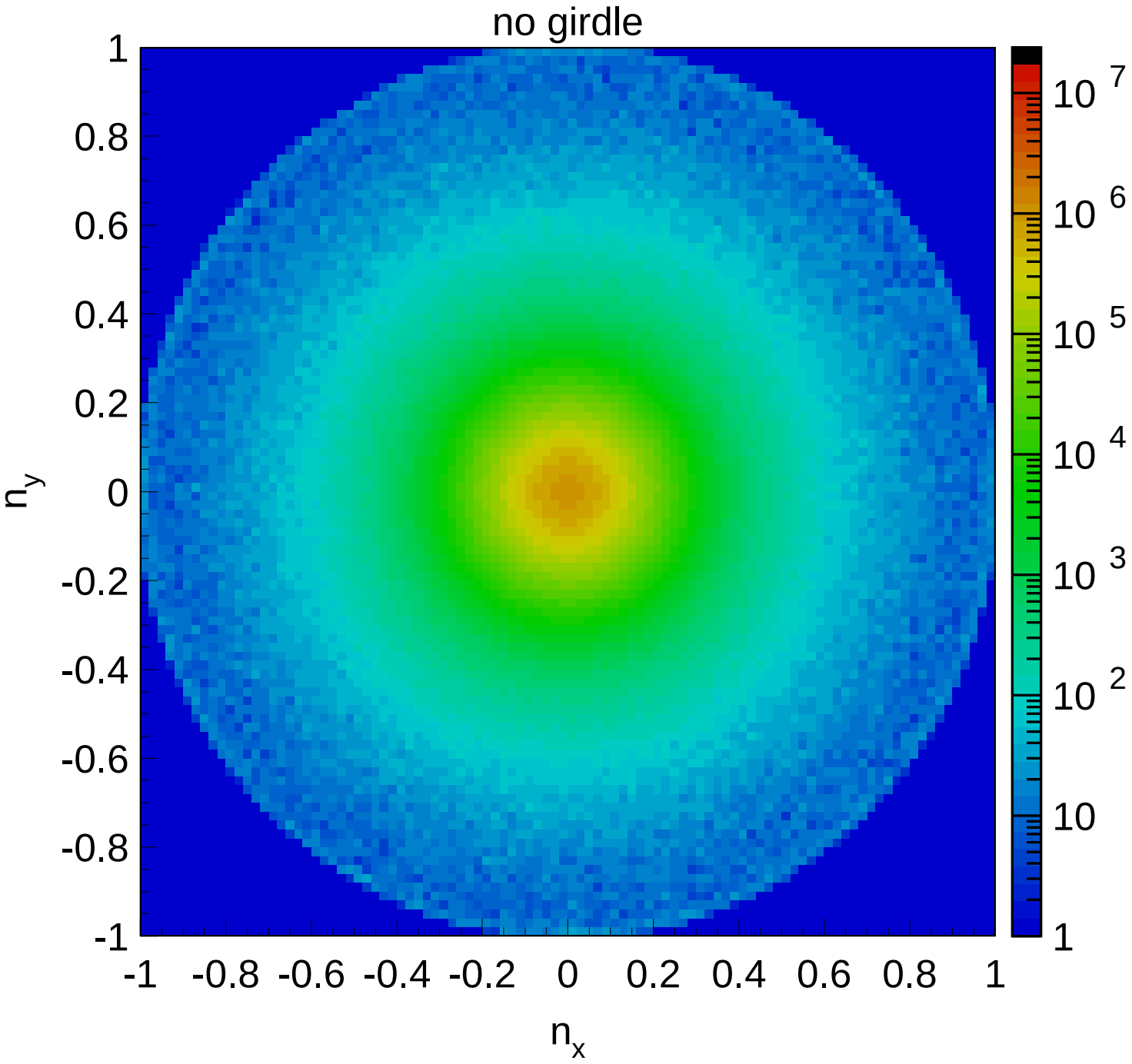
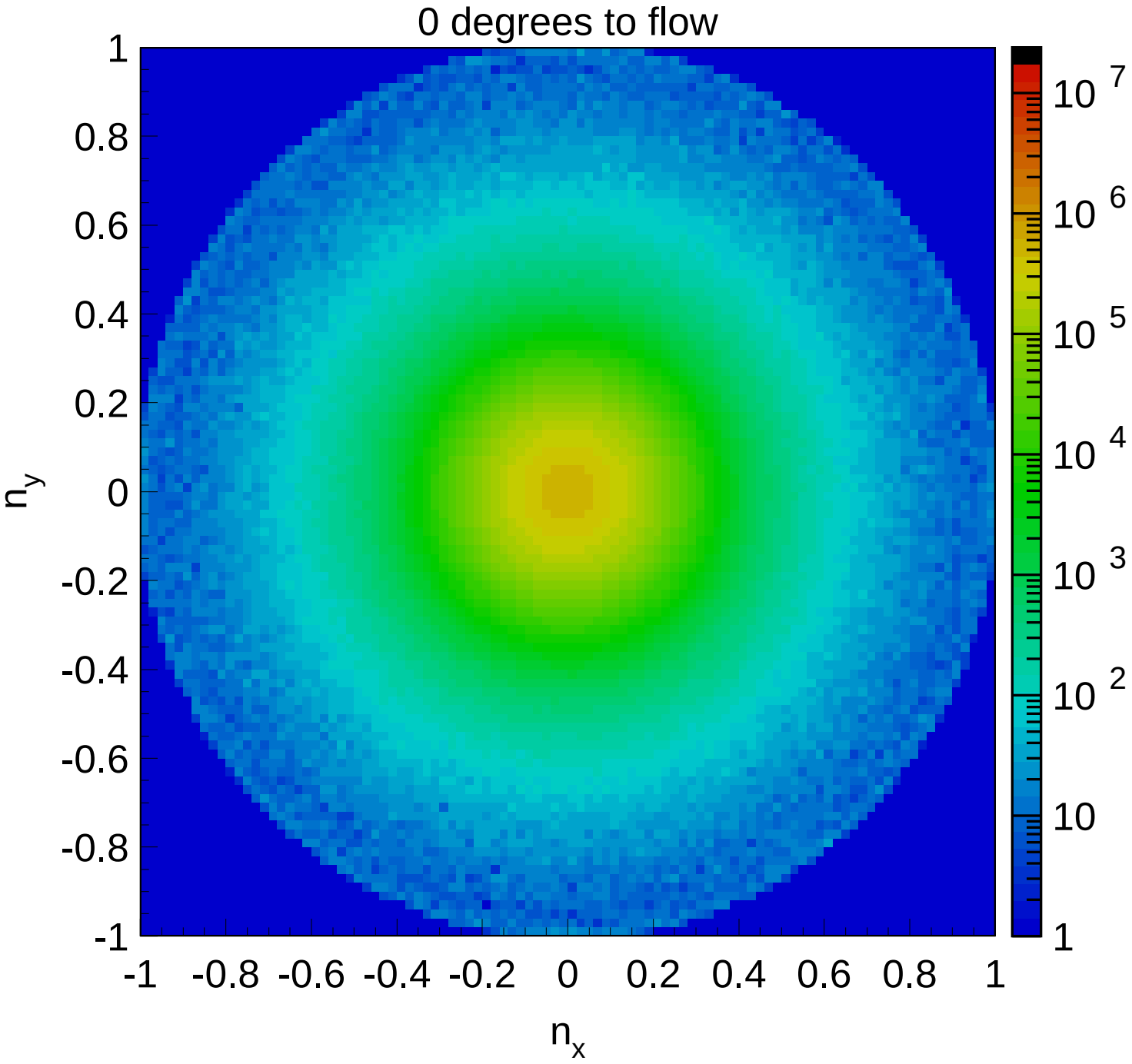
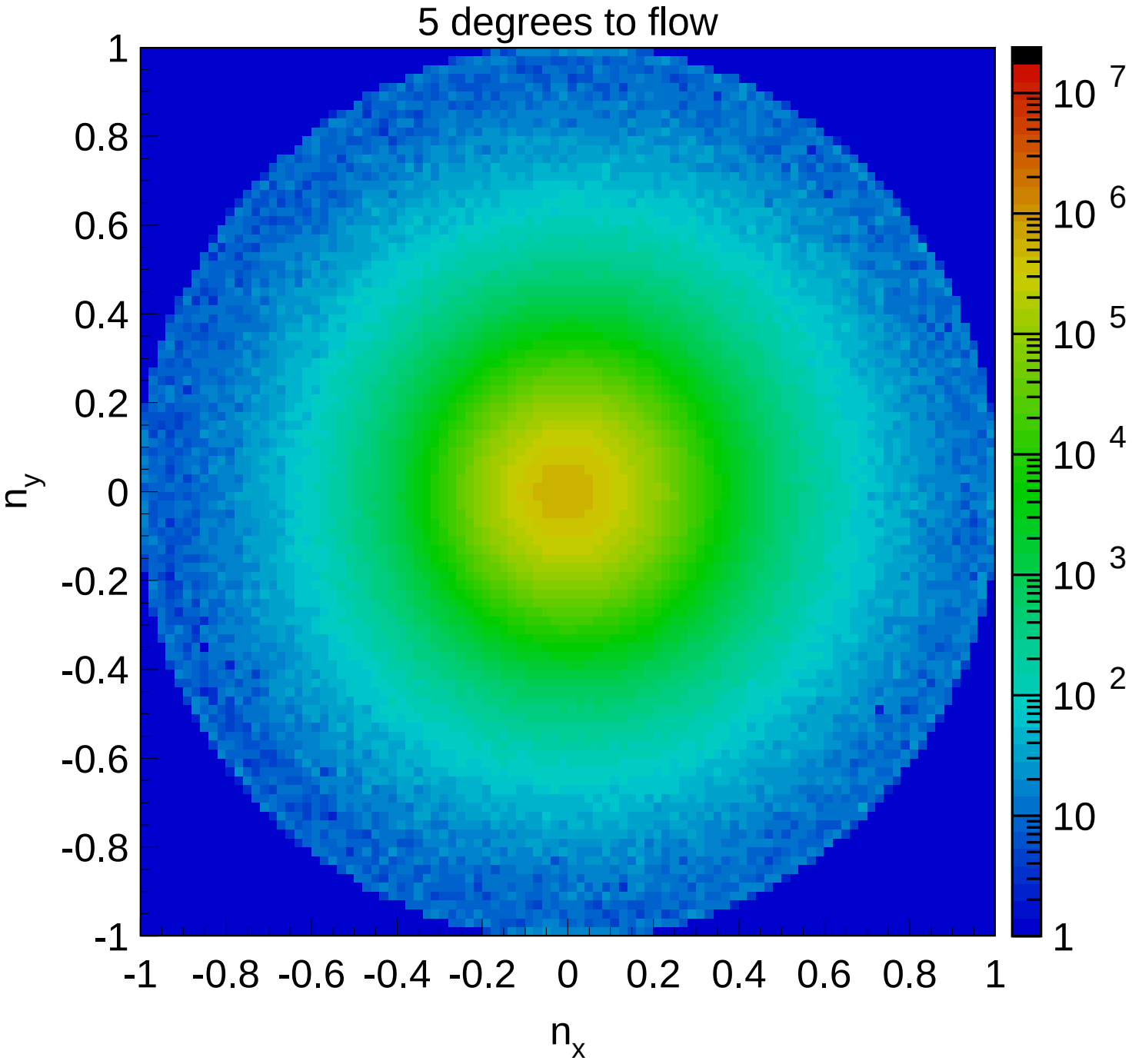
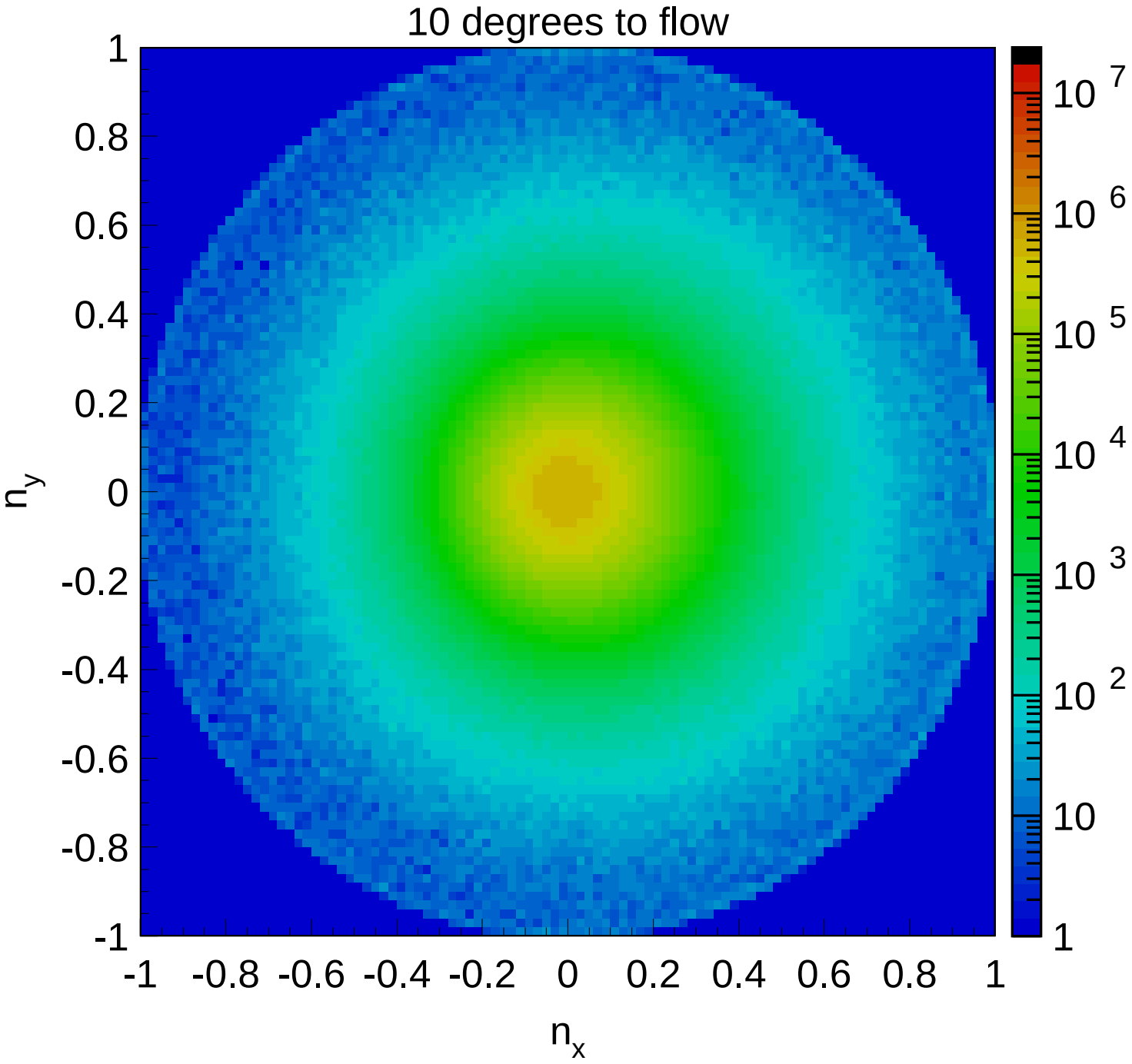
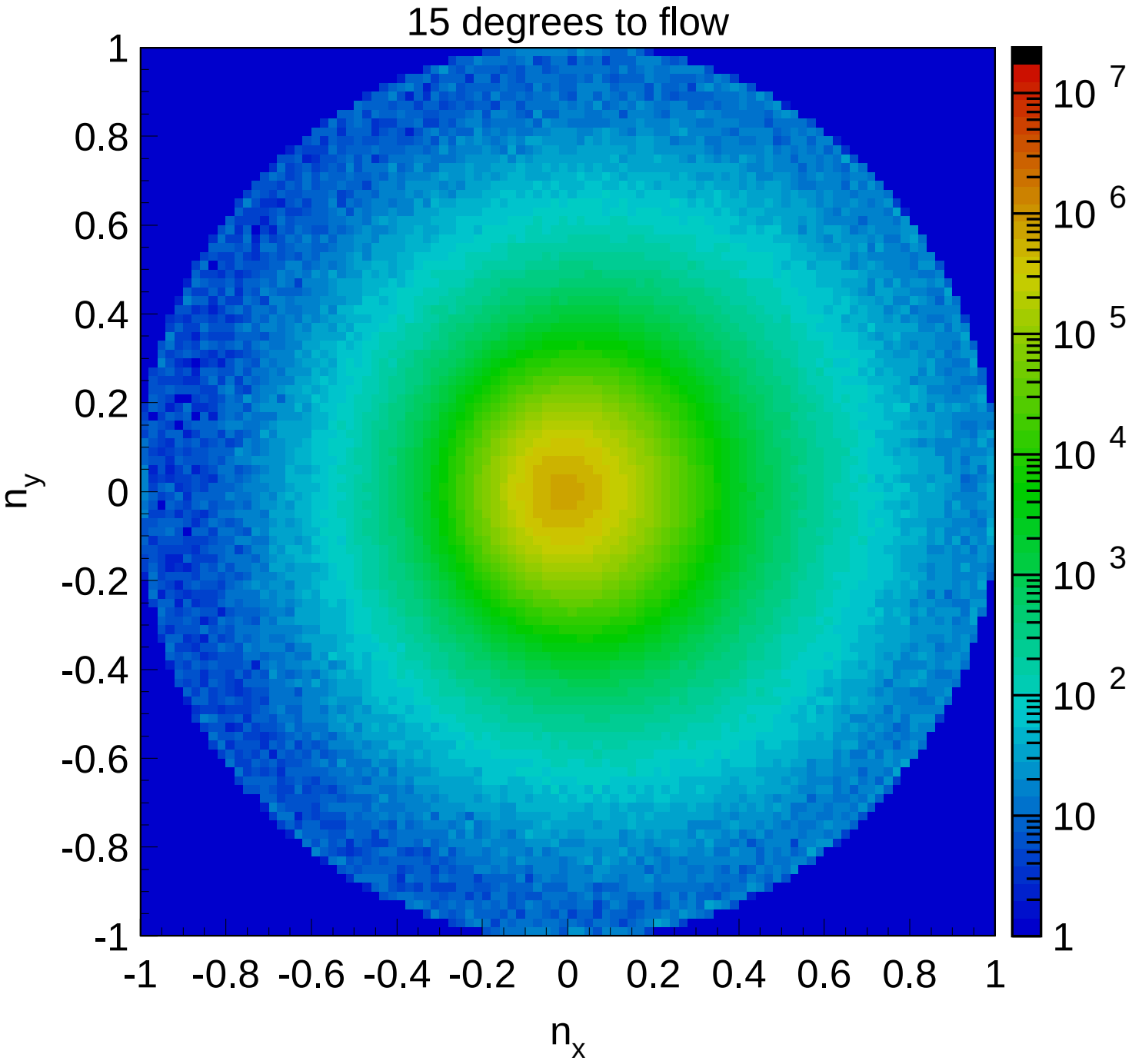
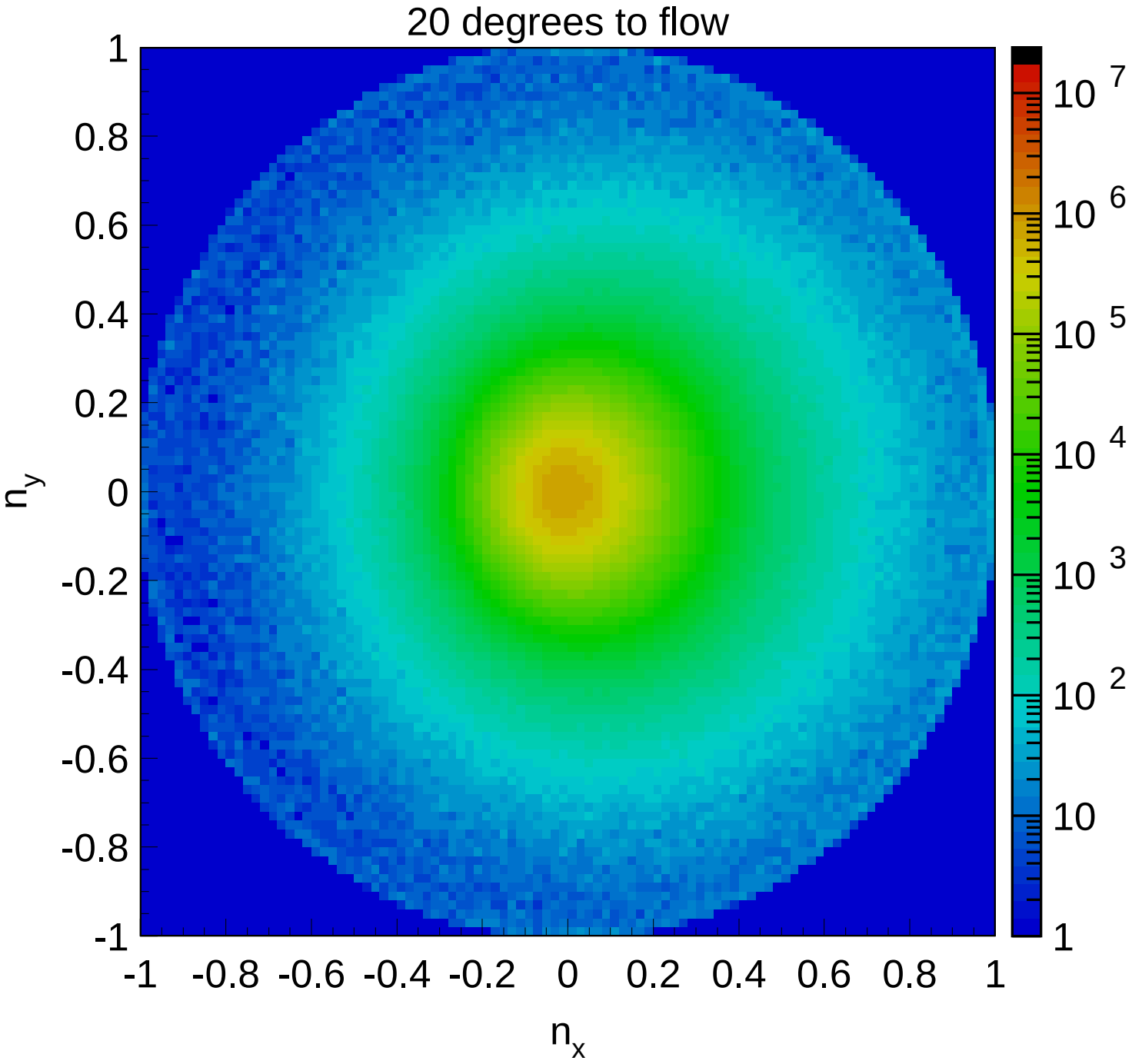

no girdle
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
n_y
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1
n_x
10^7
10^6
10^5
10^4
10^3
10^2
10
1

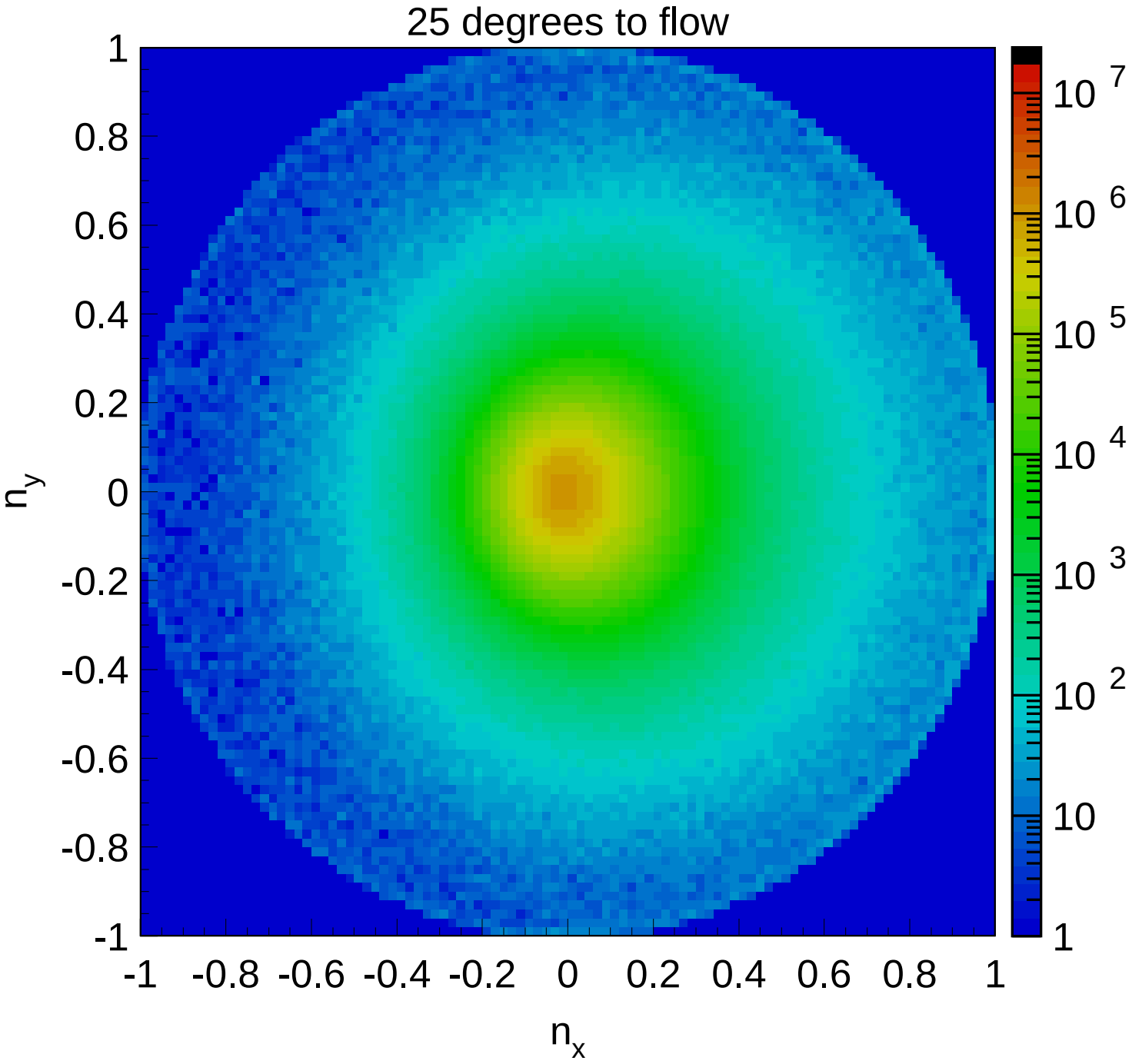

0 degrees to flow
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
n_y
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1
n_x
10^7
10^6
10^5
10^4
10^3
10^2
10
1

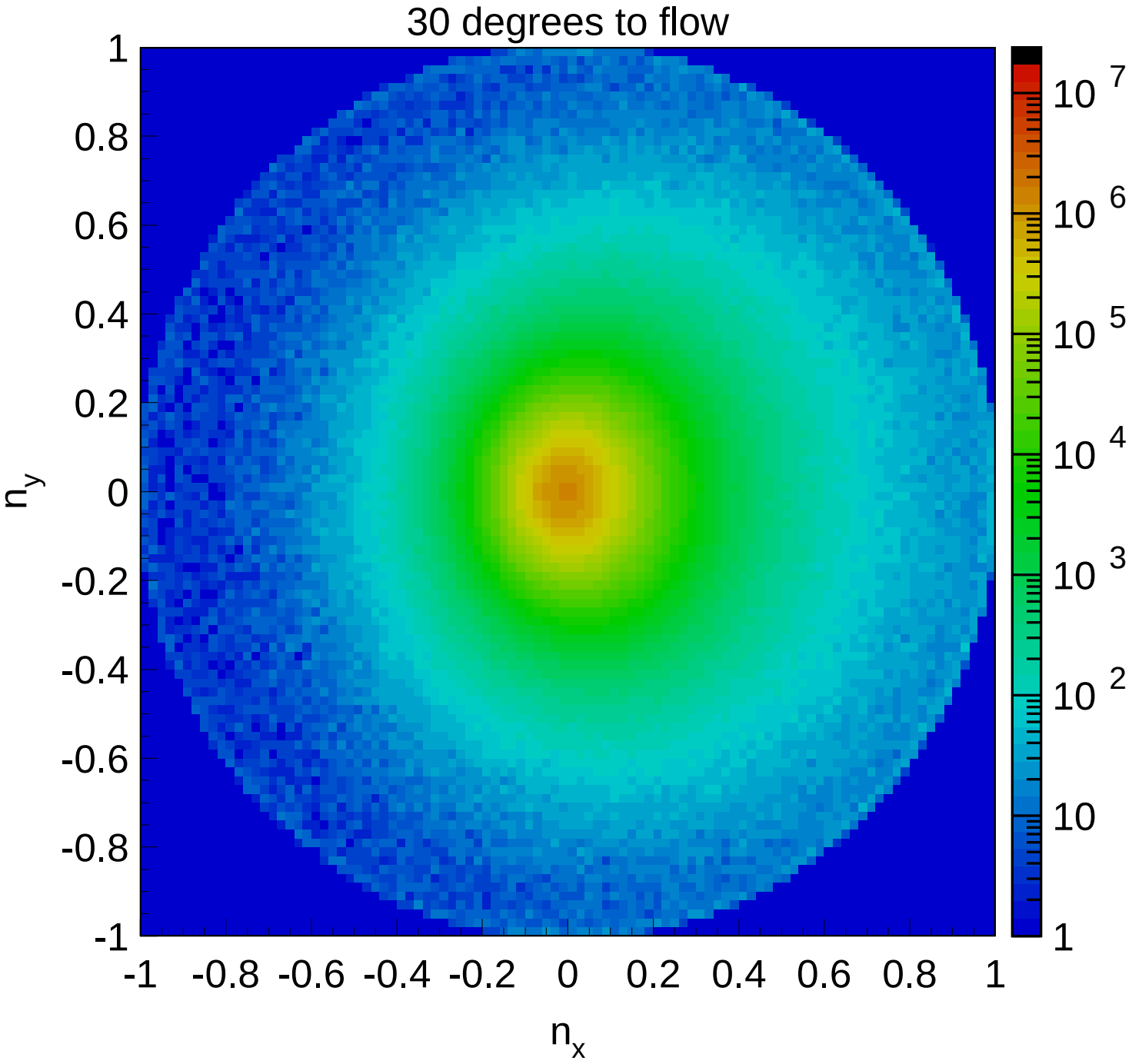

5 degrees to flow
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
n_y
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1
n_x
10^7
10^6
10^5
10^4
10^3
10^2
10
1

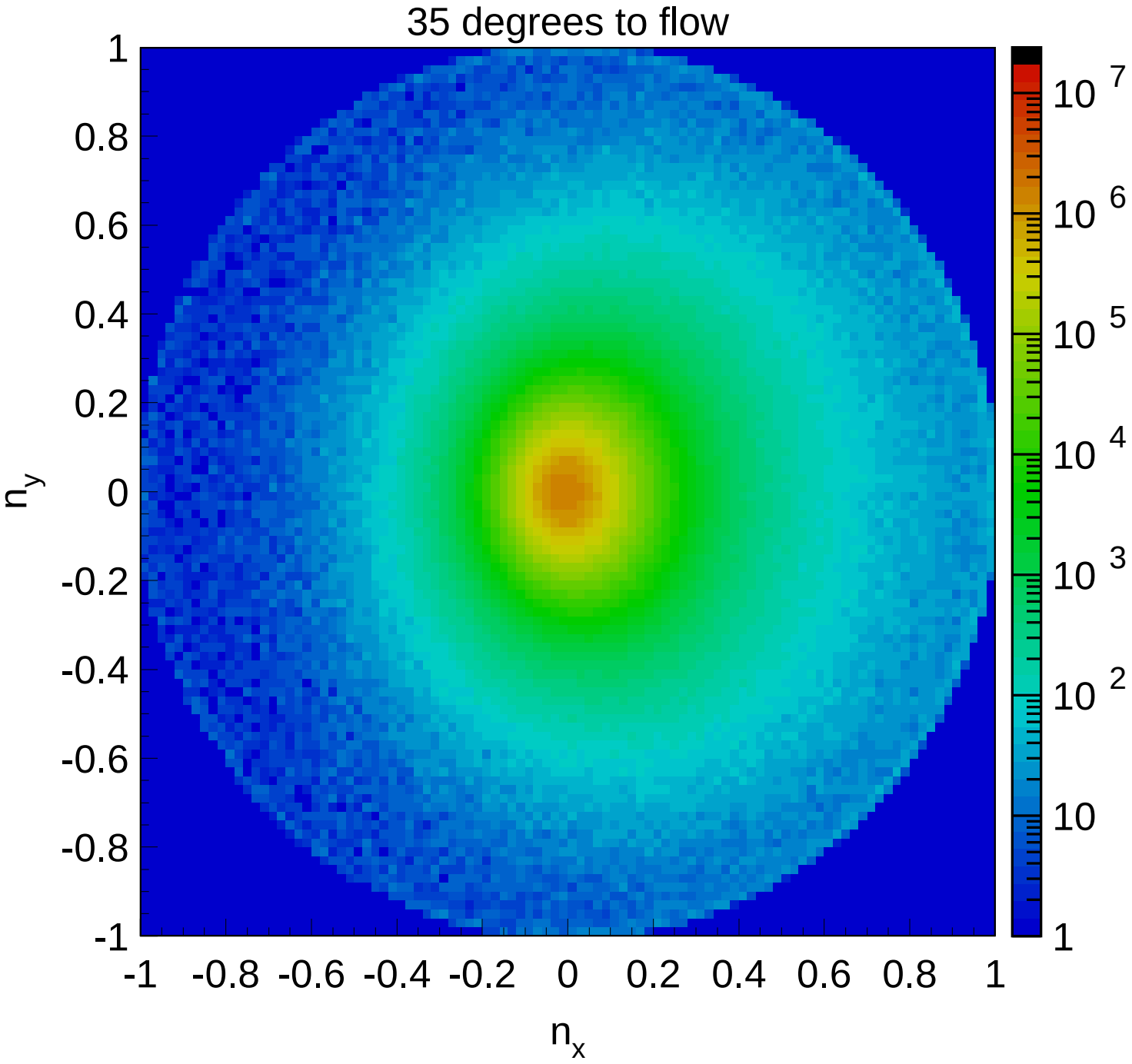

10 degrees to flow
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
n_y
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1
n_x
10^7
10^6
10^5
10^4
10^3
10^2
10
1

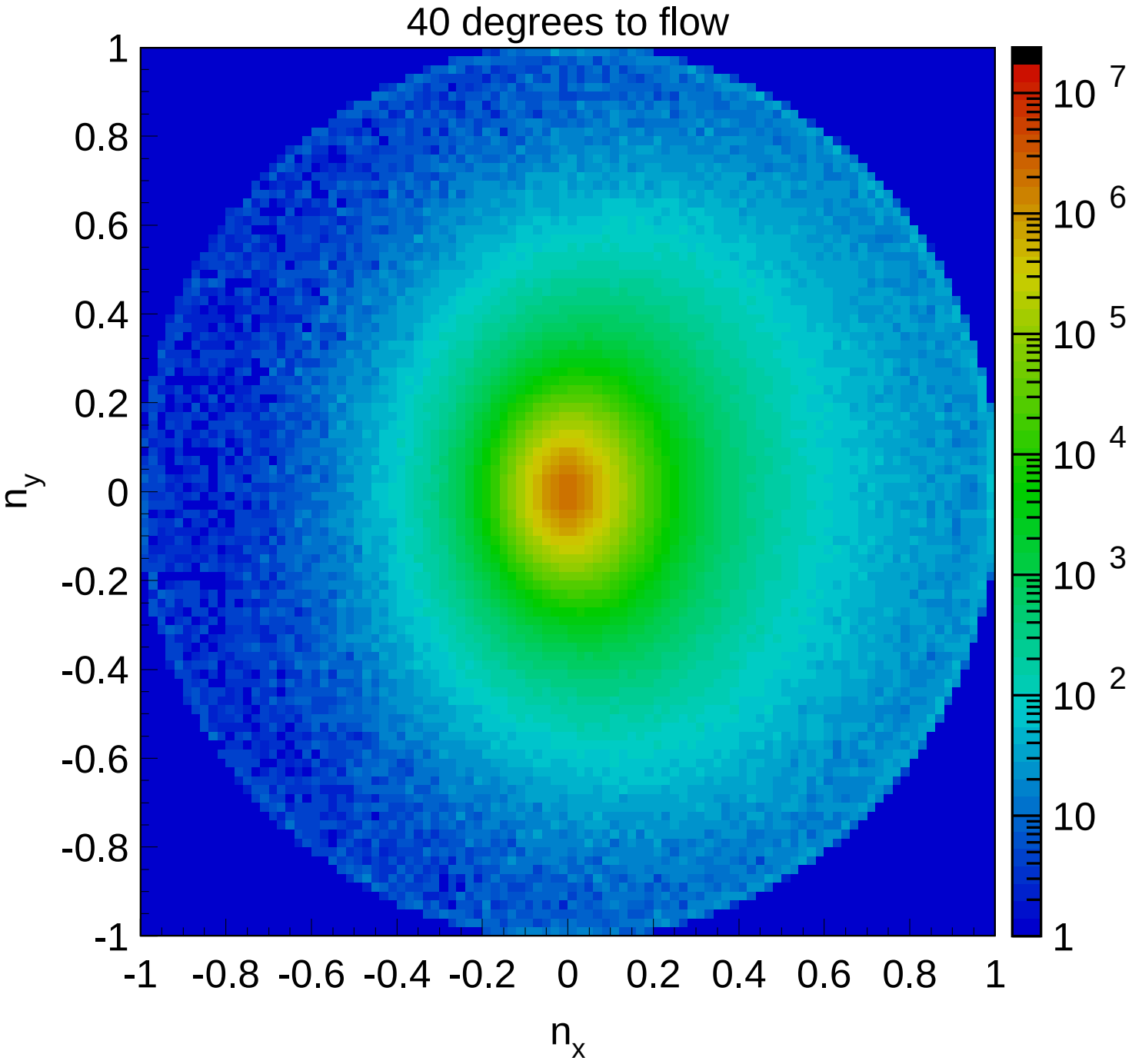

15 degrees to flow
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
n_y
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1
n_x
10^7
10^6
10^5
10^4
10^3
10^2
10
1

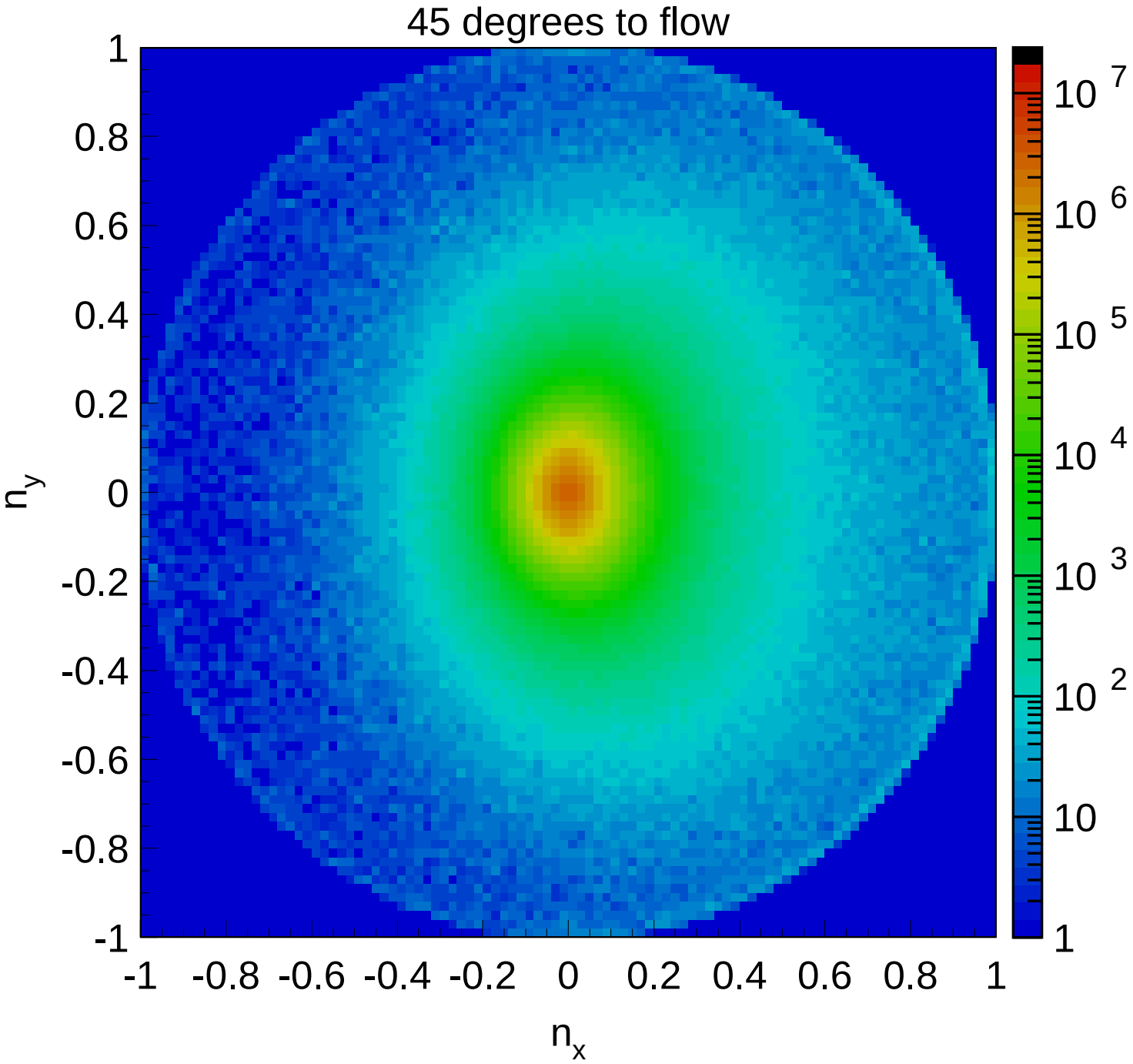

20 degrees to flow
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
n_y
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1
n_x
10^7
10^6
10^5
10^4
10^3
10^2
10
1

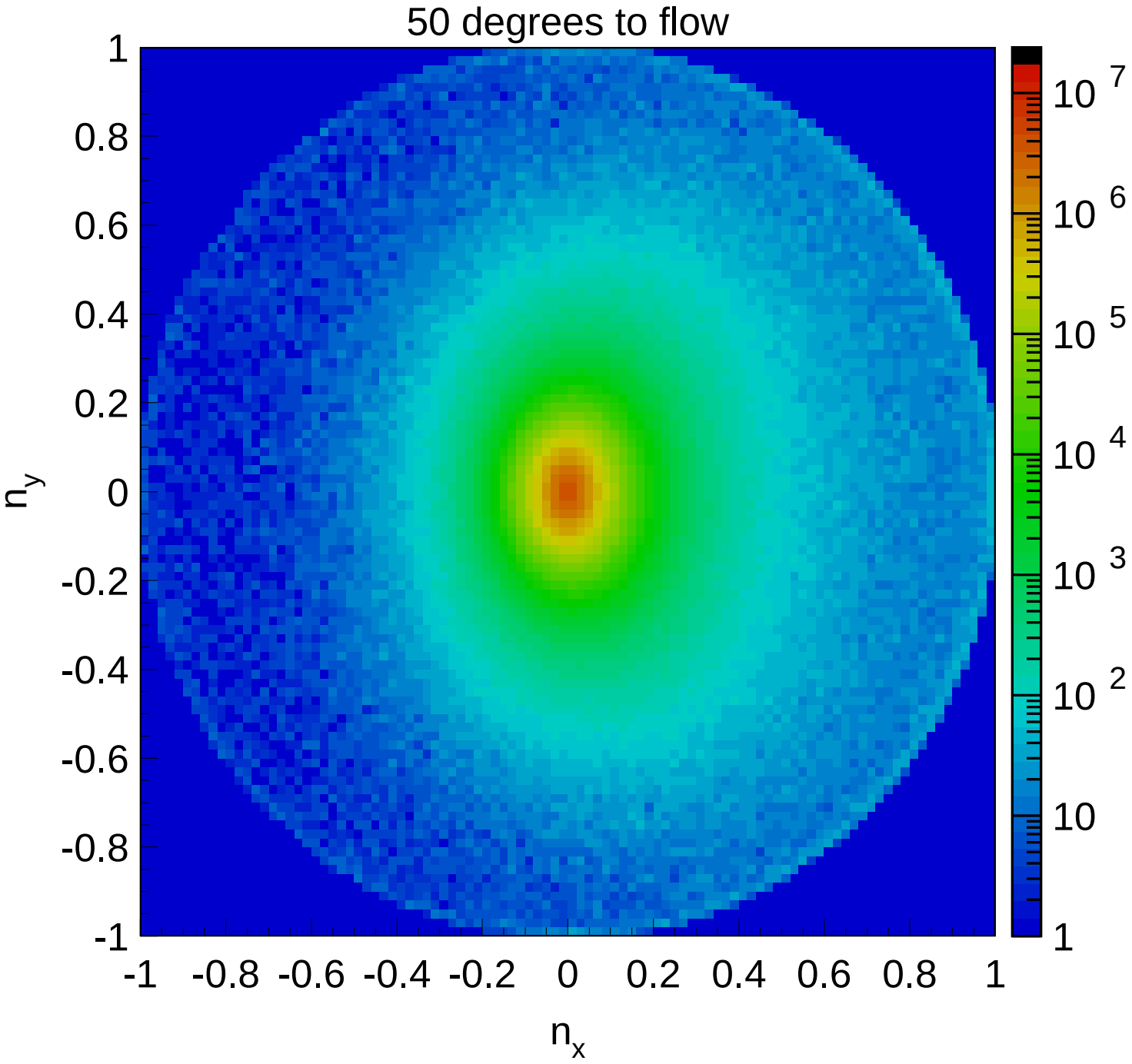

25 degrees to flow
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
n_y
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1
n_x
10^7
10^6
10^5
10^4
10^3
10^2
10
1

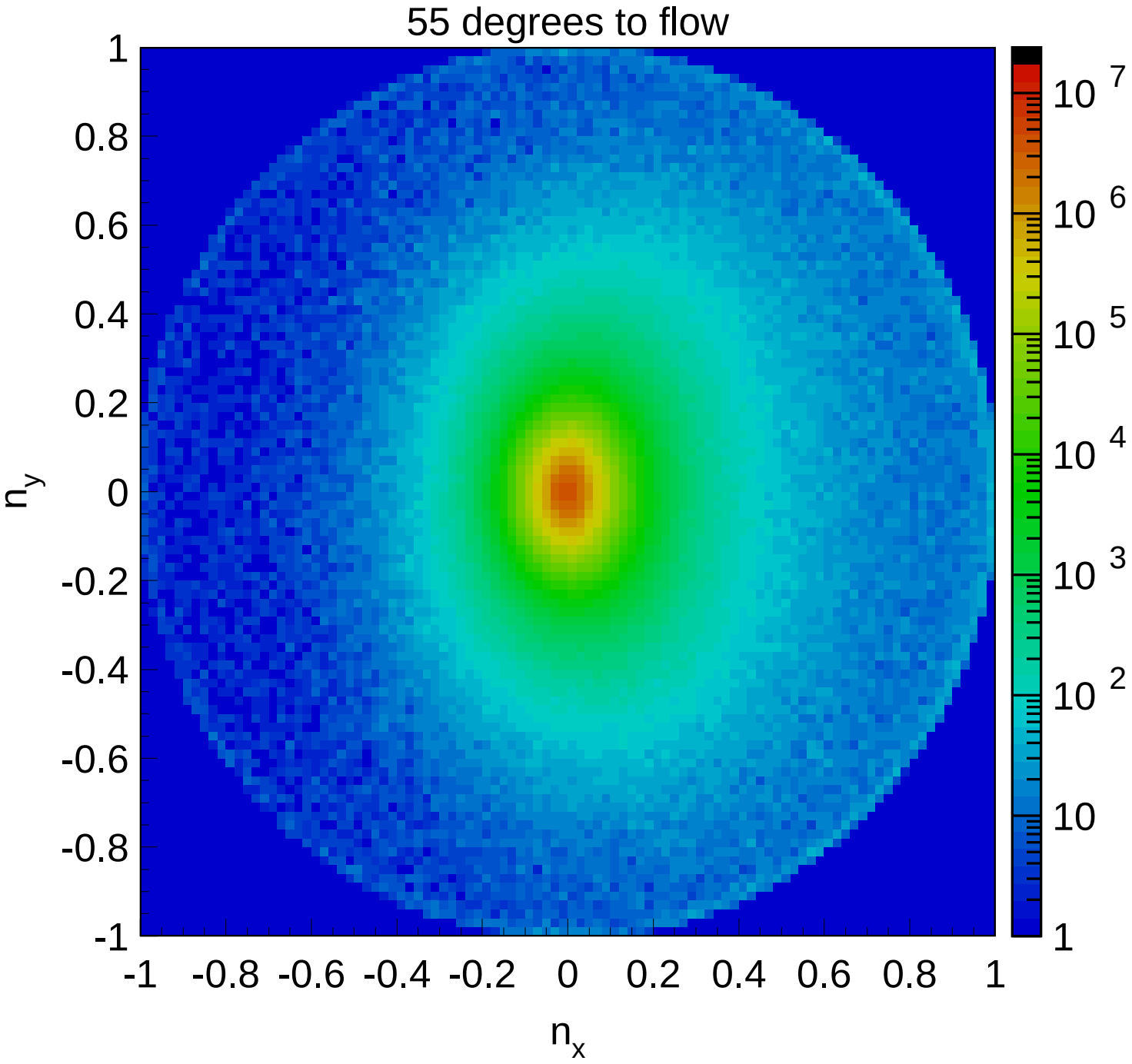

30 degrees to flow
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
n_y
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1
n_x
10^7
10^6
10^5
10^4
10^3
10^2
10
1

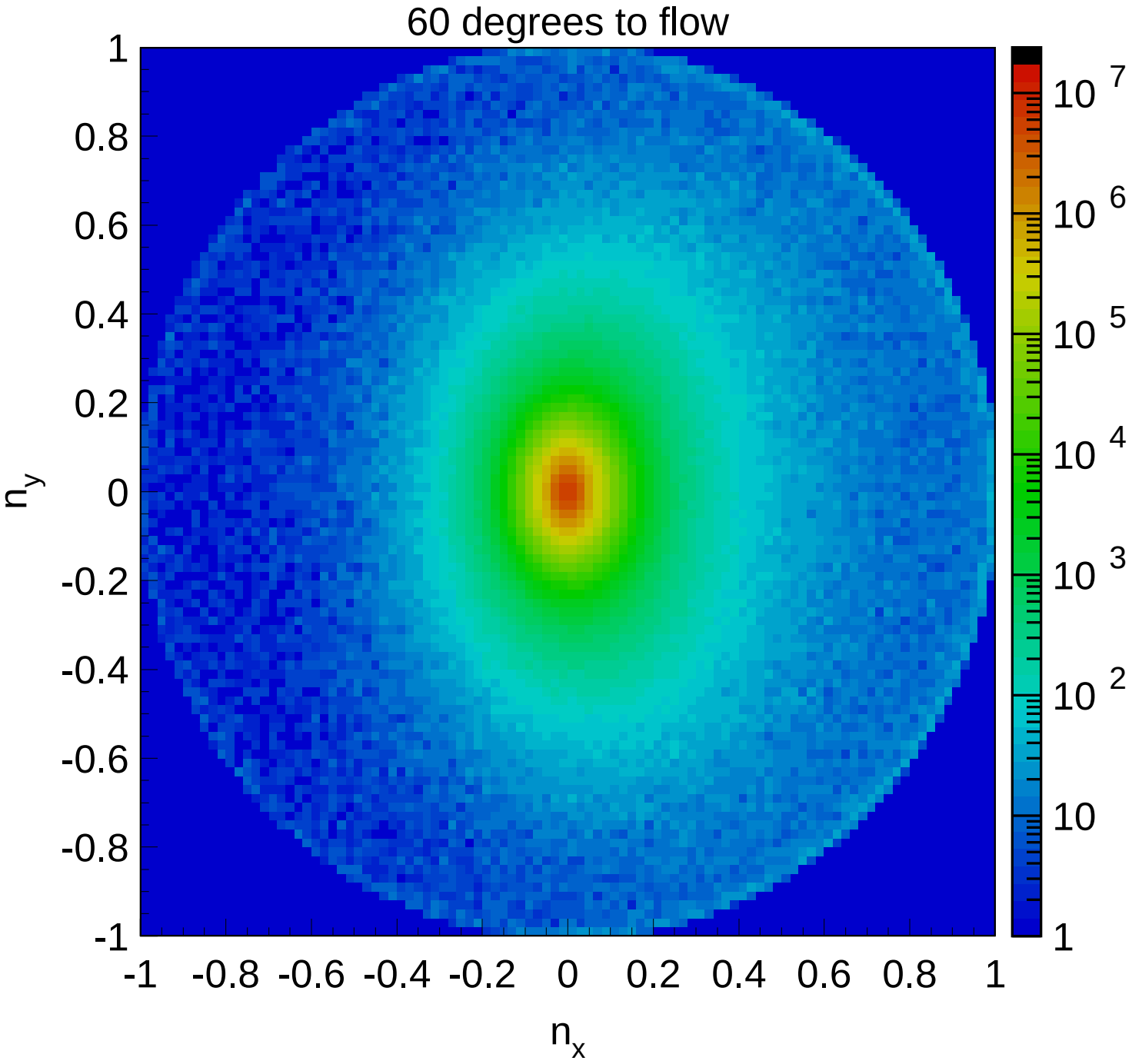

35 degrees to flow
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
n_y
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1
n_x
10^7
10^6
10^5
10^4
10^3
10^2
10
1

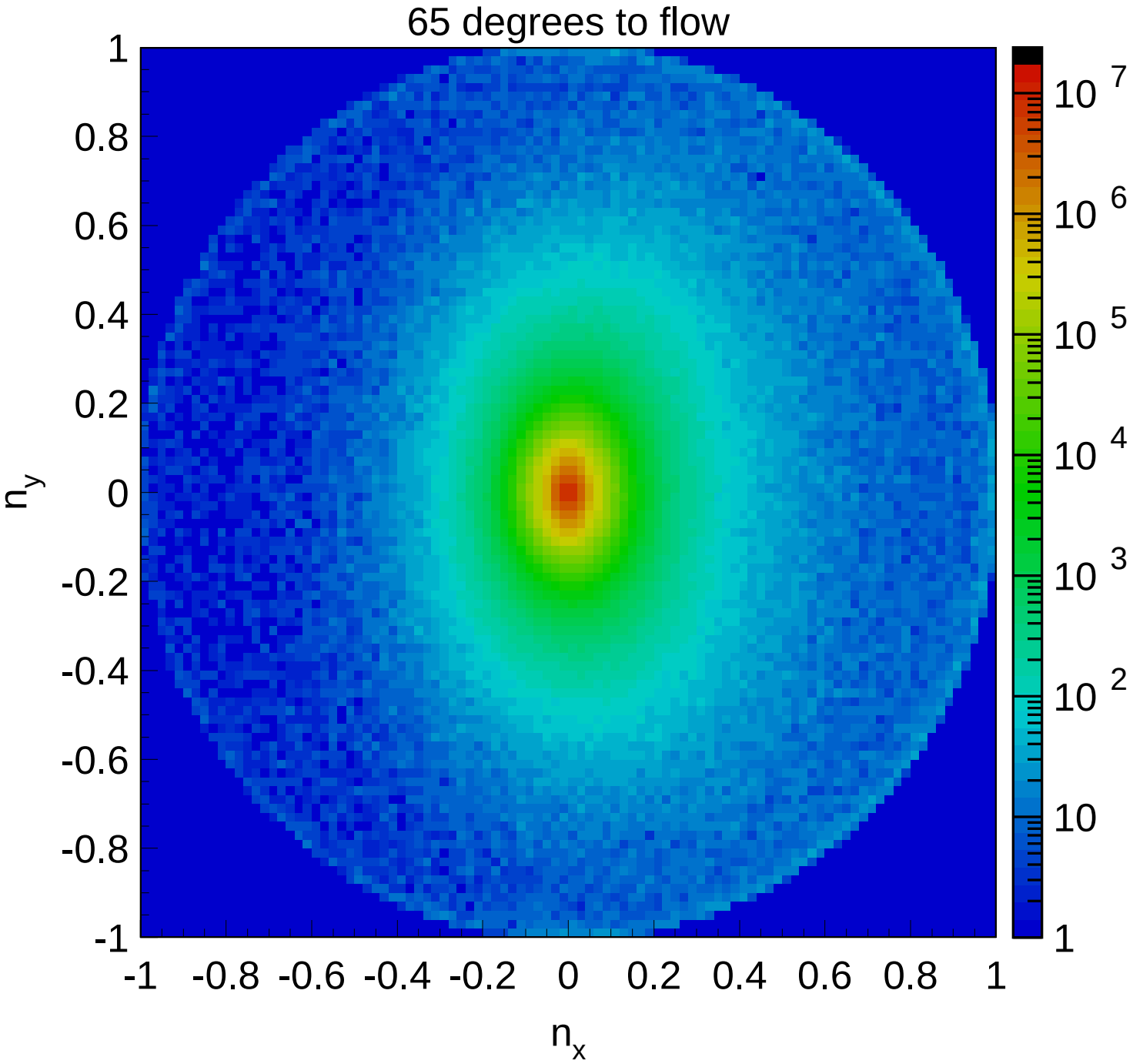

40 degrees to flow
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
n_y
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1
n_x
10^7
10^6
10^5
10^4
10^3
10^2
10
1

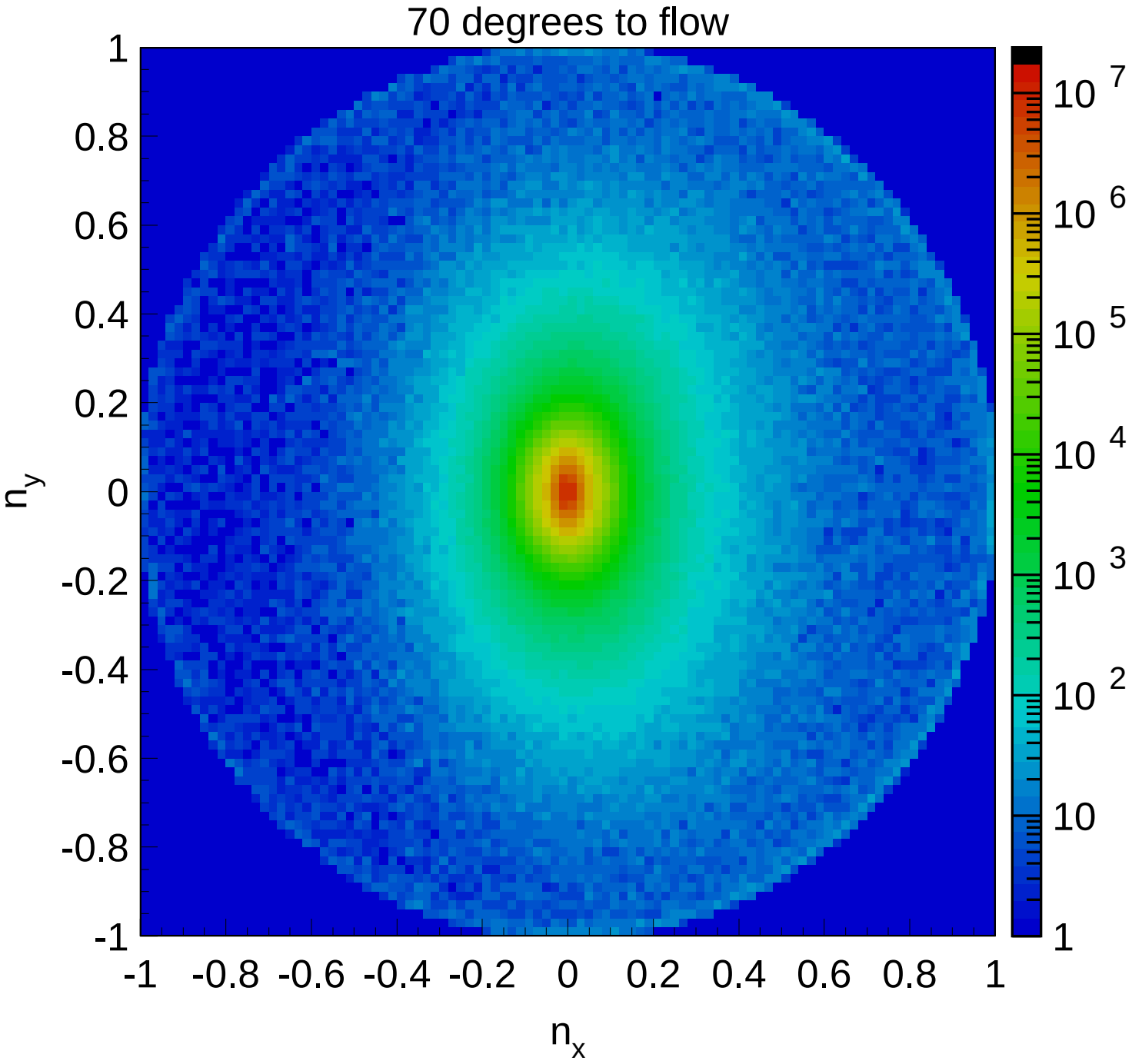

45 degrees to flow
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
n_y
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1
n_x
10^7
10^6
10^5
10^4
10^3
10^2
10
1

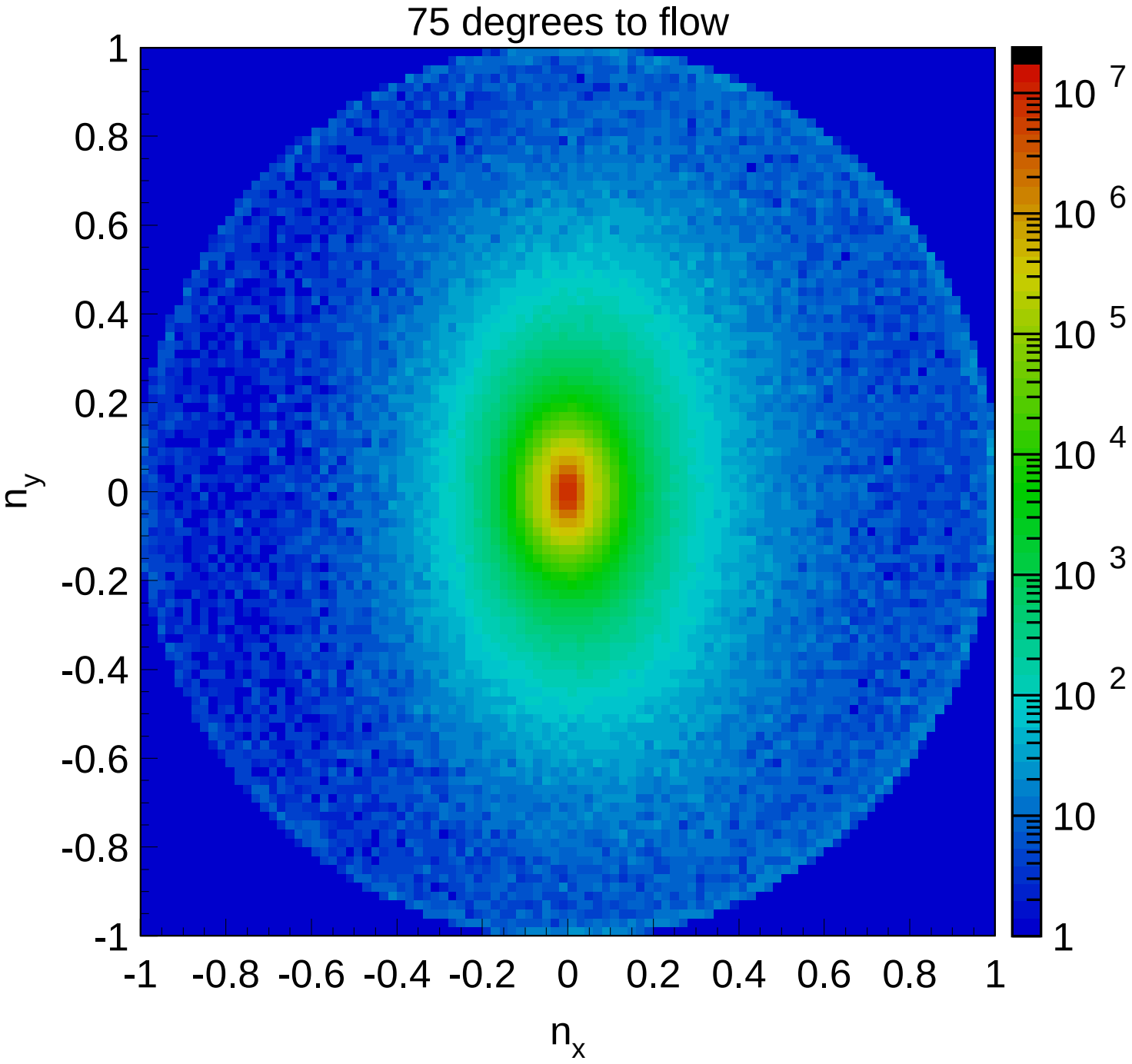

50 degrees to flow
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
n_y
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1
n_x
10^7
10^6
10^5
10^4
10^3
10^2
10
1

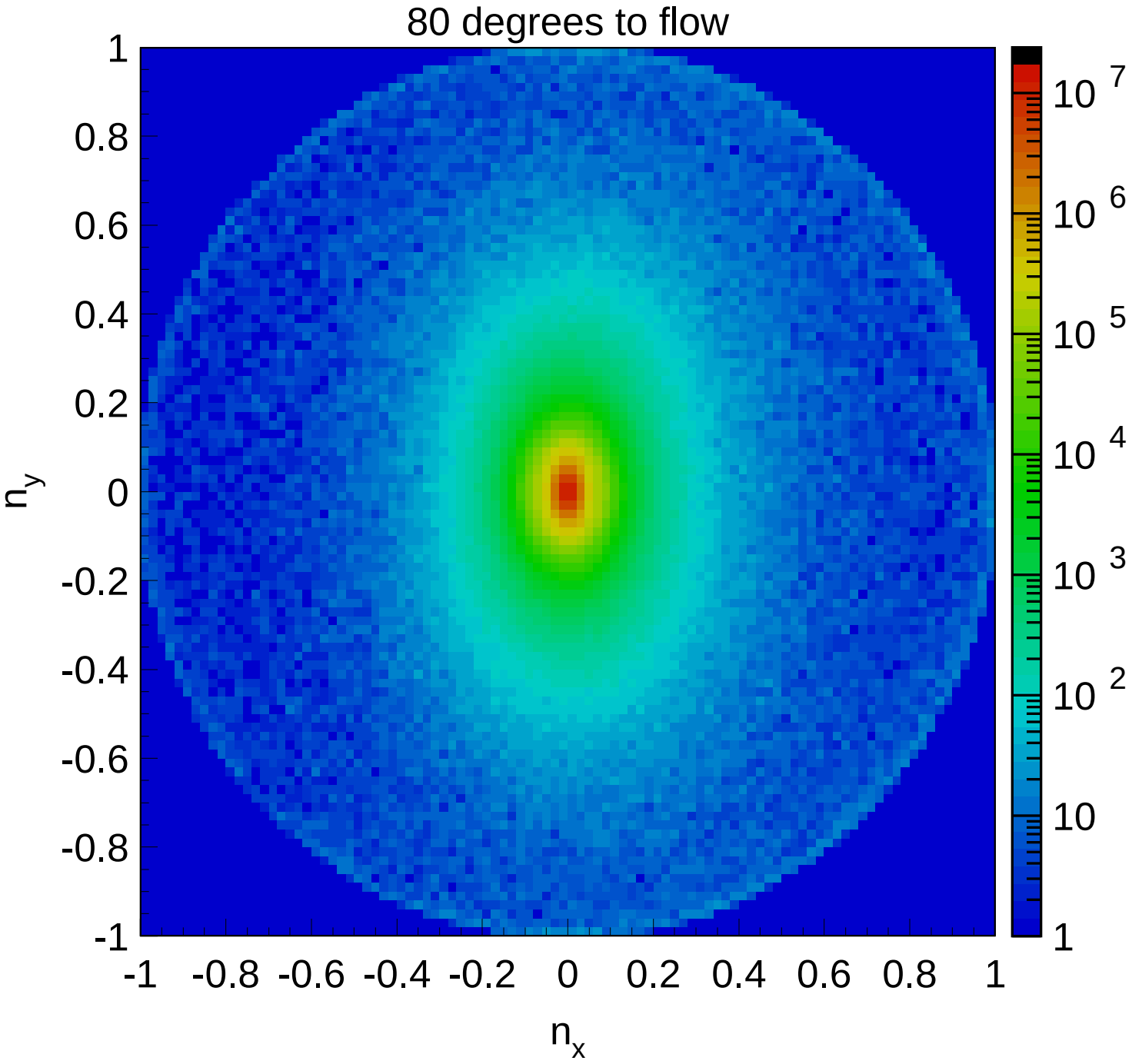

55 degrees to flow
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
n_y
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1
n_x
10^7
10^6
10^5
10^4
10^3
10^2
10
1

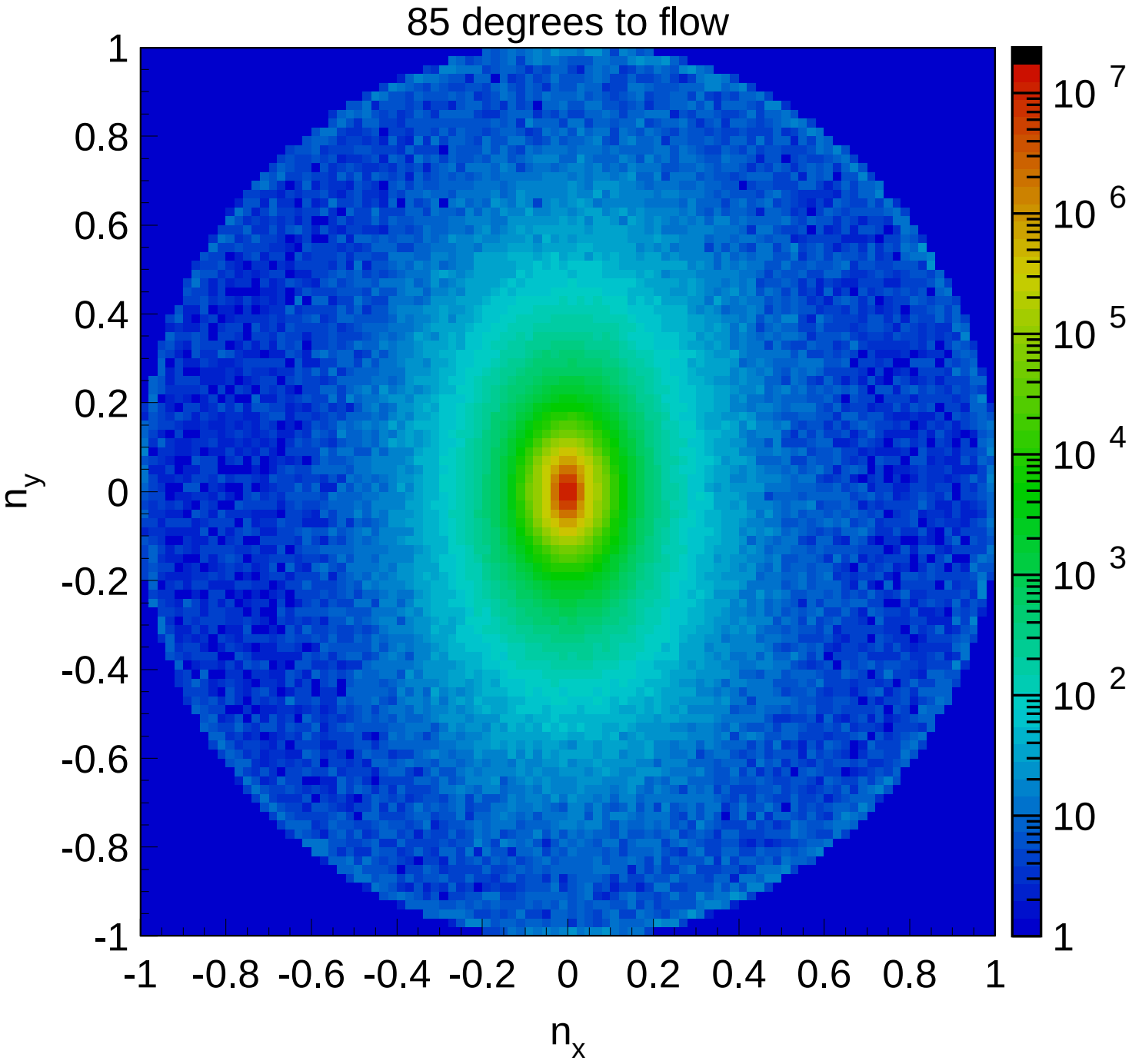

60 degrees to flow
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
n_y
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1
n_x
10^7
10^6
10^5
10^4
10^3
10^2
10
1

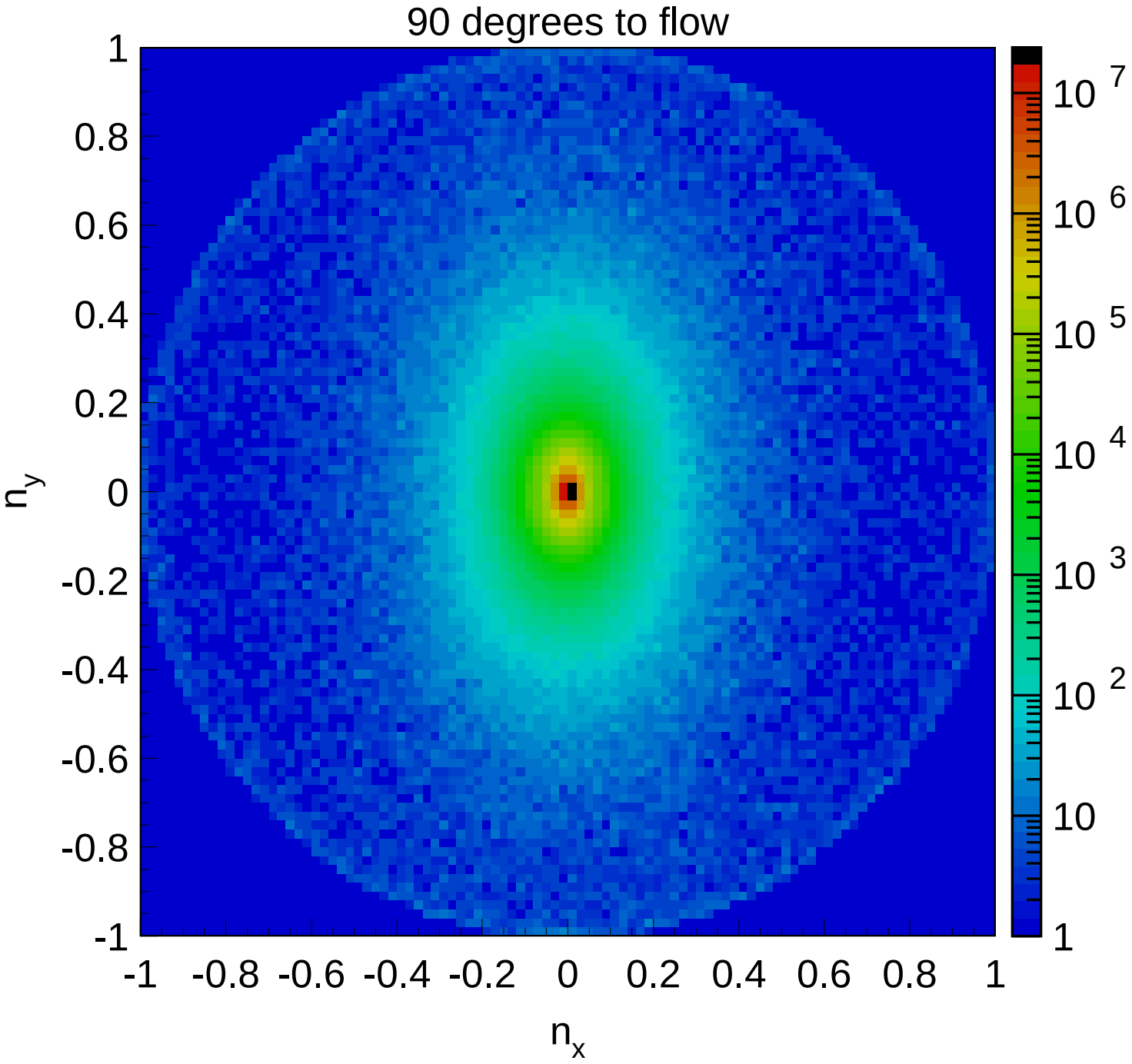

65 degrees to flow
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
n_y
-1 -0.8 -0.6 -0.4 -0.2 0 0.2 0.4 0.6 0.8 1
n_x
10^7
10^6
10^5
10^4
10^3
10^2
10
1

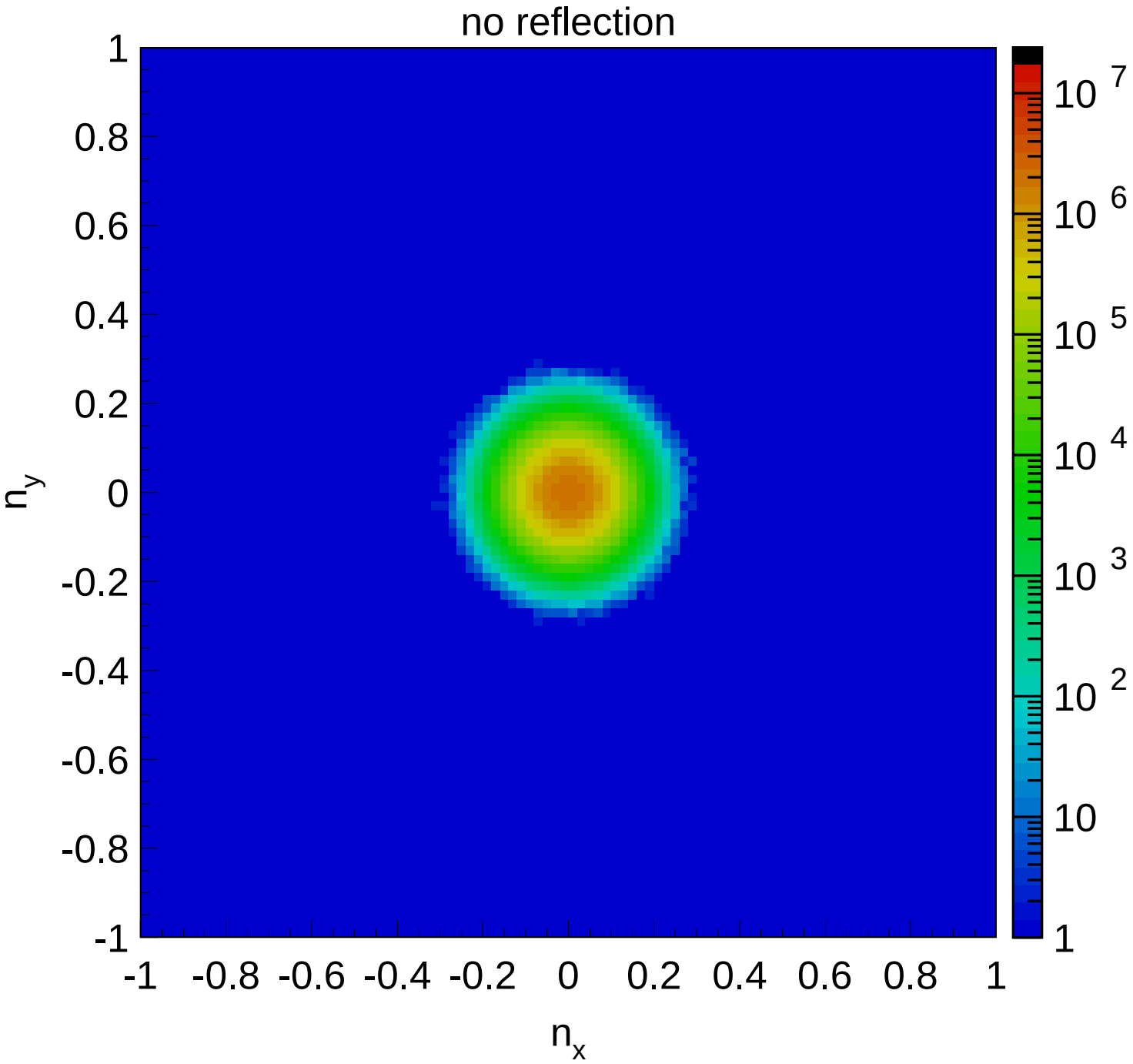

70 degrees to flow
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
n_y
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1
n_x
10^7
10^6
10^5
10^4
10^3
10^2
10
1


75 degrees to flow
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
n_y
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1
n_x
10^7
10^6
10^5
10^4
10^3
10^2
10
1


80 degrees to flow
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
n_y
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1
n_x
10^7
10^6
10^5
10^4
10^3
10^2
10
1


85 degrees to flow
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
n_y
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1
n_x
10^7
10^6
10^5
10^4
10^3
10^2
10
1


90 degrees to flow
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
n_y
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1
n_x
10^7
10^6
10^5
10^4
10^3
10^2
10
1


no reflection
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
n_y
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1
n_x
10^7
10^6
10^5
10^4
10^3
10^2
10
1