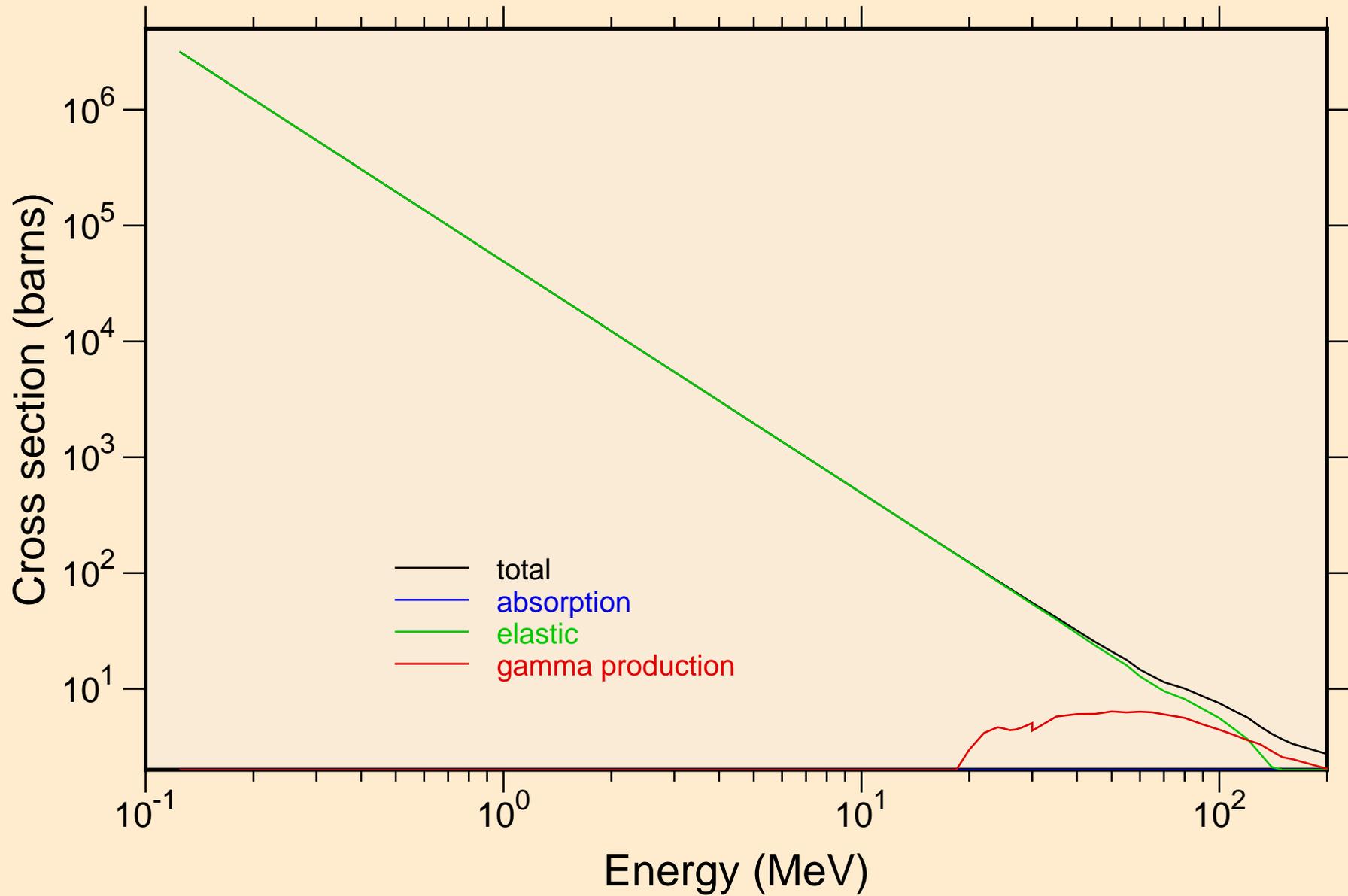TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Principal cross sections

TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
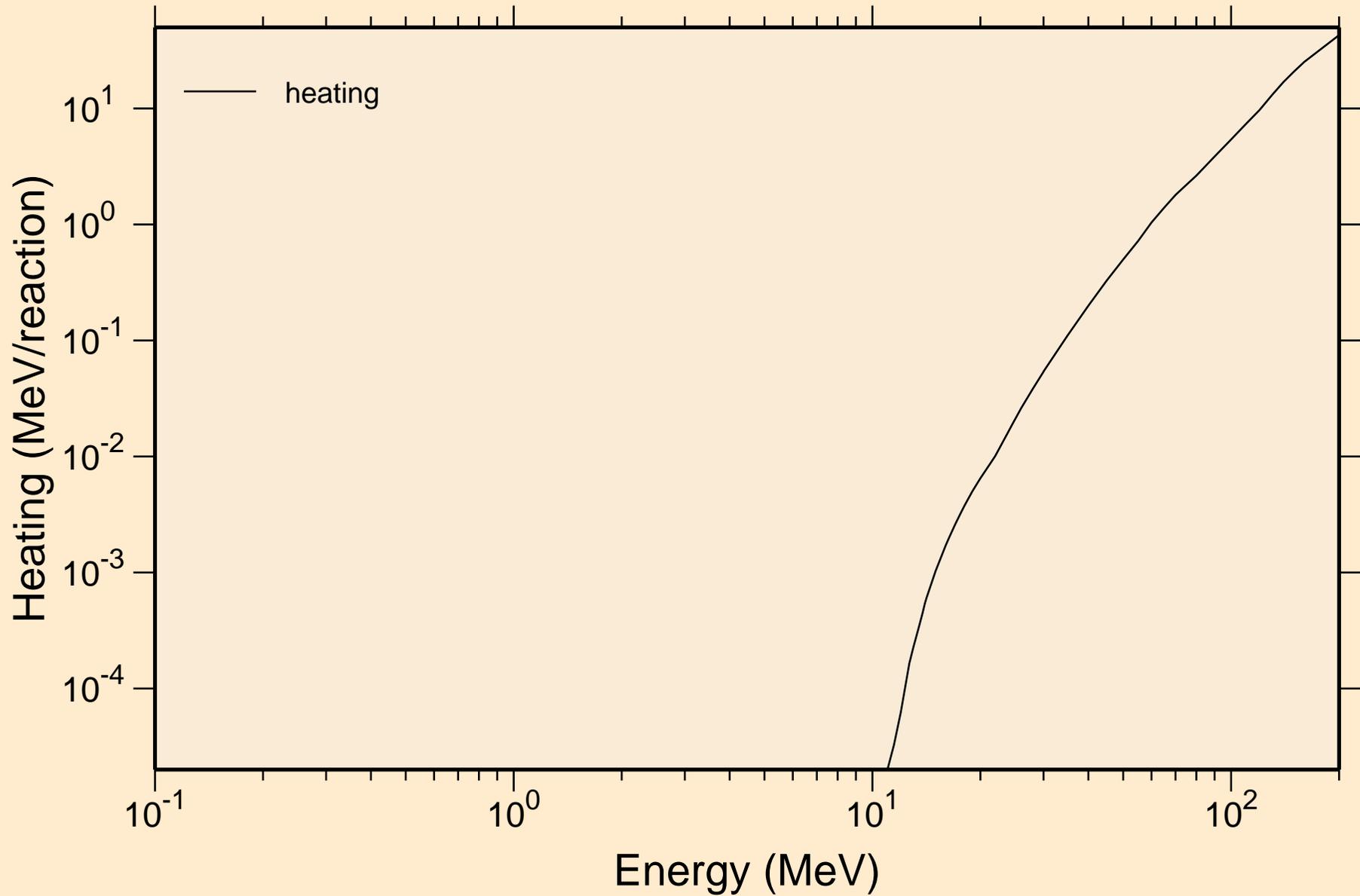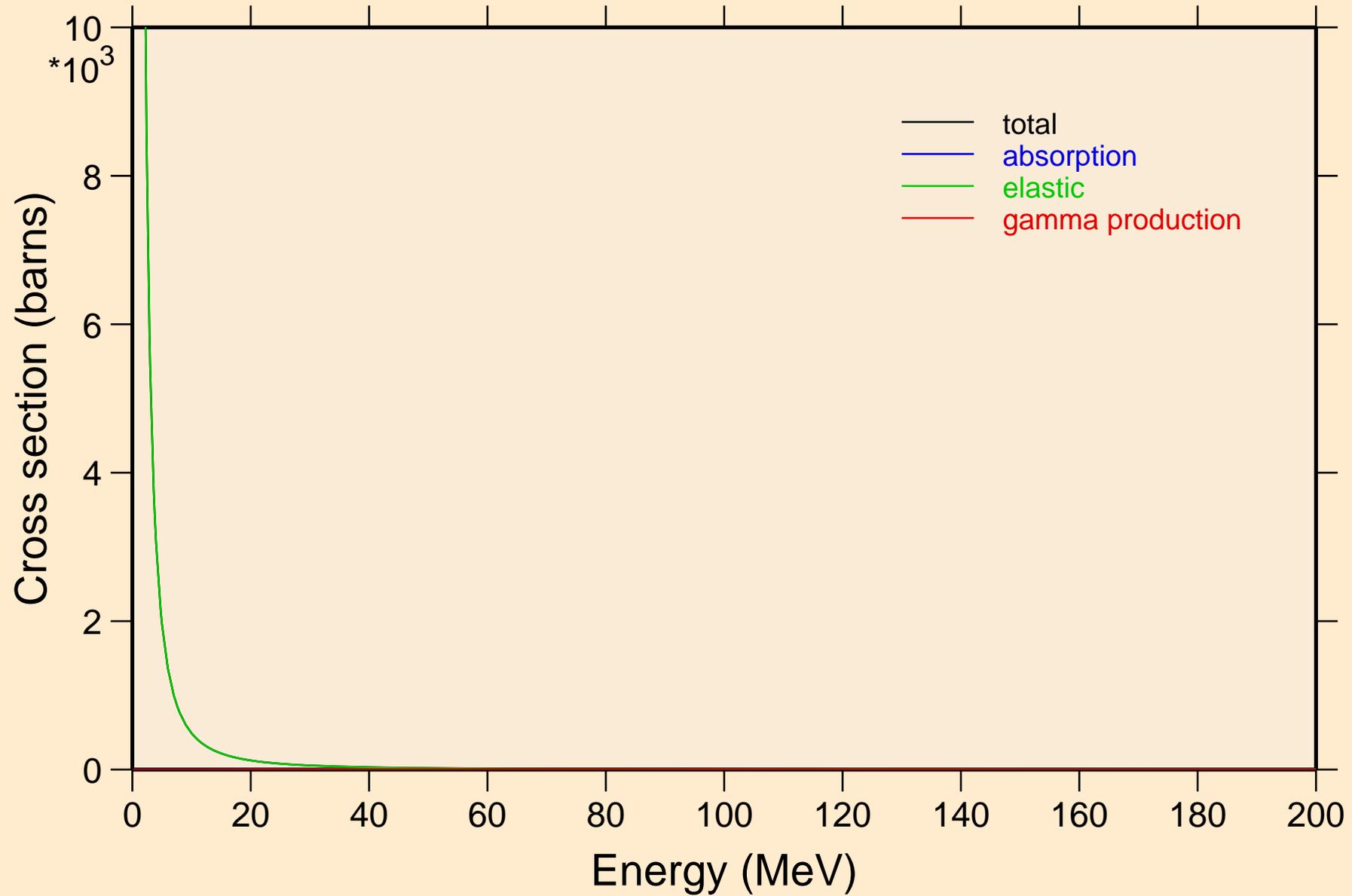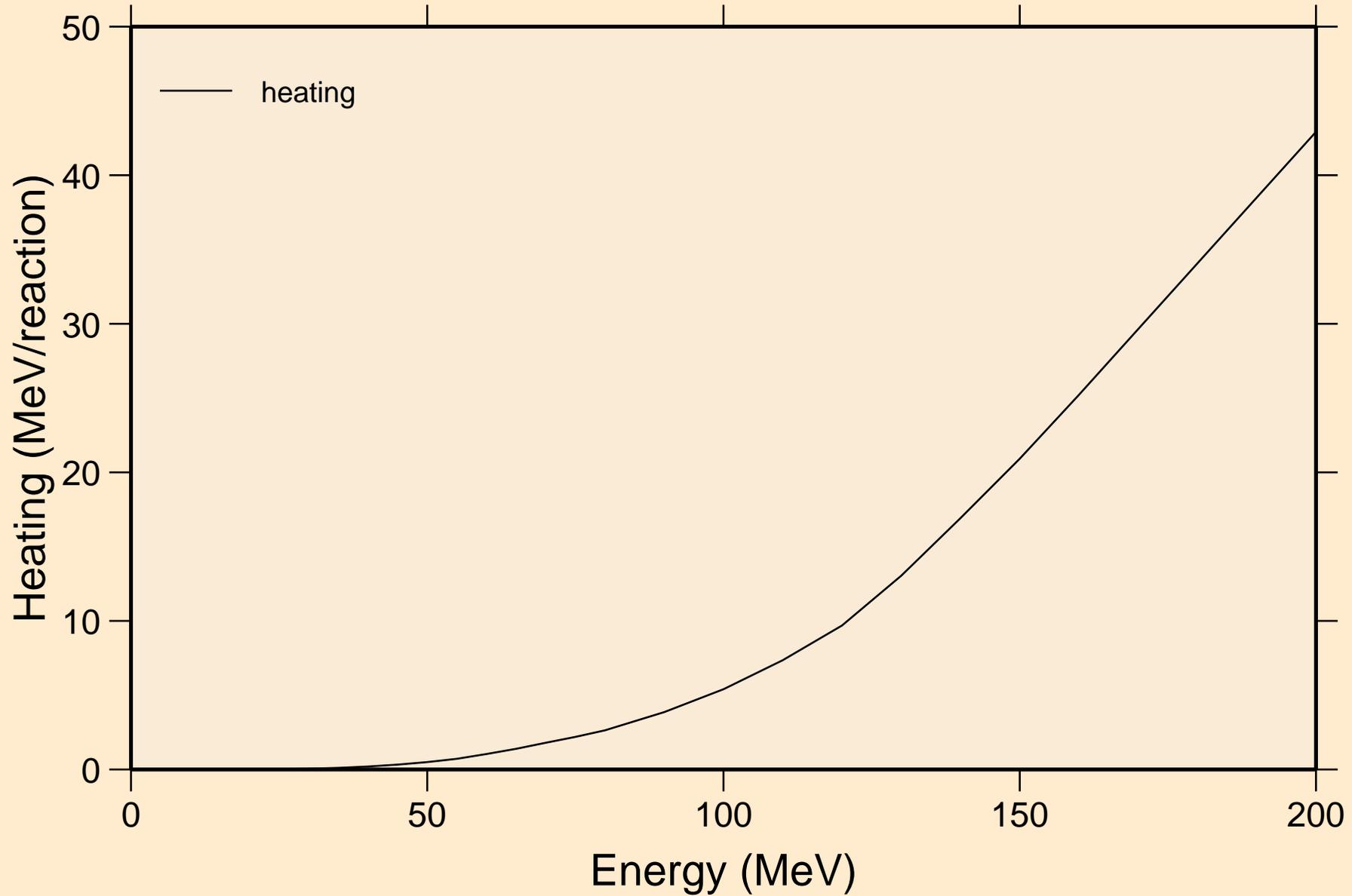Heating

heating

Heating (MeV/reaction)

Energy (MeV)

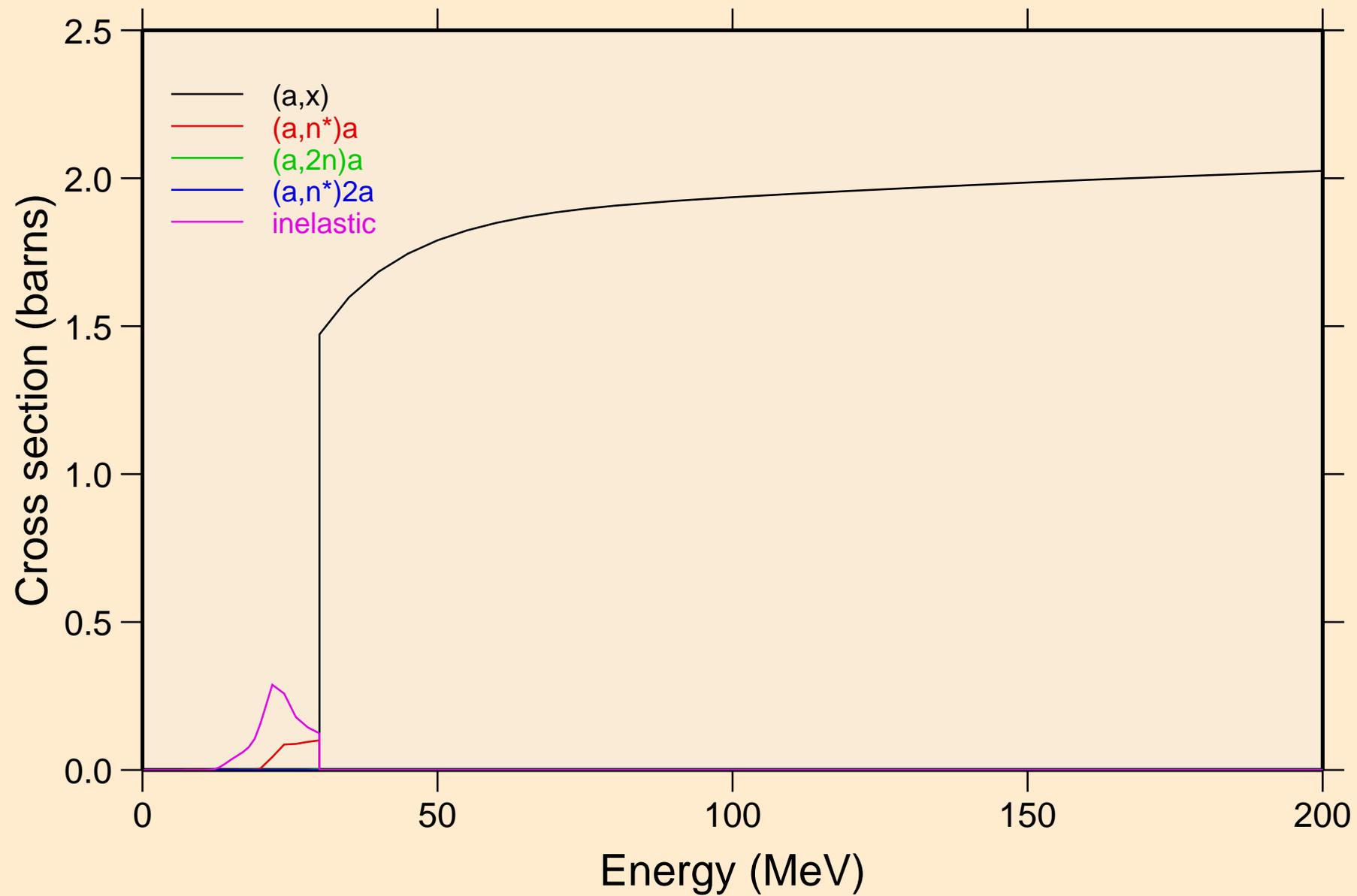TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Principal cross sections
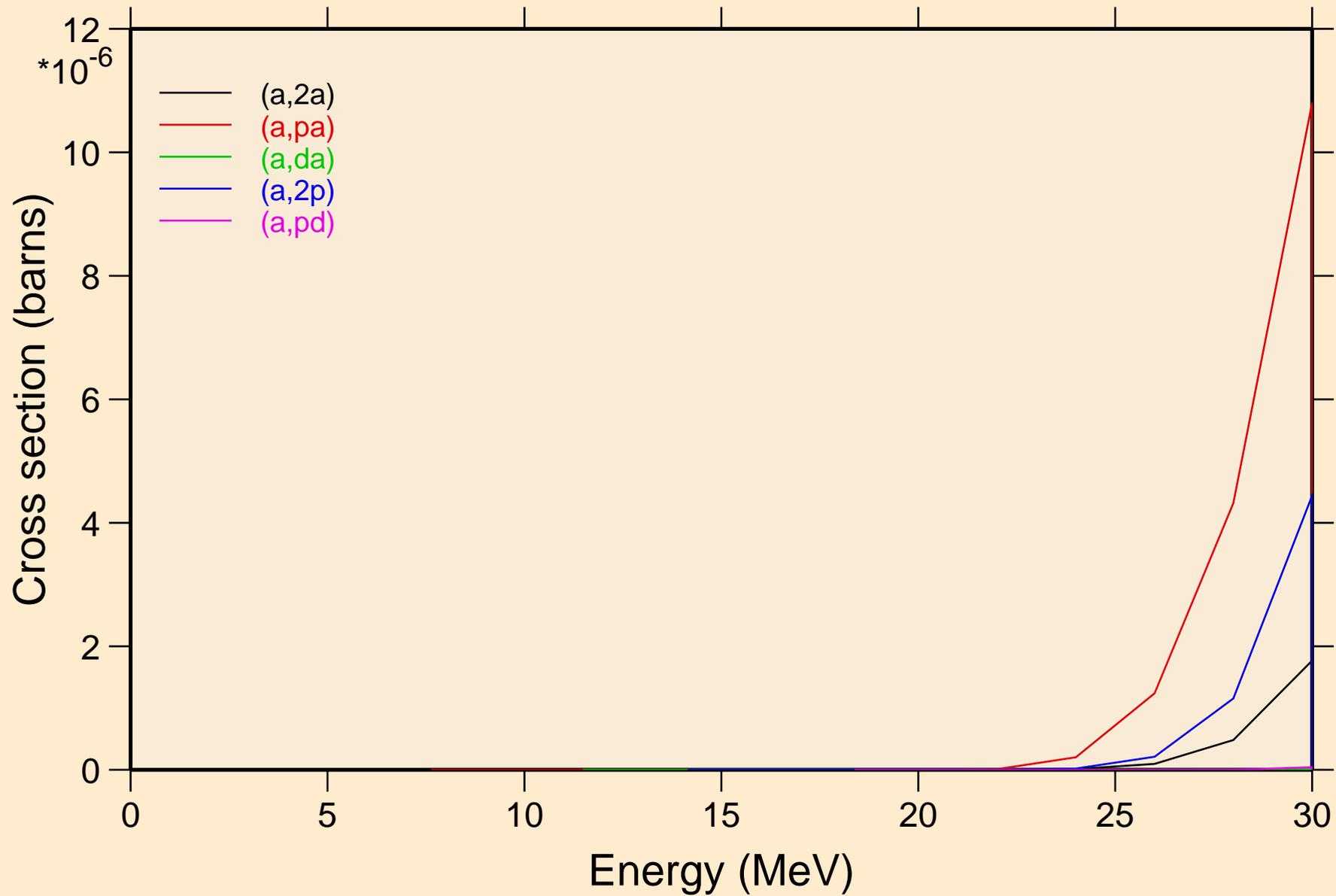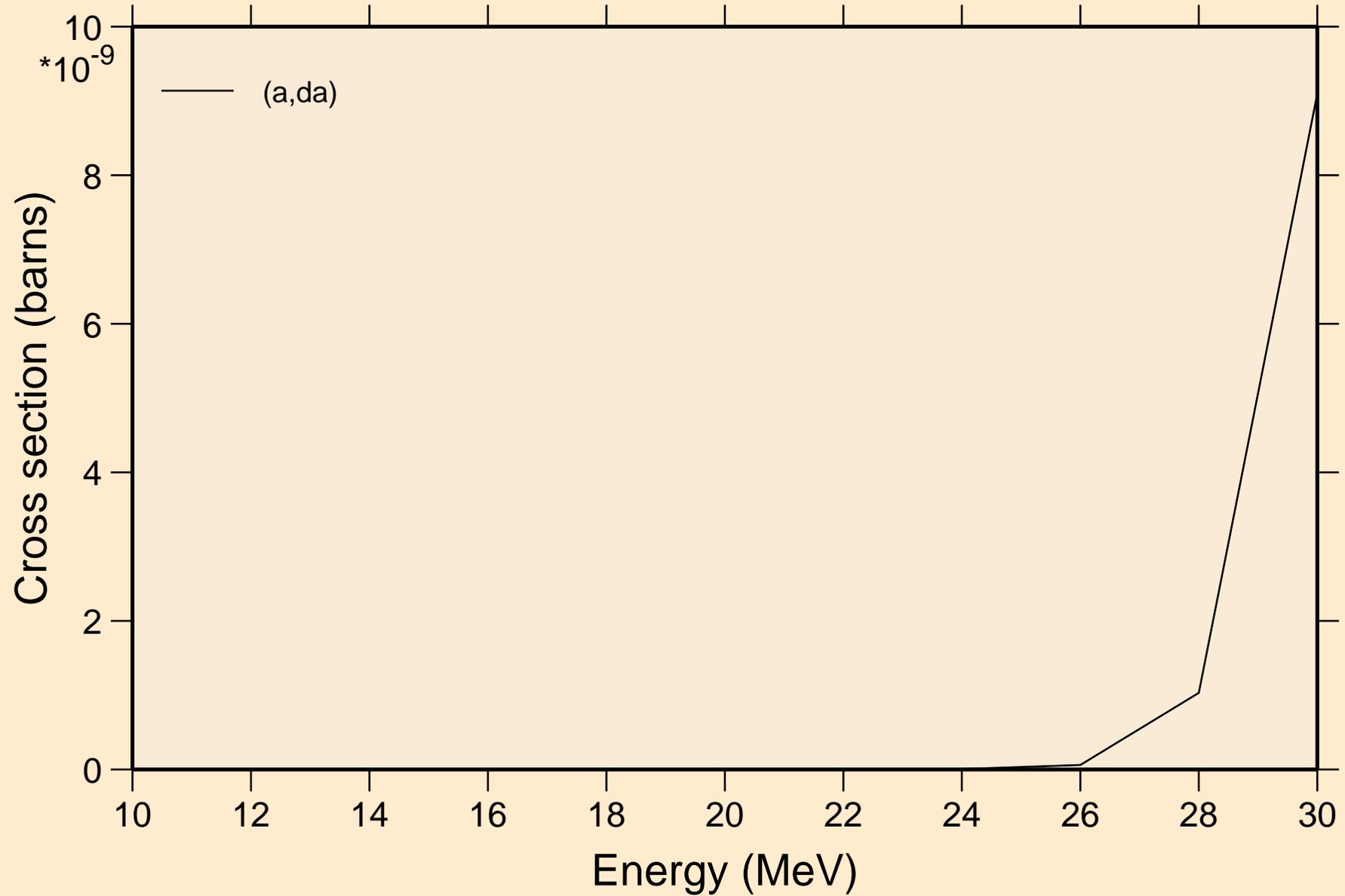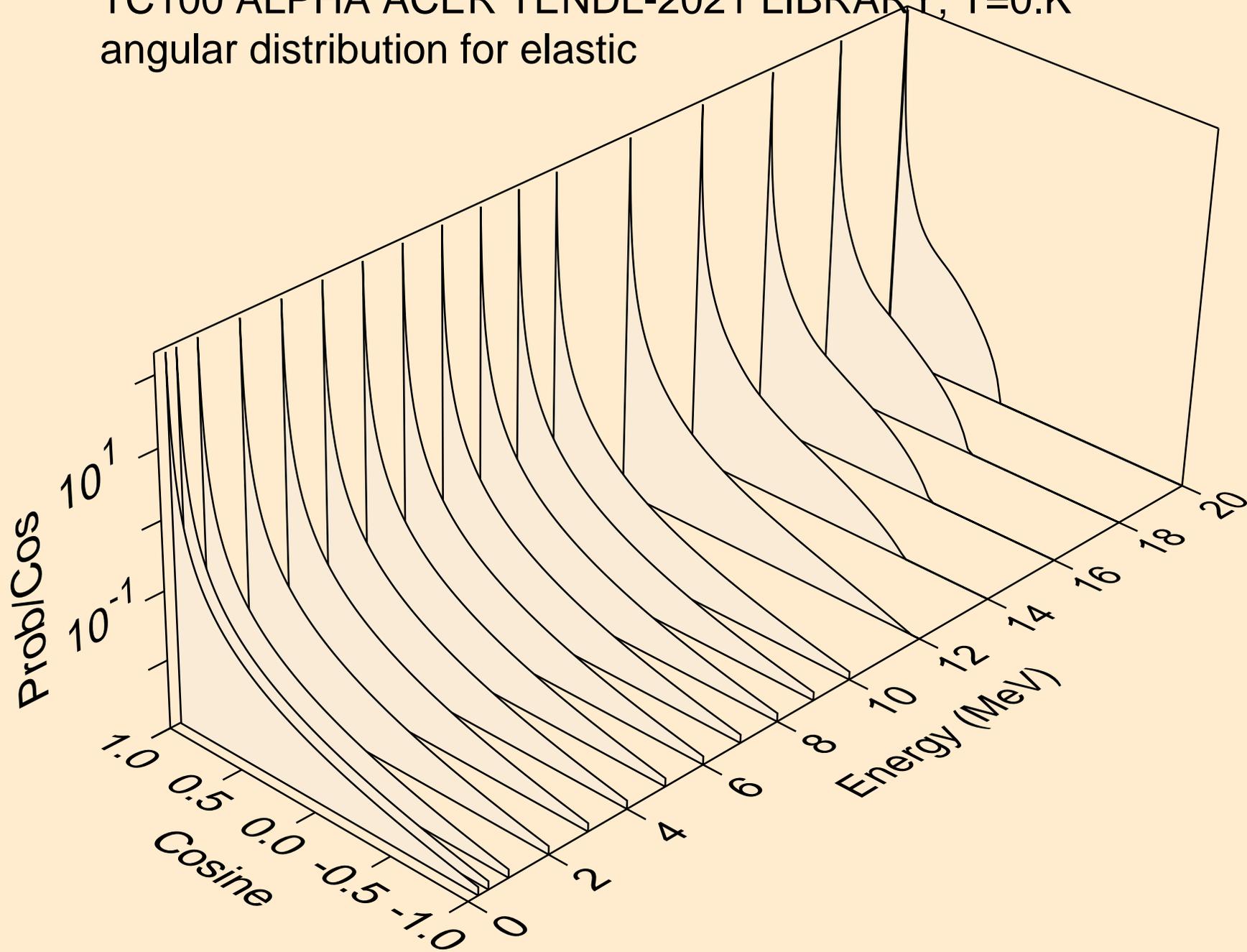
TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Heating

TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Threshold reactions

Legend:
- (a,x) — black
- (a,n*)a — red
- (a,2n)a — green
- (a,n*)2a — blue
- inelastic — magenta

X-axis: Energy (MeV)
Y-axis: Cross section (barns)

TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Threshold reactions

*10⁻⁶

Cross section (barns)

Energy (MeV)

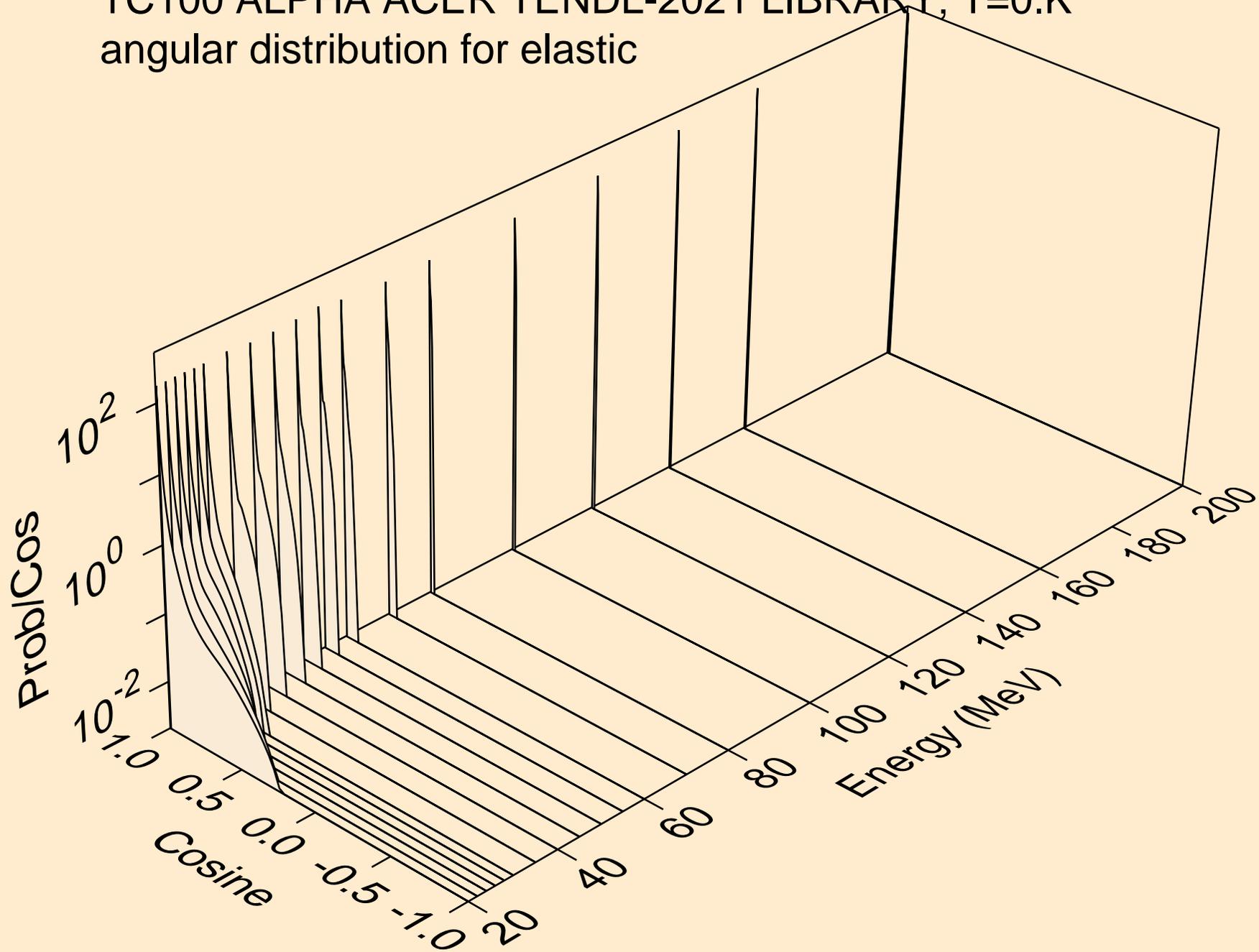- (a,2a)
- (a,pa)
- (a,da)
- (a,2p)
- (a,pd)

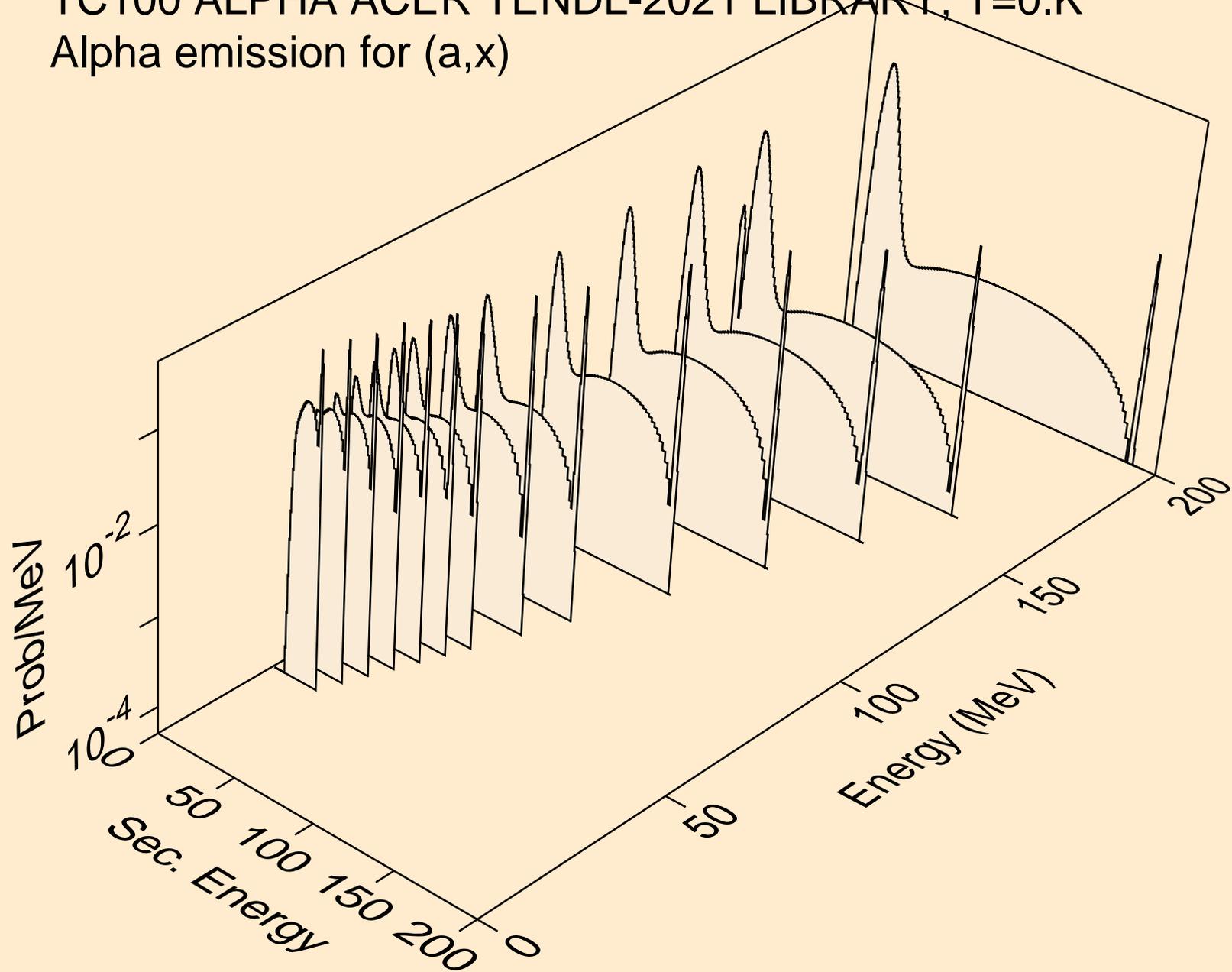TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Threshold reactions

(a,da)

TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
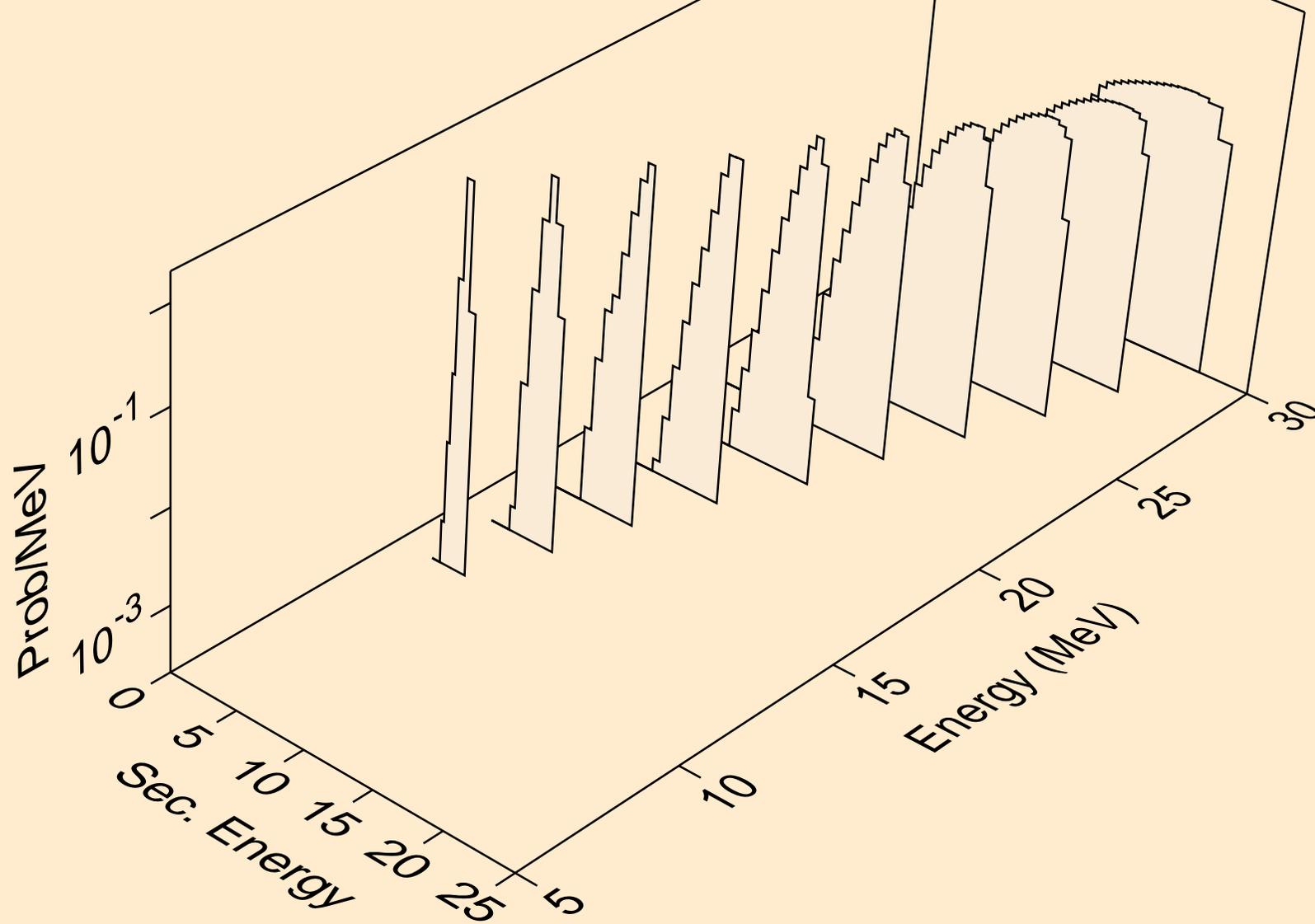angular distribution for elastic

TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
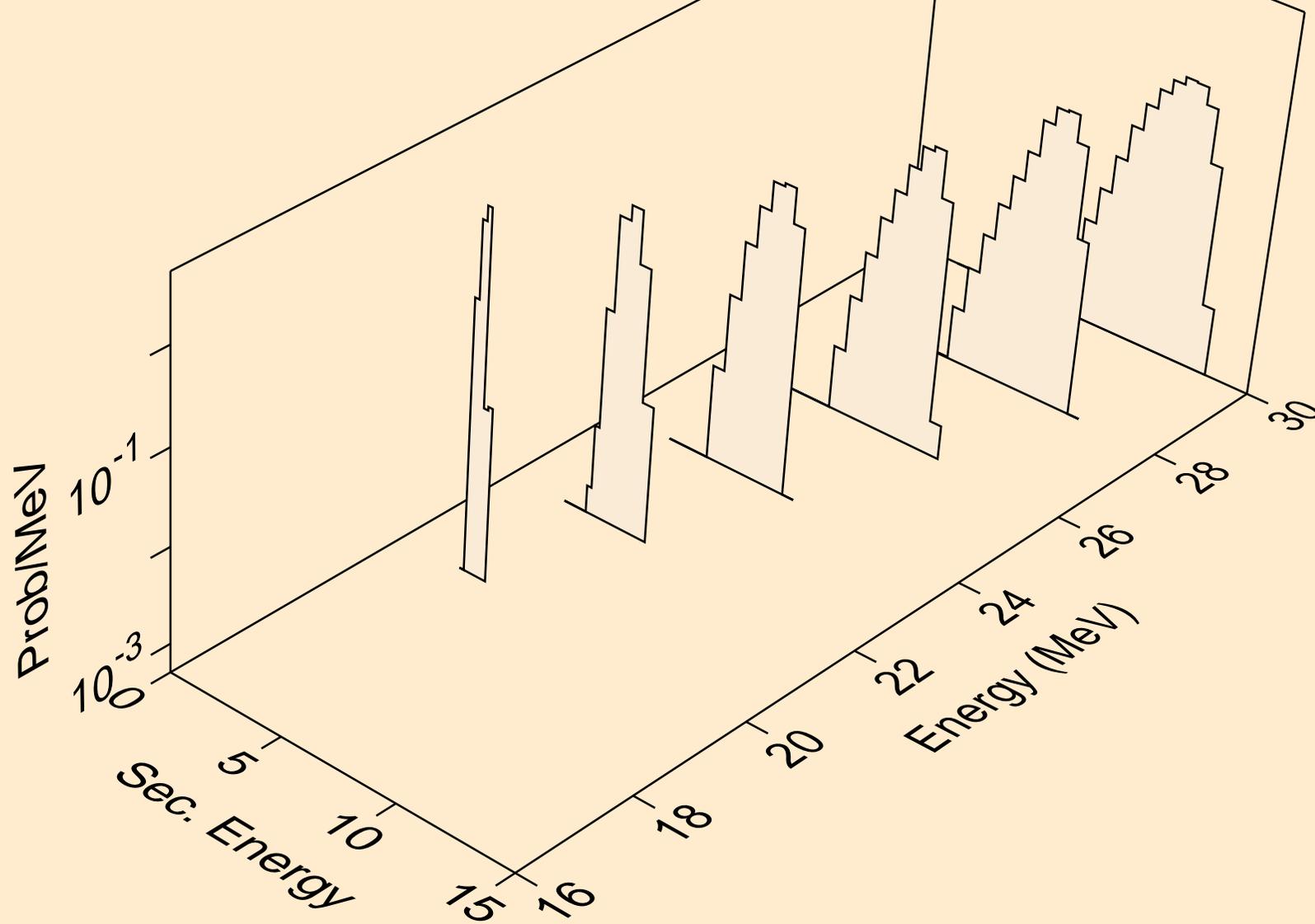angular distribution for elastic

TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
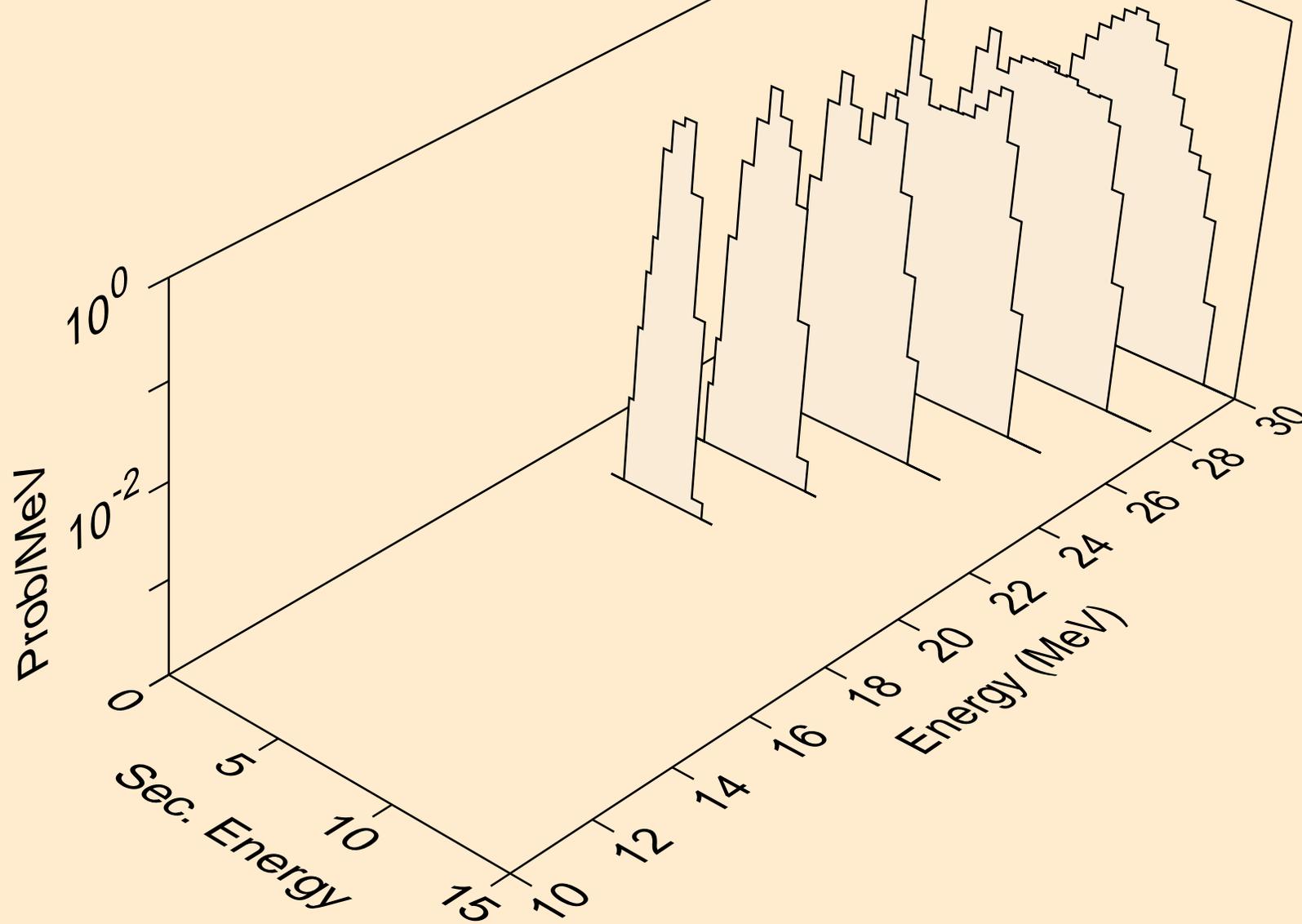Alpha emission for (a,x)

TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Alpha emission for (a,n*)a

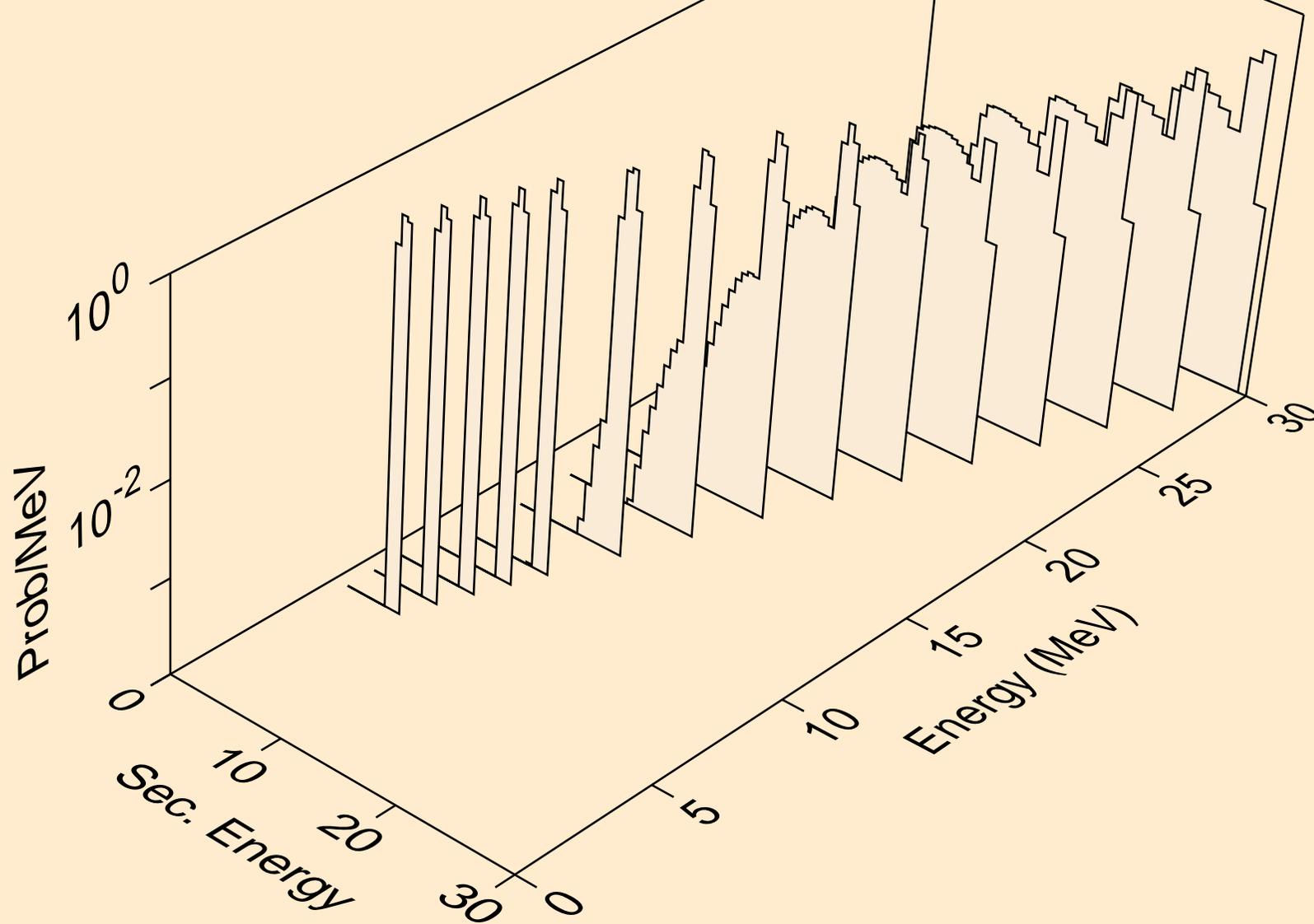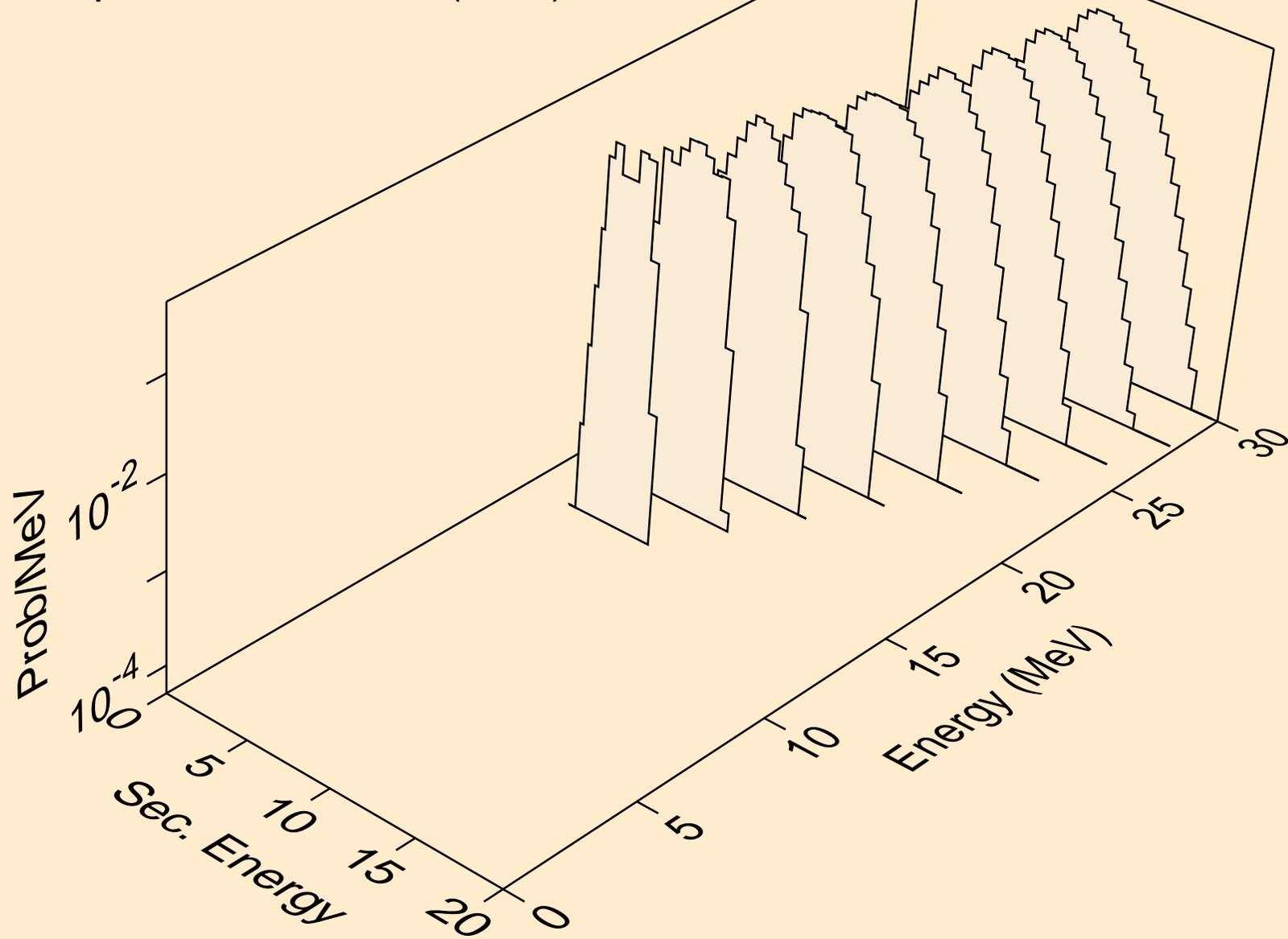TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Alpha emission for (a,2n)a

TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
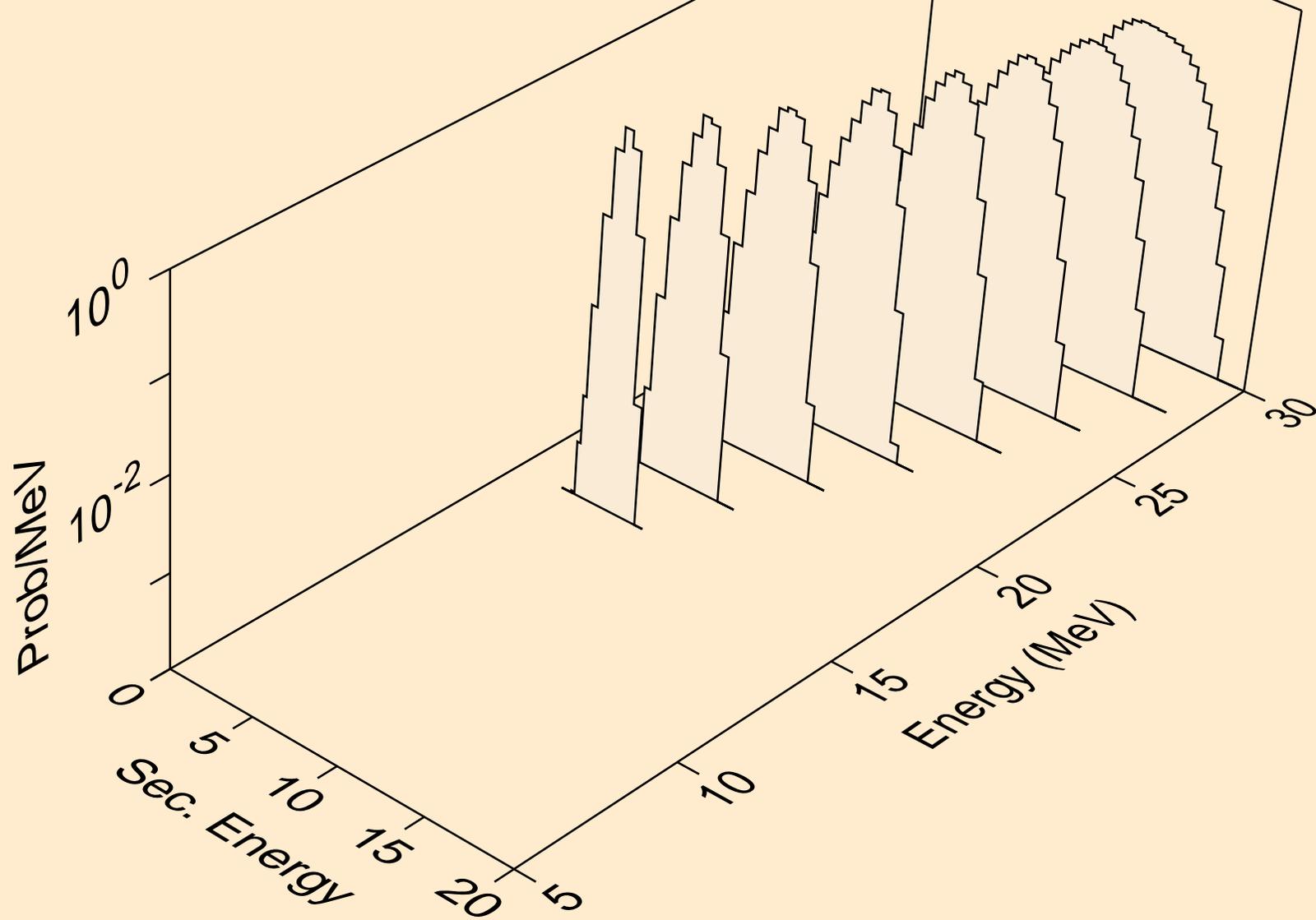Alpha emission for (a,n*)2a

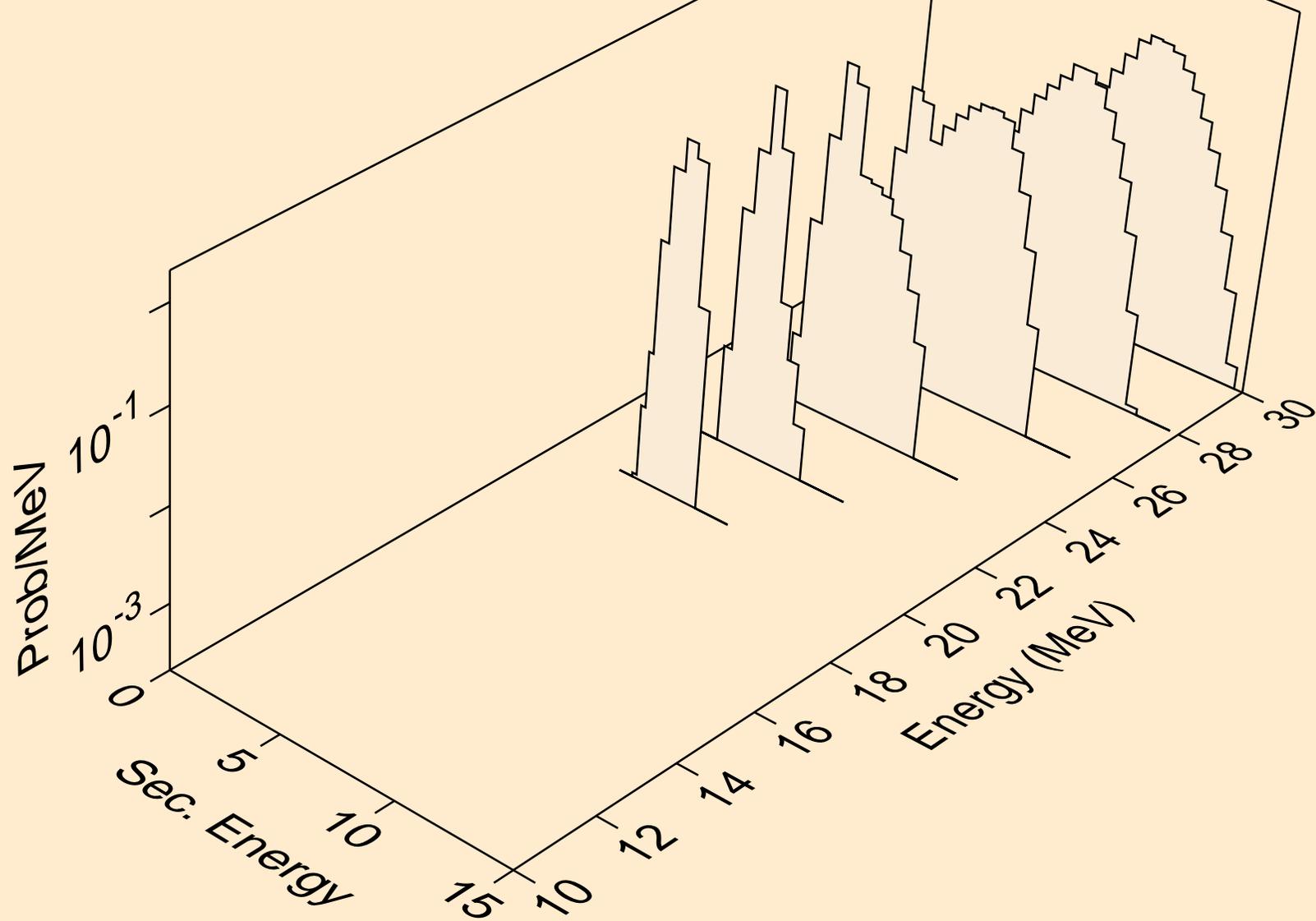TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Alpha emission for inelastic

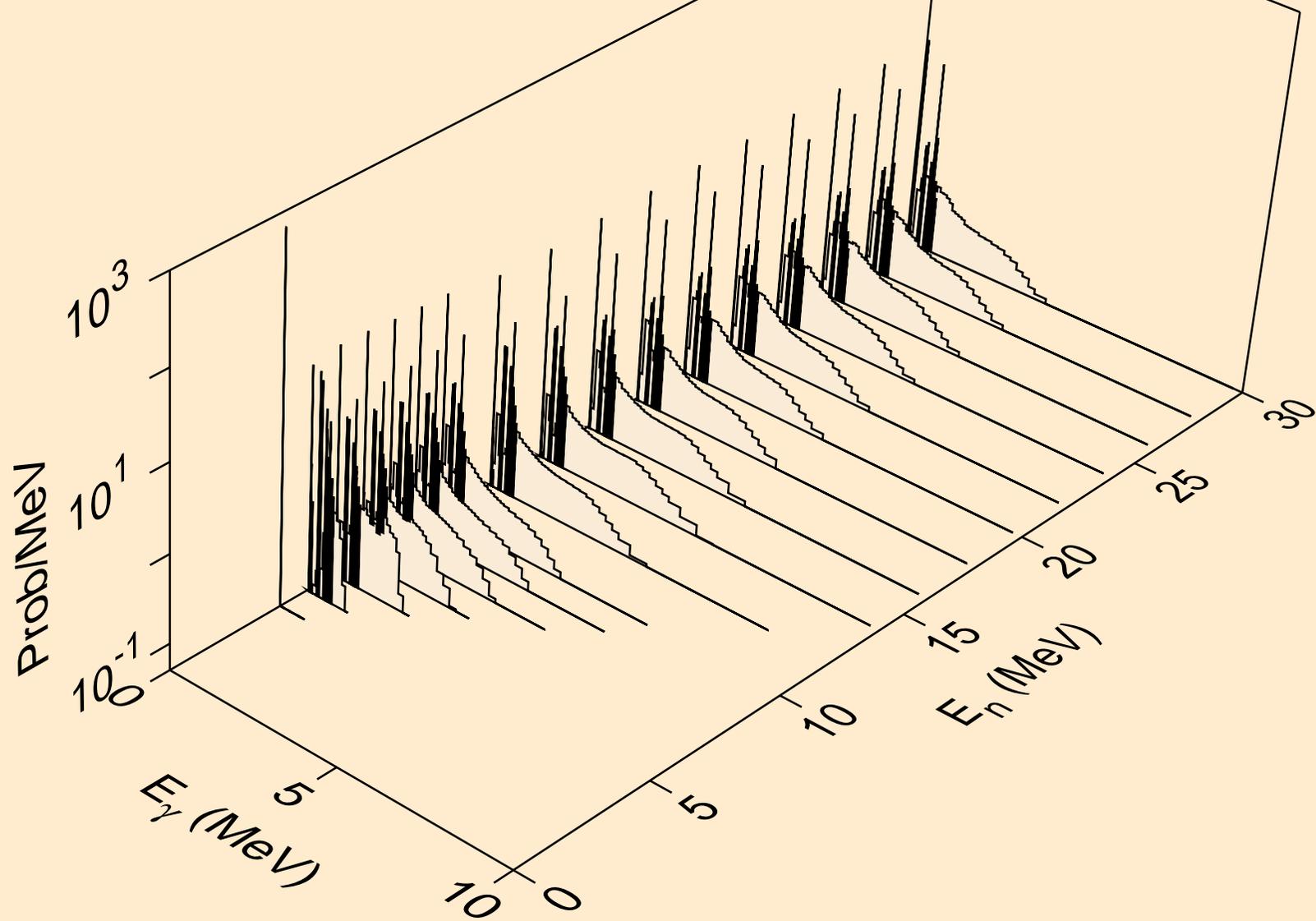TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Alpha emission for (a,2a)

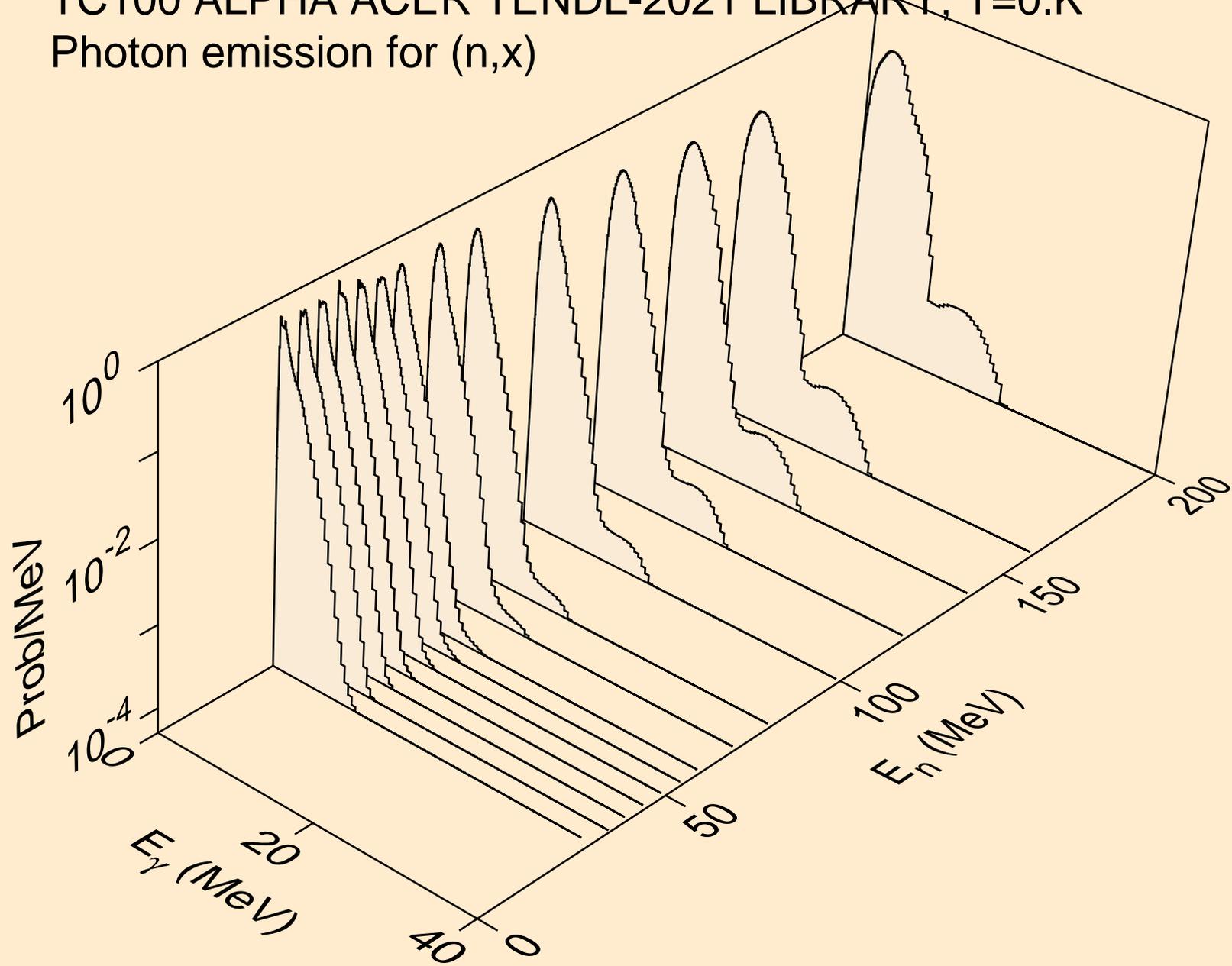TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Alpha emission for (a,pa)

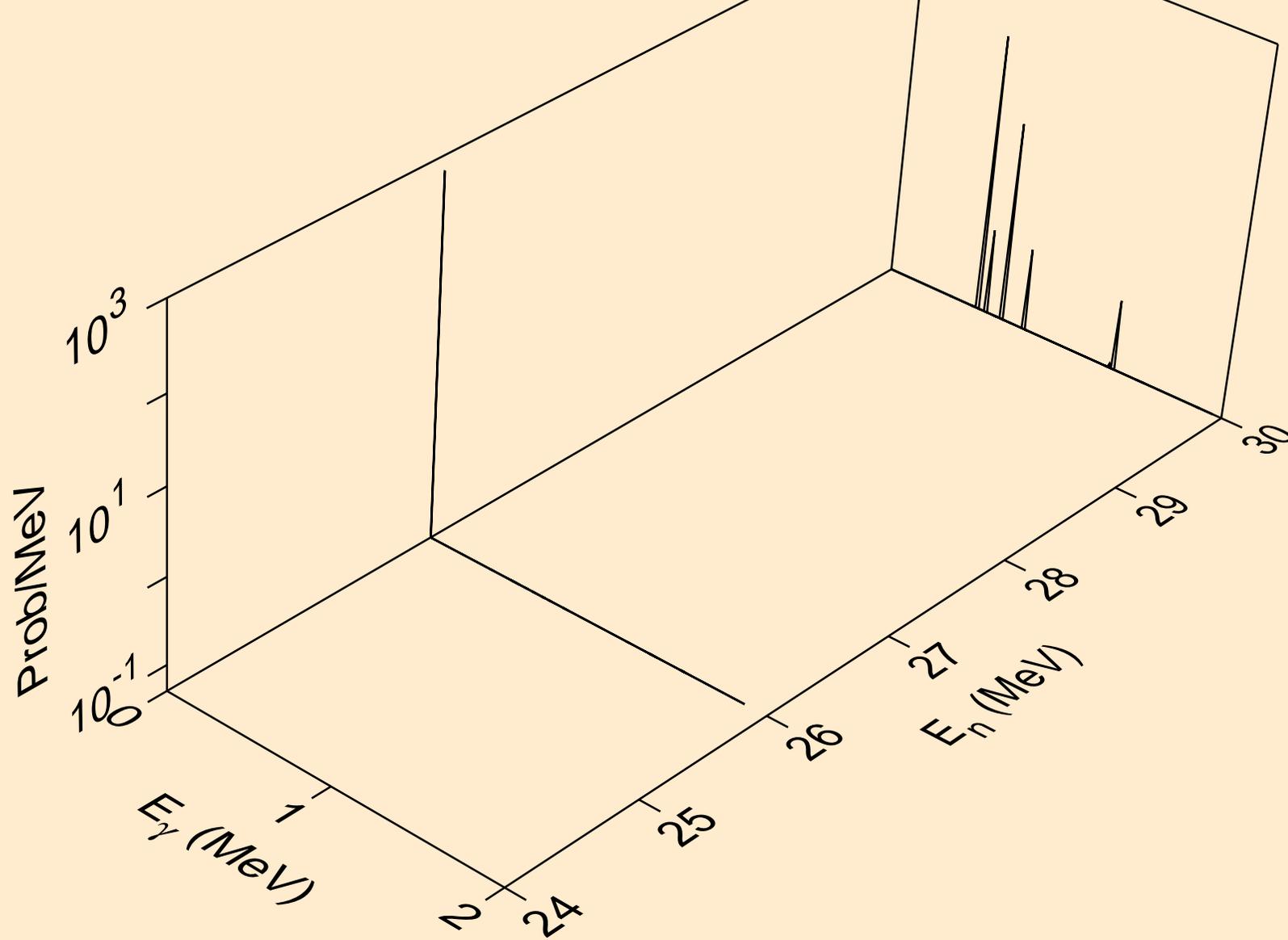TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Alpha emission for (a,da)

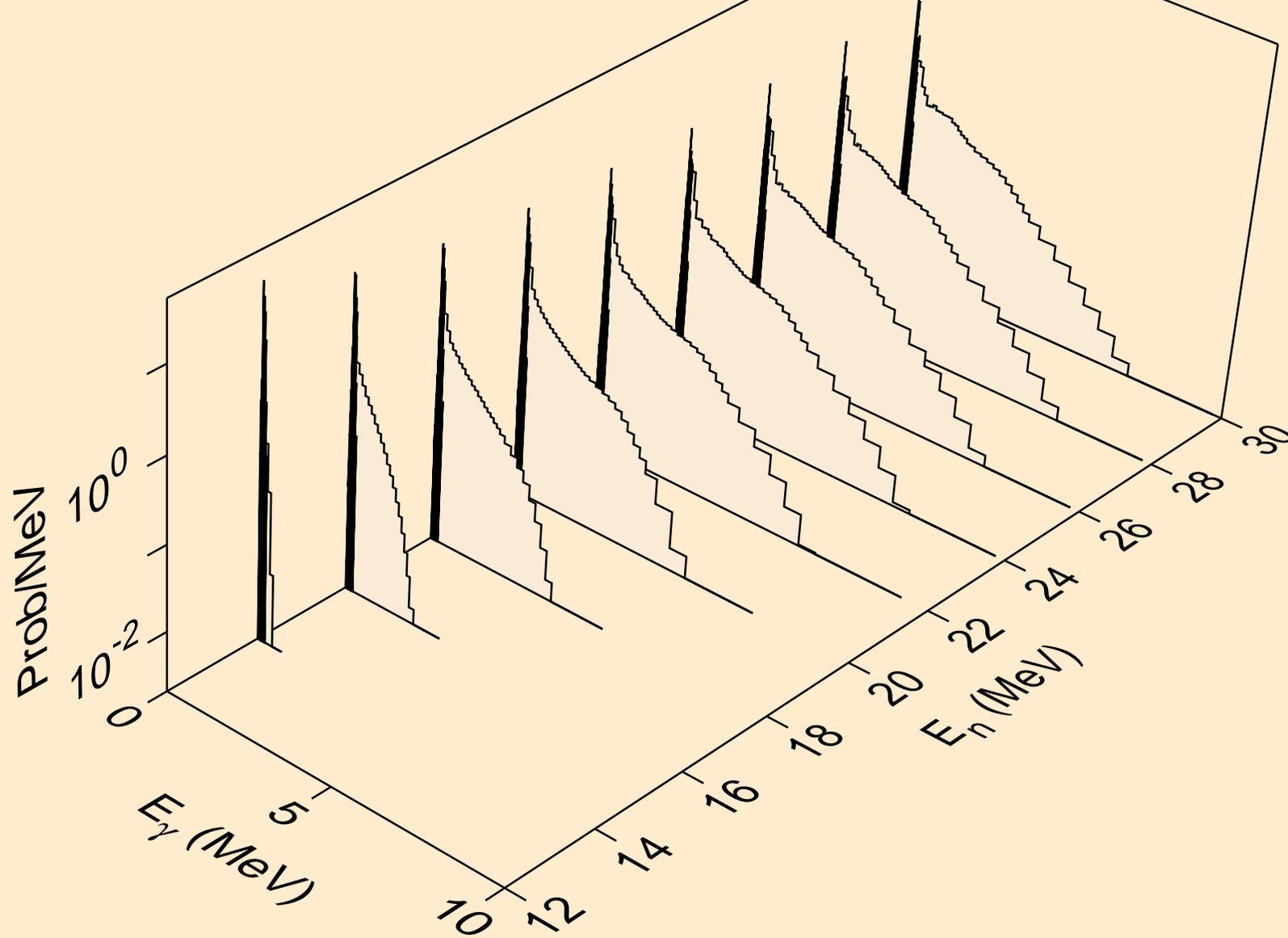TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (z,n)

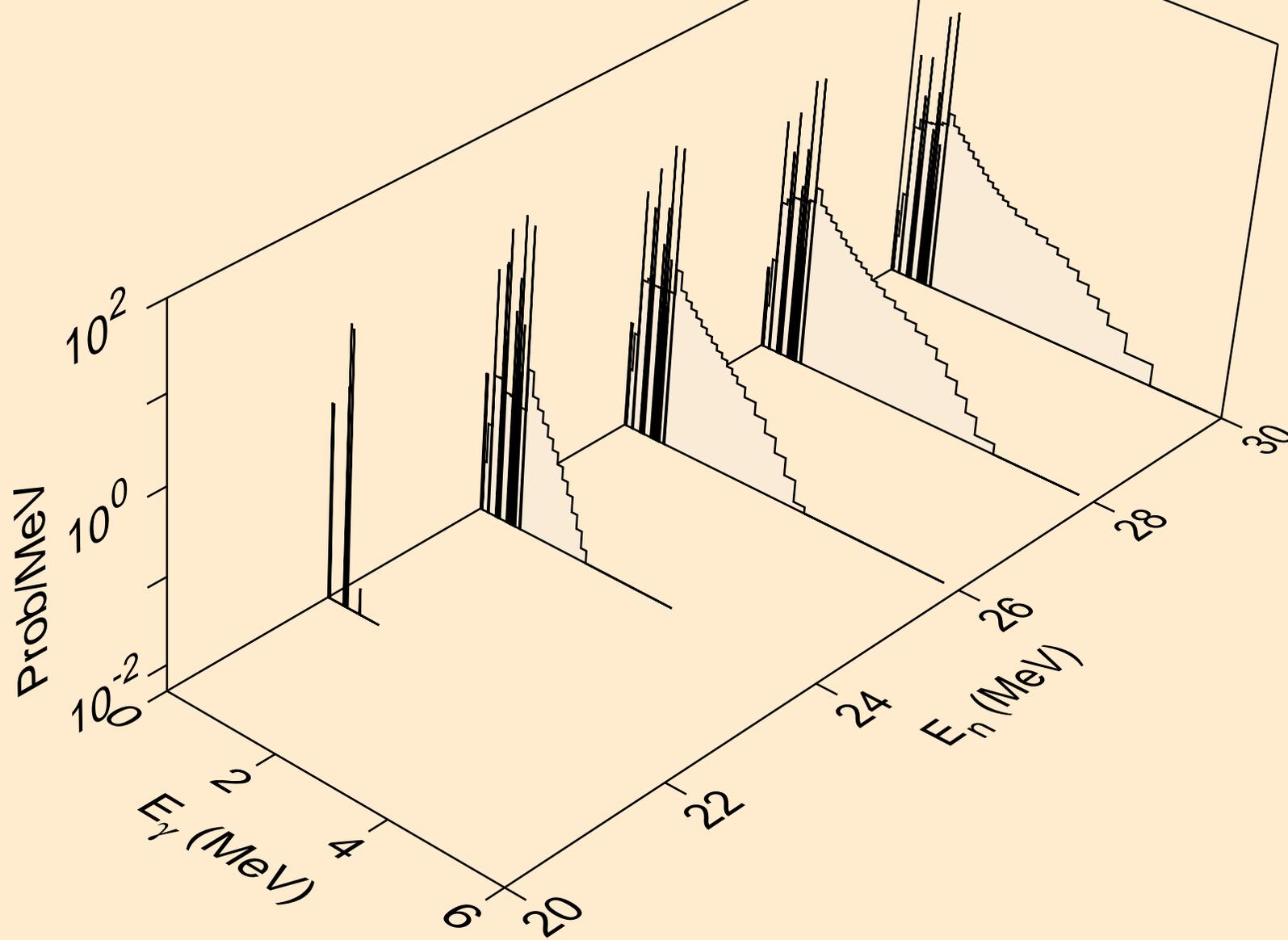TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,x)

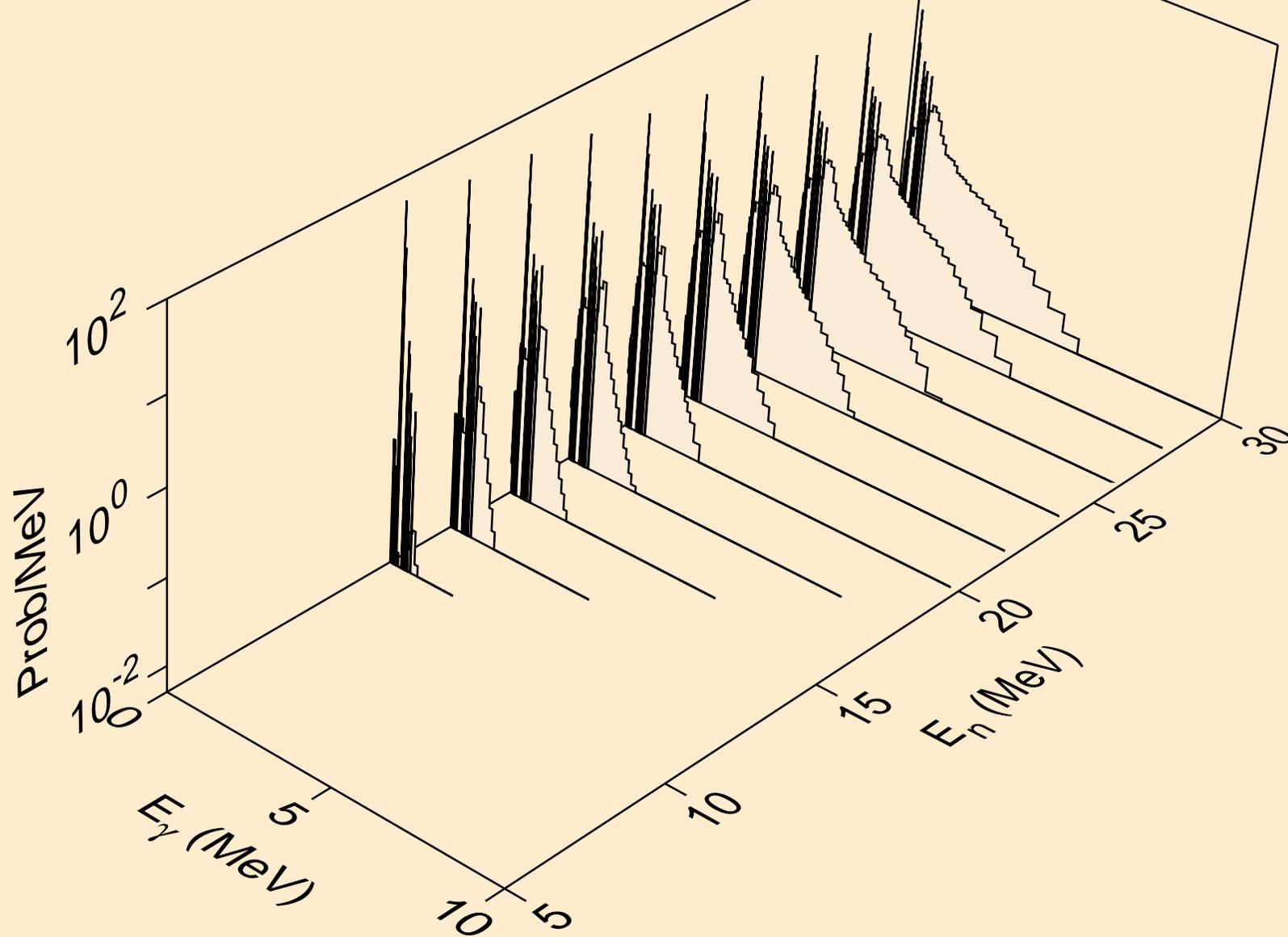TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,2nd)

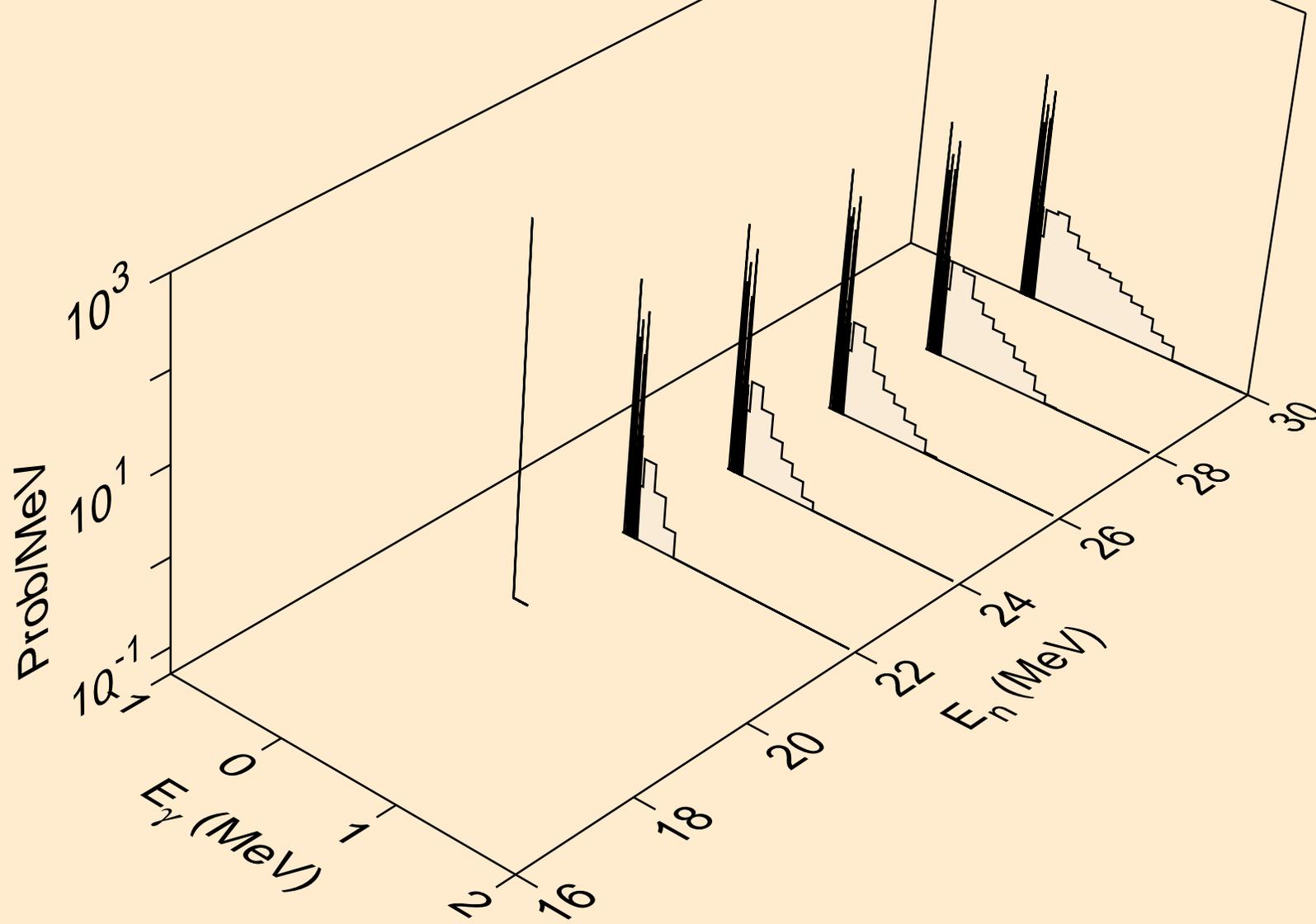TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,2n)

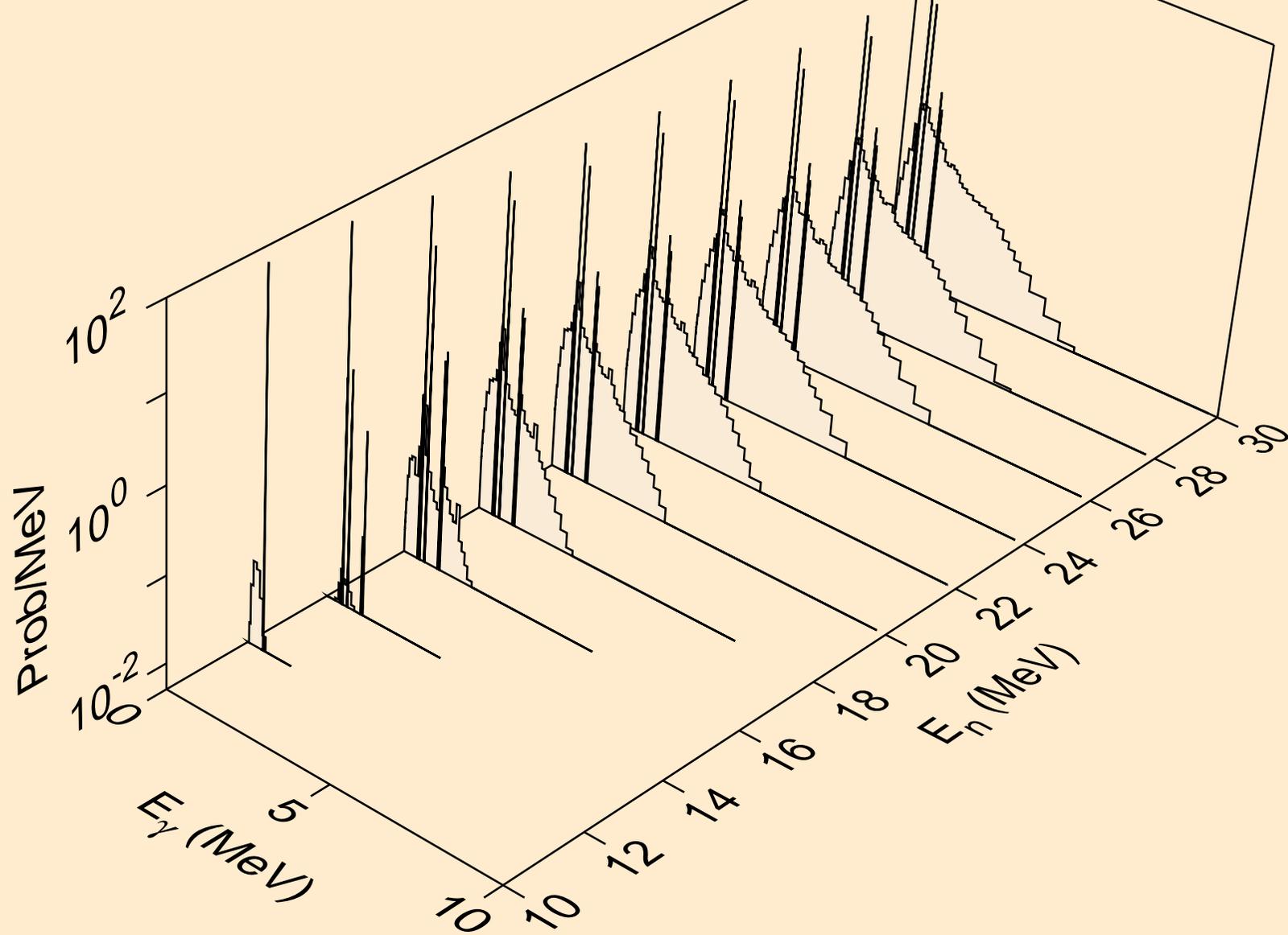TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,3n)

TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,n*)a

TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,2n)a

ProbIMeV

10^3

10^1

10^{-1}

E_γ (MeV)

E_n (MeV)

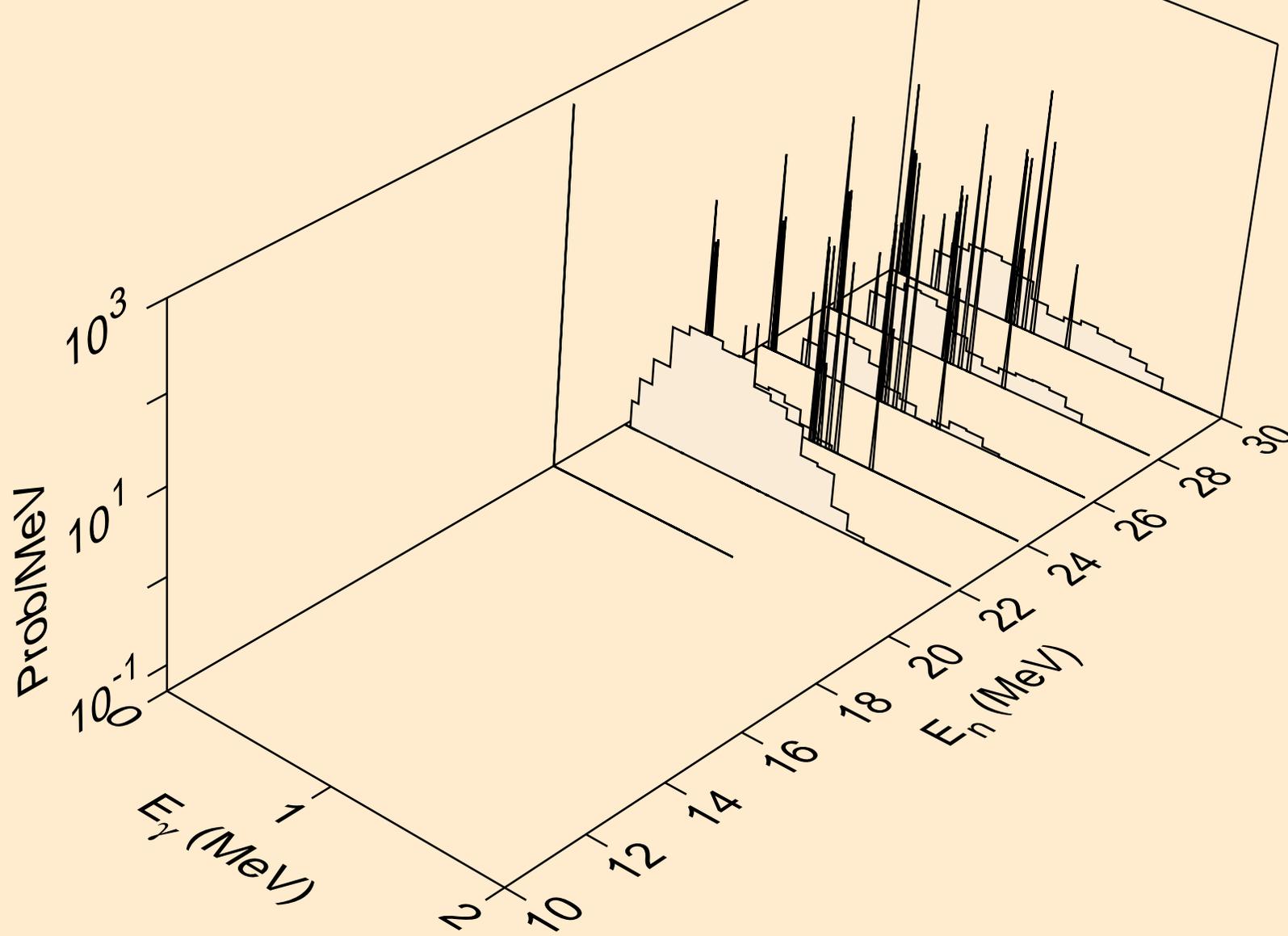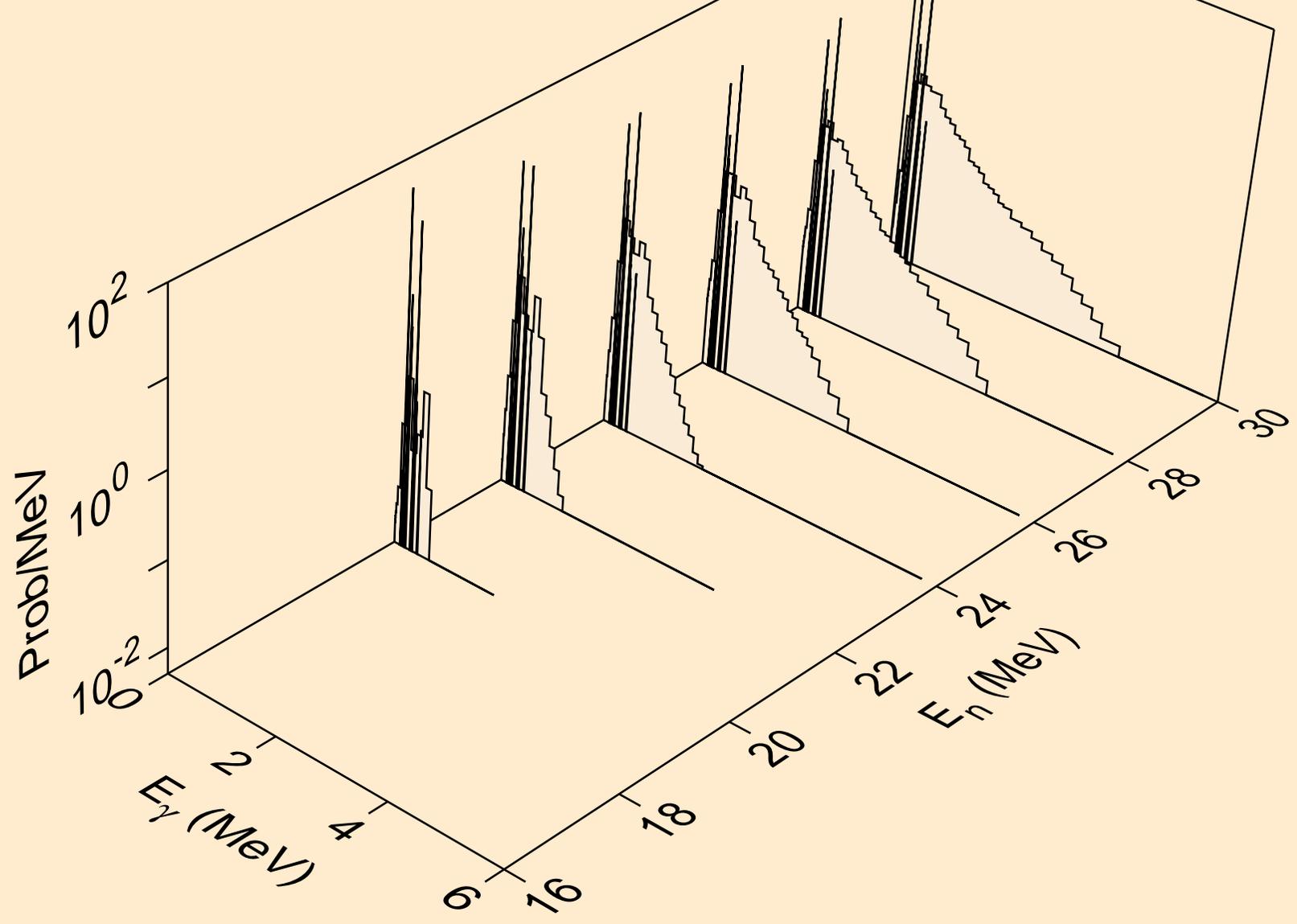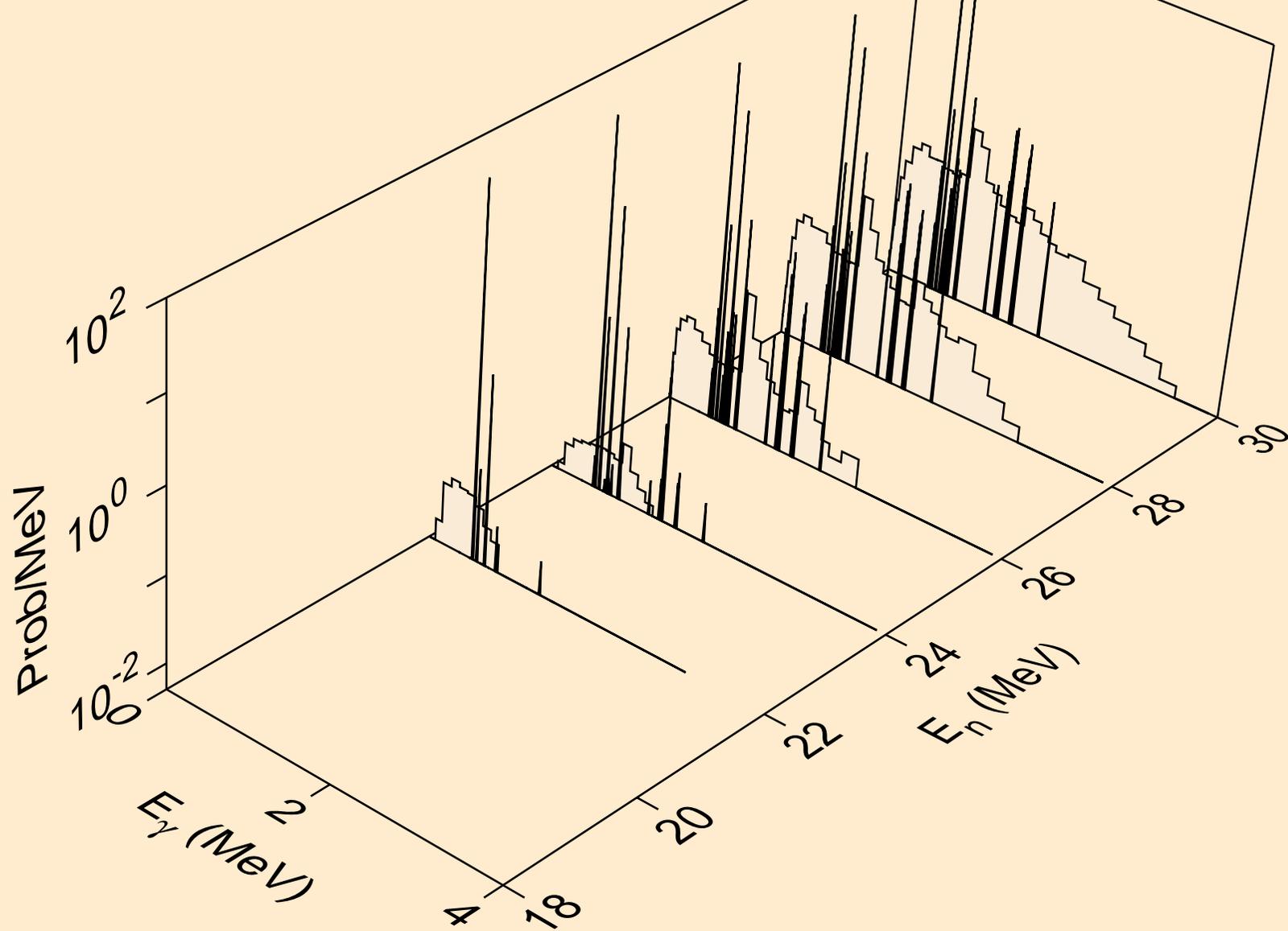TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,n*)p

TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,n*)2a

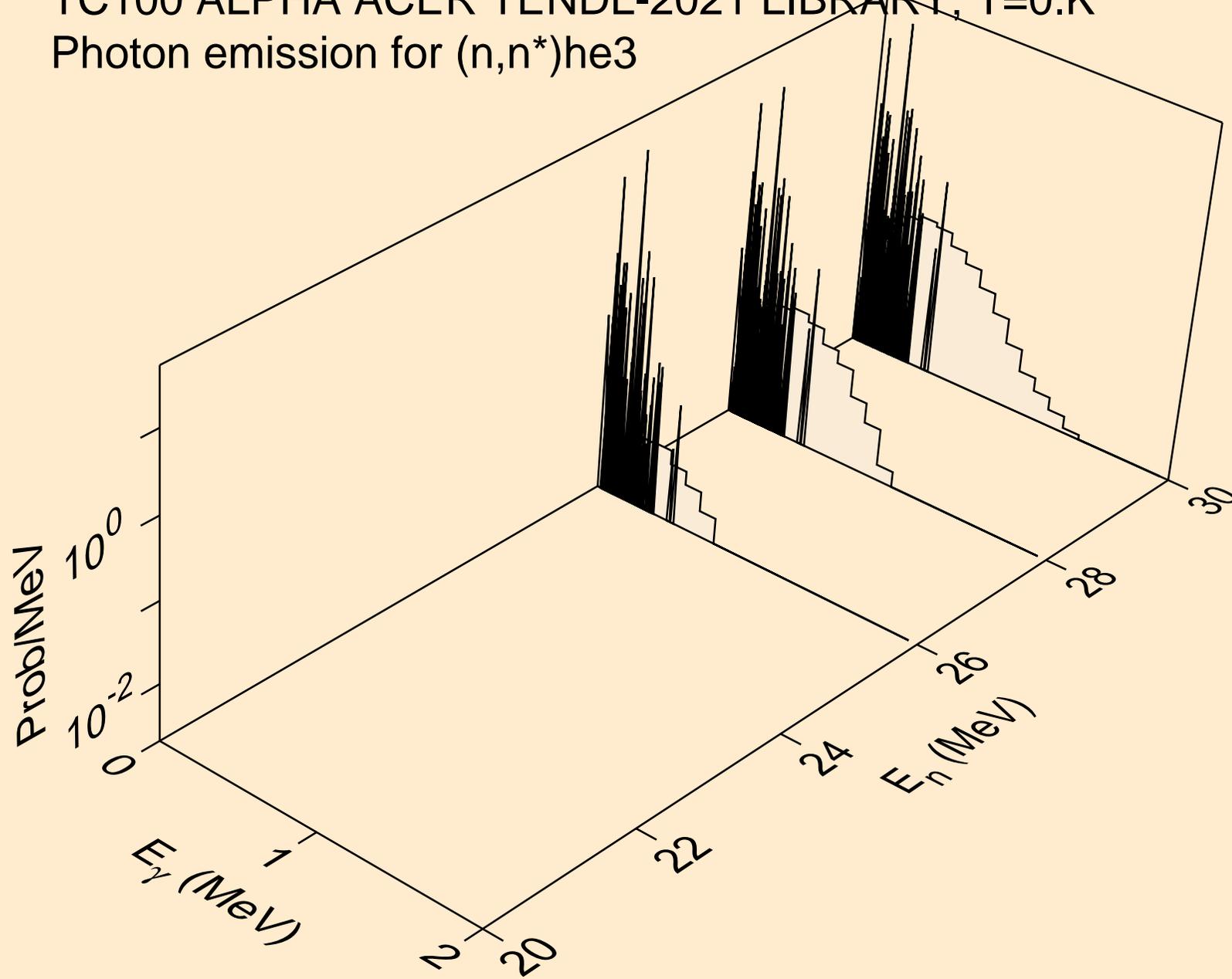TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,n*)d

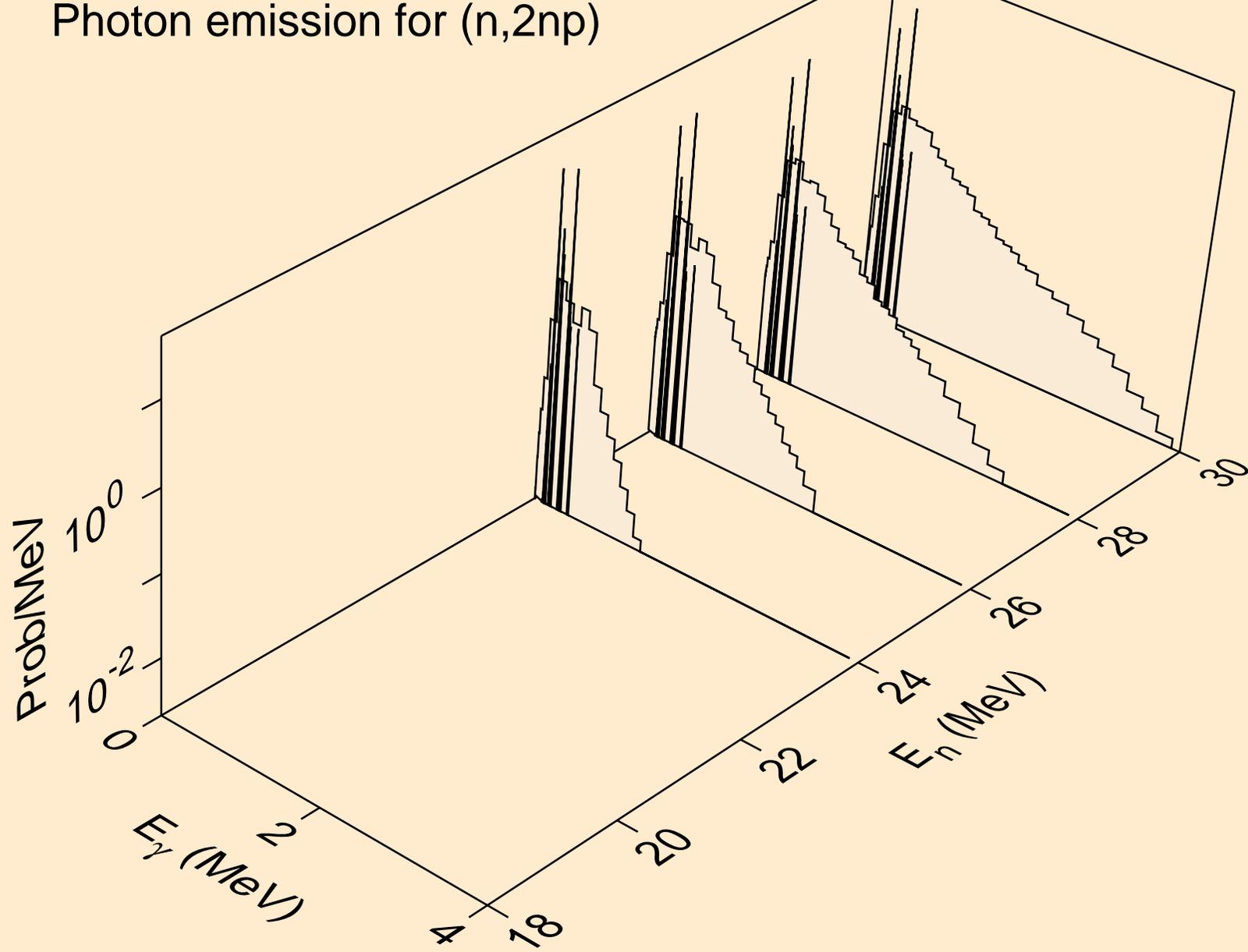TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,n*)t
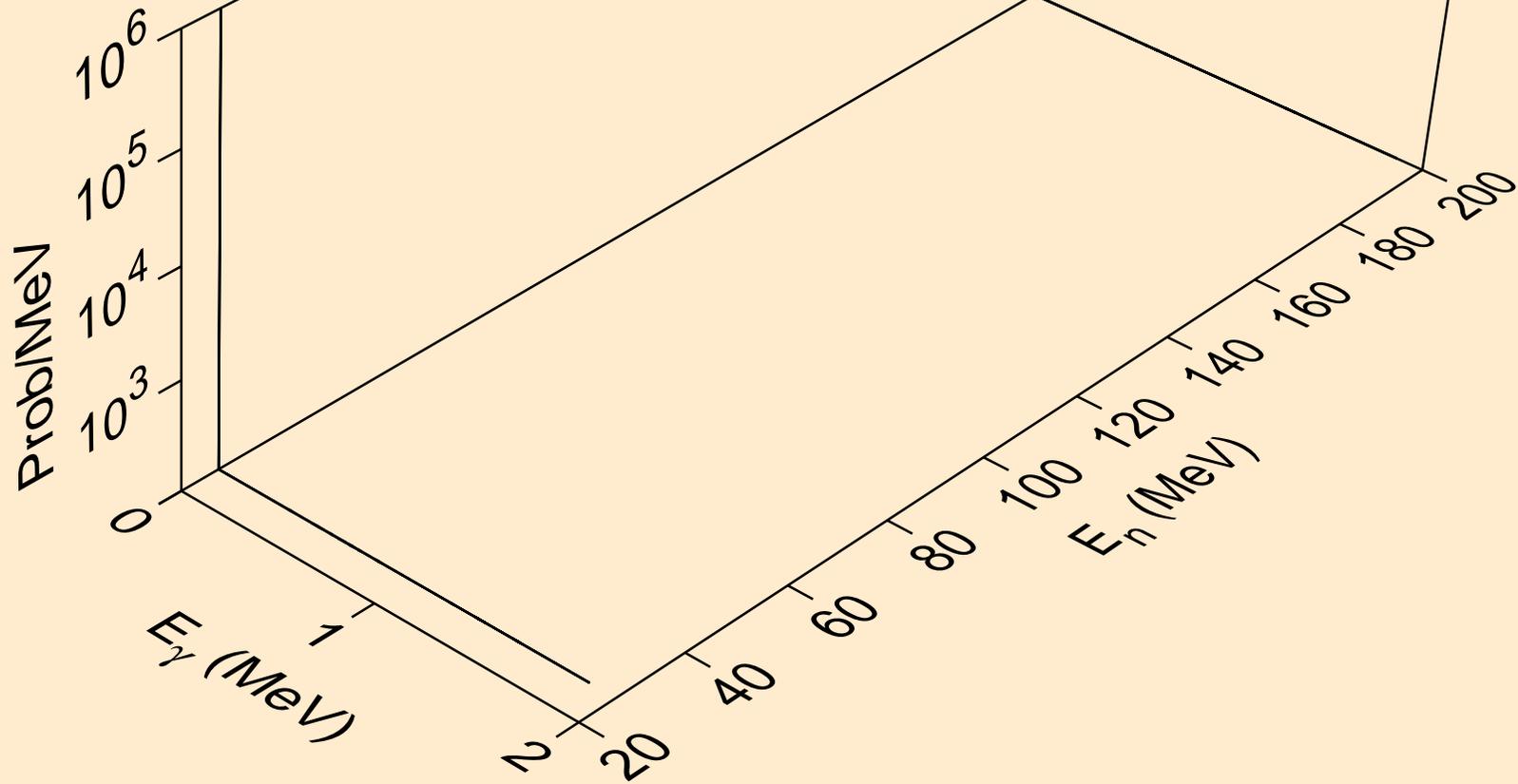
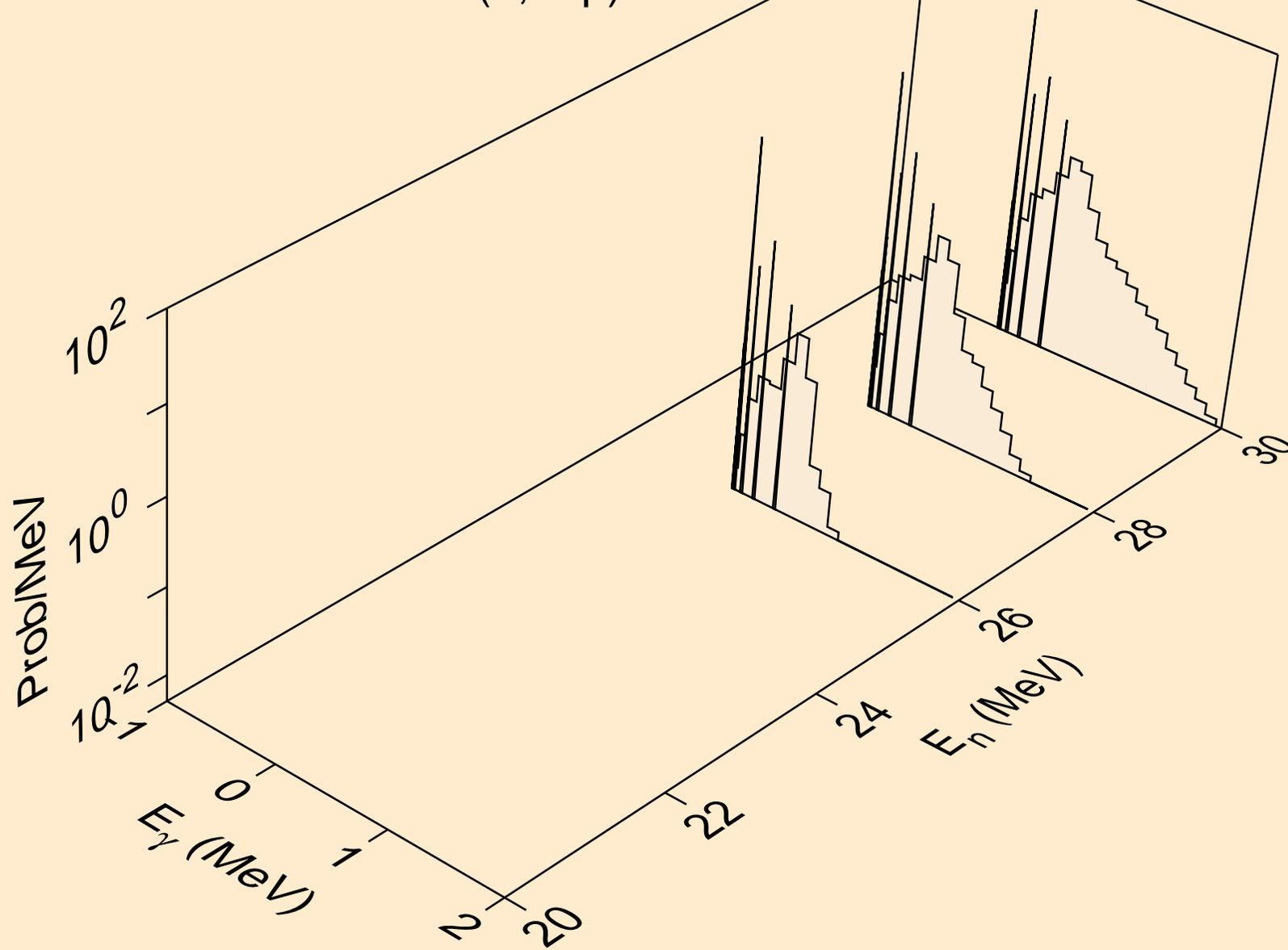TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,n*)he3

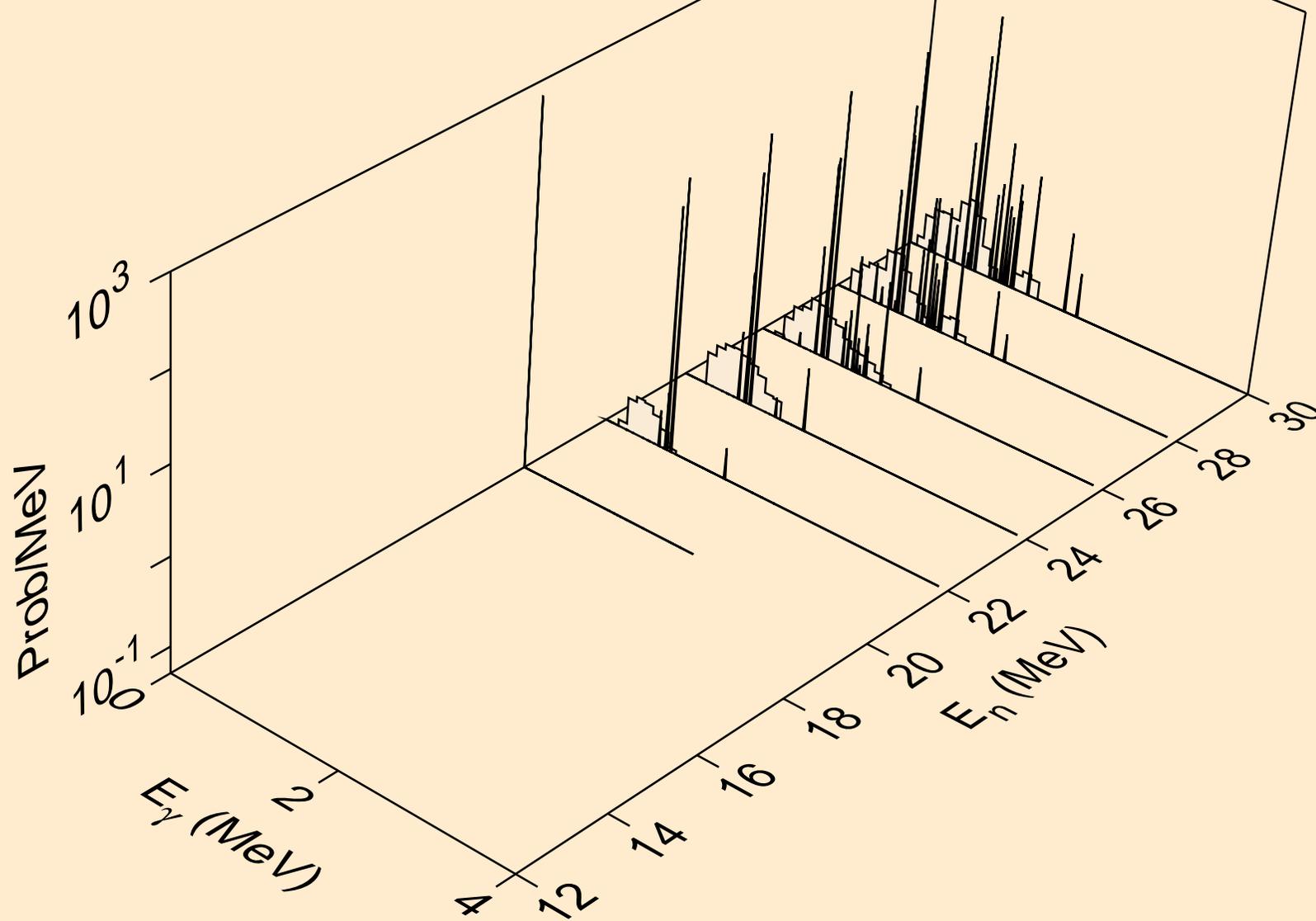TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,2np)

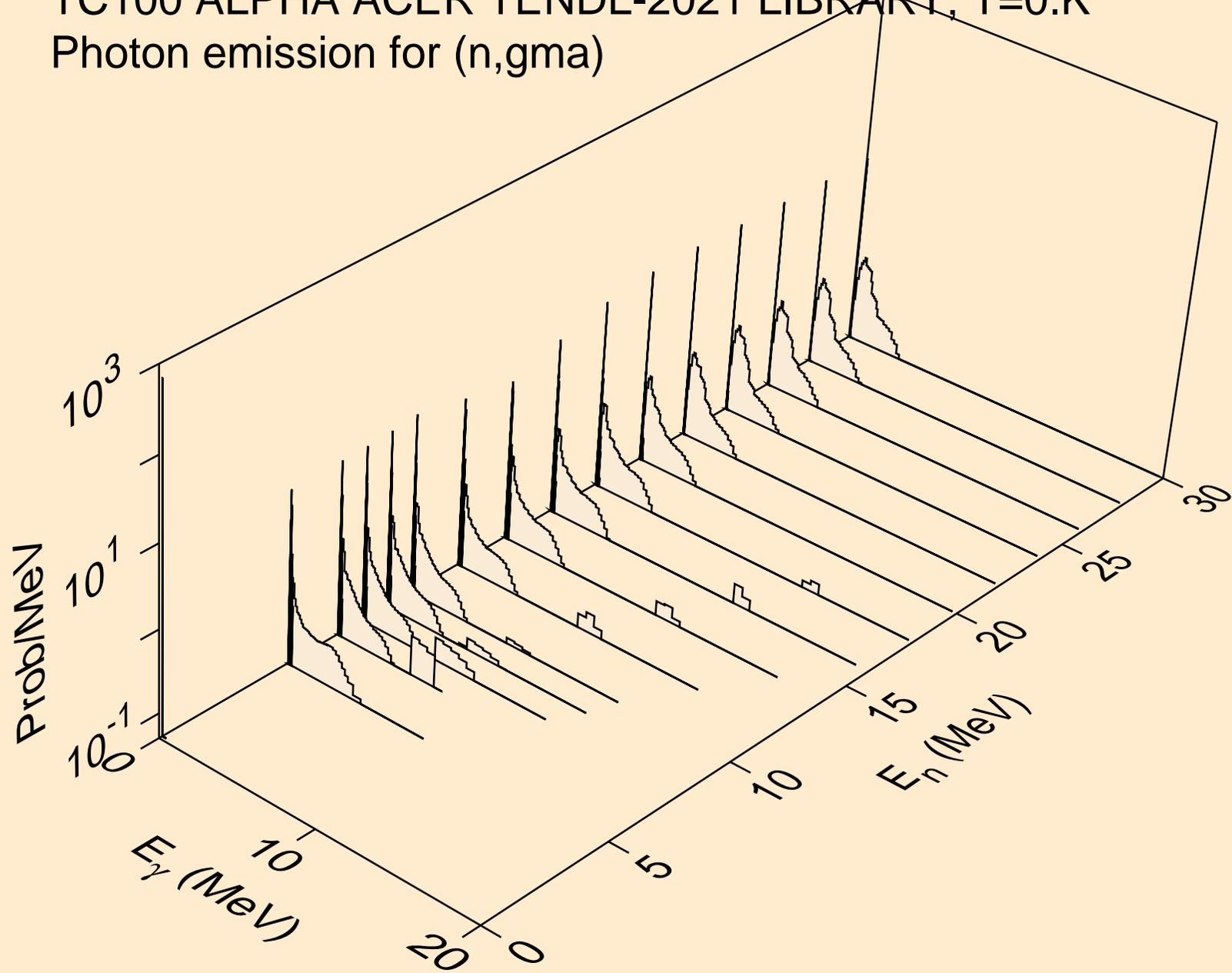TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,3np)

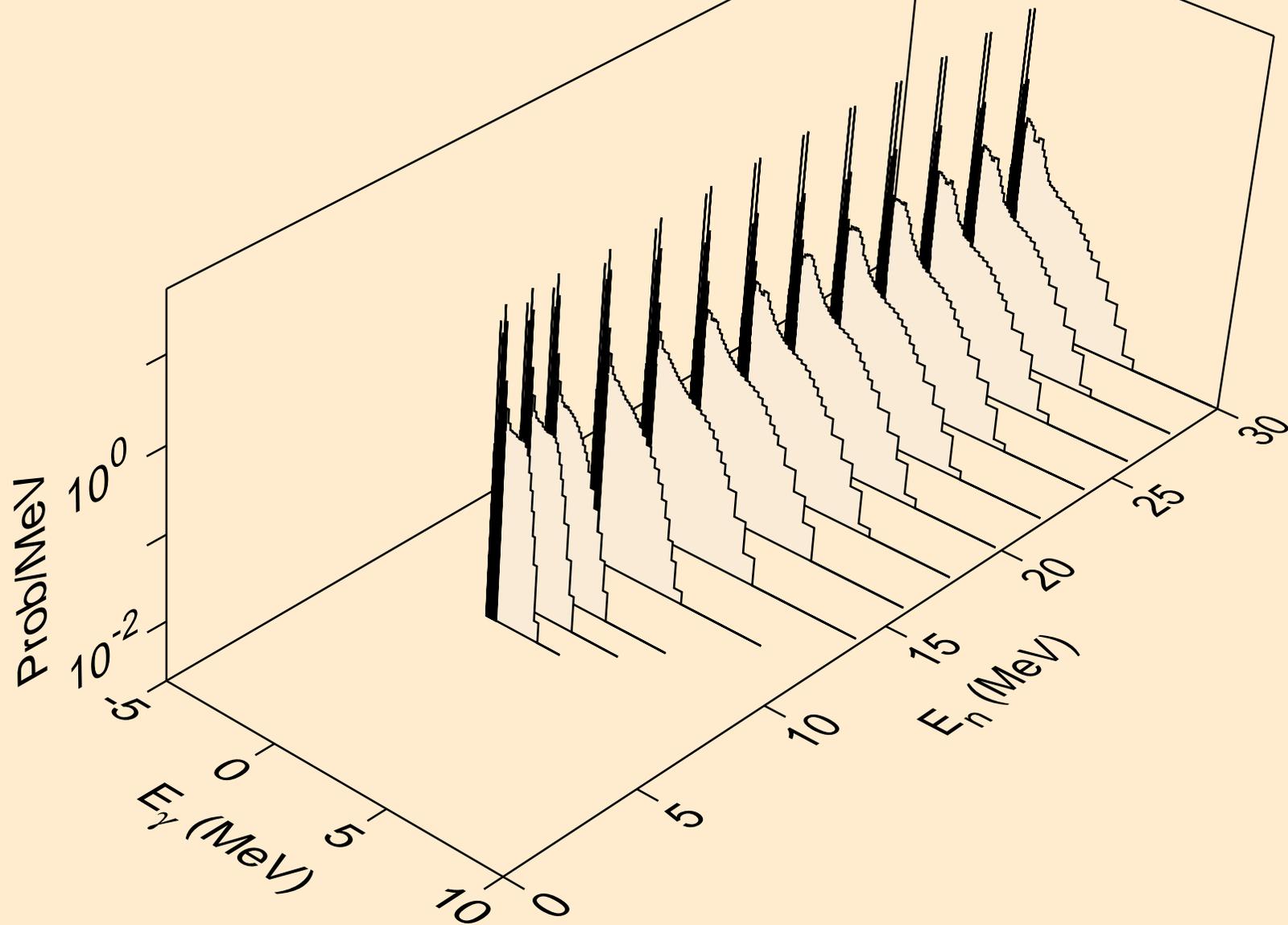TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,2np)

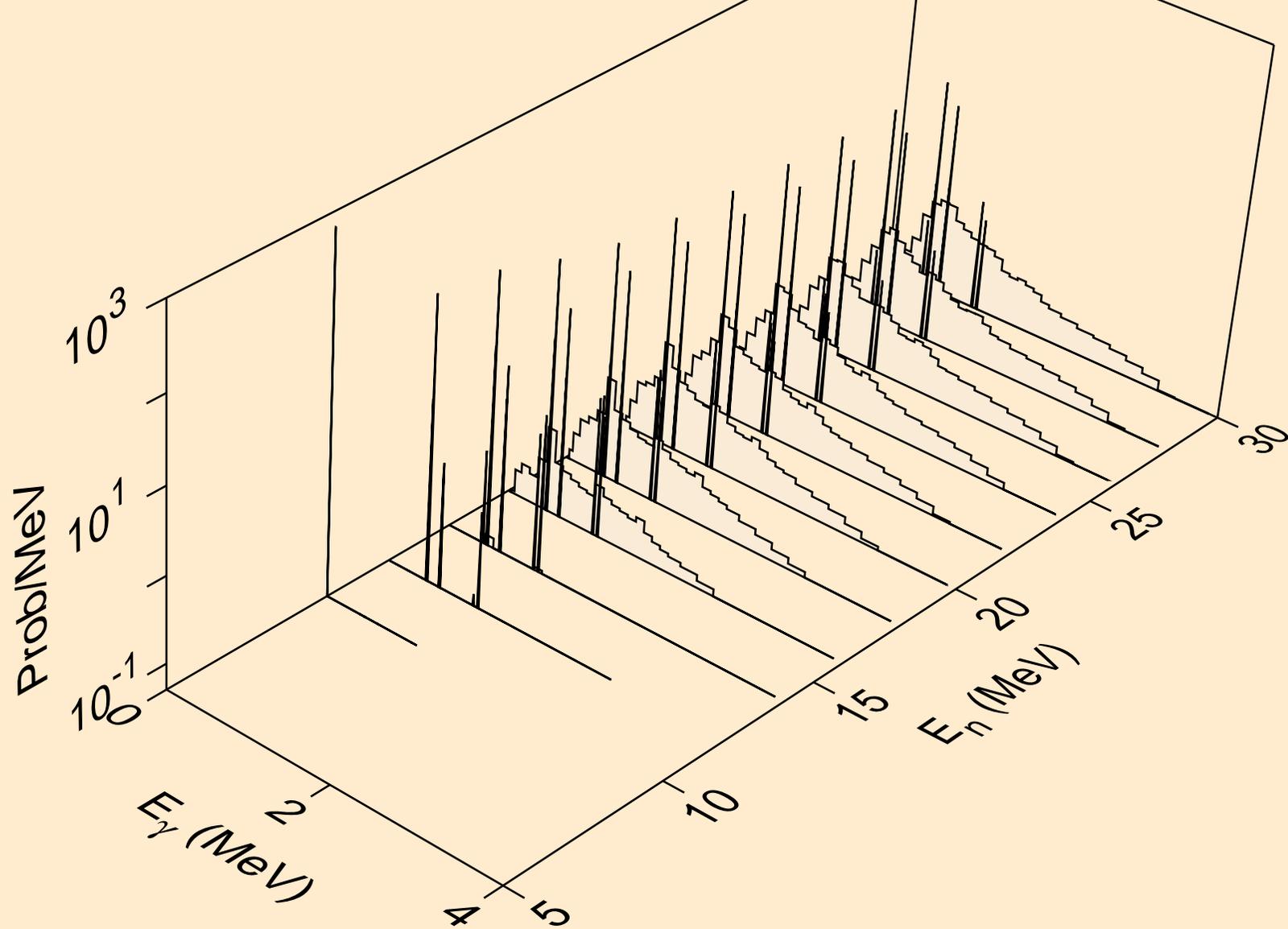TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,npa)

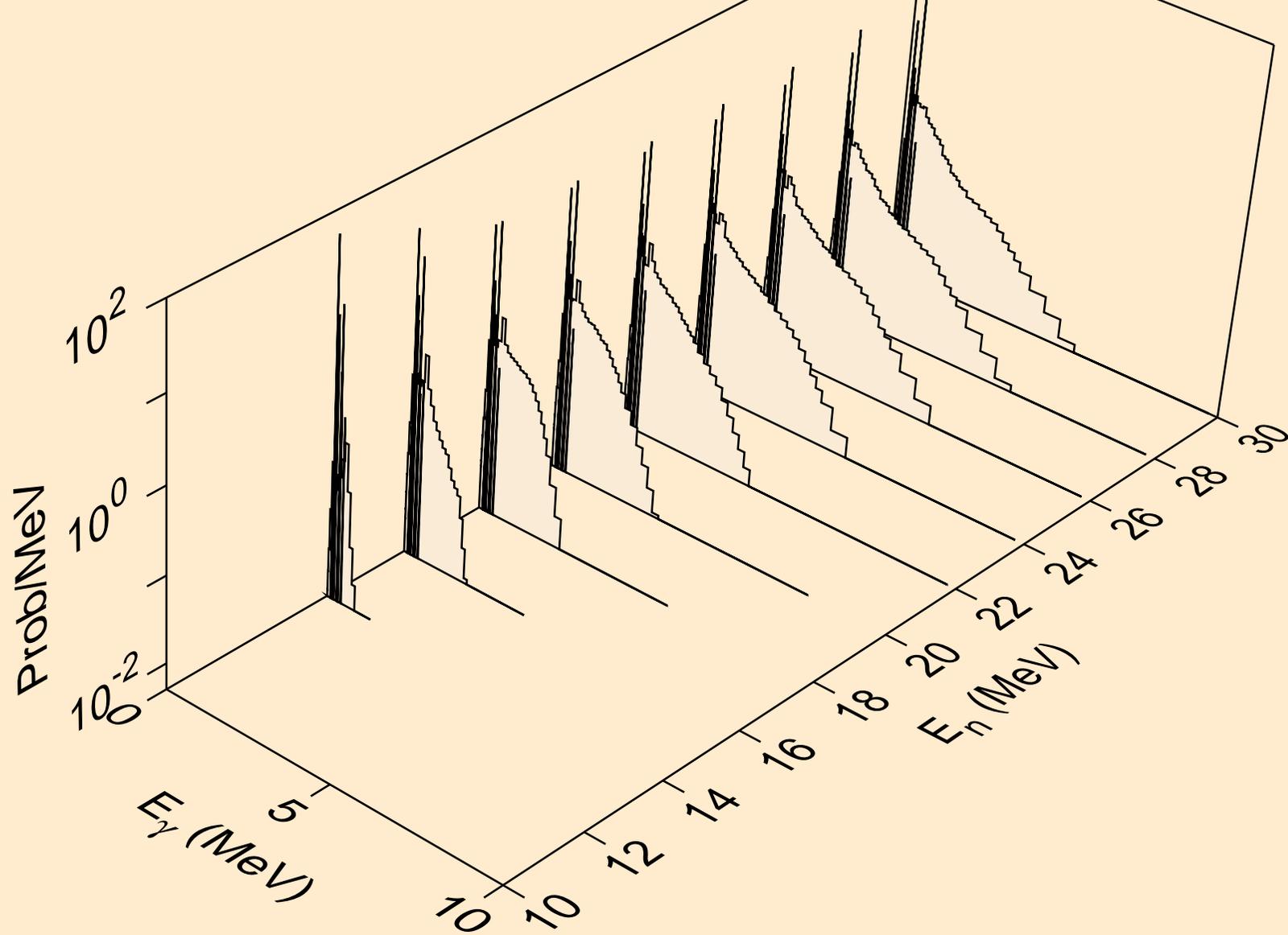TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,gma)

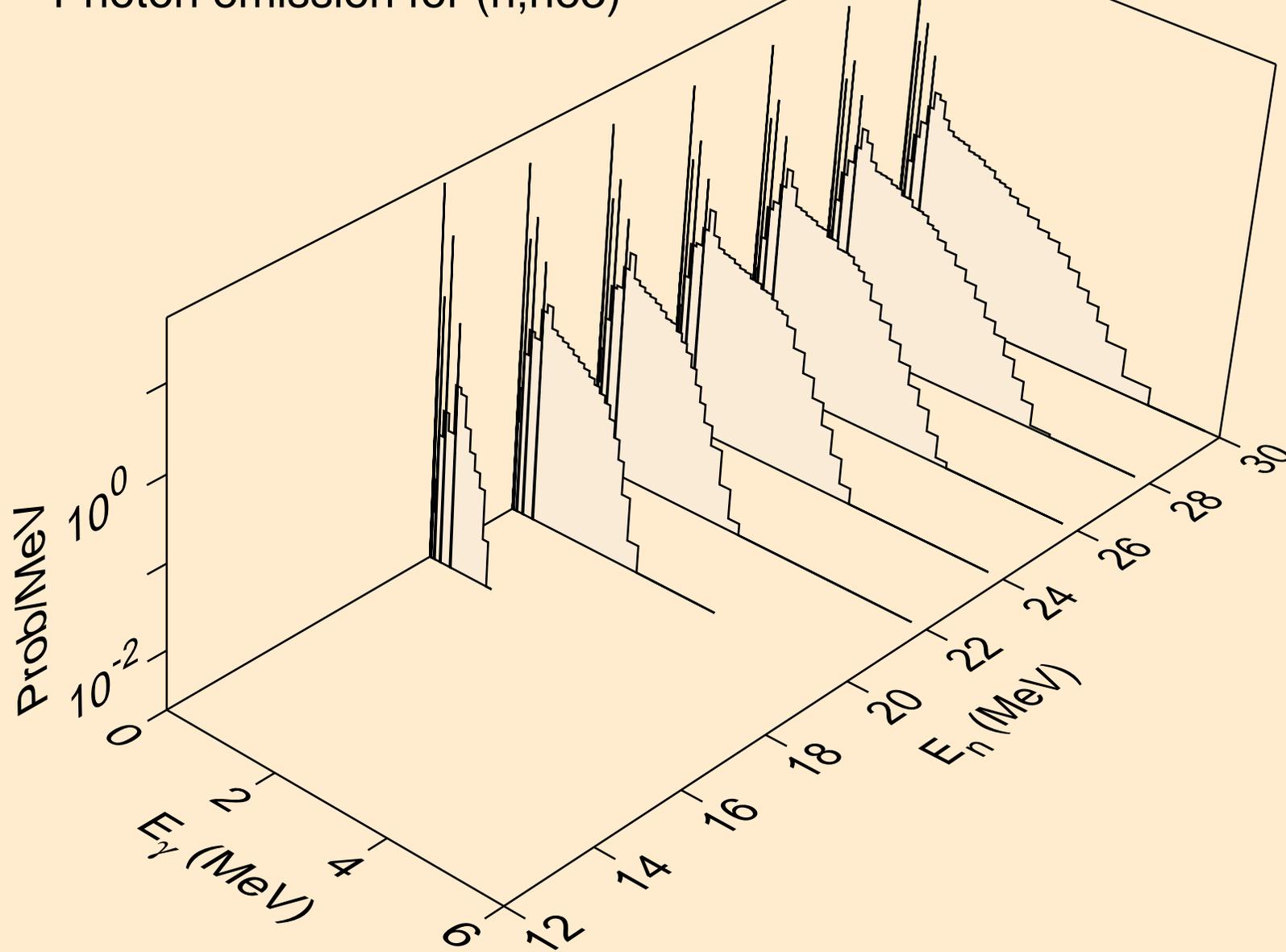TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,p)

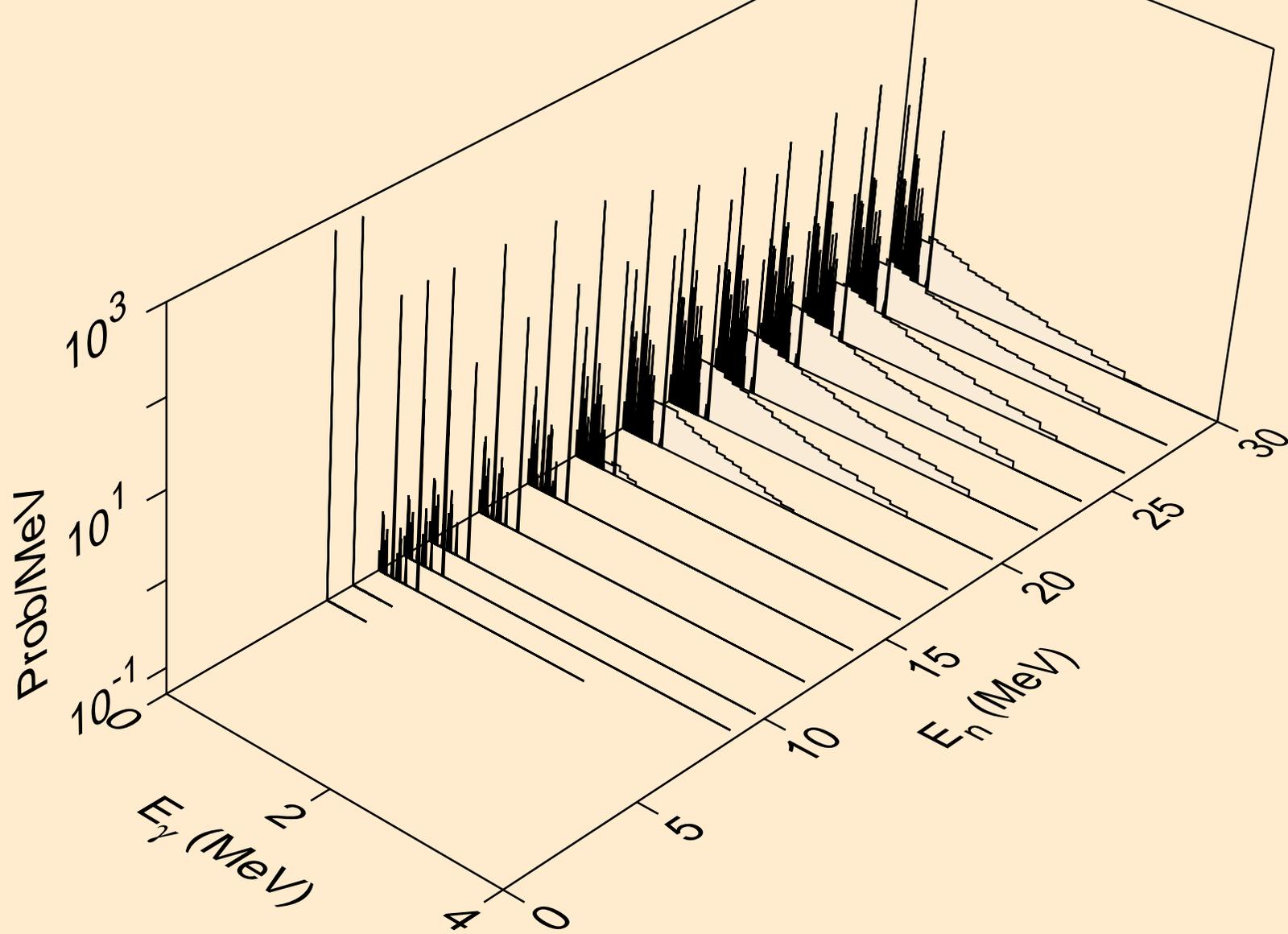TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,d)

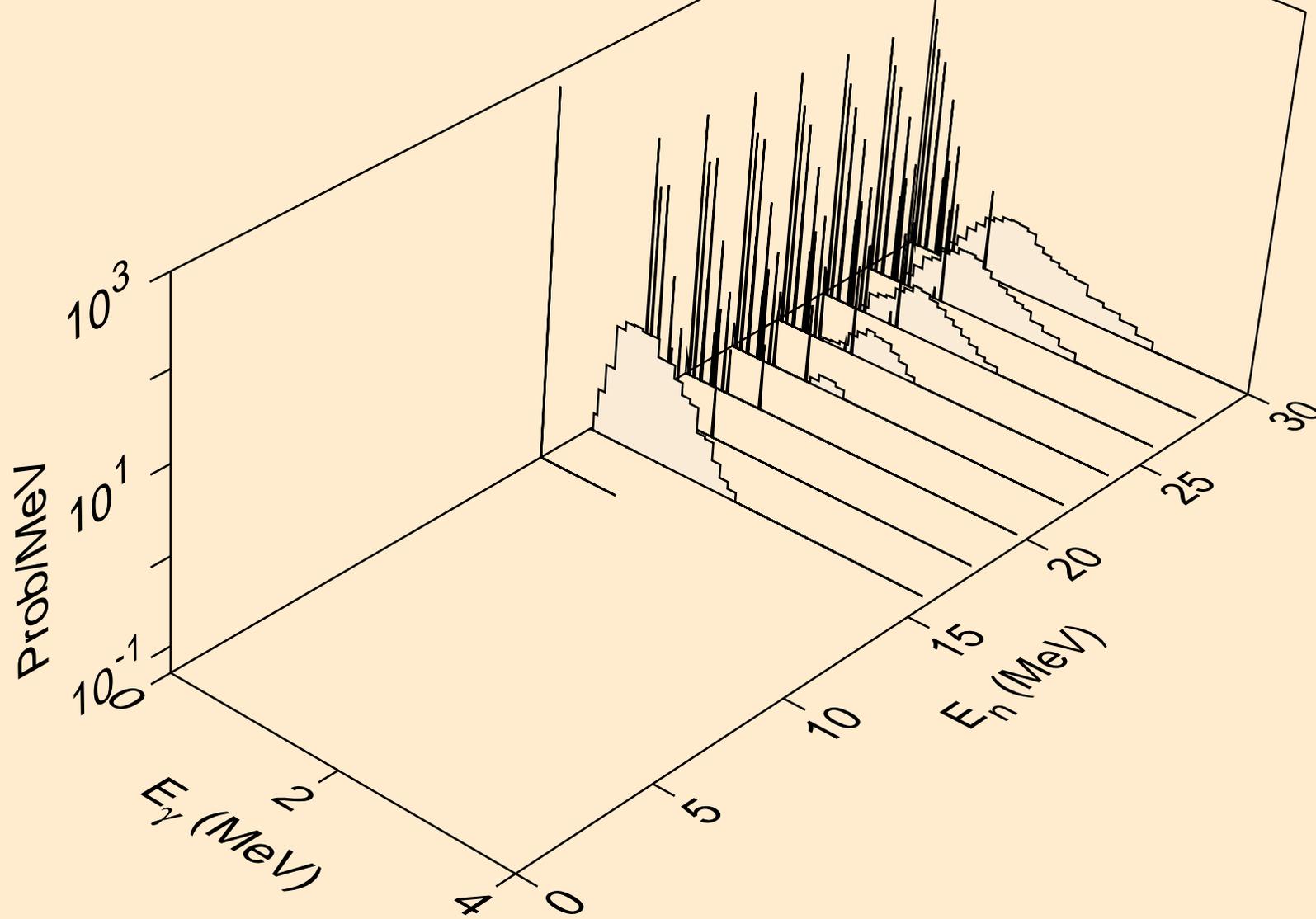TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,t)

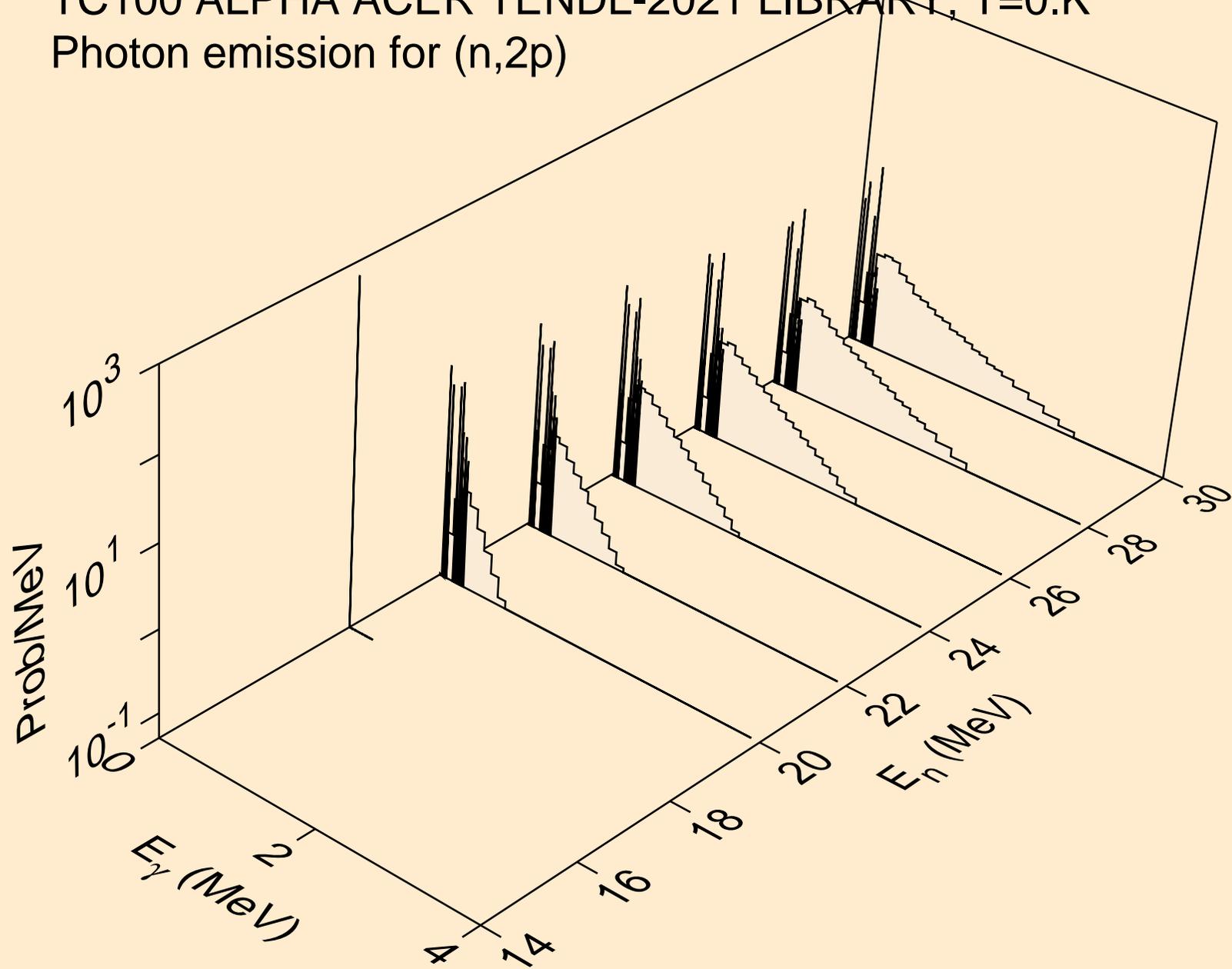TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,he3)

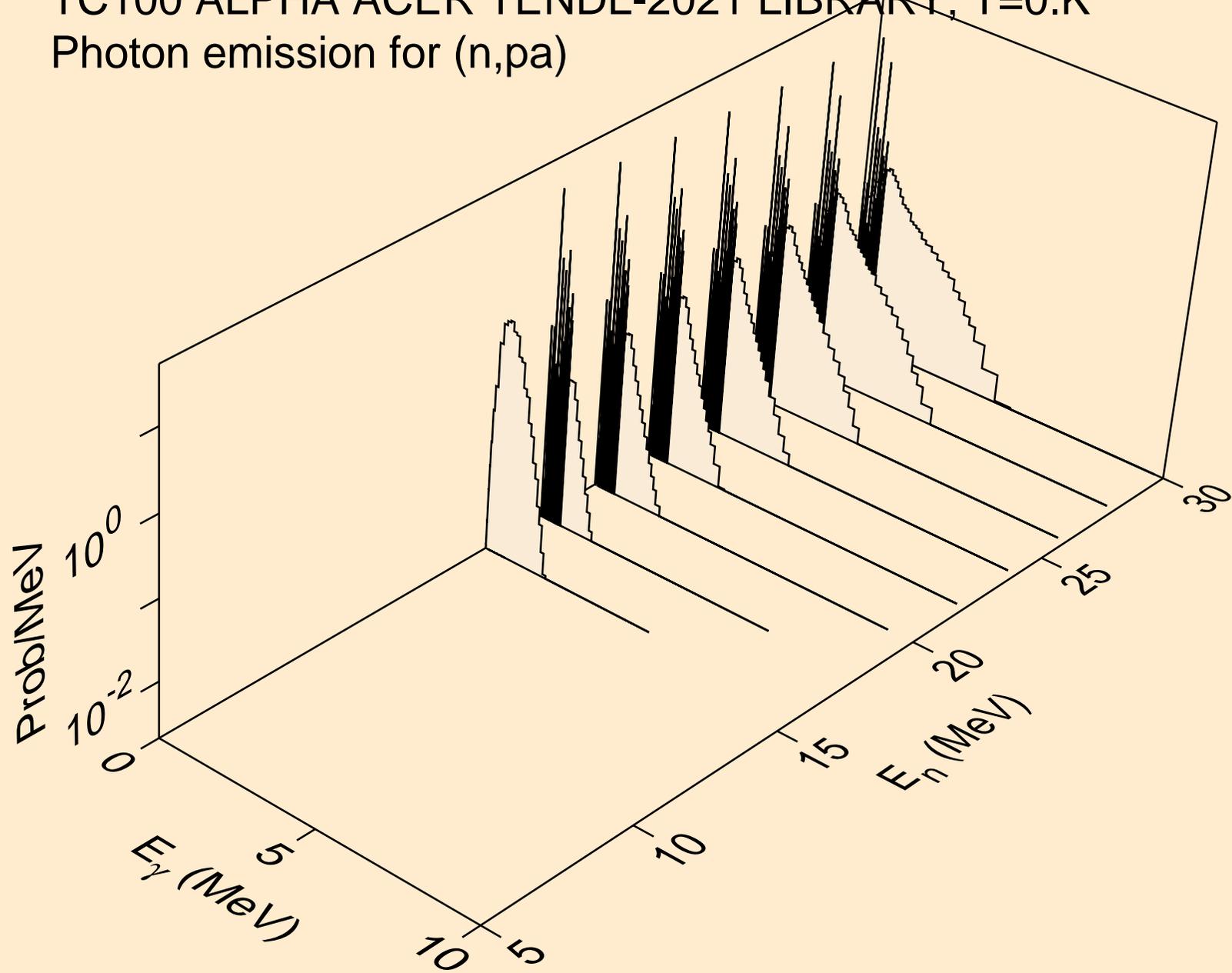TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for inelastic

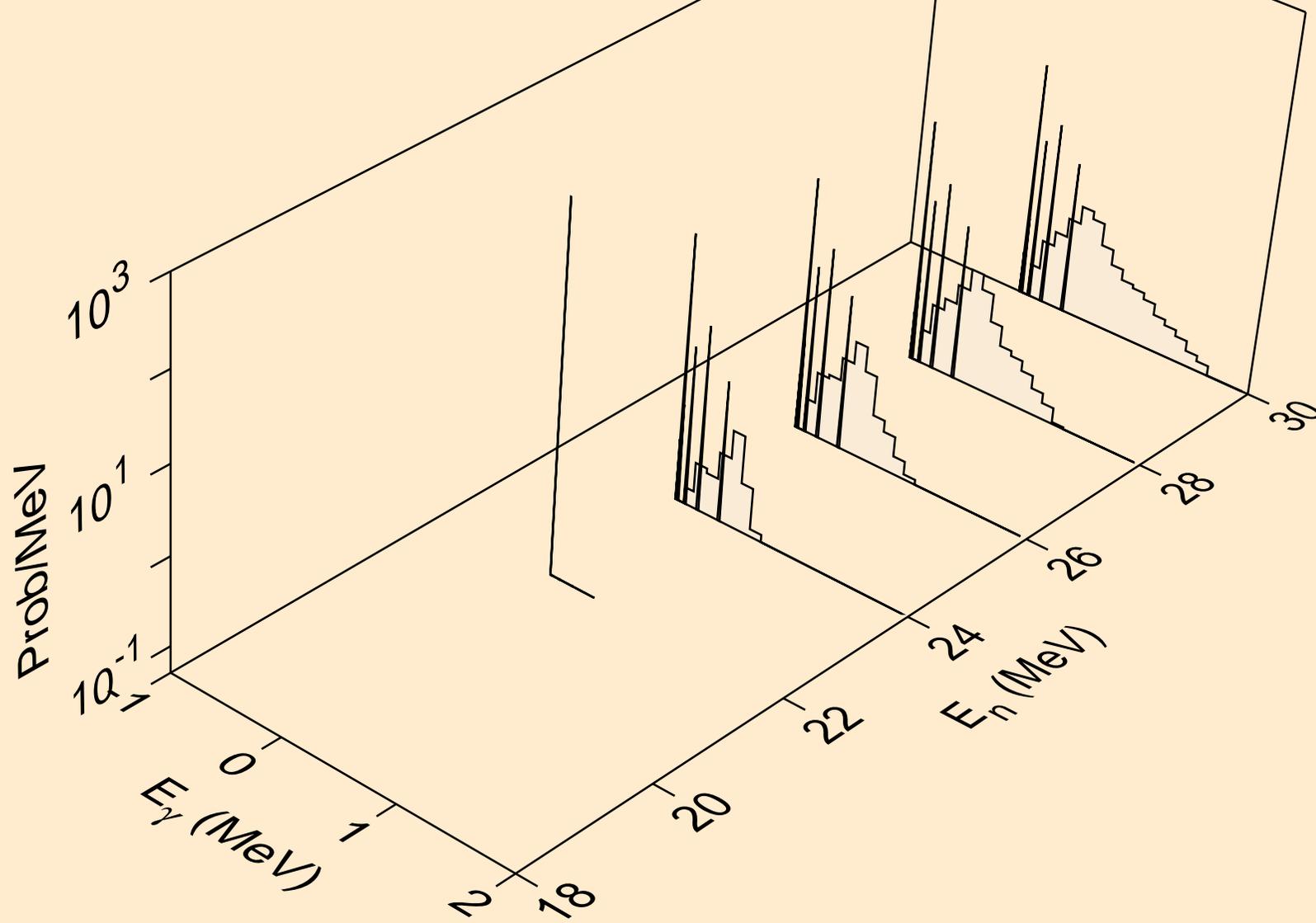TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,2a)

TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
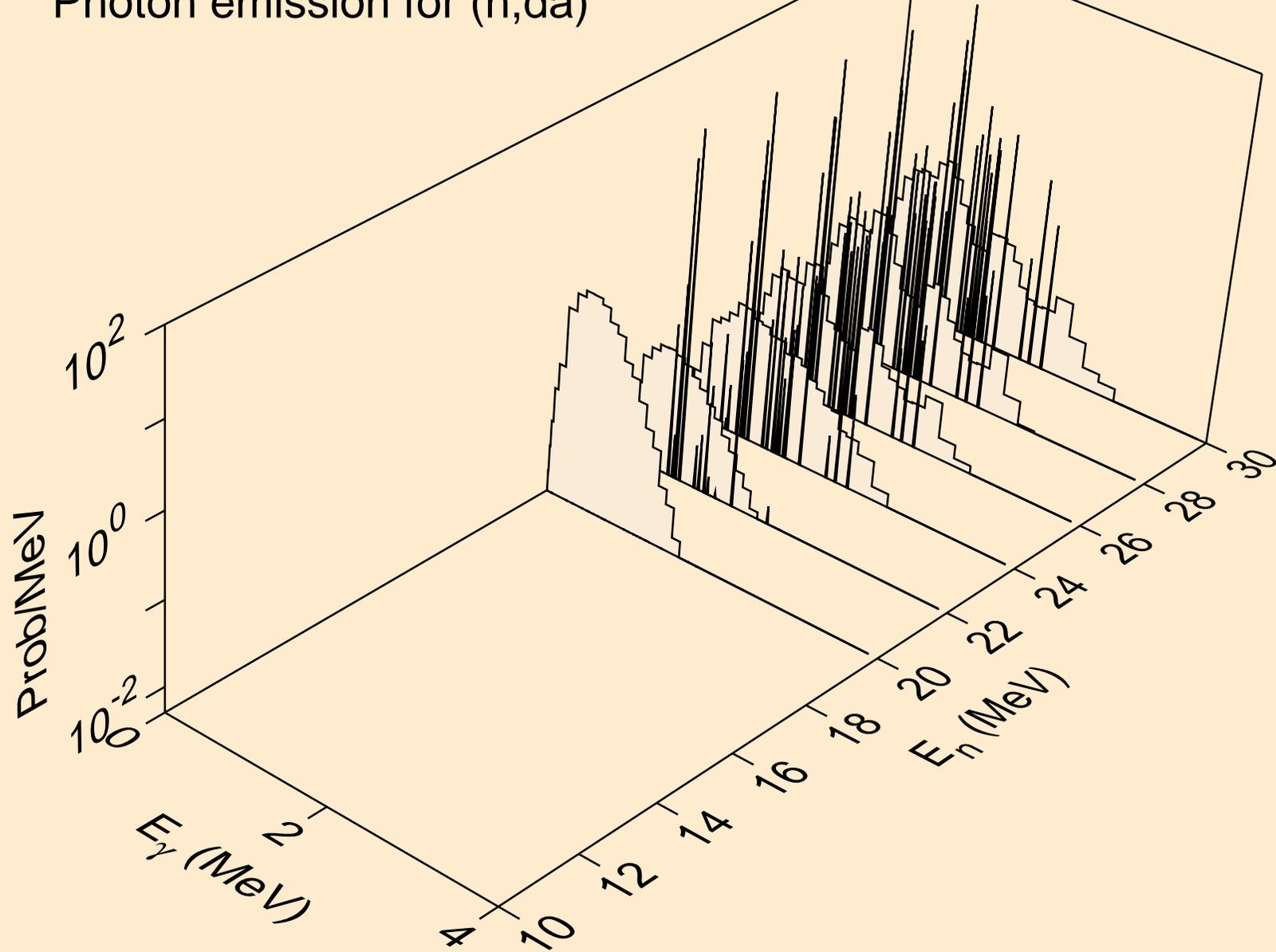Photon emission for (n,2p)

TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
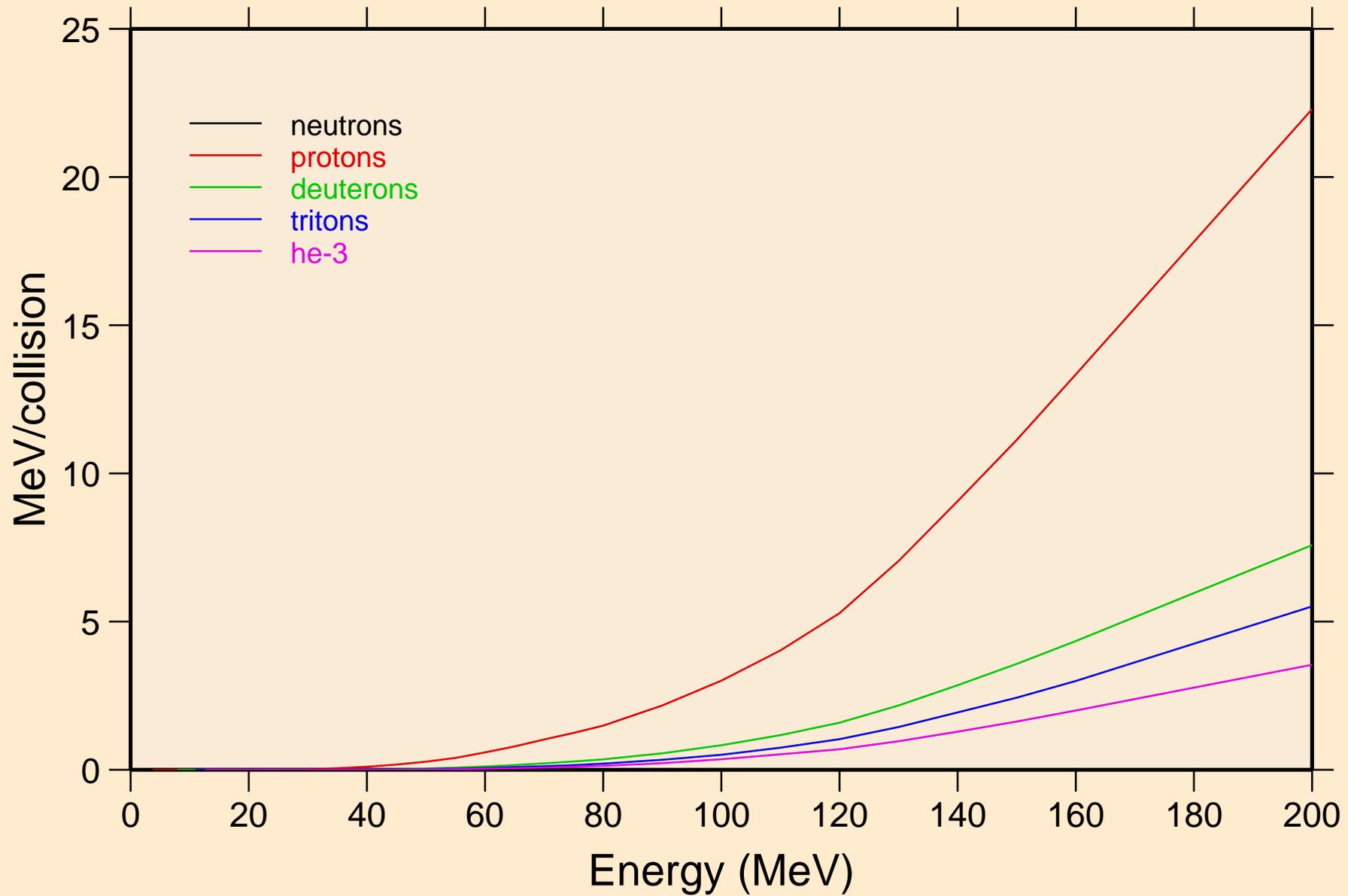Photon emission for (n,pa)

TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
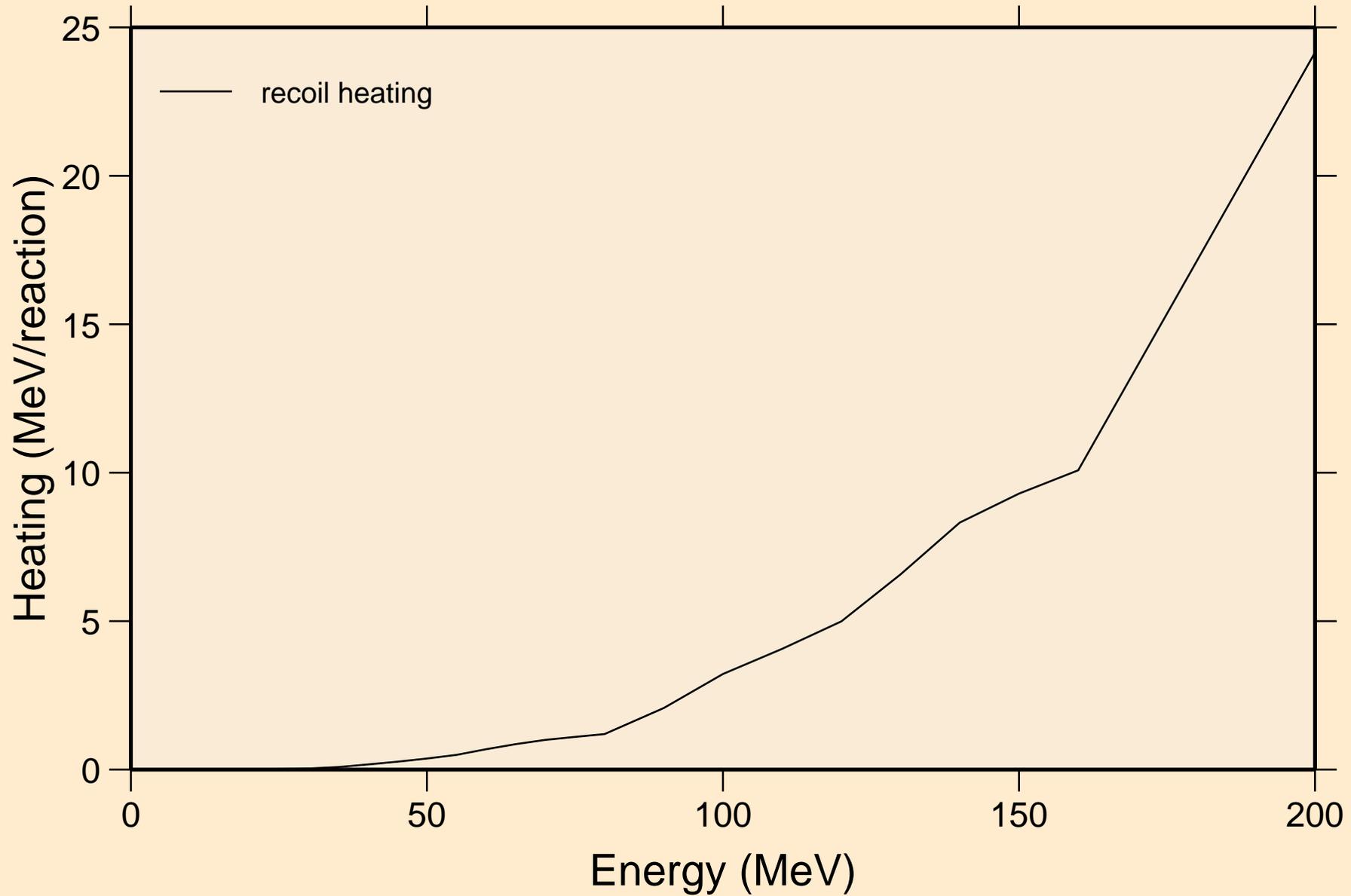Photon emission for (n,pd)

TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
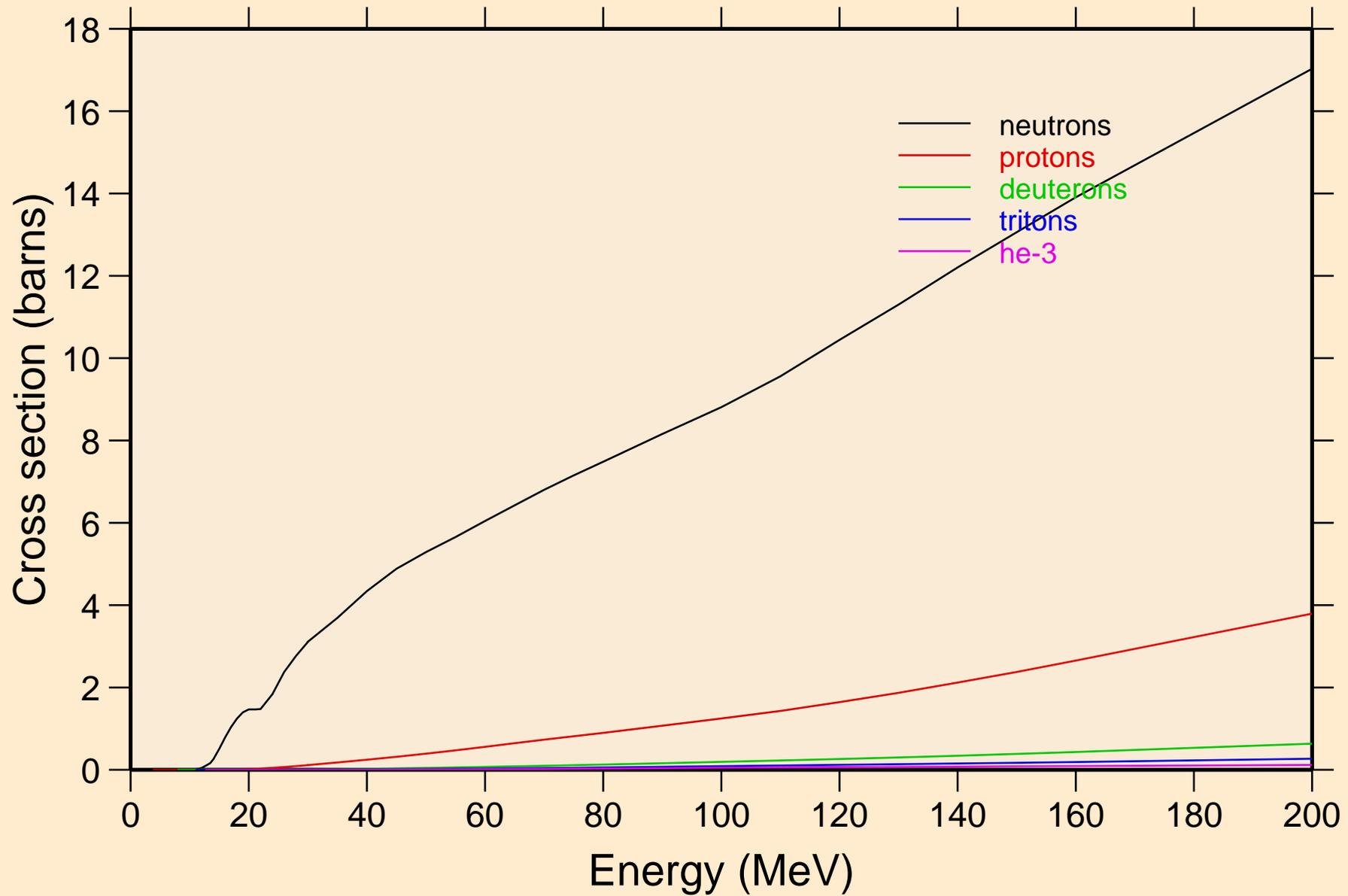Photon emission for (n,da)

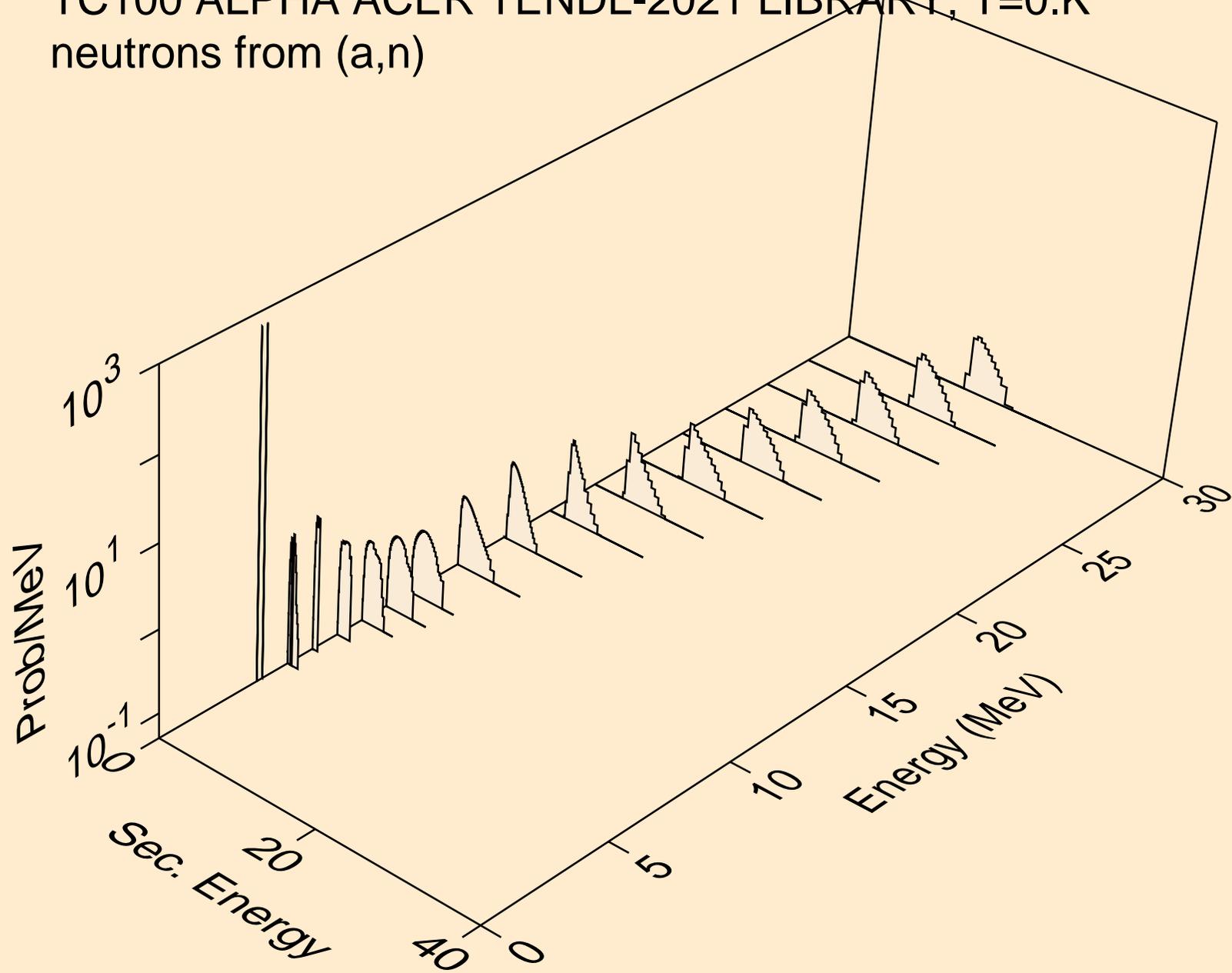TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Particle heating contributions

- neutrons
- protons
- deuterons
- tritons
- he-3

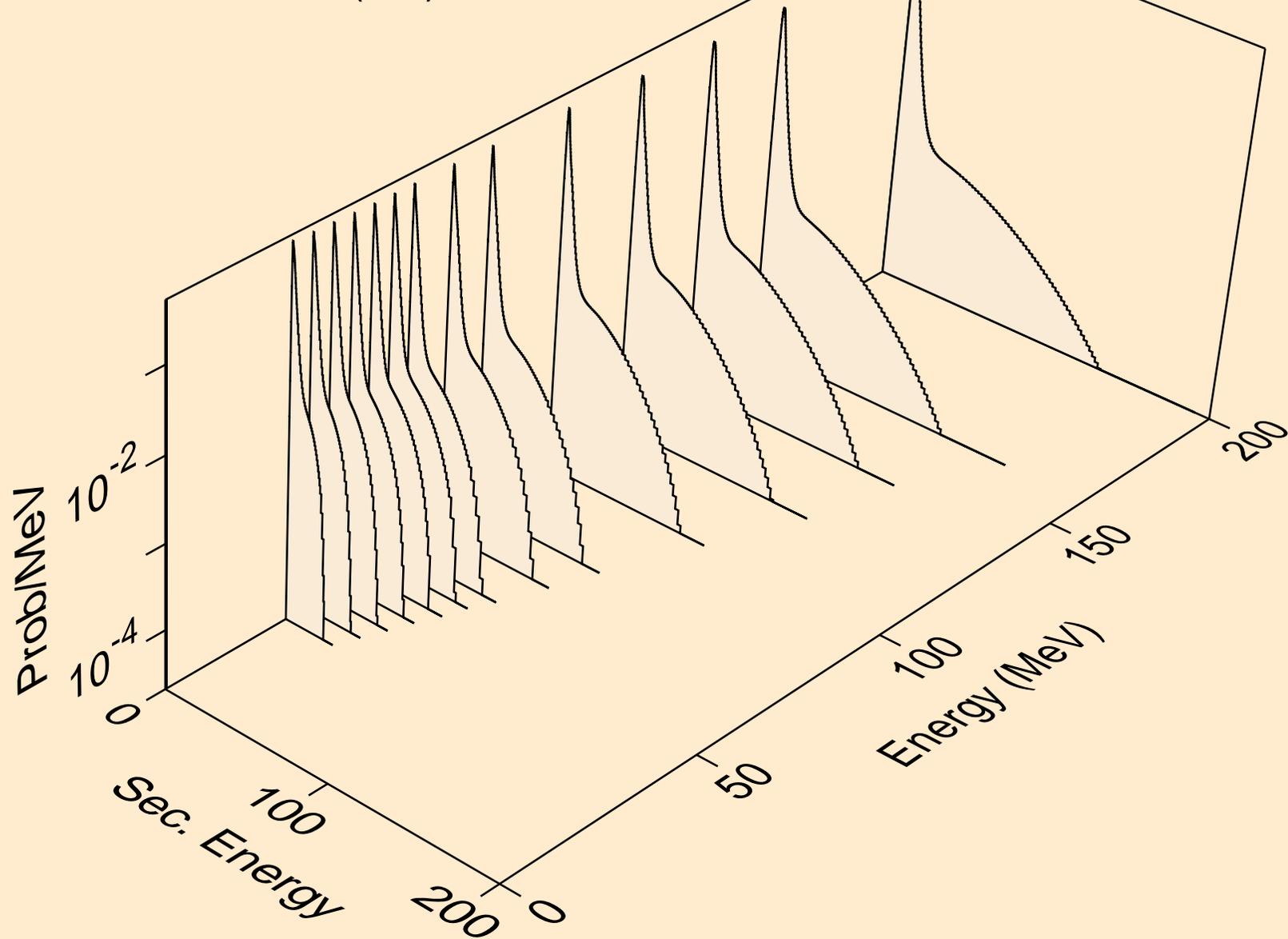# TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Recoil Heating

TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
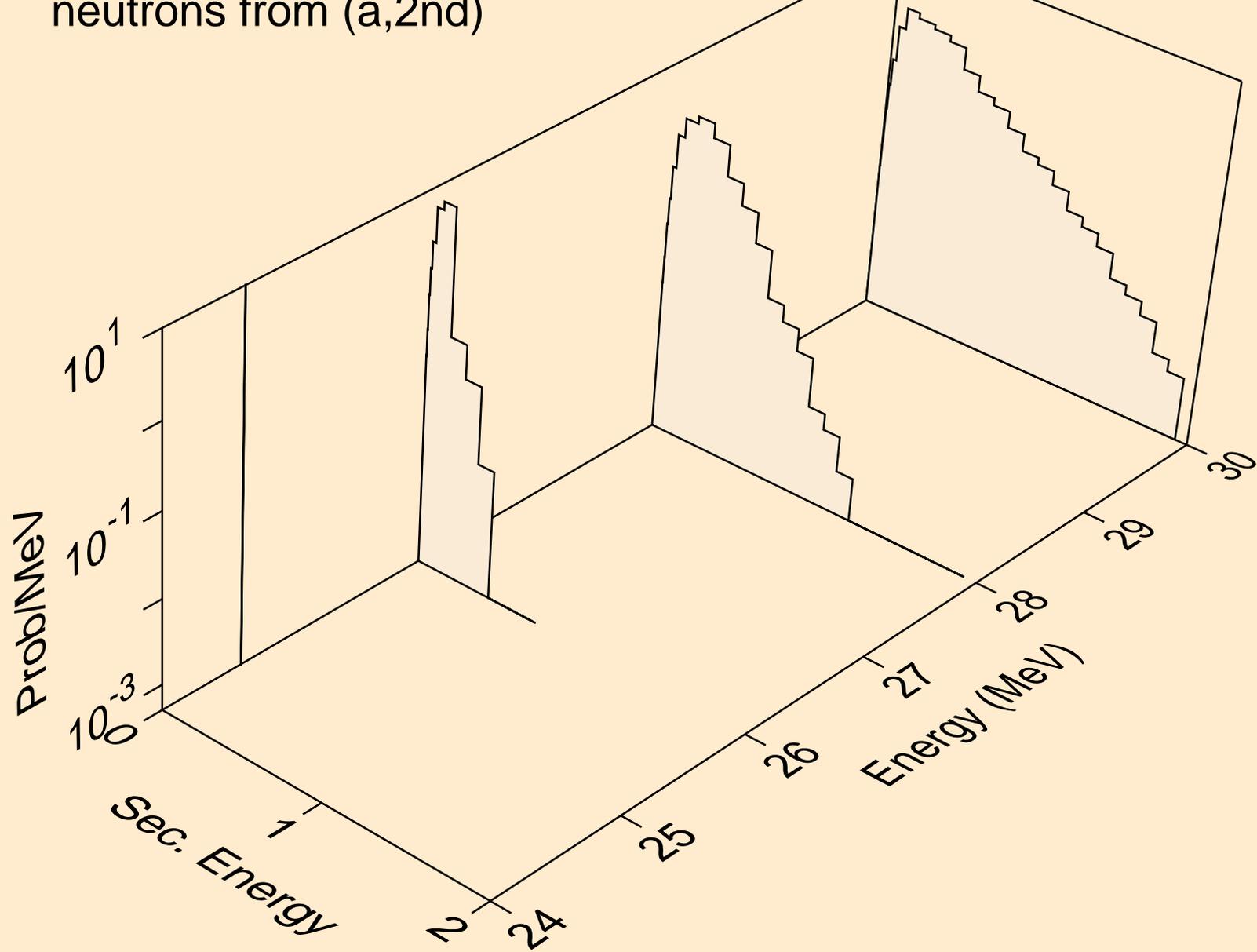Particle production cross sections

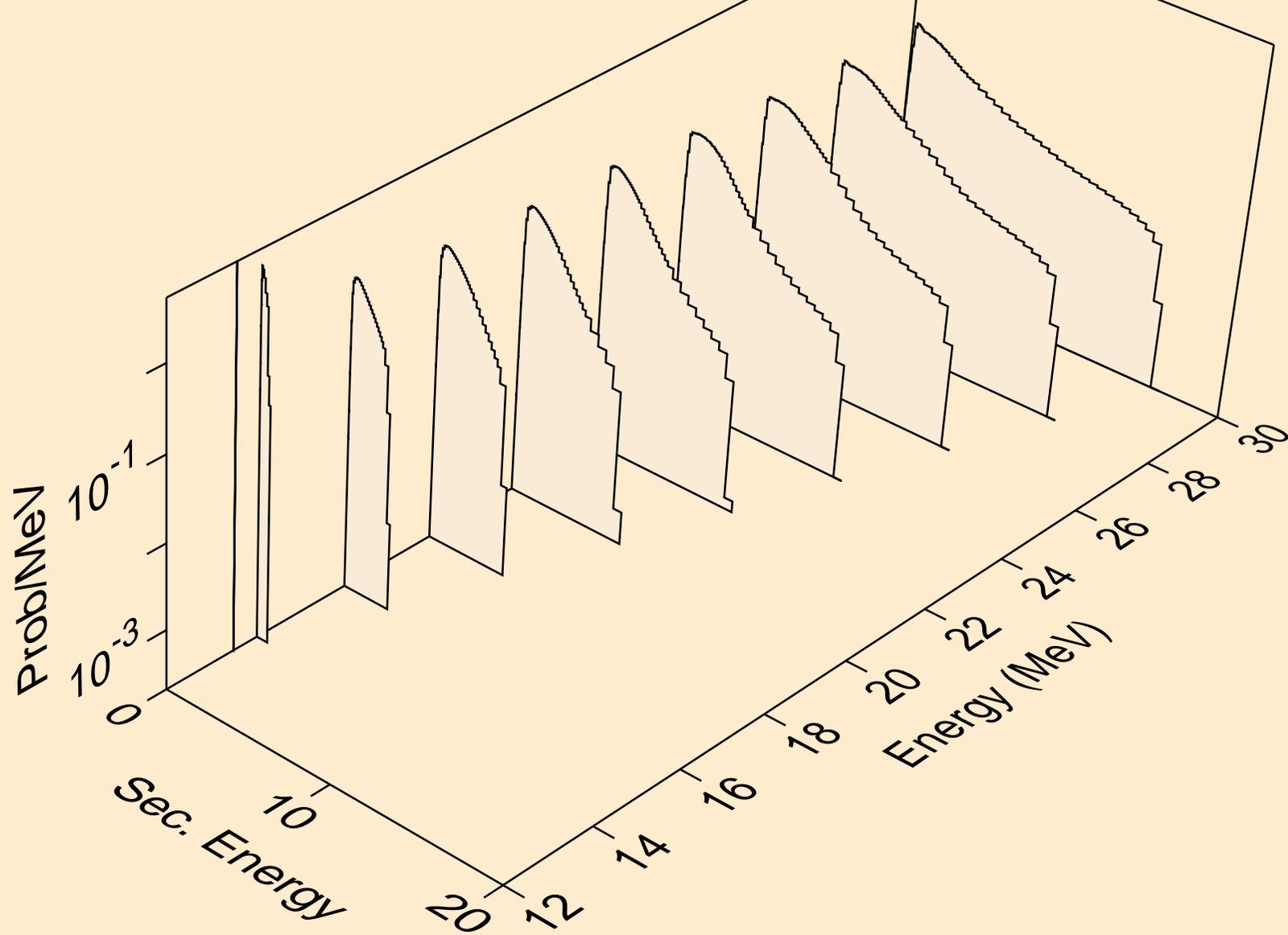TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (a,n)

TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
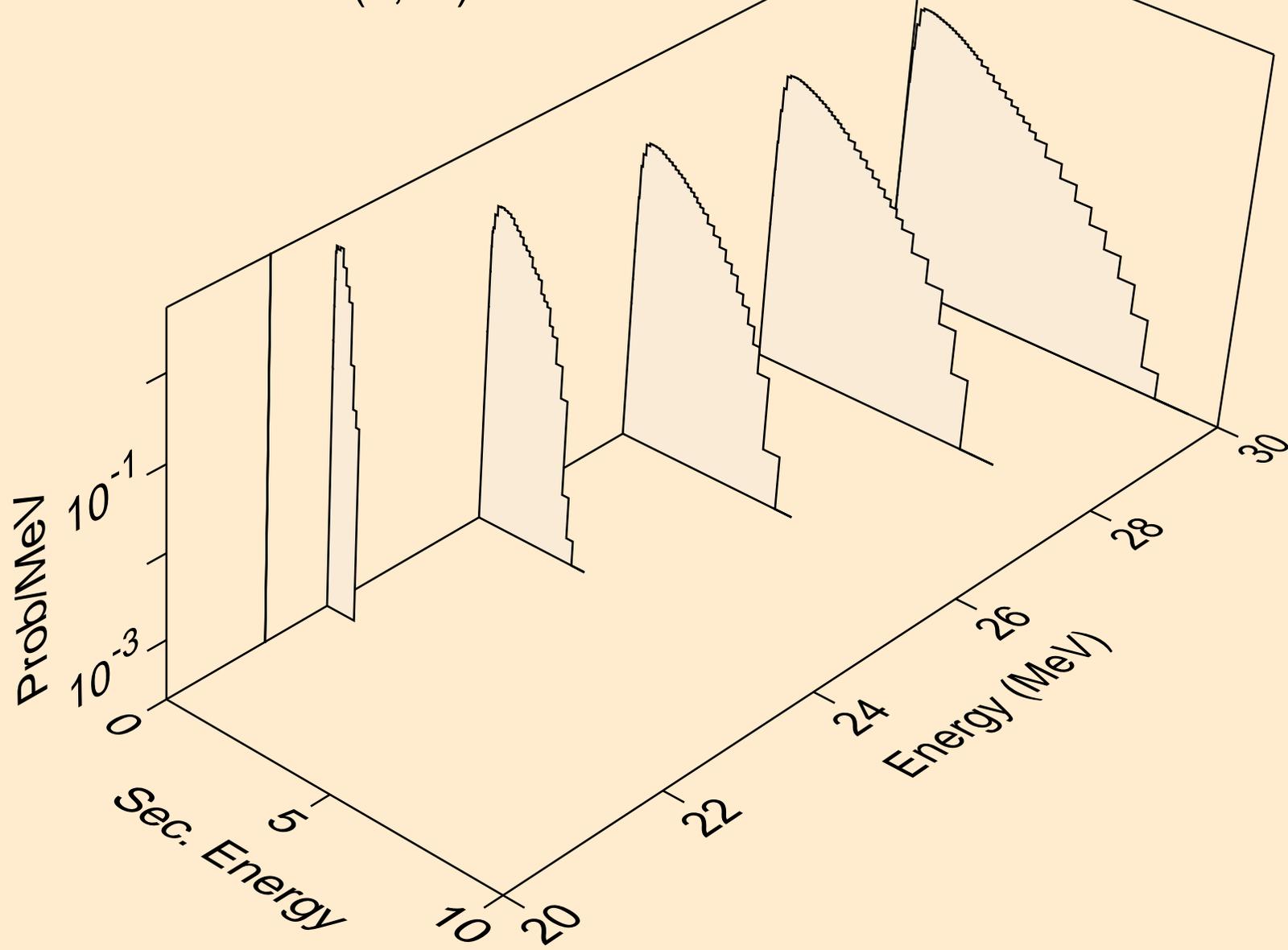neutrons from (a,x)

TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
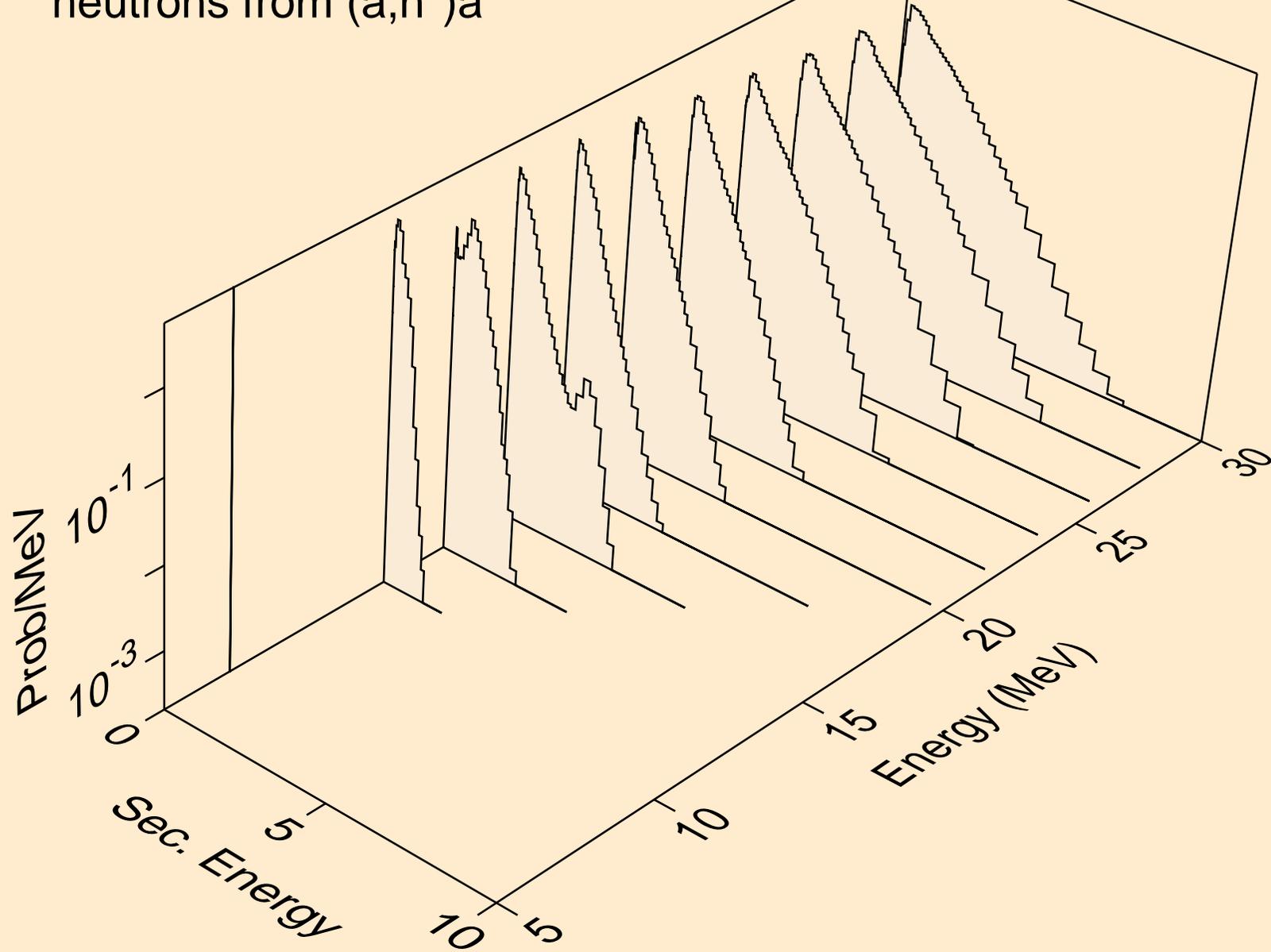neutrons from (a,2nd)

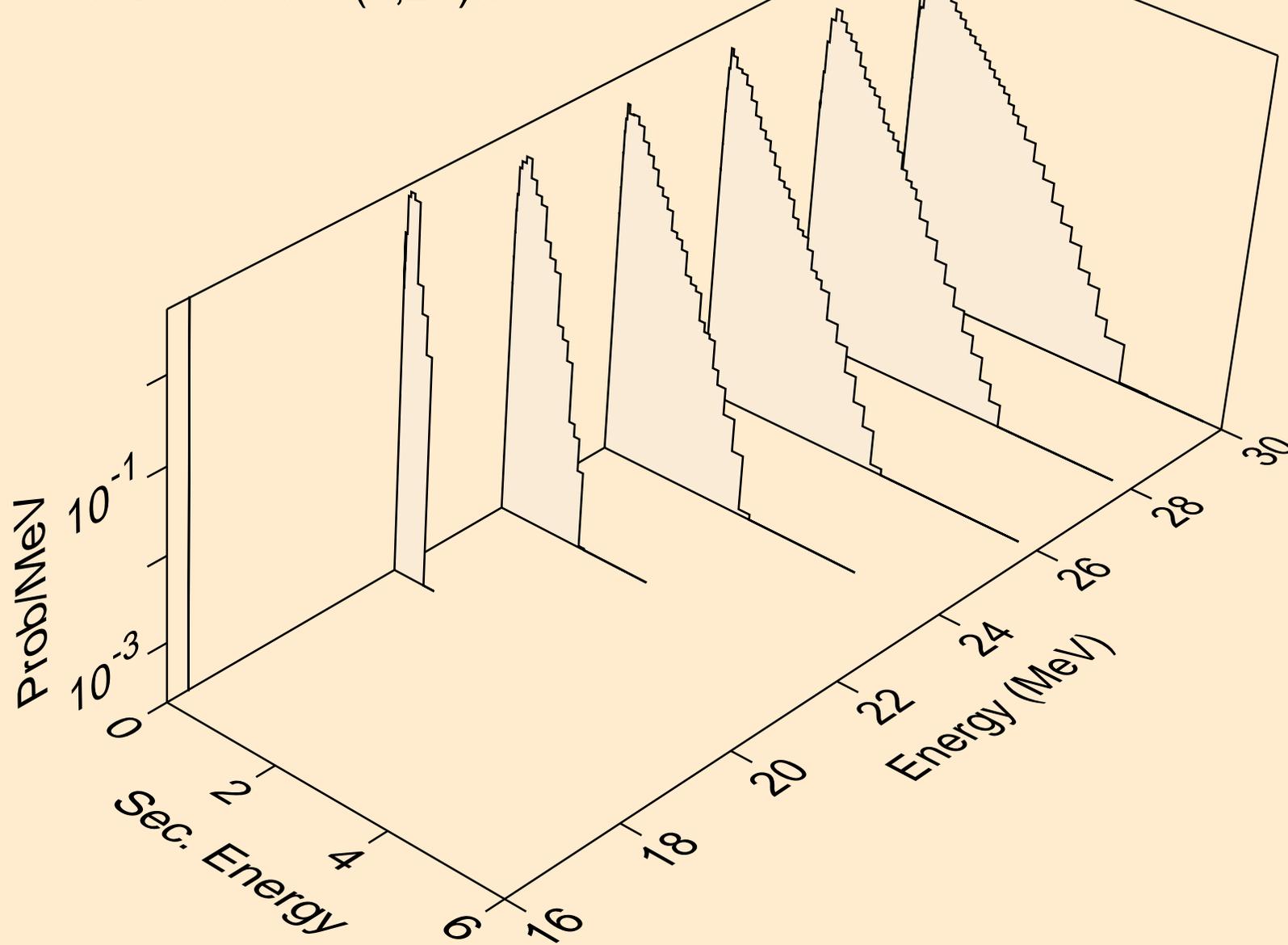TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (a,2n)

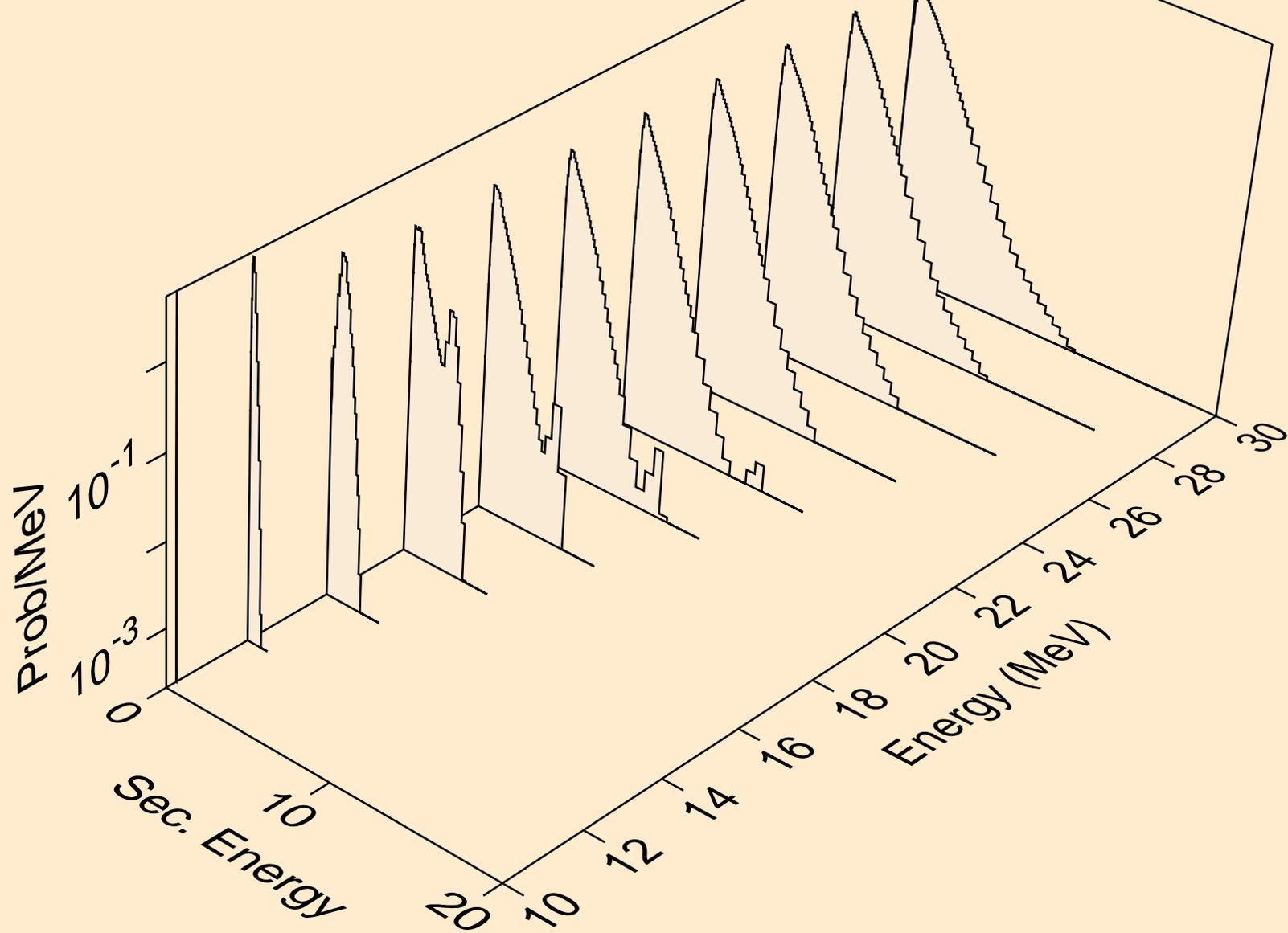TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (a,3n)

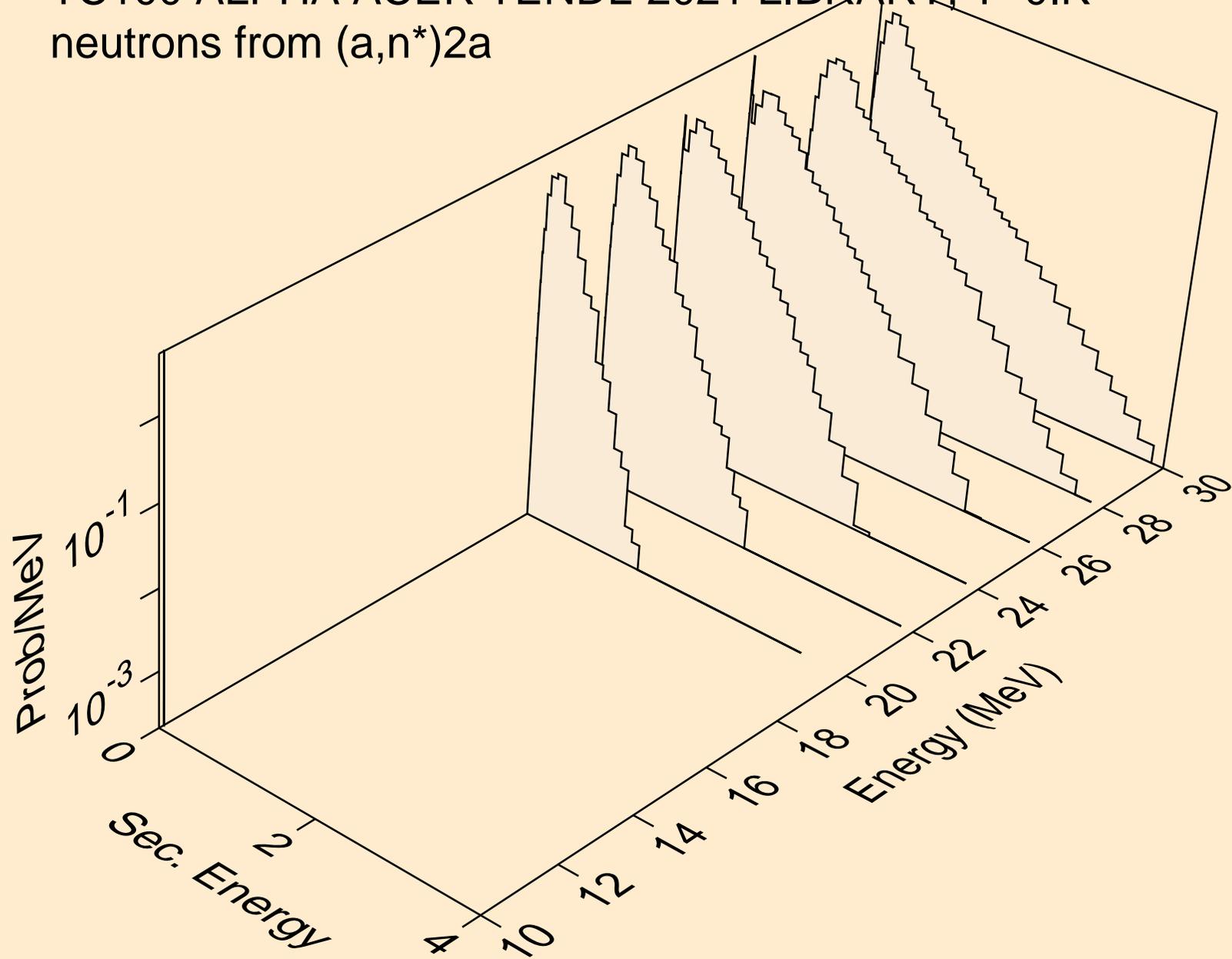TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (a,n*)a

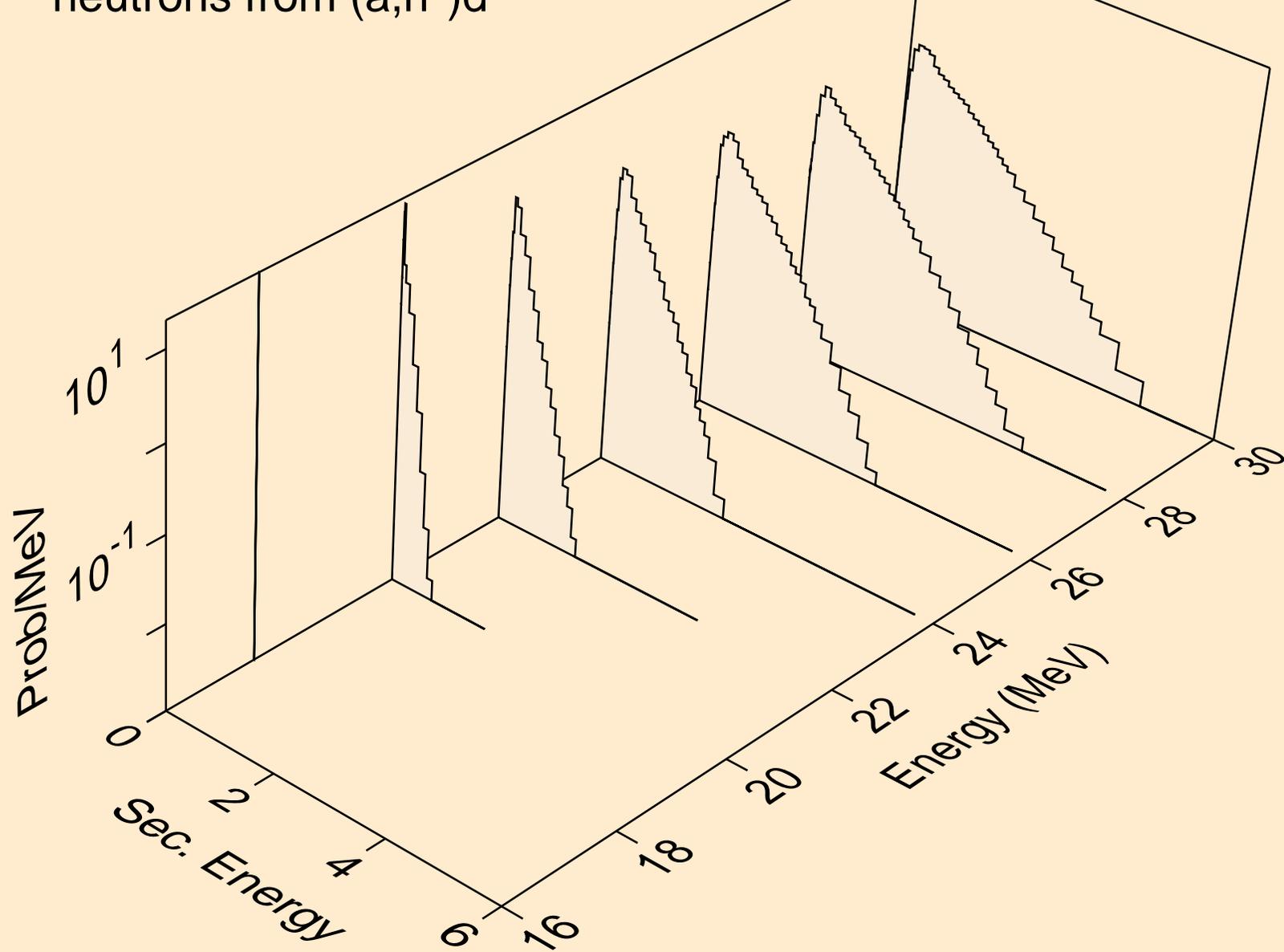TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (a,2n)a

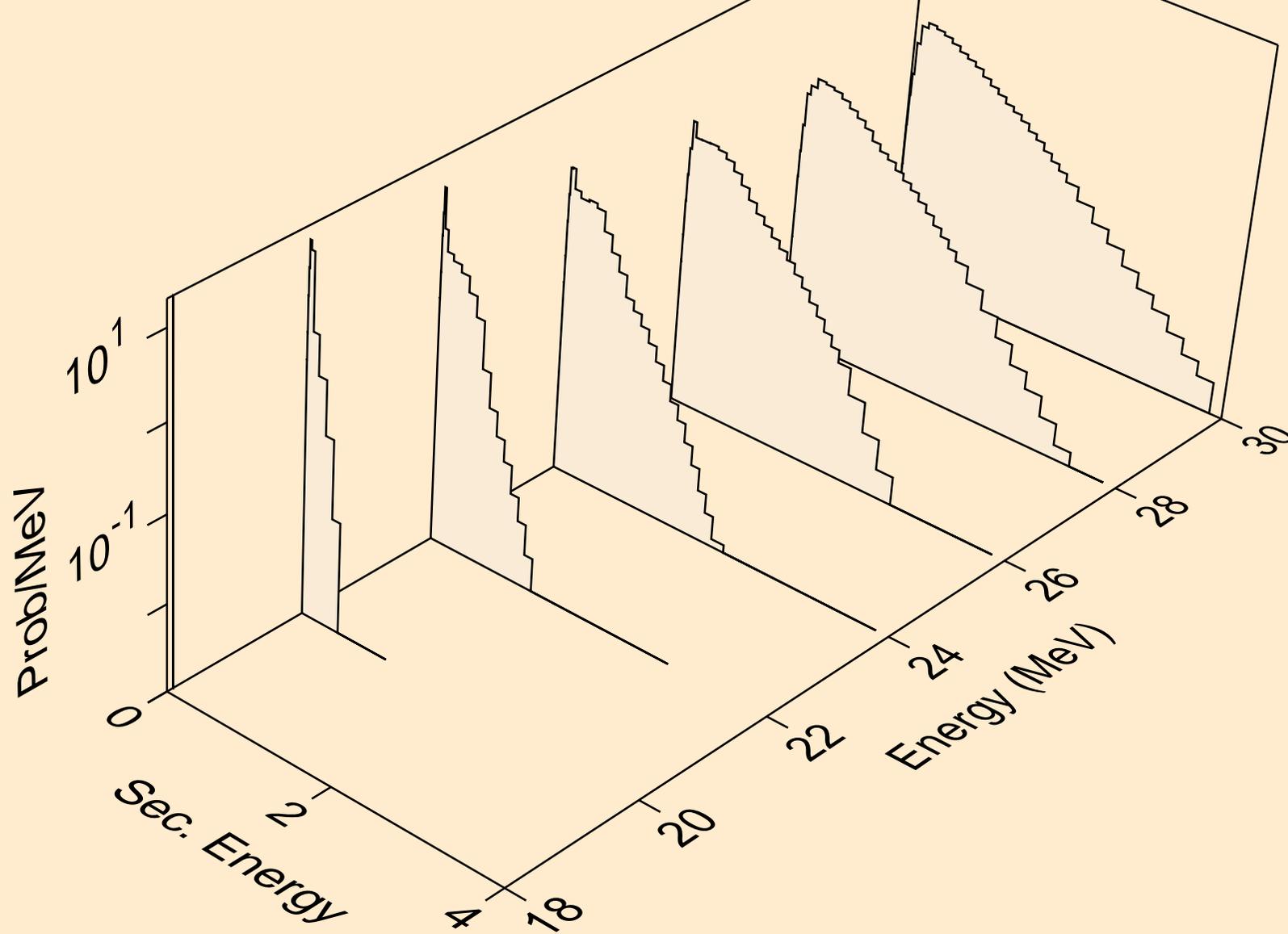TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (a,n*)p

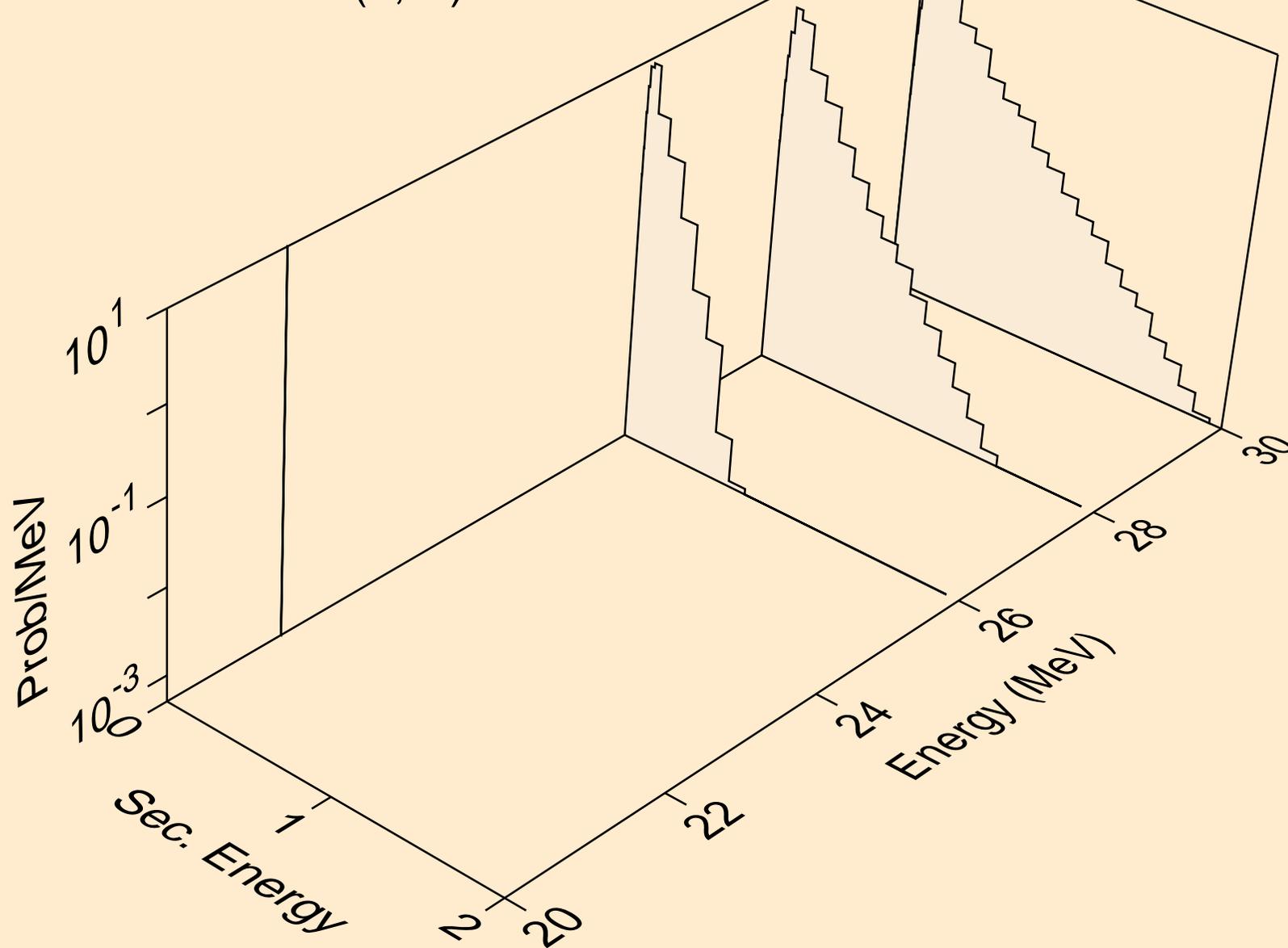TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (a,n*)2a

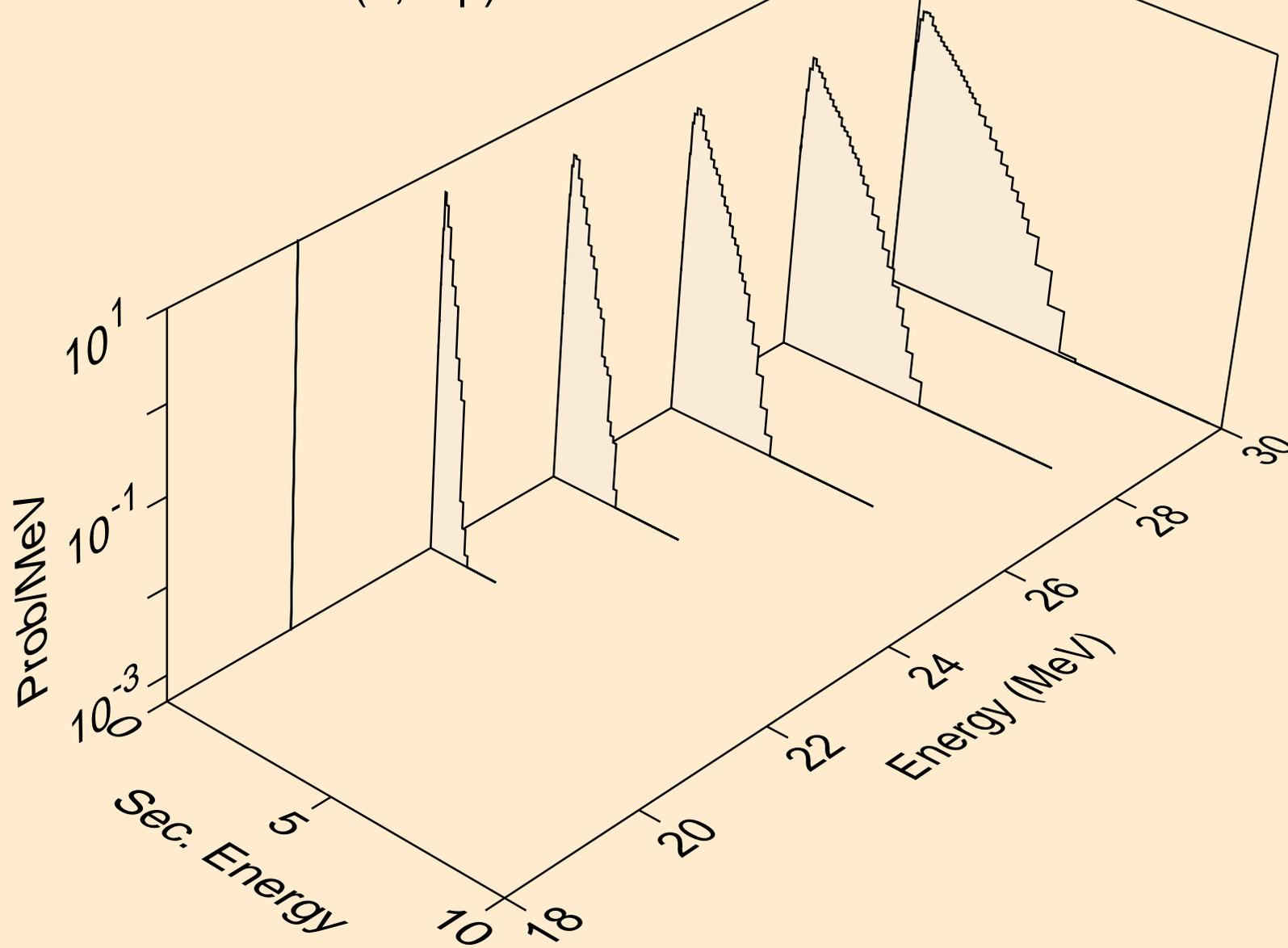TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (a,n*)d

TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (a,n*)t
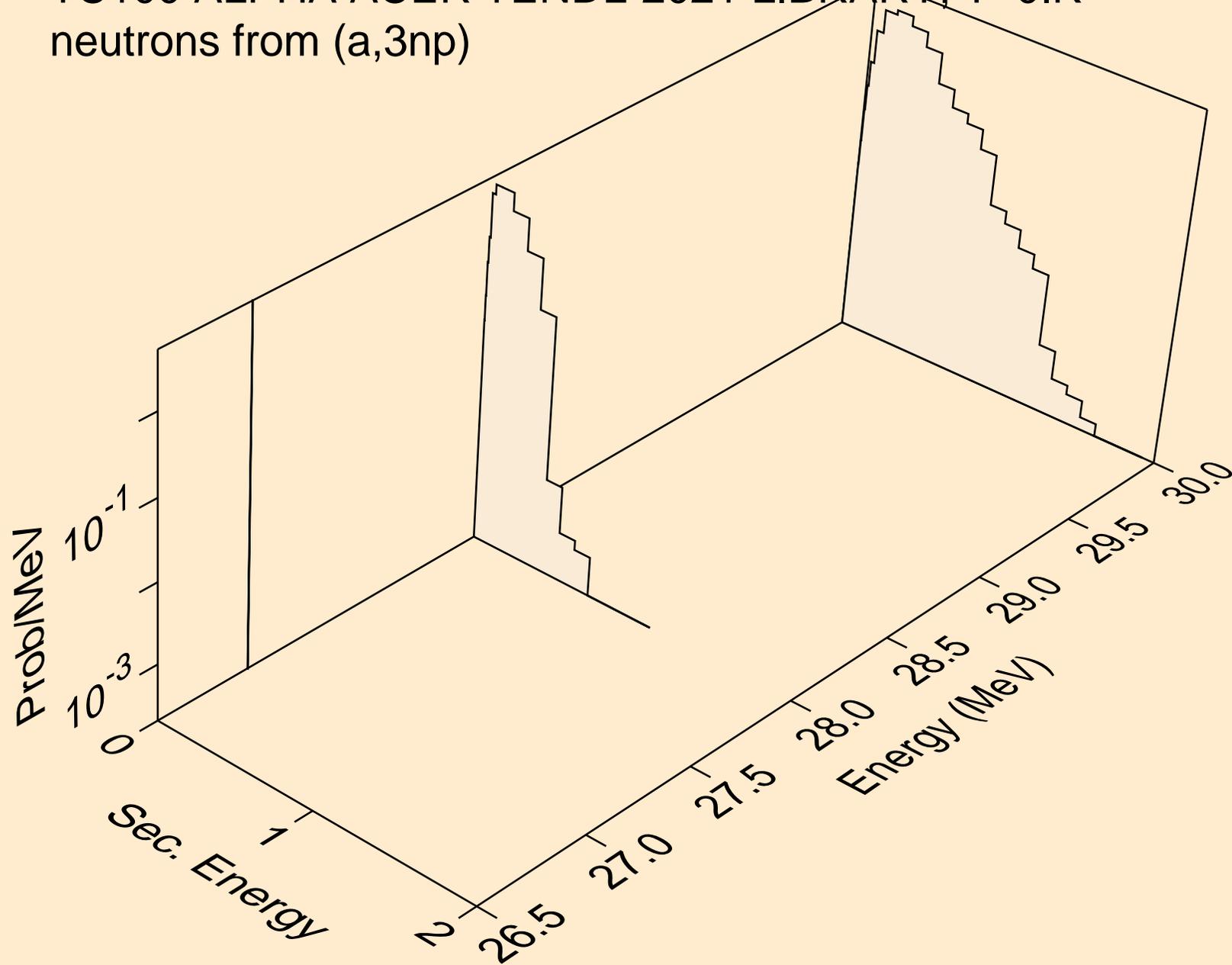
TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
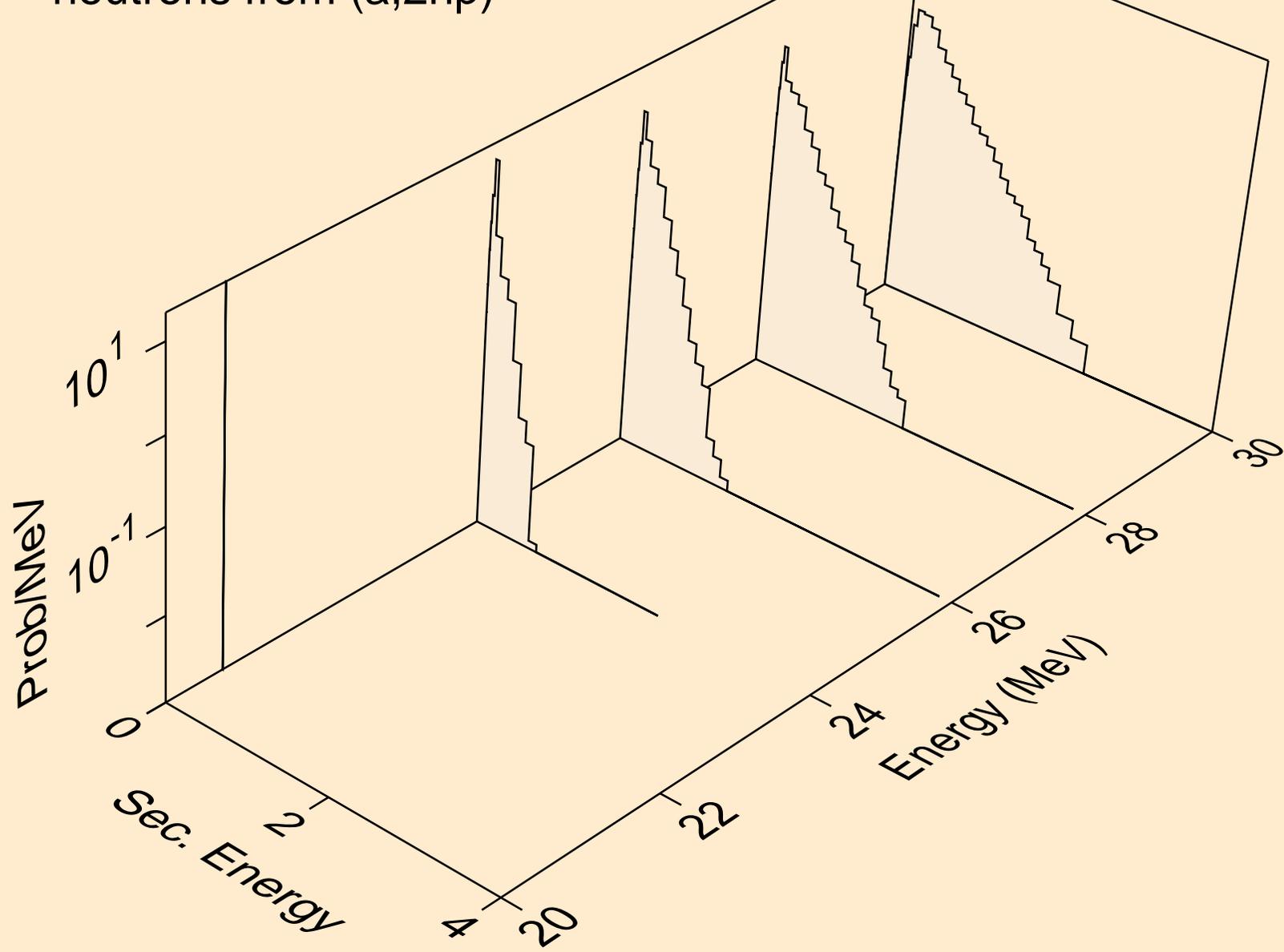neutrons from (a,n*)he3

TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
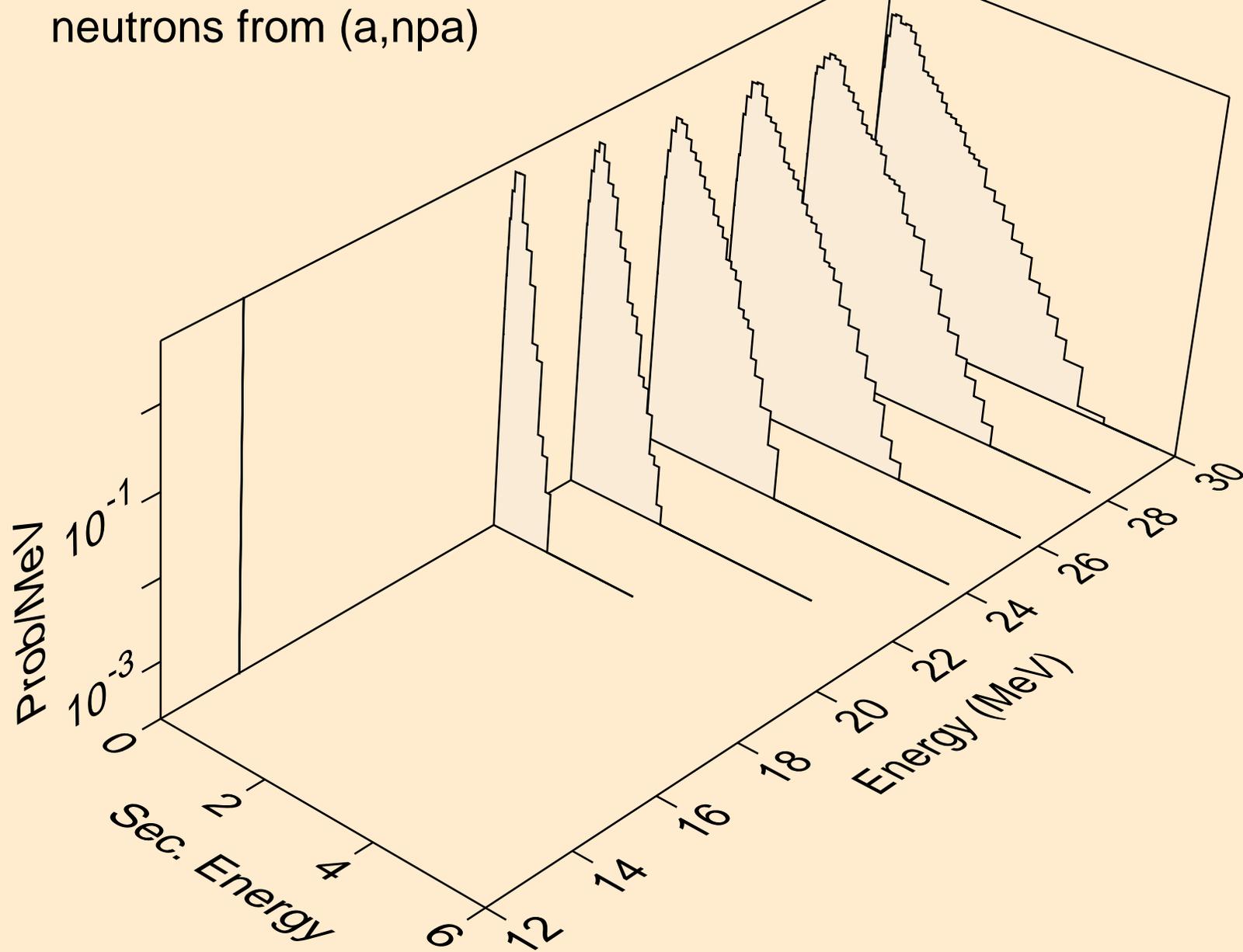neutrons from (a,2np)

TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
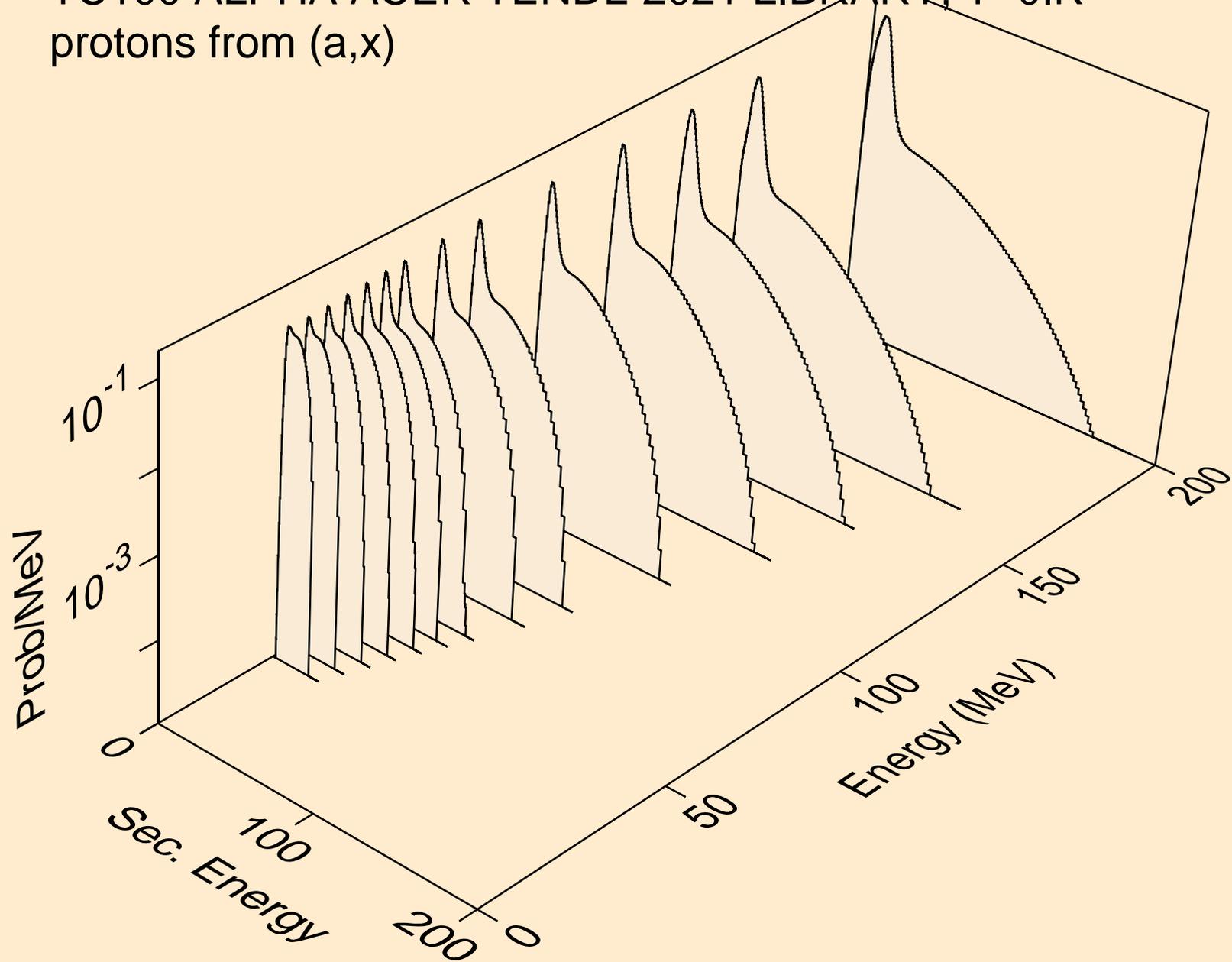neutrons from (a,3np)

TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
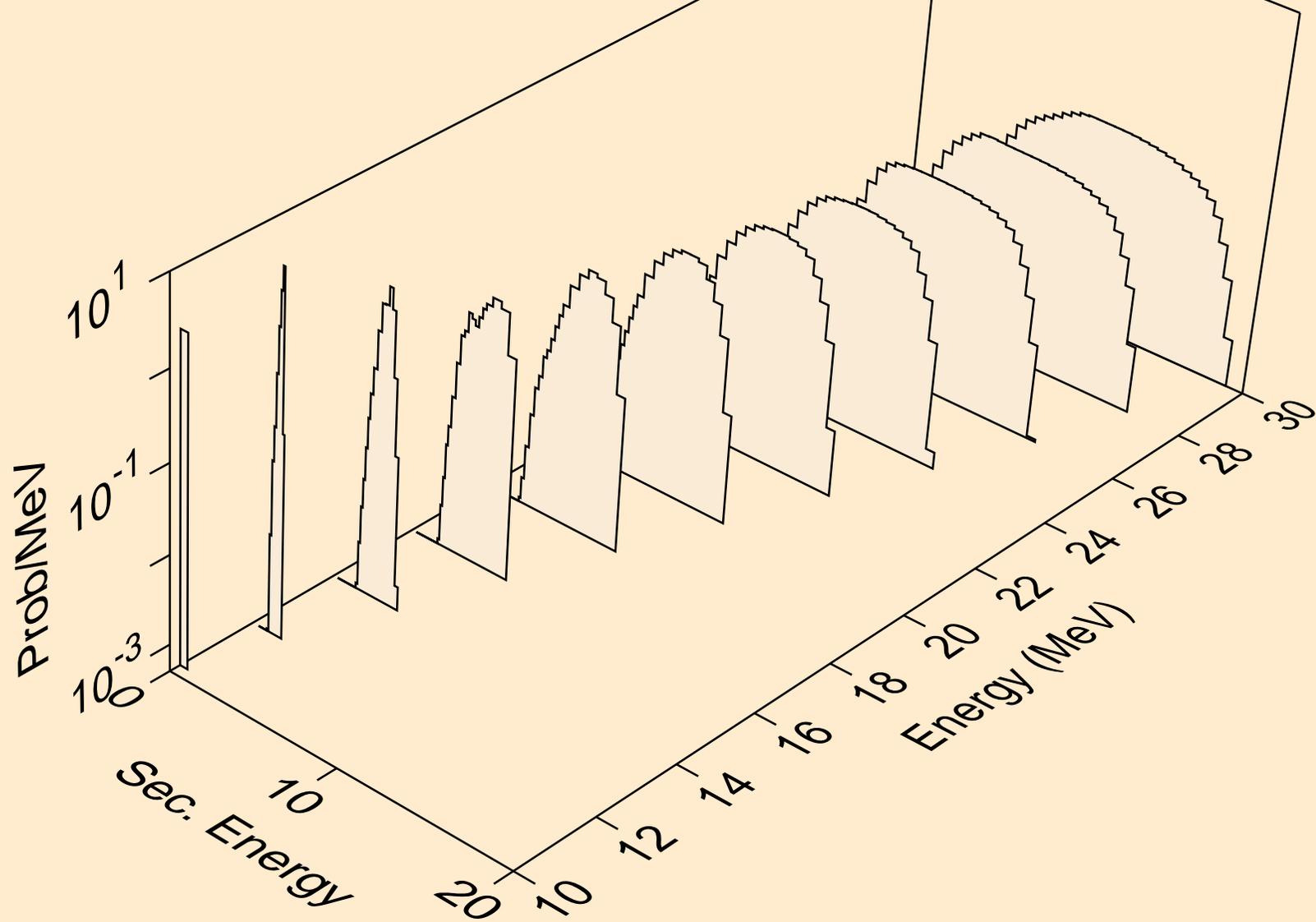neutrons from (a,2np)

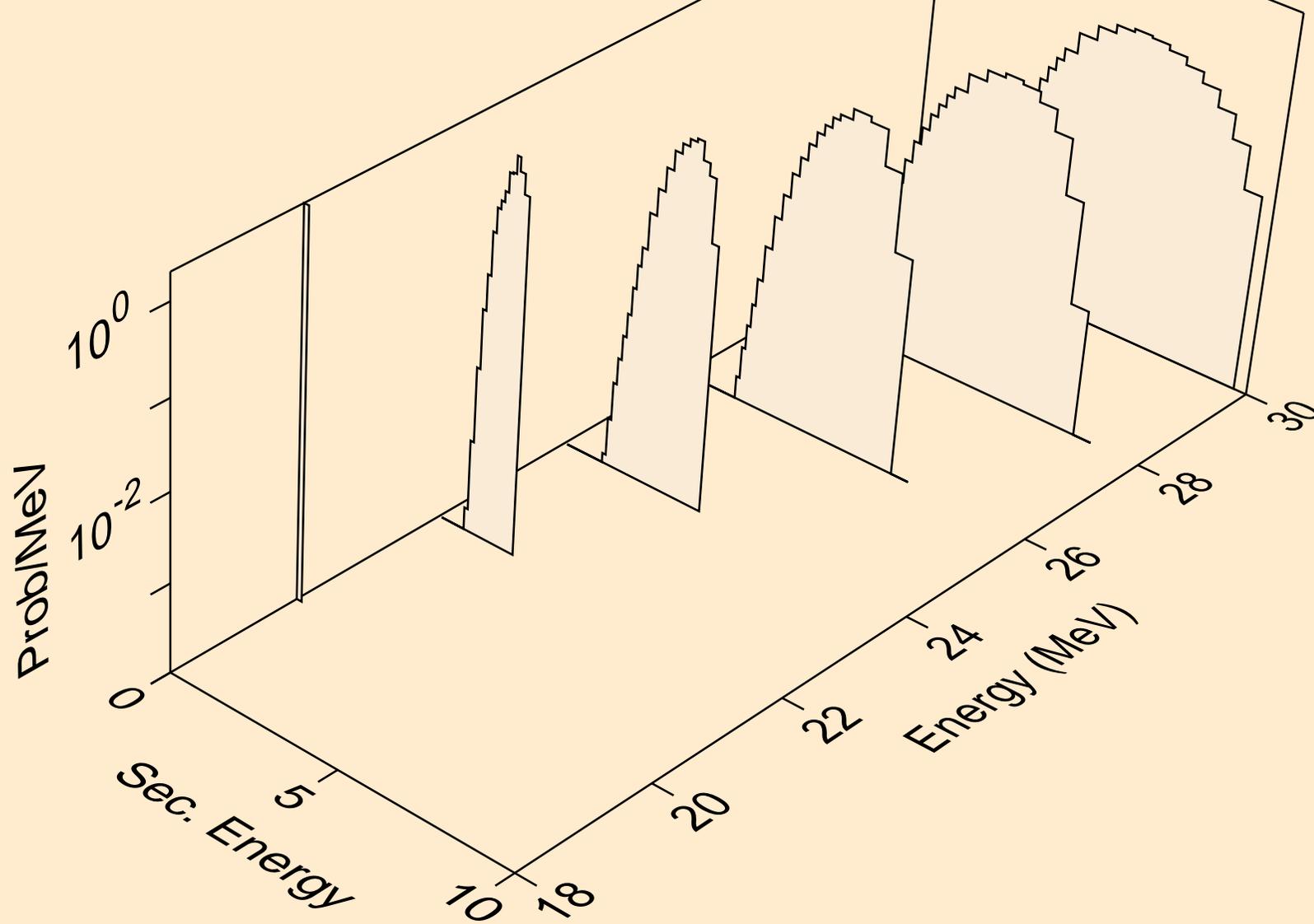TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (a,npa)

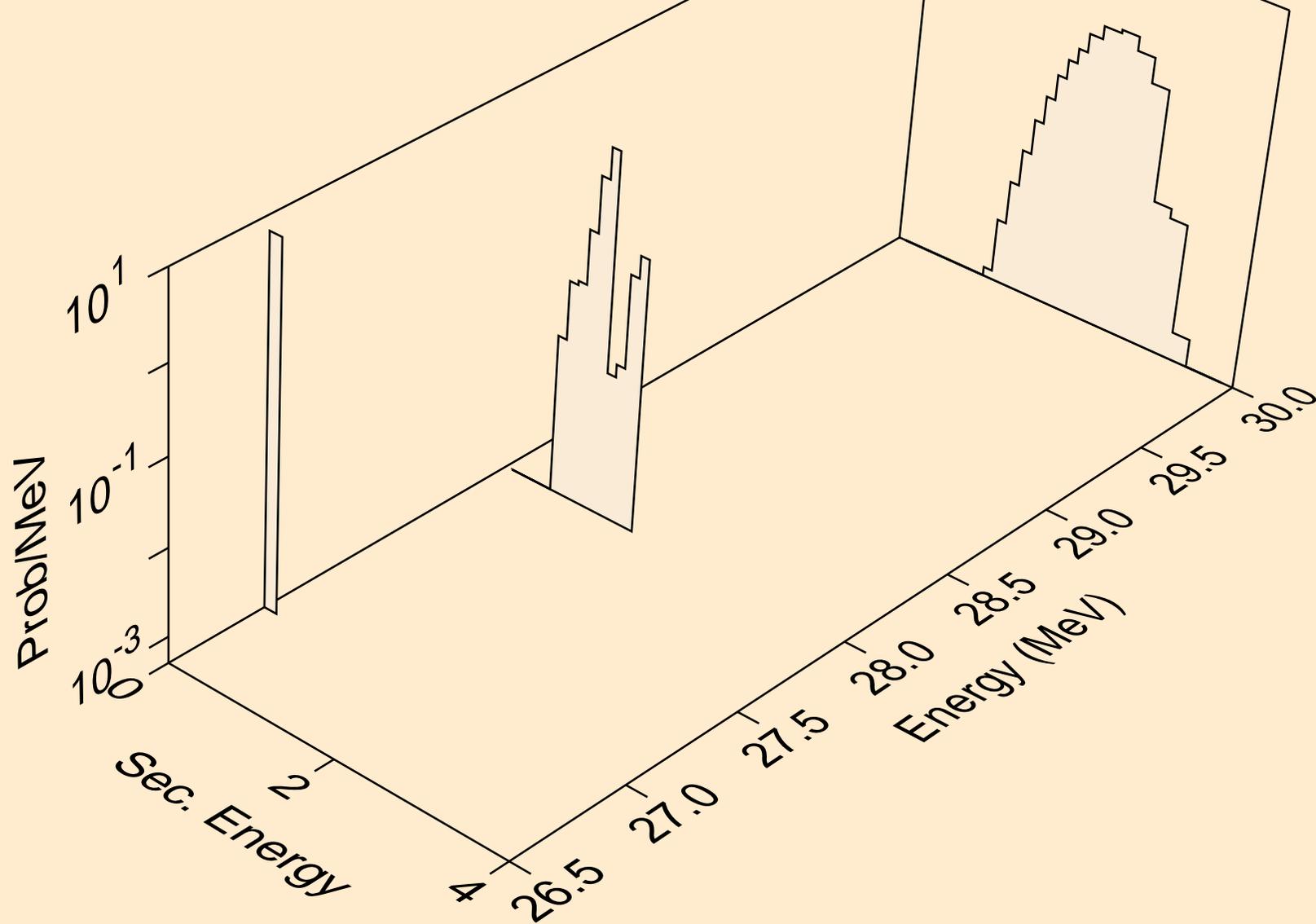TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
protons from (a,x)

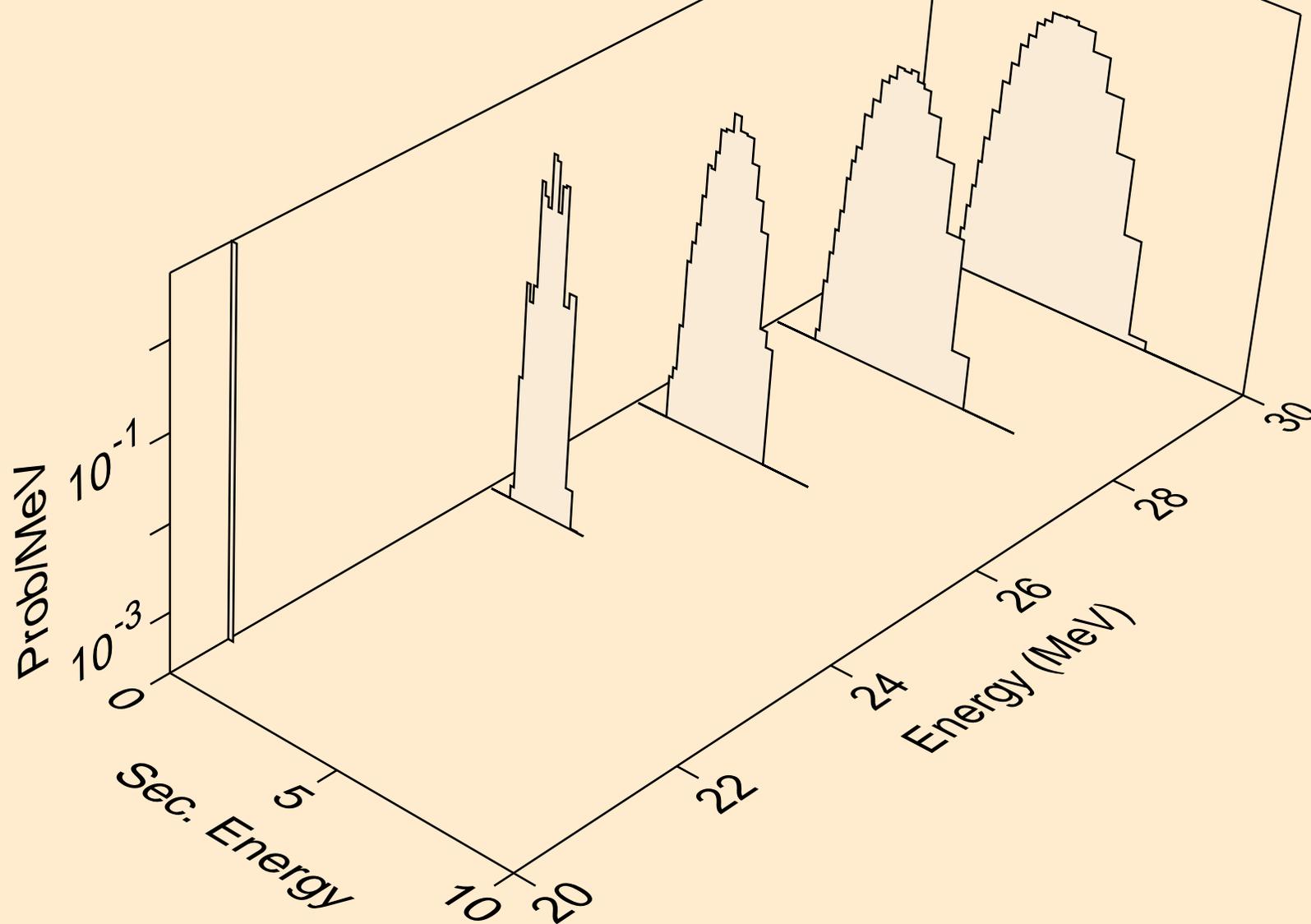TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
protons from (a,n*)p

TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
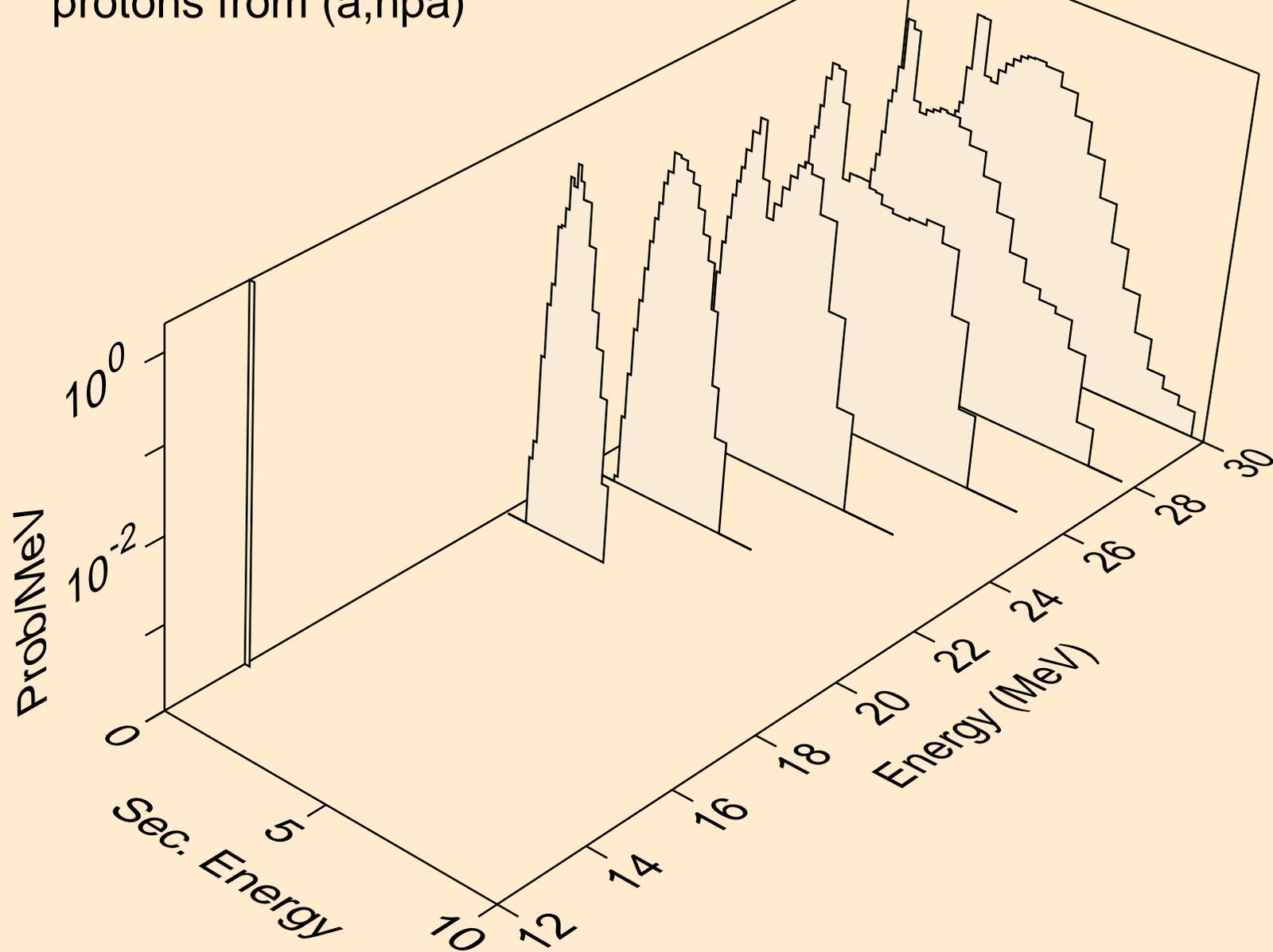protons from (a,2np)

TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
protons from (a,3np)

TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
protons from (a,2np)

TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
protons from (a,npa)

TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
protons from (a,p)

TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
protons from (a,2p)

Prob/MeV

10^0

10^{-2}

0

Sec. Energy
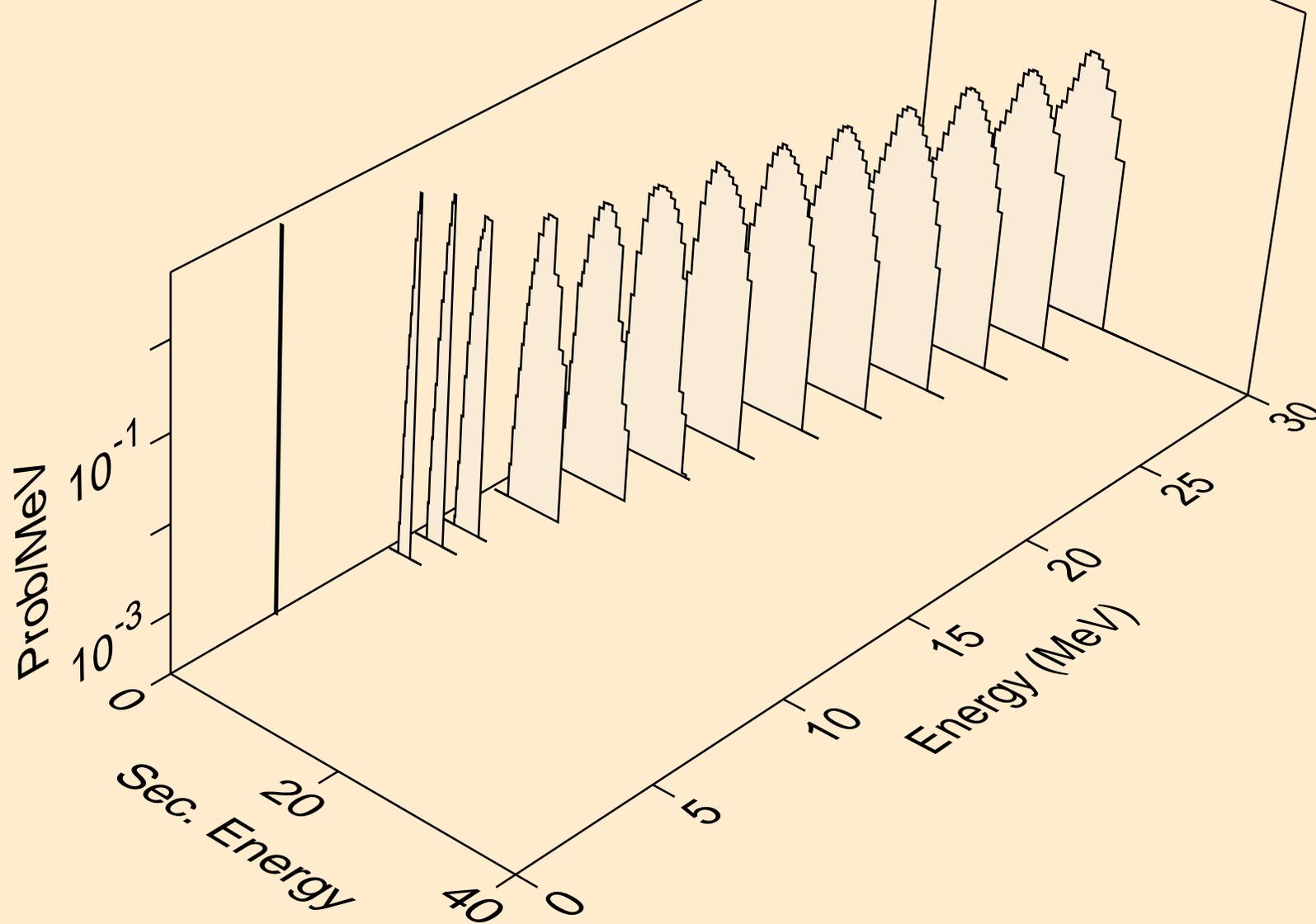
10
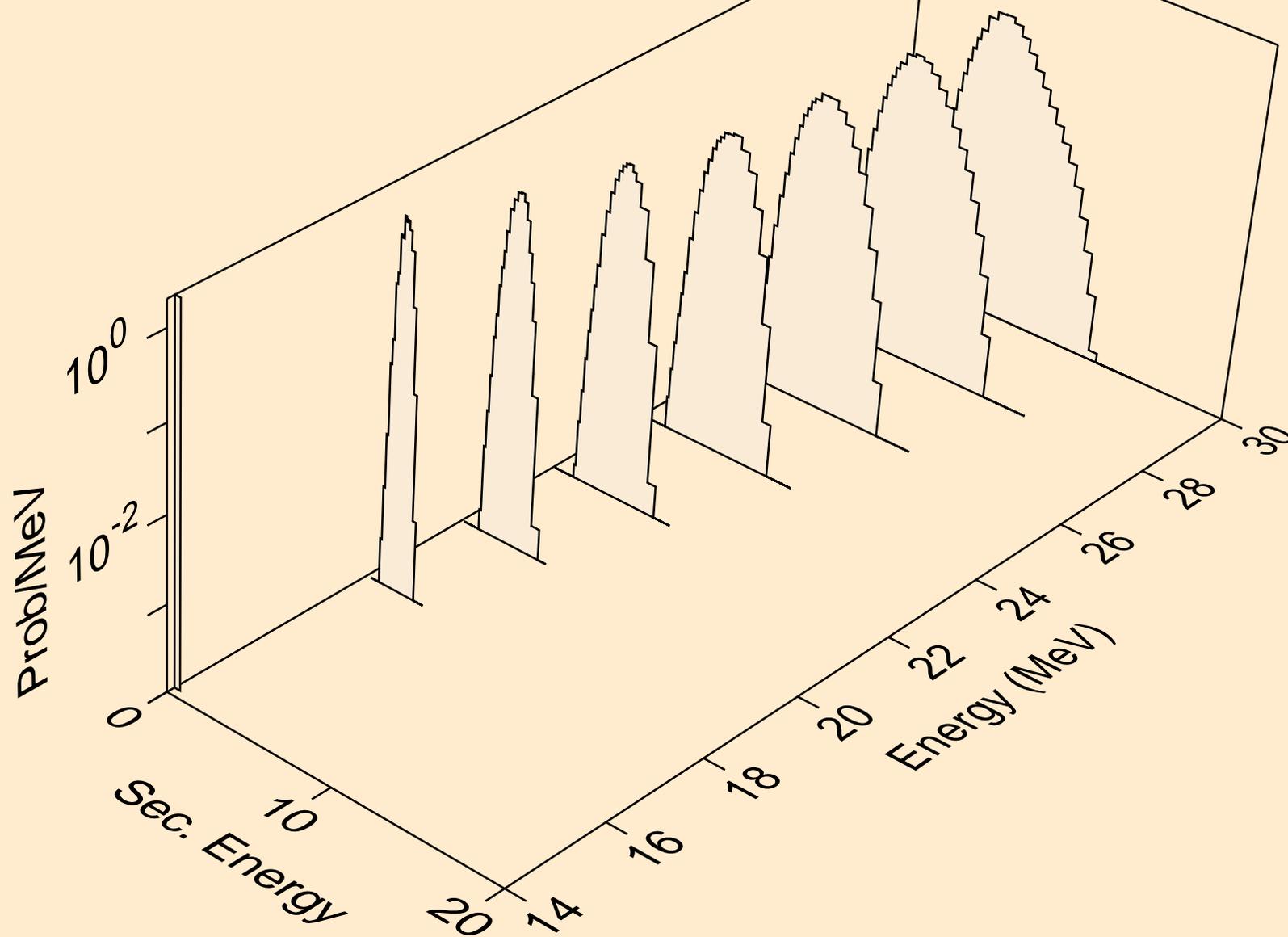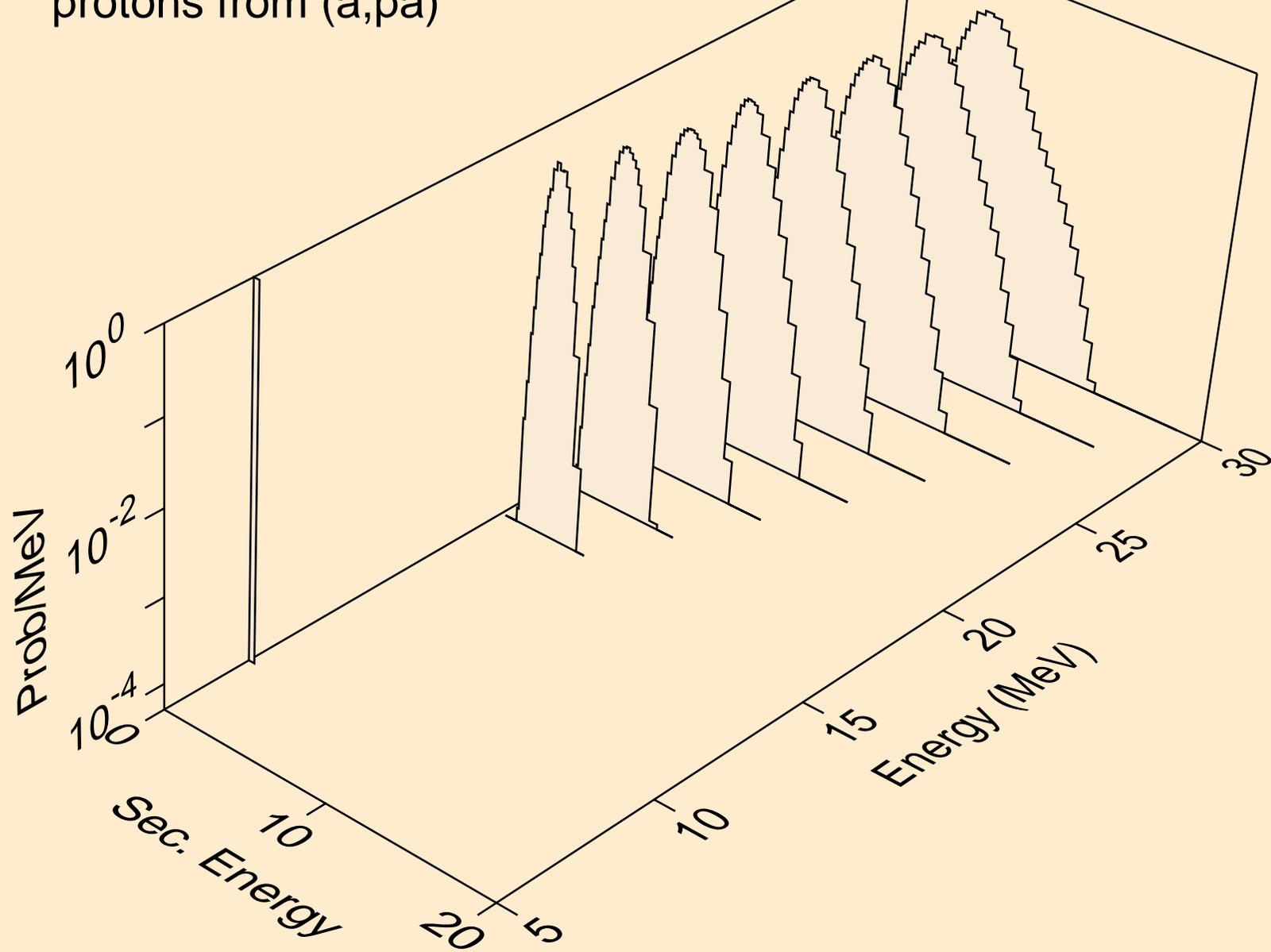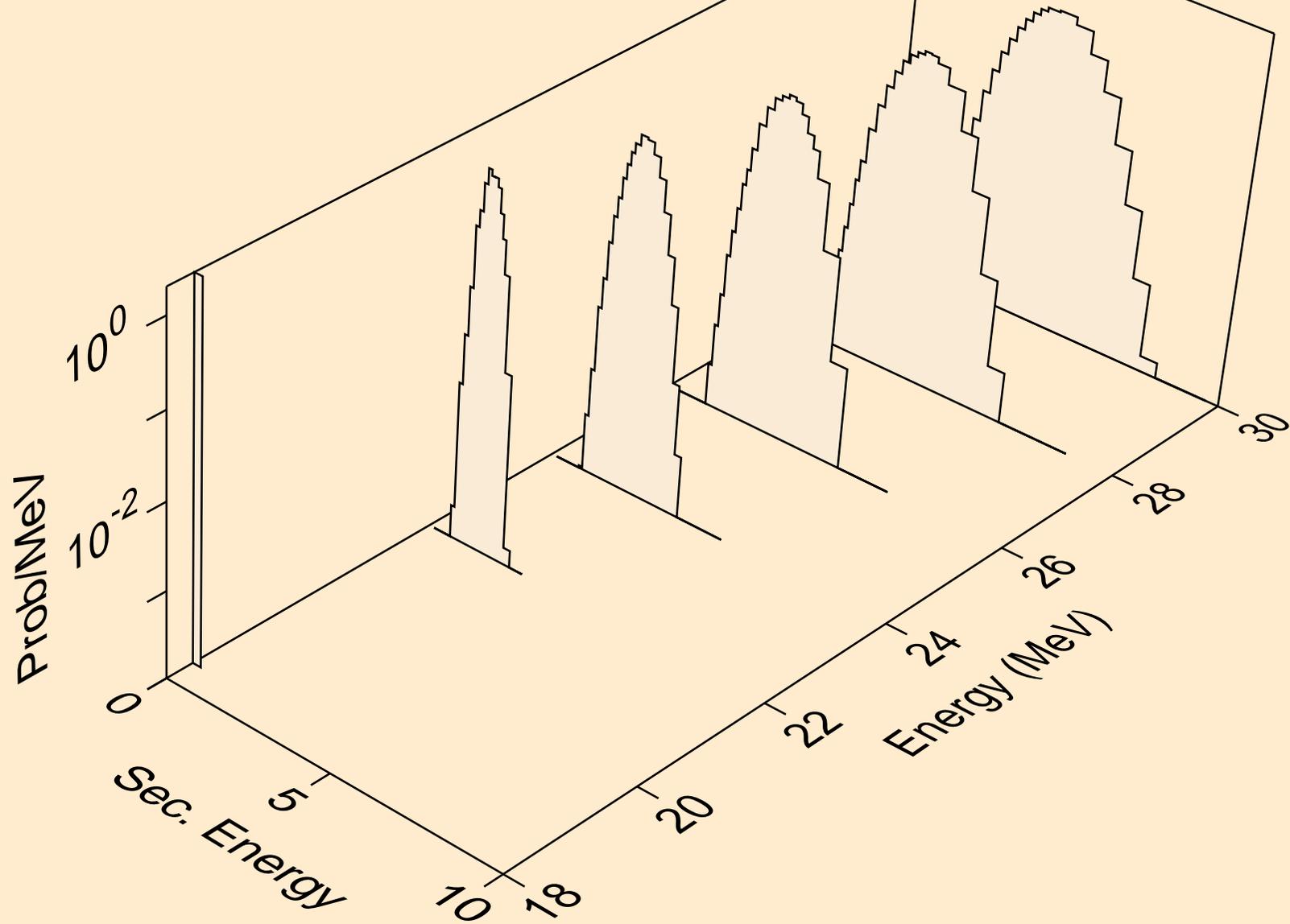
20

14

16

18

20
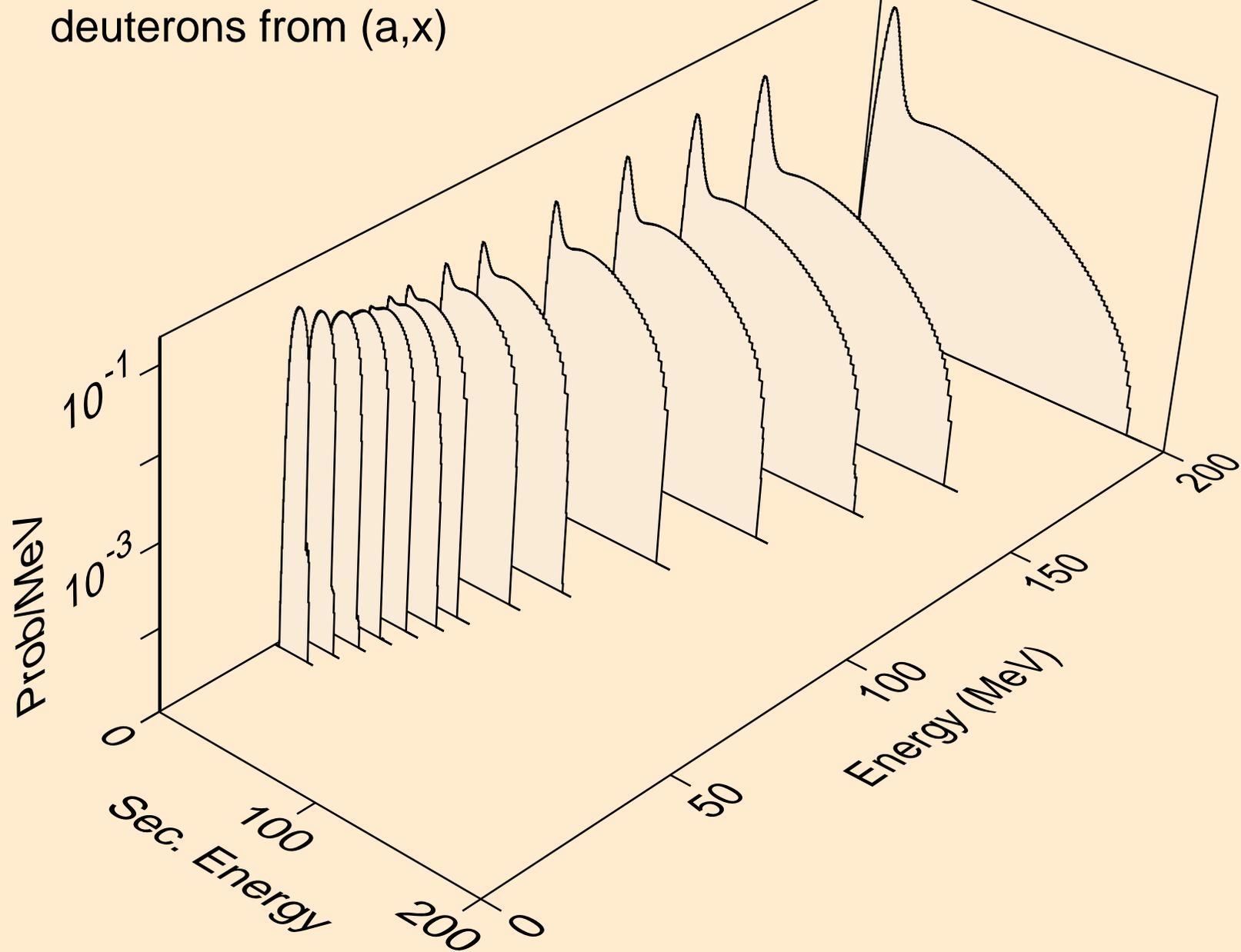
22

24

26

28

30

Energy (MeV)

TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
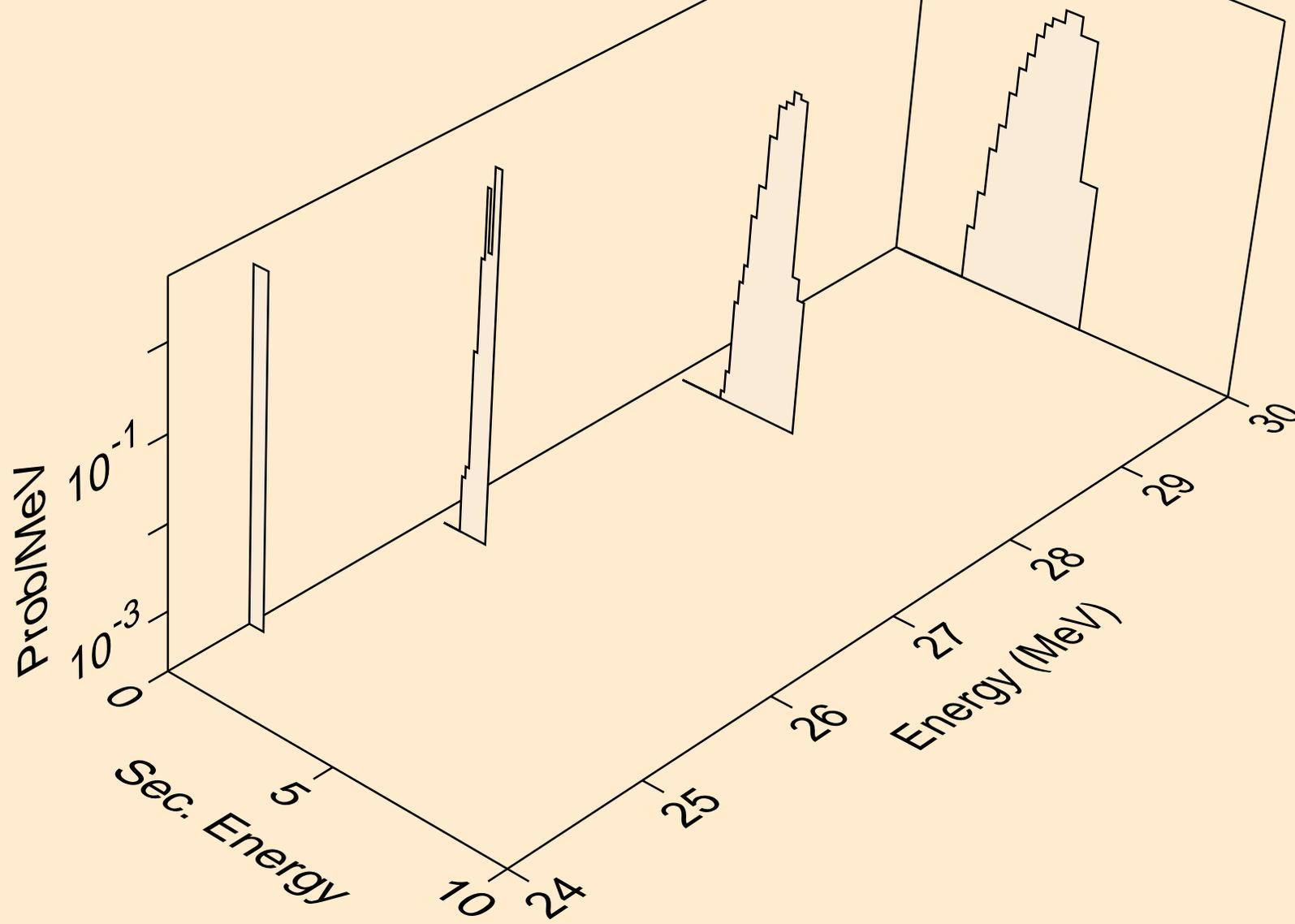protons from (a,pa)

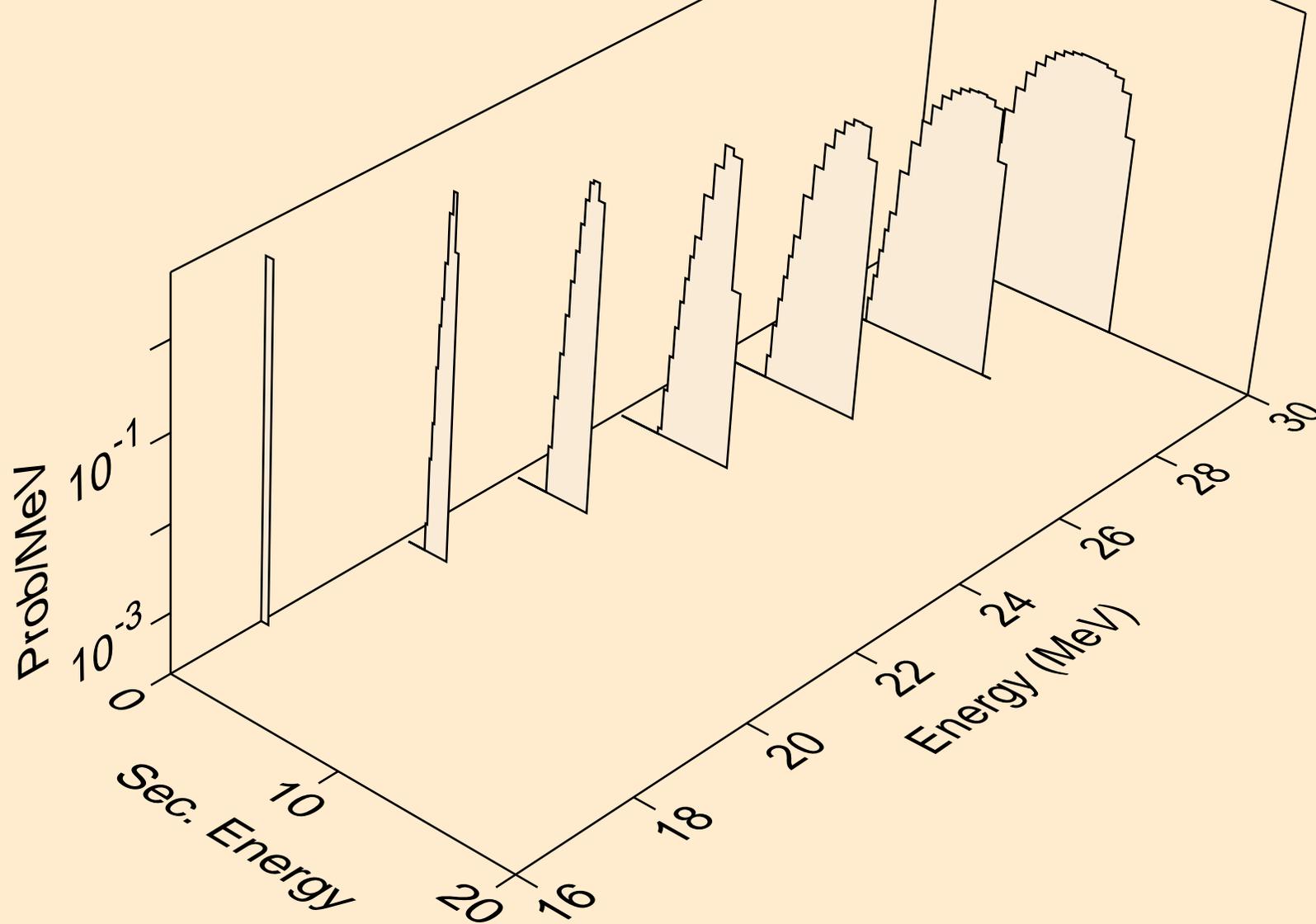TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
protons from (a,pd)

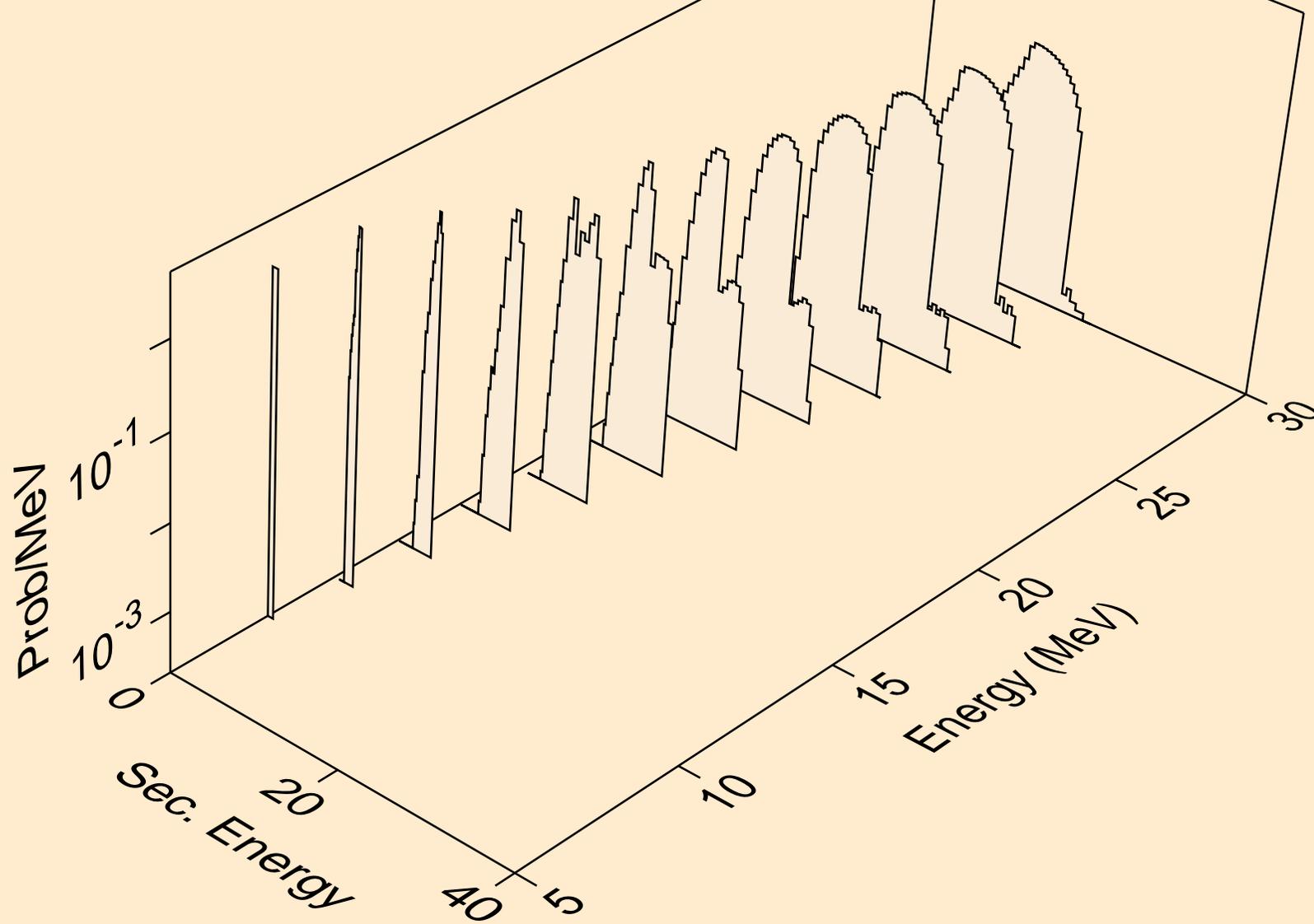TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
deuterons from (a,x)

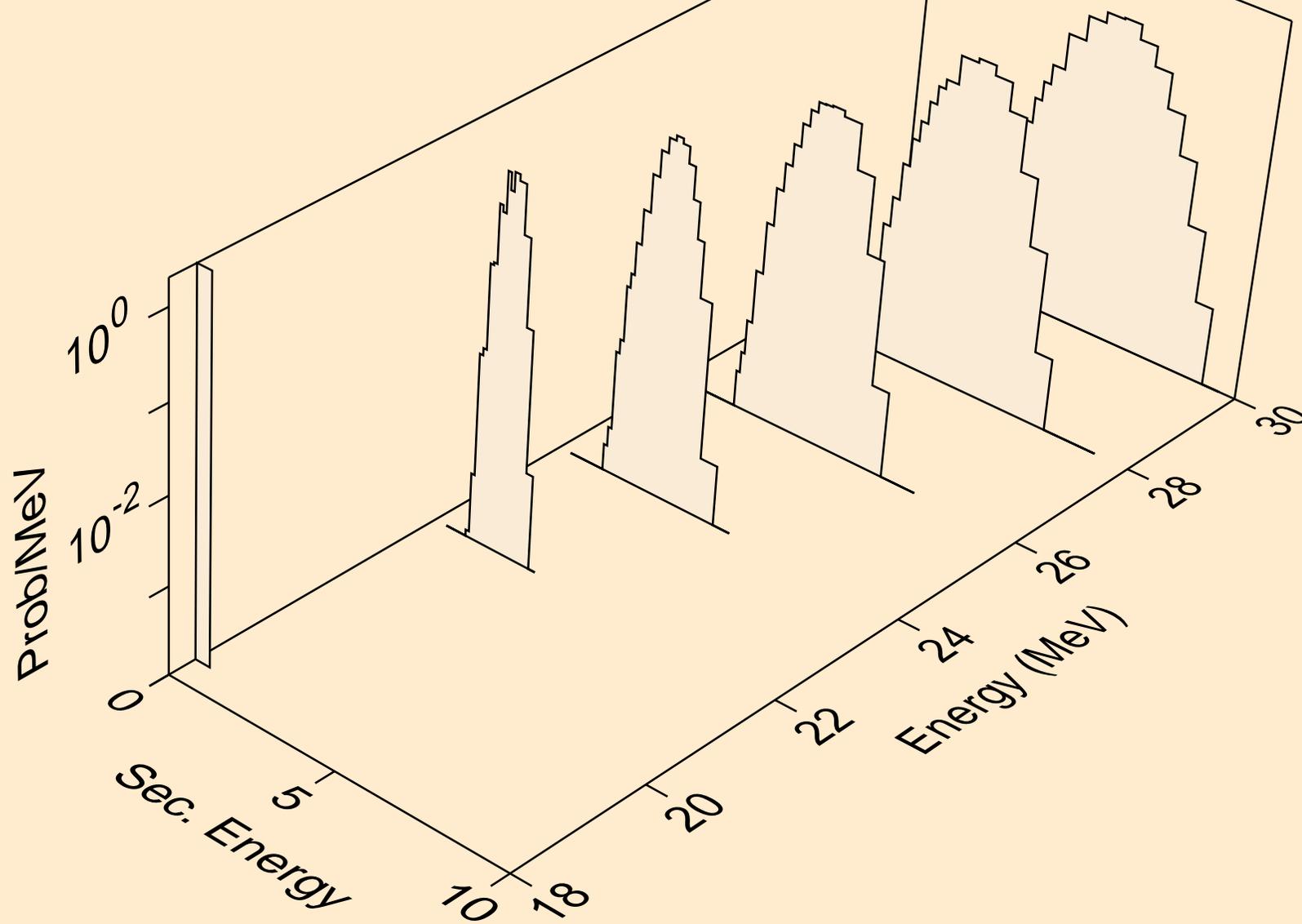TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
deuterons from (a,2nd)

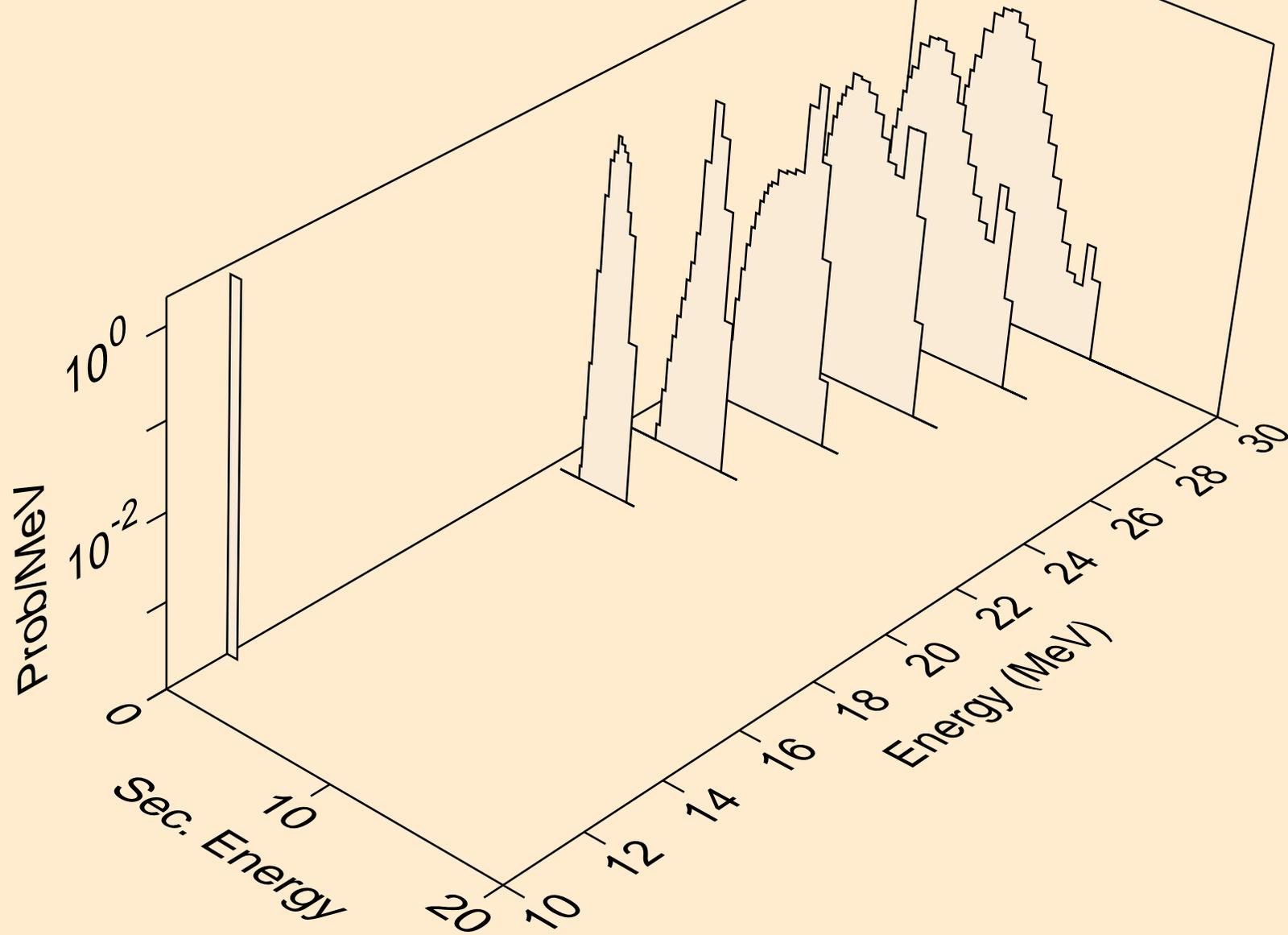TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
deuterons from (a,n*)d

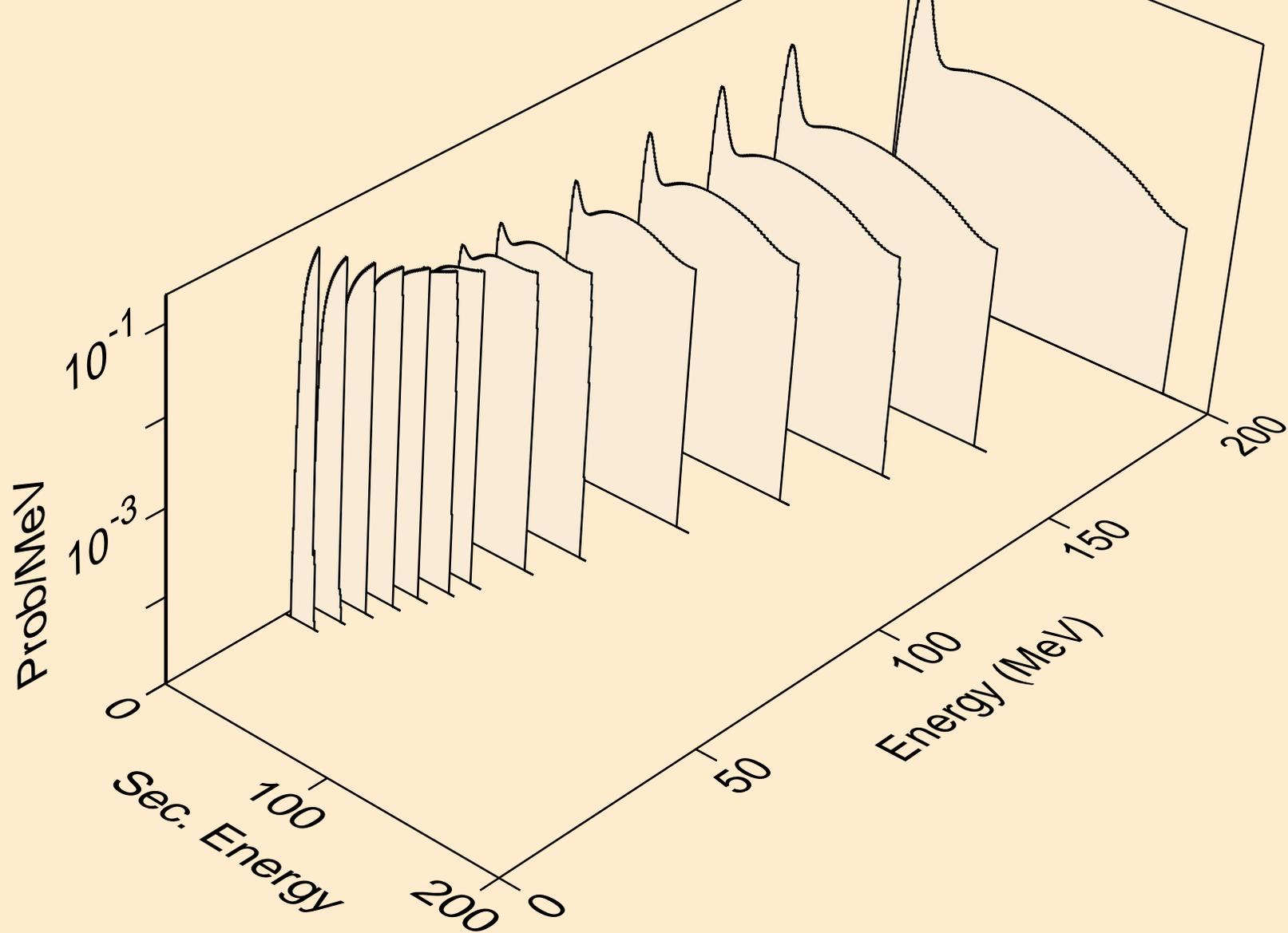TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
deuterons from (a,d)

TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
deuterons from (a,pd)

Prob/MeV

10^0

10^{-2}

0

Sec. Energy

5

10

18

20

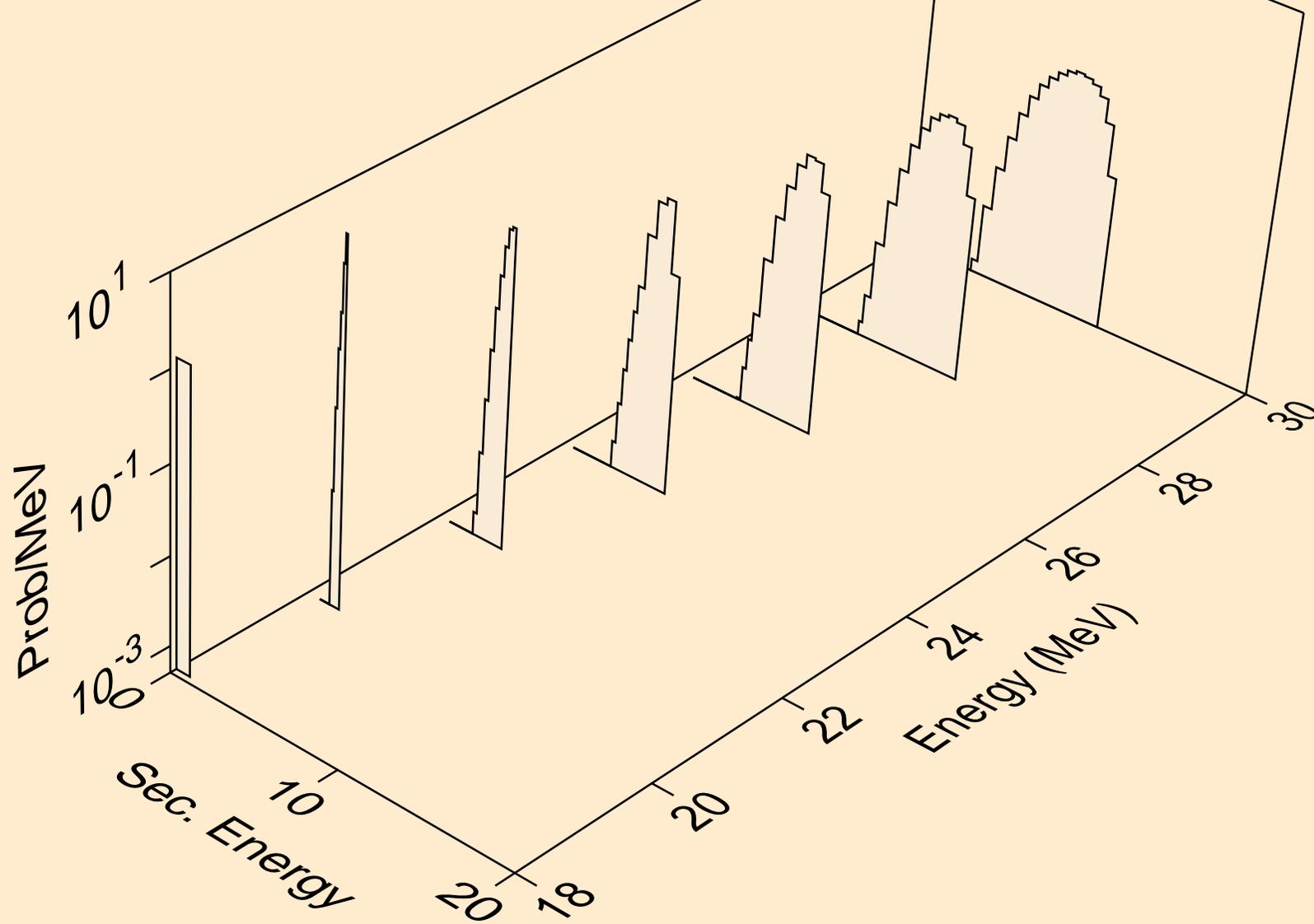22

24

26

28

30

Energy (MeV)

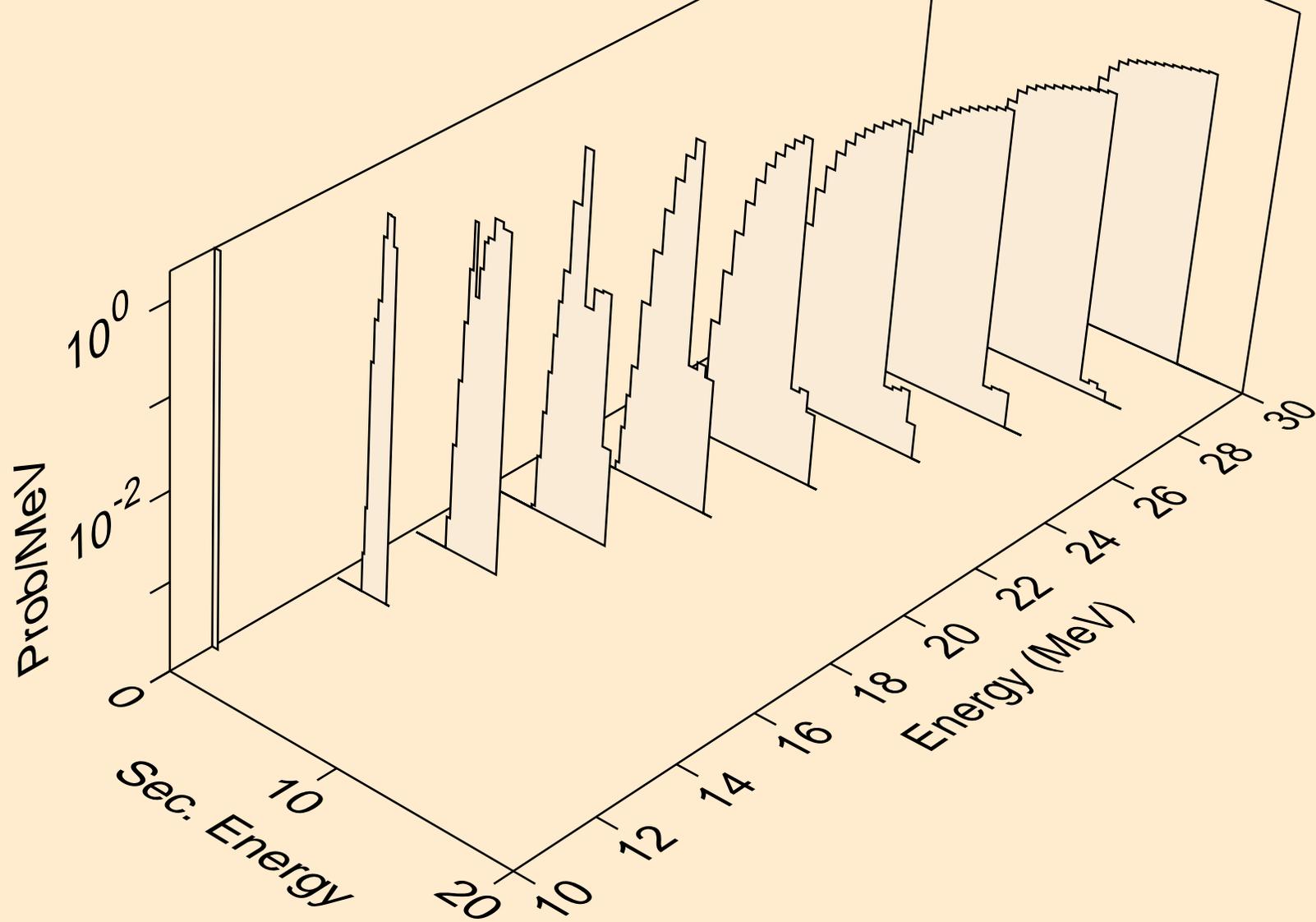TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
deuterons from (a,da)

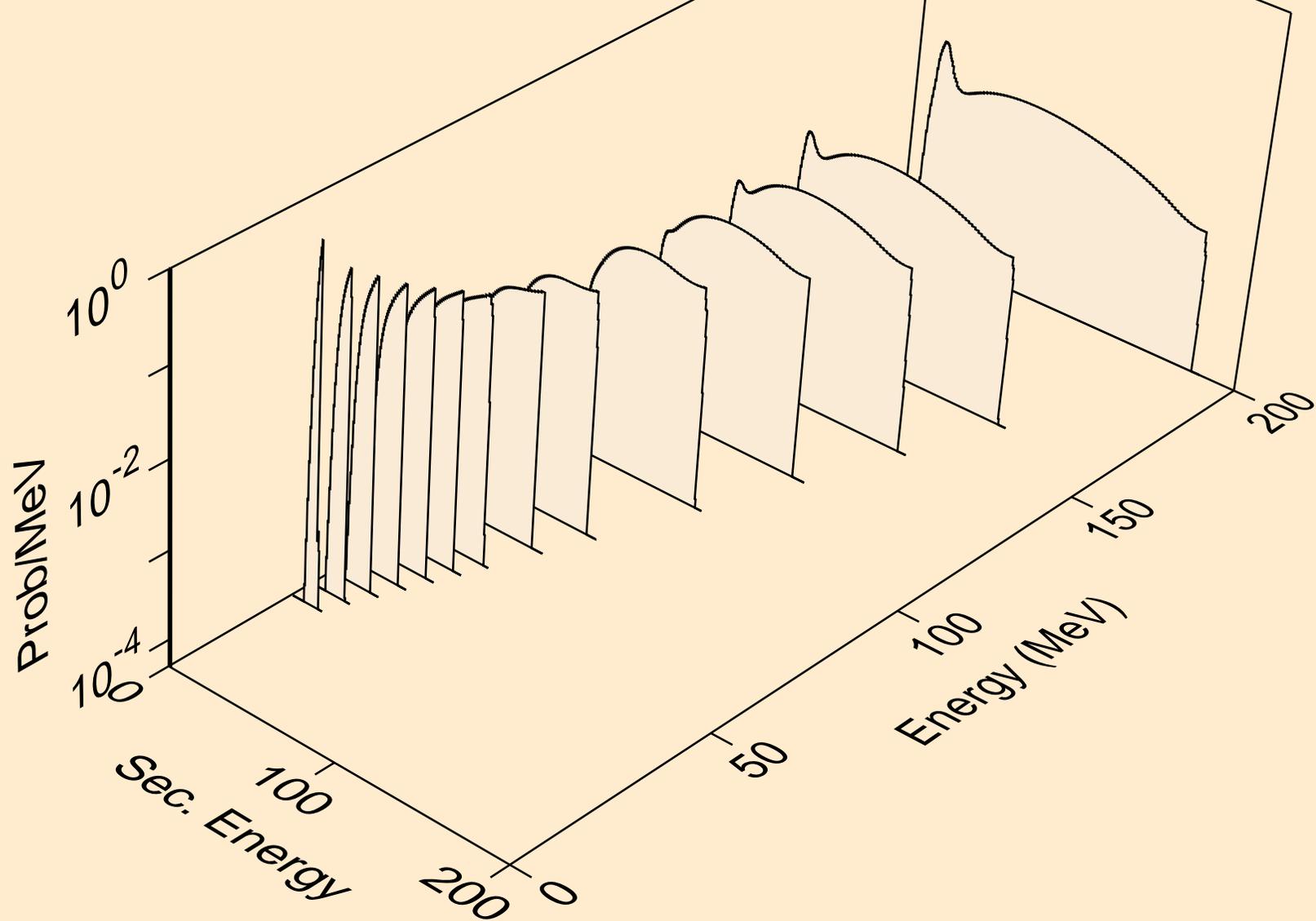TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
tritons from (a,x)

TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
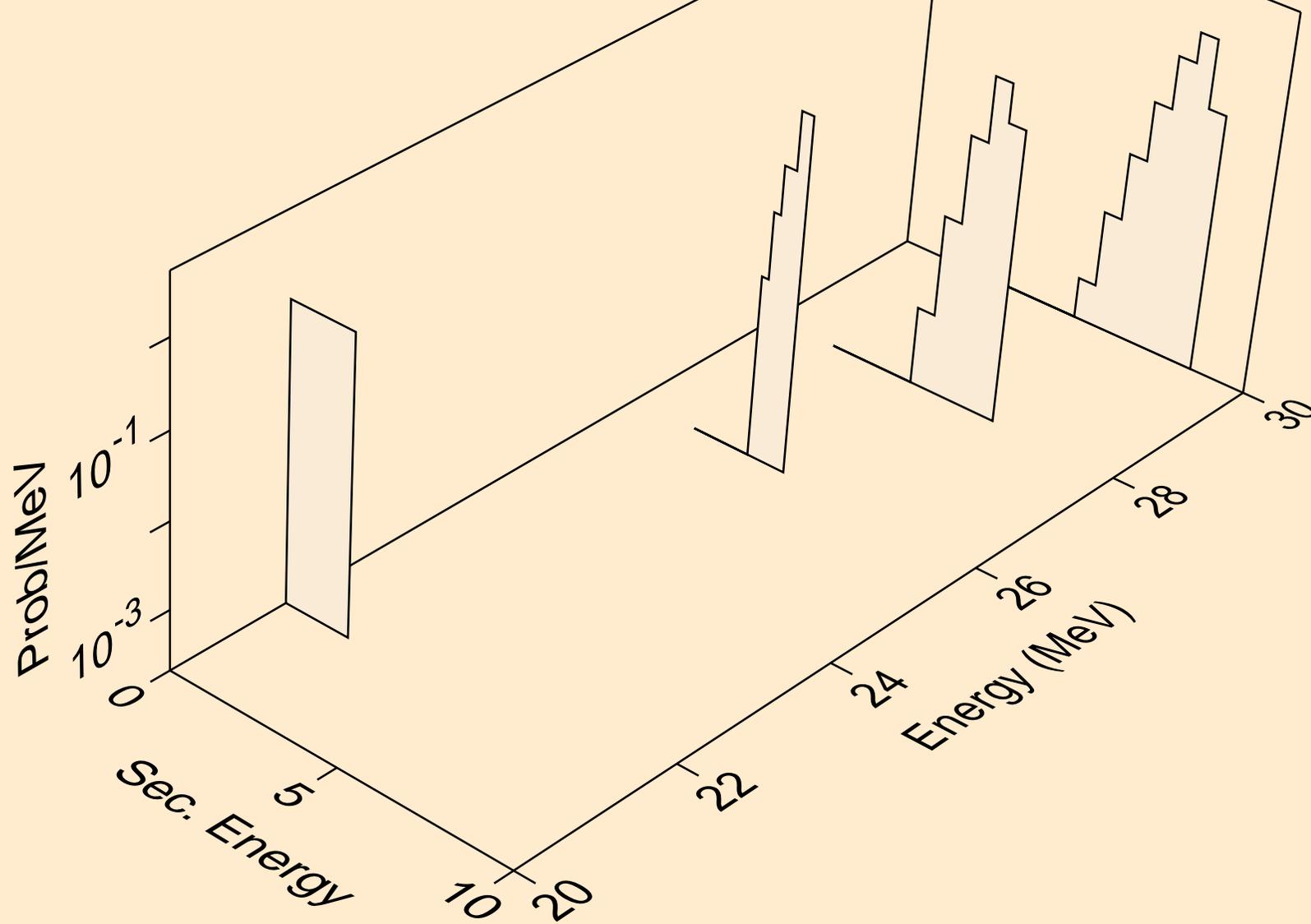tritons from (a,n*)t

TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
tritons from (a,t)

TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
he3s from (a,x)

TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
he3s from (a,n*)he3

TC100 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
he3s from (a,he3)