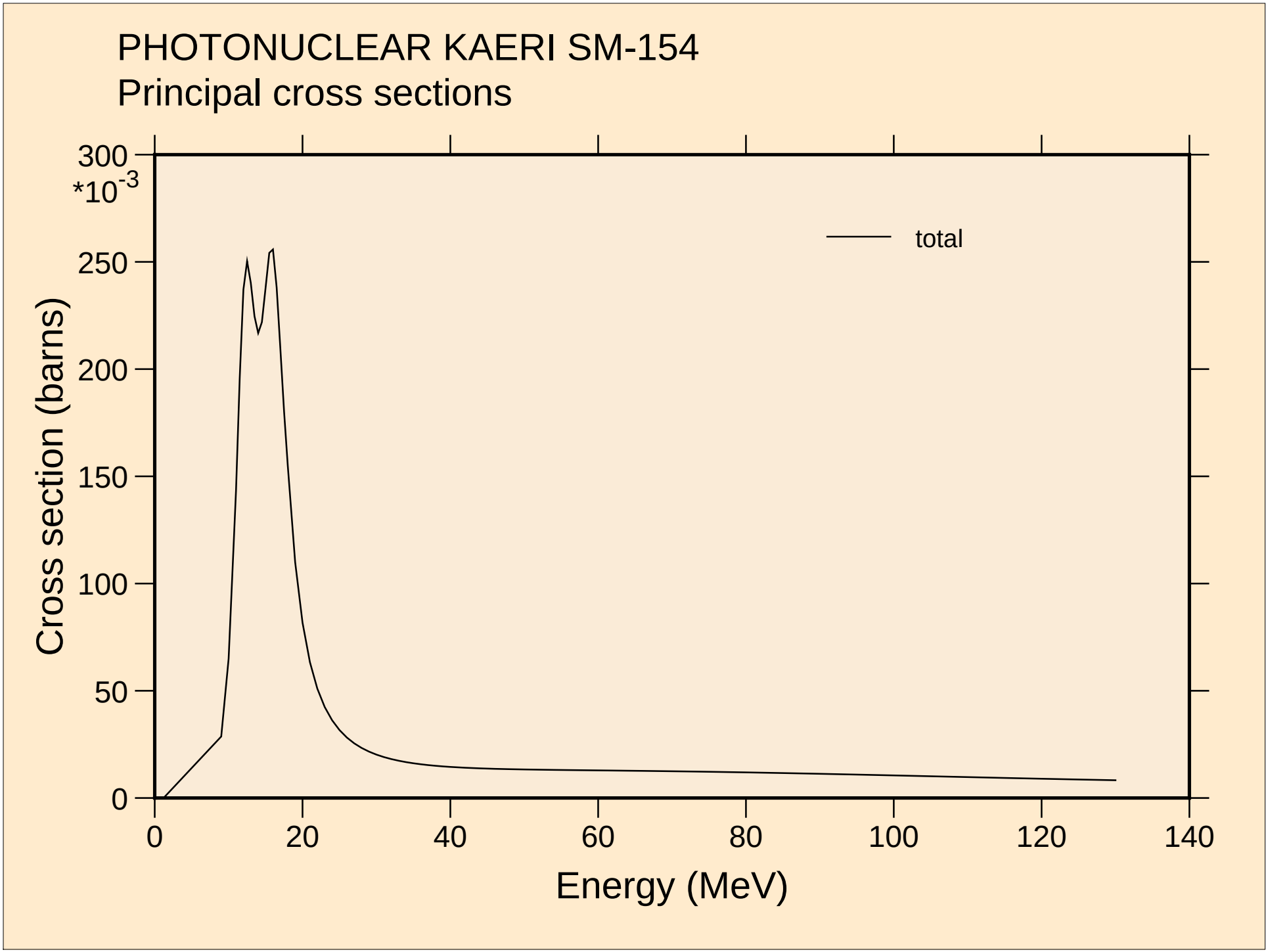
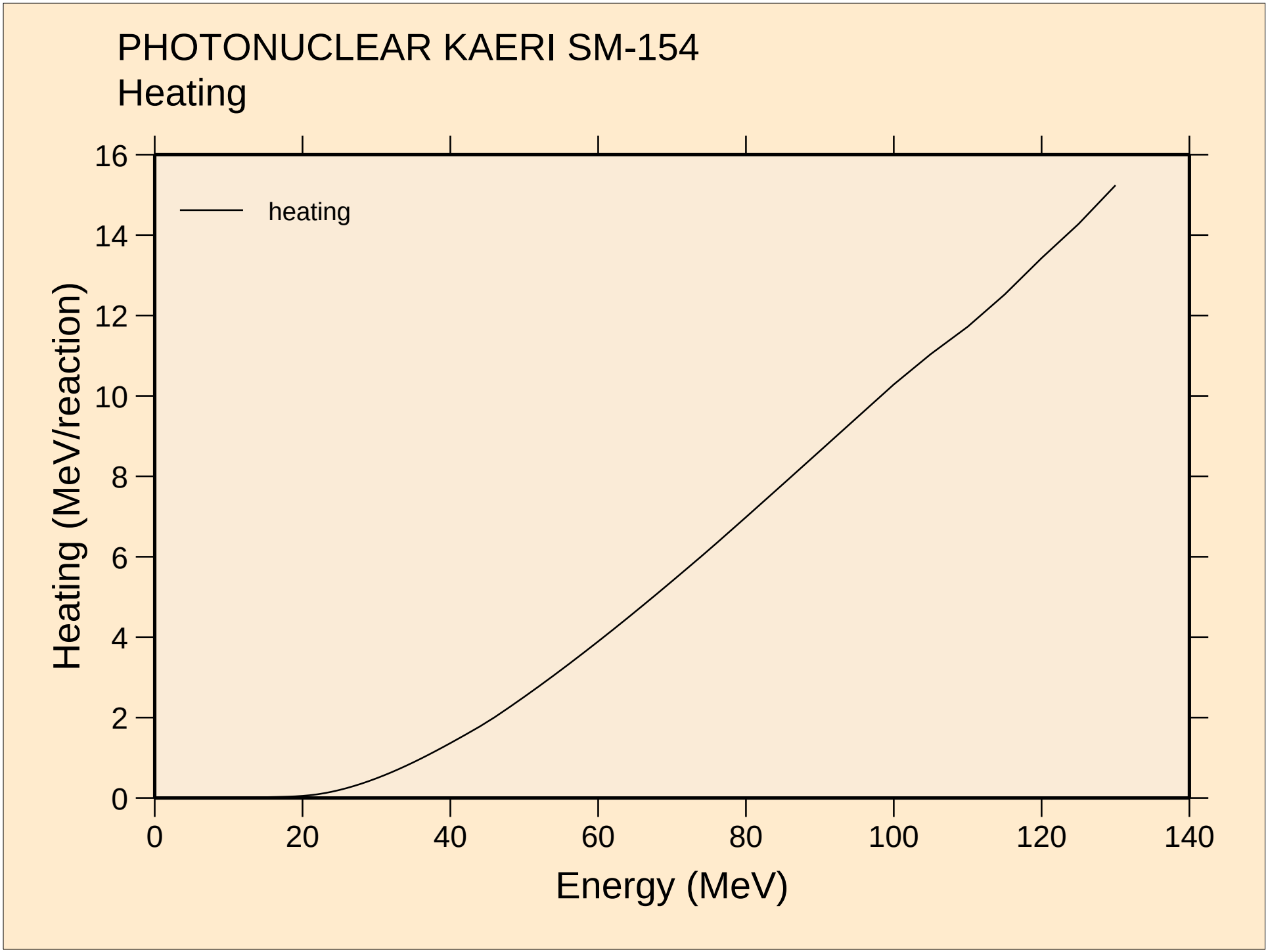
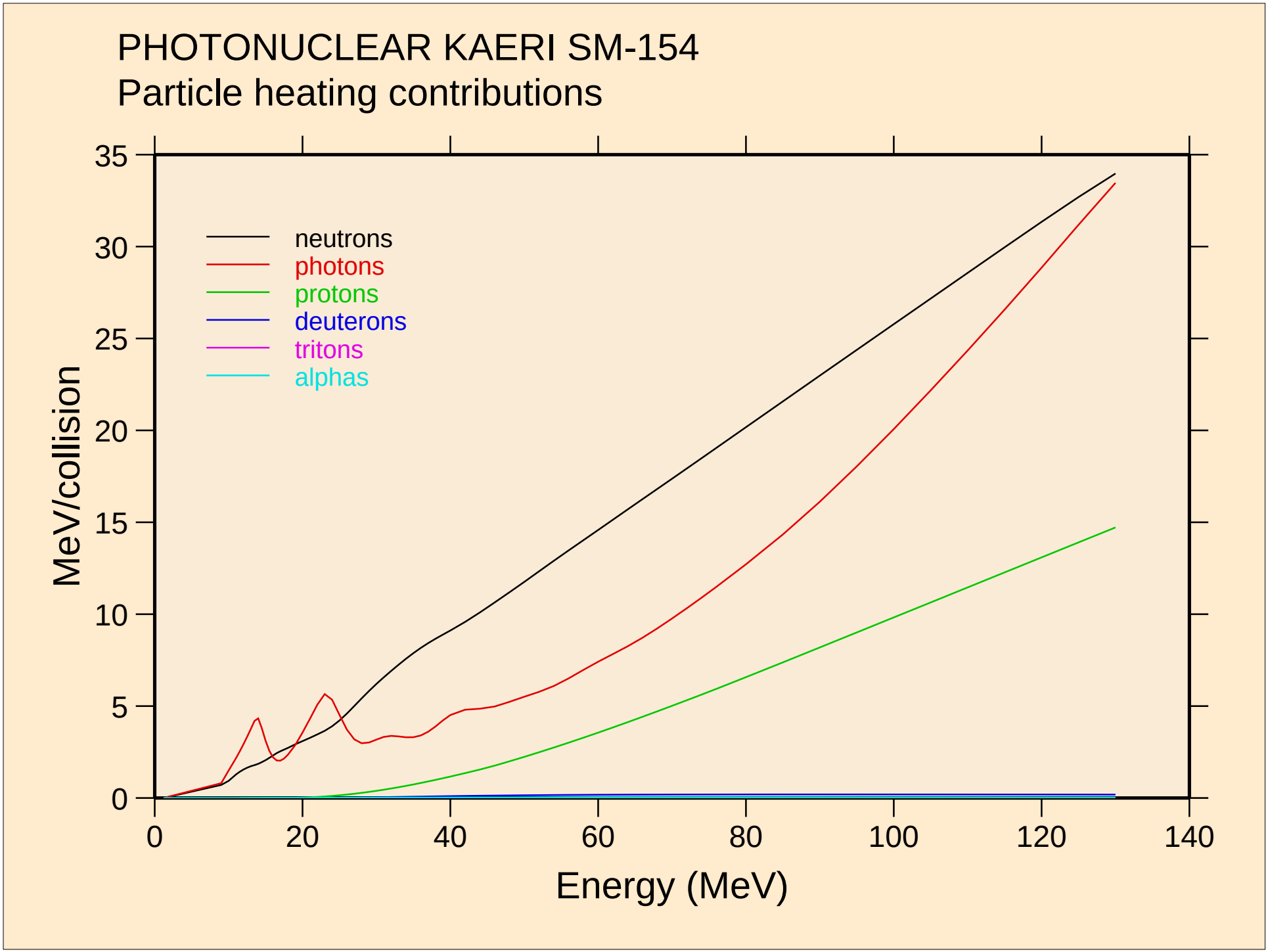
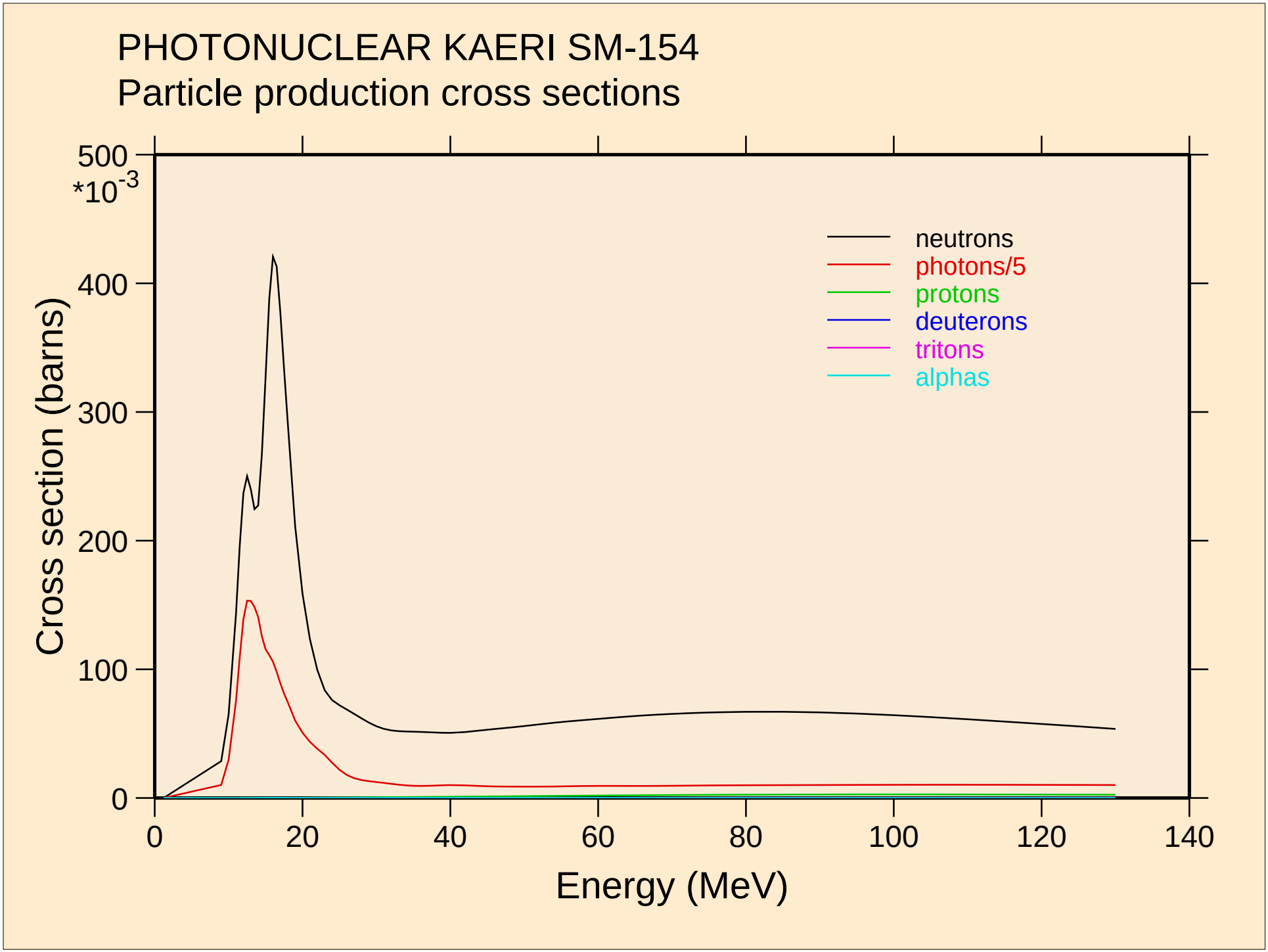
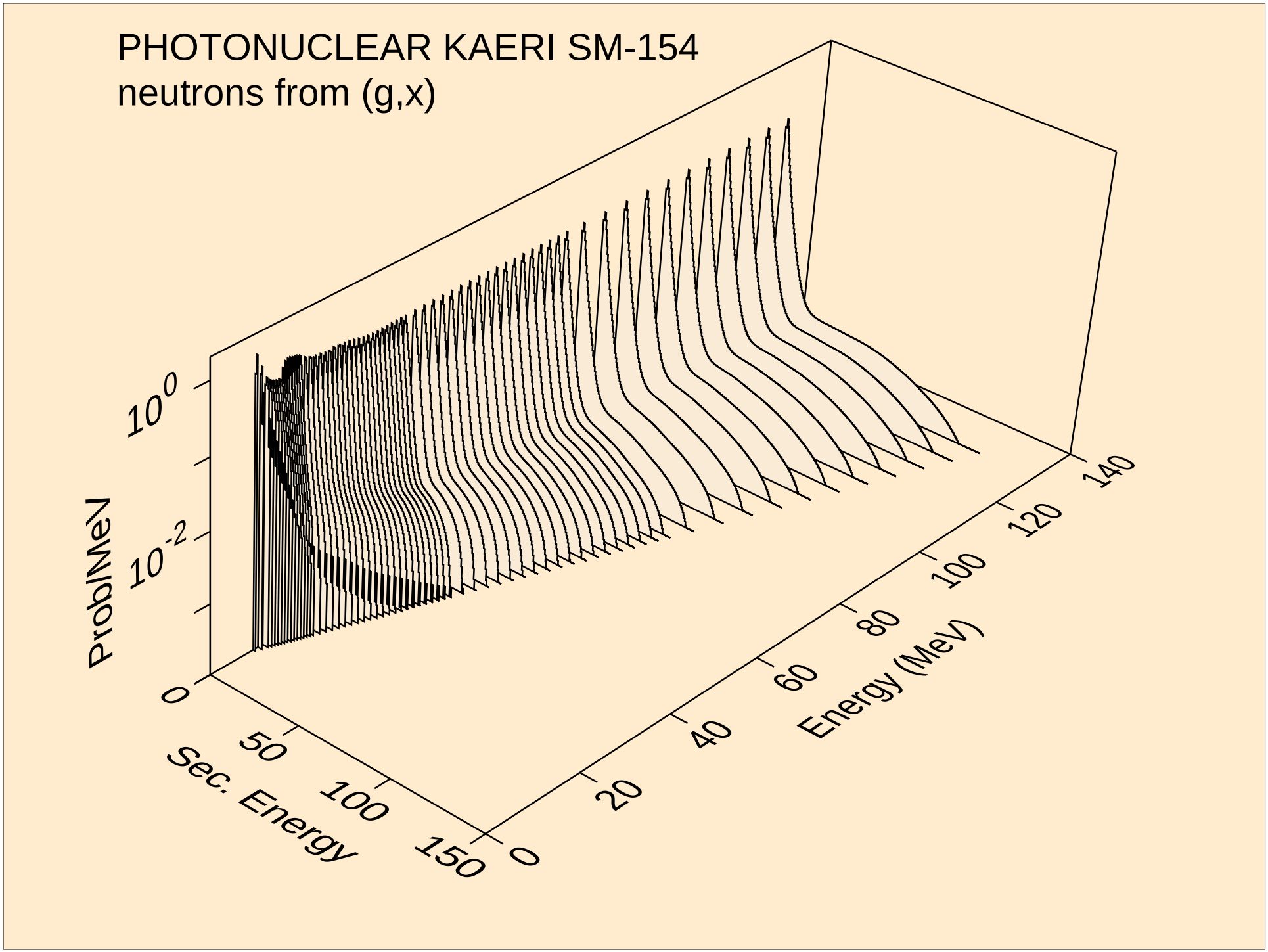
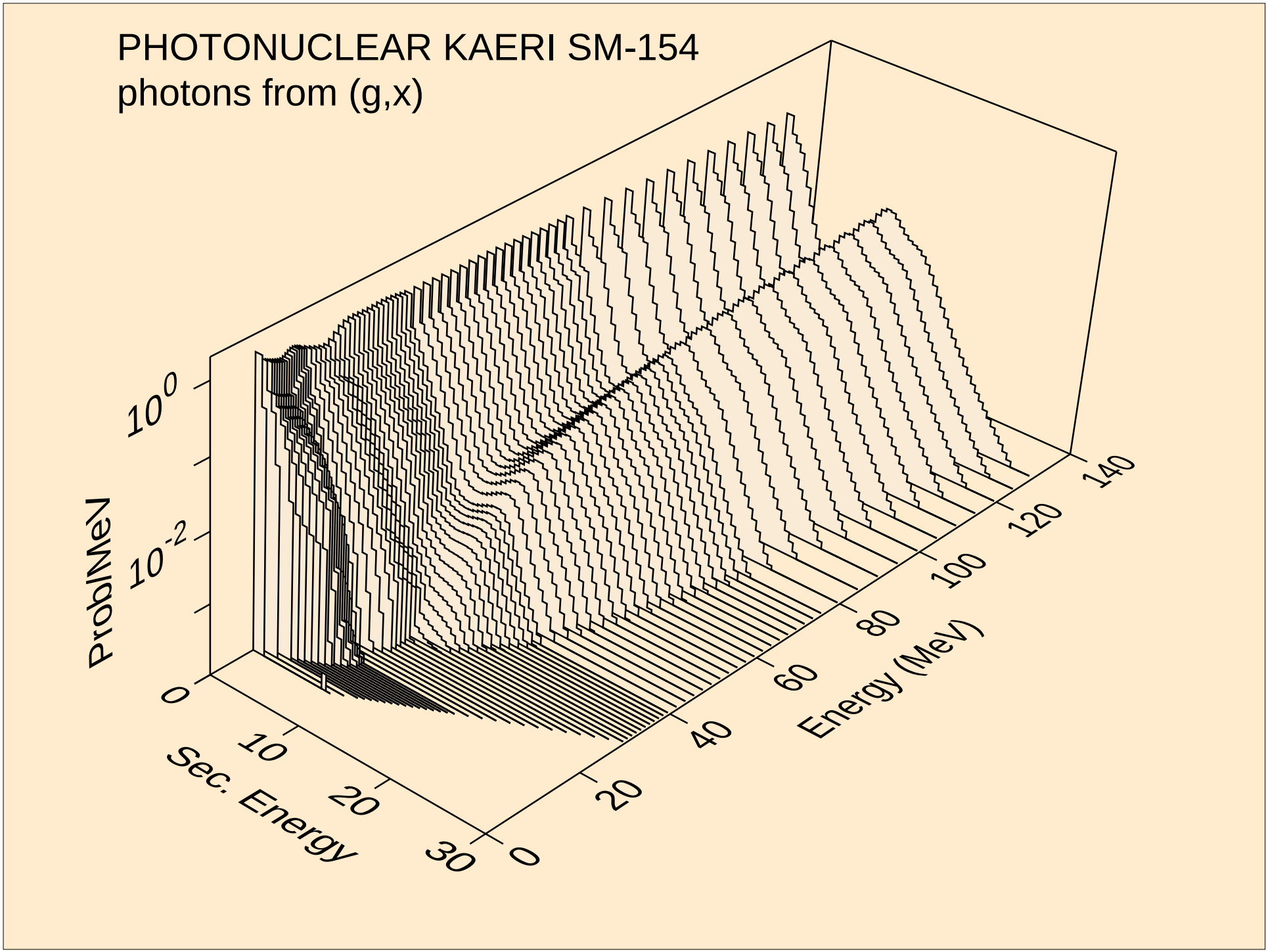

PHOTONUCLEAR KAERI SM-154
Principal cross sections
300
*10-3
250
200
150
100
50
0
Cross section (barns)
total
0
20
40
60
80
100
120
140
Energy (MeV)

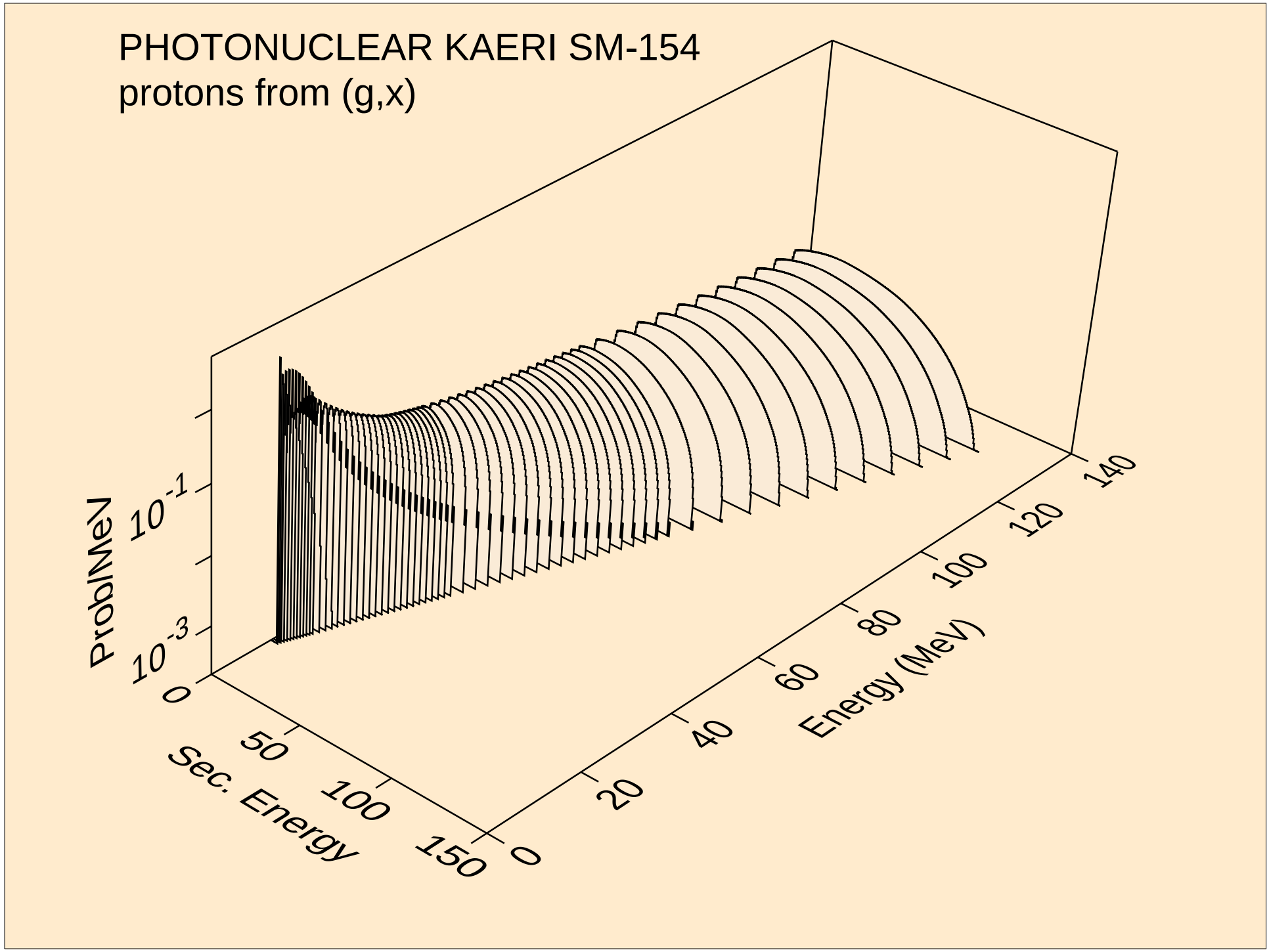

PHOTONUCLEAR KAERI SM-154
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
0
2
4
6
8
10
12
14
16
0
20
40
60
80
100
120
140

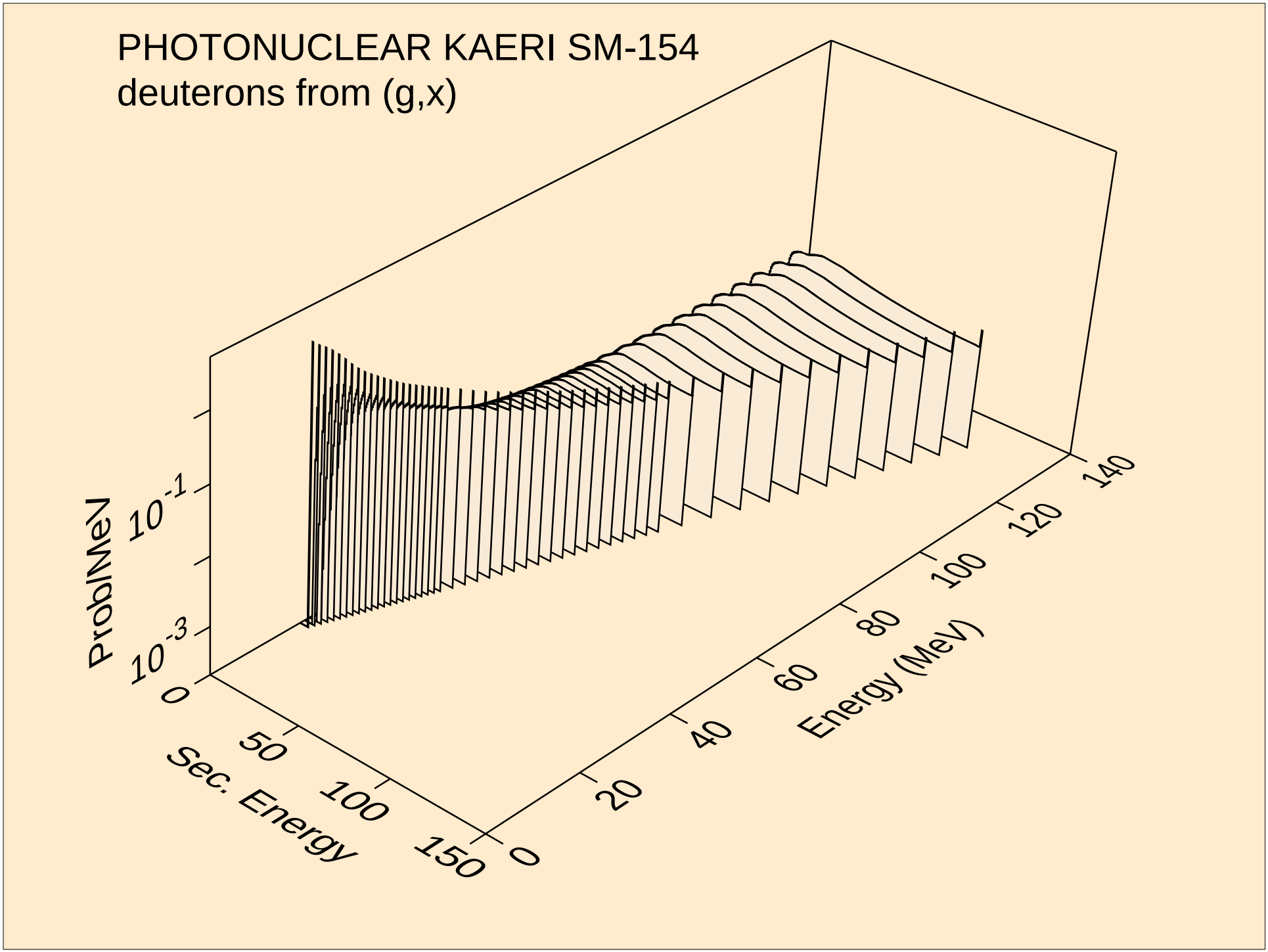

PHOTONUCLEAR KAERI SM-154
Particle heating contributions
neutrons
photons
protons
deuterons
tritons
alphas
MeV/collision
Energy (MeV)
0
5
10
15
20
25
30
35
0
20
40
60
80
100
120
140

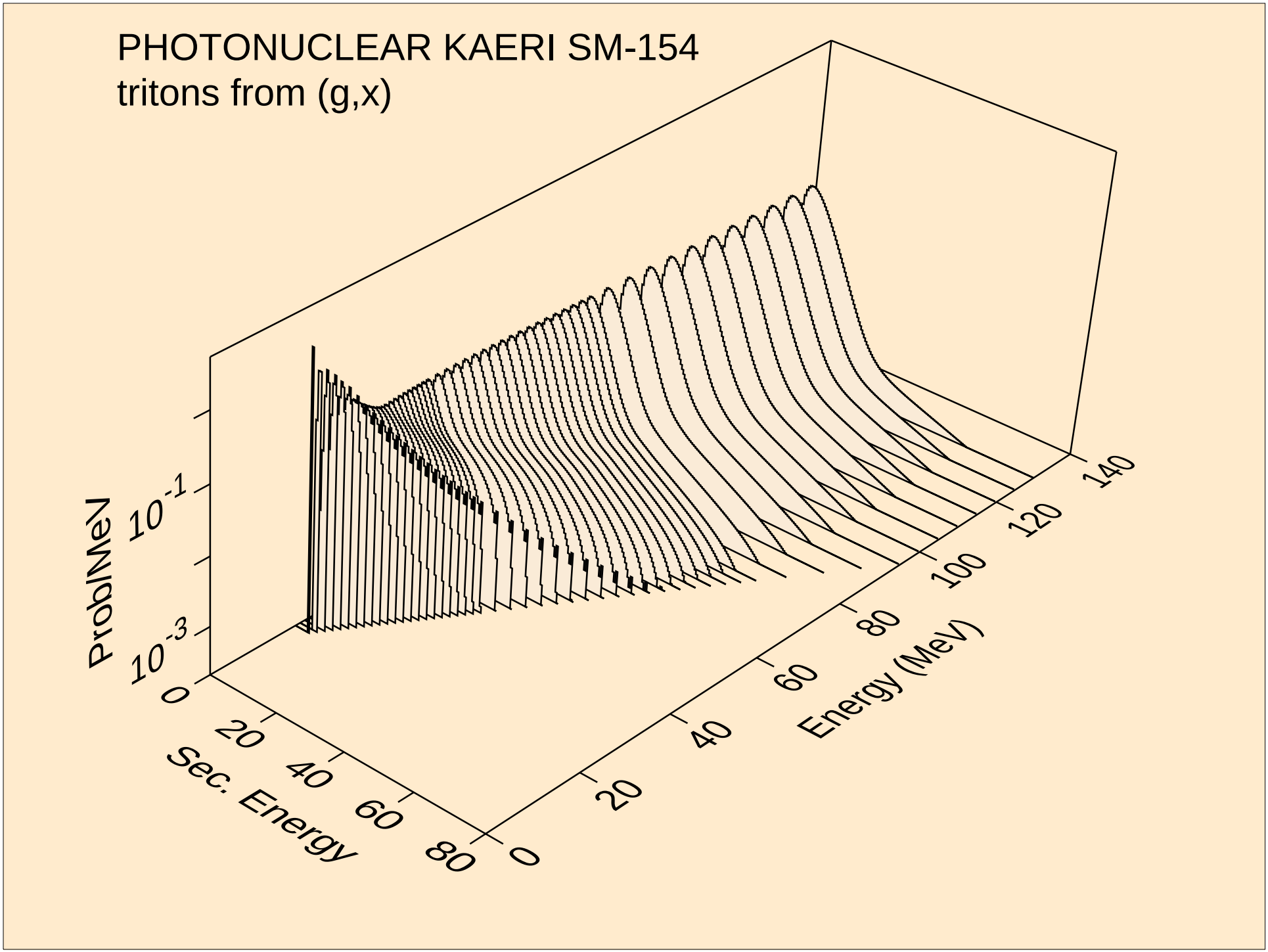

PHOTONUCLEAR KAERI SM-154
Particle production cross sections
Cross section (barns)
*10-3
500
400
300
200
100
0
0
20
40
60
80
100
120
140
Energy (MeV)
neutrons
photons/5
protons
deuterons
tritons
alphas

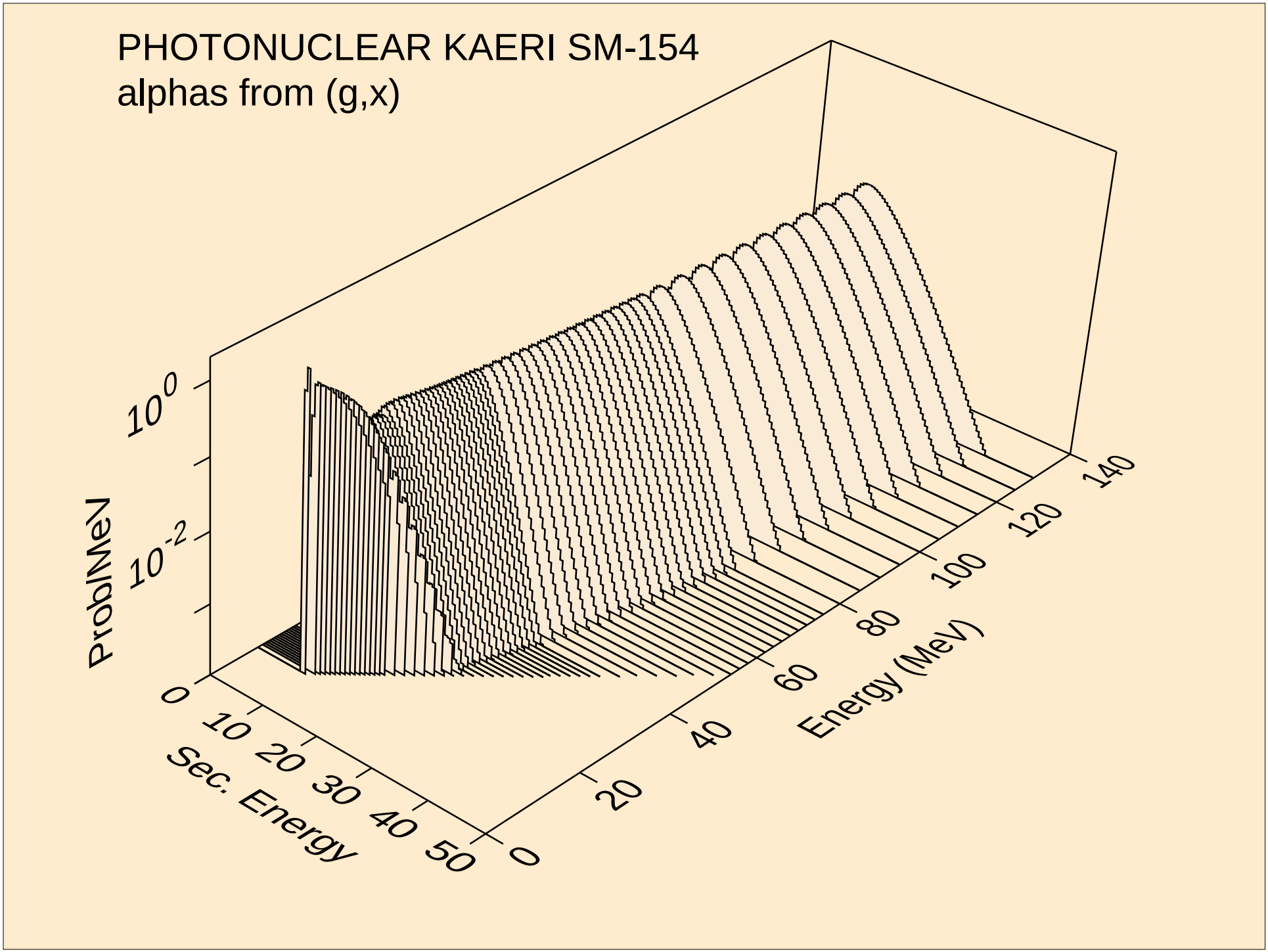

PHOTONUCLEAR KAERI SM-154
neutrons from (g,x)
Prob/MeV
10^0
10^-2
0
Sec. Energy
50
100
150
0
20
40
60
80
100
120
140
Energy (MeV)


PHOTONUCLEAR KAERI SM-154
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 SM-154
protons from (g,x)
Prob/MeV
10-1
10-3
0
Sec. Energy
50
100
150
0
20
40
60
80
100
120
140
Energy (MeV)


PHOTONUCLEAR KAERI SM-154
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 SM-154
tritons from (g,x)
Prob/MeV
10-1
10-3
0
20
40
60
80
Sec. Energy
0
20
40
60
80
100
120
140
Energy (MeV)


PHOTONUCLEAR KAERI SM-154
alphas from (g,x)
Prob/MeV
10^{0}
10^{-2}
0
10
20
30
40
50
Sec. Energy
0
20
40
60
80
100
120
140
Energy (MeV)