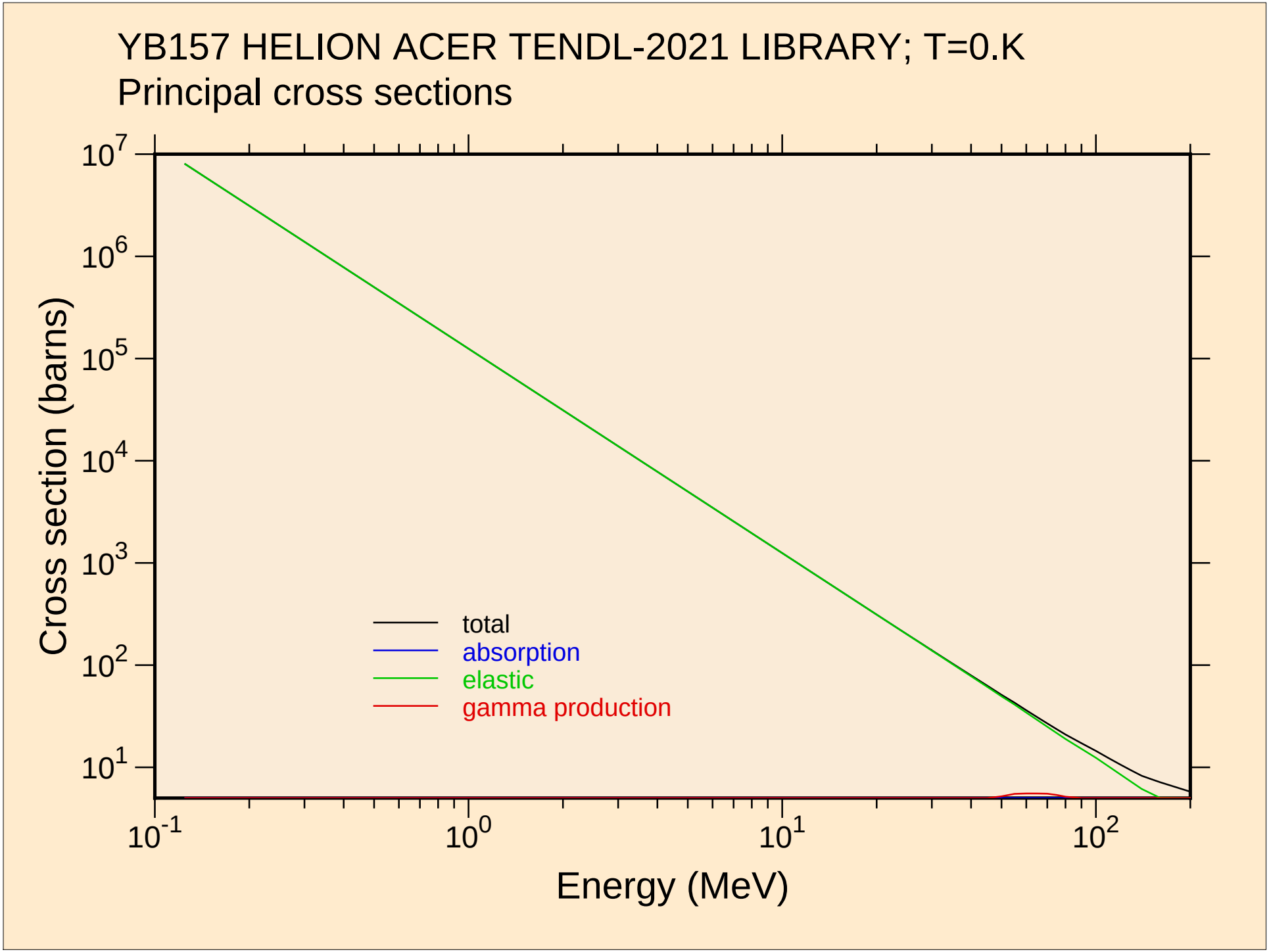
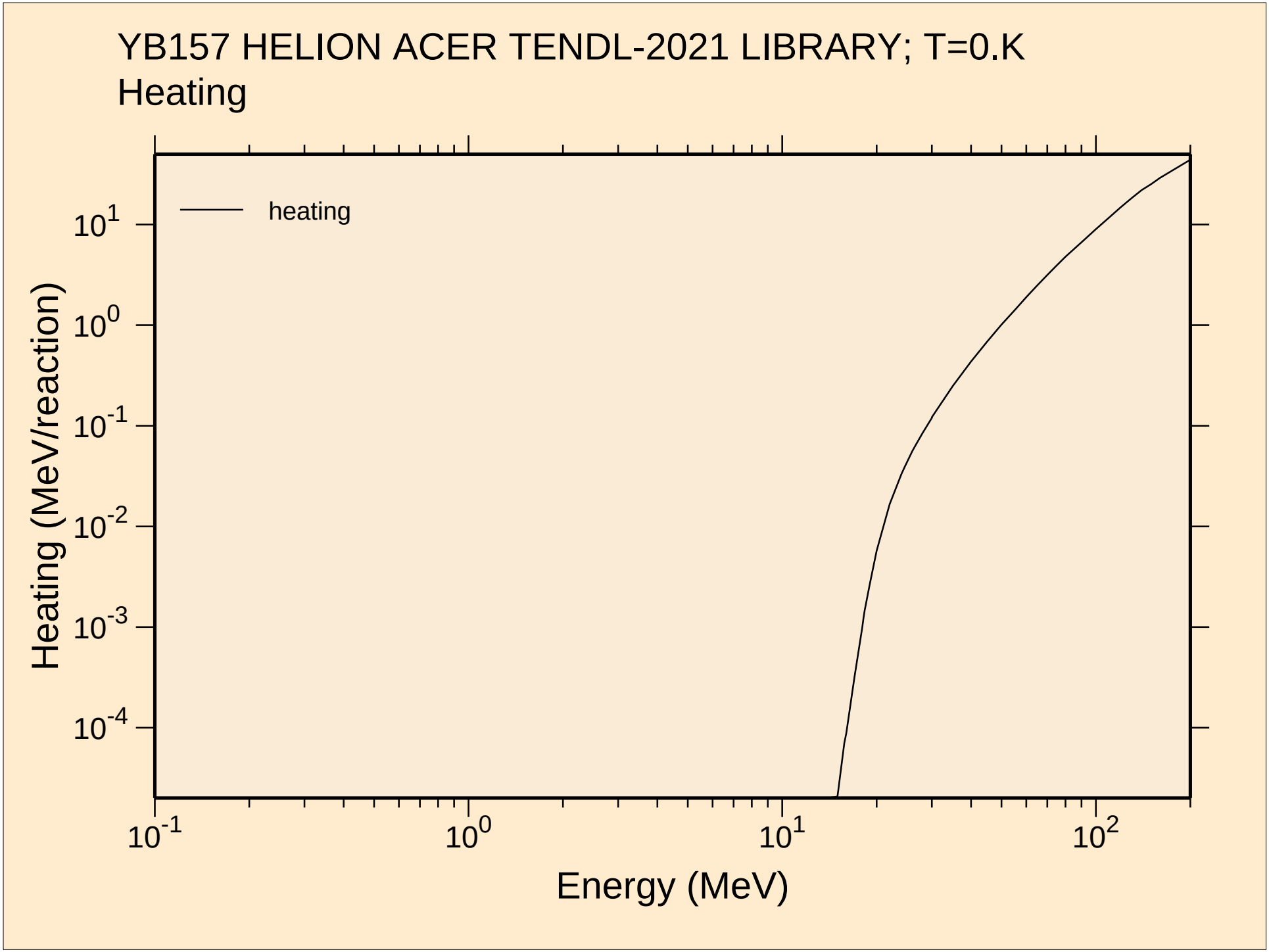
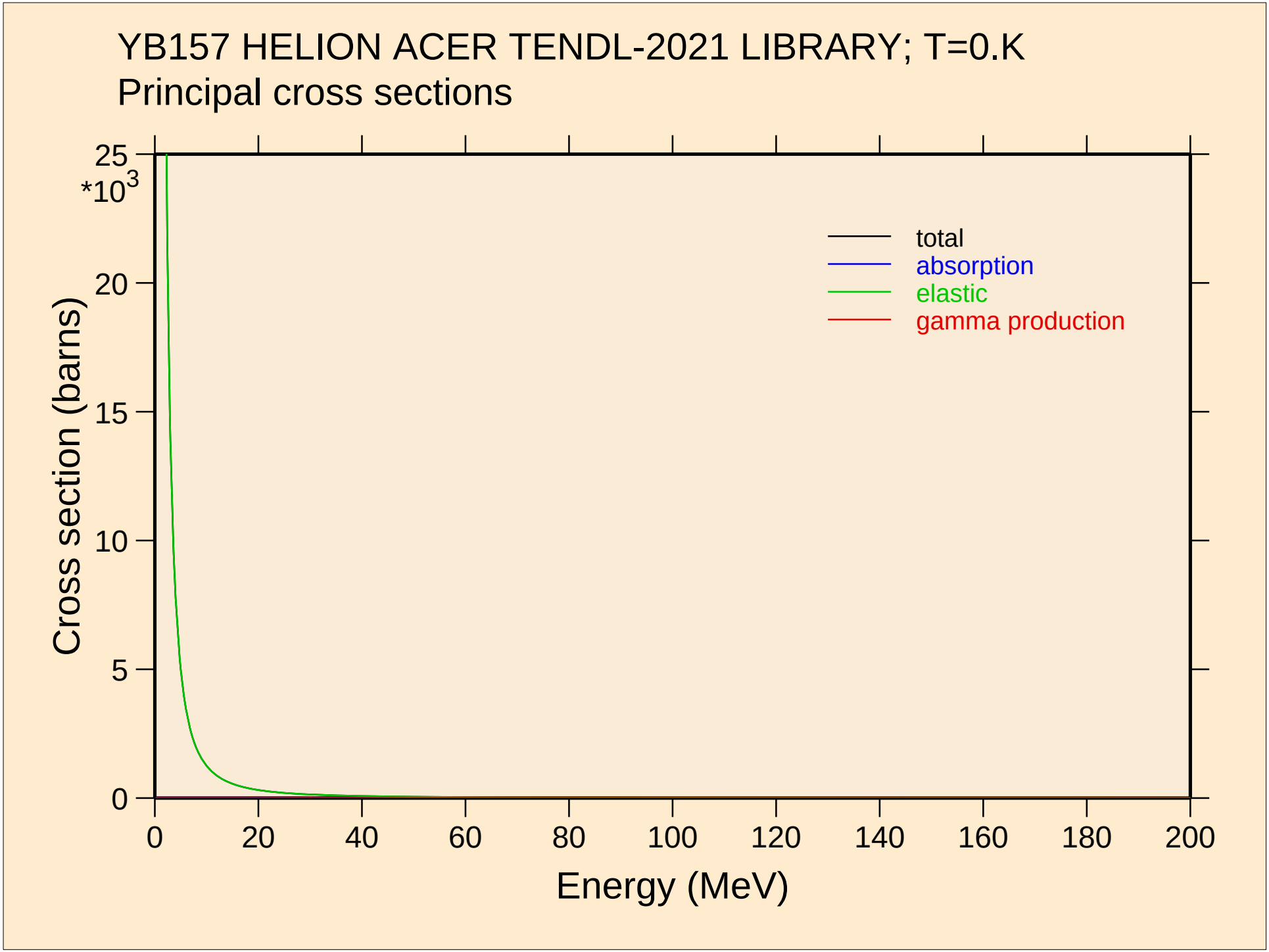
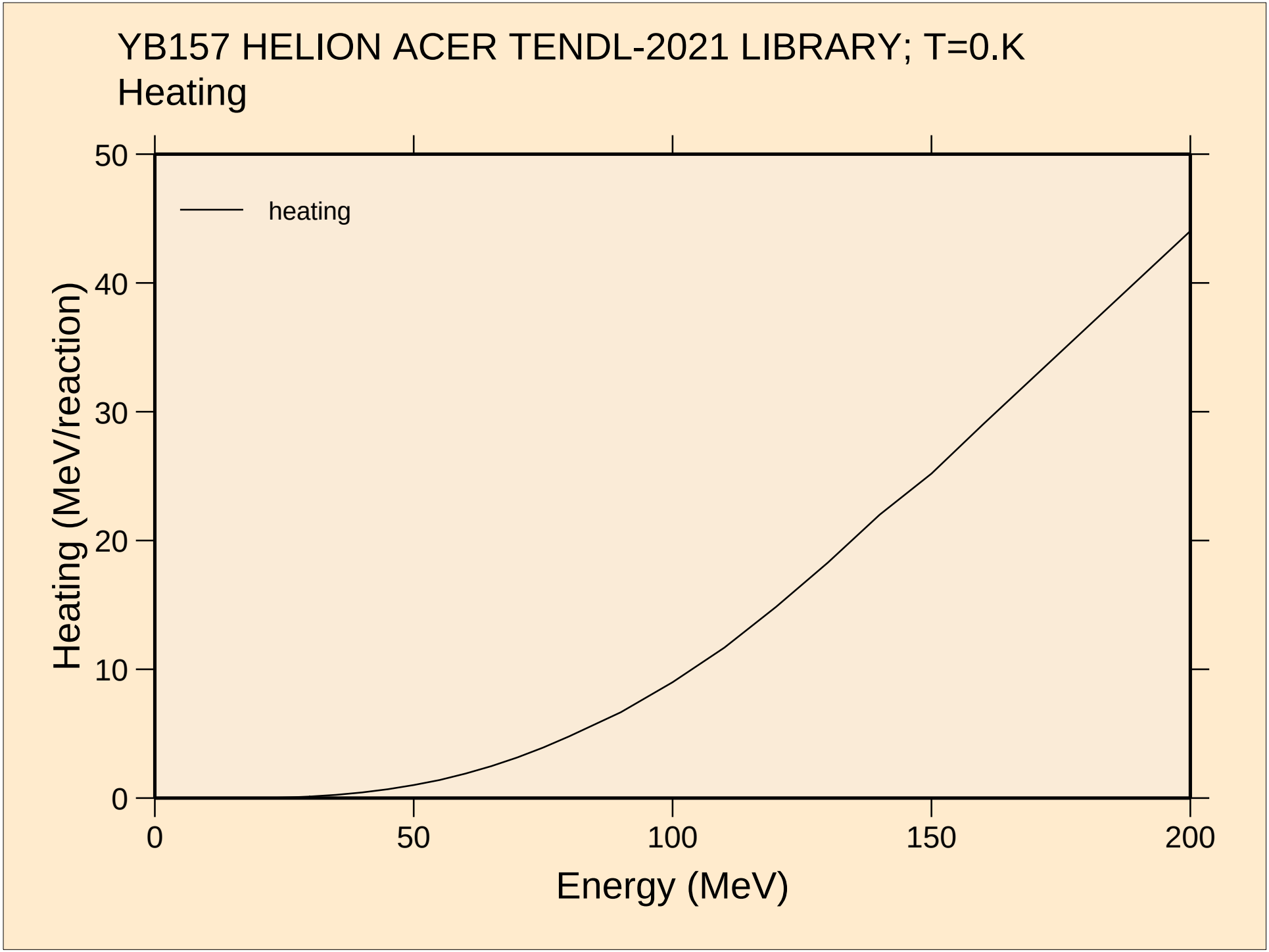
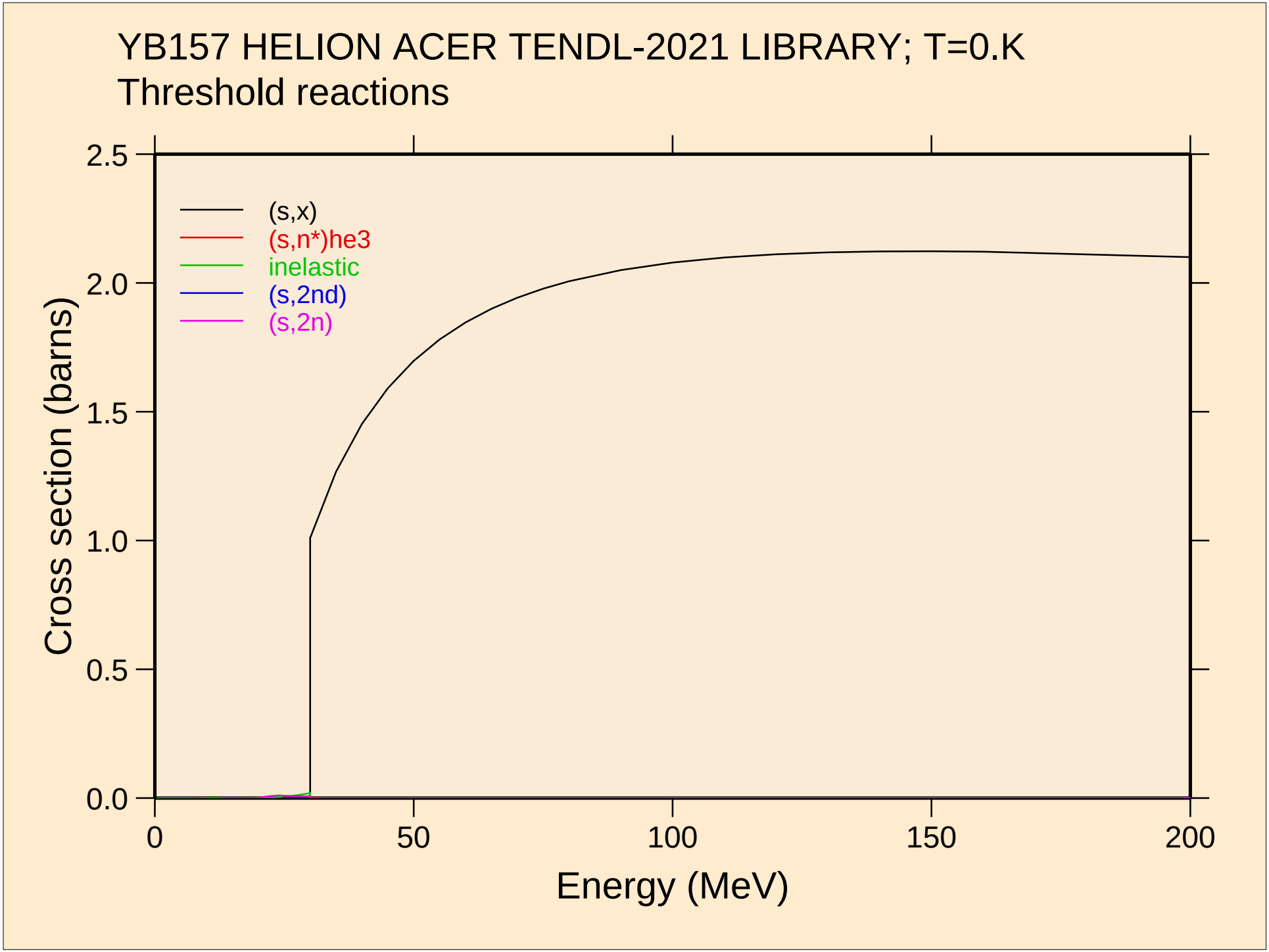
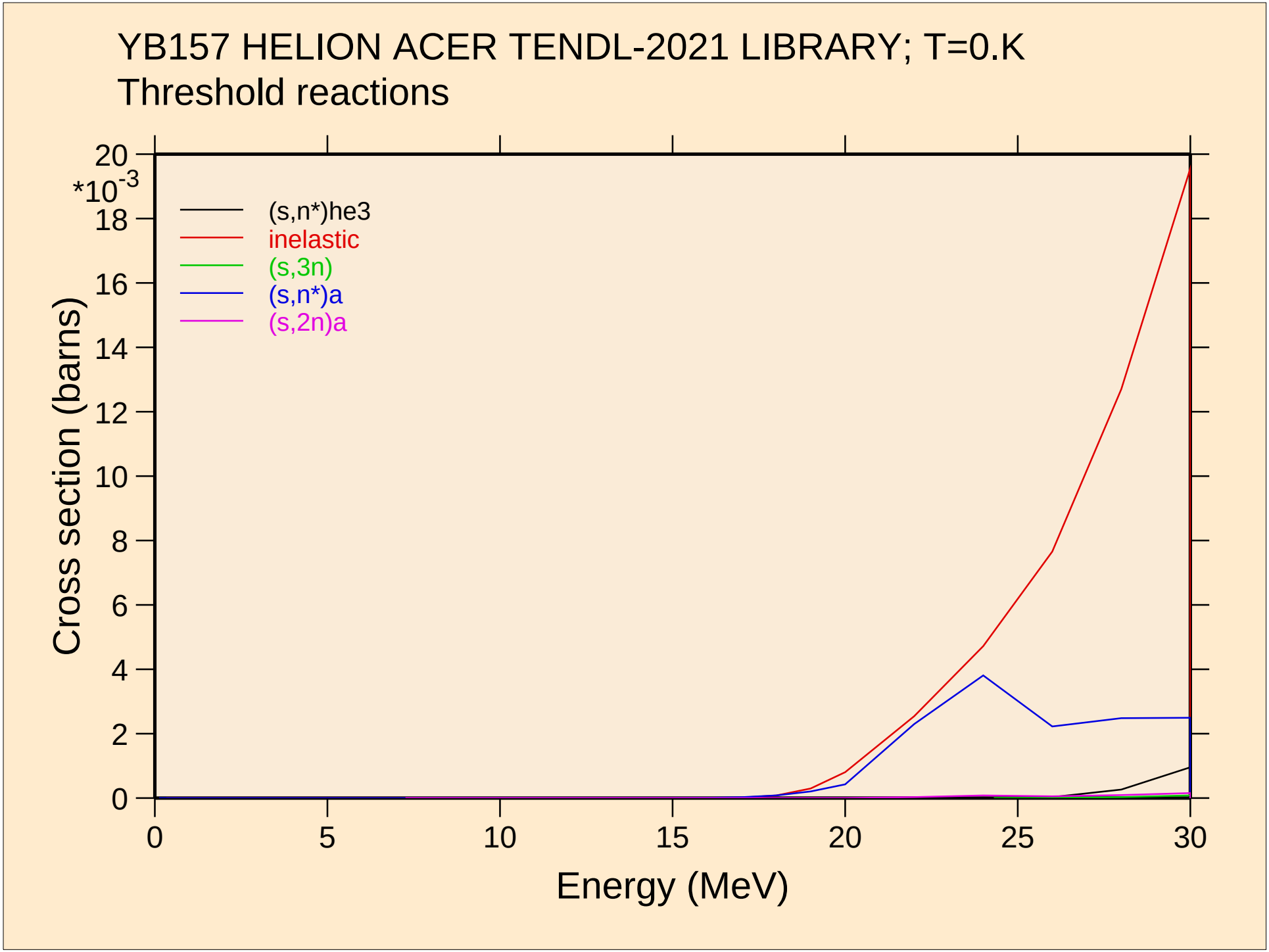

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Principal cross sections
Cross section (barns)
10^7
10^6
10^5
10^4
10^3
10^2
10^1
10^{-1}
10^0
10^1
10^2
Energy (MeV)
total
absorption
elastic
gamma production

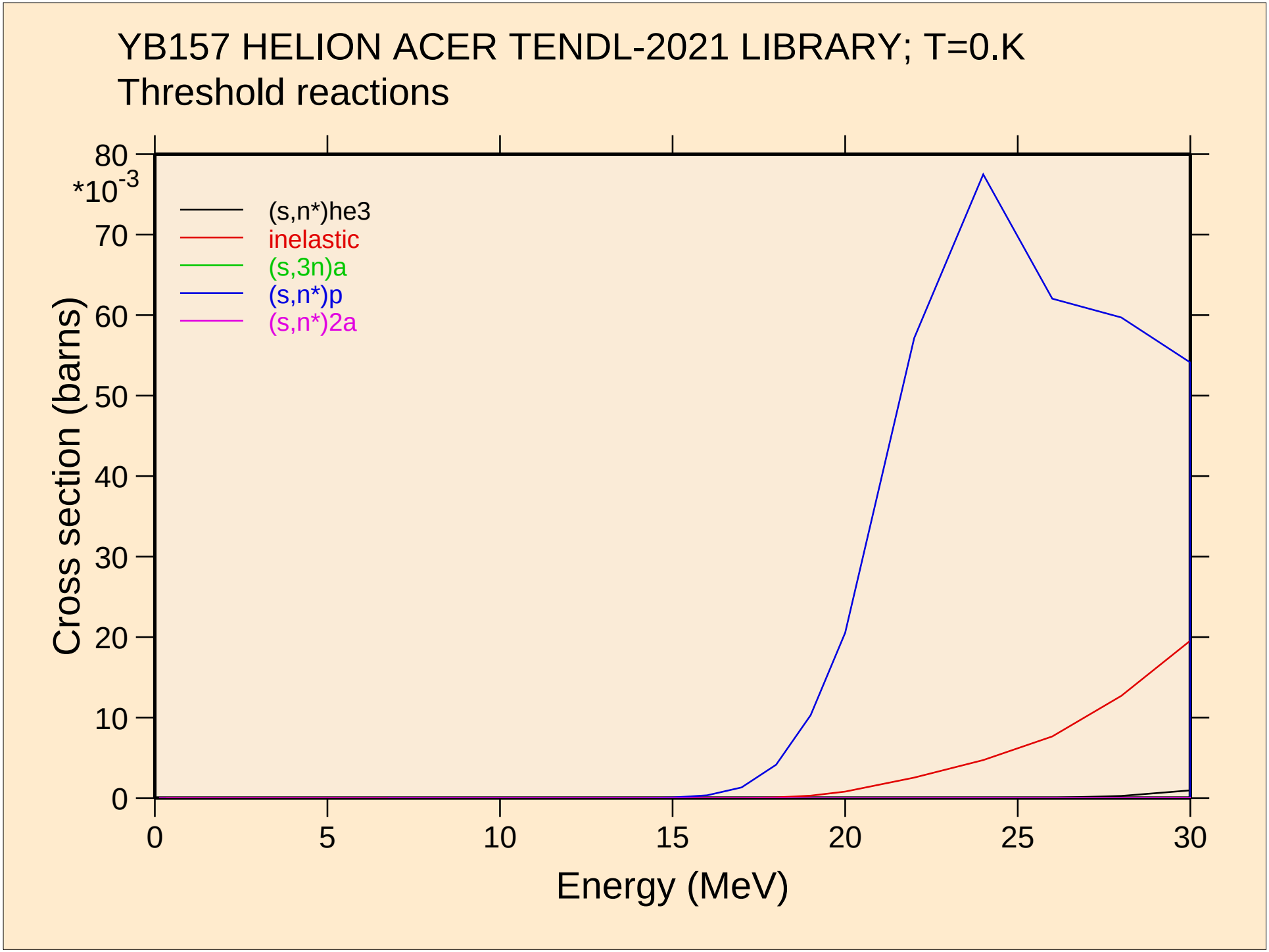

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Heating
heating
Heating (MeV/reaction)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-1}
10^{0}
10^{1}
10^{2}
Energy (MeV)

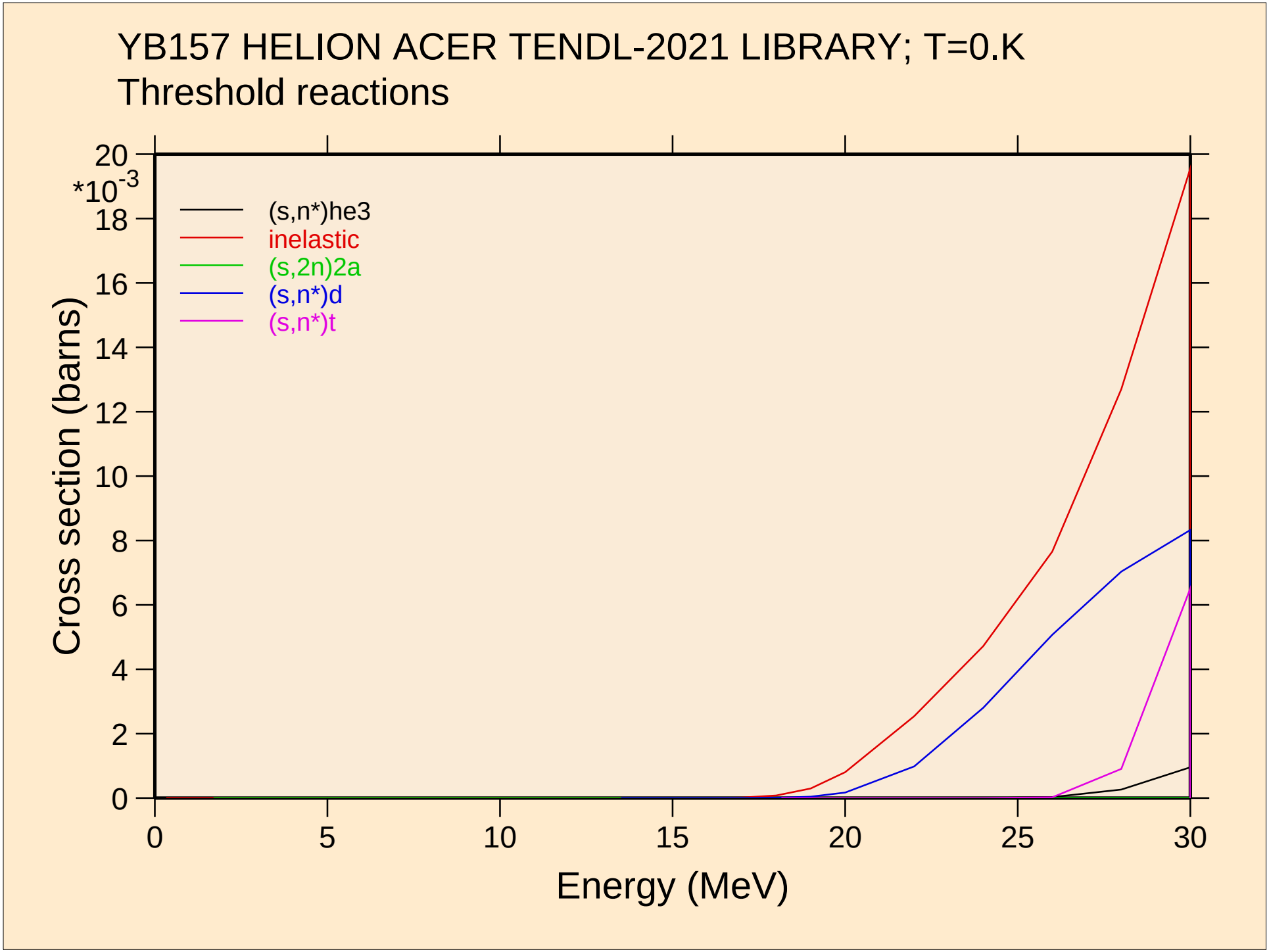

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Principal cross sections
Cross section (barns)
*10^3
25
20
15
10
5
0
0
20
40
60
80
100
120
140
160
180
200
Energy (MeV)
total
absorption
elastic
gamma production

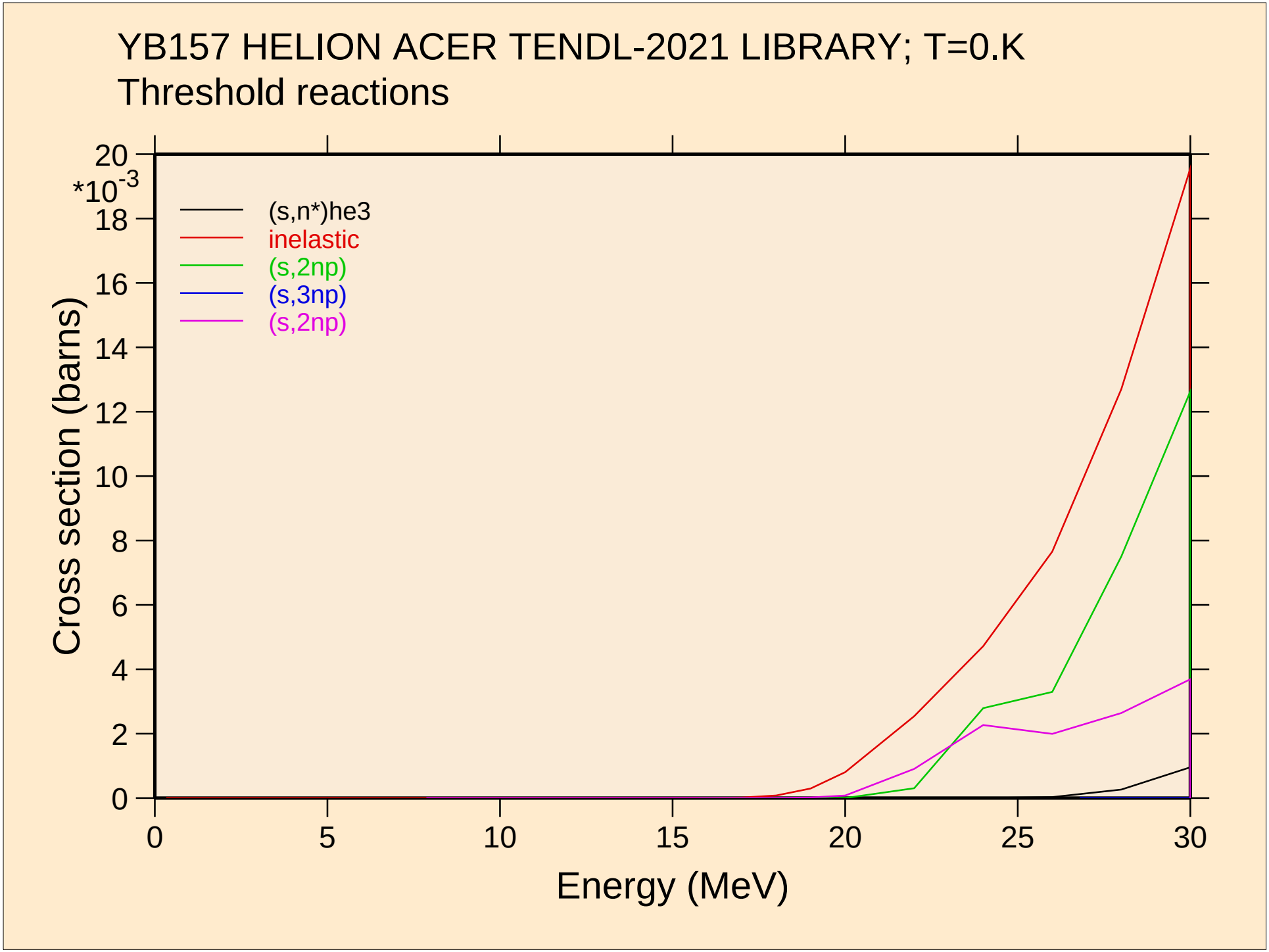

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
0
10
20
30
40
50
0
50
100
150
200

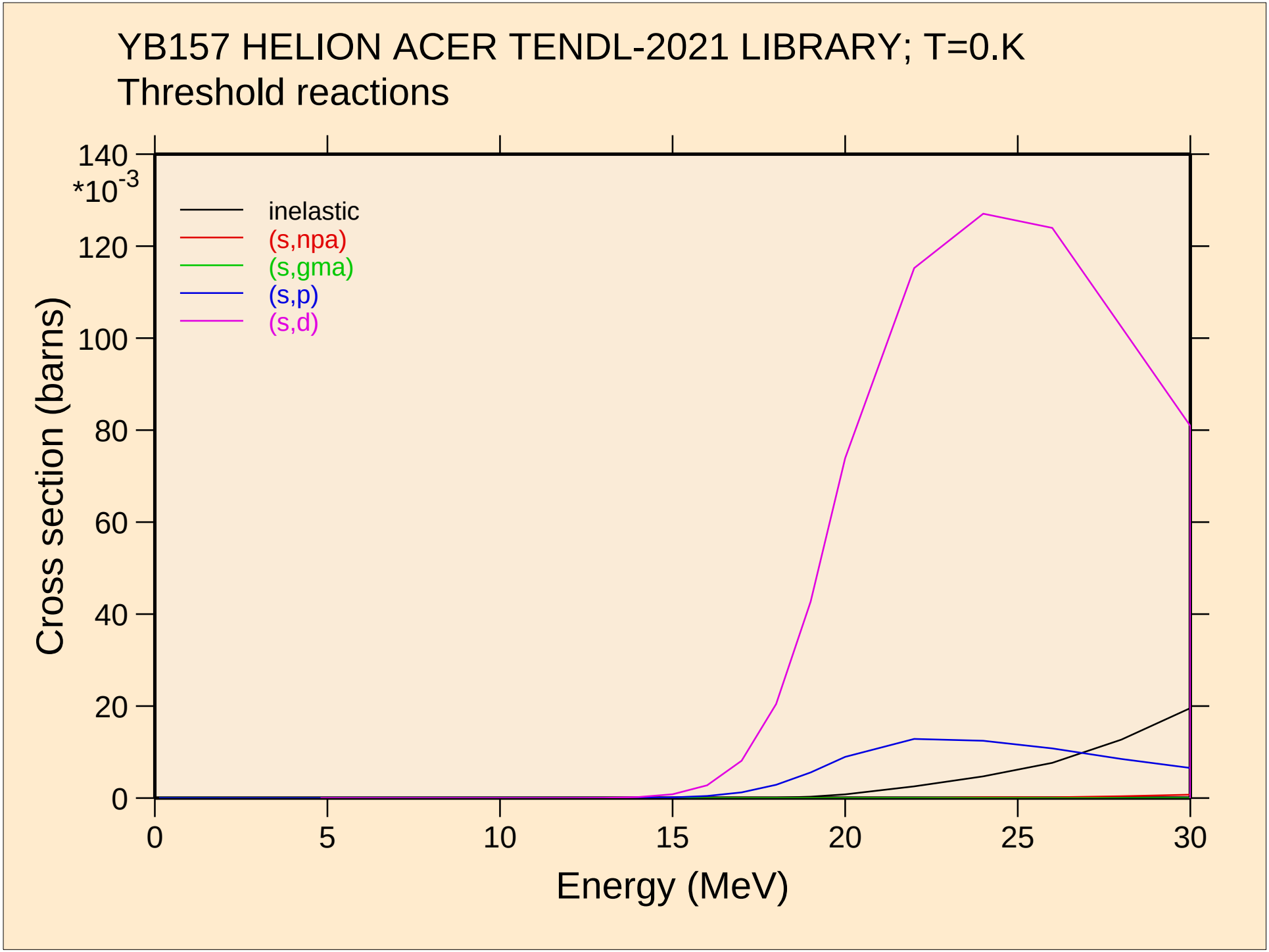

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Threshold reactions
(s,x)
(s,n*)he3
inelastic
(s,2nd)
(s,2n)
Cross section (barns)
Energy (MeV)
0.0
0.5
1.0
1.5
2.0
2.5
0
50
100
150
200

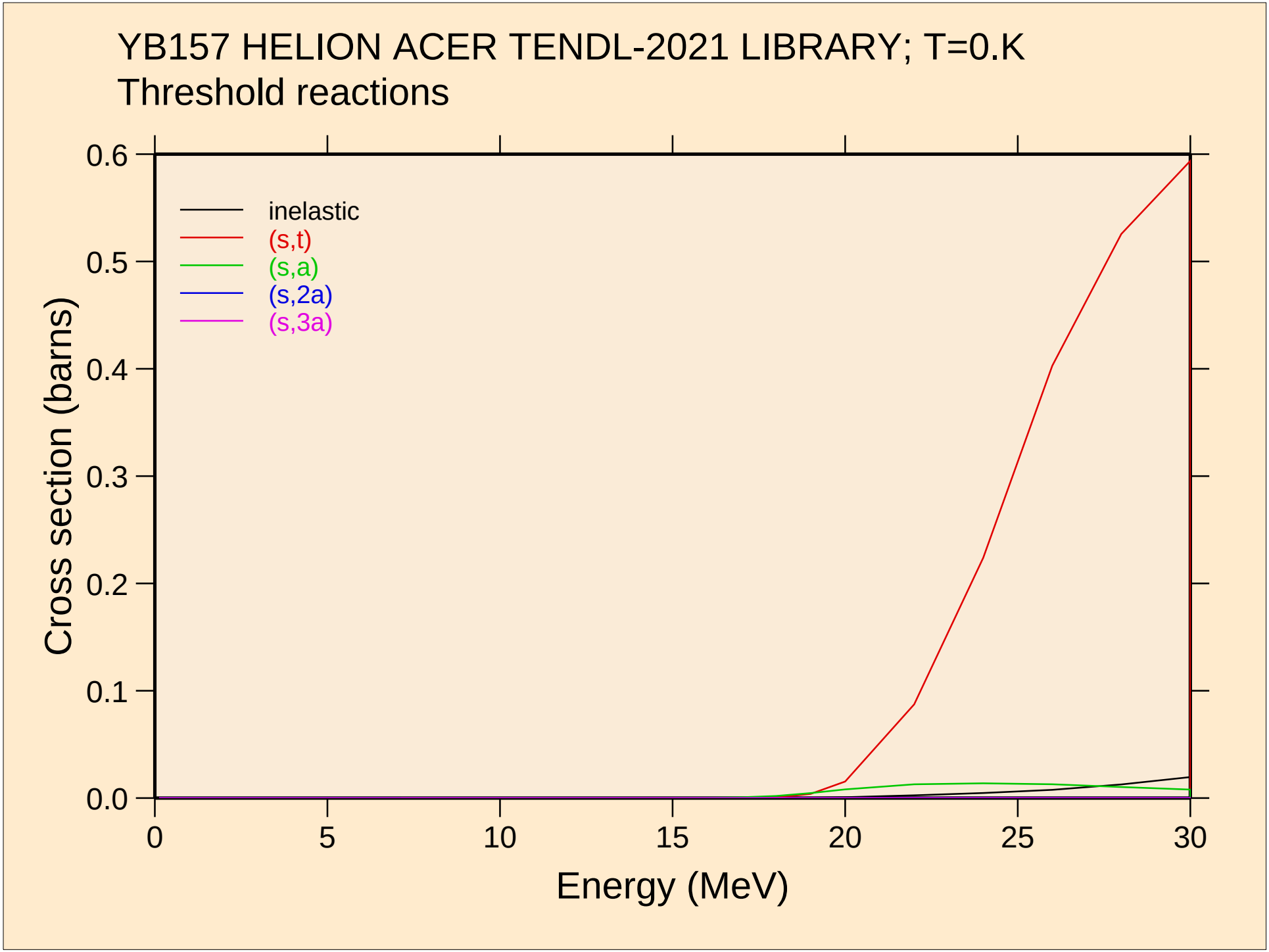

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Threshold reactions
*10-3
Cross section (barns)
Energy (MeV)
(s,n*)he3
inelastic
(s,3n)
(s,n*)a
(s,2n)a
0
2
4
6
8
10
12
14
16
18
20
0
5
10
15
20
25
30

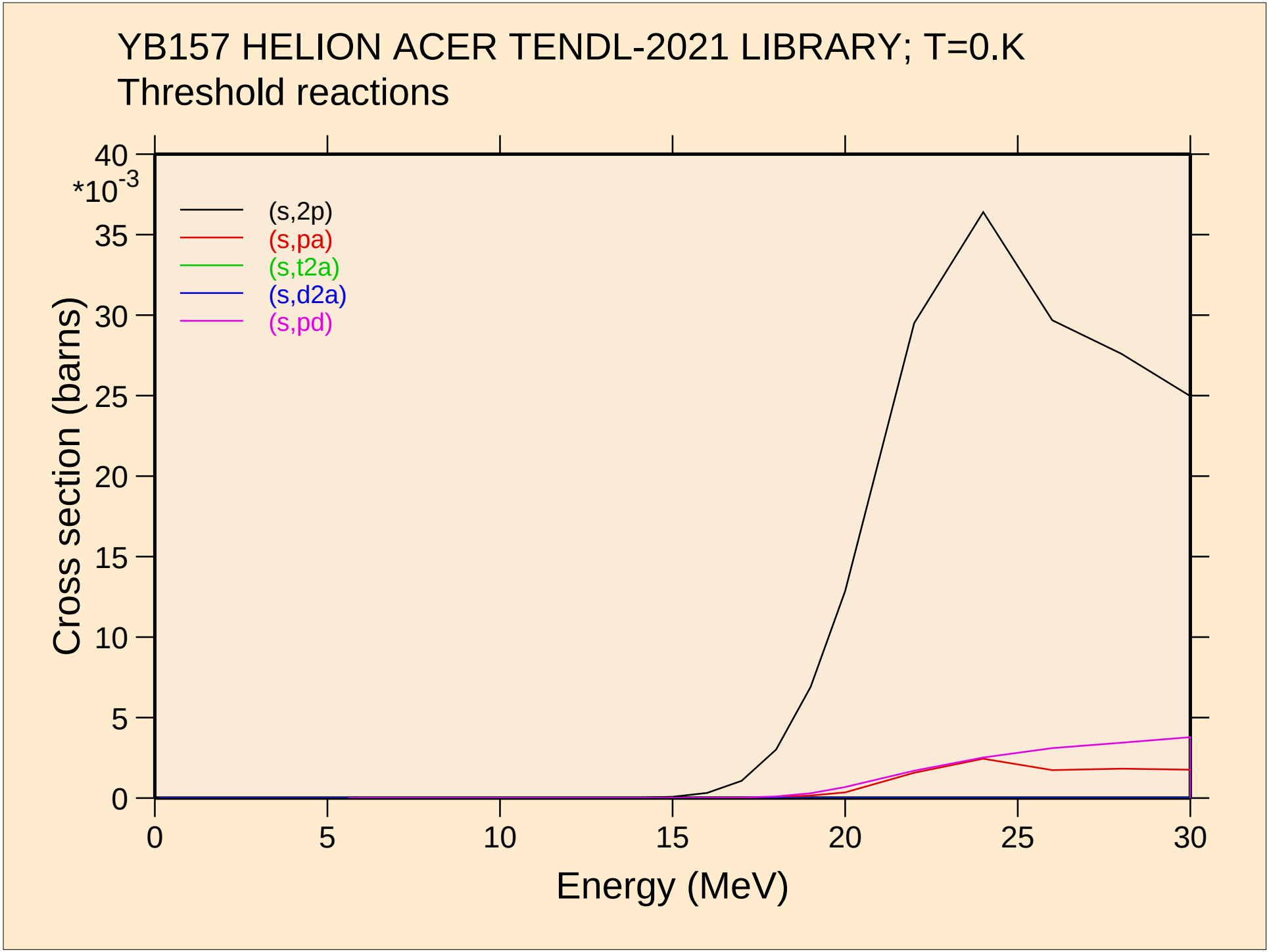

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Threshold reactions
*10-3
80
70
60
50
40
30
20
10
0
Cross section (barns)
(s,n*)he3
inelastic
(s,3n)a
(s,n*)p
(s,n*)2a
0
5
10
15
20
25
30
Energy (MeV)

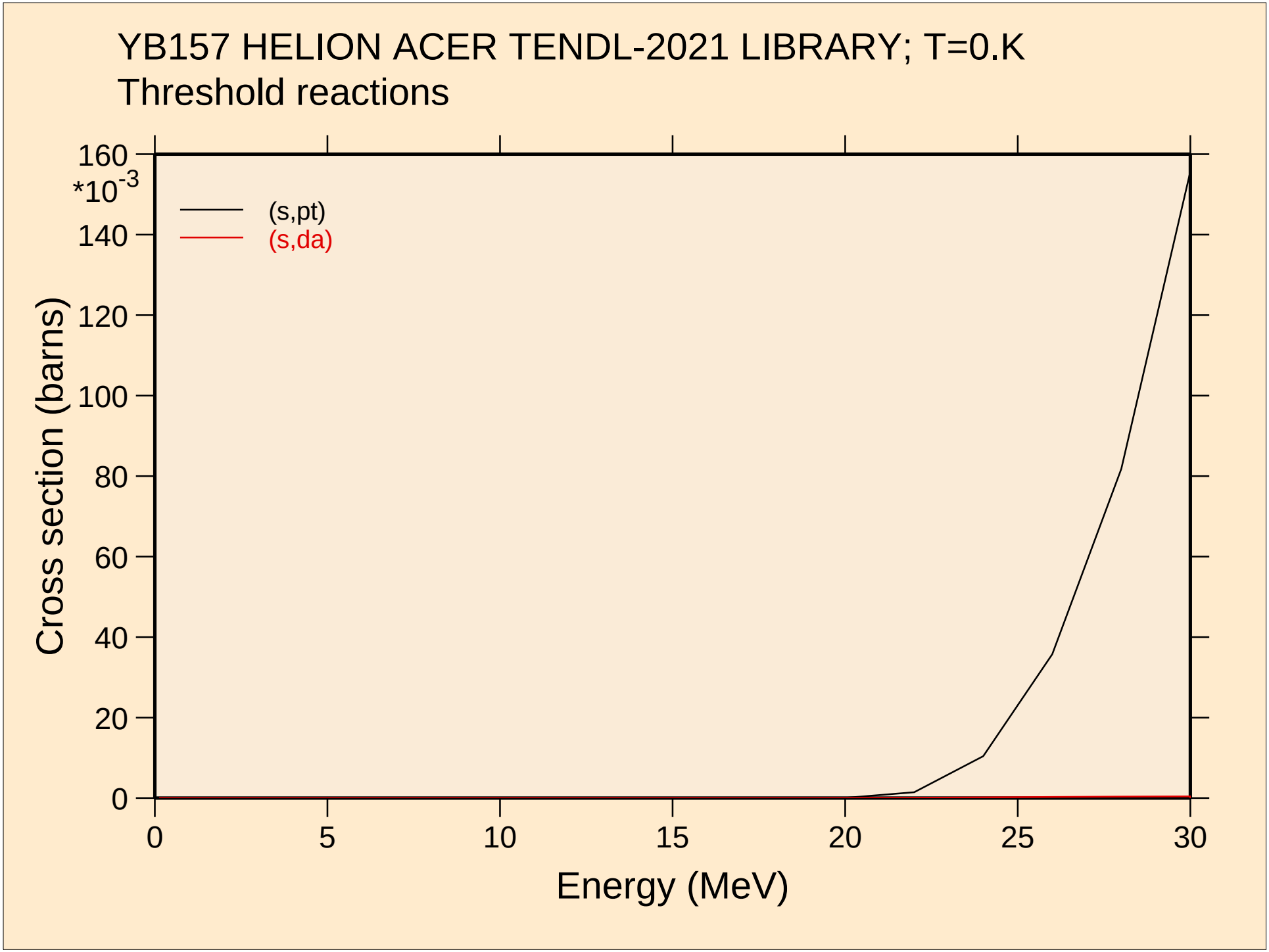

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Threshold reactions
Cross section (barns)
*10-3
20
18
16
14
12
10
8
6
4
2
0
0
5
10
15
20
25
30
Energy (MeV)
(s,n*)he3
inelastic
(s,2n)2a
(s,n*)d
(s,n*)t

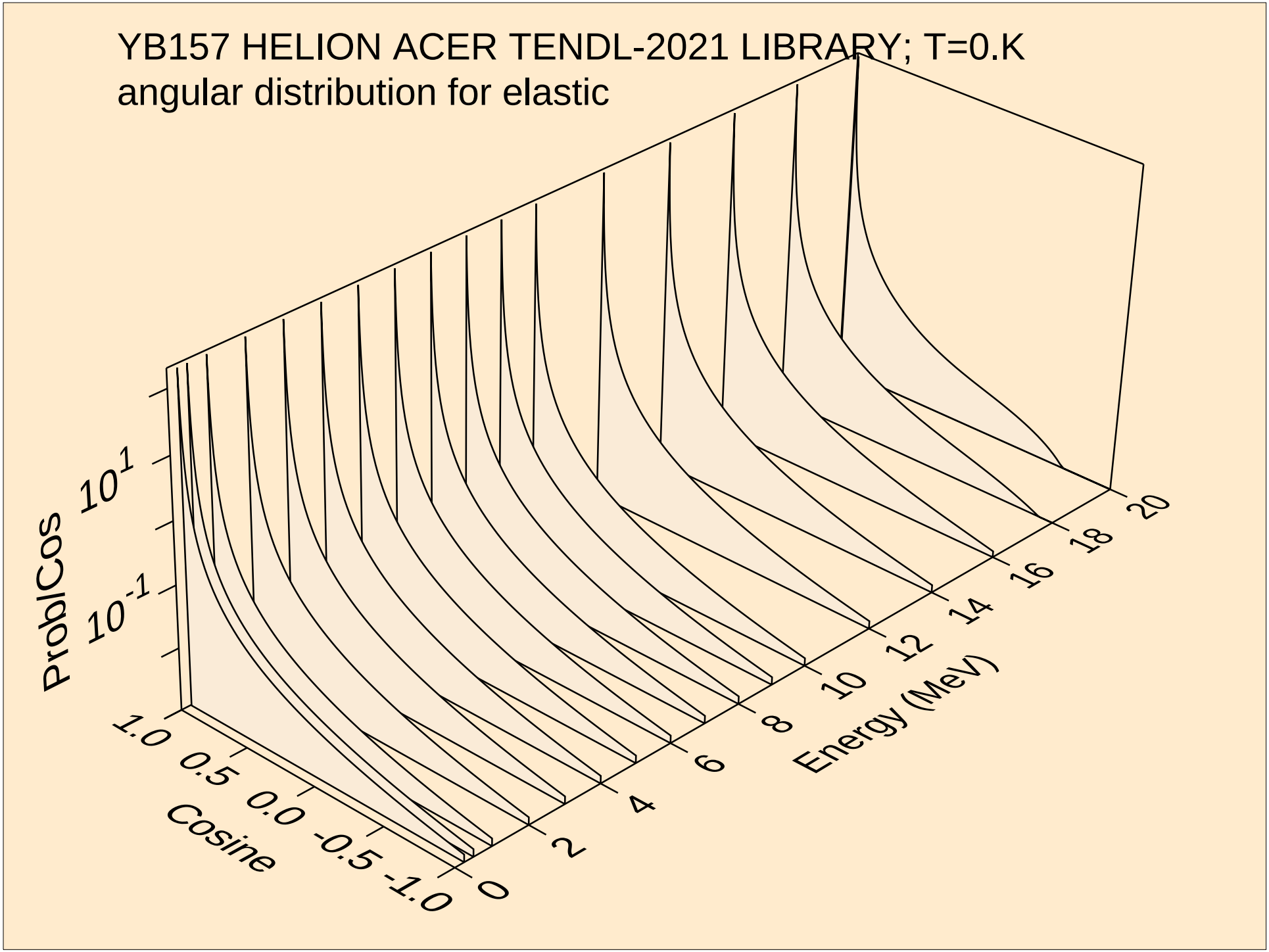

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Threshold reactions
*10-3
Cross section (barns)
Energy (MeV)
(s,n*)he3
inelastic
(s,2np)
(s,3np)
(s,2np)
0
2
4
6
8
10
12
14
16
18
20
0
5
10
15
20
25
30

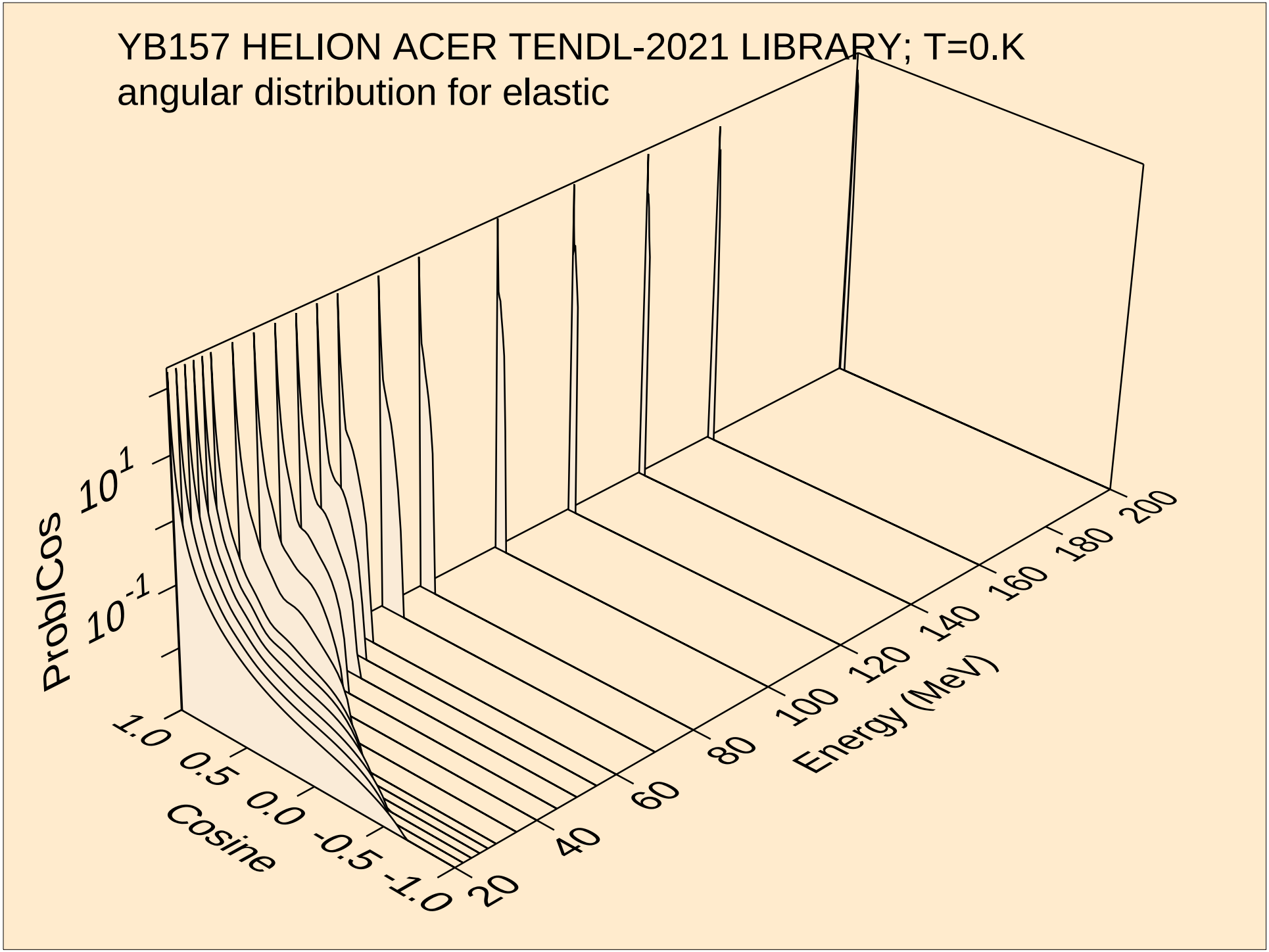

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Threshold reactions
140
*10-3
120
100
80
60
40
20
0
Cross section (barns)
inelastic
(s,npa)
(s,gma)
(s,p)
(s,d)
0
5
10
15
20
25
30
Energy (MeV)

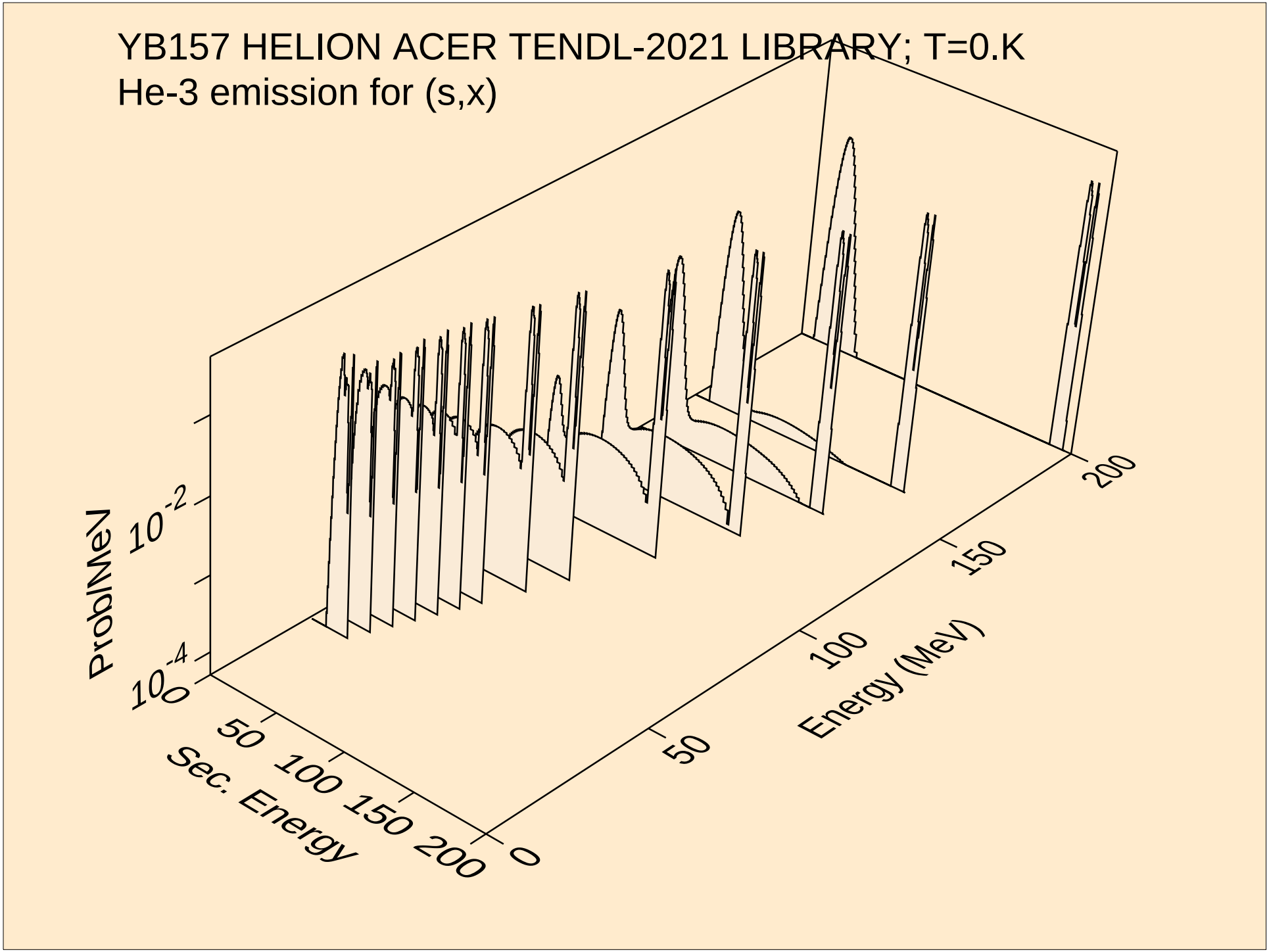

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Threshold reactions
inelastic
(s,t)
(s,a)
(s,2a)
(s,3a)
Cross section (barns)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0
5
10
15
20
25
30
Energy (MeV)

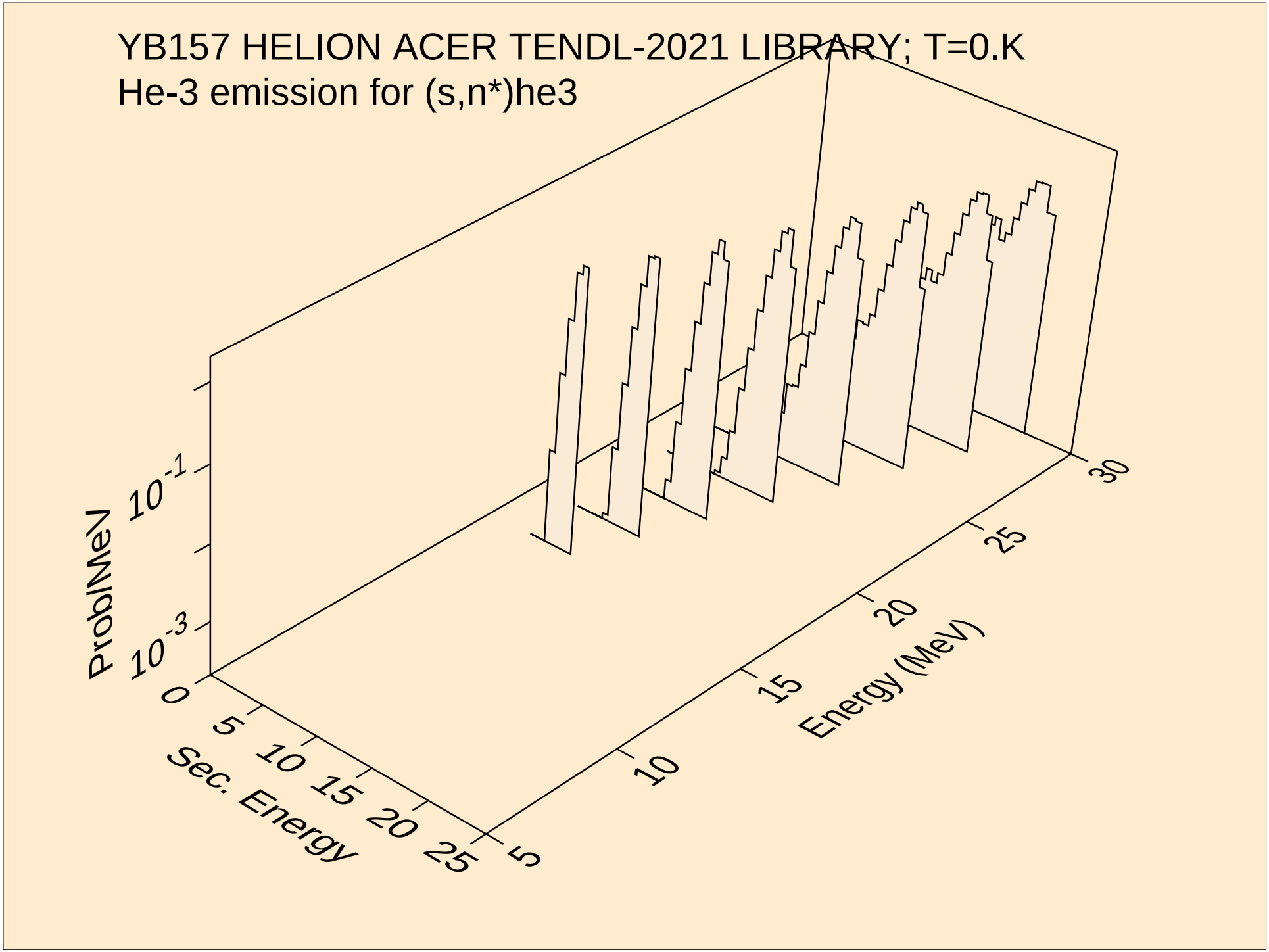

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Threshold reactions
*10-3
40
35
30
25
20
15
10
5
0
Cross section (barns)
(s,2p)
(s,pa)
(s,t2a)
(s,d2a)
(s,pd)
0
5
10
15
20
25
30
Energy (MeV)

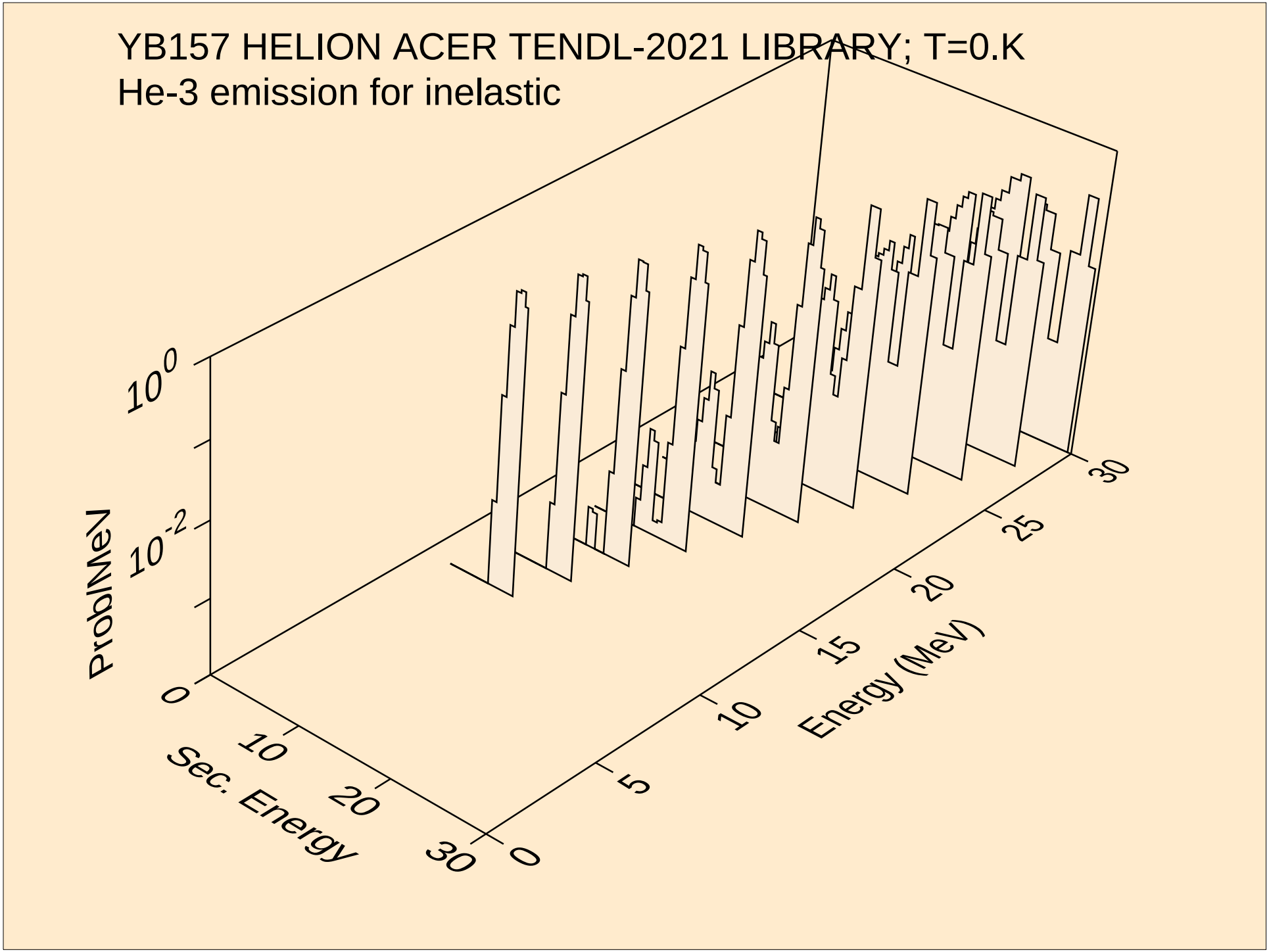

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Threshold reactions
160
*10-3
140
120
100
80
60
40
20
0
(s,pt)
(s,da)
Cross section (barns)
0
5
10
15
20
25
30
Energy (MeV)

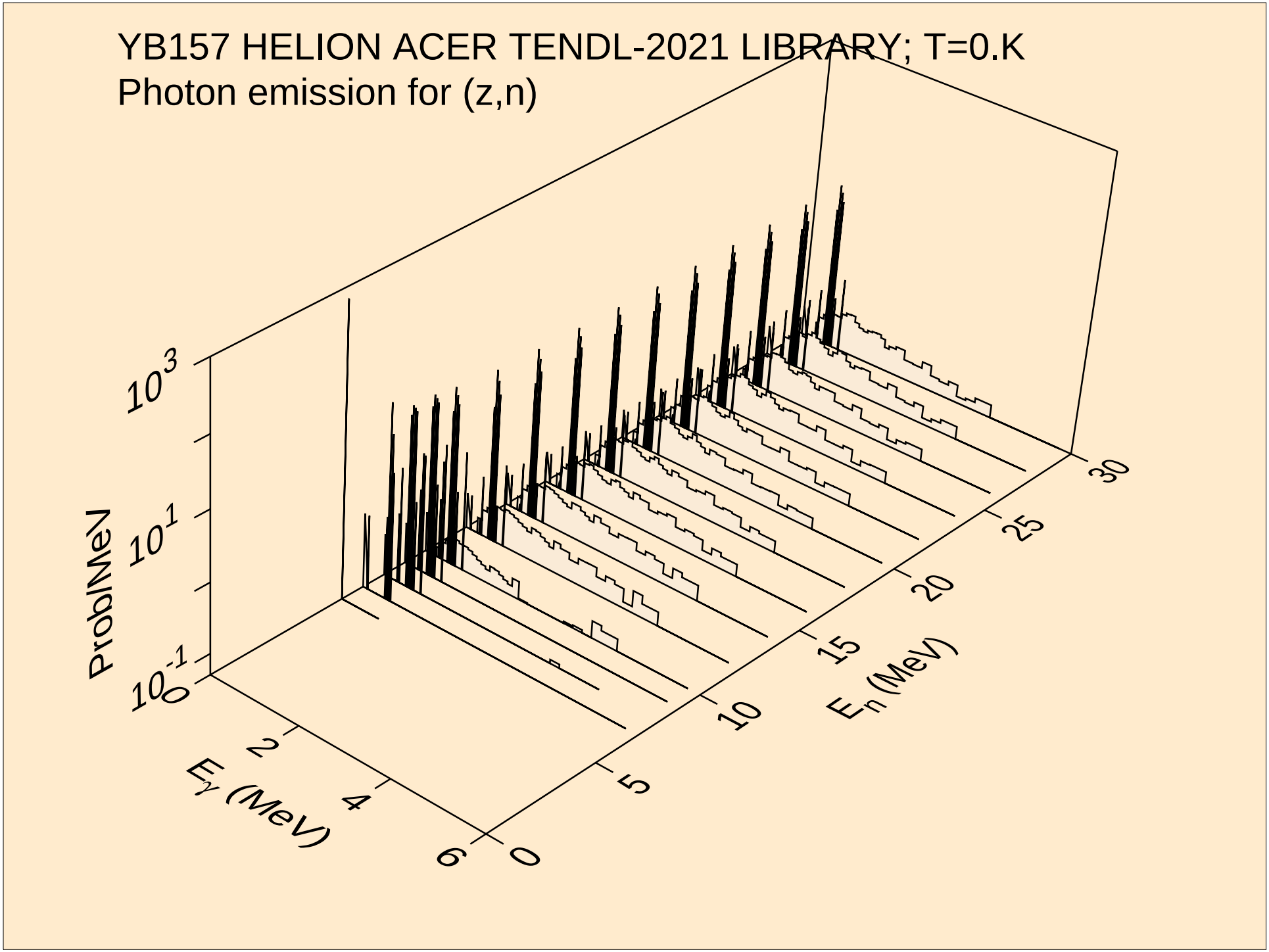

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
angular distribution for elastic
ProbCos
10^{1}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

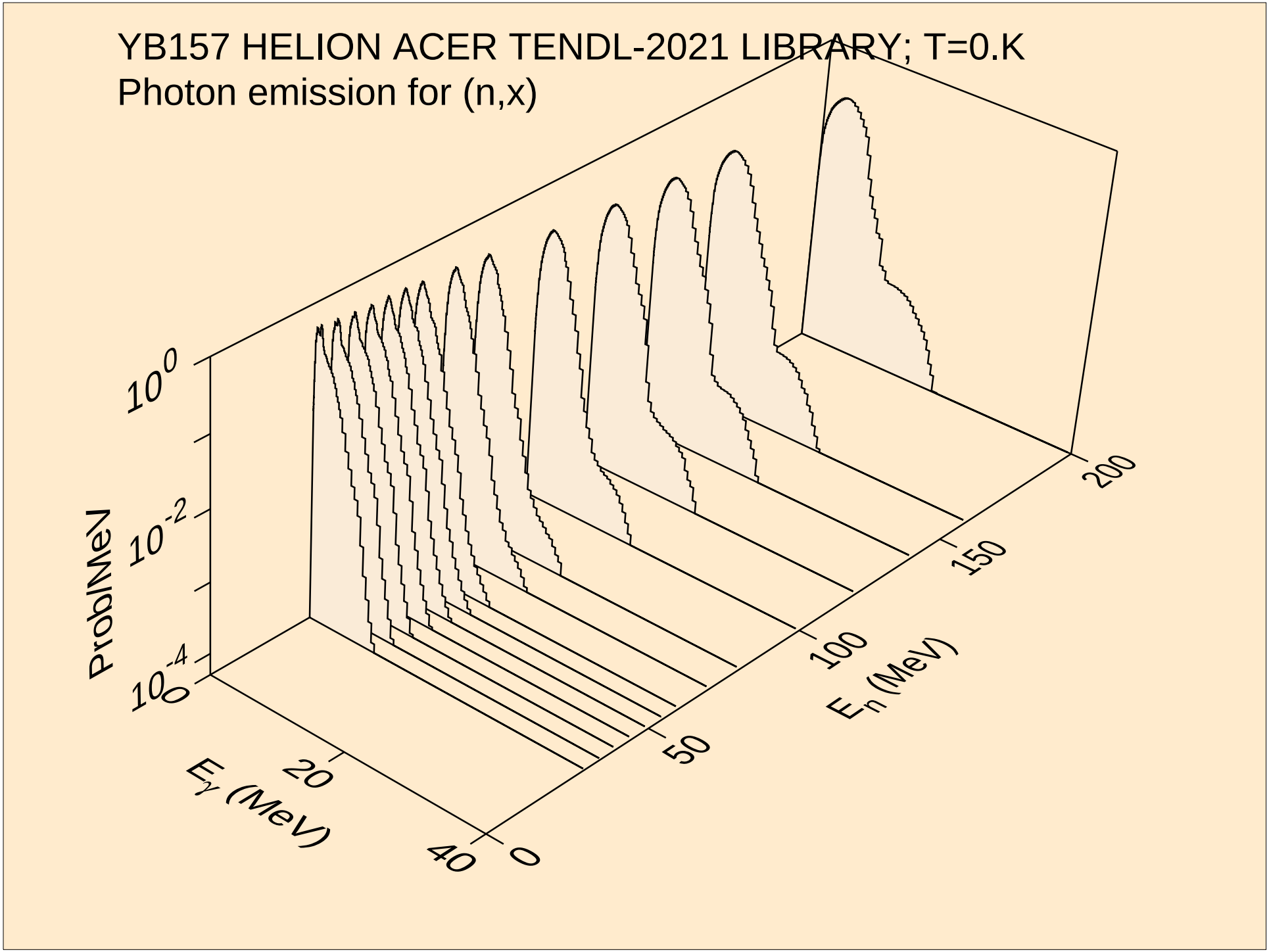

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
angular distribution for elastic
ProbICos
10^1
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

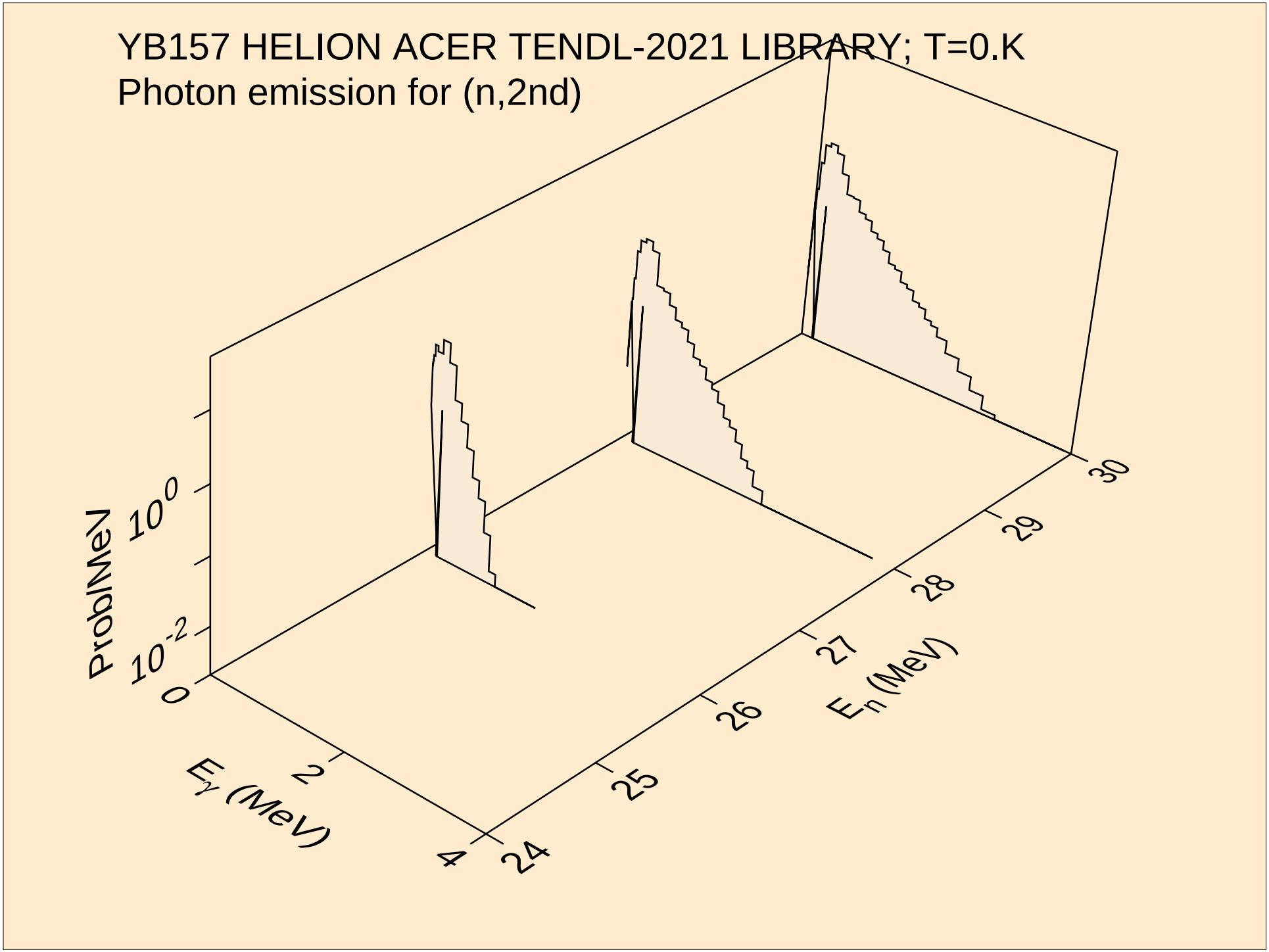

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
He-3 emission for (s,x)
Prob/MeV
10-2
10-4
0
50
100
150
200
Sec. Energy
0
50
100
150
200
Energy (MeV)

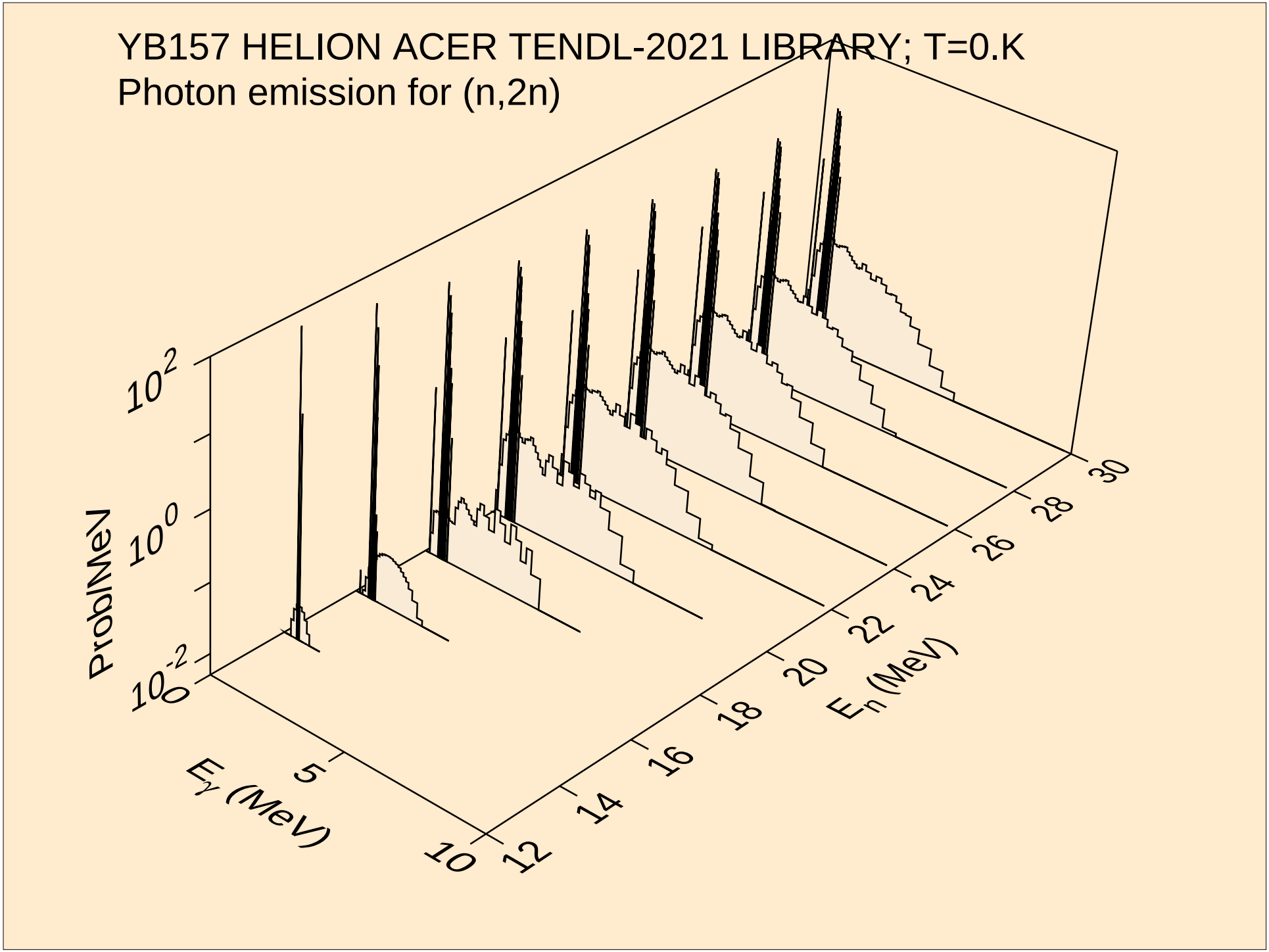

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
He-3 emission for (s,n*)he3
Prob/MeV
10-1
10-3
0
5
10
15
20
25
Sec. Energy
5
10
15
20
25
30
Energy (MeV)

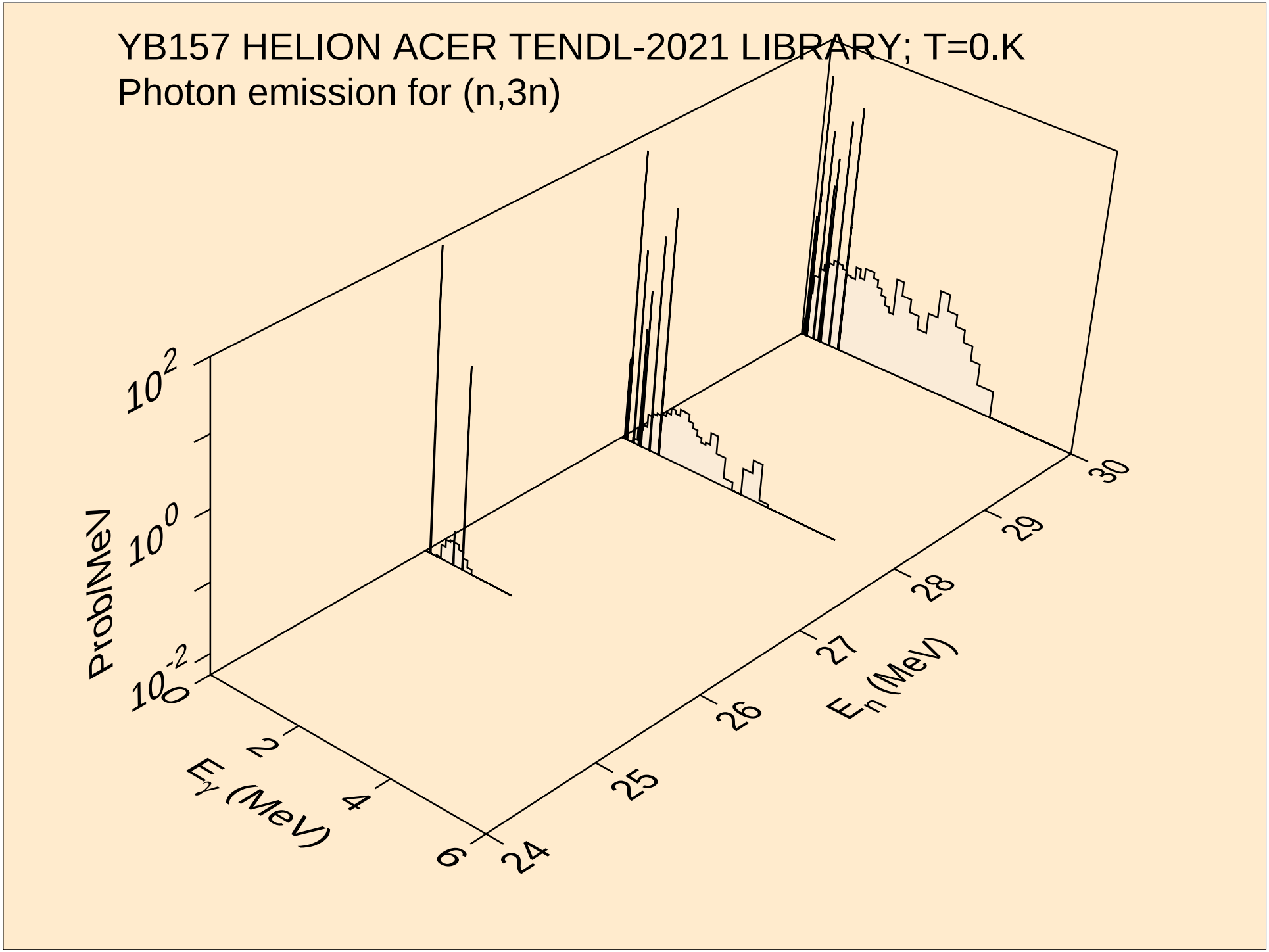

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
He-3 emission for inelastic
Prob/MeV
10^0
10^-2
0
Sec. Energy
10
20
30
0
5
10
15
20
25
30
Energy (MeV)

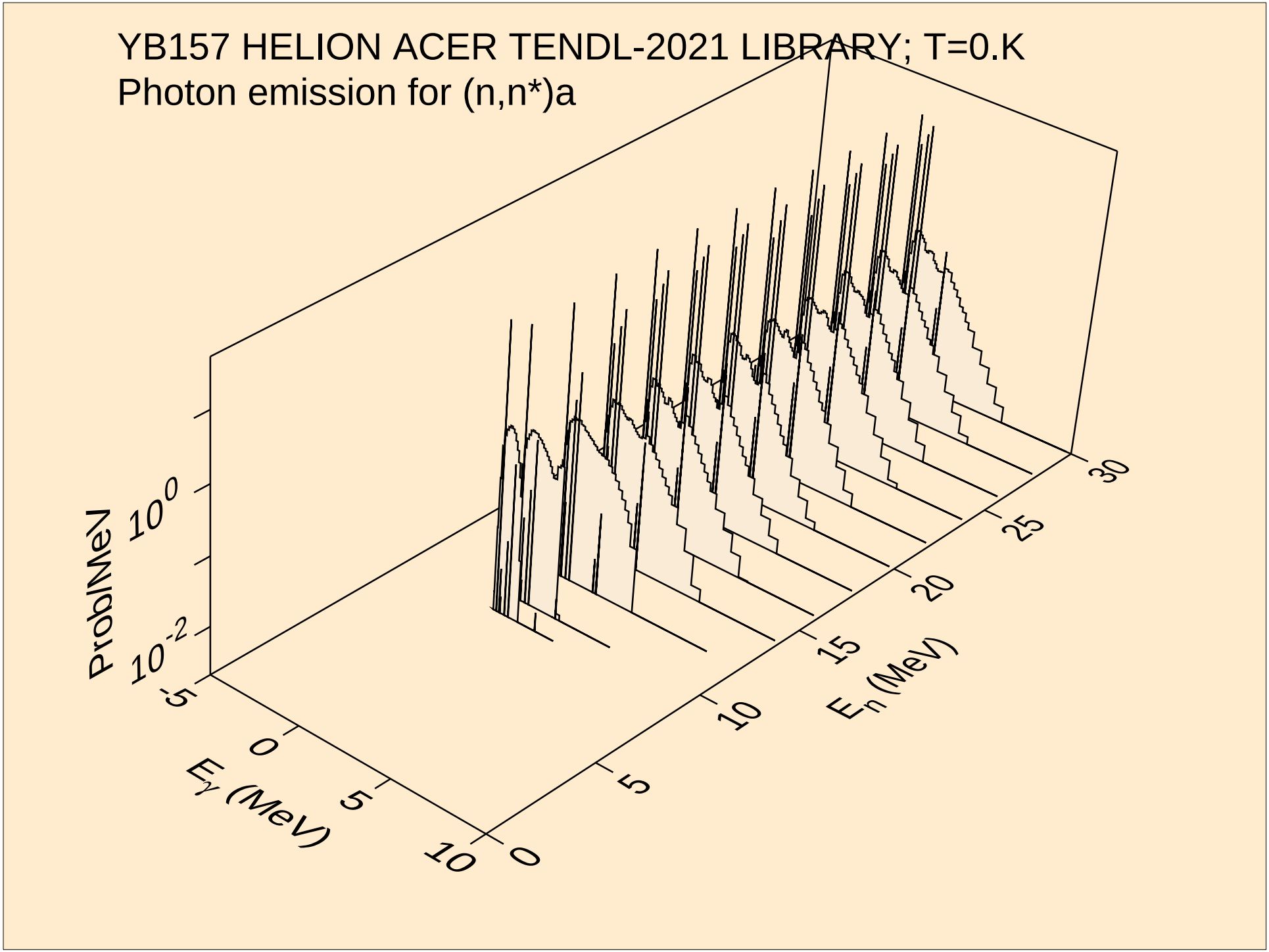

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (z,n)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
6
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

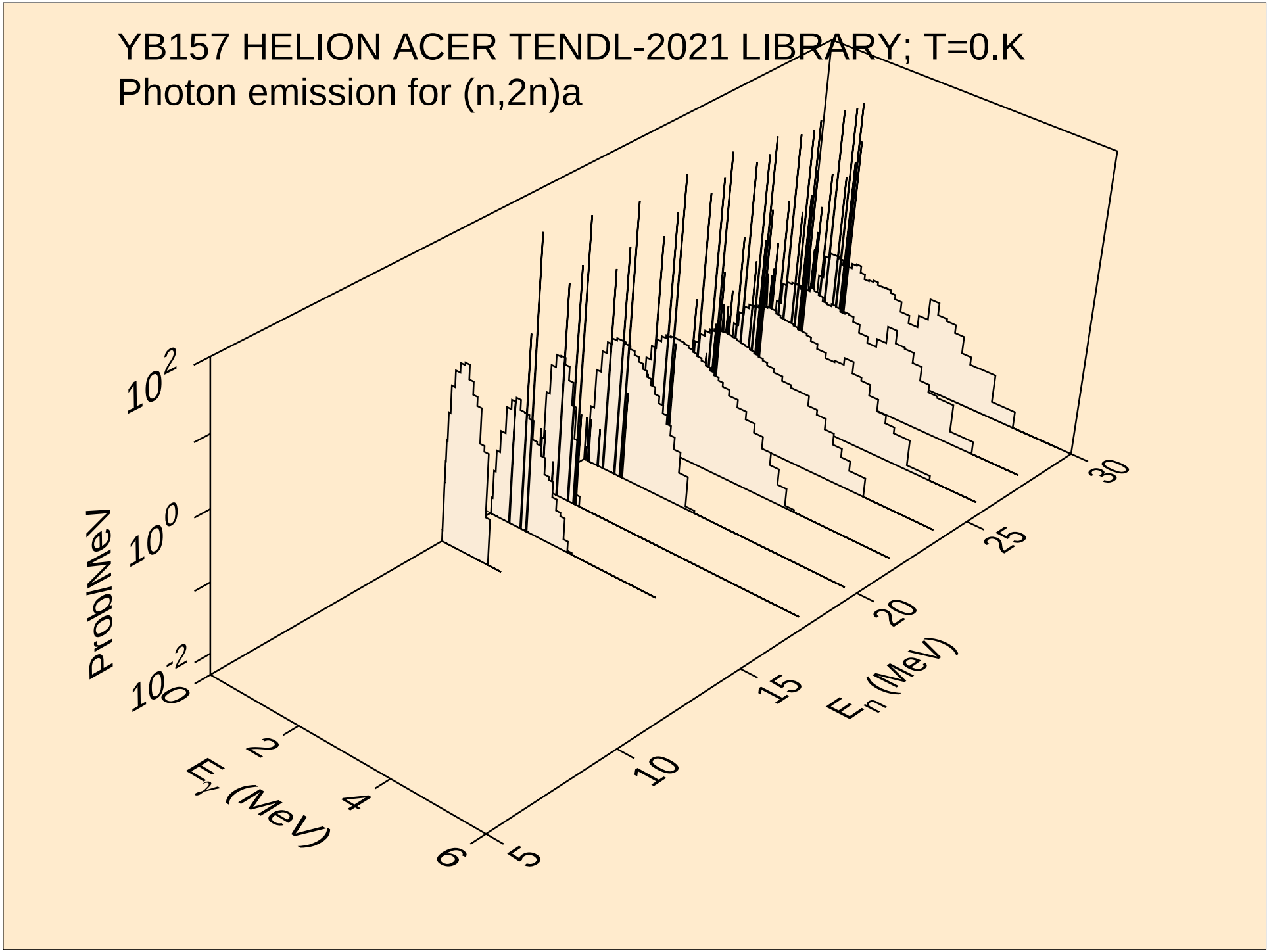

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,x)
Prob/MeV
10^{0}
10^{-2}
10^{-4}
0
20
40
E_γ (MeV)
0
50
100
150
200
E_n (MeV)

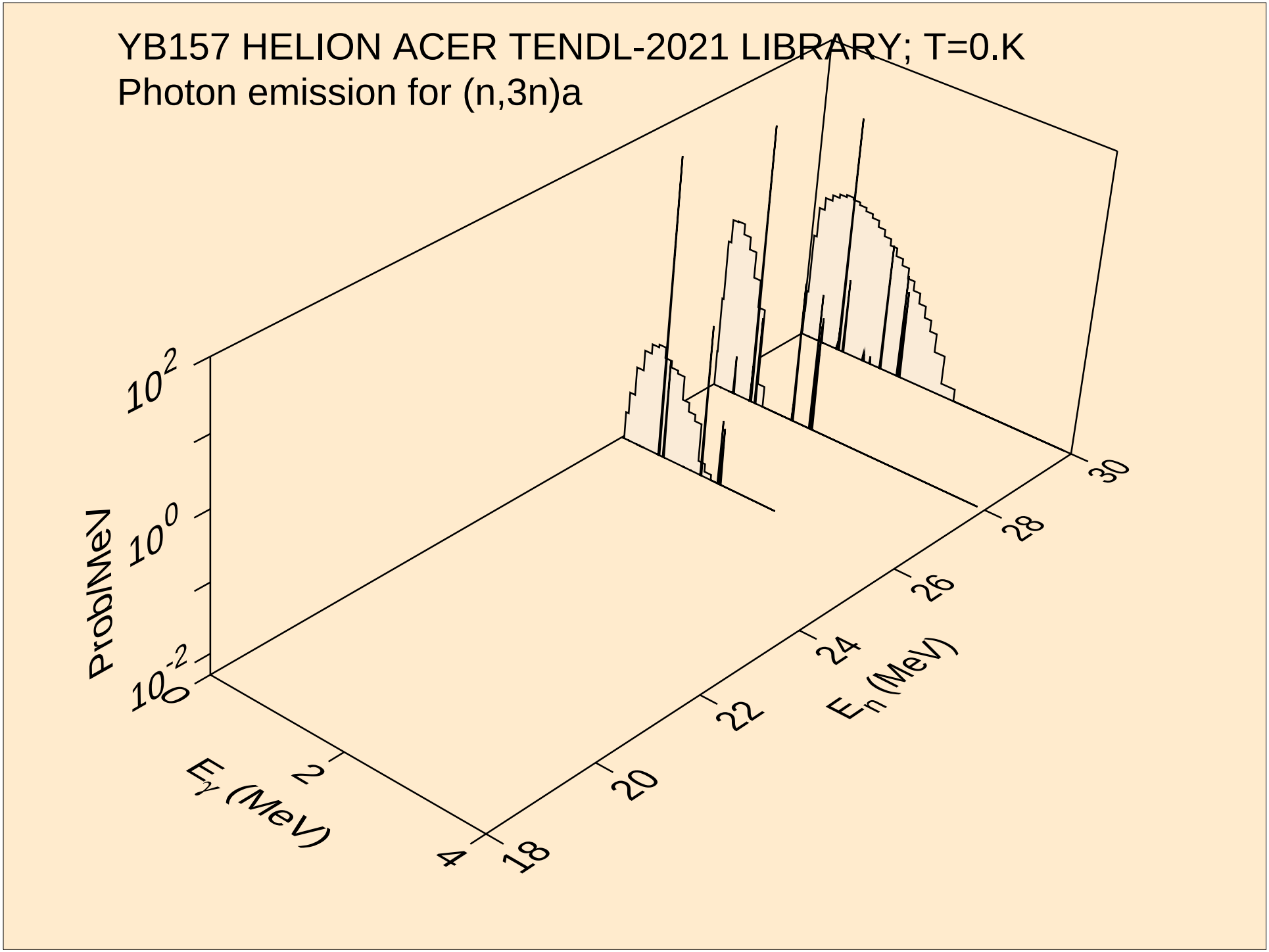

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,2nd)
Prob/MeV
10^0
10^-2
0
2
4
E_γ (MeV)
24
25
26
27
28
29
30
E_n (MeV)

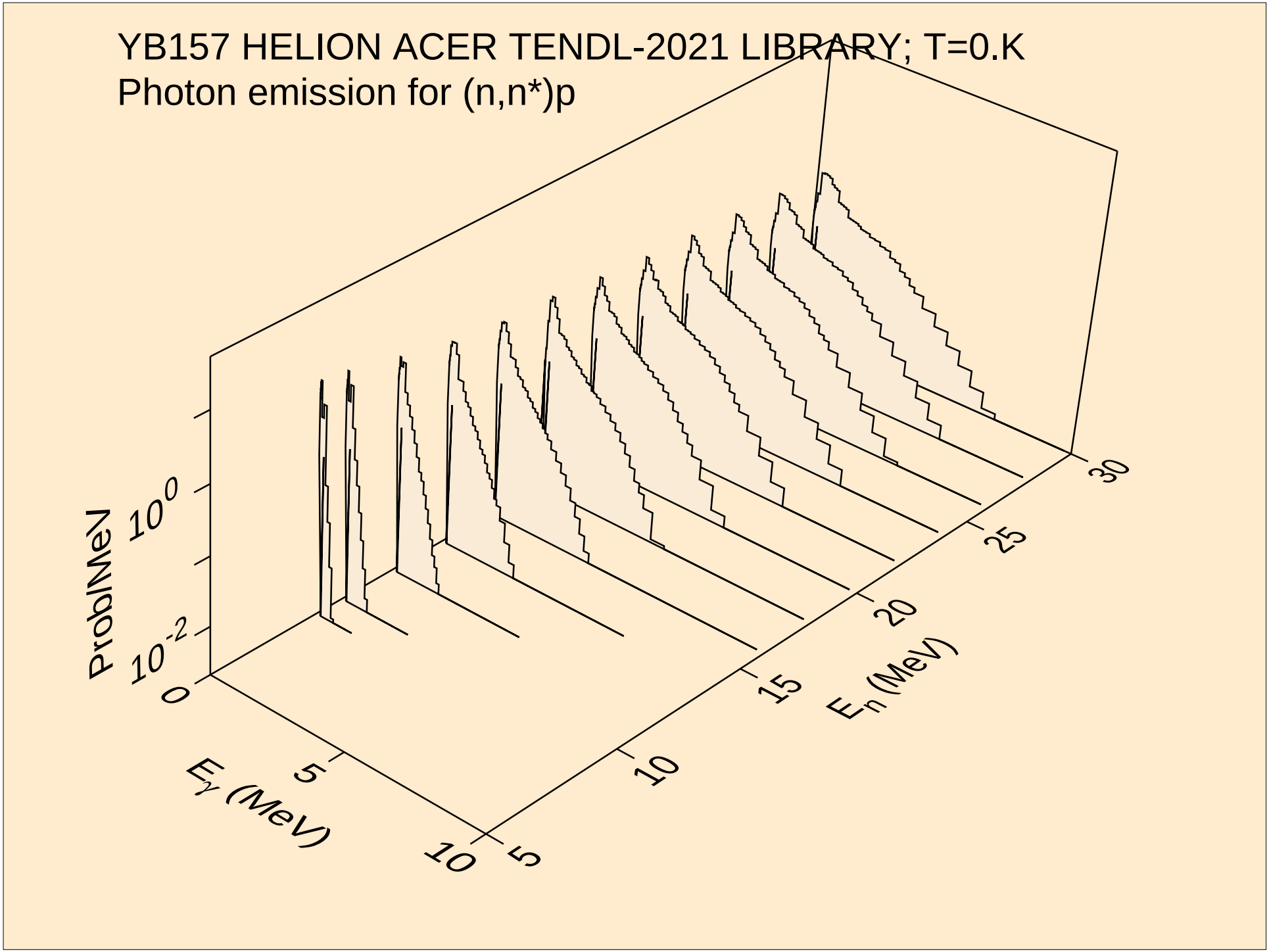

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,2n)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
12
14
16
18
20
22
24
26
28
30
E_n (MeV)

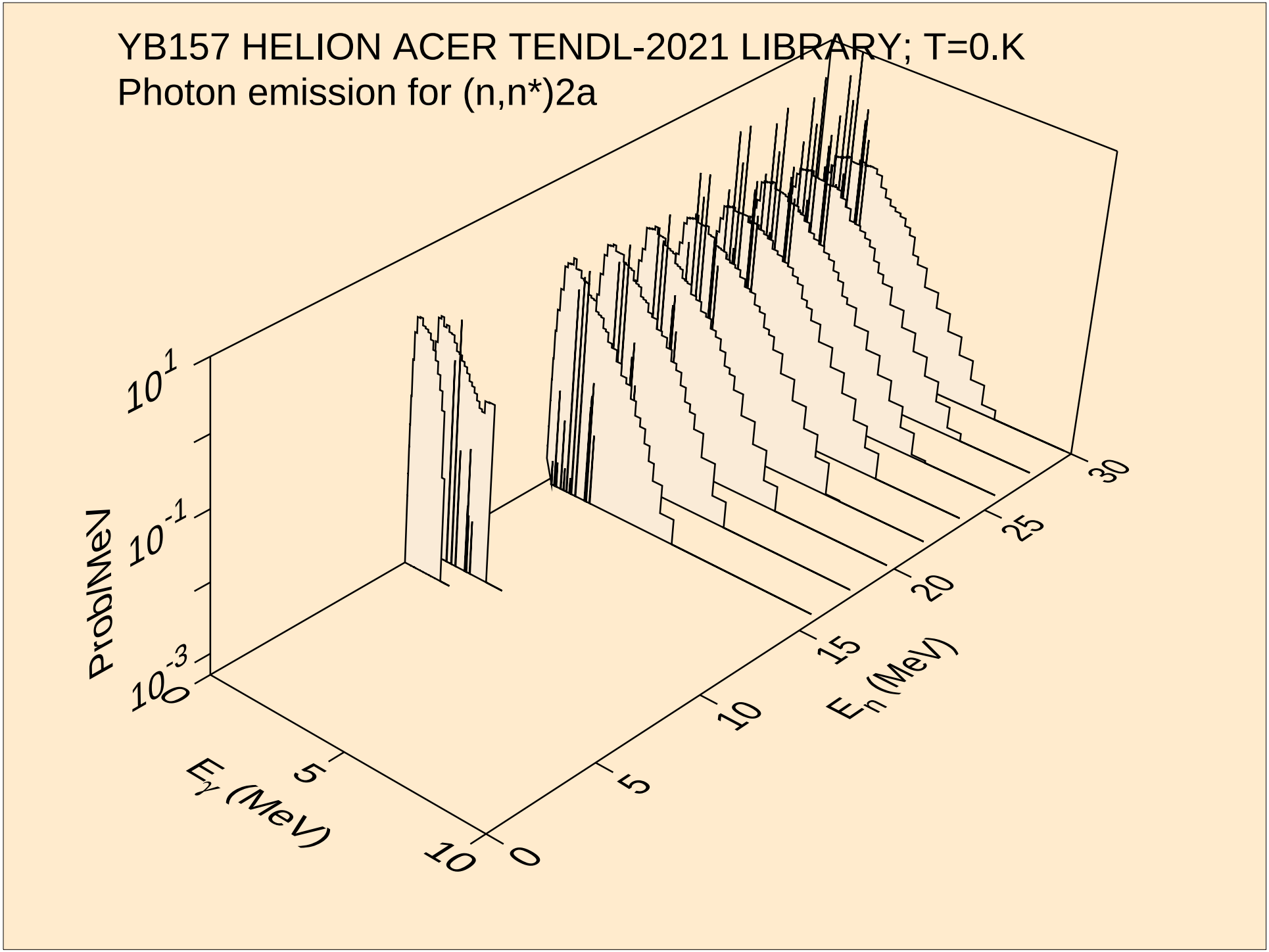

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,3n)
Prob/MeV
10^{2}
10^{0}
10^{-2}
E_γ (MeV)
0
2
4
6
E_n (MeV)
24
25
26
27
28
29
30

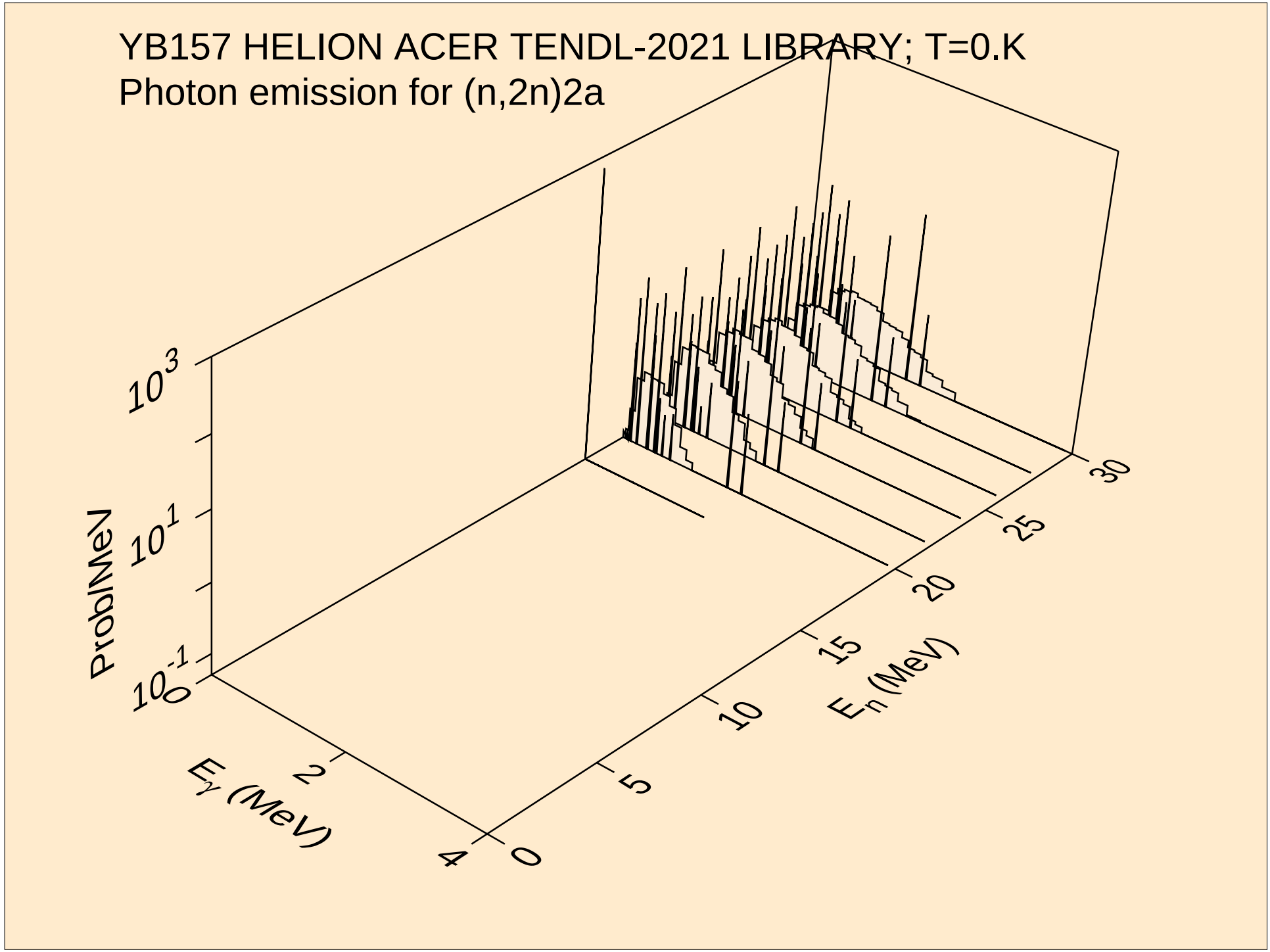

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,n*)a
Prob/MeV
10^0
10^-2
-5
0
5
10
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

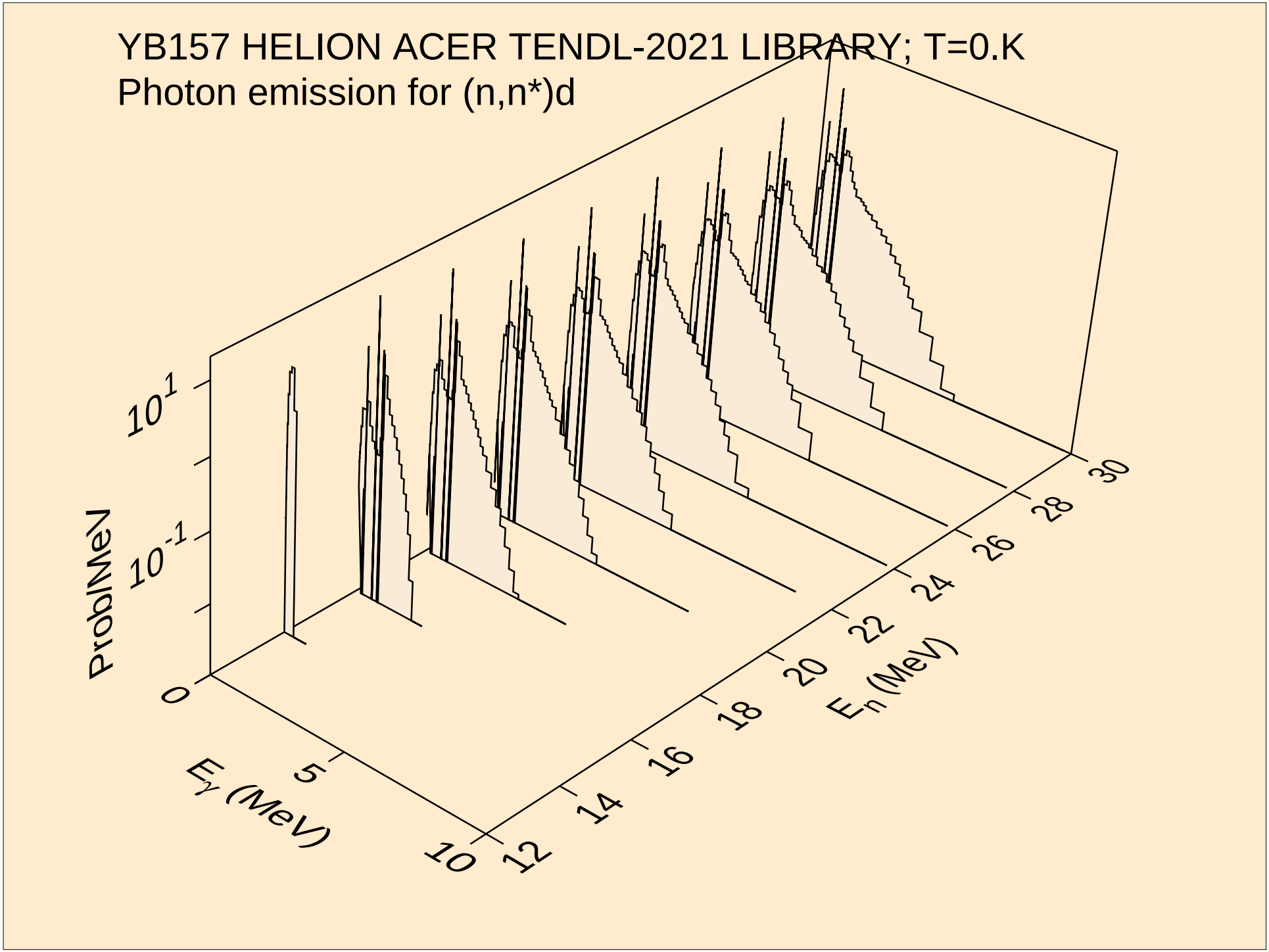

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,2n)a
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
2
4
6
E_γ (MeV)
5
10
15
20
25
30
E_n (MeV)

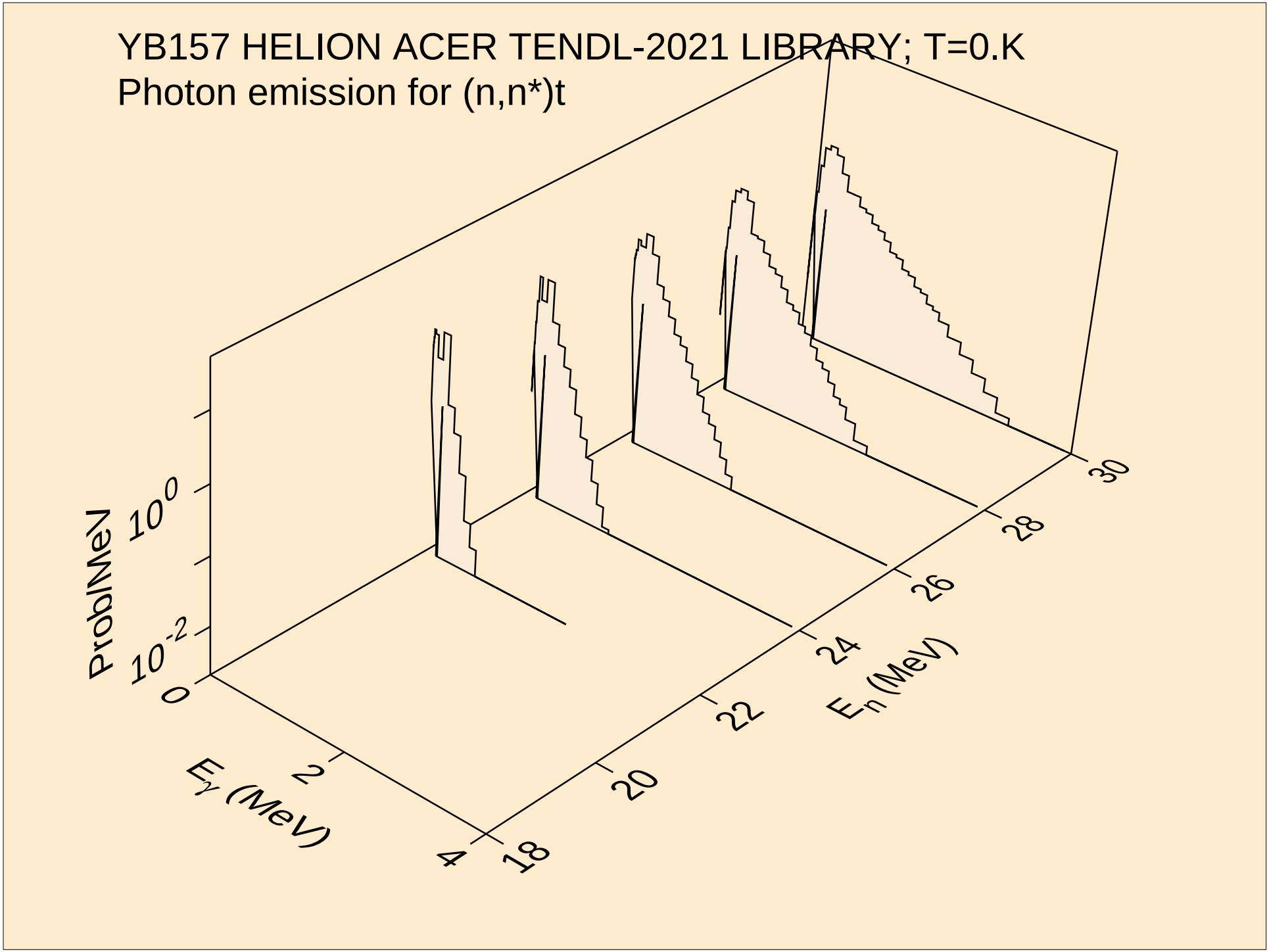

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,3n)a
Prob/MeV
10^{2}
10^{0}
10^{-2}
E_γ (MeV)
0
2
4
E_n (MeV)
18
20
22
24
26
28
30

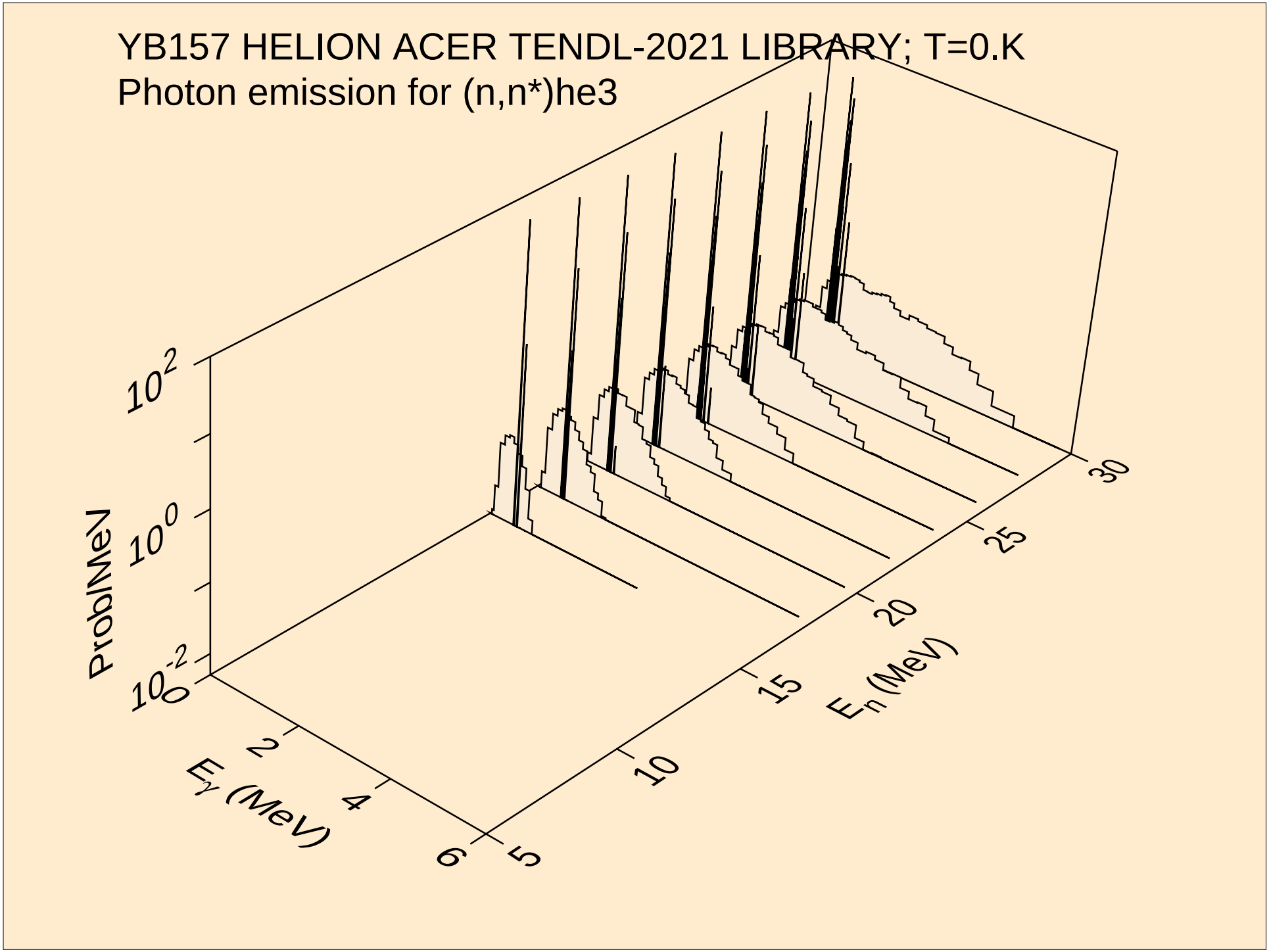

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,n*)p
Prob/MeV
10^0
10^-2
0
5
10
E_γ (MeV)
5
10
15
20
25
30
E_n (MeV)

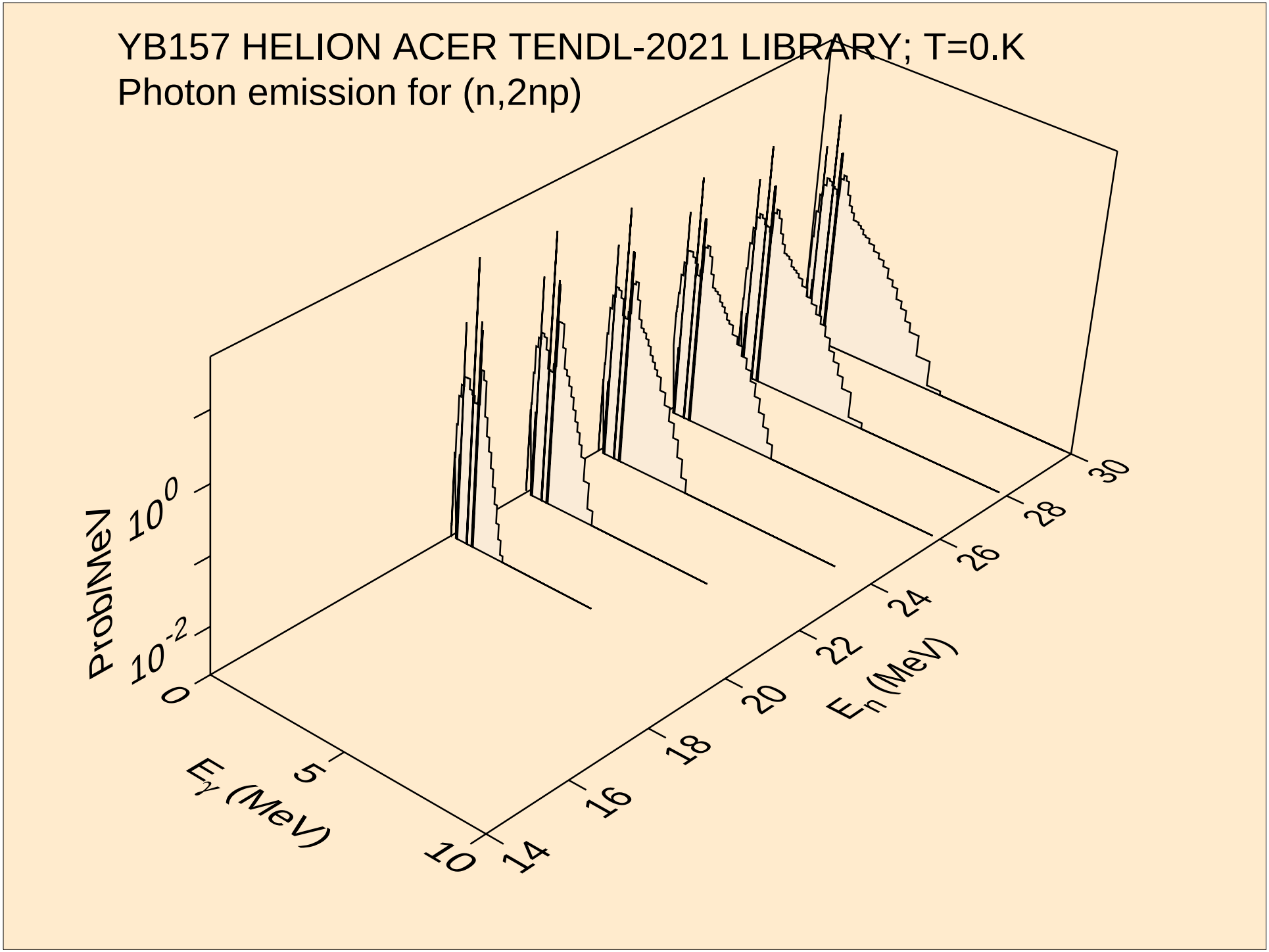

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,n*)2a
Prob/MeV
10^{1}
10^{-1}
10^{-3}
E_γ (MeV)
0
5
10
E_n (MeV)
0
5
10
15
20
25
30

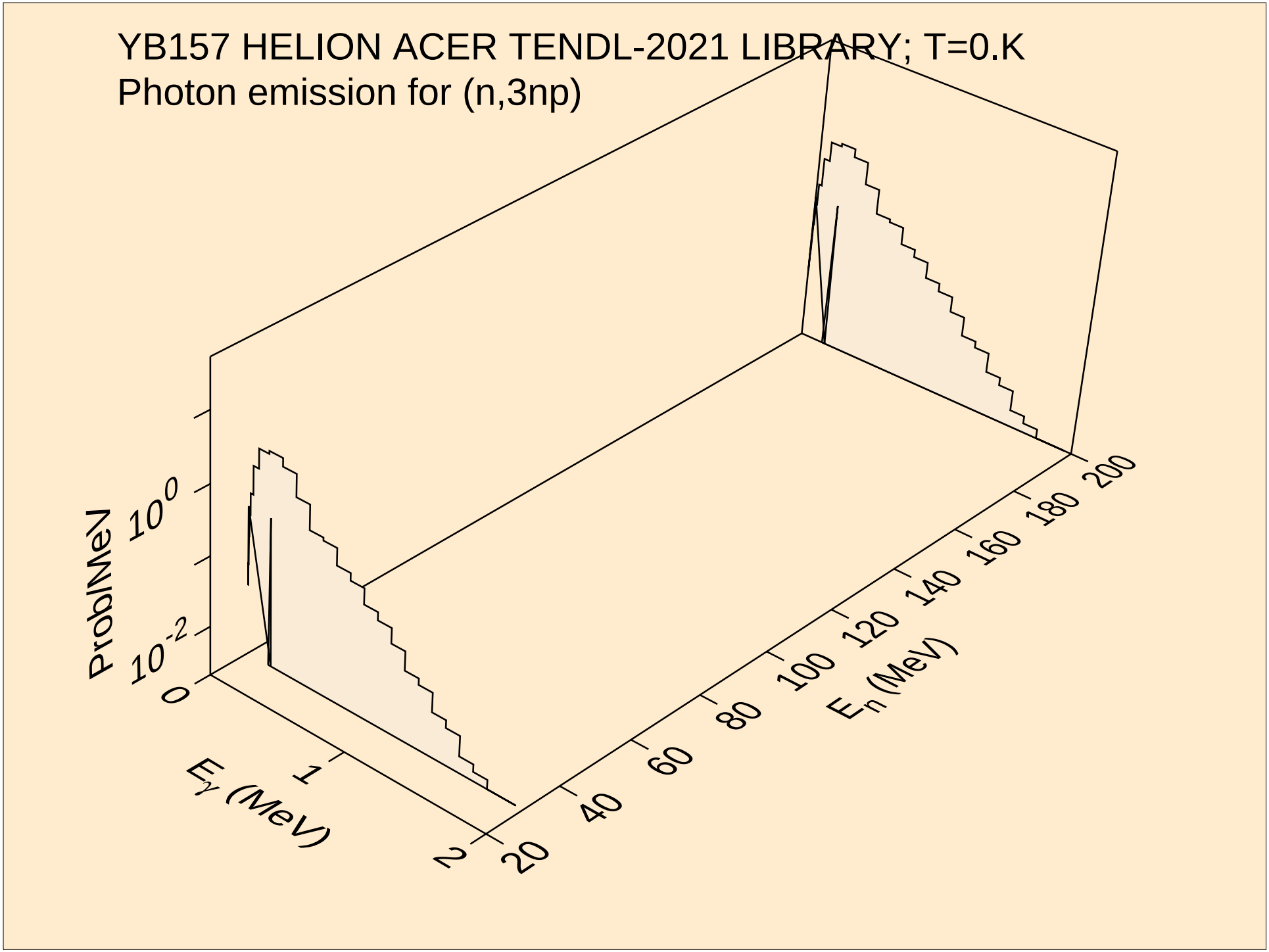

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,2n)2a
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

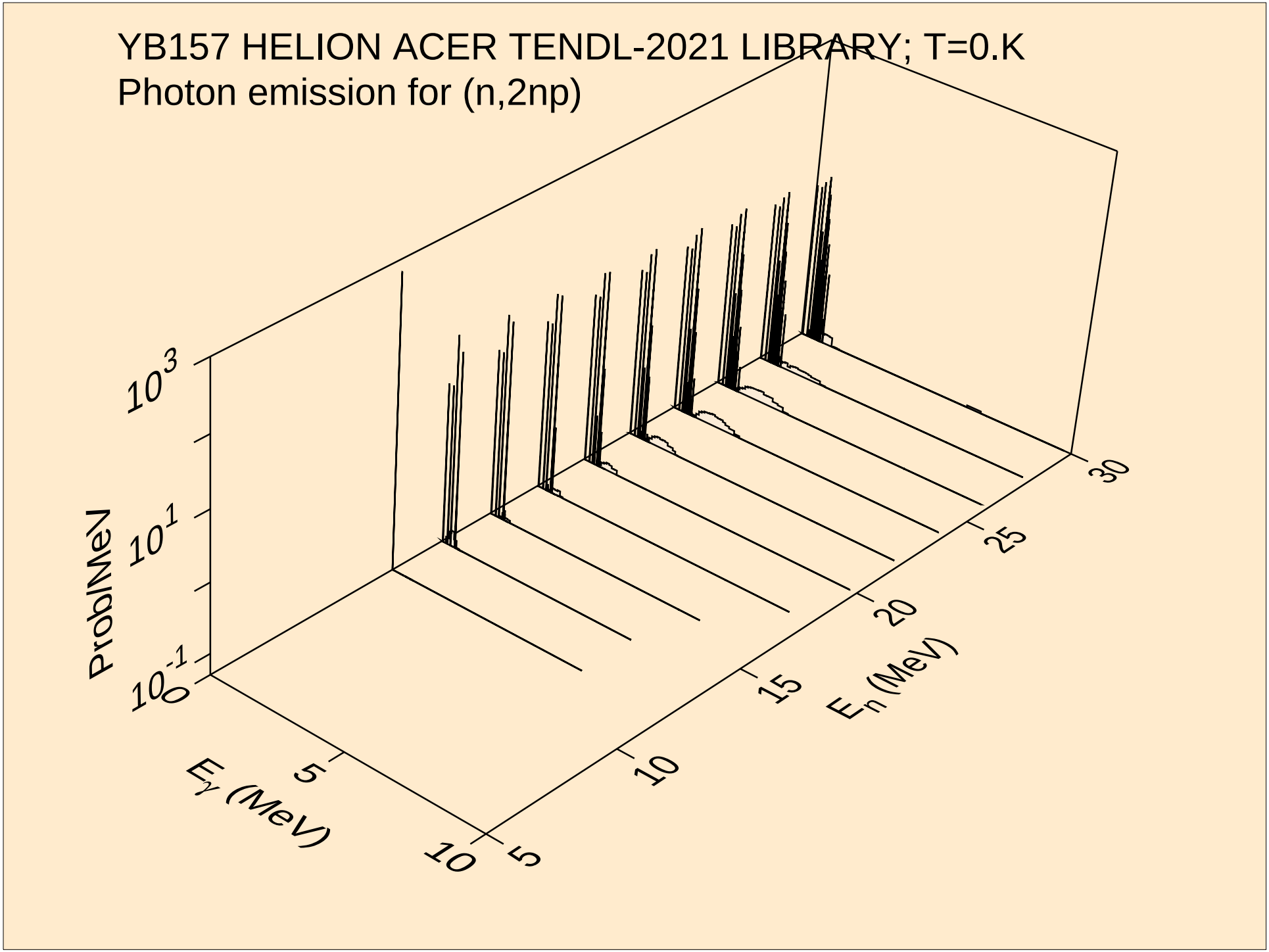

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,n*)d
Prob/MeV
10^1
10^-1
0
5
10
Eγ (MeV)
12
14
16
18
20
22
24
26
28
30
En (MeV)

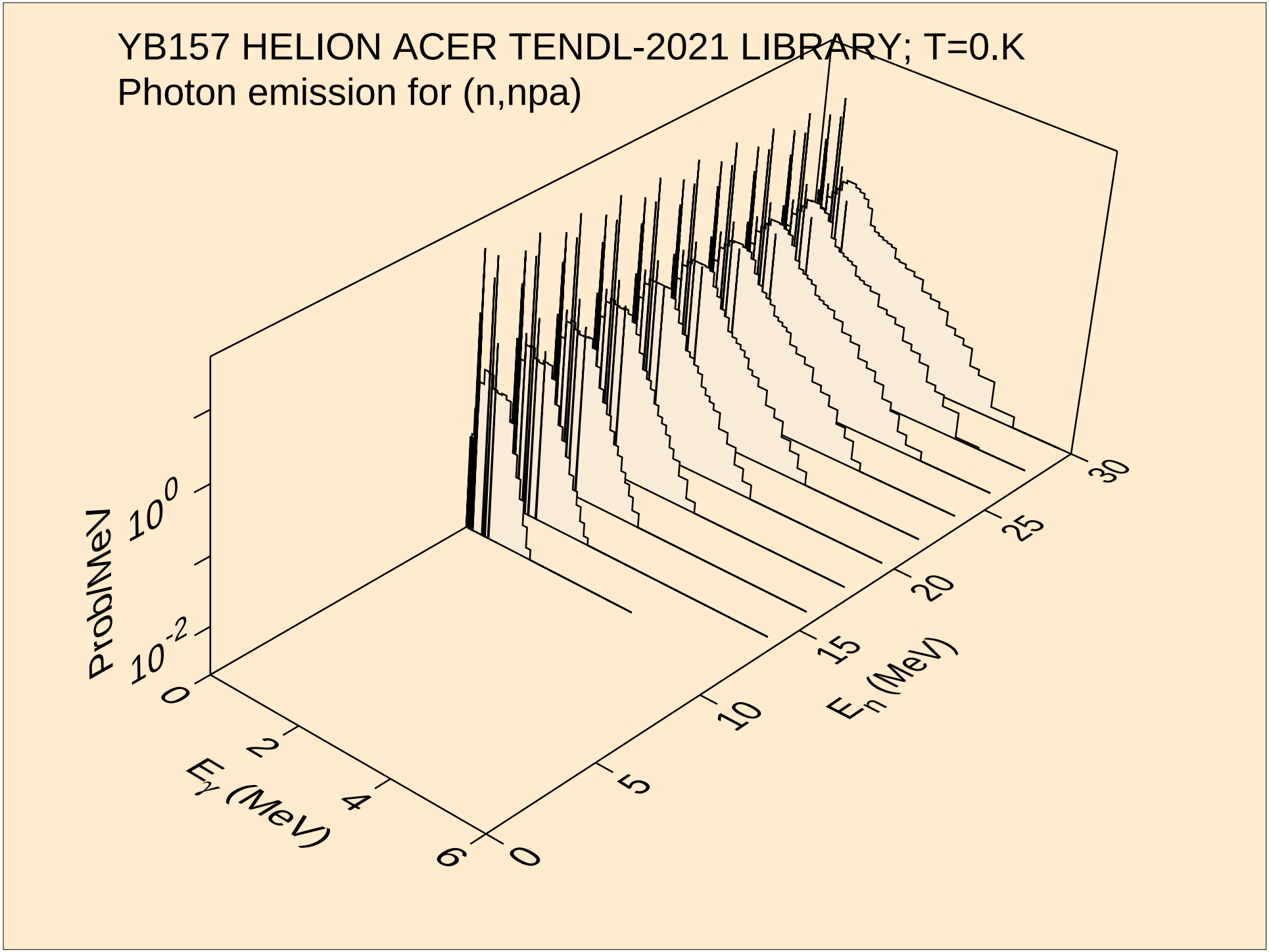

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,n*)t
Prob/MeV
10^0
10^-2
0
2
4
E_γ (MeV)
18
20
22
24
26
28
30
E_n (MeV)

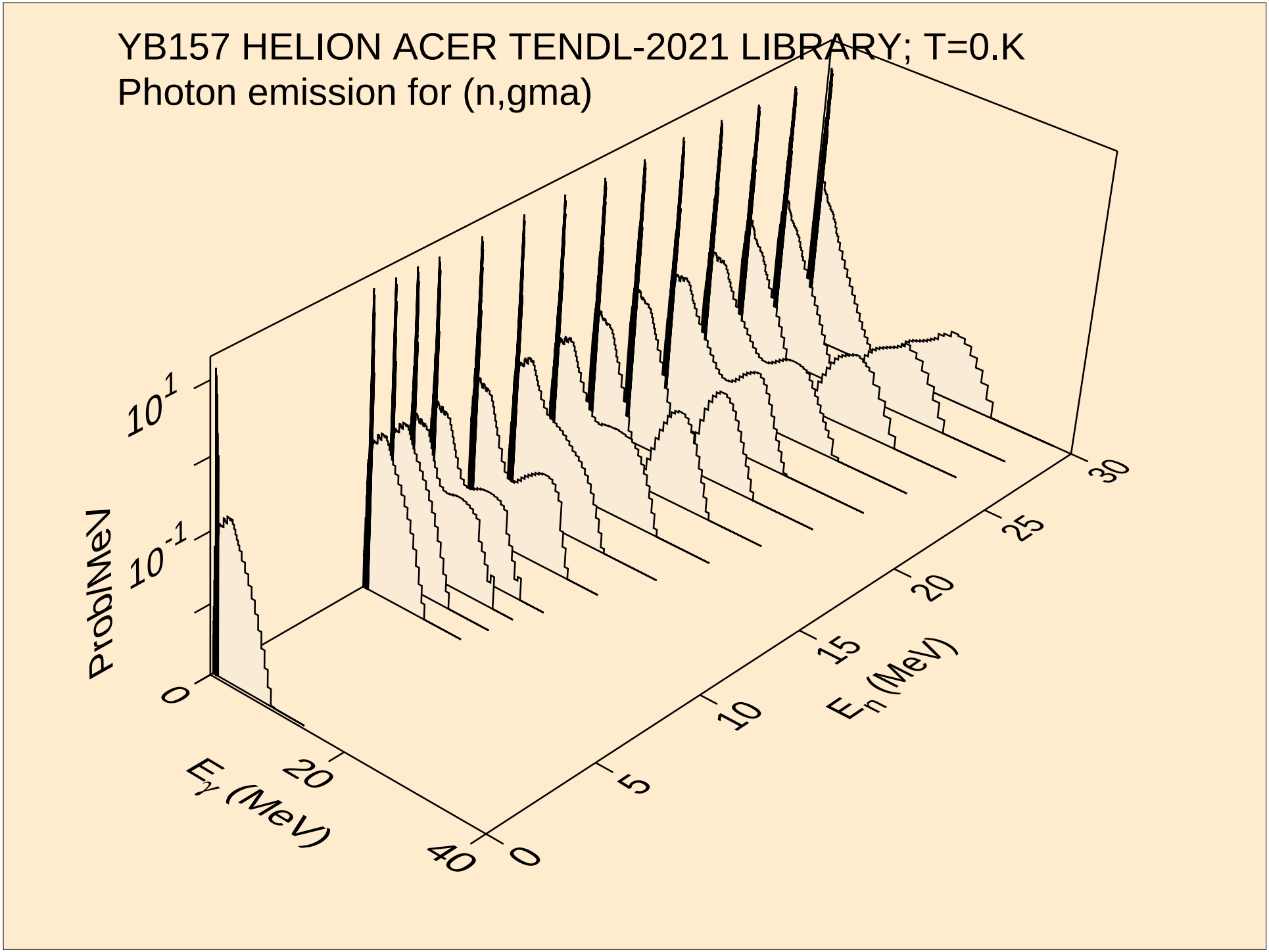

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,n*)he3
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
2
4
6
E_γ (MeV)
5
10
15
20
25
30
E_n (MeV)

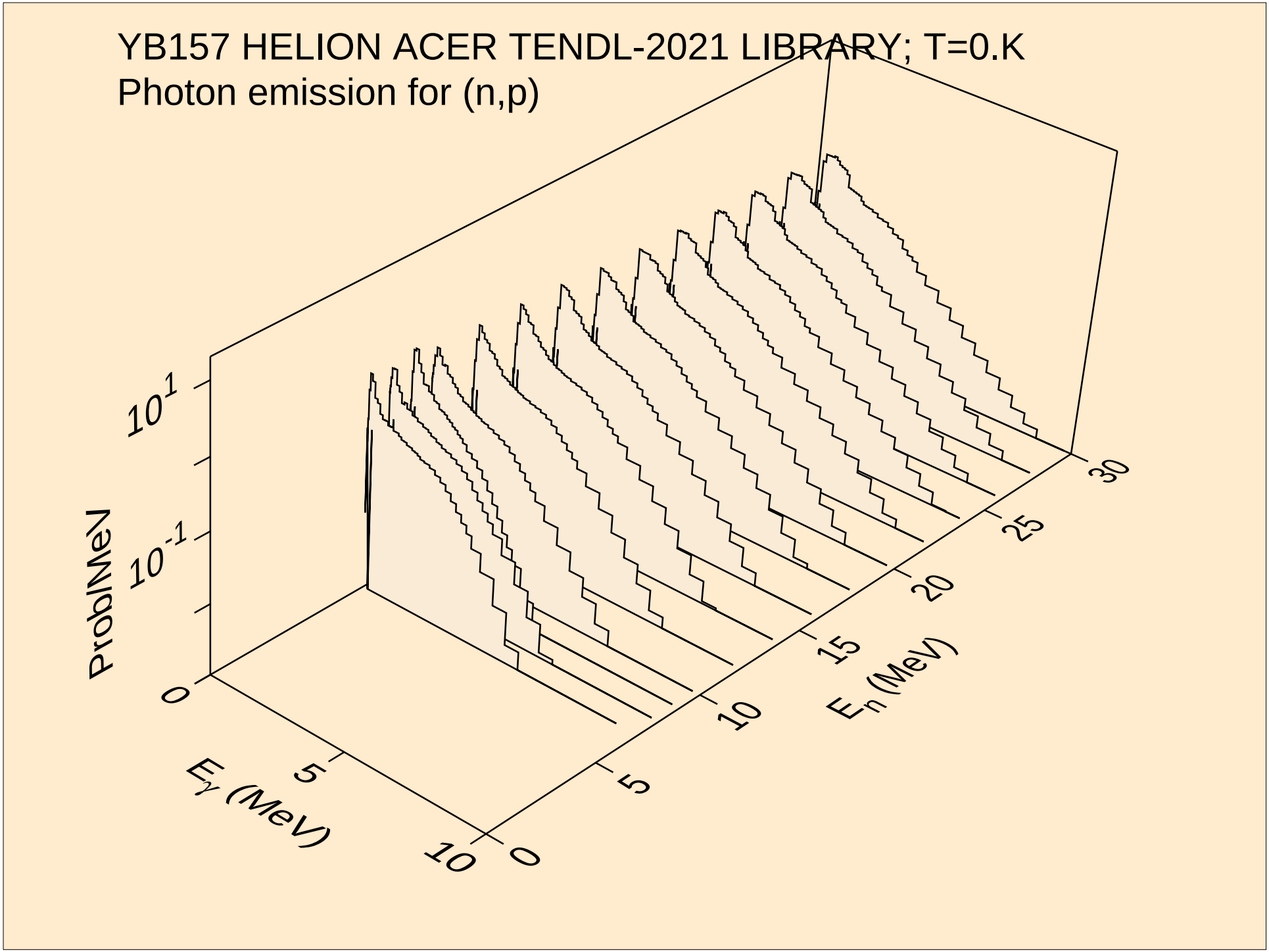

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,2np)
Prob/MeV
10^0
10^-2
0
5
10
E_γ (MeV)
14
16
18
20
22
24
26
28
30
E_n (MeV)

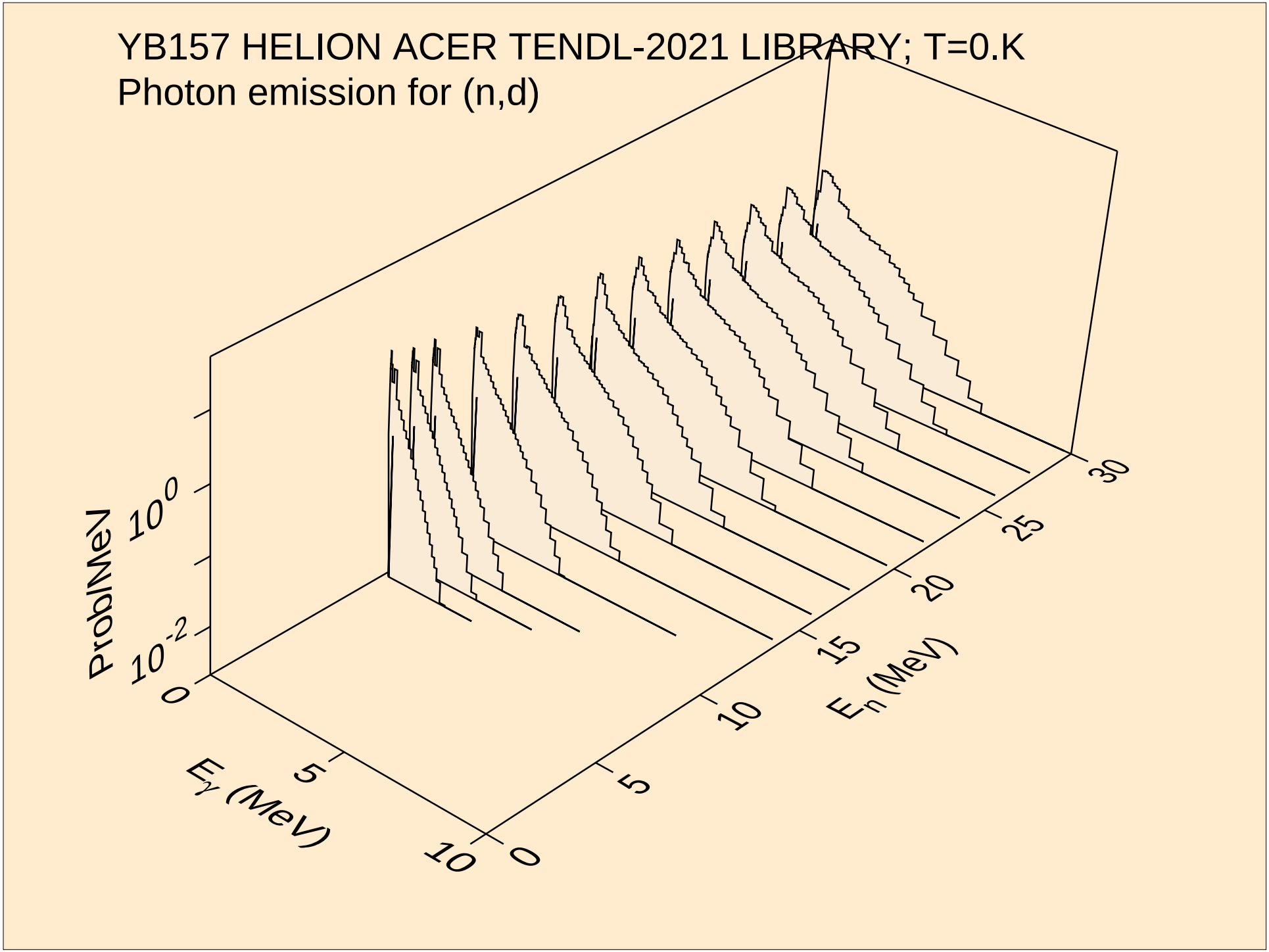

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,3np)
Prob/MeV
10^0
10^-2
0
1
2
E_γ (MeV)
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

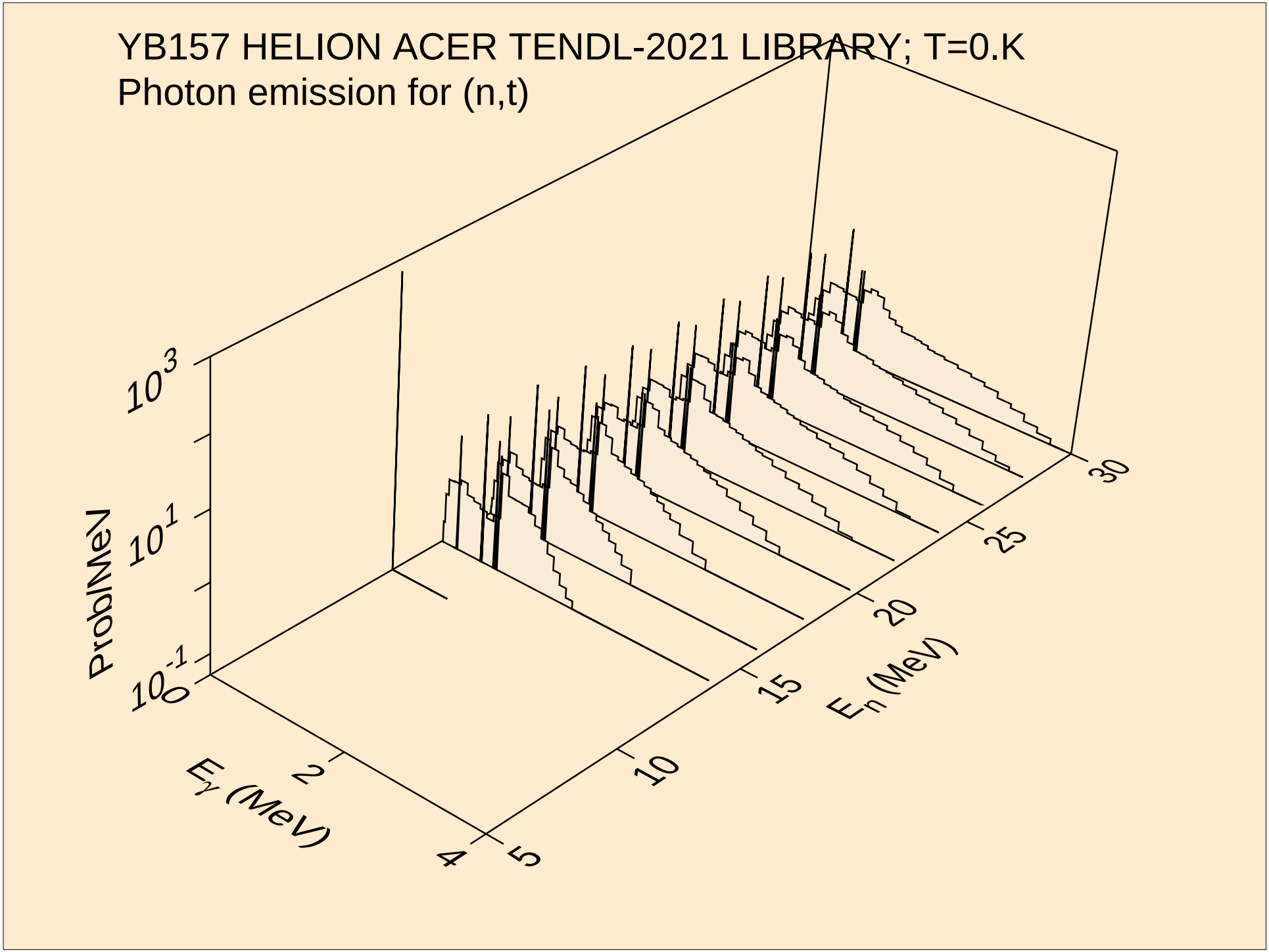

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,2np)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
5
10
E_γ (MeV)
5
10
15
20
25
30
E_n (MeV)

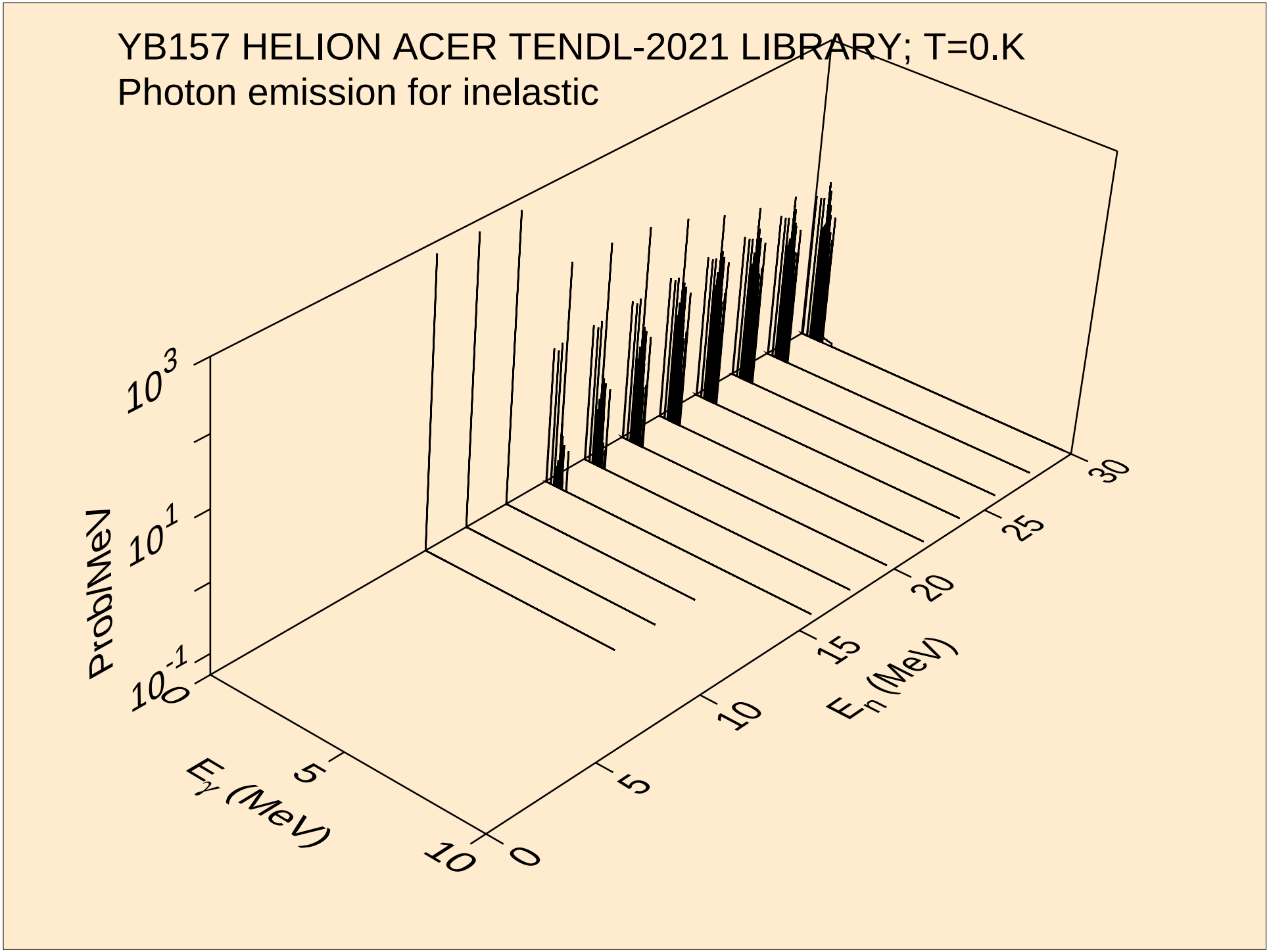

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,npa)
Prob/MeV
10^{0}
10^{-2}
0
2
4
6
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

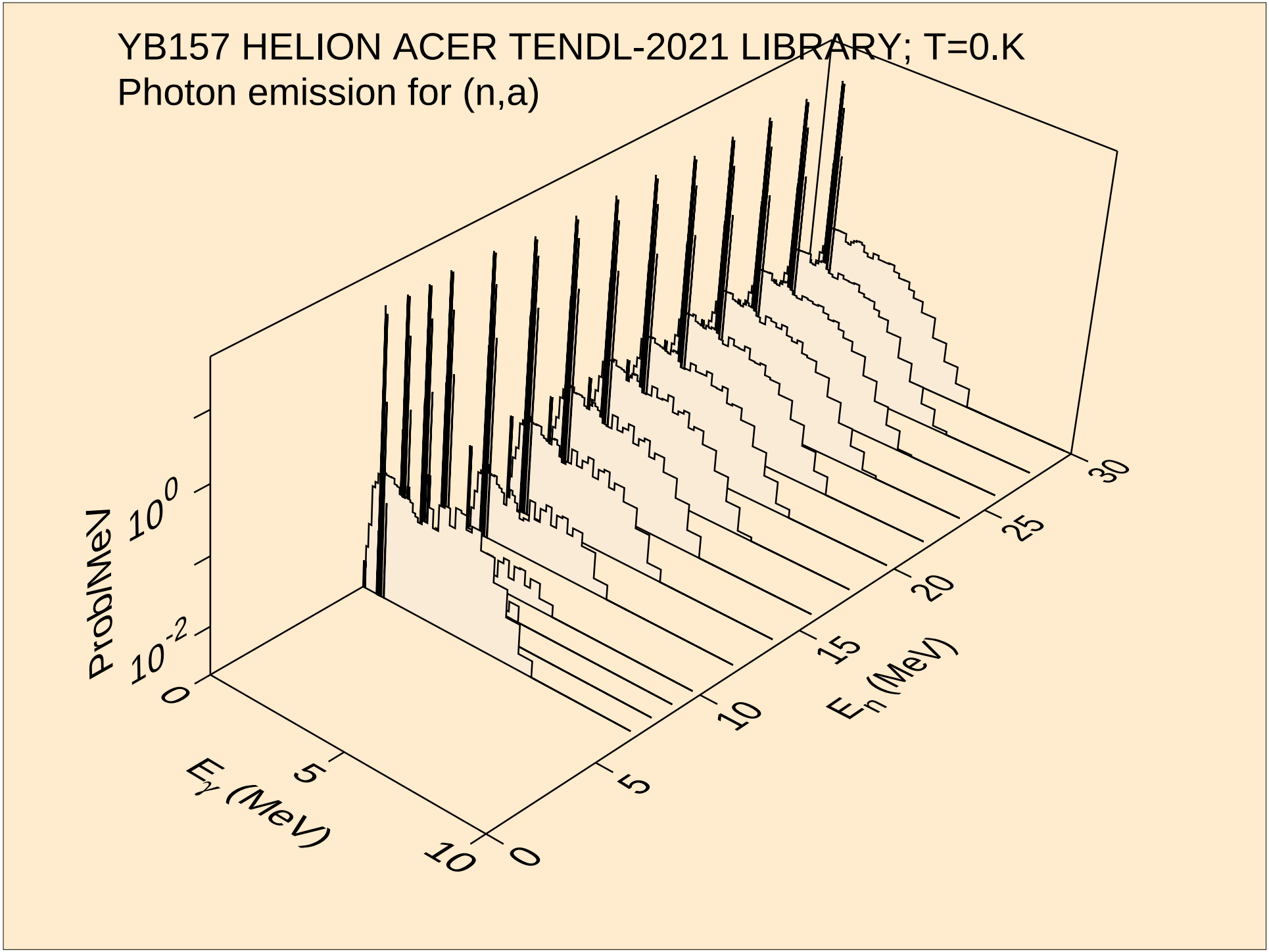

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,gma)
Prob/MeV
10^{1}
10^{-1}
0
20
40
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

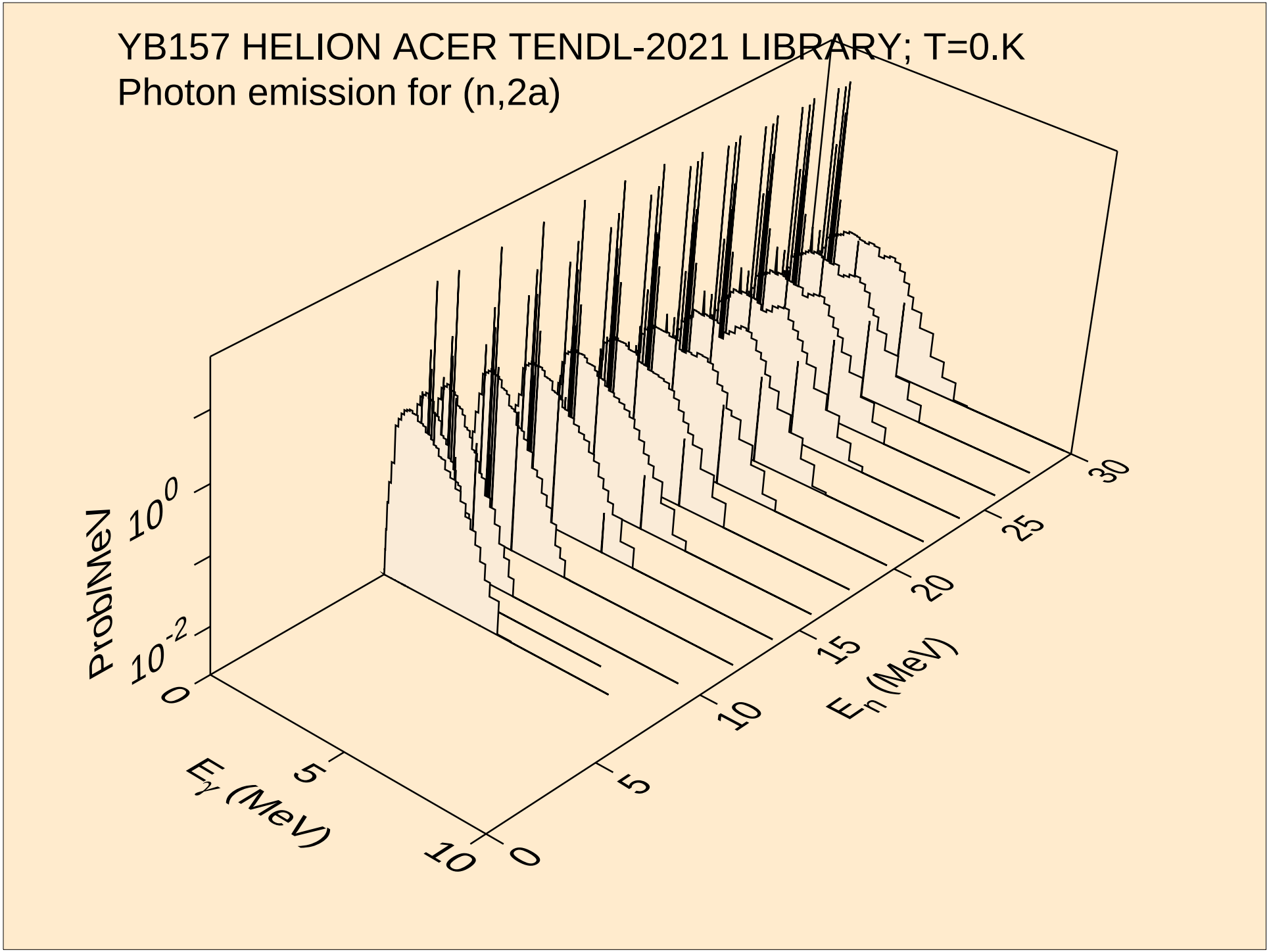

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,p)
Prob/MeV
10^{1}
10^{-1}
0
5
10
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

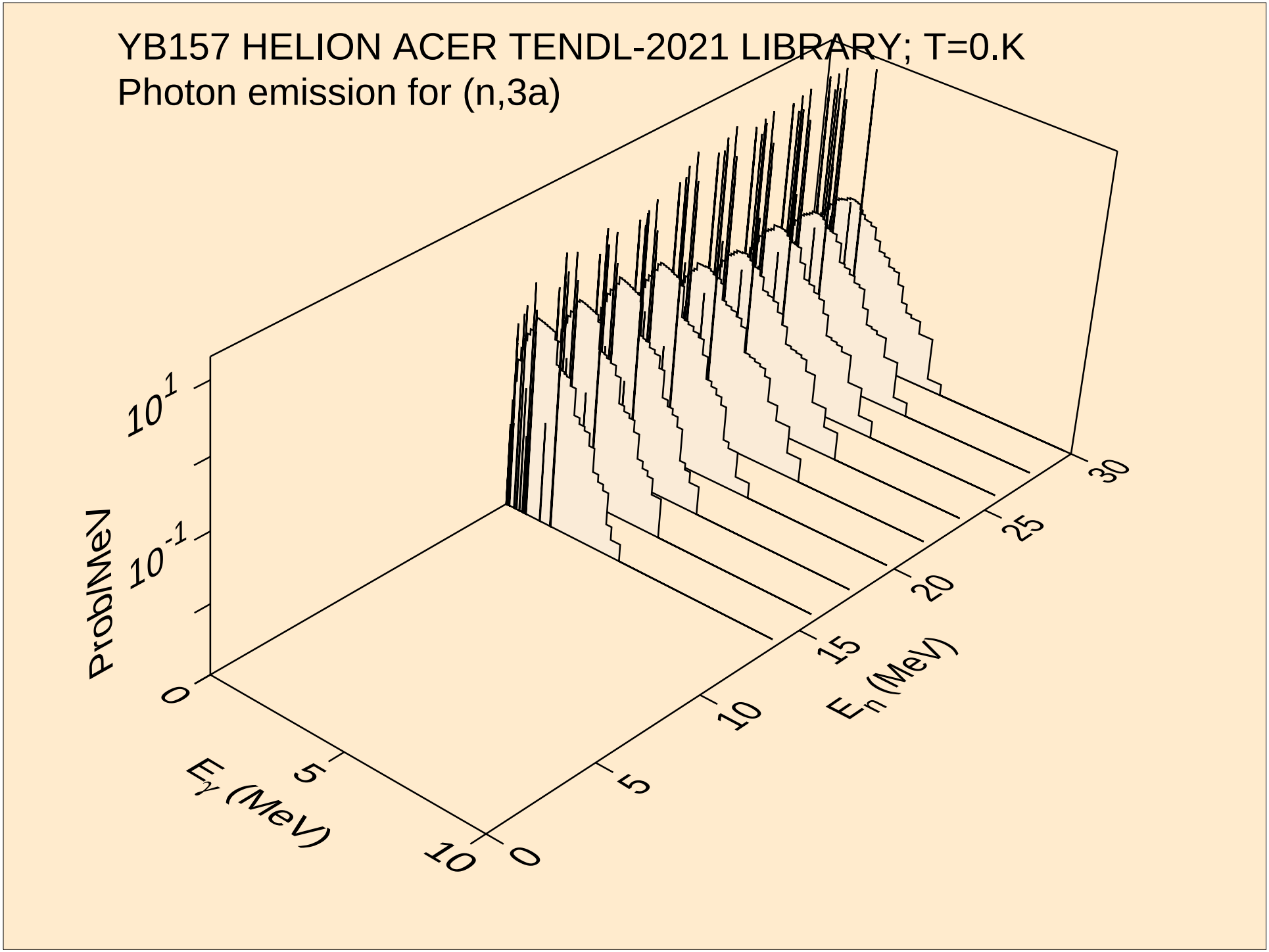

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,d)
Prob/MeV
10^0
10^-2
0
5
10
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

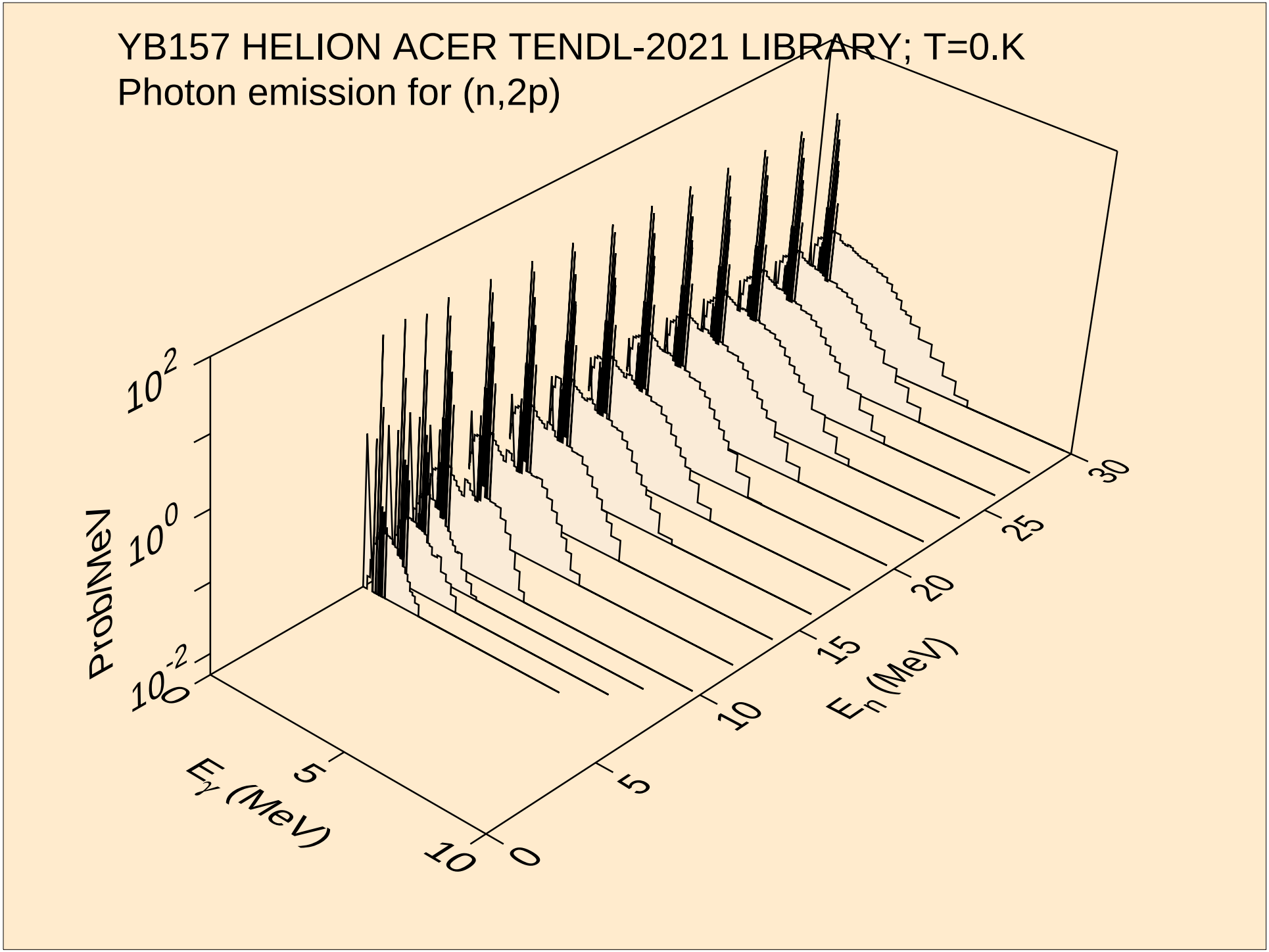

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,t)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
E_γ (MeV)
5
10
15
20
25
30
E_n (MeV)

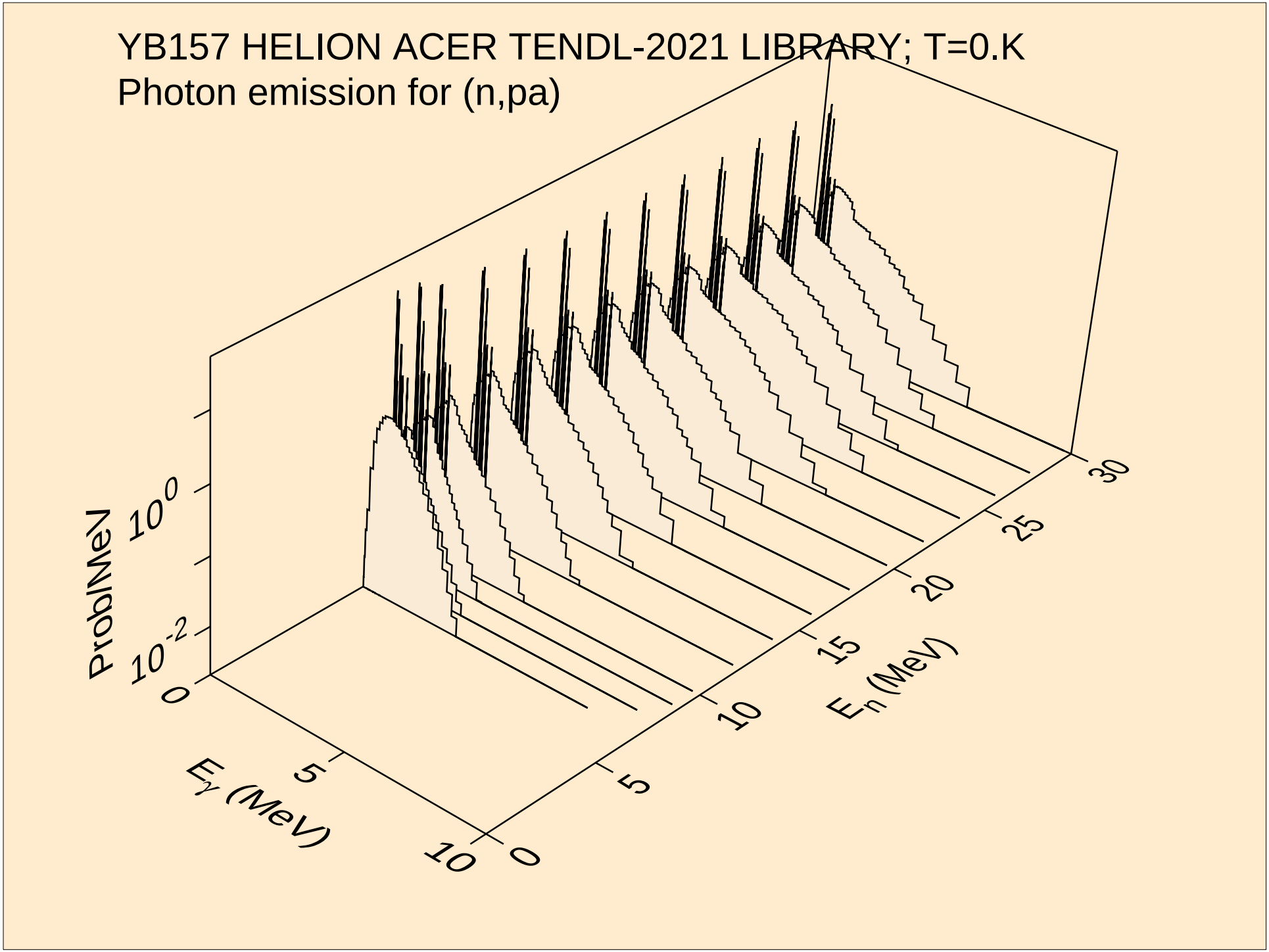

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for inelastic
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
5
10
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

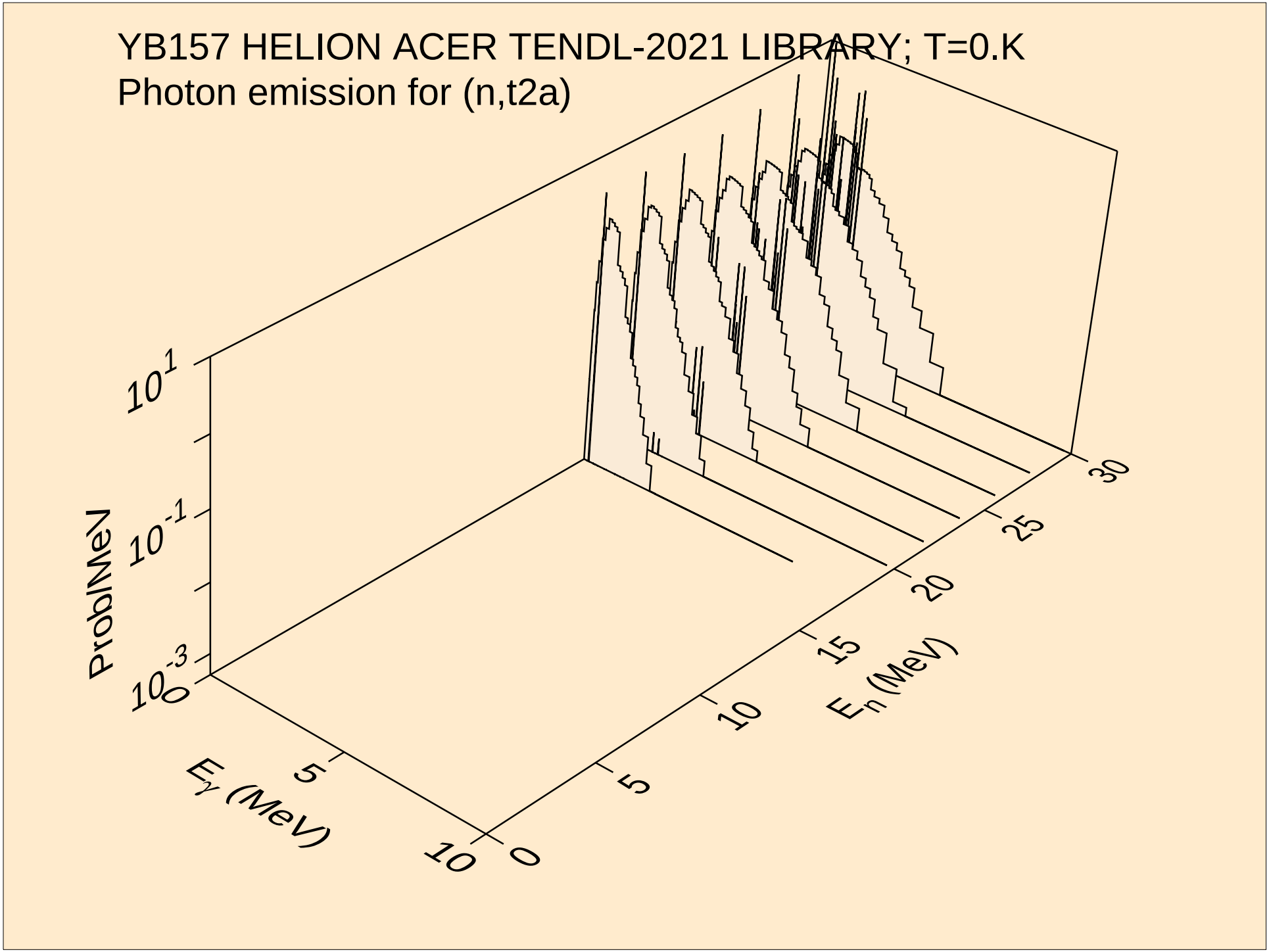

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,a)
Prob/MeV
10^{0}
10^{-2}
0
E_γ (MeV)
5
10
0
5
10
15
20
25
30
E_n (MeV)

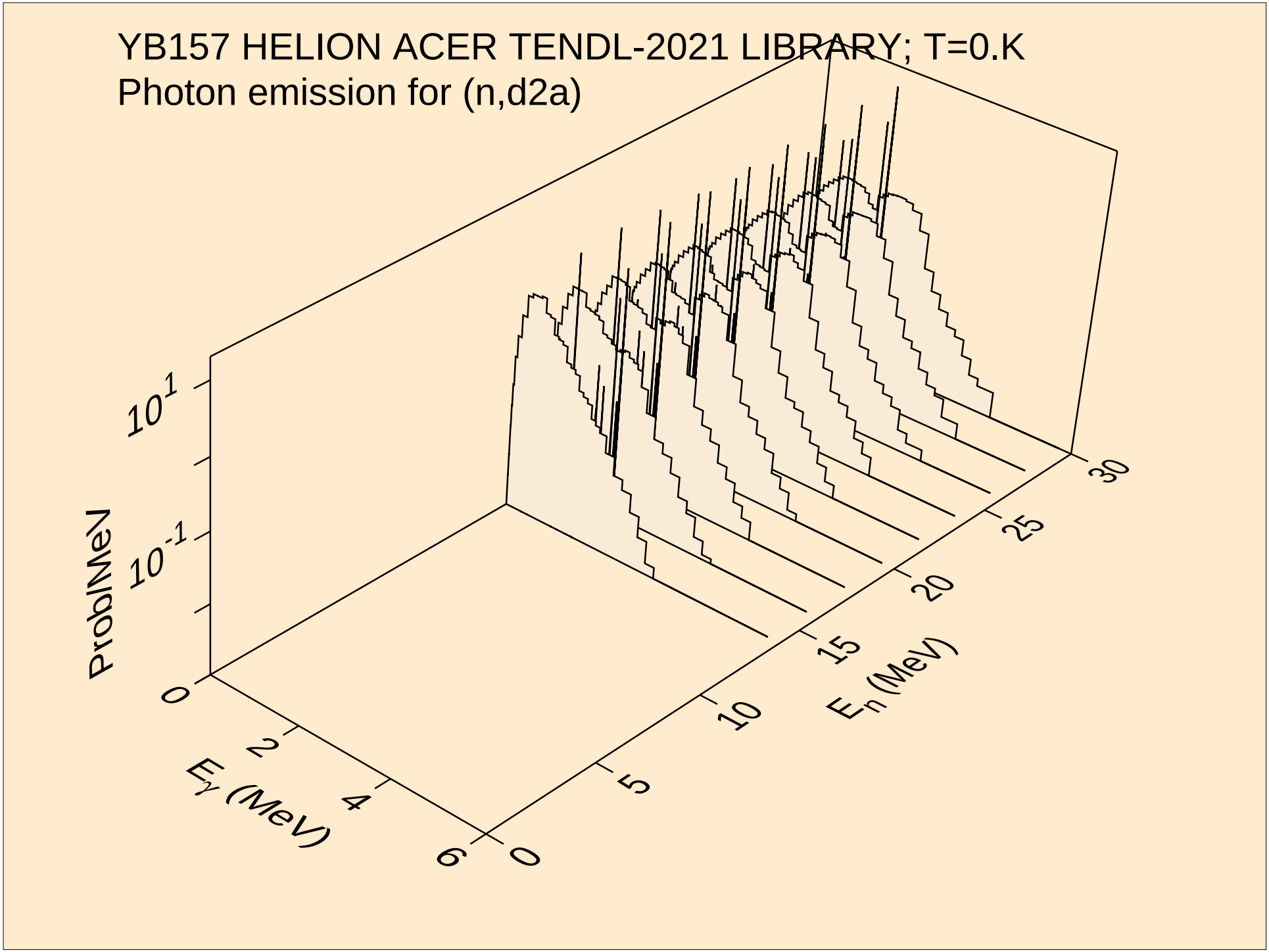

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,2a)
Prob/MeV
10^0
10^-2
0
5
10
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

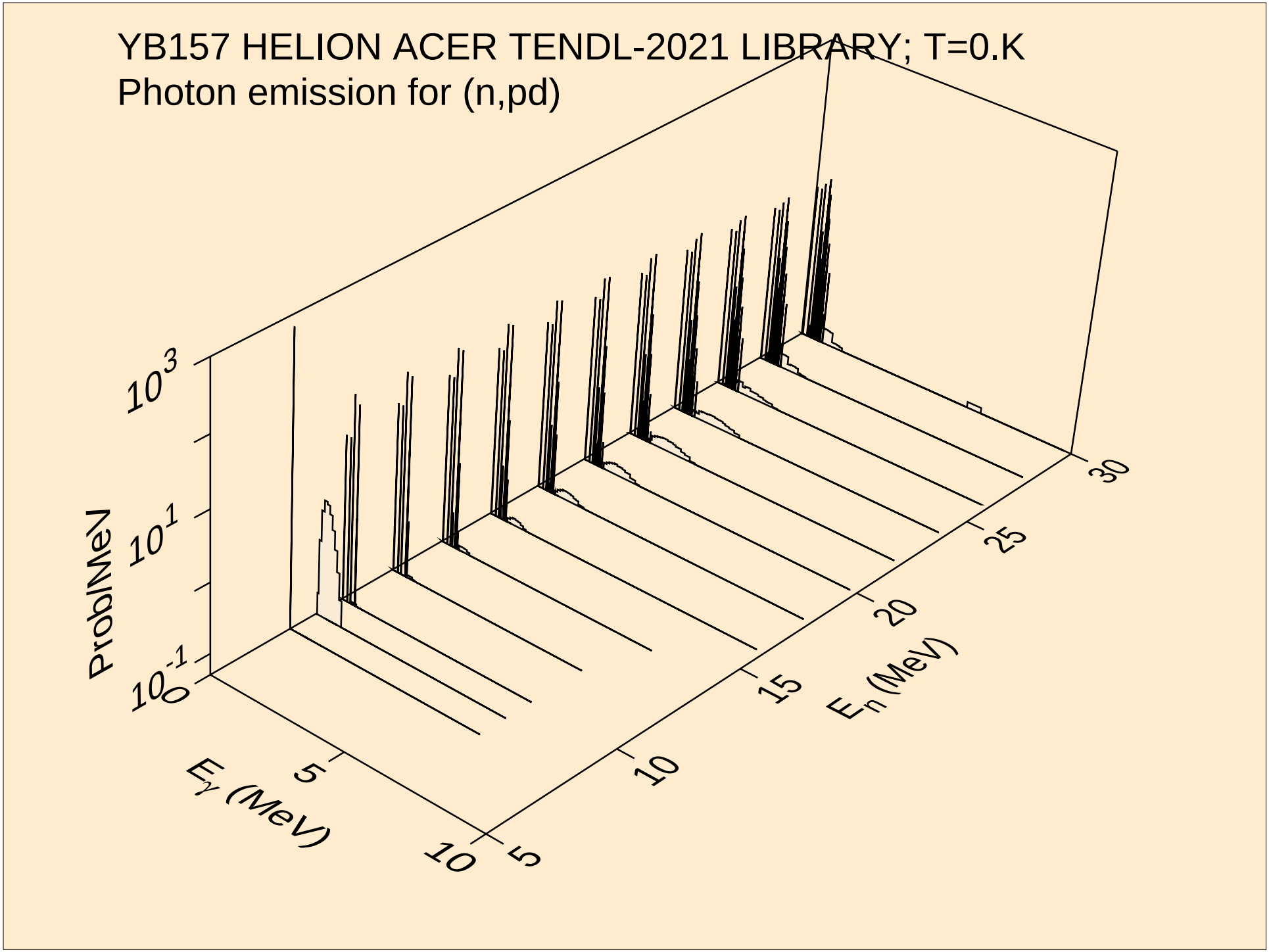

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,3a)
Prob/MeV
10^1
10^-1
0
E_γ (MeV)
5
10
0
5
10
15
20
25
30
E_n (MeV)

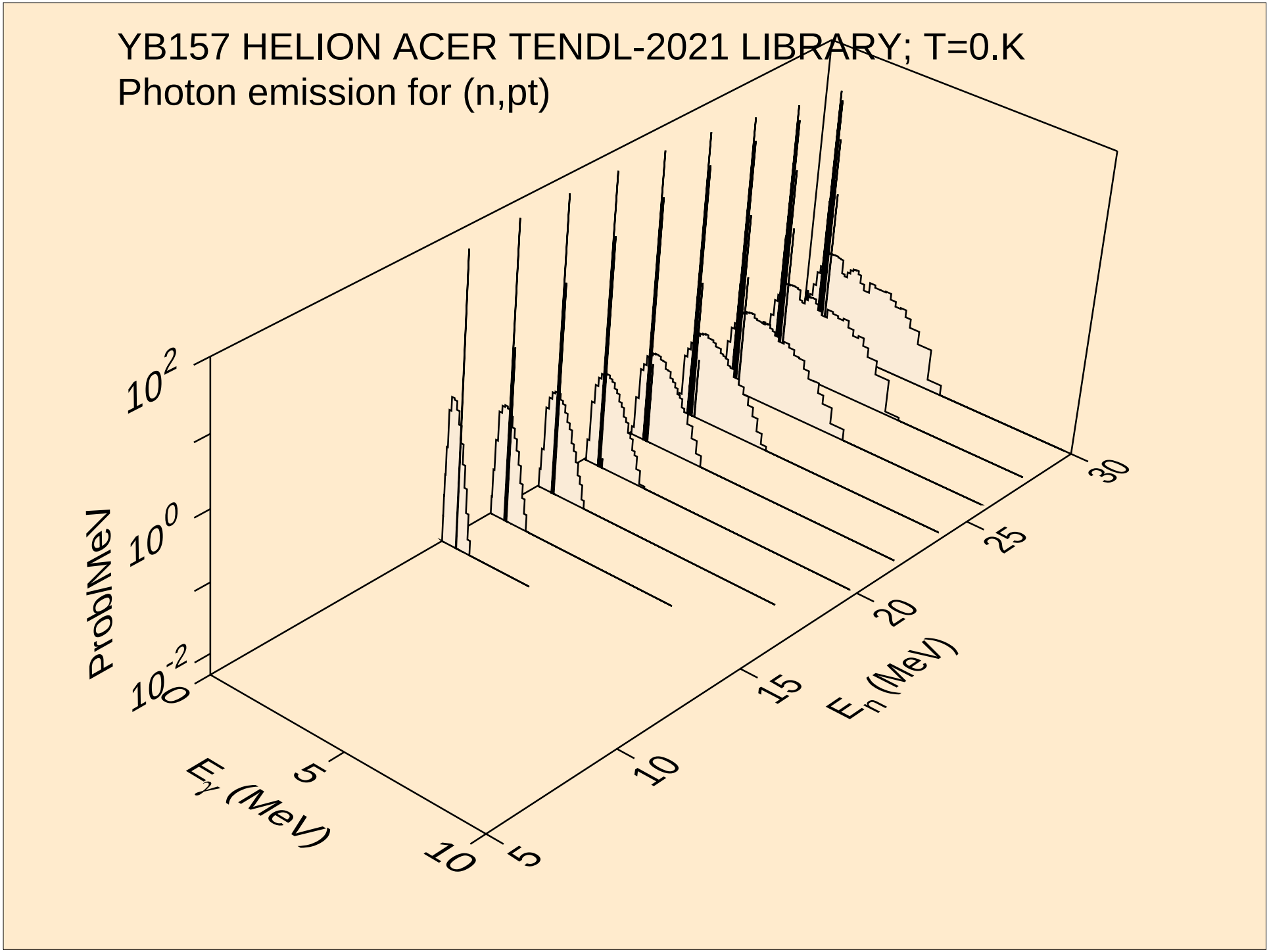

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,2p)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

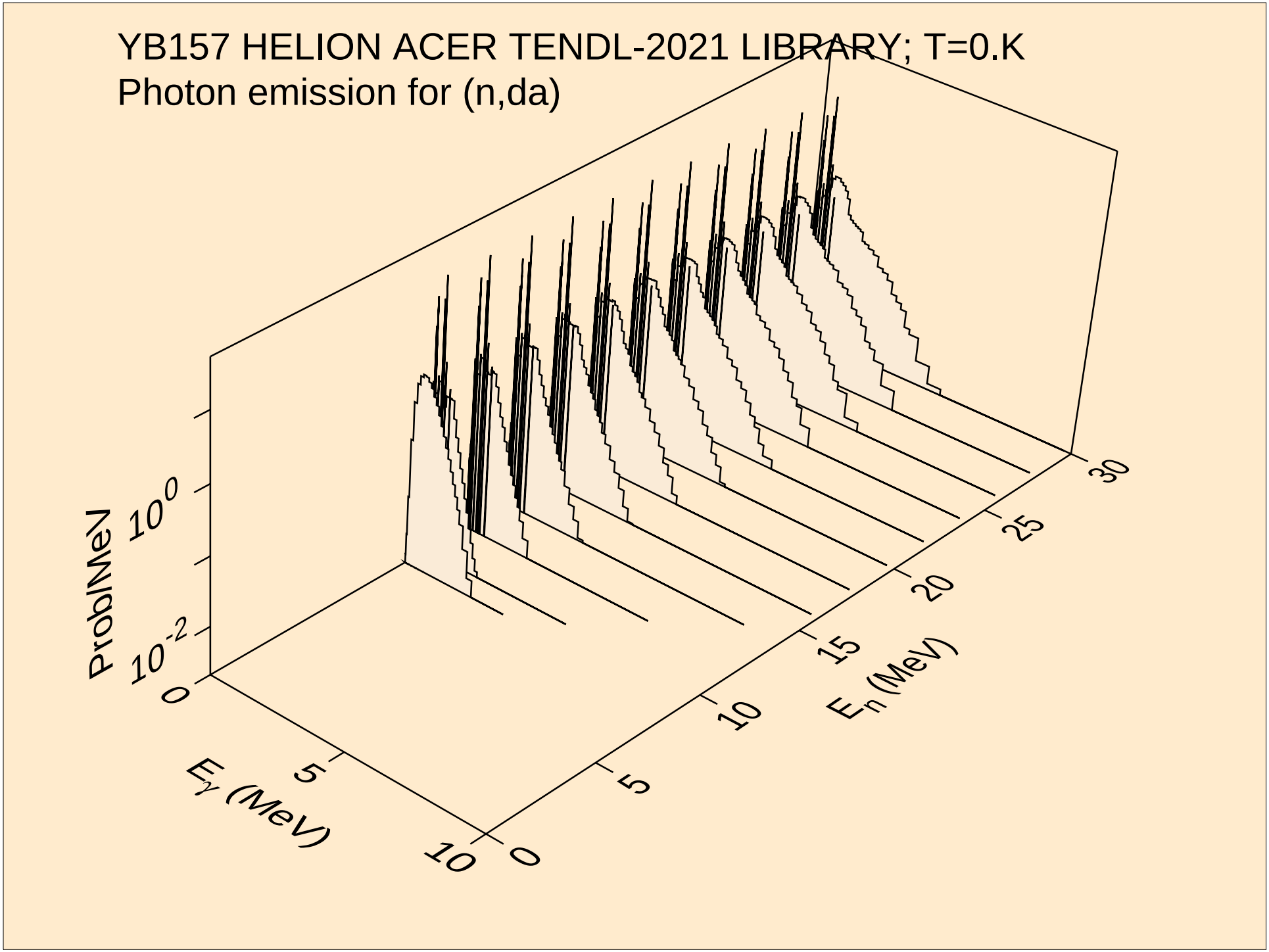

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,pa)
Prob/MeV
10^{0}
10^{-2}
0
E_γ (MeV)
5
10
0
5
10
15
20
25
30
E_n (MeV)

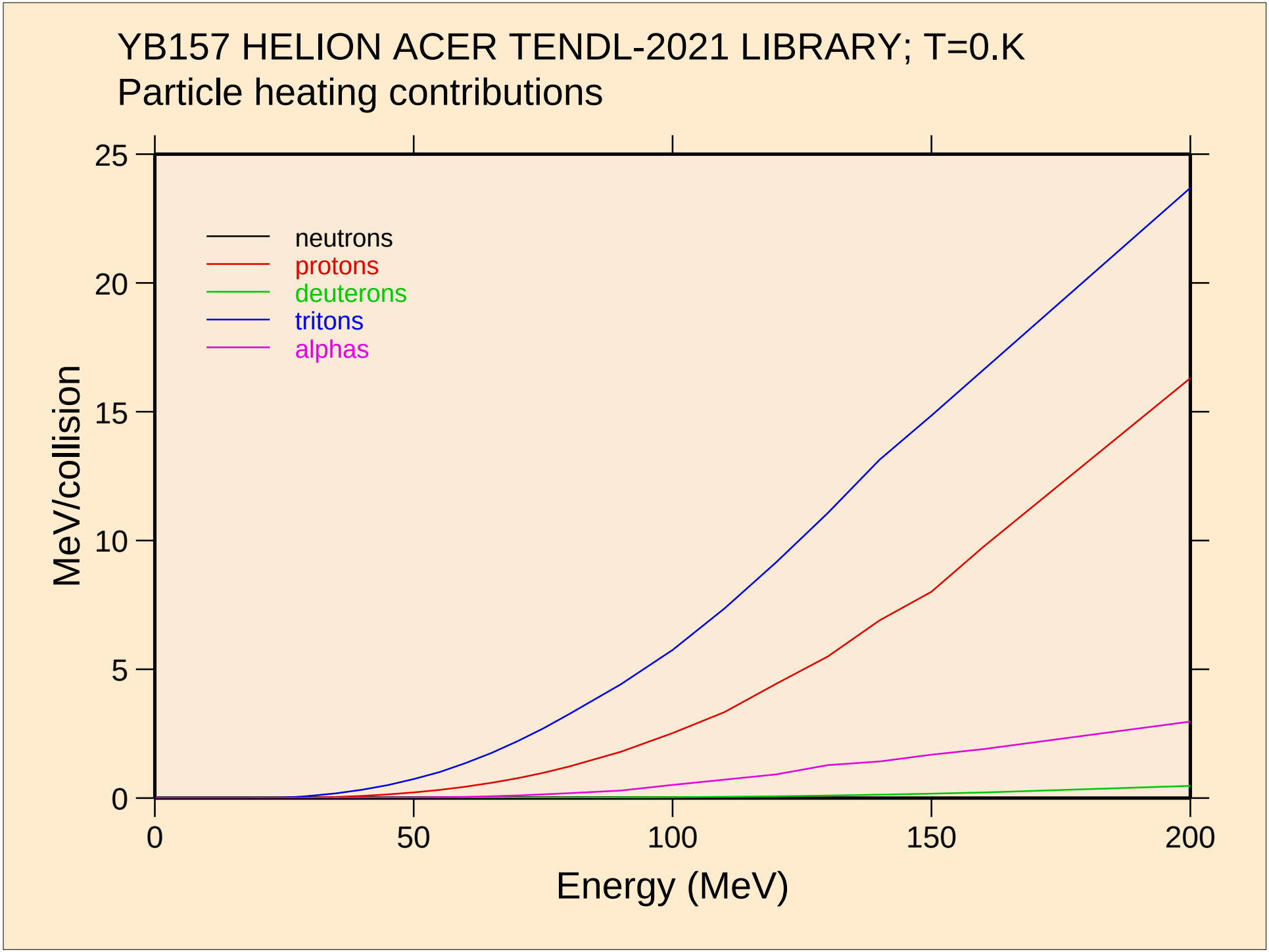

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,t2a)
Prob/MeV
10^{1}
10^{-1}
10^{-3}
E_γ (MeV)
0
5
10
E_n (MeV)
0
5
10
15
20
25
30

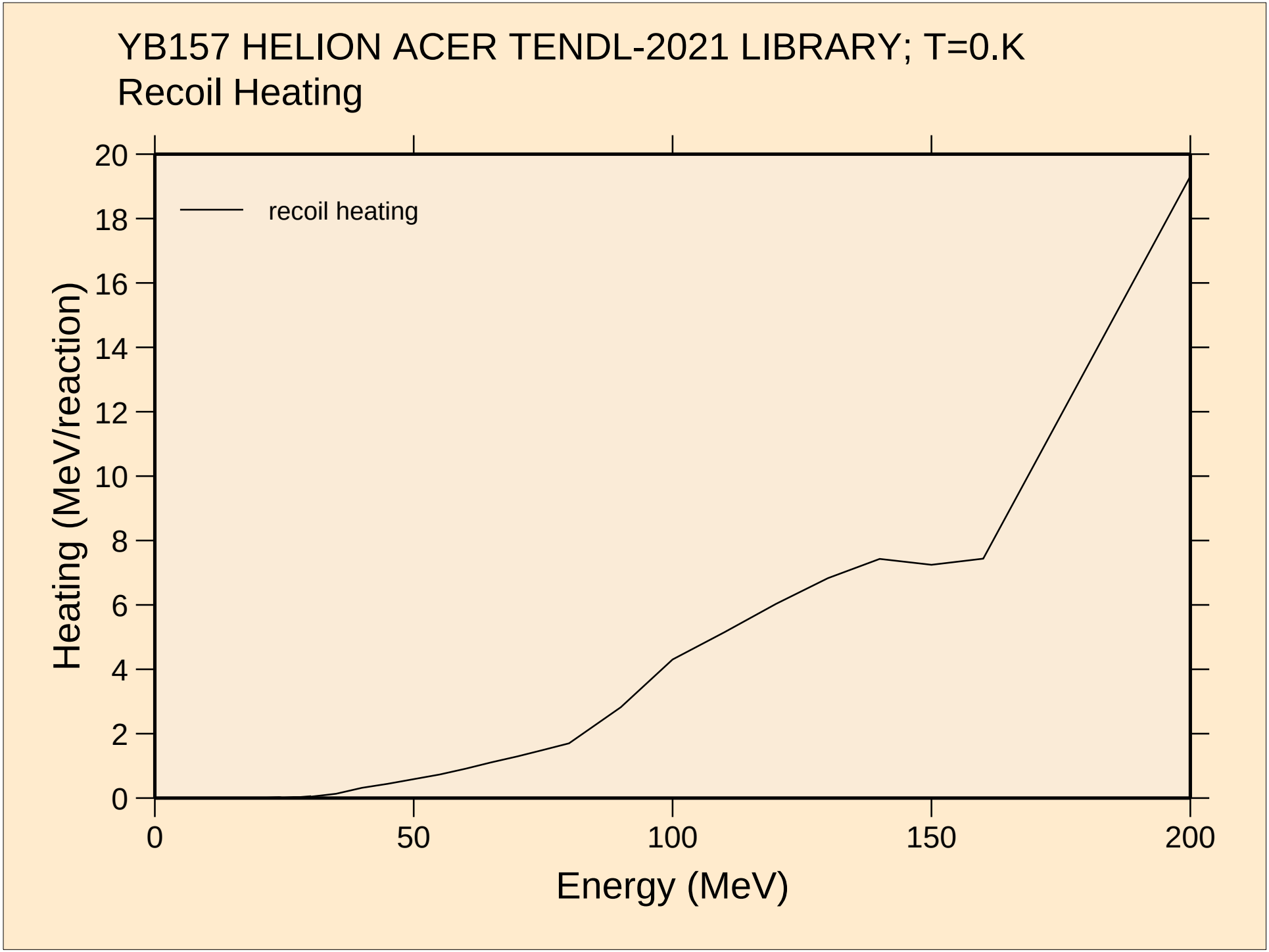

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,d2a)
Prob/MeV
10^{1}
10^{-1}
0
2
4
6
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

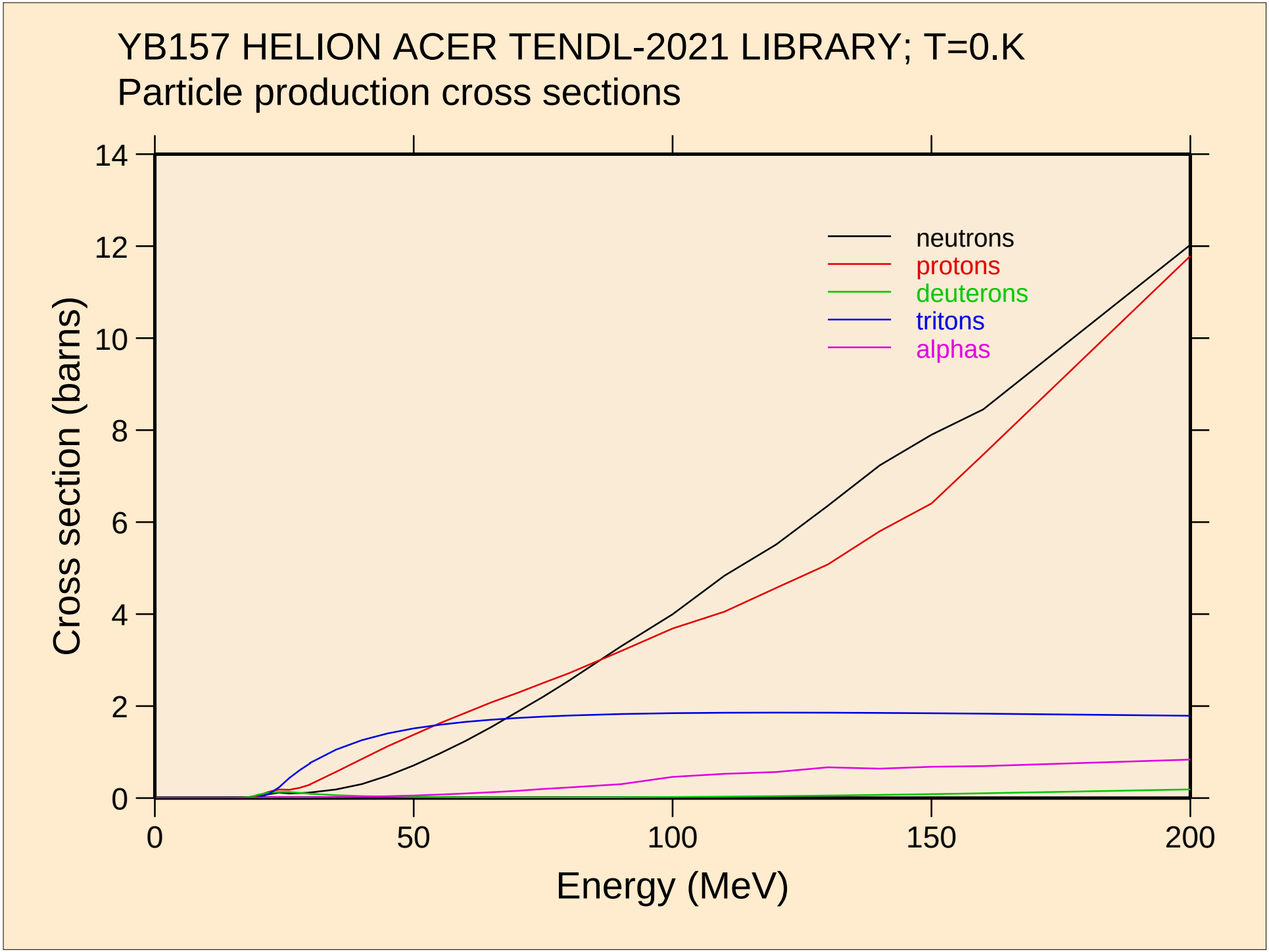

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,pd)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
5
10
E_γ (MeV)
5
10
15
20
25
30
E_n (MeV)

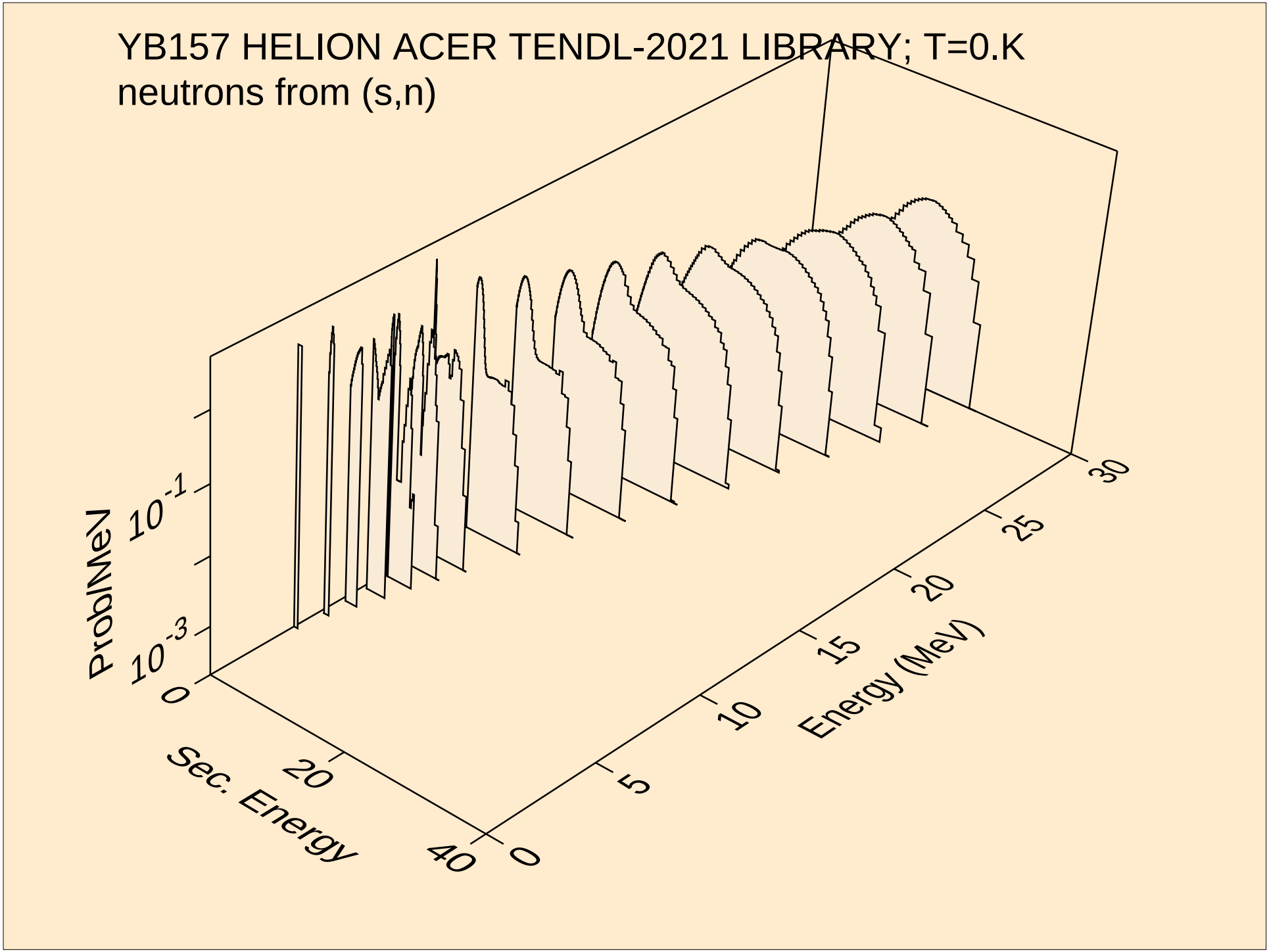

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,pt)
Prob/MeV
10^{2}
10^{0}
10^{-2}
E_γ (MeV)
0
5
10
E_n (MeV)
5
10
15
20
25
30

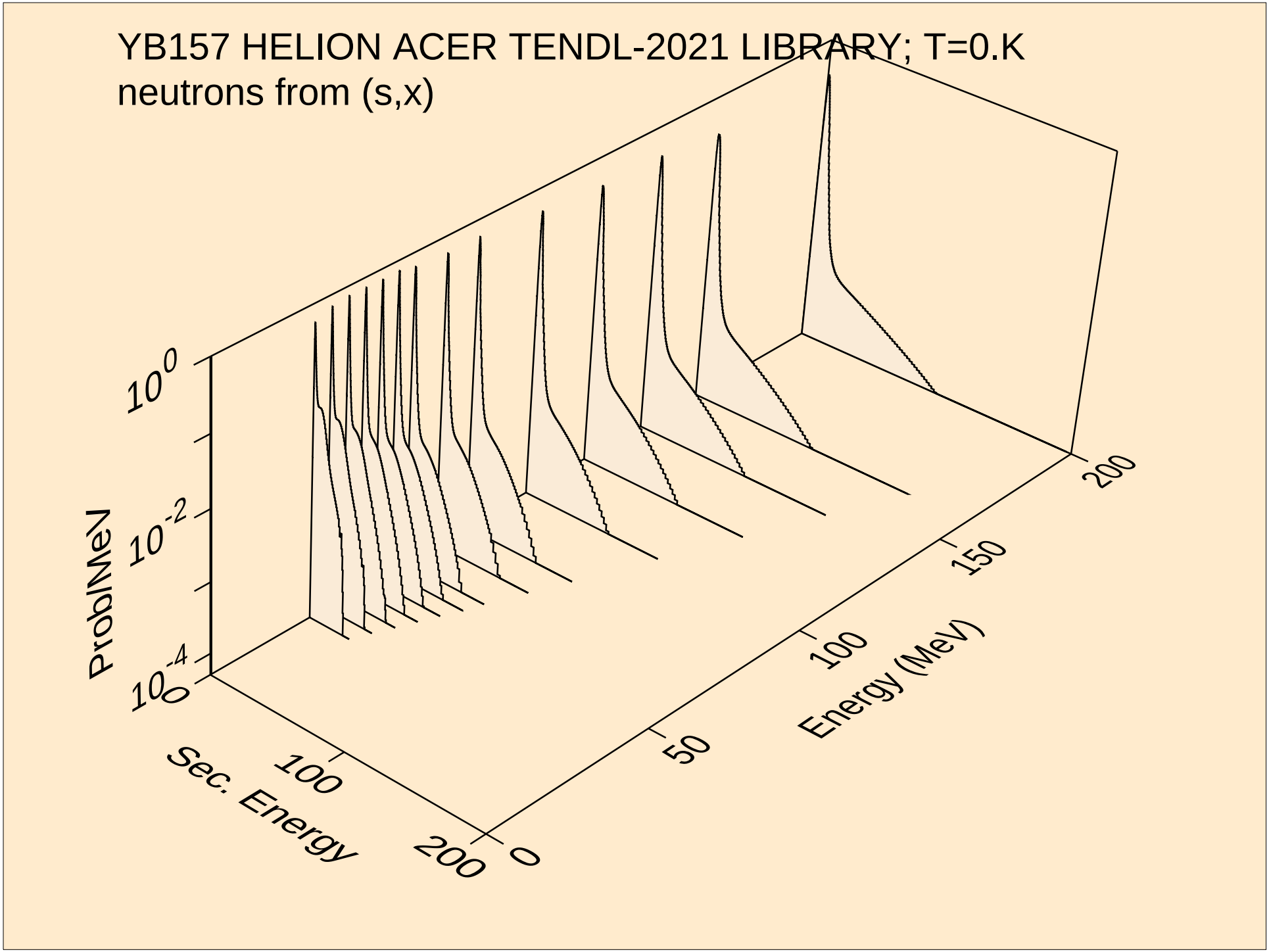

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,da)
Prob/MeV
10^0
10^-2
0
5
10
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

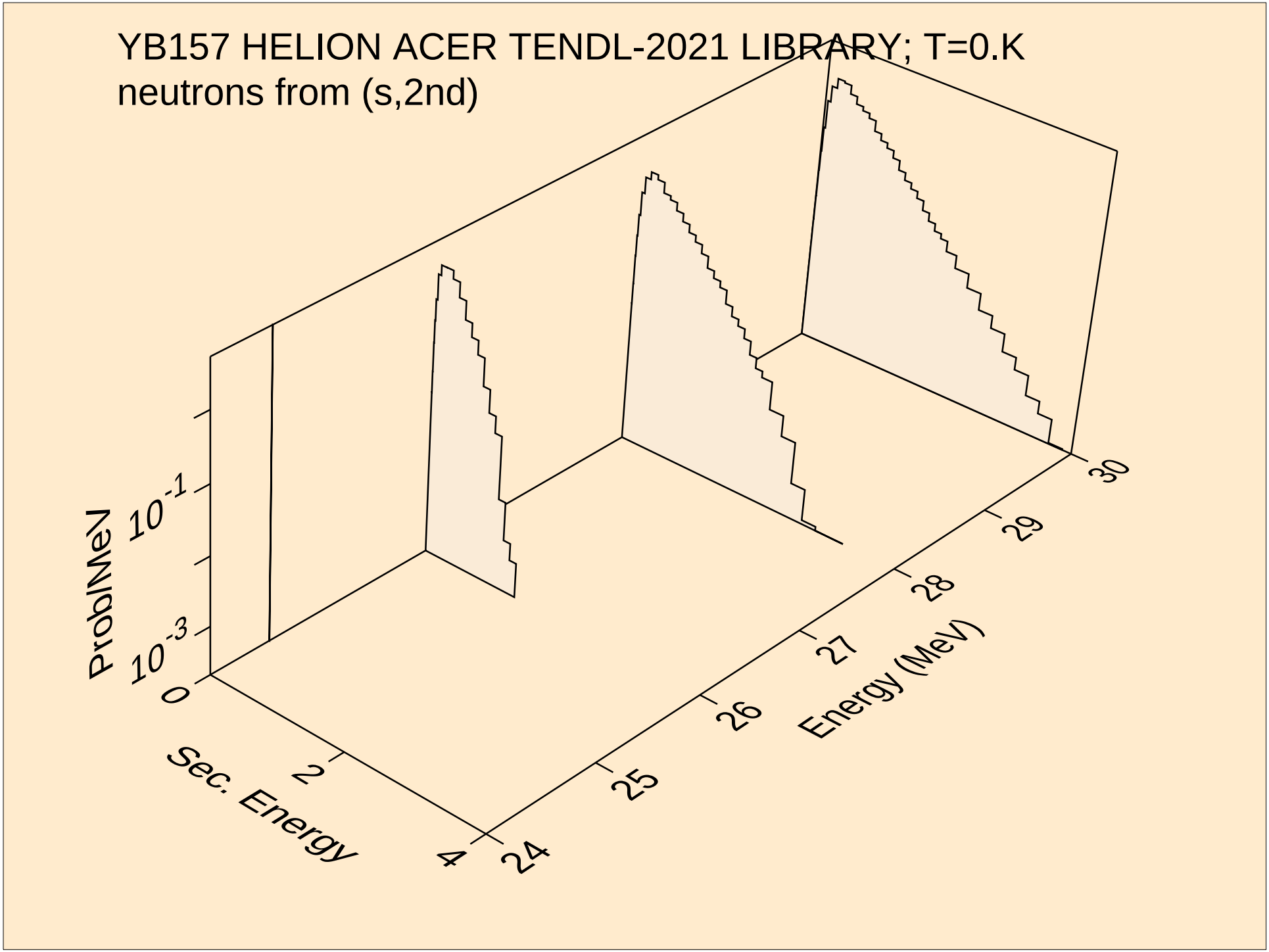

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Particle heating contributions
neutrons
protons
deuterons
tritons
alphas
MeV/collision
Energy (MeV)
0
5
10
15
20
25
0
50
100
150
200

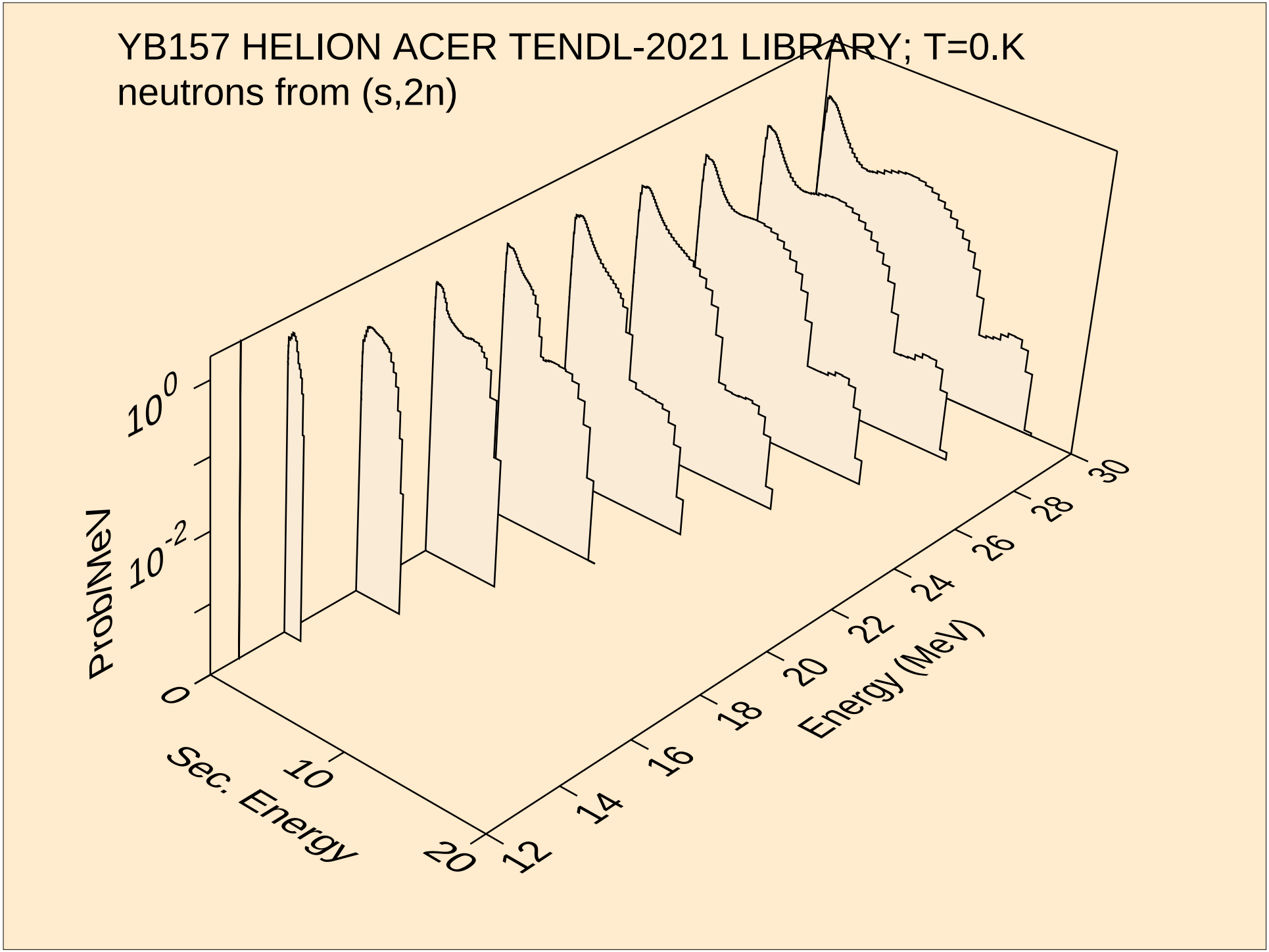

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Recoil Heating
recoil heating
Heating (MeV/reaction)
Energy (MeV)
0
2
4
6
8
10
12
14
16
18
20
0
50
100
150
200

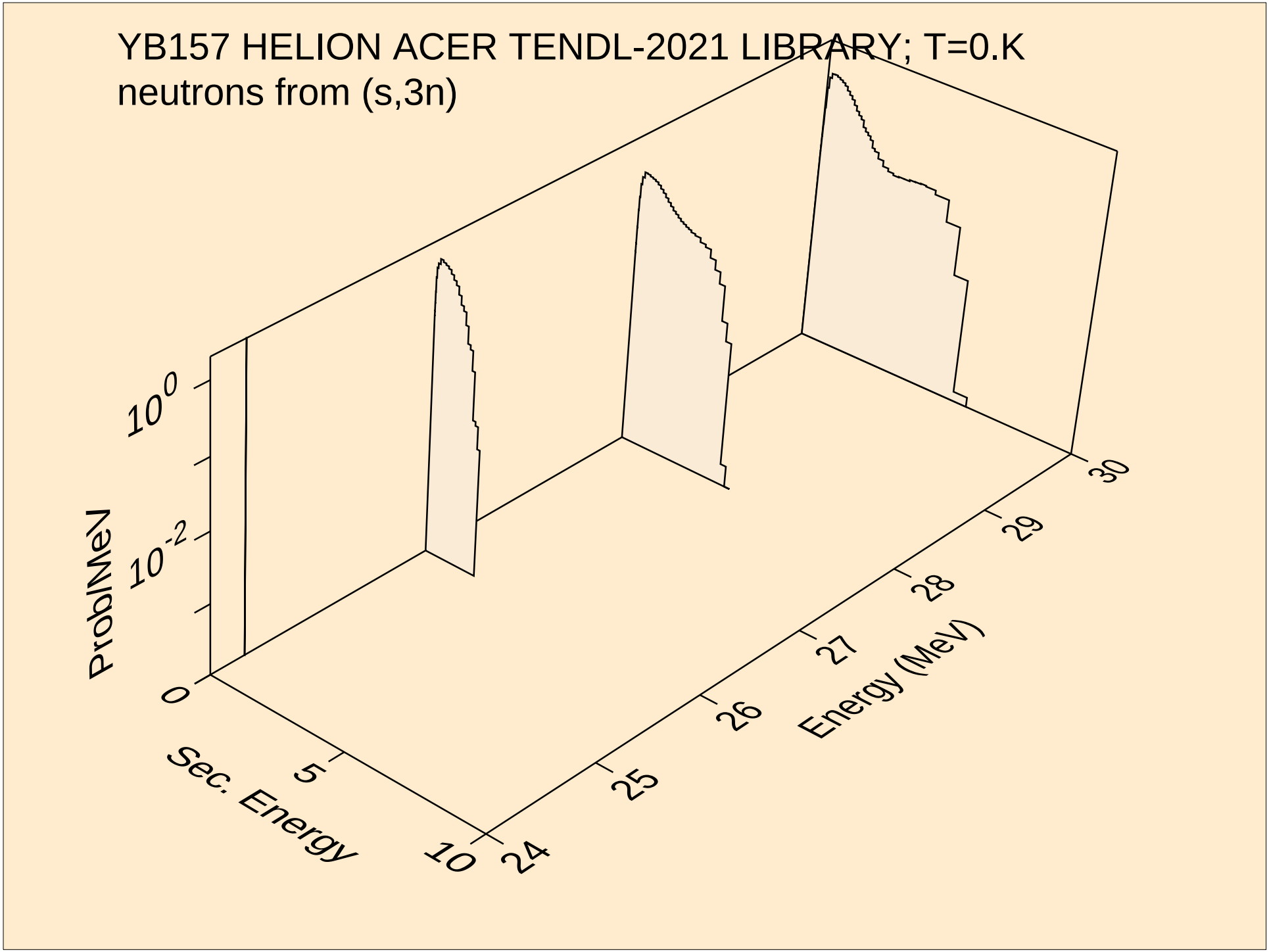

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
Particle production cross sections
Cross section (barns)
Energy (MeV)
0
2
4
6
8
10
12
14
0
50
100
150
200
neutrons
protons
deuterons
tritons
alphas

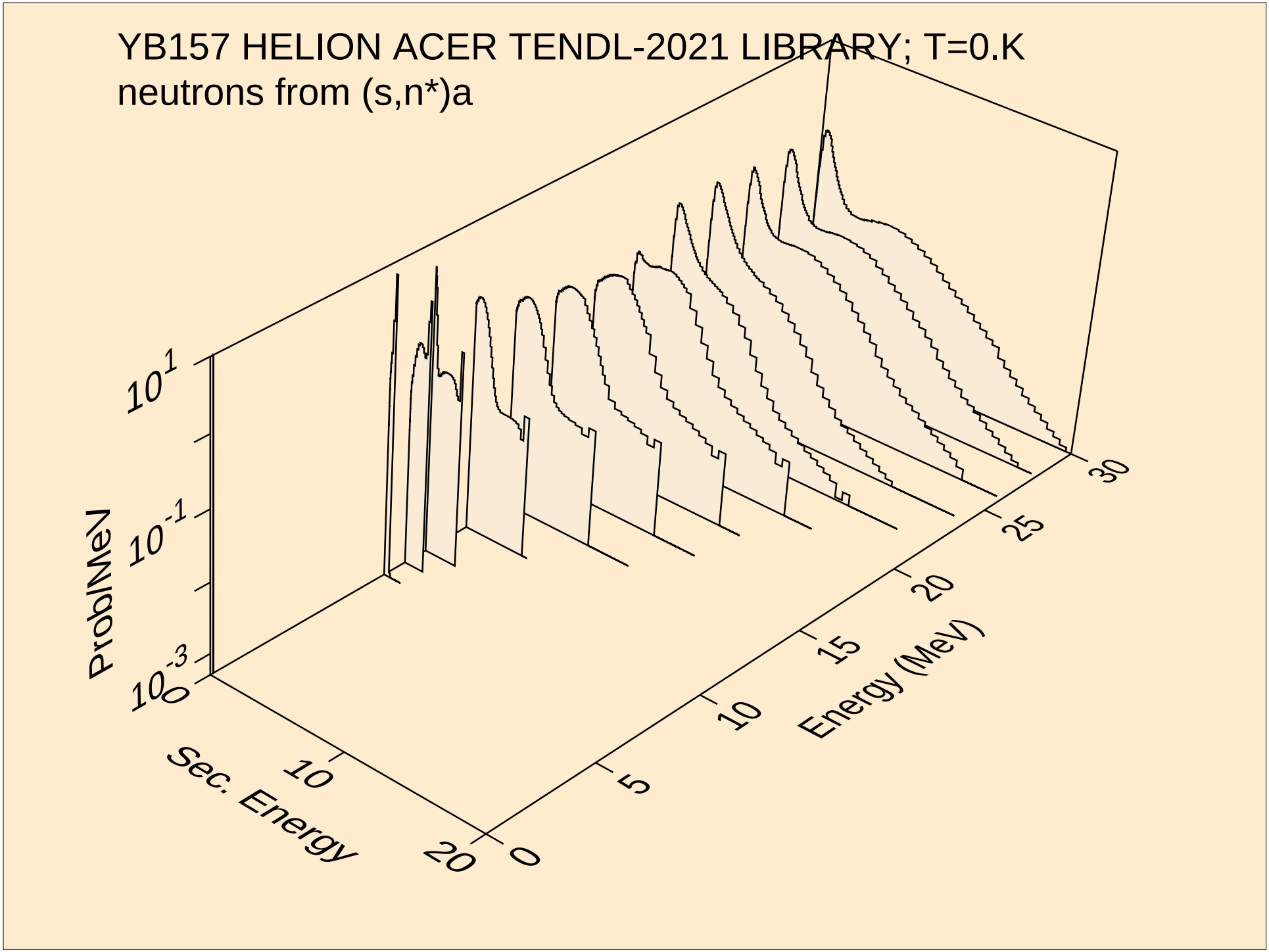

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (s,n)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)

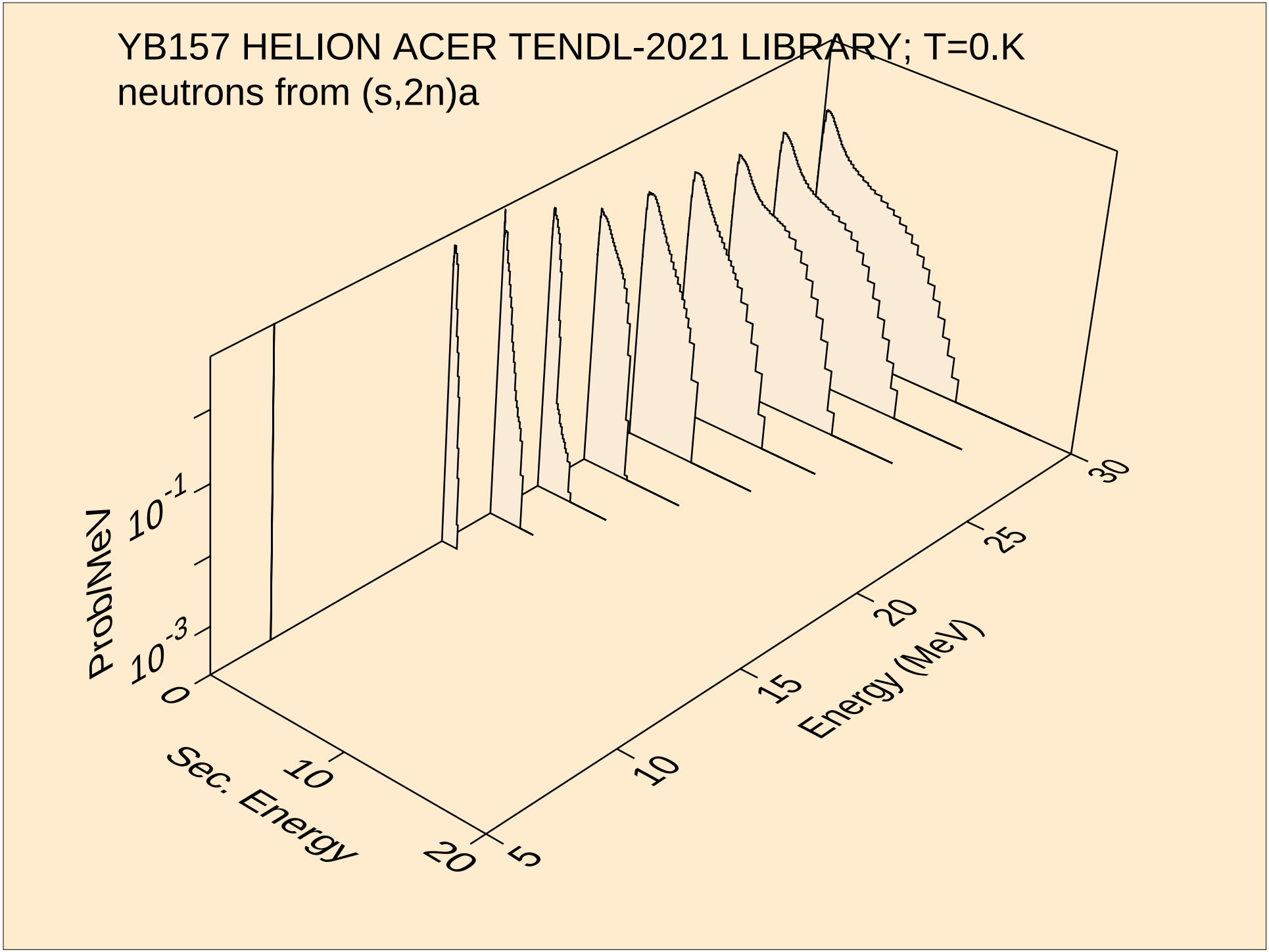

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (s,x)
Prob/MeV
10^0
10^-2
10^-4
0
100
200
Sec. Energy
0
50
100
150
200
Energy (MeV)

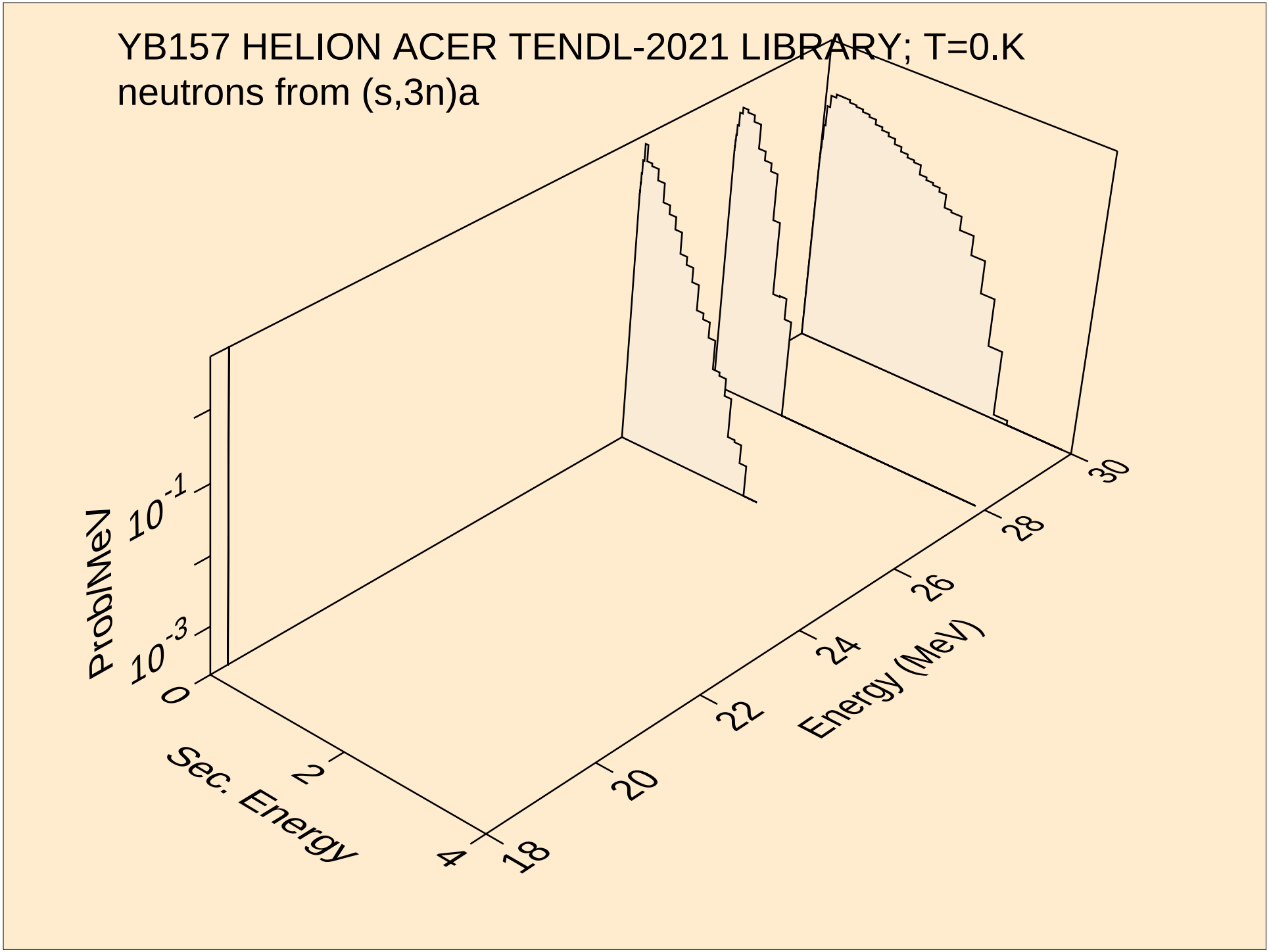

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (s,2nd)
Prob/MeV
10-1
10-3
0
Sec. Energy
2
4
24
25
26
27
28
29
30
Energy (MeV)

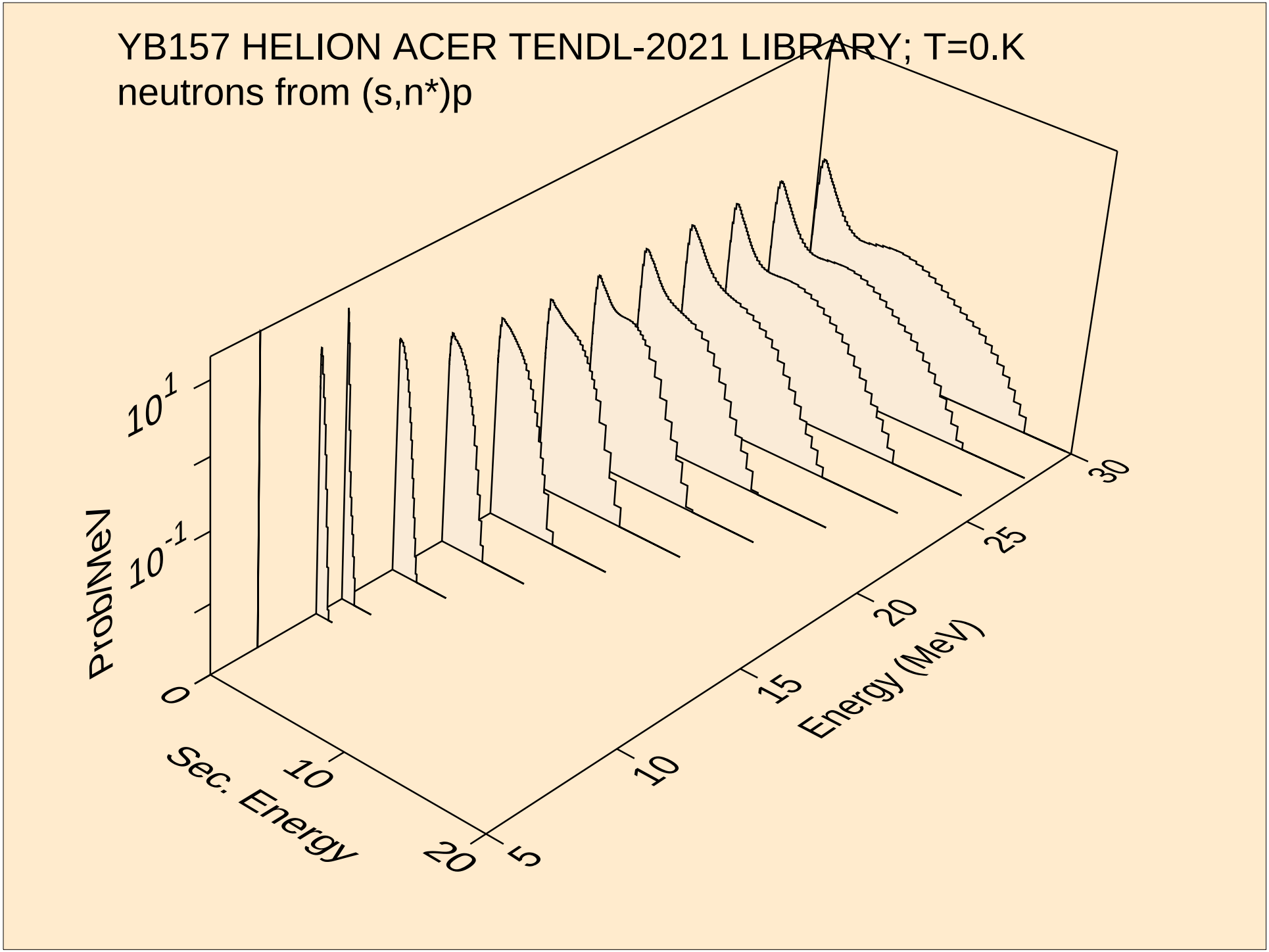

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (s,2n)
Prob/MeV
10^{0}
10^{-2}
0
Sec. Energy
10
20
Energy (MeV)
12
14
16
18
20
22
24
26
28
30

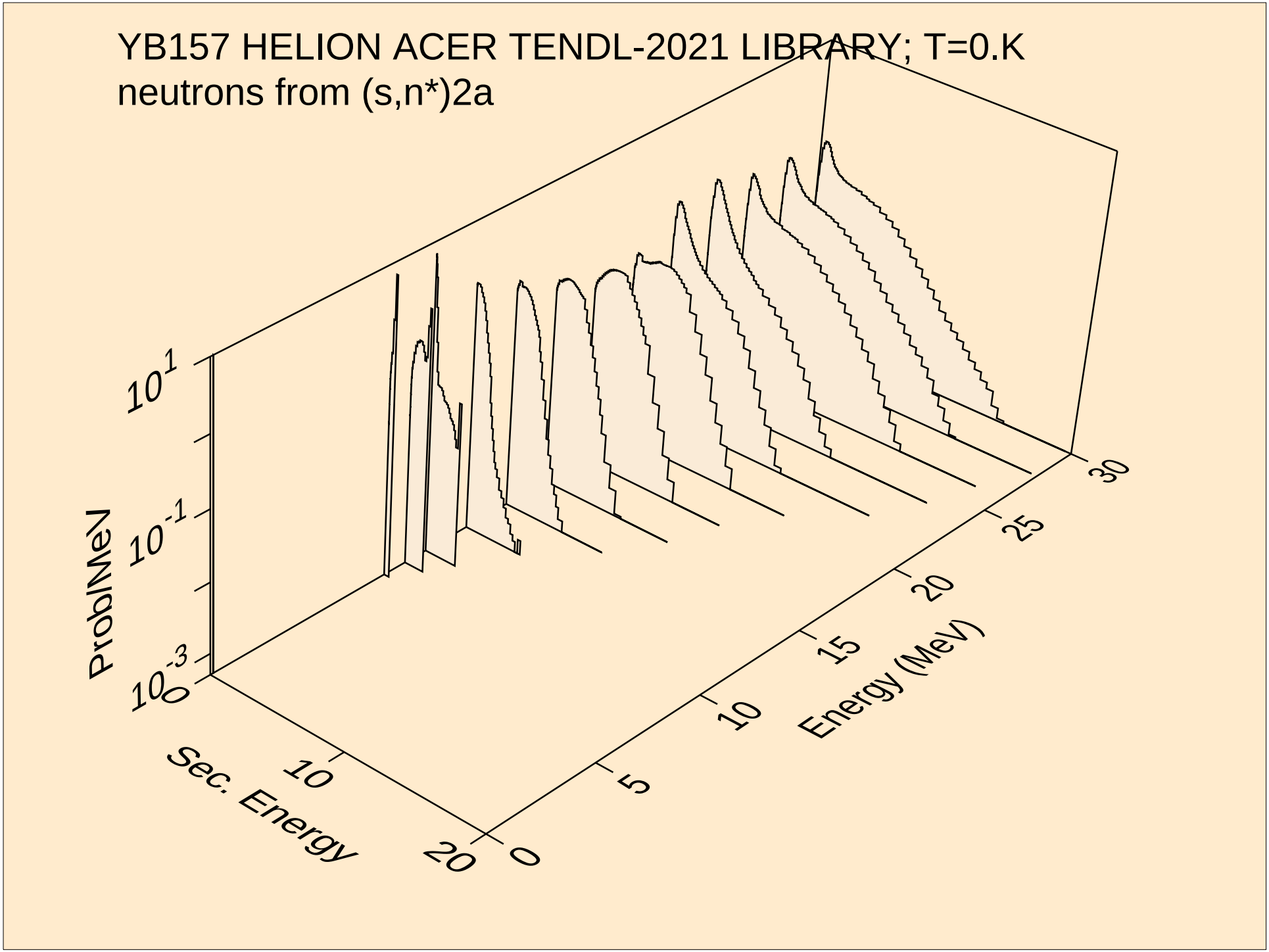

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (s,3n)
Prob/MeV
10^0
10^-2
0
Sec. Energy
5
10
24
25
26
27
28
29
30
Energy (MeV)

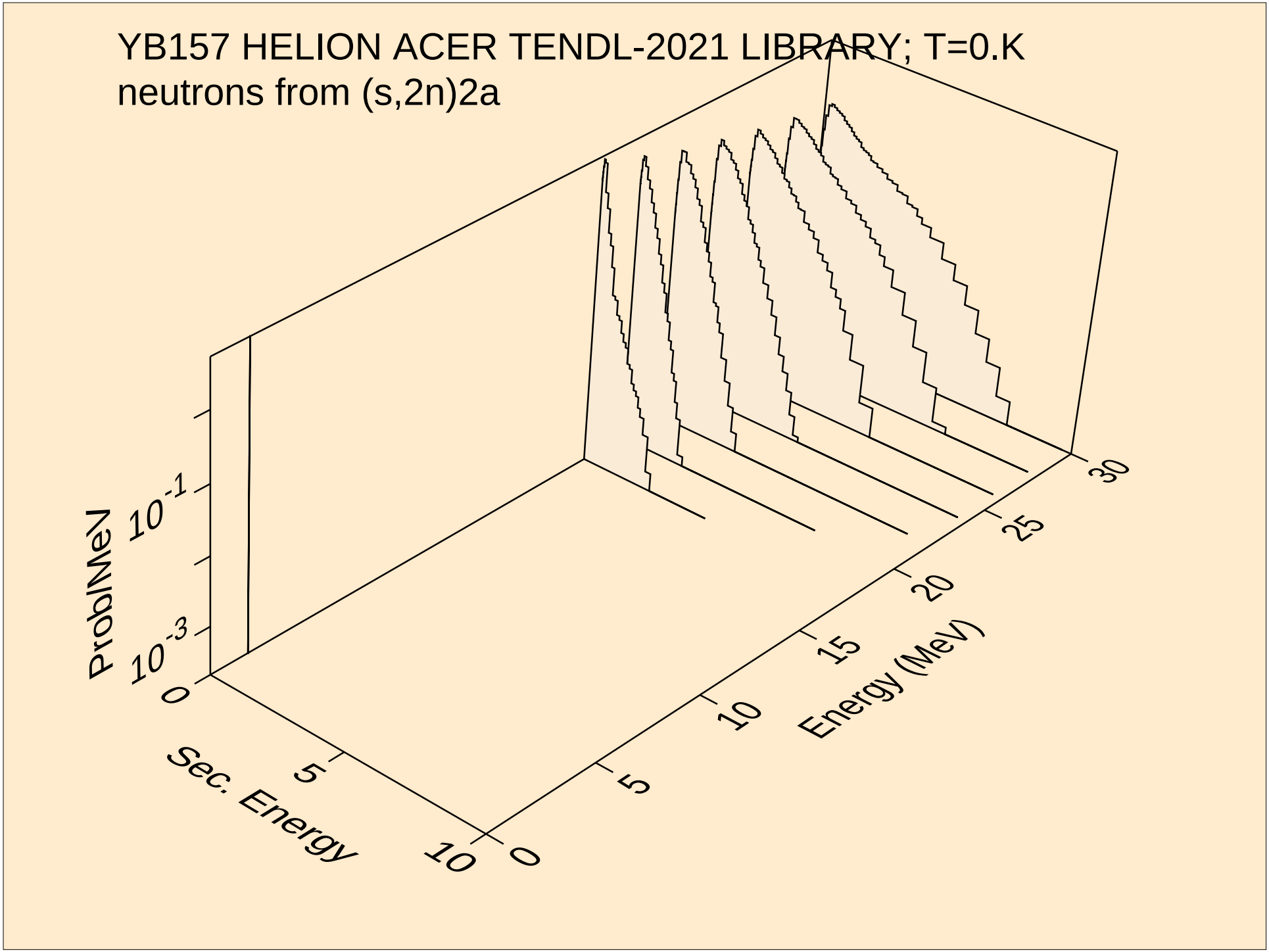

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (s,n*)a
Prob/MeV
10^{1}
10^{-1}
10^{-3}
Sec. Energy
0
10
20
Energy (MeV)
0
5
10
15
20
25
30

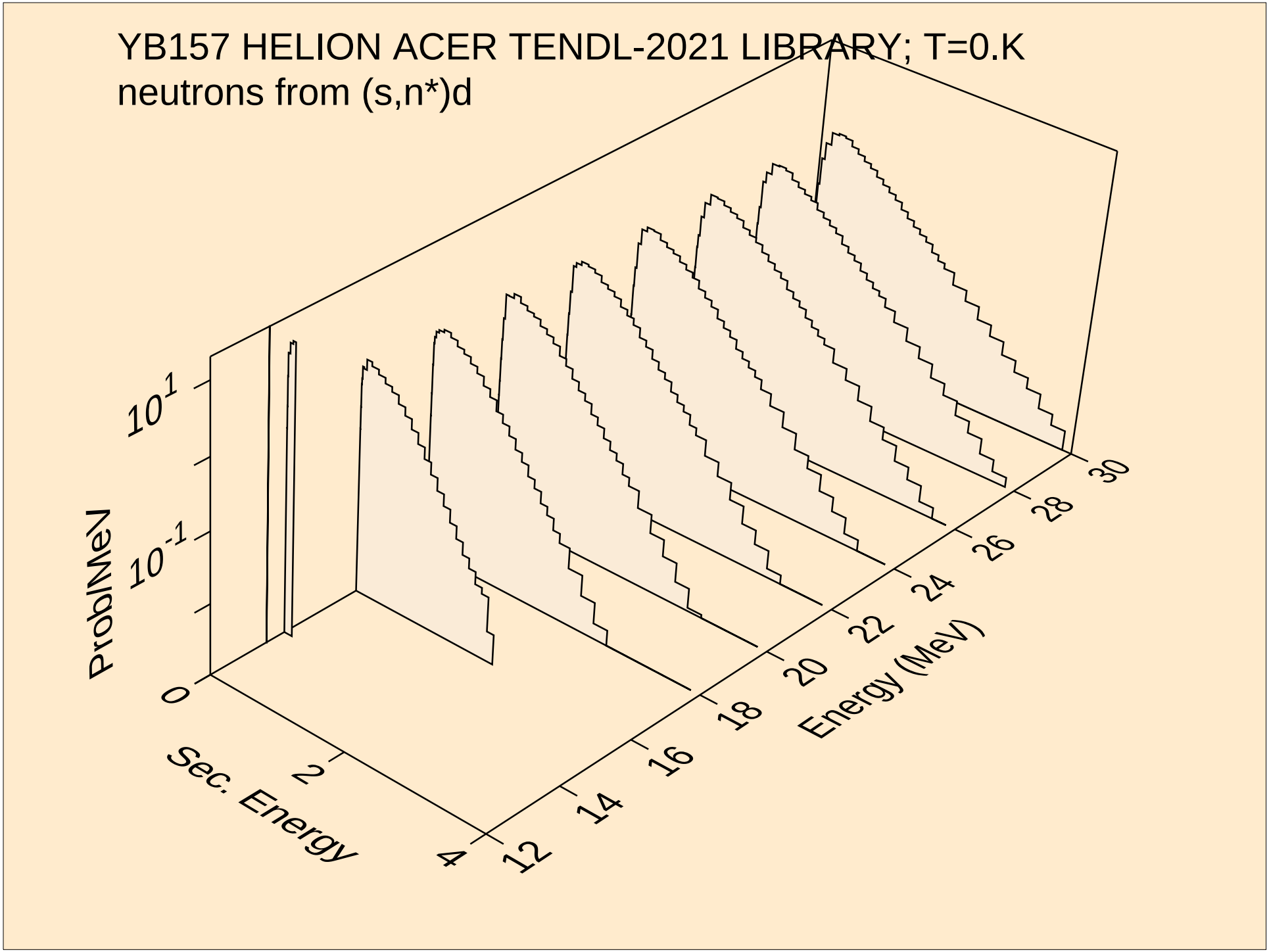

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (s,2n)a
Prob/MeV
10-1
10-3
0
Sec. Energy
10
20
5
10
15
20
25
30
Energy (MeV)

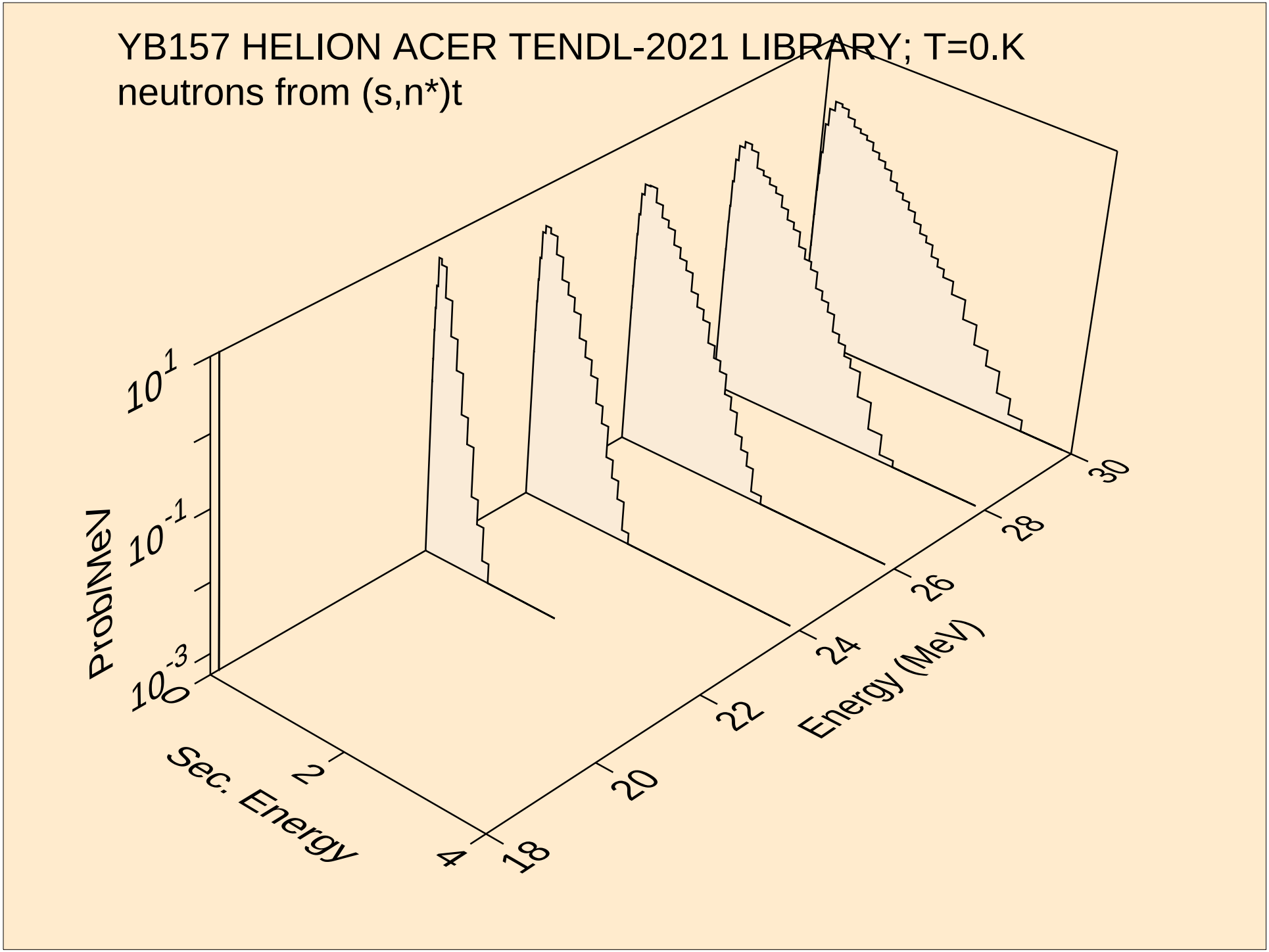

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (s,3n)a
Prob/MeV
10-1
10-3
0
Sec. Energy
2
4
18
20
22
24
26
28
30
Energy (MeV)

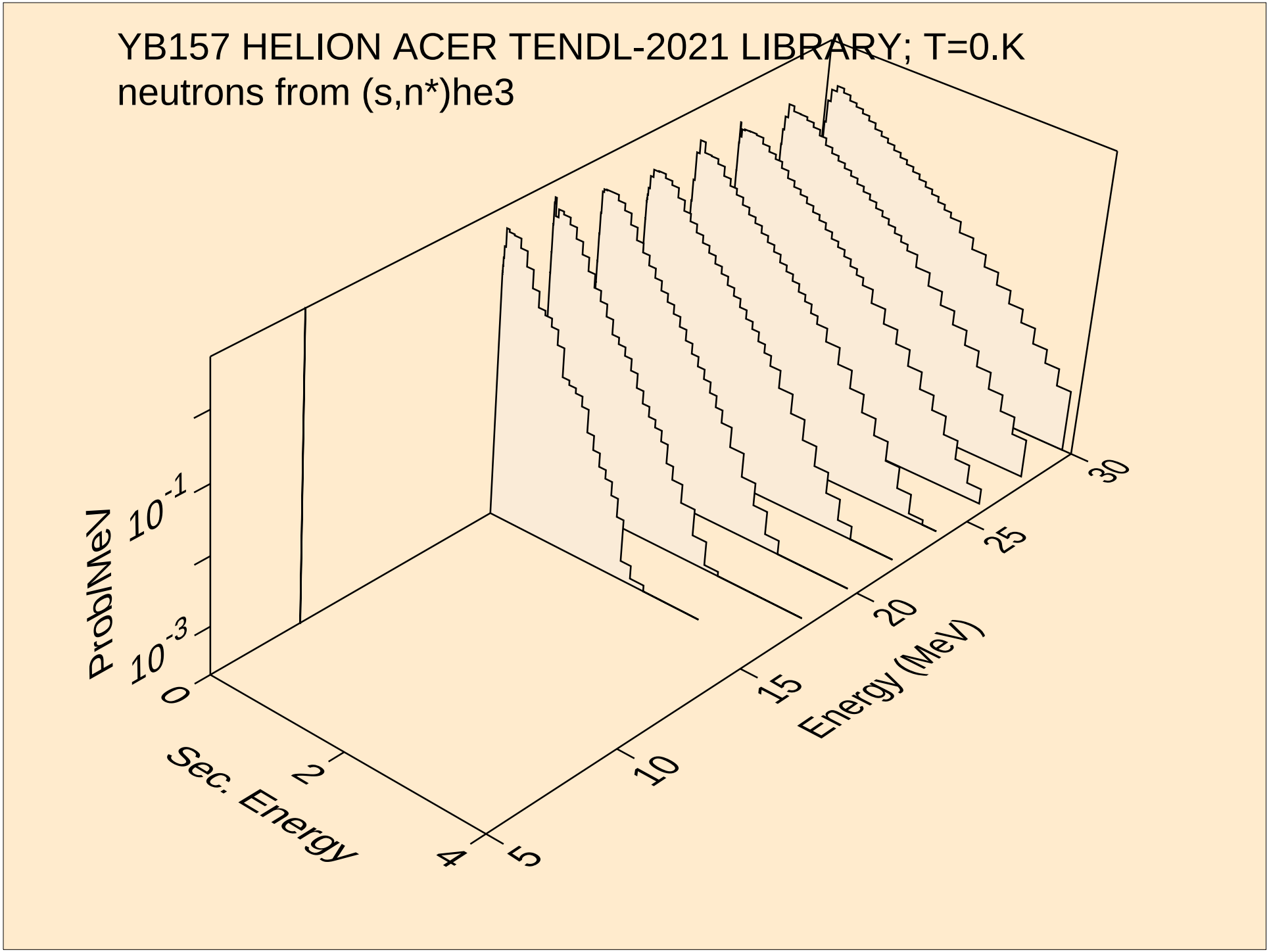

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (s,n*)p
Prob/MeV
10^1
10^-1
0
Sec. Energy
10
20
5
10
15
20
25
30
Energy (MeV)

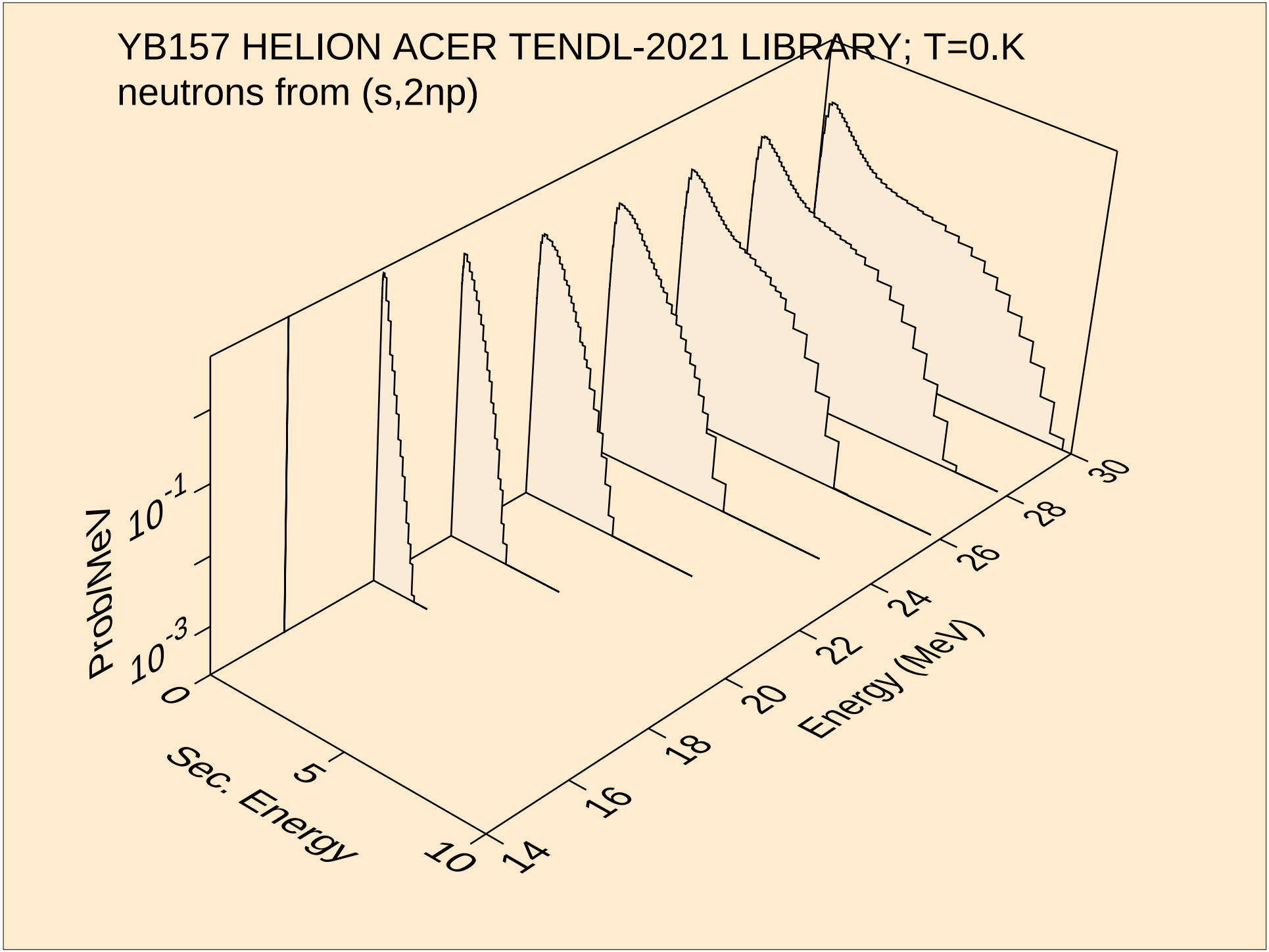

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (s,n*)2a
Prob/MeV
10^1
10^-1
10^-3
0
10
20
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)

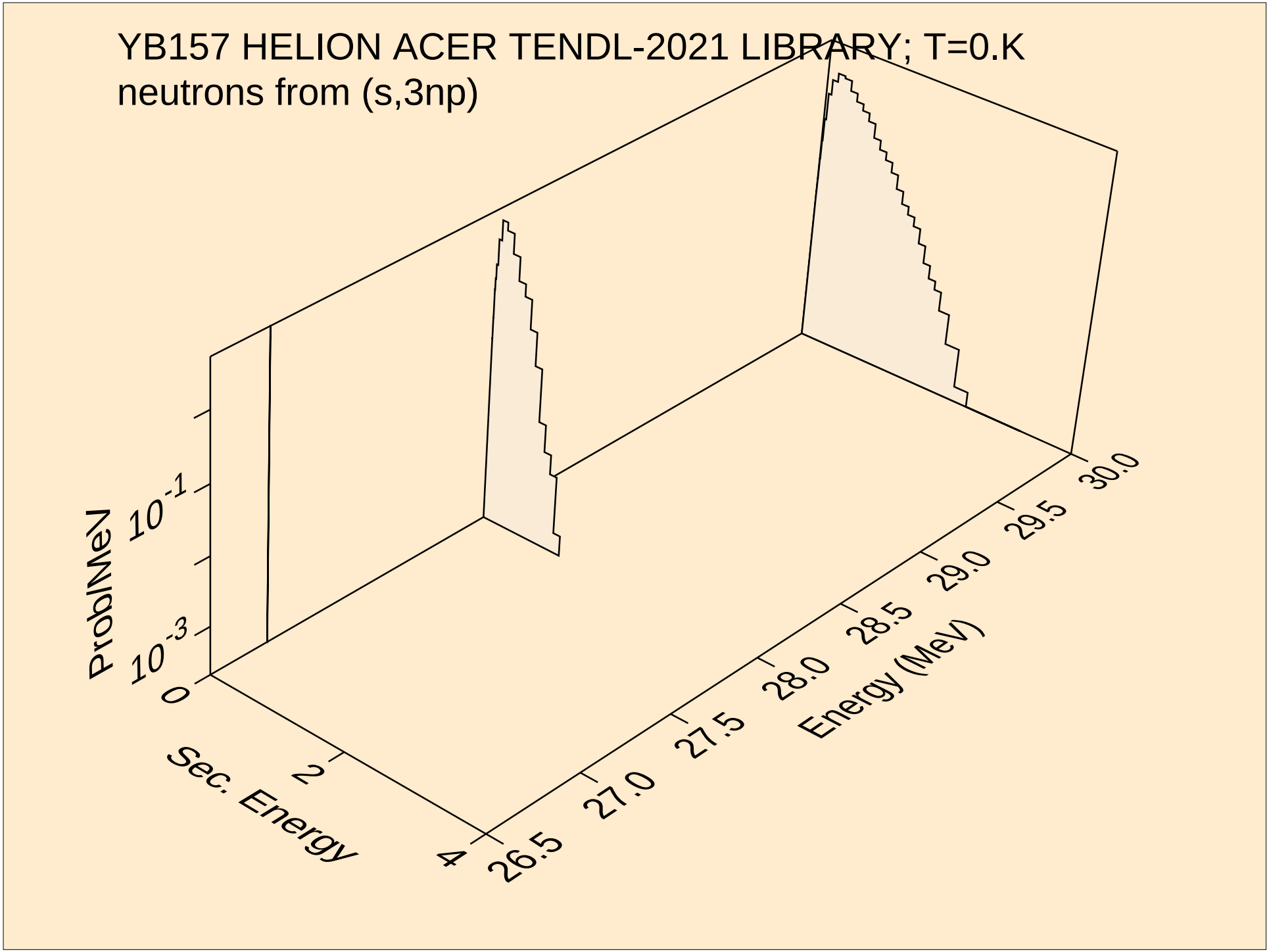

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (s,2n)2a
Prob/MeV
10-1
10-3
0
Sec. Energy
5
10
0
5
10
15
20
25
30
Energy (MeV)

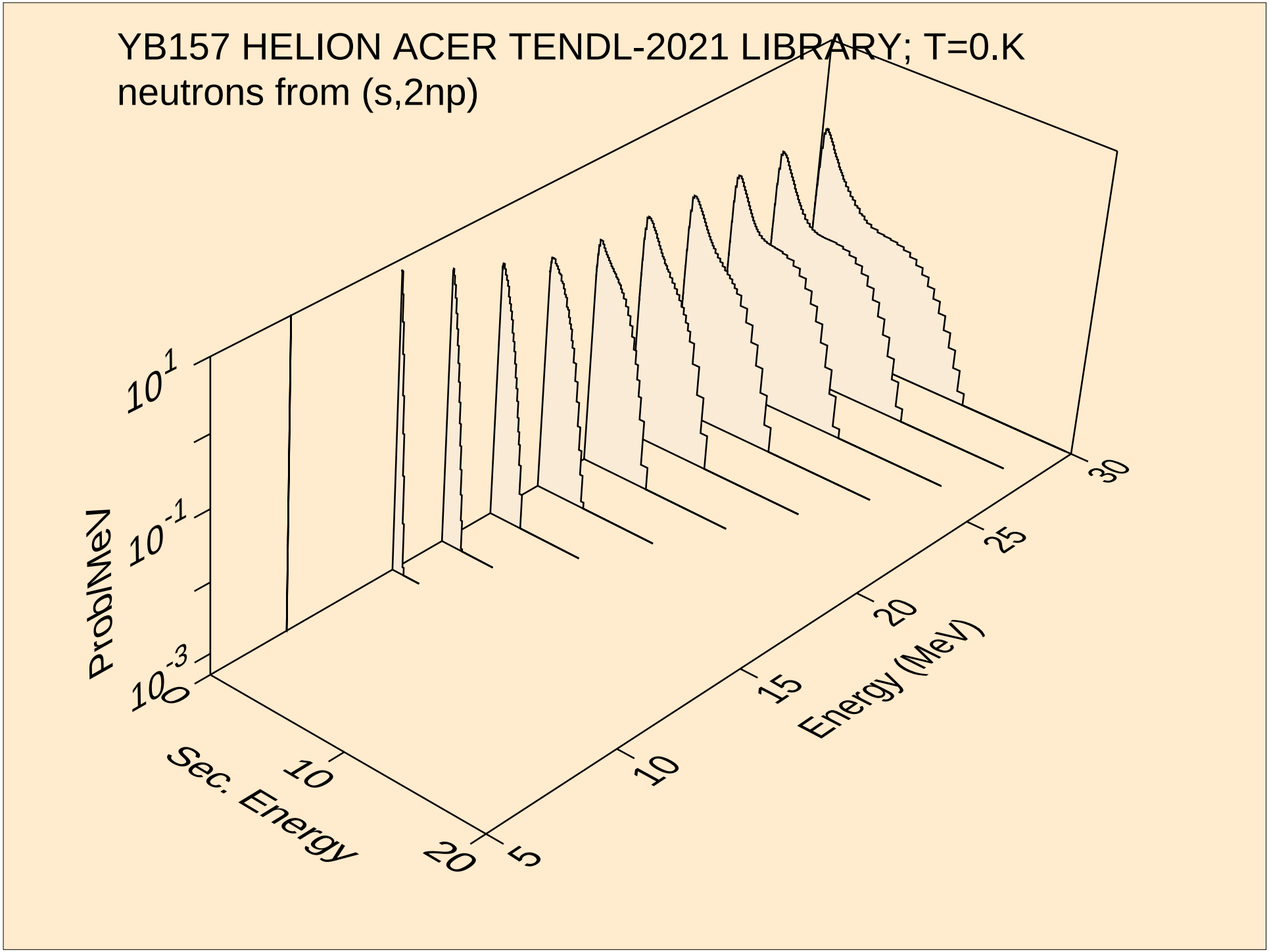

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (s,n*)d
Prob/MeV
10^1
10^-1
0
Sec. Energy
2
4
12
14
16
18
20
22
24
26
28
30
Energy (MeV)

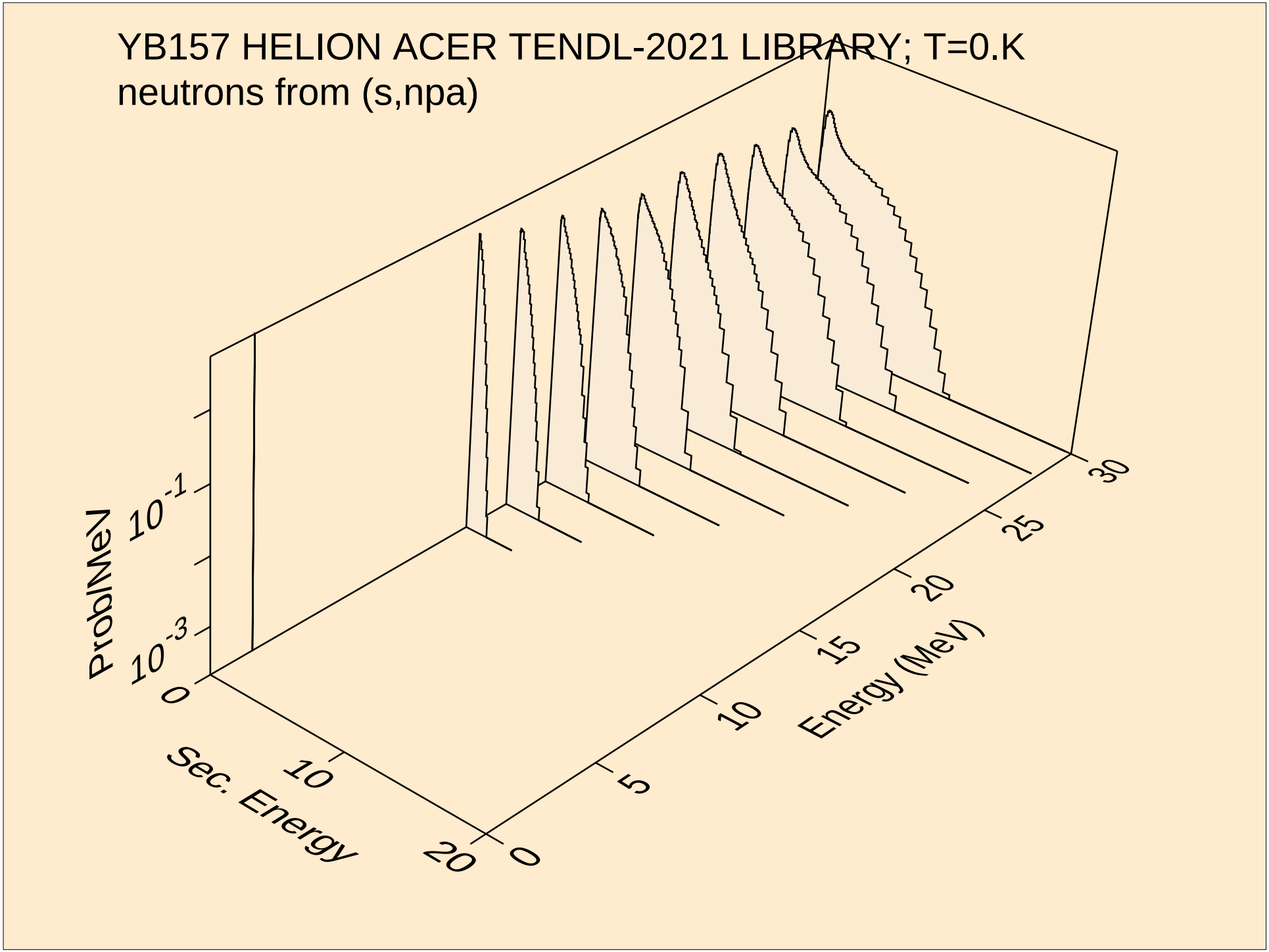

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (s,n*)t
Prob/MeV
10^1
10^-1
10^-3
0
Sec. Energy
2
4
18
20
22
24
26
28
30
Energy (MeV)

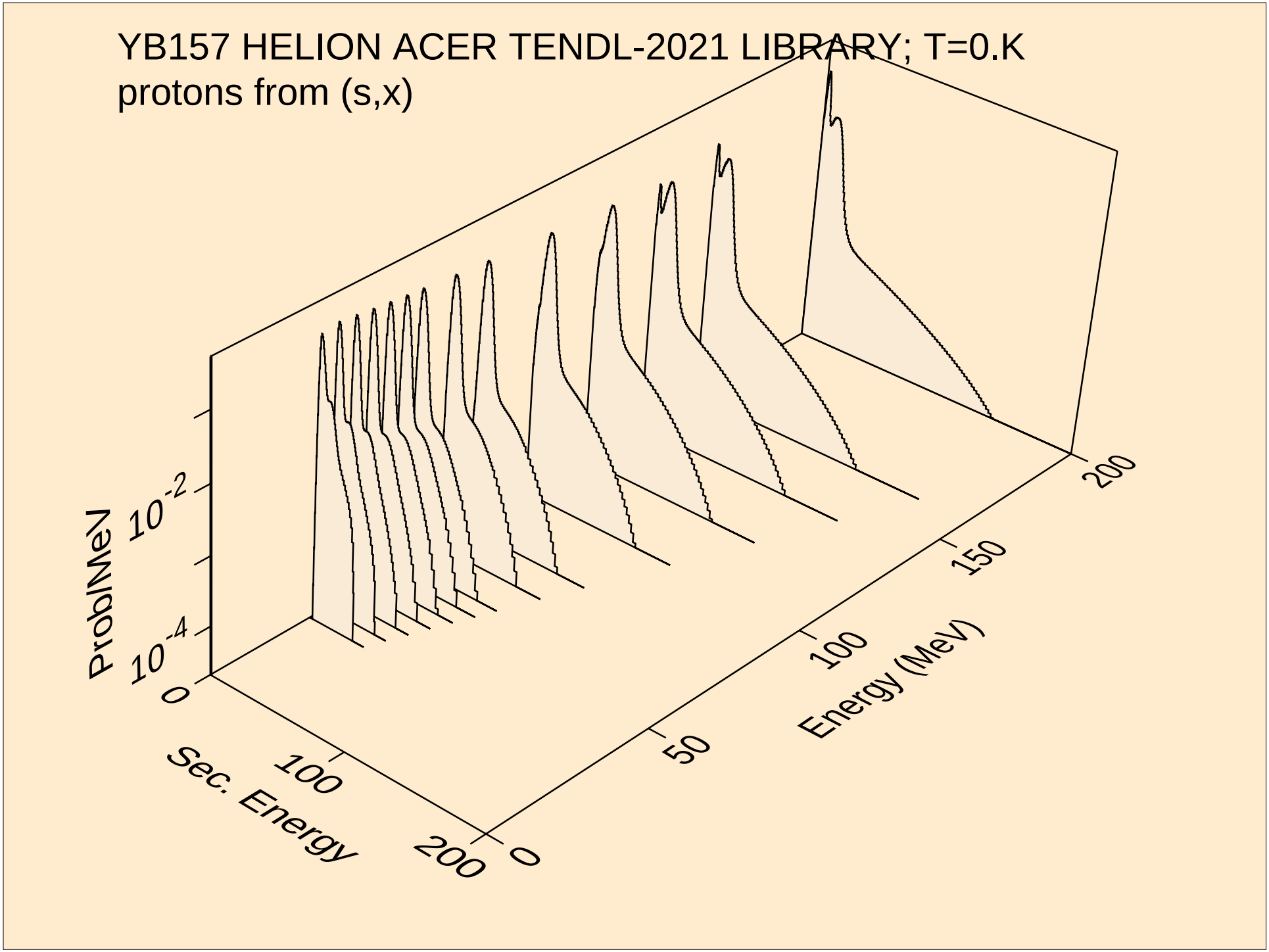

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (s,n*)he3
Prob/MeV
10-1
10-3
0
Sec. Energy
2
4
5
10
15
20
25
30
Energy (MeV)

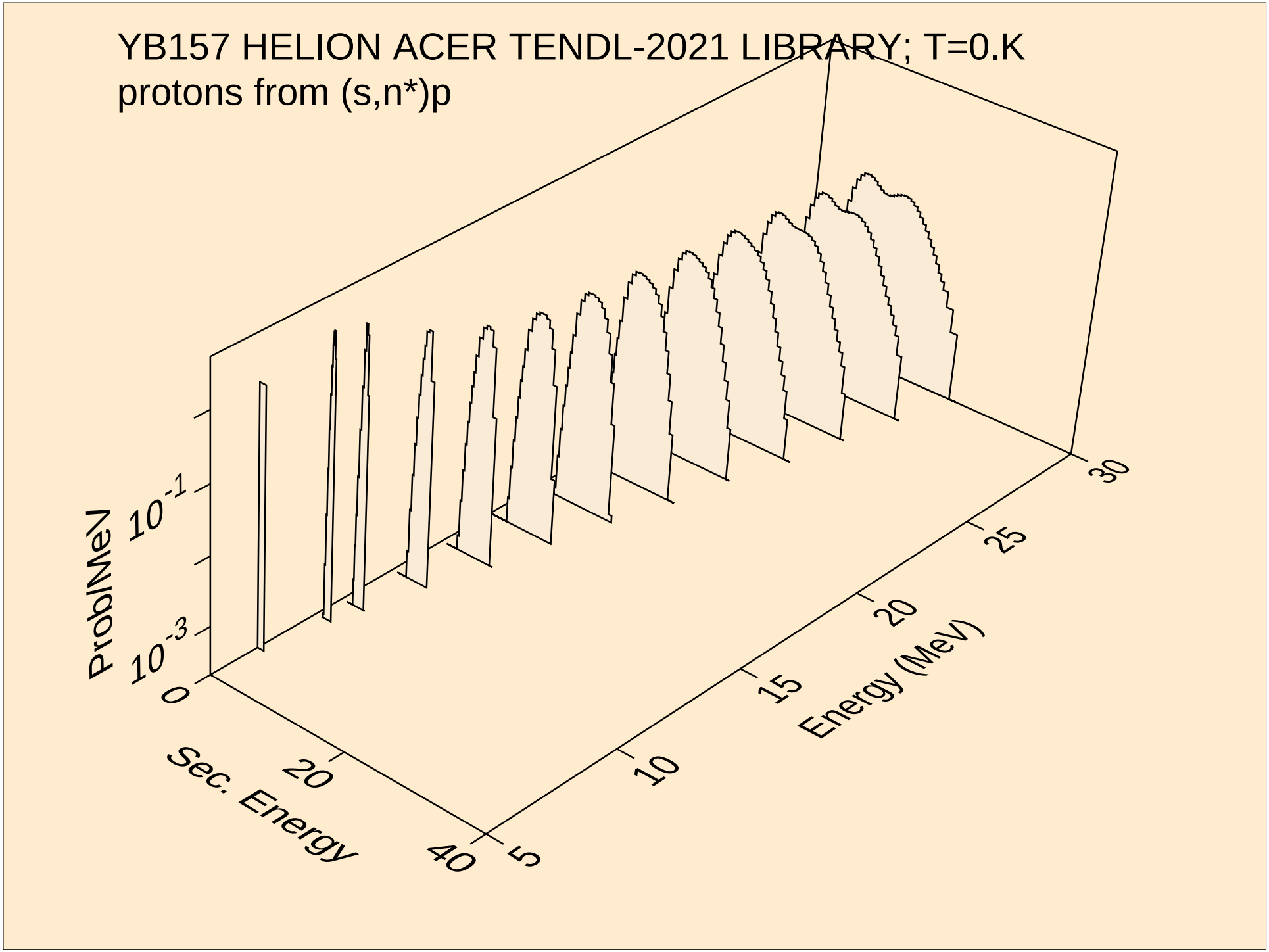

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (s,2np)
Prob/MeV
10-1
10-3
0
Sec. Energy
5
10
14
16
18
20
22
24
26
28
30
Energy (MeV)

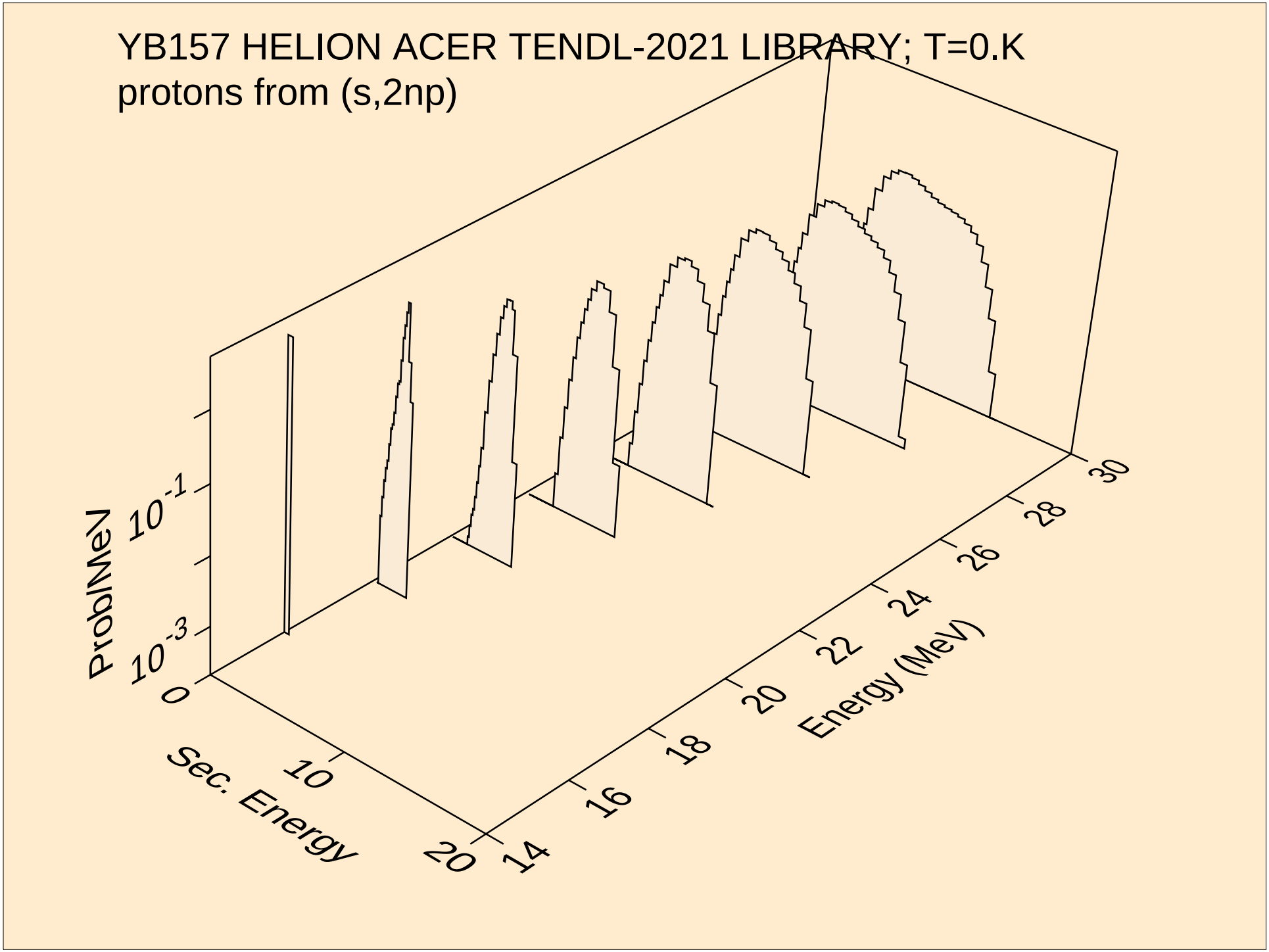

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (s,3np)
Prob/MeV
10-1
10-3
0
Sec. Energy
2
4
26.5
27.0
27.5
28.0
28.5
29.0
29.5
30.0
Energy (MeV)

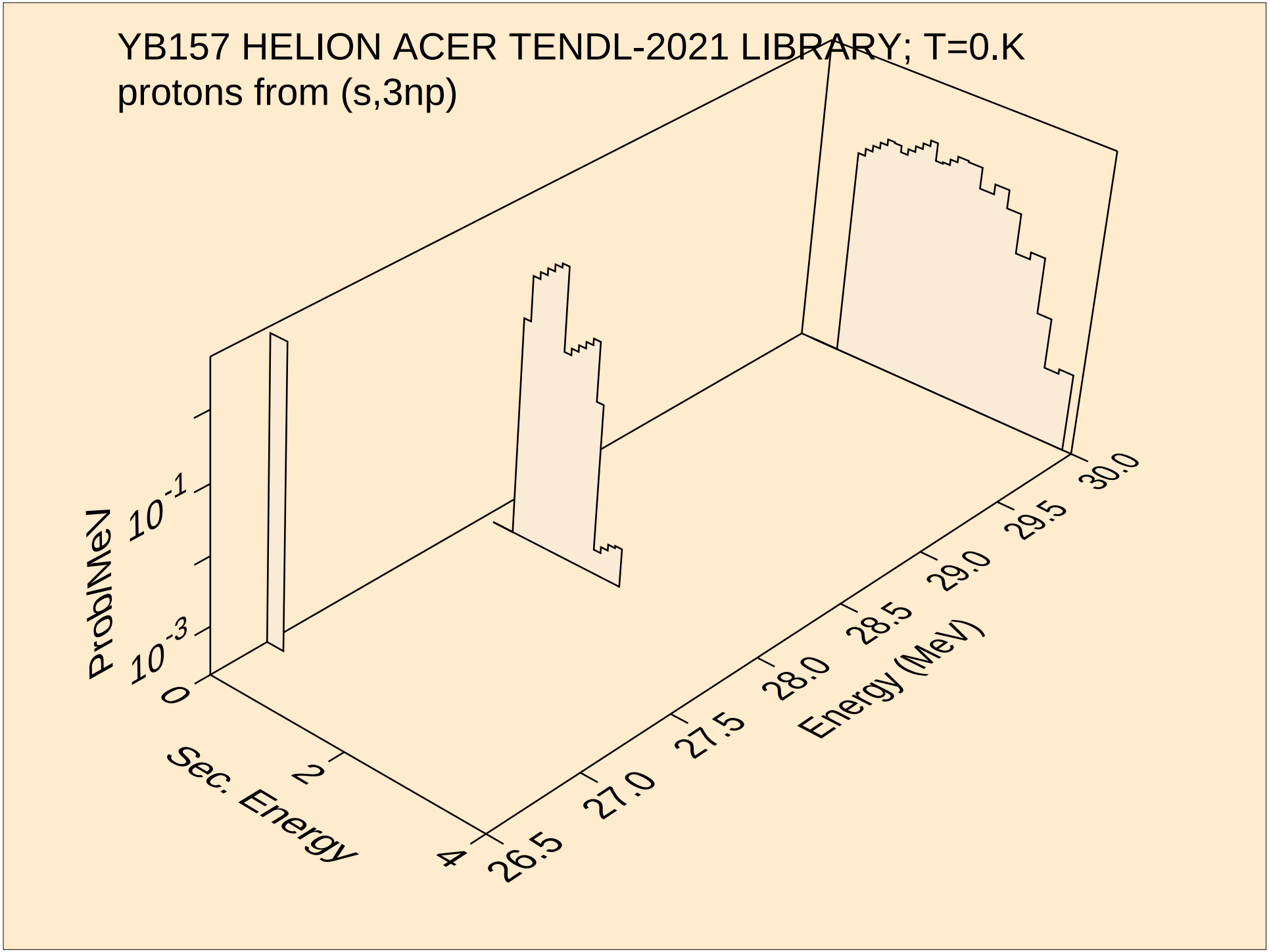

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (s,2np)
Prob/MeV
10^{1}
10^{-1}
10^{-3}
0
Sec. Energy
10
20
5
10
15
20
25
30
Energy (MeV)

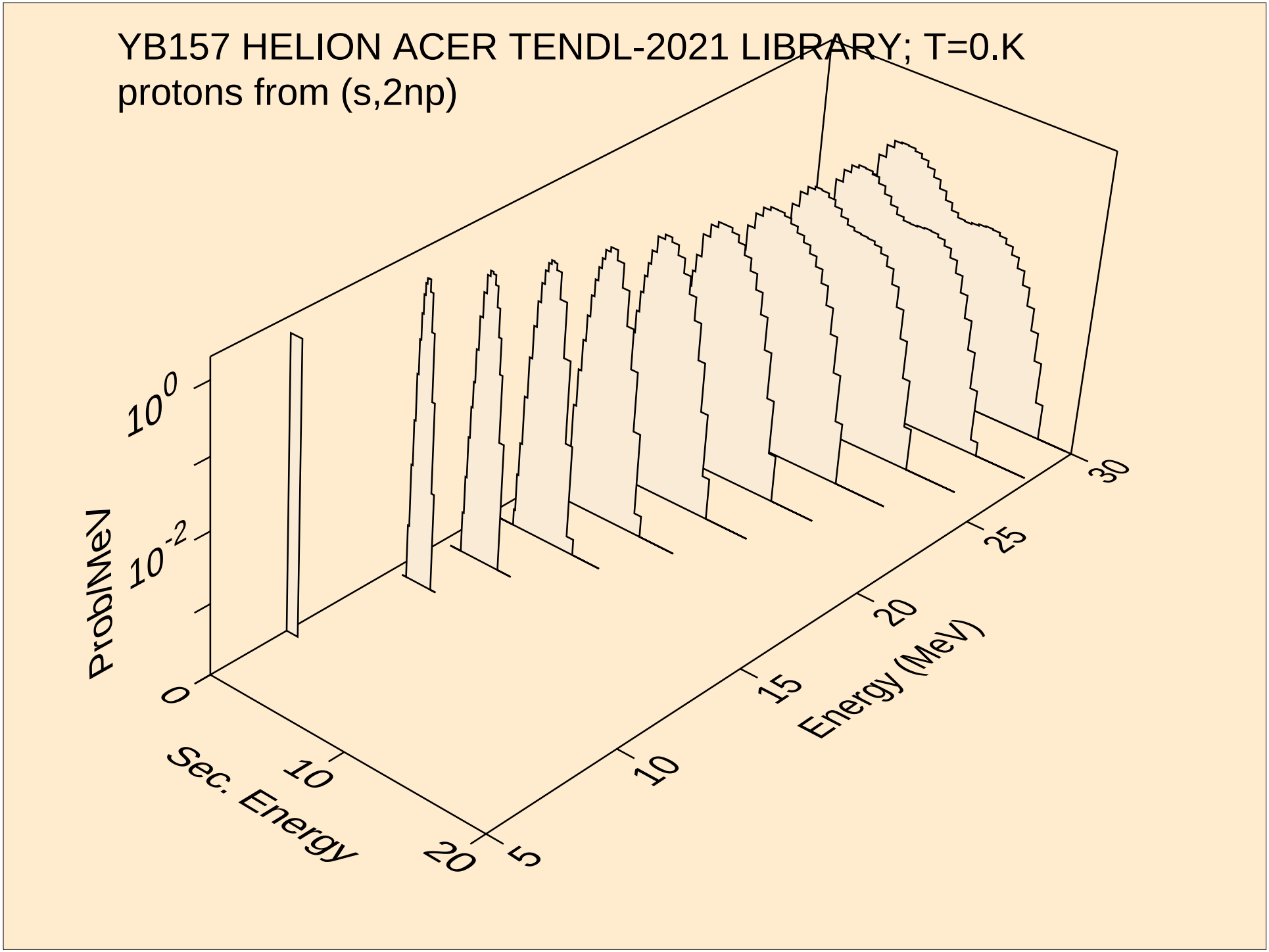

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (s,npa)
Prob/MeV
10-1
10-3
0
Sec. Energy
10
20
0
5
10
15
20
25
30
Energy (MeV)

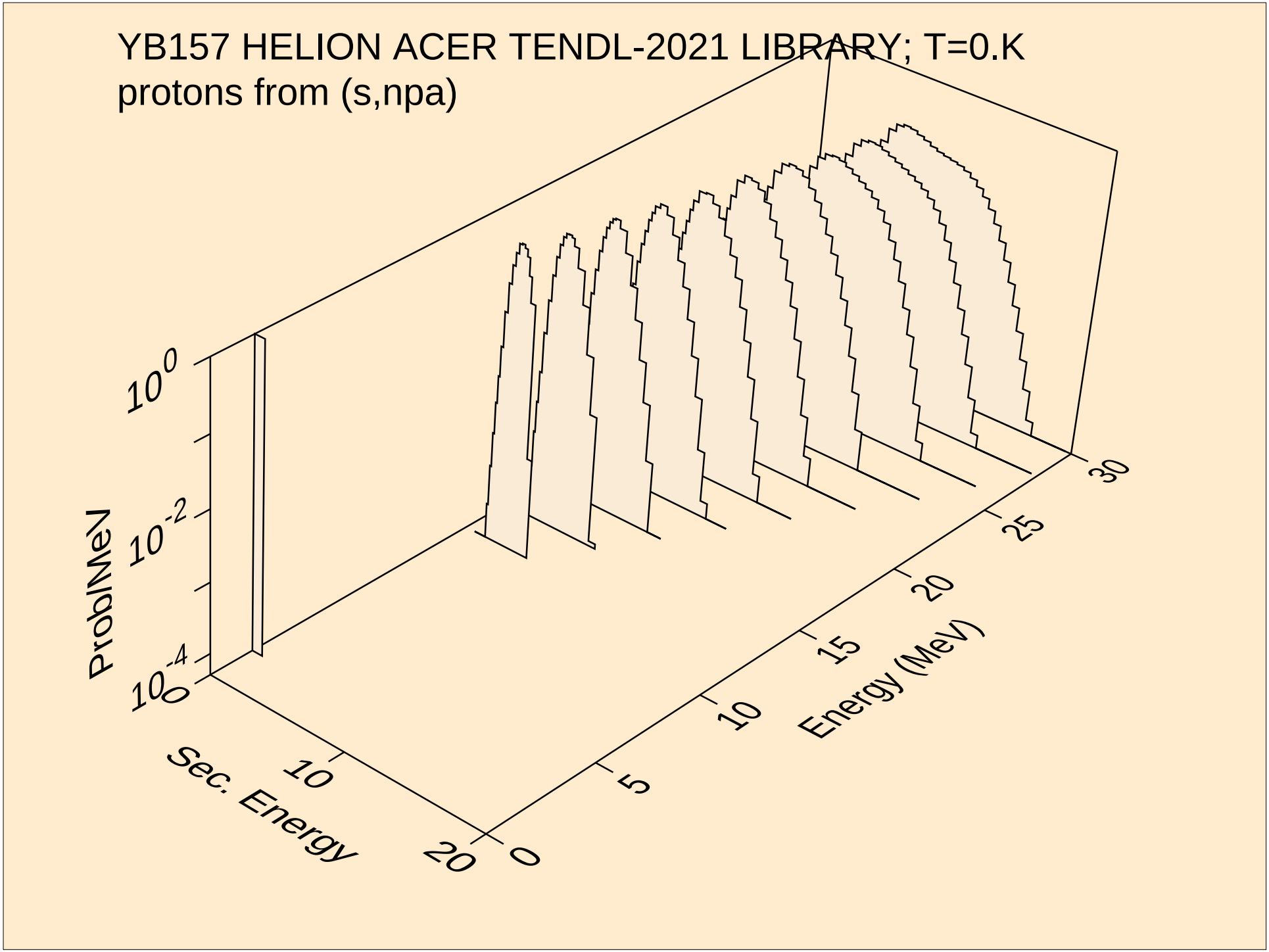

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
protons from (s,x)
Prob/MeV
10-2
10-4
0
Sec. Energy
100
200
0
50
100
150
200
Energy (MeV)

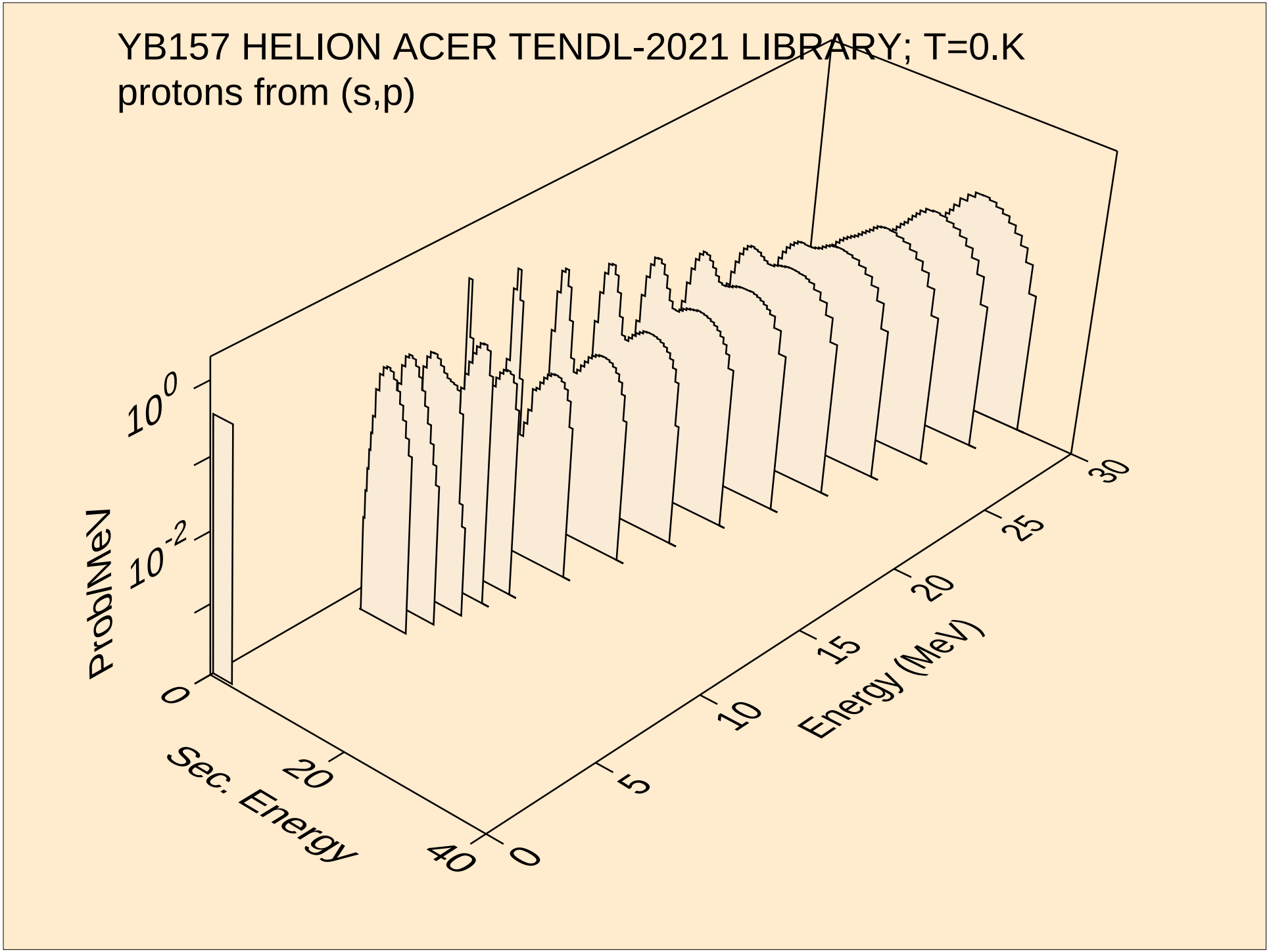

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
protons from (s,n*)p
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
5
10
15
20
25
30
Energy (MeV)

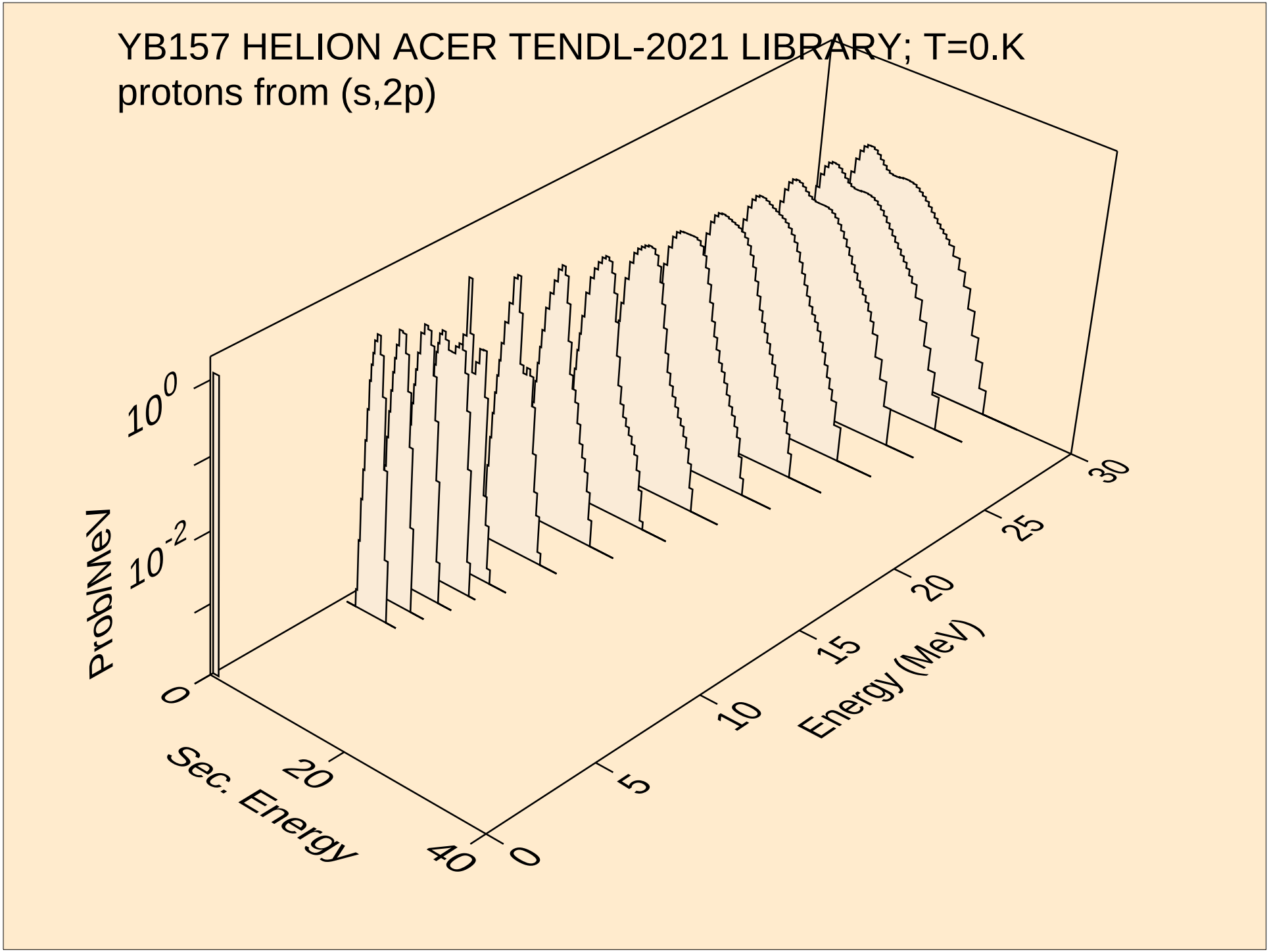

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
protons from (s,2np)
Prob/MeV
10-1
10-3
0
Sec. Energy
10
20
14
16
18
20
22
24
26
28
30
Energy (MeV)

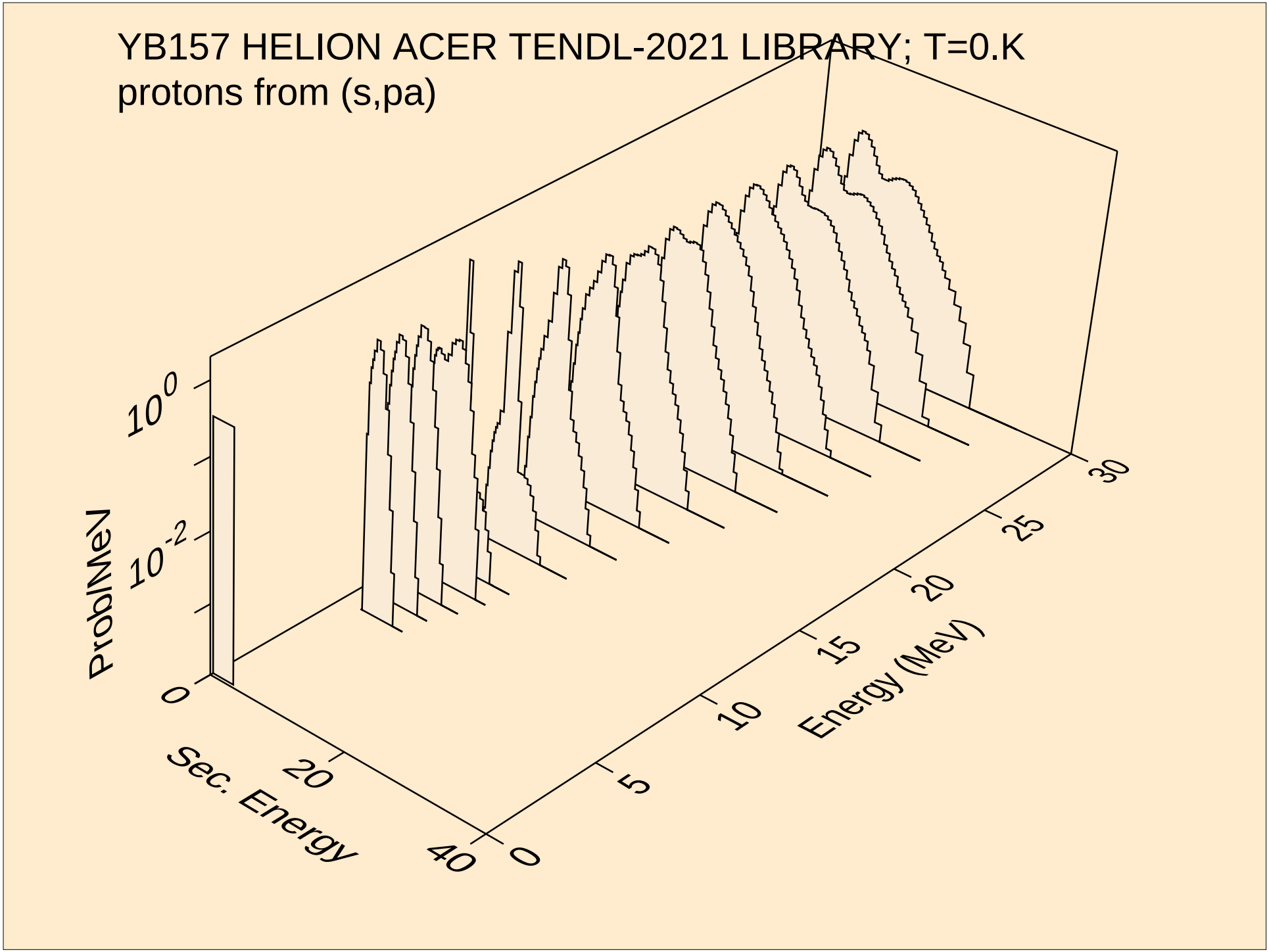

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
protons from (s,3np)
Prob/MeV
10-1
10-3
0
Sec. Energy
2
4
26.5
27.0
27.5
28.0
28.5
29.0
29.5
30.0
Energy (MeV)

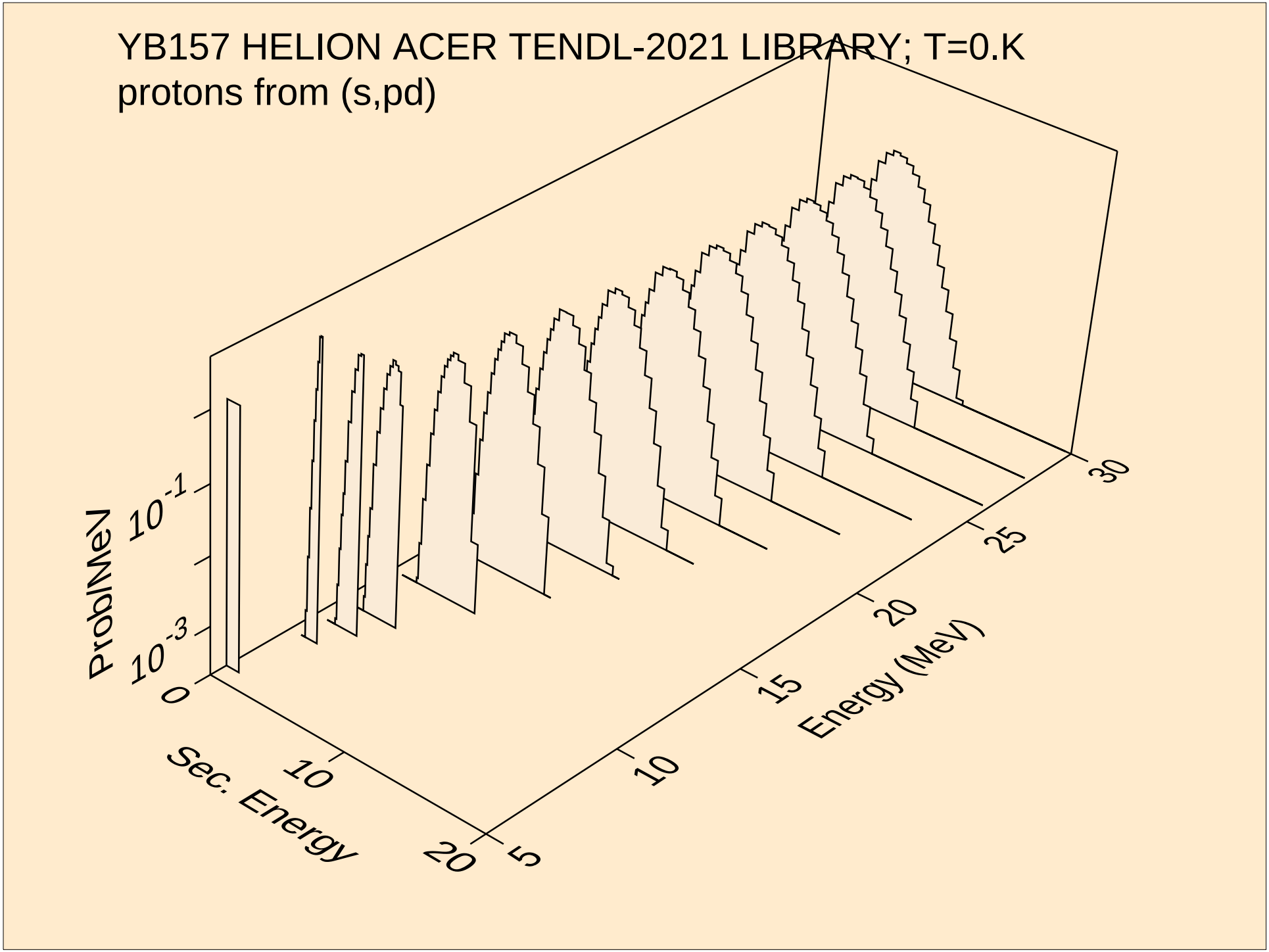

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
protons from (s,2np)
Prob/MeV
10^0
10^-2
0
Sec. Energy
10
20
5
10
15
20
25
30
Energy (MeV)

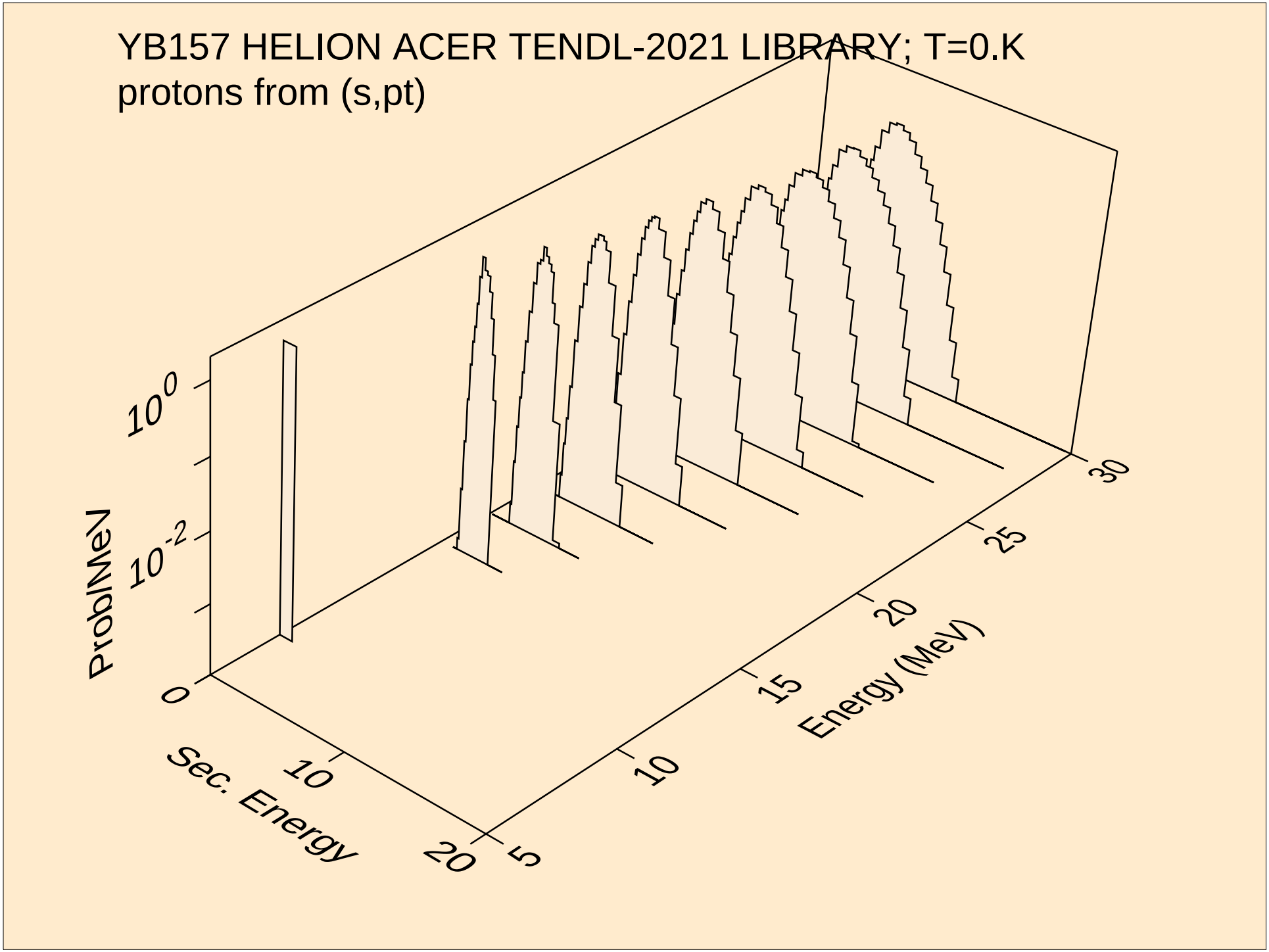

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
protons from (s,npa)
Prob/MeV
10^{0}
10^{-2}
10^{-4}
0
10
20
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)

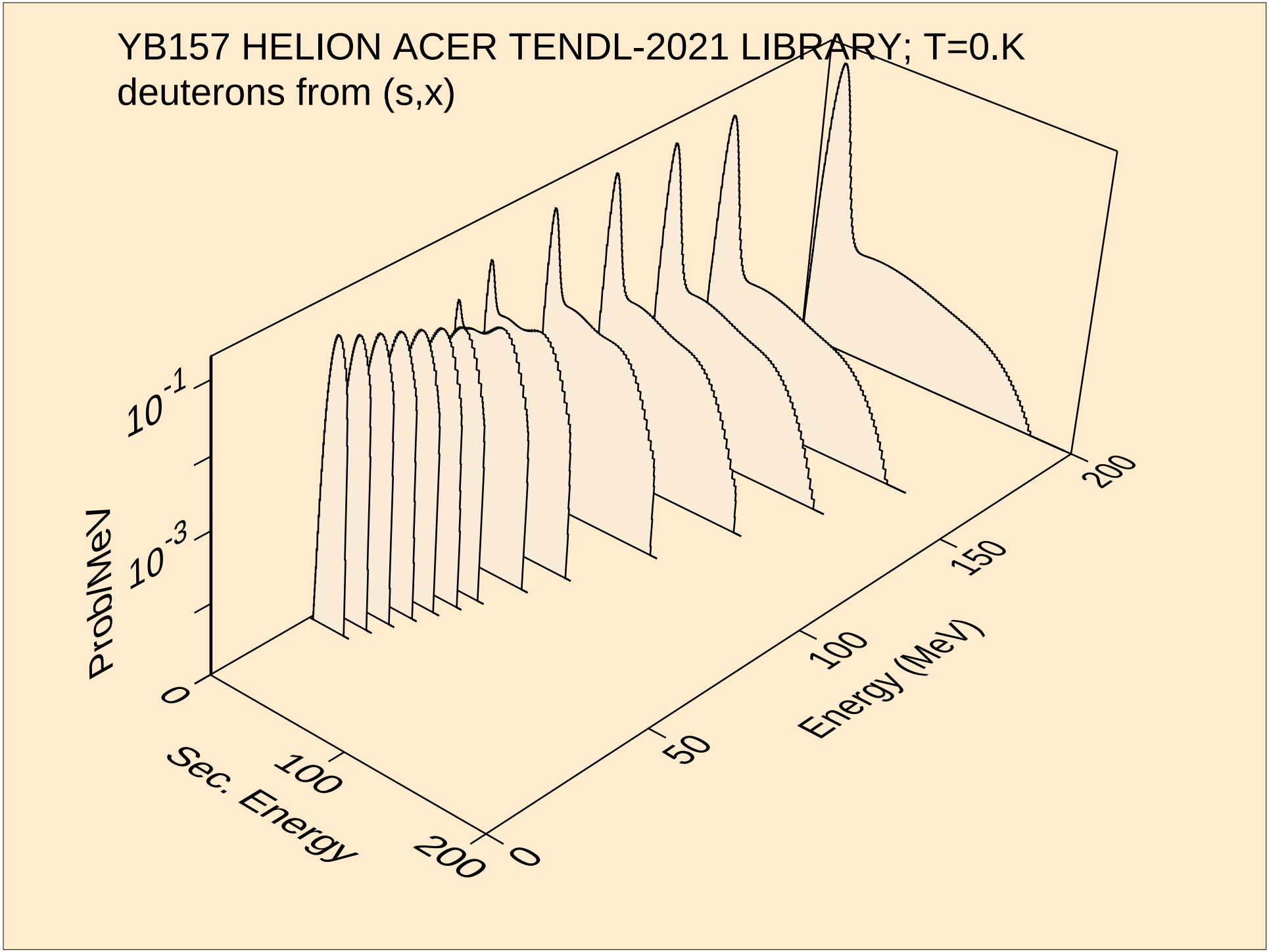

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
protons from (s,p)
Prob/MeV
10^0
10^-2
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)

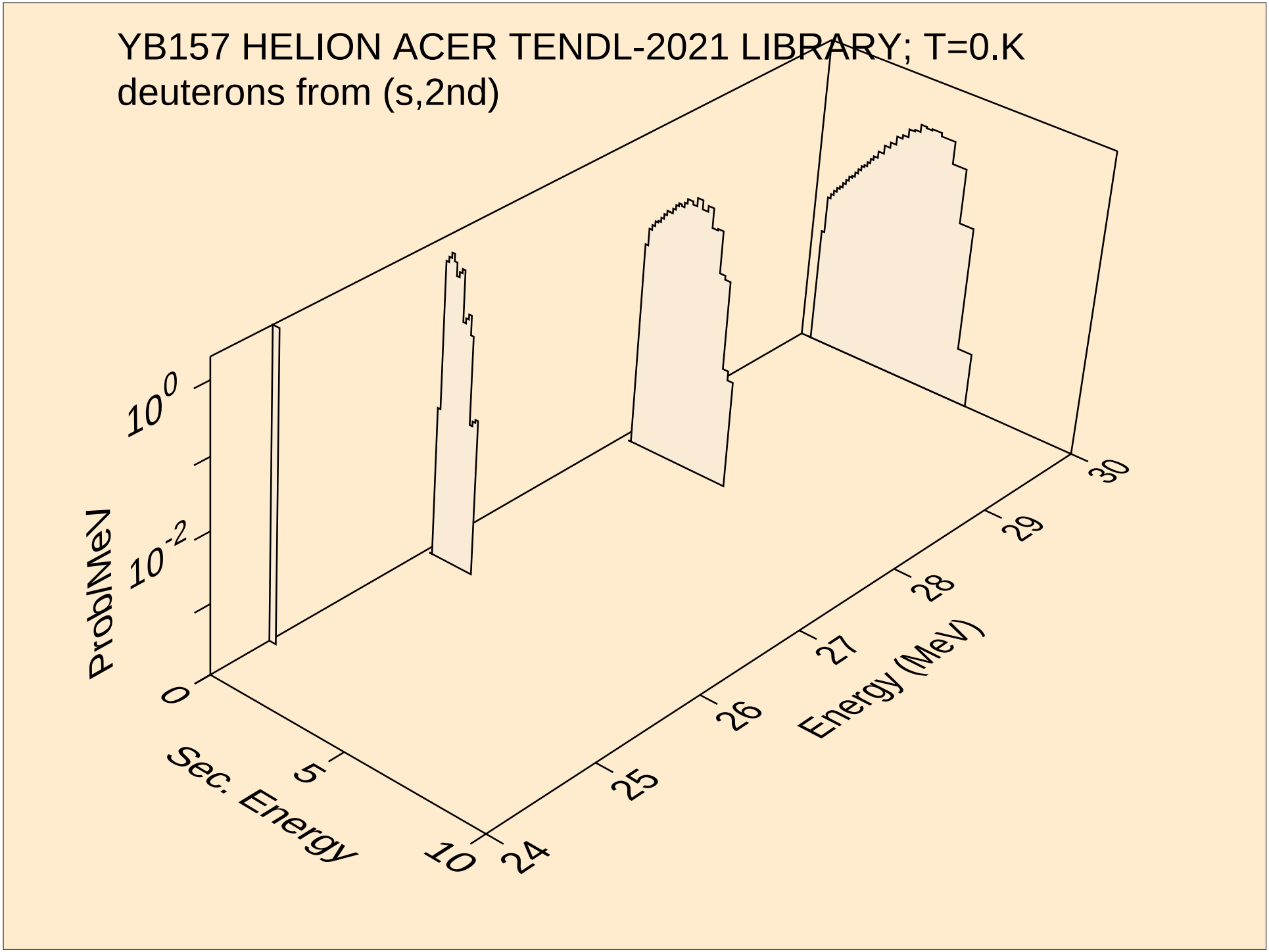

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
protons from (s,2p)
Prob/MeV
10^0
10^-2
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)

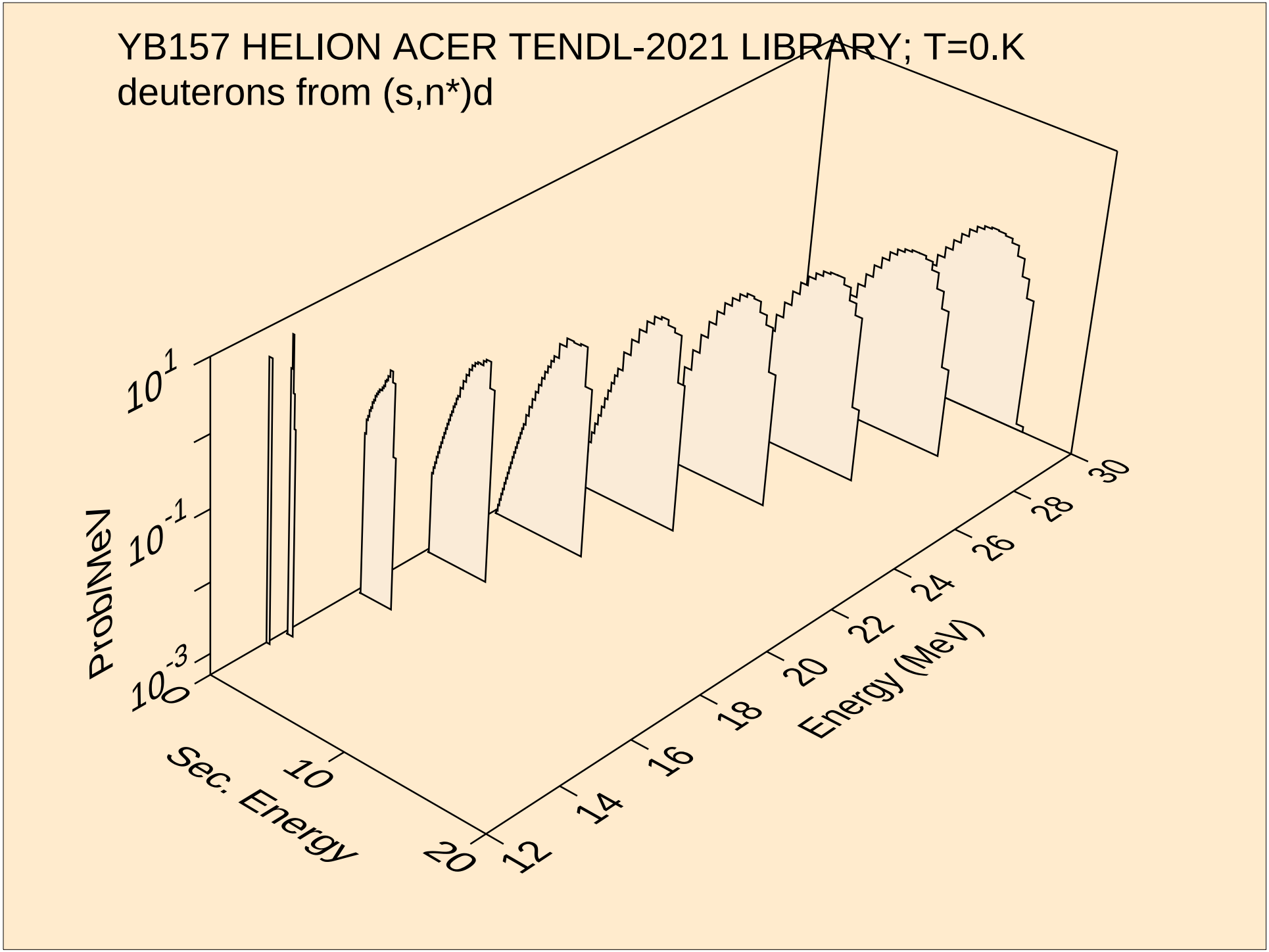

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
protons from (s,pa)
Prob/MeV
10^0
10^-2
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)

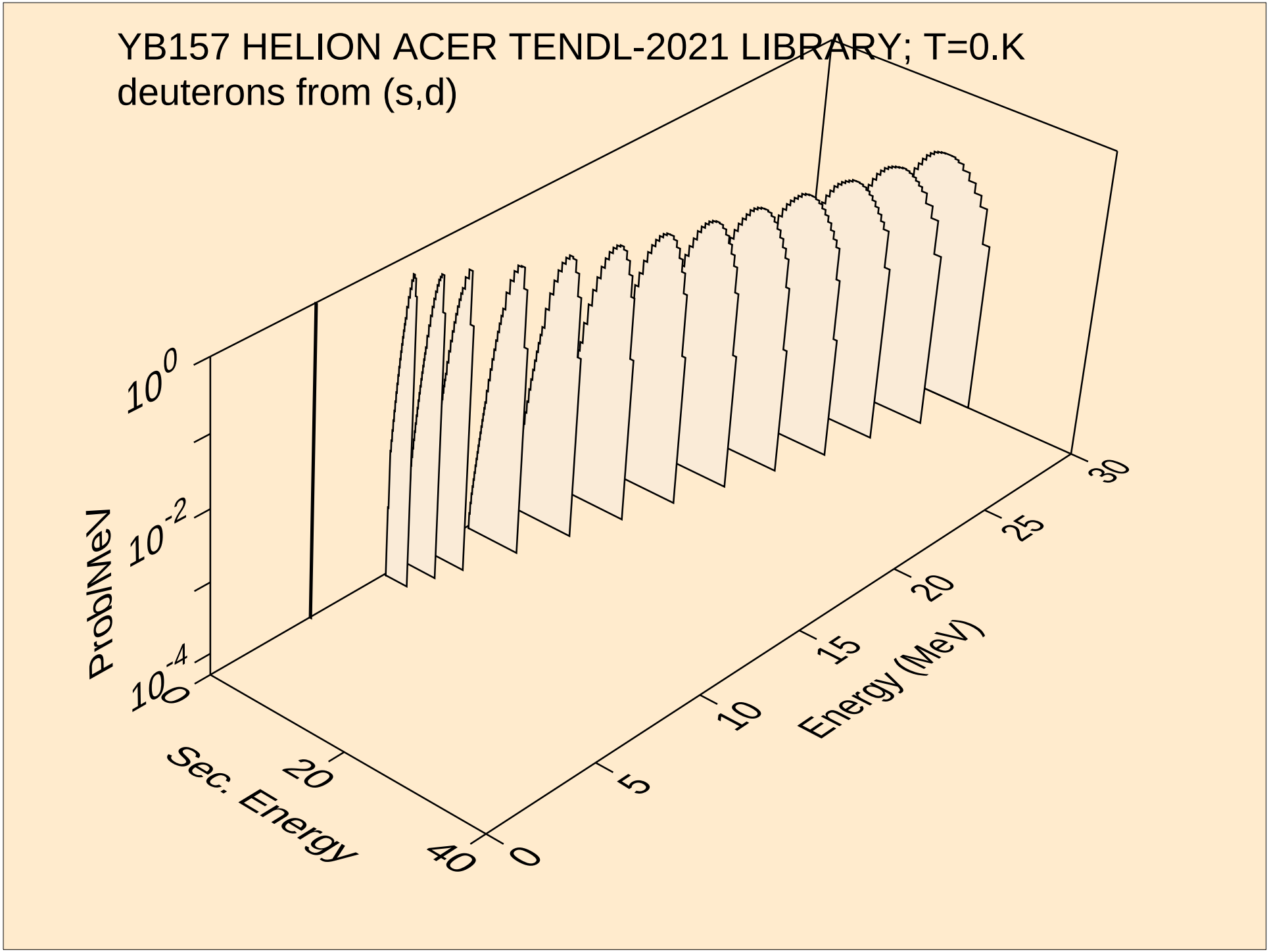

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
protons from (s,pd)
Prob/MeV
10-1
10-3
0
Sec. Energy
10
20
5
10
15
20
25
30
Energy (MeV)

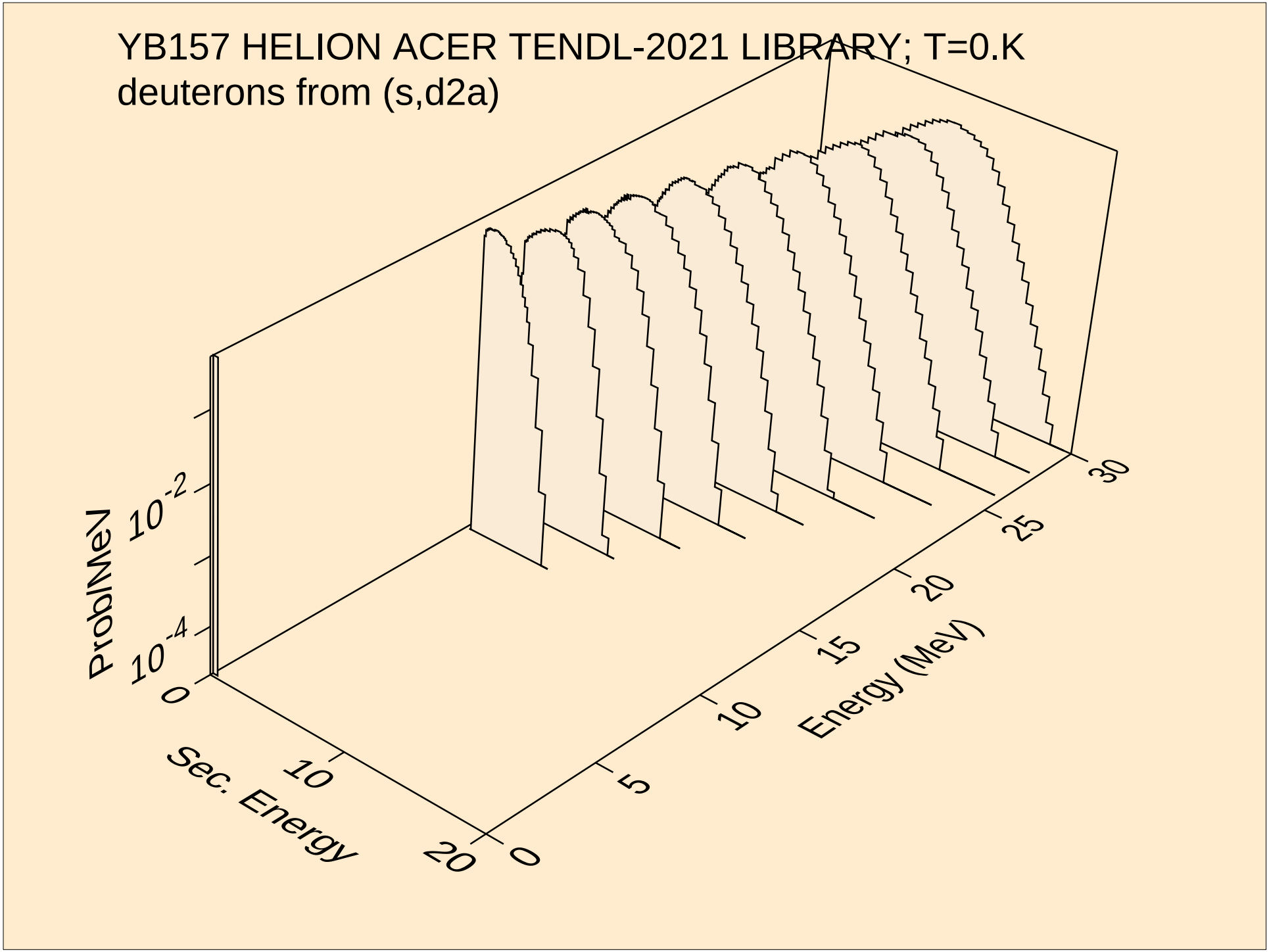

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
protons from (s,pt)
Prob/MeV
10^{0}
10^{-2}
0
Sec. Energy
10
20
5
10
15
20
25
30
Energy (MeV)

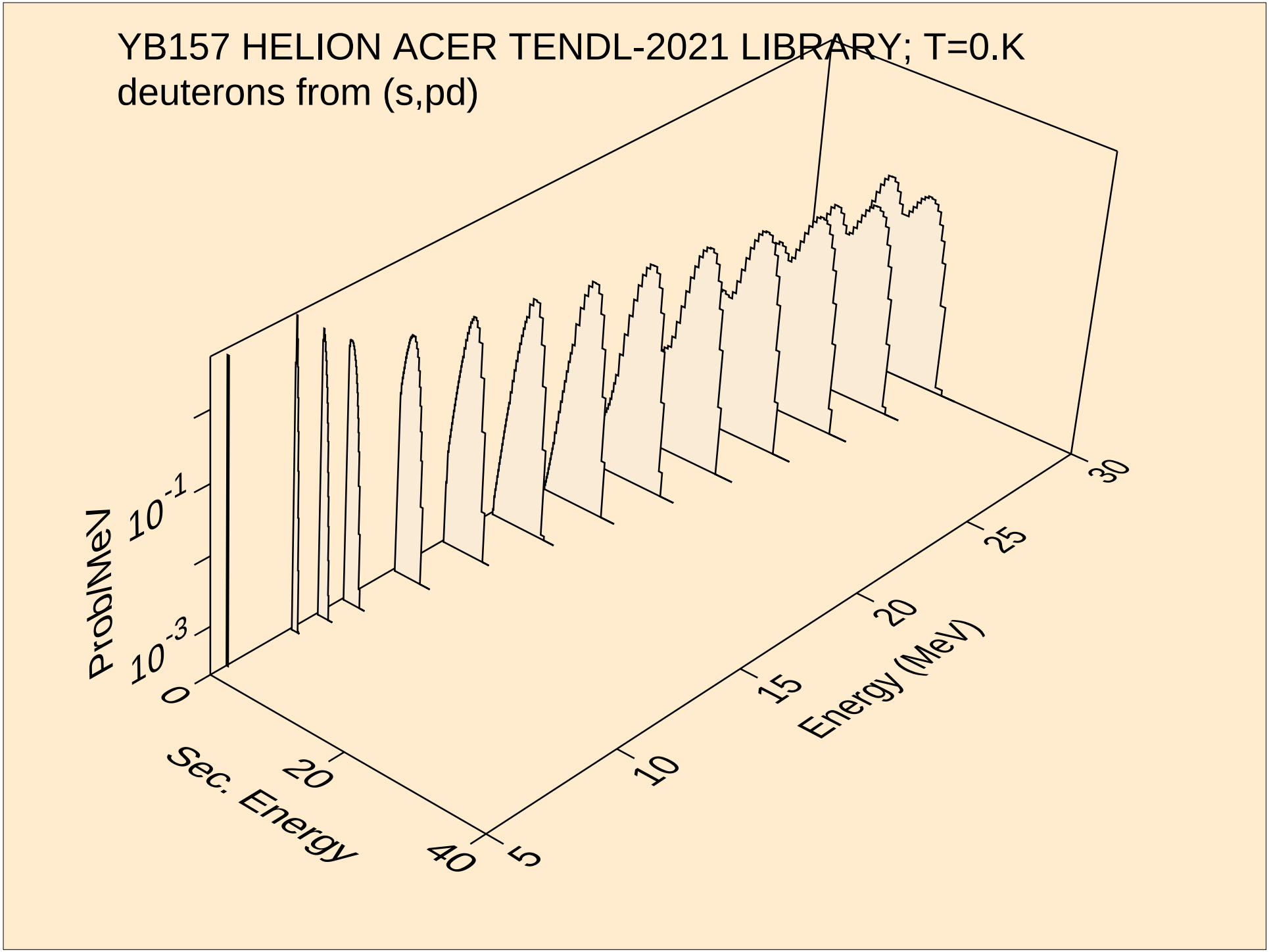

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
deuterons from (s,x)
Prob/MeV
10-1
10-3
0
Sec. Energy
100
200
0
50
100
150
200
Energy (MeV)

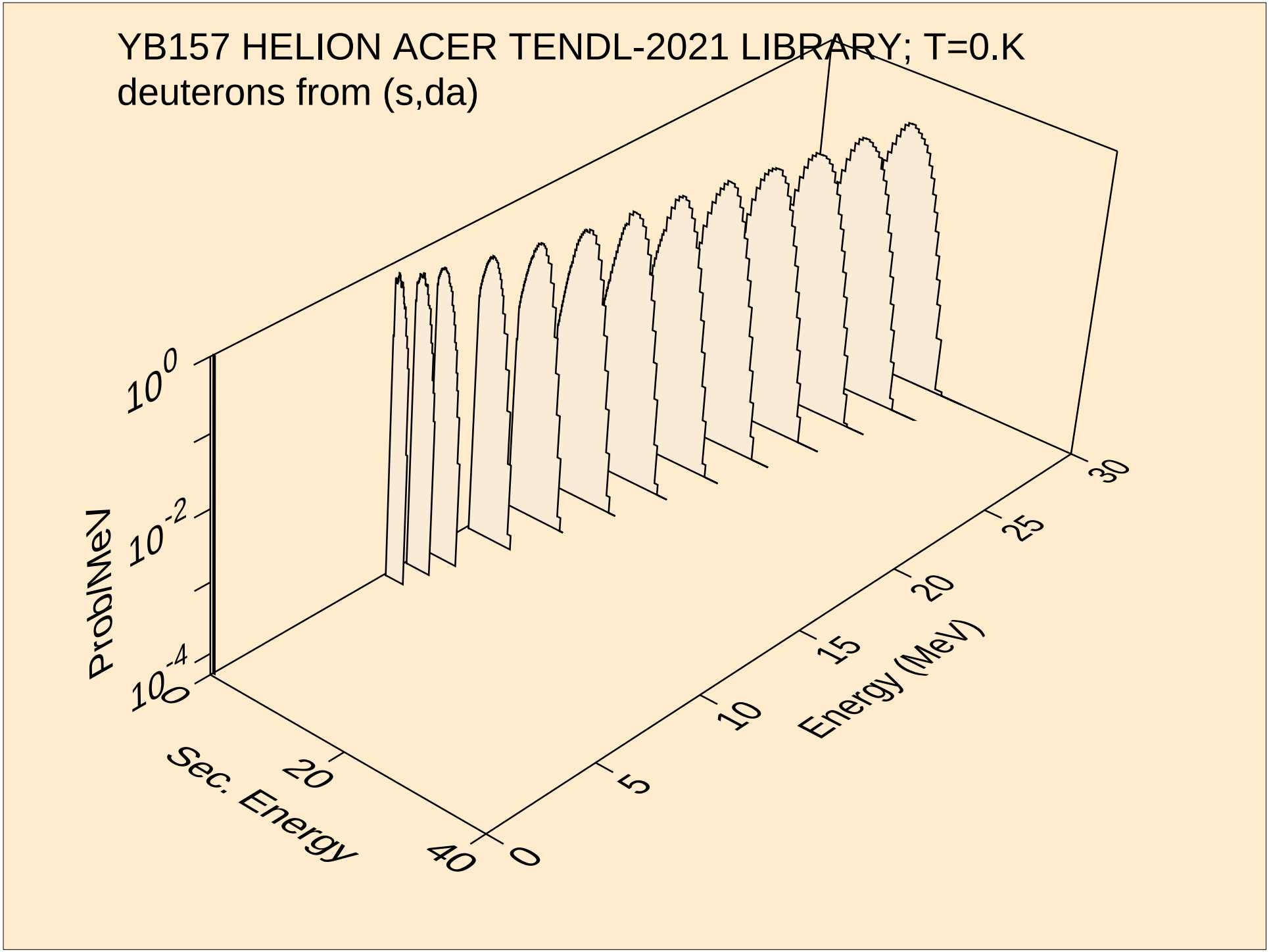

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
deuterons from (s,2nd)
Prob/MeV
10^0
10^-2
0
Sec. Energy
5
10
24
25
26
27
28
29
30
Energy (MeV)

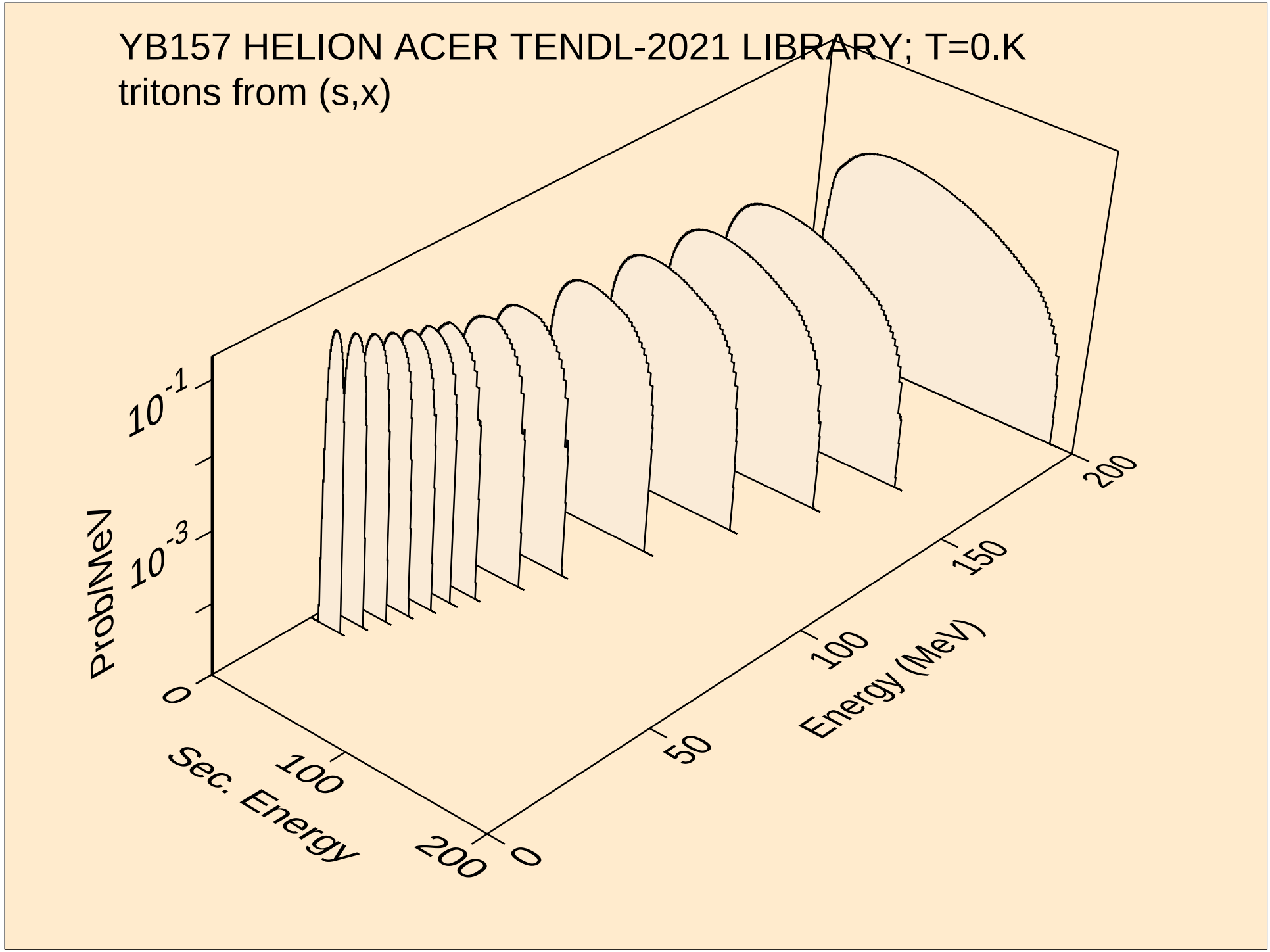

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
deuterons from (s,n*)d
Prob/MeV
10^{1}
10^{-1}
10^{-3}
0
10
20
Sec. Energy
12
14
16
18
20
22
24
26
28
30
Energy (MeV)

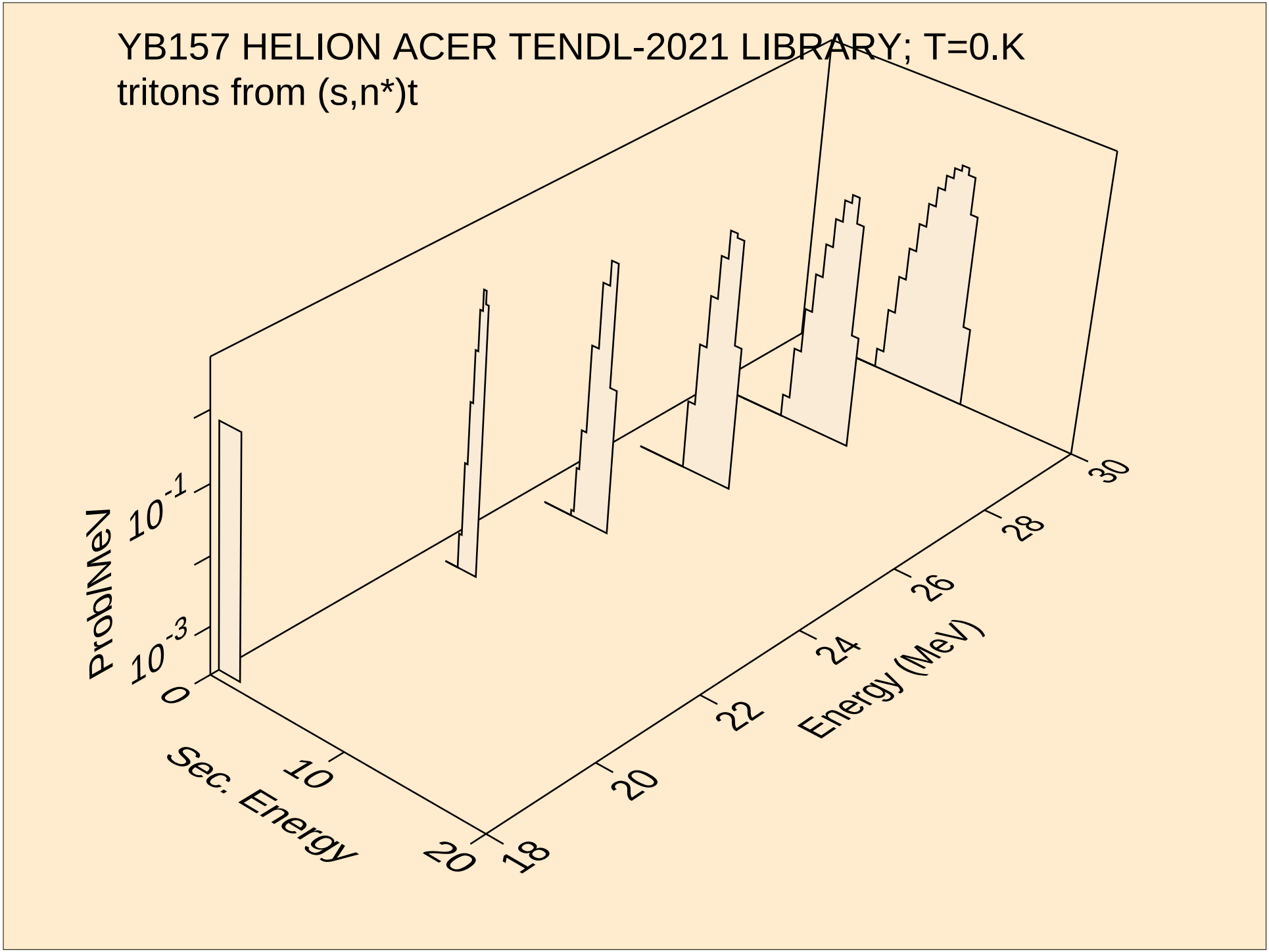

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
deuterons from (s,d)
Prob/MeV
10^0
10^-2
10^-4
0
20
40
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)

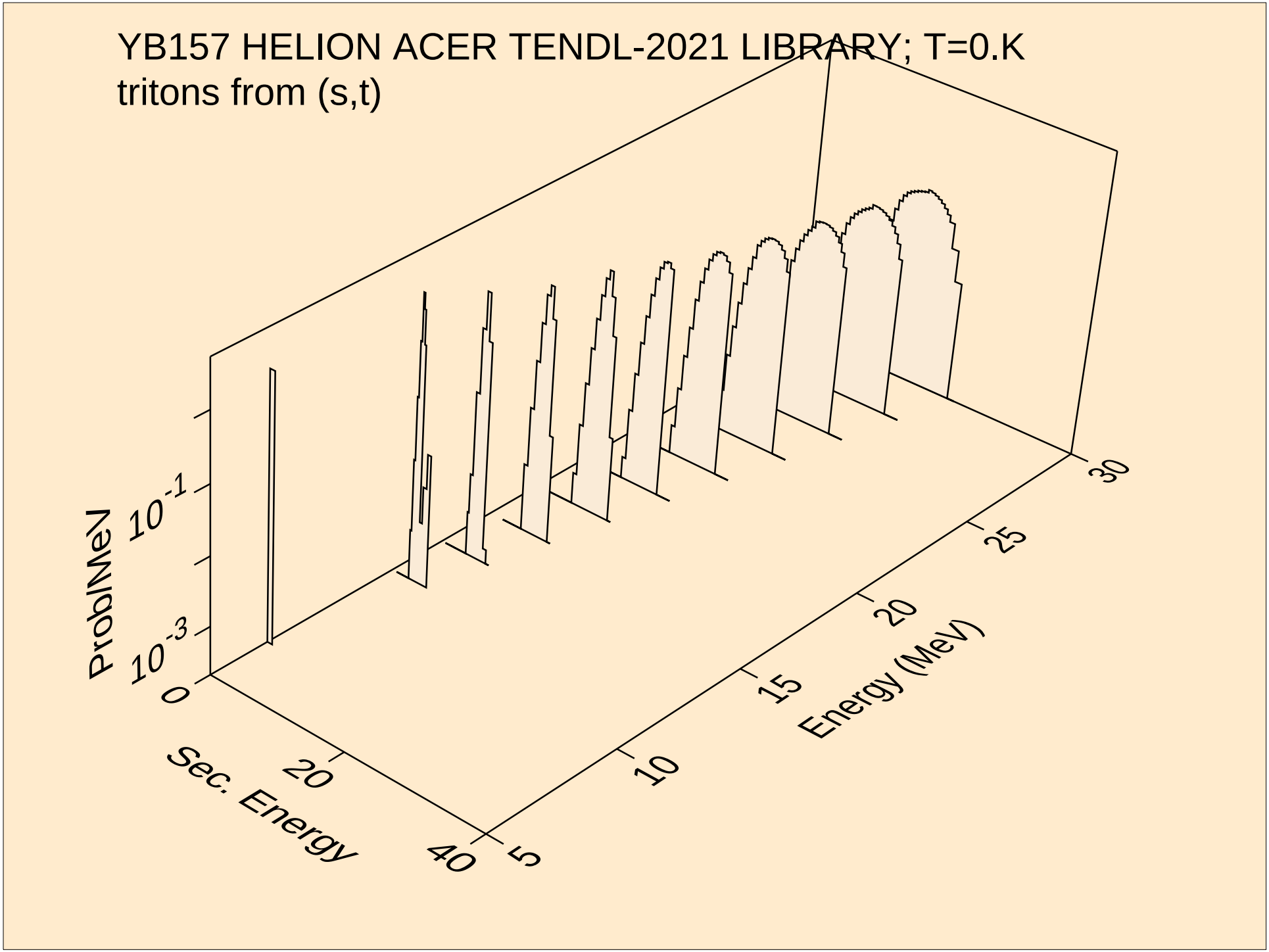

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
deuterons from (s,d2a)
Prob/MeV
10-2
10-4
0
Sec. Energy
10
20
0
5
10
15
20
25
30
Energy (MeV)

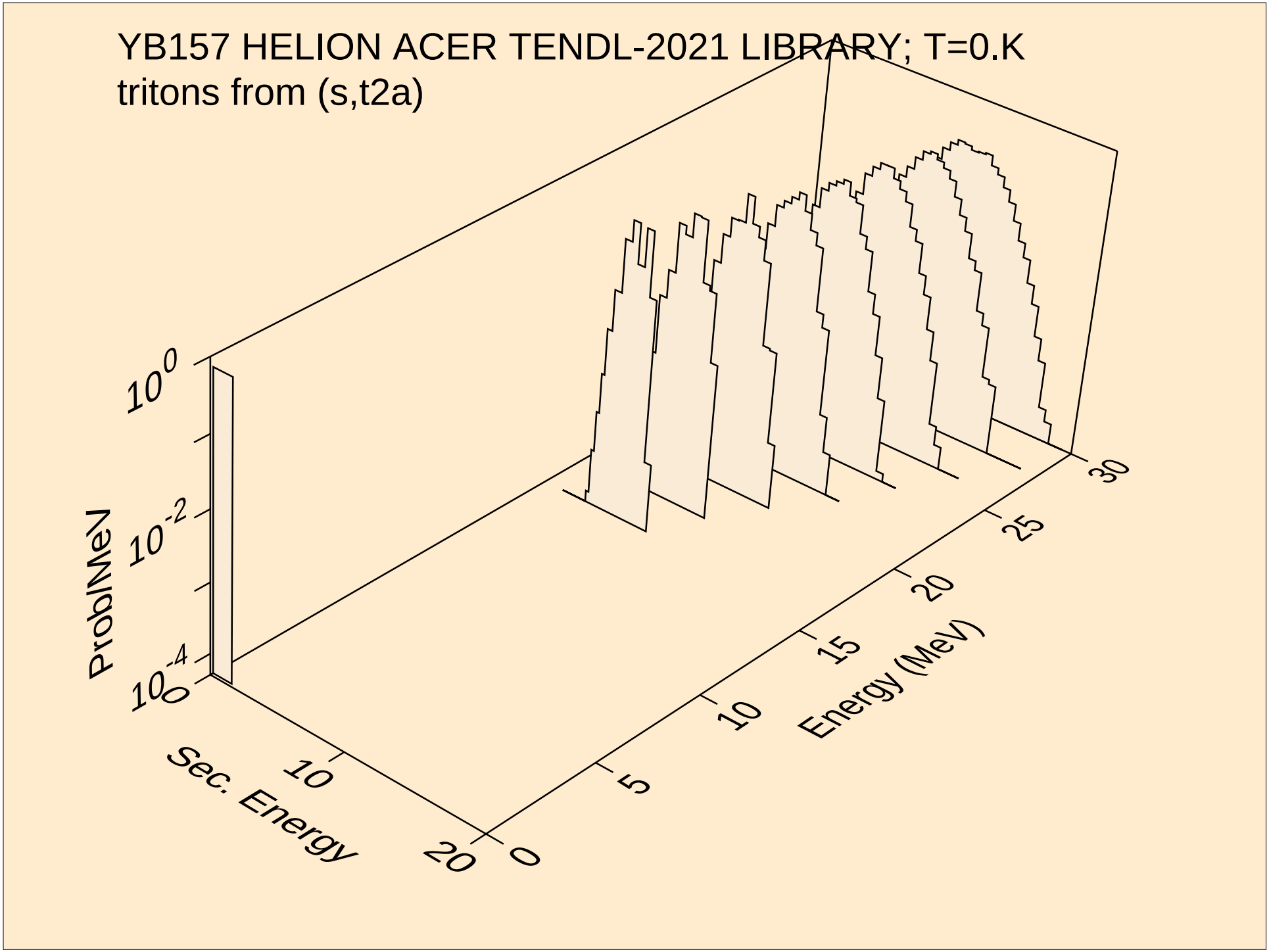

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
deuterons from (s,pd)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
5
10
15
20
25
30
Energy (MeV)

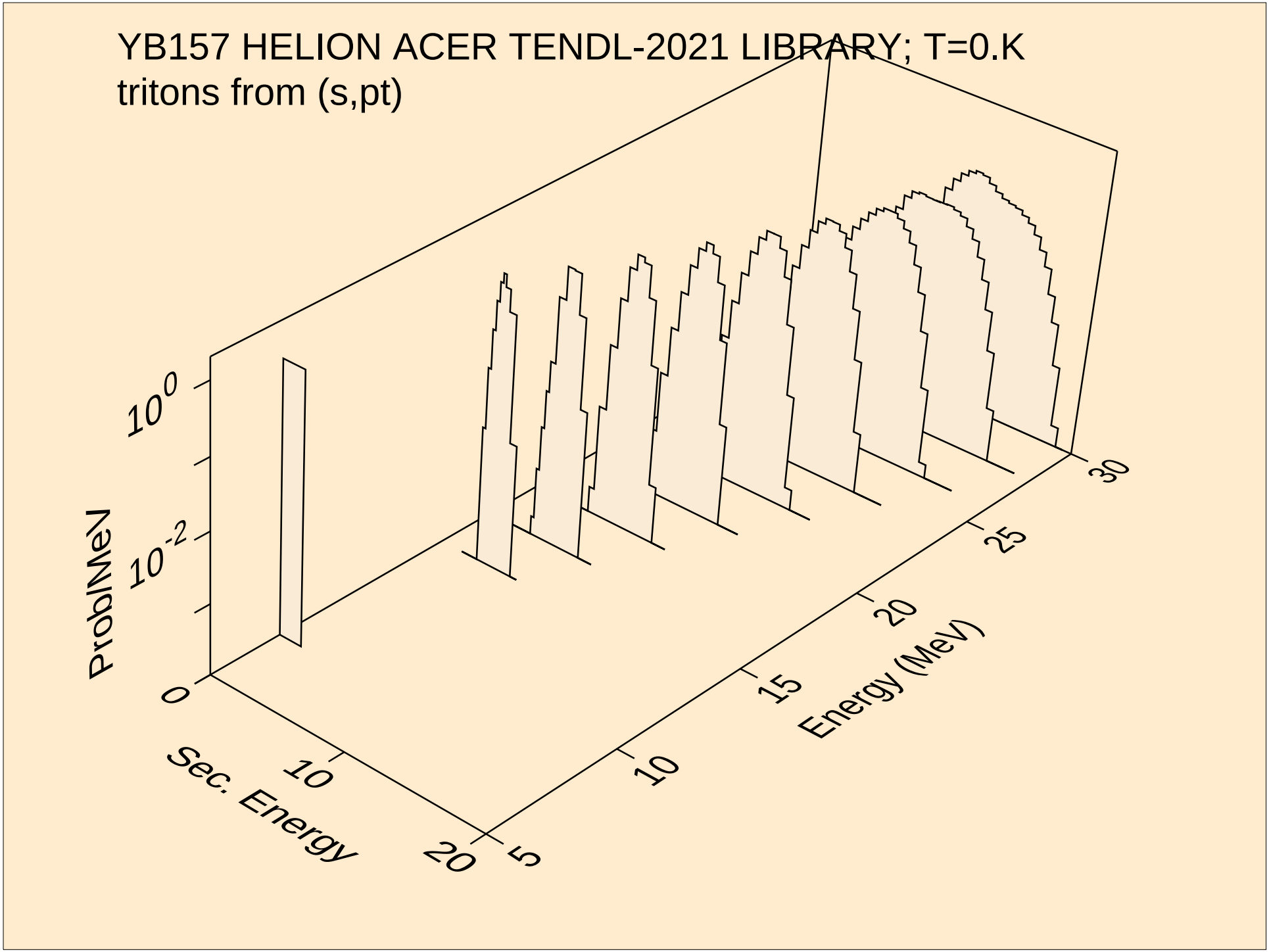

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
deuterons from (s,da)
Prob/MeV
10^{0}
10^{-2}
10^{-4}
0
20
40
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)

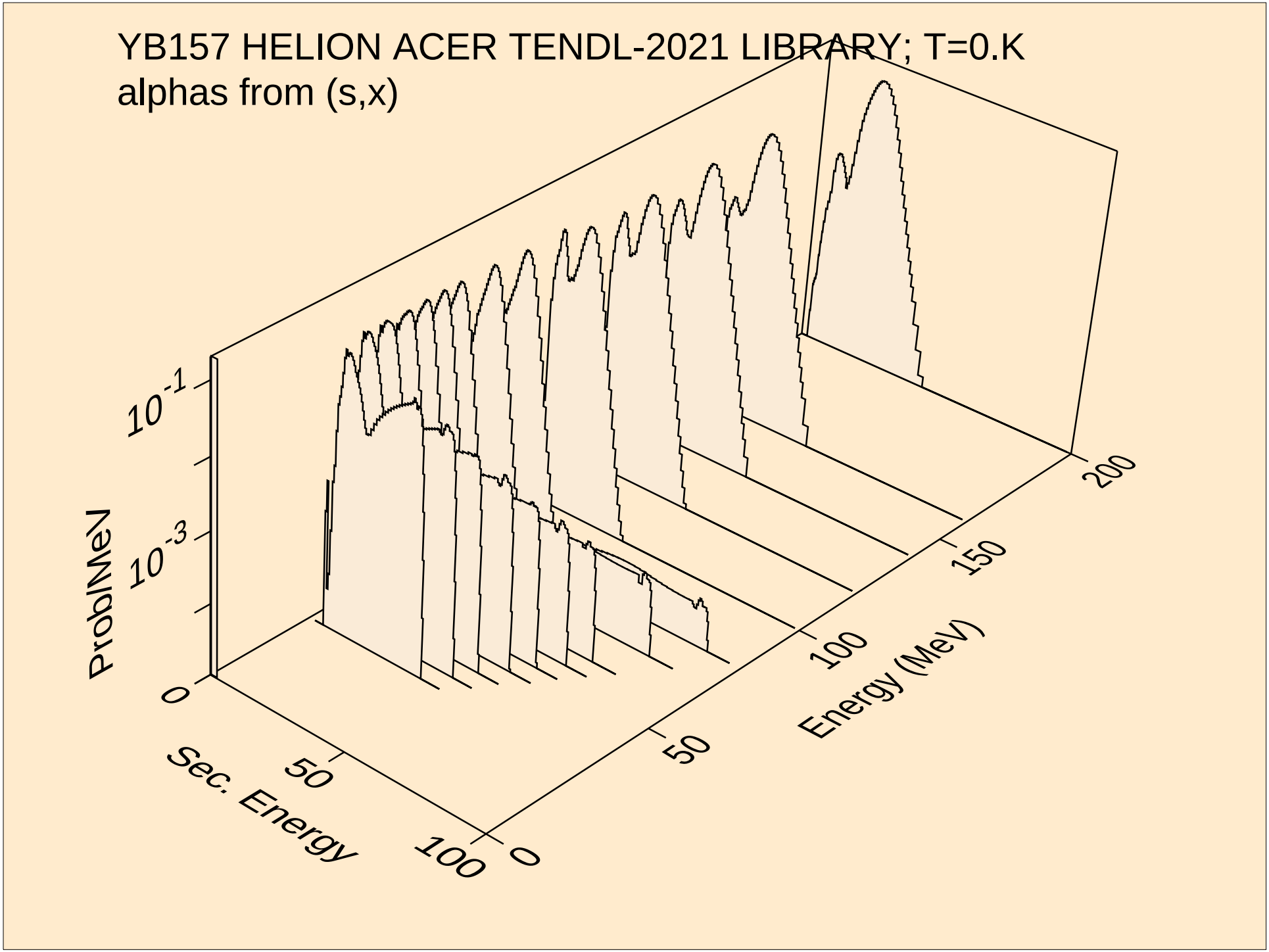

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
tritons from (s,x)
Prob/MeV
10-1
10-3
0
Sec. Energy
100
200
0
50
100
150
200
Energy (MeV)

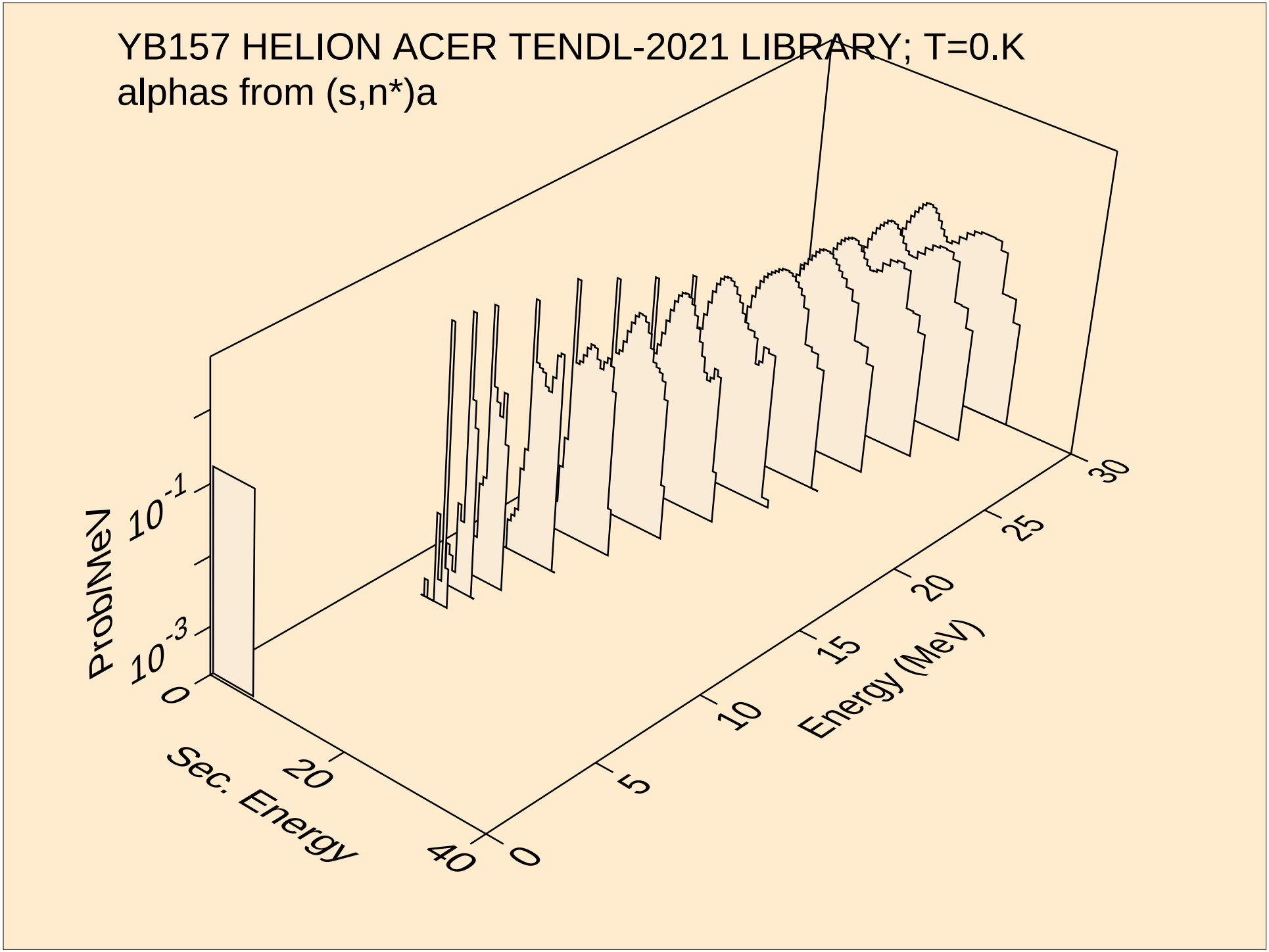

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
tritons from (s,n*)t
Prob/MeV
10-1
10-3
0
Sec. Energy
10
20
18
20
22
24
26
28
30
Energy (MeV)

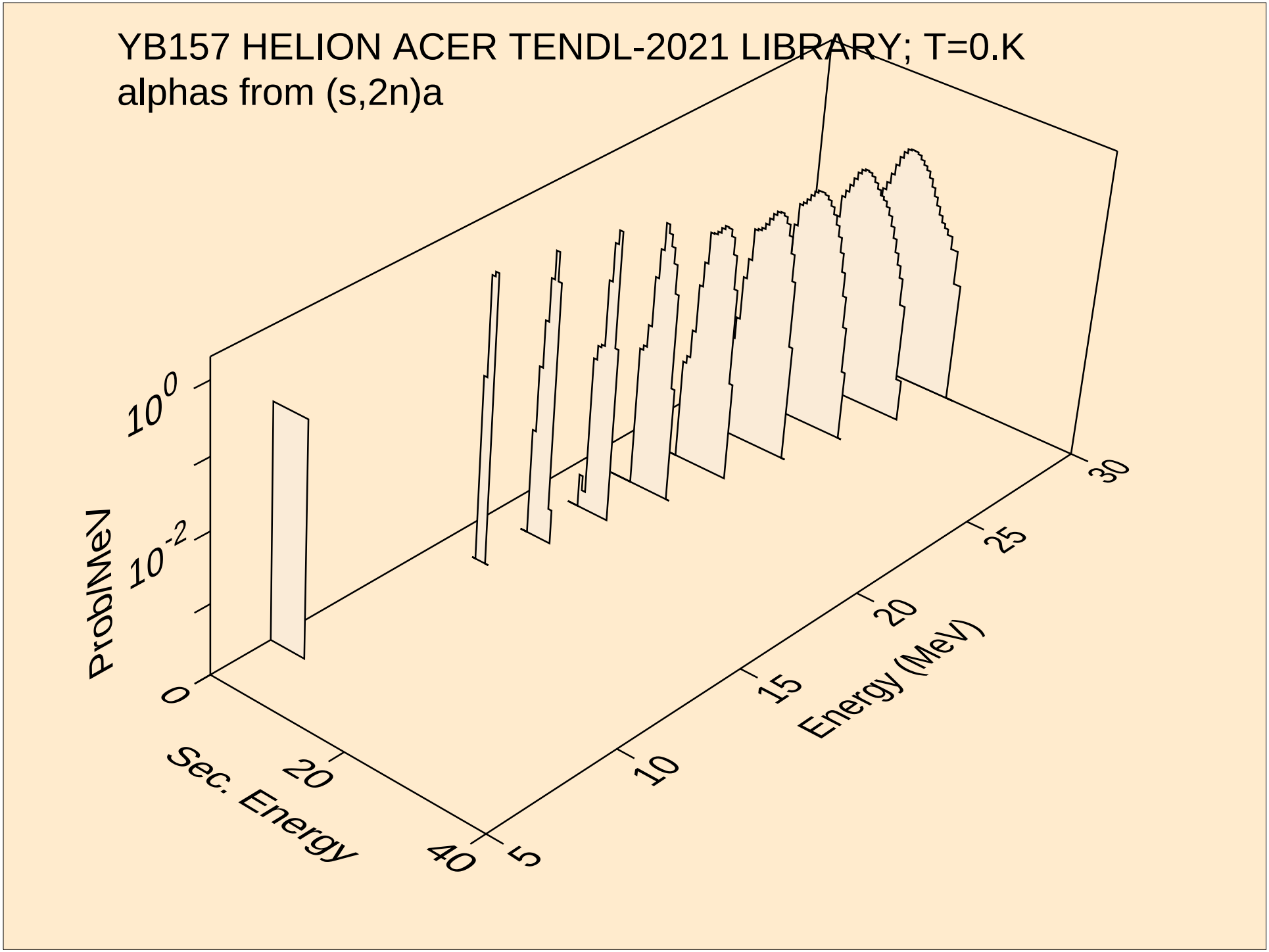

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
tritons from (s,t)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
5
10
15
20
25
30
Energy (MeV)

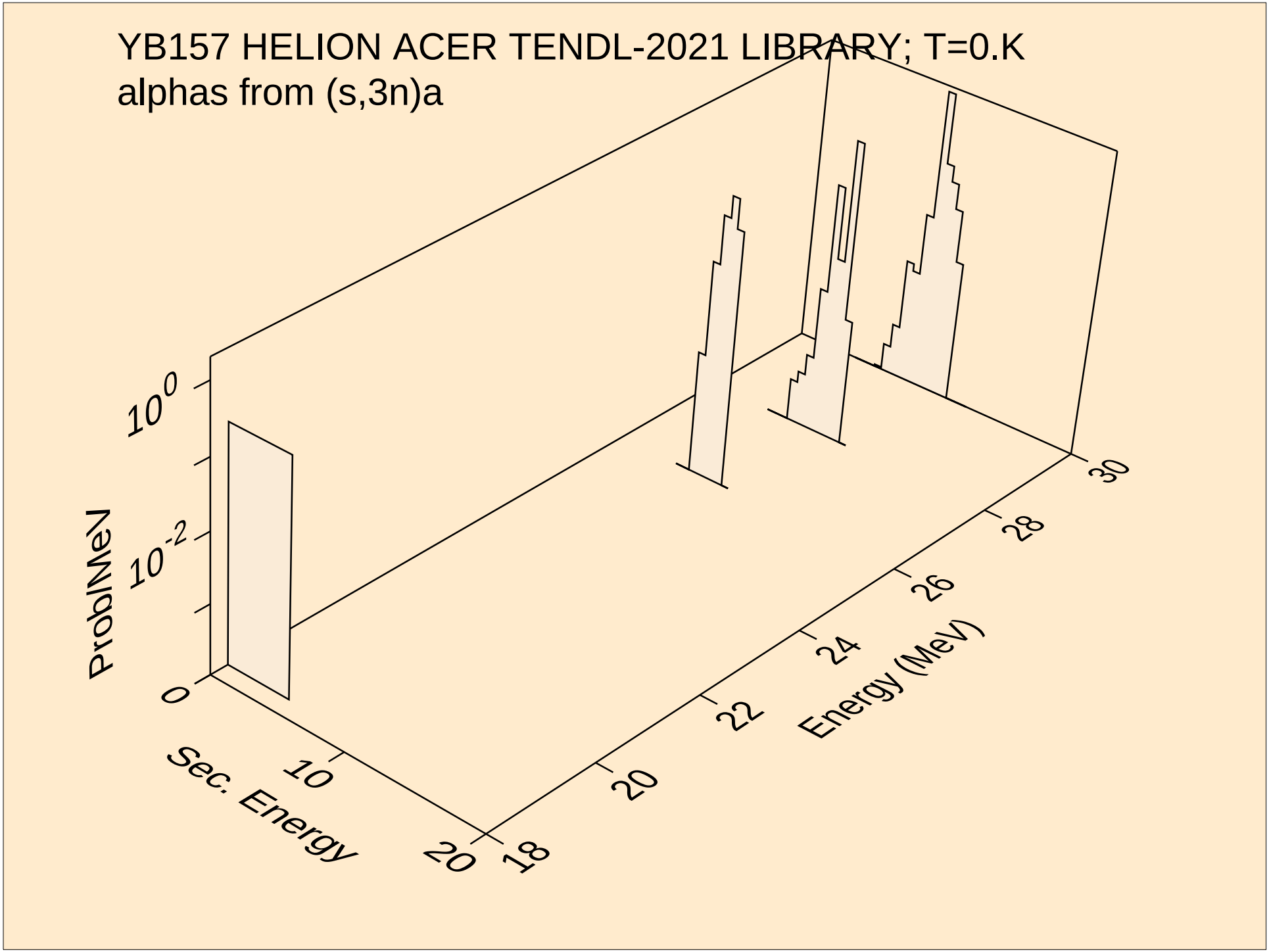

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
tritons from (s,t2a)
Prob/MeV
10^0
10^-2
10^-4
0
10
20
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)

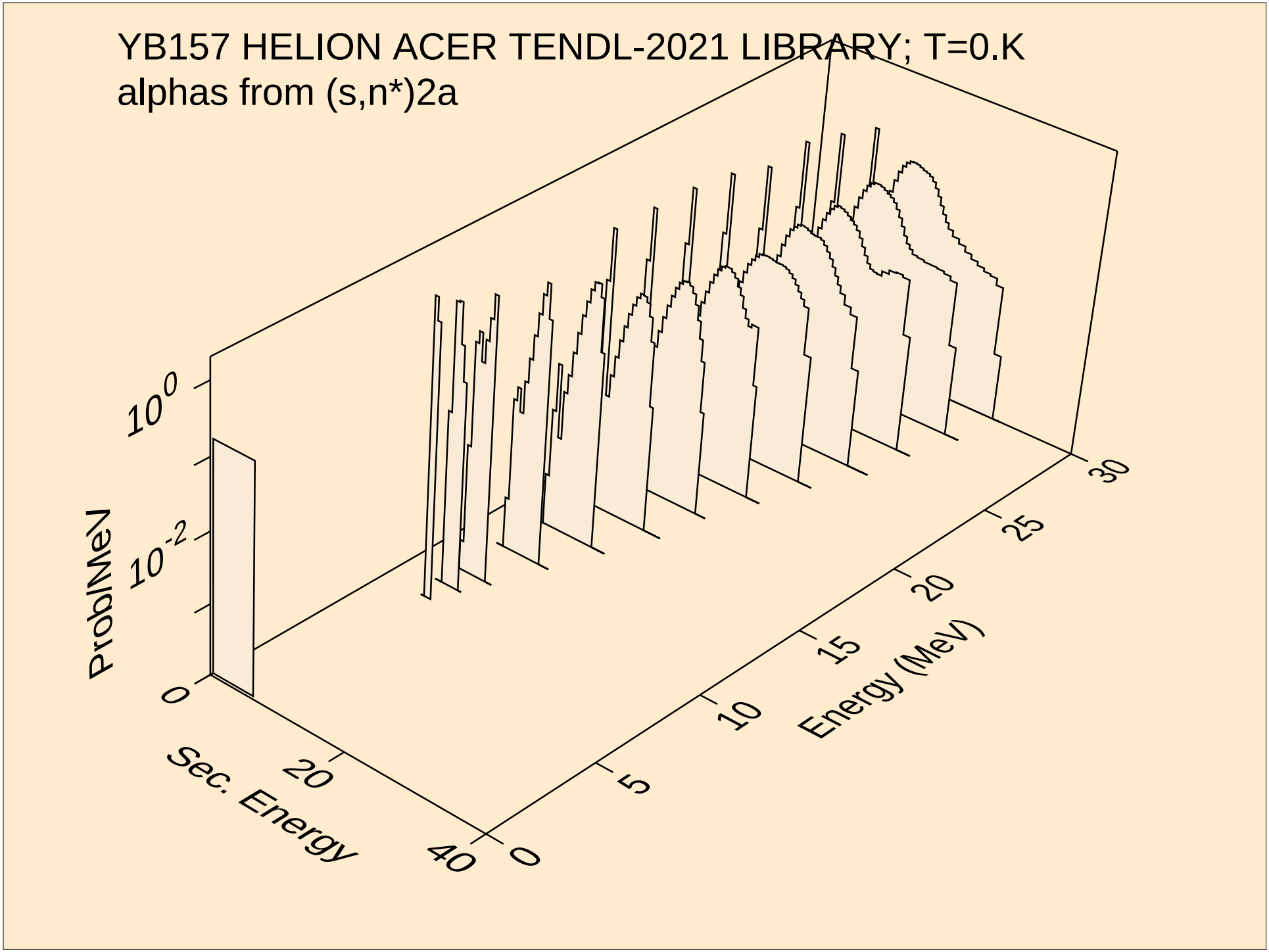

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
tritons from (s,pt)
Prob/MeV
10^0
10^-2
0
Sec. Energy
10
20
5
10
15
20
25
30
Energy (MeV)

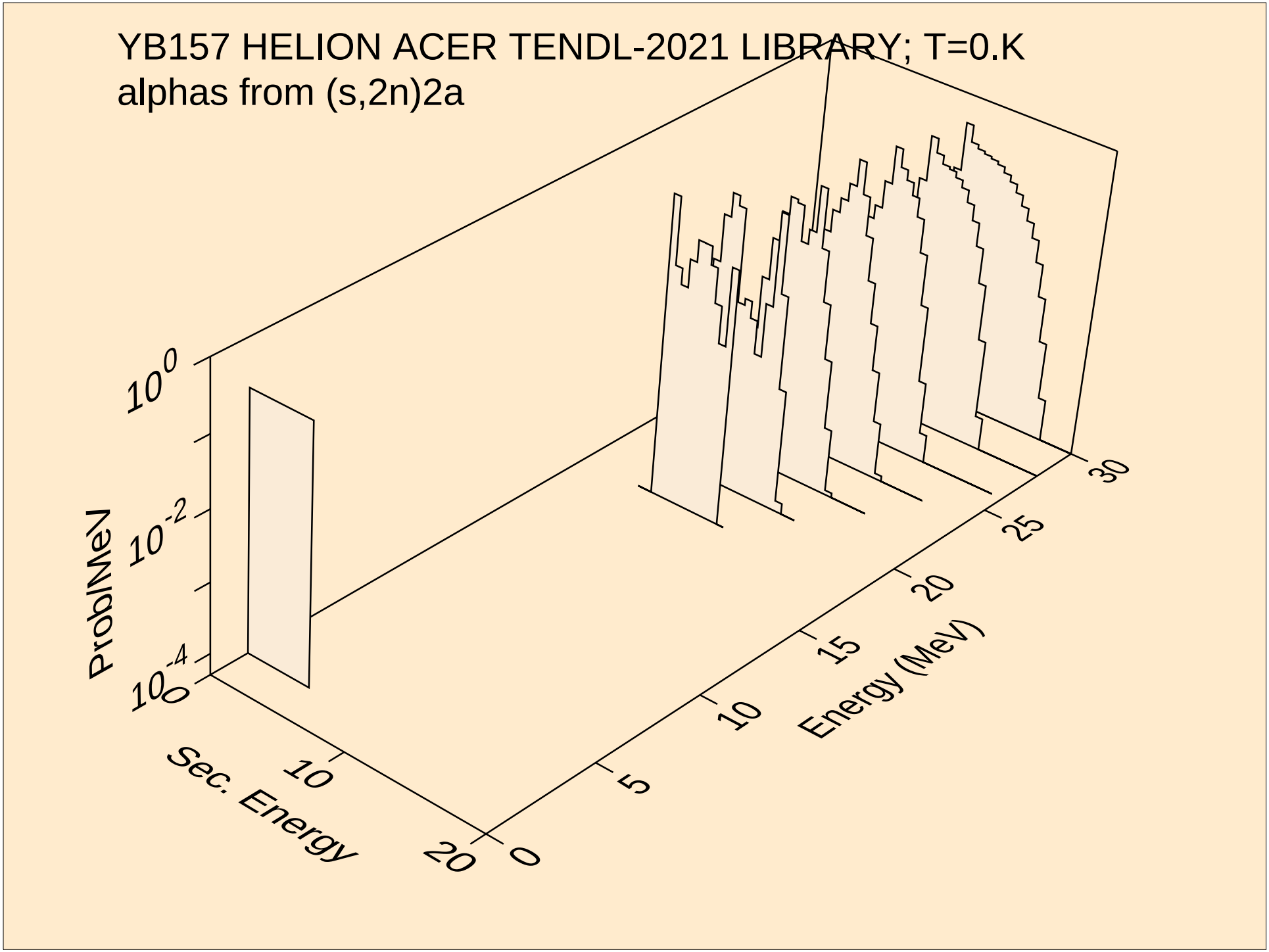

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
alphas from (s,x)
Prob/MeV
10-1
10-3
0
Sec. Energy
50
100
0
50
100
150
200
Energy (MeV)

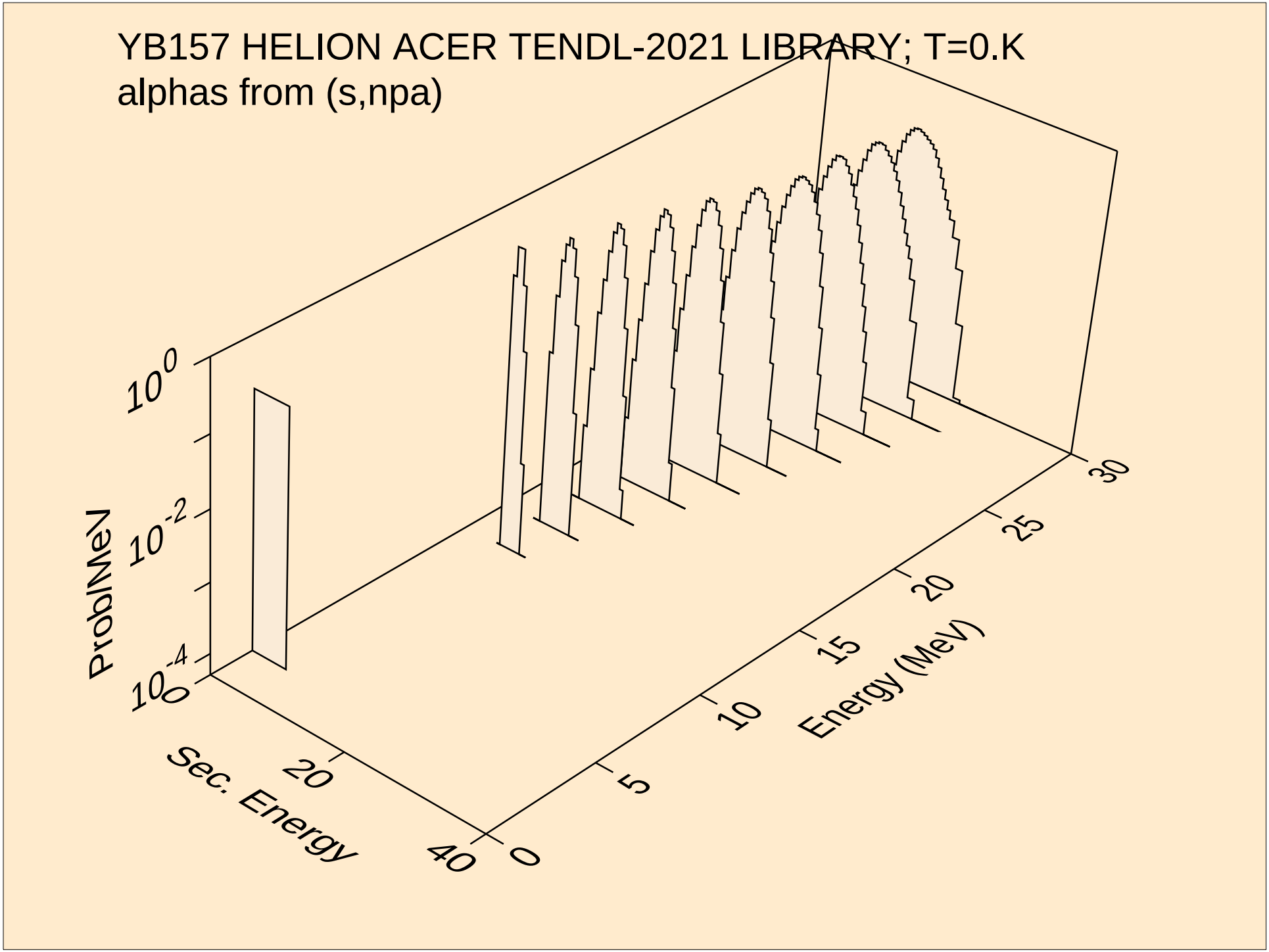

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
alphas from (s,n*)a
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)

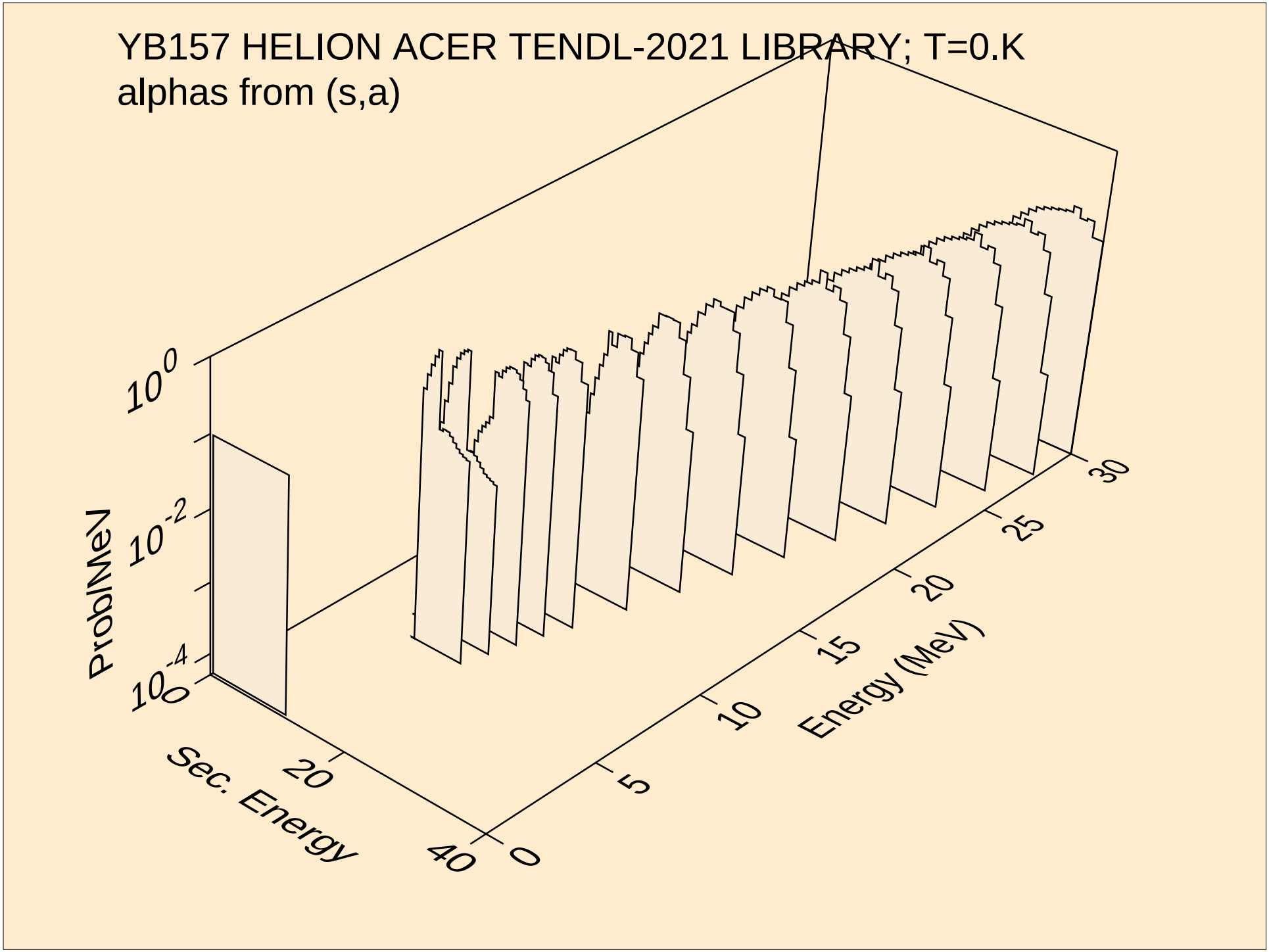

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
alphas from (s,2n)a
Prob/MeV
10^0
10^-2
0
Sec. Energy
20
40
5
10
15
Energy (MeV)
20
25
30

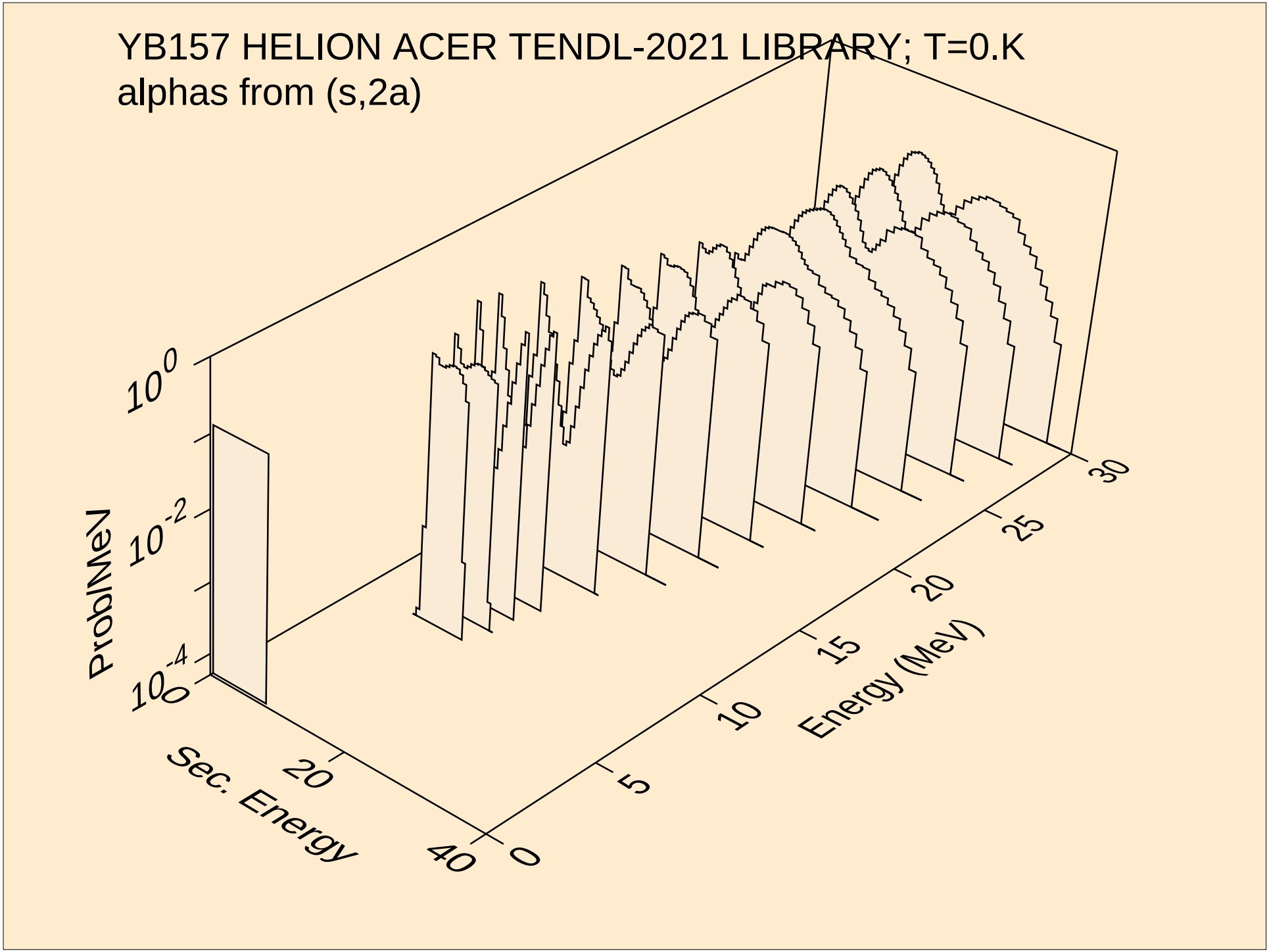

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
alphas from (s,3n)a
Prob/MeV
10^{0}
10^{-2}
0
Sec. Energy
10
20
Energy (MeV)
18
20
22
24
26
28
30

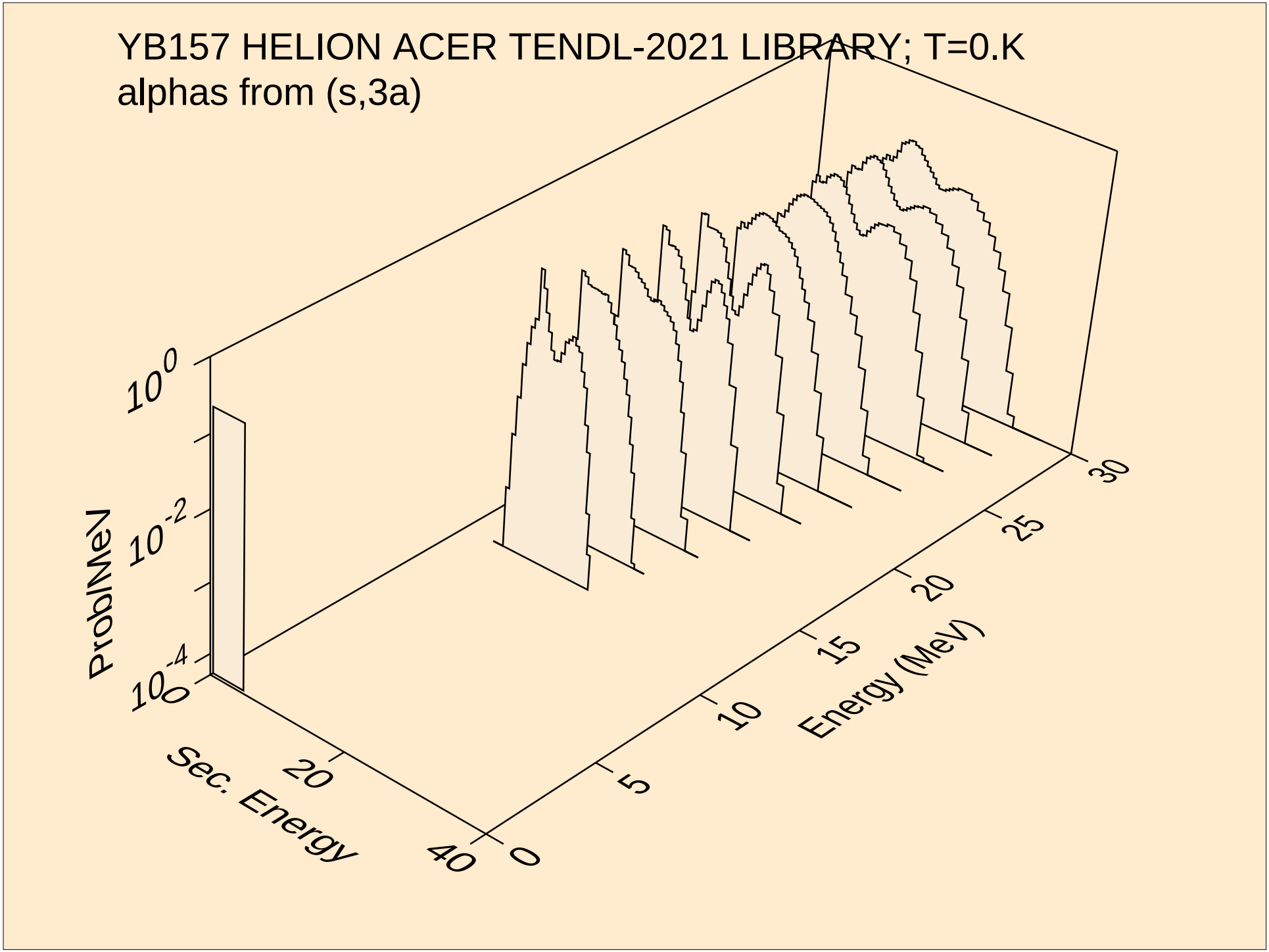

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
alphas from (s,n*)2a
Prob/MeV
10^0
10^-2
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)

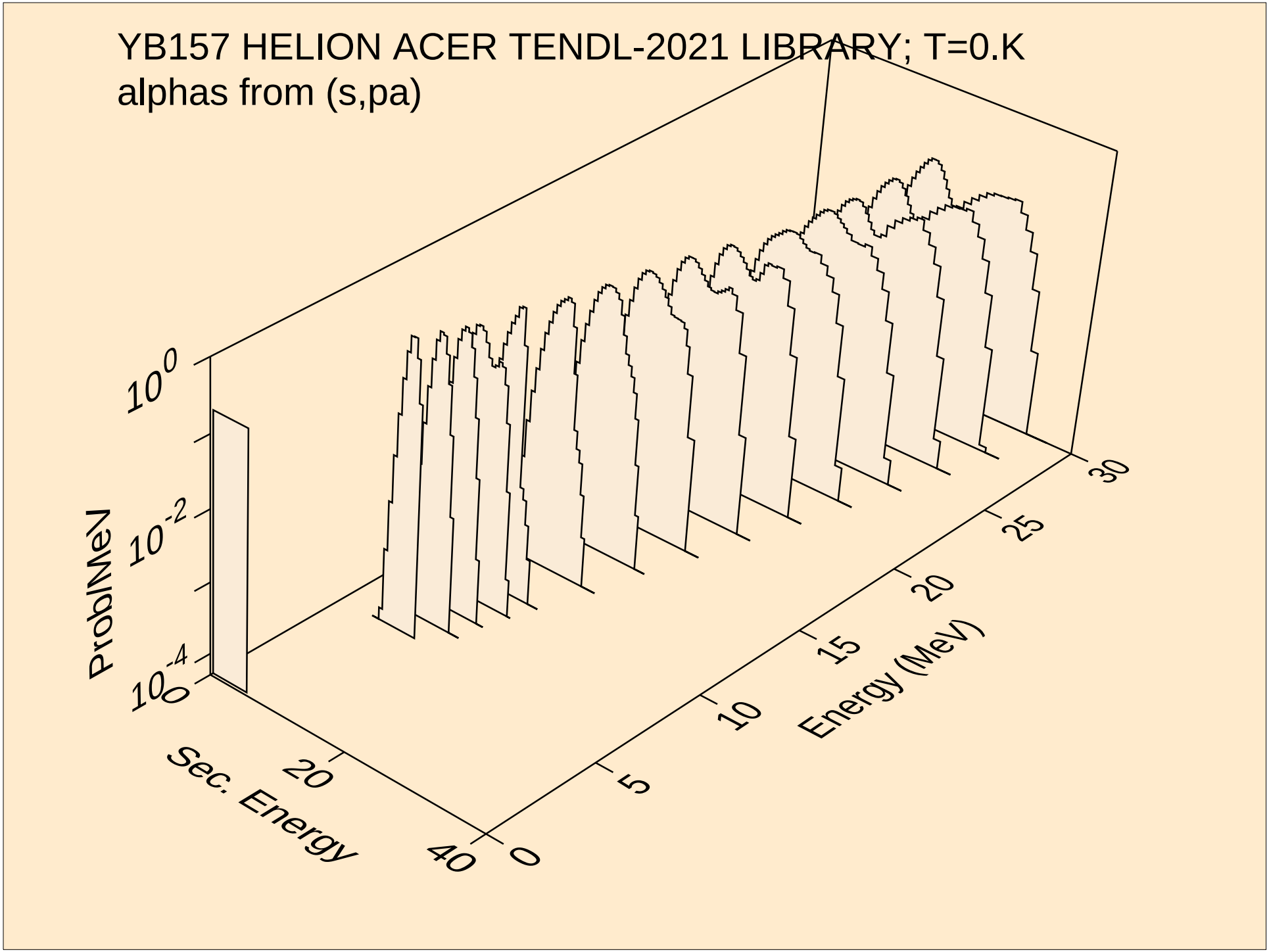

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
alphas from (s,2n)2a
Prob/MeV
10^{0}
10^{-2}
10^{-4}
0
10
20
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)

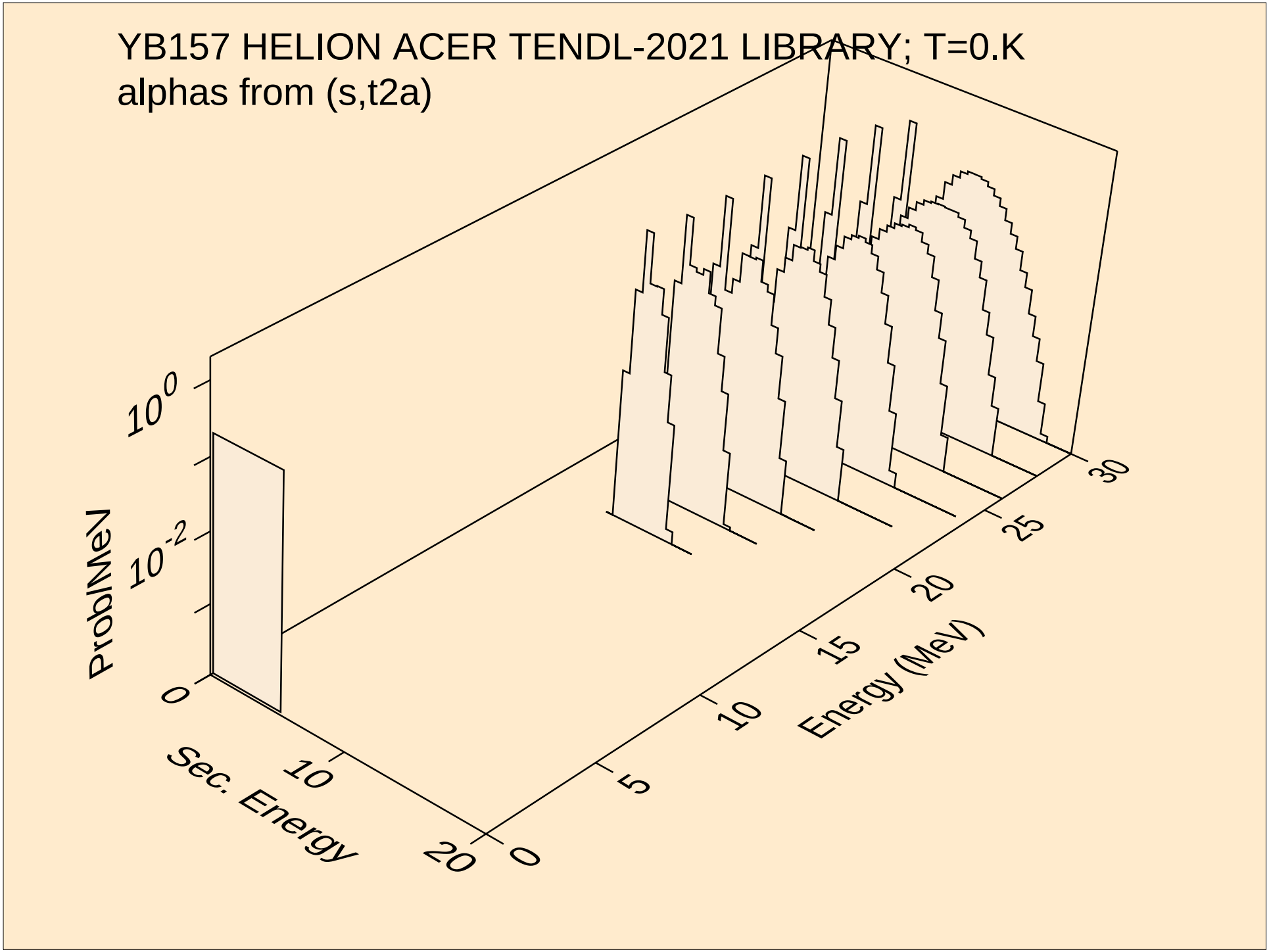

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
alphas from (s,npa)
Prob/MeV
10^0
10^-2
10^-4
0
20
40
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)

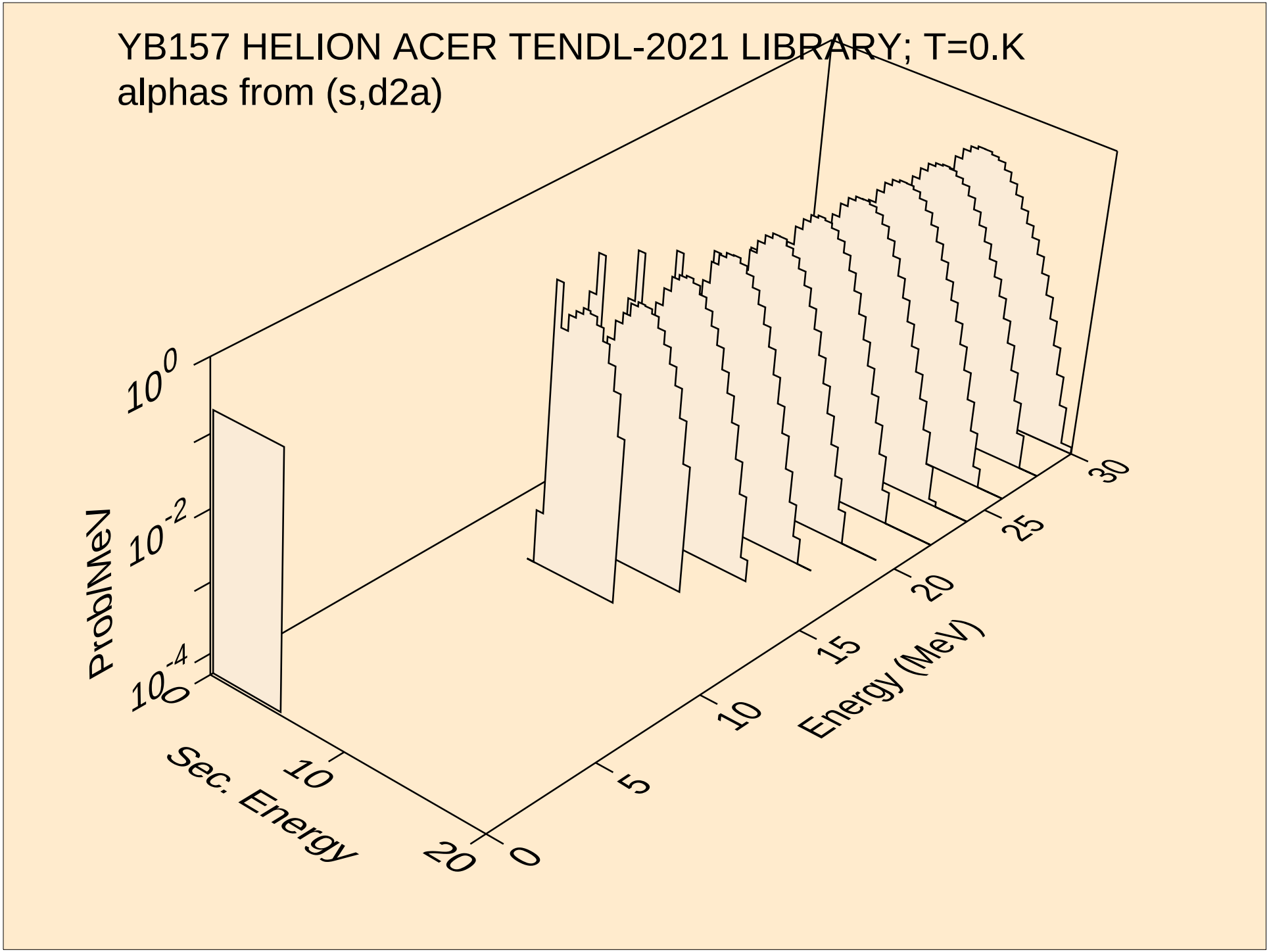

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
alphas from (s,a)
Prob/MeV
10^{0}
10^{-2}
10^{-4}
0
20
40
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)

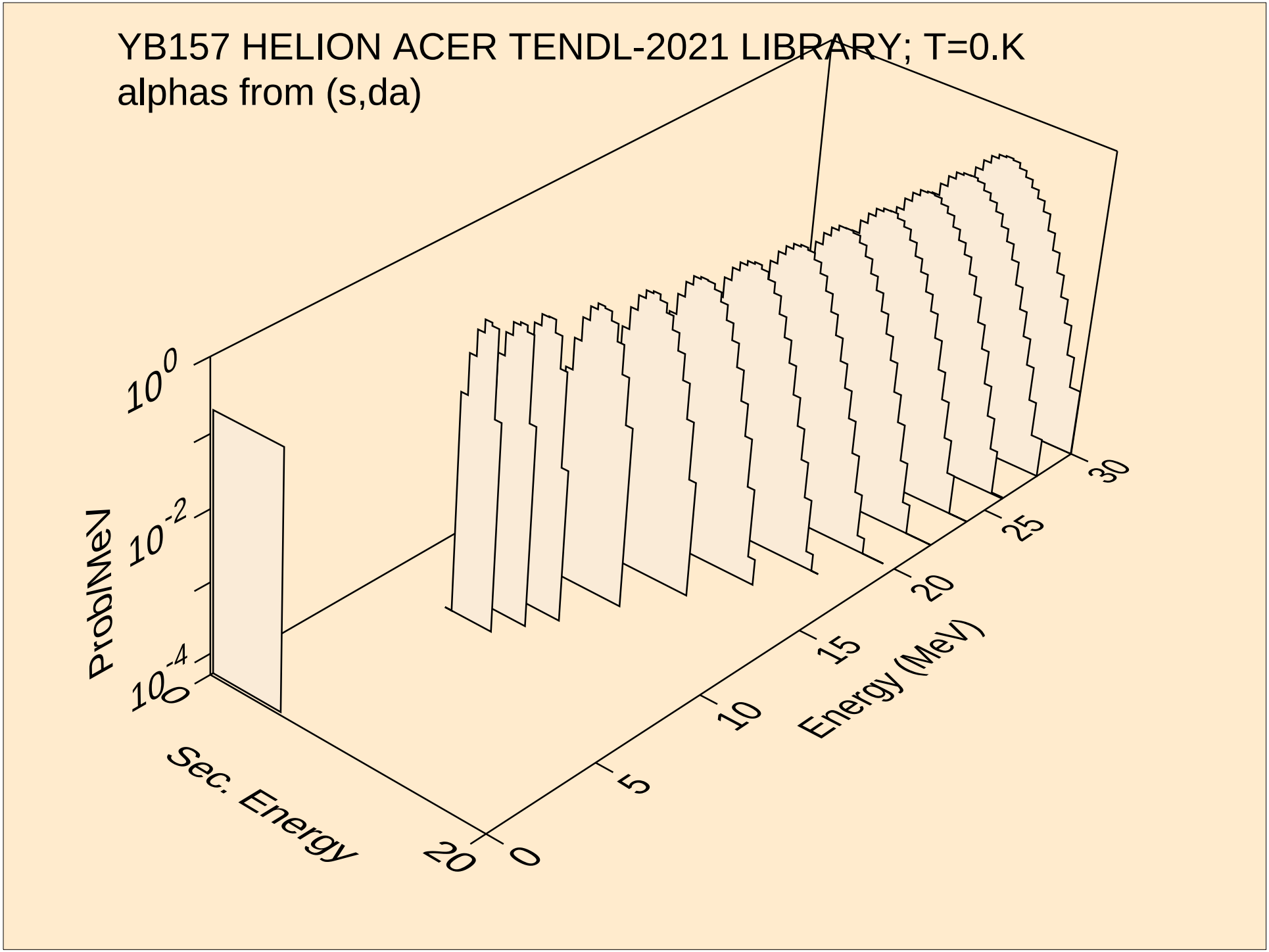

YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
alphas from (s,2a)
Prob/MeV
10^0
10^-2
10^-4
0
20
40
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)


YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
alphas from (s,3a)
Prob/MeV
10^0
10^-2
10^-4
0
20
40
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)


YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
alphas from (s,pa)
Prob/MeV
10^0
10^-2
10^-4
0
20
40
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)


YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
alphas from (s,t2a)
Prob/MeV
10^0
10^-2
0
Sec. Energy
10
20
0
5
10
15
20
25
30
Energy (MeV)


YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
alphas from (s,d2a)
Prob/MeV
10^0
10^-2
10^-4
0
10
20
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)


YB157 HELION ACER TENDL-2021 LIBRARY; T=0.K
alphas from (s,da)
Prob/MeV
10^0
10^-2
10^-4
Sec. Energy
0
20
Energy (MeV)
0
5
10
15
20
25
30