RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Principal cross sections

Cross section (barns) vs Energy (MeV)

- total
- absorption
- elastic
- gamma production

RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Heating

heating

Heating (MeV/reaction)

Energy (MeV)

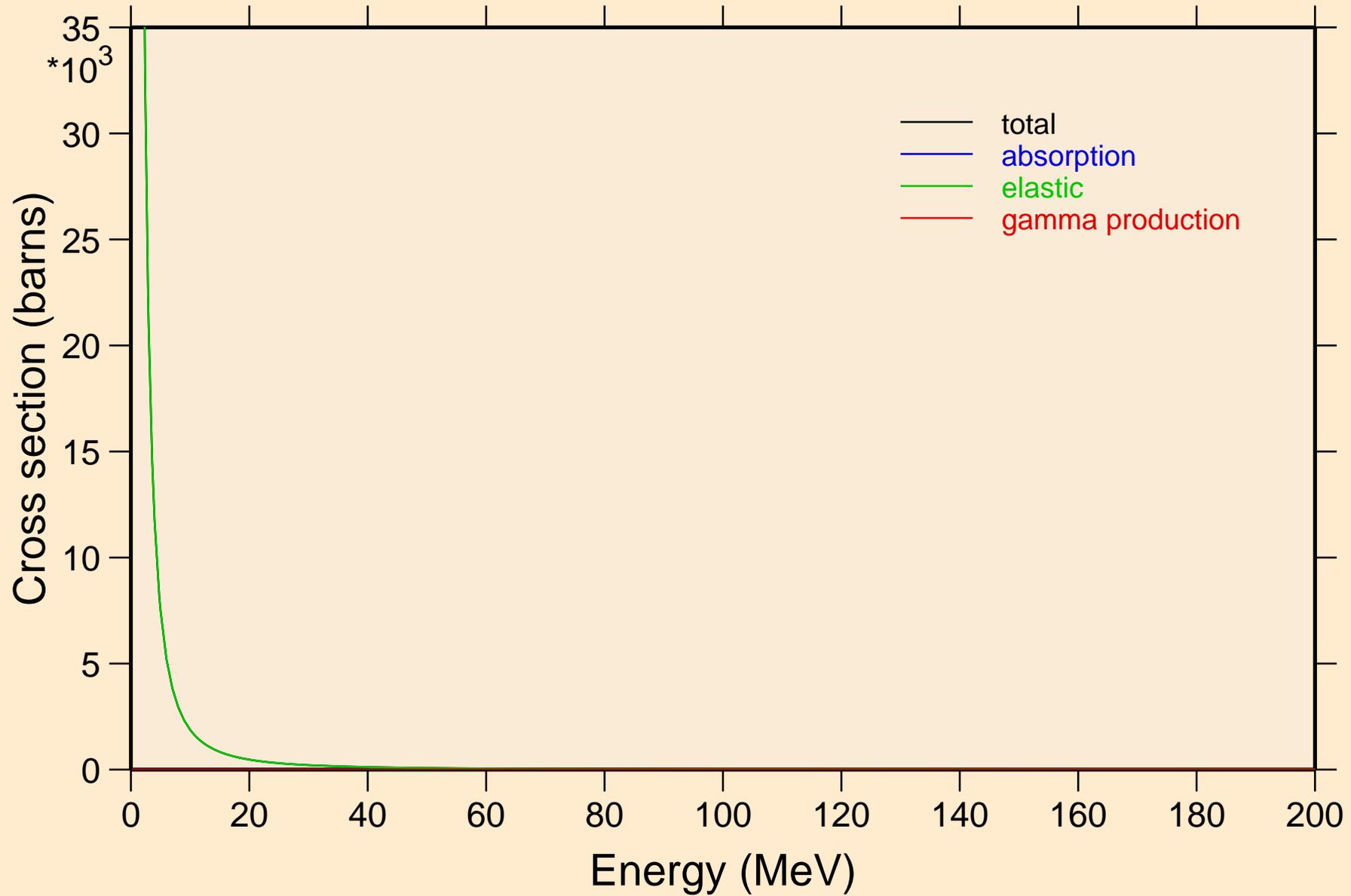RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Principal cross sections

Legend:
- total
- absorption
- elastic
- gamma production

X-axis: Energy (MeV)
Y-axis: Cross section (barns), *10³

RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Heating

Heating (MeV/reaction)

heating

Energy (MeV)

RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions
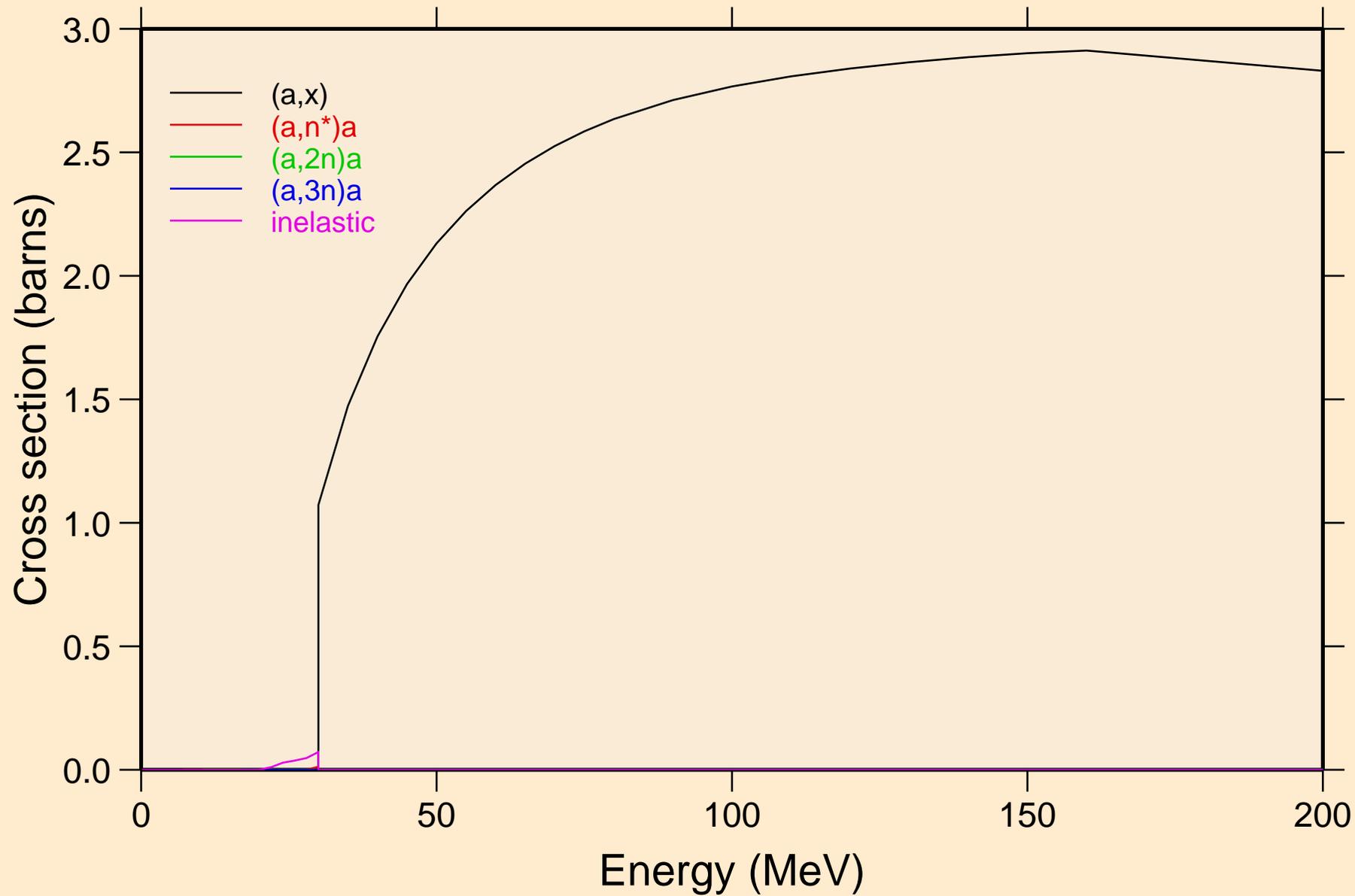
Legend:
- (a,x) — black
- (a,n*)a — red
- (a,2n)a — green
- (a,3n)a — blue
- inelastic — magenta

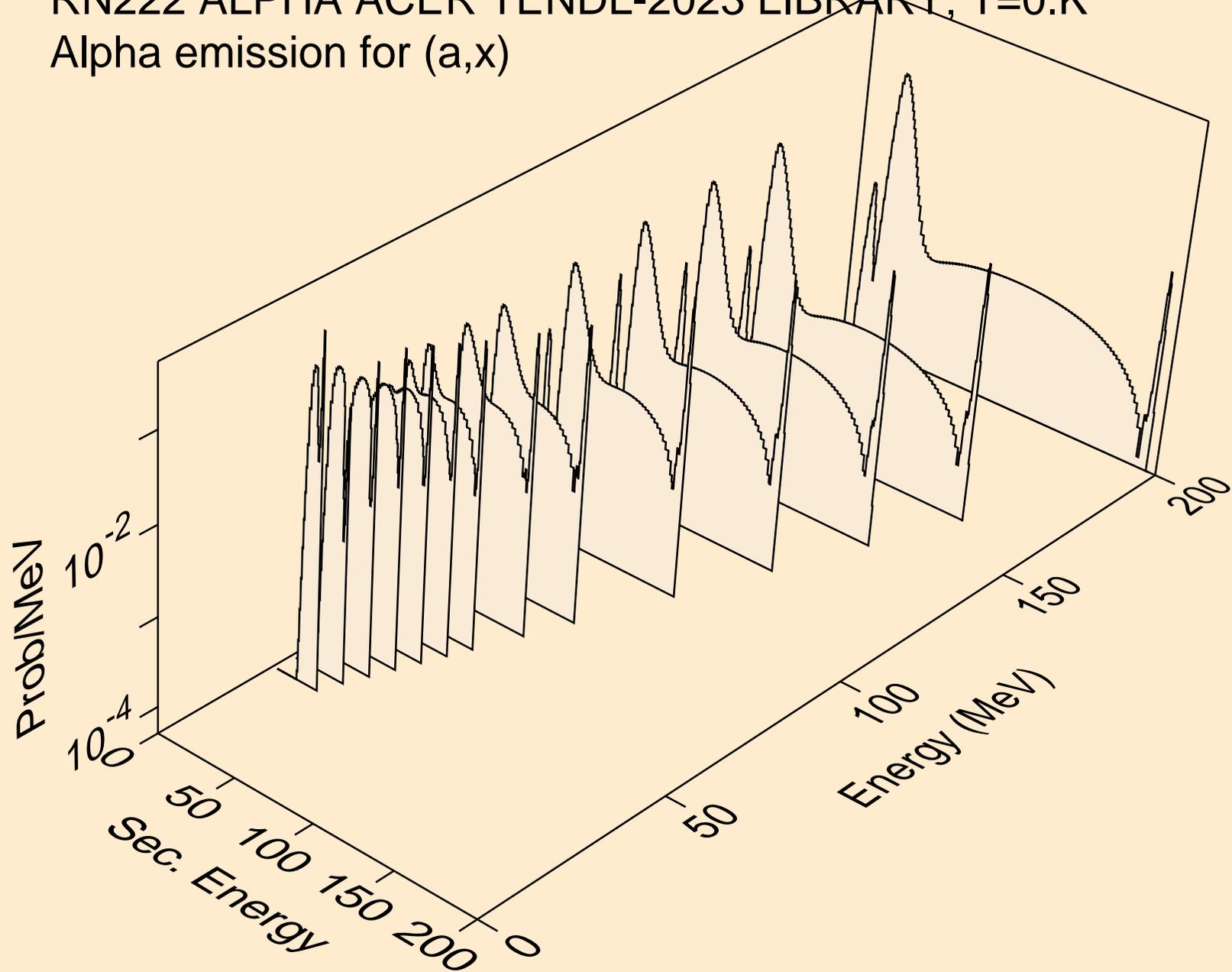Y-axis: Cross section (barns)
X-axis: Energy (MeV)

RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
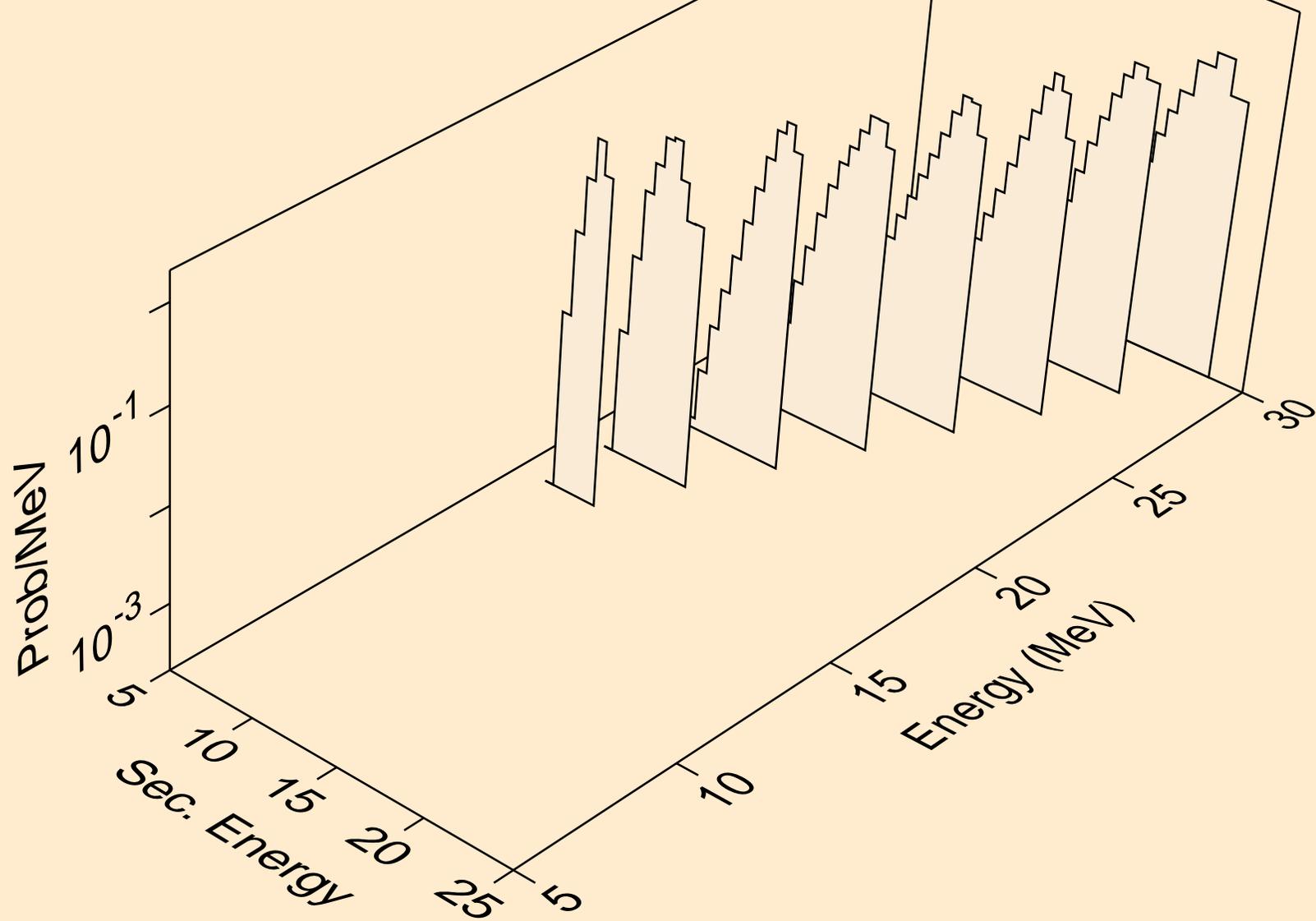angular distribution for elastic
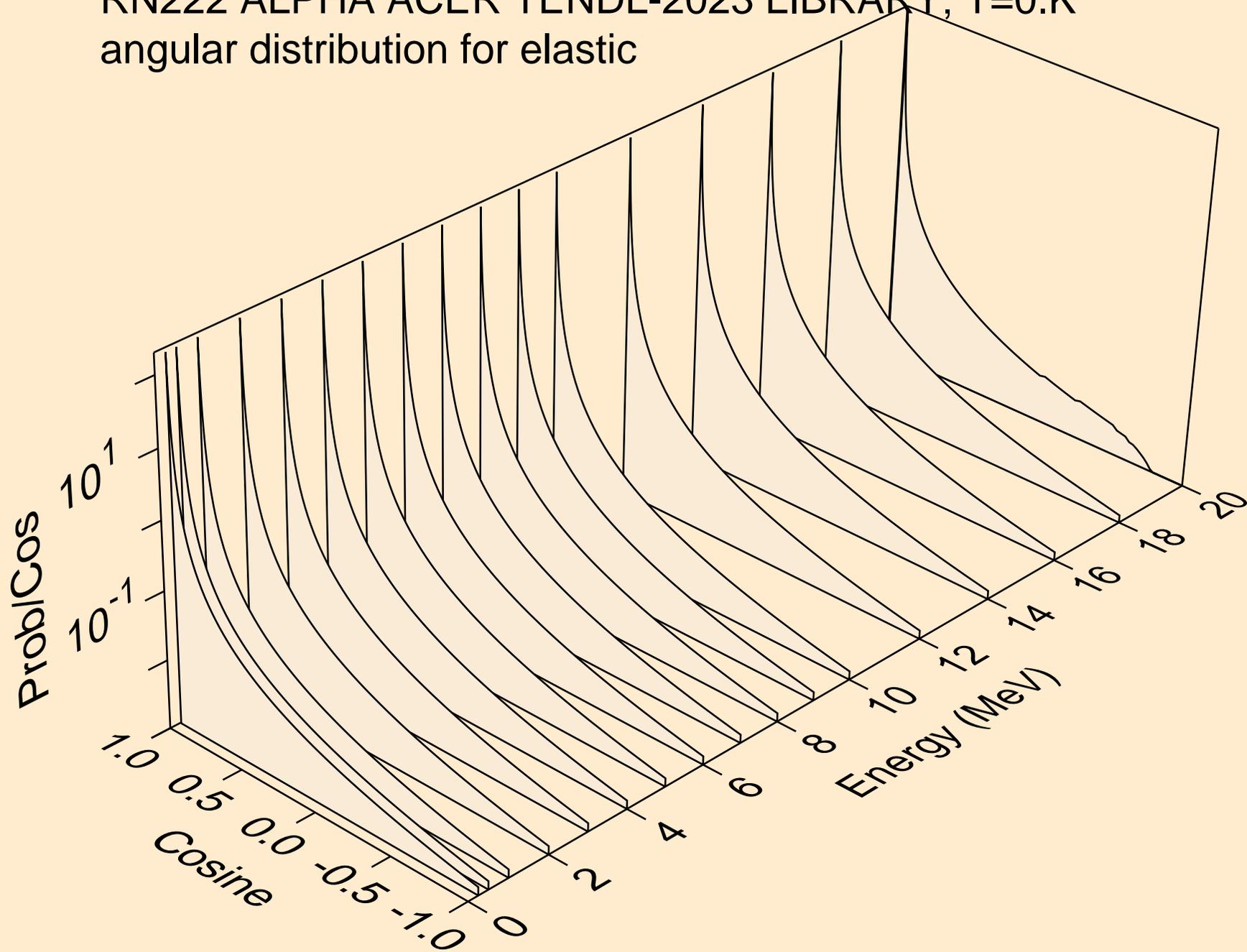
RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
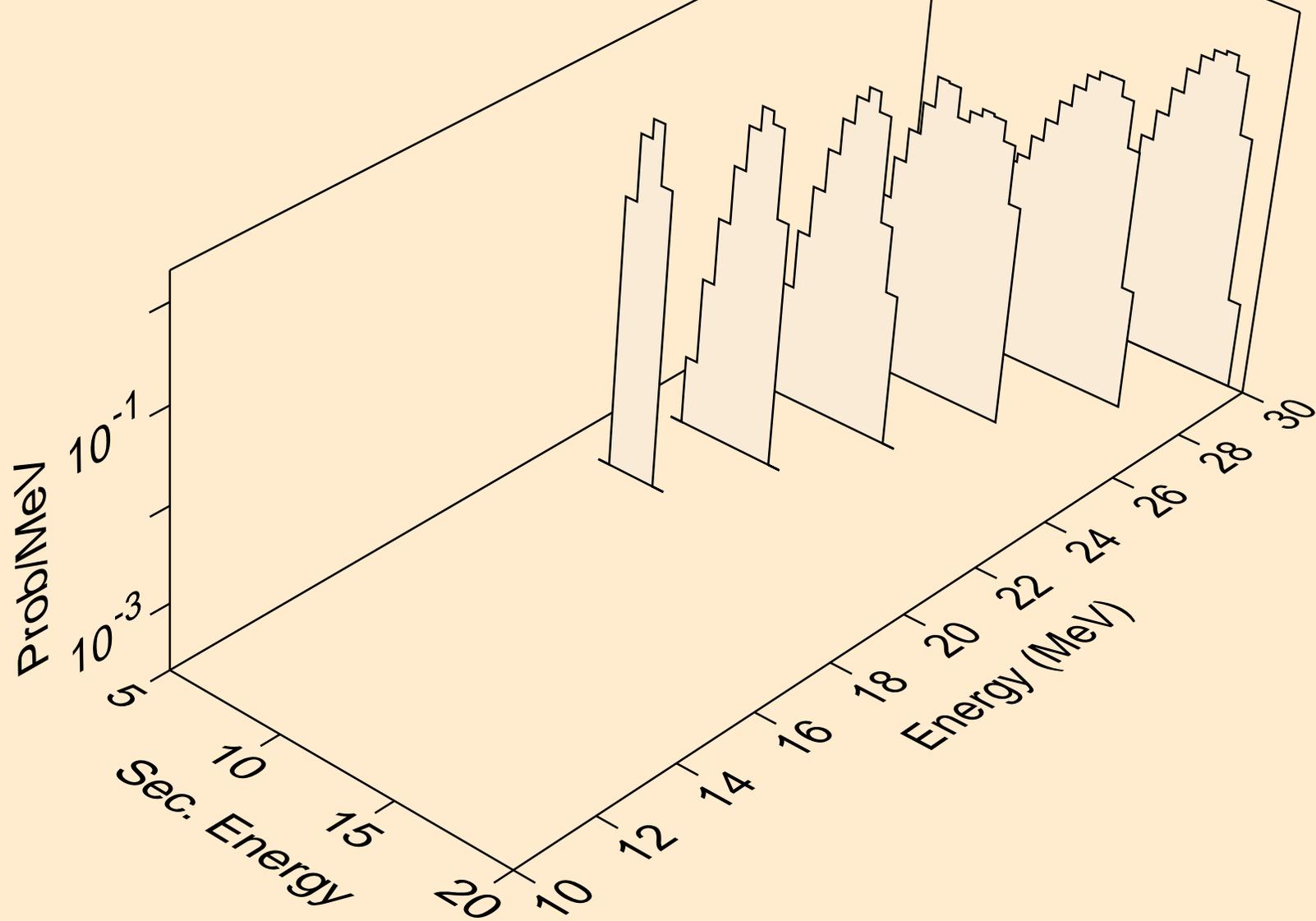angular distribution for elastic
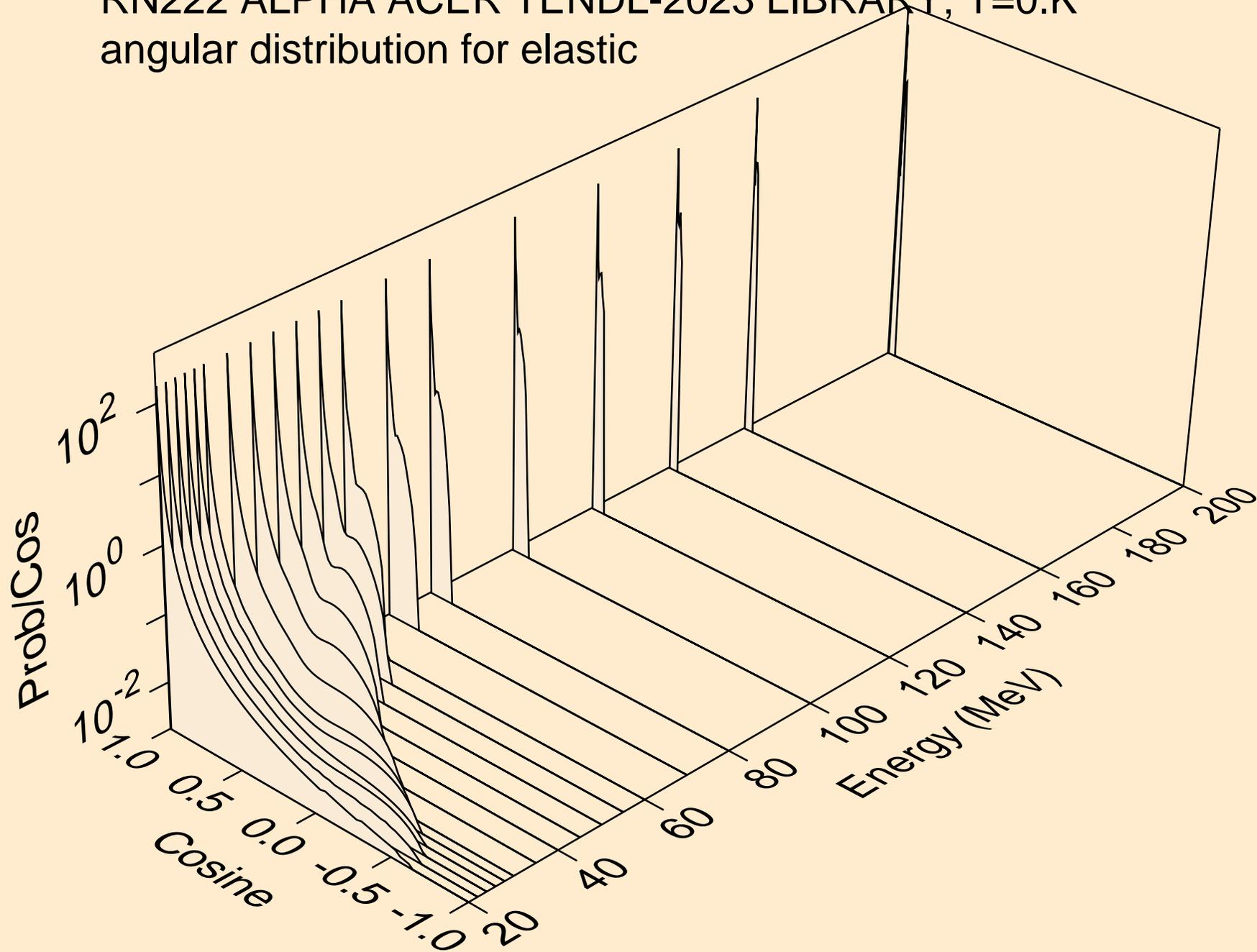
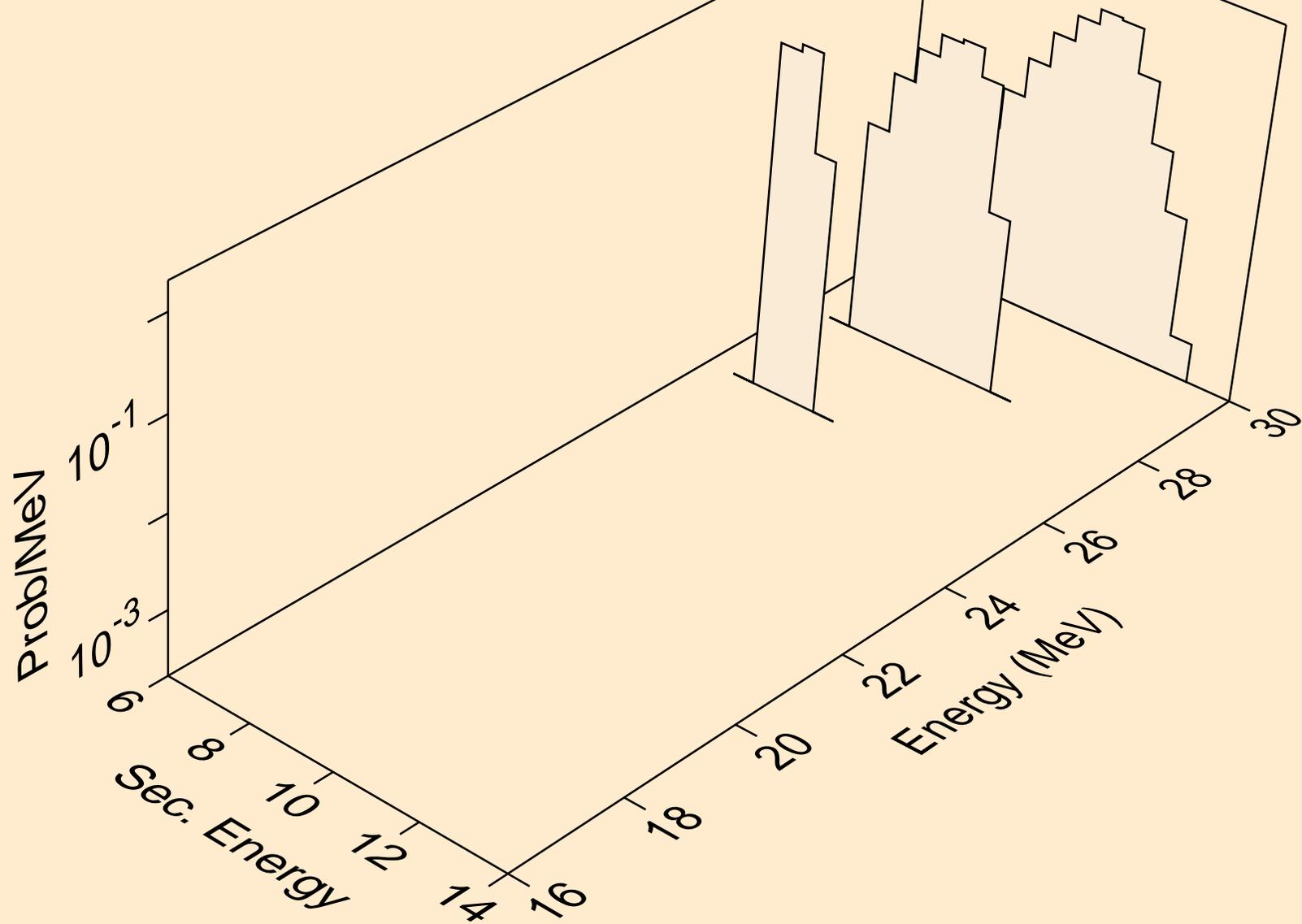RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Alpha emission for (a,x)

RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
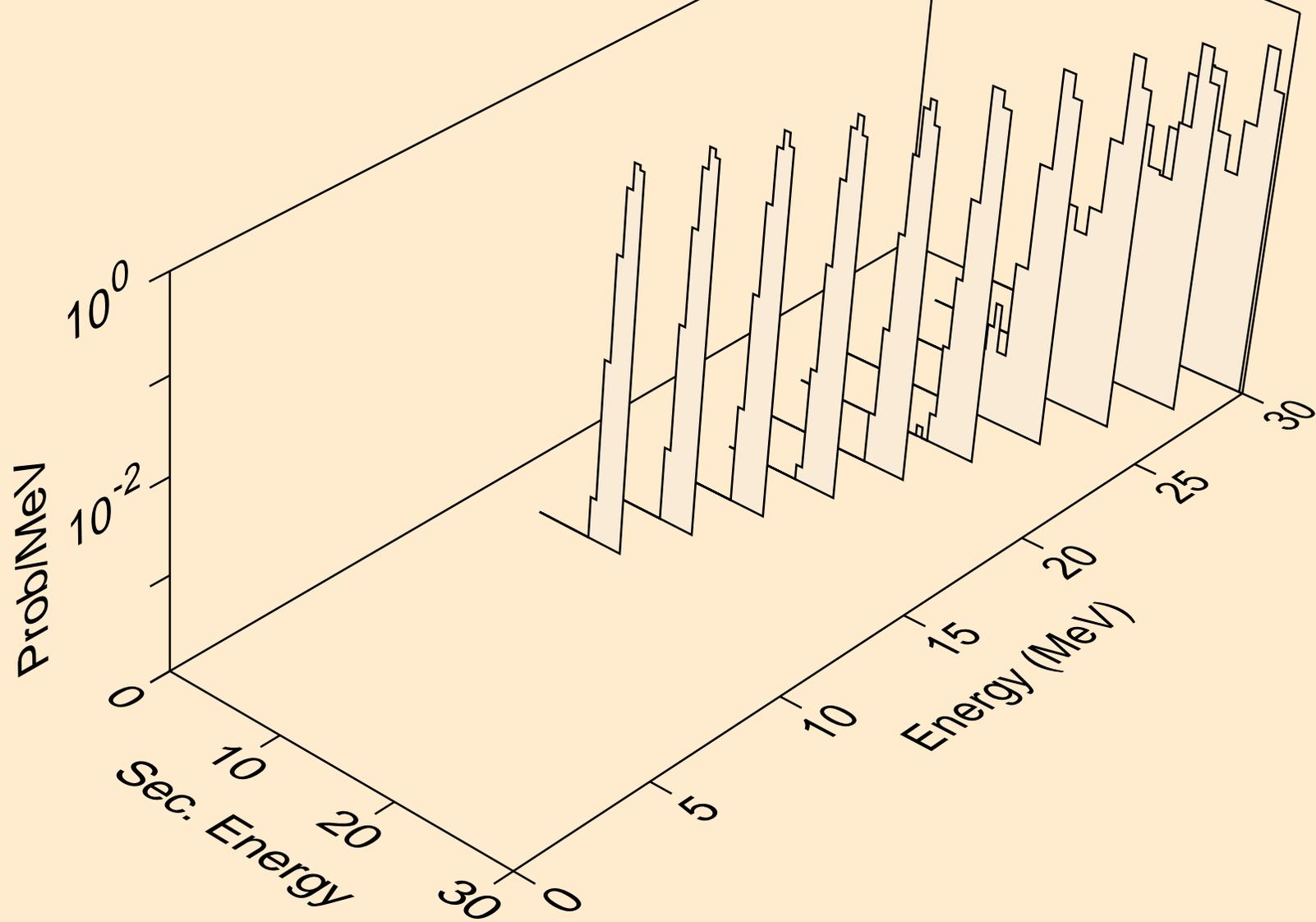Alpha emission for (a,n*)a

RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
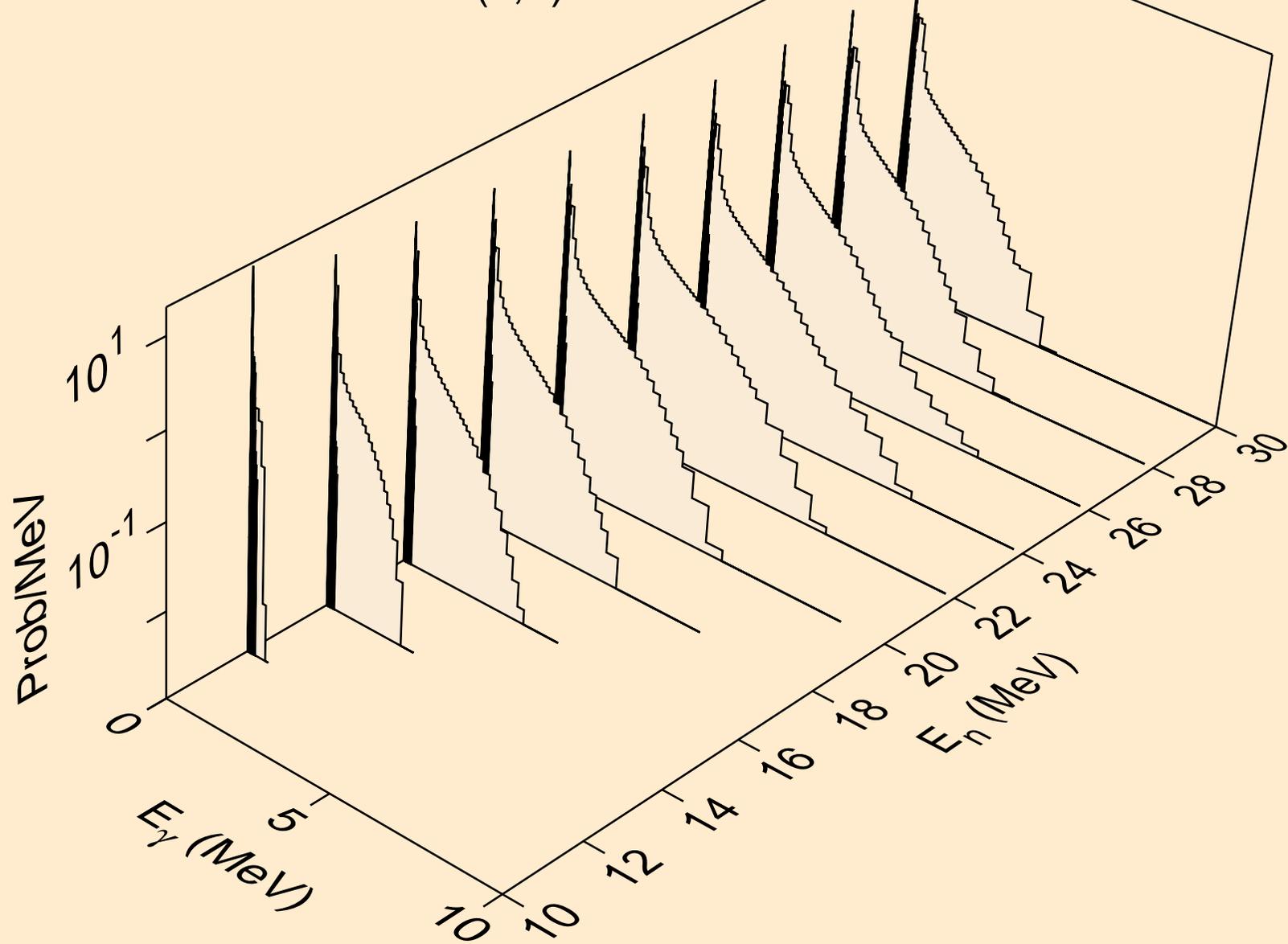Alpha emission for (a,2n)a

RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
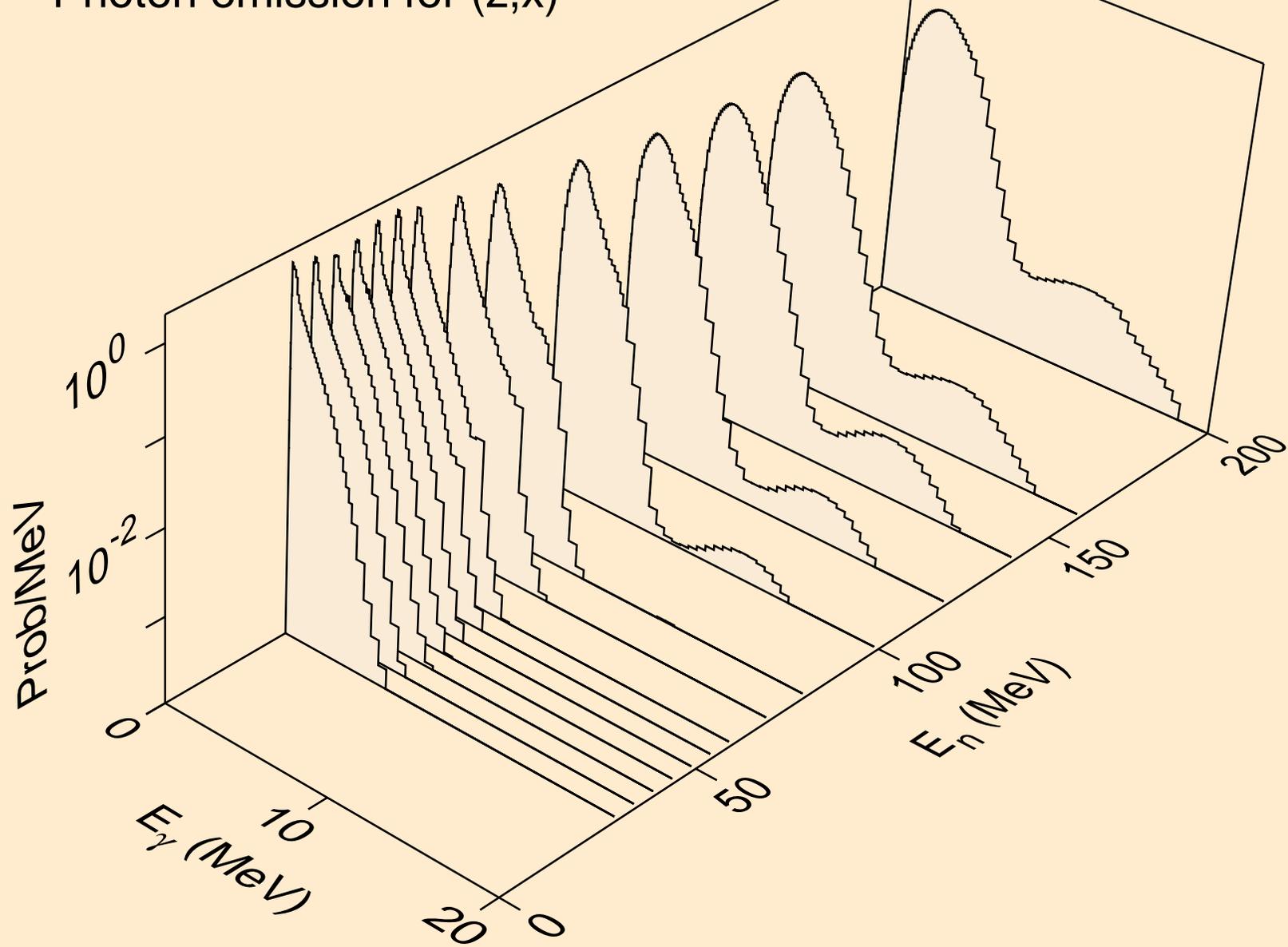Alpha emission for (a,3n)a

RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
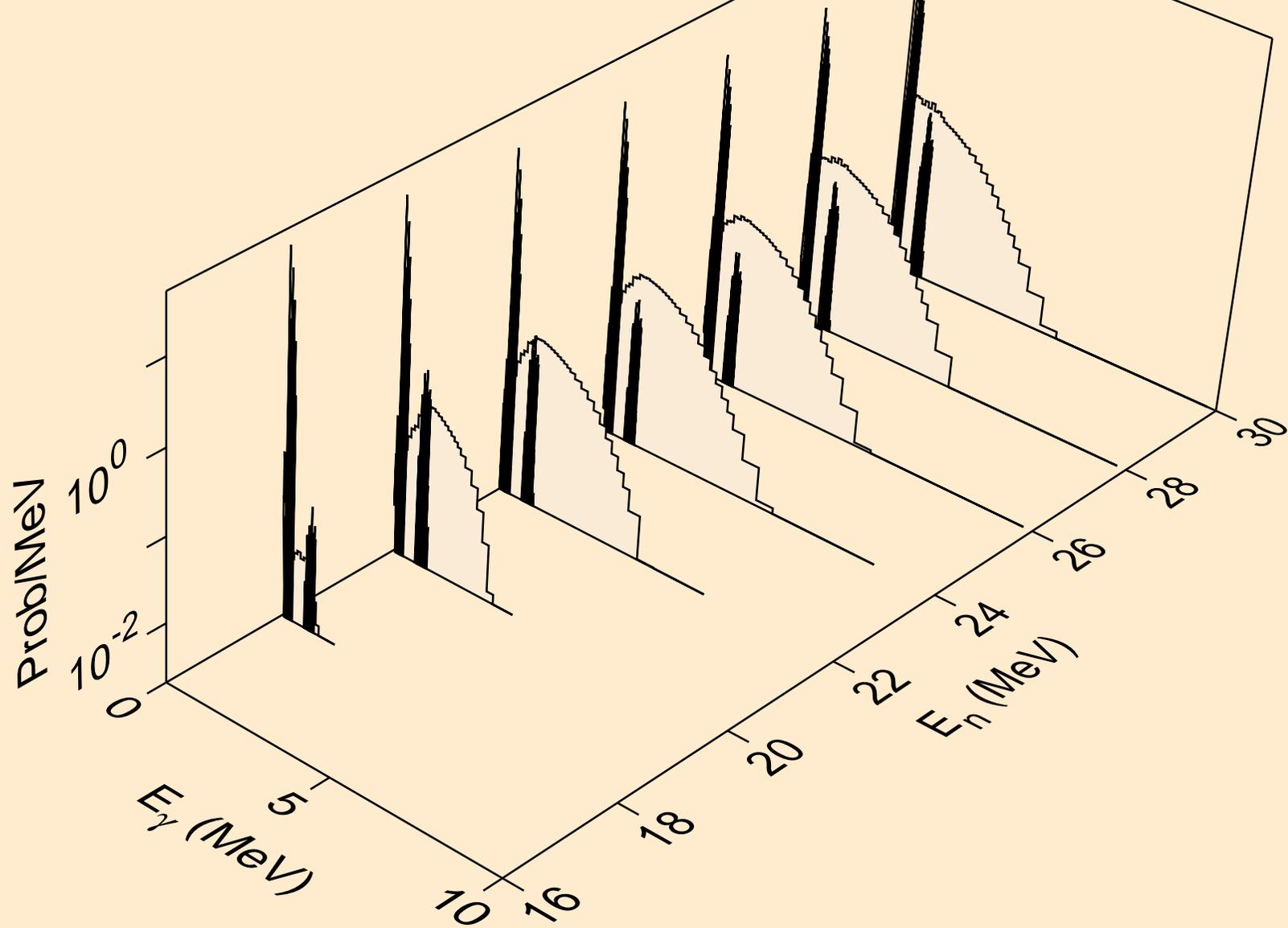Alpha emission for inelastic

RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
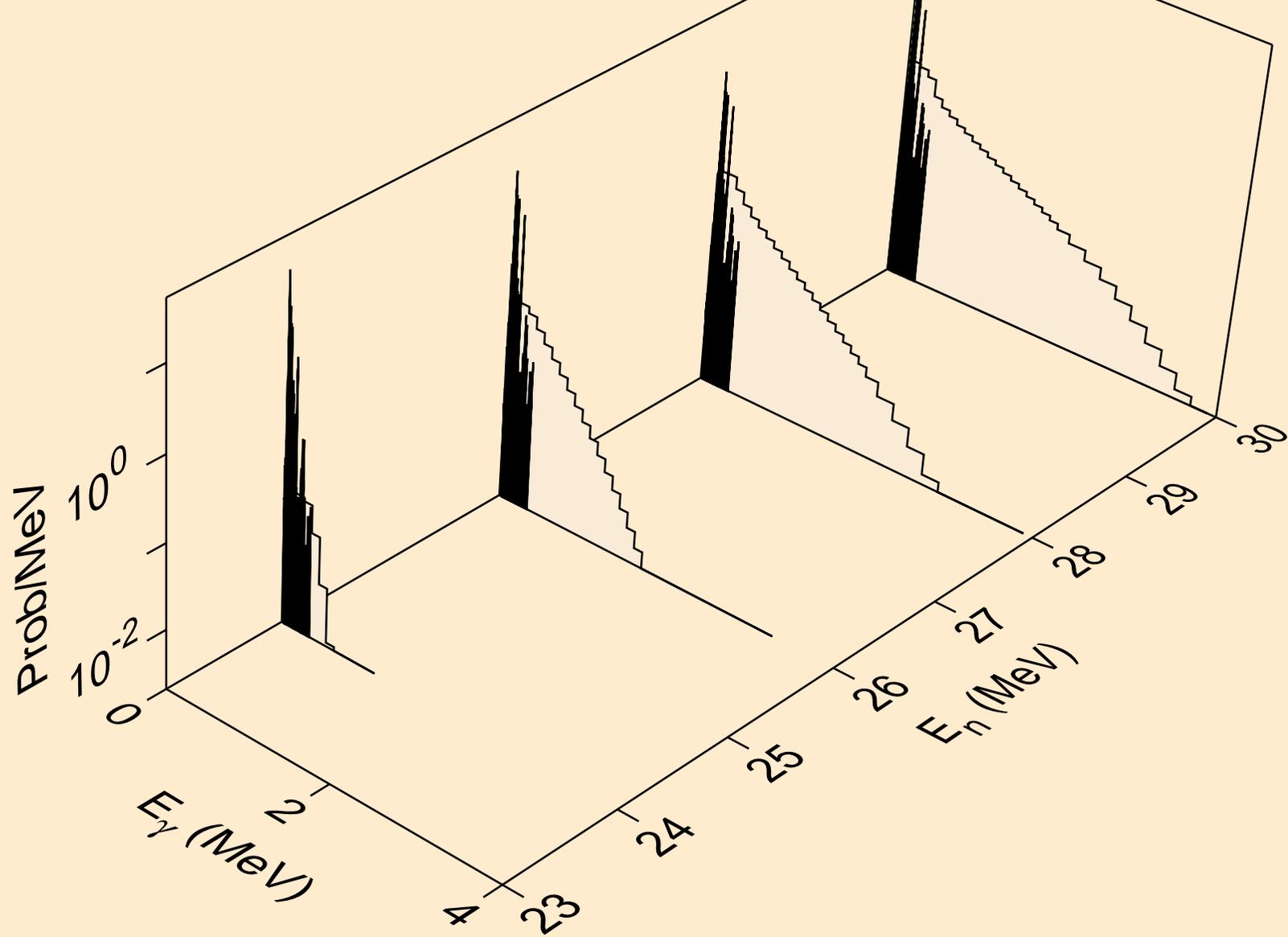Photon emission for (z,n)

RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
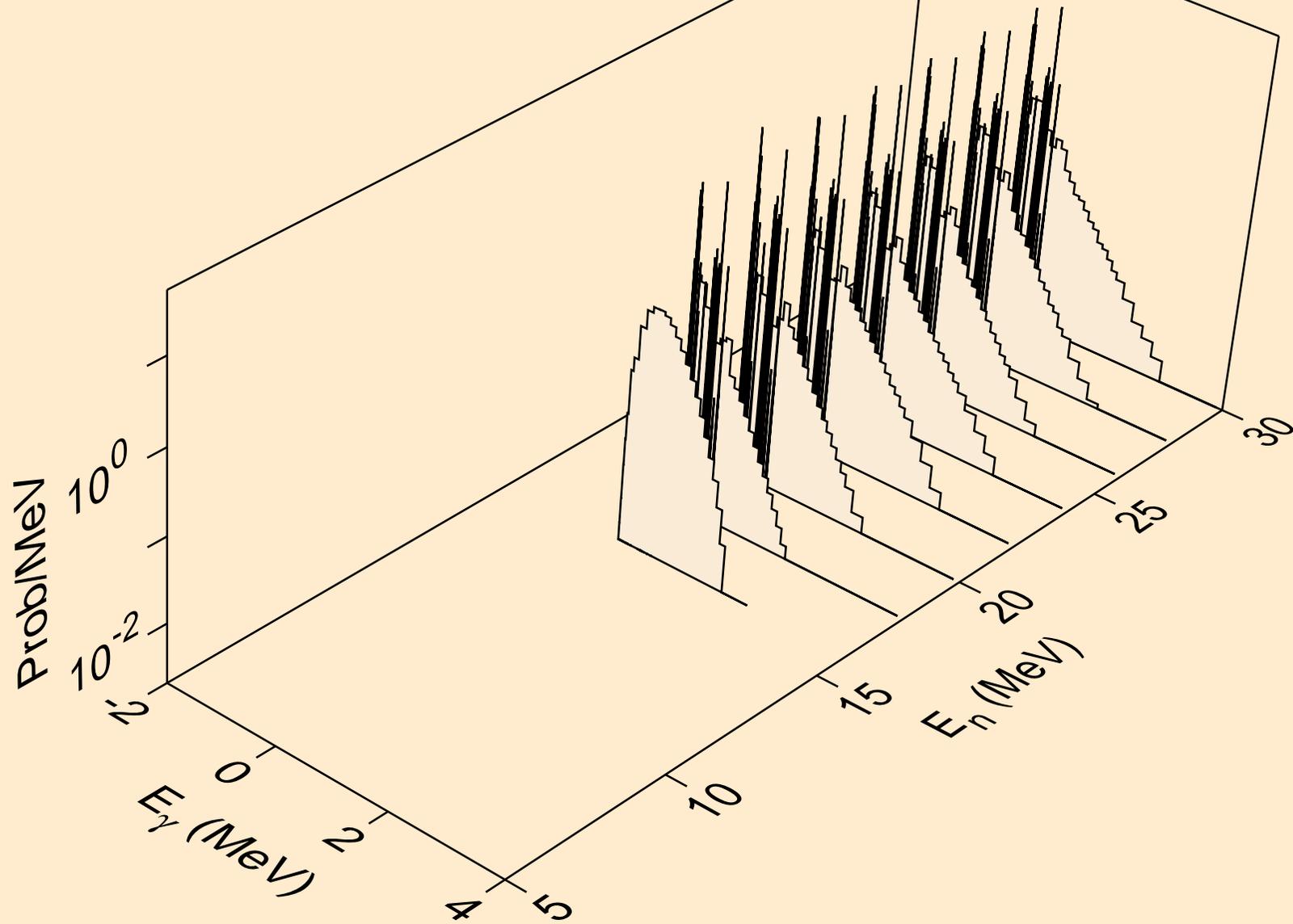Photon emission for (z,x)

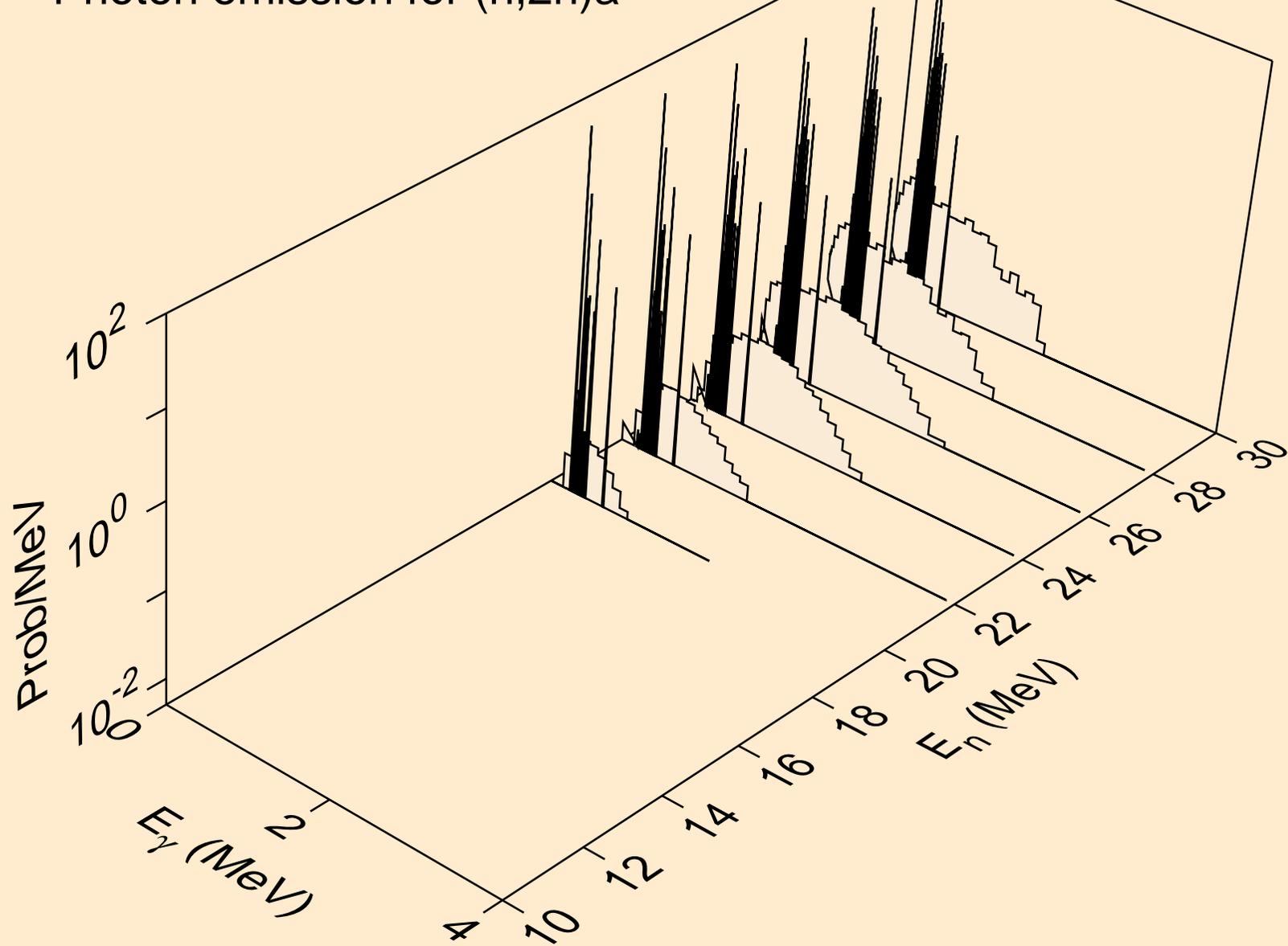RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2n)

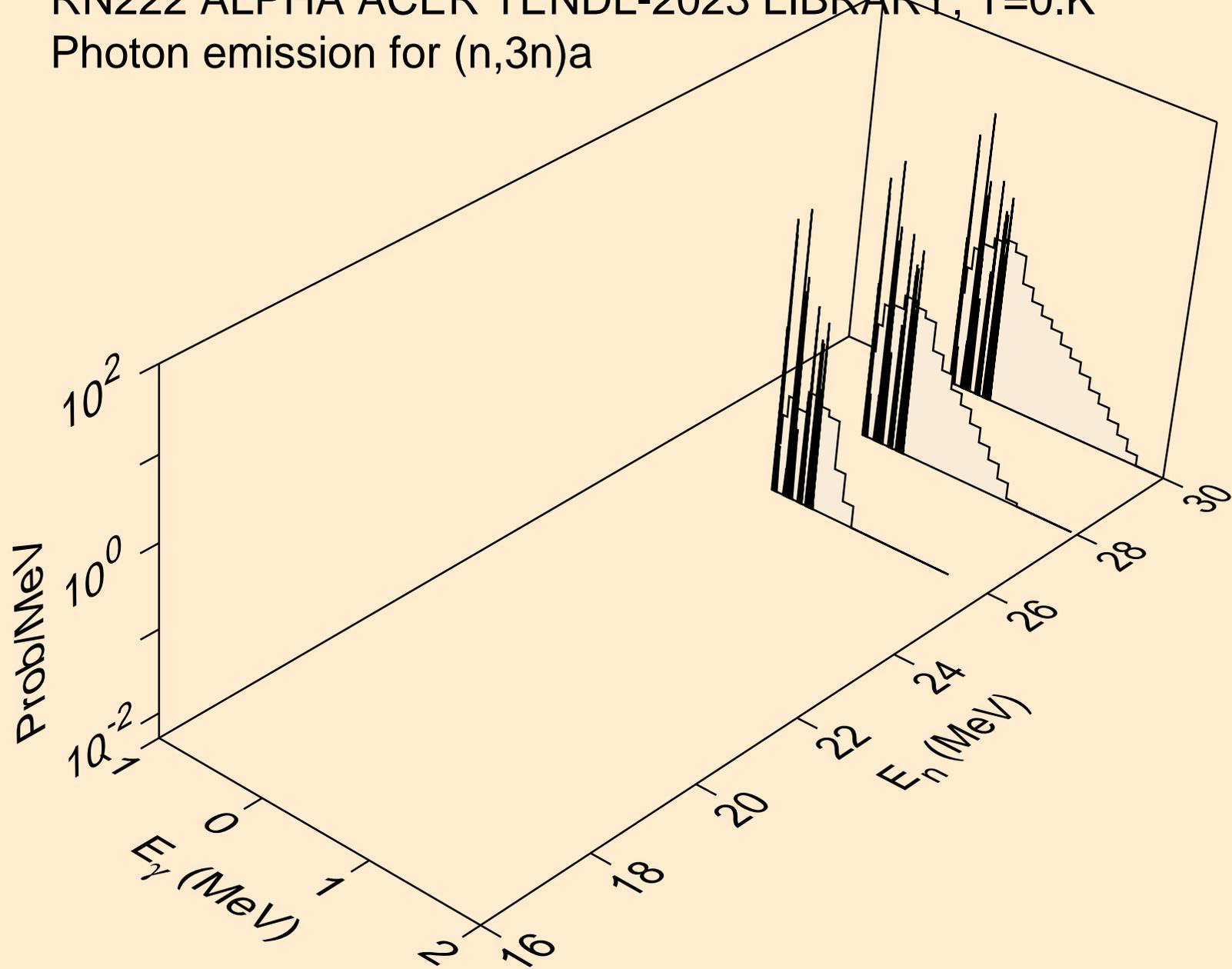RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,3n)

RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)a

Prob/MeV

10^0

10^{-2}
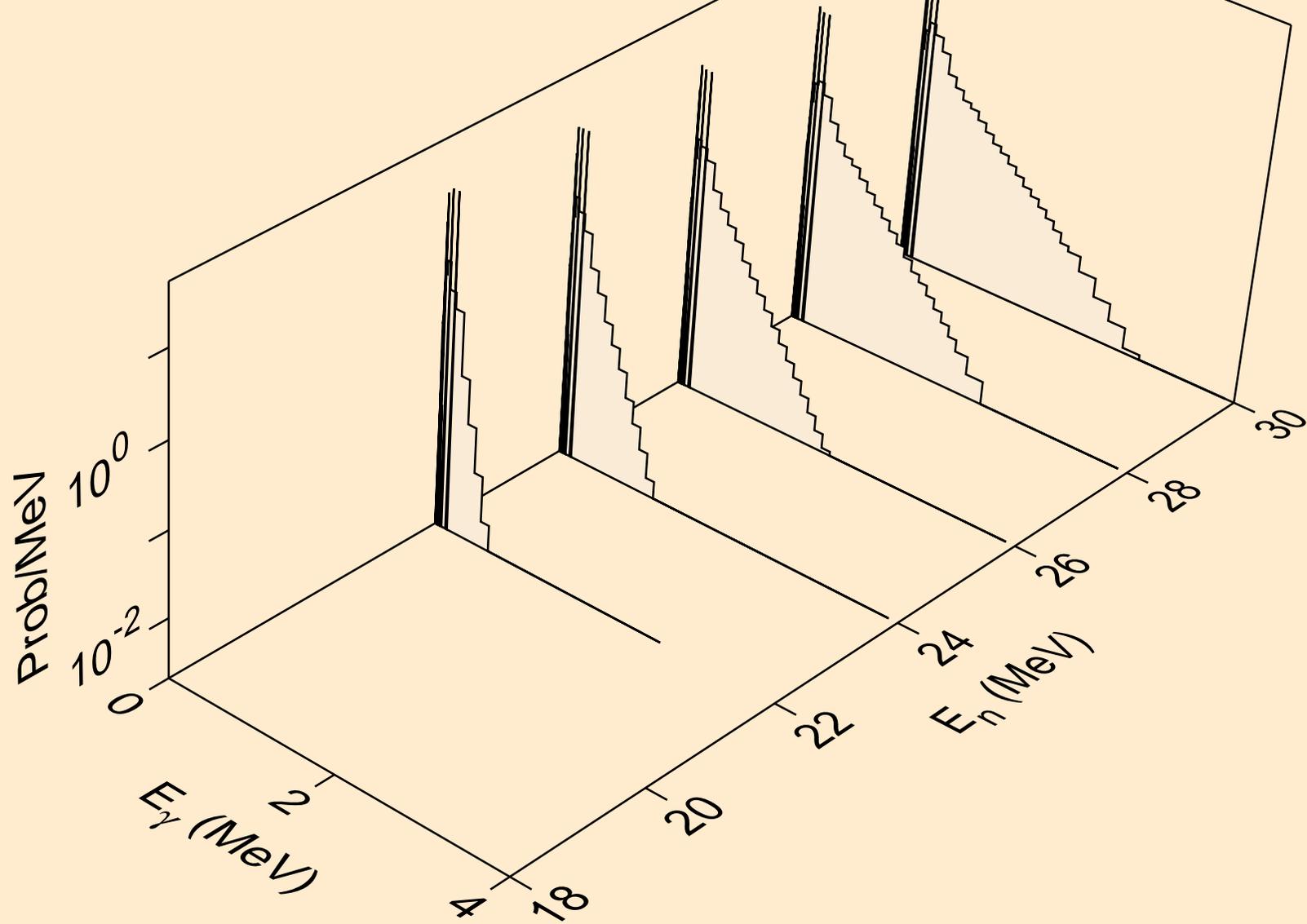
E_γ (MeV)

E_n (MeV)

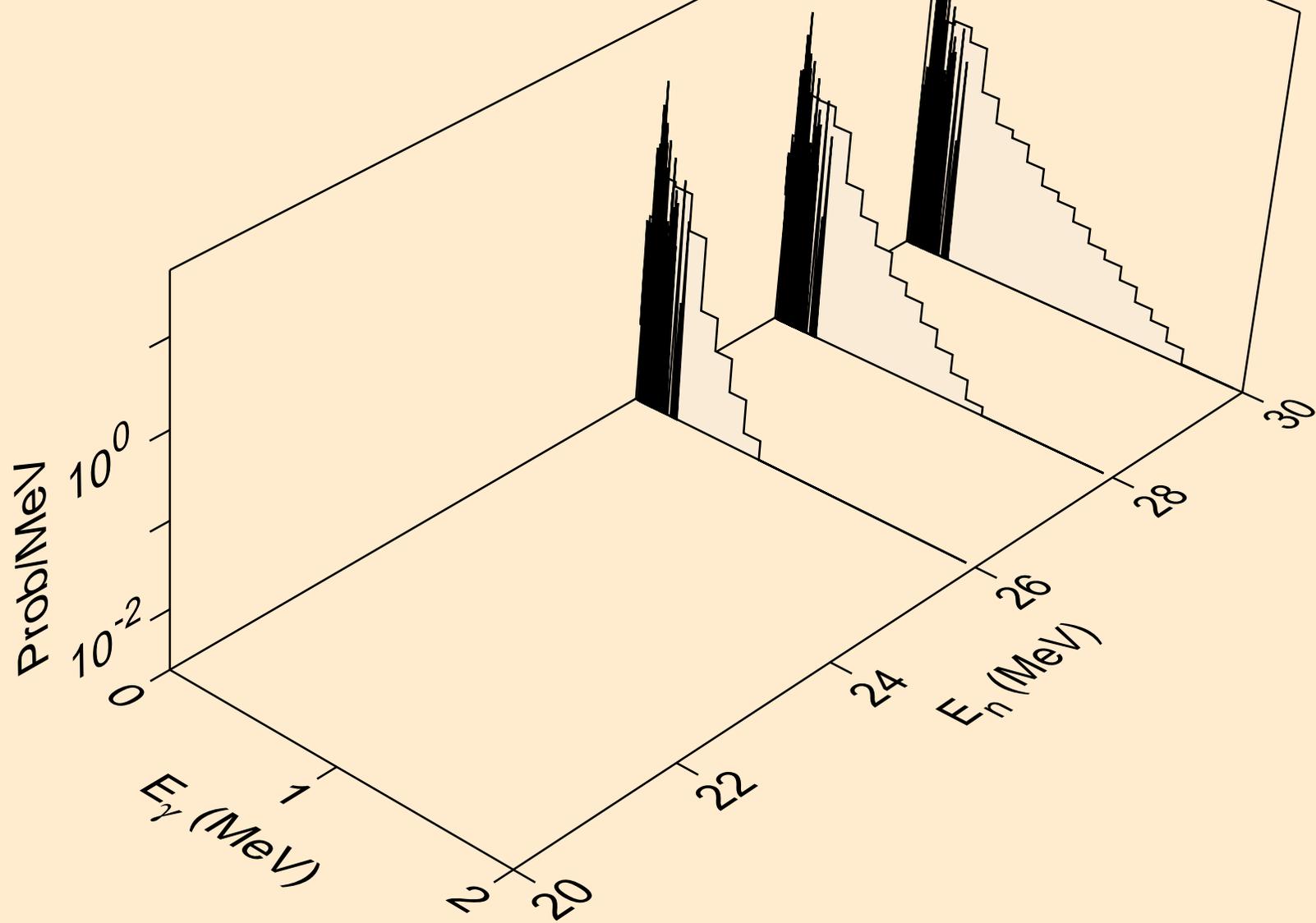RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2n)a

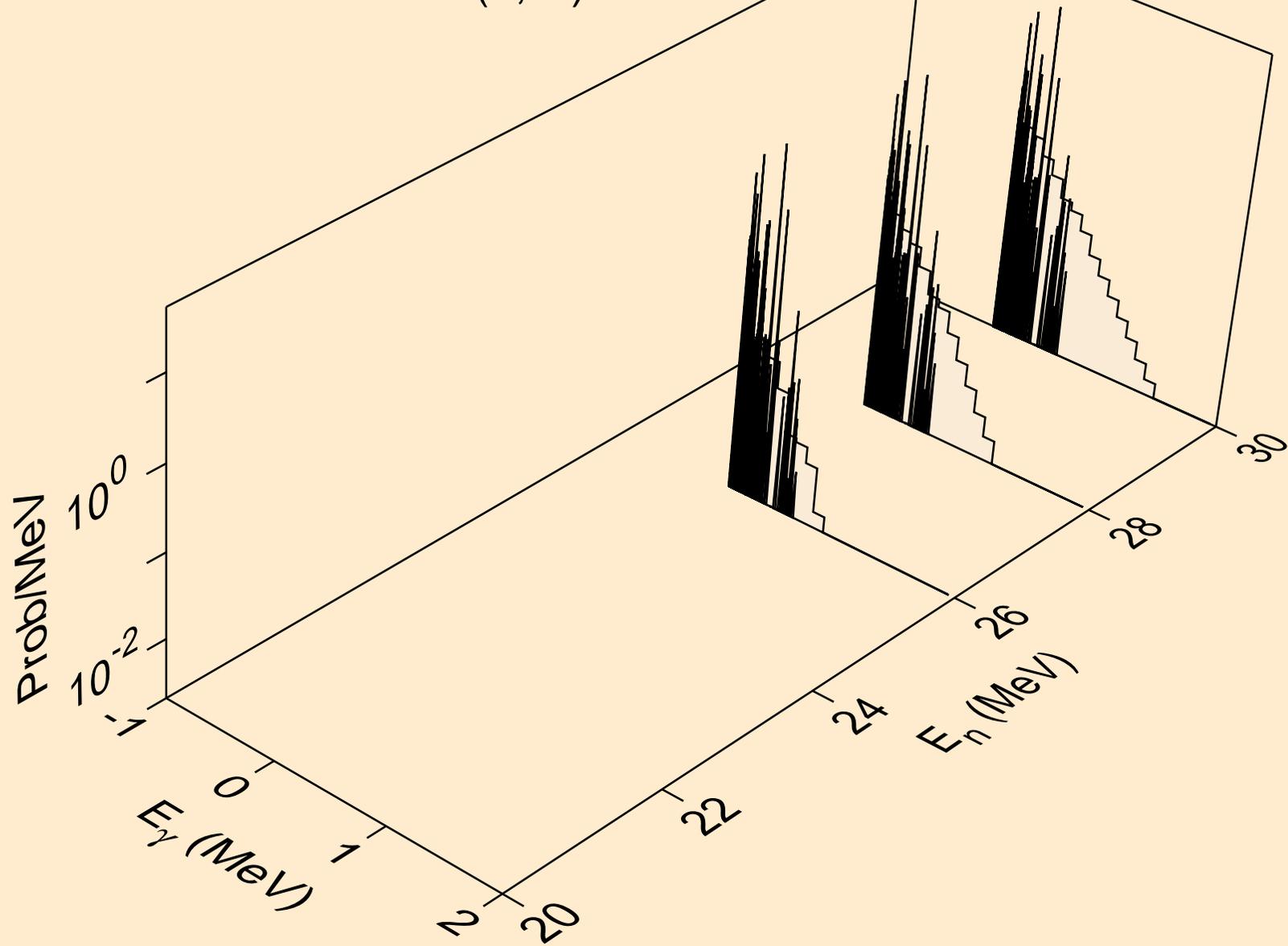RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,3n)a

RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)p
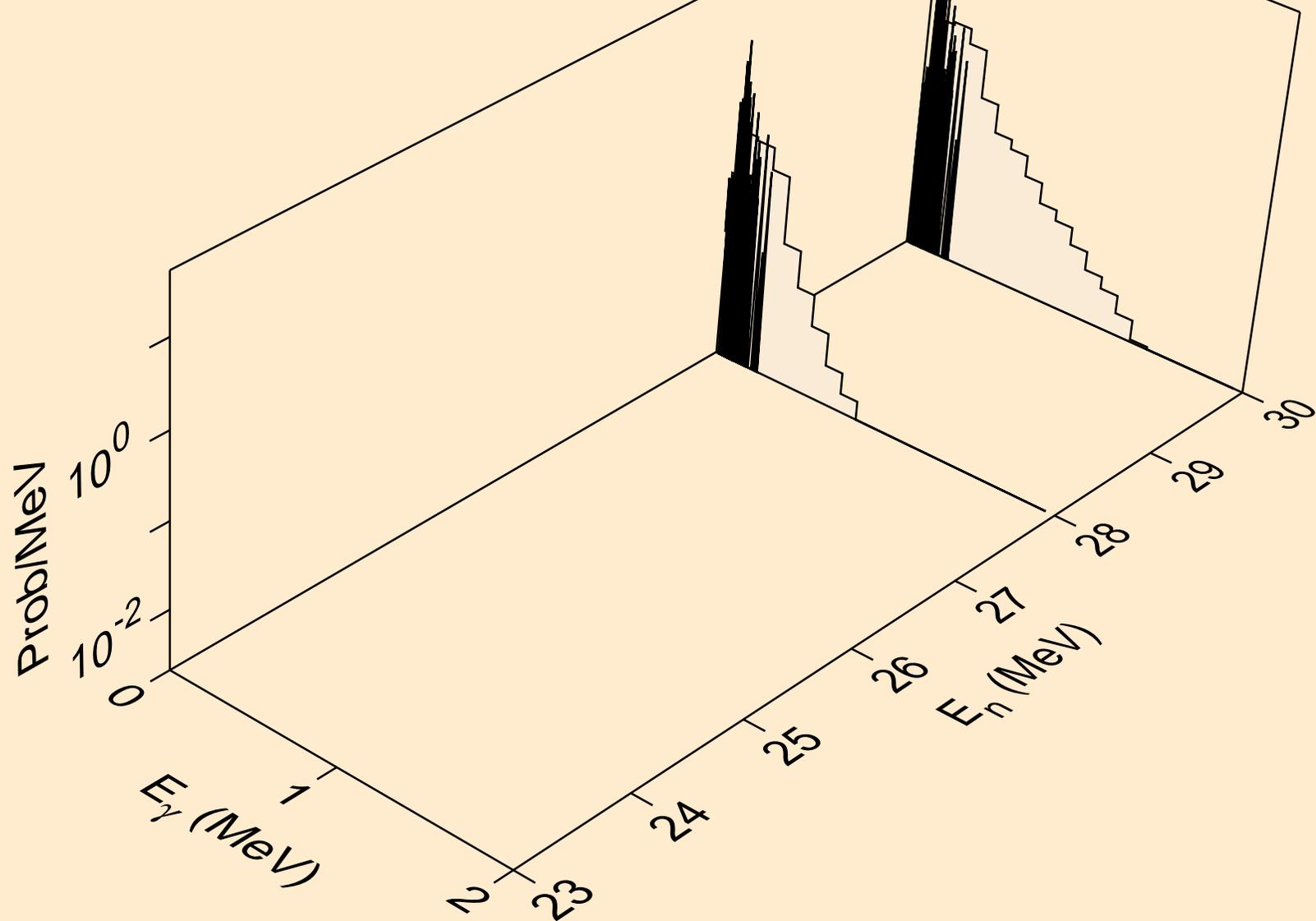
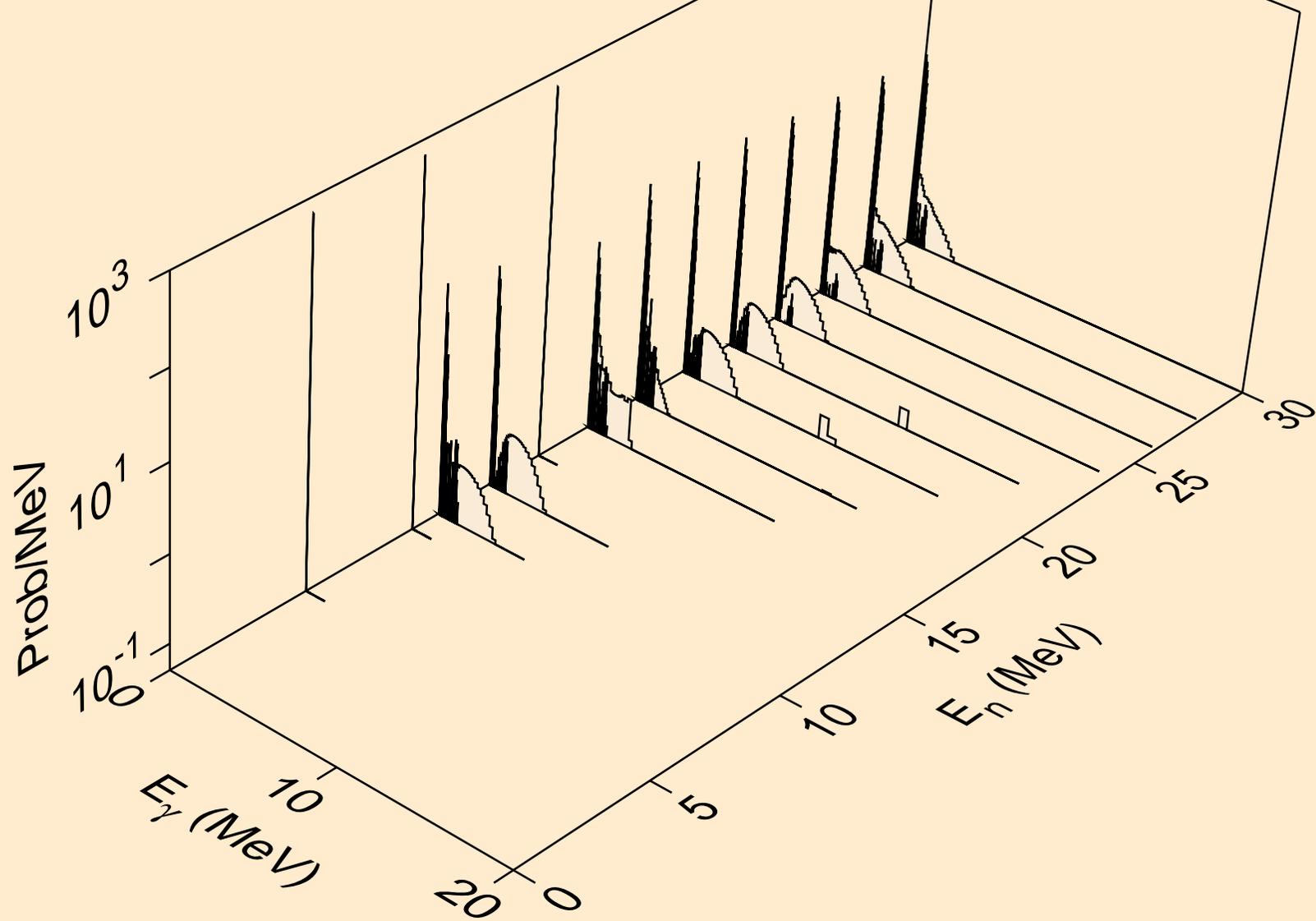RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)d

RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
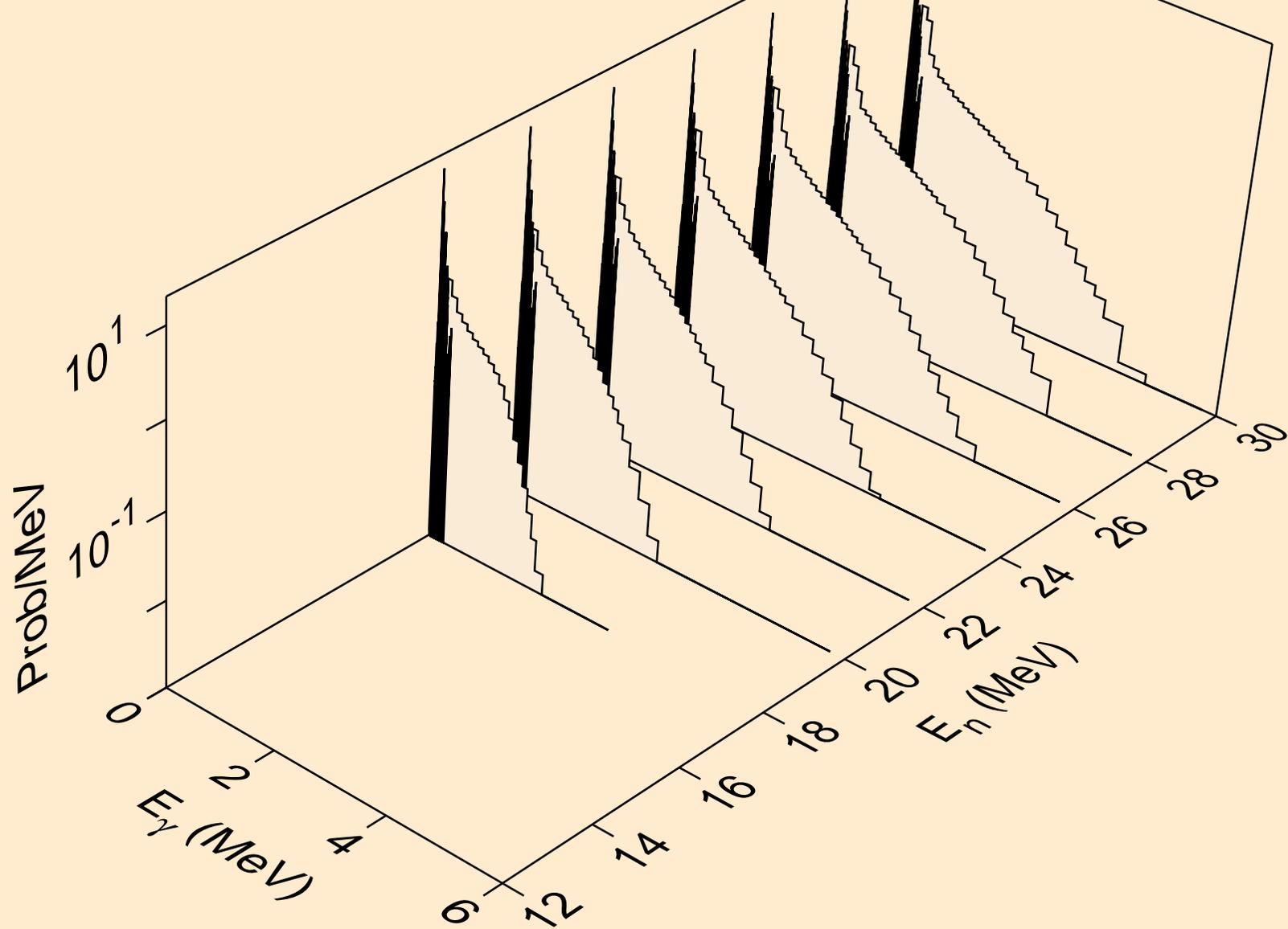Photon emission for (n,n*)t

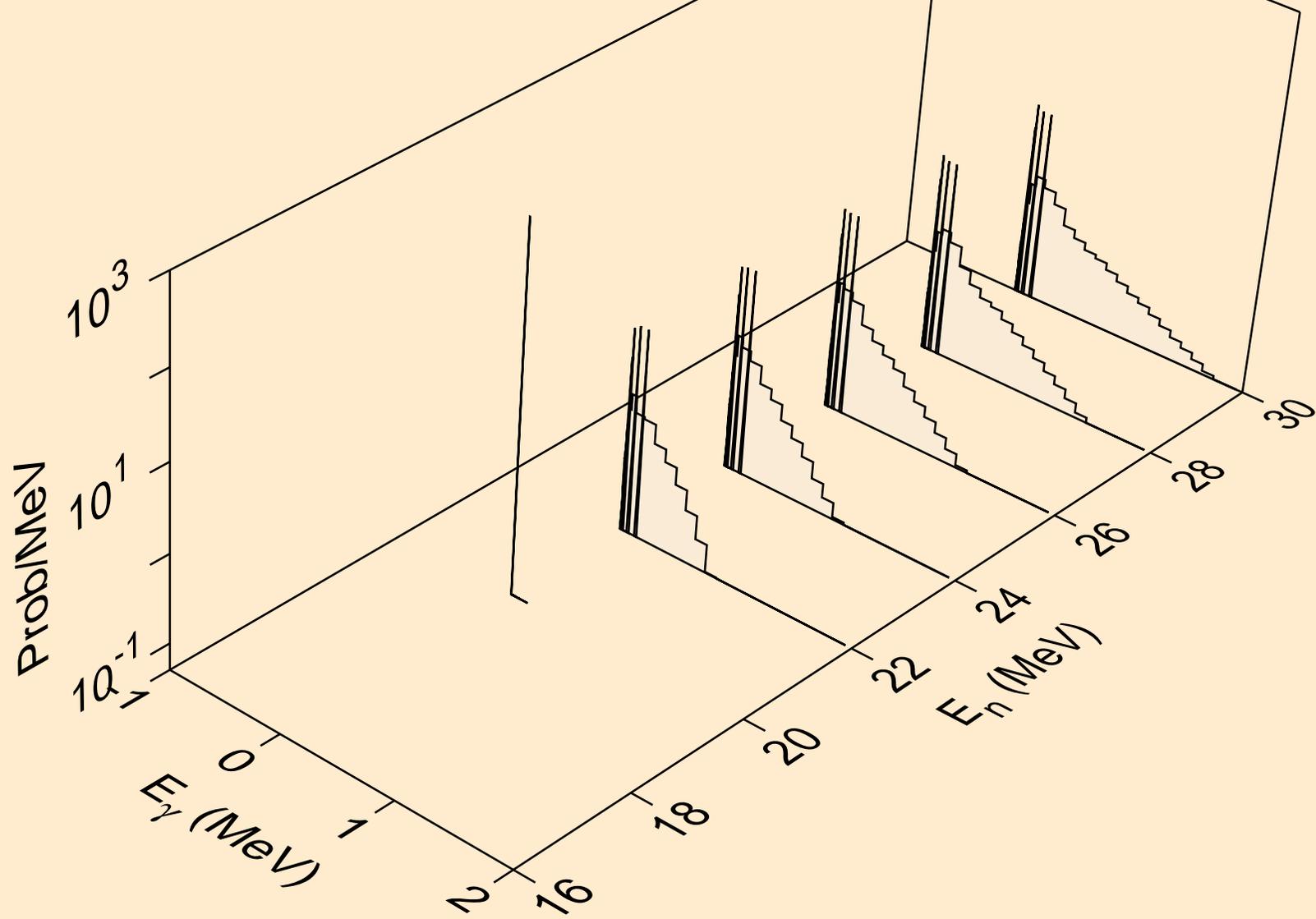RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2np)

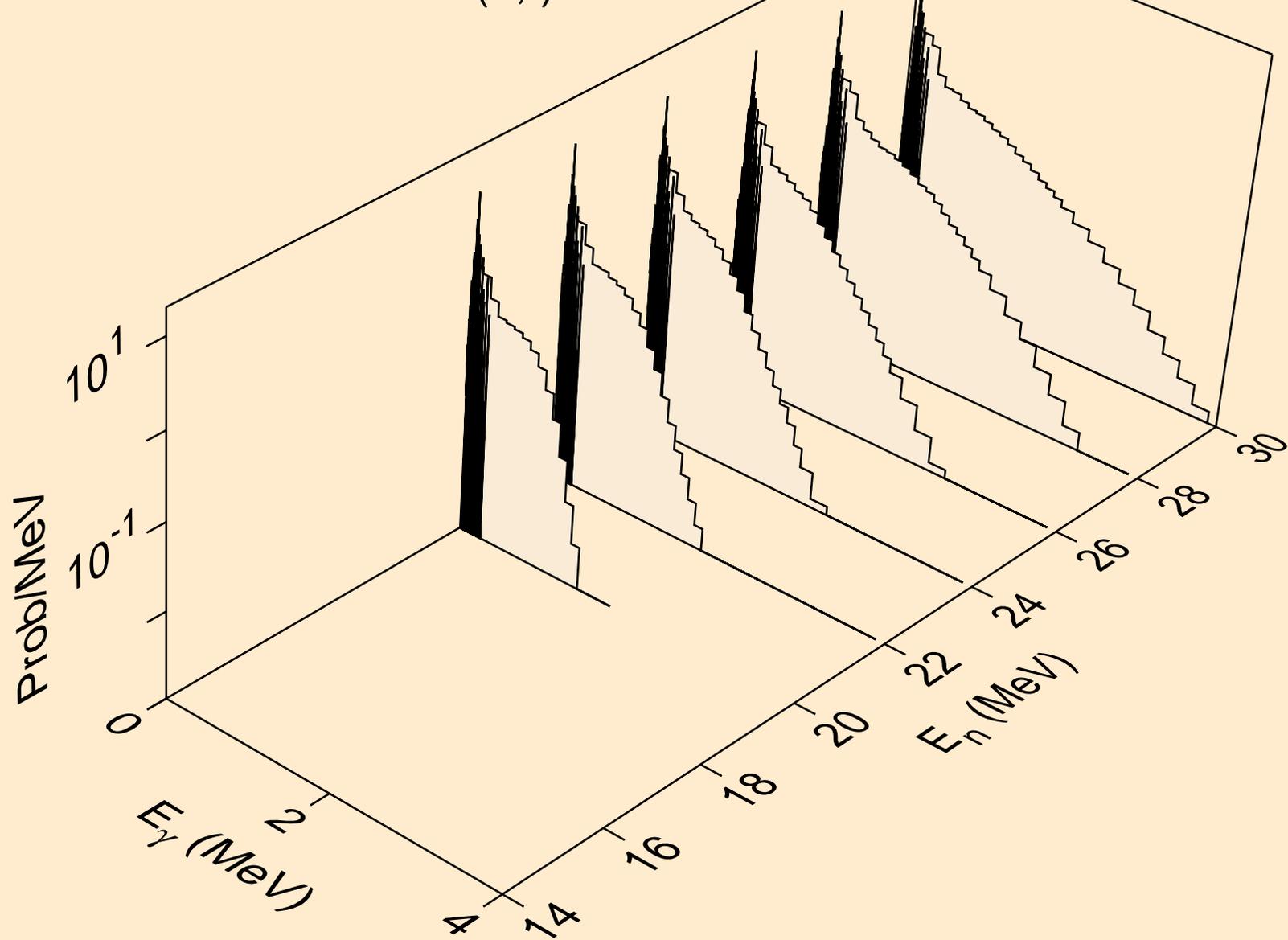RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,gma)

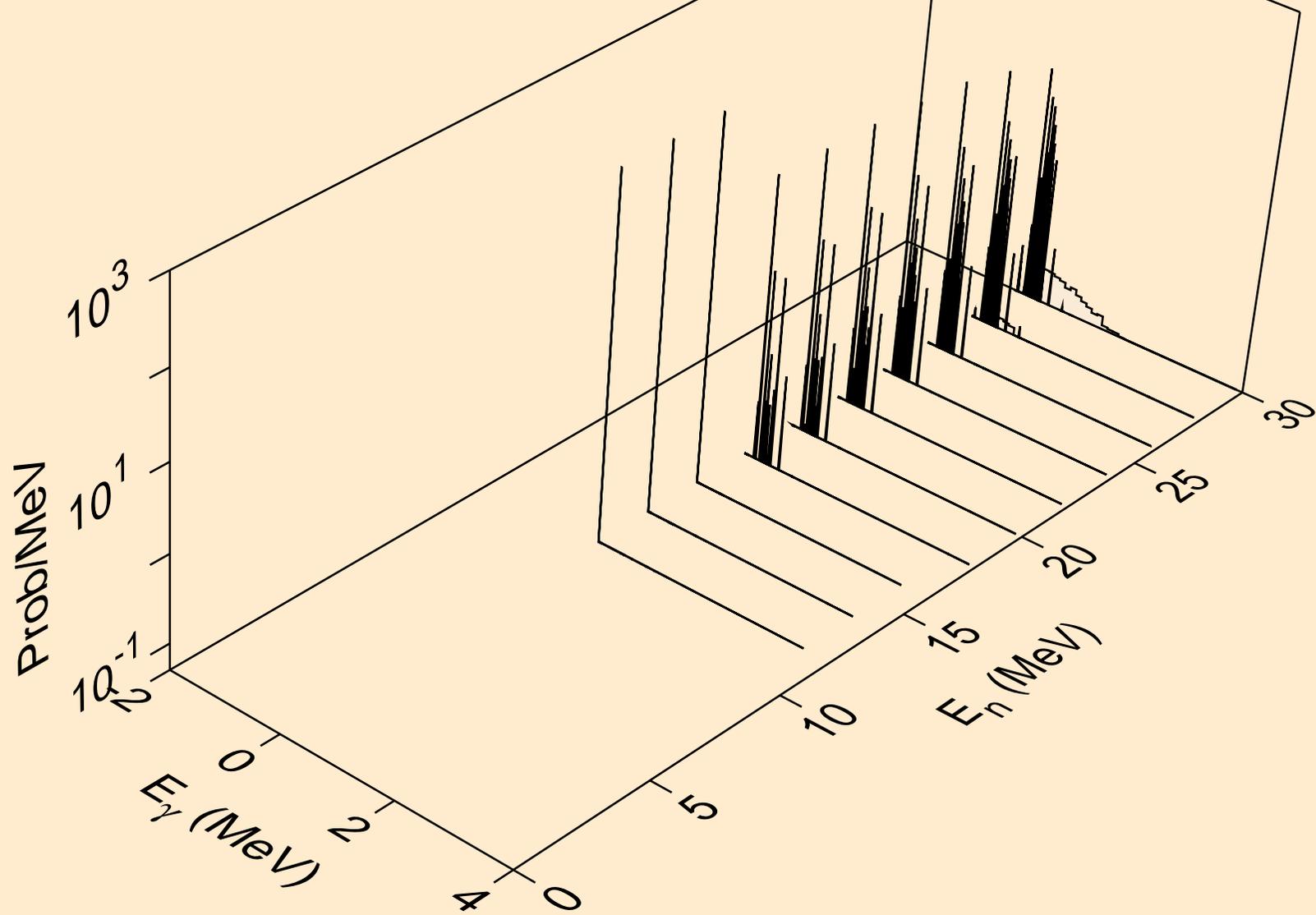RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,p)

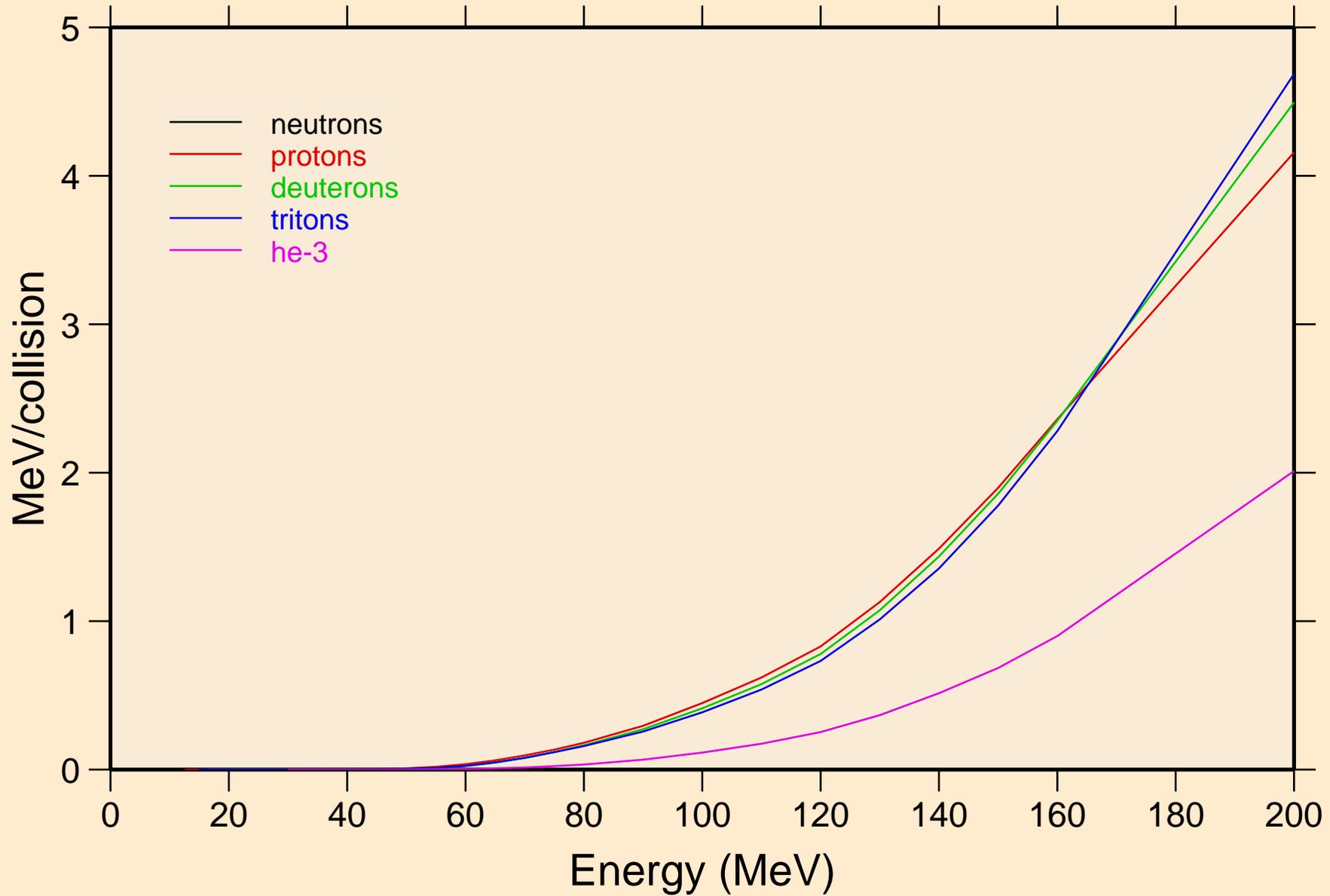RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,d)

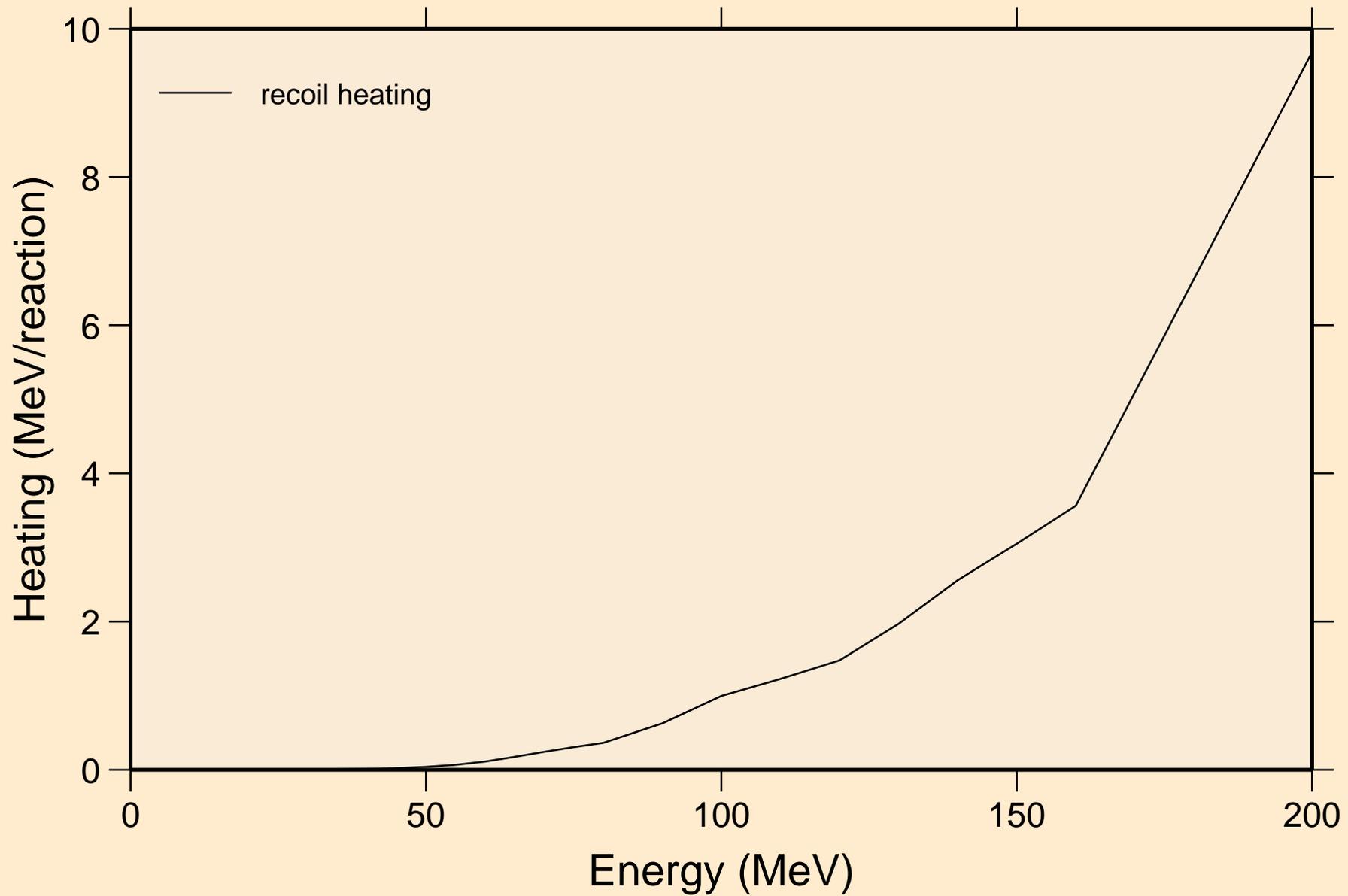RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,t)

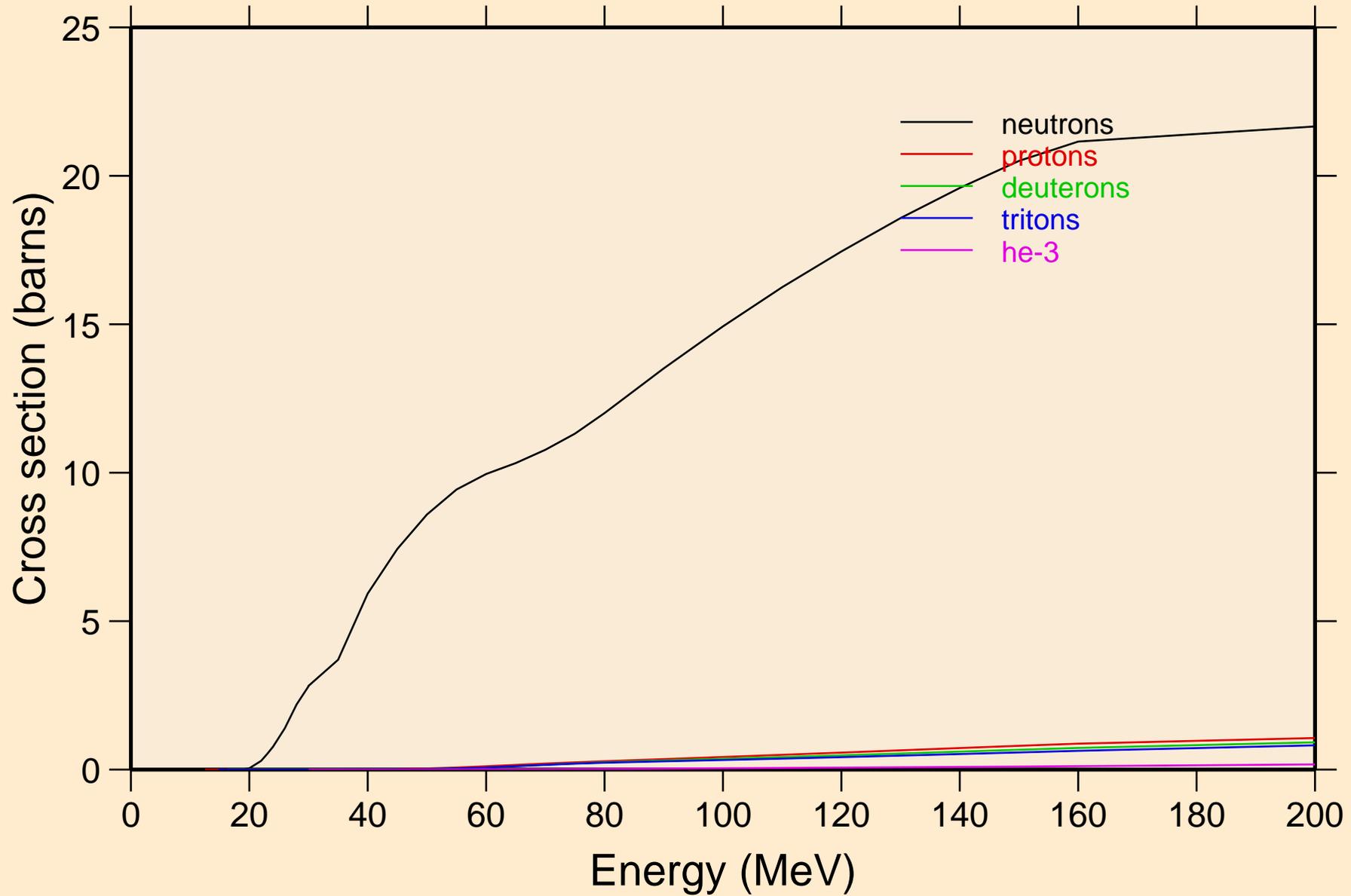RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for inelastic

RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
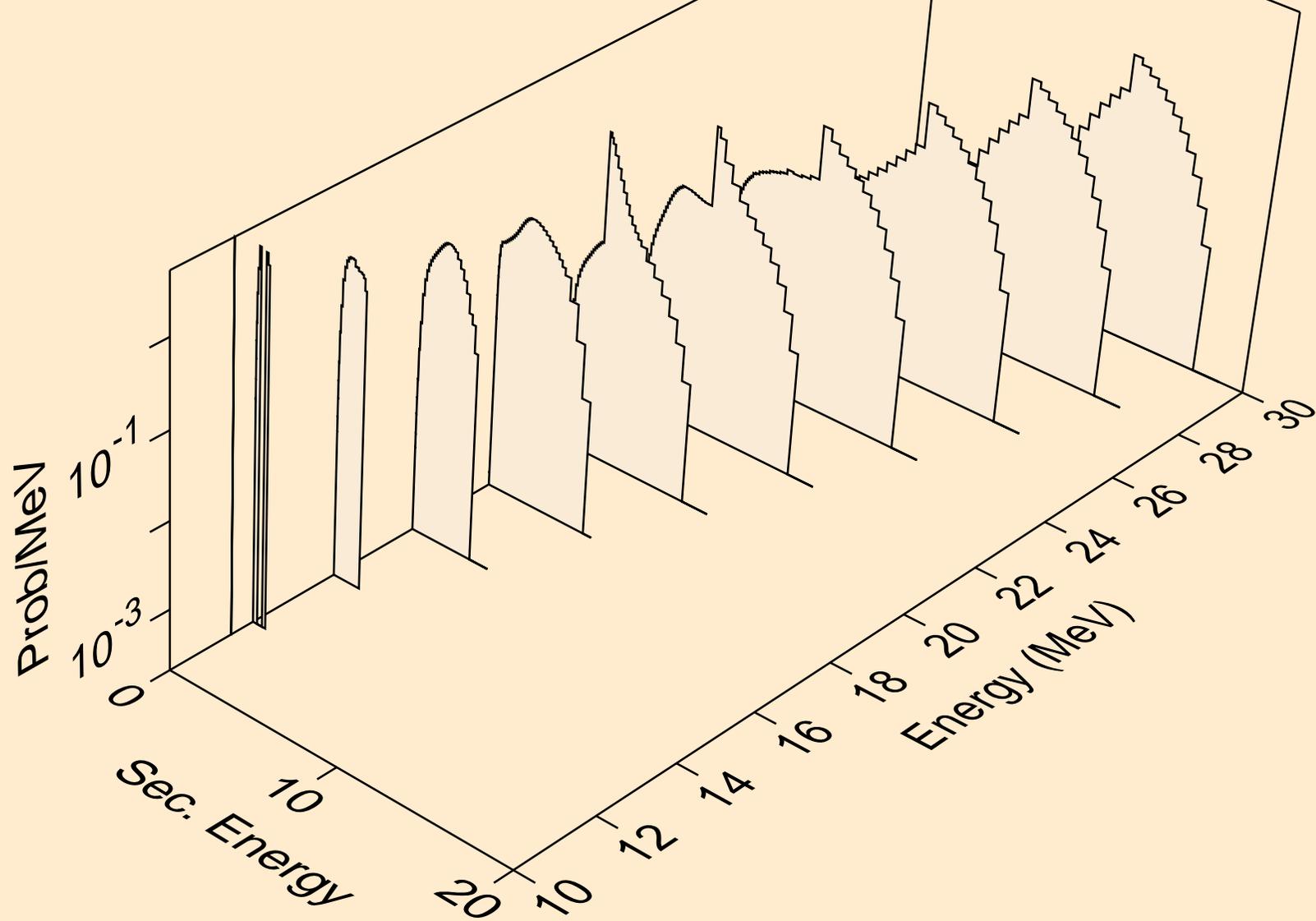Particle heating contributions

RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
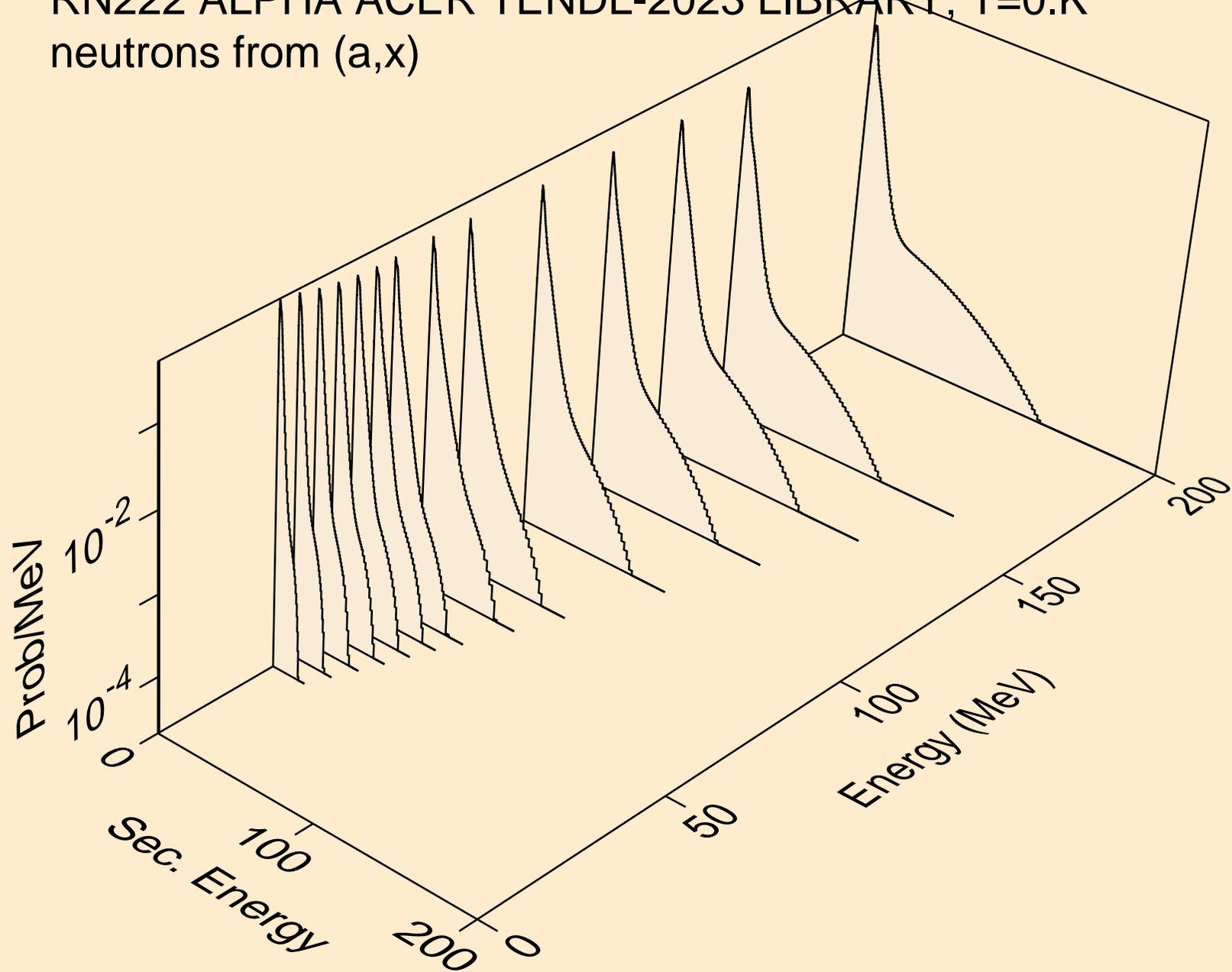Recoil Heating

recoil heating

RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
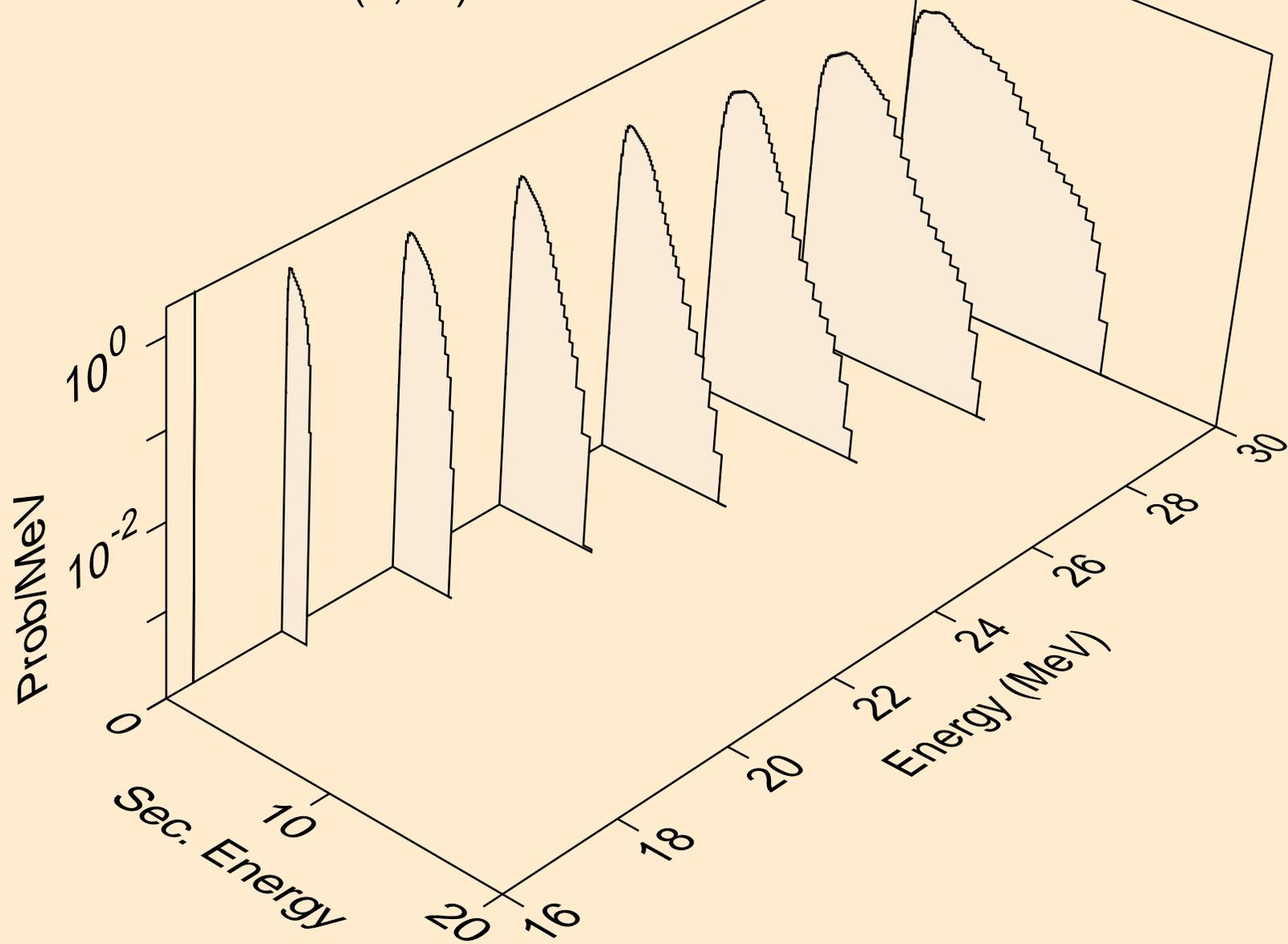Particle production cross sections

RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
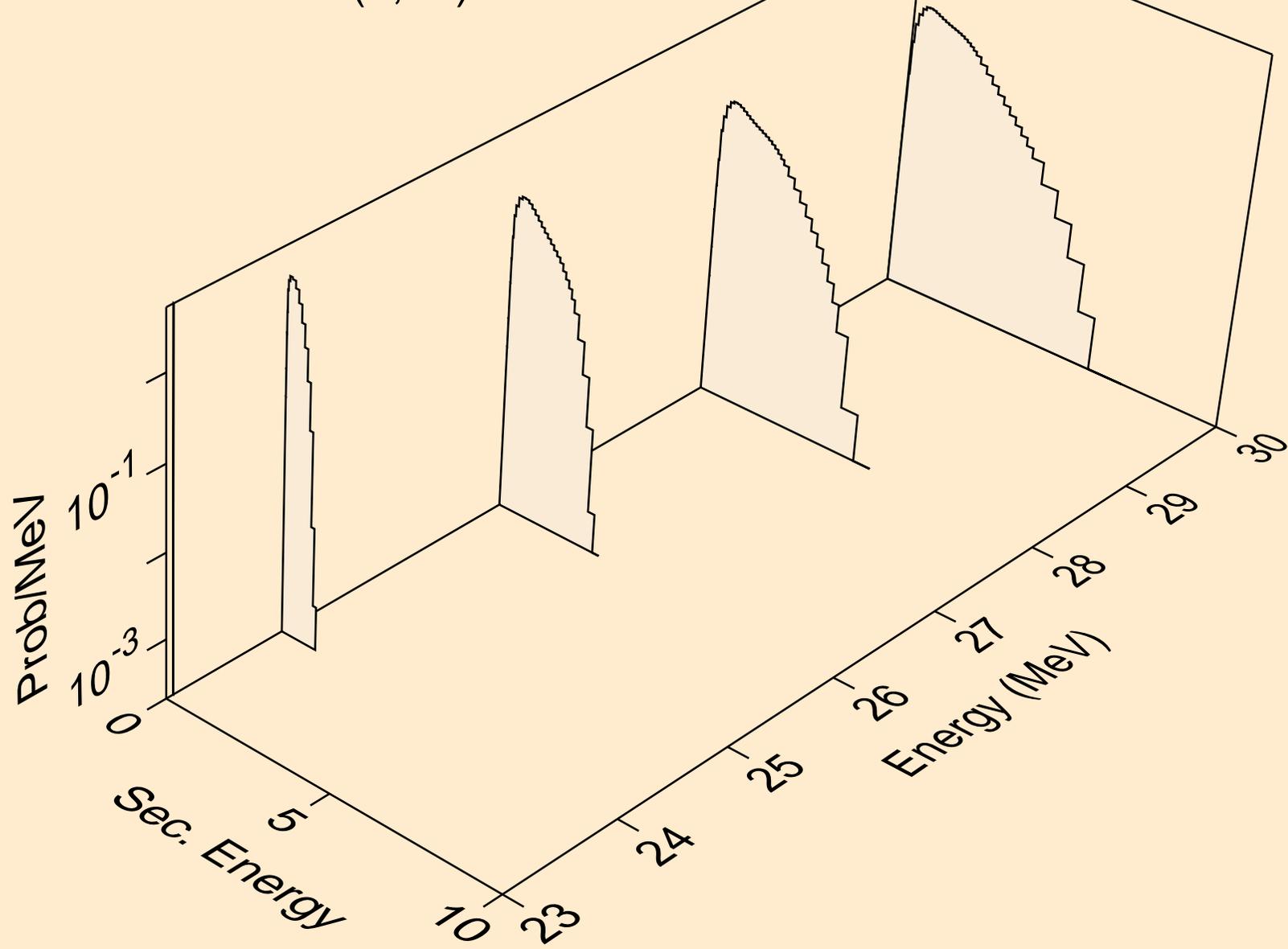neutrons from (a,n)

RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
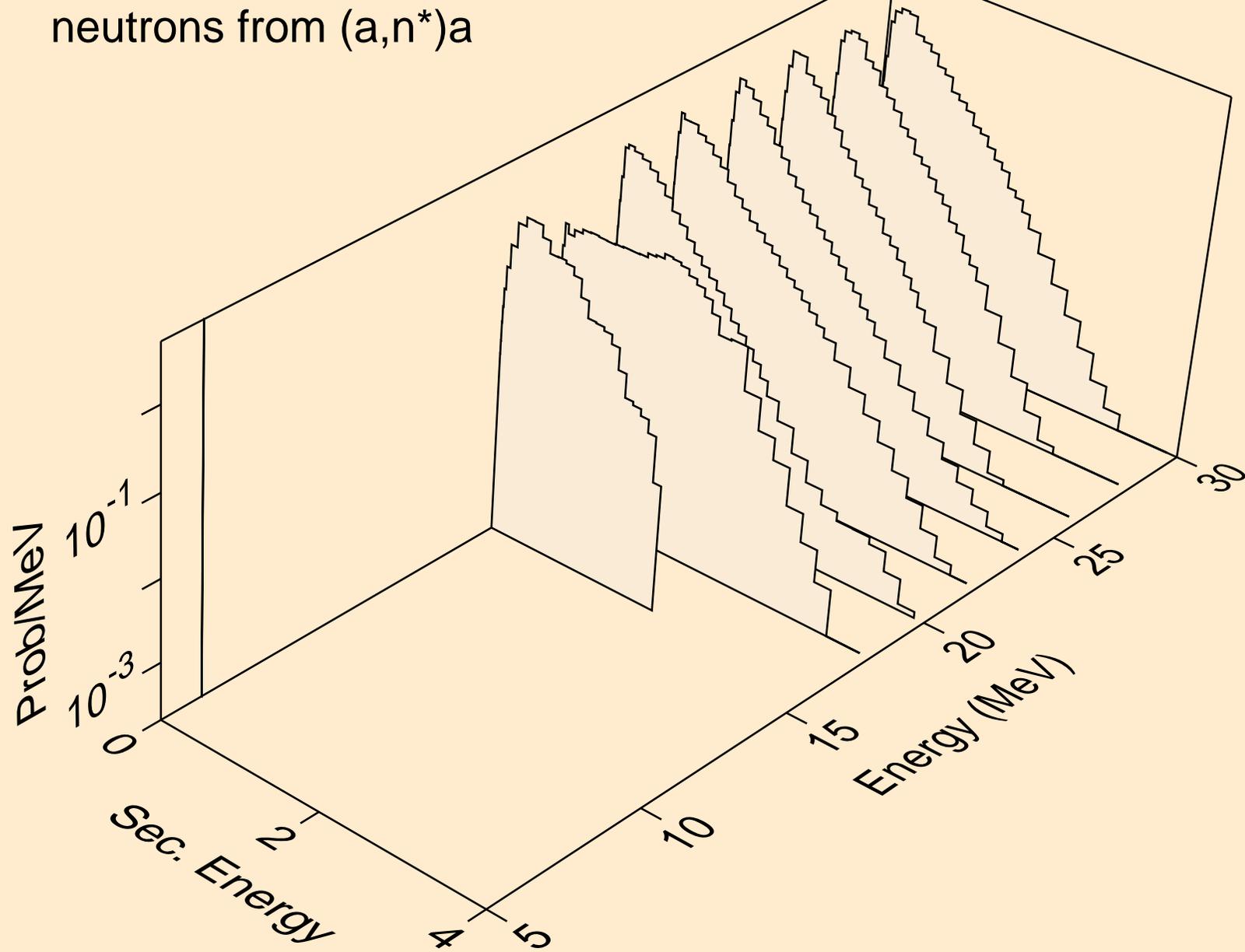neutrons from (a,x)

RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (a,2n)

RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (a,3n)

RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (a,n*)a

RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
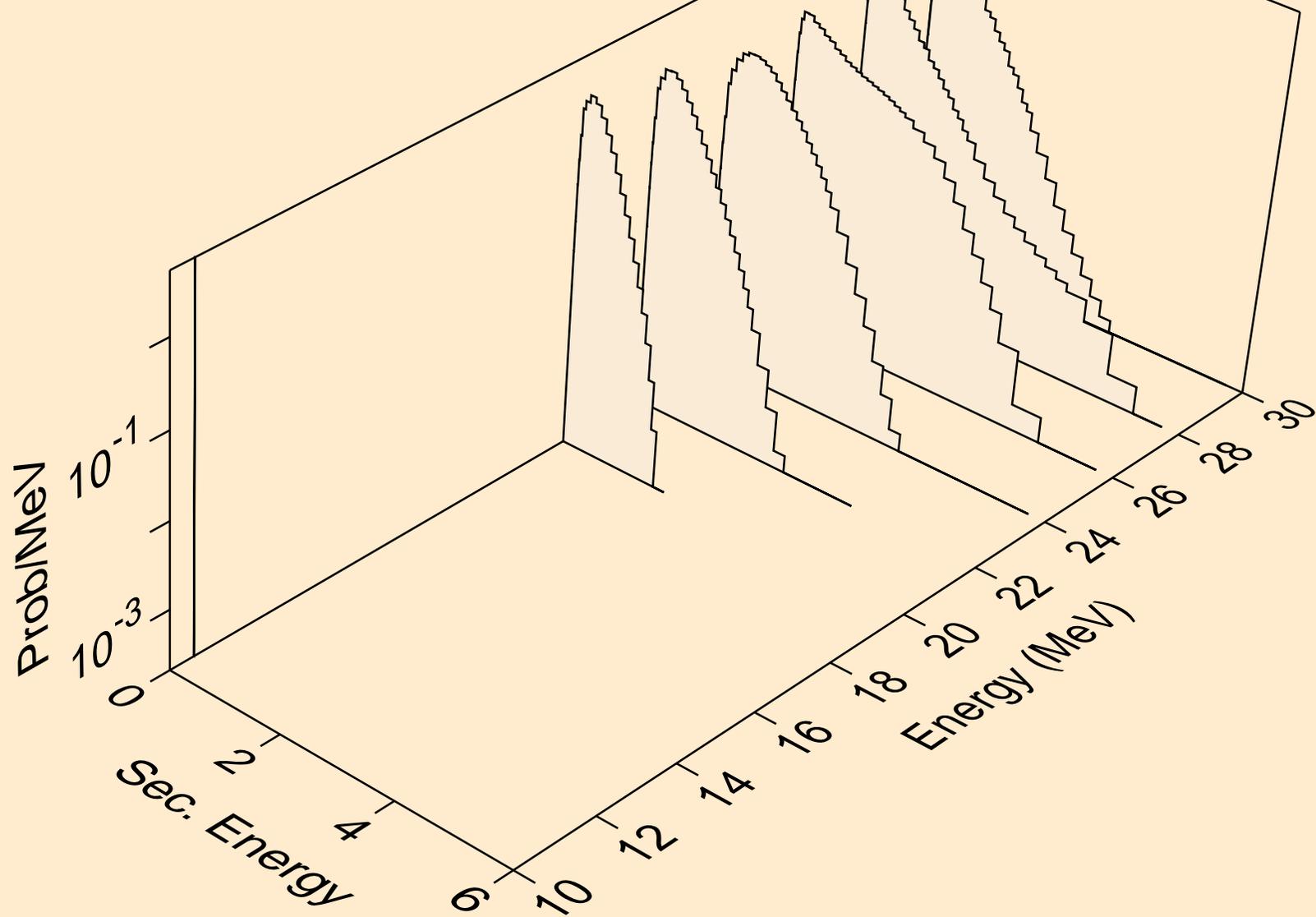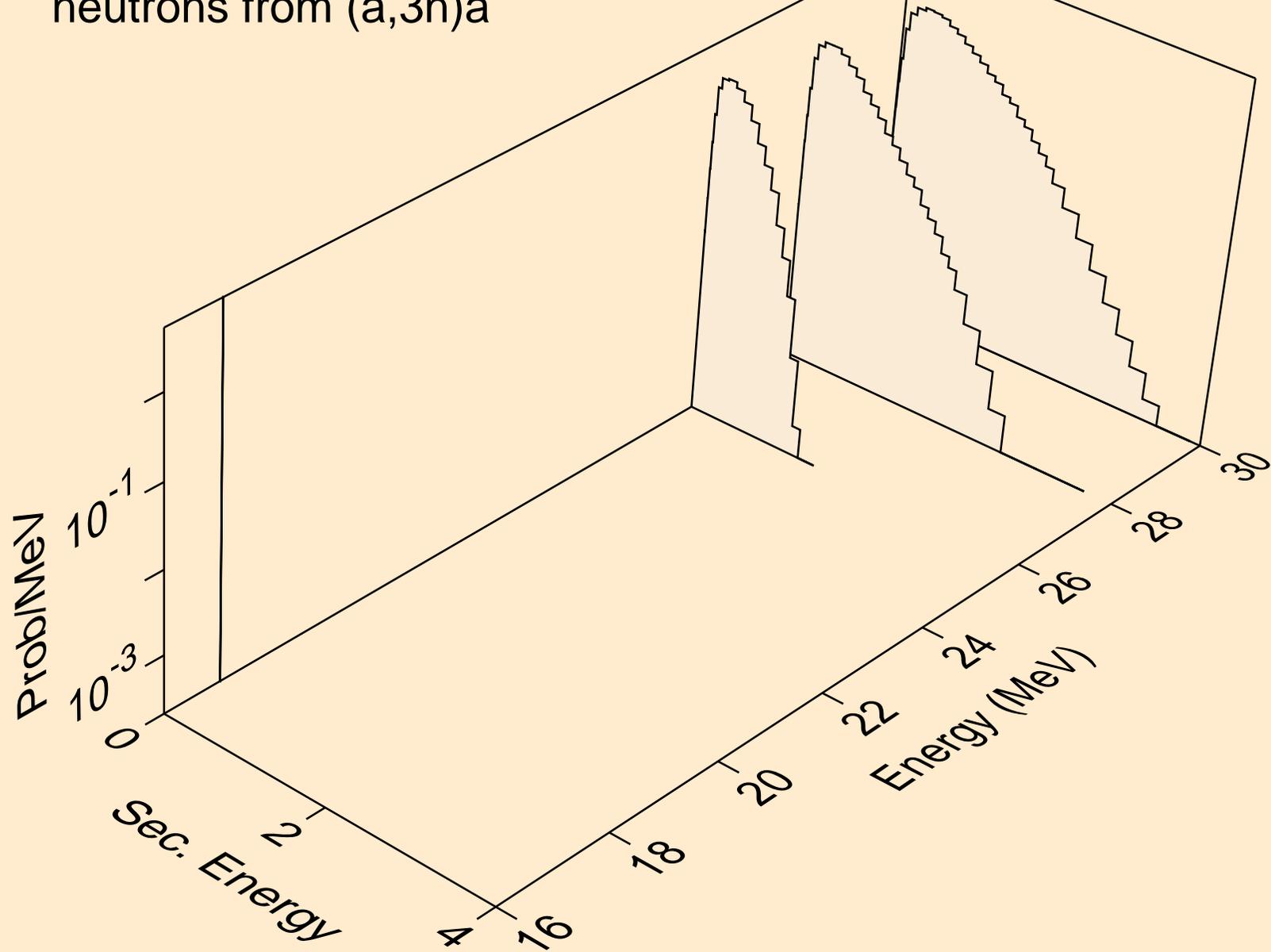neutrons from (a,2n)a

RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (a,3n)a

RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
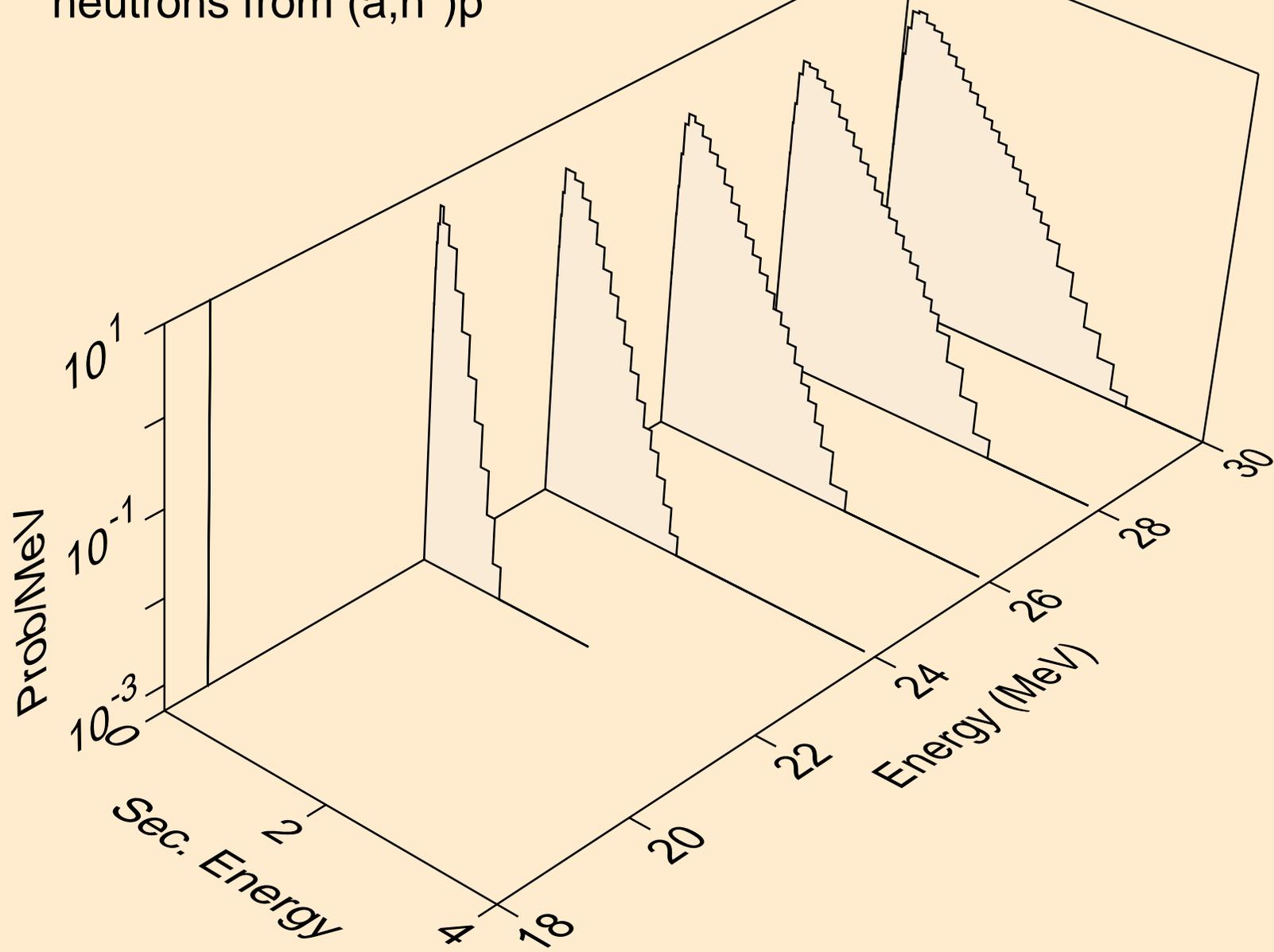neutrons from (a,n*)p

RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (a,n*)d
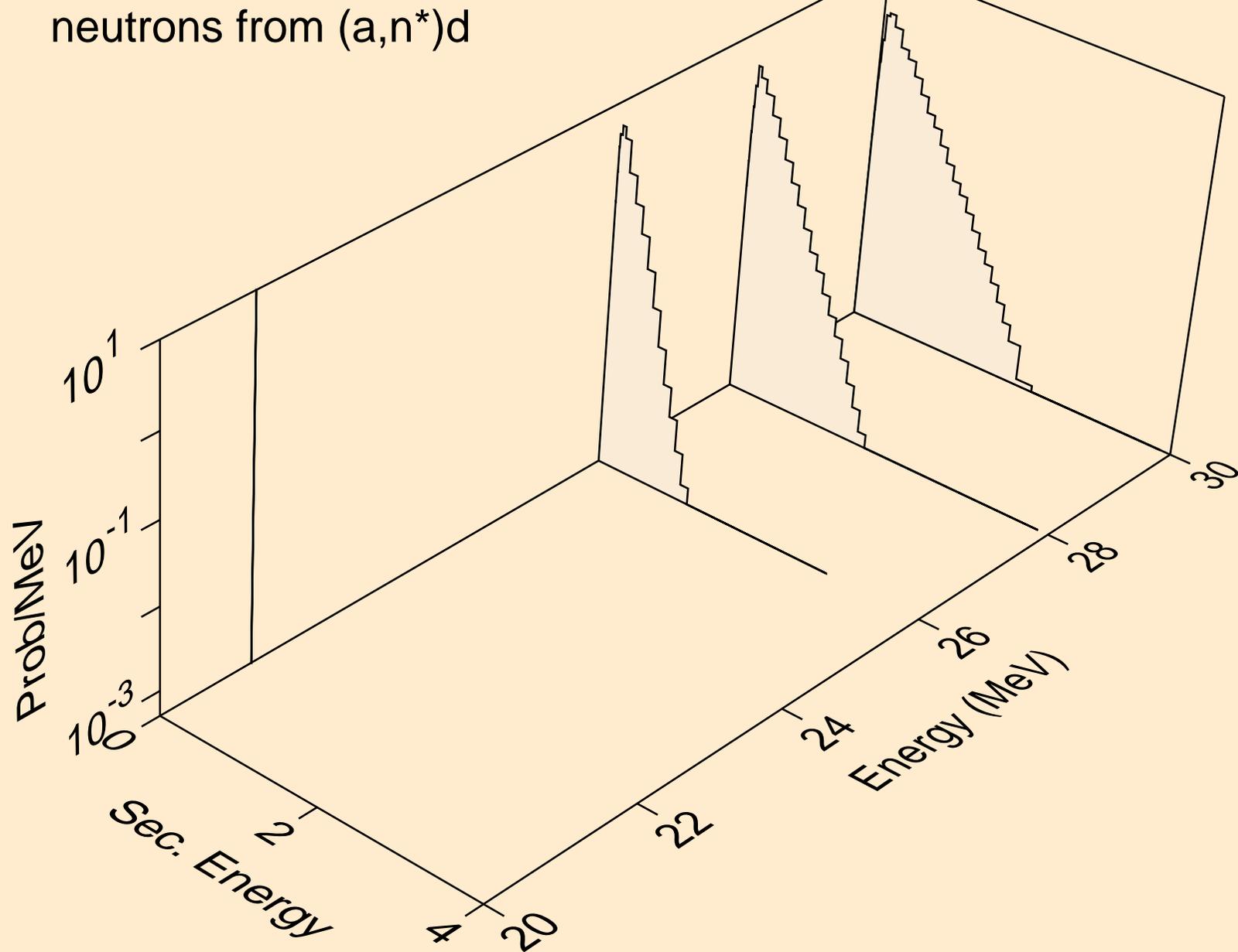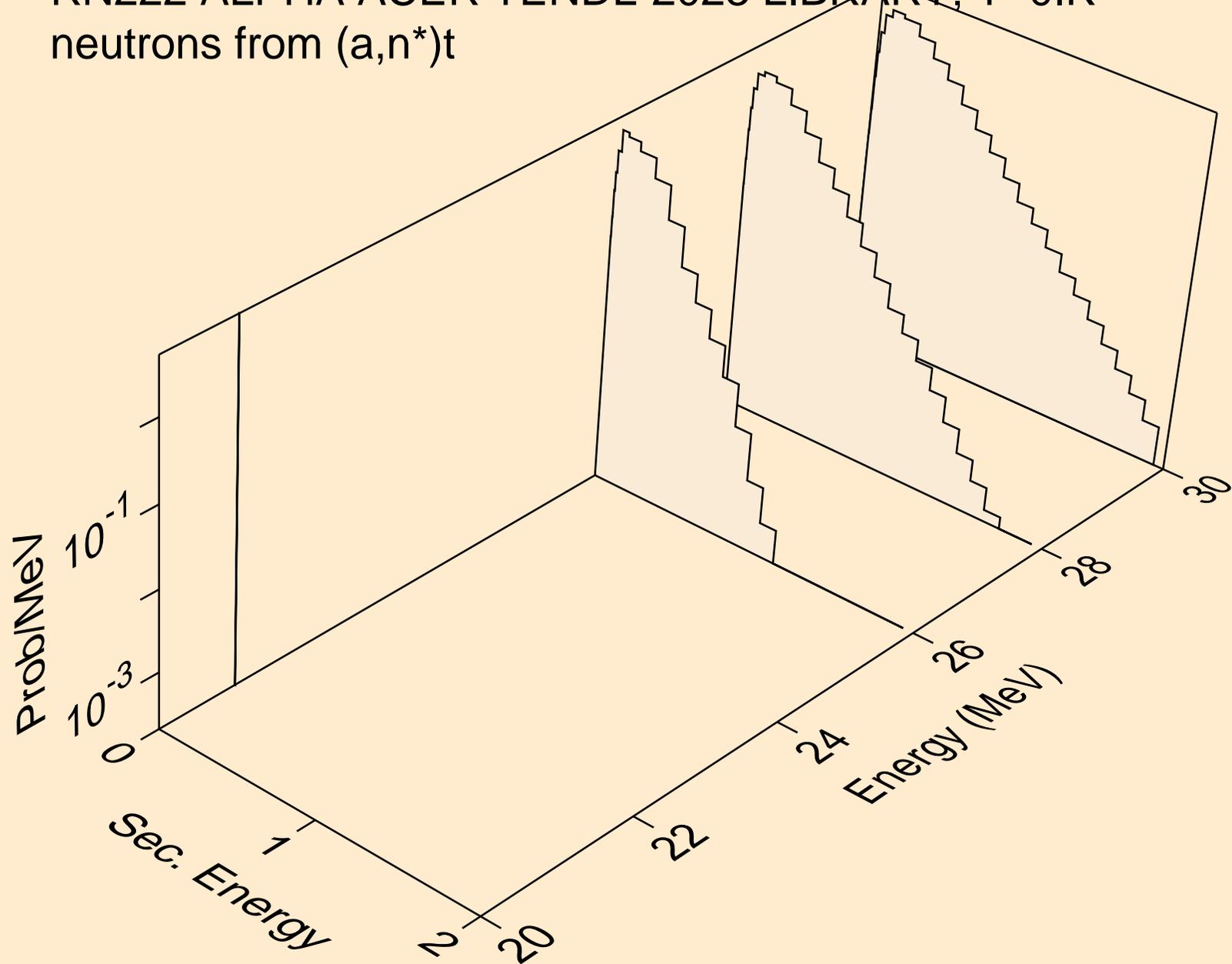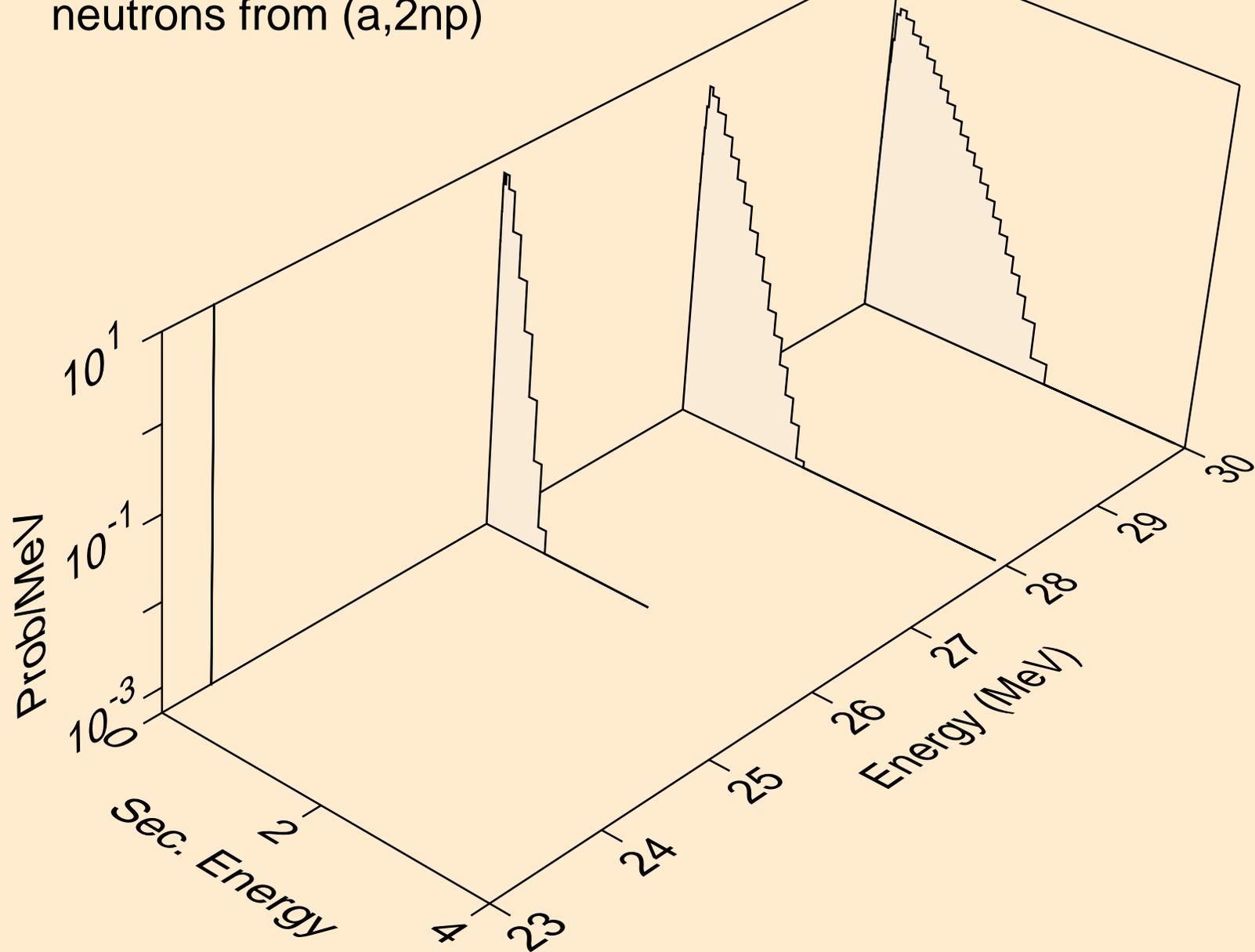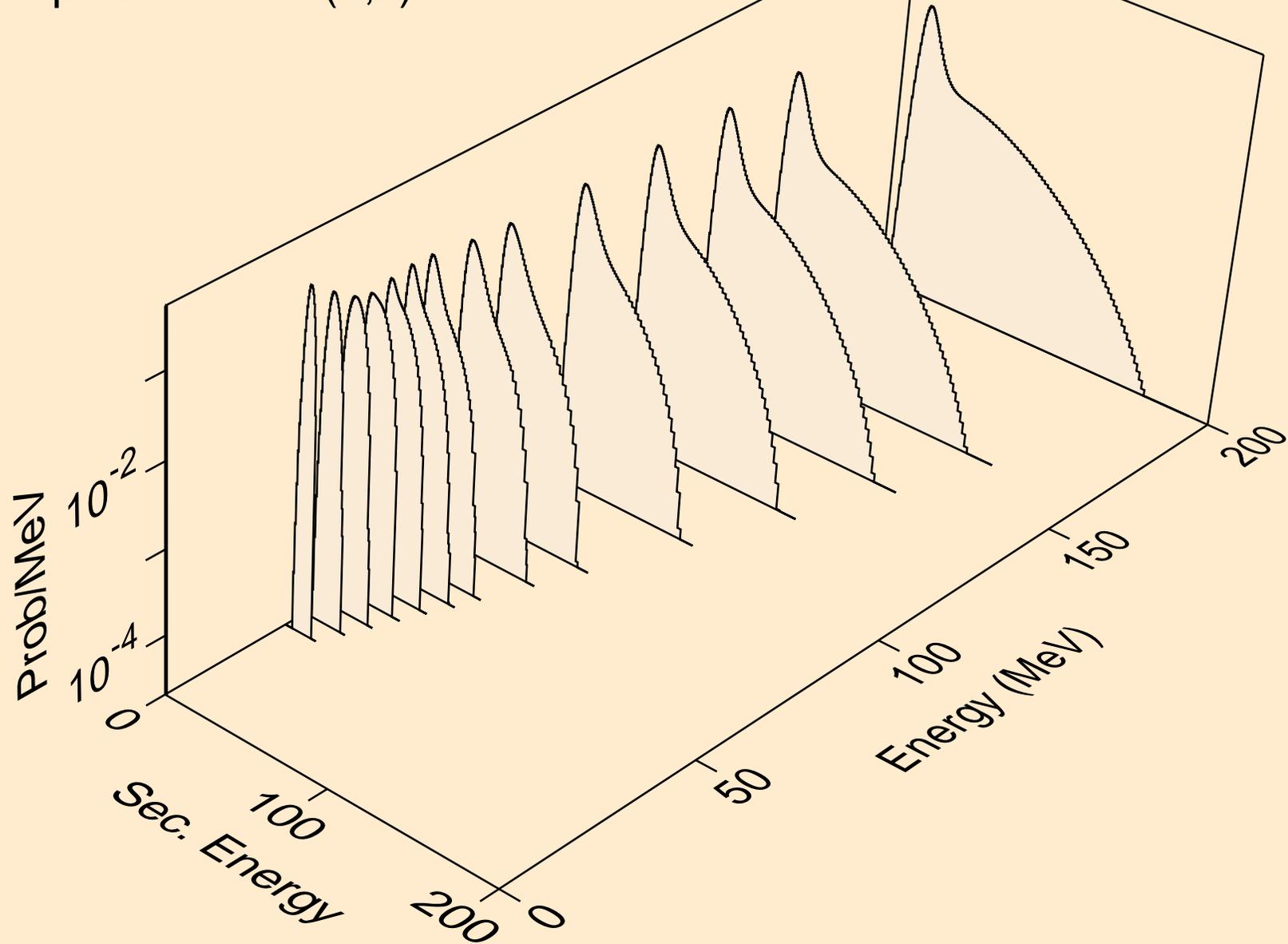
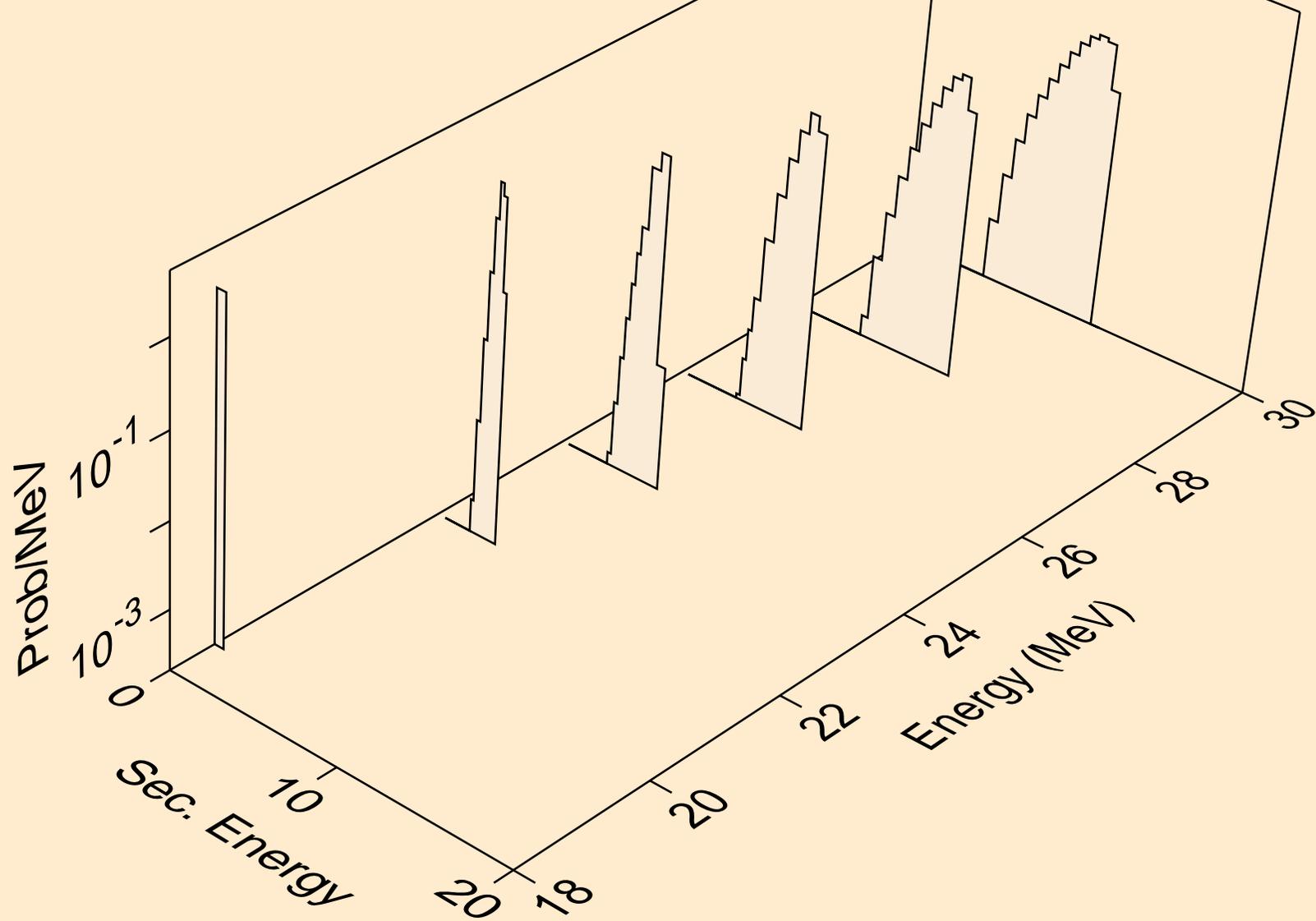RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (a,n*)t

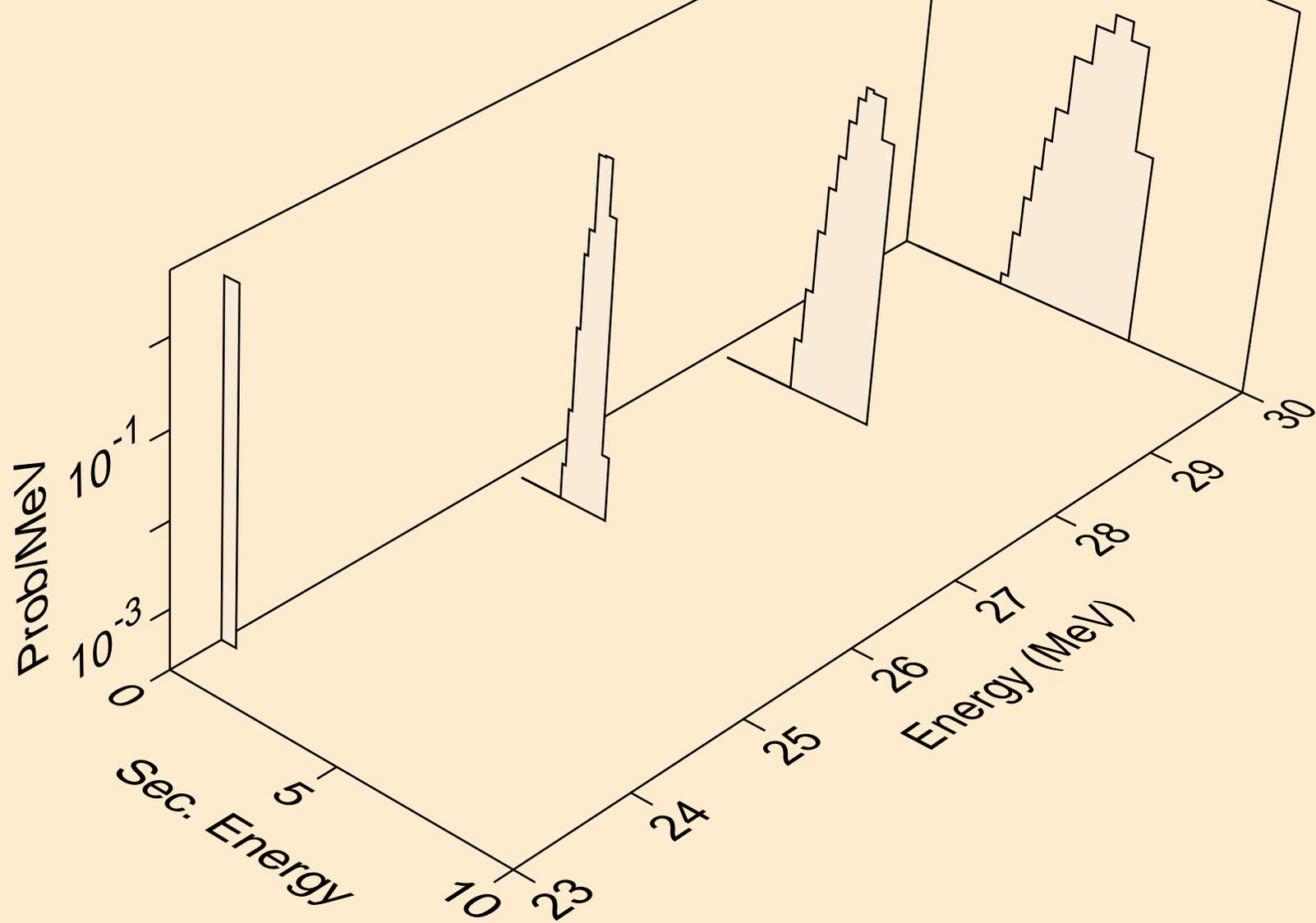RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (a,2np)

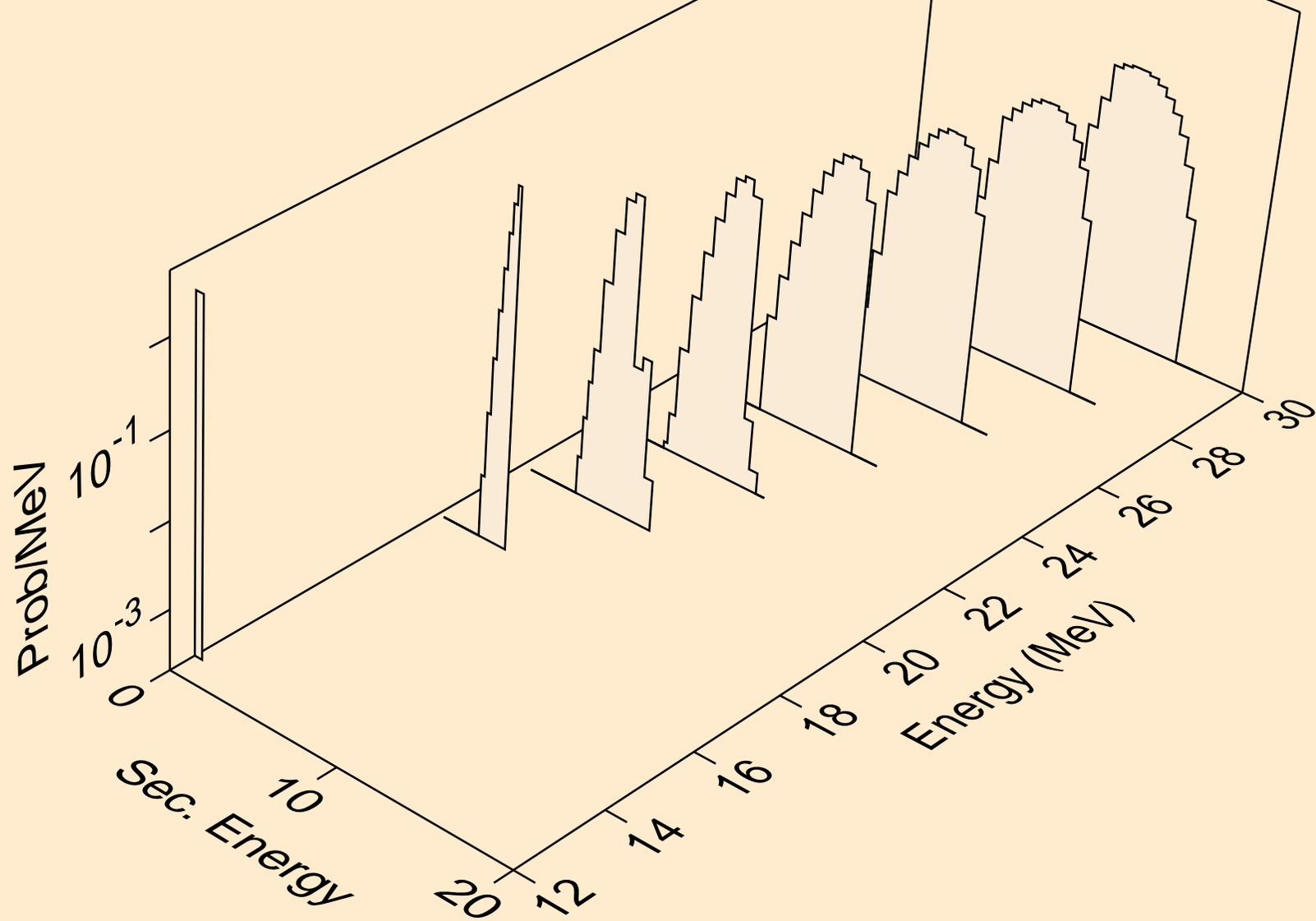RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
protons from (a,x)

RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
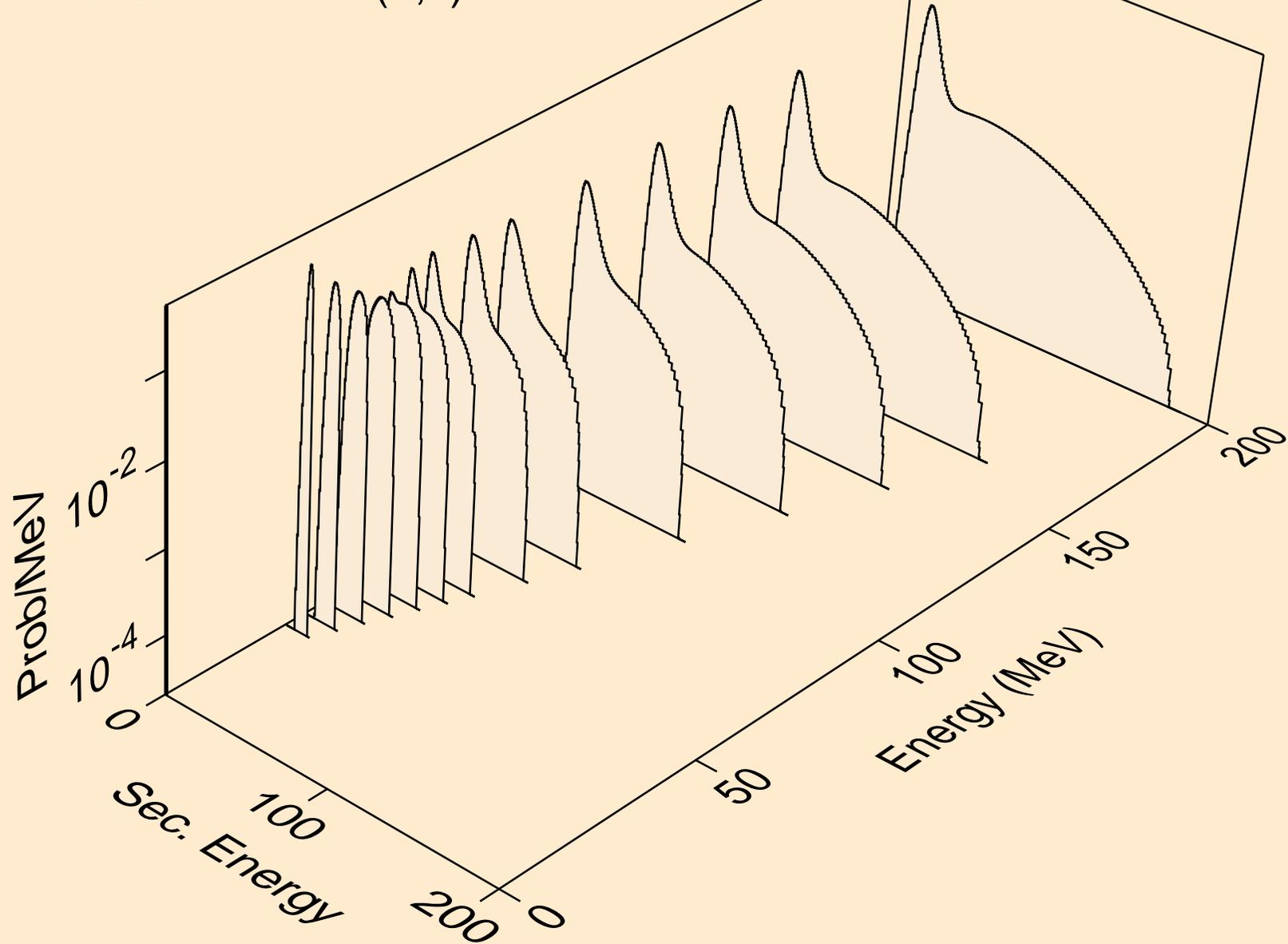protons from (a,n*)p

Prob/MeV

Sec. Energy

Energy (MeV)

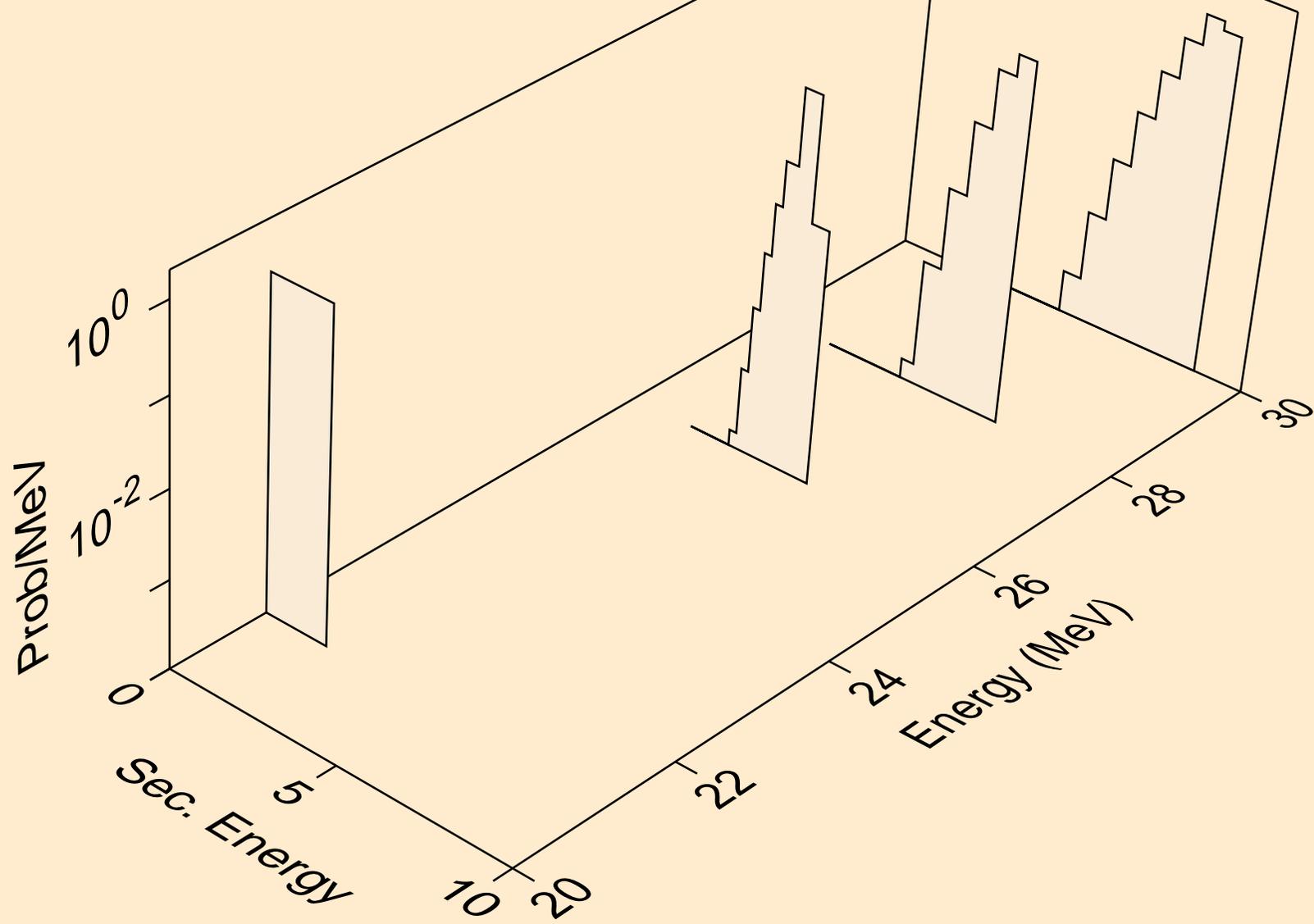RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
protons from (a,2np)

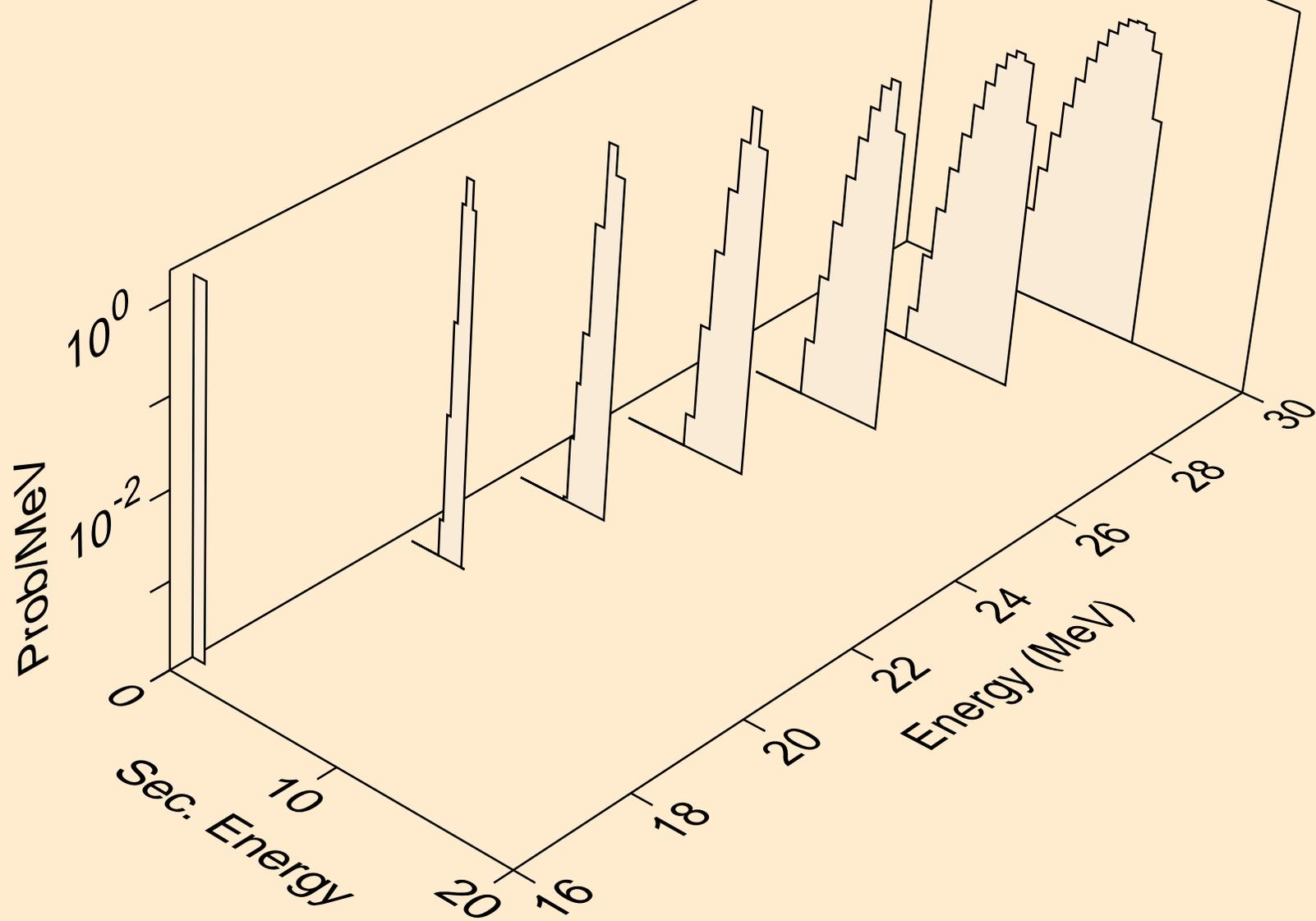RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
protons from (a,p)

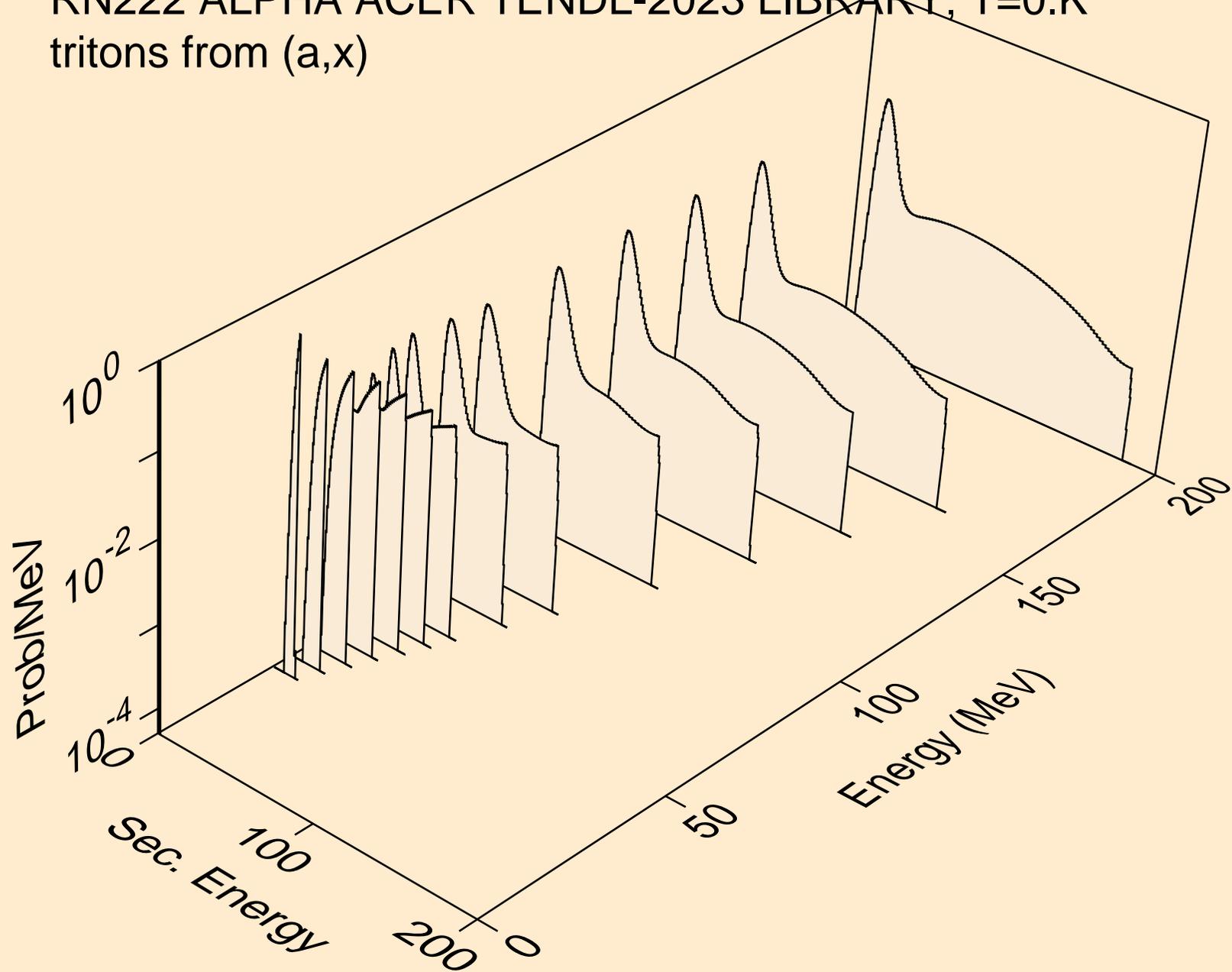RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (a,x)

RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (a,n*)d
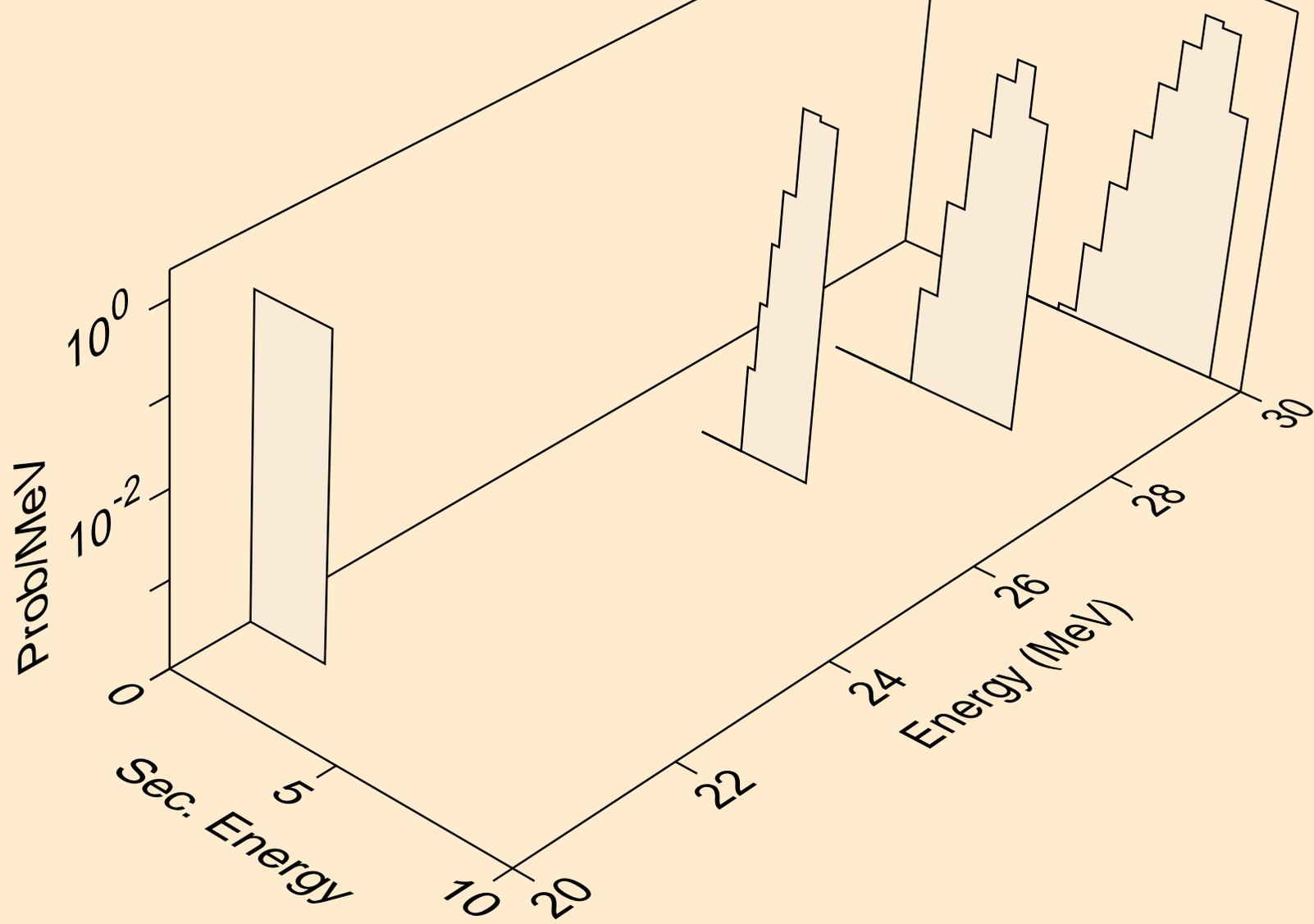
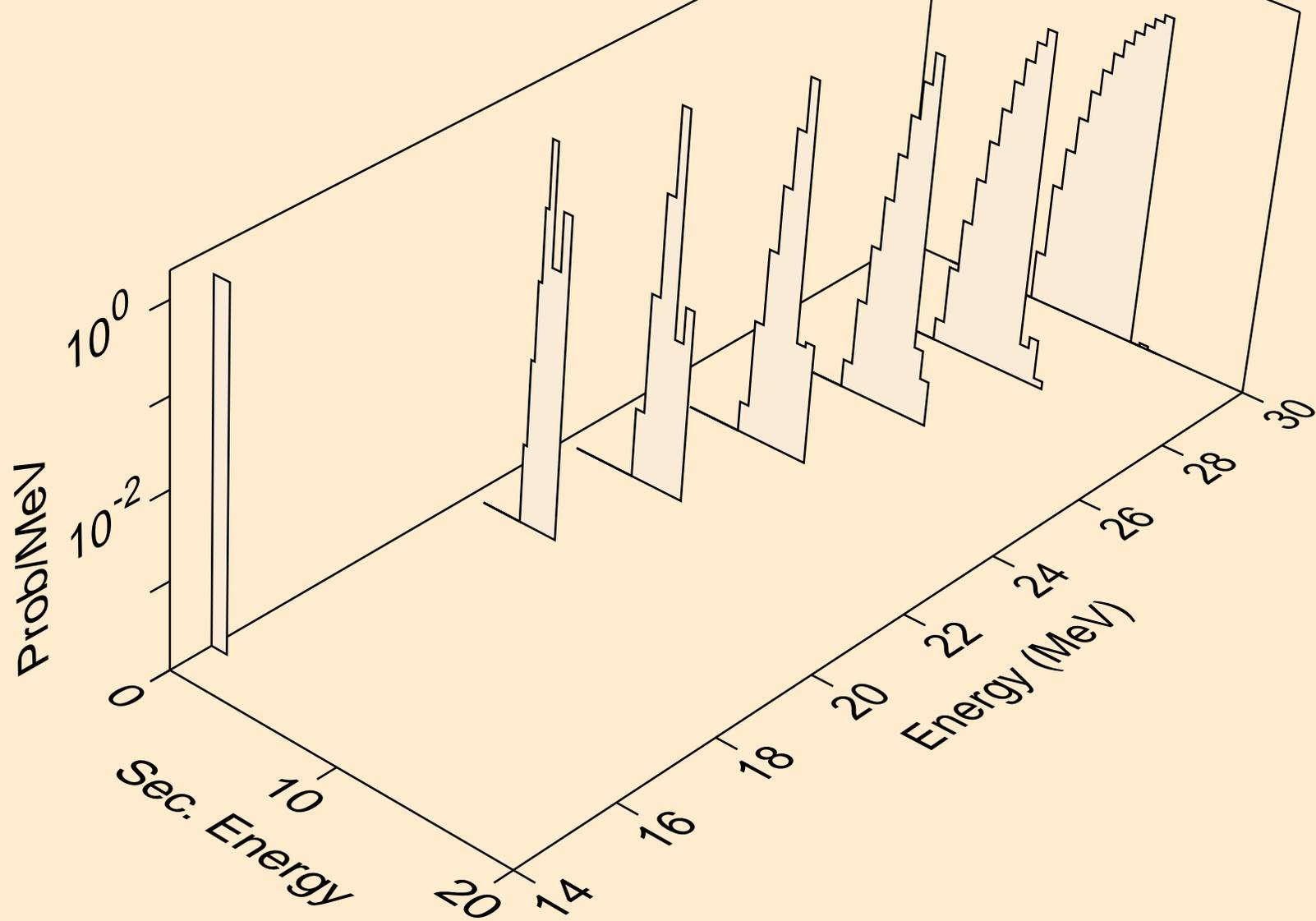RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (a,d)

RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
tritons from (a,x)

Prob/MeV

10^0

10^{-2}

10^{-4}

Sec. Energy

100

200

50

100

150

200

Energy (MeV)

0

RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
tritons from (a,n*)t

Prob/MeV

10^0

10^{-2}

0

Sec. Energy

5

10

Energy (MeV)

20

22

24

26

28

30

RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
tritons from (a,t)

RN222 ALPHA ACER TENDL-2023 LIBRARY; T=0.K
he3s from (a,x)