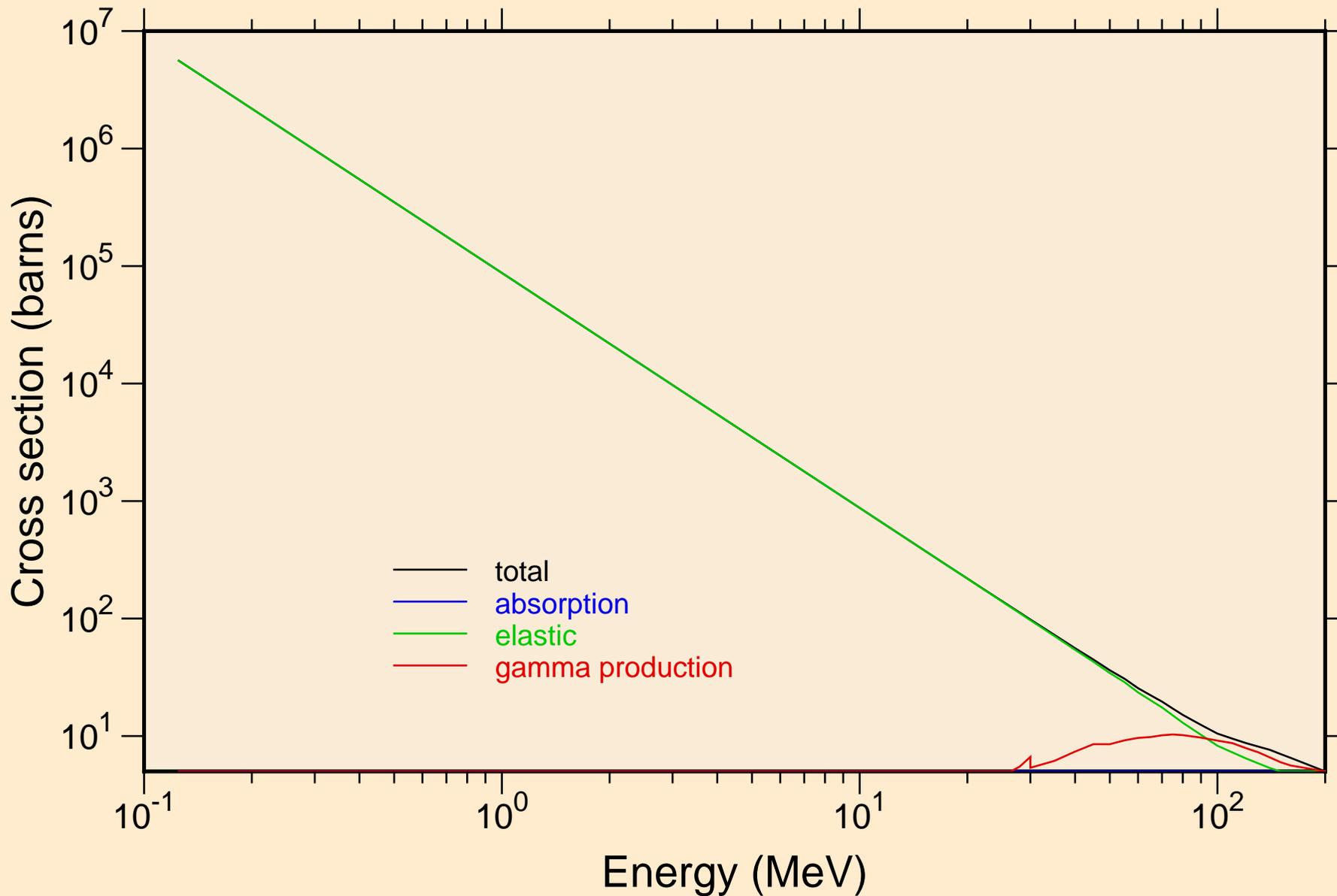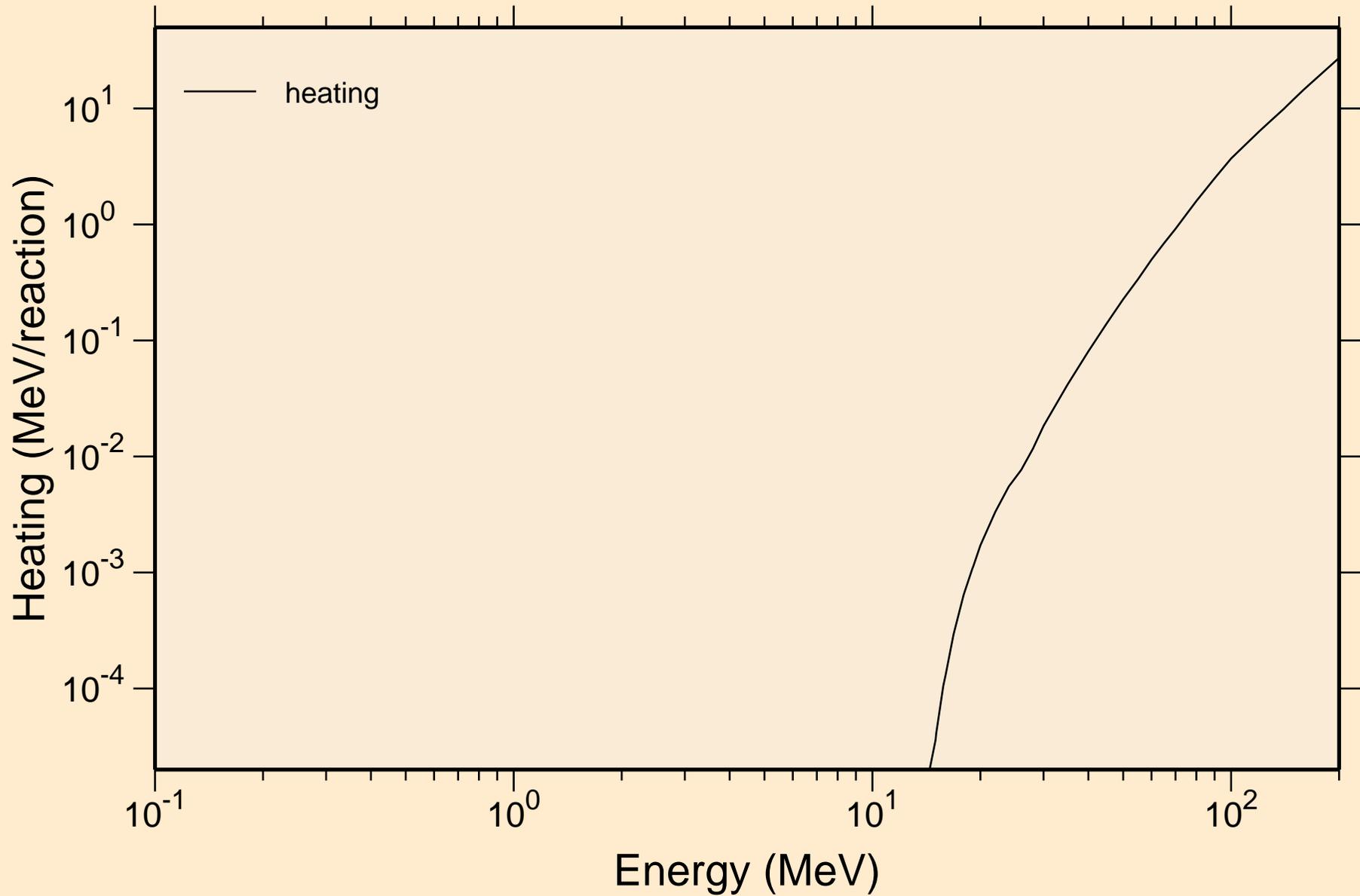CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Principal cross sections
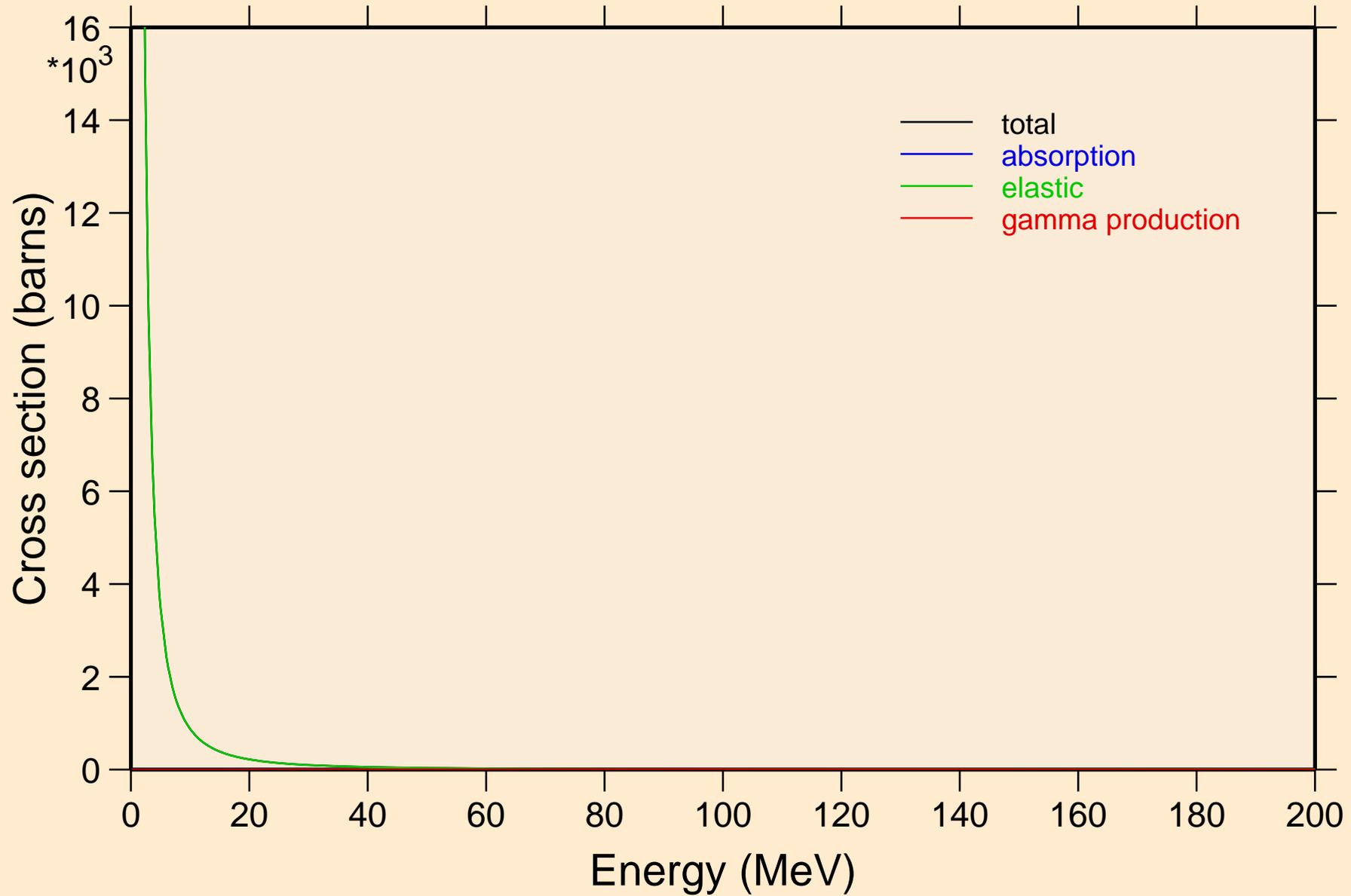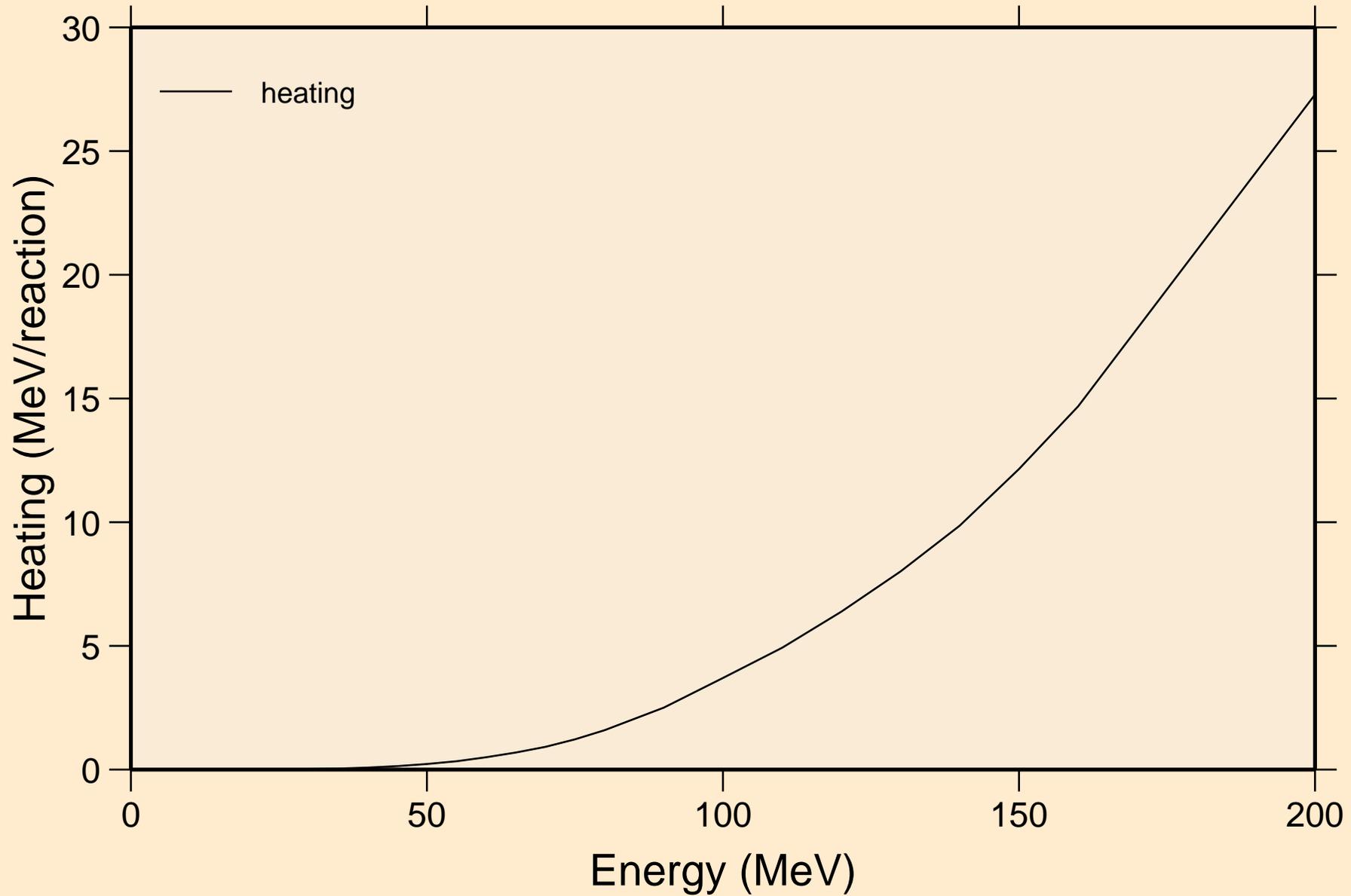
CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Heating

heating

Heating (MeV/reaction)

Energy (MeV)

CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Principal cross sections

Cross section (barns)

$*10^3$

- total
- absorption
- elastic
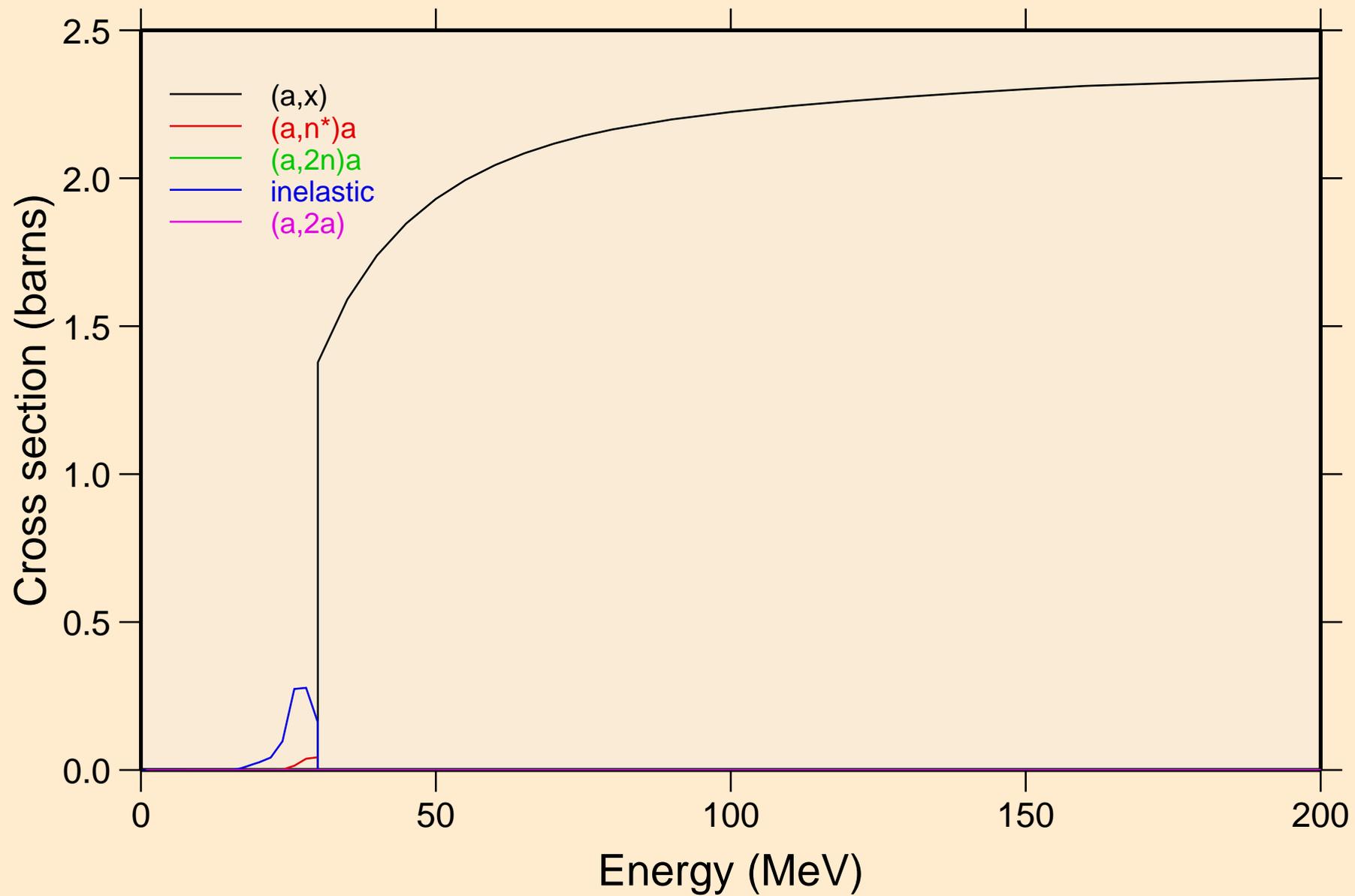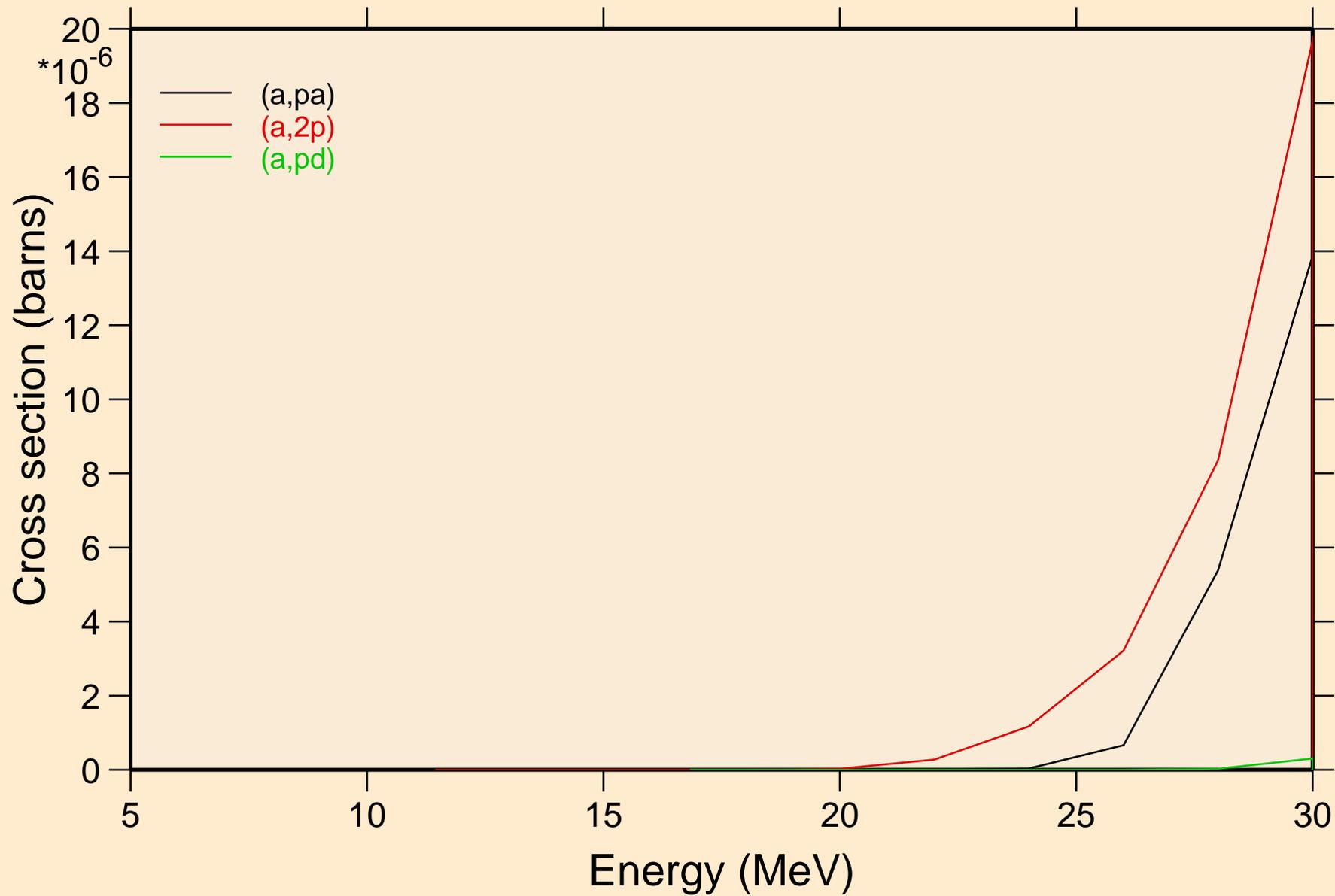- gamma production

Energy (MeV)

CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Heating

CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions
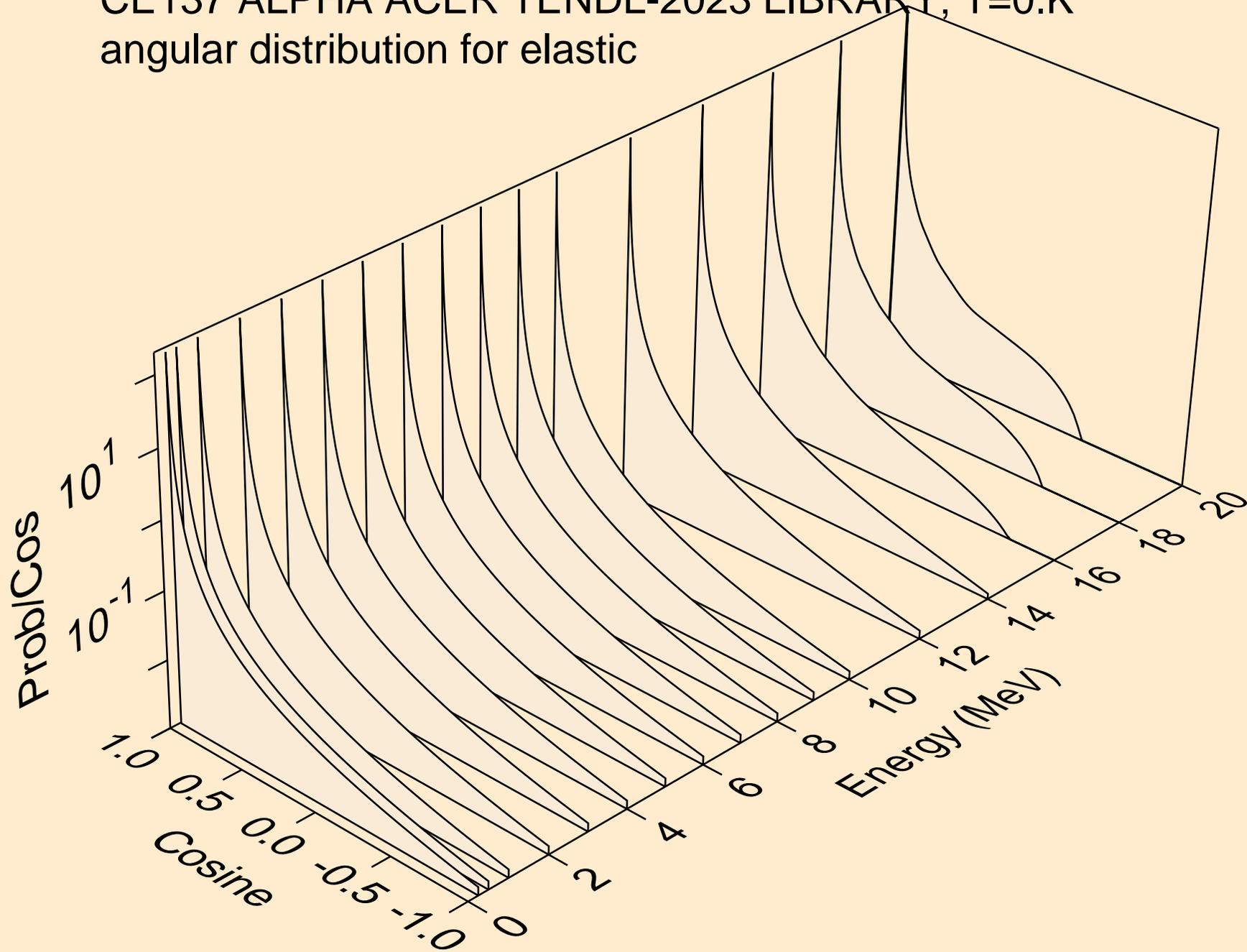
(a,x)
(a,n*)a
(a,2n)a
inelastic
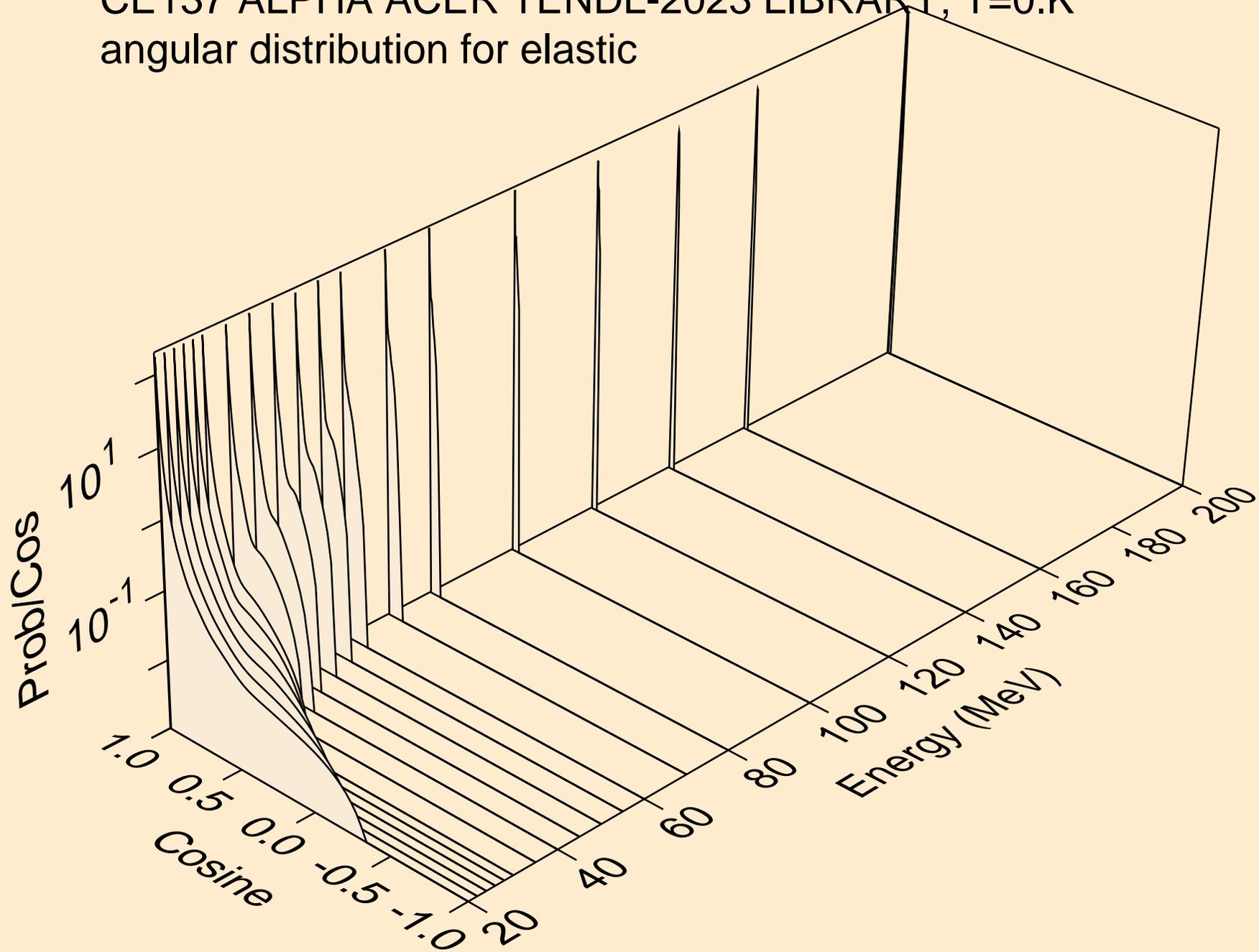(a,2a)

Cross section (barns)

Energy (MeV)

CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions

CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
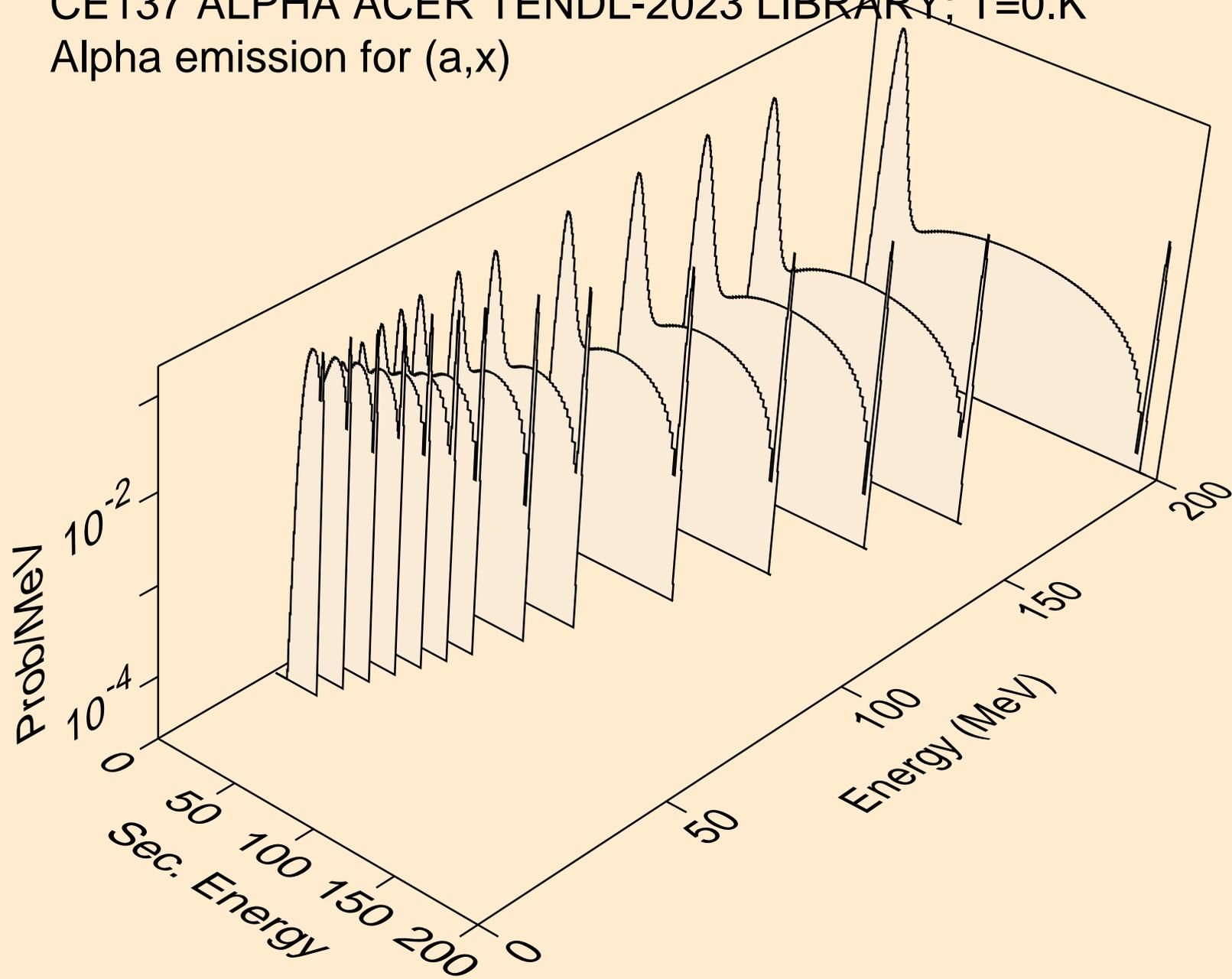angular distribution for elastic

CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
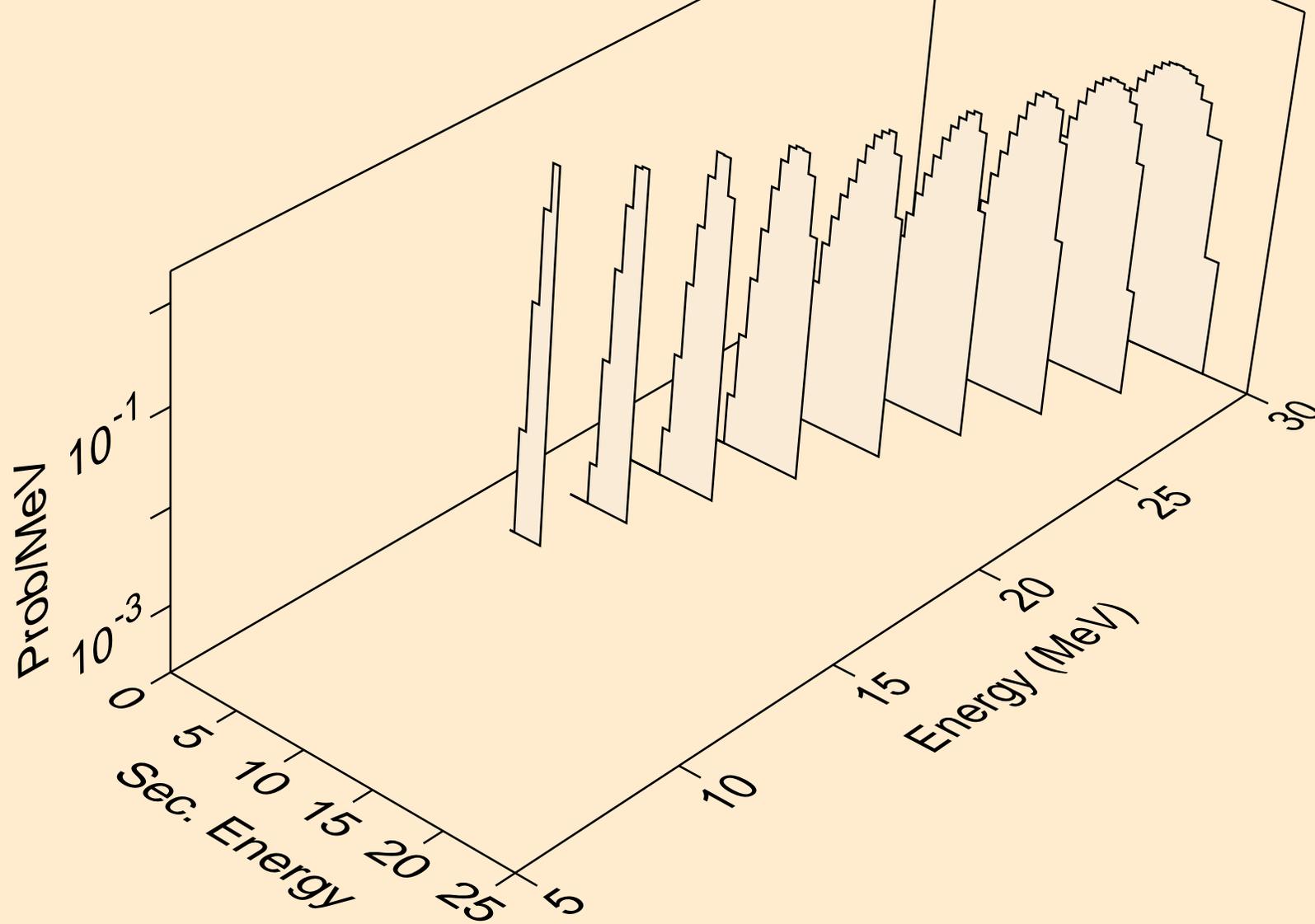angular distribution for elastic

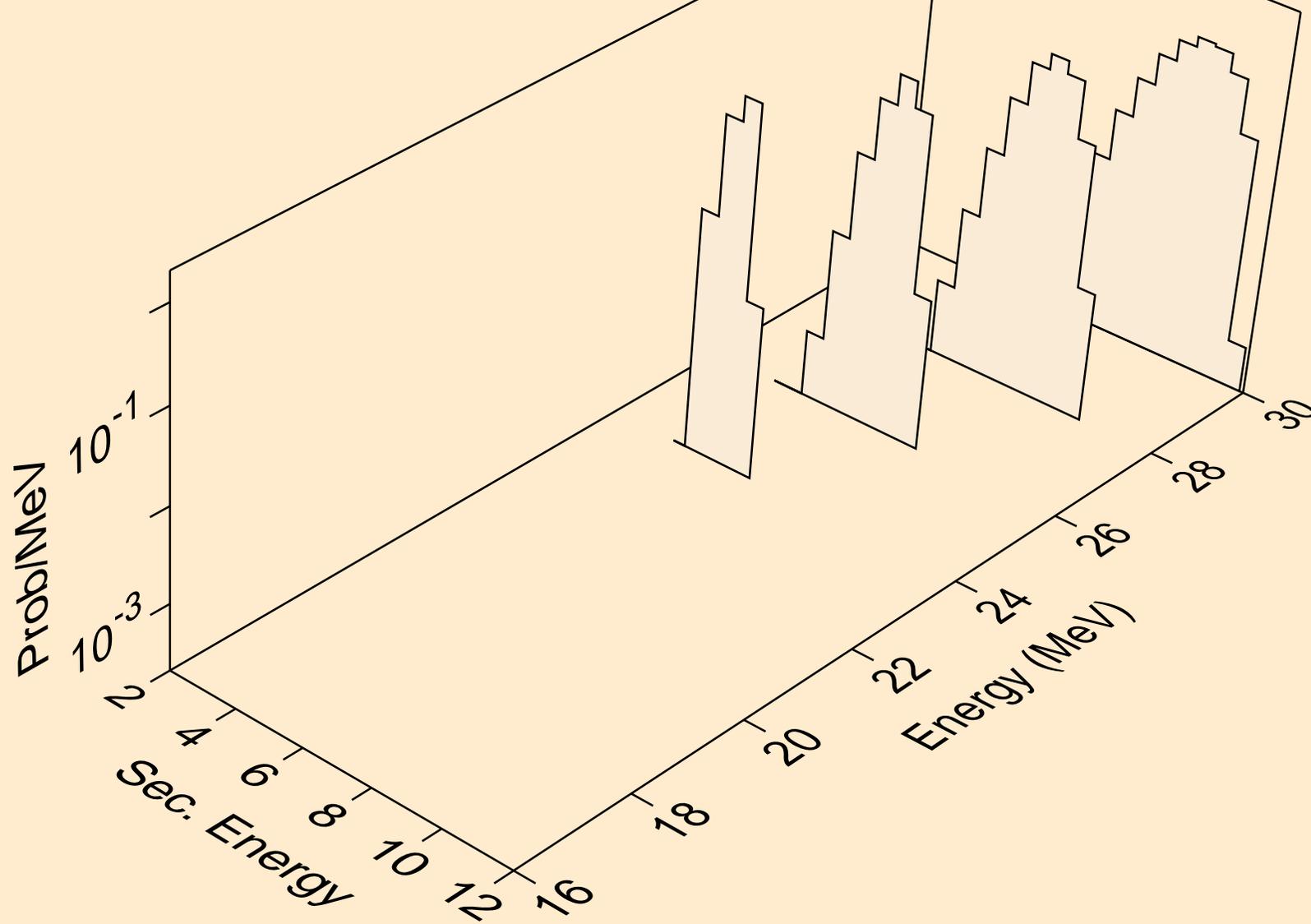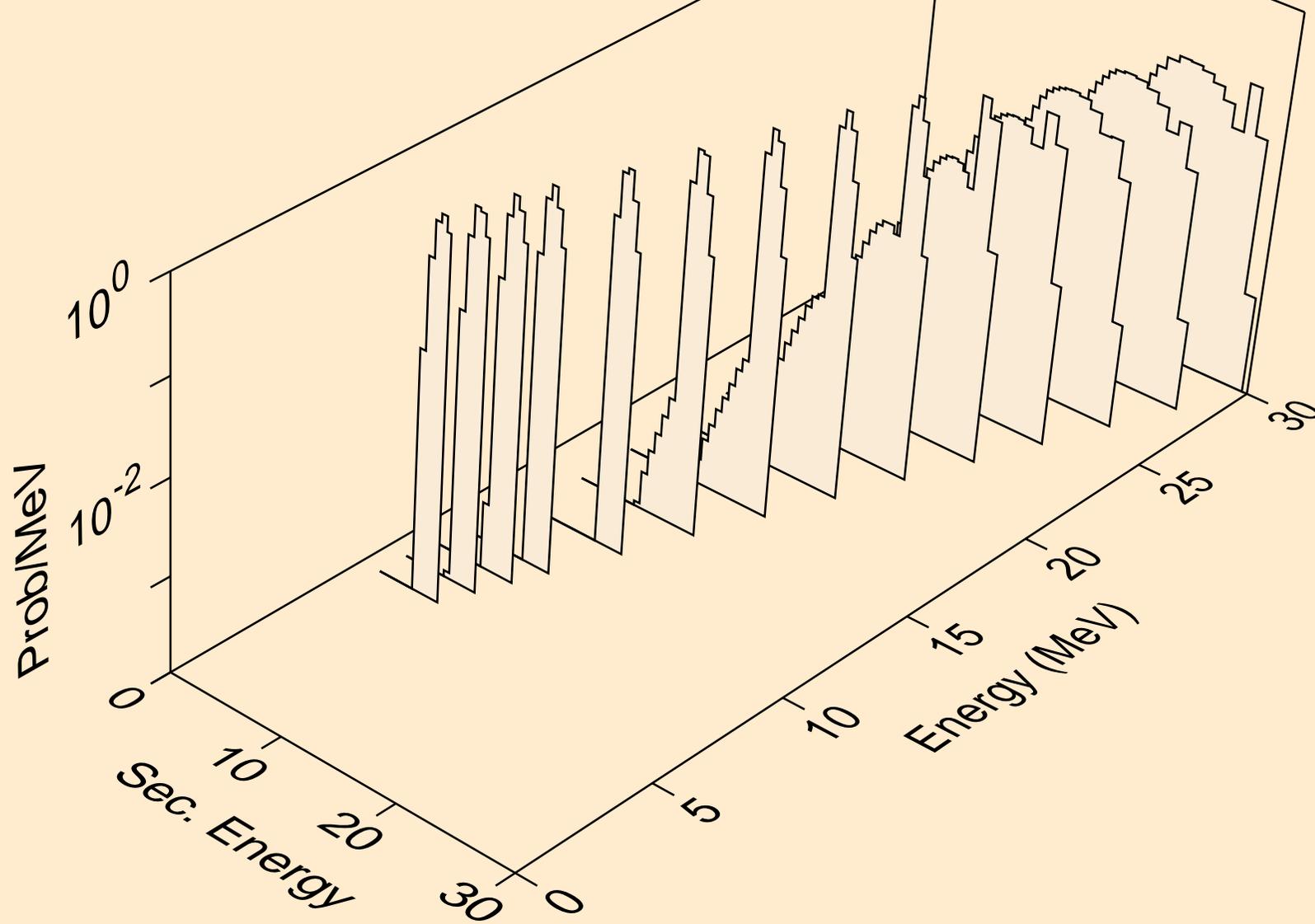CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Alpha emission for (a,x)

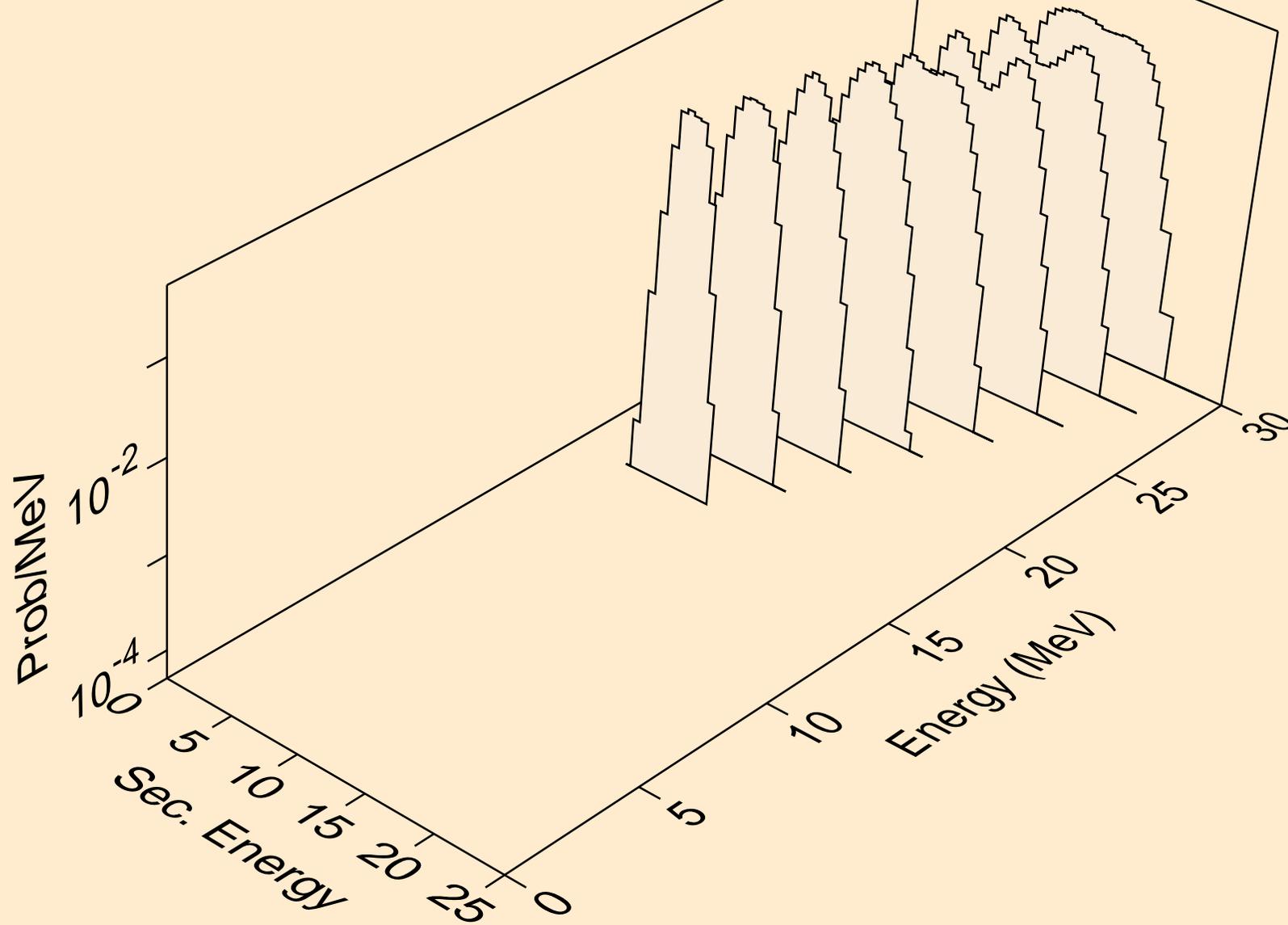CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Alpha emission for (a,n*)a

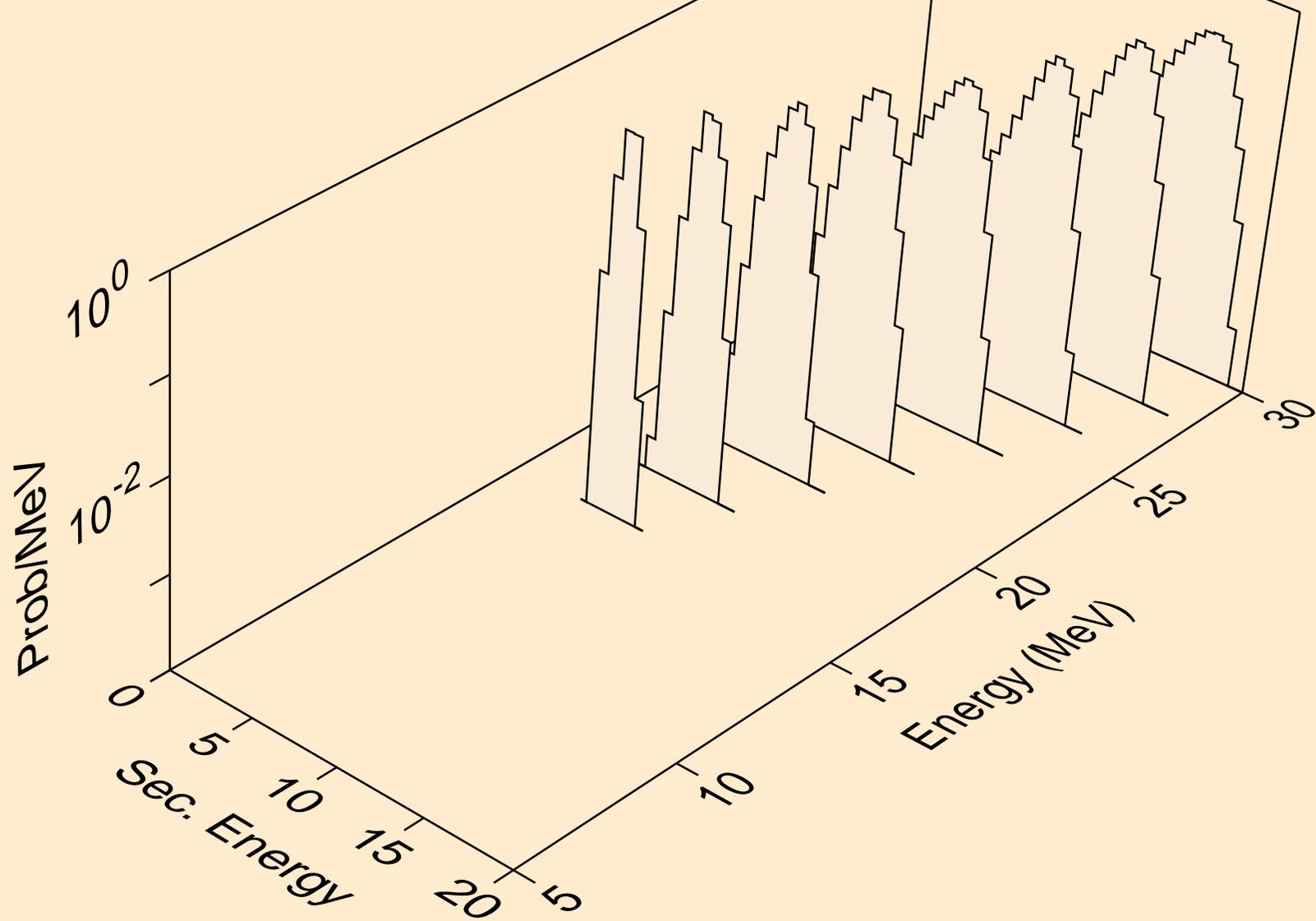CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Alpha emission for (a,2n)a

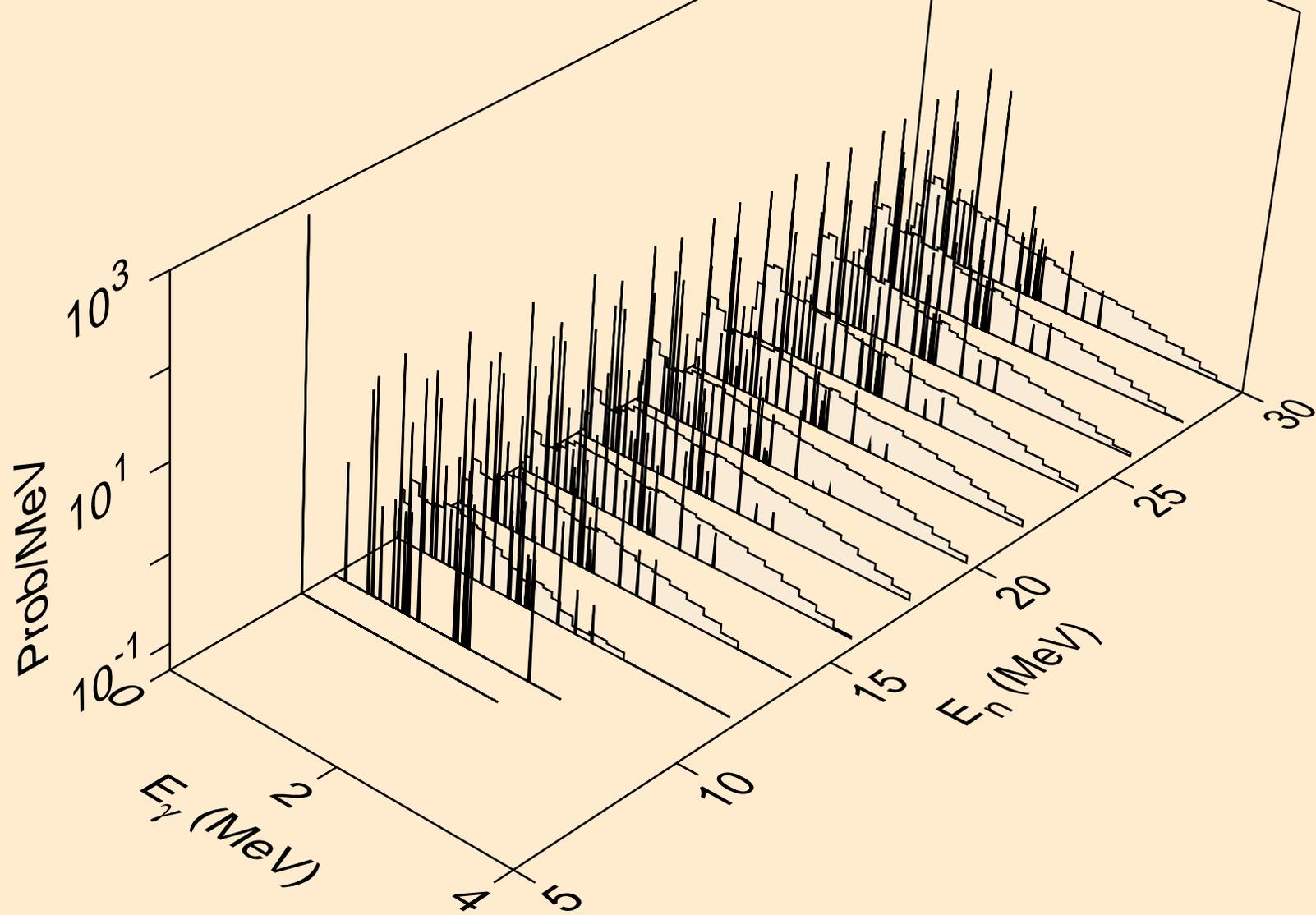CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Alpha emission for inelastic

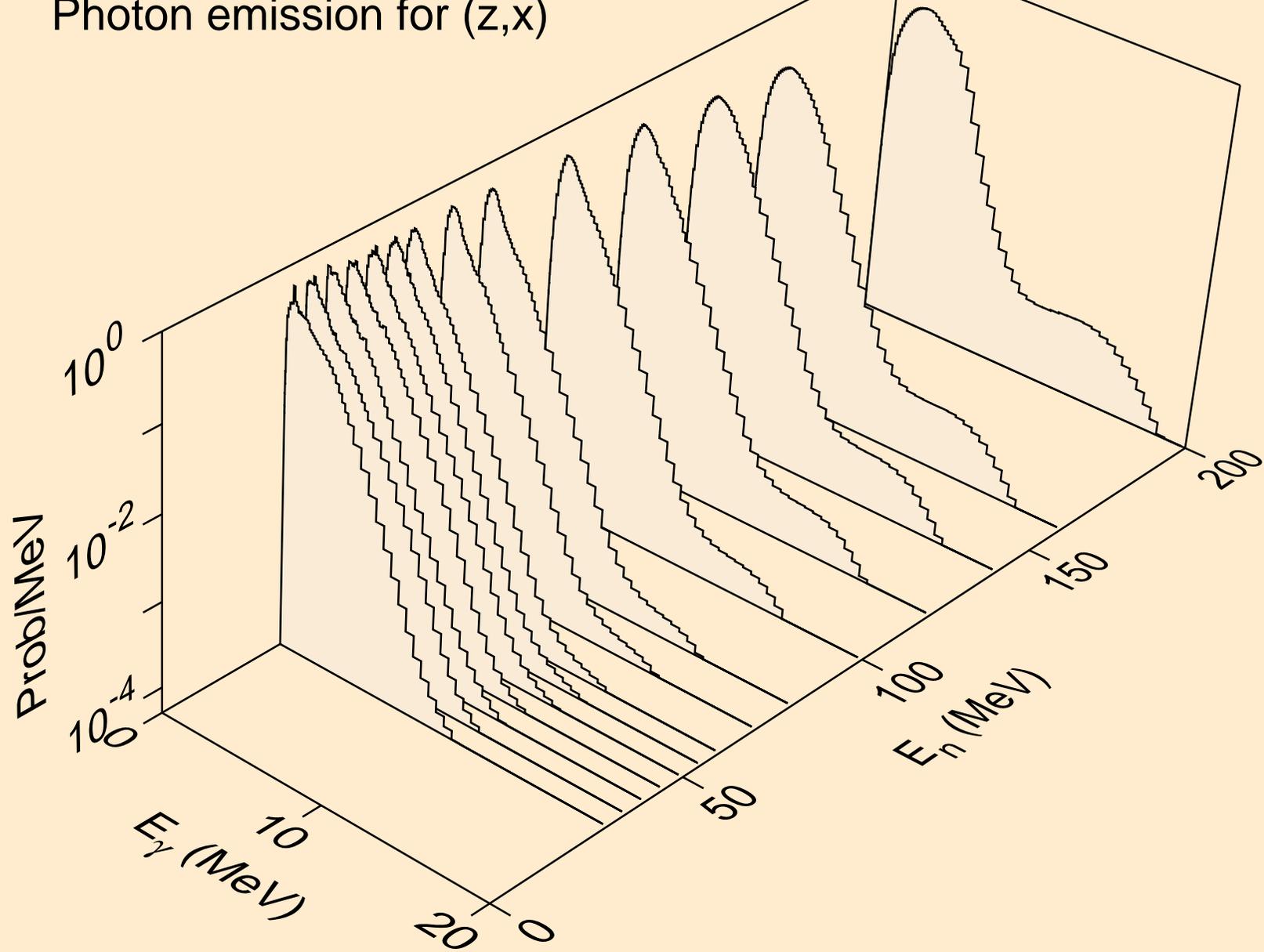CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Alpha emission for (a,2a)

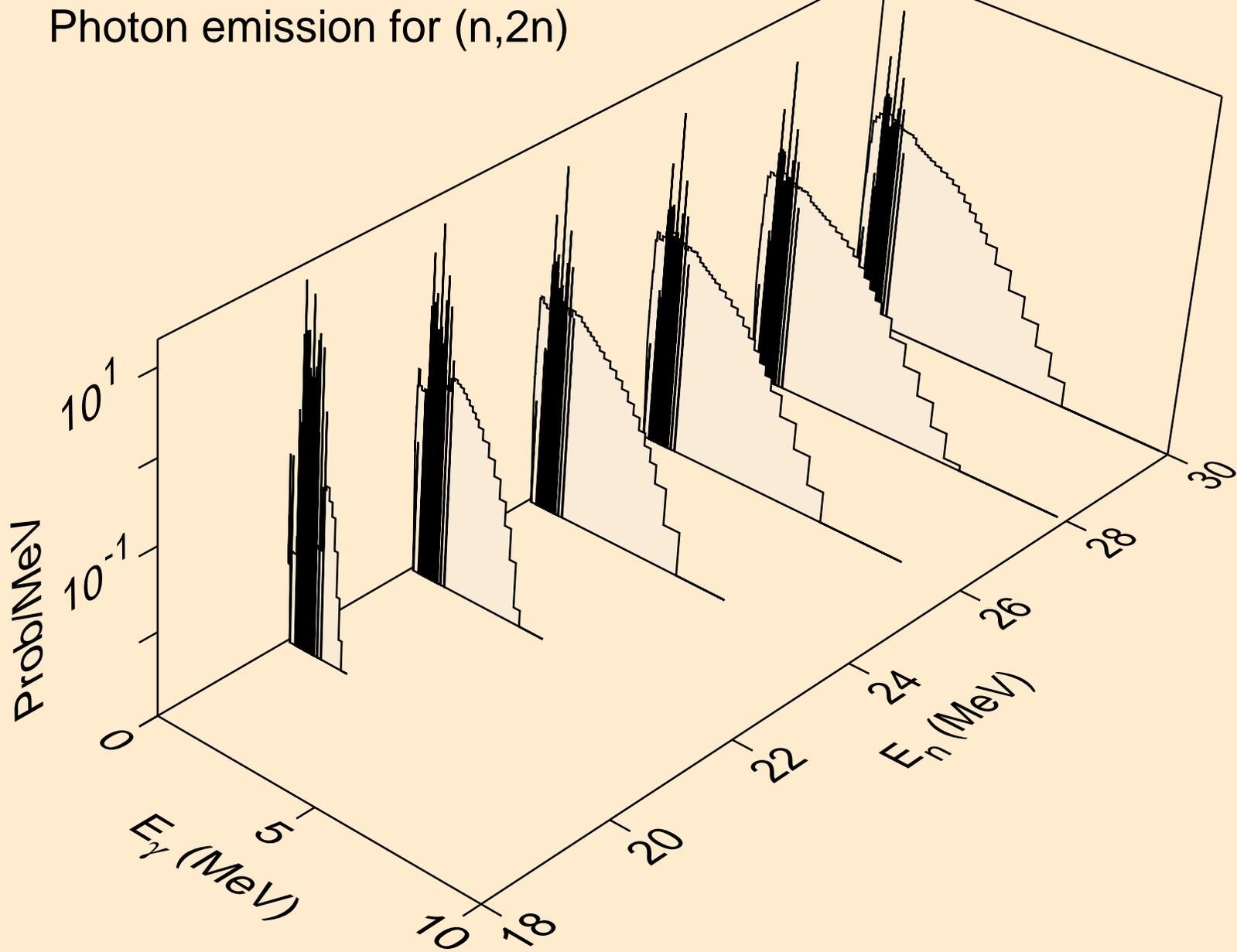CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Alpha emission for (a,pa)

CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
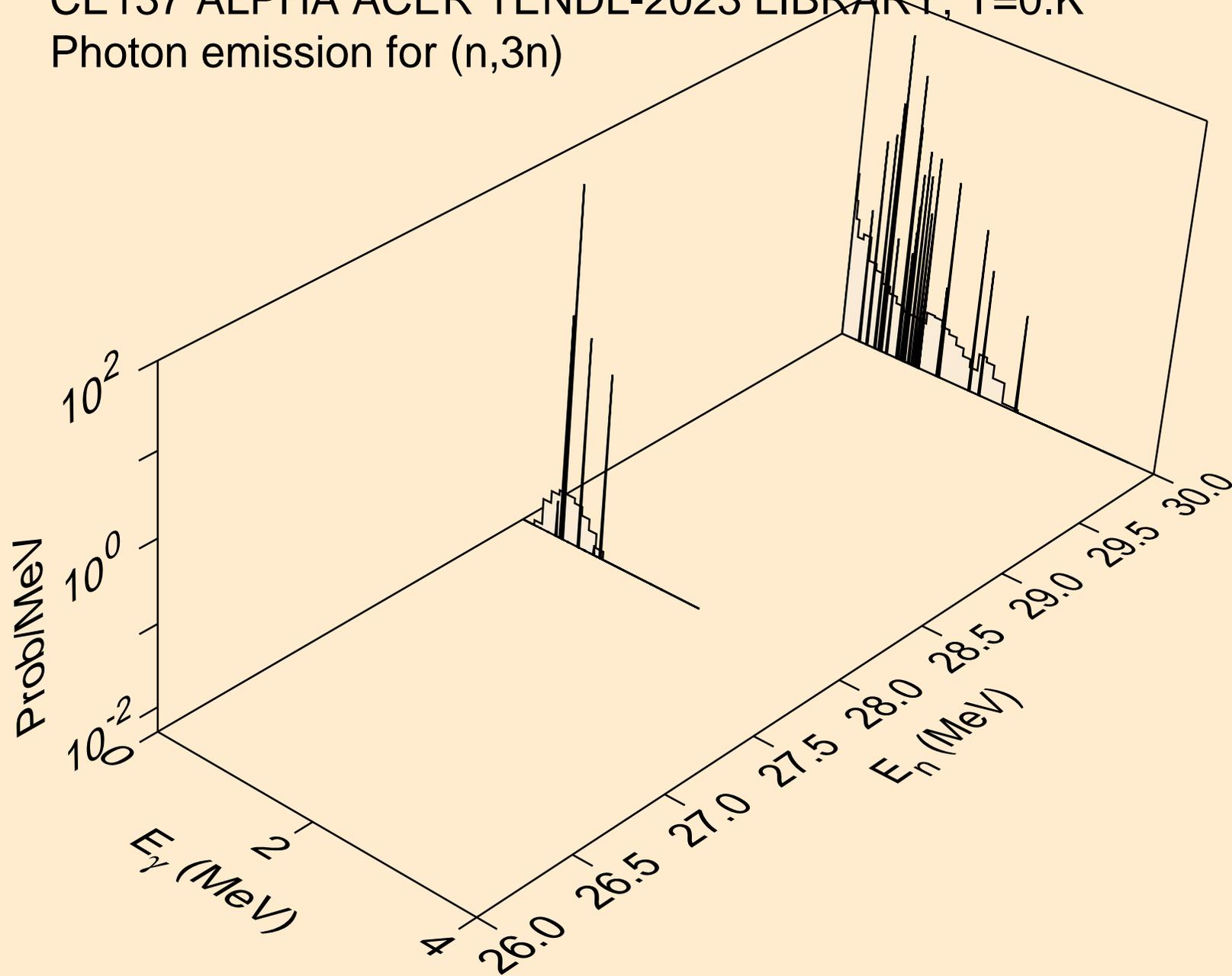Photon emission for (z,n)

CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (z,x)

$Prob/MeV$

10^0

10^{-2}

10^{-4}

E_γ (MeV)

10

20

0

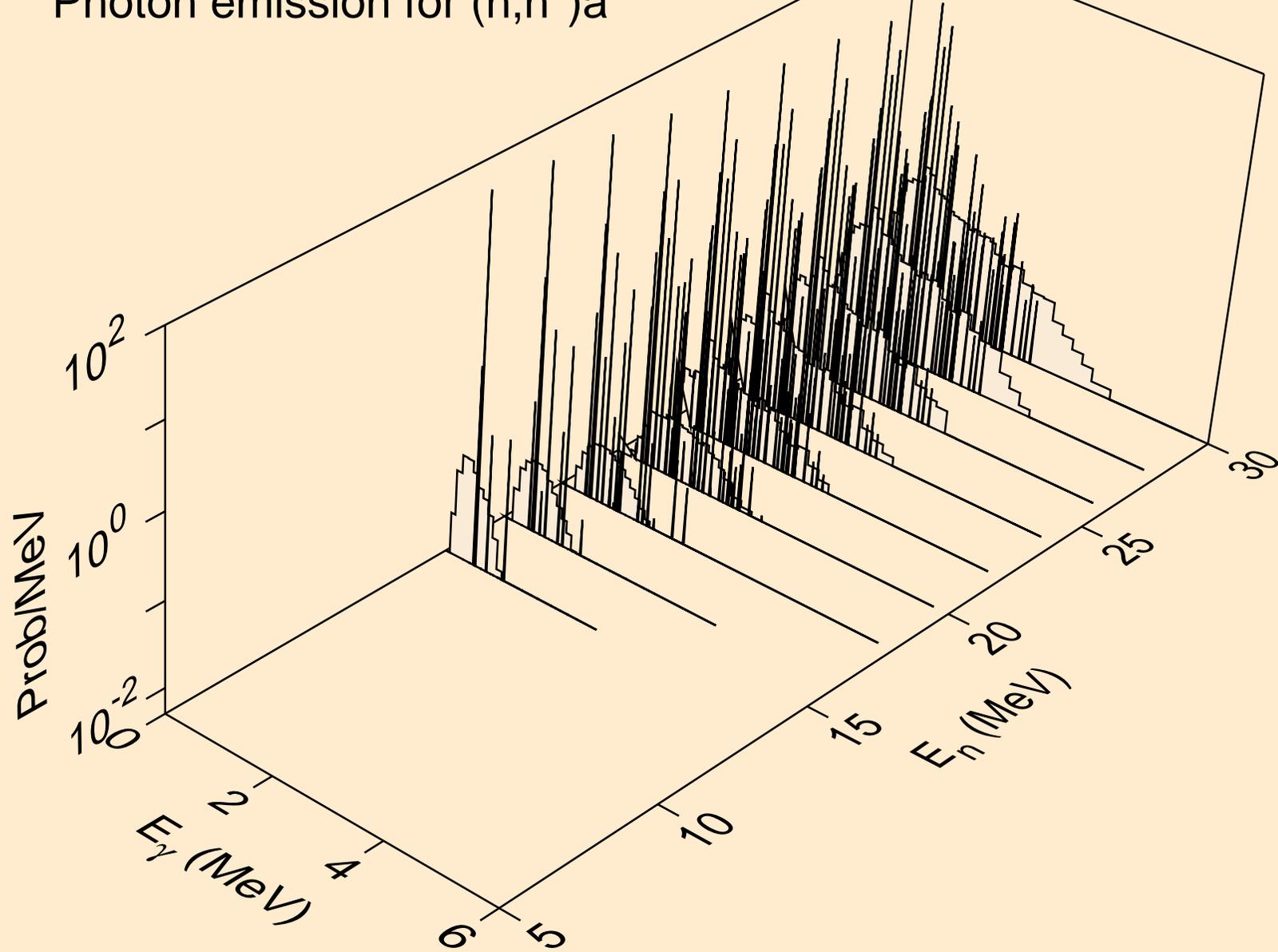50

100

150

200

E_n (MeV)

CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
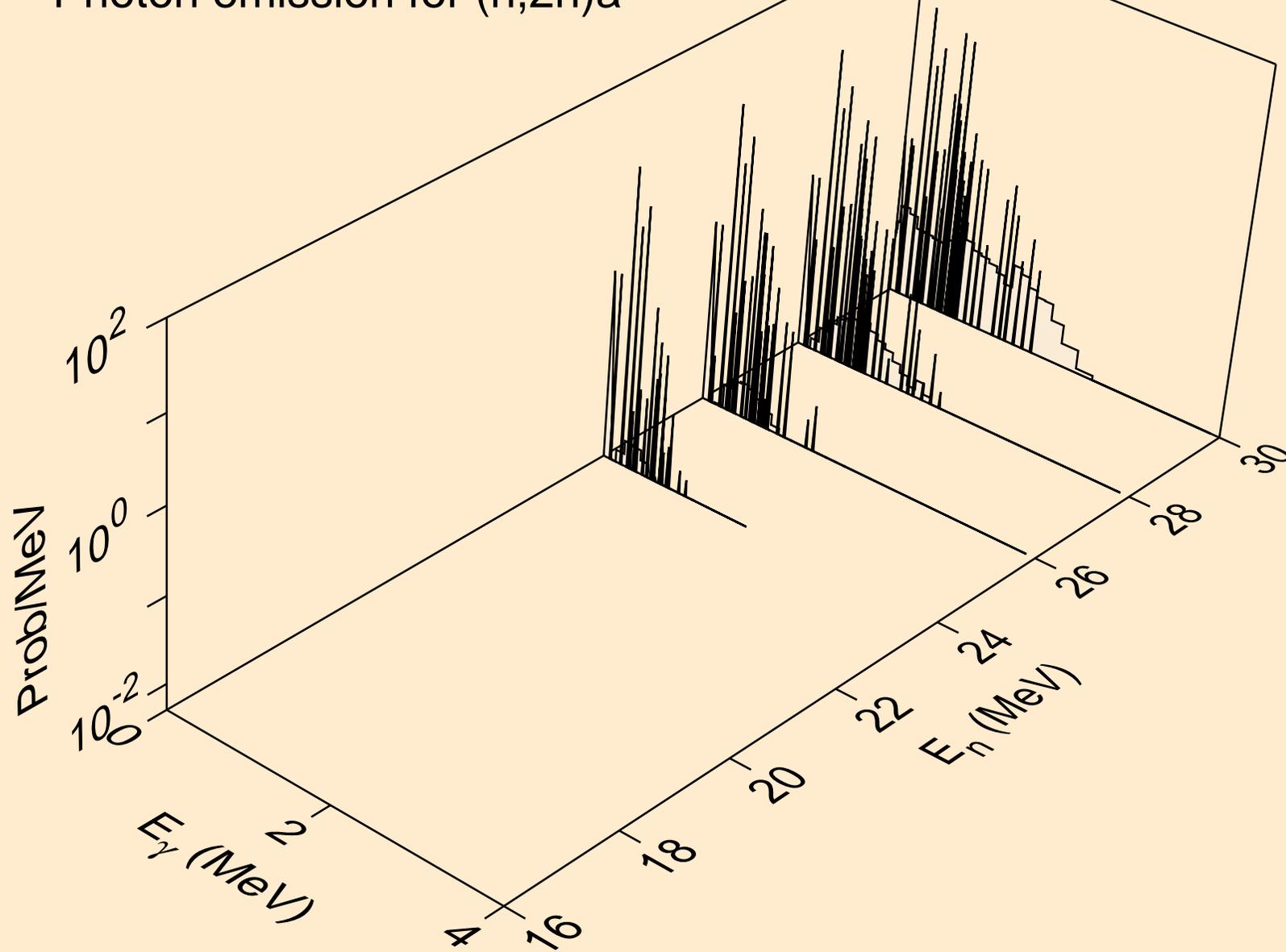Photon emission for (n,2n)

CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
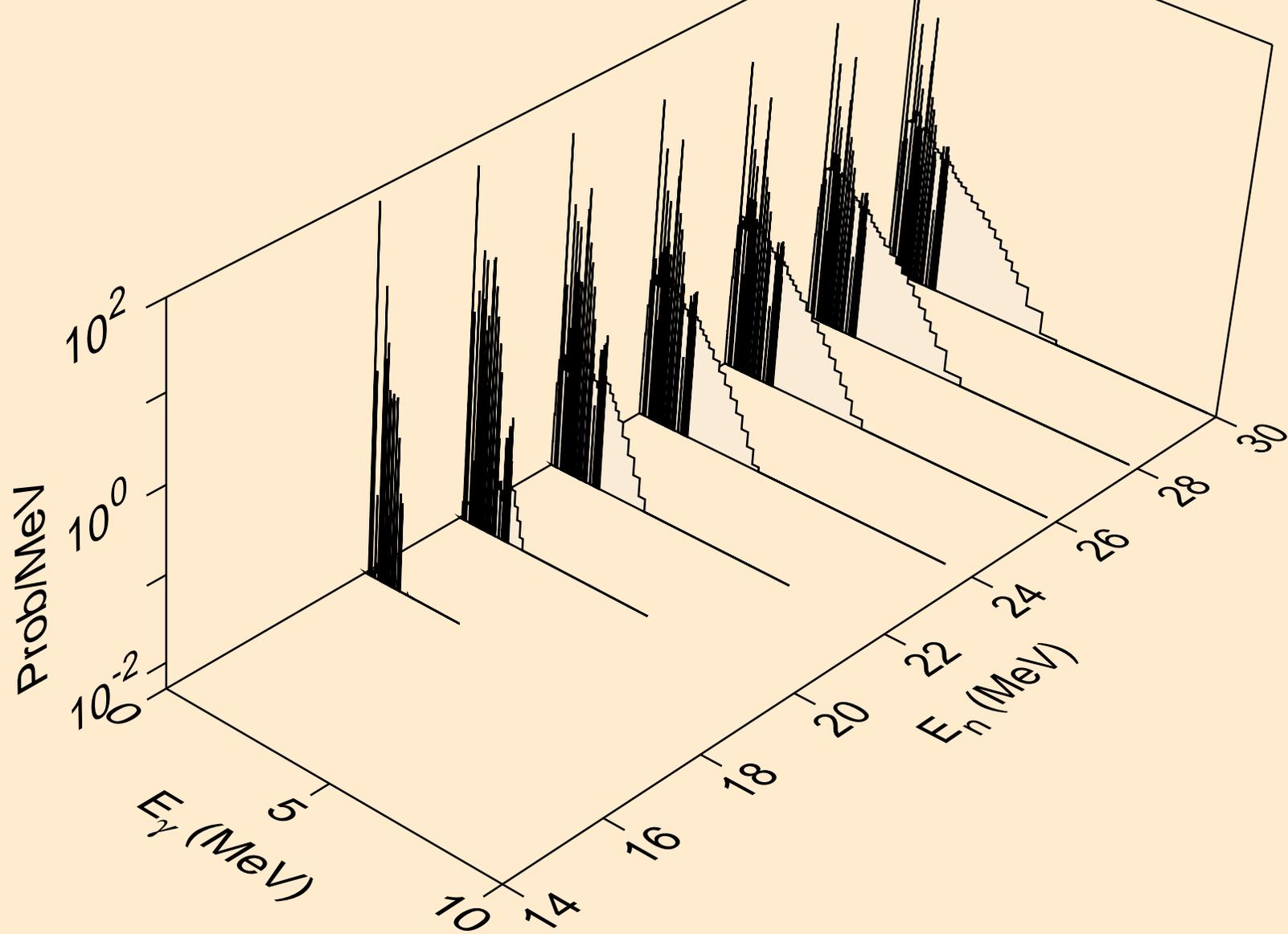Photon emission for (n,3n)

CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
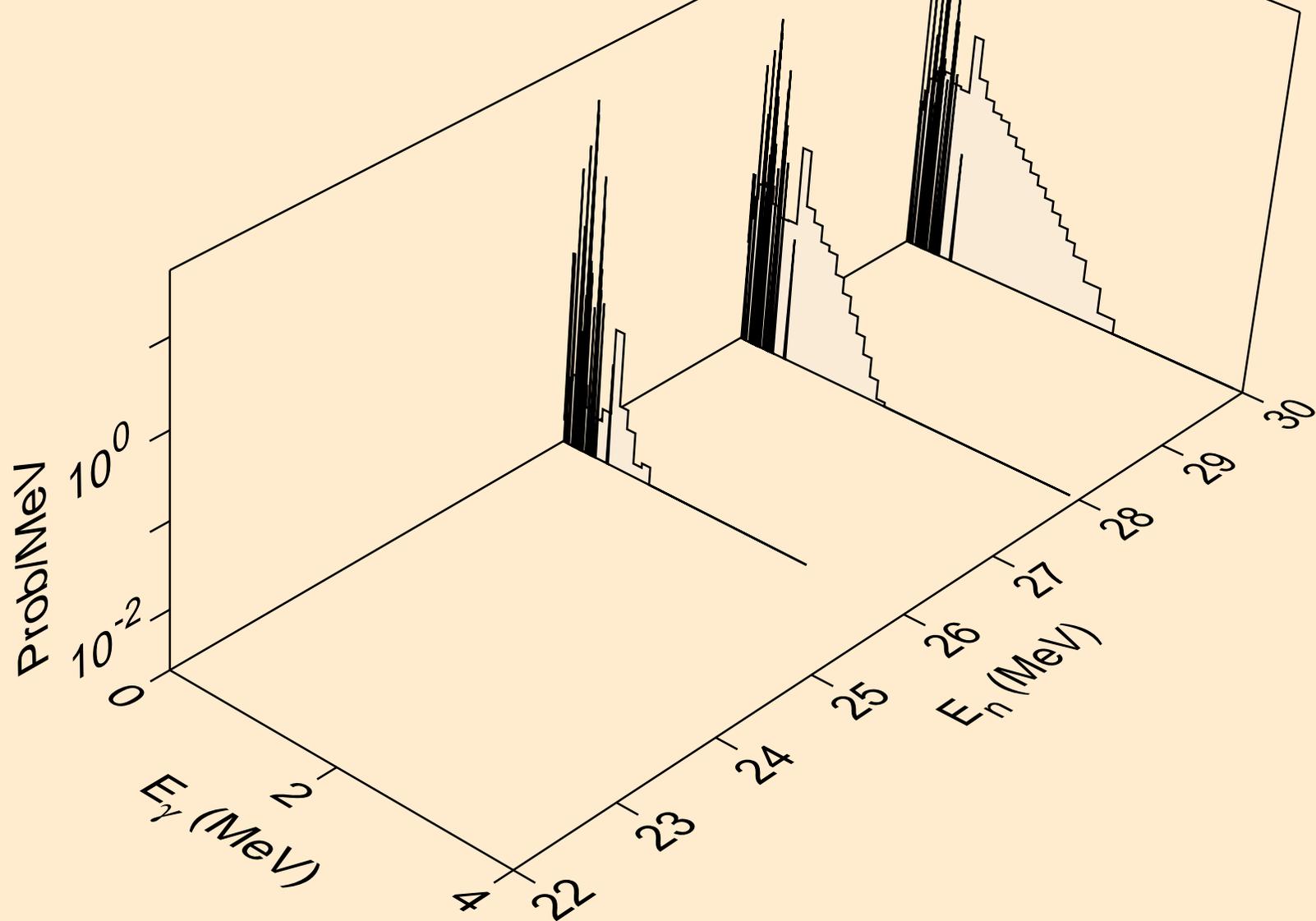Photon emission for (n,n*)a

CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
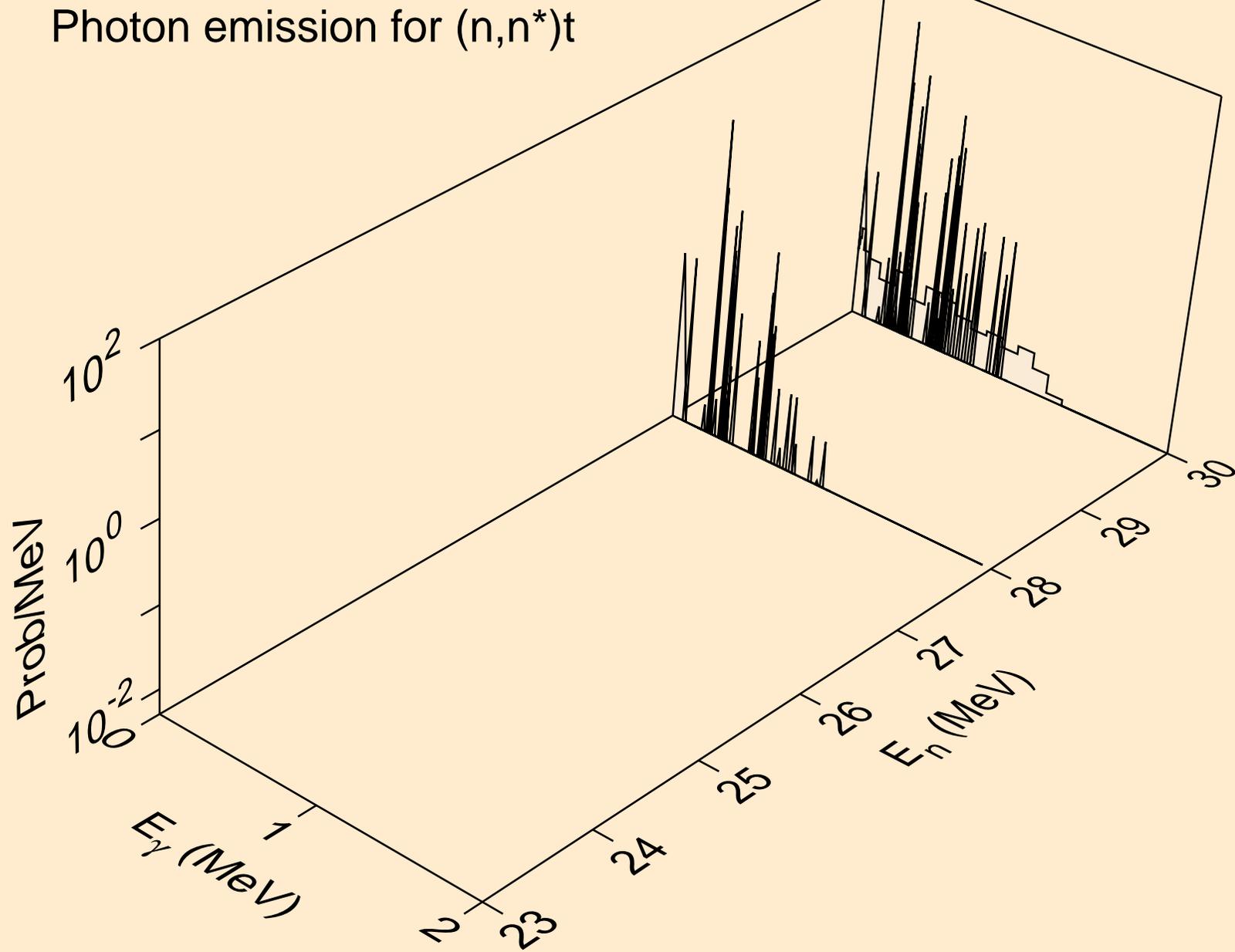Photon emission for (n,2n)a

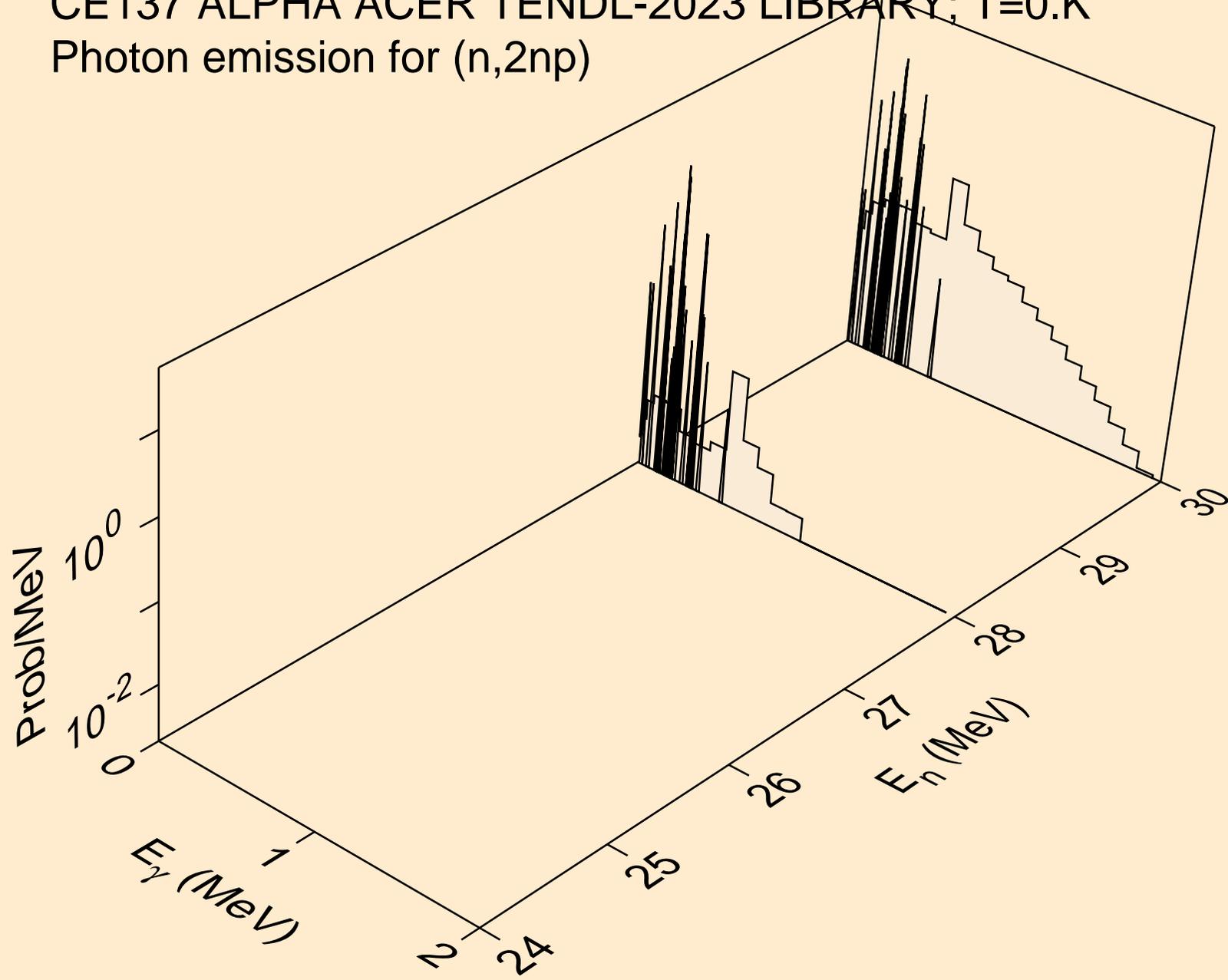CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)p

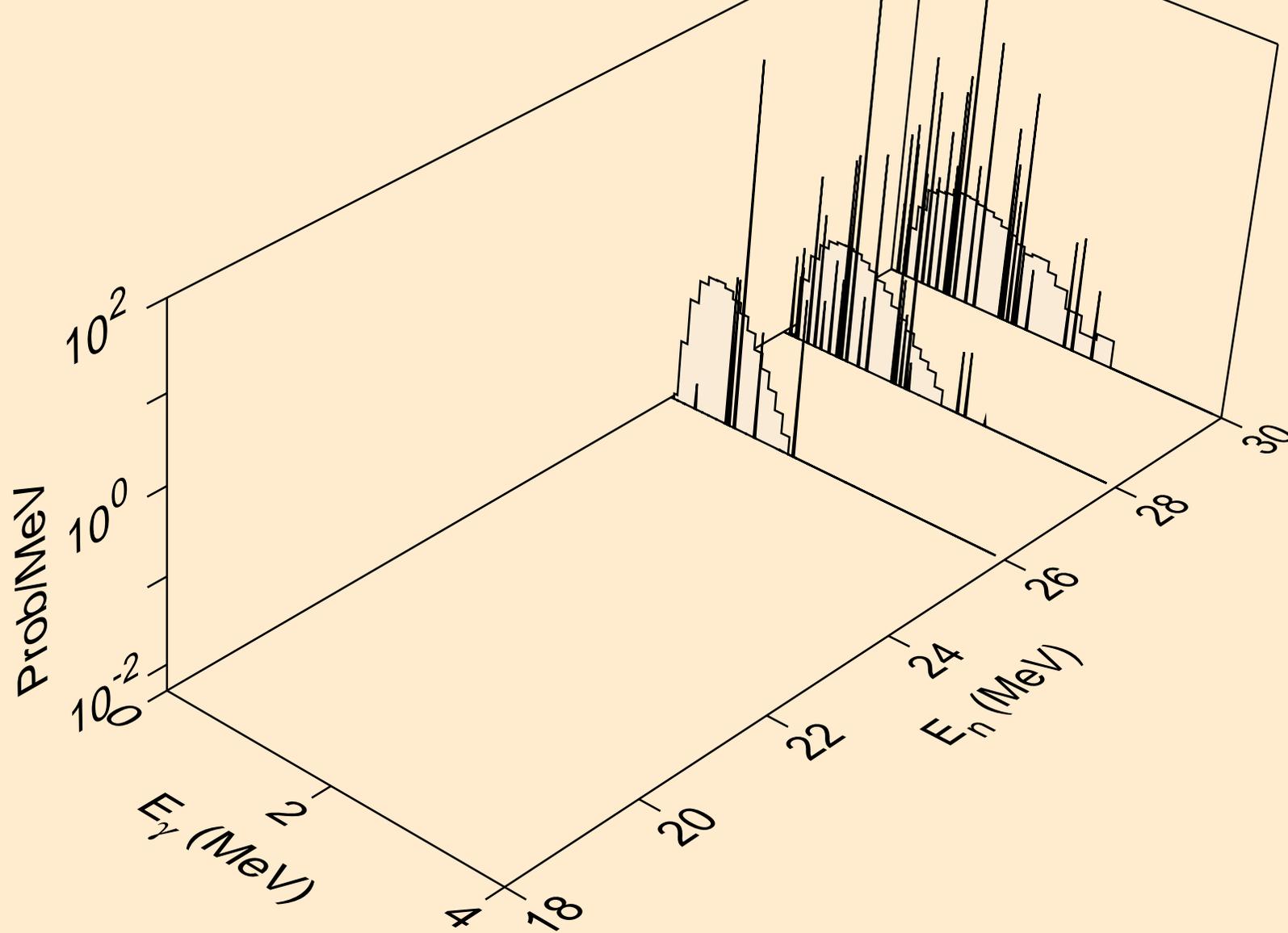CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)d

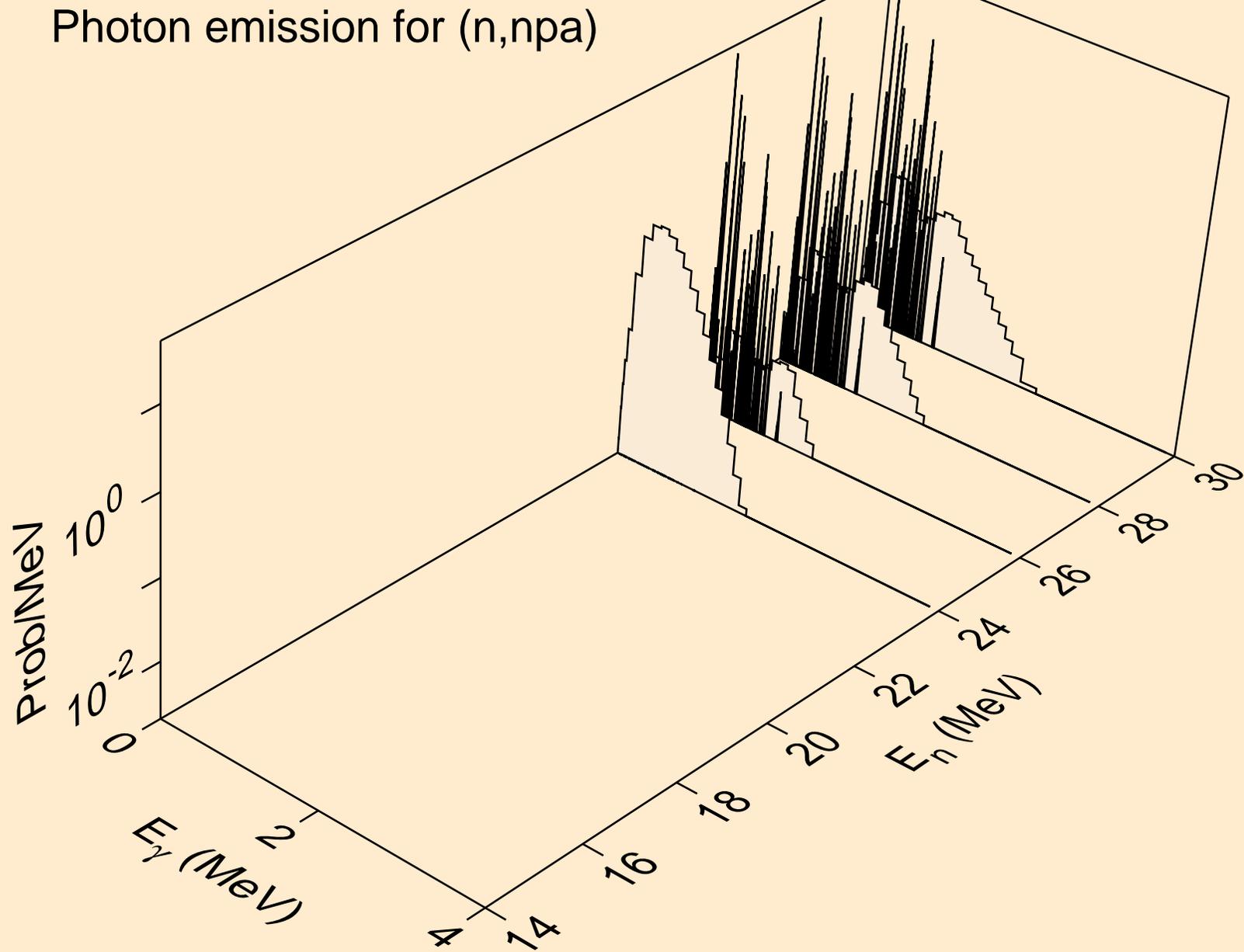CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)t

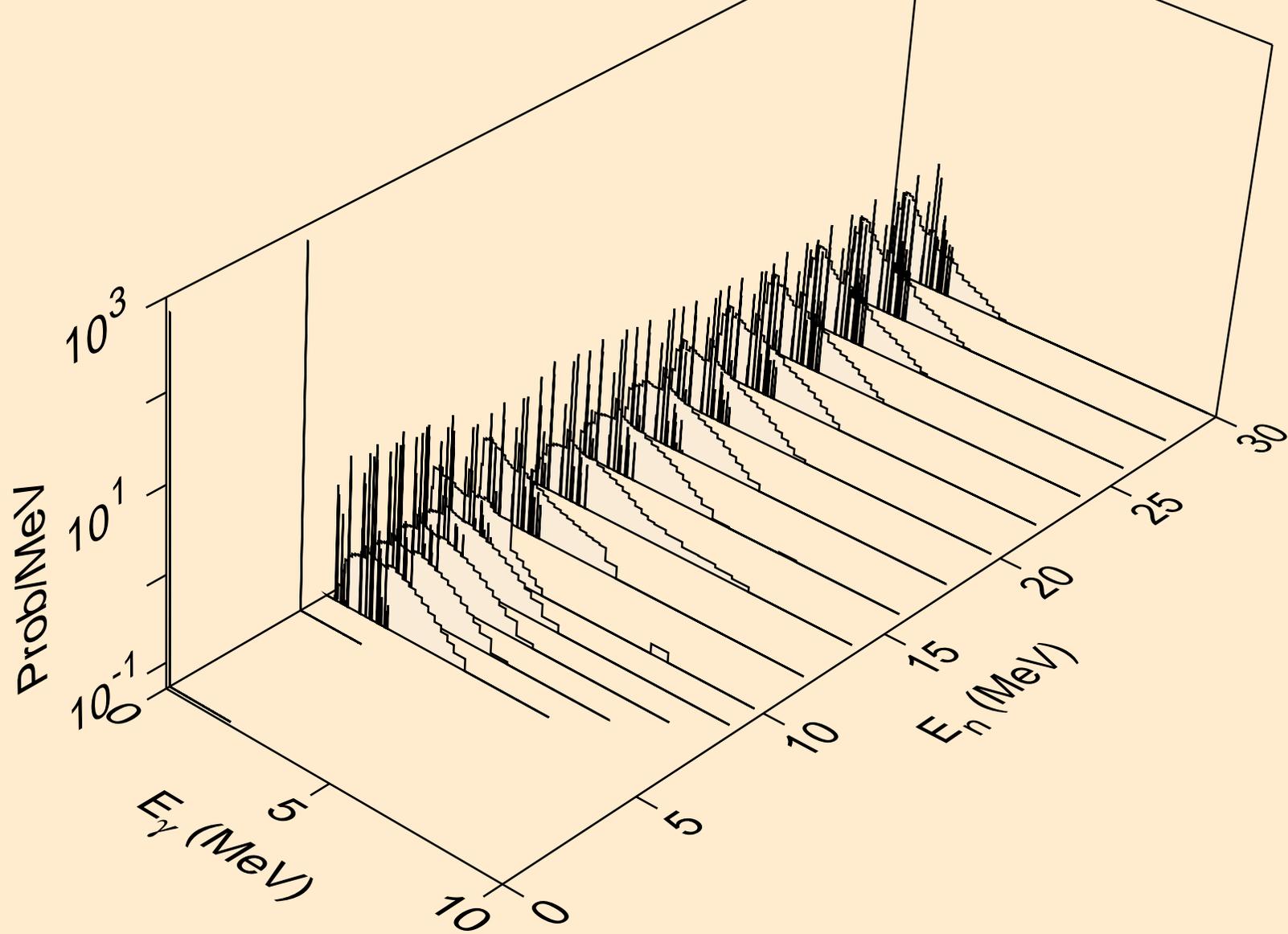CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2np)

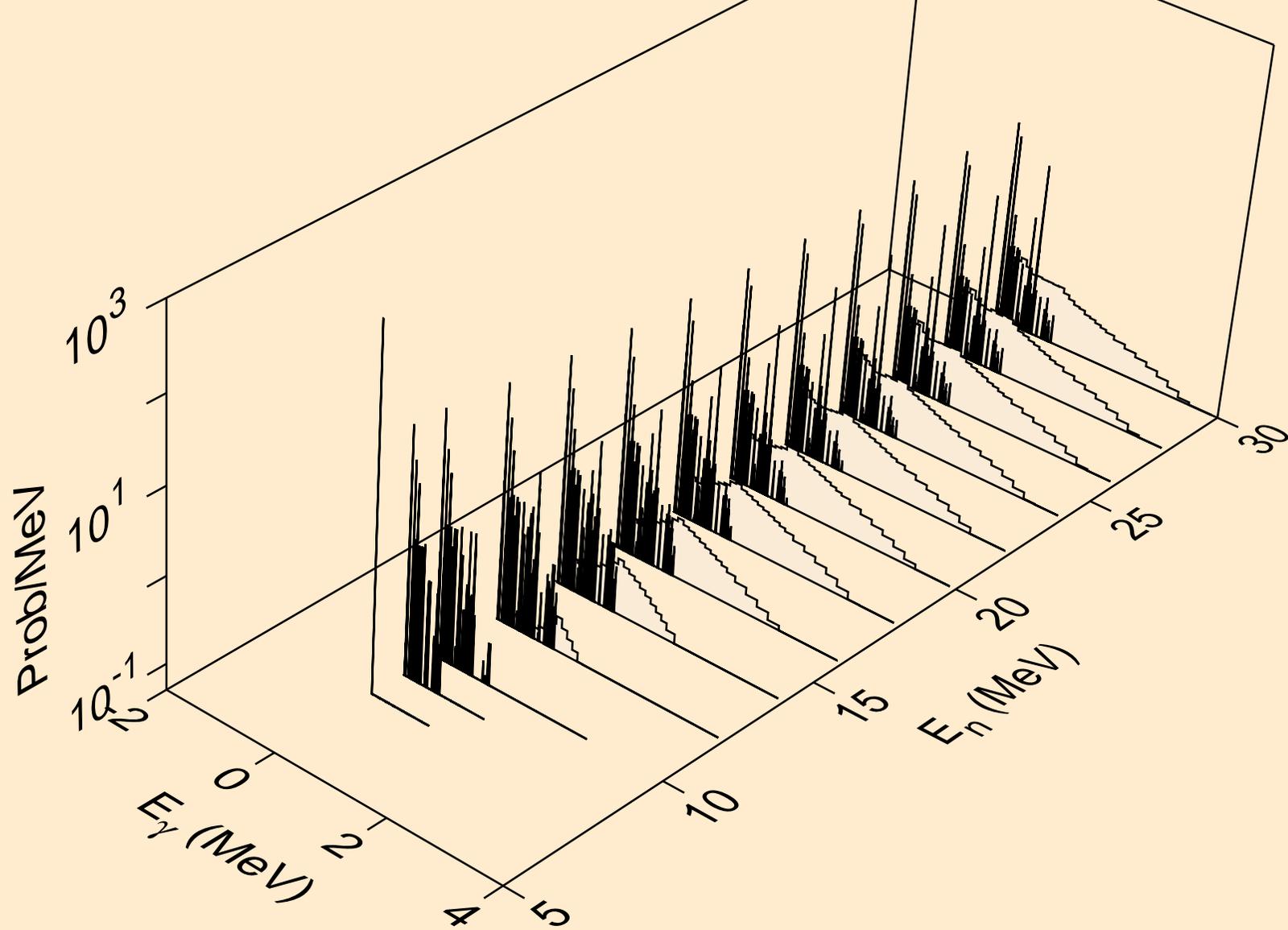CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n2p)

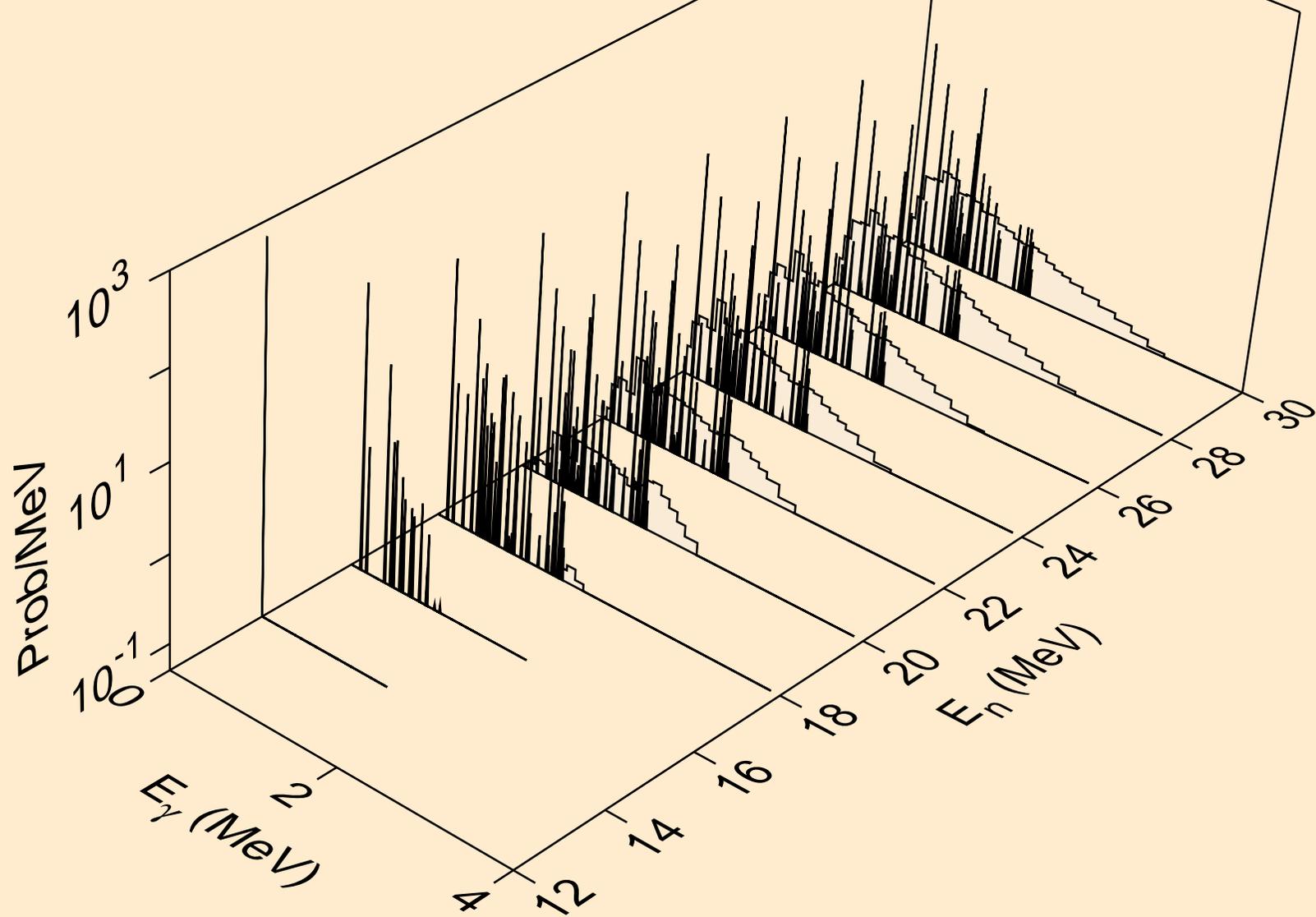CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,npa)

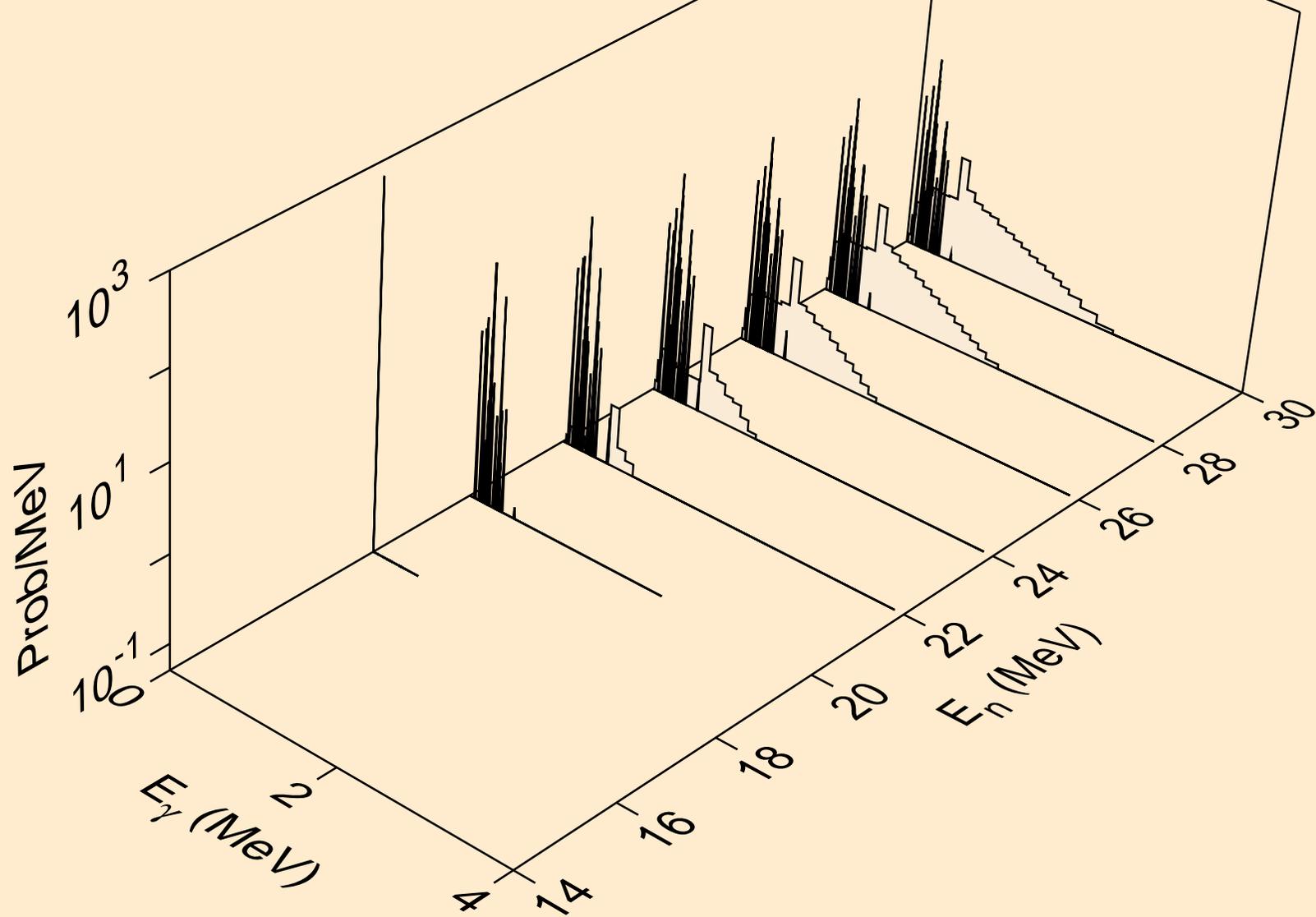CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,gma)

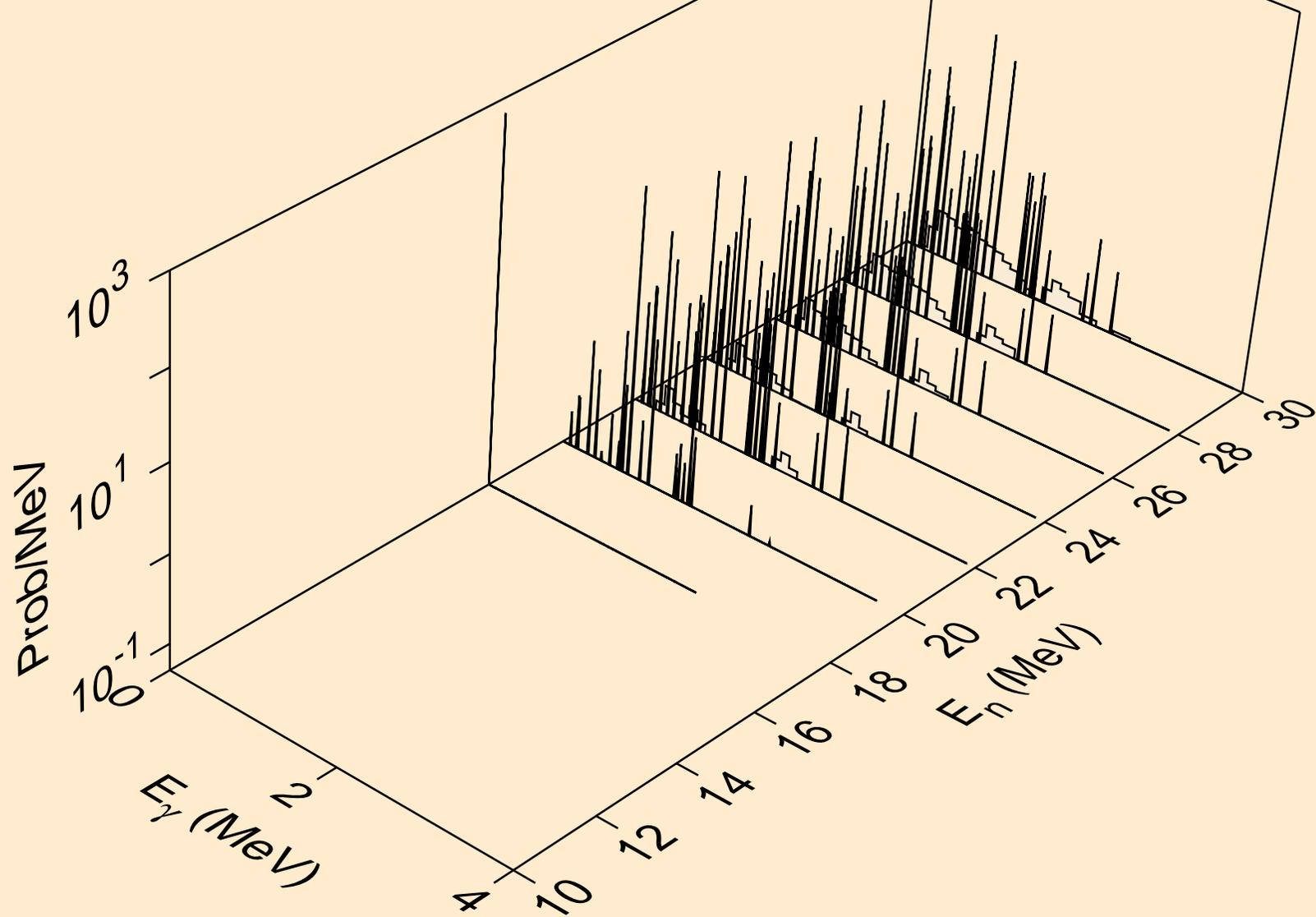CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,p)

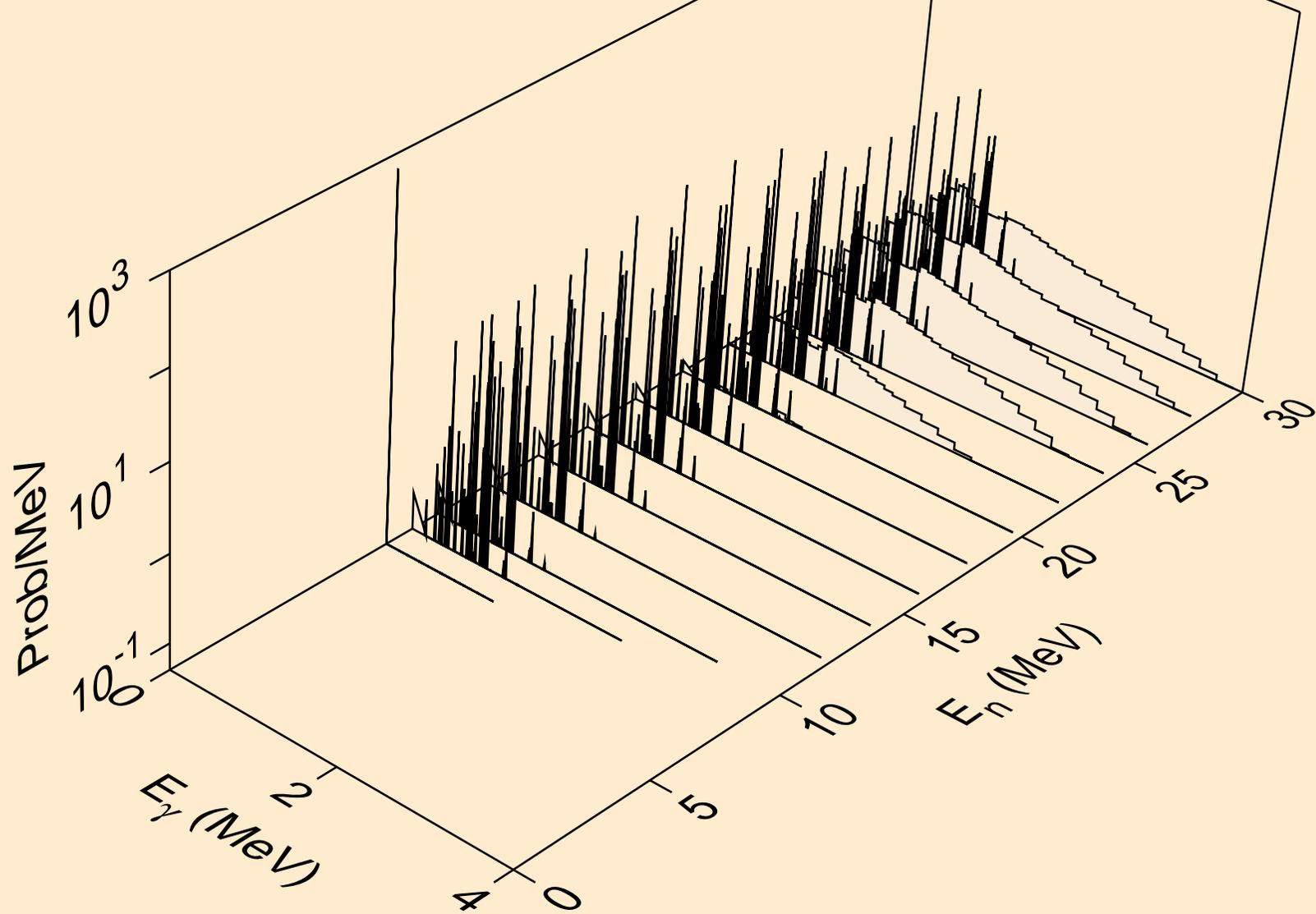CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,d)

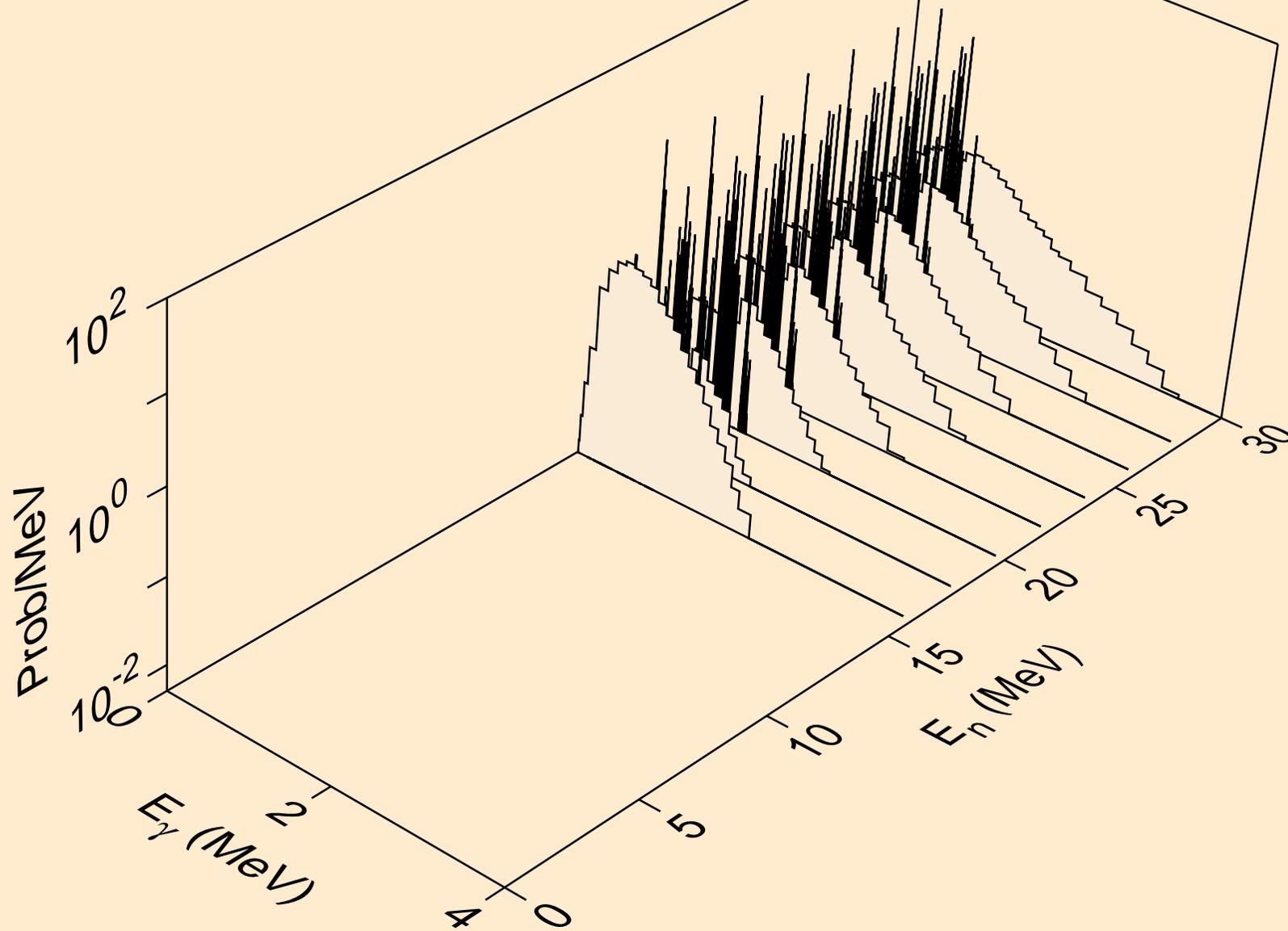CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,t)

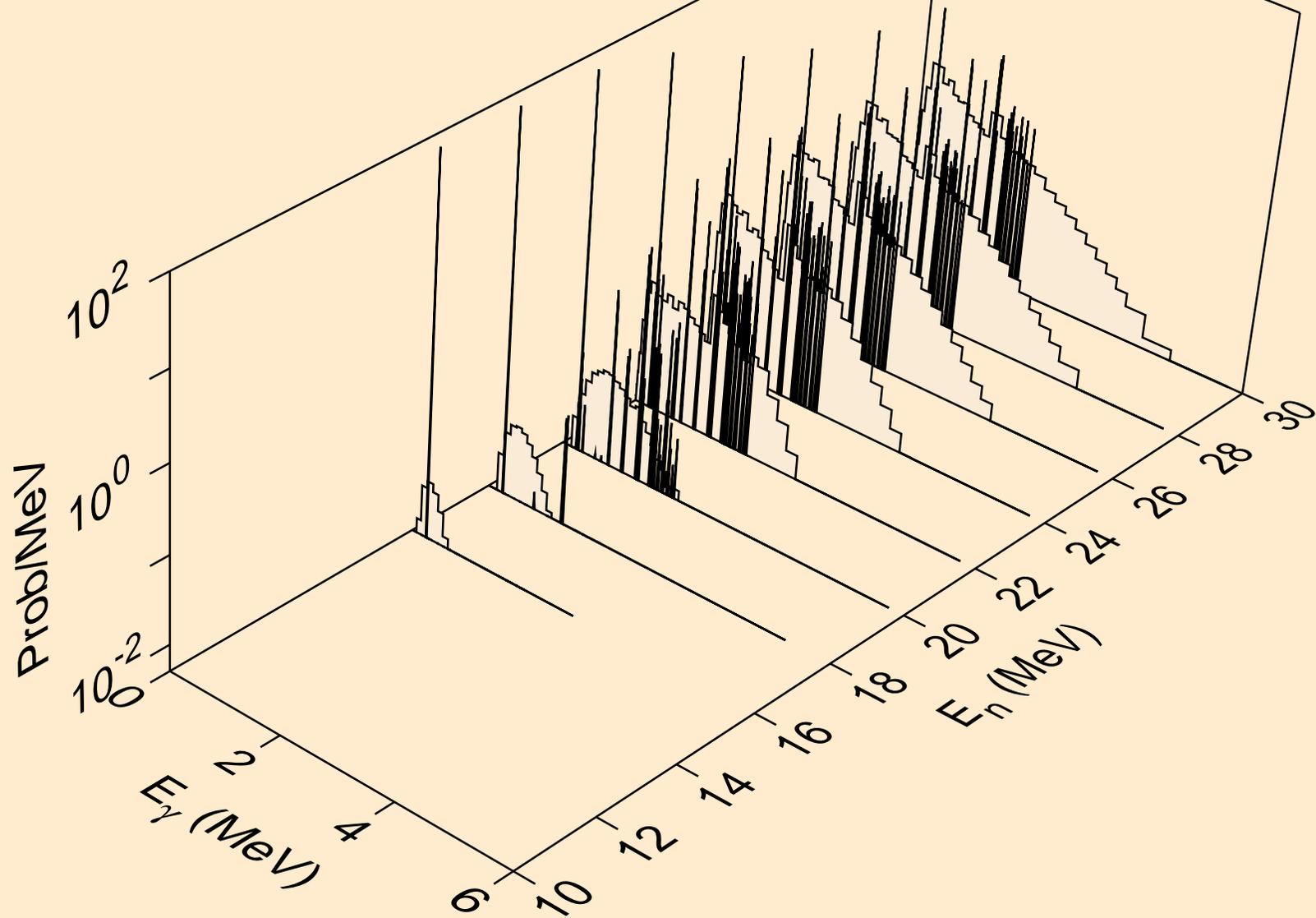CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,he3)

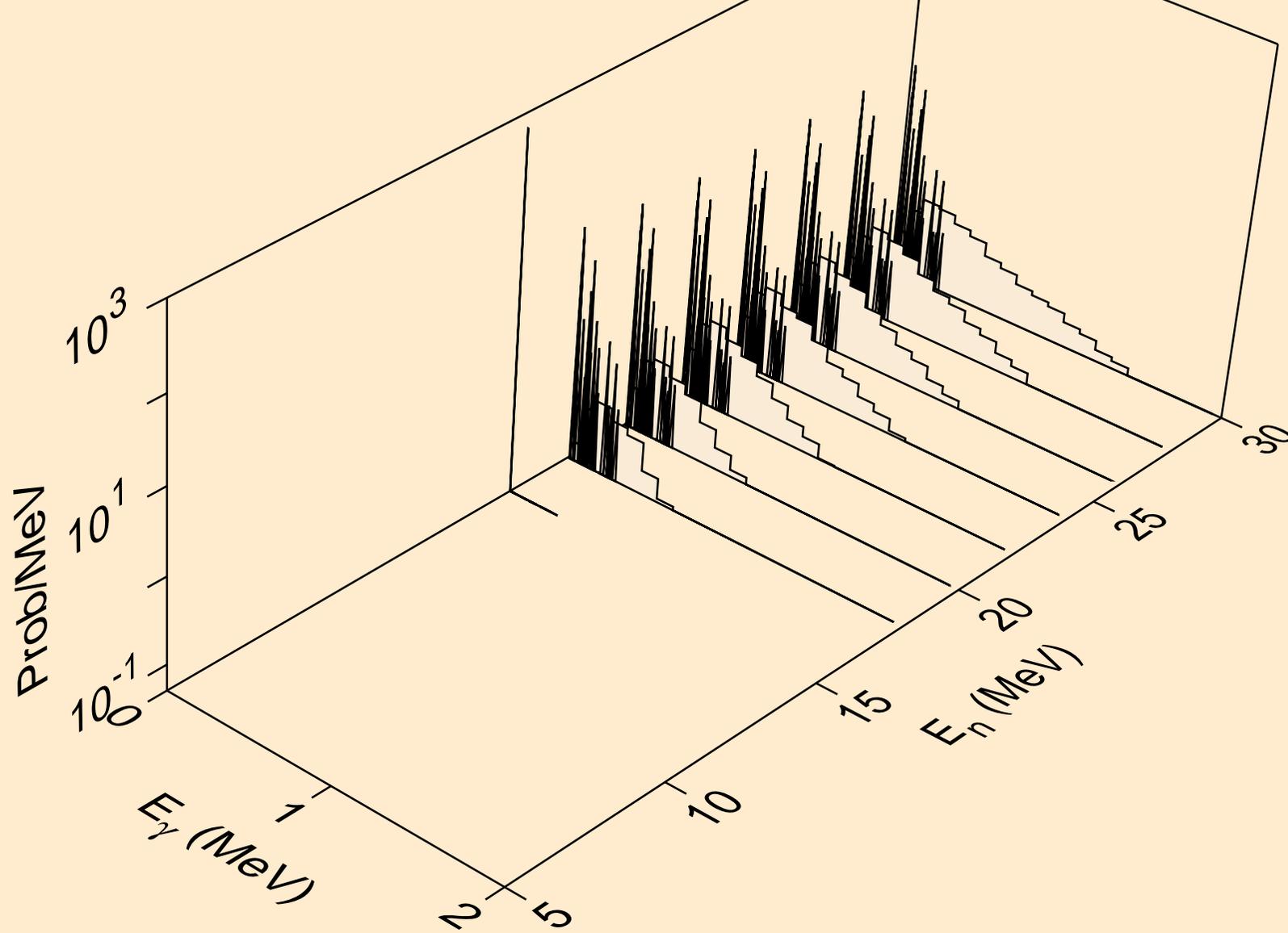CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for inelastic

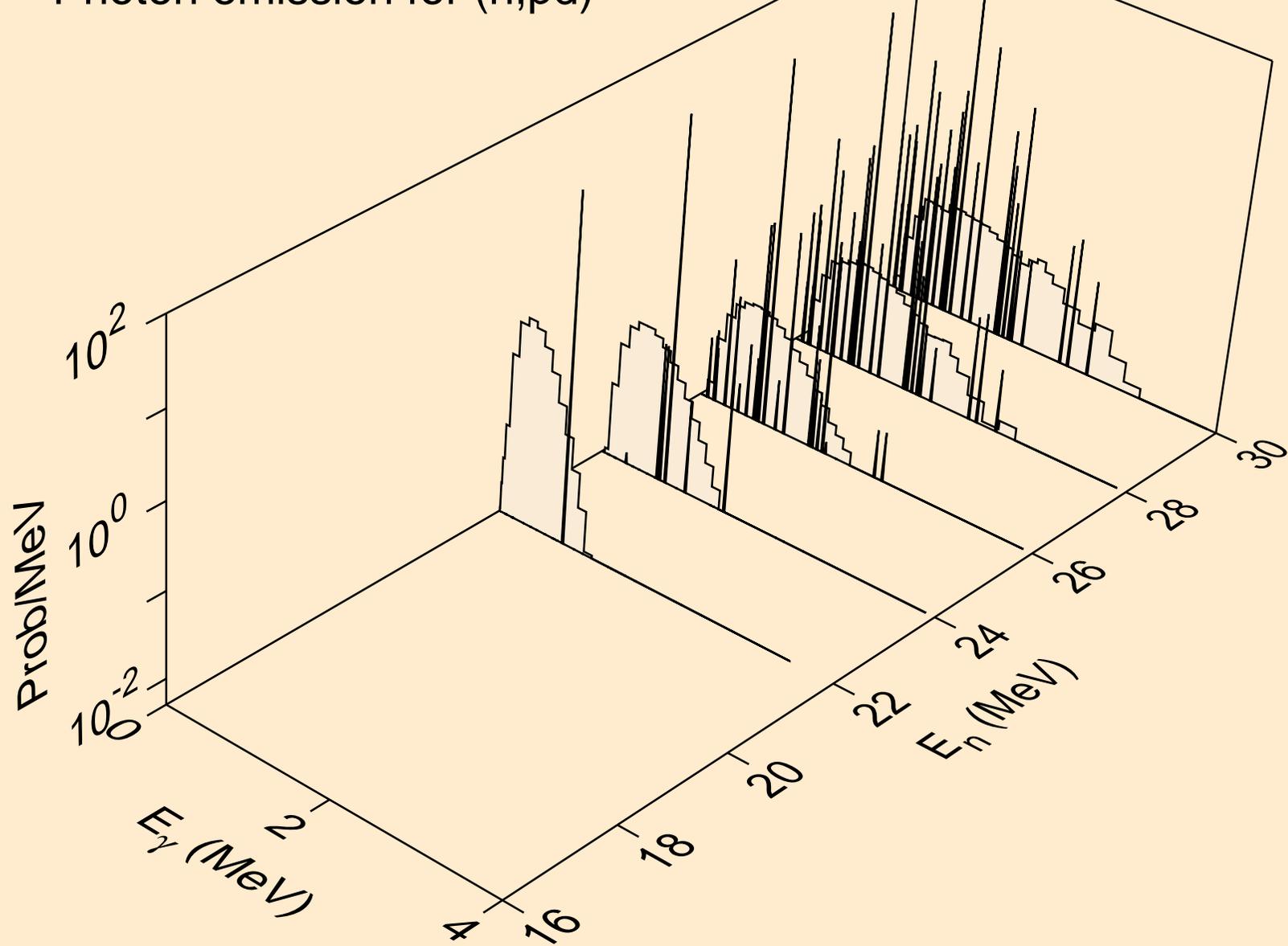CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2a)

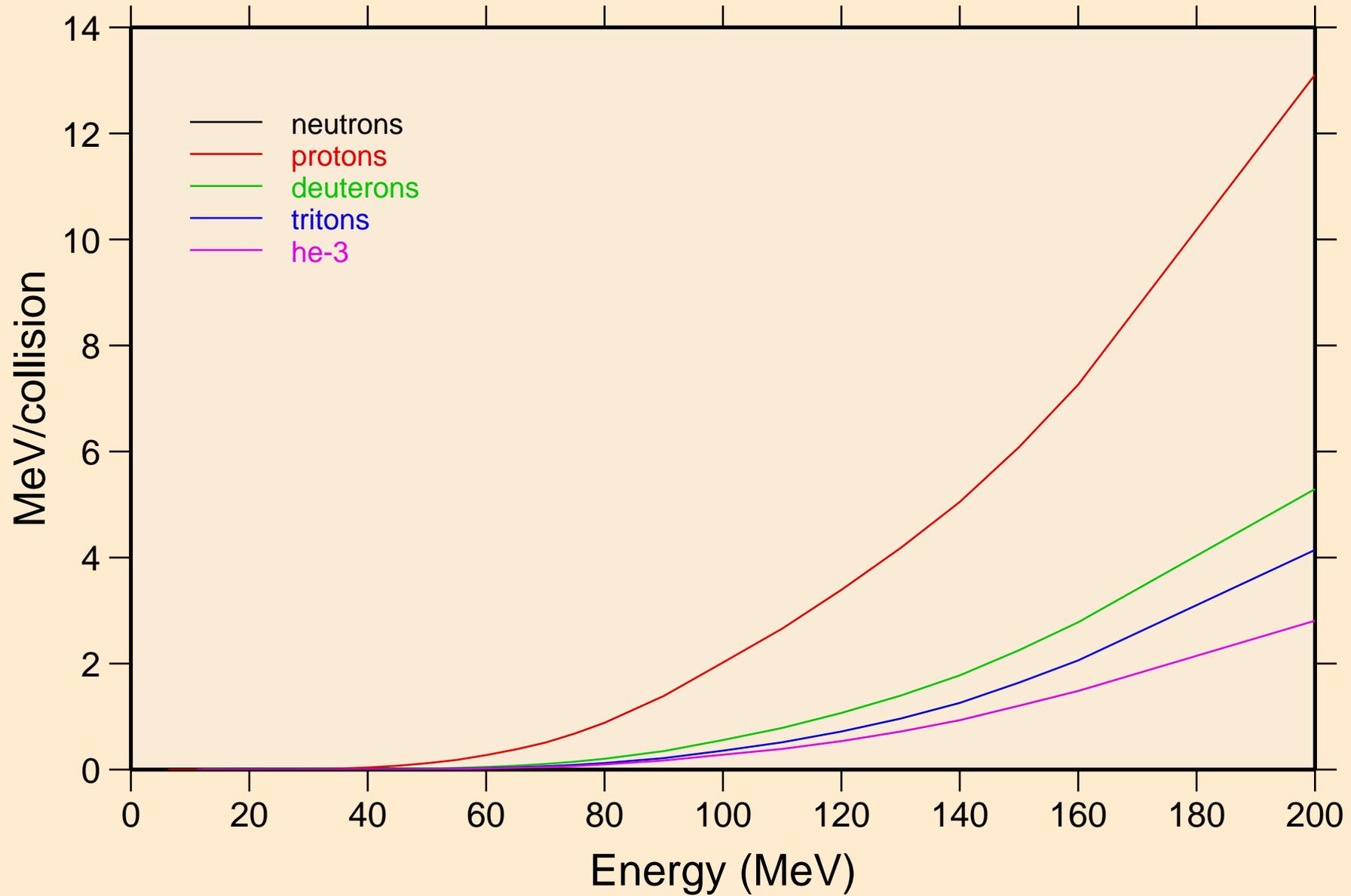CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2p)

CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
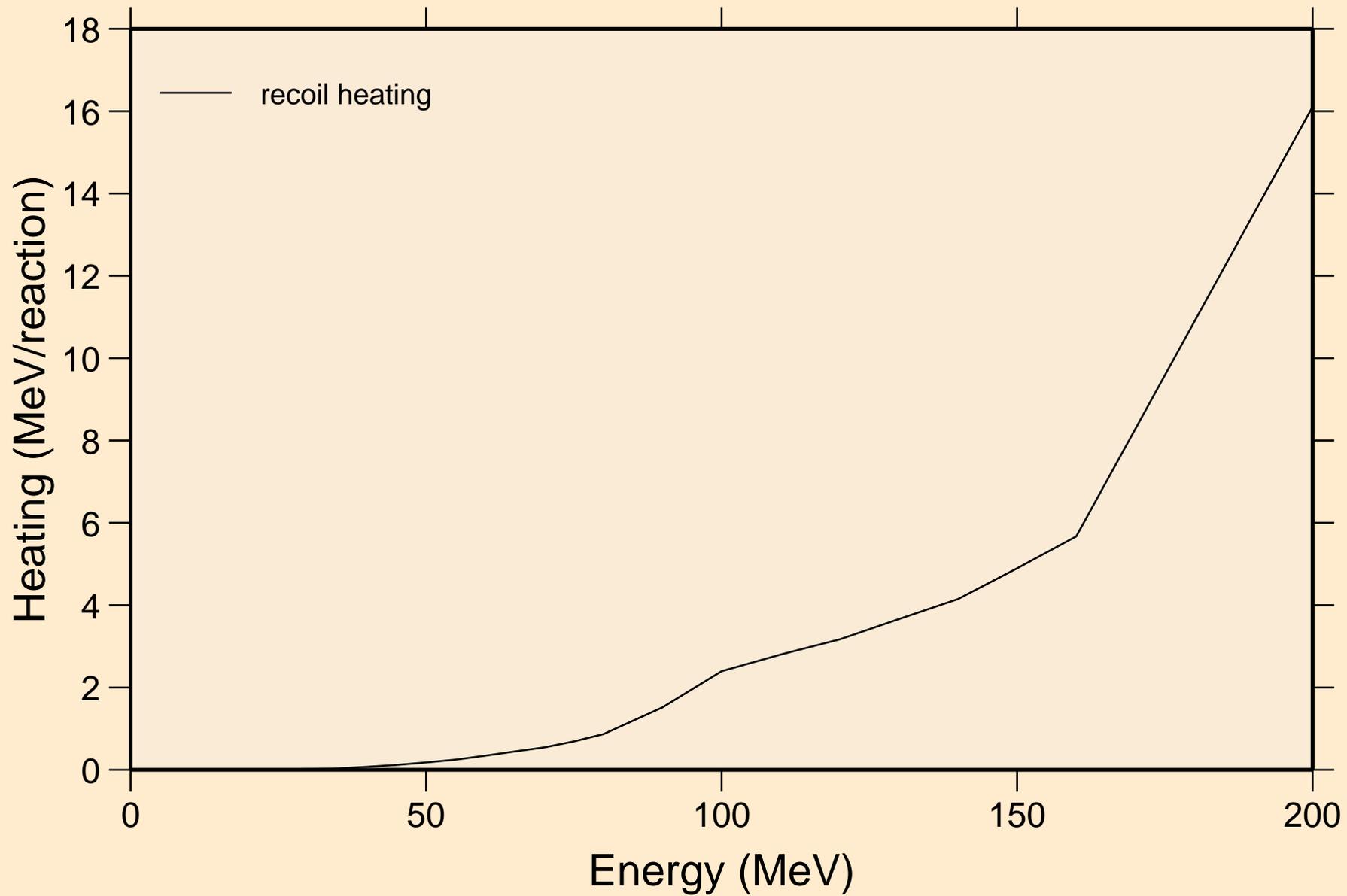Photon emission for (n,pa)

CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
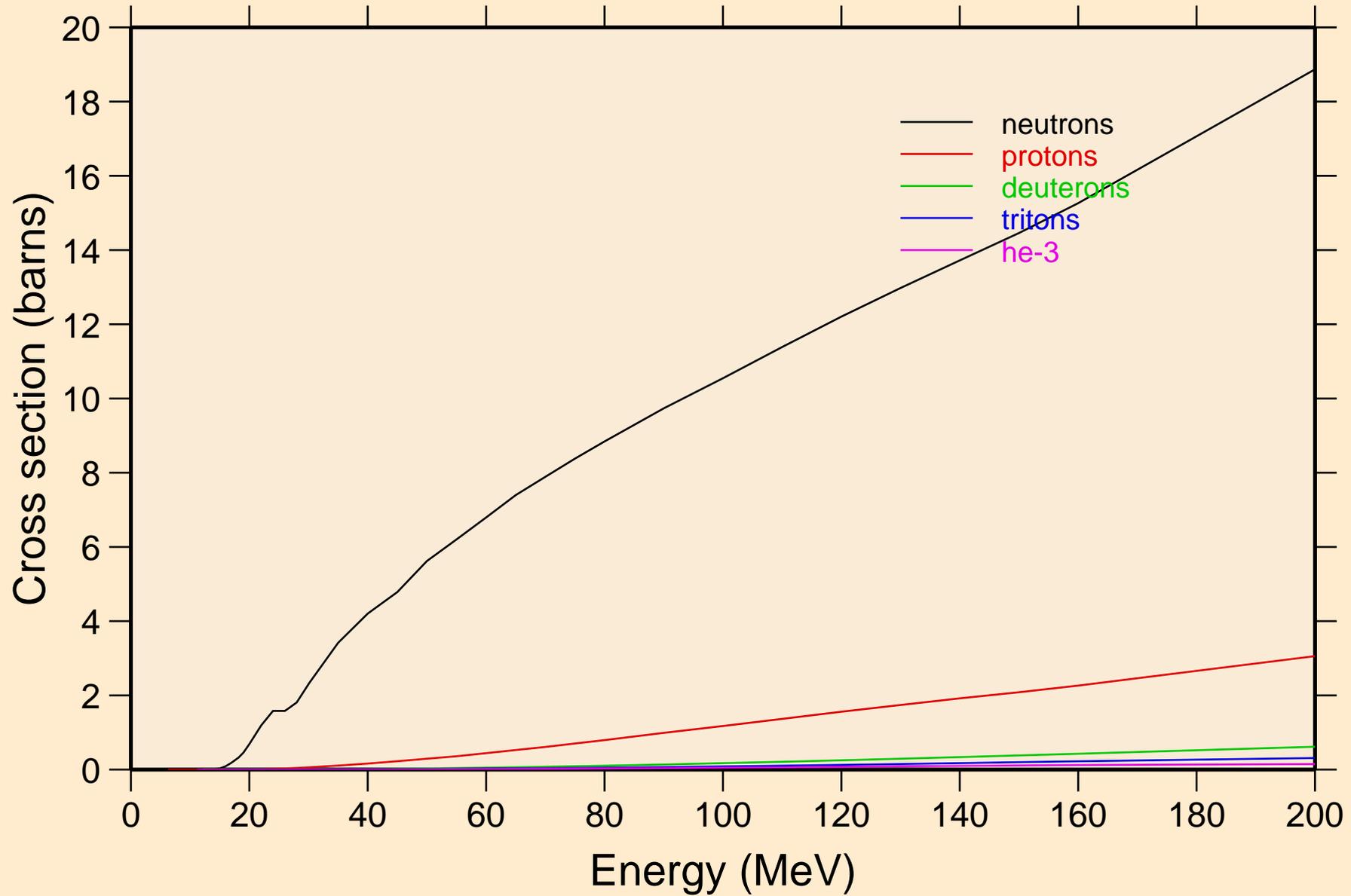Photon emission for (n,pd)

CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
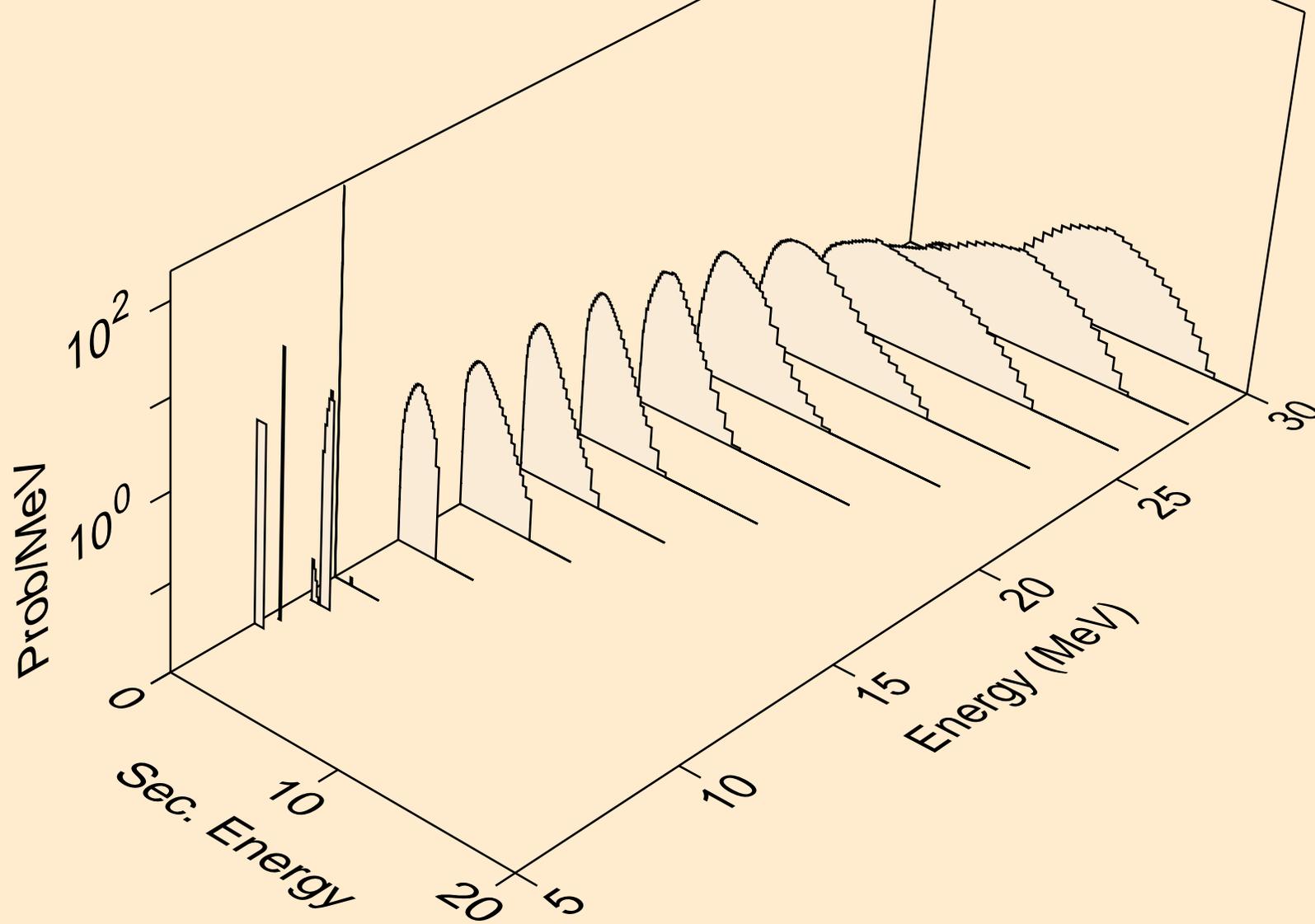Particle heating contributions

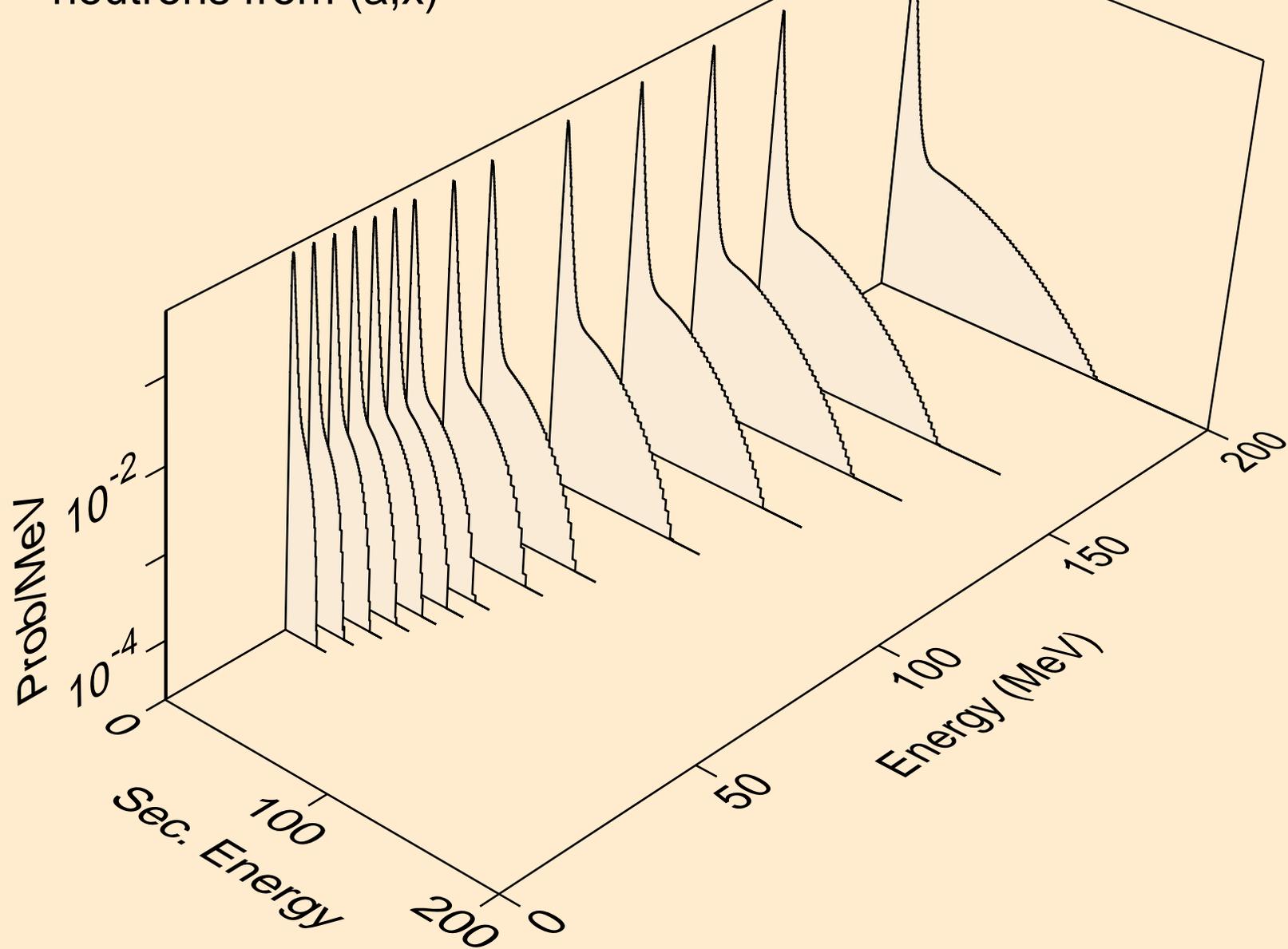CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Recoil Heating

recoil heating

Heating (MeV/reaction)

Energy (MeV)

CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Particle production cross sections

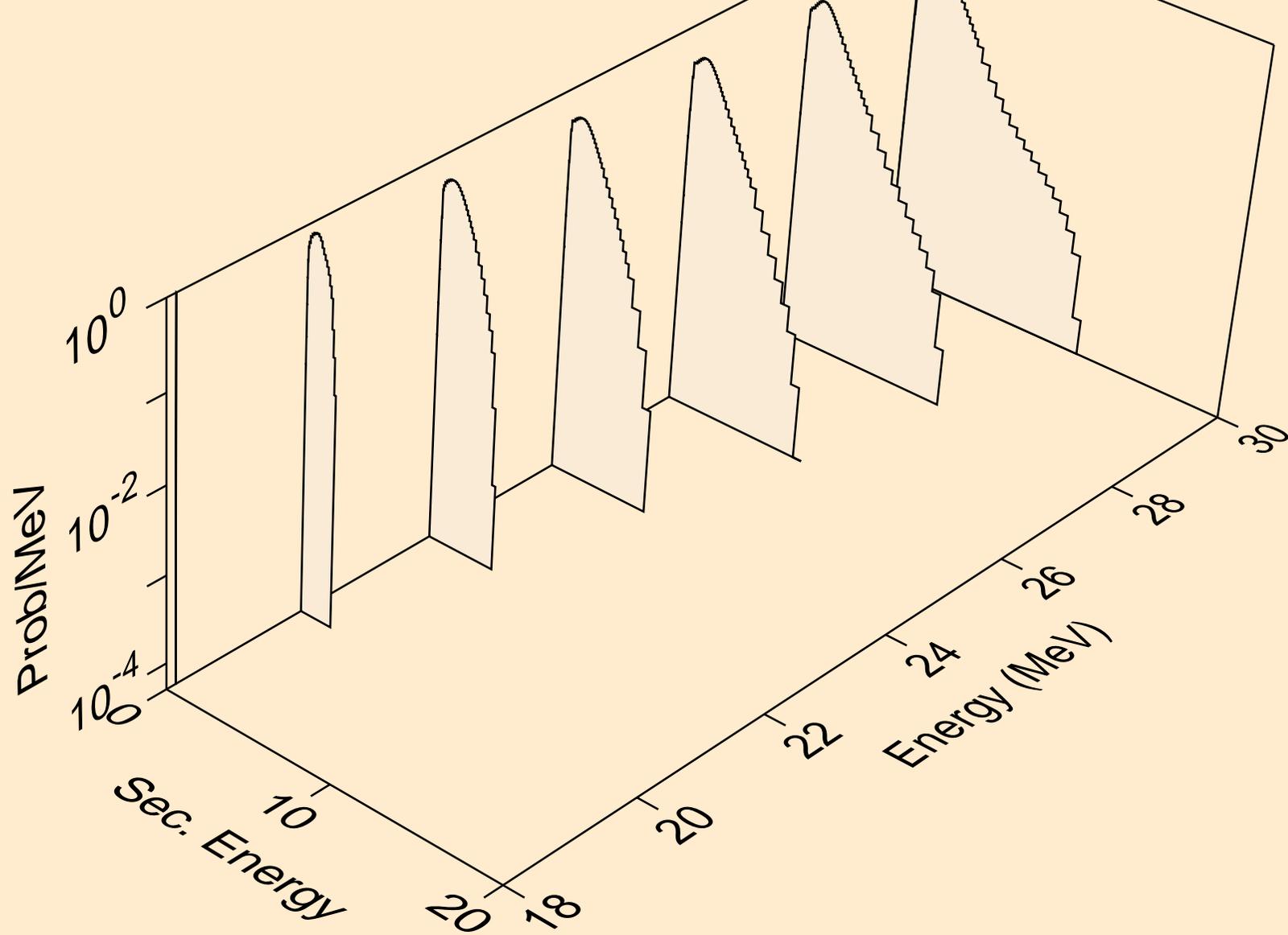neutrons
protons
deuterons
tritons
he-3

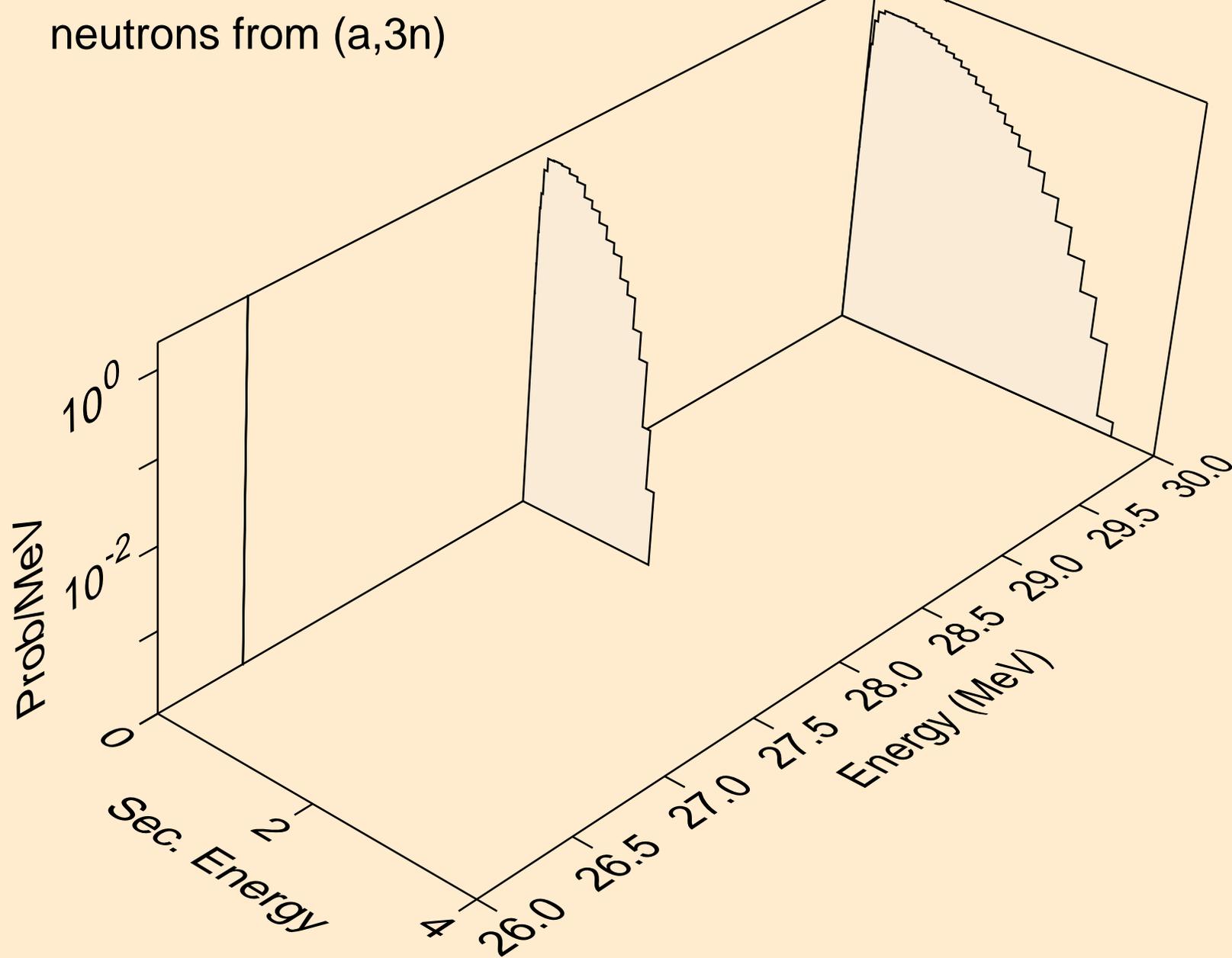CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (a,n)

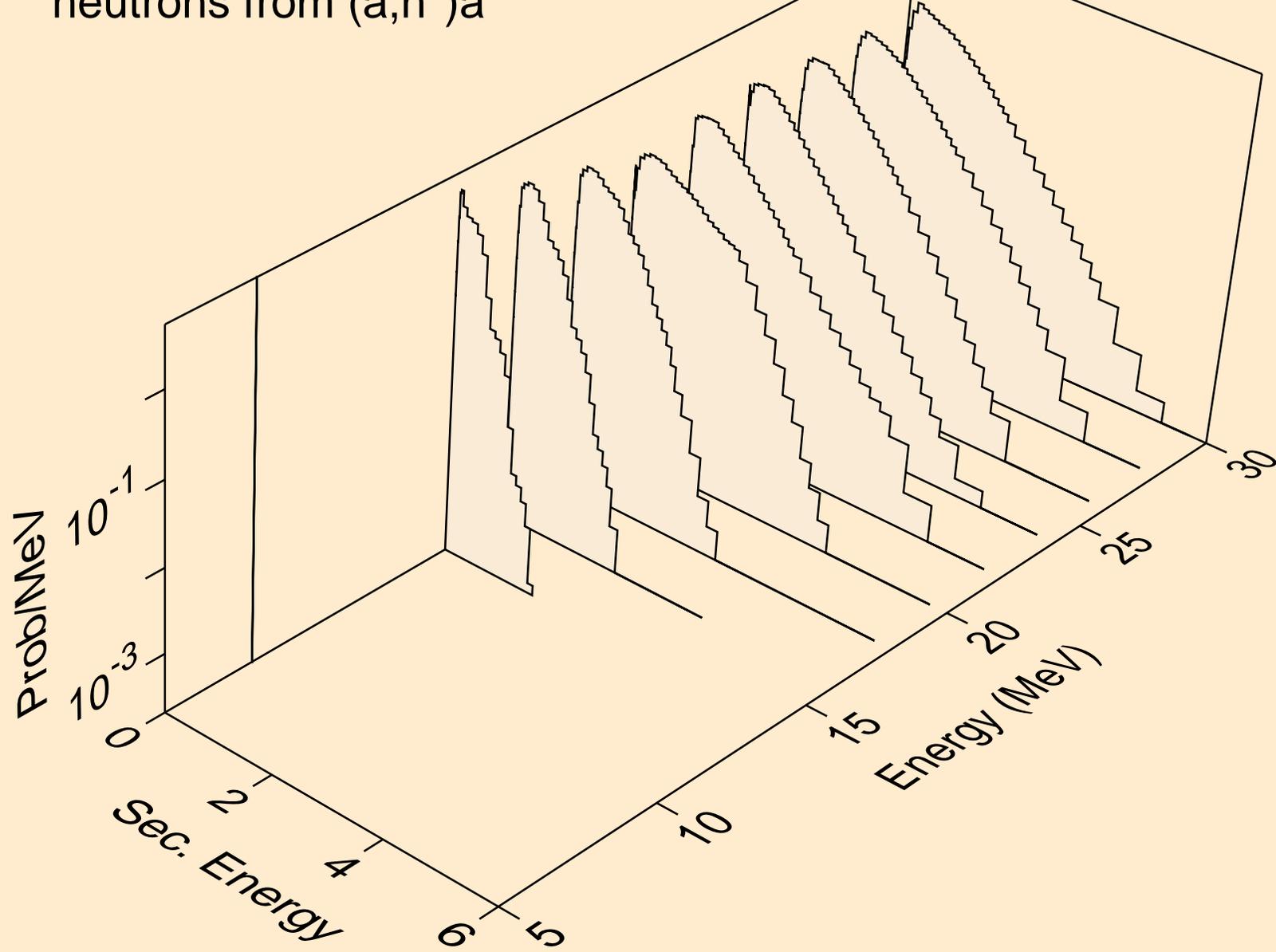CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (a,x)

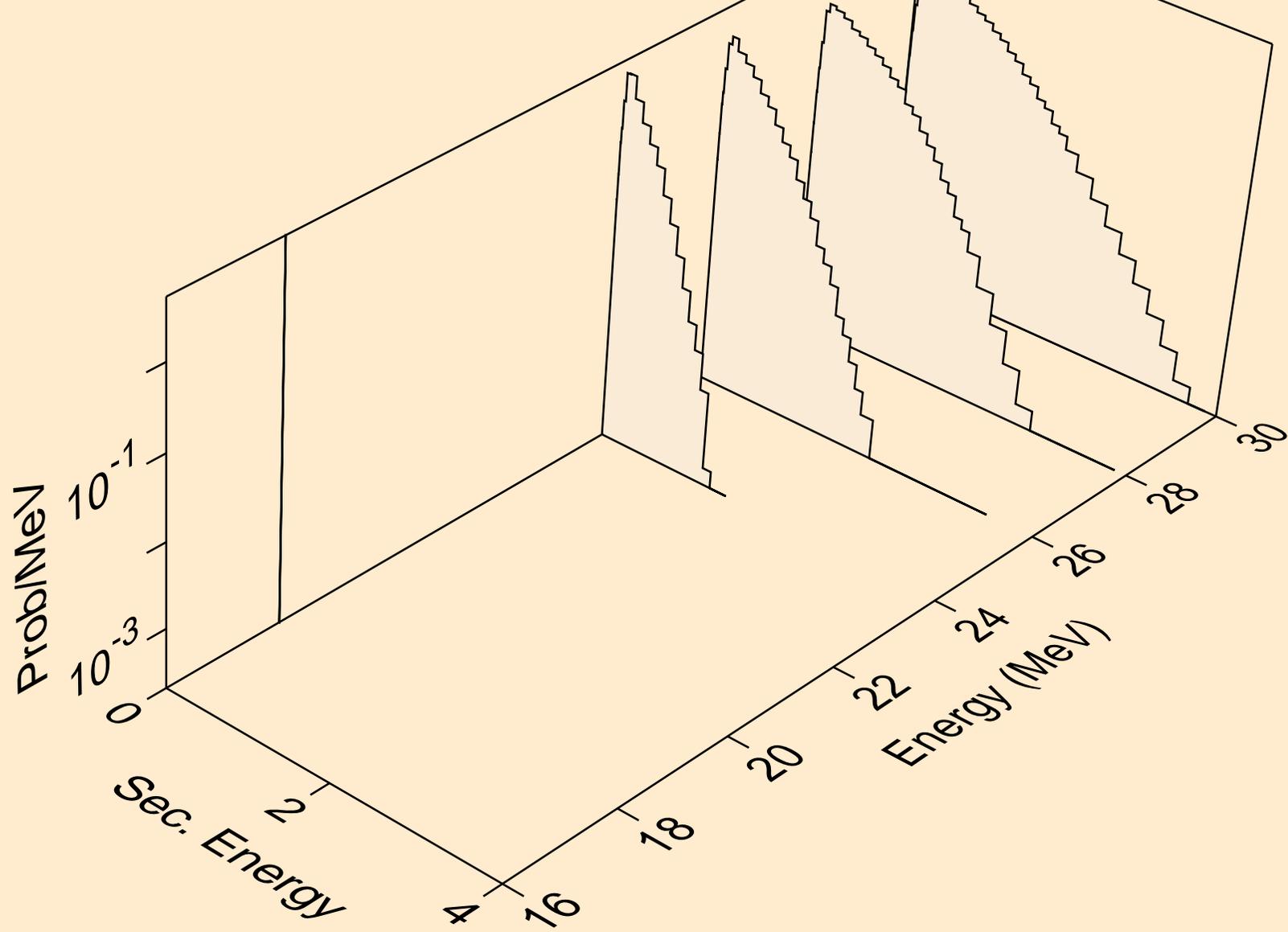CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (a,2n)

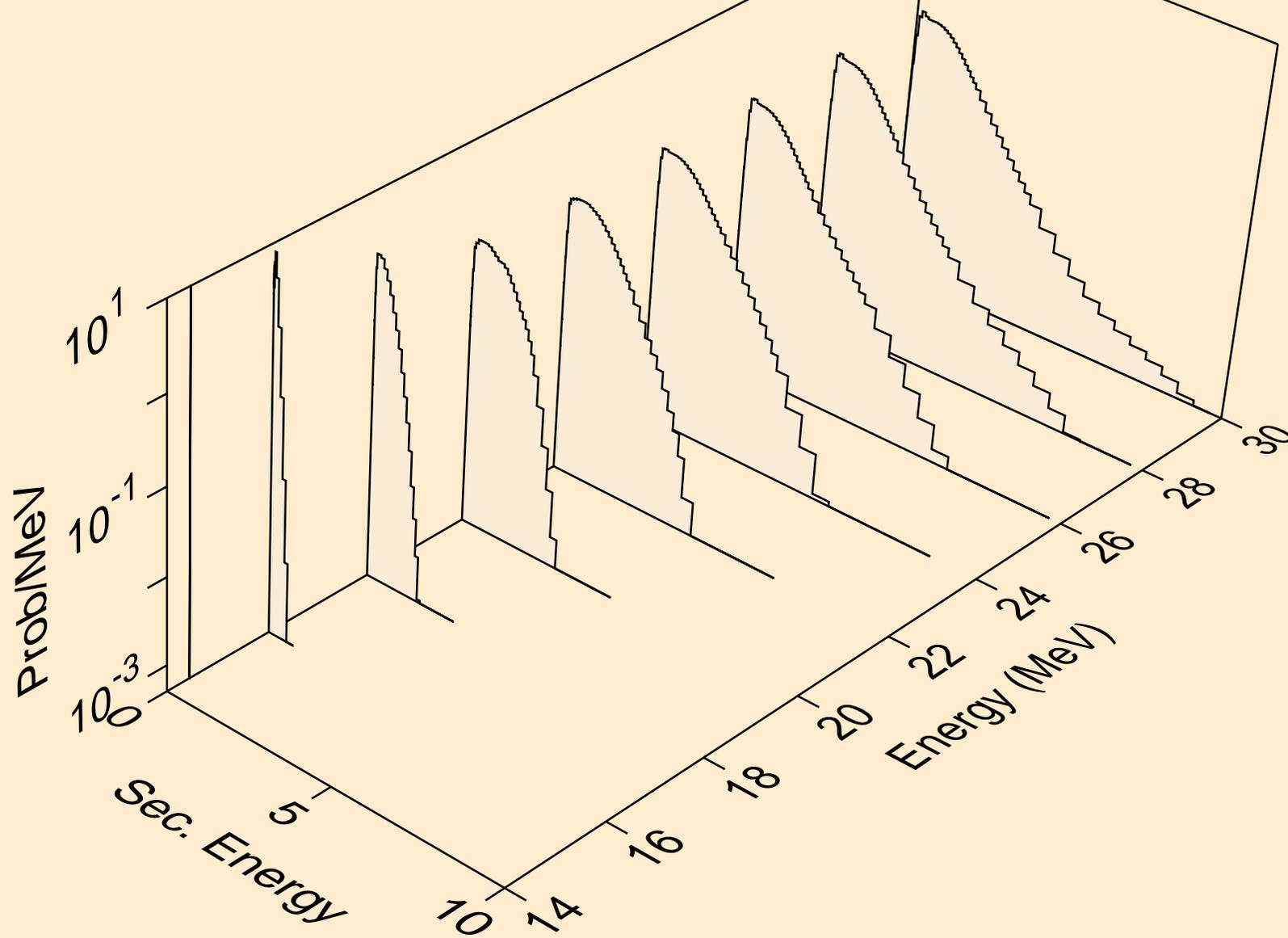CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (a,3n)

CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (a,n*)a

Prob/MeV

10^{-1}
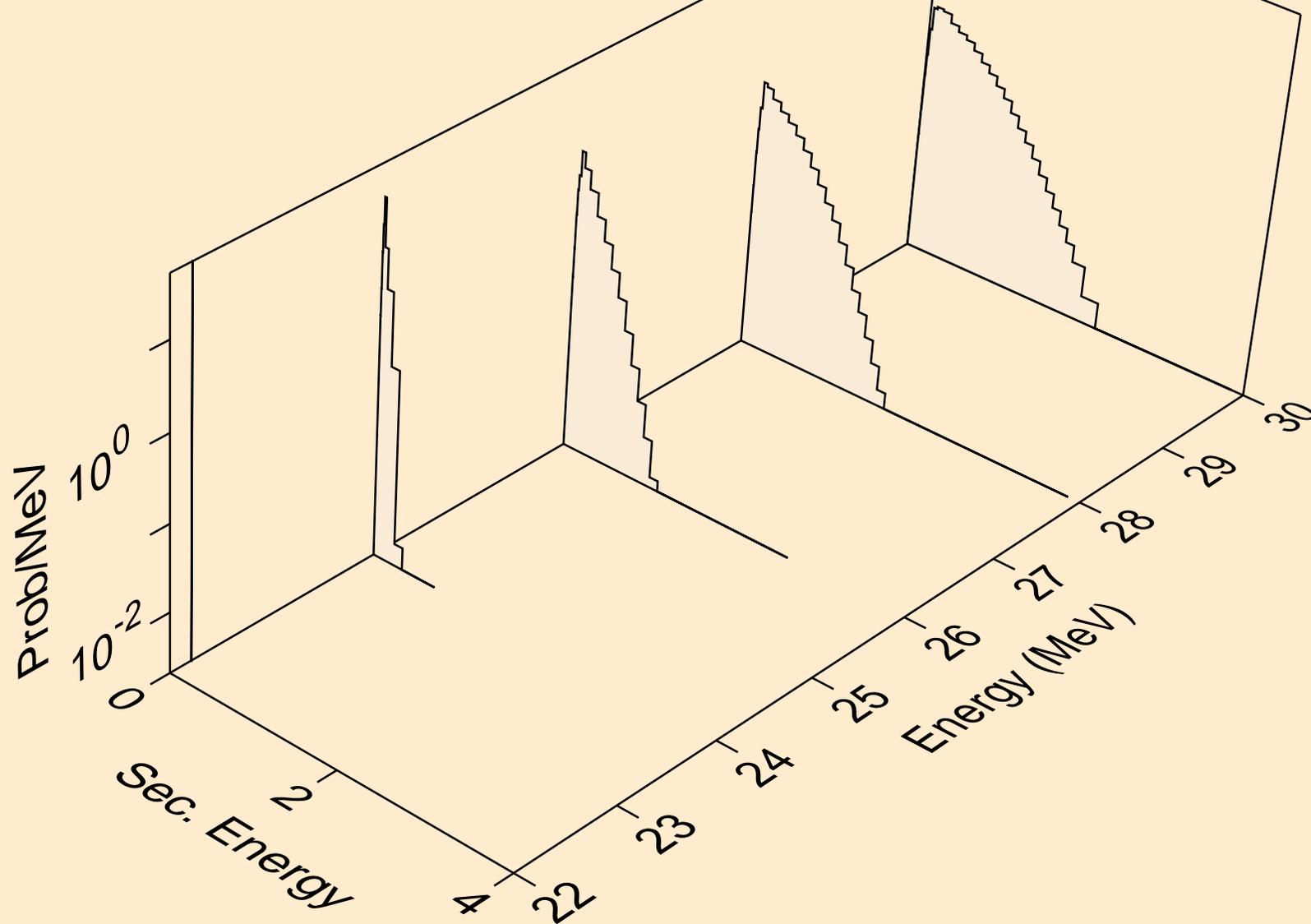
10^{-3}

Sec. Energy

Energy (MeV)

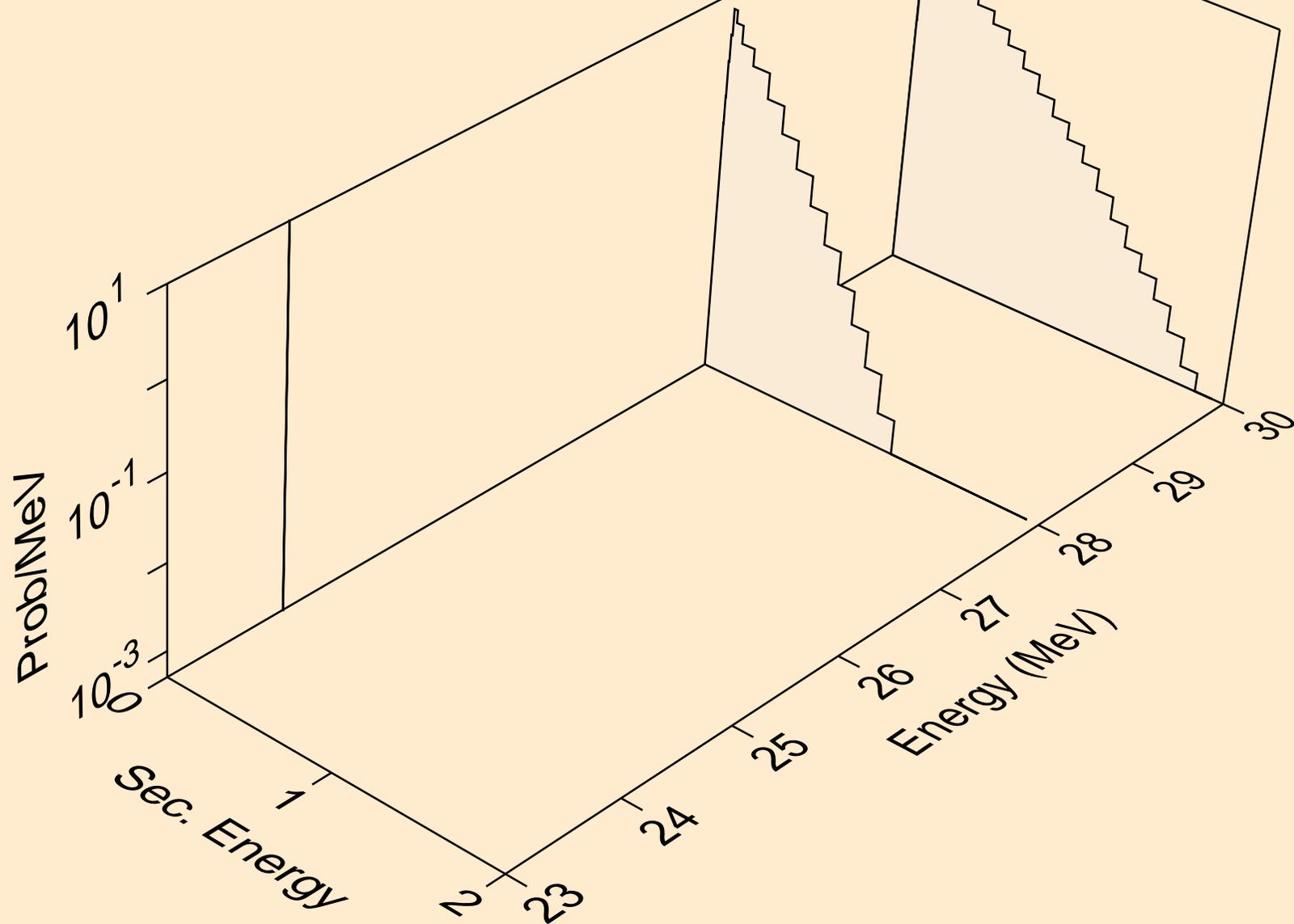CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (a,2n)a

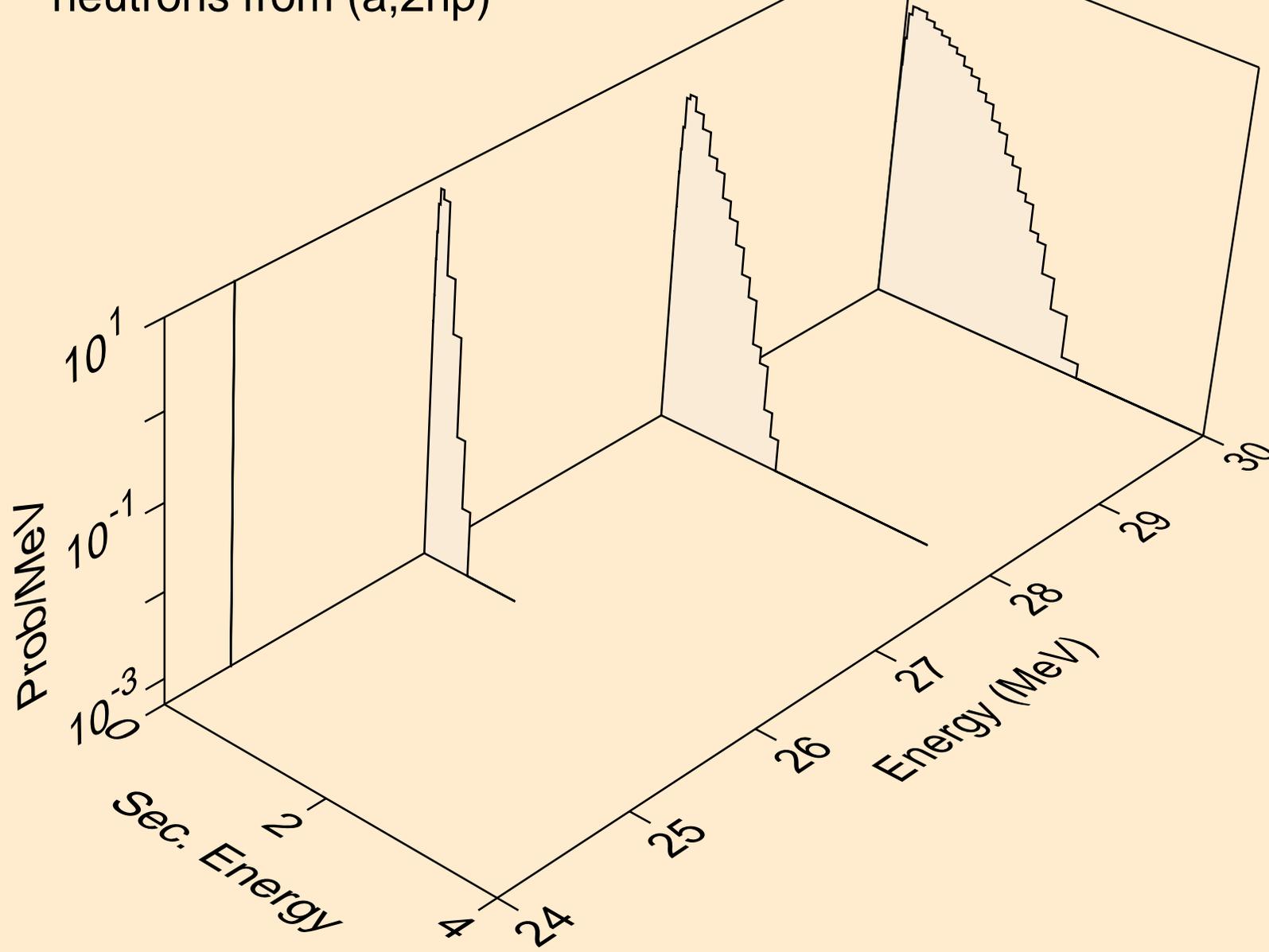CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (a,n*)p

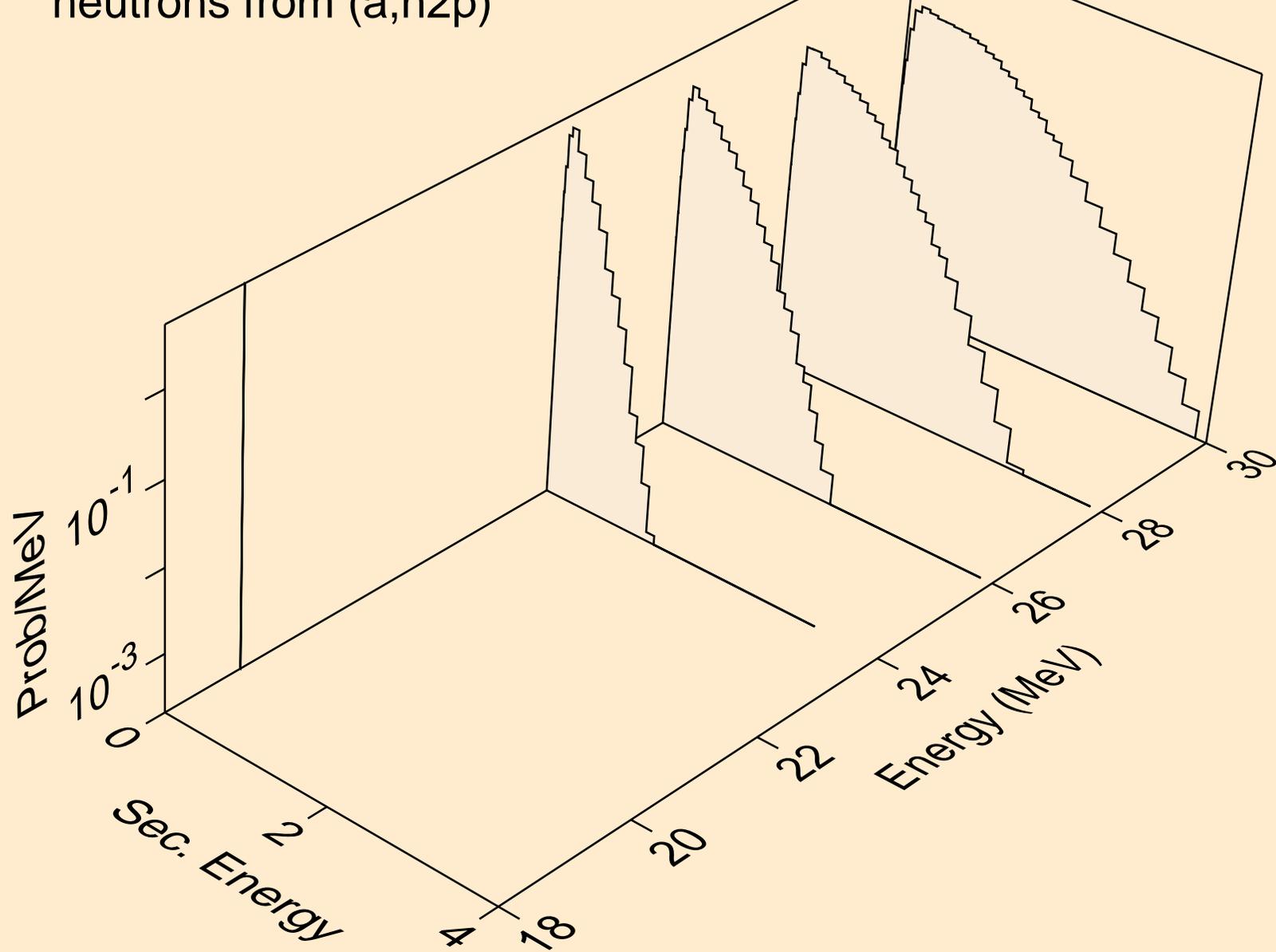CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (a,n*)d

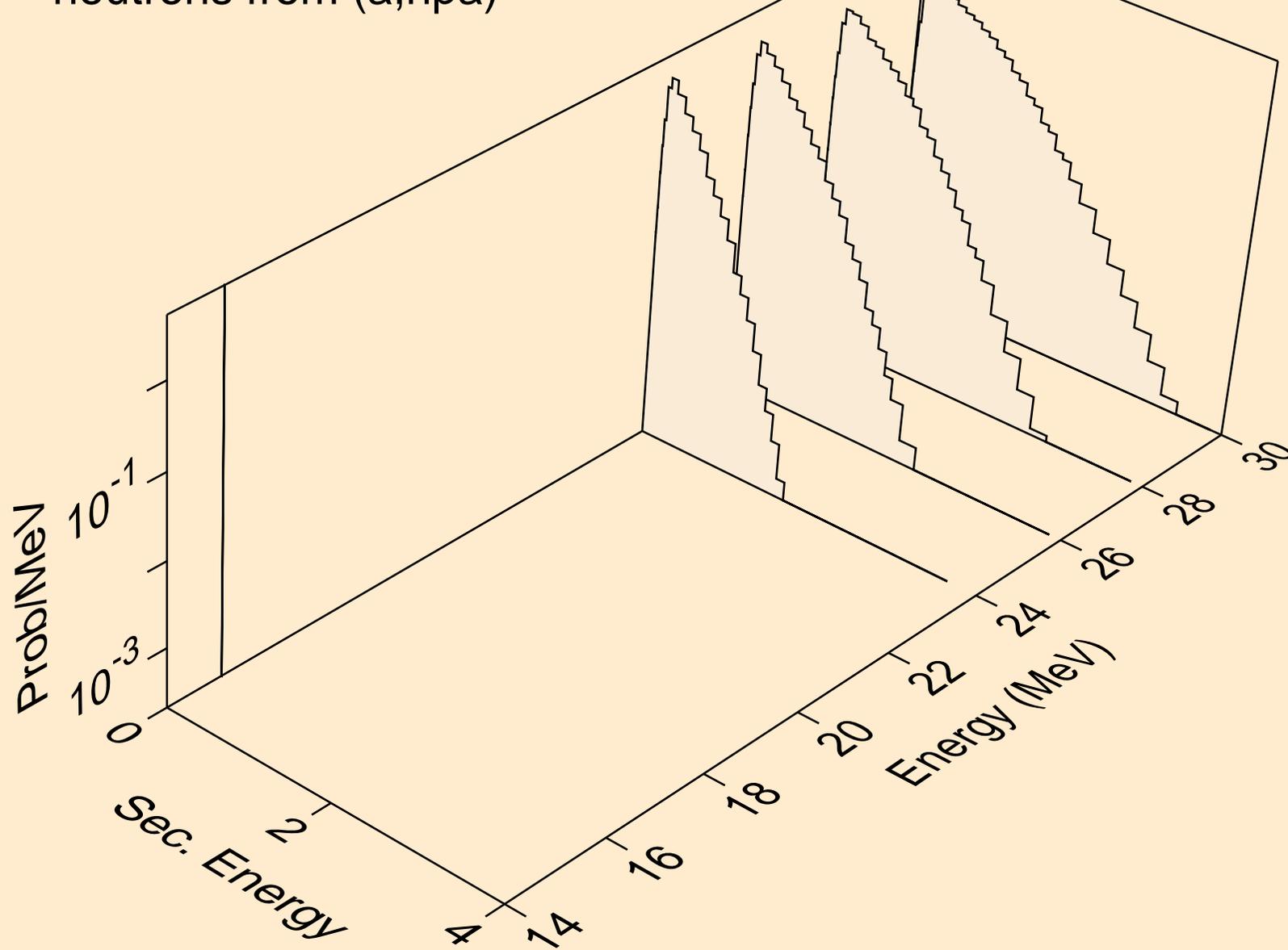CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (a,n*)t

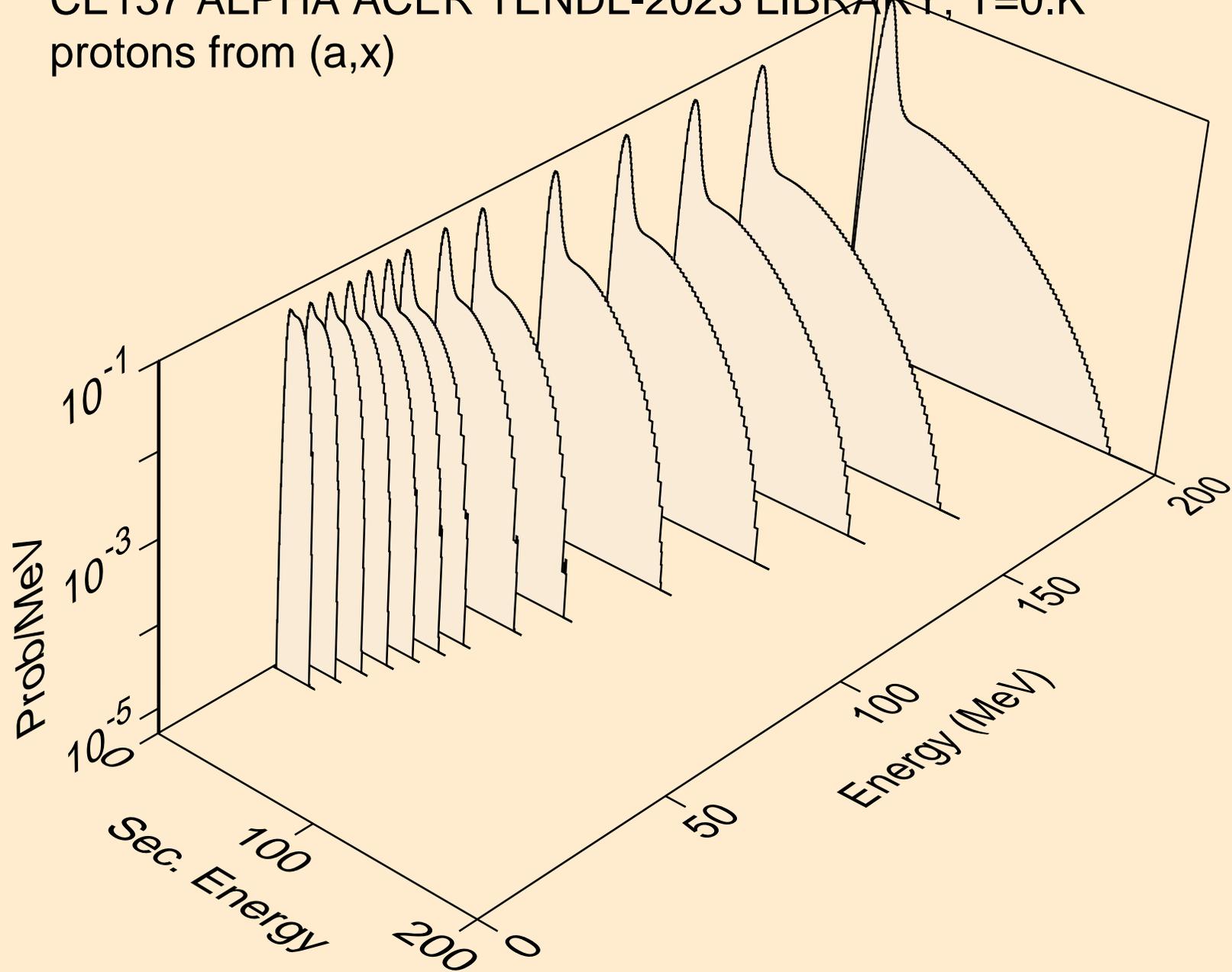CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (a,2np)

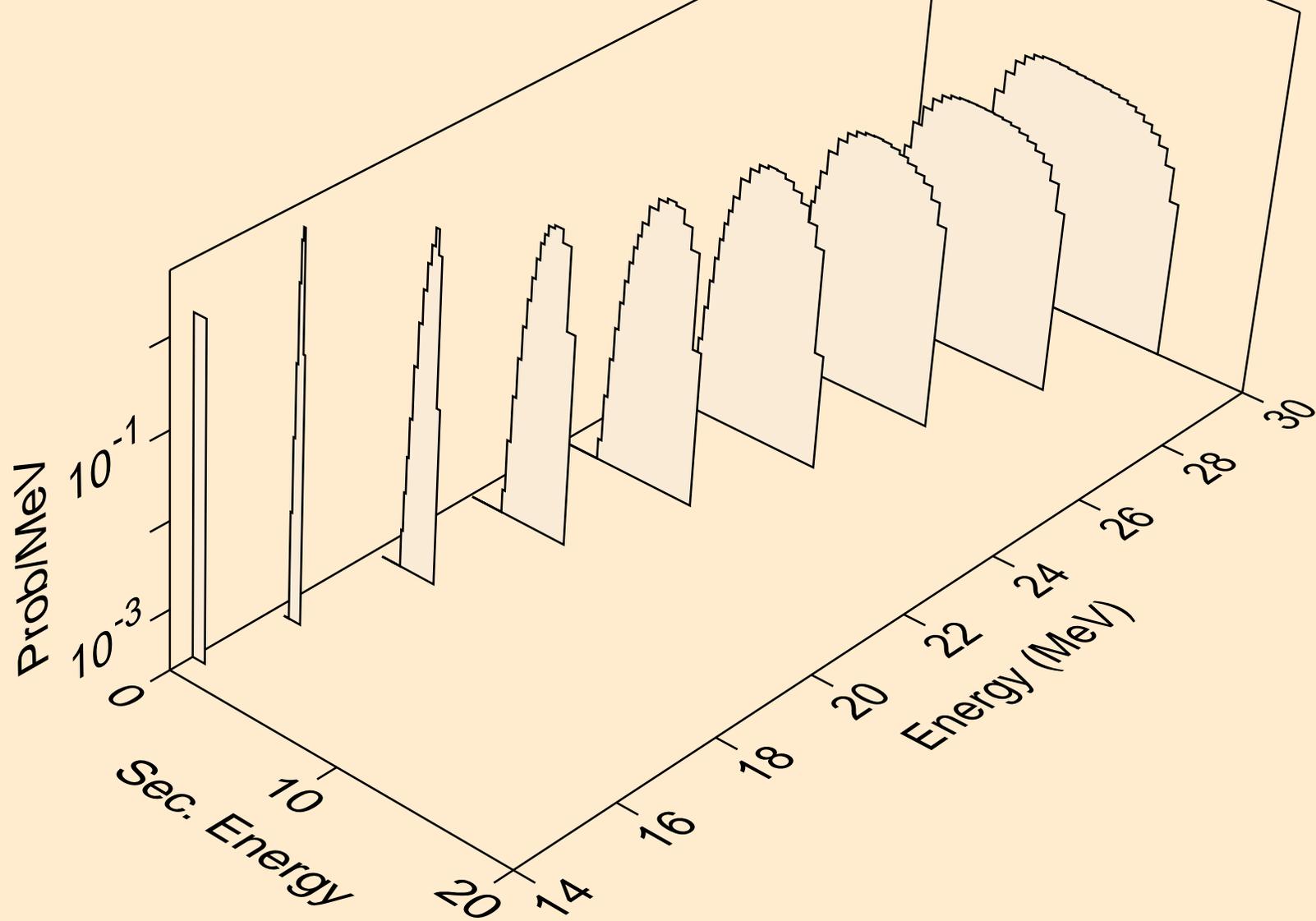CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (a,n2p)

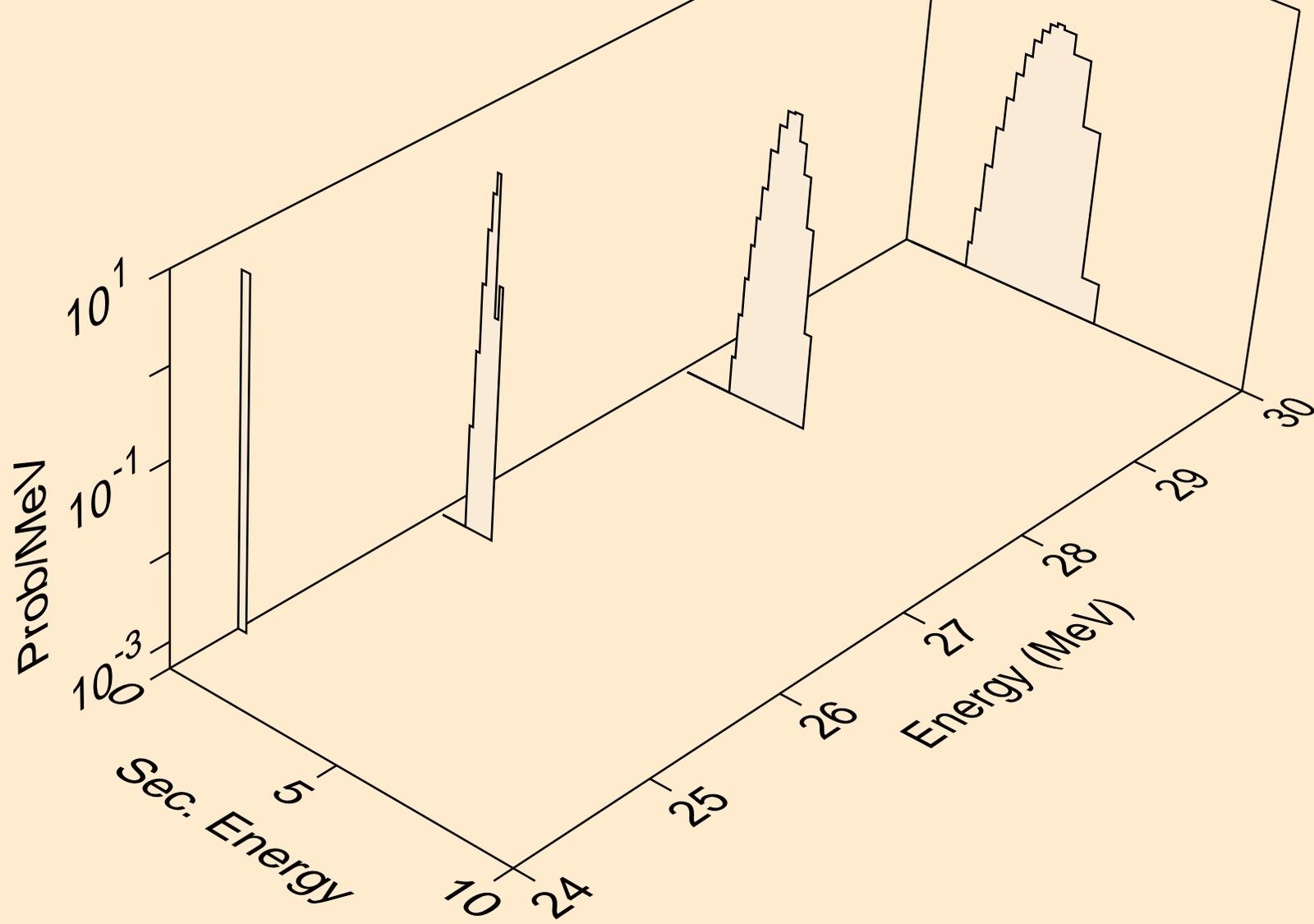CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (a,npa)

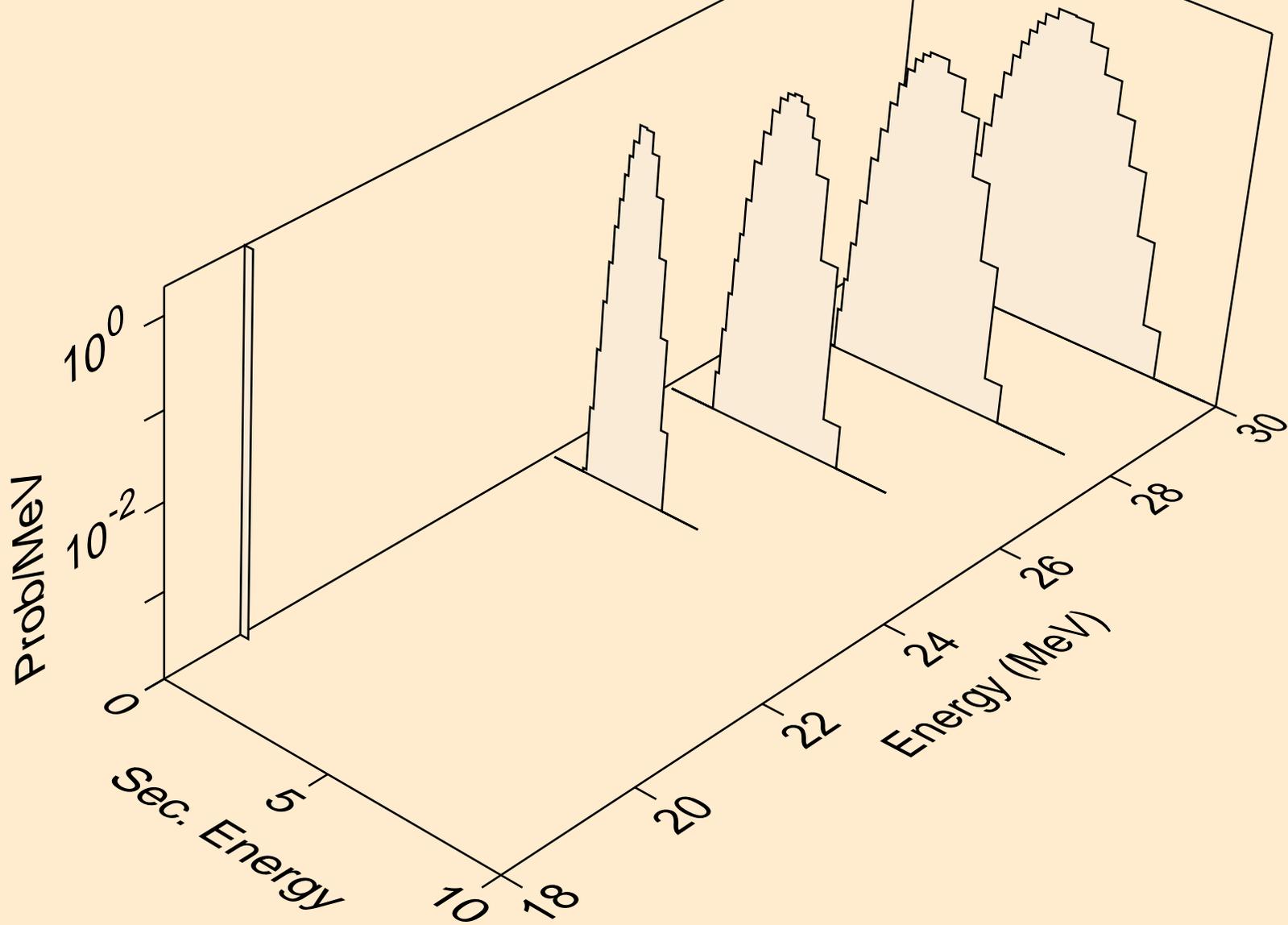CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
protons from (a,x)

CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
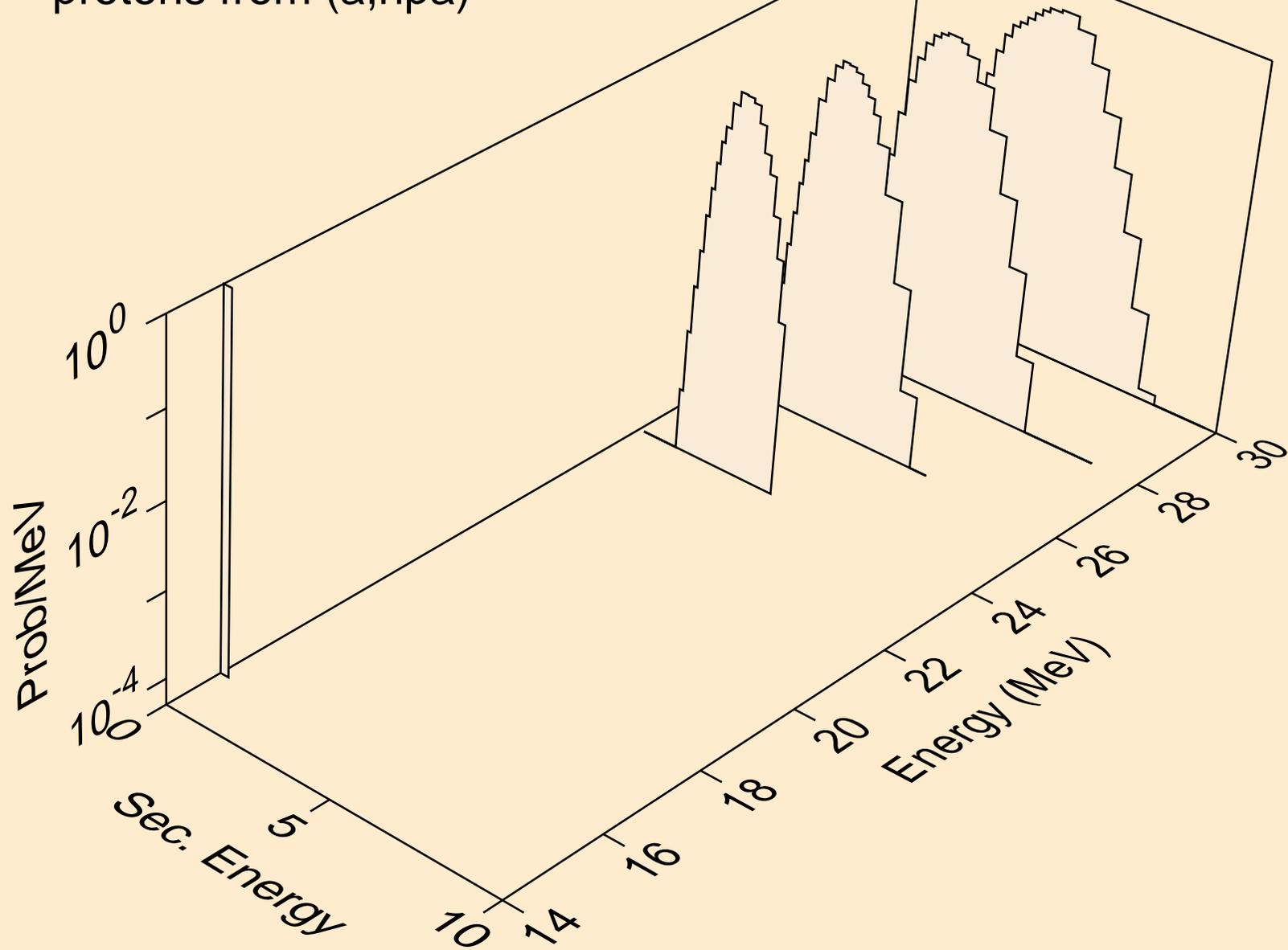protons from (a,n*)p

CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
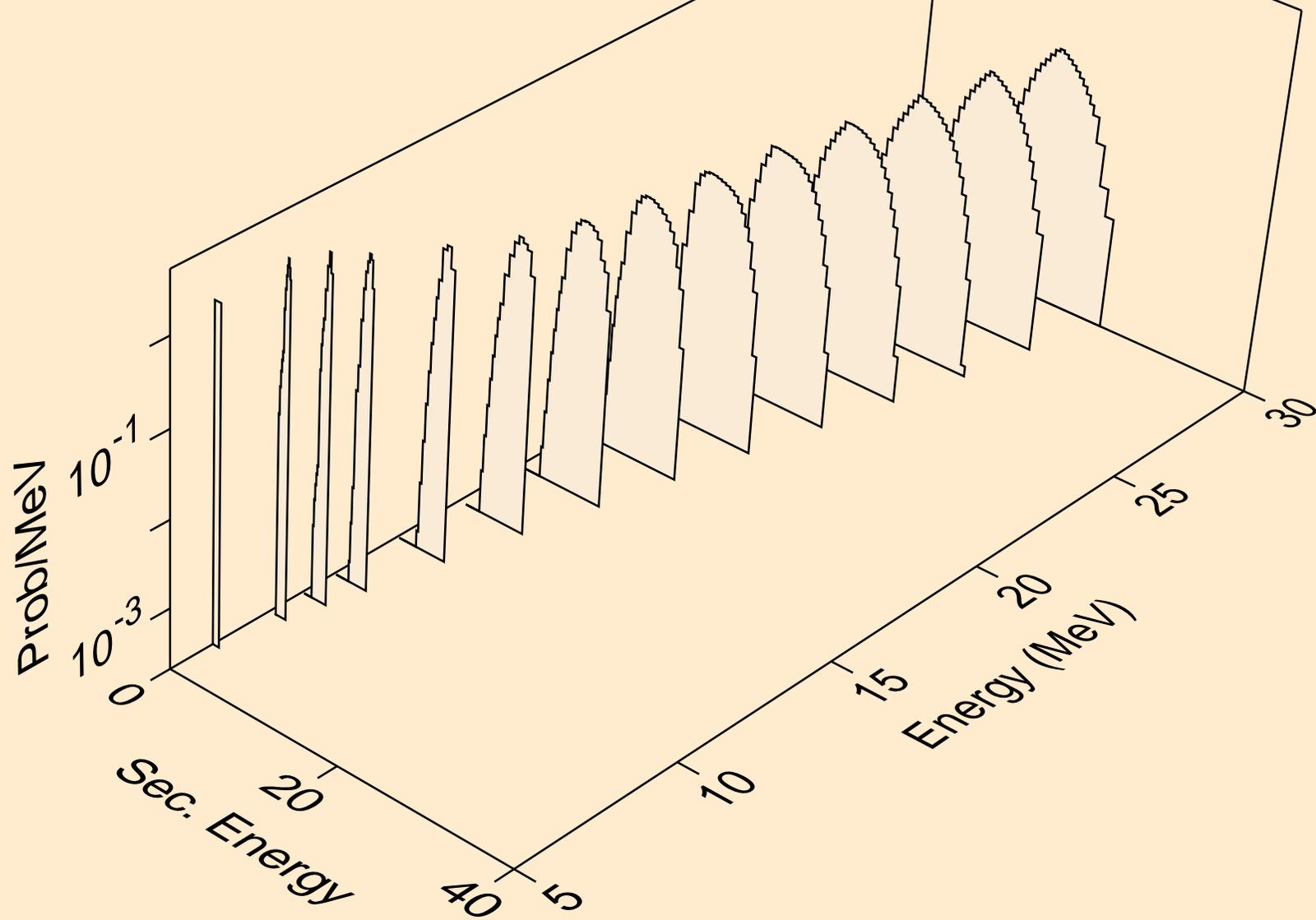protons from (a,2np)

CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
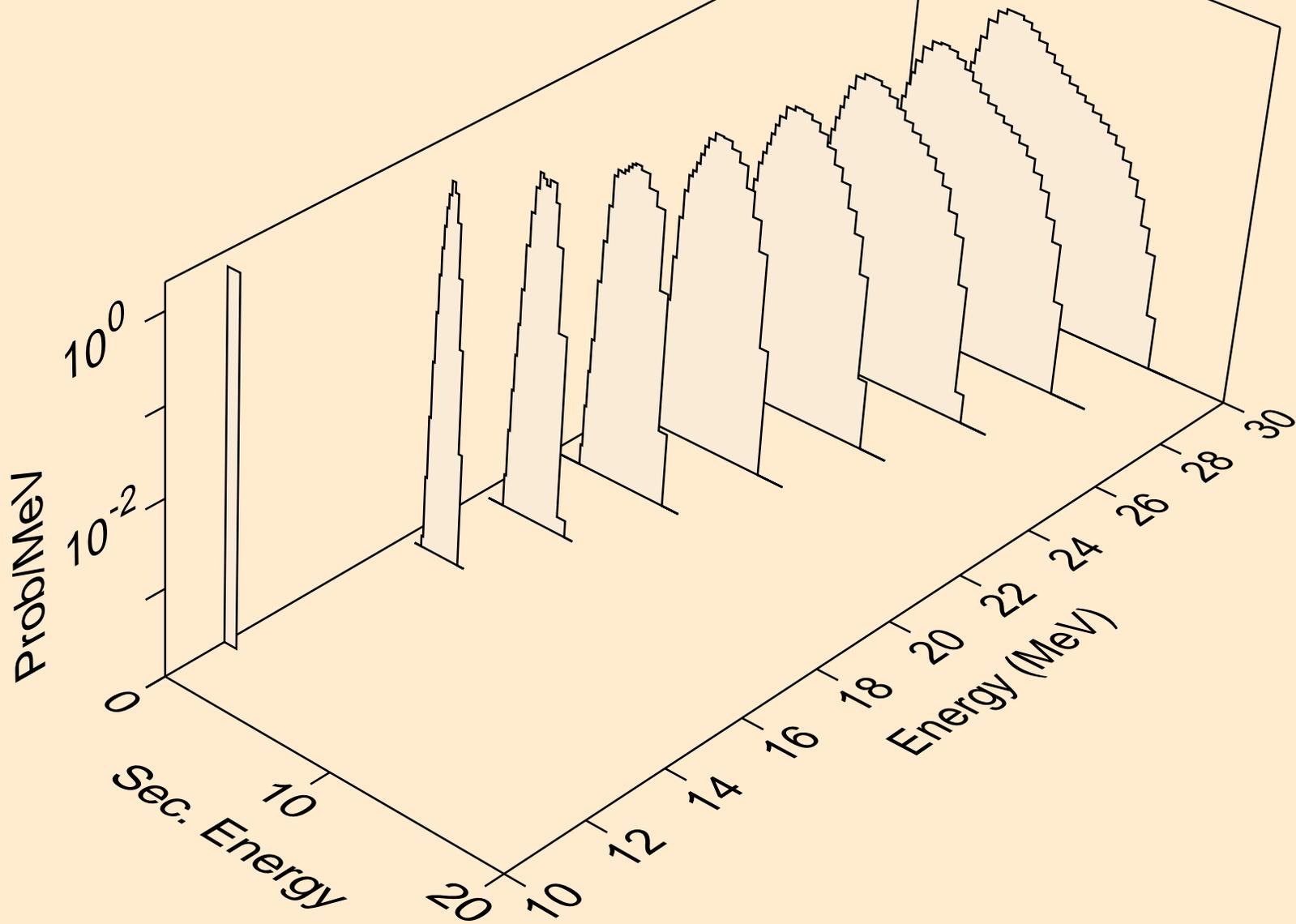protons from (a,n2p)

CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
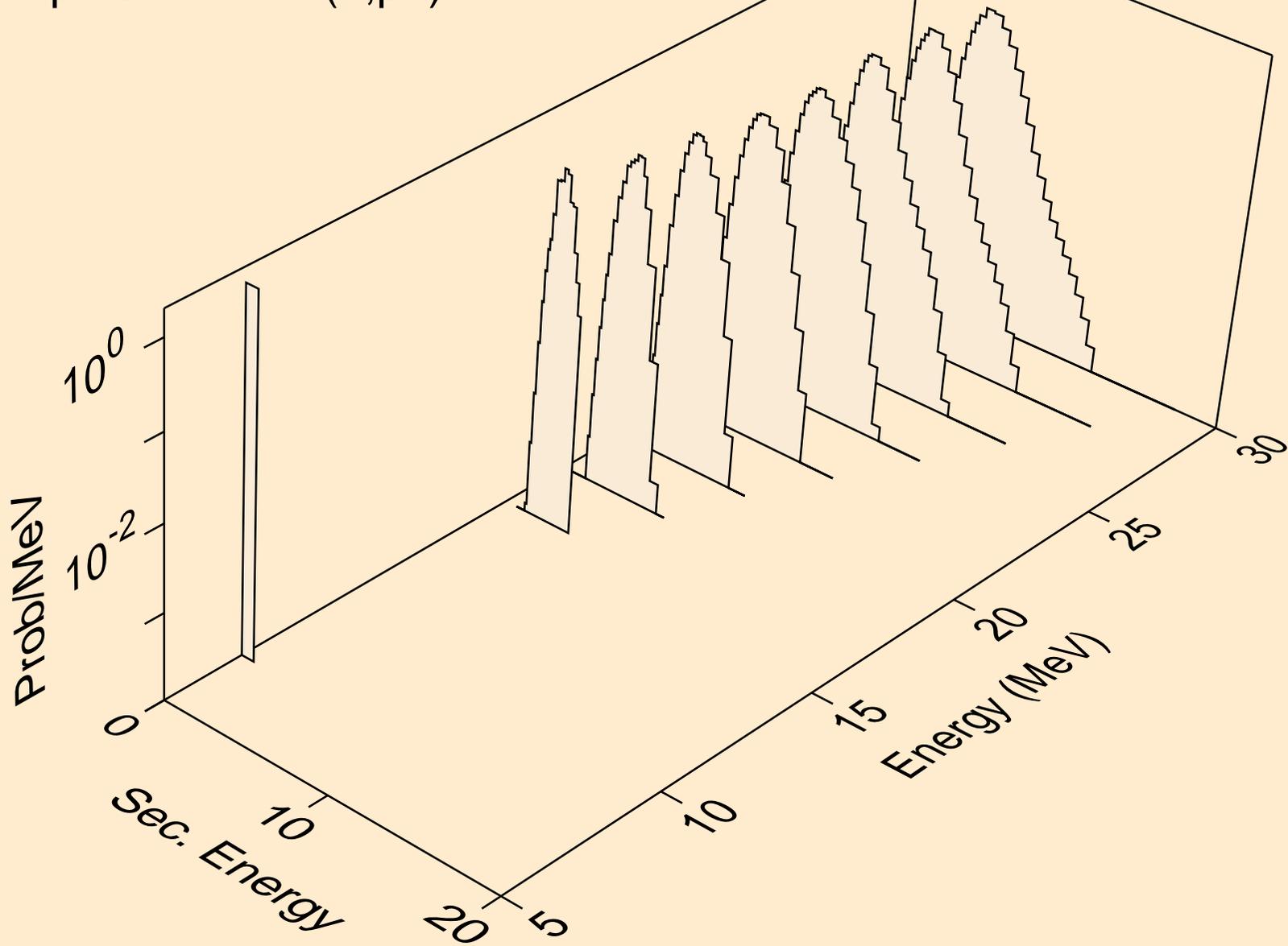protons from (a,npa)

CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
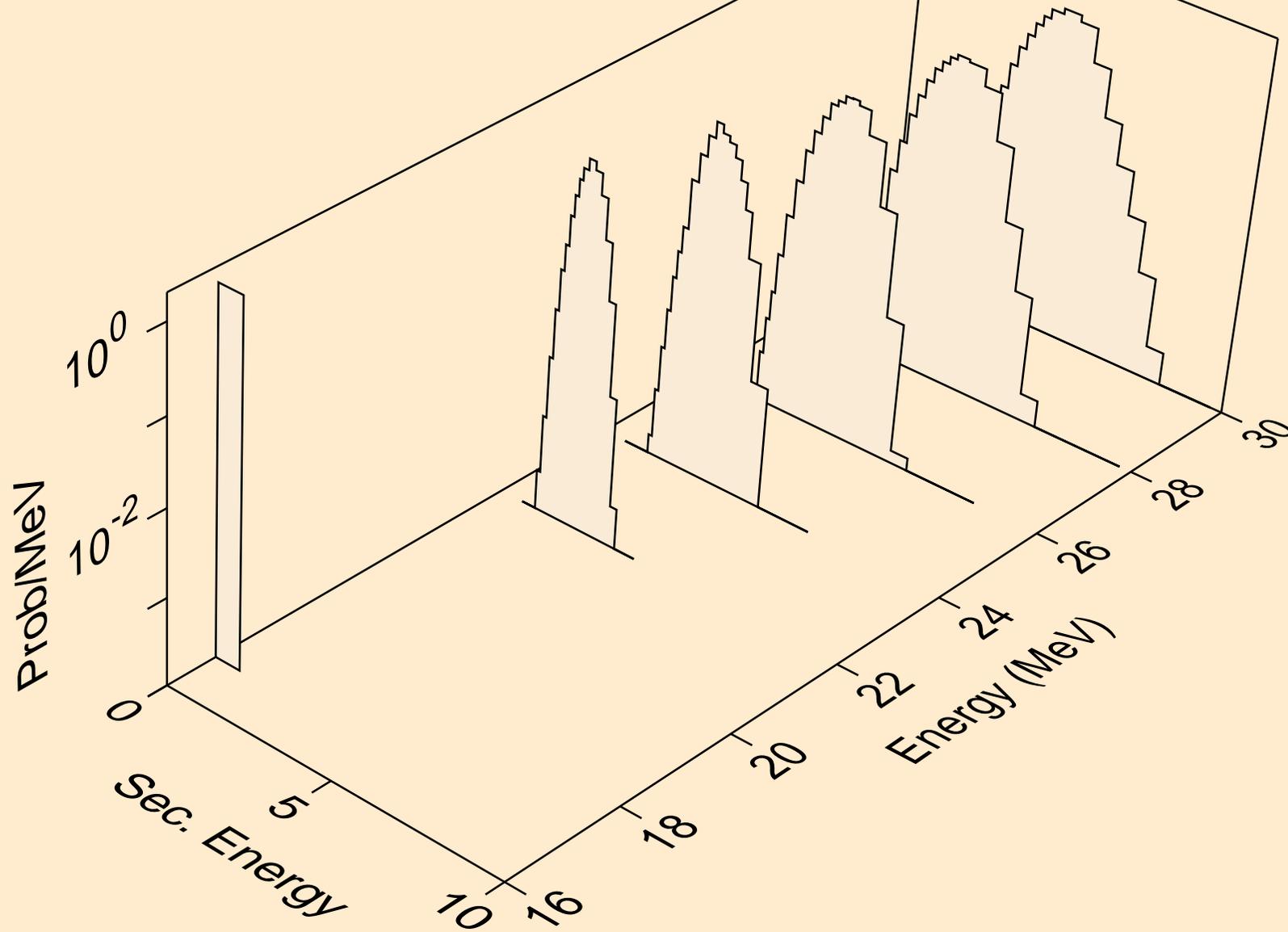protons from (a,p)

CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
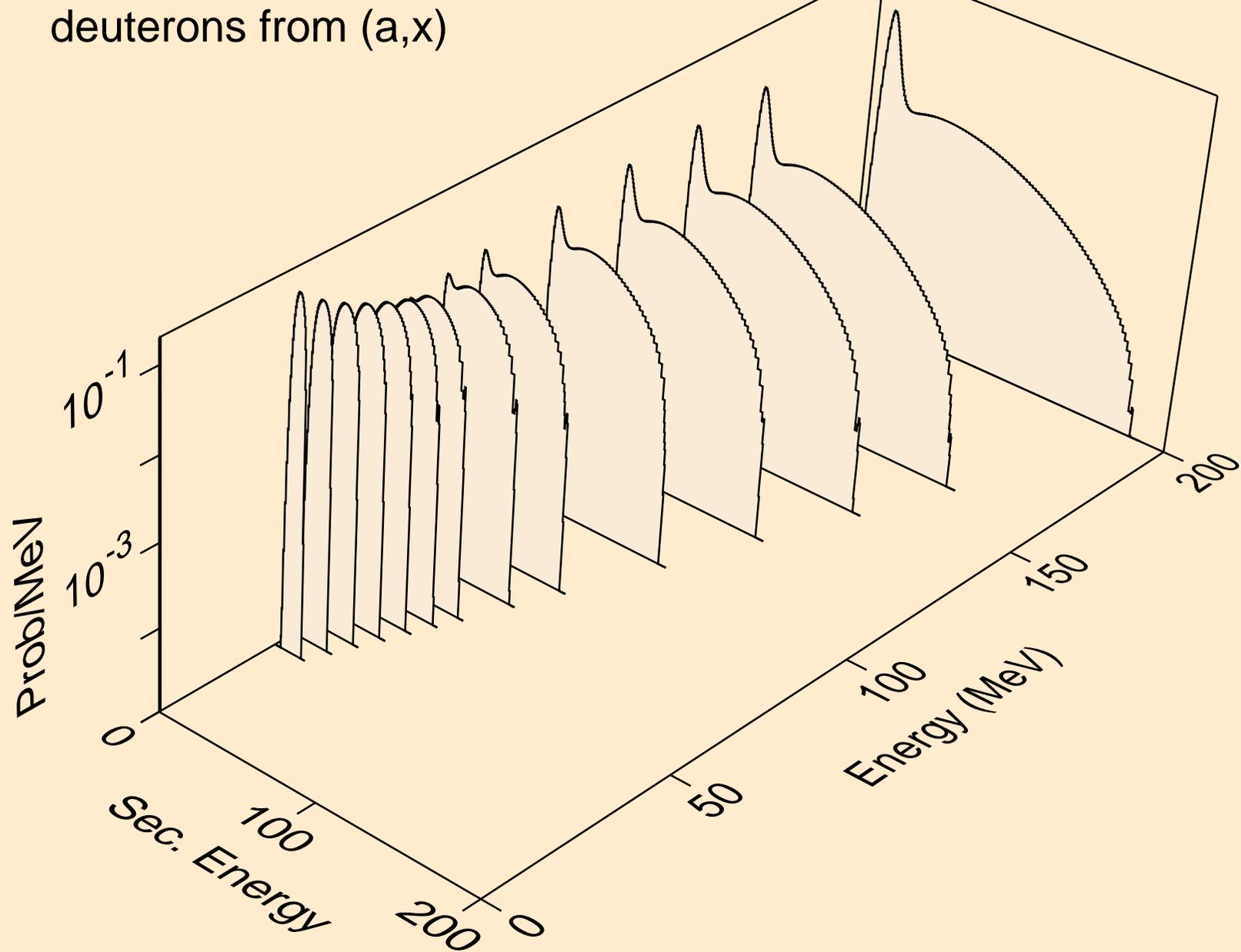protons from (a,2p)

CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
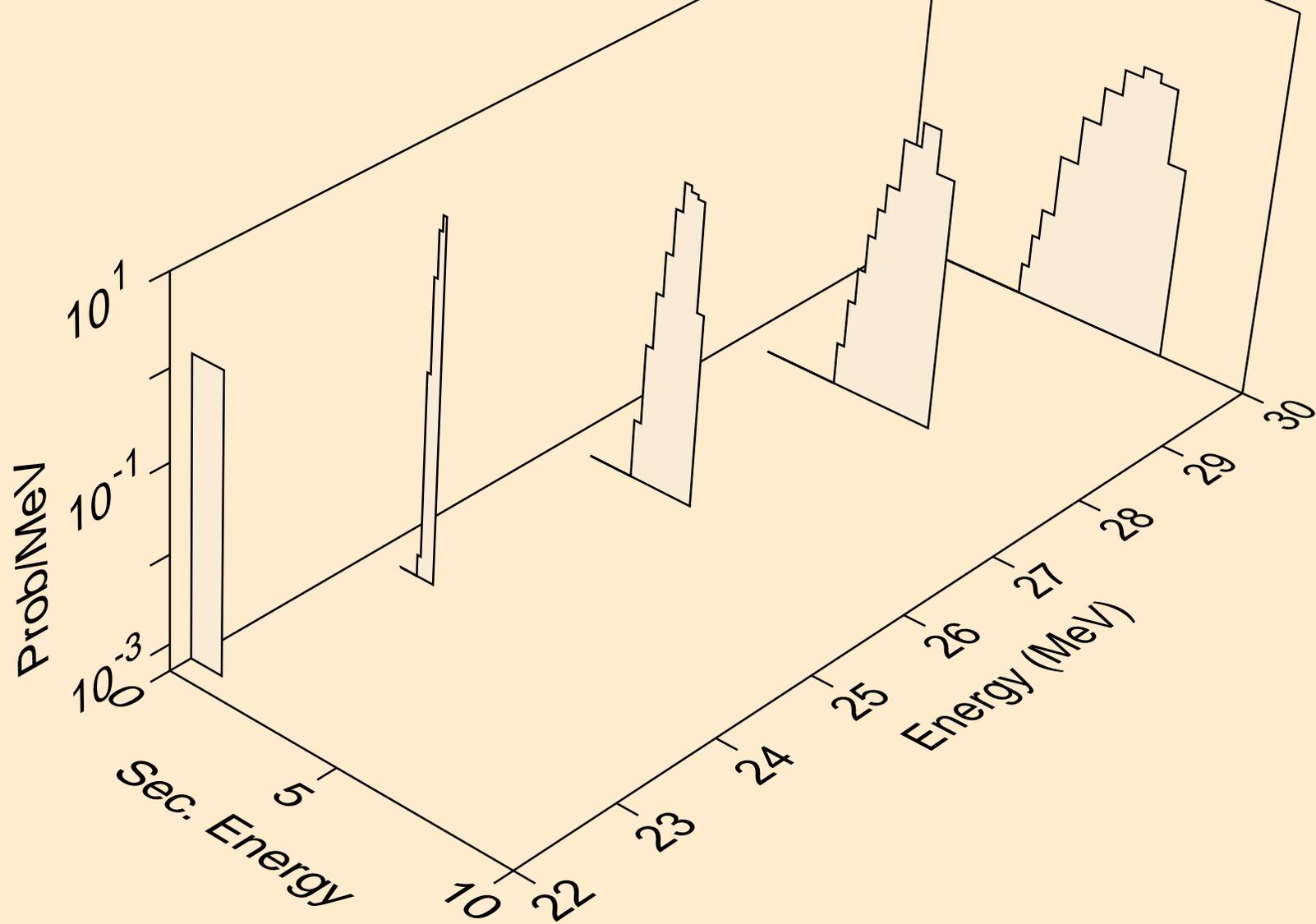protons from (a,pa)

CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
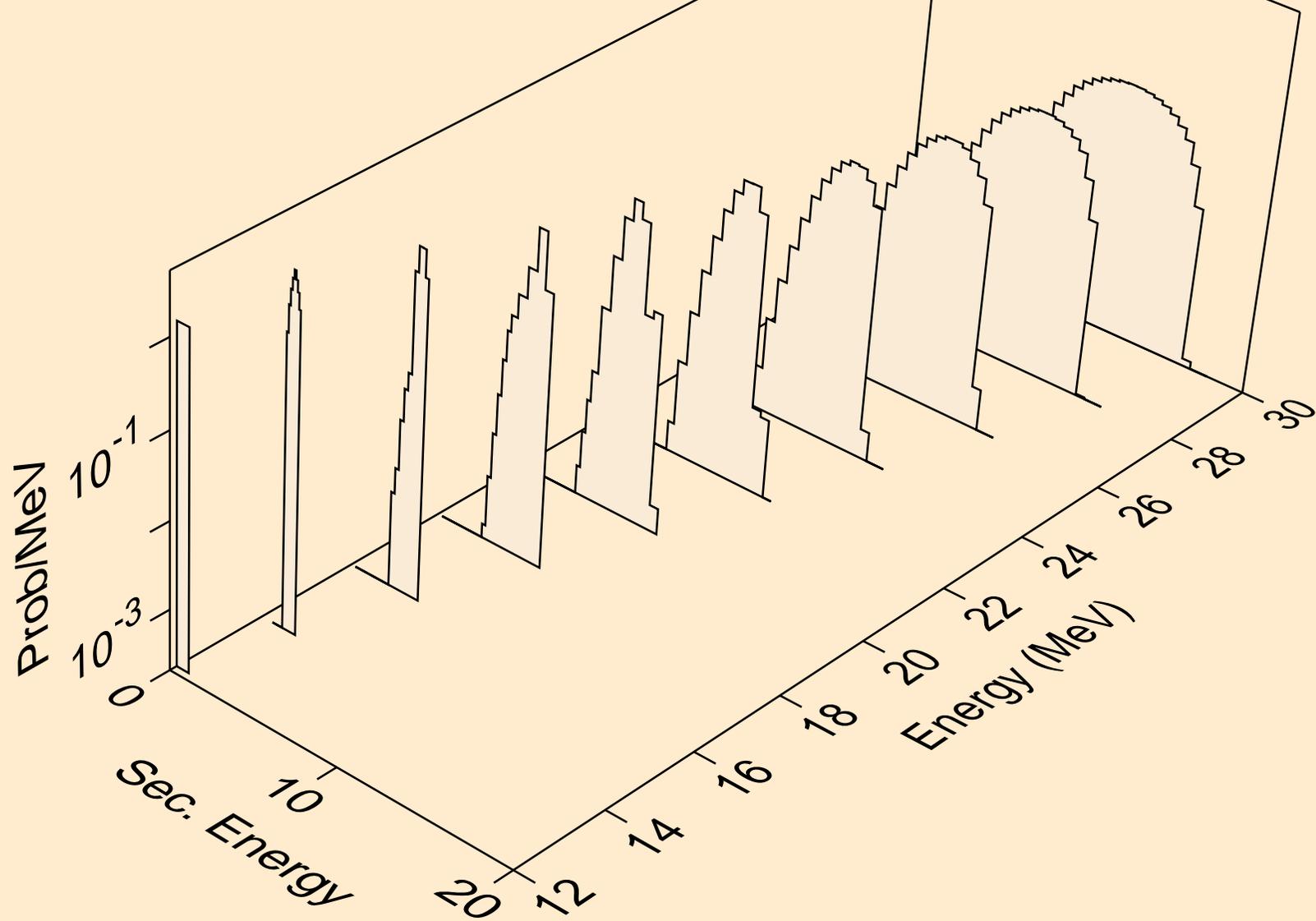protons from (a,pd)

CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
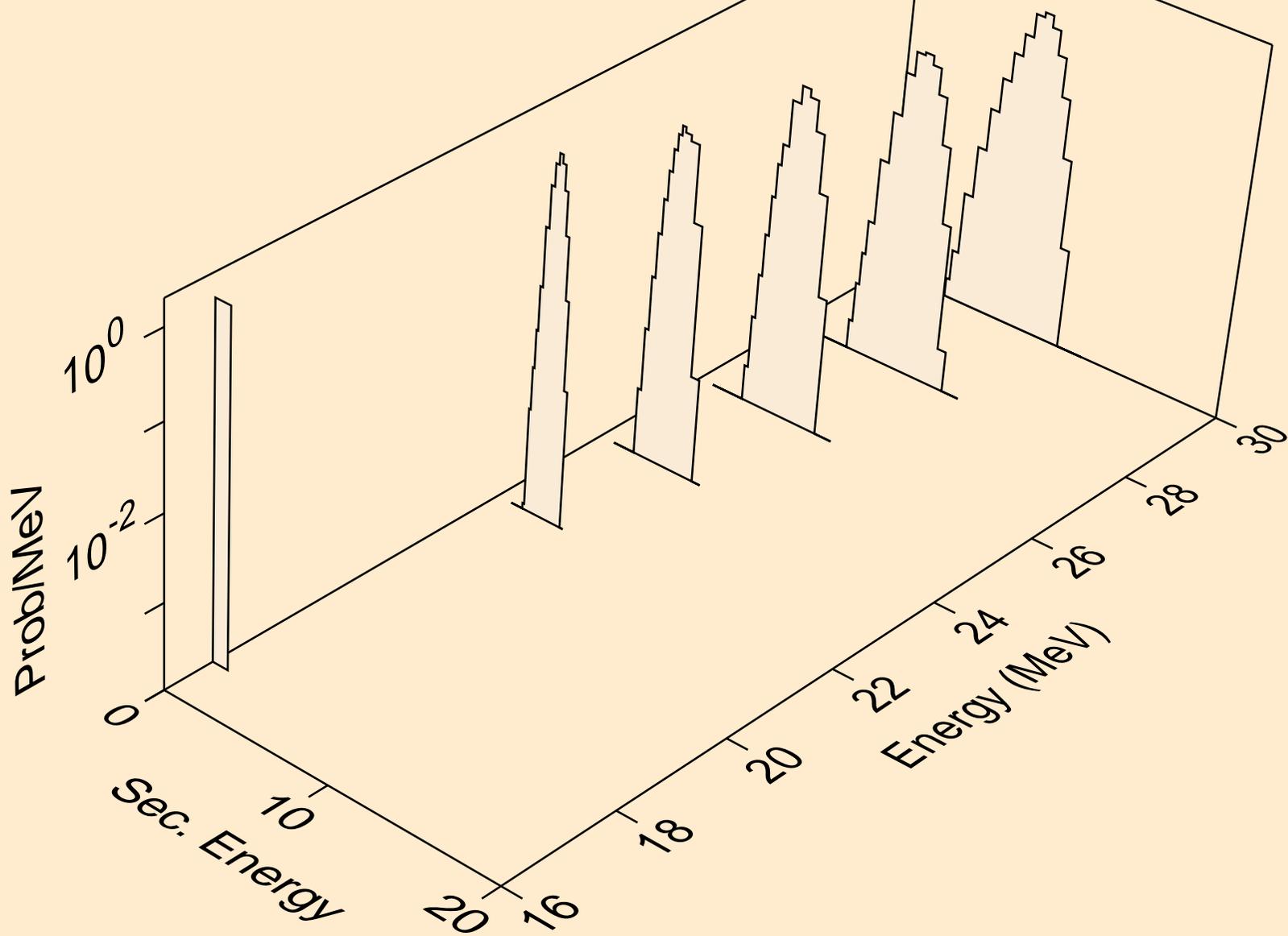deuterons from (a,x)

CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
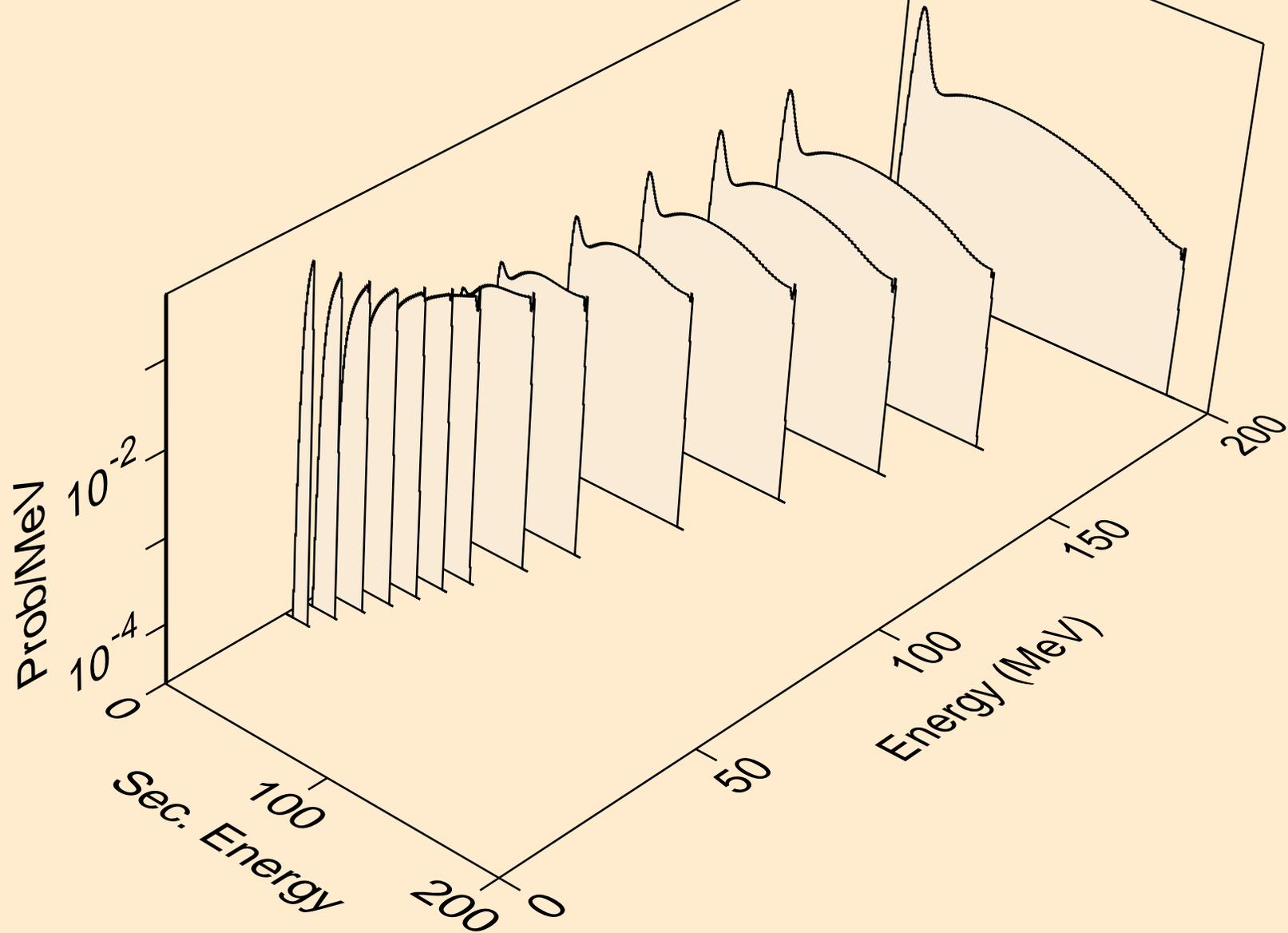deuterons from (a,n*)d

CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (a,d)

CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
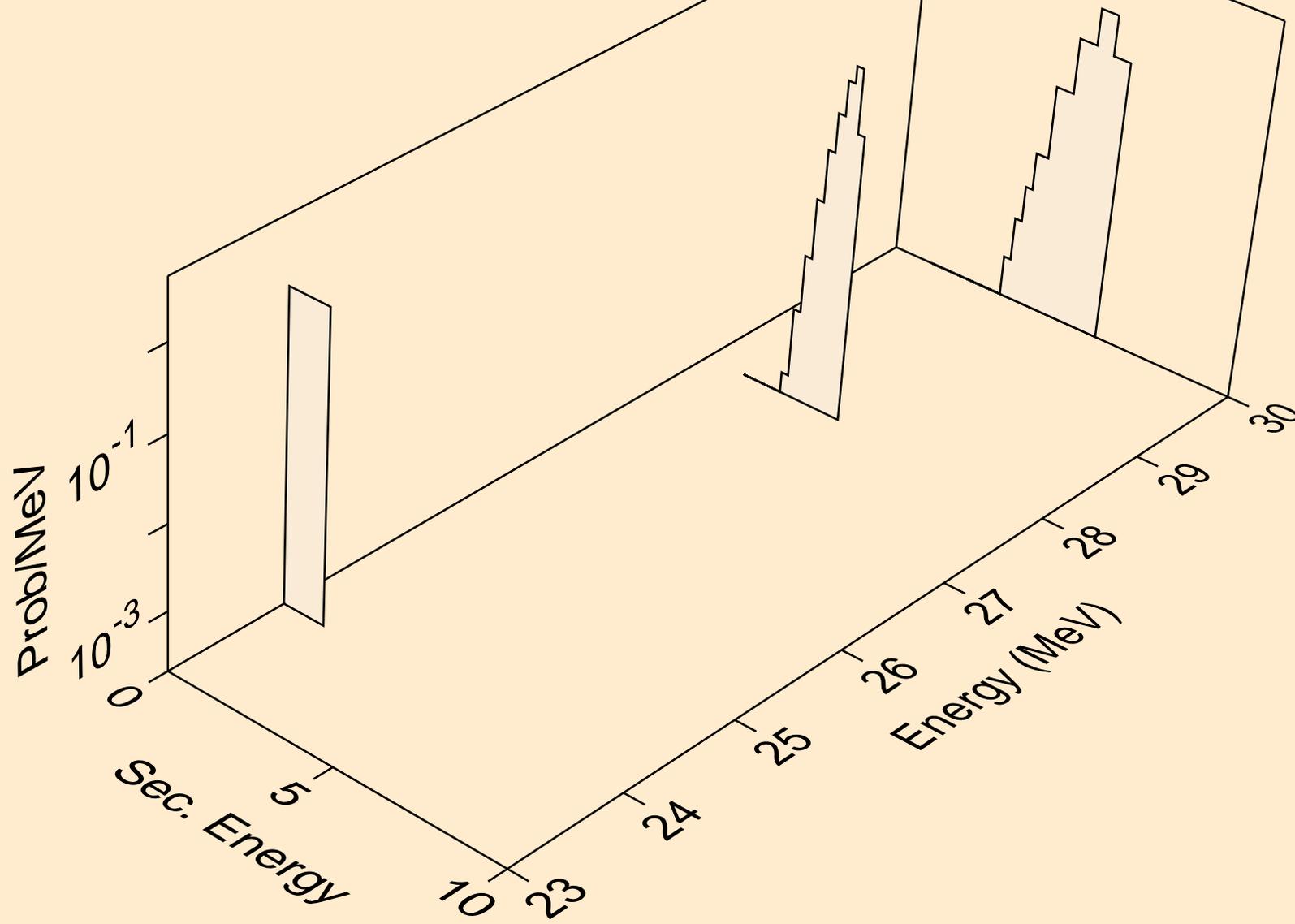deuterons from (a,pd)

CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
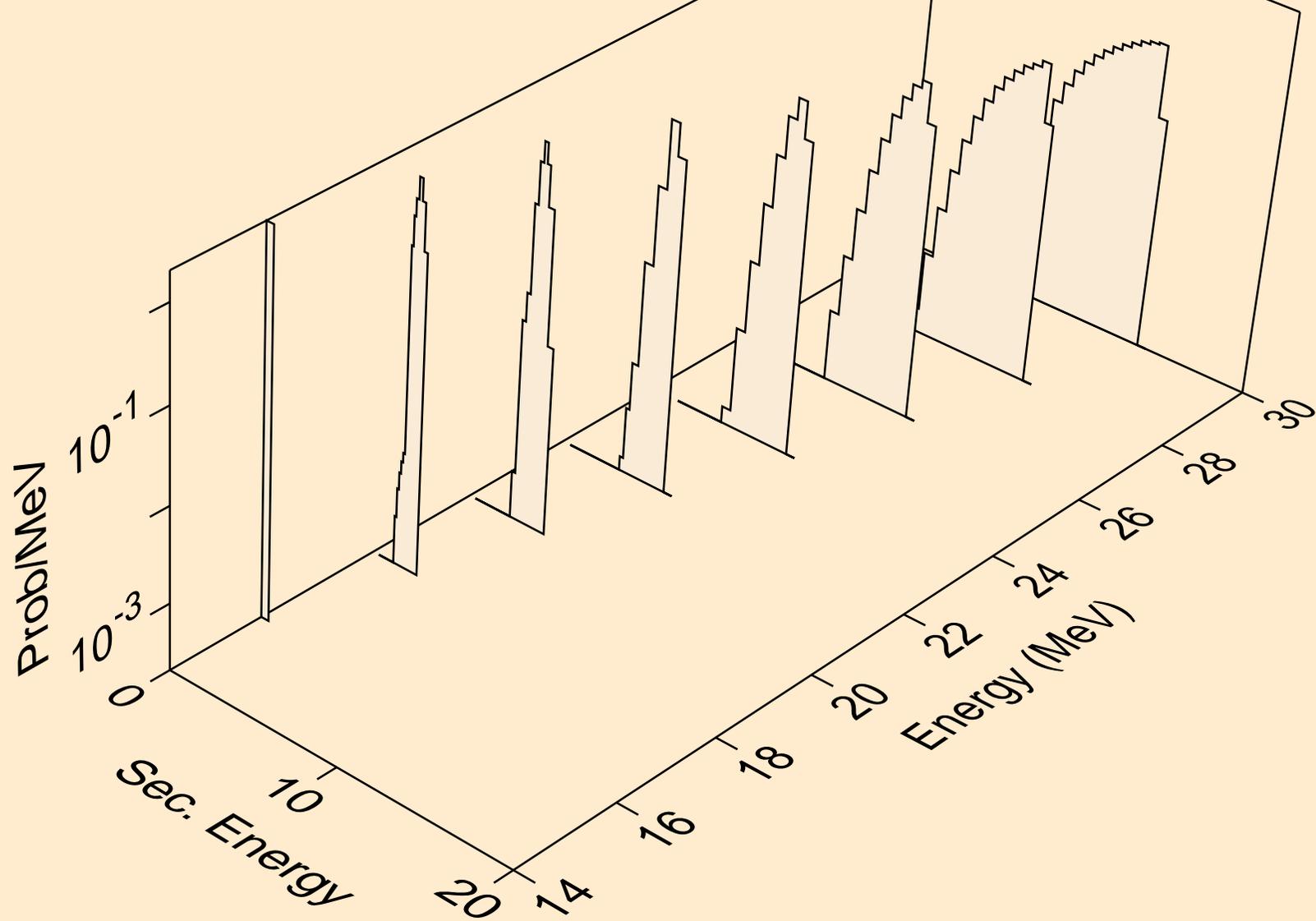tritons from (a,x)
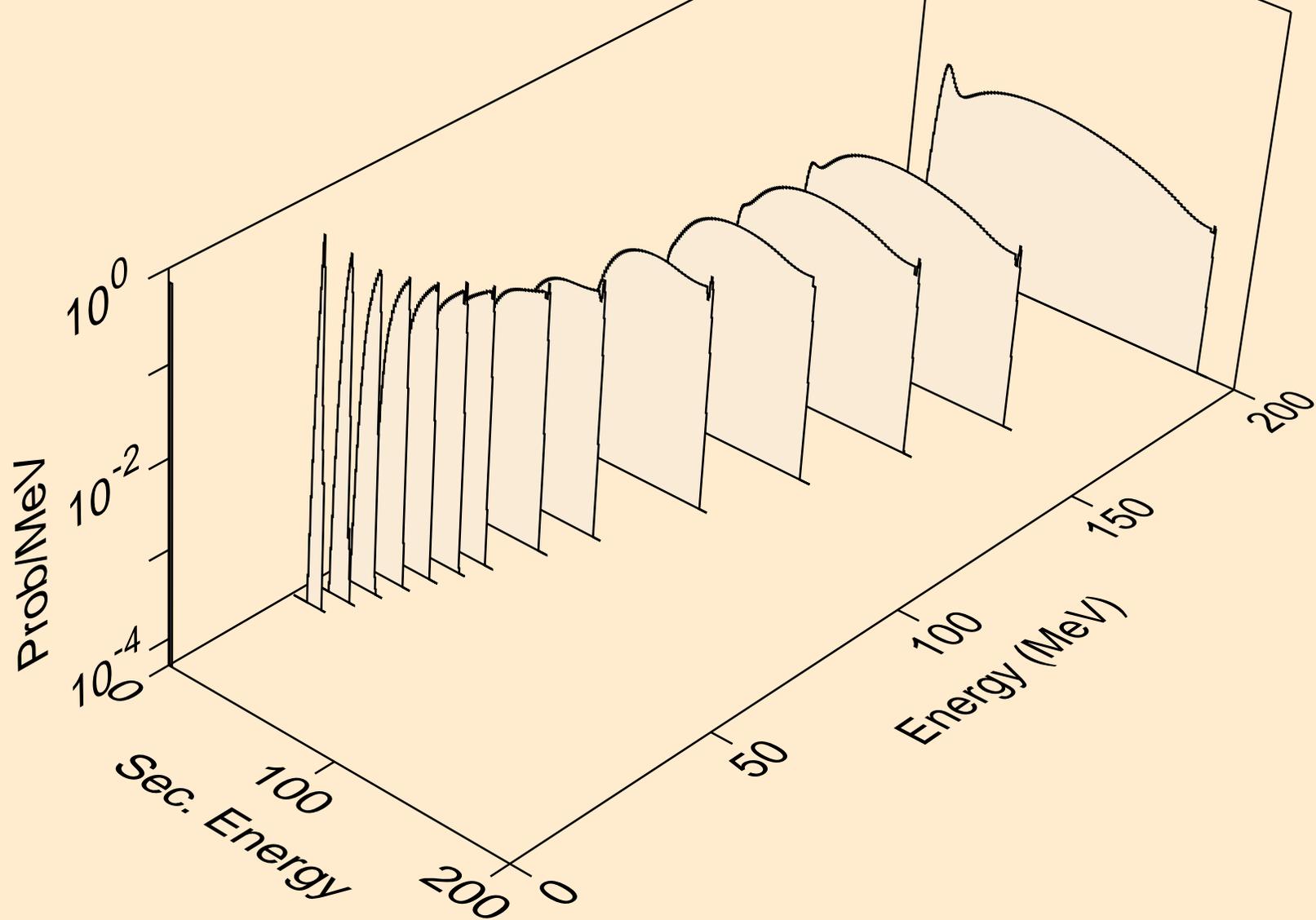
CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
tritons from (a,n*)t

CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
tritons from (a,t)

CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
he3s from (a,x)

CE137 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
he3s from (a,he3)