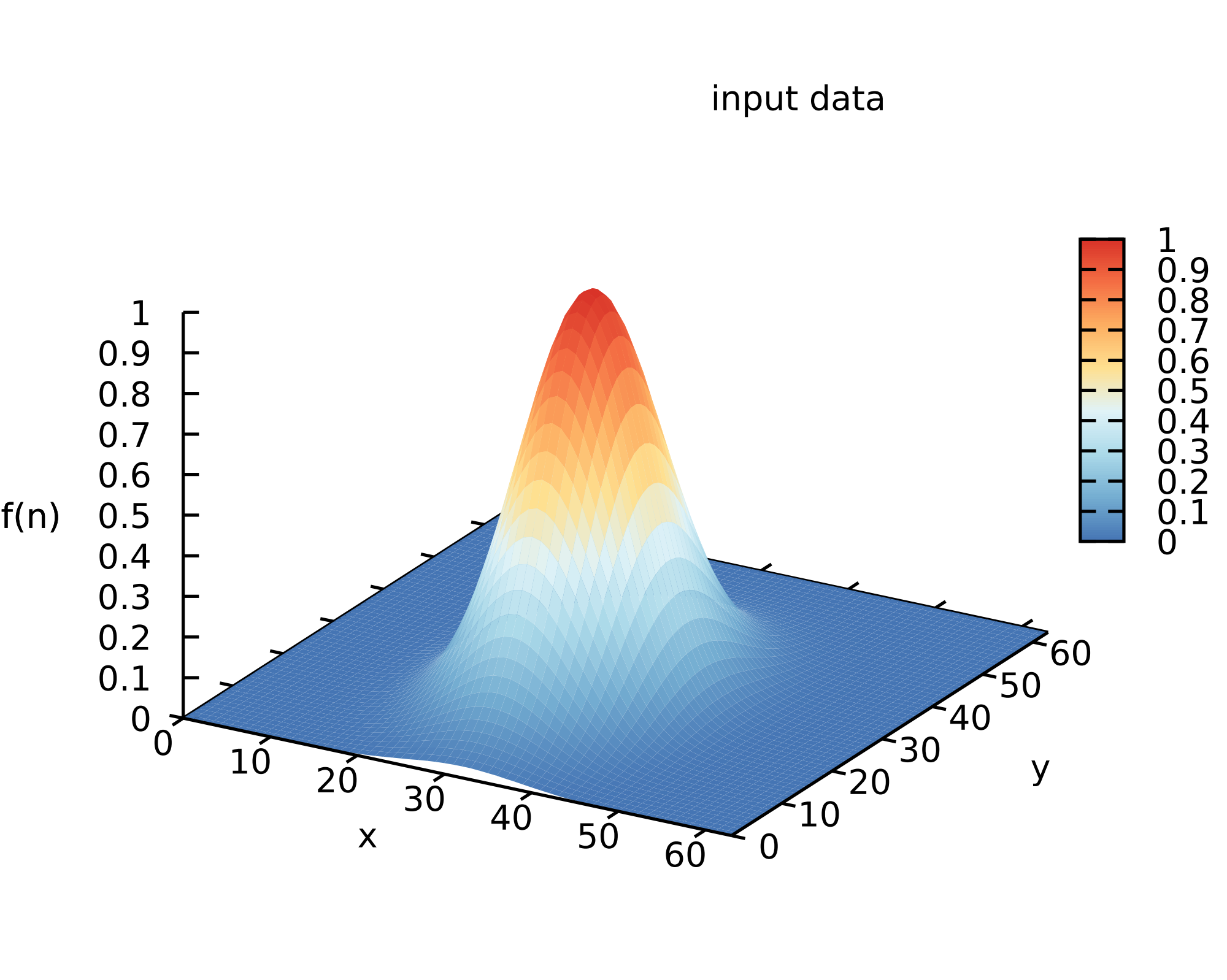
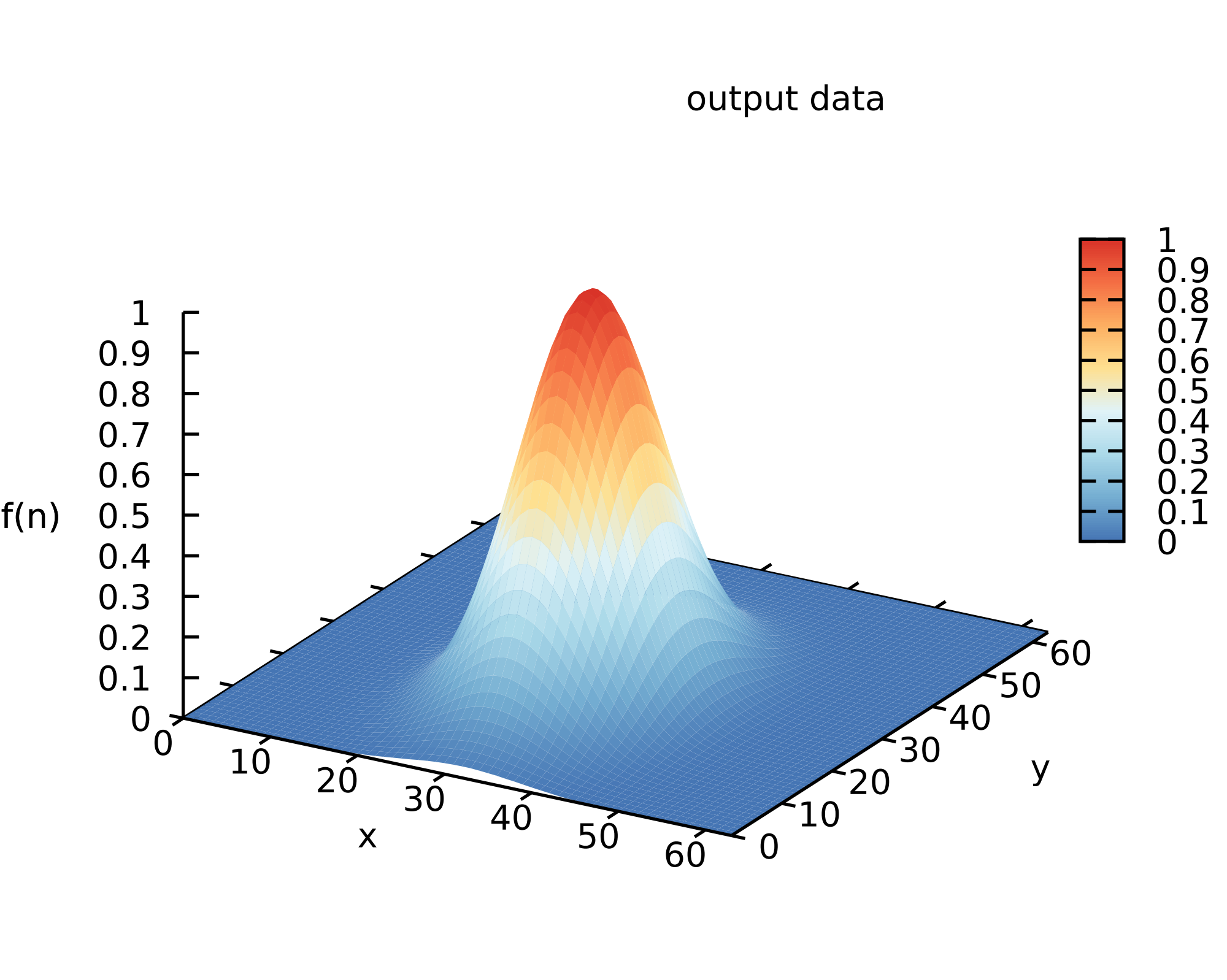
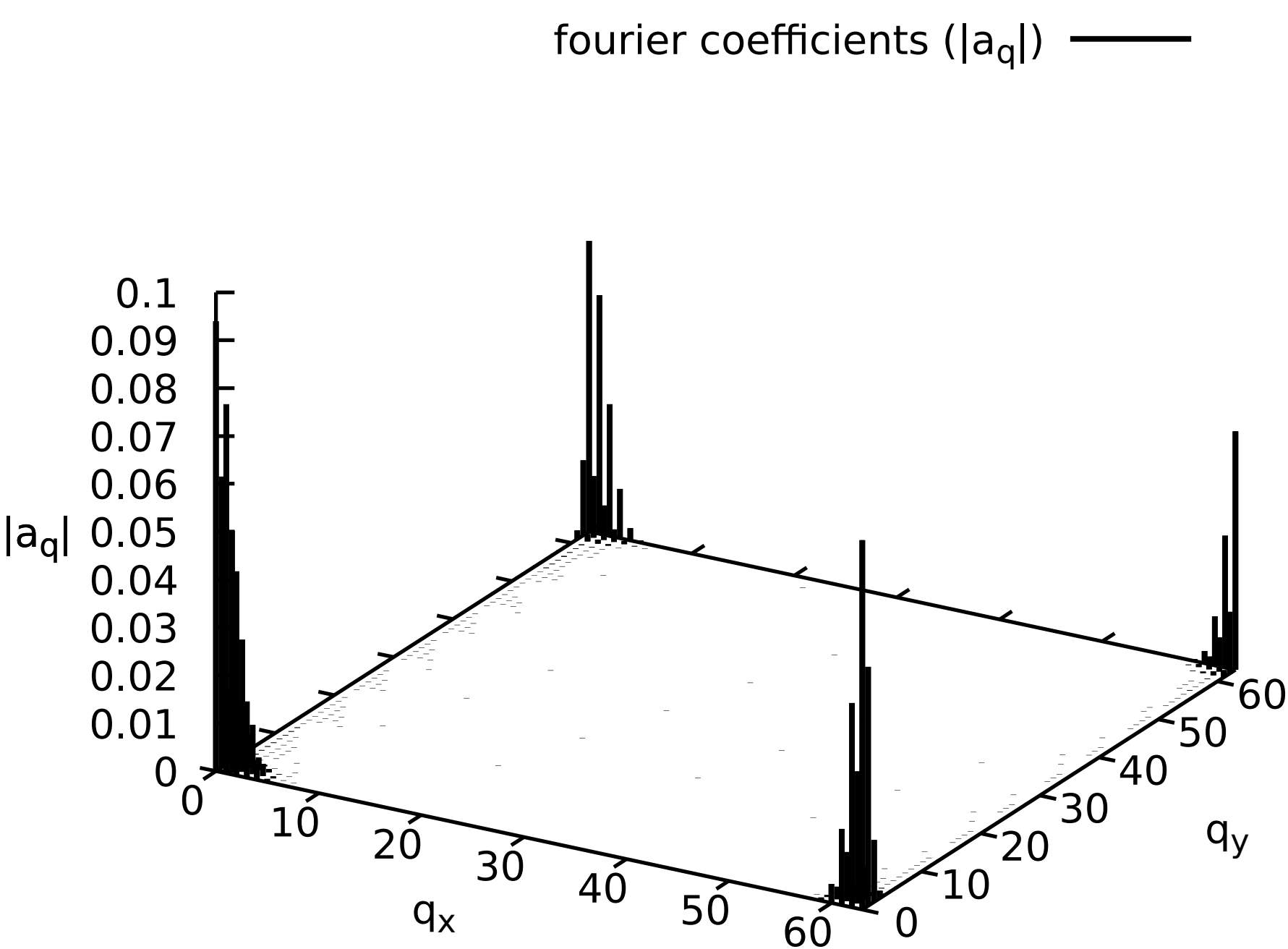
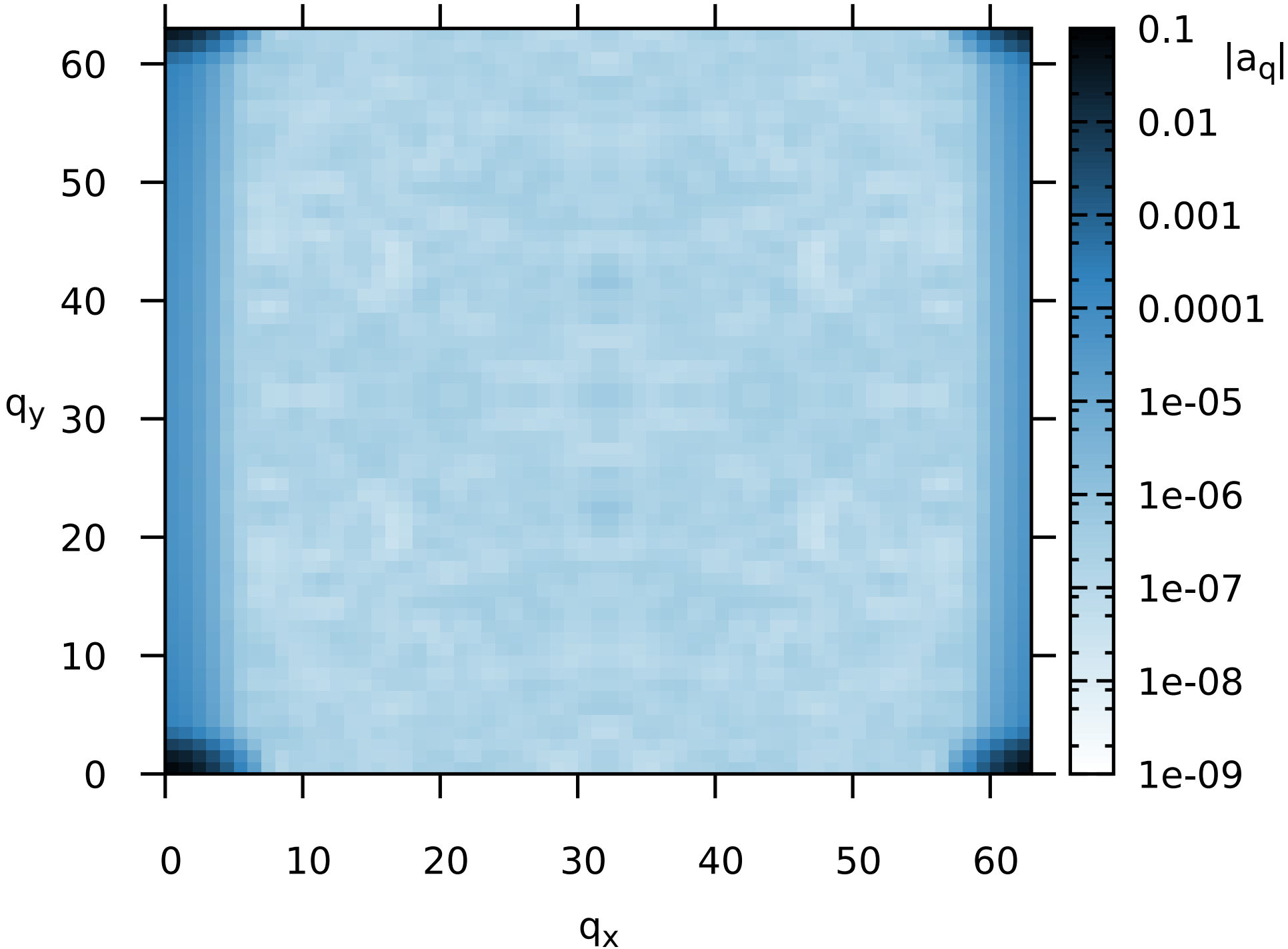

input data
f(n)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
10
20
30
40
50
60
x
0
10
20
30
40
50
60
y
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0


output data
f(n)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
10
20
30
40
50
60
x
0
10
20
30
40
50
60
y
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0


fourier coefficients (|a_q|)
|a_q|
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0
10
20
30
40
50
60
q_x
0
10
20
30
40
50
60
q_y


0.1
|a_q|
0.01
0.001
0.0001
1e-05
1e-06
1e-07
1e-08
1e-09
q_y
0
10
20
30
40
50
60
q_x