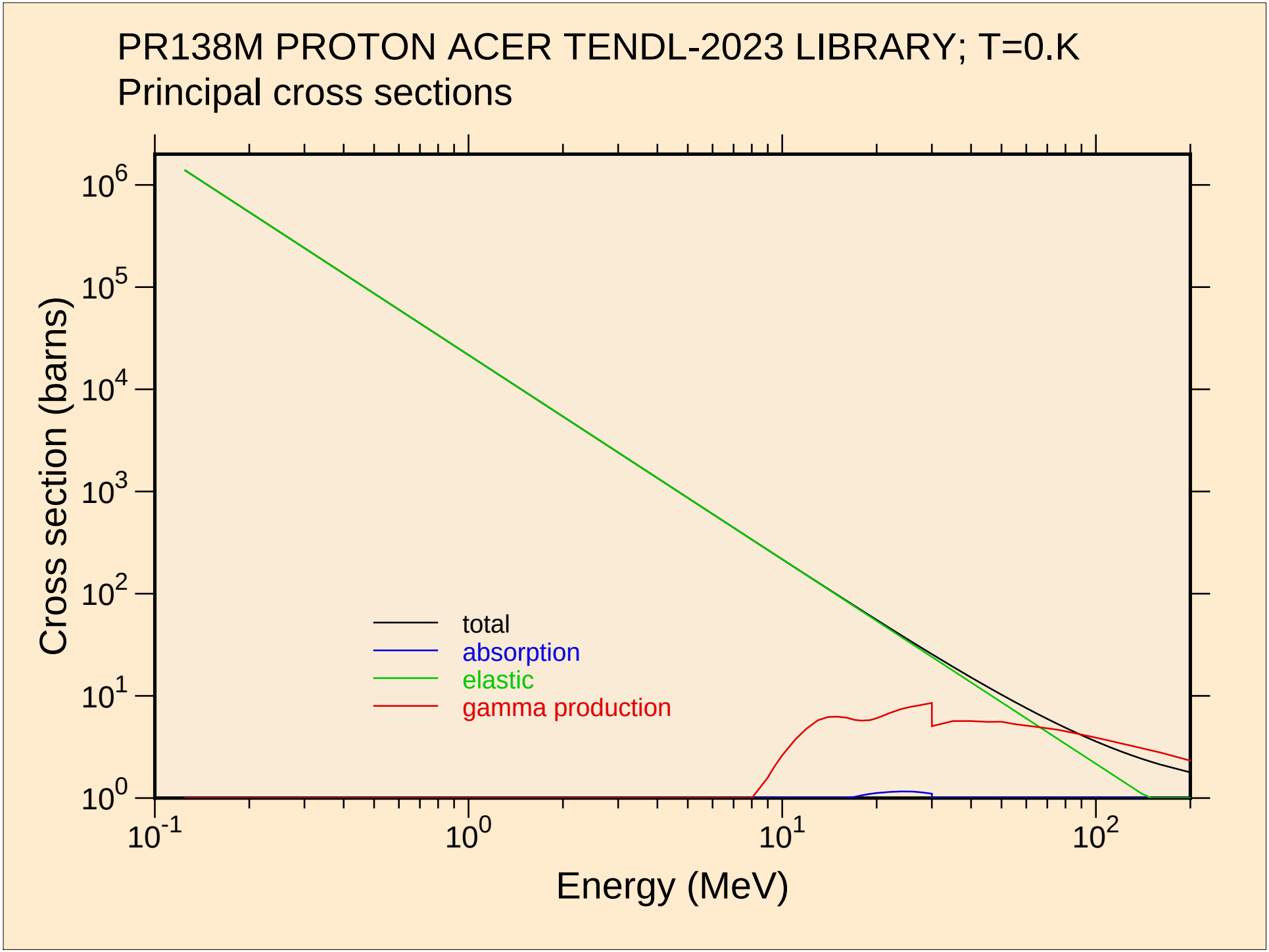
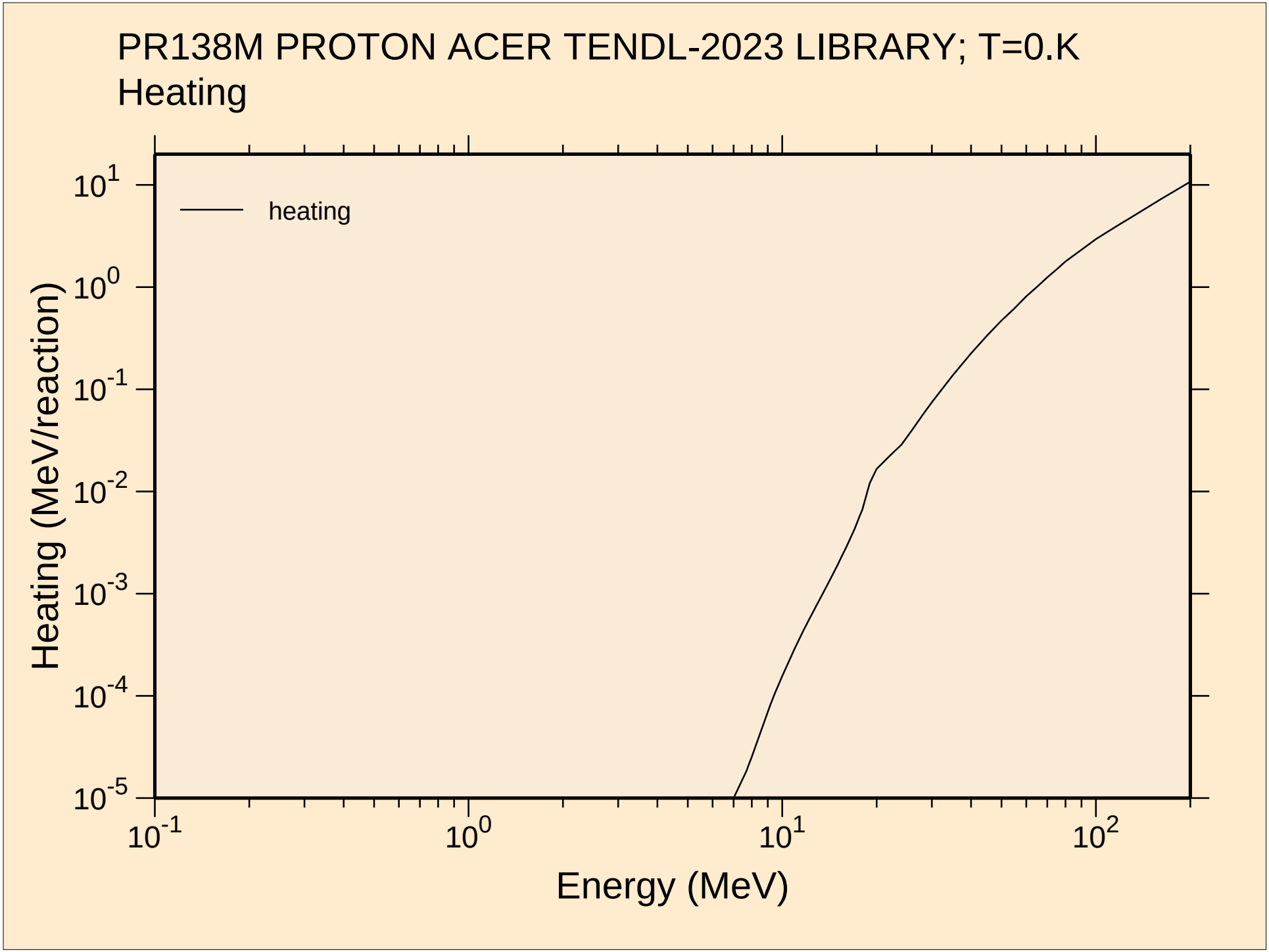
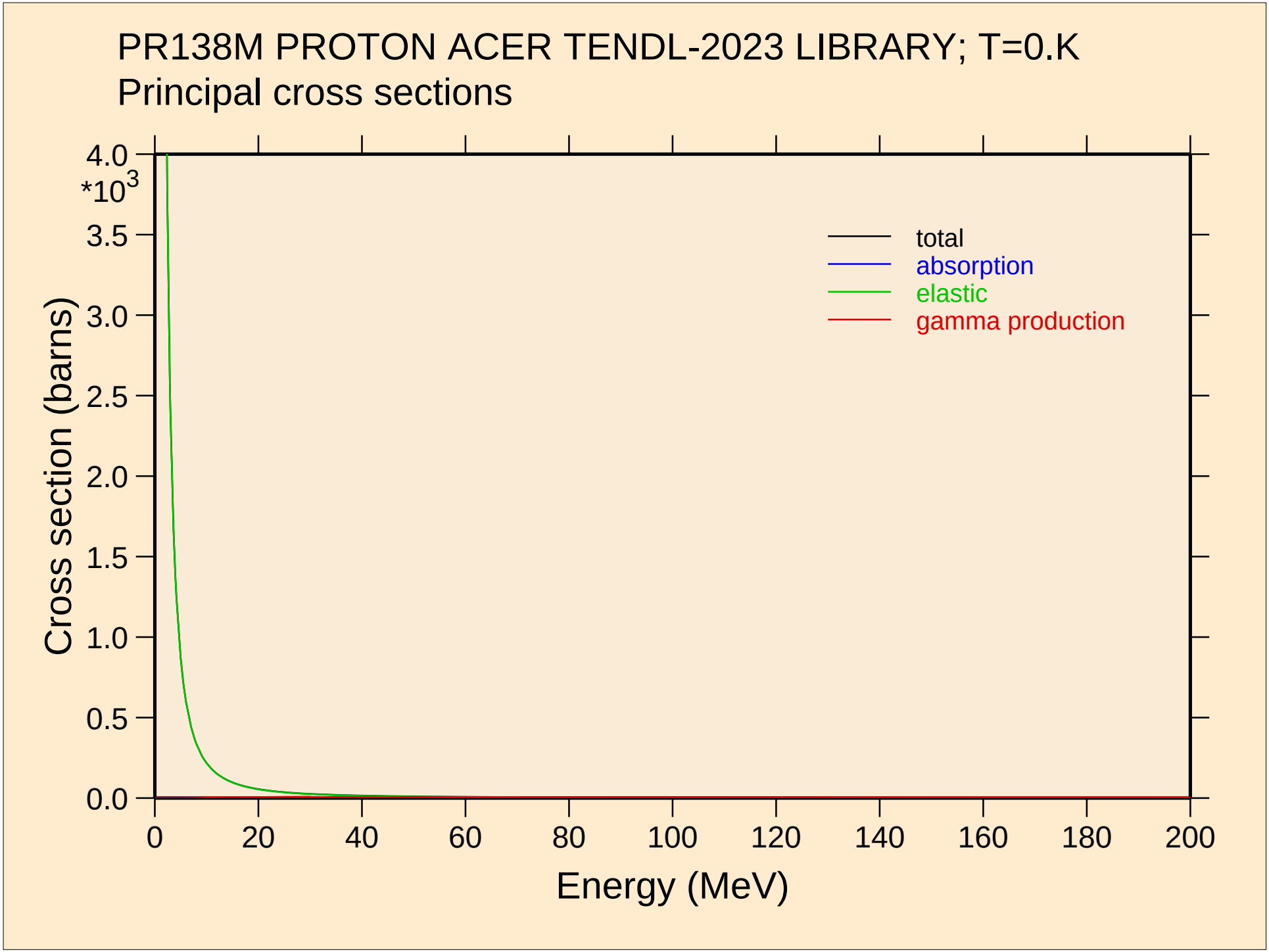
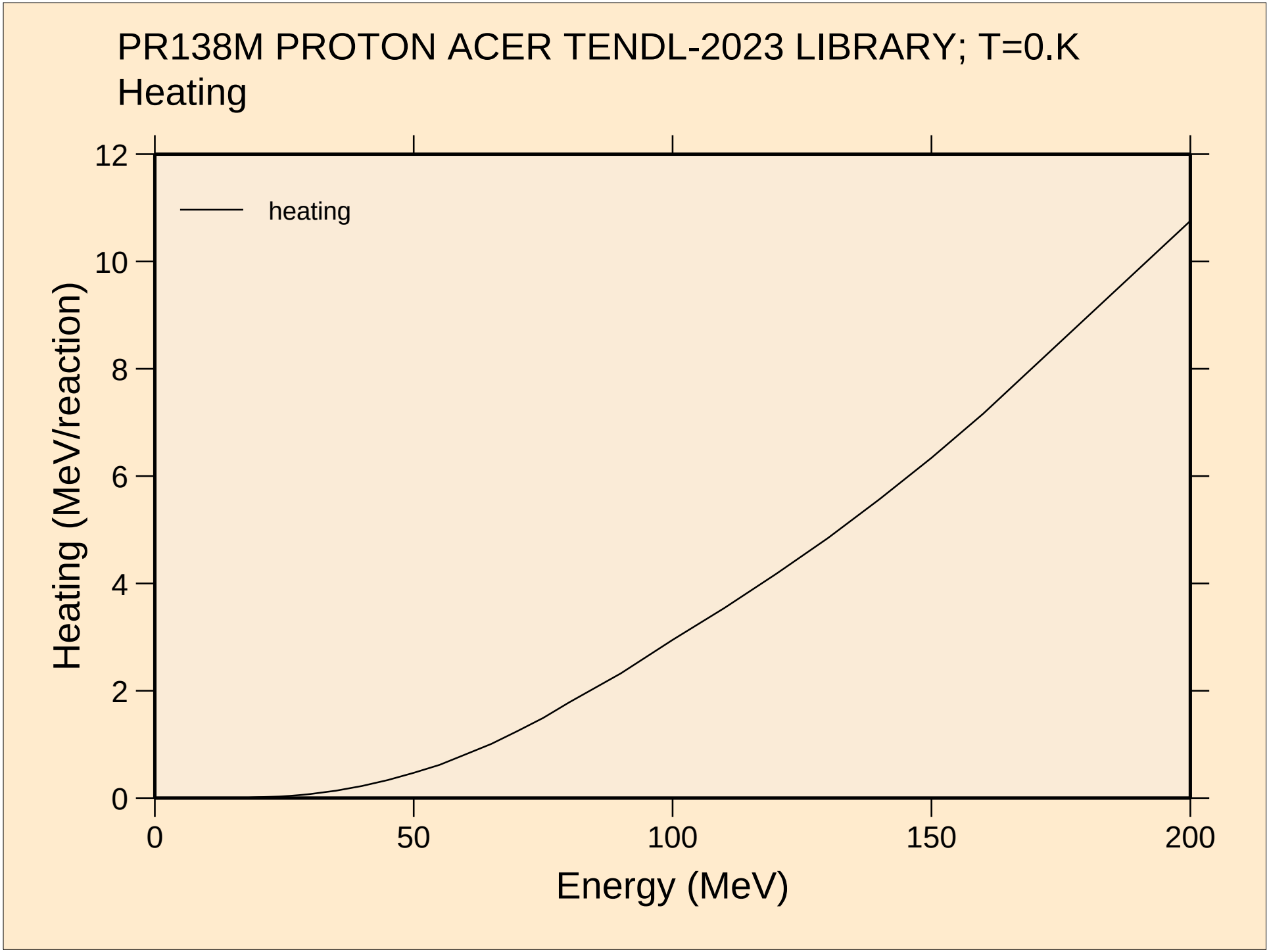
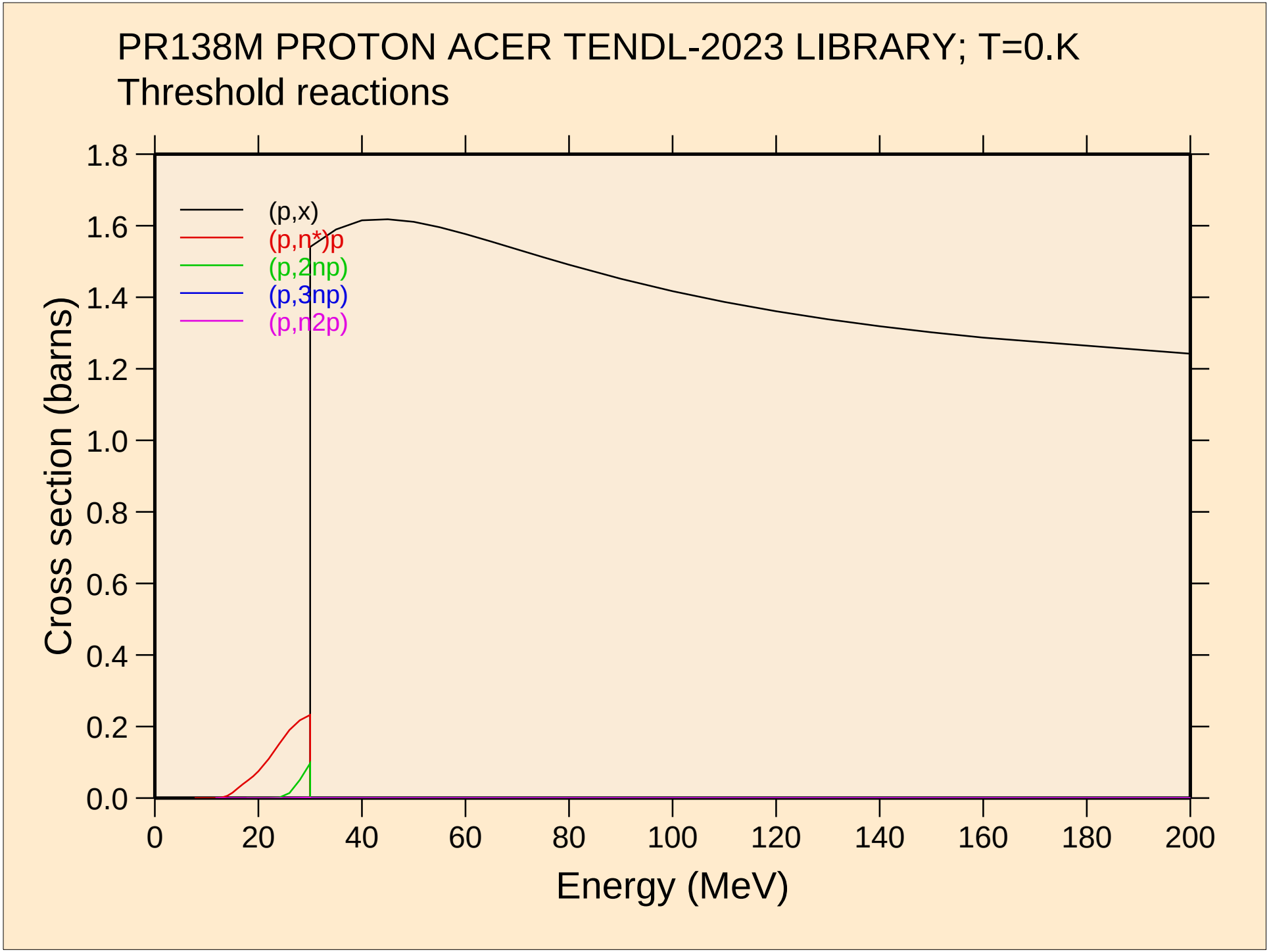
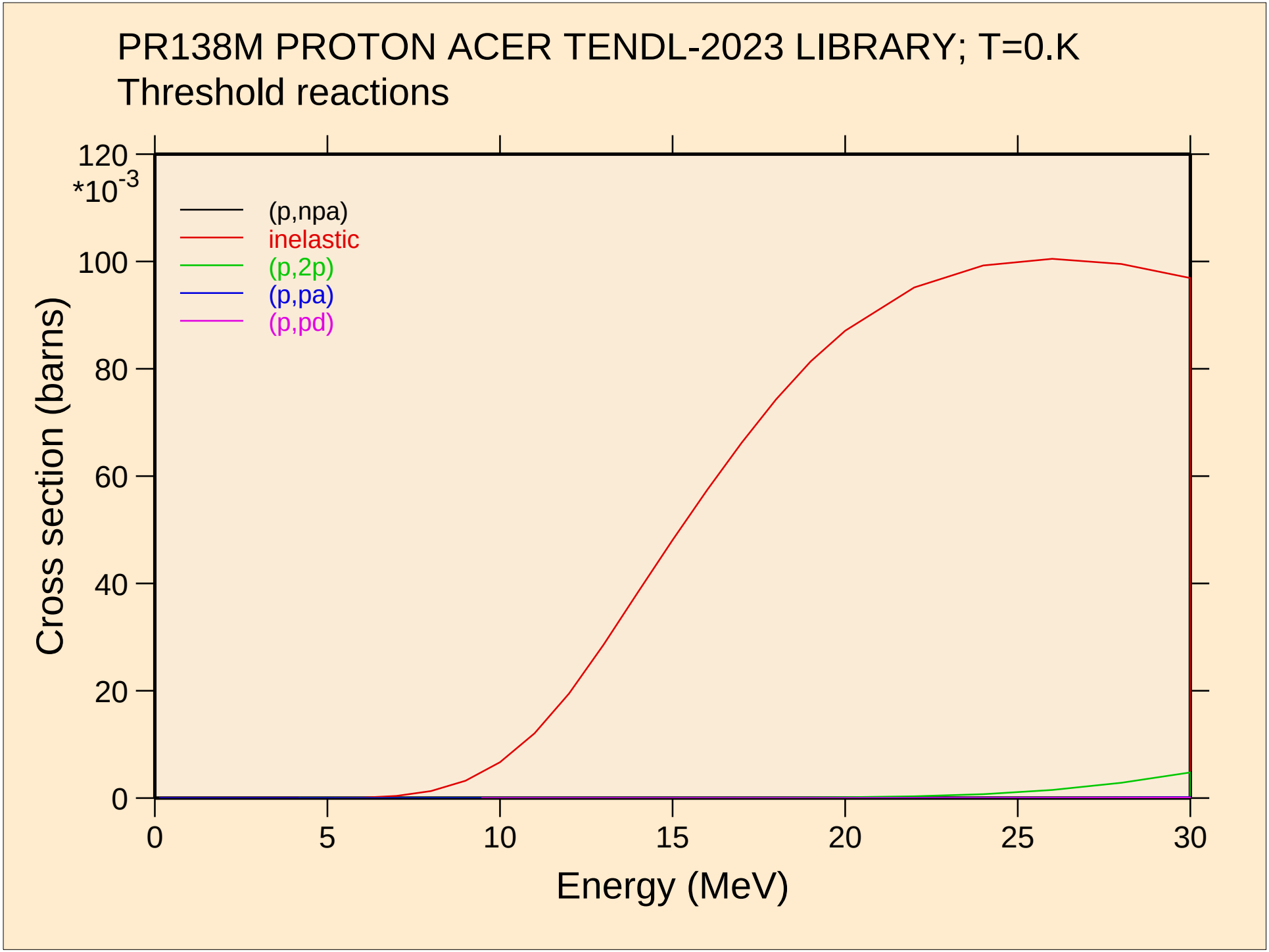

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Principal cross sections
Cross section (barns)
Energy (MeV)
total
absorption
elastic
gamma production

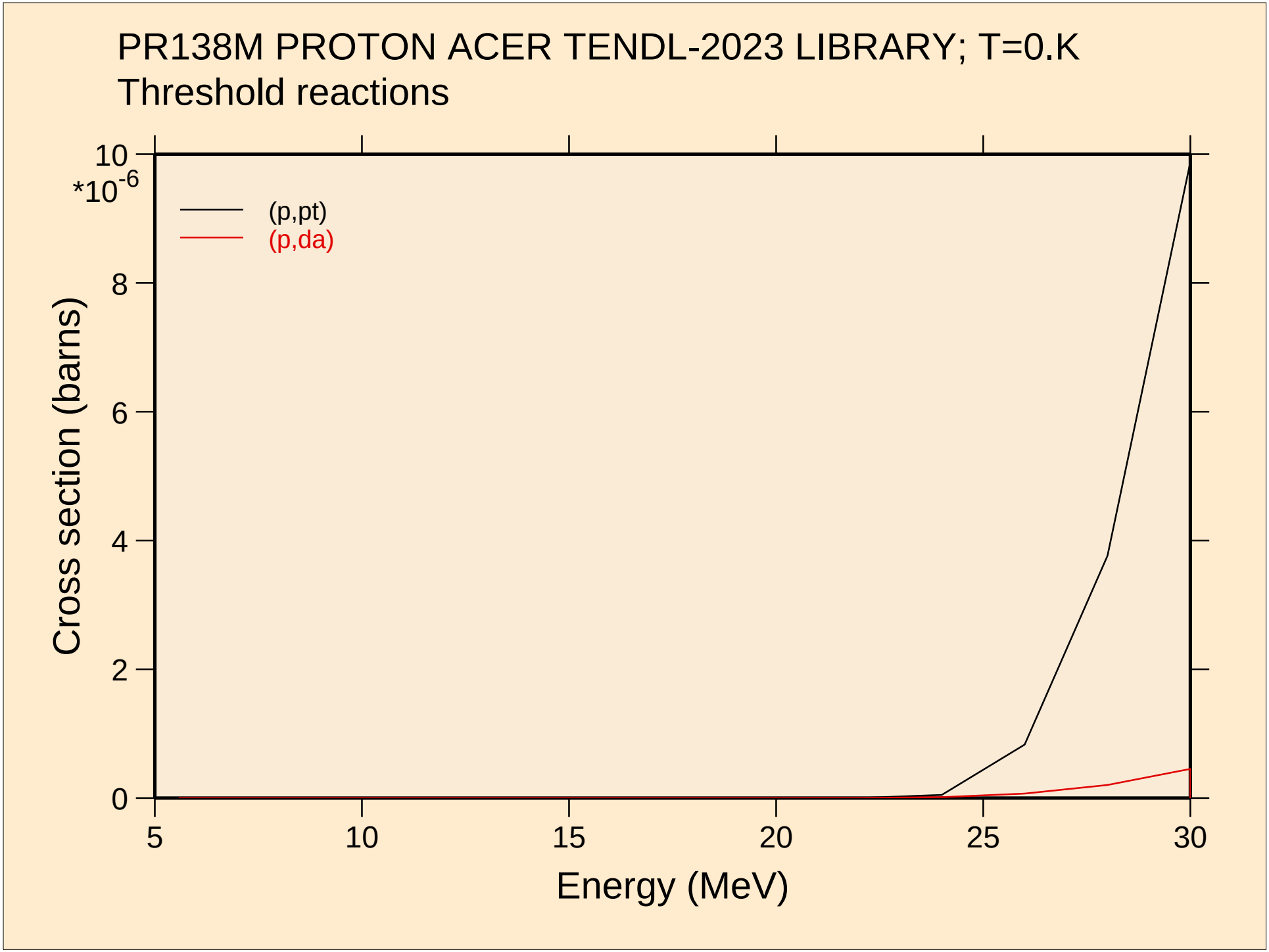

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
10^1
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
10^-1
10^0
10^1
10^2

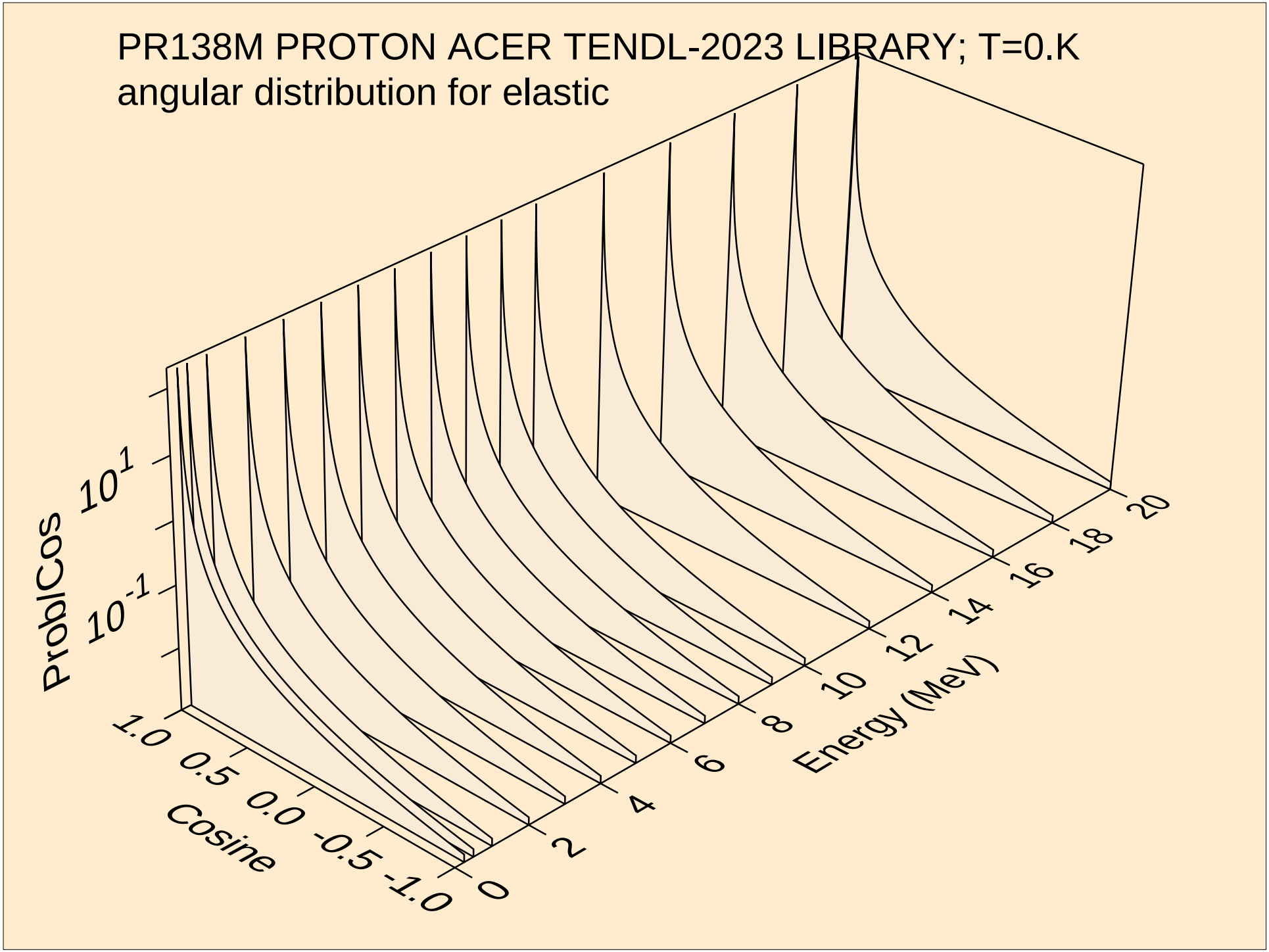

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Principal cross sections
Cross section (barns)
*10^3
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20
40
60
80
100
120
140
160
180
200
Energy (MeV)
total
absorption
elastic
gamma production

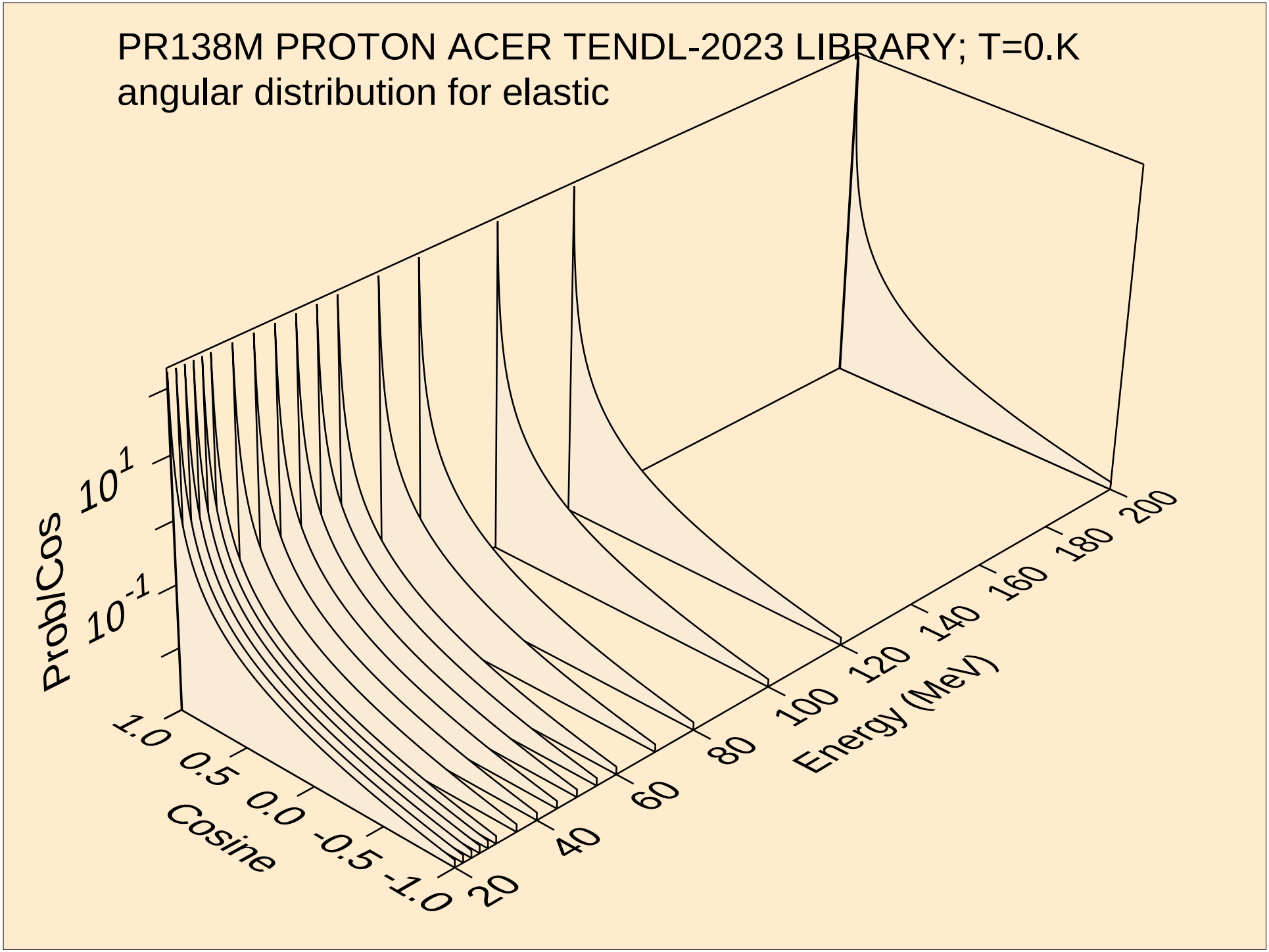

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
0
2
4
6
8
10
12
0
50
100
150
200

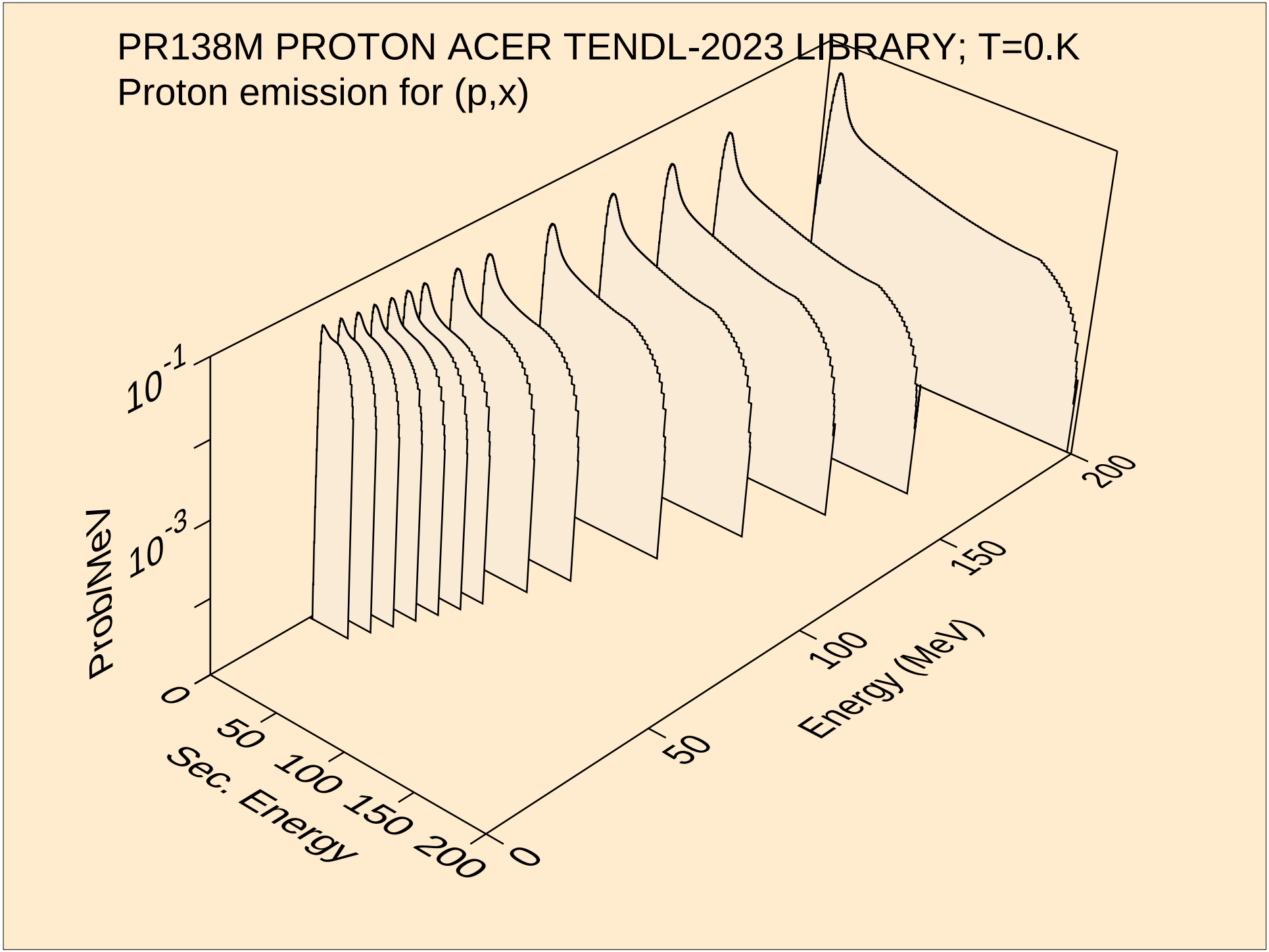

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions
(p,x)
(p,n*)p
(p,2np)
(p,3np)
(p,n2p)
Cross section (barns)
Energy (MeV)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
0
20
40
60
80
100
120
140
160
180
200

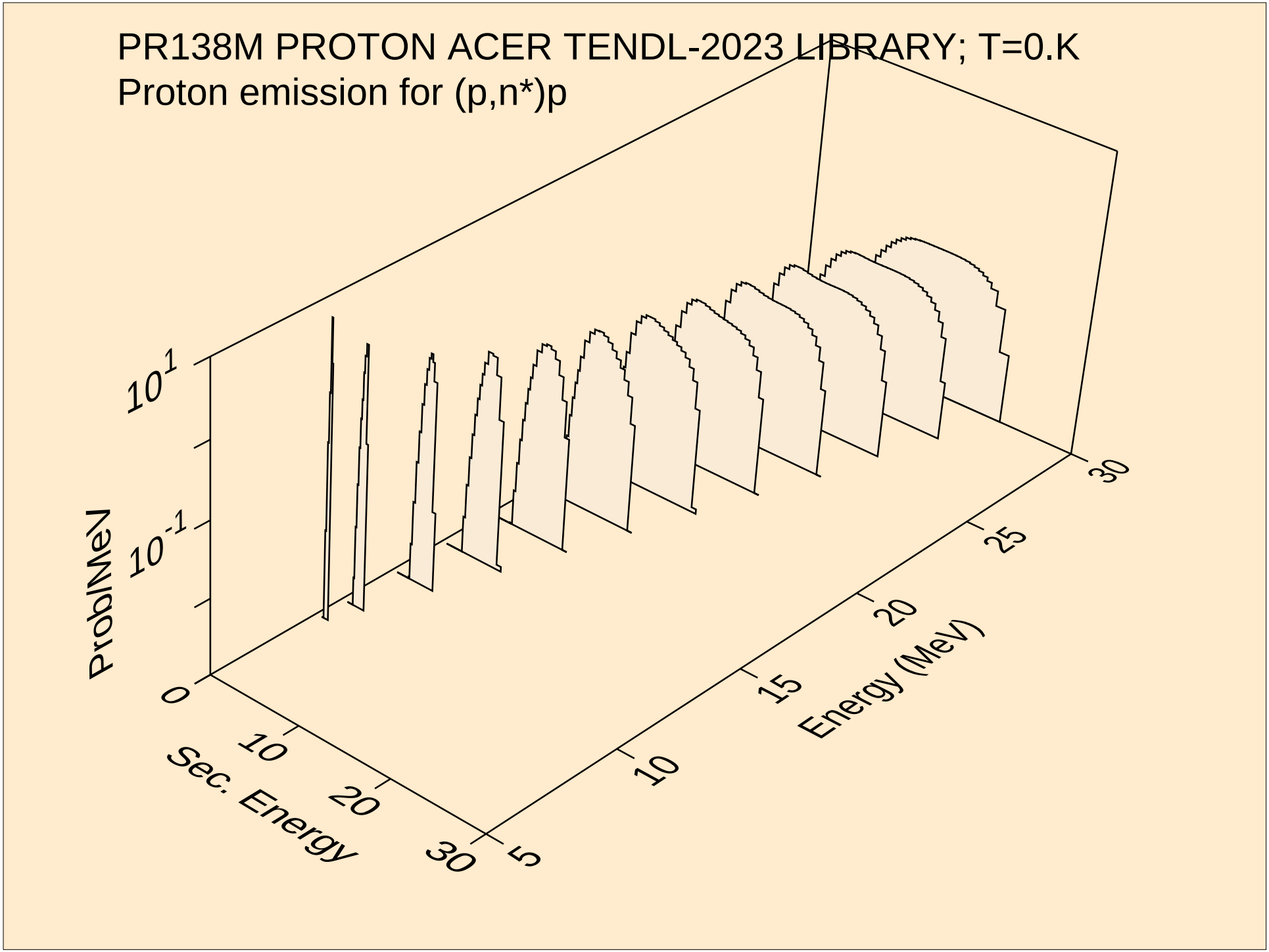

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions
120
*10-3
100
80
60
40
20
0
Cross section (barns)
(p,npa)
inelastic
(p,2p)
(p,pa)
(p,pd)
0
5
10
15
20
25
30
Energy (MeV)

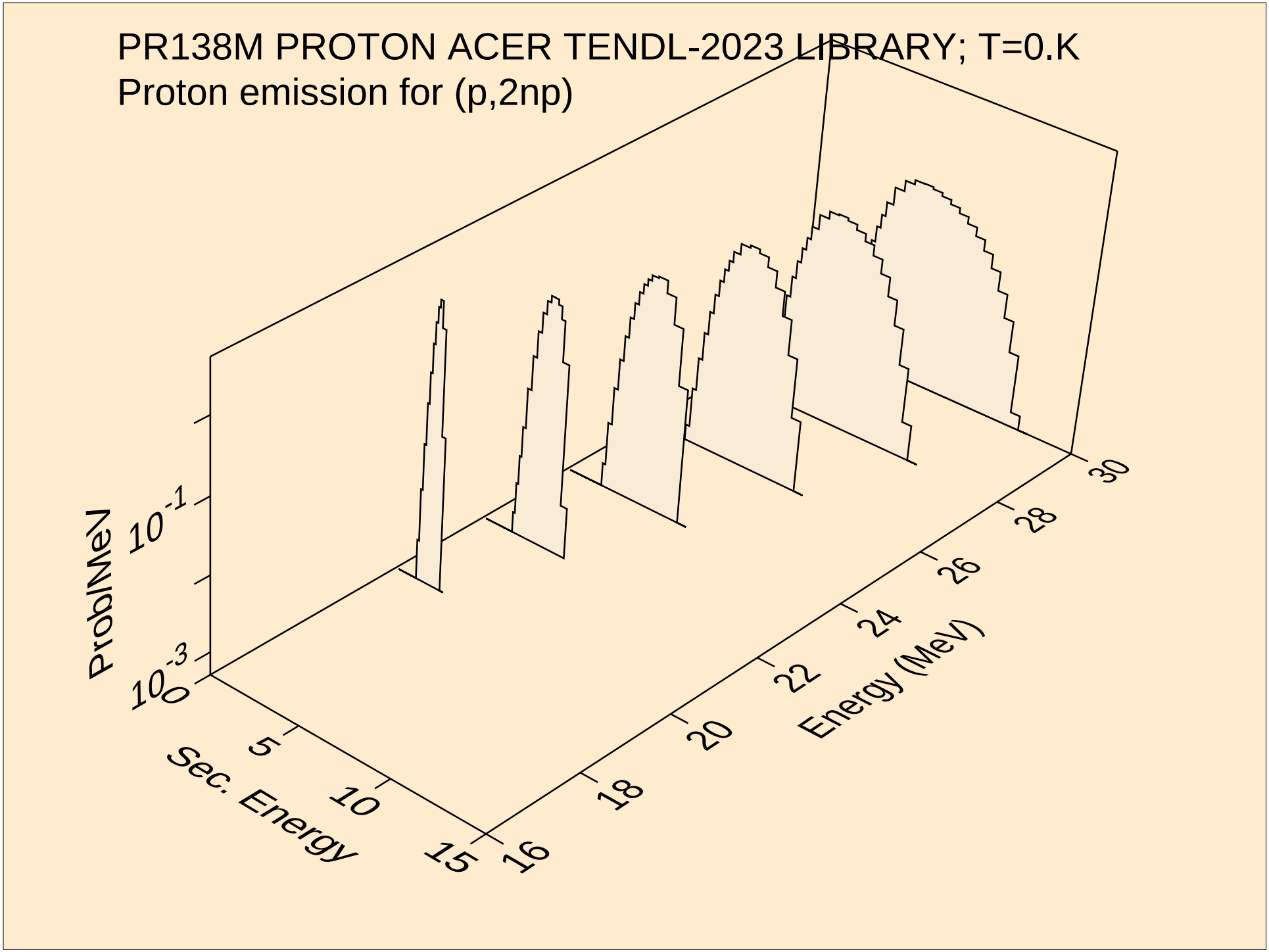

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions
10
*10-6
8
6
4
2
0
(p,pt)
(p,da)
Cross section (barns)
5
10
15
20
25
30
Energy (MeV)

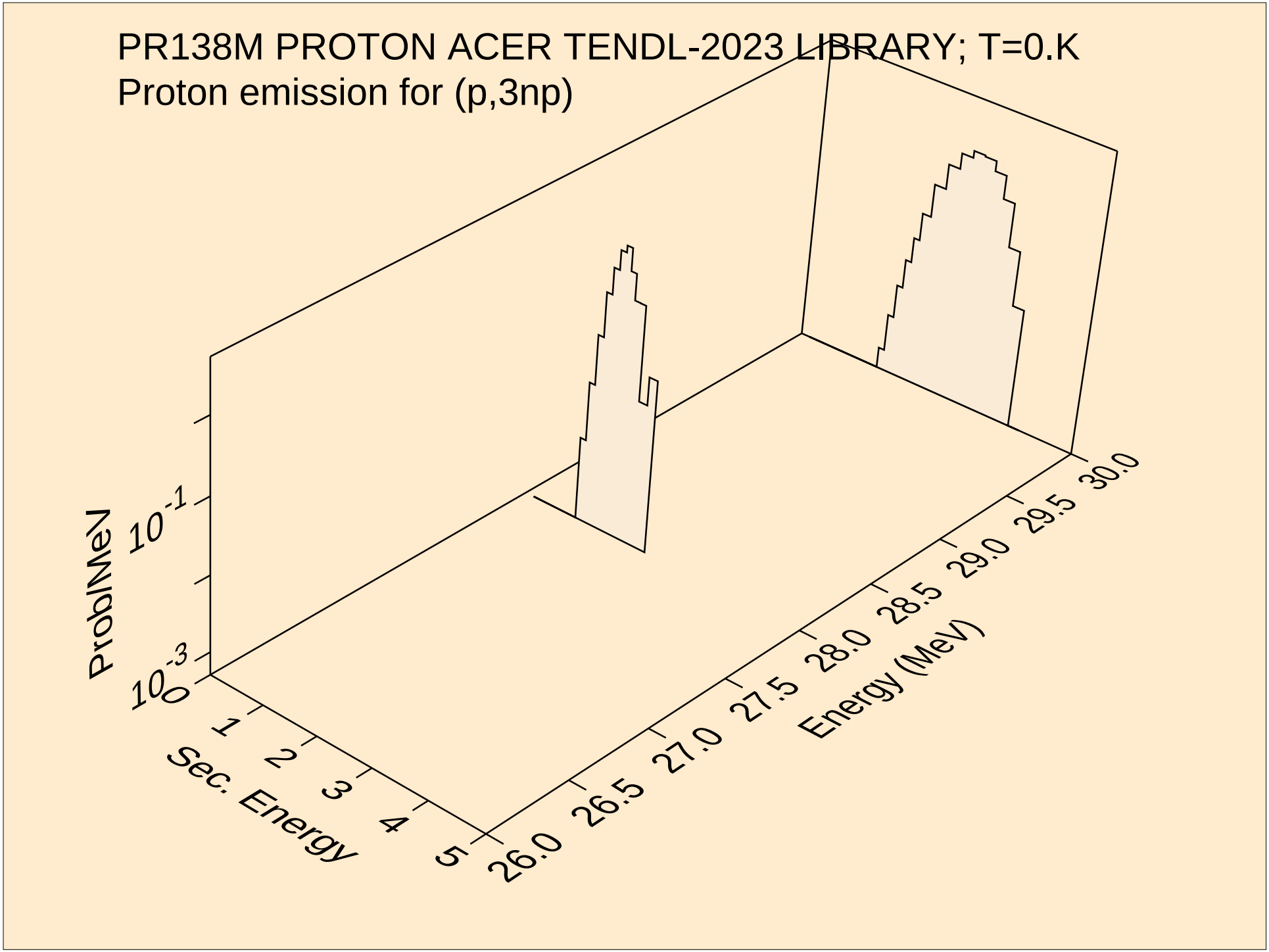

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for elastic
ProbCos
10^{1}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

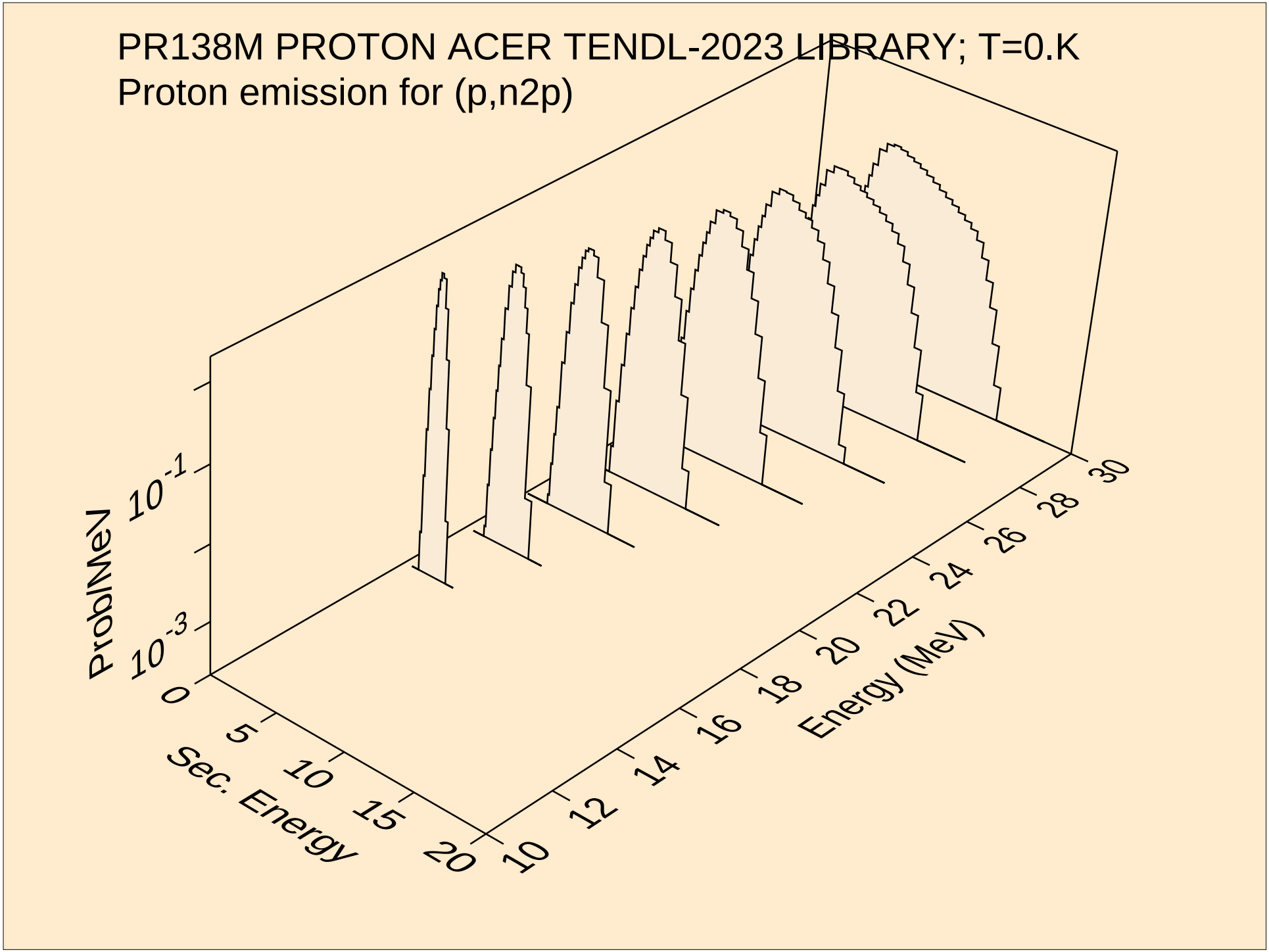

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for elastic
ProbICos
10^1
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

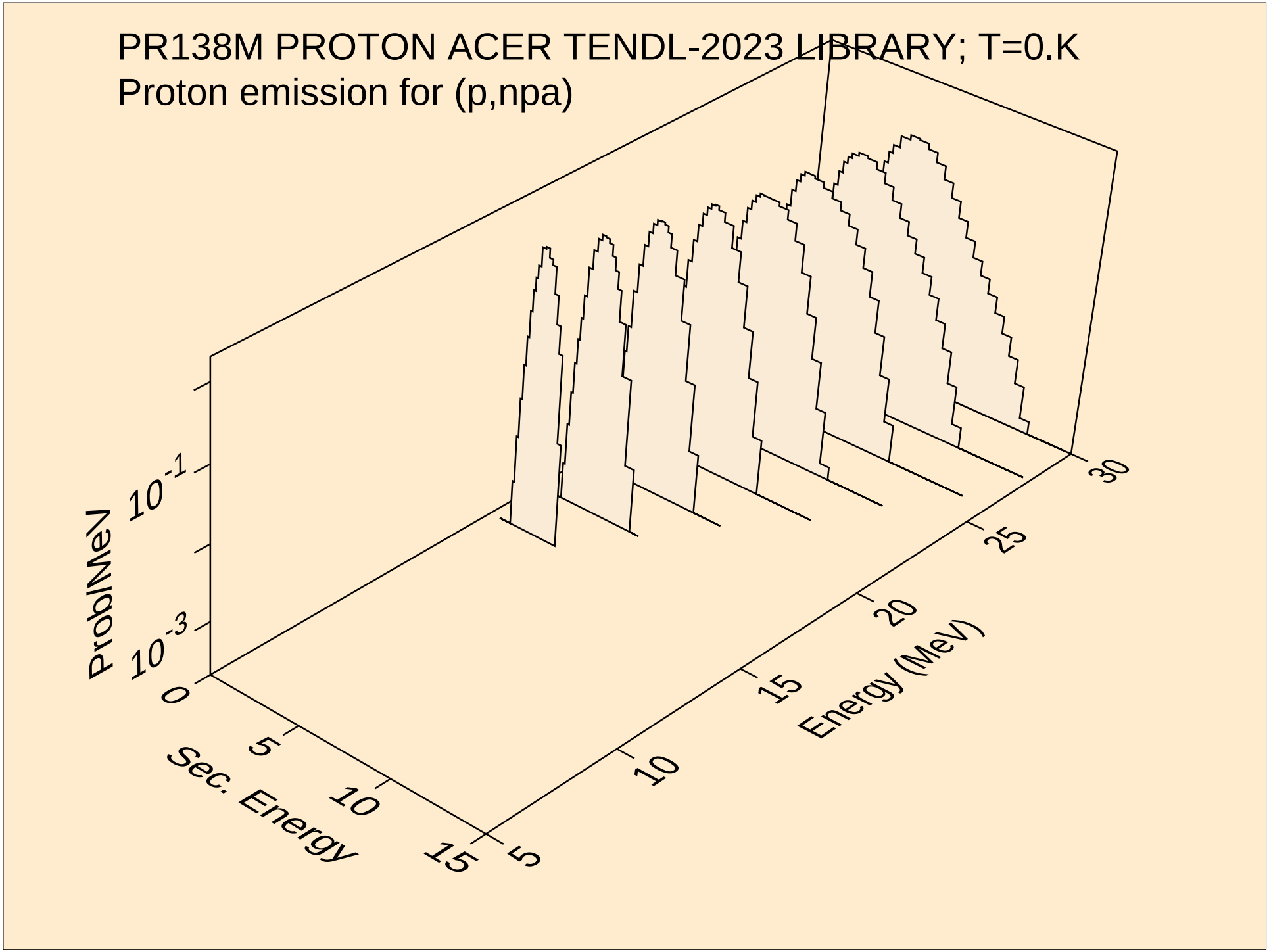

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Proton emission for (p,x)
Prob/MeV
10-1
10-3
0
Sec. Energy
50
100
150
200
0
50
100
150
200
Energy (MeV)

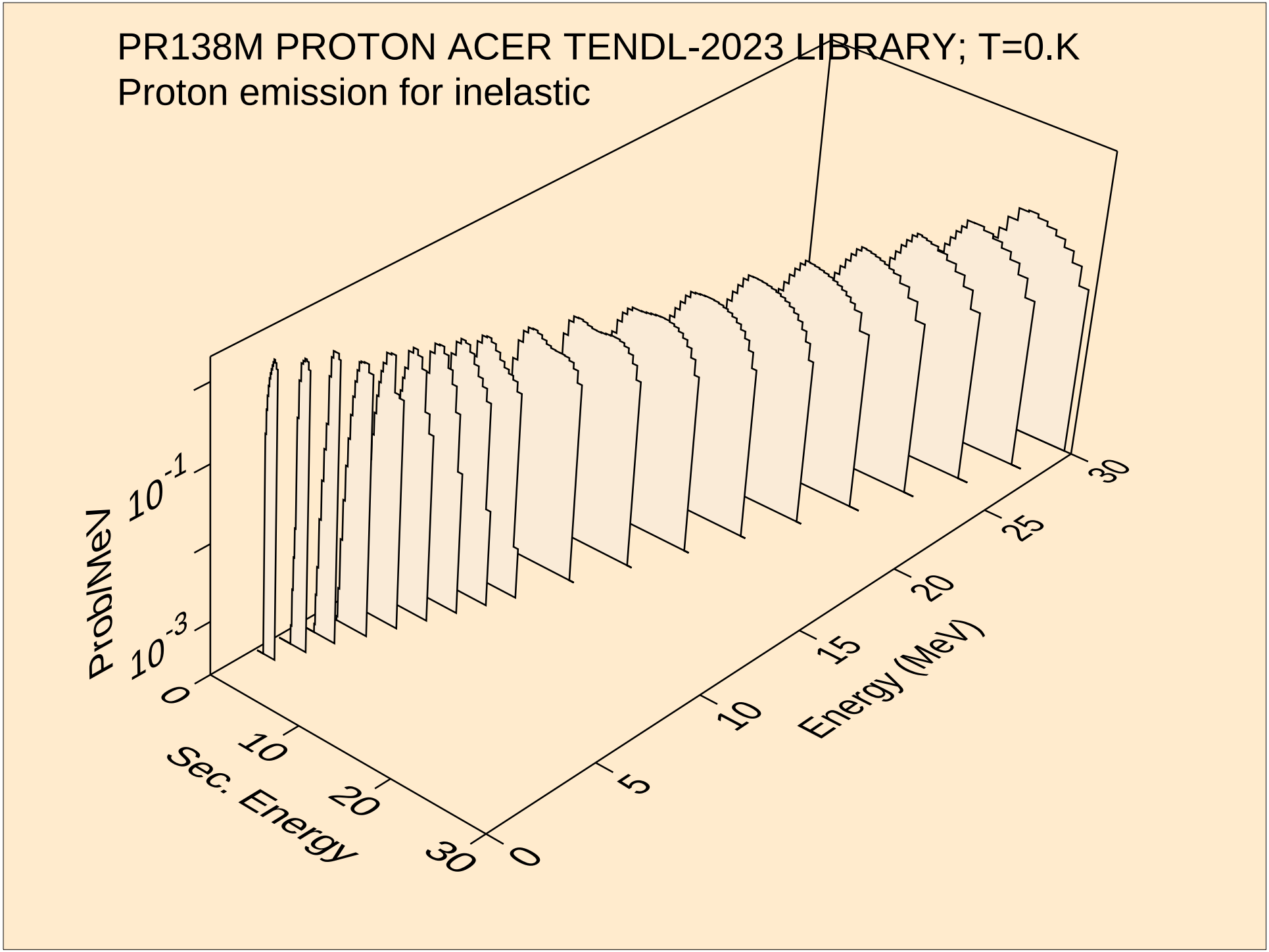

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Proton emission for (p,n*)p
Prob/MeV
10^1
10^-1
0
10
20
30
Sec. Energy
5
10
15
20
25
30
Energy (MeV)

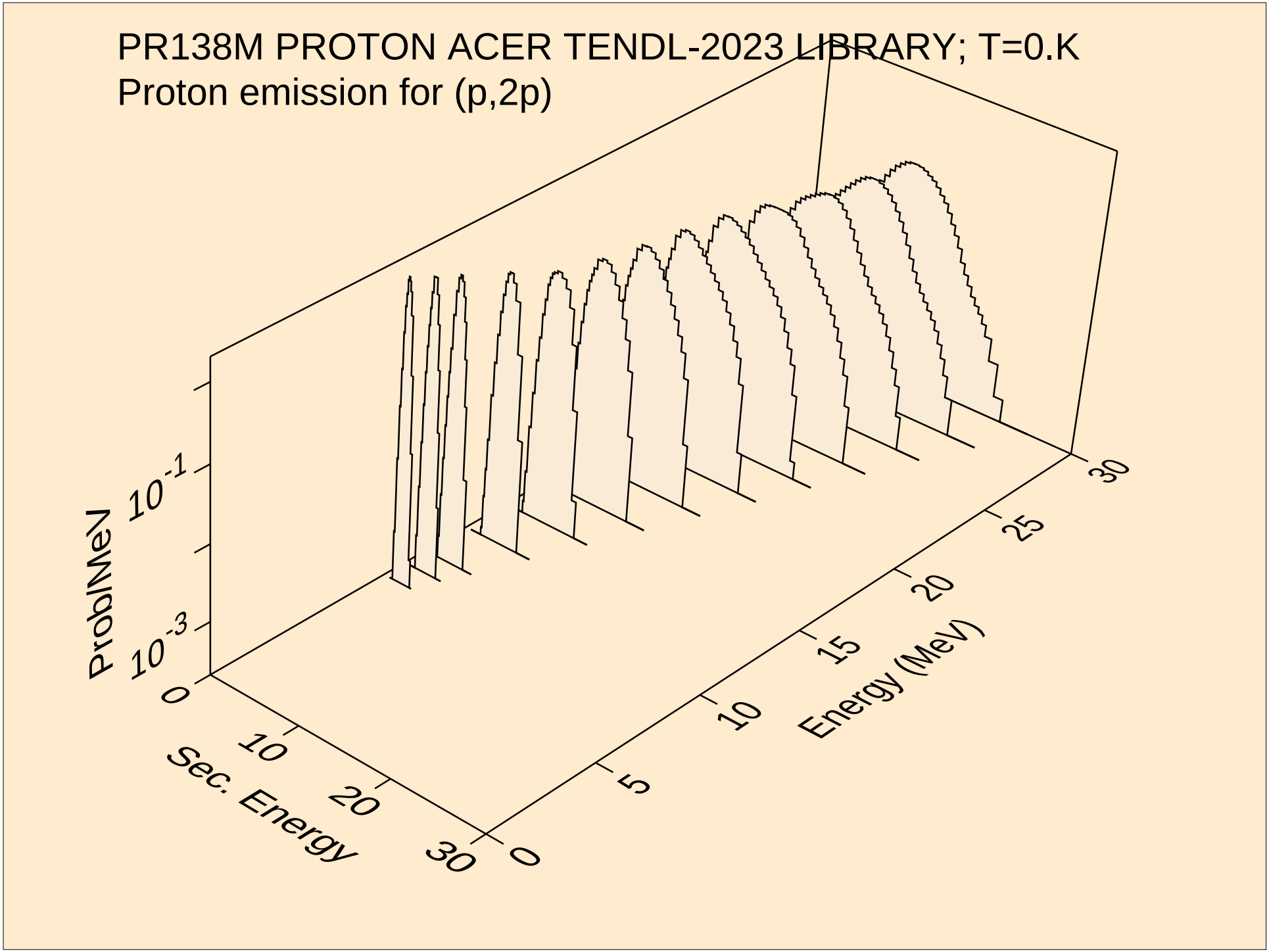

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Proton emission for (p,2np)
Prob/MeV
10-1
10-3
0
5
10
15
Sec. Energy
16
18
20
22
24
26
28
30
Energy (MeV)

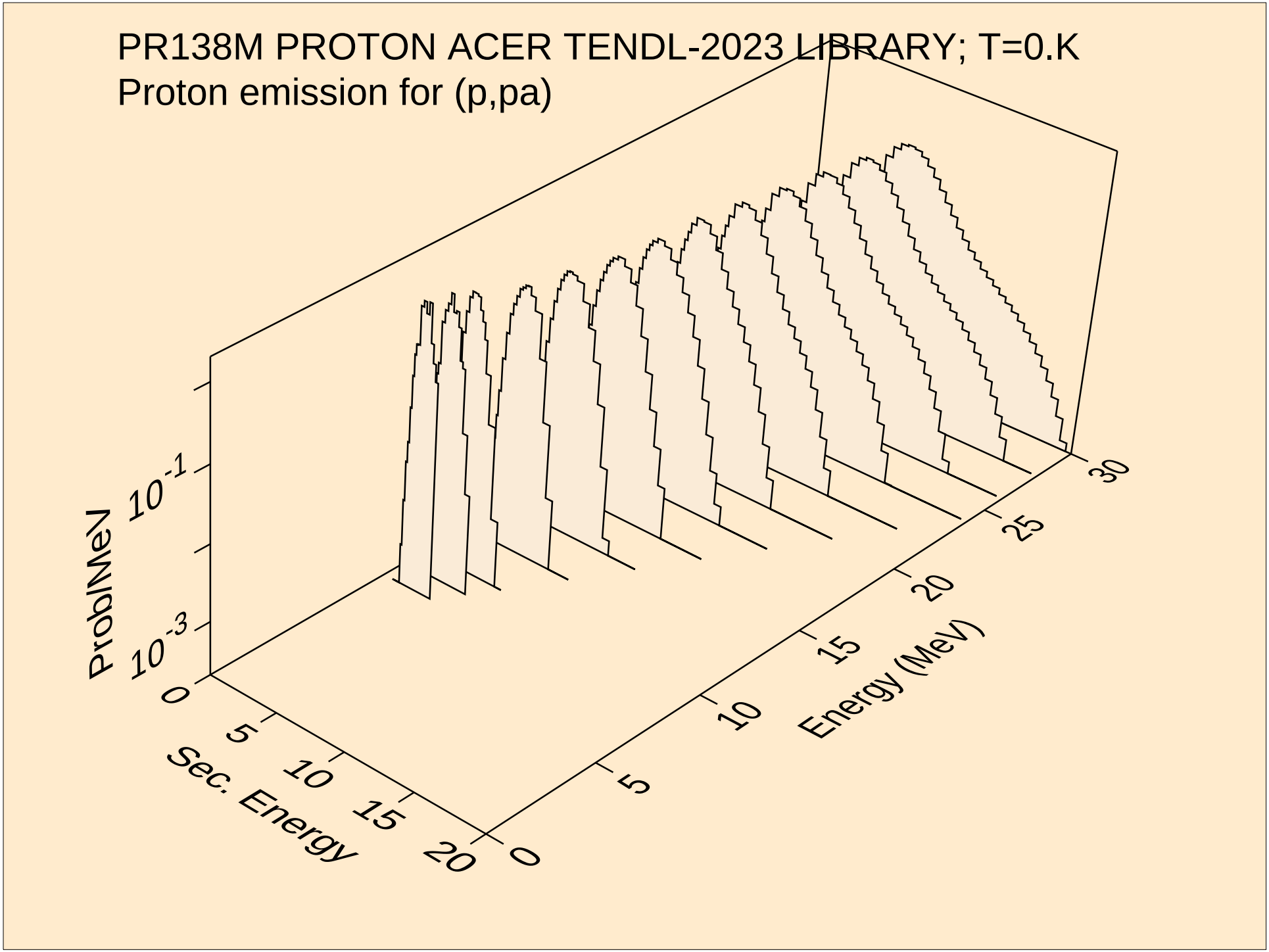

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Proton emission for (p,3np)
Prob/MeV
10-1
10-3
0
Sec. Energy
1
2
3
4
5
26.0
26.5
27.0
27.5
28.0
28.5
29.0
29.5
30.0
Energy (MeV)

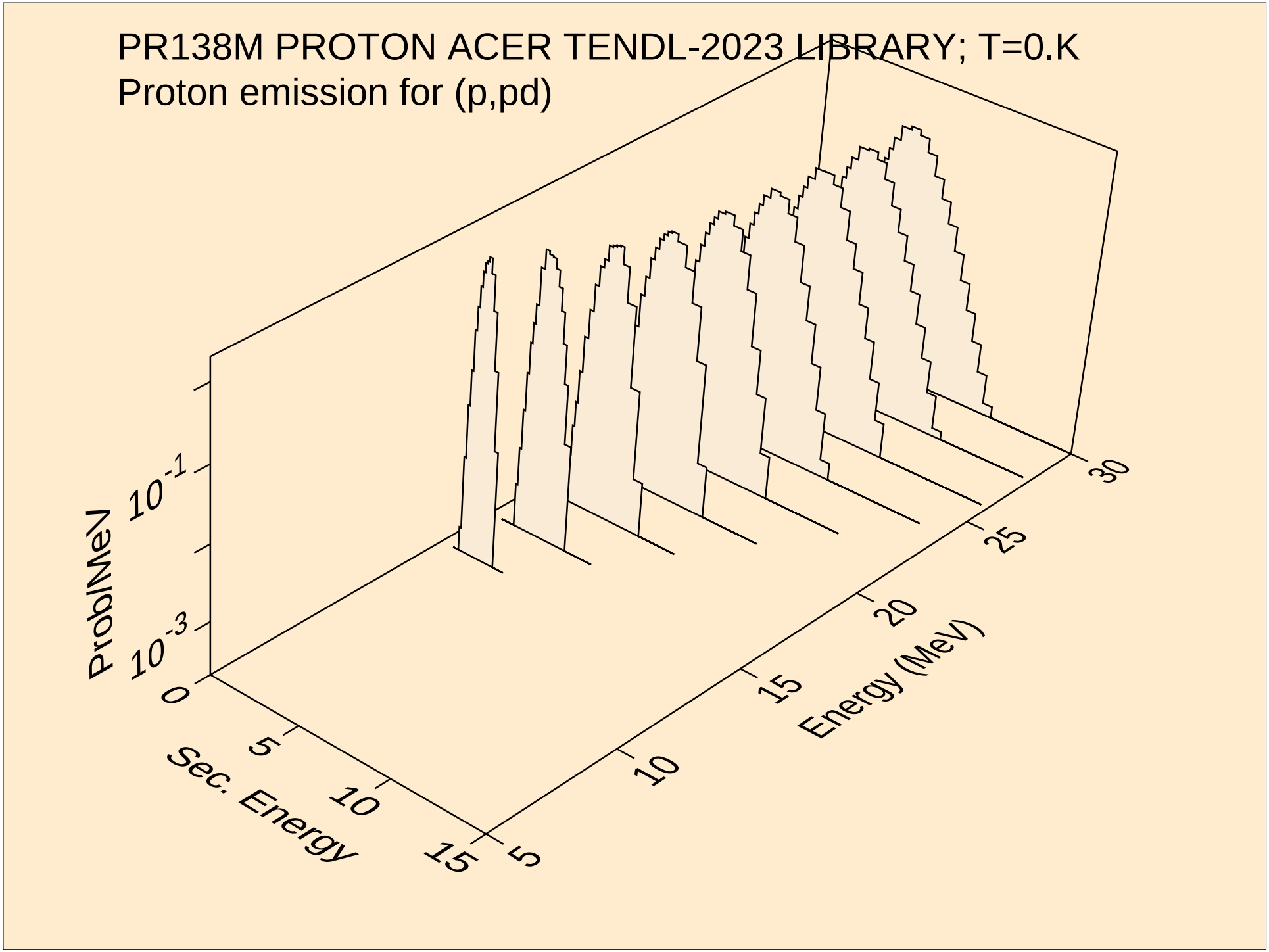

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Proton emission for (p,n2p)
Prob/MeV
10-1
10-3
0
5
10
15
20
Sec. Energy
10
12
14
16
18
20
22
24
26
28
30
Energy (MeV)

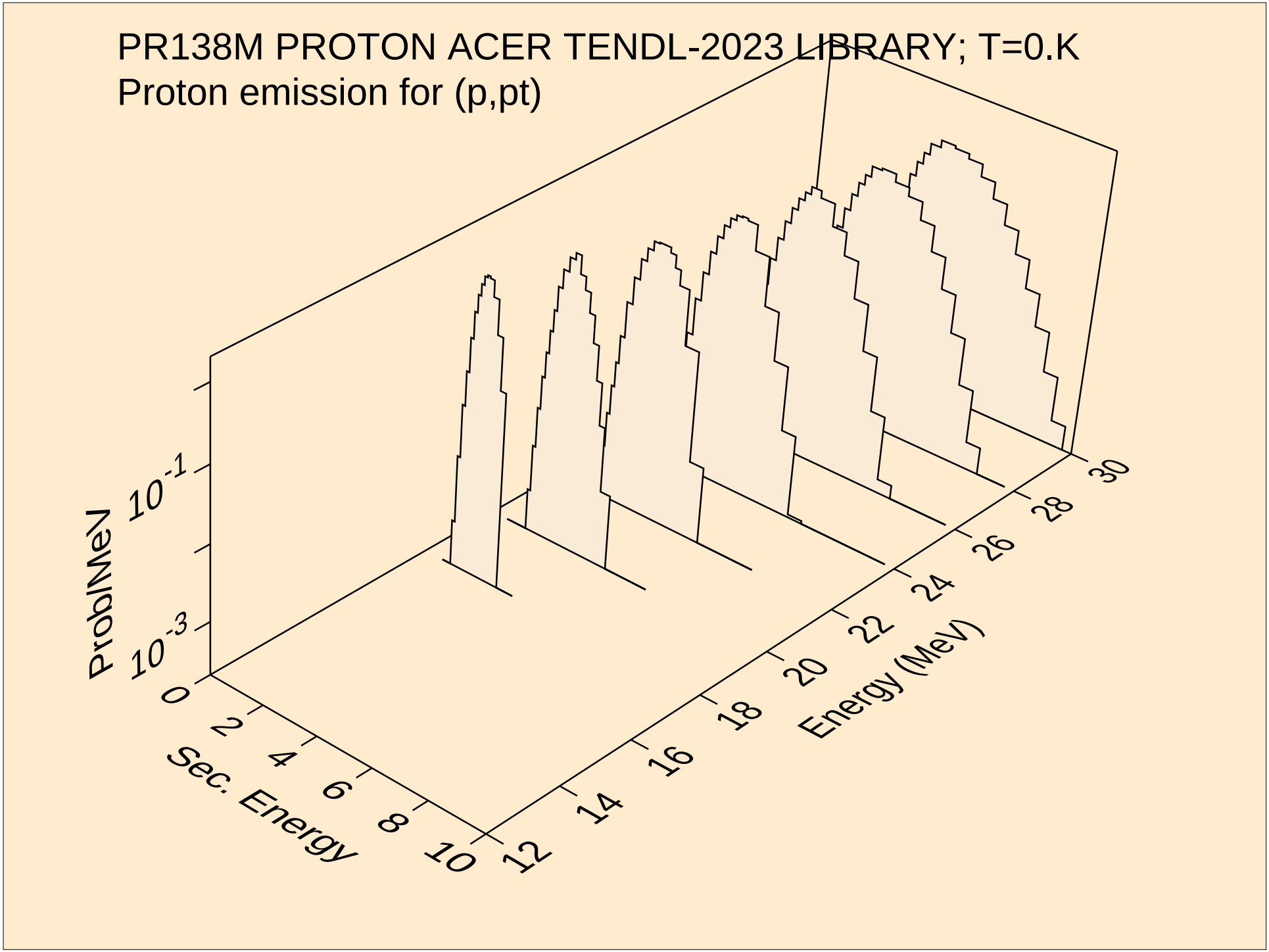

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Proton emission for (p,npa)
Prob/MeV
10-1
10-3
0
Sec. Energy
5
10
15
Energy (MeV)
5
10
15
20
25
30

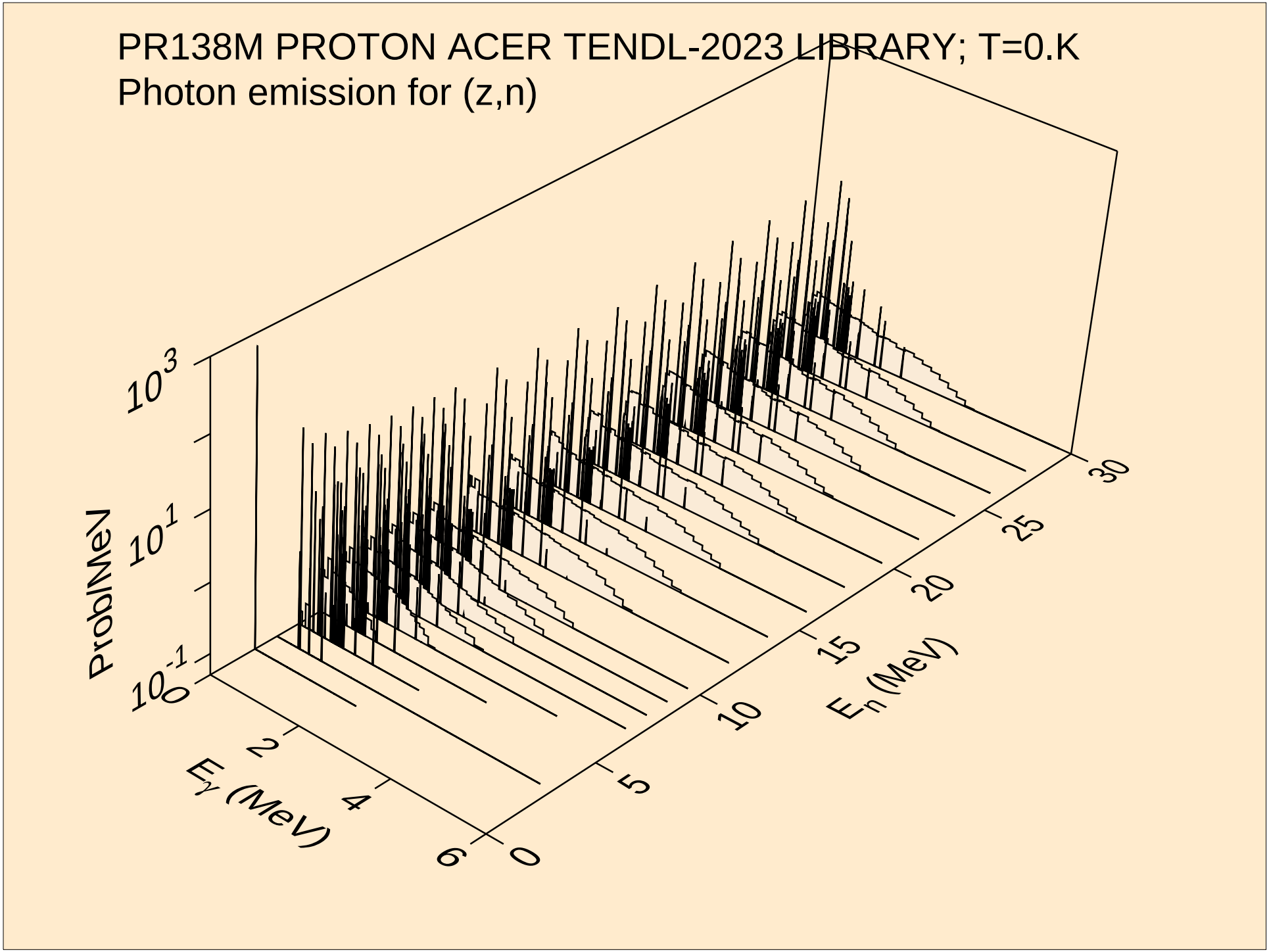

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Proton emission for inelastic
Prob/MeV
10-1
10-3
0
10
20
30
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)

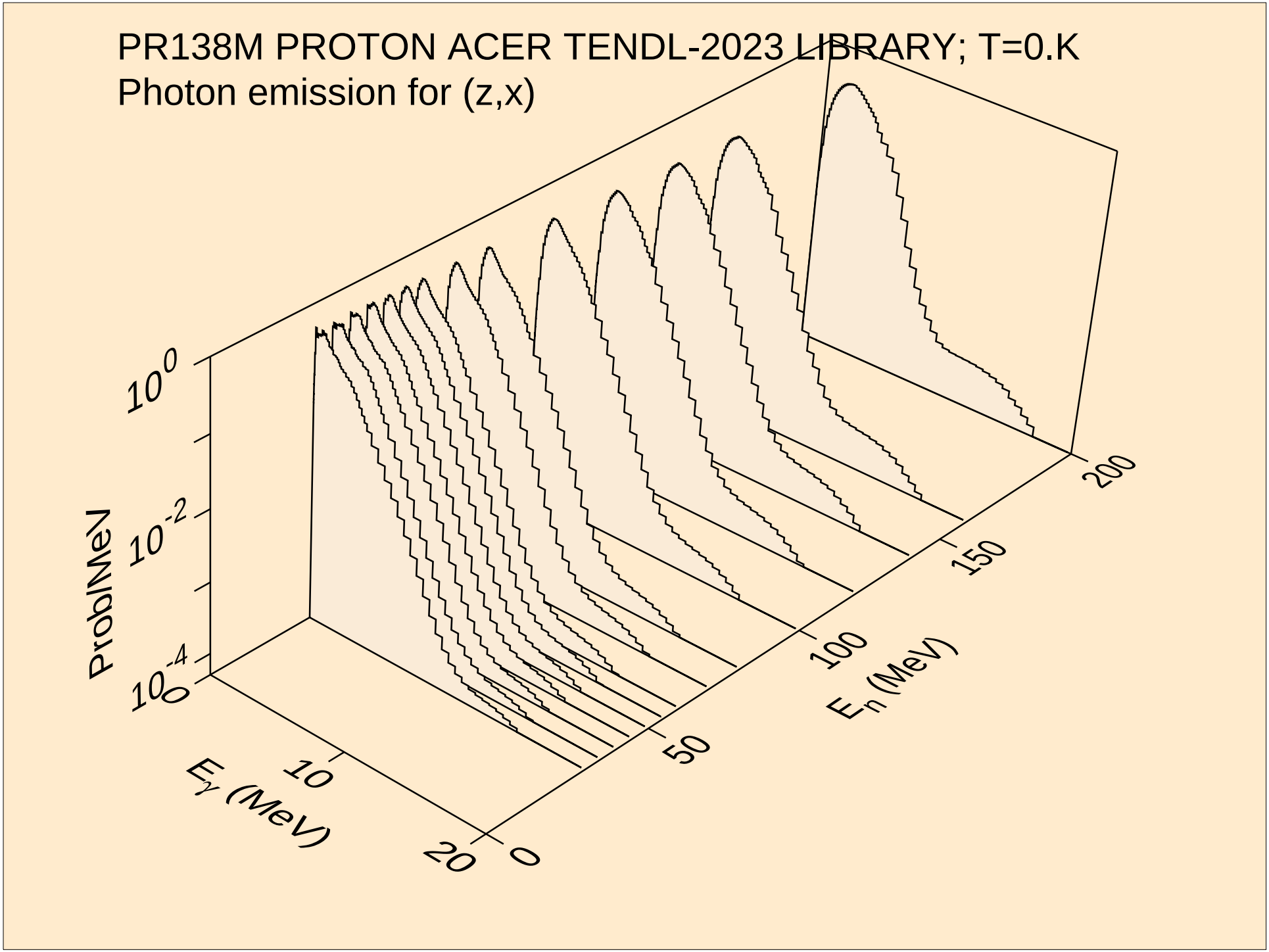

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Proton emission for (p,2p)
Prob/MeV
10-1
10-3
0
10
20
30
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)

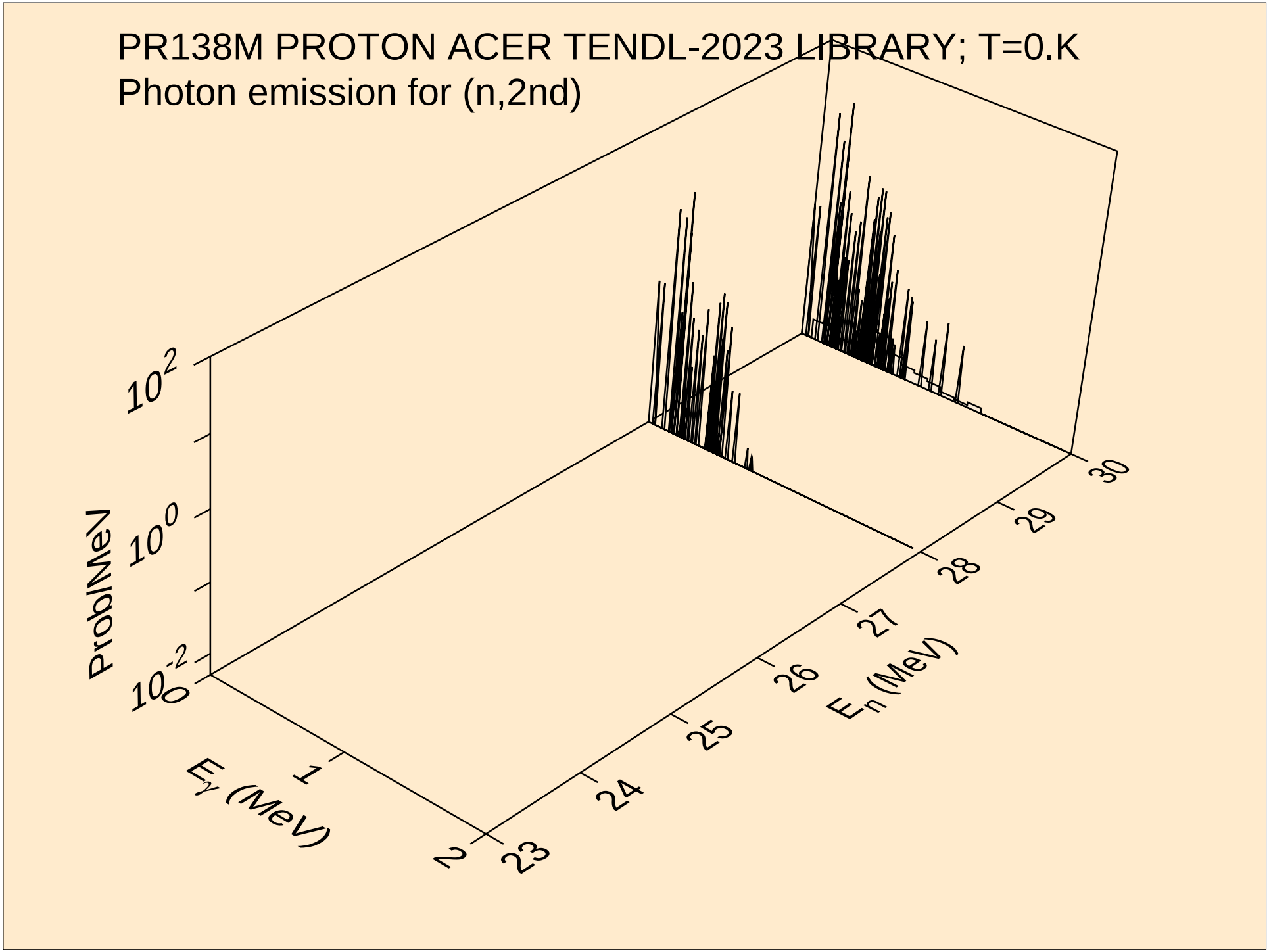

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Proton emission for (p,pa)
Prob/MeV
10-1
10-3
0
5
10
15
20
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)

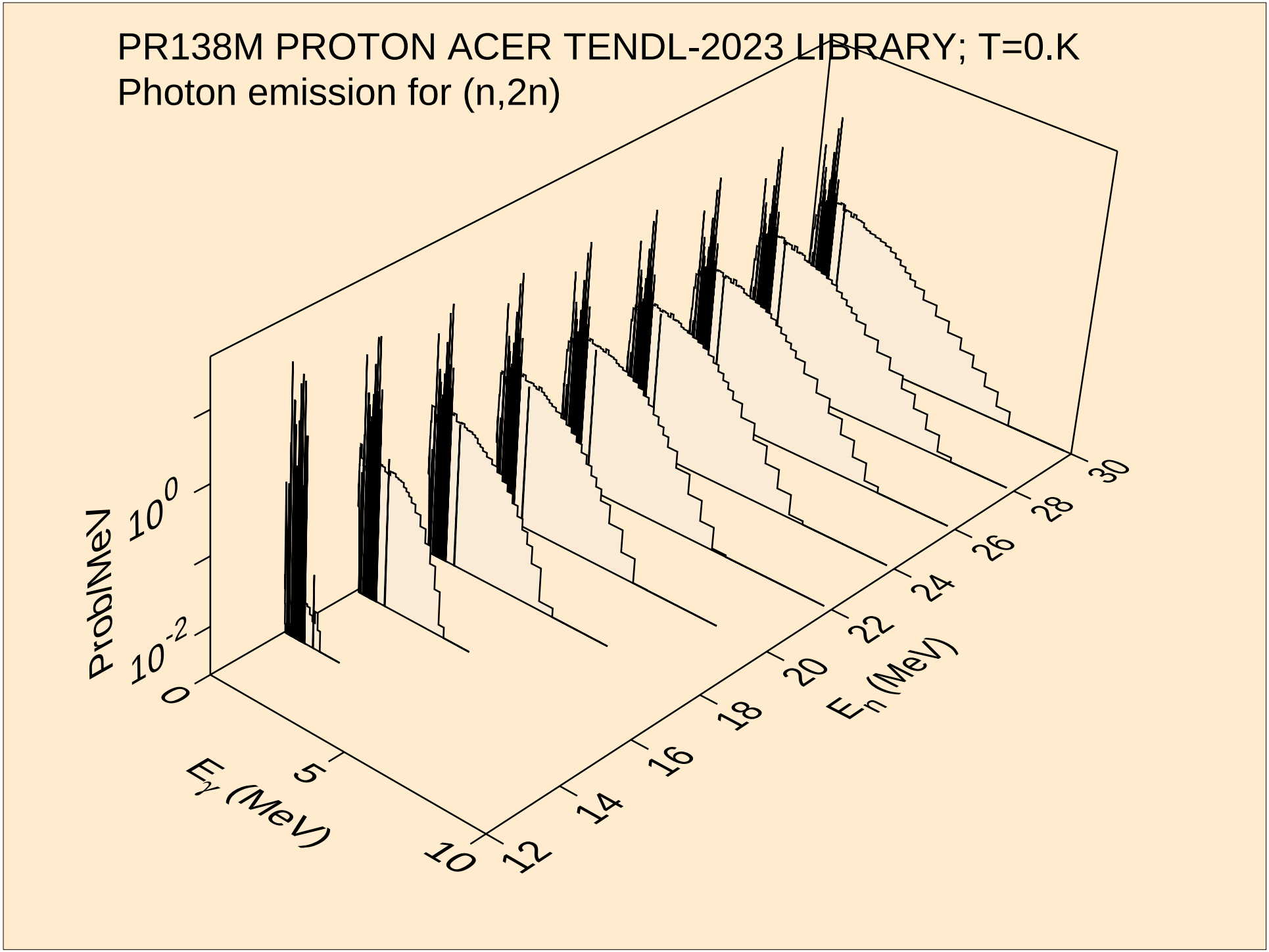

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Proton emission for (p,pd)
Prob/MeV
10-1
10-3
0
5
10
15
Sec. Energy
5
10
15
20
25
30
Energy (MeV)

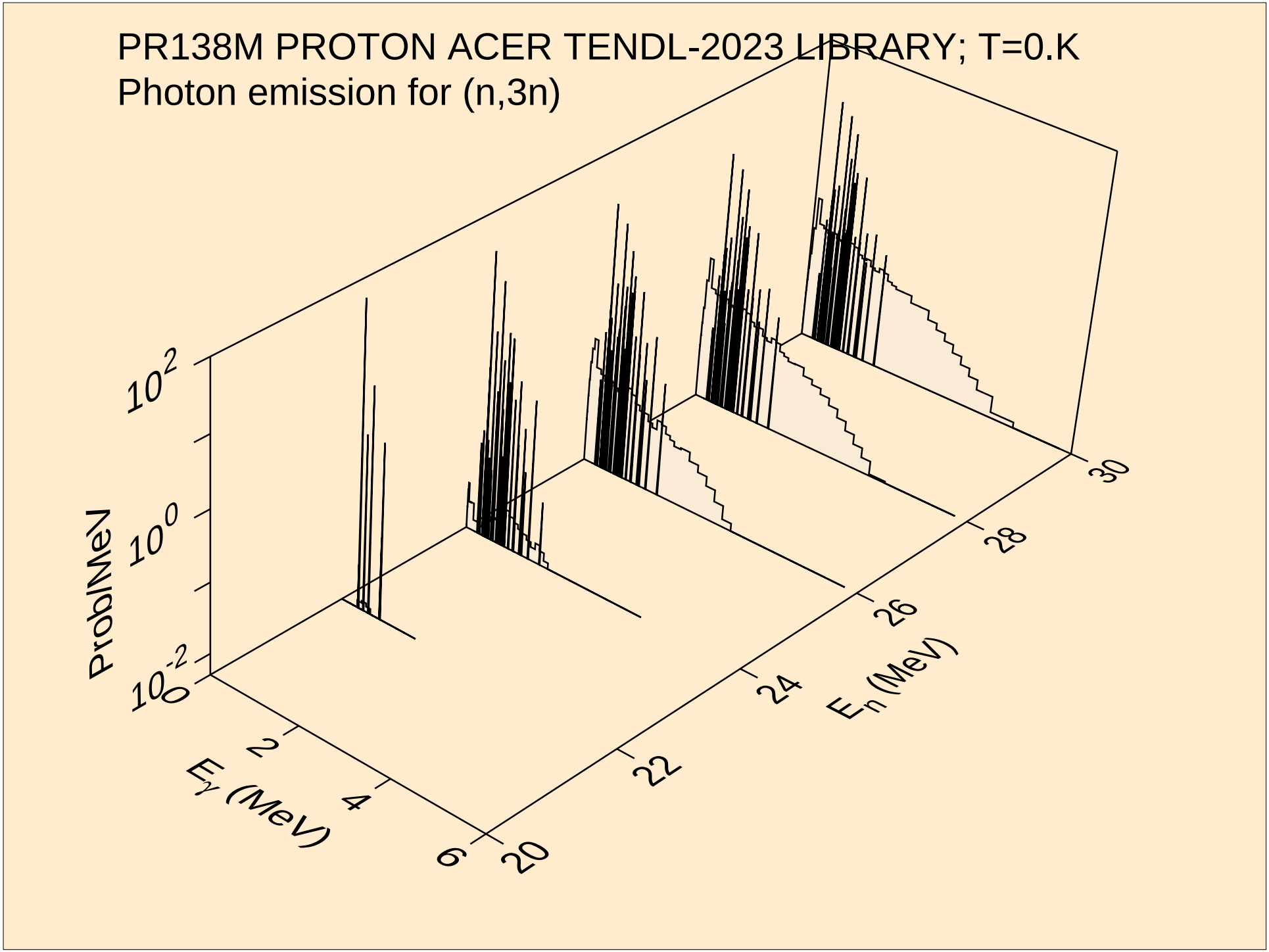

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Proton emission for (p,pt)
Prob/MeV
10-1
10-3
0
2
4
6
8
10
12
Sec. Energy
14
16
18
20
22
24
26
28
30
Energy (MeV)

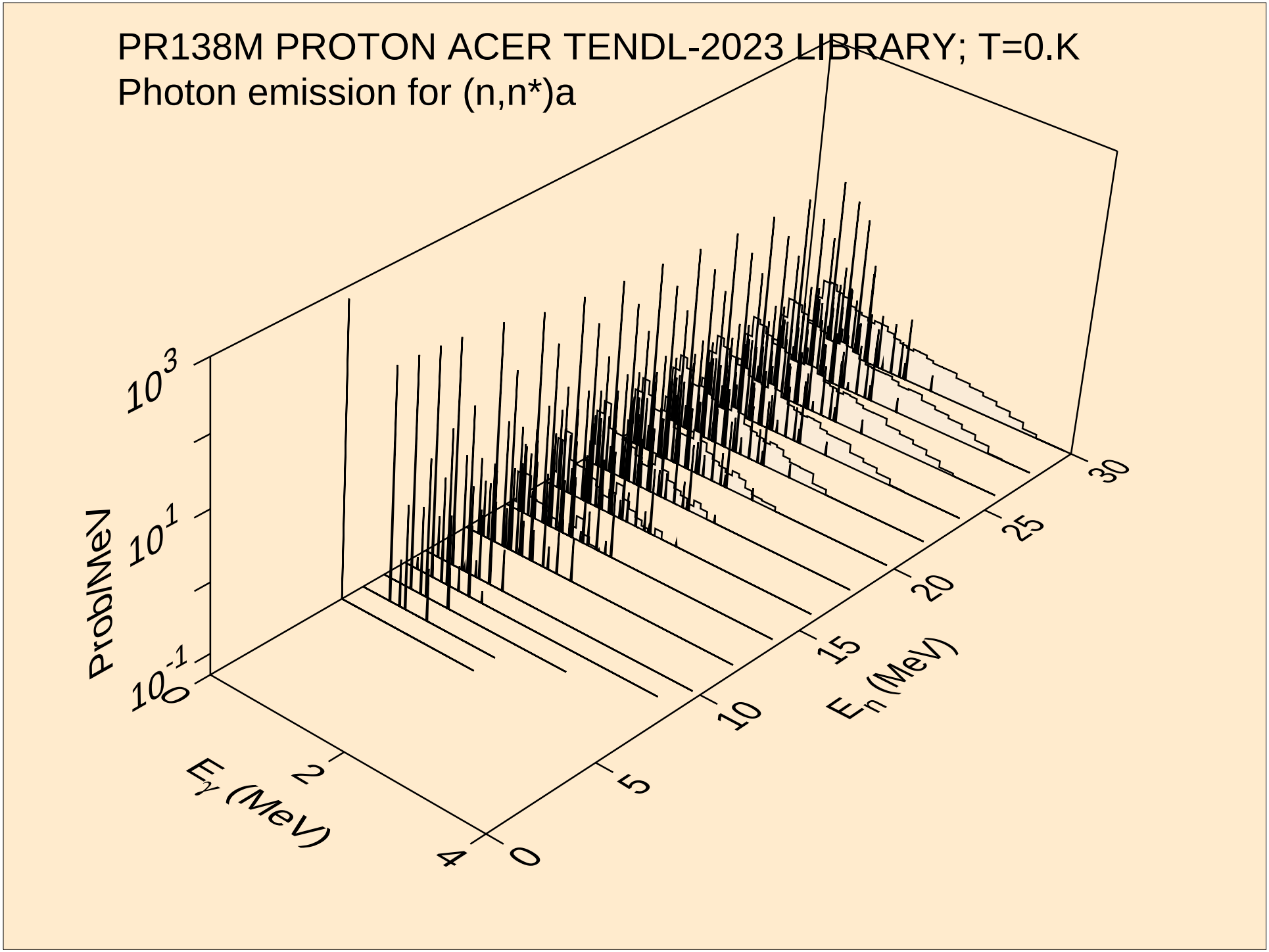

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (z,n)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
6
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

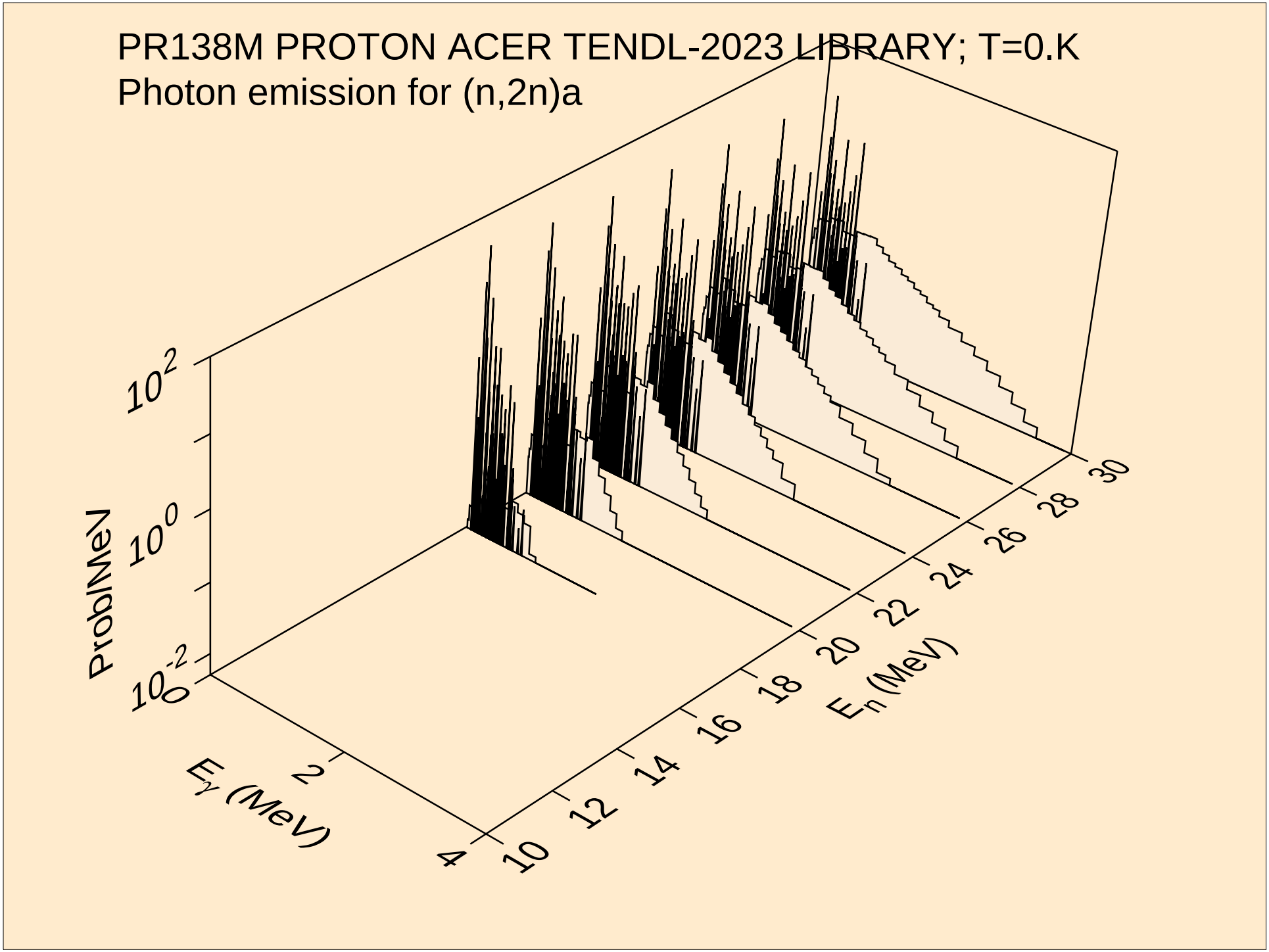

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (z,x)
Prob/MeV
10^{0}
10^{-2}
10^{-4}
0
10
20
E_γ (MeV)
0
50
100
150
200
E_n (MeV)

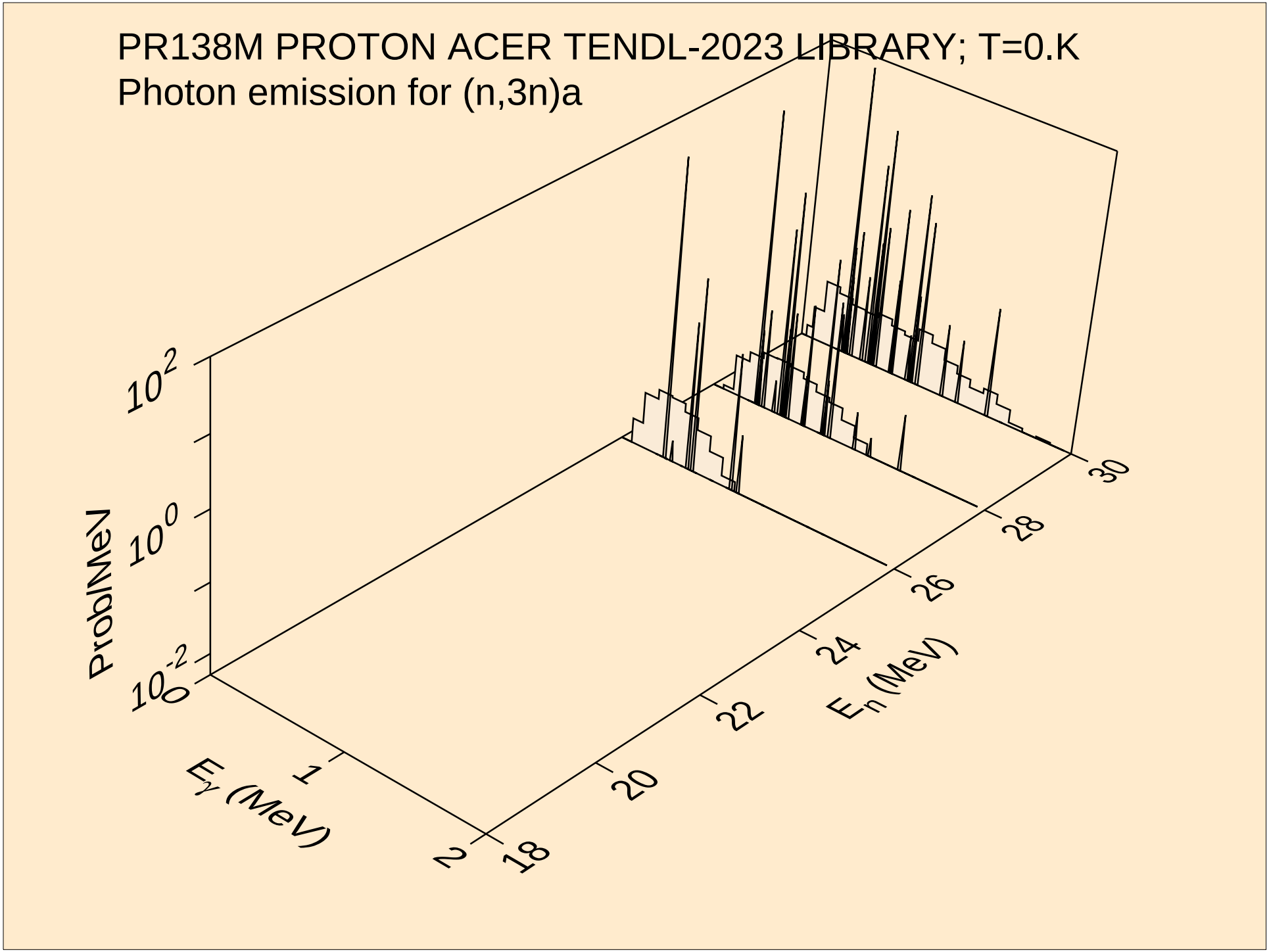

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2nd)
Prob/MeV
10^{2}
10^{0}
10^{-2}
E_γ (MeV)
0
1
2
E_n (MeV)
23
24
25
26
27
28
29
30

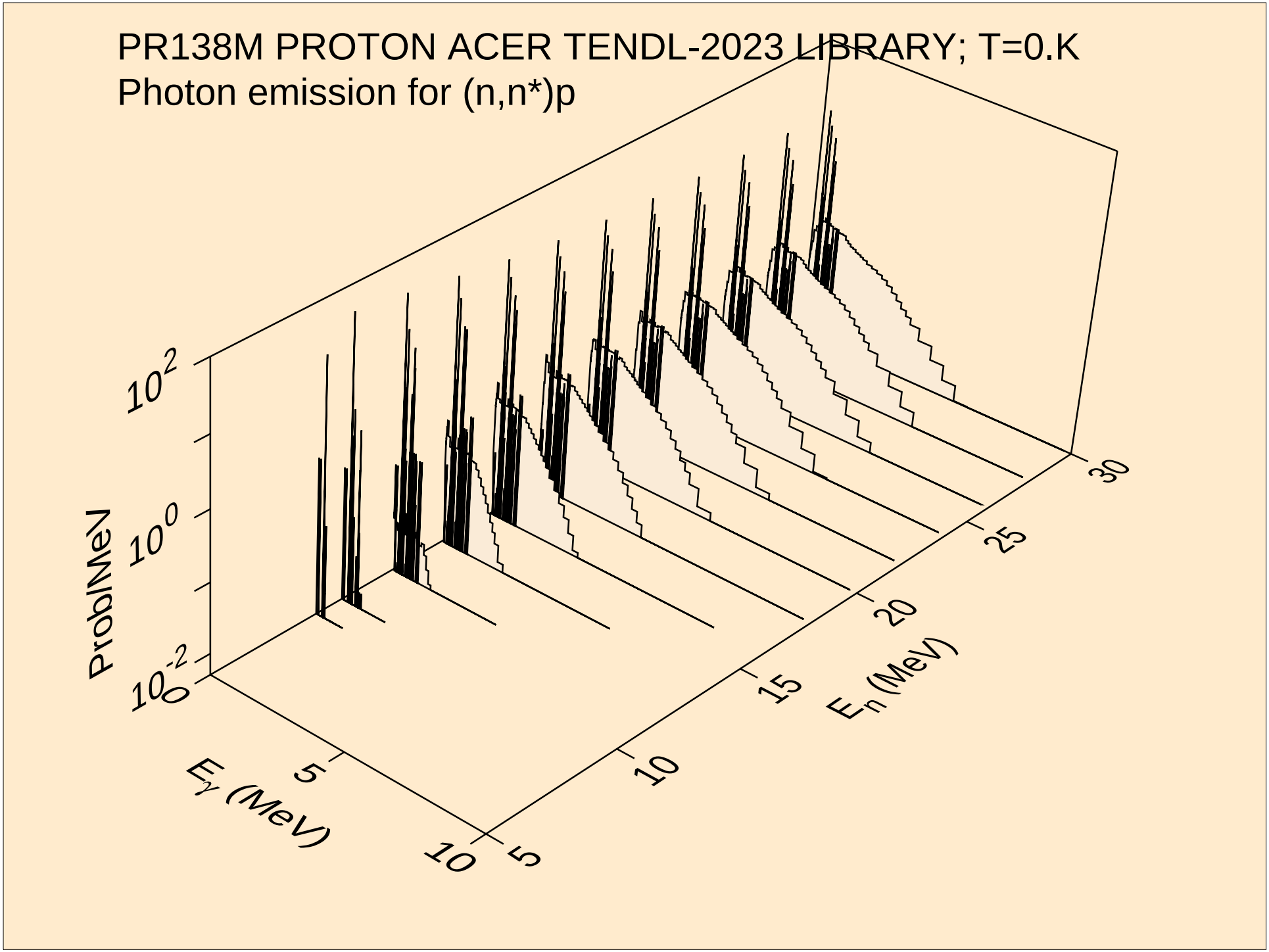

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2n)
Prob/MeV
10^0
10^-2
0
5
10
E_γ (MeV)
12
14
16
18
20
22
24
26
28
30
E_n (MeV)

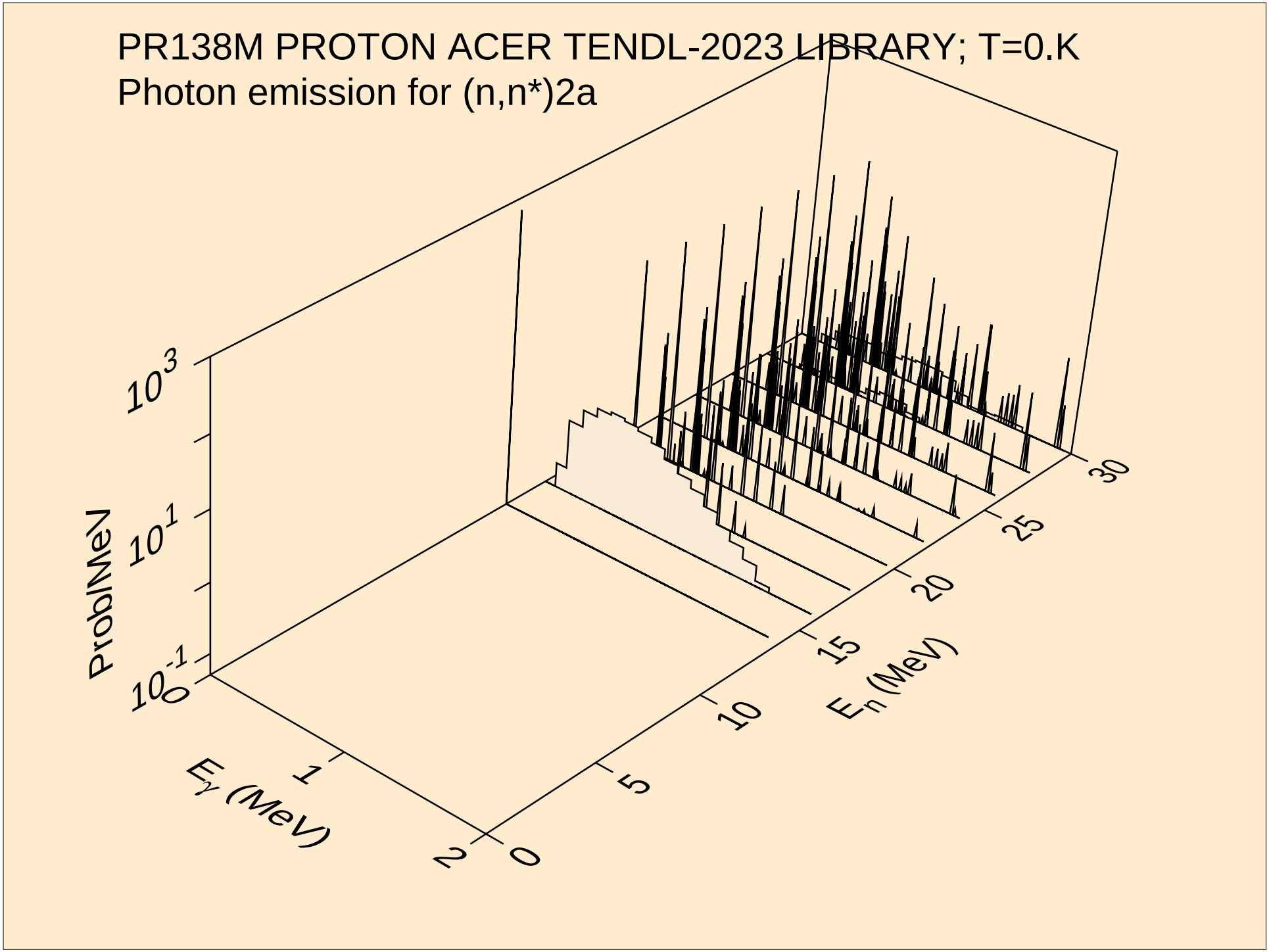

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,3n)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
2
4
6
E_γ (MeV)
20
22
24
26
28
30
E_n (MeV)

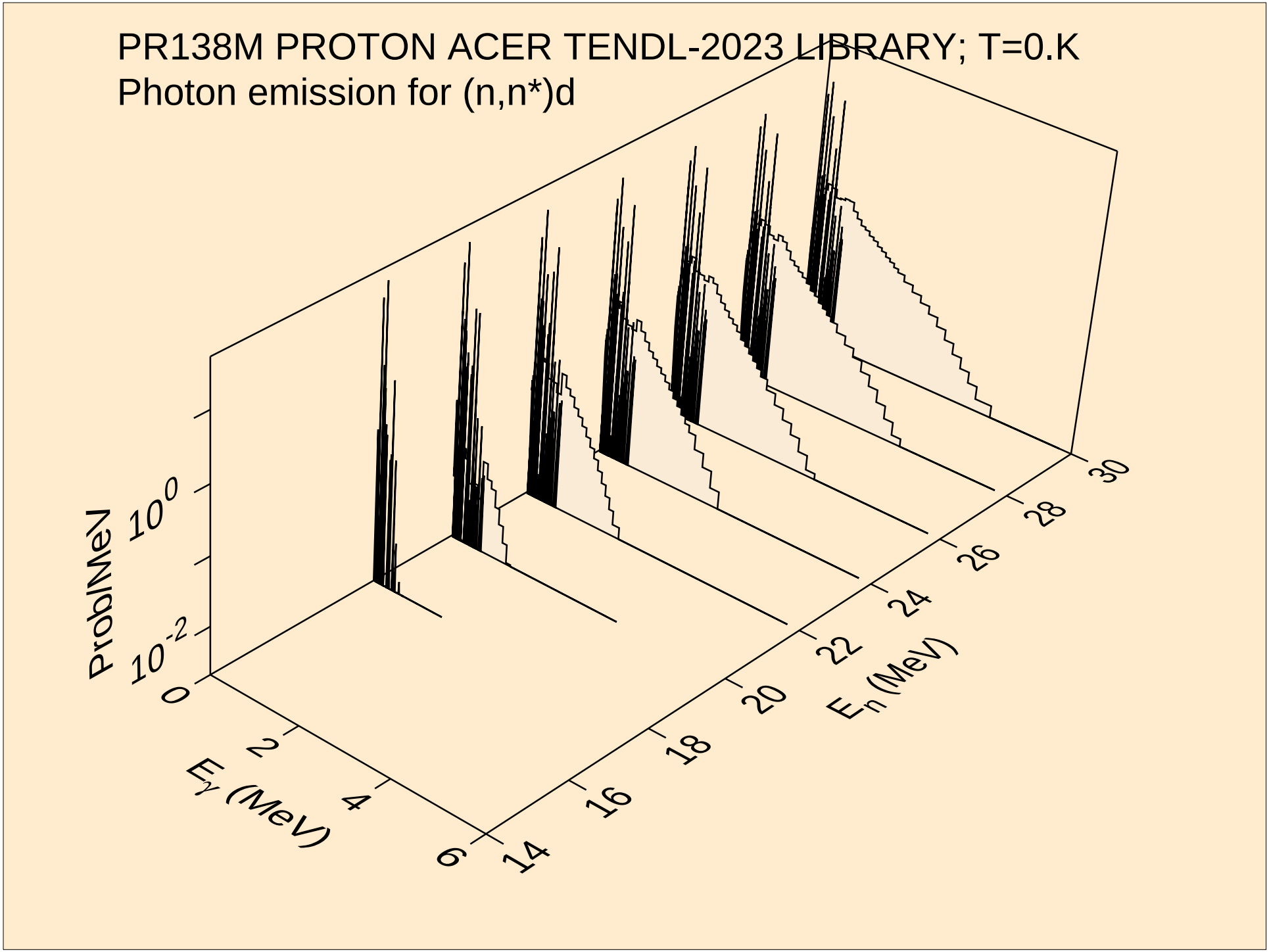

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)a
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

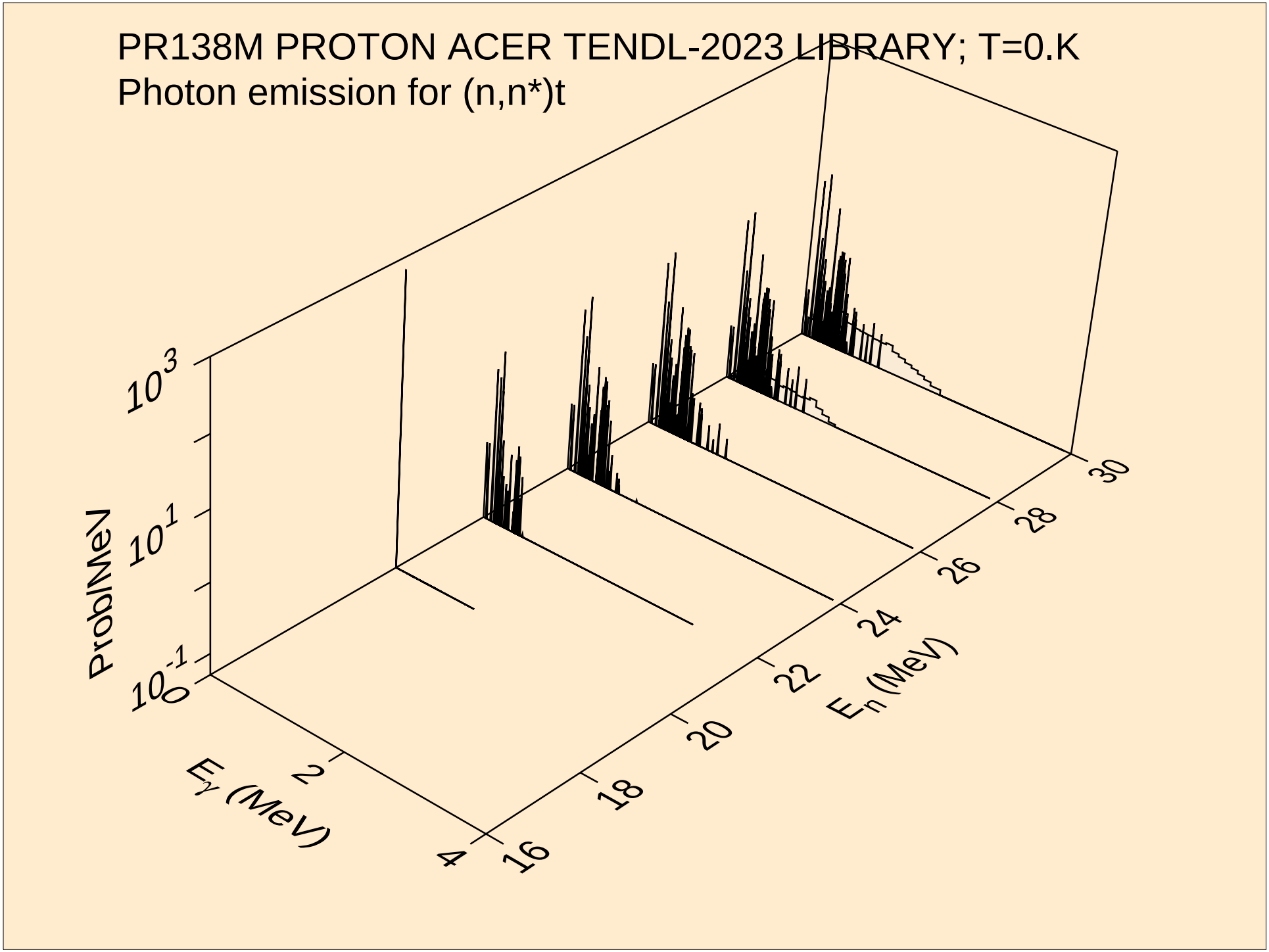

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2n)a
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
2
4
E_γ (MeV)
10
12
14
16
18
20
22
24
26
28
30
E_n (MeV)

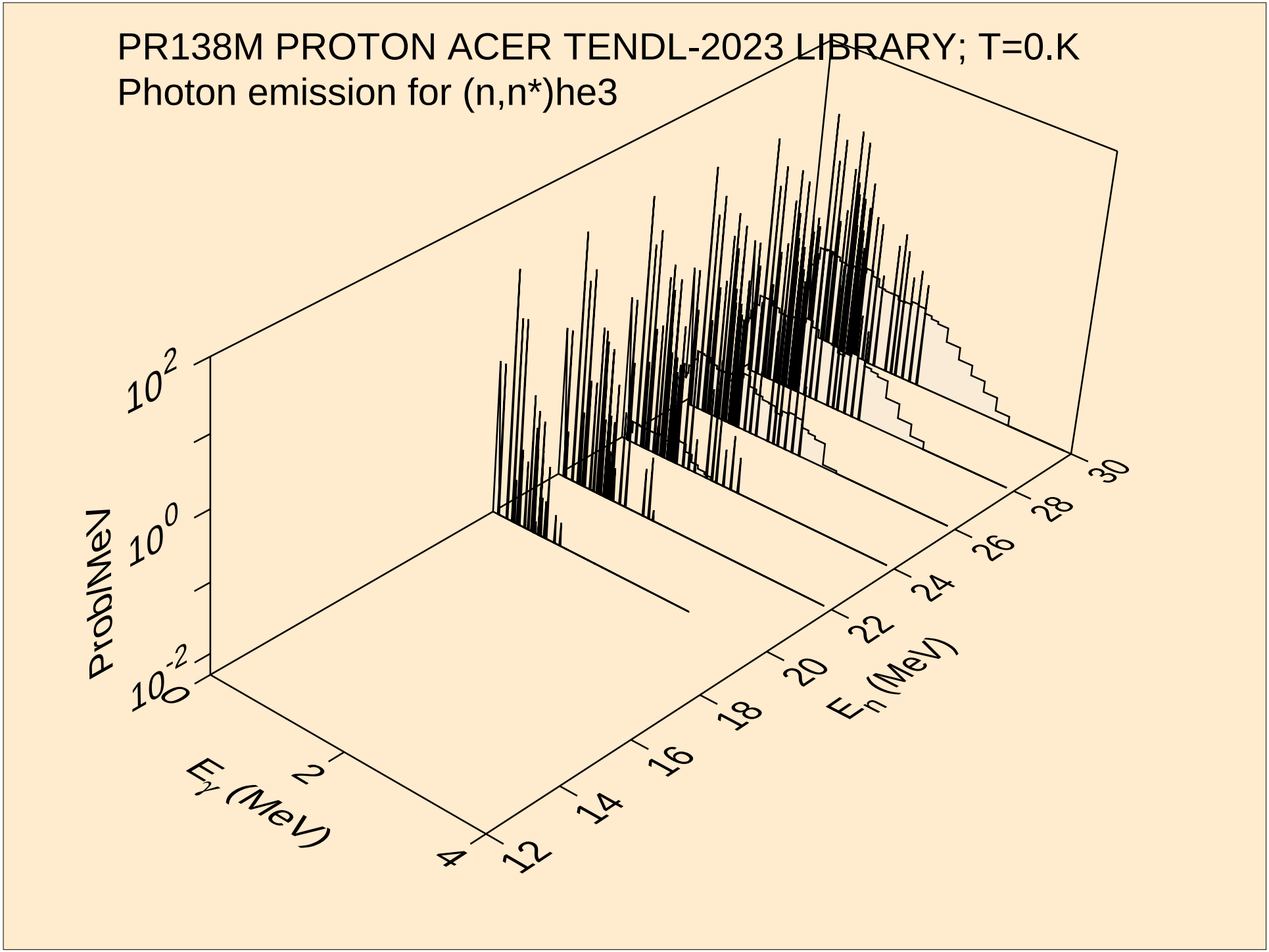

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,3n)a
Prob/MeV
10^{2}
10^{0}
10^{-2}
E_γ (MeV)
1
2
E_n (MeV)
18
20
22
24
26
28
30

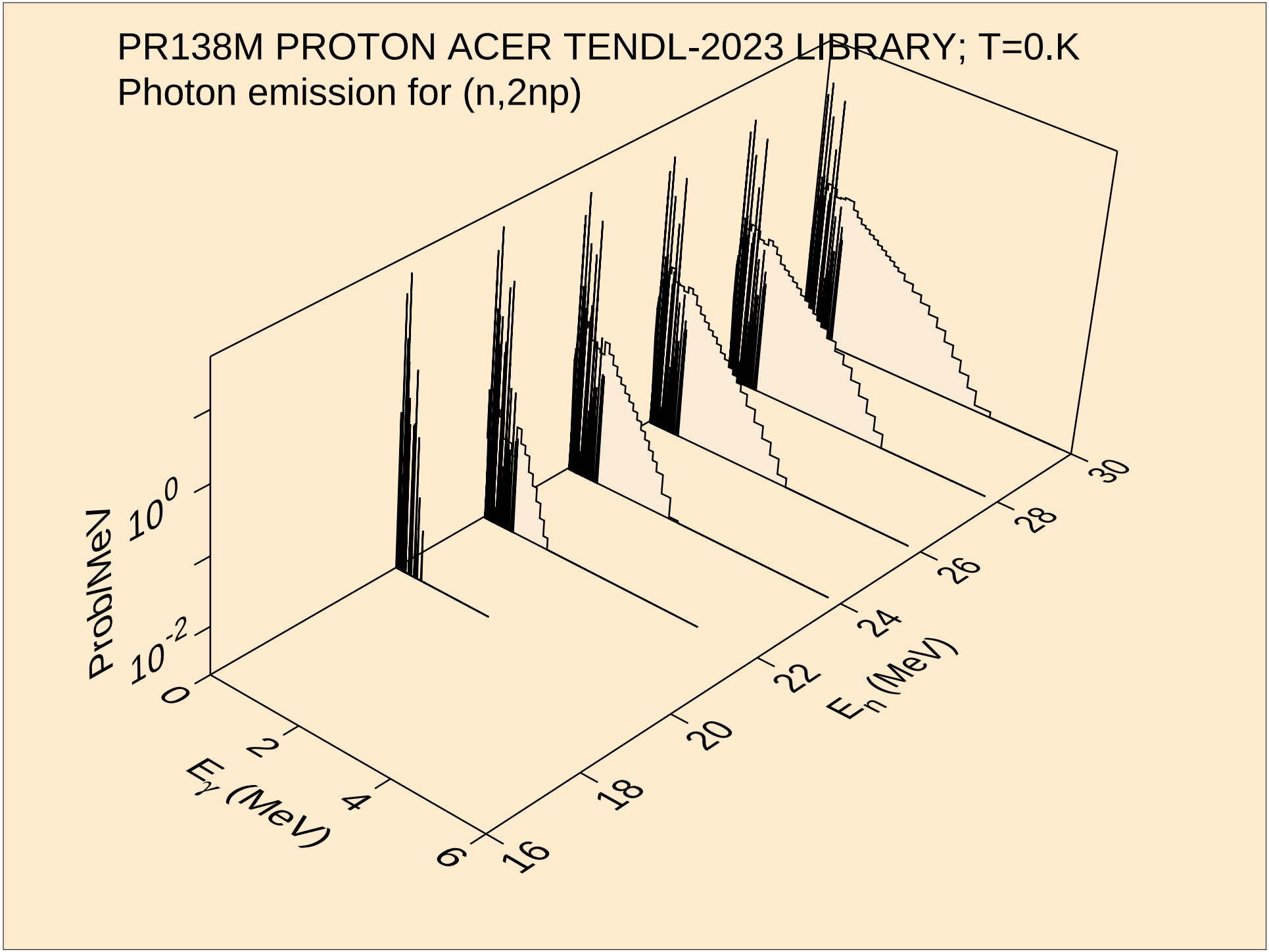

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)p
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
5
10
15
20
25
30
E_n (MeV)

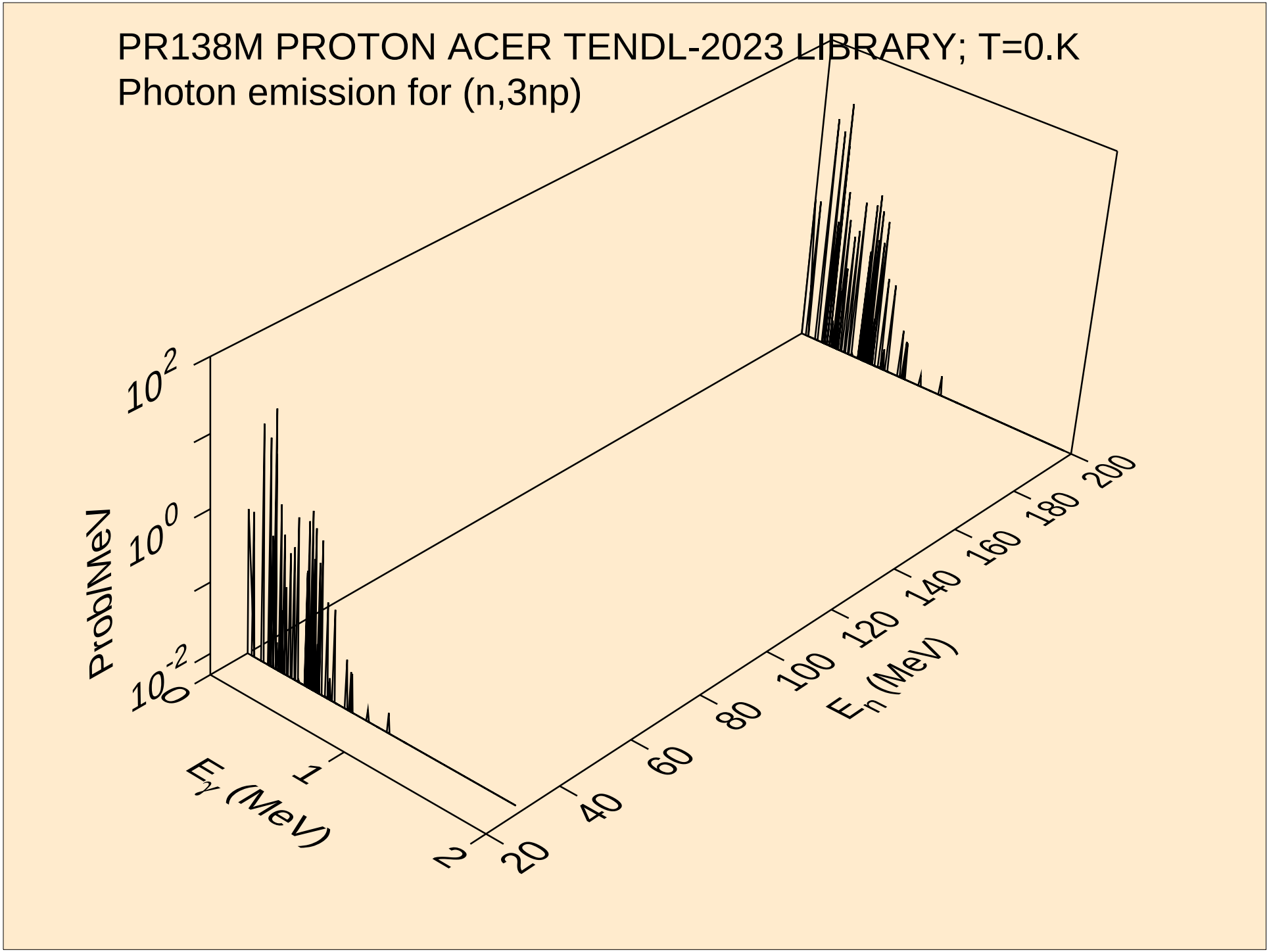

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)2a
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
1
2
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

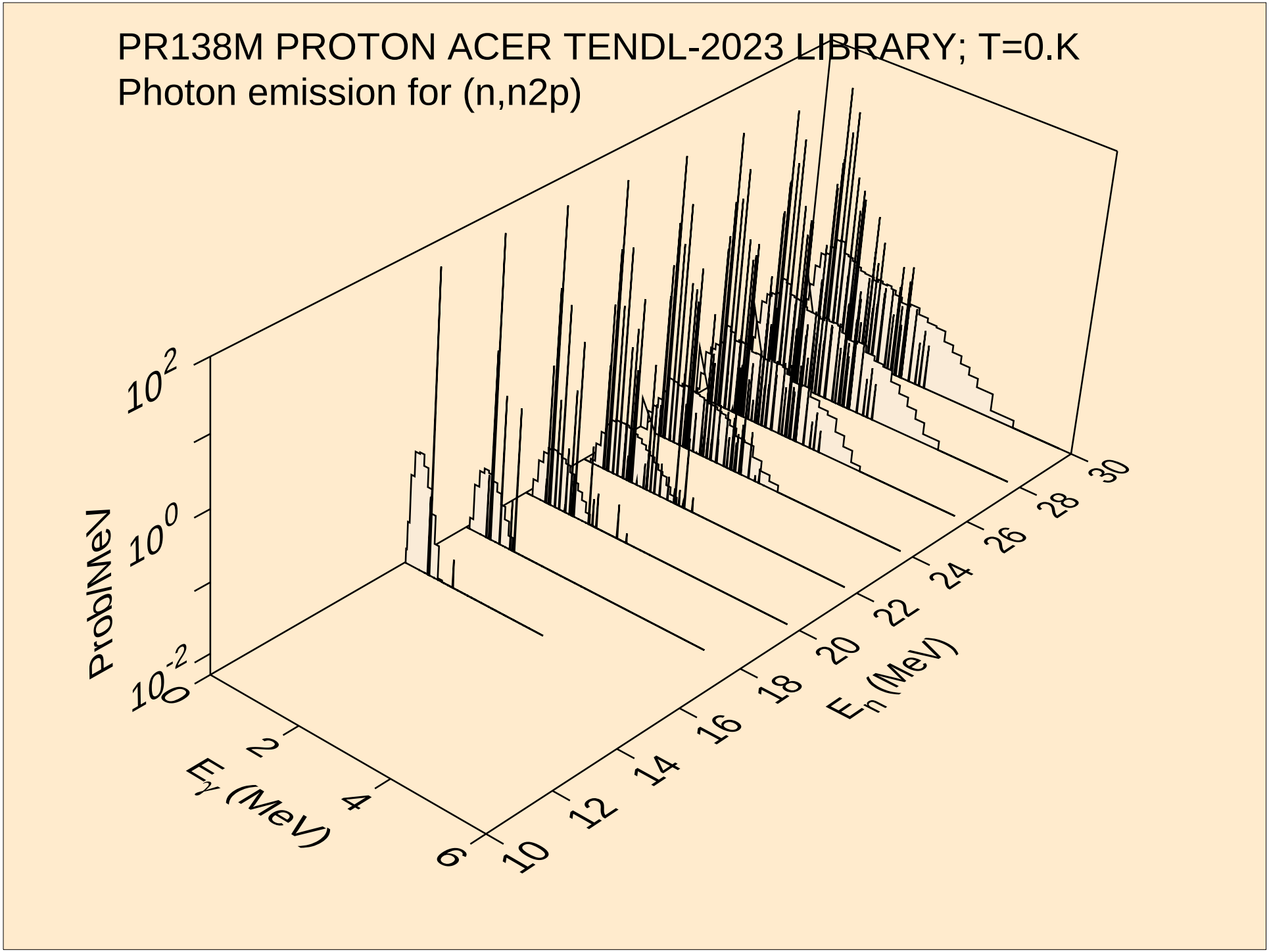

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)d
Prob/MeV
10^0
10^-2
0
2
4
6
E_γ (MeV)
14
16
18
20
22
24
26
28
30
E_n (MeV)

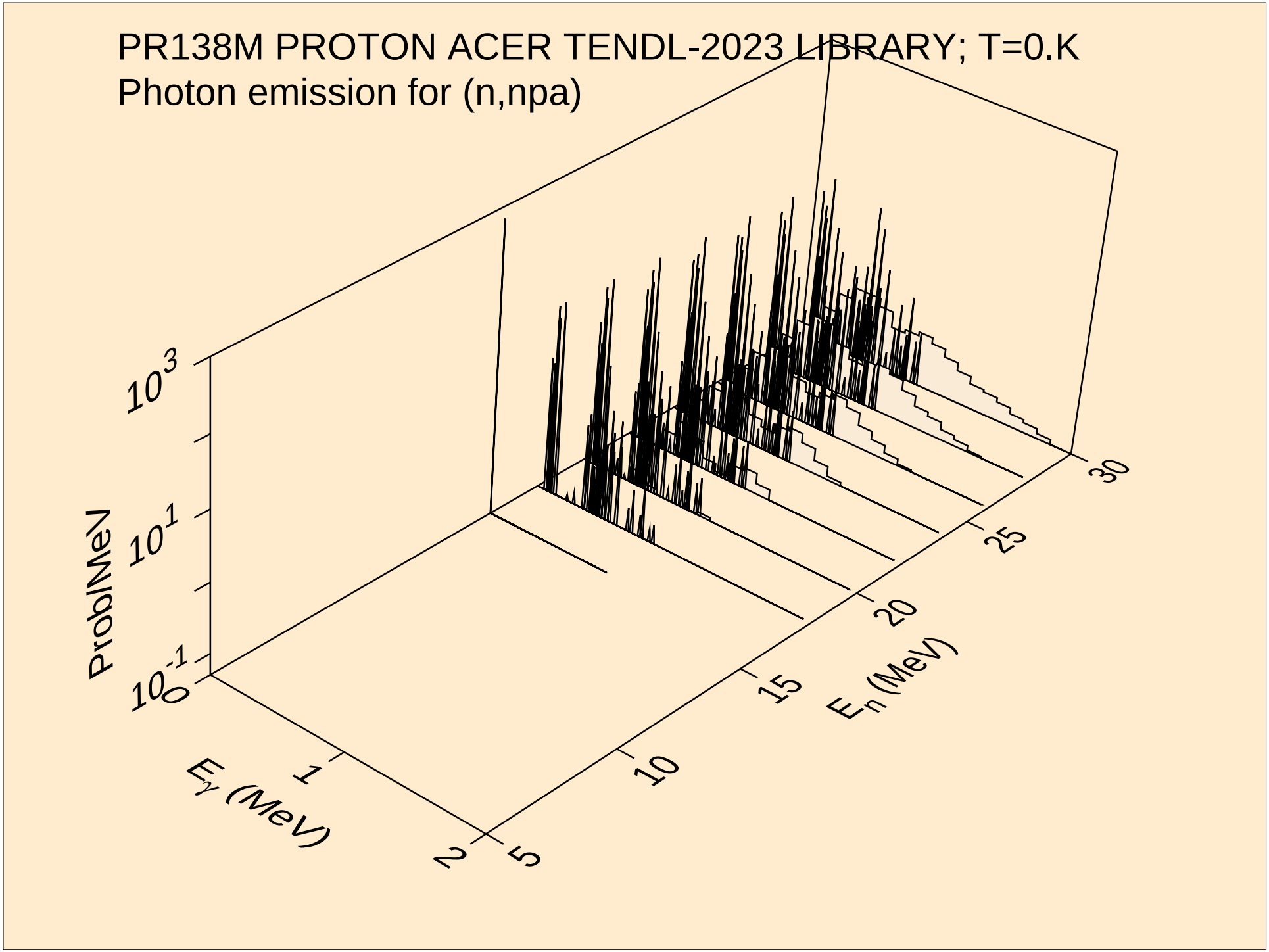

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)t
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
E_γ (MeV)
16
18
20
22
24
26
28
30
E_n (MeV)

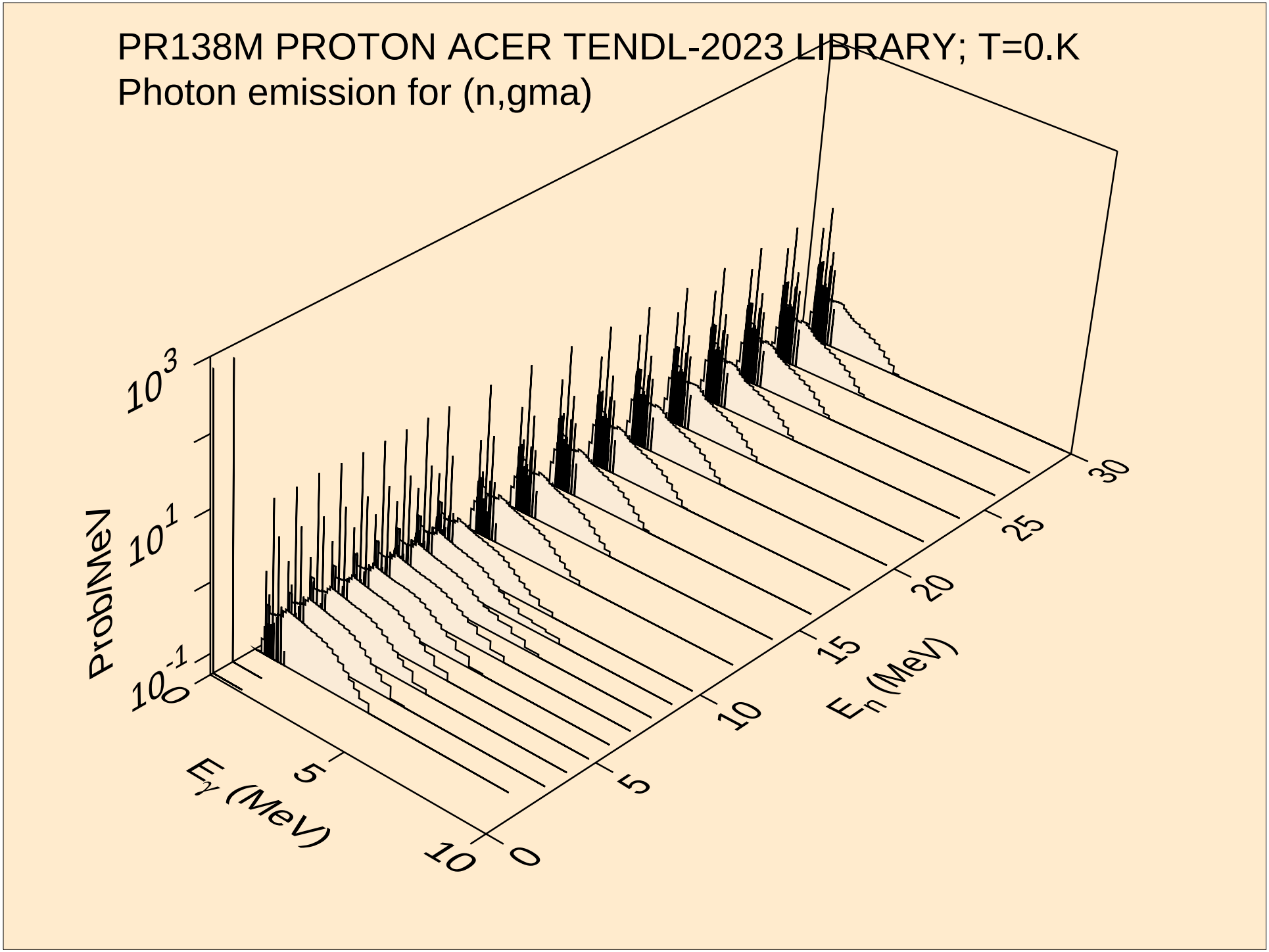

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)he3
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
2
4
E_γ (MeV)
12
14
16
18
20
22
24
26
28
30
E_n (MeV)

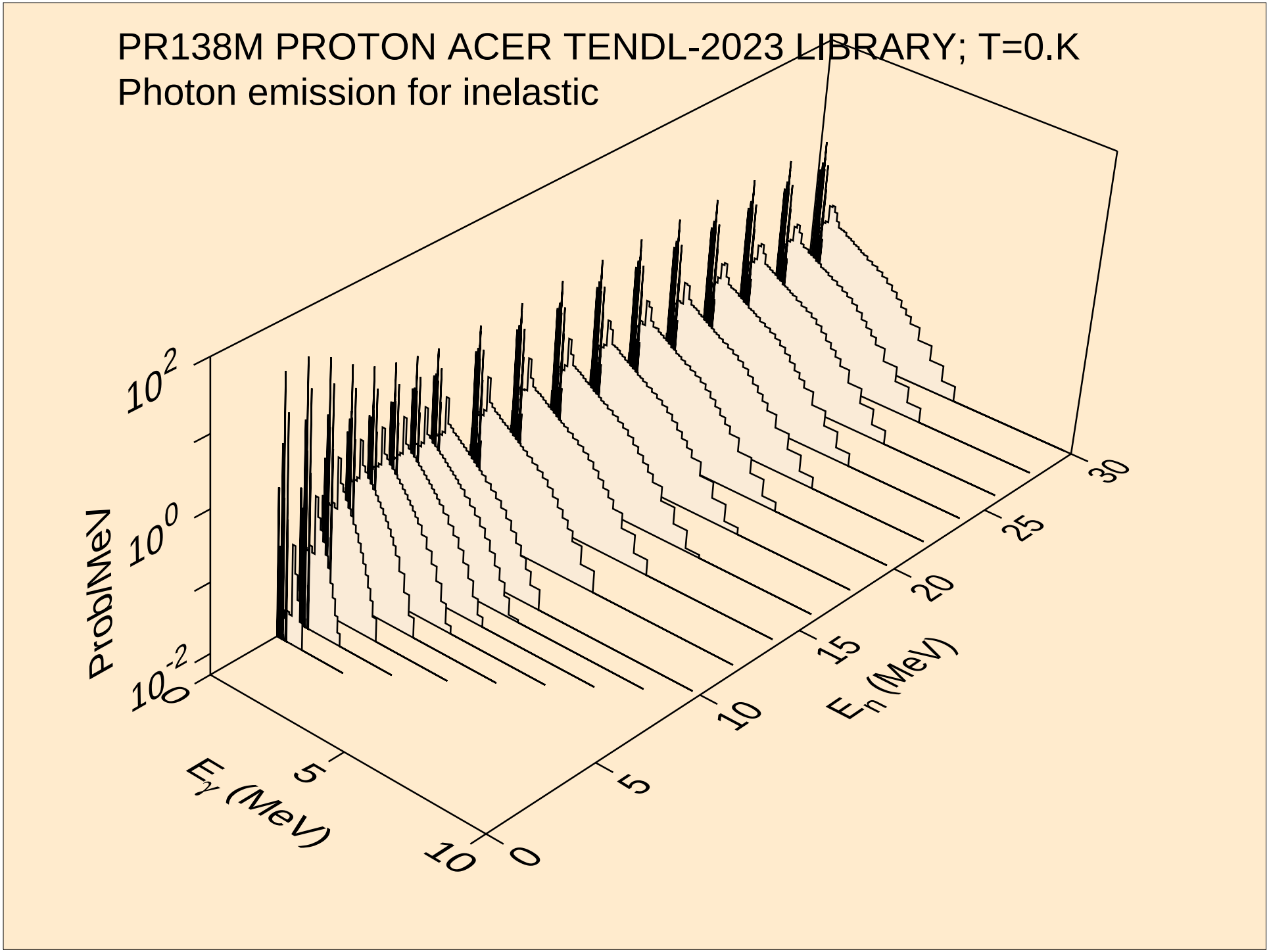

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2np)
Prob/MeV
10^{0}
10^{-2}
0
2
4
6
E_γ (MeV)
16
18
20
22
24
26
28
30
E_n (MeV)

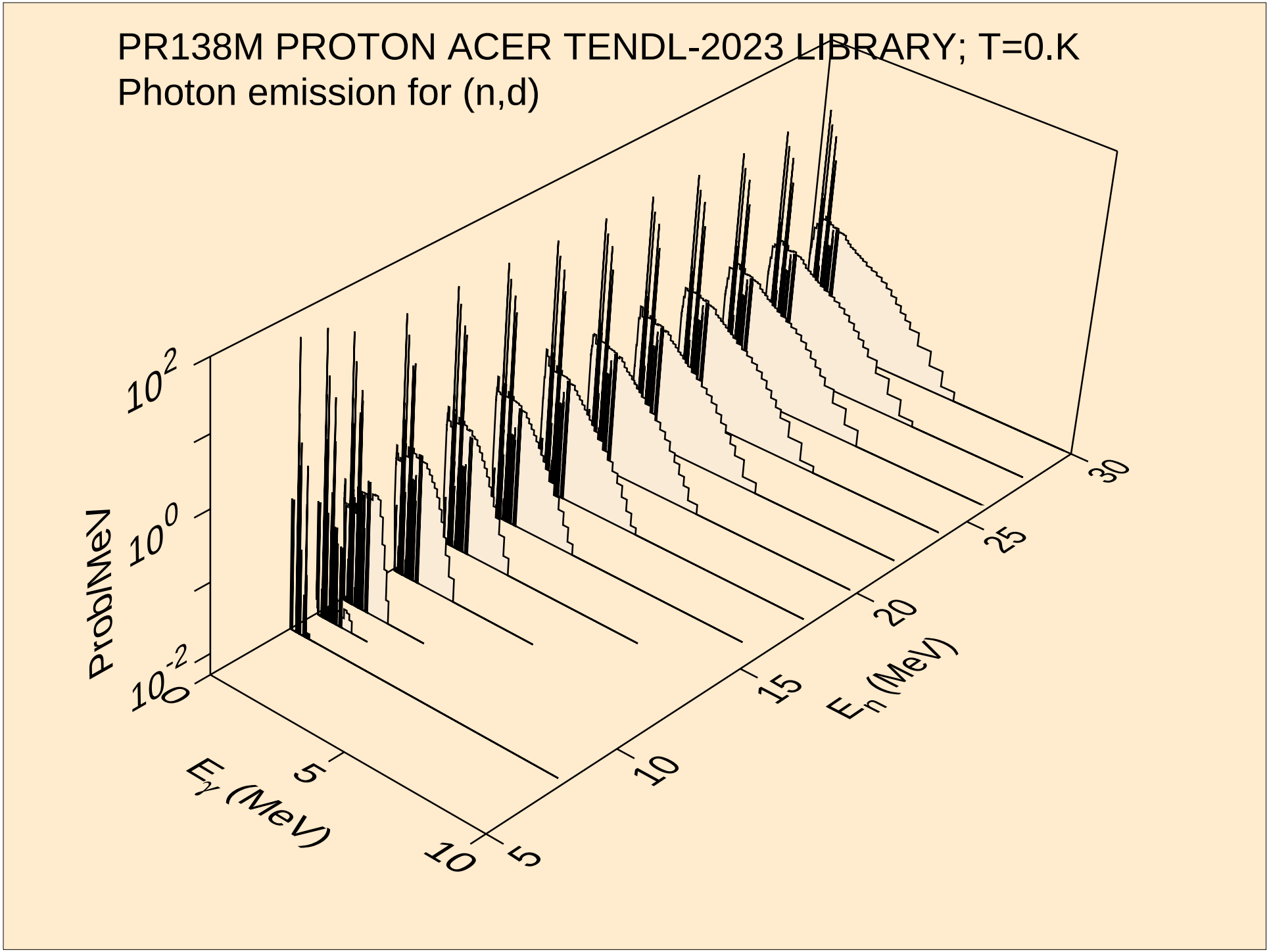

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,3np)
Prob/MeV
10^{2}
10^{0}
10^{-2}
E_γ (MeV)
0
1
2
E_n (MeV)
20
40
60
80
100
120
140
160
180
200

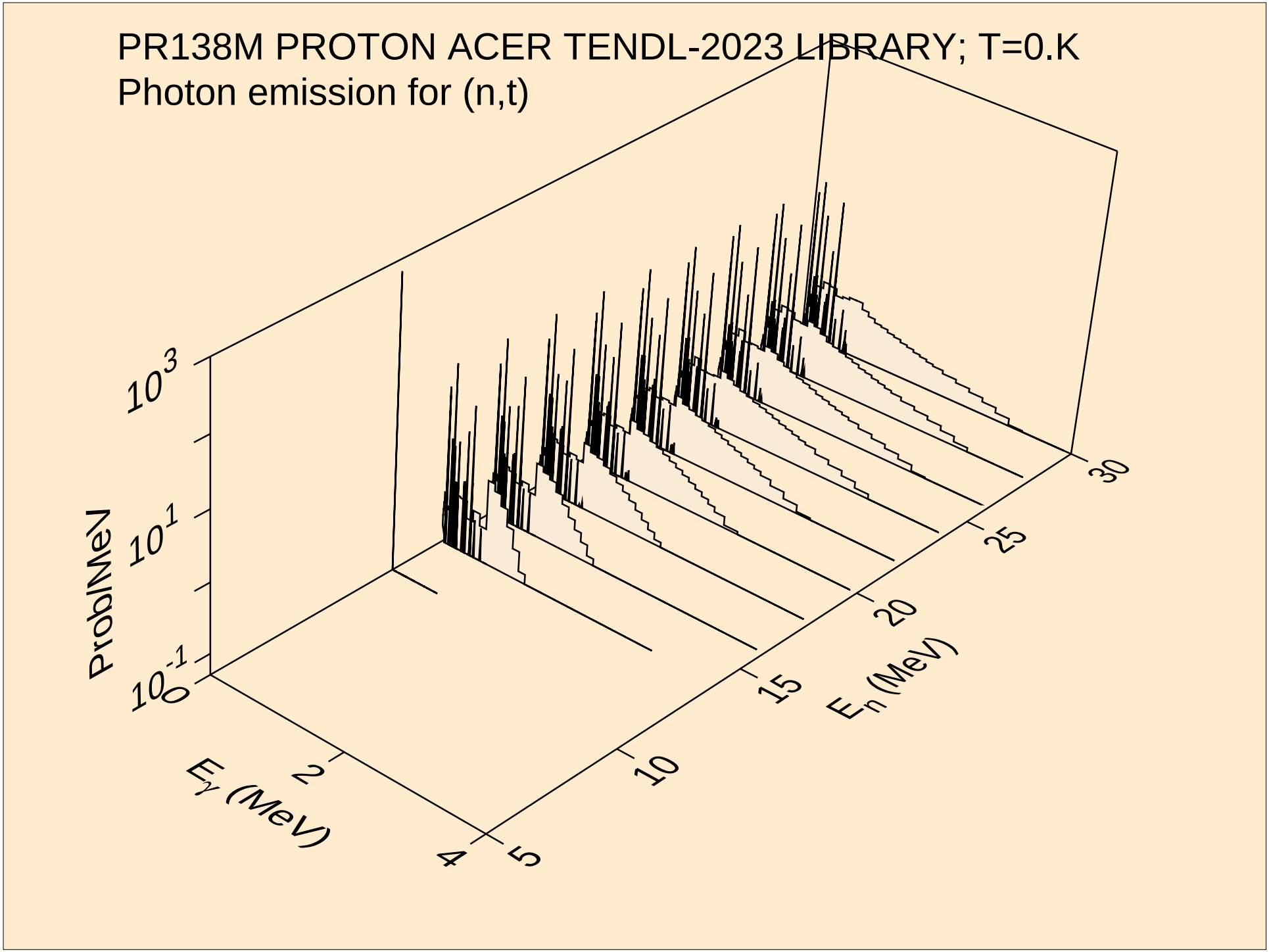

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n2p)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
2
4
6
E_γ (MeV)
10
12
14
16
18
20
22
24
26
28
30
E_n (MeV)

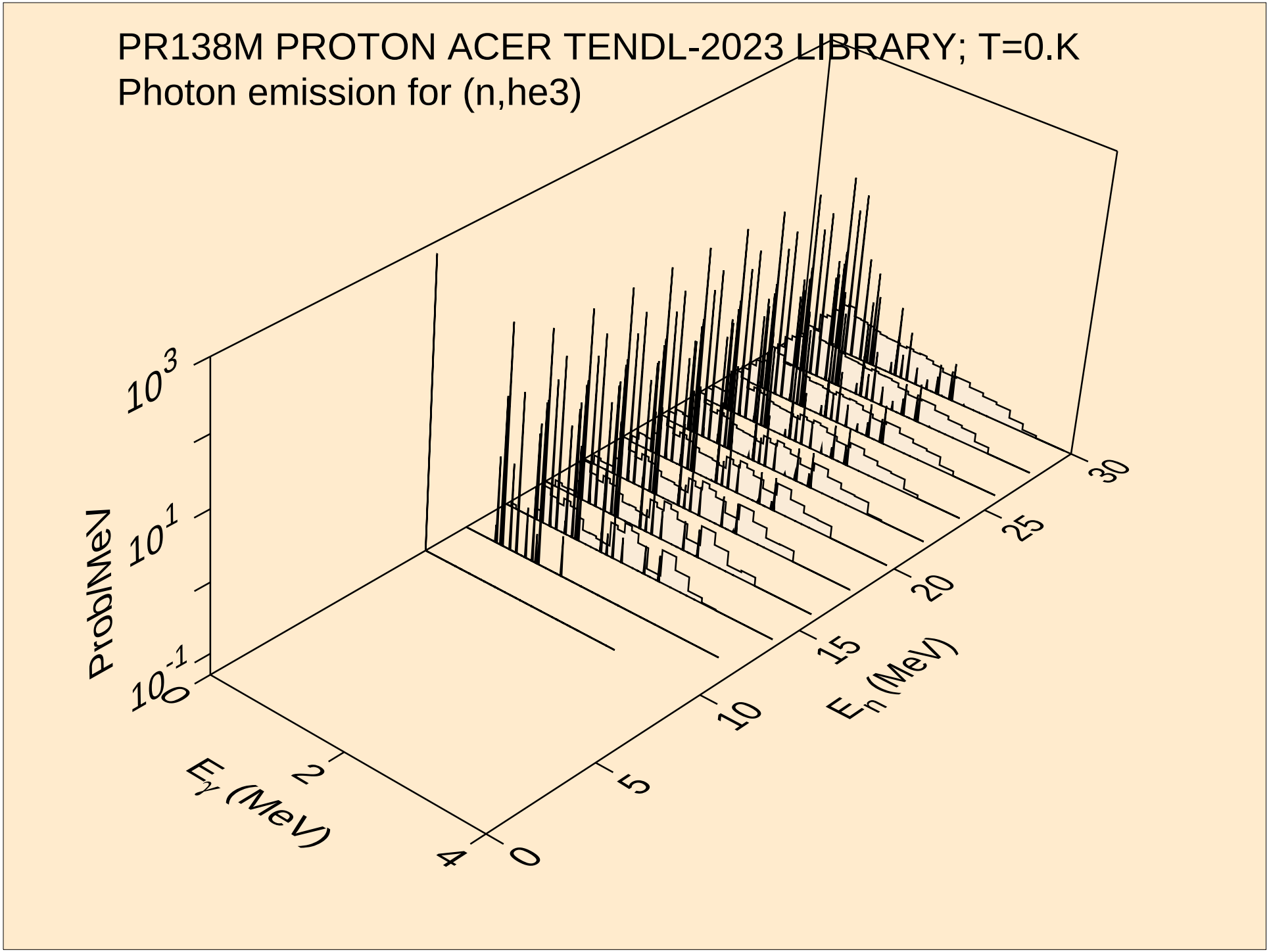

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,npa)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
1
2
5
10
15
20
25
30
E_γ (MeV)
E_n (MeV)

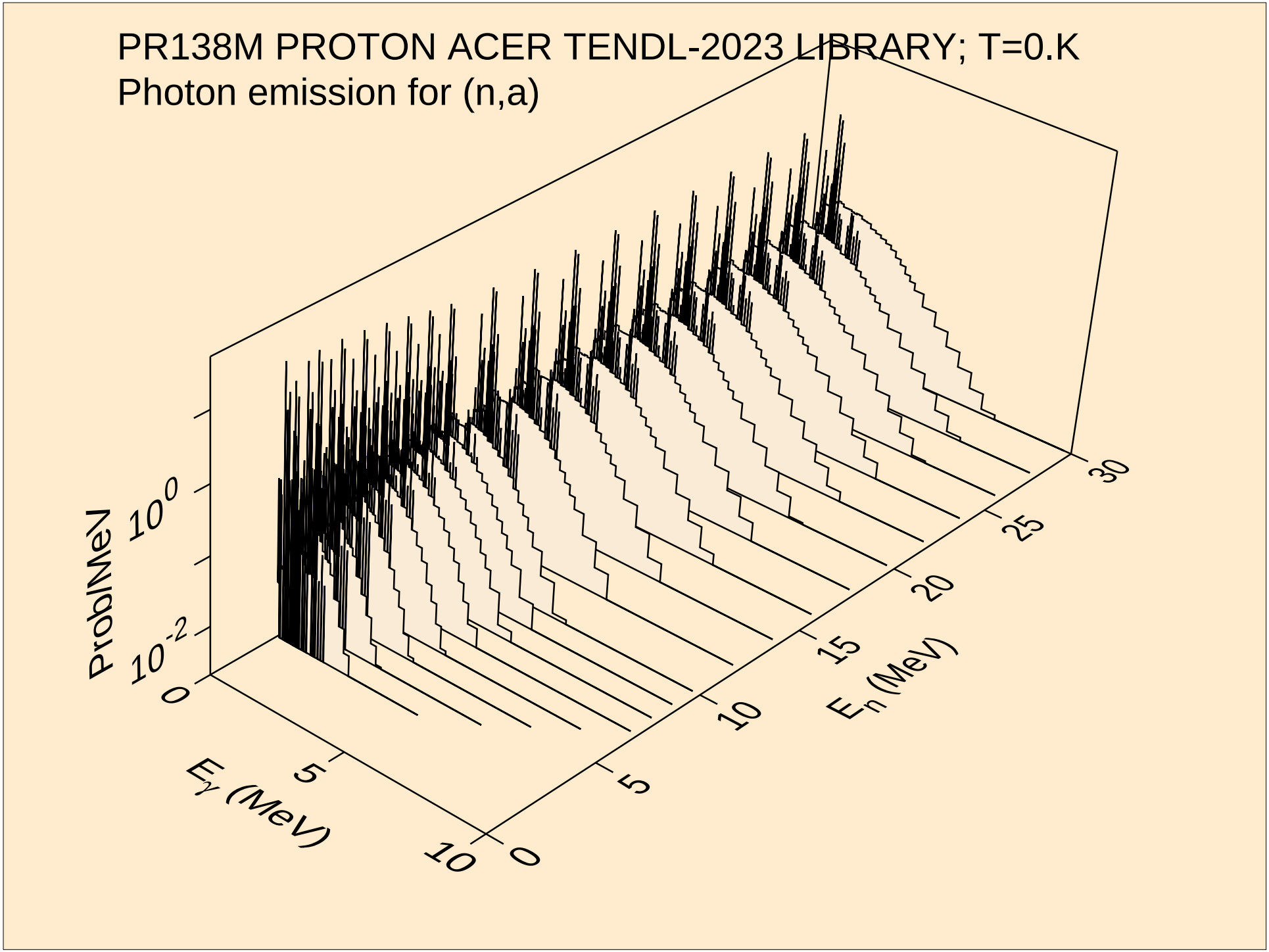

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,gma)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
5
10
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

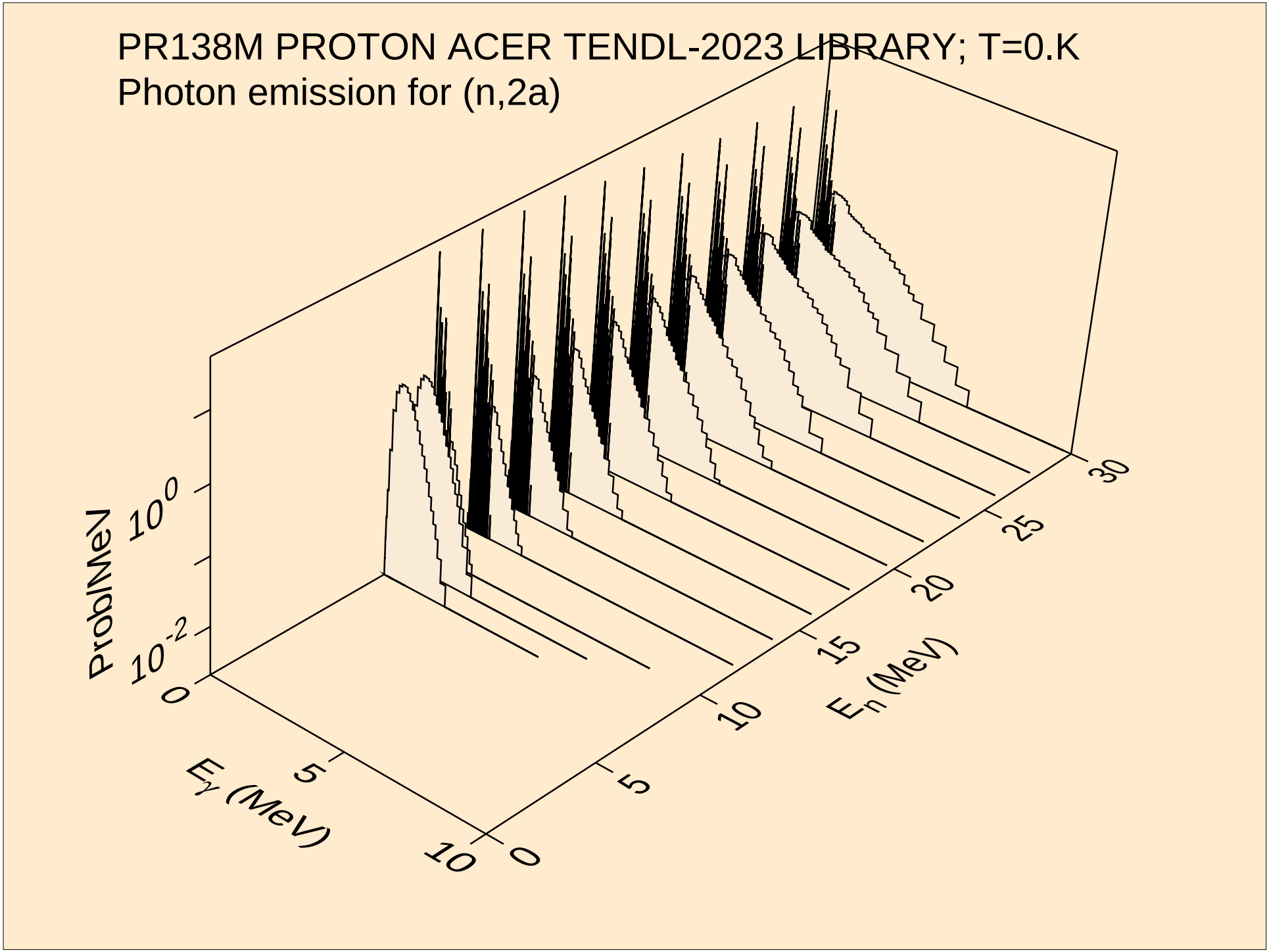

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for inelastic
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

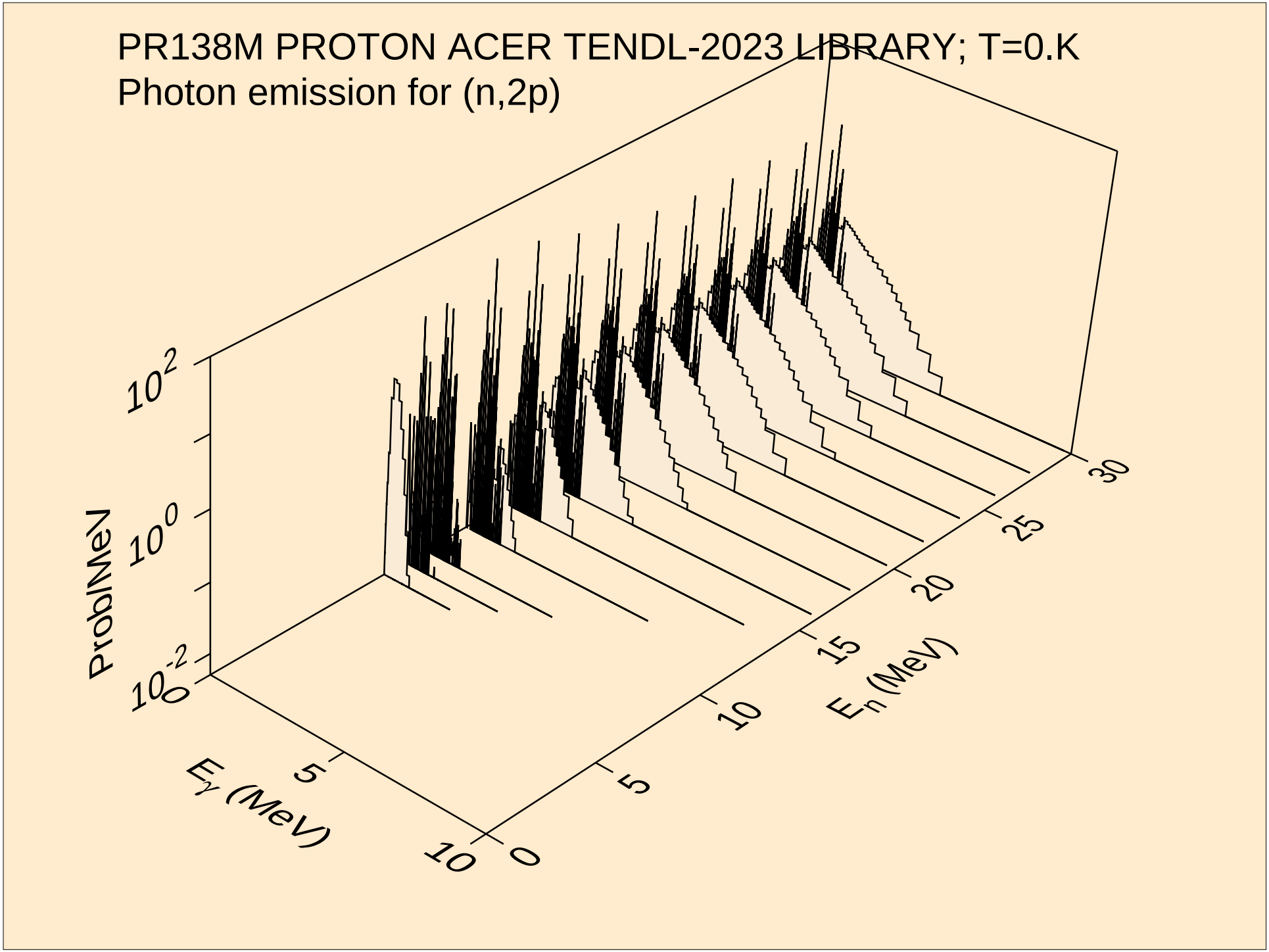

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,d)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
5
10
15
20
25
30
E_n (MeV)

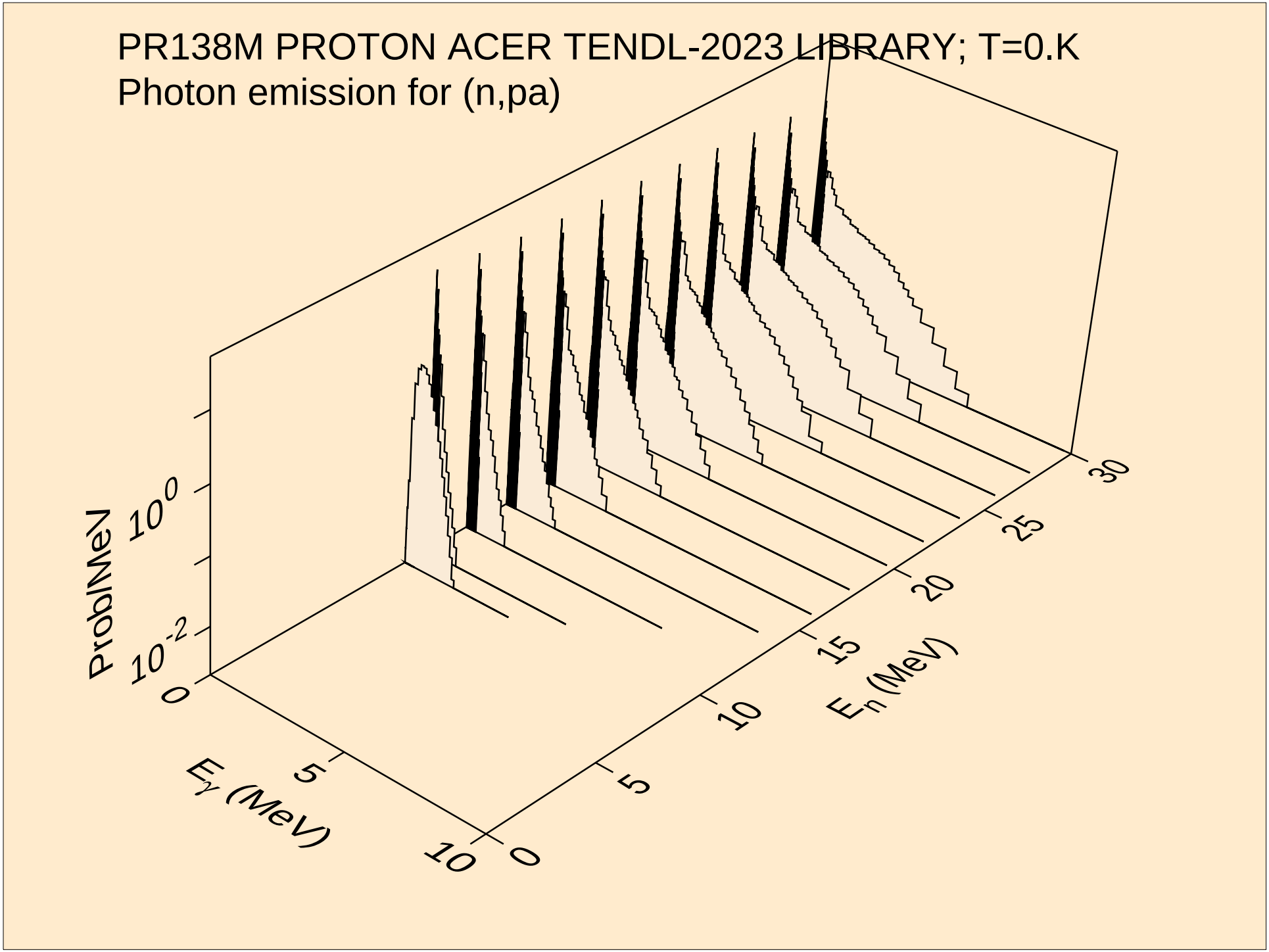

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,t)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
E_γ (MeV)
5
10
15
20
25
30
E_n (MeV)

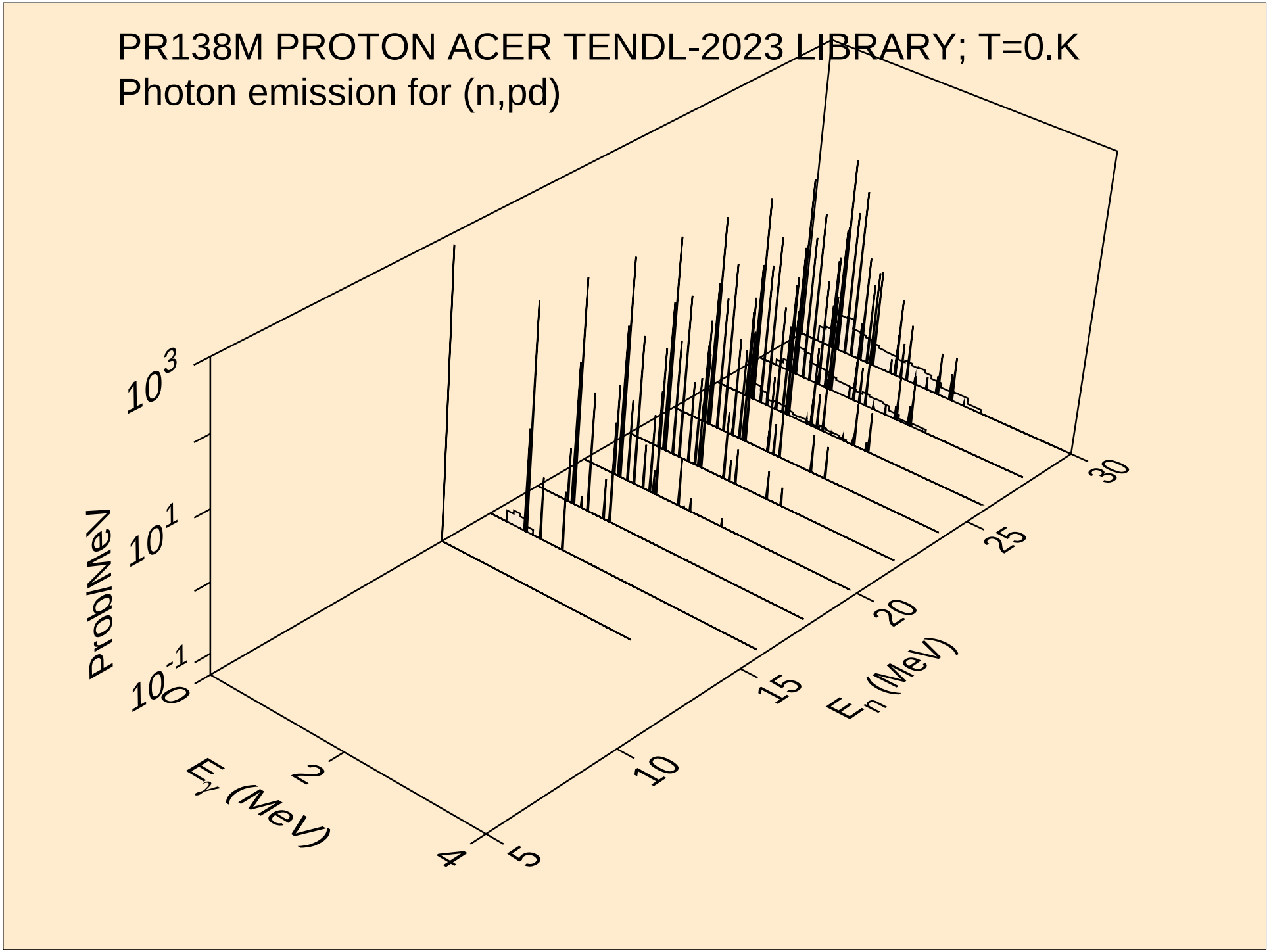

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,he3)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

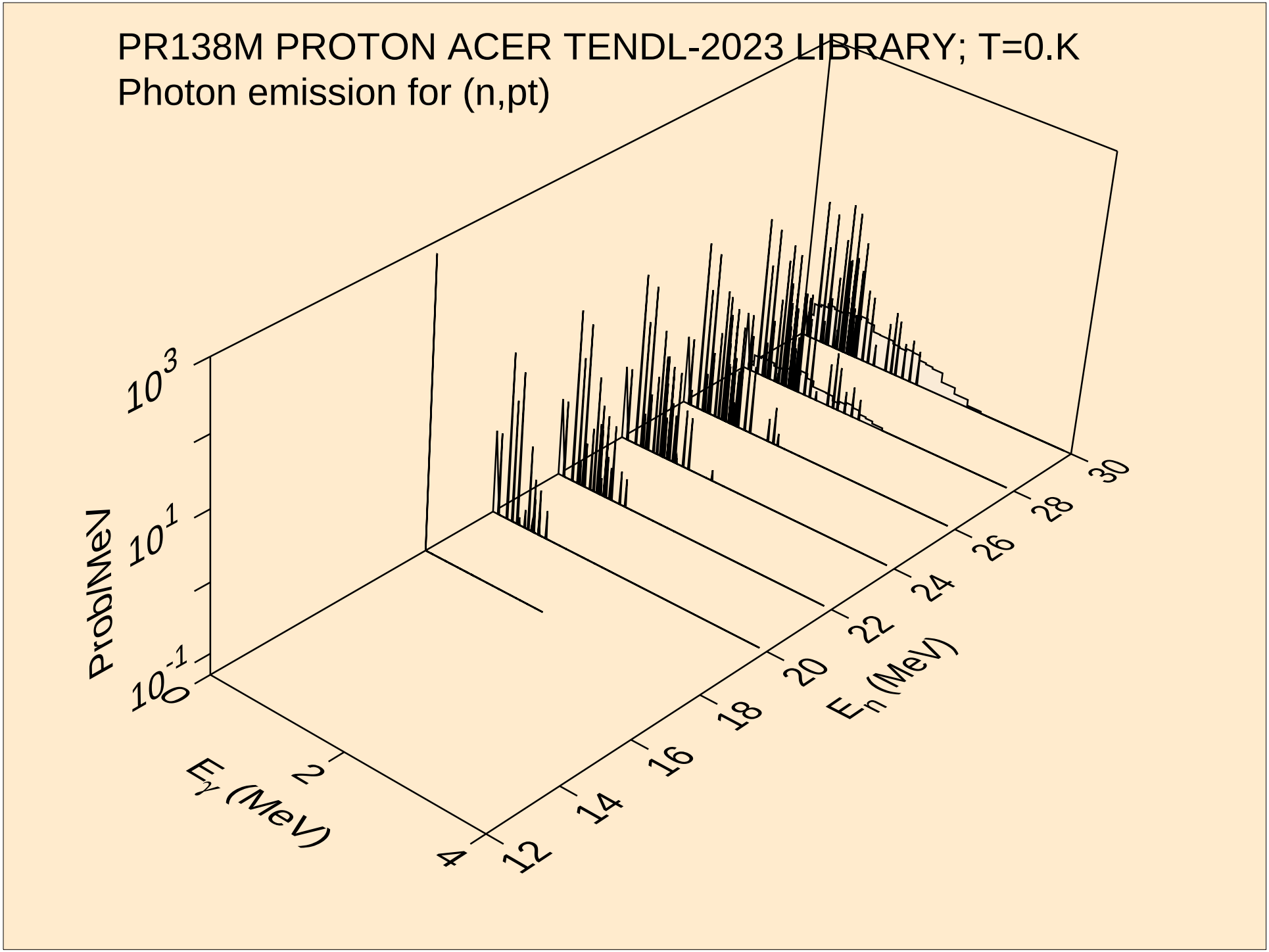

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,a)
Prob/MeV
10^0
10^-2
0
5
10
Eγ (MeV)
0
5
10
15
20
25
30
En (MeV)

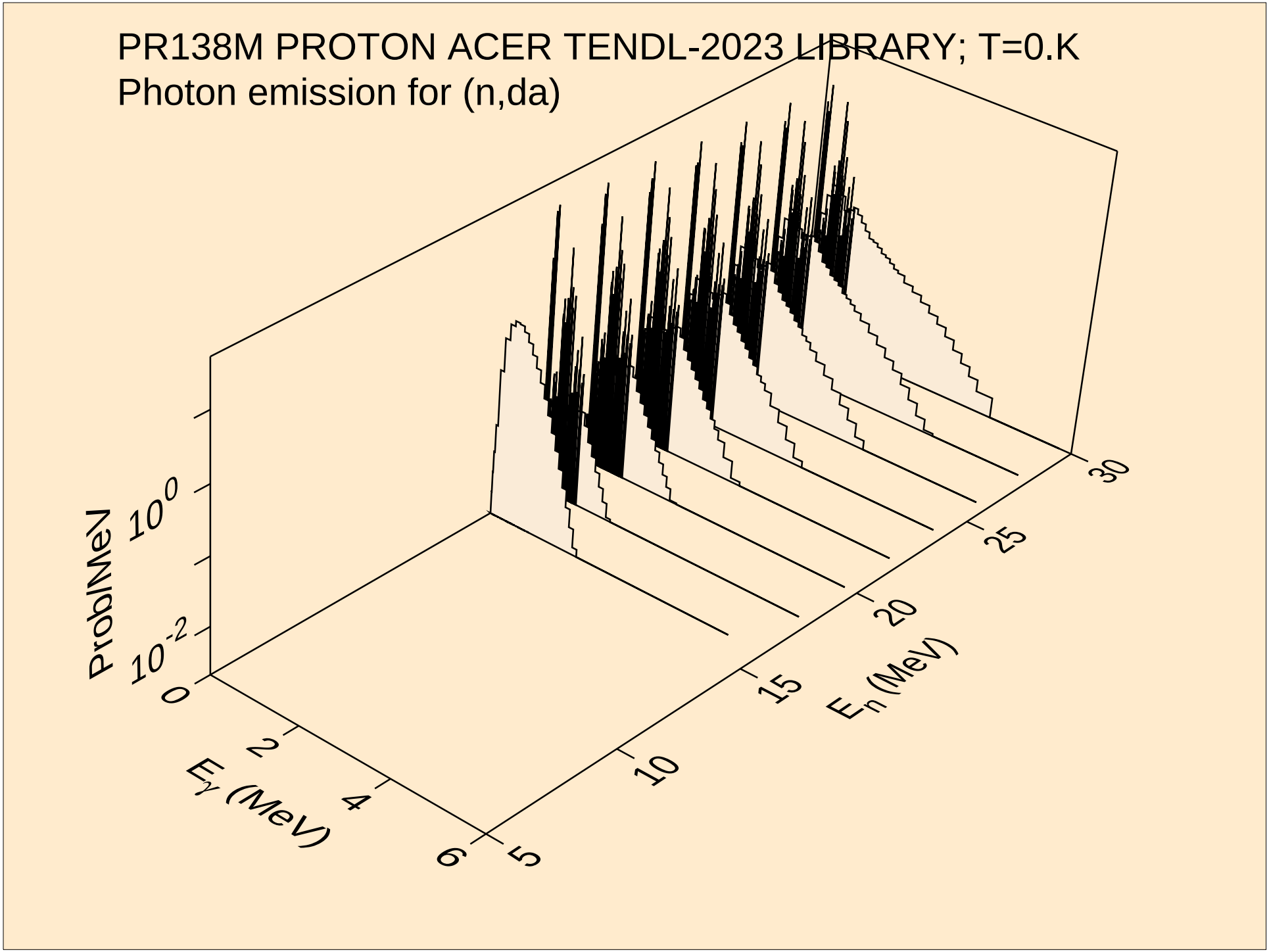

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2a)
Prob/MeV
10^0
10^-2
0
5
10
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

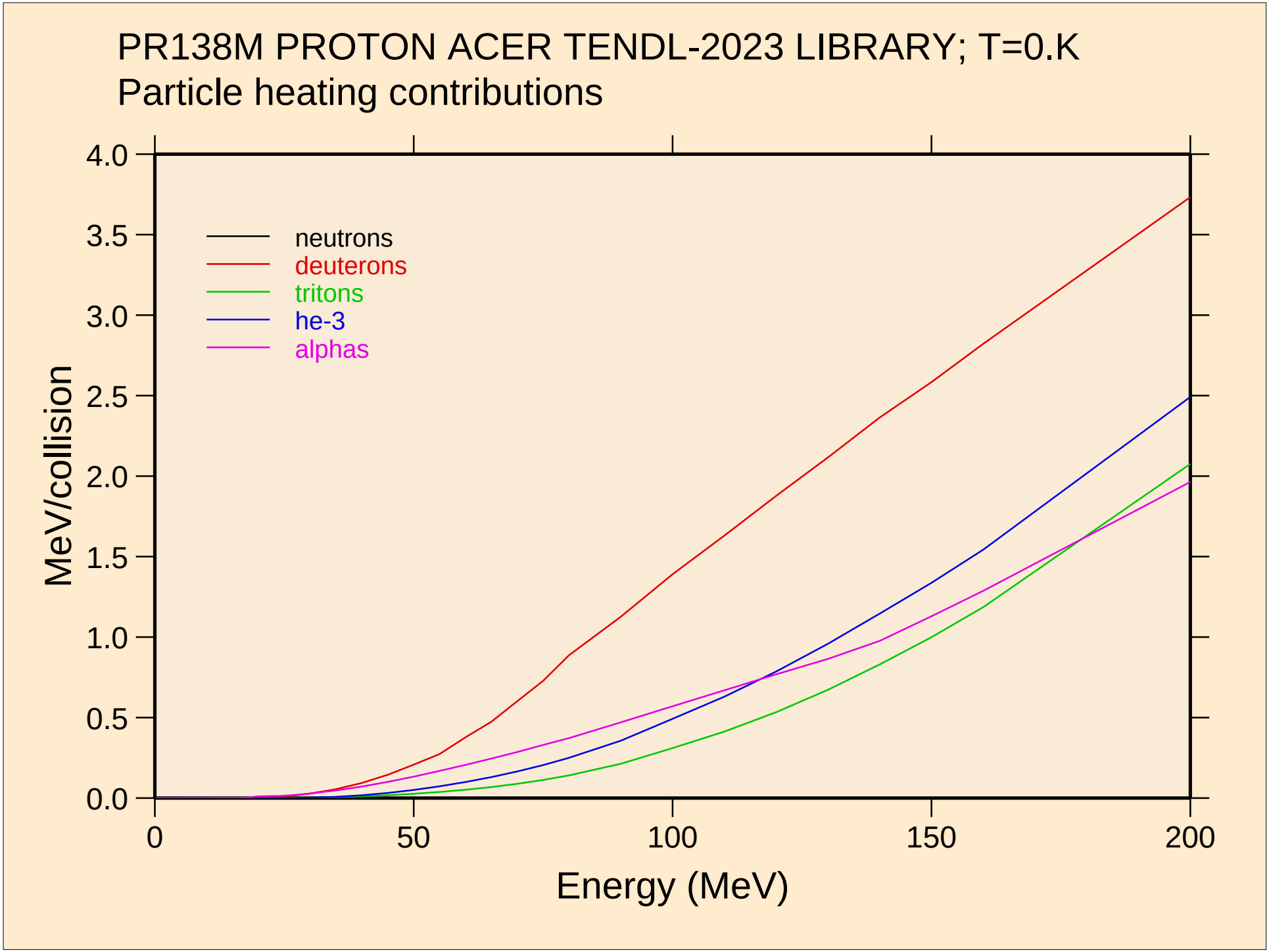

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2p)
Prob/MeV
10^{2}
10^{0}
10^{-2}
E_γ (MeV)
0
5
10
E_n (MeV)
0
5
10
15
20
25
30

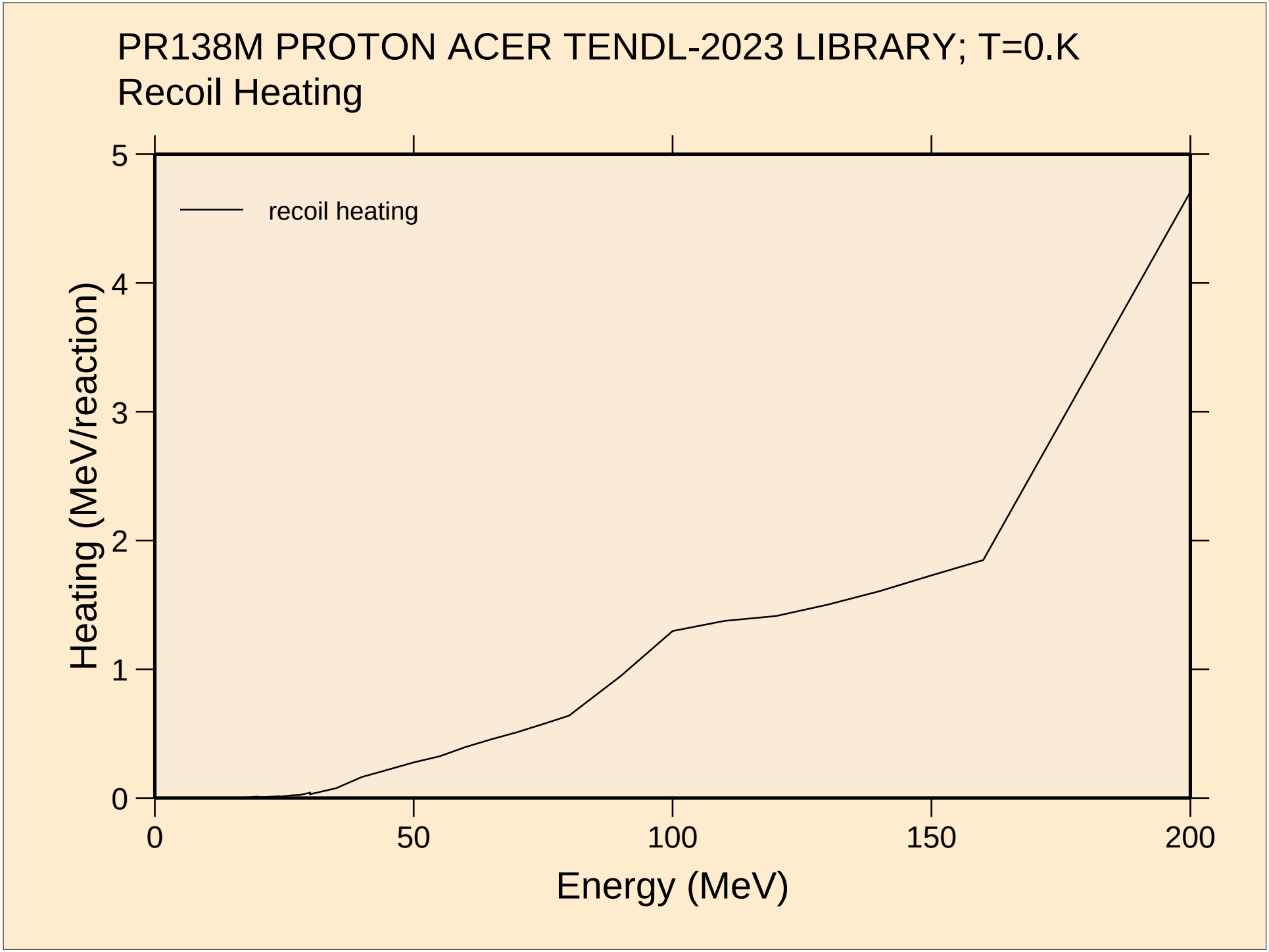

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,pa)
Prob/MeV
10^{0}
10^{-2}
0
E_γ (MeV)
5
10
0
5
10
15
20
25
30
E_n (MeV)

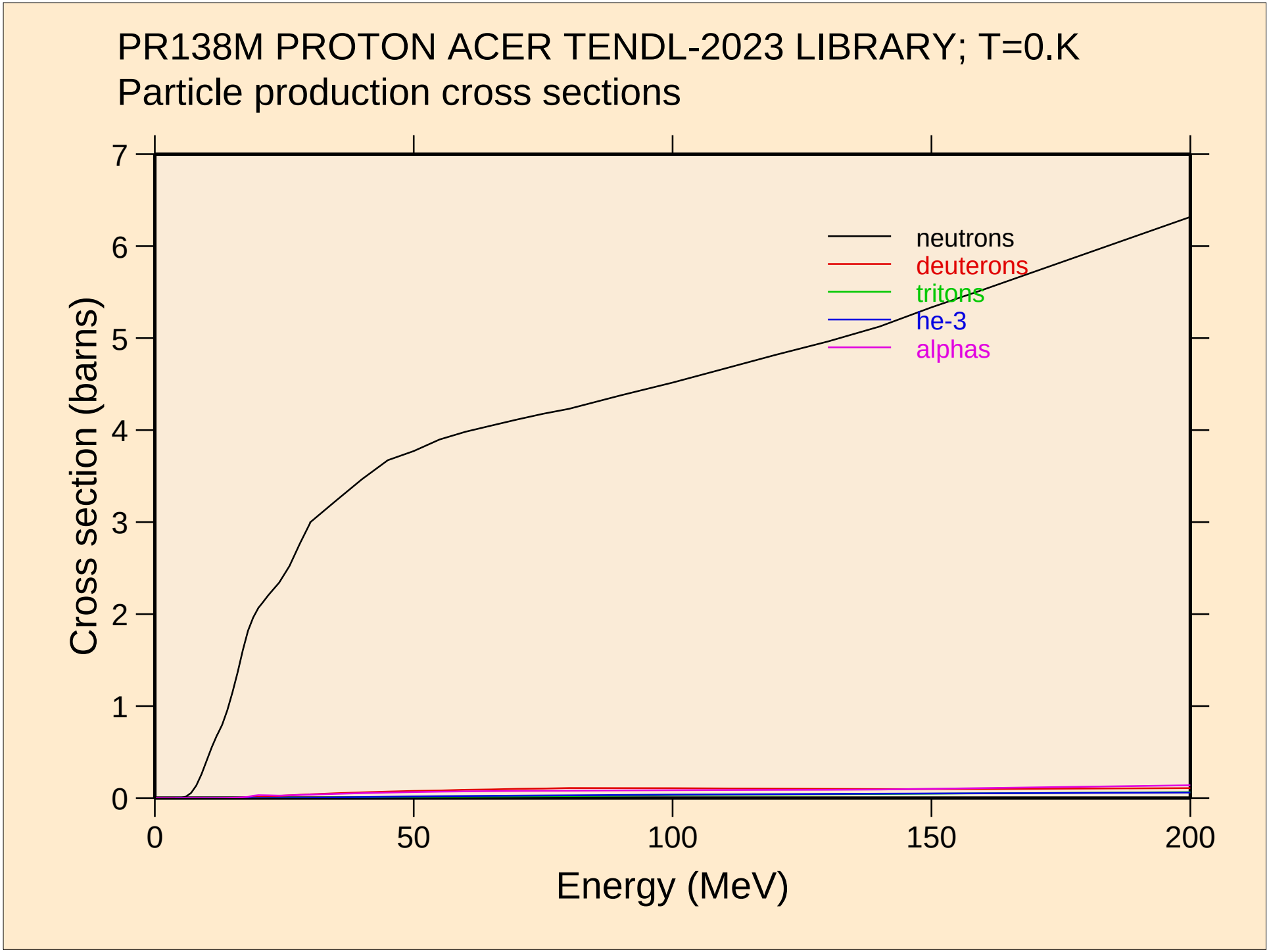

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,pd)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
E_γ (MeV)
5
10
15
20
25
30
E_n (MeV)

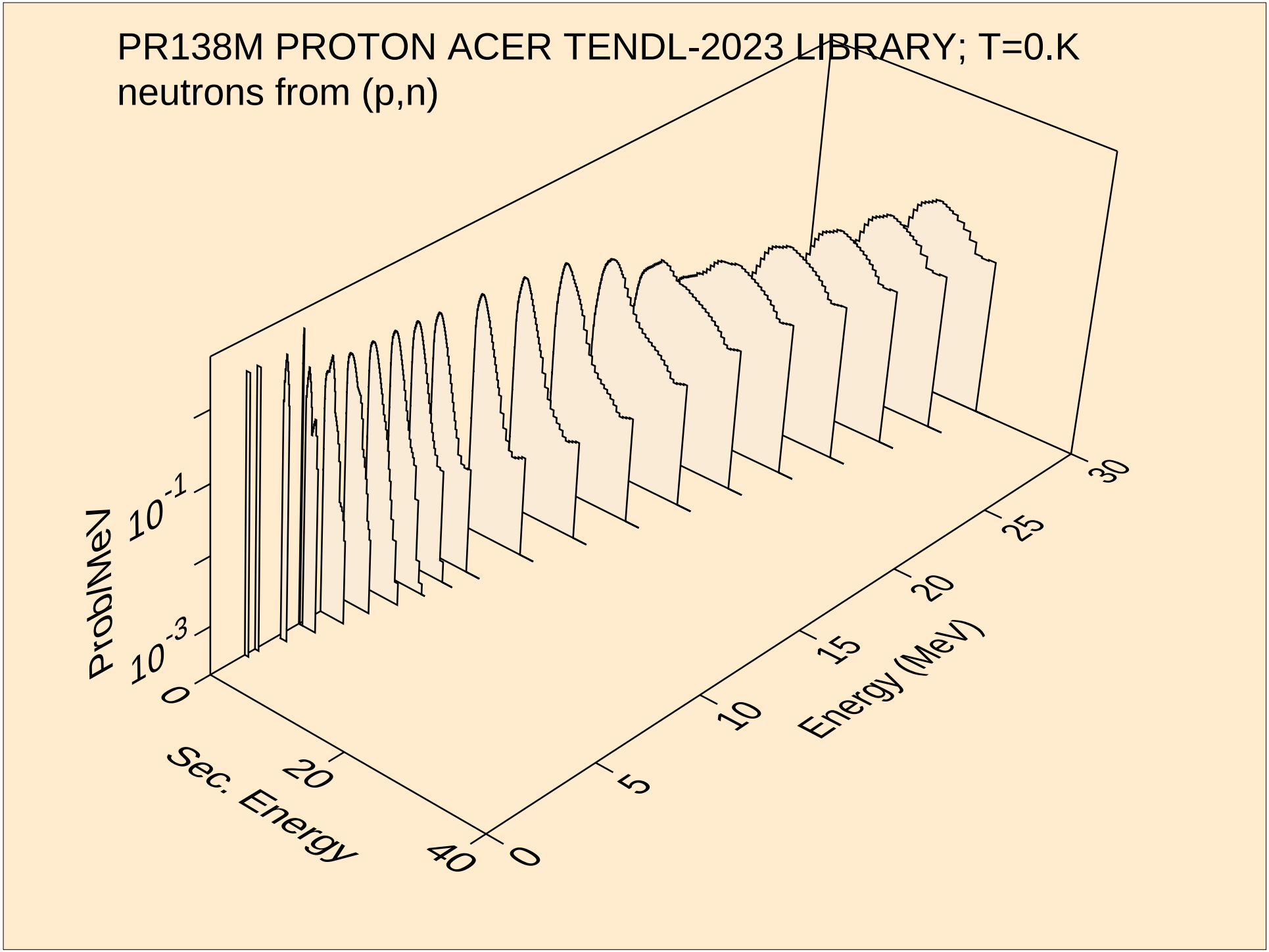

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,pt)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
E_γ (MeV)
12
14
16
18
20
22
24
26
28
30
E_n (MeV)

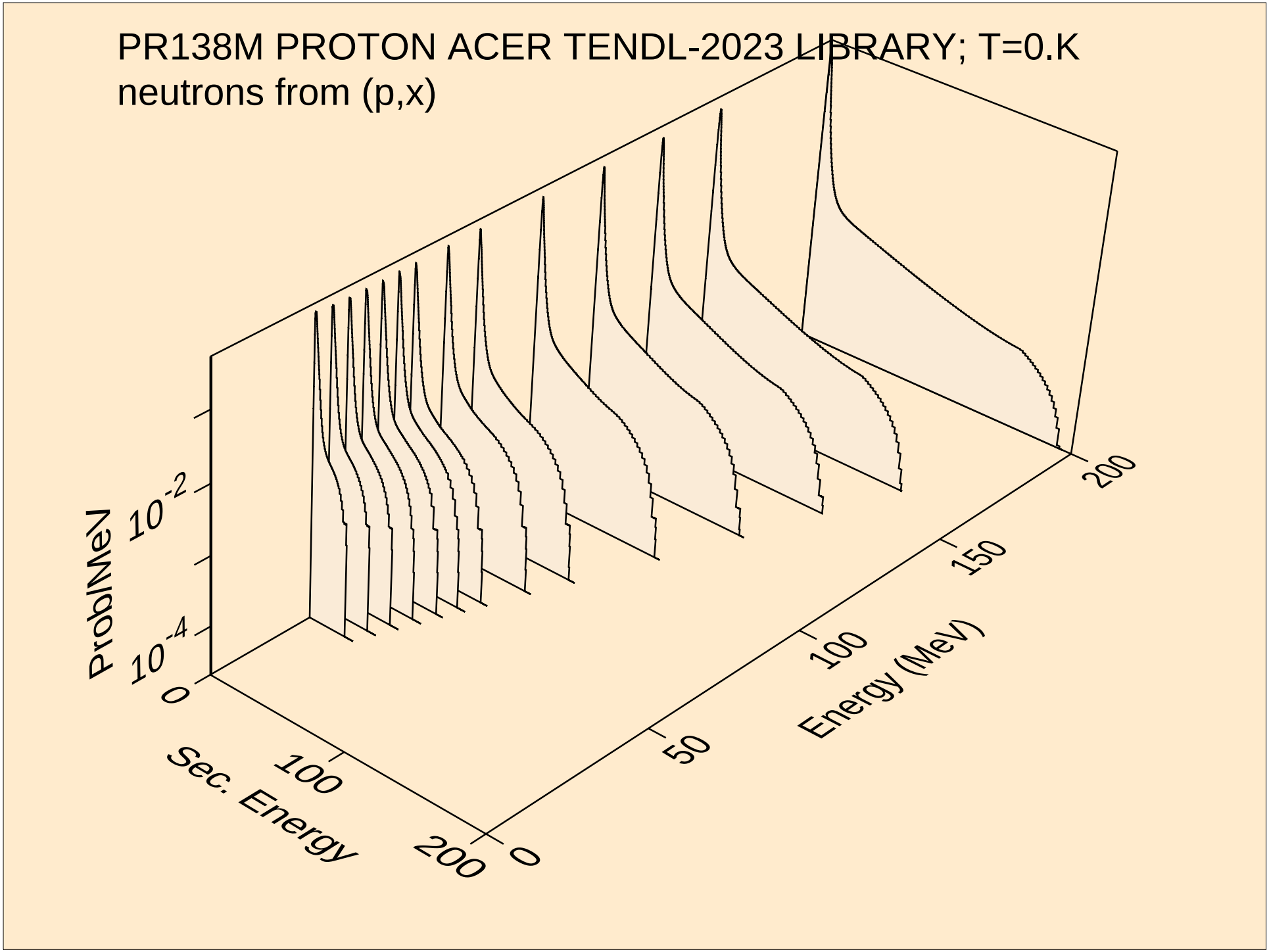

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,da)
Prob/MeV
10^0
10^-2
0
2
4
6
E_γ (MeV)
5
10
15
20
25
30
E_n (MeV)

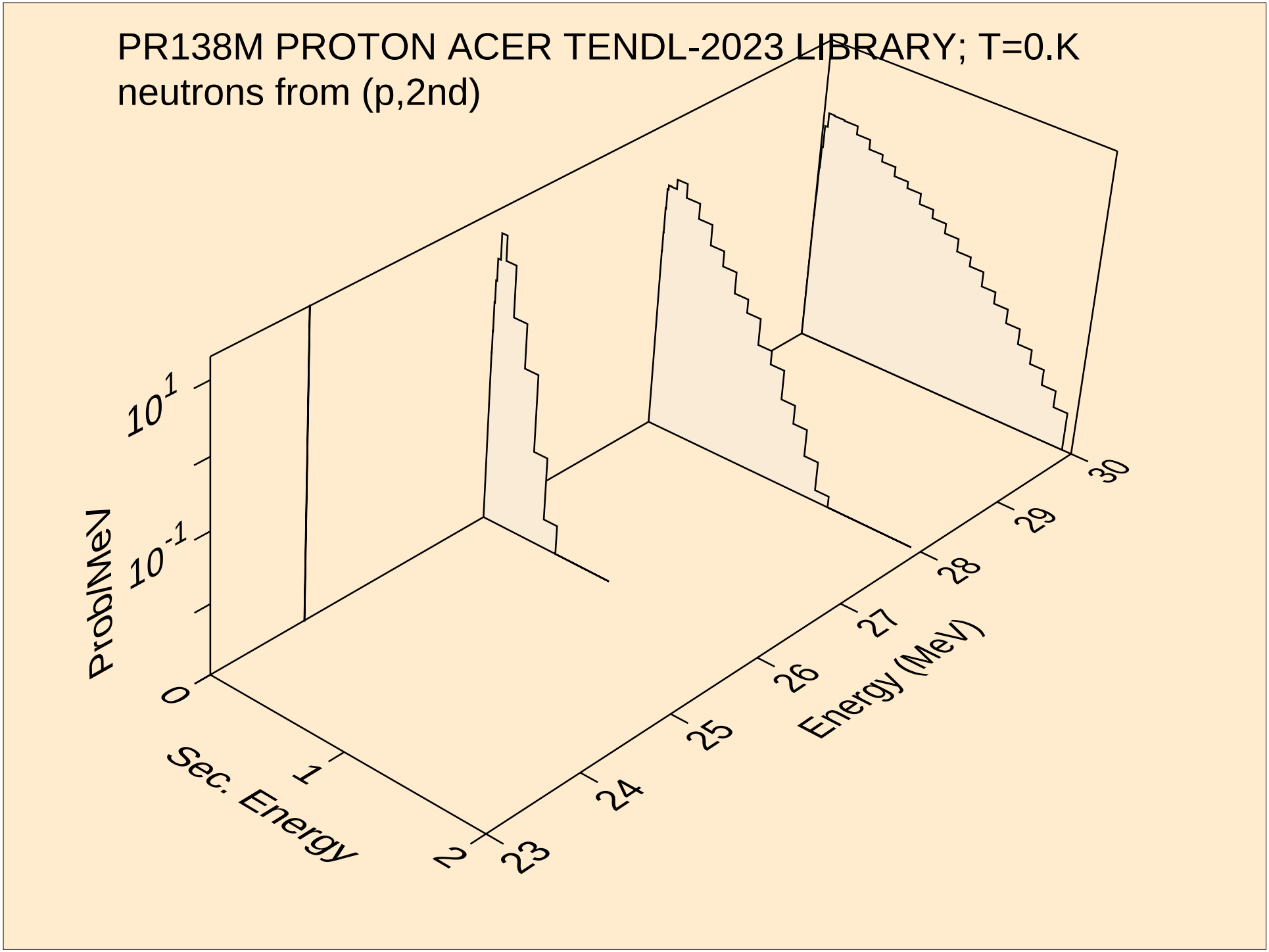

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Particle heating contributions
neutrons
deuterons
tritons
he-3
alphas
MeV/collision
Energy (MeV)
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
0
50
100
150
200

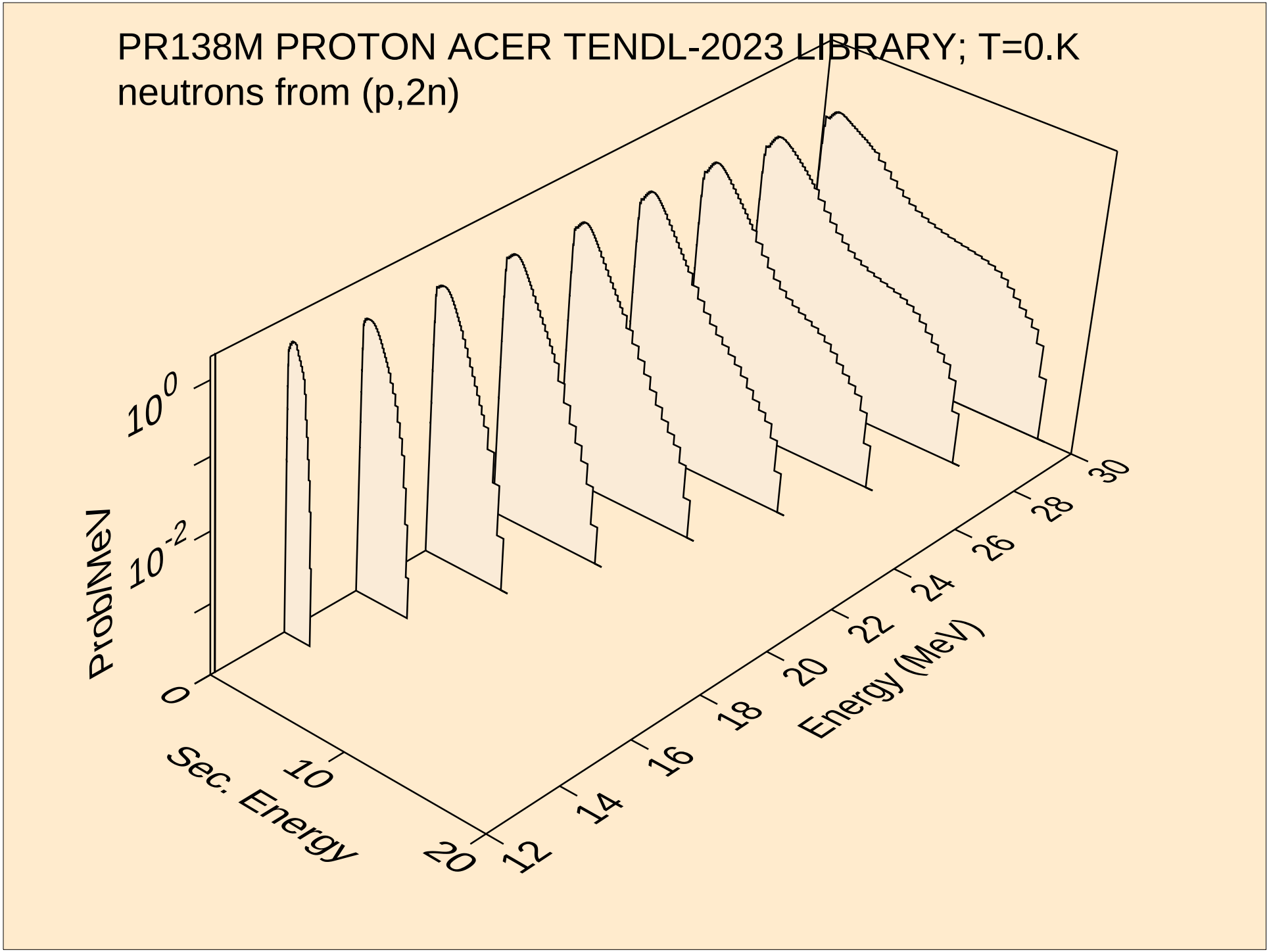

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Recoil Heating
recoil heating
Heating (MeV/reaction)
Energy (MeV)
0
1
2
3
4
5
0
50
100
150
200

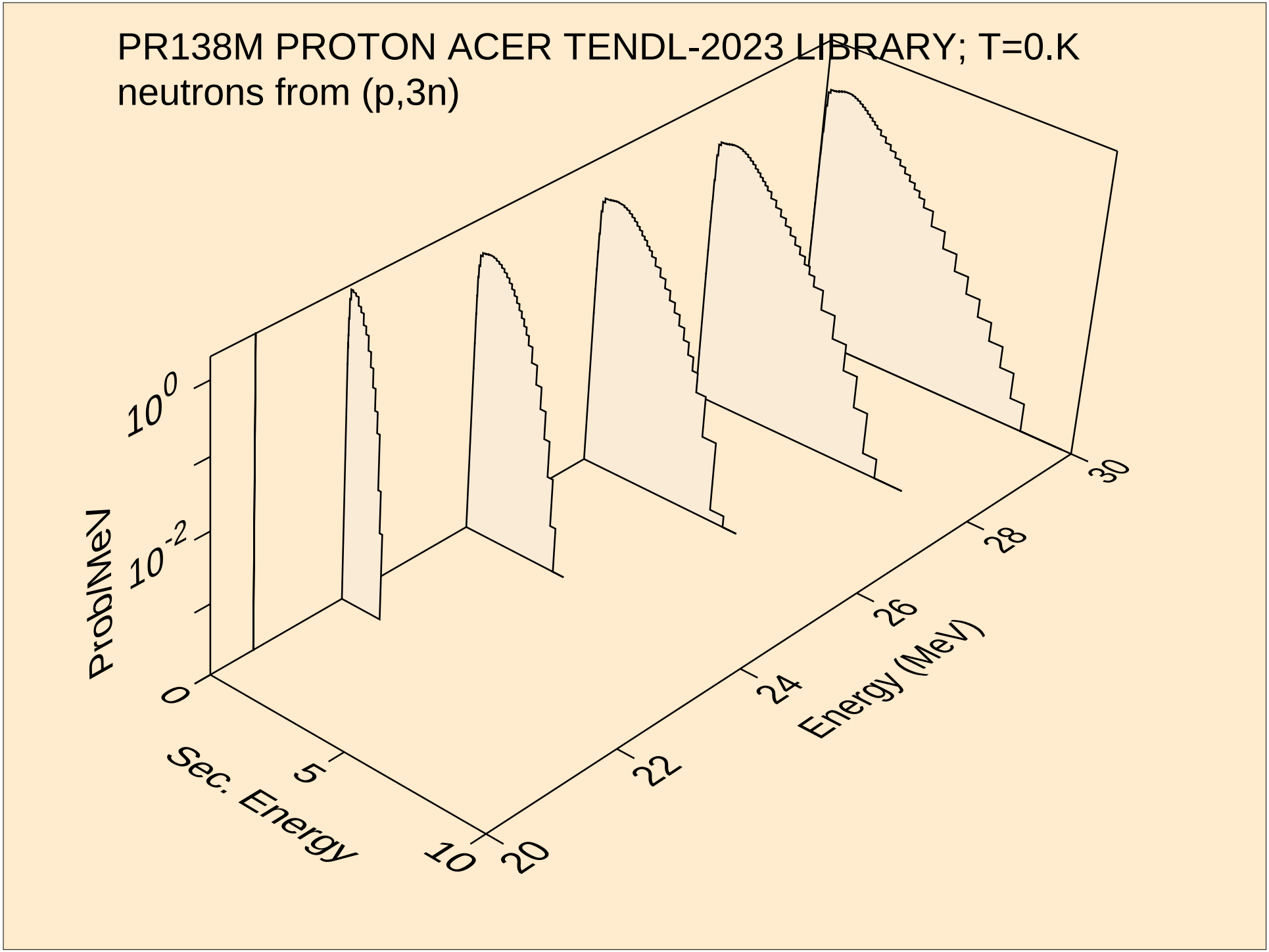

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
Particle production cross sections
Cross section (barns)
Energy (MeV)
0
1
2
3
4
5
6
7
0
50
100
150
200
neutrons
deuterons
tritons
he-3
alphas

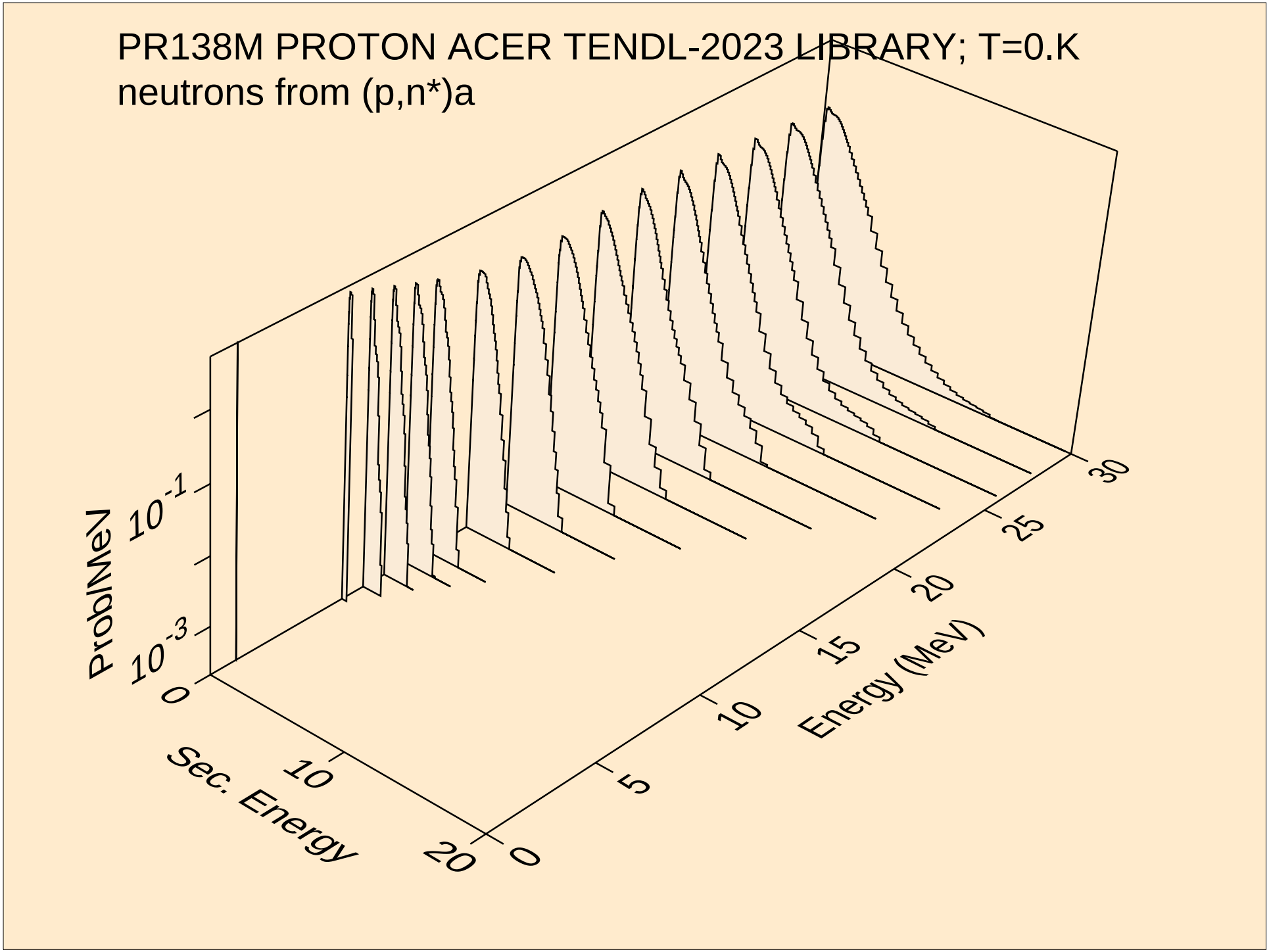

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (p,n)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)

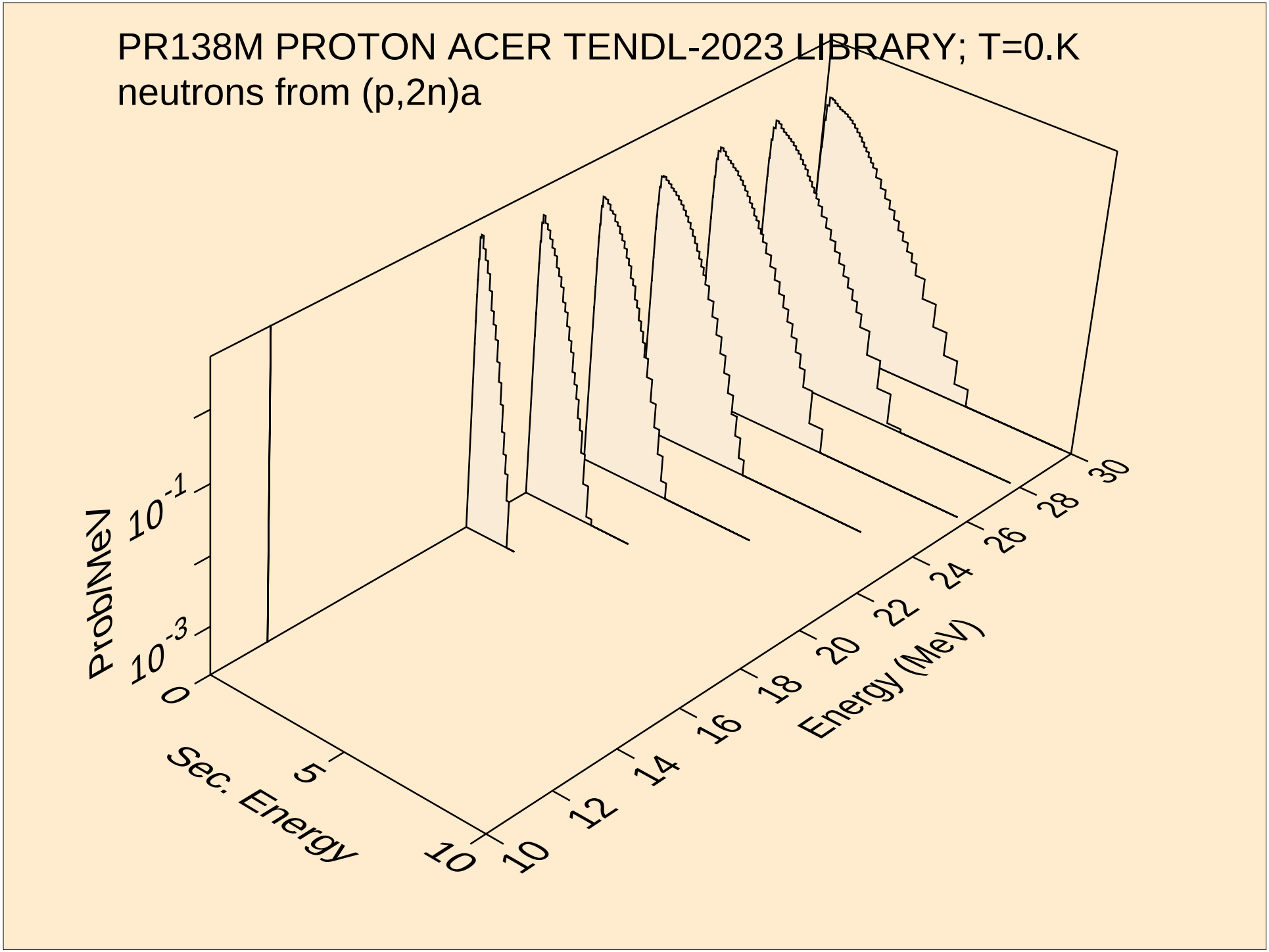

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (p,x)
Prob/MeV
10-2
10-4
0
Sec. Energy
100
200
0
50
100
150
200
Energy (MeV)

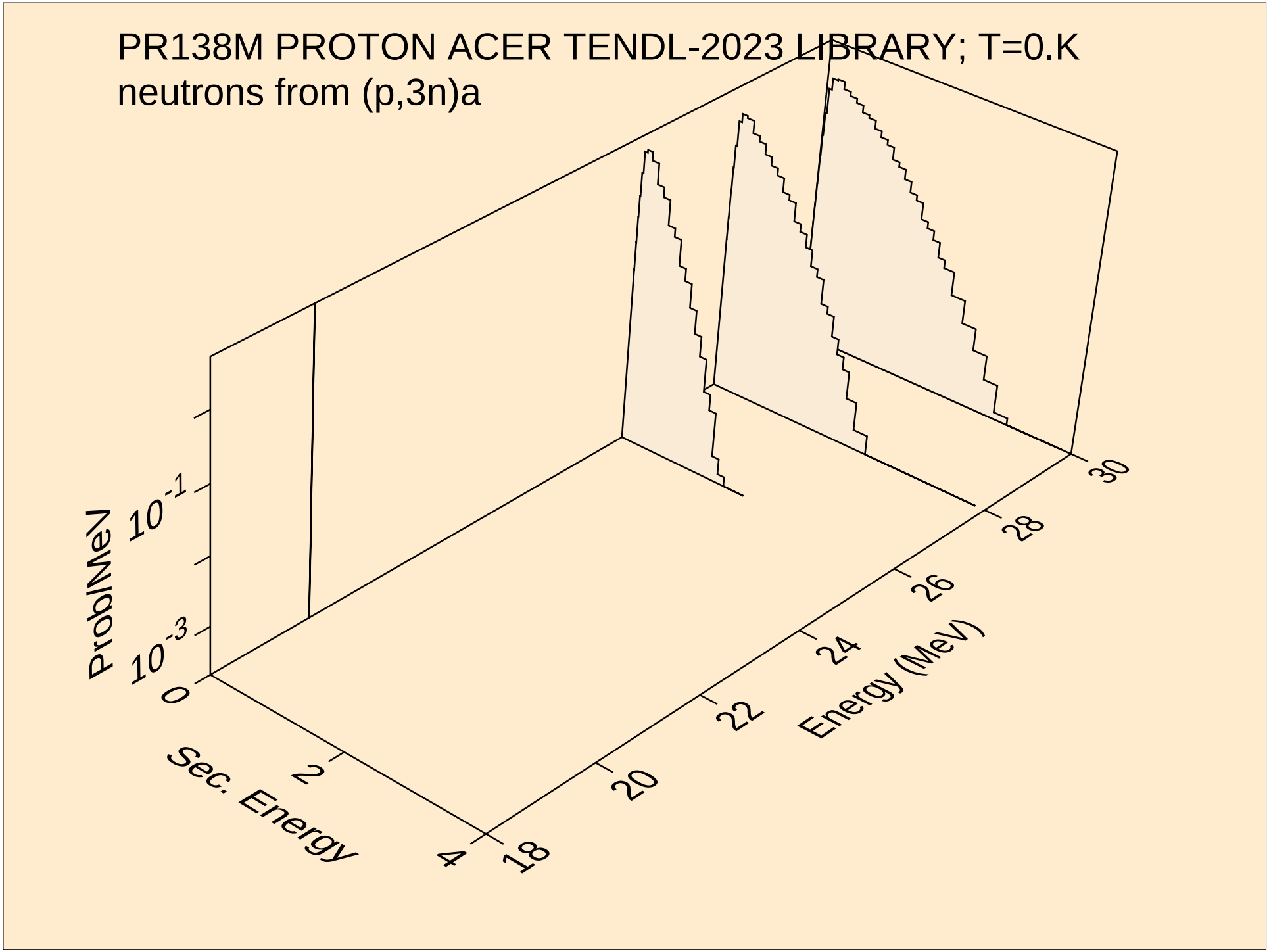

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (p,2nd)
Prob/MeV
10^1
10^-1
0
Sec. Energy
1
2
23
24
25
26
27
28
29
30
Energy (MeV)

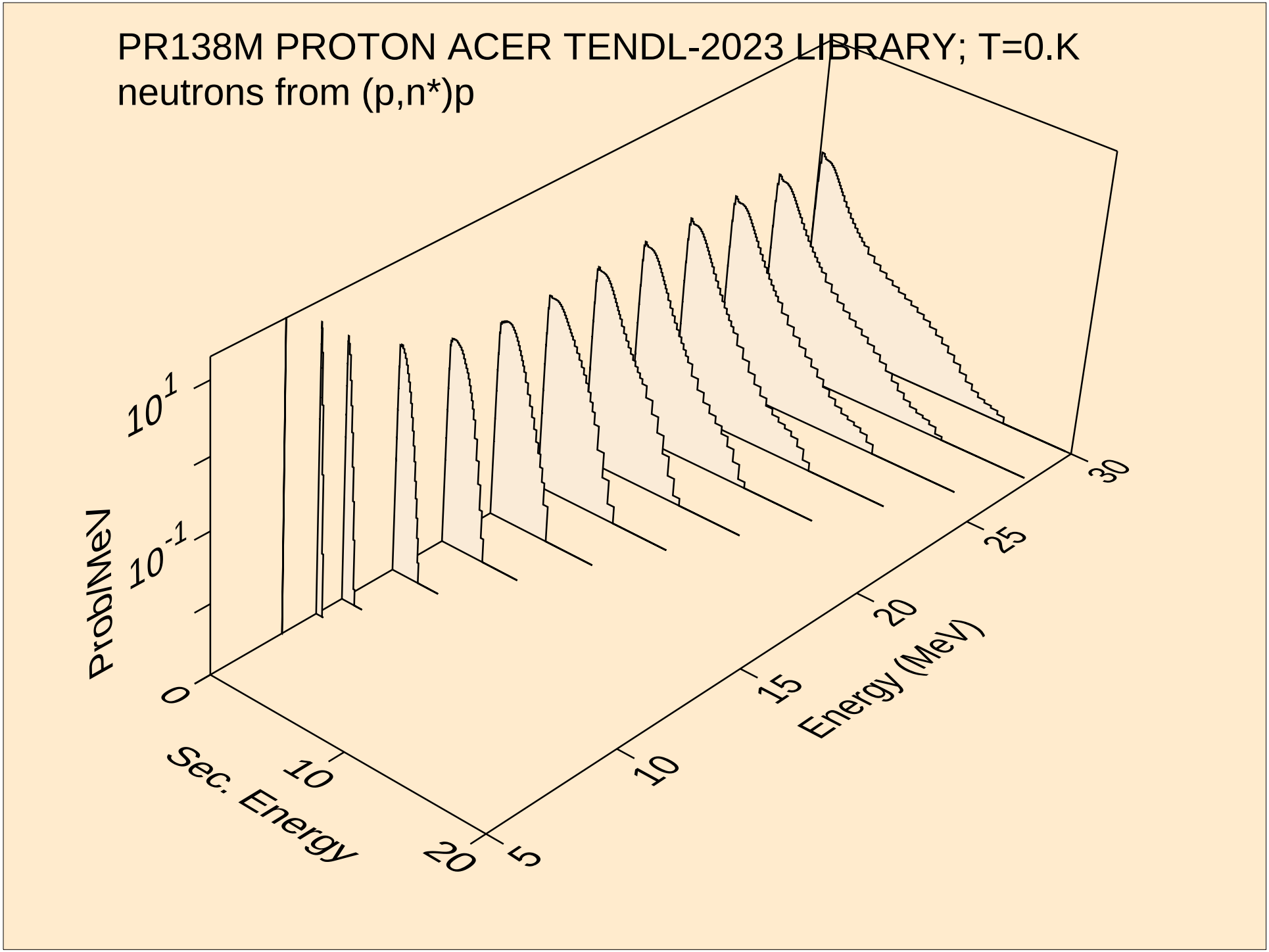

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (p,2n)
Prob/MeV
10^{0}
10^{-2}
0
Sec. Energy
10
20
Energy (MeV)
12
14
16
18
20
22
24
26
28
30

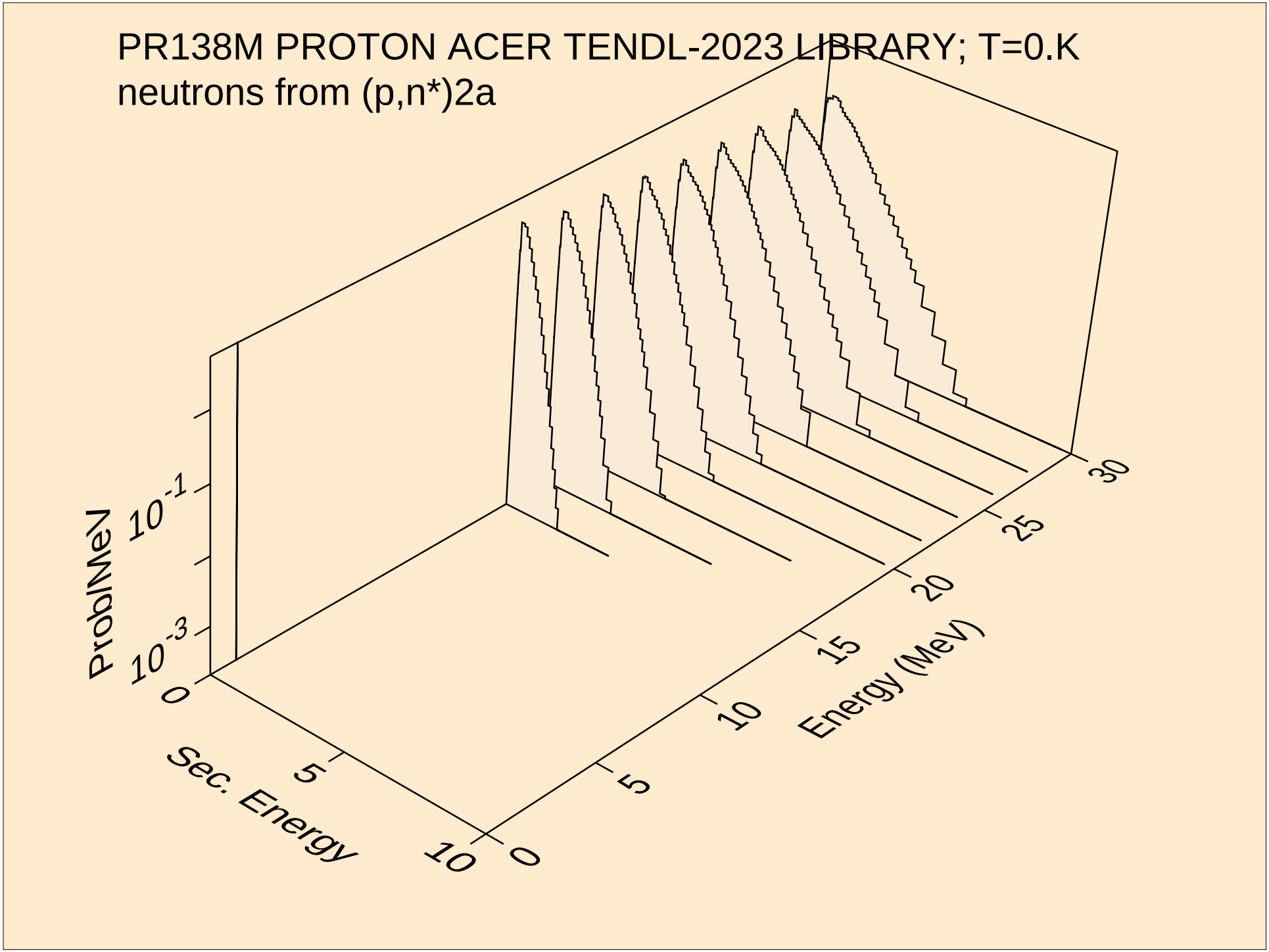

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (p,3n)
Prob/MeV
10^0
10^-2
0
Sec. Energy
5
10
20
22
24
Energy (MeV)
26
28
30

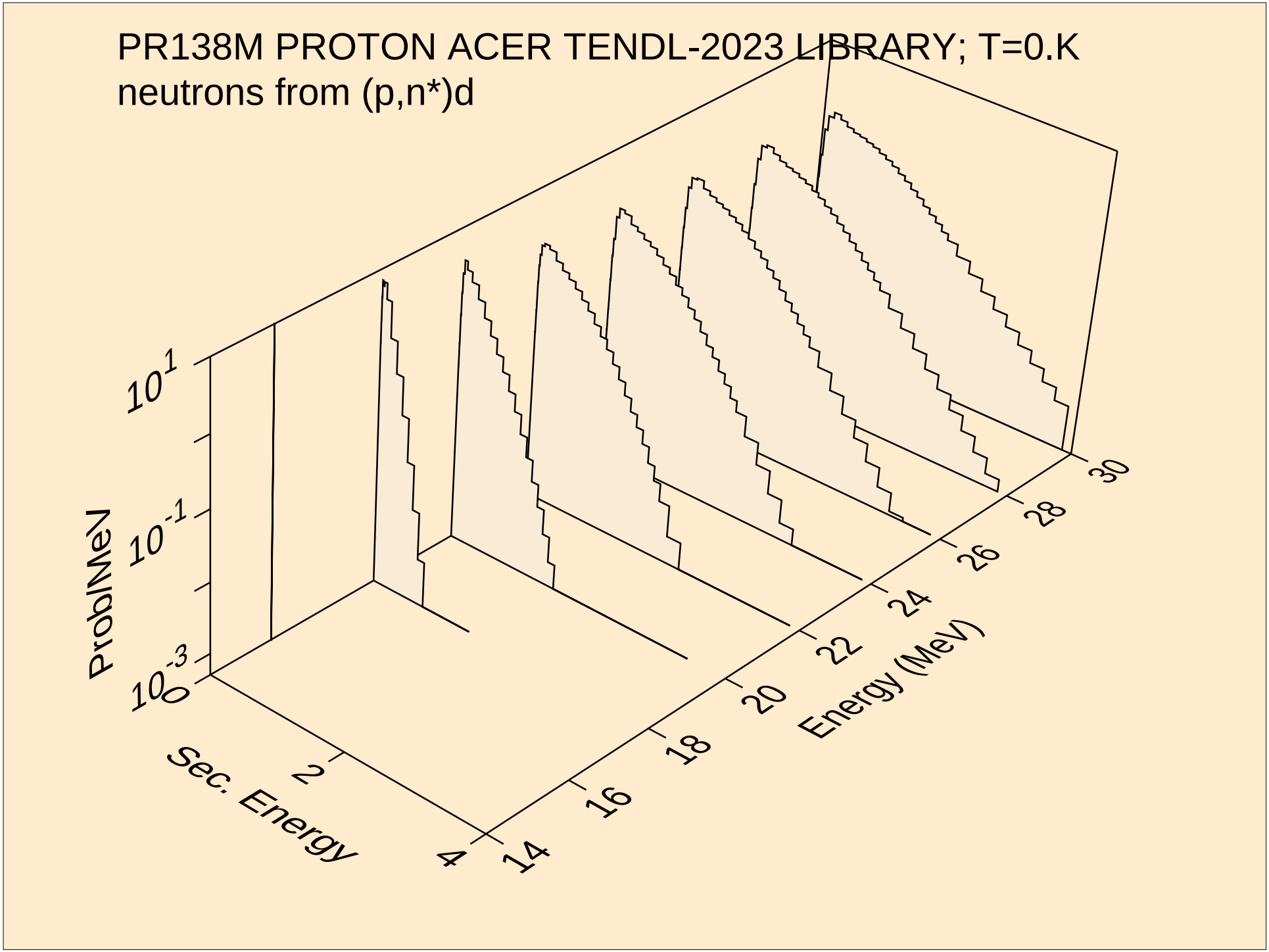

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (p,n*)a
Prob/MeV
10-1
10-3
0
Sec. Energy
10
20
0
5
10
15
20
25
30
Energy (MeV)

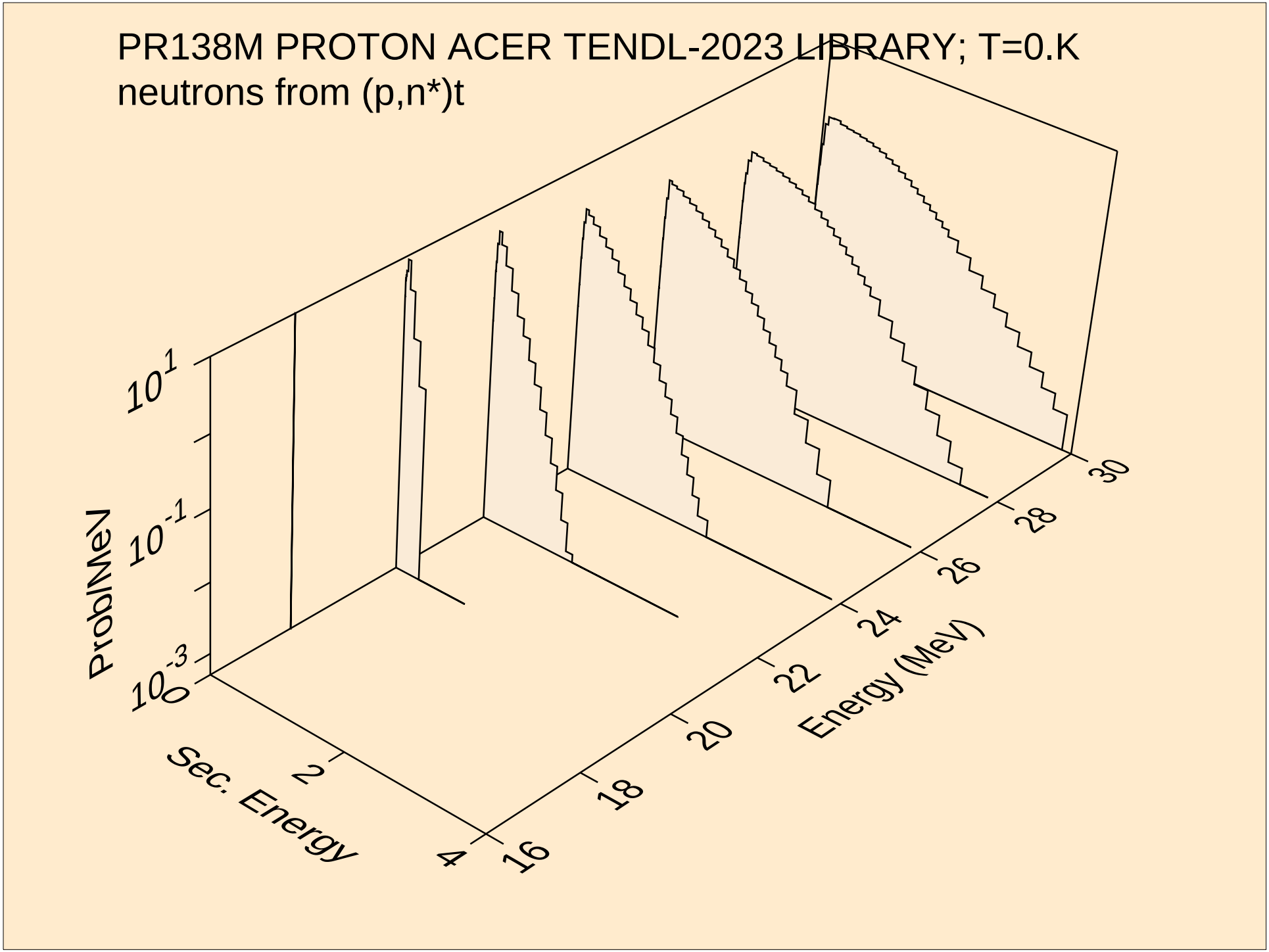

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (p,2n)a
Prob/MeV
10-1
10-3
0
Sec. Energy
5
10
10
12
14
16
18
20
22
24
26
28
30
Energy (MeV)

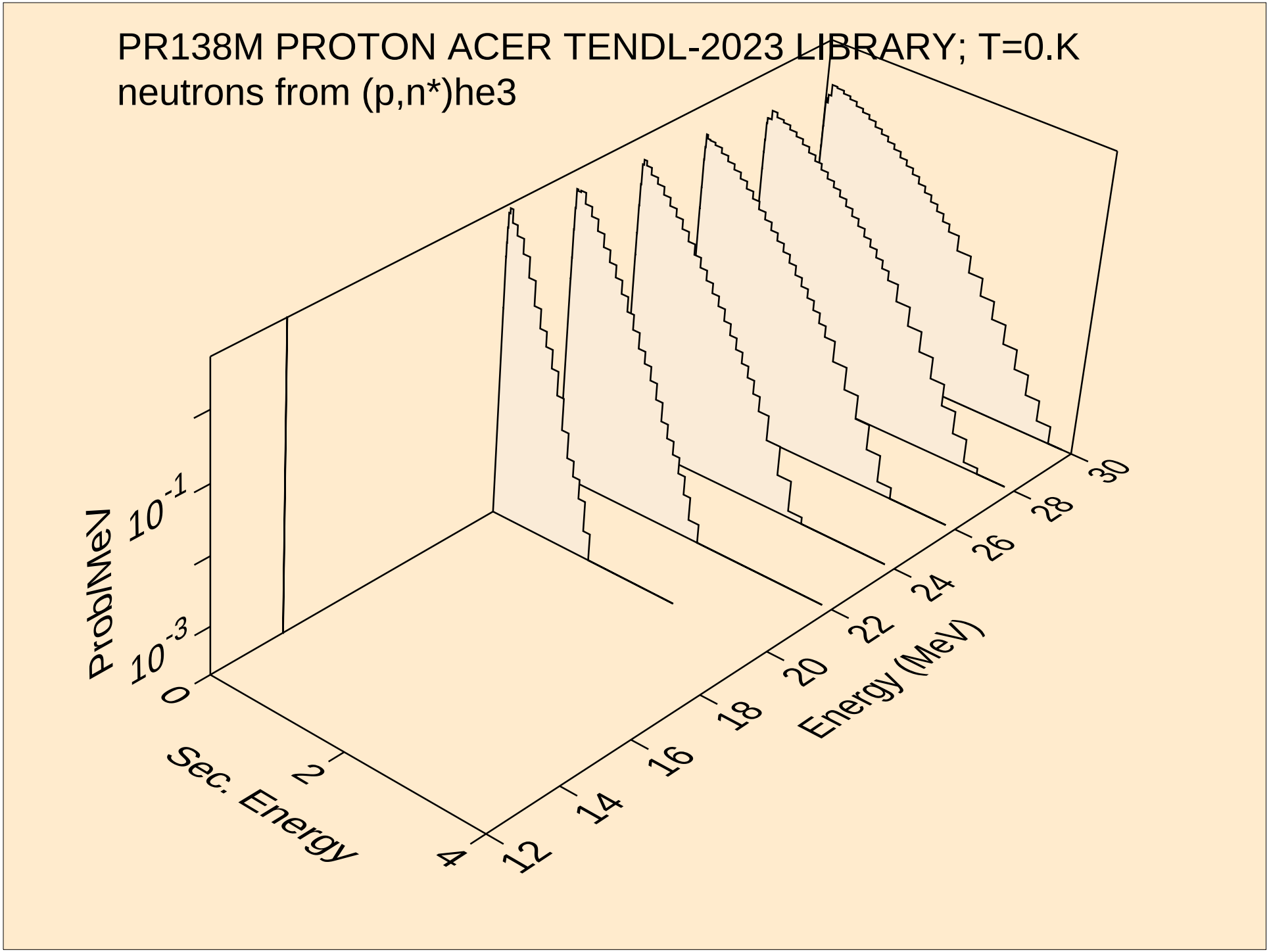

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (p,3n)a
Prob/MeV
10-1
10-3
0
Sec. Energy
2
4
18
20
22
24
26
28
30
Energy (MeV)

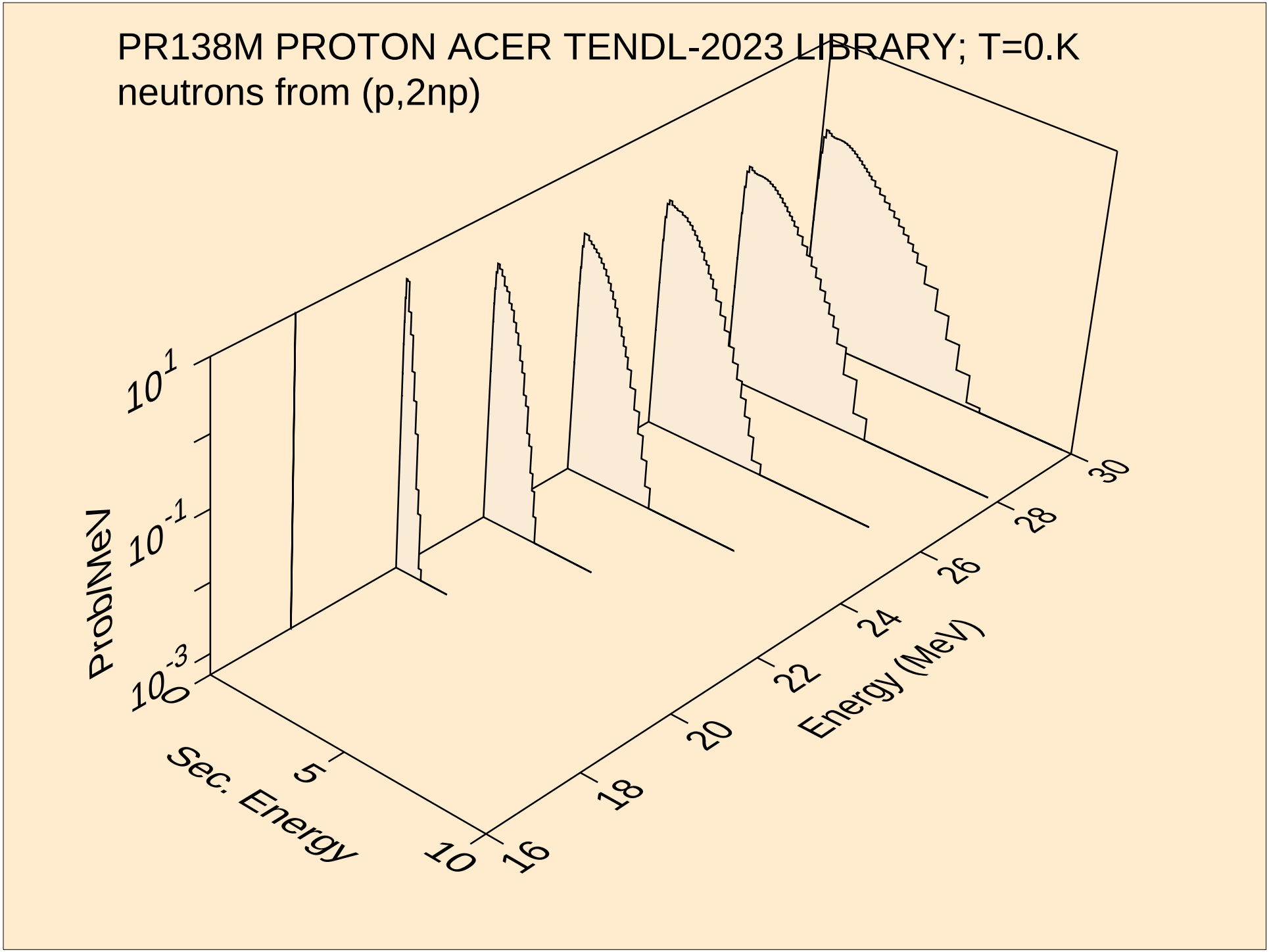

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (p,n*)p
Prob/MeV
10^{1}
10^{-1}
0
Sec. Energy
10
20
5
10
15
20
25
30
Energy (MeV)

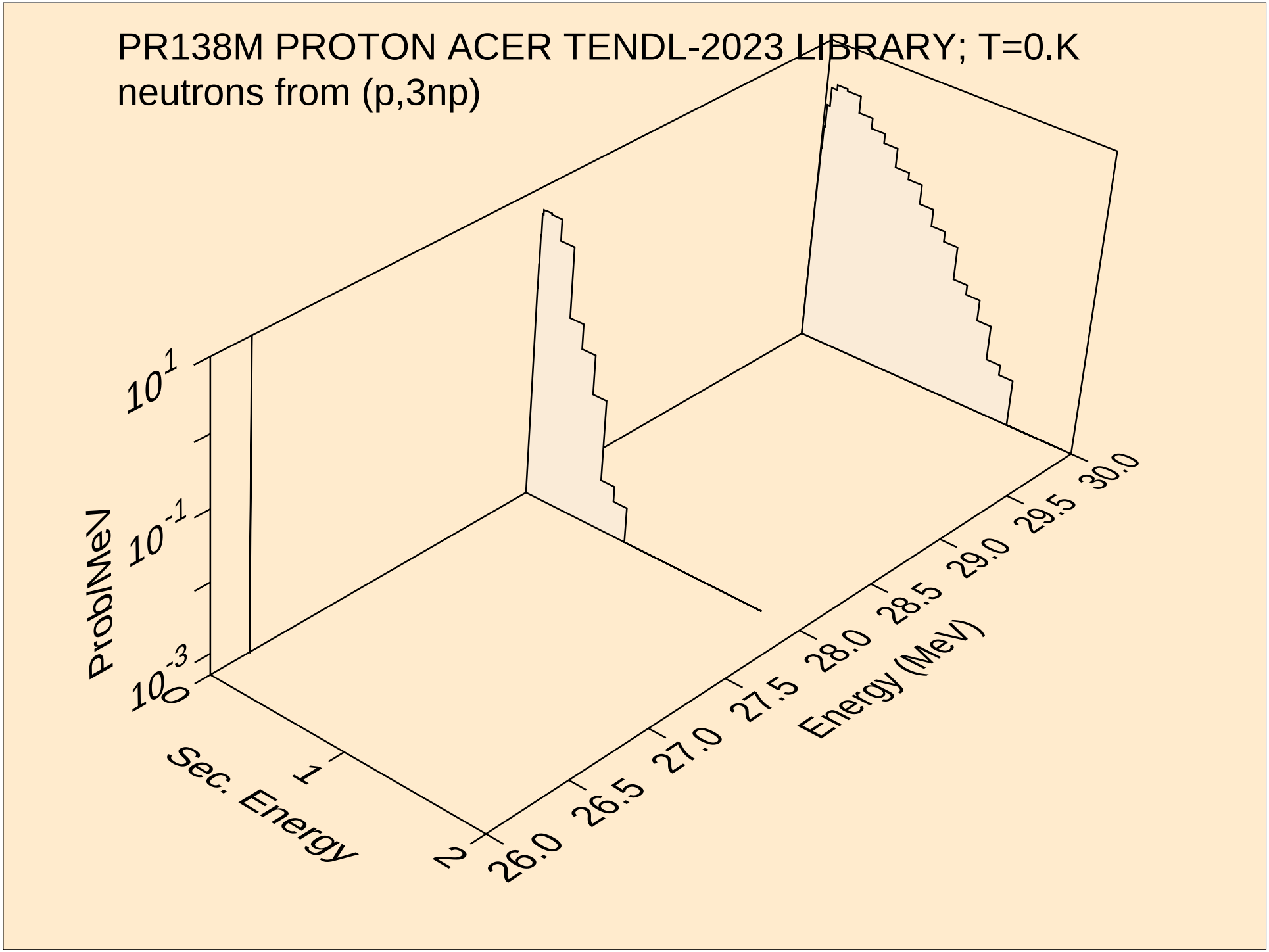

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (p,n*)2a
Prob/MeV
10-1
10-3
0
Sec. Energy
5
10
0
5
10
15
20
25
30
Energy (MeV)

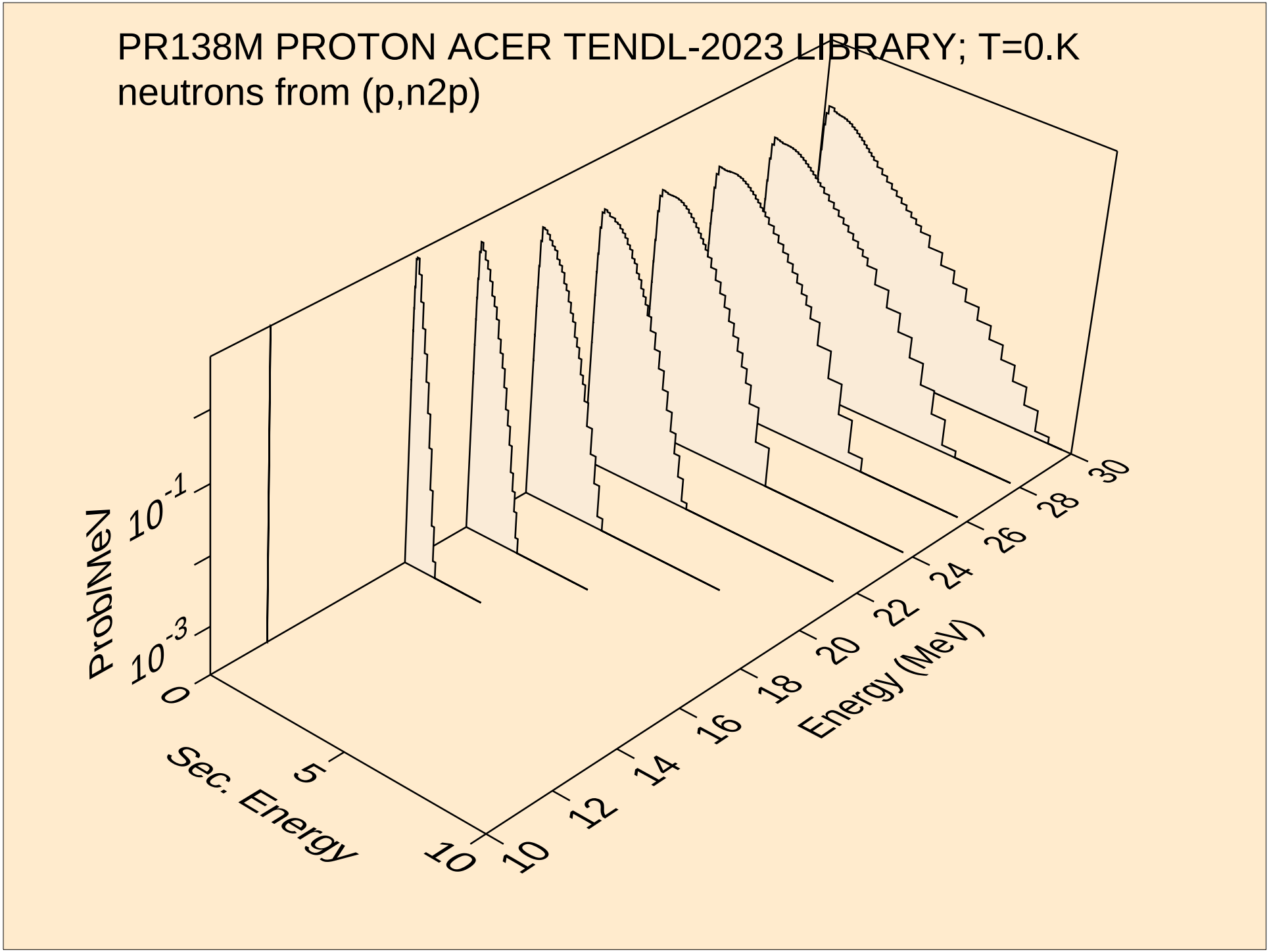

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (p,n*)d
Prob/MeV
10^1
10^-1
10^-3
0
2
4
Sec. Energy
14
16
18
20
22
24
26
28
30
Energy (MeV)

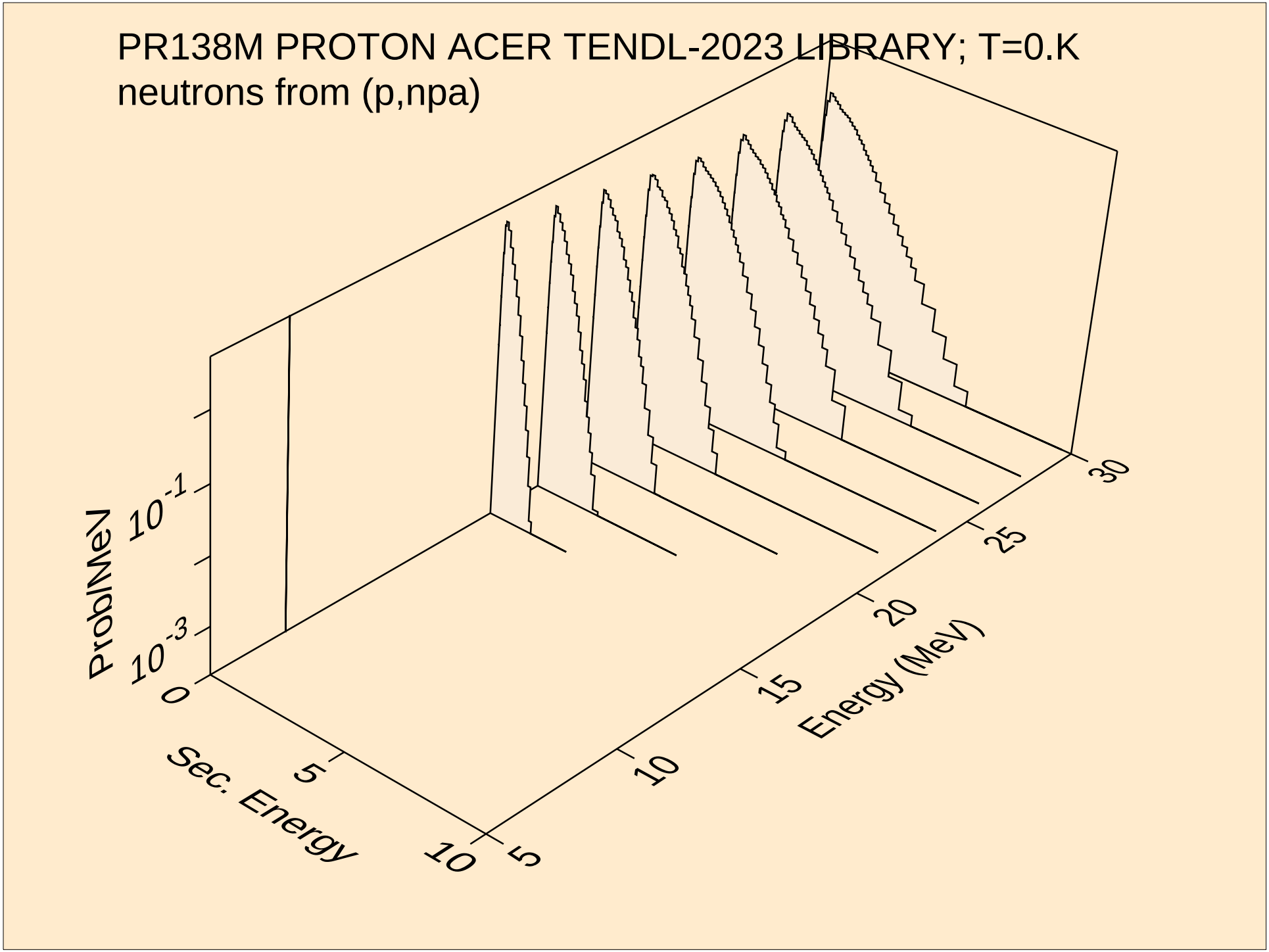

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (p,n*)t
Prob/MeV
10^{1}
10^{-1}
10^{-3}
0
Sec. Energy
2
4
16
18
20
22
24
26
28
30
Energy (MeV)

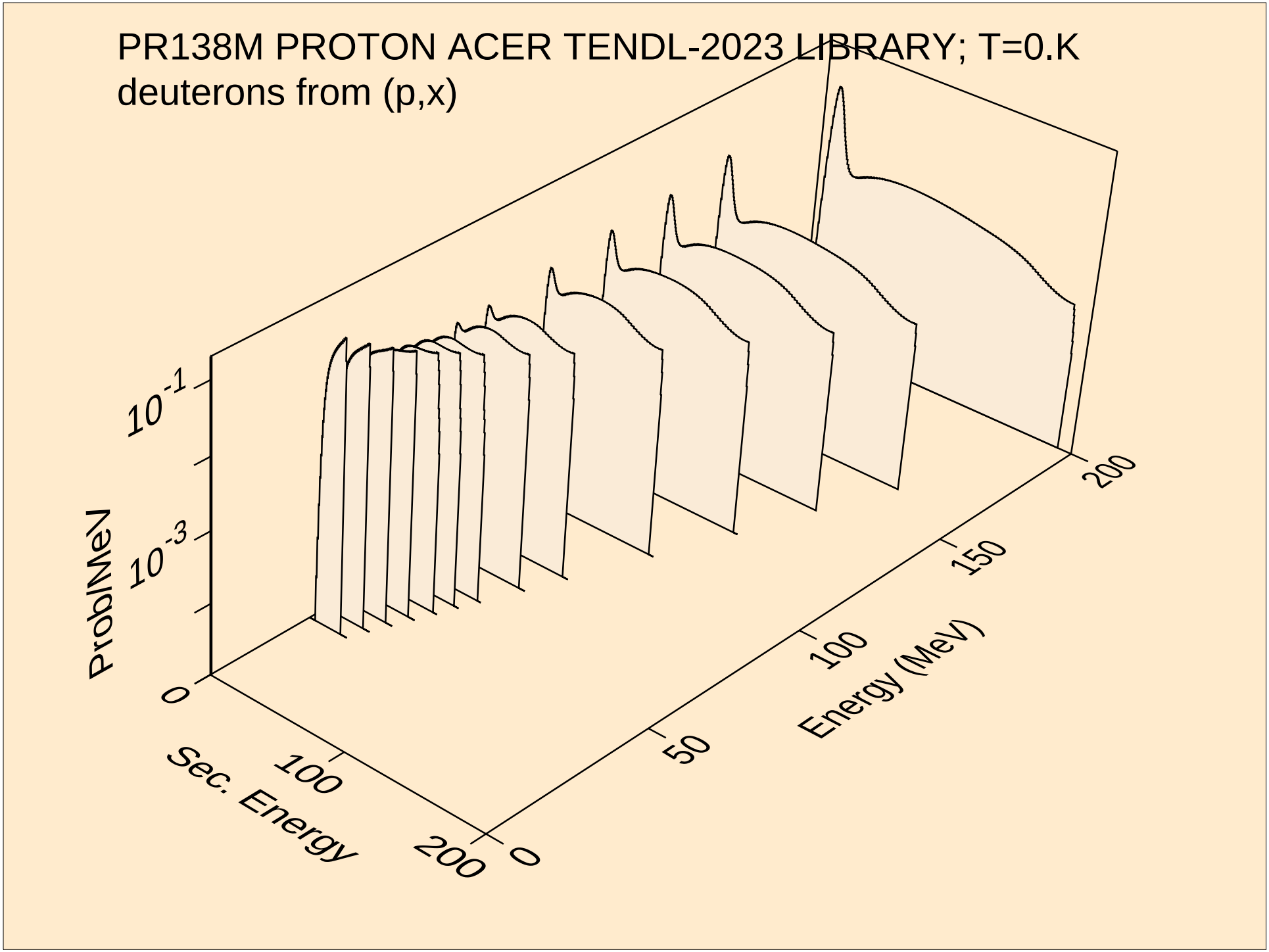

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (p,n*)he3
Prob/MeV
10-1
10-3
0
Sec. Energy
2
4
12
14
16
18
20
22
24
26
28
30
Energy (MeV)

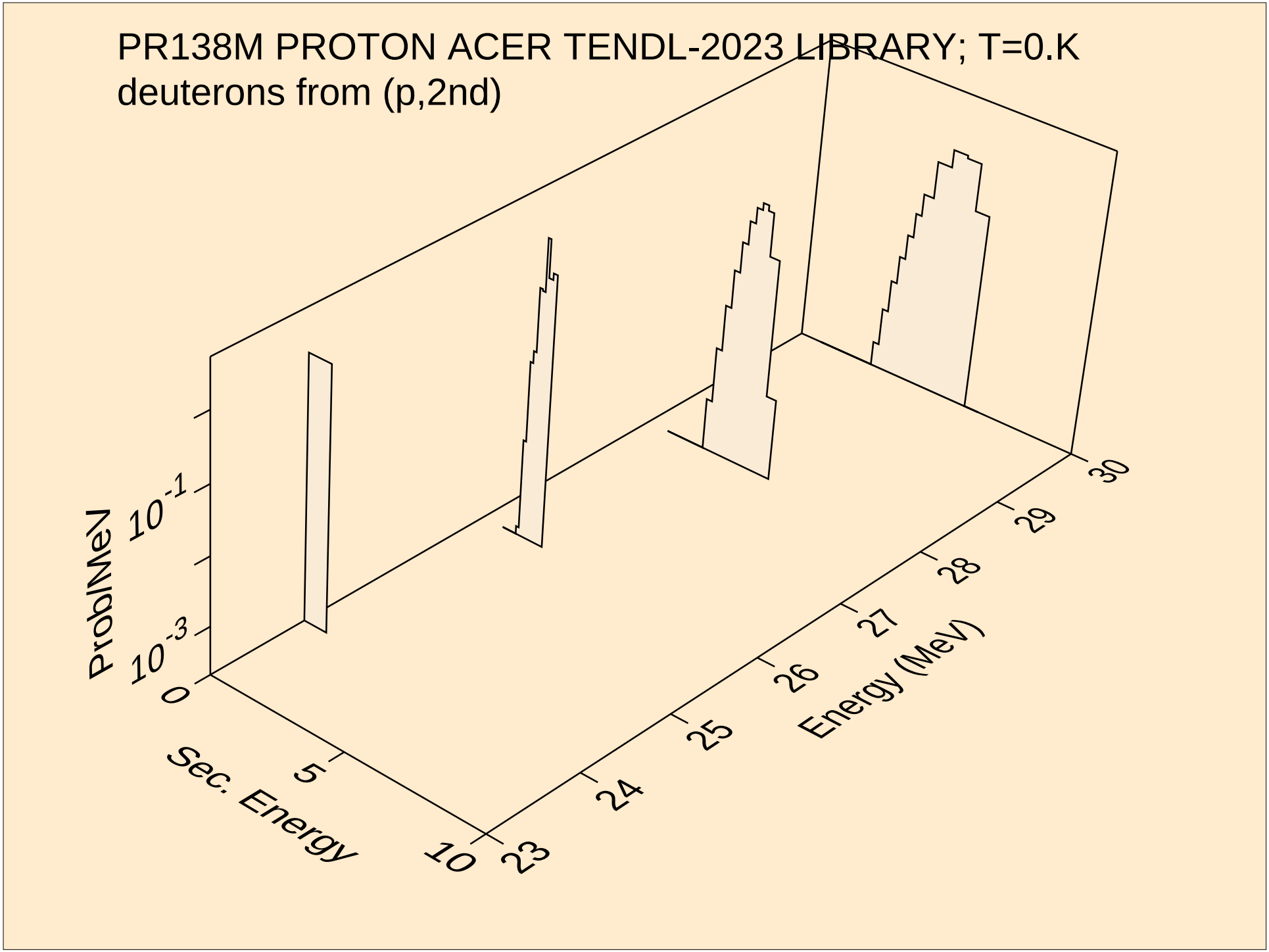

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (p,2np)
Prob/MeV
10^{1}
10^{-1}
10^{-3}
0
5
10
16
Sec. Energy
18
20
22
24
26
28
30
Energy (MeV)

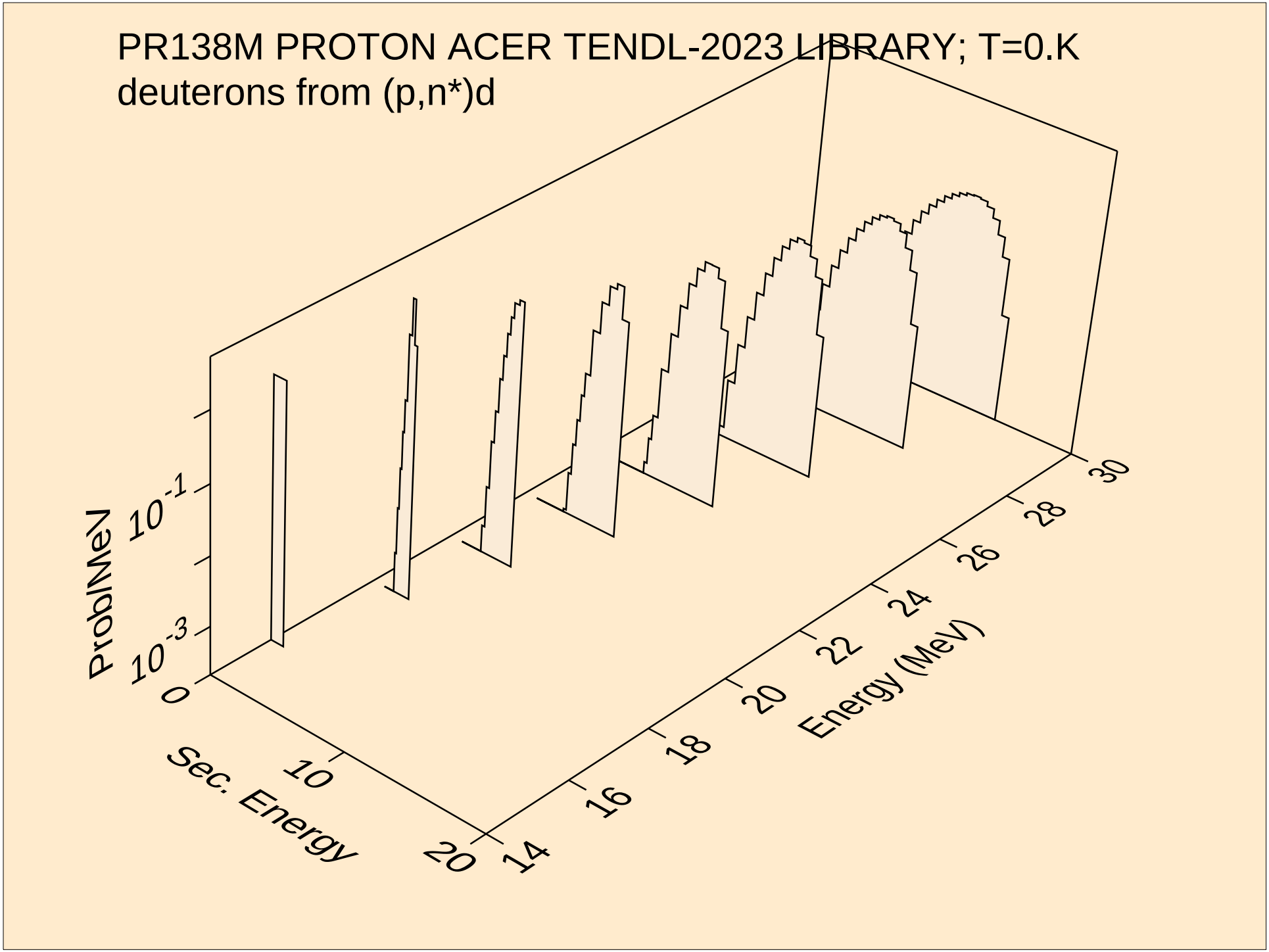

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (p,3np)
Prob/MeV
10^1
10^-1
10^-3
0
Sec. Energy
1
2
26.0
26.5
27.0
27.5
28.0
28.5
29.0
29.5
30.0
Energy (MeV)

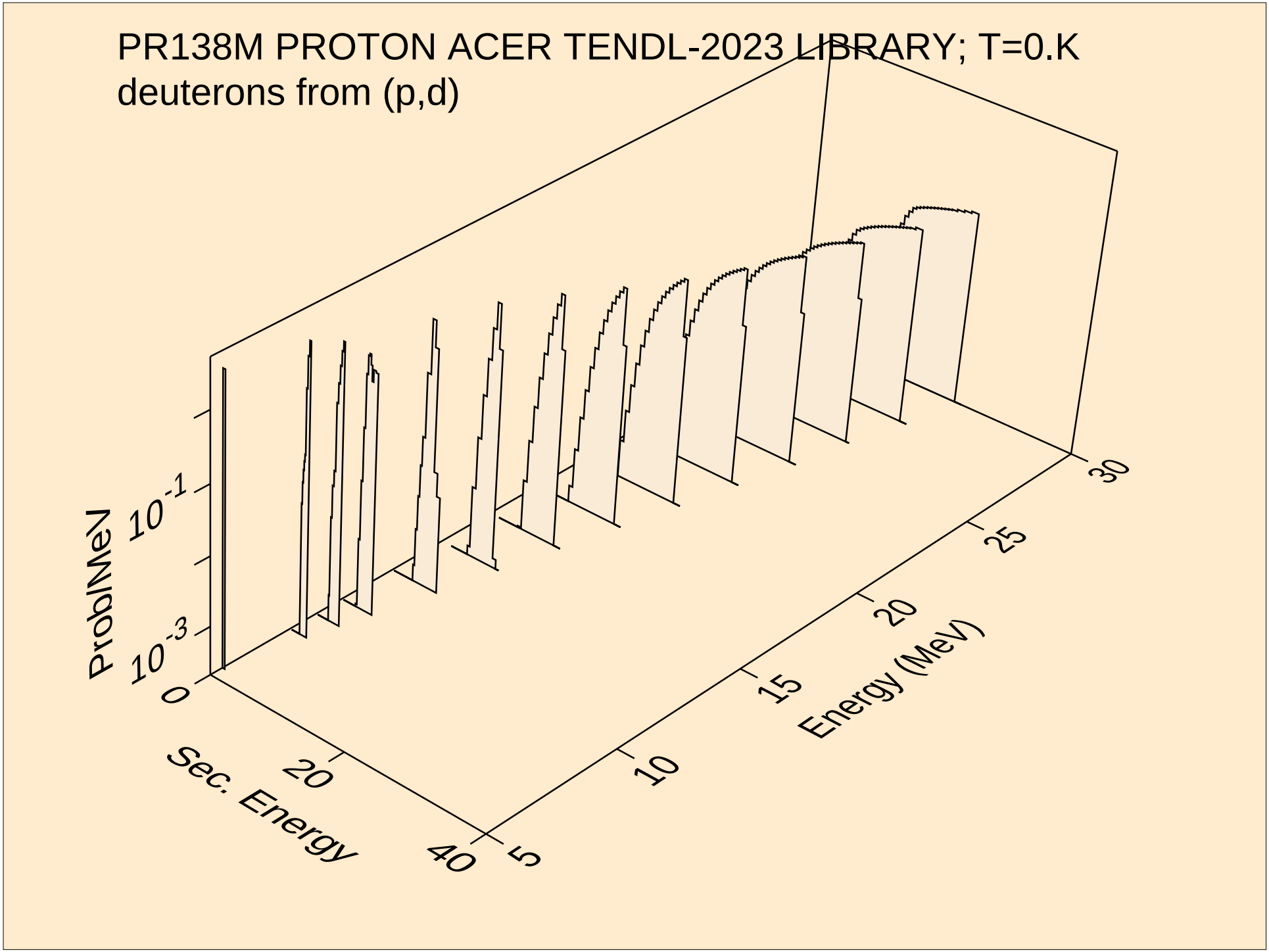

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (p,n2p)
Prob/MeV
10-1
10-3
0
Sec. Energy
5
10
Energy (MeV)
10
12
14
16
18
20
22
24
26
28
30

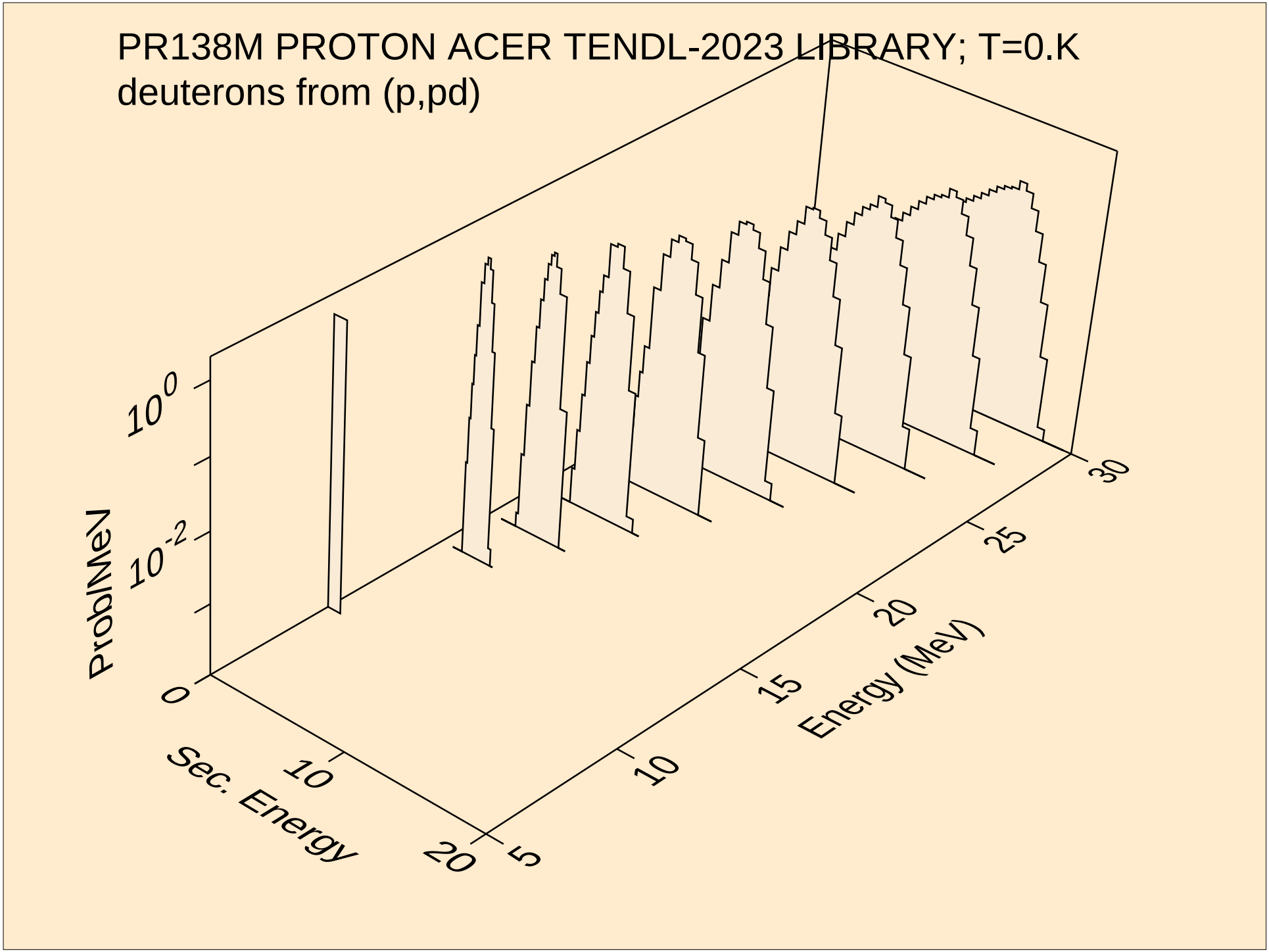

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (p,npa)
Prob/MeV
10-1
10-3
0
Sec. Energy
5
10
5
10
15
20
25
30
Energy (MeV)

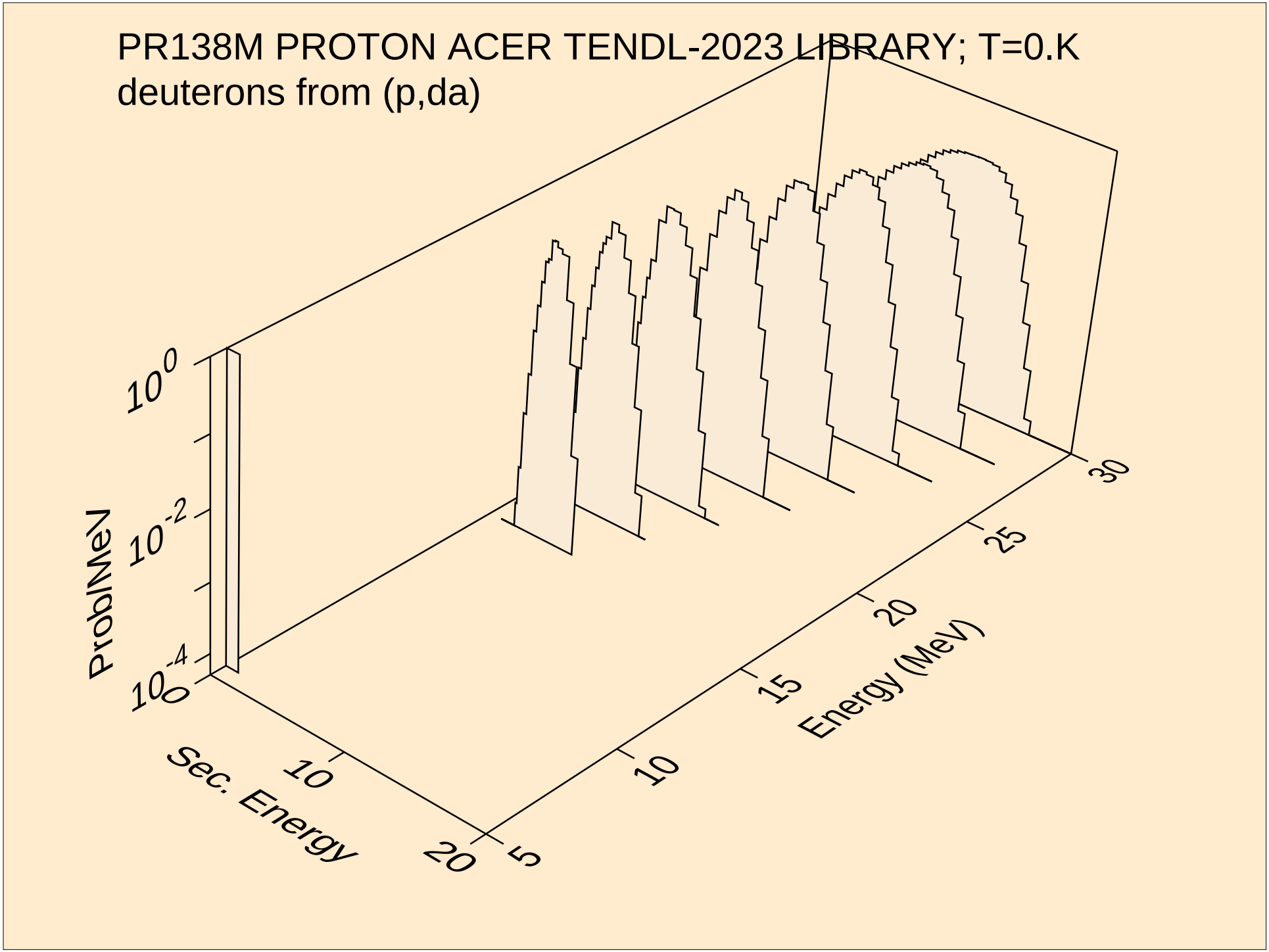

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (p,x)
Prob/MeV
10-1
10-3
0
Sec. Energy
100
200
0
50
100
150
200
Energy (MeV)

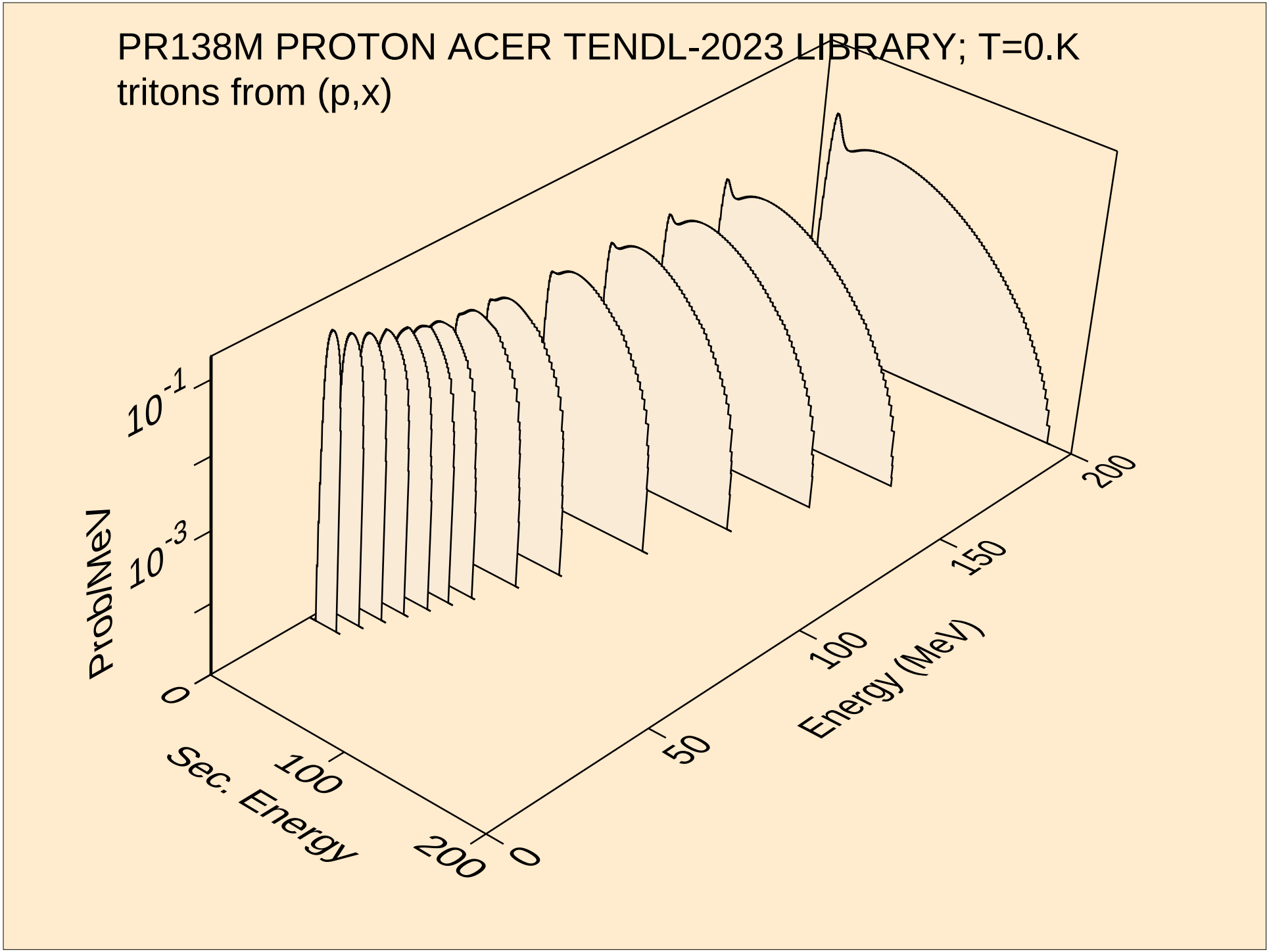

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (p,2nd)
Prob/MeV
10-1
10-3
0
Sec. Energy
5
10
23
24
25
26
27
28
29
30
Energy (MeV)

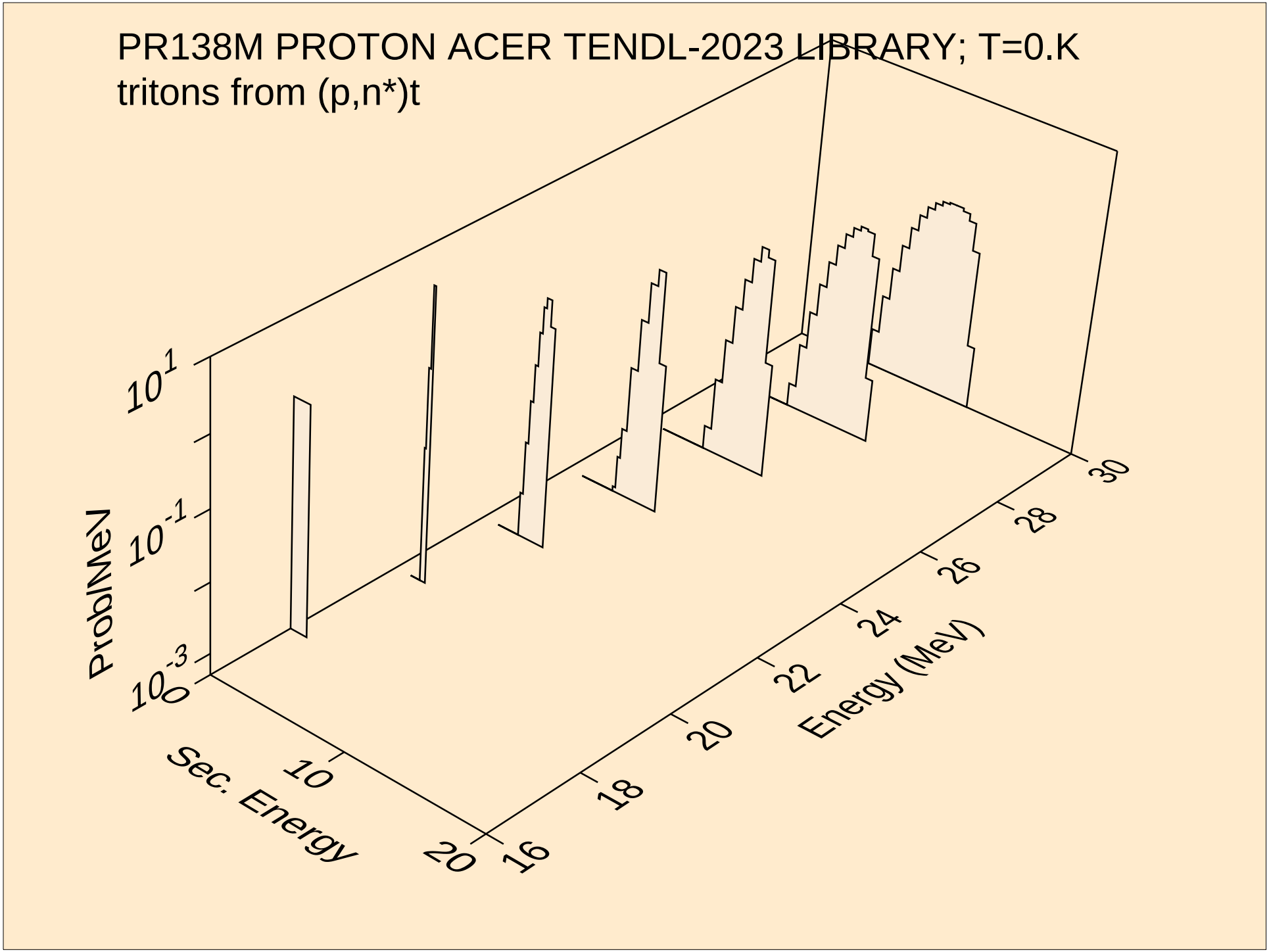

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (p,n*)d
Prob/MeV
10-1
10-3
0
Sec. Energy
10
20
14
16
18
20
22
24
26
28
30
Energy (MeV)

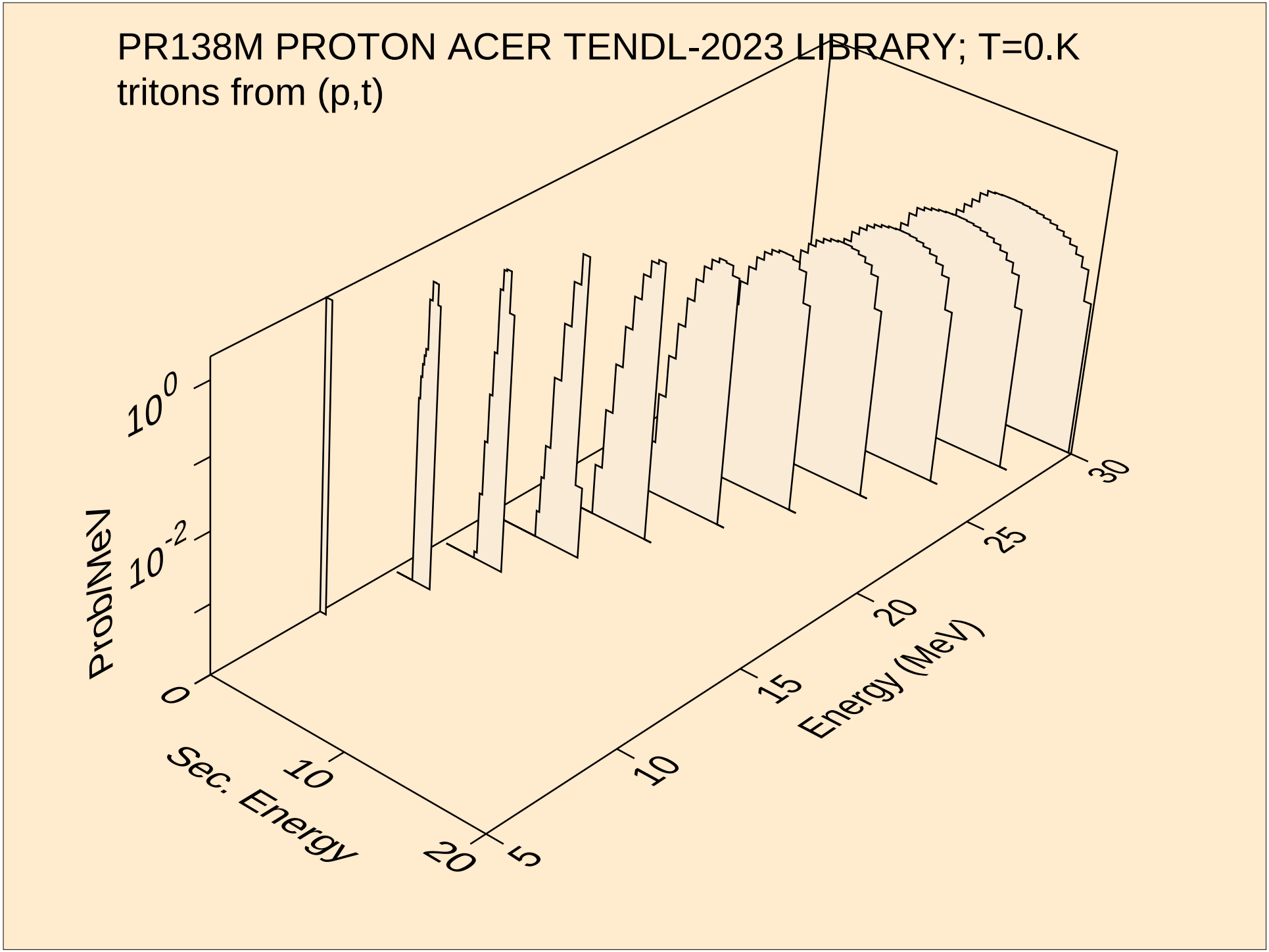

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (p,d)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
5
10
15
20
25
30
Energy (MeV)

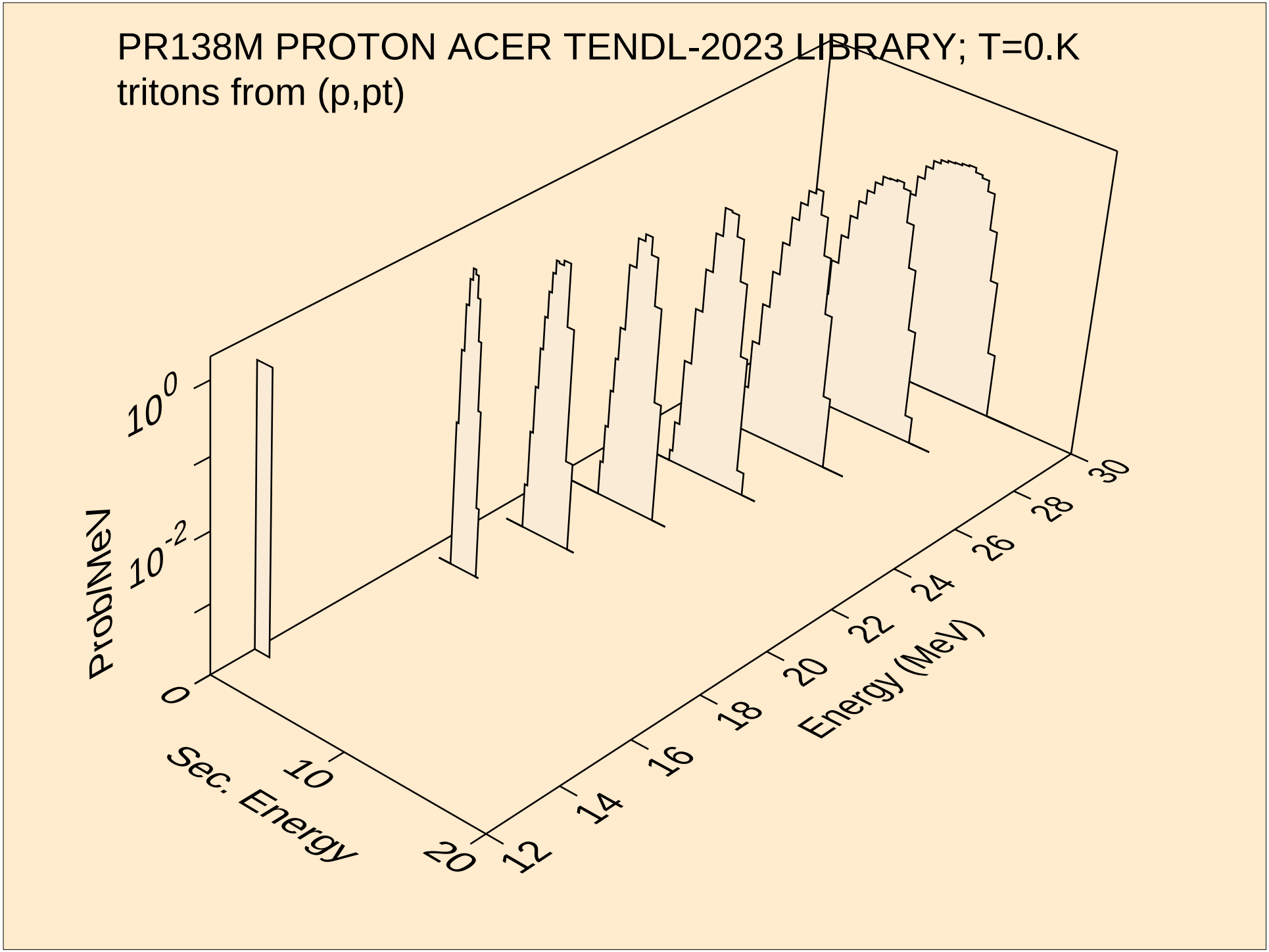

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (p,pd)
Prob/MeV
10^0
10^-2
0
Sec. Energy
10
20
5
10
15
20
25
30
Energy (MeV)

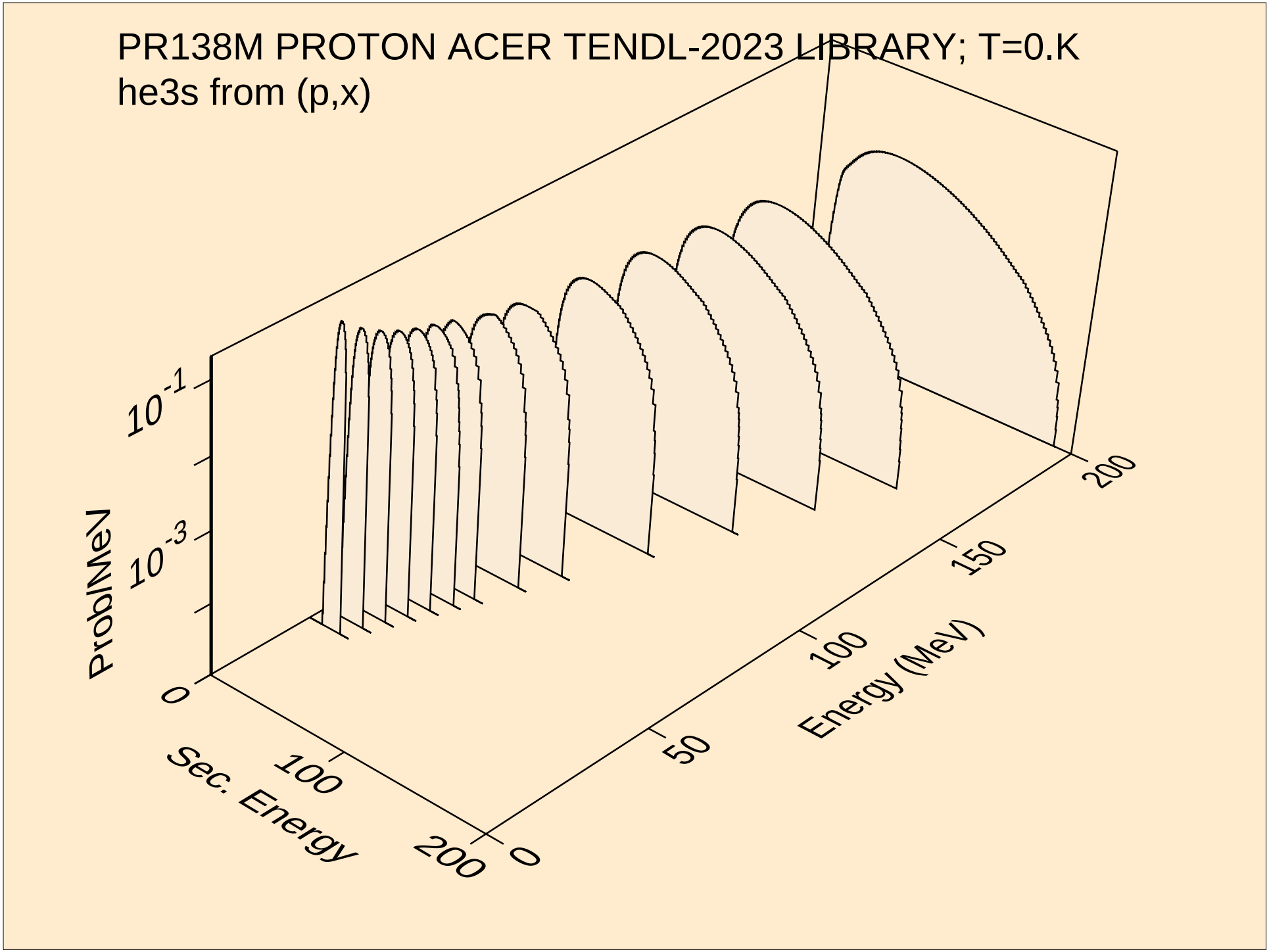

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (p,da)
Prob/MeV
10^0
10^-2
10^-4
0
Sec. Energy
10
20
5
10
15
20
25
30
Energy (MeV)

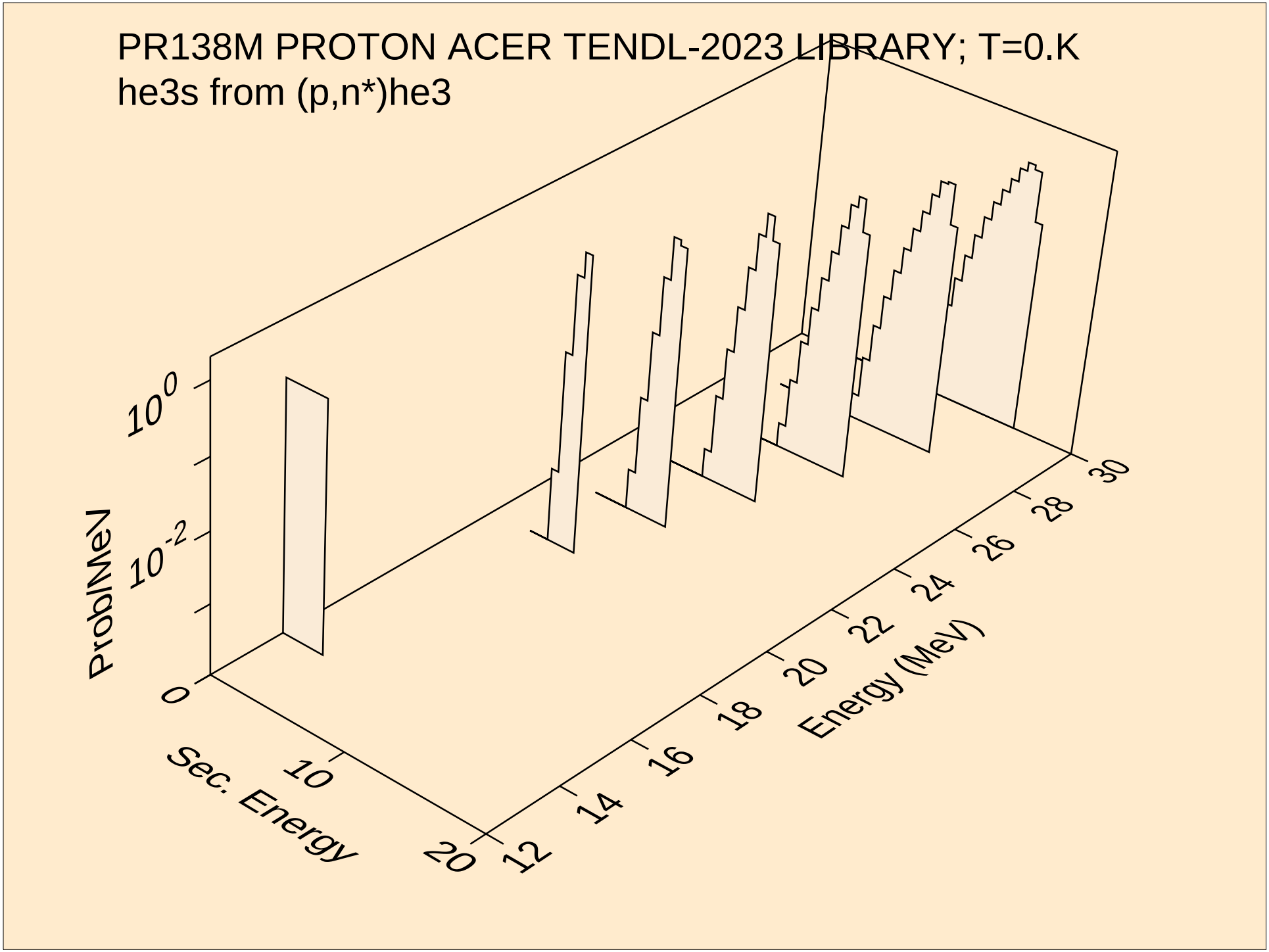

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
tritons from (p,x)
Prob/MeV
10-1
10-3
0
Sec. Energy
100
200
0
50
100
150
200
Energy (MeV)

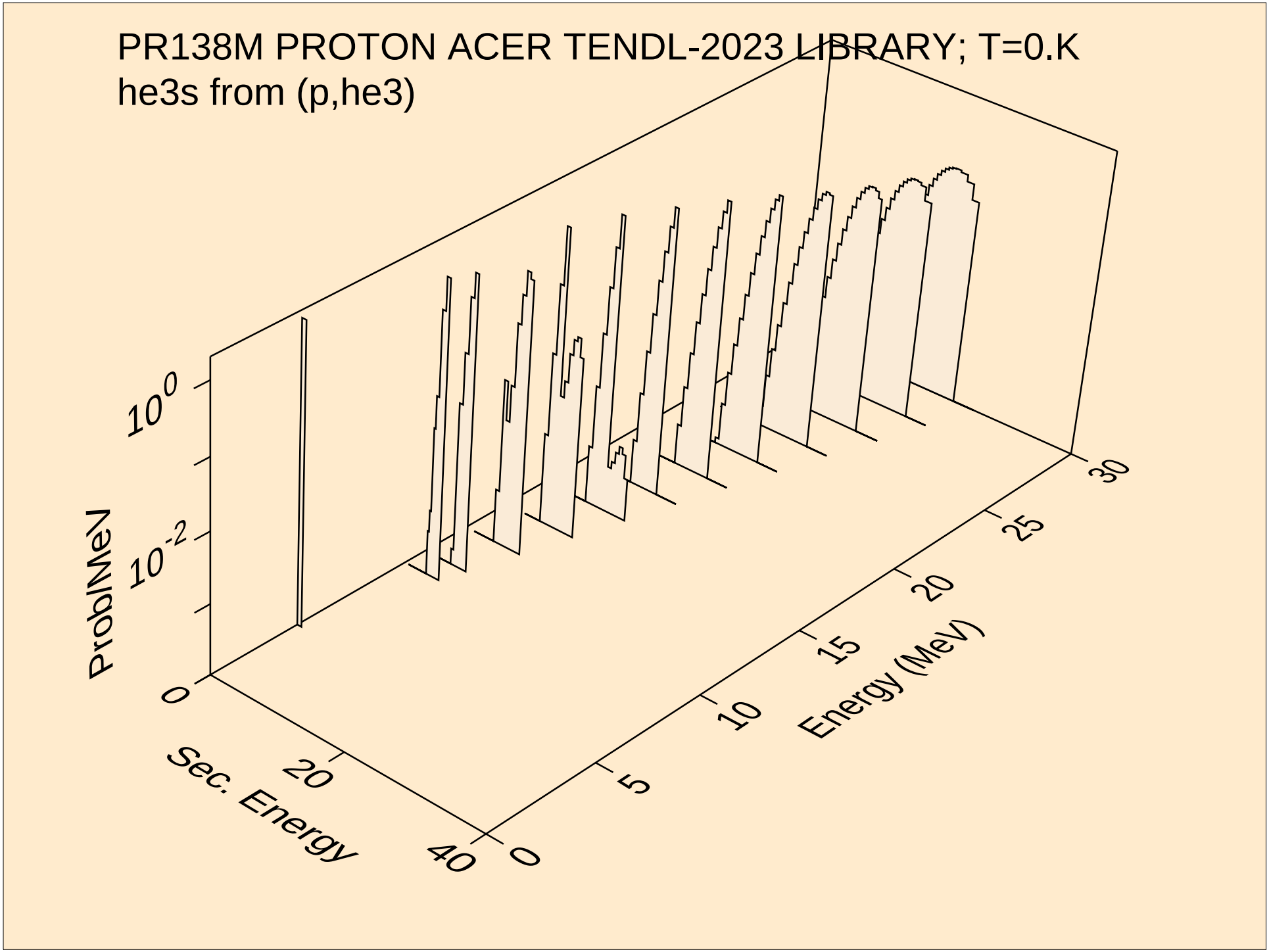

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
tritons from (p,n*)t
Prob/MeV
10^1
10^-1
10^-3
0
Sec. Energy
10
20
Energy (MeV)
16
18
20
22
24
26
28
30

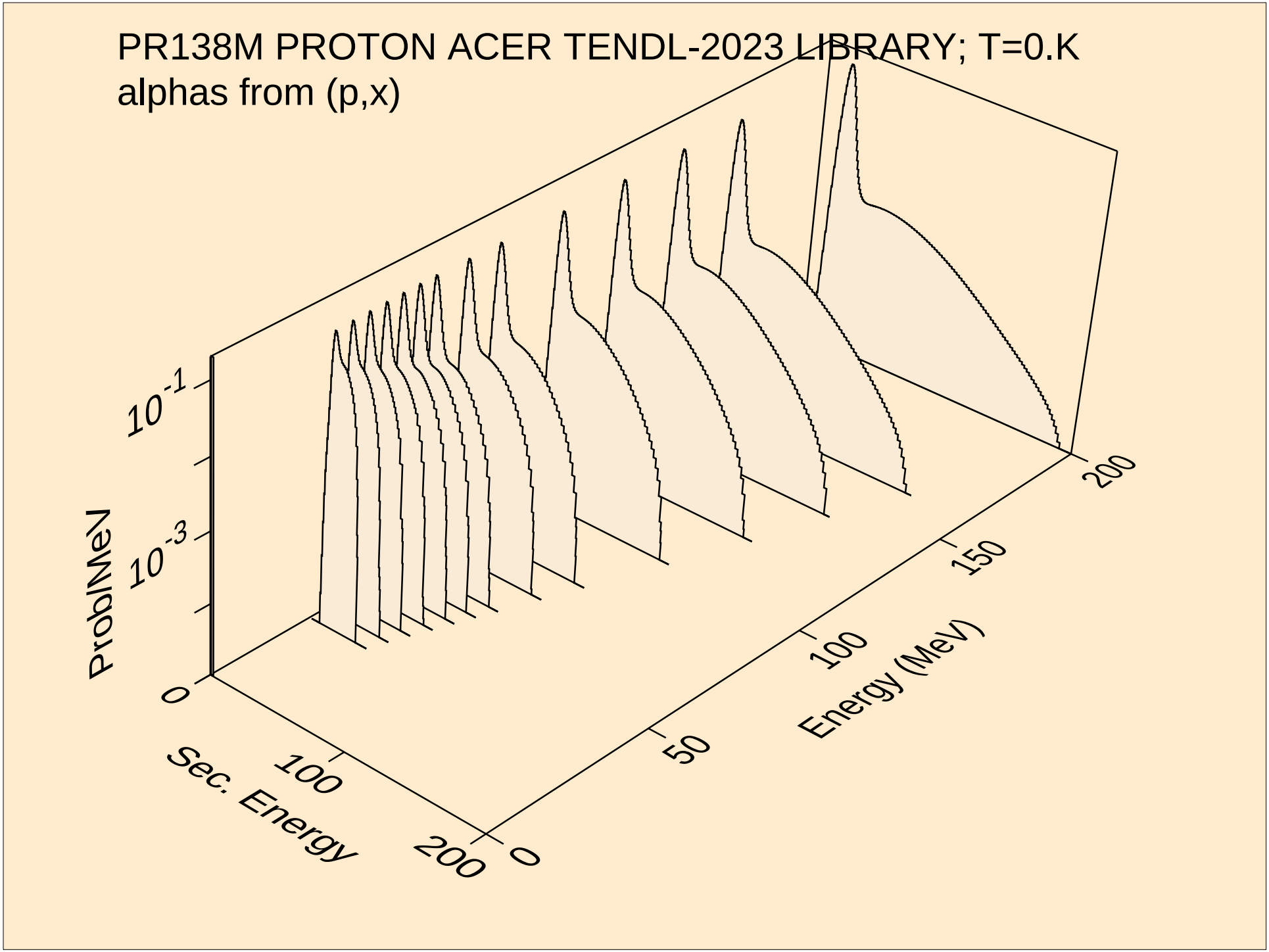

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
tritons from (p,t)
Prob/MeV
10^0
10^-2
0
Sec. Energy
10
20
5
10
15
20
25
30
Energy (MeV)

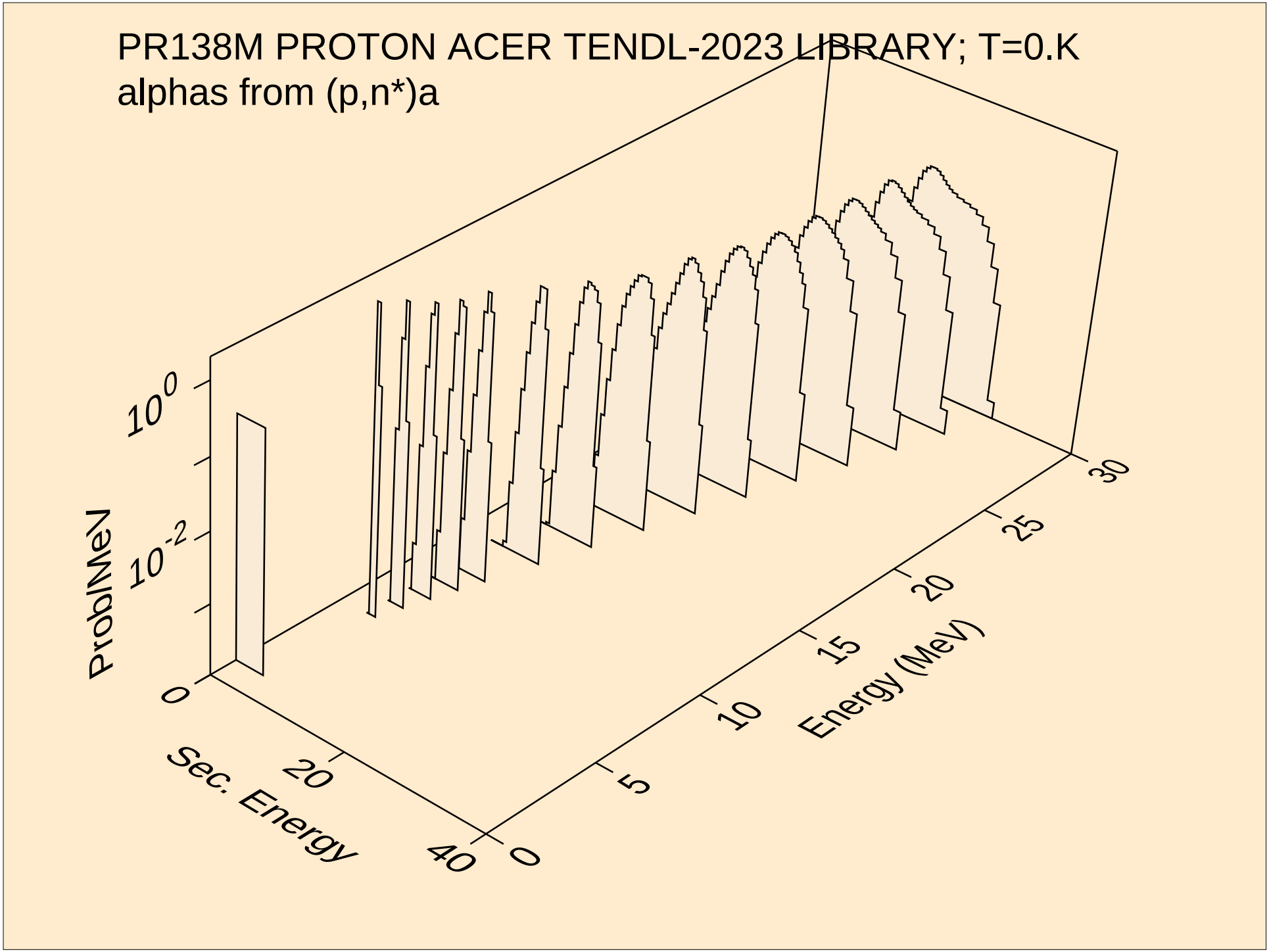

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
tritons from (p,pt)
Prob/MeV
10^0
10^-2
0
Sec. Energy
10
20
12
14
16
18
20
22
24
26
28
30
Energy (MeV)

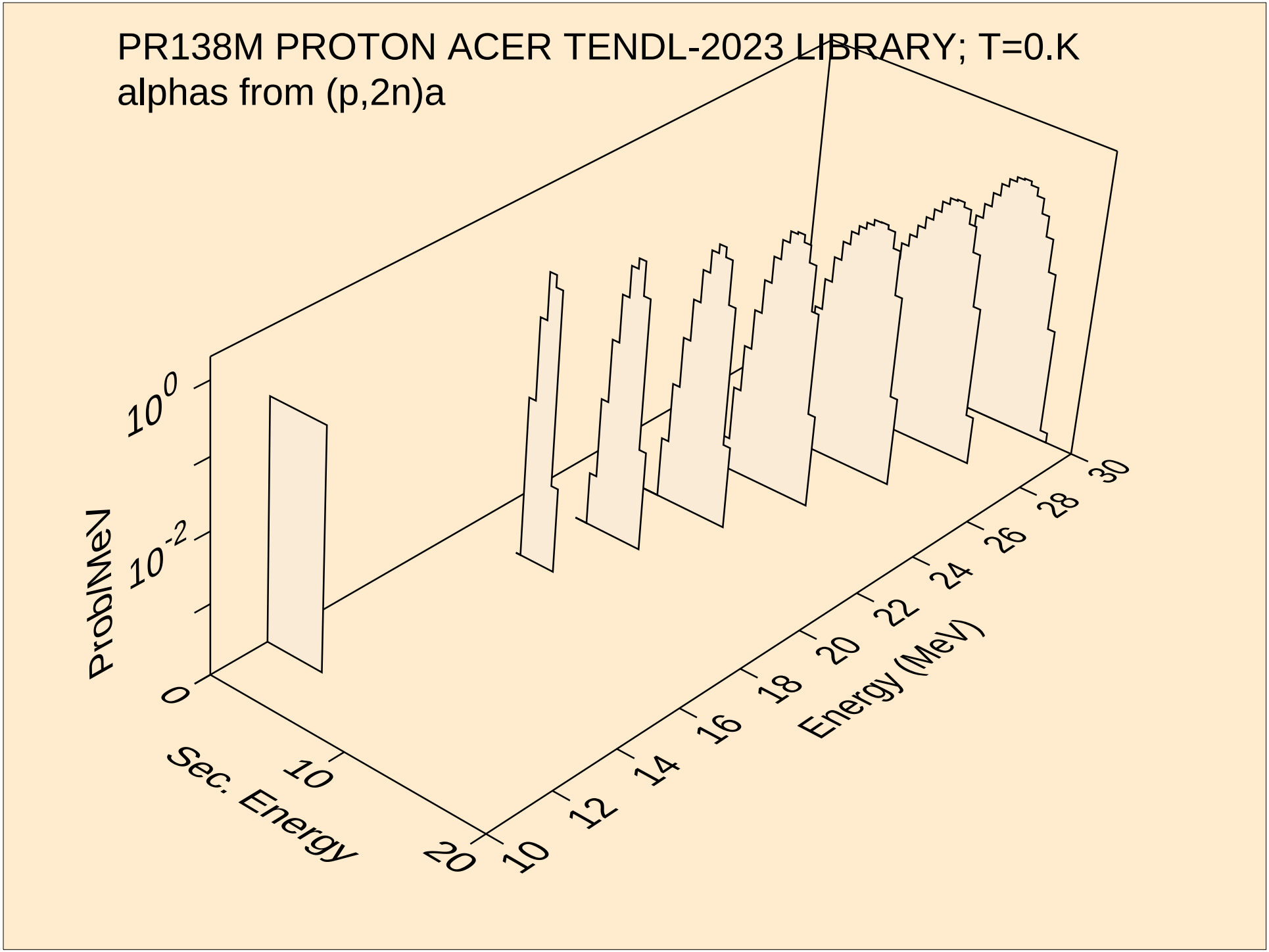

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
he3s from (p,x)
Prob/MeV
10-1
10-3
0
Sec. Energy
100
200
0
50
100
150
200
Energy (MeV)

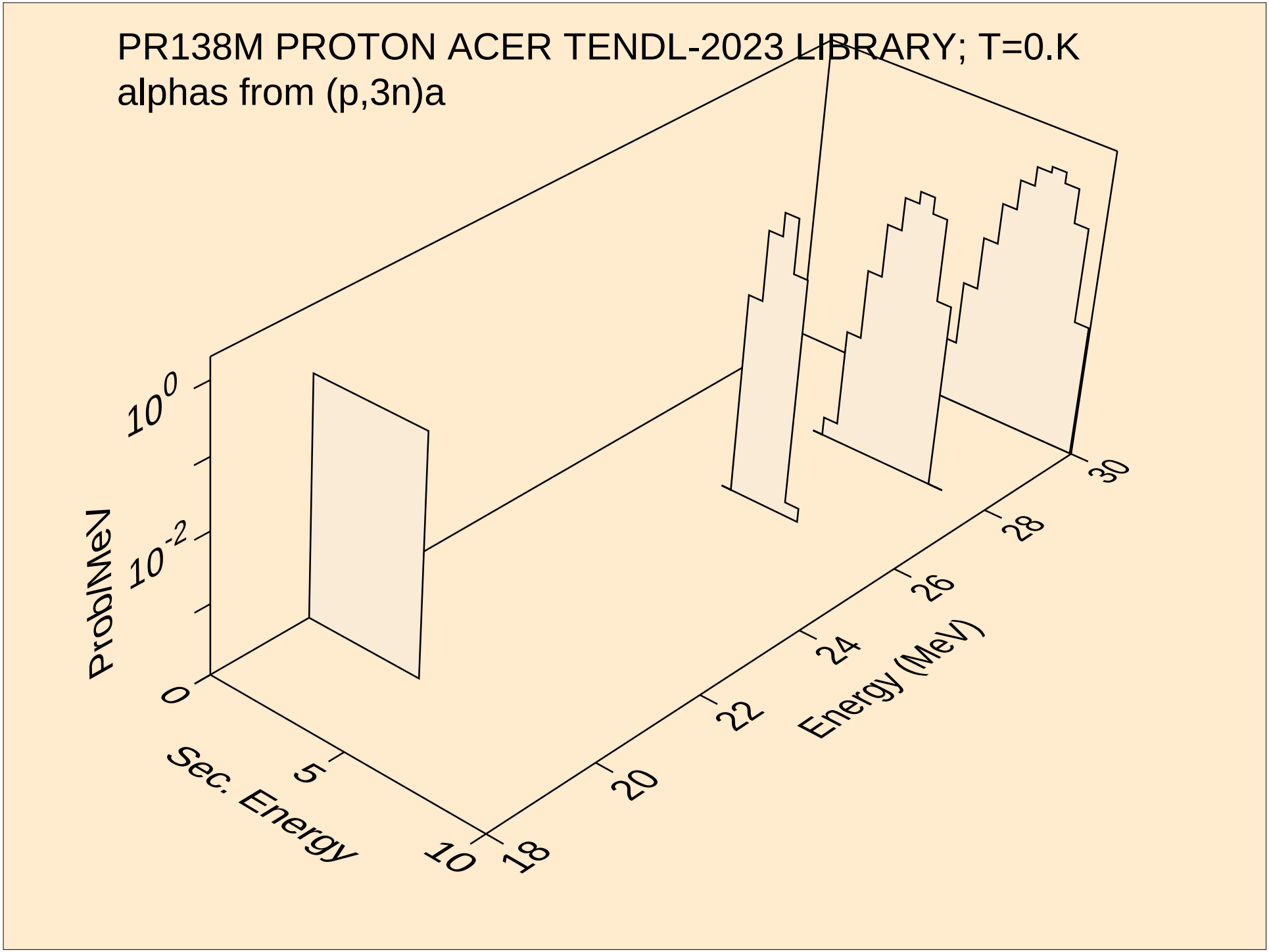

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
he3s from (p,n*)he3
Prob/MeV
10^{0}
10^{-2}
0
Sec. Energy
10
20
Energy (MeV)
12
14
16
18
20
22
24
26
28
30

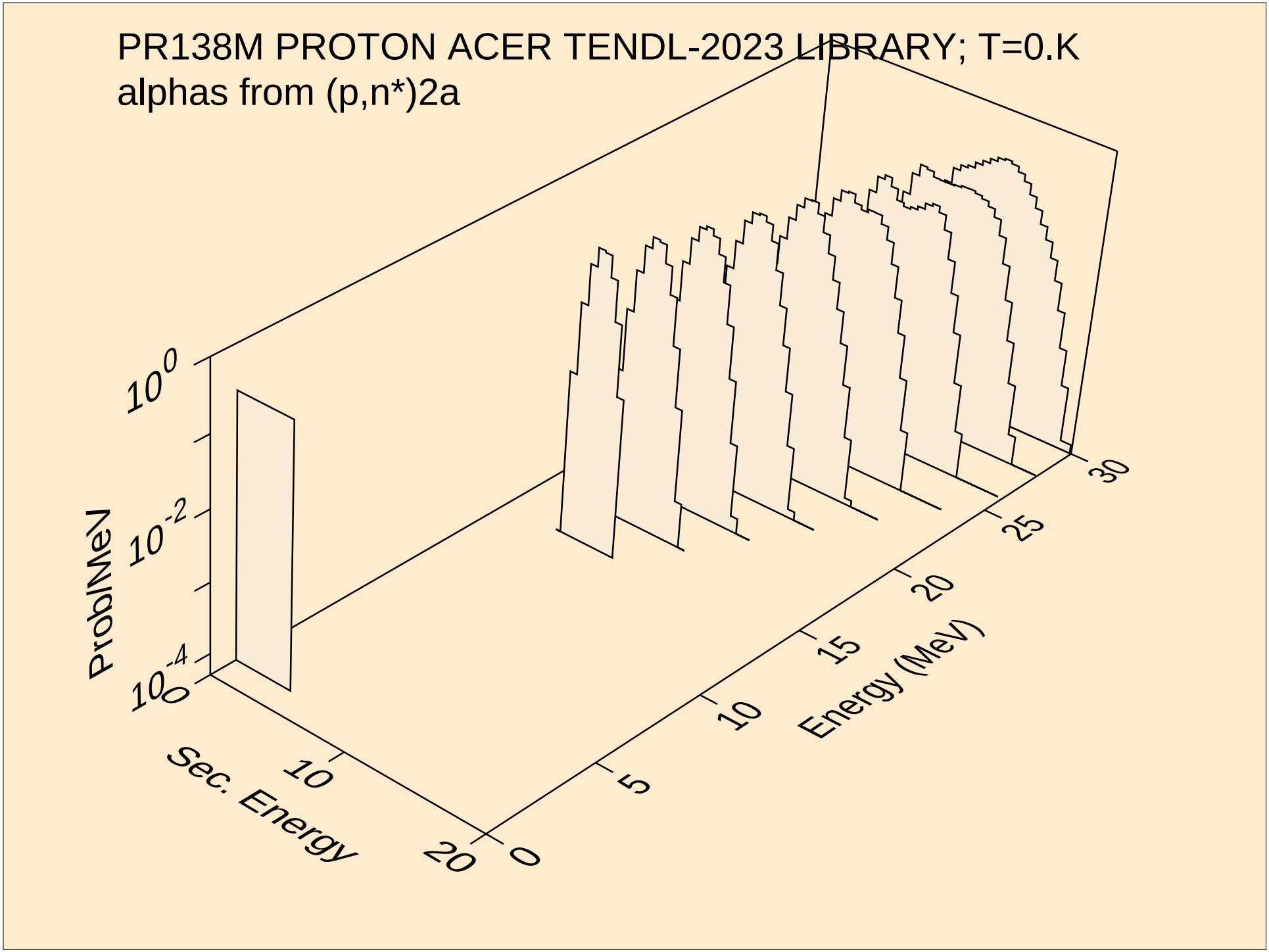

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
he3s from (p,he3)
Prob/MeV
10^0
10^-2
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)

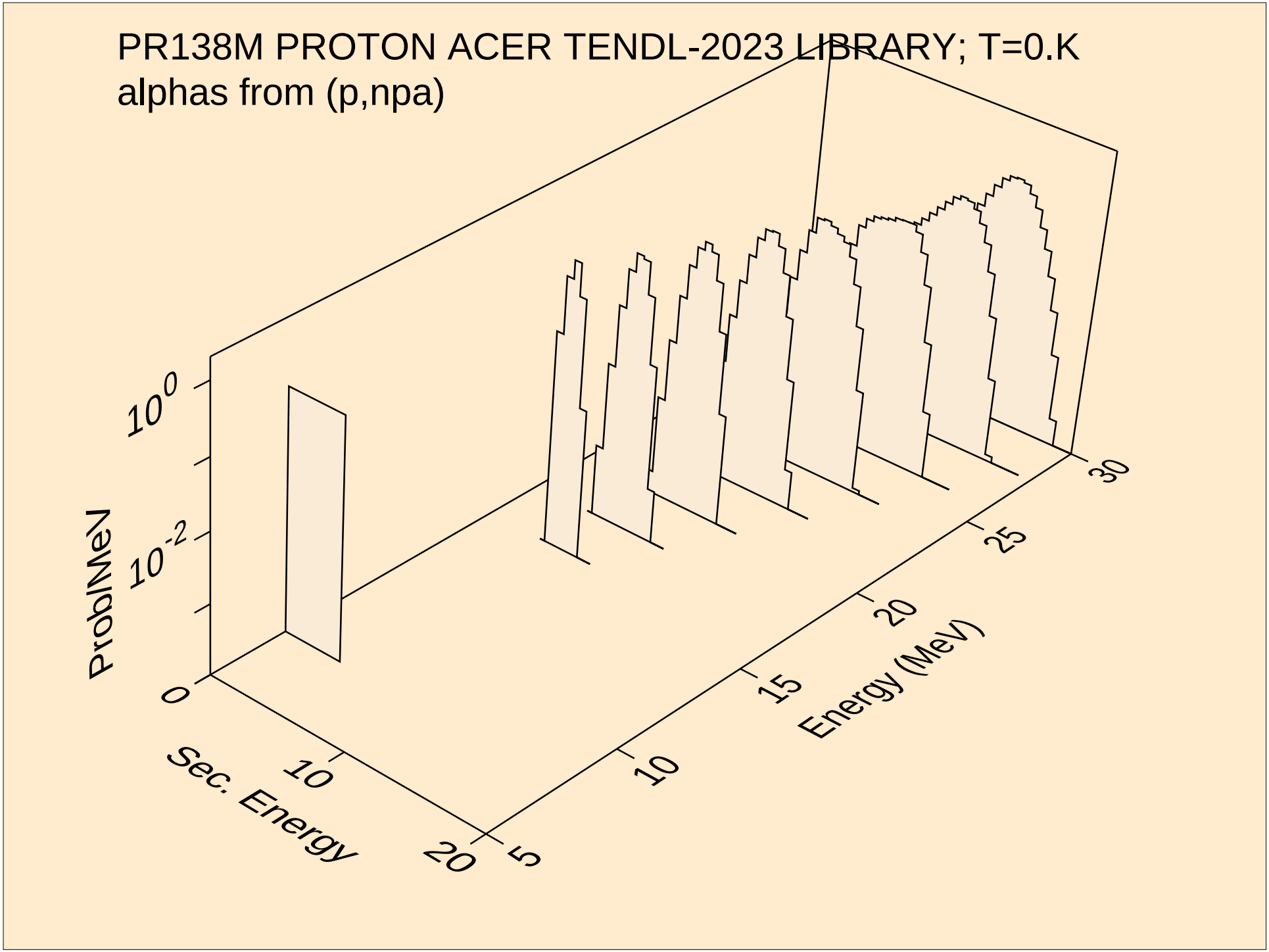

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (p,x)
Prob/MeV
10-1
10-3
0
Sec. Energy
100
200
0
50
100
150
200
Energy (MeV)

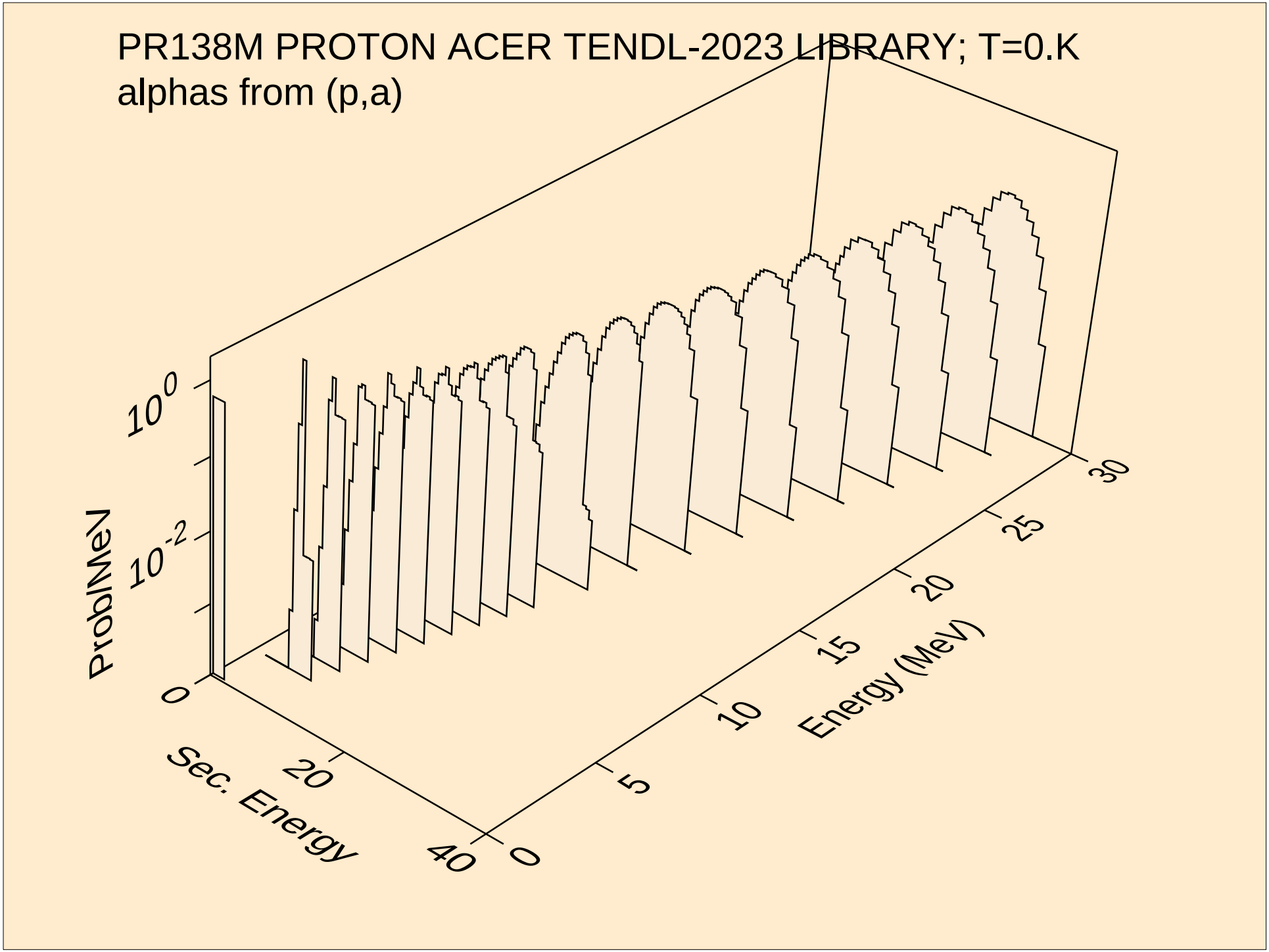

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (p,n*)a
Prob/MeV
10^0
10^-2
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)

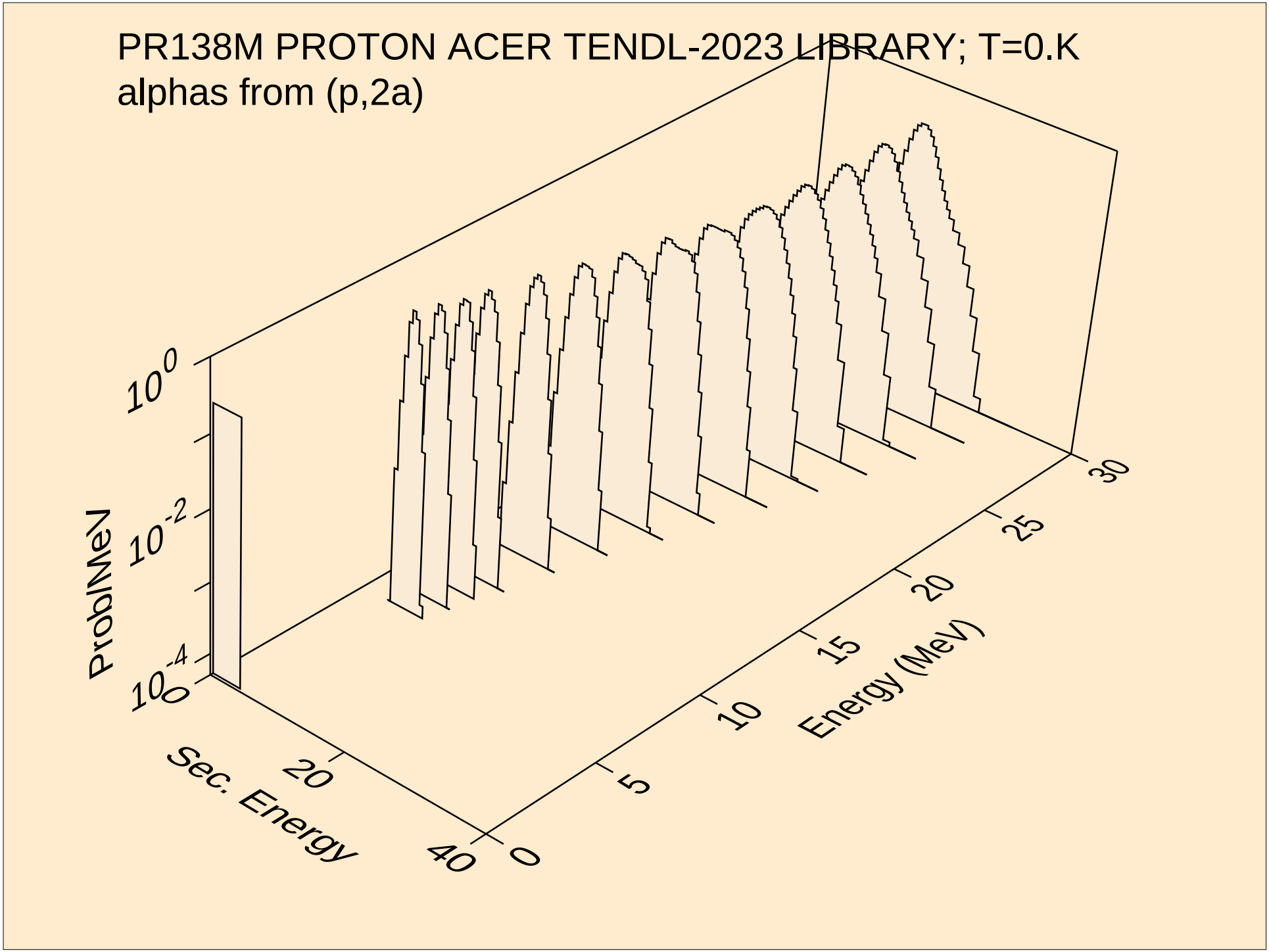

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (p,2n)a
Prob/MeV
10^{0}
10^{-2}
0
Sec. Energy
10
20
Energy (MeV)
10
12
14
16
18
20
22
24
26
28
30

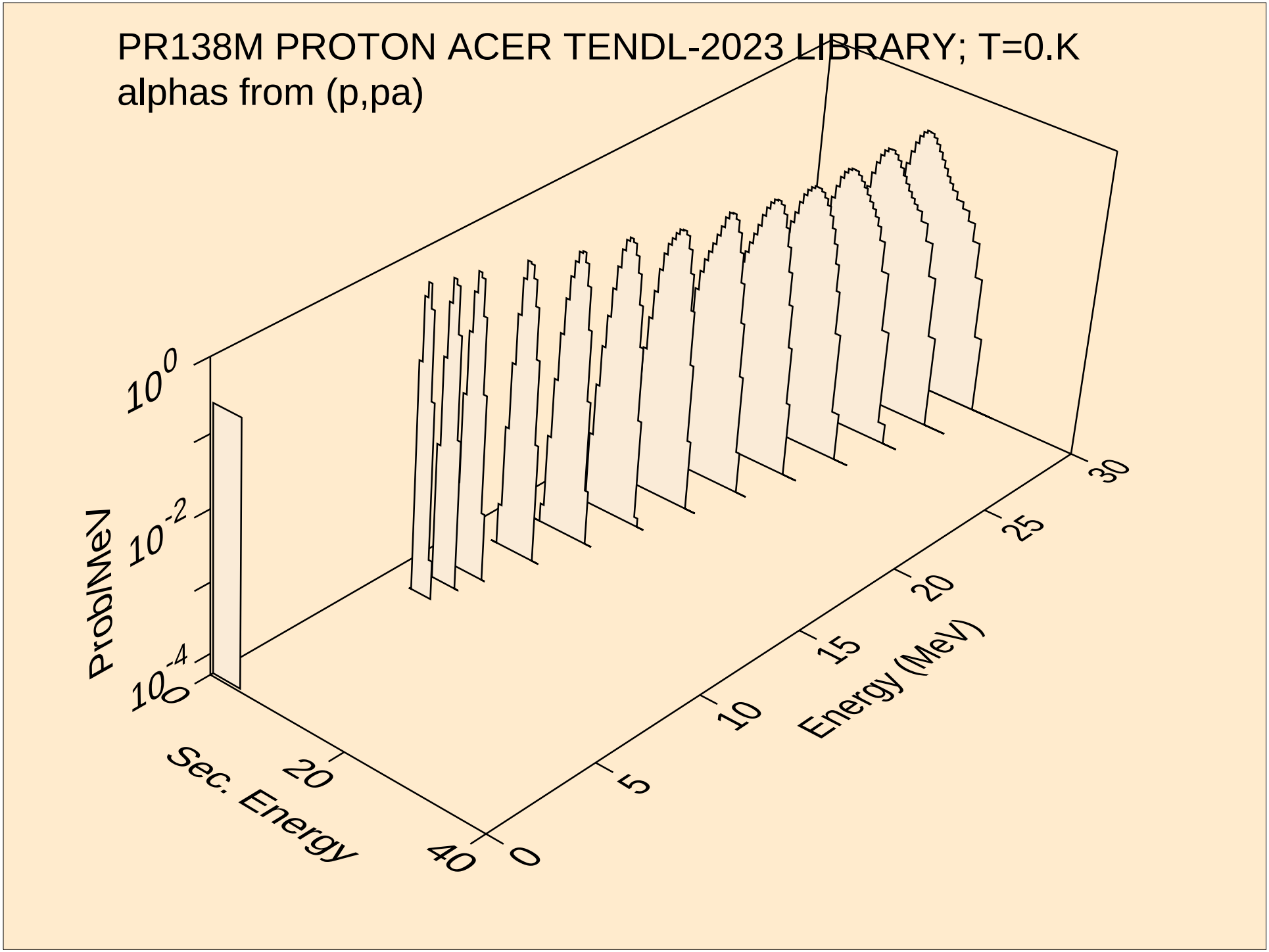

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (p,3n)a
Prob/MeV
10^0
10^-2
0
Sec. Energy
5
10
18
20
22
24
26
28
30
Energy (MeV)

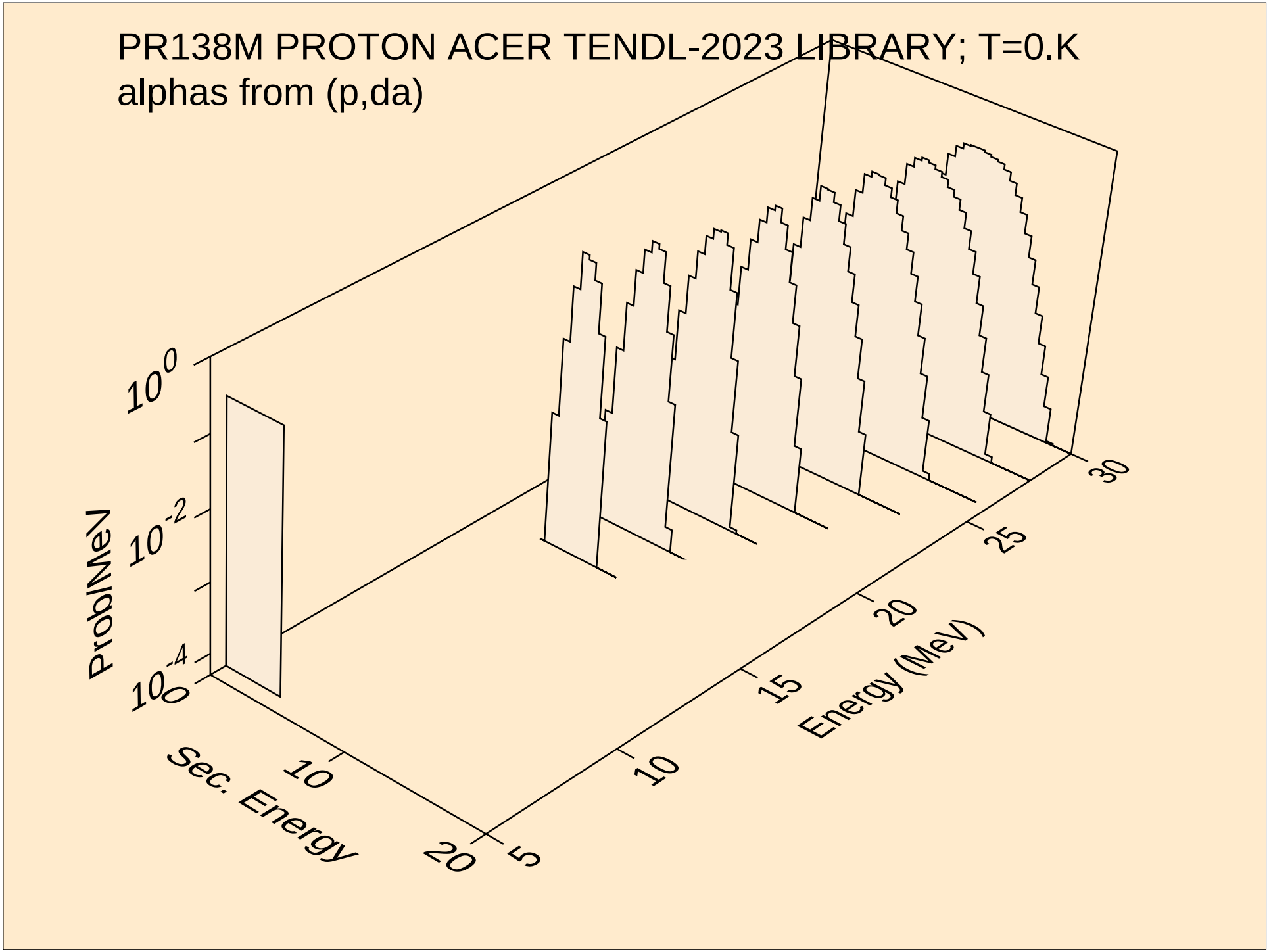

PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (p,n*)2a
Prob/MeV
10^0
10^-2
10^-4
0
10
20
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)


PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (p,npa)
Prob/MeV
10^{0}
10^{-2}
0
Sec. Energy
10
20
5
10
15
20
25
30
Energy (MeV)


PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (p,a)
Prob/MeV
10^0
10^-2
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)


PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (p,2a)
Prob/MeV
10^0
10^-2
10^-4
0
20
40
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)


PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (p,pa)
Prob/MeV
10^{0}
10^{-2}
10^{-4}
0
20
40
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)


PR138M PROTON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (p,da)
Prob/MeV
10^0
10^-2
10^-4
0
Sec. Energy
10
20
5
10
15
20
25
30
Energy (MeV)