SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Principal cross sections

Cross section (barns) vs Energy (MeV)

- total
- absorption
- elastic
- gamma production

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
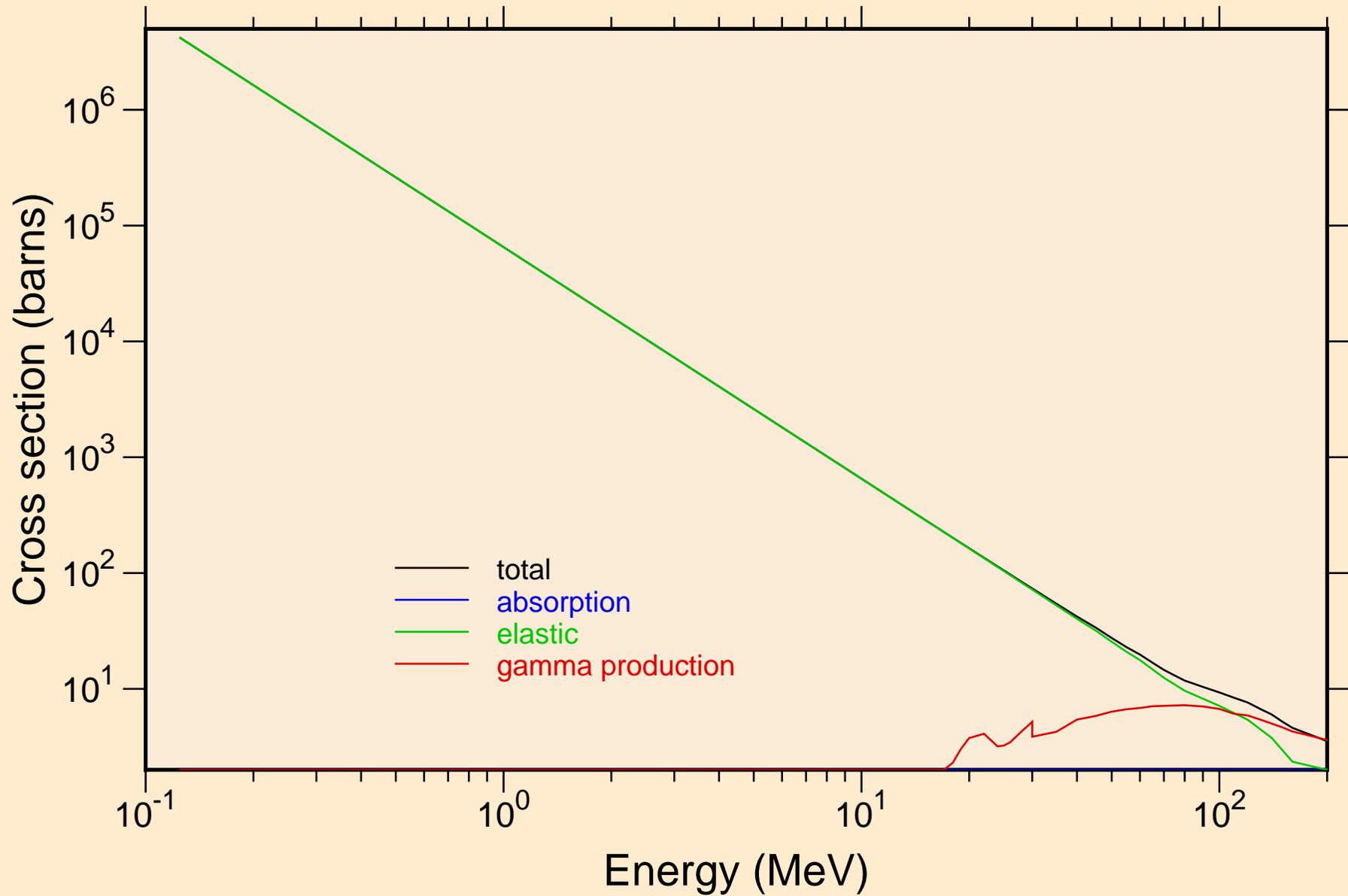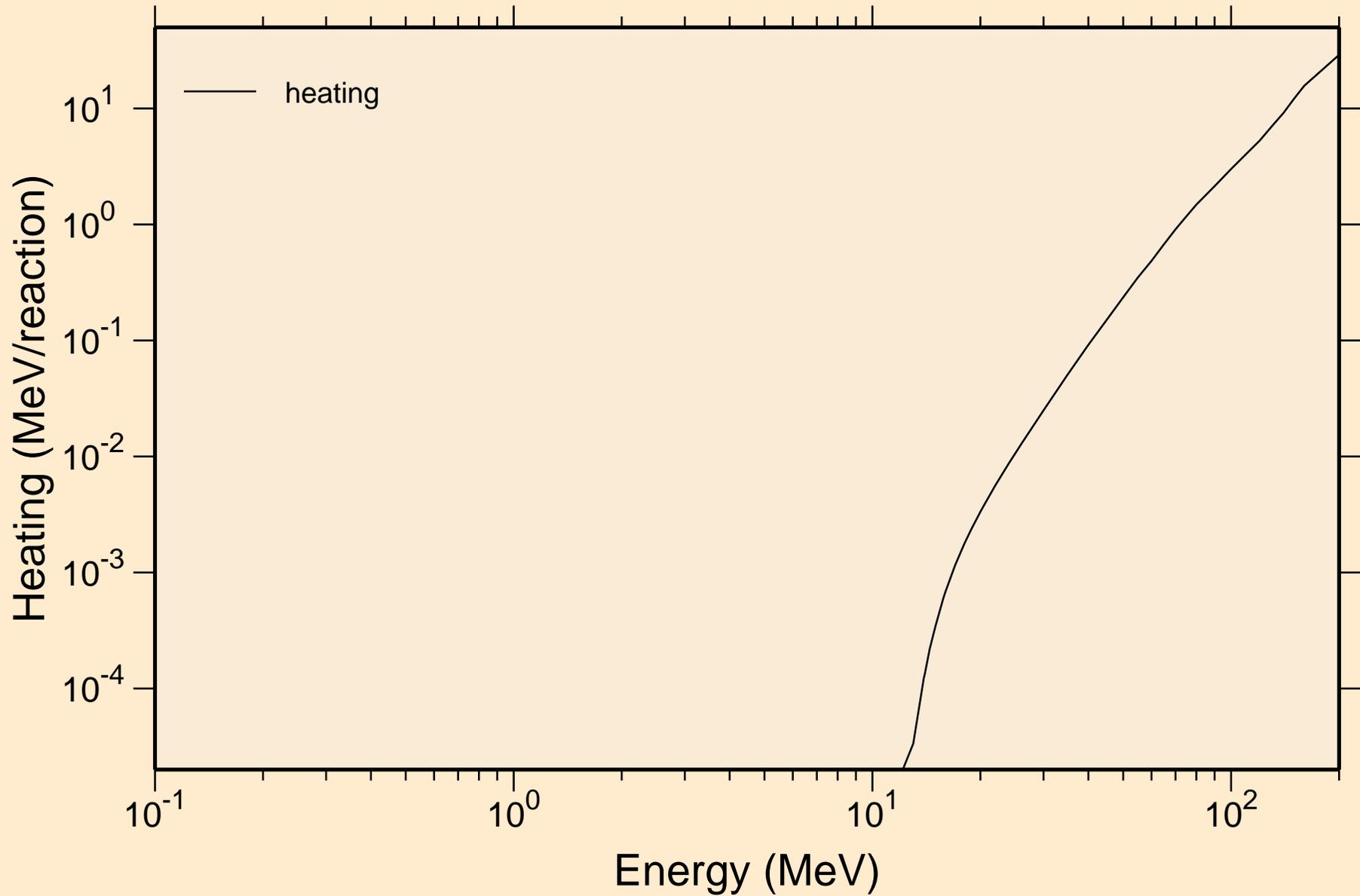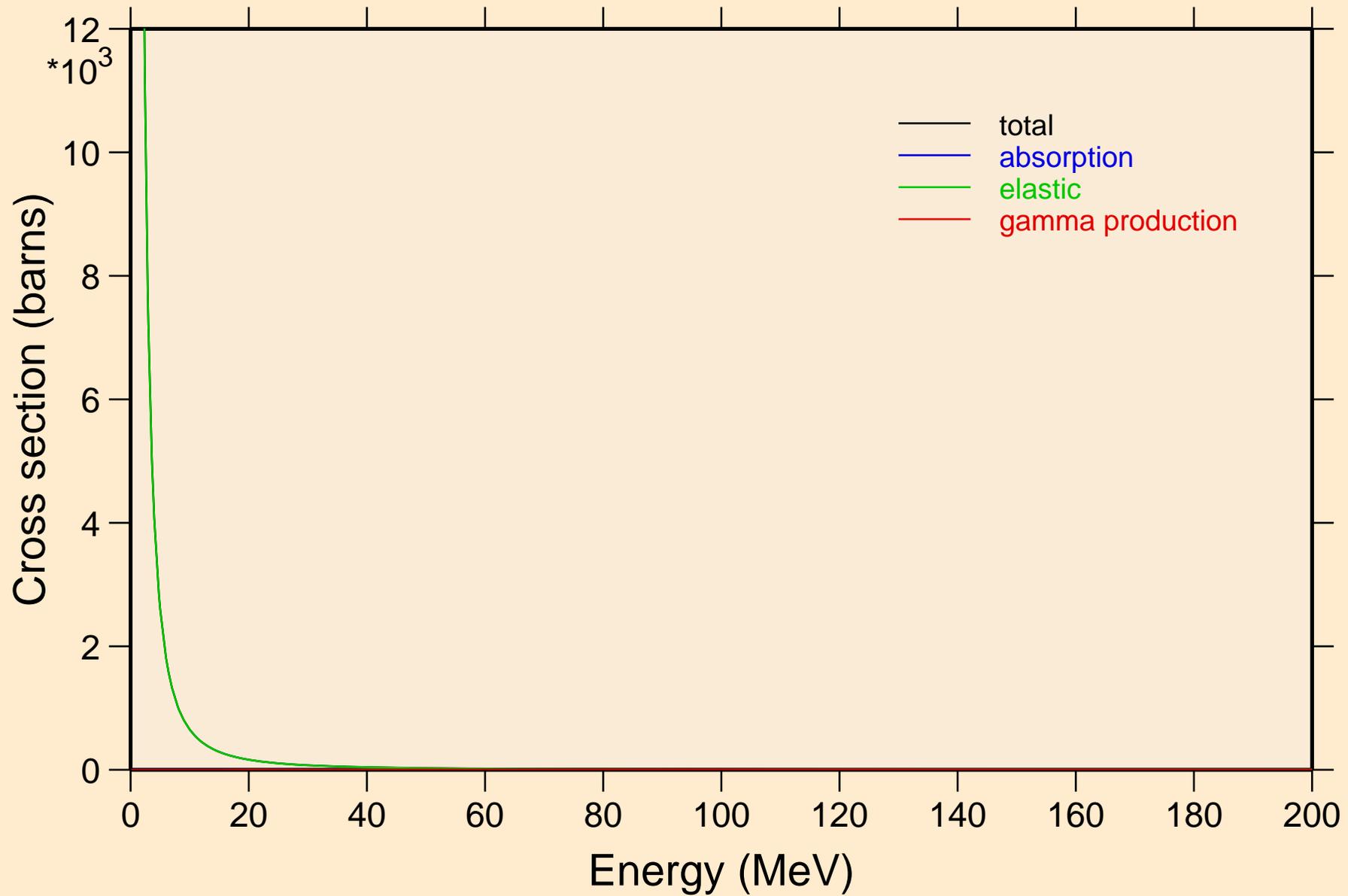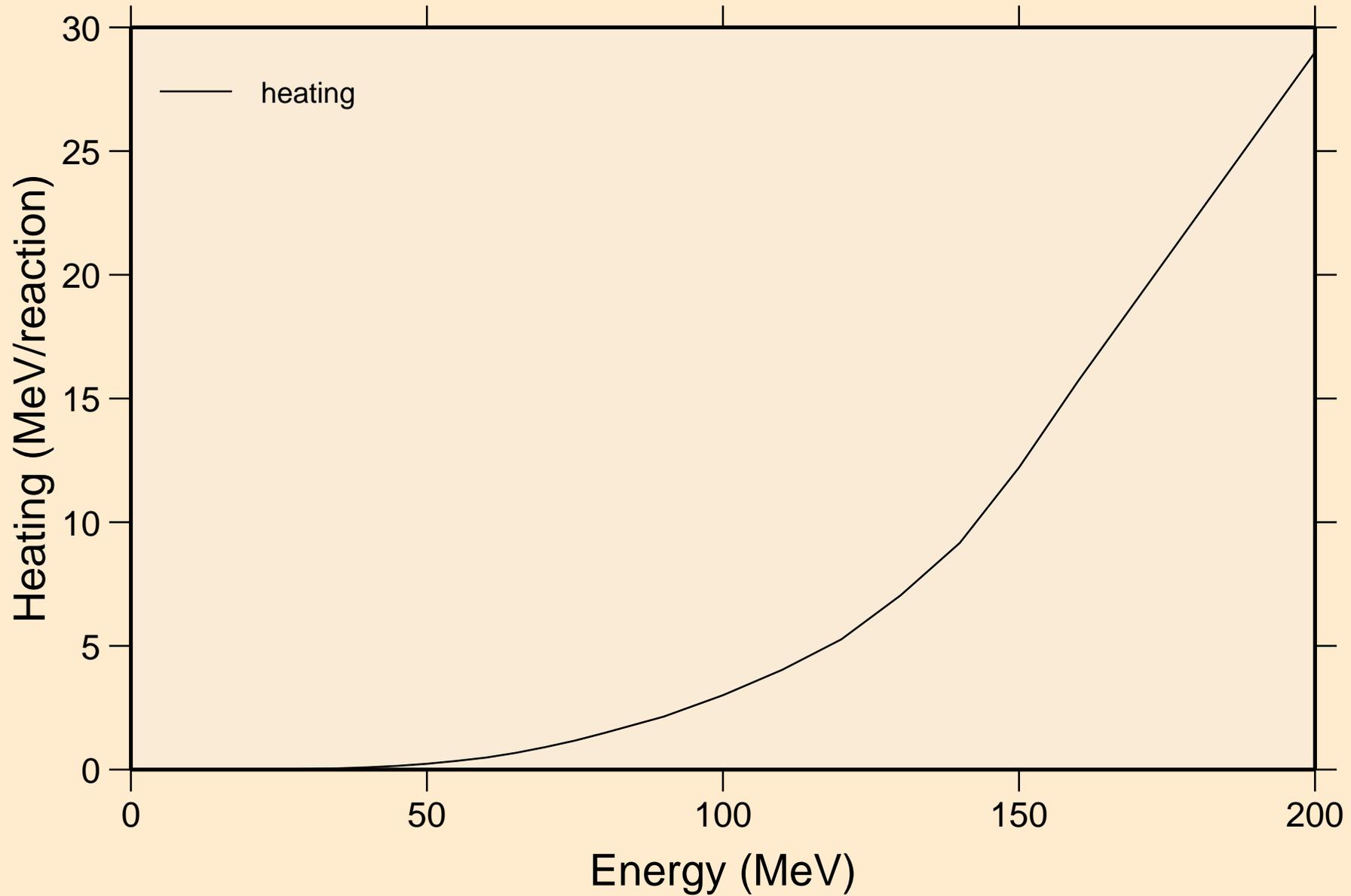Heating

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
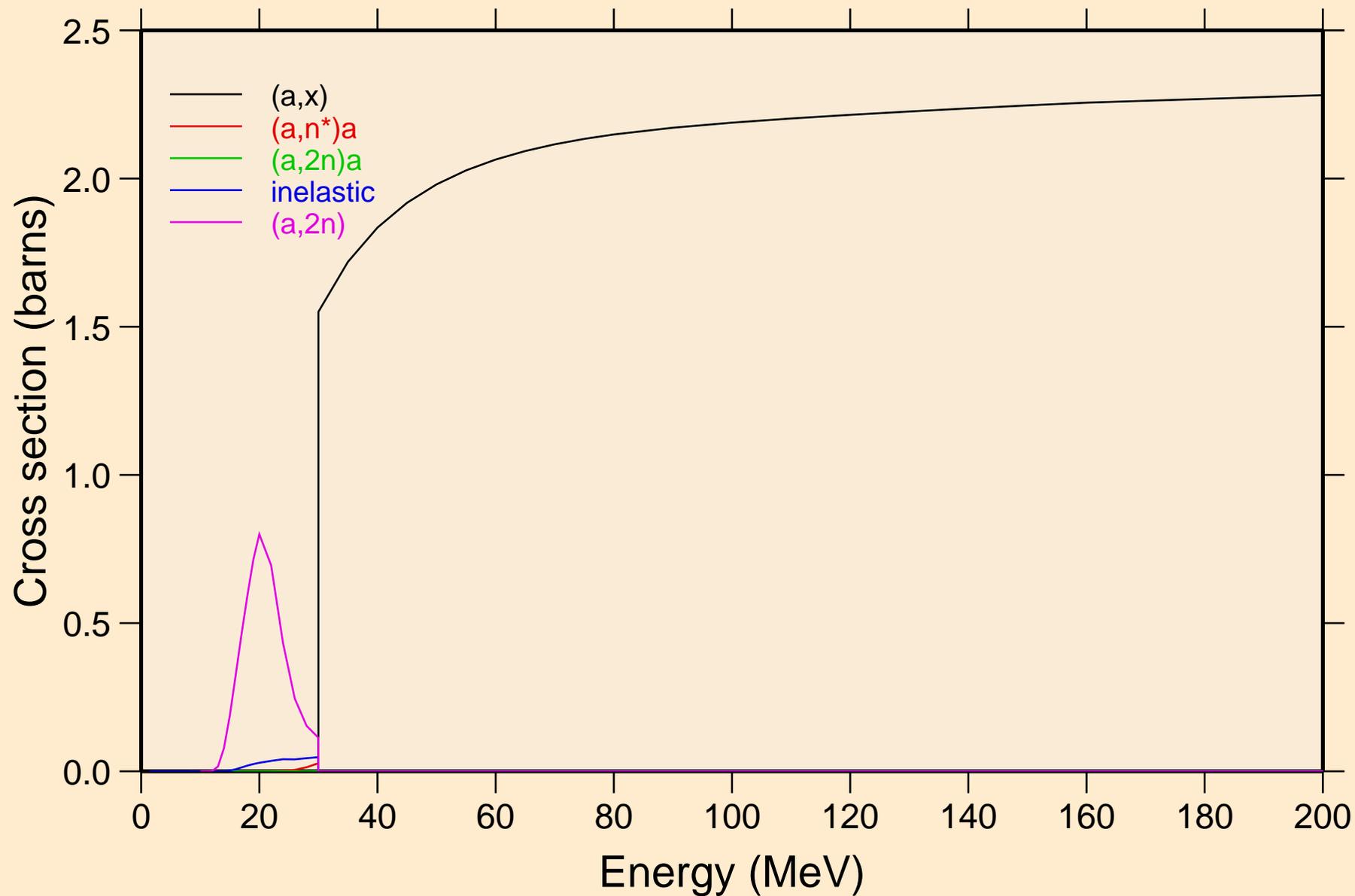Principal cross sections
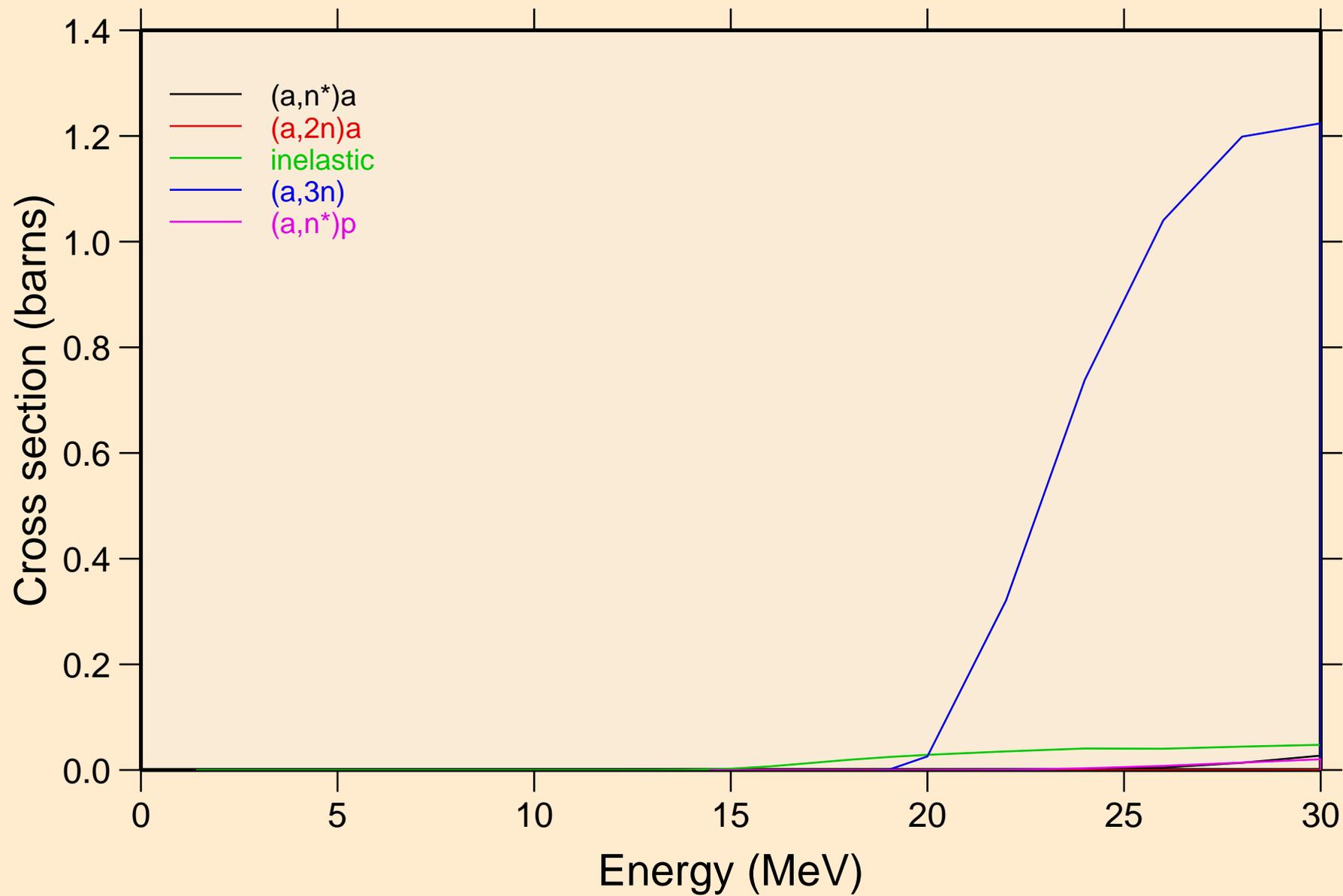
SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Heating

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
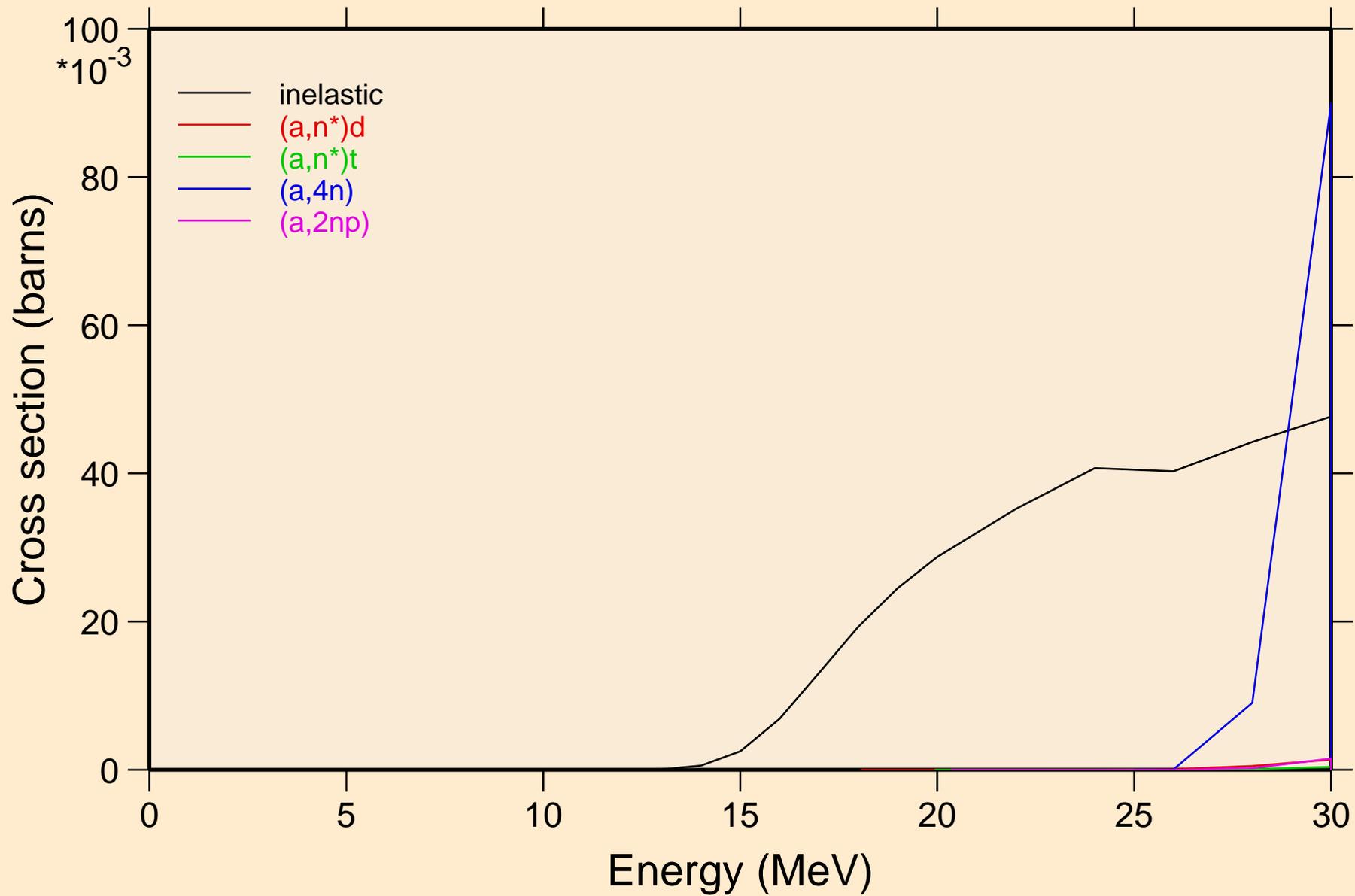Threshold reactions

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Threshold reactions

Legend:
- (a,n*)a
- (a,2n)a
- inelastic
- (a,3n)
- (a,n*)p

x-axis: Energy (MeV)
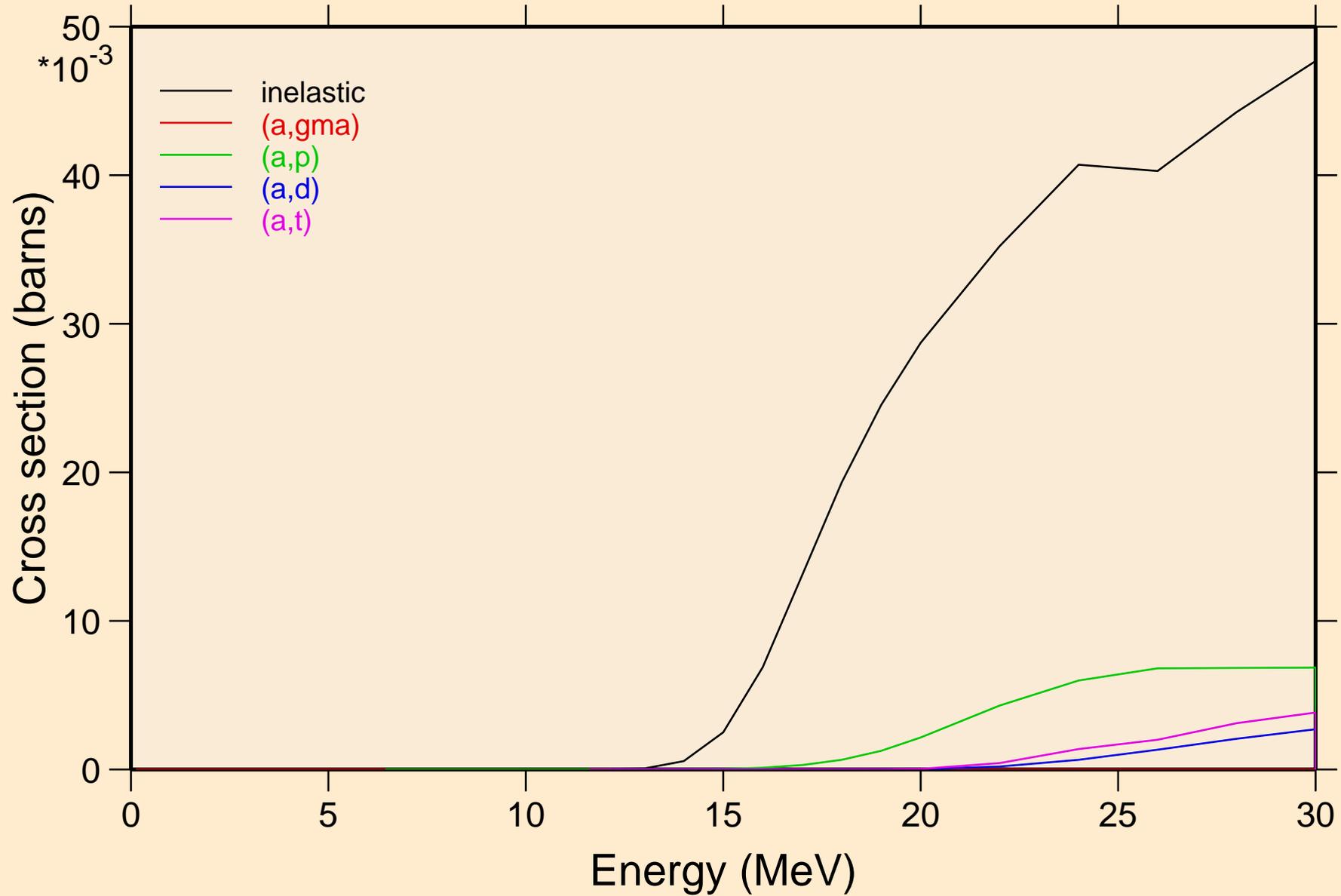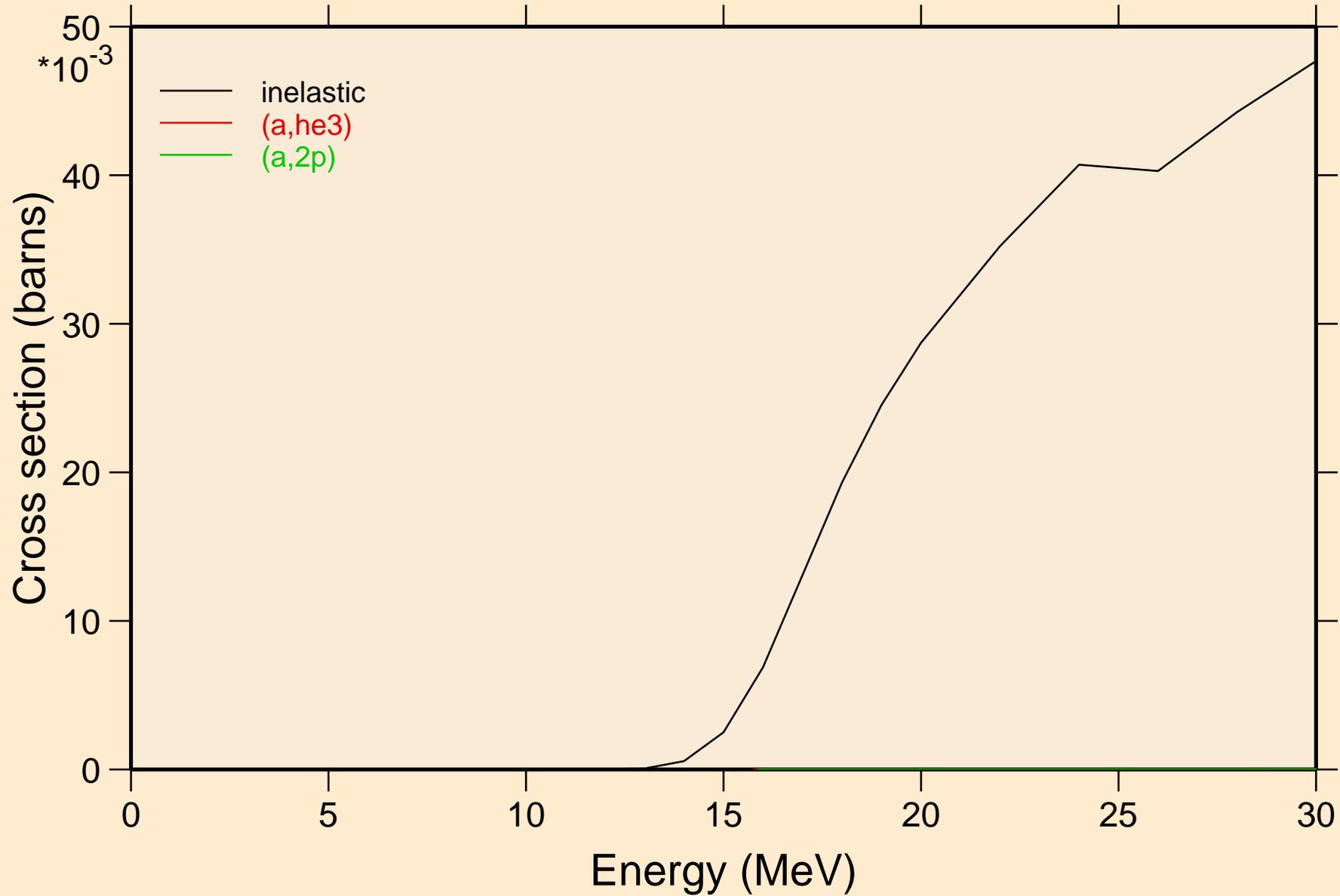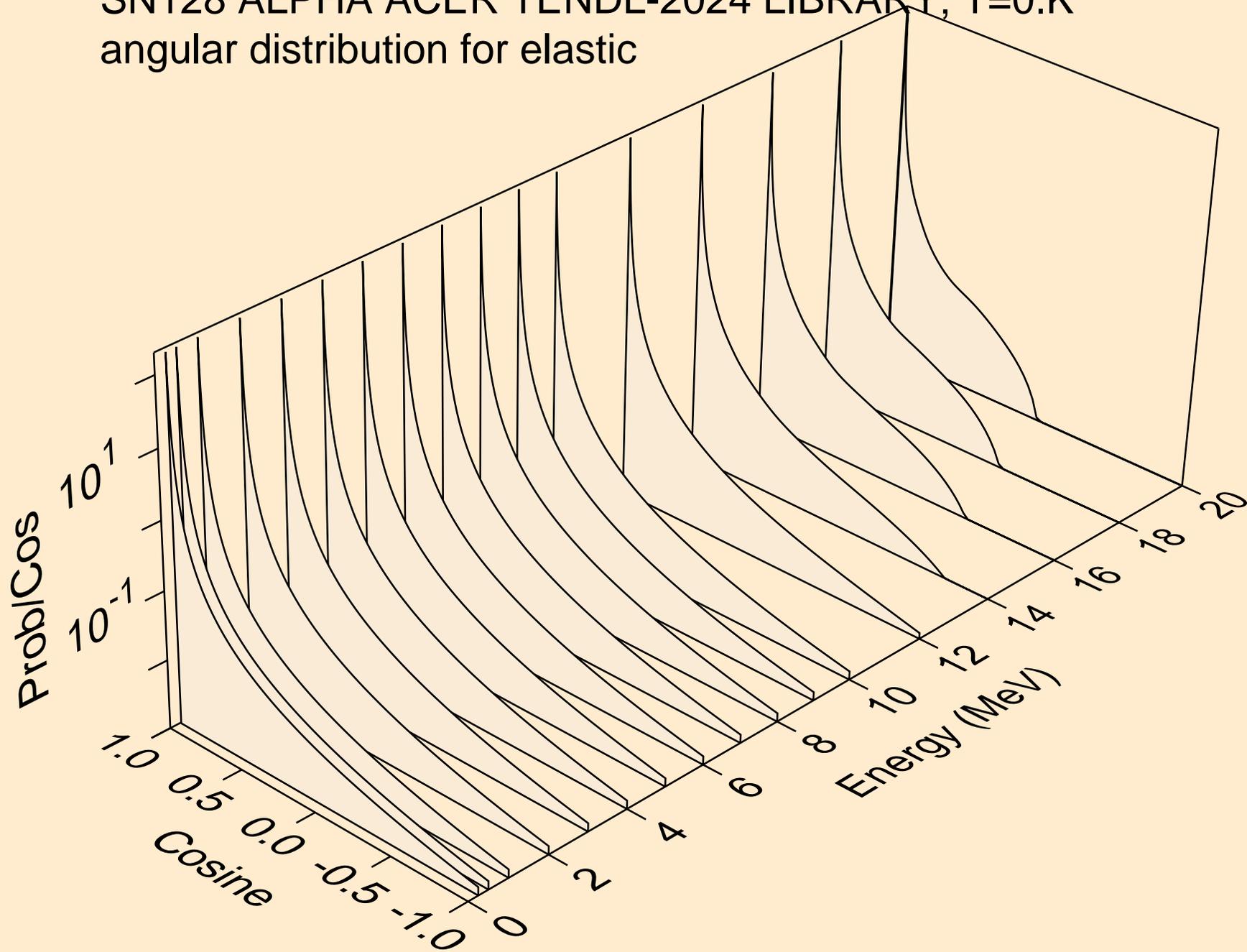y-axis: Cross section (barns)

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Threshold reactions

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Threshold reactions

Cross section (barns)
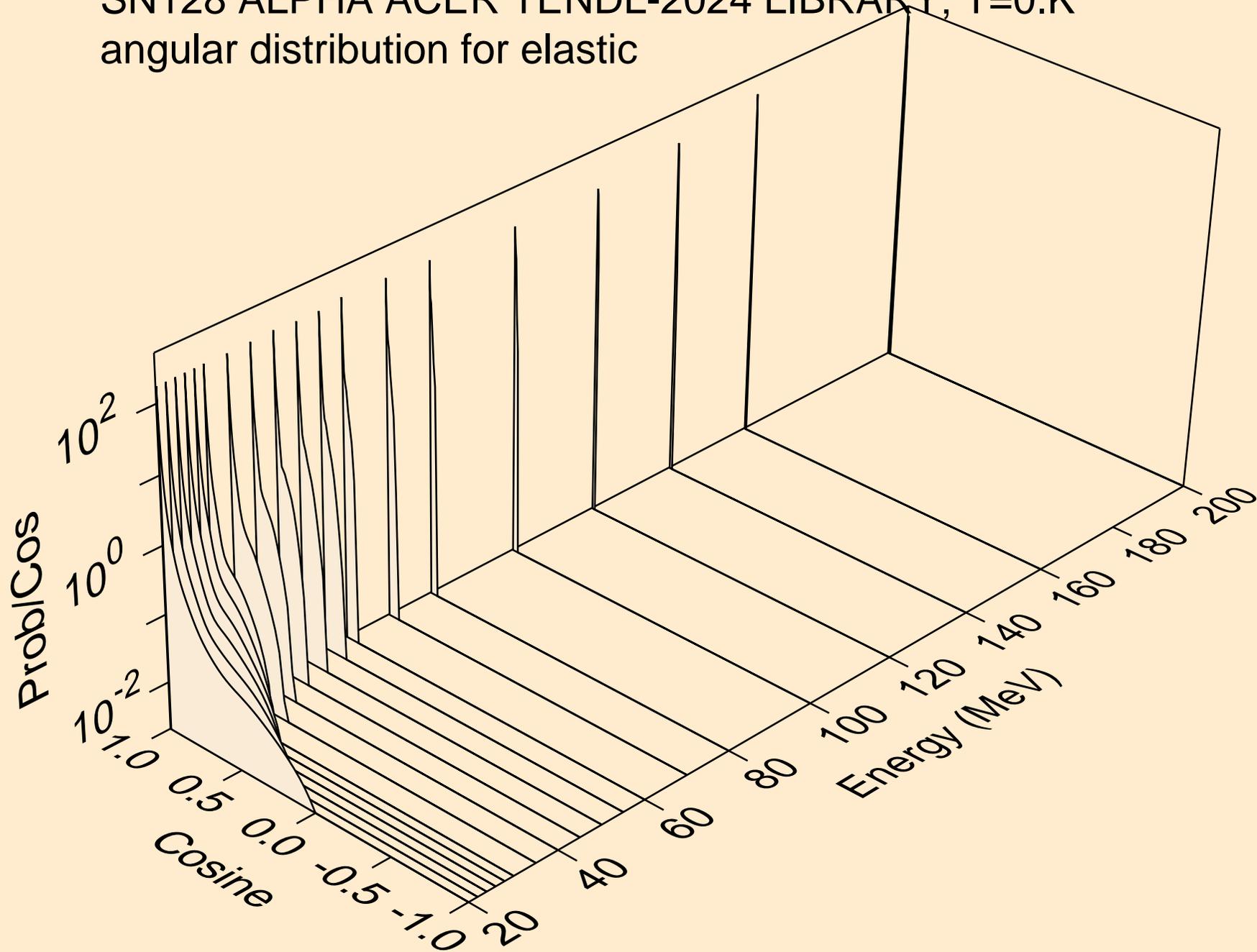
$*10^{-3}$

inelastic
(a,gma)
(a,p)
(a,d)
(a,t)

Energy (MeV)

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Threshold reactions

Cross section (barns)
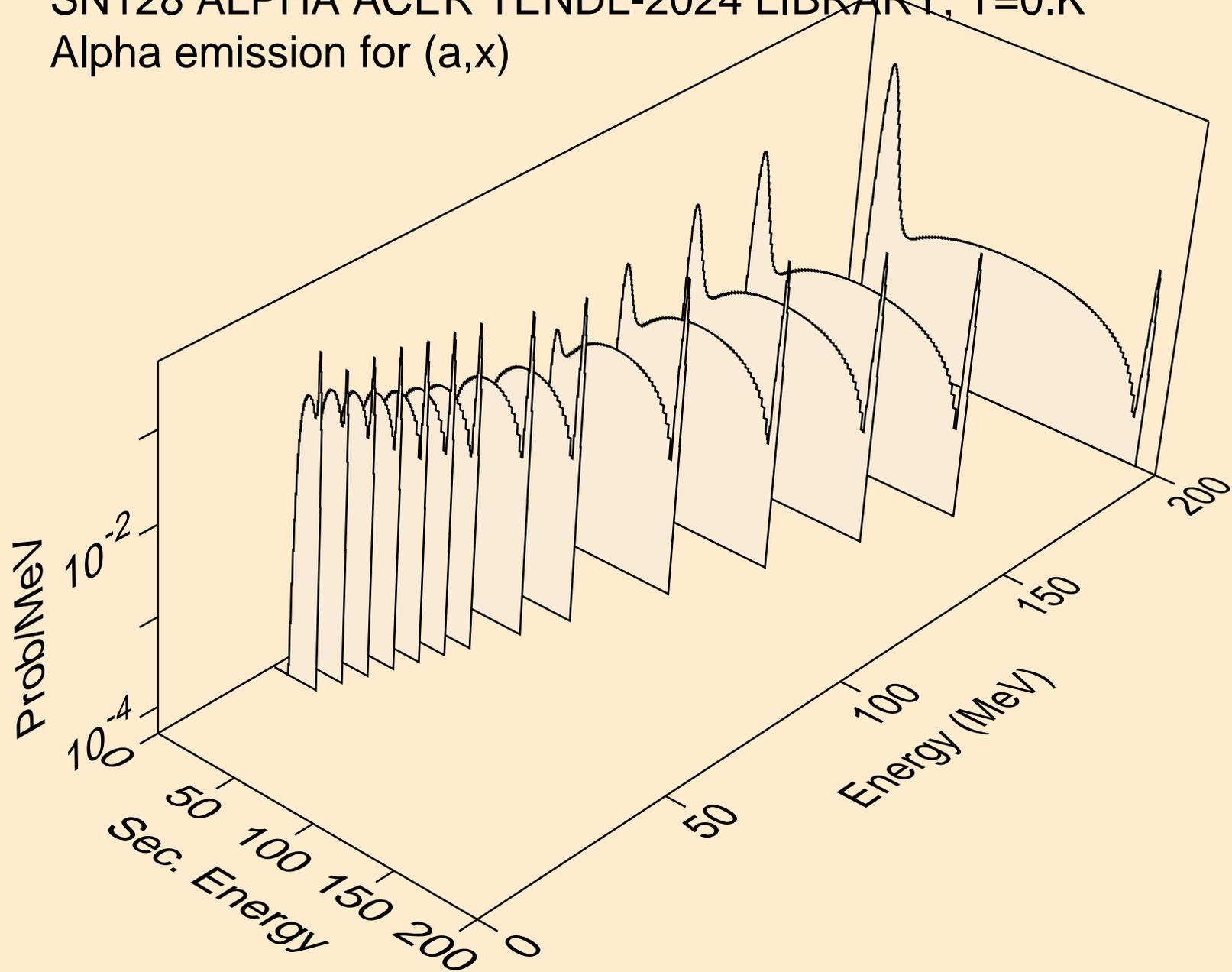
*10^{-3}

inelastic
(a,he3)
(a,2p)

Energy (MeV)

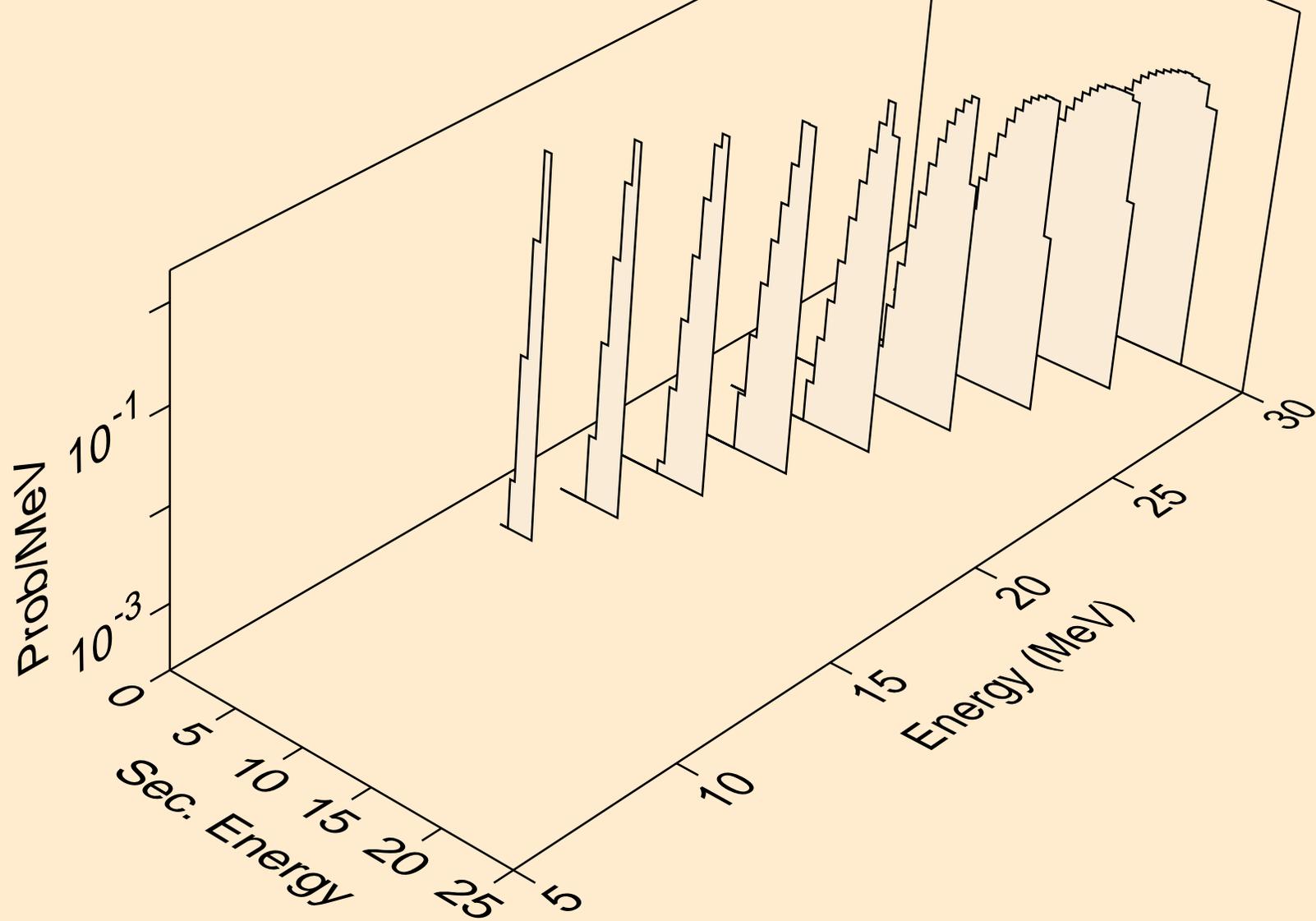SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
angular distribution for elastic

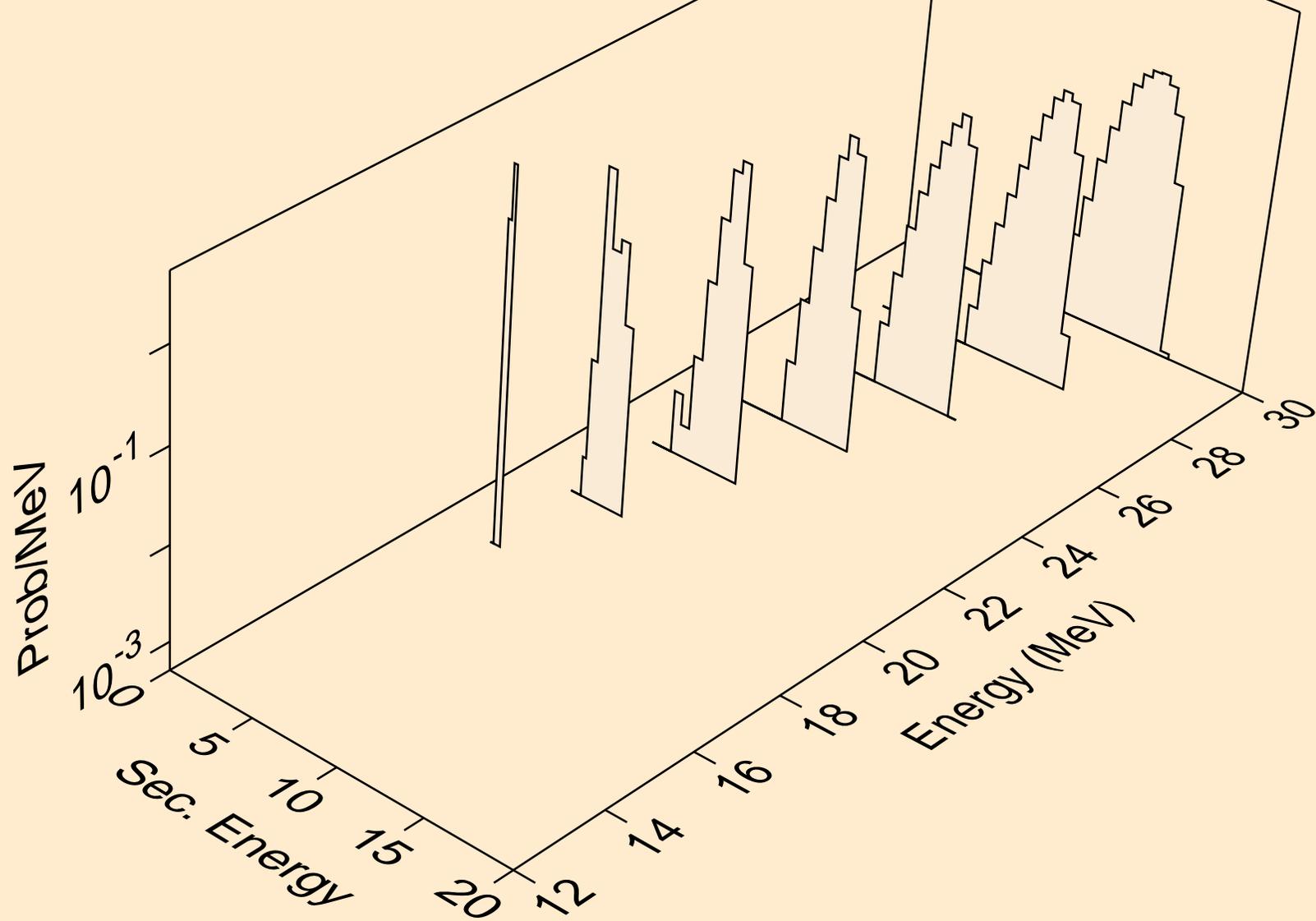SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
angular distribution for elastic

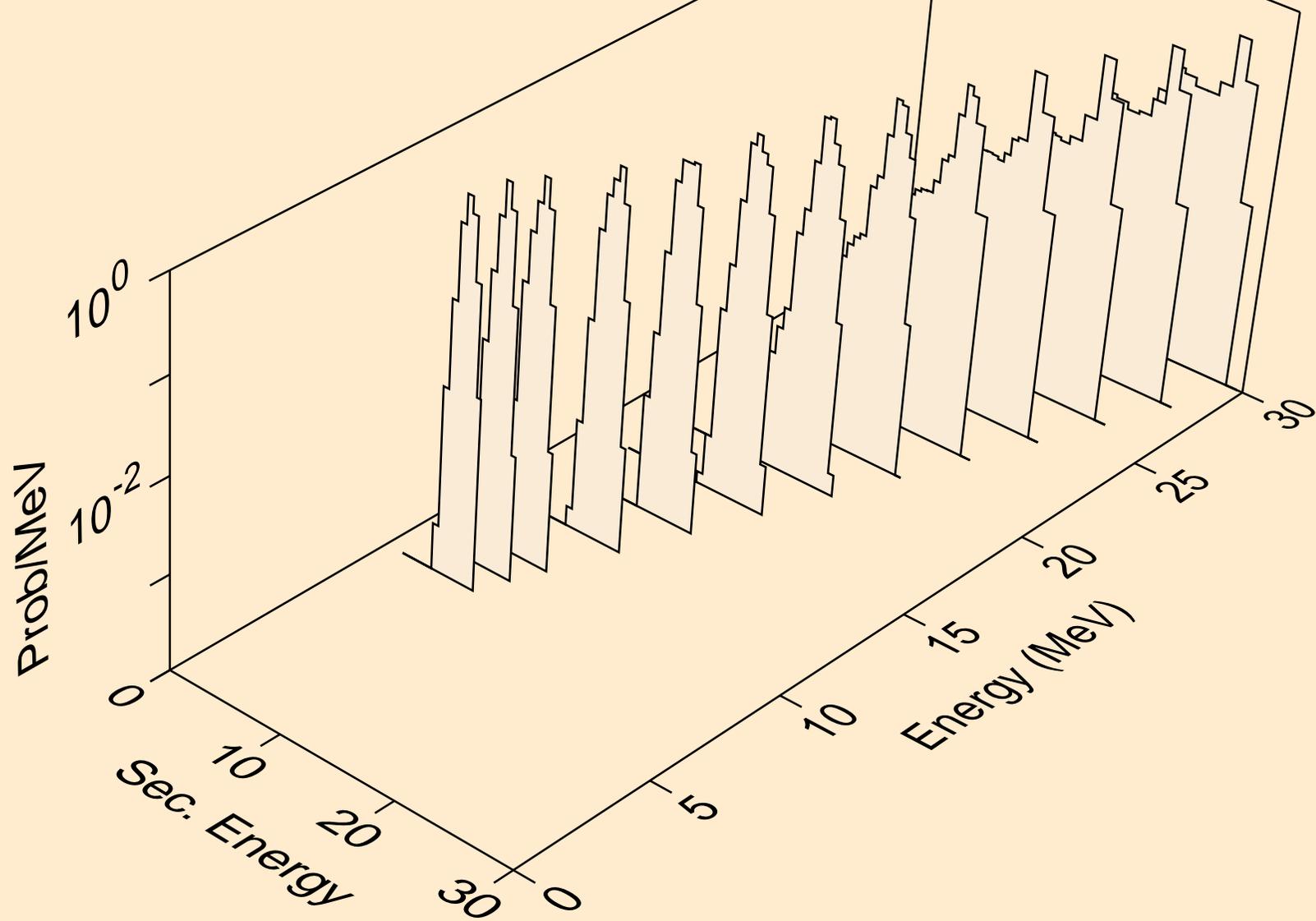SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Alpha emission for (a,x)

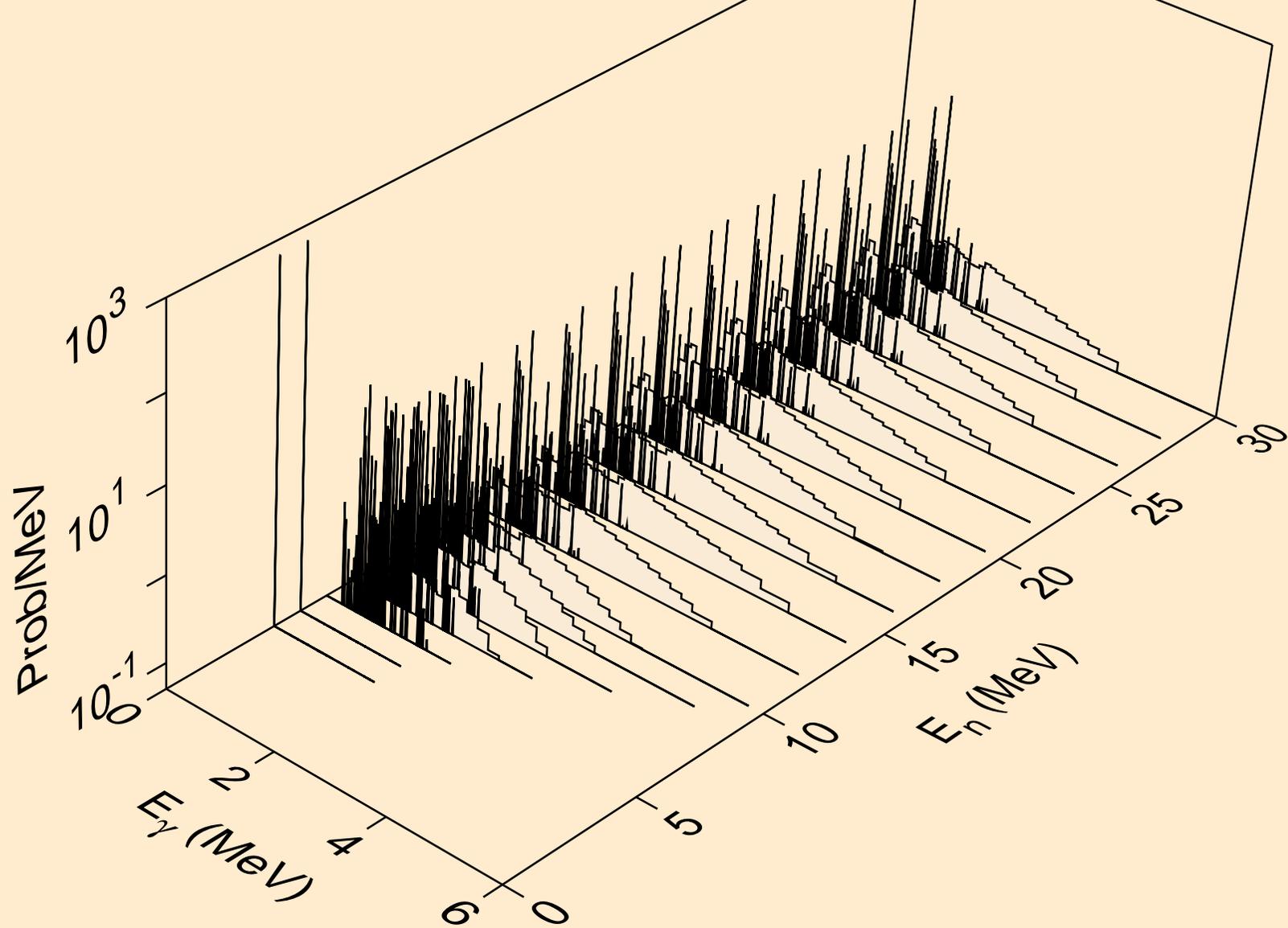SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Alpha emission for (a,n*)a

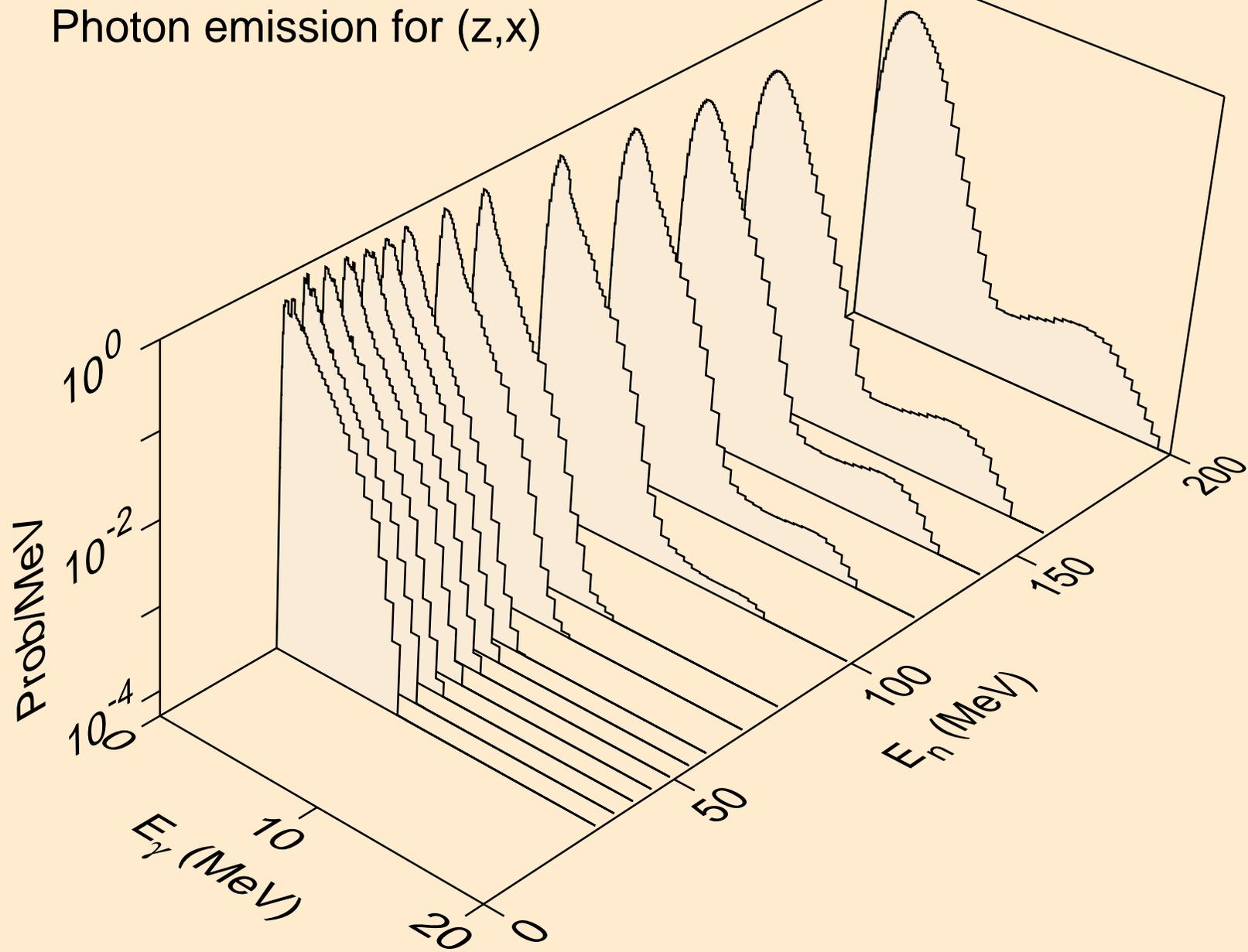SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Alpha emission for (a,2n)a

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
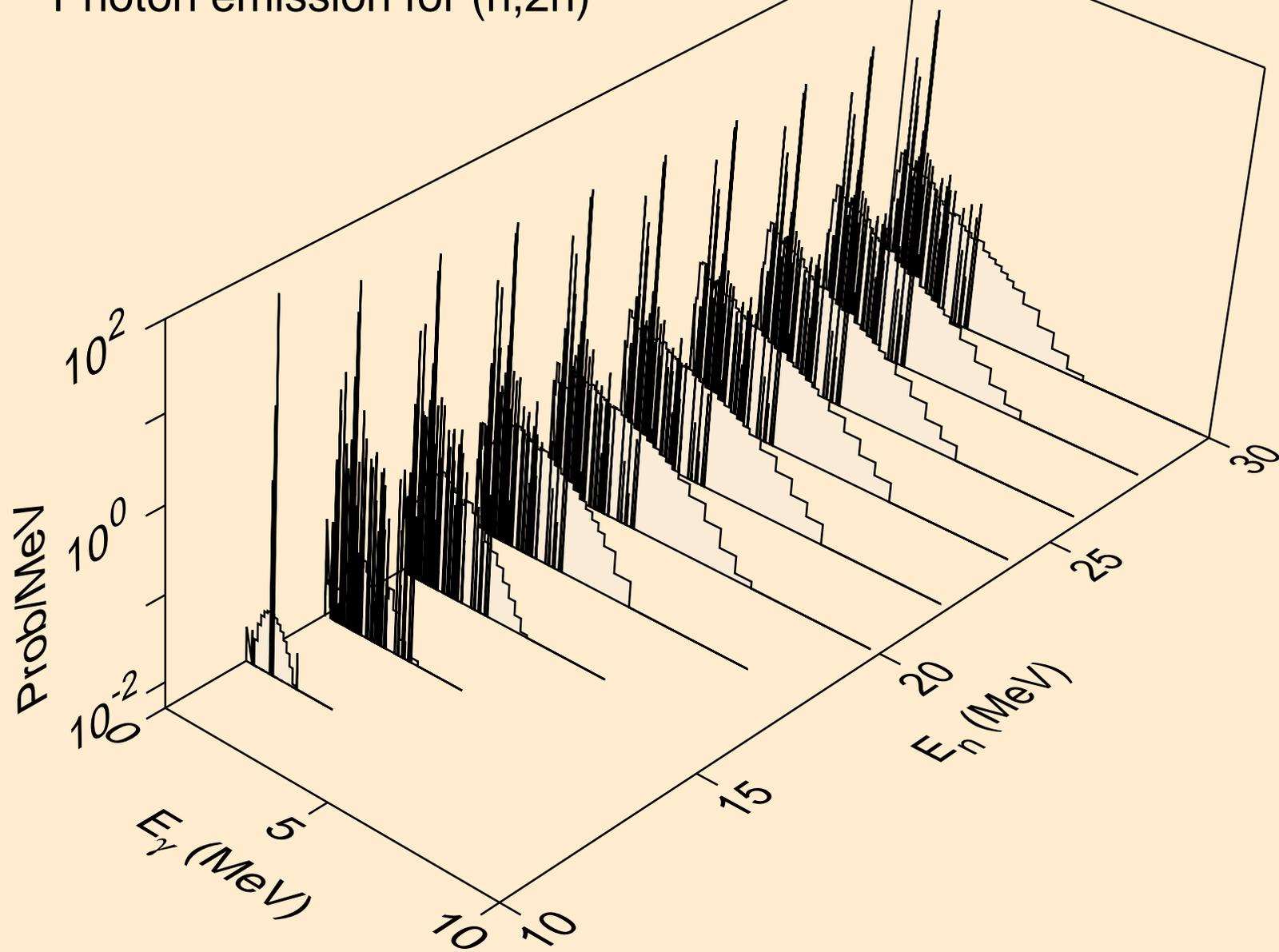Alpha emission for inelastic

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
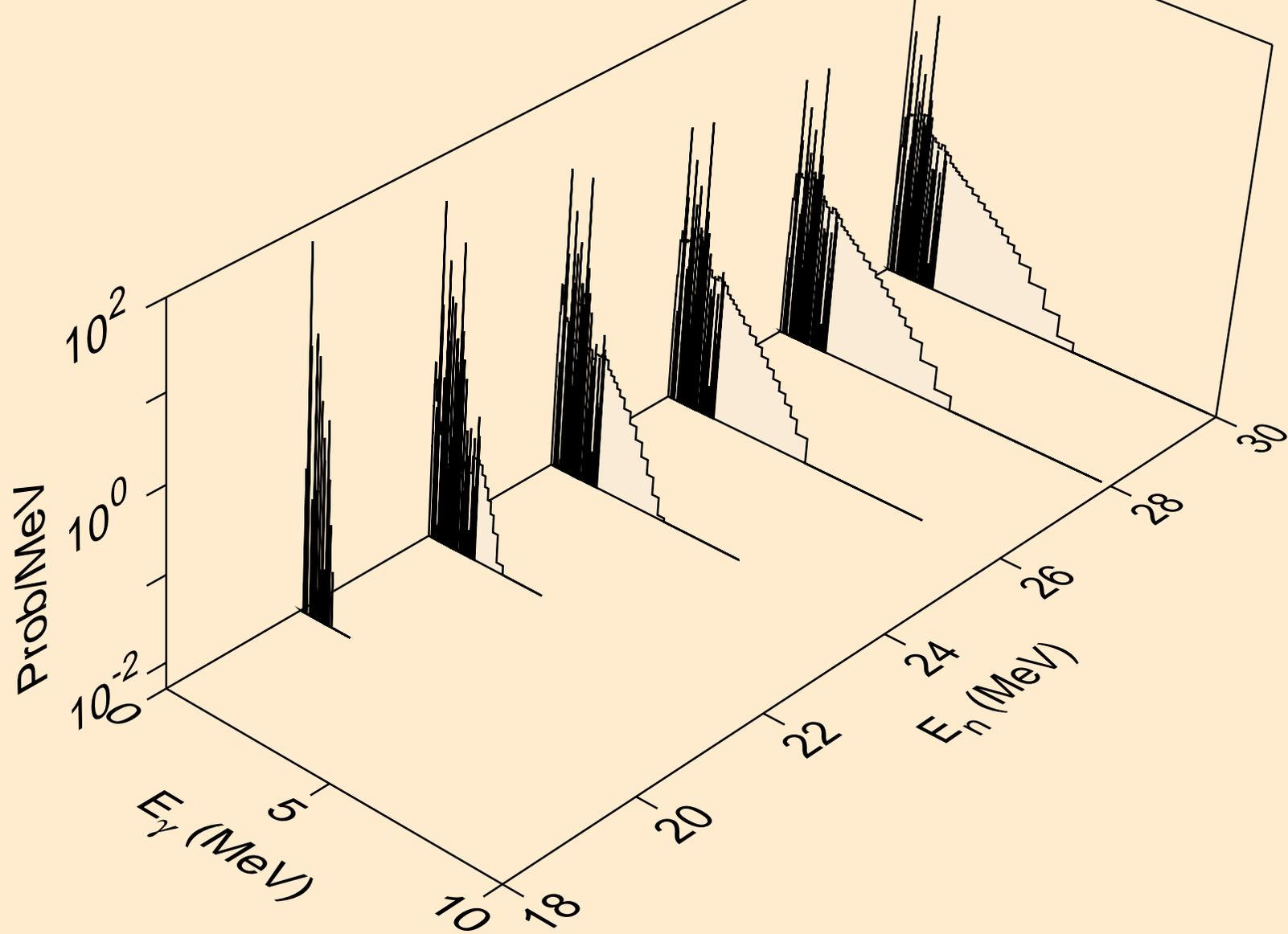Photon emission for (z,n)

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
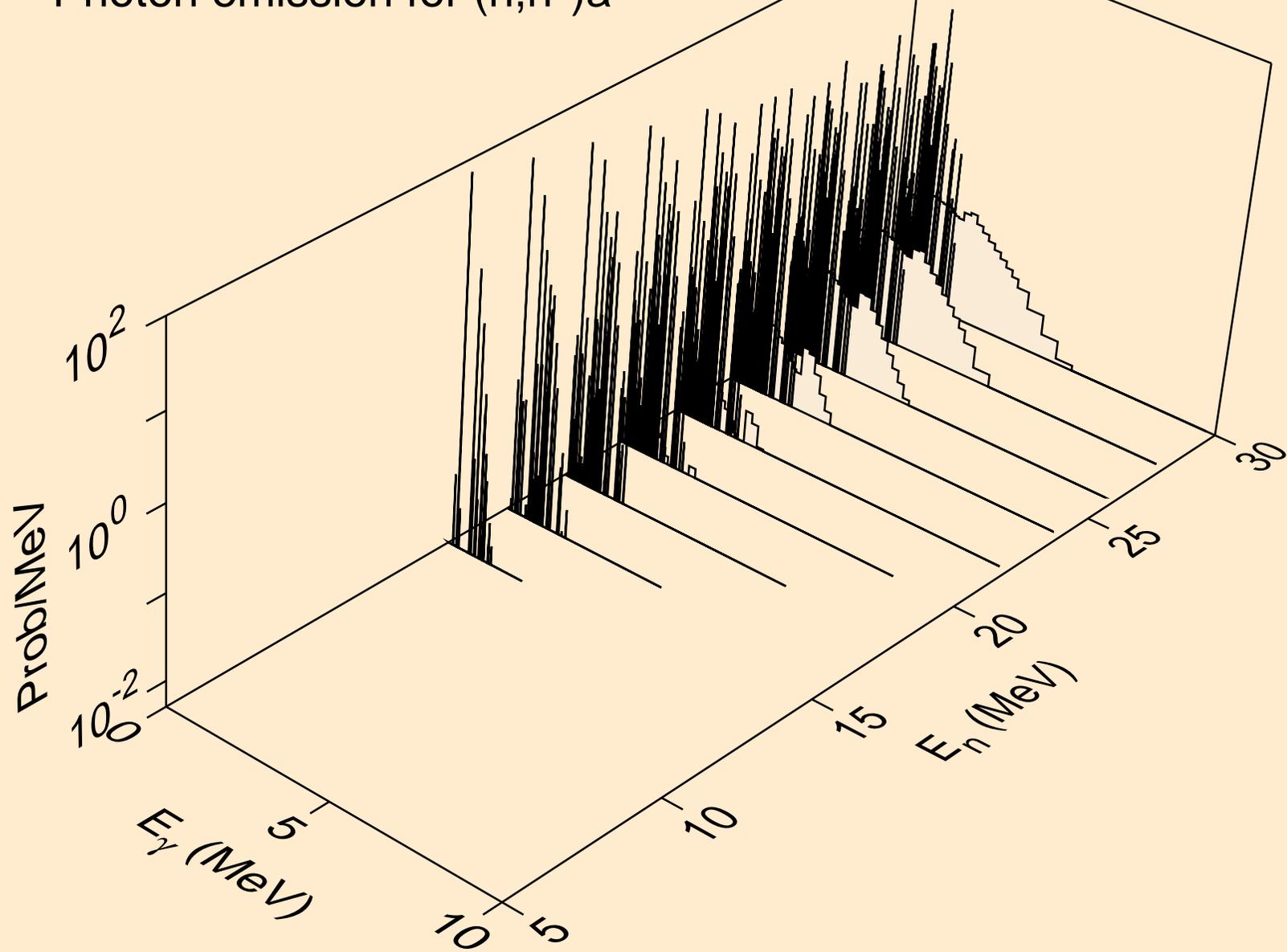Photon emission for (z,x)

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
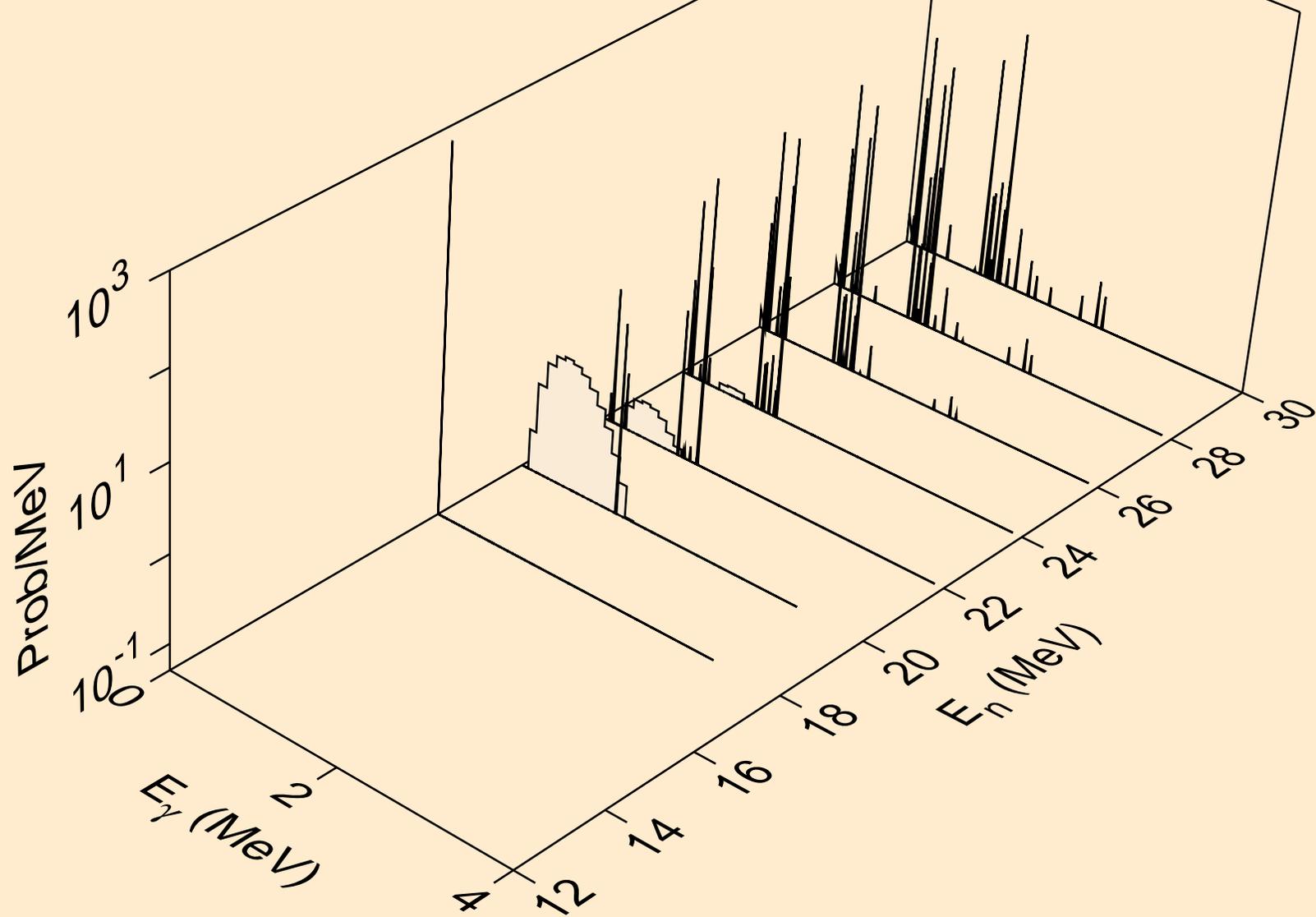Photon emission for (n,2n)

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,3n)

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,n*)a

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,2n)a

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
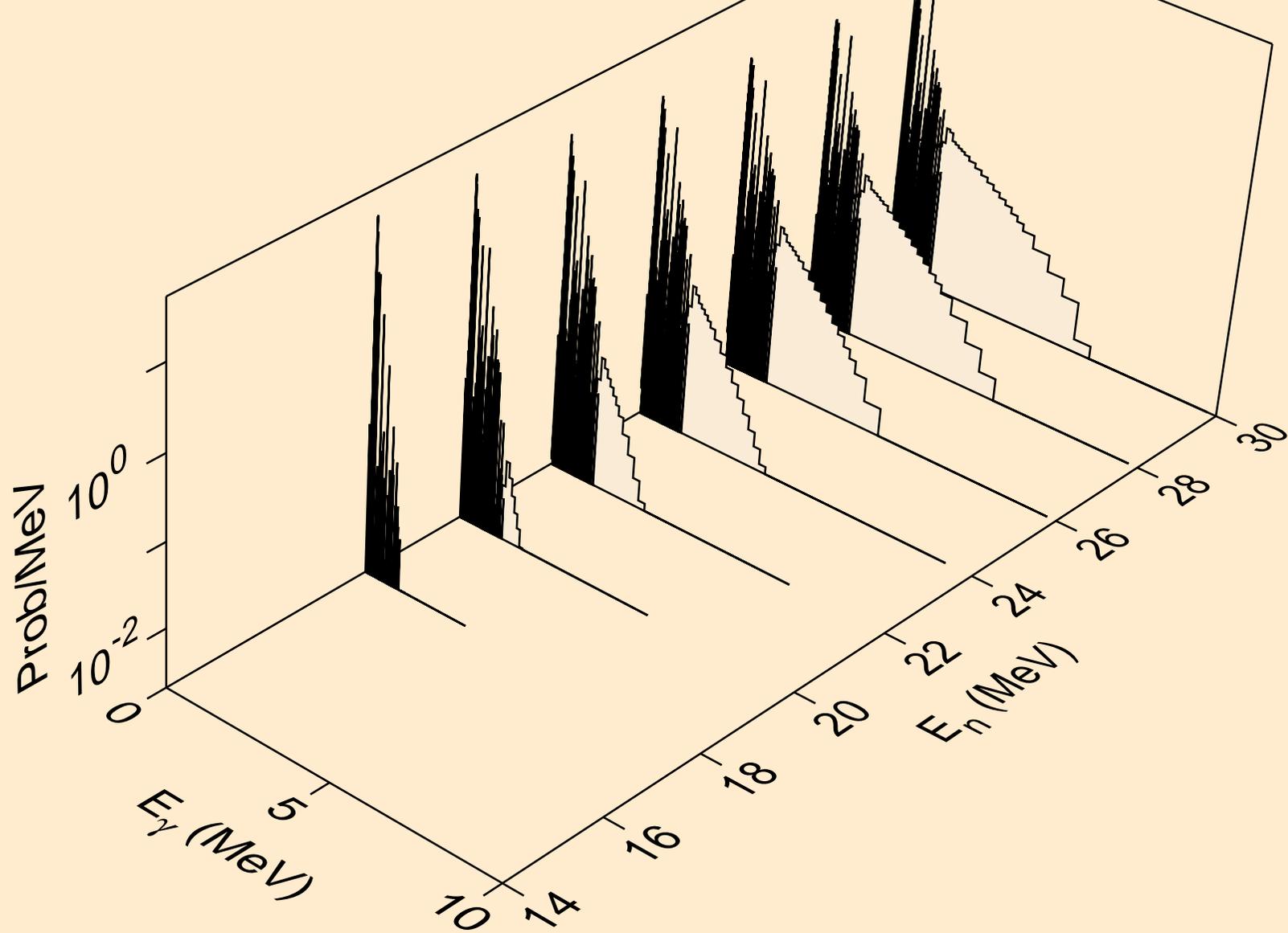Photon emission for (n,n*)p

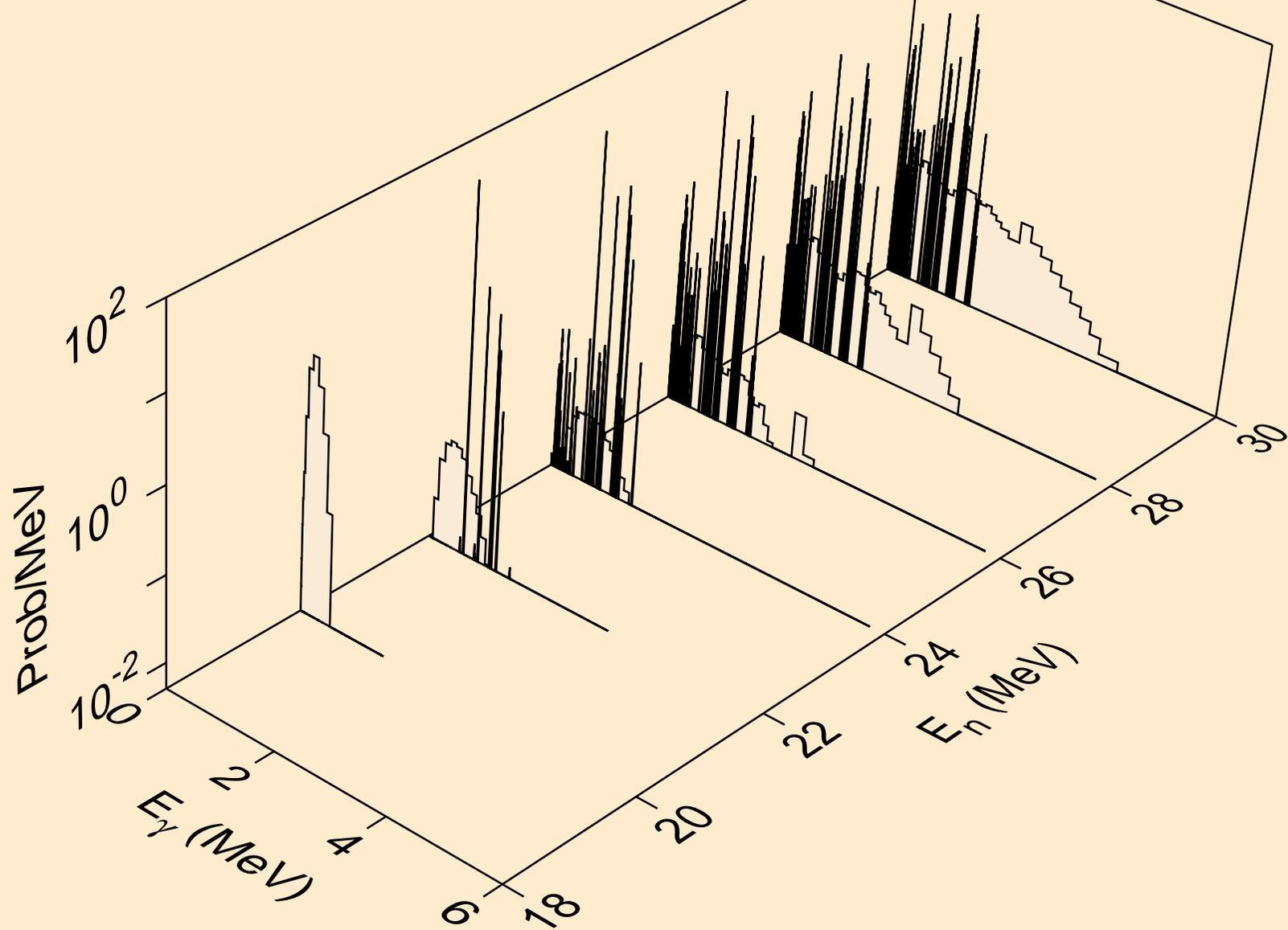SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,n*)d

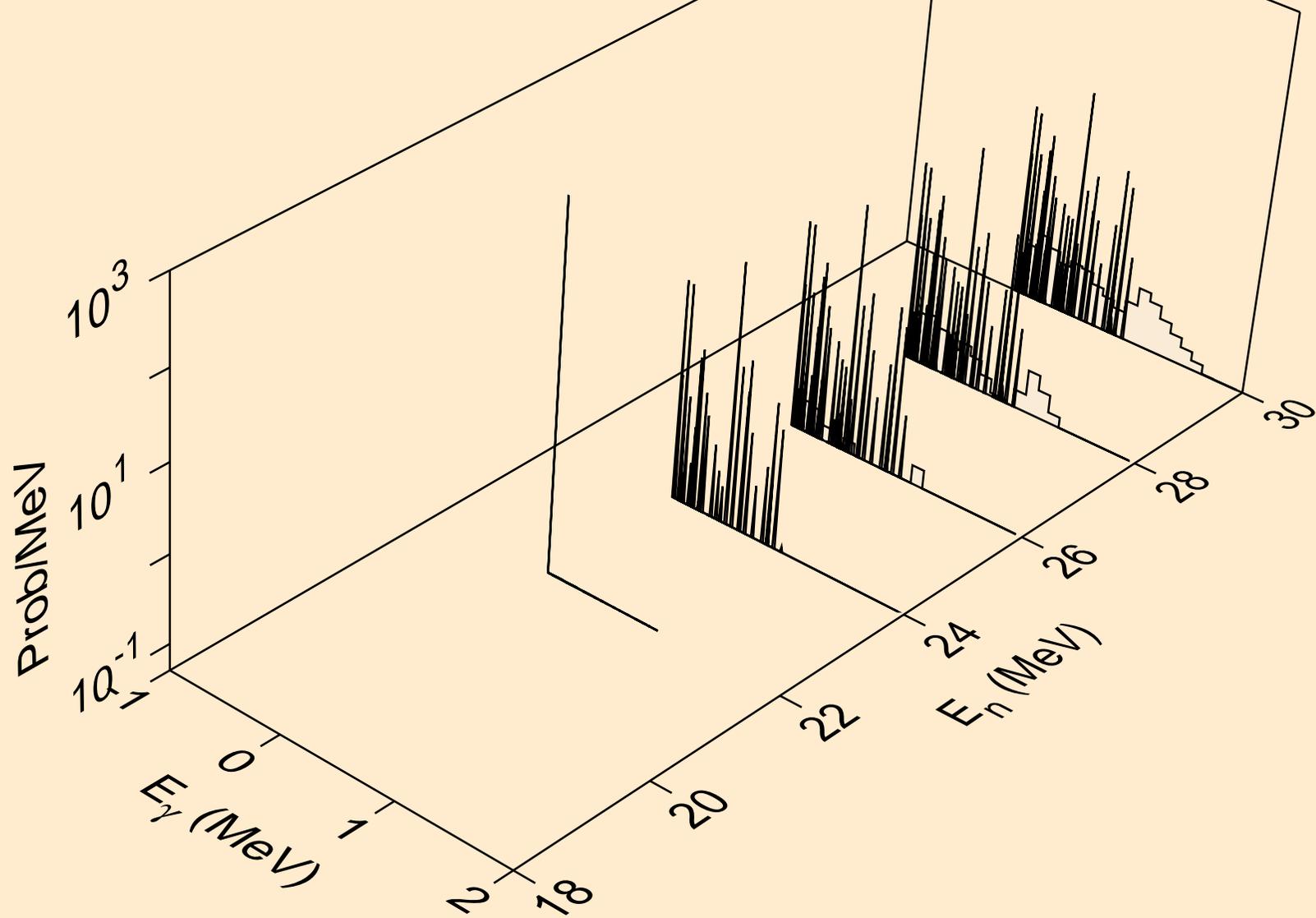SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,n*)t

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,4n)

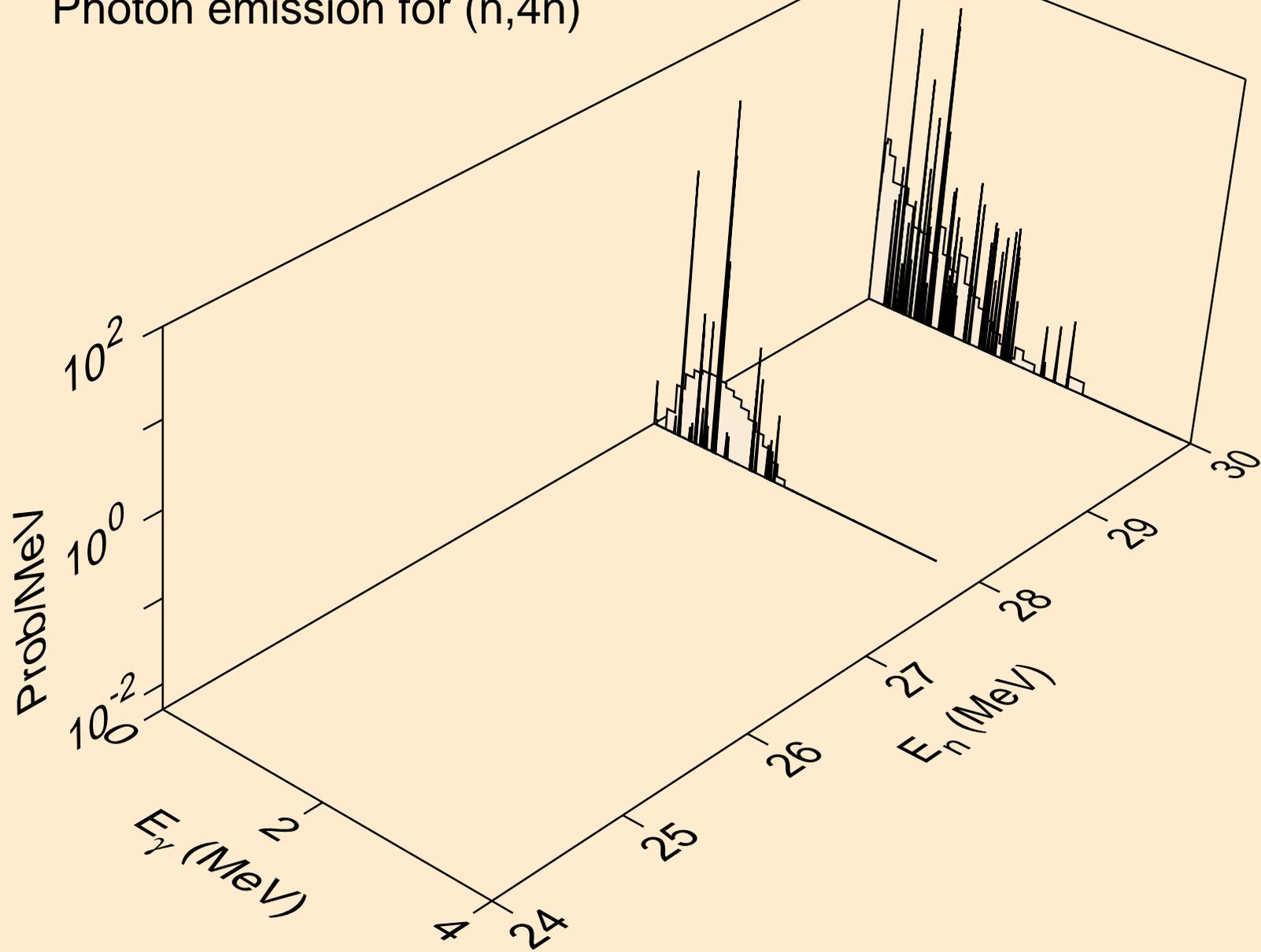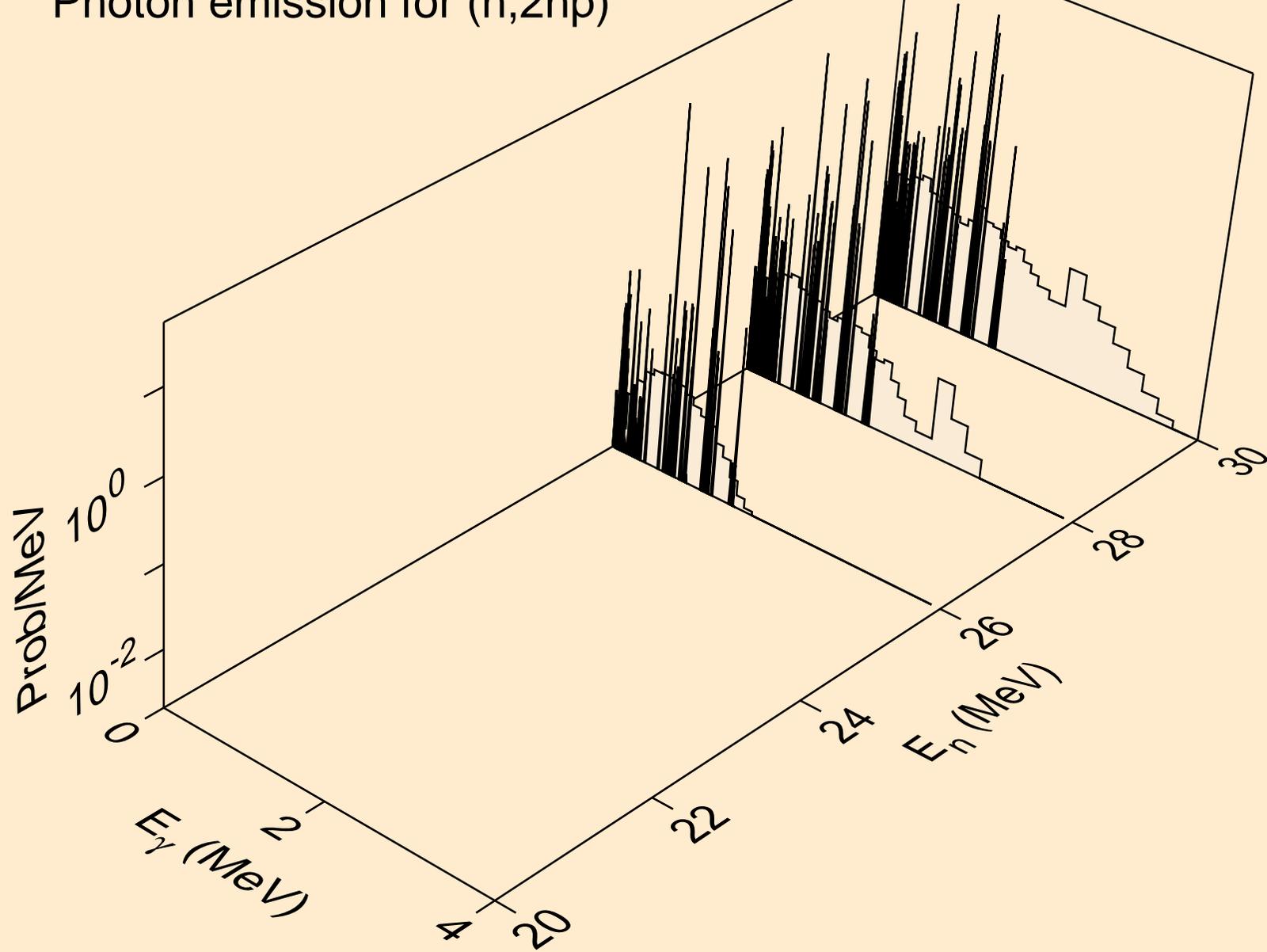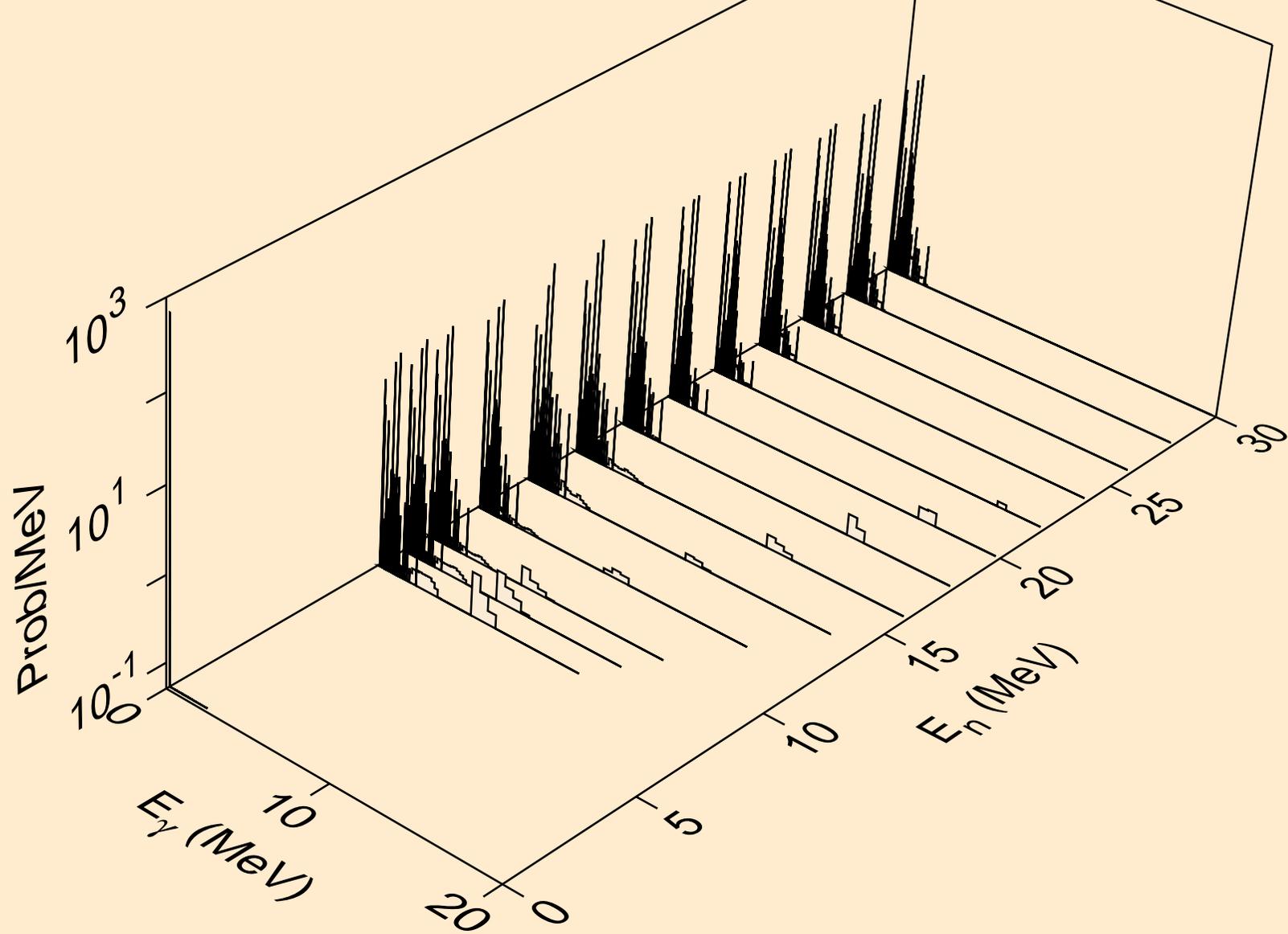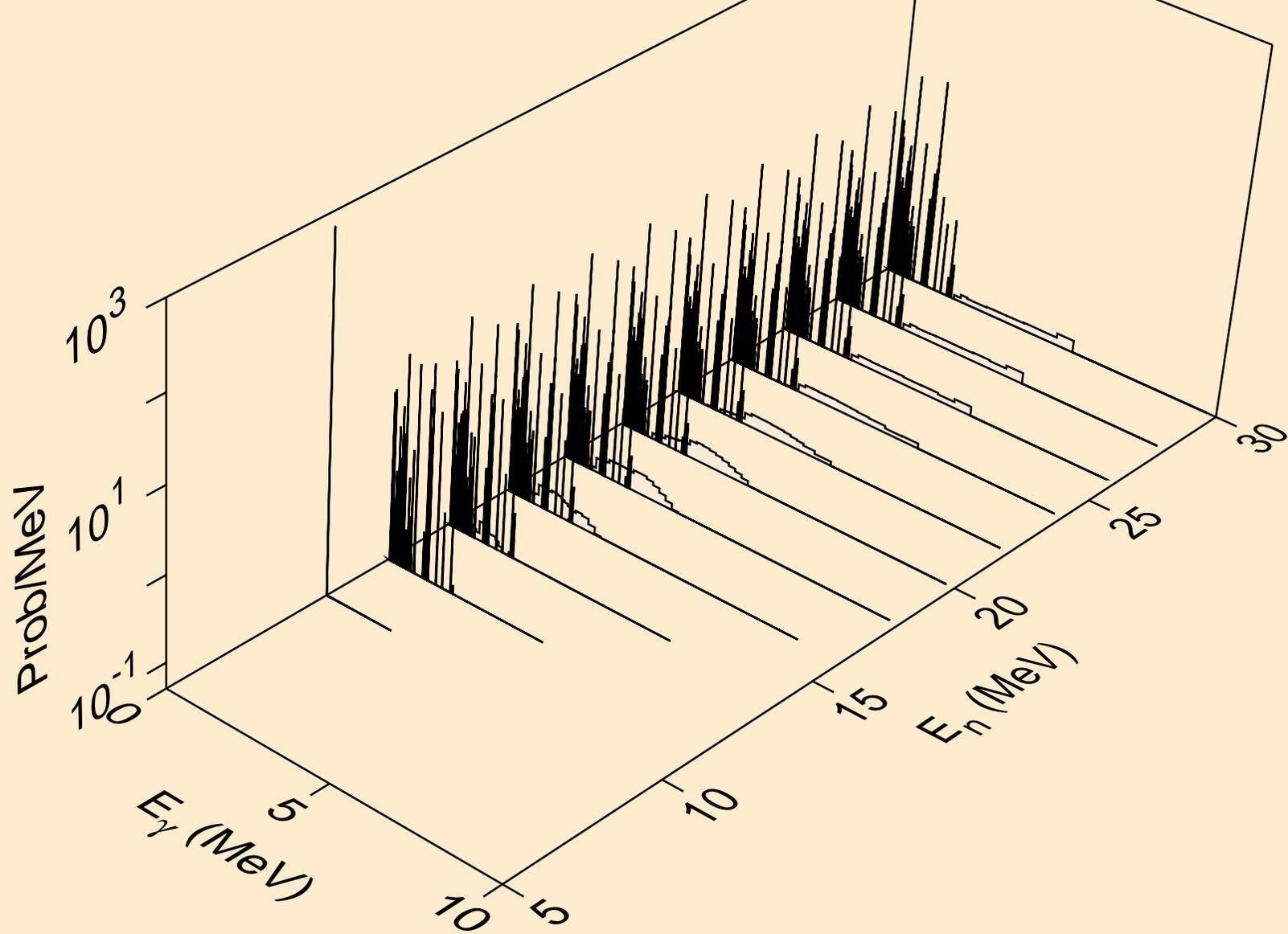SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
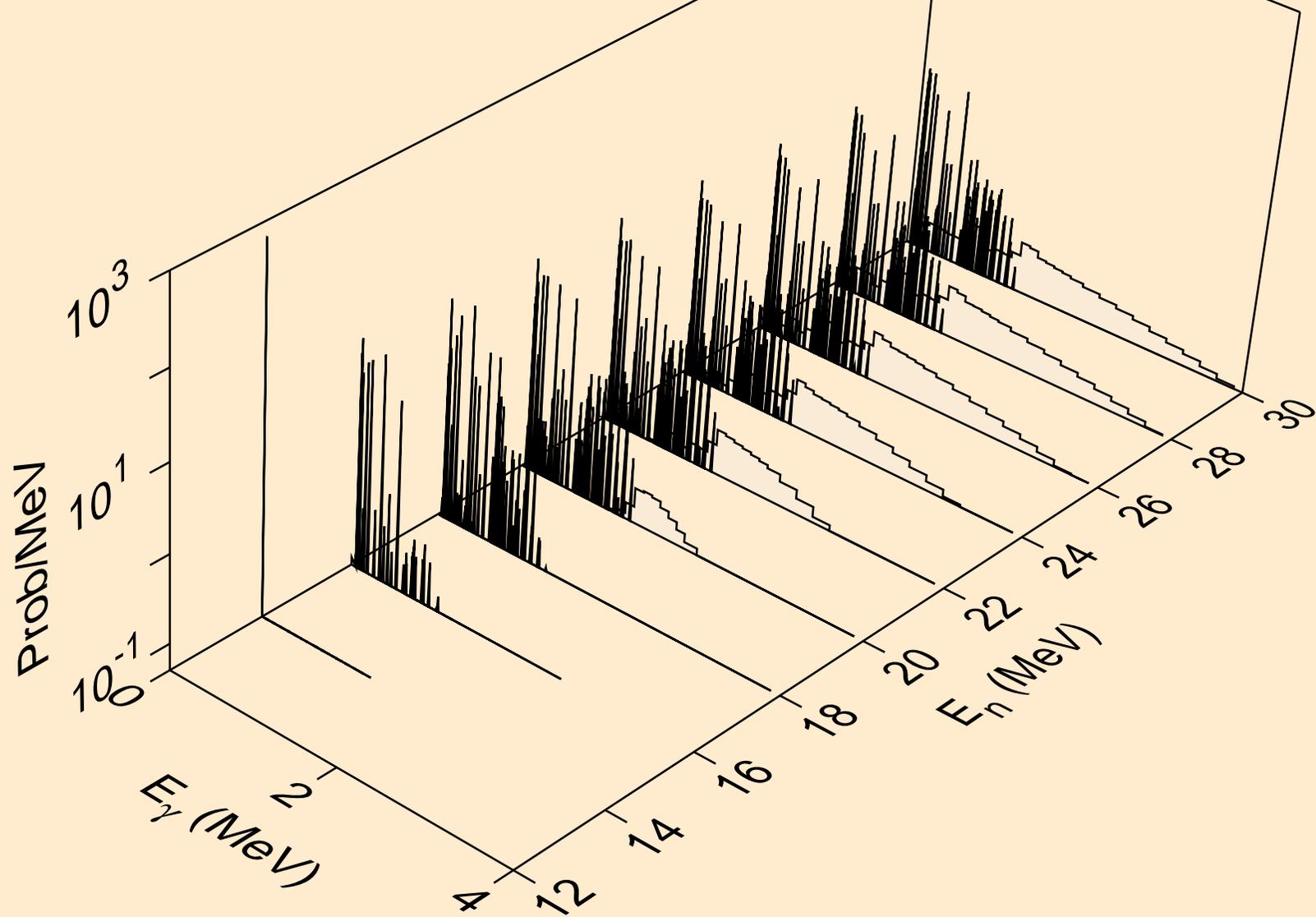Photon emission for (n,2np)

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
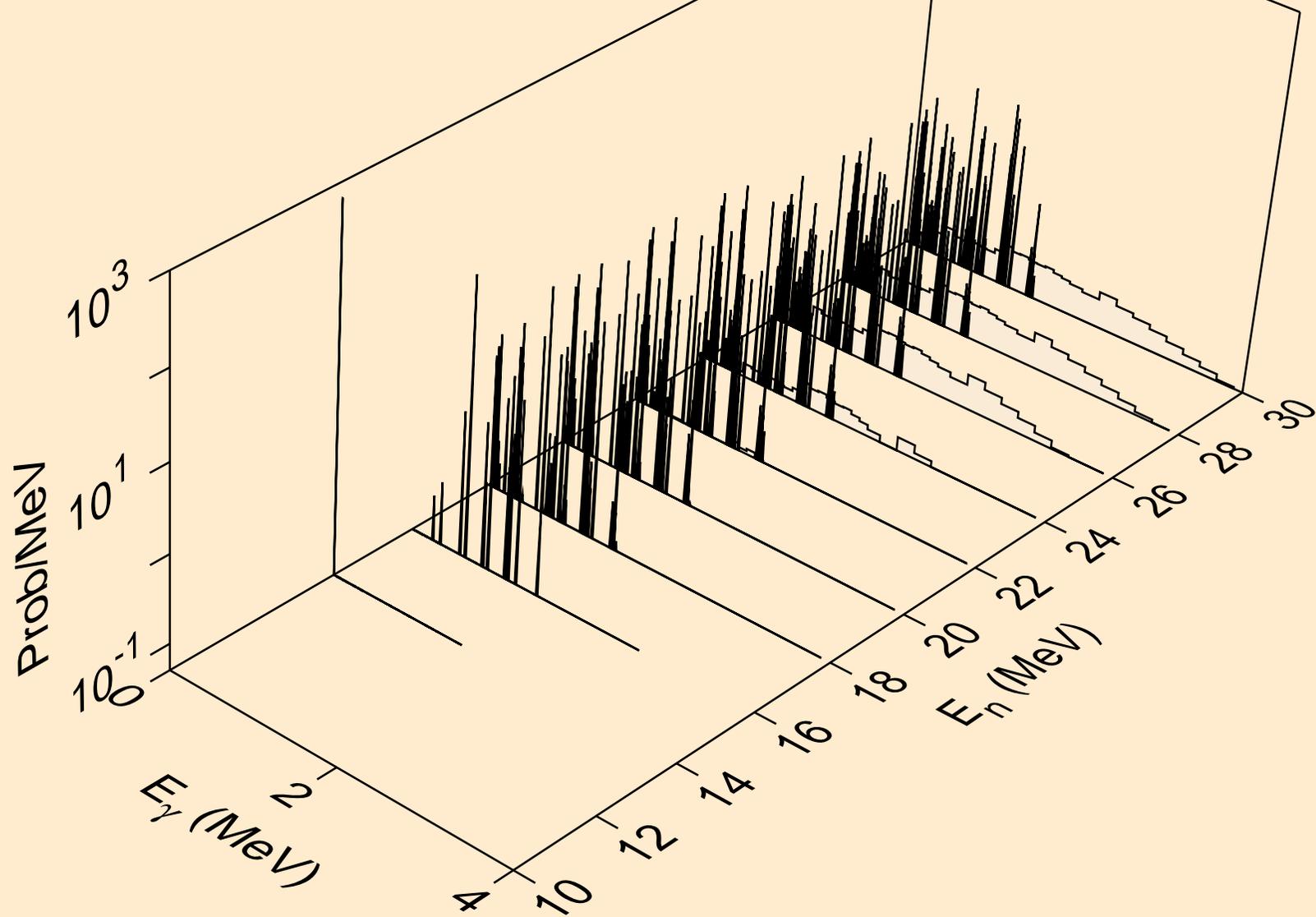Photon emission for (n,gma)

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
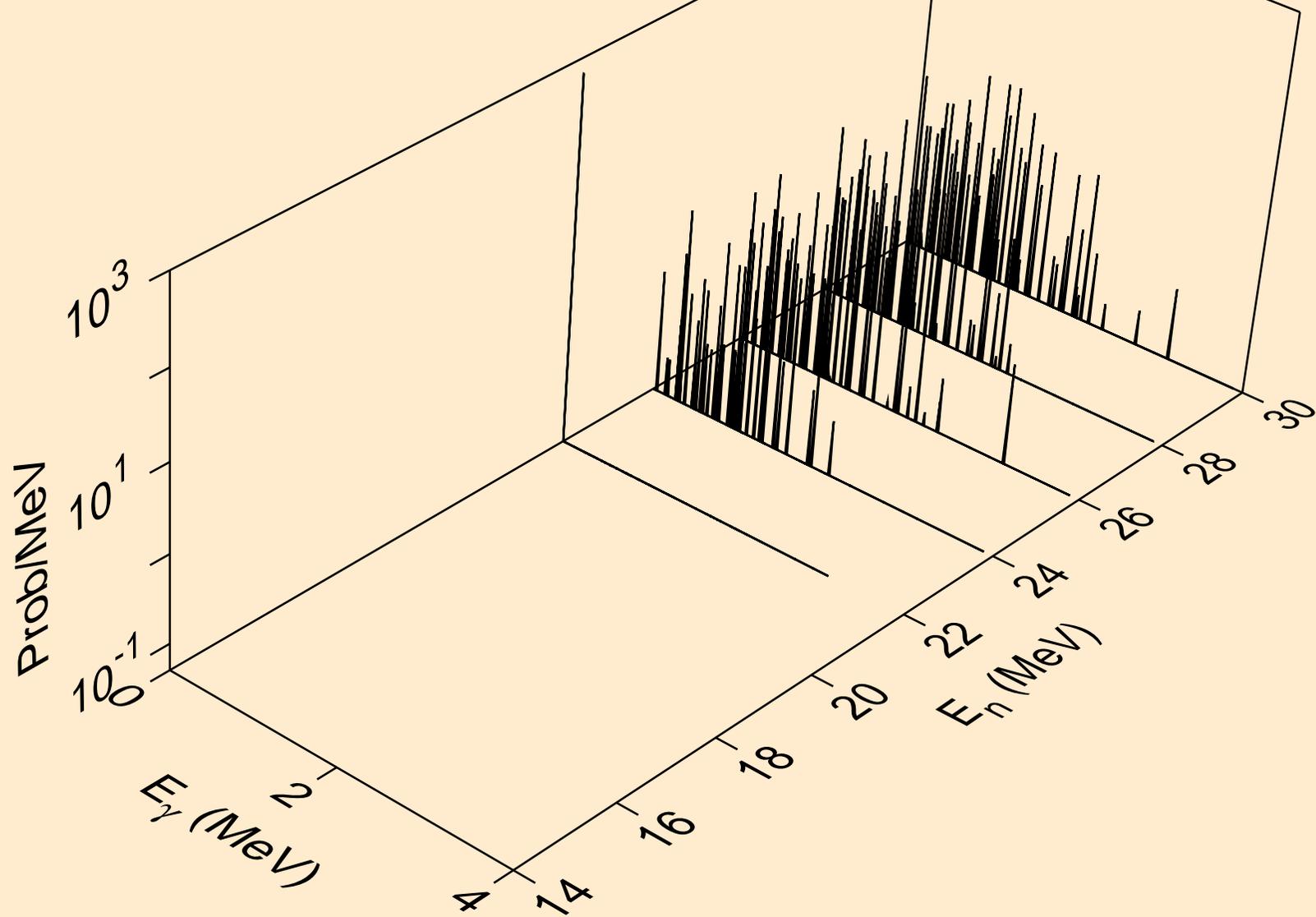Photon emission for (n,p)

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
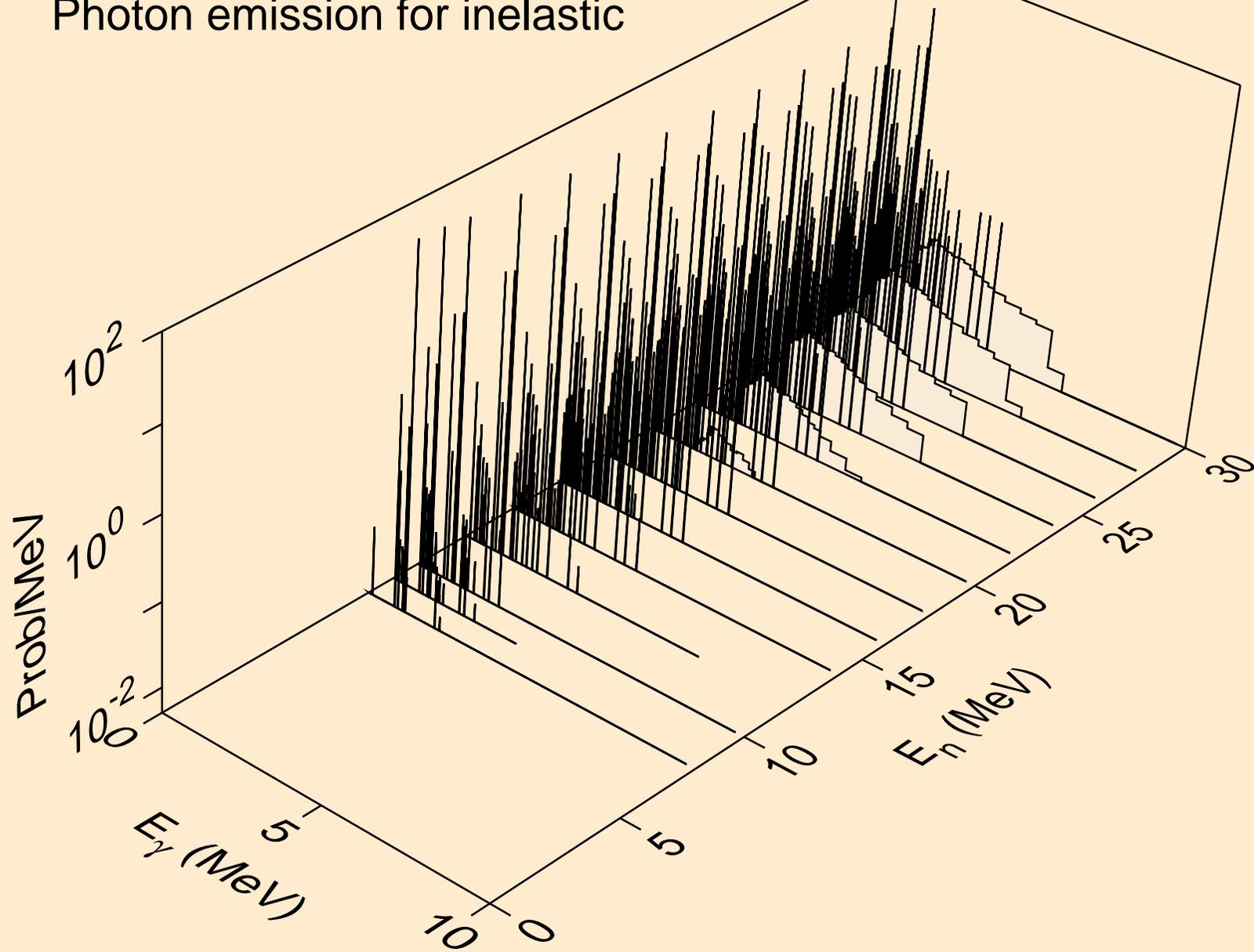Photon emission for (n,d)

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,t)
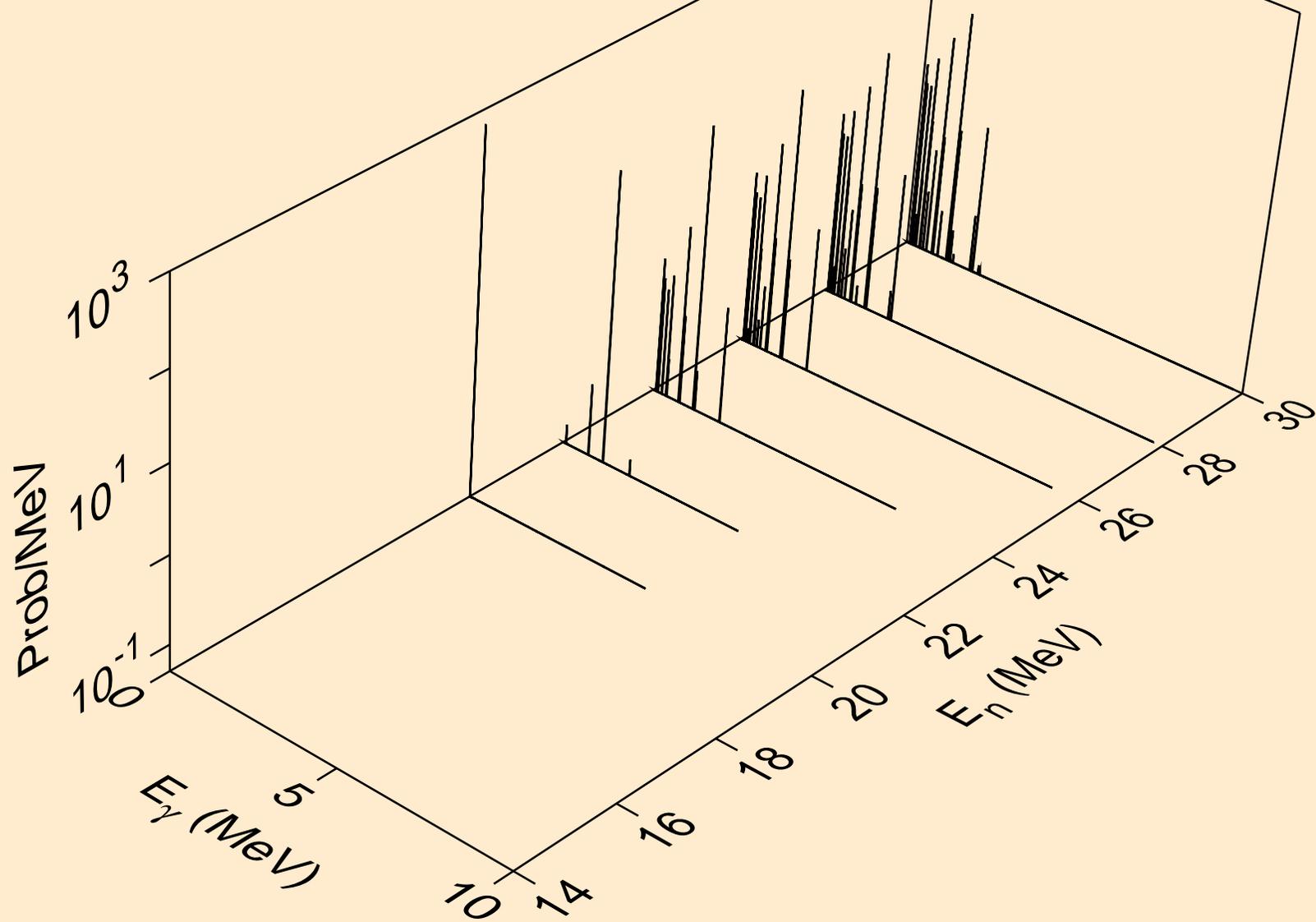
E_γ (MeV)

E_n (MeV)

Prob/MeV

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
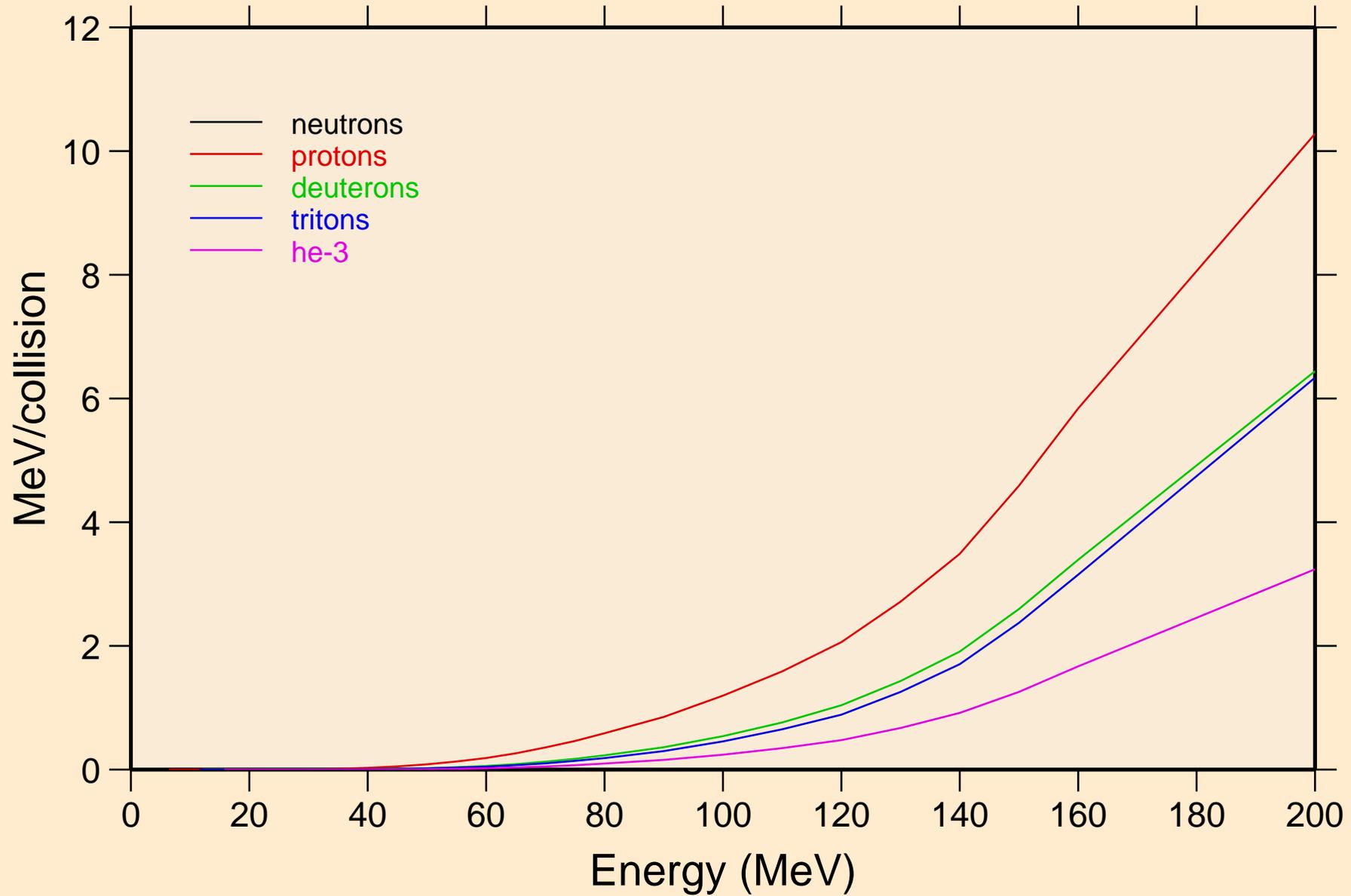Photon emission for (n,he3)

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for inelastic
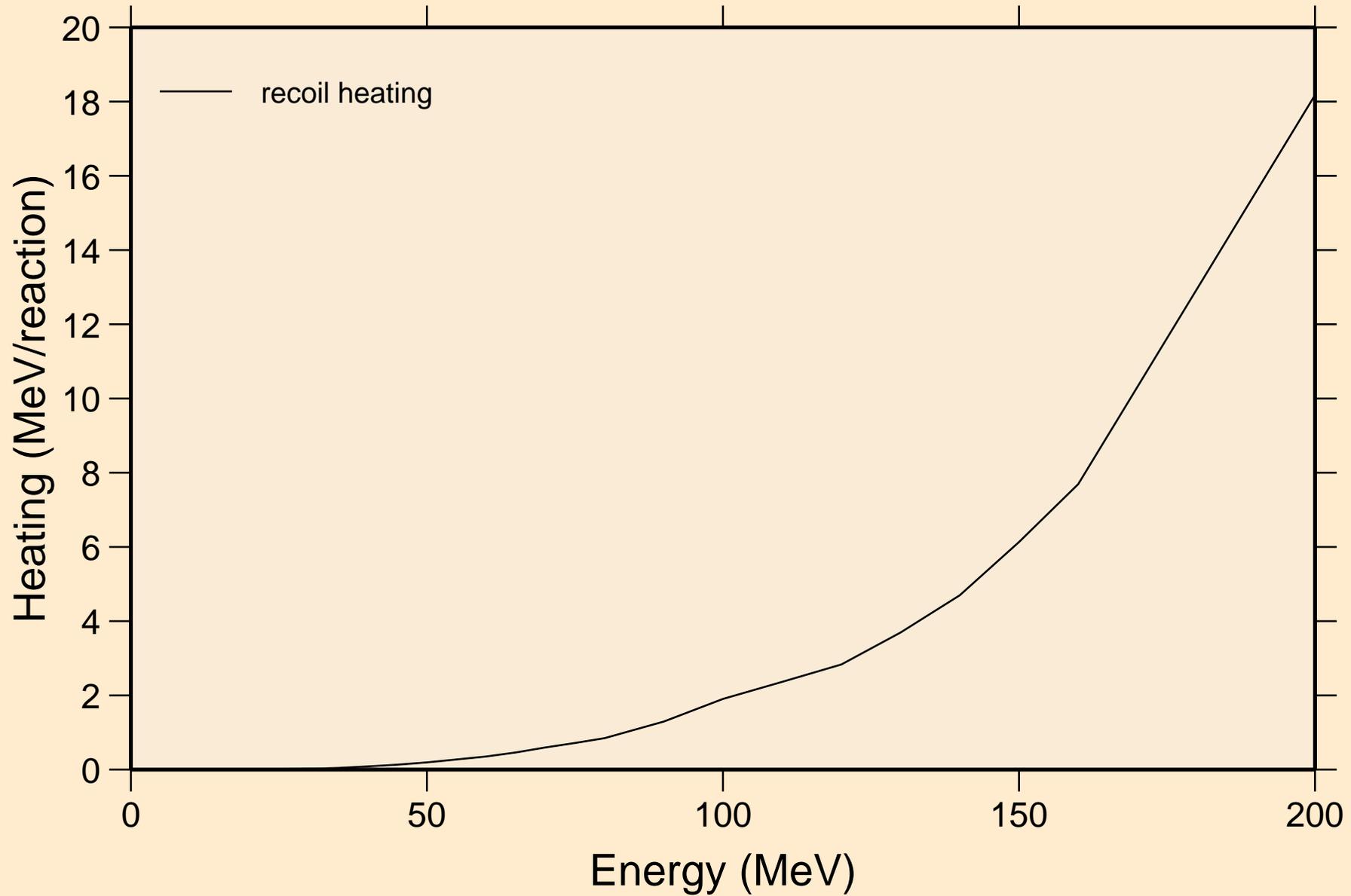
SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
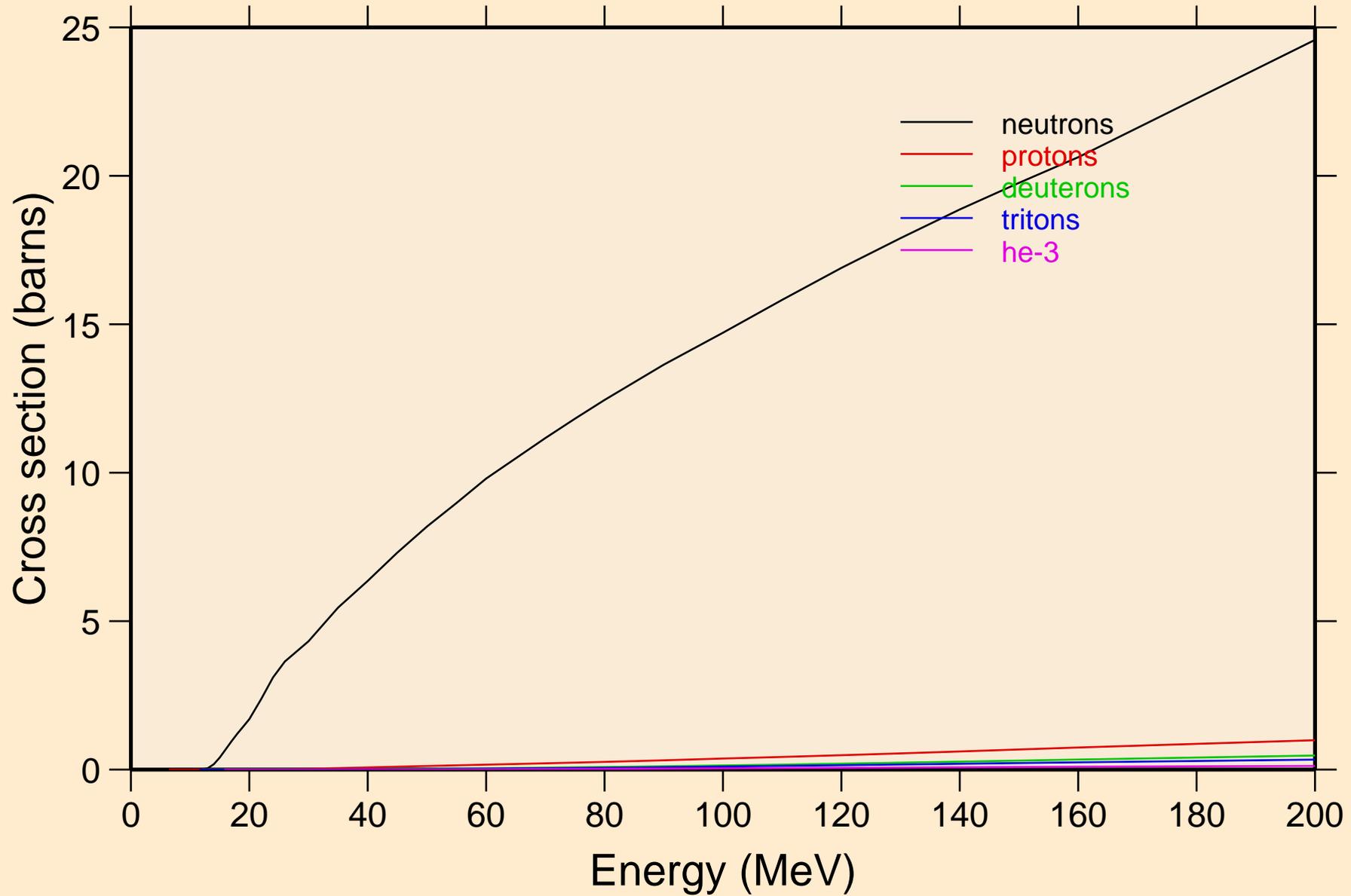Photon emission for (n,2p)

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
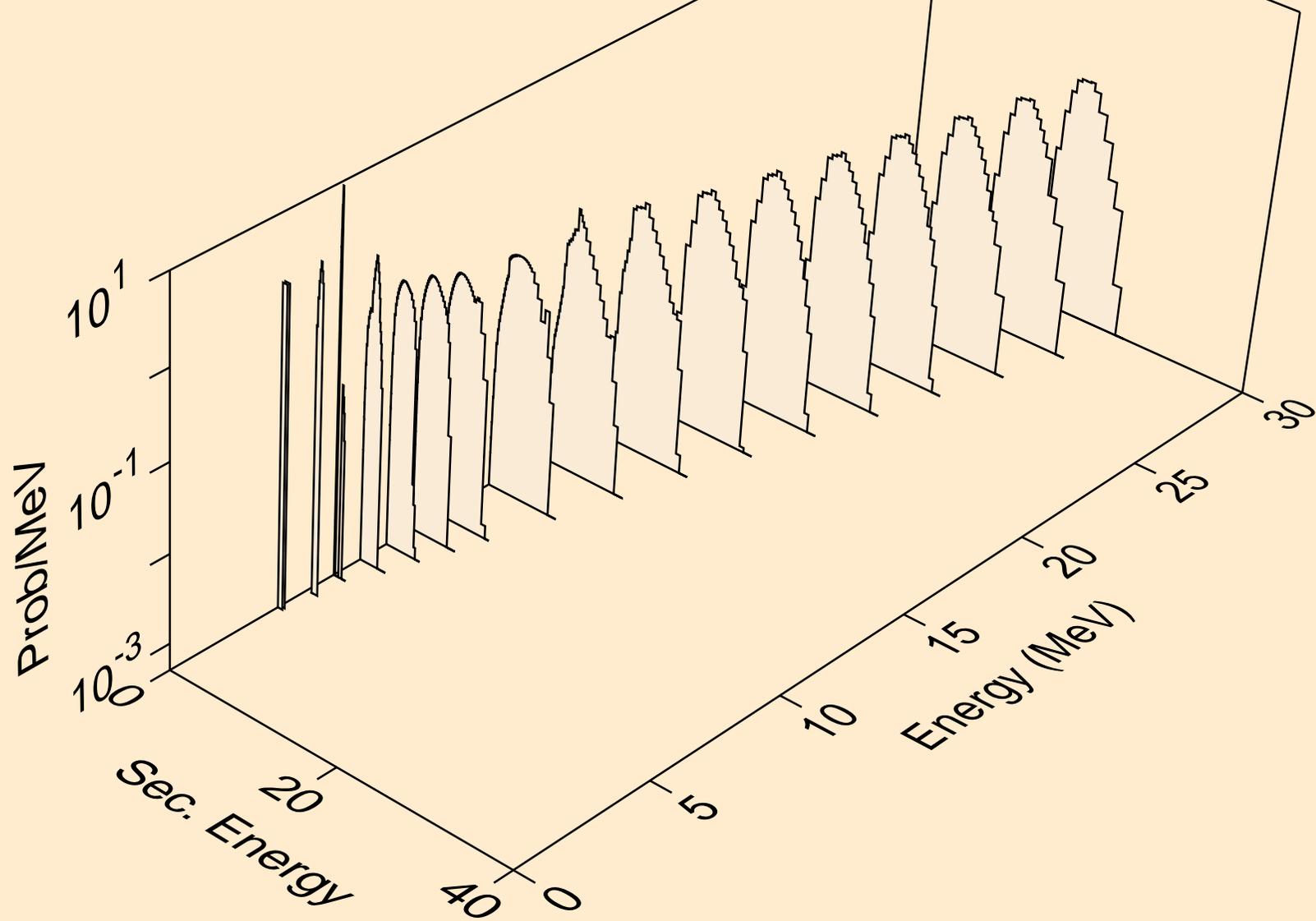Particle heating contributions

neutrons
protons
deuterons
tritons
he-3

MeV/collision

Energy (MeV)

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Recoil Heating

recoil heating

Heating (MeV/reaction)

Energy (MeV)

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Particle production cross sections

neutrons
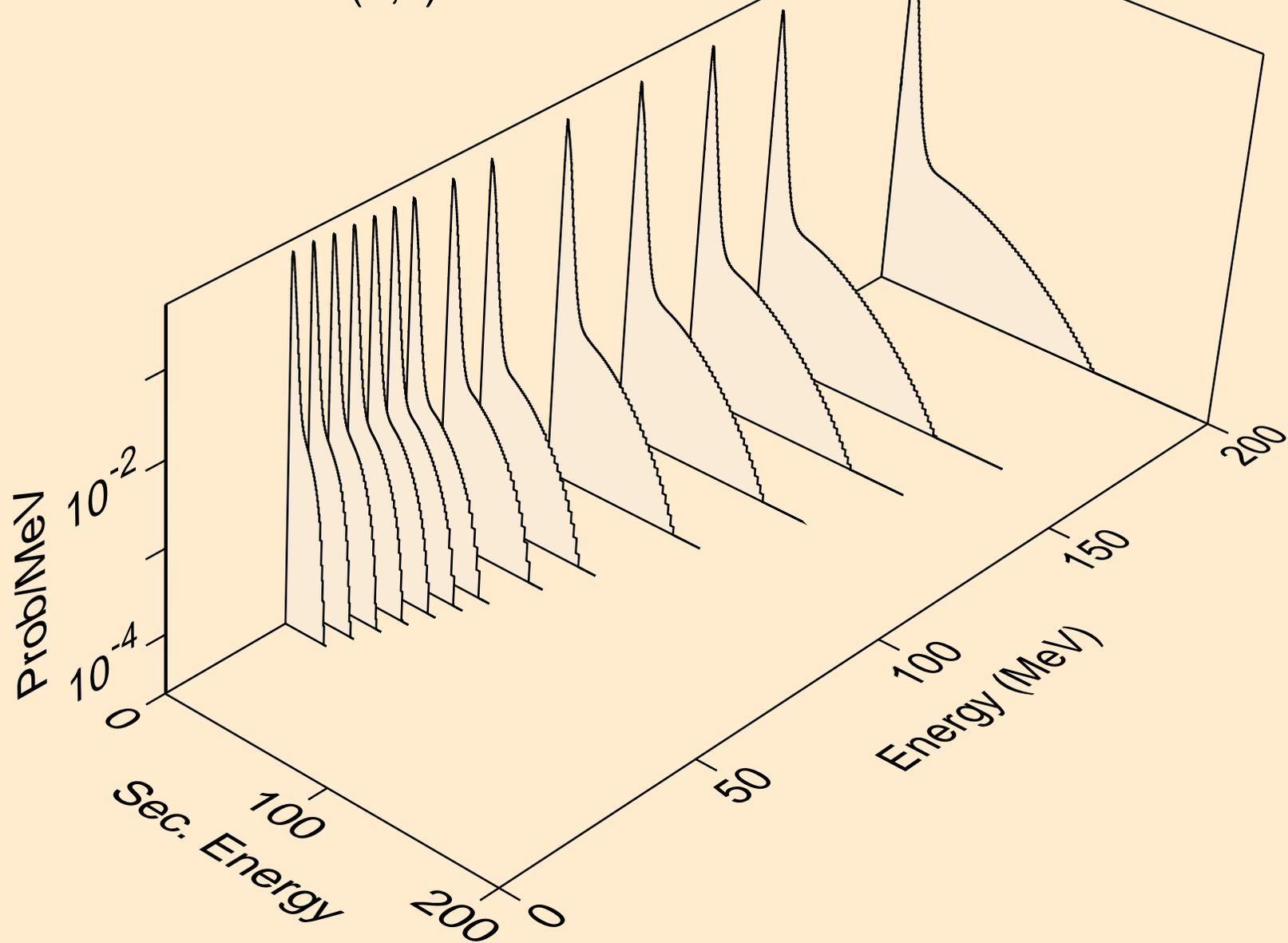protons
deuterons
tritons
he-3
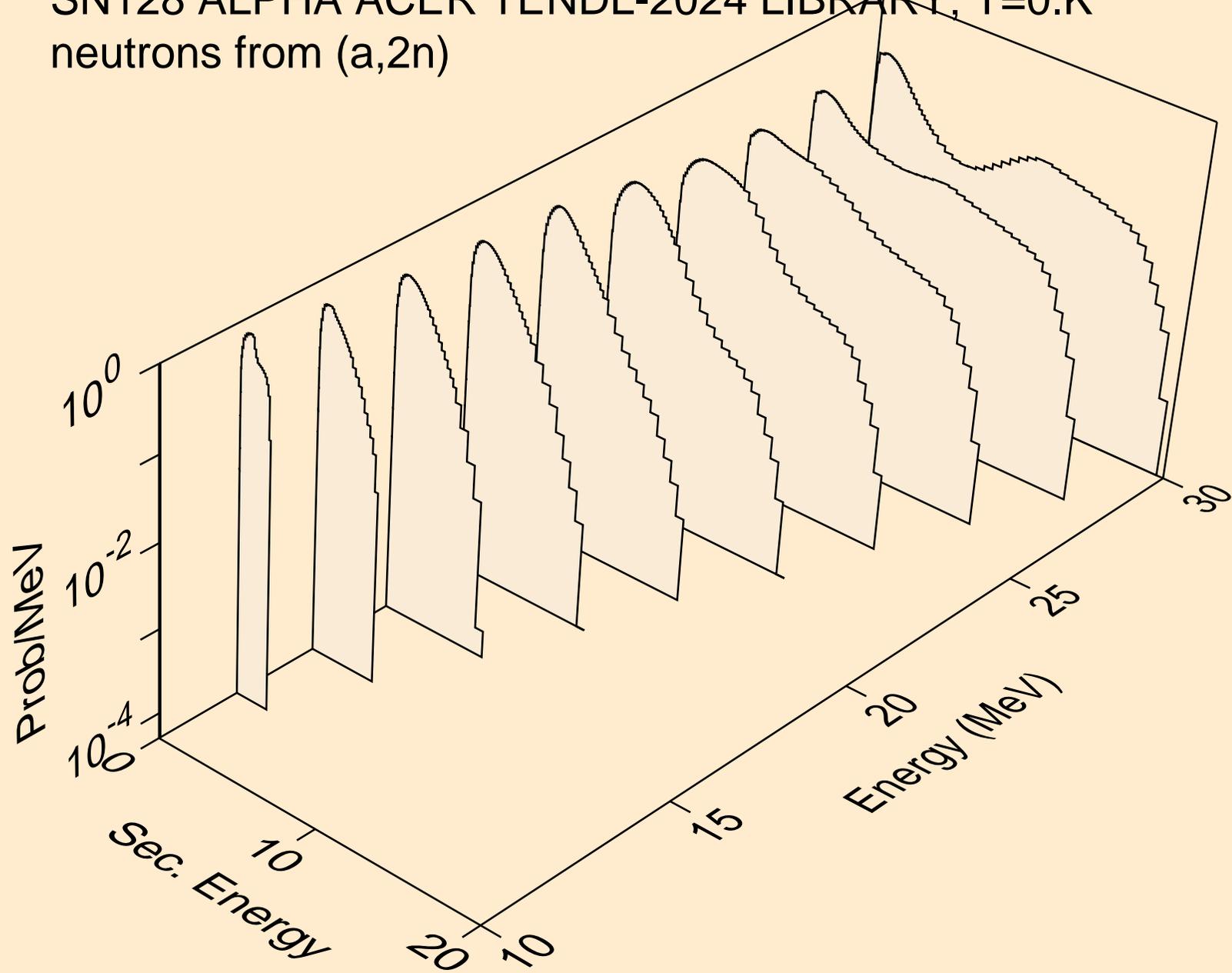
Cross section (barns)

Energy (MeV)

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
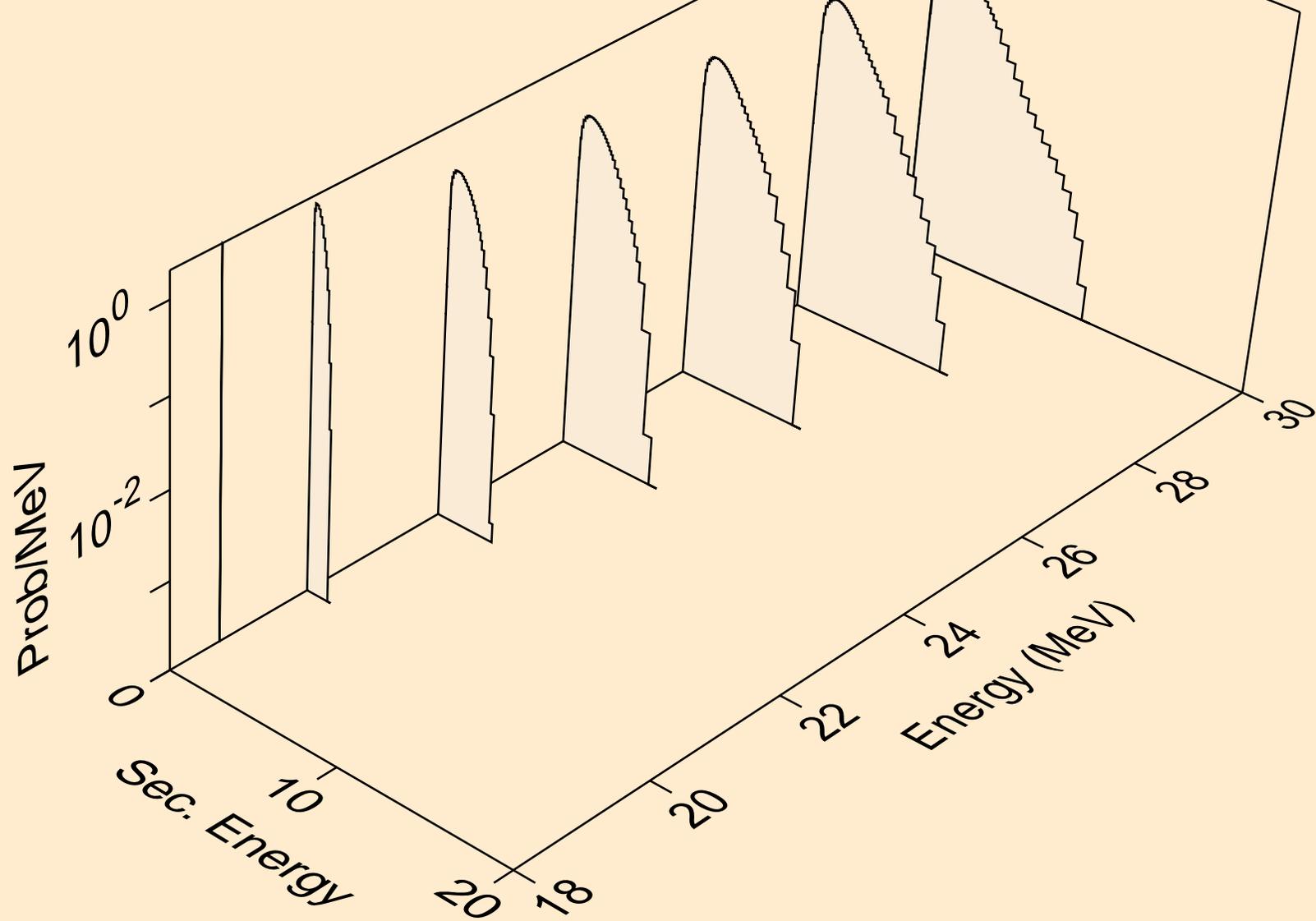neutrons from (a,n)

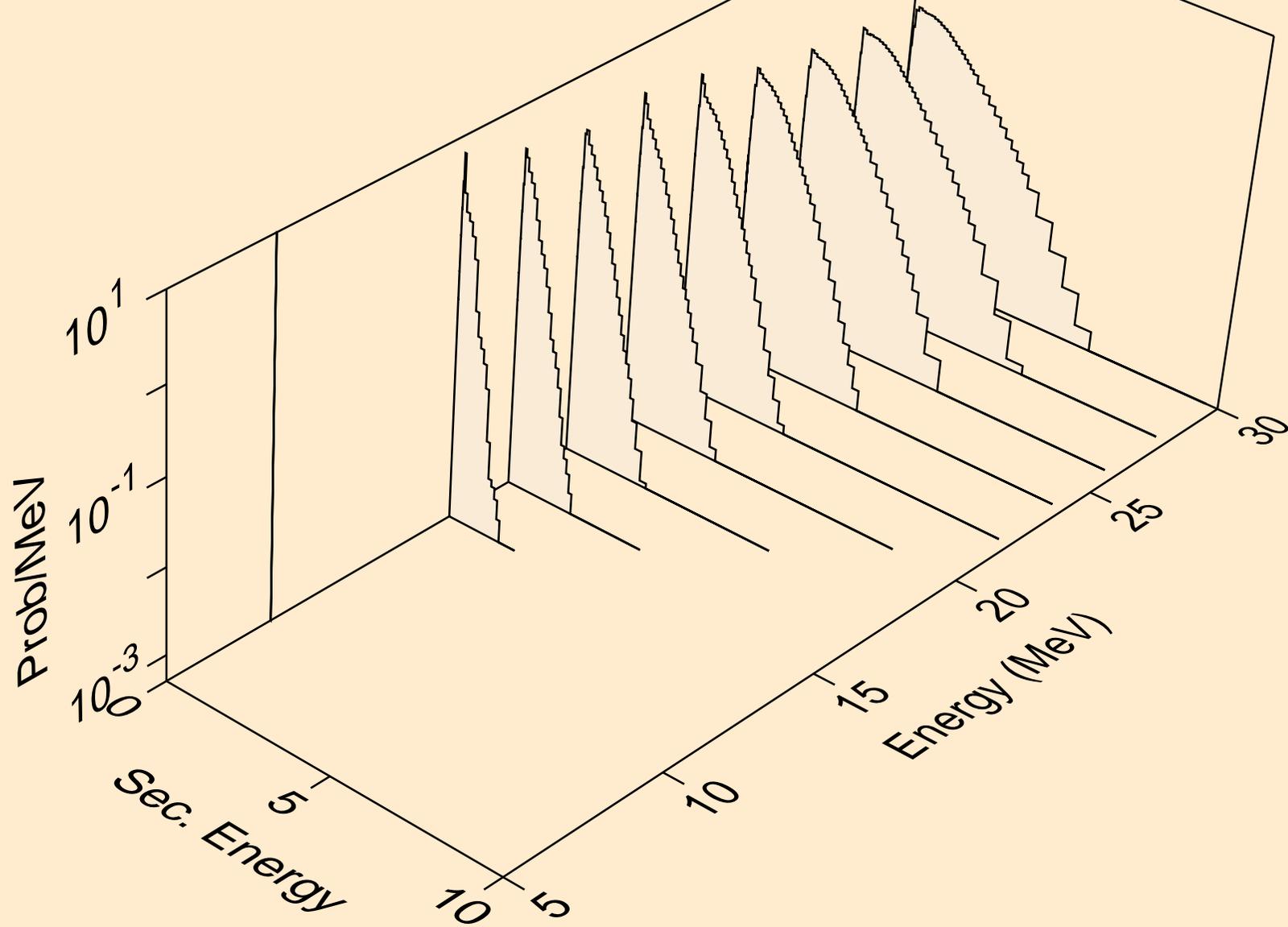SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
neutrons from (a,x)

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
neutrons from (a,2n)

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
neutrons from (a,3n)

ProbIMeV

10^0

10^{-2}

0

Sec. Energy

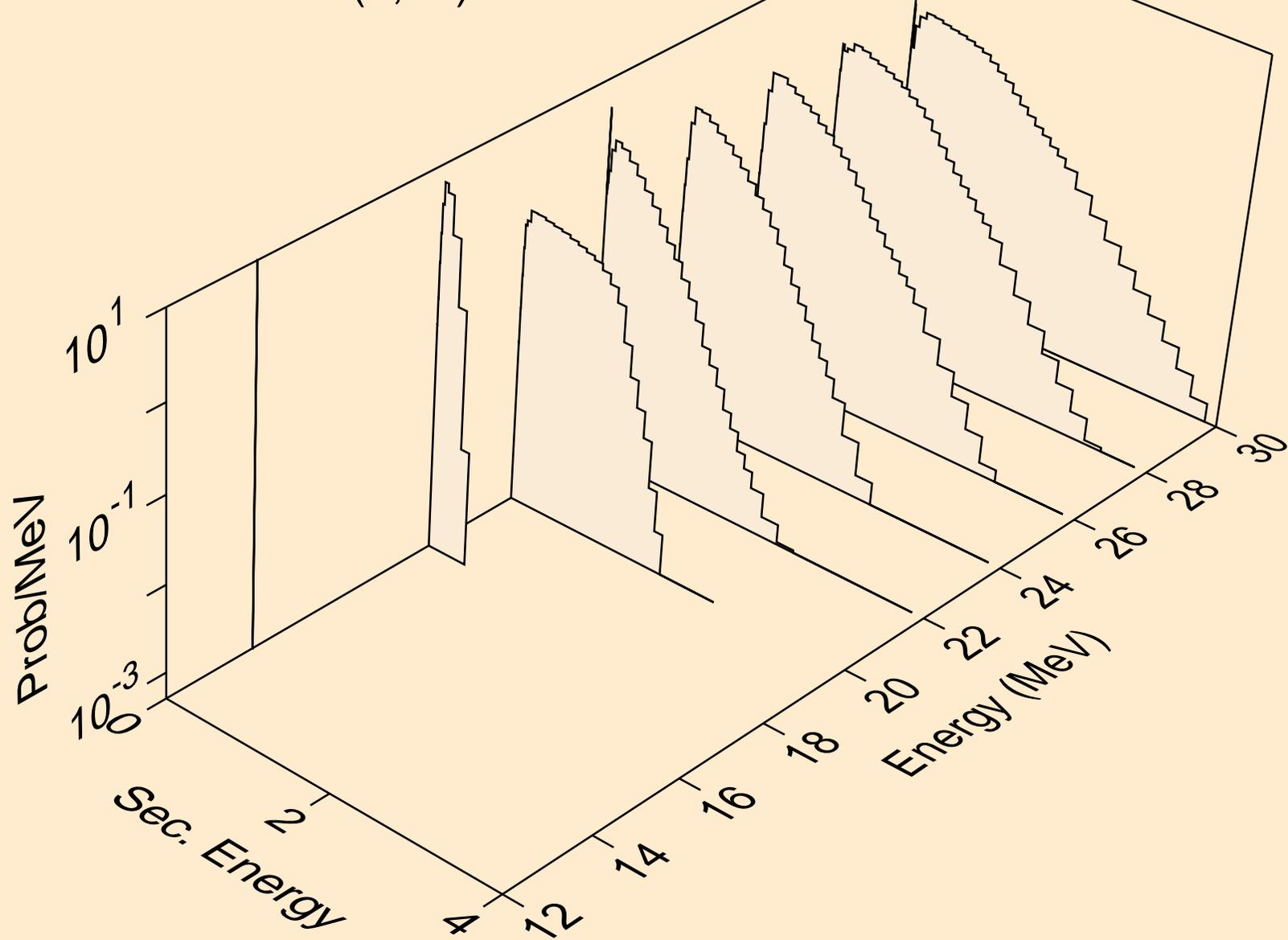10

20

18
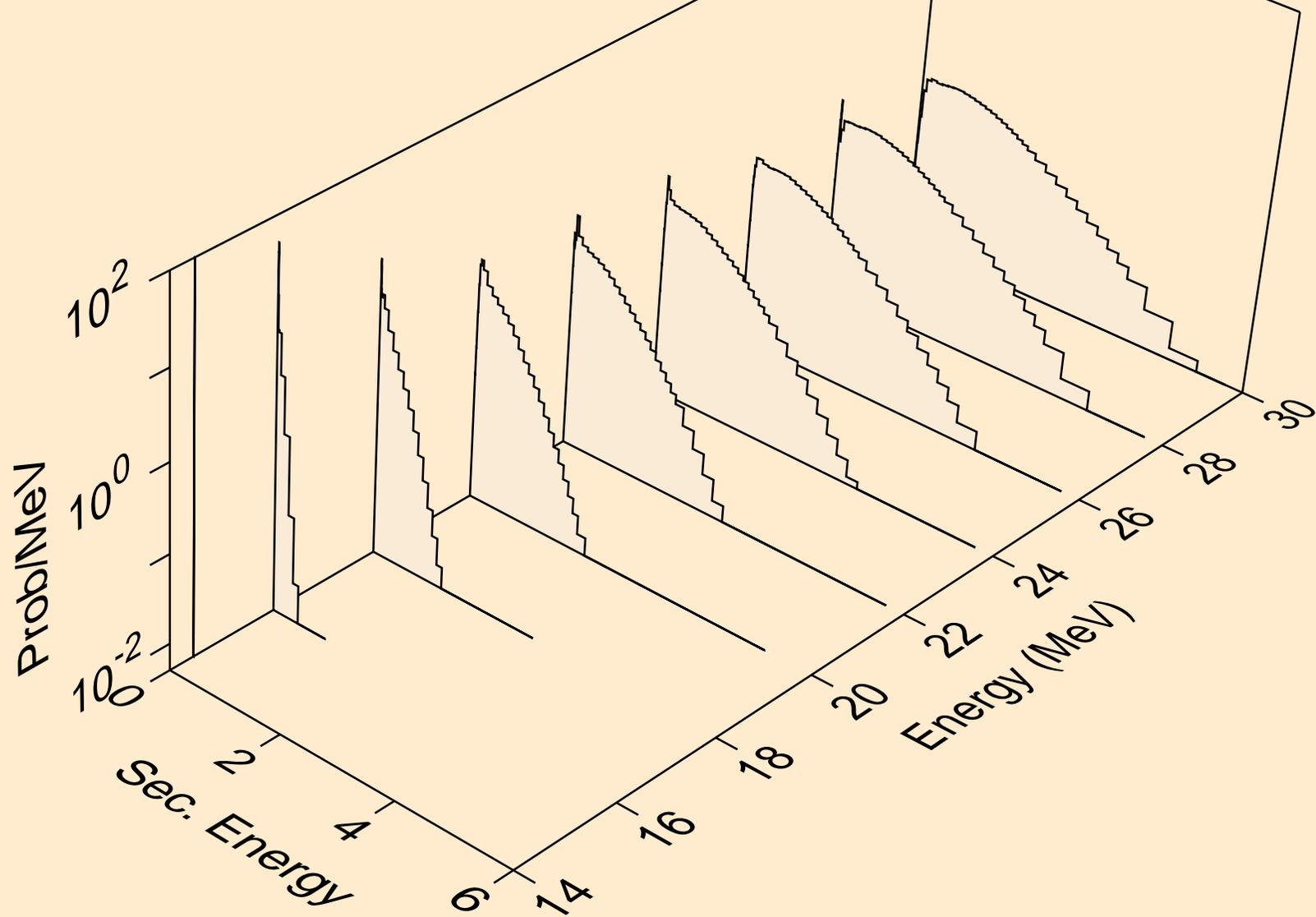
20

22

24

26

28

30

Energy (MeV)

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
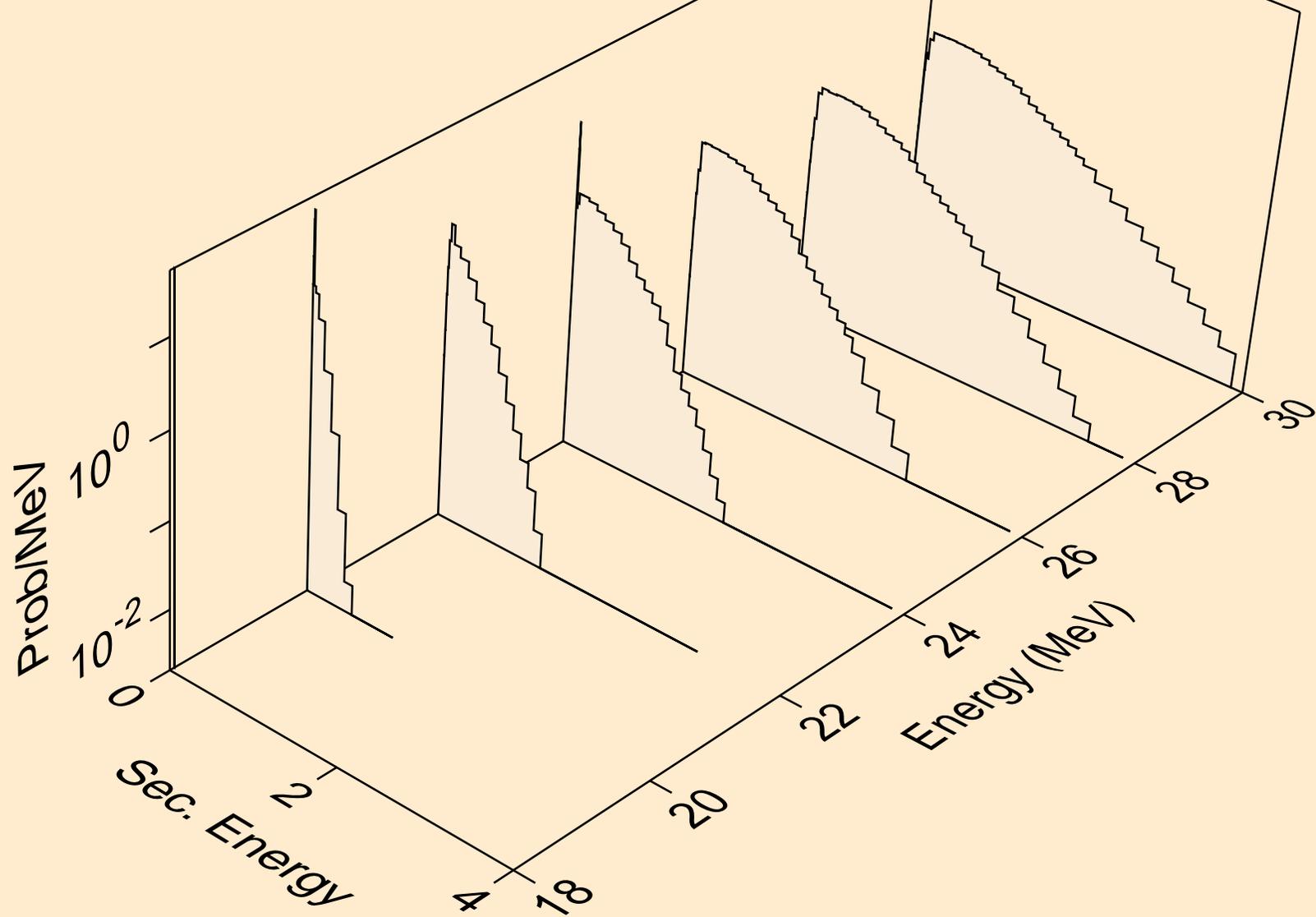neutrons from (a,n*)a

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
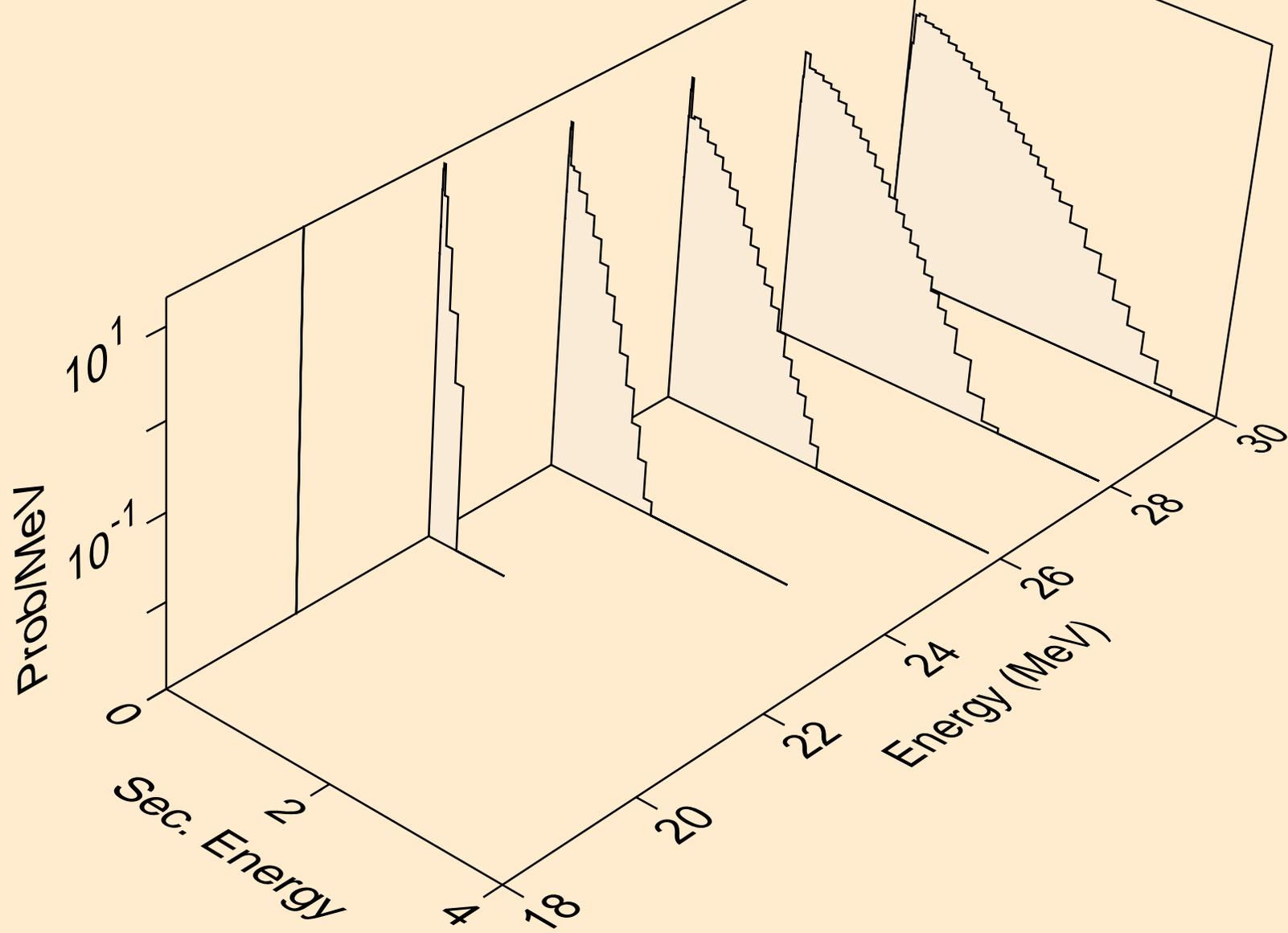neutrons from (a,2n)a

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
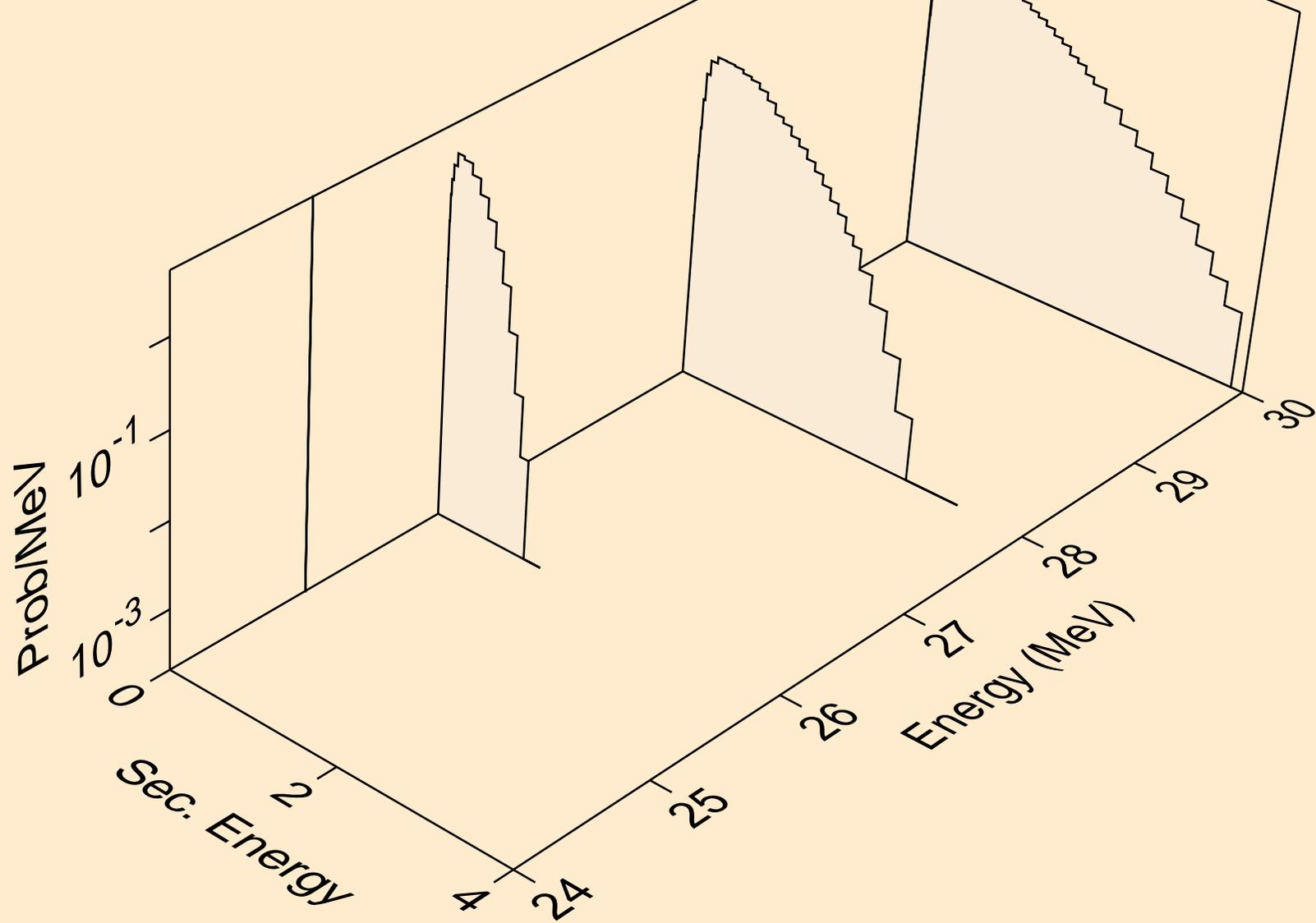neutrons from (a,n*)p

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
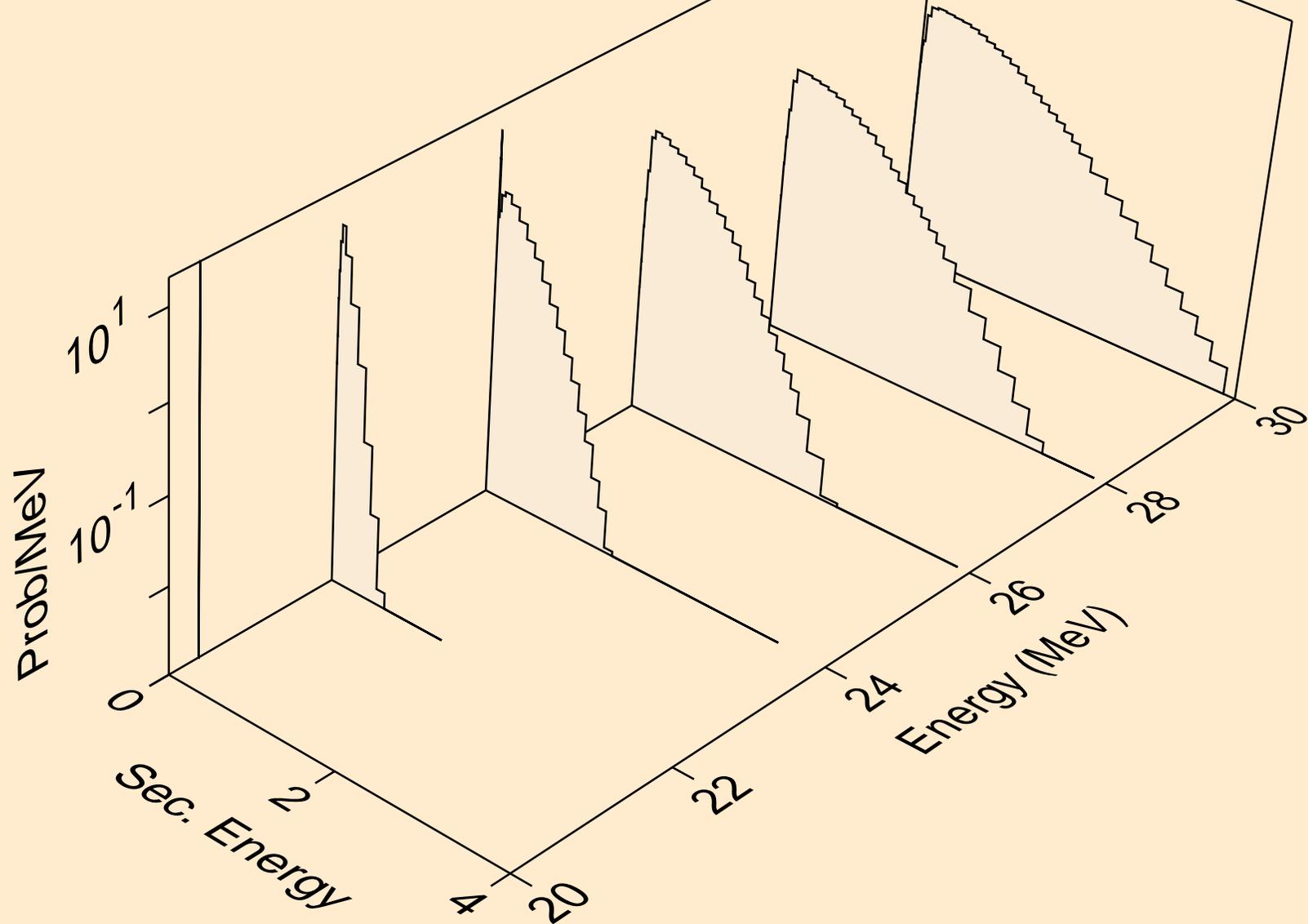neutrons from (a,n*)d

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
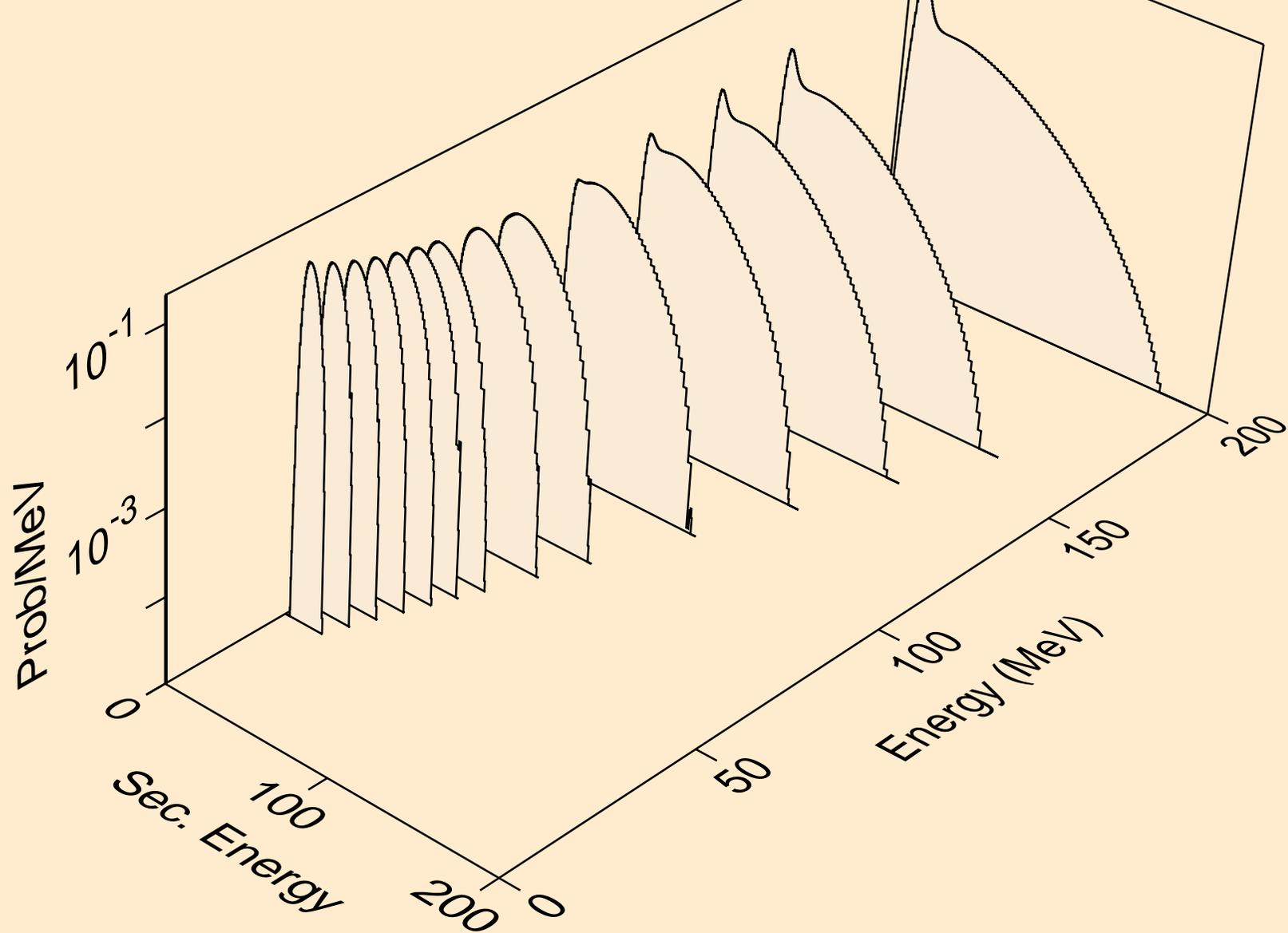neutrons from (a,n*)t

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
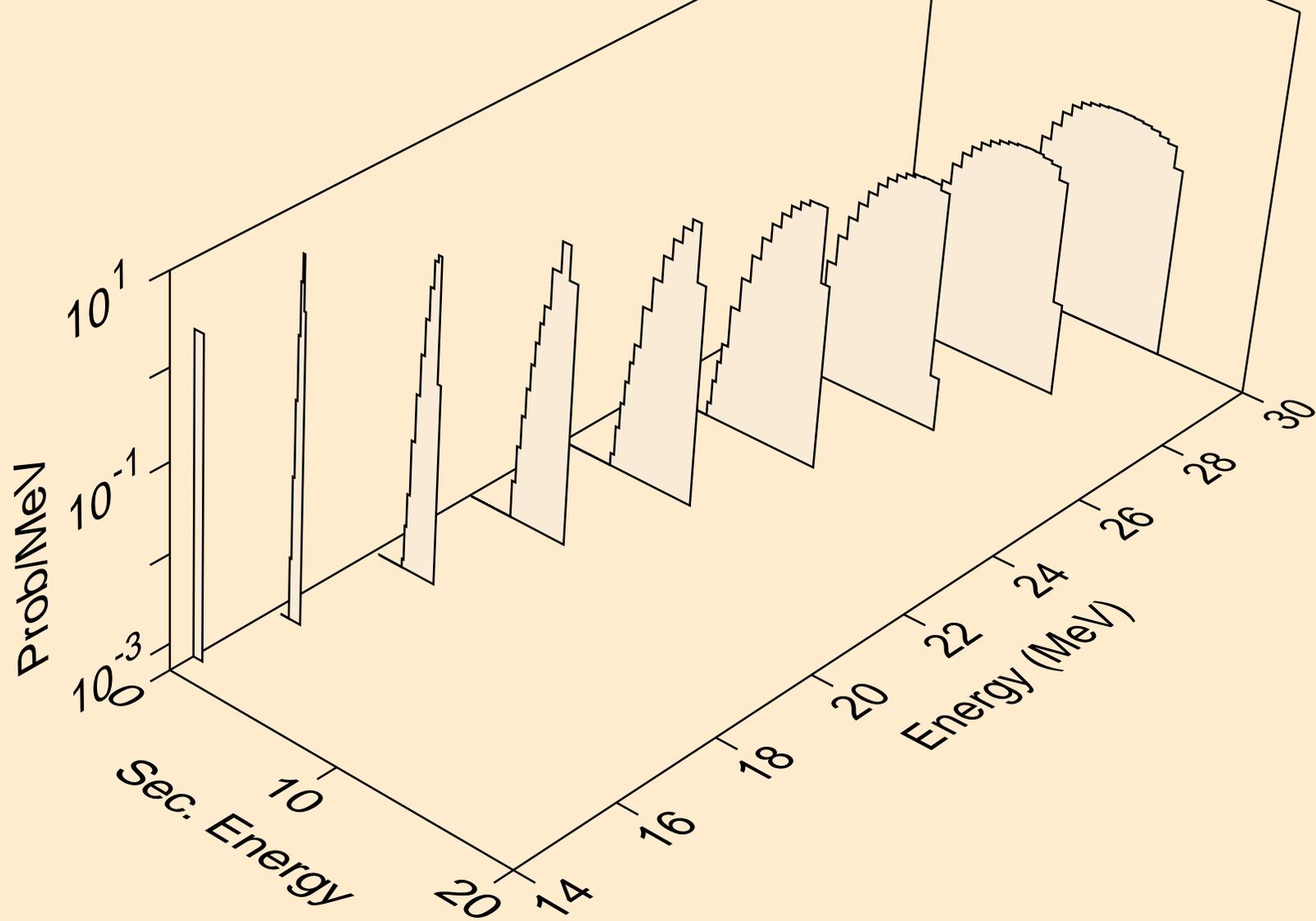neutrons from (a,4n)

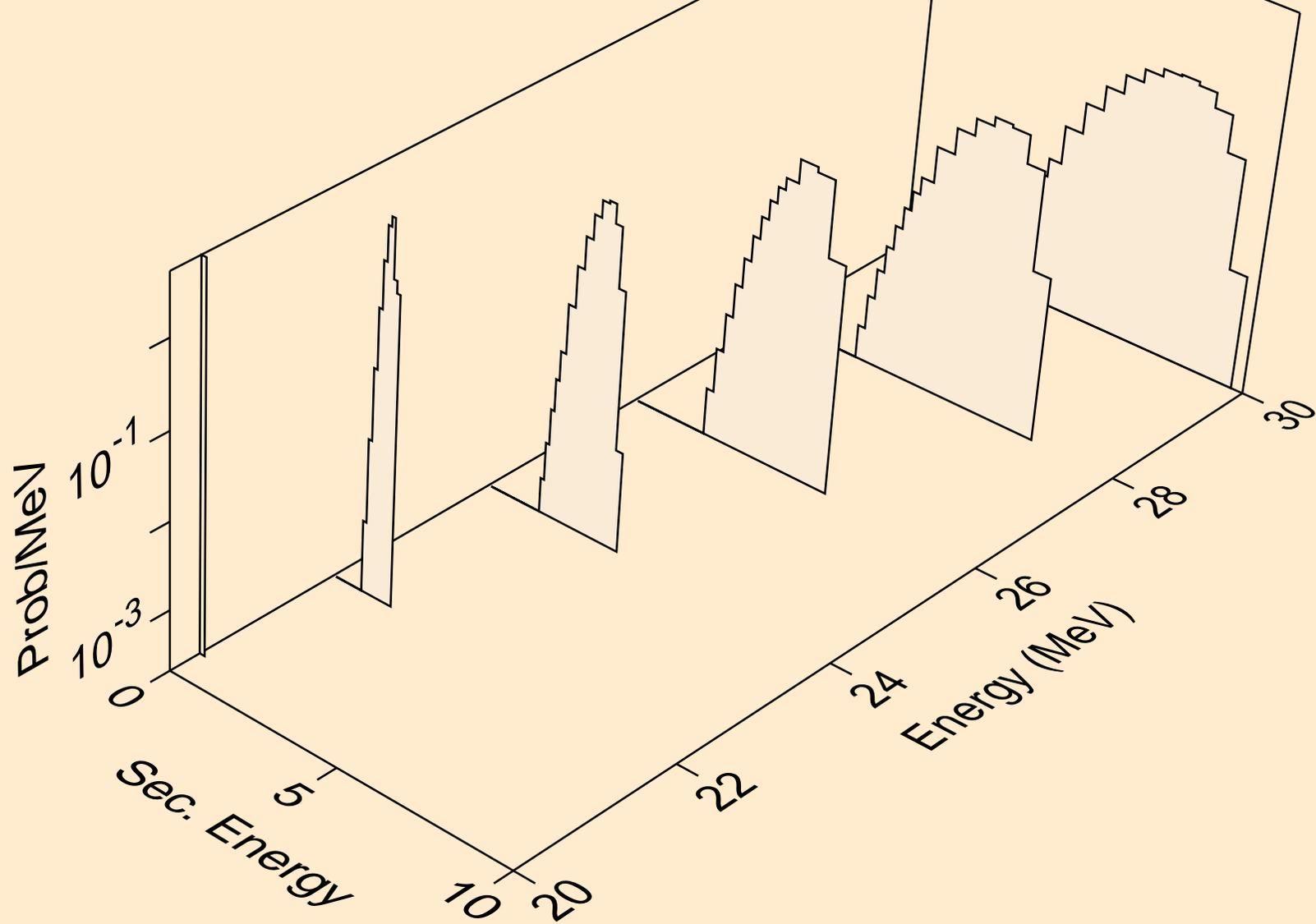SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
neutrons from (a,2np)

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
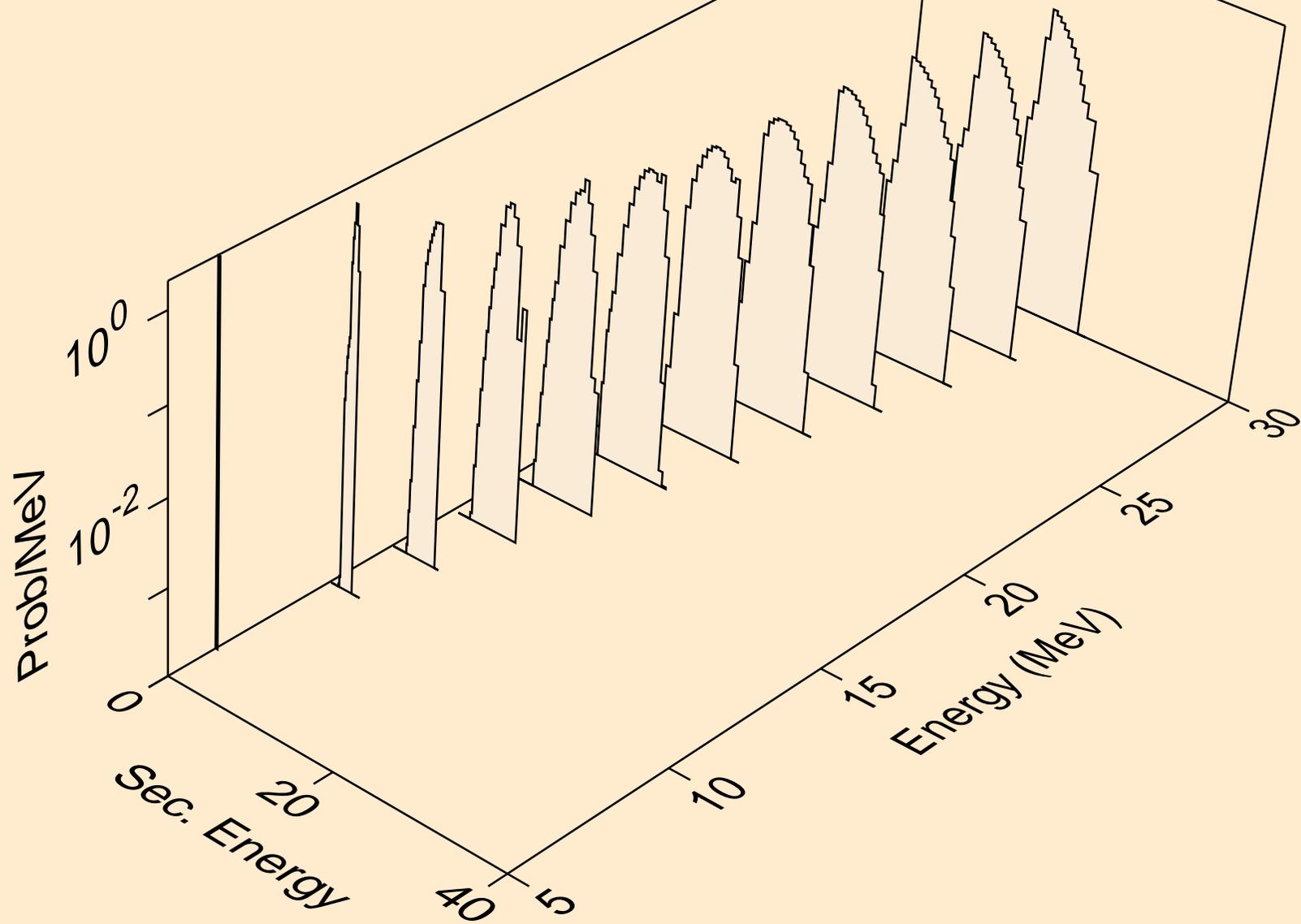protons from (a,x)

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
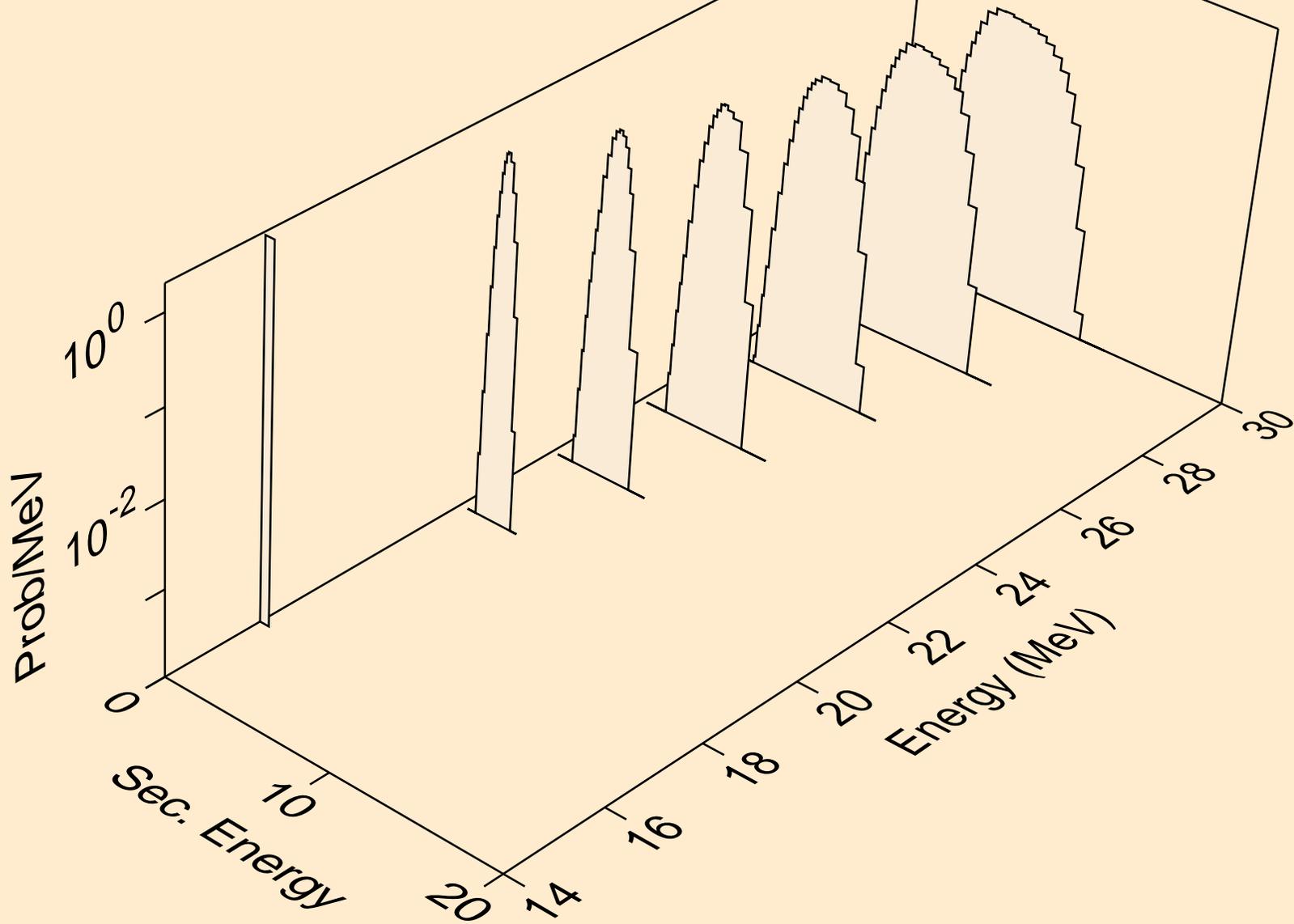protons from (a,n*)p

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
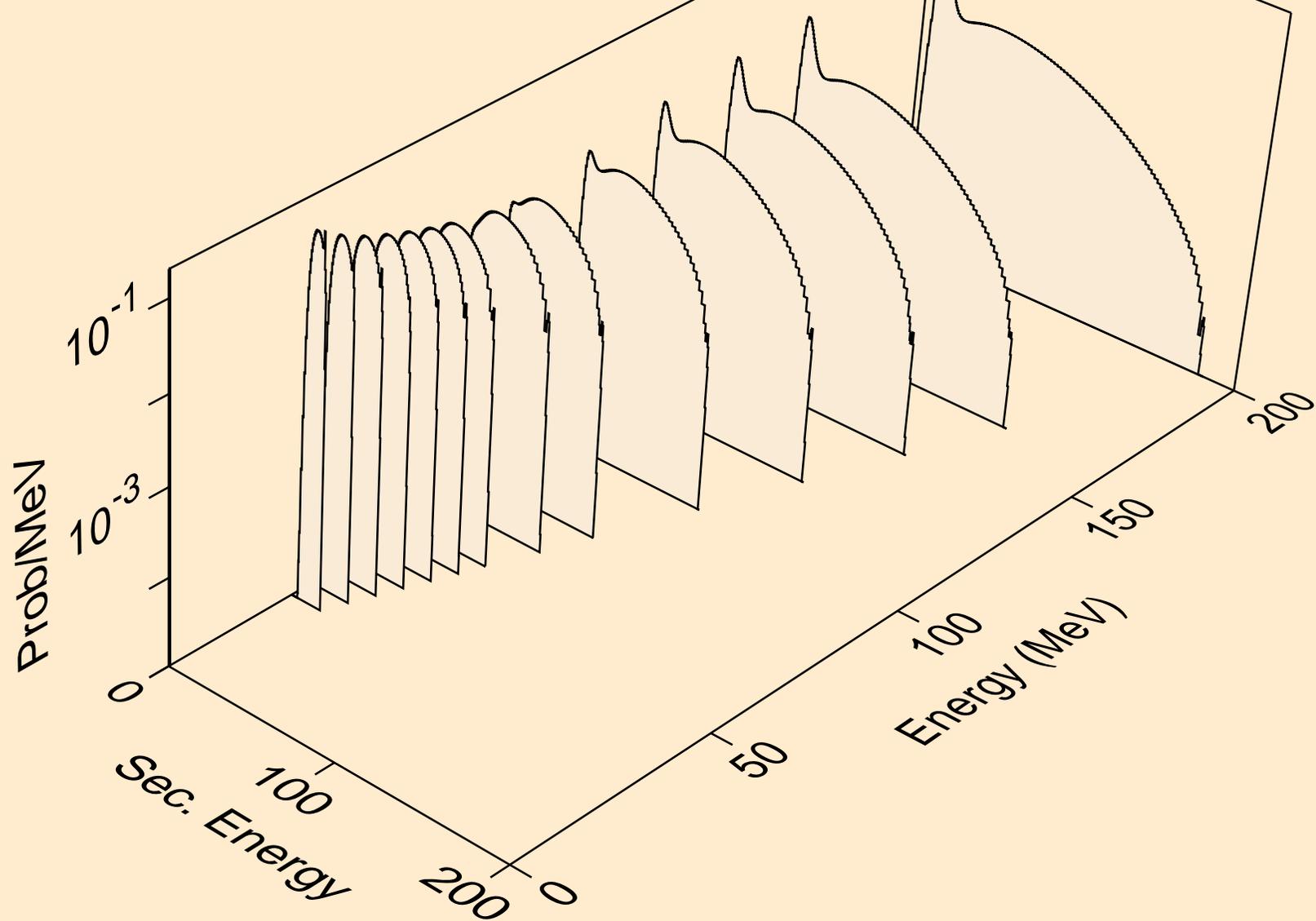protons from (a,2np)

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
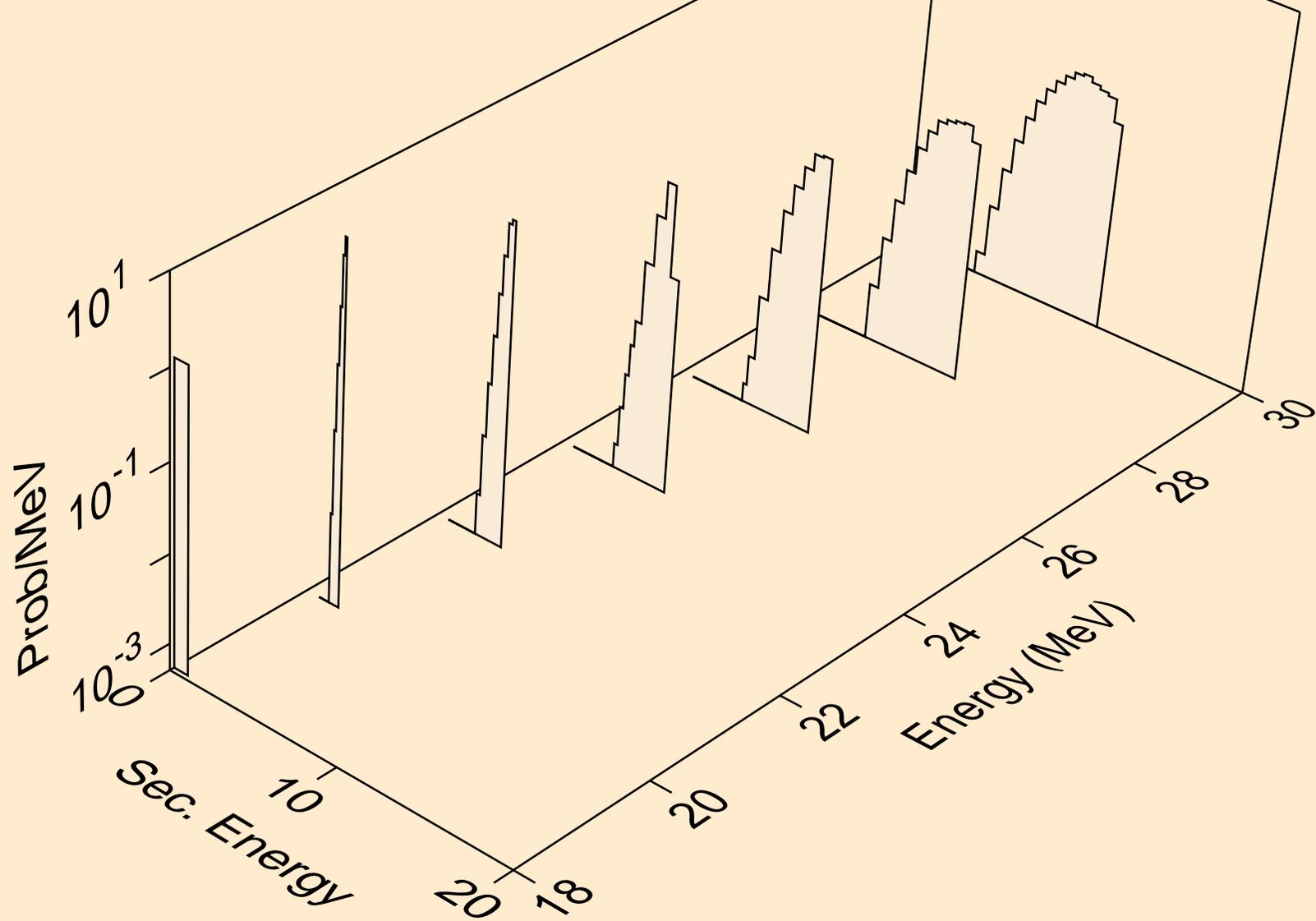protons from (a,p)

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
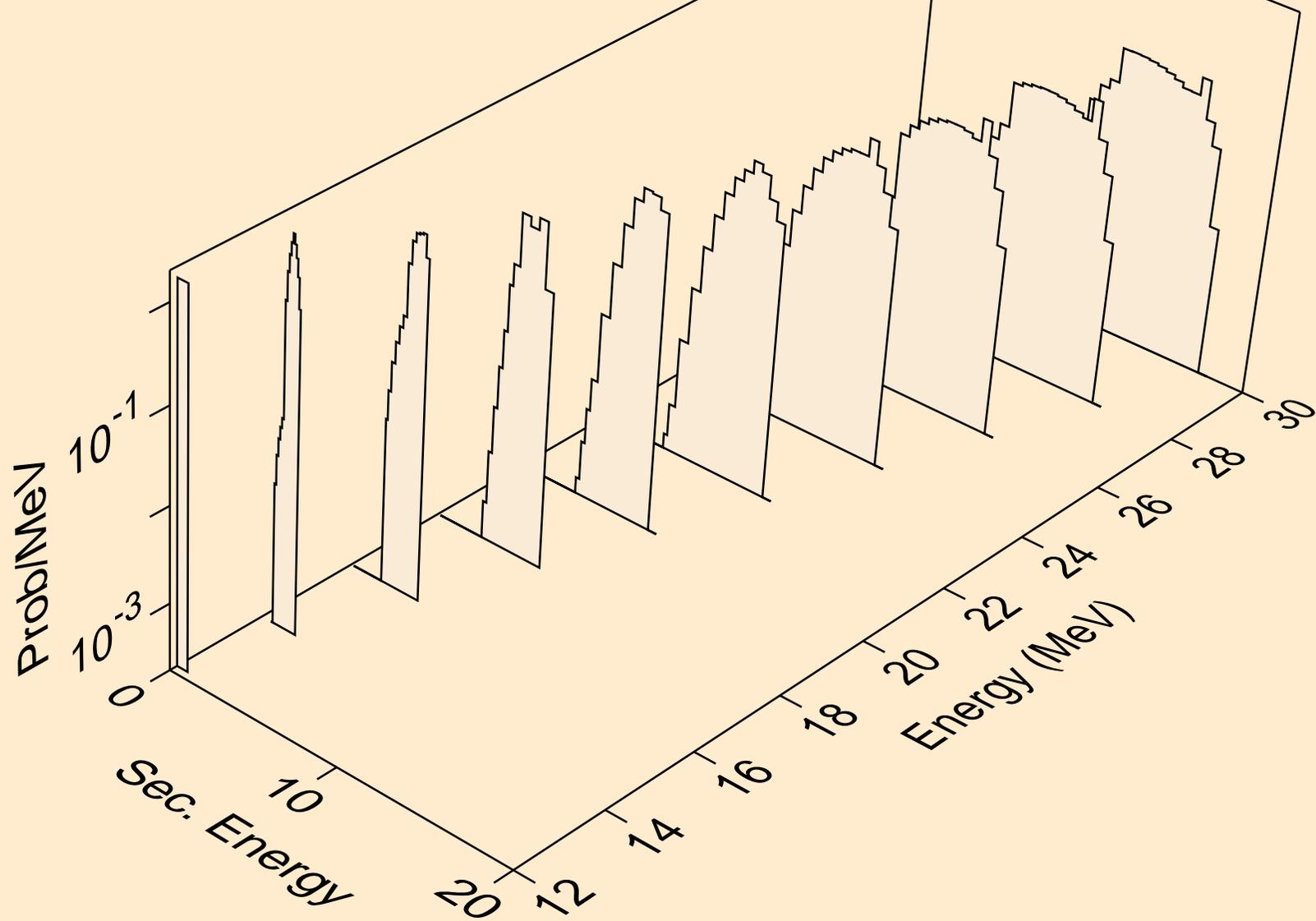protons from (a,2p)

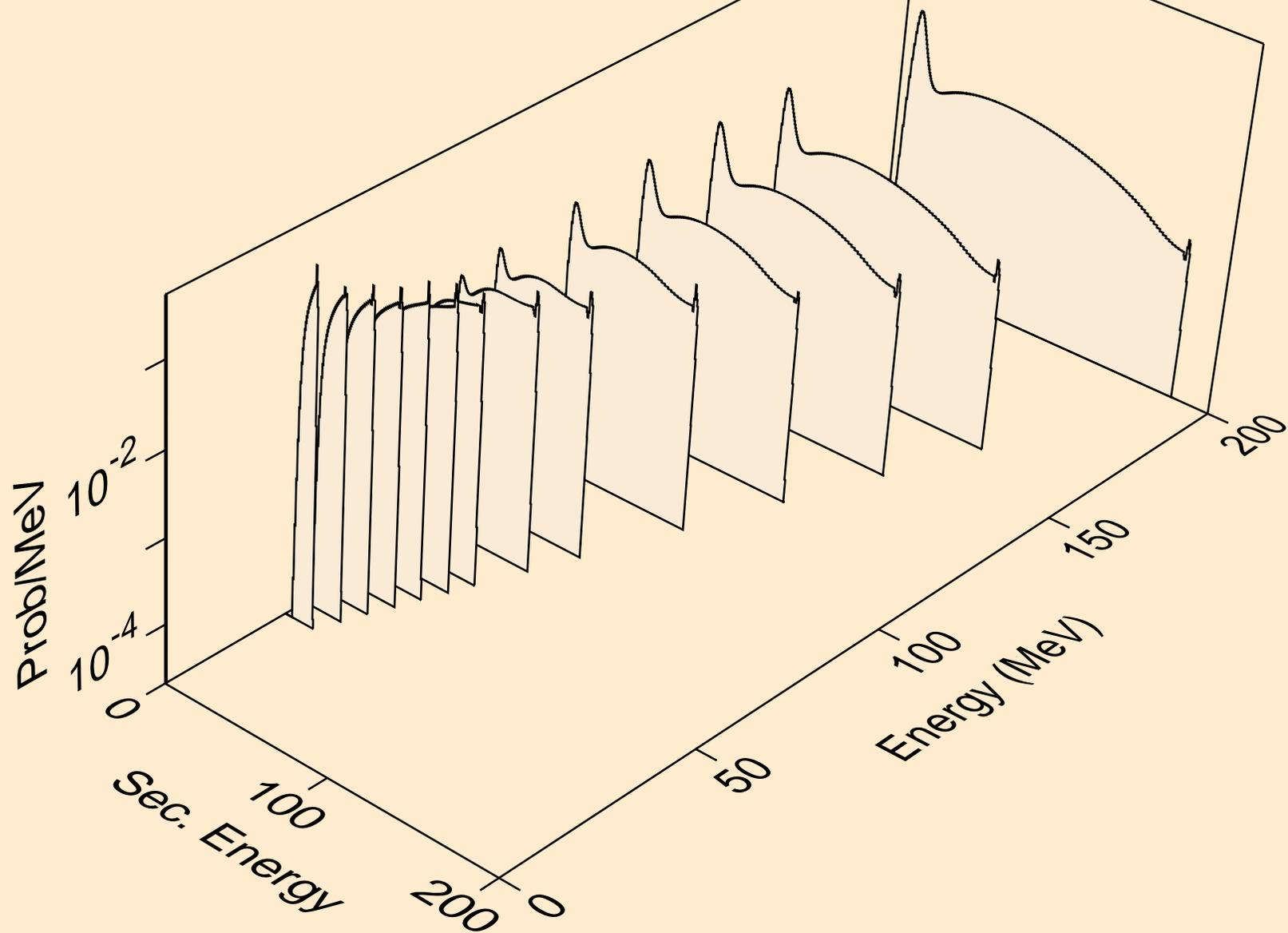SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
deuterons from (a,x)

Prob/MeV

10^{-1}

10^{-3}

0

Sec. Energy

100

200

0

50

100

150

200

Energy (MeV)

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
deuterons from (a,n*)d

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
deuterons from (a,d)

Prob/MeV

10^{-1}

10^{-3}

0

10

20

Sec. Energy

12

14

16

18
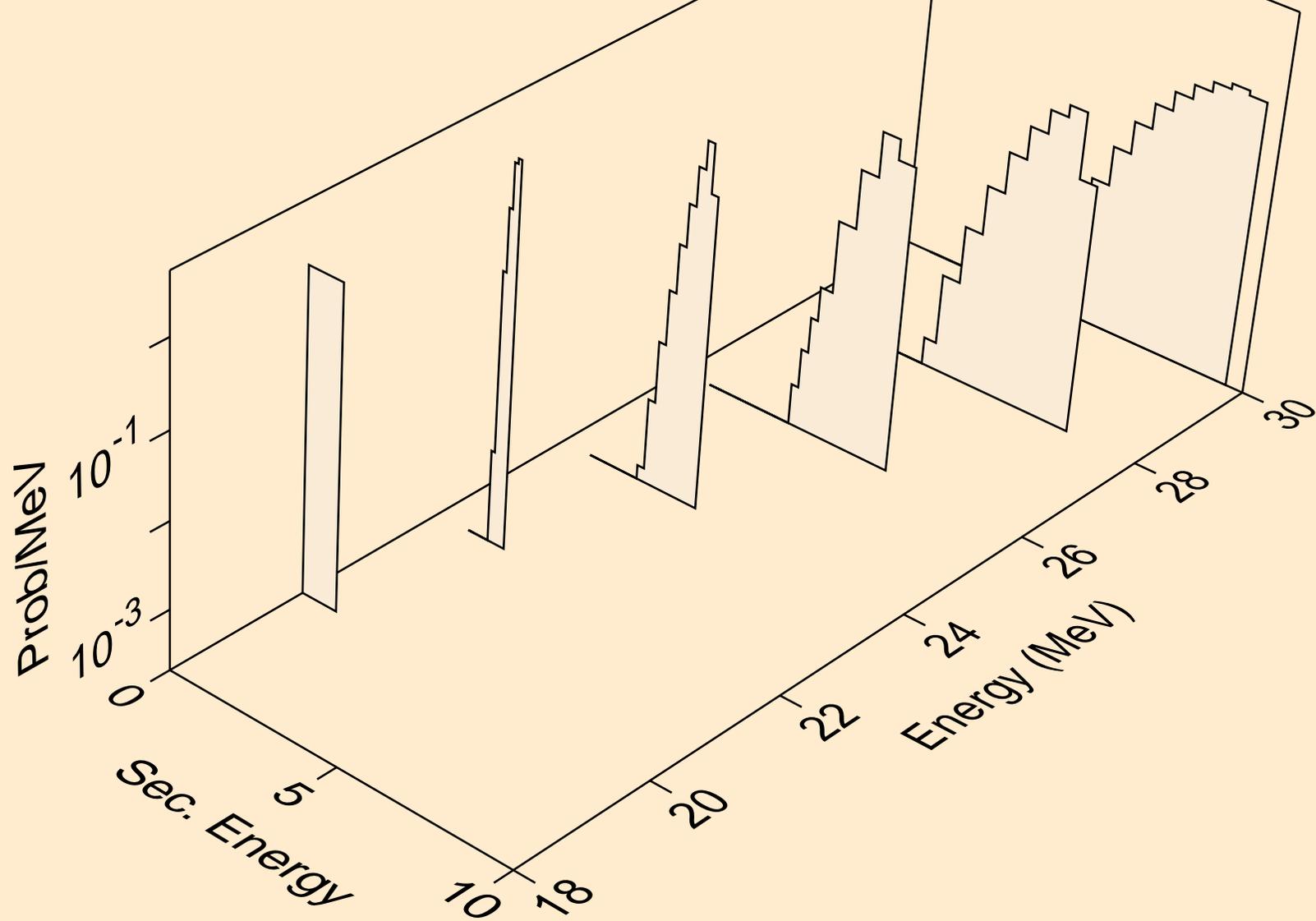
20
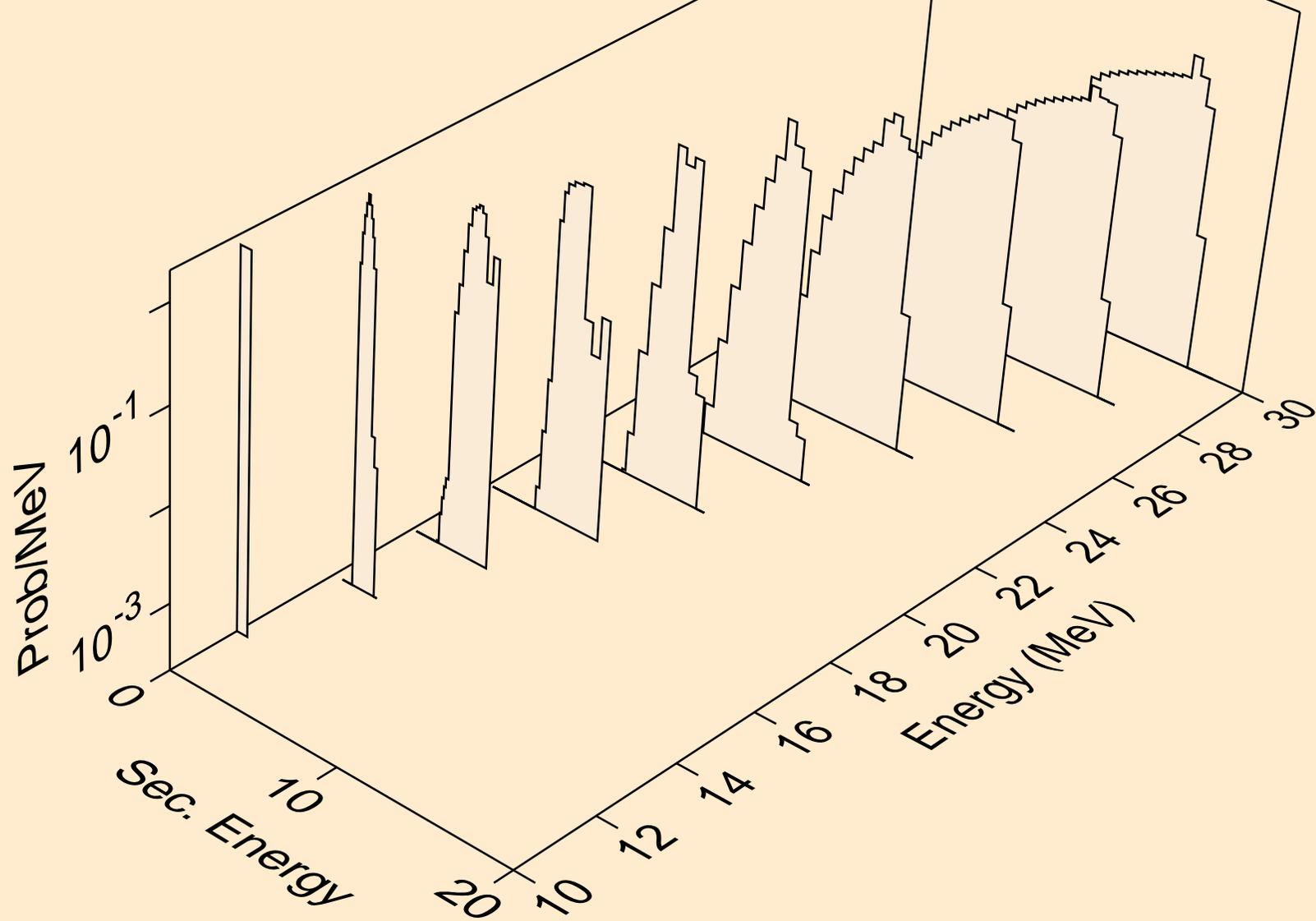
22

24

26

28

30

Energy (MeV)

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
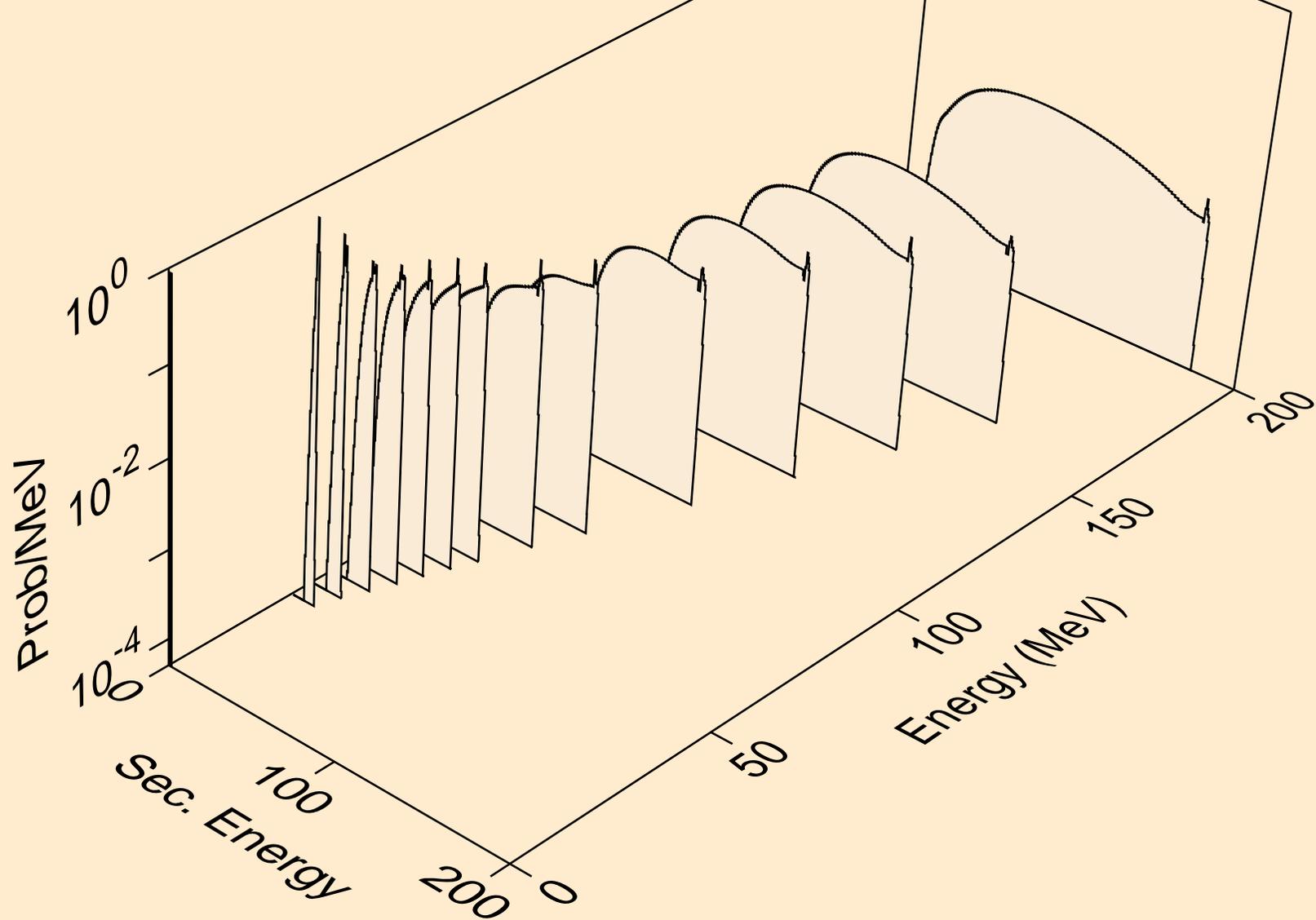tritons from (a,x)

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
tritons from (a,n*)t

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
tritons from (a,t)

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
he3s from (a,x)

SN128 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
he3s from (a,he3)