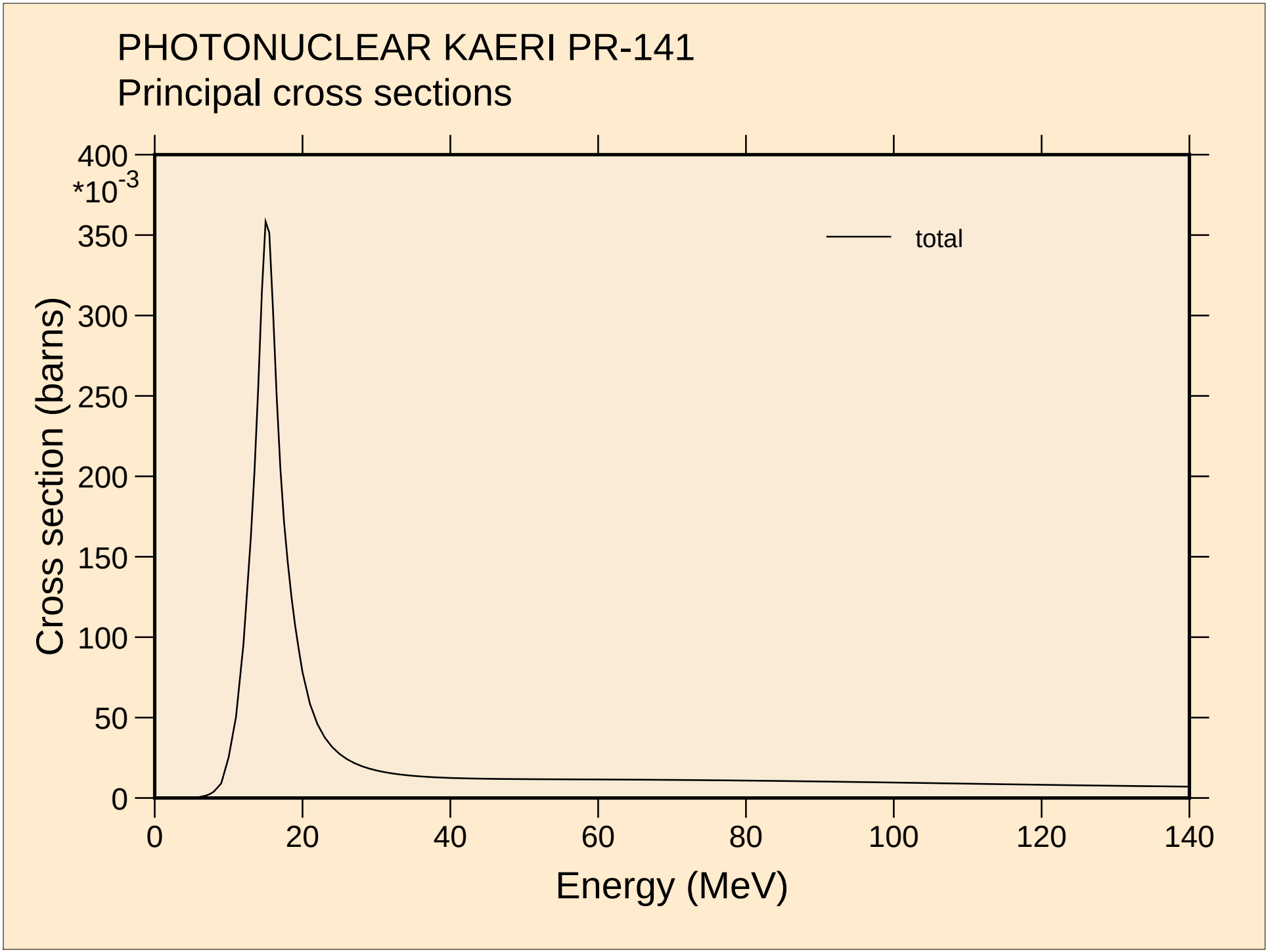
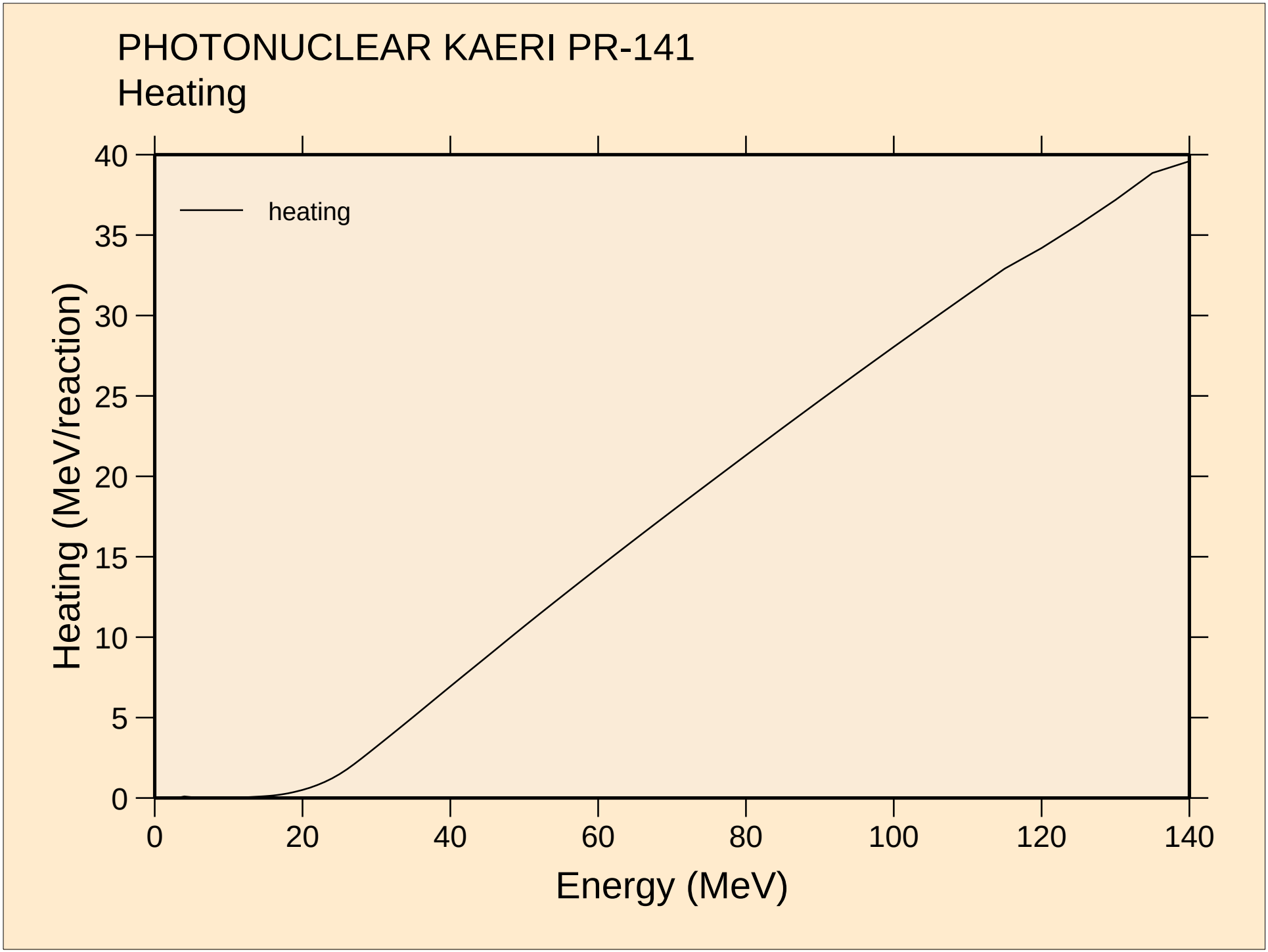
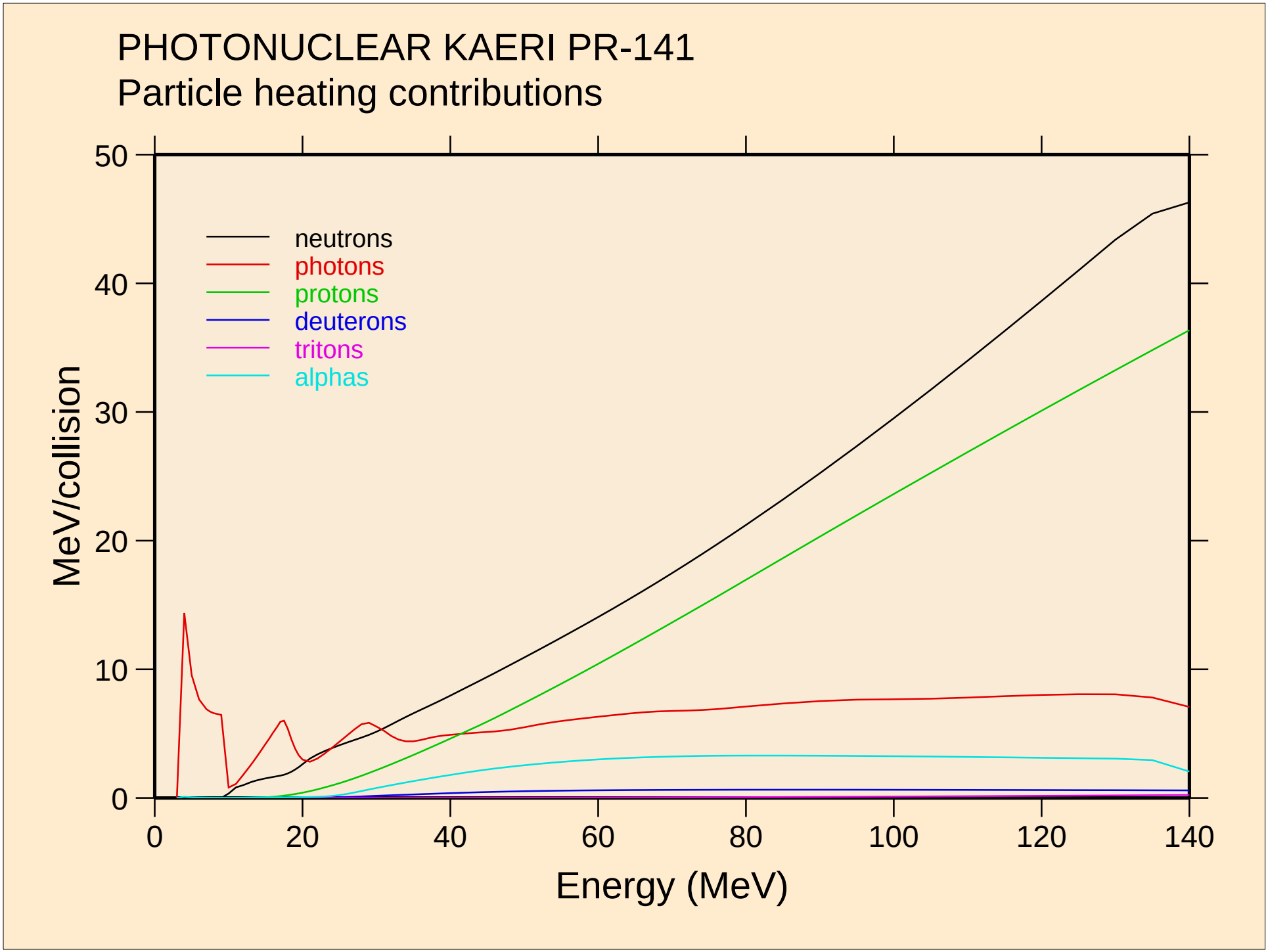
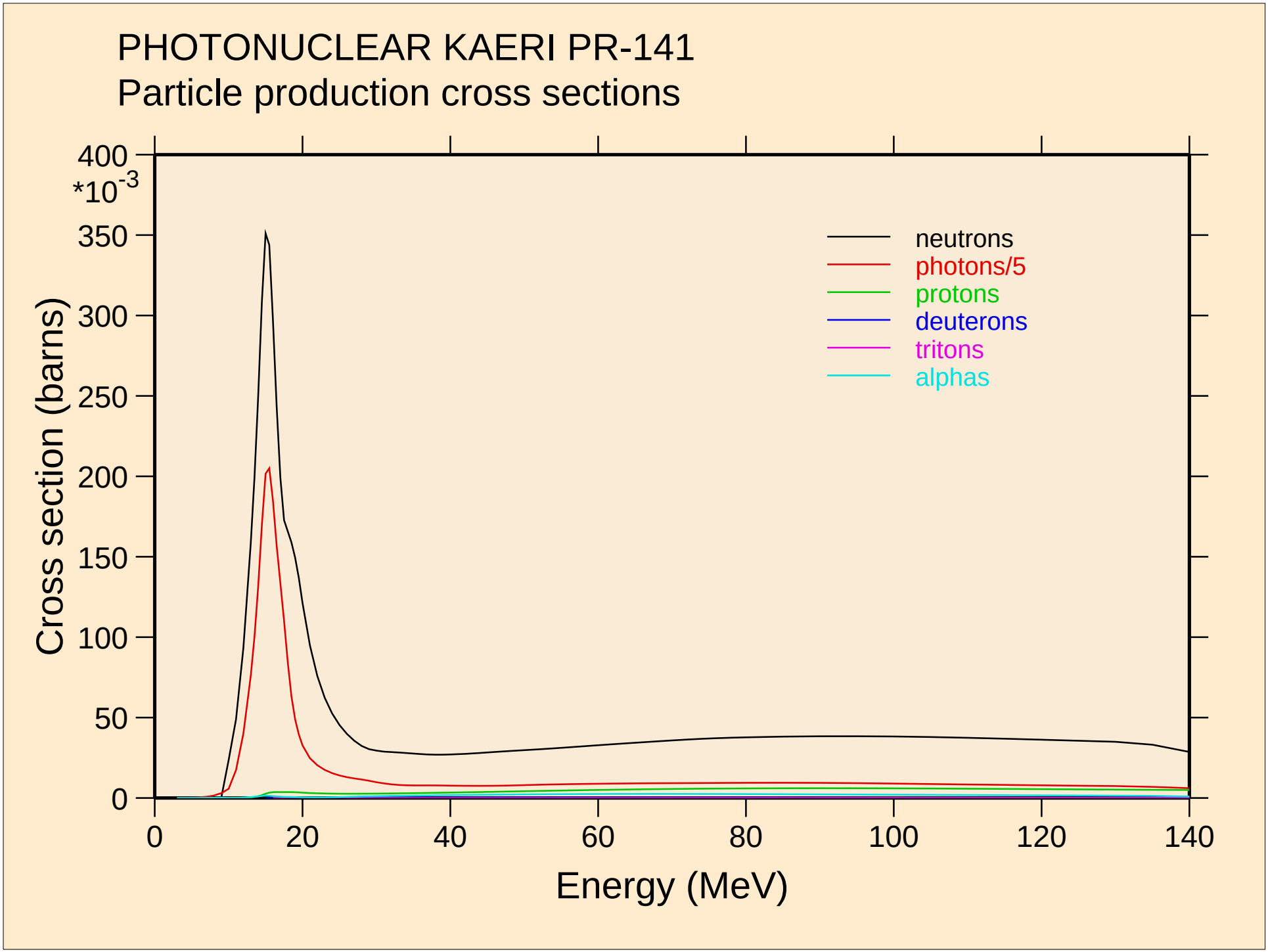
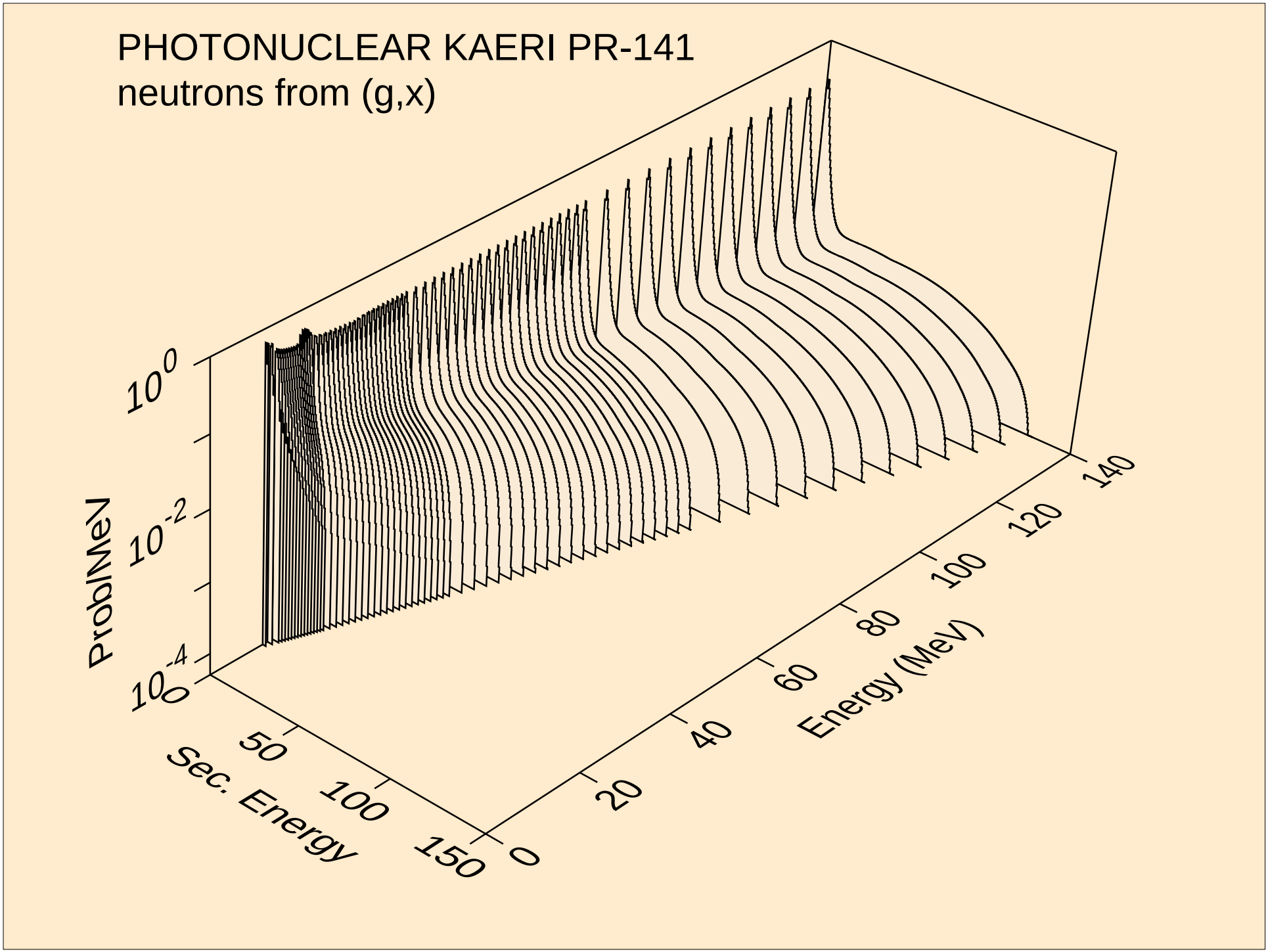
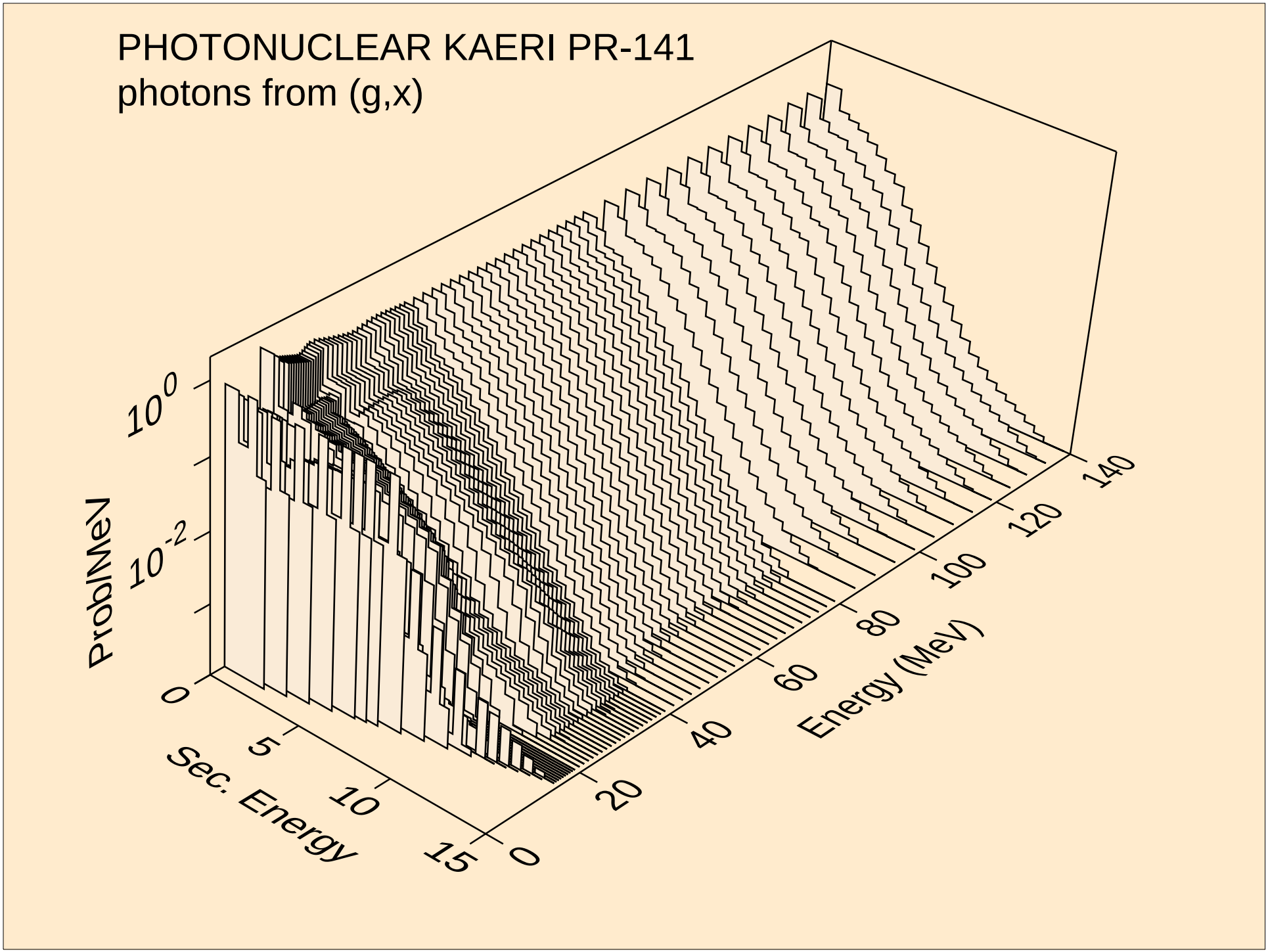

PHOTONUCLEAR KAERI PR-141
Principal cross sections
Cross section (barns)
*10-3
400
350
300
250
200
150
100
50
0
0
20
40
60
80
100
120
140
Energy (MeV)
total

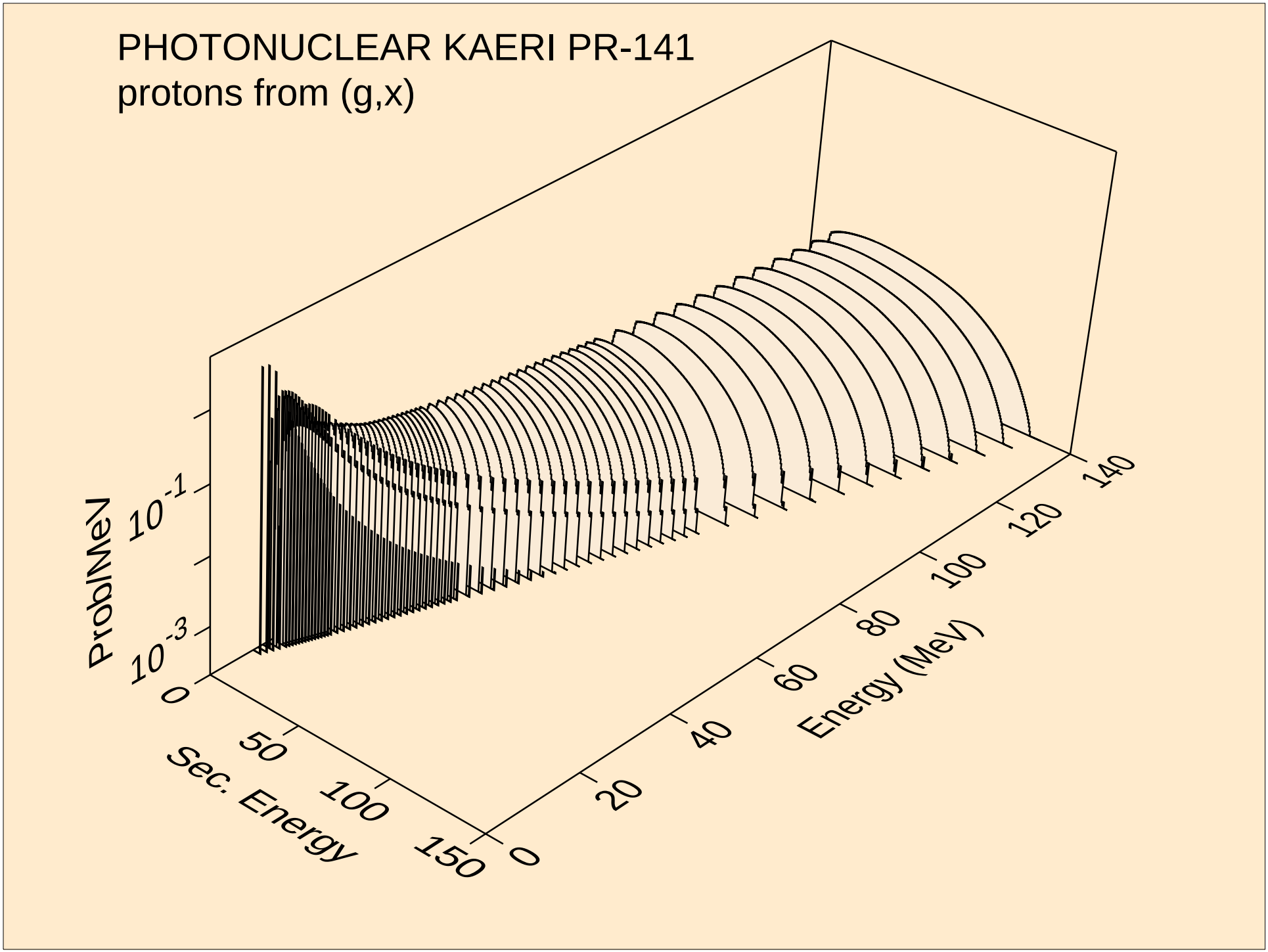

PHOTONUCLEAR KAERI PR-141
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
0
5
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140

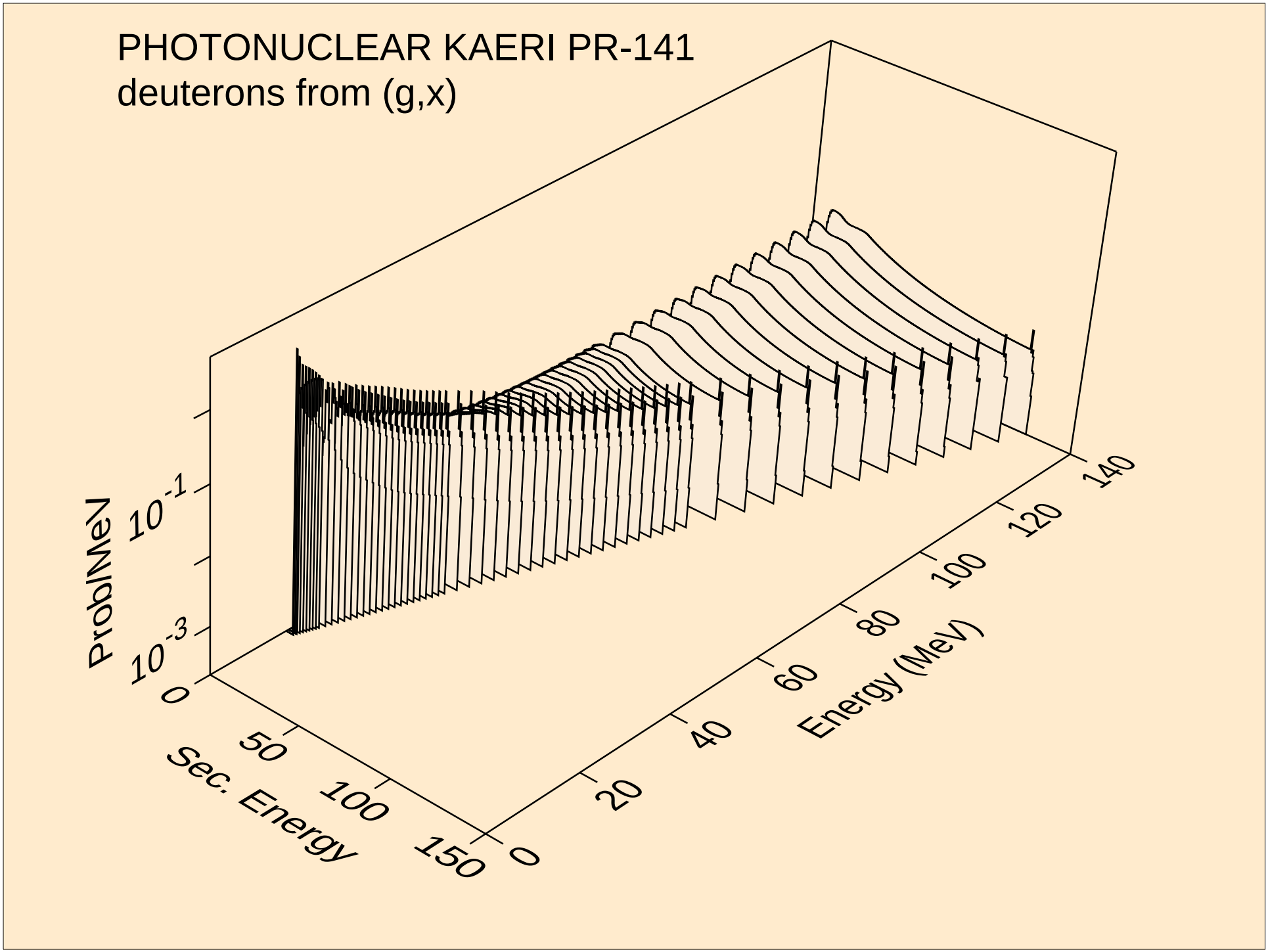

PHOTONUCLEAR KAERI PR-141
Particle heating contributions
neutrons
photons
protons
deuterons
tritons
alphas
MeV/collision
Energy (MeV)
0
10
20
30
40
50
0
20
40
60
80
100
120
140

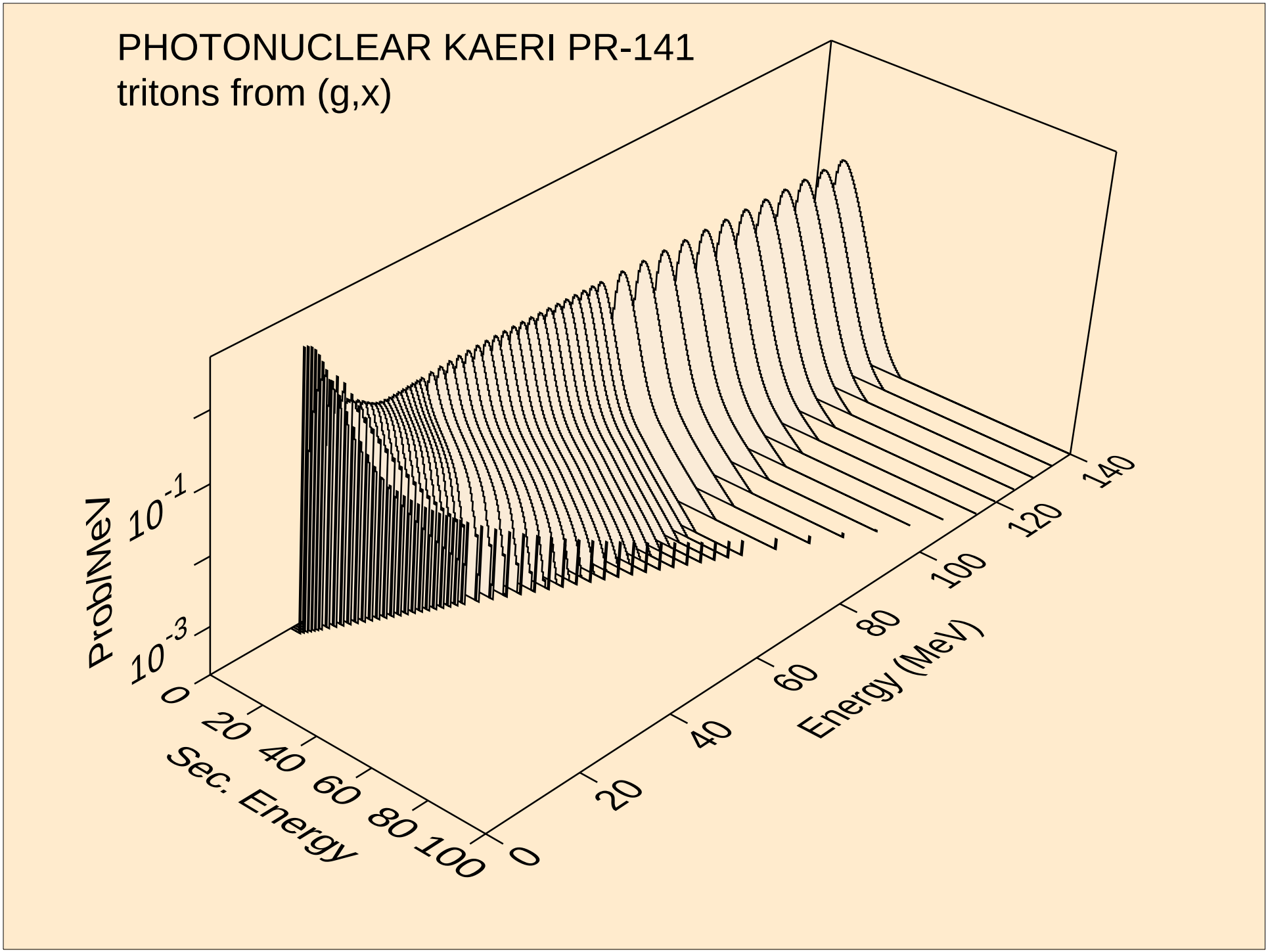

PHOTONUCLEAR KAERI PR-141
Particle production cross sections
Cross section (barns)
*10-3
400
350
300
250
200
150
100
50
0
0
20
40
60
80
100
120
140
Energy (MeV)
neutrons
photons/5
protons
deuterons
tritons
alphas

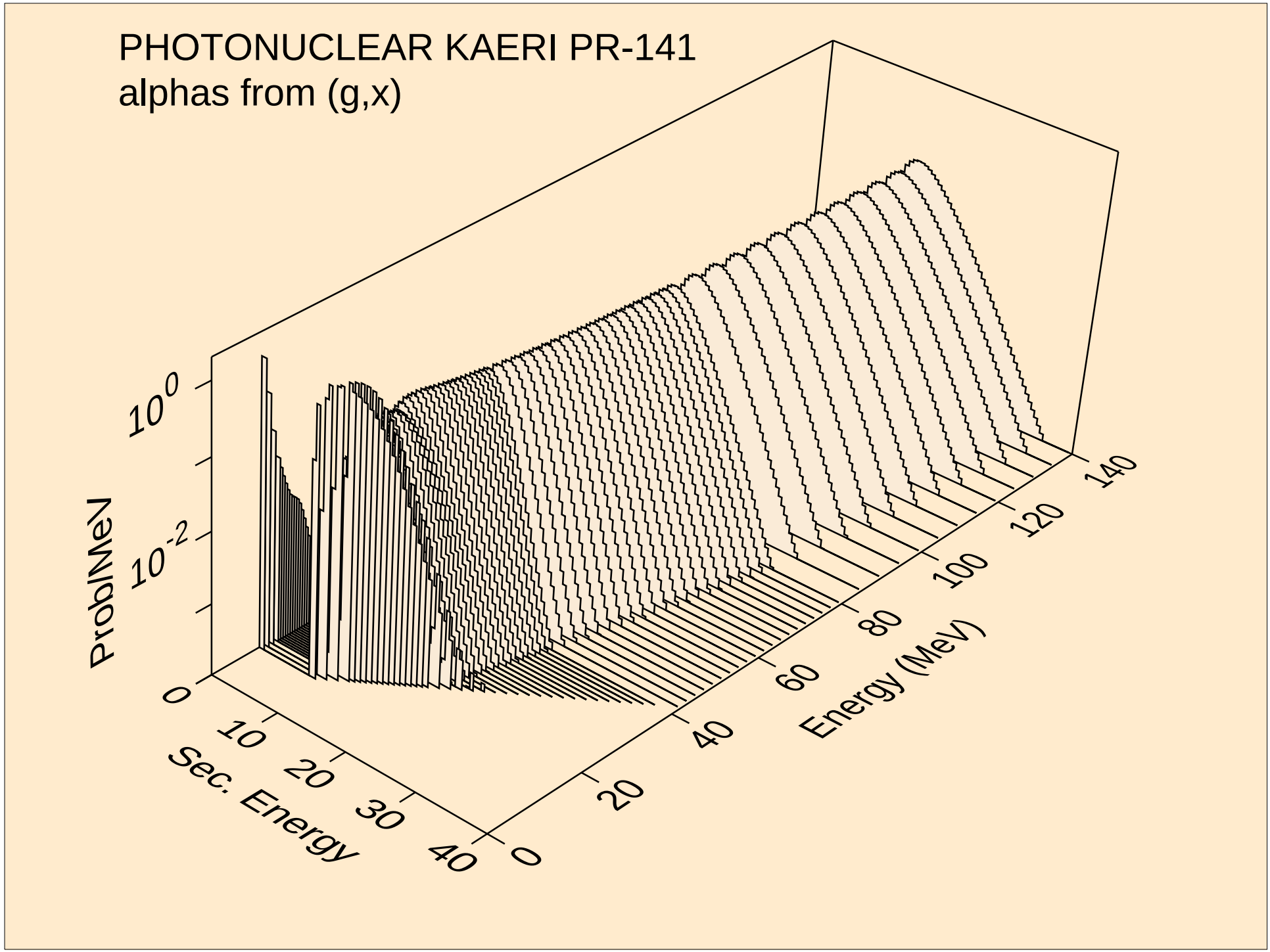

PHOTONUCLEAR KAERI PR-141
neutrons from (g,x)
Prob/MeV
10^{0}
10^{-2}
10^{-4}
0
50
100
150
Sec. Energy
0
20
40
60
80
100
120
140
Energy (MeV)


PHOTONUCLEAR KAERI PR-141
photons from (g,x)
Prob/MeV
10^0
10^-2
0
Sec. Energy
5
10
15
0
20
40
60
80
100
120
140
Energy (MeV)


PHOTONUCLEAR KAERI PR-141
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 PR-141
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 PR-141
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
140
Energy (MeV)


PHOTONUCLEAR KAERI PR-141
alphas from (g,x)
Prob/MeV
10^0
10^-2
0
10
20
30
40
Sec. Energy
0
20
40
60
80
100
120
140
Energy (MeV)