PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Principal cross sections

- total
- absorption
- elastic
- gamma production

Cross section (barns)

Energy (MeV)

PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Heating

PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Principal cross sections

Cross section (barns)
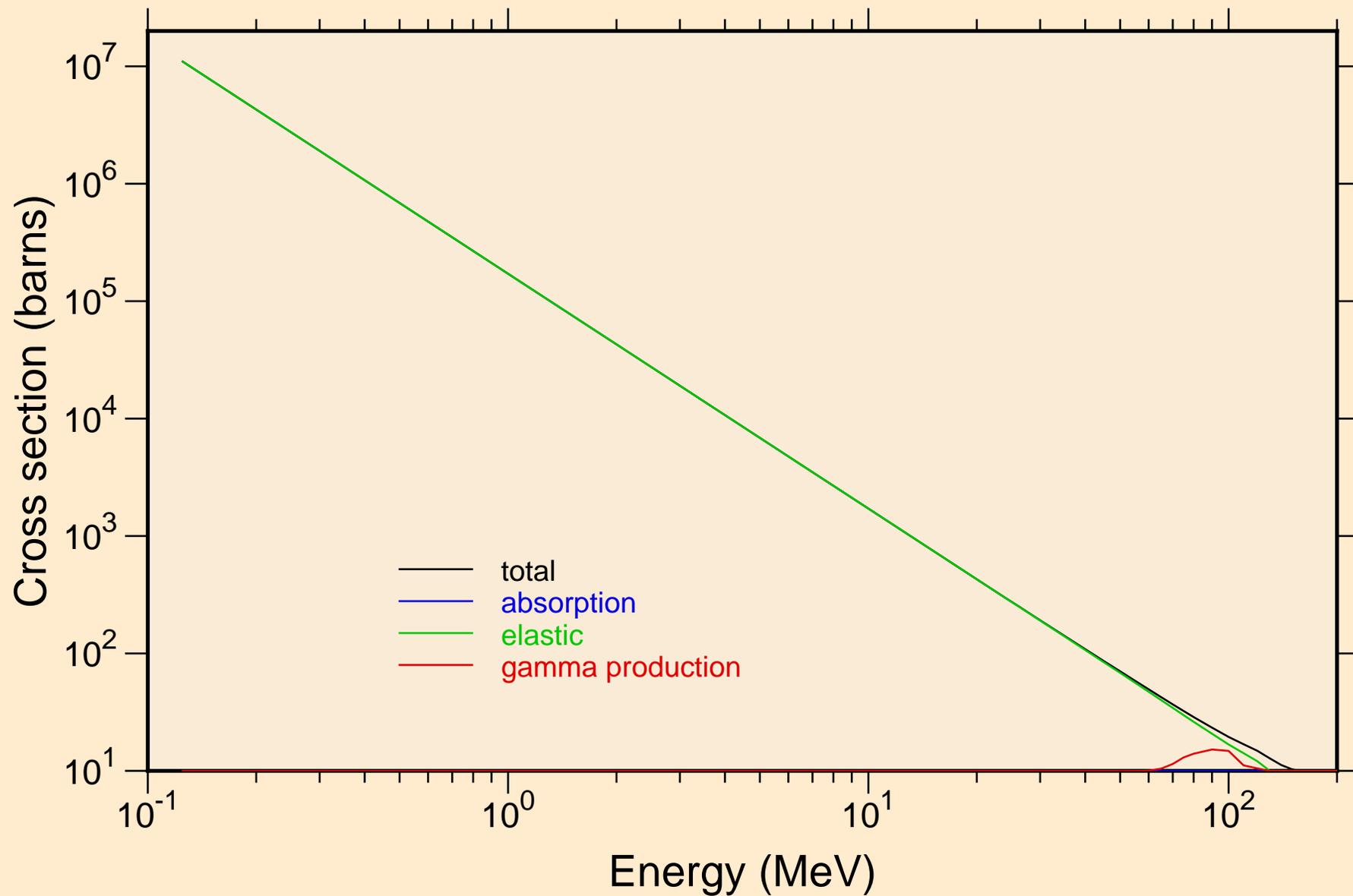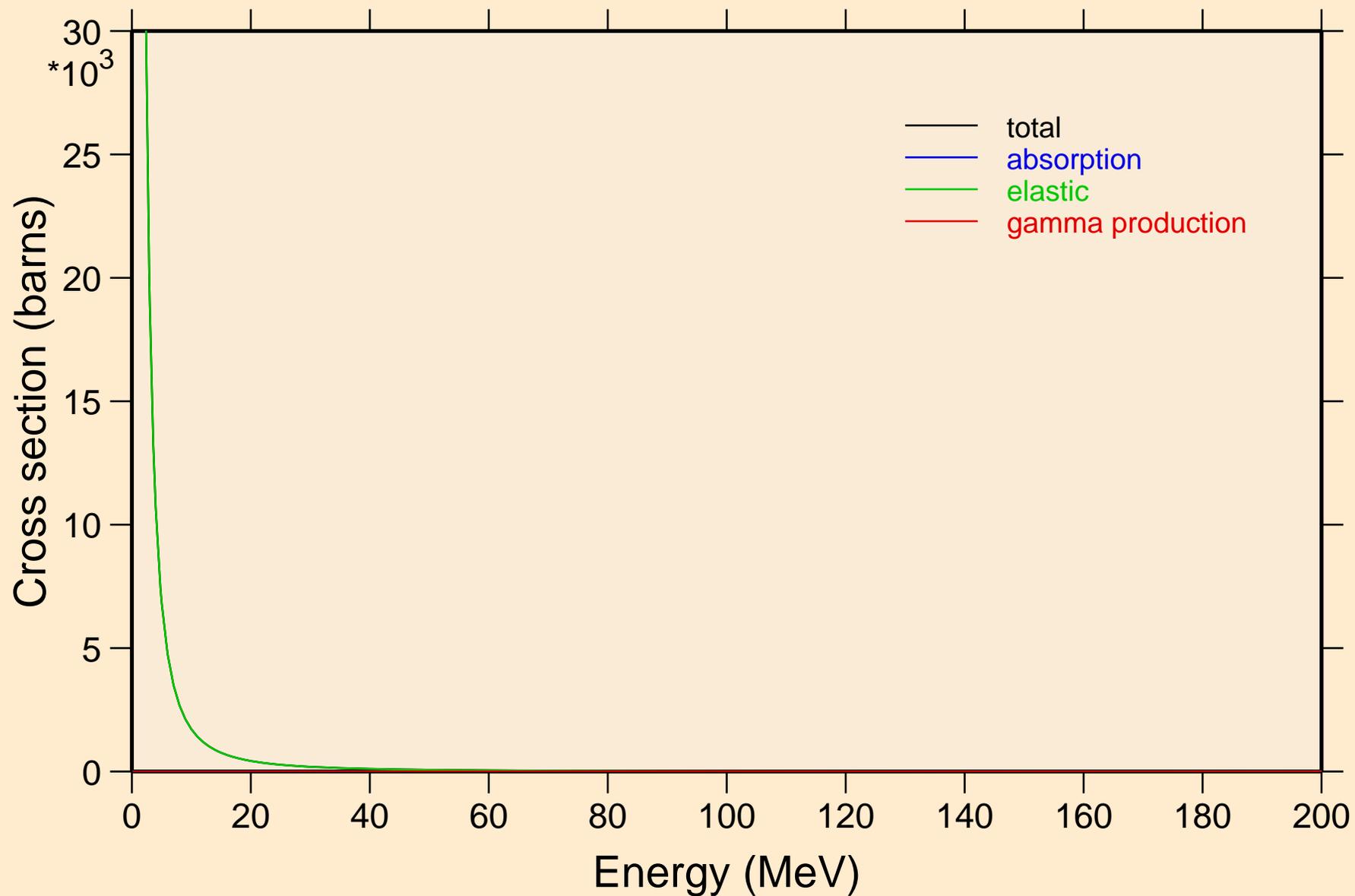
$*10^3$

— total
— absorption
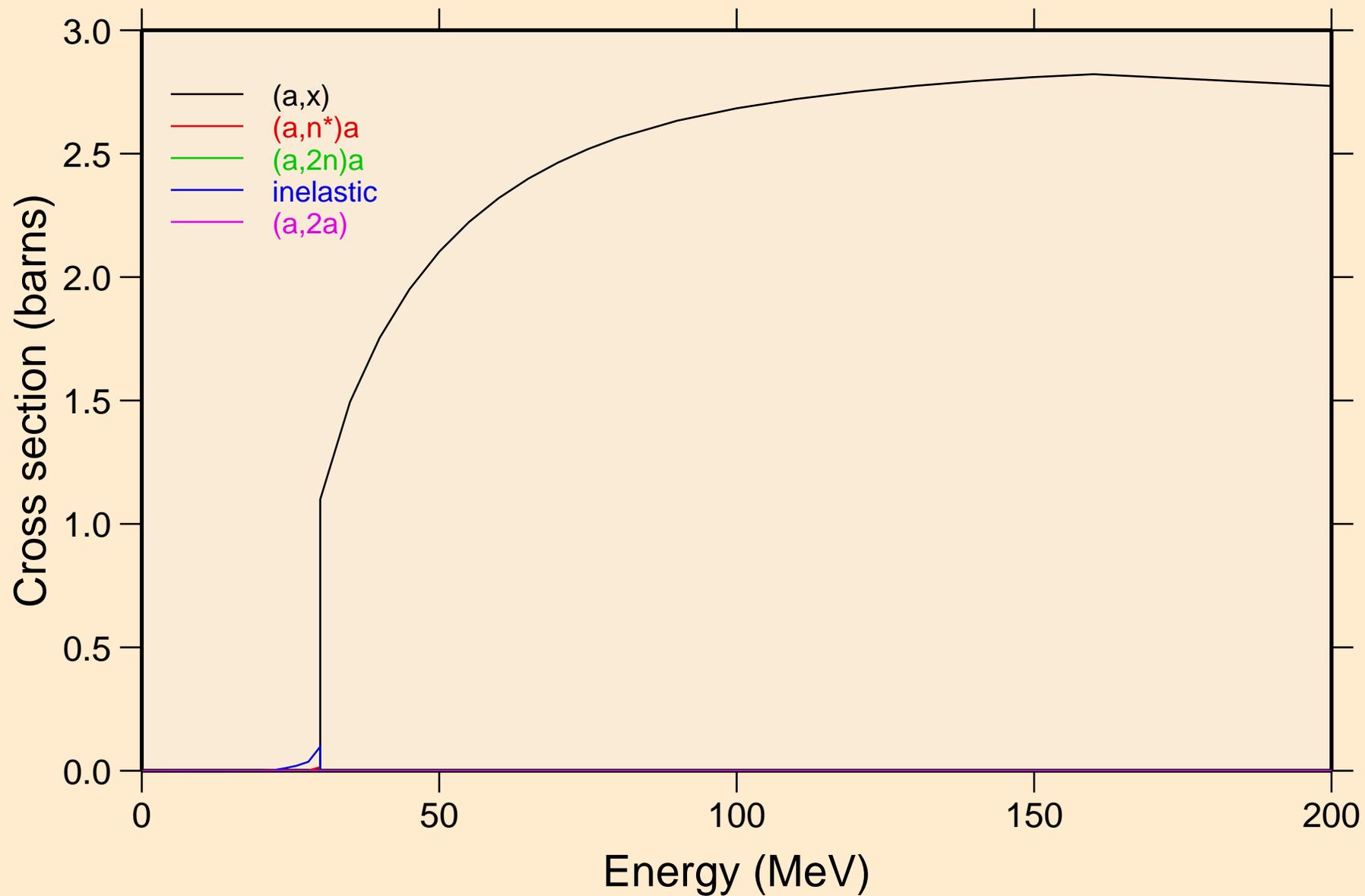— elastic
— gamma production

Energy (MeV)

PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Heating

PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions

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

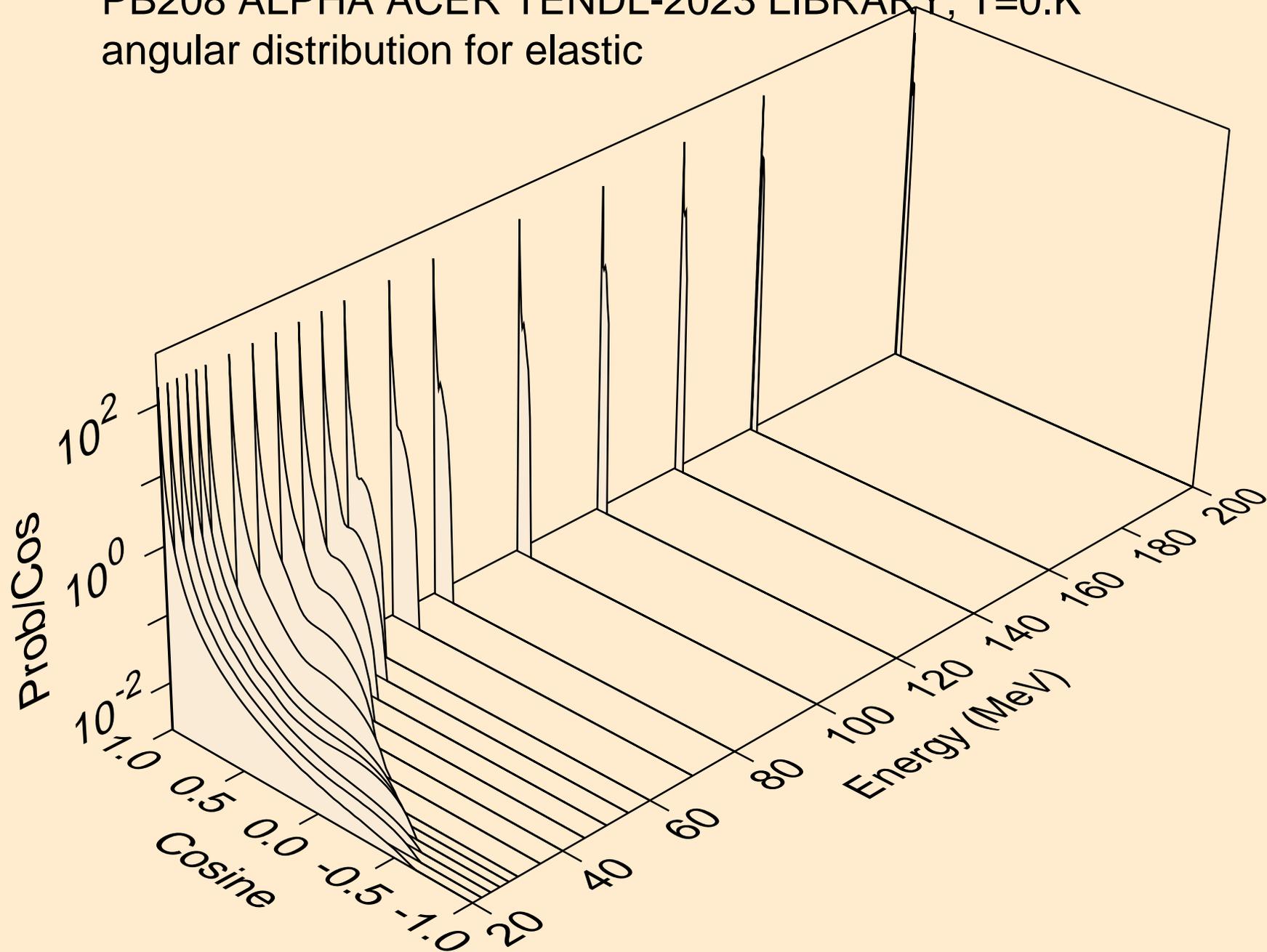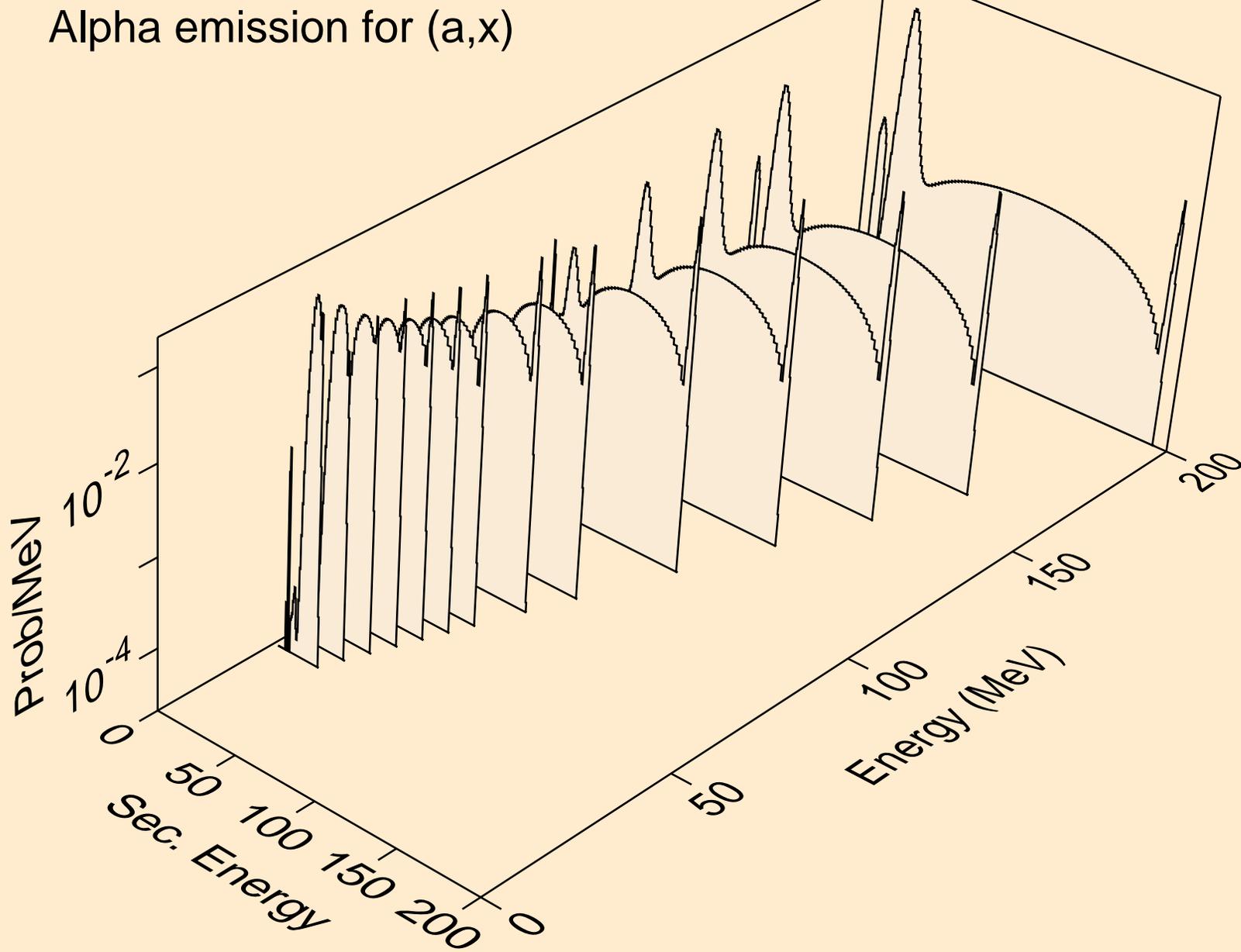X-axis: Energy (MeV)
Y-axis: Cross section (barns)

PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
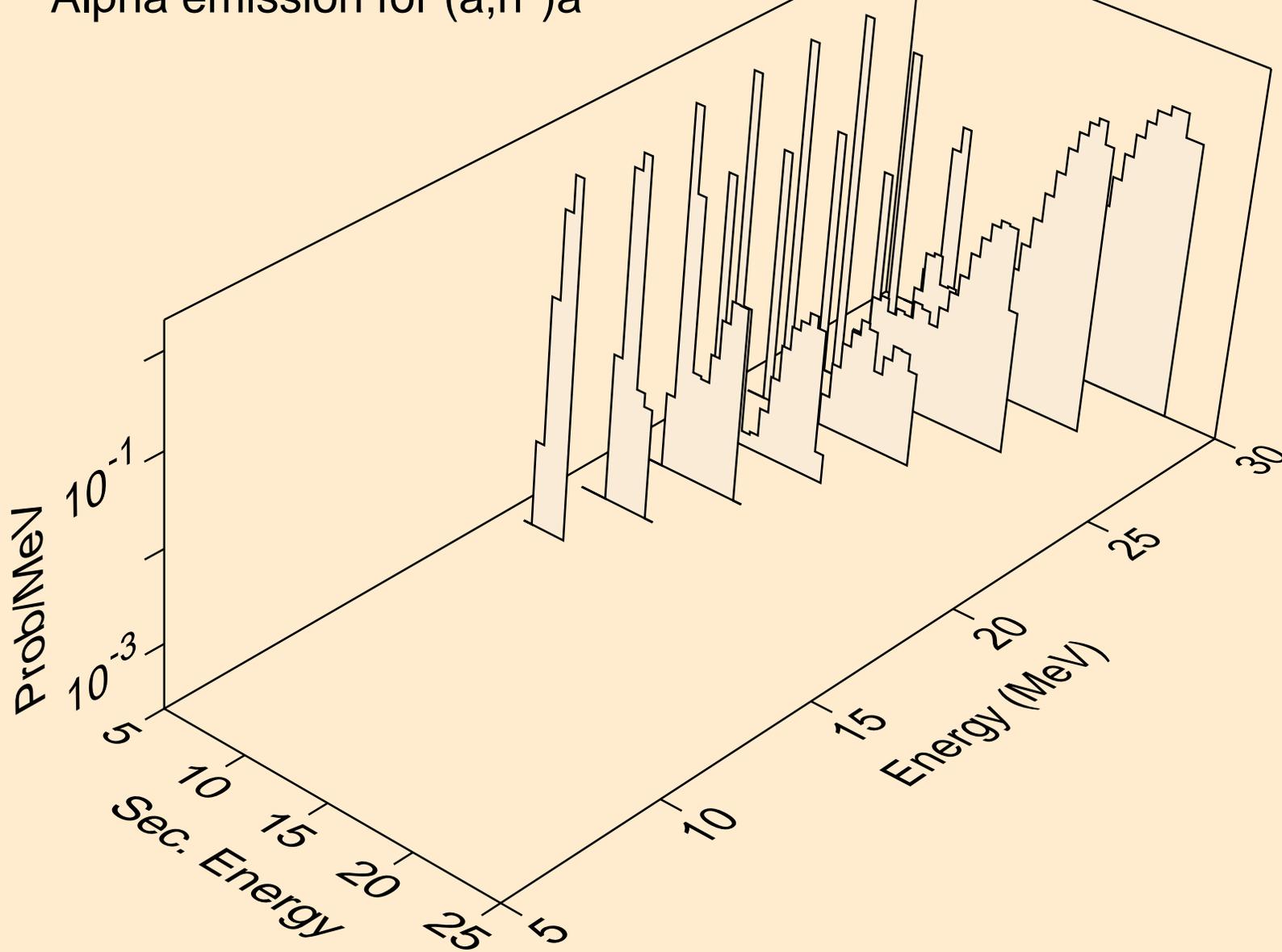angular distribution for elastic
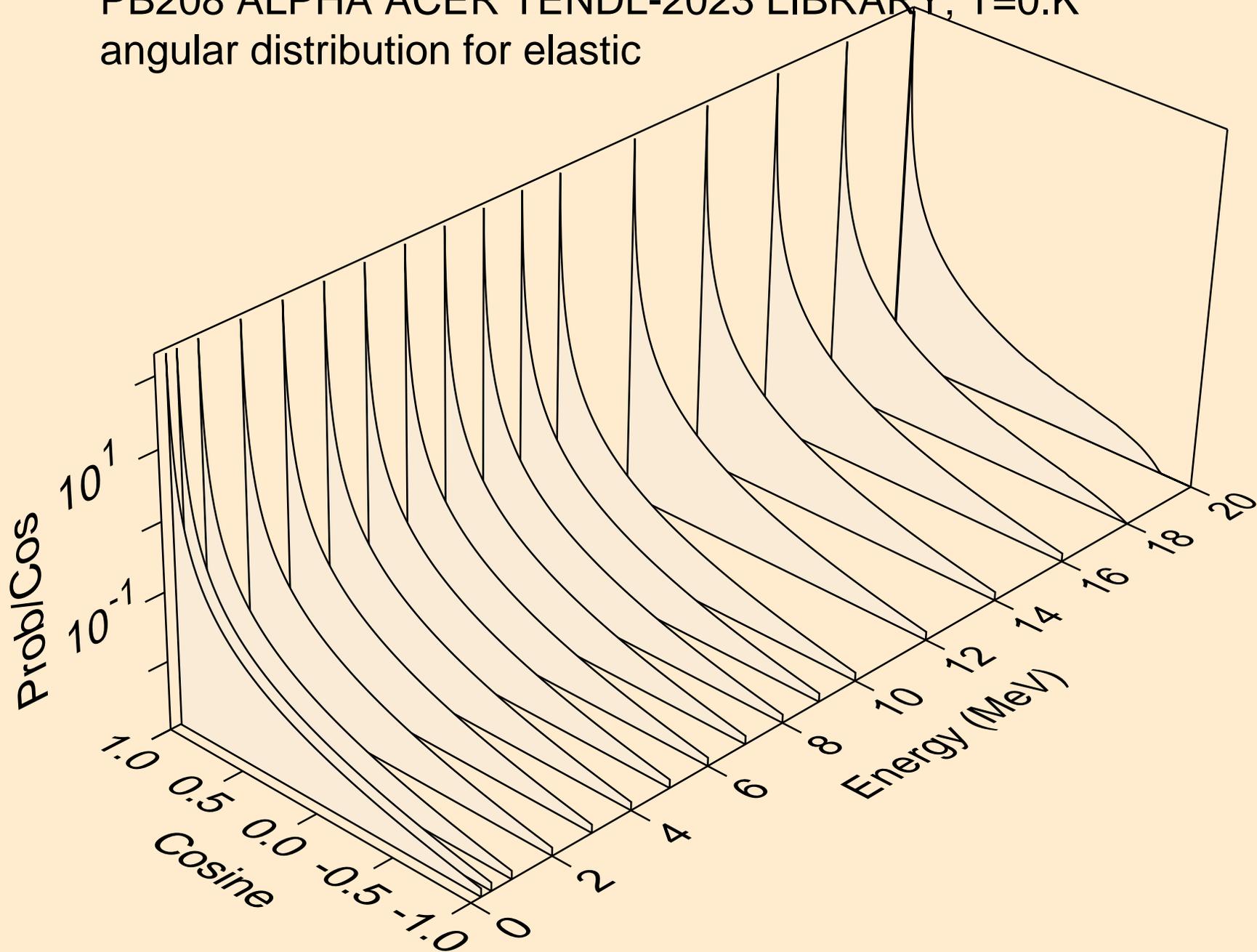
PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for elastic

PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
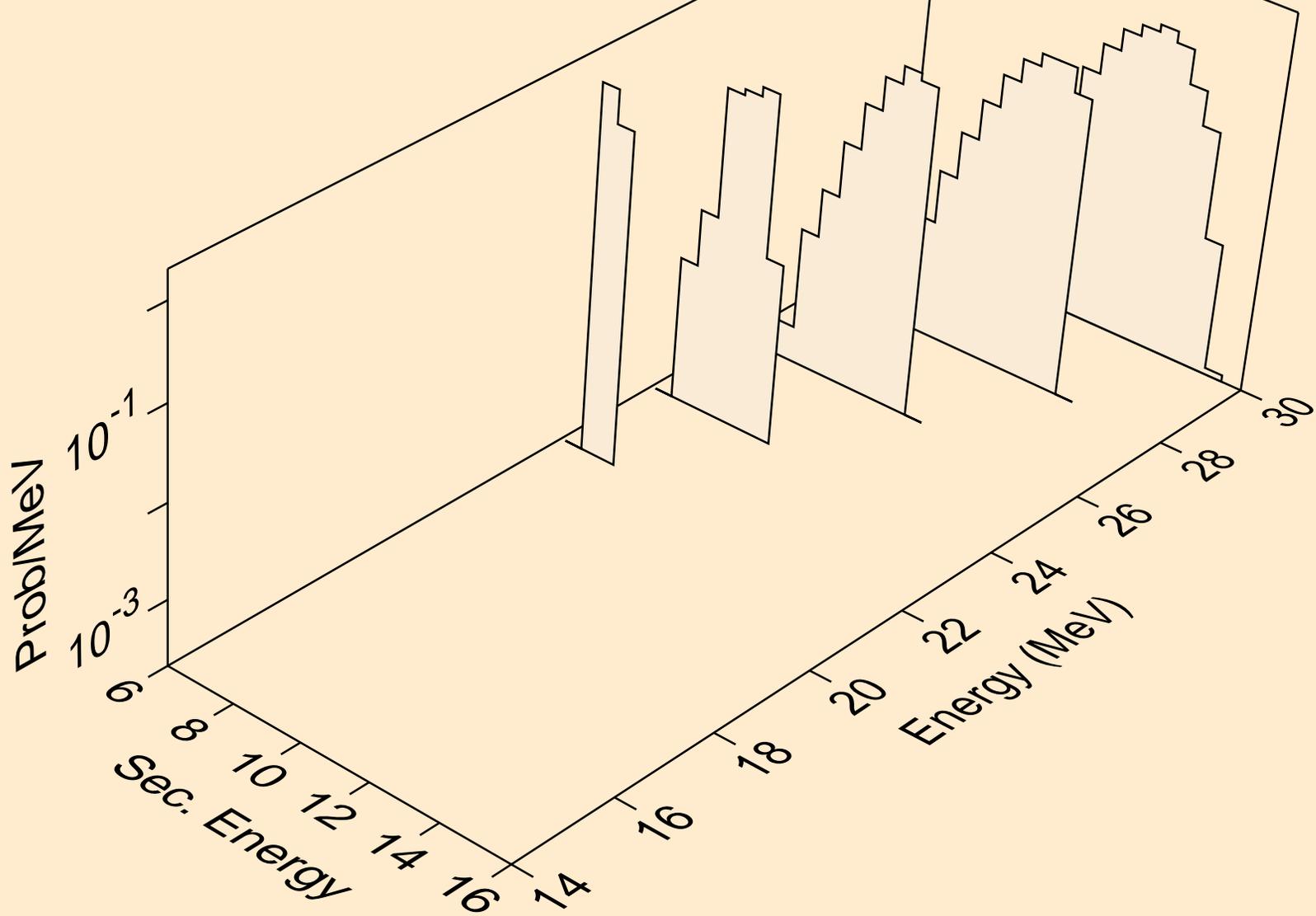Alpha emission for (a,x)

PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
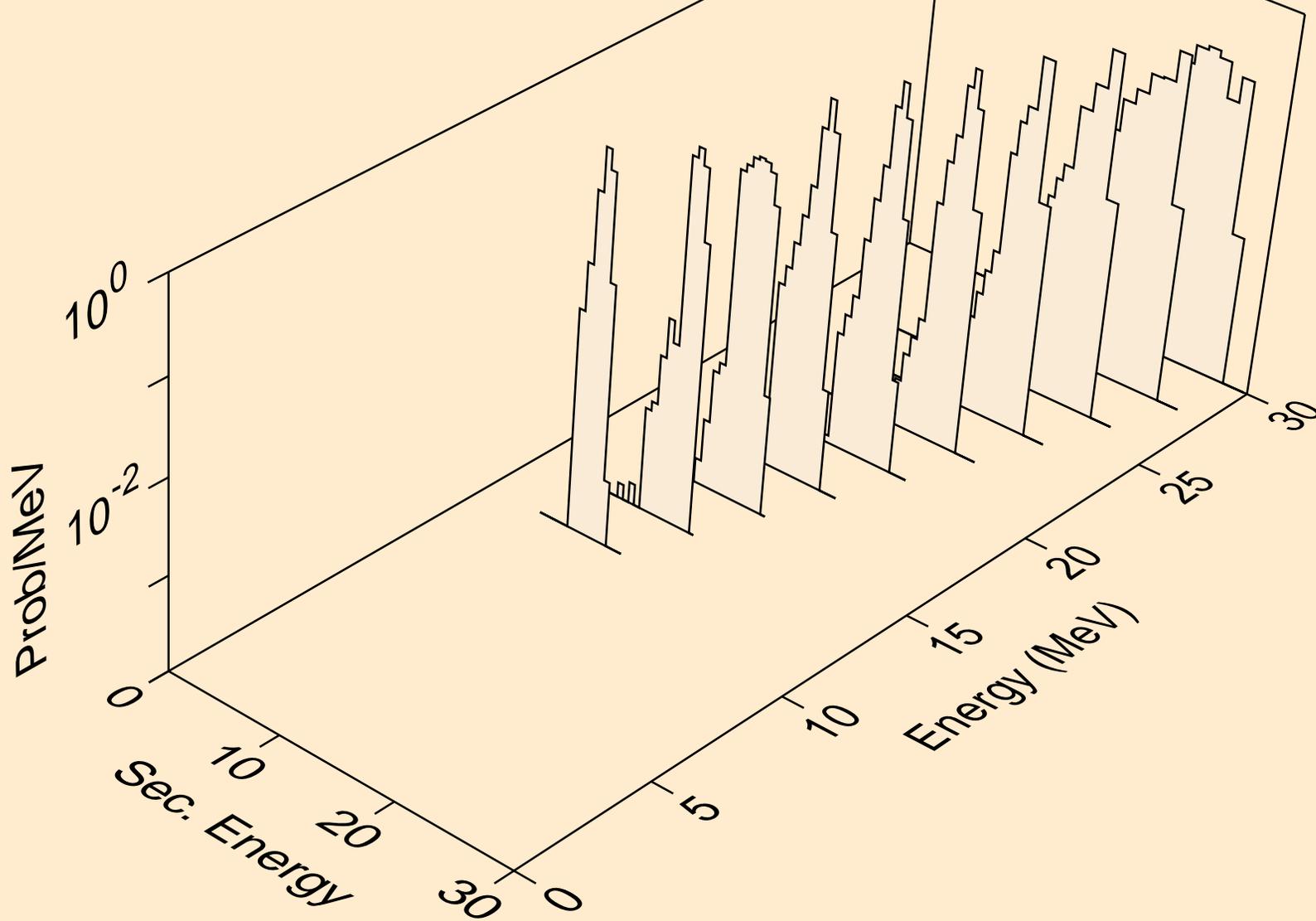Alpha emission for (a,n*)a

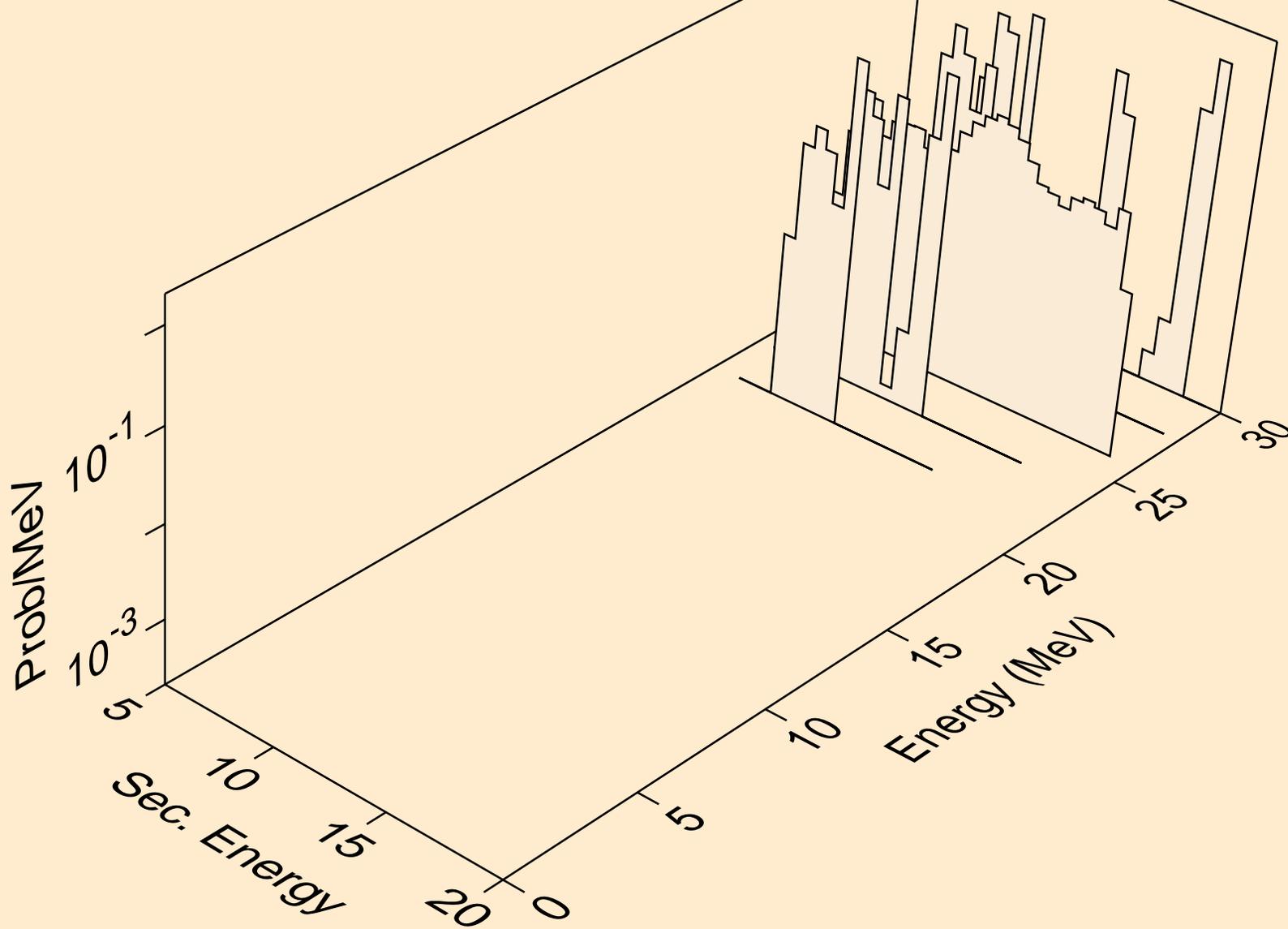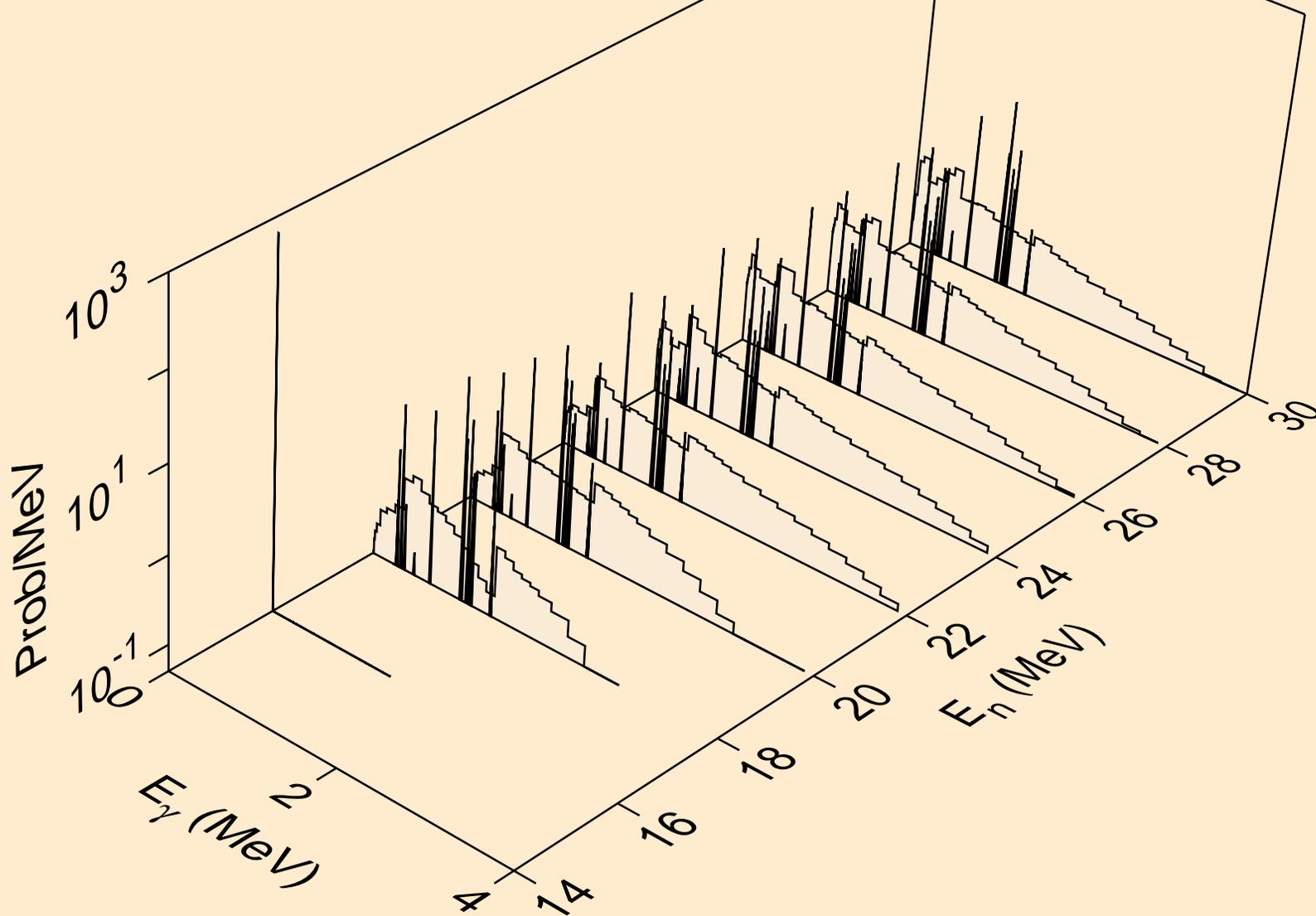PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Alpha emission for (a,2n)a

PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Alpha emission for inelastic

PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
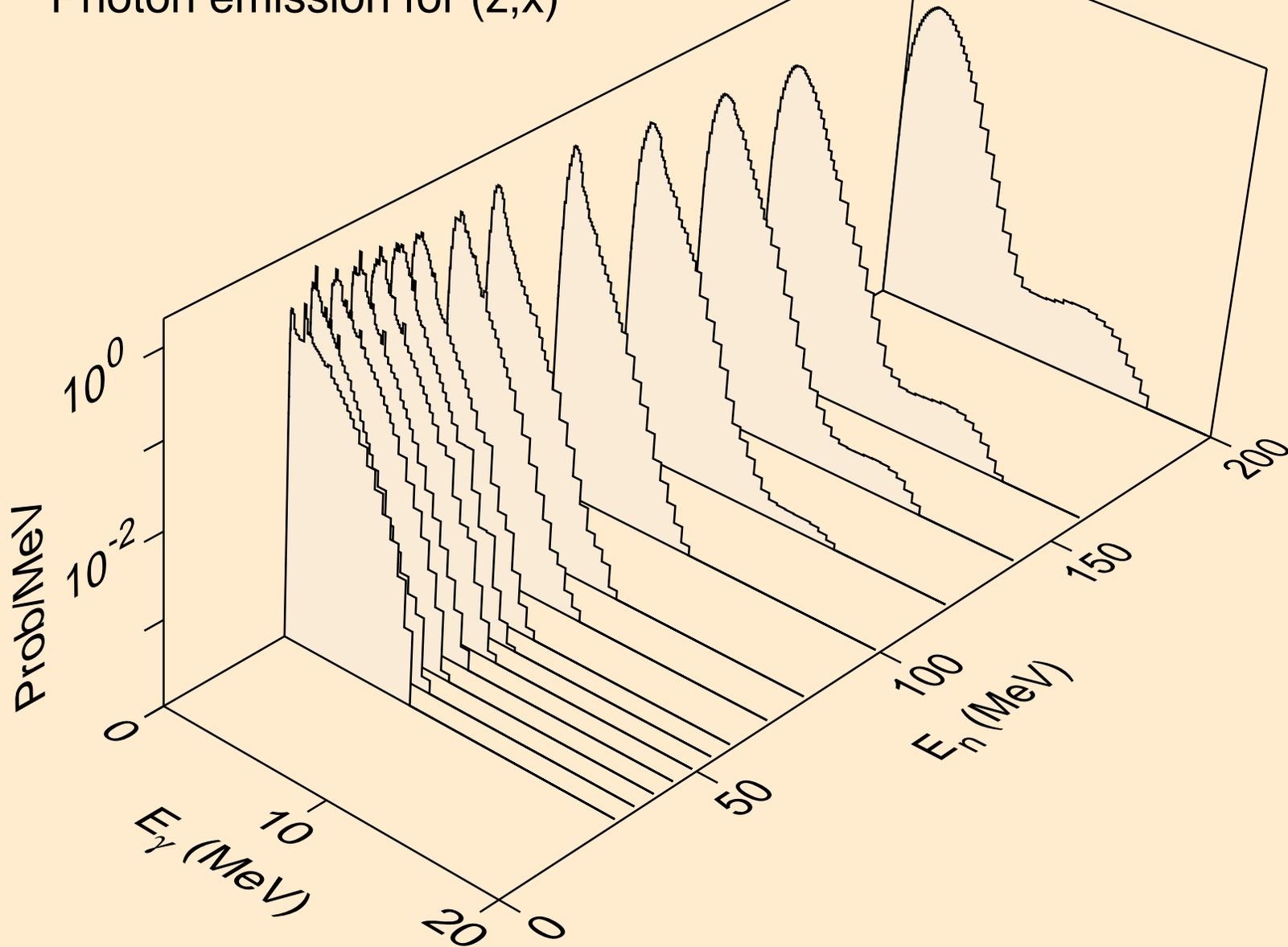Alpha emission for (a,2a)

PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
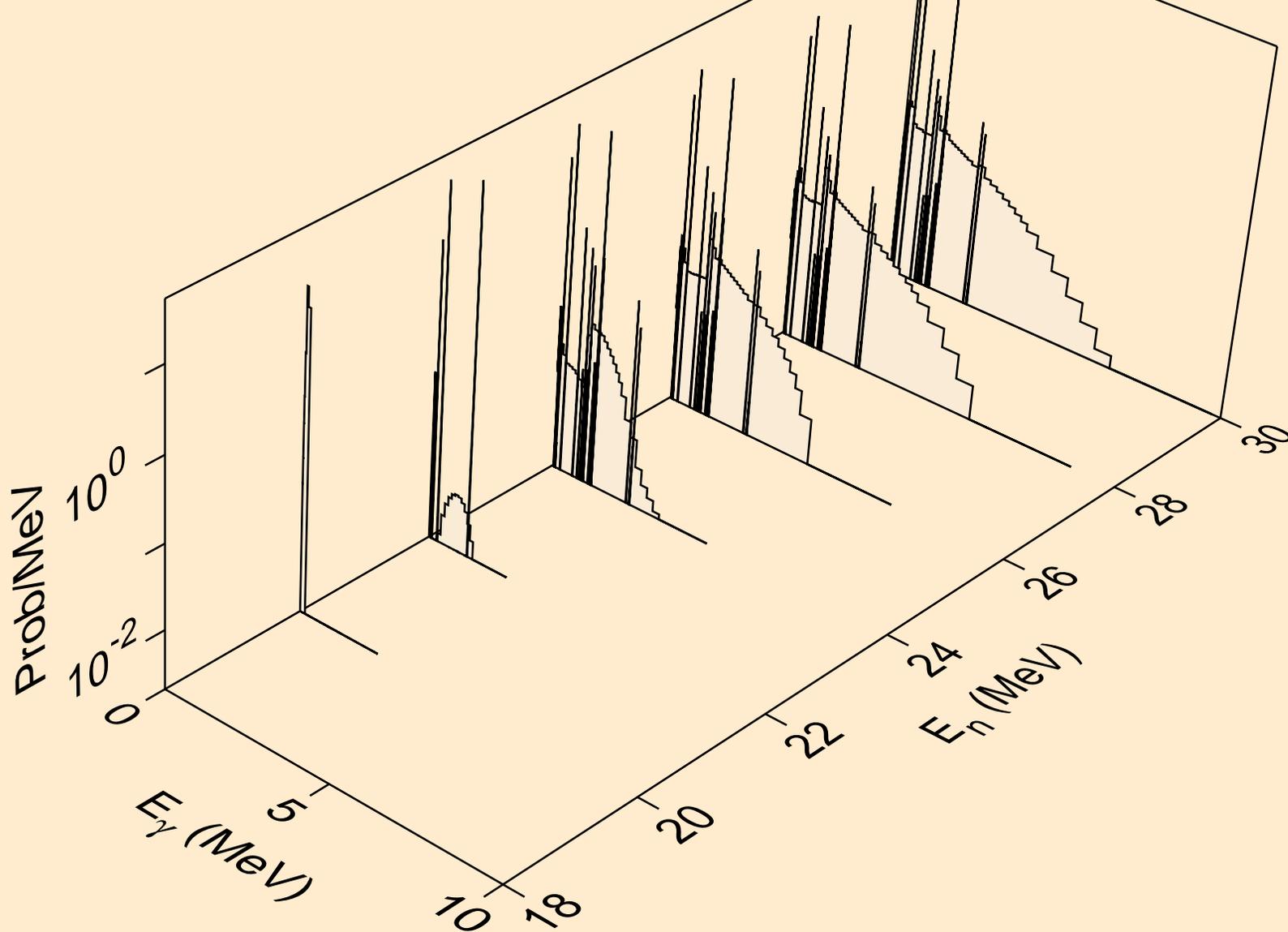Photon emission for (z,n)

ProbMeV

10^3

10^1

10^{-1}

10^0

E_γ (MeV)

2

4

14

16

18

20

22

24

26

28

30

E_n (MeV)

PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (z,x)

$Prob/MeV$

E_γ (MeV)

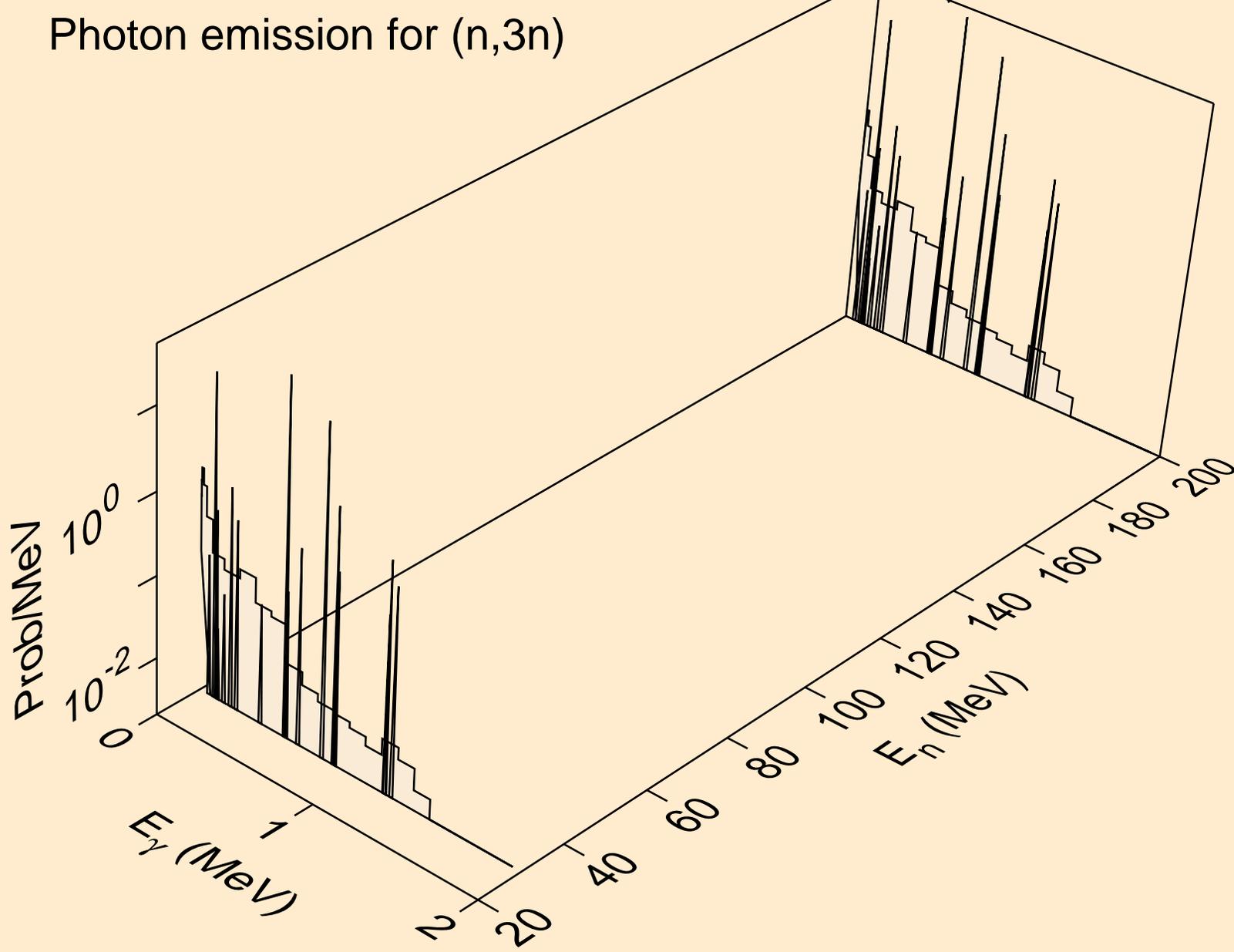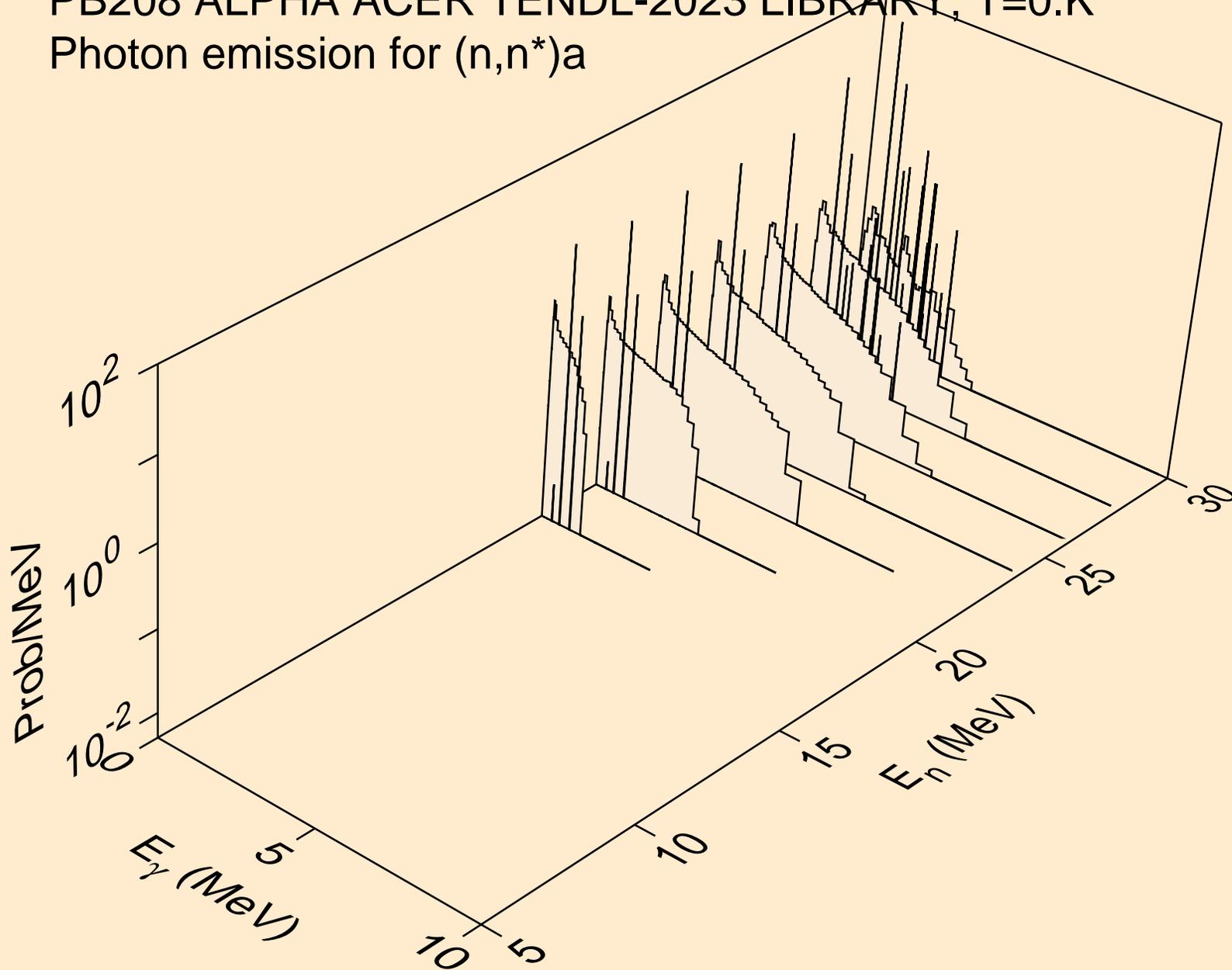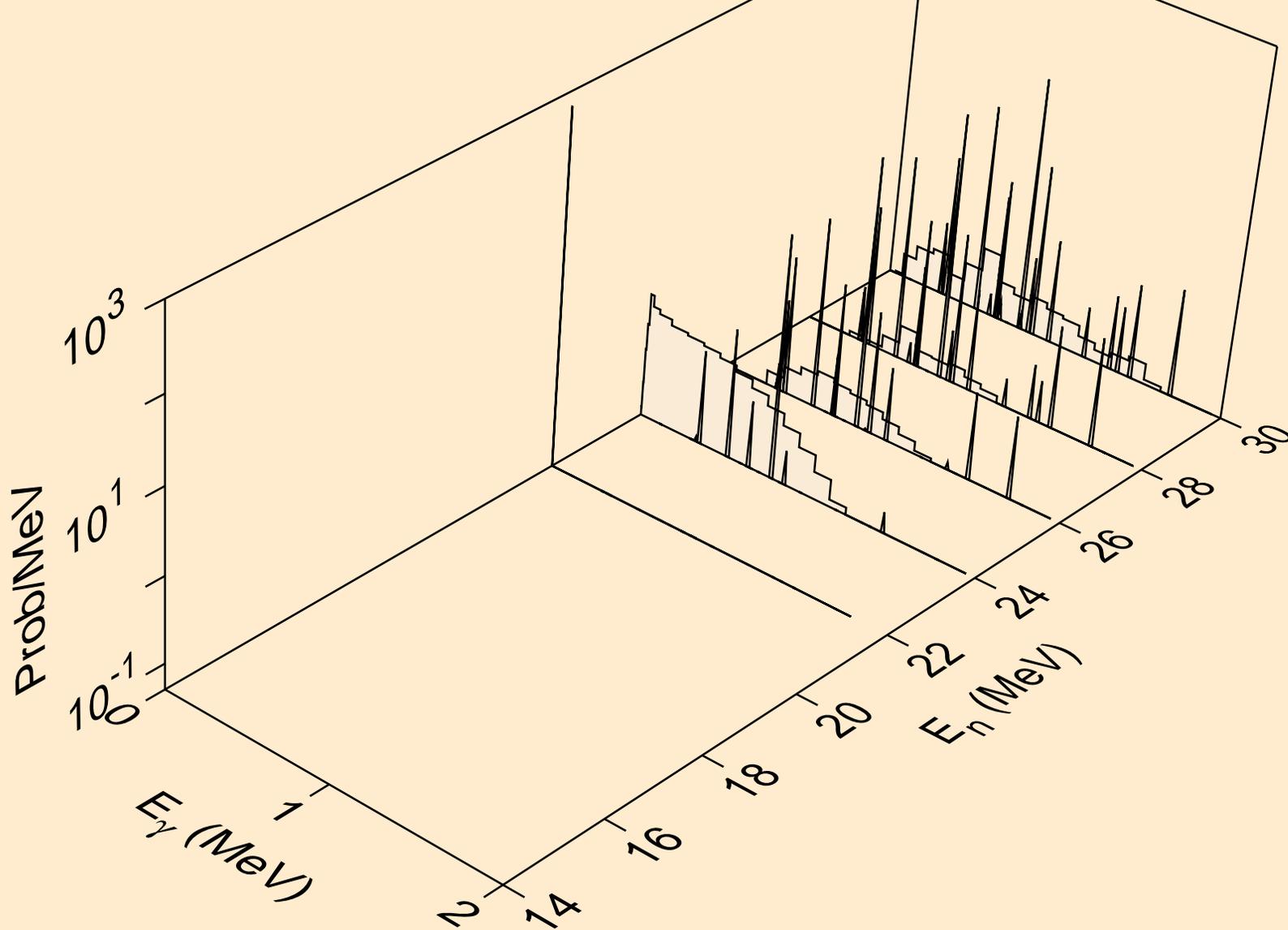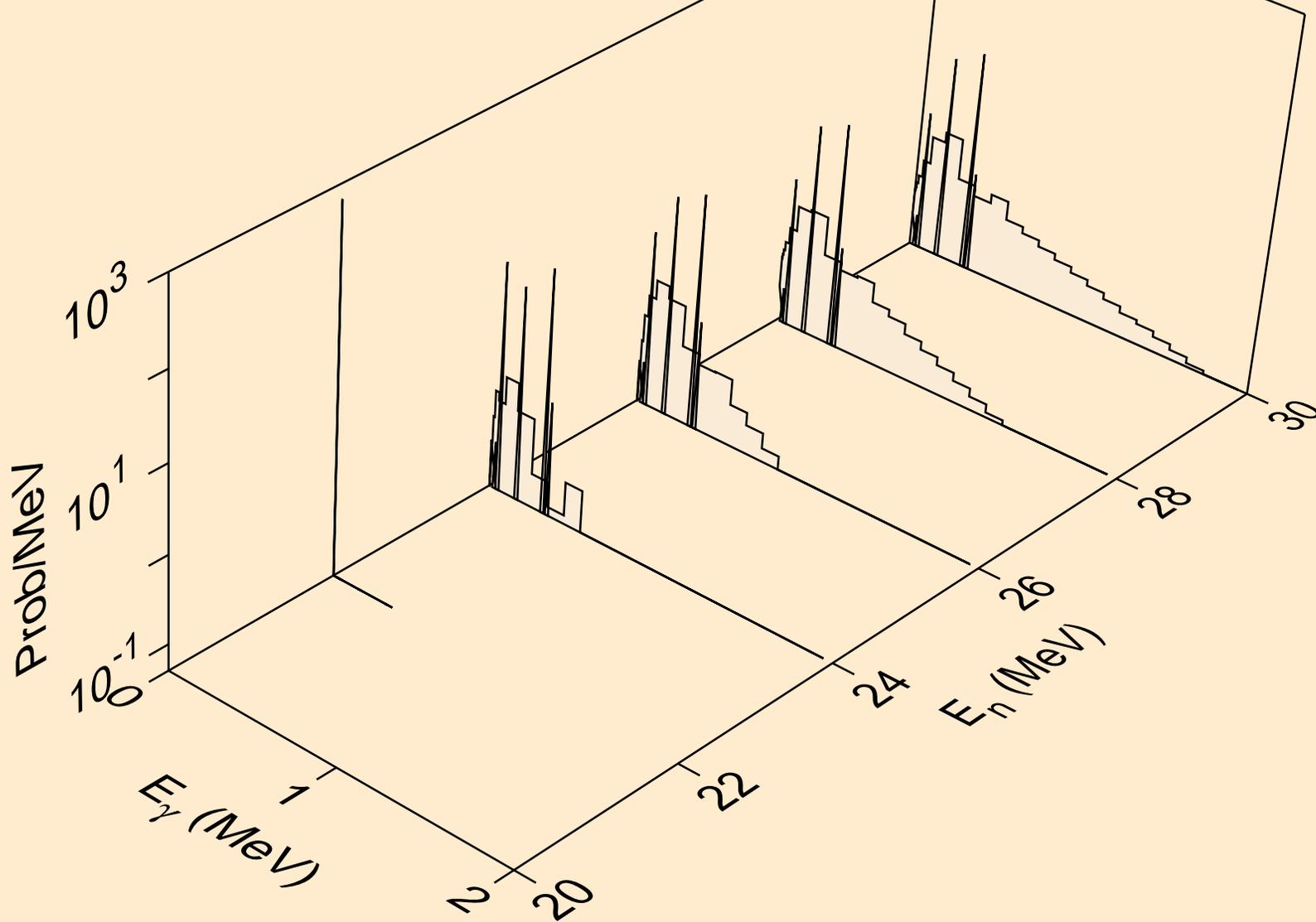E_n (MeV)

PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2n)

PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,3n)

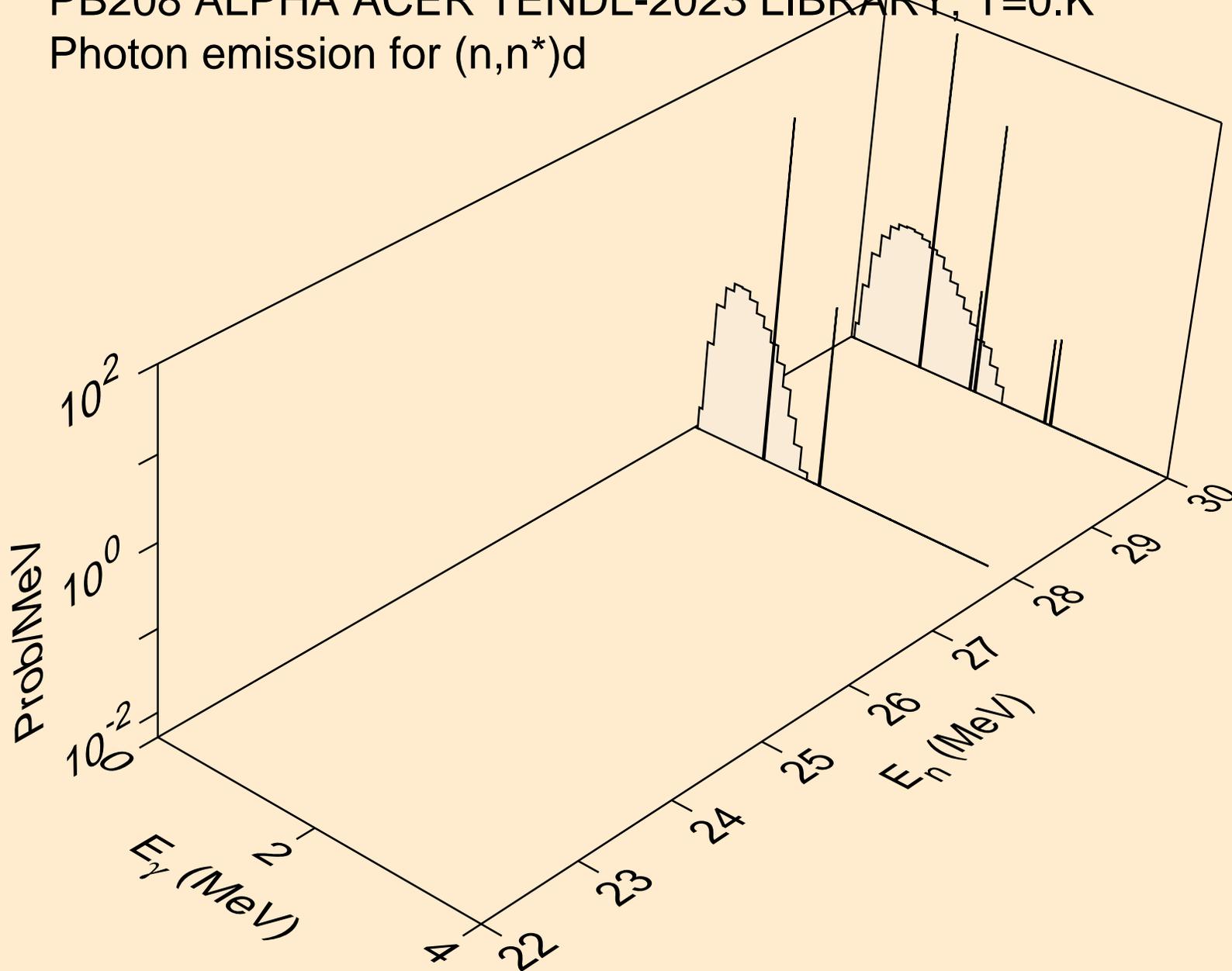PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)a
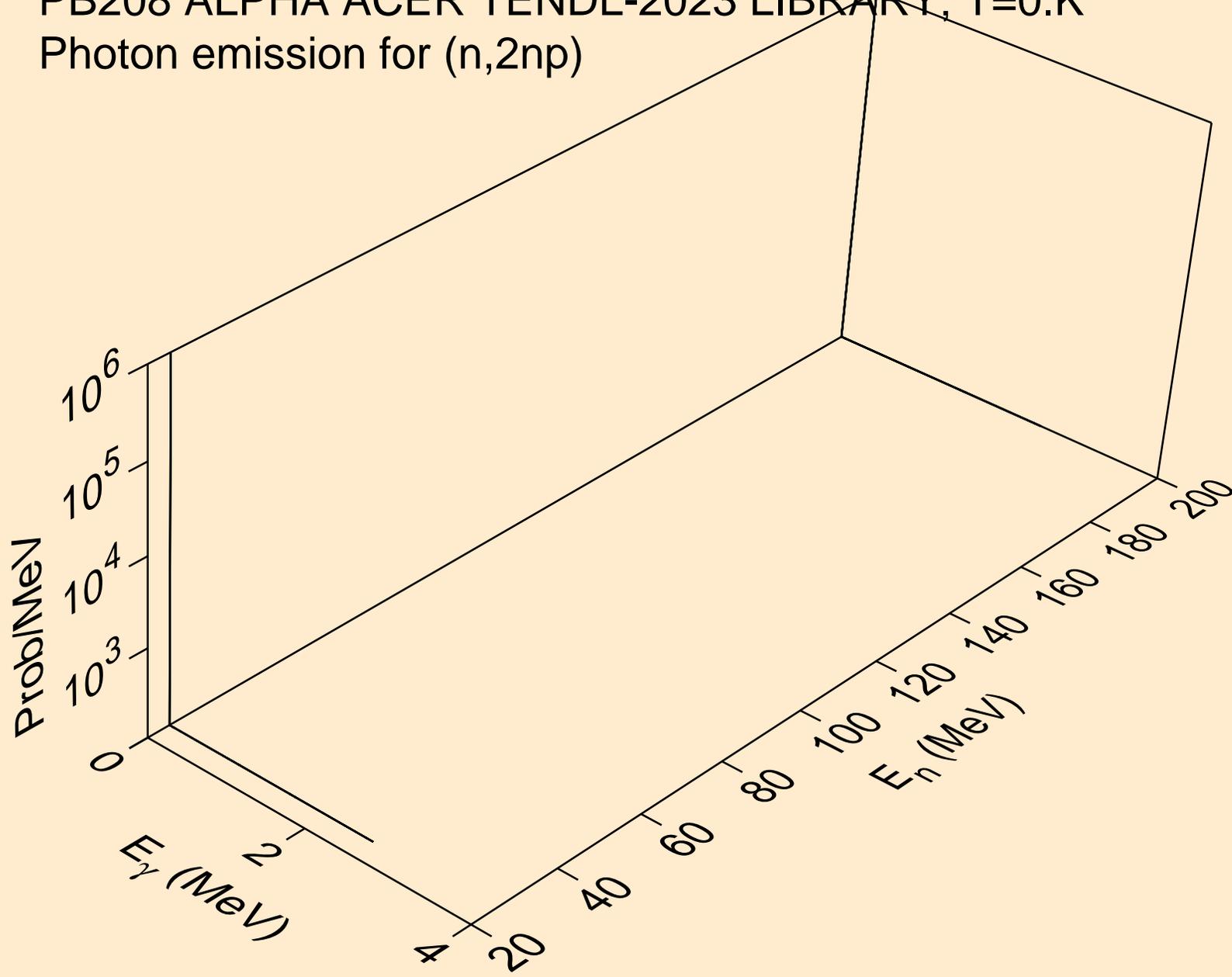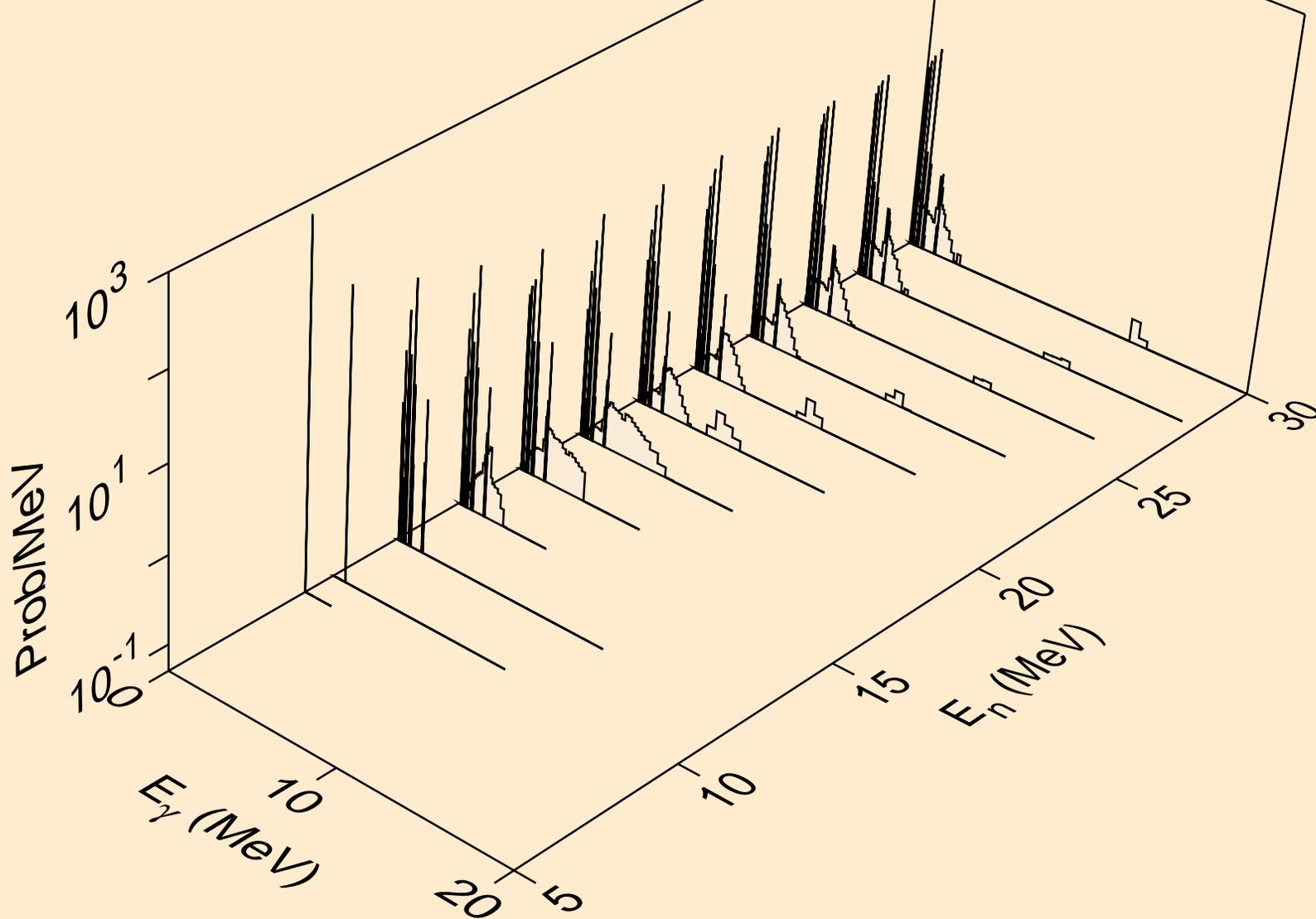
$Prob/MeV$

10^2

10^0

10^{-2}

E_γ (MeV)

5

10

E_n (MeV)

5

10

15

20

25

30

PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2n)a

Prob/MeV

10^3

10^1

10^{-1}

E_γ (MeV)

E_n (MeV)

PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)p

Prob/MeV

10^3

10^1

10^{-1}

10^0

E_γ (MeV)

1

2

20

22

24

26

28

30

E_n (MeV)

PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)d

E_γ (MeV)

E_n (MeV)

Prob/MeV

PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2np)

Prob/MeV

10^6

10^5

10^4

10^3

0

E_γ (MeV)

2

4

20

40

60

80

100

120

140

160

180

200

E_n (MeV)

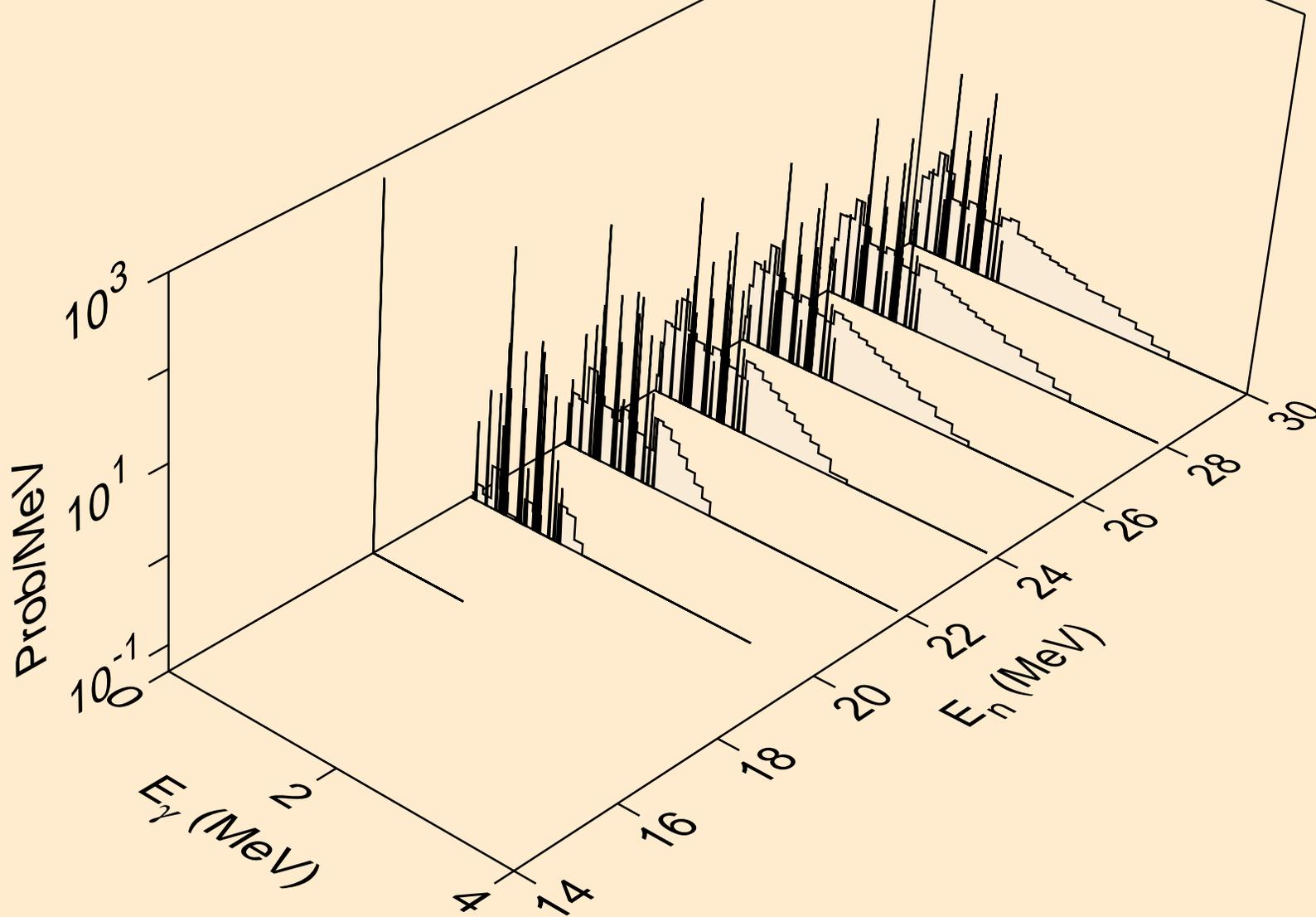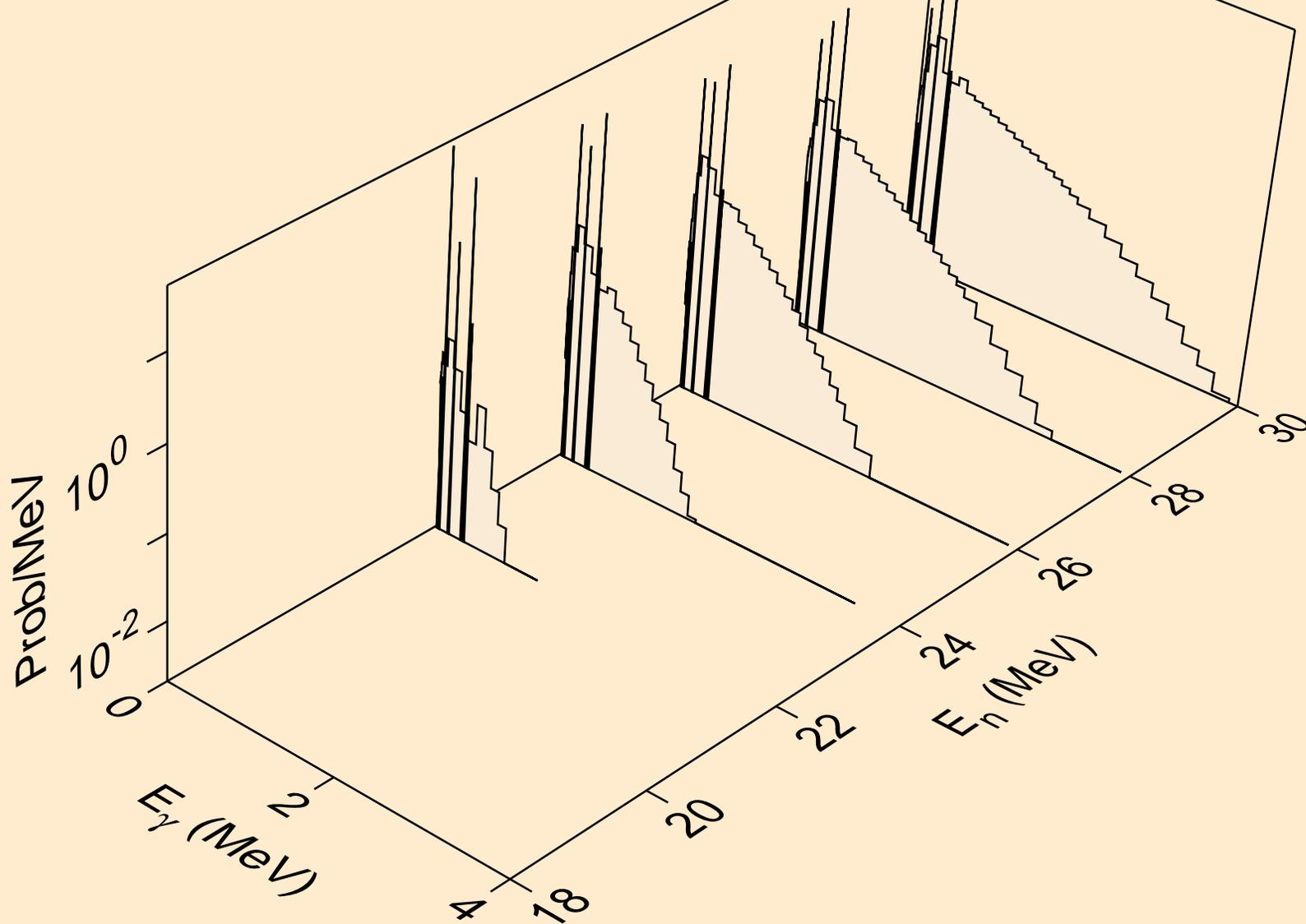PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
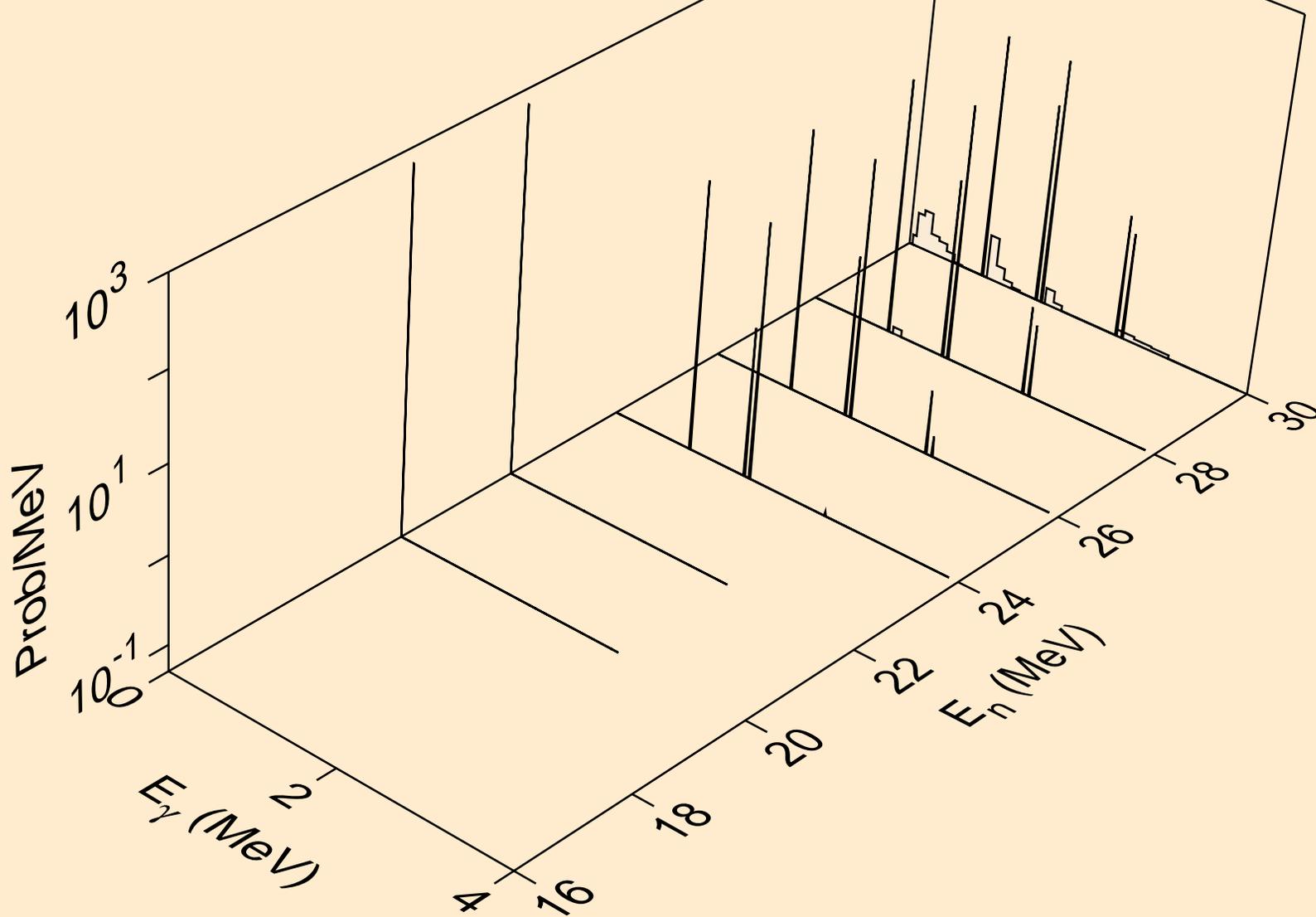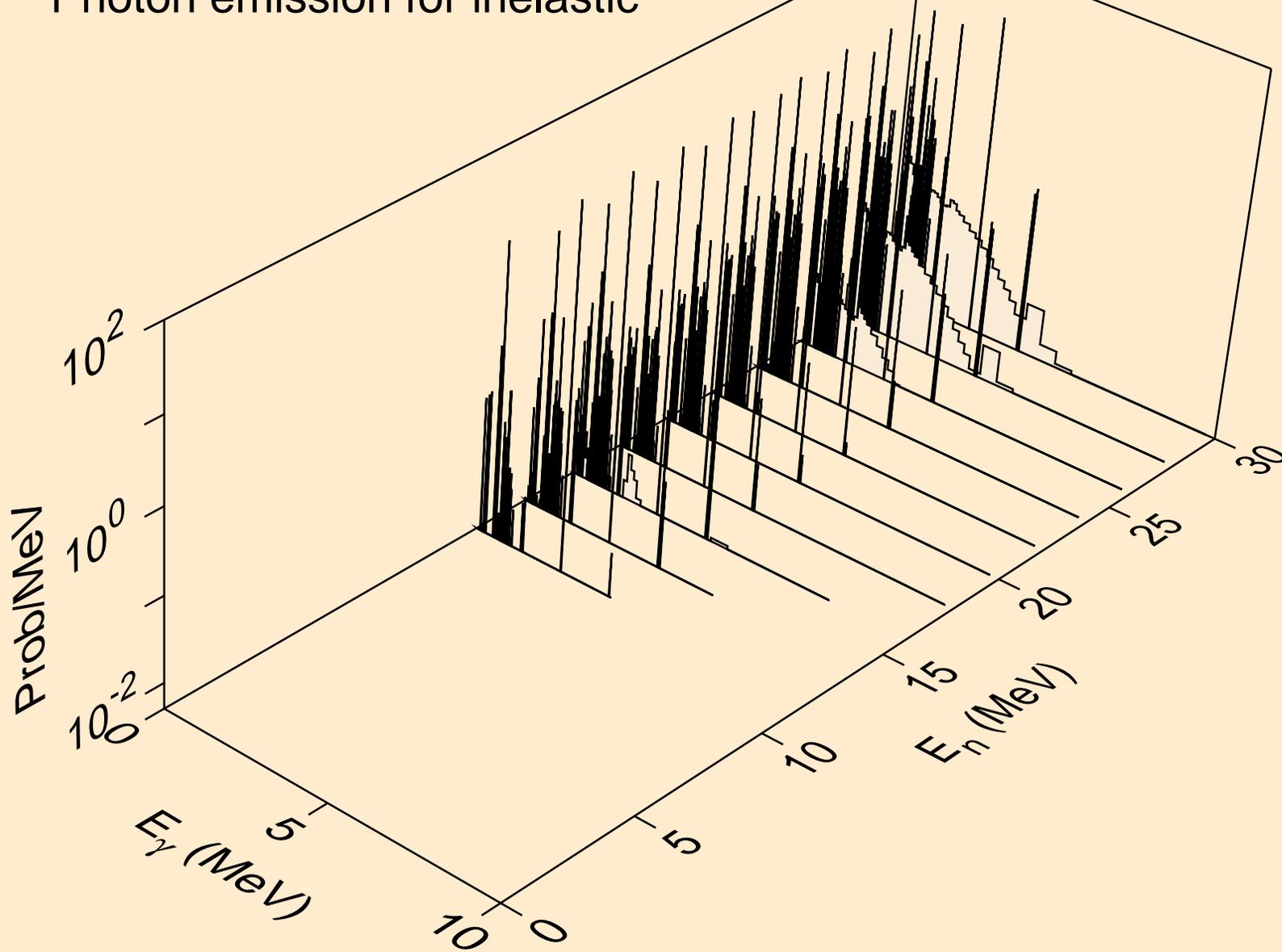Photon emission for (n,gma)

PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,p)

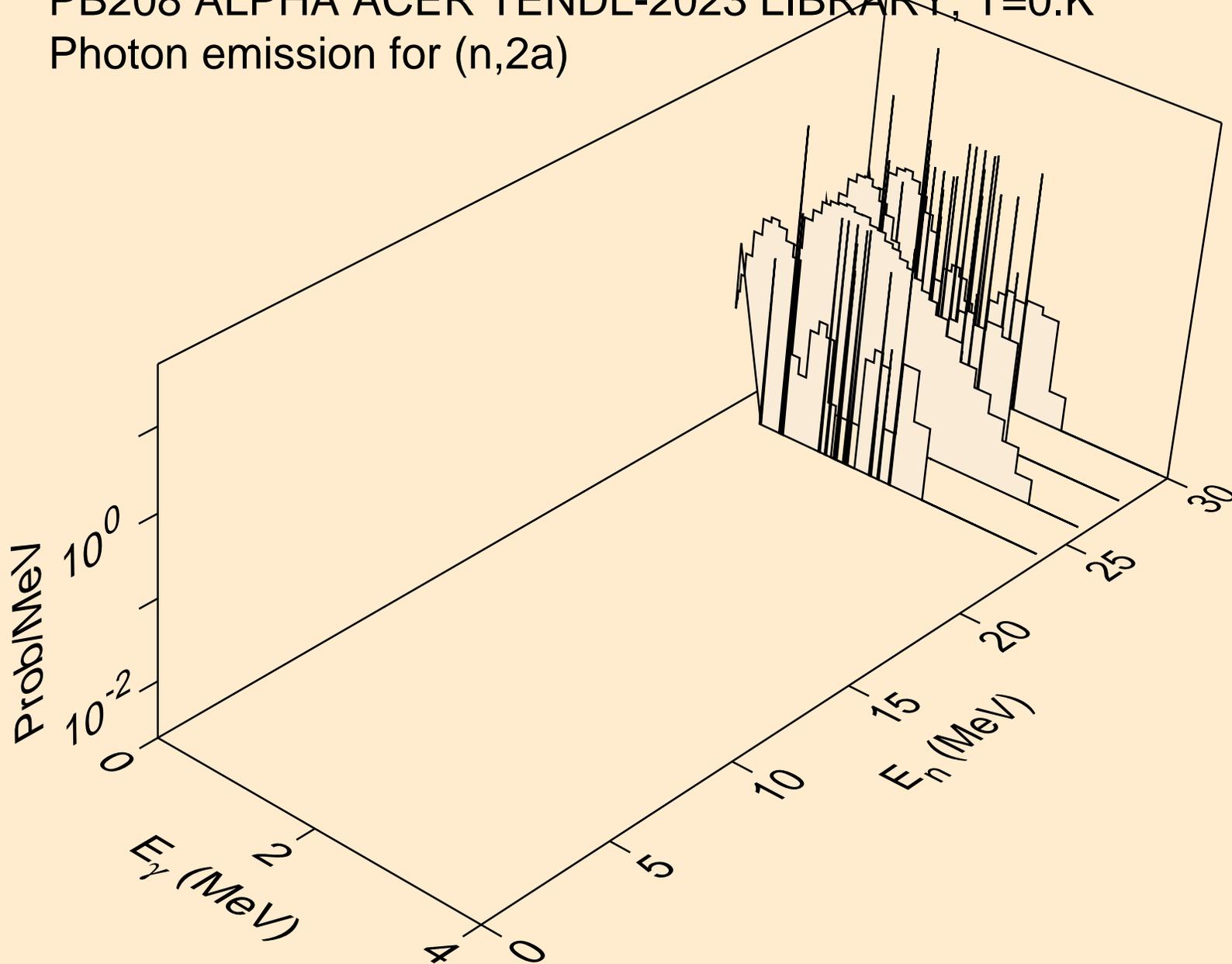PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,d)

PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,t)

$Prob/MeV$

10^3

10^1

10^{-1}

E_γ (MeV)

E_n (MeV)

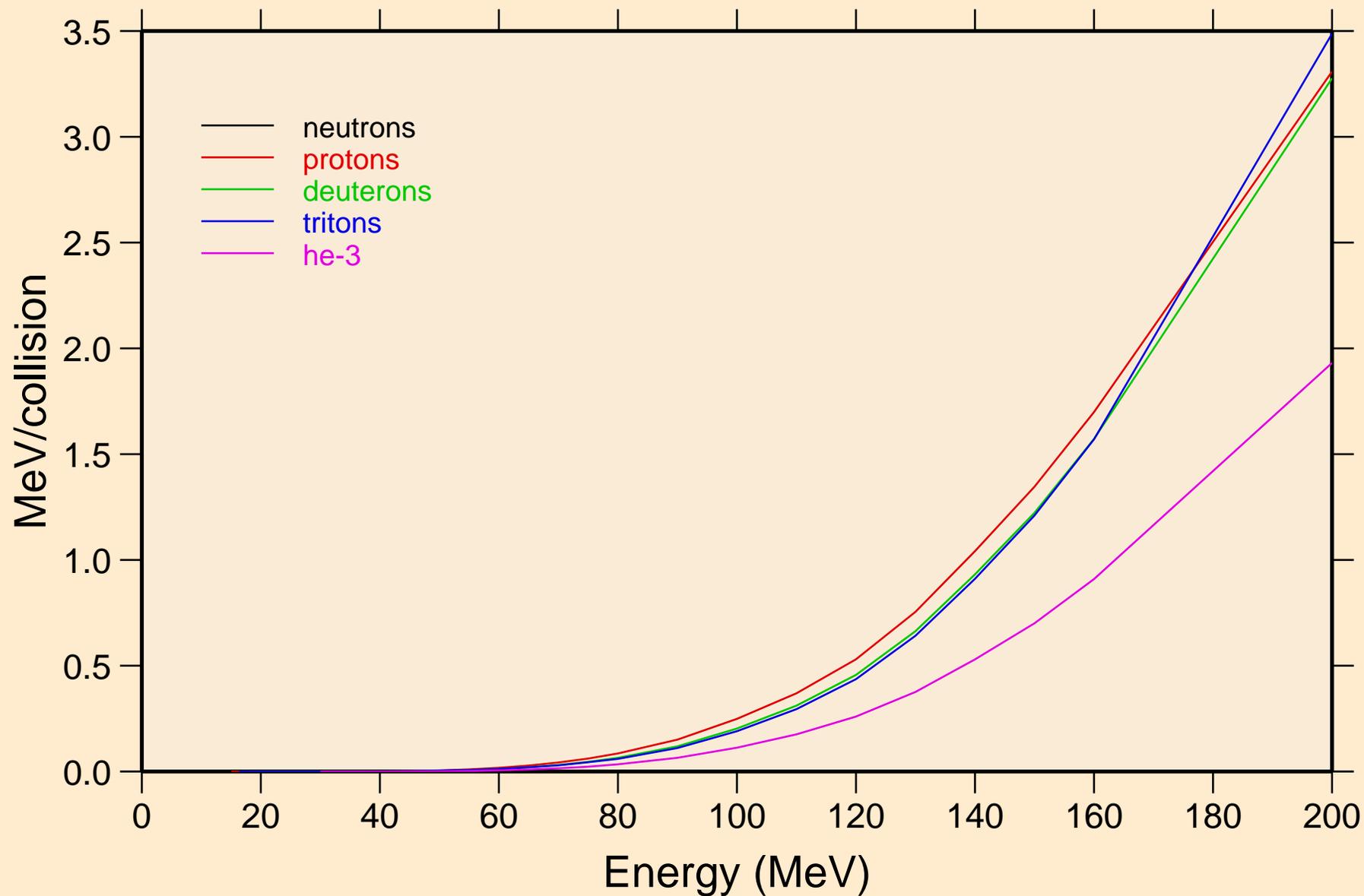PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for inelastic

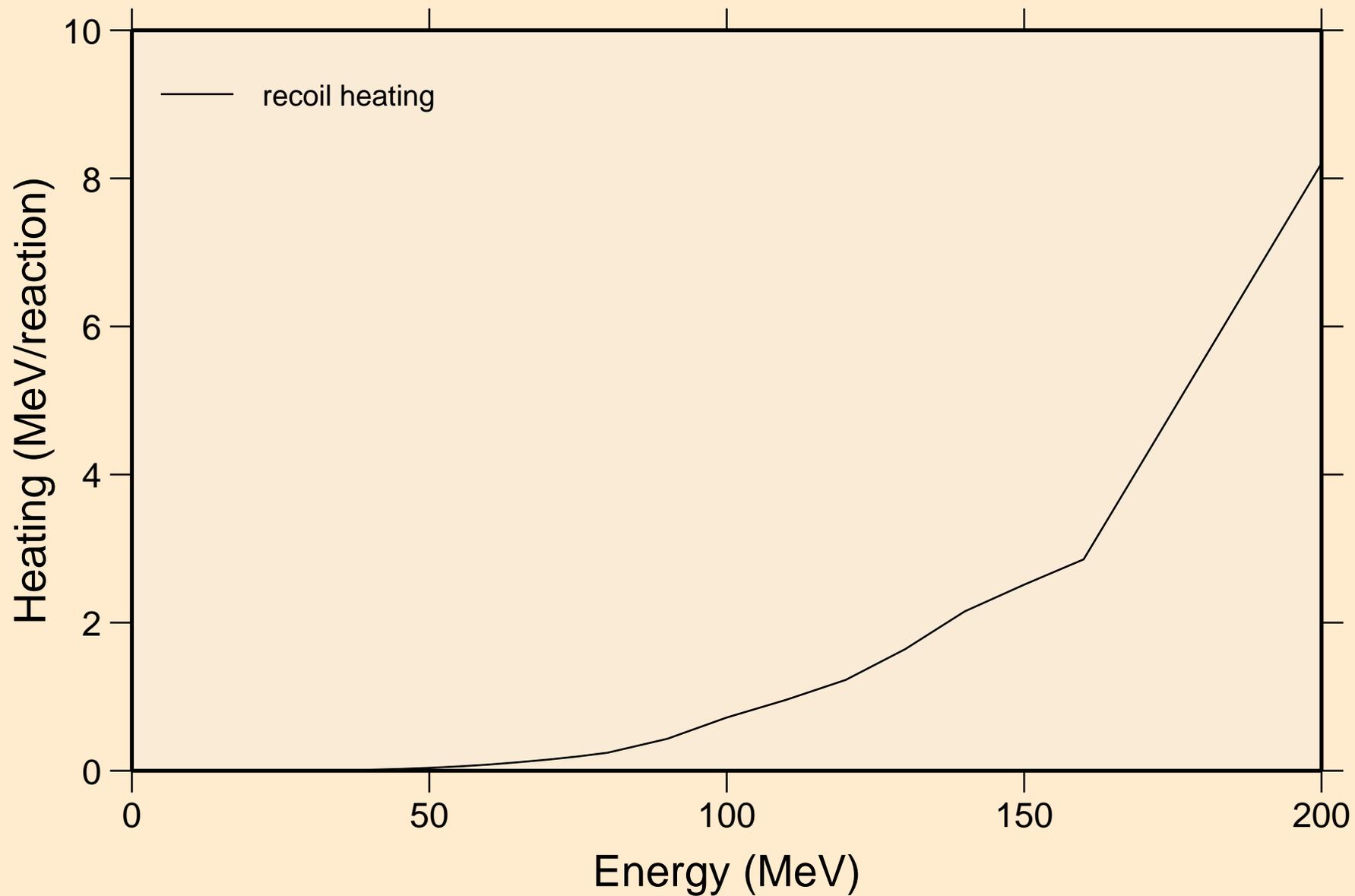PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2a)

PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
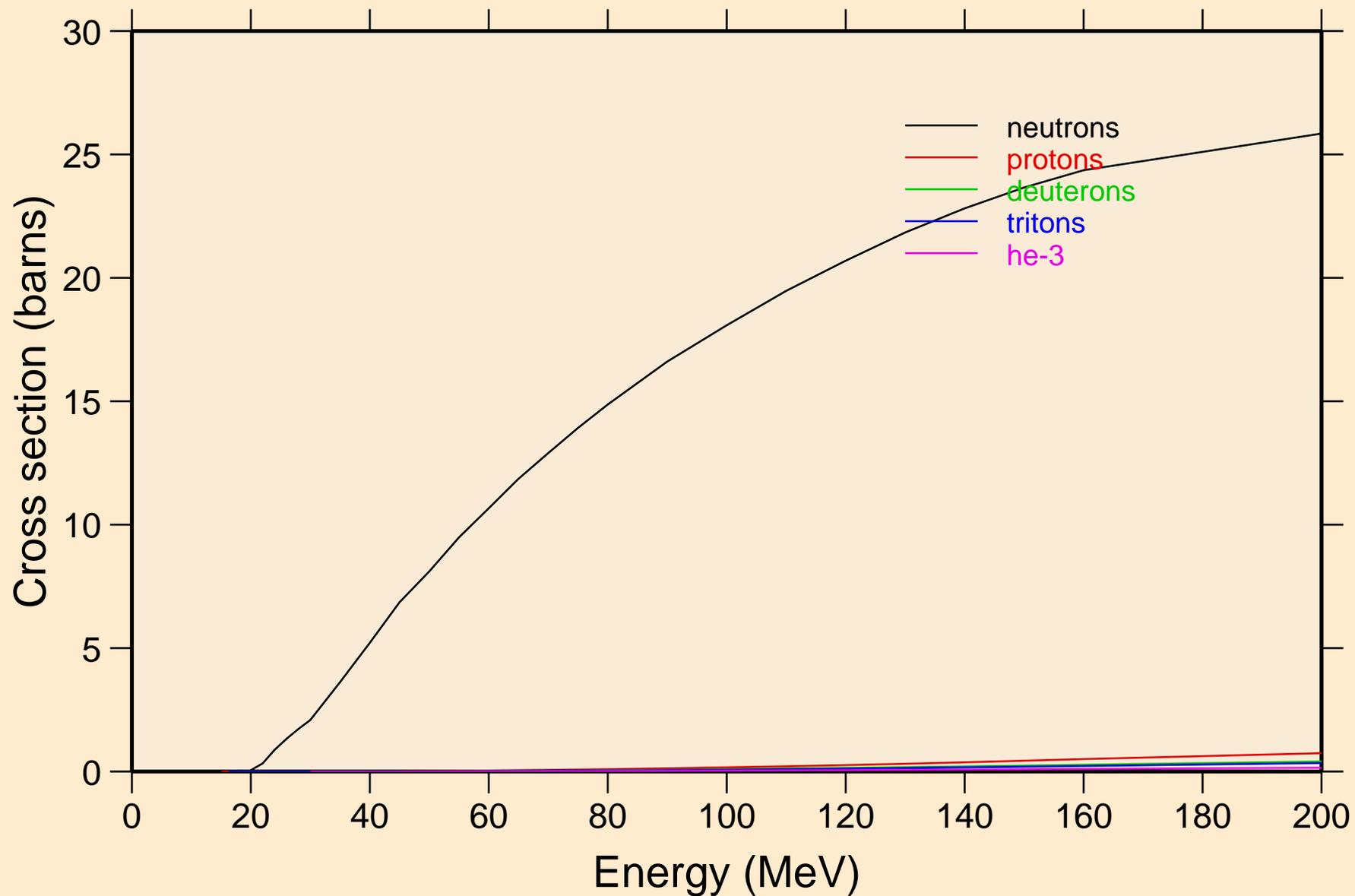Particle heating contributions

neutrons
protons
deuterons
tritons
he-3

MeV/collision

Energy (MeV)

PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Recoil Heating

recoil heating

Heating (MeV/reaction)

Energy (MeV)

PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Particle production cross sections

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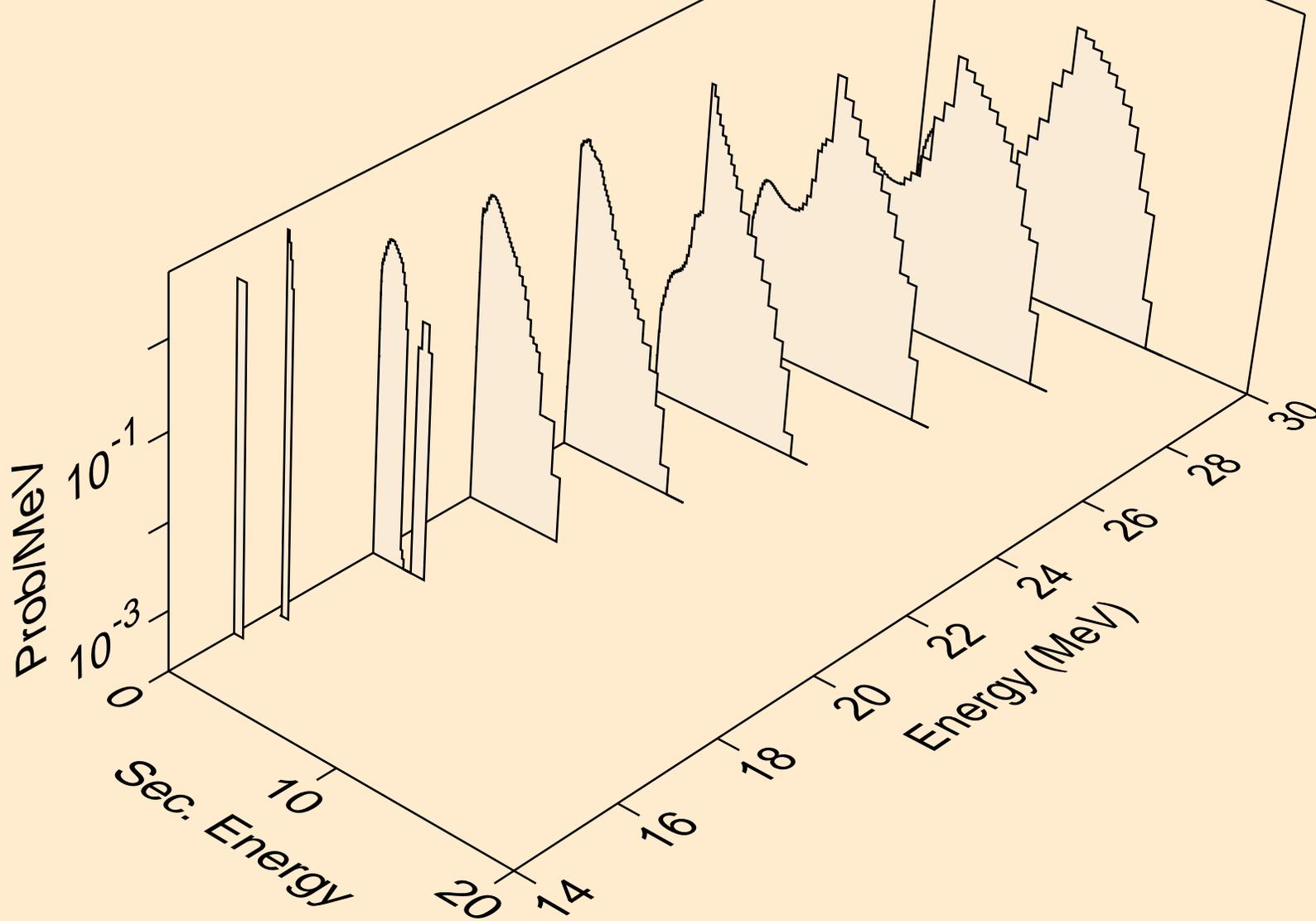- protons
- deuterons
- tritons
- he-3

Cross section (barns)

Energy (MeV)

PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
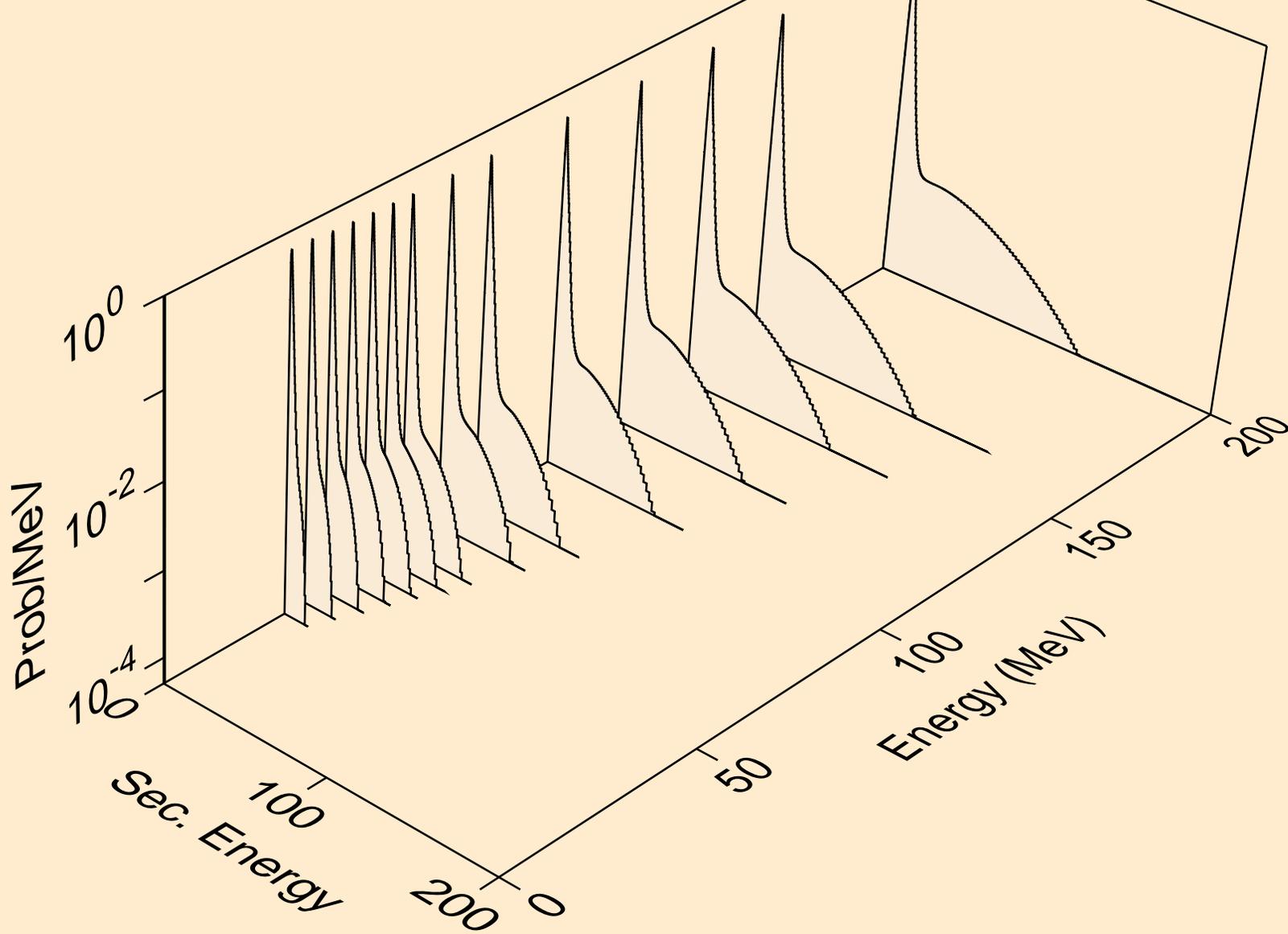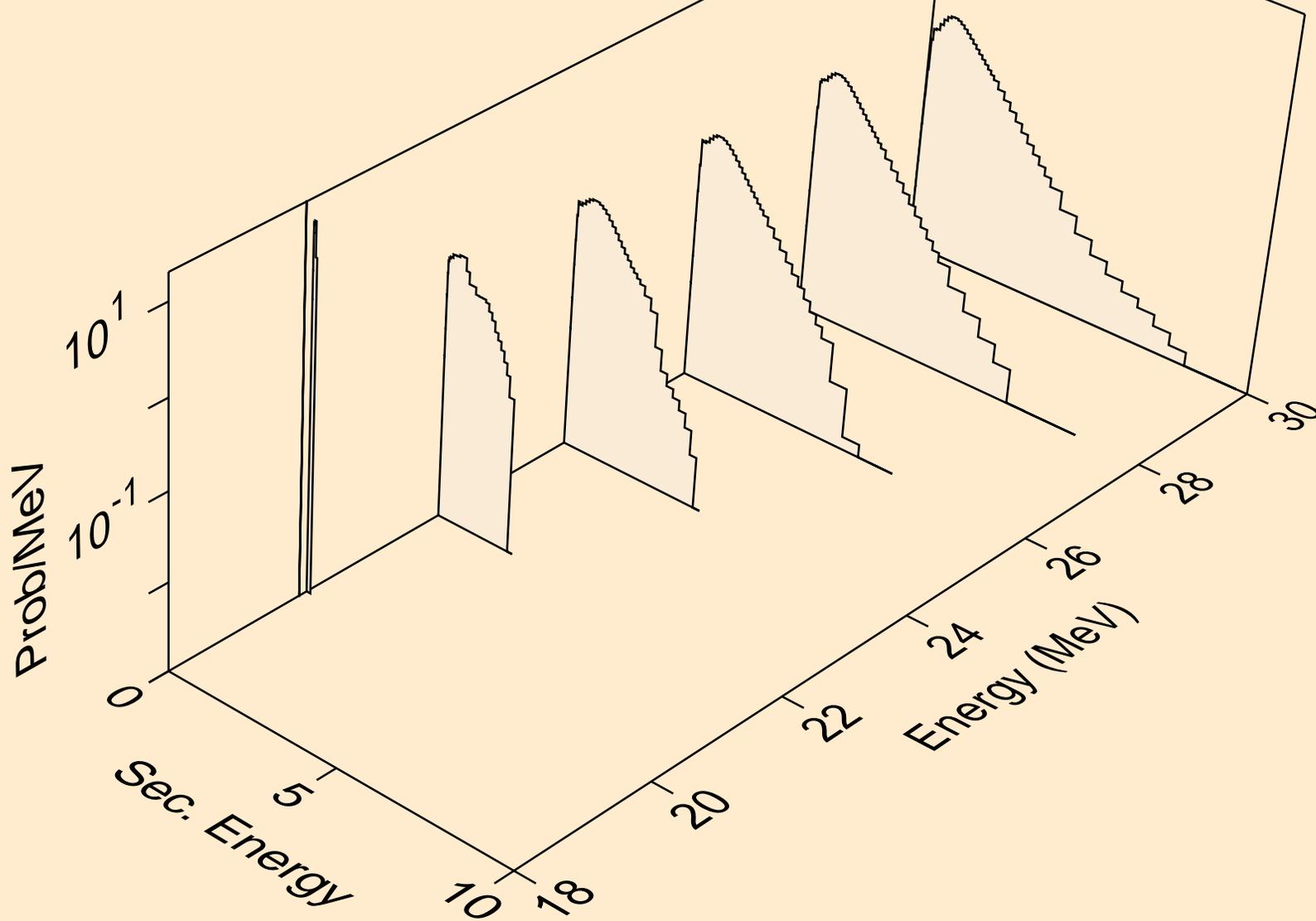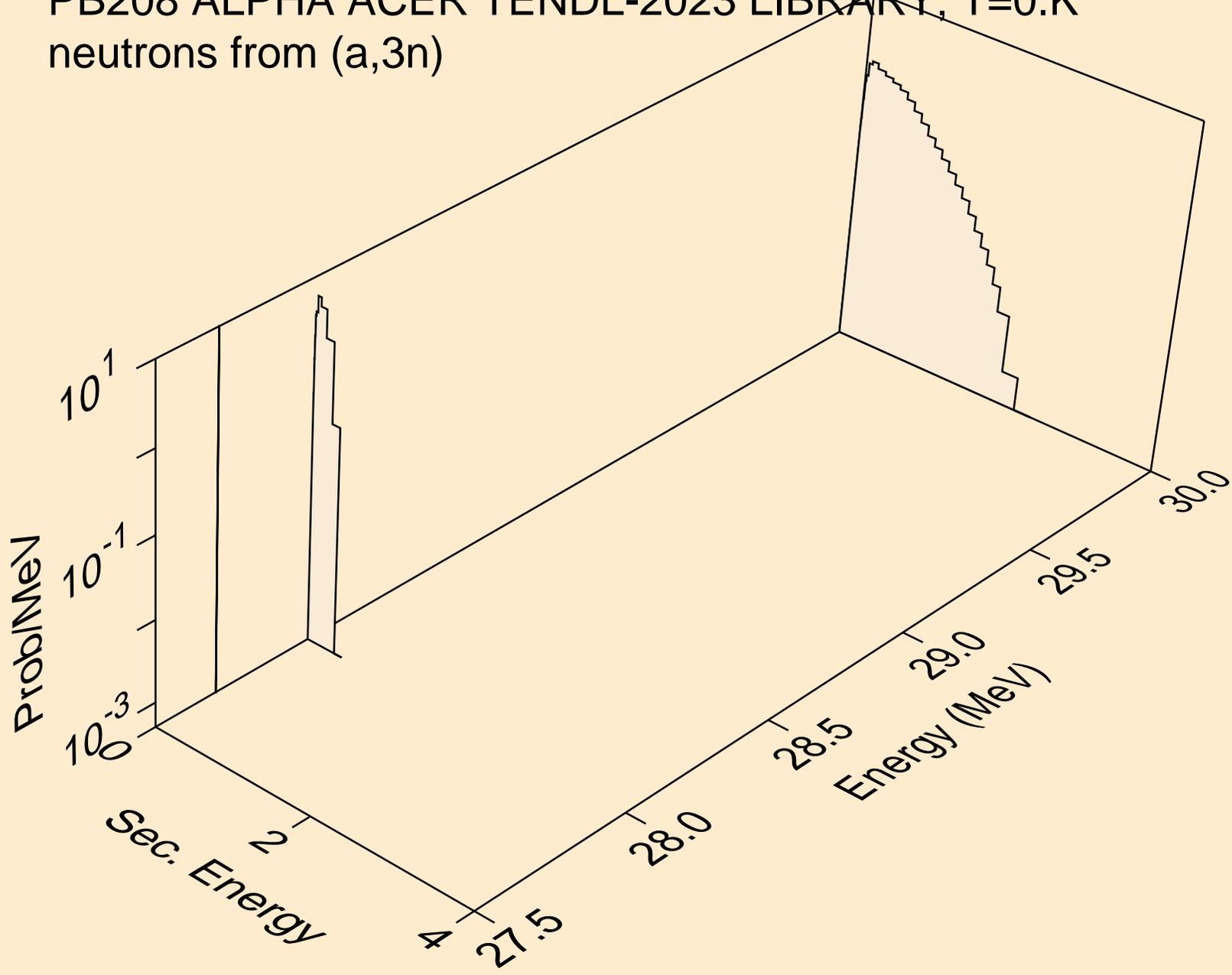neutrons from (a,n)

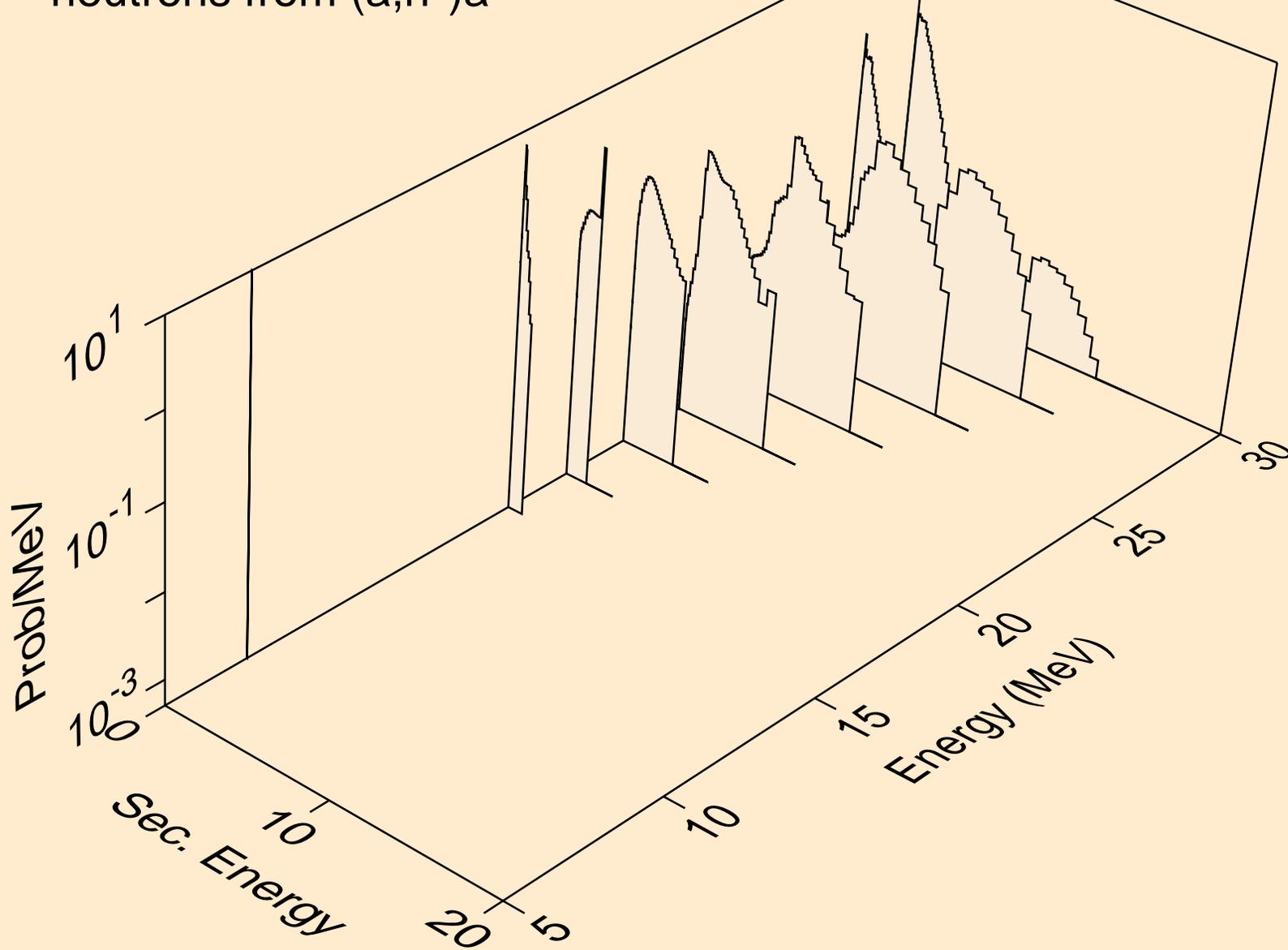PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (a,x)

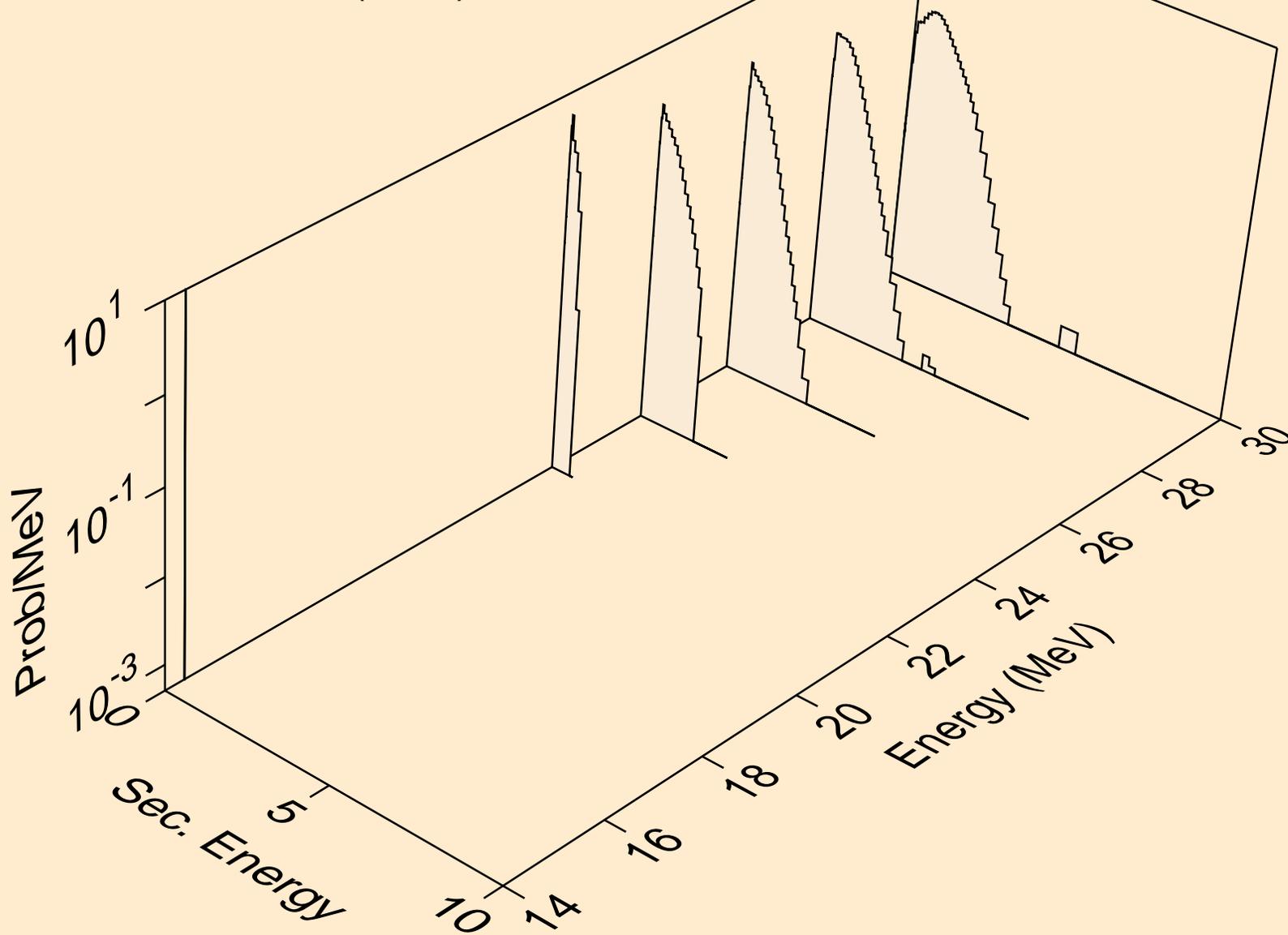PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (a,2n)

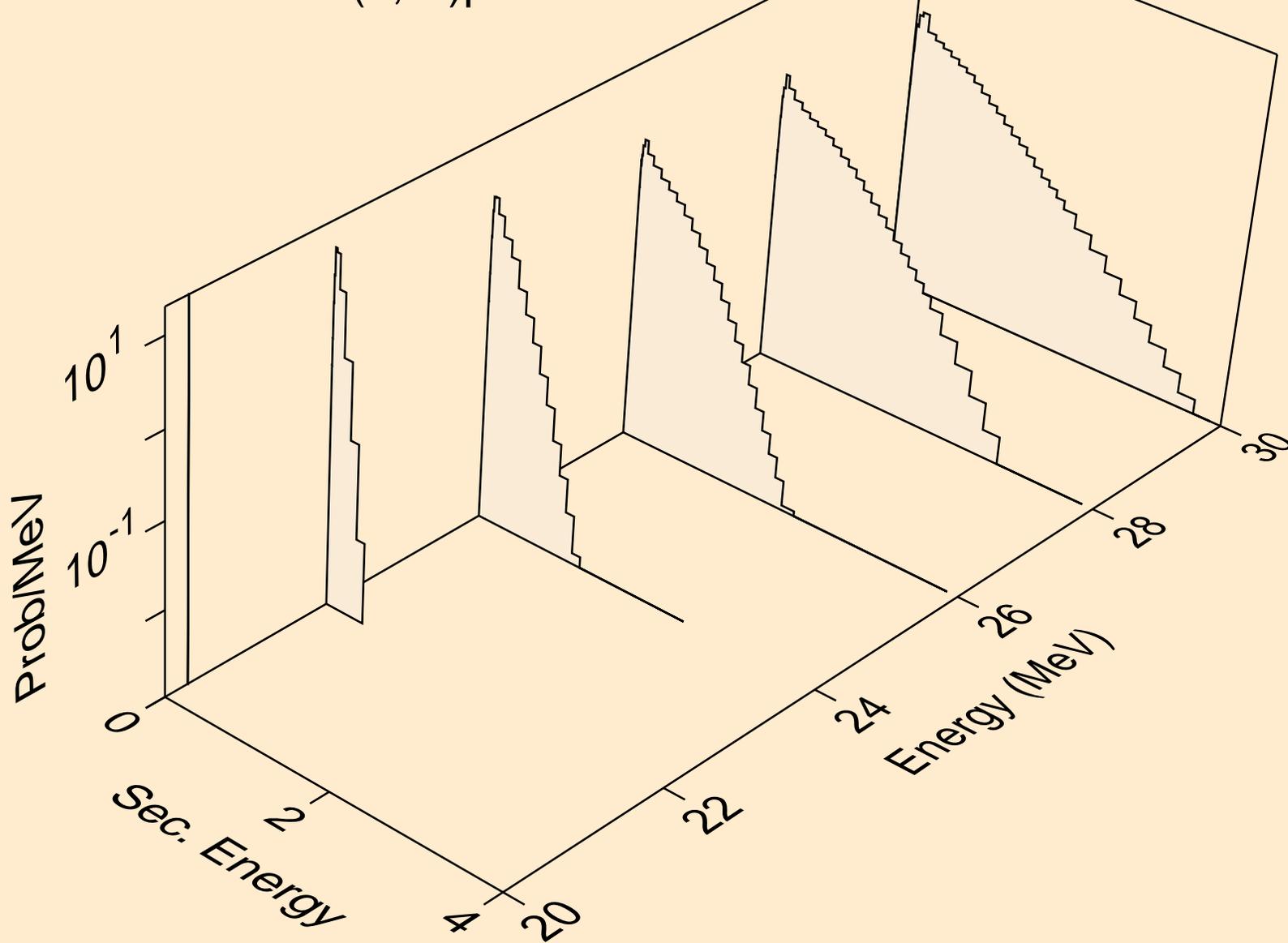PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (a,3n)

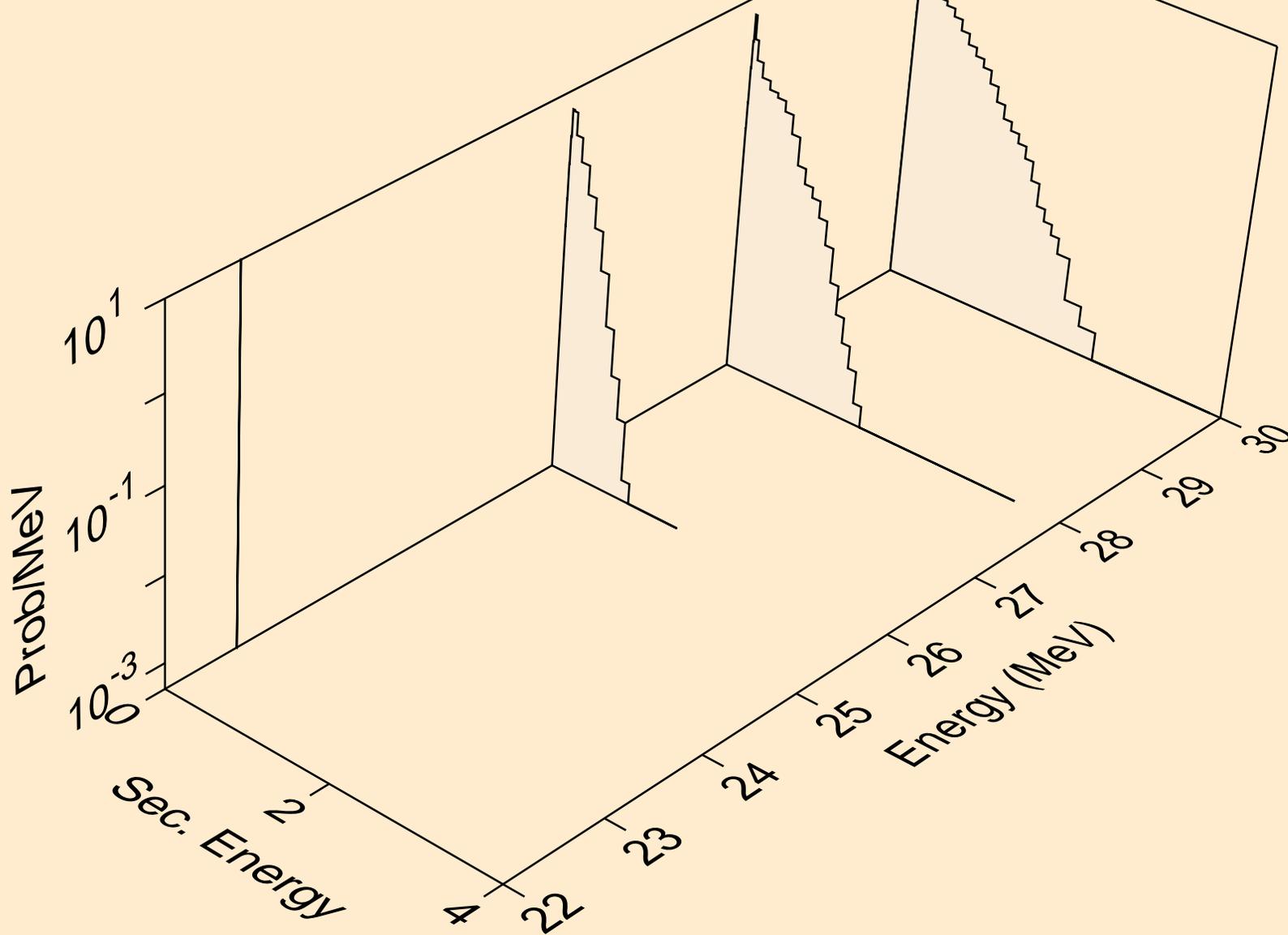PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (a,n*)a

Prob/MeV

10^1

10^{-1}

10^{-3}

Sec. Energy

10

20

5

10

15

20

25

30

Energy (MeV)

PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (a,2n)a

Prob/MeV

10^1

10^{-1}

10^{-3}

10^0

Sec. Energy

5

10

Energy (MeV)
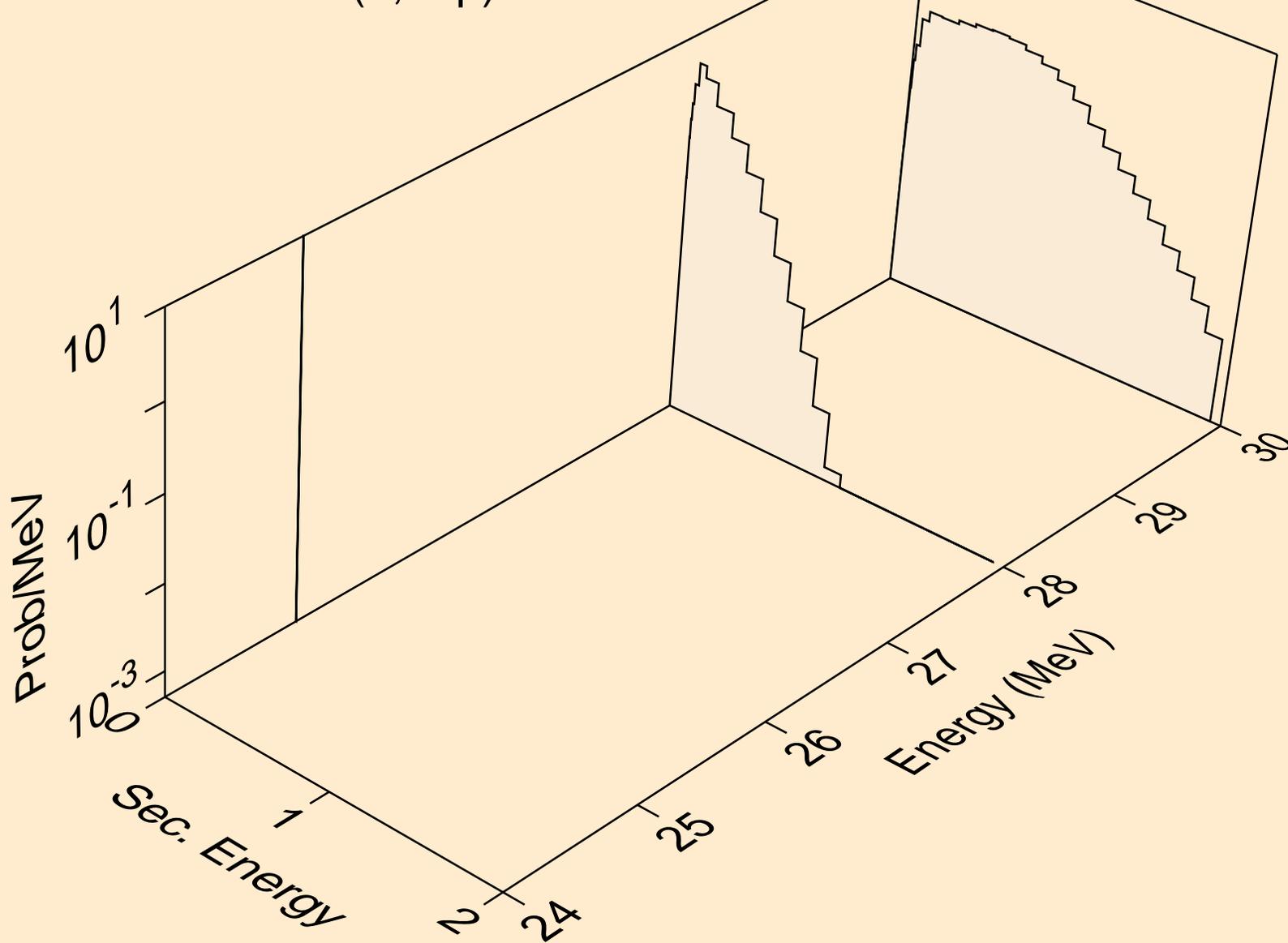
14

16

18

20

22

24

26

28

30

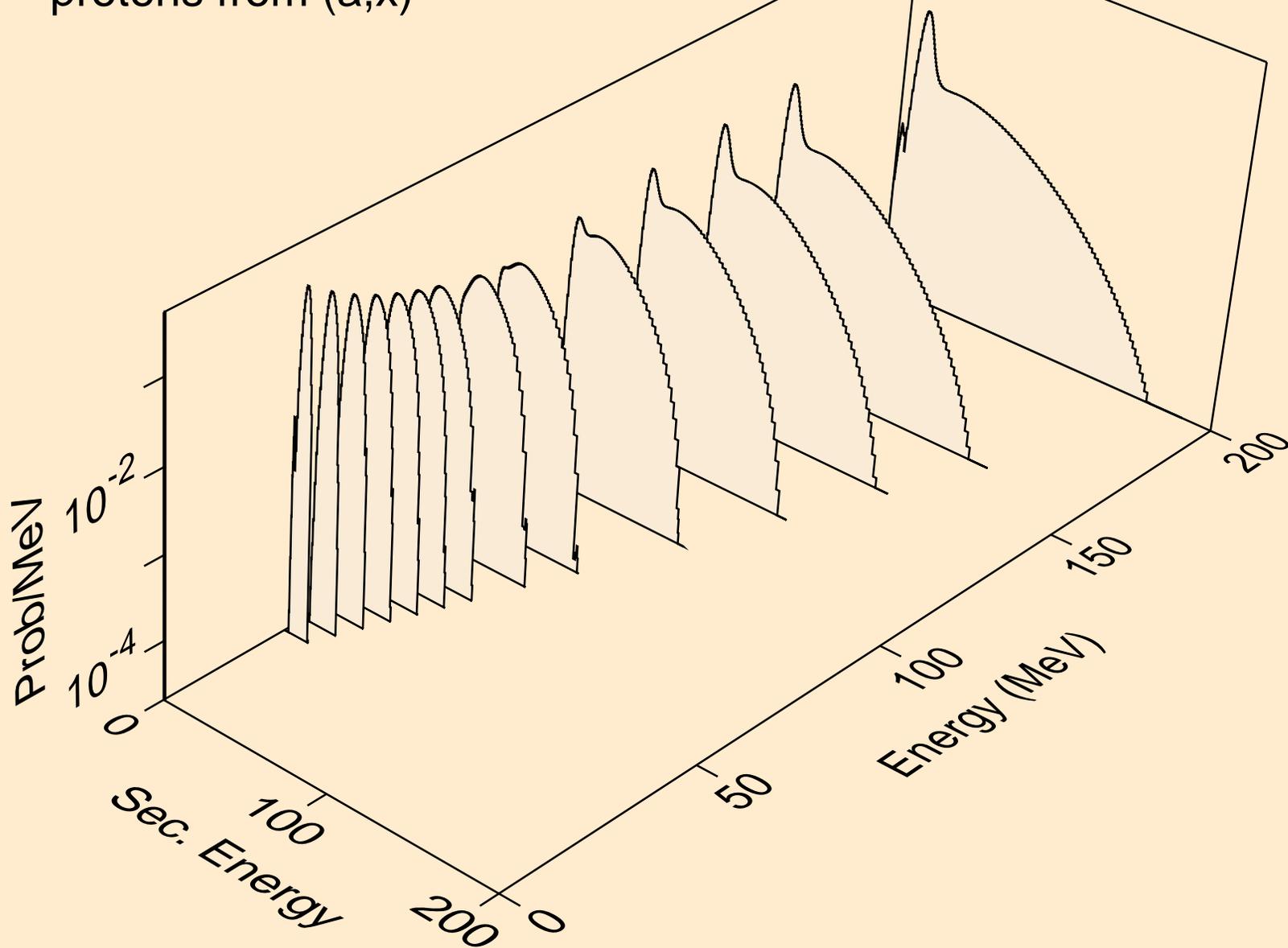PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (a,n*)p

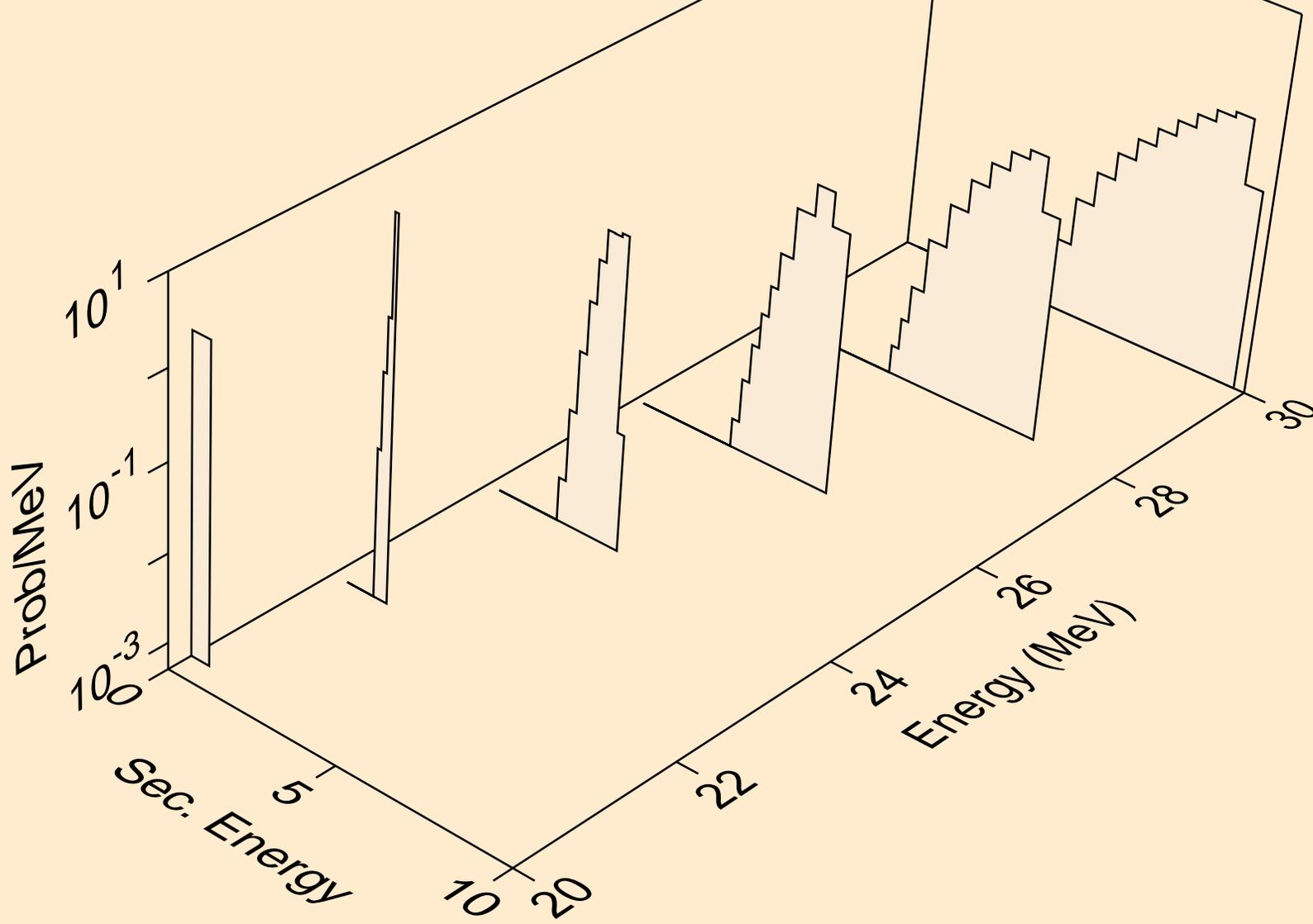PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (a,n*)d

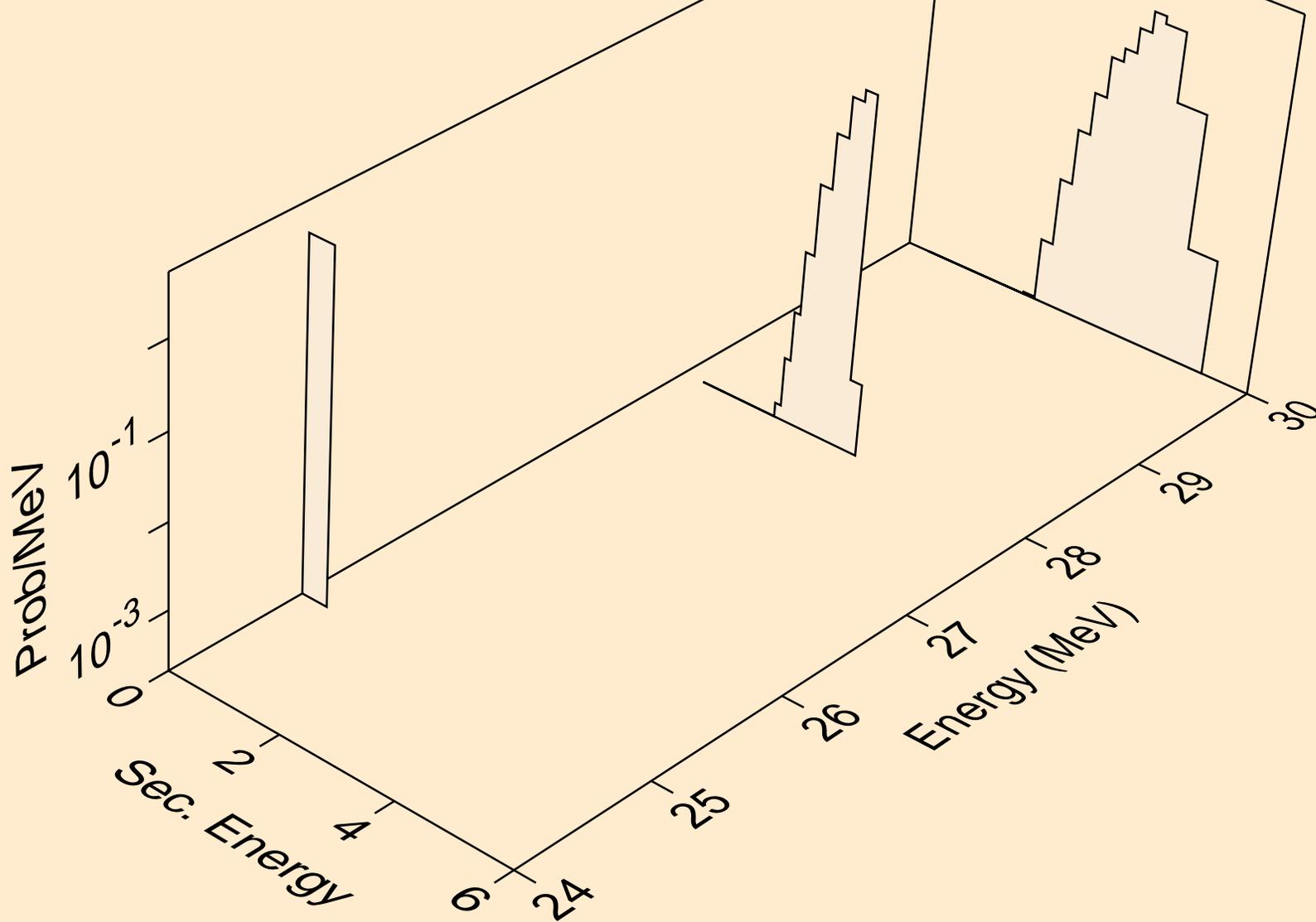PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (a,2np)

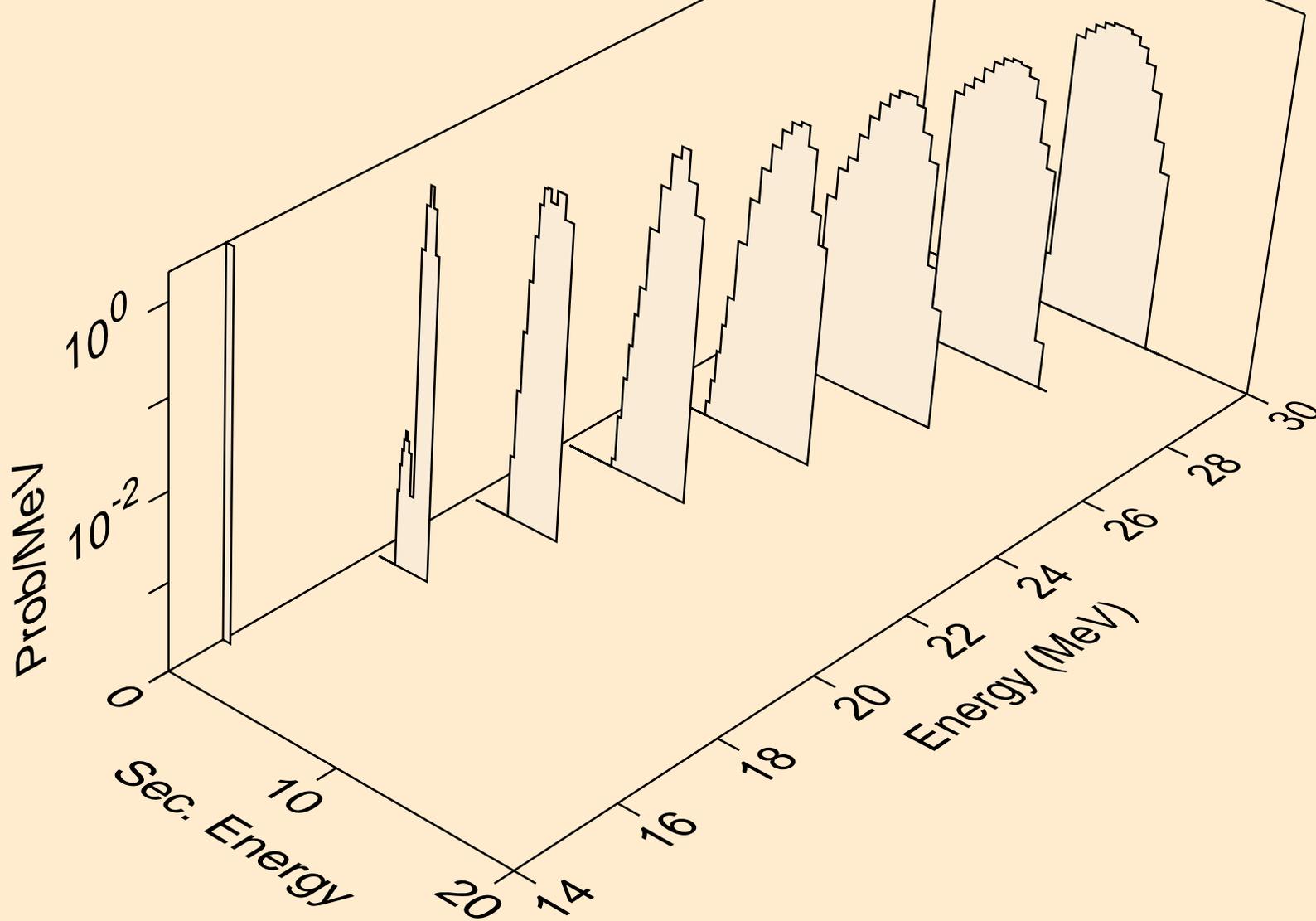PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
protons from (a,x)

PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
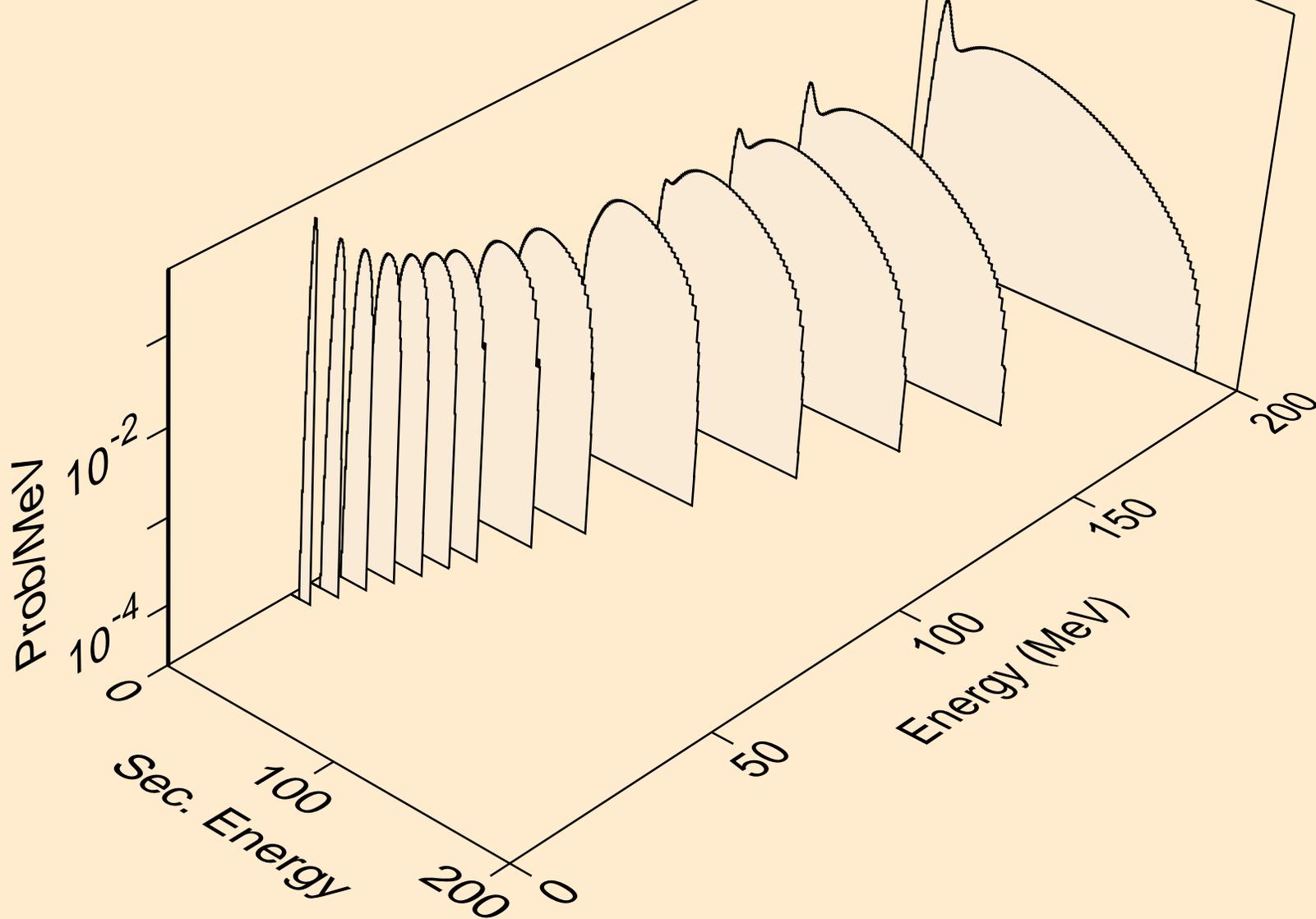protons from (a,n*)p

PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
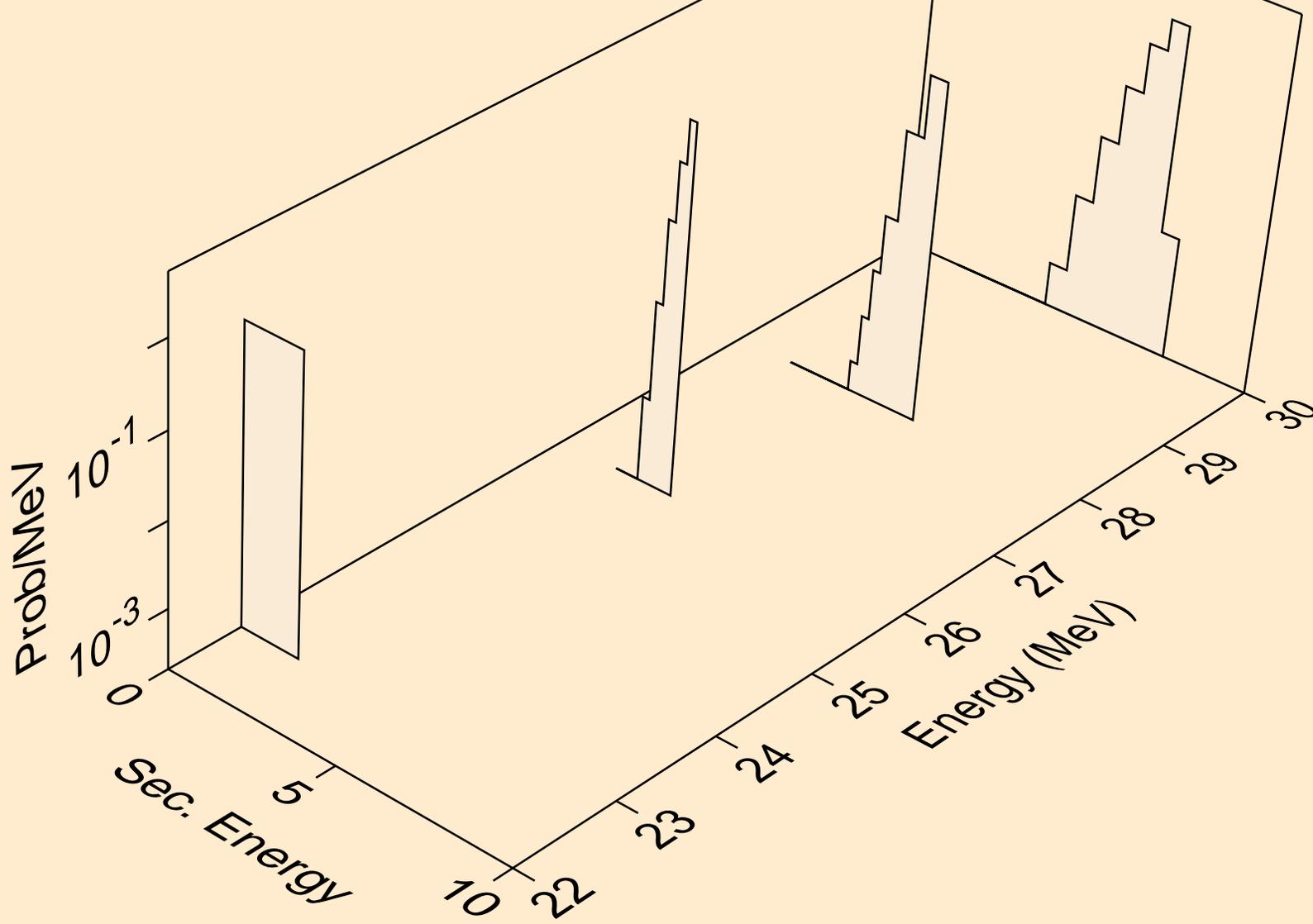protons from (a,2np)

PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
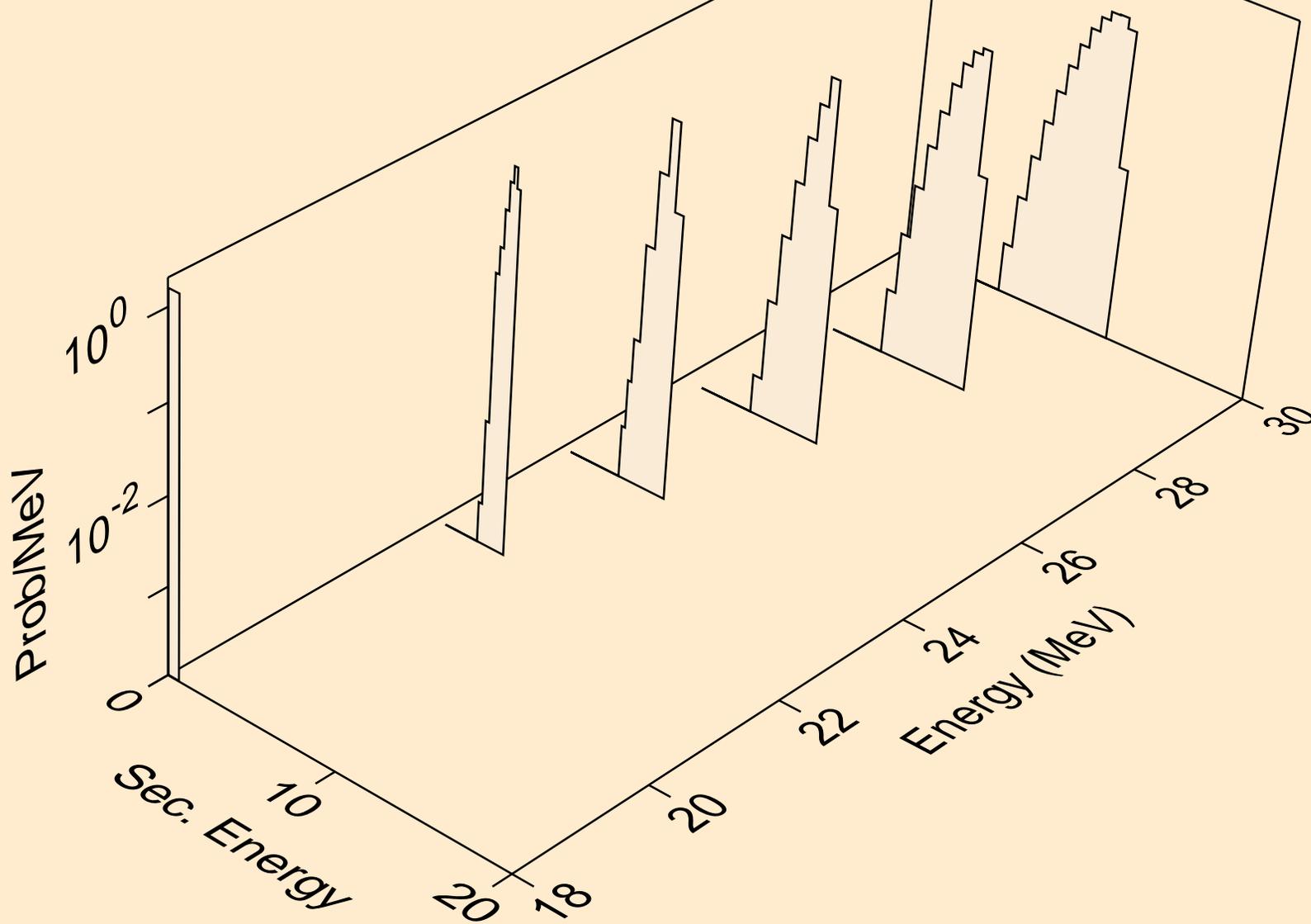protons from (a,p)

PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
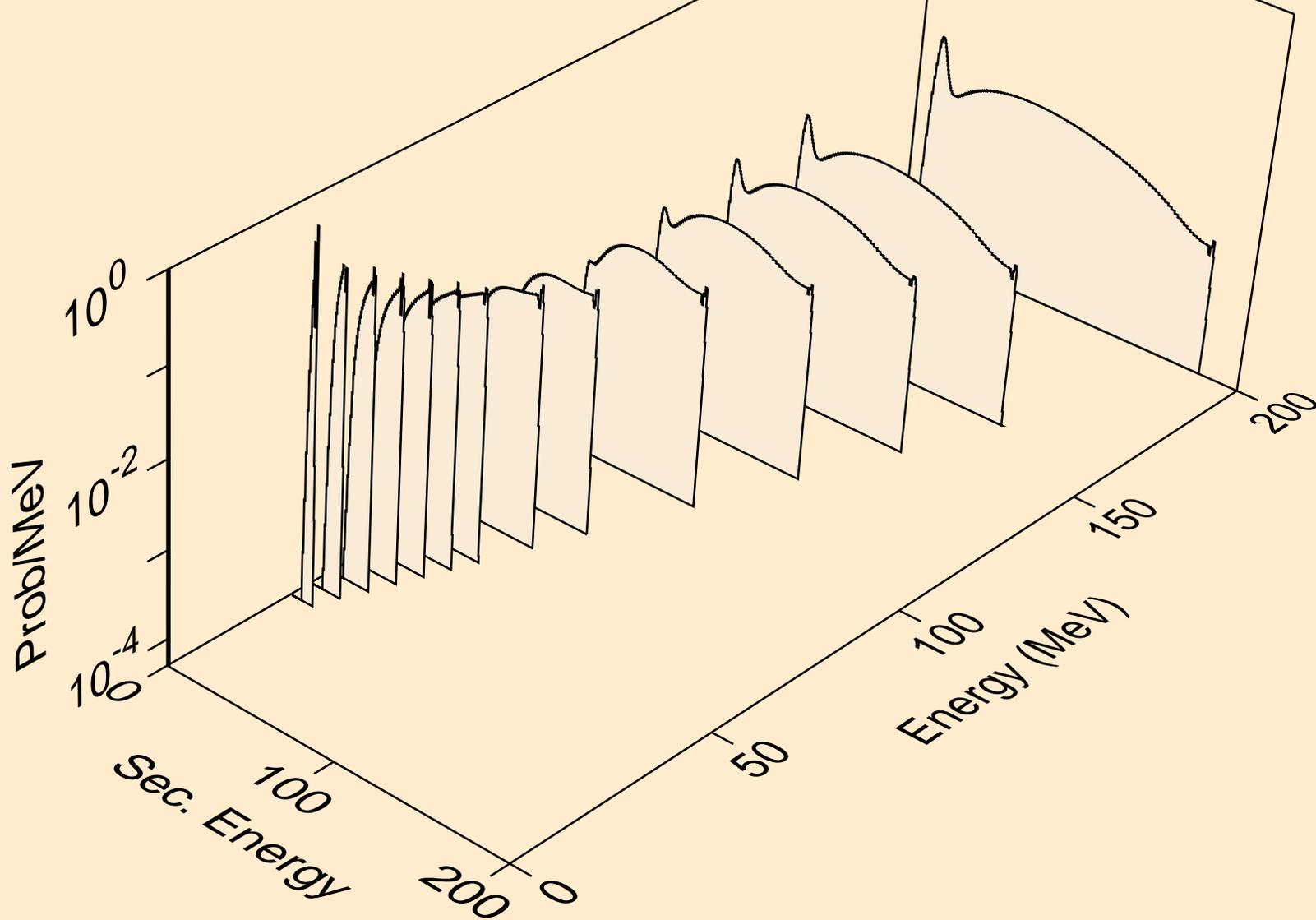deuterons from (a,x)

PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (a,n*)d

Prob/MeV

10^{-1}

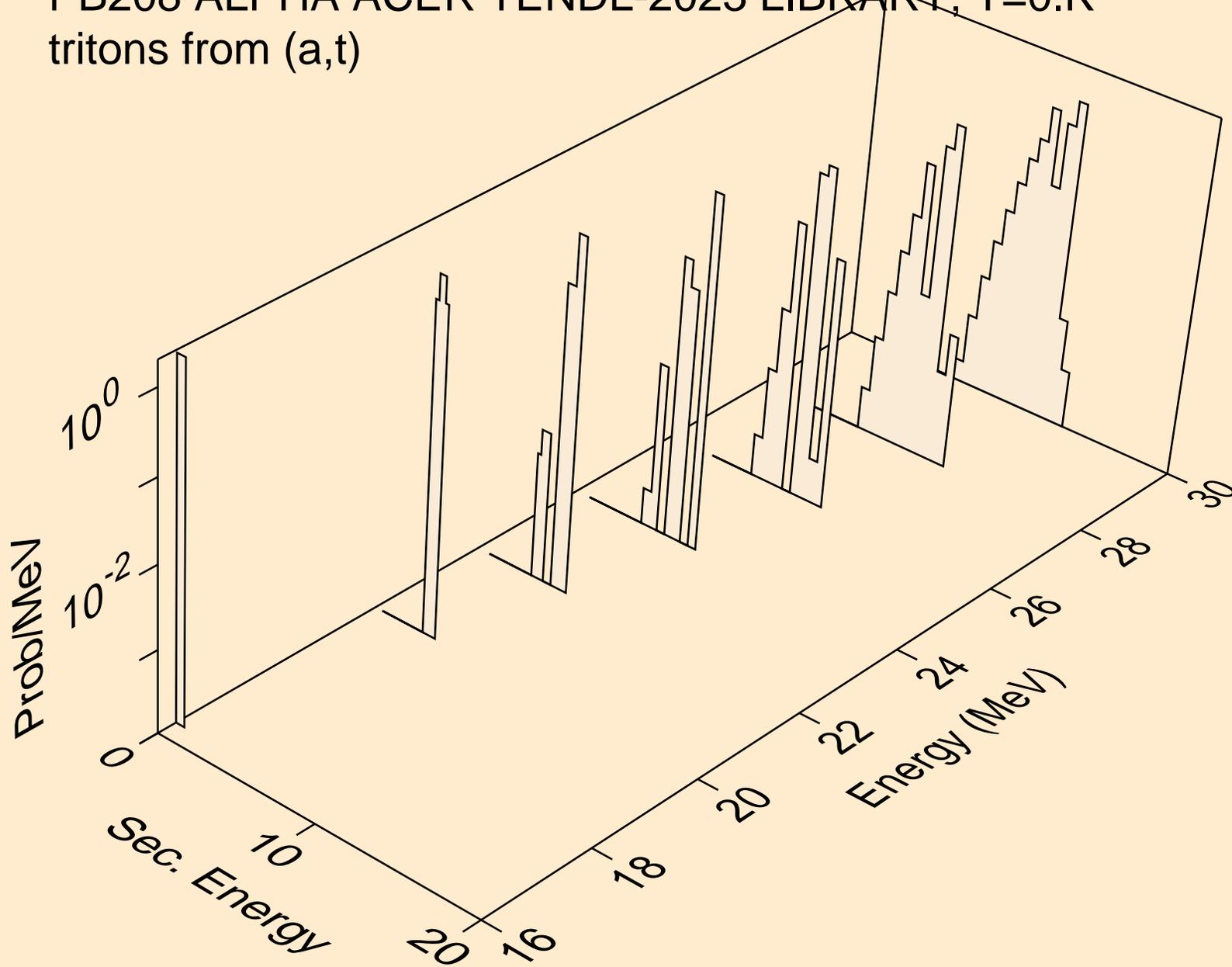10^{-3}

Sec. Energy

Energy (MeV)

PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (a,d)

PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
tritons from (a,x)

PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
tritons from (a,t)

PB208 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
he3s from (a,x)