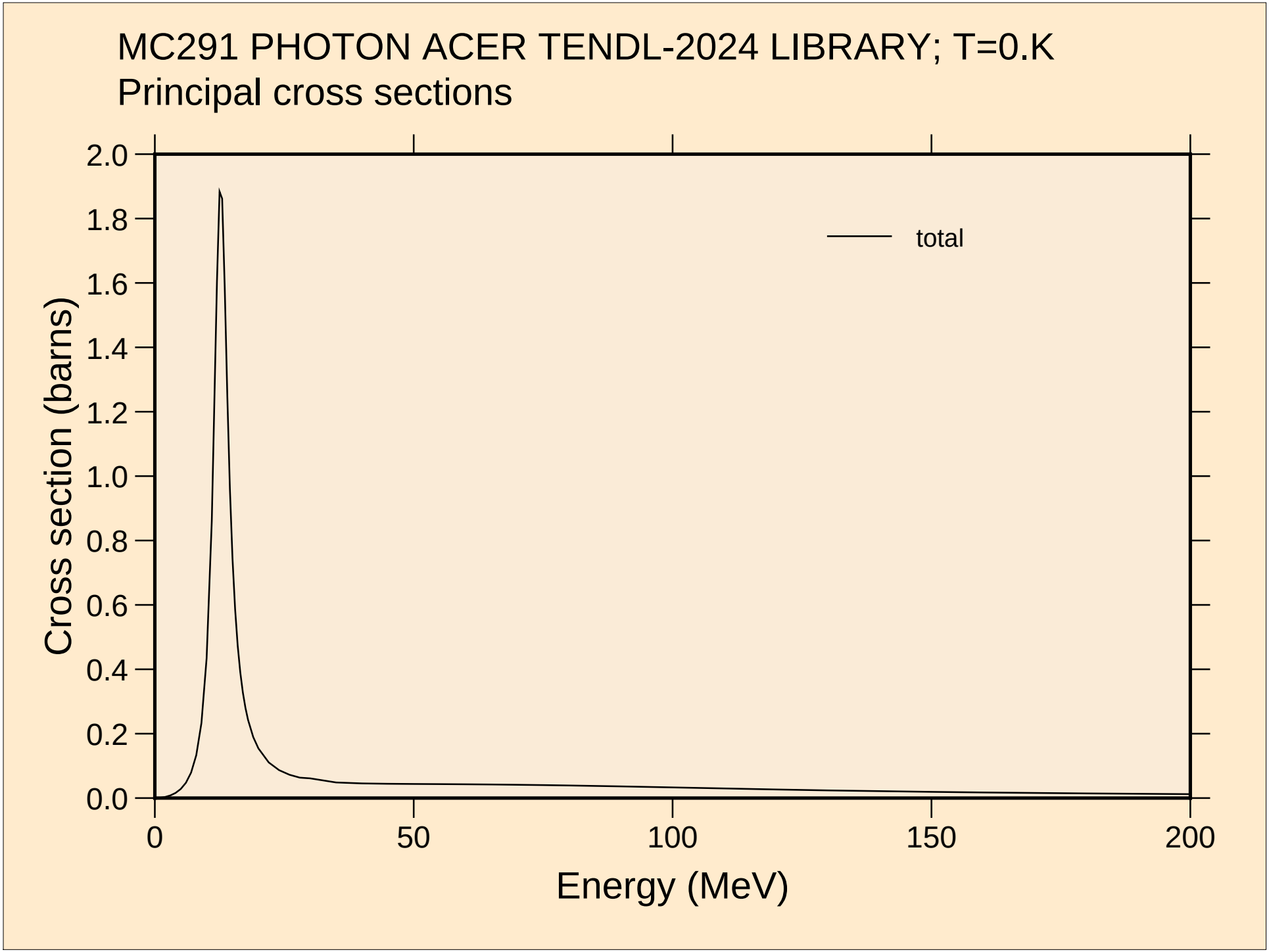
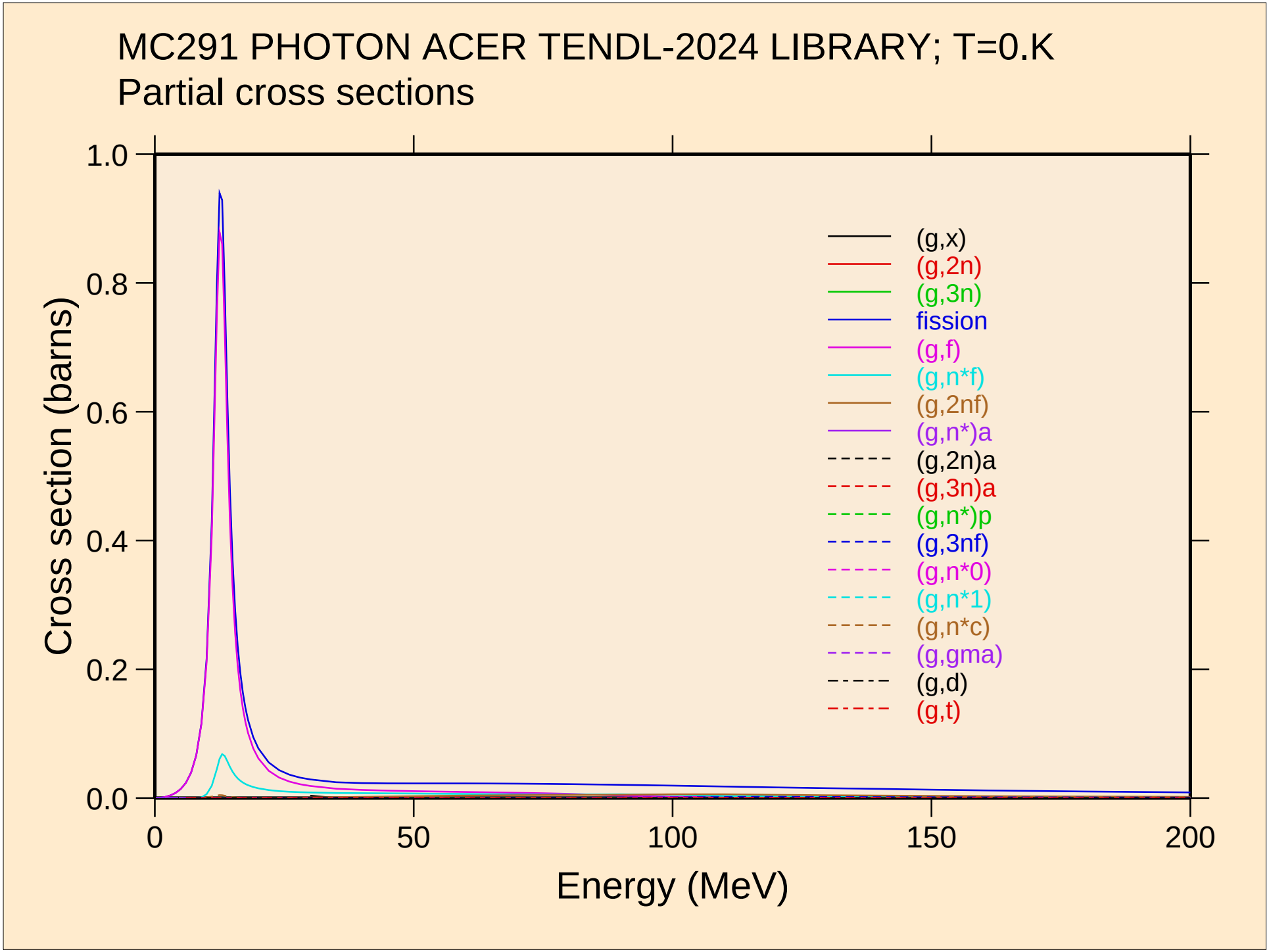
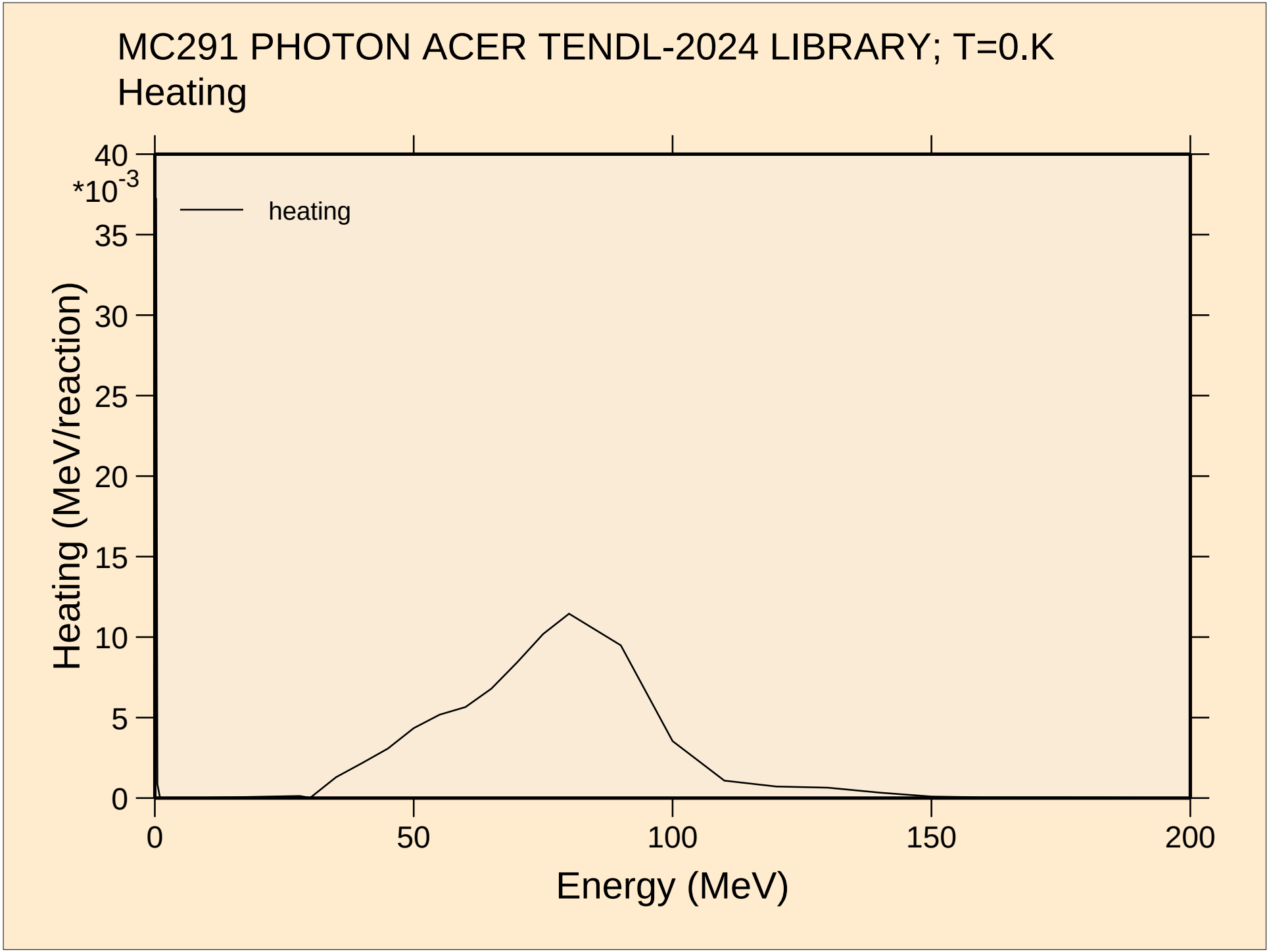
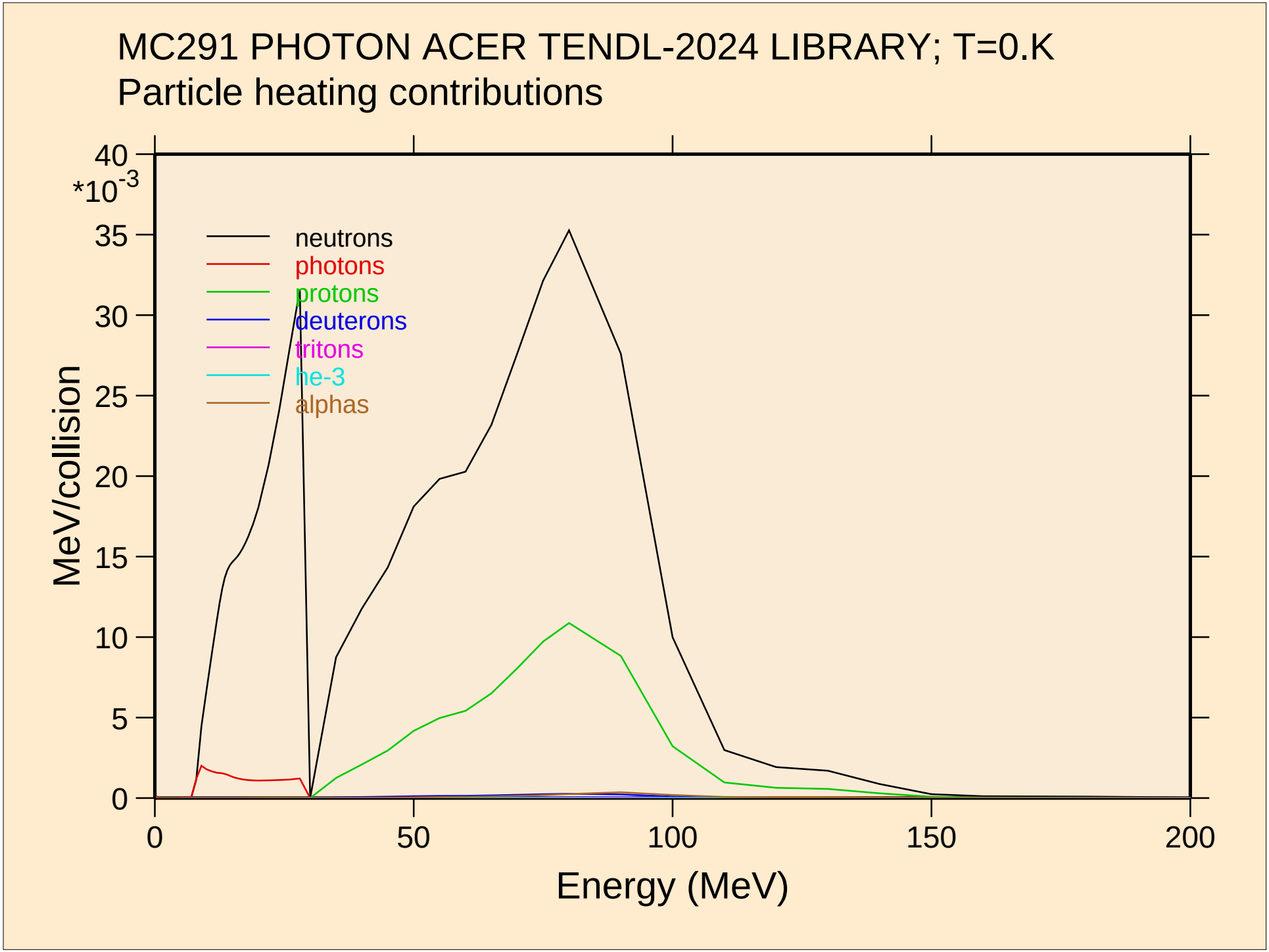
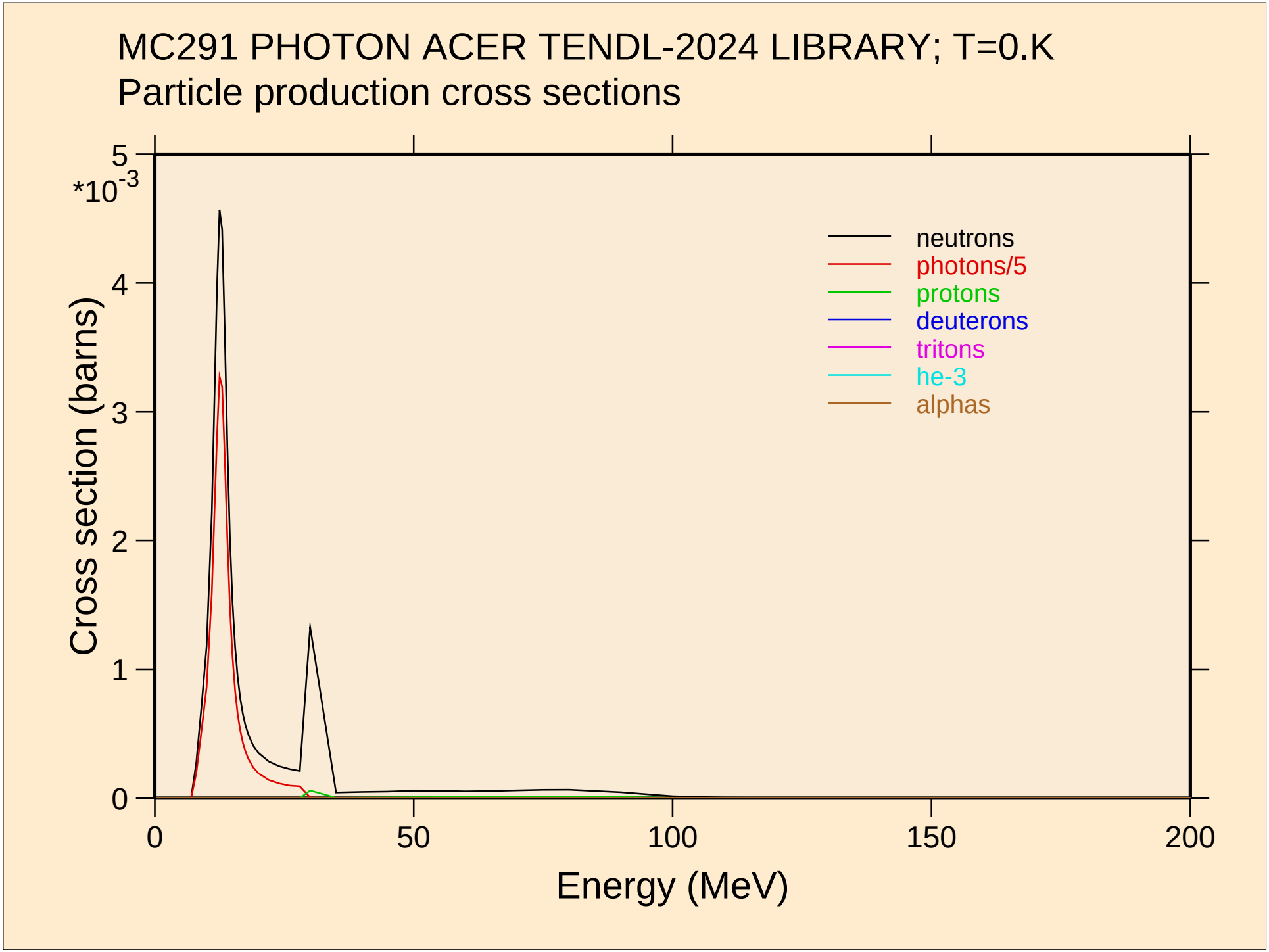
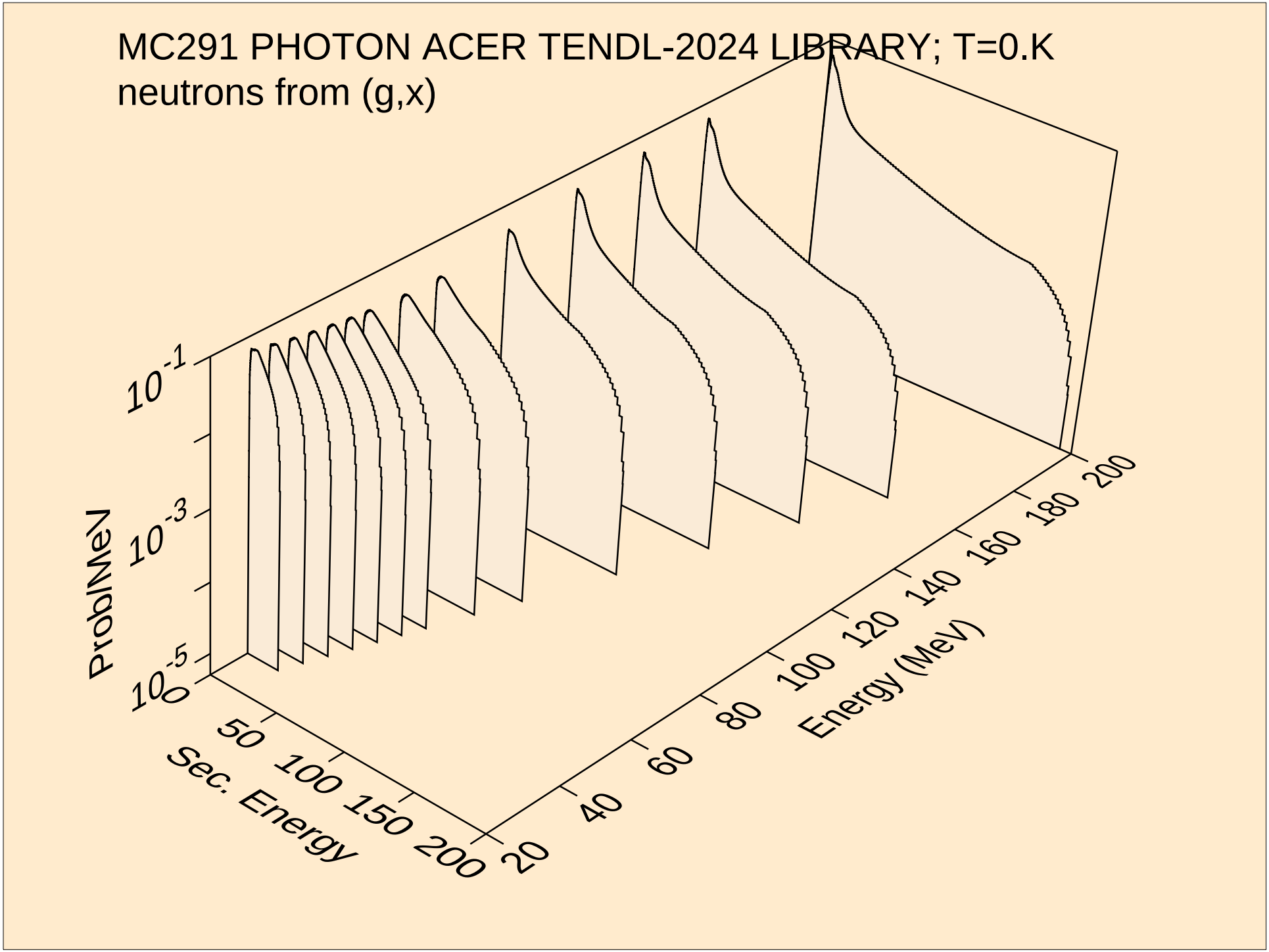

MC291 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
Principal cross sections
Cross section (barns)
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
50
100
150
200
Energy (MeV)
total

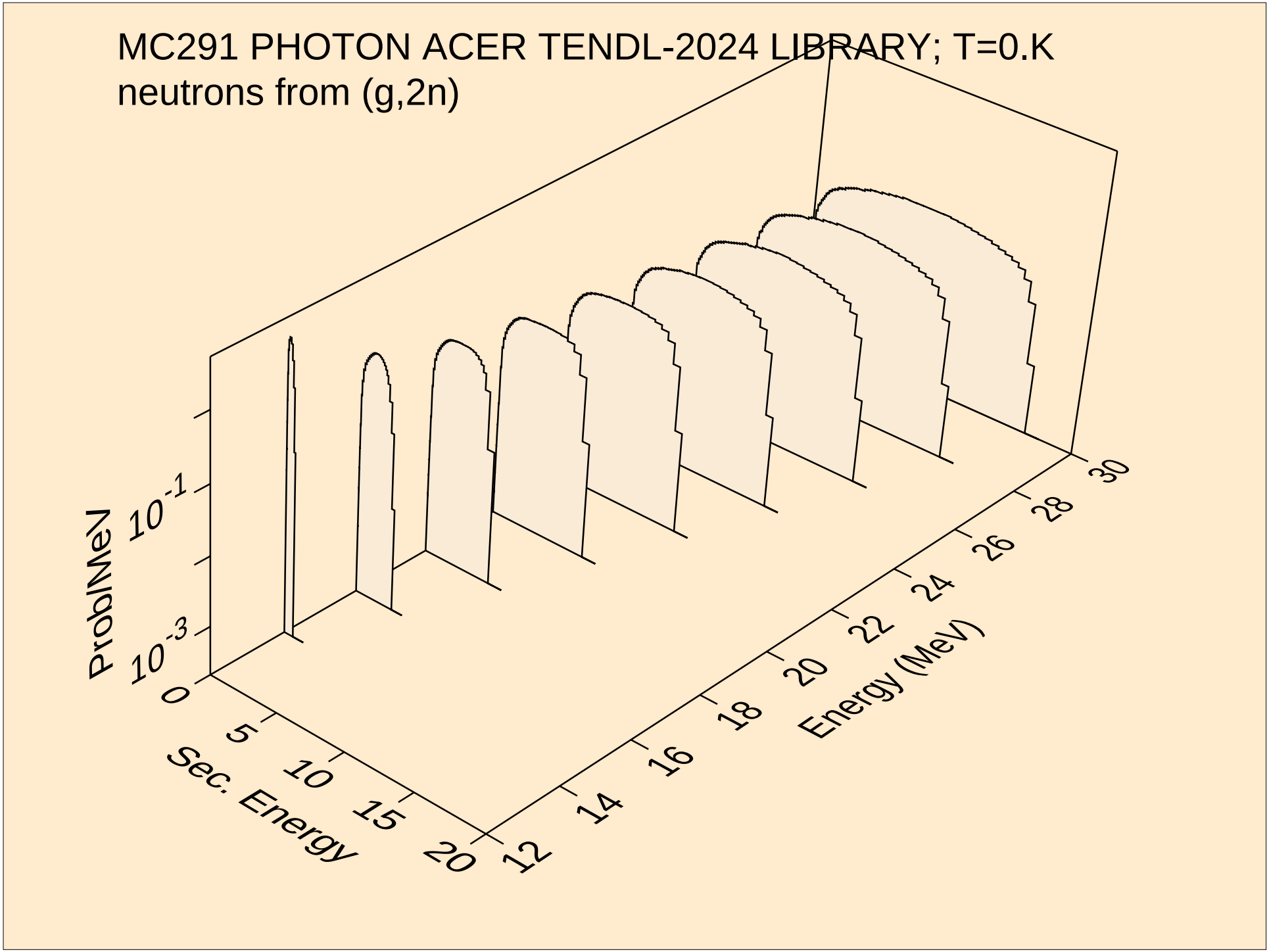

MC291 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
Partial cross sections
Cross section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
0
50
100
150
200
Energy (MeV)
(g,x)
(g,2n)
(g,3n)
fission
(g,f)
(g,n*f)
(g,2nf)
(g,n*)a
(g,2n)a
(g,3n)a
(g,n*)p
(g,3nf)
(g,n*0)
(g,n*1)
(g,n*c)
(g,gma)
(g,d)
(g,t)

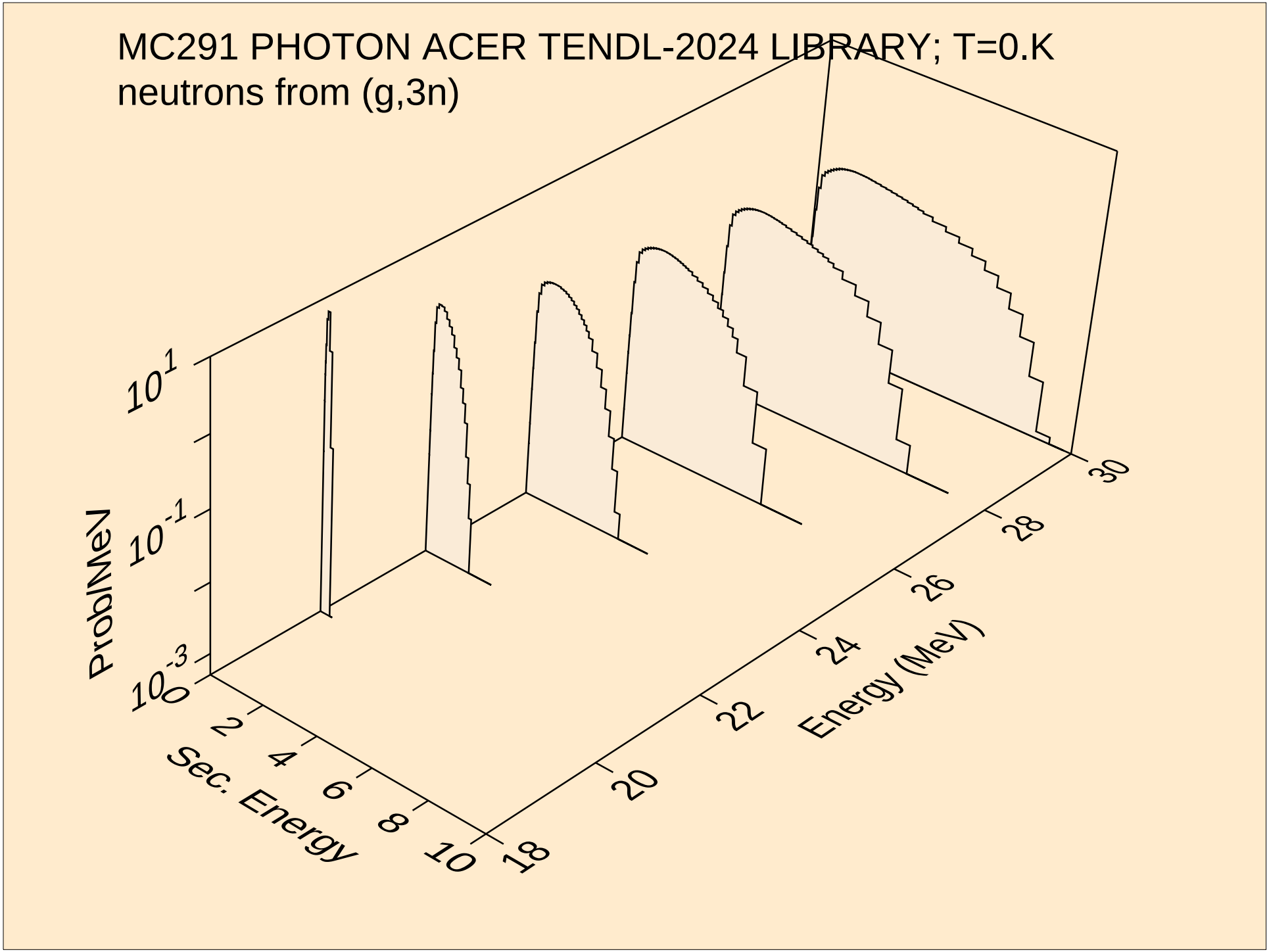

MC291 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
Heating
*10-3
heating
Heating (MeV/reaction)
40
35
30
25
20
15
10
5
0
0
50
100
150
200
Energy (MeV)

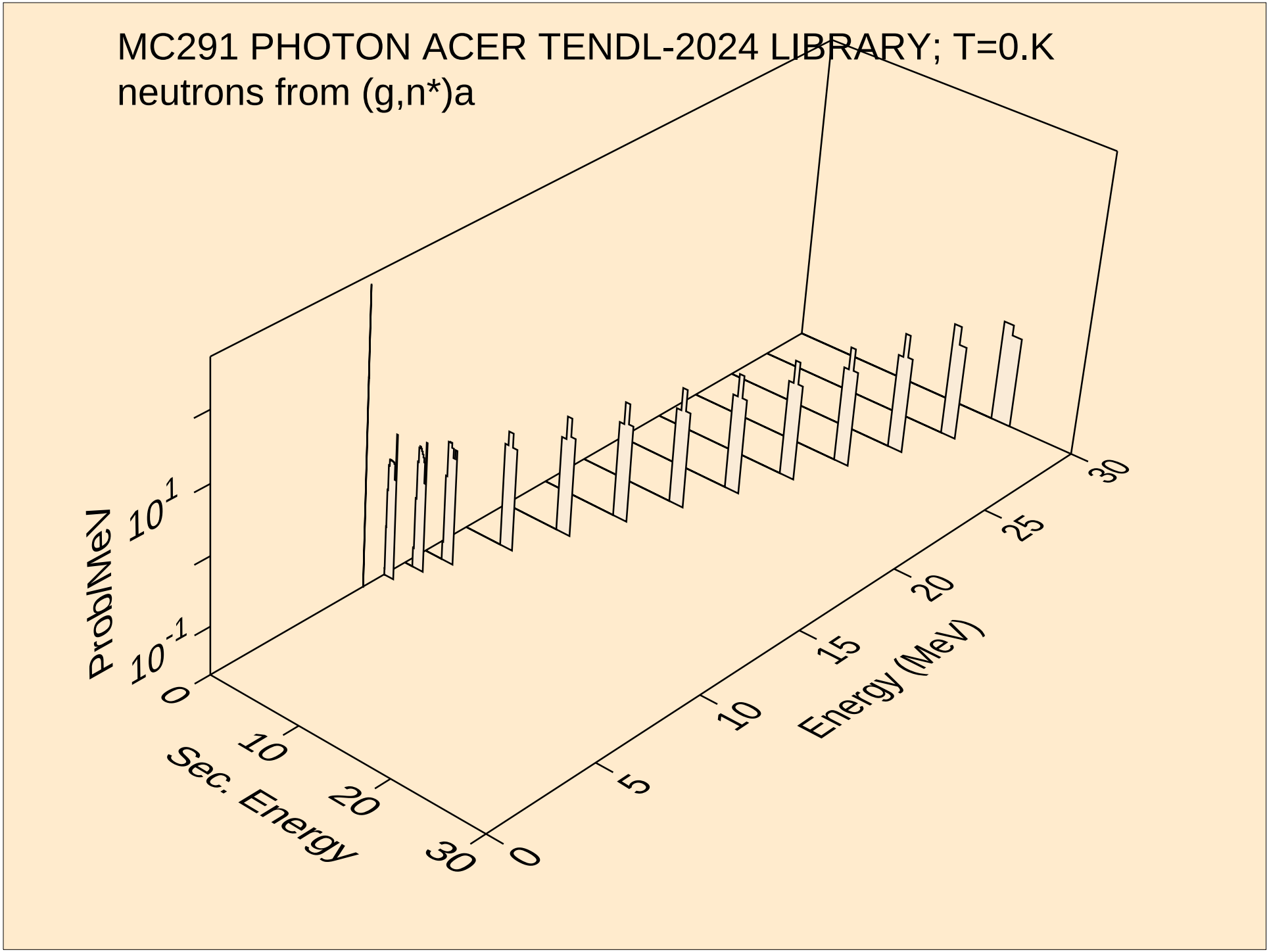

MC291 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
Particle heating contributions
*10-3
MeV/collision
Energy (MeV)
neutrons
photons
protons
deuterons
tritons
he-3
alphas
0
5
10
15
20
25
30
35
40
0
50
100
150
200

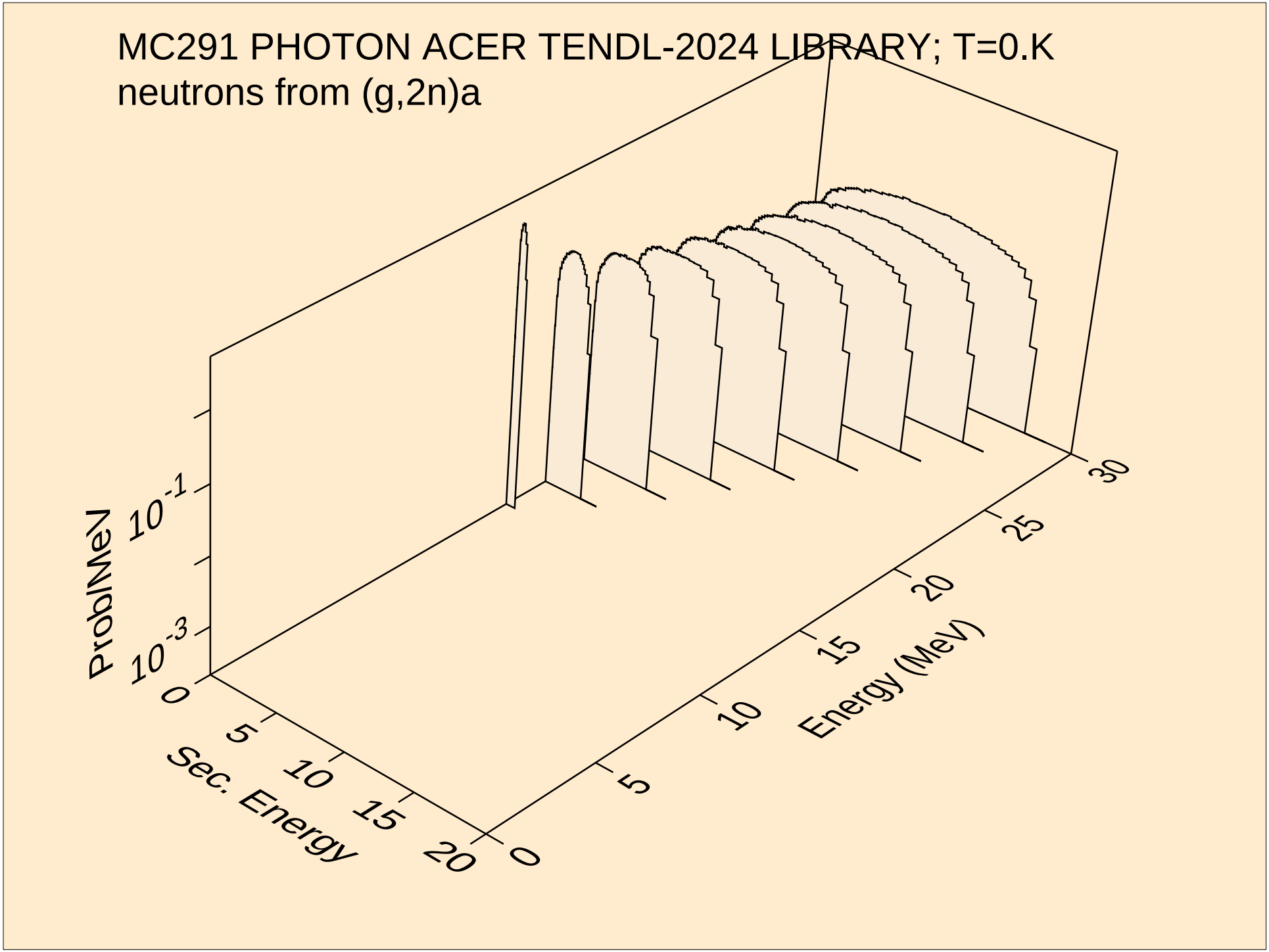

MC291 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
Particle production cross sections
*10-3
Cross section (barns)
5
4
3
2
1
0
0
50
100
150
200
Energy (MeV)
neutrons
photons/5
protons
deuterons
tritons
he-3
alphas

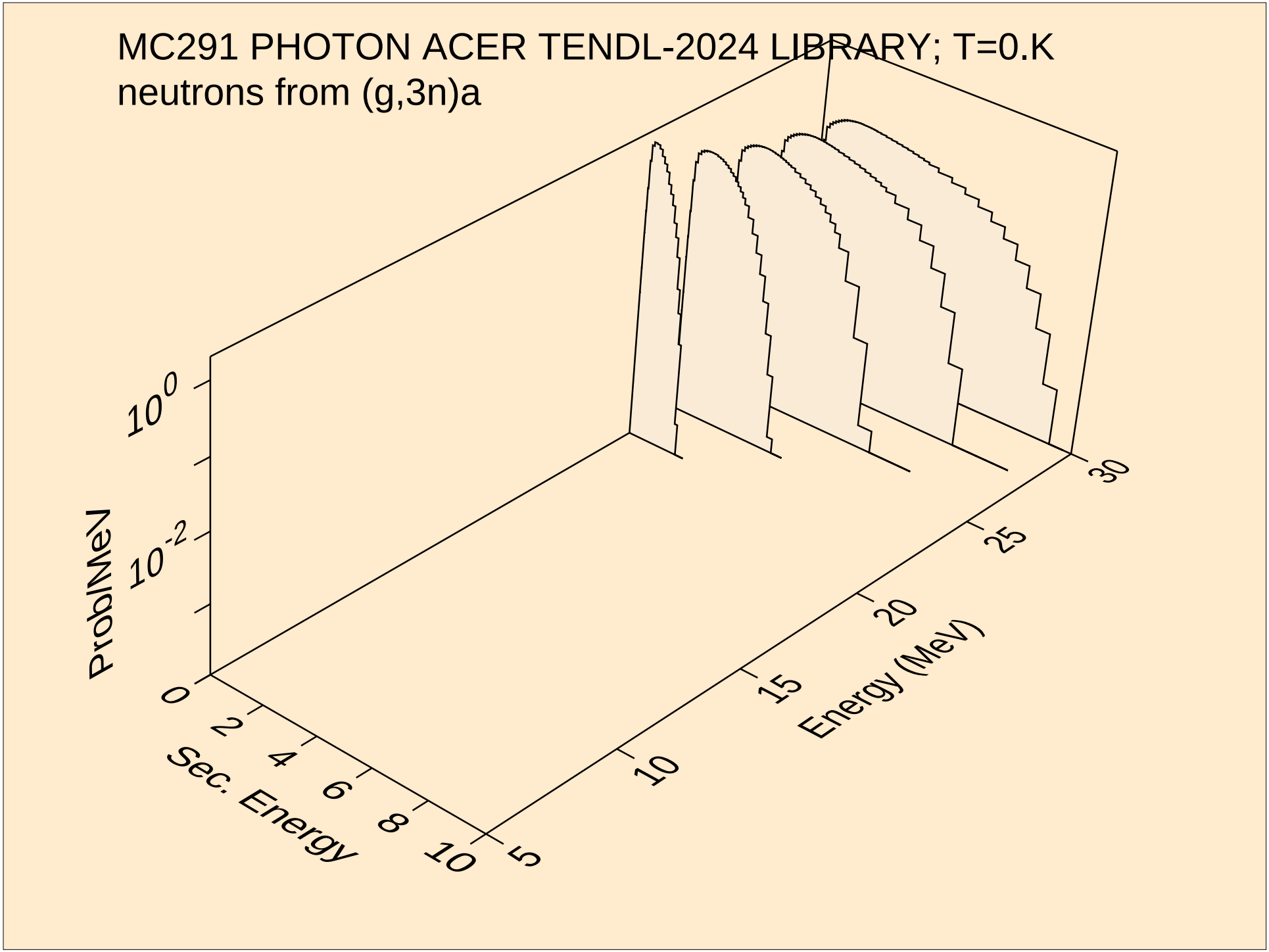

MC291 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
neutrons from (g,x)
Prob/MeV
10-1
10-3
10-5
0
50
100
150
200
Sec. Energy
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

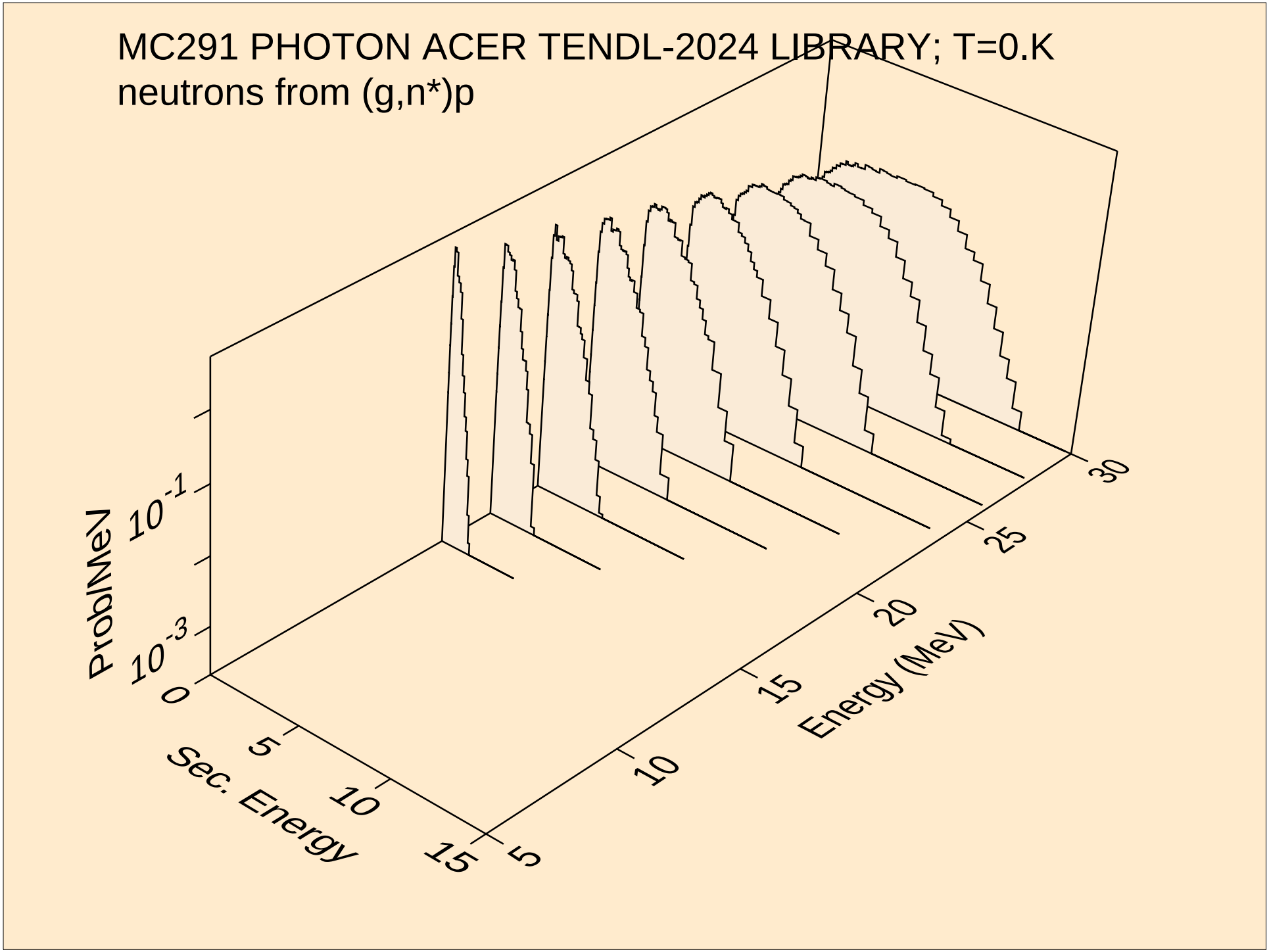

MC291 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
neutrons from (g,2n)
Prob/MeV
10-1
10-3
0
5
10
15
20
Sec. Energy
12
14
16
18
20
22
24
26
28
30
Energy (MeV)

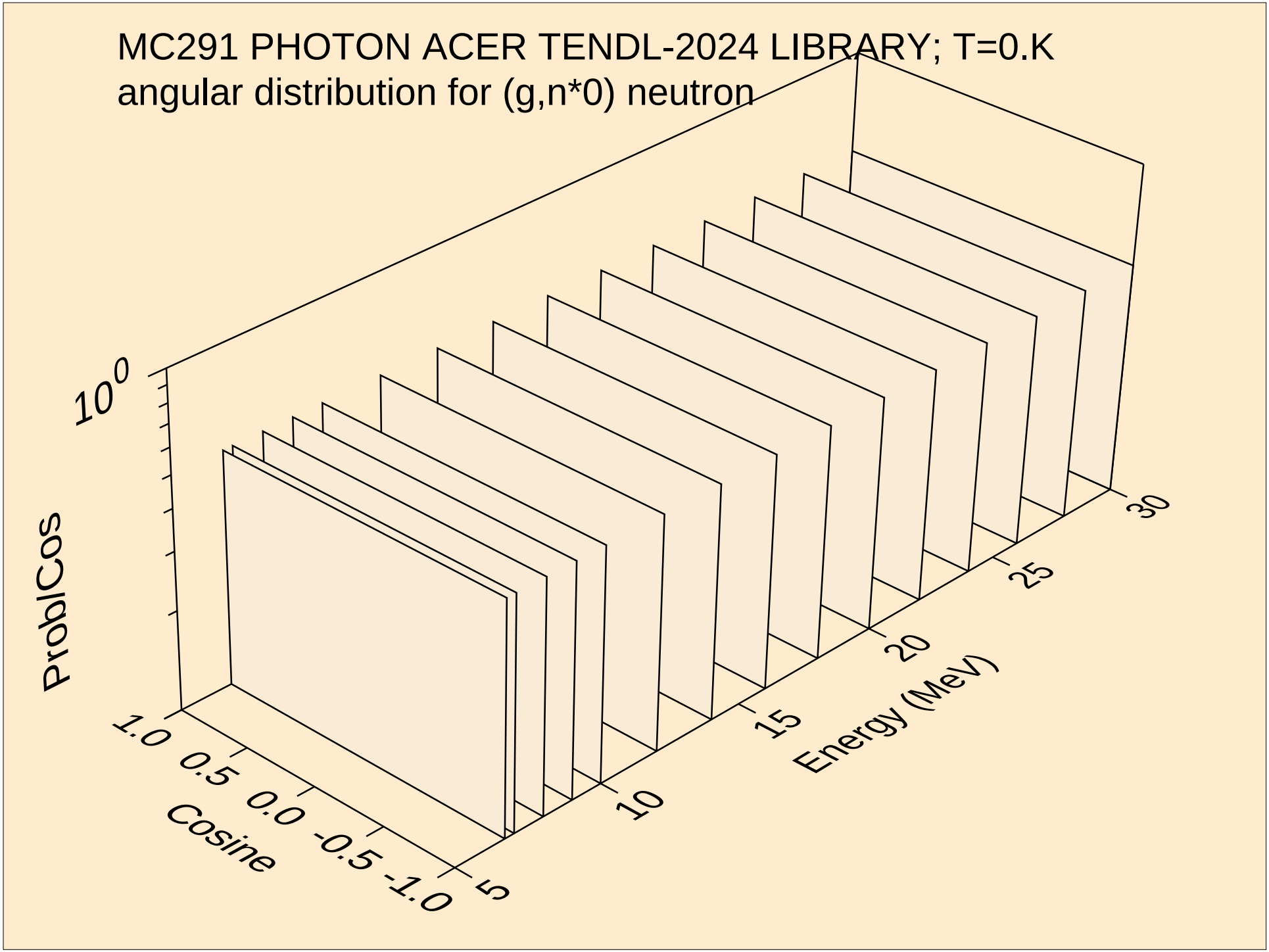

MC291 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
neutrons from (g,3n)
Prob/MeV
10^1
10^-1
10^-3
0
2
4
6
8
10
Sec. Energy
18
20
22
24
26
28
30
Energy (MeV)

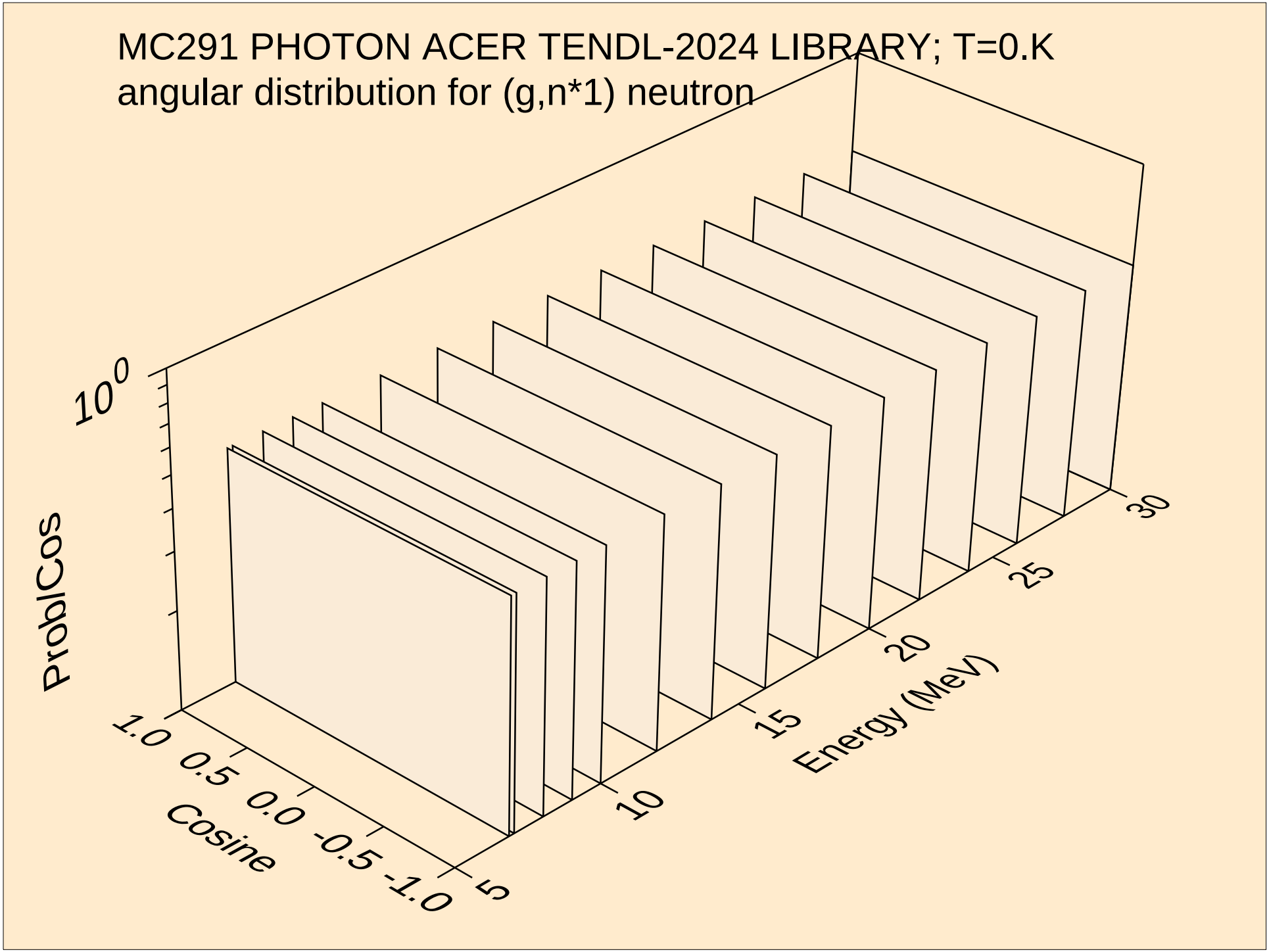

MC291 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
neutrons from (g,n*)a
Prob/MeV
10^1
10^-1
0
10
20
30
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)

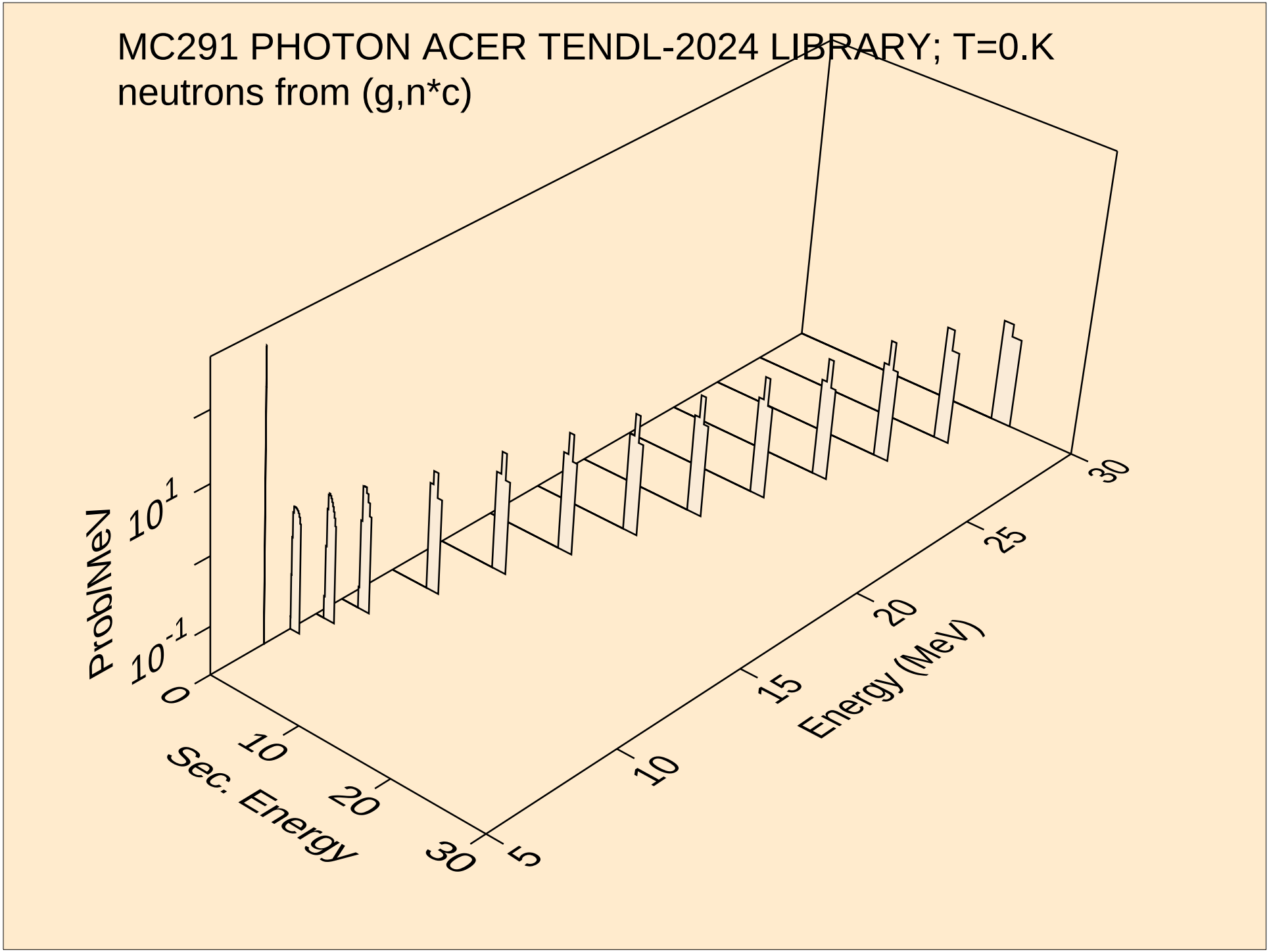

MC291 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
neutrons from (g,2n)a
Prob/MeV
10-1
10-3
0
5
10
15
20
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)

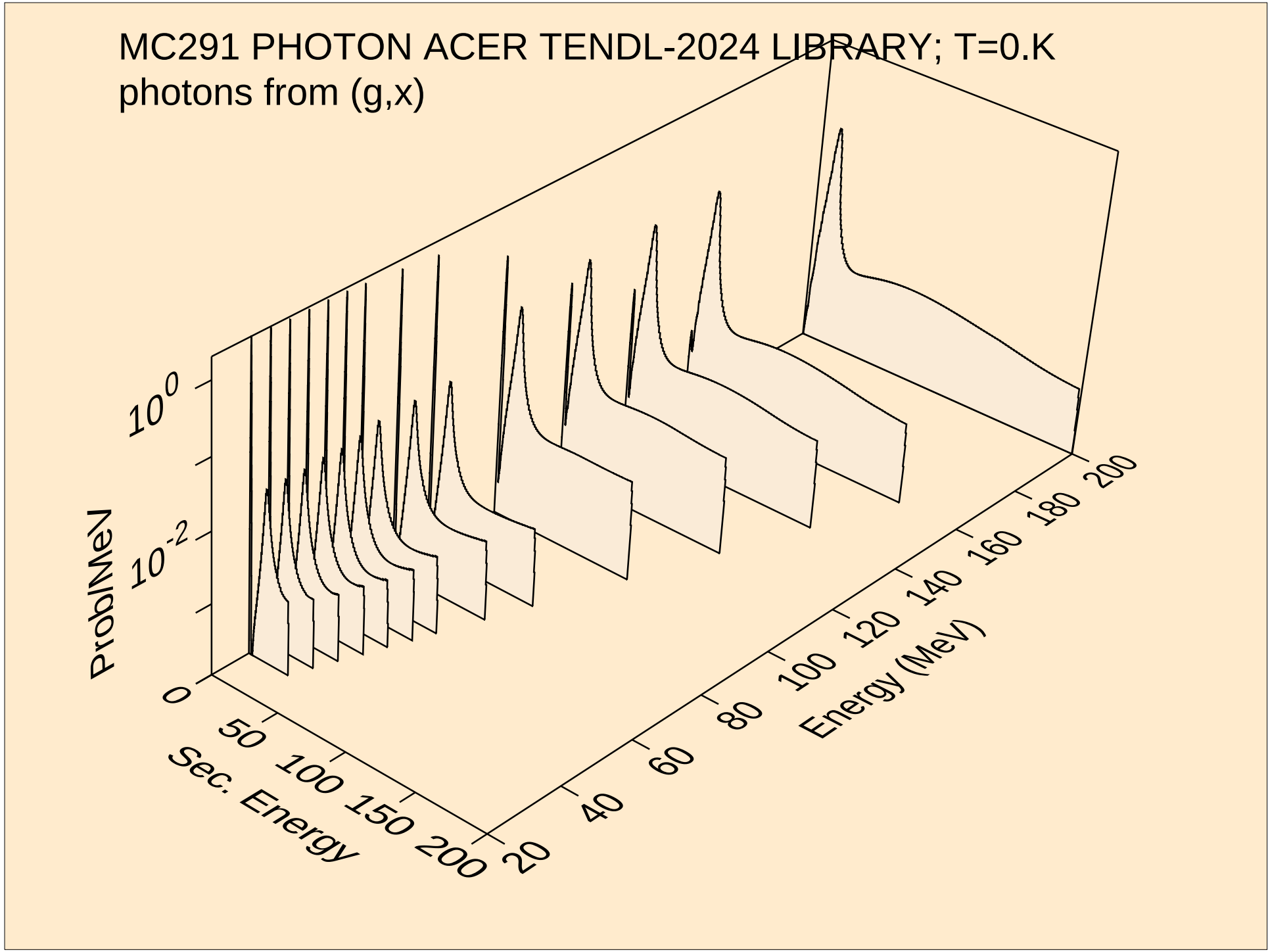

MC291 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
neutrons from (g,3n)a
Prob/MeV
10^0
10^-2
0
2
4
6
8
10
Sec. Energy
5
10
15
20
25
30
Energy (MeV)

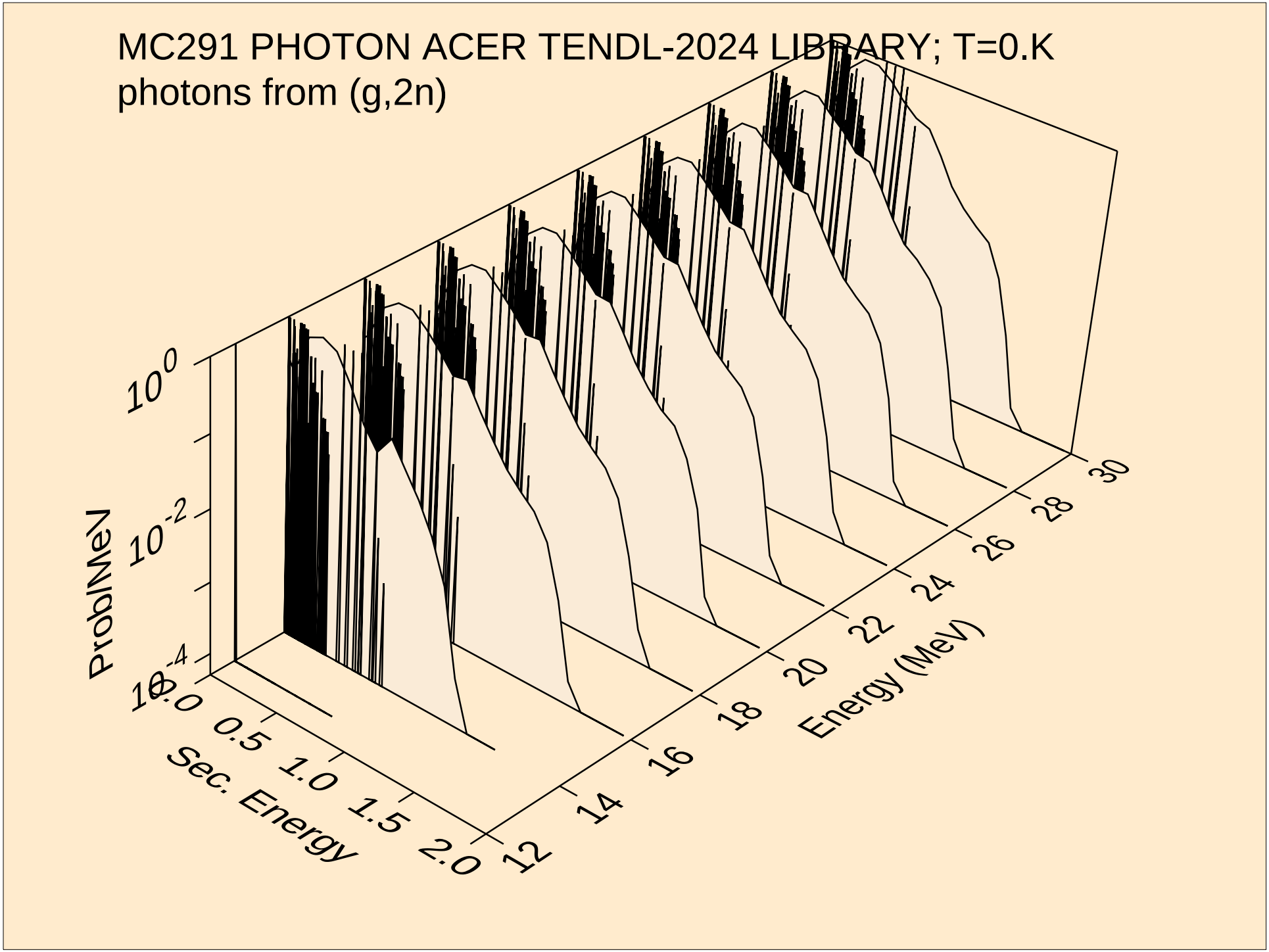

MC291 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
neutrons from (g,n*)p
Prob/MeV
10-1
10-3
0
Sec. Energy
5
10
15
Energy (MeV)
5
10
15
20
25
30

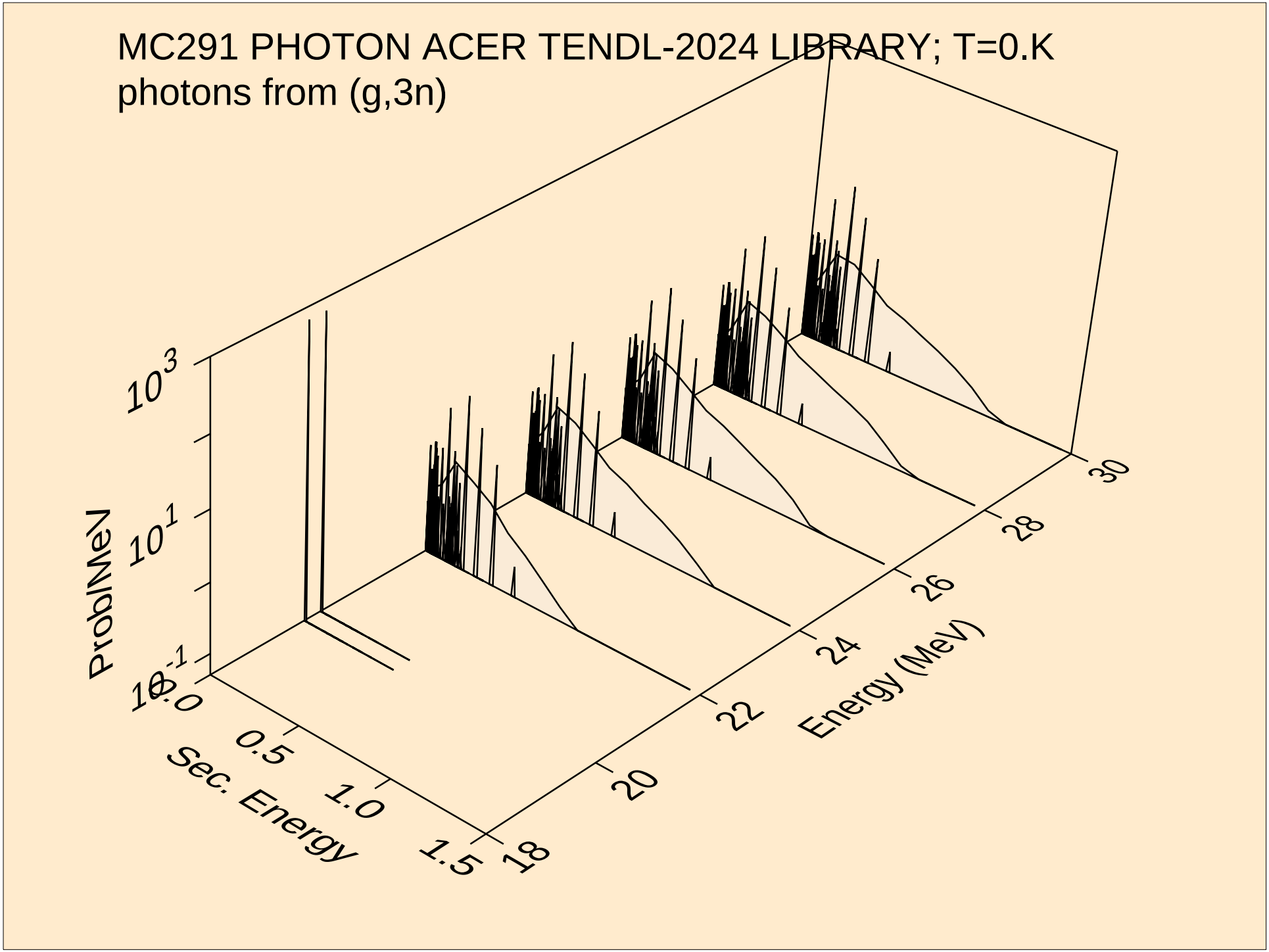

MC291 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
angular distribution for (g,n*0) neutron
10^0
Prob\Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

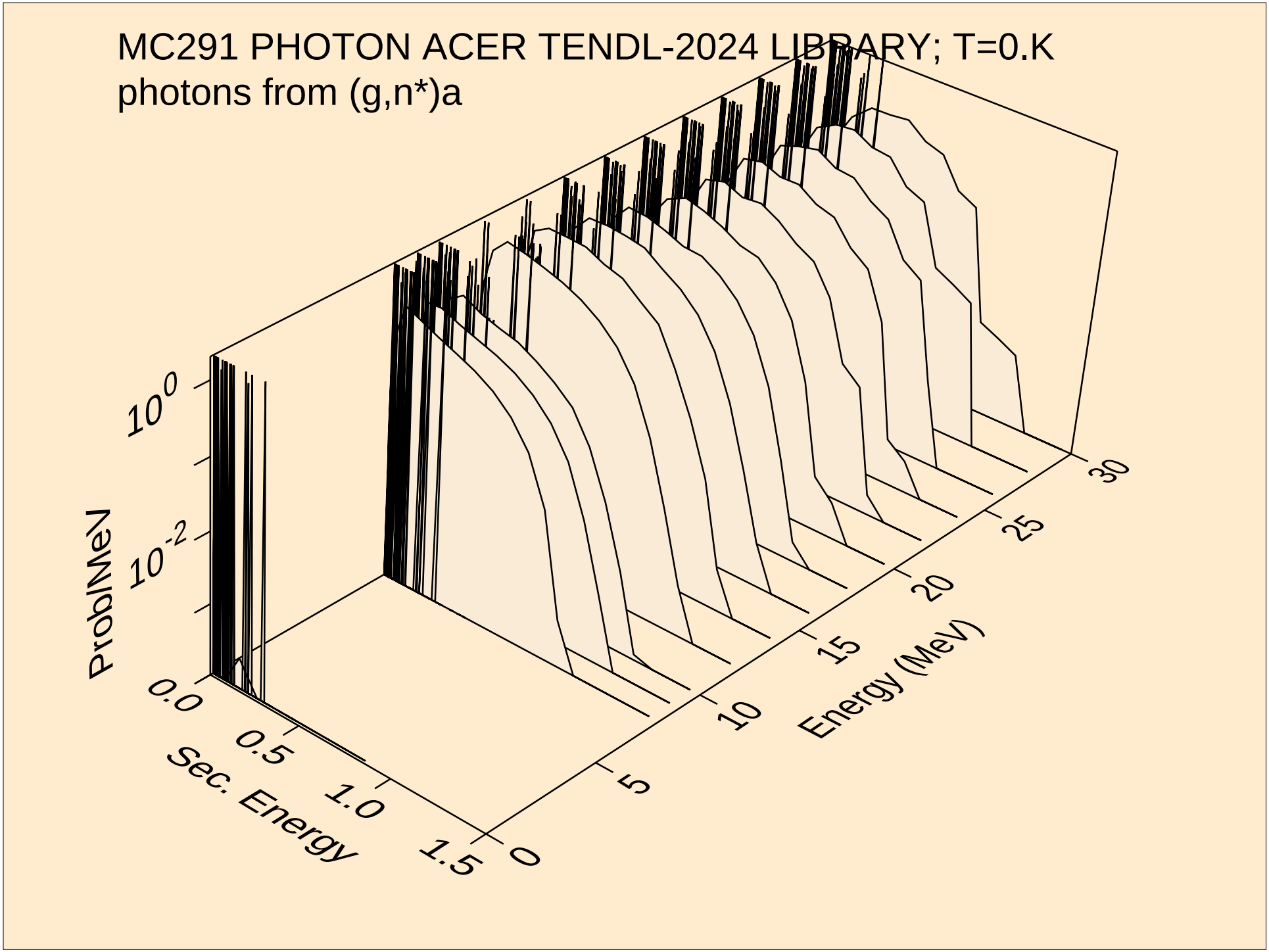

MC291 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
angular distribution for (g,n*1) neutron
10^0
Prob\Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

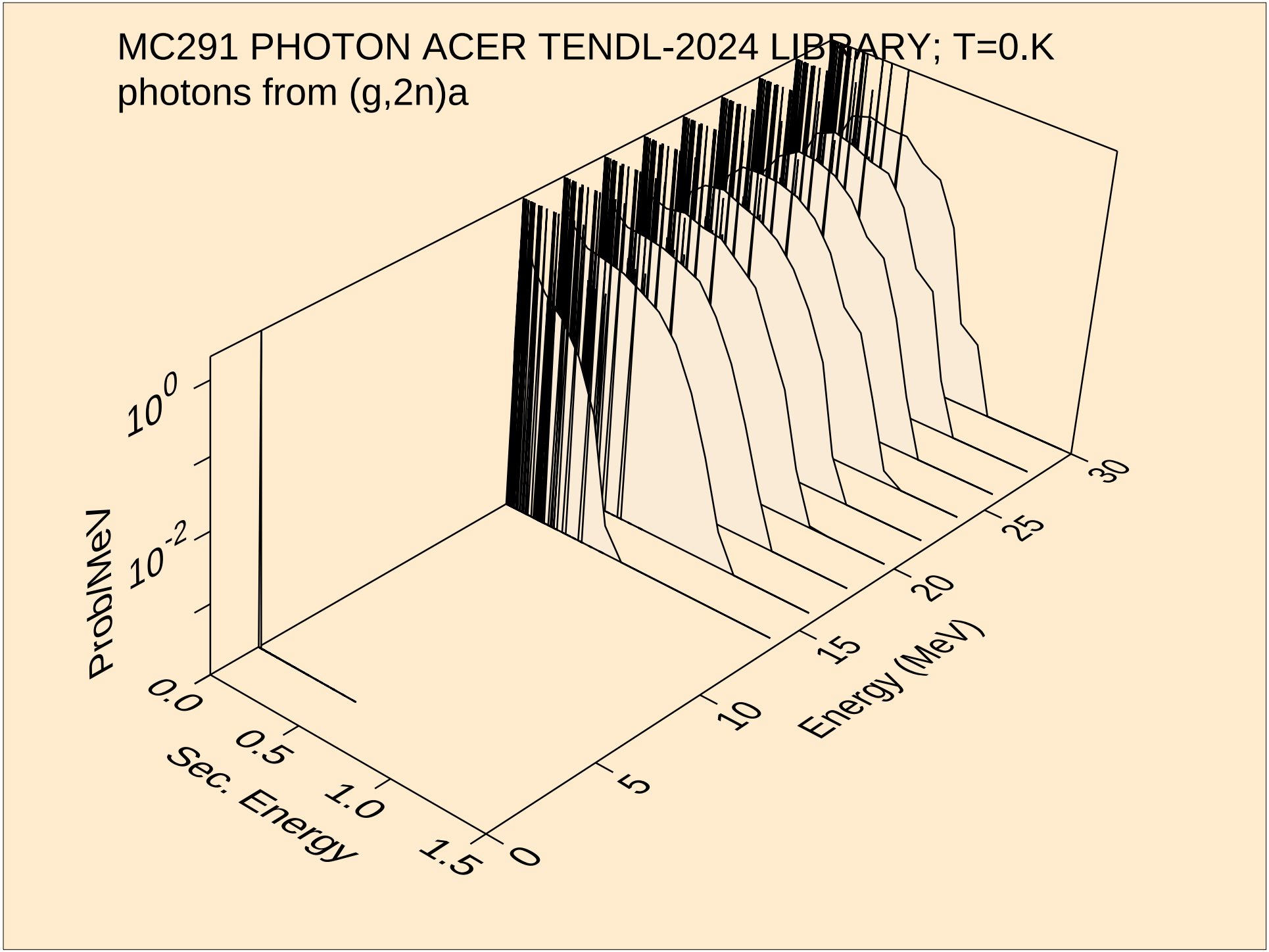

MC291 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
neutrons from (g,n*c)
Prob/MeV
10^1
10^-1
0
10
20
30
Sec. Energy
5
10
15
20
25
30
Energy (MeV)

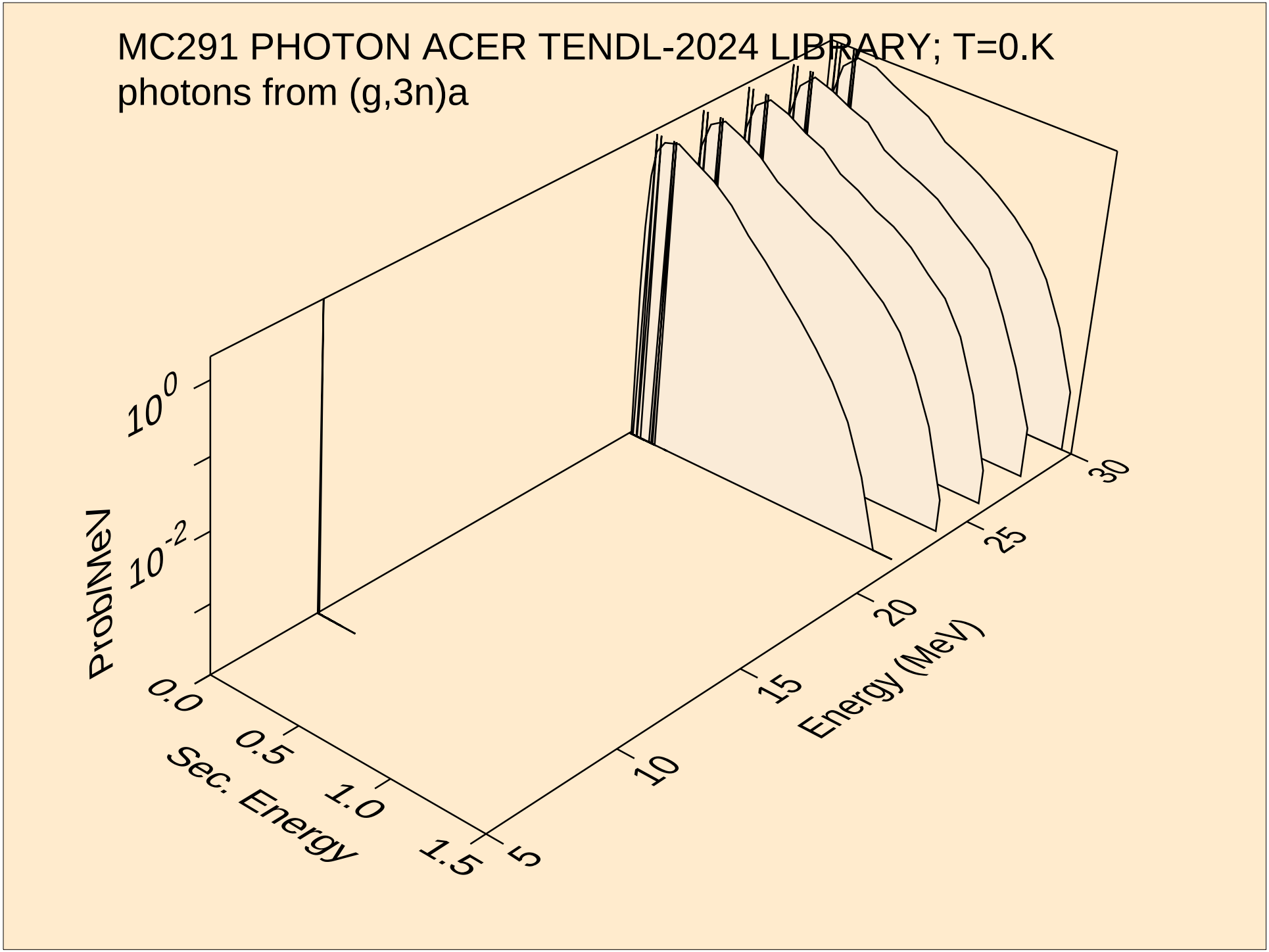

MC291 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
photons from (g,x)
Prob/MeV
10^0
10^-2
0
50
100
150
200
Sec. Energy
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

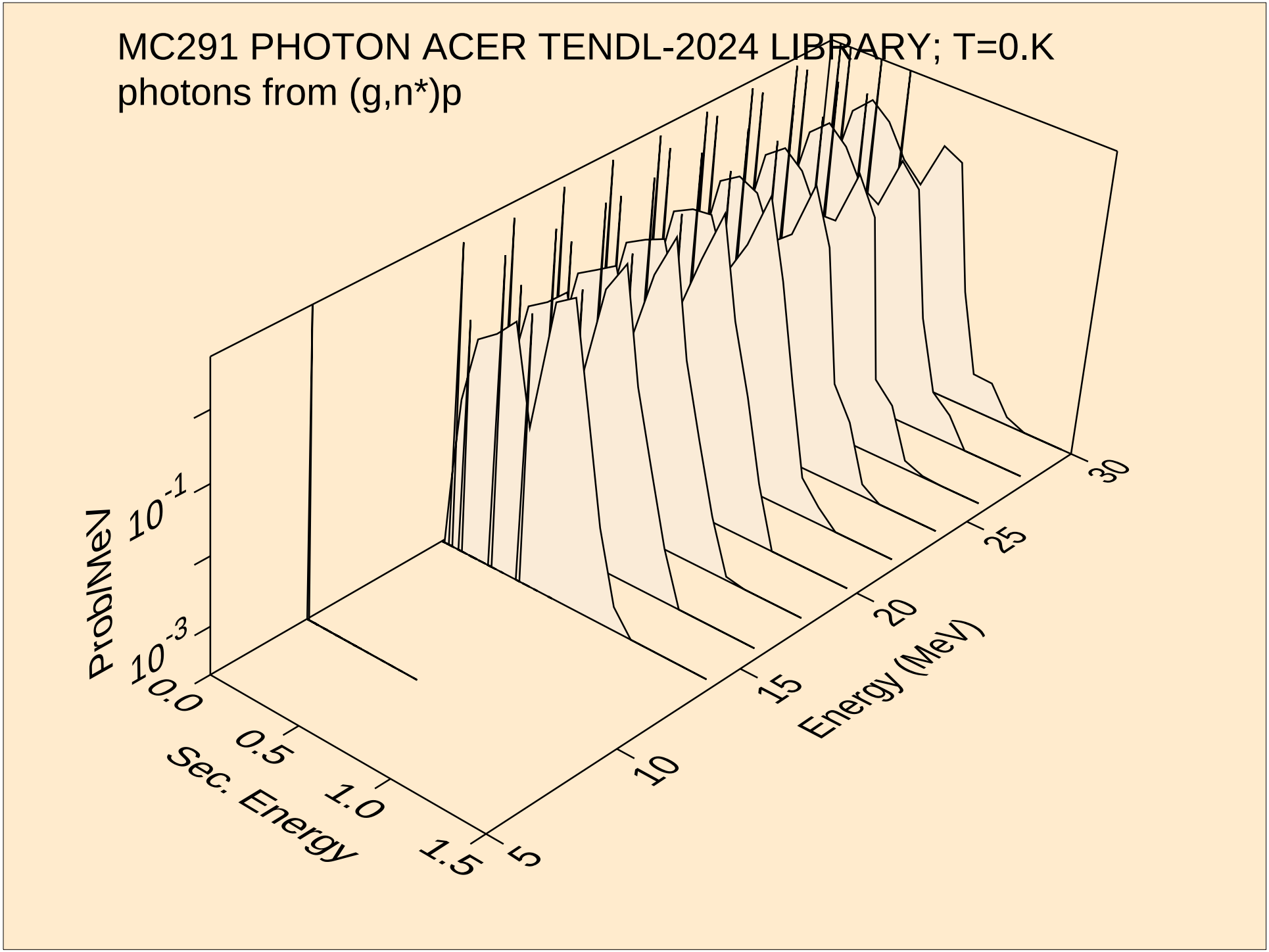

MC291 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
photons from (g,2n)
Prob/MeV
10^{0}
10^{-2}
10^{-4}
0.0
0.5
1.0
1.5
2.0
Sec. Energy
12
14
16
18
20
22
24
26
28
30
Energy (MeV)

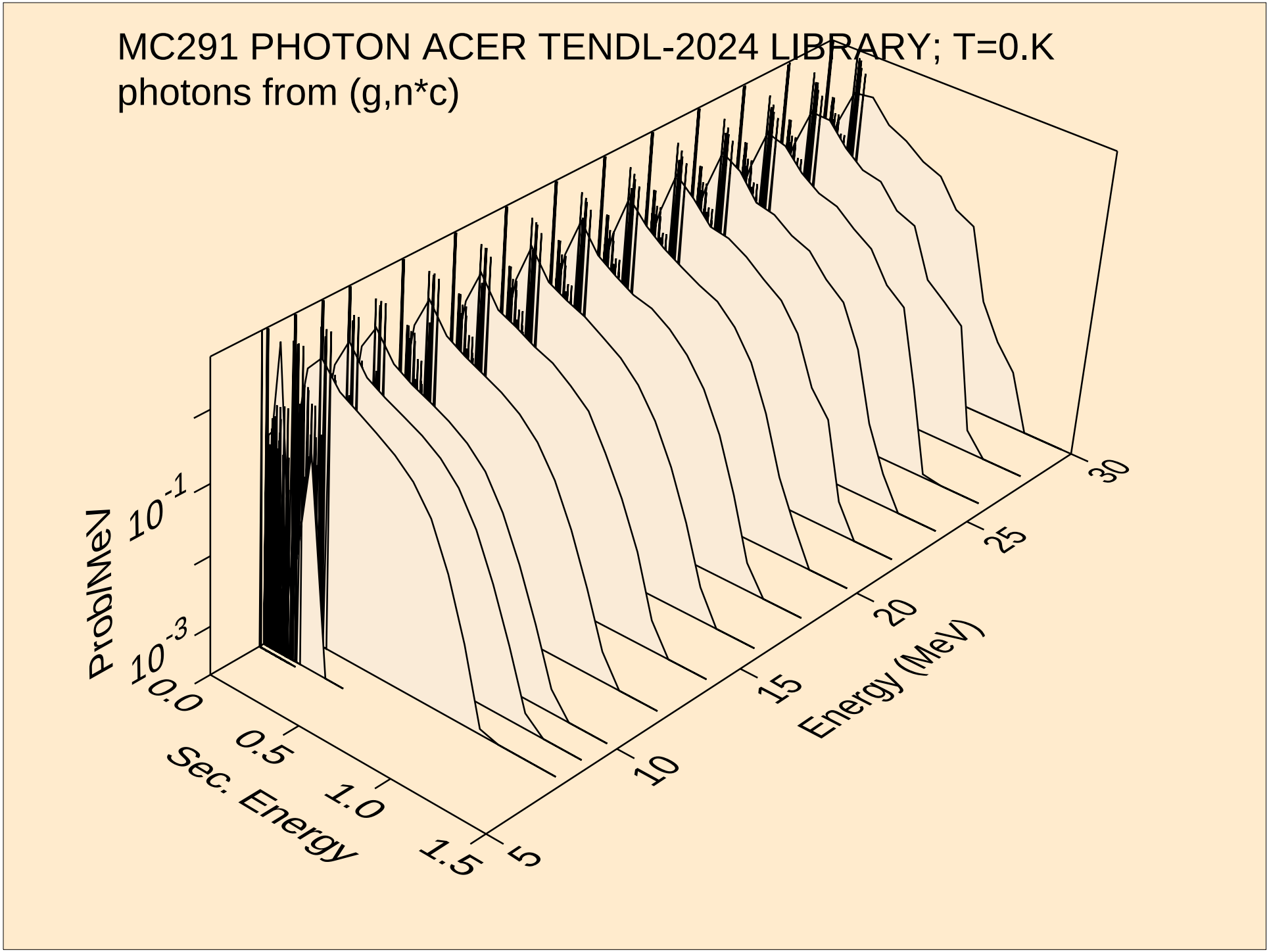

MC291 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
photons from (g,3n)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0.0
0.5
1.0
1.5
Sec. Energy
18
20
22
24
26
28
30
Energy (MeV)

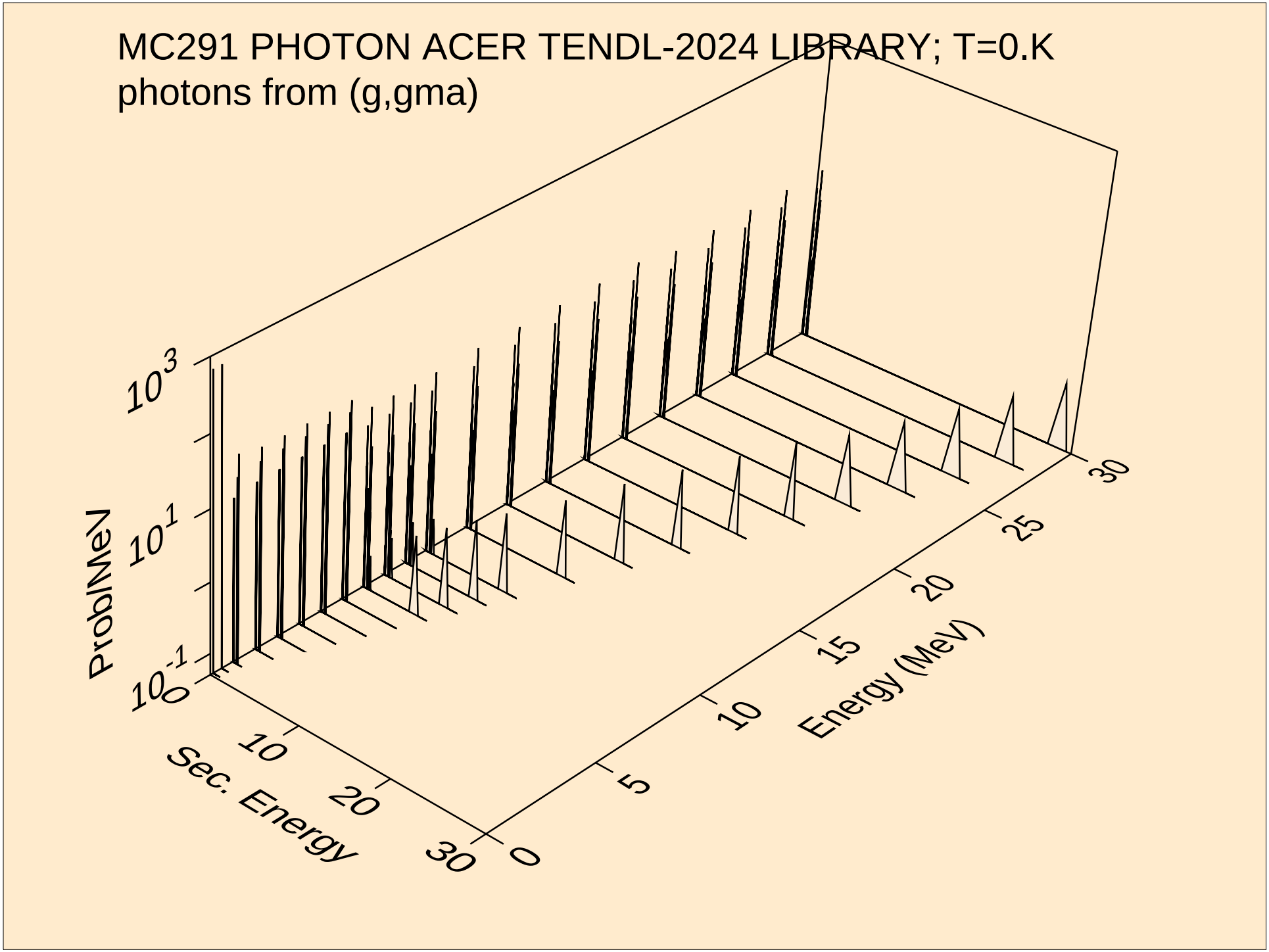

MC291 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
photons from (g,n*)a
Prob/MeV
10^0
10^-2
0.0
0.5
1.0
1.5
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)

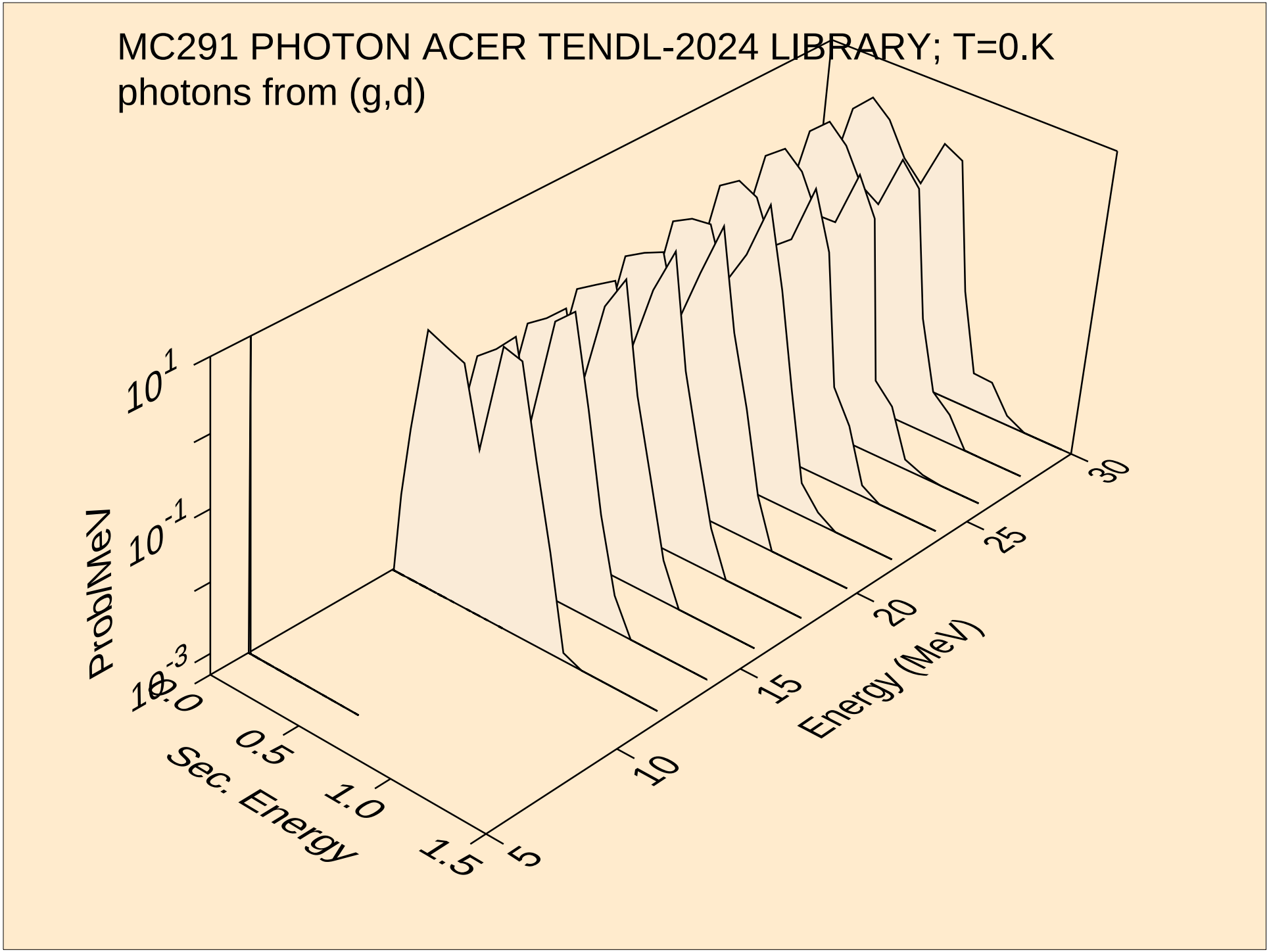

MC291 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
photons from (g,2n)a
Prob/MeV
10^0
10^-2
0.0
0.5
1.0
1.5
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)

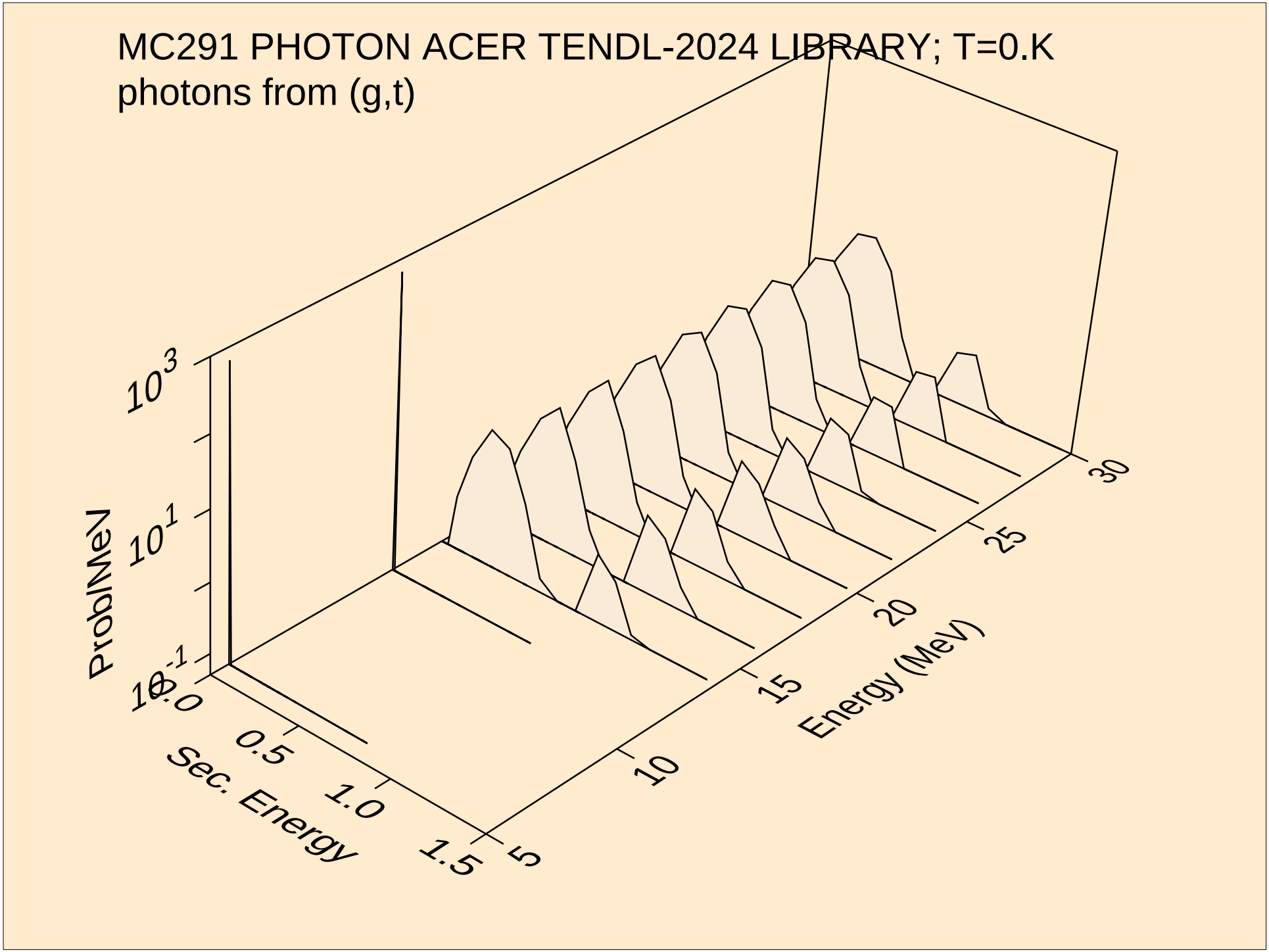

MC291 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
photons from (g,3n)a
Prob/MeV
10^0
10^-2
0.0
0.5
1.0
1.5
Sec. Energy
5
10
15
20
25
30
Energy (MeV)

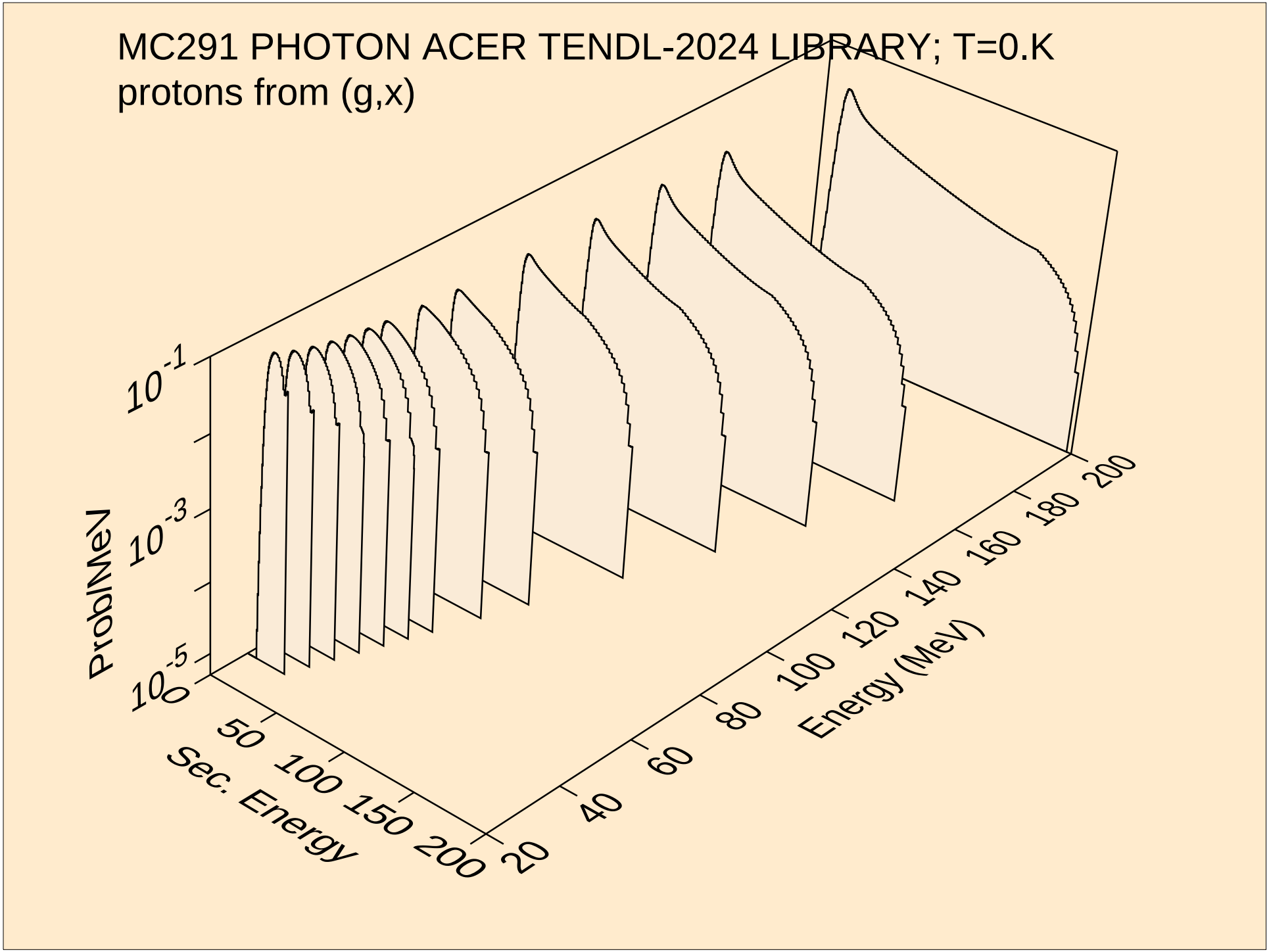

MC291 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
photons from (g,n*)p
Prob/MeV
10-1
10-3
0.0
0.5
1.0
1.5
Sec. Energy
5
10
15
20
25
30
Energy (MeV)

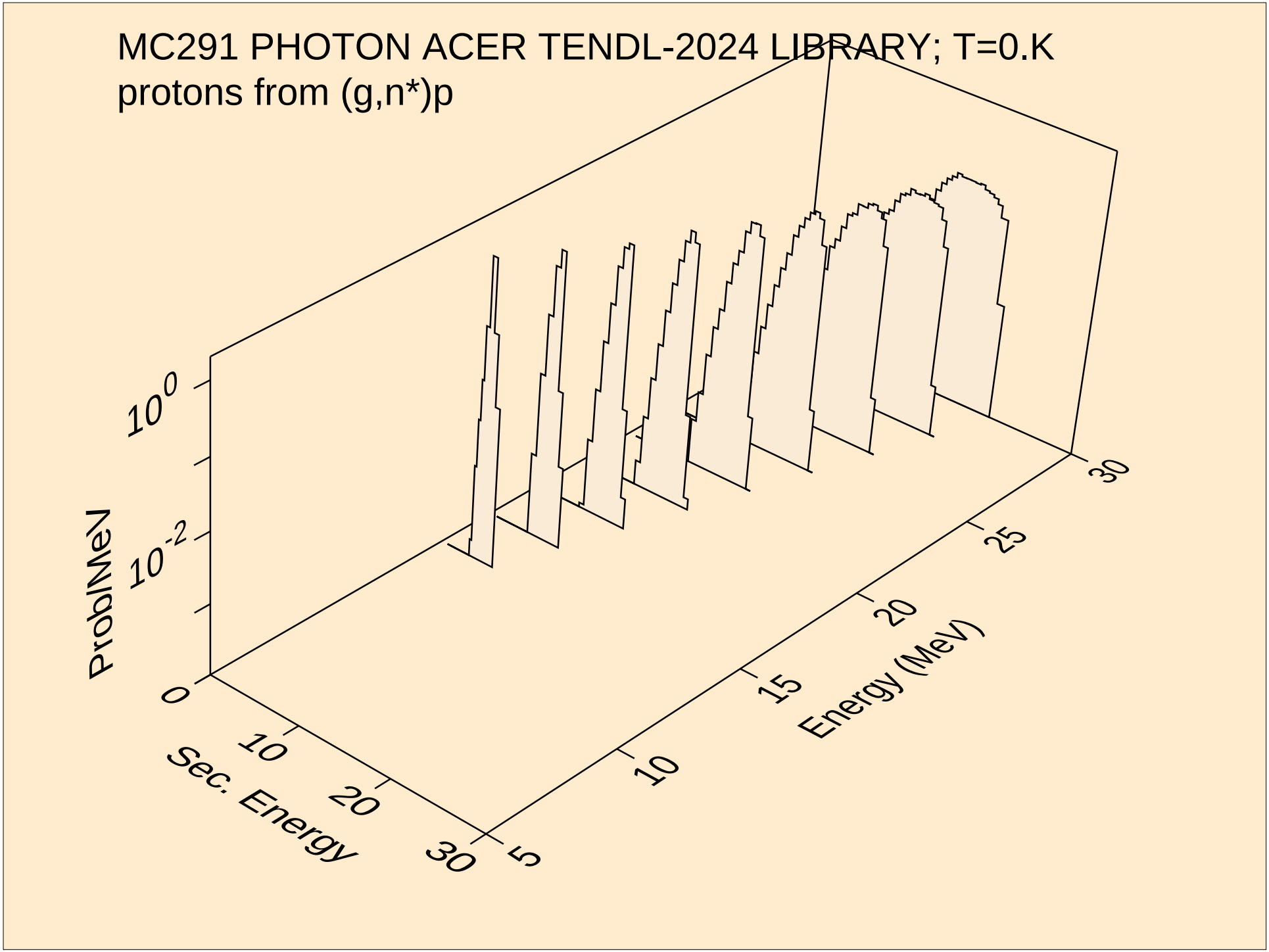

MC291 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
photons from (g,n*c)
Prob/MeV
10-1
10-3
0.0
0.5
1.0
1.5
Sec. Energy
5
10
15
20
25
30
Energy (MeV)

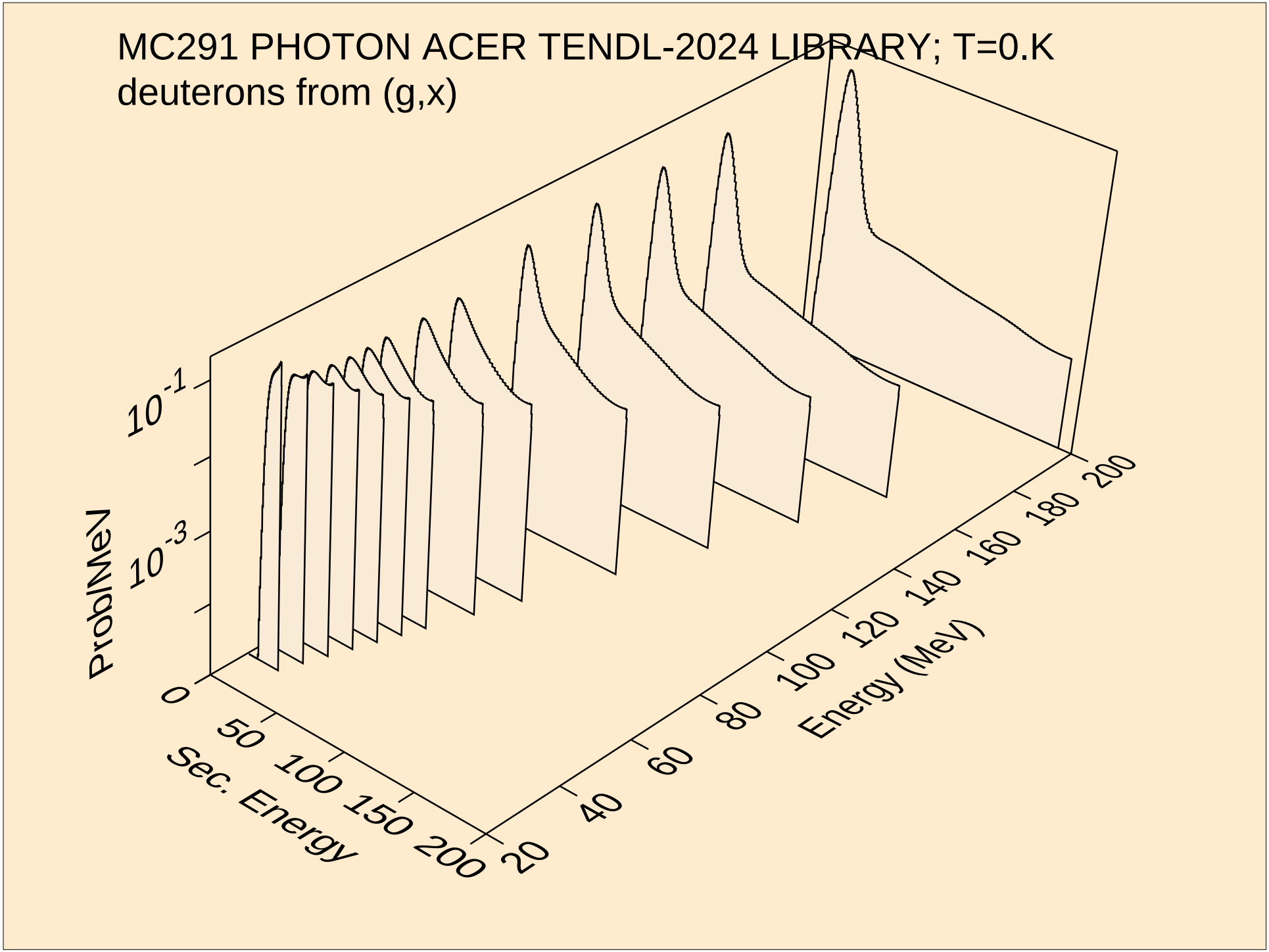

MC291 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
photons from (g,gma)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
10
20
30
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)

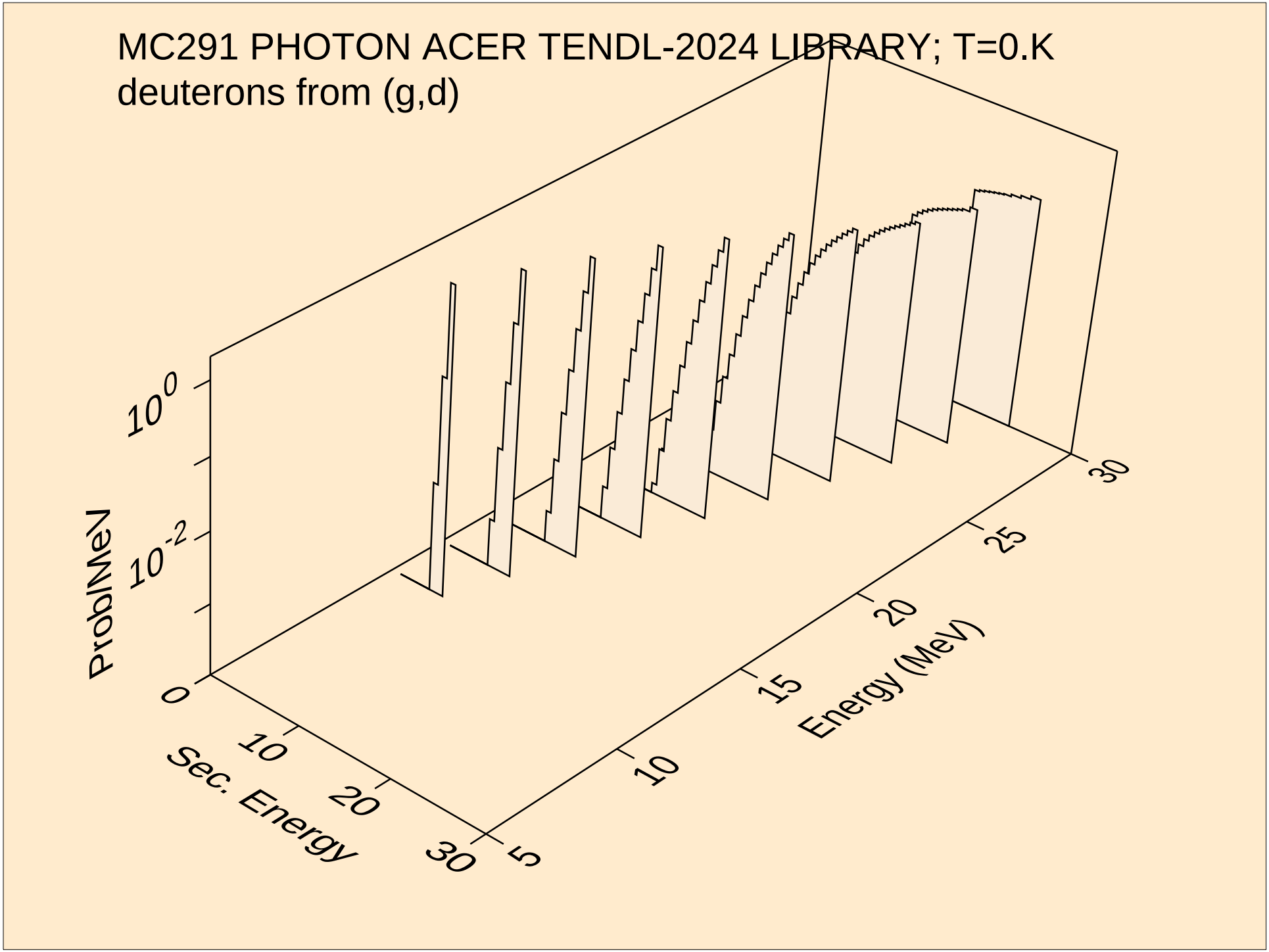

MC291 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
photons from (g,d)
Prob/MeV
10^{1}
10^{-1}
10^{-3}
0.0
0.5
1.0
1.5
Sec. Energy
5
10
15
20
25
30
Energy (MeV)

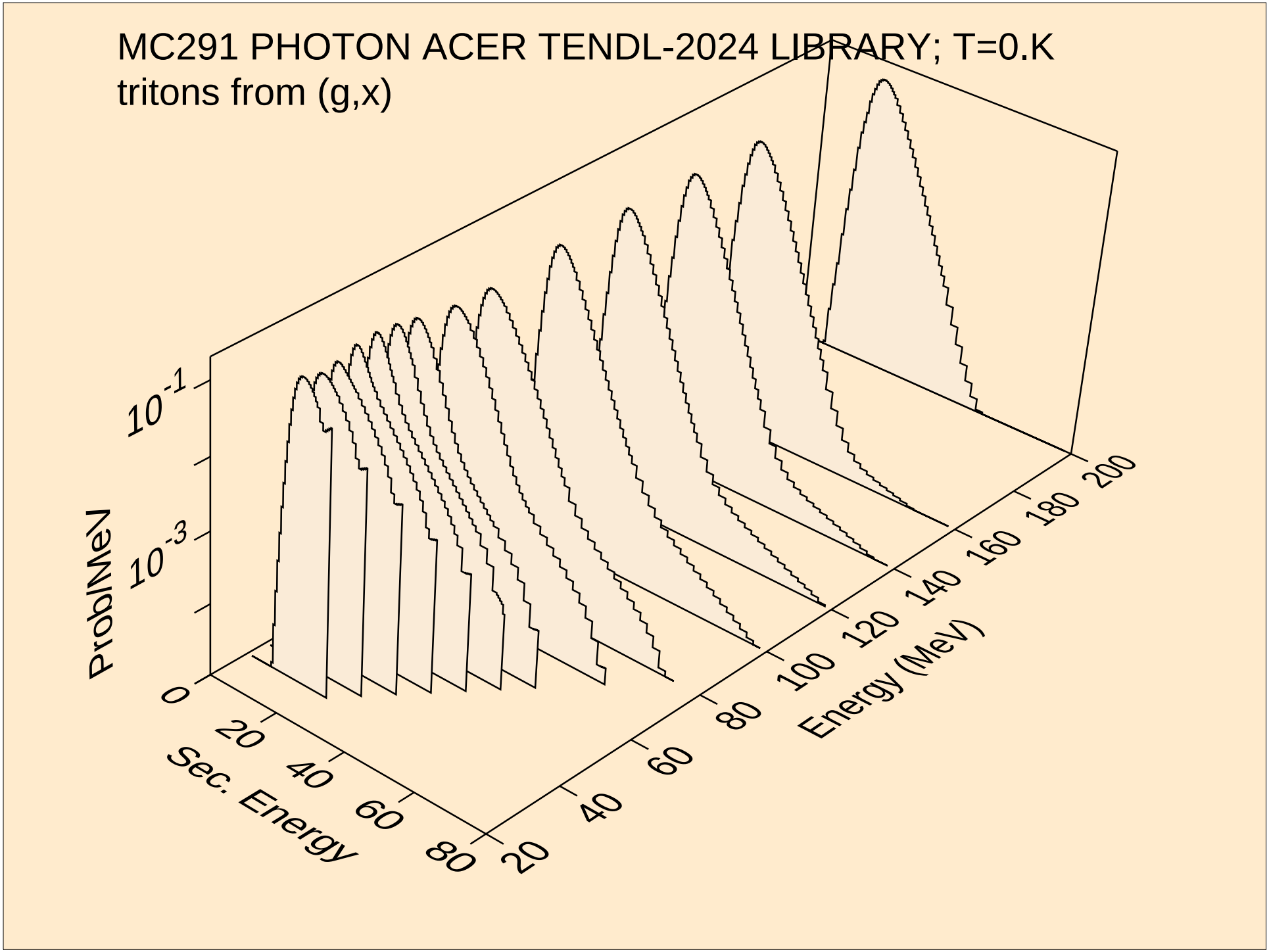

MC291 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
photons from (g,t)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0.0
0.5
1.0
1.5
Sec. Energy
5
10
15
20
25
30
Energy (MeV)

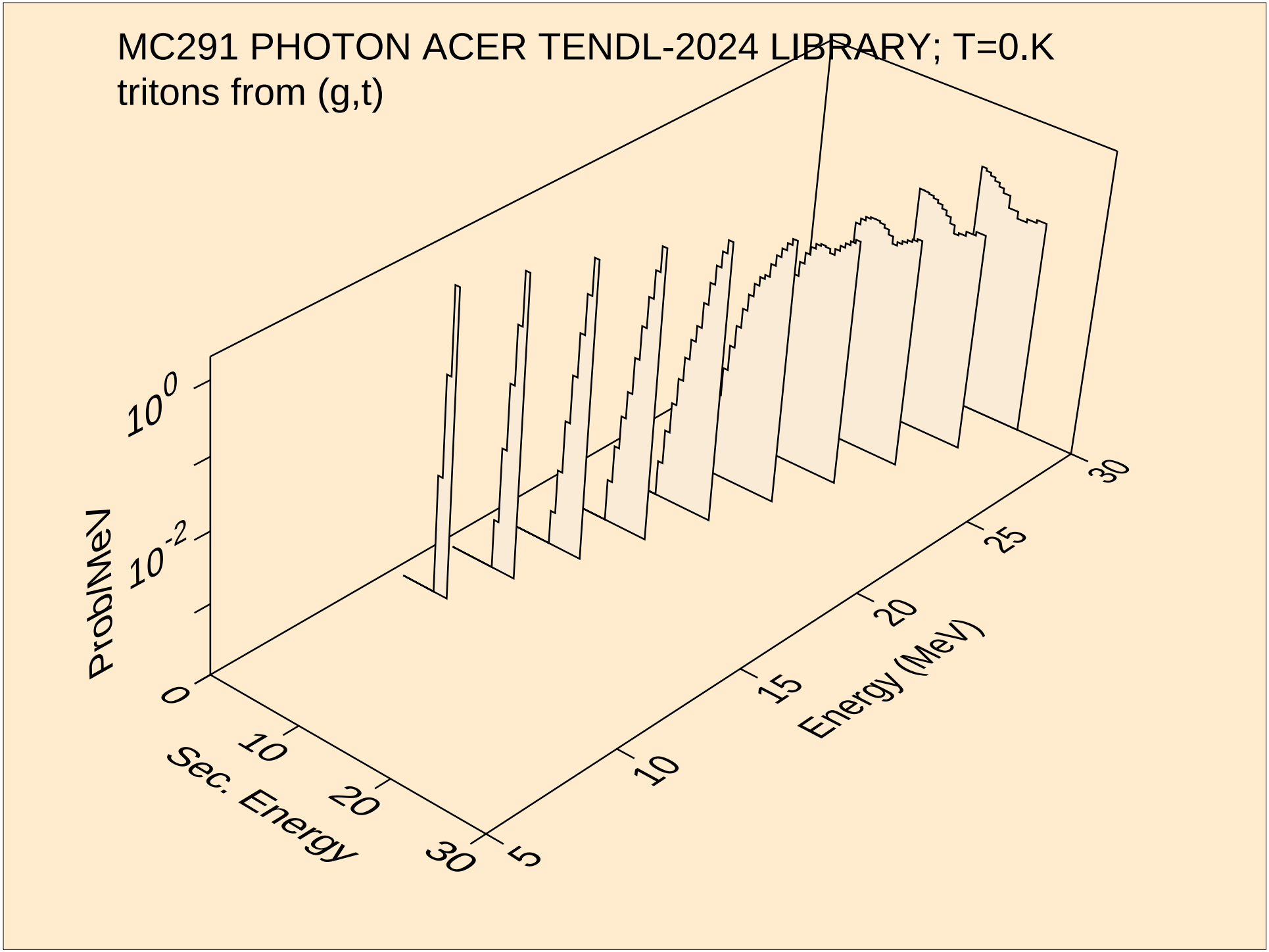

MC291 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
protons from (g,x)
Prob/MeV
10-1
10-3
10-5
0
50
100
150
200
Sec. Energy
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

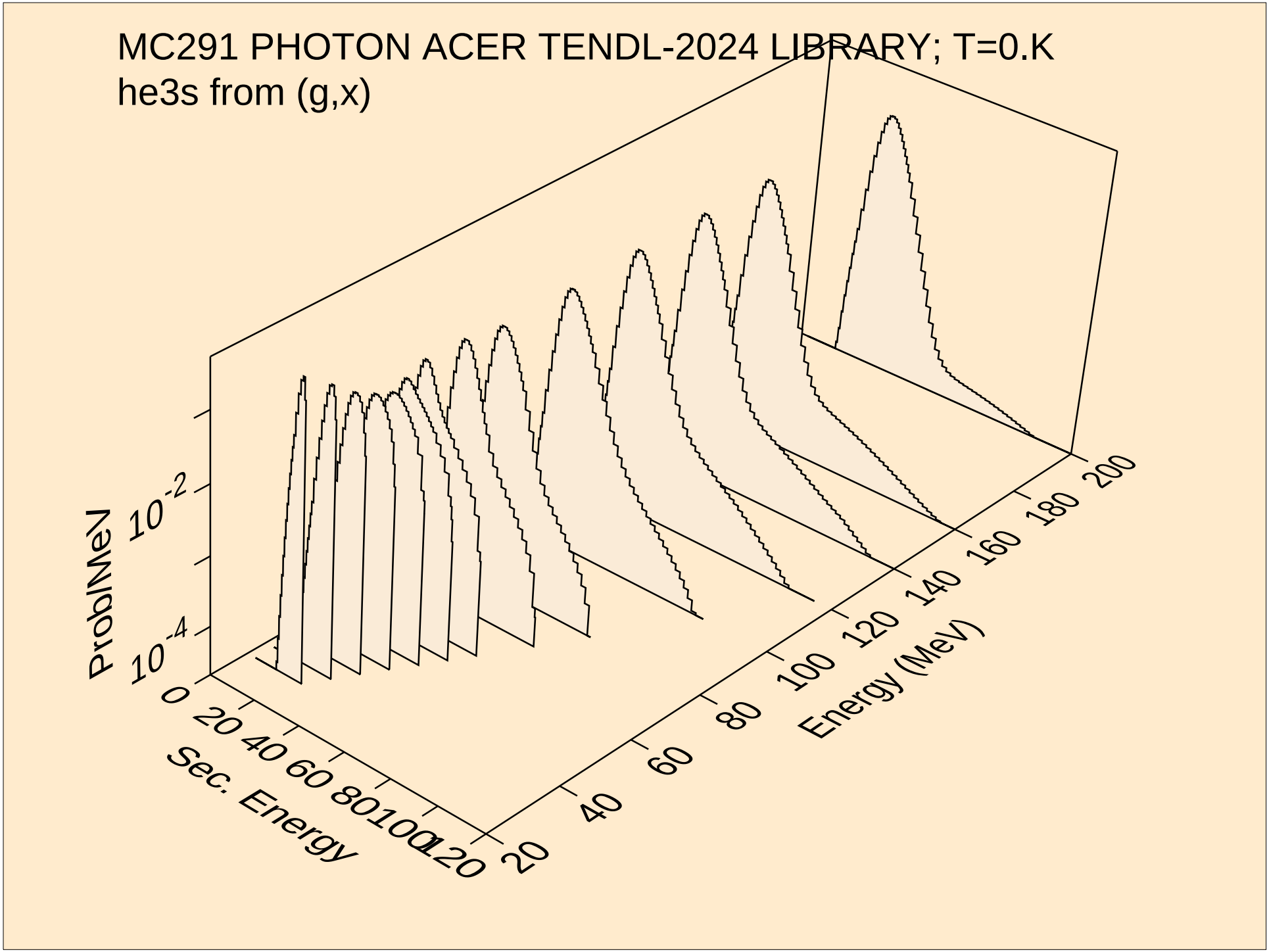

MC291 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
protons from (g,n*)p
Prob/MeV
10^0
10^-2
0
Sec. Energy
10
20
30
Energy (MeV)
5
10
15
20
25
30

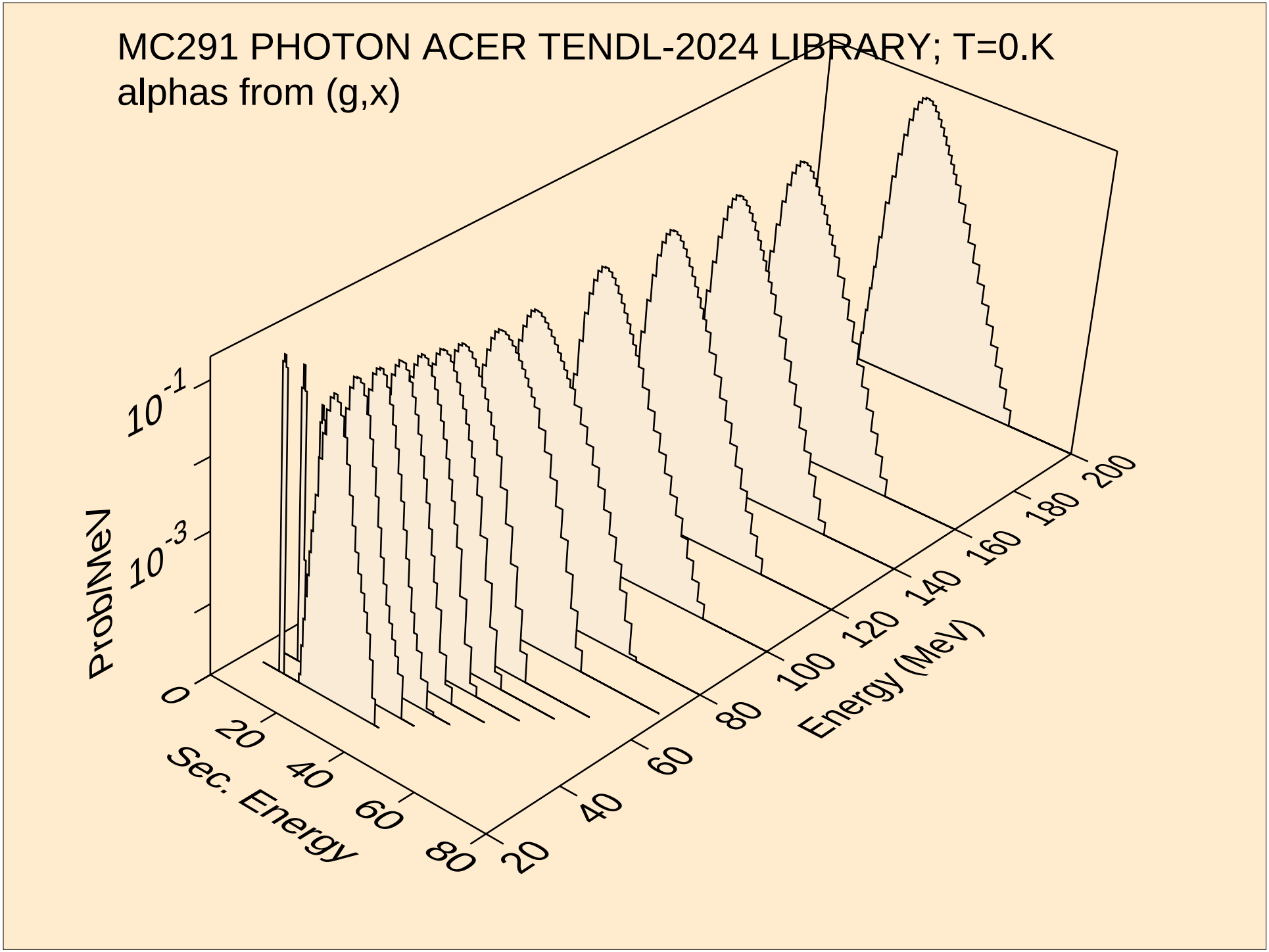

MC291 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
deuterons from (g,x)
Prob/MeV
10-1
10-3
0
50
100
150
200
Sec. Energy
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

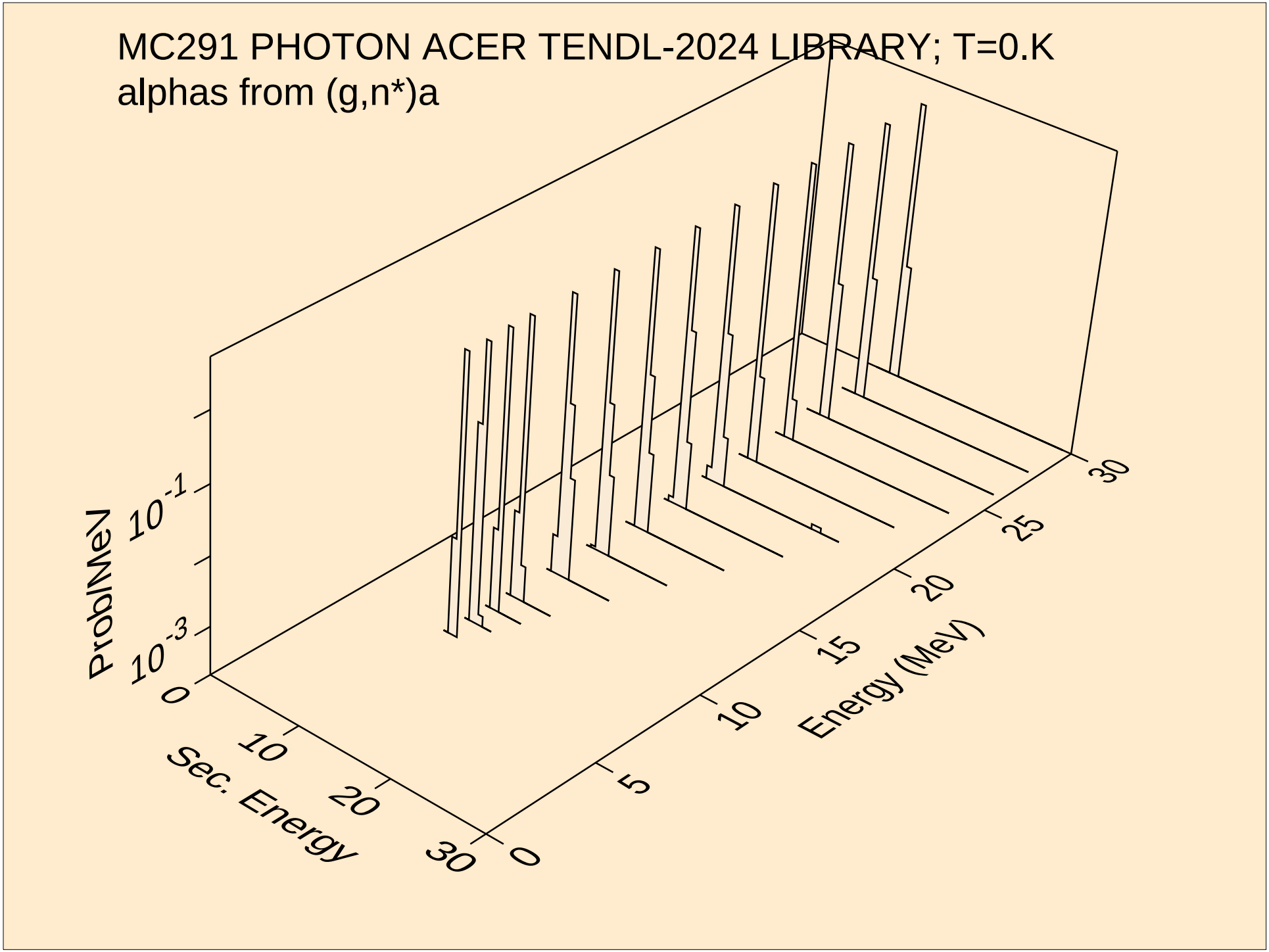

MC291 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
deuterons from (g,d)
Prob/MeV
10^0
10^-2
0
Sec. Energy
10
20
30
5
10
15
20
25
30
Energy (MeV)

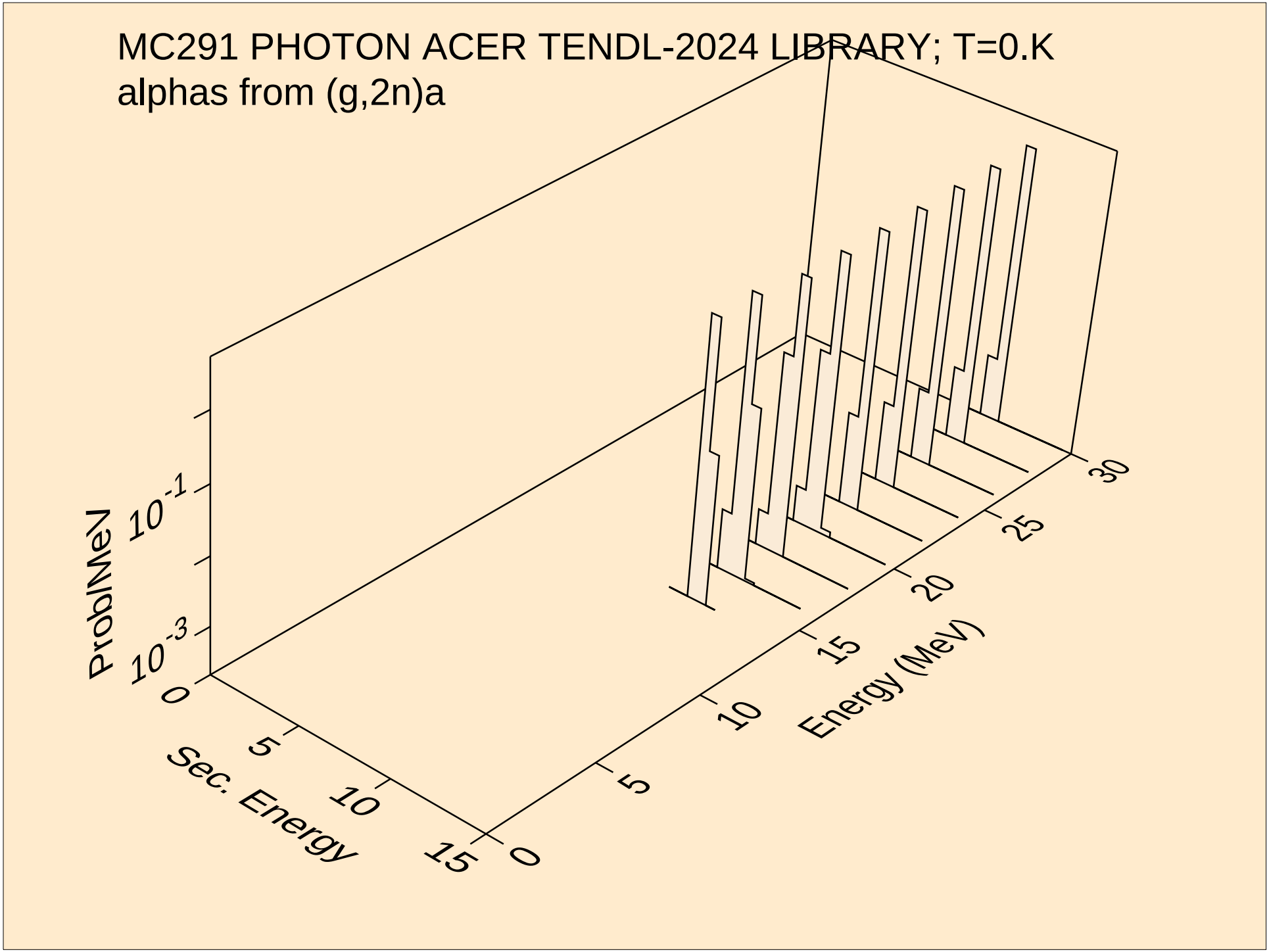

MC291 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
tritons from (g,x)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
60
80
Energy (MeV)
20
40
60
80
100
120
140
160
180
200

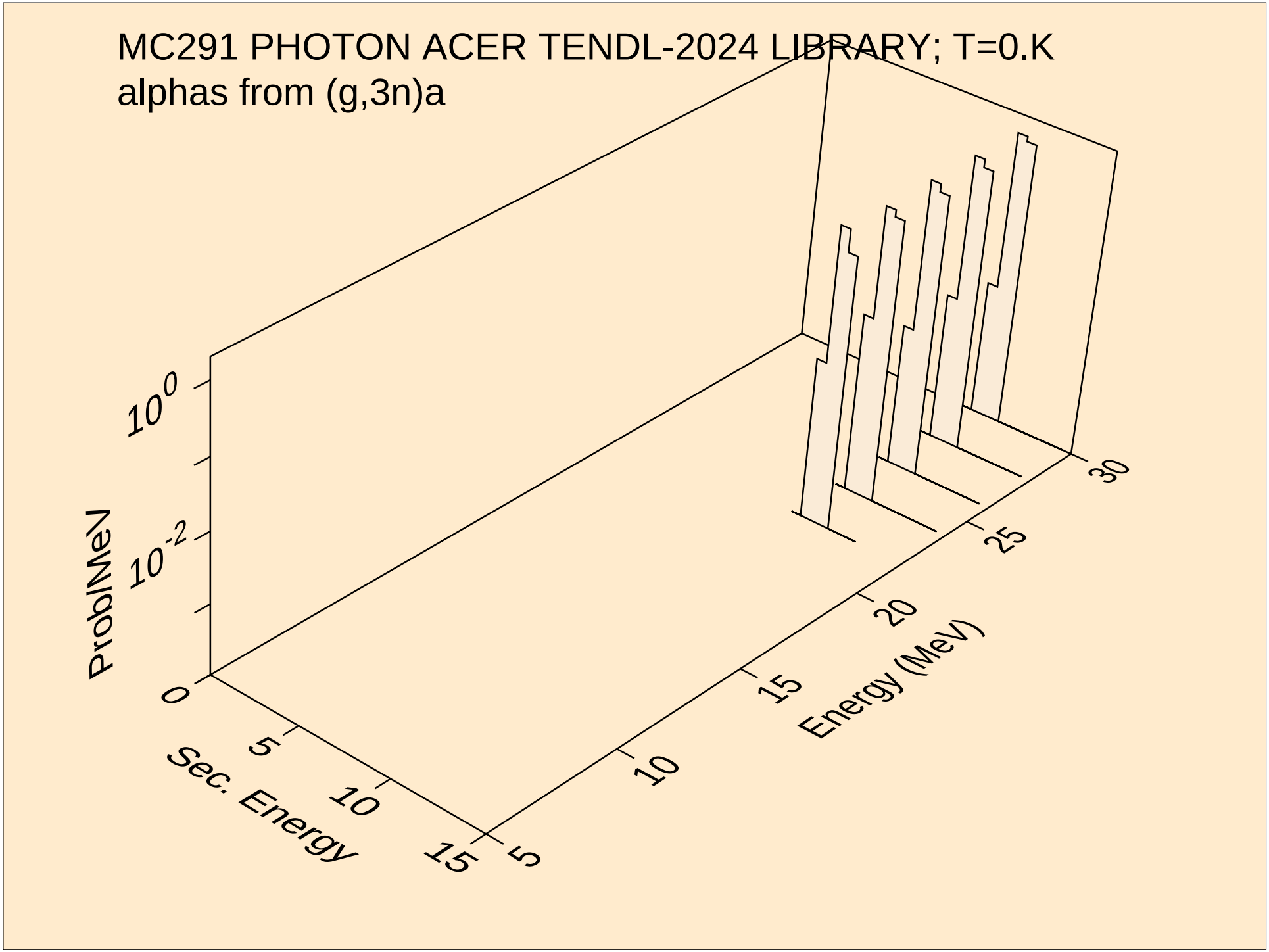

MC291 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
tritons from (g,t)
Prob/MeV
10^{0}
10^{-2}
0
Sec. Energy
10
20
30
5
10
15
20
25
30
Energy (MeV)


MC291 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
he3s from (g,x)
Prob/MeV
10-2
10-4
0
20
40
60
80
100
120
Sec. Energy
20
40
60
80
100
120
140
160
180
200
Energy (MeV)


MC291 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
alphas from (g,x)
Prob/MeV
10-1
10-3
0
20
40
60
80
Sec. Energy
20
40
60
80
100
120
140
160
180
200
Energy (MeV)


MC291 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
alphas from (g,n*)a
Prob/MeV
10-1
10-3
0
10
20
30
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)


MC291 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
alphas from (g,2n)a
Prob/MeV
10-1
10-3
0
5
10
15
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)


MC291 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
alphas from (g,3n)a
Prob/MeV
10^0
10^-2
0
Sec. Energy
5
10
15
Energy (MeV)
5
10
15
20
25
30