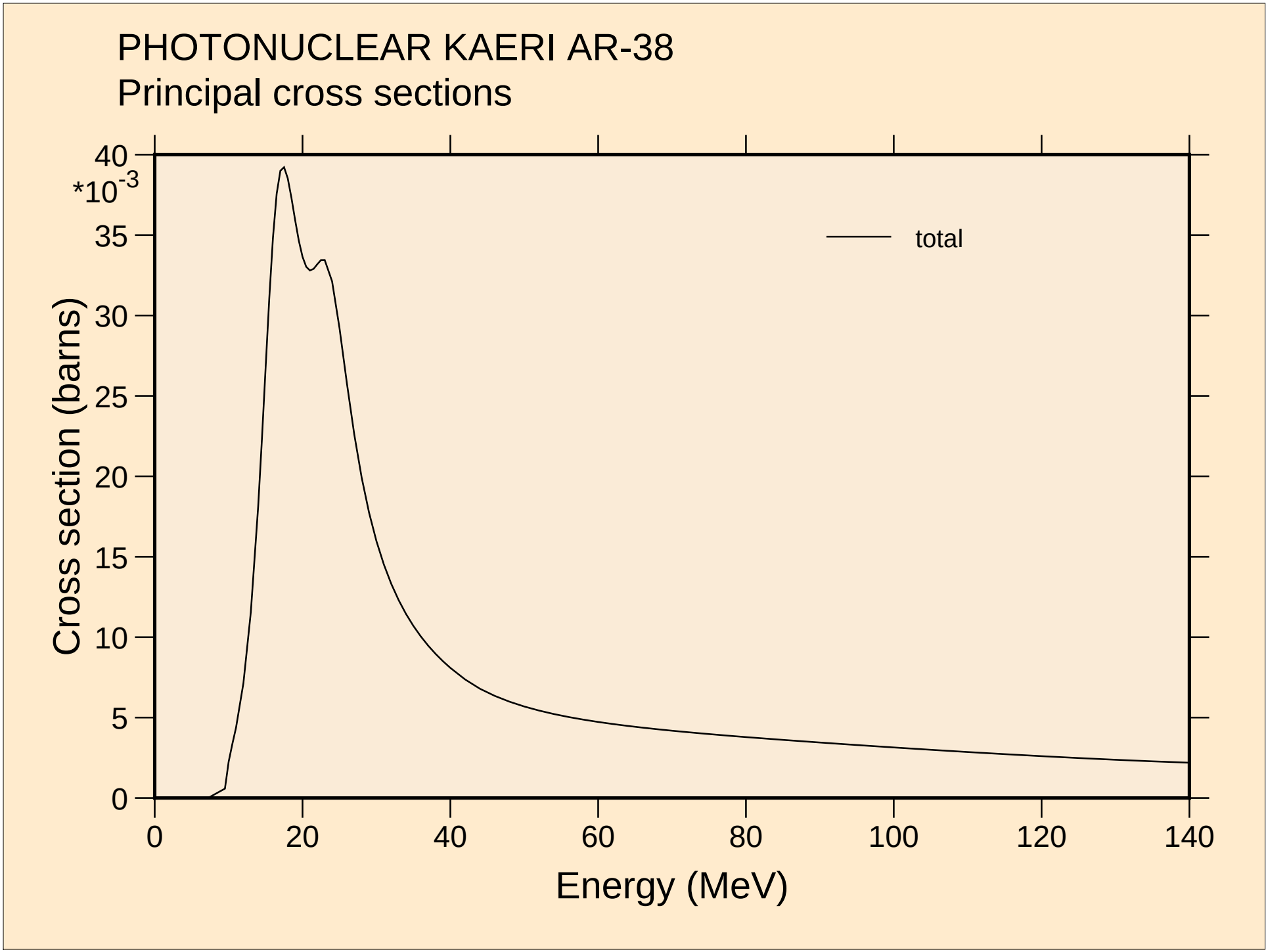
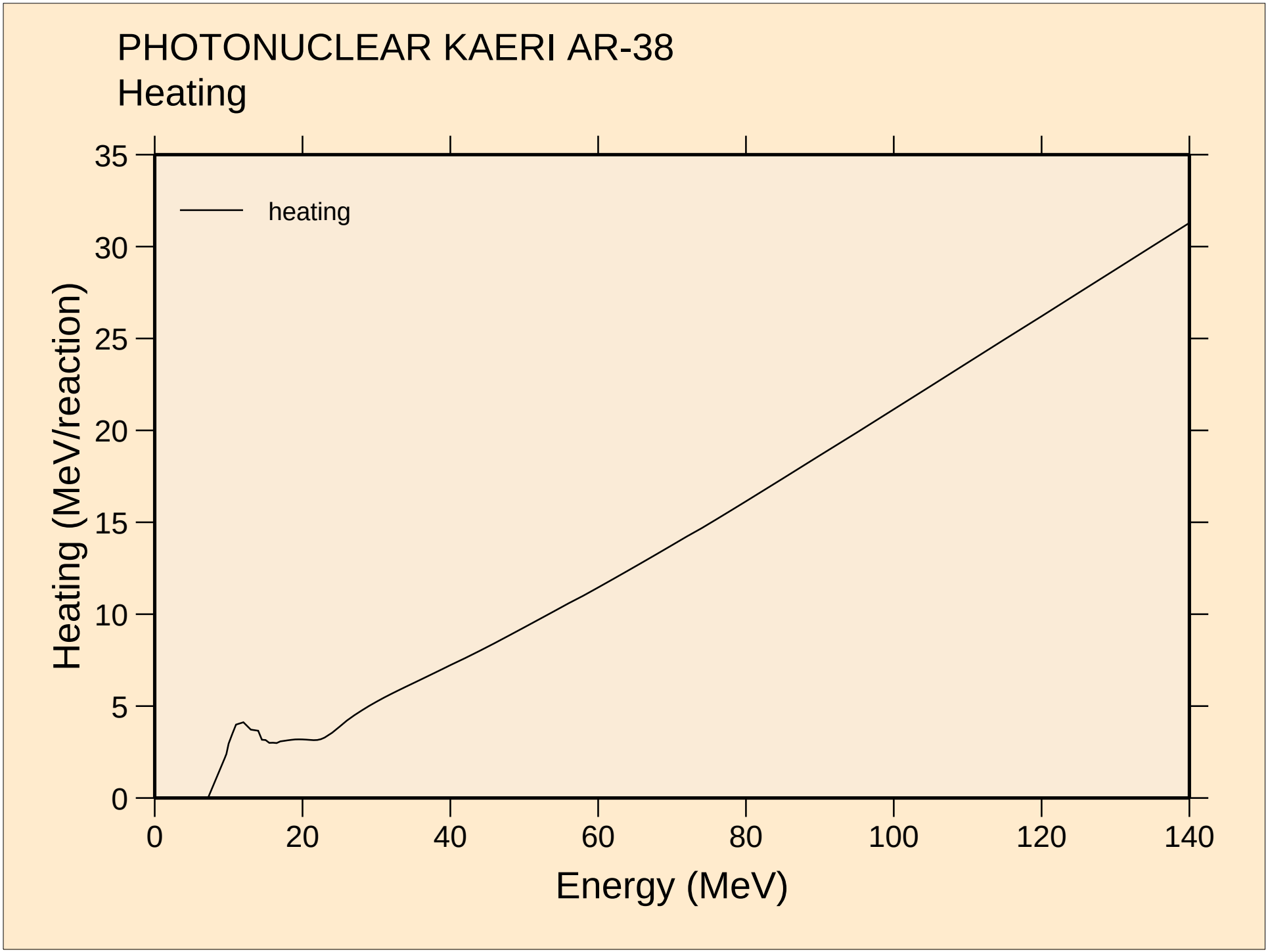
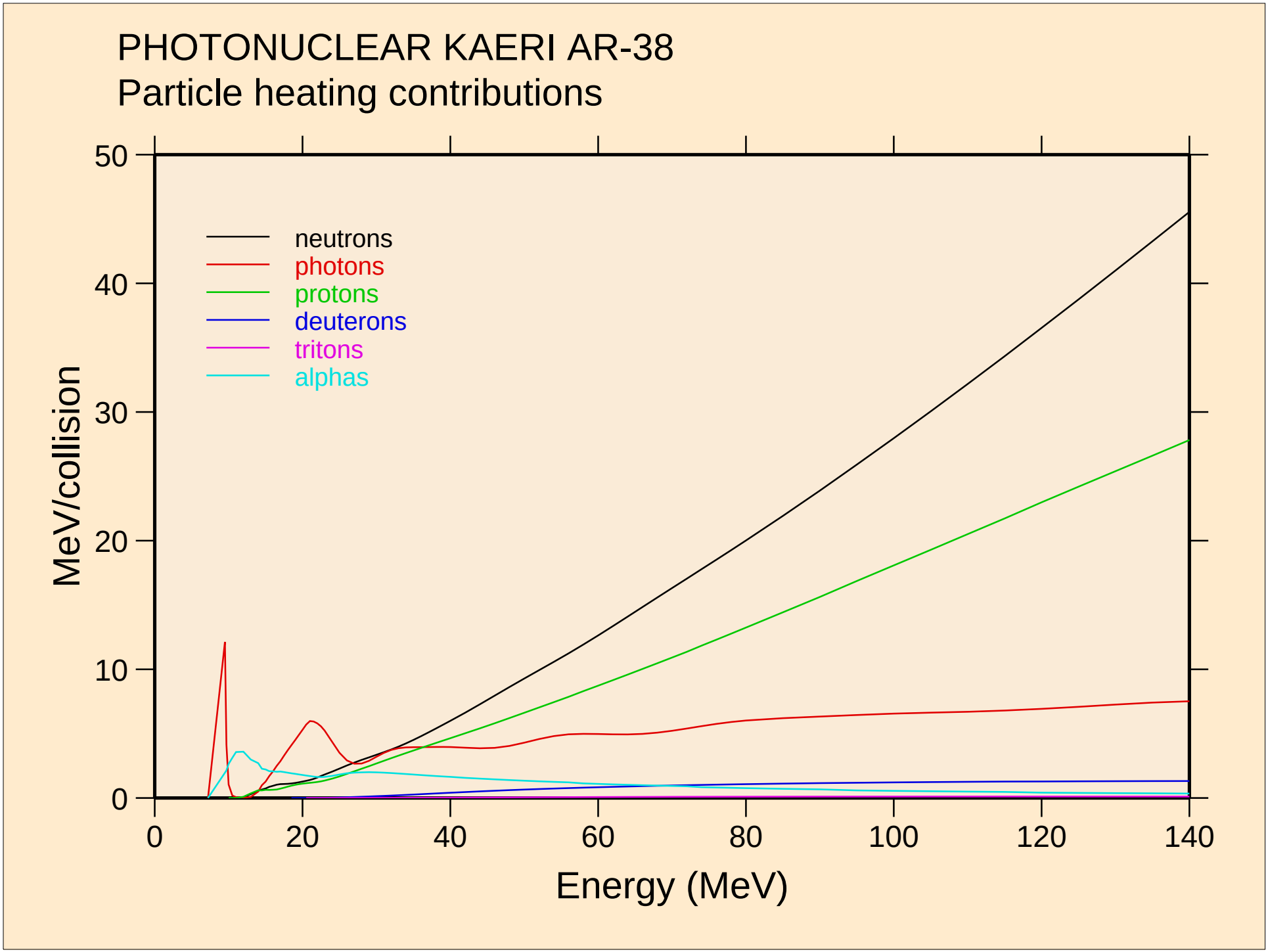
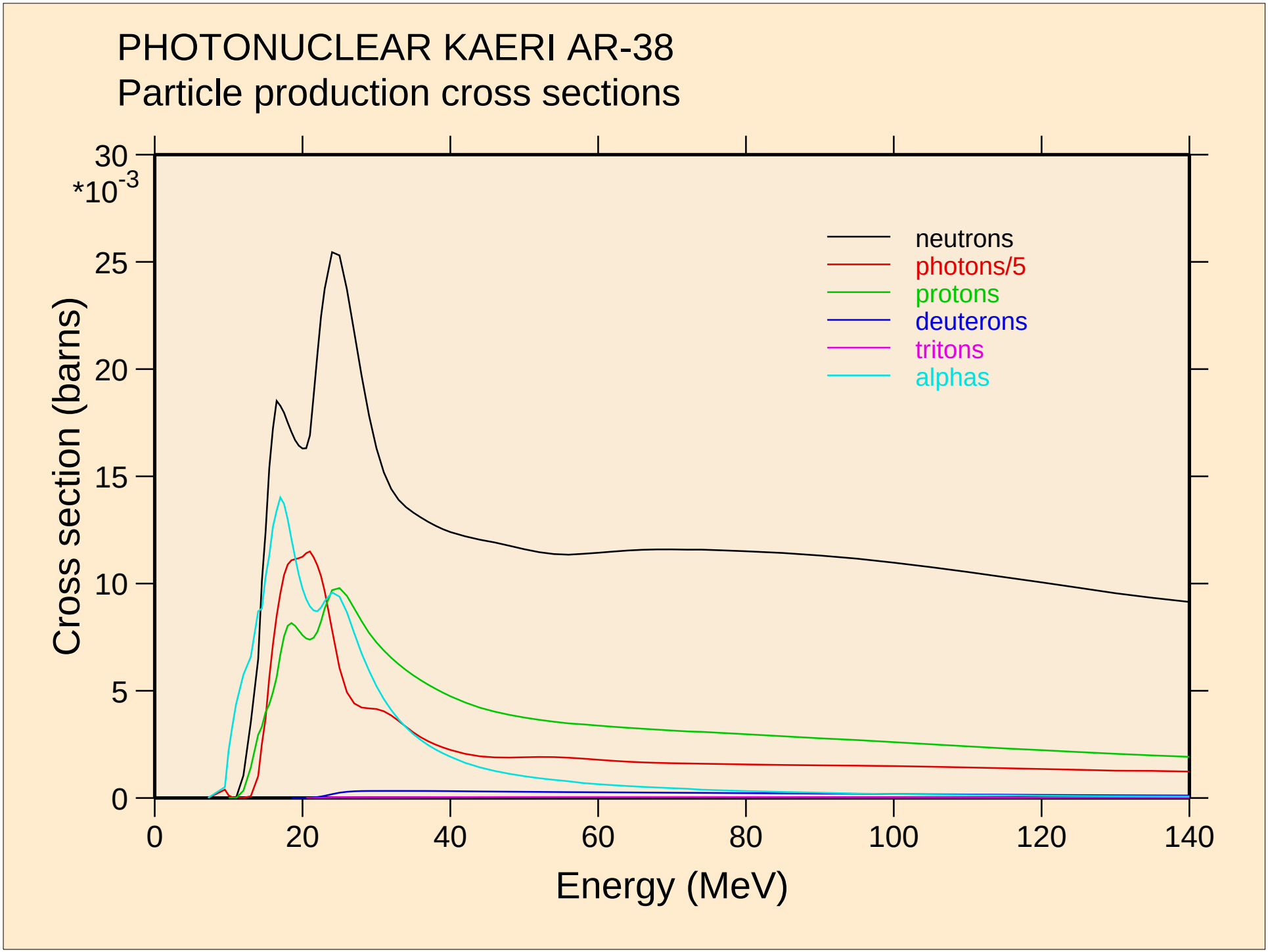
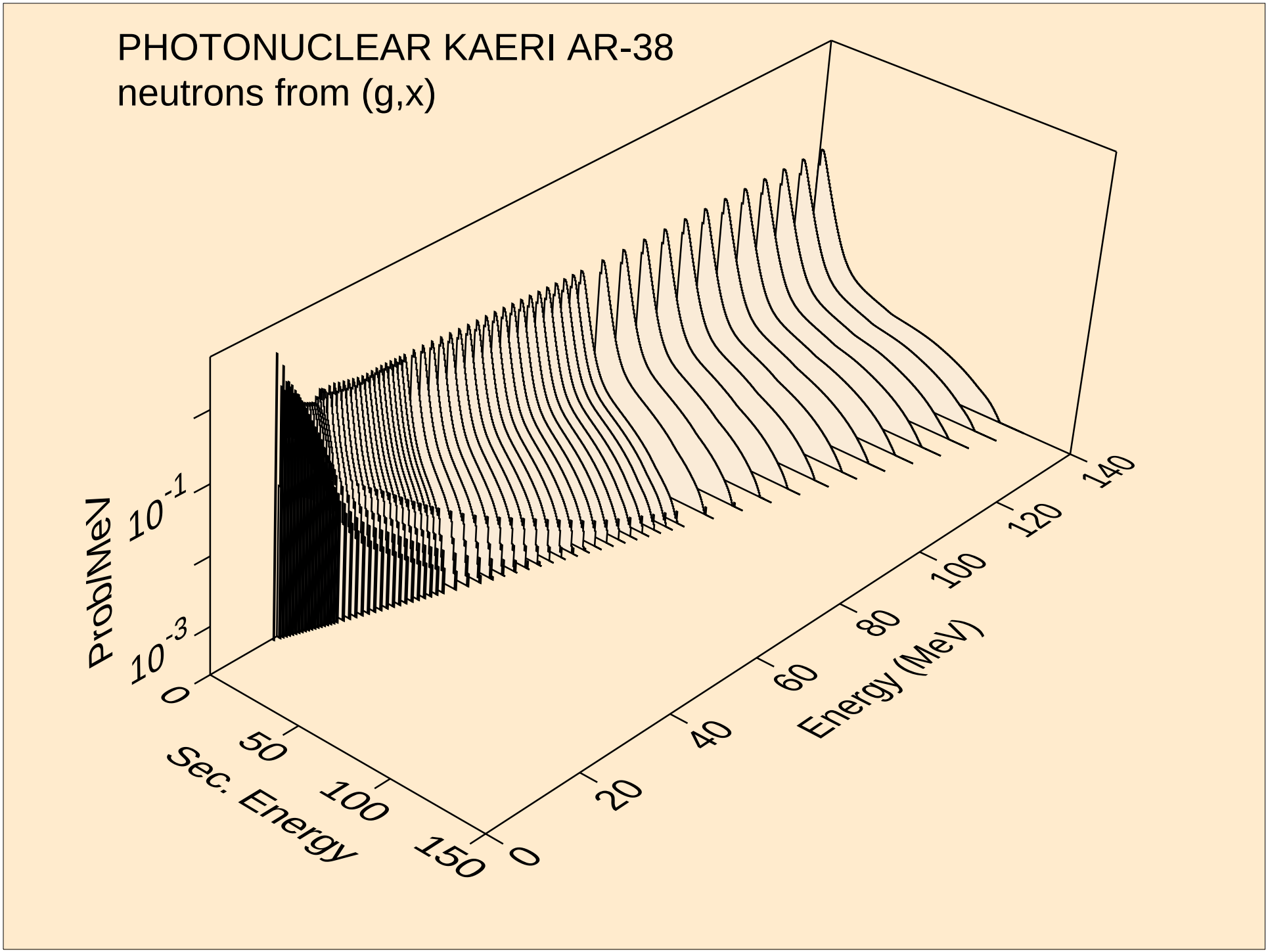
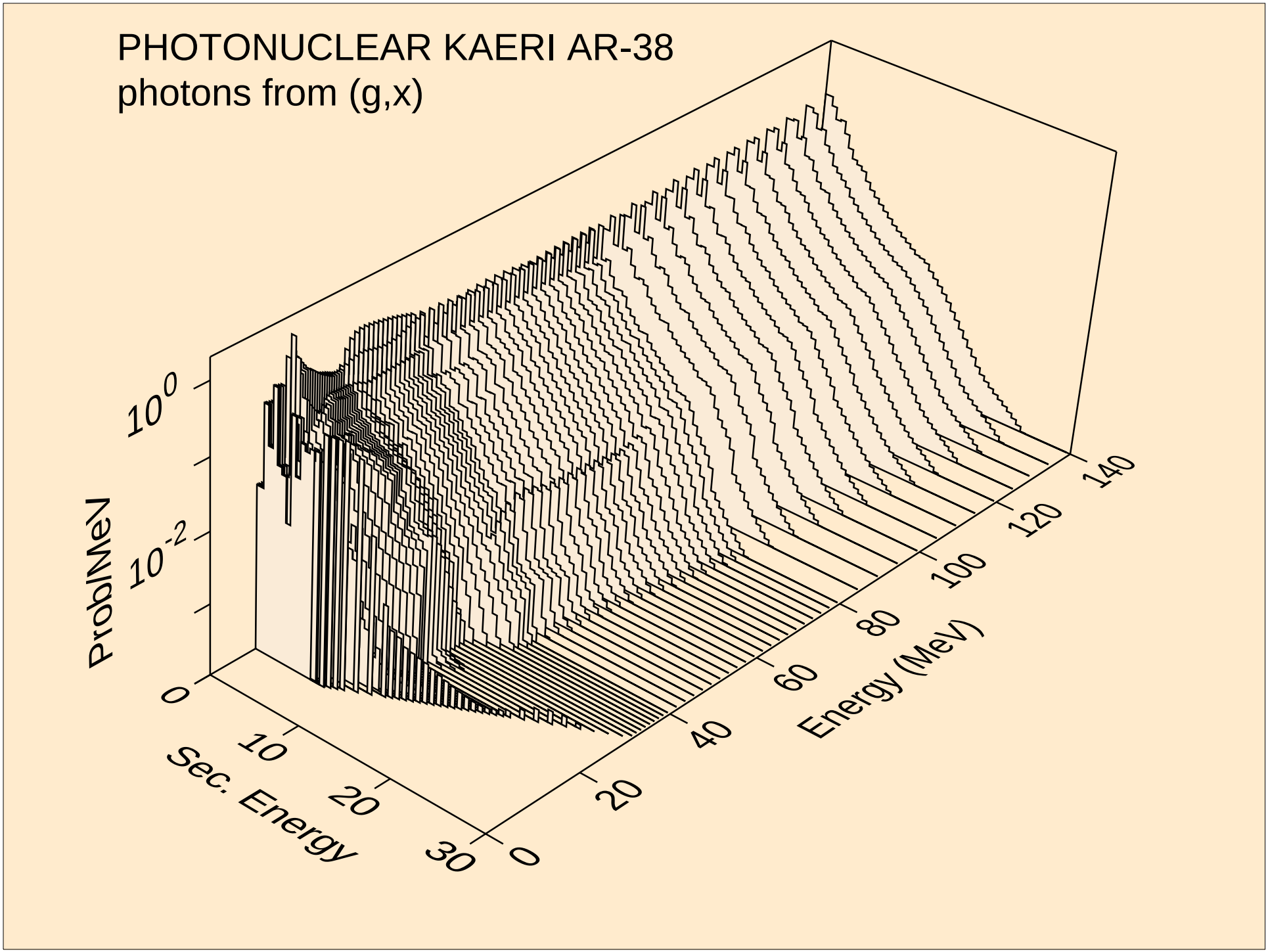

PHOTONUCLEAR KAERI AR-38
Principal cross sections
Cross section (barns)
*10-3
40
35
30
25
20
15
10
5
0
0
20
40
60
80
100
120
140
Energy (MeV)
total

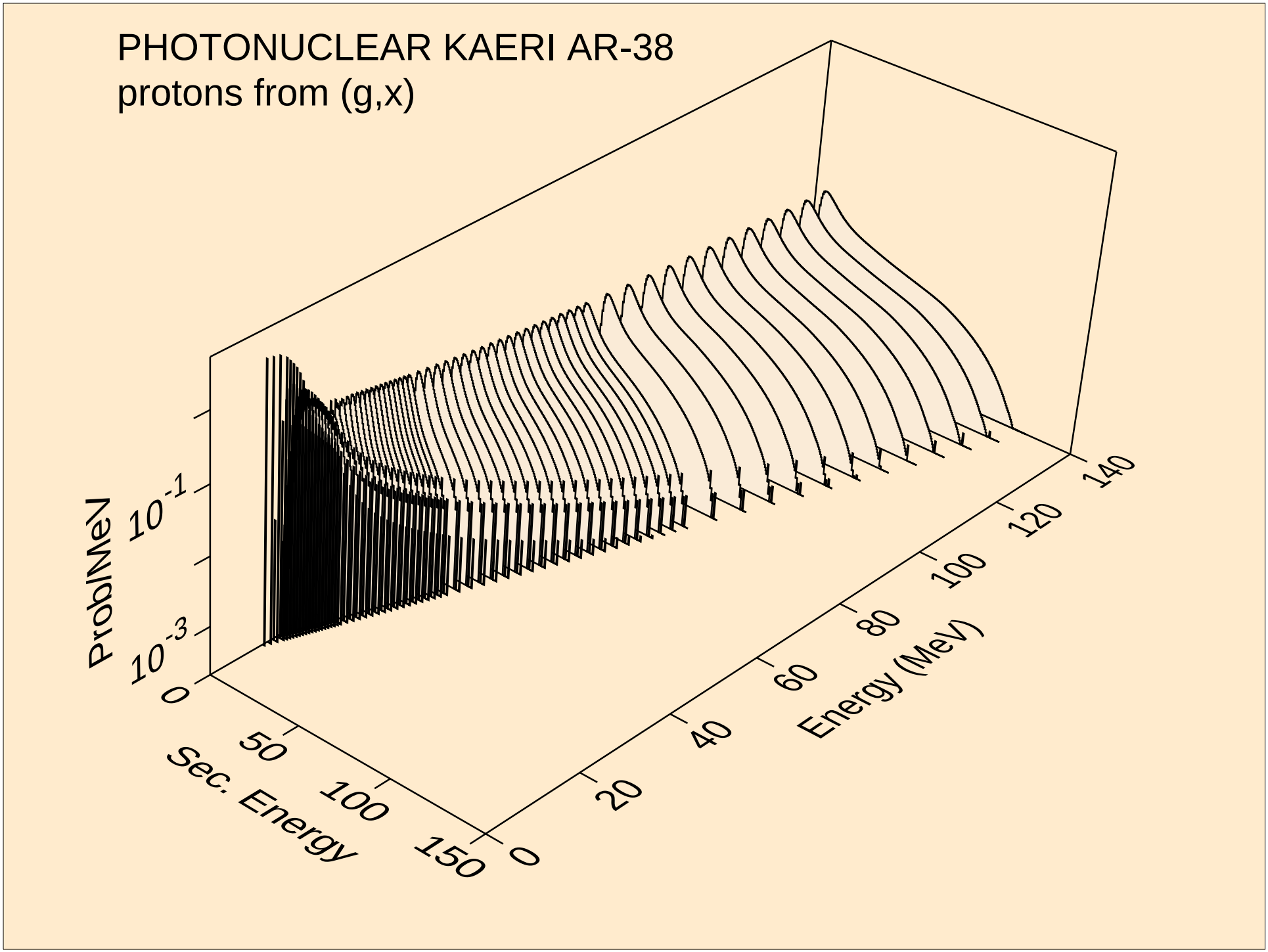

PHOTONUCLEAR KAERI AR-38
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
0
5
10
15
20
25
30
35
0
20
40
60
80
100
120
140

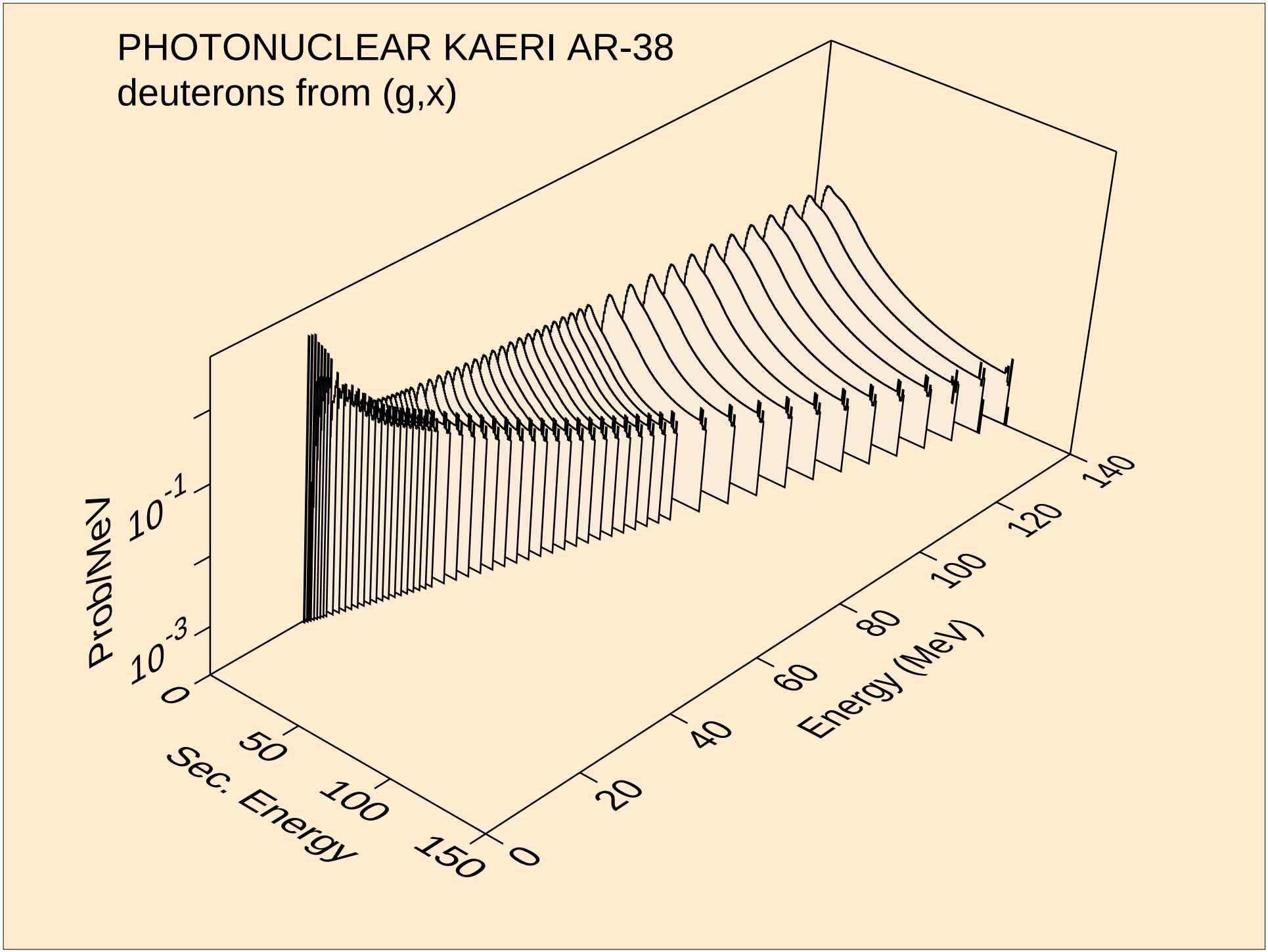

PHOTONUCLEAR KAERI AR-38
Particle heating contributions
neutrons
photons
protons
deuterons
tritons
alphas
MeV/collision
0
10
20
30
40
50
0
20
40
60
80
100
120
140
Energy (MeV)

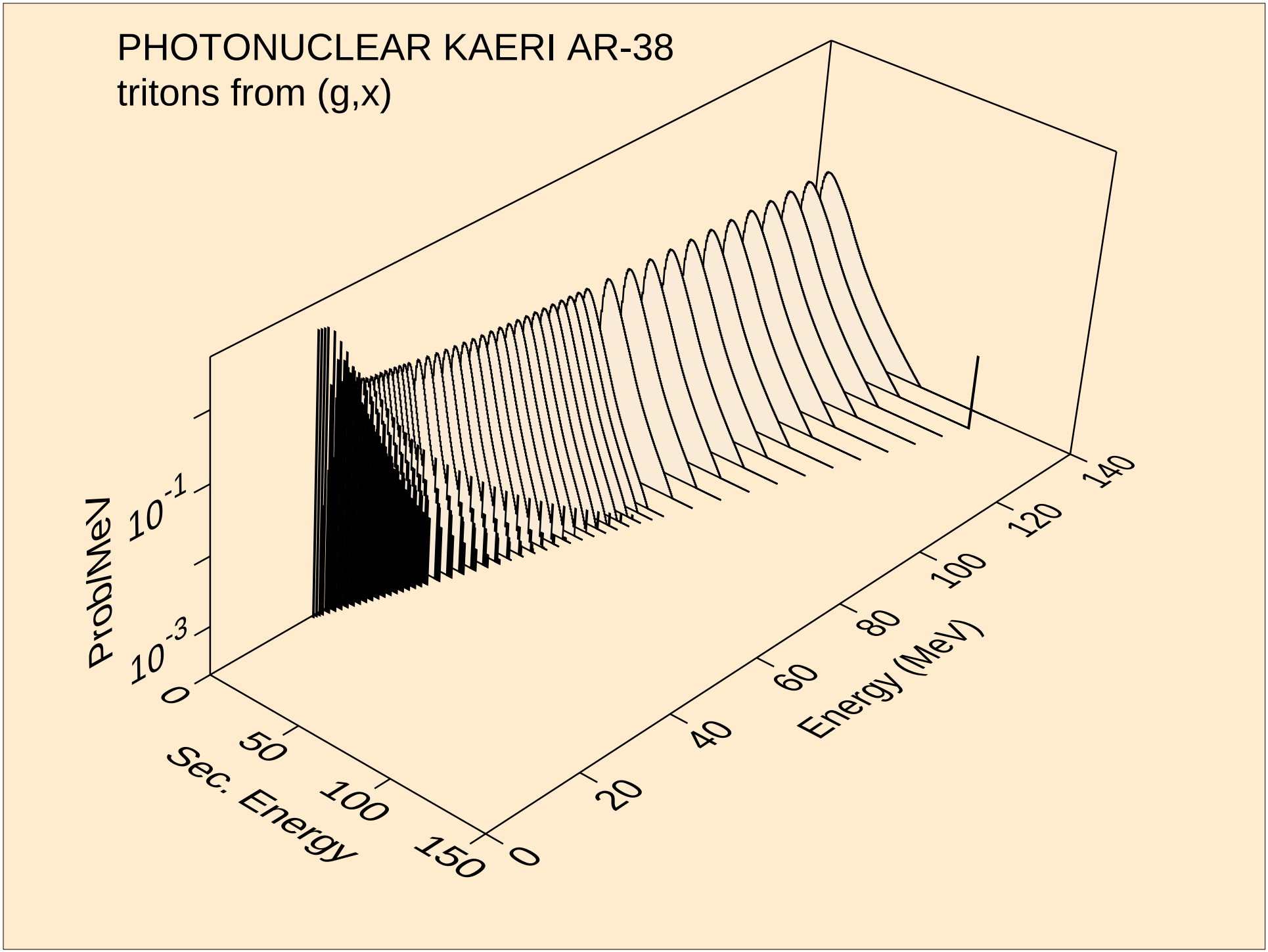

PHOTONUCLEAR KAERI AR-38
Particle production cross sections
Cross section (barns)
*10-3
30
25
20
15
10
5
0
0
20
40
60
80
100
120
140
Energy (MeV)
neutrons
photons/5
protons
deuterons
tritons
alphas

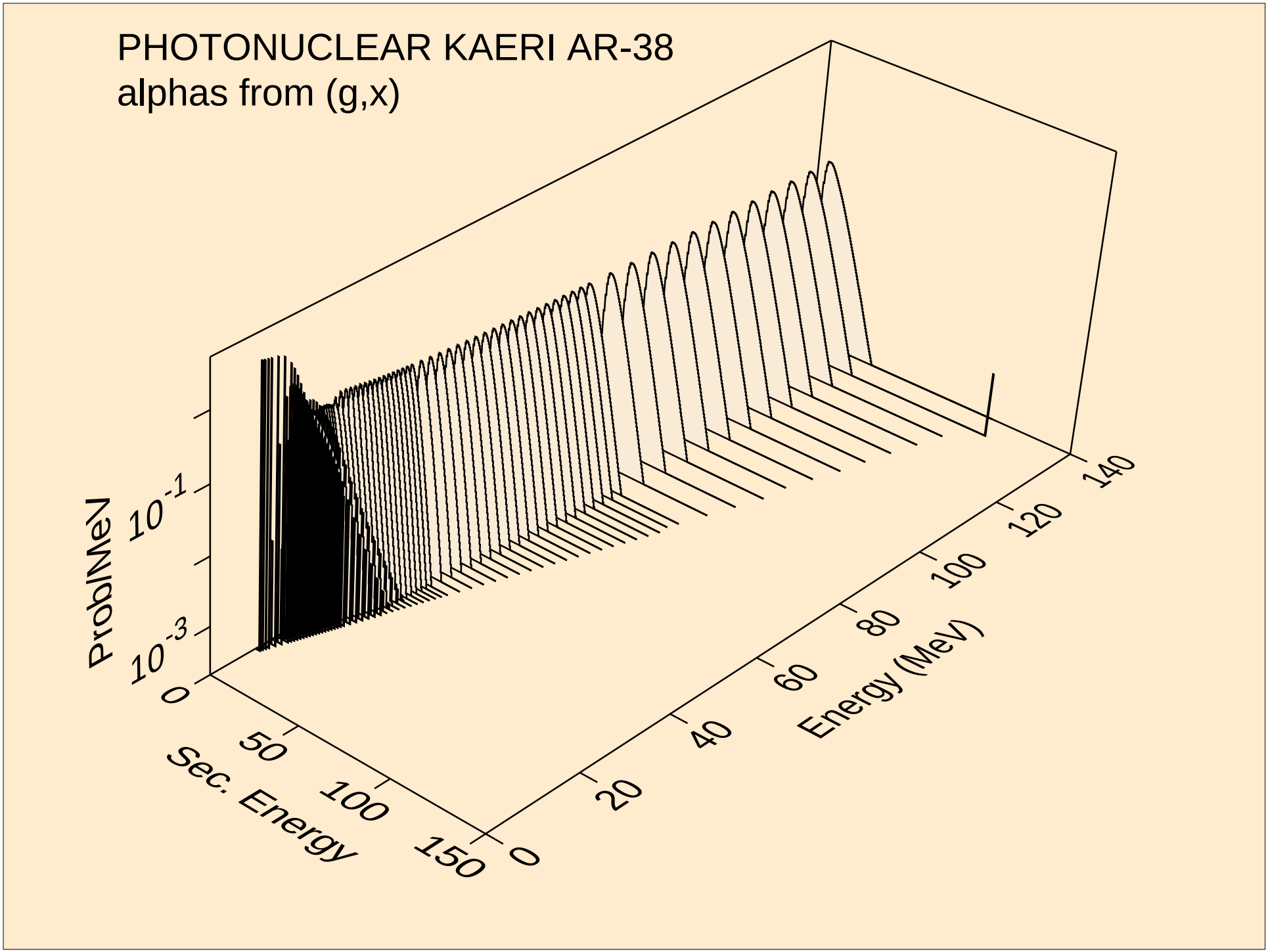

PHOTONUCLEAR KAERI AR-38
neutrons from (g,x)
Prob/MeV
10-1
10-3
0
50
100
150
Sec. Energy
0
20
40
60
80
100
120
140
Energy (MeV)


PHOTONUCLEAR KAERI AR-38
photons from (g,x)
Prob/MeV
10^0
10^-2
0
10
20
30
Sec. Energy
0
20
40
60
80
100
120
140
Energy (MeV)


PHOTONUCLEAR KAERI AR-38
protons from (g,x)
Prob/MeV
10-1
10-3
0
50
100
150
Sec. Energy
0
20
40
60
80
100
120
140
Energy (MeV)


PHOTONUCLEAR KAERI AR-38
deuterons from (g,x)
Prob/MeV
10-1
10-3
0
50
100
150
Sec. Energy
0
20
40
60
80
100
120
140
Energy (MeV)


PHOTONUCLEAR KAERI AR-38
tritons from (g,x)
Prob/MeV
10-1
10-3
0
50
100
150
Sec. Energy
0
20
40
60
80
100
120
140
Energy (MeV)


PHOTONUCLEAR KAERI AR-38
alphas from (g,x)
Prob/MeV
10-1
10-3
0
50
100
150
Sec. Energy
0
20
40
60
80
100
120
140
Energy (MeV)