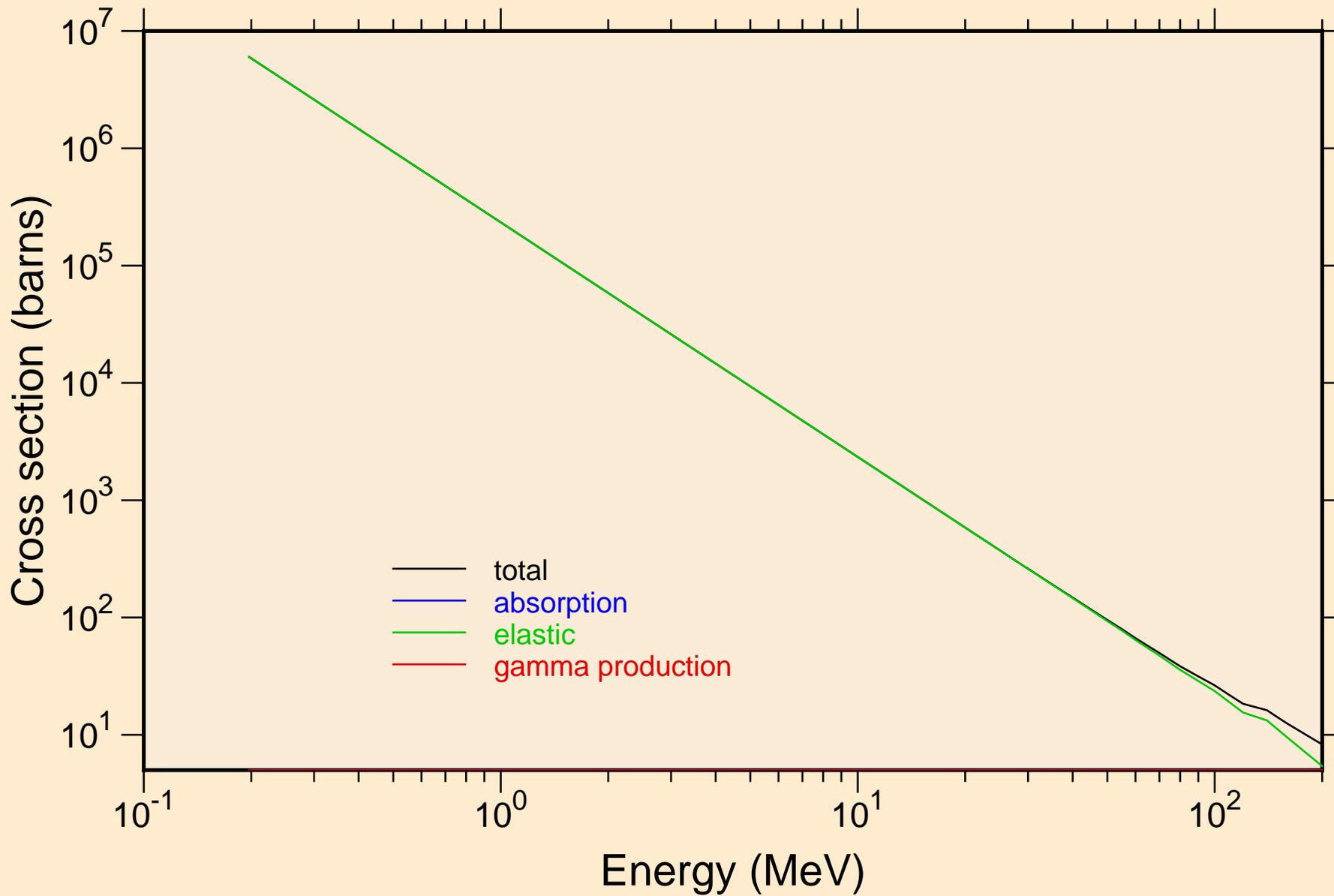CM237 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Principal cross sections

CM237 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Heating

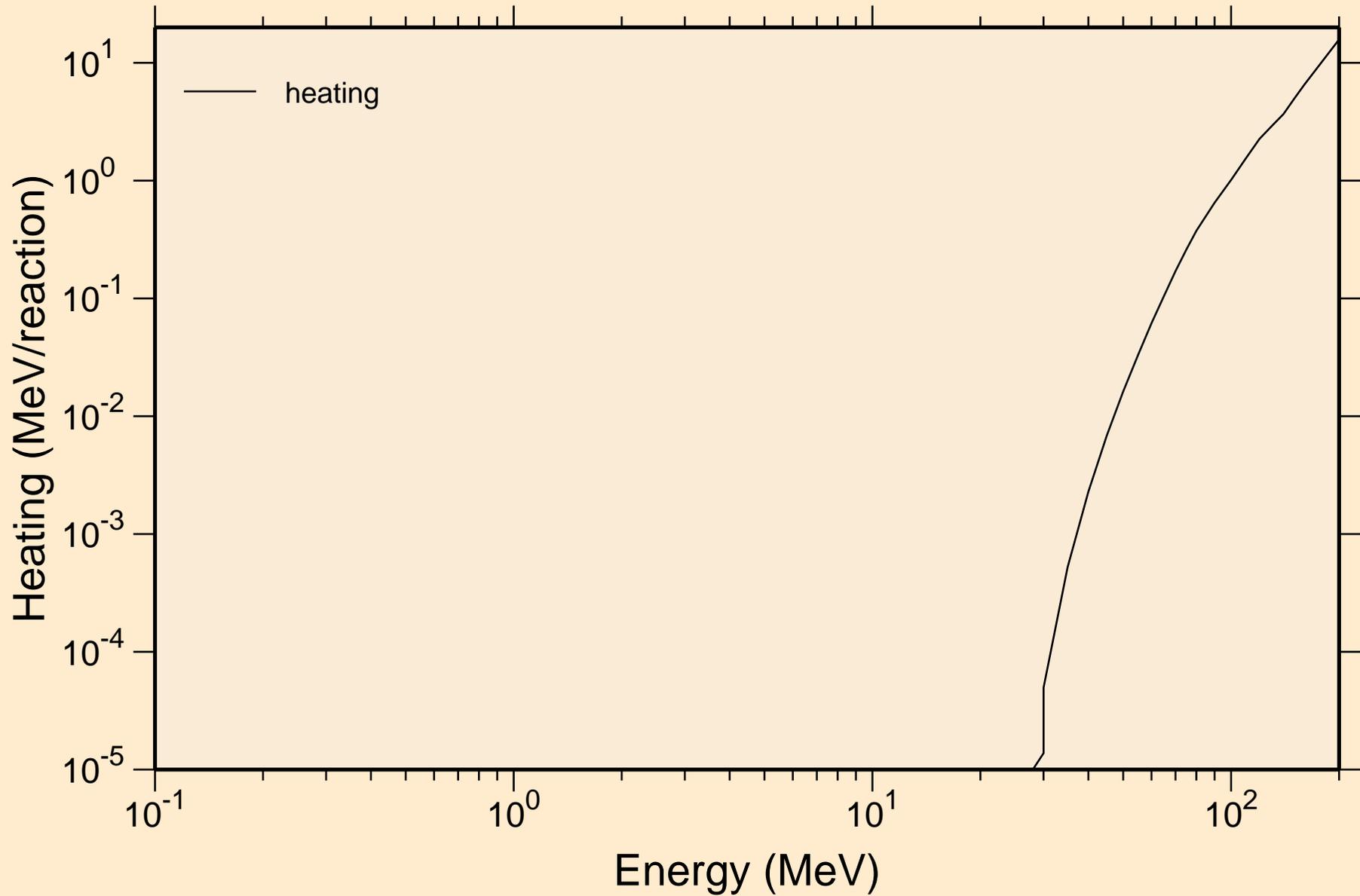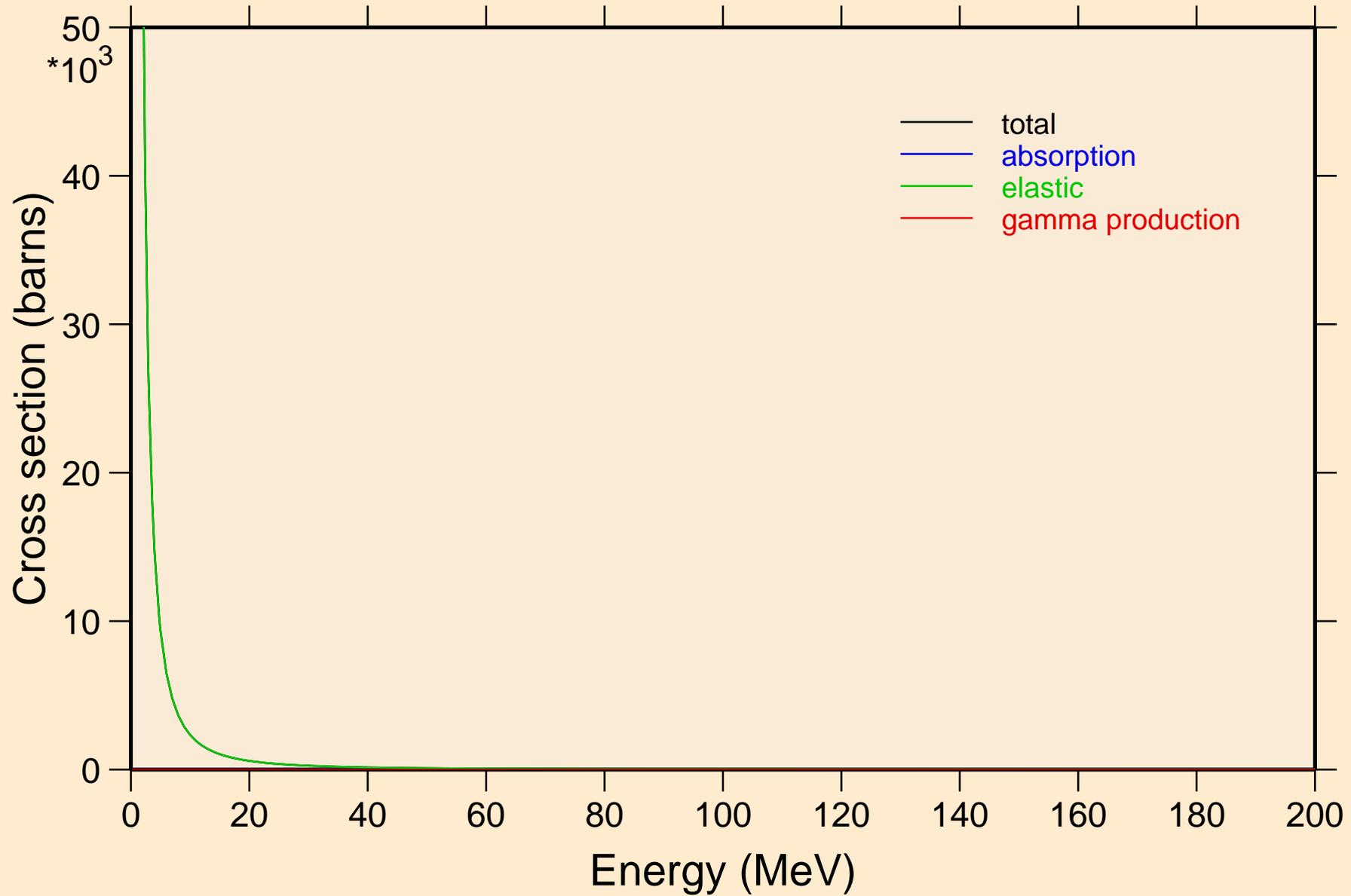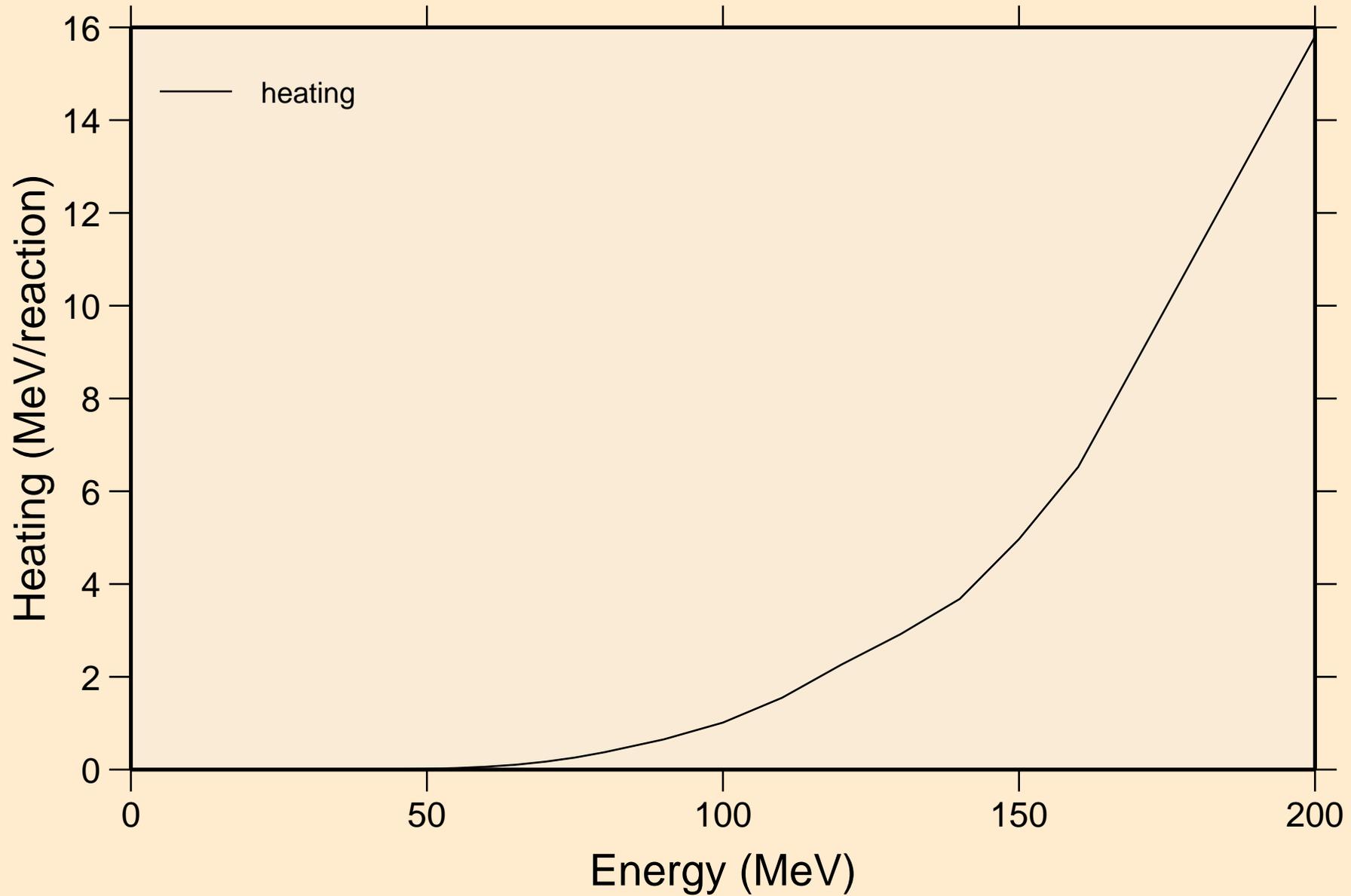heating

Heating (MeV/reaction)

Energy (MeV)

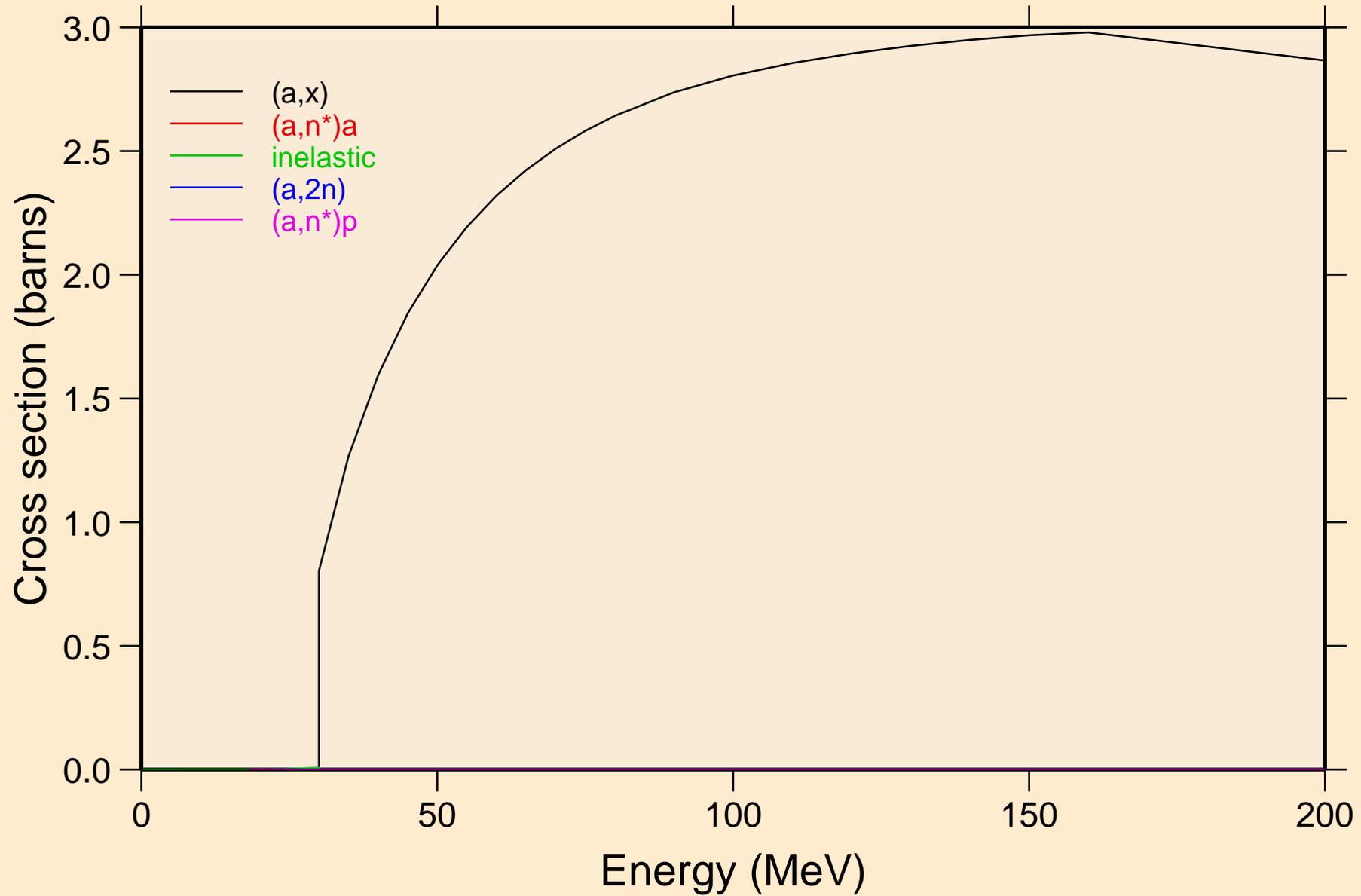CM237 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Principal cross sections

CM237 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Heating

CM237 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Threshold reactions

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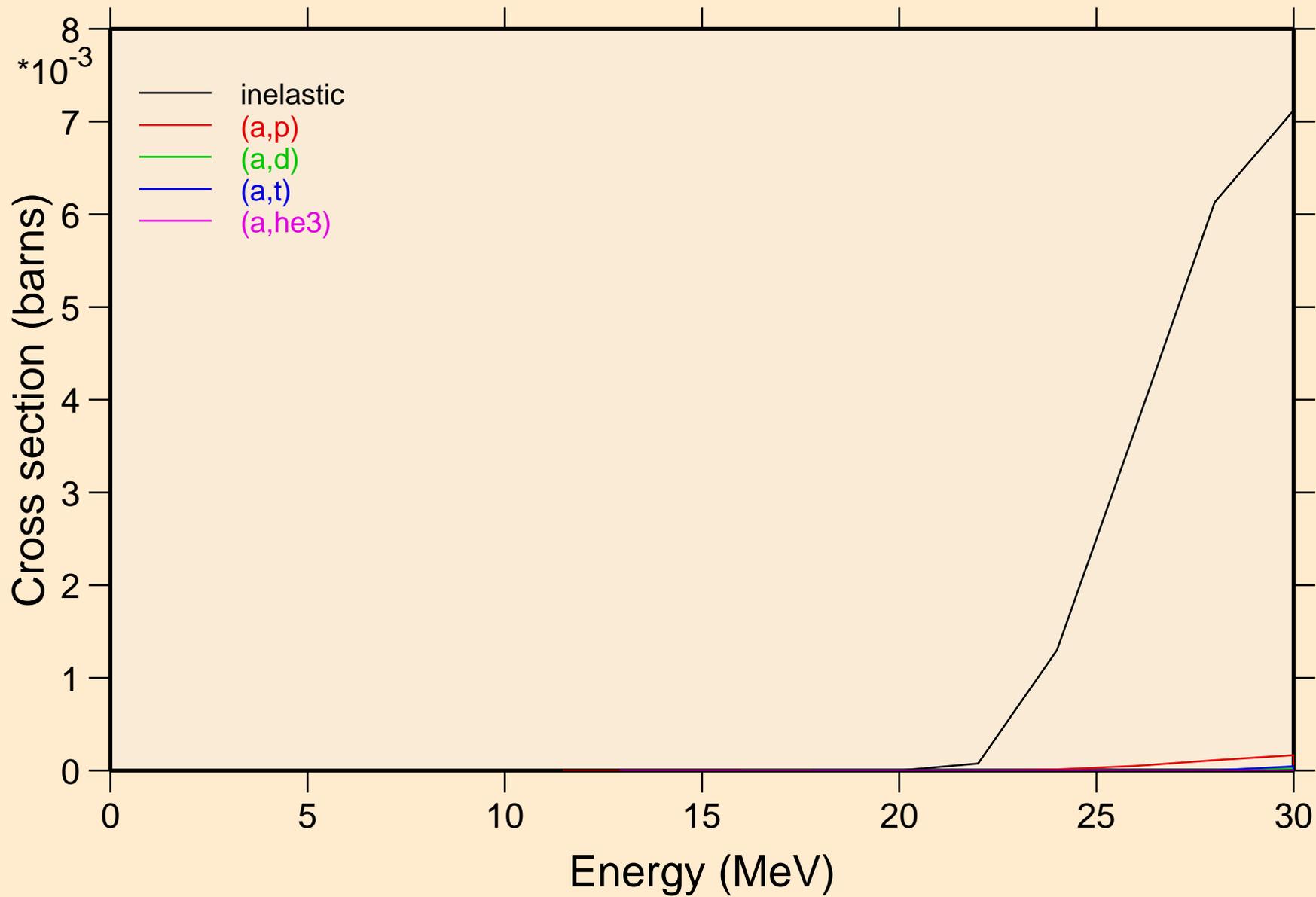- (a,n*)p — magenta

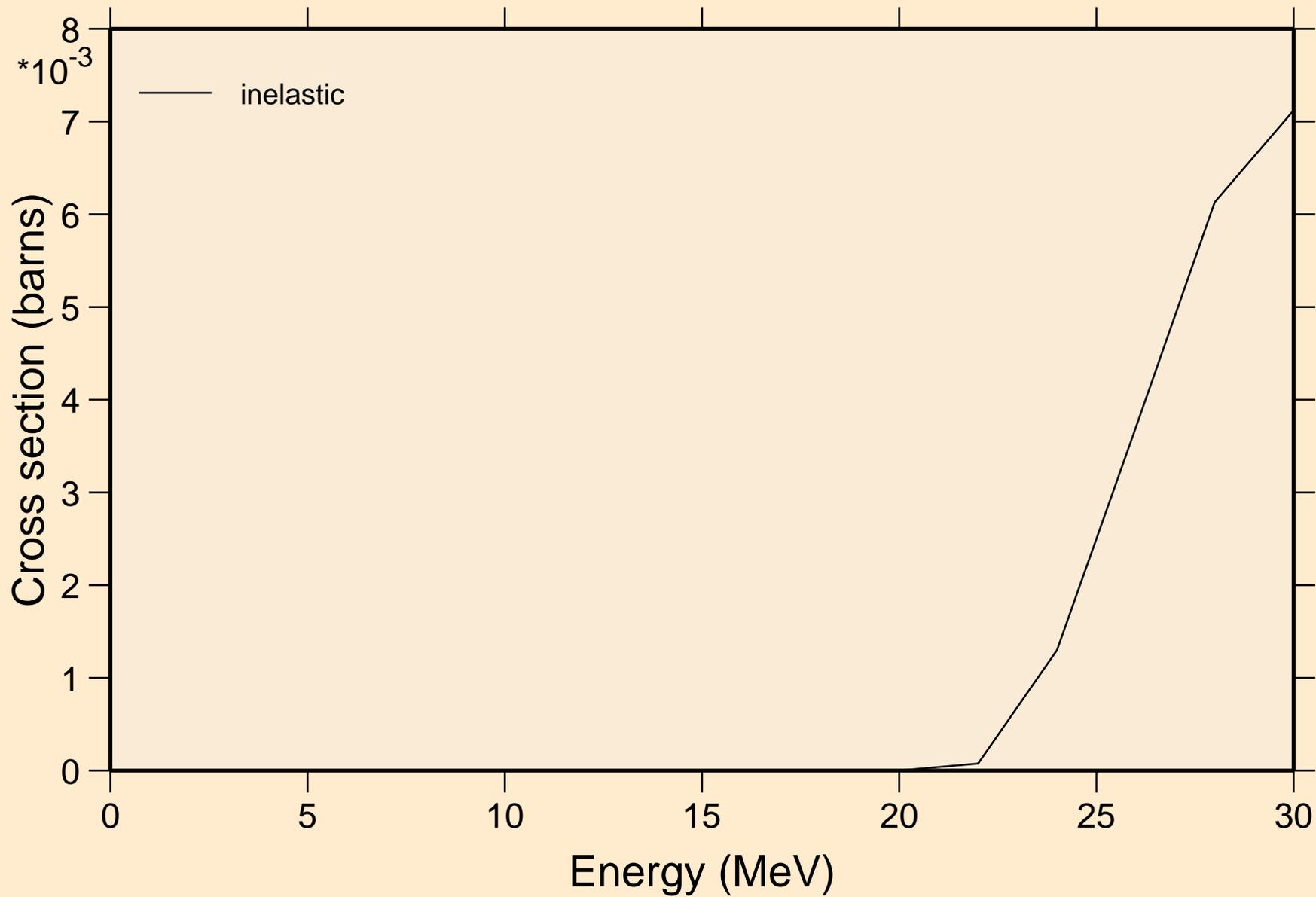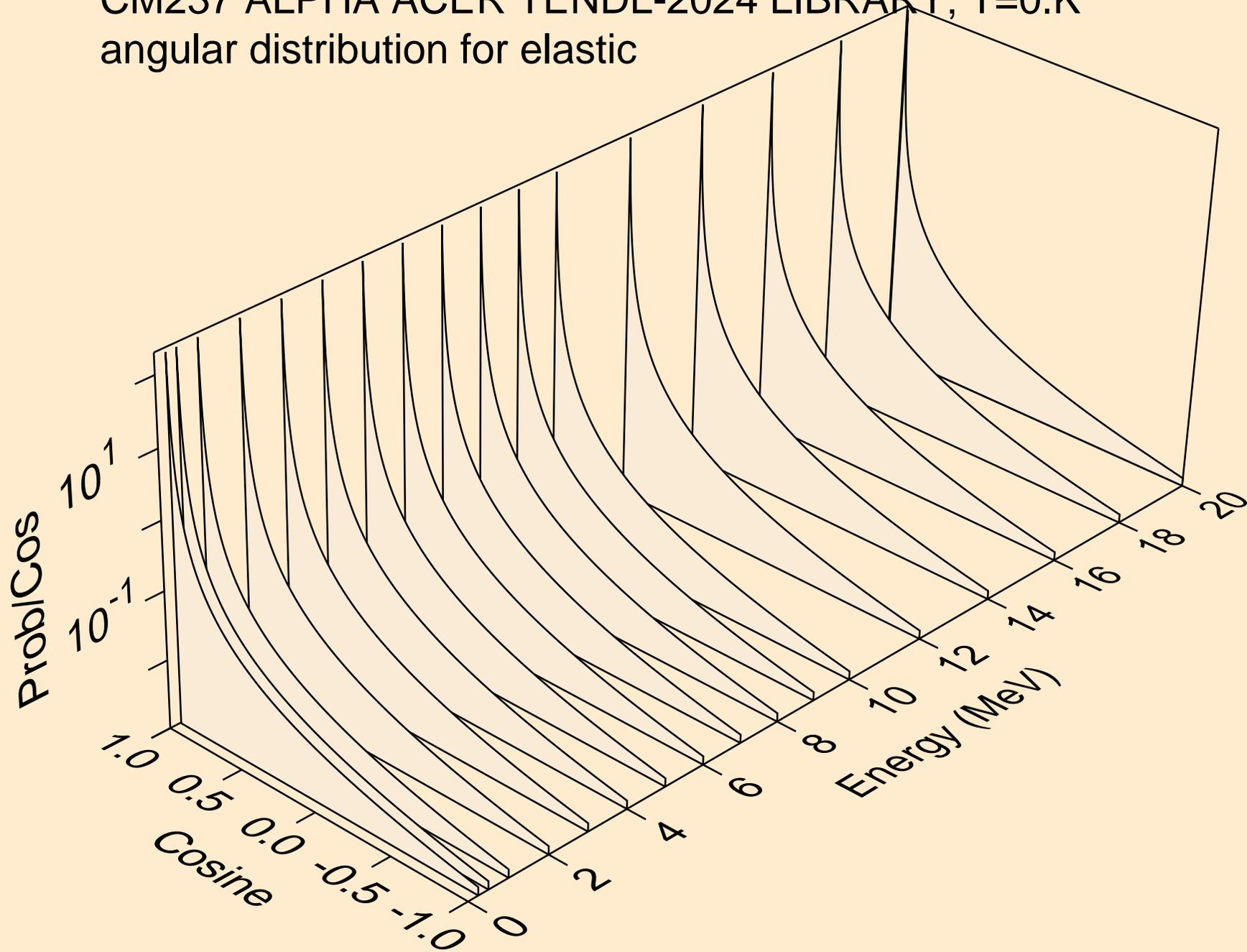Cross section (barns) vs Energy (MeV)

CM237 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
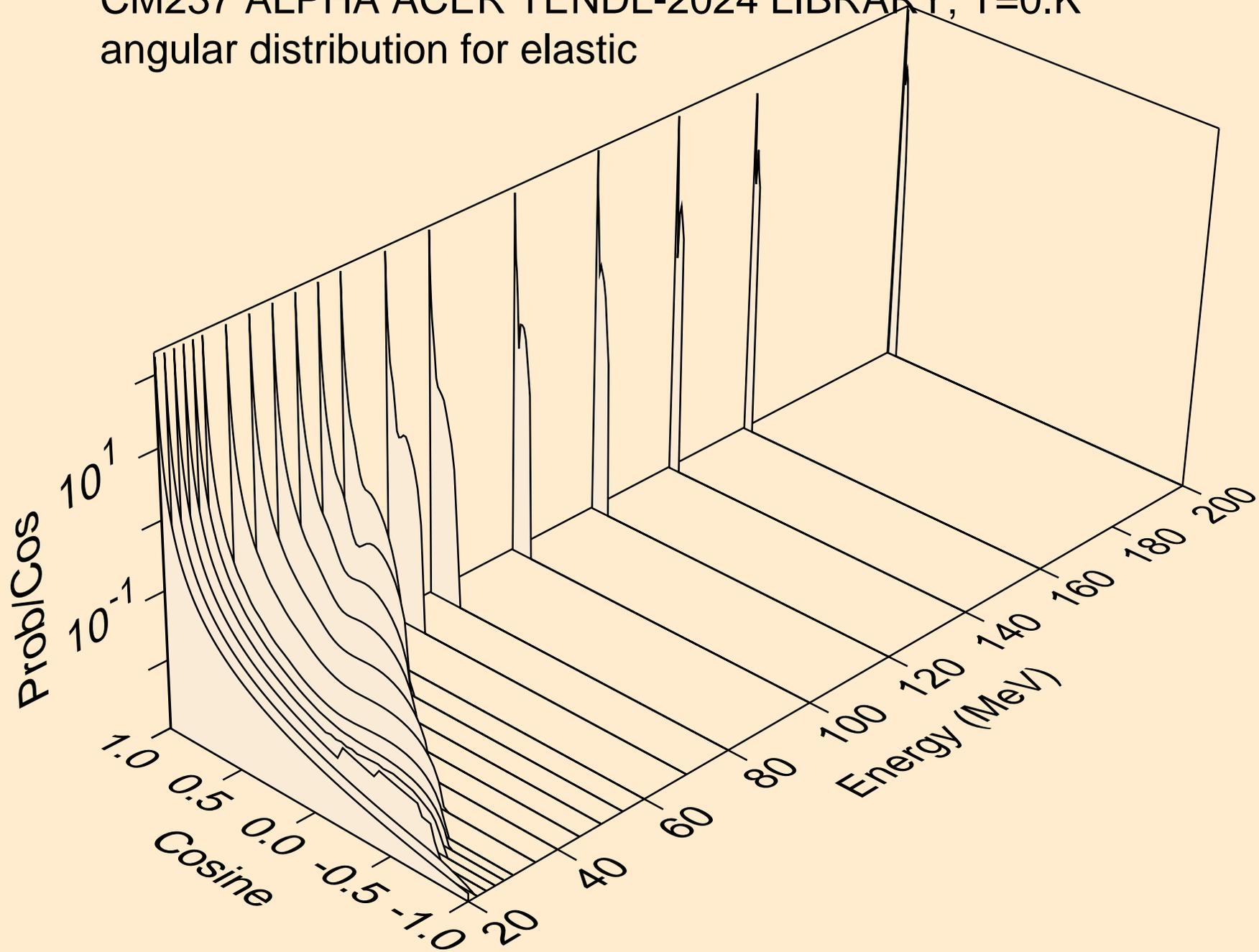Threshold reactions

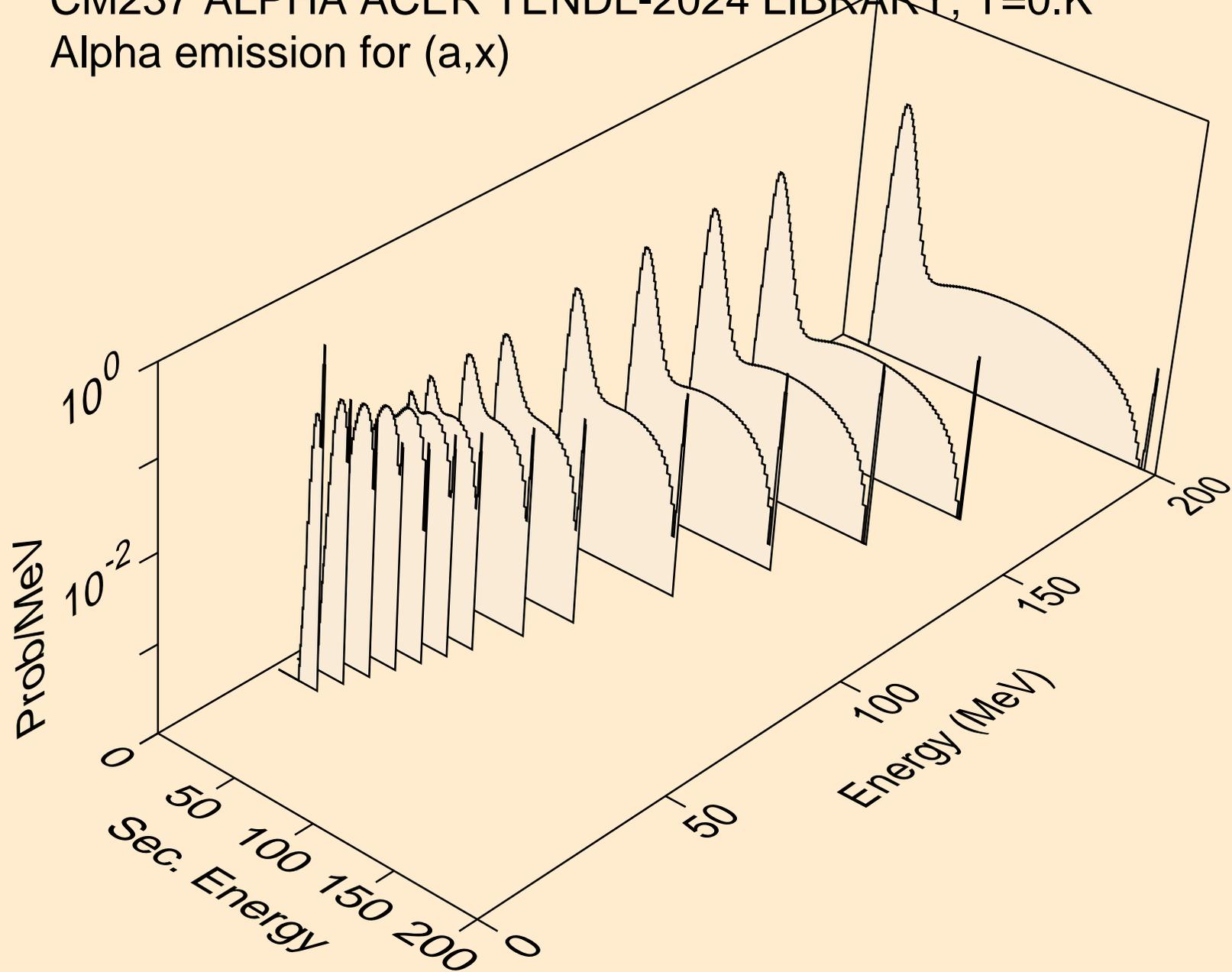CM237 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Threshold reactions

CM237 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
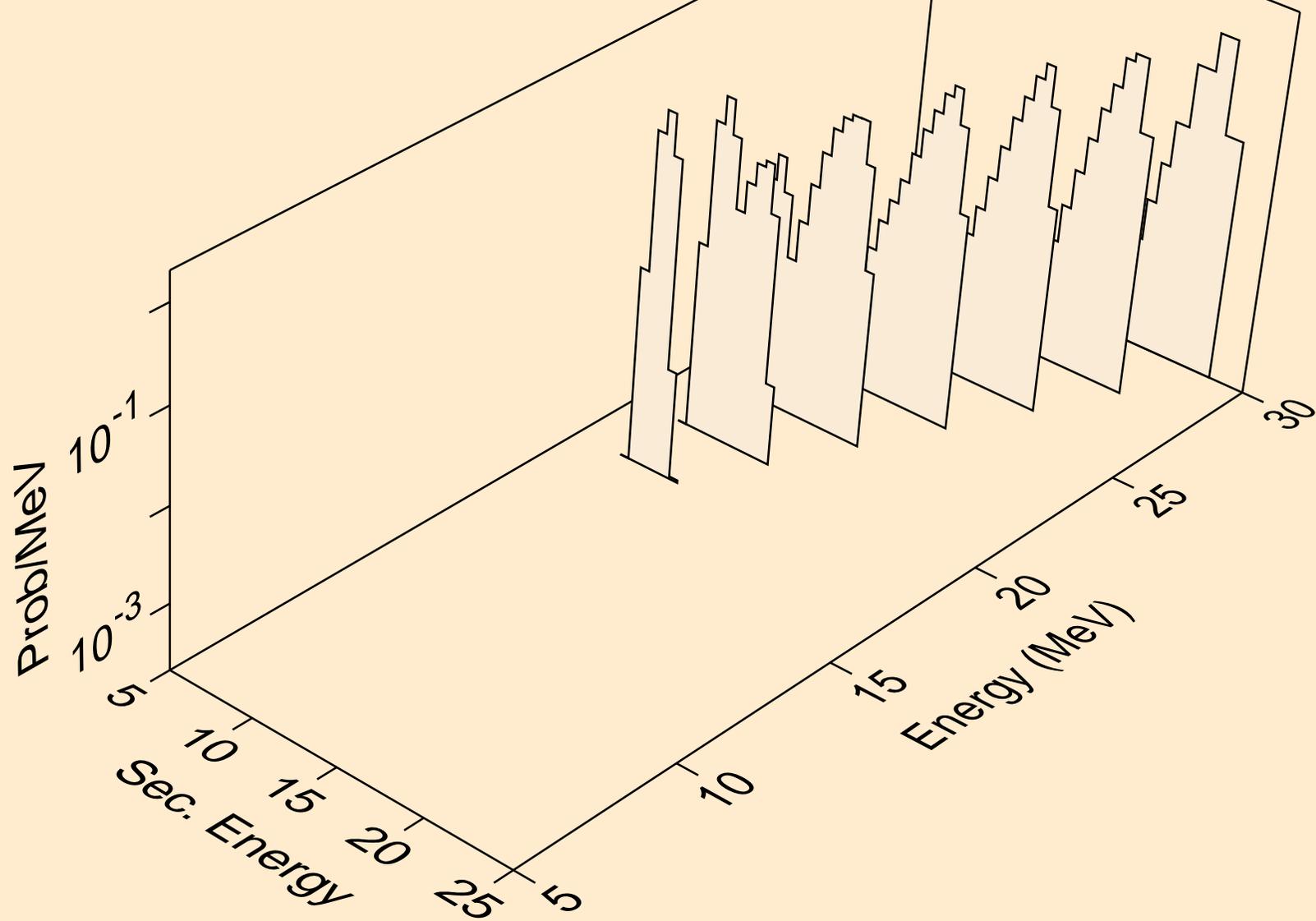angular distribution for elastic

CM237 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
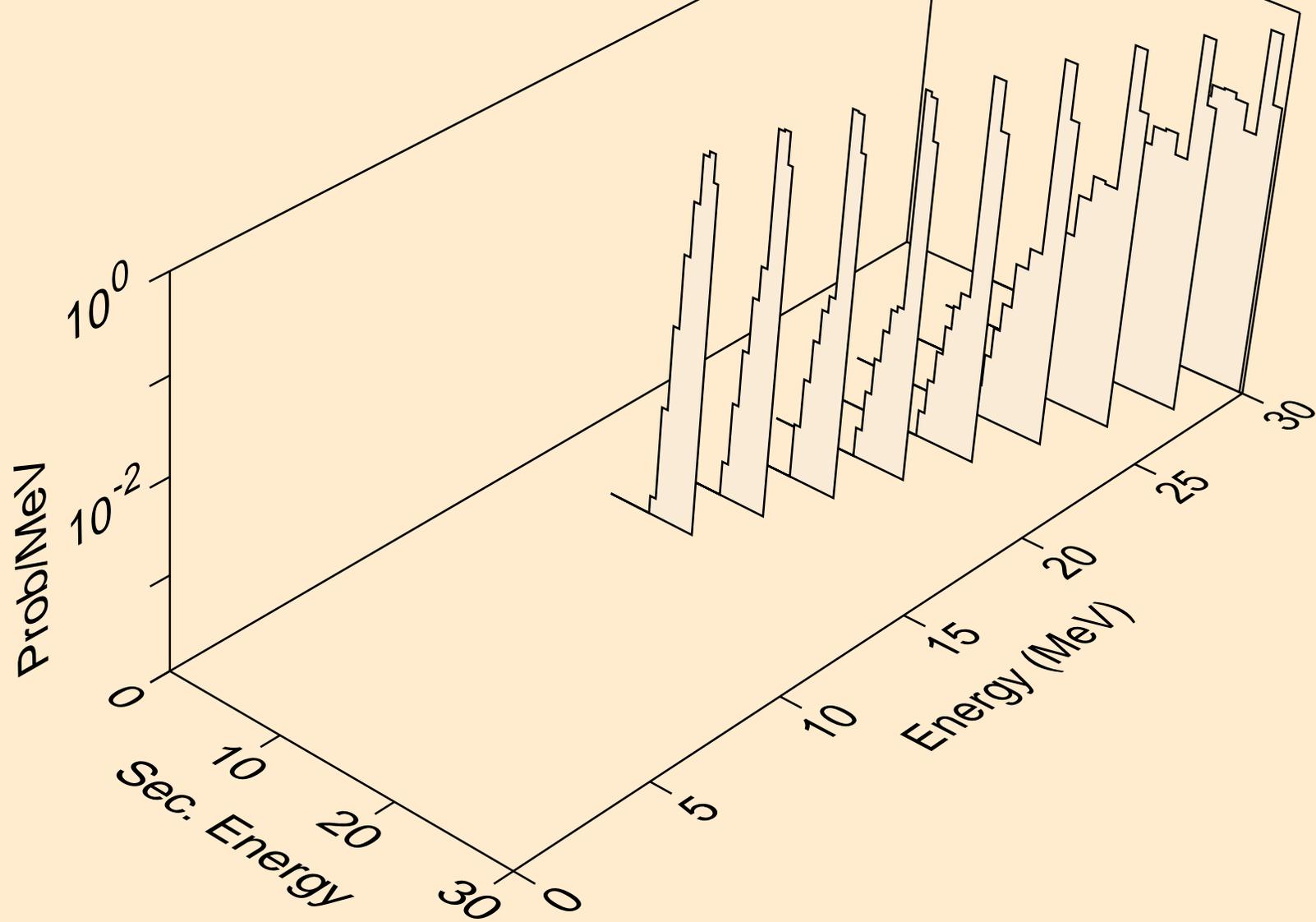angular distribution for elastic

CM237 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
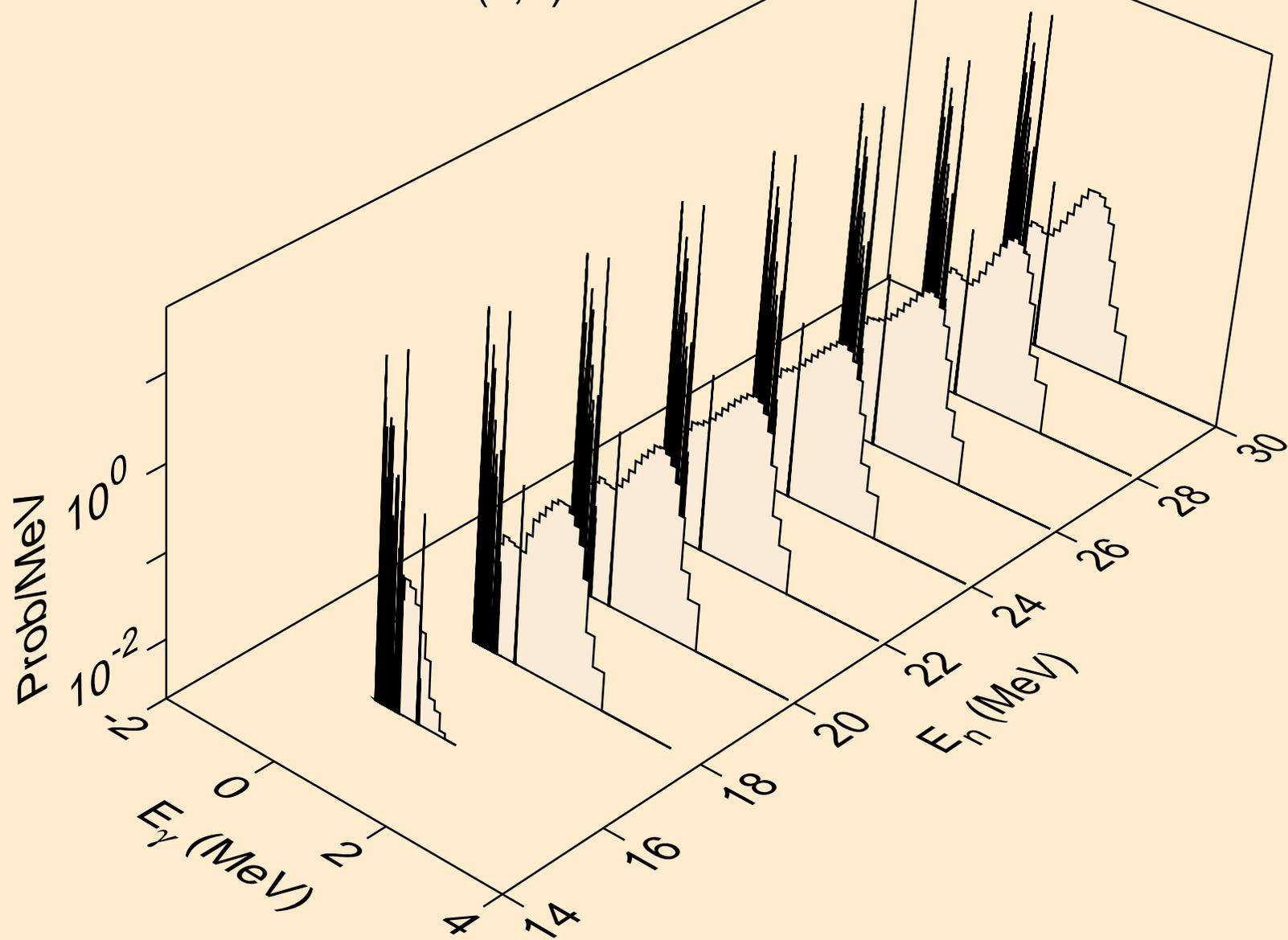Alpha emission for (a,x)

CM237 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
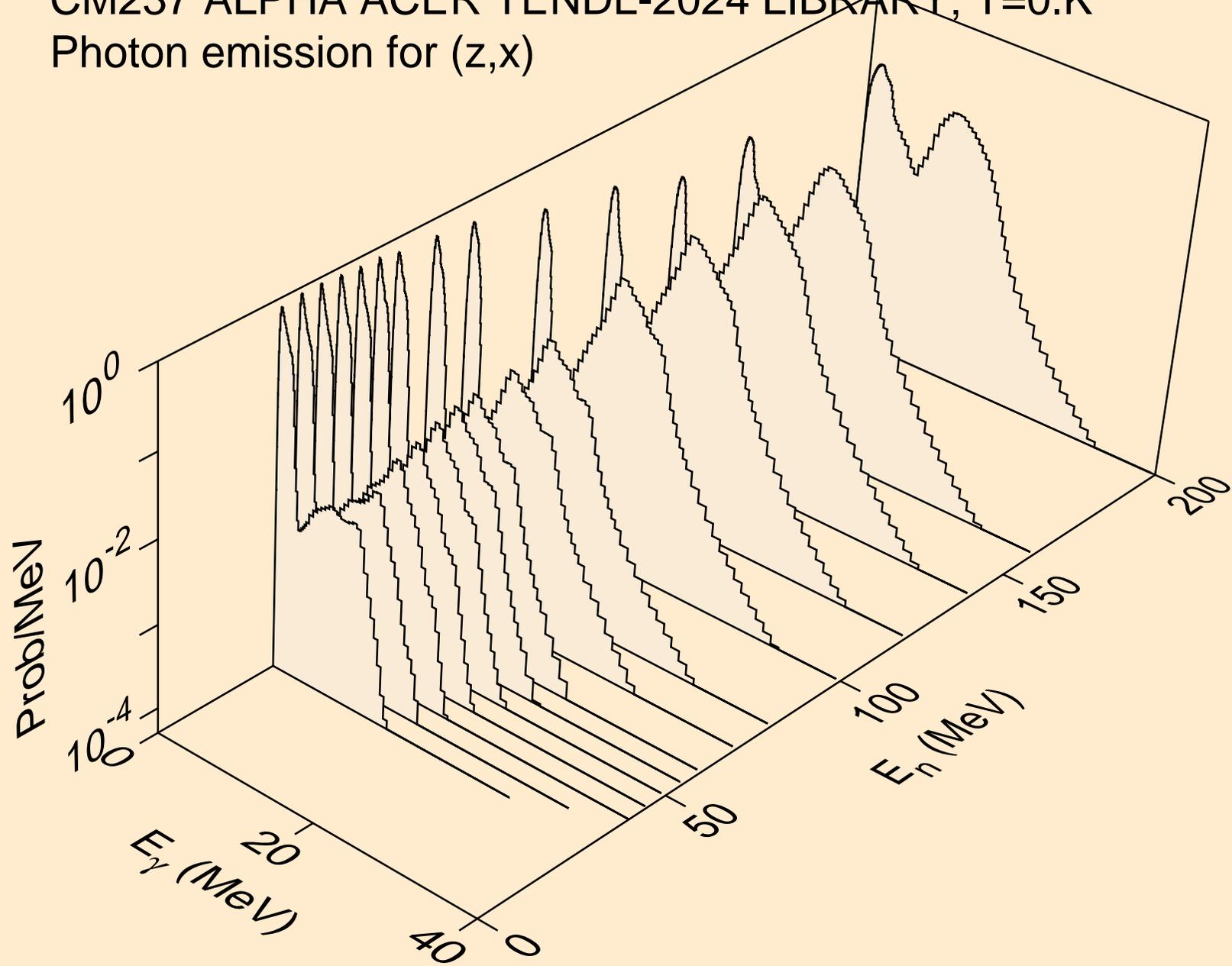Alpha emission for (a,n*)a

CM237 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
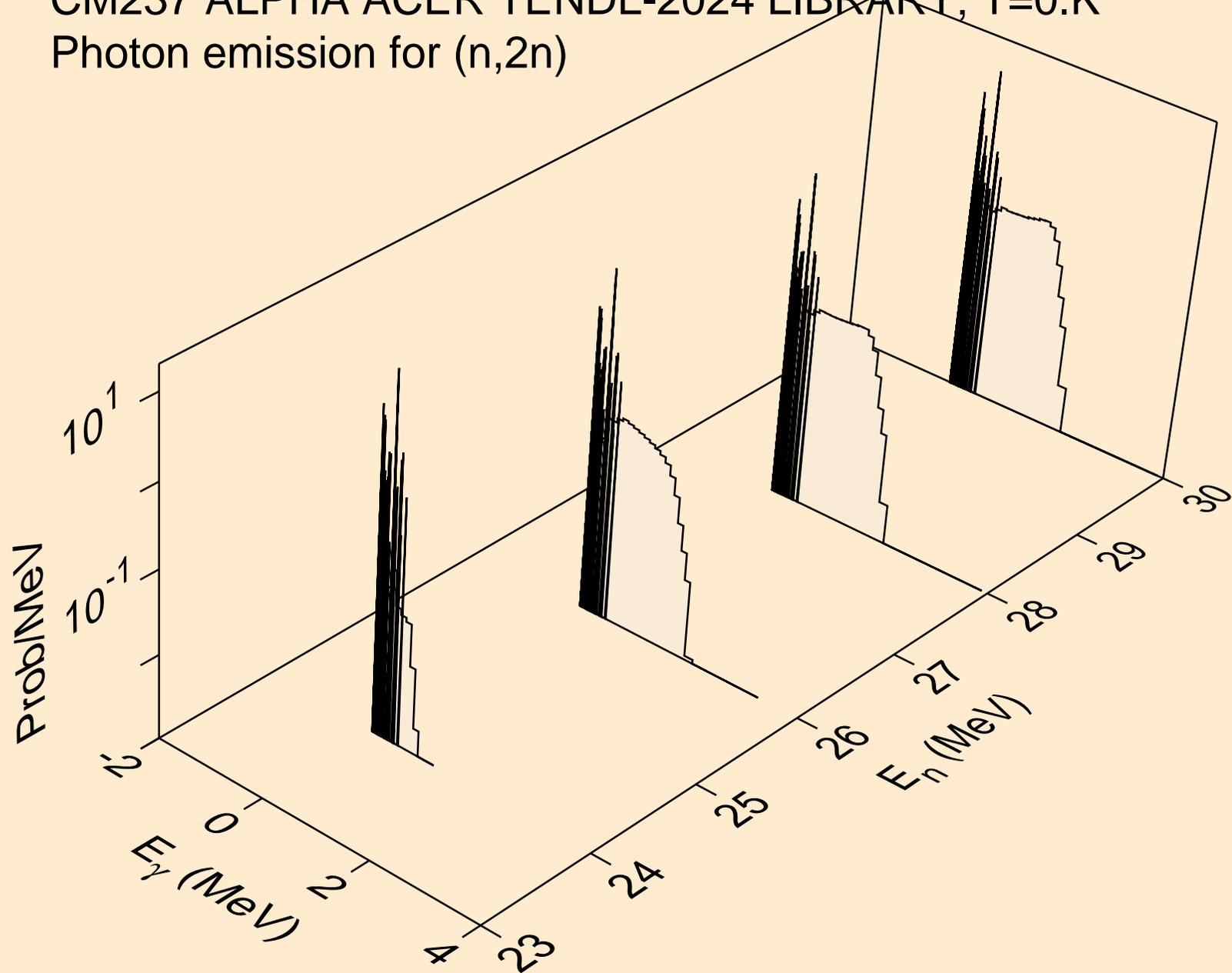Alpha emission for inelastic

CM237 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
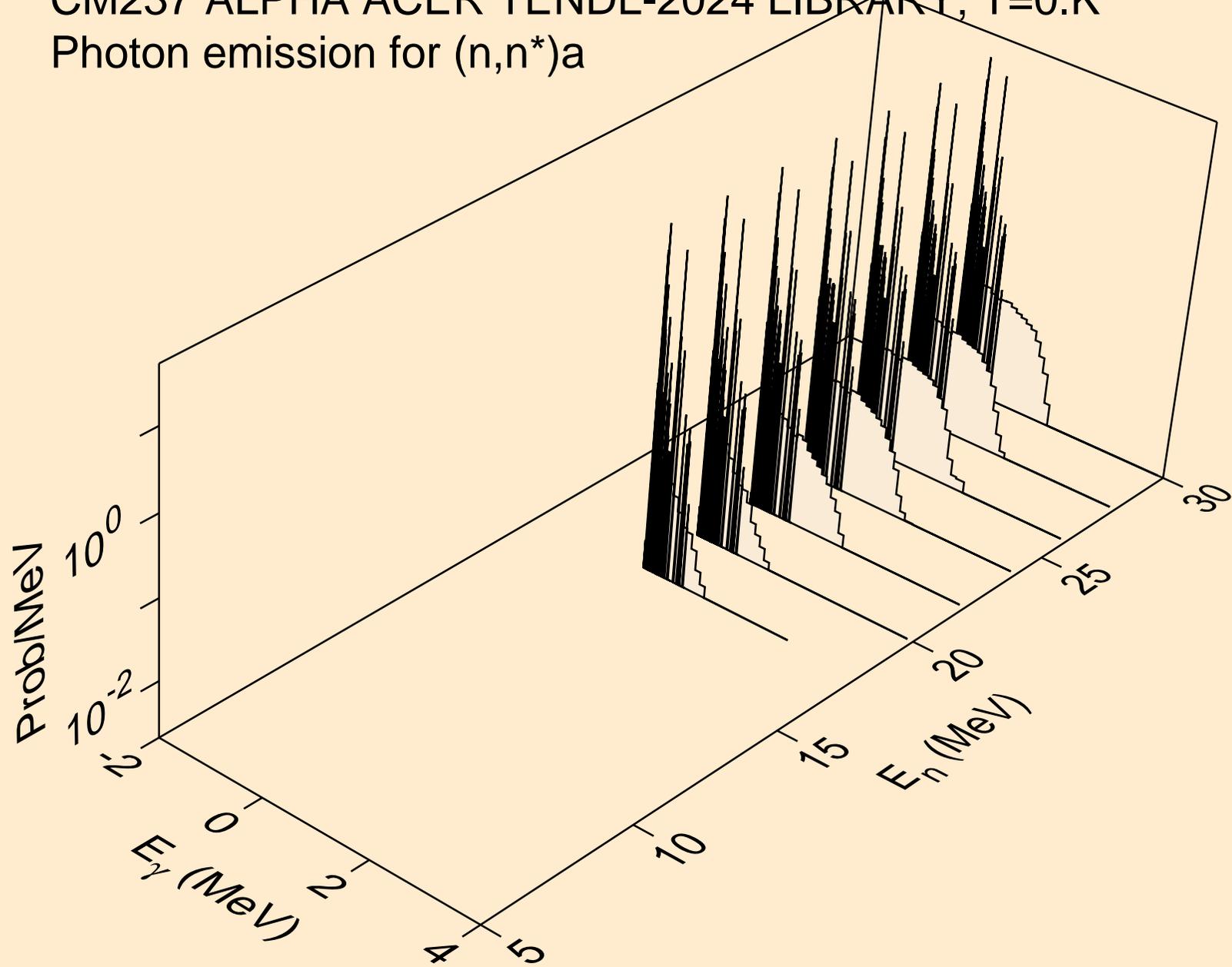Photon emission for (z,n)

CM237 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
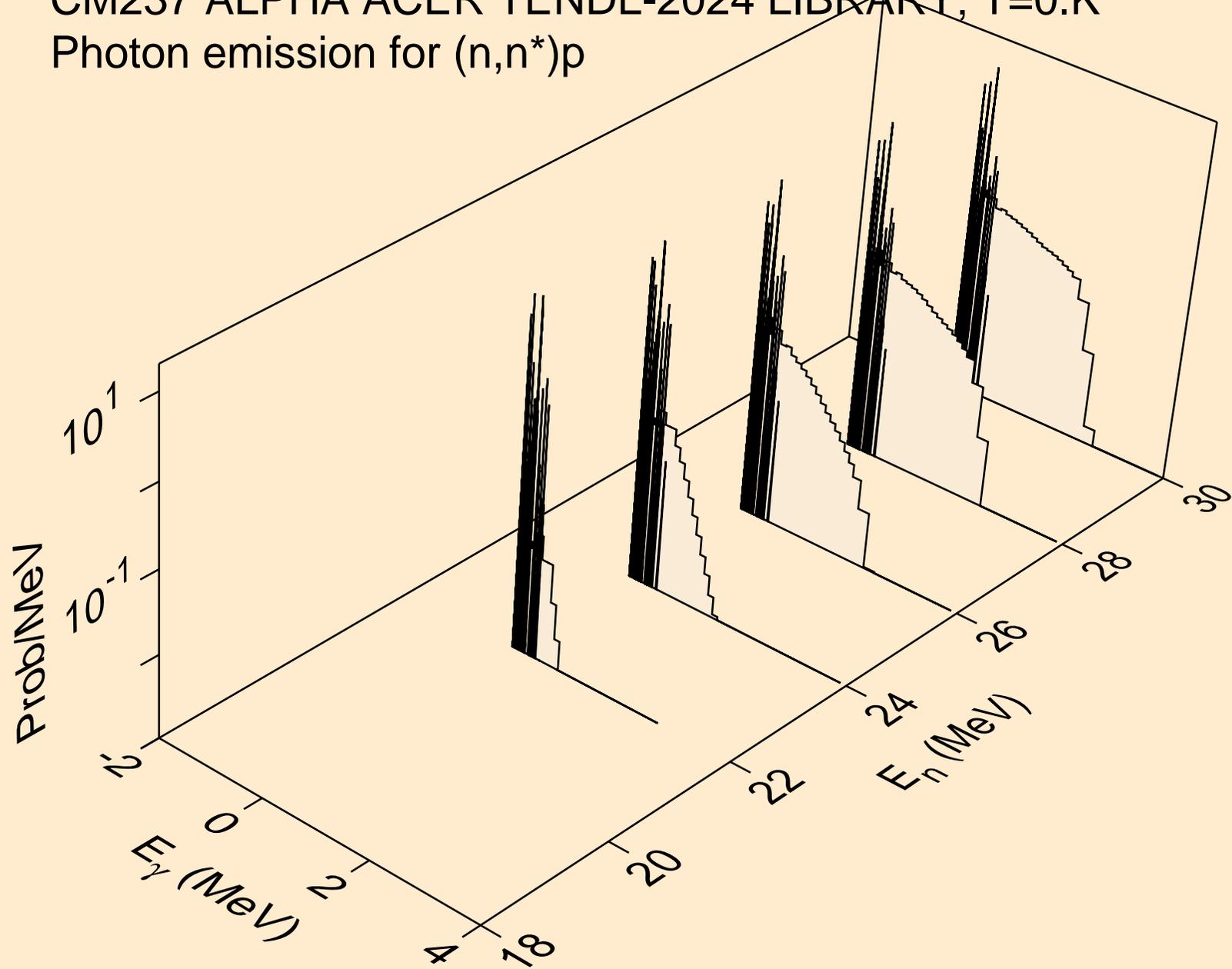Photon emission for (z,x)

CM237 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,2n)

CM237 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,n*)a

CM237 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,n*)p

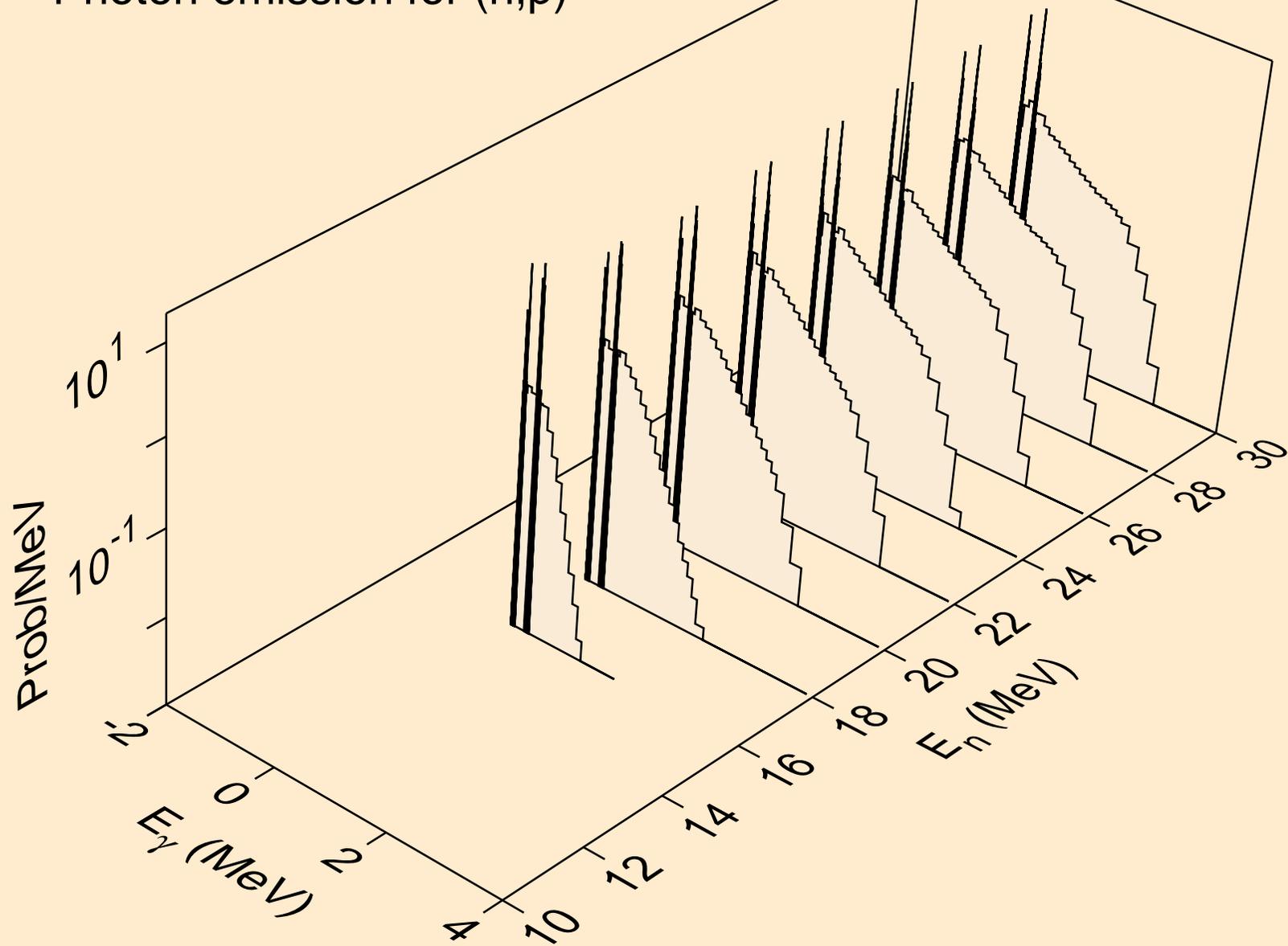CM237 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,p)

CM237 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
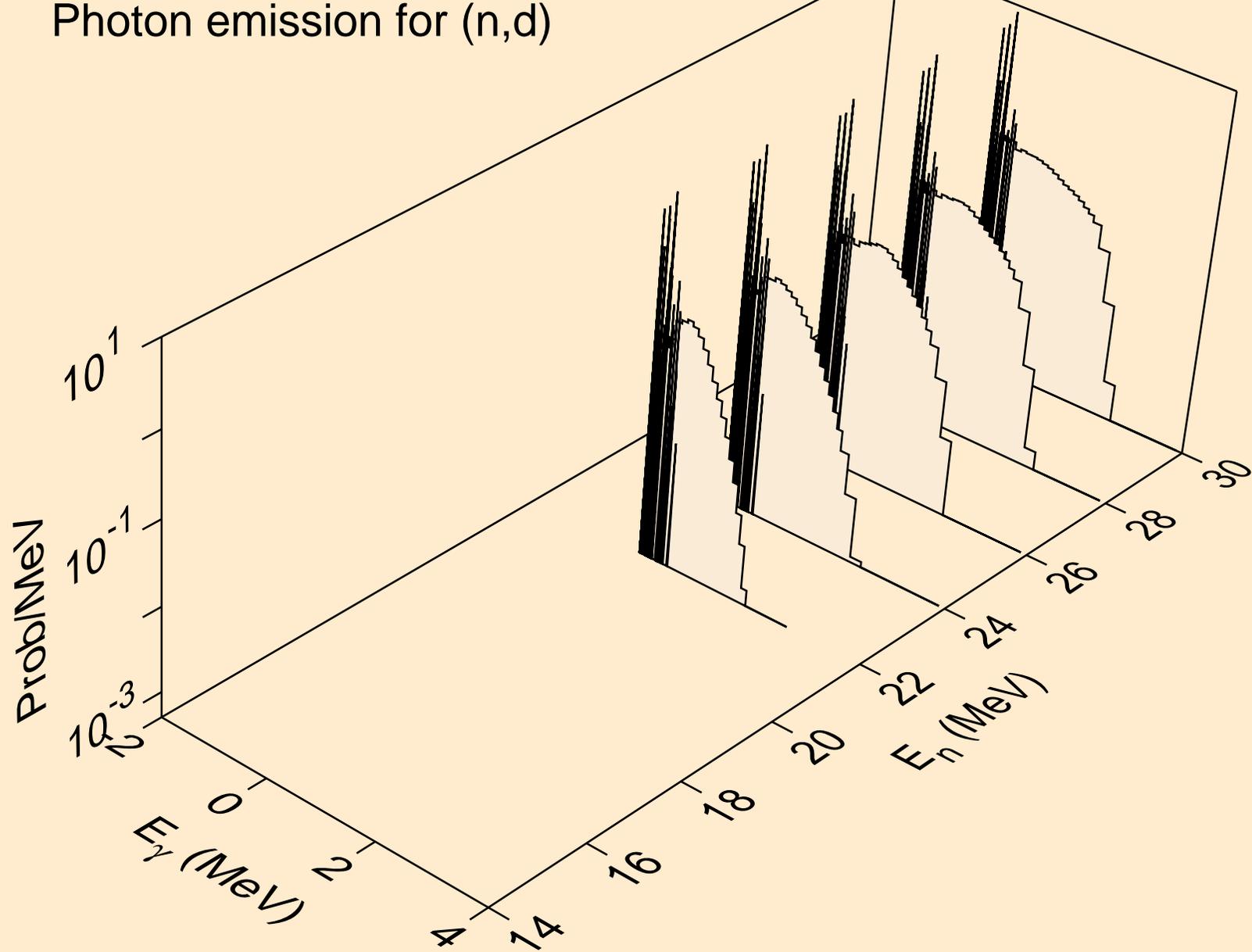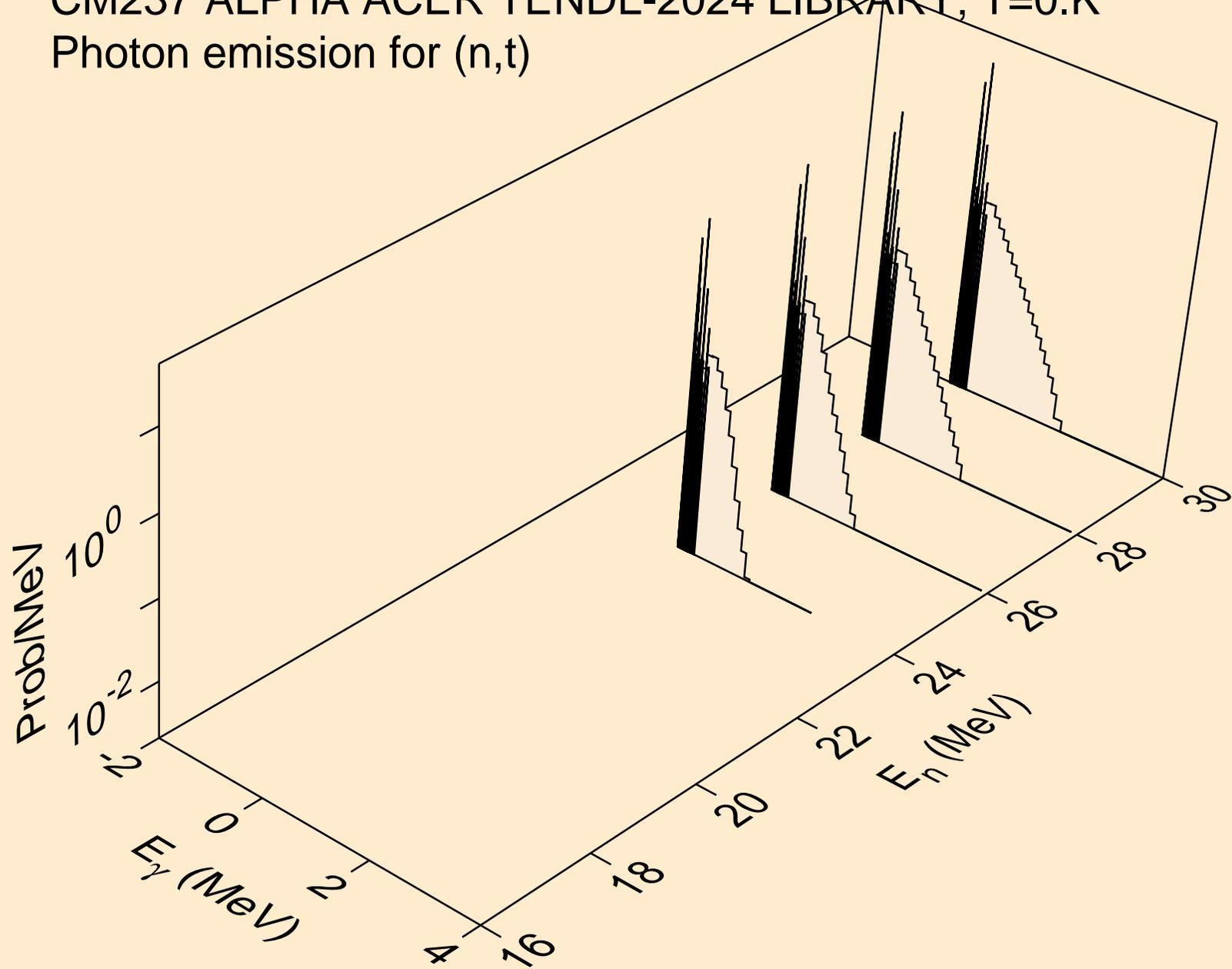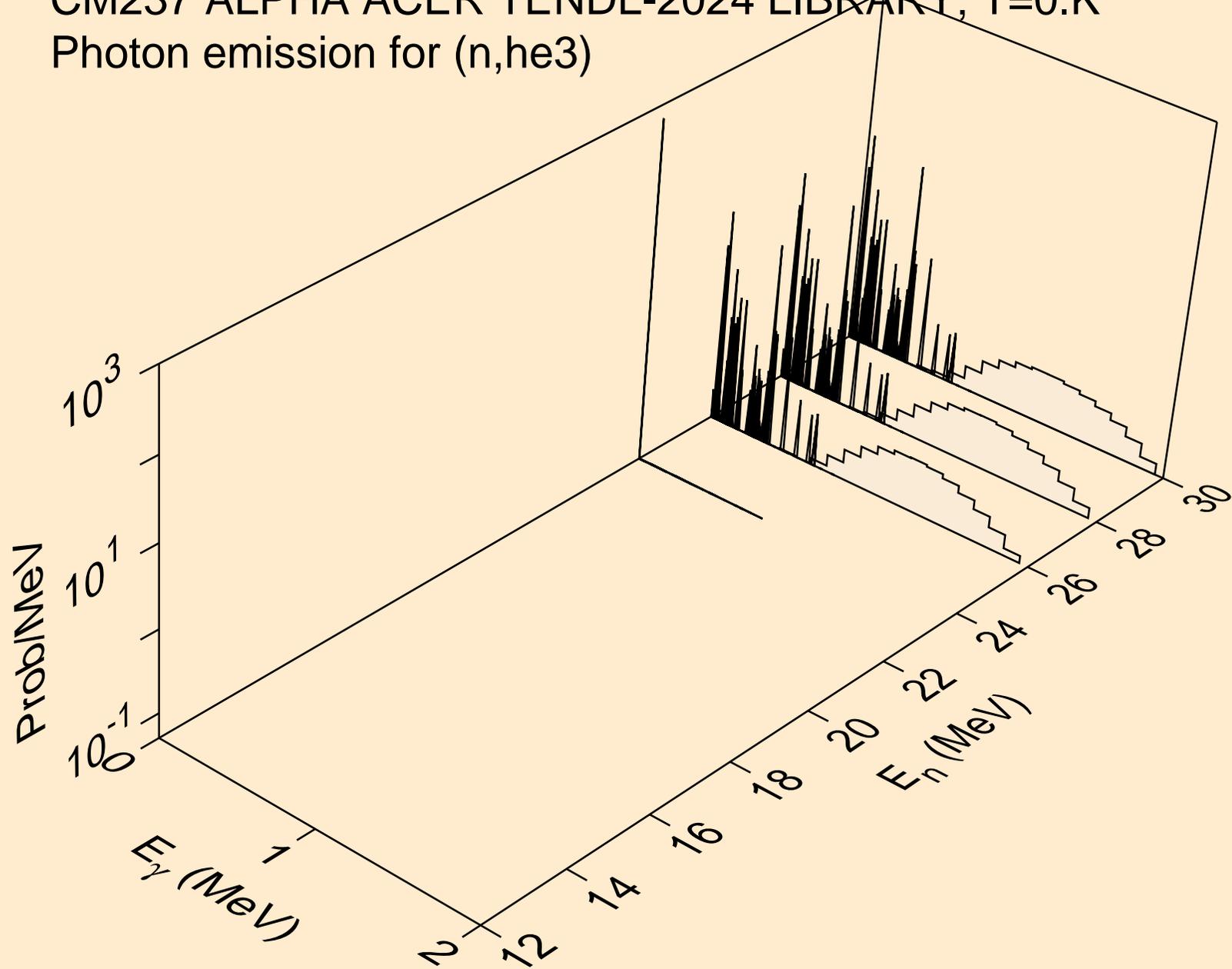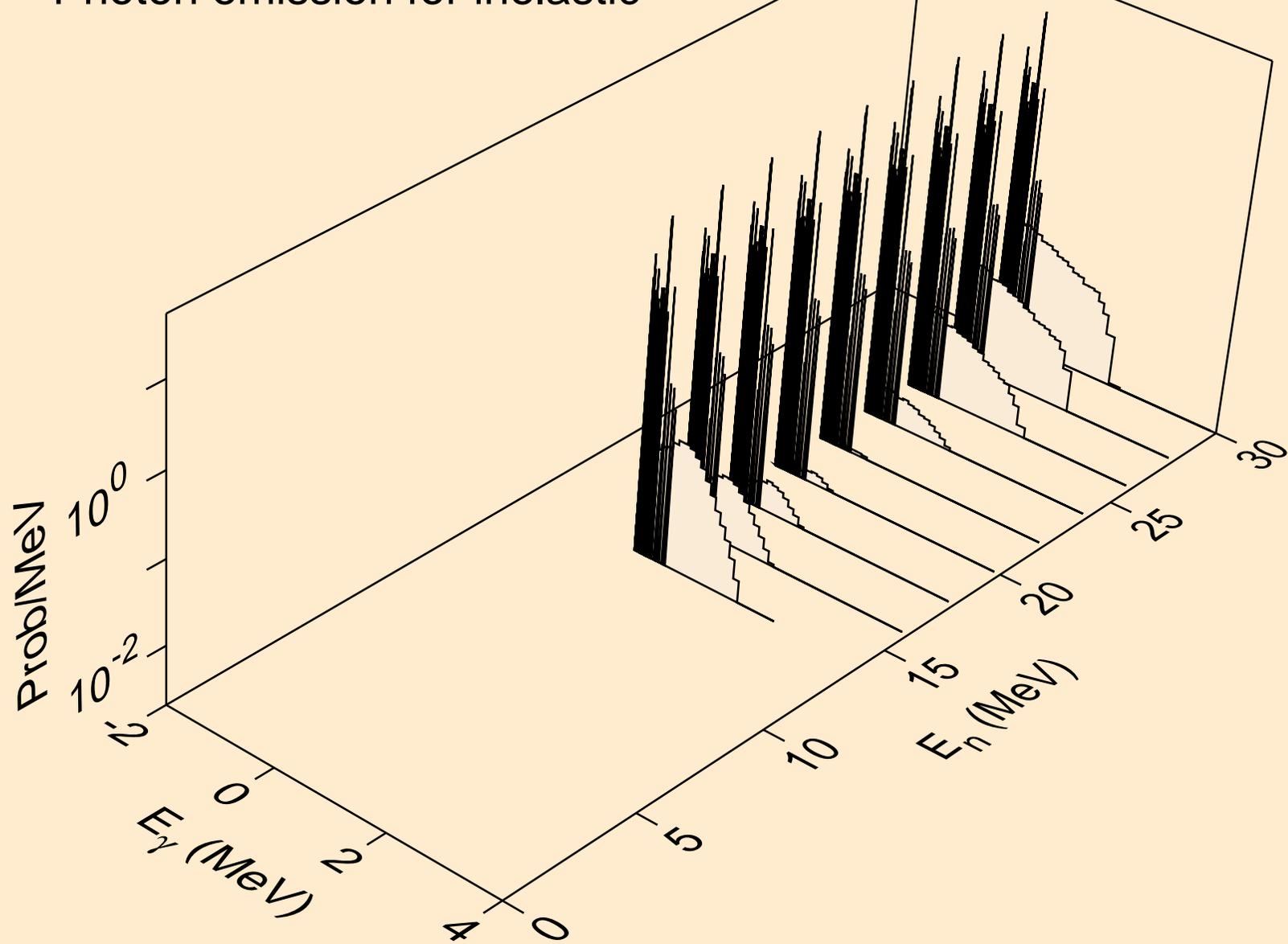Photon emission for (n,d)

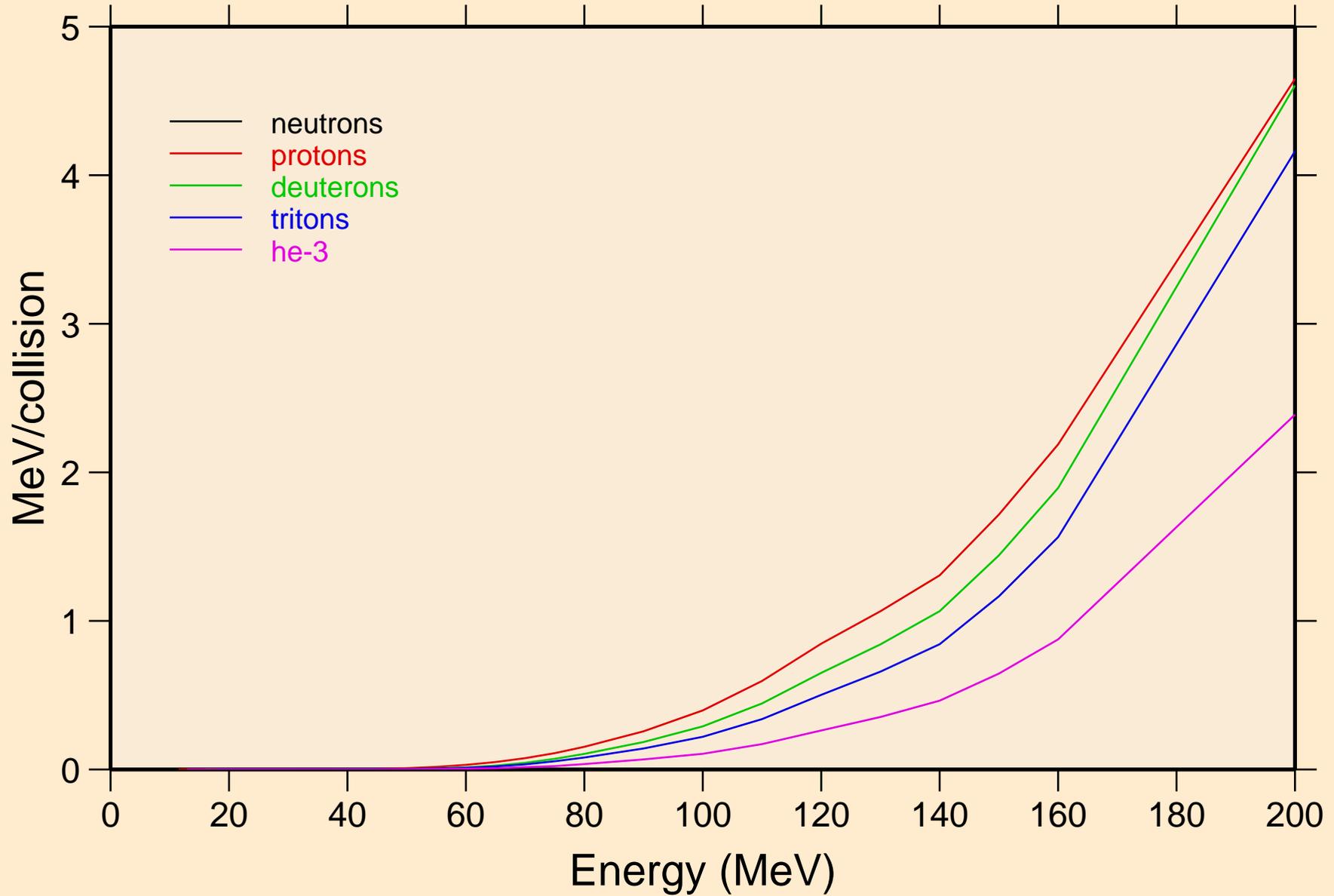CM237 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,t)

CM237 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,he3)

CM237 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for inelastic
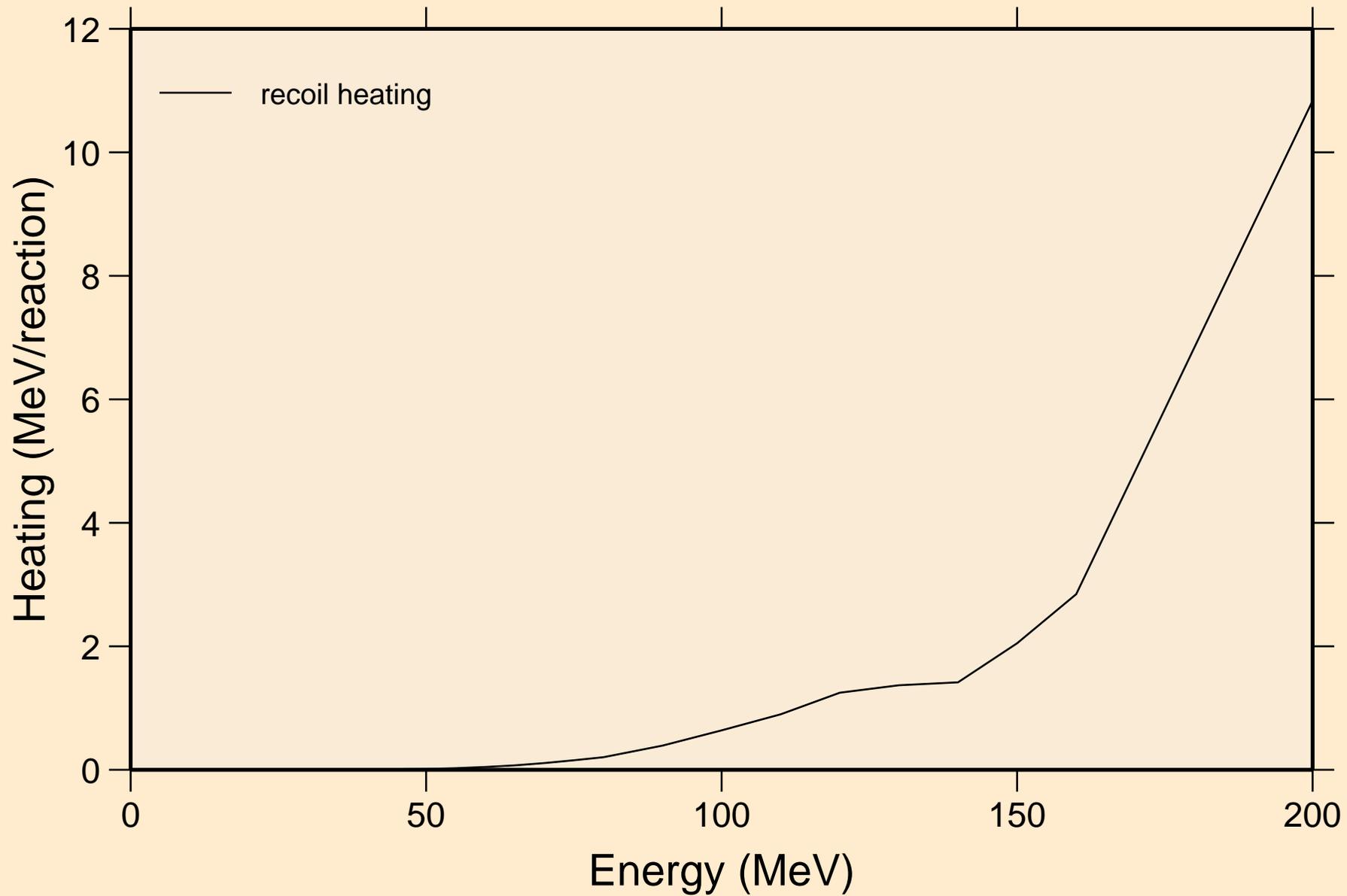
Prob/MeV

10^0

10^{-2}

E_γ (MeV)

-2

0

2

4

E_n (MeV)

0

5

10

15

20

25

30

CM237 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
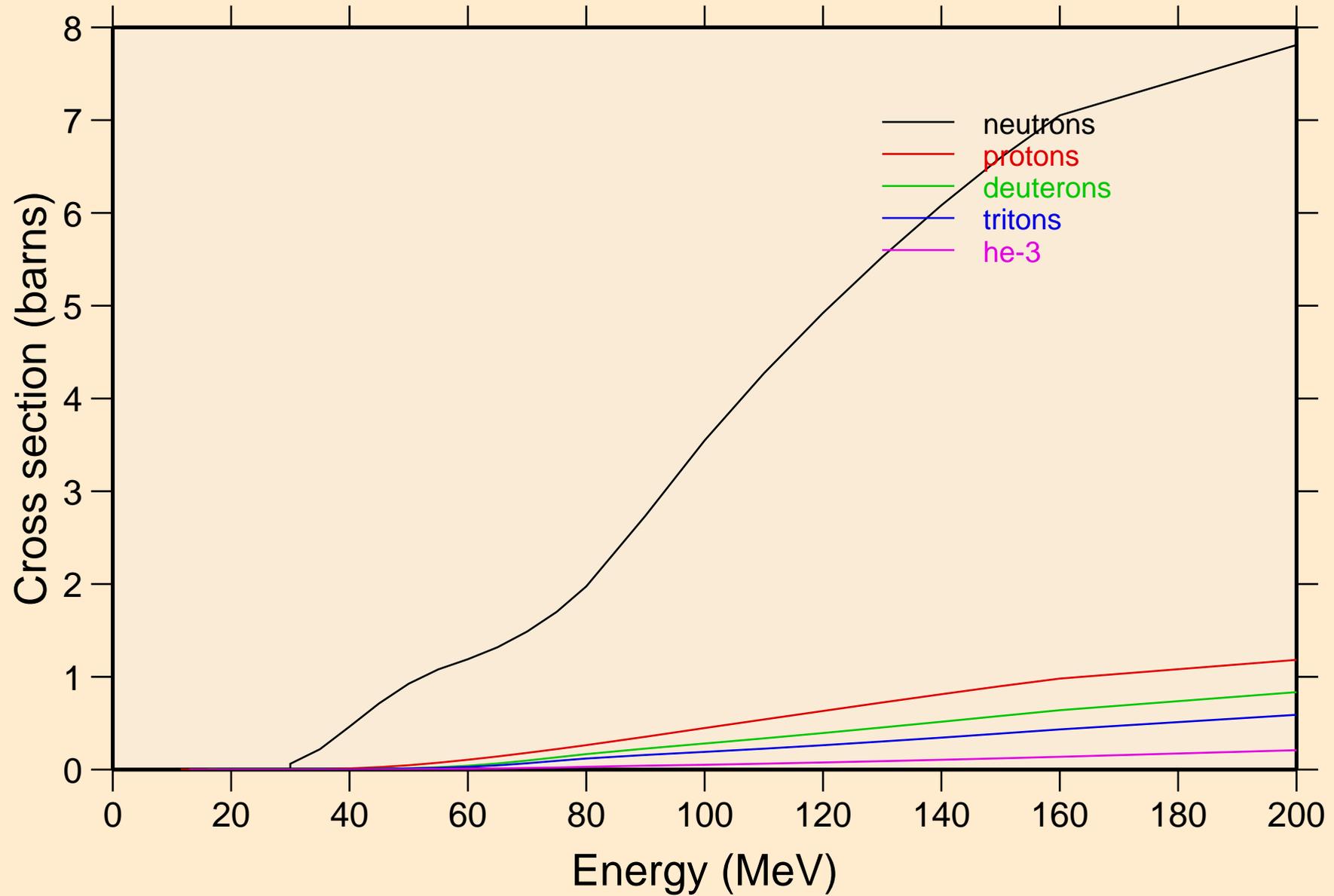Particle heating contributions
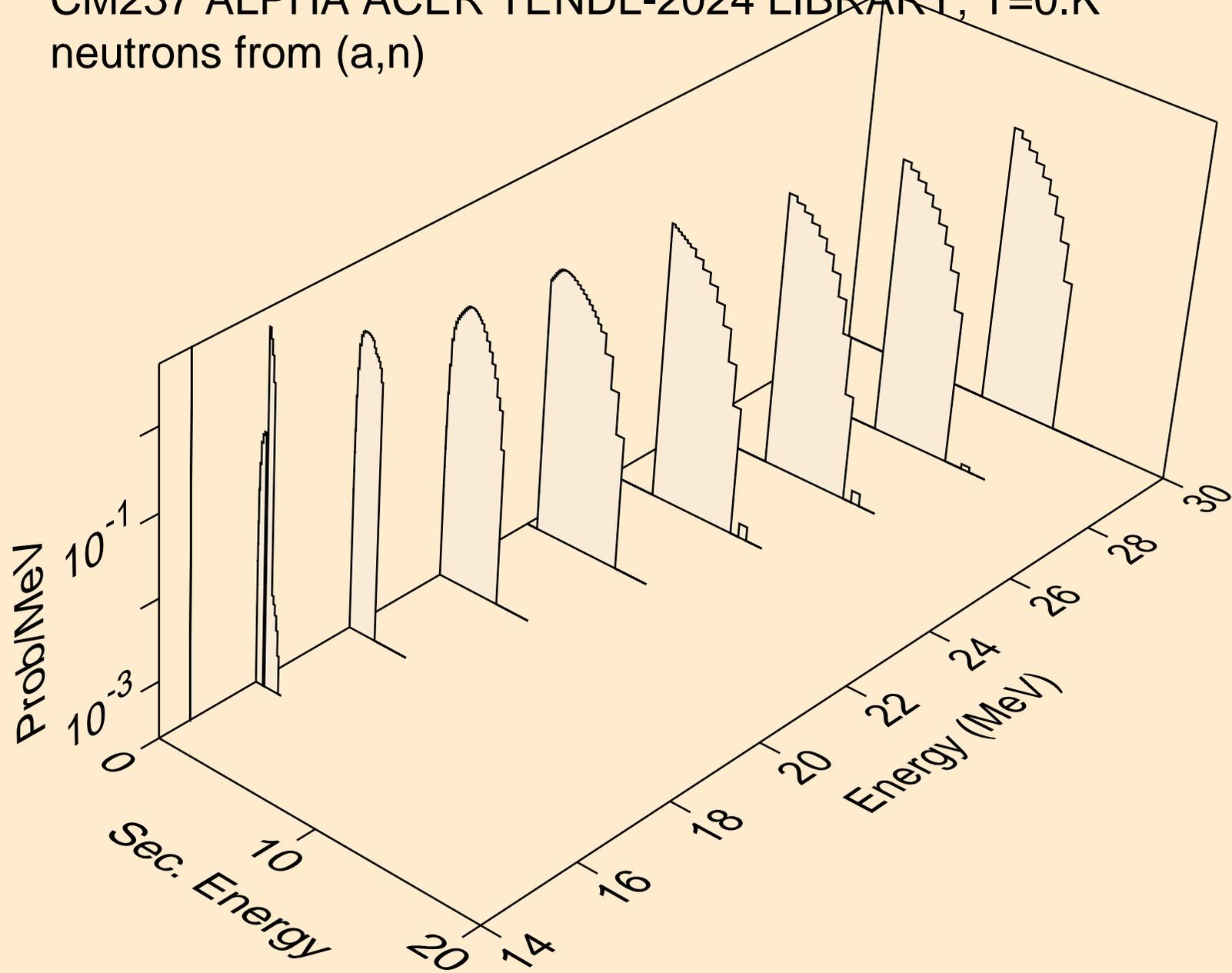
CM237 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Recoil Heating

CM237 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
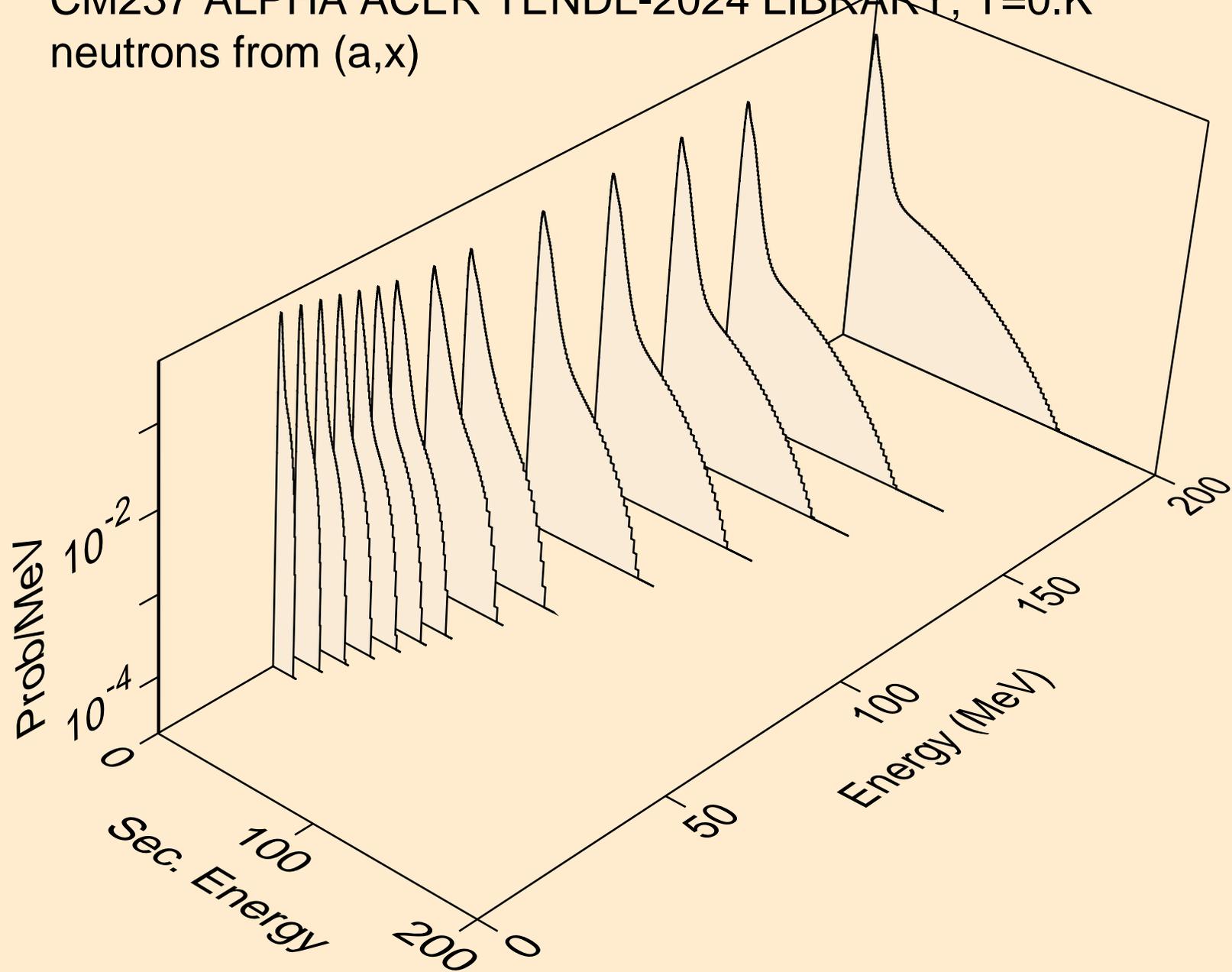Particle production cross sections

neutrons
protons
deuterons
tritons
he-3
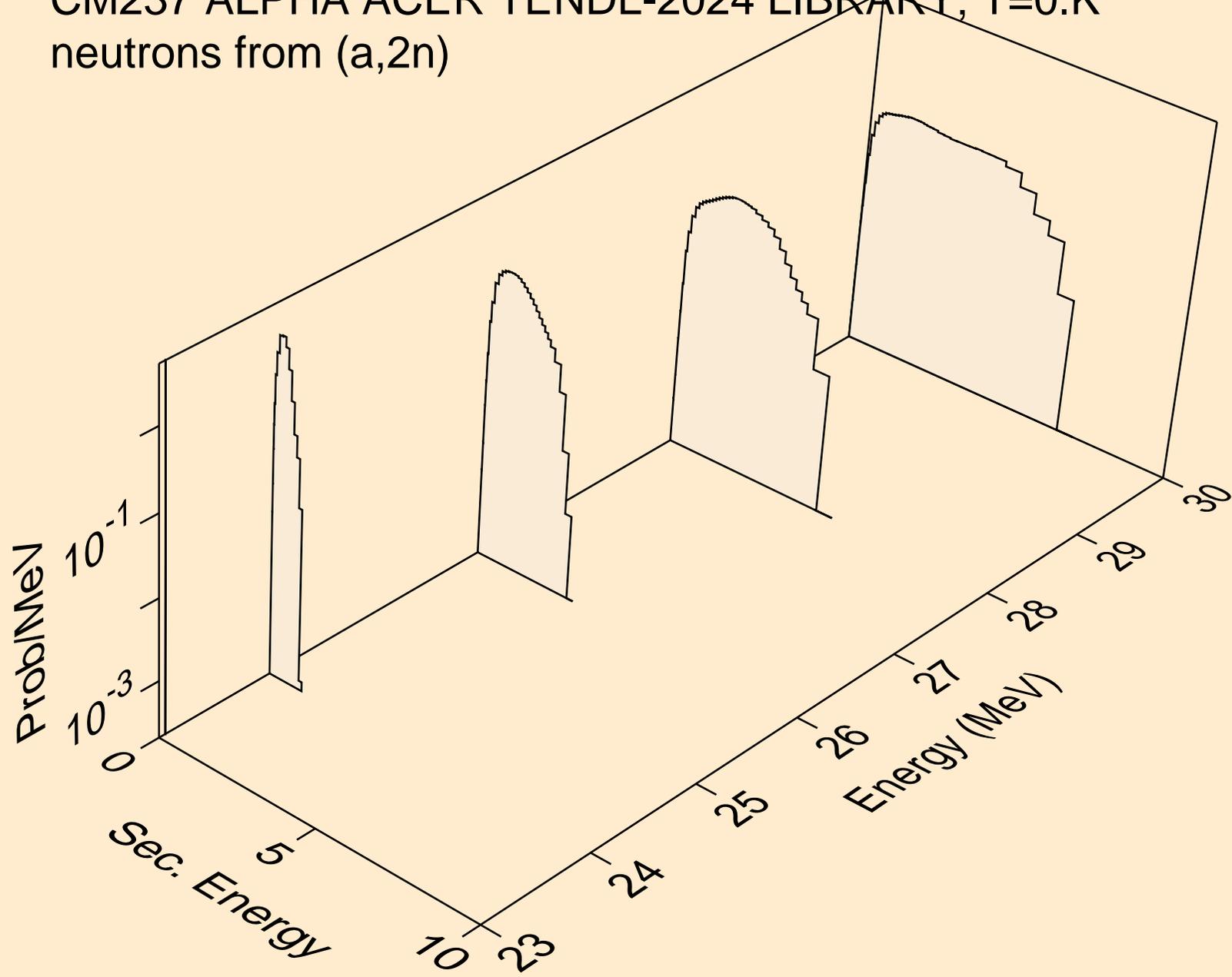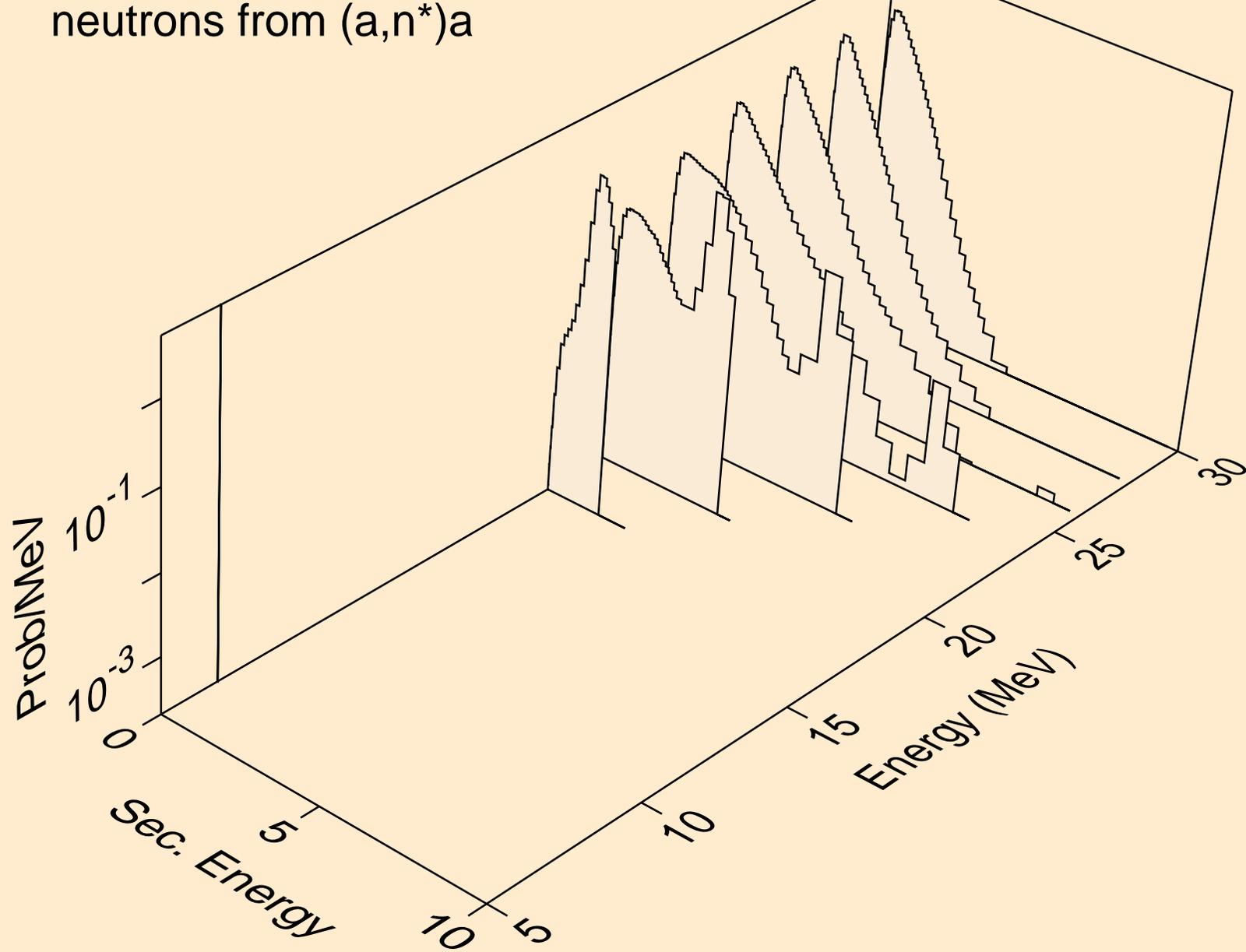
CM237 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
neutrons from (a,n)

CM237 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
neutrons from (a,x)

Prob/MeV

10^{-2}

10^{-4}

Sec. Energy

Energy (MeV)

CM237 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
neutrons from (a,2n)

CM237 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
neutrons from (a,n*)a

ProblMeV

10^{-1}

10^{-3}

0

Sec. Energy

5

10

5

10

15

20

25

30

Energy (MeV)

CM237 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
neutrons from (a,n*)p

Prob/MeV

10^{-1}

10^{-3}

Sec. Energy

Energy (MeV)

CM237 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
protons from (a,x)

CM237 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
protons from (a,n*)p

Prob/MeV

10^0

10^{-2}

Sec. Energy

Energy (MeV)

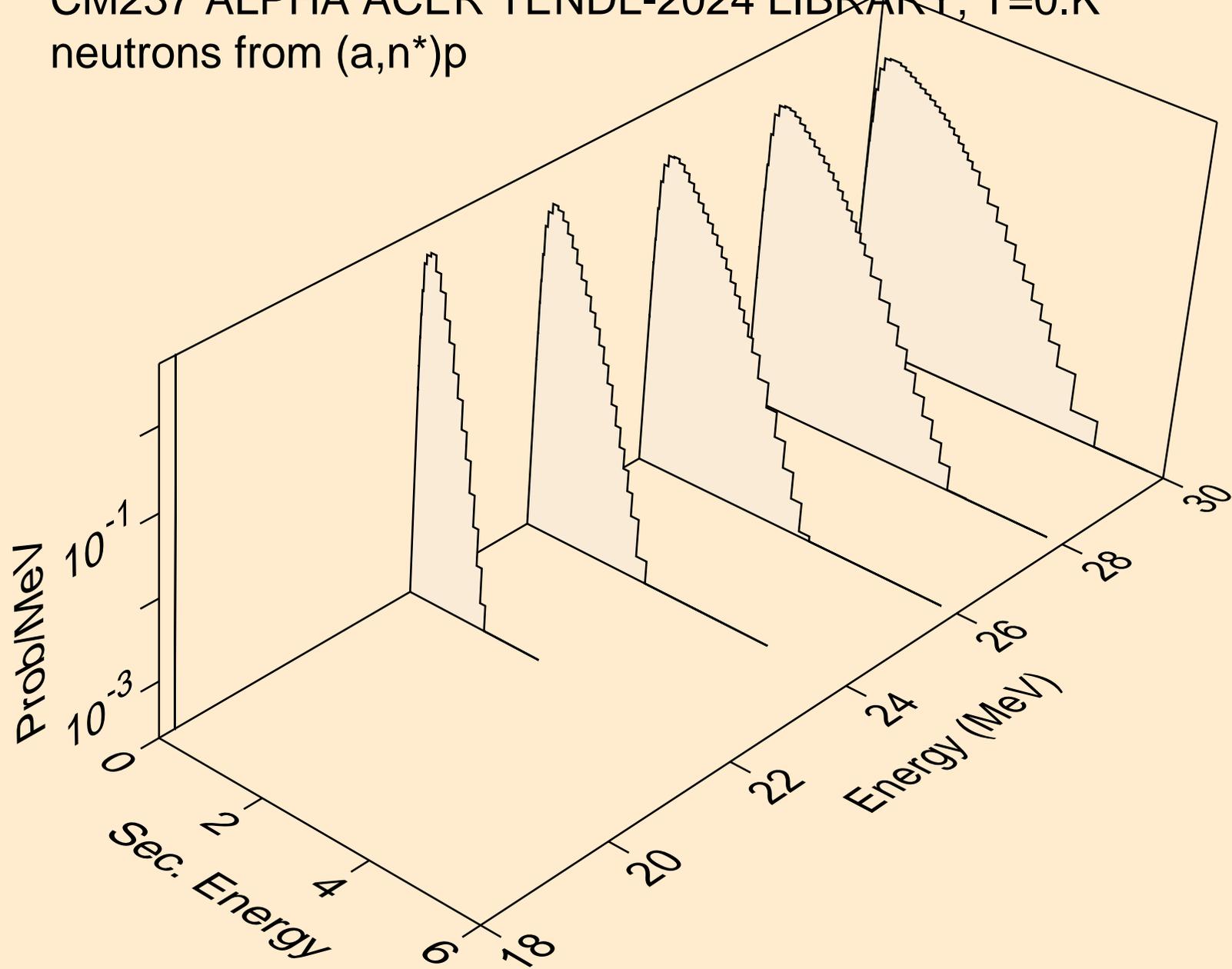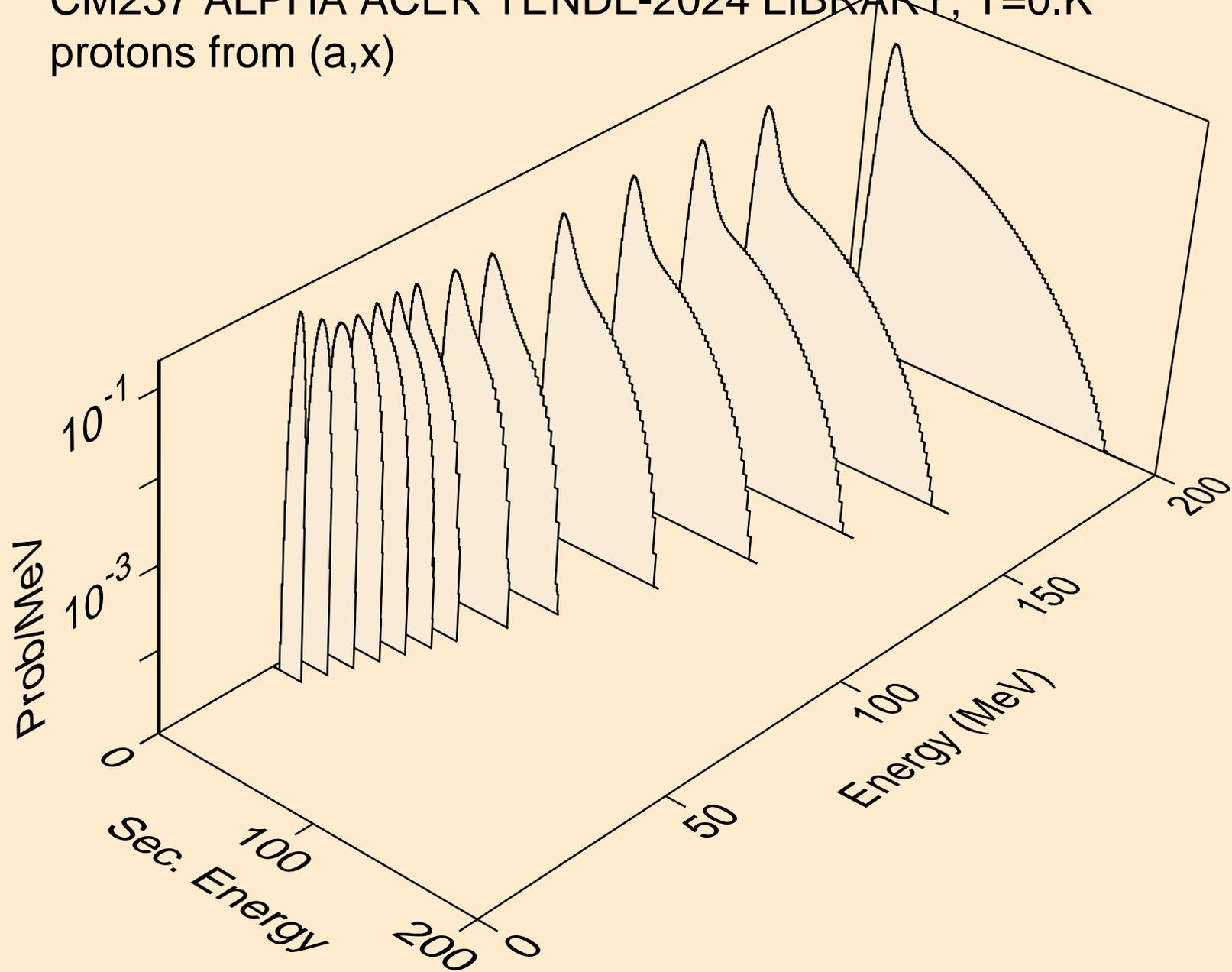CM237 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
protons from (a,p)

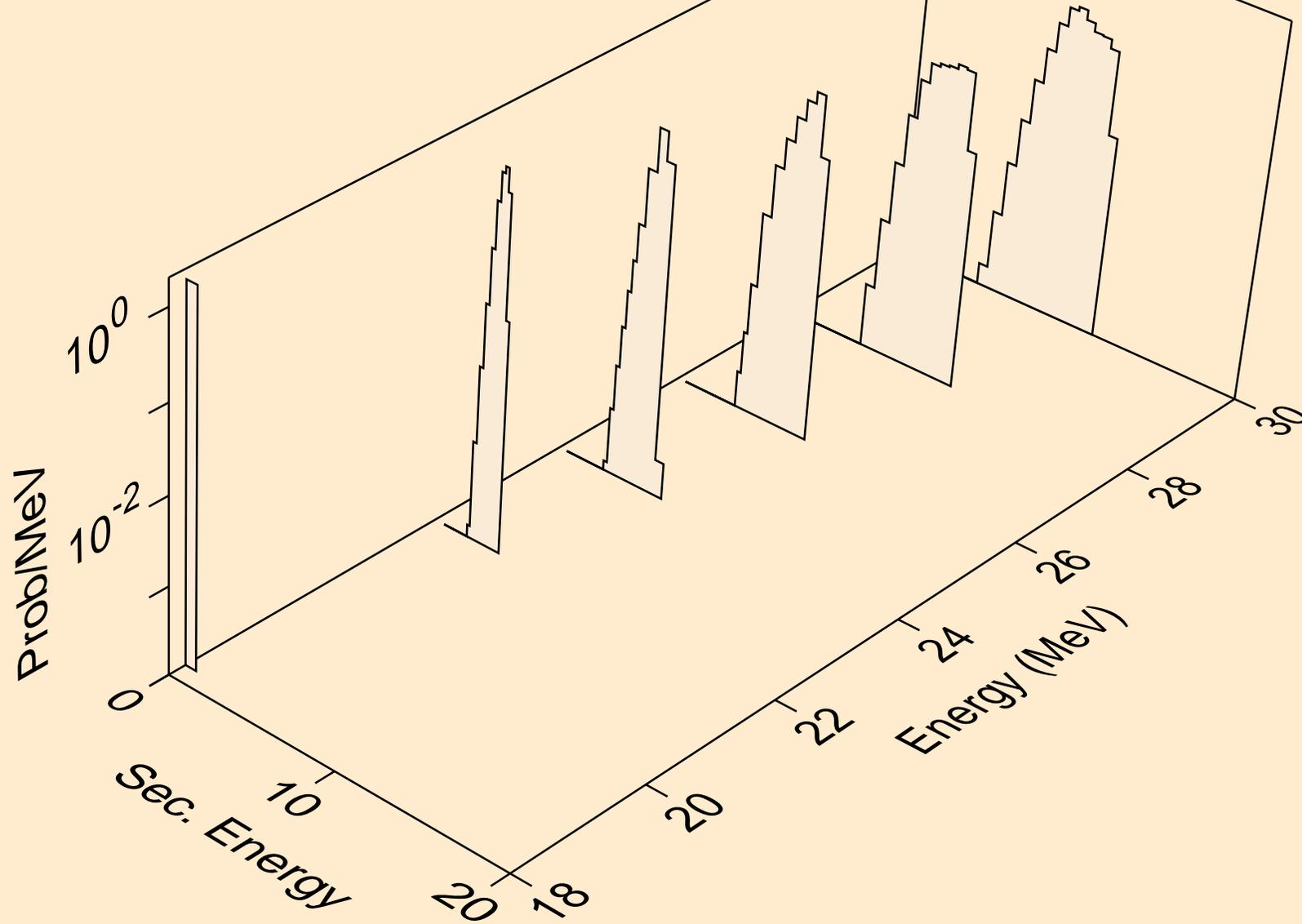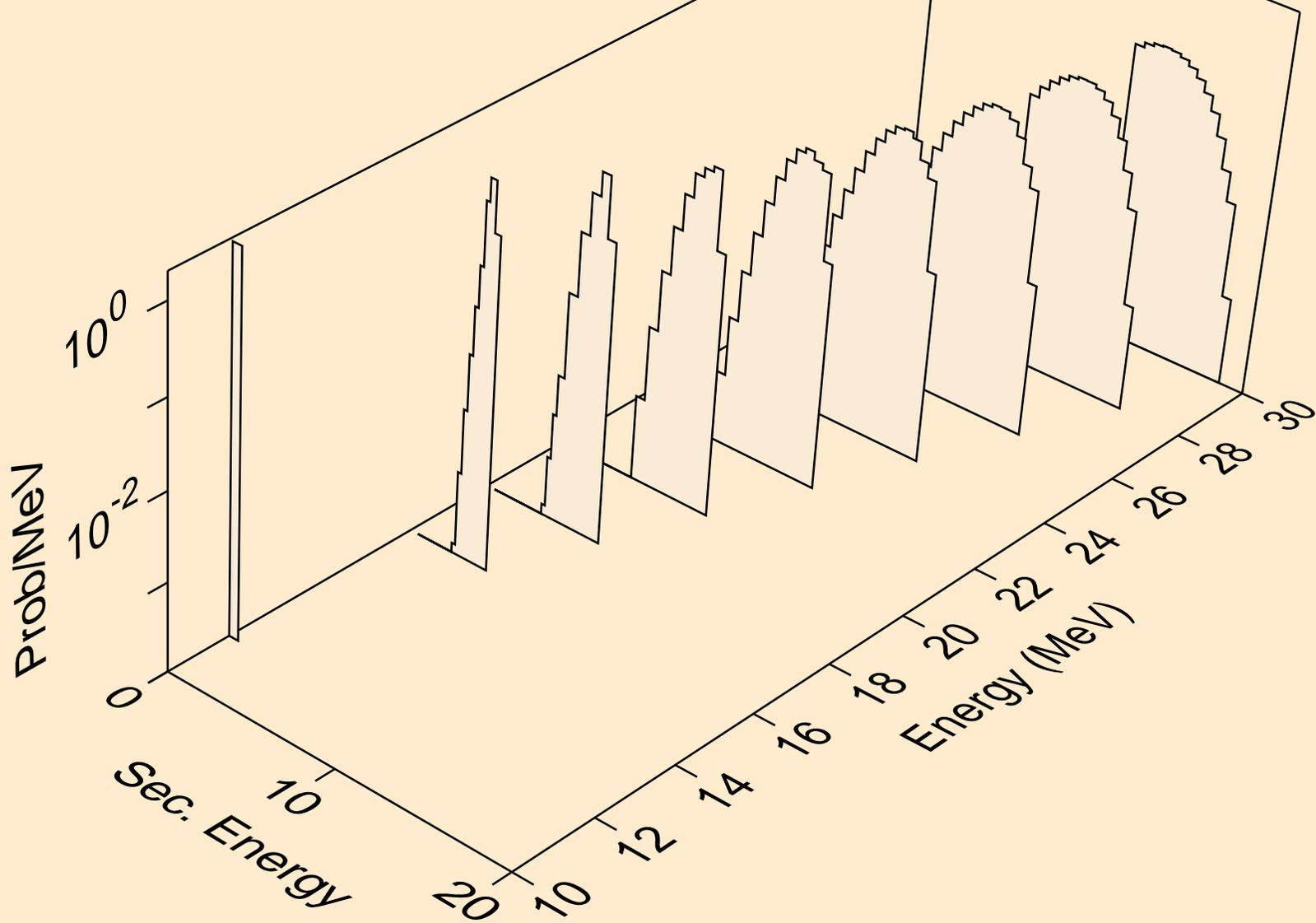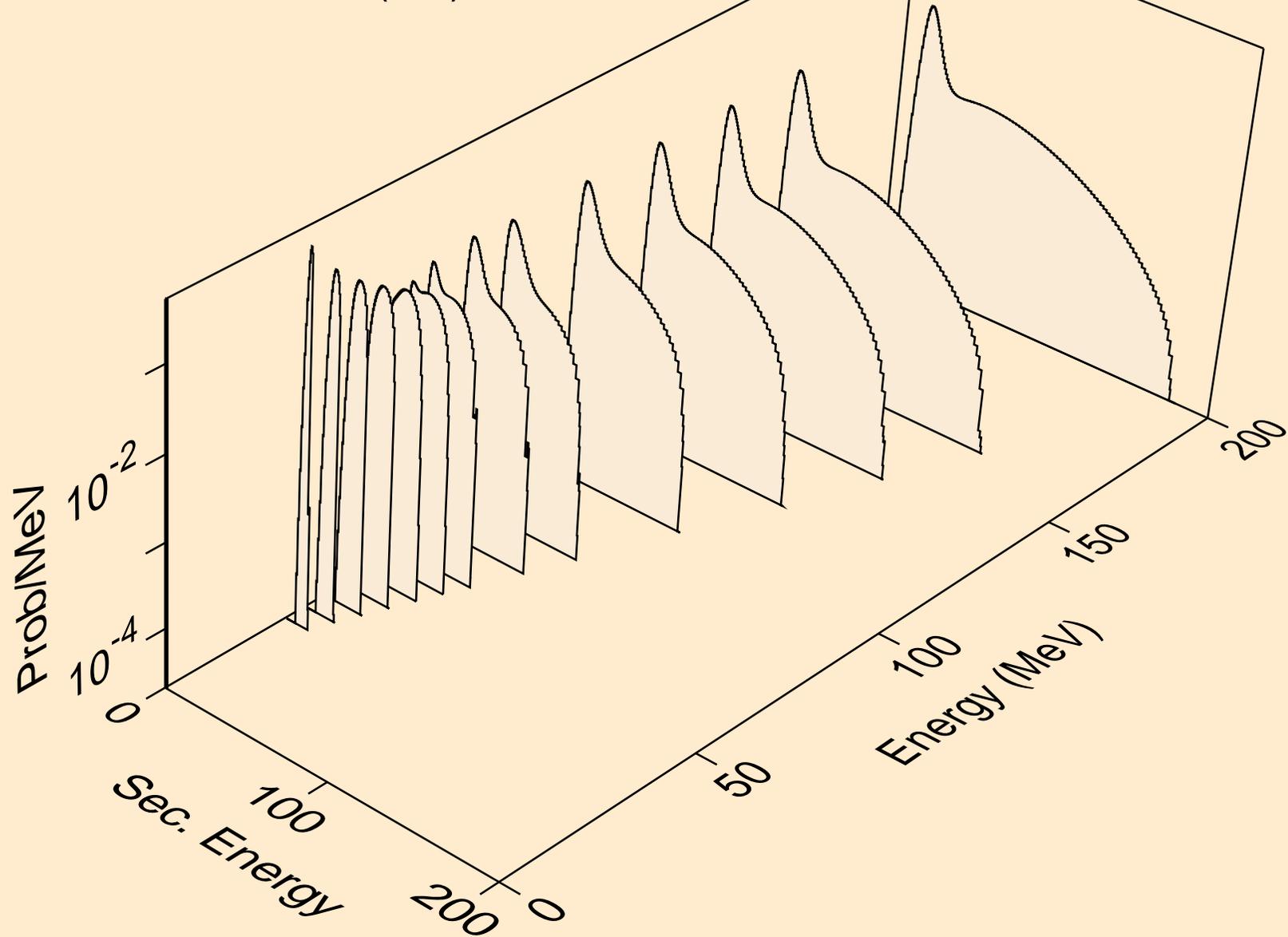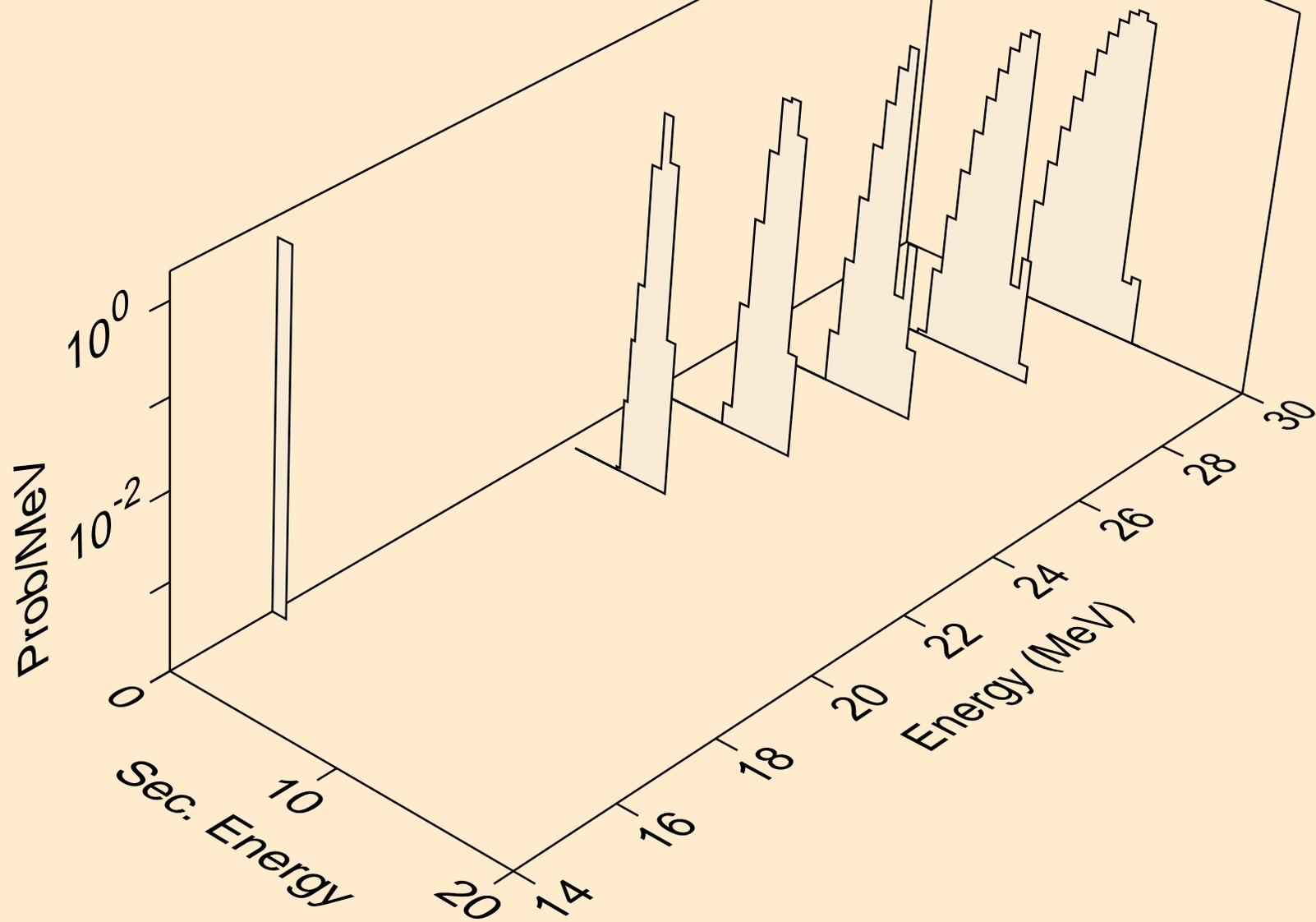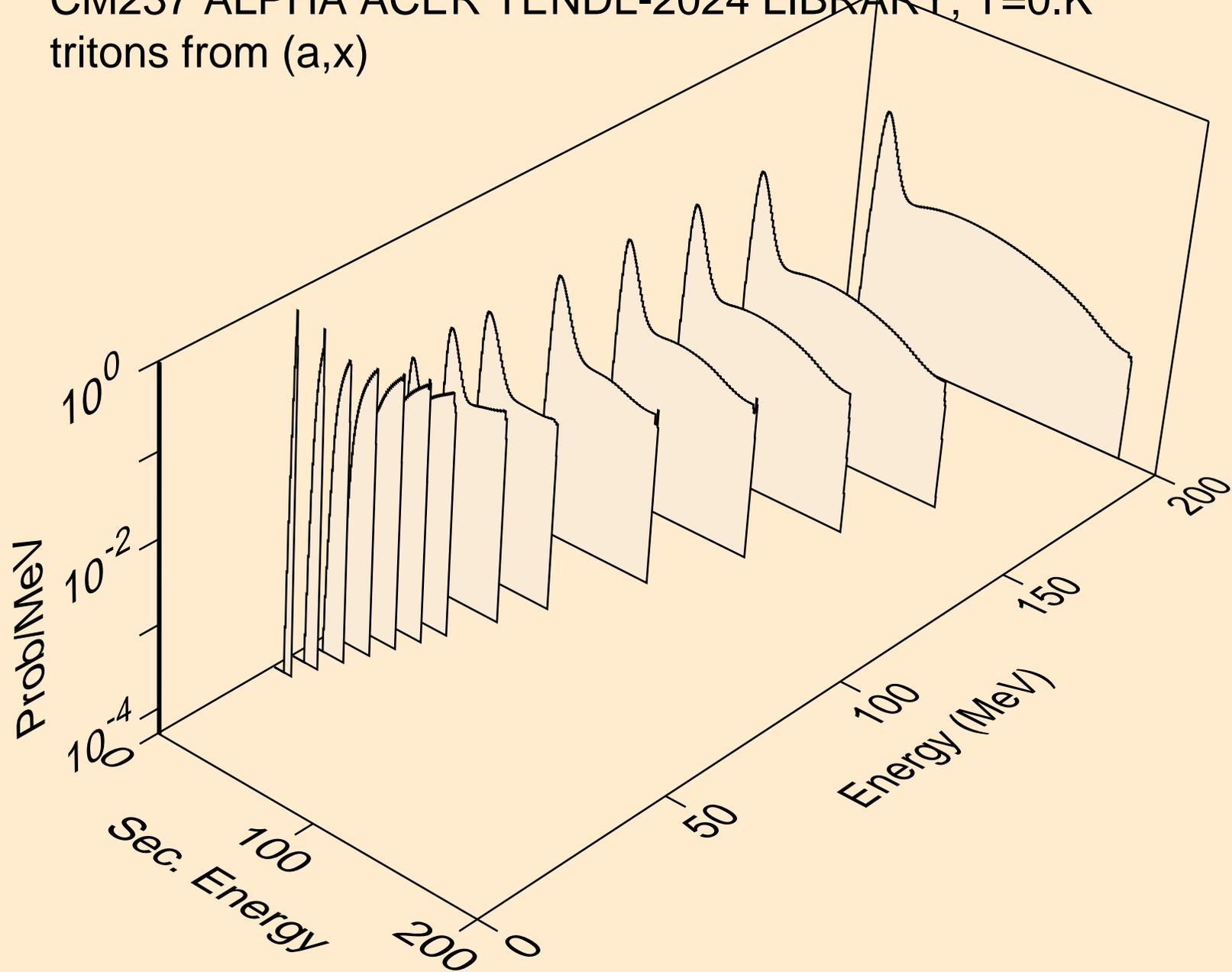CM237 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
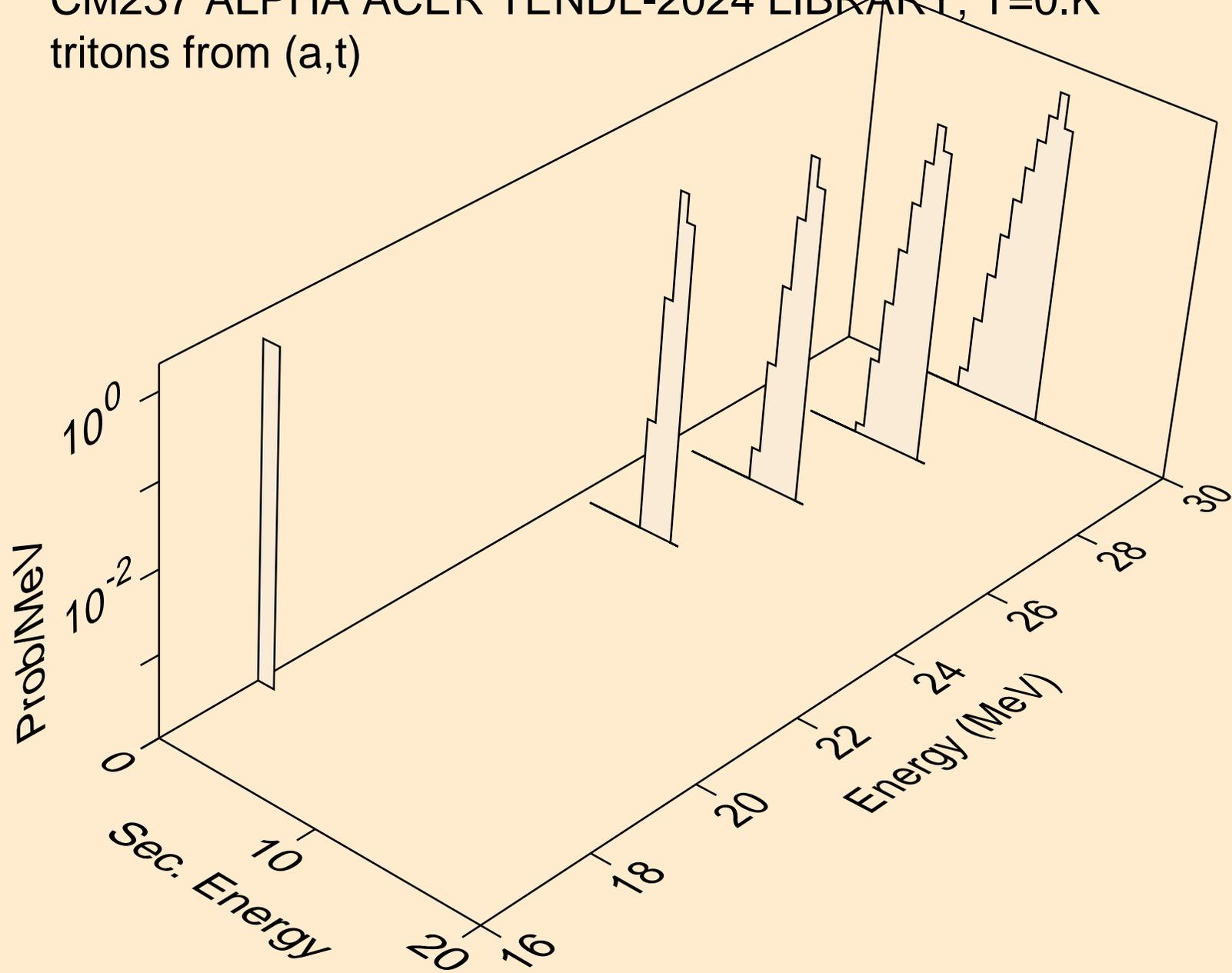deuterons from (a,x)

CM237 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
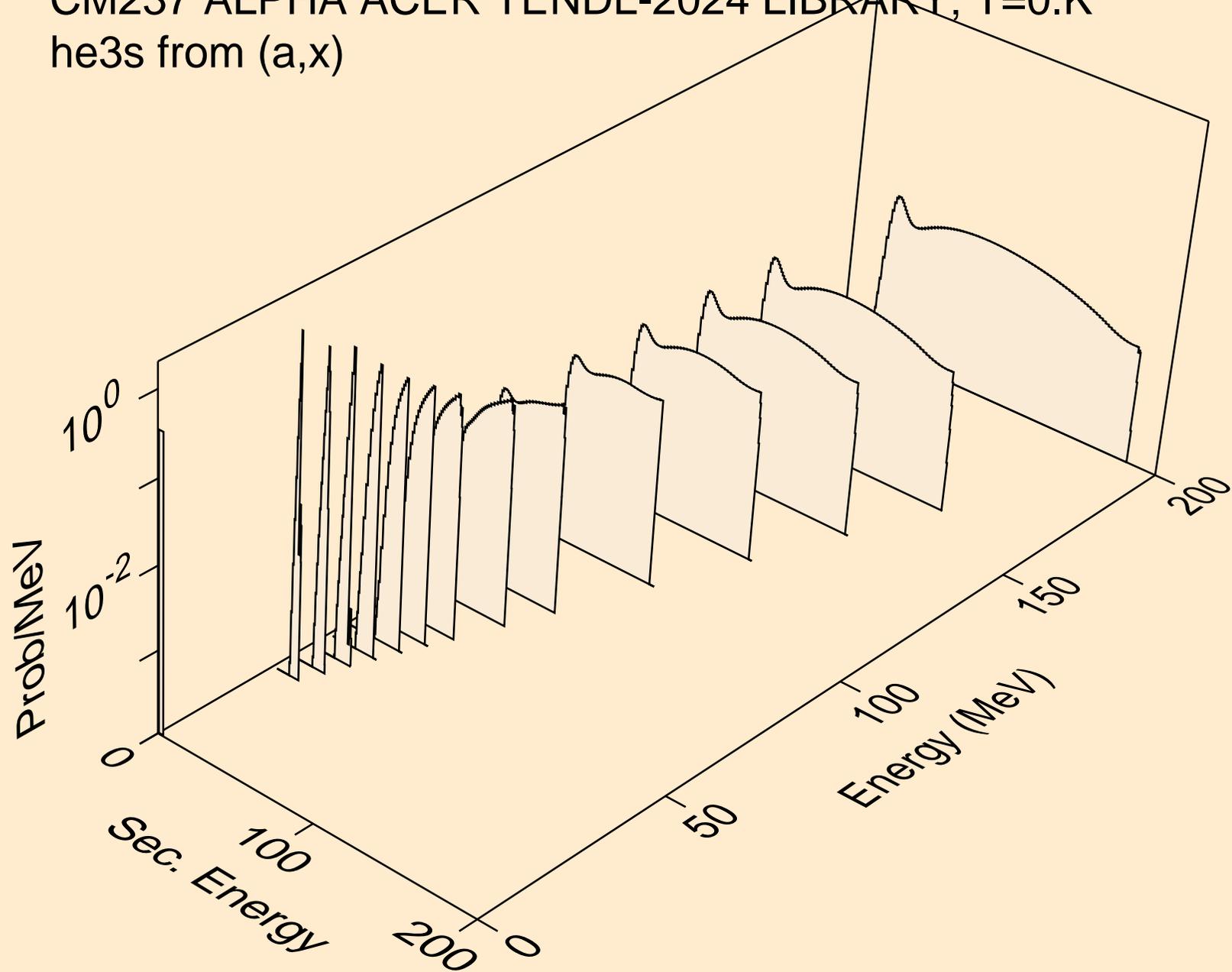deuterons from (a,d)

CM237 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
tritons from (a,x)

CM237 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
tritons from (a,t)

Prob/MeV

10^0

10^{-2}

0

Sec. Energy

10

20

16

18

20

22

24

26

28

30

Energy (MeV)

CM237 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
he3s from (a,x)

Prob/MeV

10^0

10^{-2}

Sec. Energy

Energy (MeV)

0

50

100

150

200

0

100

200

CM237 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
he3s from (a,he3)