SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Principal cross sections

- total
- absorption
- elastic
- gamma production

Cross section (barns)

Energy (MeV)

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Heating

heating

Heating (MeV/reaction)

Energy (MeV)

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Principal cross sections
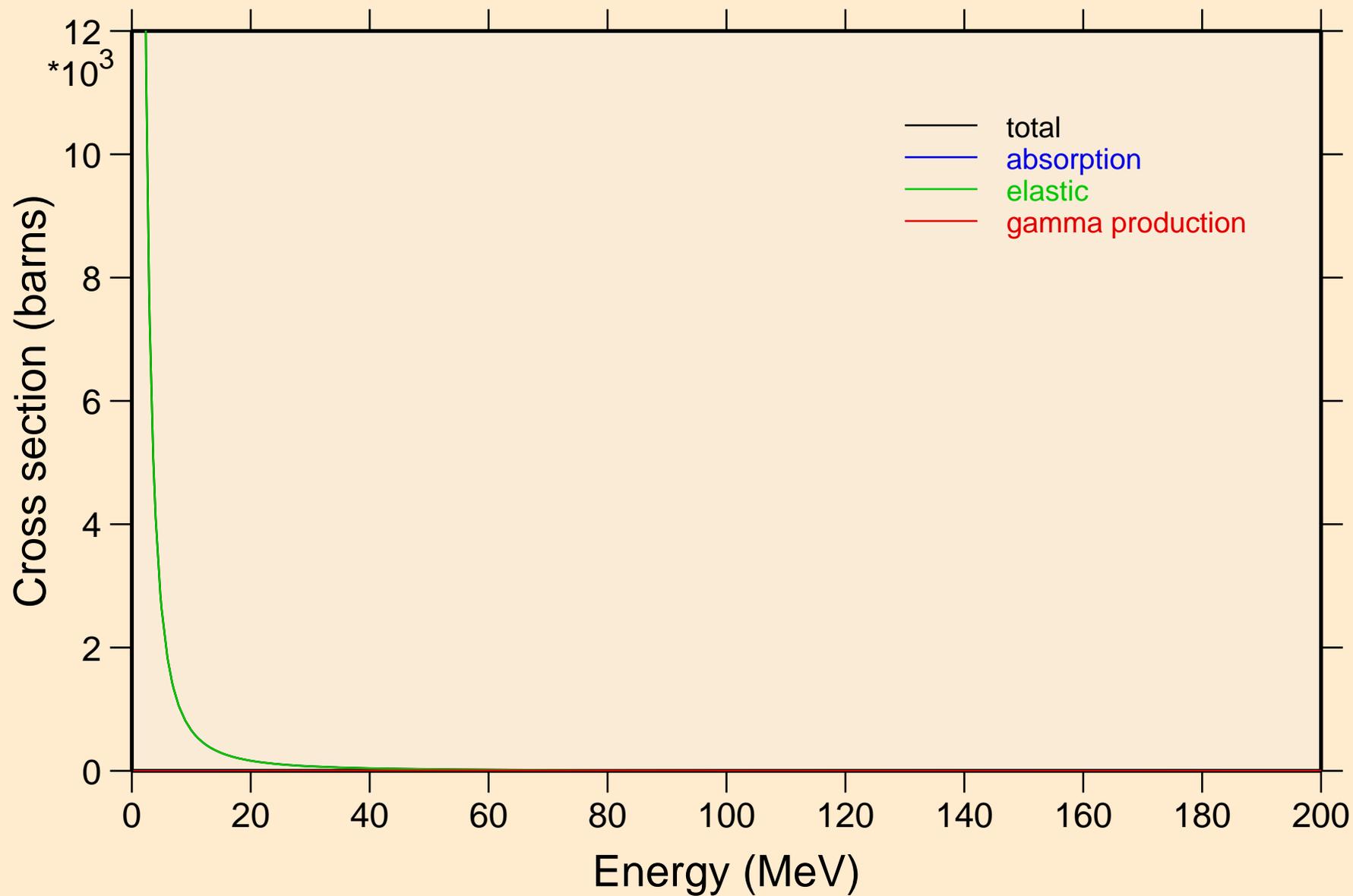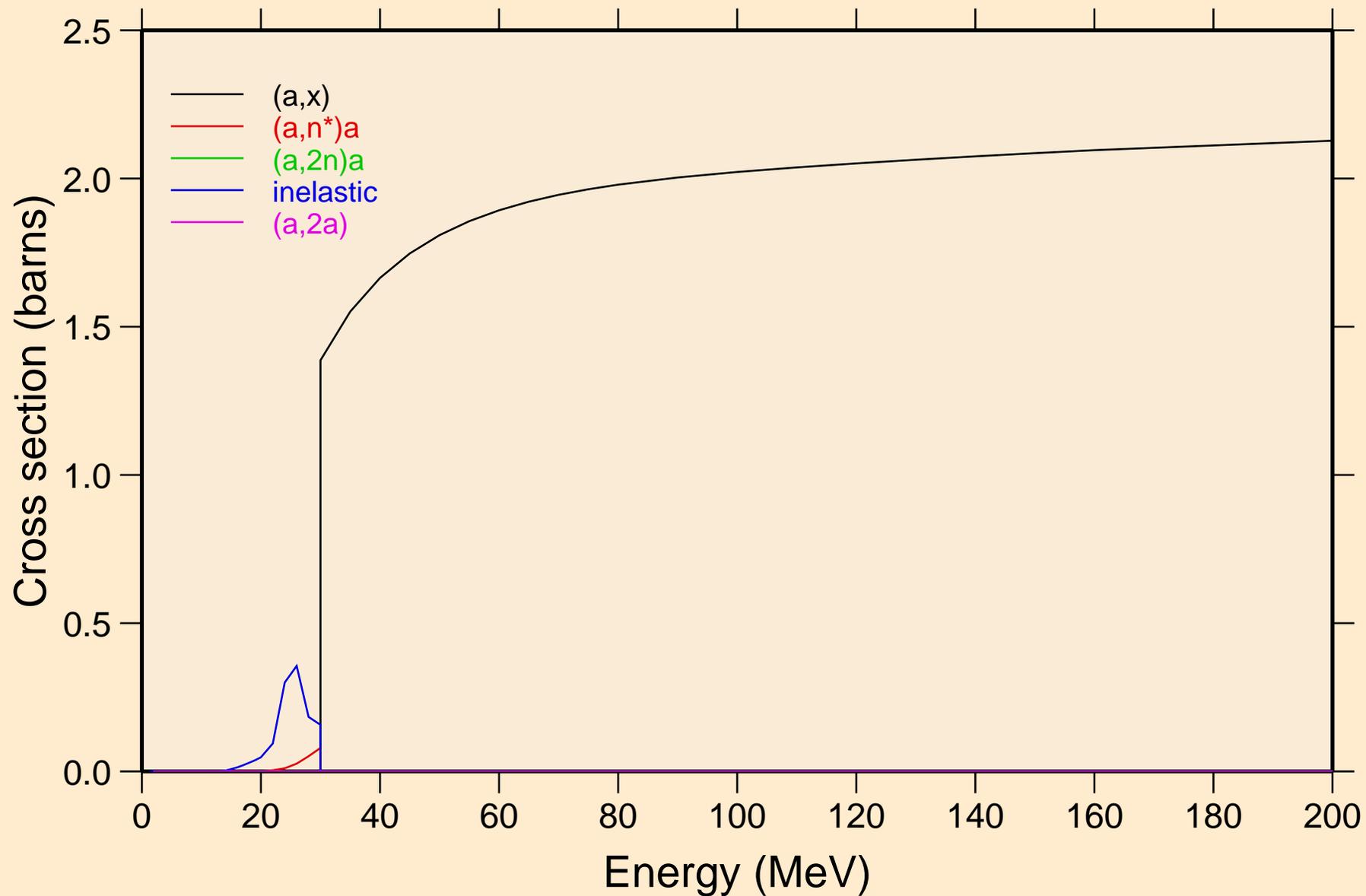
Cross section (barns)

Energy (MeV)

total
absorption
elastic
gamma production

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Heating

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions

Legend:
- (a,x)
- (a,n*)a
- (a,2n)a
- inelastic
- (a,2a)

X-axis: Energy (MeV)
Y-axis: Cross section (barns)
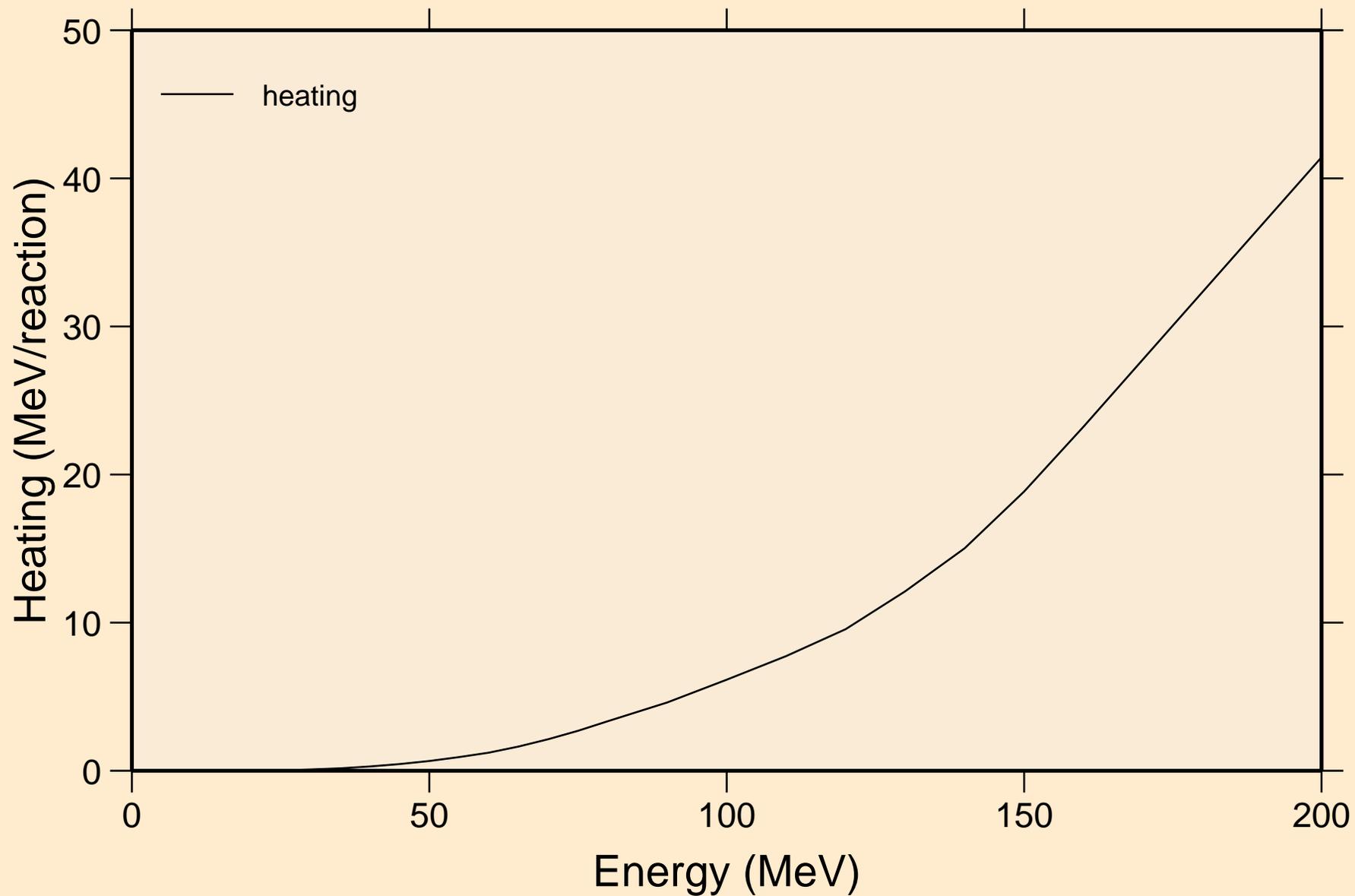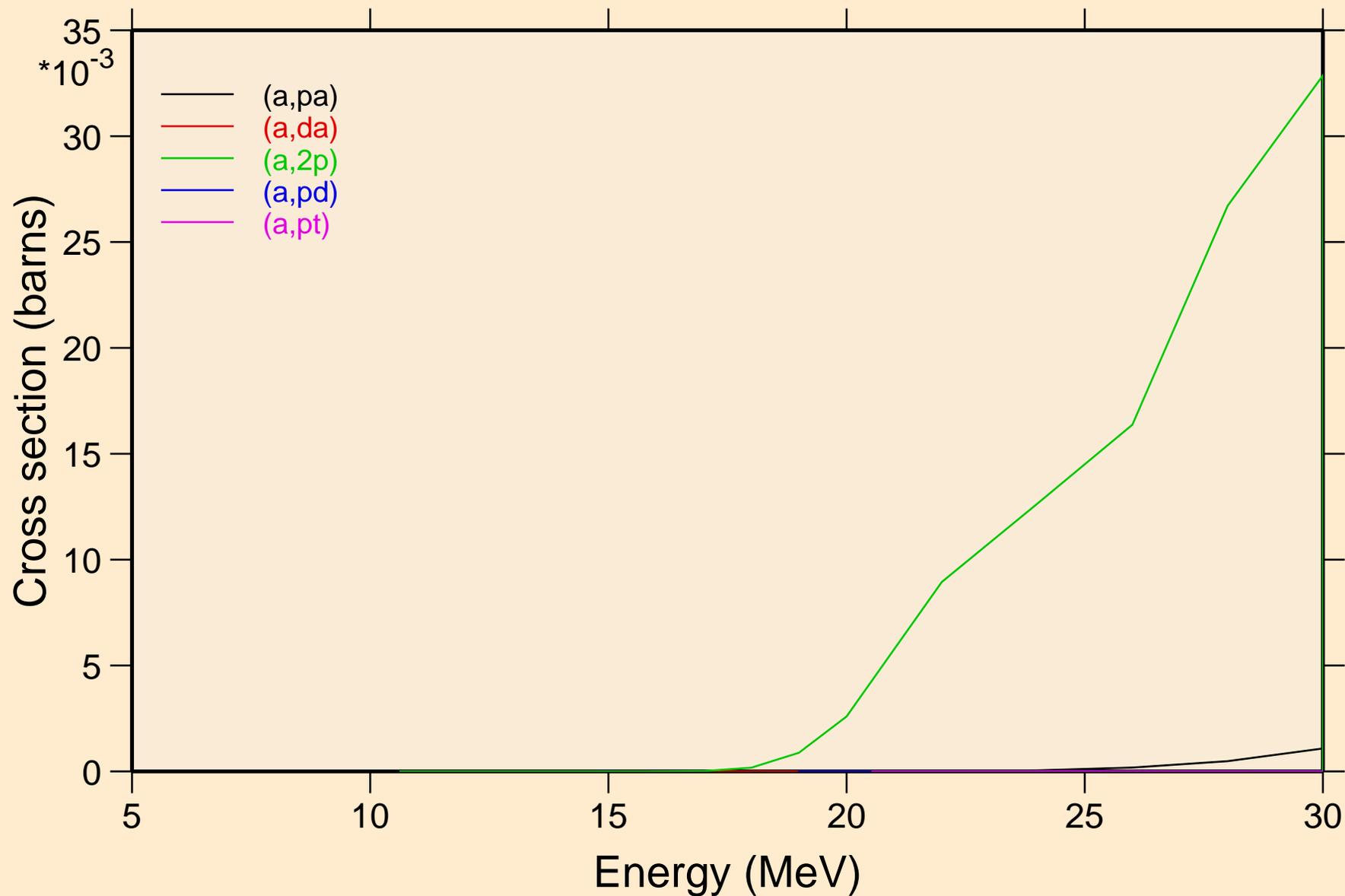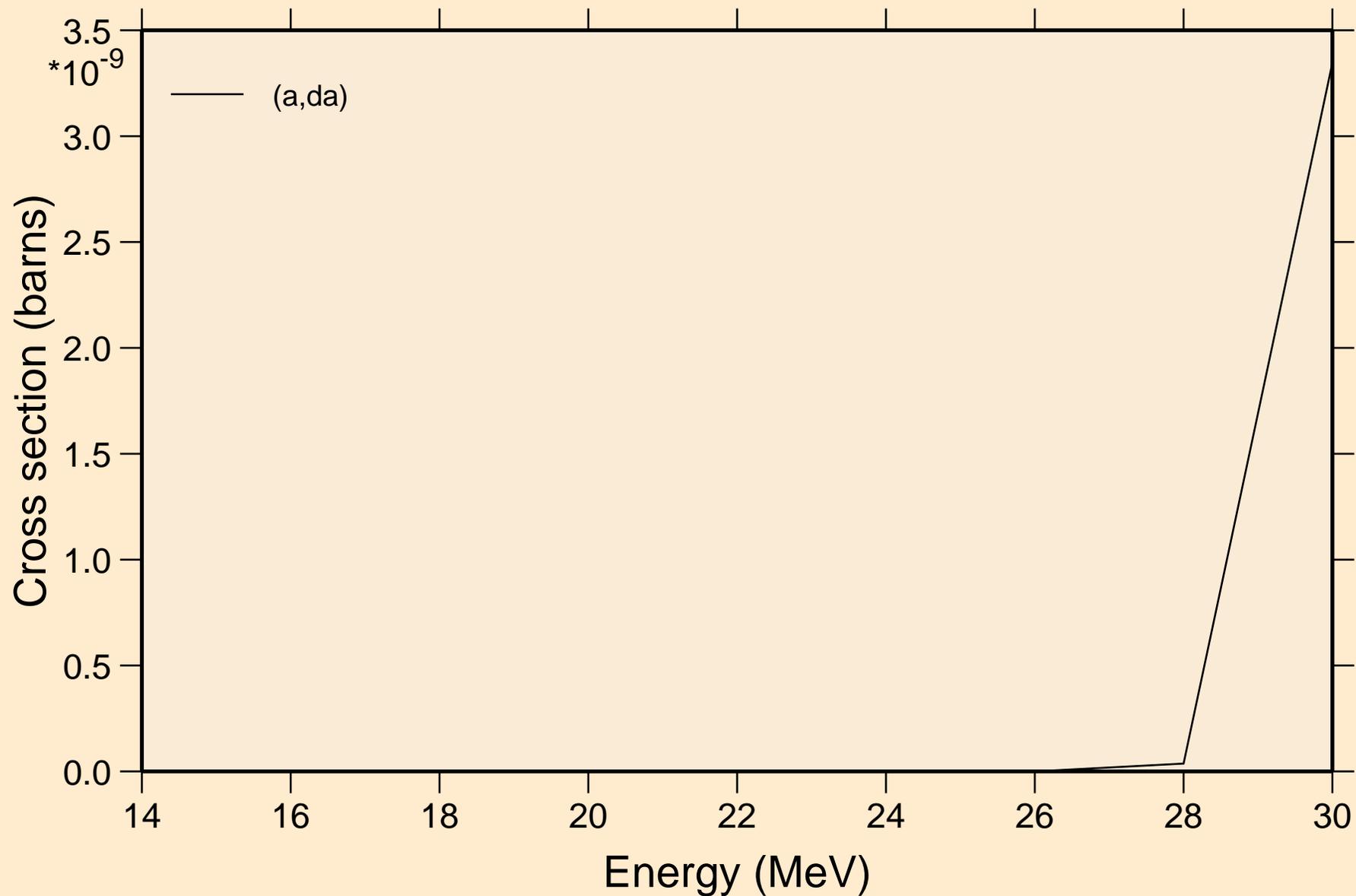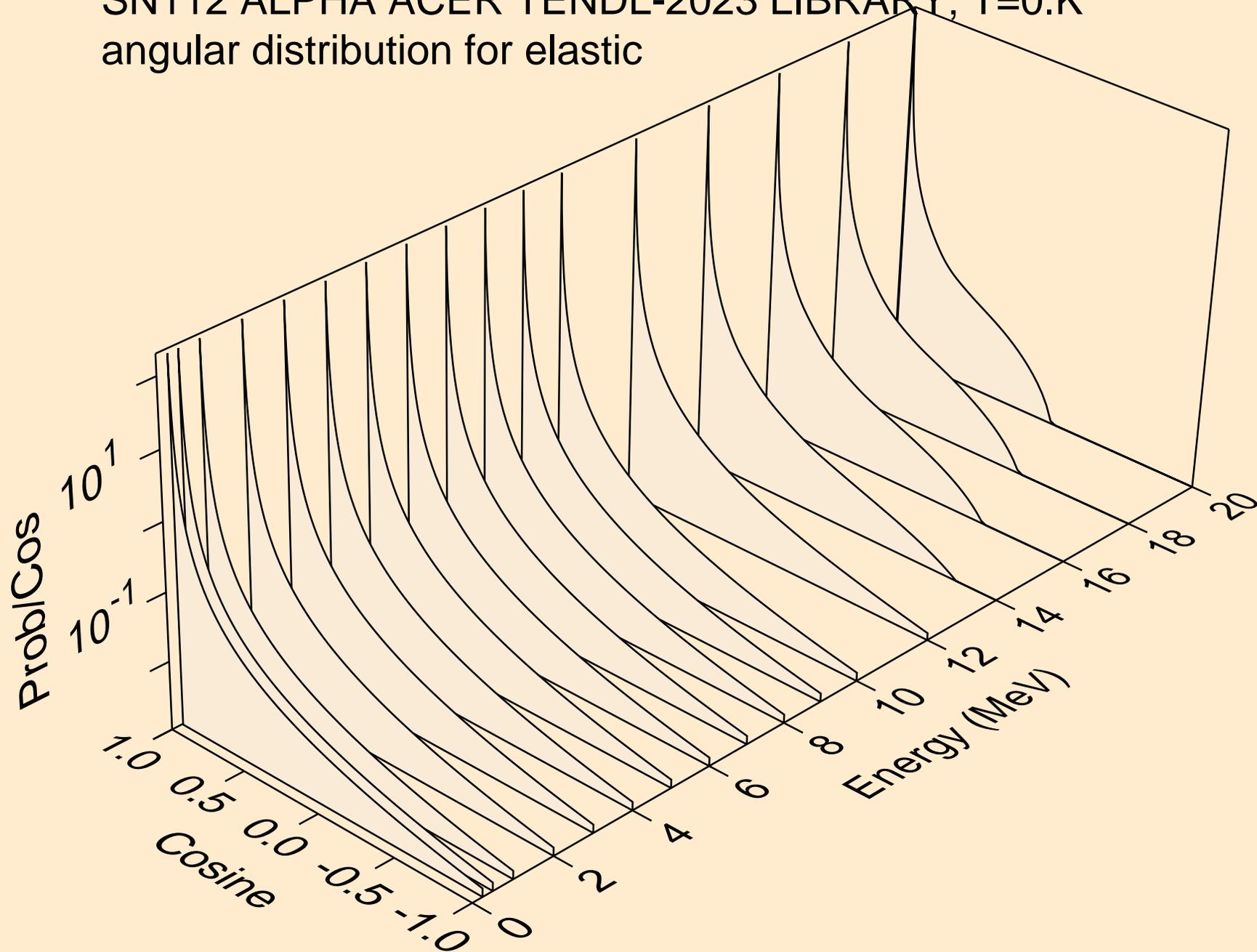
SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions

(a,da)

Cross section (barns)
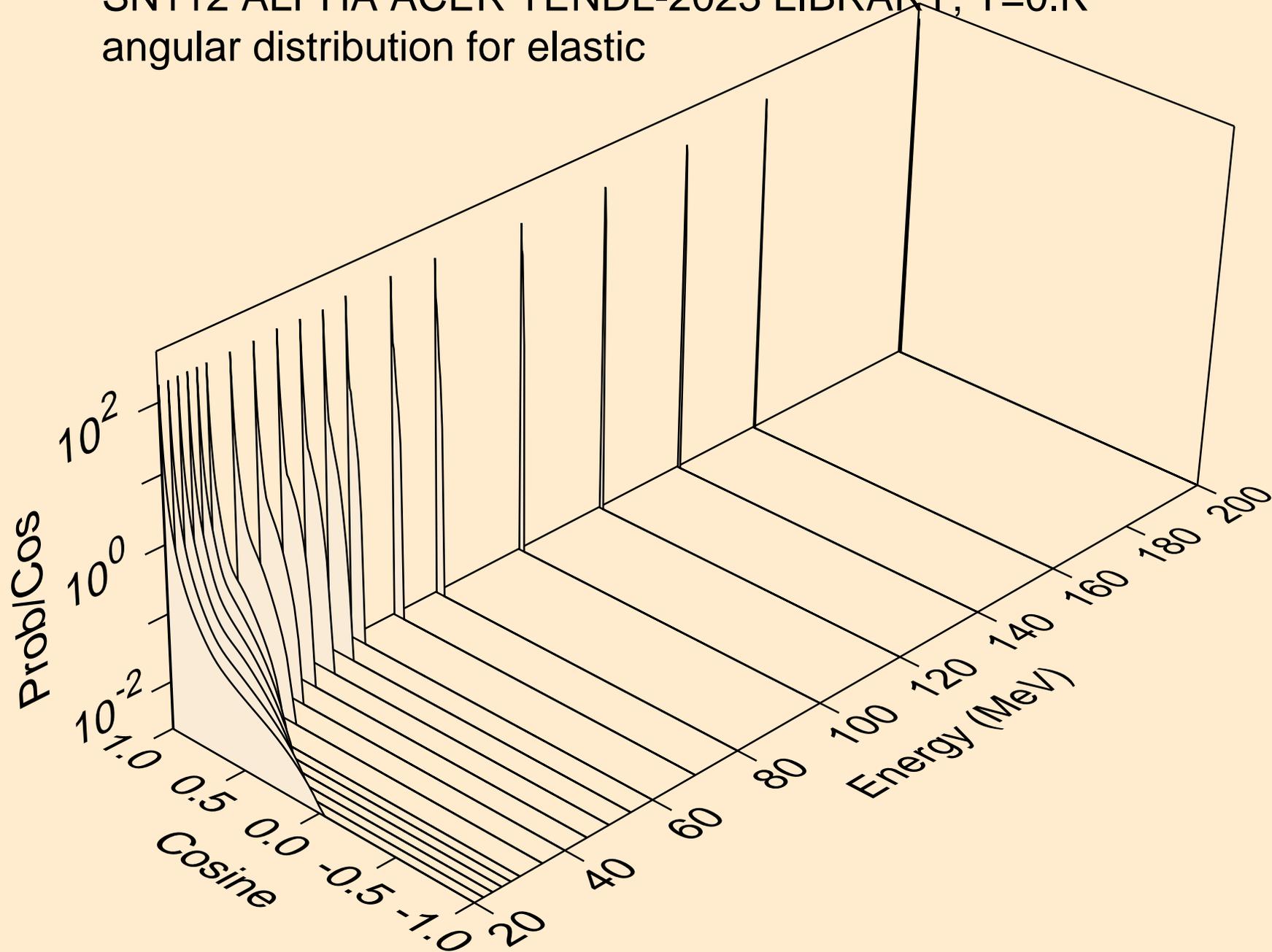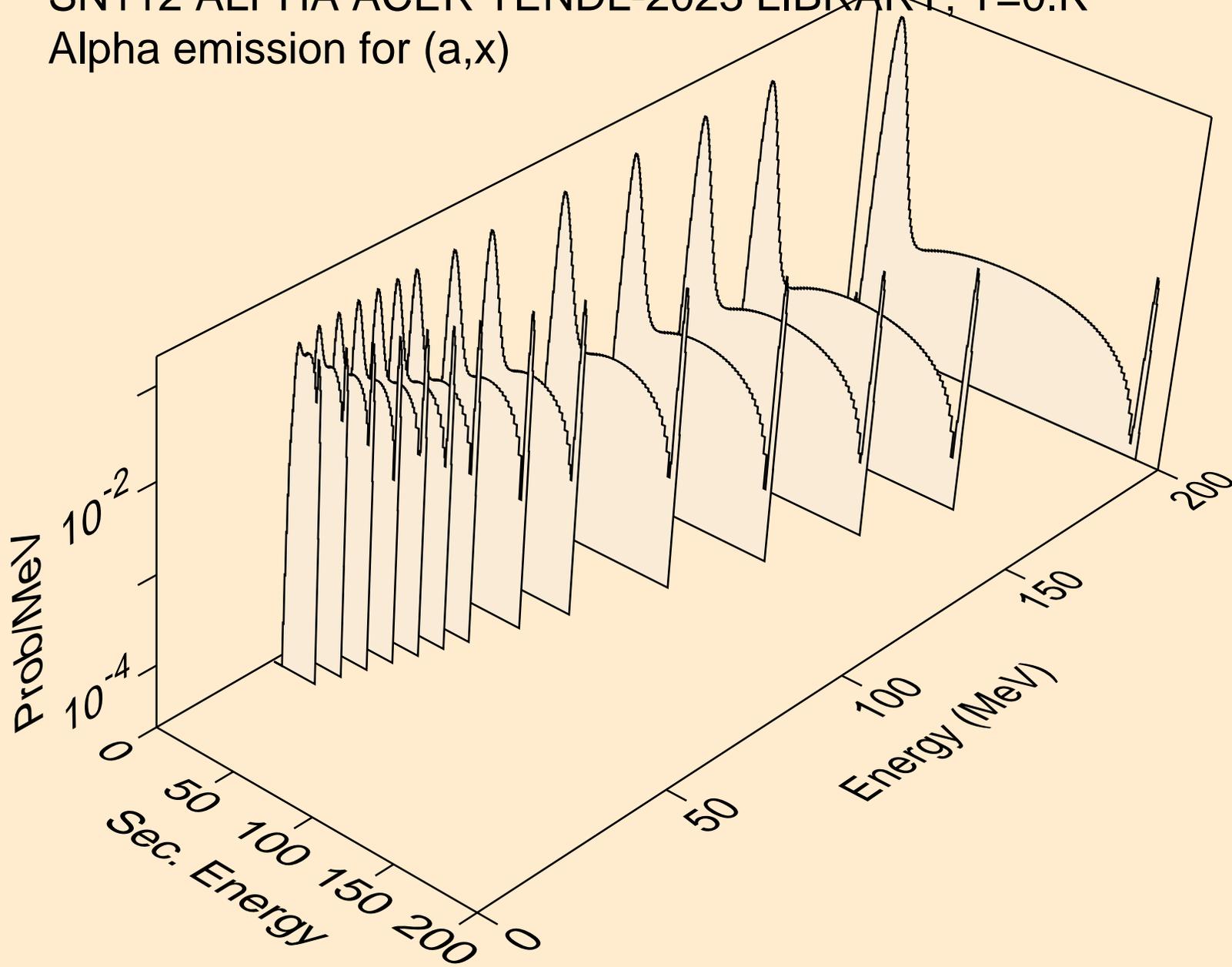
Energy (MeV)

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
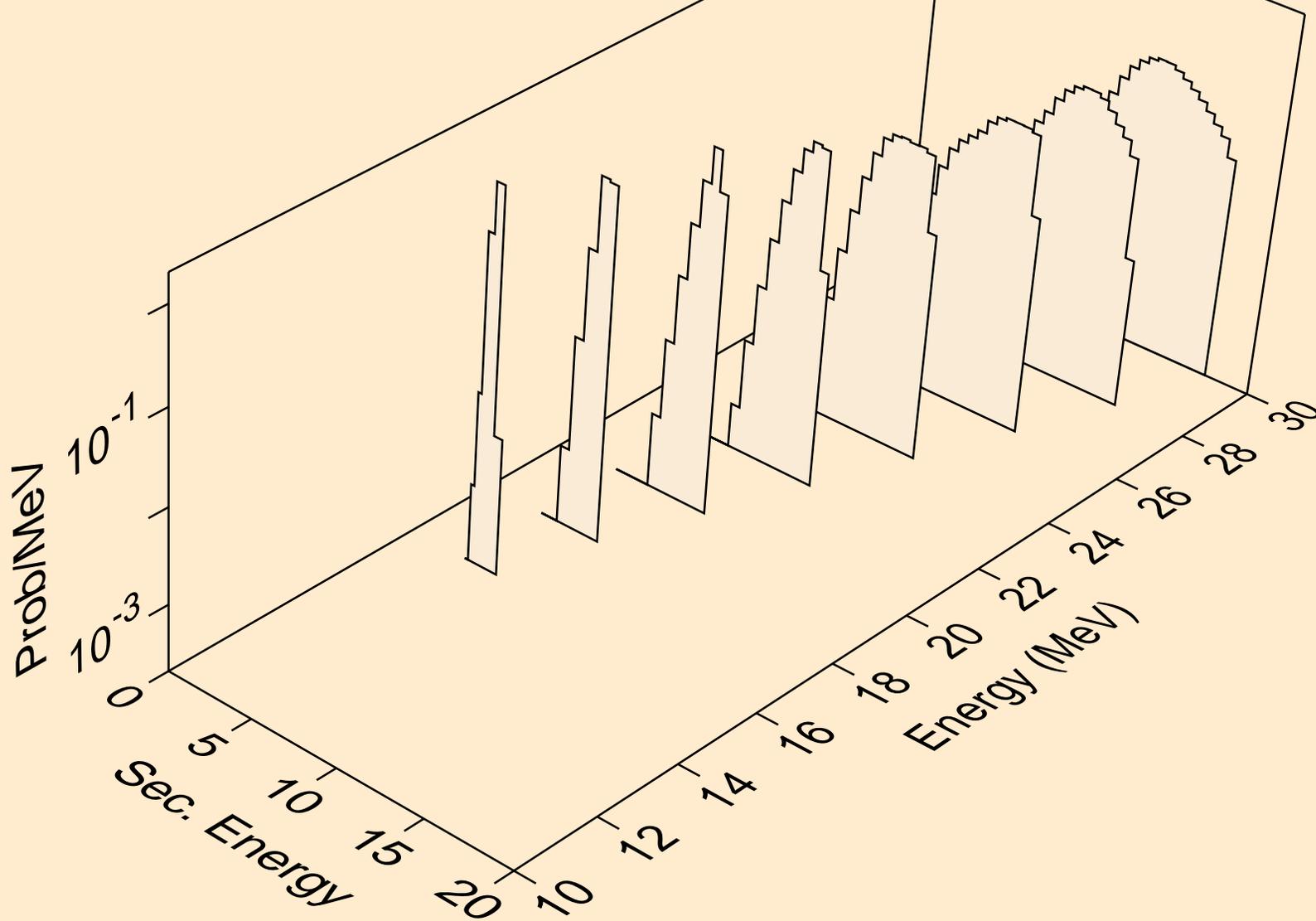angular distribution for elastic

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
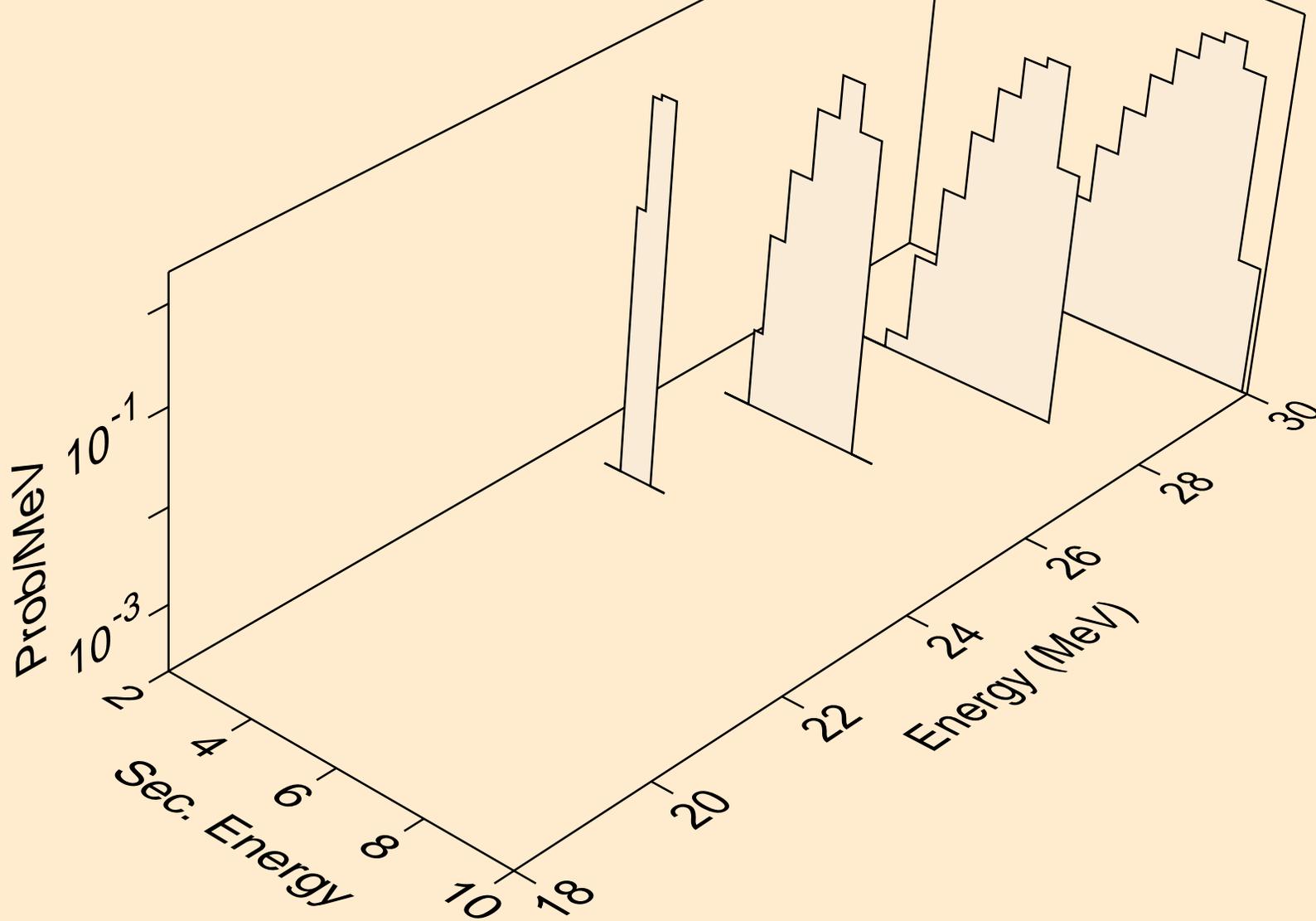angular distribution for elastic

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
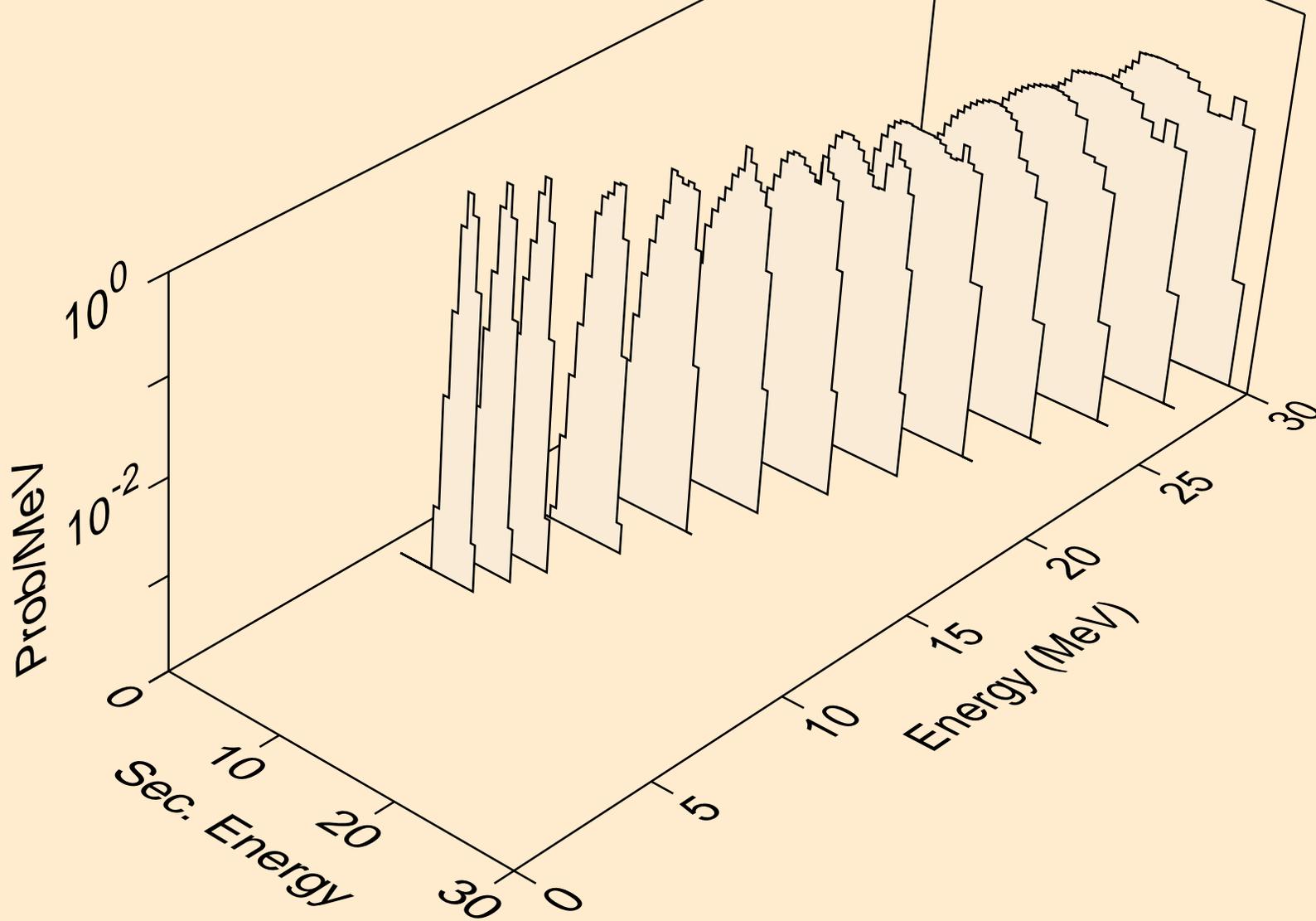Alpha emission for (a,x)

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
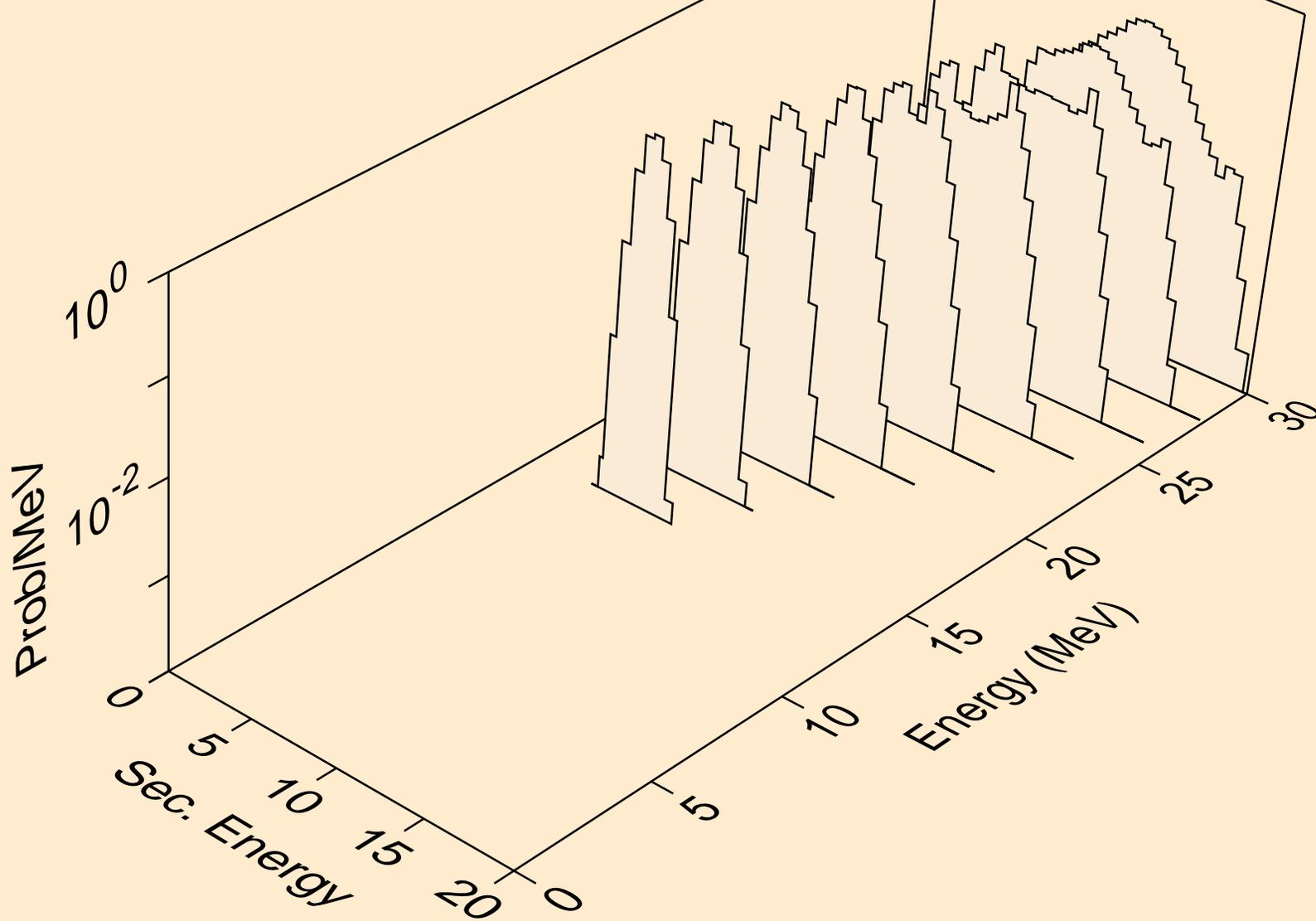Alpha emission for (a,n*)a

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
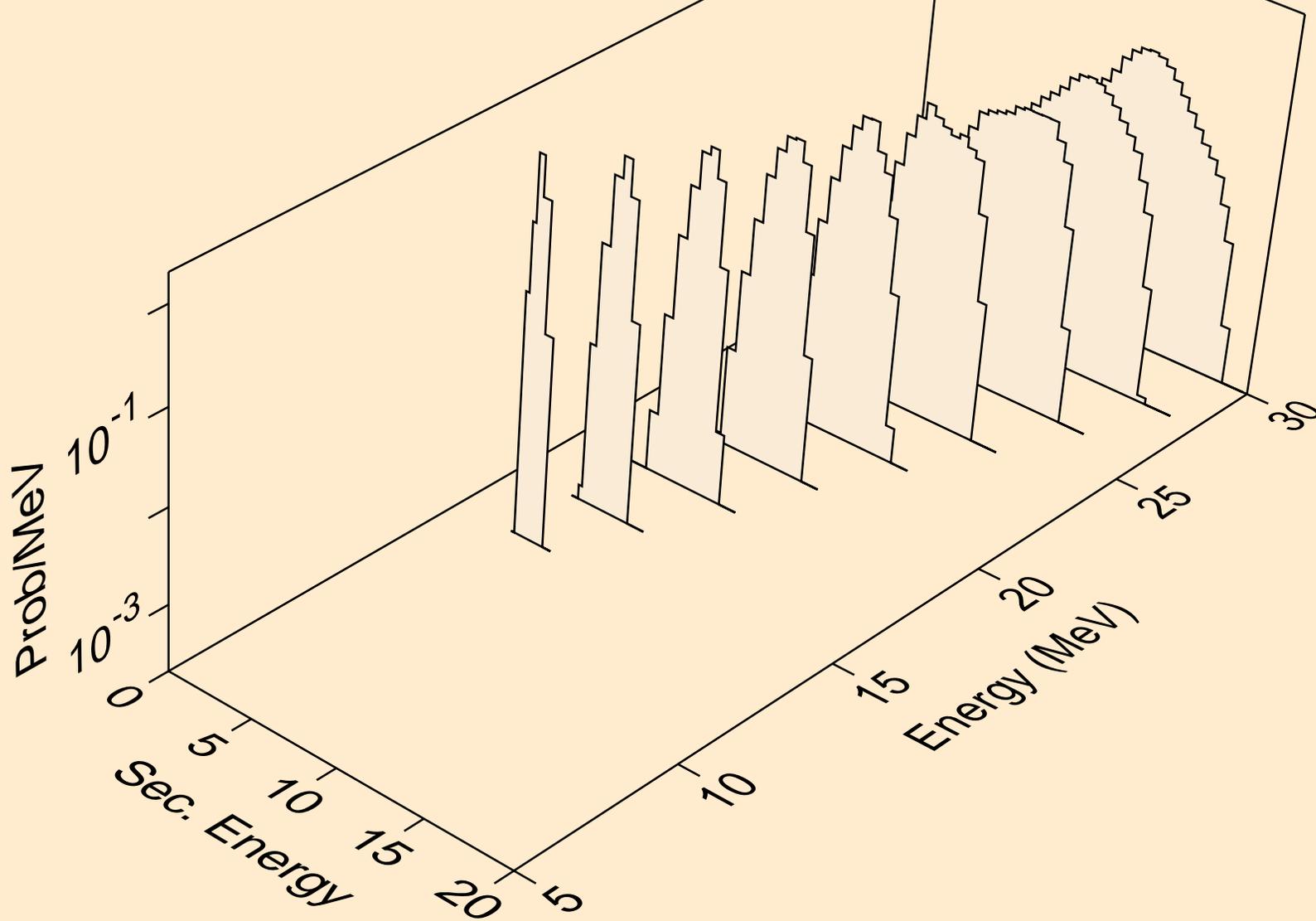Alpha emission for (a,2n)a

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
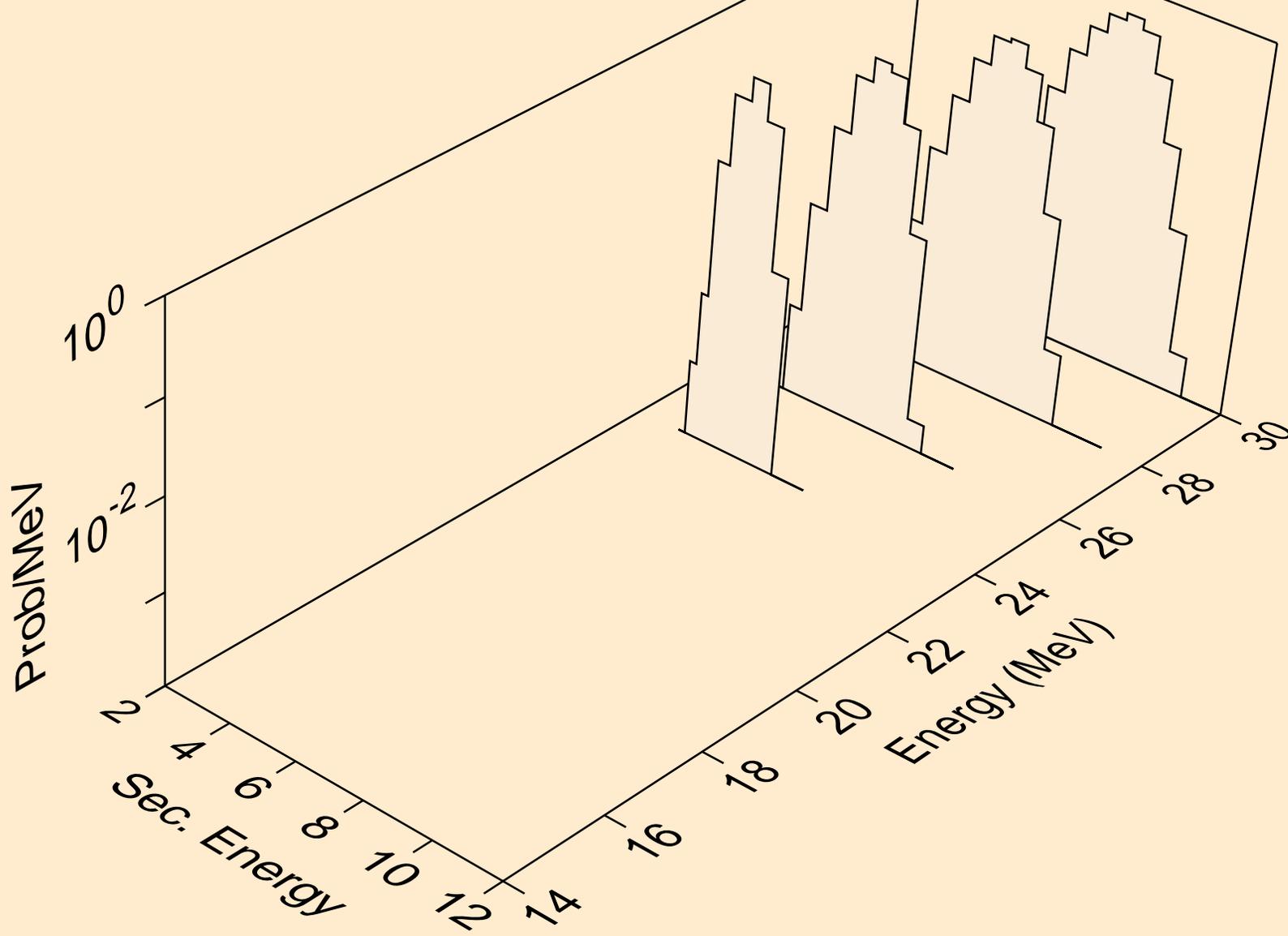Alpha emission for inelastic

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
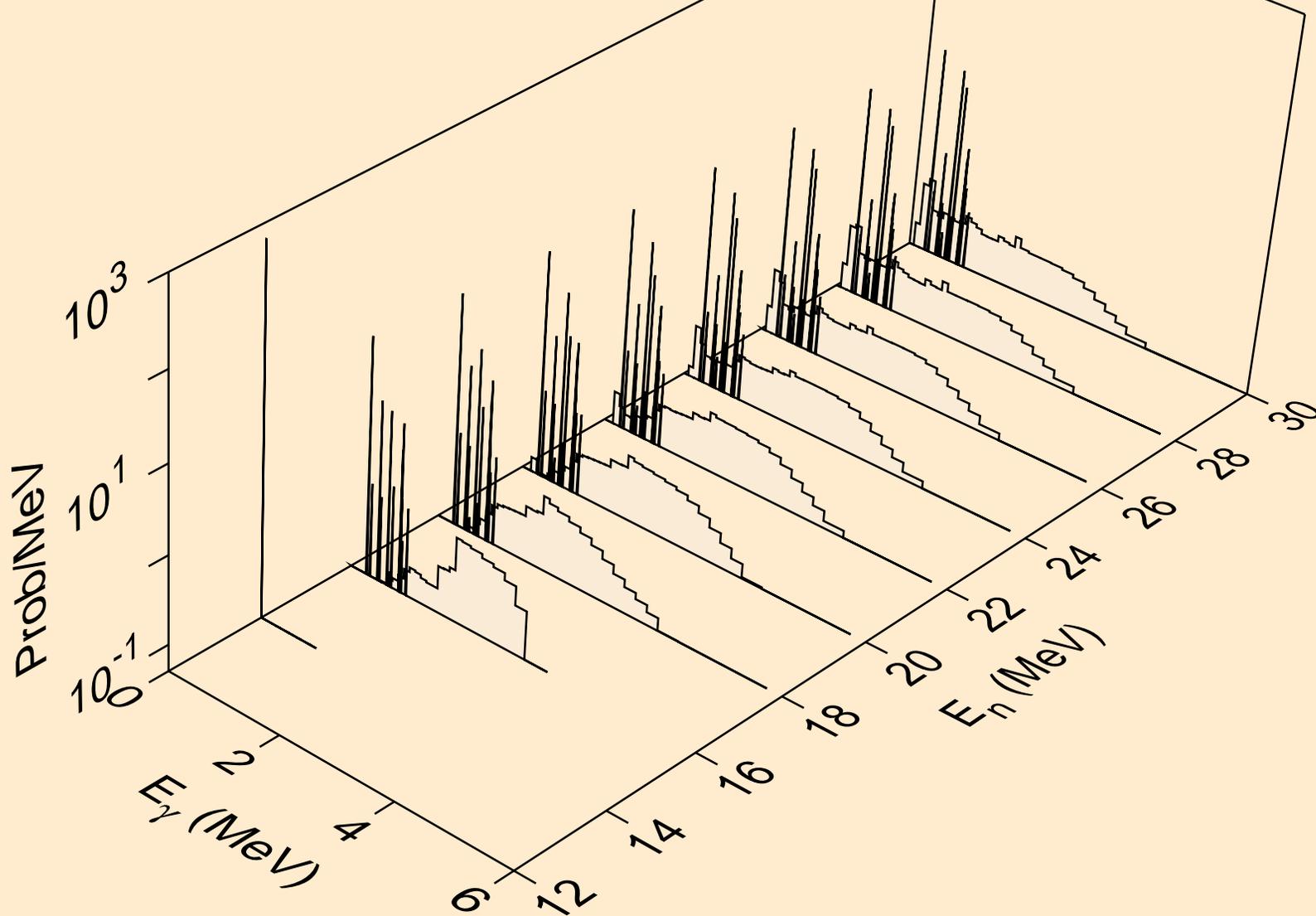Alpha emission for (a,2a)

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Alpha emission for (a,pa)

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
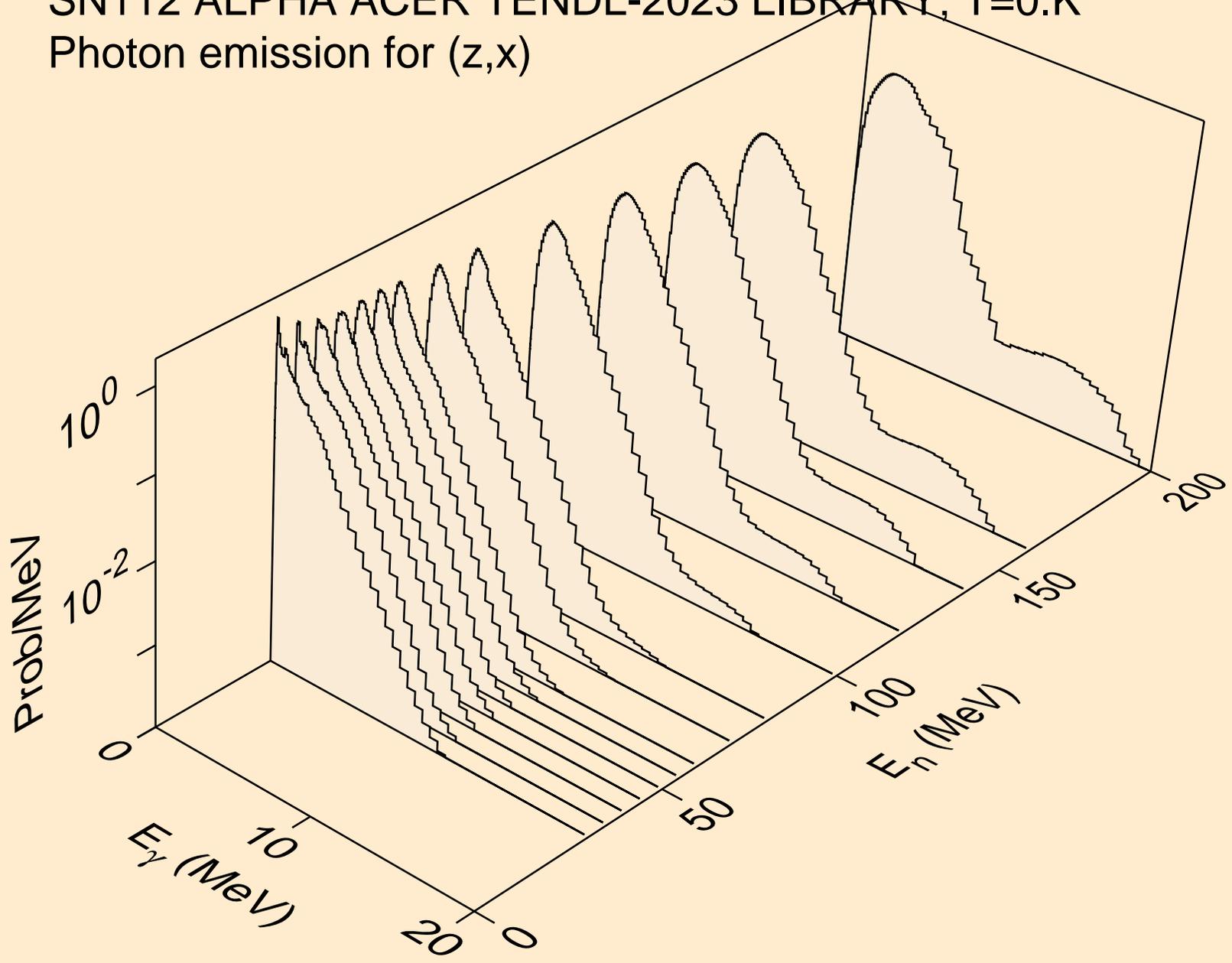Alpha emission for (a,da)

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
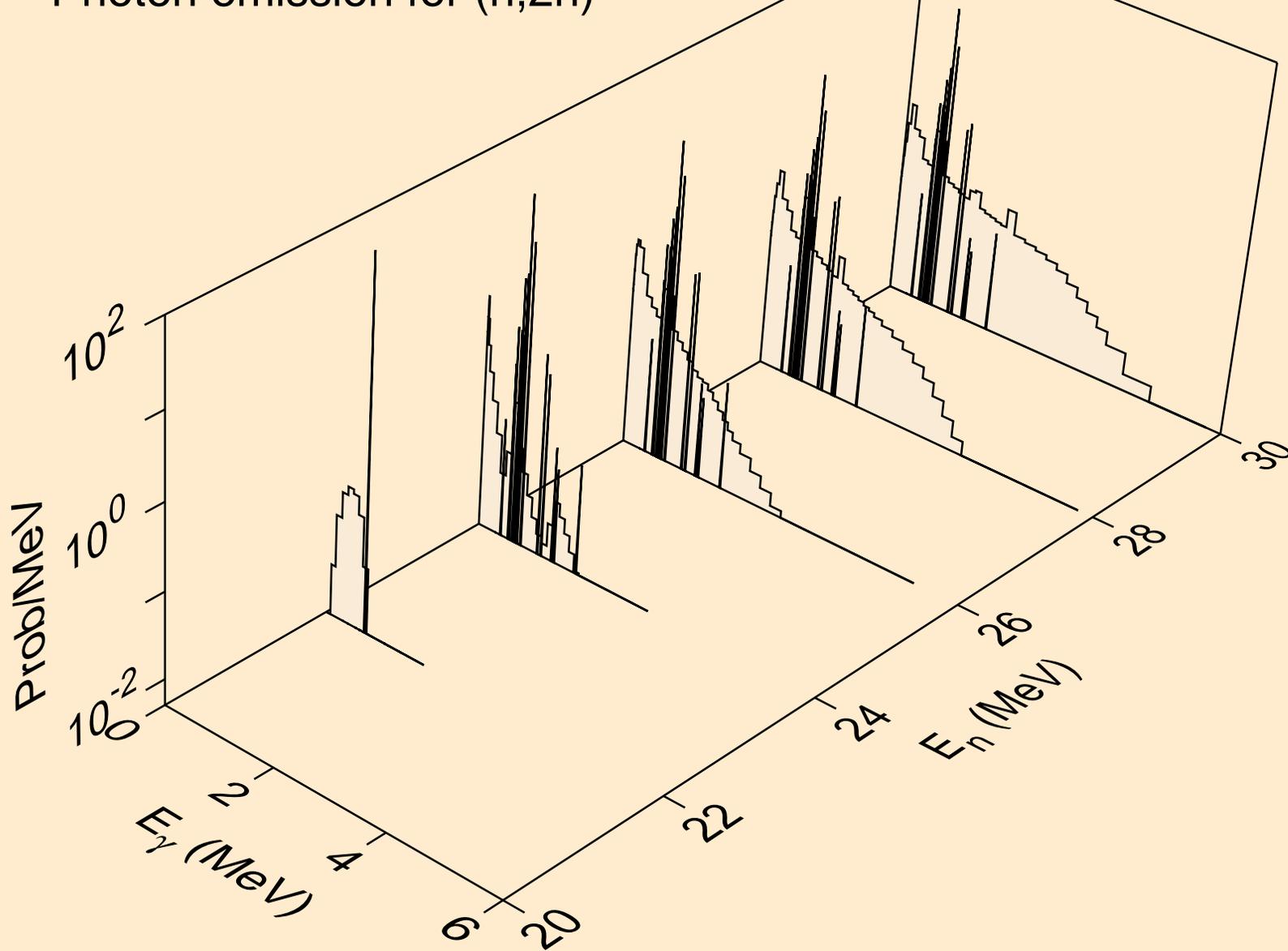Photon emission for (z,n)

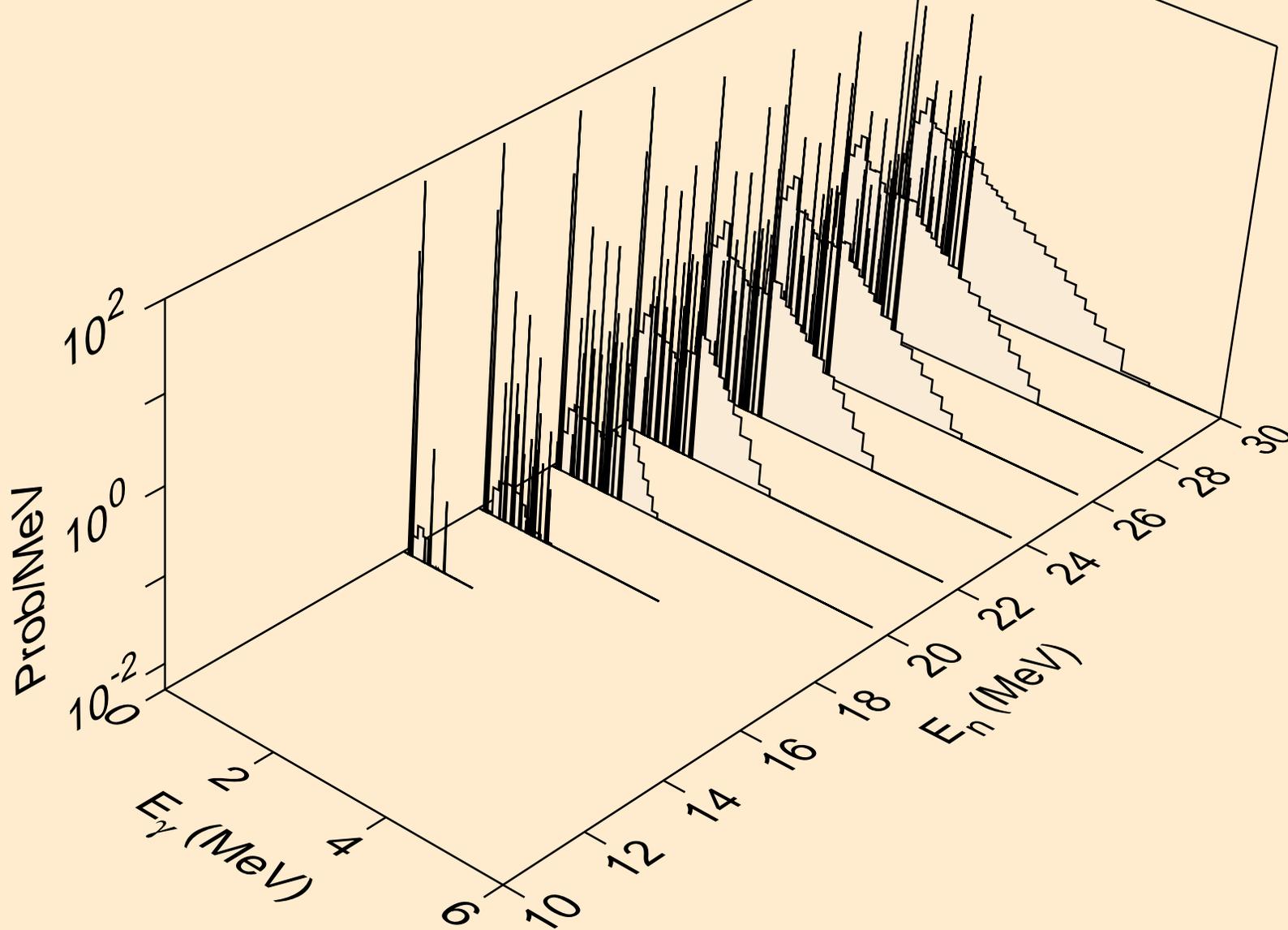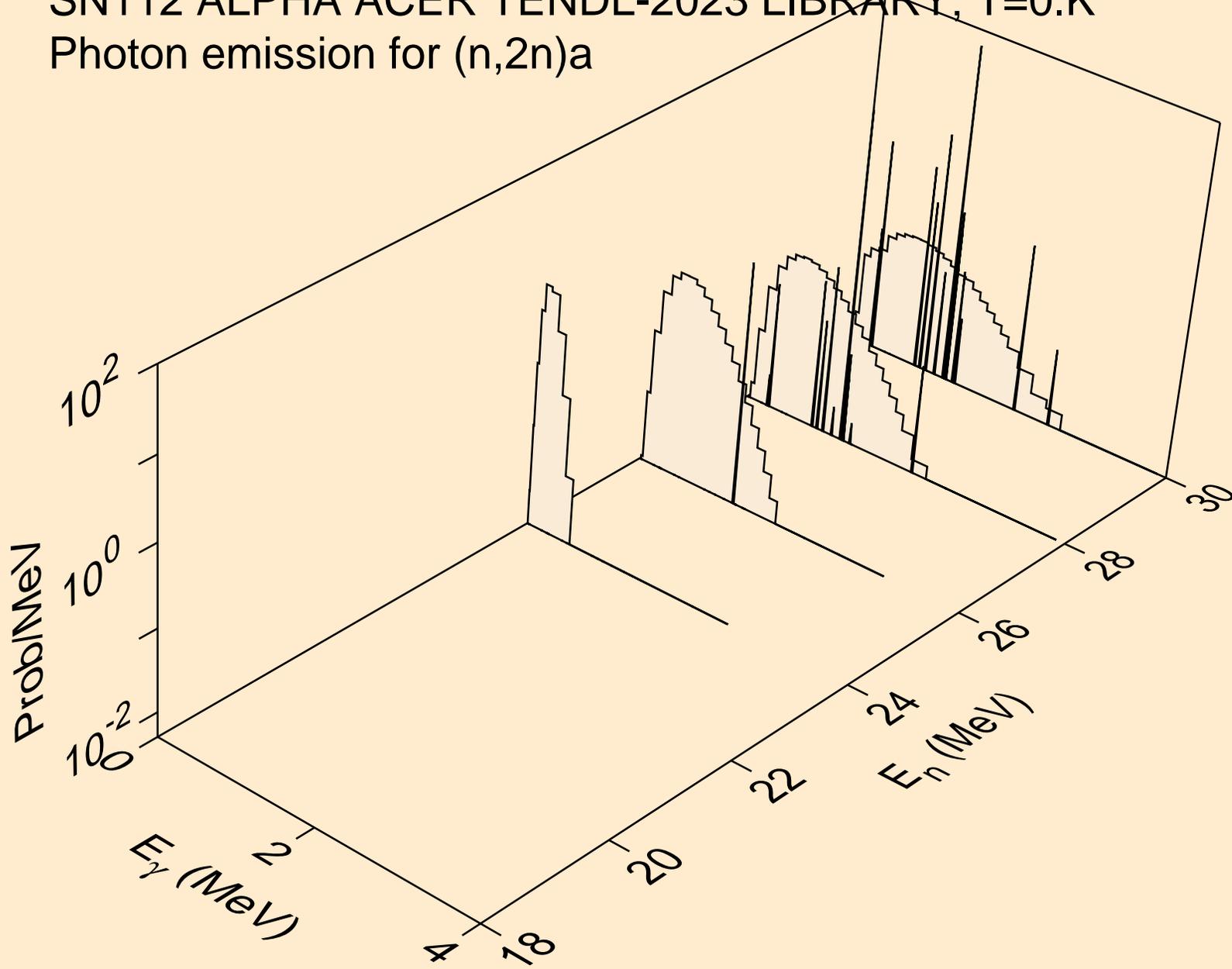SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (z,x)

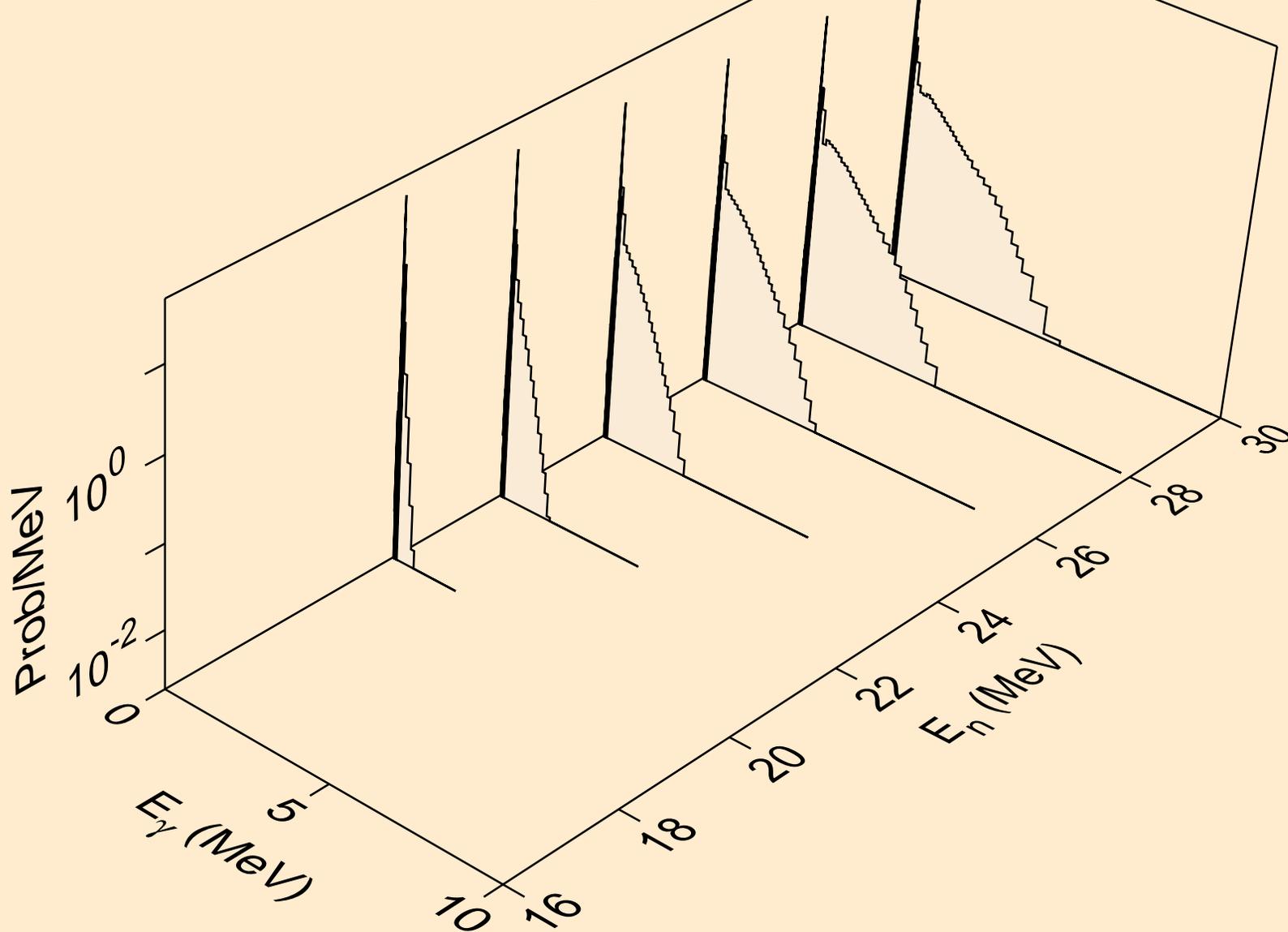SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2n)

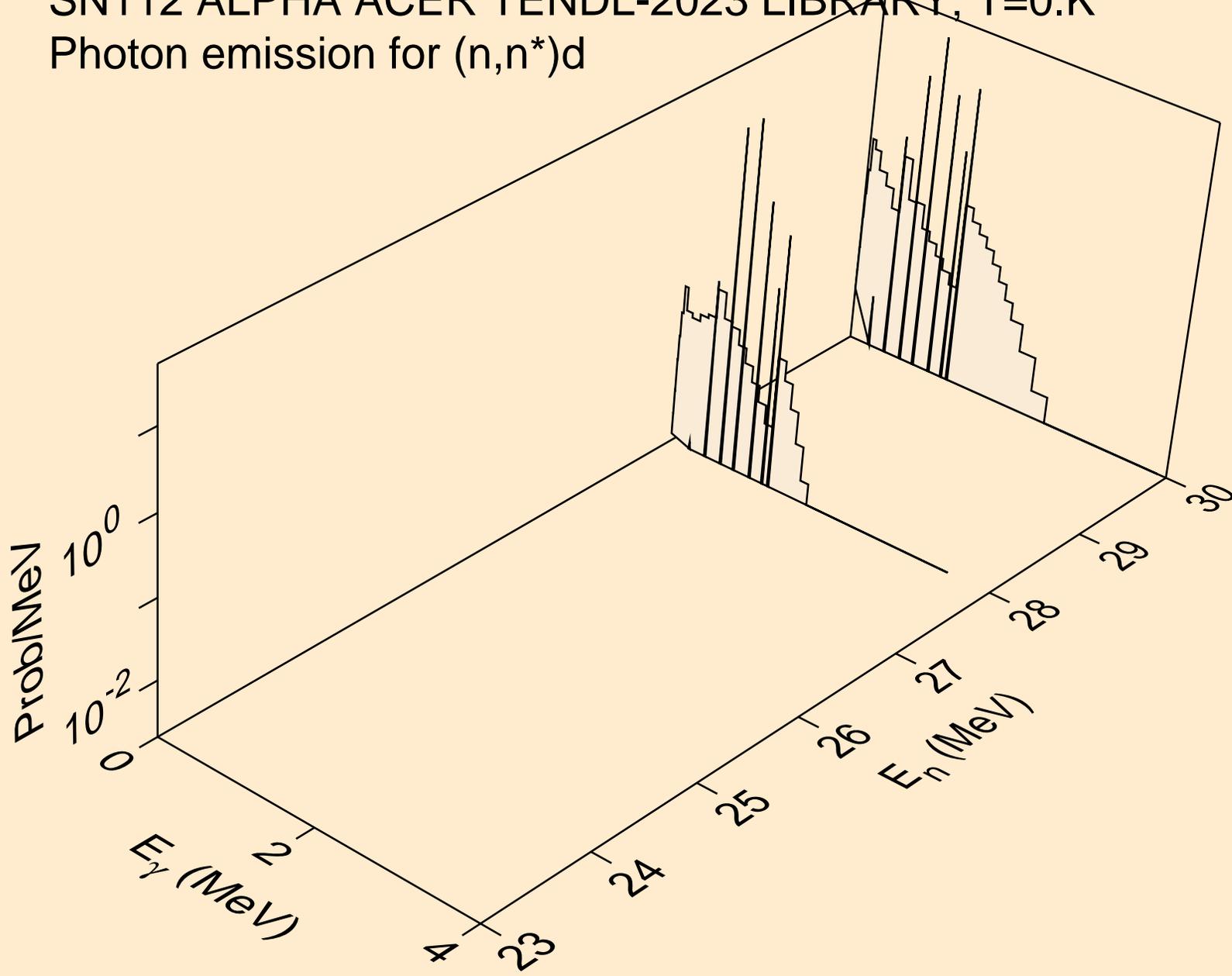SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)a

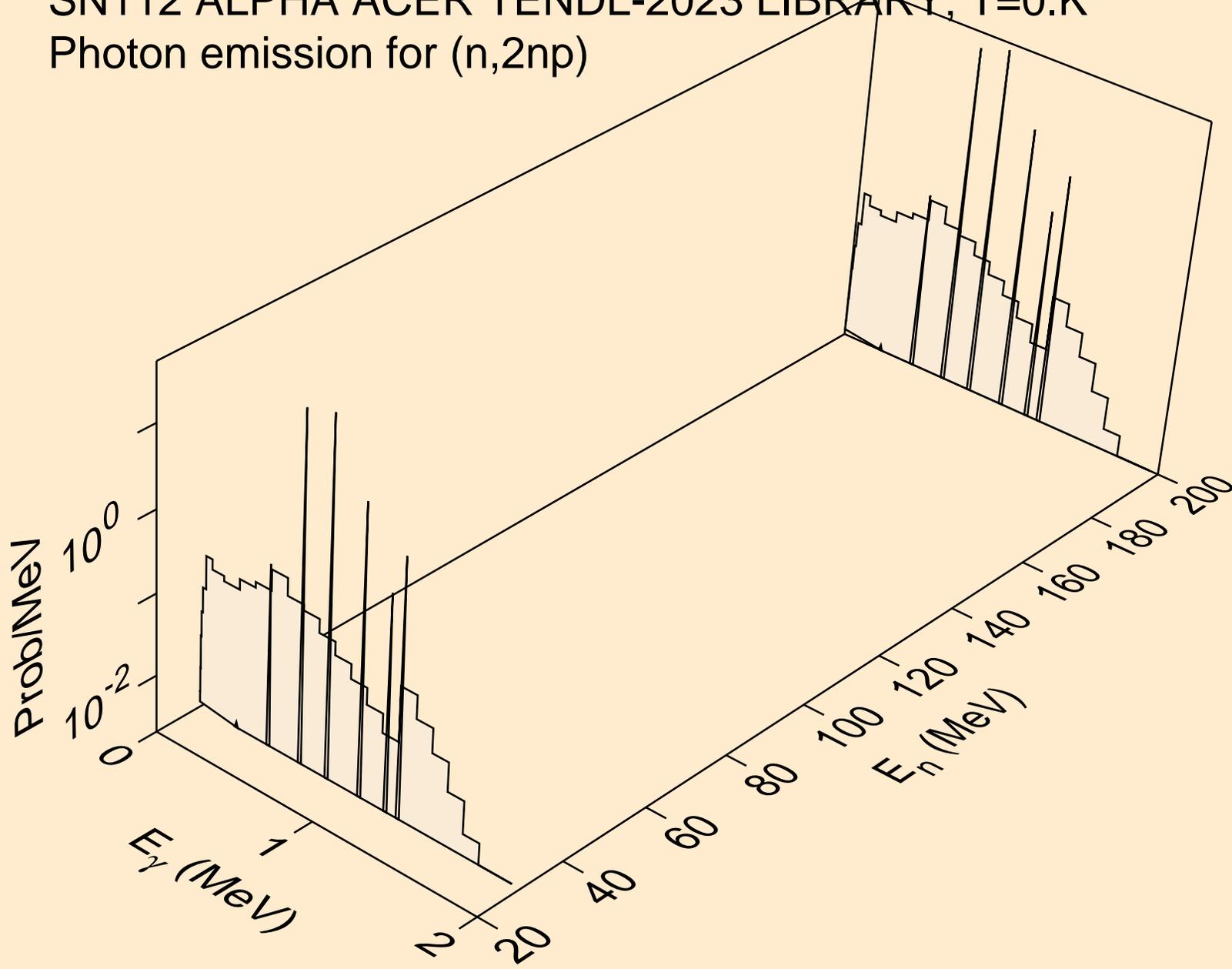SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2n)a

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)p

Prob/MeV

10^0

10^{-2}

0

E_γ (MeV)
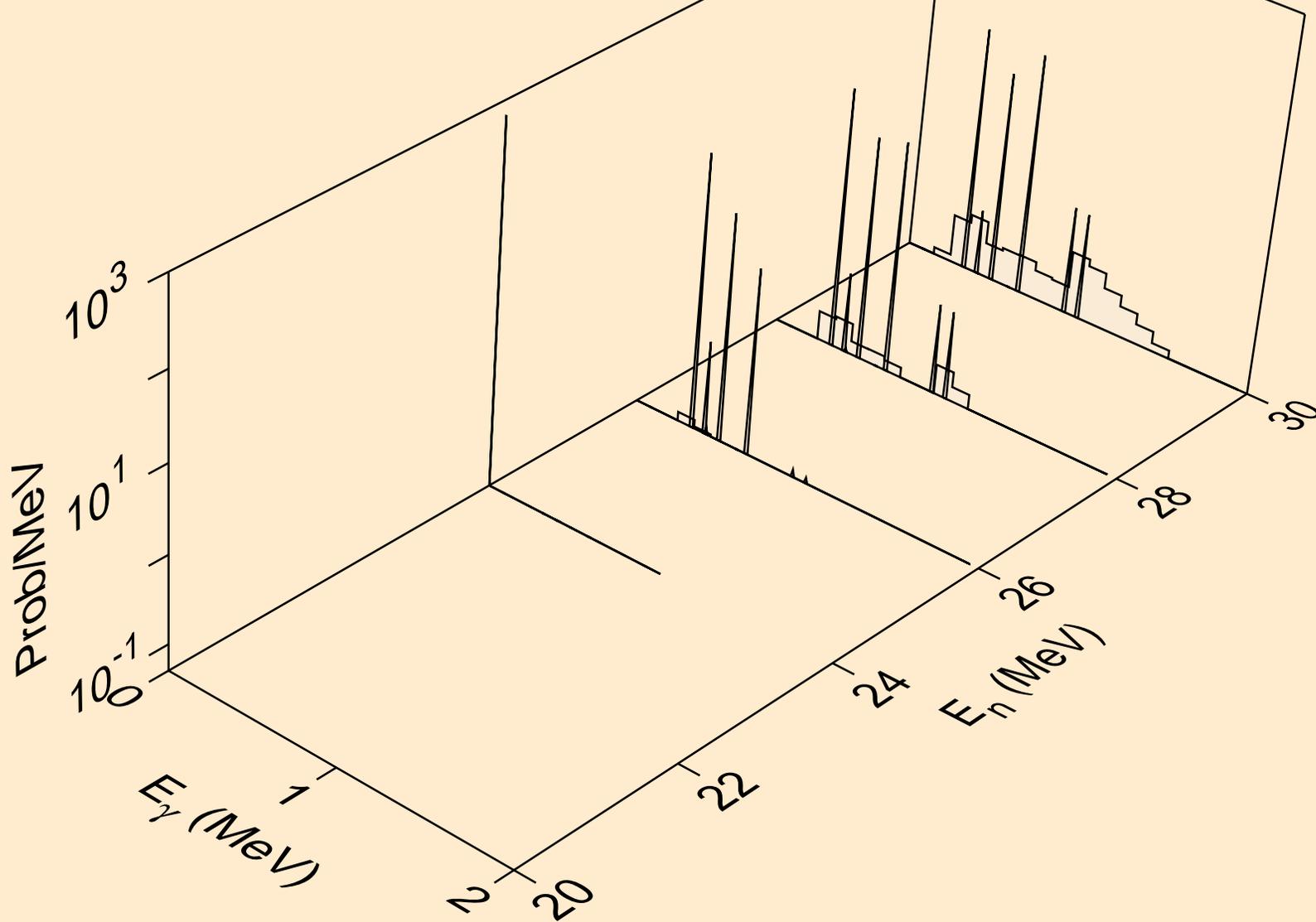
5

10

16

18

20

22

24

26

28

30

E_n (MeV)

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
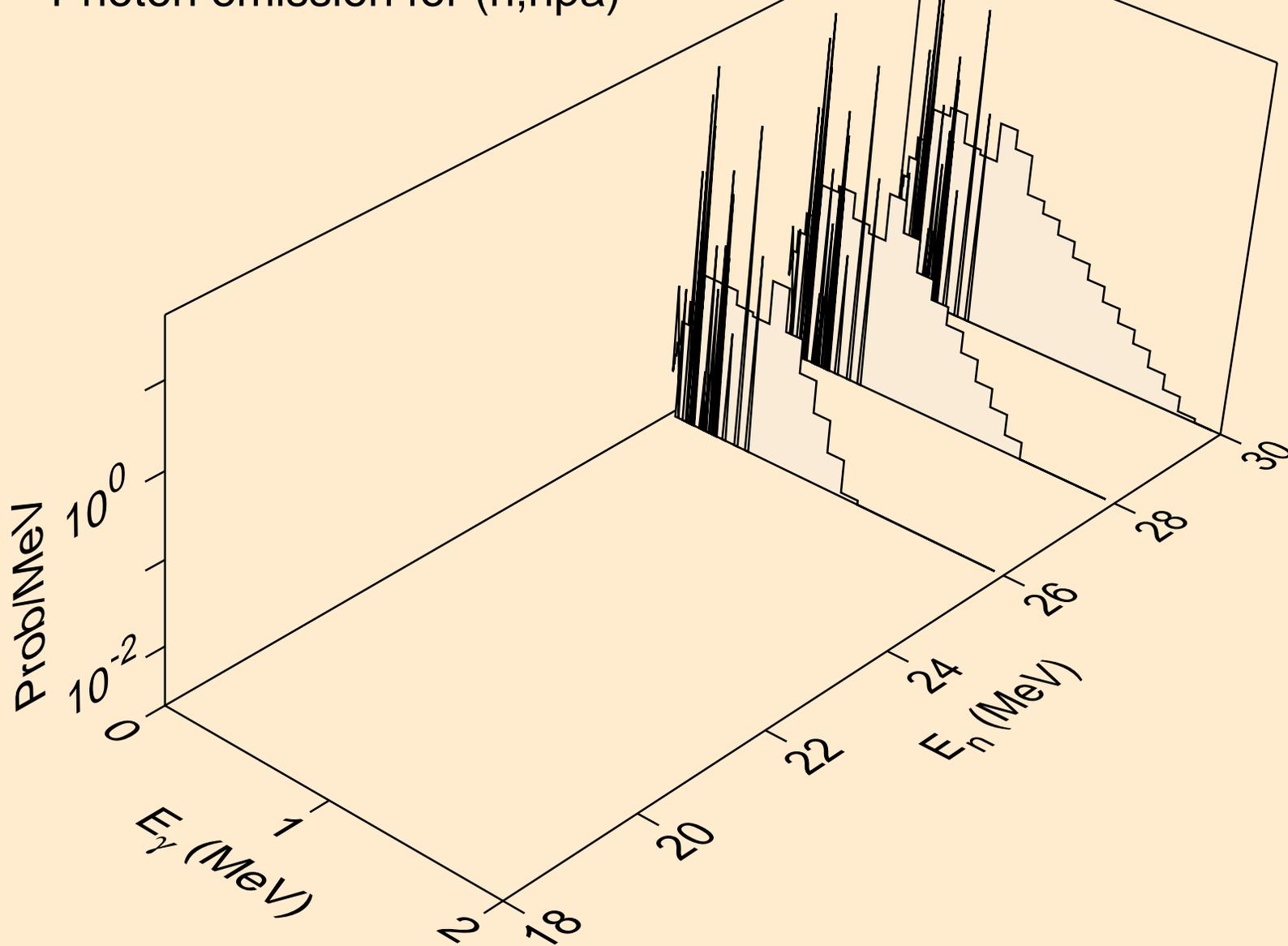Photon emission for (n,n*)d

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
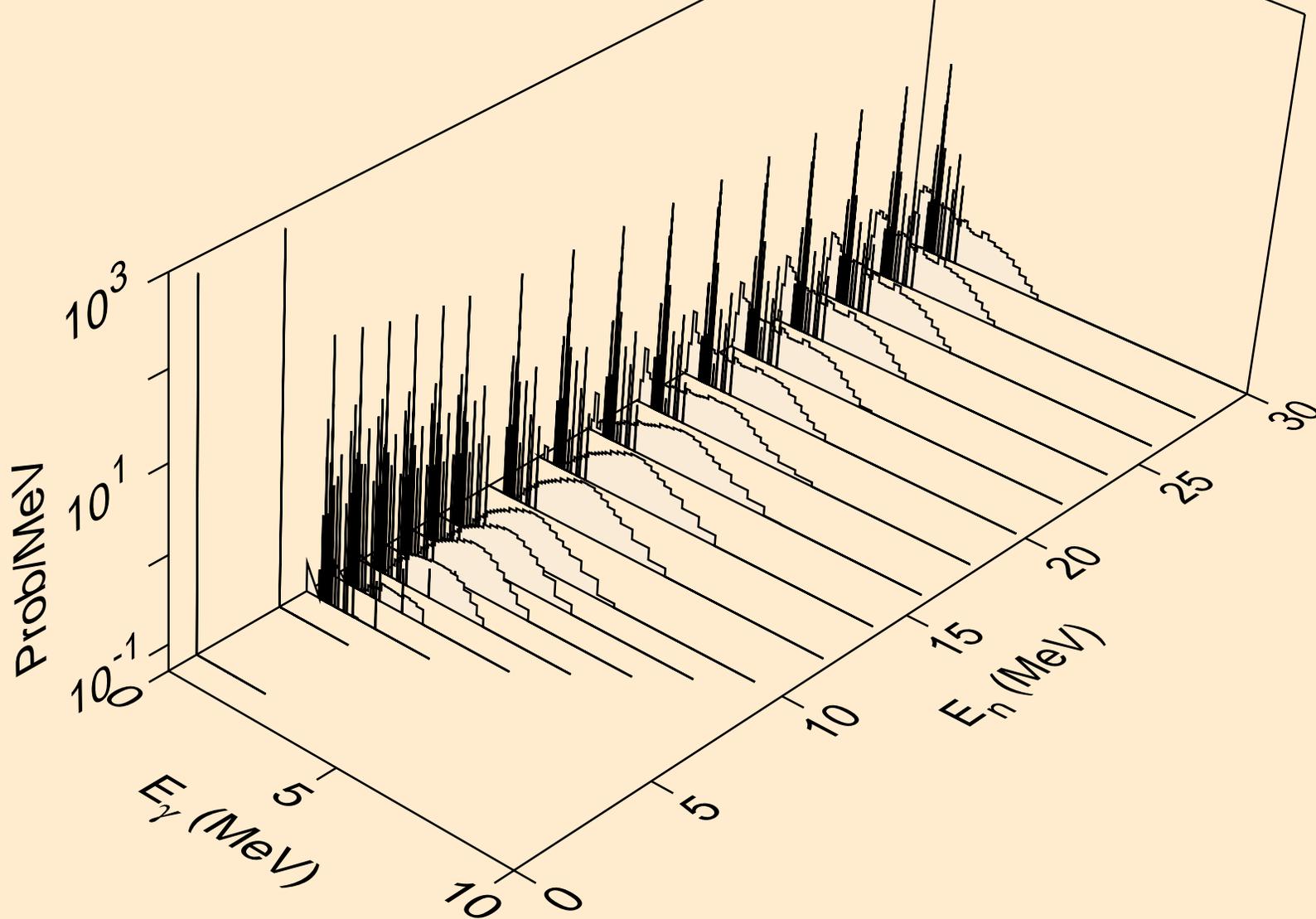Photon emission for (n,2np)

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
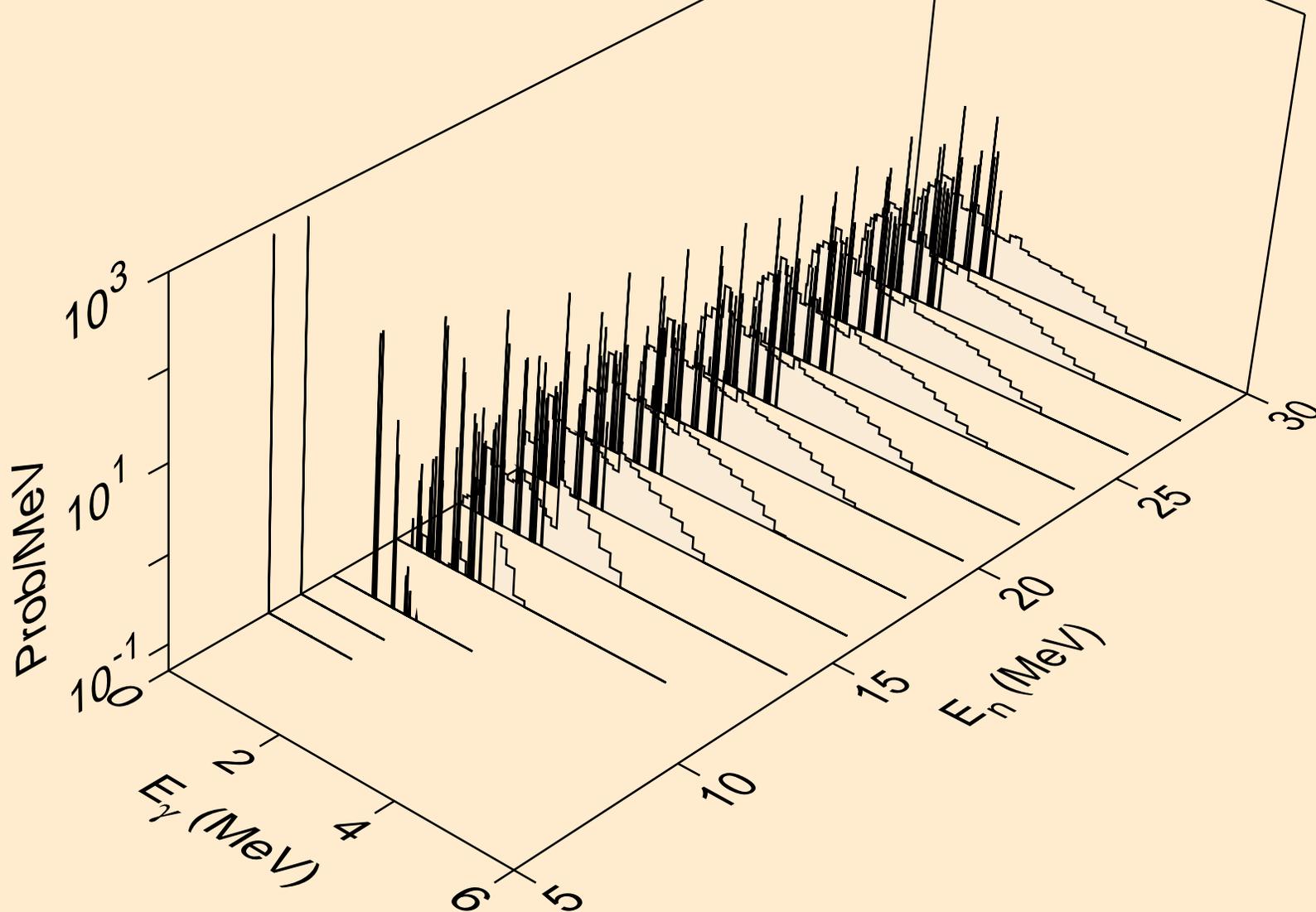Photon emission for (n,n2p)

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
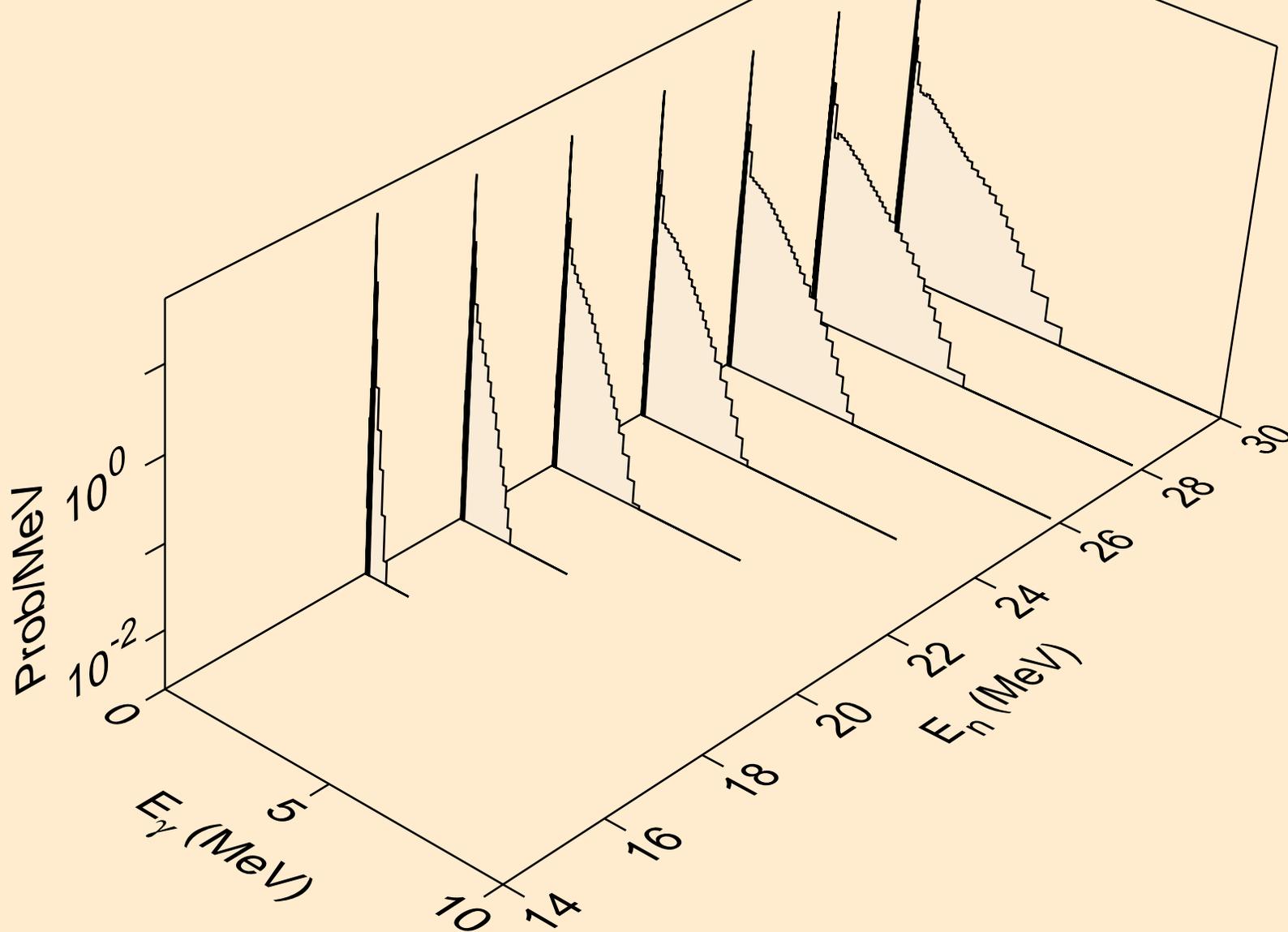Photon emission for (n,npa)

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
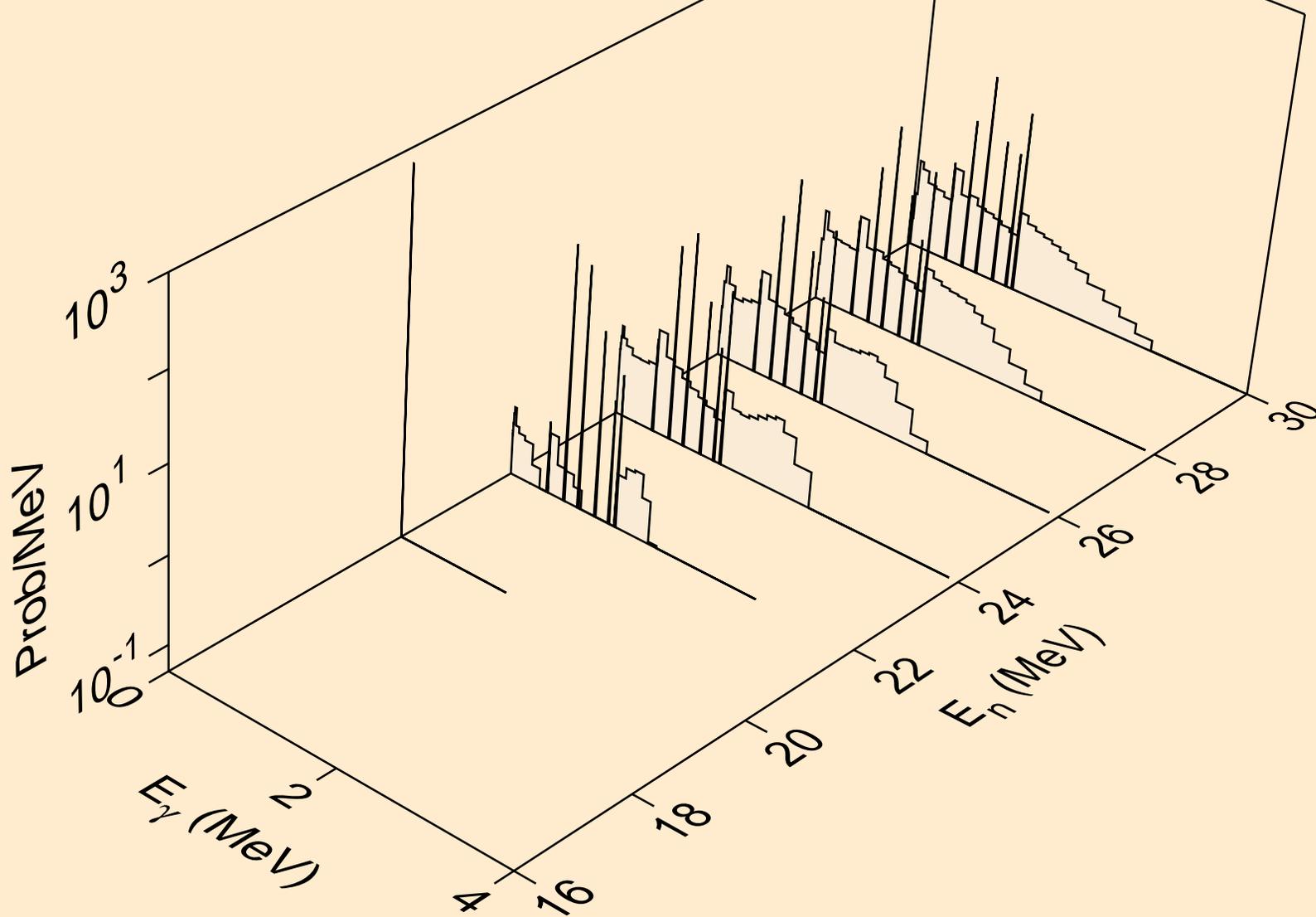Photon emission for (n,gma)

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
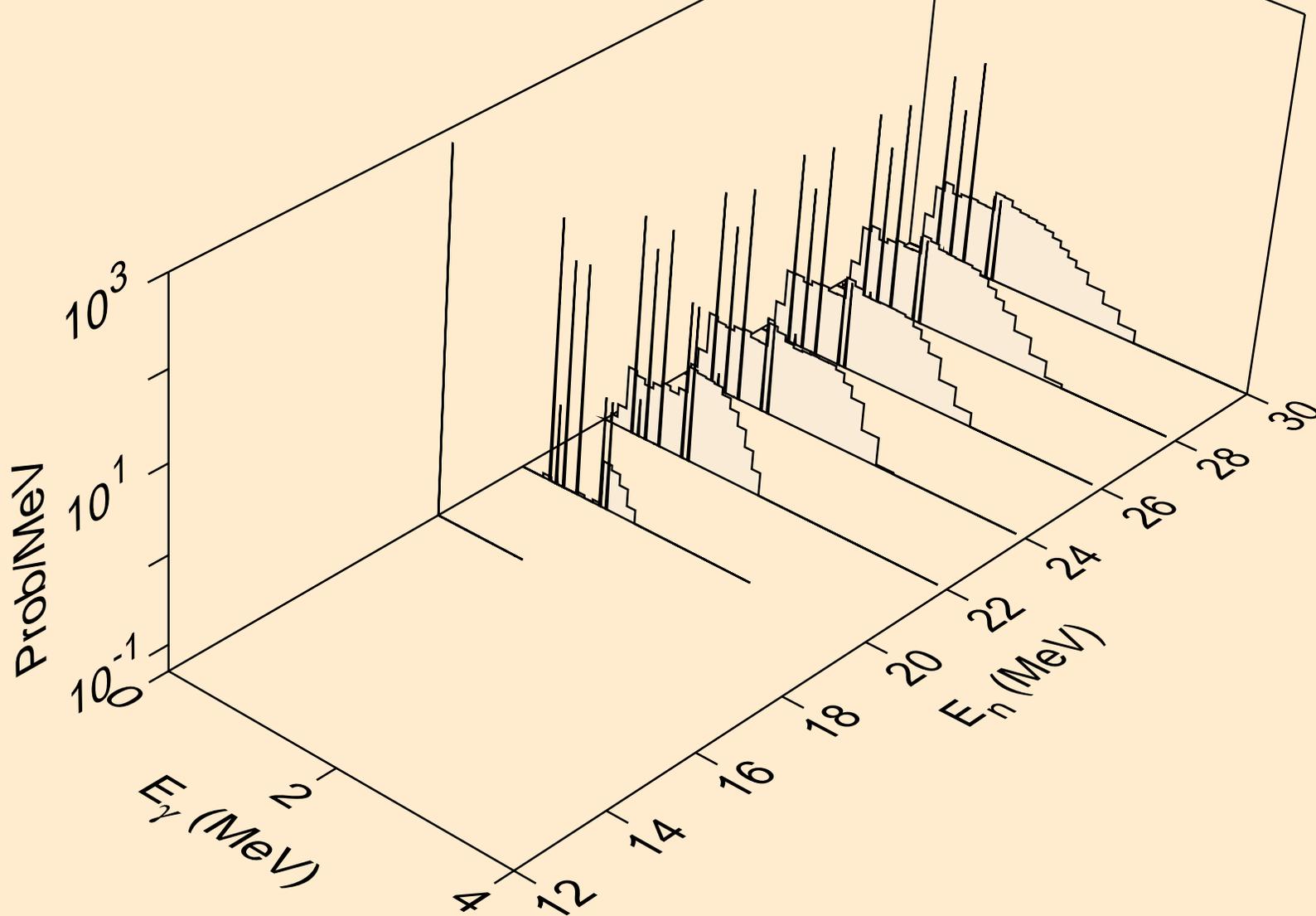Photon emission for (n,p)

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
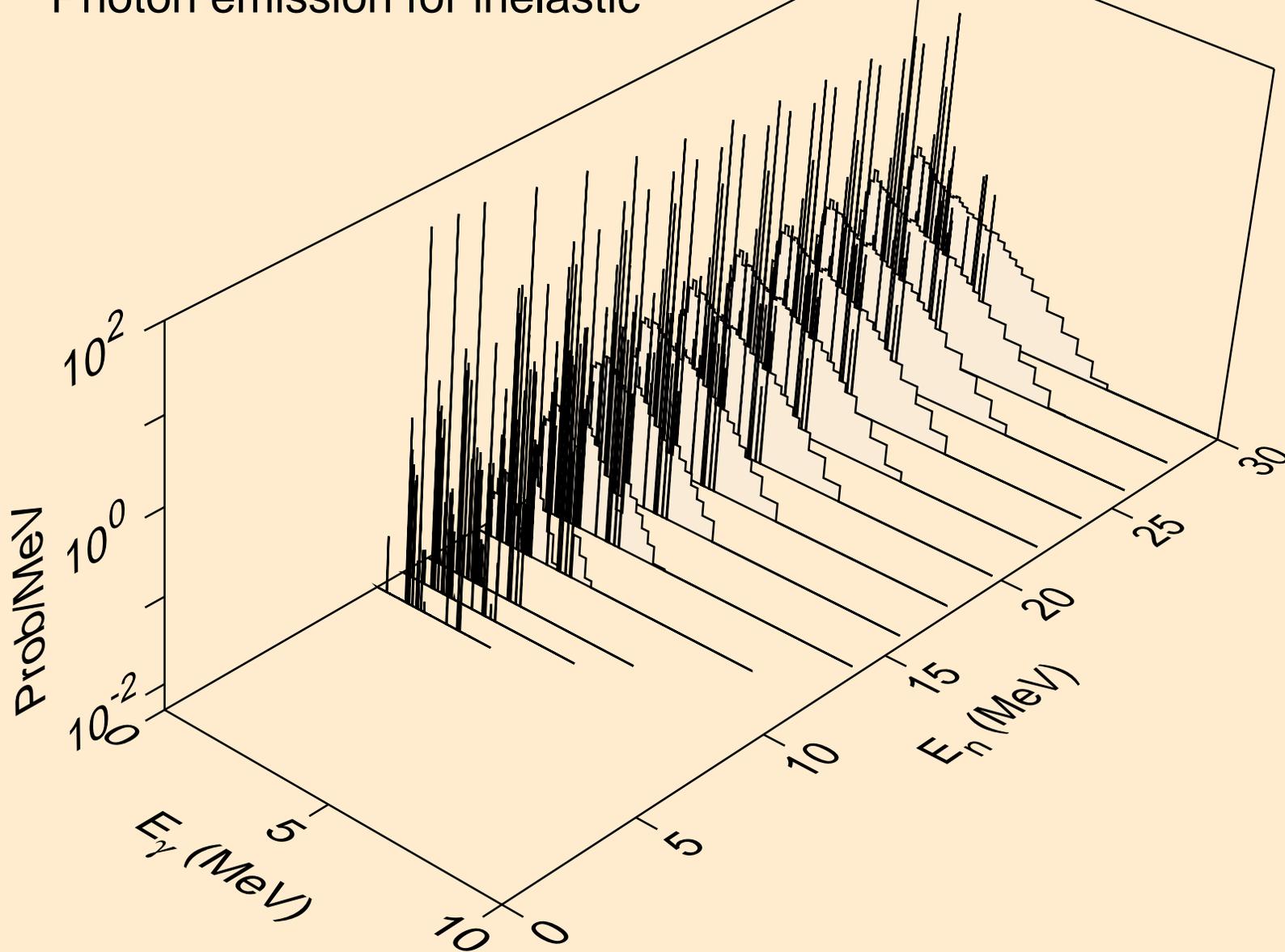Photon emission for (n,d)

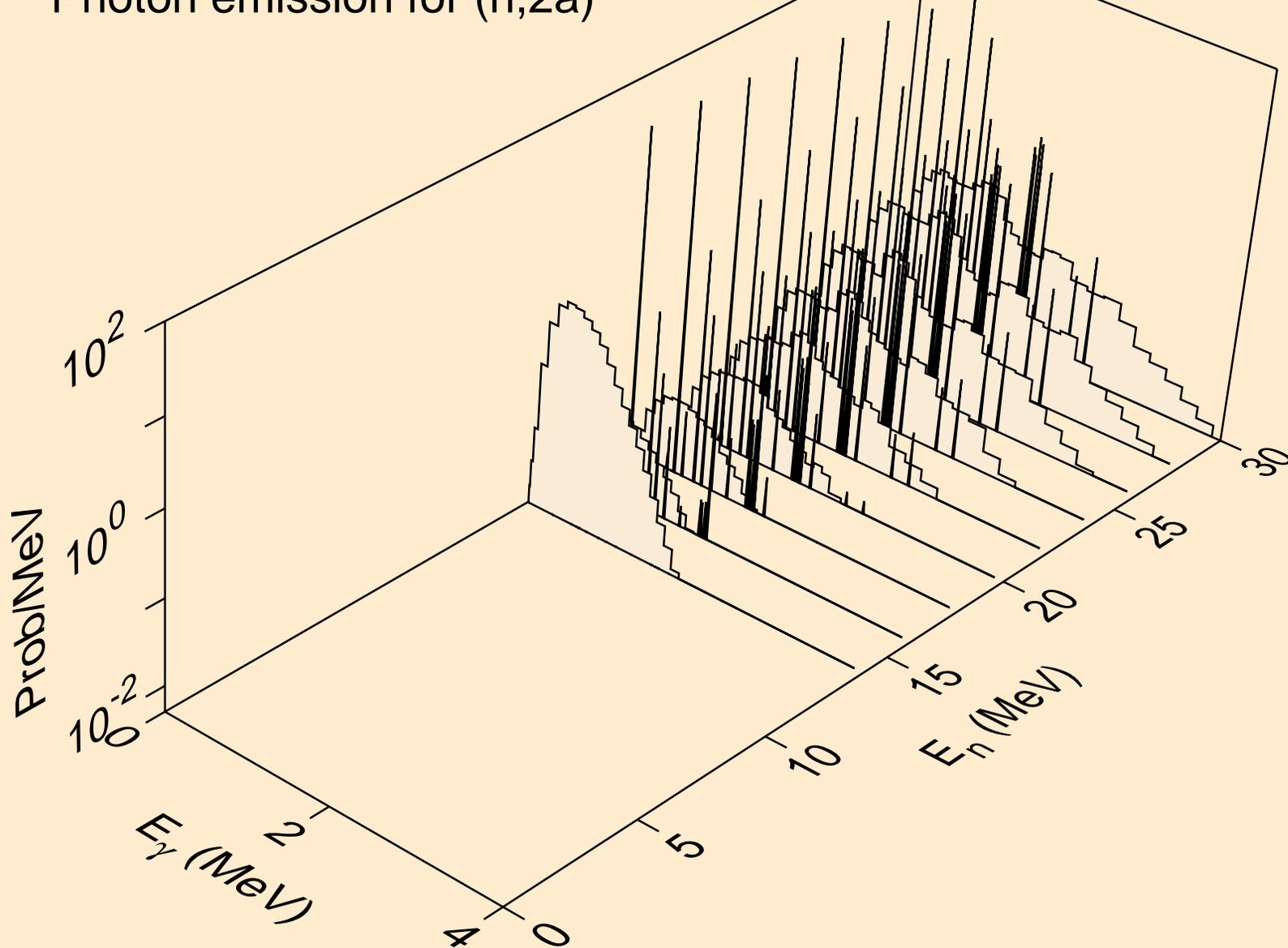SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,t)

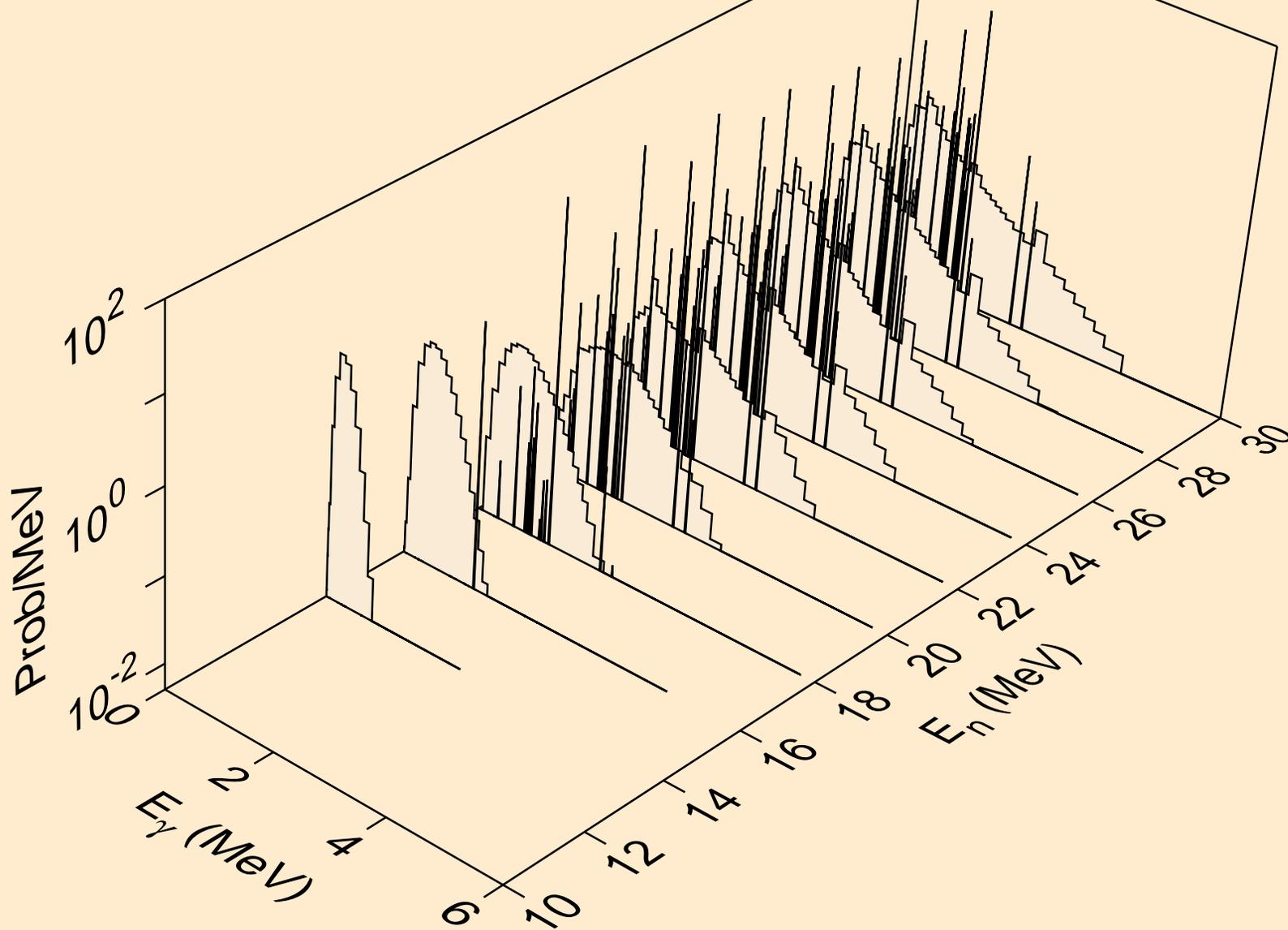SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,he3)

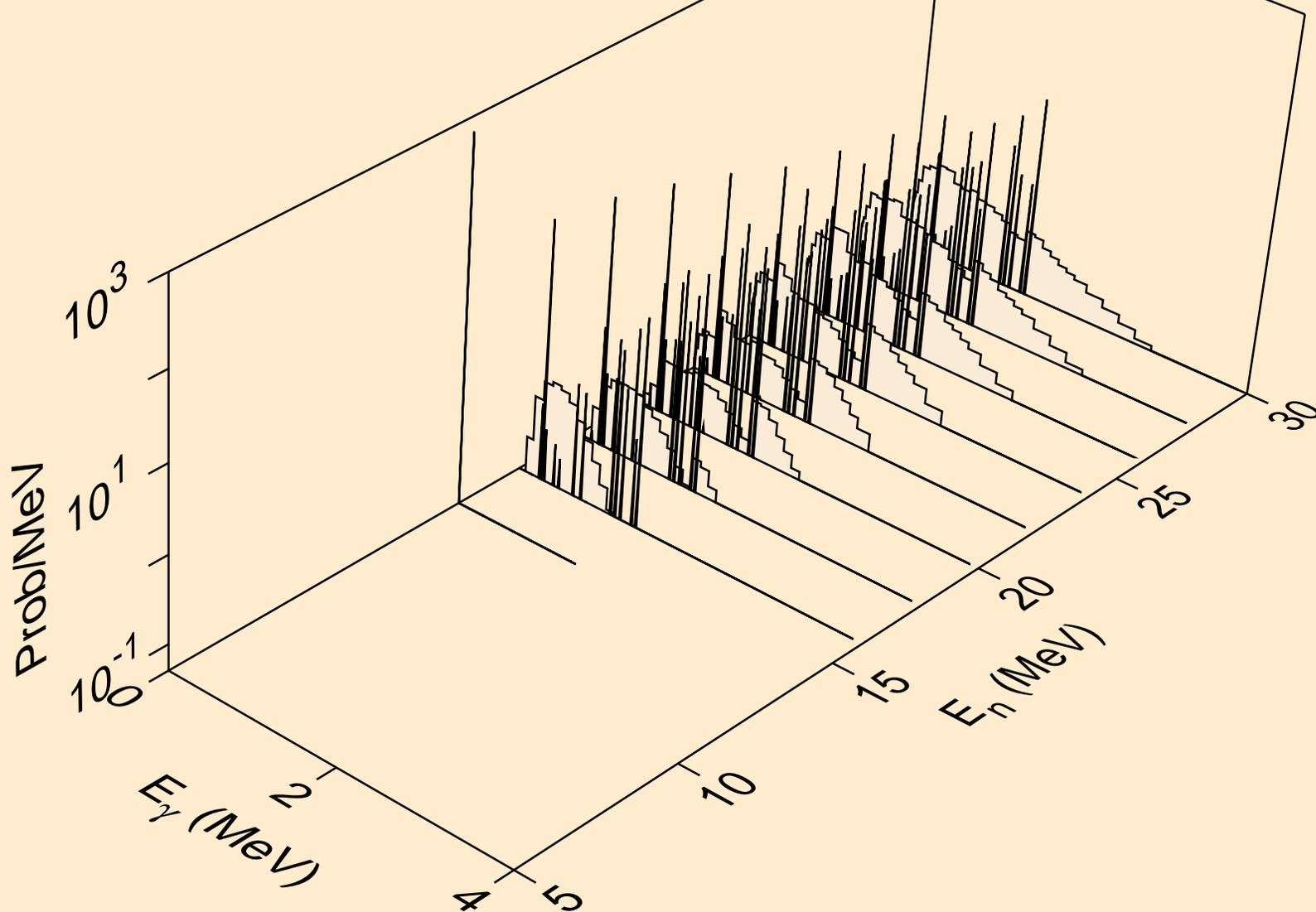SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for inelastic

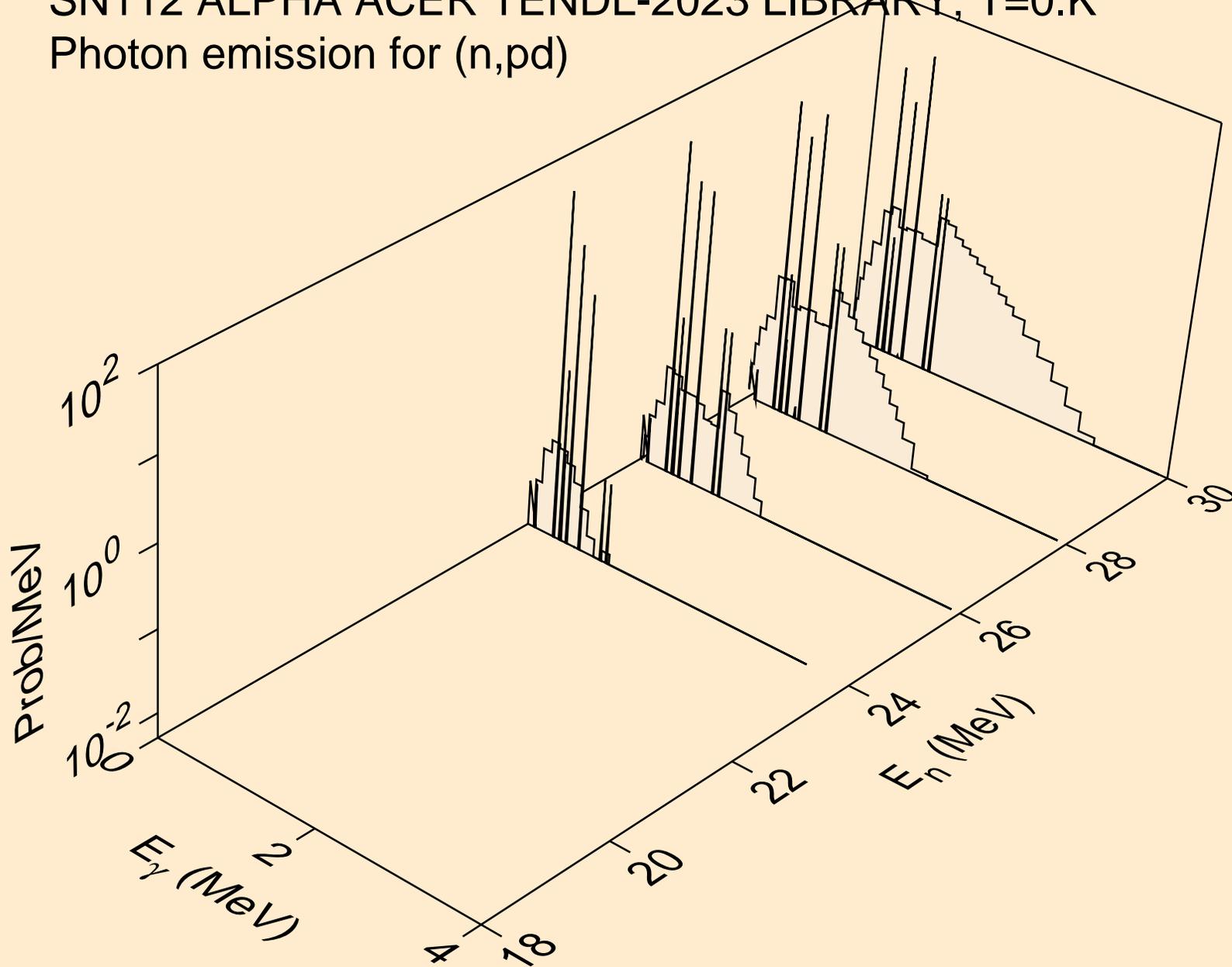SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2a)

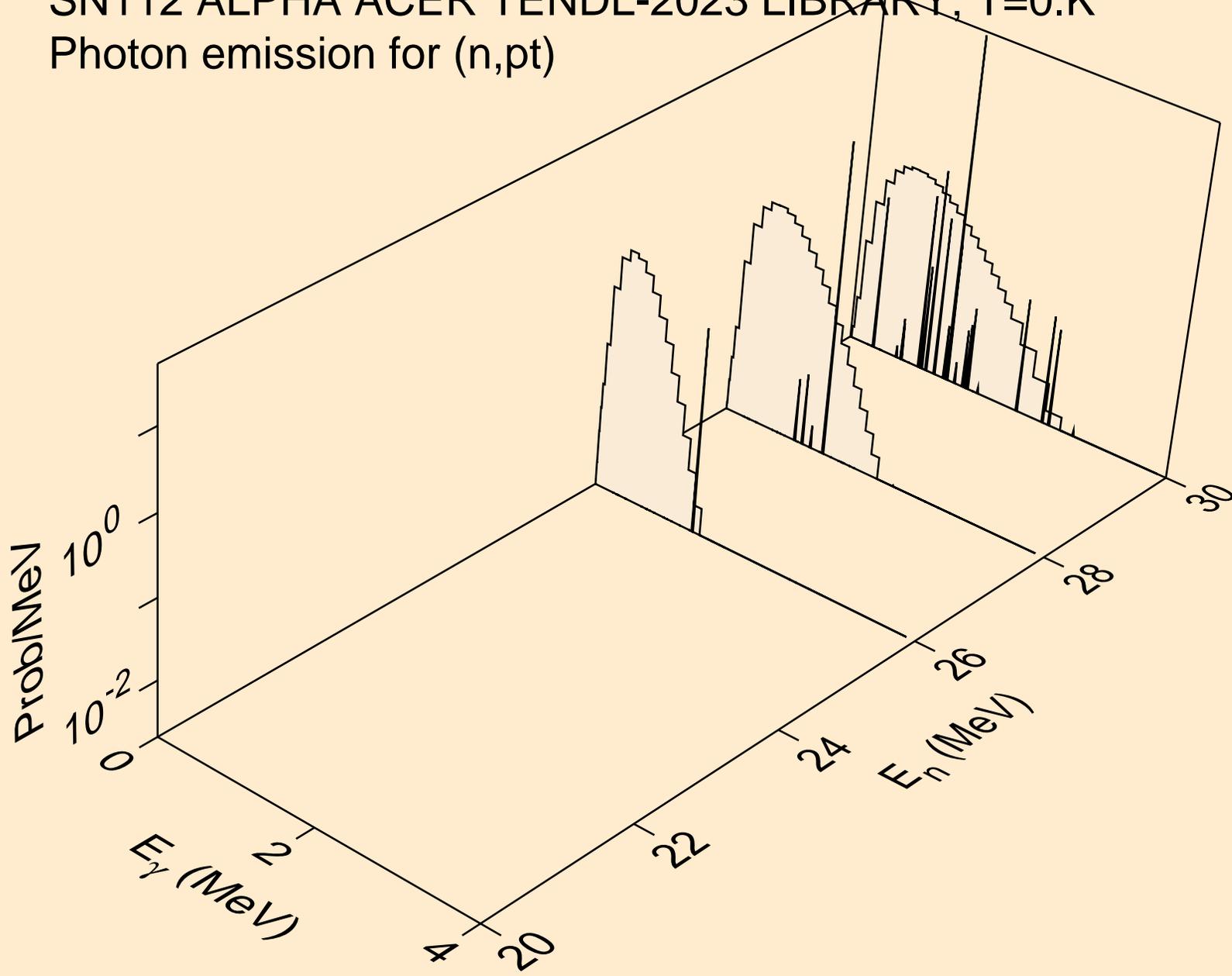SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2p)

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,pa)

E_n (MeV)
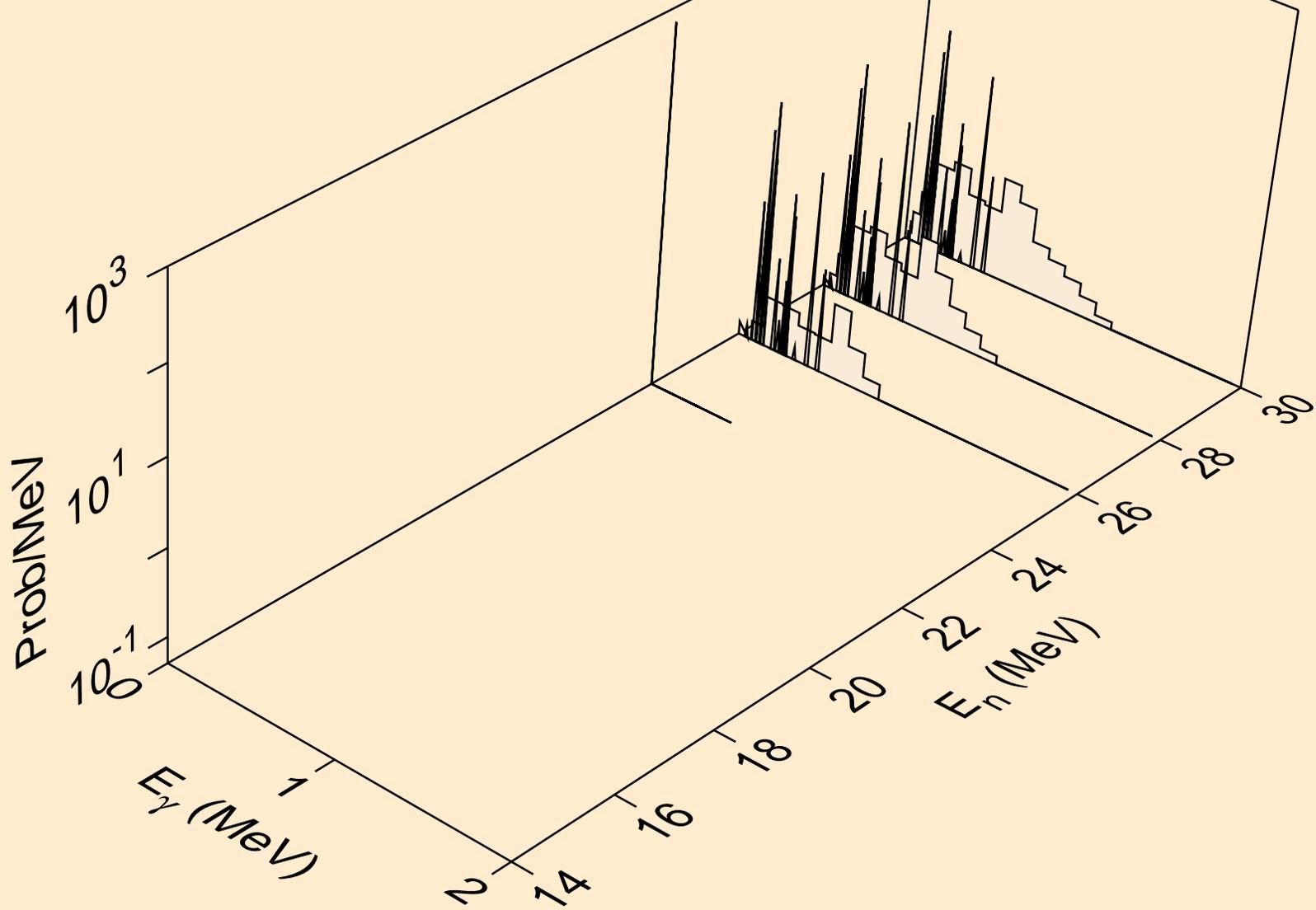
E_γ (MeV)

Prob/MeV

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,pd)

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,pt)

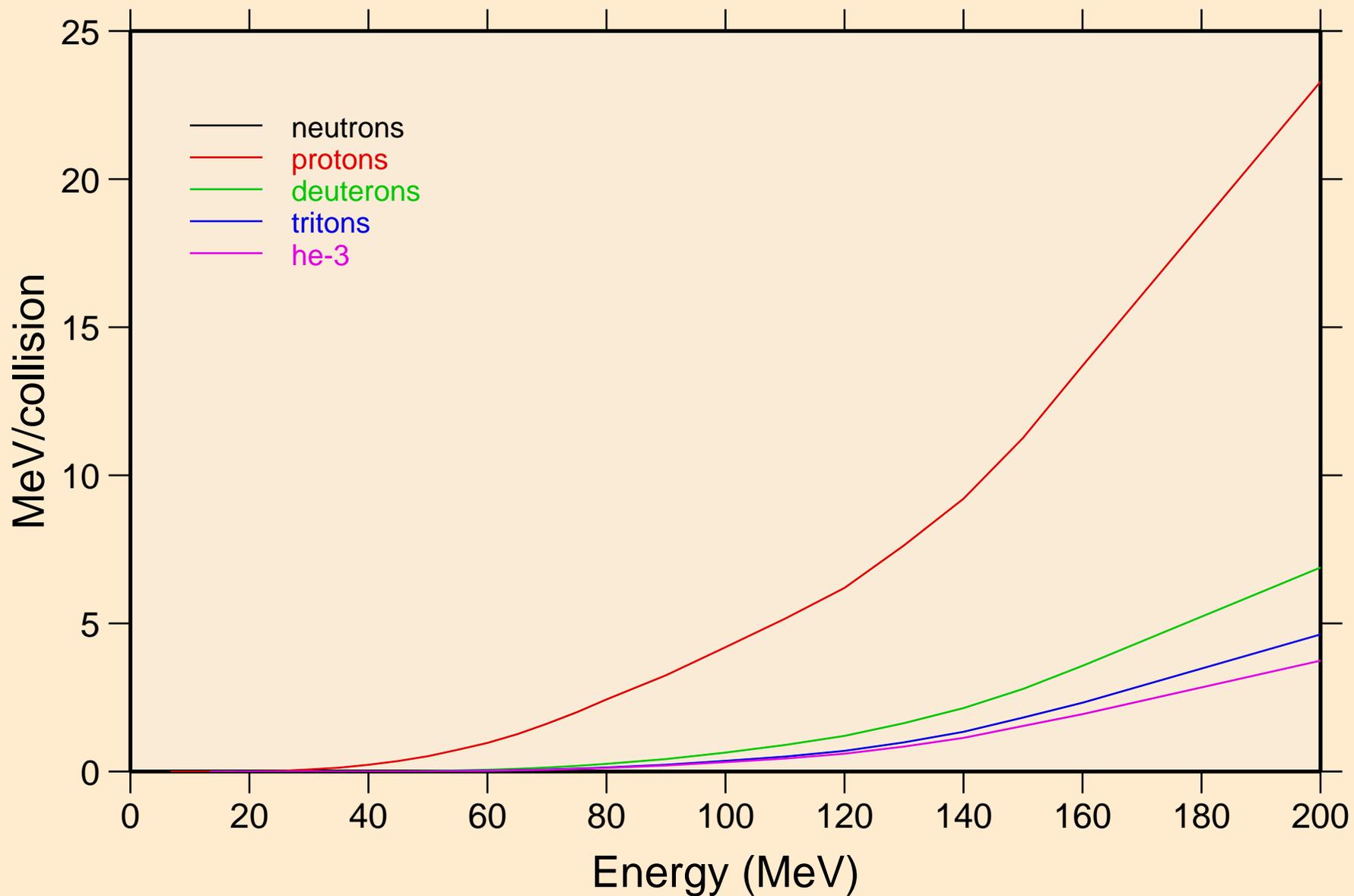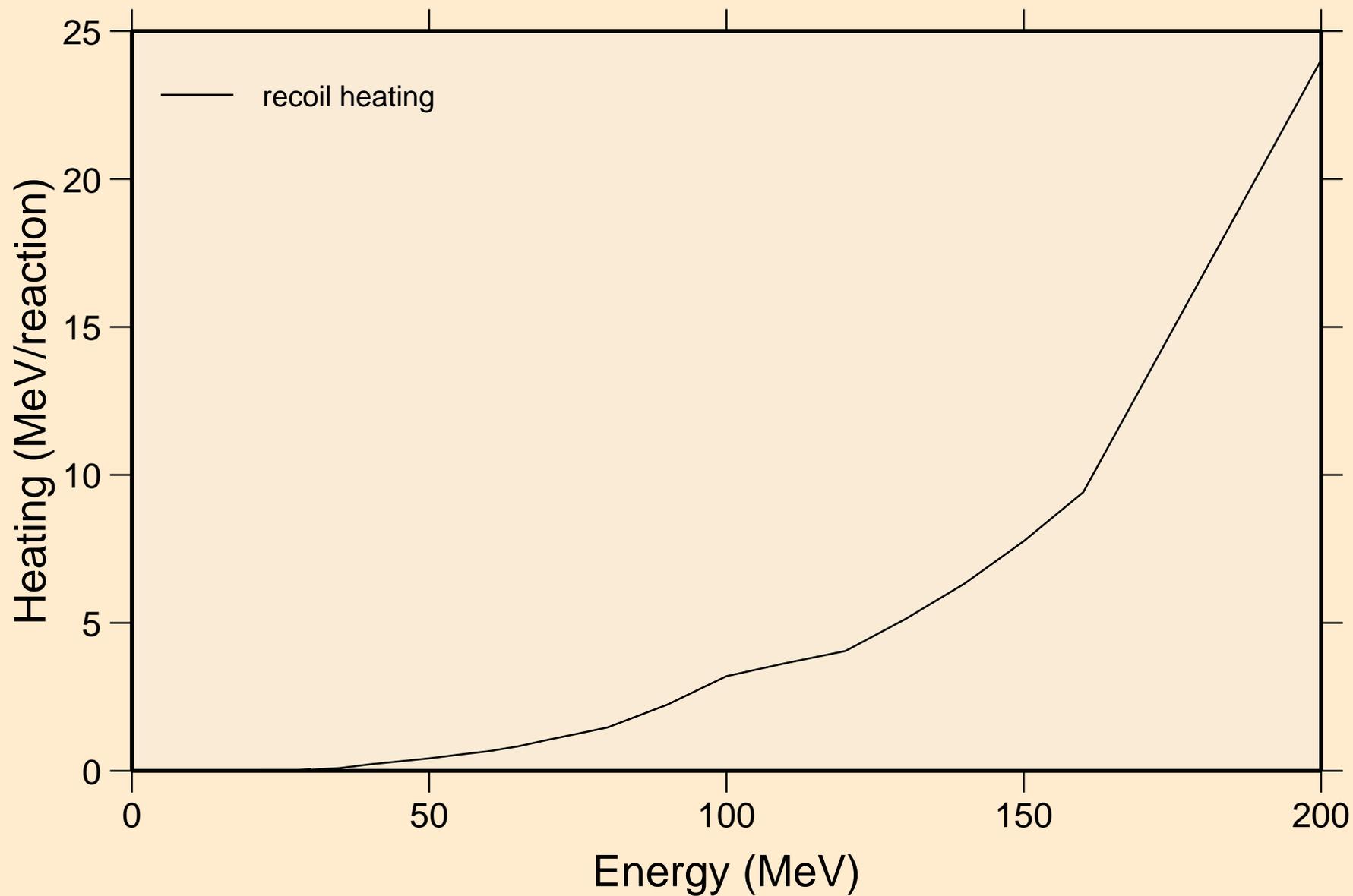SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,da)

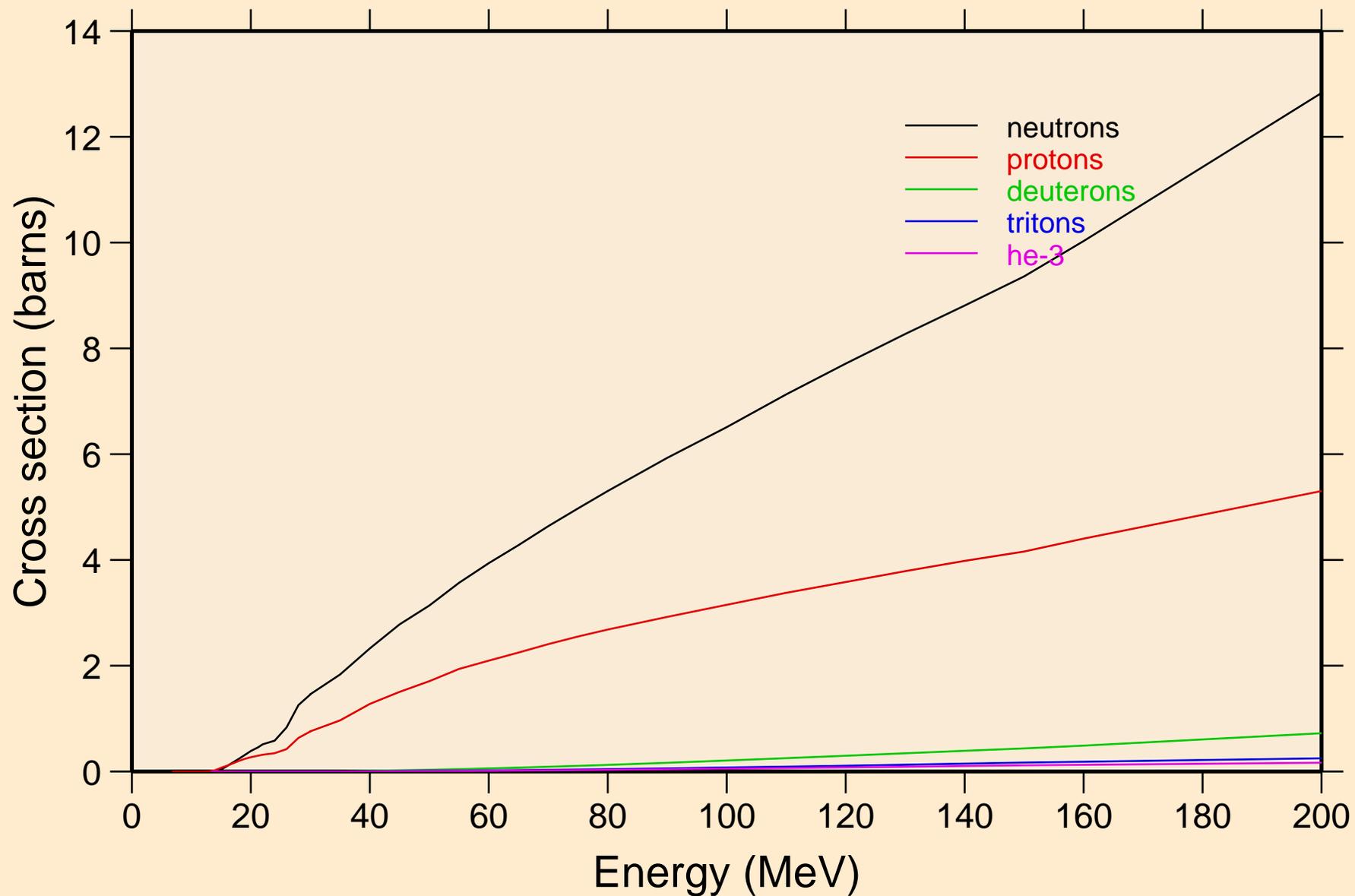SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Particle heating contributions

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

MeV/collision

Energy (MeV)
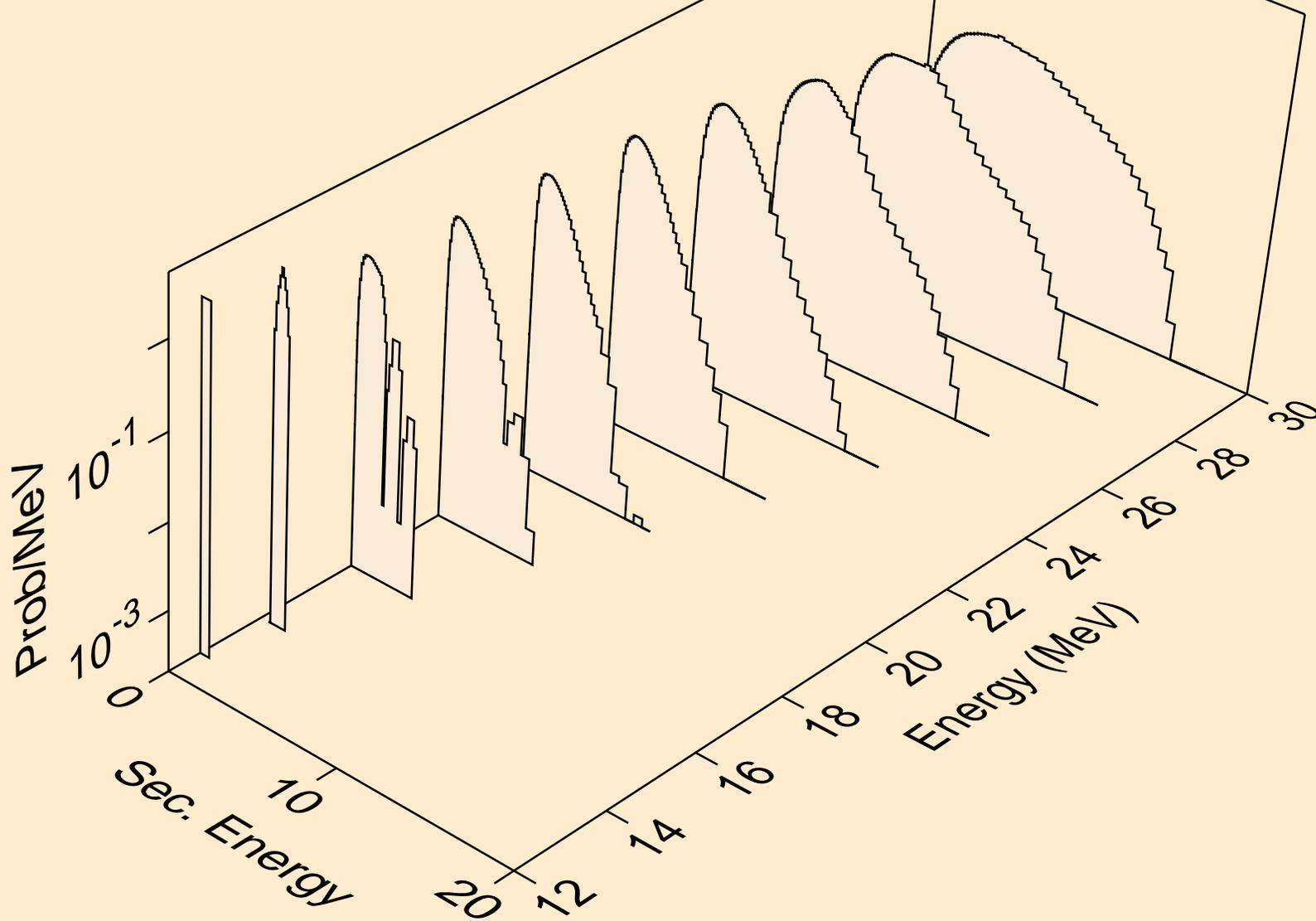
SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
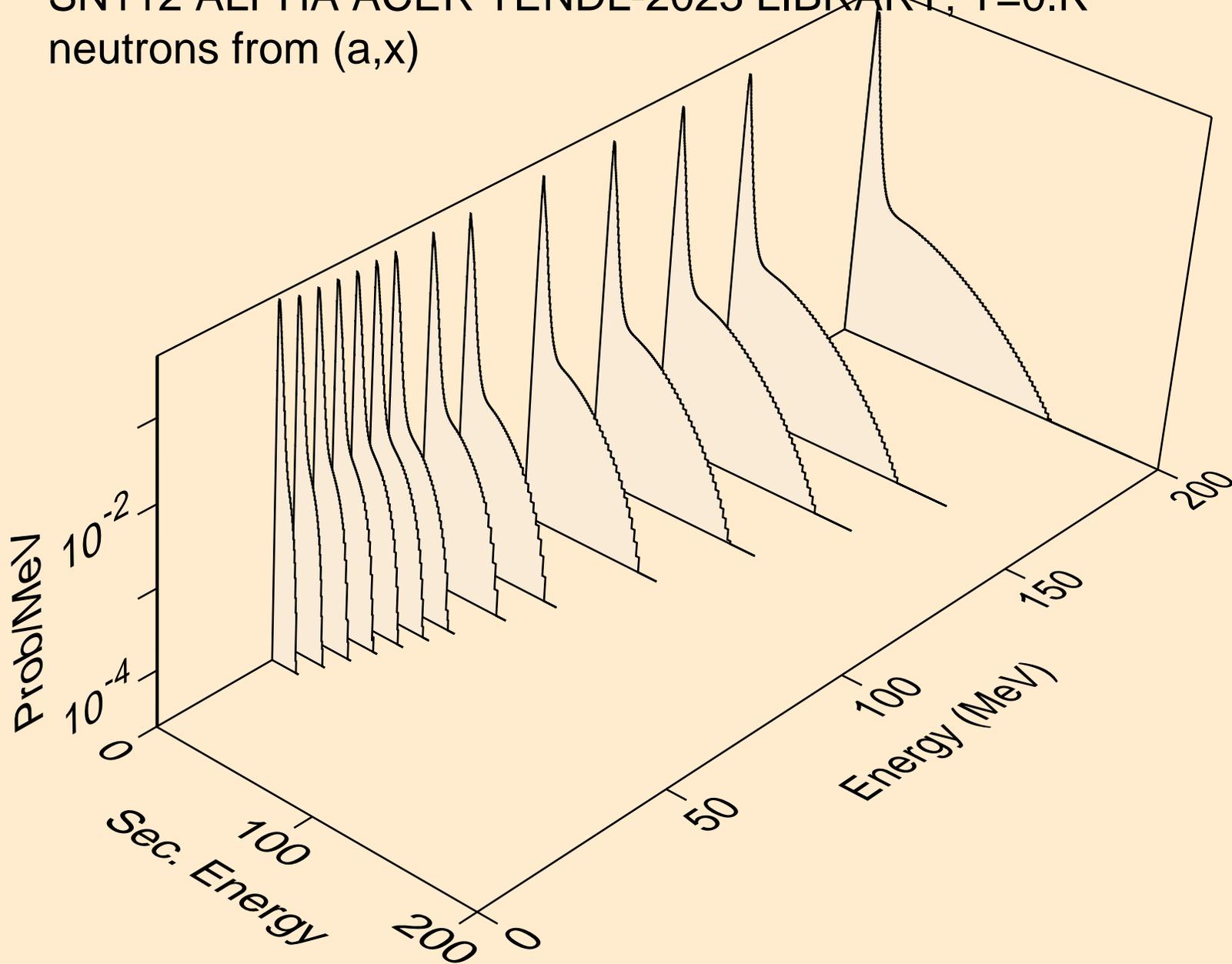Recoil Heating

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
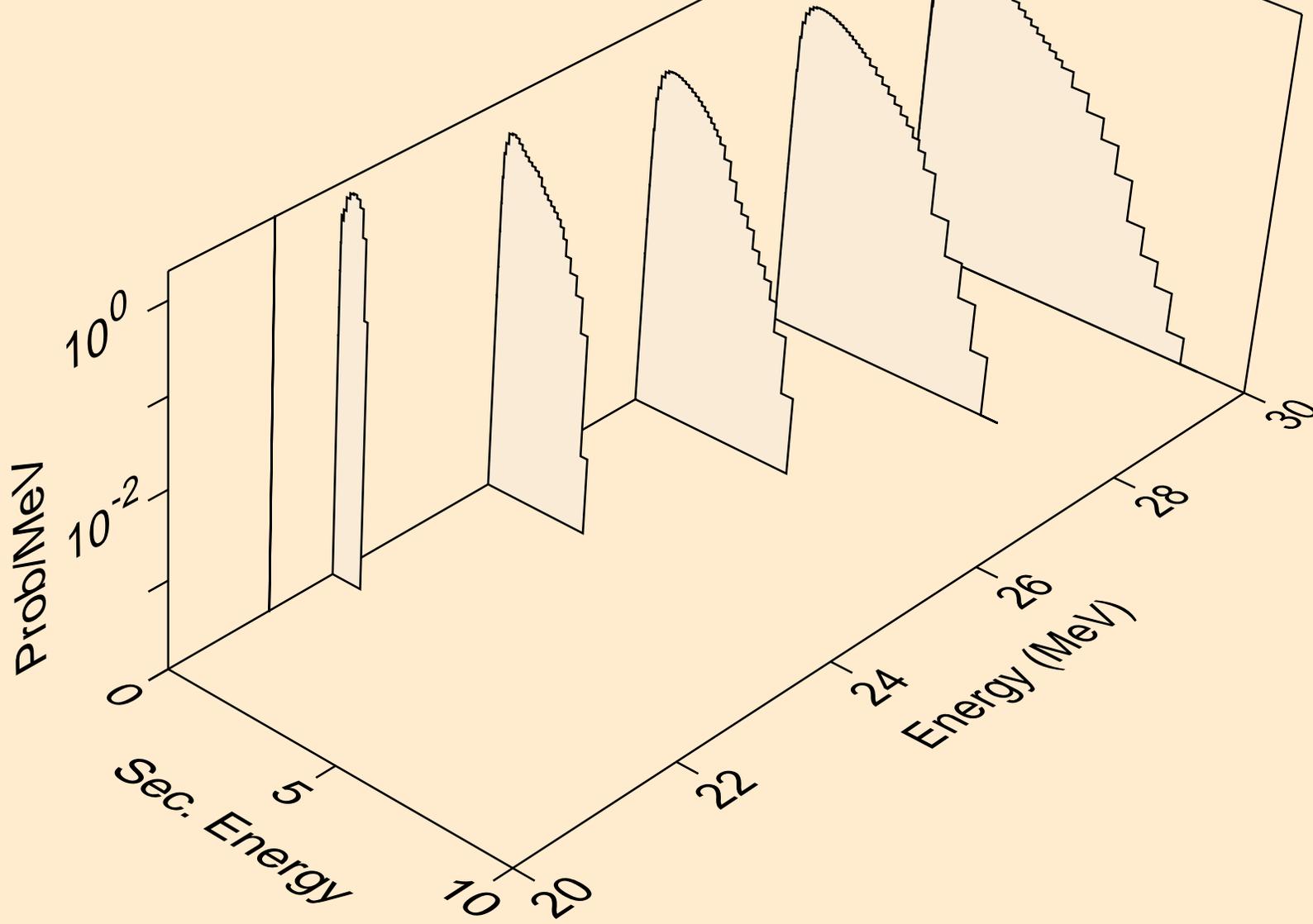Particle production cross sections

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
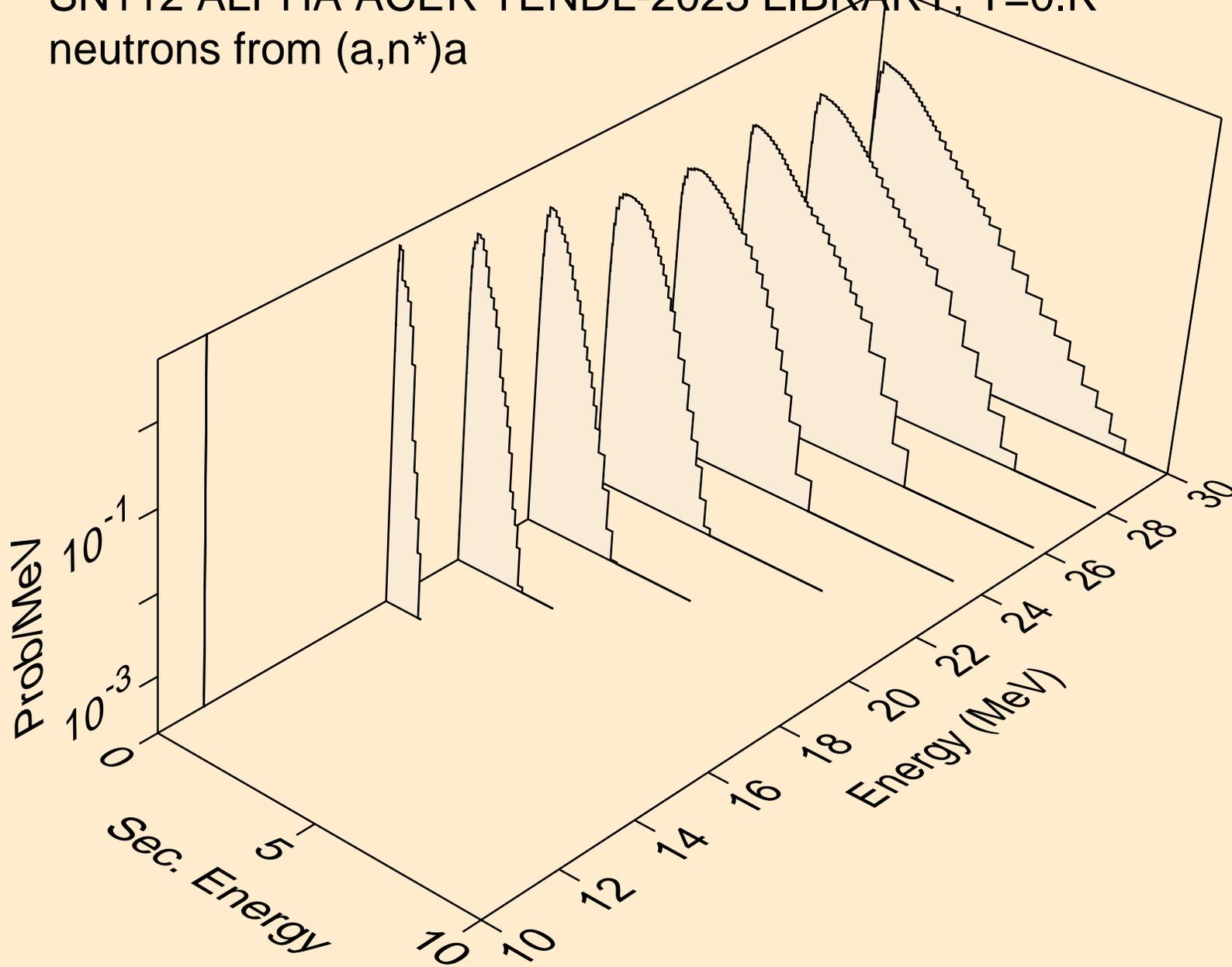neutrons from (a,n)

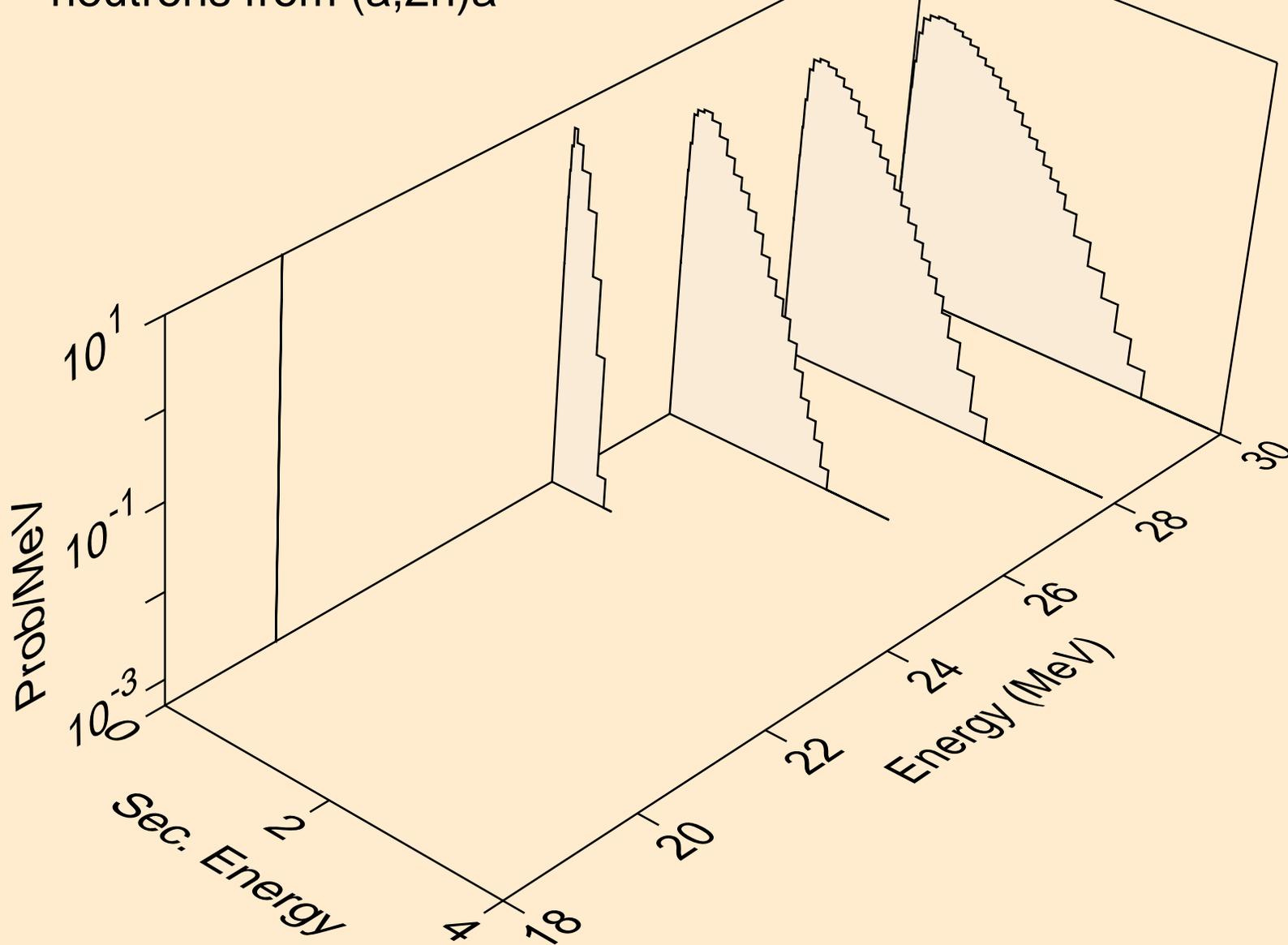SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (a,x)

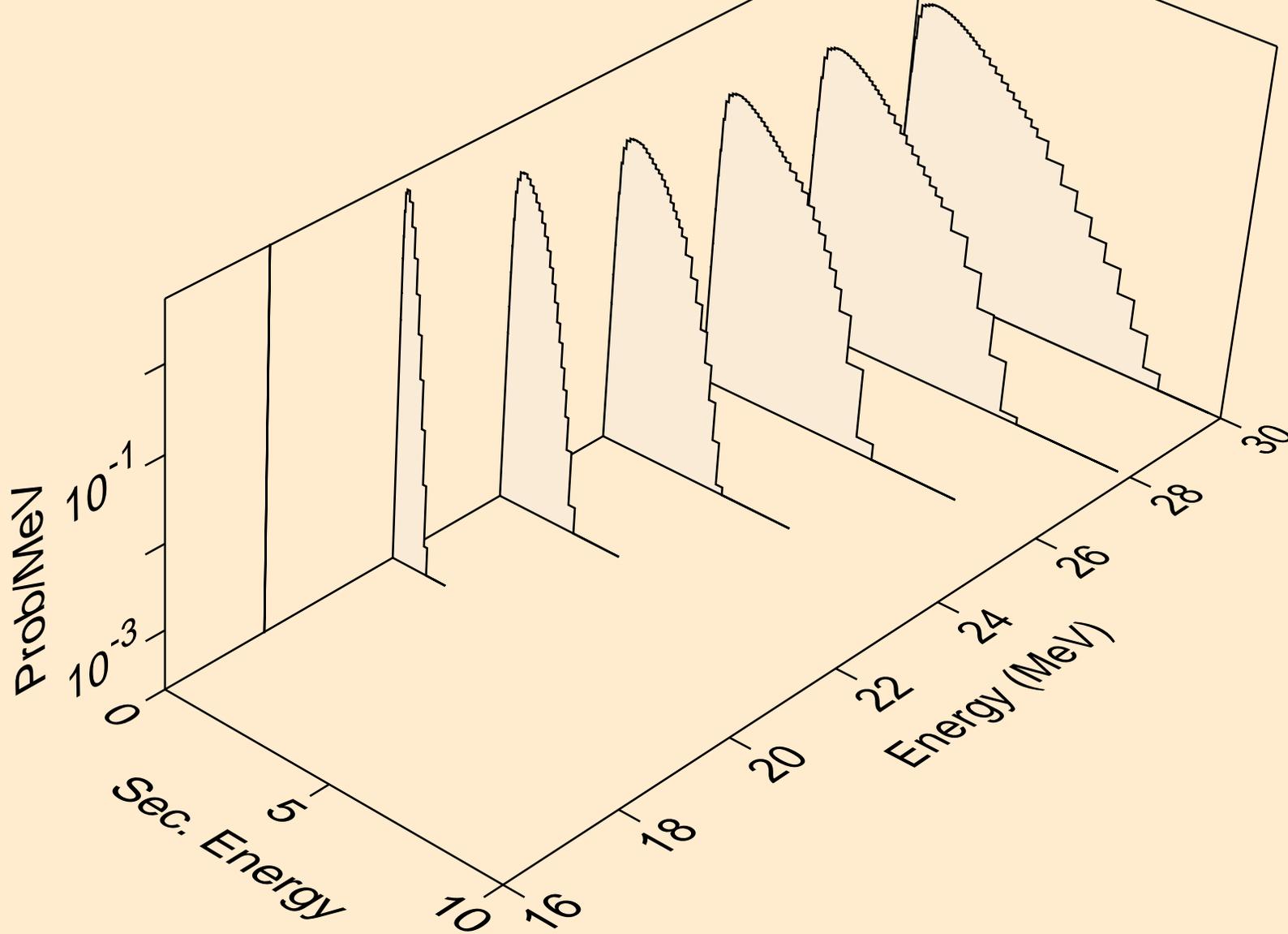SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (a,2n)

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (a,n*)a

Prob/MeV

10^{-1}

10^{-3}

0

5

10

Sec. Energy

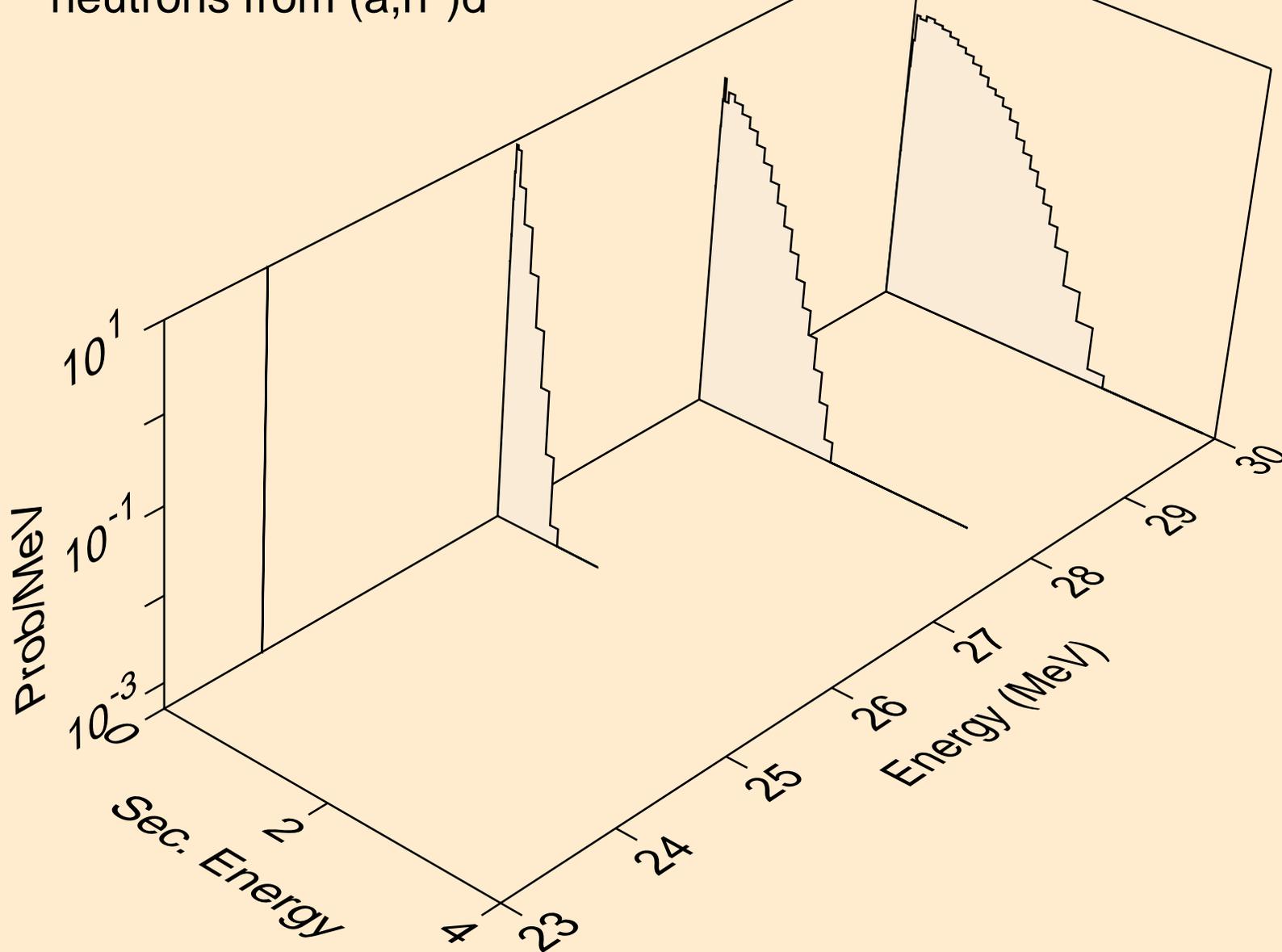Energy (MeV)

10 12 14 16 18 20 22 24 26 28 30

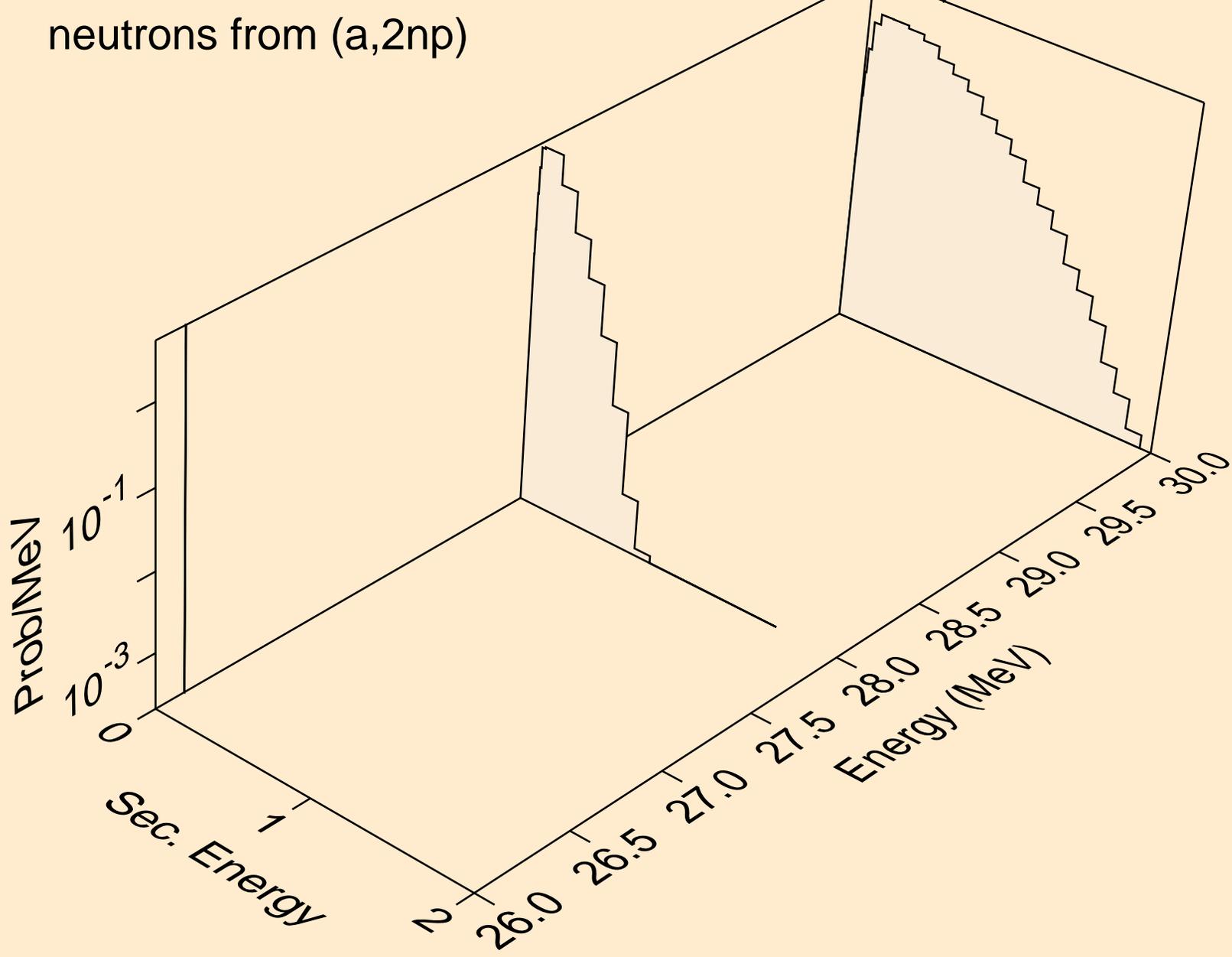SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (a,2n)a

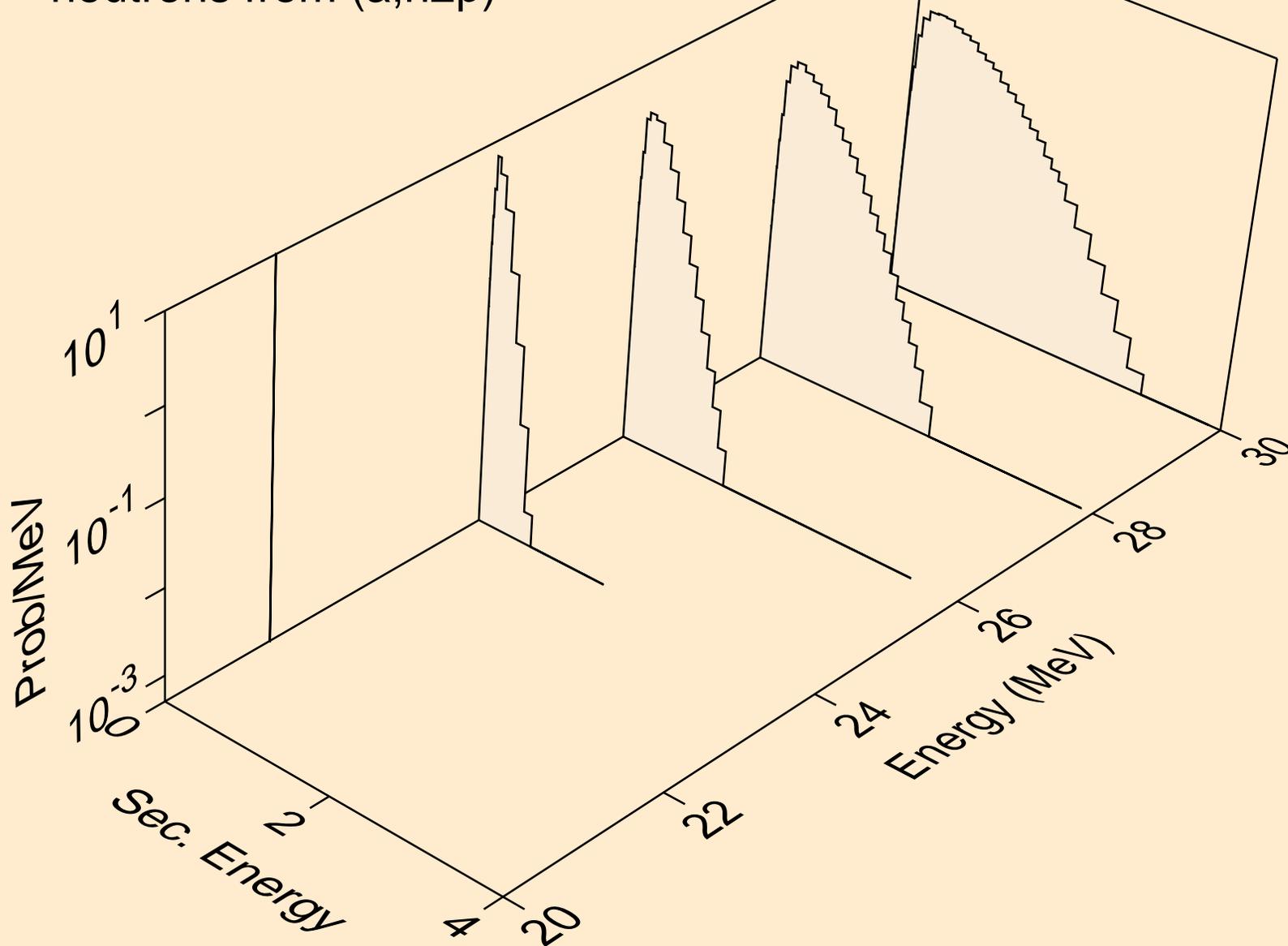SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (a,n*)p

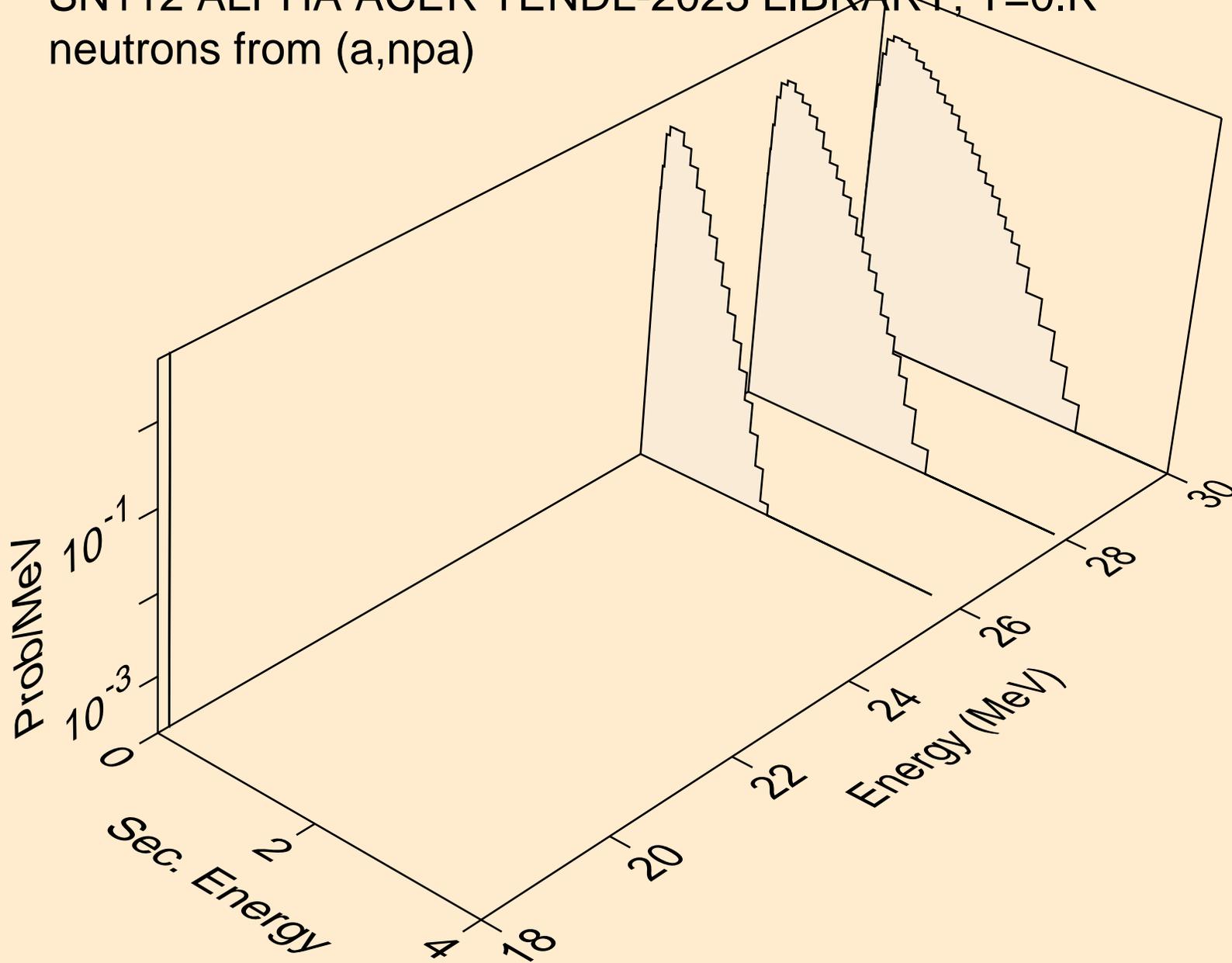SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (a,n*)d

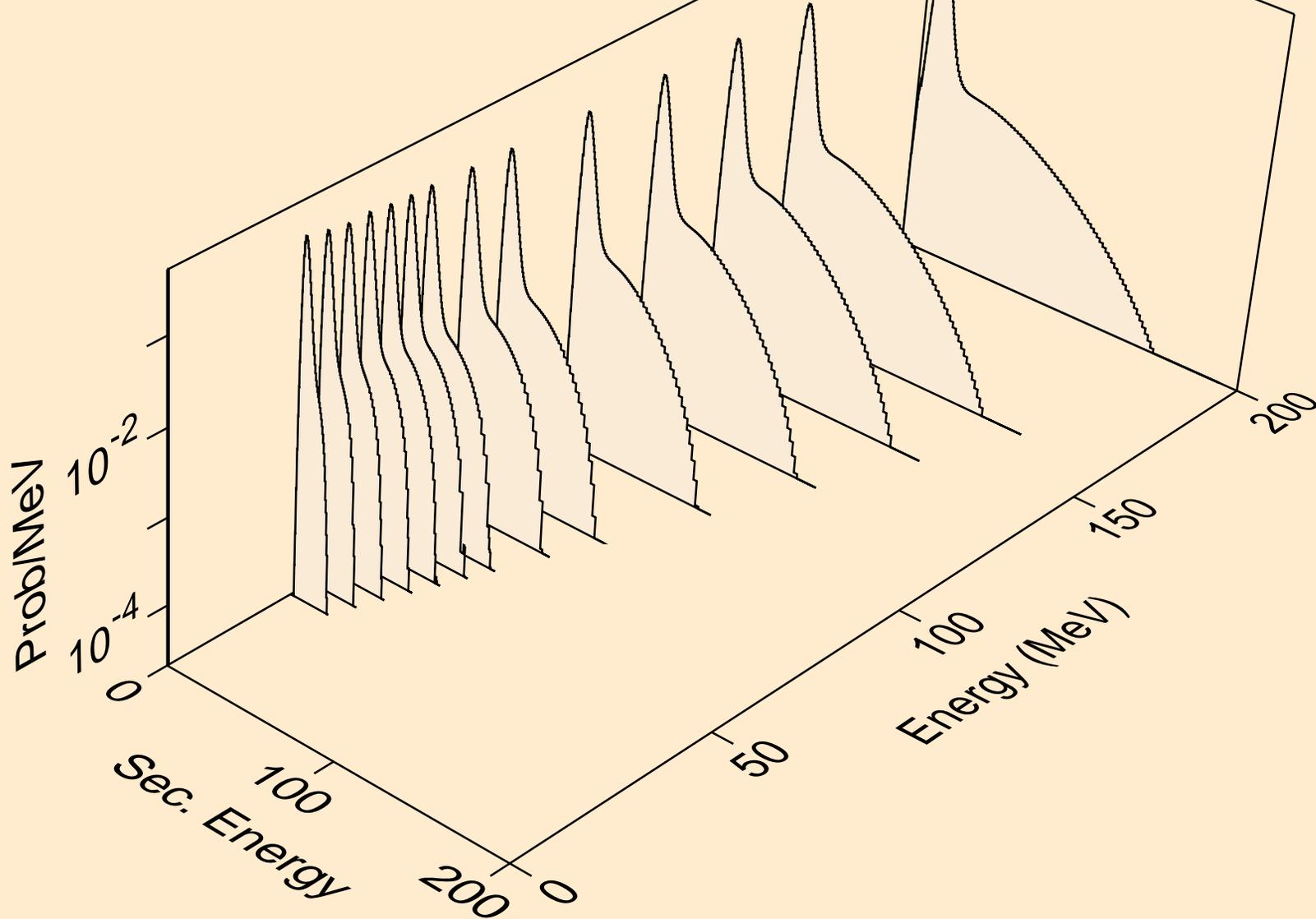SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (a,2np)

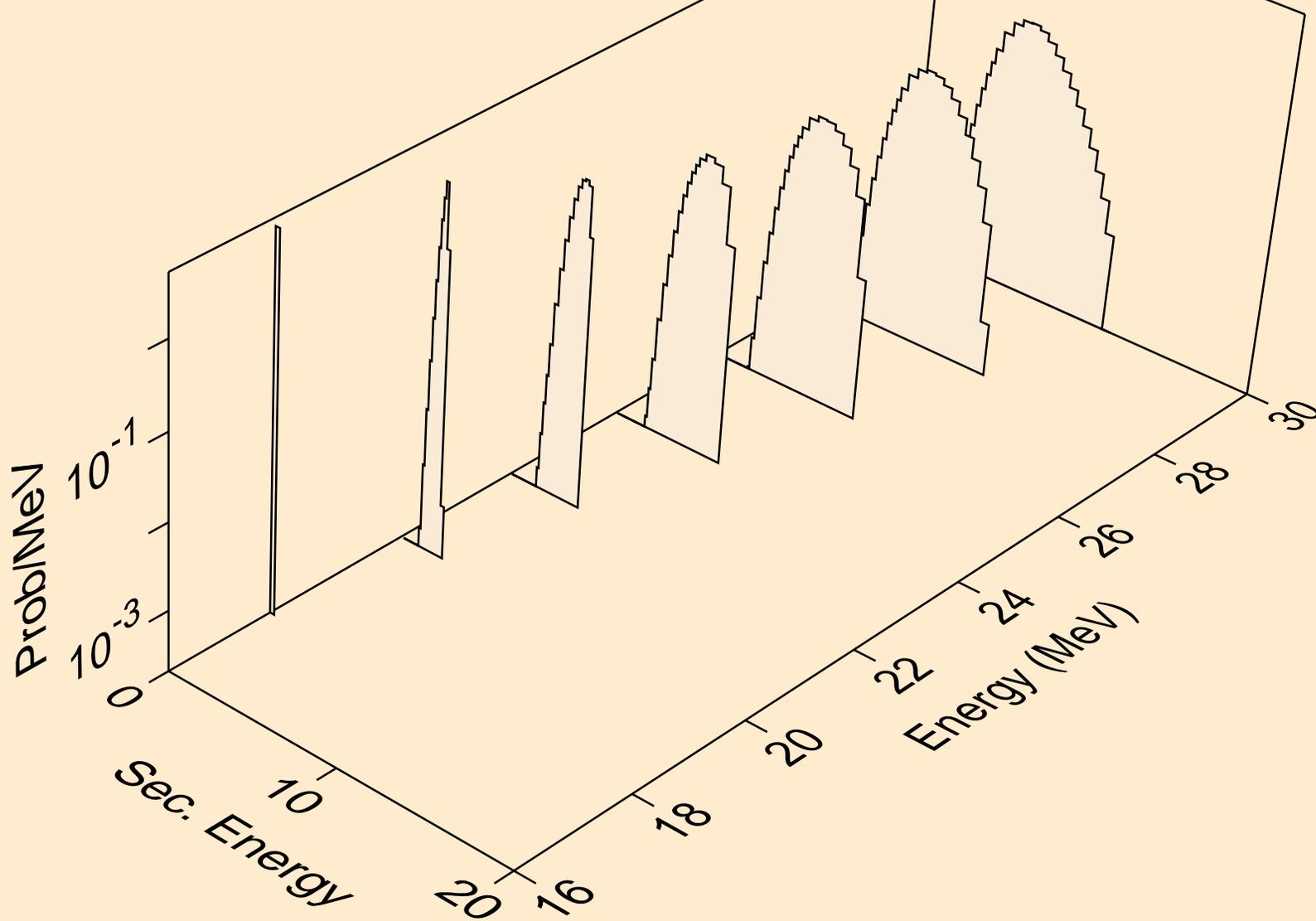SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (a,n2p)

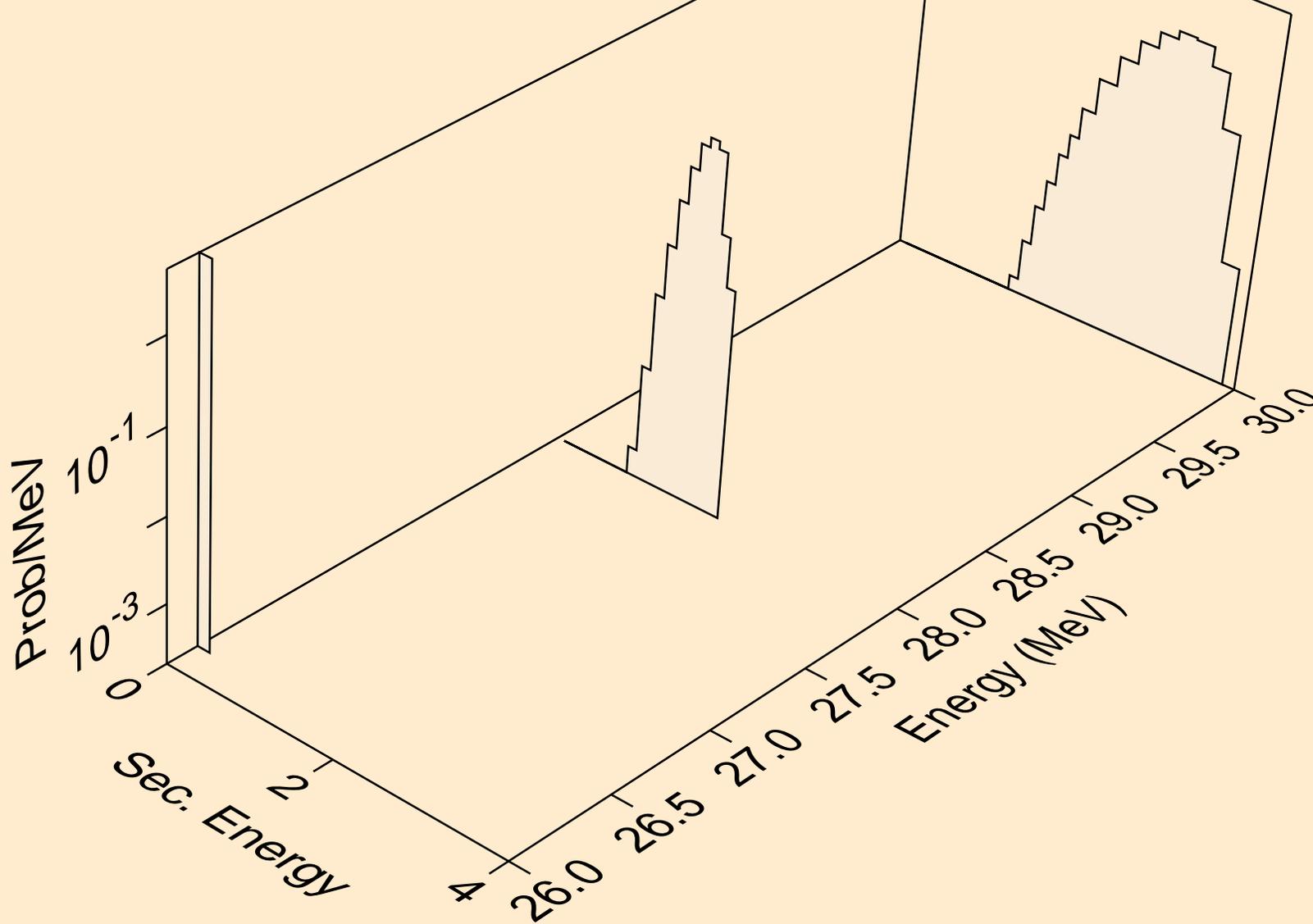SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (a,npa)

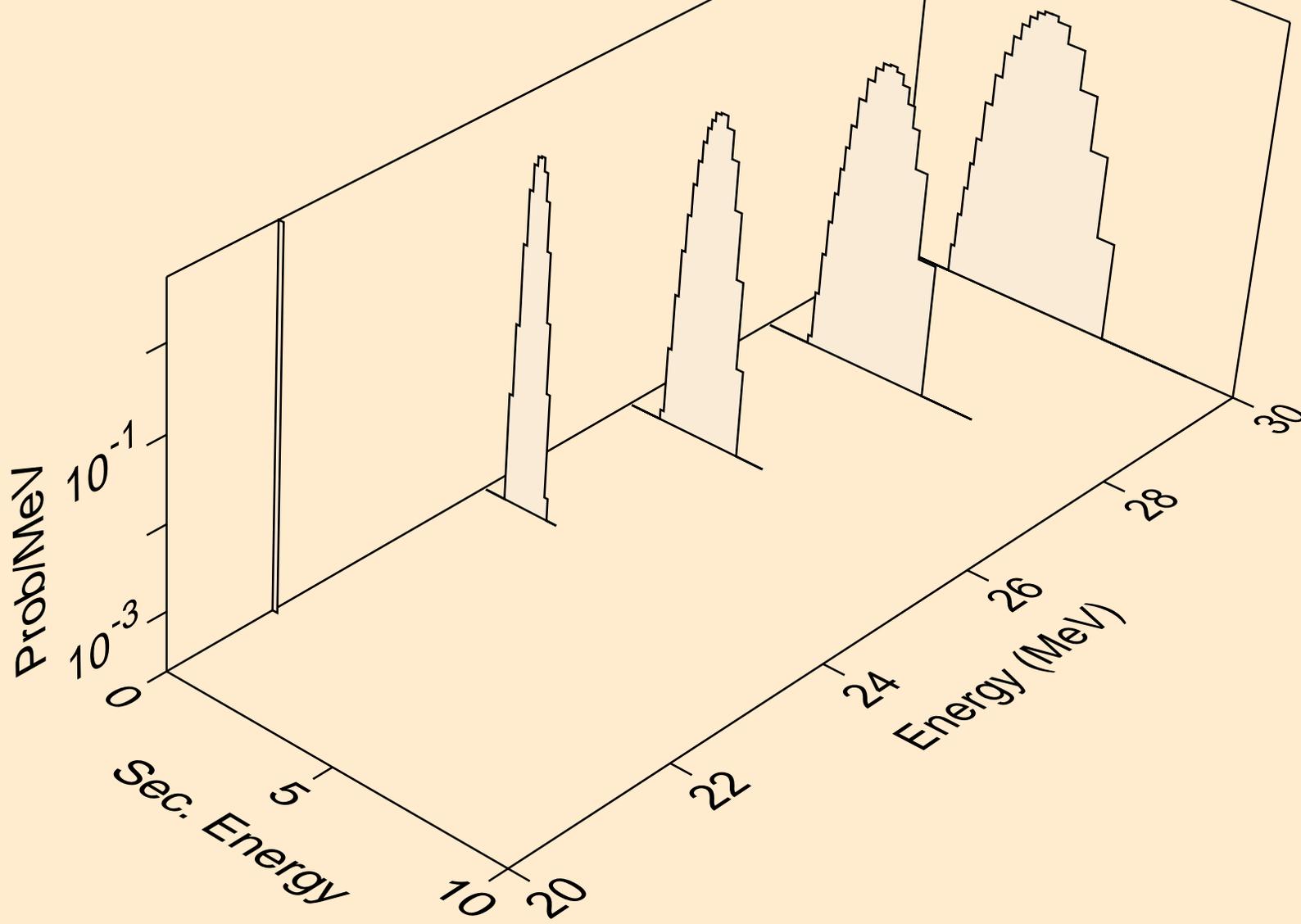SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
protons from (a,x)

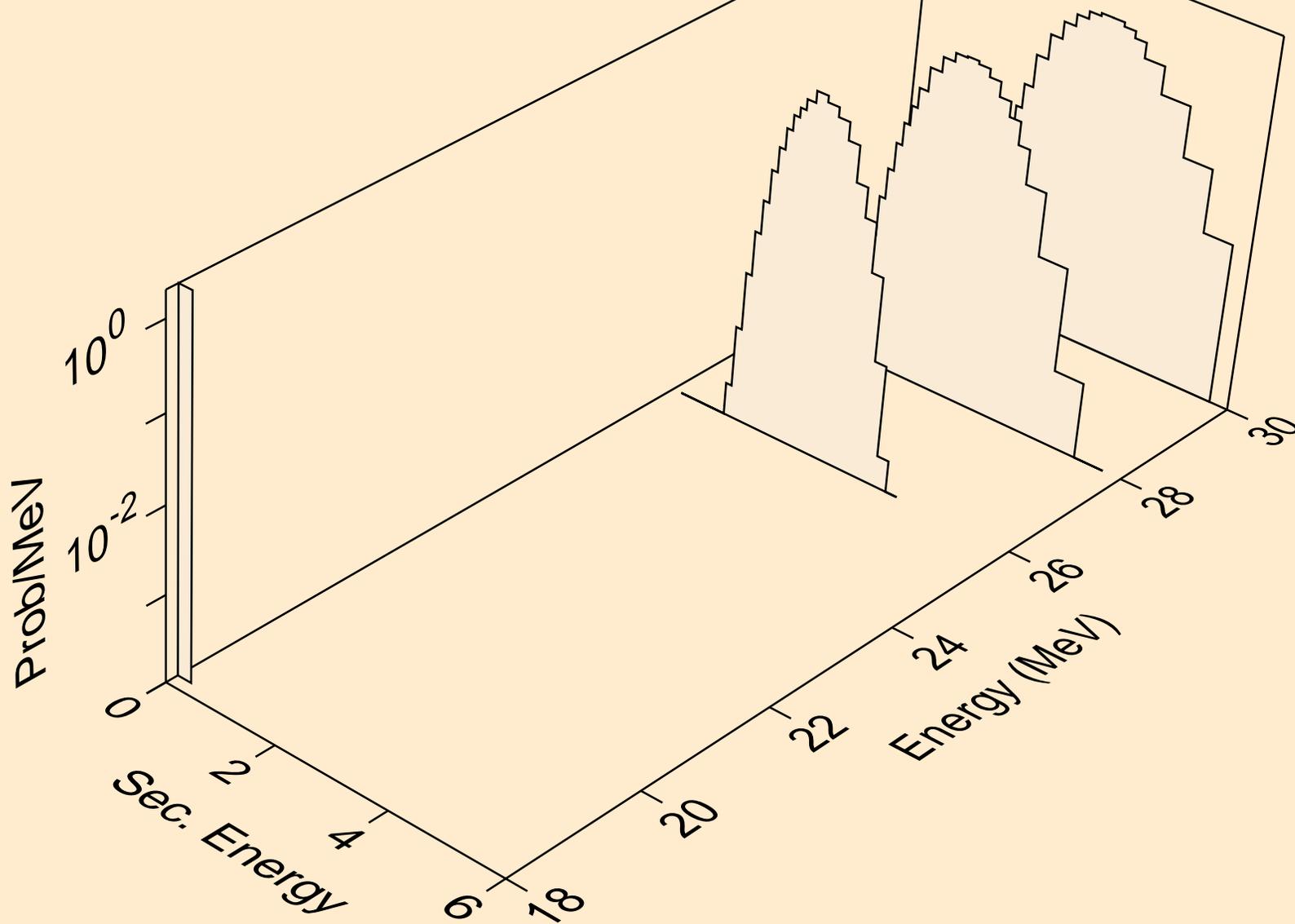SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
protons from (a,n*)p

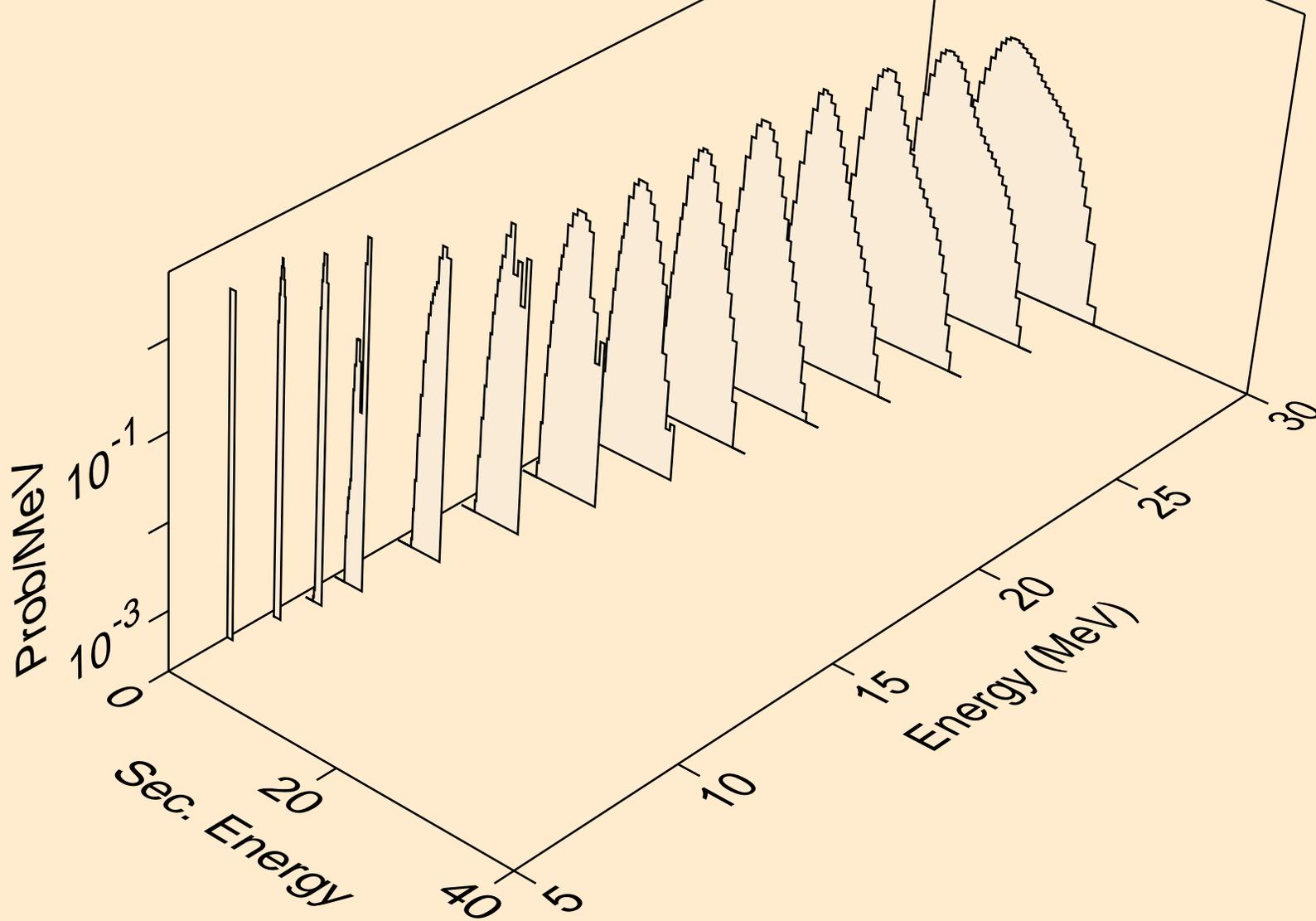SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
protons from (a,2np)

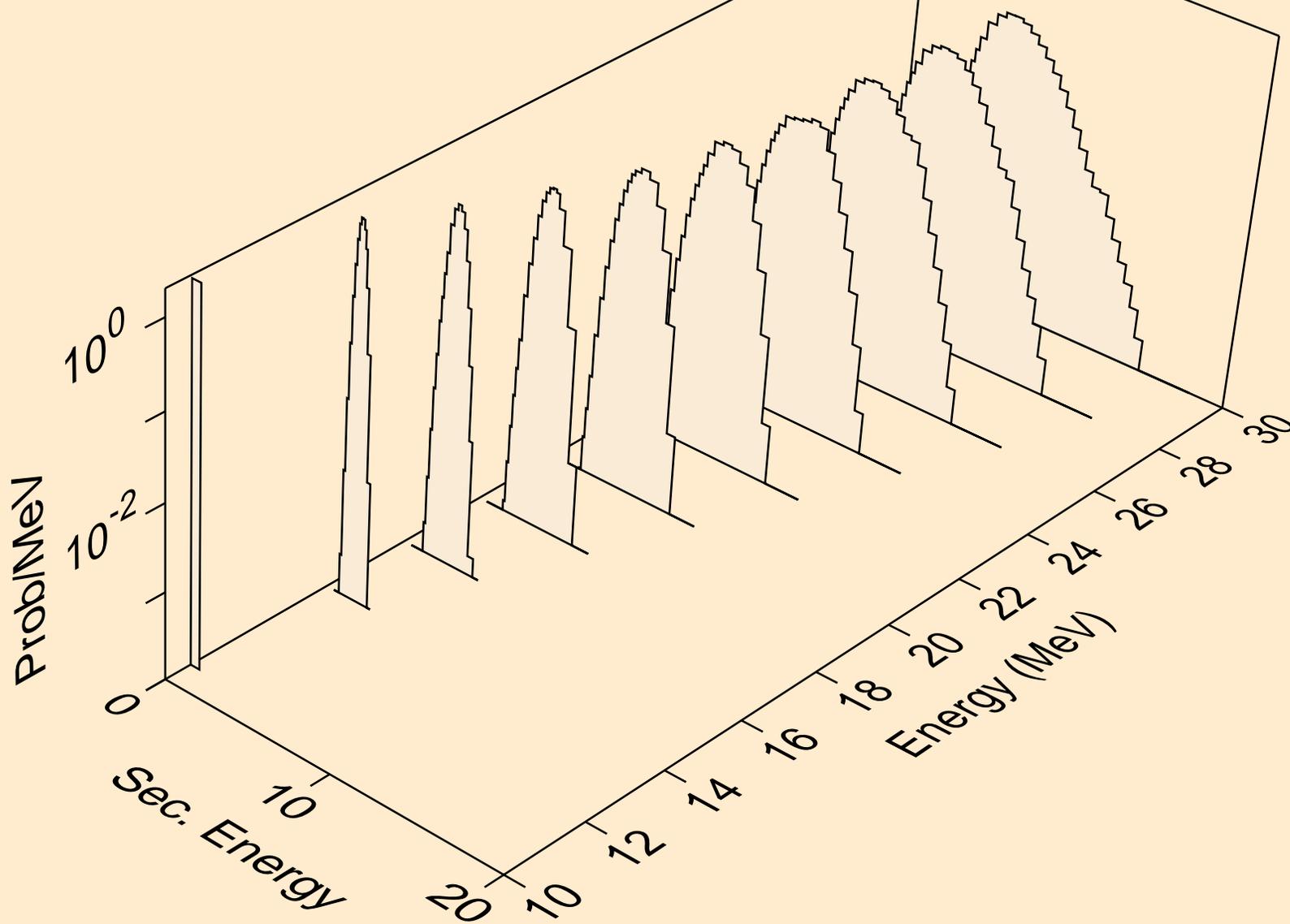SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
protons from (a,n2p)

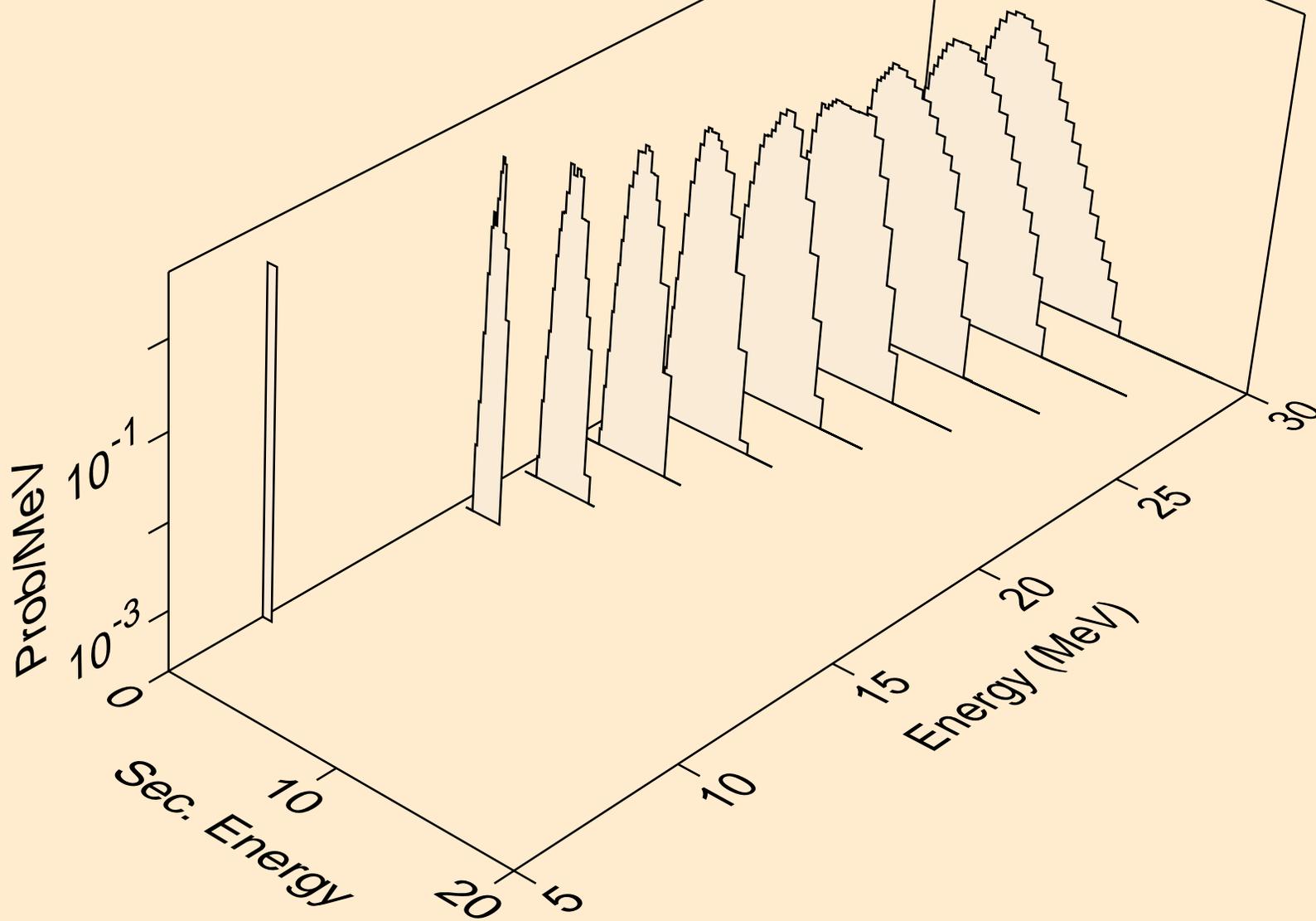SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
protons from (a,npa)

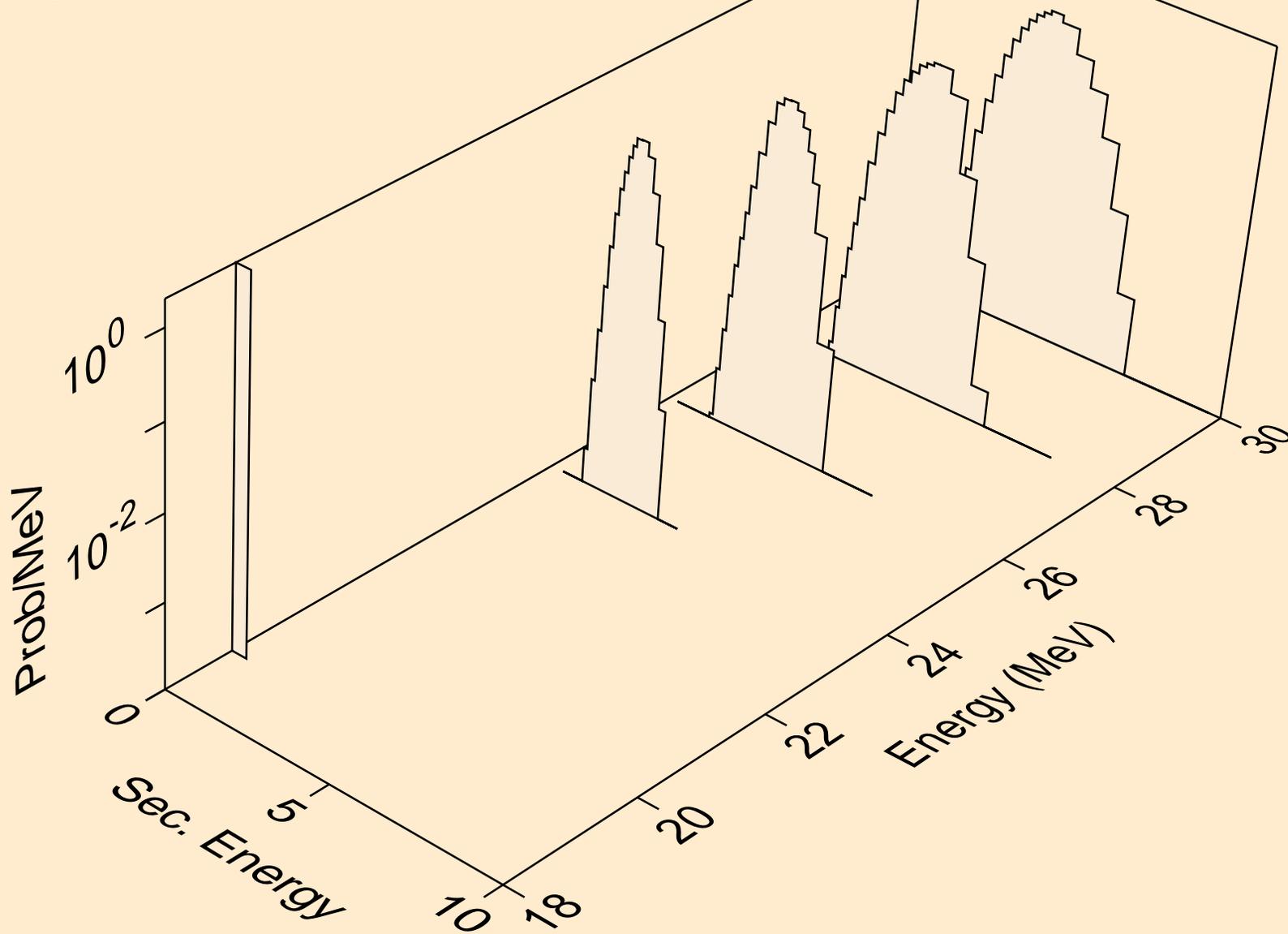SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
protons from (a,p)

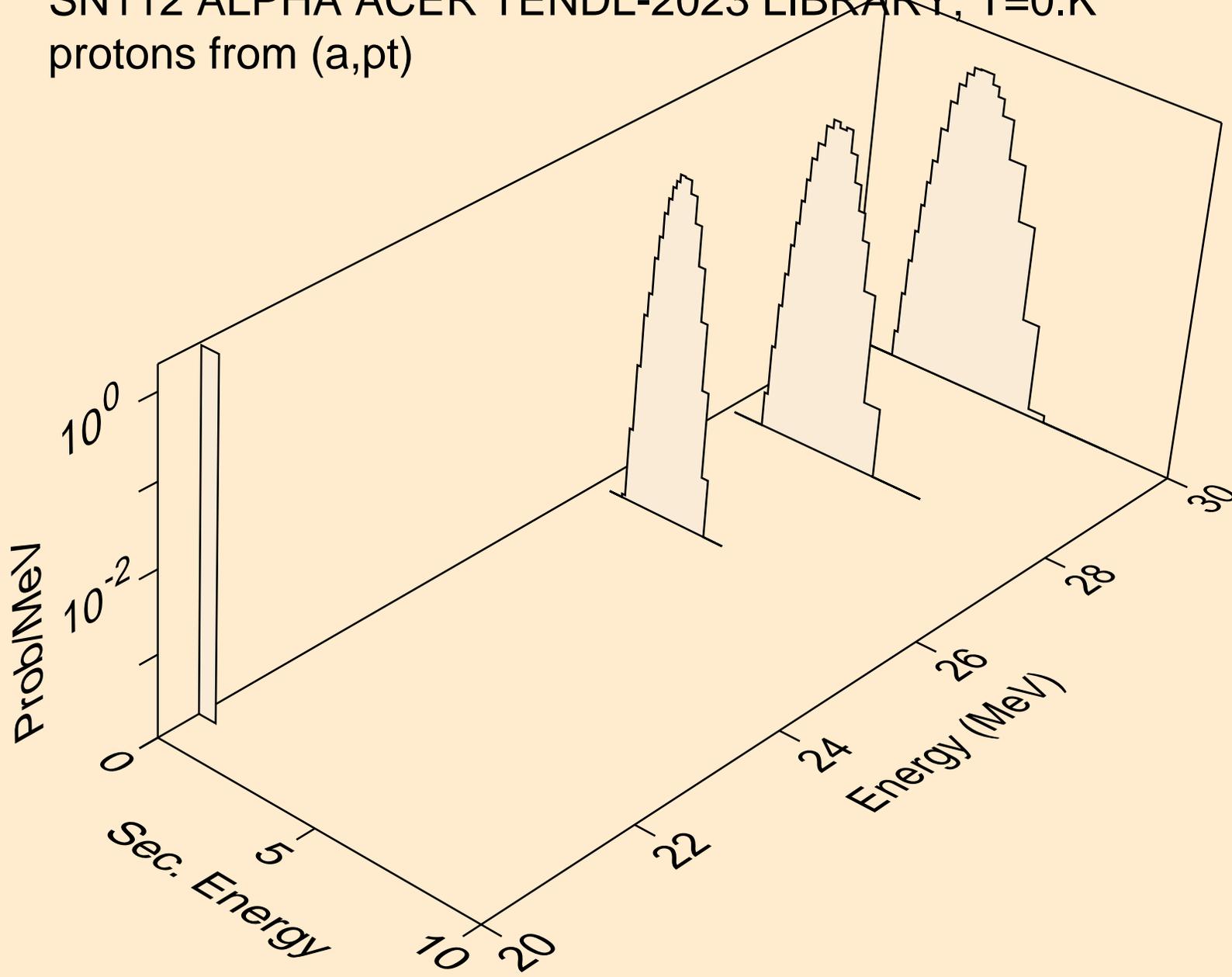SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
protons from (a,2p)

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
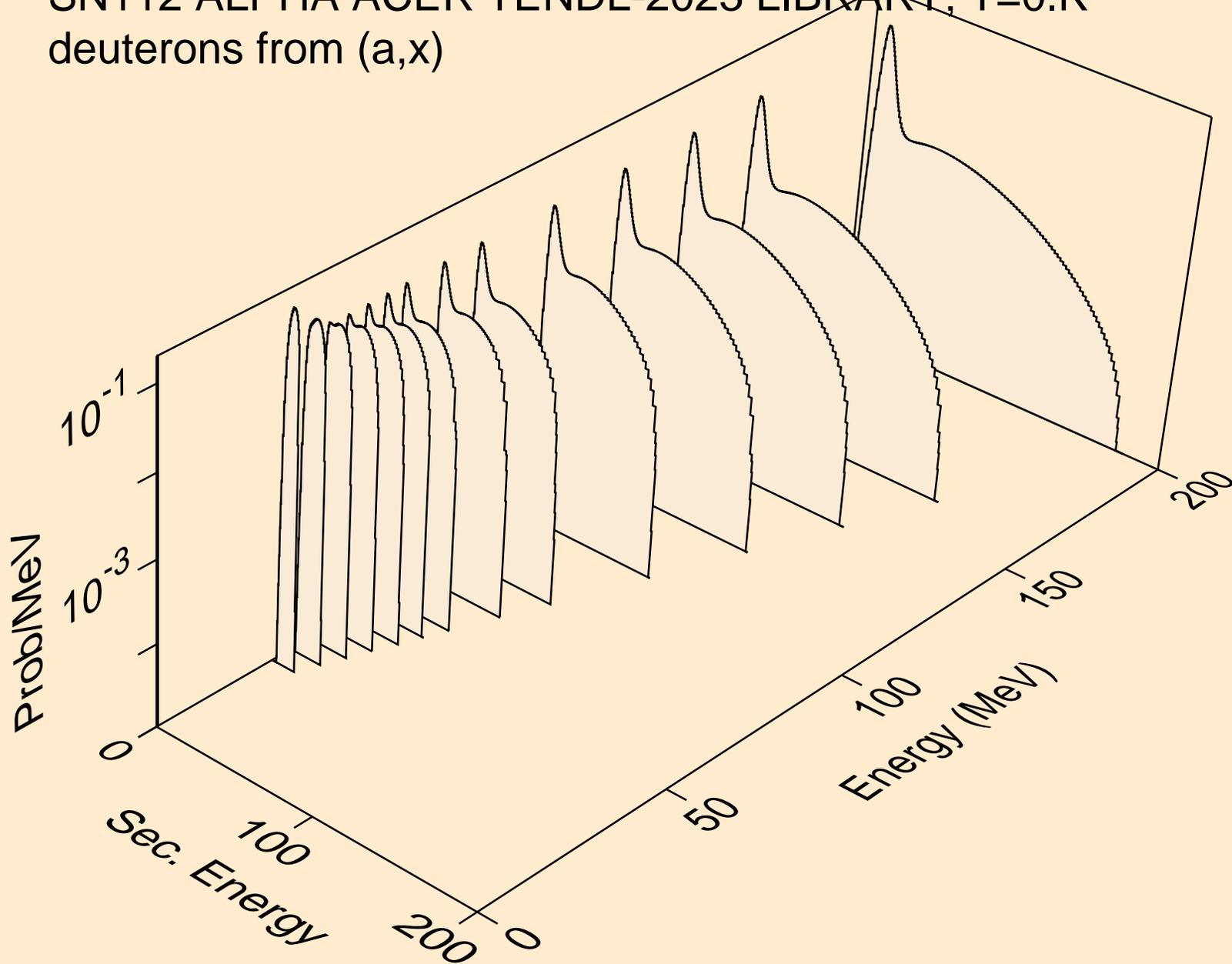protons from (a,pa)

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
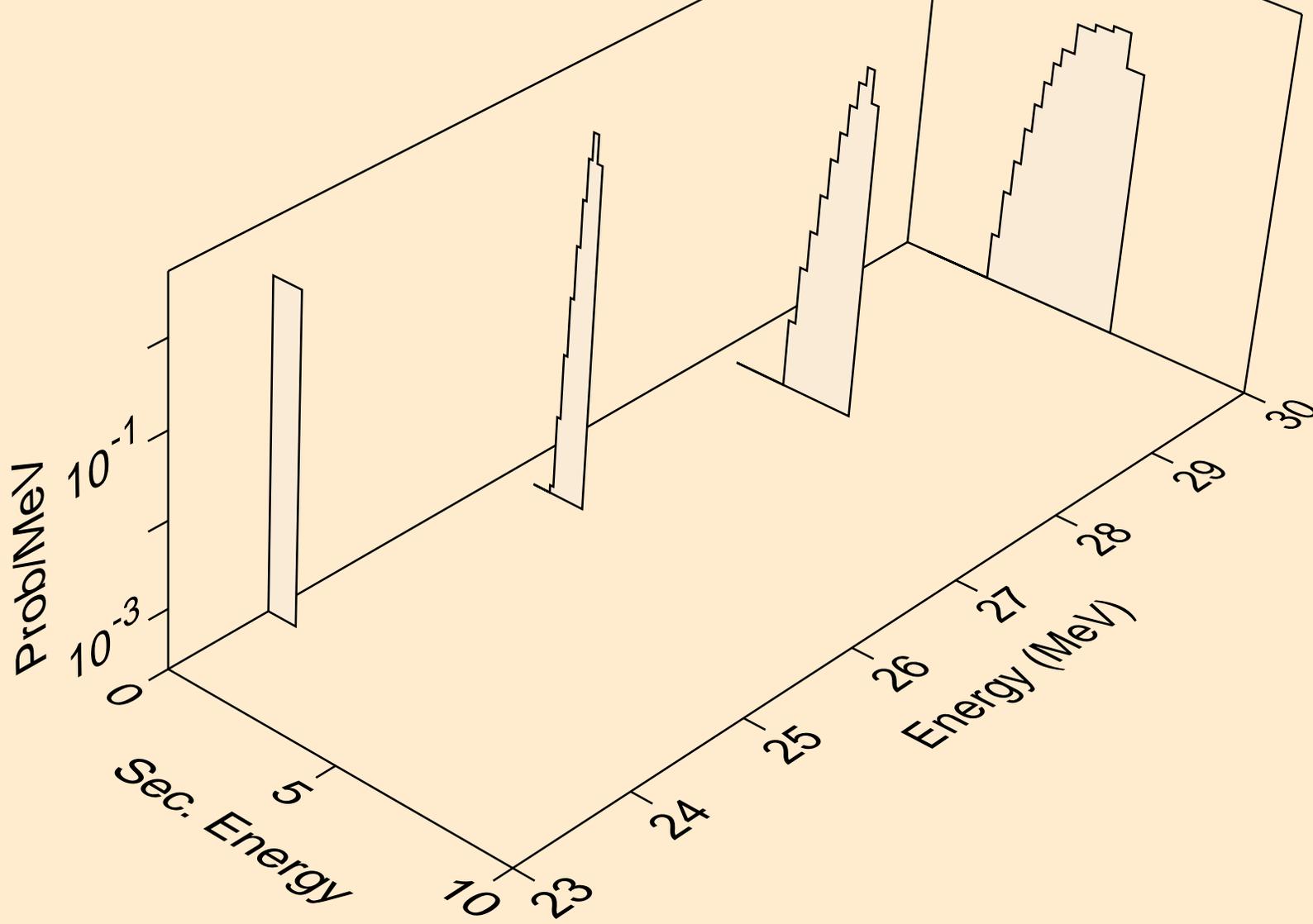protons from (a,pd)

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
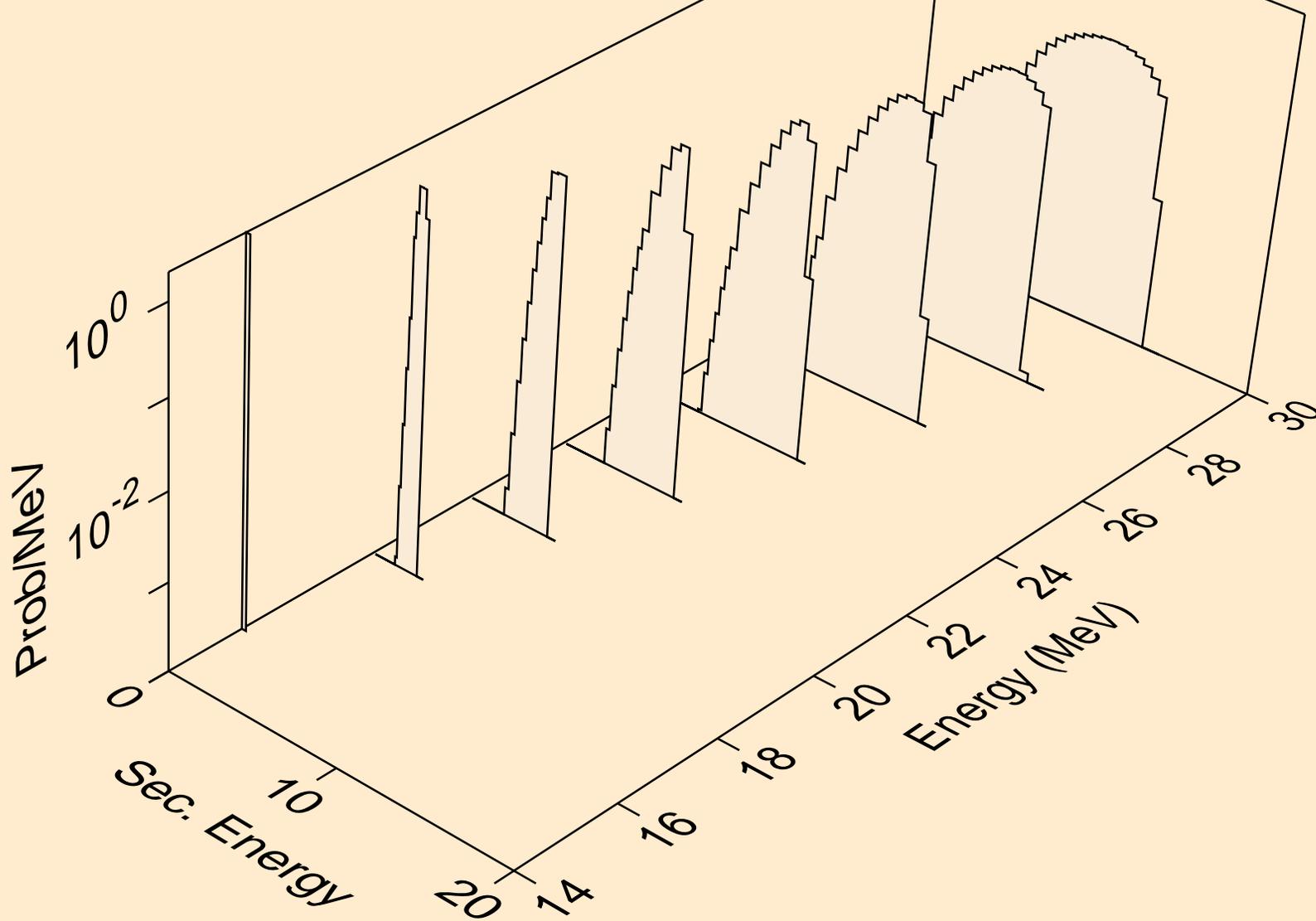protons from (a,pt)

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
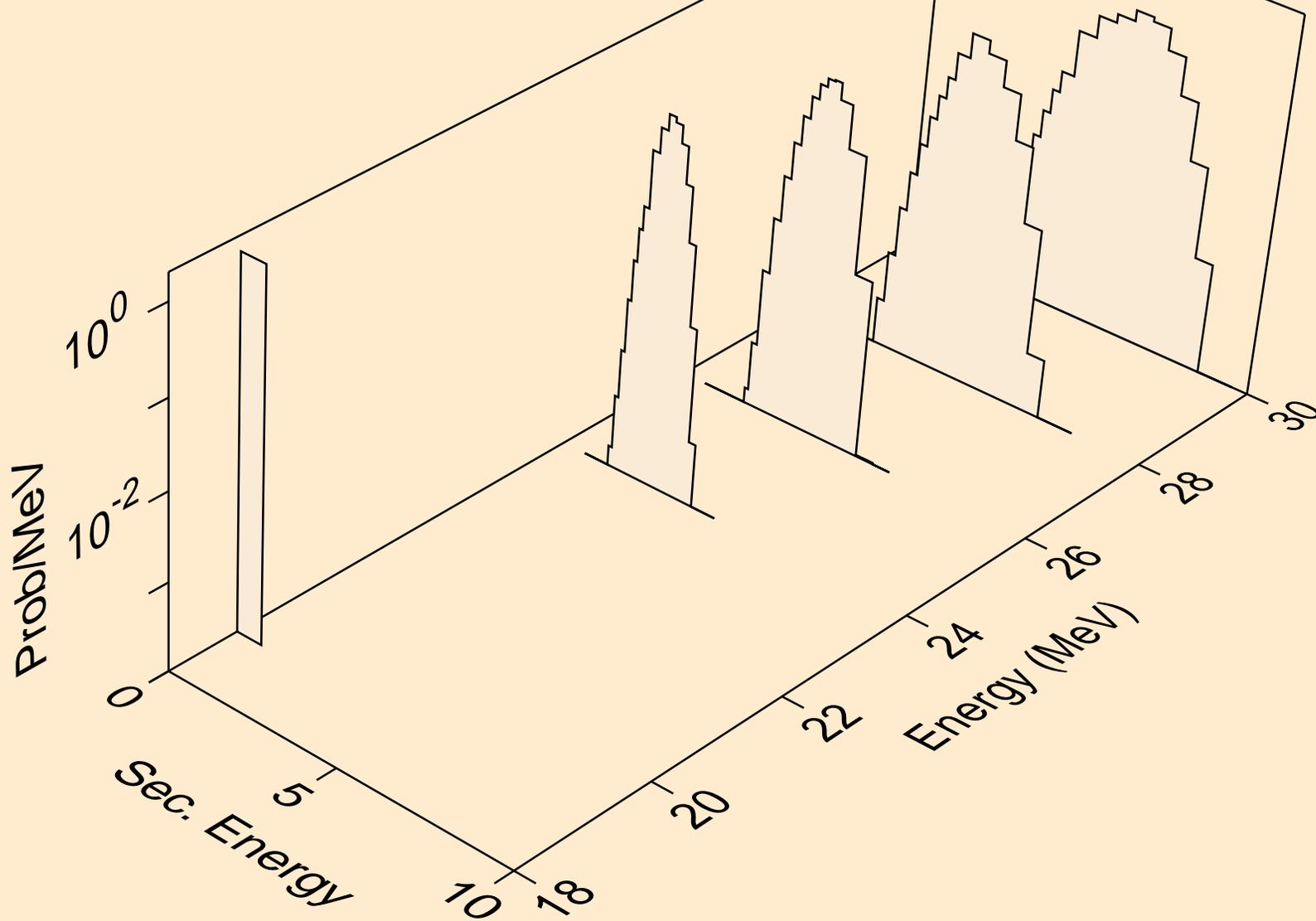deuterons from (a,x)

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
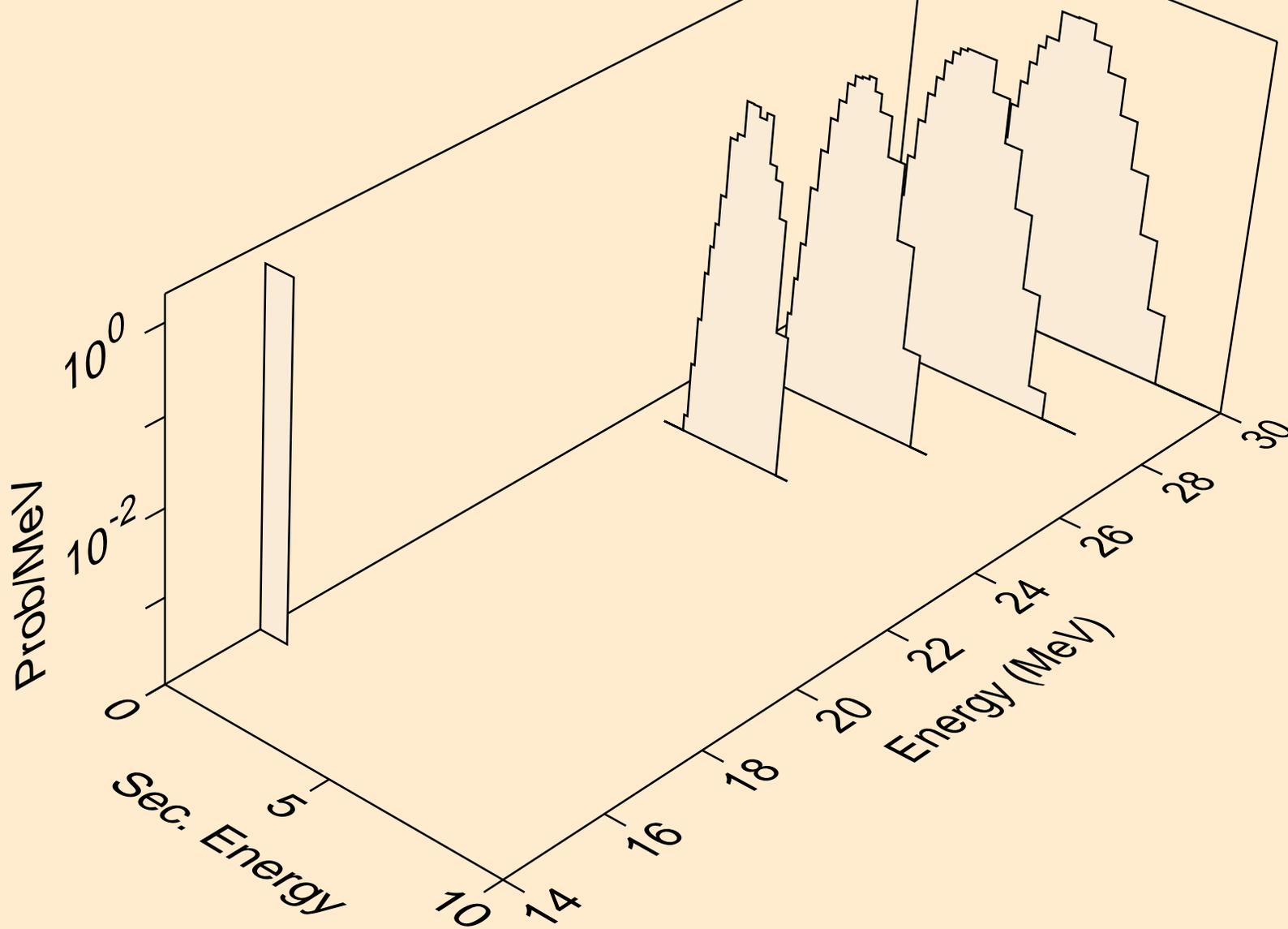deuterons from (a,n*)d

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
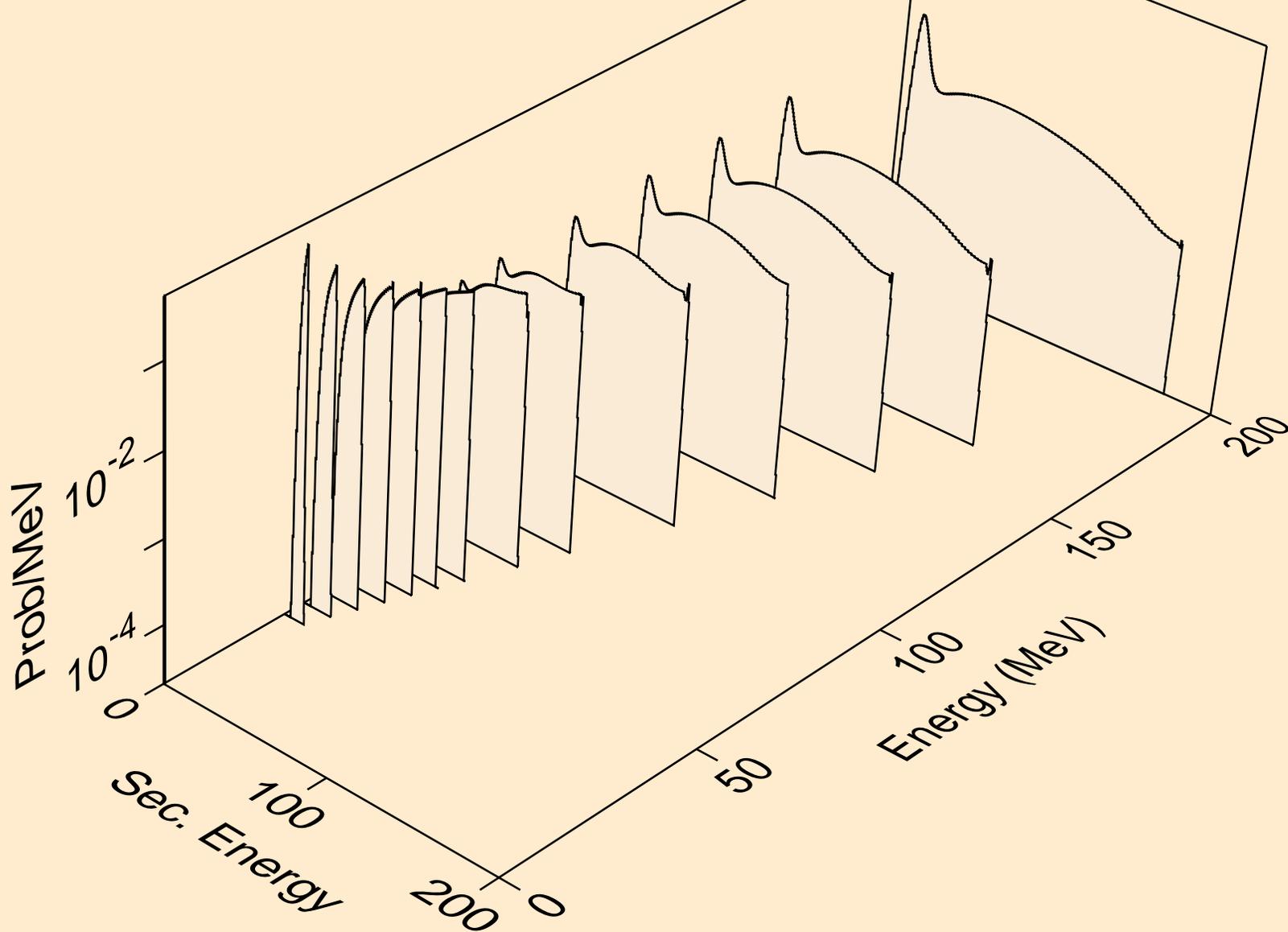deuterons from (a,d)

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
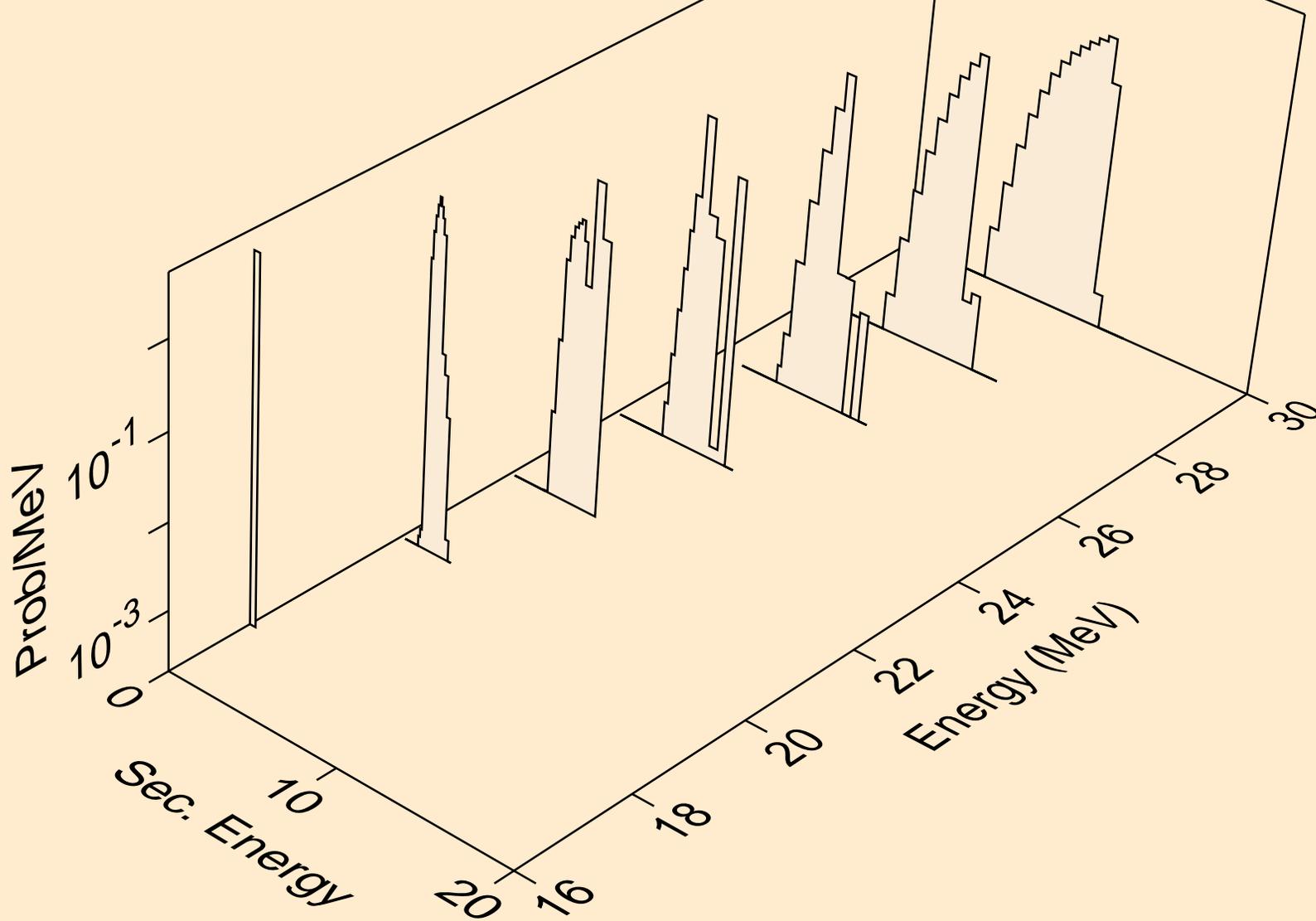deuterons from (a,pd)

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
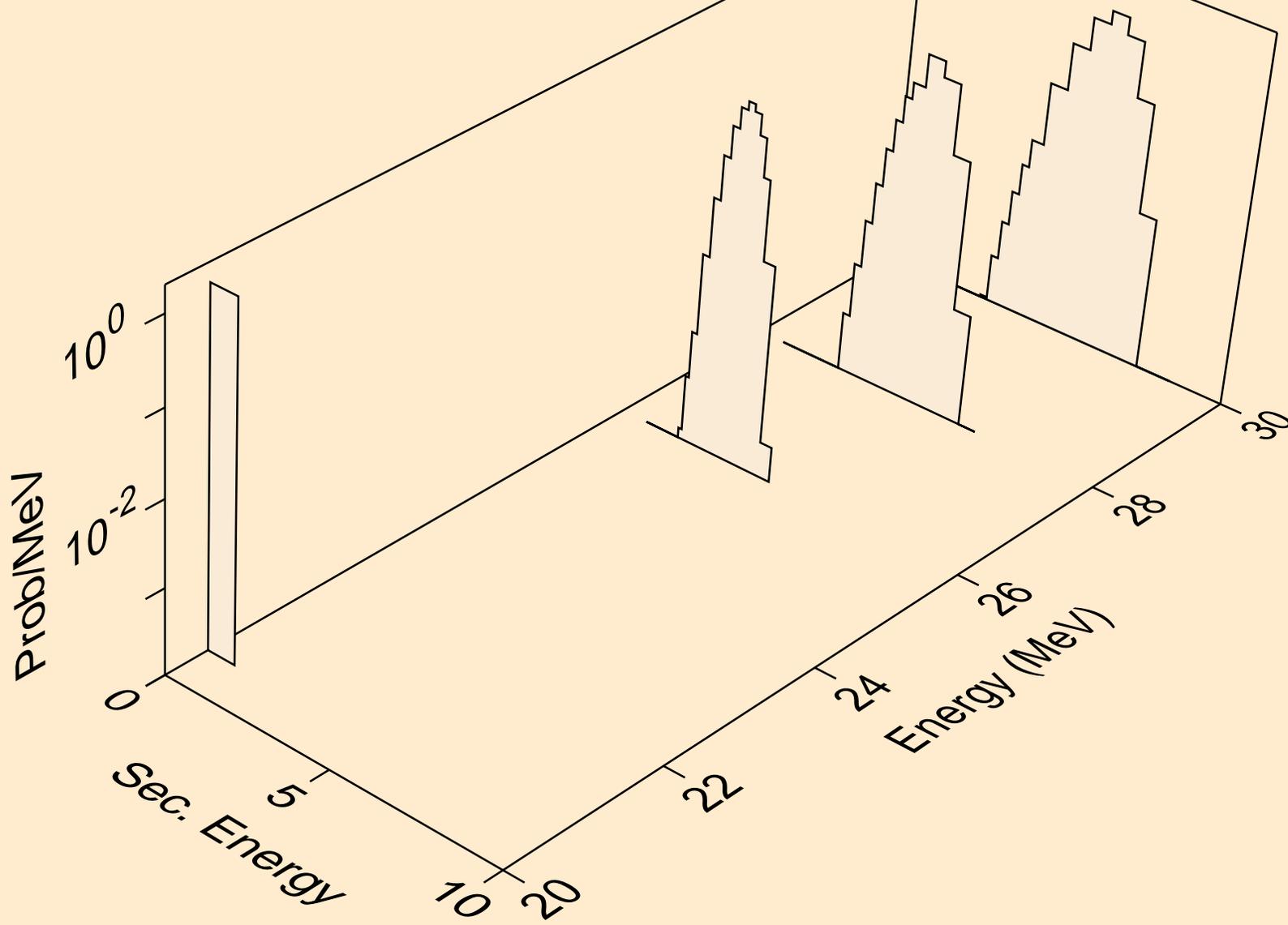deuterons from (a,da)

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
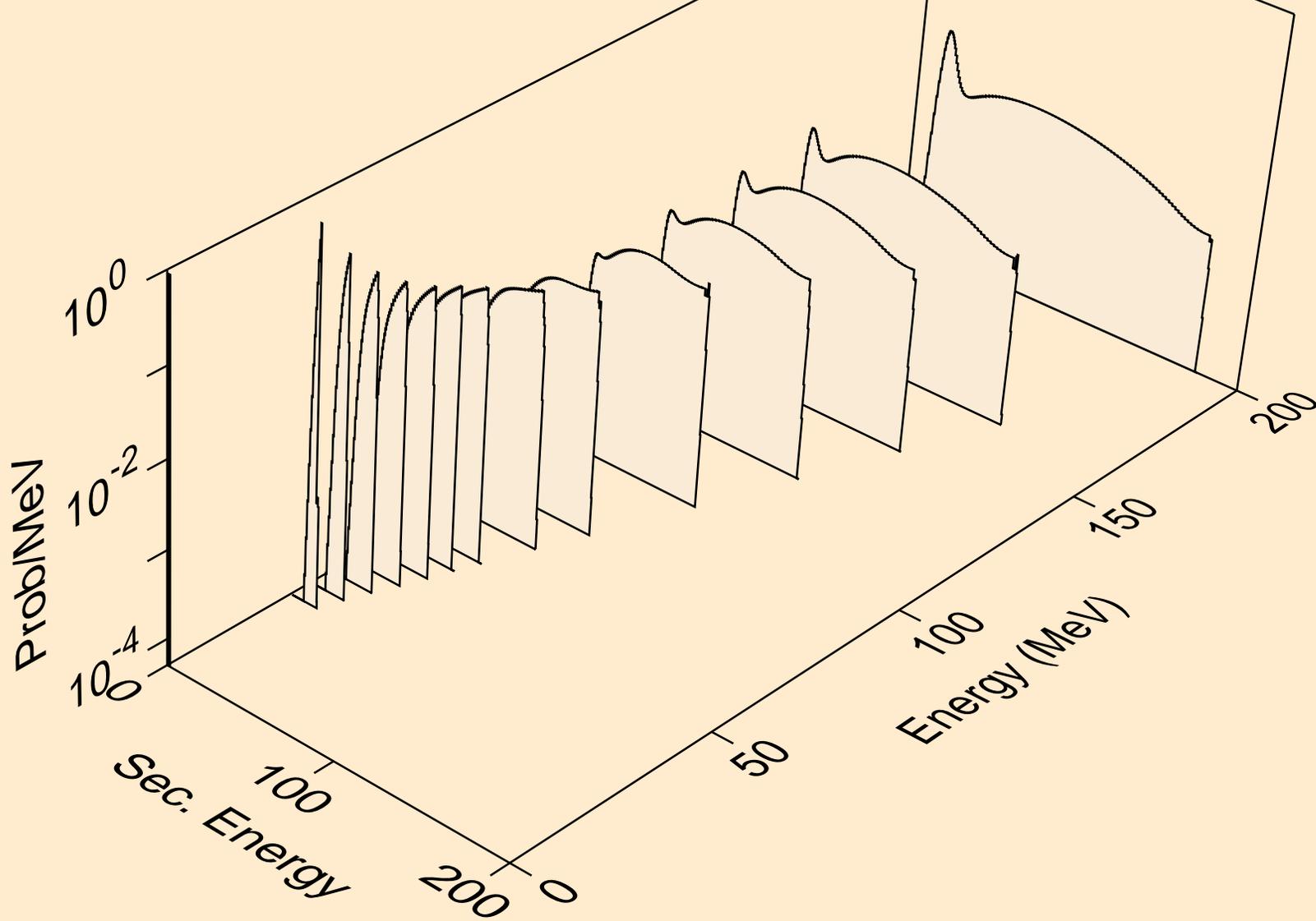tritons from (a,x)

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
tritons from (a,t)

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
tritons from (a,pt)

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
he3s from (a,x)

SN112 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
he3s from (a,he3)