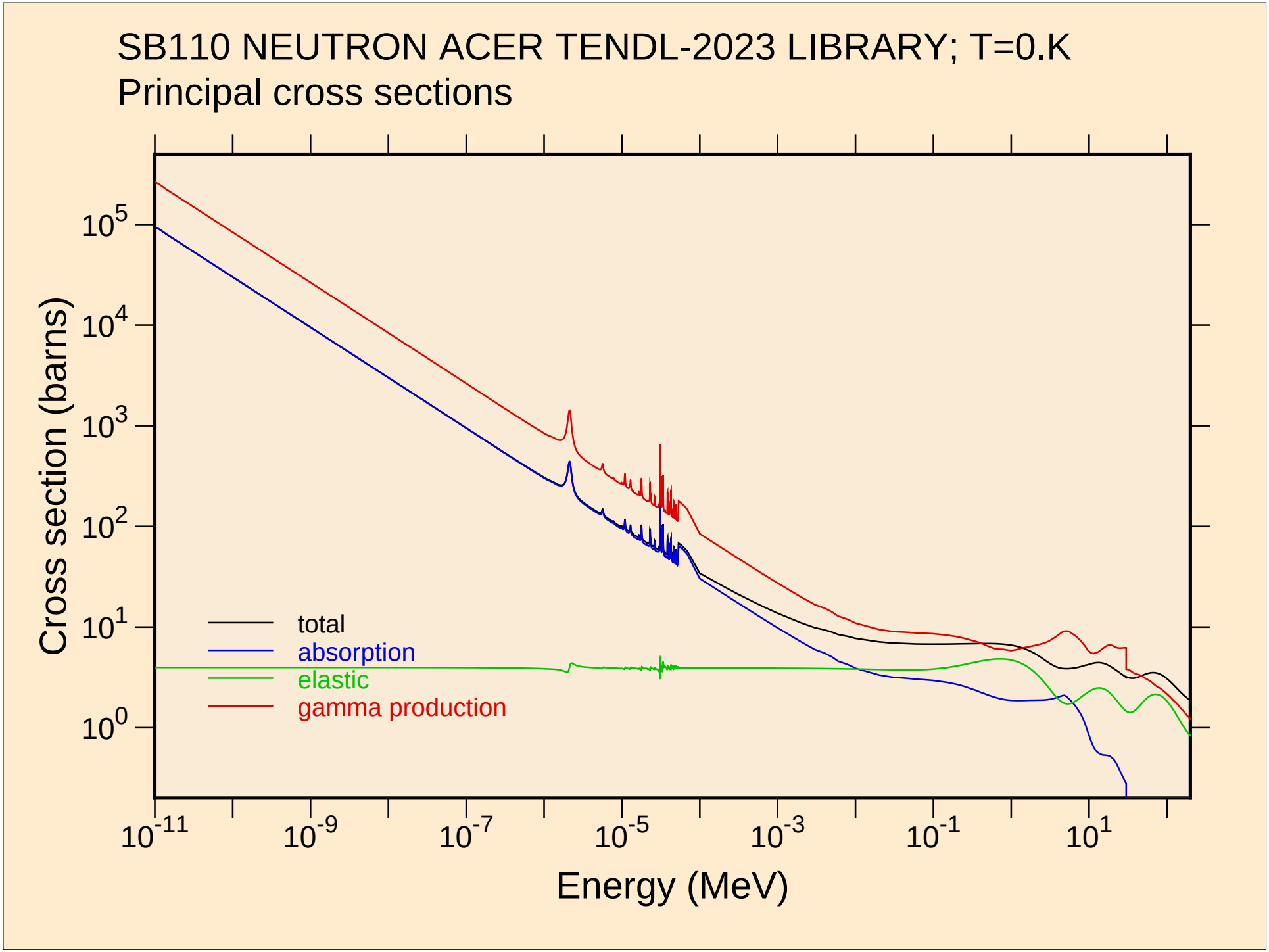
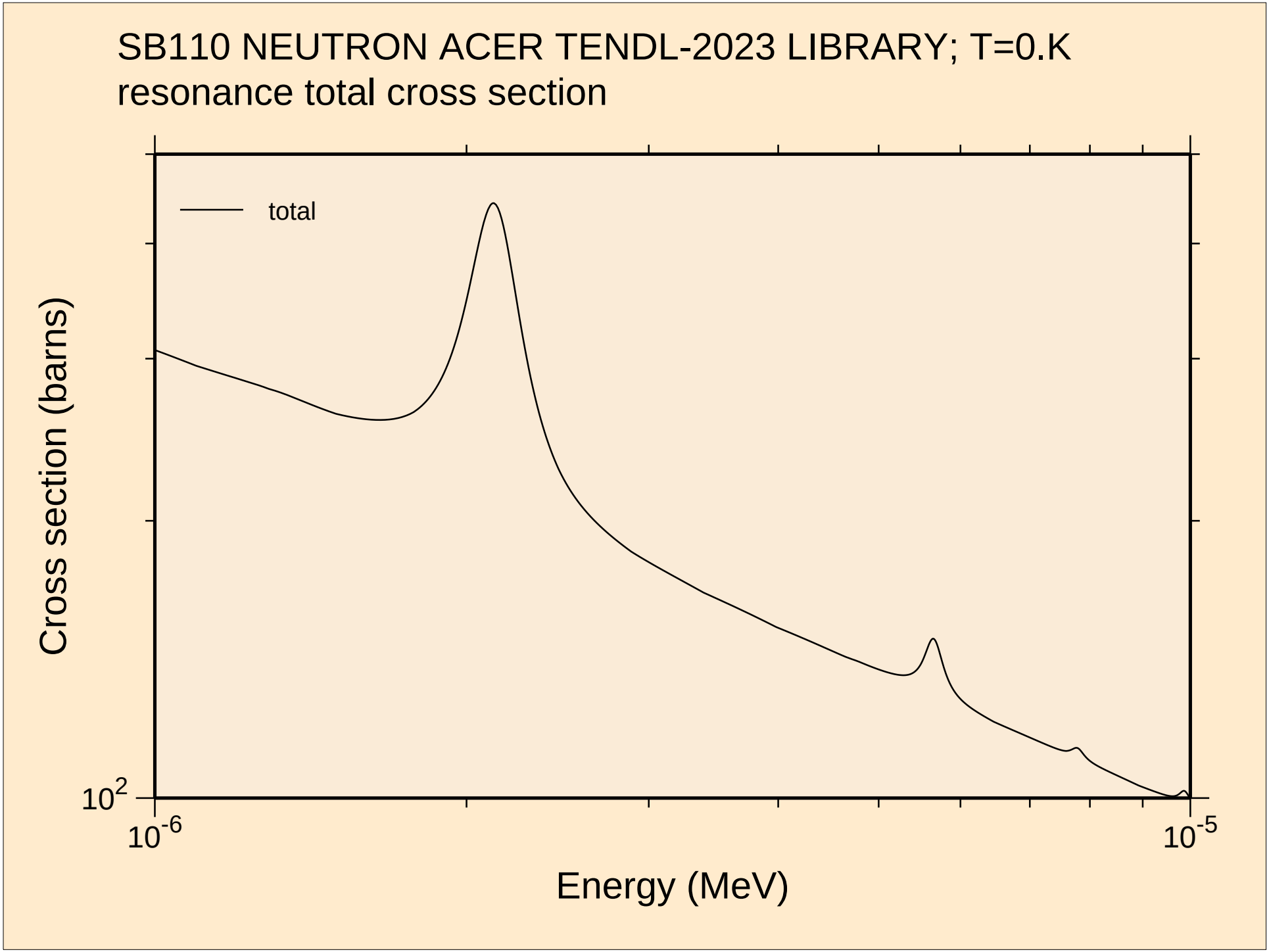
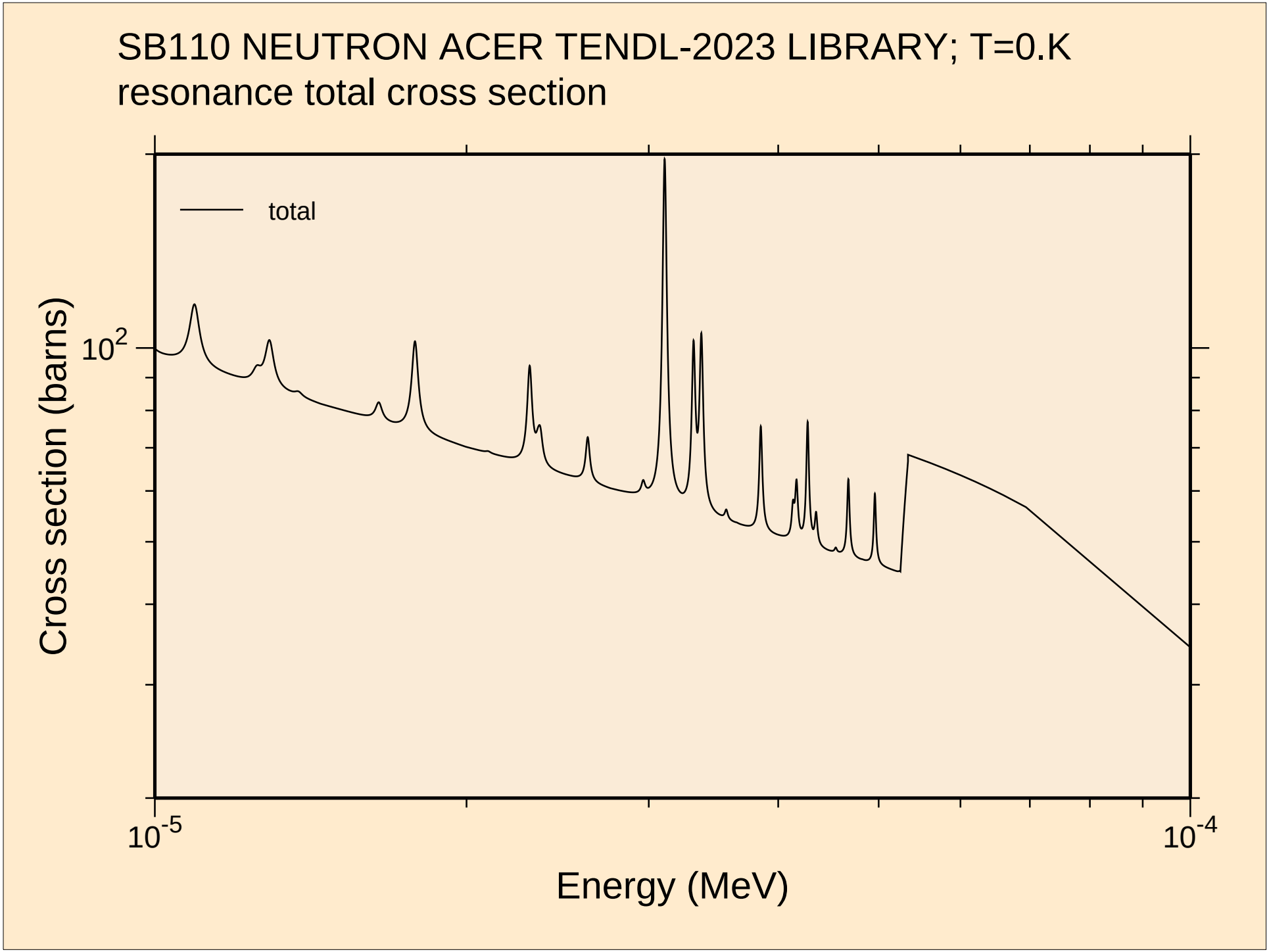
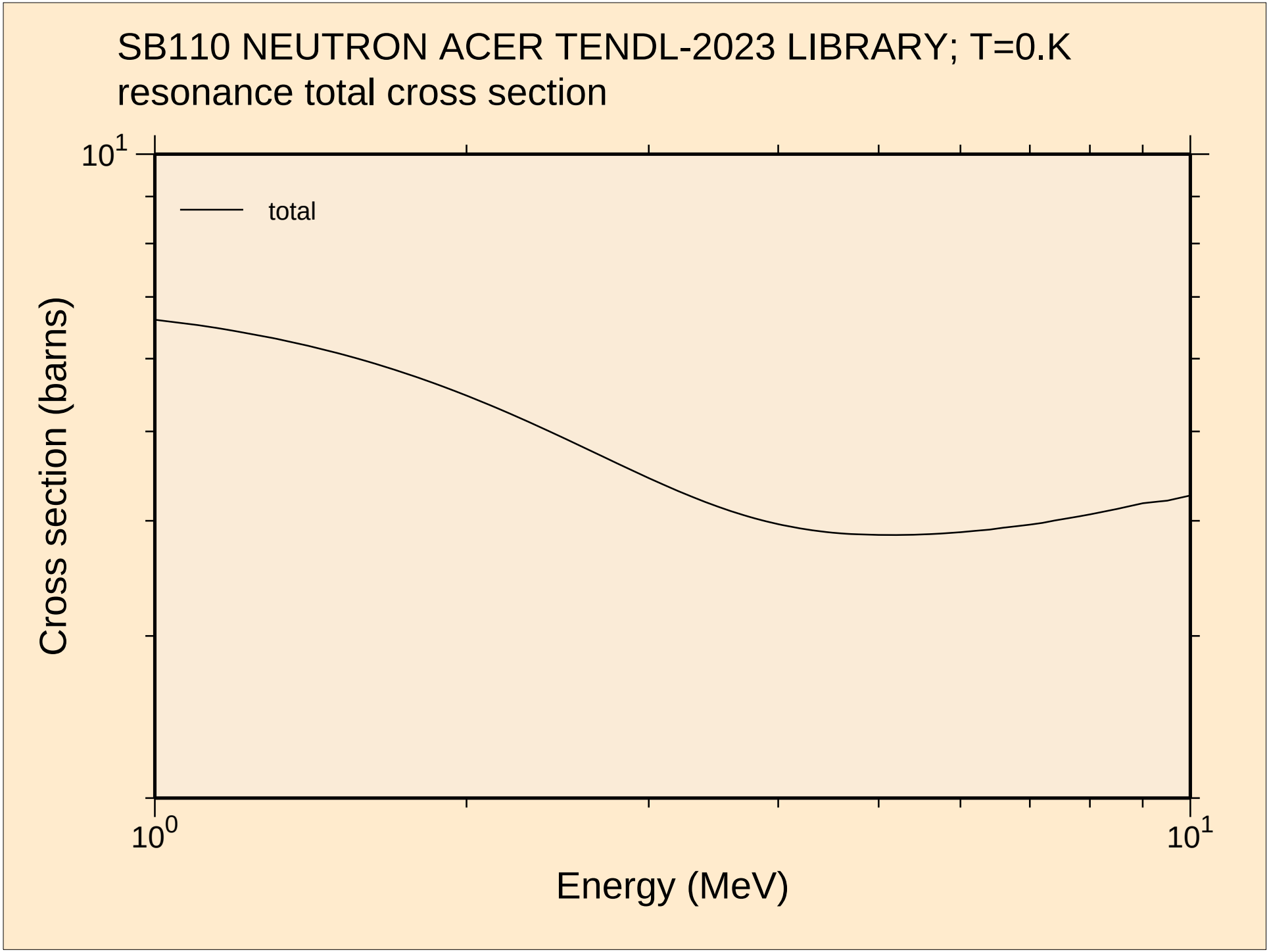
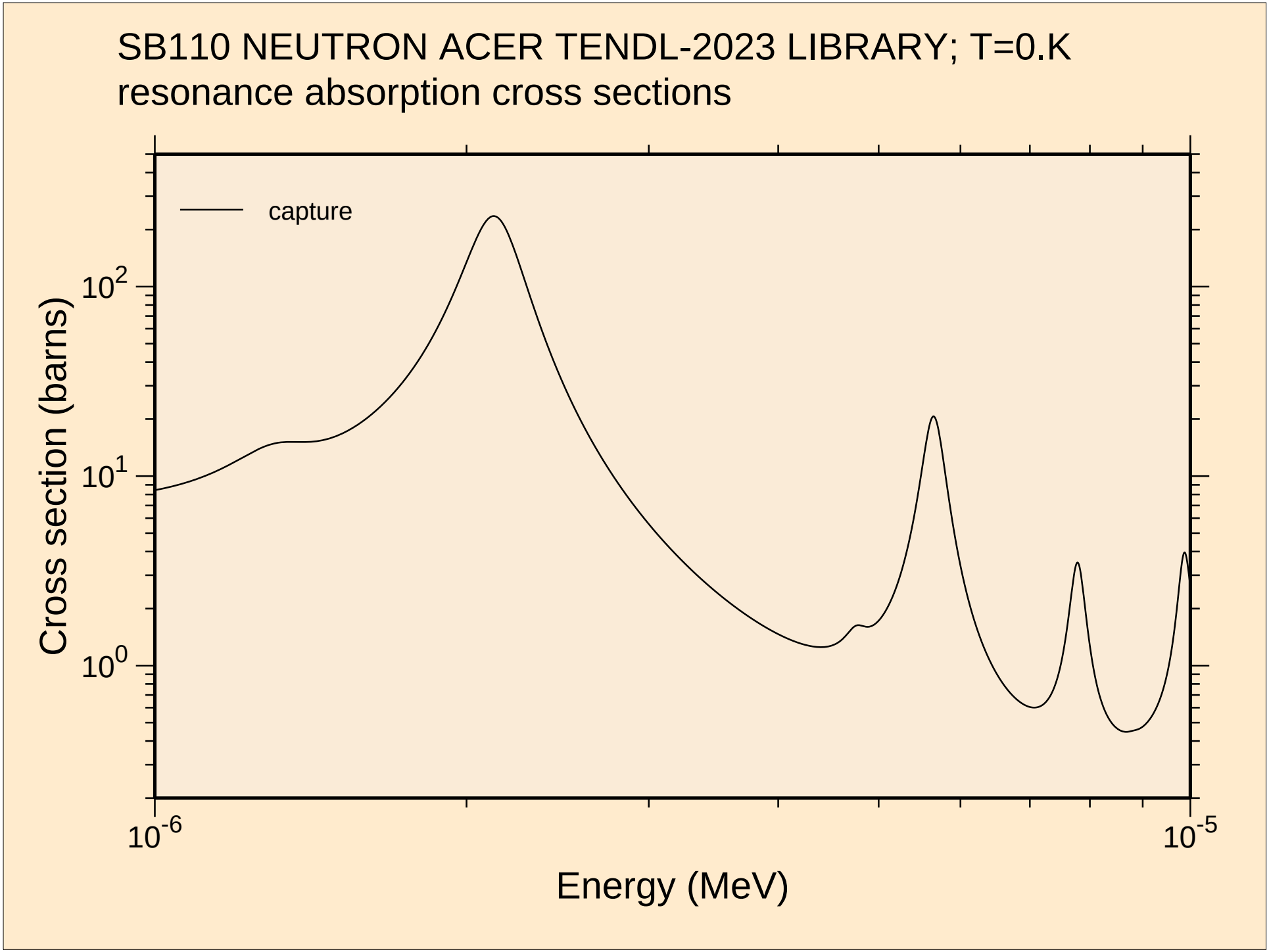
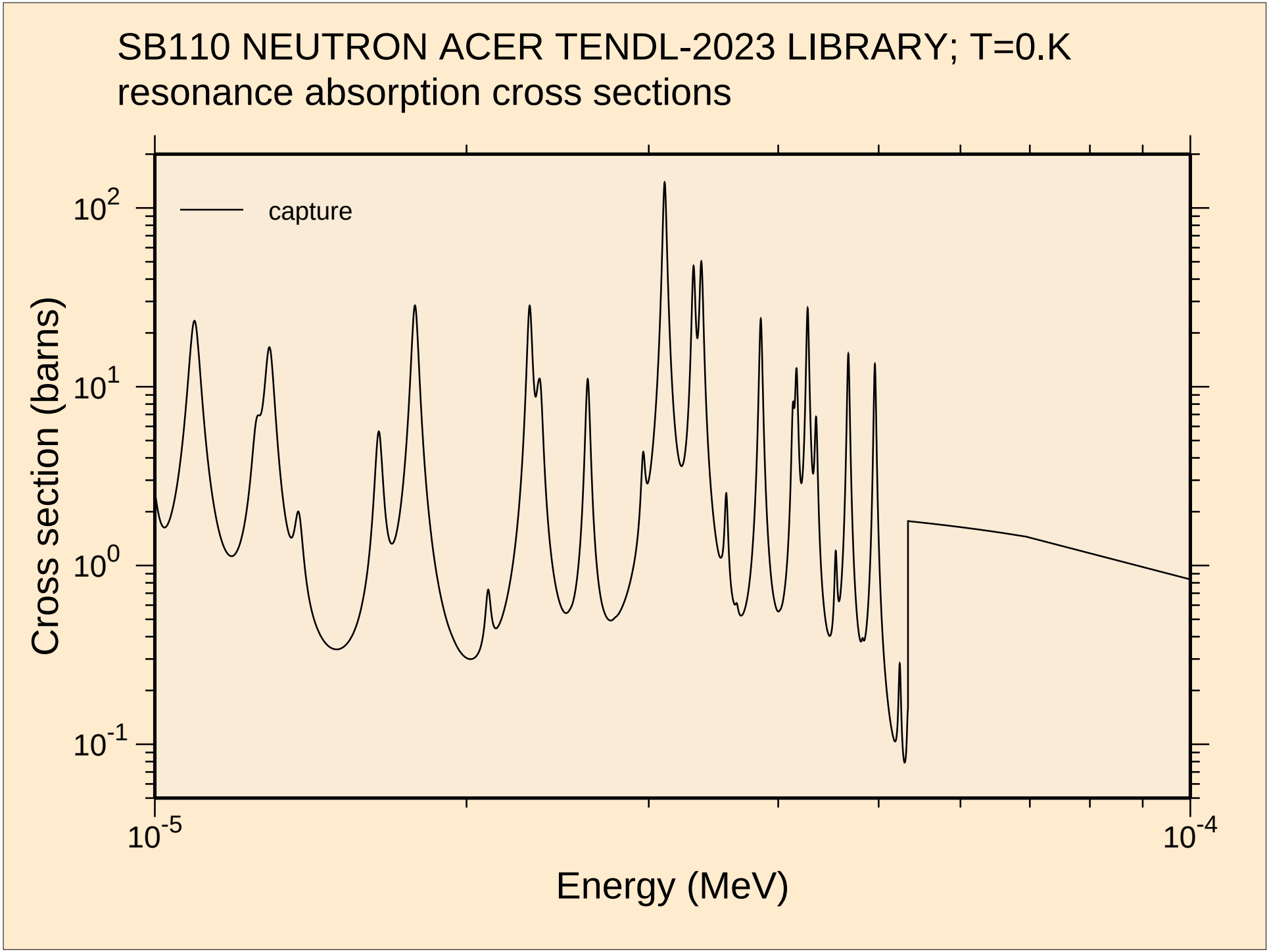

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Principal cross sections
Cross section (barns)
10^5
10^4
10^3
10^2
10^1
10^0
total
absorption
elastic
gamma production
10^{-11}
10^{-9}
10^{-7}
10^{-5}
10^{-3}
10^{-1}
10^1
Energy (MeV)

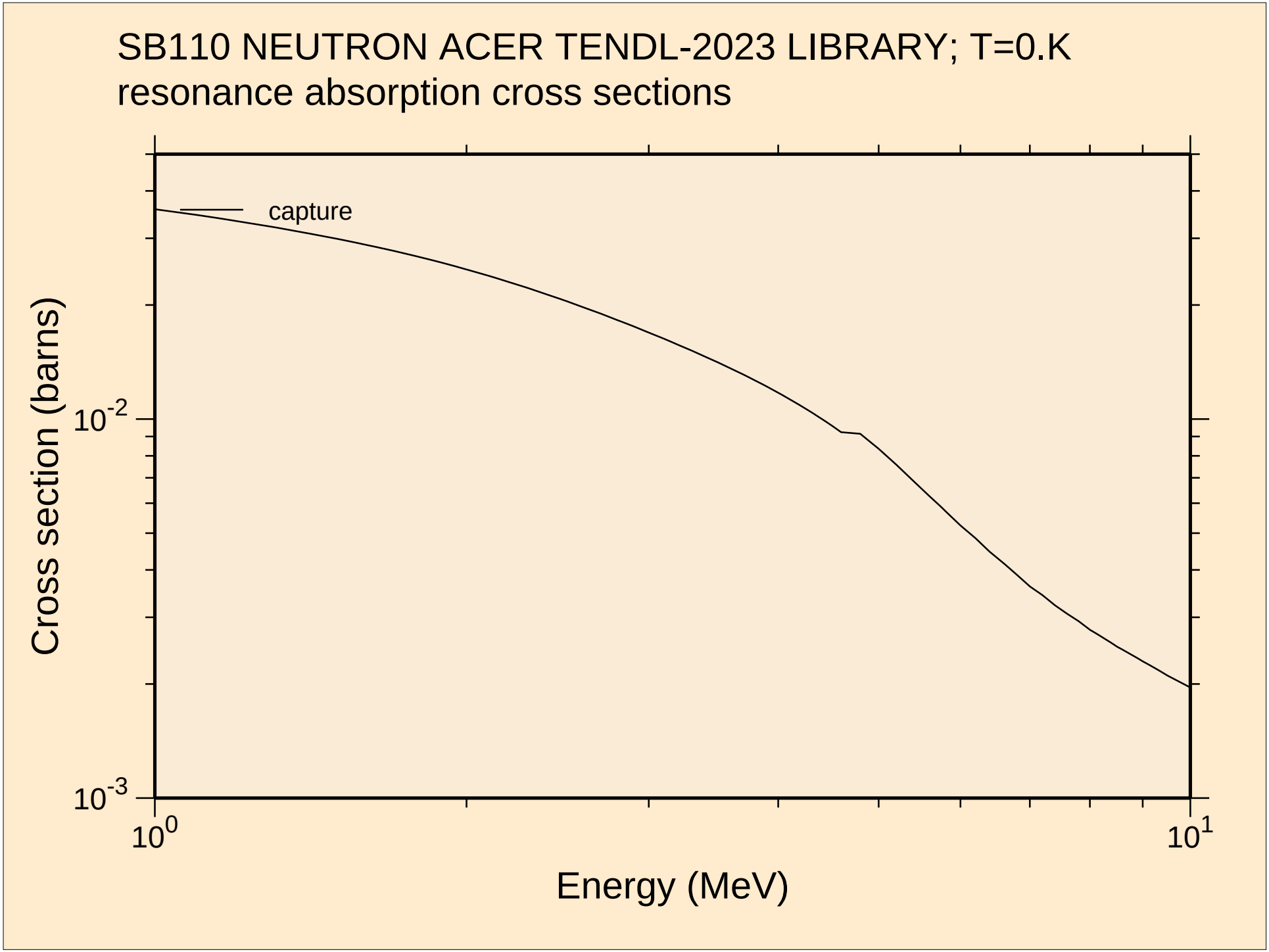

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
resonance total cross section
total
Cross section (barns)
10^2
10^{-6}
10^{-5}
Energy (MeV)

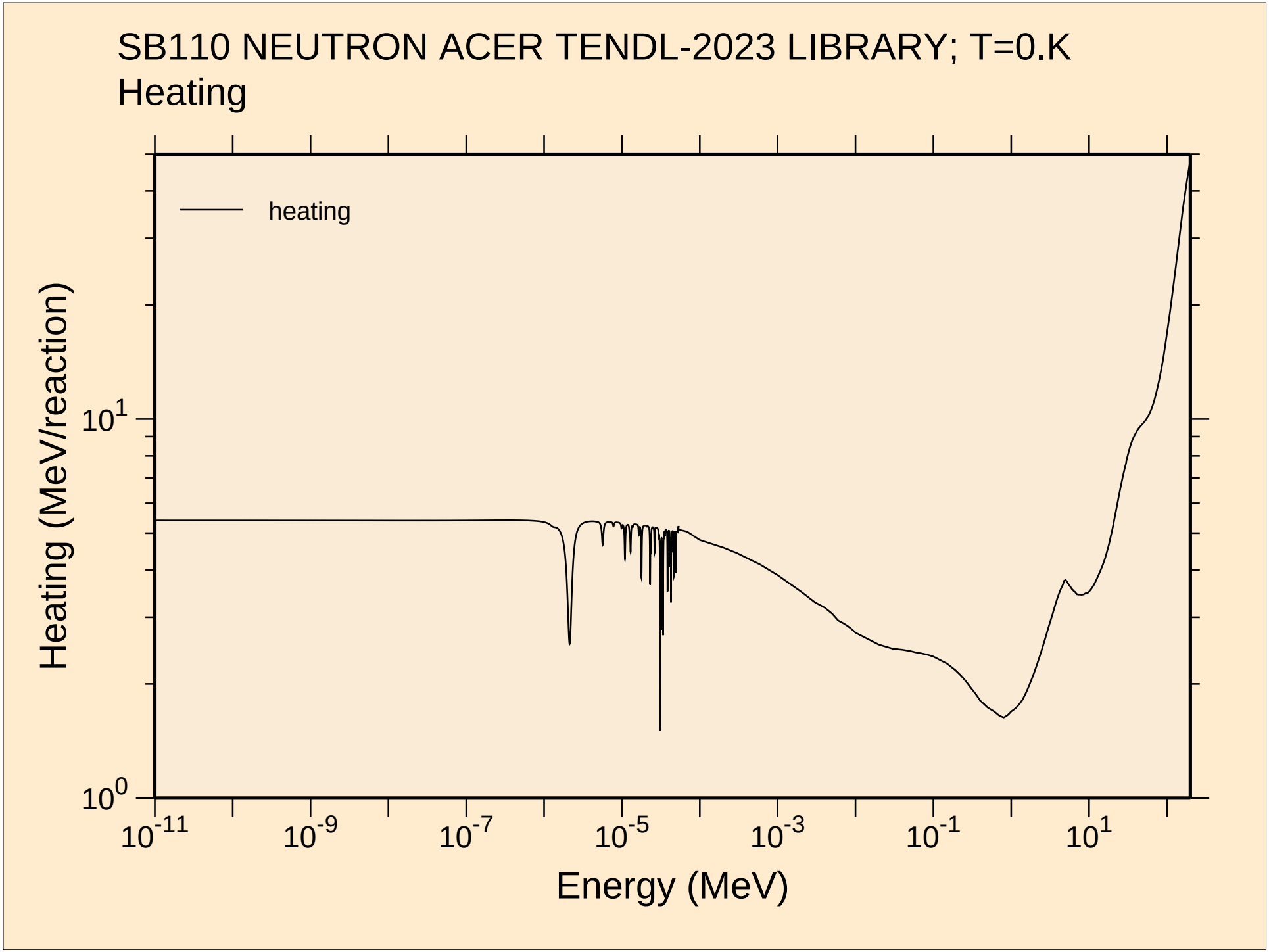

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
resonance total cross section
total
Cross section (barns)
10^2
10^-5
10^-4
Energy (MeV)

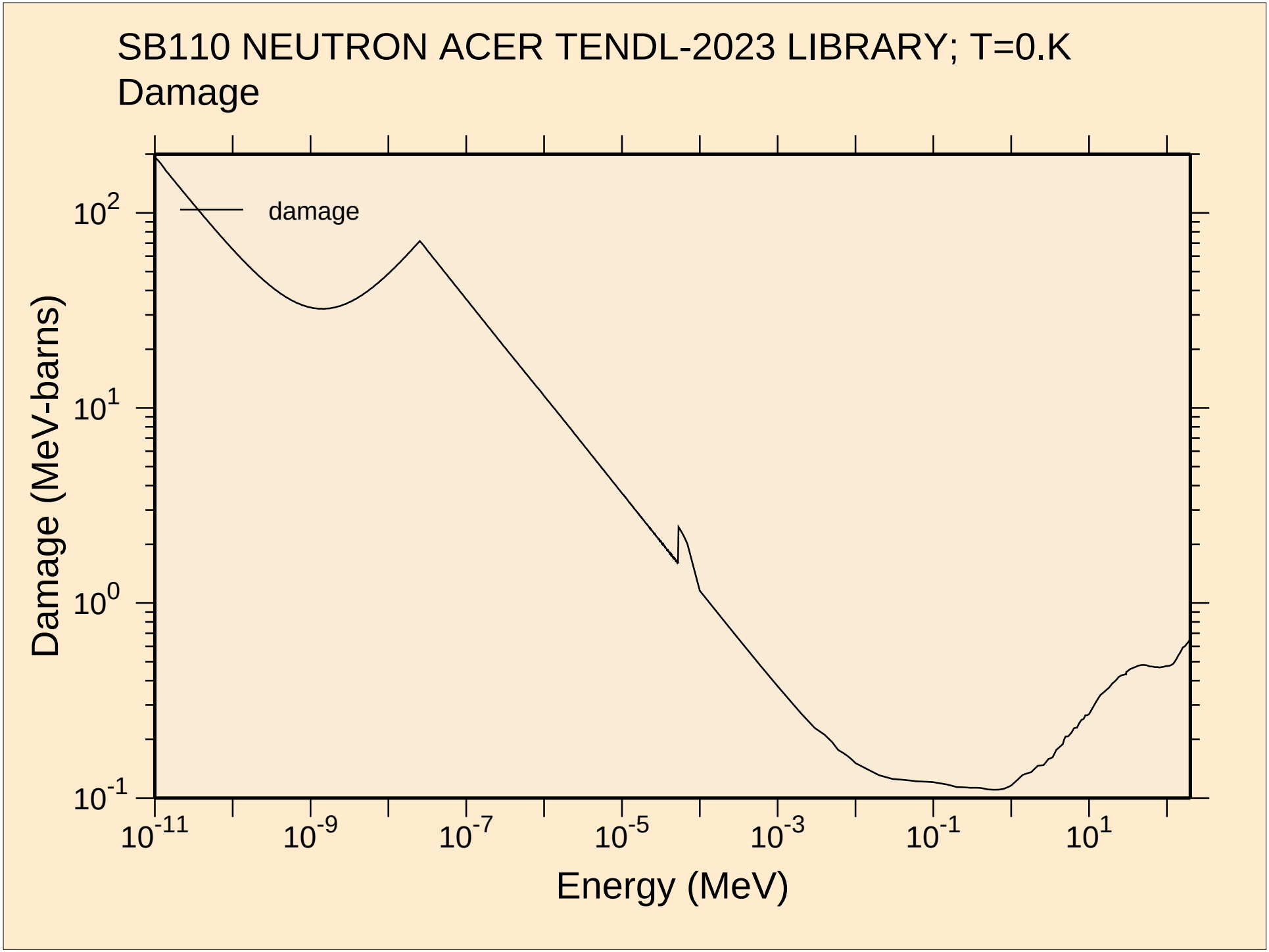

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
resonance total cross section
10^1
total
Cross section (barns)
10^0
10^1
Energy (MeV)

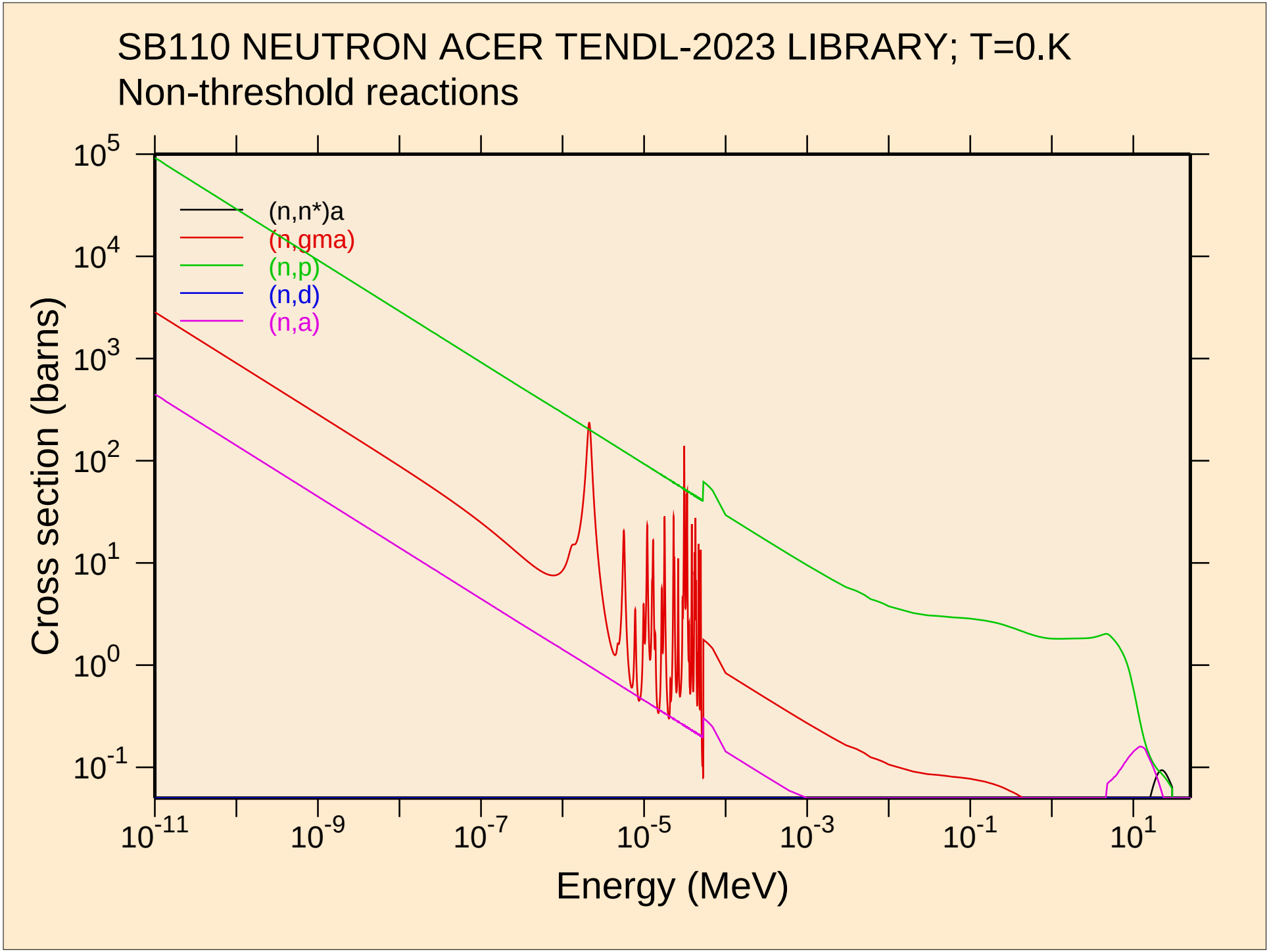

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
resonance absorption cross sections
capture
Cross section (barns)
10^2
10^1
10^0
10^-6
10^-5
Energy (MeV)

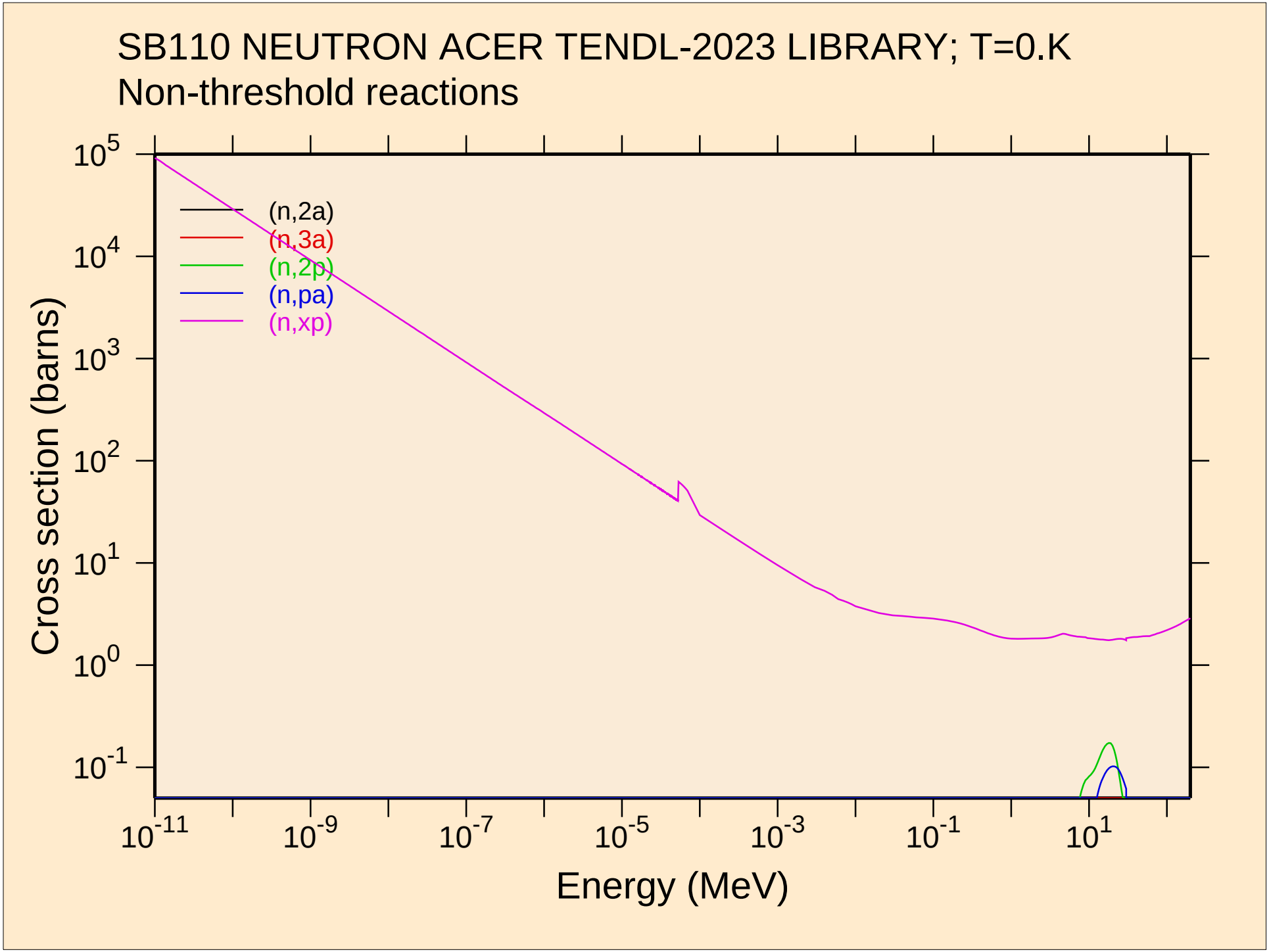

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
resonance absorption cross sections
capture
Cross section (barns)
10^{2}
10^{1}
10^{0}
10^{-1}
10^{-5}
10^{-4}
Energy (MeV)

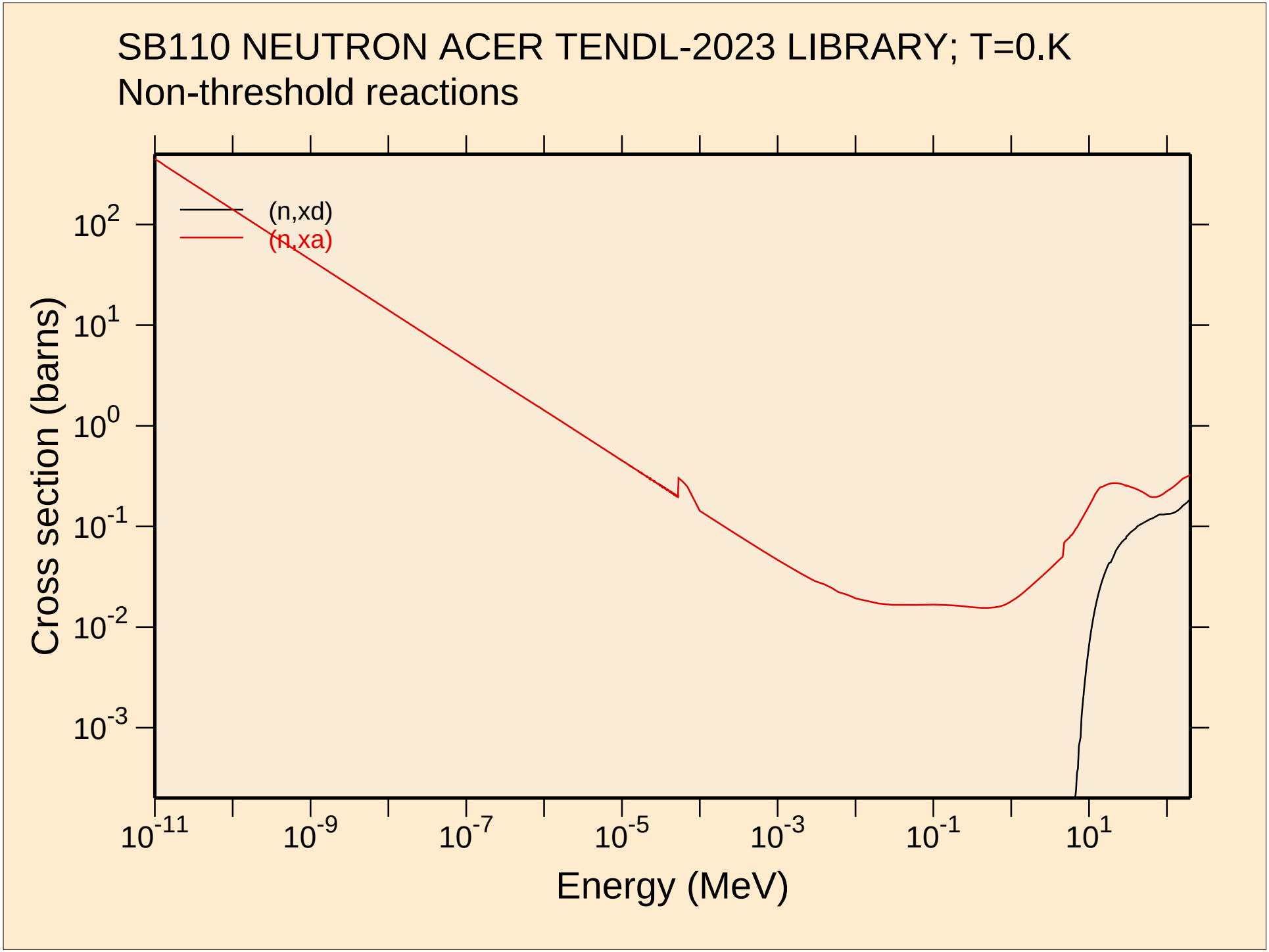

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
resonance absorption cross sections
capture
Cross section (barns)
10-2
10-3
100
101
Energy (MeV)

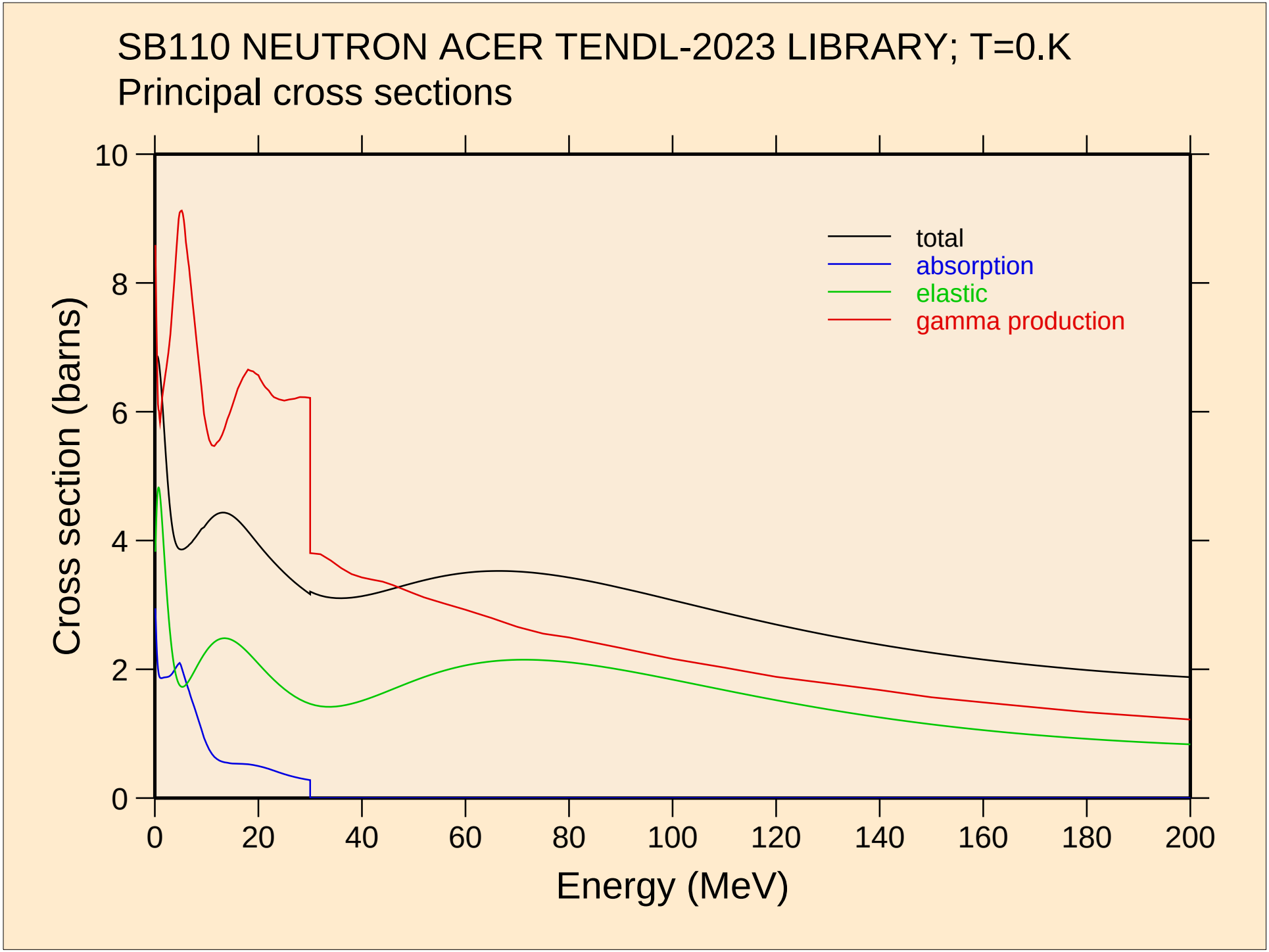

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Heating
heating
Heating (MeV/reaction)
10^1
10^0
10^-11
10^-9
10^-7
10^-5
10^-3
10^-1
10^1
Energy (MeV)

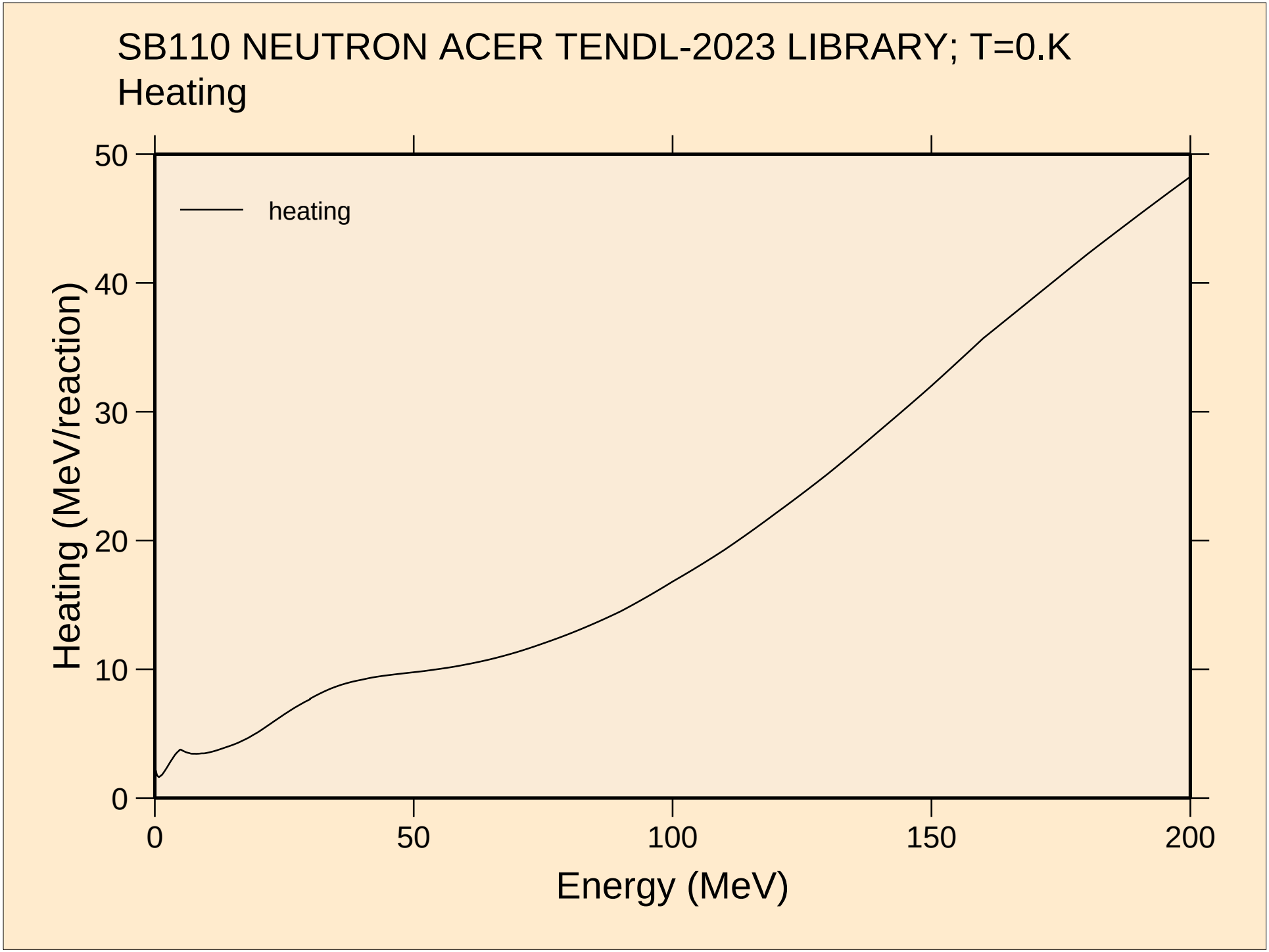

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Damage
damage
Damage (MeV-barns)
10^{2}
10^{1}
10^{0}
10^{-1}
10^{-11}
10^{-9}
10^{-7}
10^{-5}
10^{-3}
10^{-1}
10^{1}
Energy (MeV)

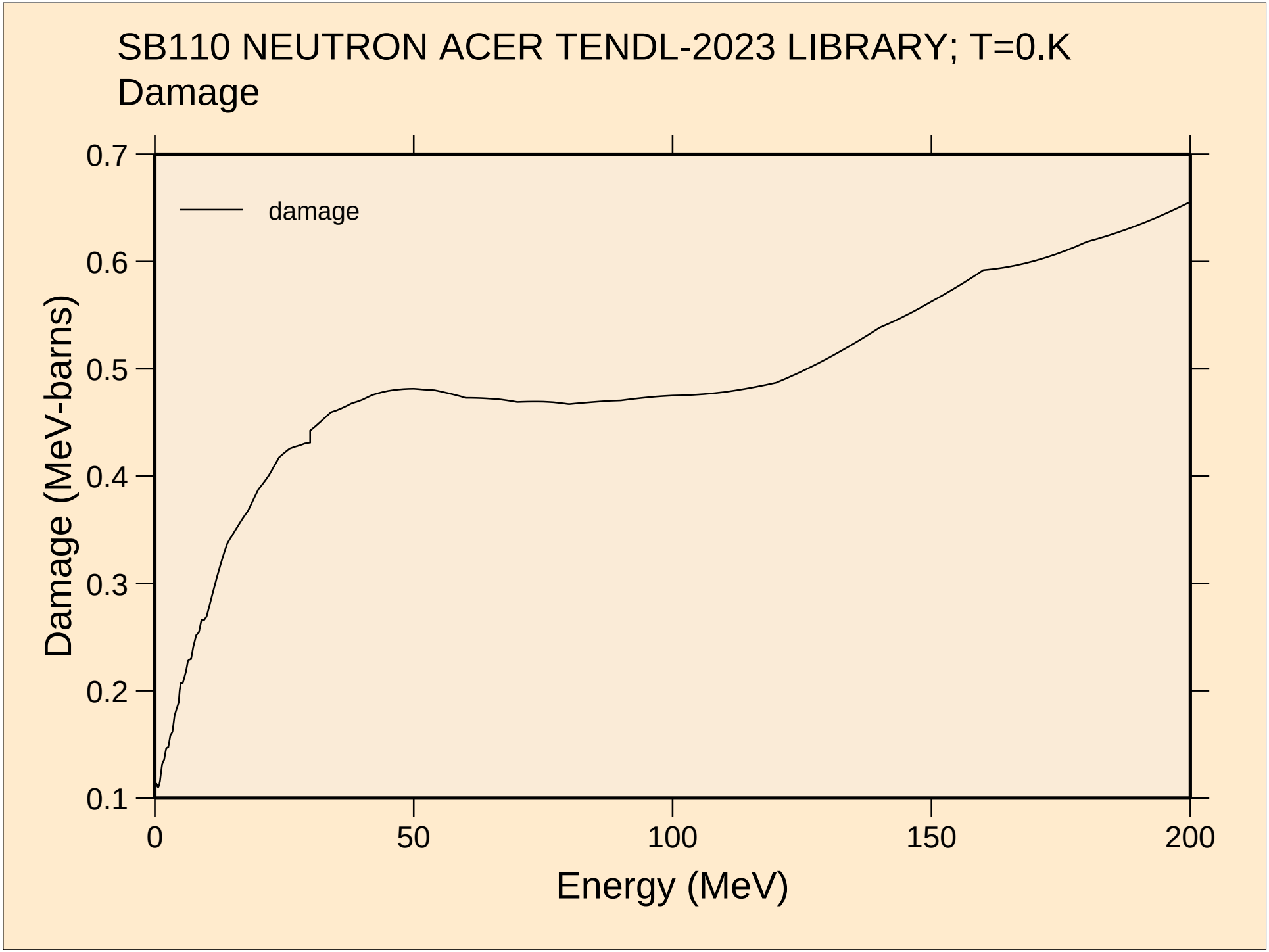

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Non-threshold reactions
(n,n*)a
(n,gma)
(n,p)
(n,d)
(n,a)
Cross section (barns)
Energy (MeV)
10^5
10^4
10^3
10^2
10^1
10^0
10^-1
10^-11
10^-9
10^-7
10^-5
10^-3
10^-1
10^1

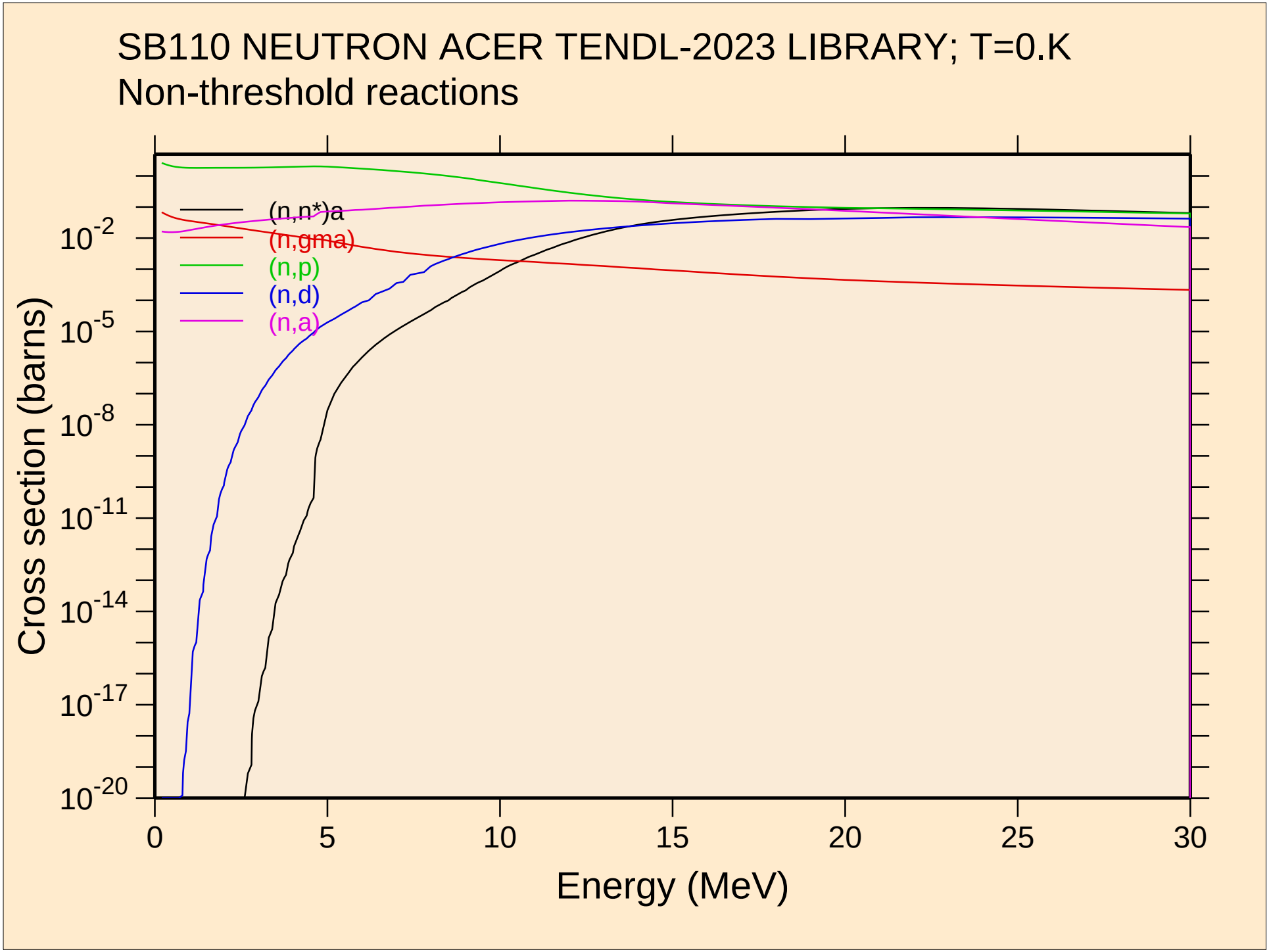

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Non-threshold reactions
(n,2a)
(n,3a)
(n,2p)
(n,pa)
(n,xp)
Cross section (barns)
Energy (MeV)
10^5
10^4
10^3
10^2
10^1
10^0
10^-1
10^-11
10^-9
10^-7
10^-5
10^-3
10^-1
10^1

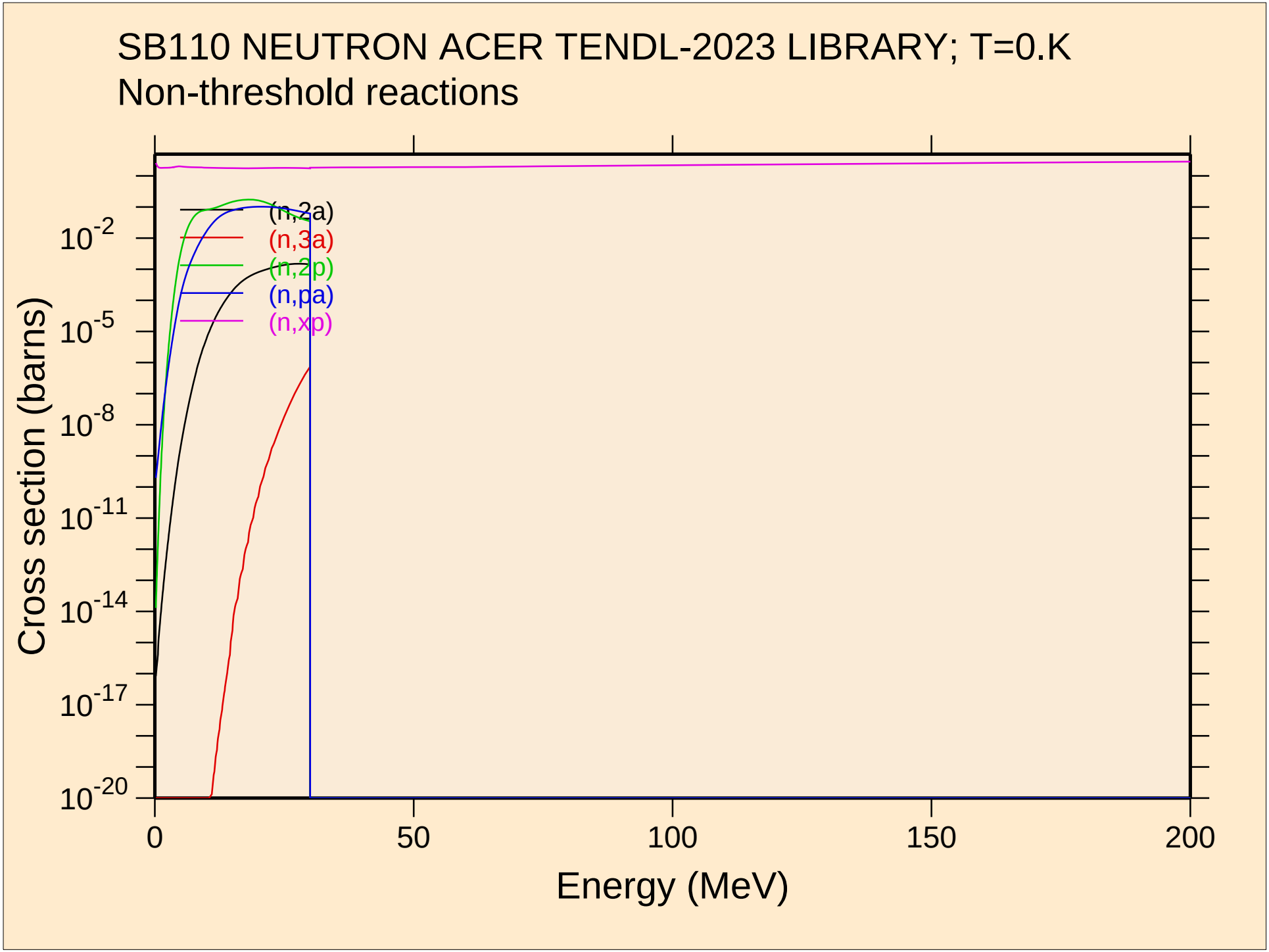

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Non-threshold reactions
(n,xd)
(n,xa)
Cross section (barns)
10^2
10^1
10^0
10^-1
10^-2
10^-3
10^-11
10^-9
10^-7
10^-5
10^-3
10^-1
10^1
Energy (MeV)

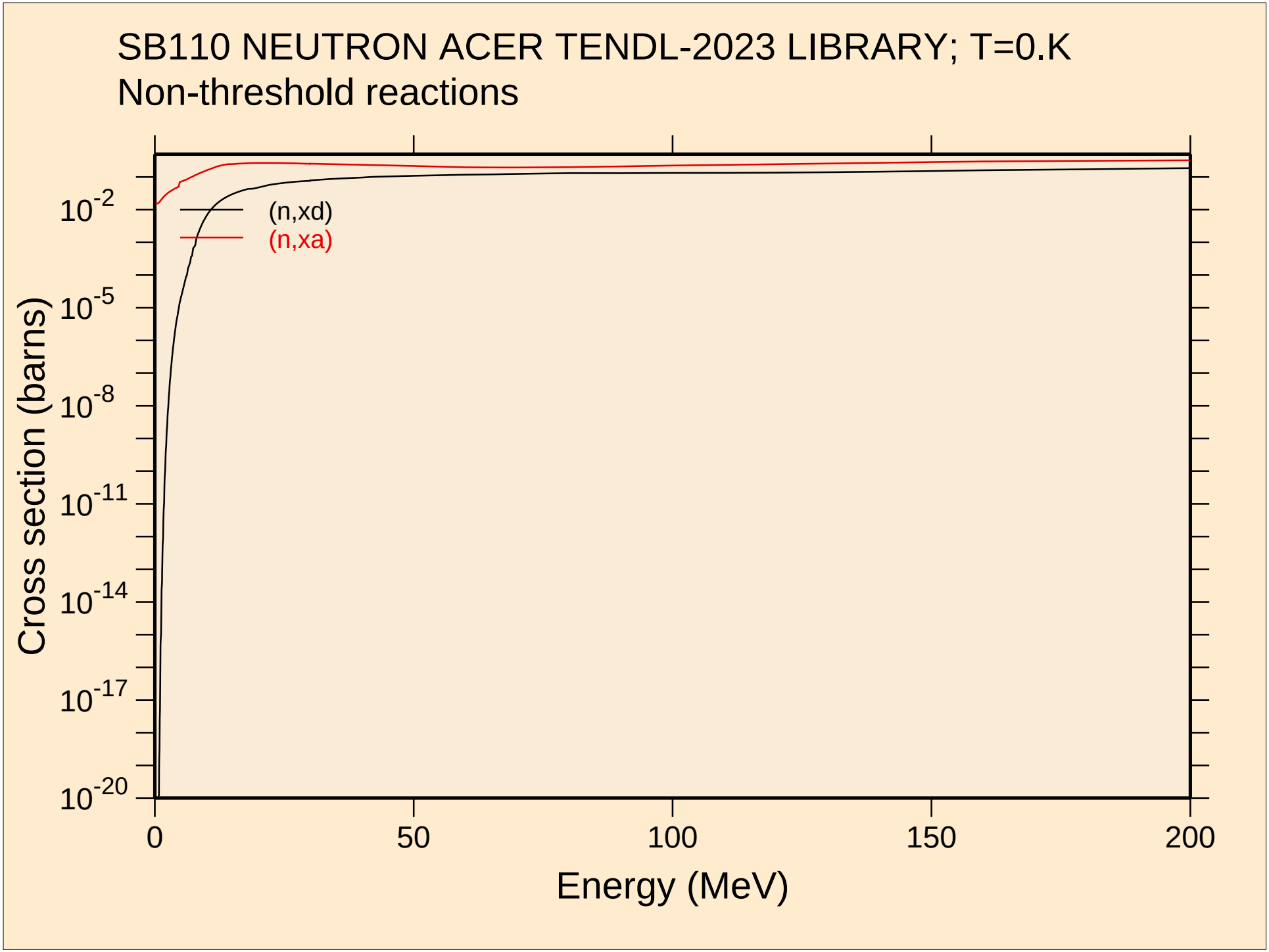

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Principal cross sections
Cross section (barns)
Energy (MeV)
total
absorption
elastic
gamma production
0
2
4
6
8
10
0
20
40
60
80
100
120
140
160
180
200

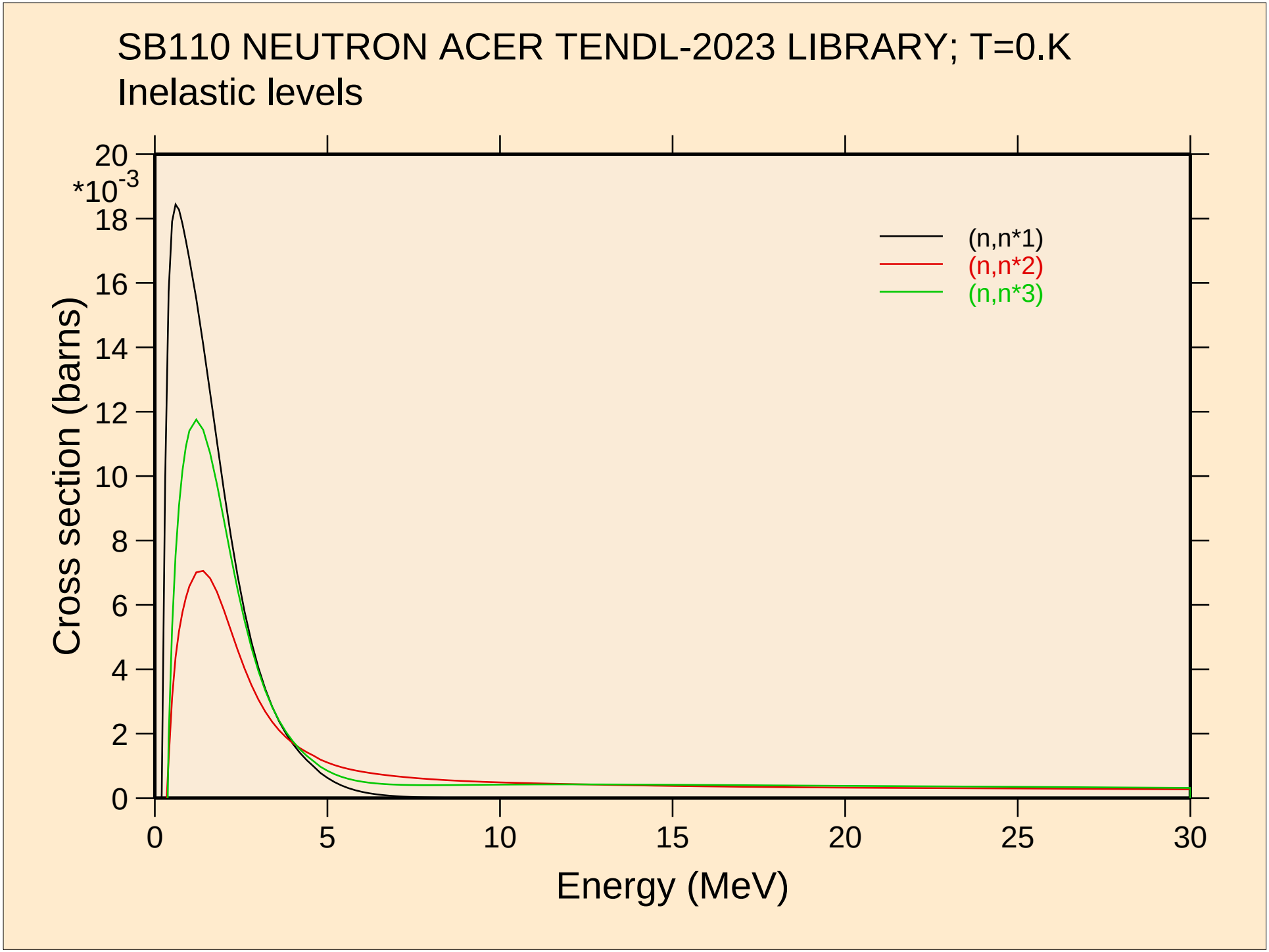

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
0
10
20
30
40
50
0
50
100
150
200

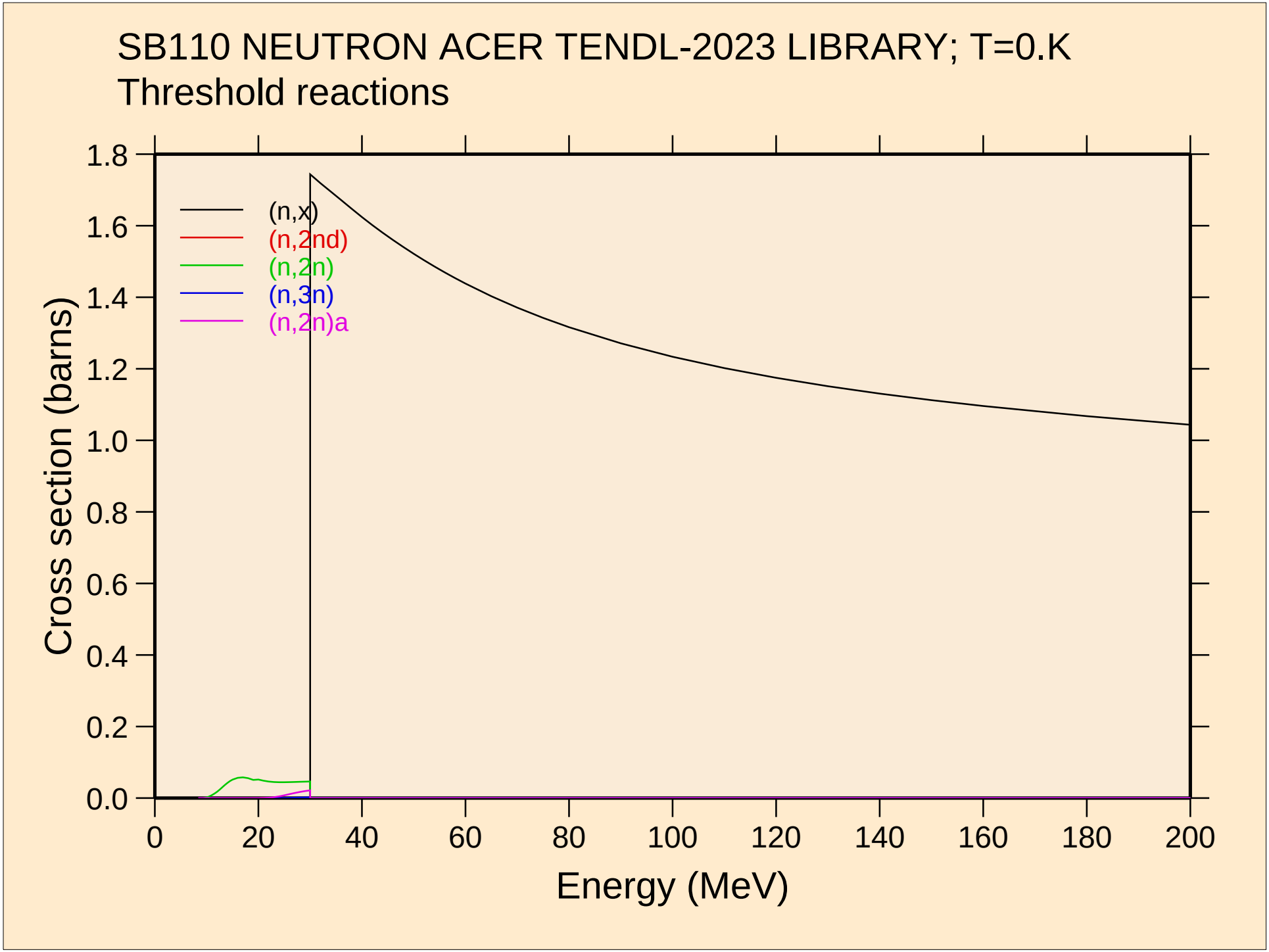

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Damage
damage
Damage (MeV-barns)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
50
100
150
200
Energy (MeV)

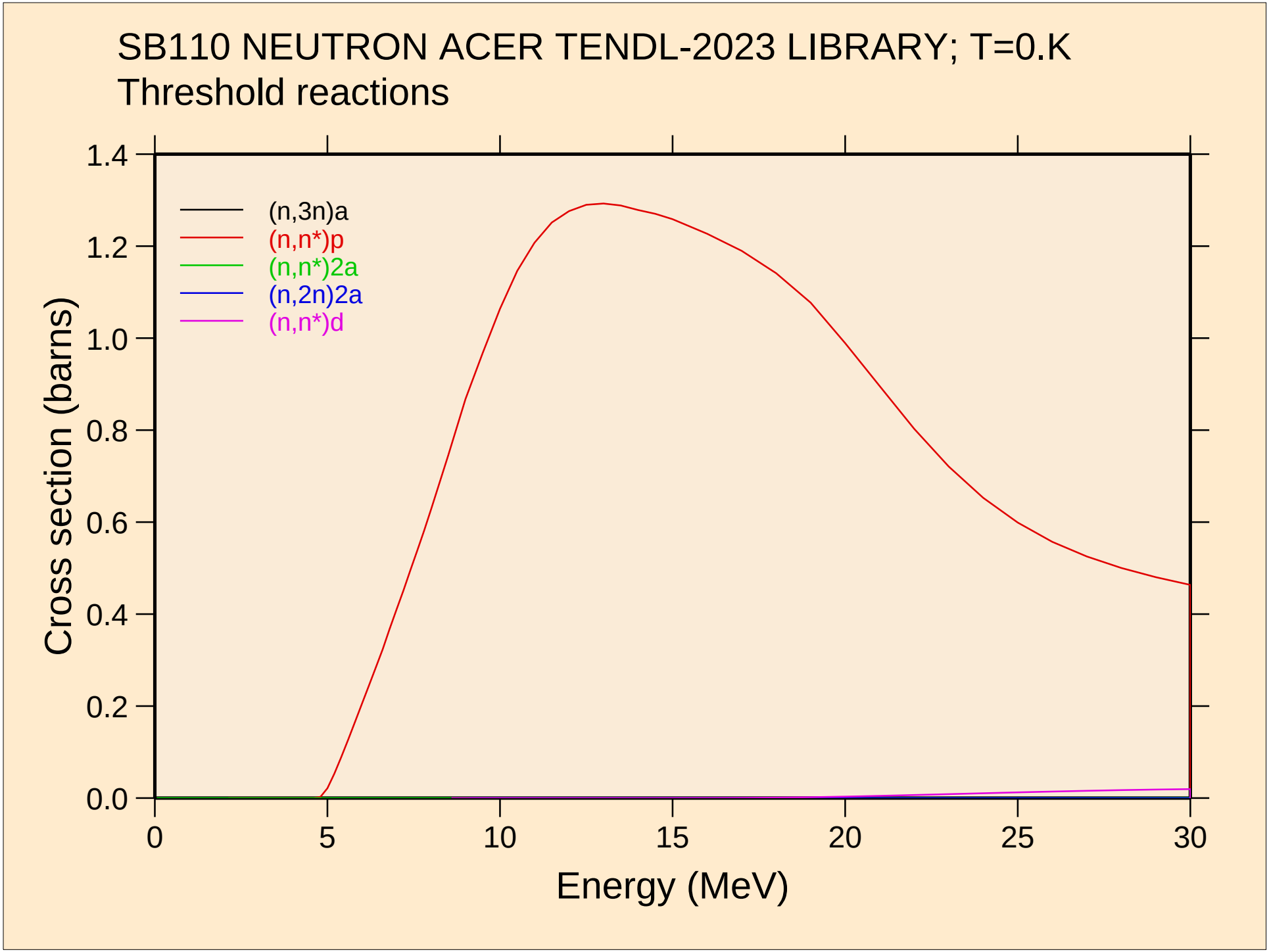

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Non-threshold reactions
(n,n*)a
(n,gma)
(n,p)
(n,d)
(n,a)
Cross section (barns)
10-2
10-5
10-8
10-11
10-14
10-17
10-20
0
5
10
15
20
25
30
Energy (MeV)

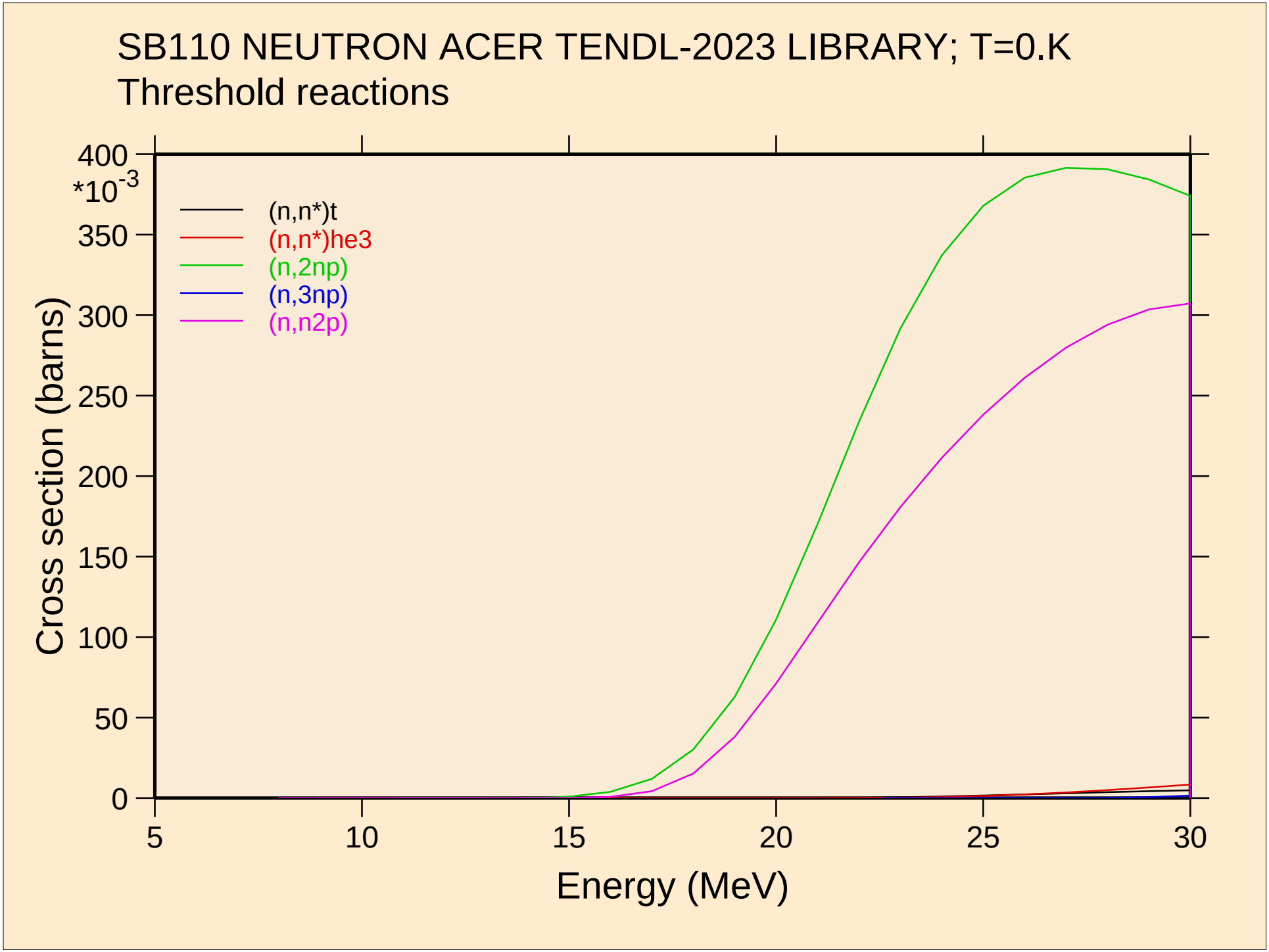

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Non-threshold reactions
(n,2a)
(n,3a)
(n,2p)
(n,pa)
(n,xp)
Cross section (barns)
10-2
10-5
10-8
10-11
10-14
10-17
10-20
0
50
100
150
200
Energy (MeV)

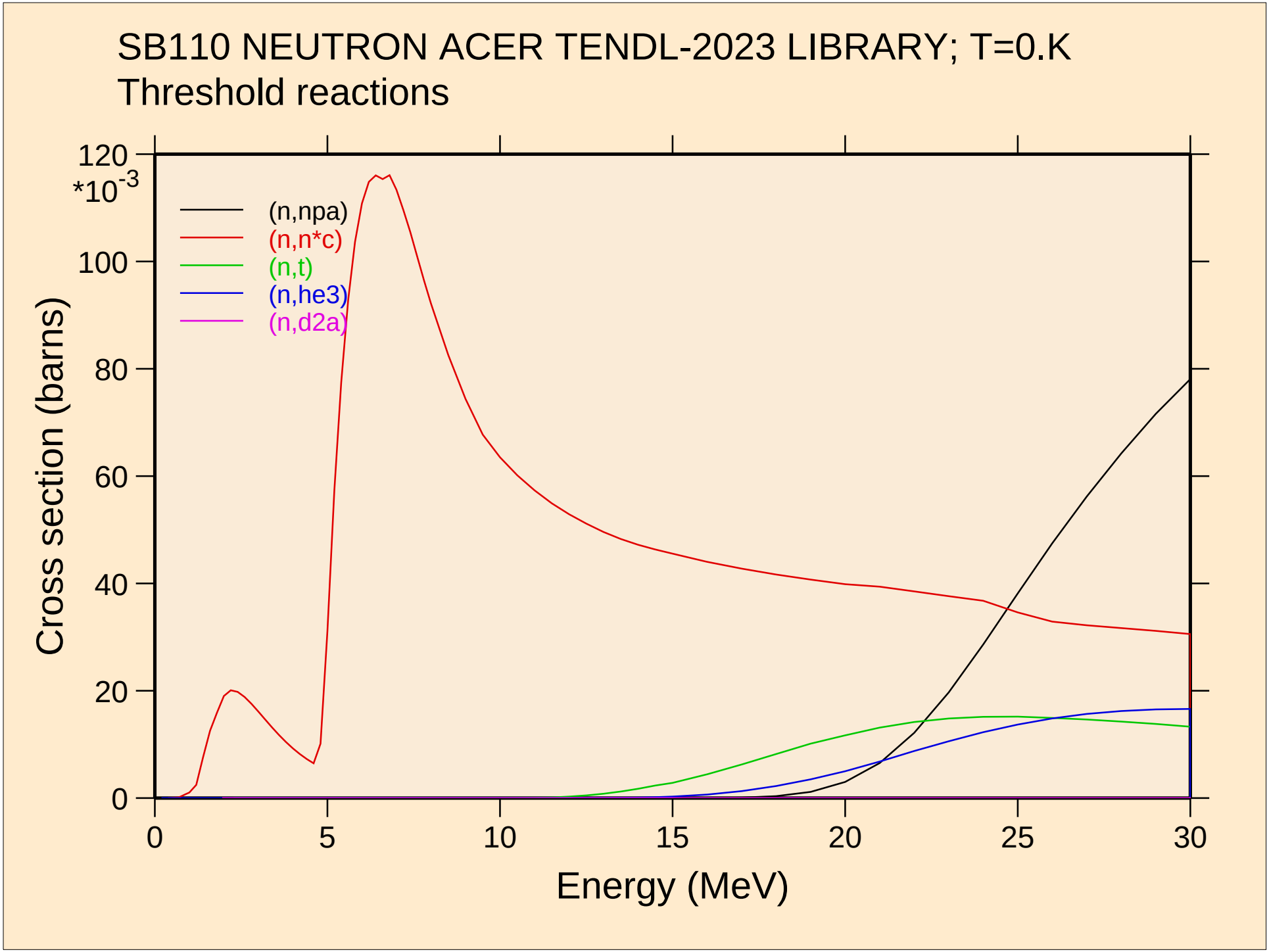

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Non-threshold reactions
(n,xd)
(n,xa)
Cross section (barns)
10-2
10-5
10-8
10-11
10-14
10-17
10-20
0
50
100
150
200
Energy (MeV)

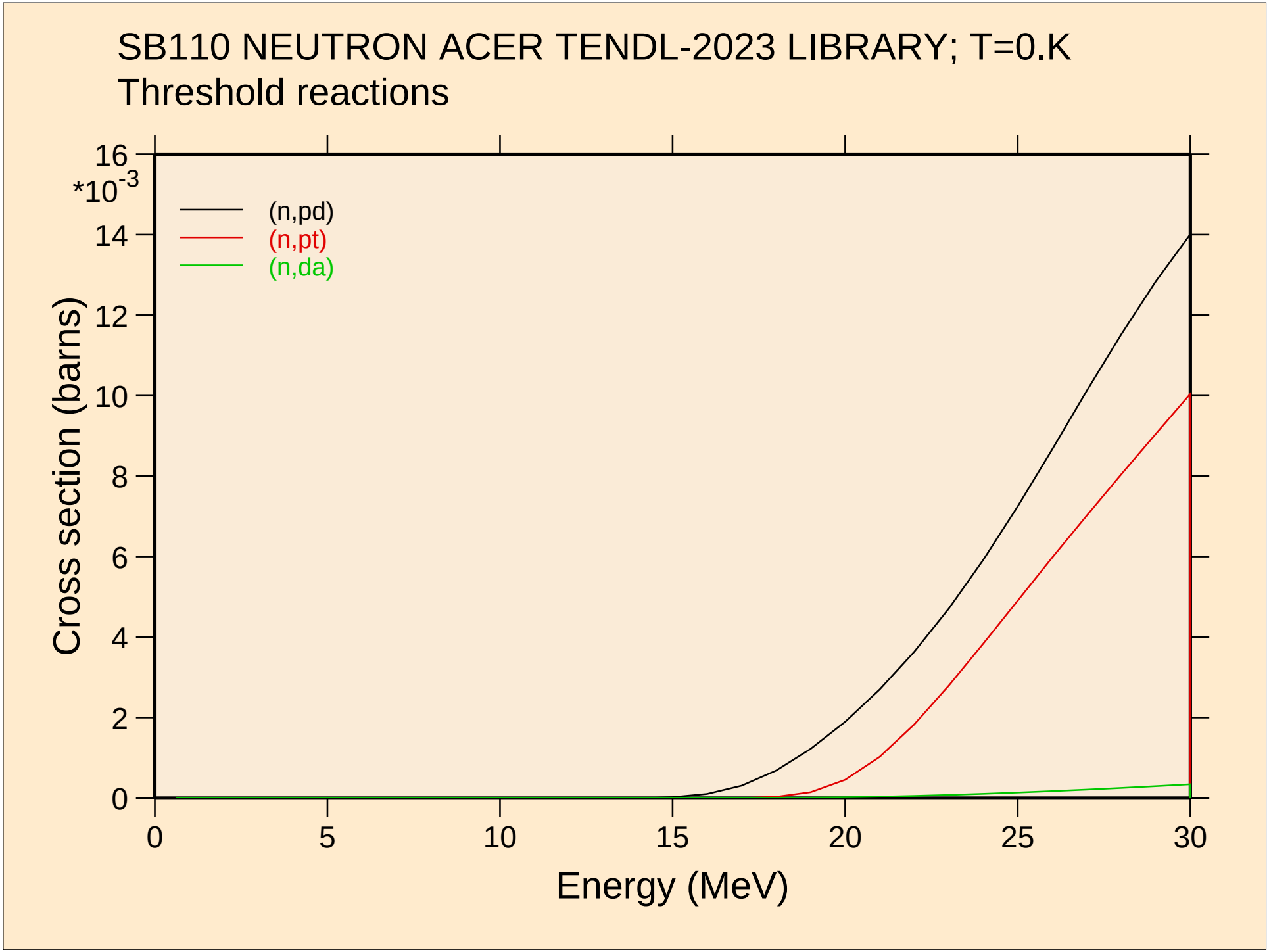

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Inelastic levels
Cross section (barns)
*10-3
20
18
16
14
12
10
8
6
4
2
0
0
5
10
15
20
25
30
Energy (MeV)
(n,n*1)
(n,n*2)
(n,n*3)

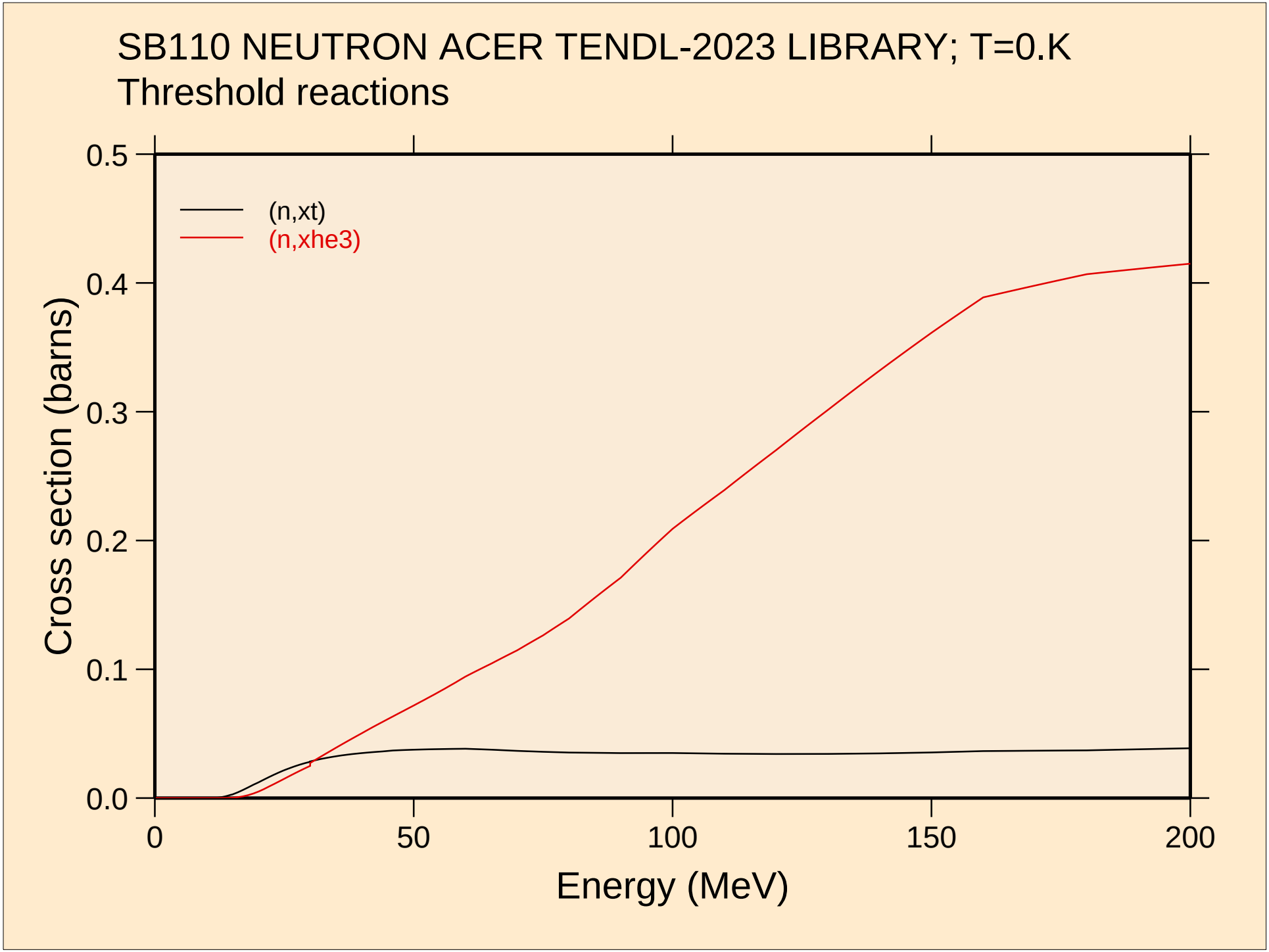

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions
(n,x)
(n,2nd)
(n,2n)
(n,3n)
(n,2n)a
Cross section (barns)
Energy (MeV)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
0
20
40
60
80
100
120
140
160
180
200

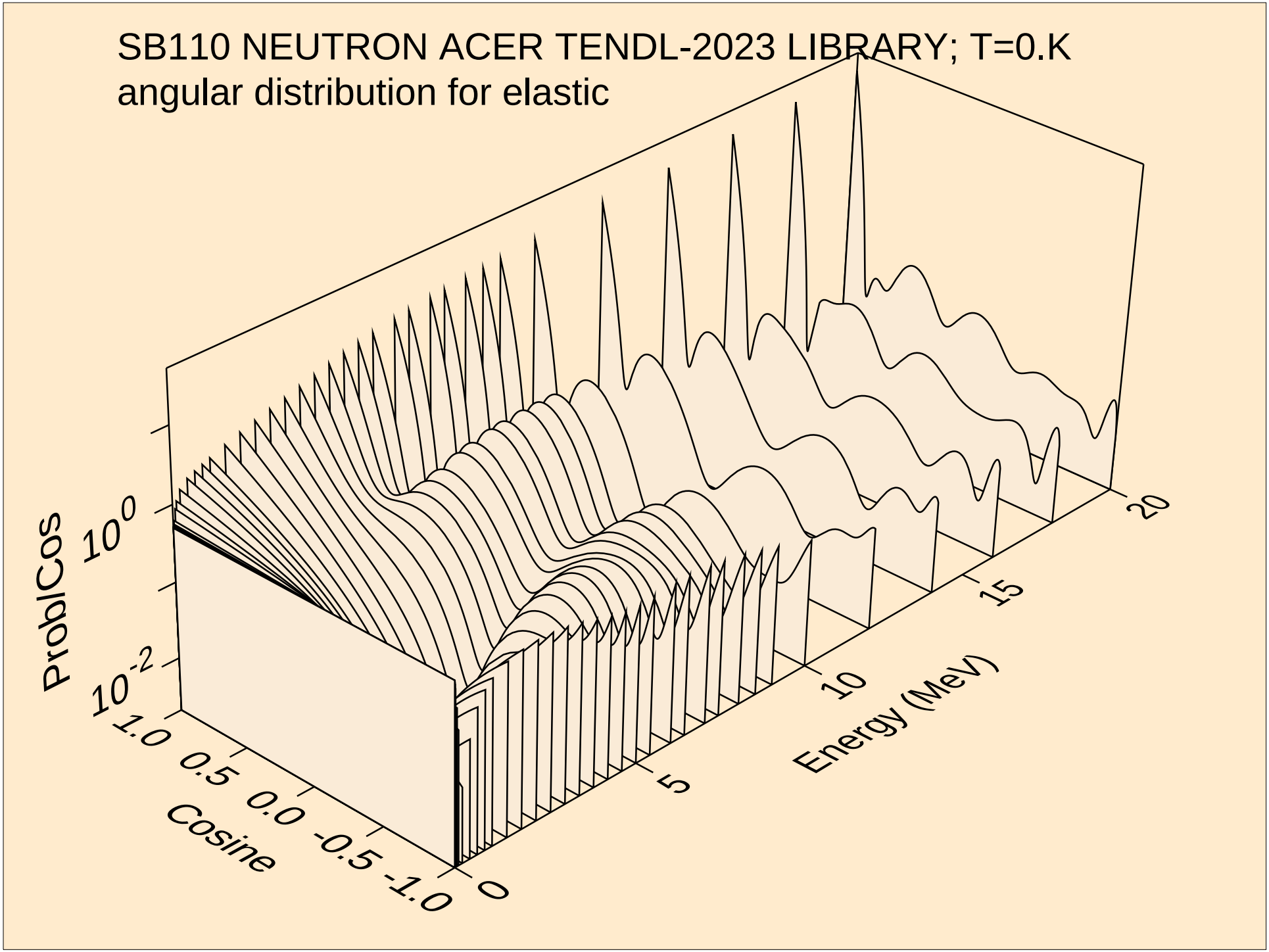

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions
(n,3n)a
(n,n*)p
(n,n*)2a
(n,2n)2a
(n,n*)d
Cross section (barns)
Energy (MeV)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
0
5
10
15
20
25
30

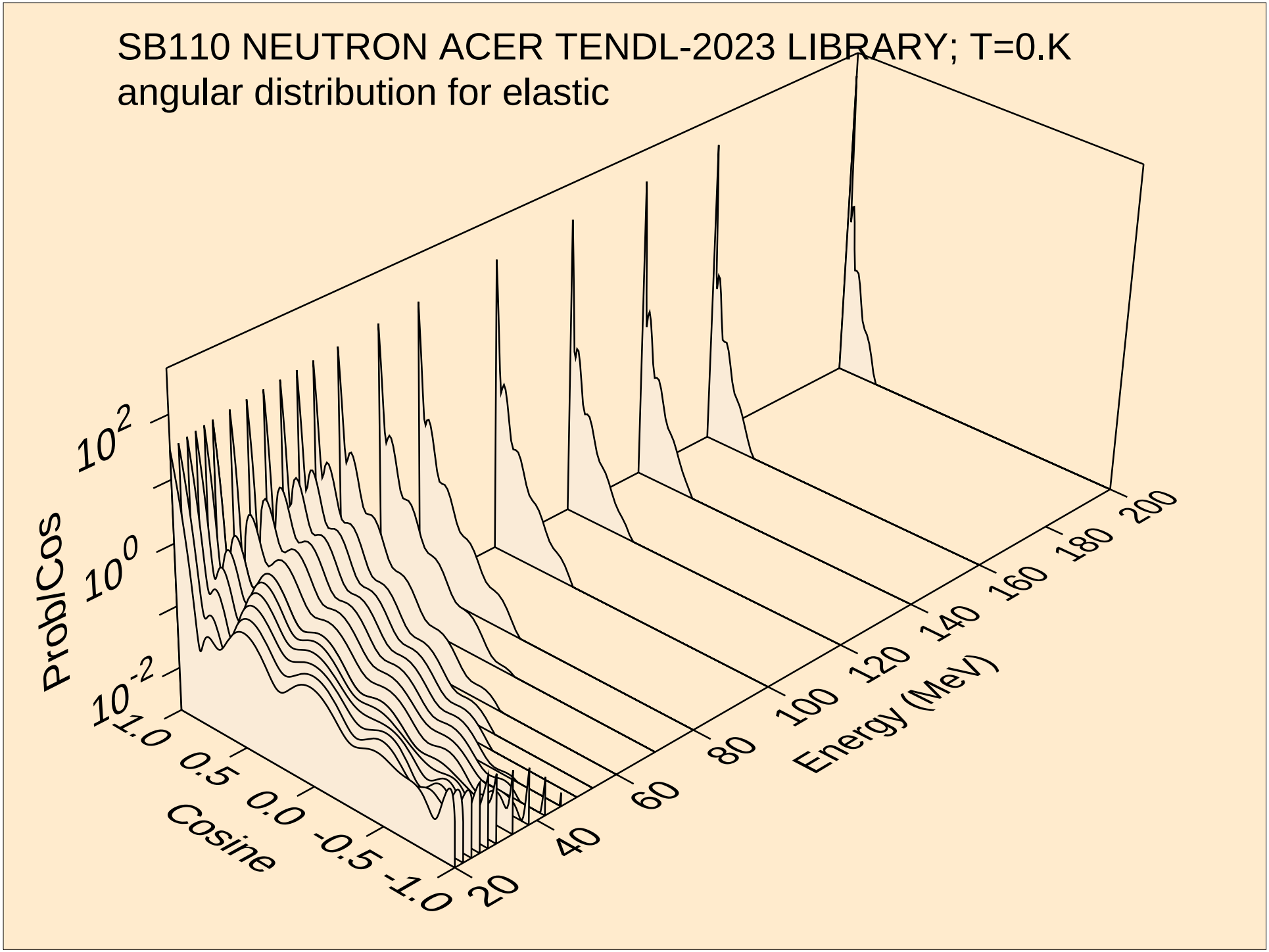

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions
400
*10-3
350
300
250
200
150
100
50
0
Cross section (barns)
(n,n*)t
(n,n*)he3
(n,2np)
(n,3np)
(n,n2p)
5
10
15
20
25
30
Energy (MeV)

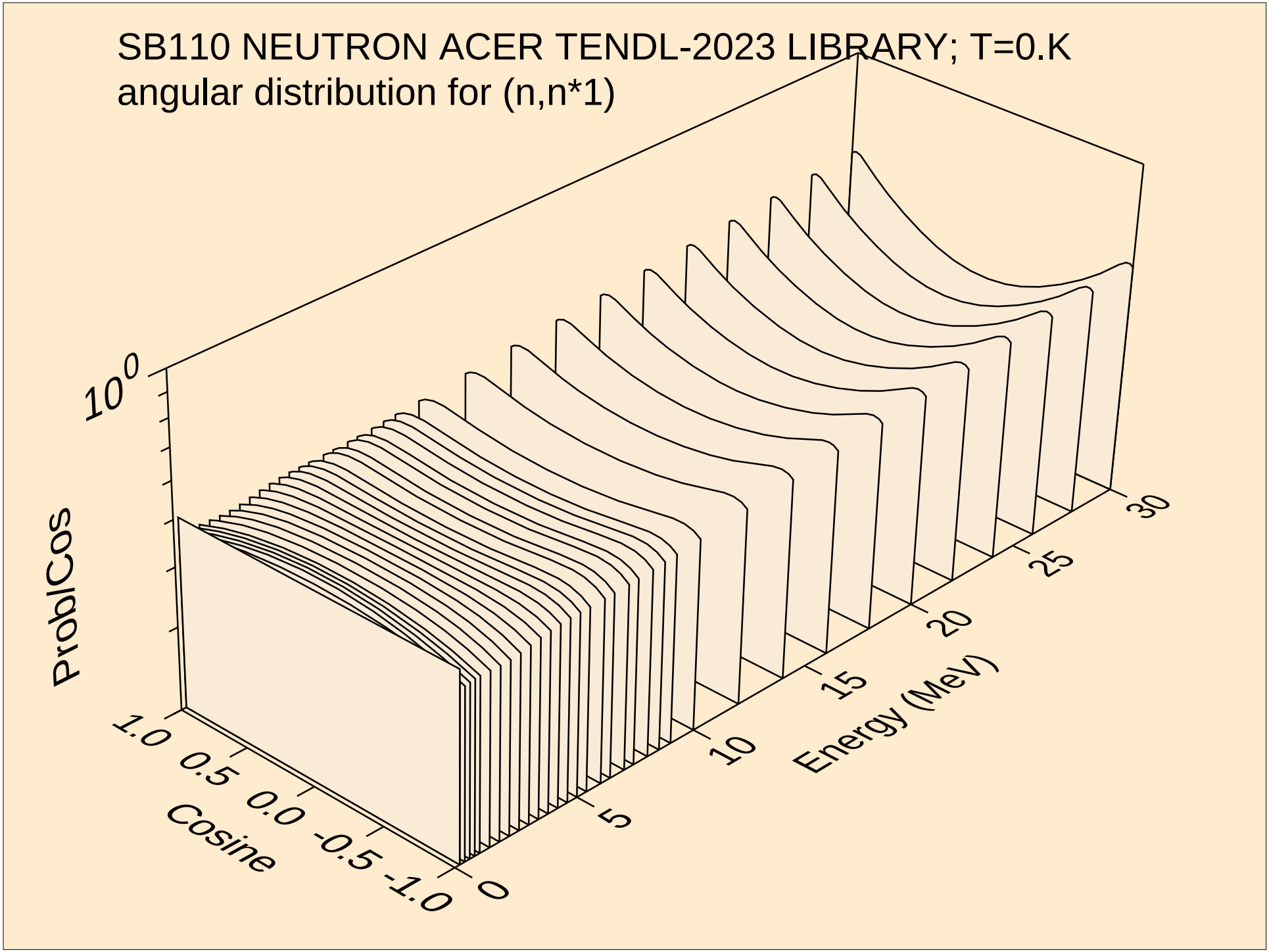

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions
120
*10-3
100
80
60
40
20
0
Cross section (barns)
(n,npa)
(n,n*c)
(n,t)
(n,he3)
(n,d2a)
0
5
10
15
20
25
30
Energy (MeV)

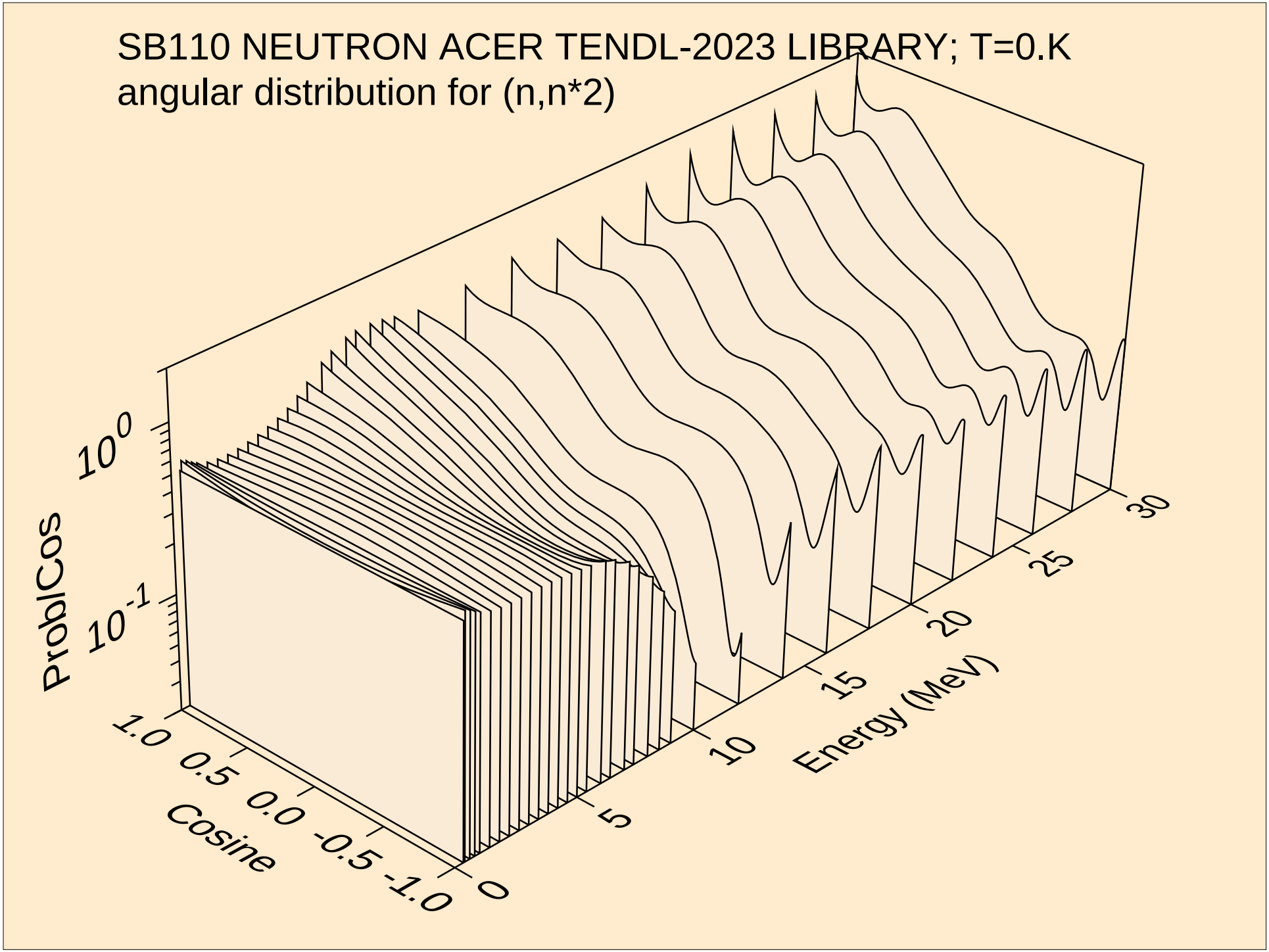

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions
*10-3
16
14
12
10
8
6
4
2
0
(n,pd)
(n,pt)
(n,da)
Cross section (barns)
0
5
10
15
20
25
30
Energy (MeV)

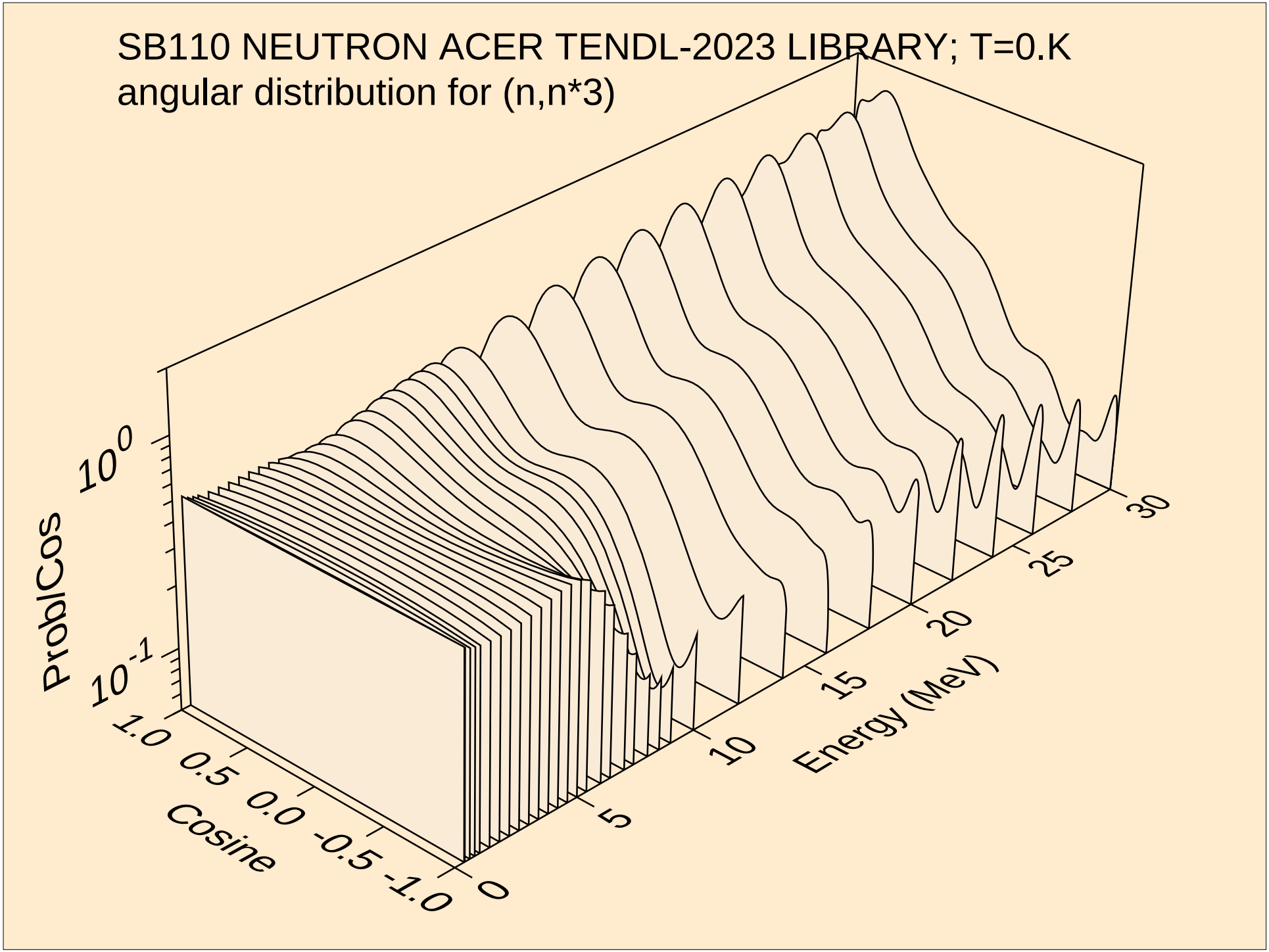

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions
(n,xt)
(n,xhe3)
Cross section (barns)
0.0
0.1
0.2
0.3
0.4
0.5
0
50
100
150
200
Energy (MeV)

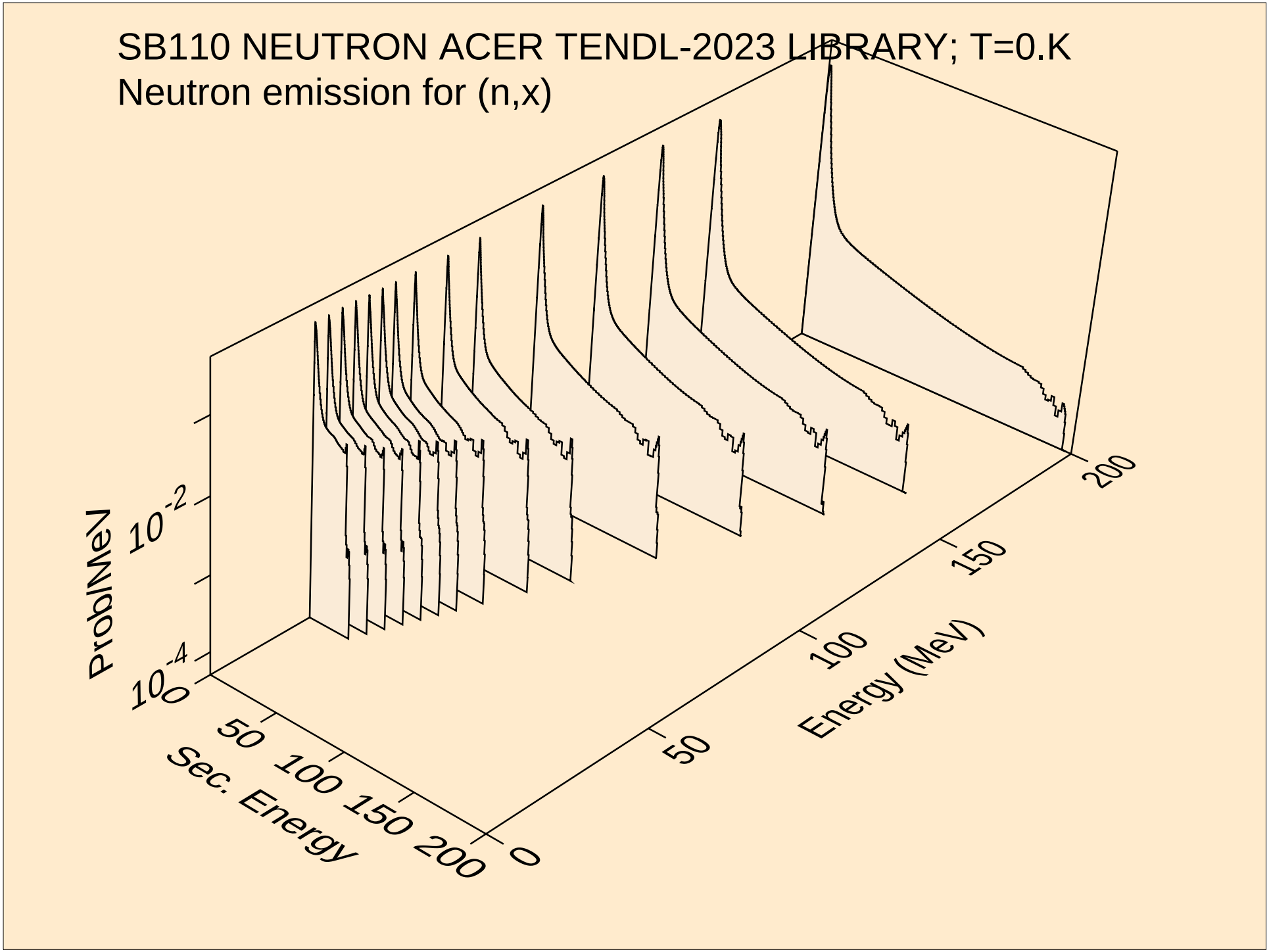

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for elastic
ProbICos
10^{0}
10^{-2}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
Energy (MeV)

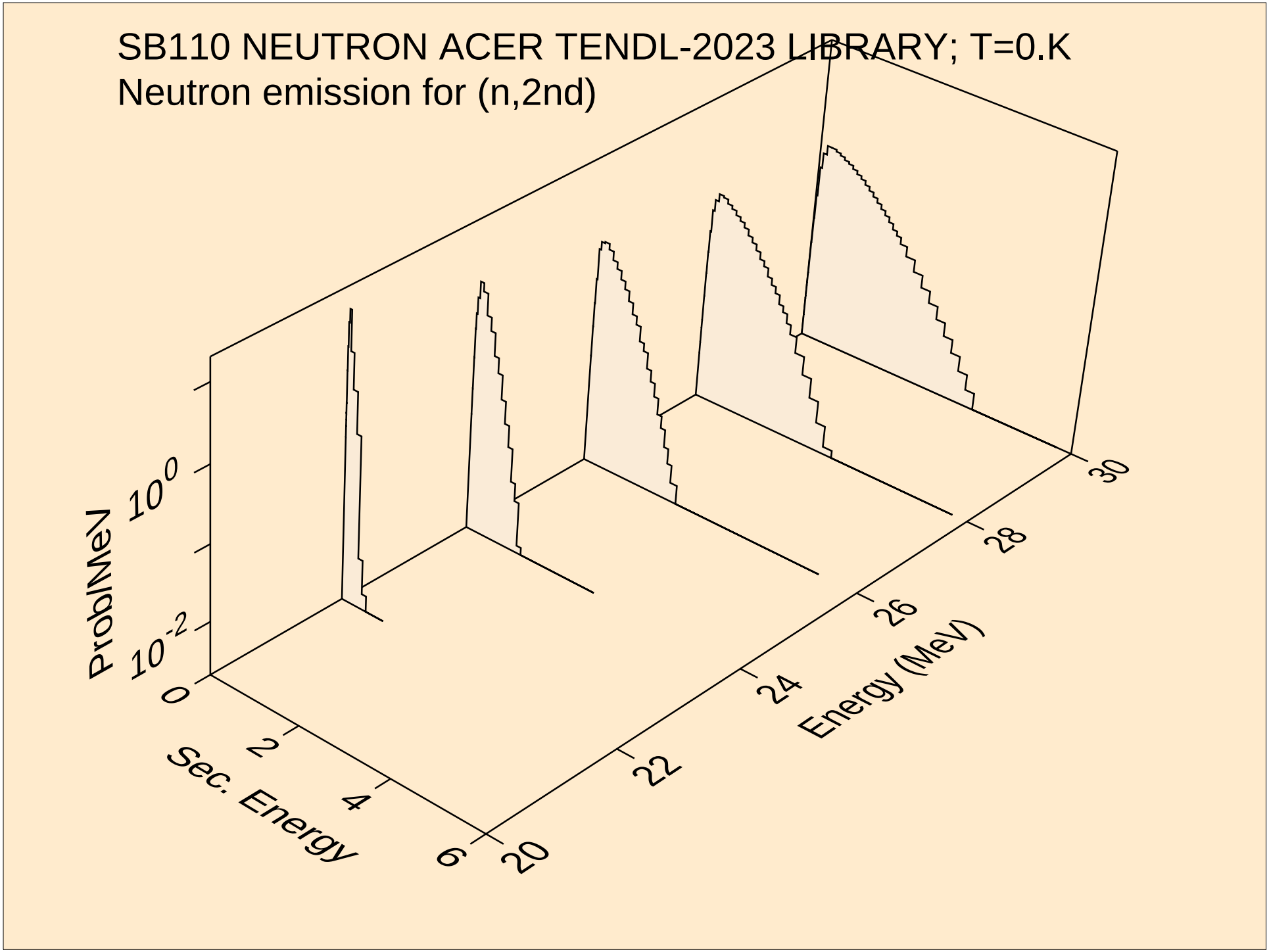

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for elastic
ProblCos
10^2
10^0
10^{-2}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

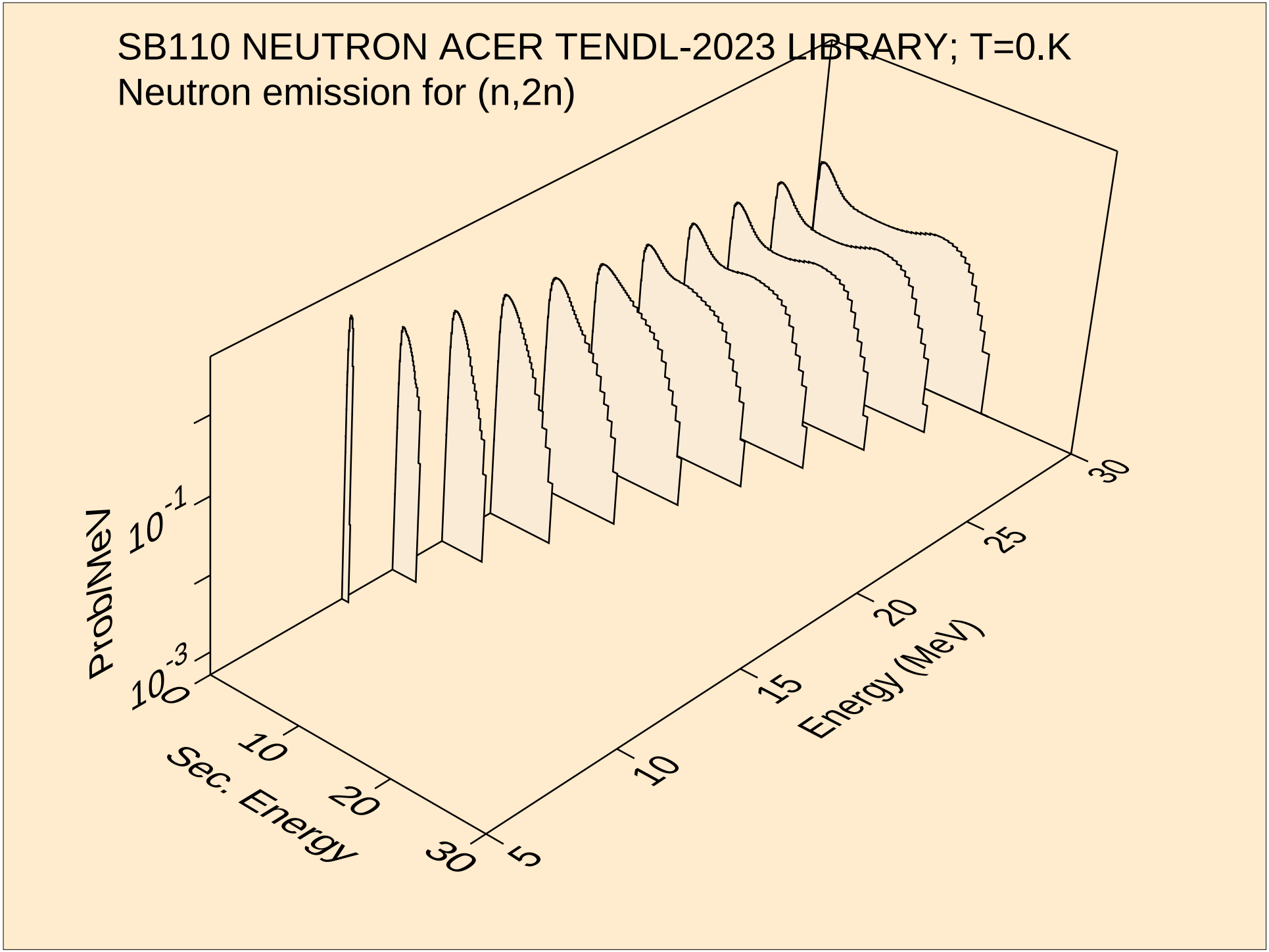

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*1)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

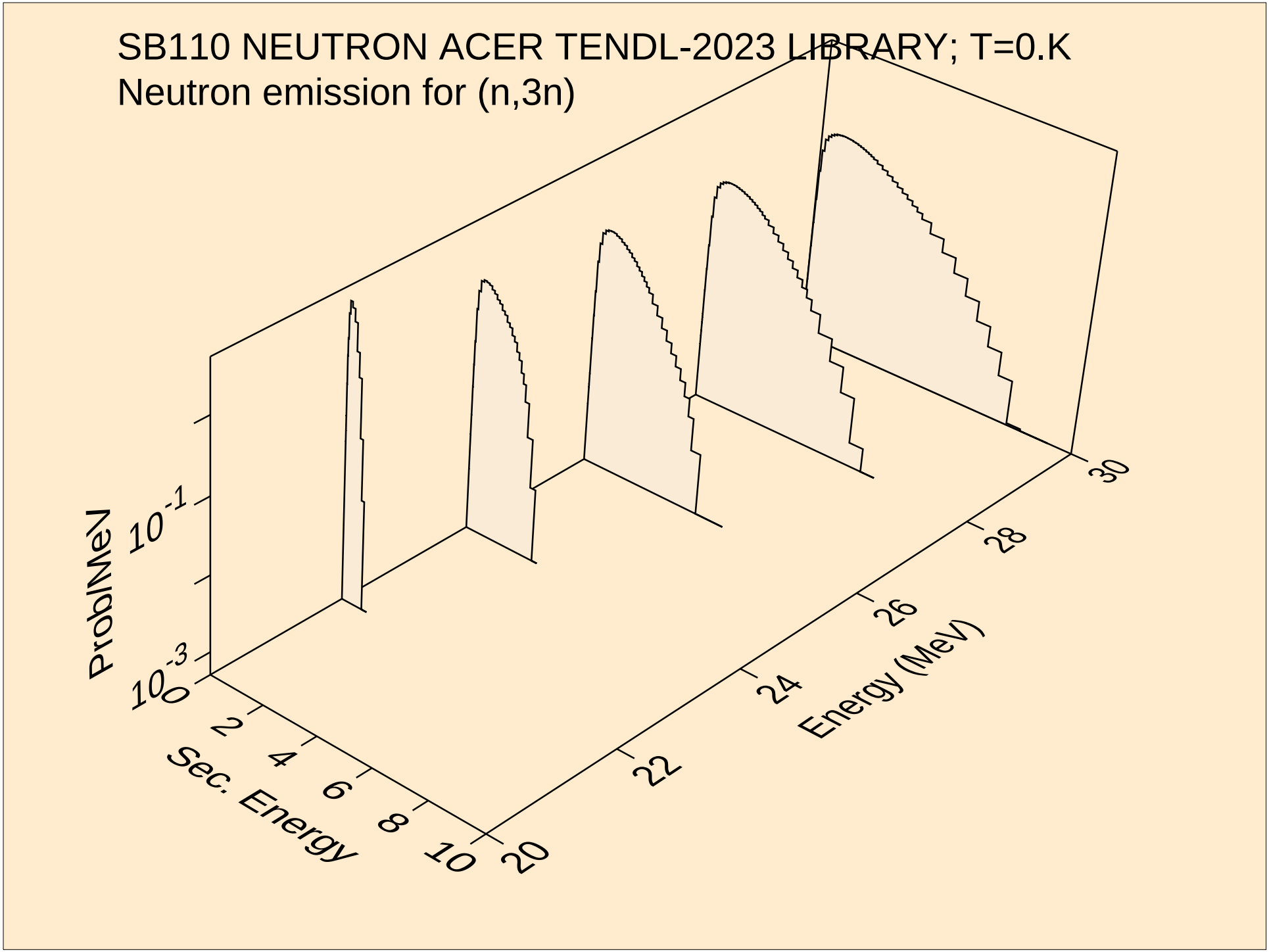

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*2)
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

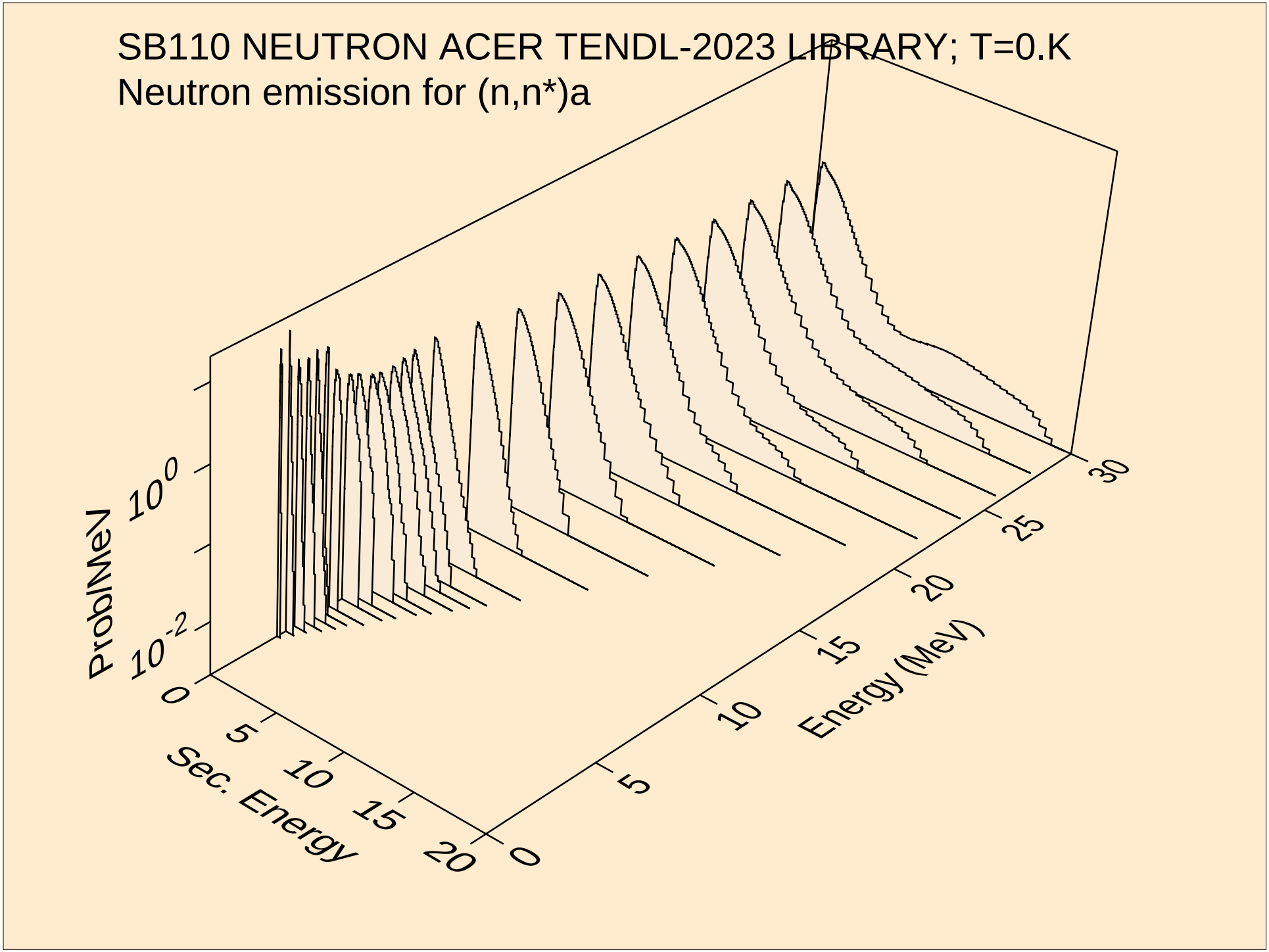

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*3)
Prob\Cos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

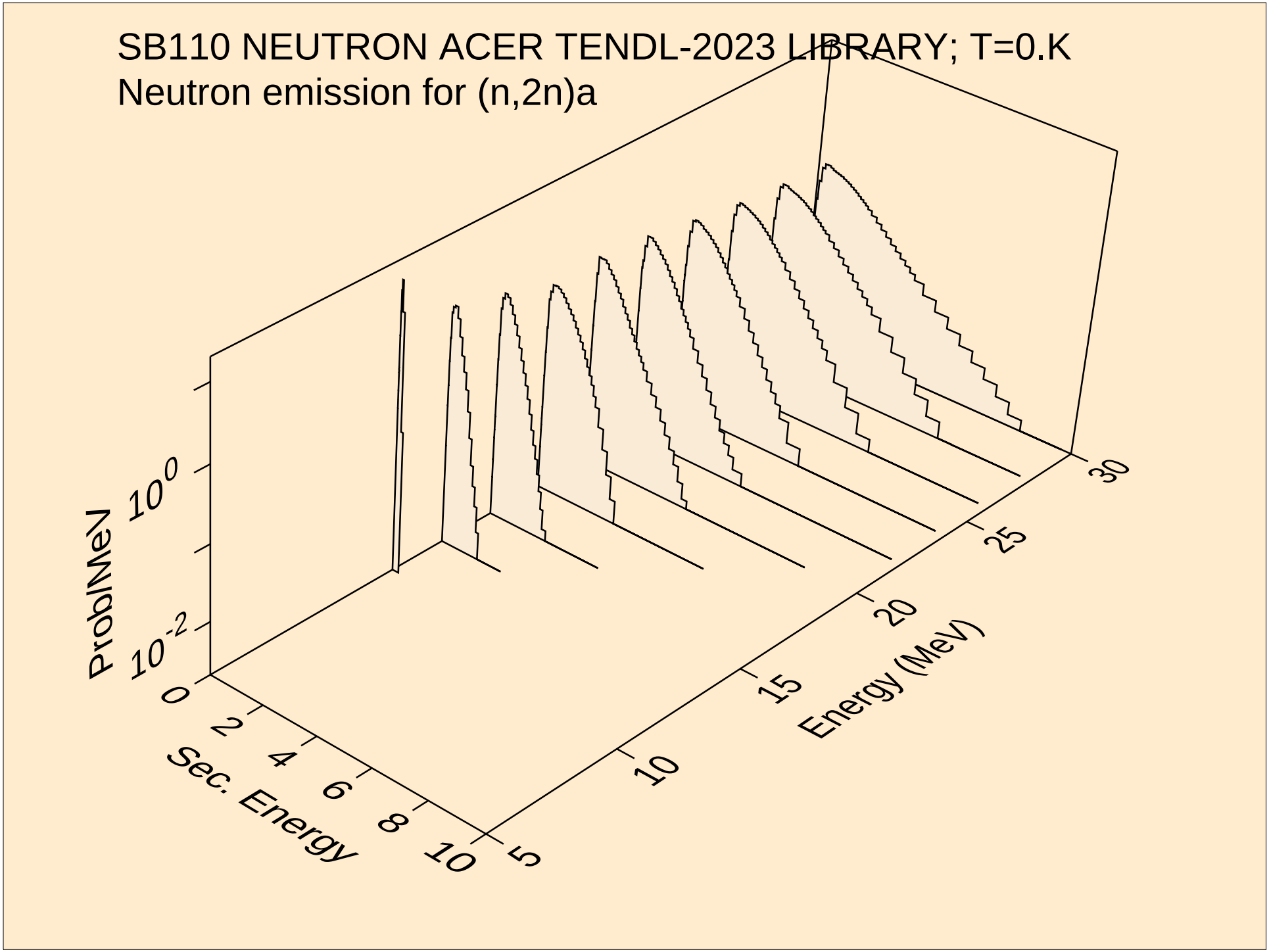

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,x)
Prob/MeV
10-2
10-4
0
50
100
150
200
Sec. Energy
0
50
100
150
200
Energy (MeV)

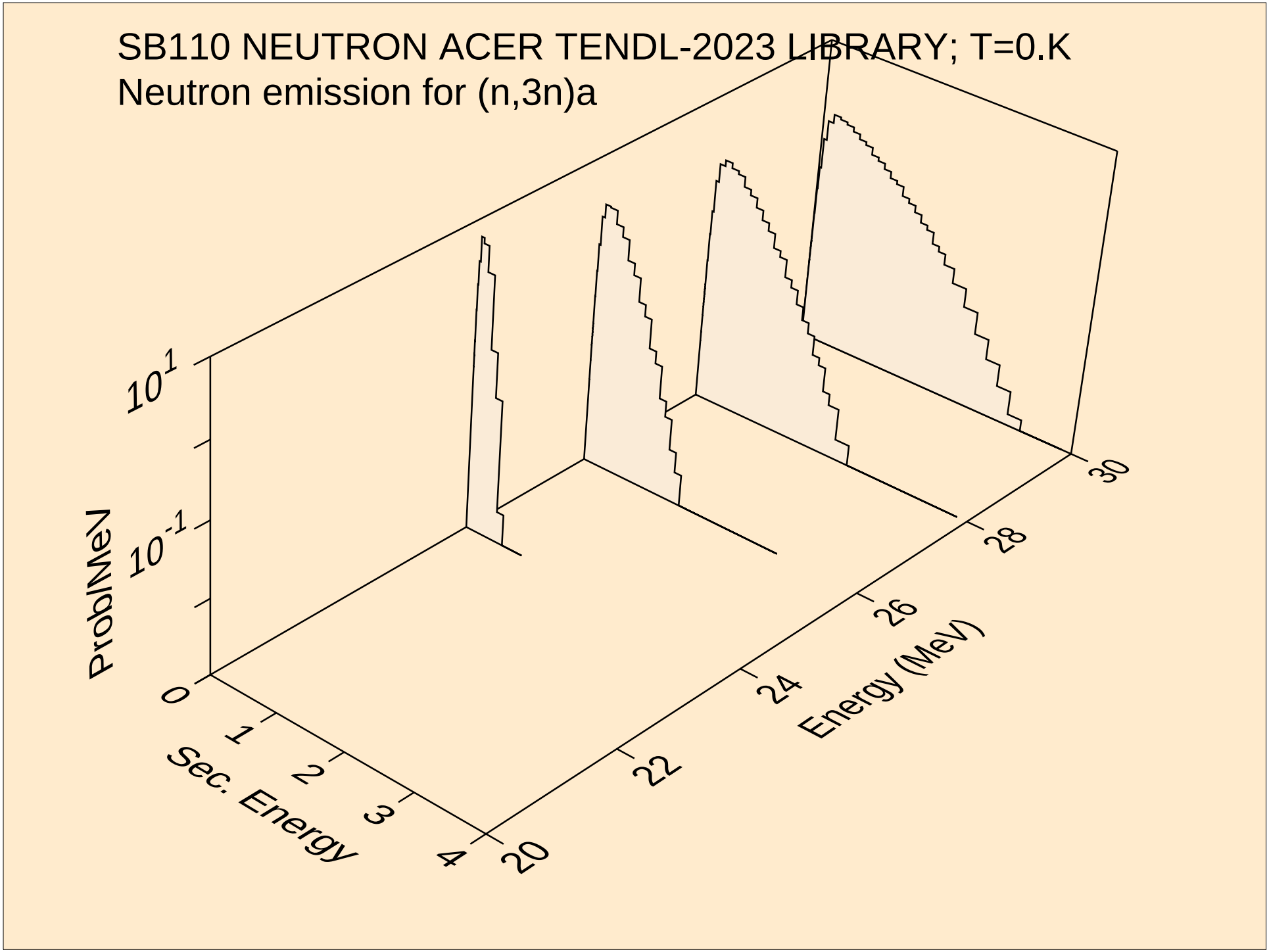

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,2nd)
Prob/MeV
10^{0}
10^{-2}
0
2
4
6
Sec. Energy
20
22
24
26
28
30
Energy (MeV)

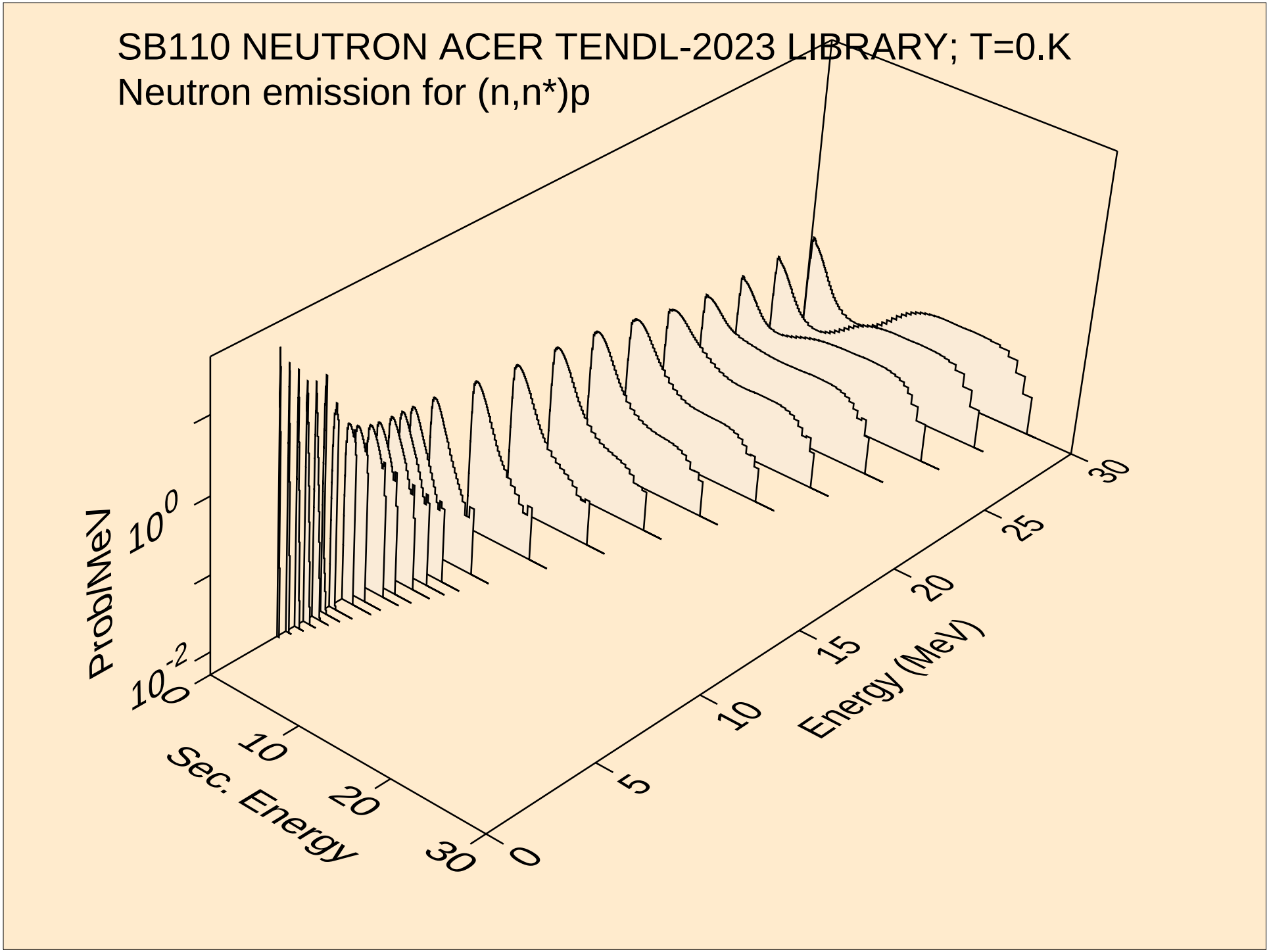

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,2n)
Prob/MeV
10-1
10-3
0
10
20
30
Sec. Energy
5
10
15
20
25
30
Energy (MeV)

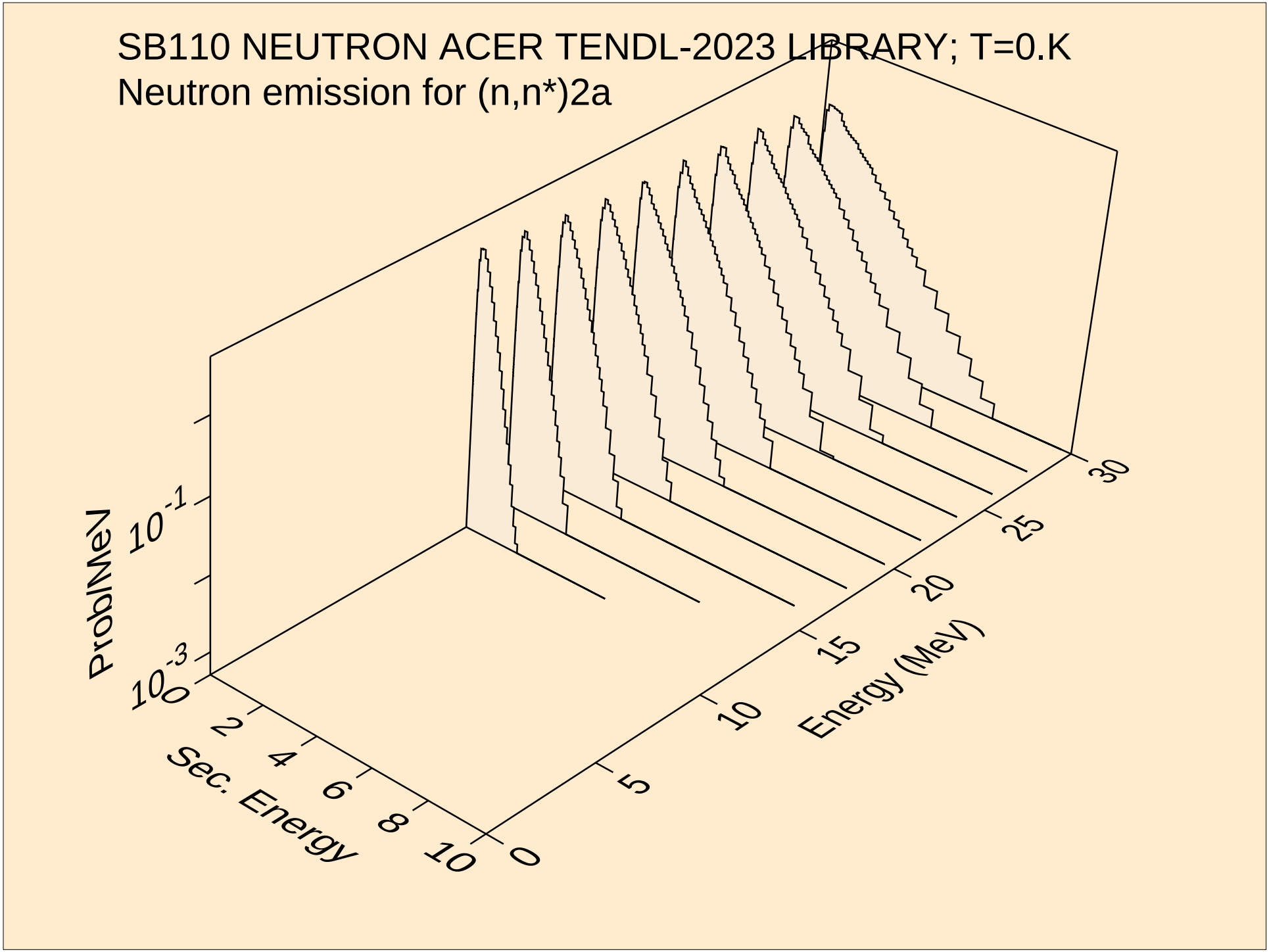

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,3n)
Prob/MeV
10-1
10-3
0
2
4
6
8
10
Sec. Energy
20
22
24
26
28
30
Energy (MeV)

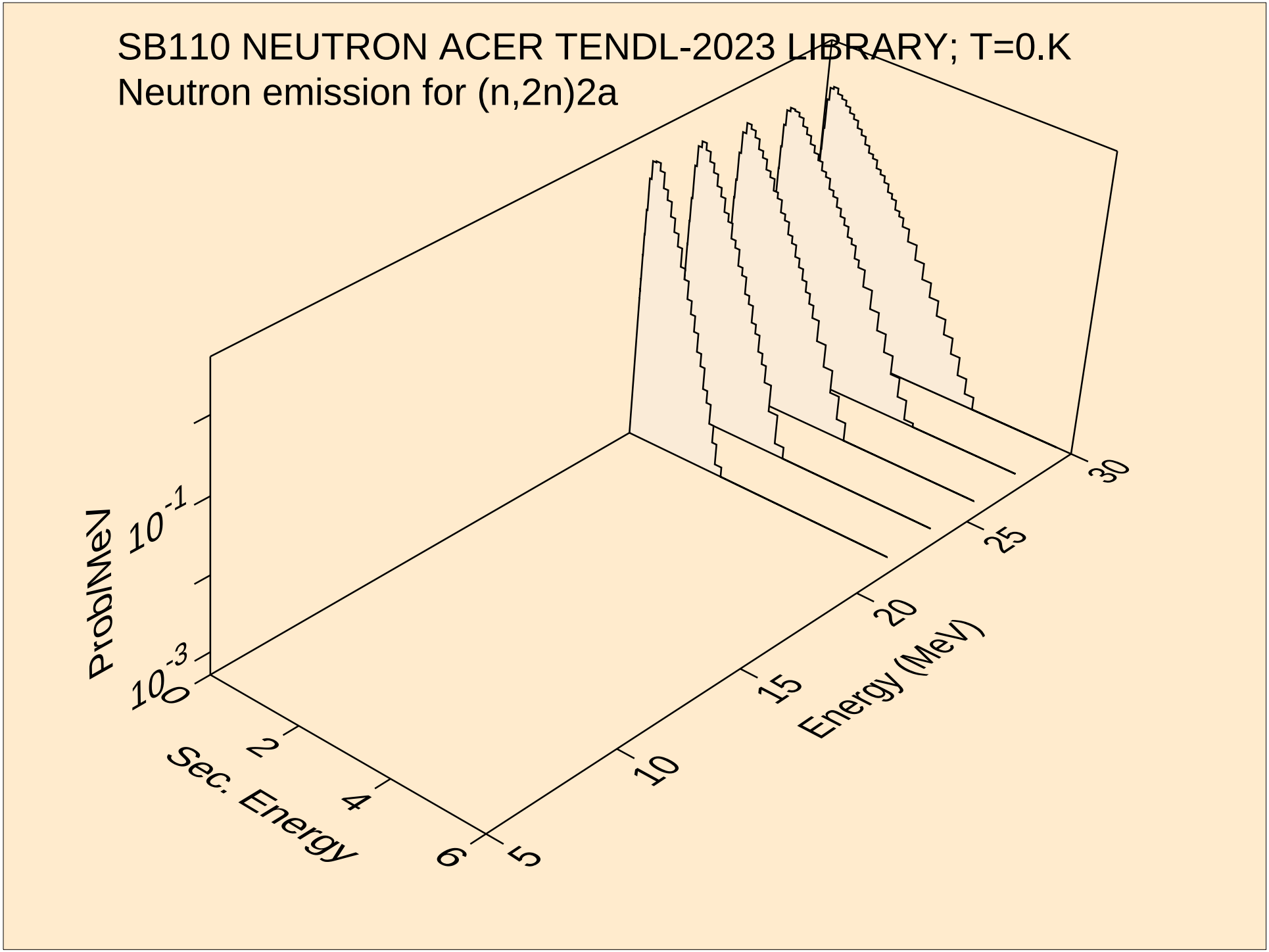

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,n*)a
Prob/MeV
10^0
10^-2
0
5
10
15
20
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)

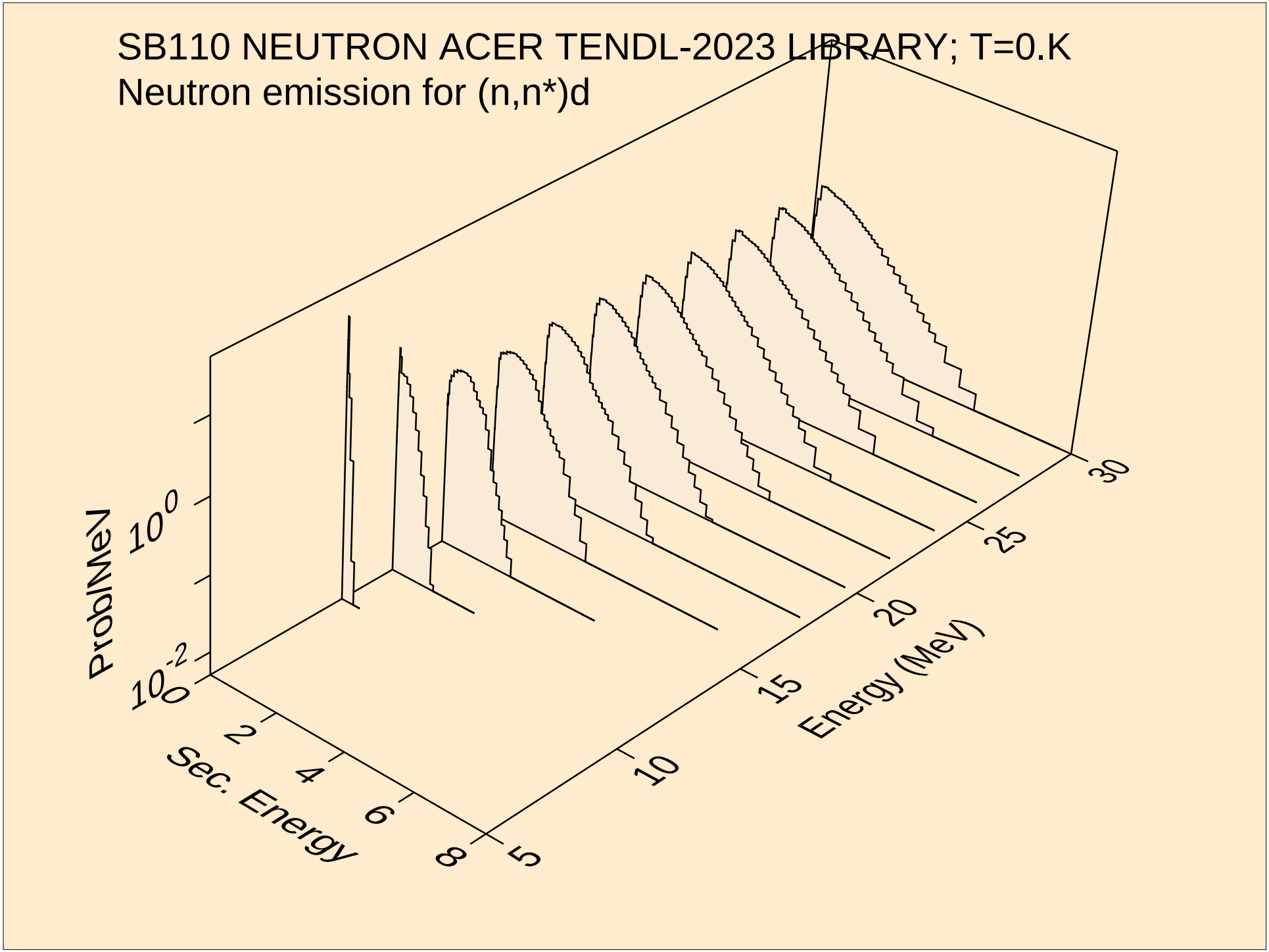

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,2n)a
Prob/MeV
10^0
10^-2
0
2
4
6
8
10
Sec. Energy
5
10
15
20
25
30
Energy (MeV)

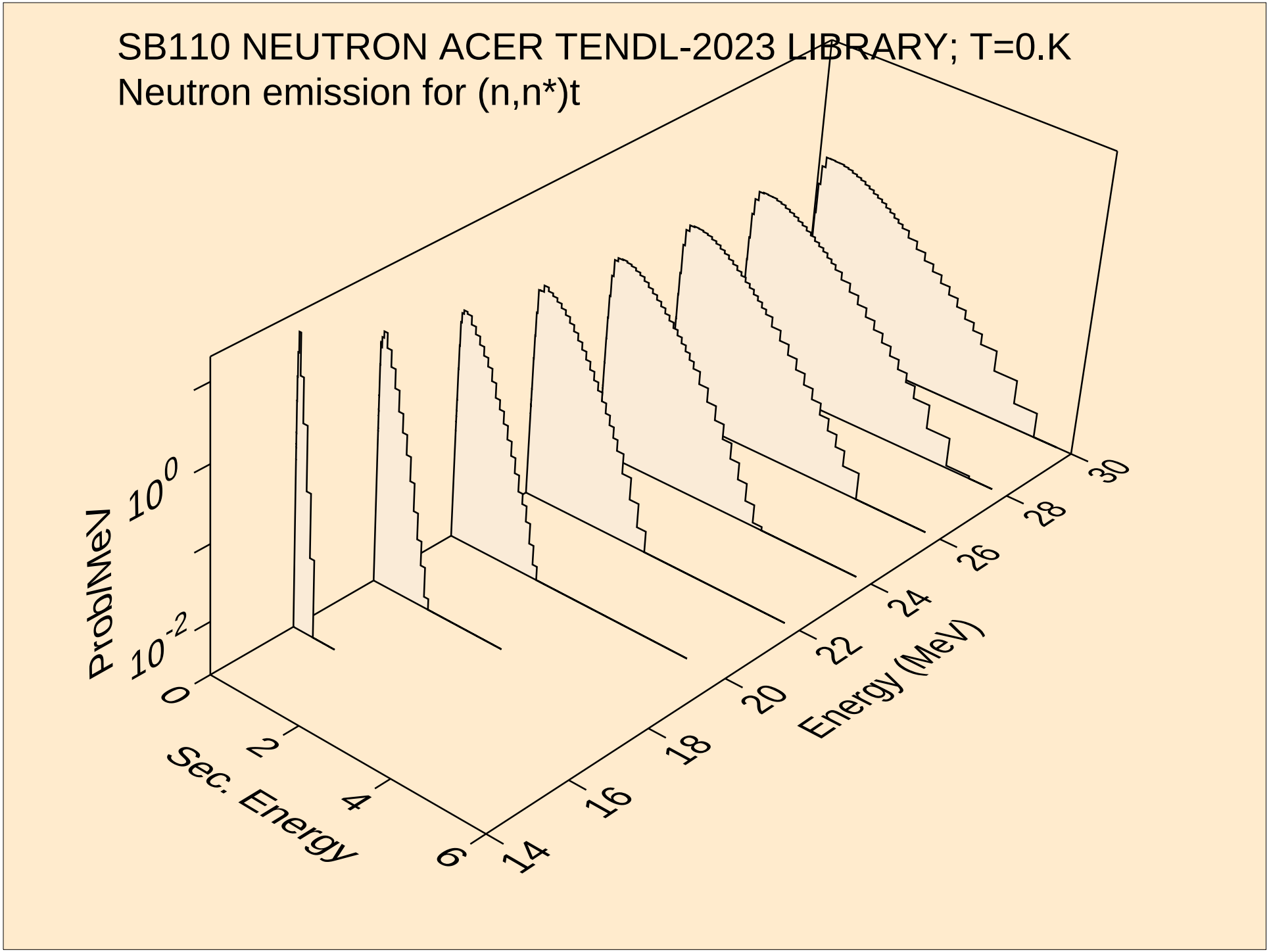

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,3n)a
Prob/MeV
10^1
10^-1
0
1
2
3
4
Sec. Energy
20
22
24
26
28
30
Energy (MeV)

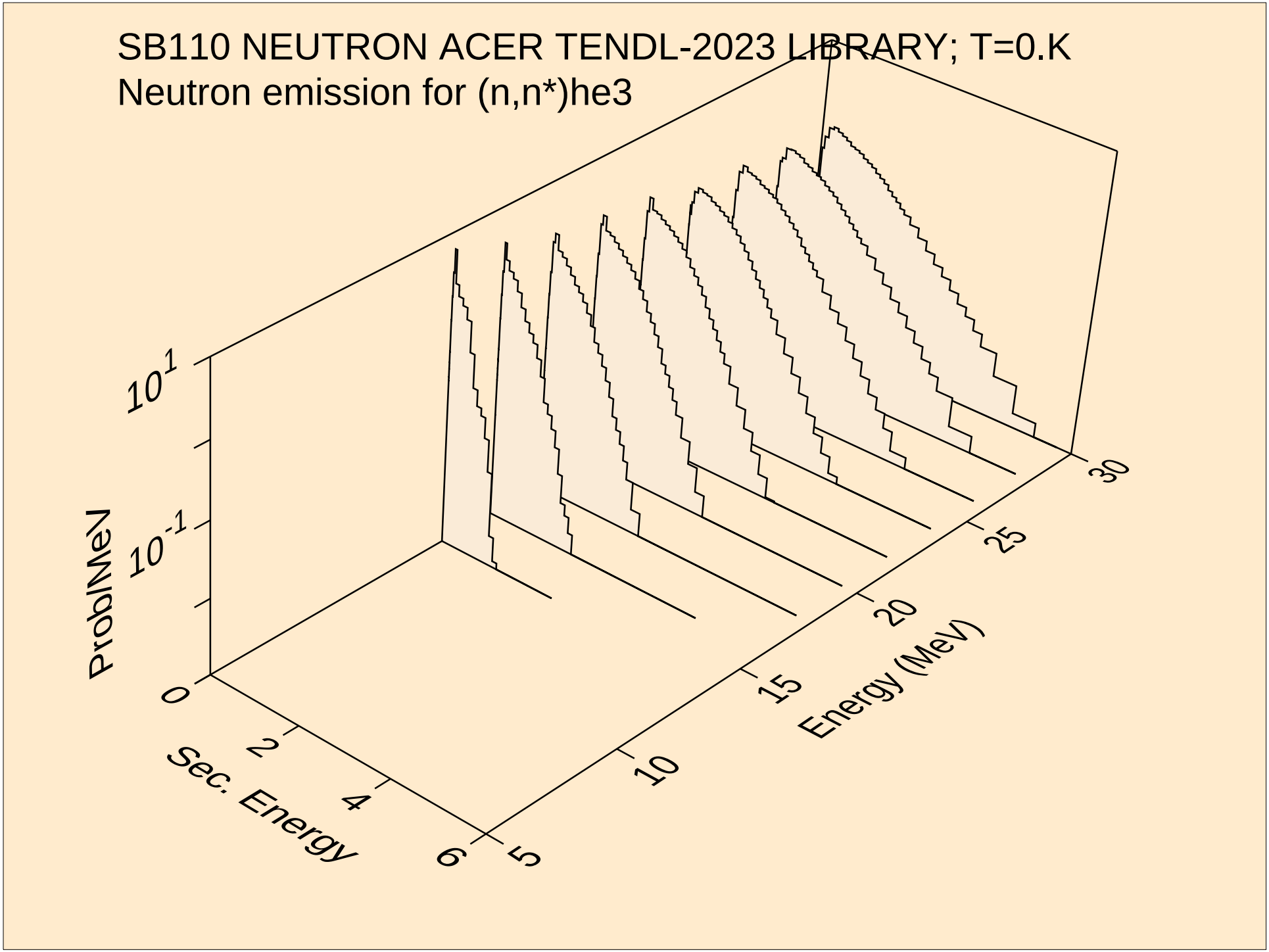

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,n*)p
Prob/MeV
10^0
10^-2
0
10
20
30
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)

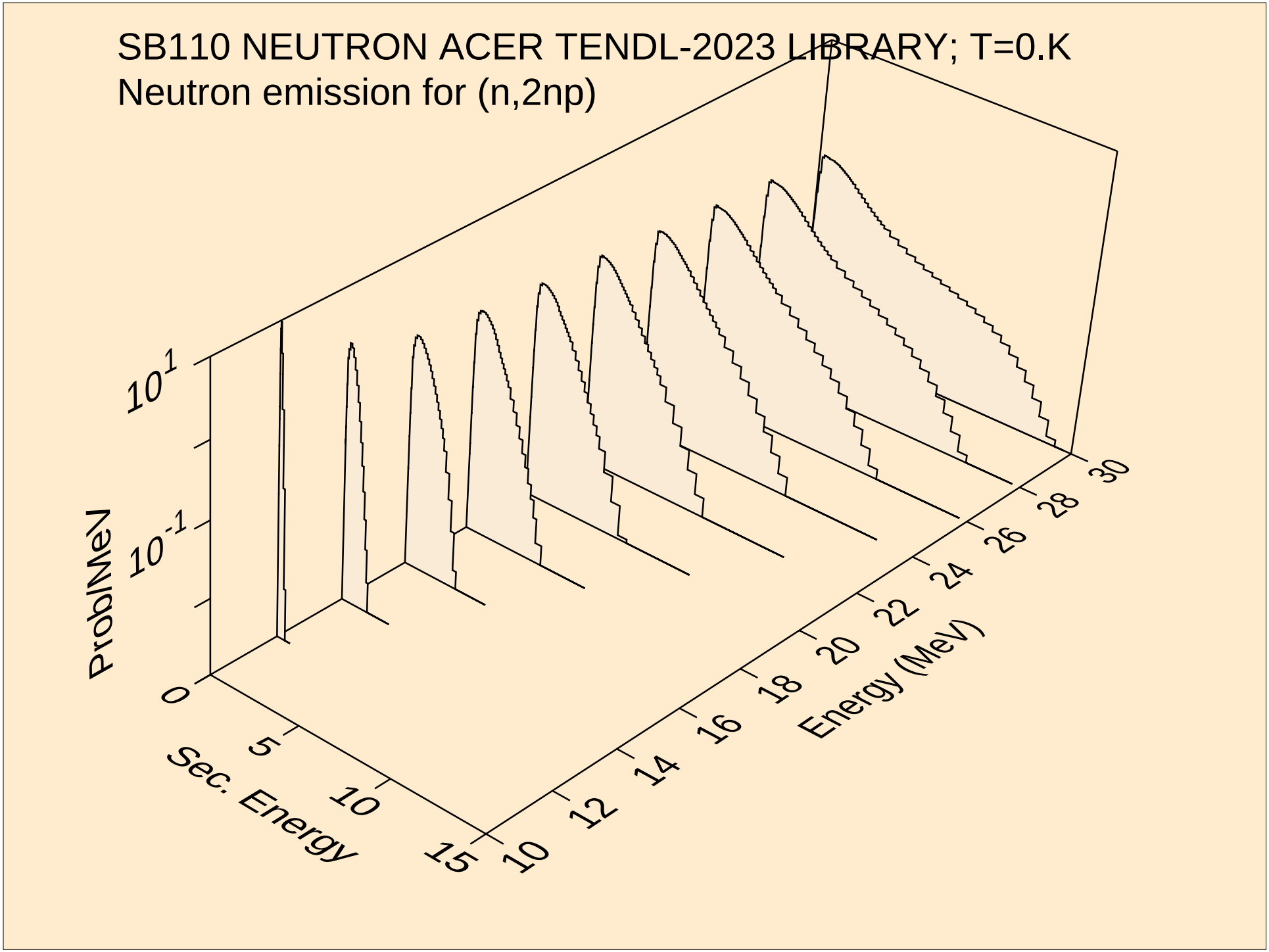

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,n*)2a
Prob/MeV
10-1
10-3
0
2
4
6
8
10
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)

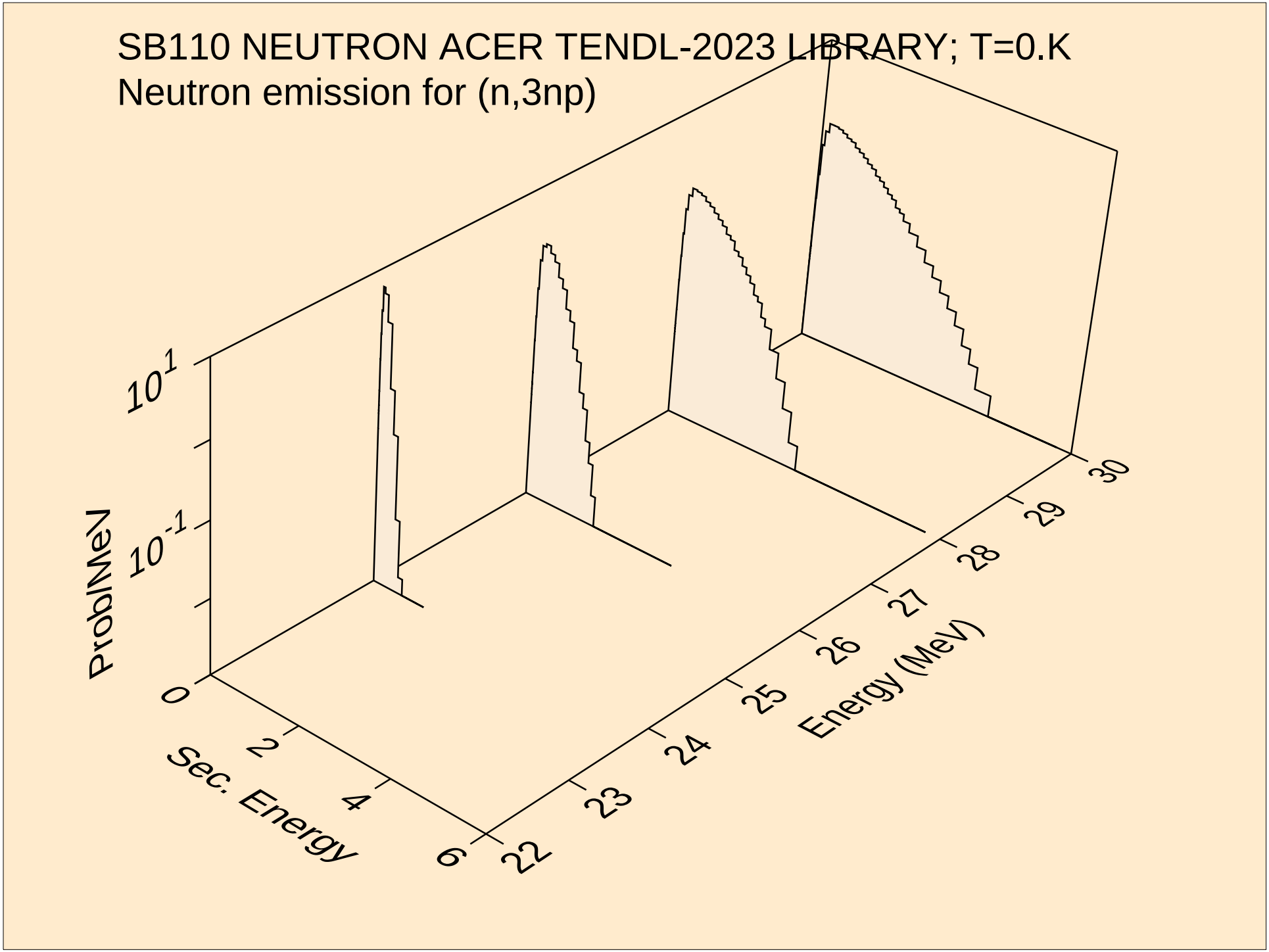

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,2n)2a
Prob/MeV
10-1
10-3
0
2
4
6
Sec. Energy
5
10
15
20
25
30
Energy (MeV)

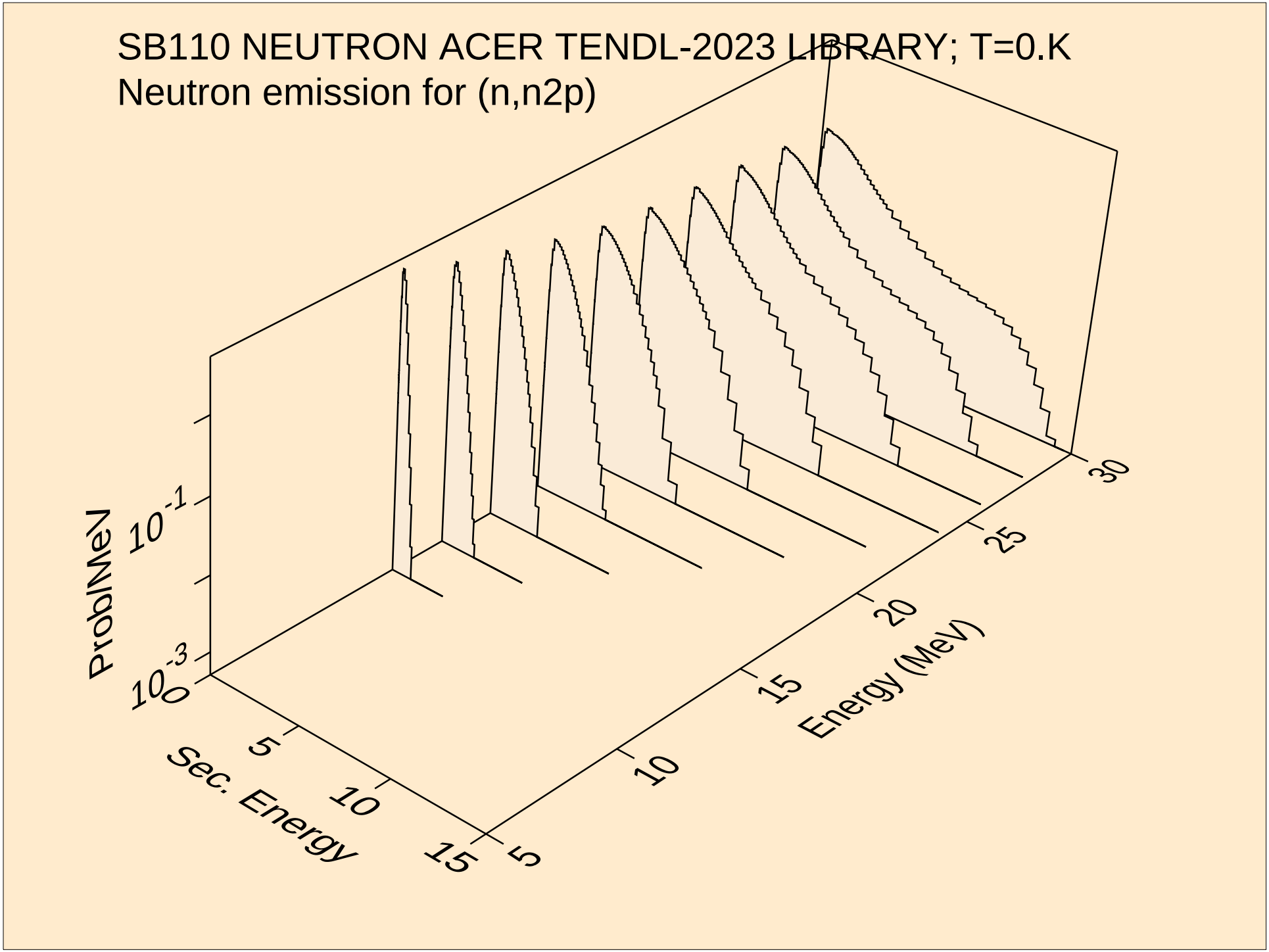

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,n*)d
Prob/MeV
10^{0}
10^{-2}
0
2
4
6
8
Sec. Energy
5
10
15
20
25
30
Energy (MeV)

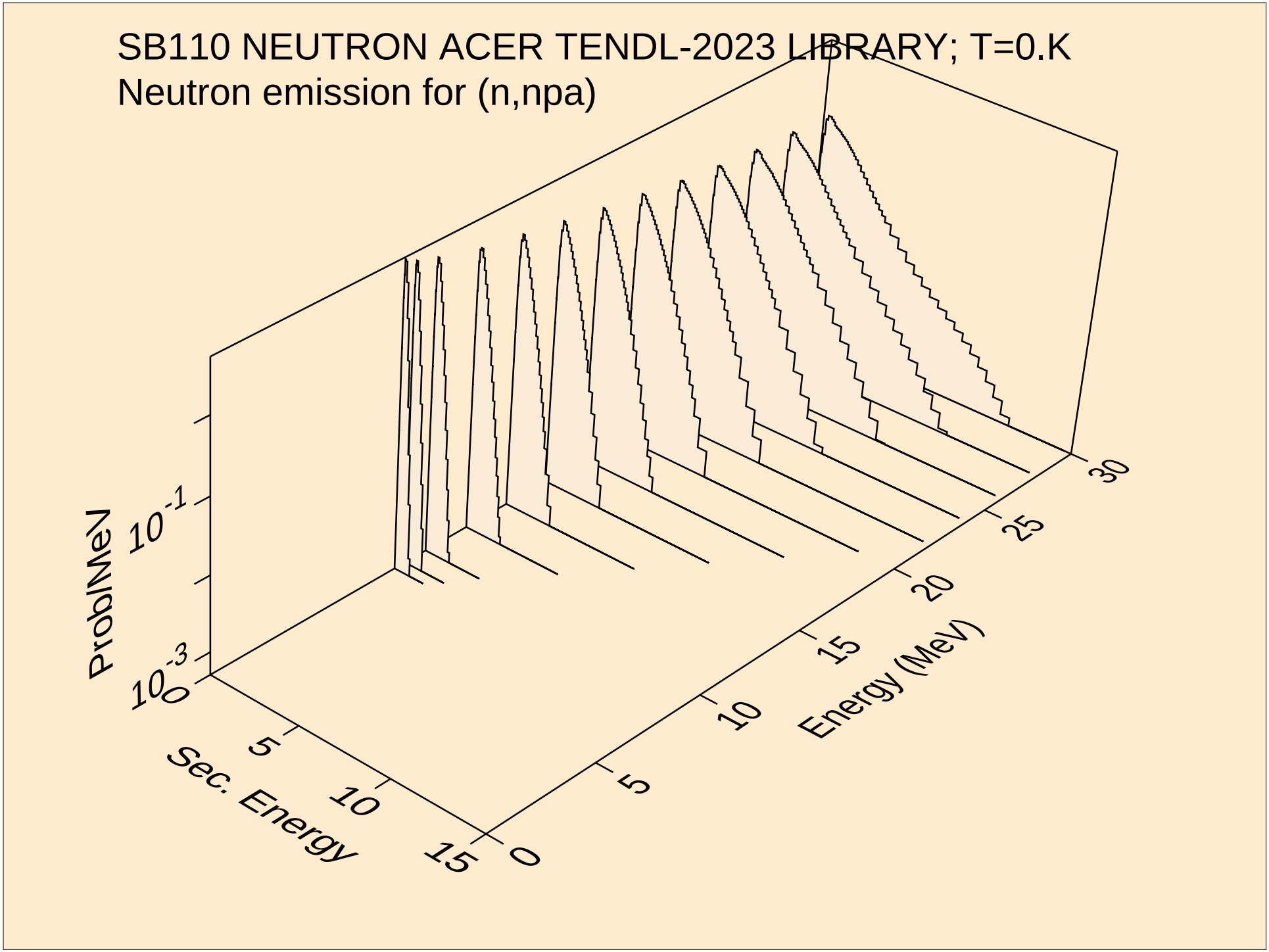

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,n*)t
Prob/MeV
10^0
10^-2
0
2
4
6
Sec. Energy
14
16
18
20
22
24
26
28
30
Energy (MeV)

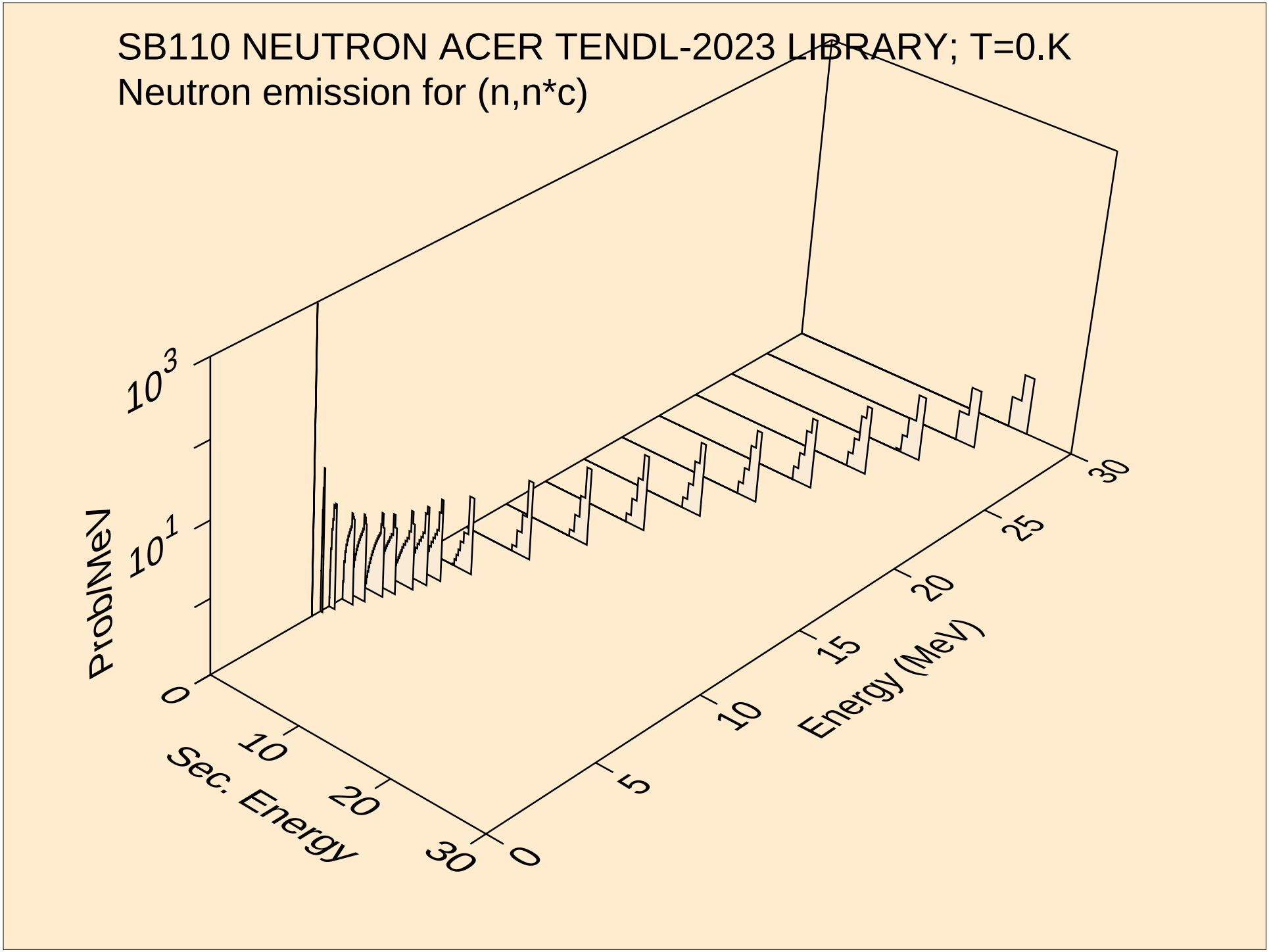

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,n*)he3
Prob/MeV
10^1
10^-1
0
2
4
6
Sec. Energy
5
10
15
20
25
30
Energy (MeV)

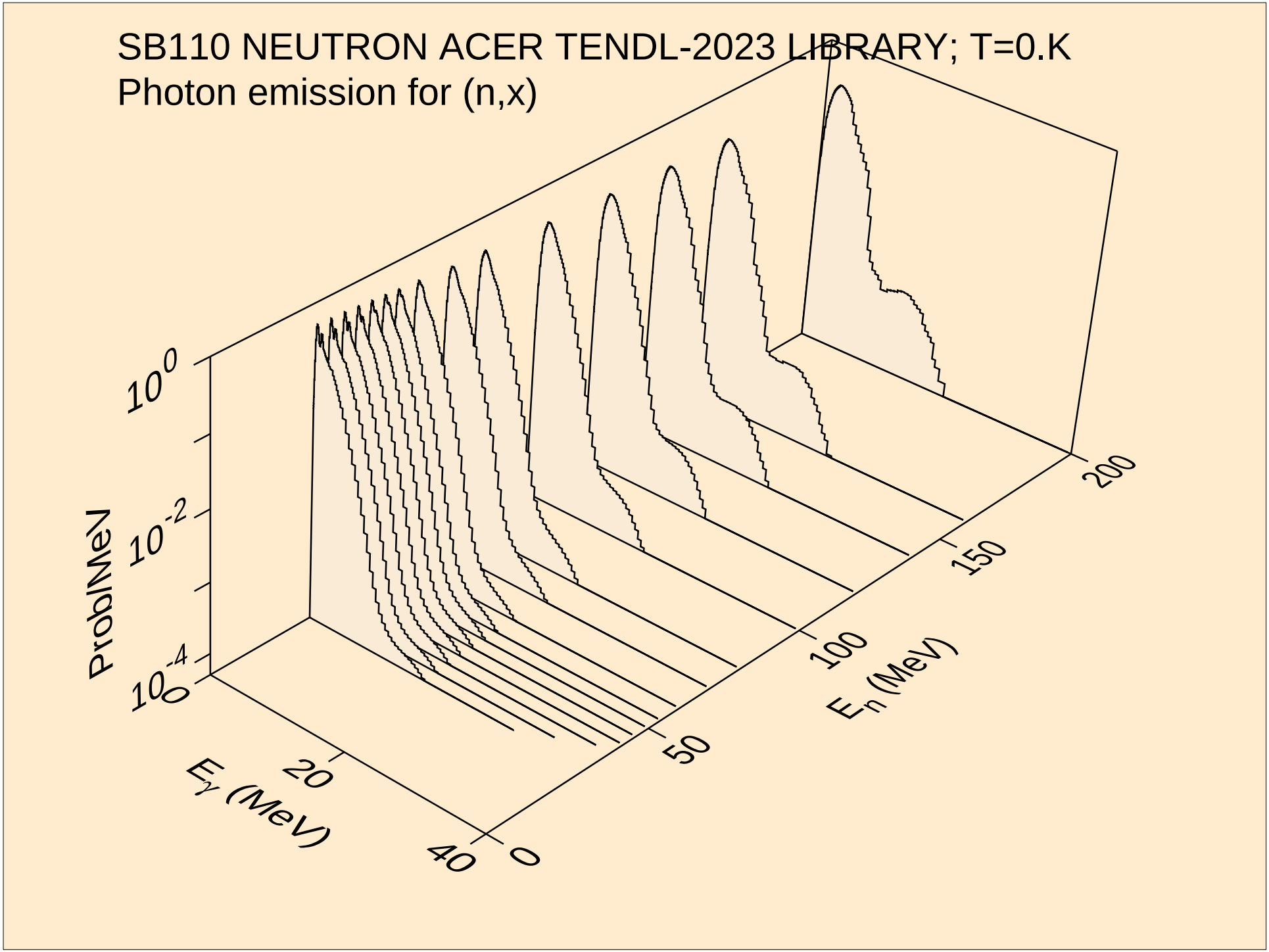

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,2np)
Prob/MeV
10^1
10^-1
0
Sec. Energy
5
10
15
Energy (MeV)
10
12
14
16
18
20
22
24
26
28
30

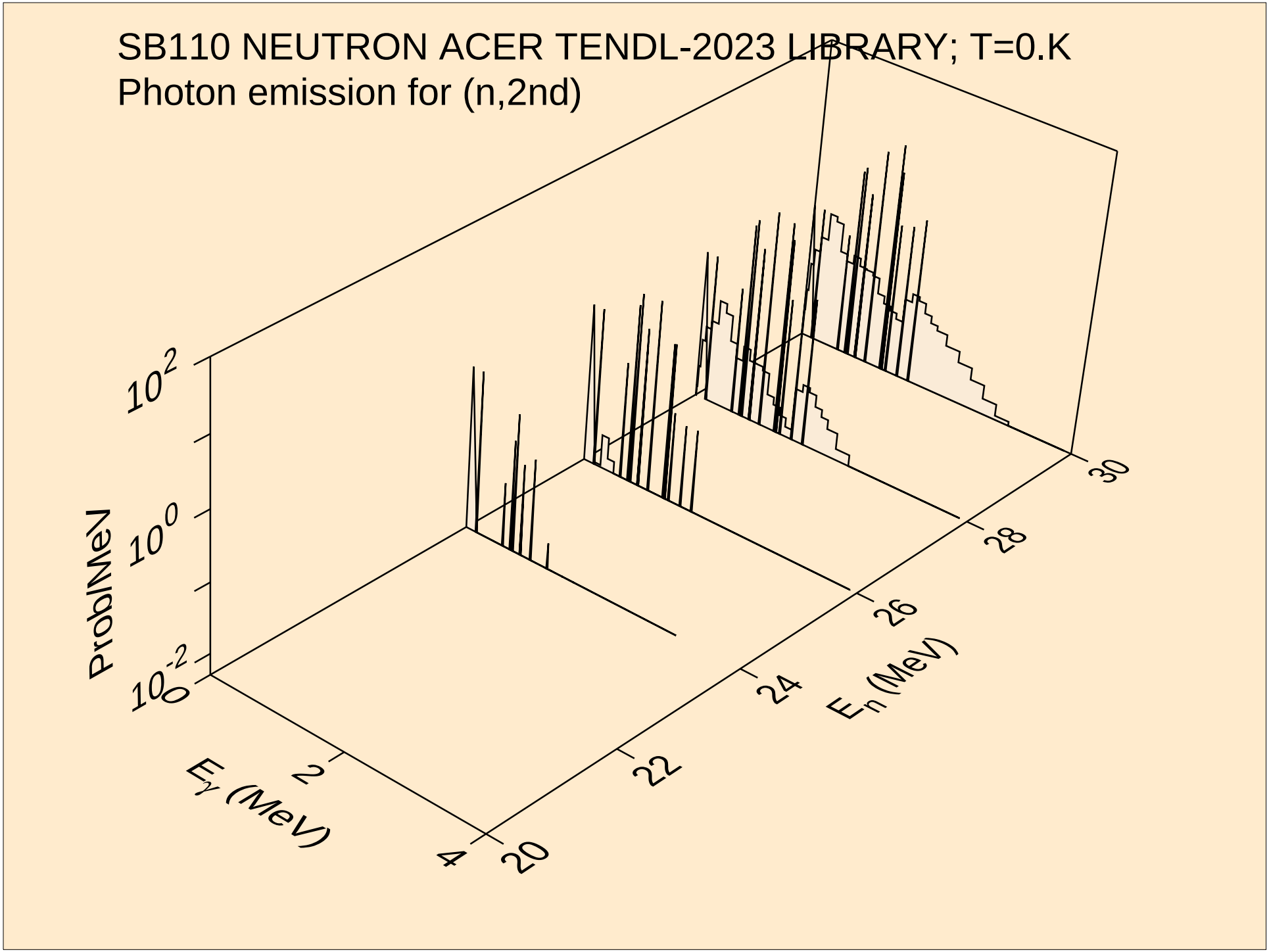

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,3np)
Prob/MeV
10^1
10^-1
0
2
4
6
Sec. Energy
22
23
24
25
26
27
28
29
30
Energy (MeV)

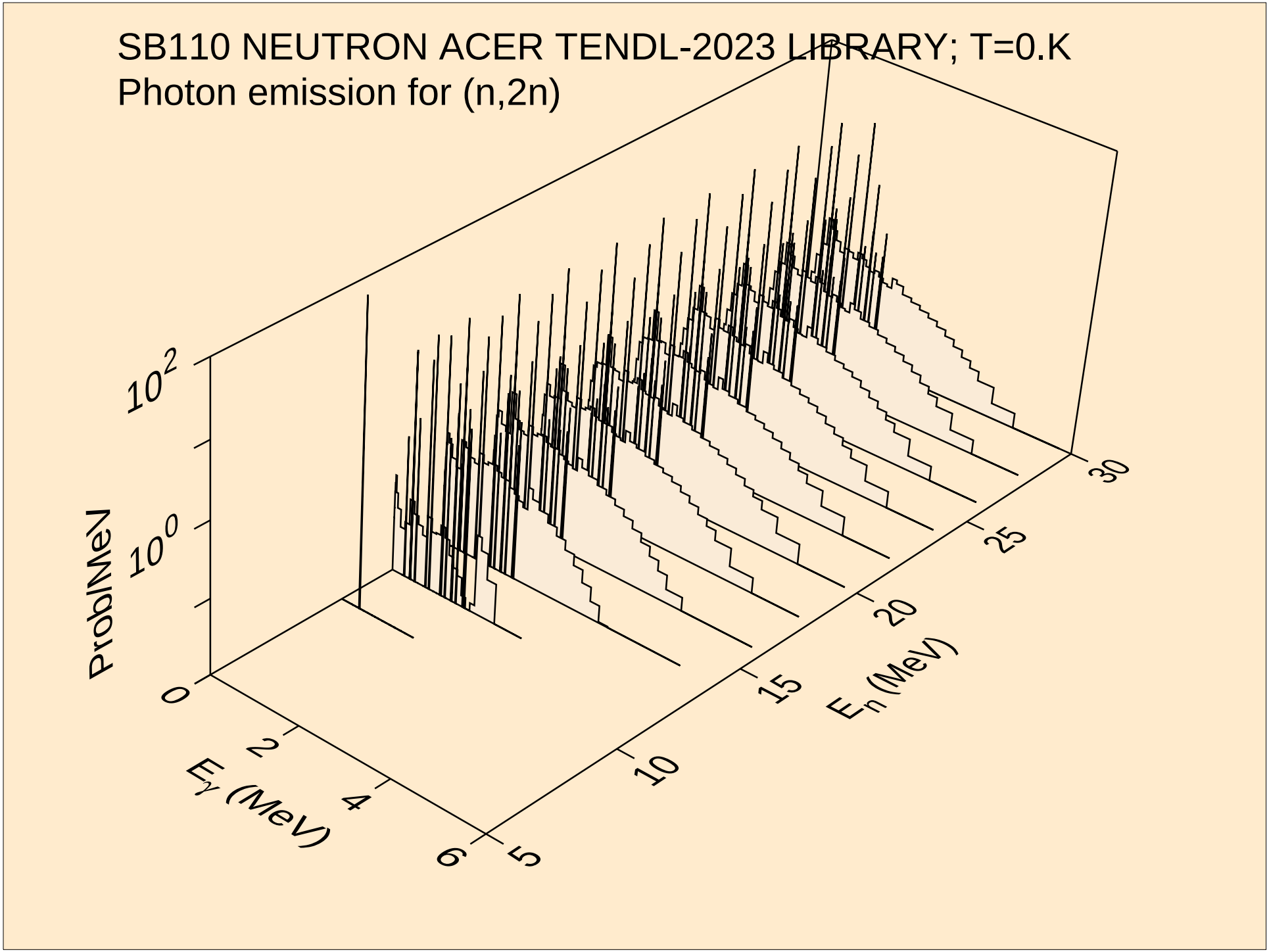

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,n2p)
Prob/MeV
10-1
10-3
0
5
10
15
Sec. Energy
5
10
15
20
25
30
Energy (MeV)

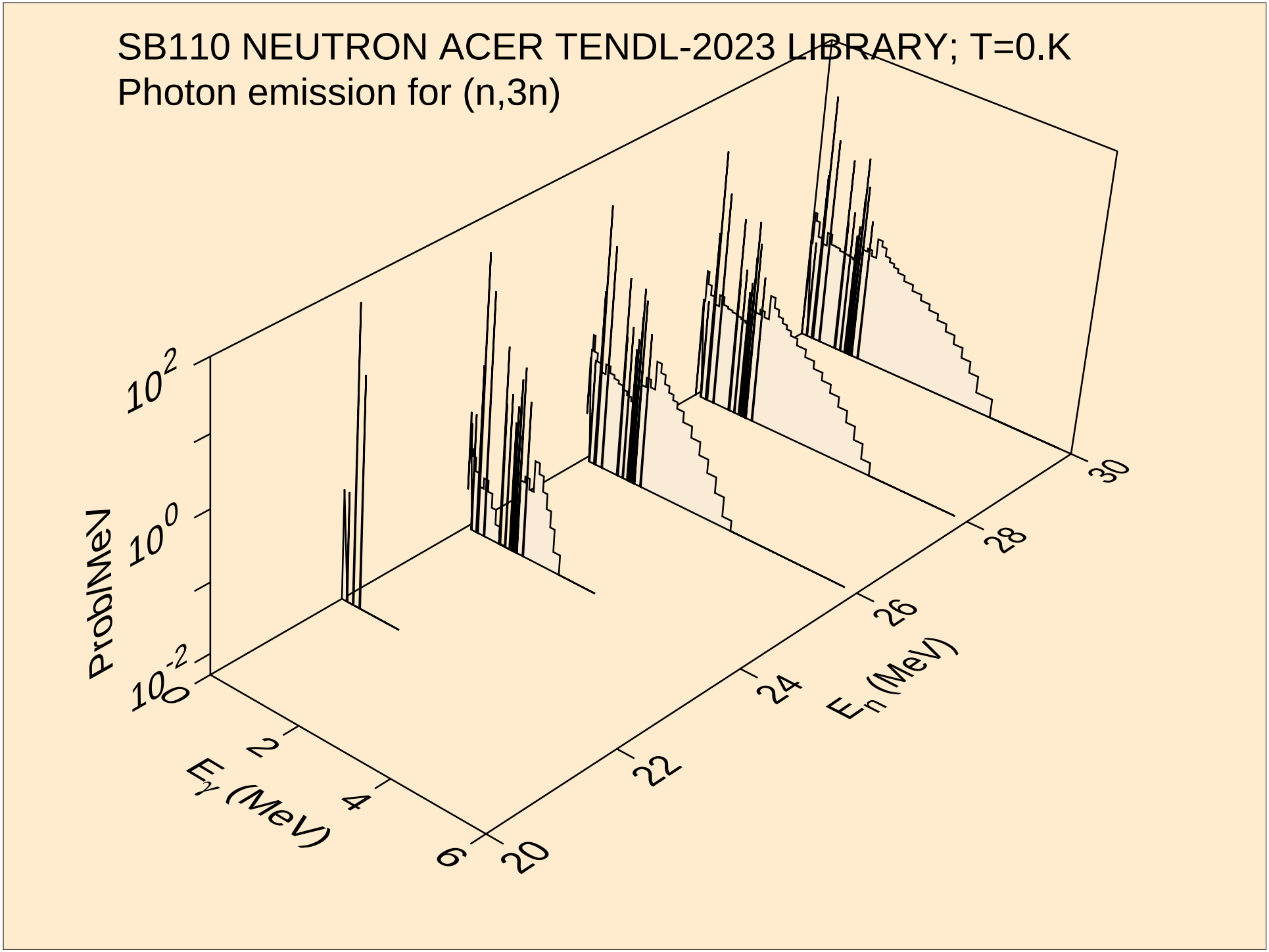

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,npa)
Prob/MeV
10-1
10-3
0
5
10
15
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)

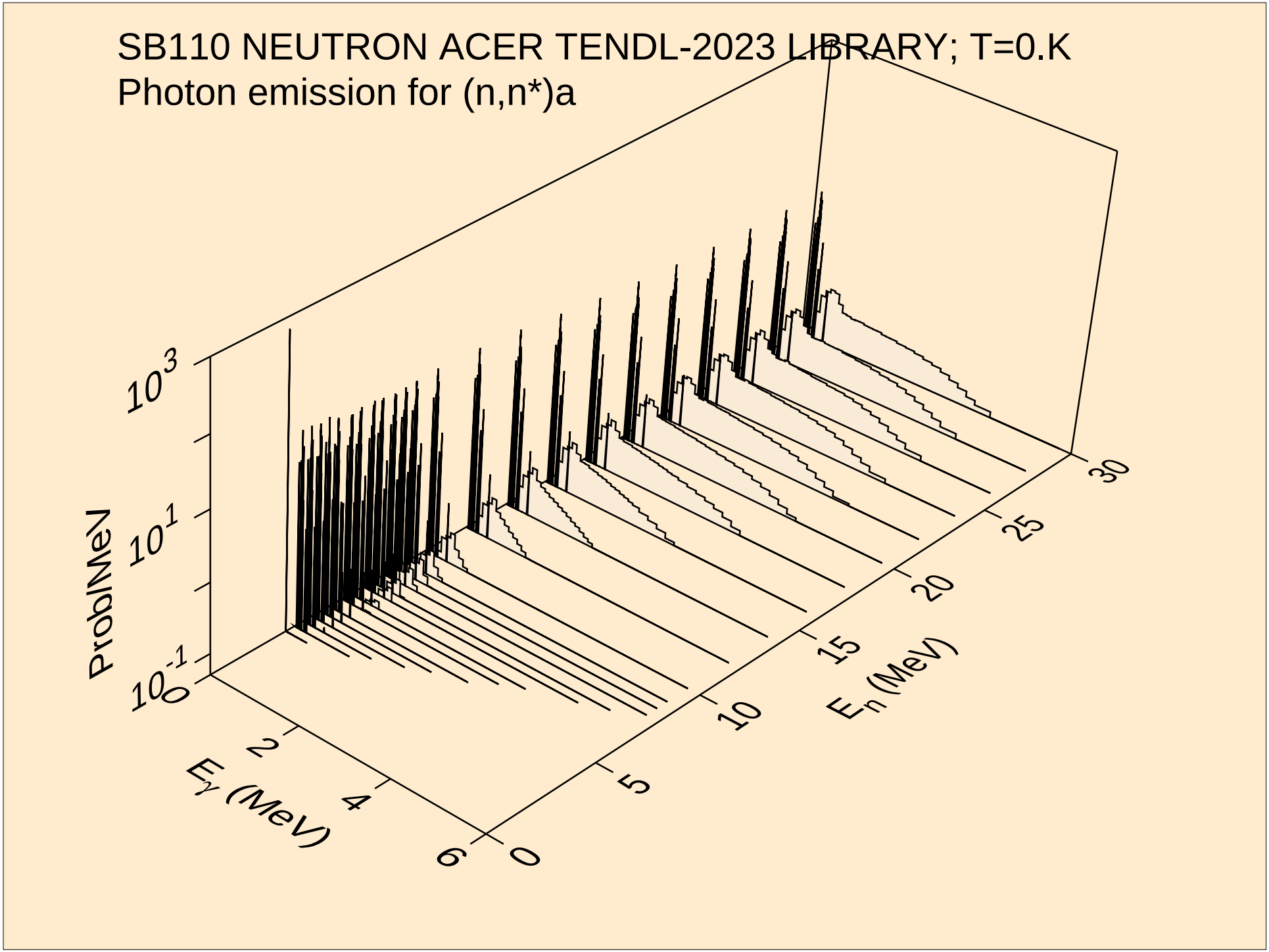

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,n*c)
Prob/MeV
10^3
10^1
0
Sec. Energy
10
20
30
0
5
10
15
20
25
30
Energy (MeV)

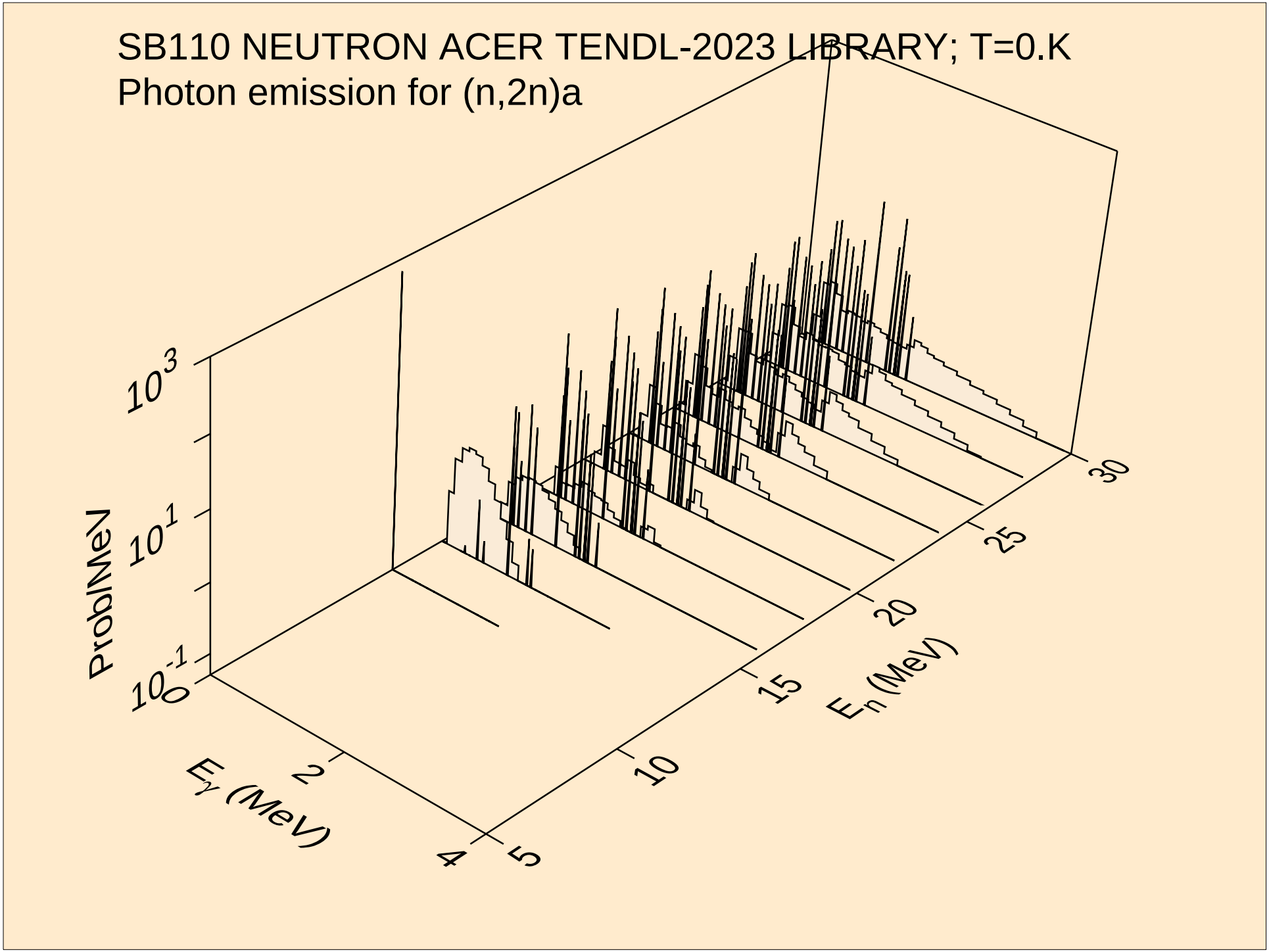

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,x)
Prob/MeV
10^{0}
10^{-2}
10^{-4}
0
20
40
E_γ (MeV)
0
50
100
150
200
E_n (MeV)

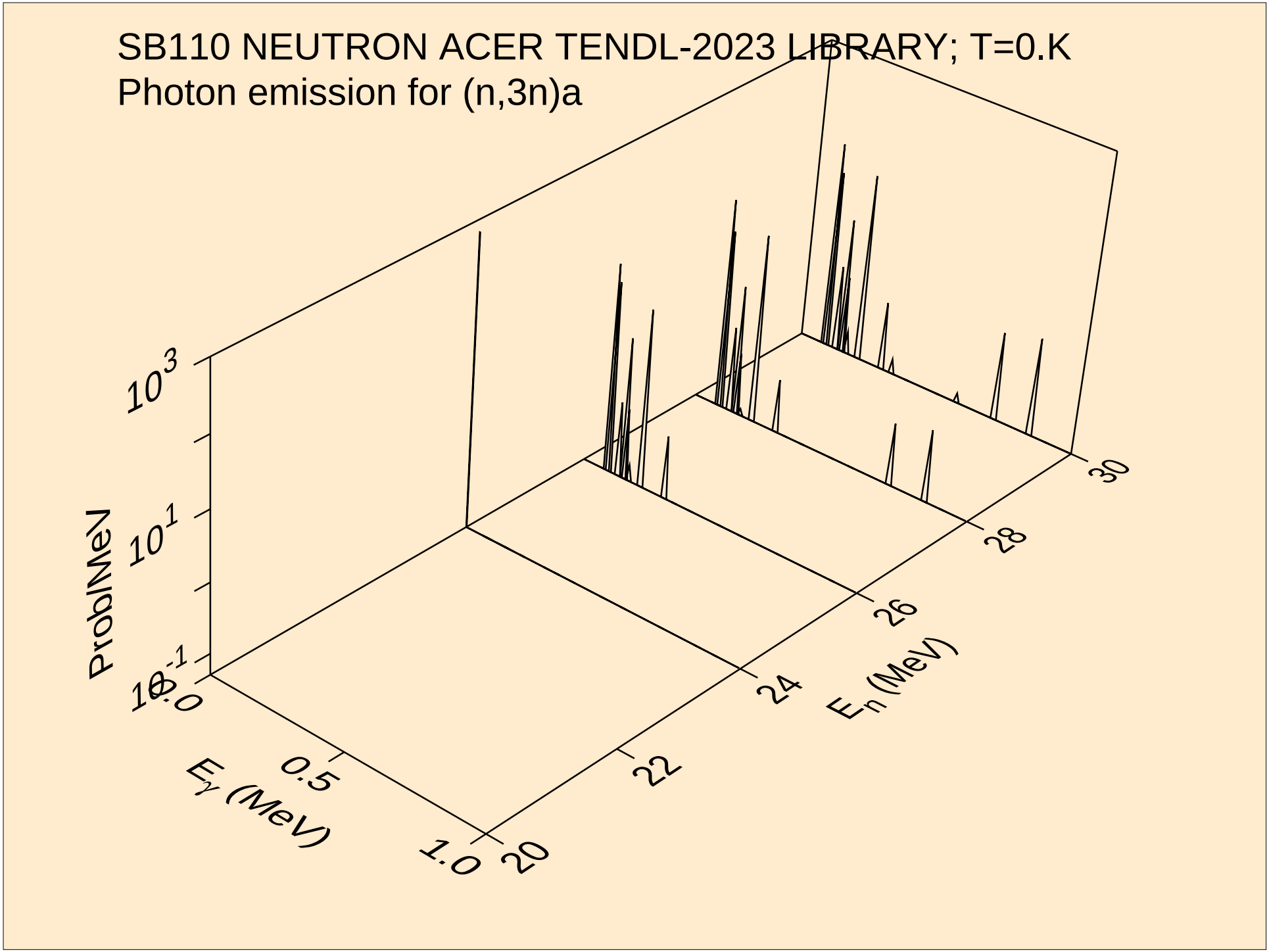

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2nd)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
2
4
E_γ (MeV)
20
22
24
26
28
30
E_n (MeV)

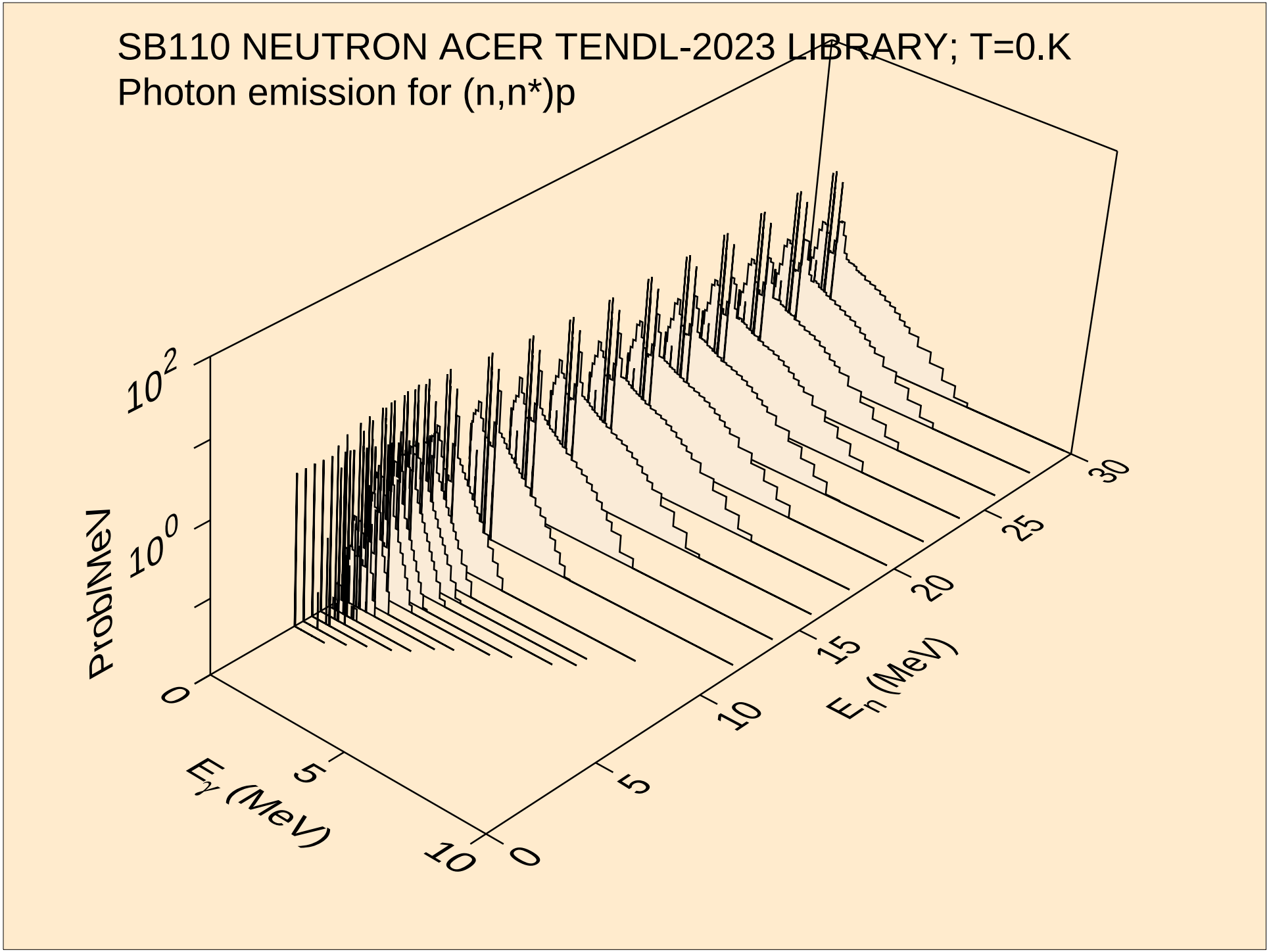

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2n)
Prob/MeV
10^2
10^0
0
2
4
6
E_γ (MeV)
5
10
15
20
25
30
E_n (MeV)

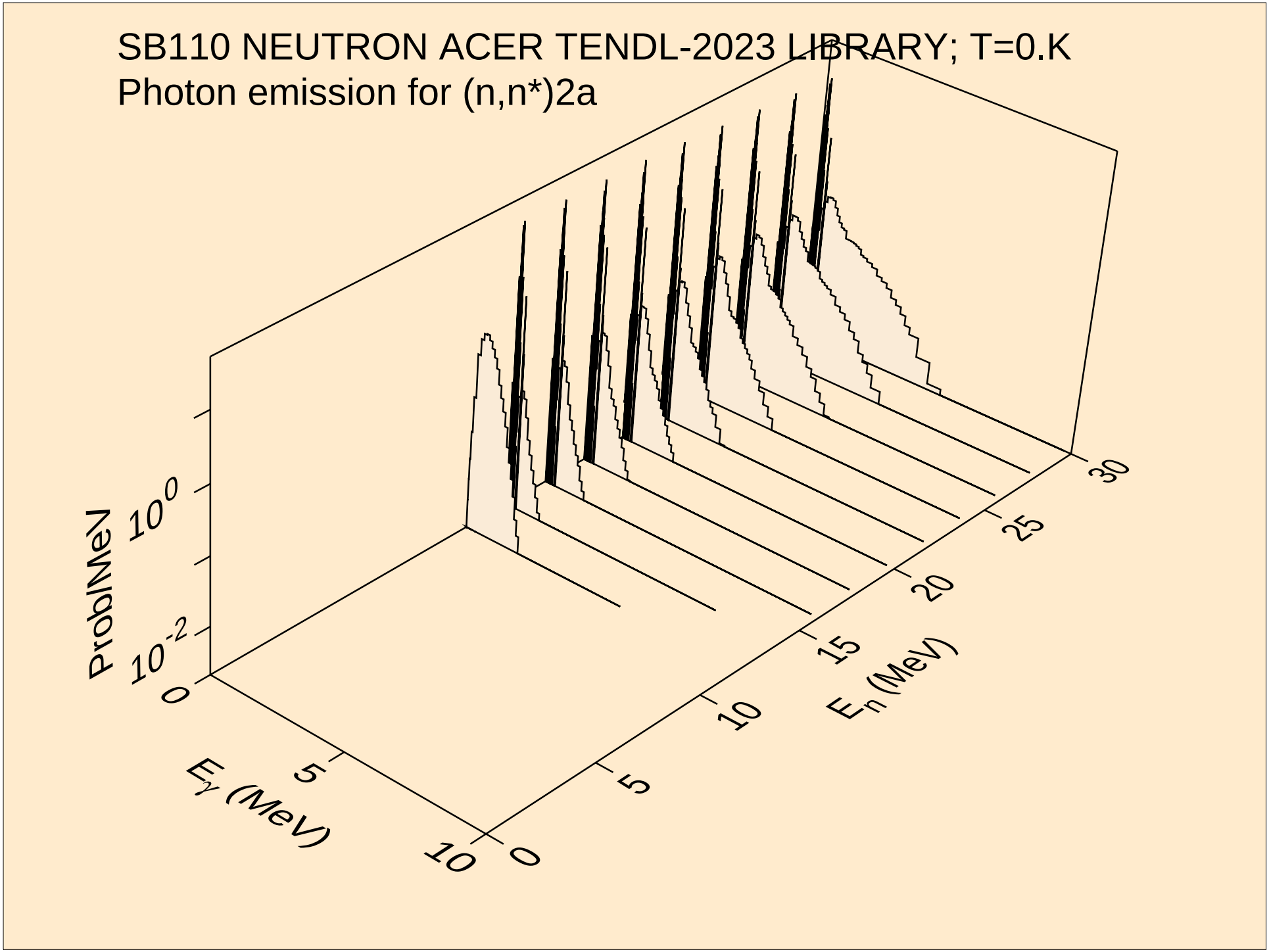

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,3n)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
2
4
6
E_γ (MeV)
20
22
24
26
28
30
E_n (MeV)

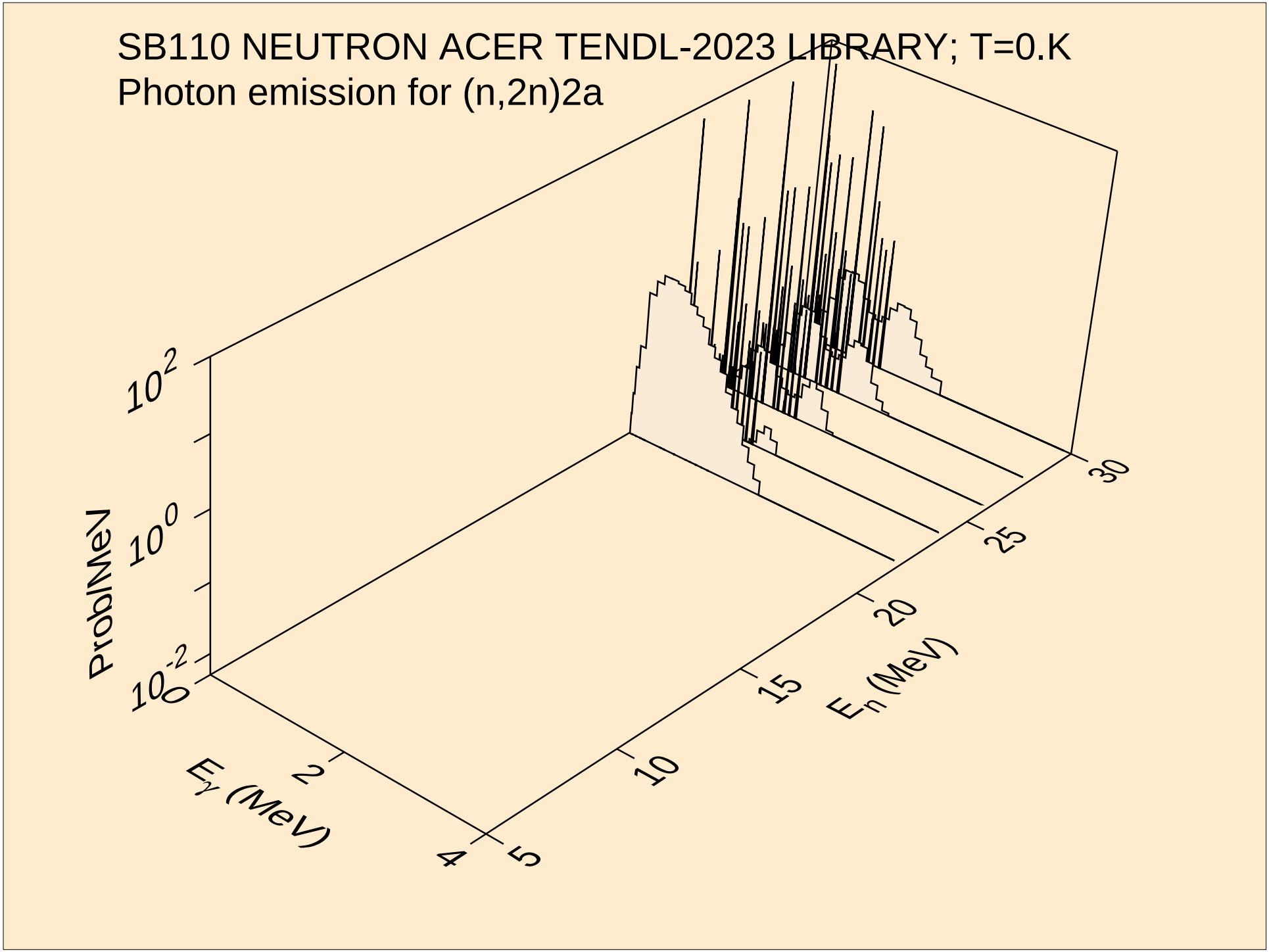

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)a
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
6
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

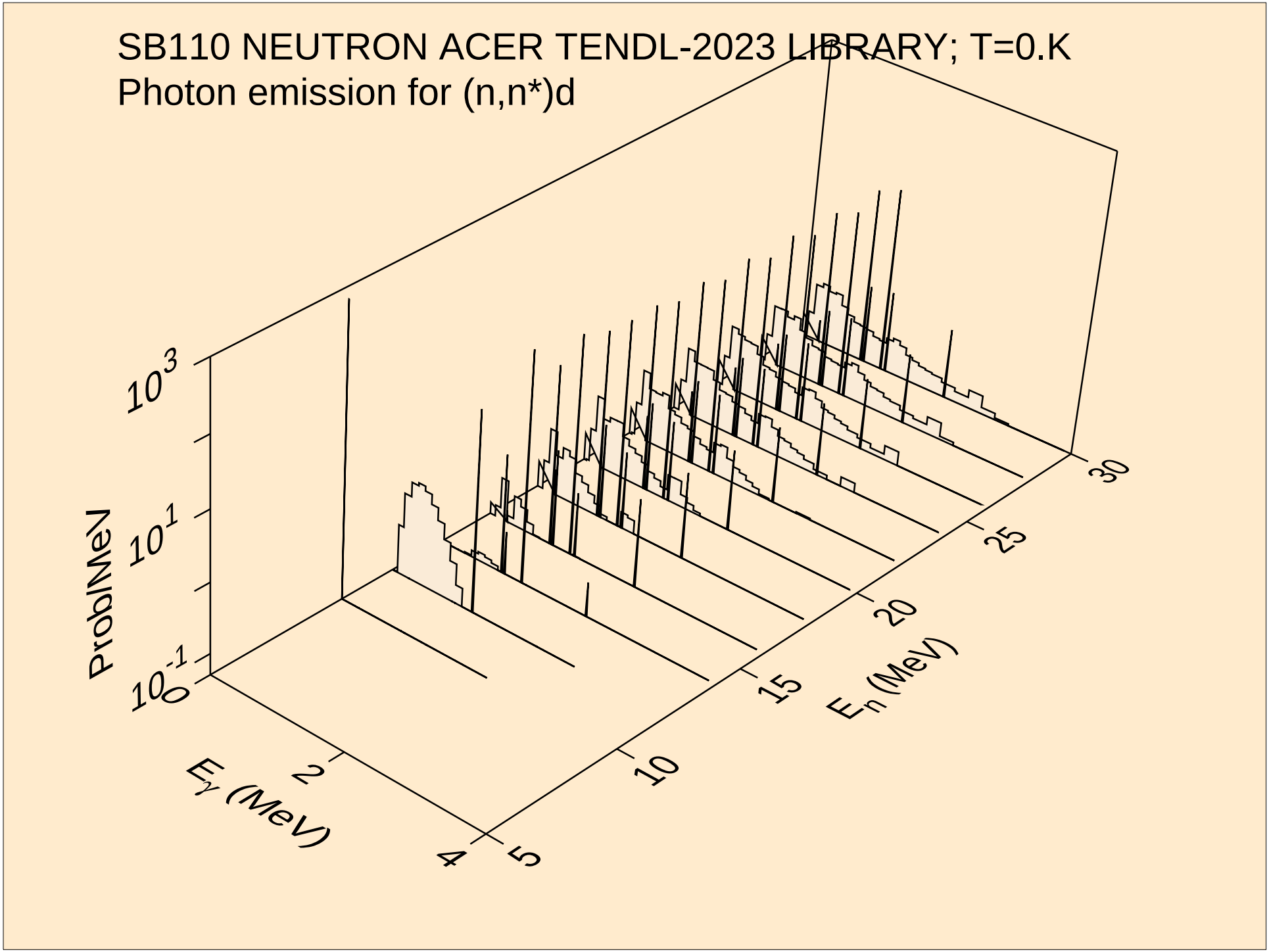

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2n)a
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
E_γ (MeV)
5
10
15
20
25
30
E_n (MeV)

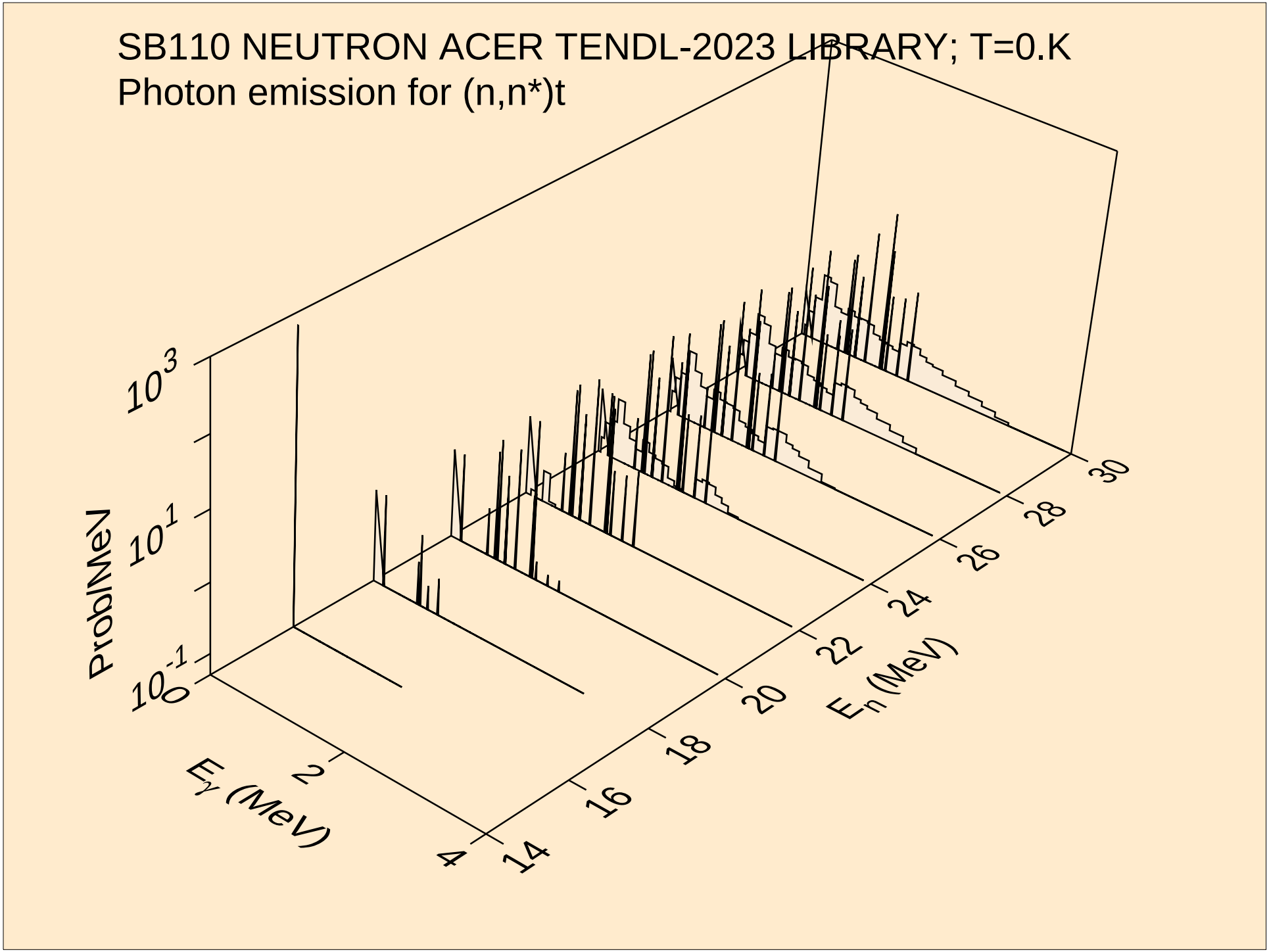

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,3n)a
Prob/MeV
10^3
10^1
10^-1
0.0
0.5
1.0
E_γ (MeV)
20
22
24
26
28
30
E_n (MeV)

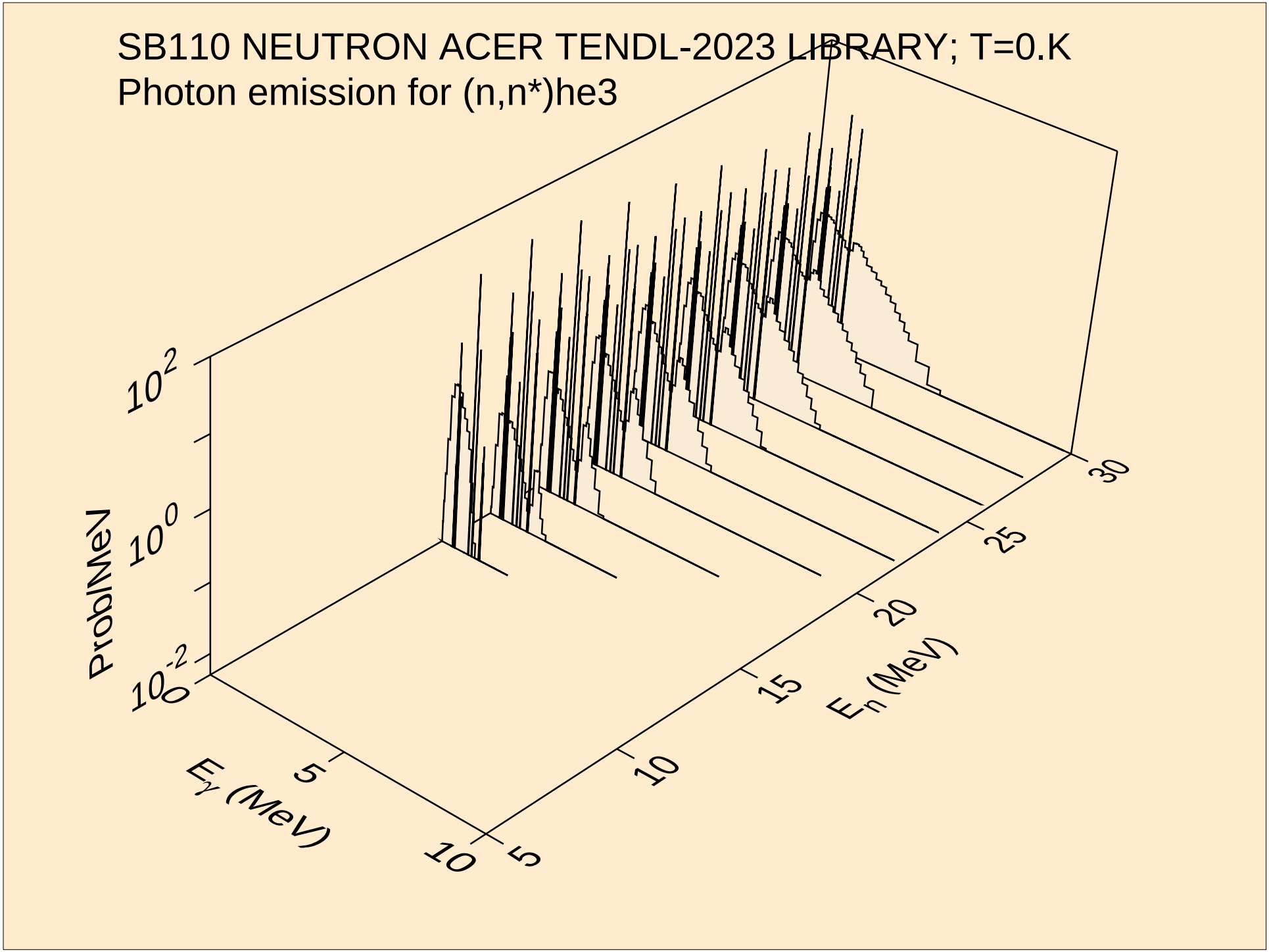

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)p
Prob/MeV
10^2
10^0
0
5
10
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

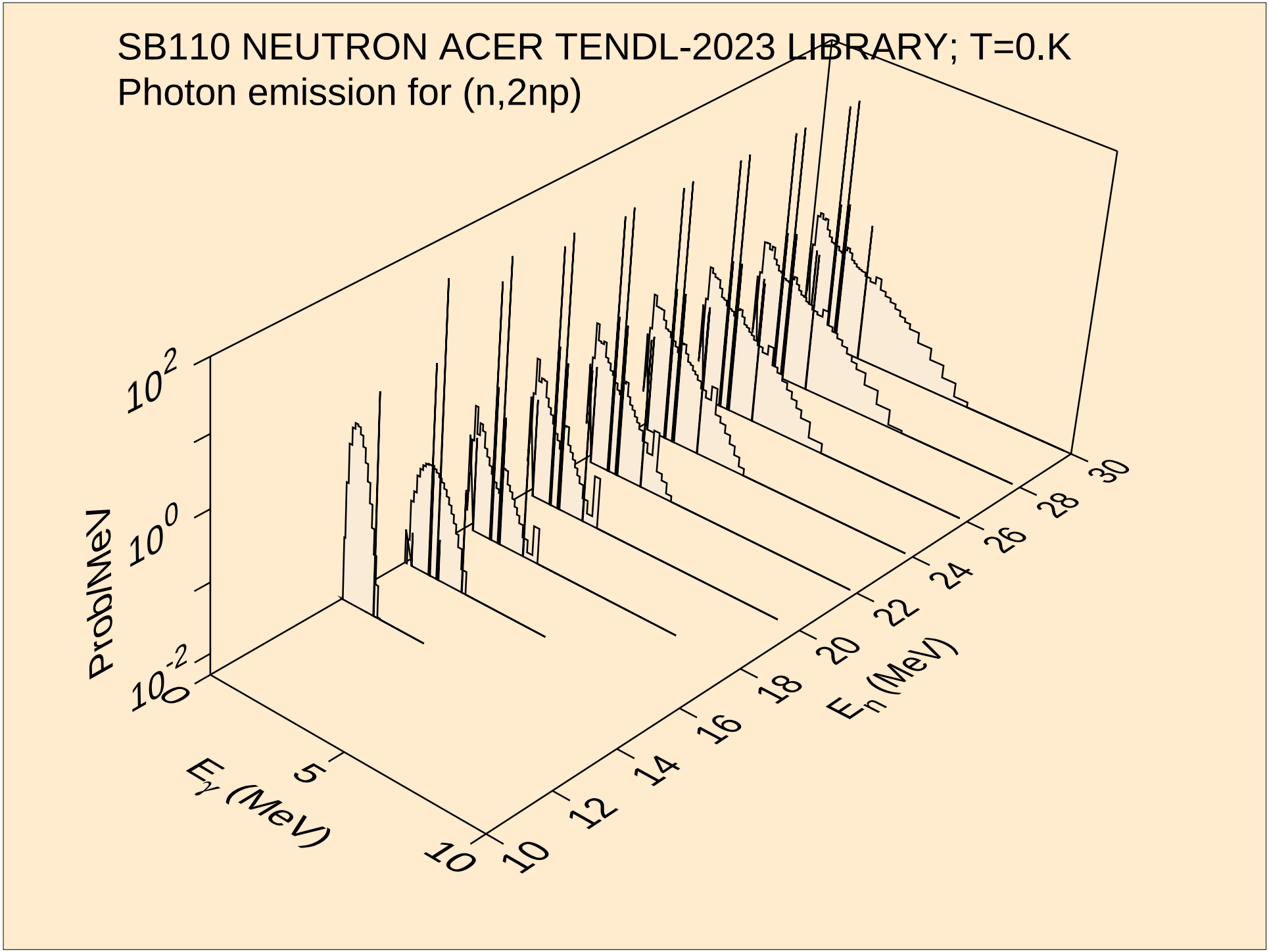

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)2a
Prob/MeV
10^0
10^-2
0
5
10
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

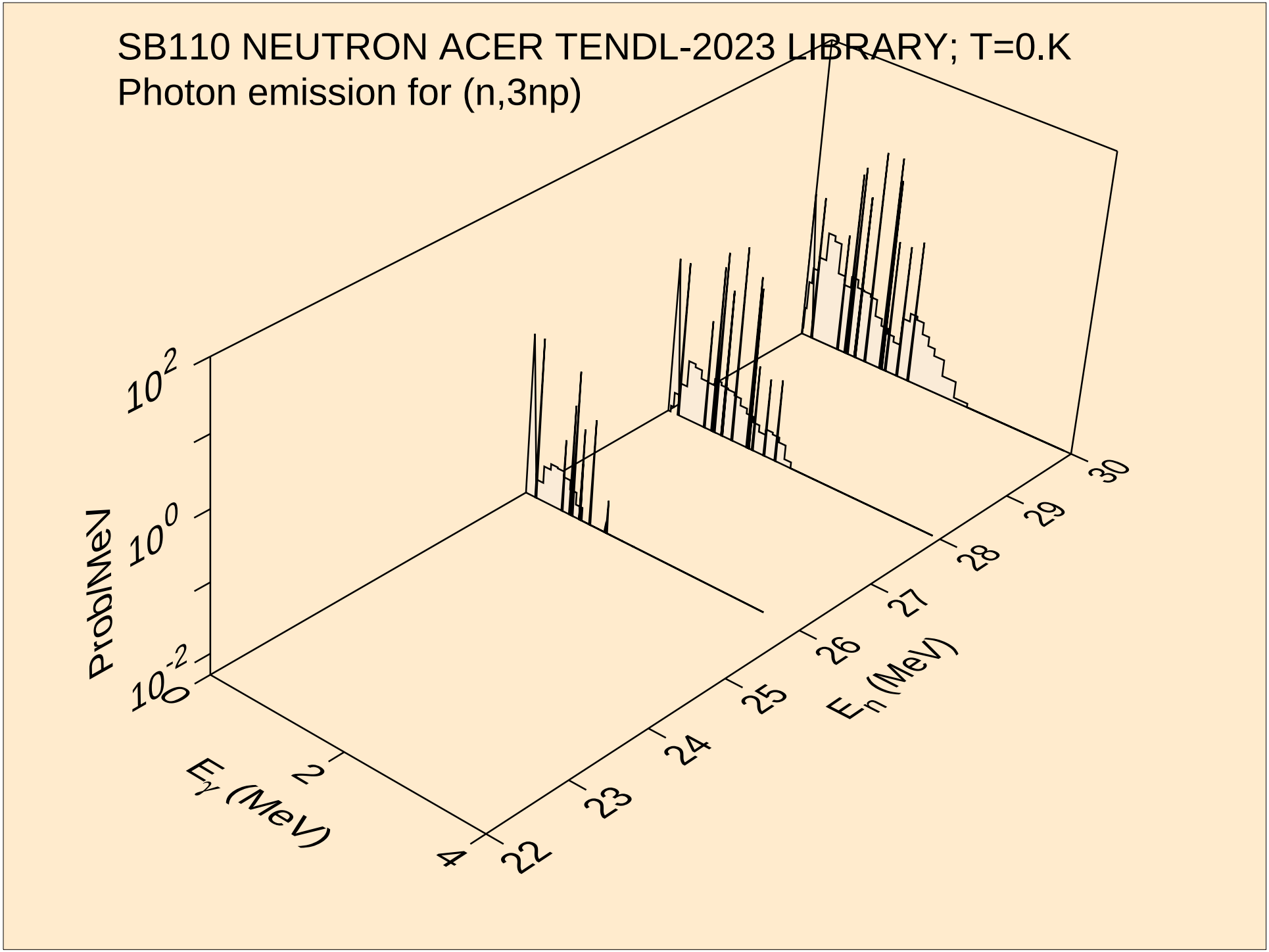

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2n)2a
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
2
4
E_γ (MeV)
5
10
15
20
25
30
E_n (MeV)

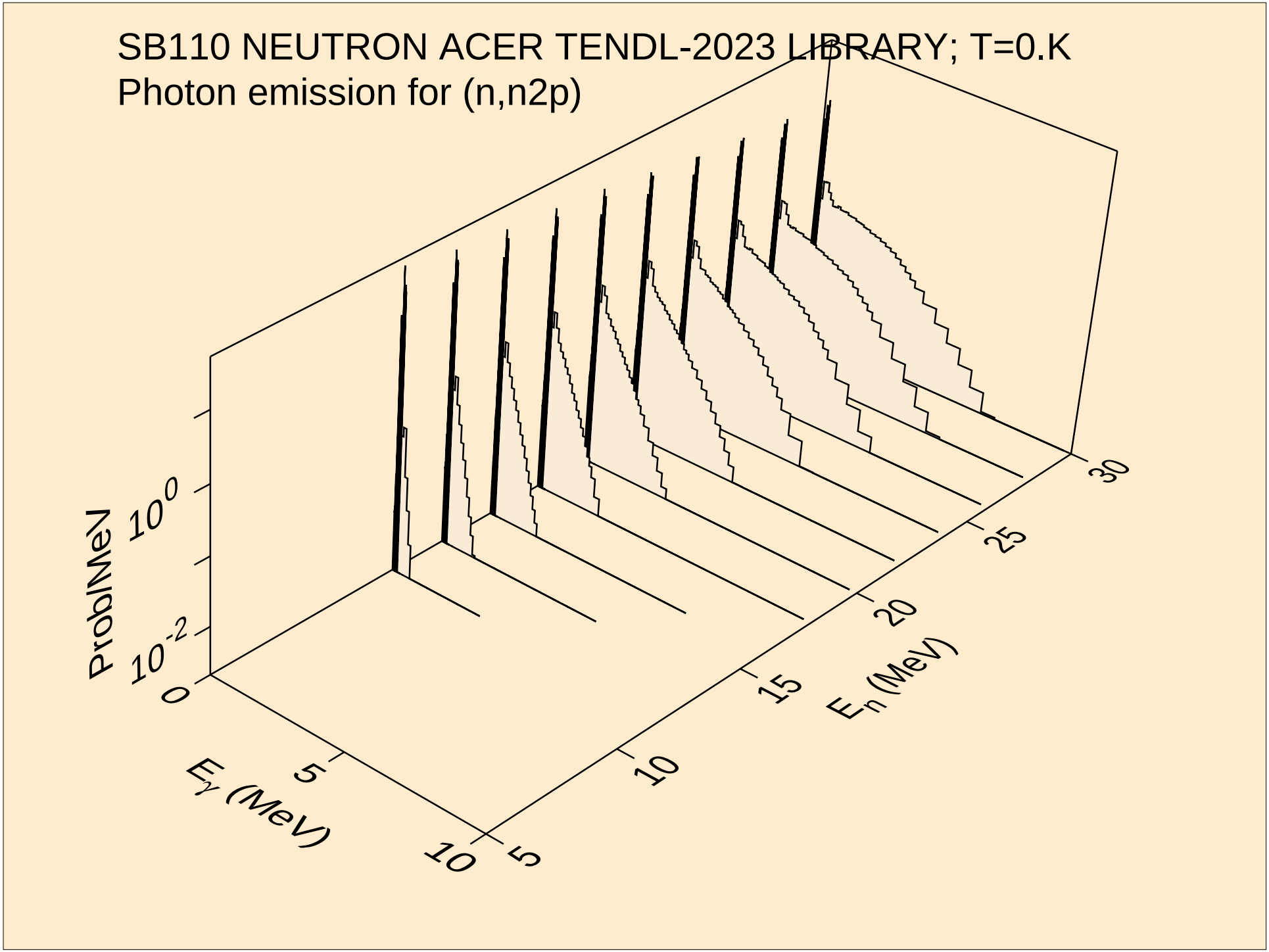

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)d
Prob/MeV
10^3
10^1
10^-1
0
2
4
E_γ (MeV)
5
10
15
20
25
30
E_n (MeV)

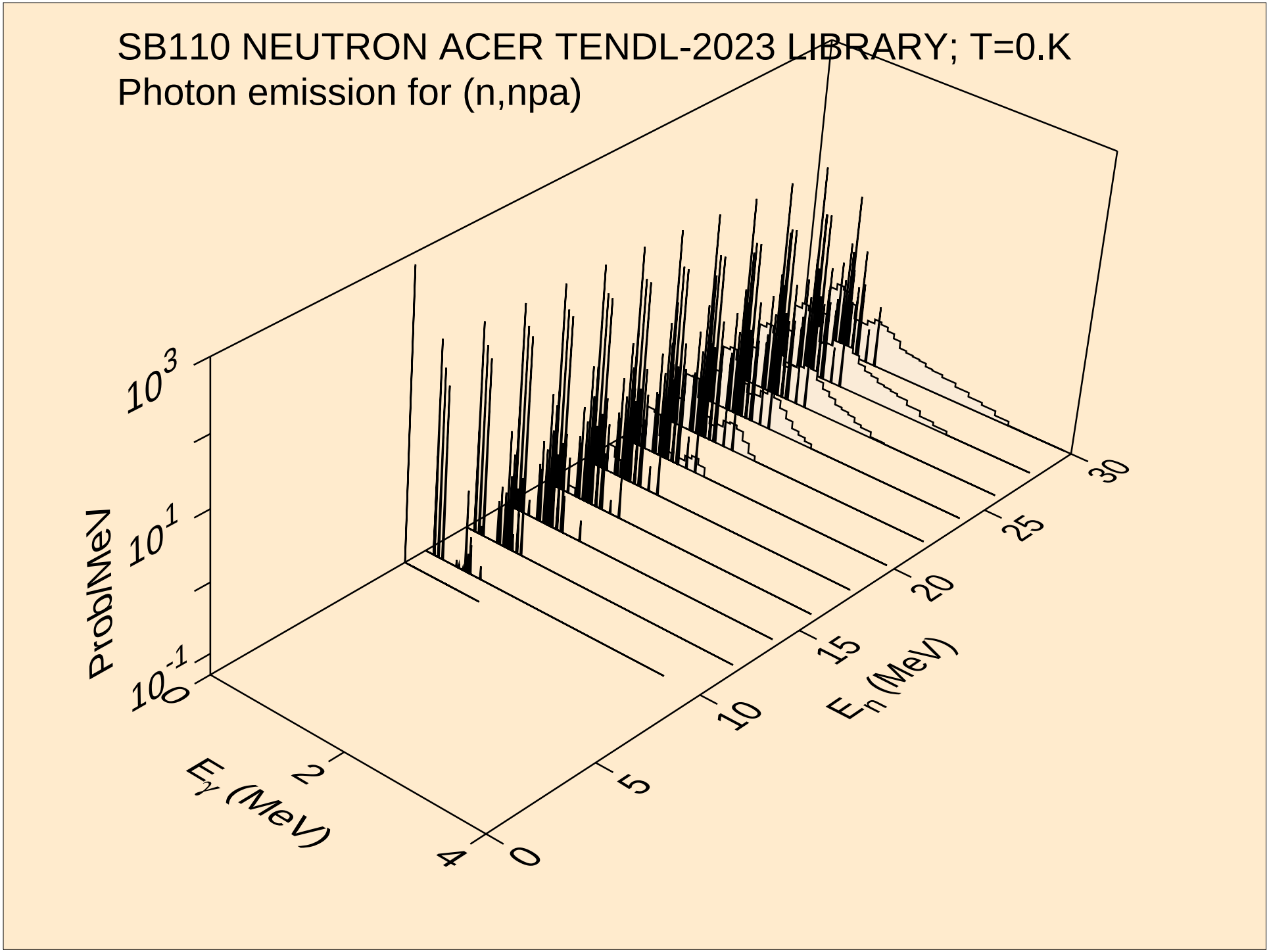

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)t
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
E_γ (MeV)
14
16
18
20
22
24
26
28
30
E_n (MeV)

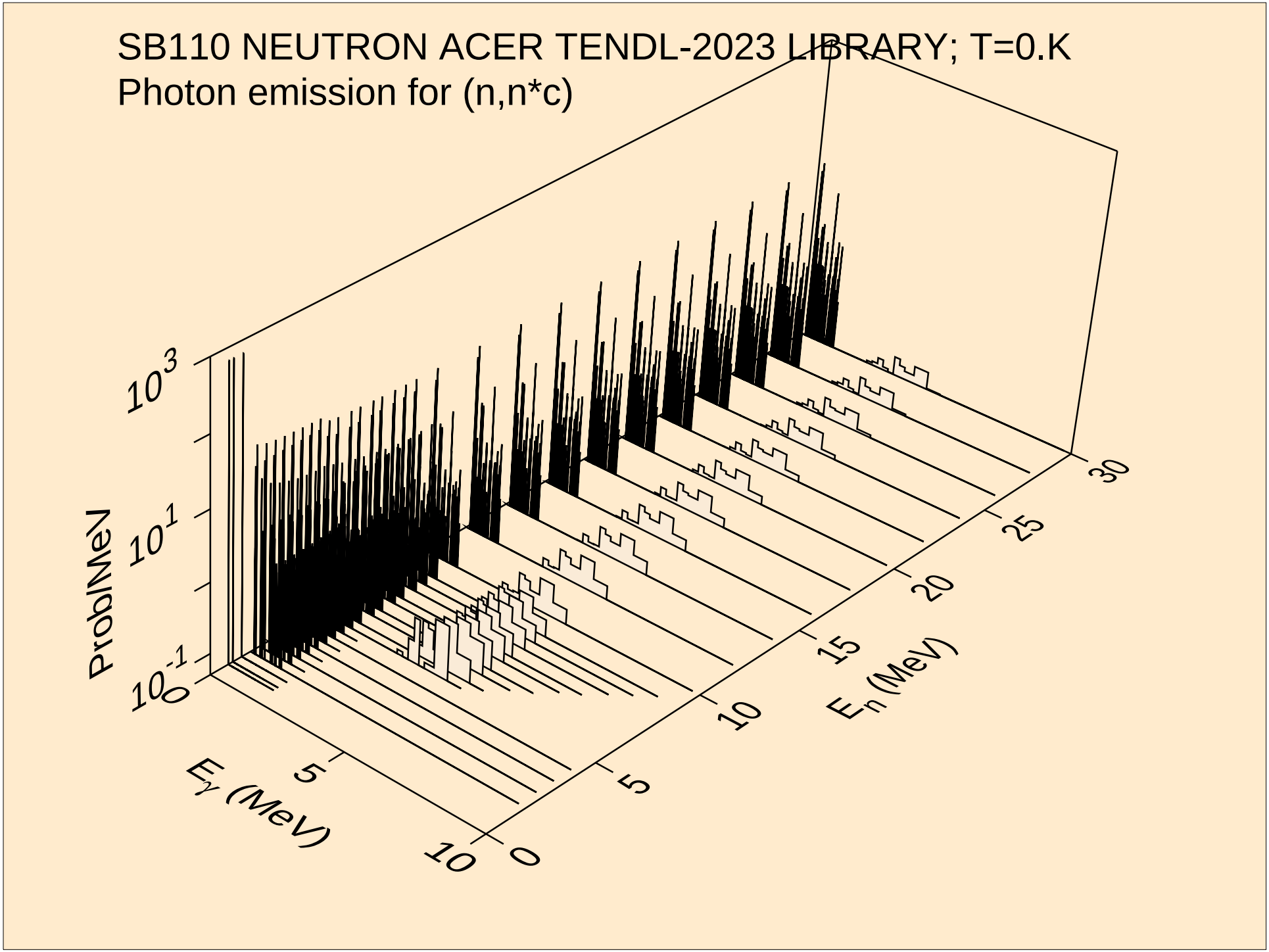

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)he3
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
5
10
15
20
25
30
E_n (MeV)

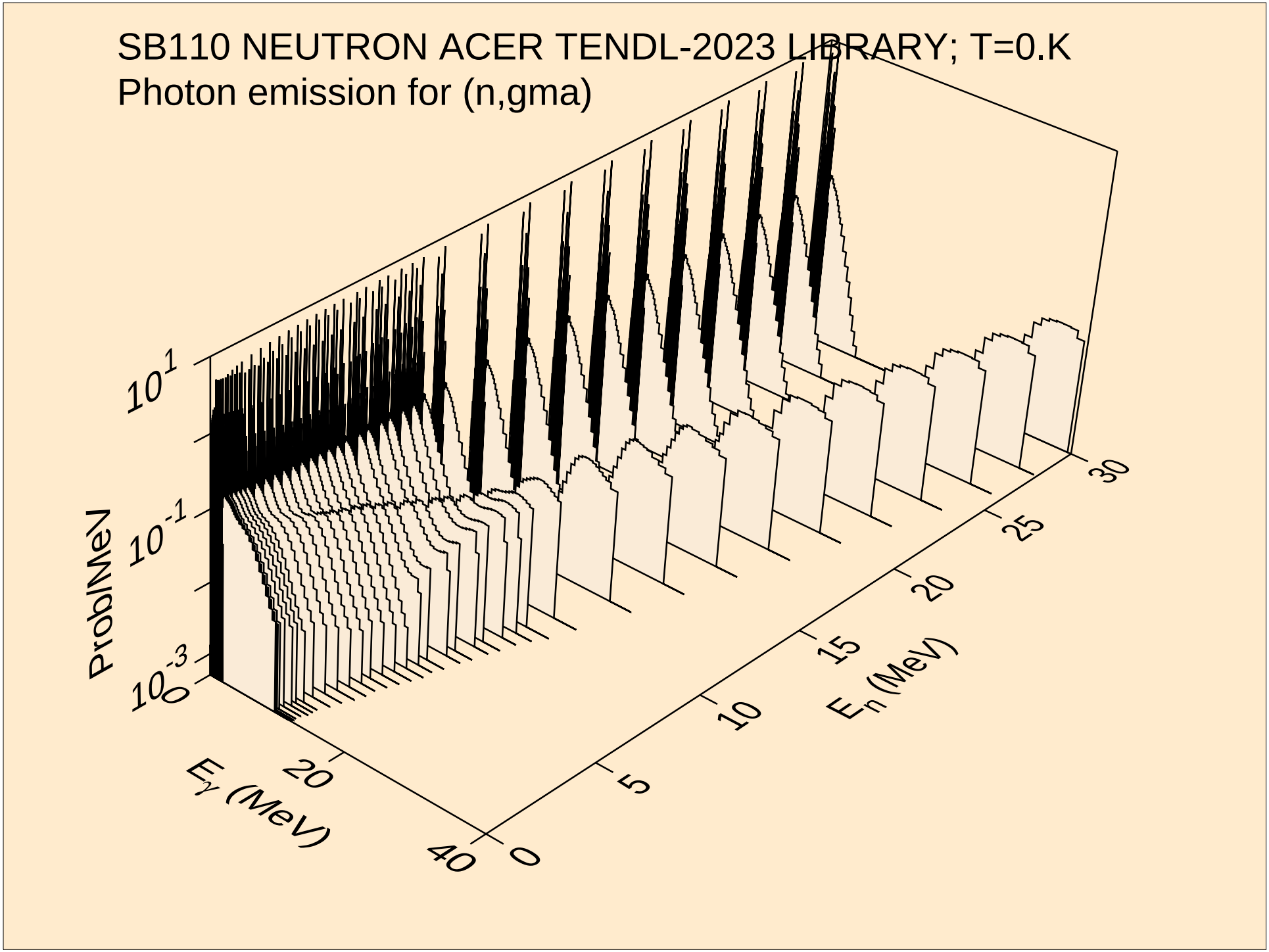

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2np)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
10
12
14
16
18
20
22
24
26
28
30
E_n (MeV)

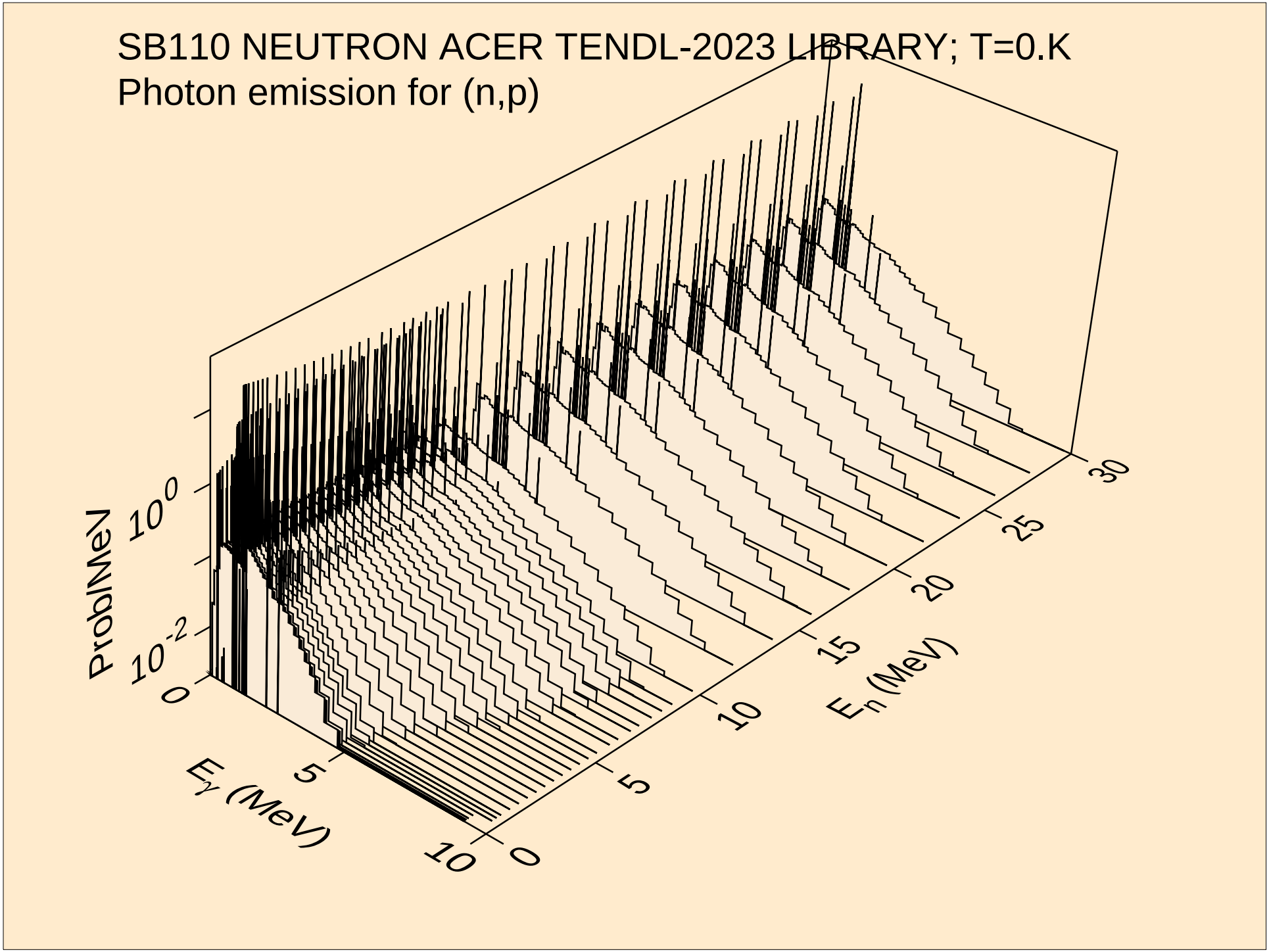

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,3np)
Prob/MeV
10^{2}
10^{0}
10^{-2}
E_γ (MeV)
2
4
E_n (MeV)
22
23
24
25
26
27
28
29
30

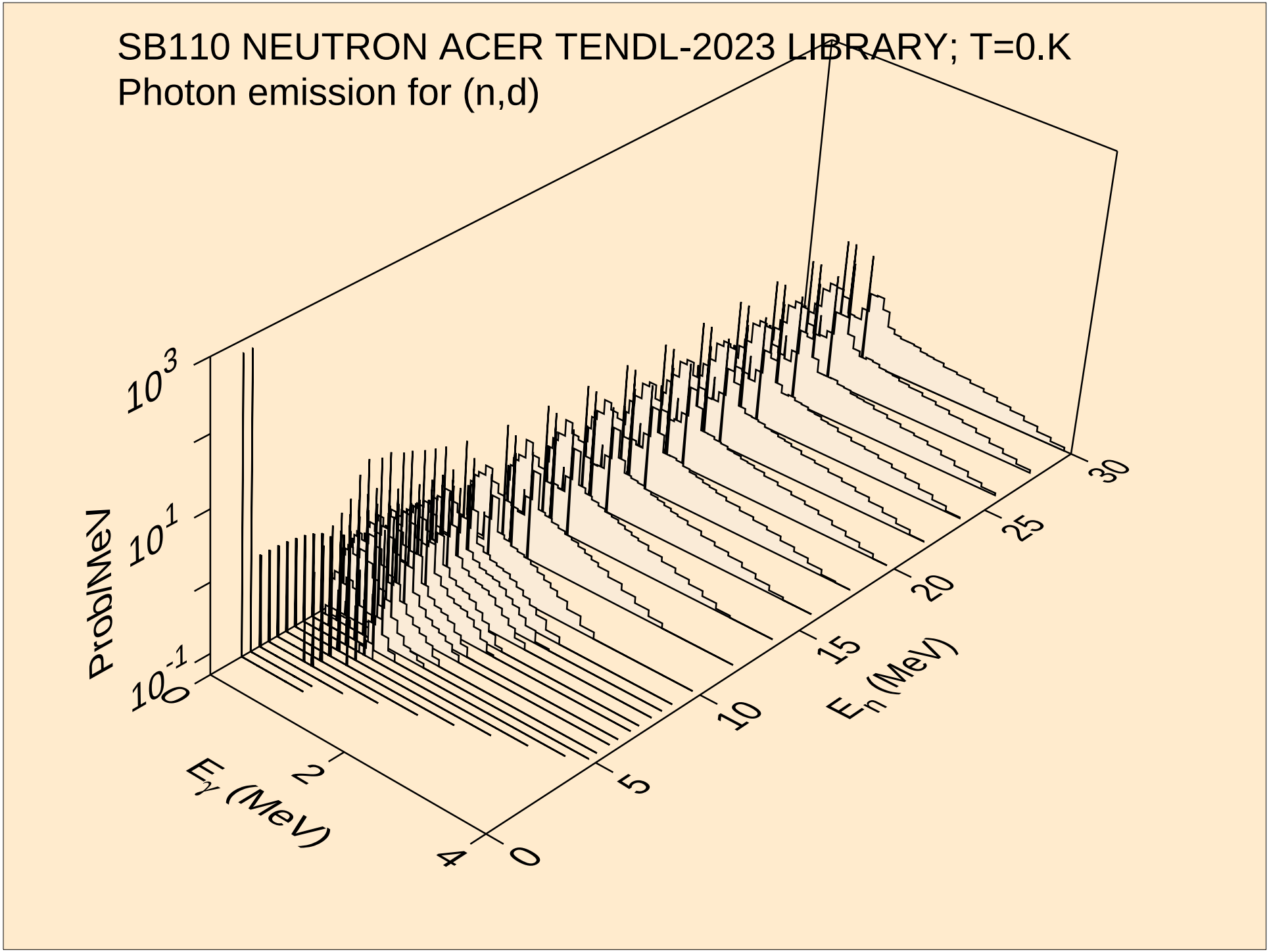

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n2p)
Prob/MeV
10^0
10^-2
0
5
10
E_γ (MeV)
5
10
15
20
25
30
E_n (MeV)

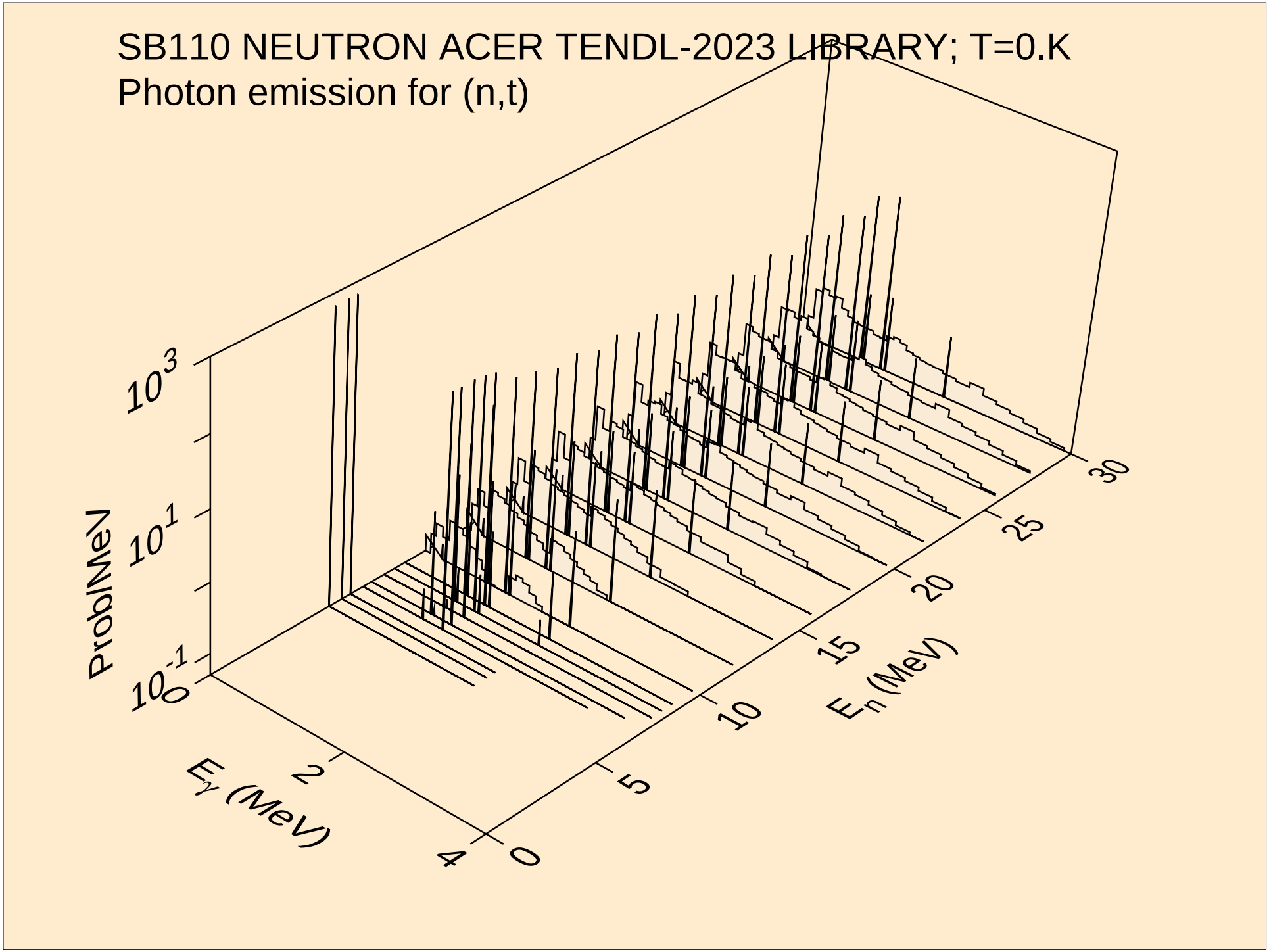

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,npa)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

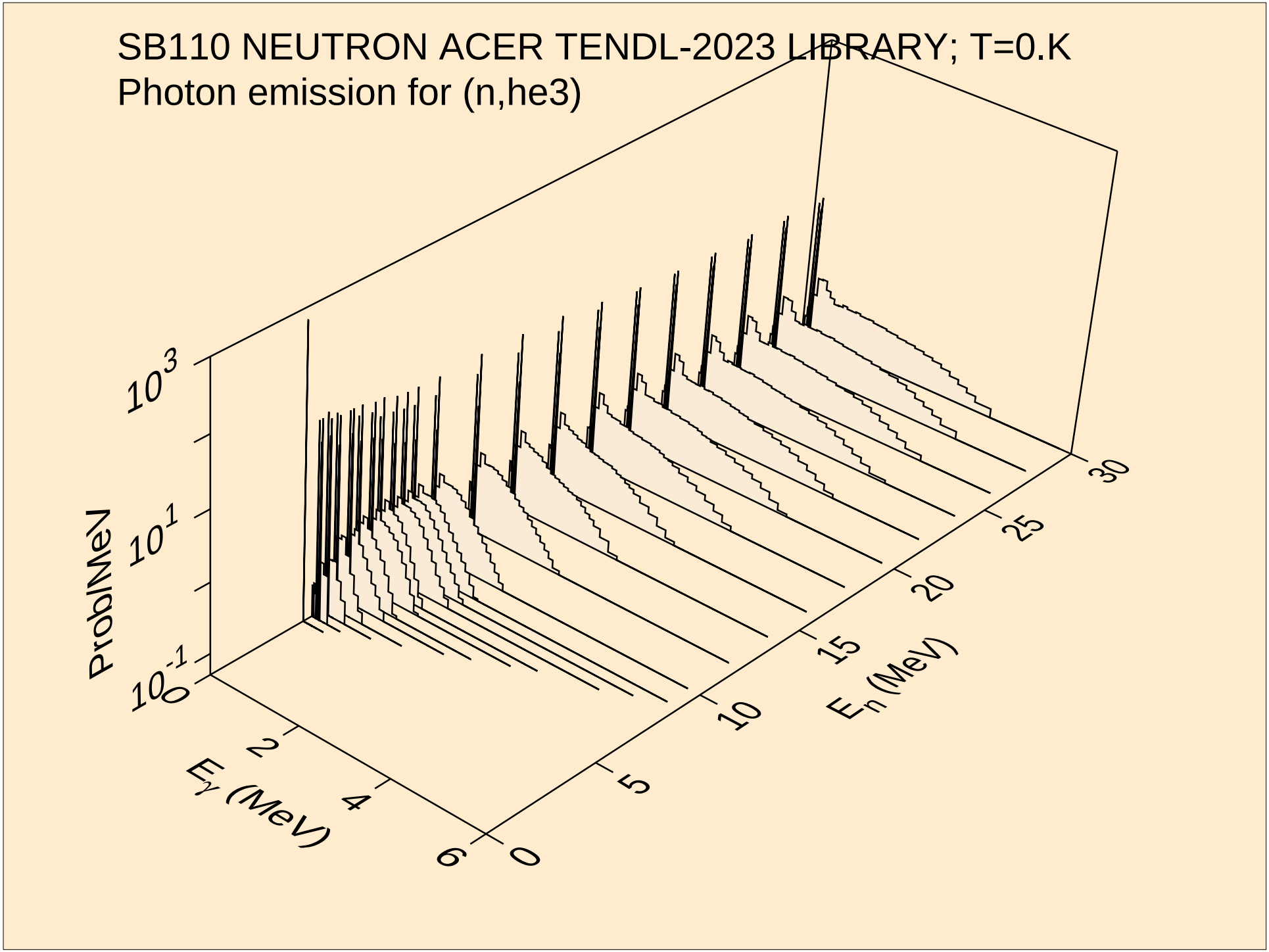

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*c)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
5
10
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

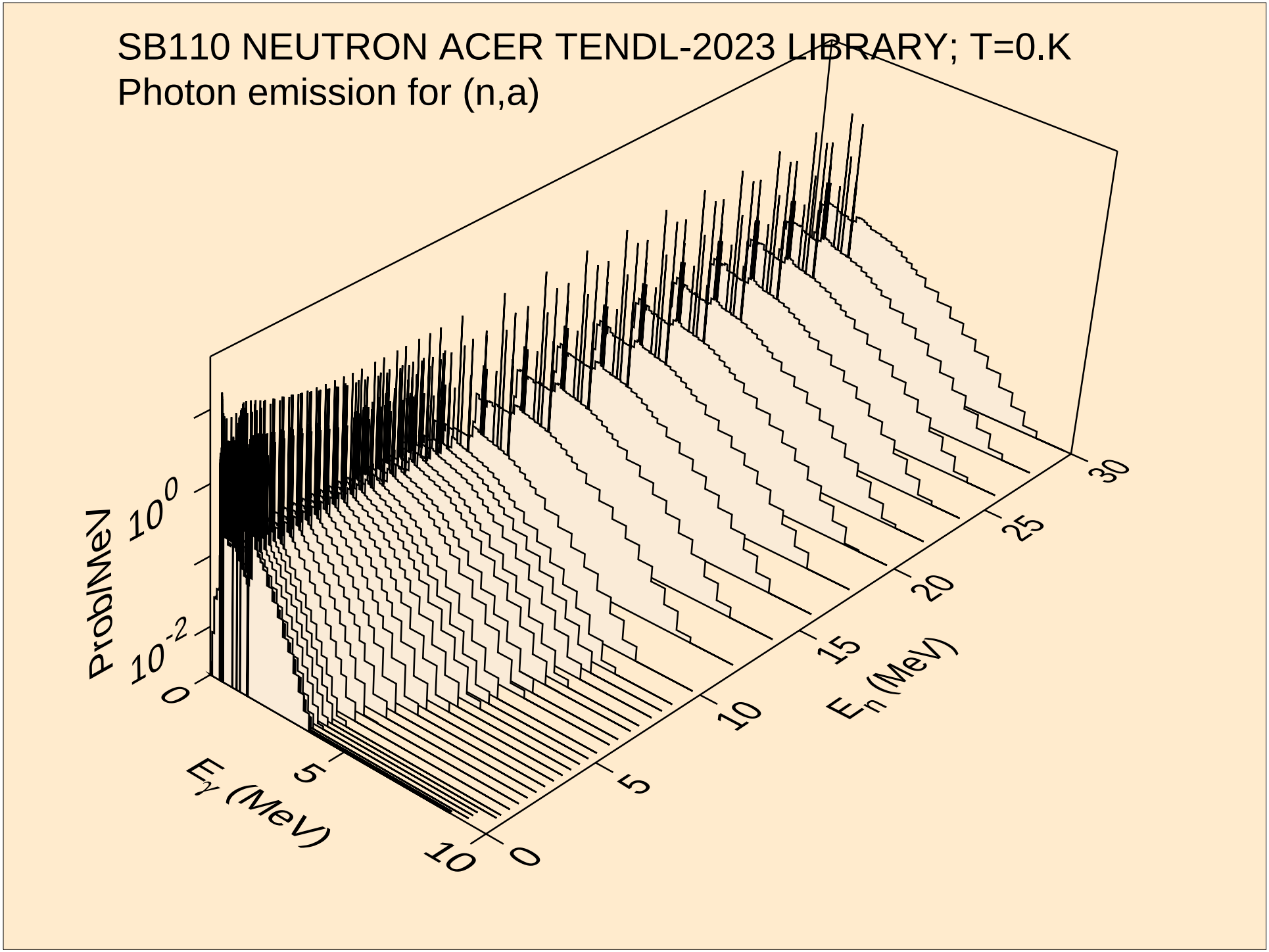

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,gma)
Prob/MeV
10^{1}
10^{-1}
10^{-3}
0
20
40
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

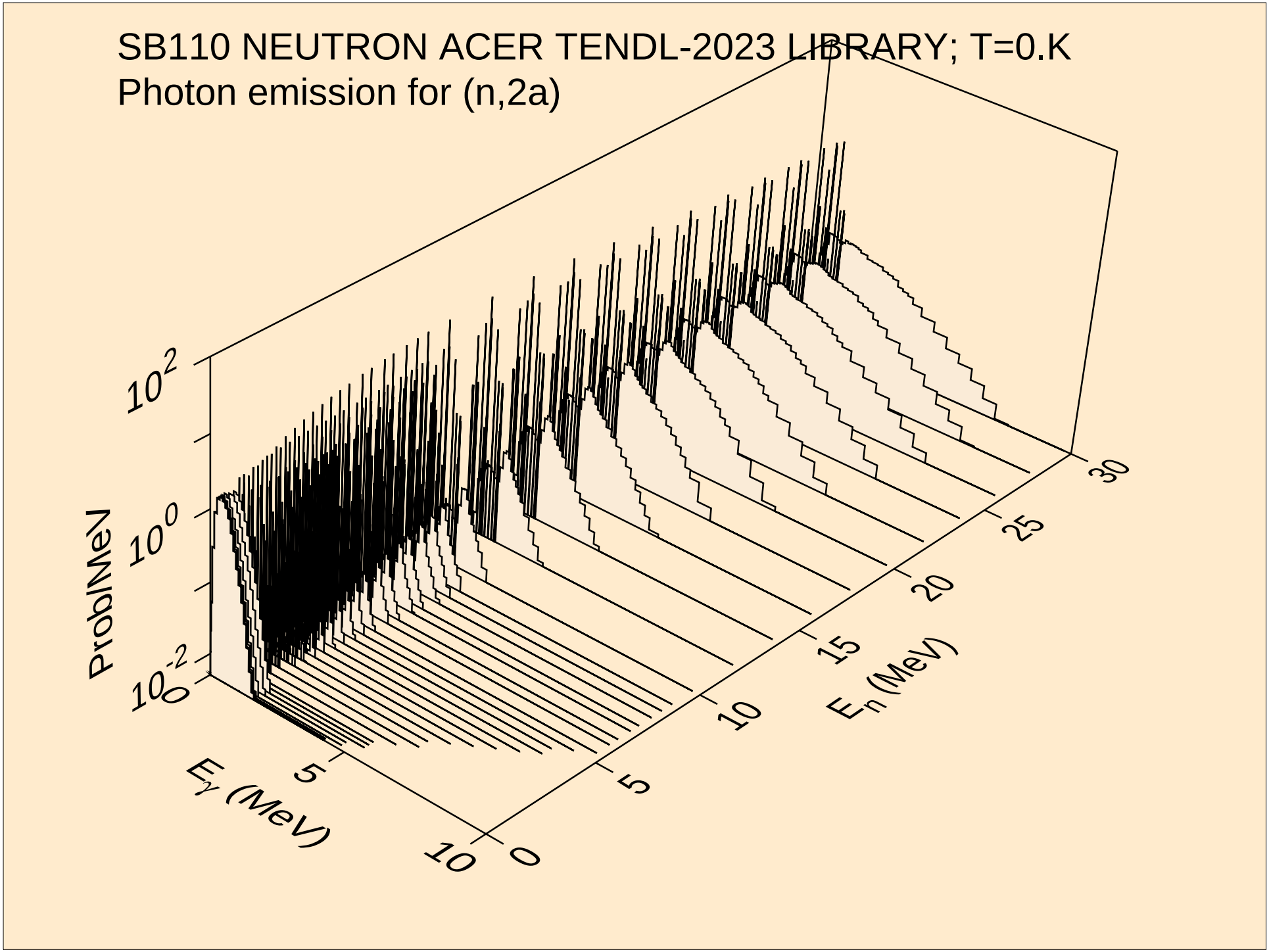

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,p)
Prob/MeV
10^0
10^-2
0
5
10
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

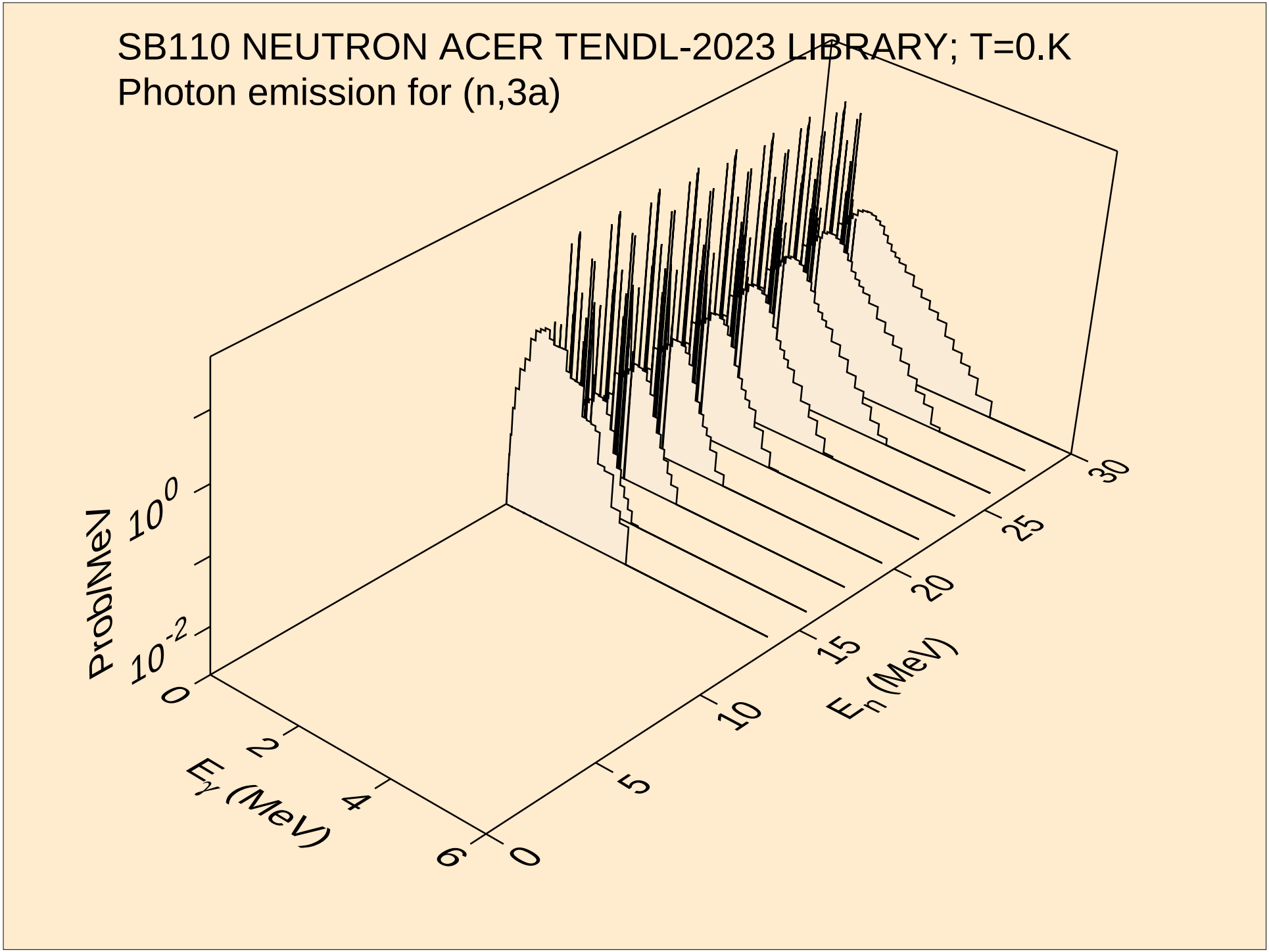

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,d)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

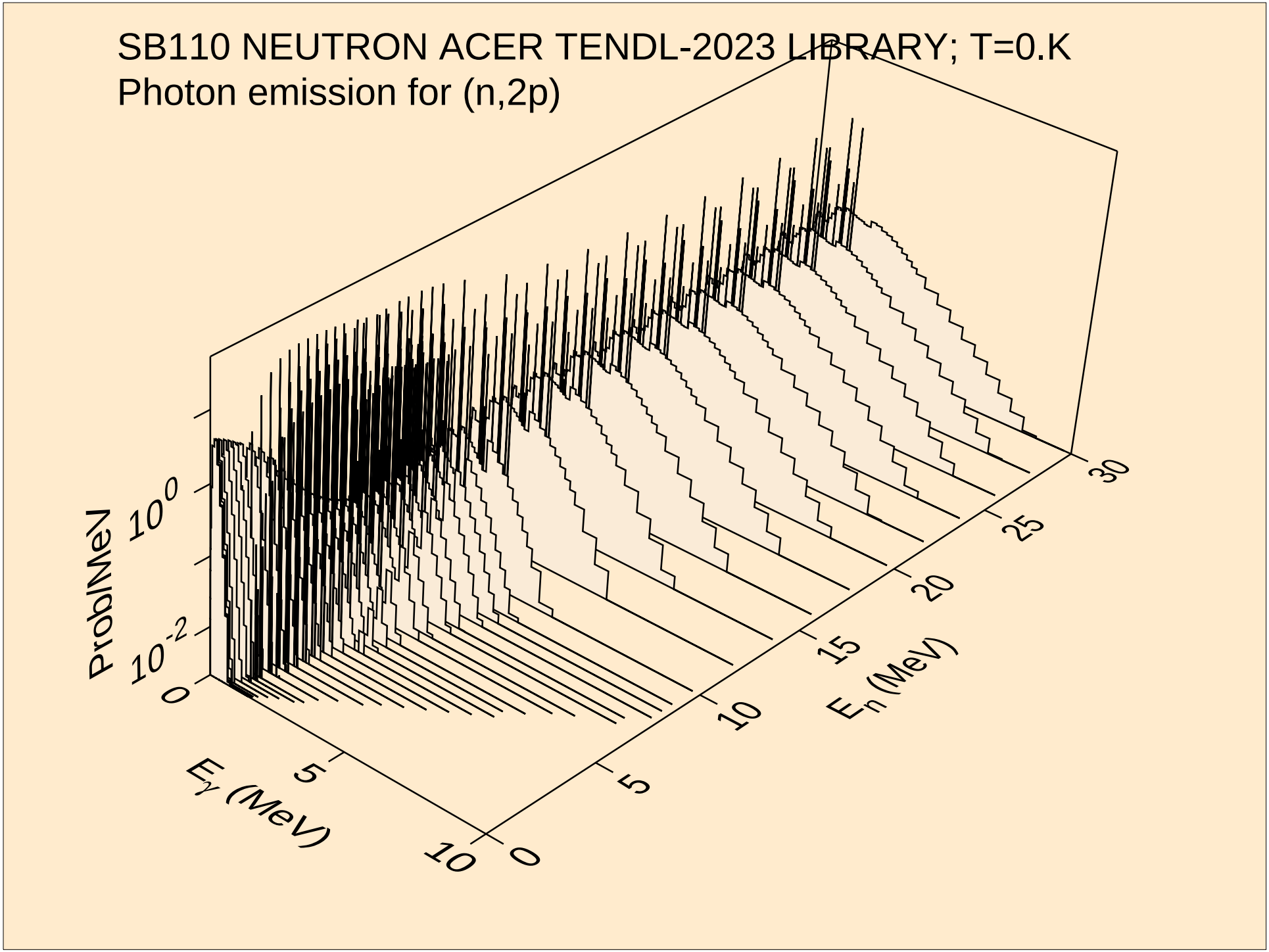

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,t)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

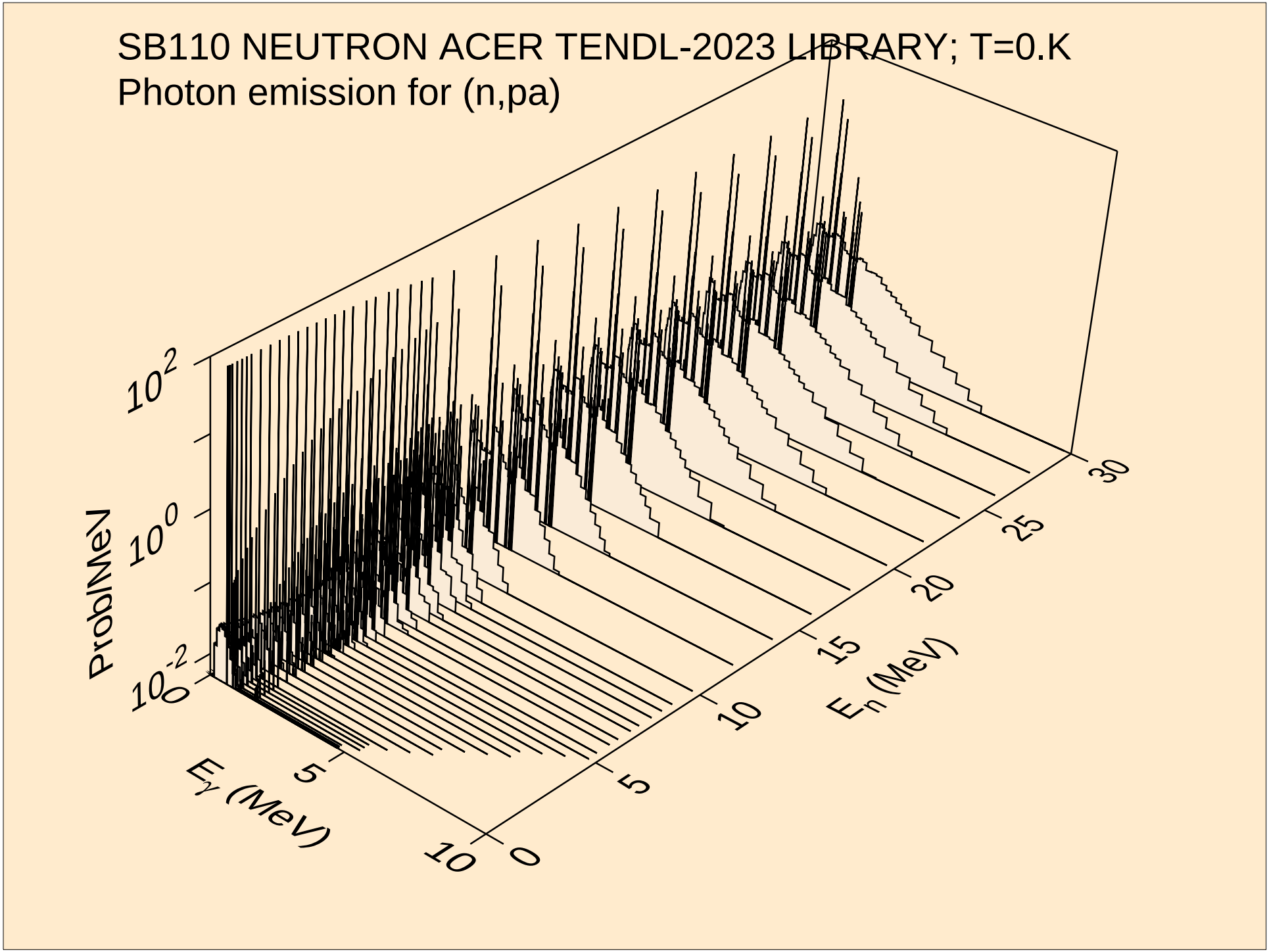

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,he3)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
6
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

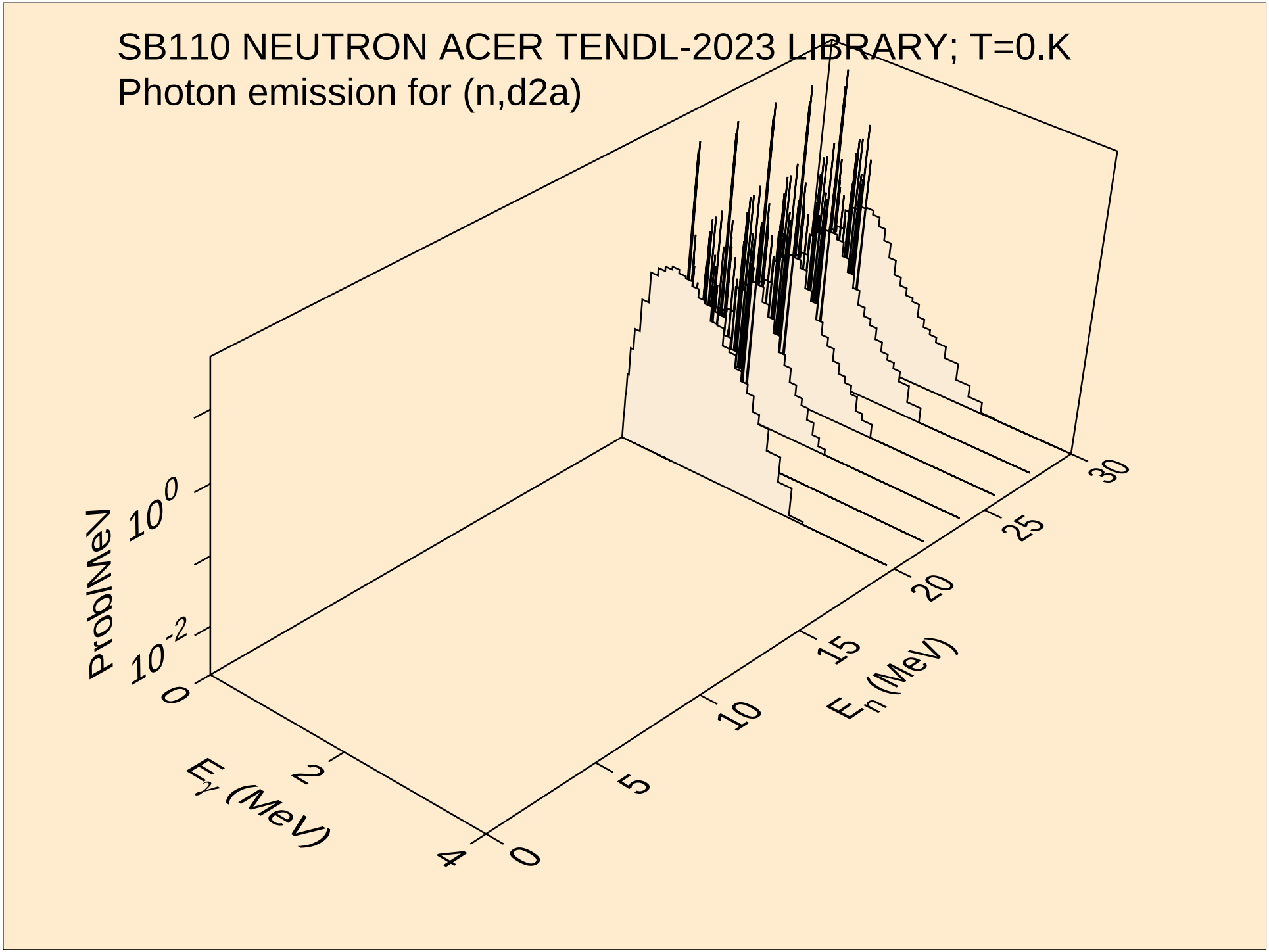

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,a)
Prob/MeV
10^0
10^-2
0
5
10
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

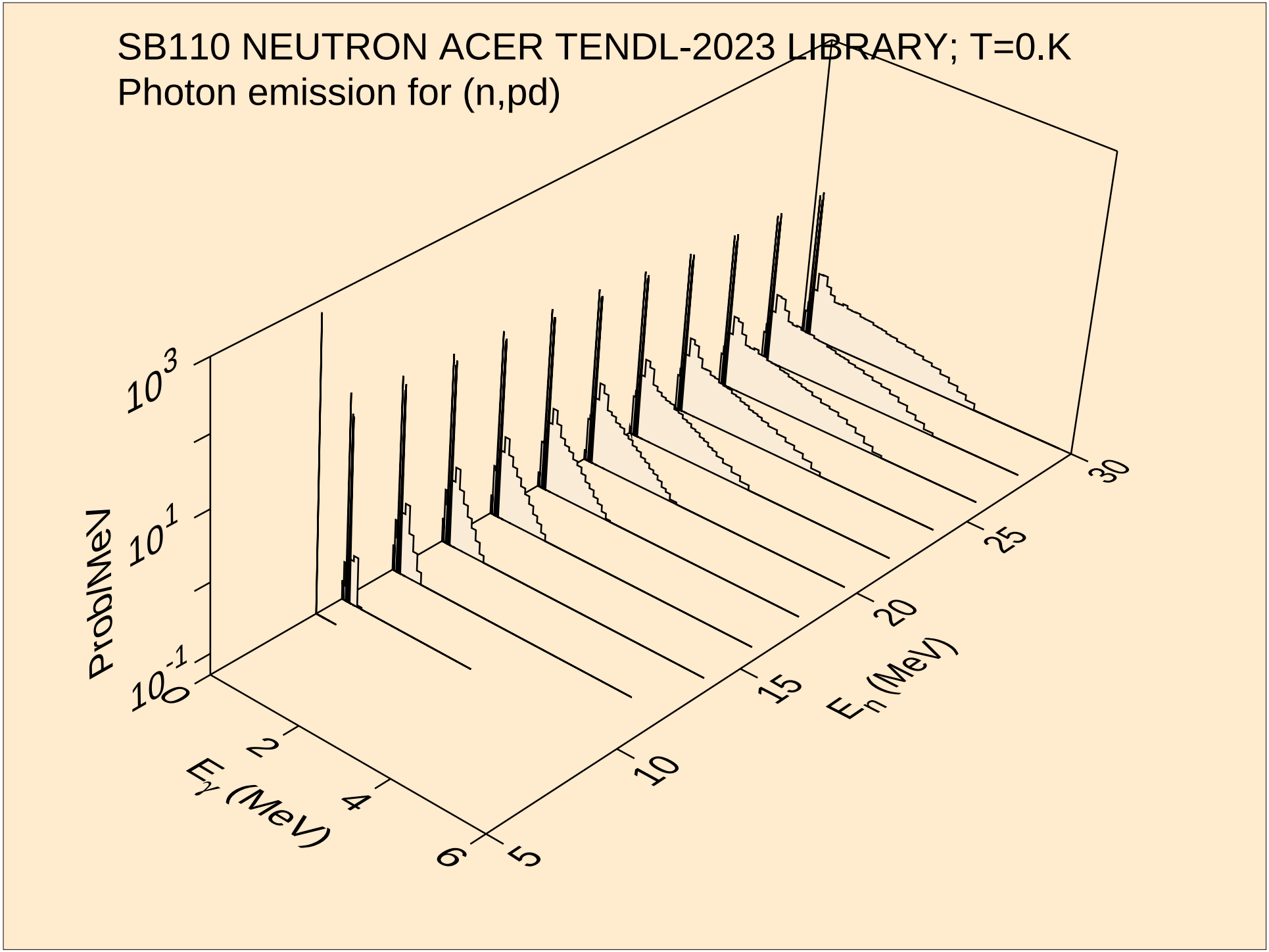

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2a)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

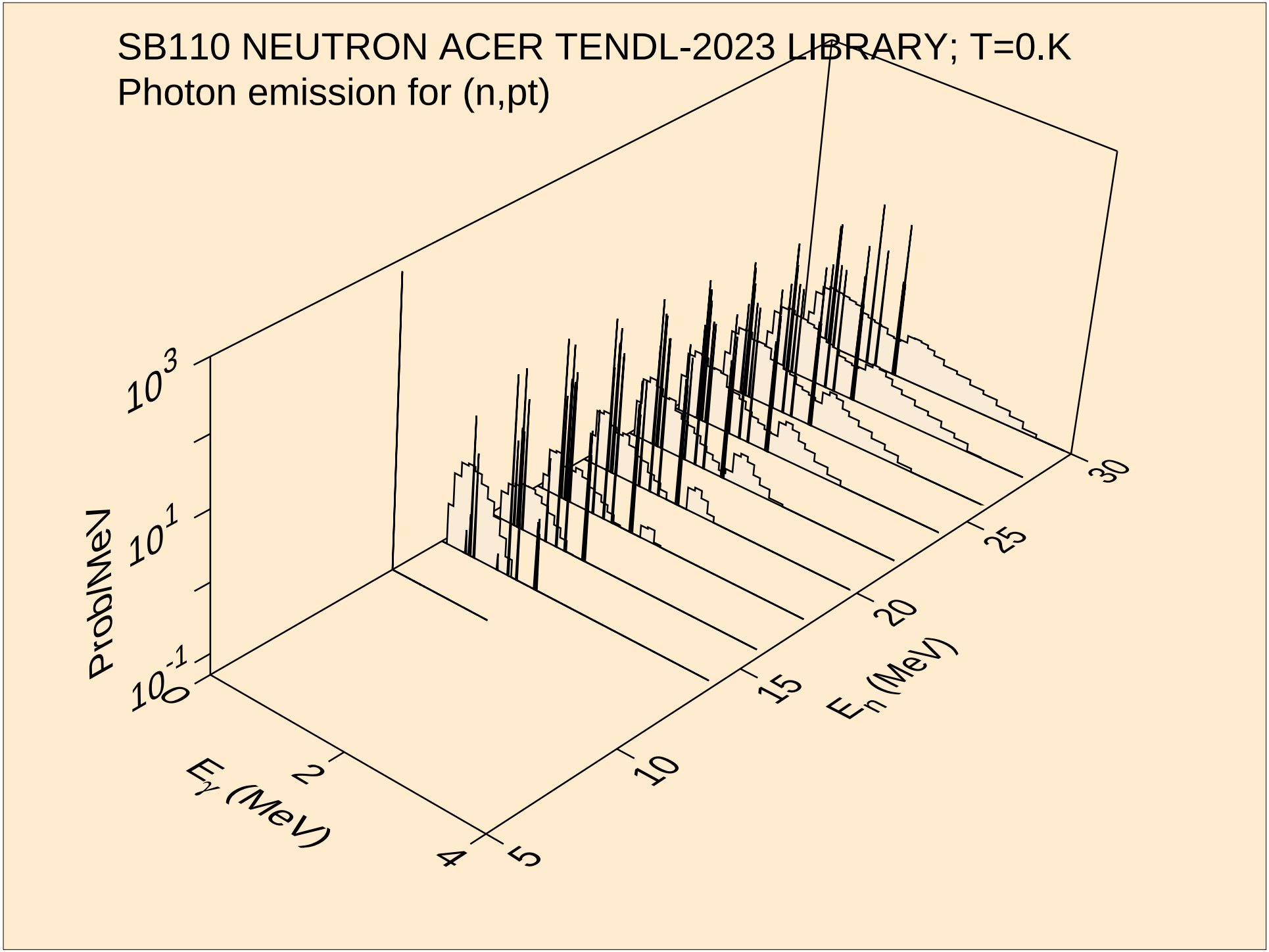

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,3a)
Prob/MeV
10^{0}
10^{-2}
0
2
4
6
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

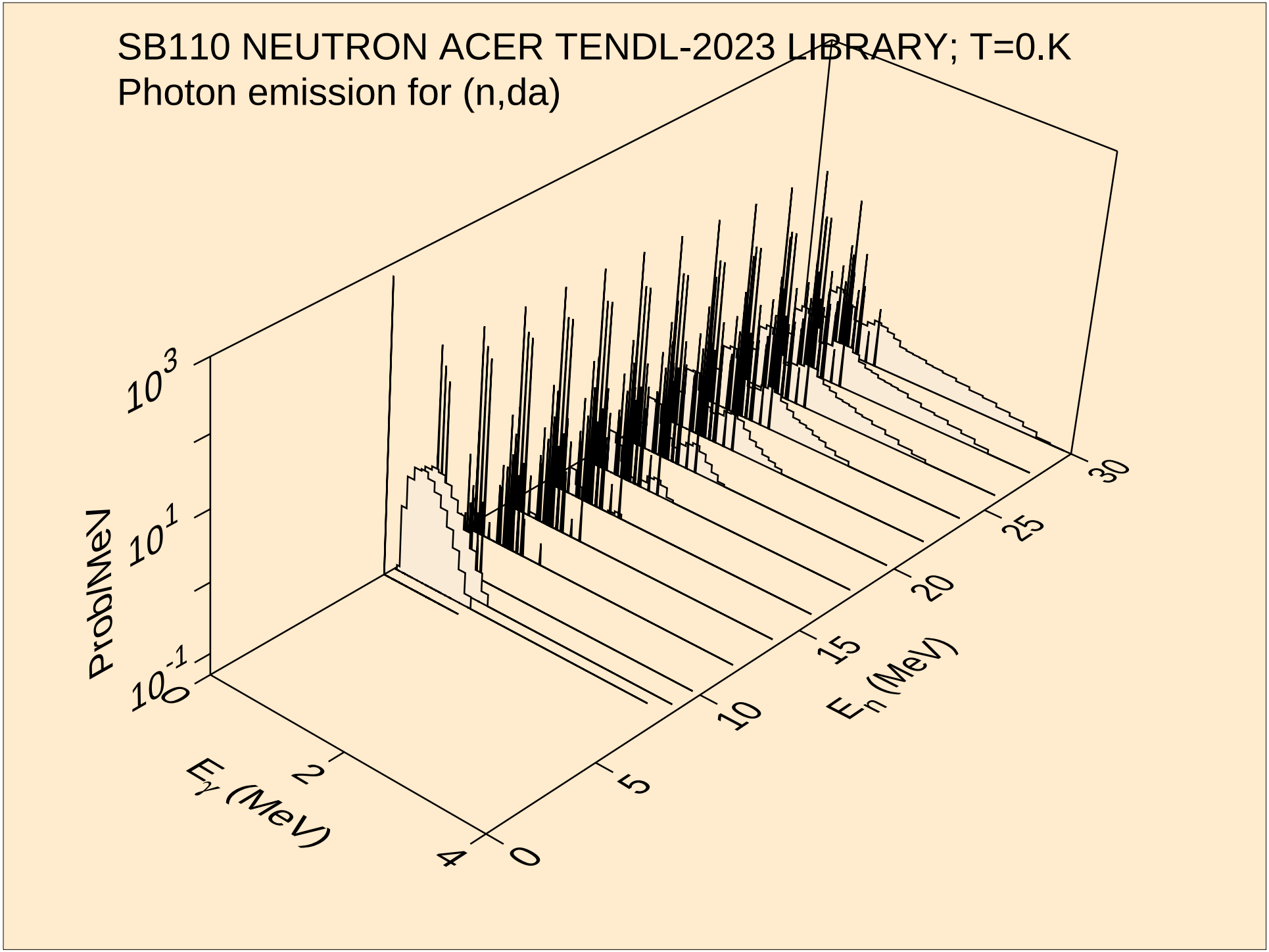

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2p)
Prob/MeV
10^0
10^-2
0
5
10
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

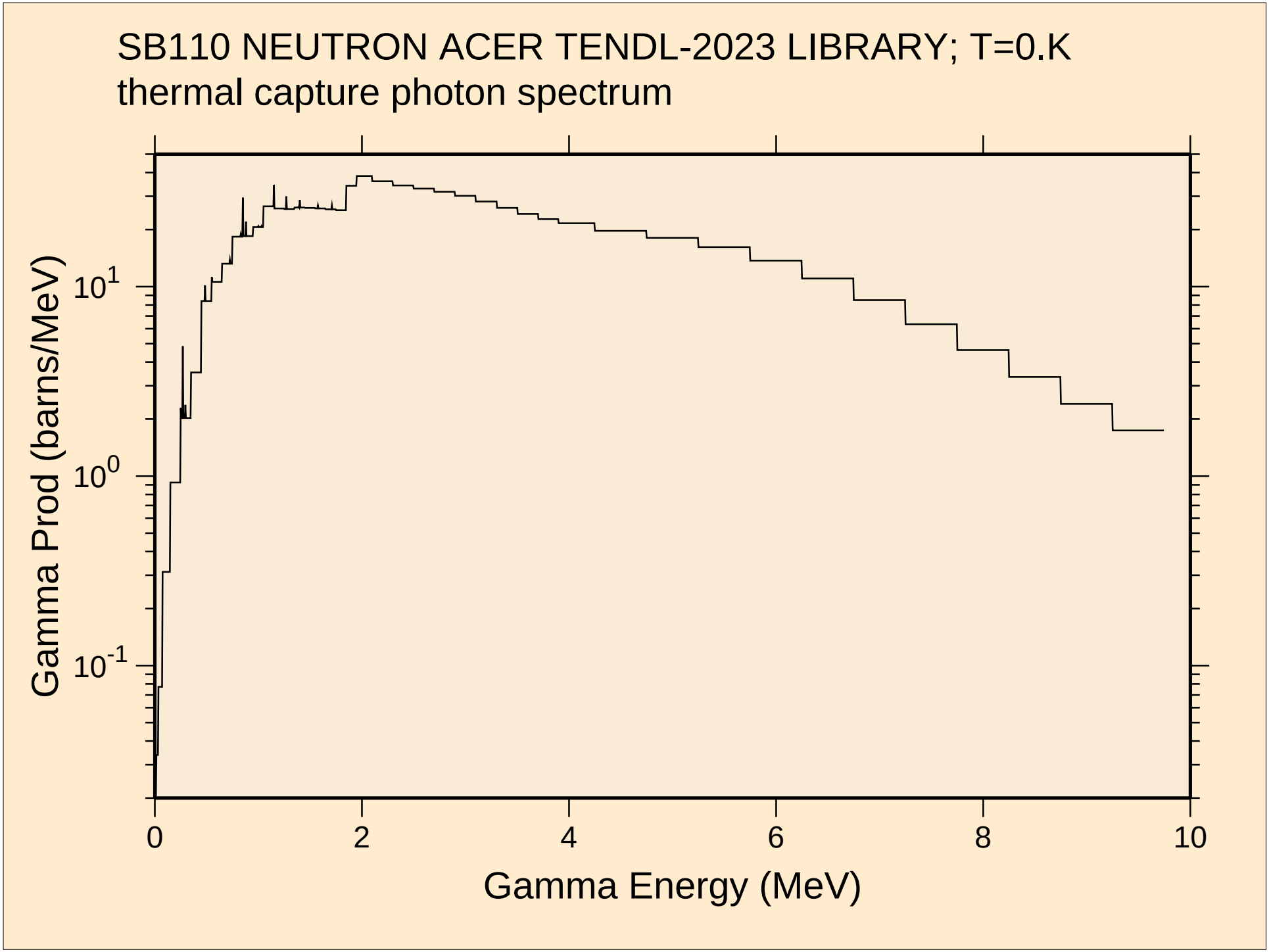

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,pa)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

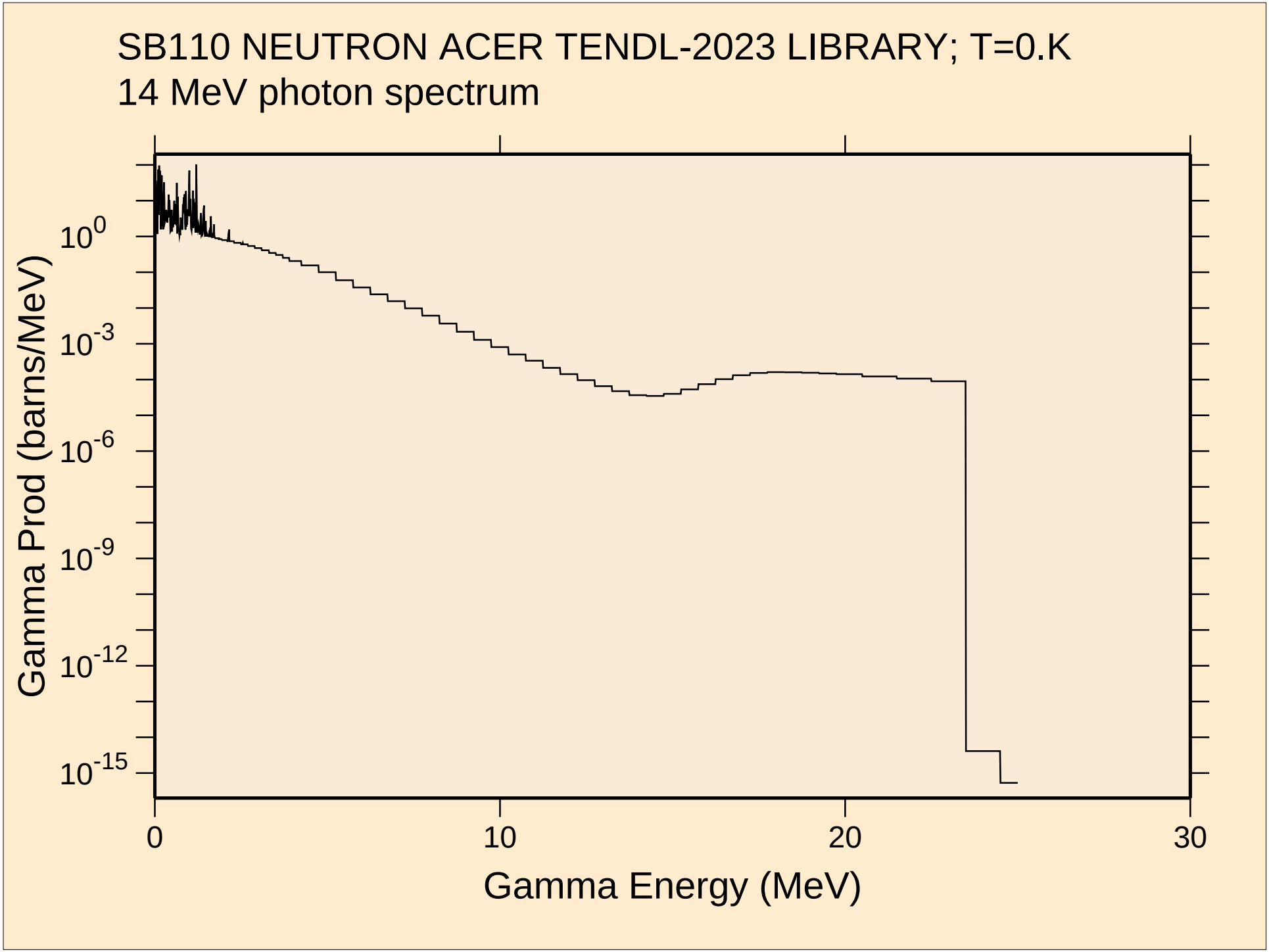

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,d2a)
Prob/MeV
10^{0}
10^{-2}
0
E_γ (MeV)
2
4
0
5
10
15
20
25
30
E_n (MeV)

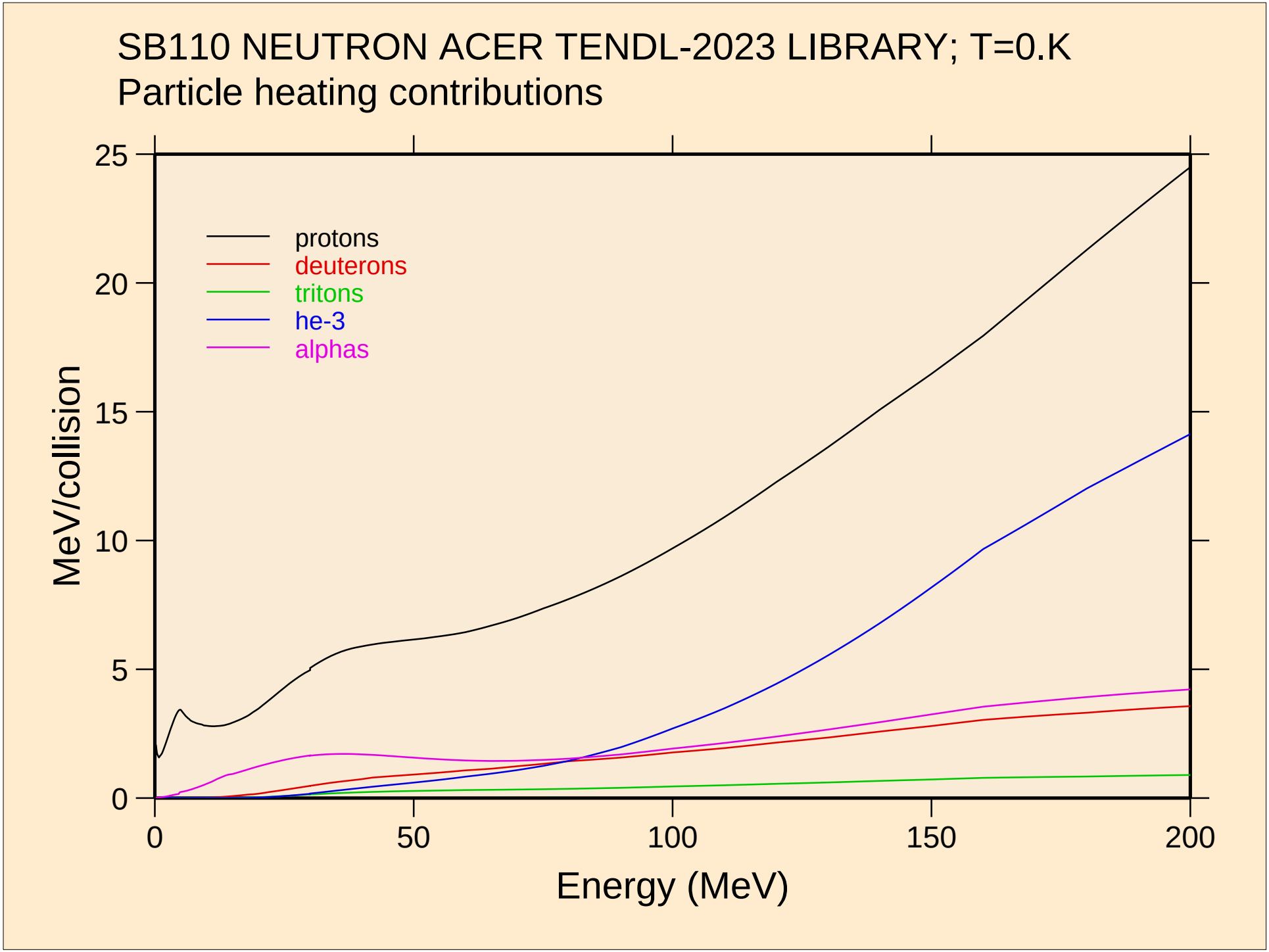

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,pd)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
6
E_γ (MeV)
5
10
15
20
25
30
E_n (MeV)


SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,pt)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
E_γ (MeV)
2
4
5
10
15
20
25
30
E_n (MeV)

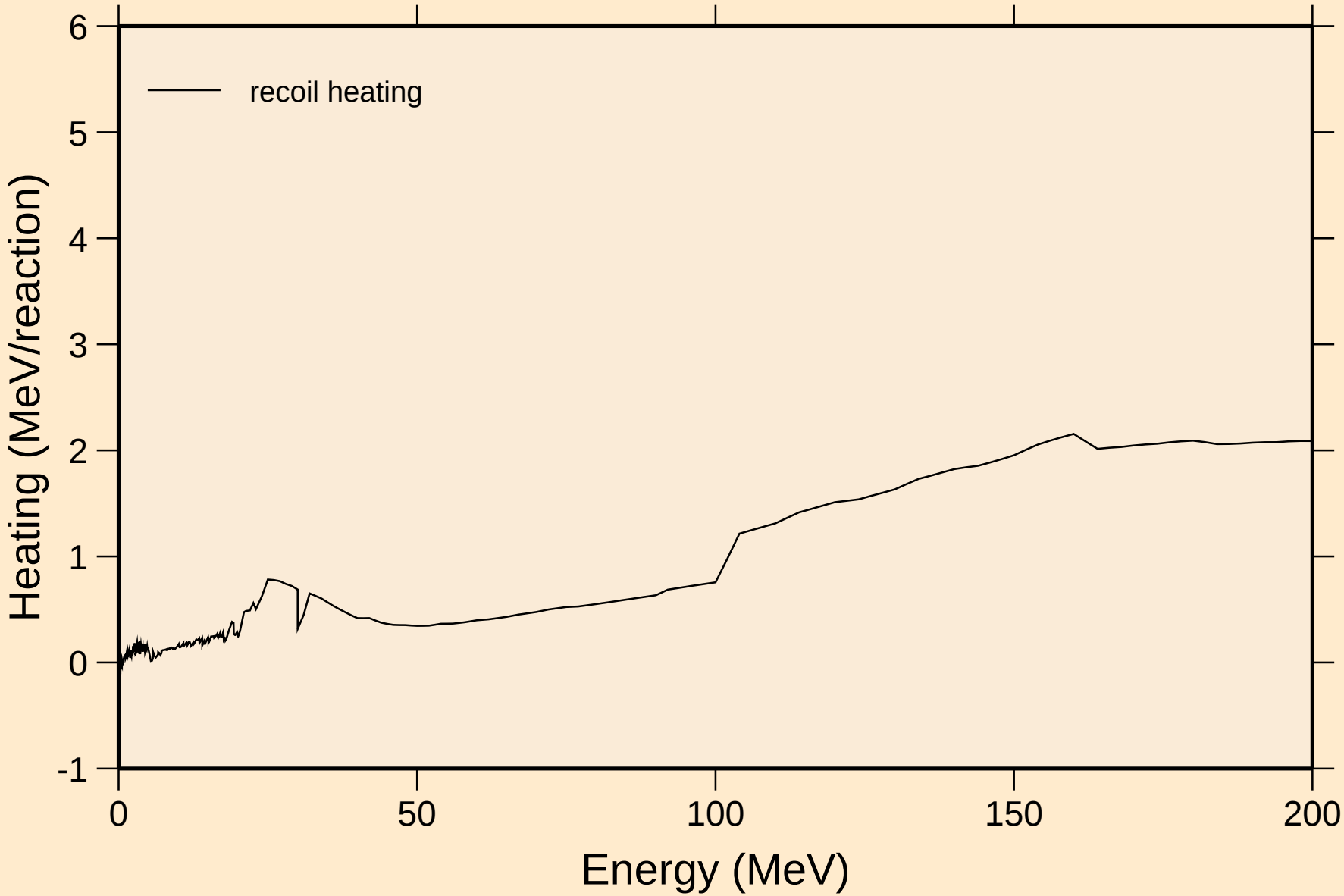

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,da)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

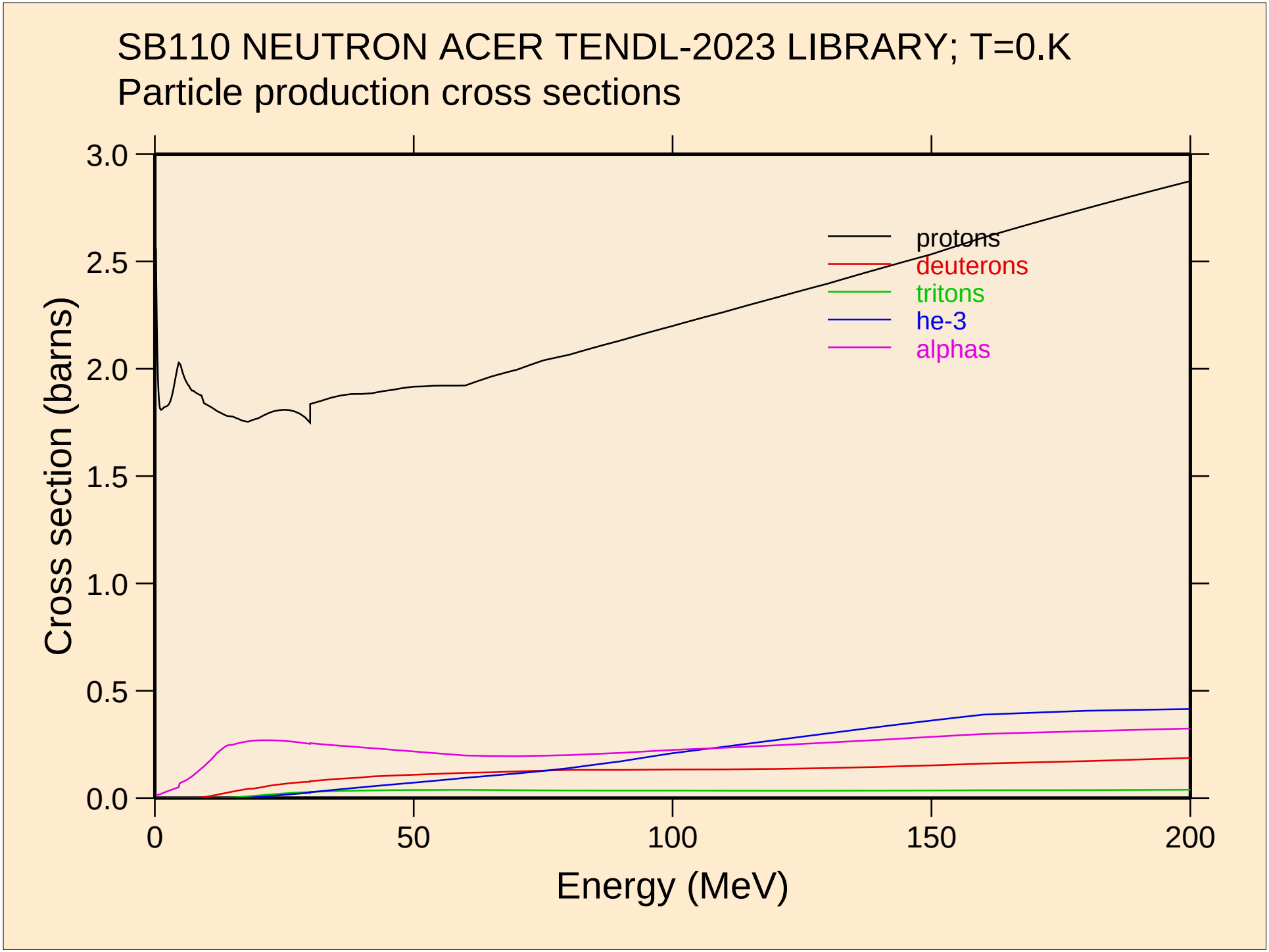

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
thermal capture photon spectrum
Gamma Prod (barns/MeV)
10^1
10^0
10^-1
0
2
4
6
8
10
Gamma Energy (MeV)

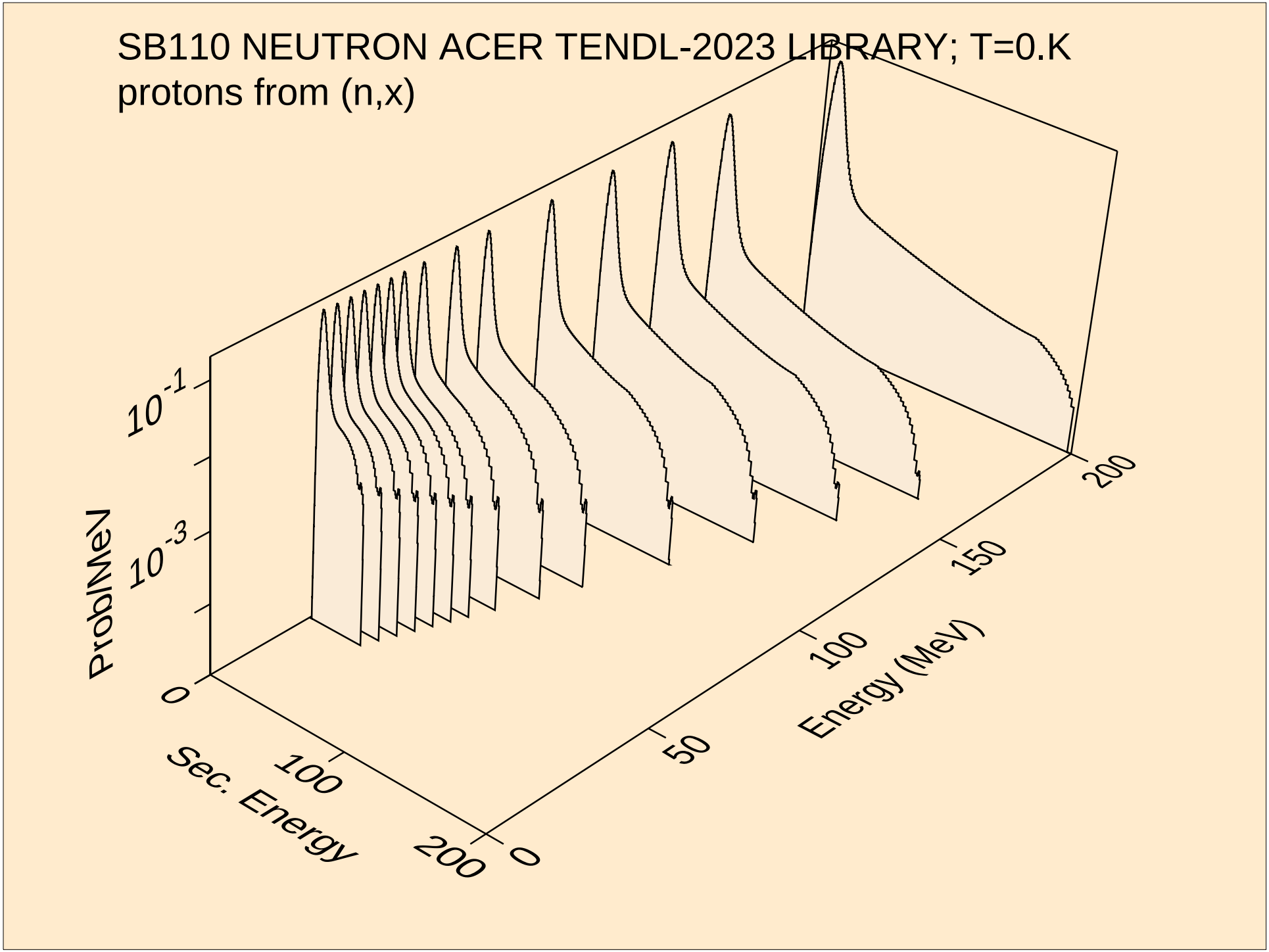

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
14 MeV photon spectrum
Gamma Prod (barns/MeV)
10^0
10^-3
10^-6
10^-9
10^-12
10^-15
0
10
20
30
Gamma Energy (MeV)

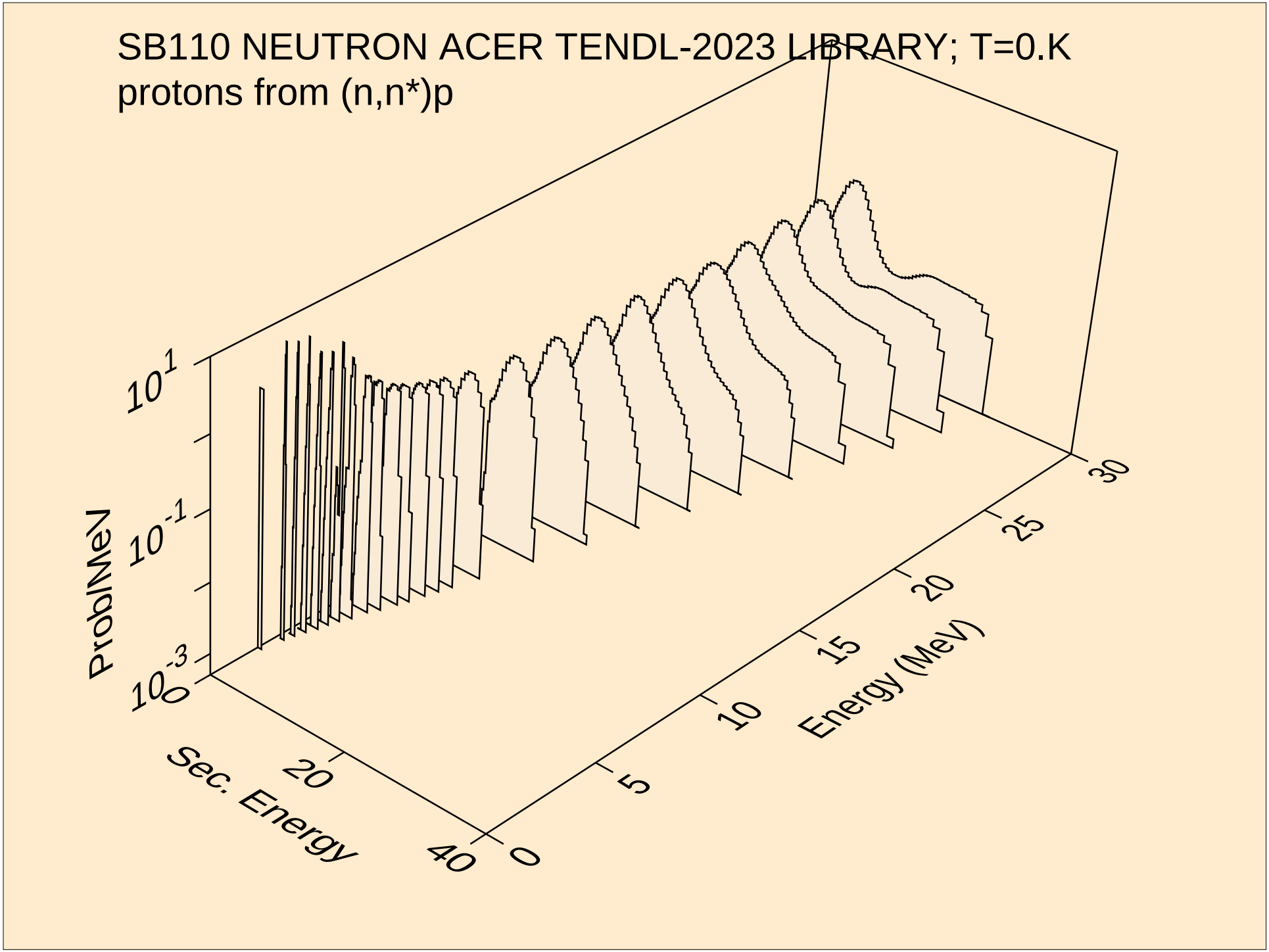

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Particle heating contributions
protons
deuterons
tritons
he-3
alphas
MeV/collision
Energy (MeV)
0
5
10
15
20
25
0
50
100
150
200

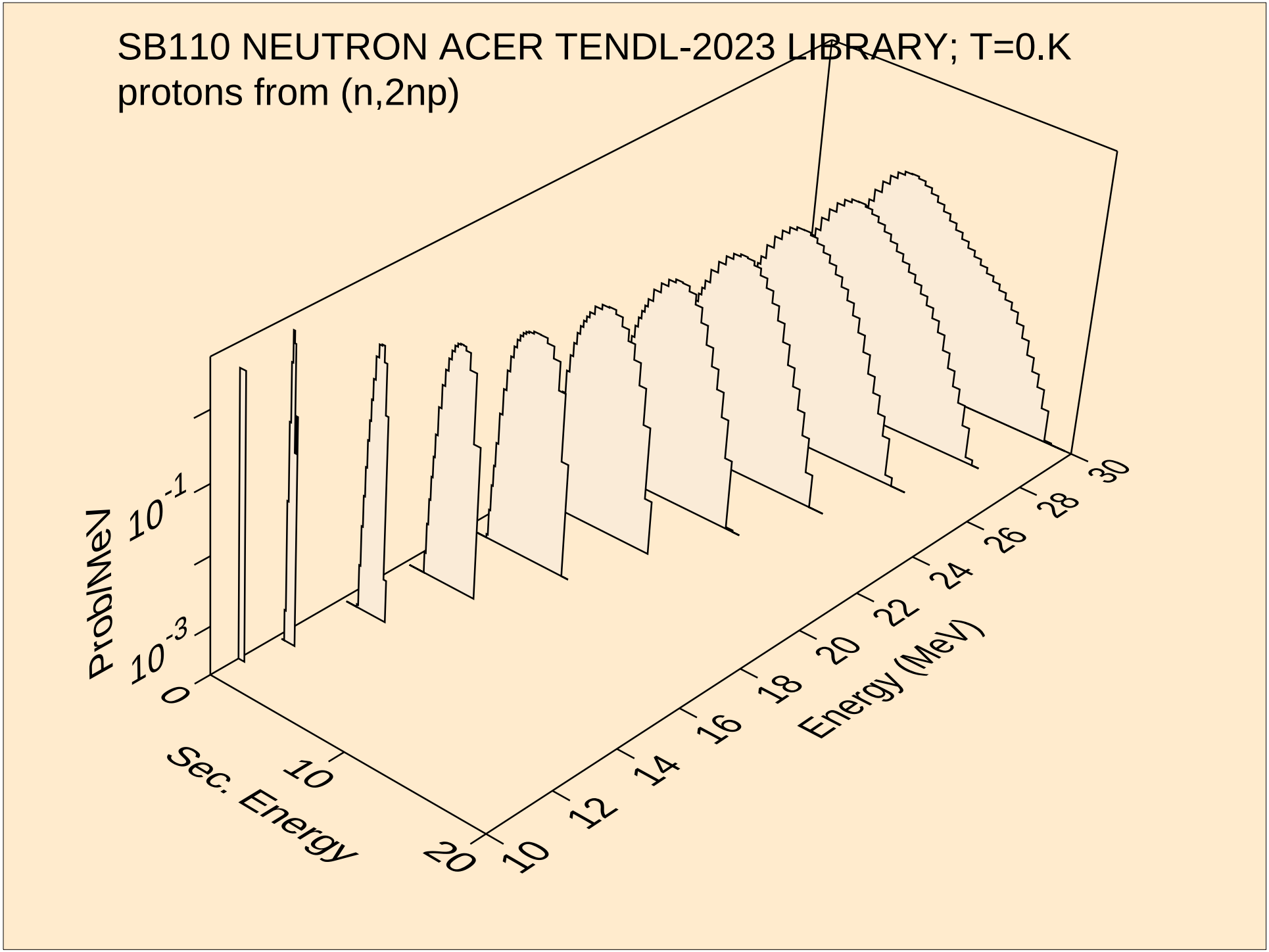
SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Recoil Heating

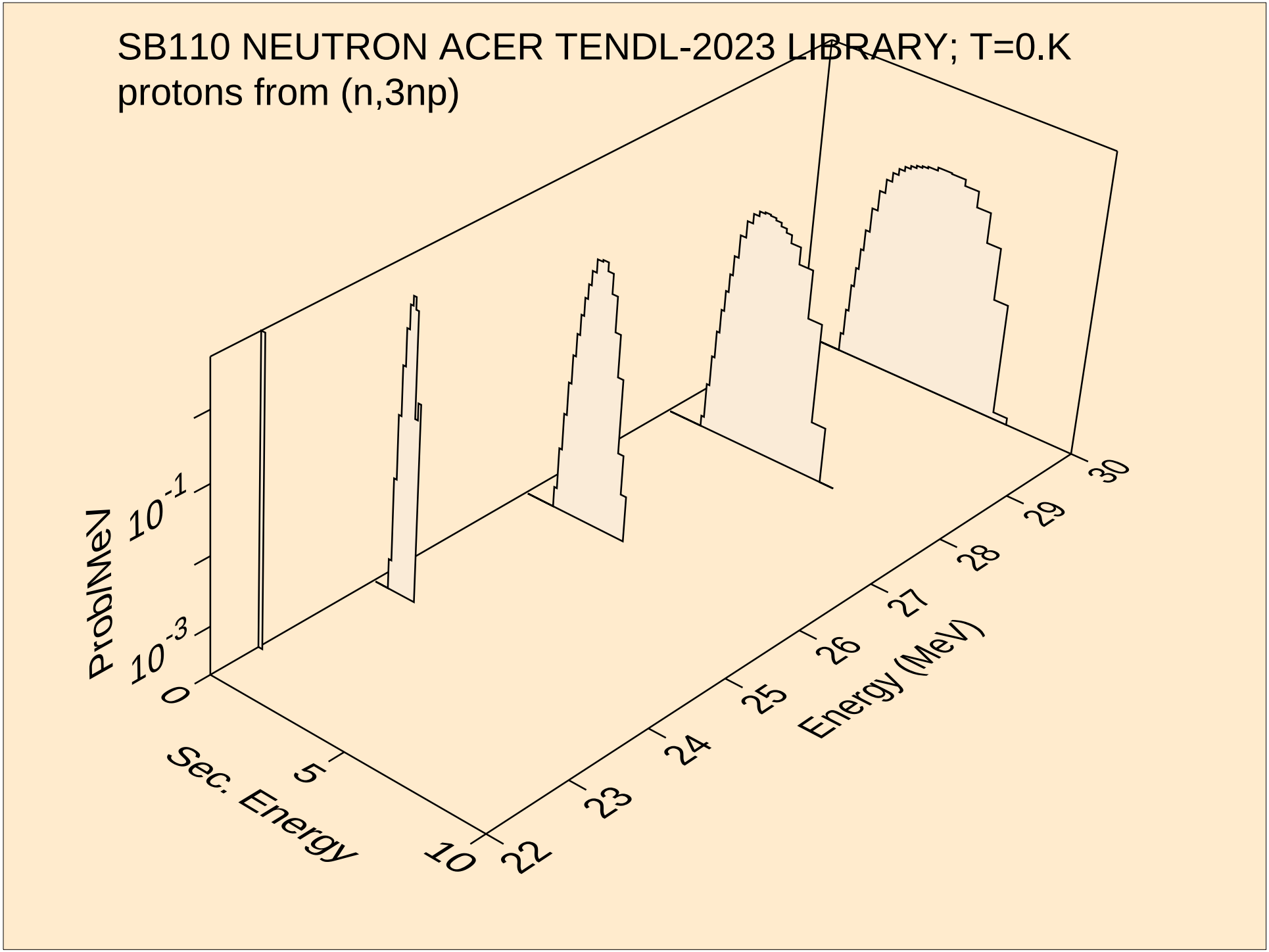


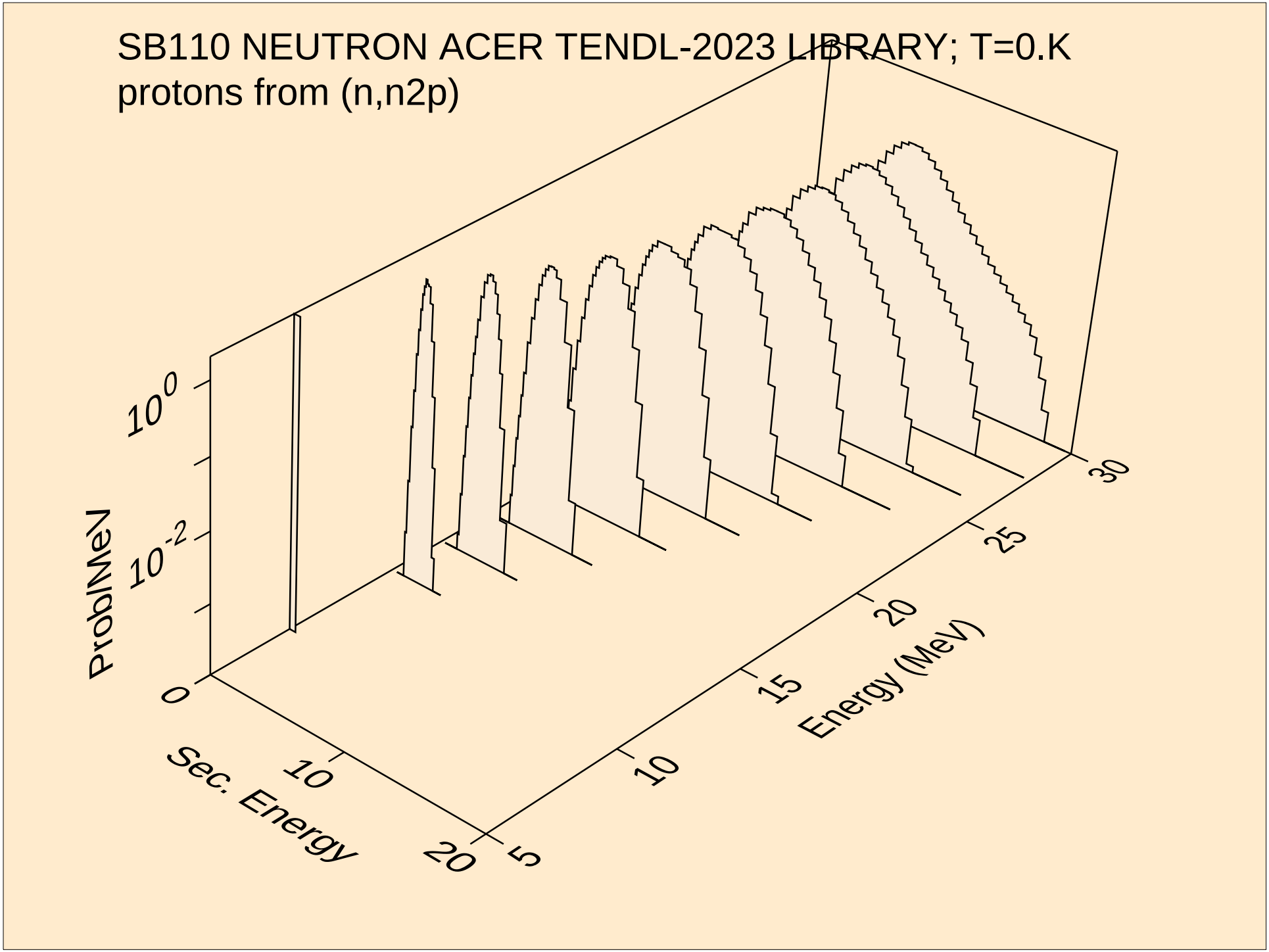

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Particle production cross sections
Cross section (barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
50
100
150
200
Energy (MeV)
protons
deuterons
tritons
he-3
alphas

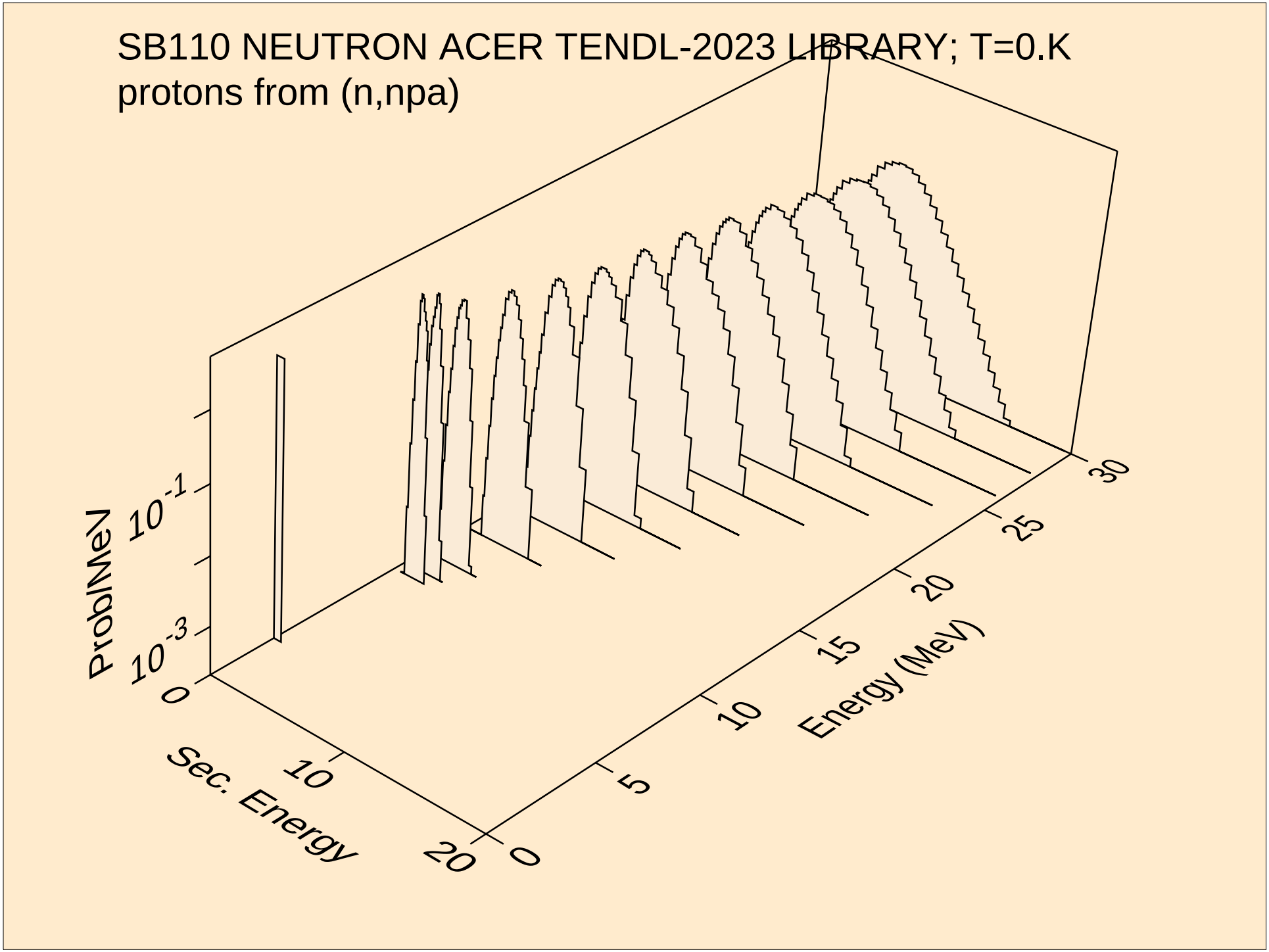

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,x)
Prob/MeV
10-1
10-3
0
Sec. Energy
100
200
0
50
100
150
200
Energy (MeV)

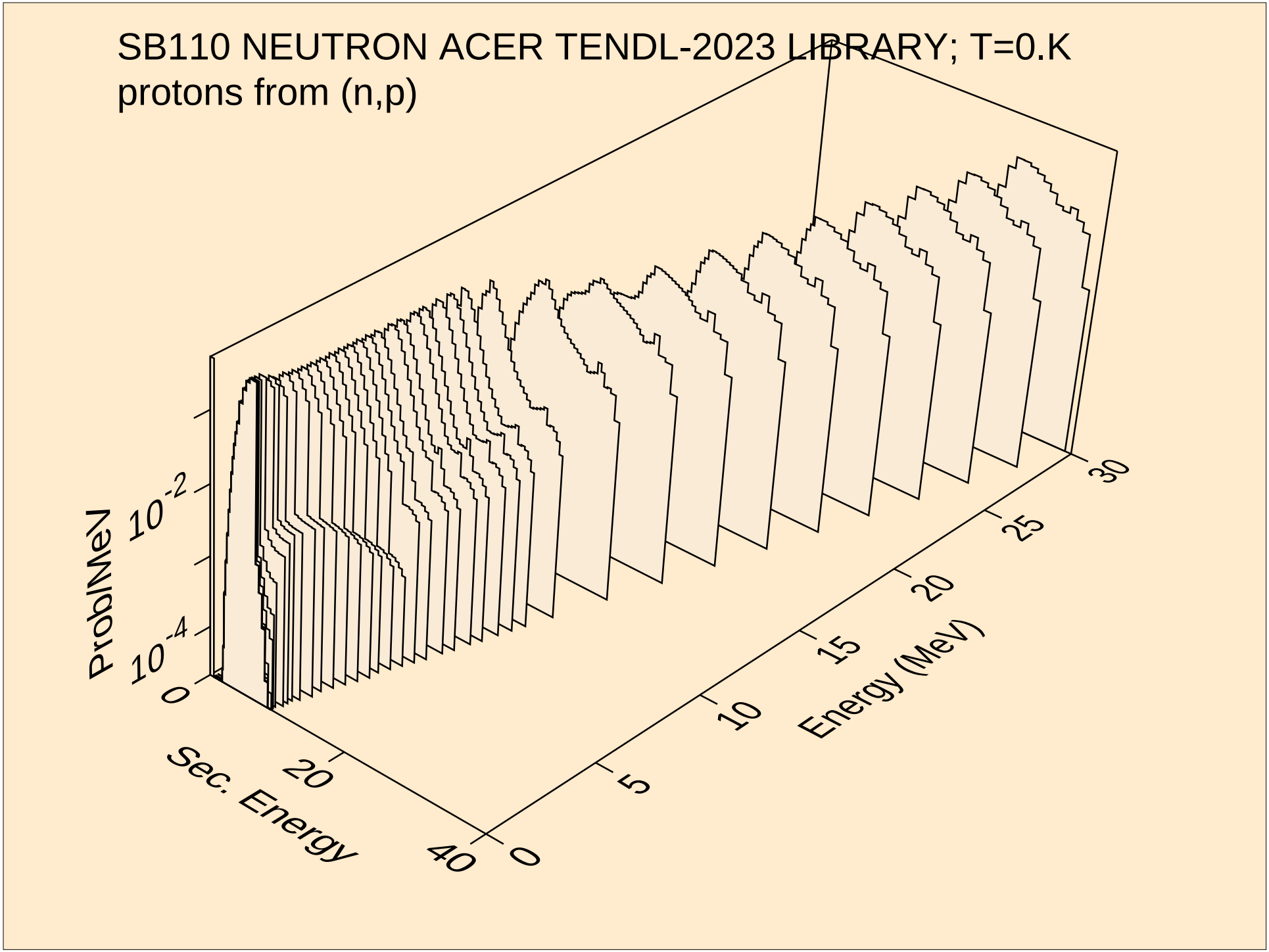

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,n*)p
Prob/MeV
10^1
10^-1
10^-3
0
20
40
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)

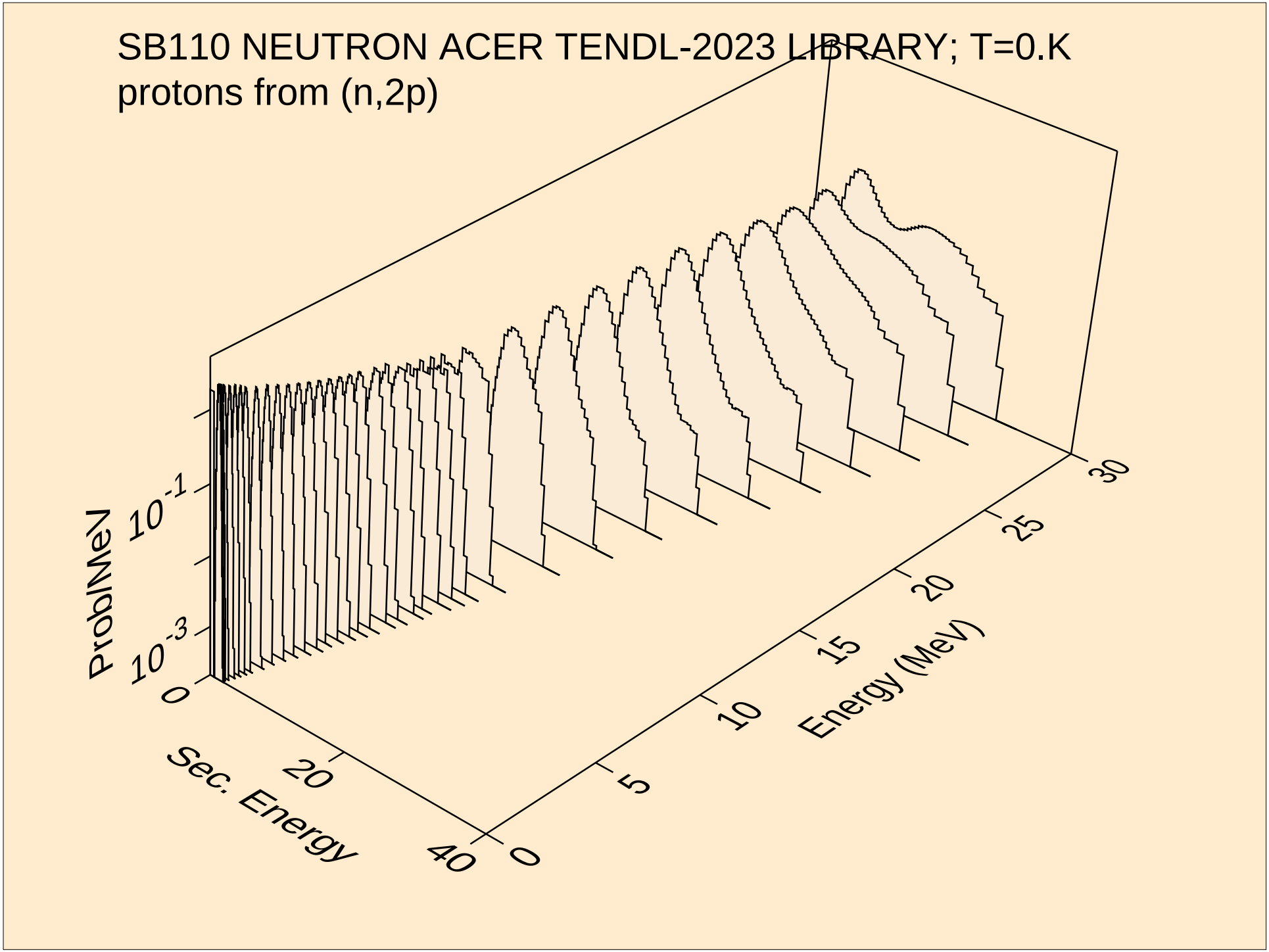

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,2np)
Prob/MeV
10^-1
10^-3
0
Sec. Energy
10
20
Energy (MeV)
10
12
14
16
18
20
22
24
26
28
30

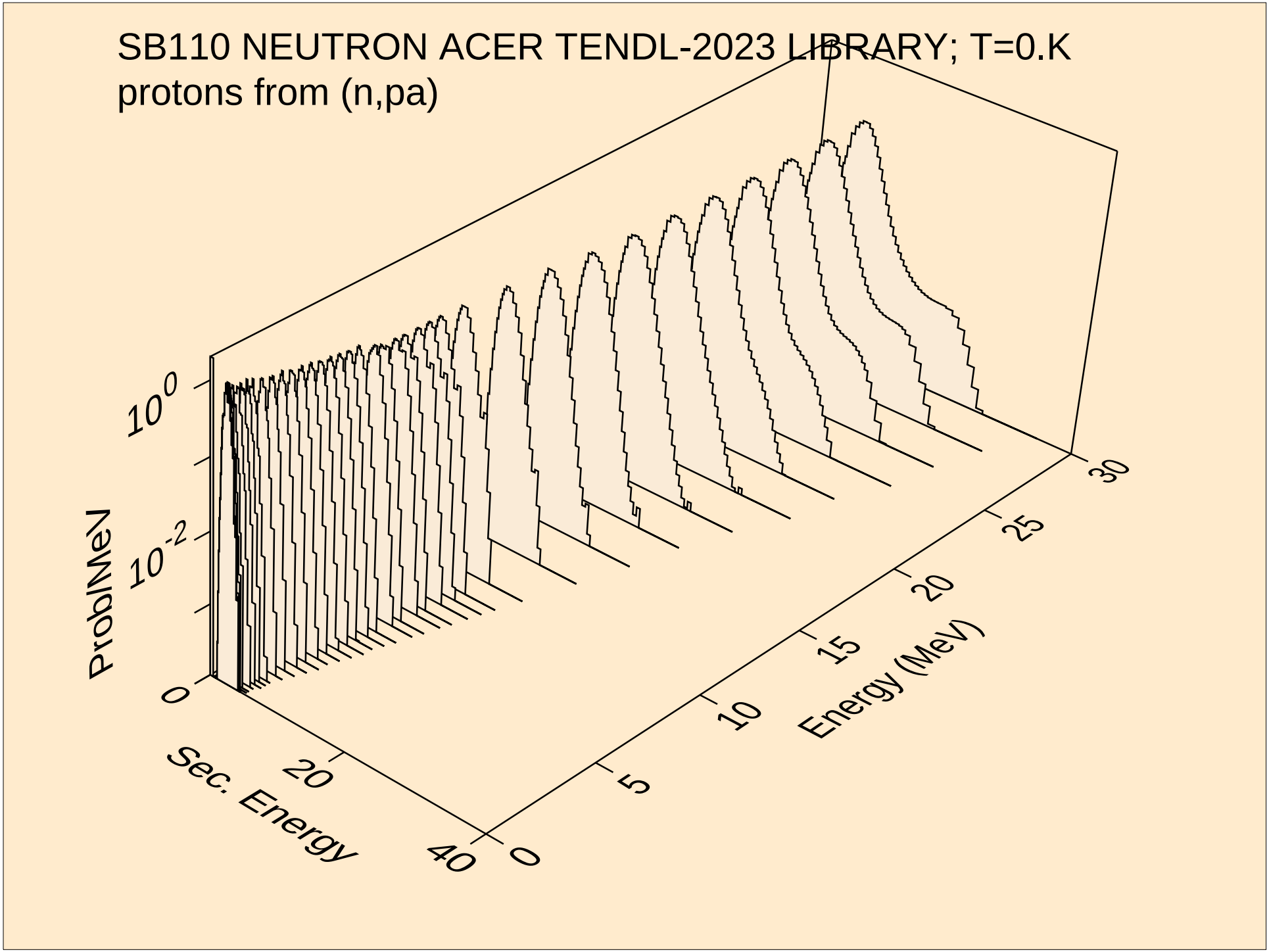

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,3np)
Prob/MeV
10-1
10-3
0
Sec. Energy
5
10
22
23
24
25
26
27
28
29
30
Energy (MeV)

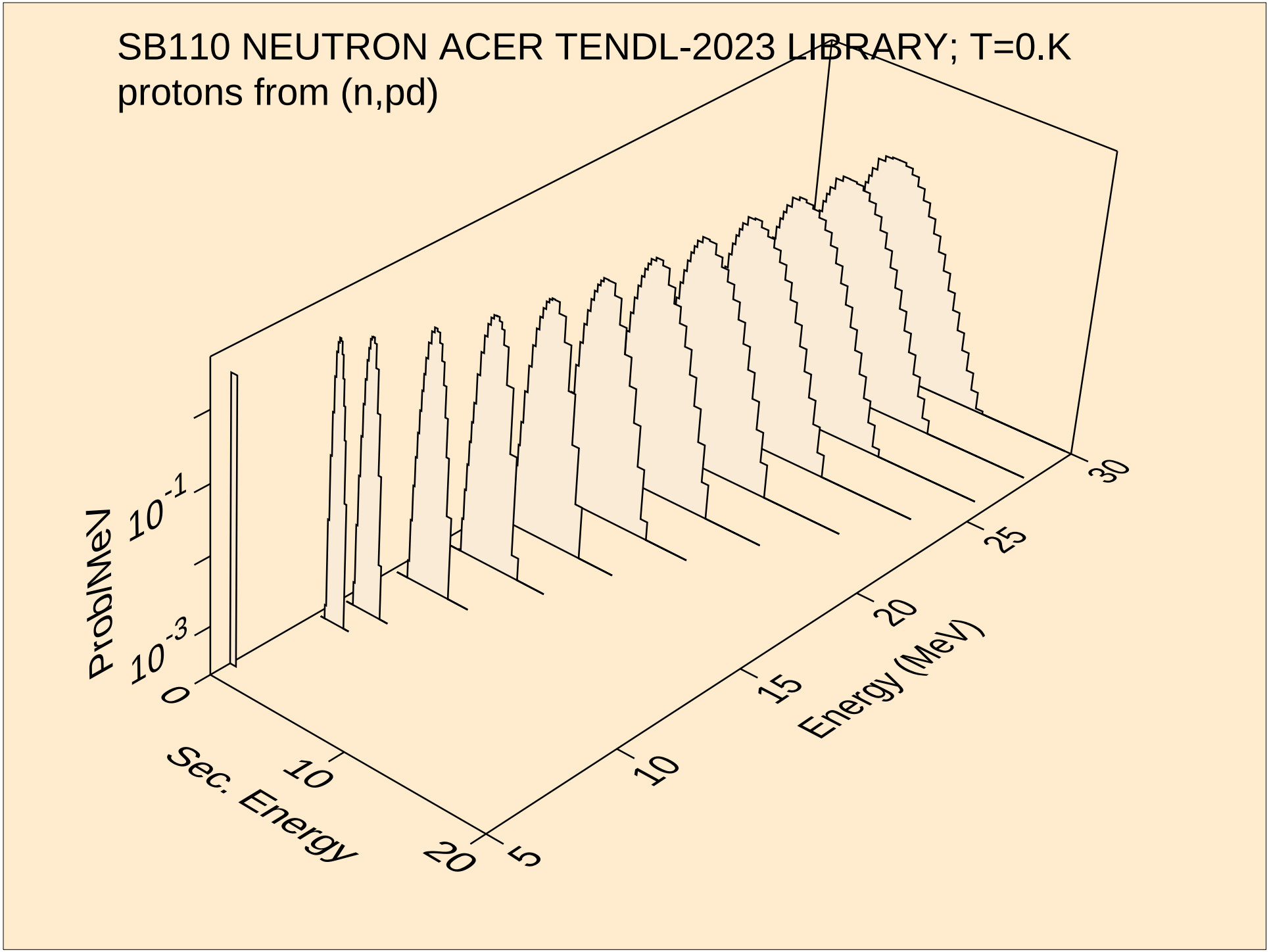

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,n2p)
Prob/MeV
10^0
10^-2
0
Sec. Energy
10
20
5
10
15
20
25
30
Energy (MeV)

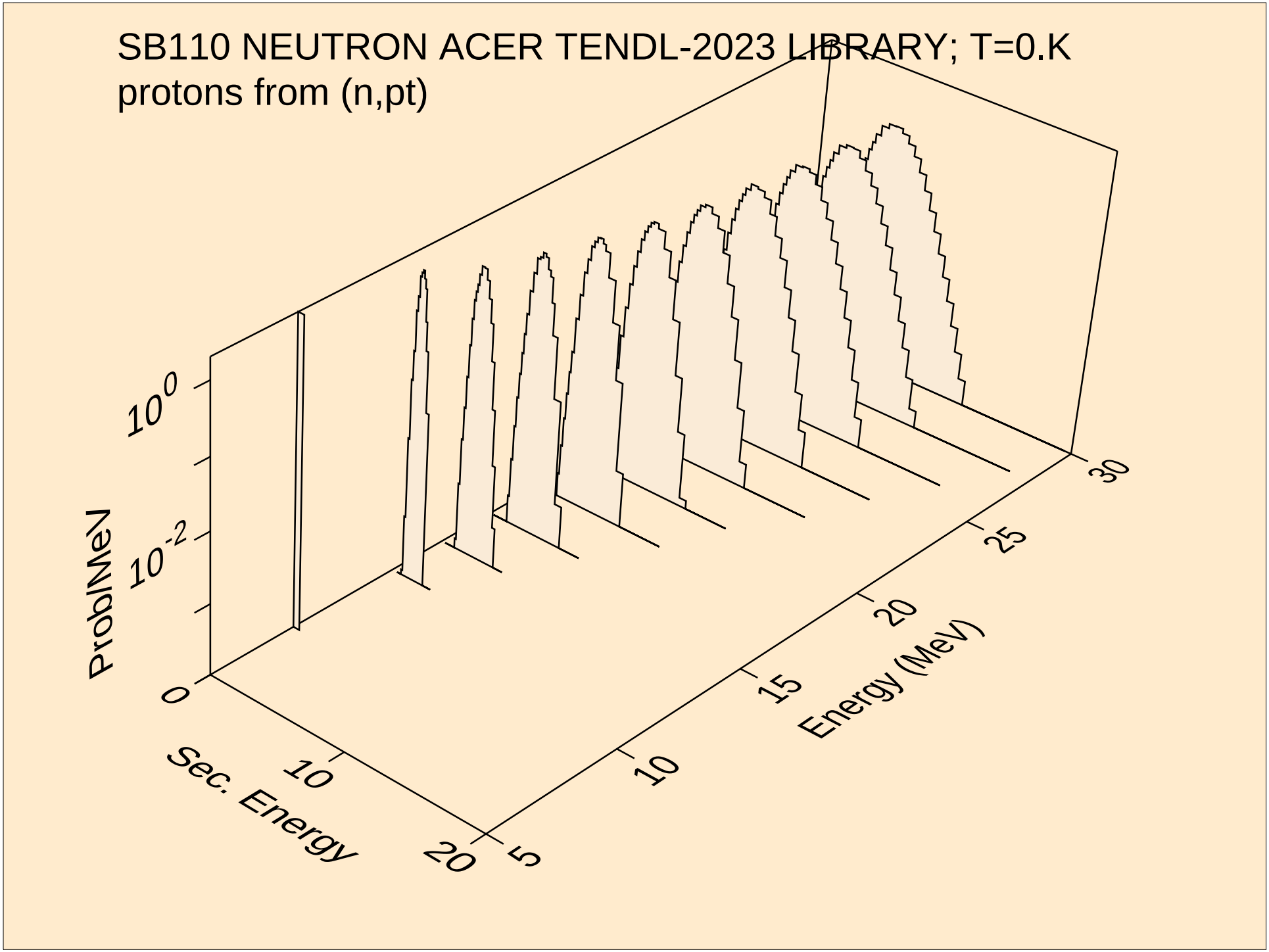

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,npa)
Prob/MeV
10-1
10-3
0
Sec. Energy
10
20
0
5
10
15
20
25
30
Energy (MeV)

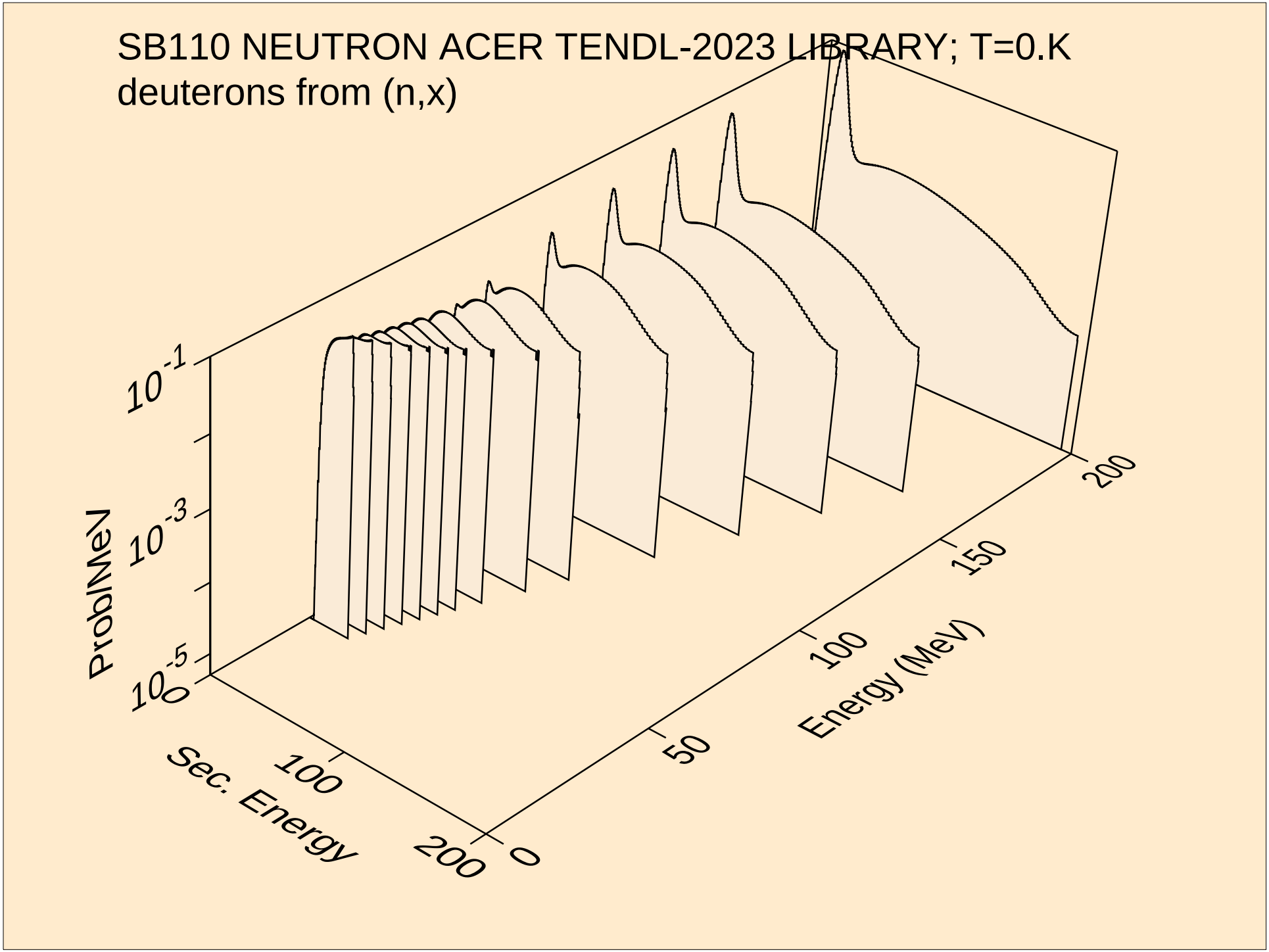

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,p)
Prob/MeV
10-2
10-4
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)

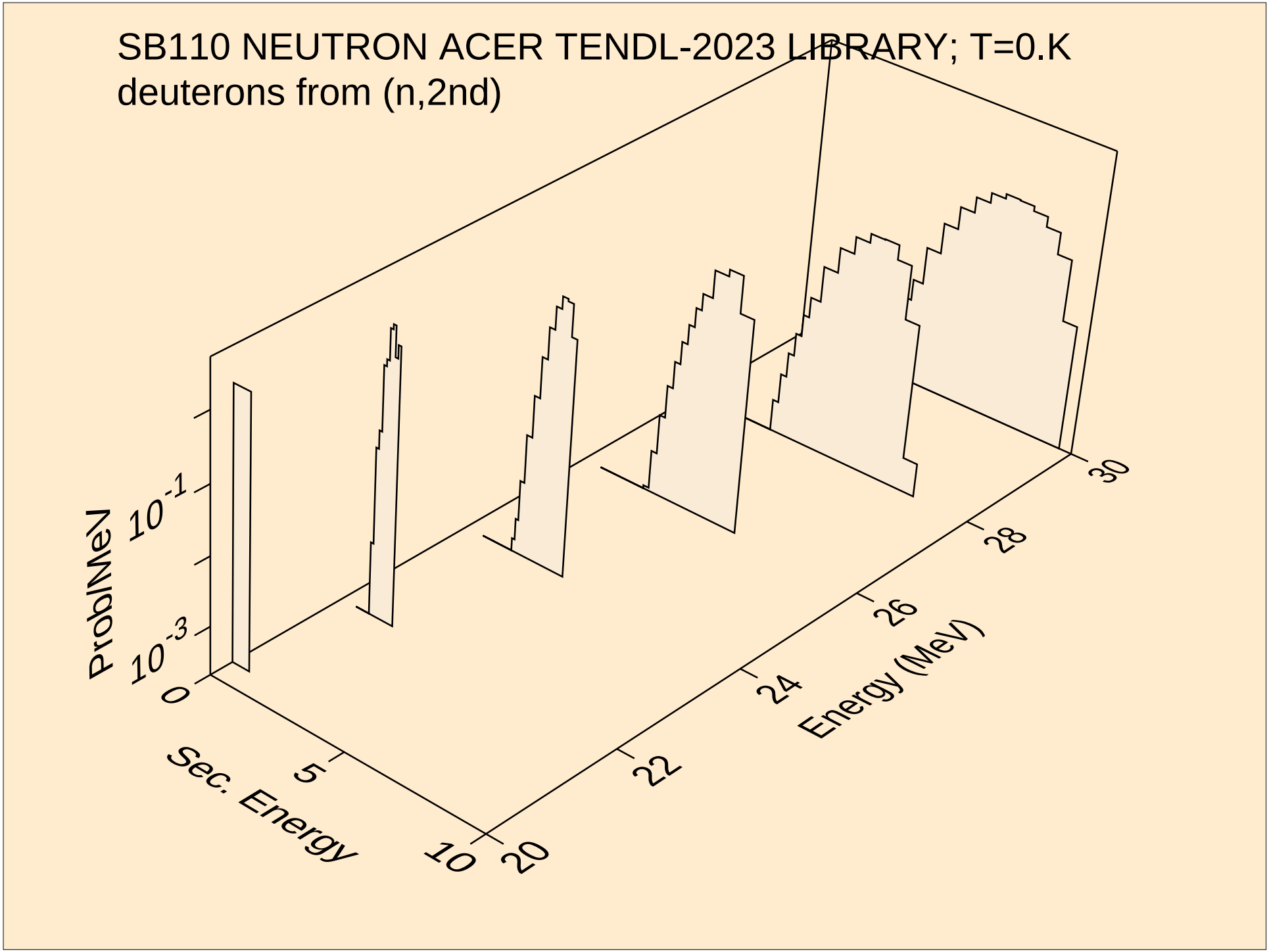

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,2p)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)

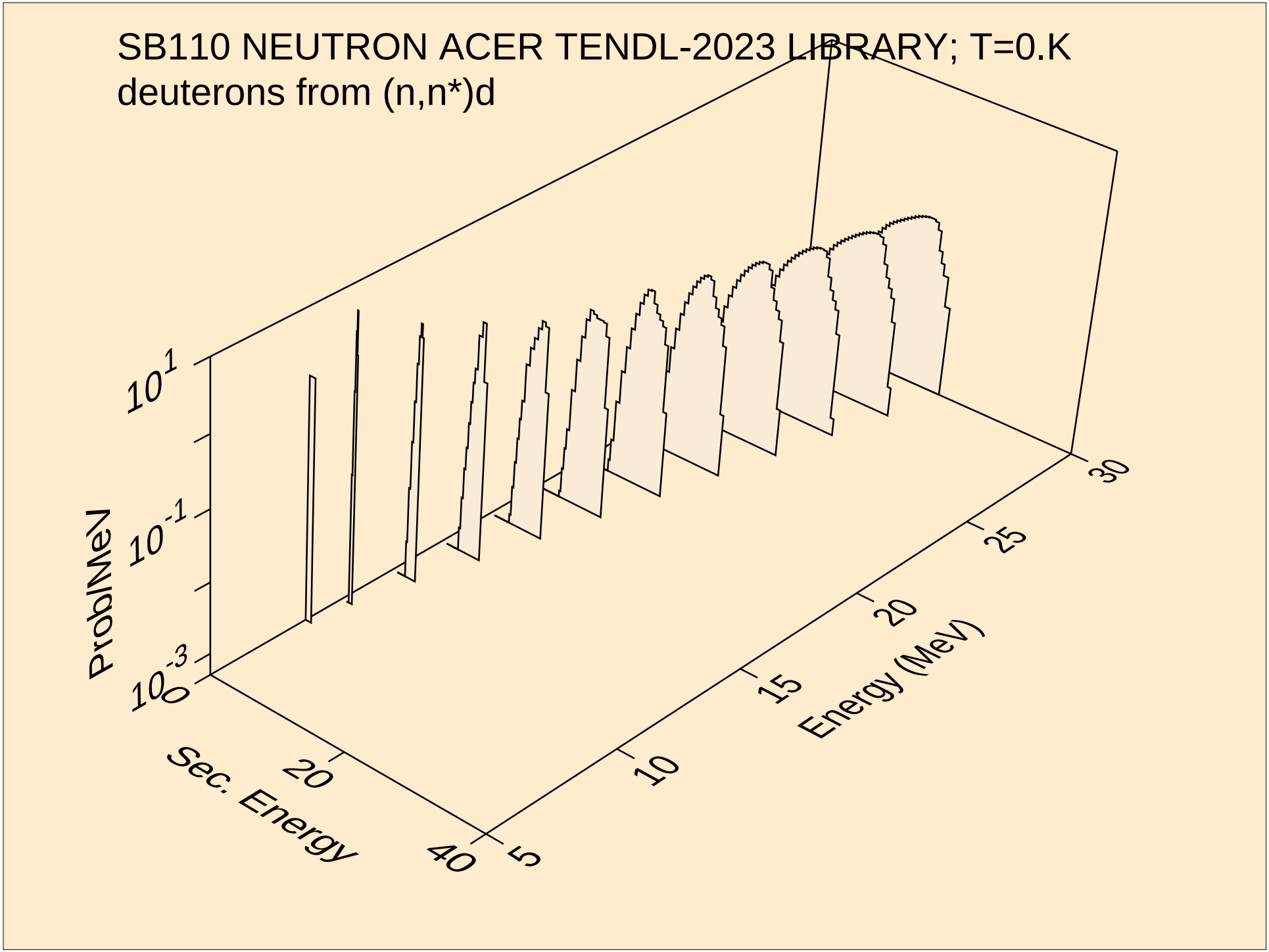

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,pa)
Prob/MeV
10^0
10^-2
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)

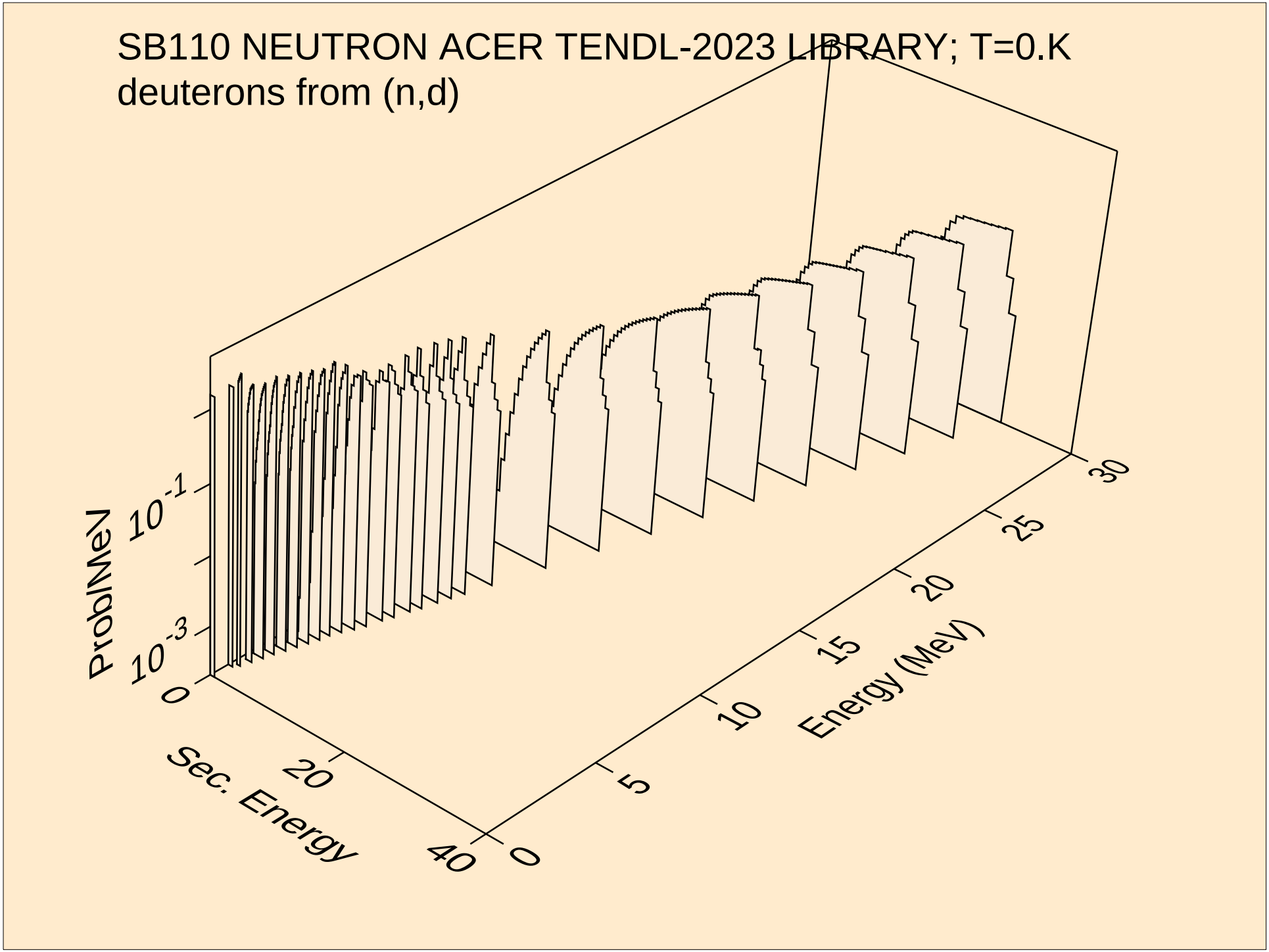

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,pd)
Prob/MeV
10-1
10-3
0
Sec. Energy
10
20
5
10
15
20
25
30
Energy (MeV)

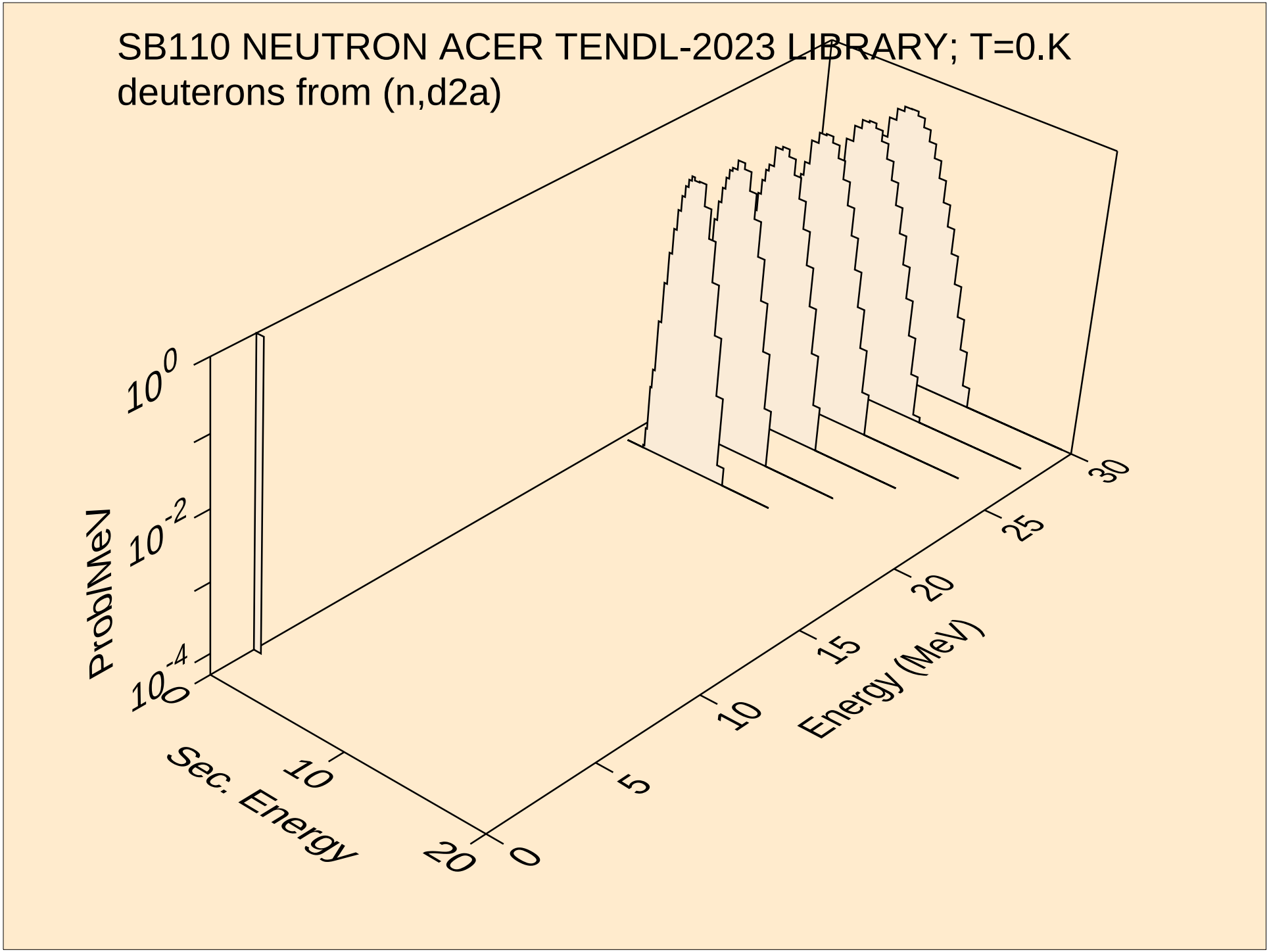

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,pt)
Prob/MeV
10^{0}
10^{-2}
0
Sec. Energy
10
20
5
10
15
20
25
30
Energy (MeV)

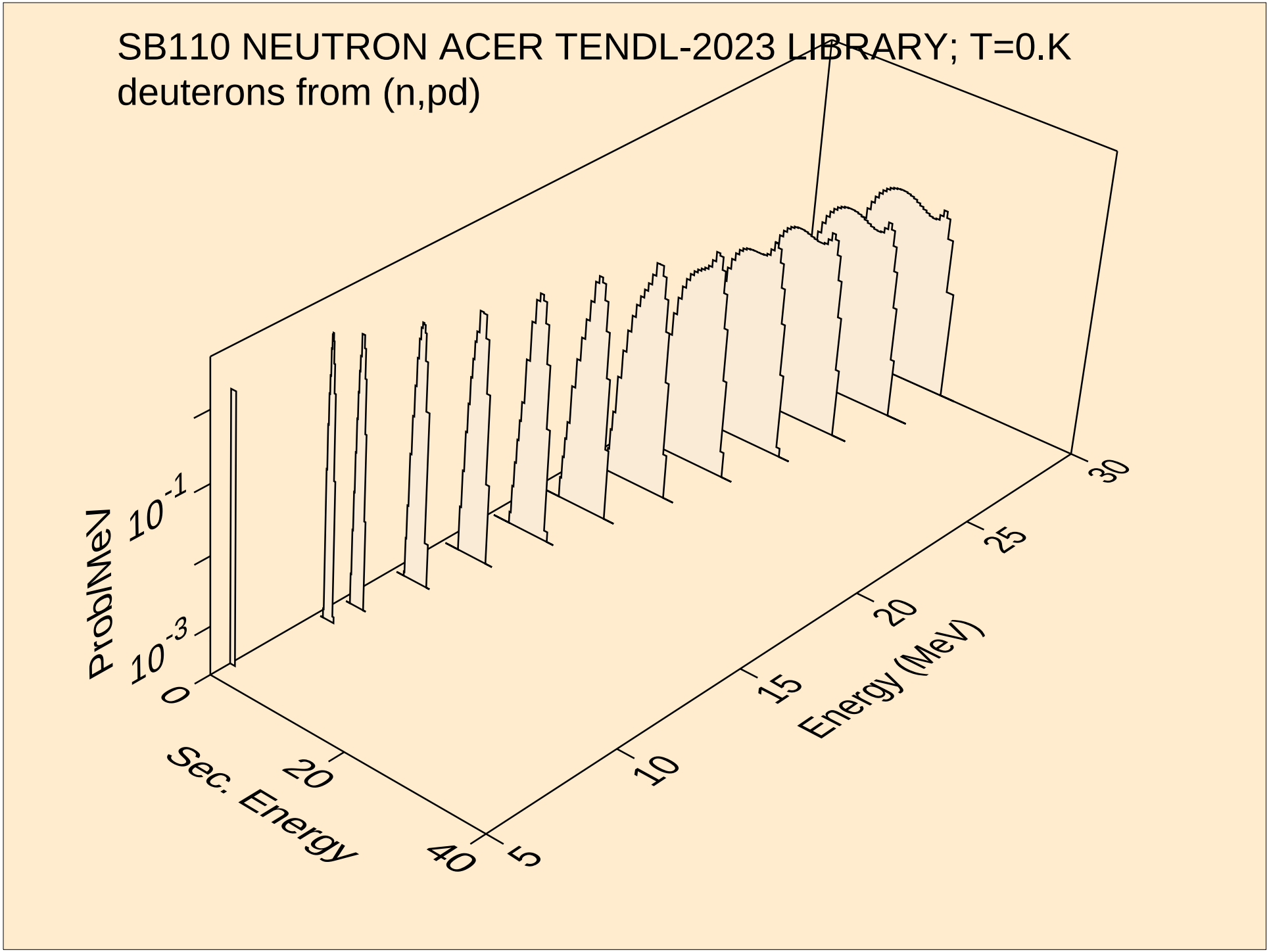

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (n,x)
Prob/MeV
10-1
10-3
10-5
0
100
200
Sec. Energy
0
50
100
150
200
Energy (MeV)

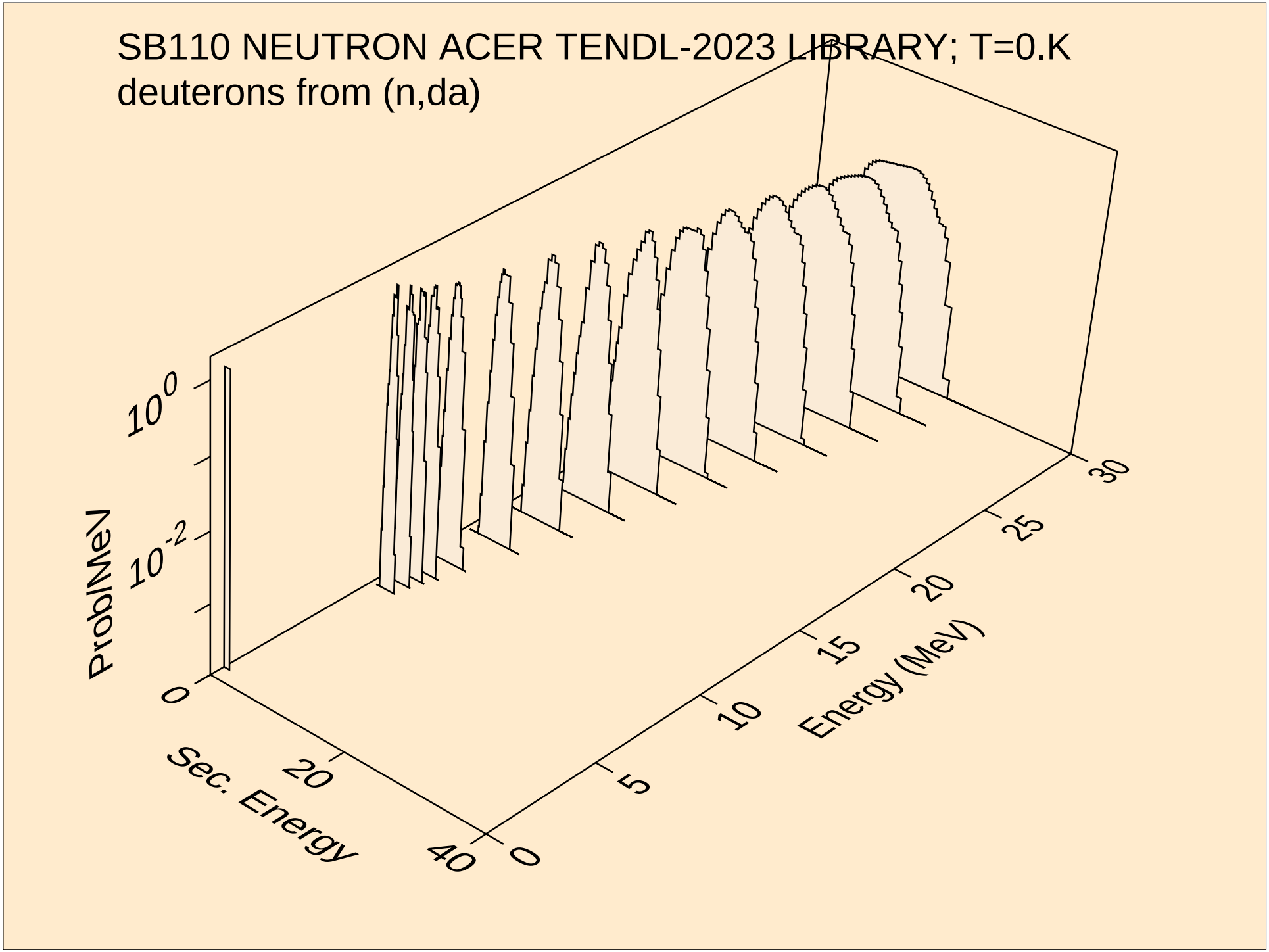

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (n,2nd)
Prob/MeV
10-1
10-3
0
Sec. Energy
5
10
20
22
24
26
28
30
Energy (MeV)

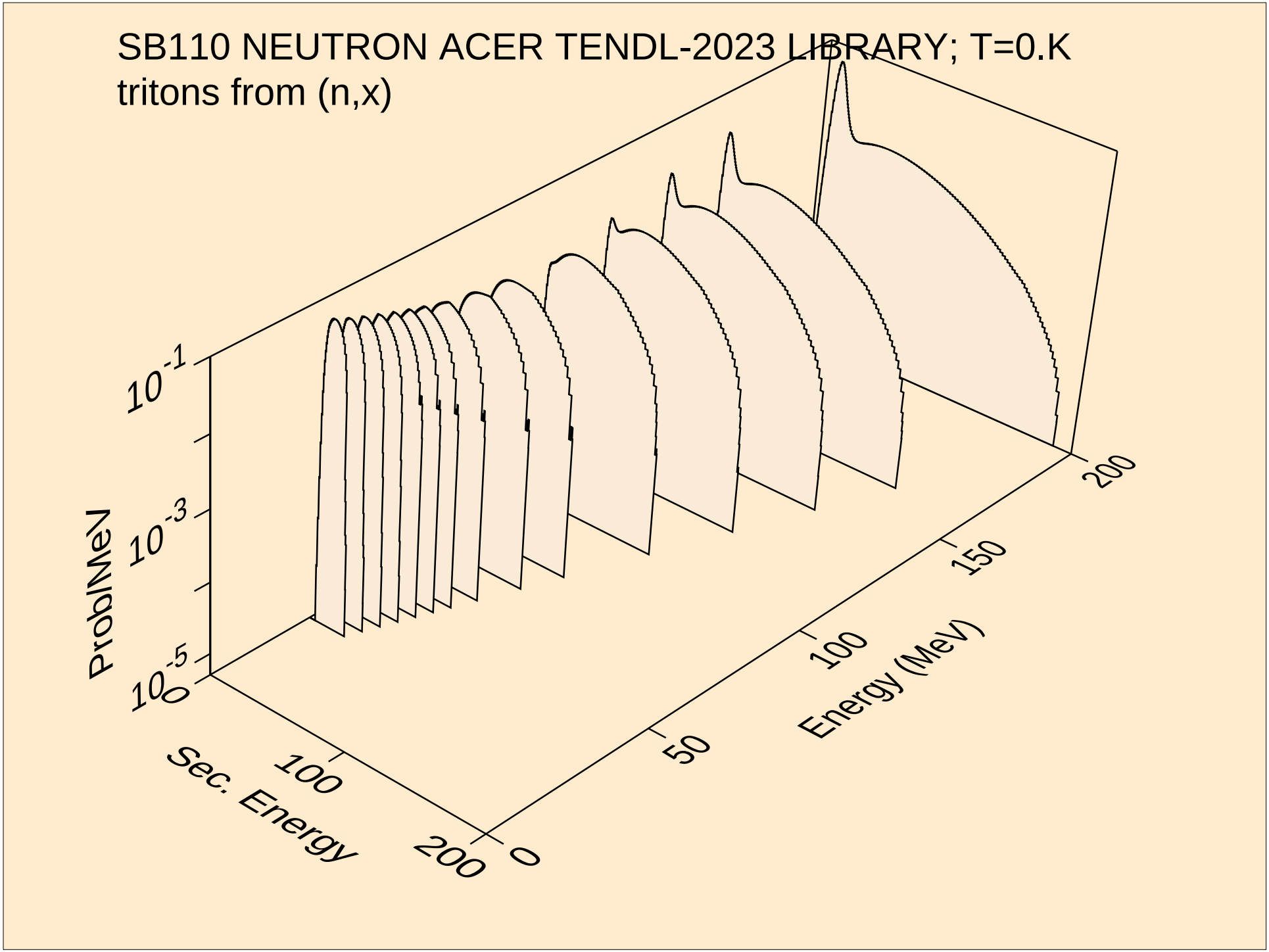

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (n,n*)d
Prob/MeV
10^1
10^-1
10^-3
0
20
40
Sec. Energy
5
10
15
20
25
30
Energy (MeV)

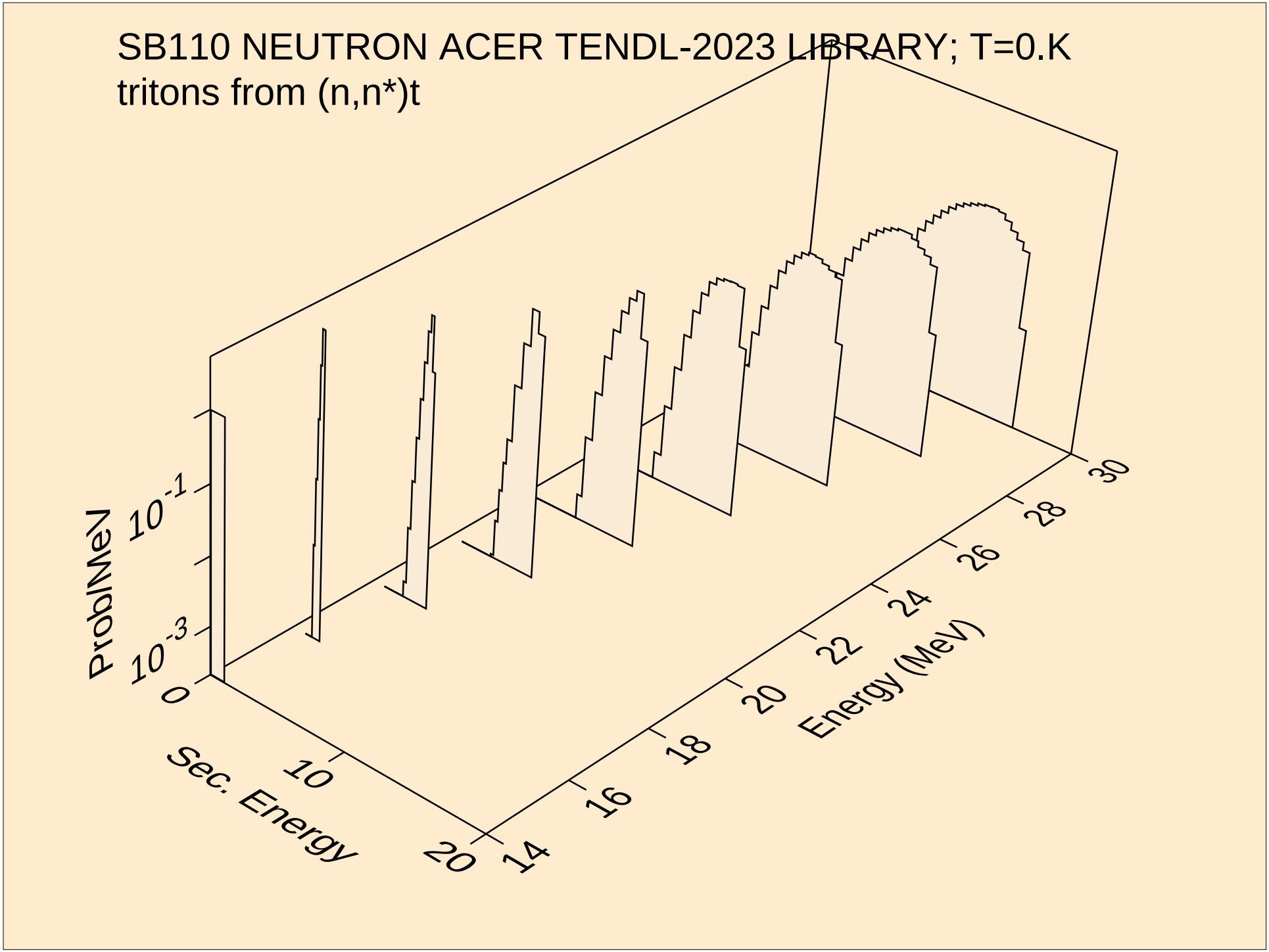

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (n,d)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)

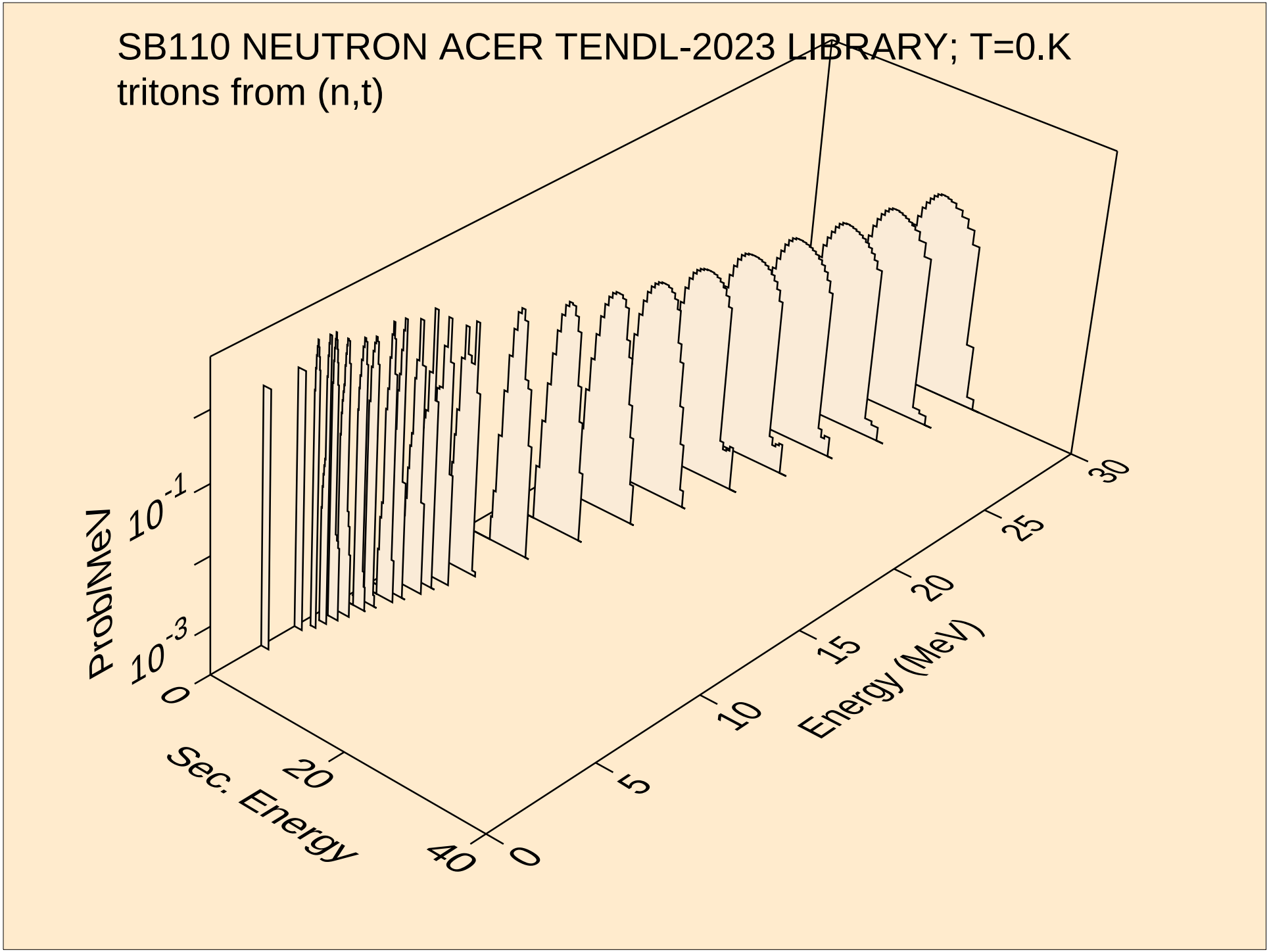

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (n,d2a)
Prob/MeV
10^0
10^-2
10^-4
Sec. Energy
0
10
20
Energy (MeV)
0
5
10
15
20
25
30

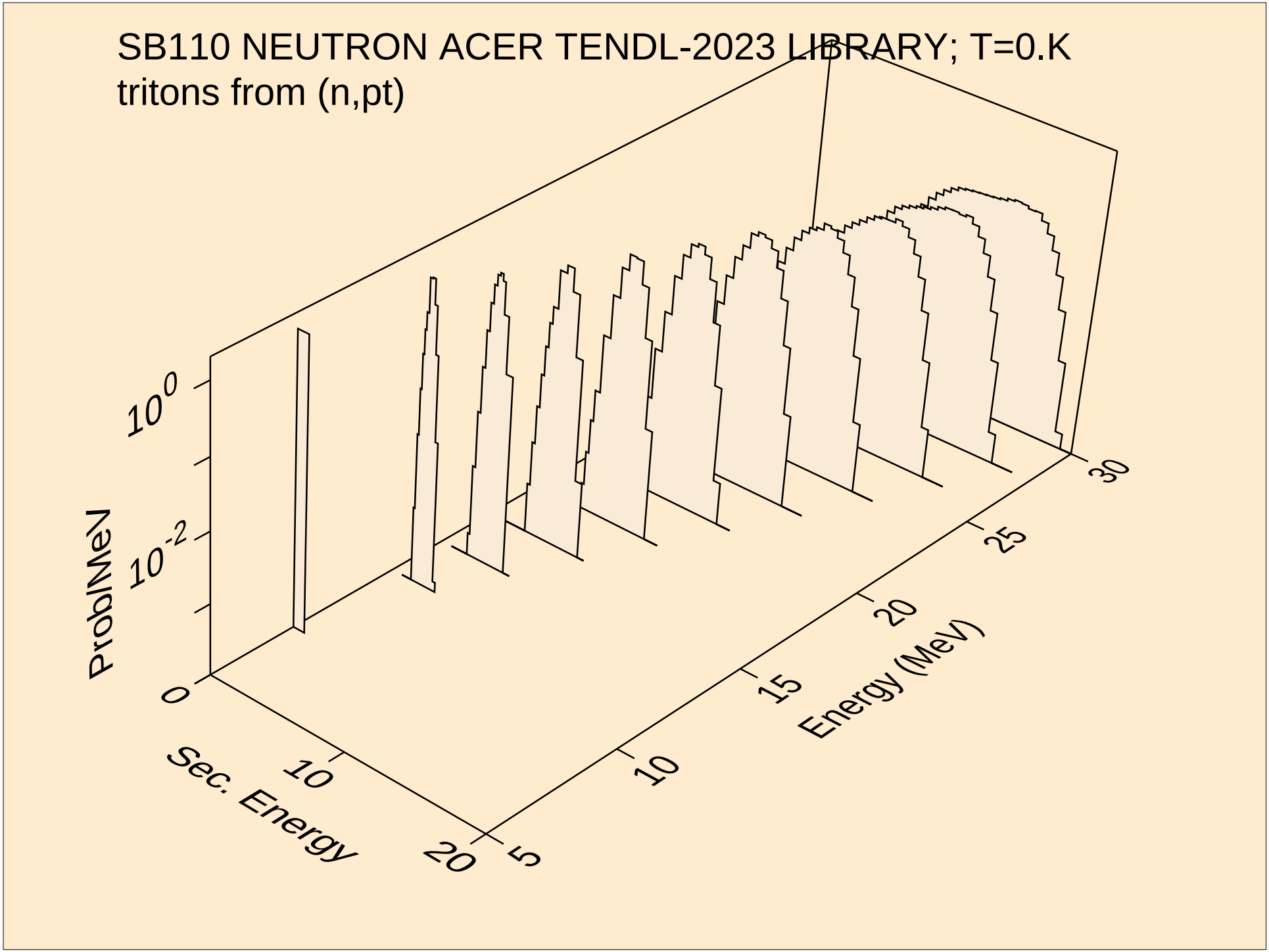

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (n,pd)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
5
10
15
20
25
30
Energy (MeV)

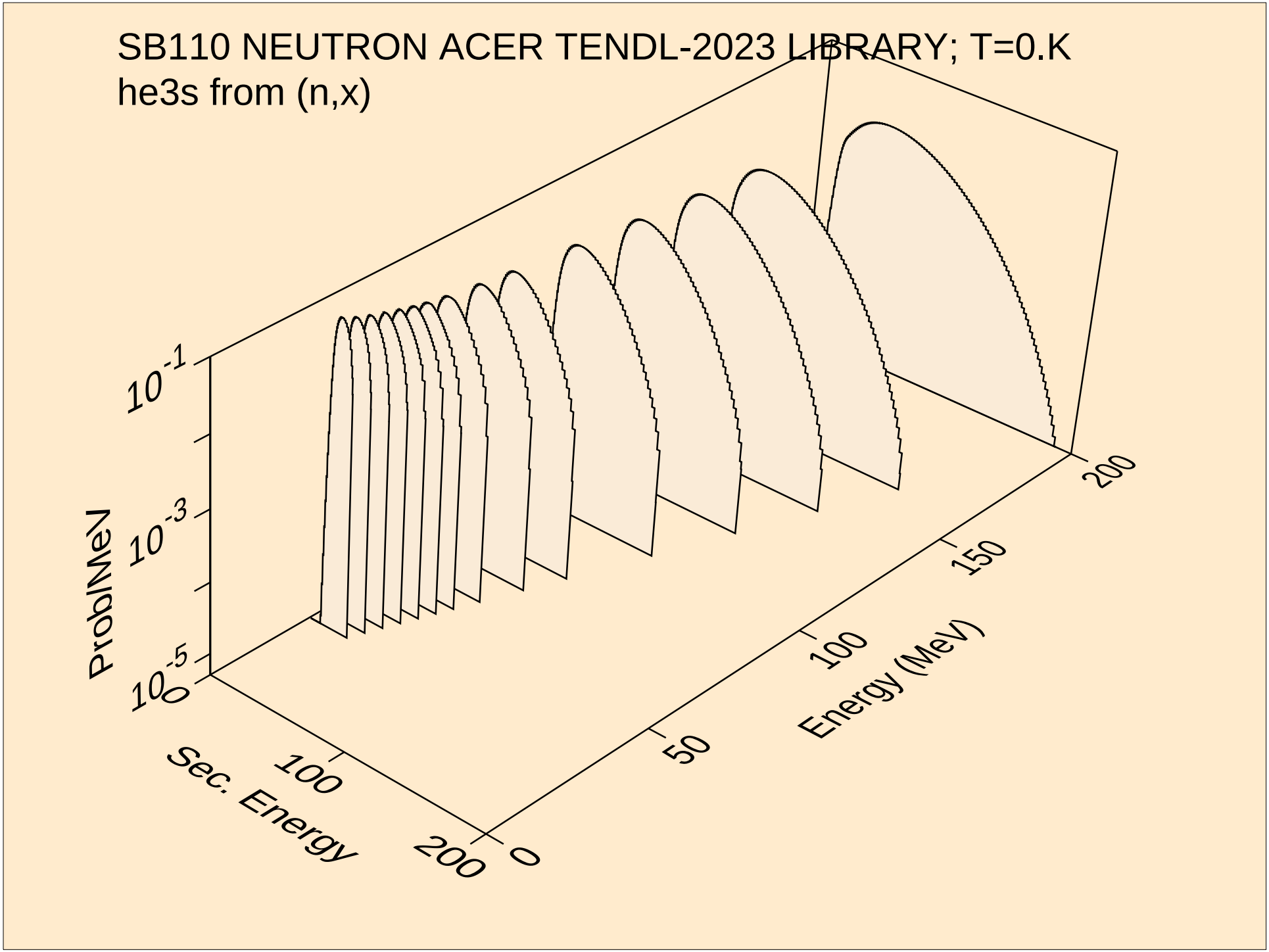

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (n,da)
Prob/MeV
10^0
10^-2
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)

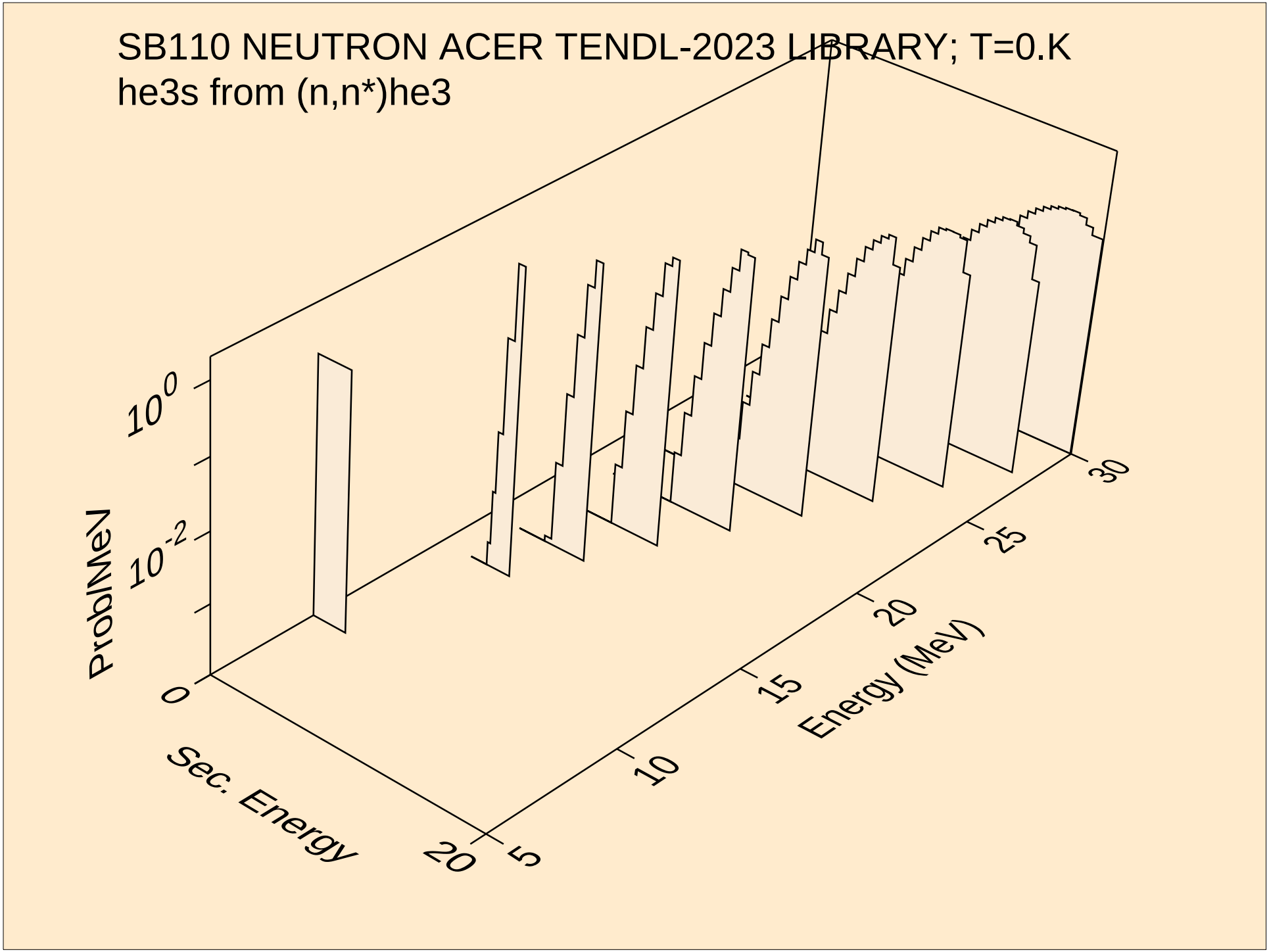

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
tritons from (n,x)
Prob/MeV
10-1
10-3
10-5
0
100
200
Sec. Energy
0
50
100
150
200
Energy (MeV)

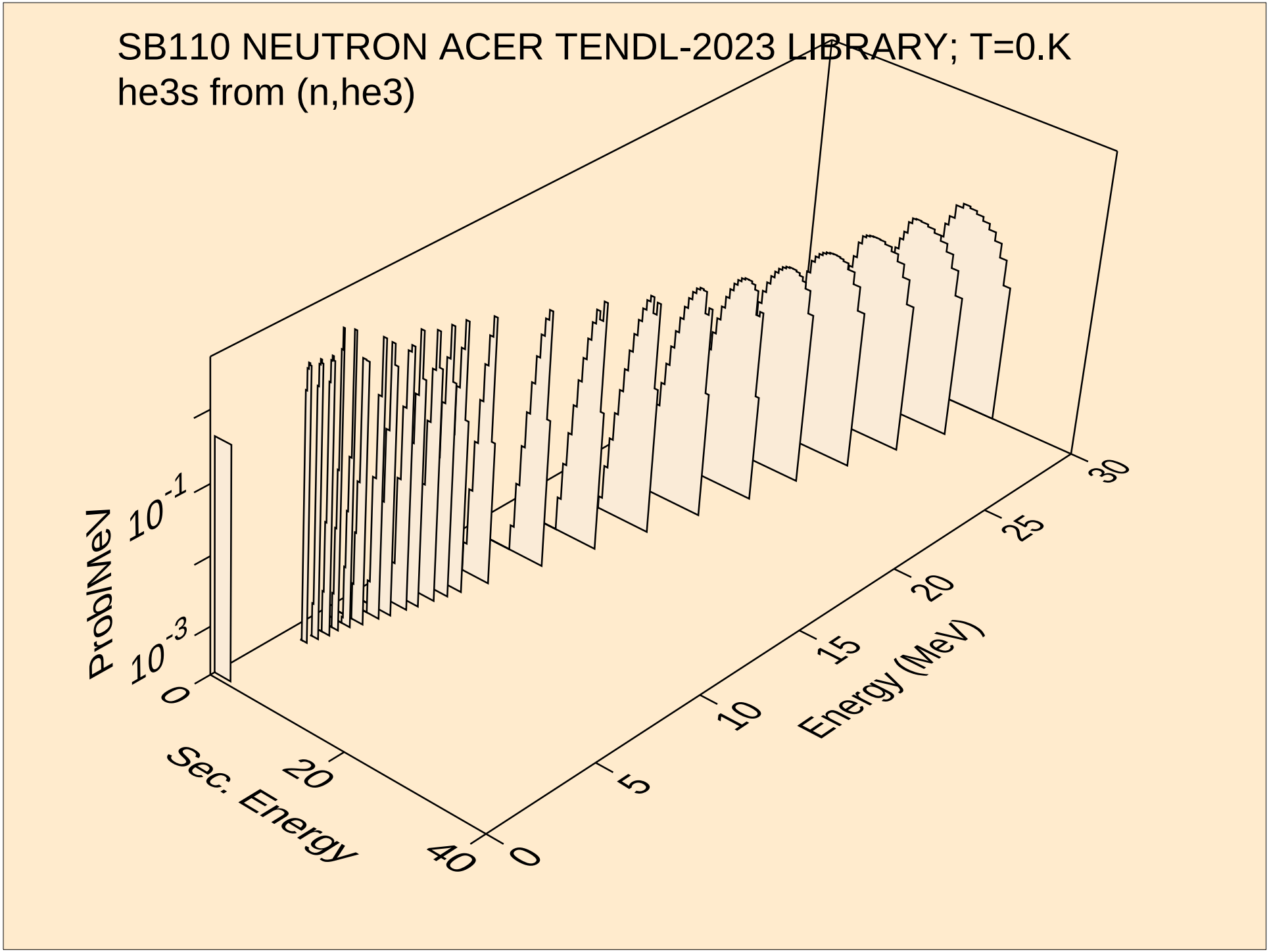

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
tritons from (n,n*)t
Prob/MeV
10-1
10-3
0
Sec. Energy
10
20
14
16
18
20
22
24
26
28
30
Energy (MeV)

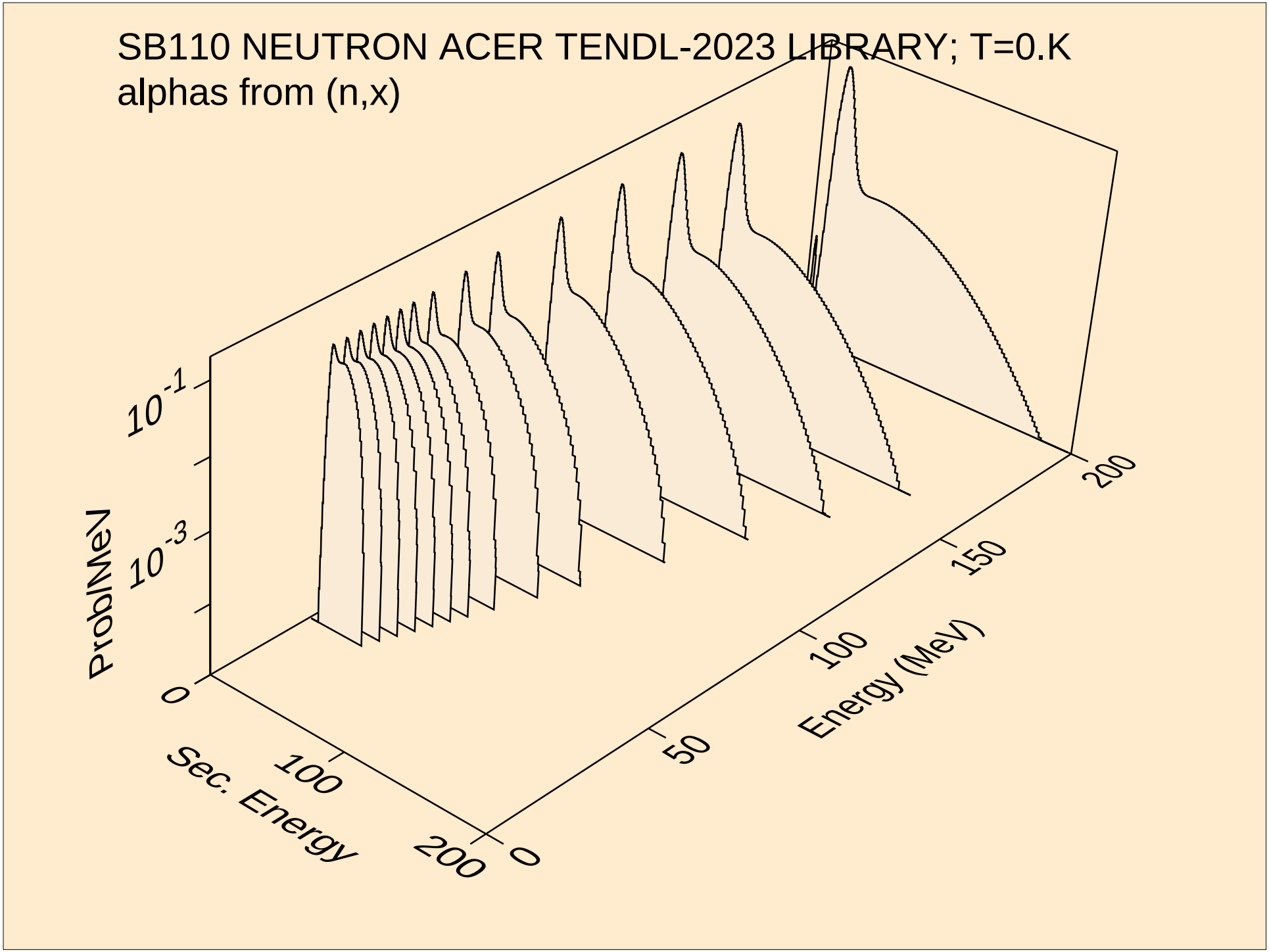

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
tritons from (n,t)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)

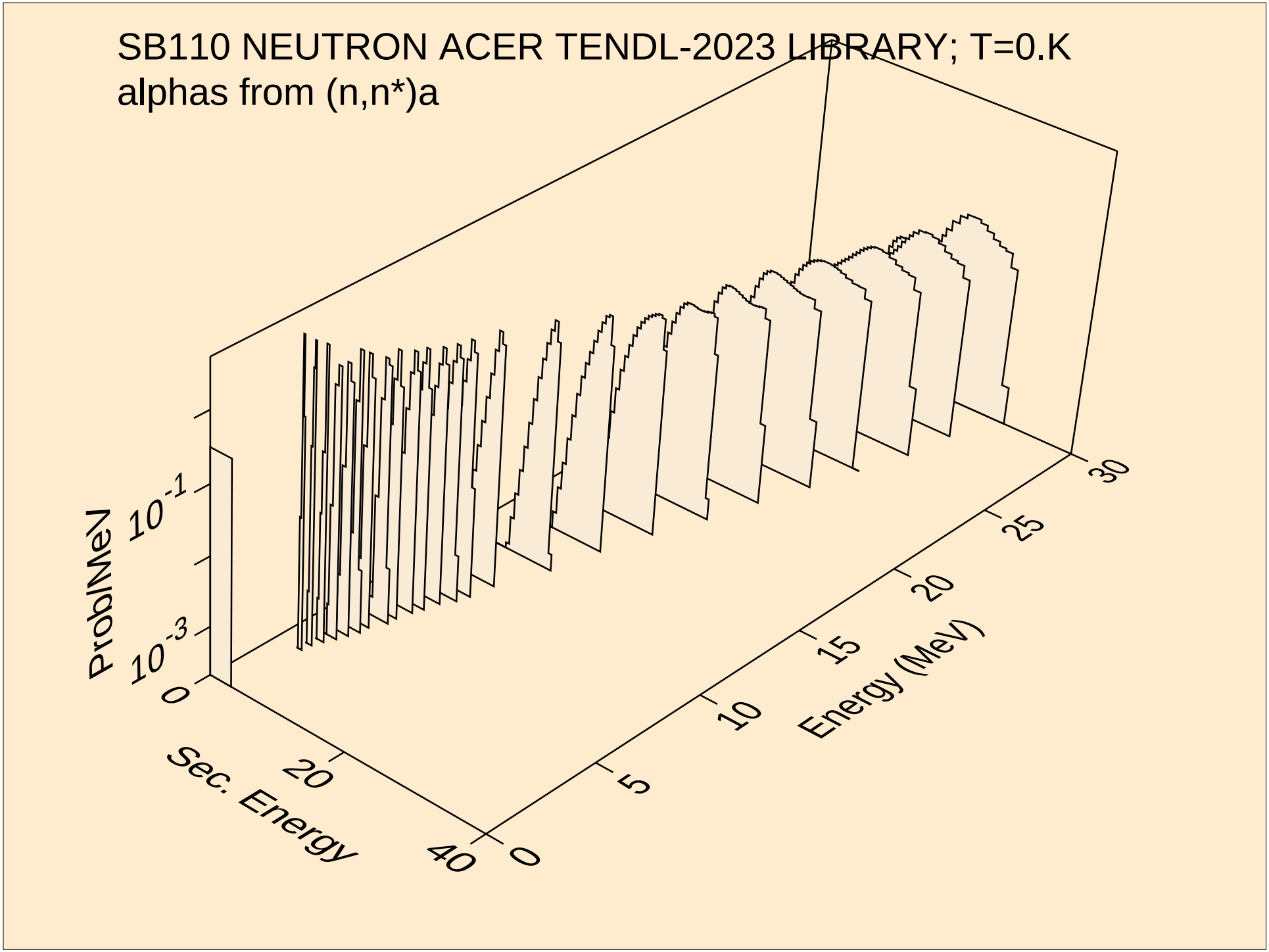

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
tritons from (n,pt)
Prob/MeV
10^0
10^-2
0
Sec. Energy
10
20
5
10
15
20
25
30
Energy (MeV)

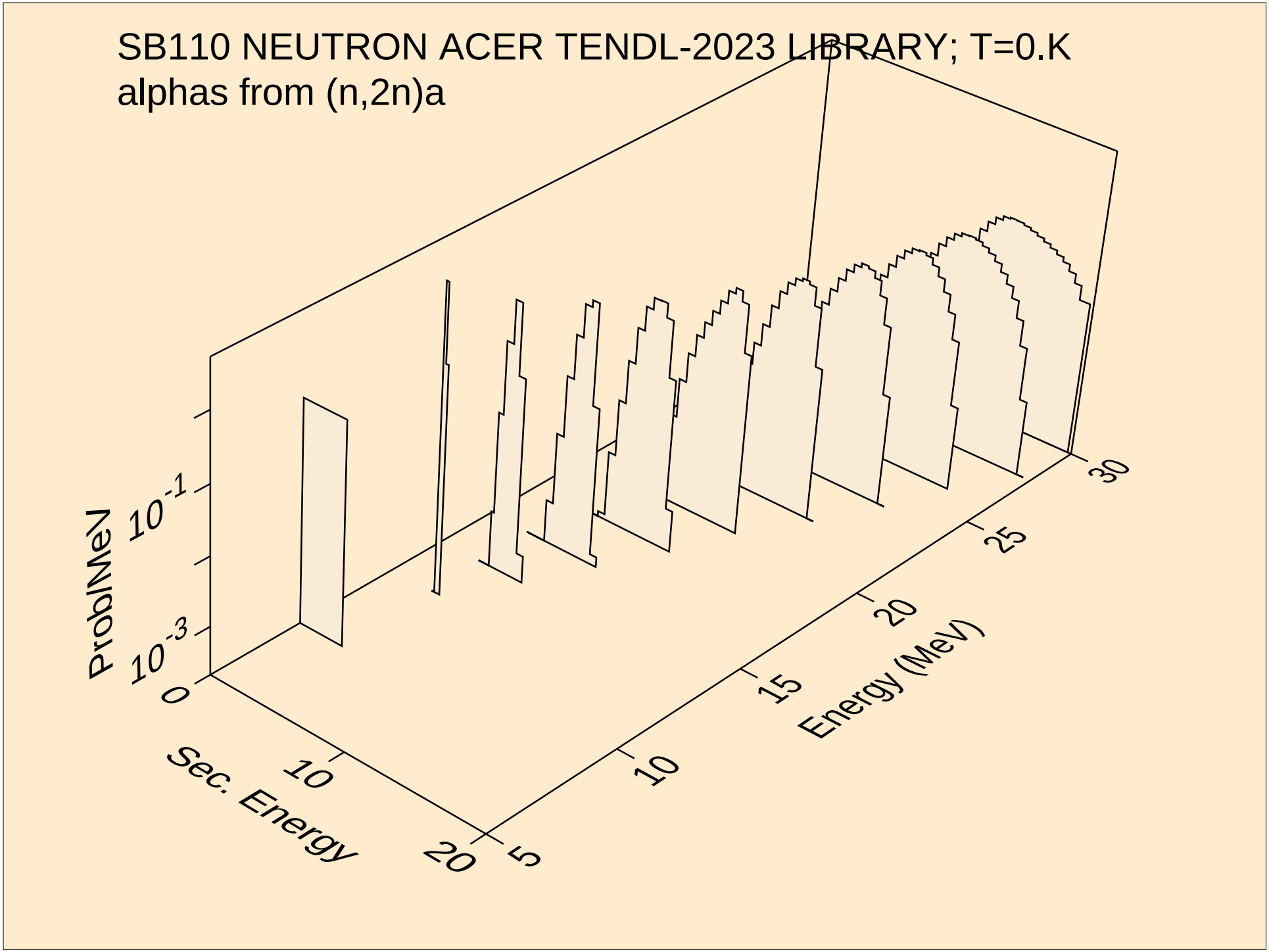

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
he3s from (n,x)
Prob/MeV
10-1
10-3
10-5
0
100
200
Sec. Energy
0
50
100
150
200
Energy (MeV)

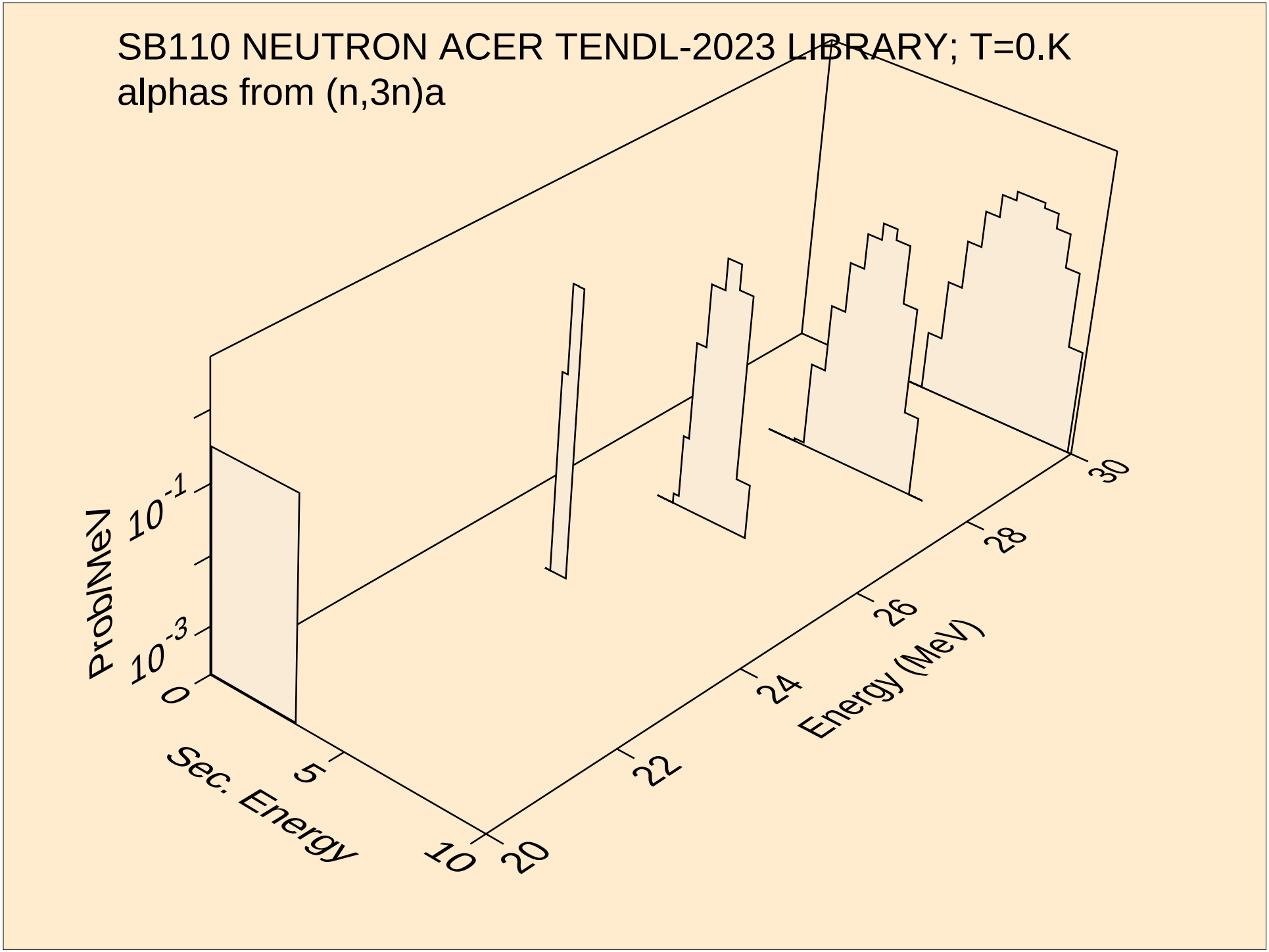

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
he3s from (n,n*)he3
Prob/MeV
10^0
10^-2
0
Sec. Energy
20
5
10
15
20
25
30
Energy (MeV)

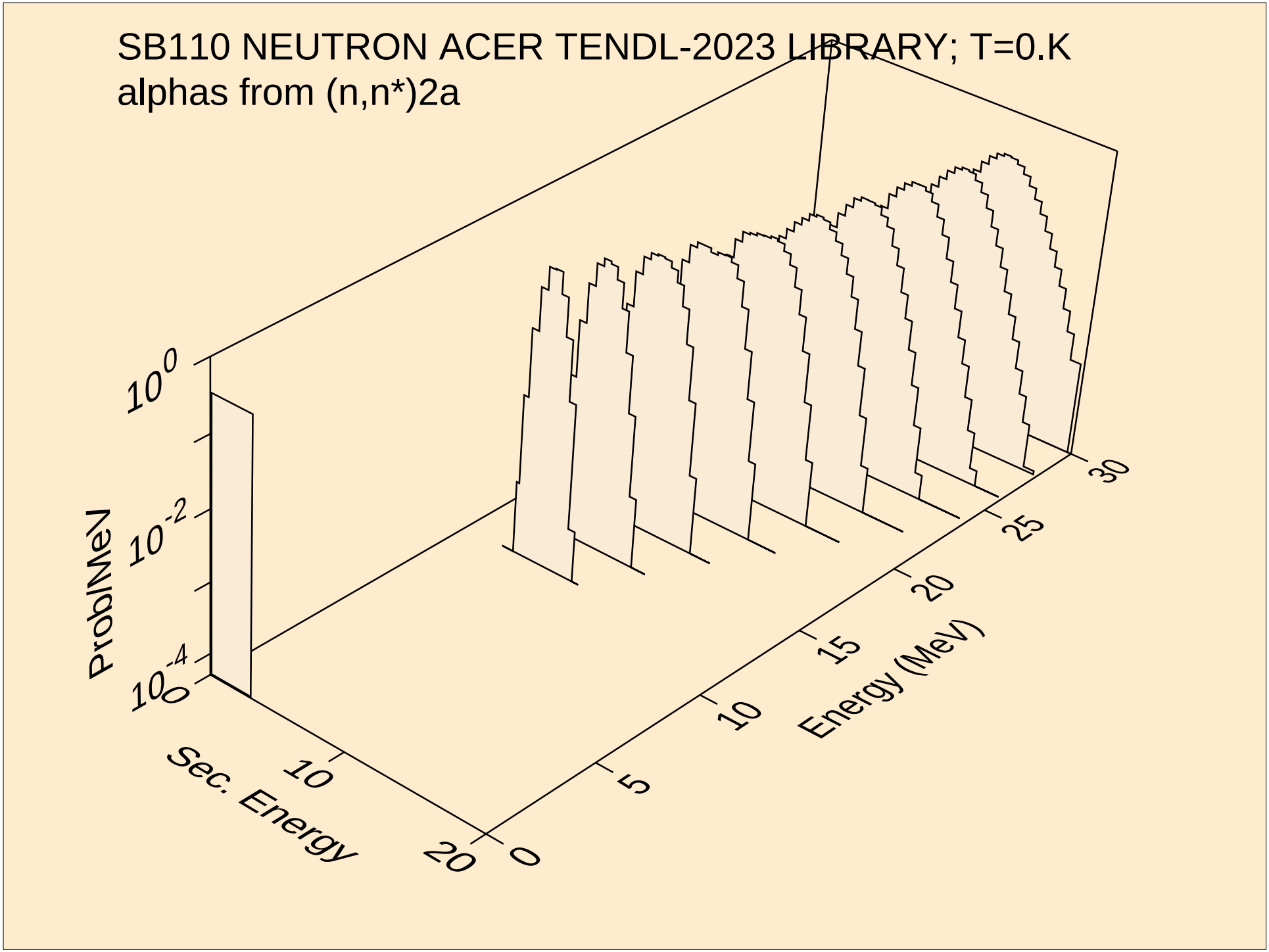

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
he3s from (n,he3)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)

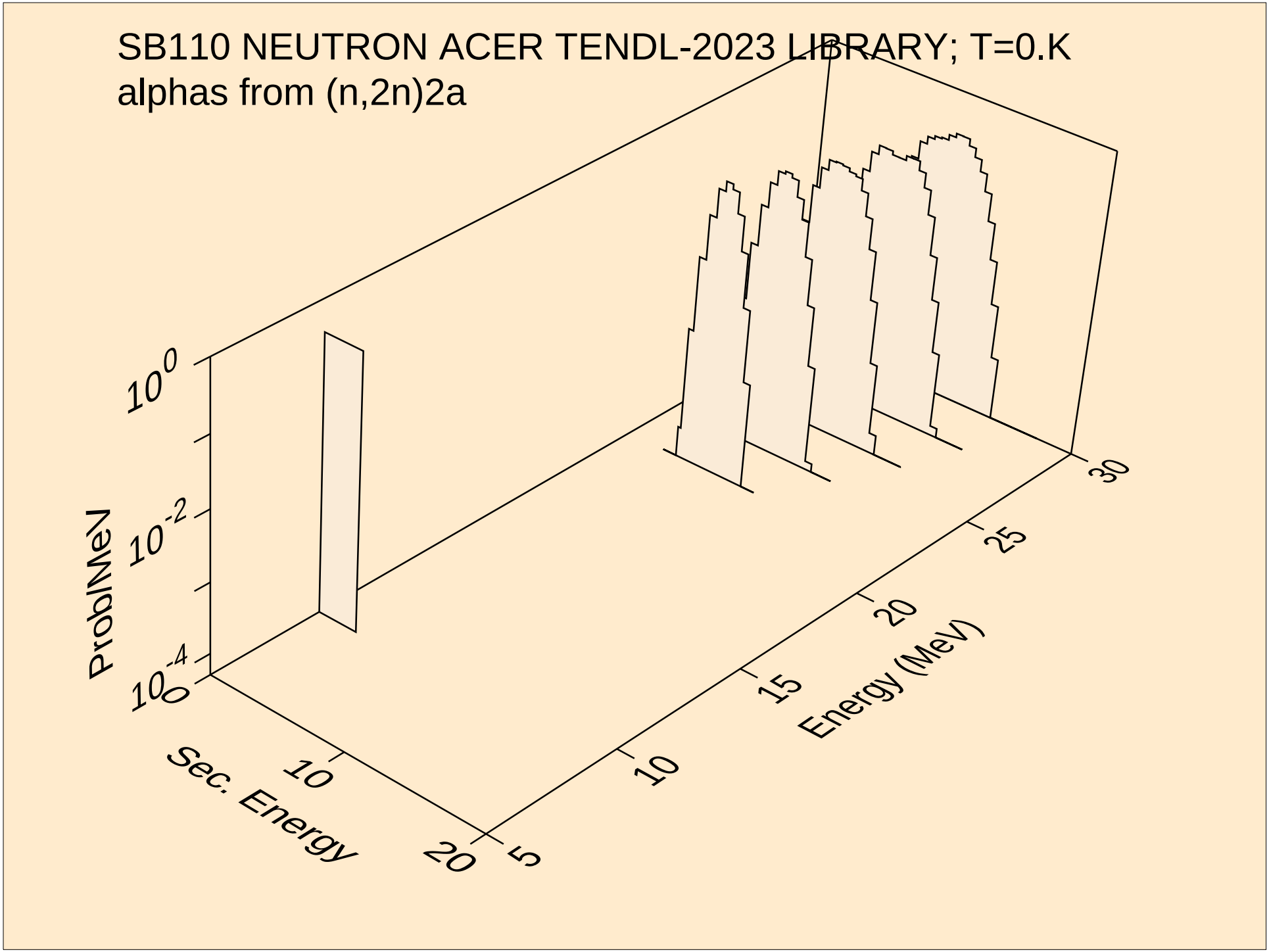

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,x)
Prob/MeV
10-1
10-3
0
Sec. Energy
100
200
0
50
100
150
200
Energy (MeV)

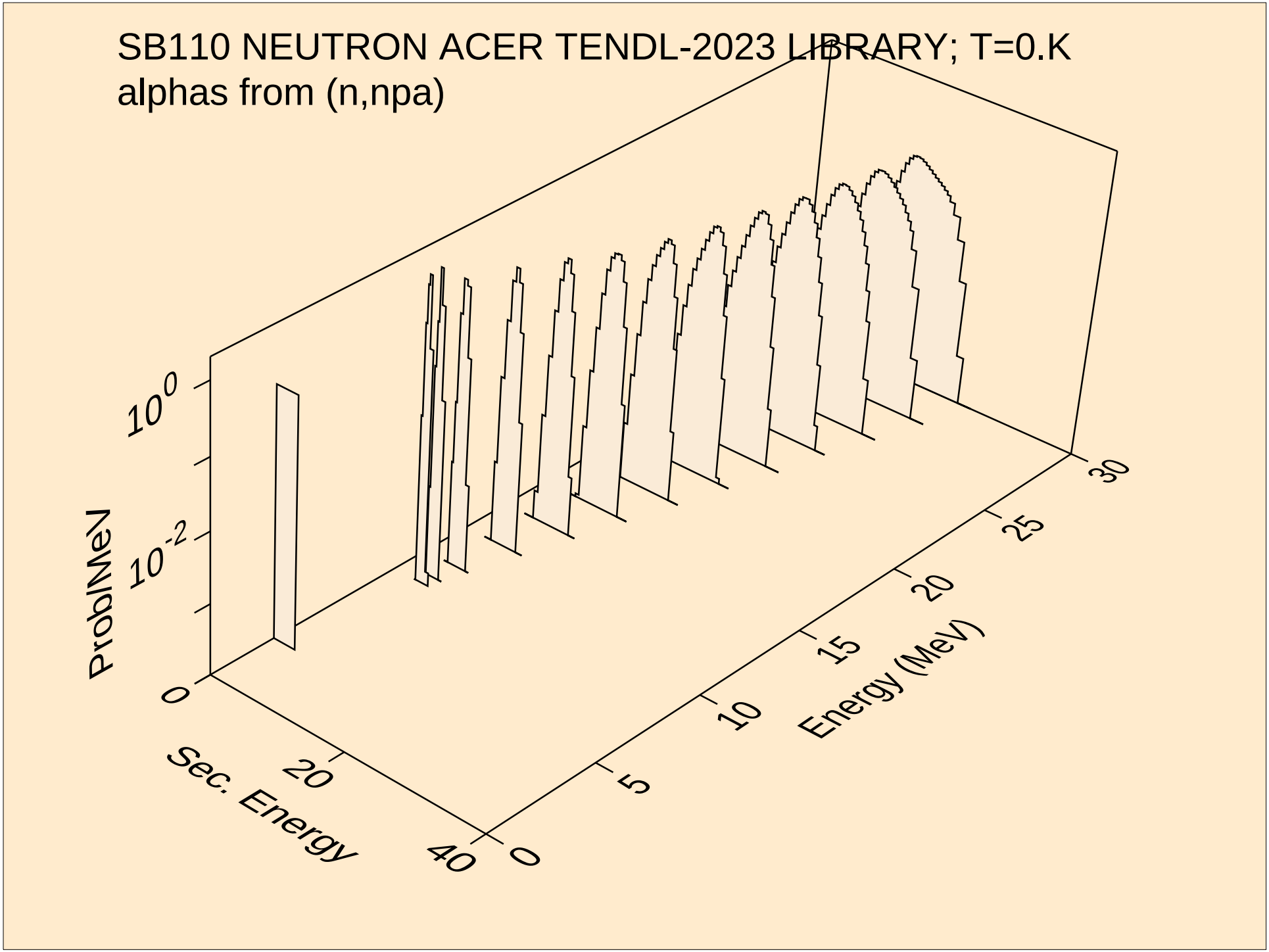

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,n*)a
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)

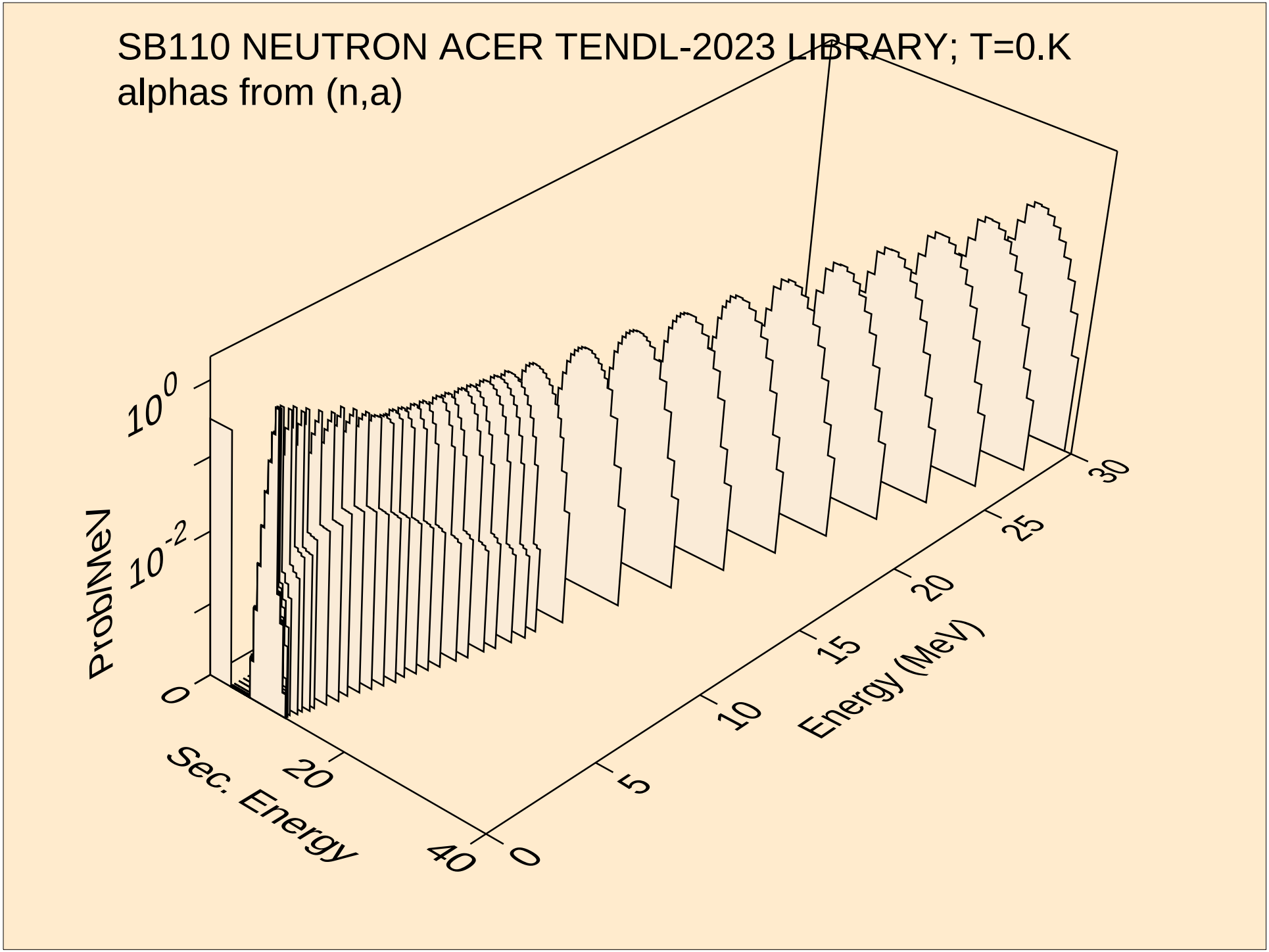

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,2n)a
Prob/MeV
10-1
10-3
0
Sec. Energy
10
20
5
10
15
20
25
30
Energy (MeV)

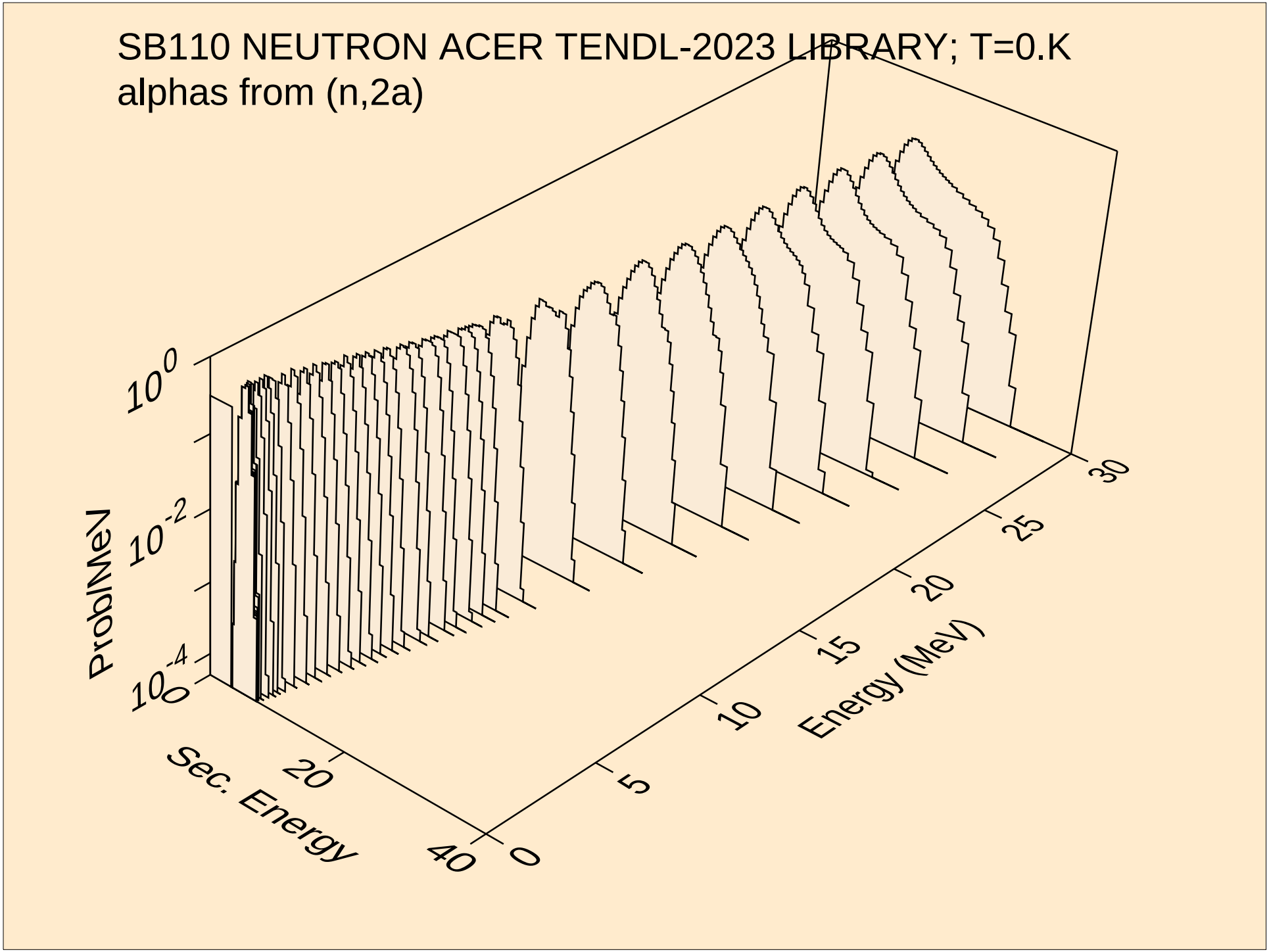

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,3n)a
Prob/MeV
10-1
10-3
0
Sec. Energy
5
10
20
22
24
26
28
30
Energy (MeV)

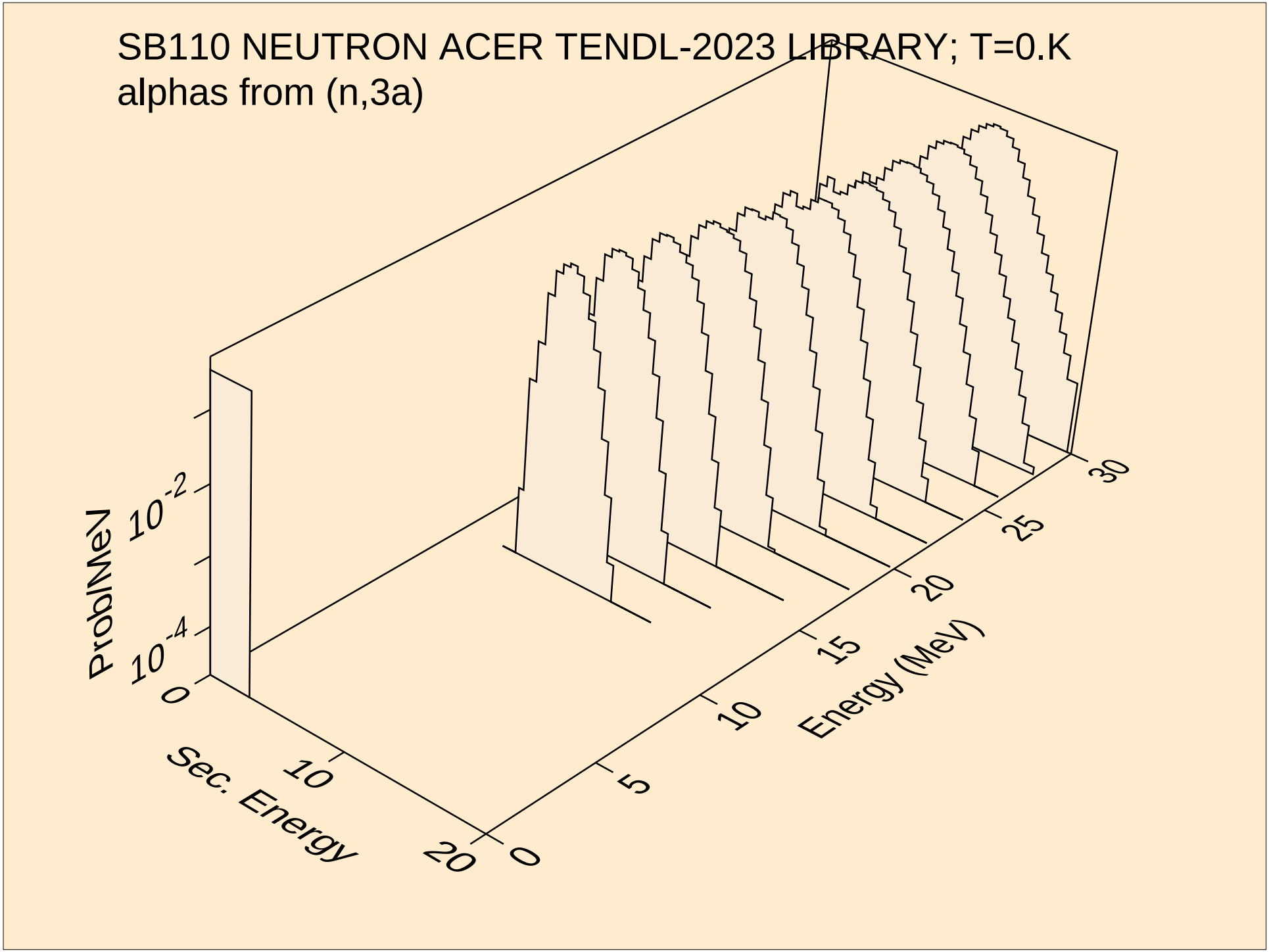

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,n*)2a
Prob/MeV
10^0
10^-2
10^-4
Sec. Energy
0
10
20
Energy (MeV)
0
5
10
15
20
25
30

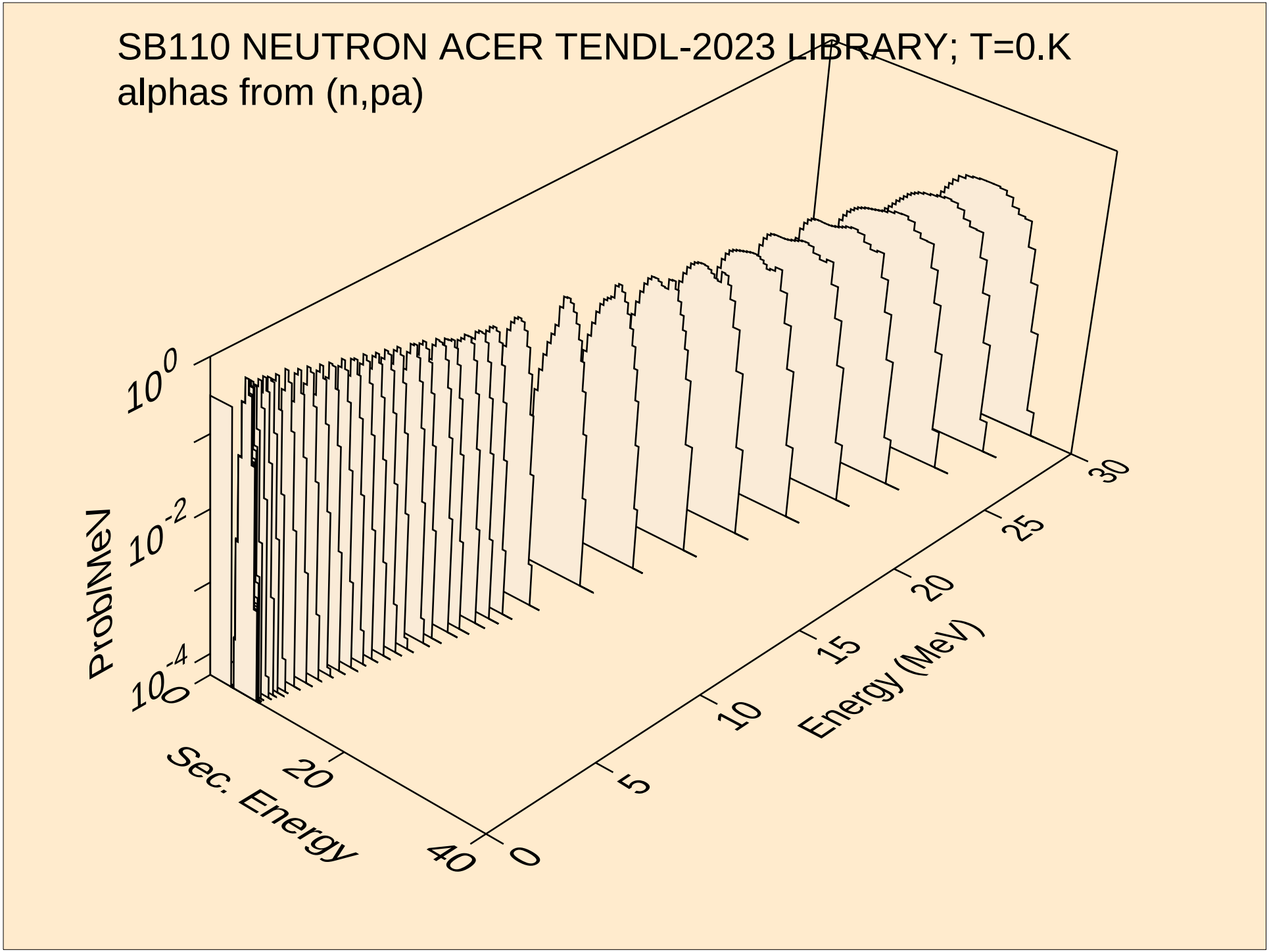

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,2n)2a
Prob/MeV
10^0
10^-2
10^-4
0
10
20
Sec. Energy
5
10
15
20
25
30
Energy (MeV)

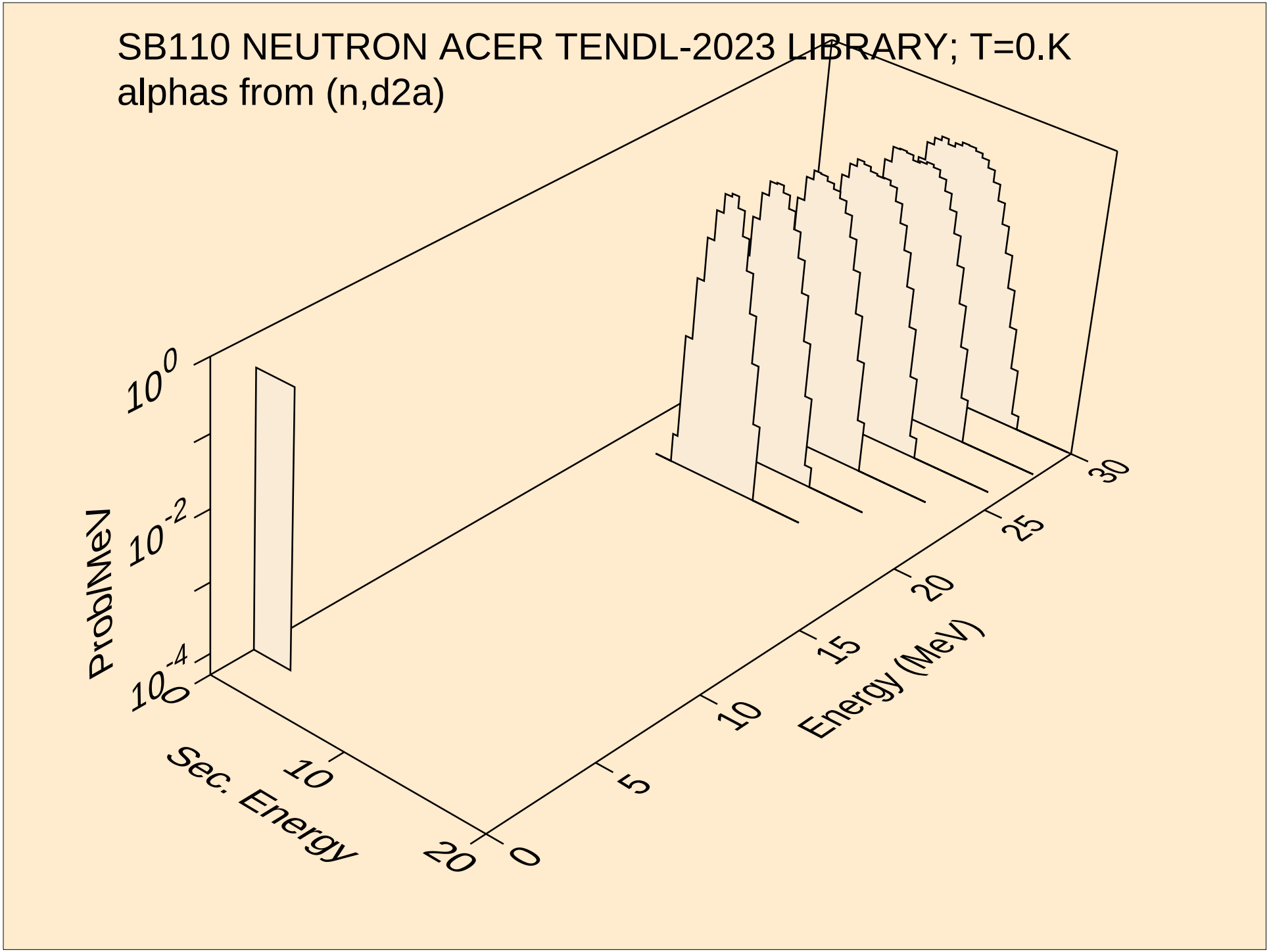

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,npa)
Prob/MeV
10^0
10^-2
0
Sec. Energy
20
40
0
5
10
15
Energy (MeV)
20
25
30

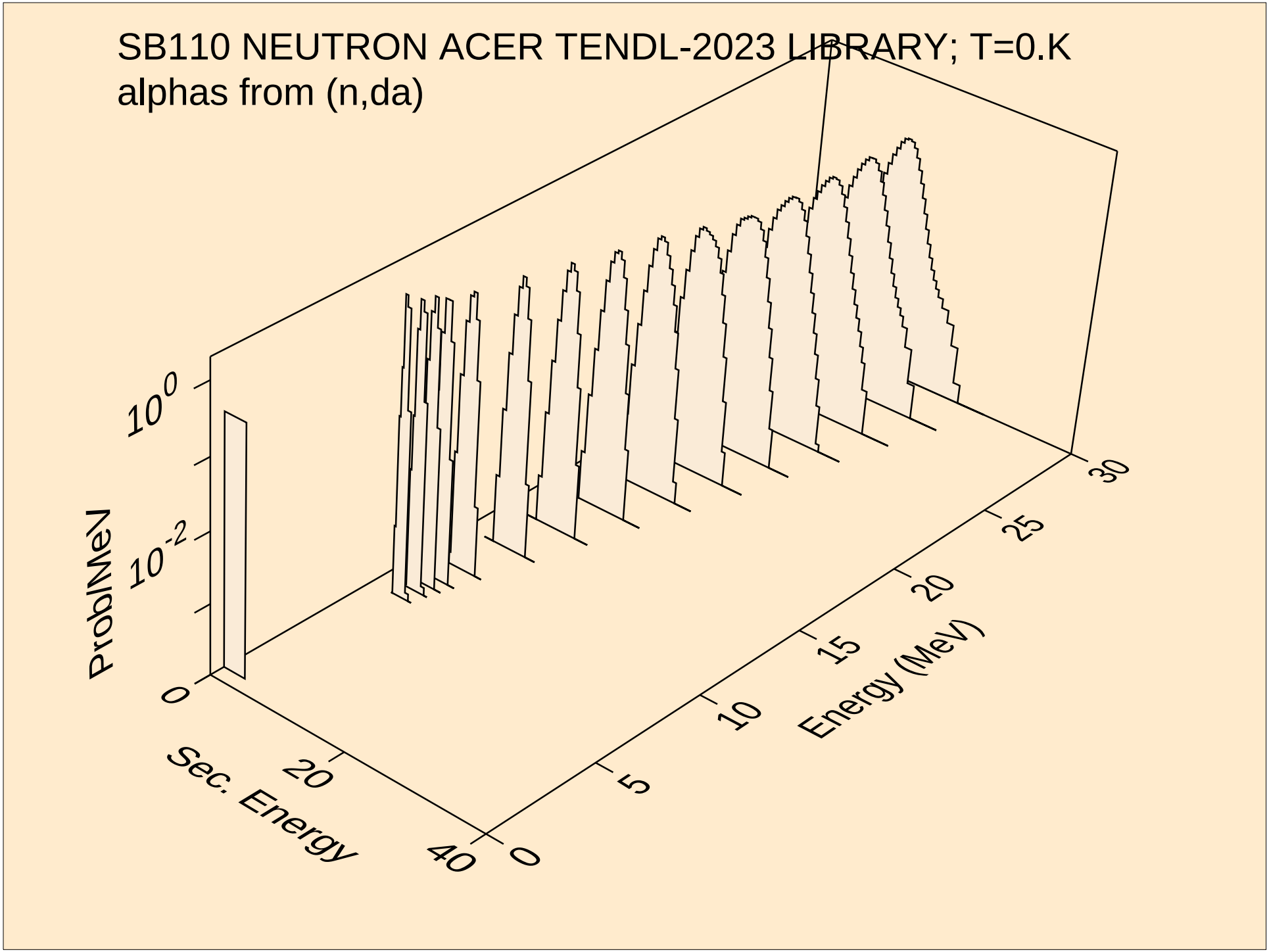

SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,a)
Prob/MeV
10^0
10^-2
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)


SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,2a)
Prob/MeV
10^0
10^-2
10^-4
0
20
40
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)


SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,3a)
Prob/MeV
10-2
10-4
0
Sec. Energy
10
20
0
5
10
15
20
25
30
Energy (MeV)


SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,pa)
Prob/MeV
10^{0}
10^{-2}
10^{-4}
0
20
40
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)


SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,d2a)
Prob/MeV
10^0
10^-2
10^-4
0
10
20
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)


SB110 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,da)
Prob/MeV
10^0
10^-2
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)