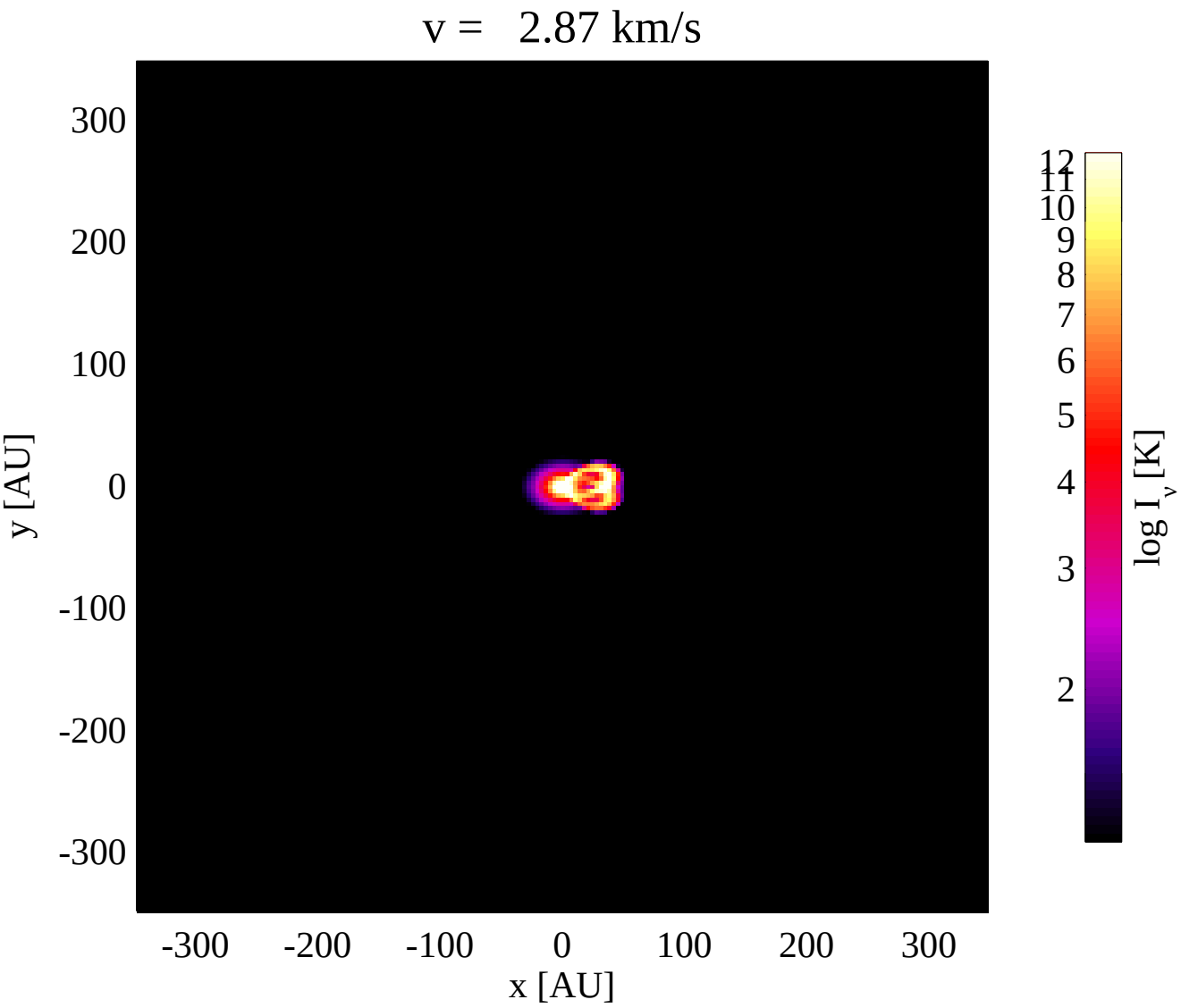

v = 1.04 km/s
300
200
100
0
-100
-200
-300
y [AU]
-300
-200
-100
0
100
200
300
x [AU]
12
11
10
9
8
7
6
5
4
3
2
log I_ν [K]

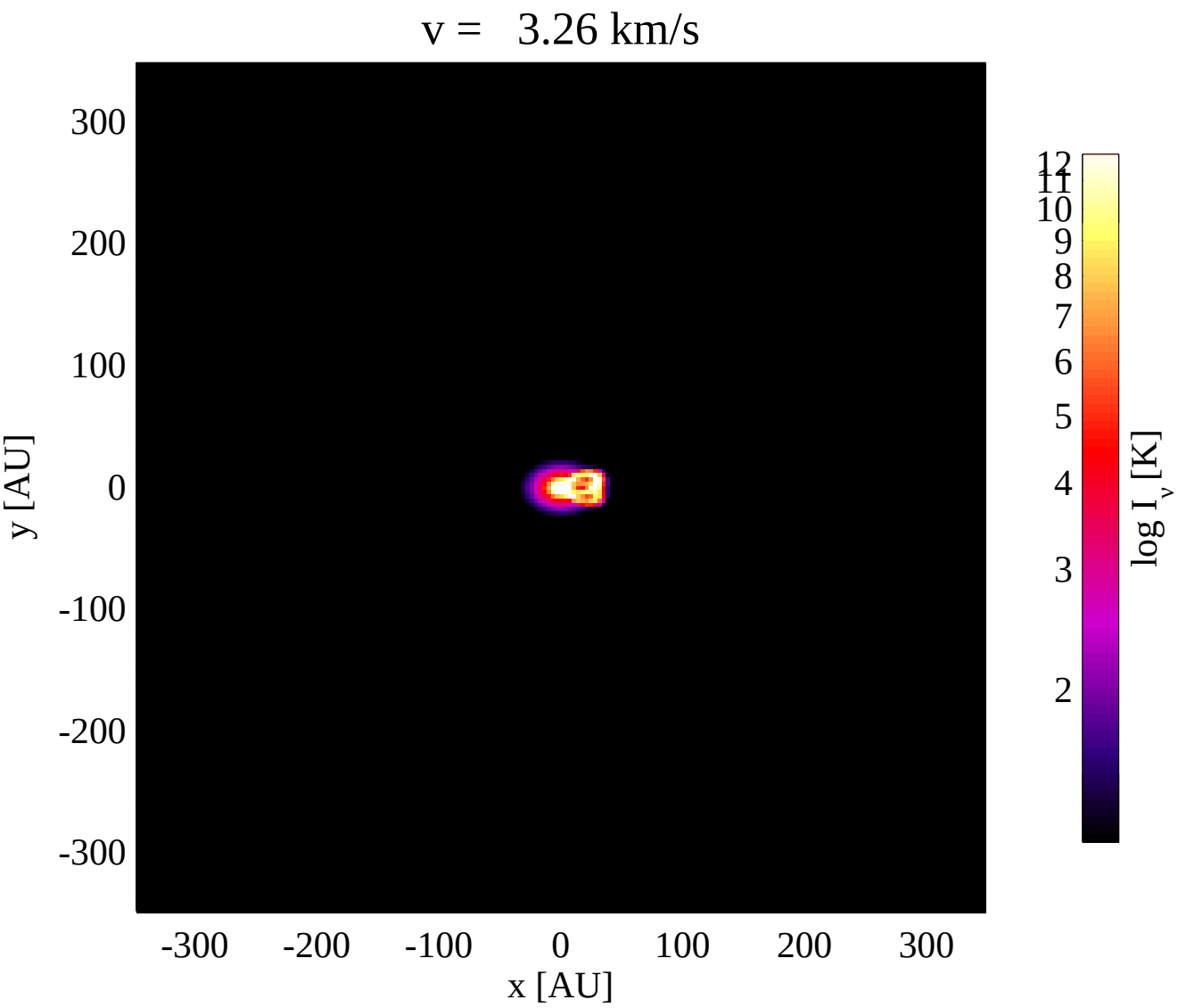

v = 1.40 km/s
300
200
100
0
-100
-200
-300
y [AU]
-300
-200
-100
0
100
200
300
x [AU]
12
11
10
9
8
7
6
5
4
3
2
log I_ν [K]

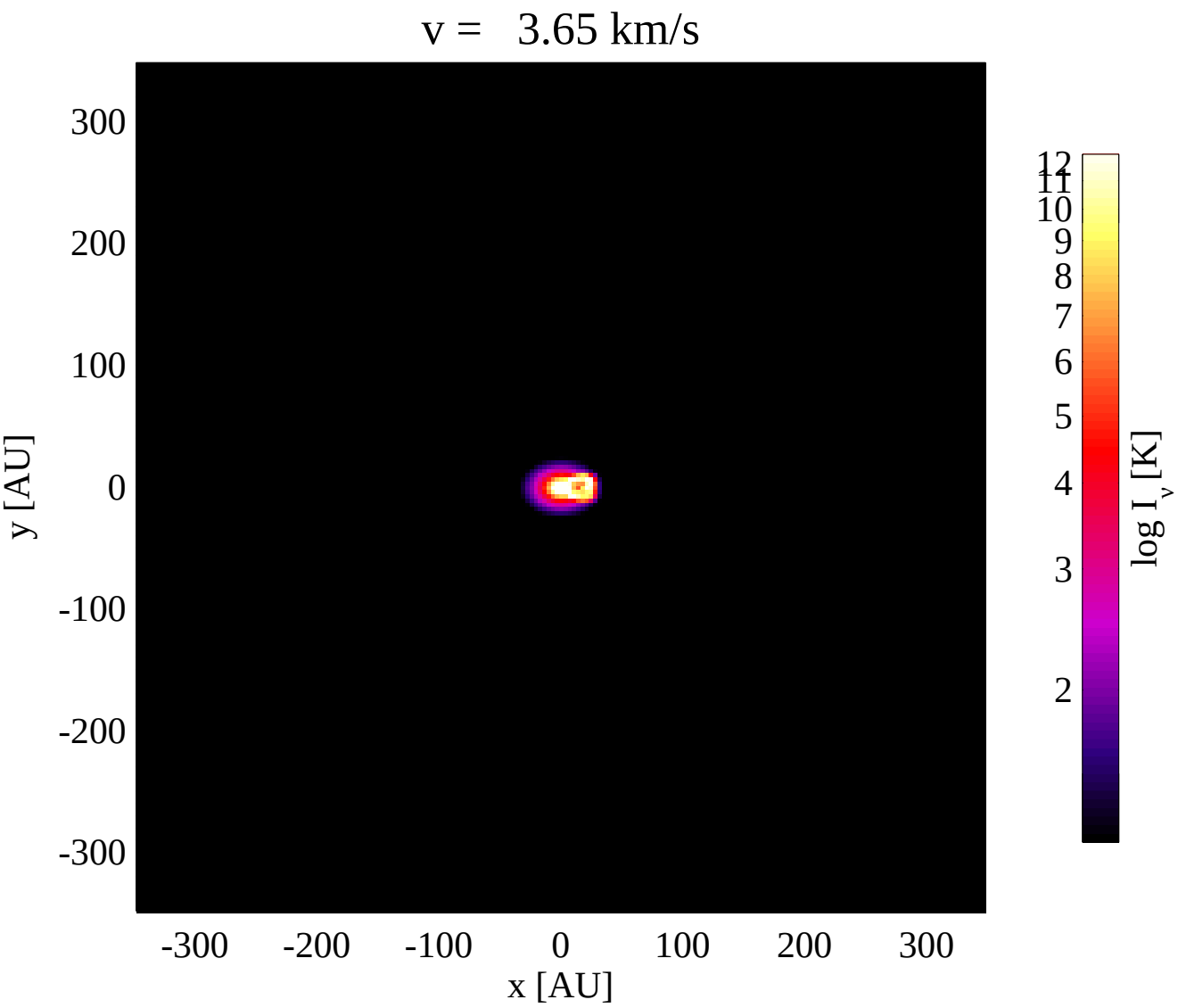

v = 1.76 km/s
300
200
100
0
-100
-200
-300
y [AU]
-300
-200
-100
0
100
200
300
x [AU]
12
11
10
9
8
7
6
5
4
3
2
log I_ν [K]

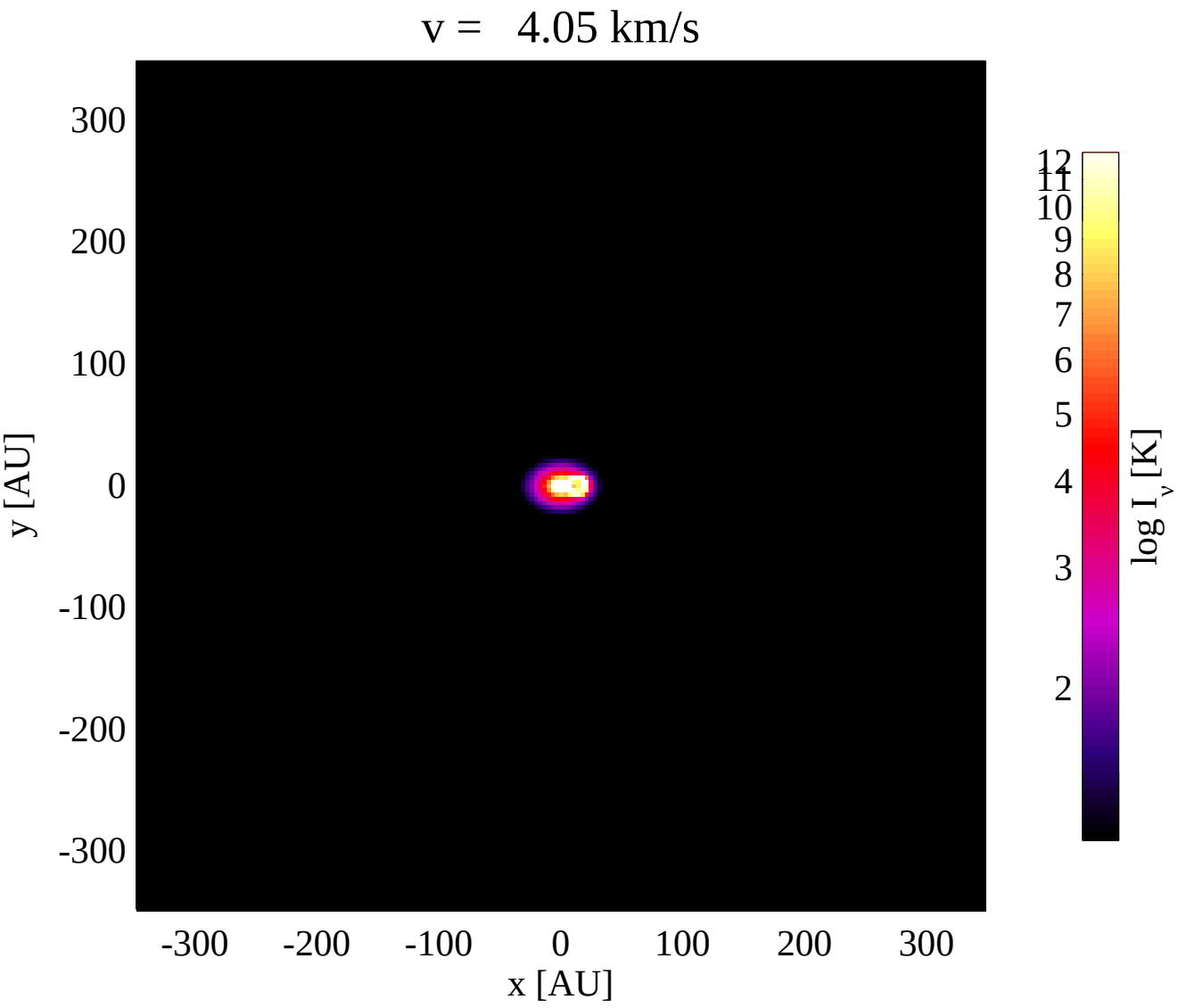

v = 2.12 km/s
300
200
100
0
-100
-200
-300
y [AU]
-300
-200
-100
0
100
200
300
x [AU]
12
11
10
9
8
7
6
5
4
3
2
log I_ν [K]

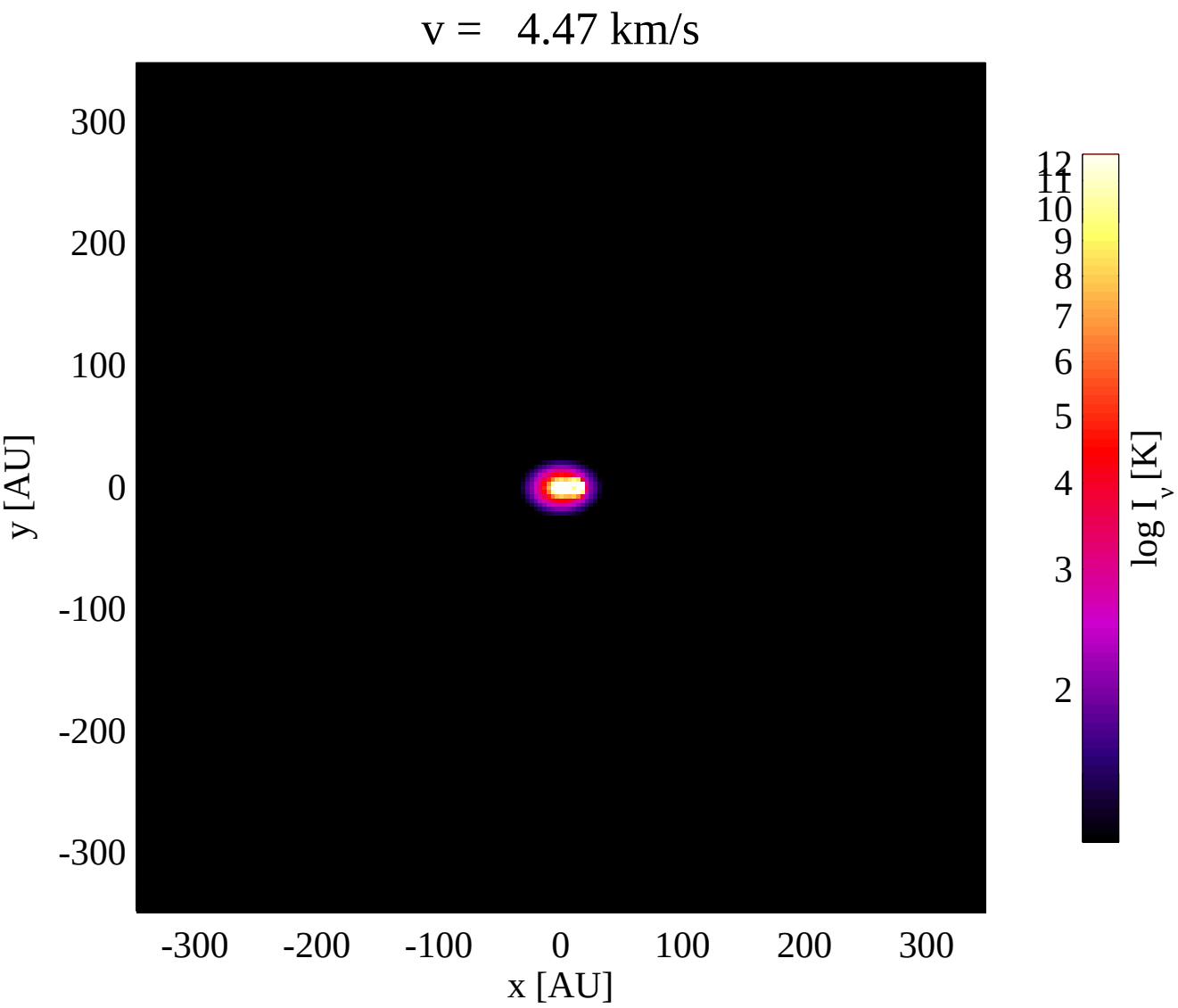

v = 2.50 km/s
300
200
100
0
-100
-200
-300
y [AU]
-300
-200
-100
0
100
200
300
x [AU]
12
11
10
9
8
7
6
5
4
3
2
log I_ν [K]

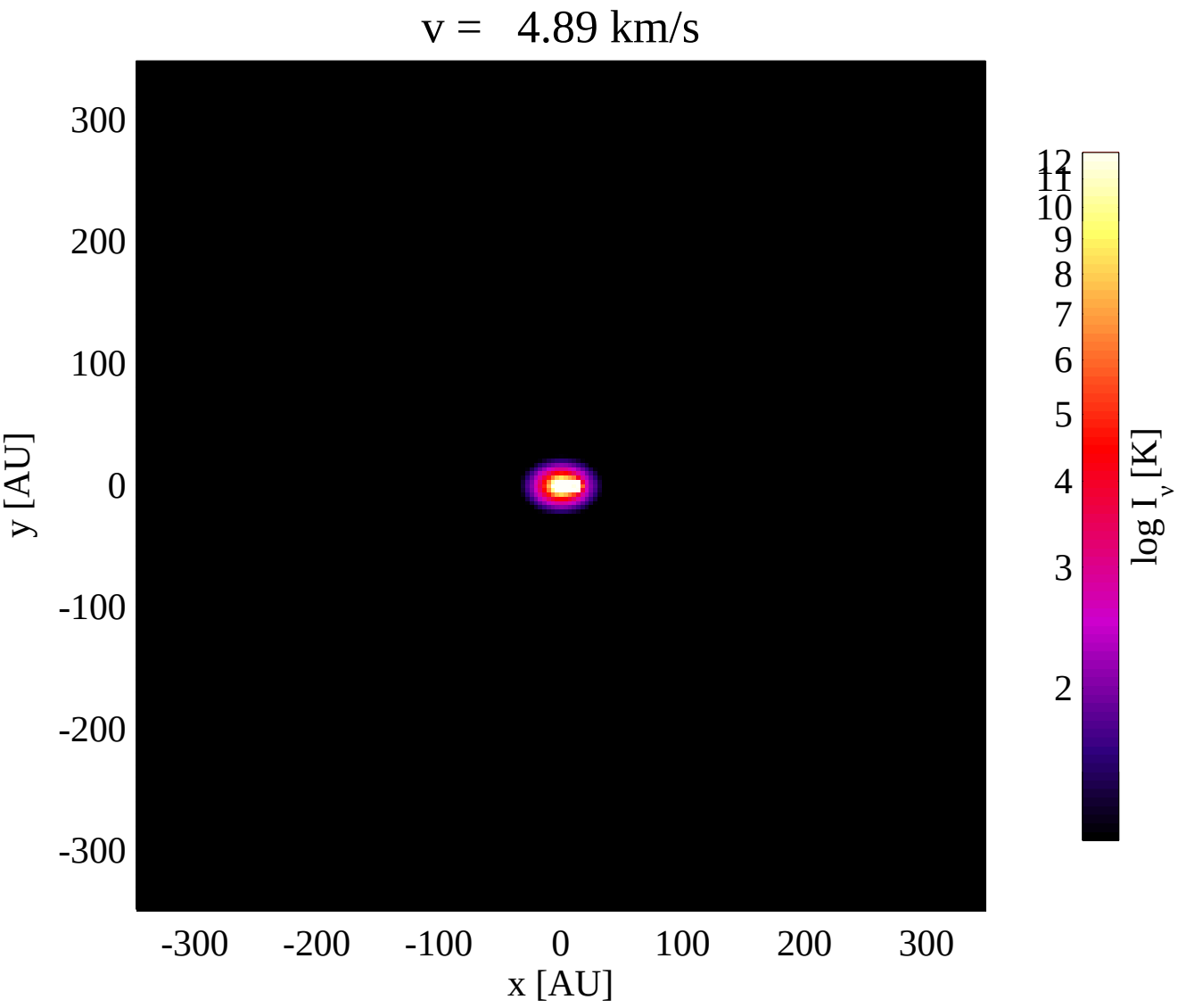

v = 2.87 km/s
300
200
100
0
-100
-200
-300
y [AU]
-300
-200
-100
0
100
200
300
x [AU]
12
11
10
9
8
7
6
5
4
3
2
log I_ν [K]

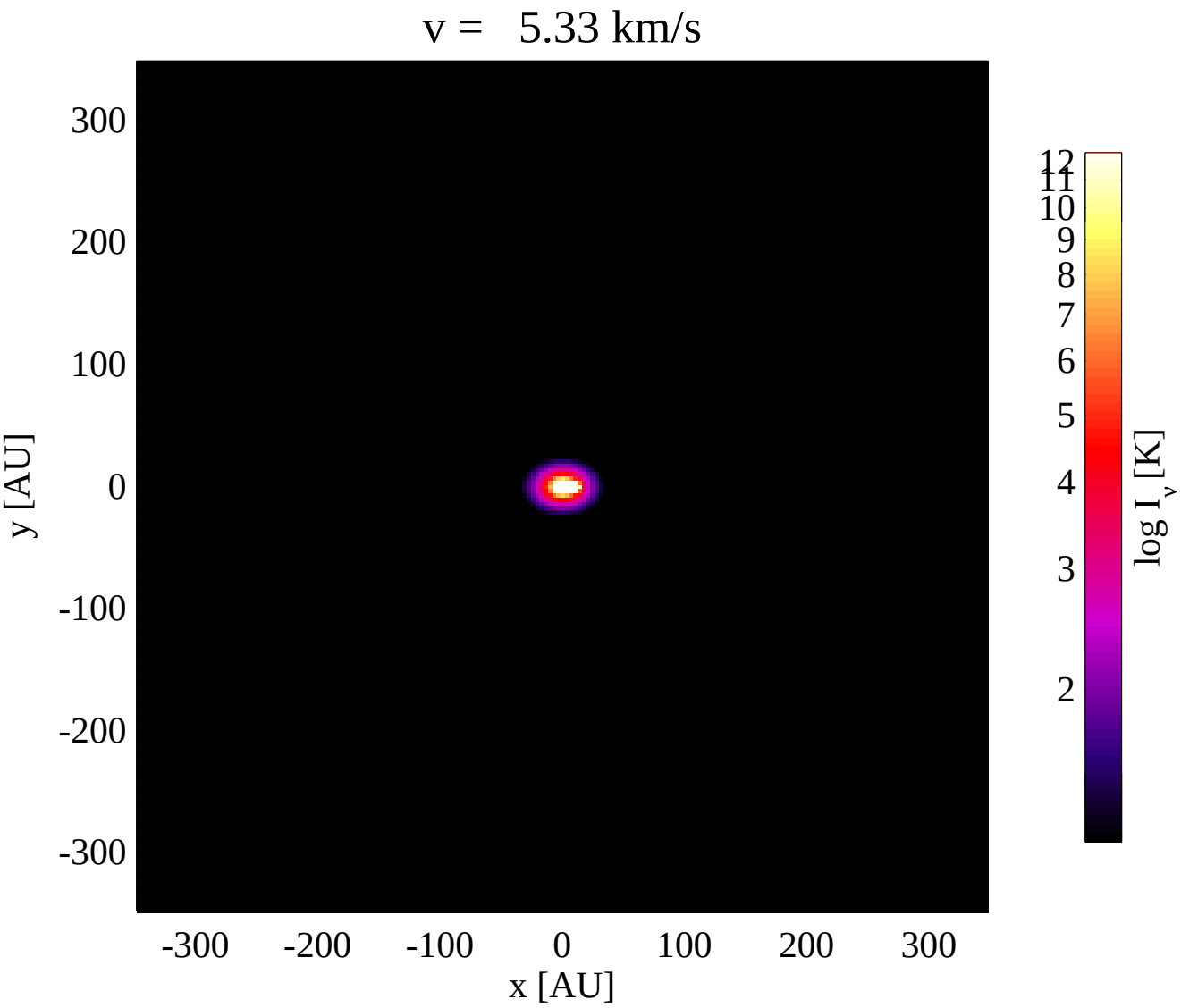

v = 3.26 km/s
300
200
100
0
-100
-200
-300
y [AU]
-300
-200
-100
0
100
200
300
x [AU]
12
11
10
9
8
7
6
5
4
3
2
log I_ν [K]

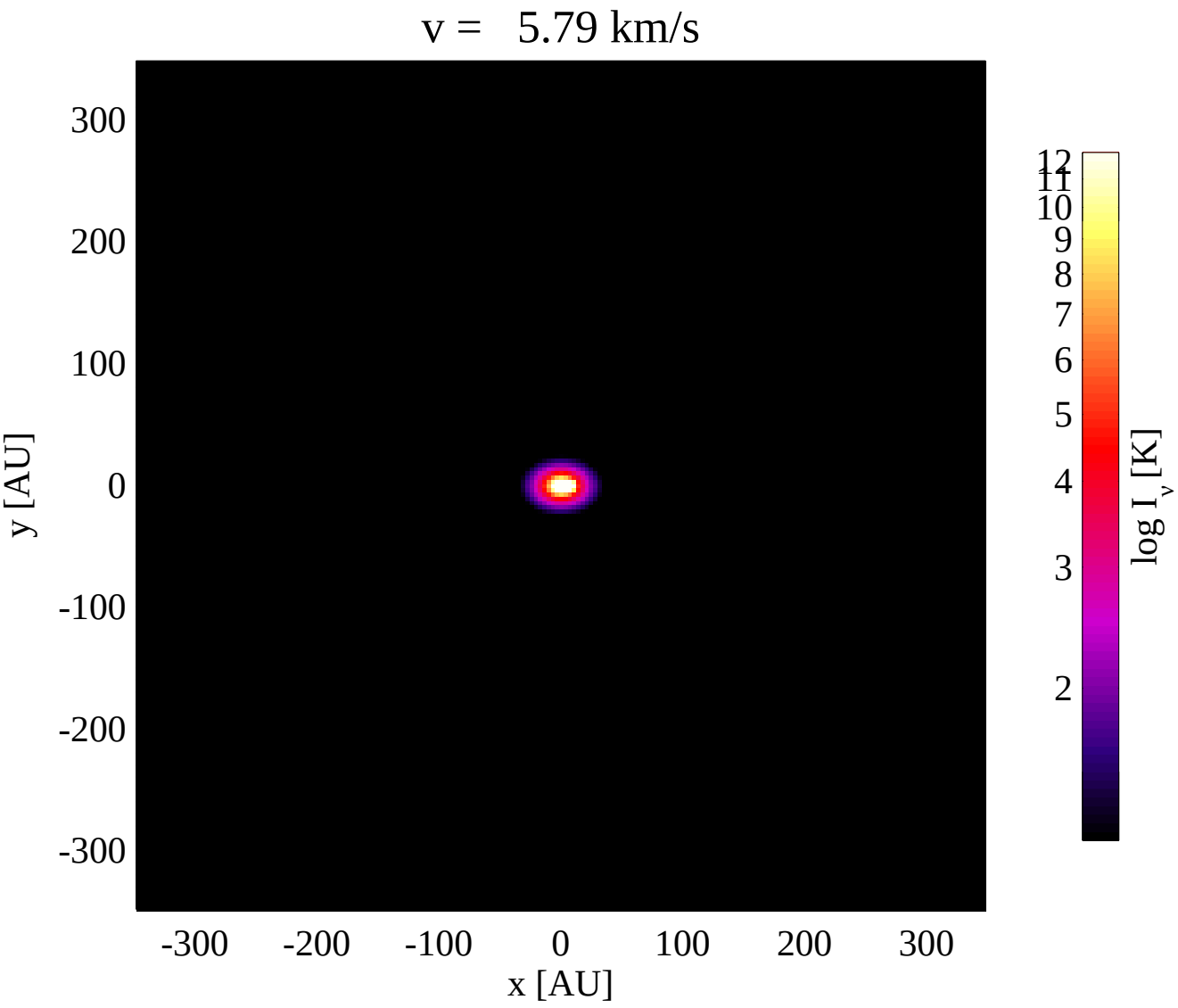

v = 3.65 km/s
300
200
100
0
-100
-200
-300
y [AU]
-300
-200
-100
0
100
200
300
x [AU]
12
11
10
9
8
7
6
5
4
3
2
log I_ν [K]

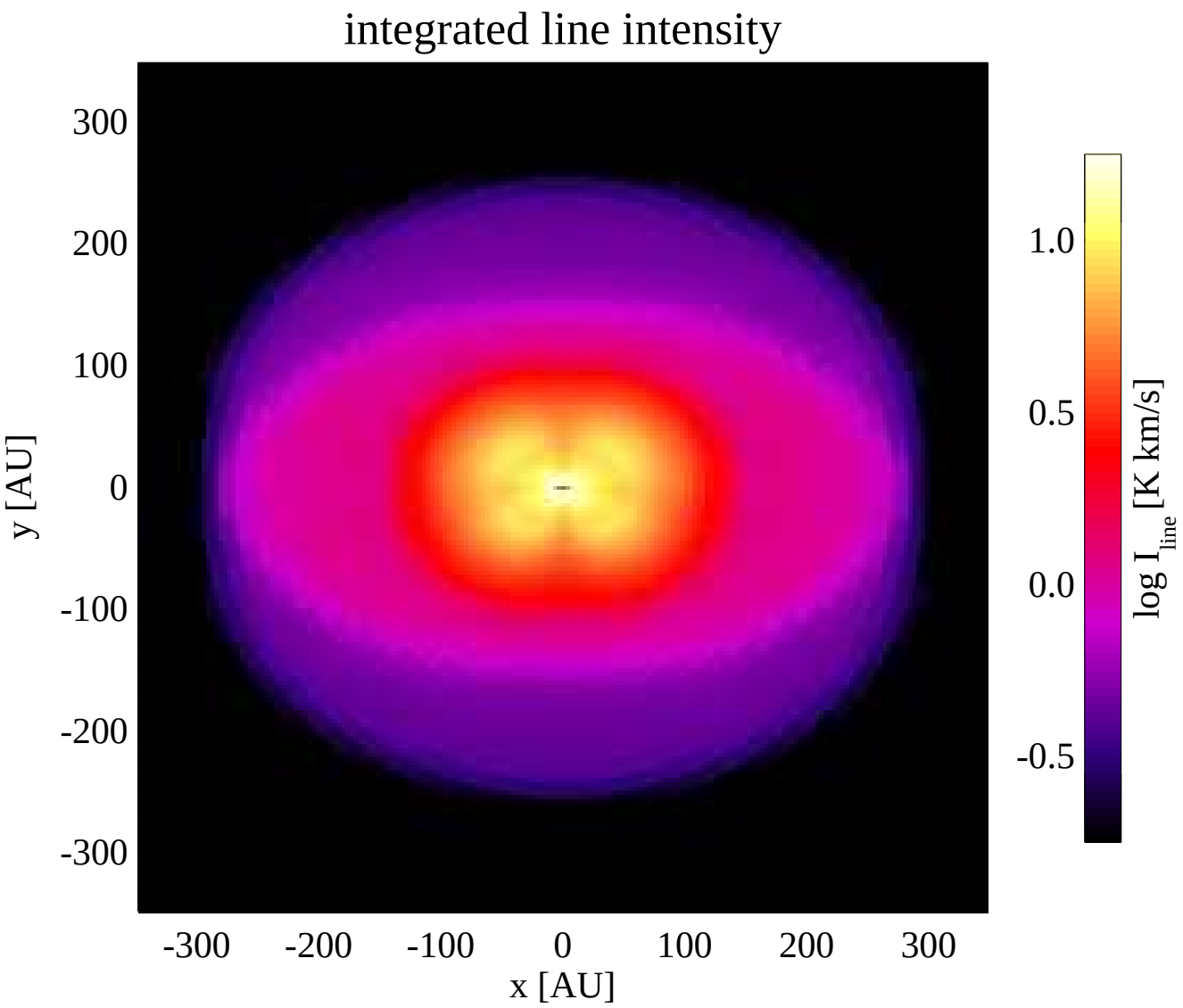

v = 4.05 km/s
300
200
100
0
-100
-200
-300
y [AU]
-300
-200
-100
0
100
200
300
x [AU]
12
11
10
9
8
7
6
5
4
3
2
log I_ν [K]

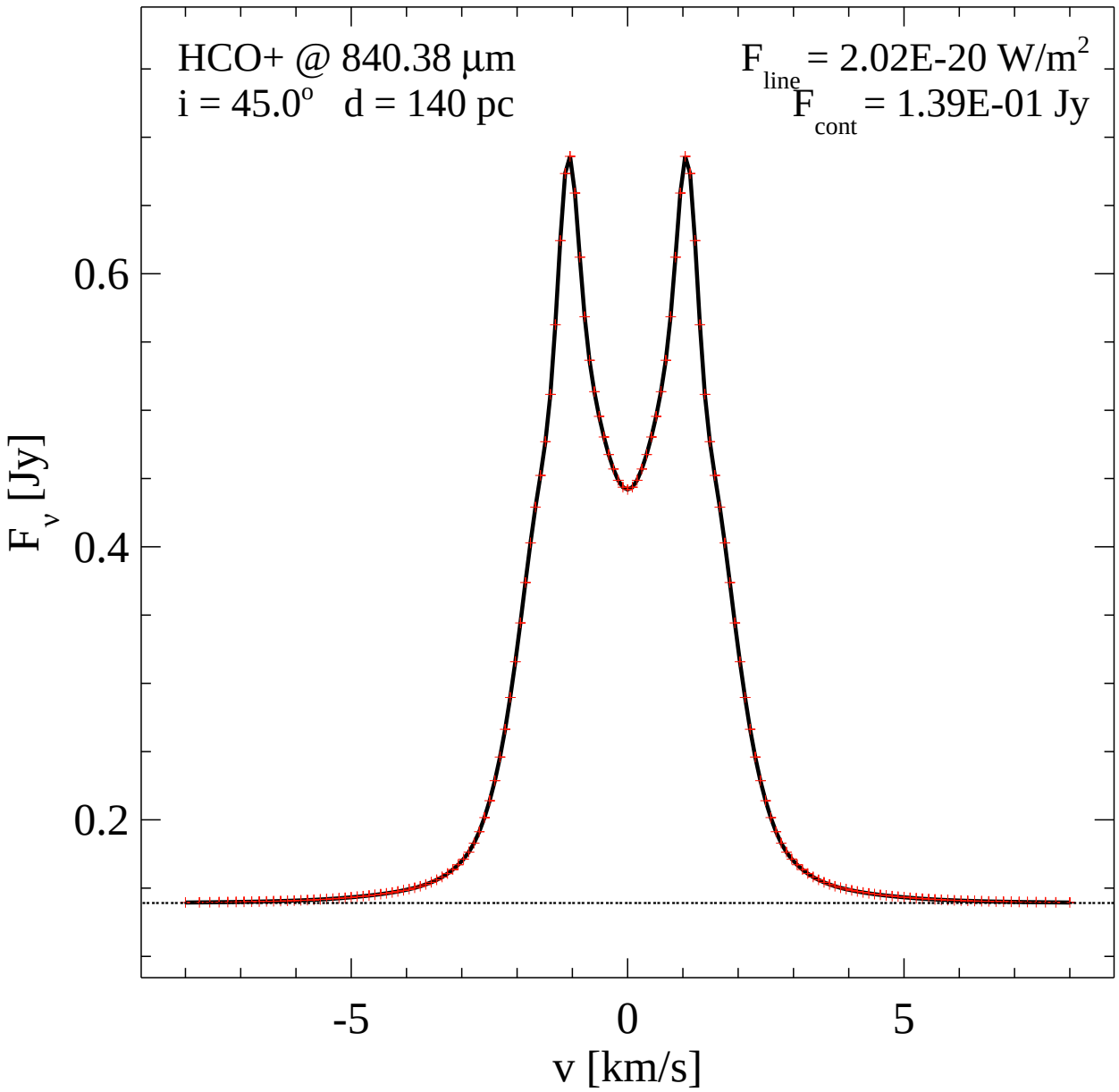

v = 4.47 km/s
300
200
100
0
-100
-200
-300
y [AU]
-300
-200
-100
0
100
200
300
x [AU]
12
11
10
9
8
7
6
5
4
3
2
log I_ν [K]


v = 4.89 km/s
300
200
100
0
-100
-200
-300
y [AU]
-300
-200
-100
0
100
200
300
x [AU]
12
11
10
9
8
7
6
5
4
3
2
log I_ν [K]


v = 5.33 km/s
300
200
100
0
-100
-200
-300
y [AU]
-300
-200
-100
0
100
200
300
x [AU]
12
11
10
9
8
7
6
5
4
3
2
log I_ν [K]


v = 5.79 km/s
300
200
100
0
-100
-200
-300
y [AU]
-300
-200
-100
0
100
200
300
x [AU]
12
11
10
9
8
7
6
5
4
3
2
log I_ν [K]


integrated line intensity
300
200
100
0
-100
-200
-300
y [AU]
-300
-200
-100
0
100
200
300
x [AU]
1.0
0.5
0.0
-0.5
log I_line [K km/s]


HCO+ @ 840.38 μm
i = 45.0° d = 140 pc
F line = 2.02E-20 W/m2
F cont = 1.39E-01 Jy
0.6
0.4
0.2
F v [Jy]
-5
0
5
v [km/s]