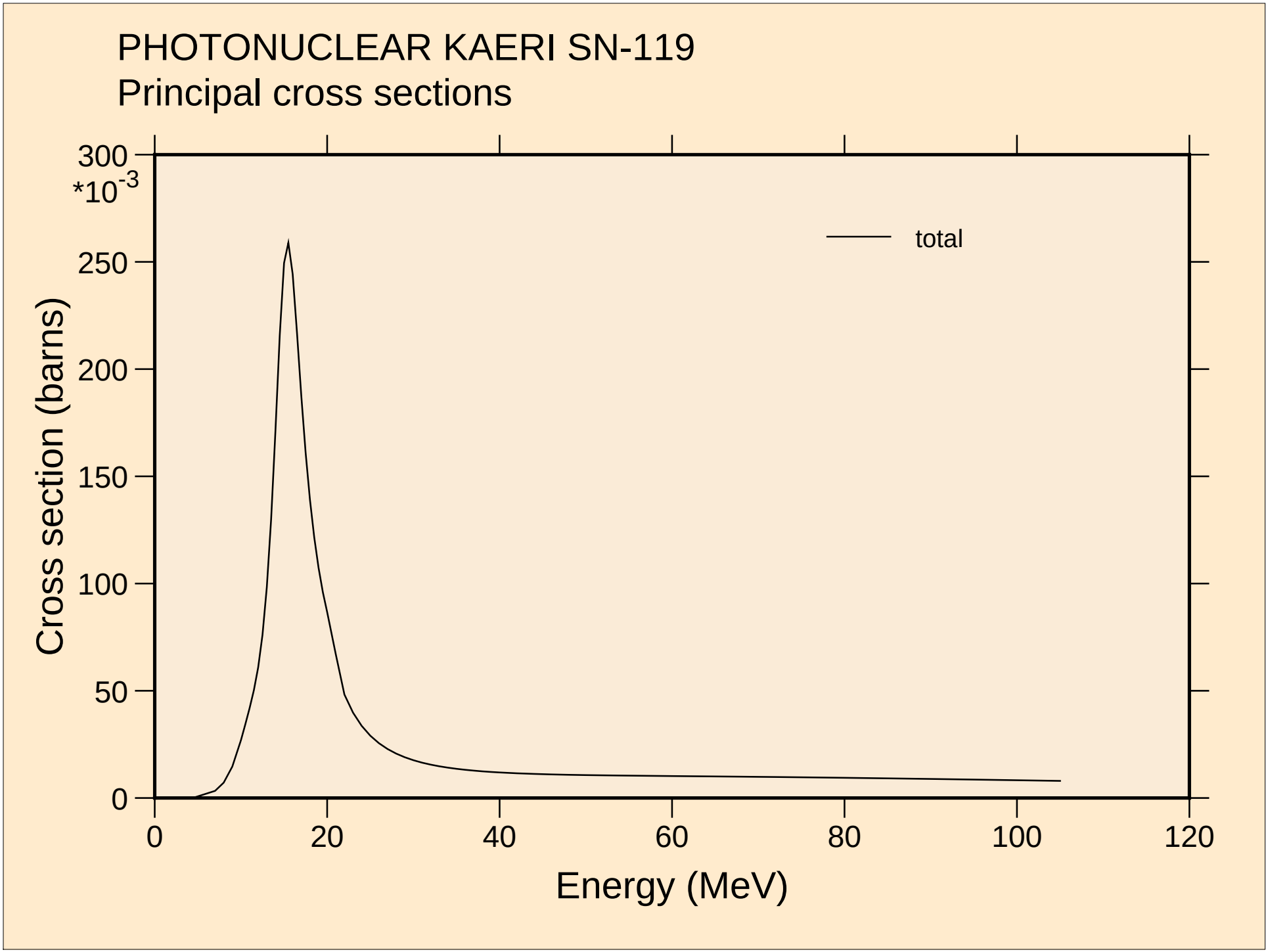
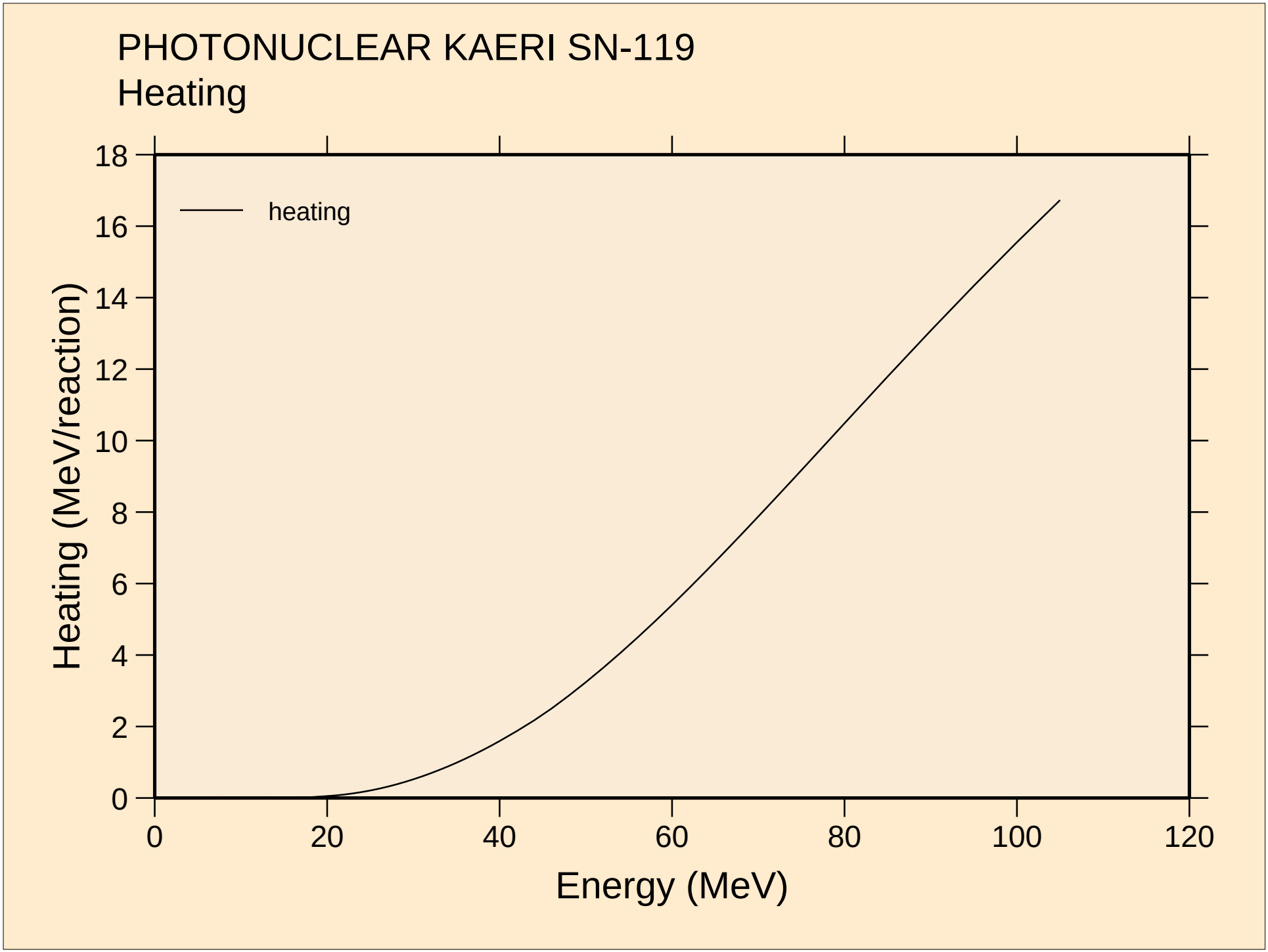
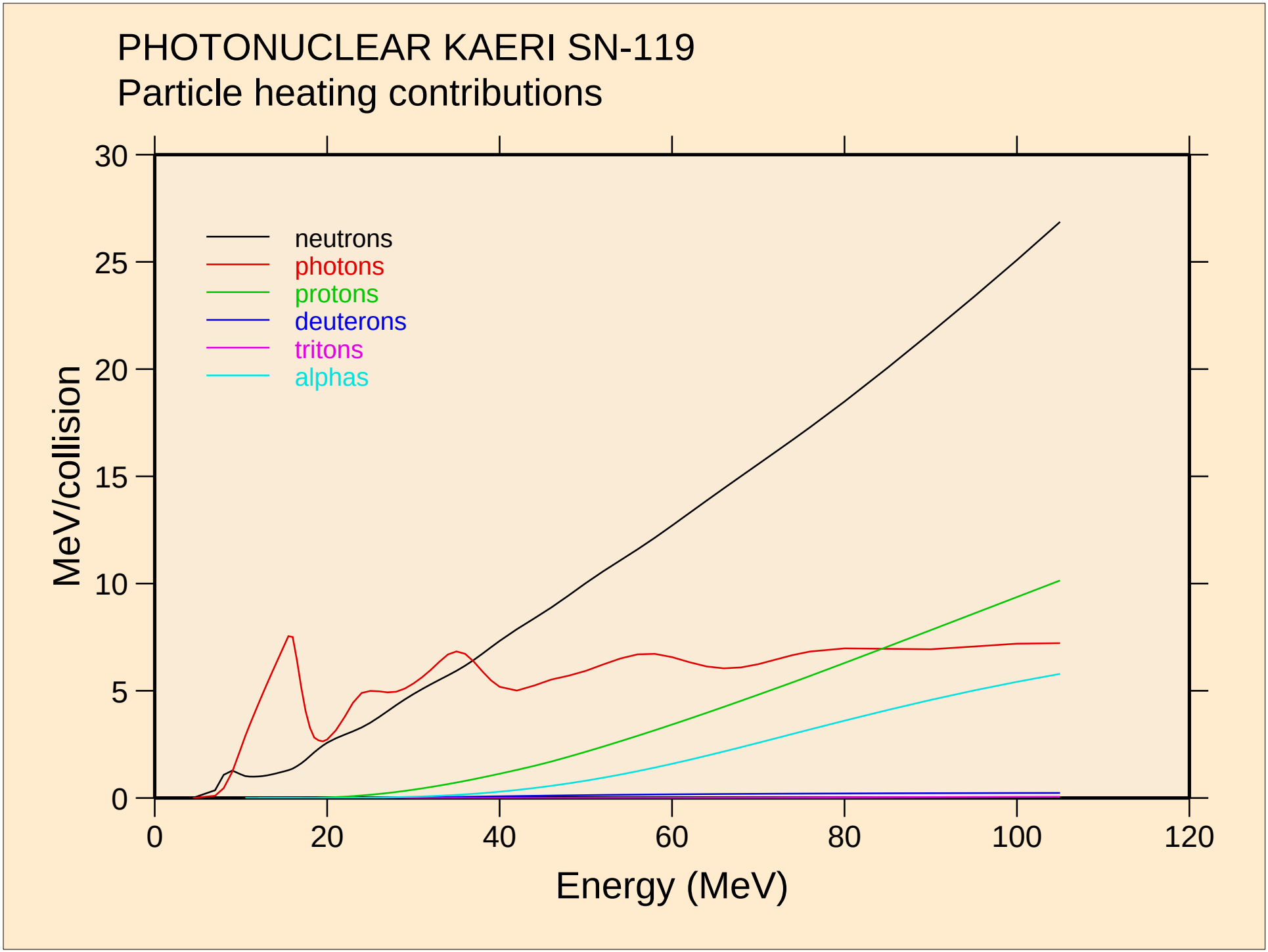
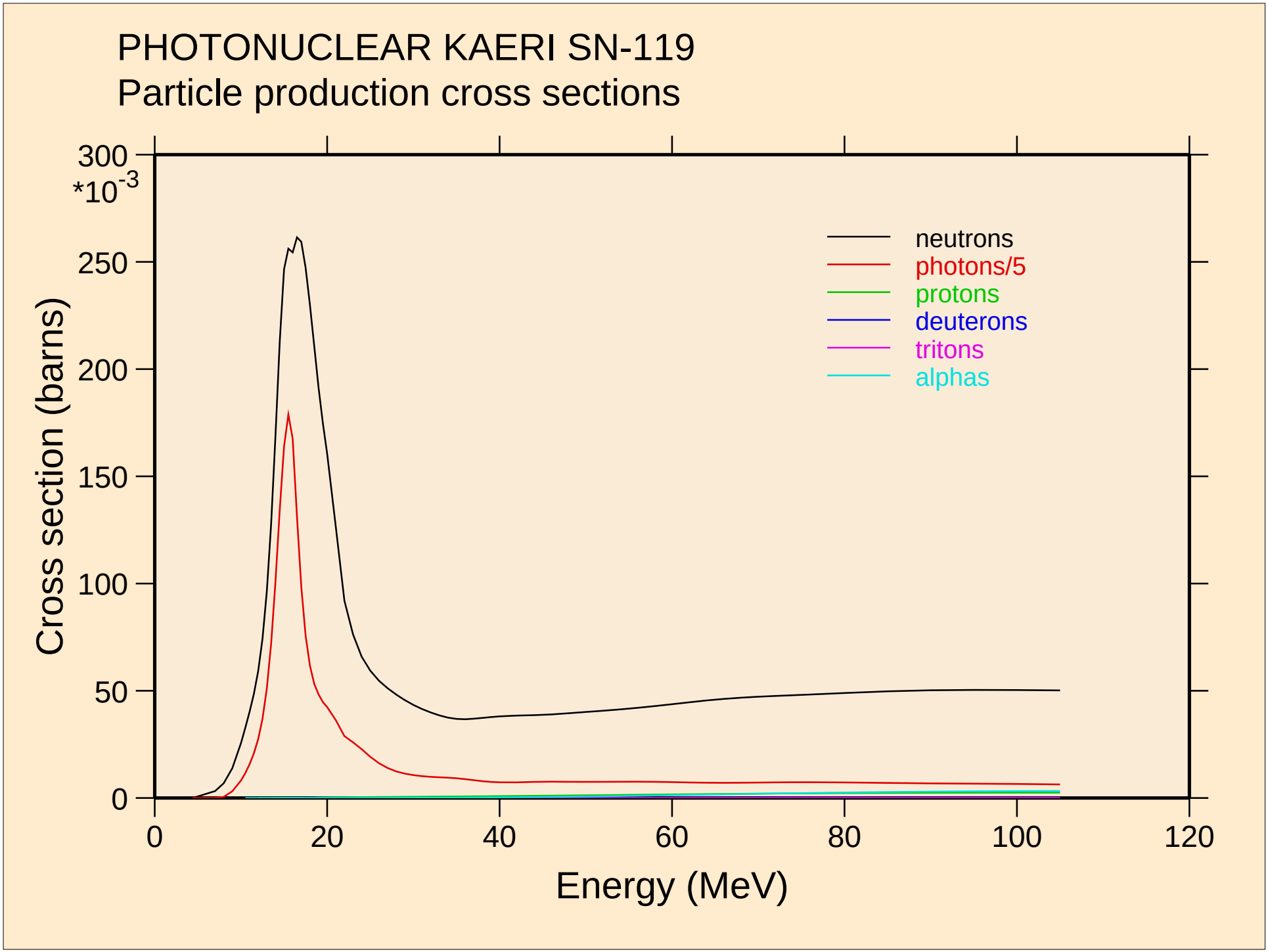
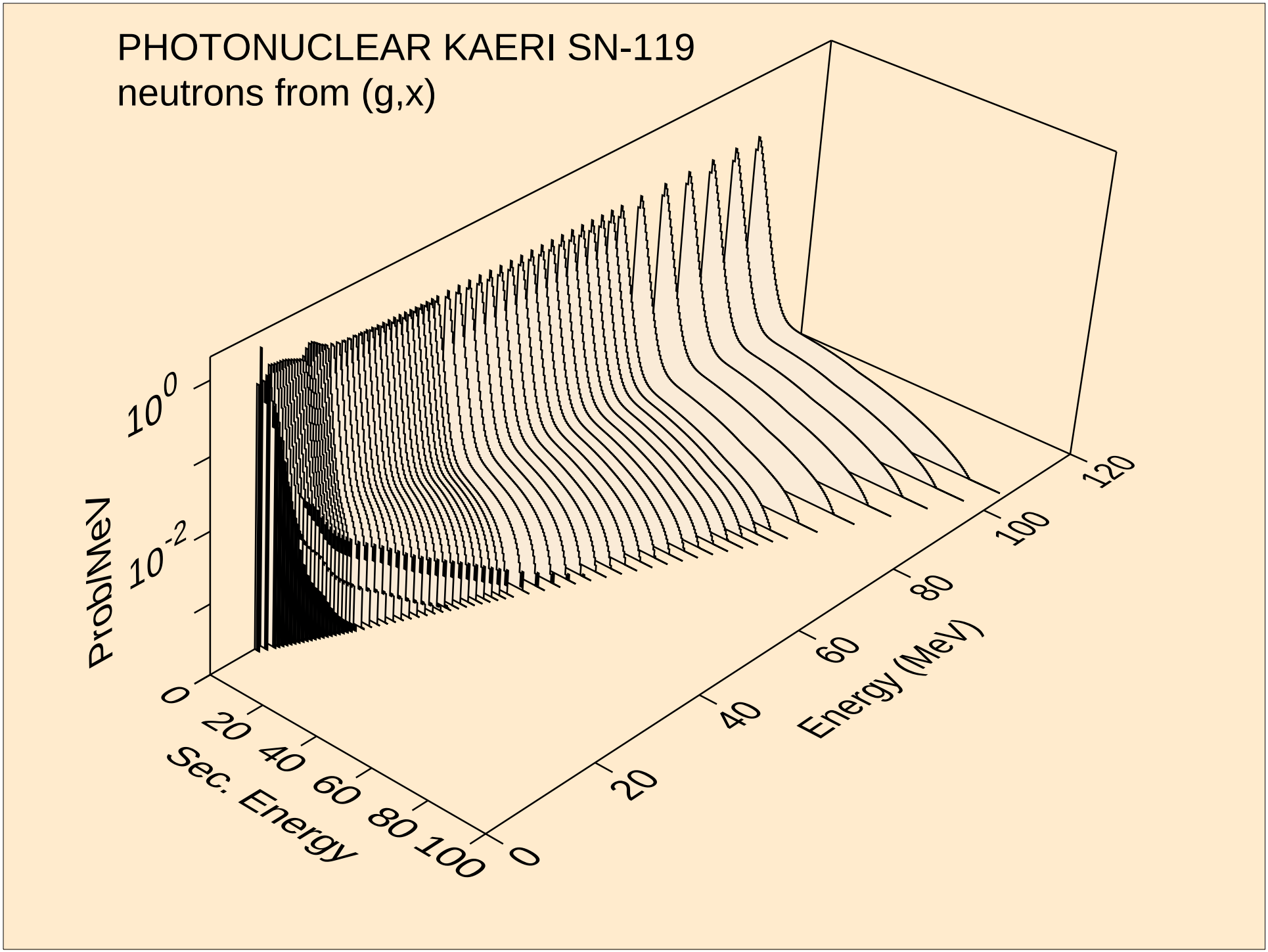
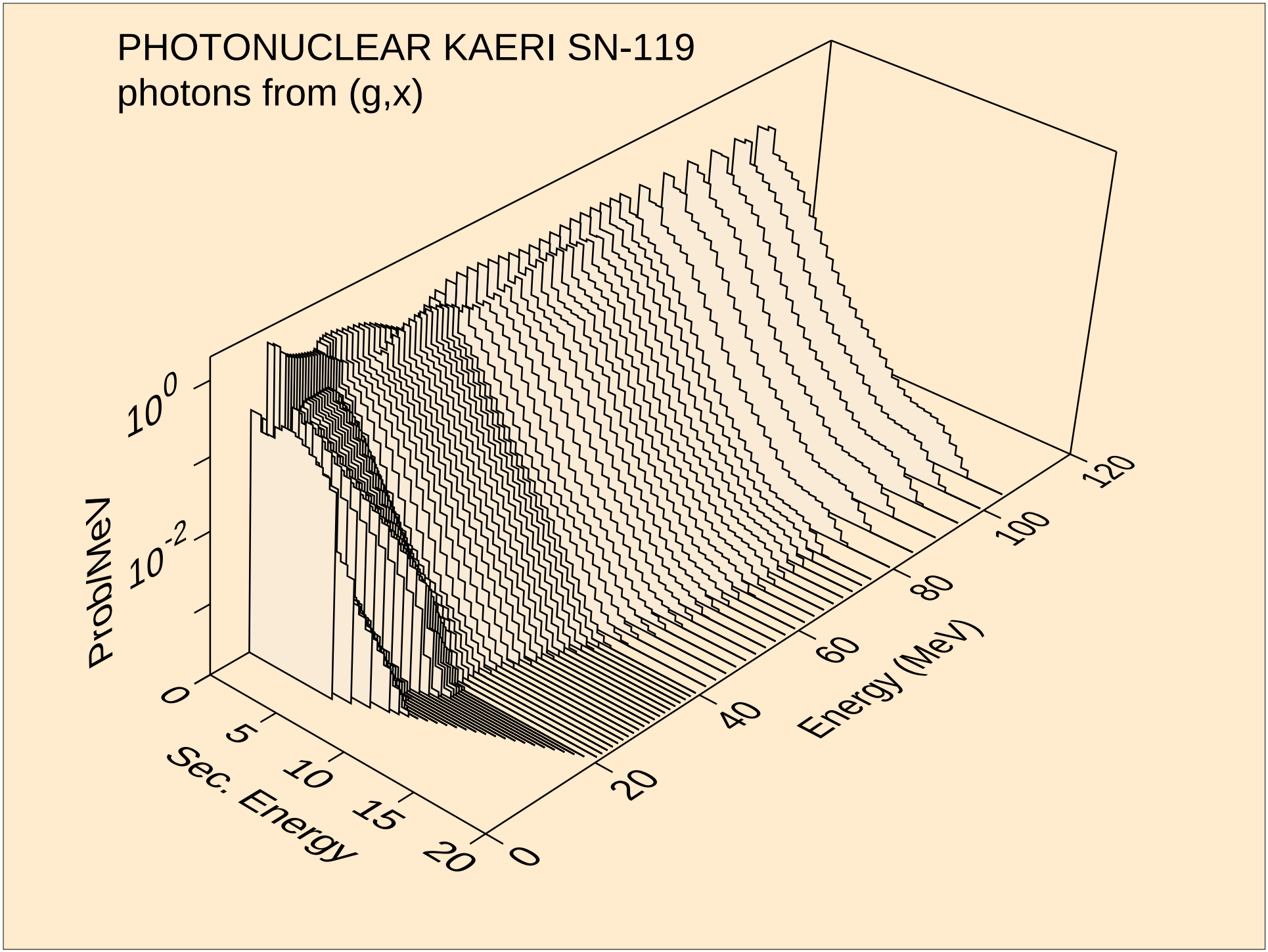

PHOTONUCLEAR KAERI SN-119
Principal cross sections
300
*10-3
250
200
150
100
50
0
Cross section (barns)
total
0
20
40
60
80
100
120
Energy (MeV)

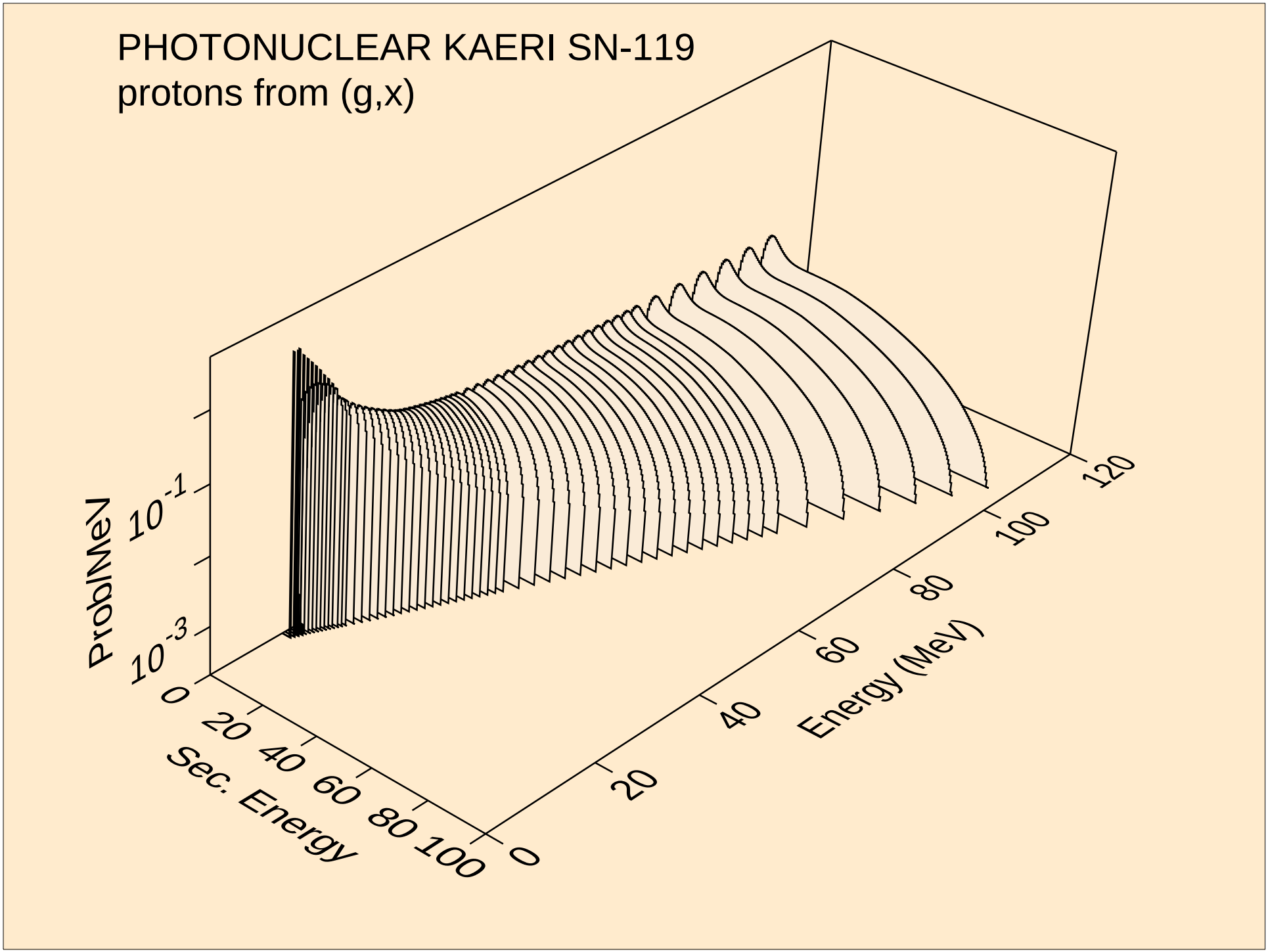

PHOTONUCLEAR KAERI SN-119
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
0
2
4
6
8
10
12
14
16
18
0
20
40
60
80
100
120

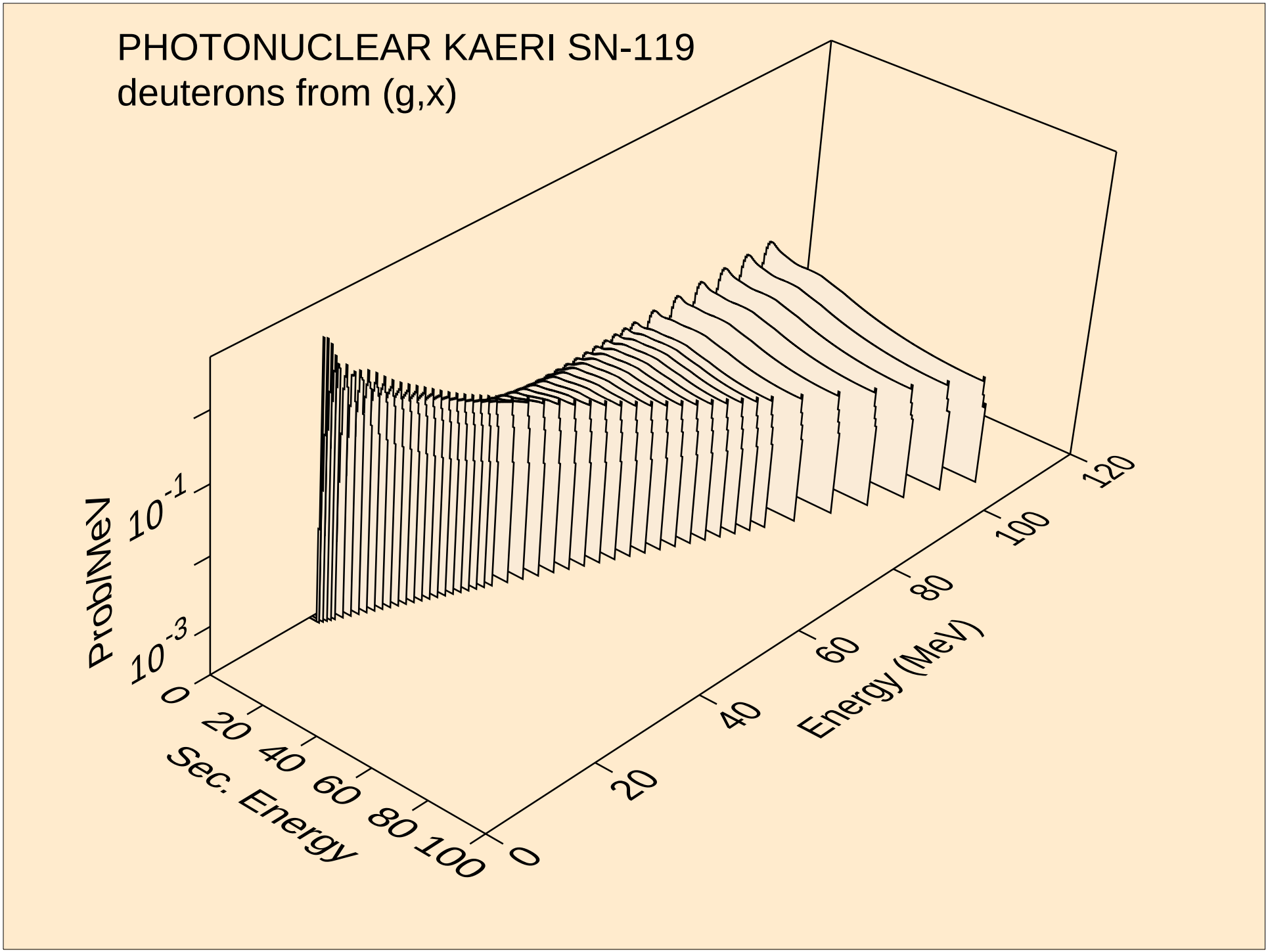

PHOTONUCLEAR KAERI SN-119
Particle heating contributions
MeV/collision
Energy (MeV)
neutrons
photons
protons
deuterons
tritons
alphas
0
5
10
15
20
25
30
0
20
40
60
80
100
120

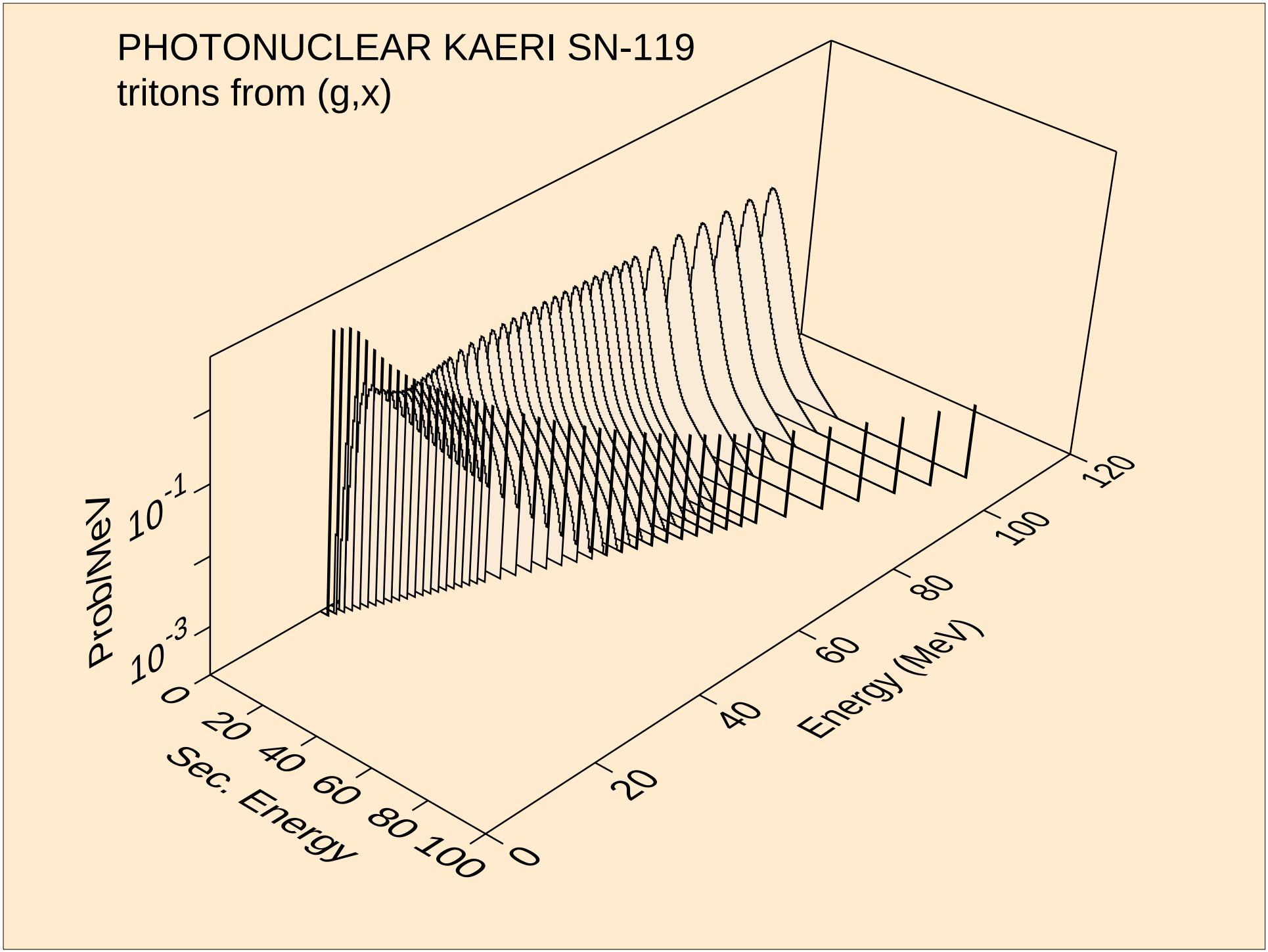

PHOTONUCLEAR KAERI SN-119
Particle production cross sections
Cross section (barns)
*10-3
300
250
200
150
100
50
0
0
20
40
60
80
100
120
Energy (MeV)
neutrons
photons/5
protons
deuterons
tritons
alphas

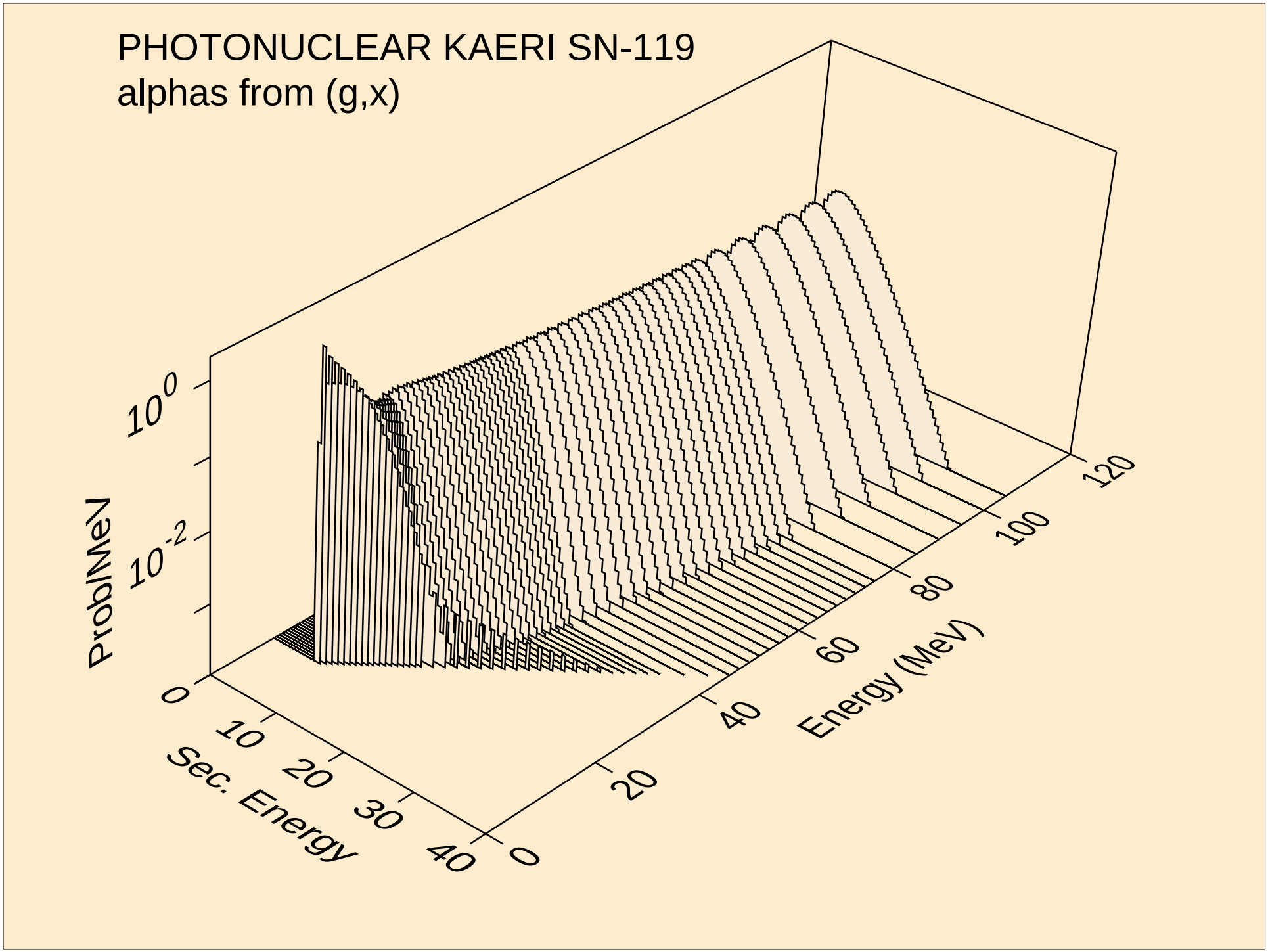

PHOTONUCLEAR KAERI SN-119
neutrons from (g,x)
Prob/MeV
10^{0}
10^{-2}
0
20
40
60
80
100
Sec. Energy
0
20
40
60
80
100
120
Energy (MeV)


PHOTONUCLEAR KAERI SN-119
photons from (g,x)
Prob/MeV
10^{0}
10^{-2}
0
5
10
15
20
Sec. Energy
0
20
40
60
80
100
120
Energy (MeV)


PHOTONUCLEAR KAERI SN-119
protons from (g,x)
Prob/MeV
10-1
10-3
0
20
40
60
80
100
Sec. Energy
0
20
40
60
80
100
120
Energy (MeV)


PHOTONUCLEAR KAERI SN-119
deuterons from (g,x)
Prob/MeV
10-1
10-3
0
20
40
60
80
100
Sec. Energy
0
20
40
60
80
100
120
Energy (MeV)


PHOTONUCLEAR KAERI SN-119
tritons from (g,x)
Prob/MeV
10-1
10-3
0
20
40
60
80
100
Sec. Energy
0
20
40
60
80
100
120
Energy (MeV)


PHOTONUCLEAR KAERI SN-119
alphas from (g,x)
Prob/MeV
10^{0}
10^{-2}
0
10
20
30
40
Sec. Energy
0
20
40
60
80
100
120
Energy (MeV)