RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Principal cross sections

Cross section (barns) vs Energy (MeV)

- total
- absorption
- elastic
- gamma production

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Heating

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Principal cross sections

total
absorption
elastic
gamma production

Cross section (barns)

Energy (MeV)

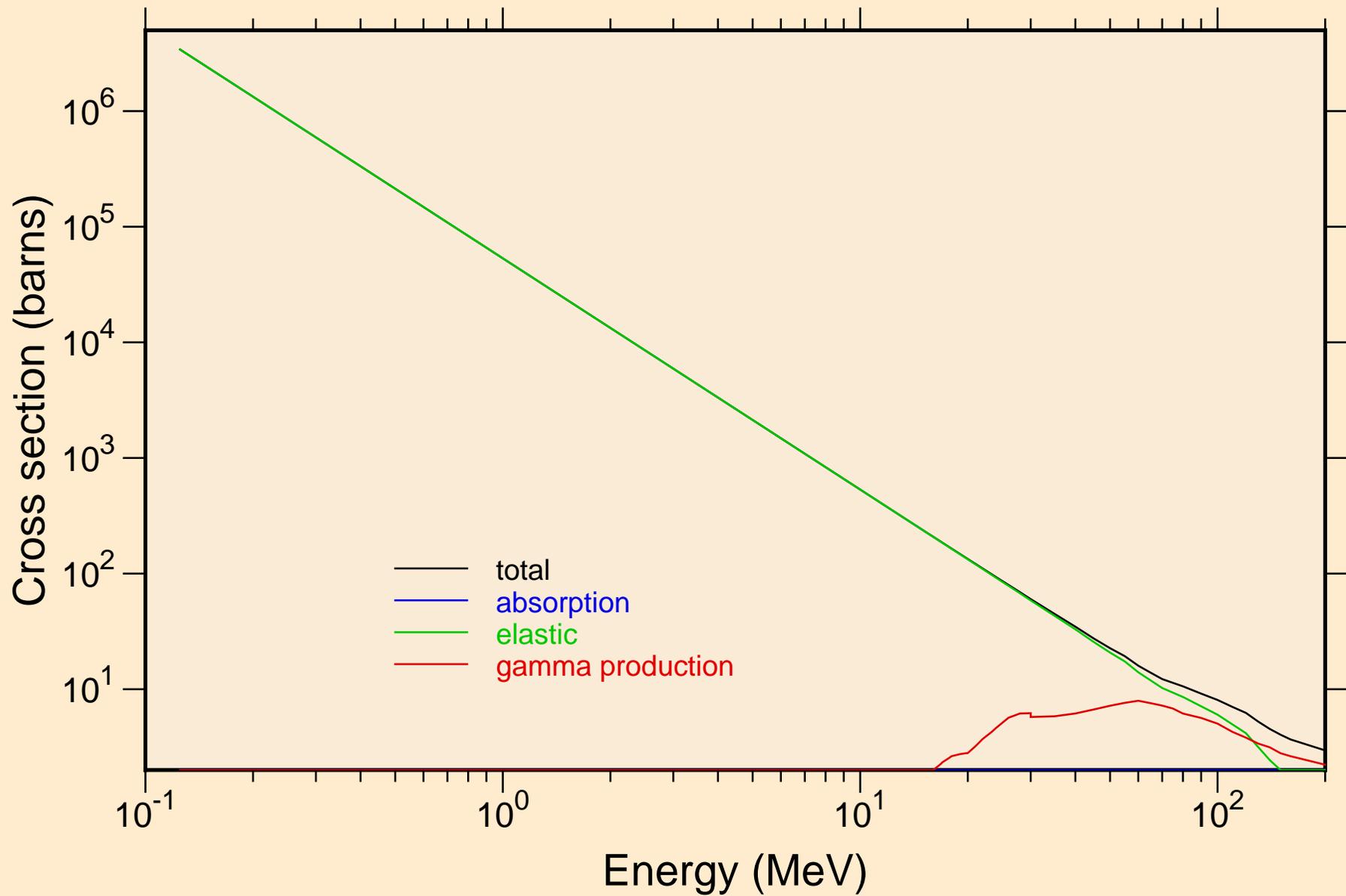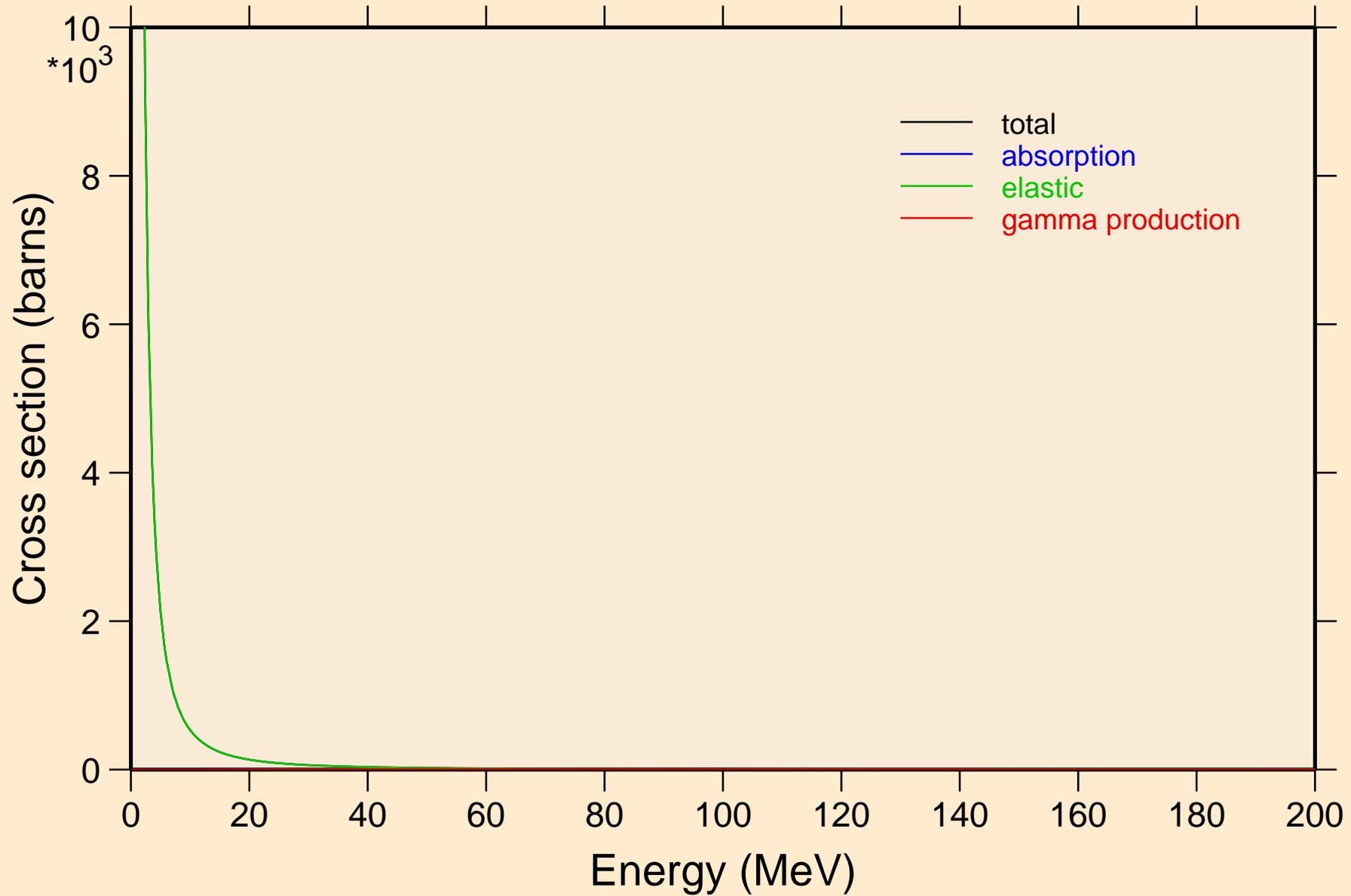RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Heating

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Threshold reactions

Legend:
- (a,x) — black
- (a,n*)a — red
- (a,2n)a — green
- (a,3n)a — blue
- inelastic — magenta
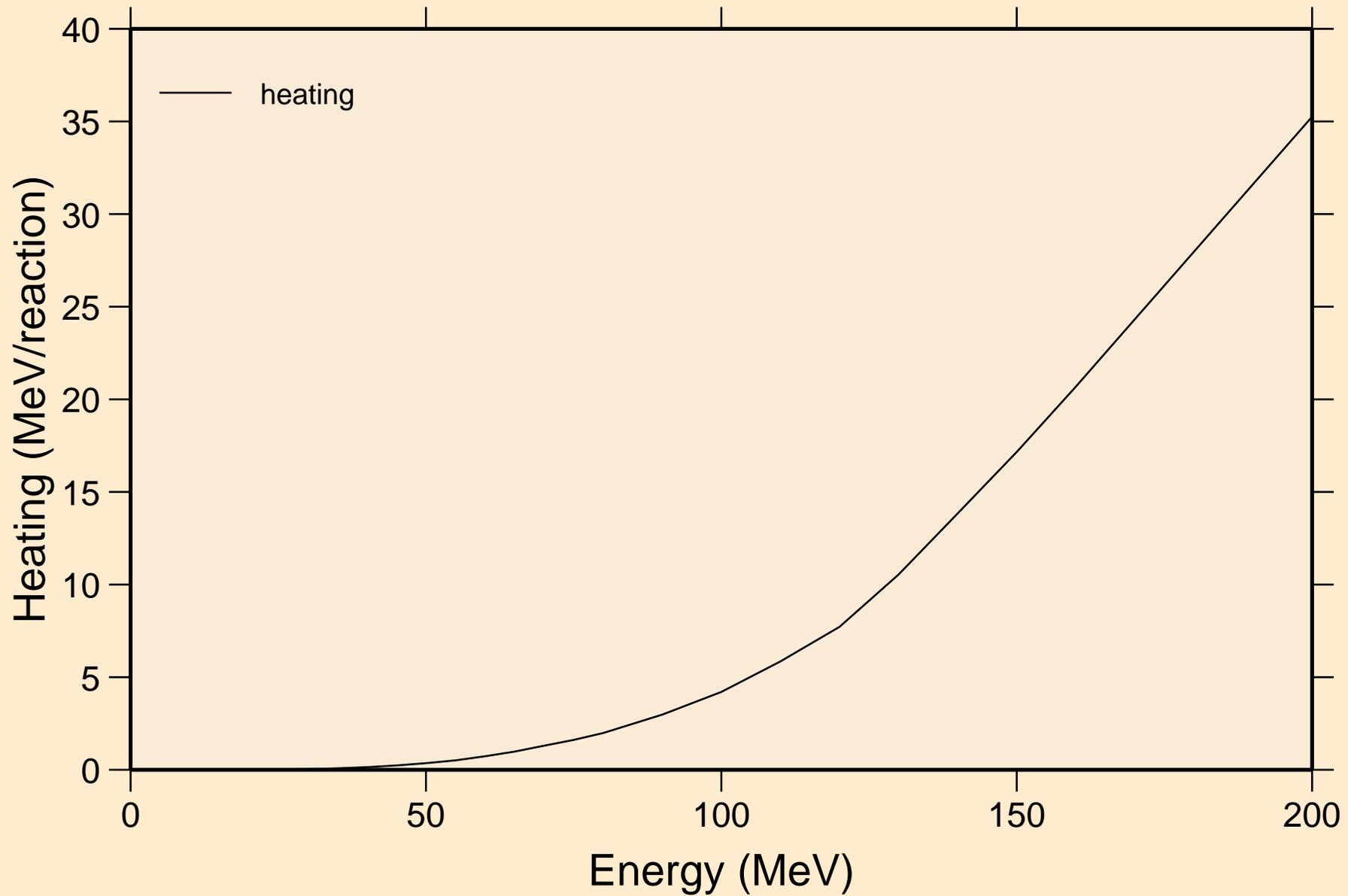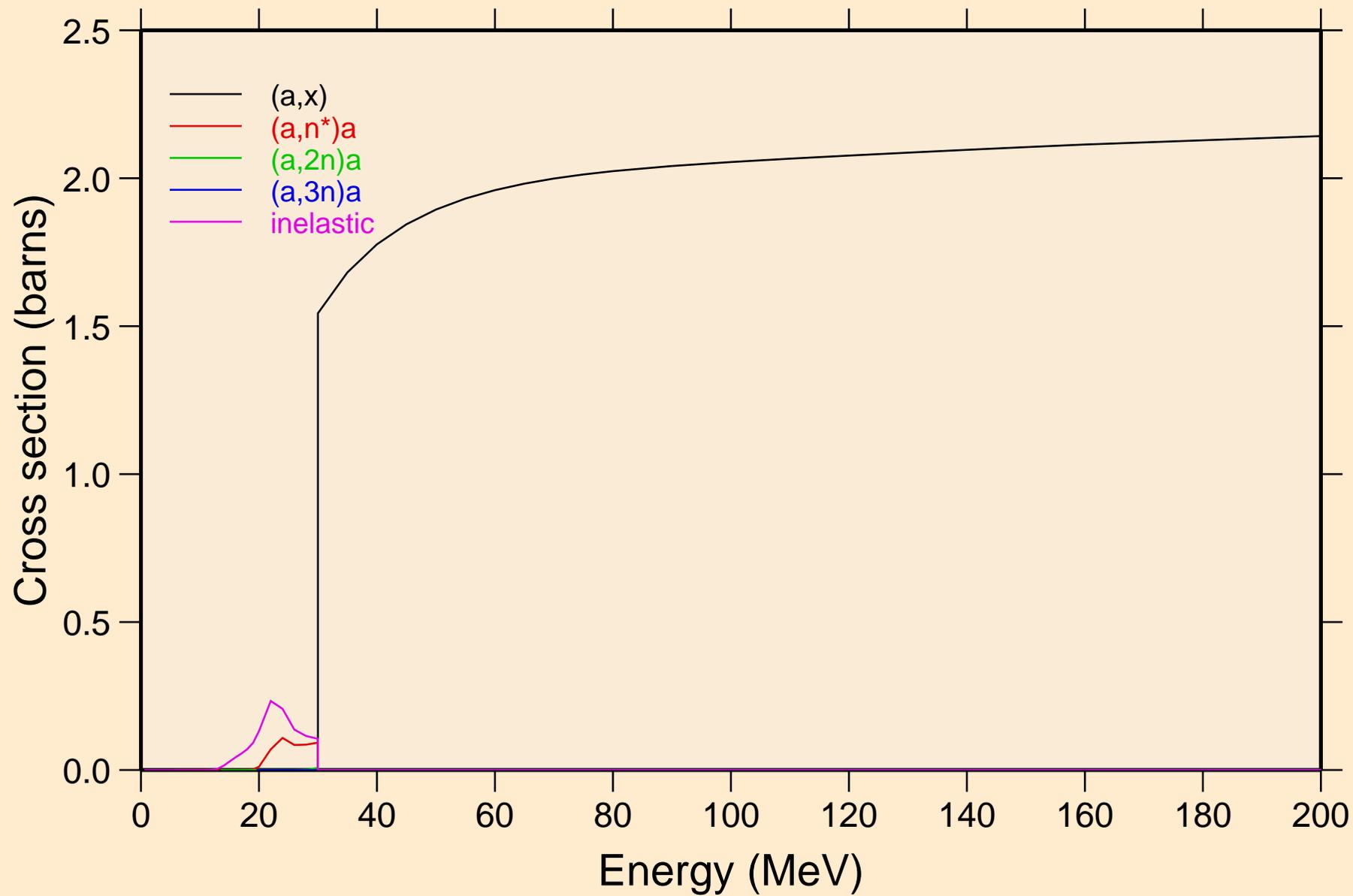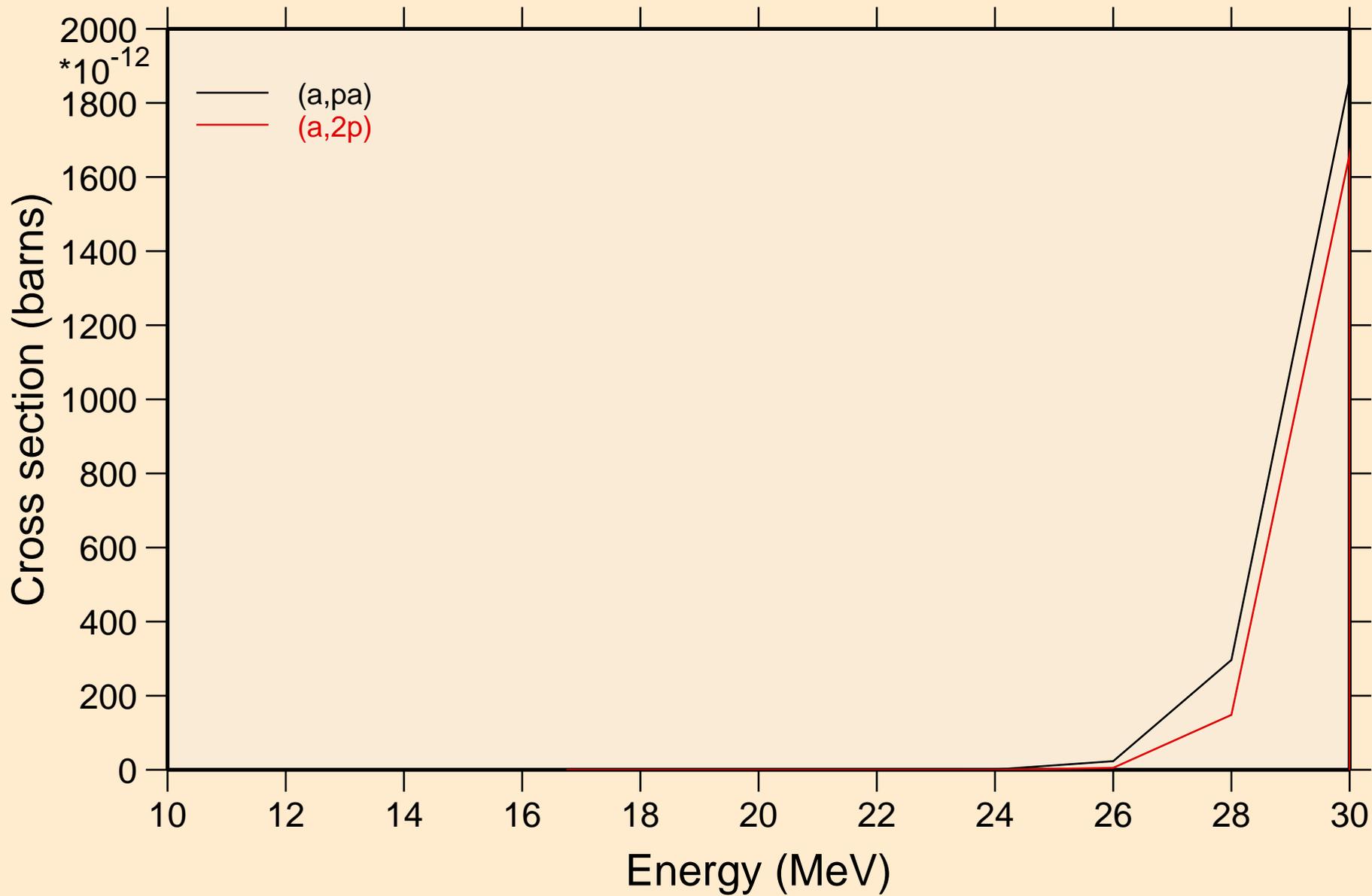
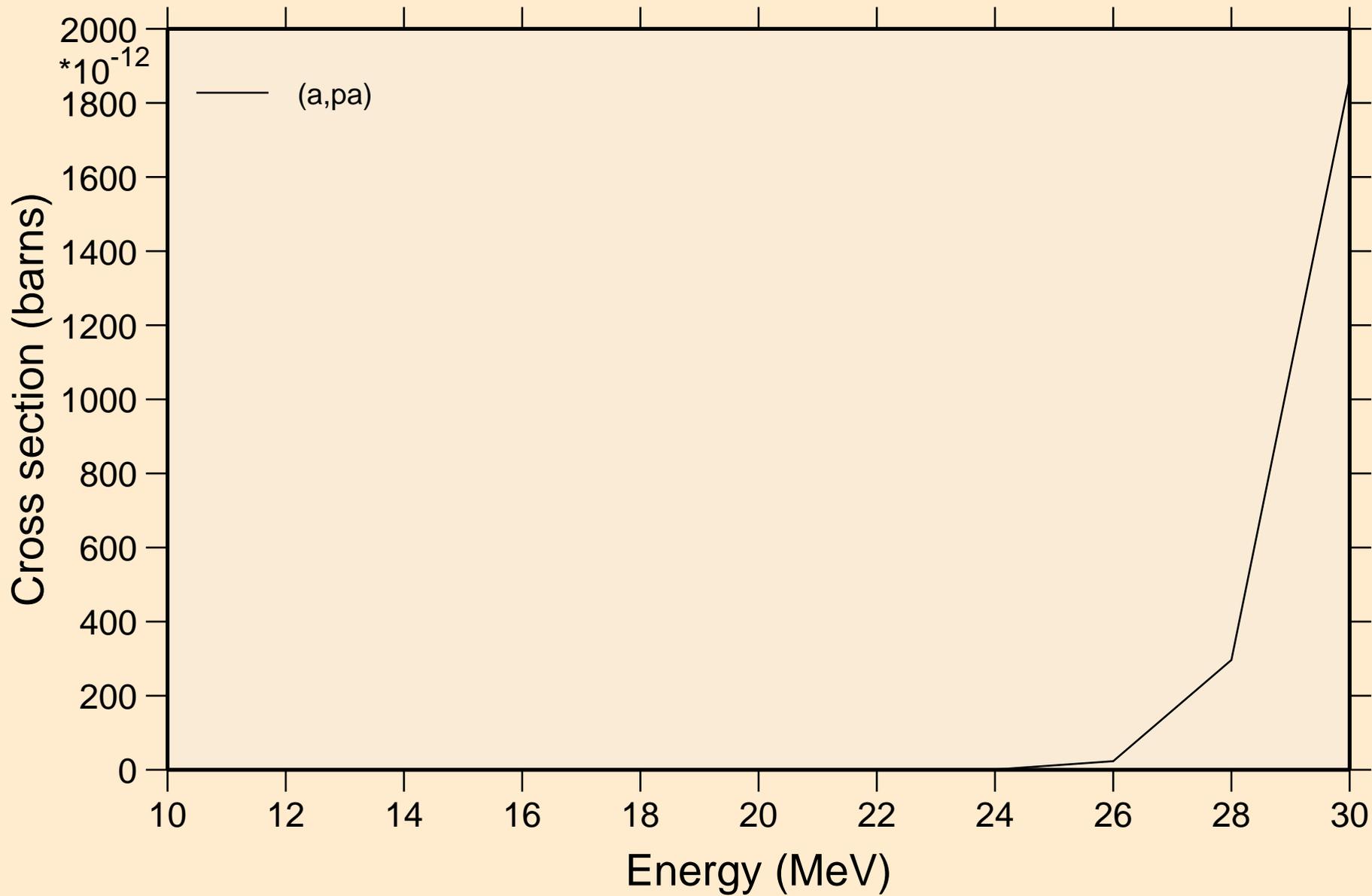X-axis: Energy (MeV)
Y-axis: Cross section (barns)
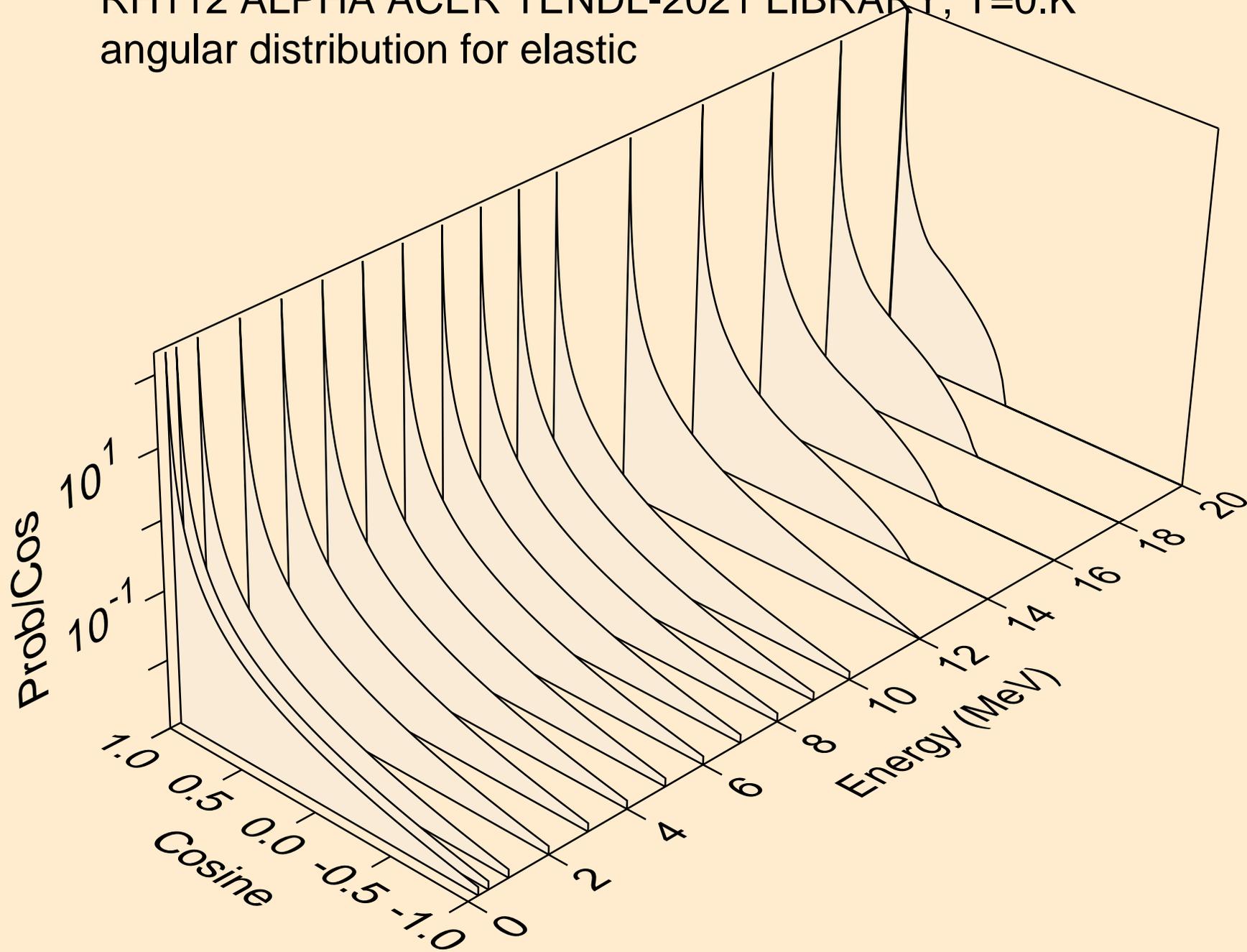
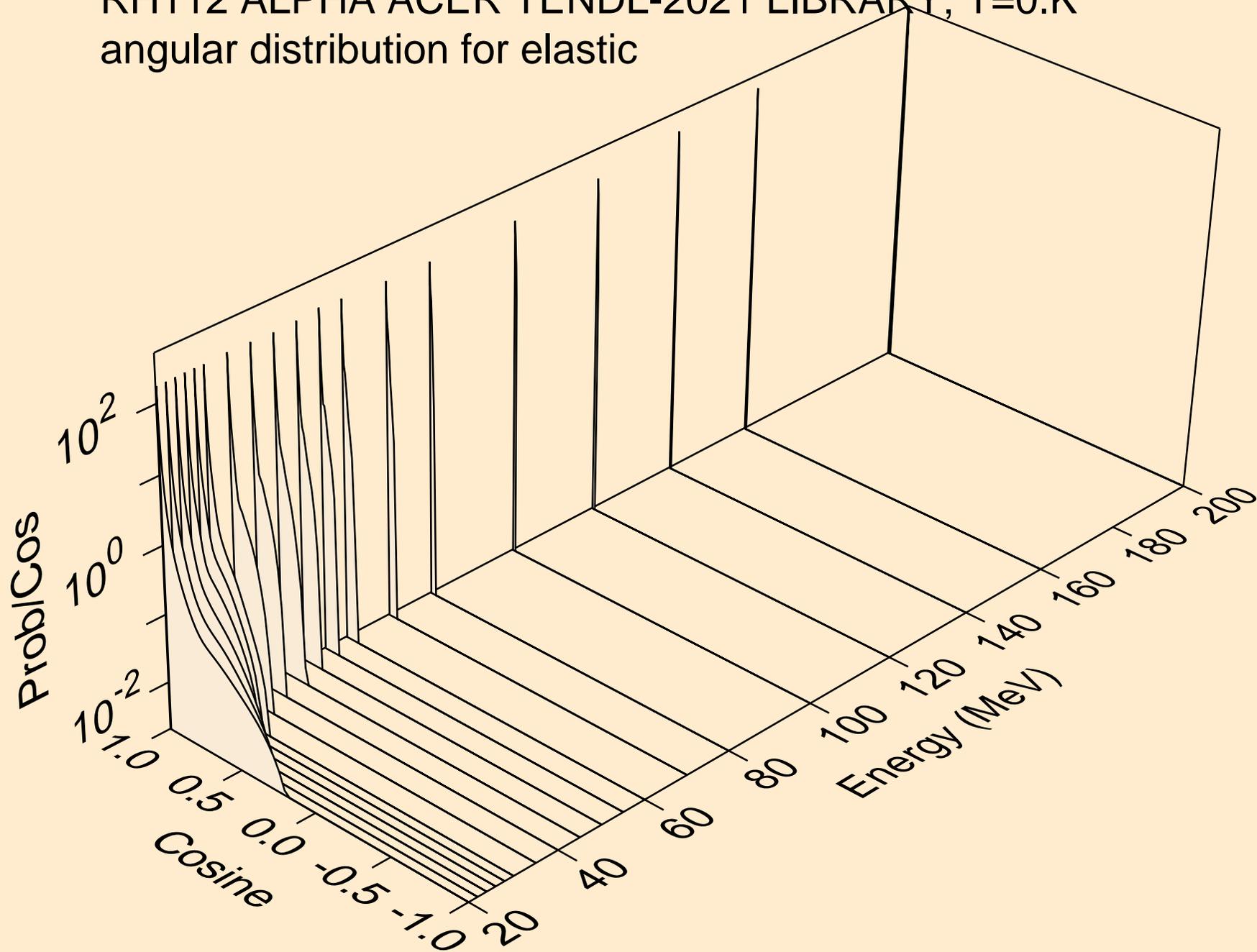RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Threshold reactions

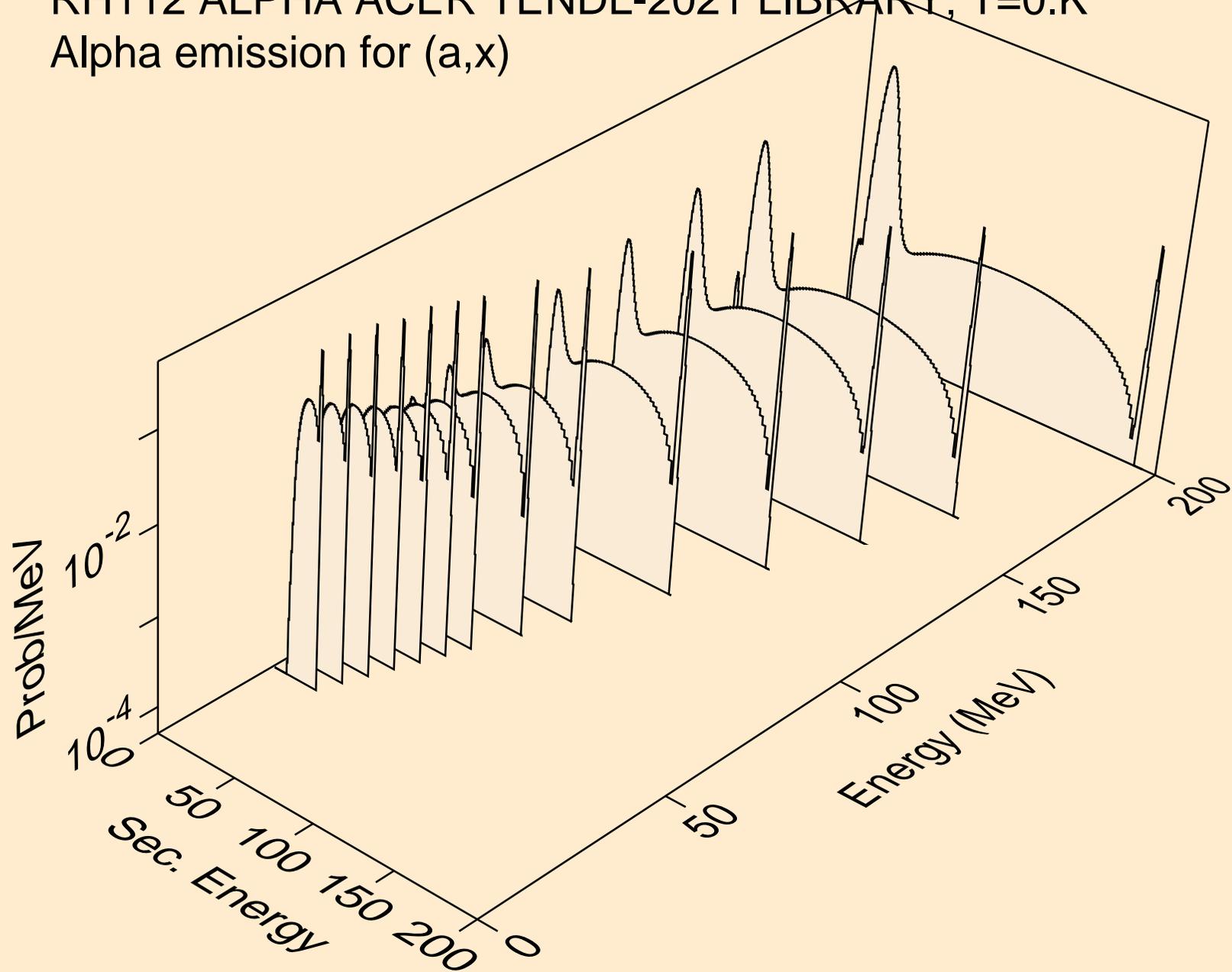RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Threshold reactions

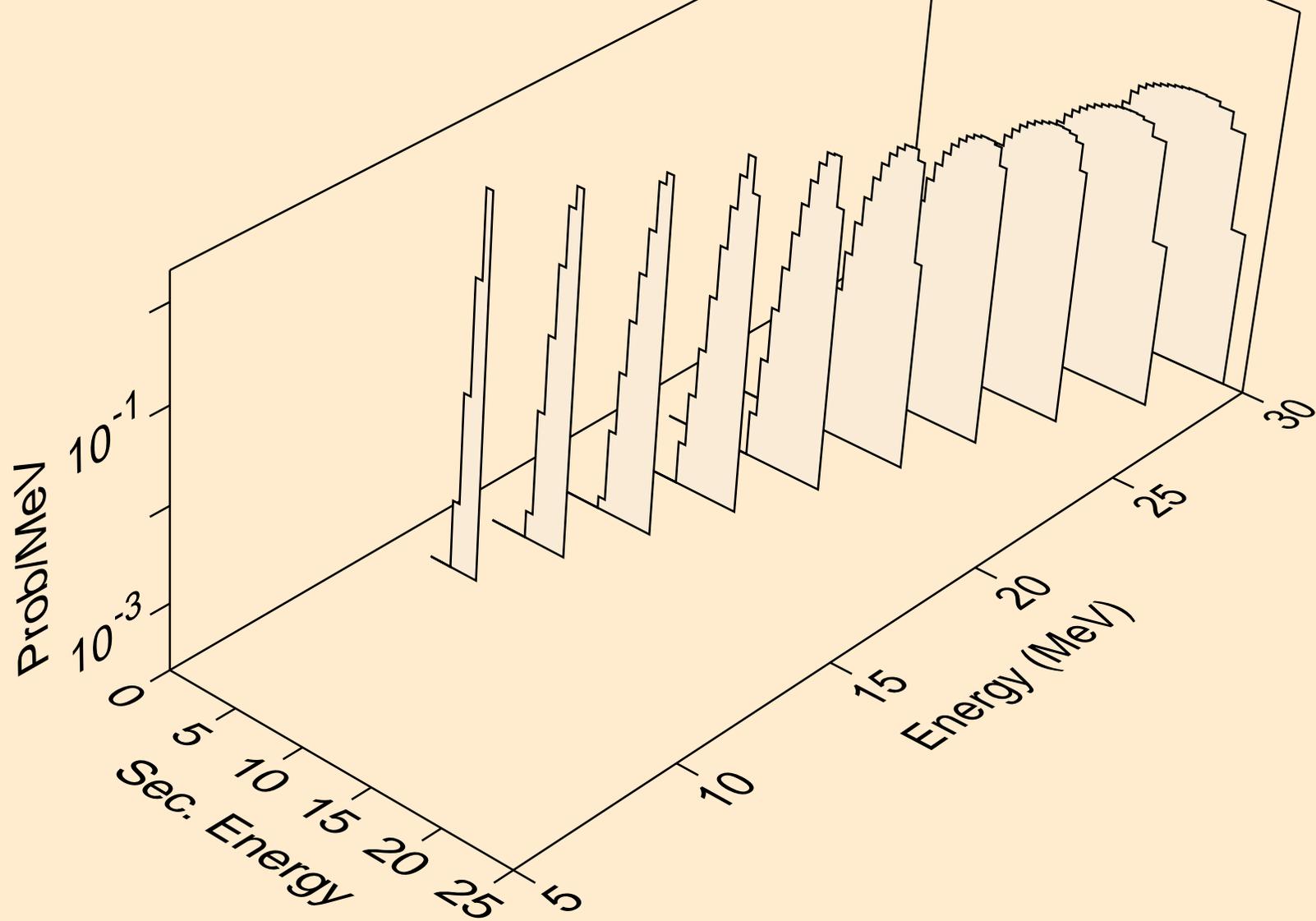RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
angular distribution for elastic

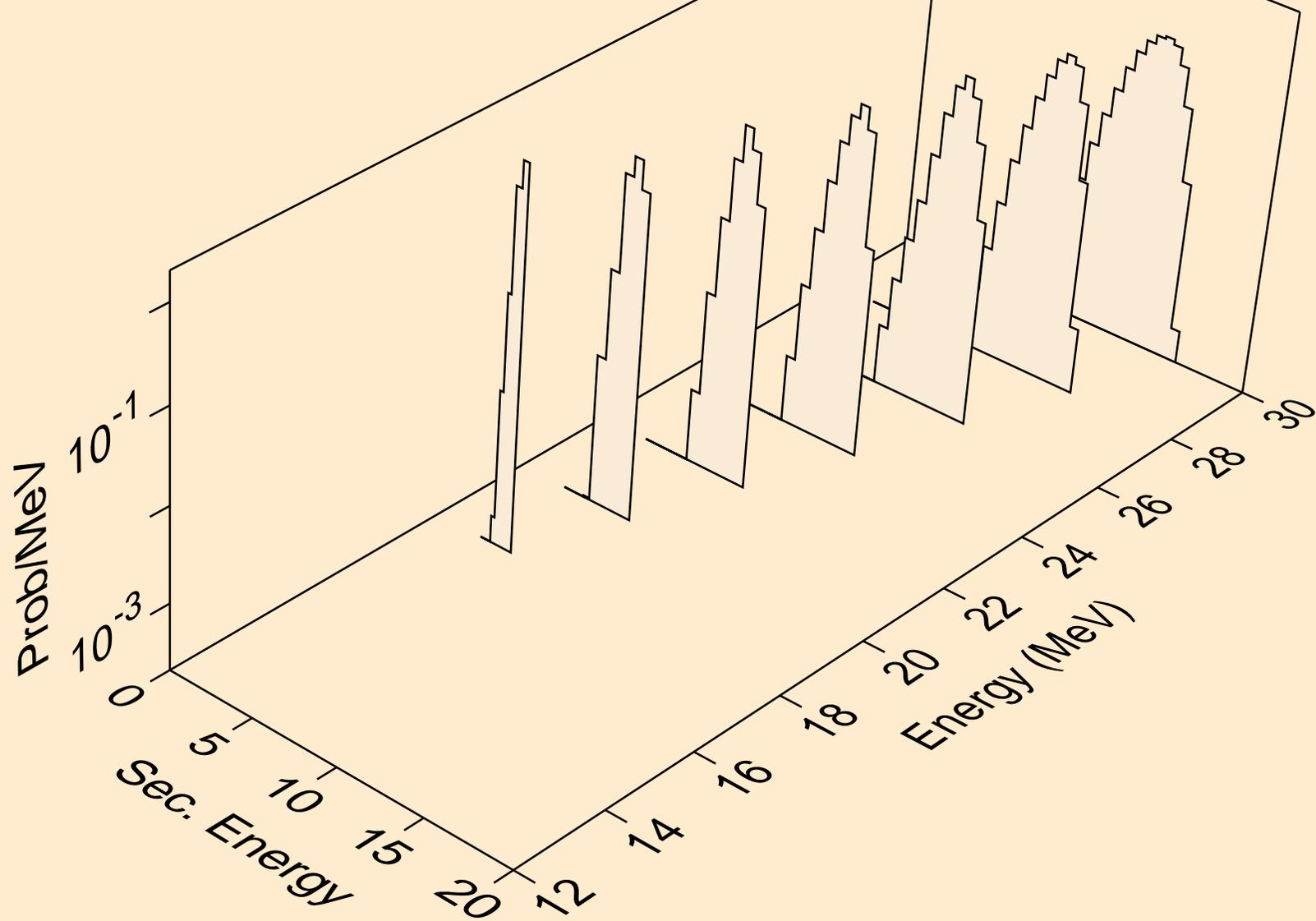RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
angular distribution for elastic

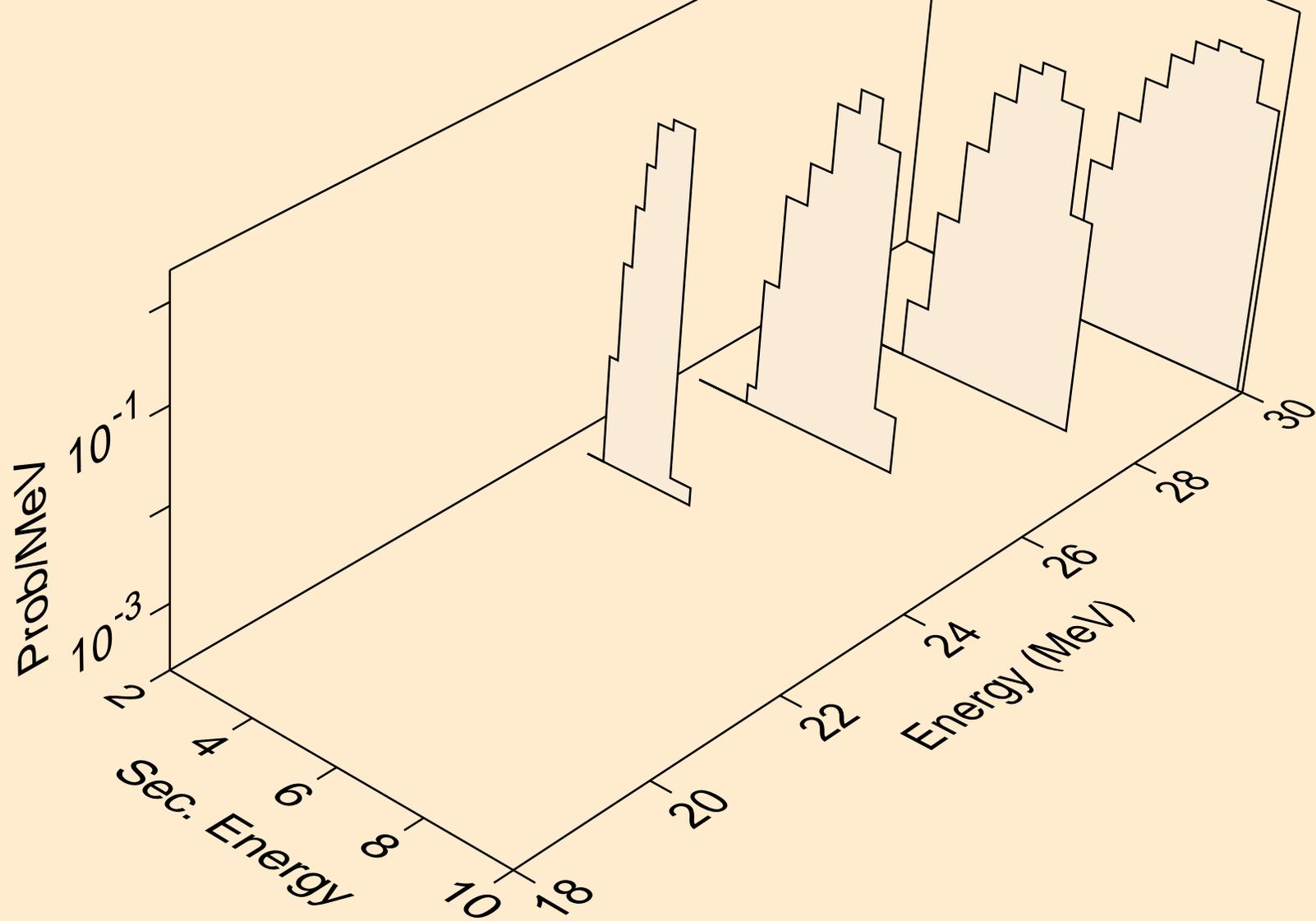RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Alpha emission for (a,x)

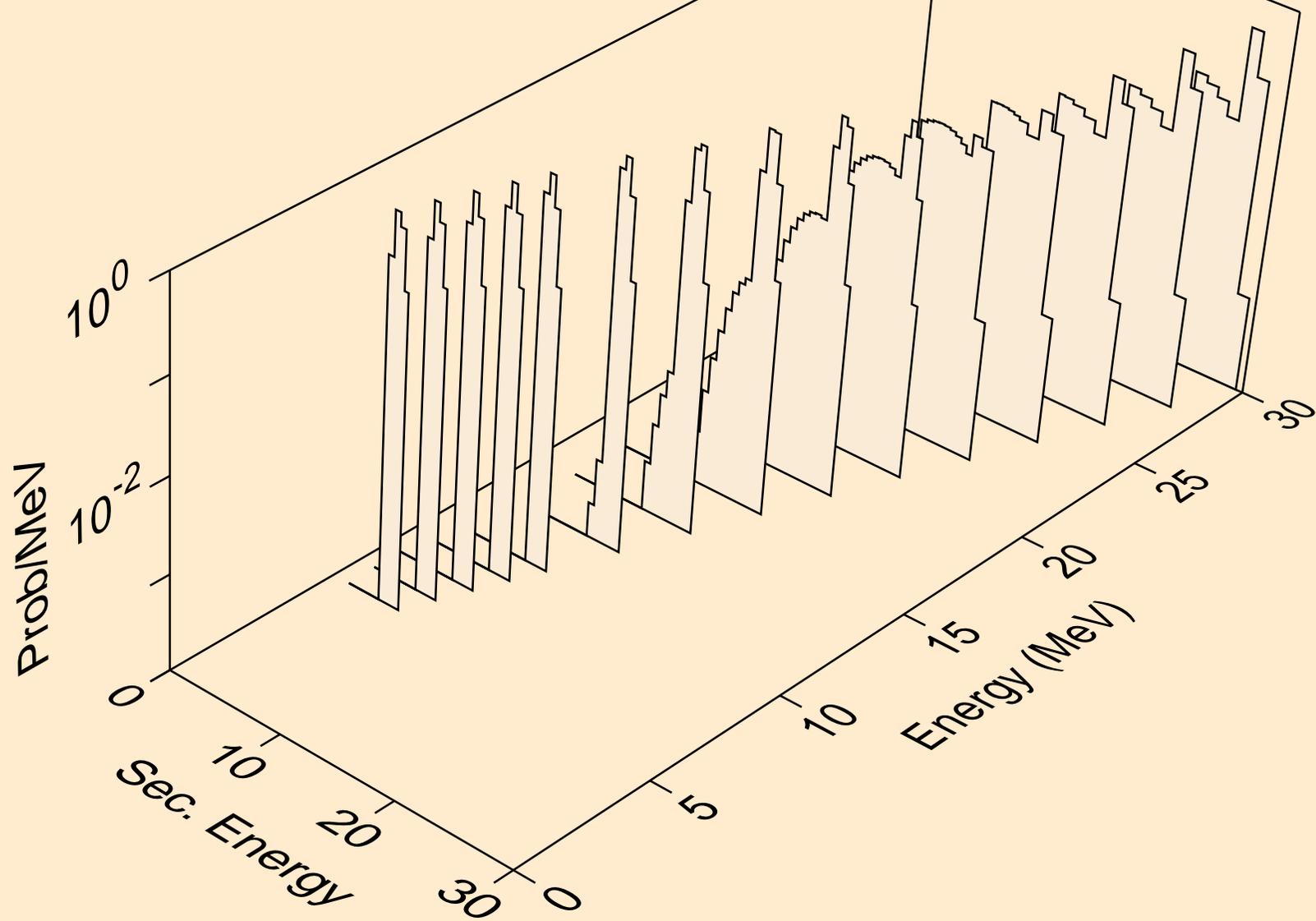RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Alpha emission for (a,n*)a

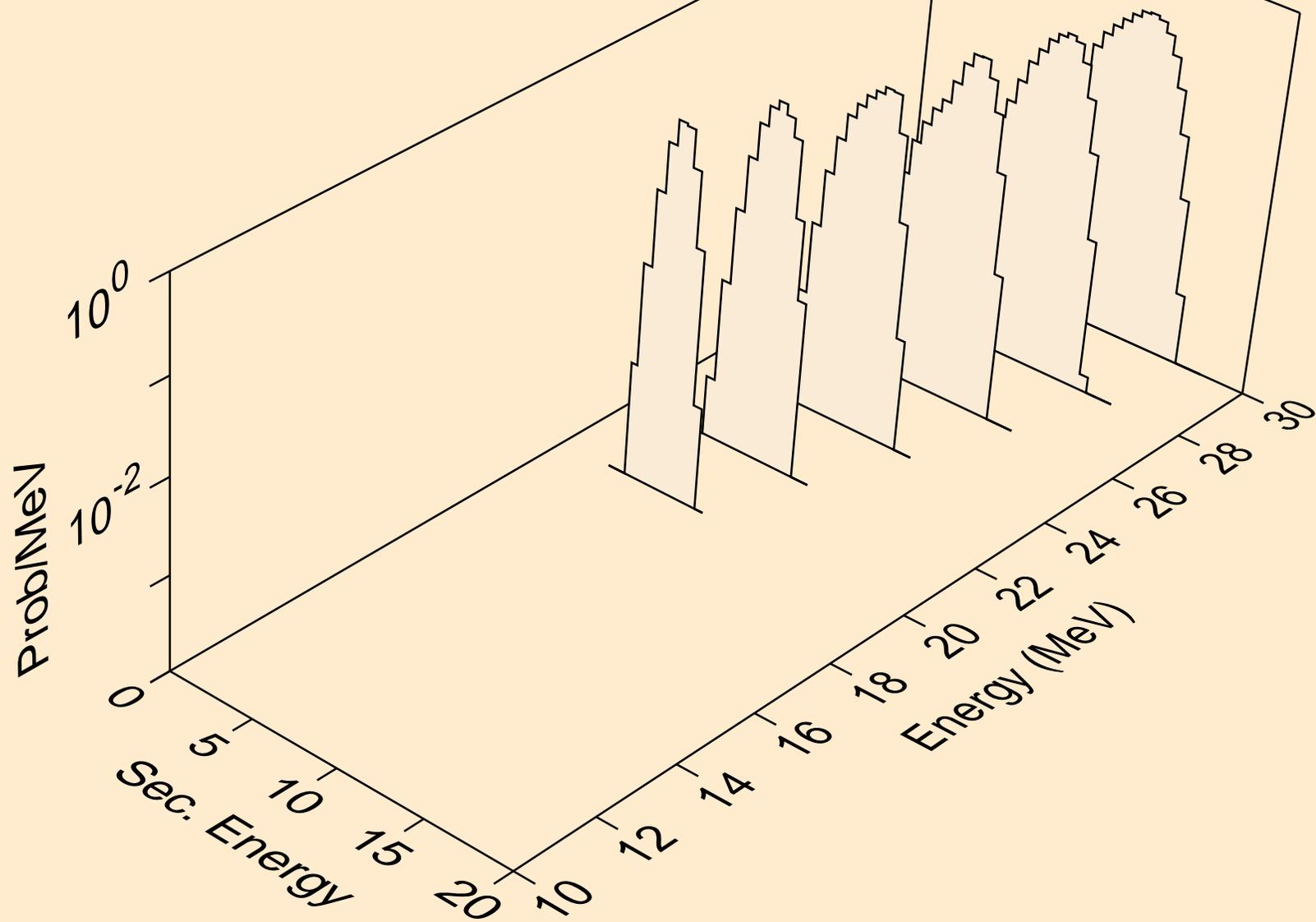RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Alpha emission for (a,2n)a

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Alpha emission for (a,3n)a

Prob/MeV

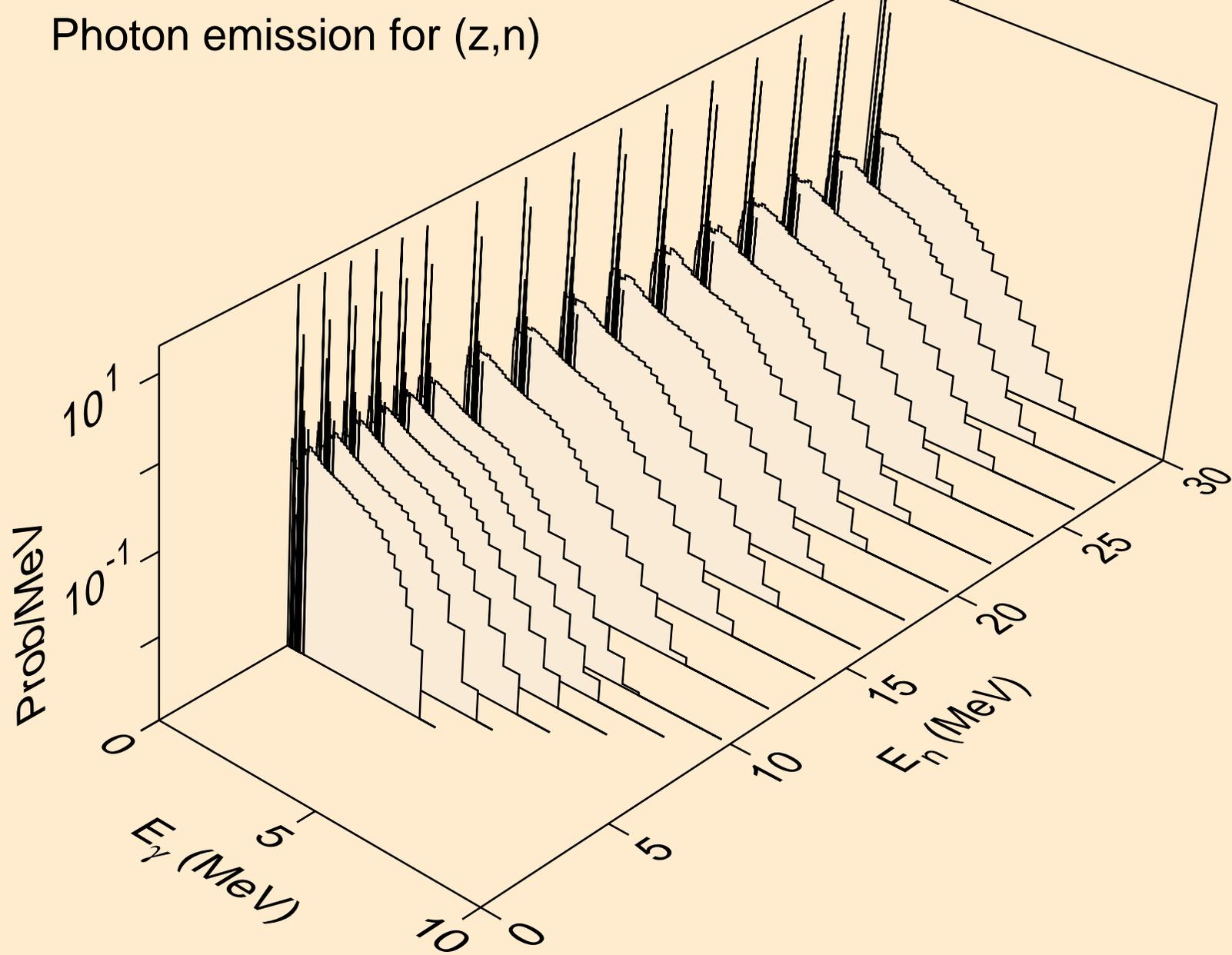10^{-1}

10^{-3}

Sec. Energy

Energy (MeV)

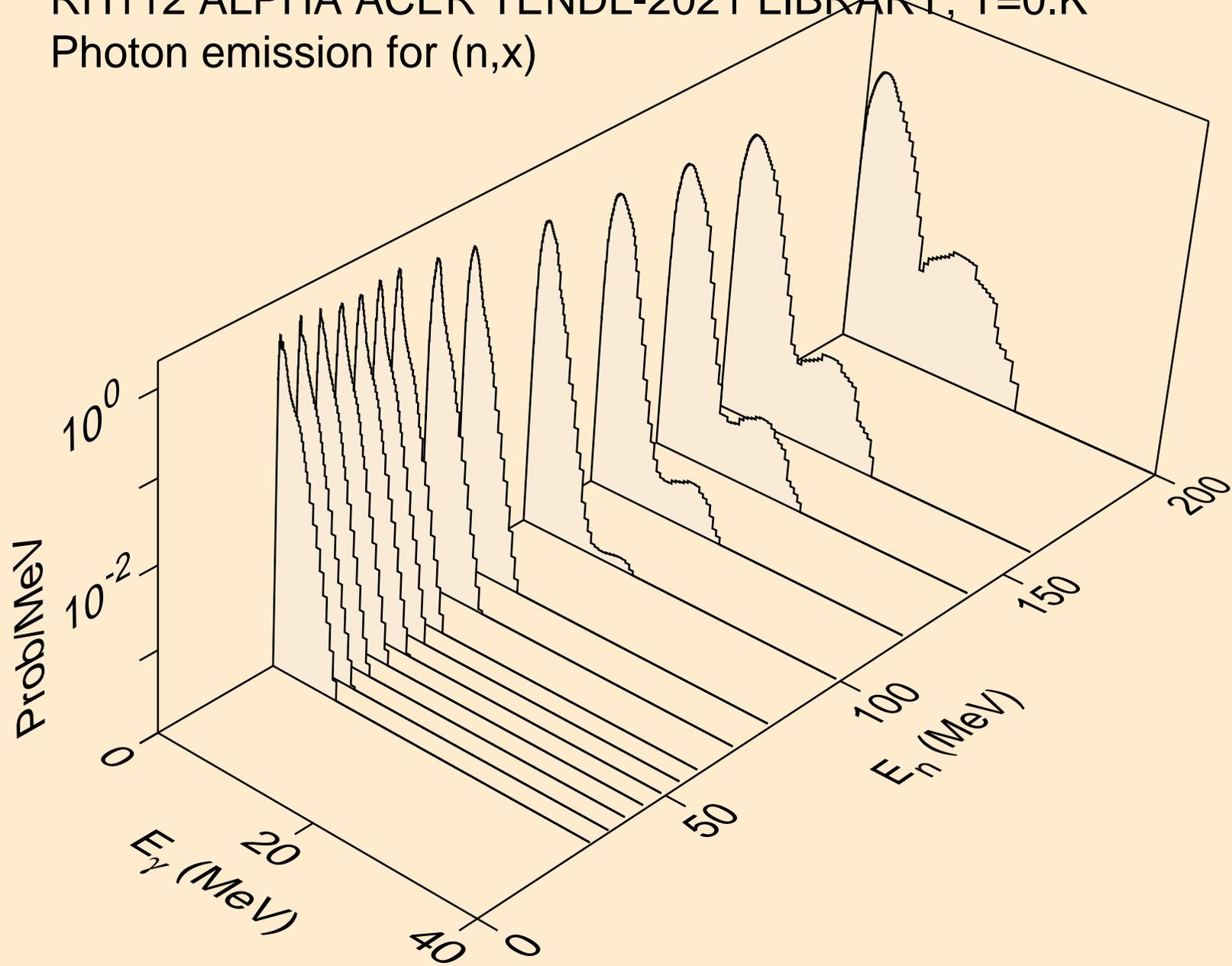RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Alpha emission for inelastic

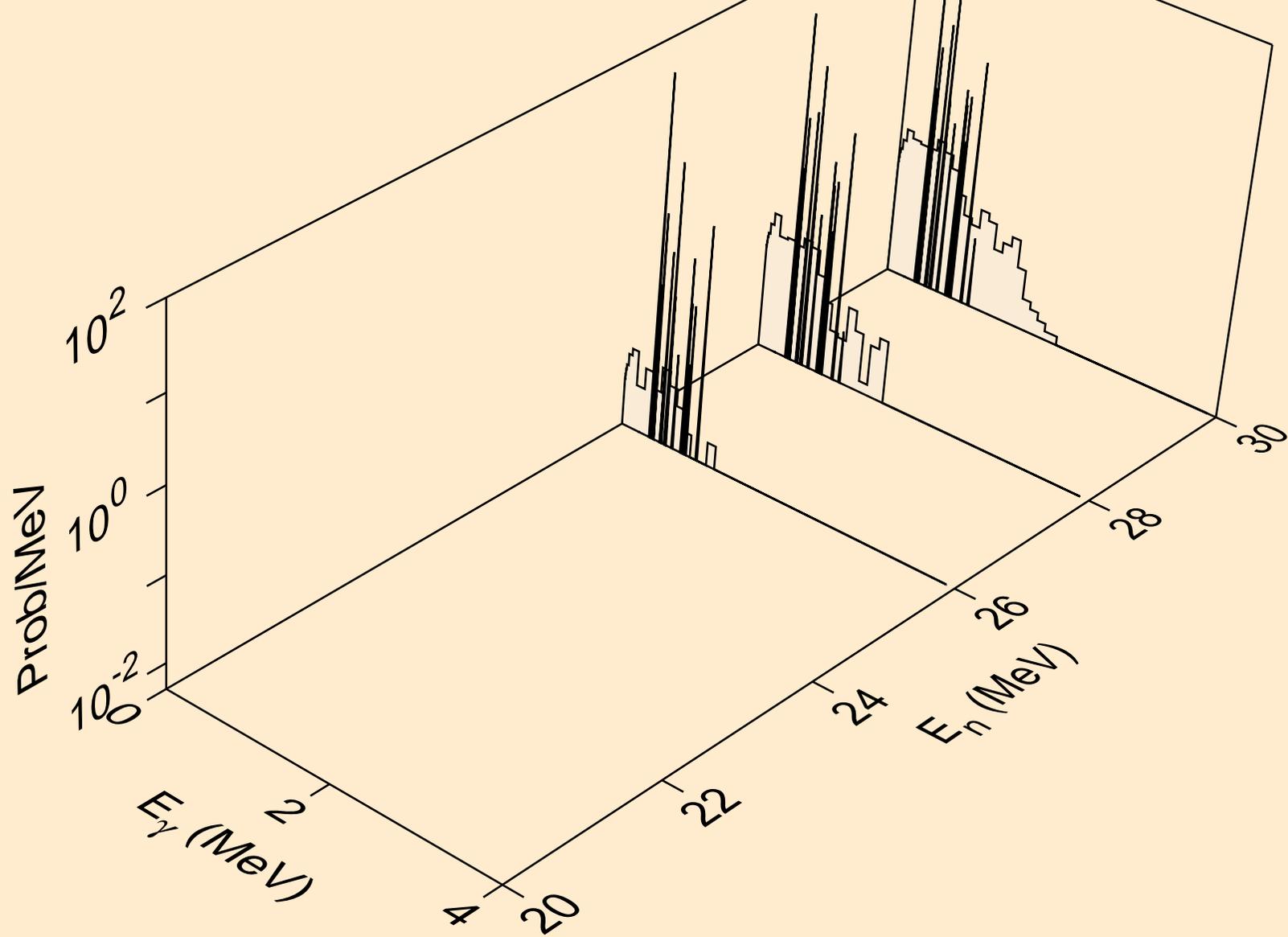RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Alpha emission for (a,pa)

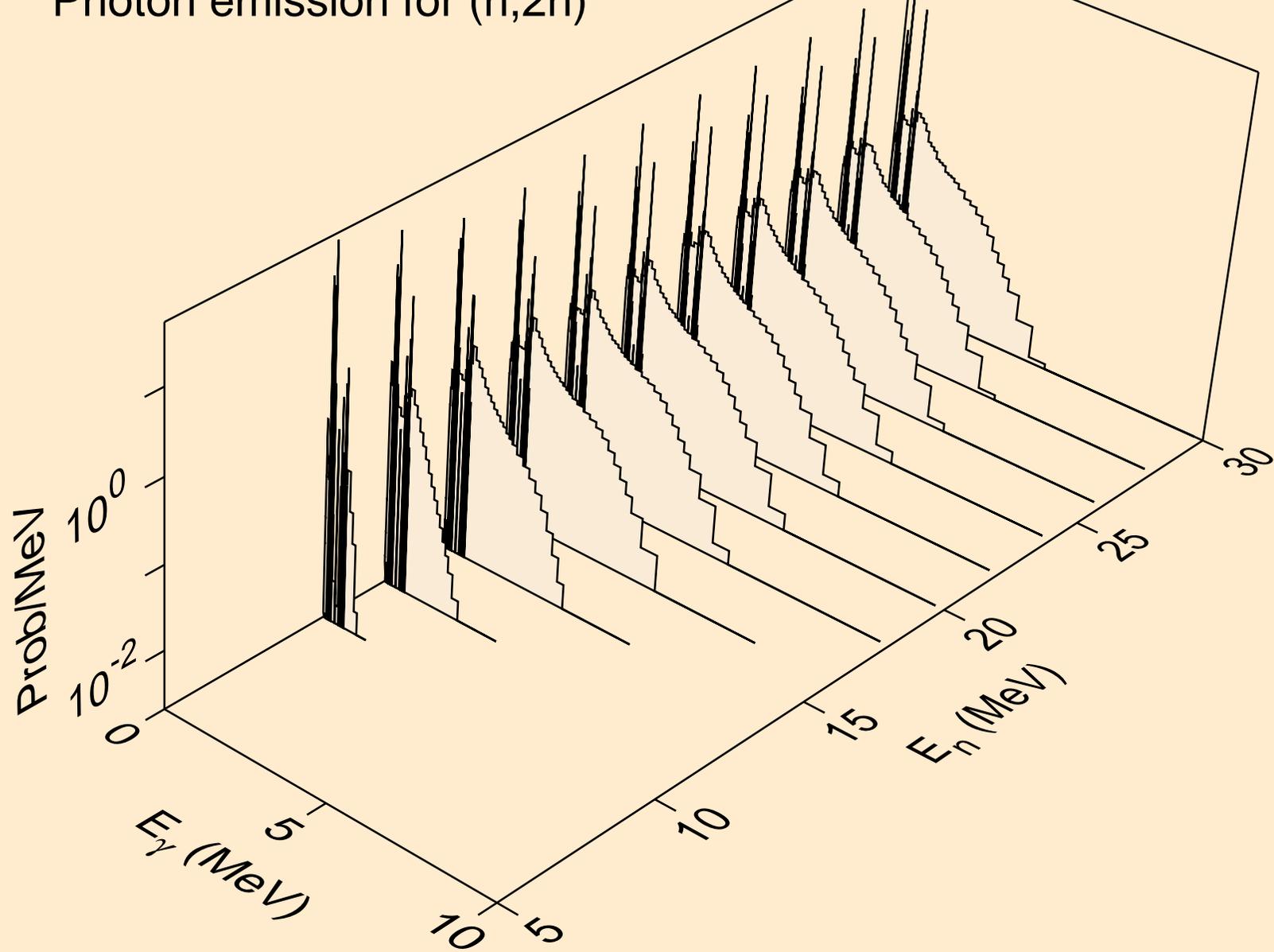RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (z,n)

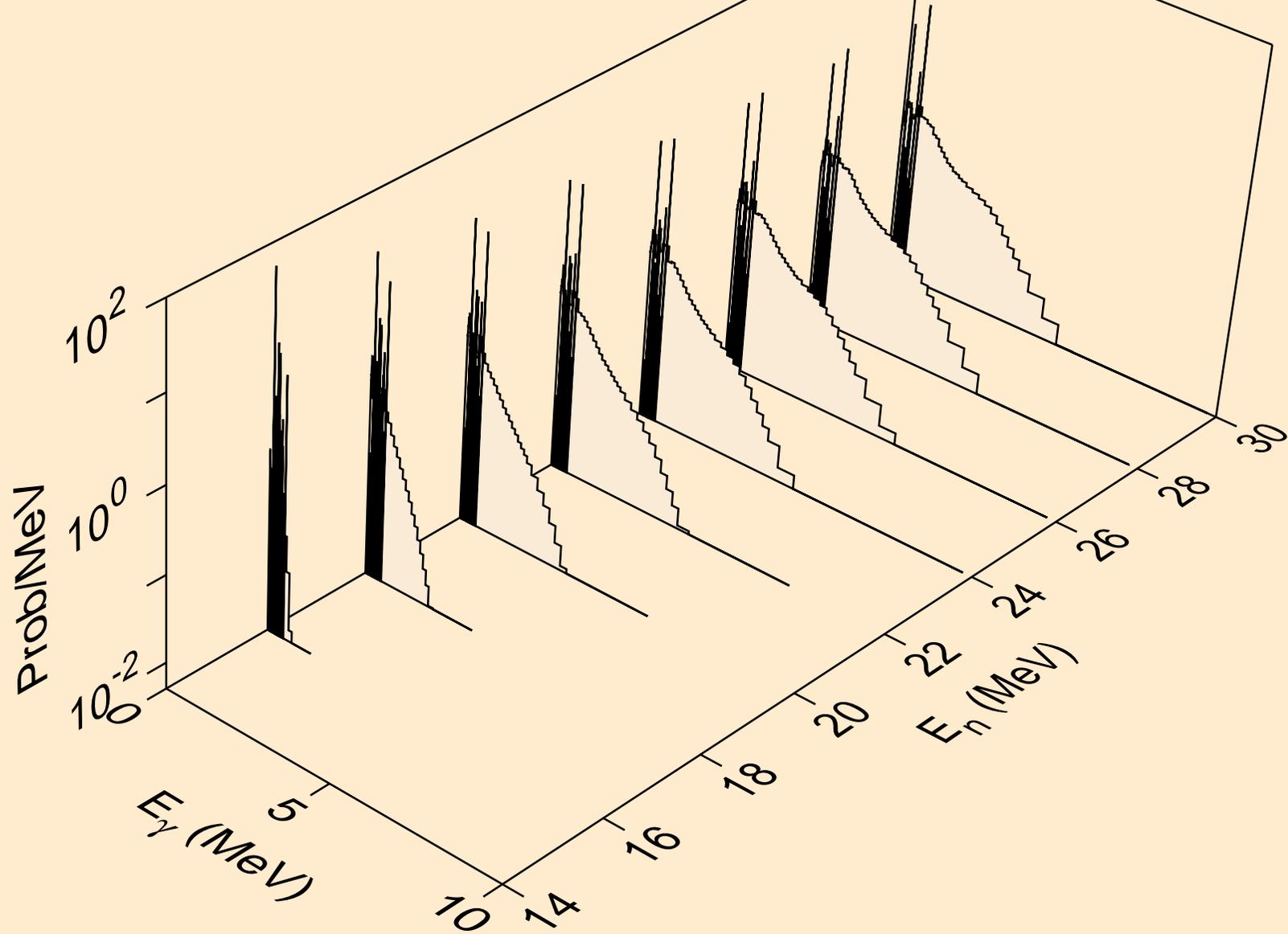RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,x)

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
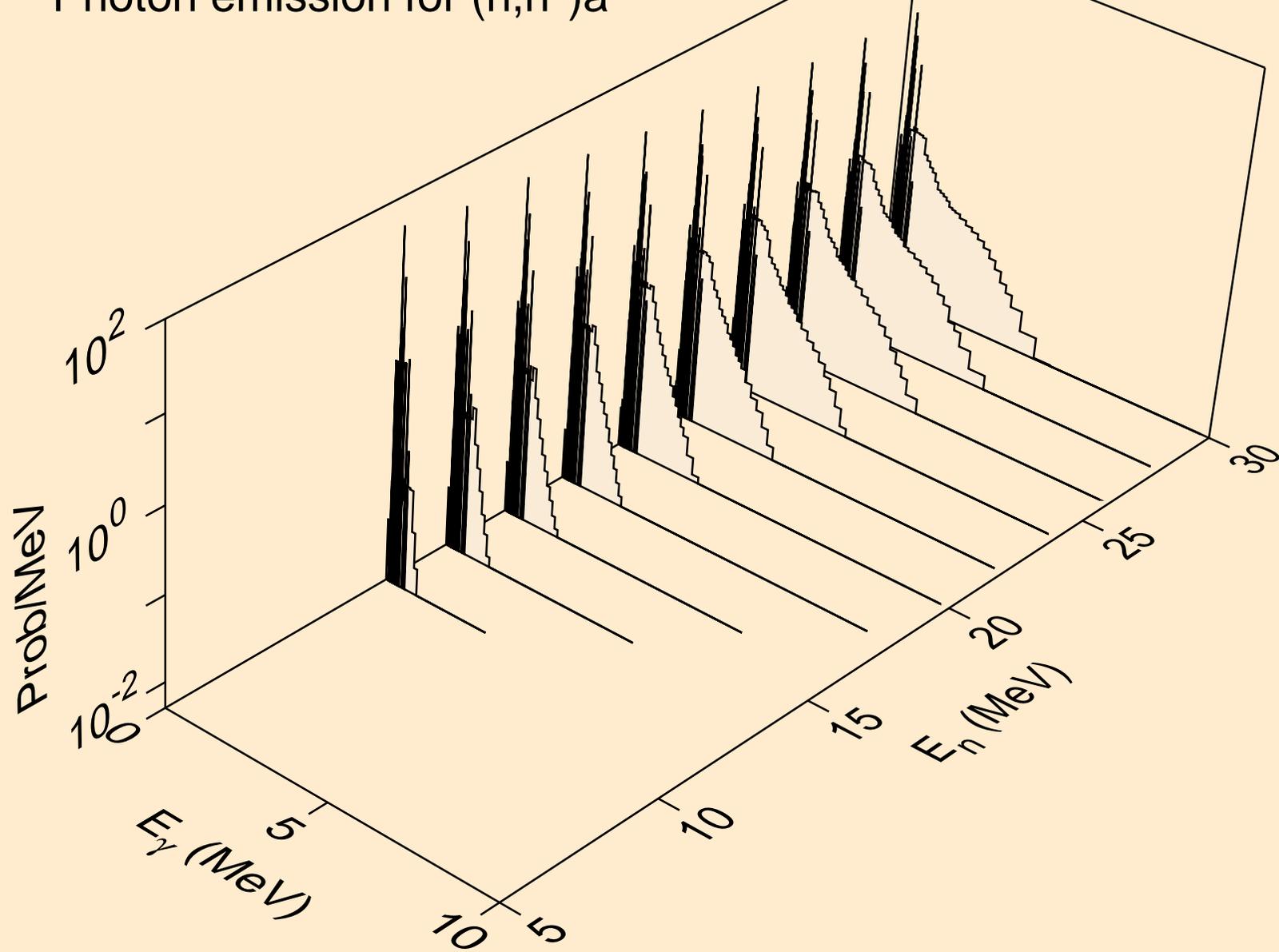Photon emission for (n,2nd)

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
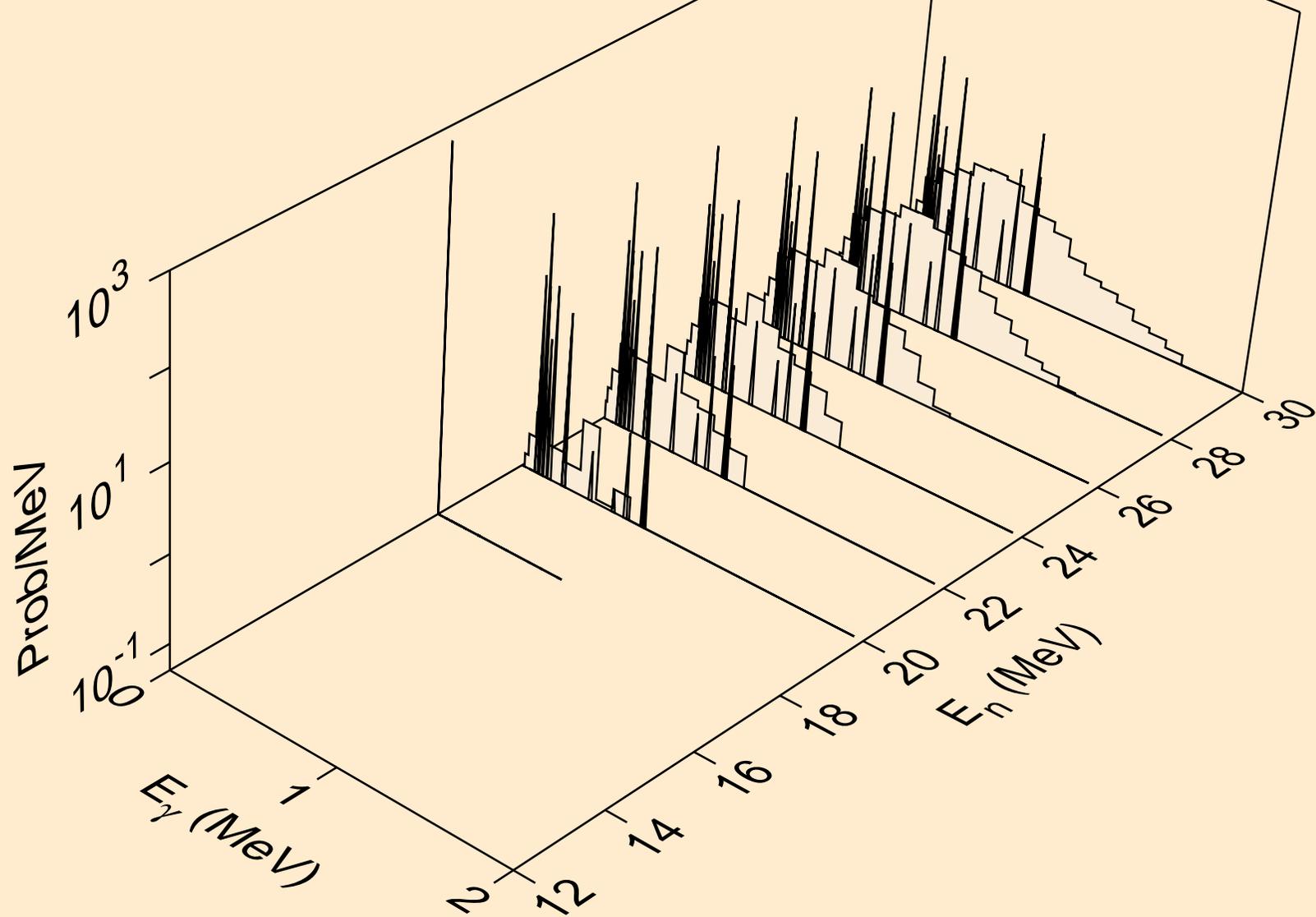Photon emission for (n,2n)

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
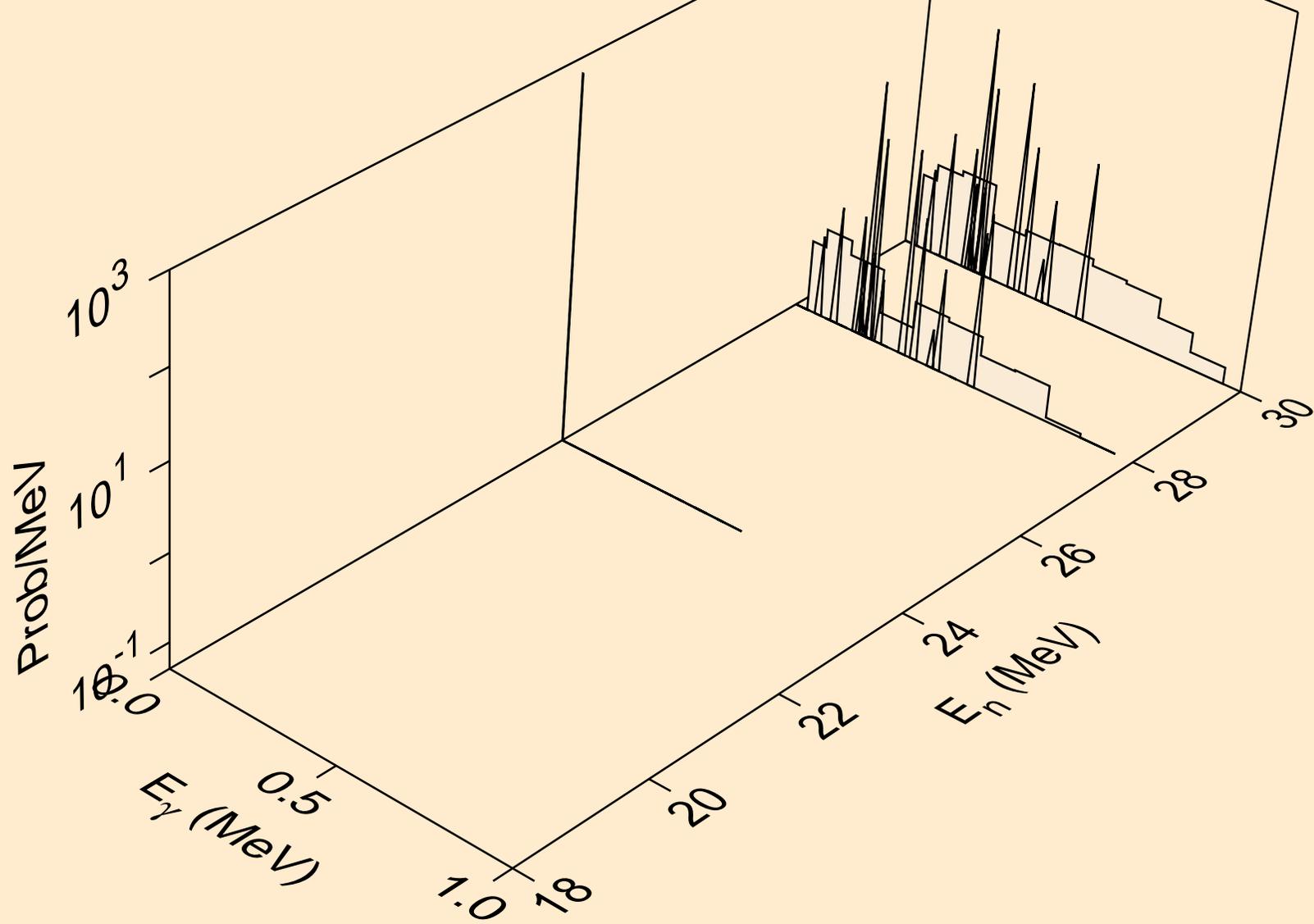Photon emission for (n,3n)

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
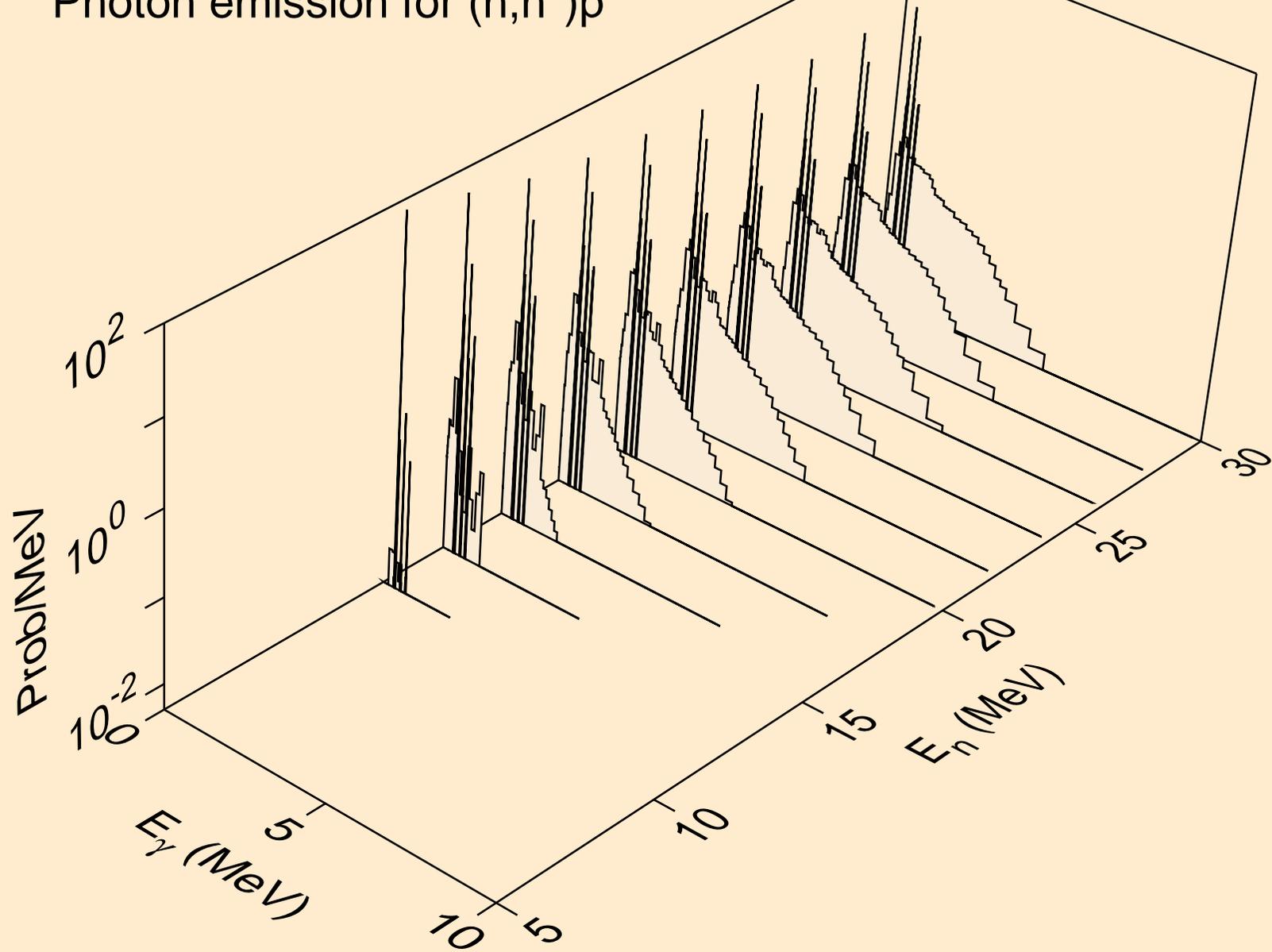Photon emission for (n,n*)a

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
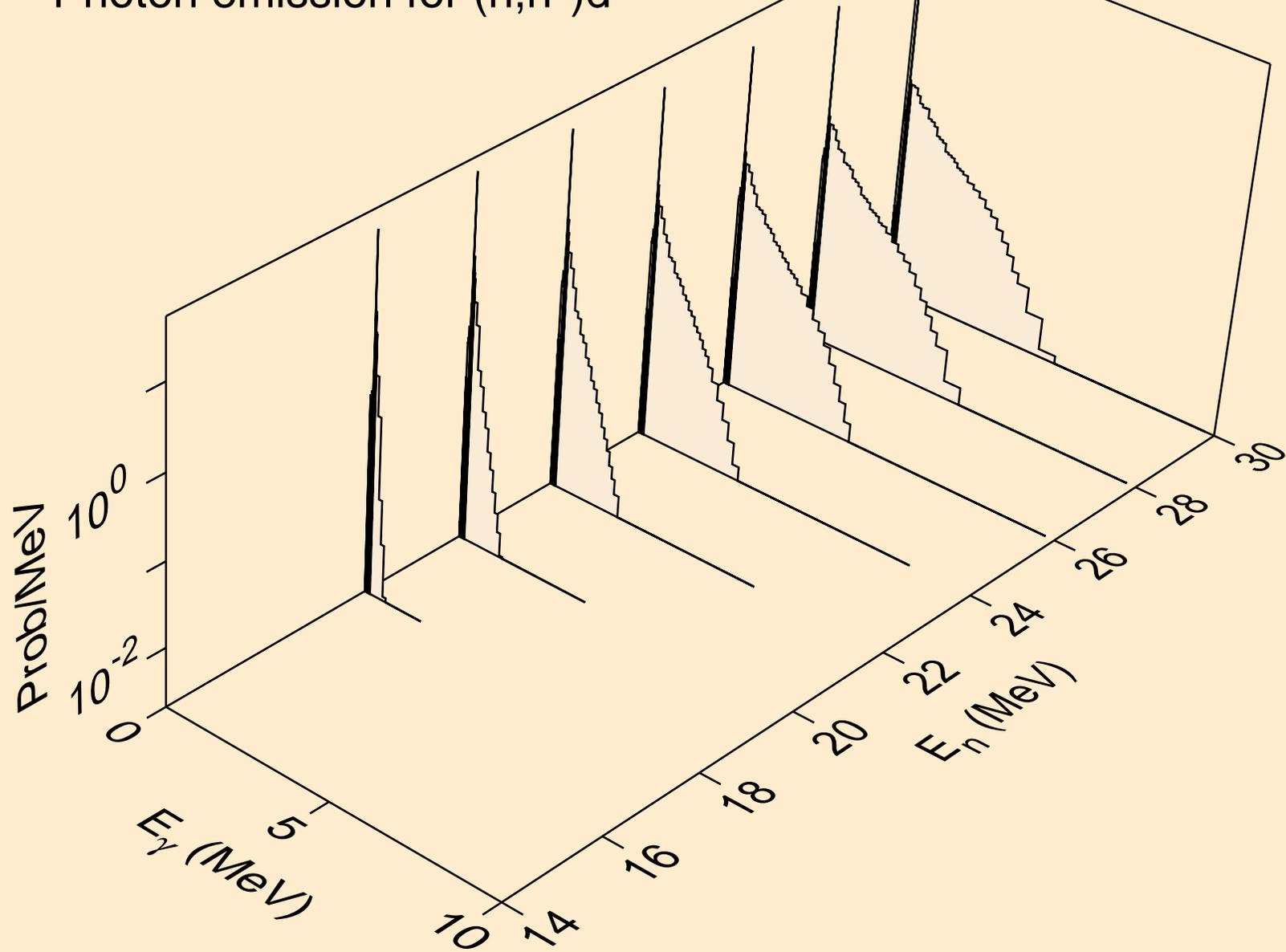Photon emission for (n,2n)a

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
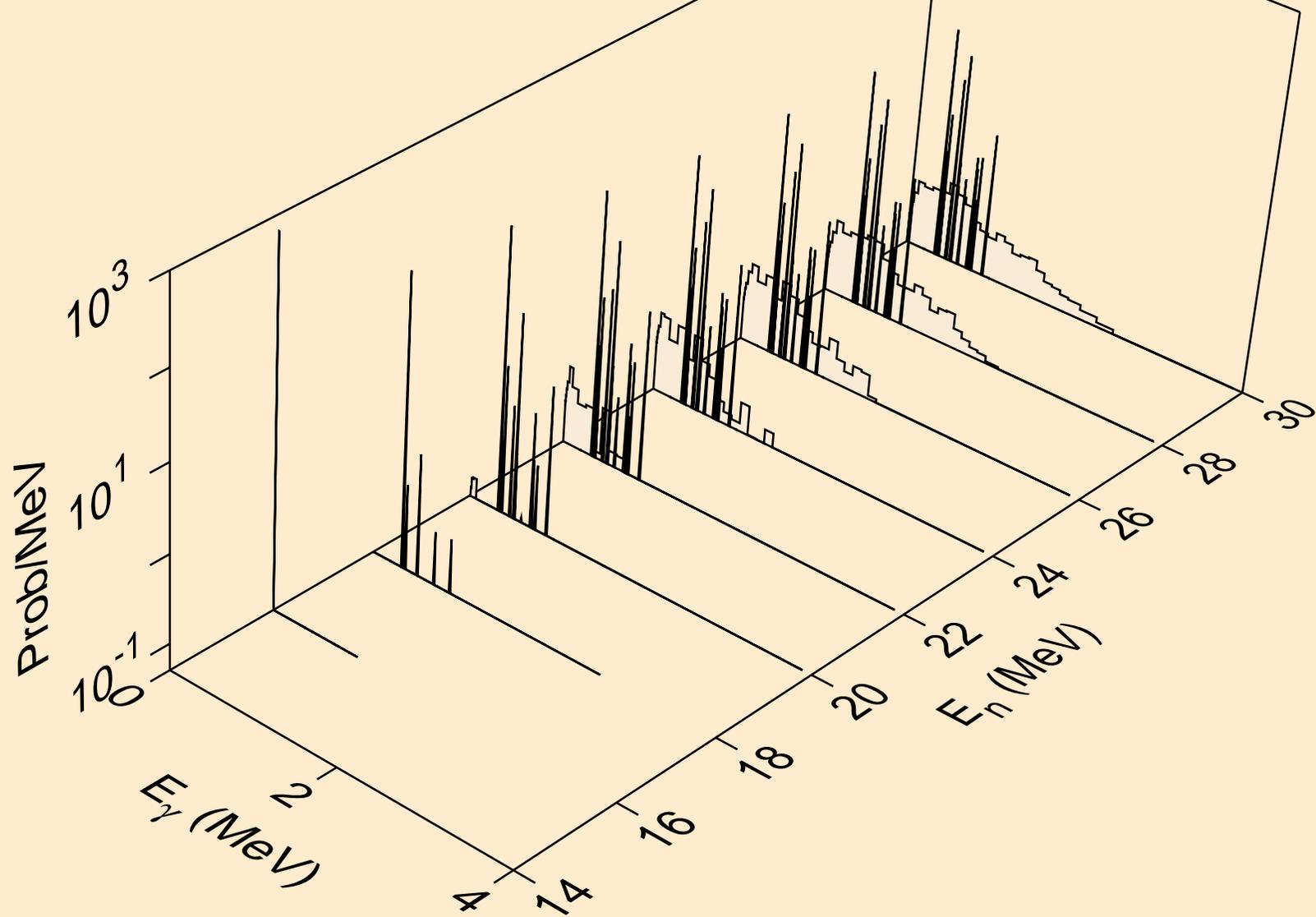Photon emission for (n,3n)a

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,n*)p

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,n*)d

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,n*)t

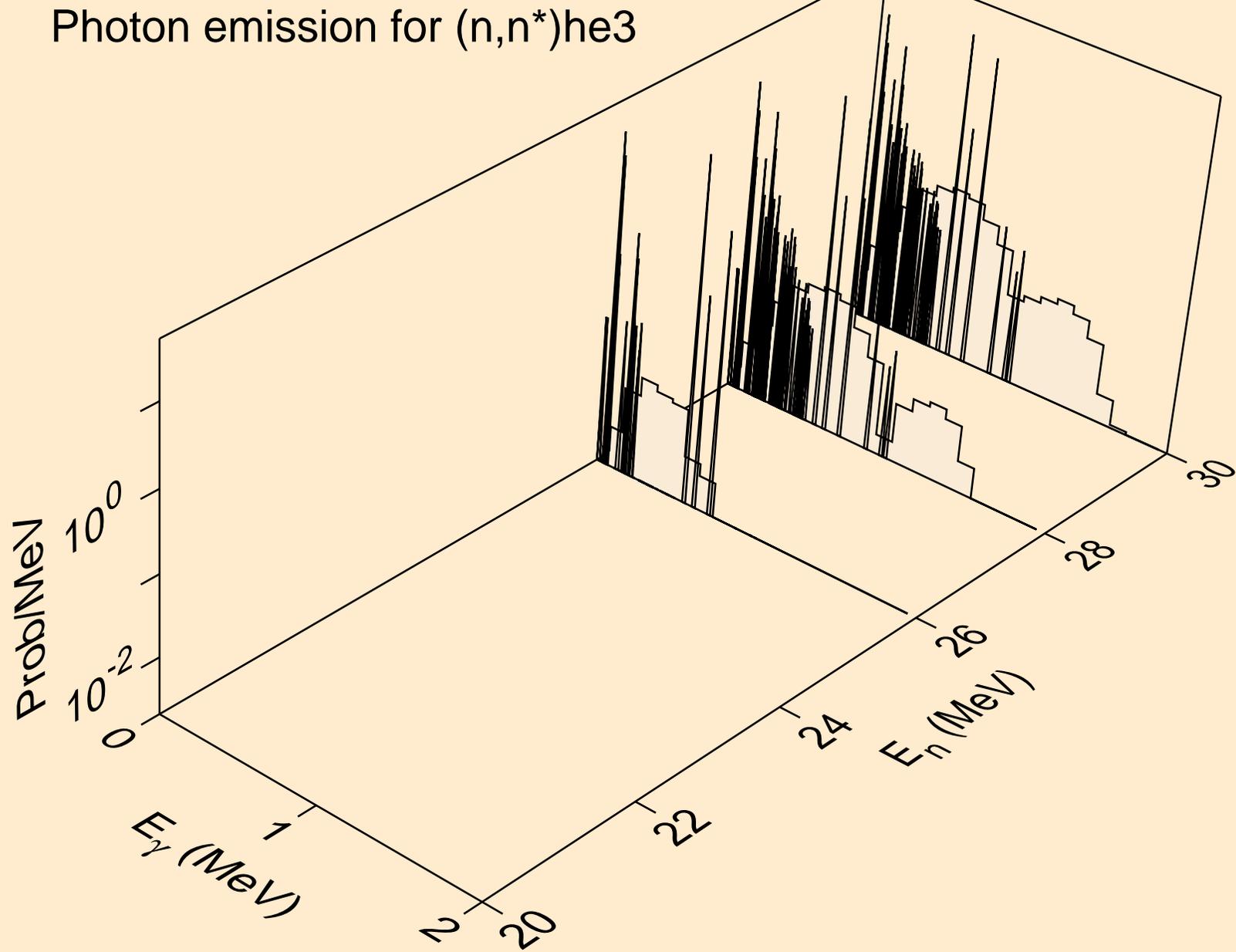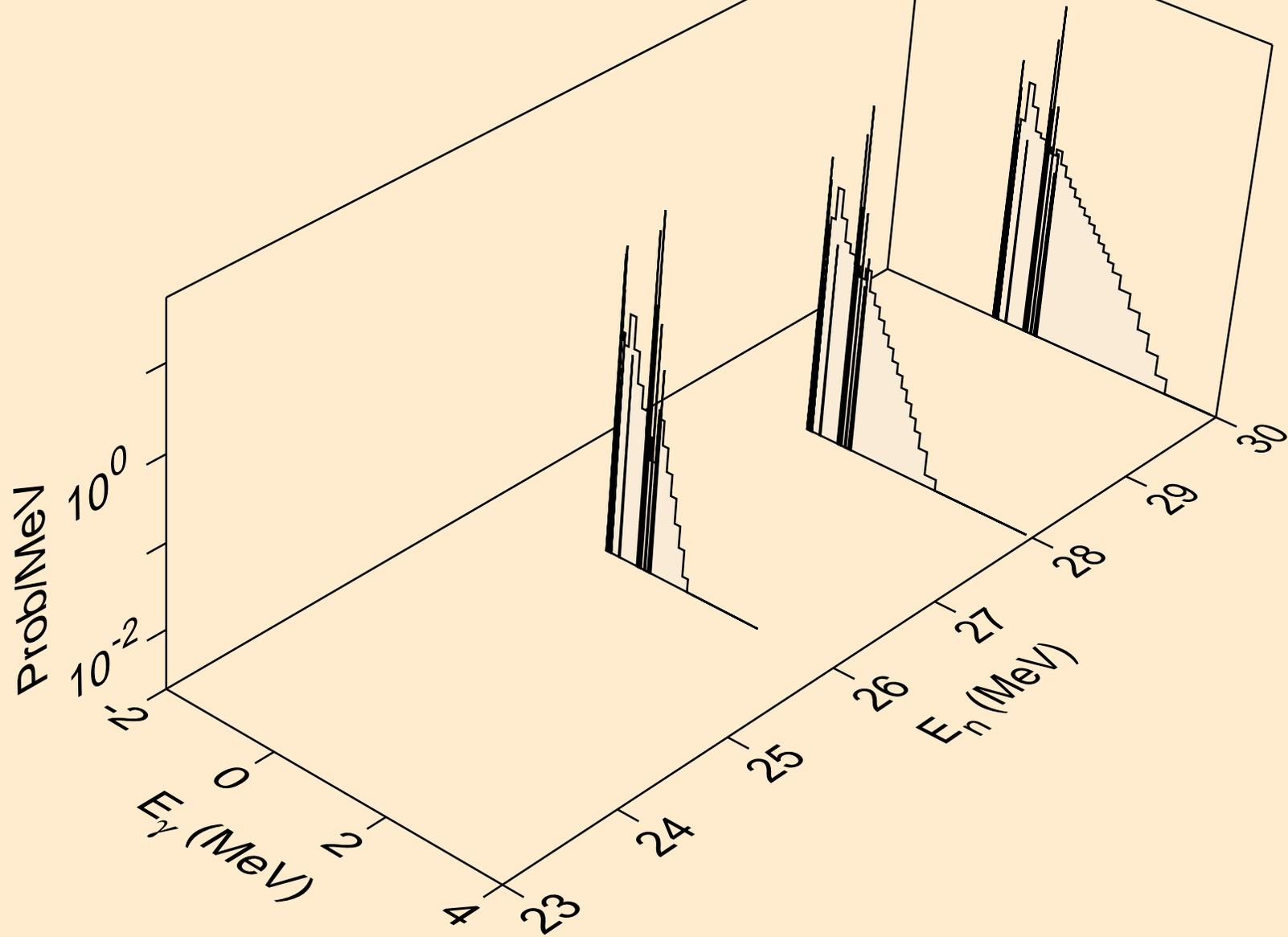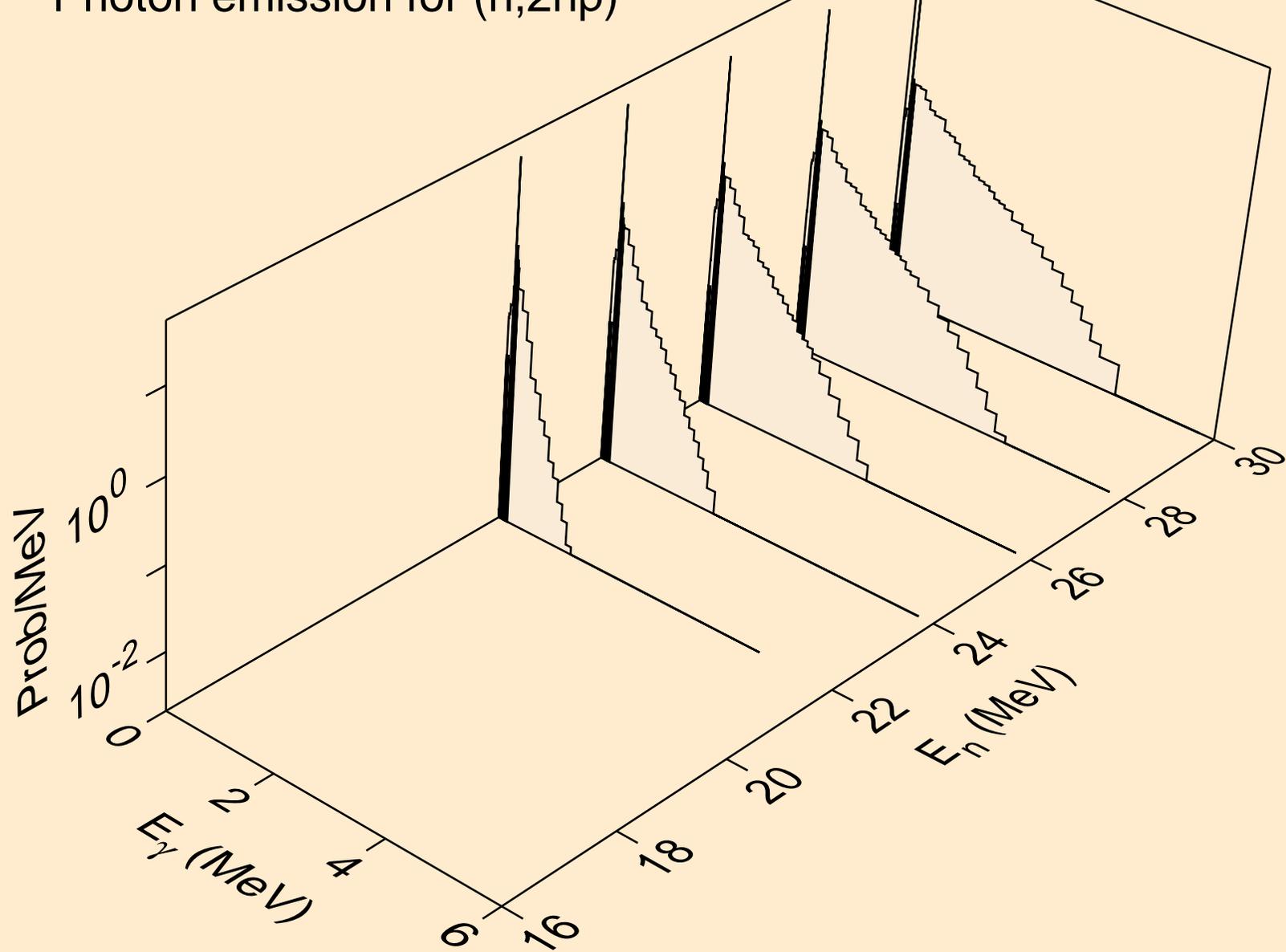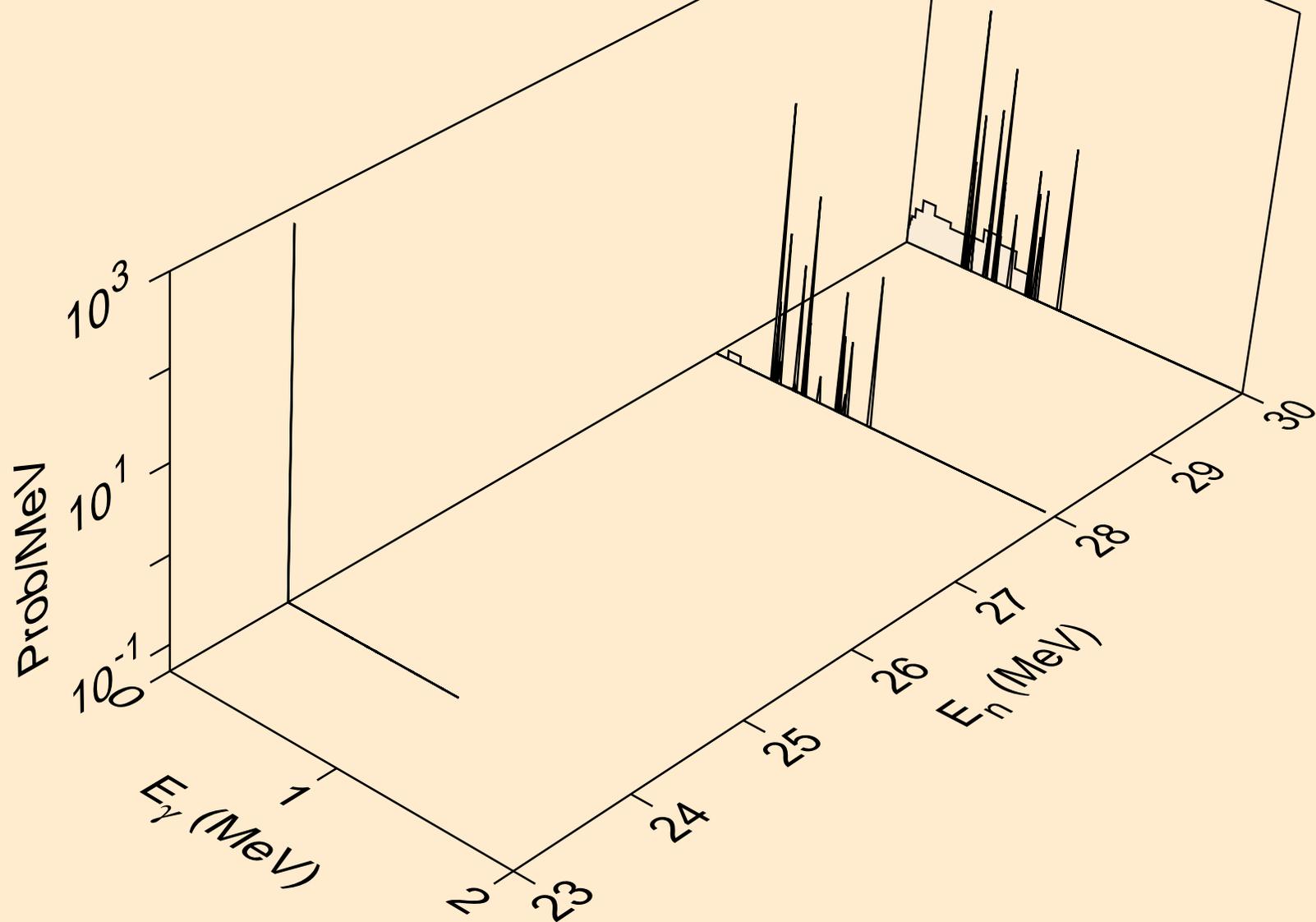RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,n*)he3

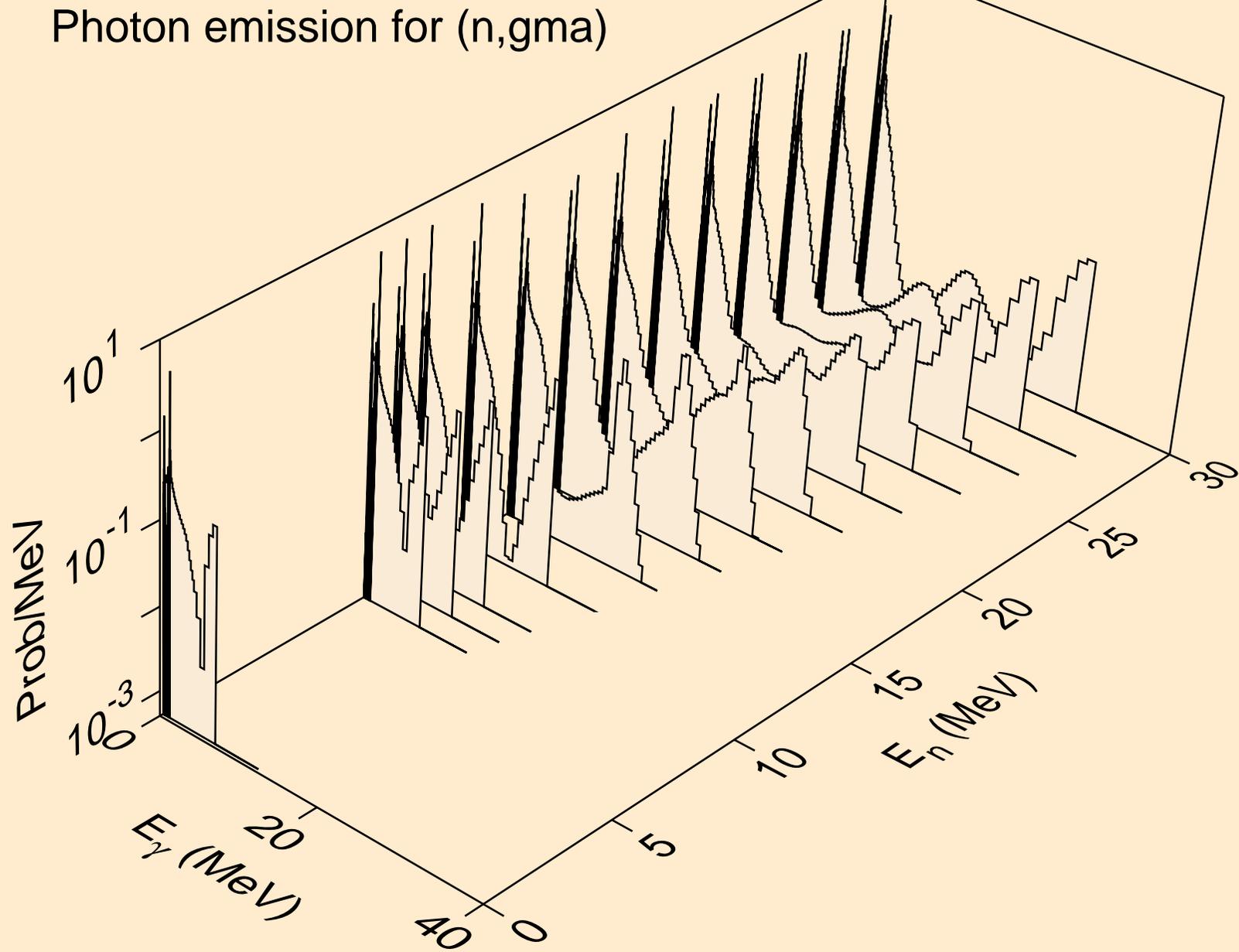RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,4n)

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
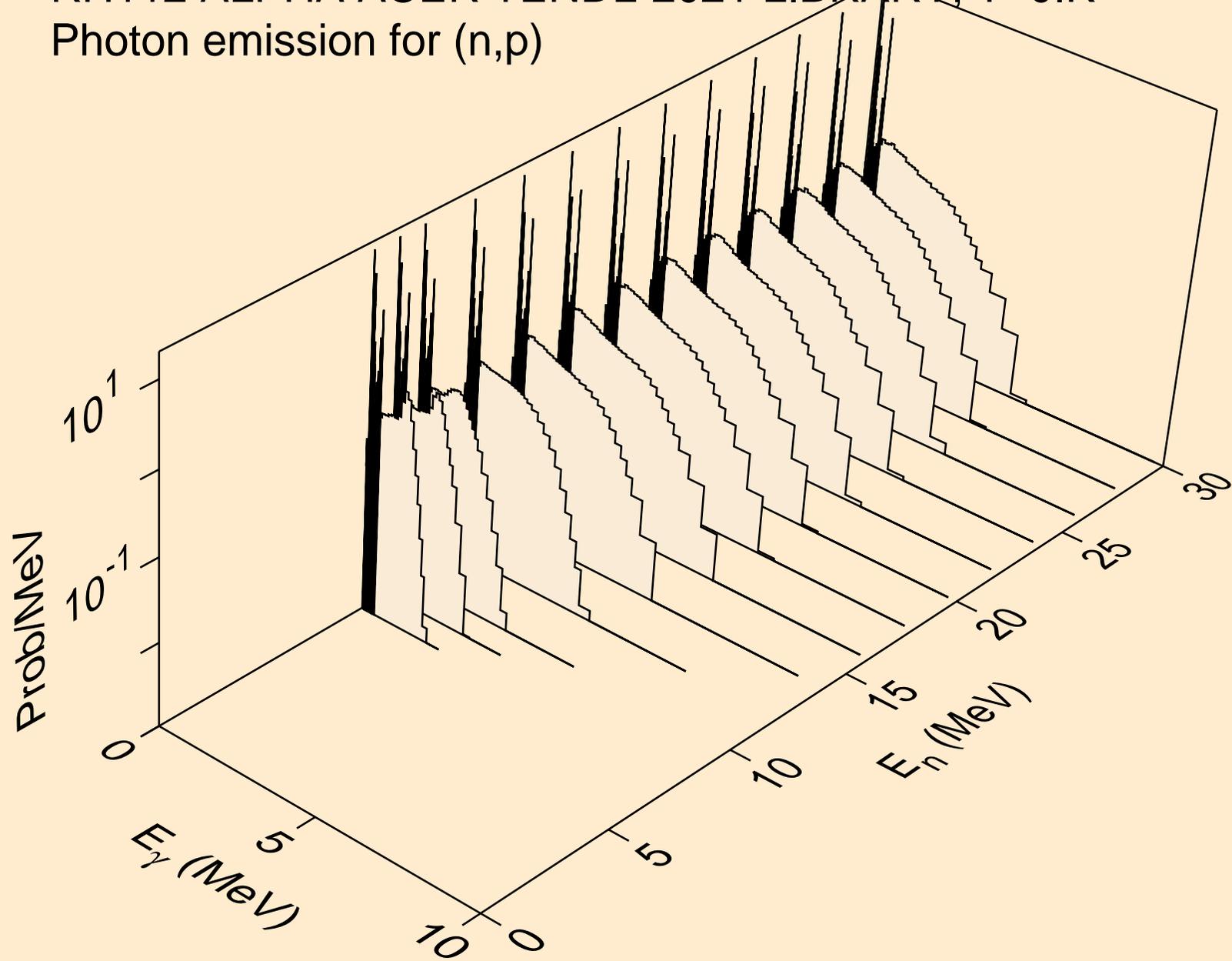Photon emission for (n,2np)

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,3np)

E_γ (MeV)

E_n (MeV)

Prob/MeV

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,gma)

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,p)

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
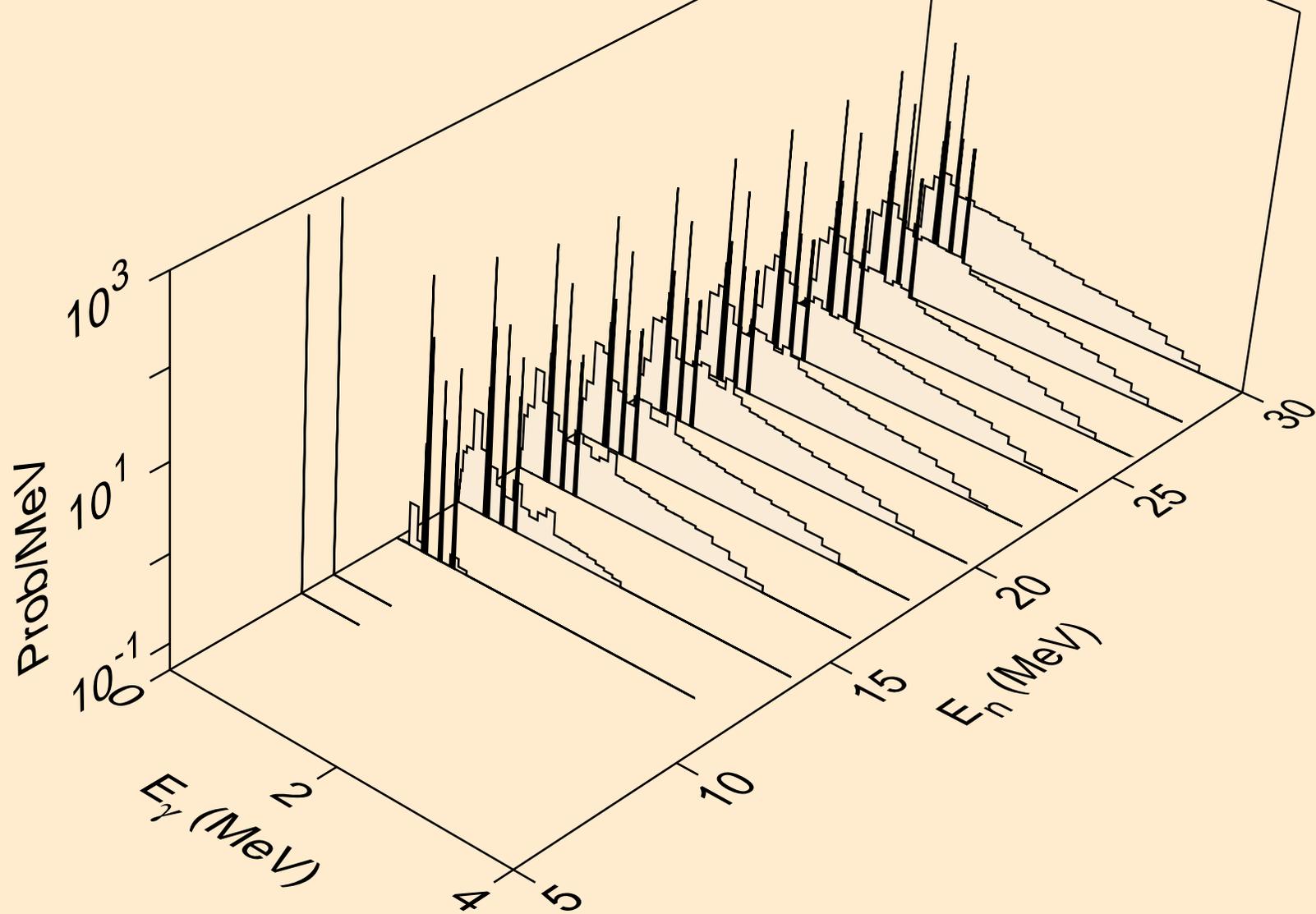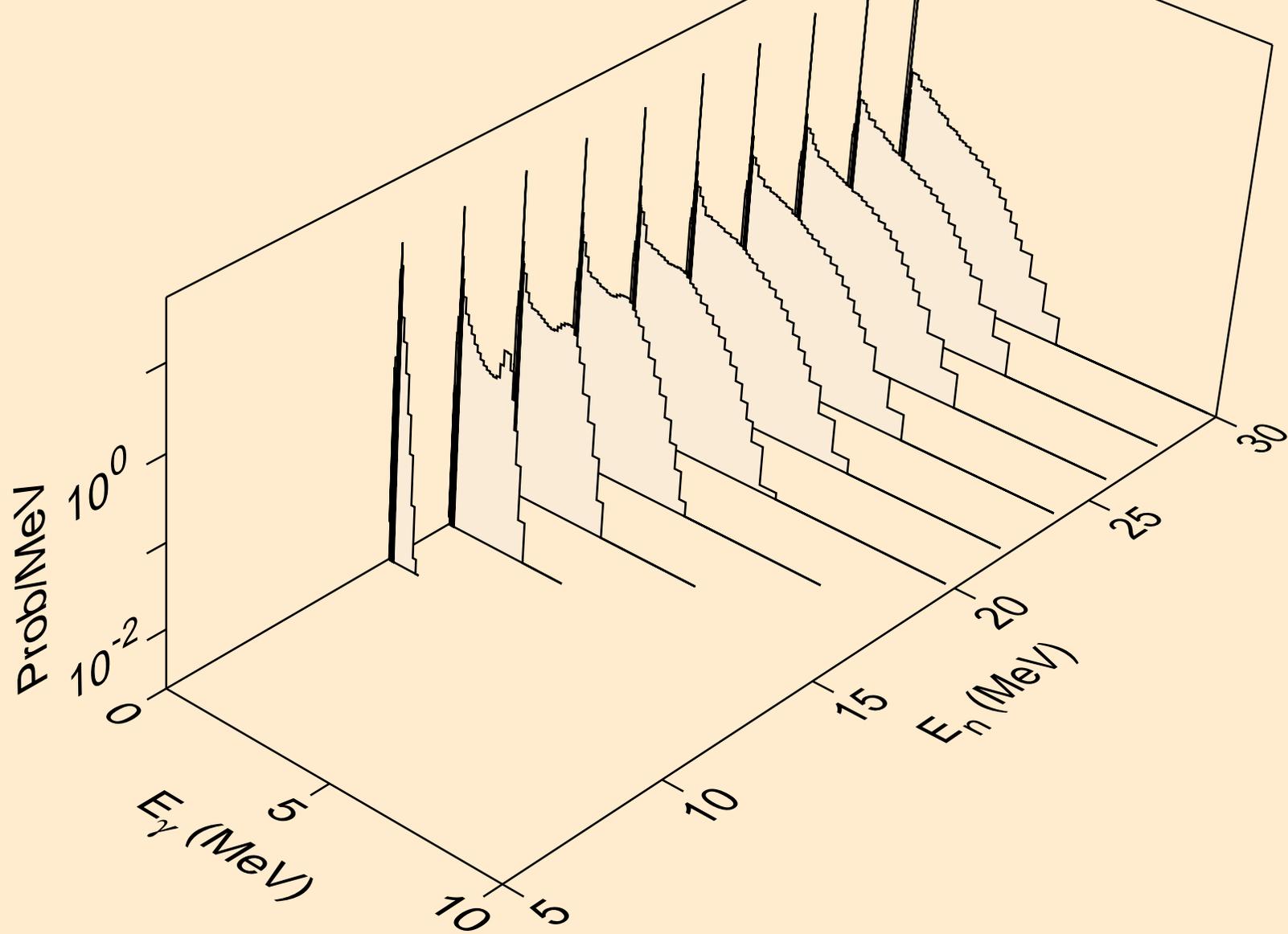Photon emission for (n,d)

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,t)

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,he3)

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
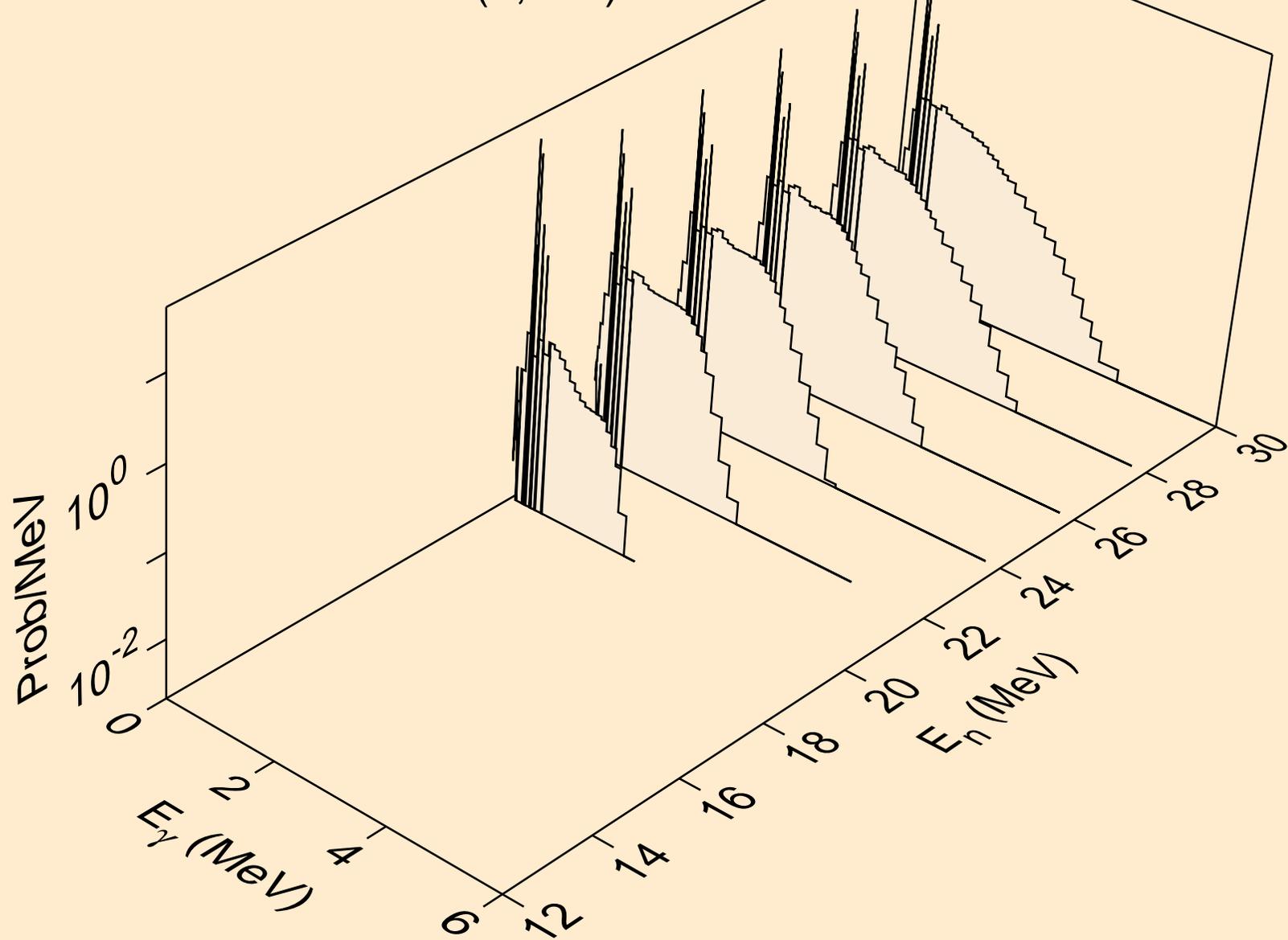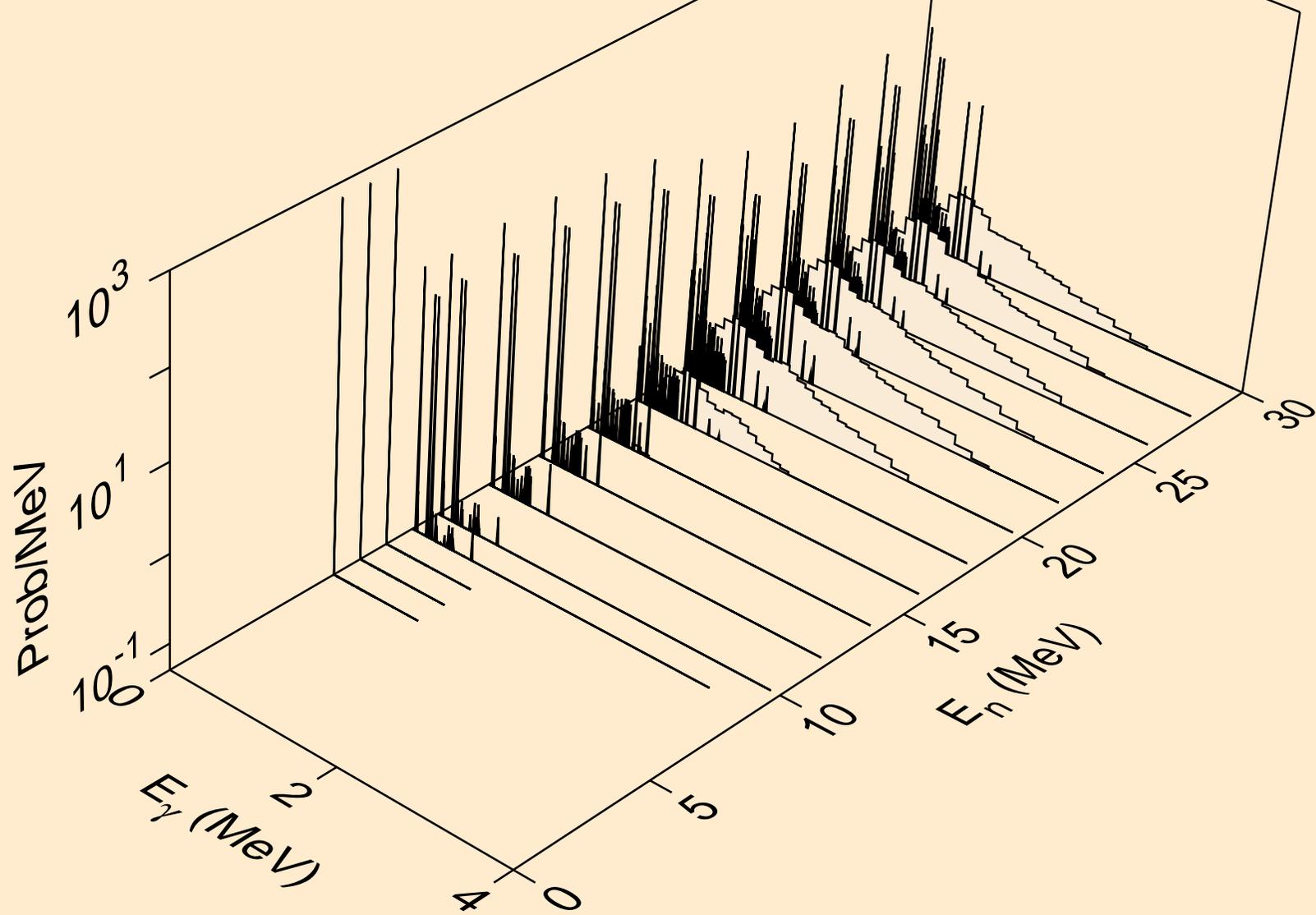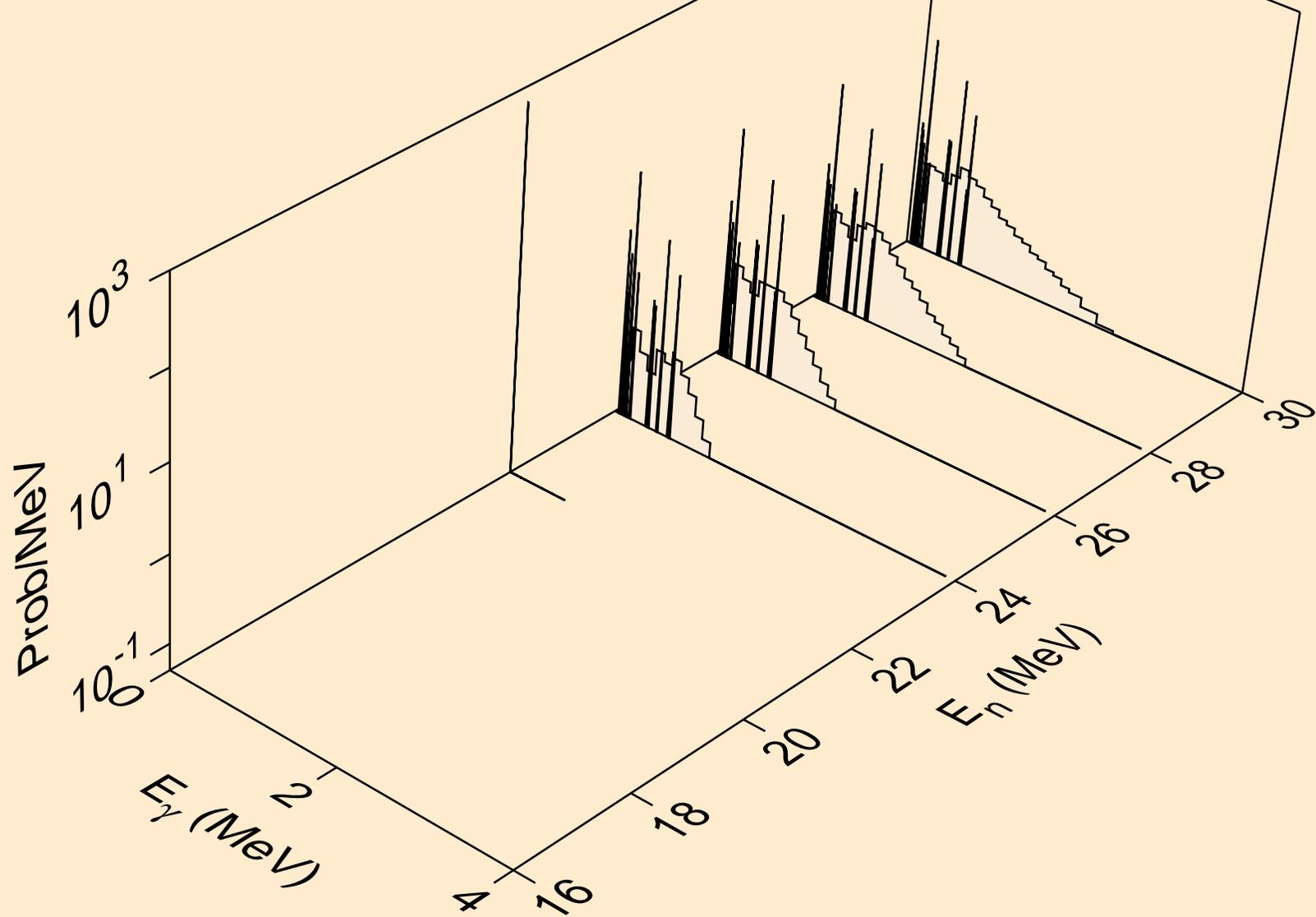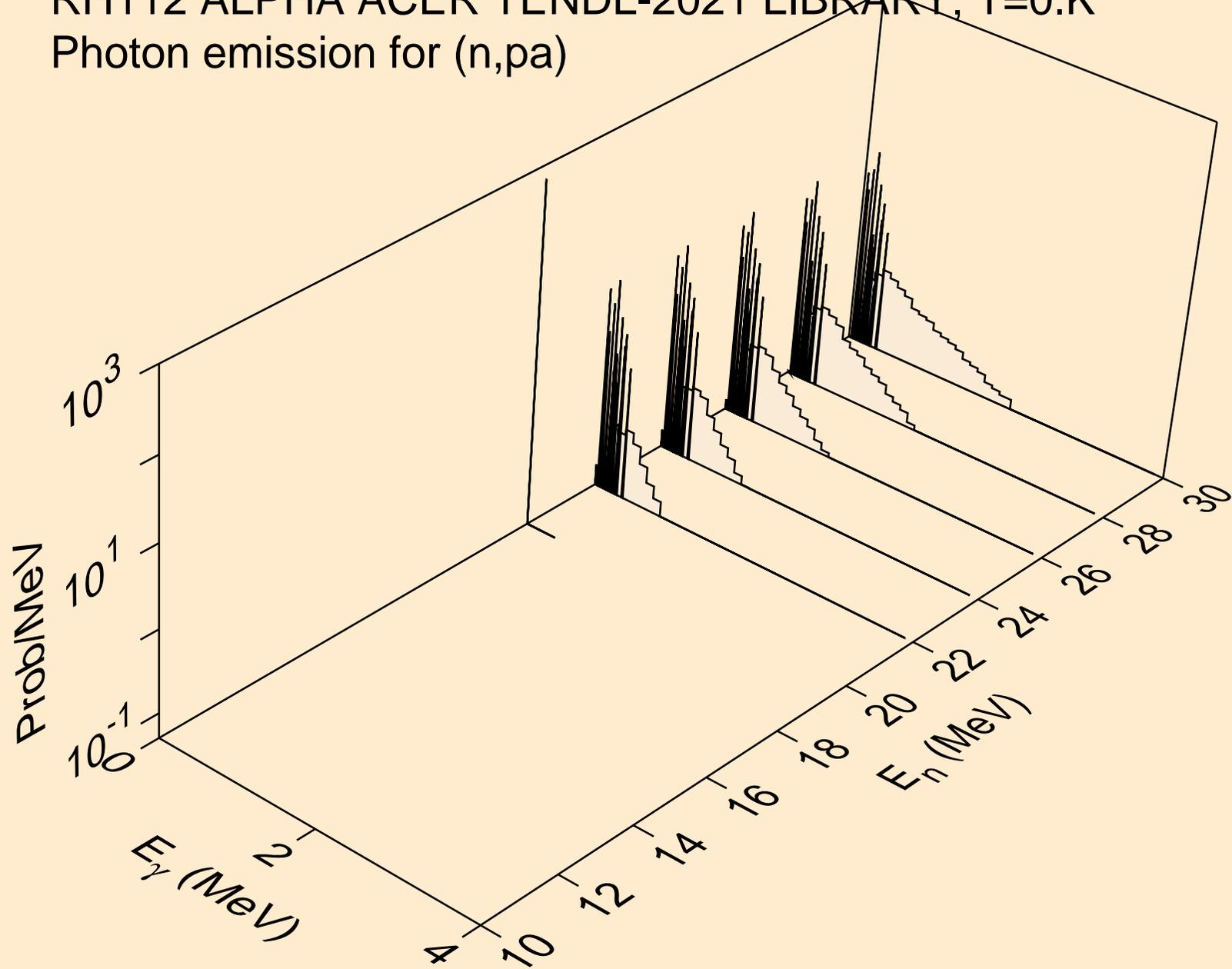Photon emission for inelastic

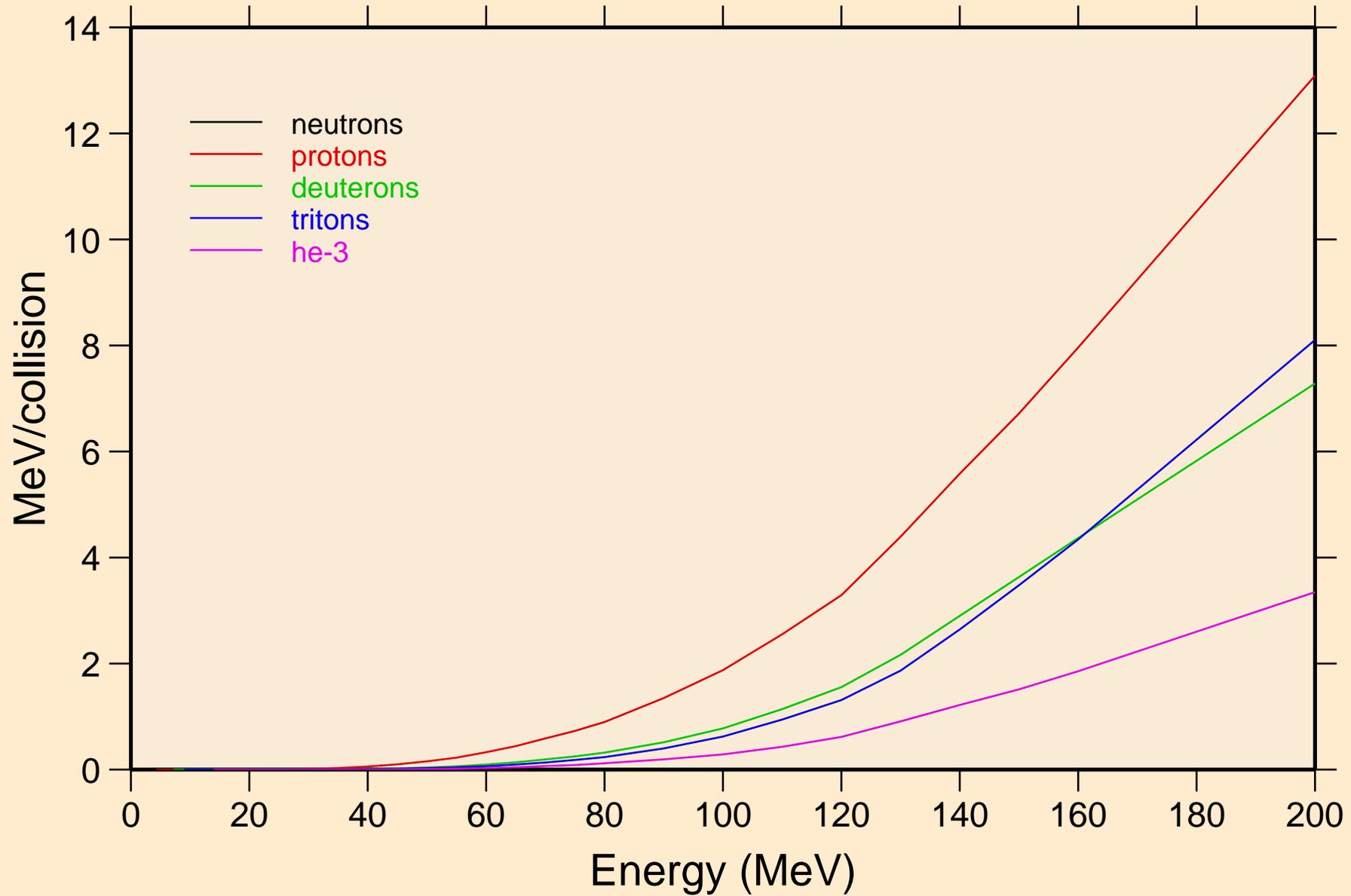RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,2p)

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
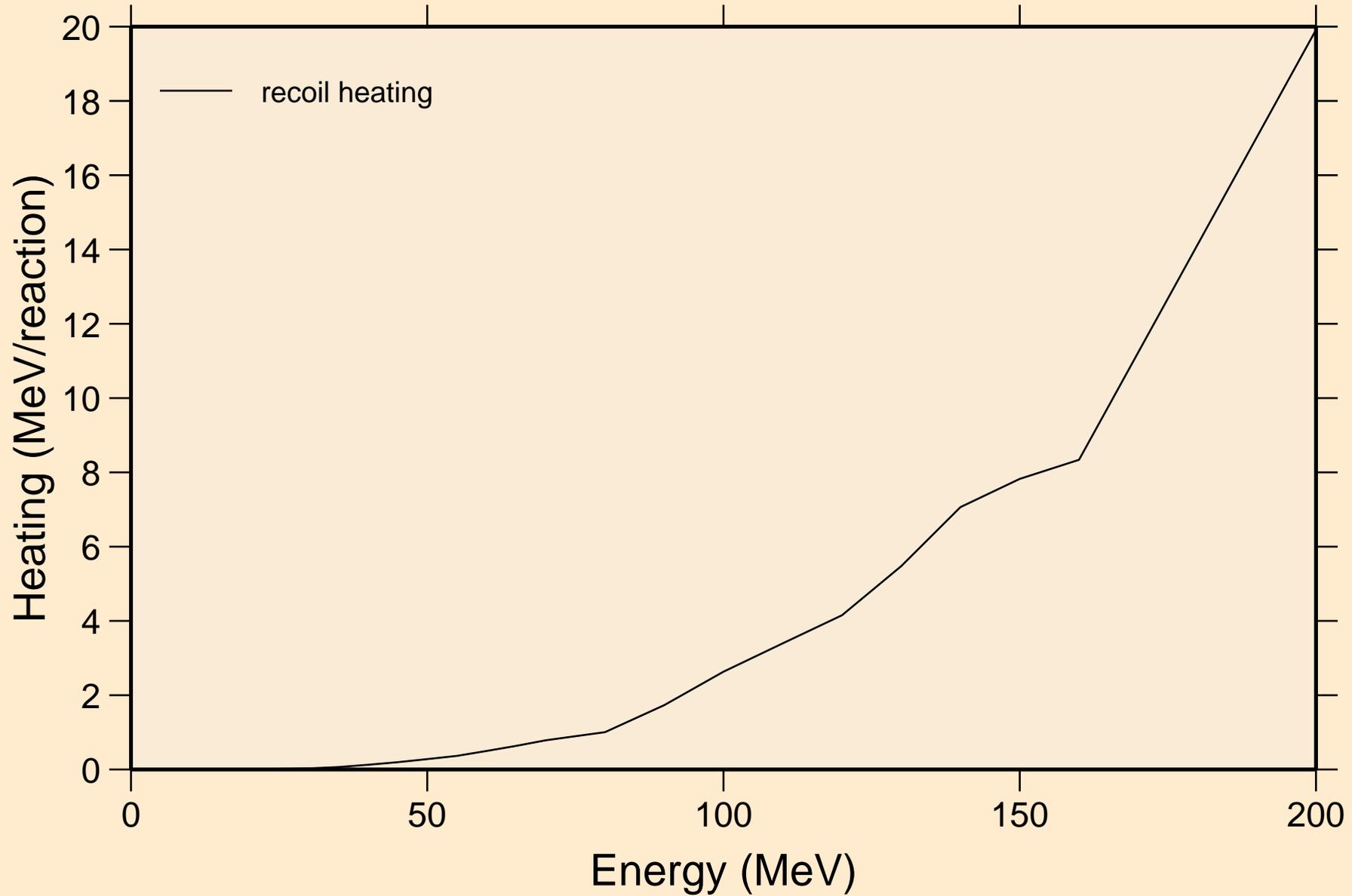Photon emission for (n,pa)
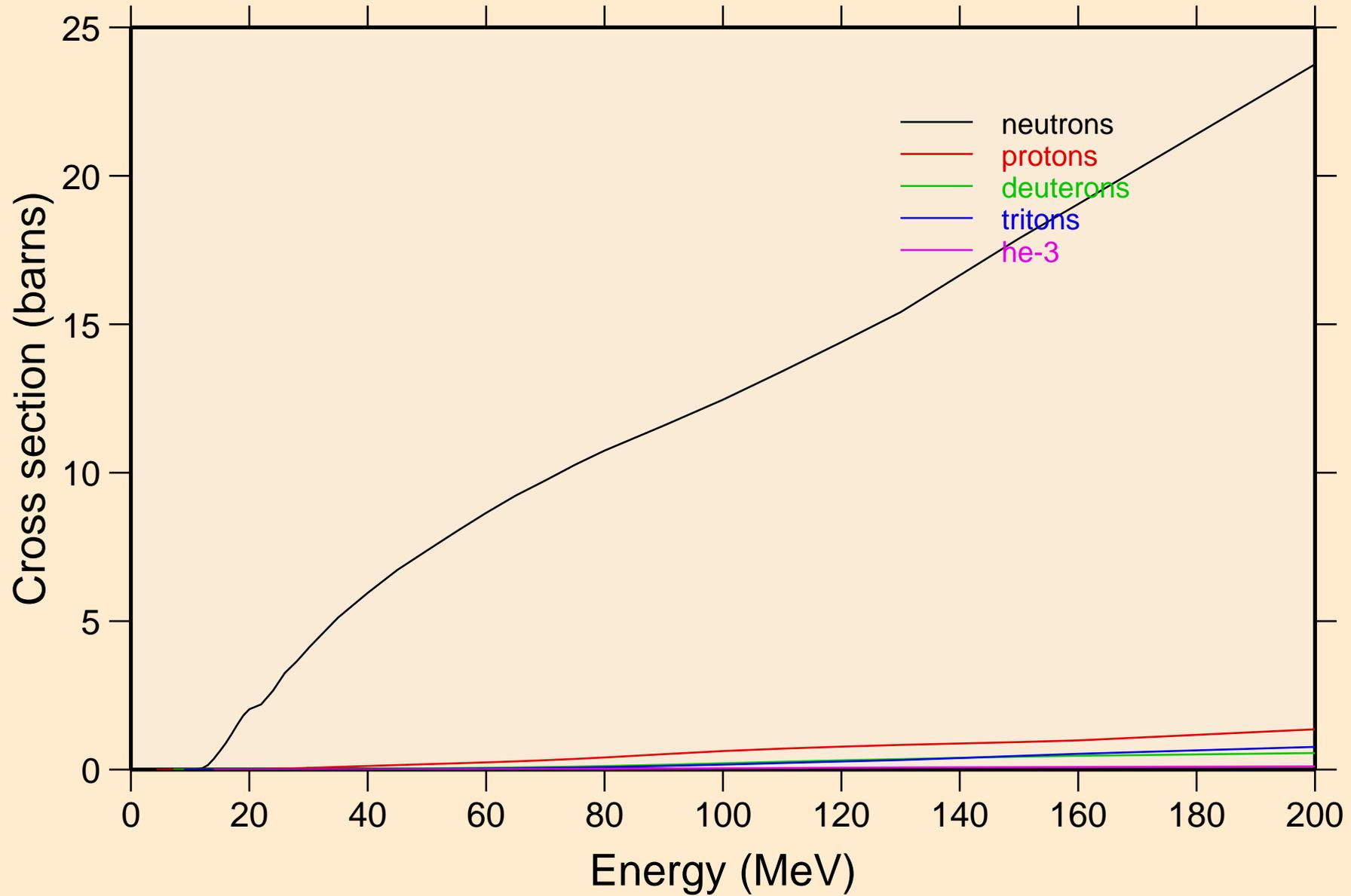
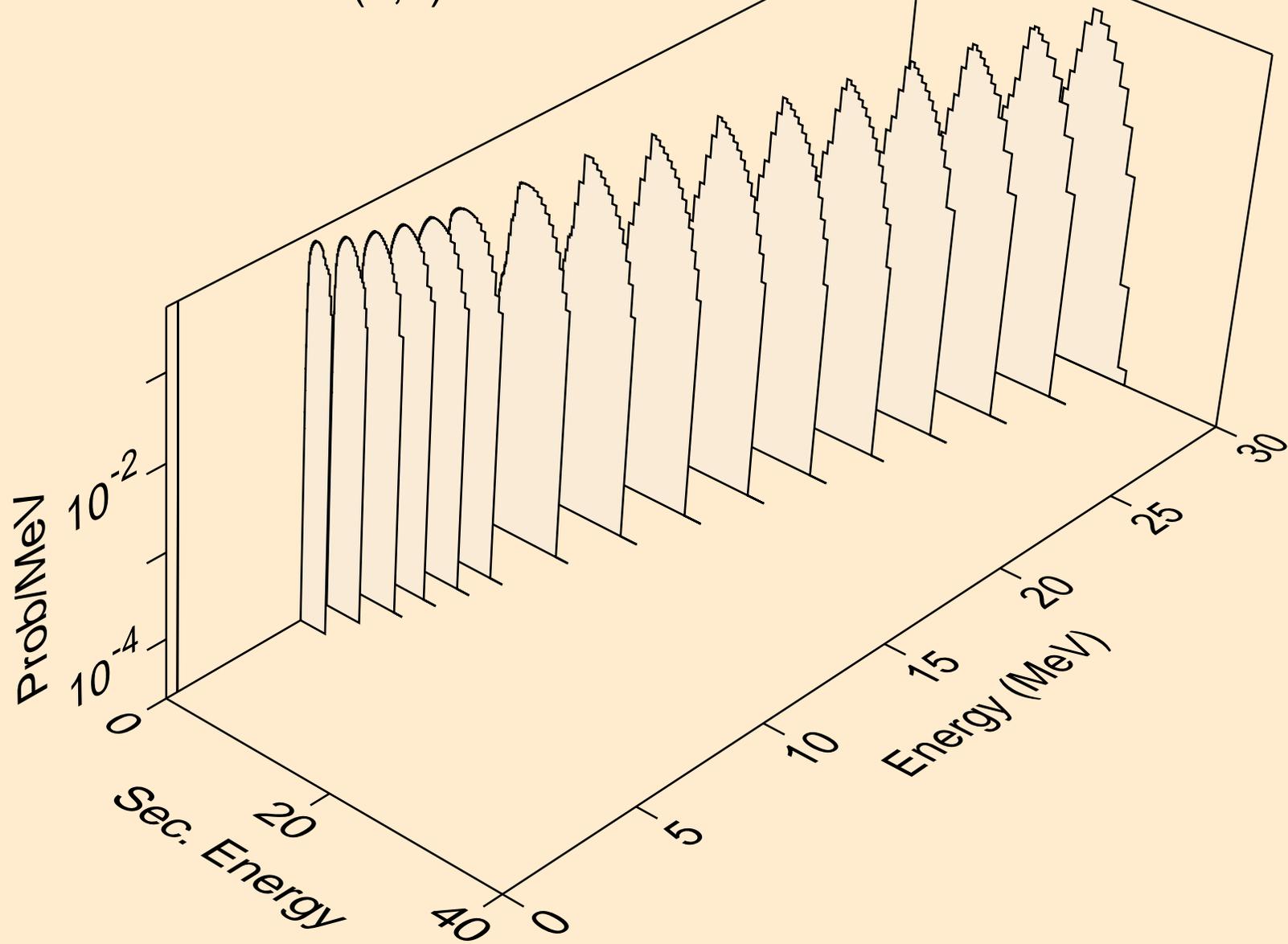RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Particle heating contributions

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

MeV/collision vs Energy (MeV)

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Recoil Heating

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
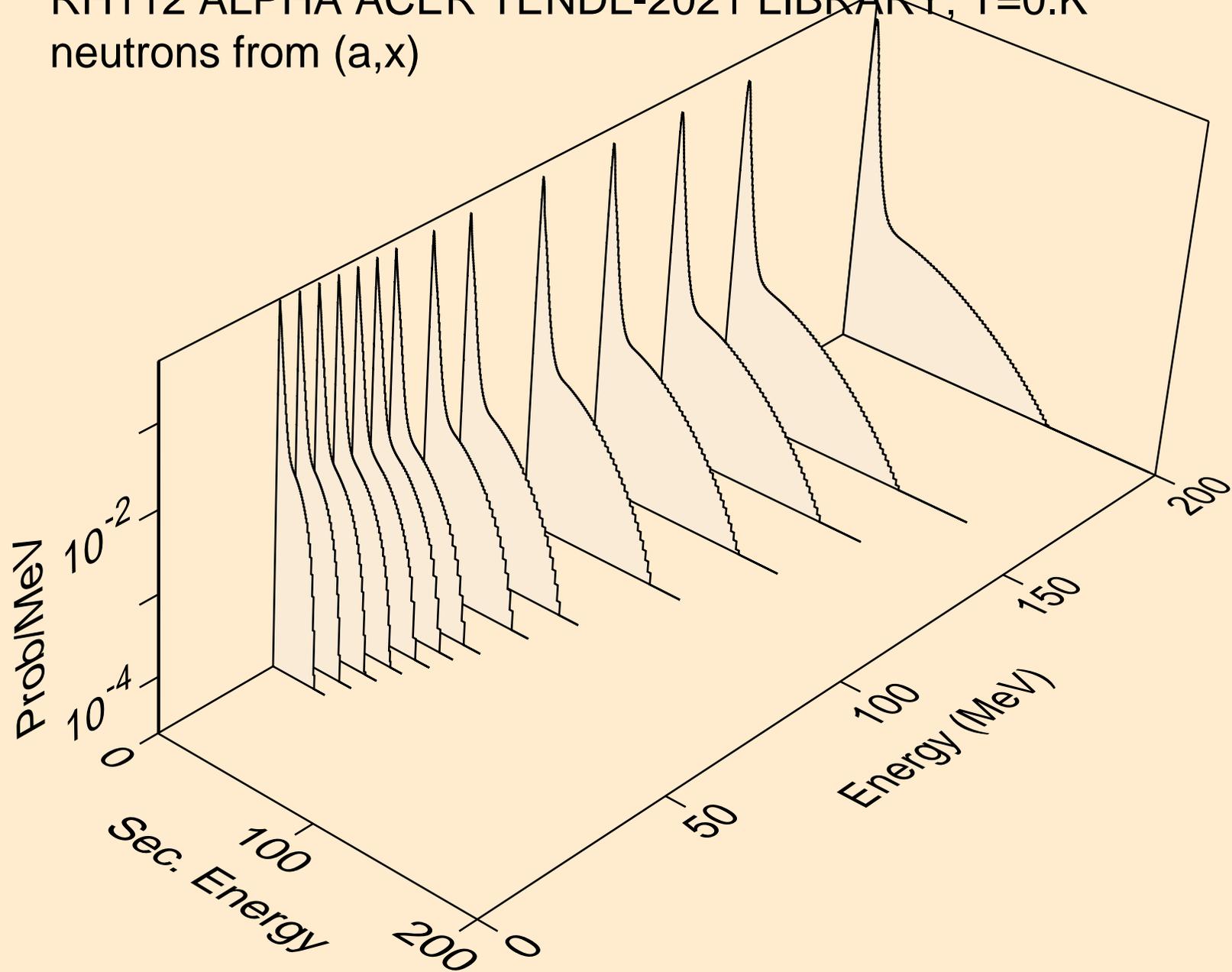Particle production cross sections

neutrons
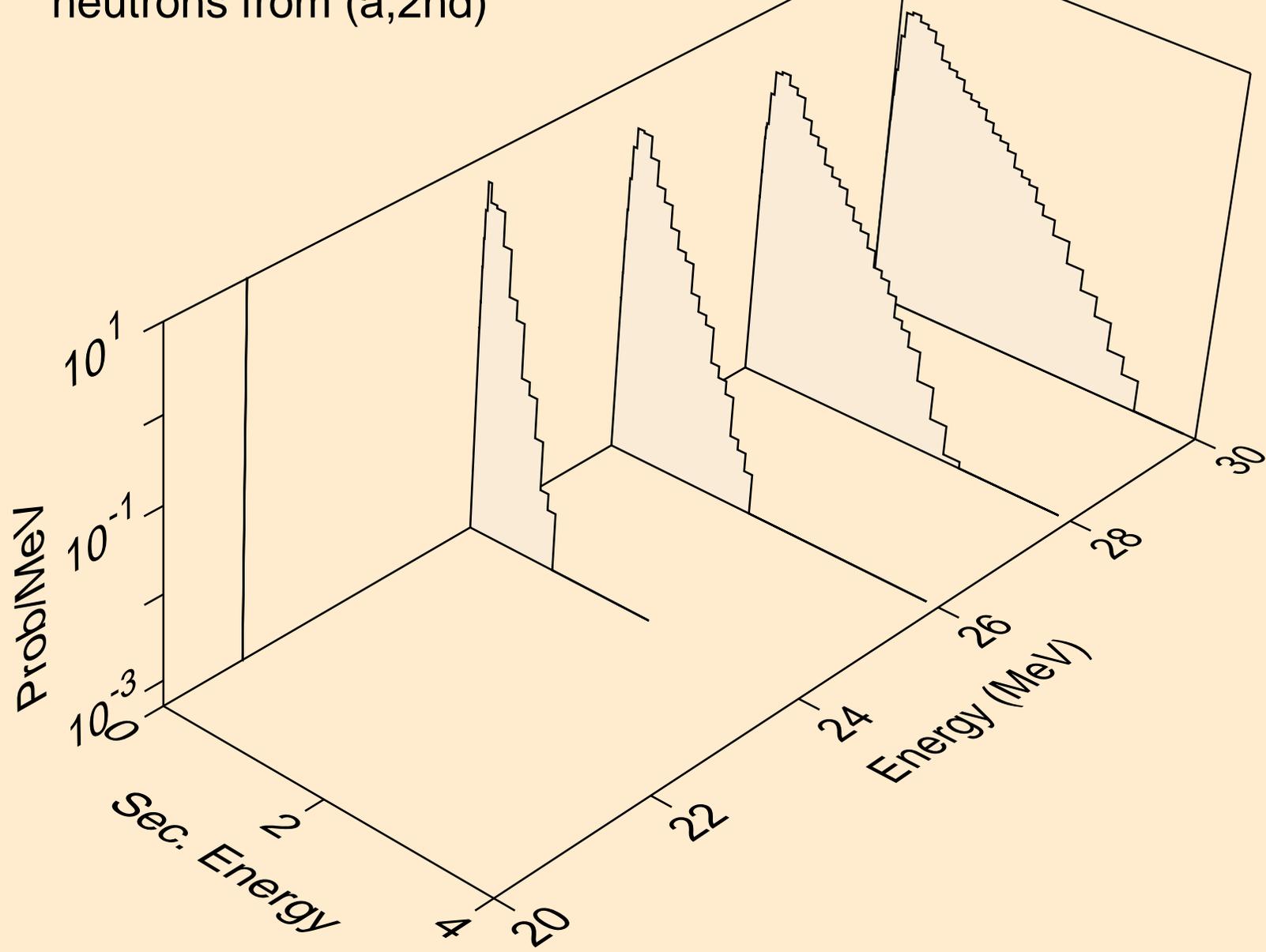protons
deuterons
tritons
he-3

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (a,n)

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (a,x)

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (a,2nd)

Prob/MeV

10^1

10^{-1}

10^{-3}

Sec. Energy

2

4

Energy (MeV)

20

22

24

26

28

30

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (a,2n)

Prob/MeV

10^1

10^{-1}

0

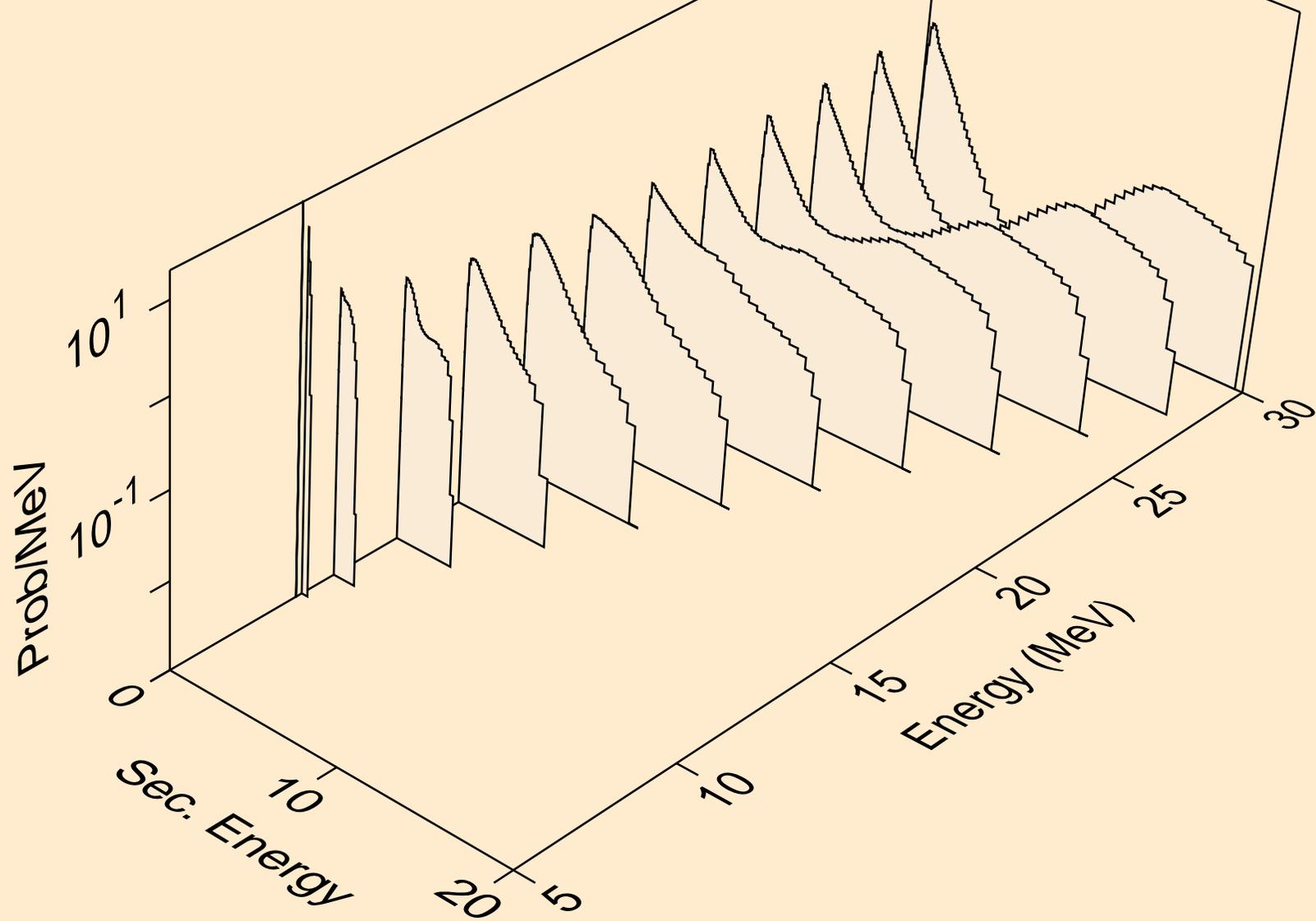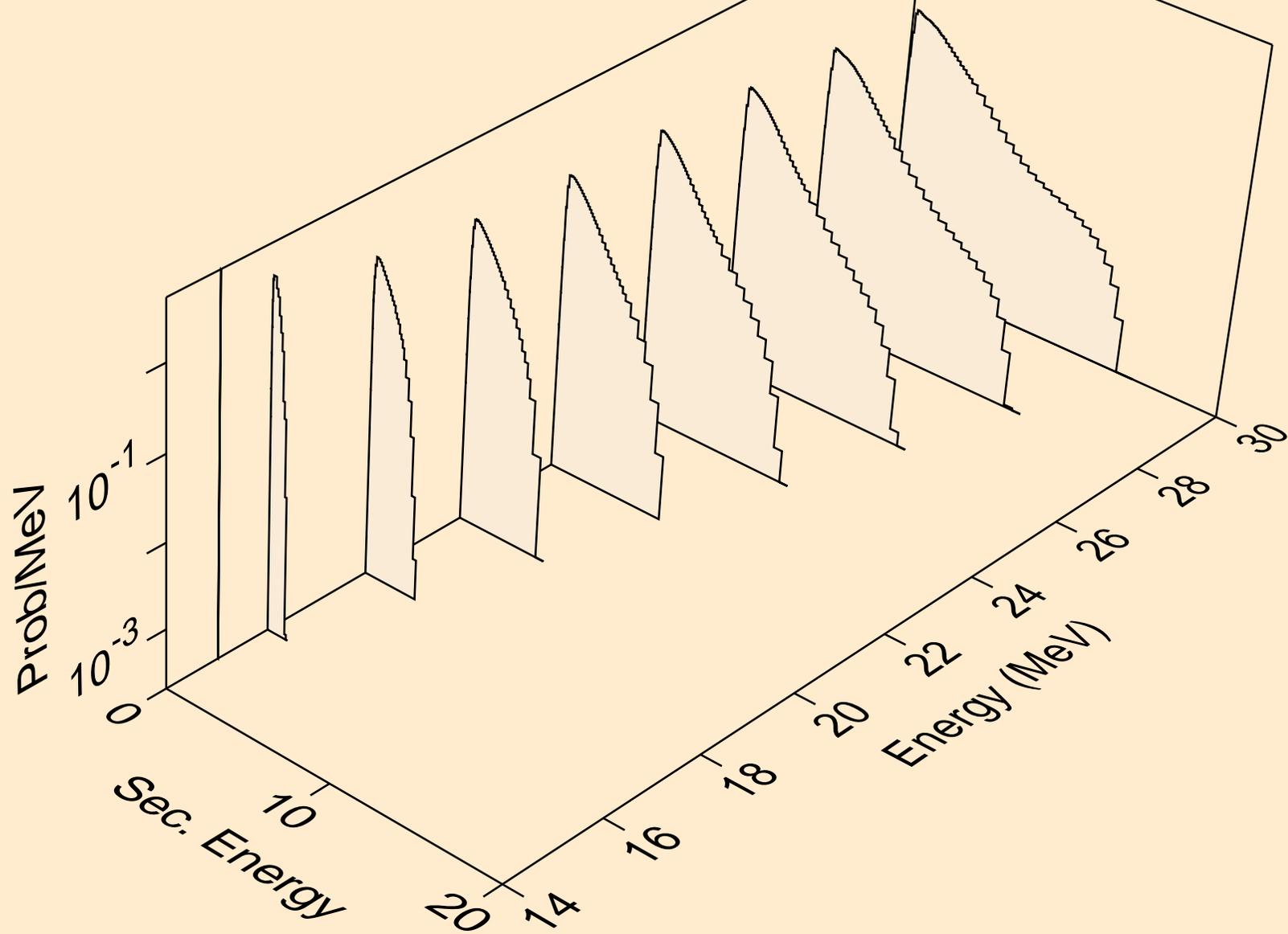Sec. Energy

10

20

Energy (MeV)

5

10

15

20

25

30

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (a,3n)

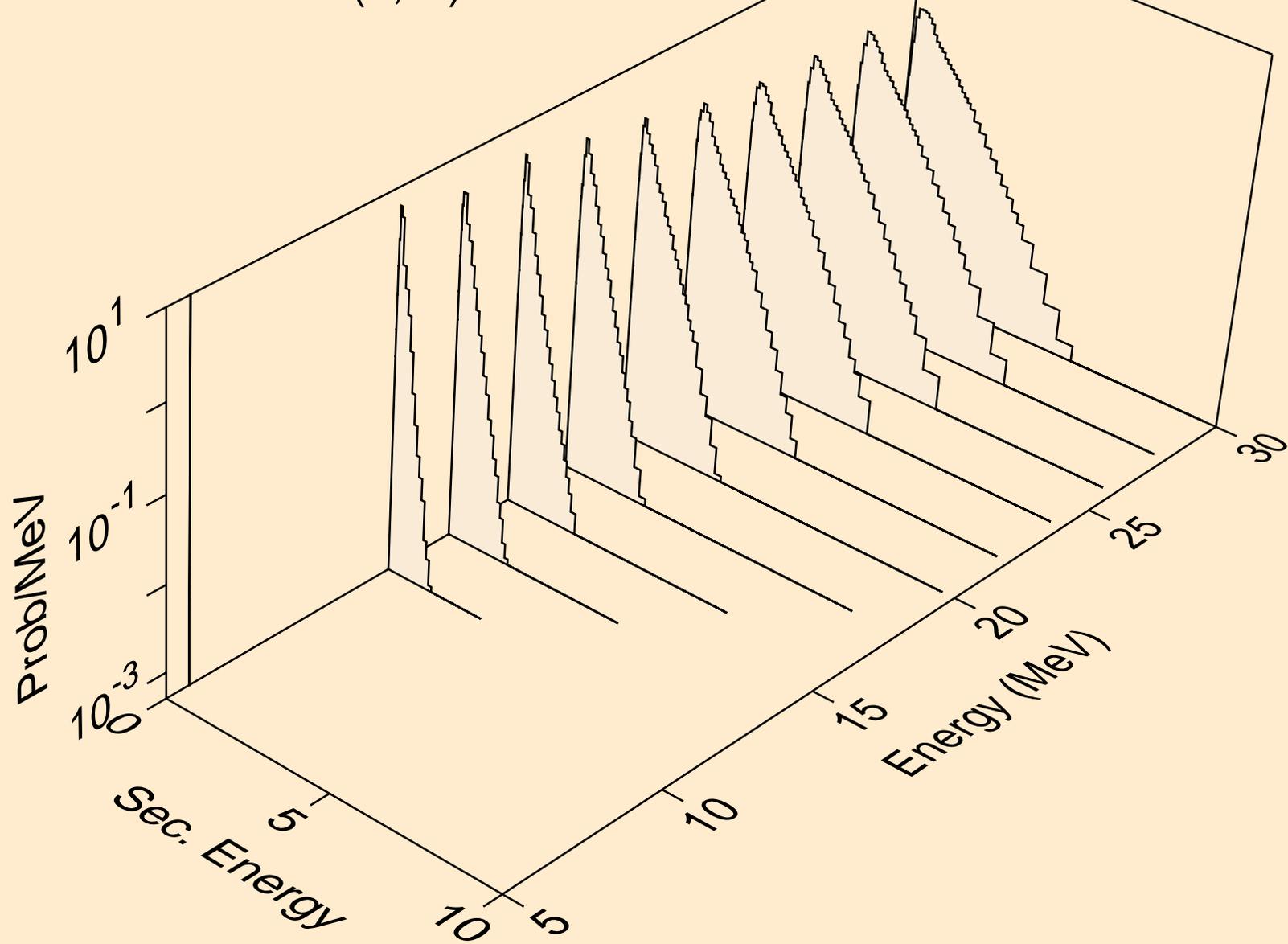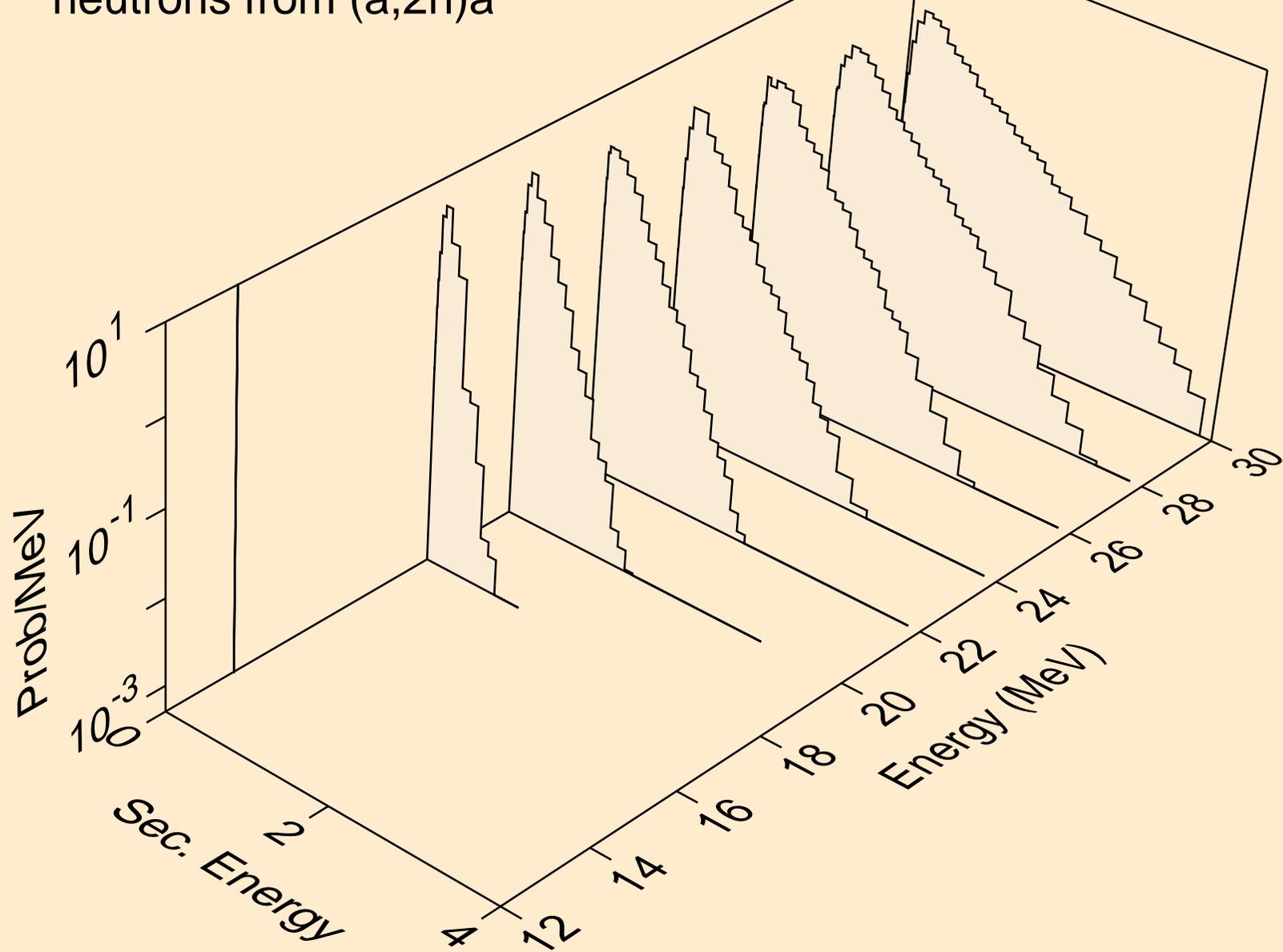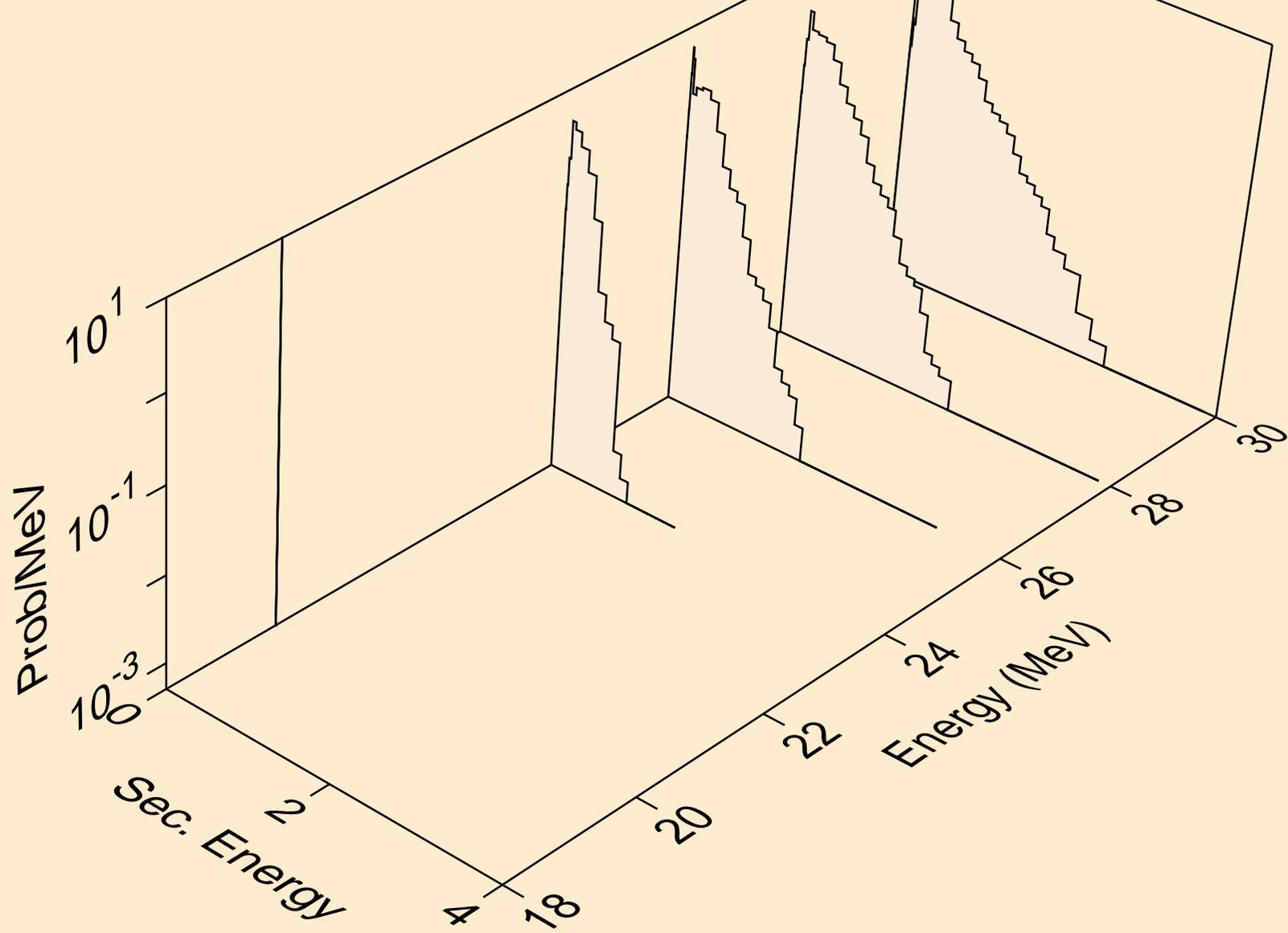RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
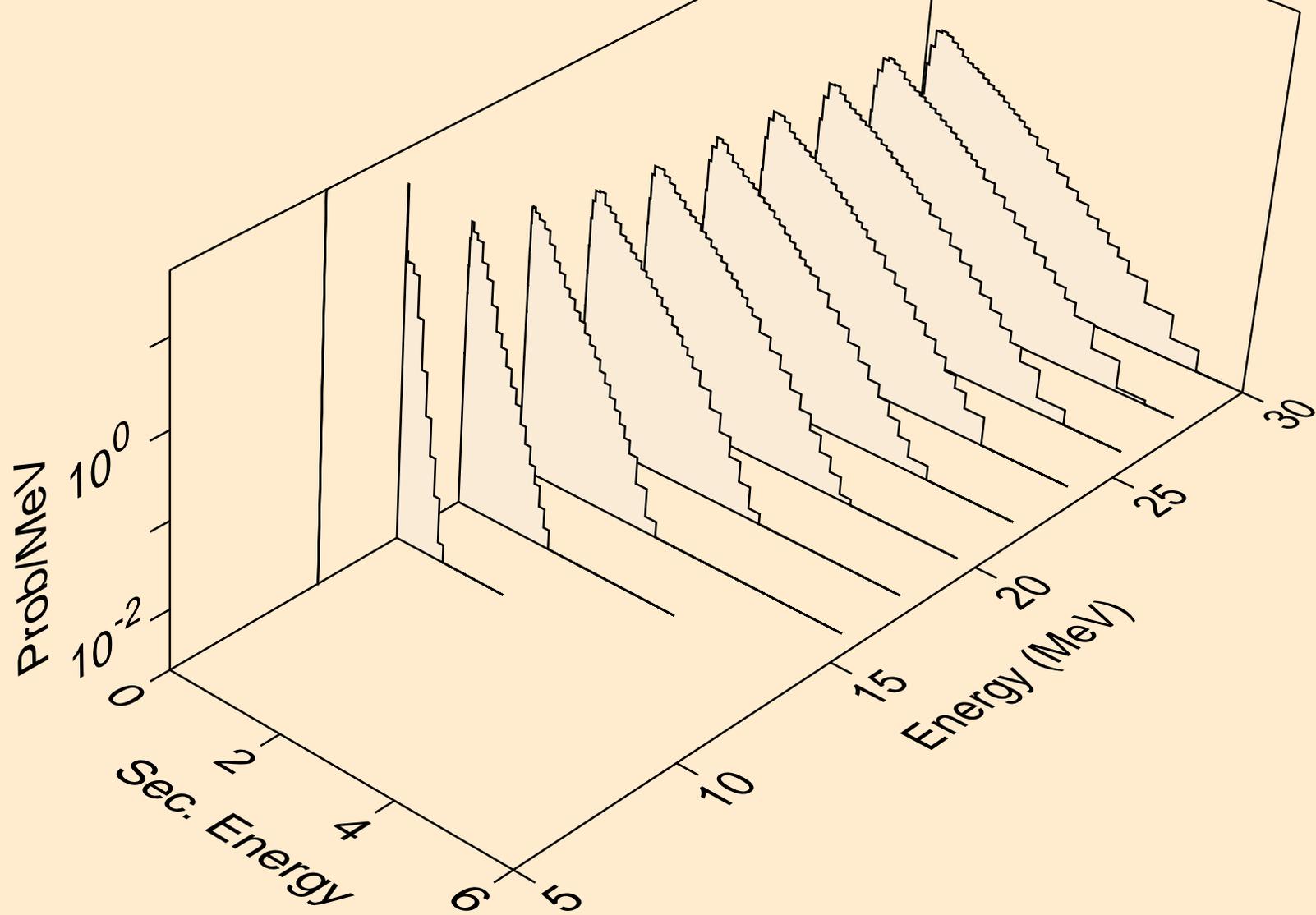neutrons from (a,n*)a

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
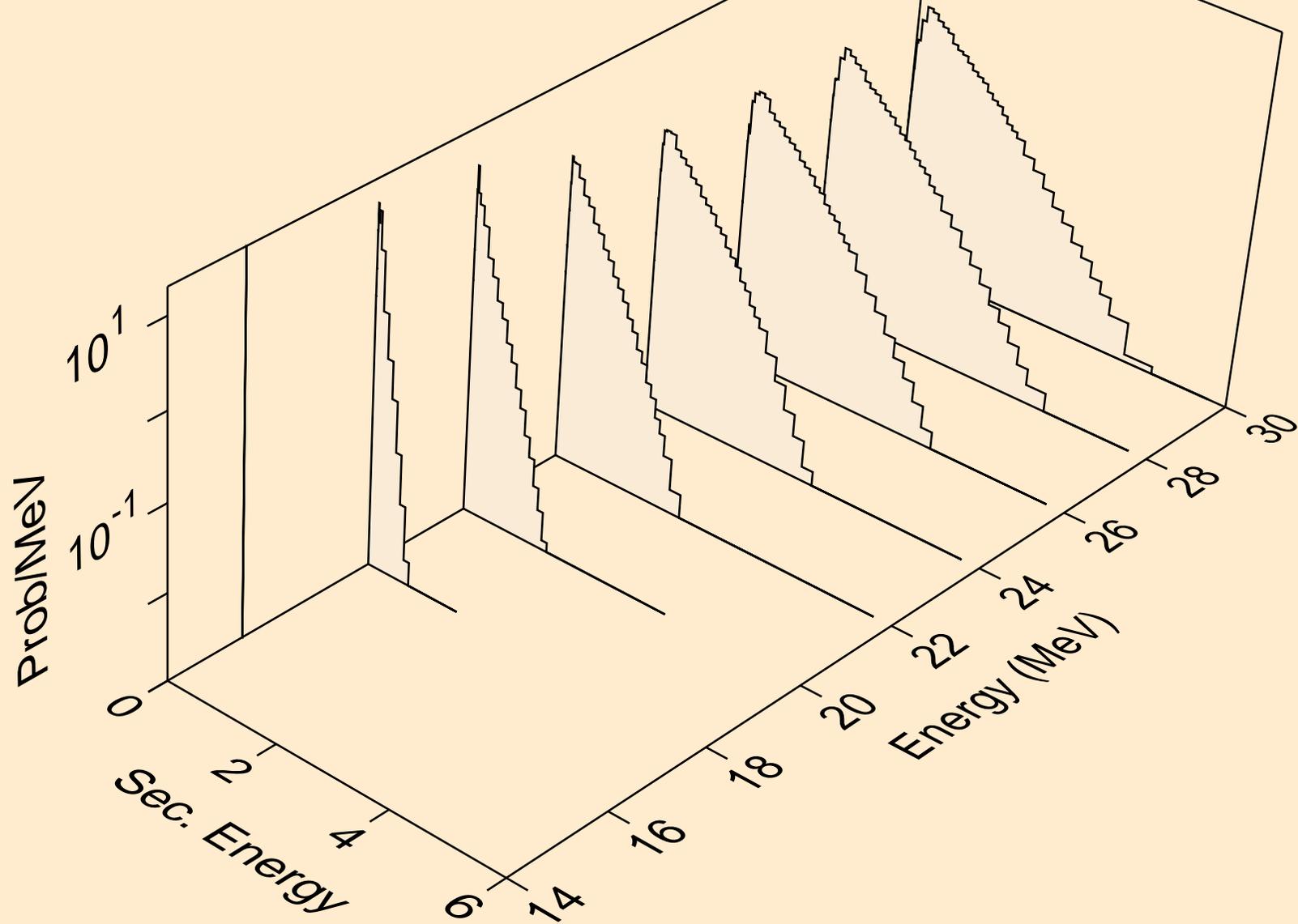neutrons from (a,2n)a

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
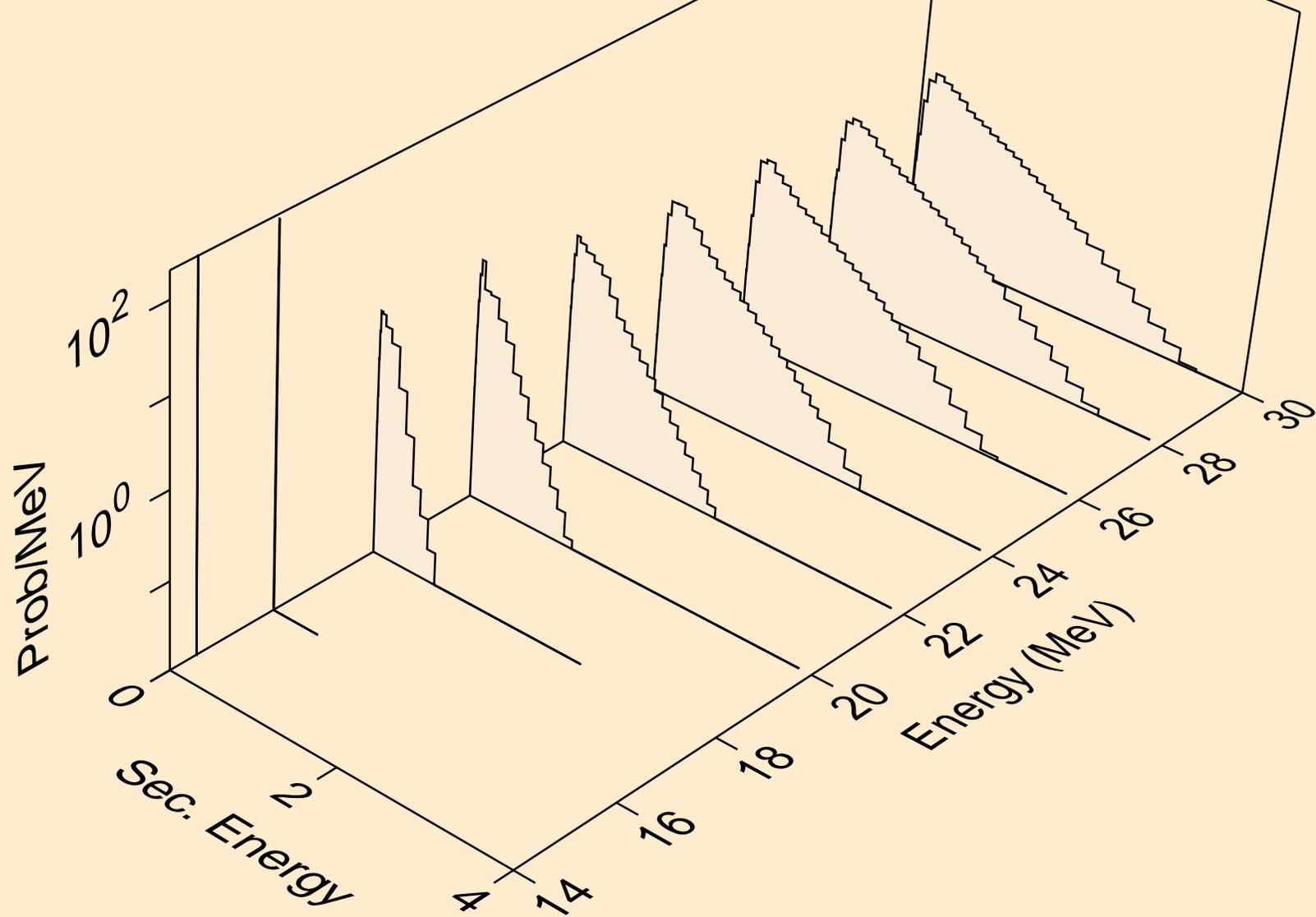neutrons from (a,3n)a

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (a,n*)p

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (a,n*)d

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (a,n*)t

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (a,n*)he3
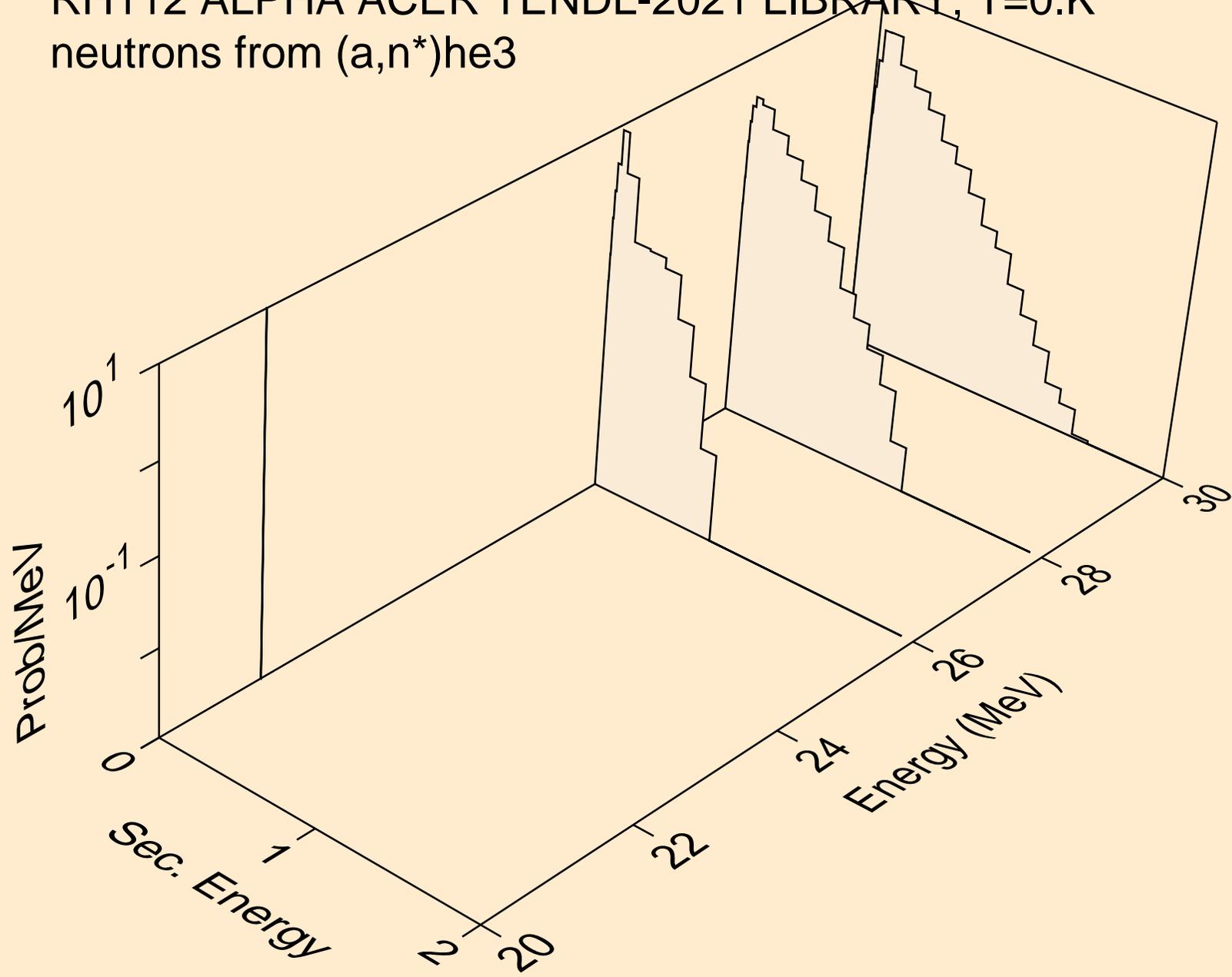
RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (a,4n)
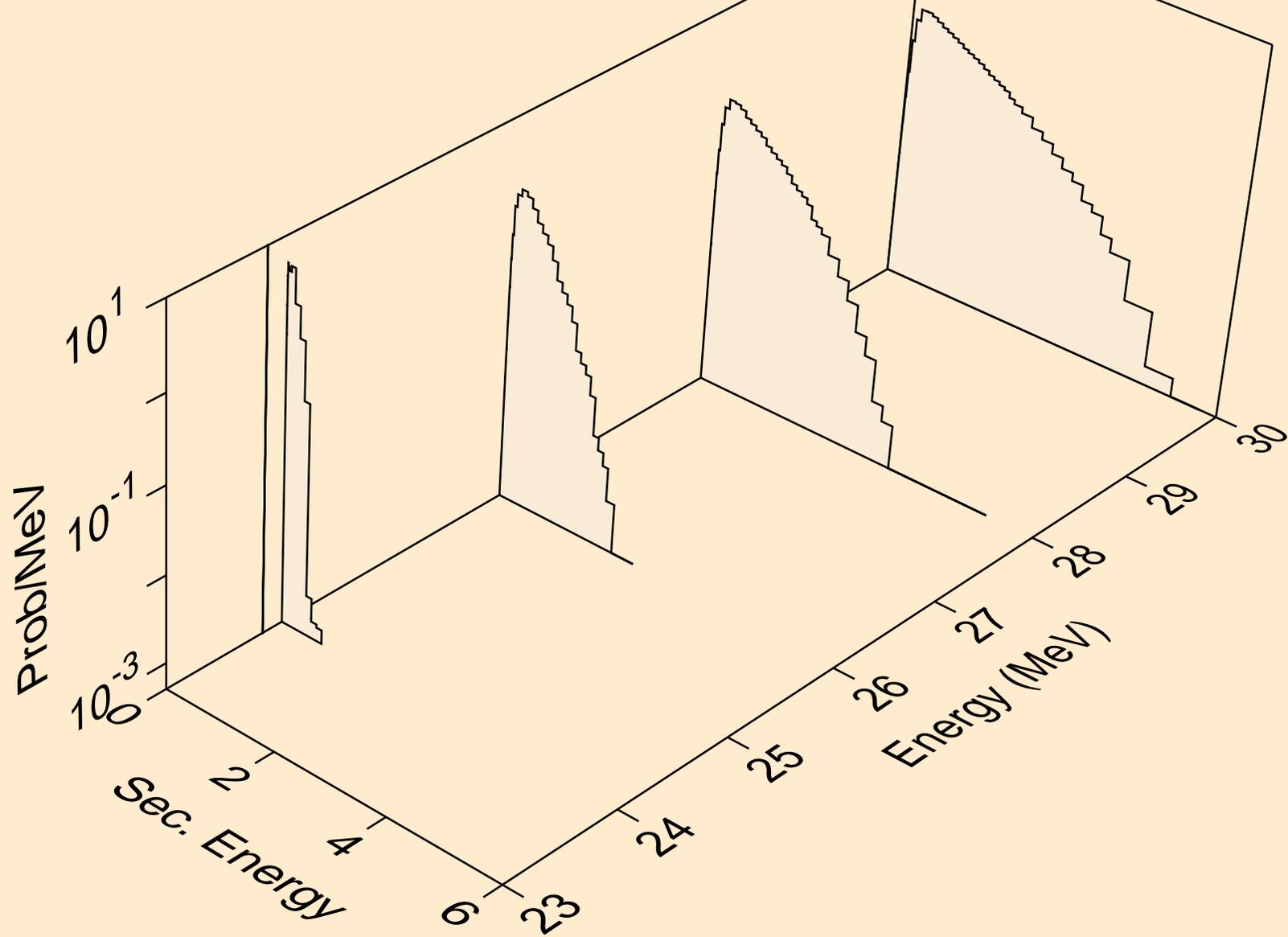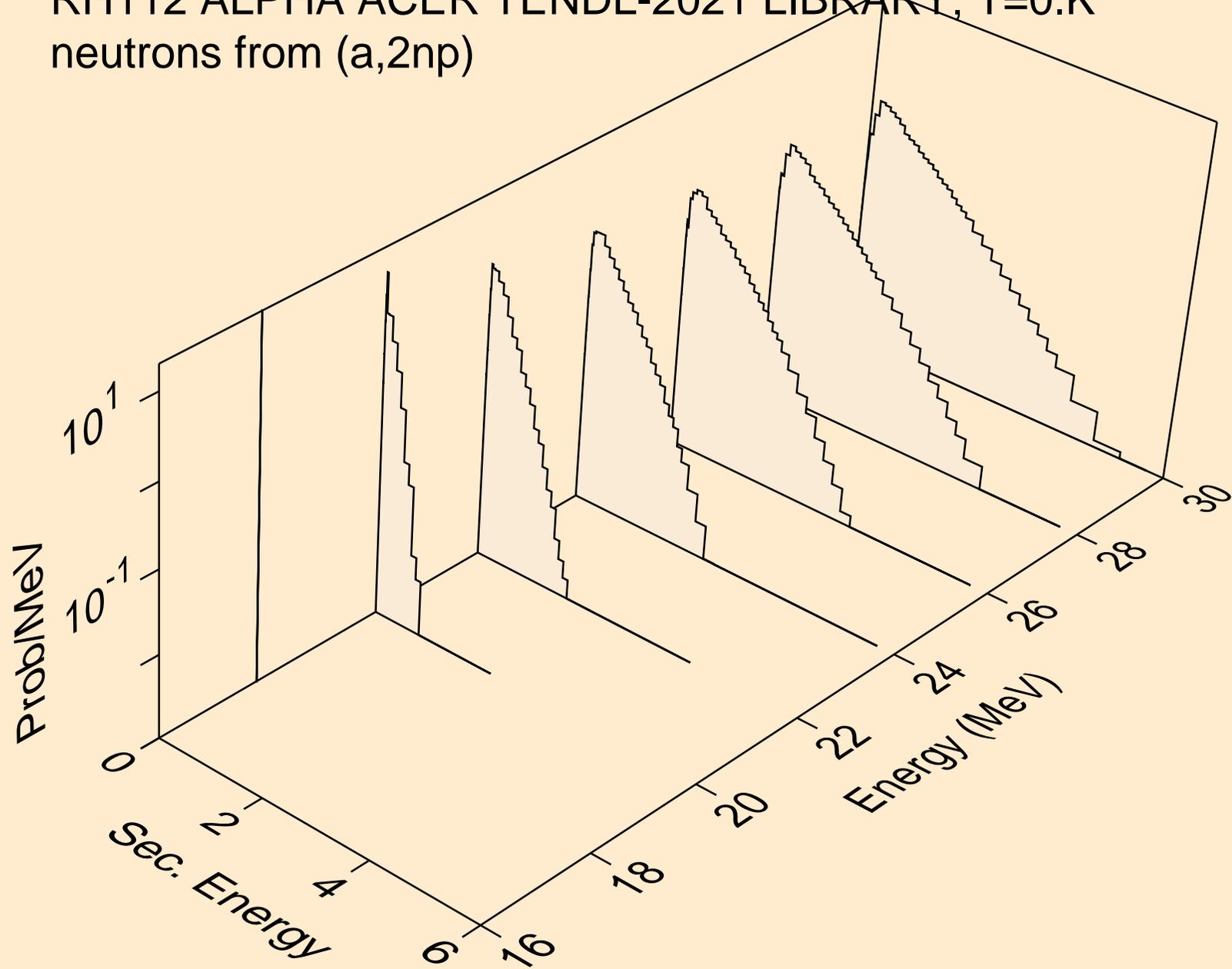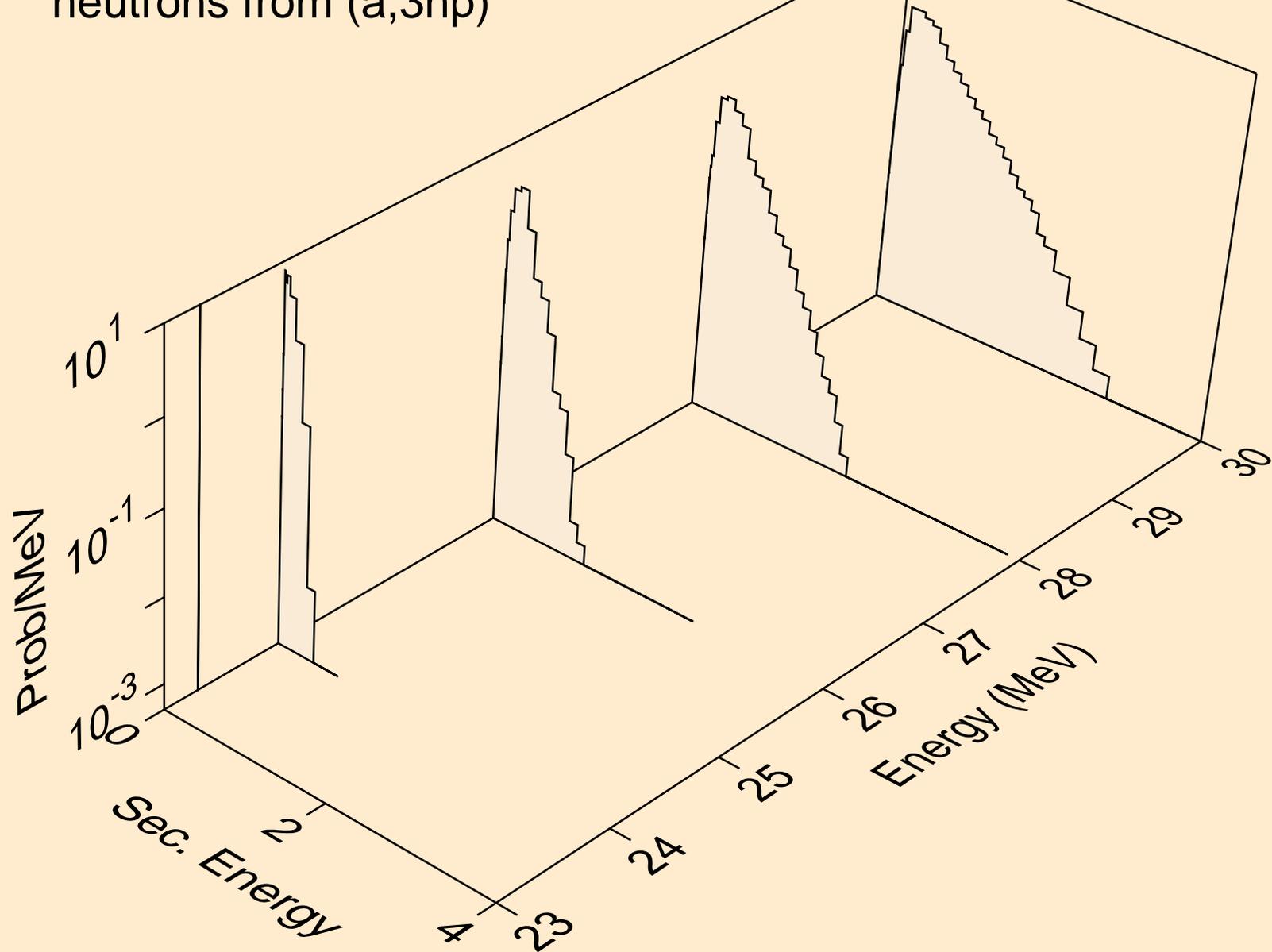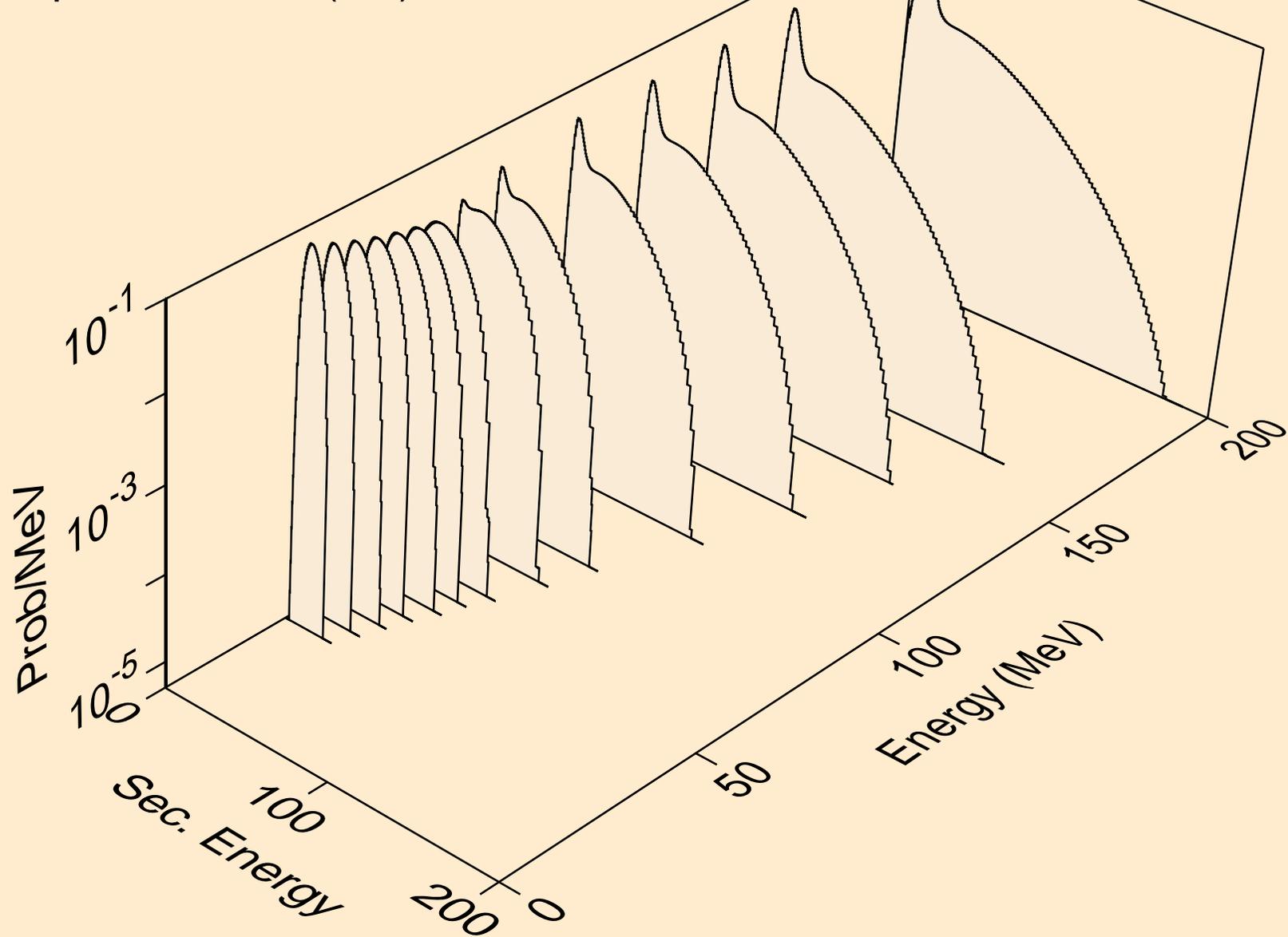
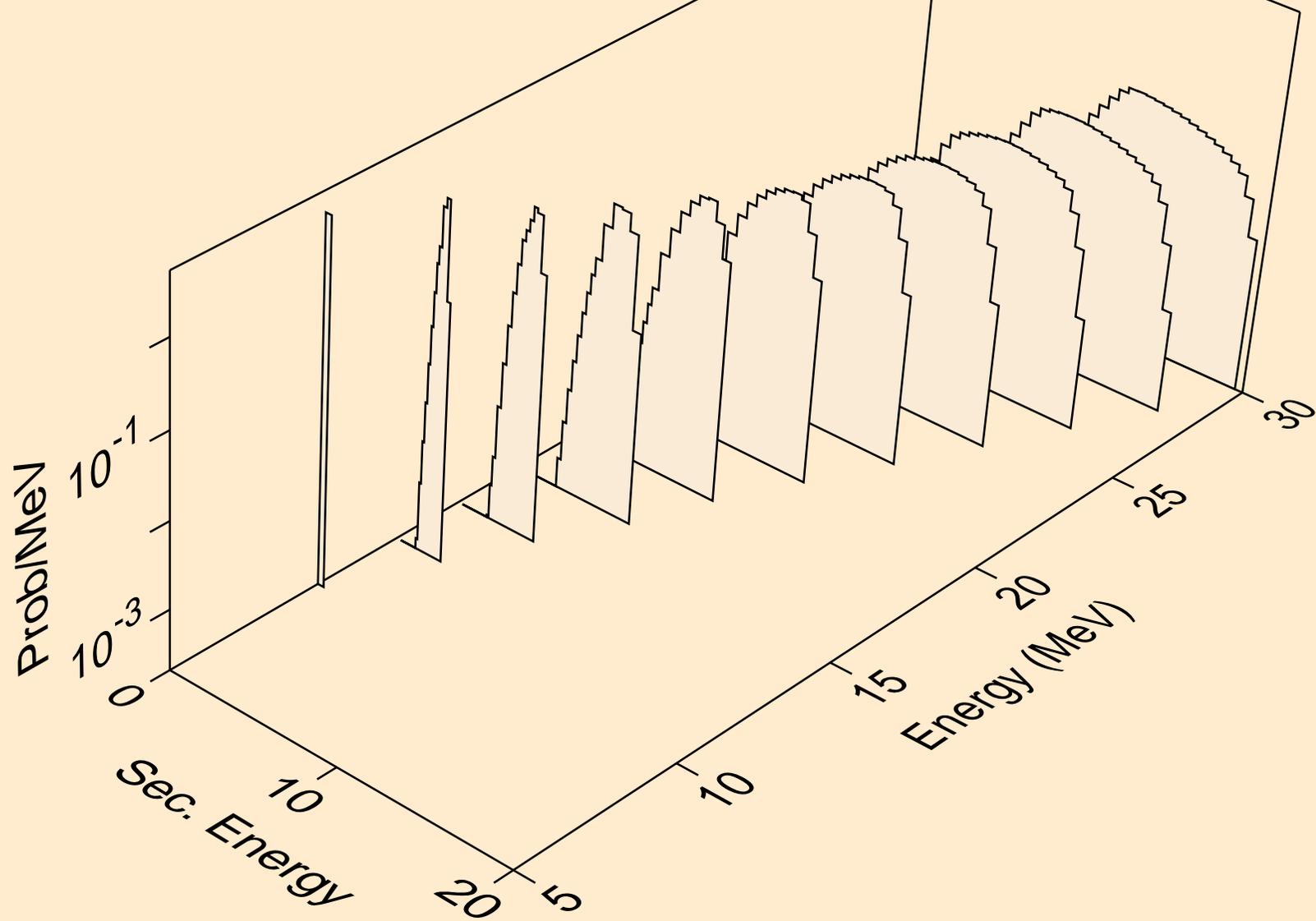RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (a,2np)

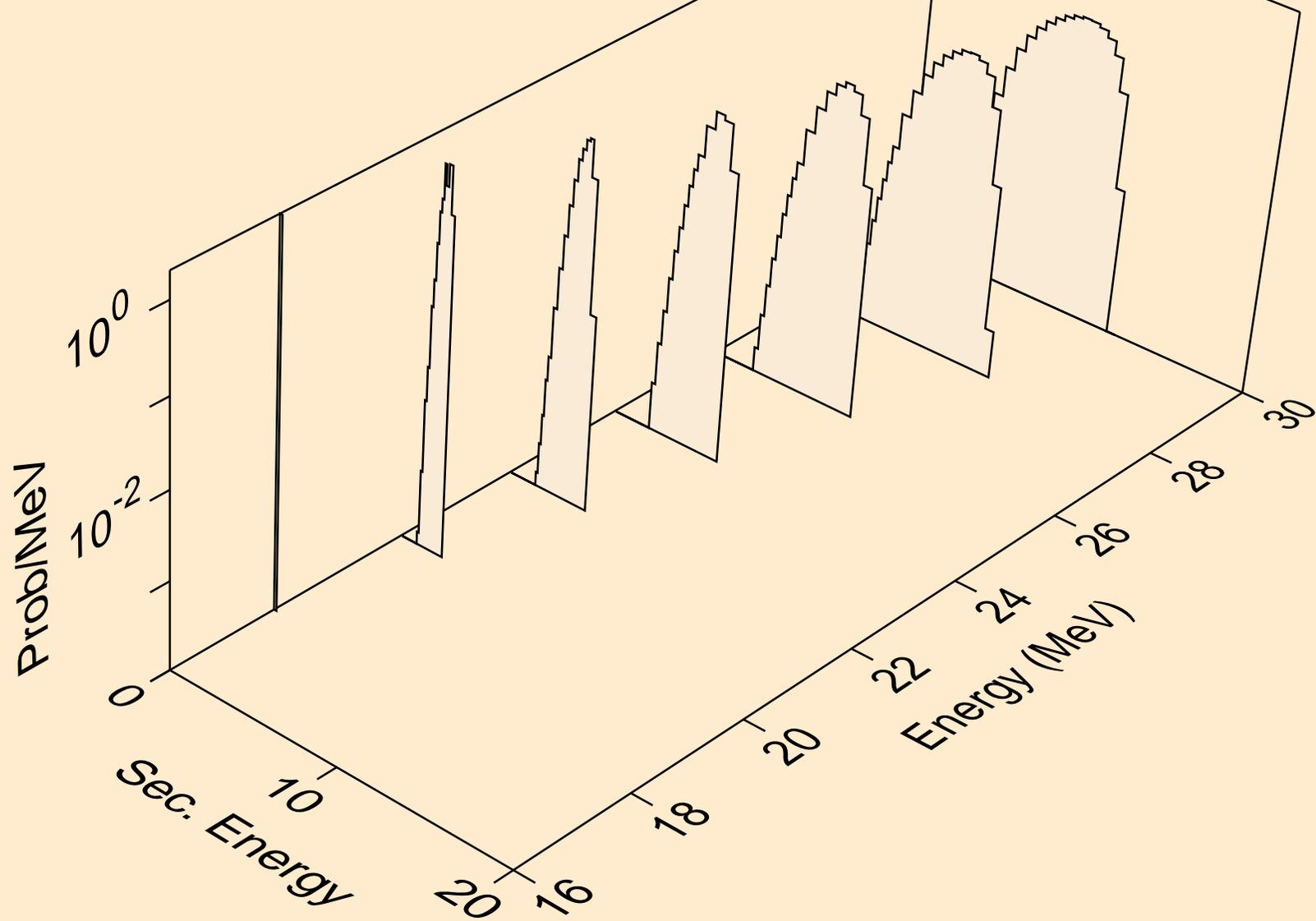RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (a,3np)

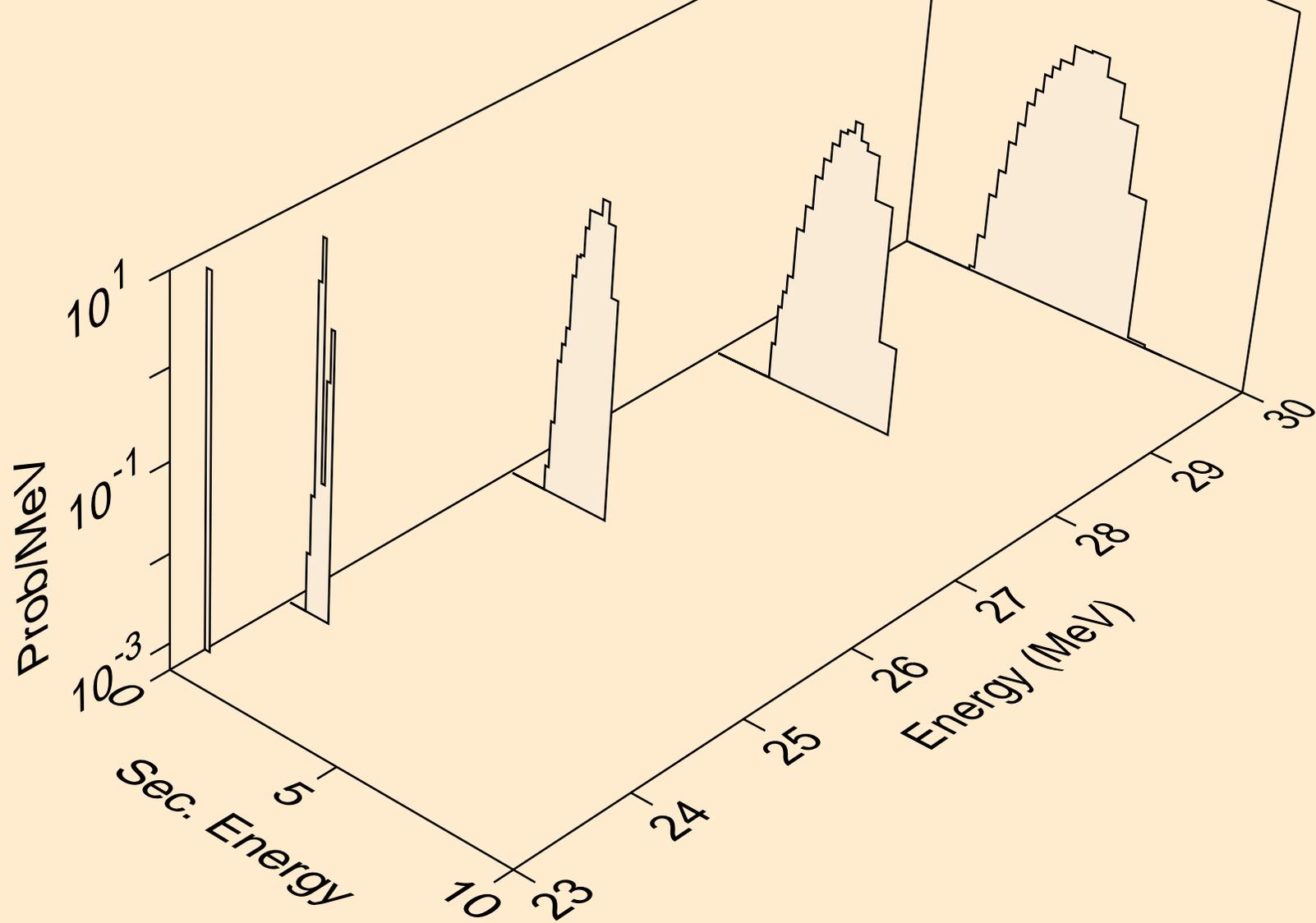RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
protons from (a,x)

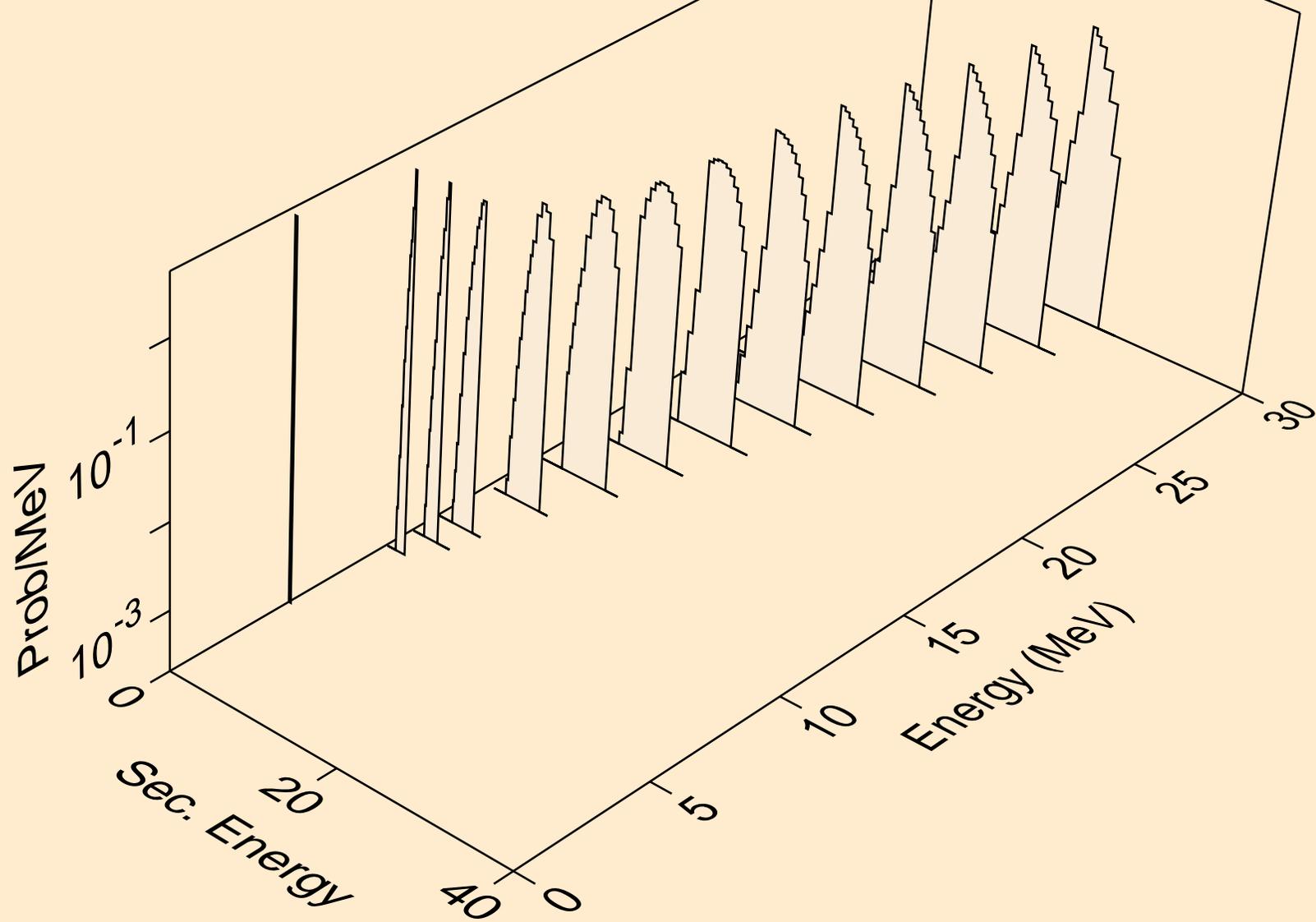RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
protons from (a,n*)p

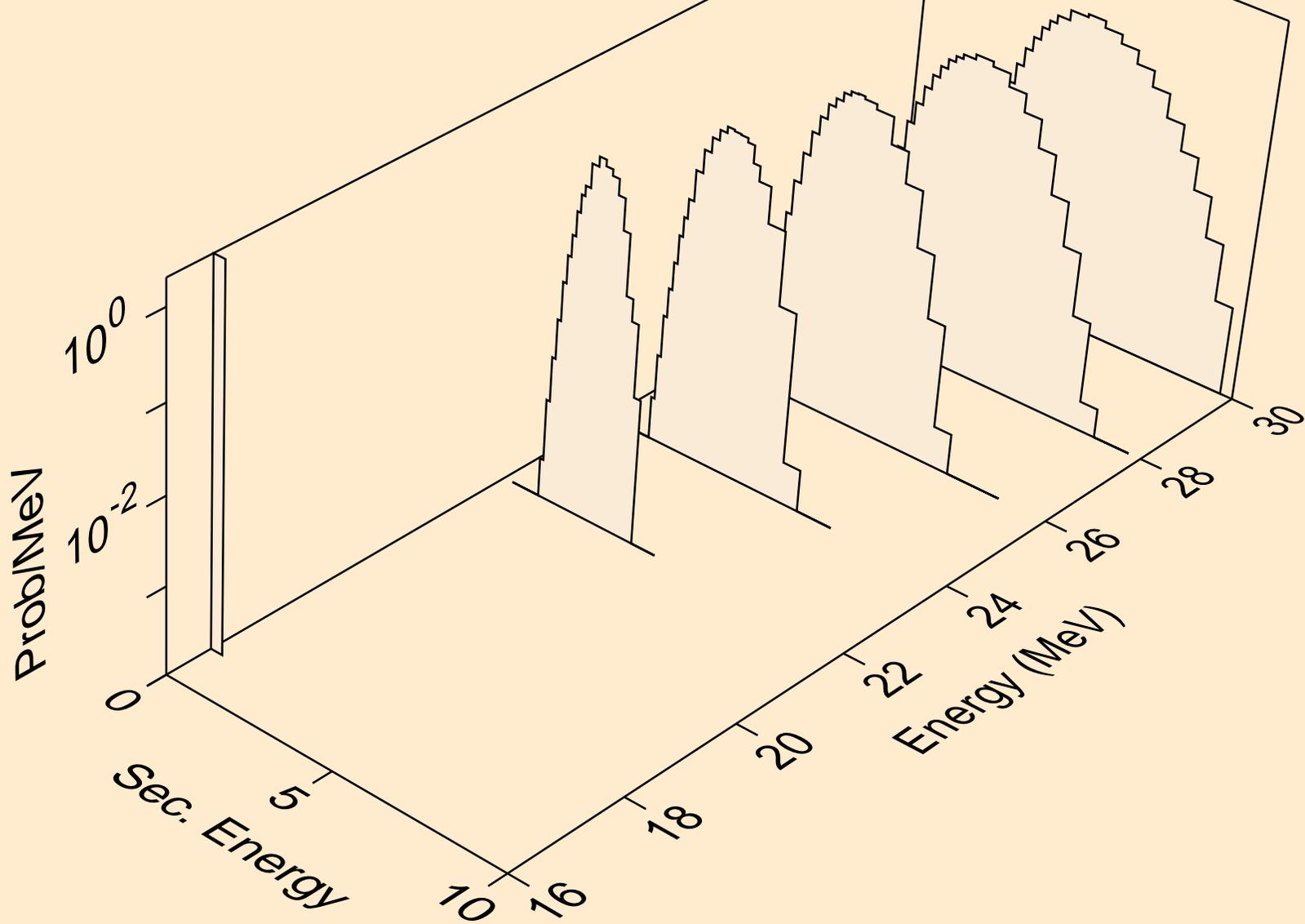RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
protons from (a,2np)

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
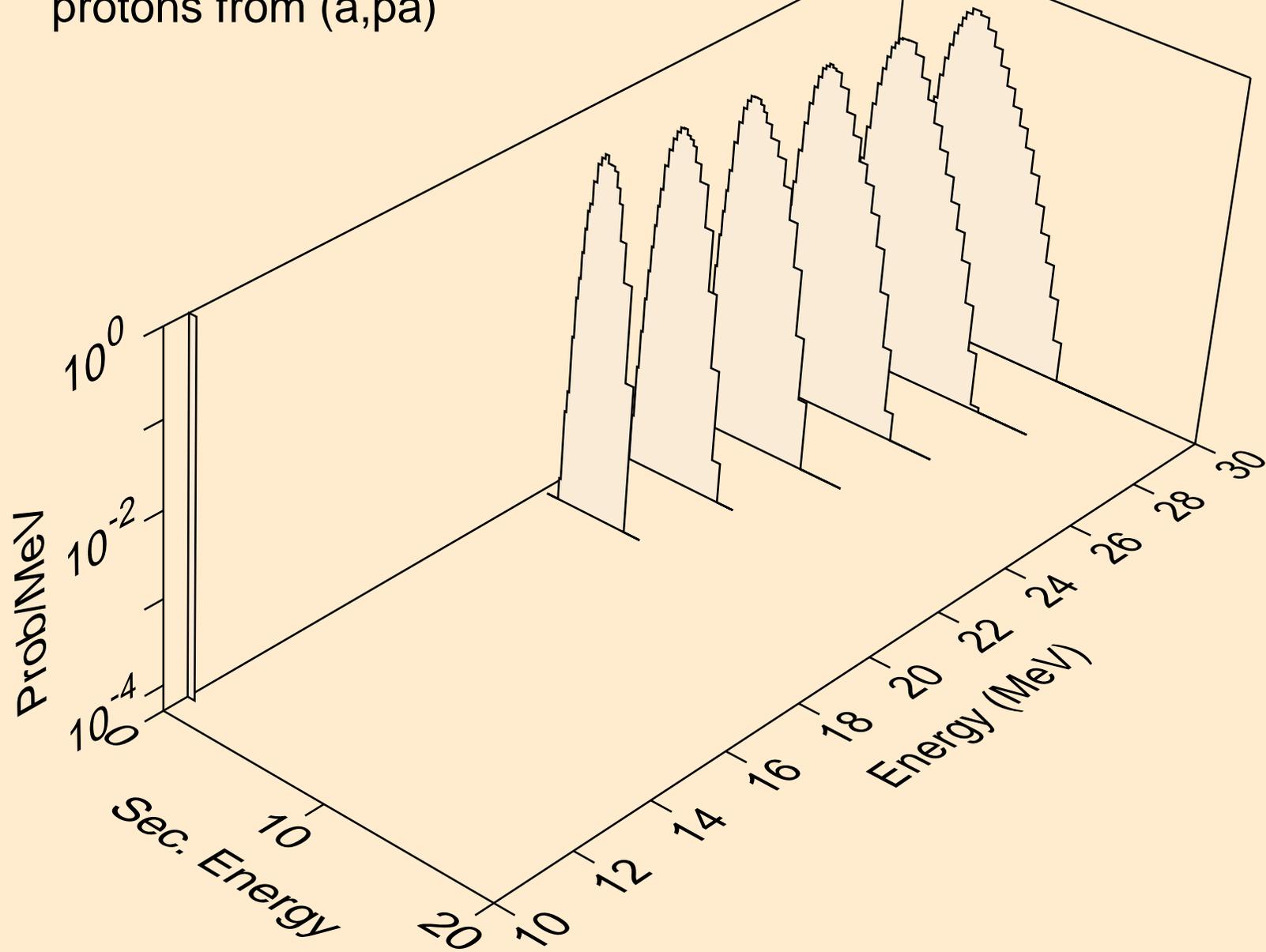protons from (a,3np)

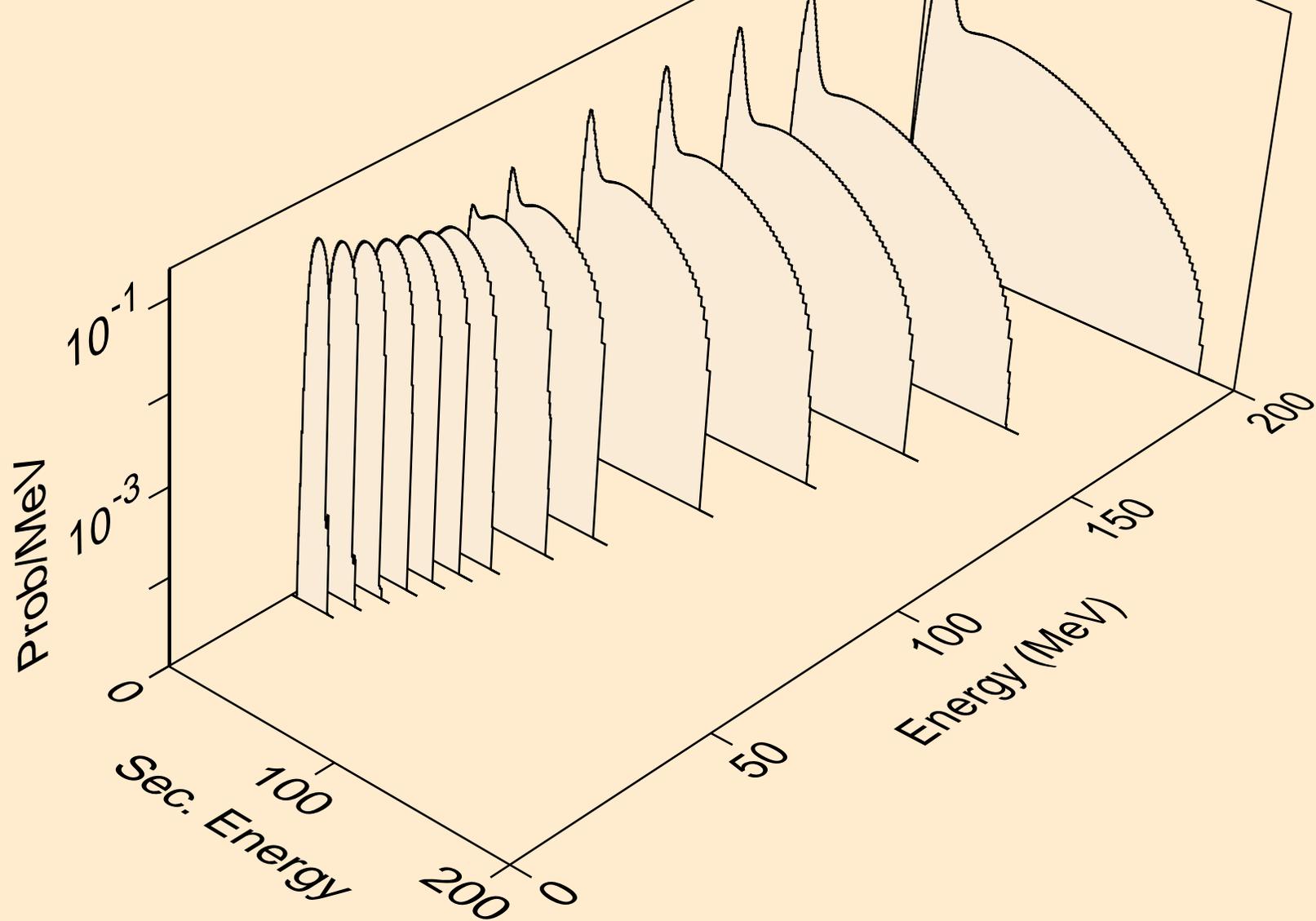RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
protons from (a,p)

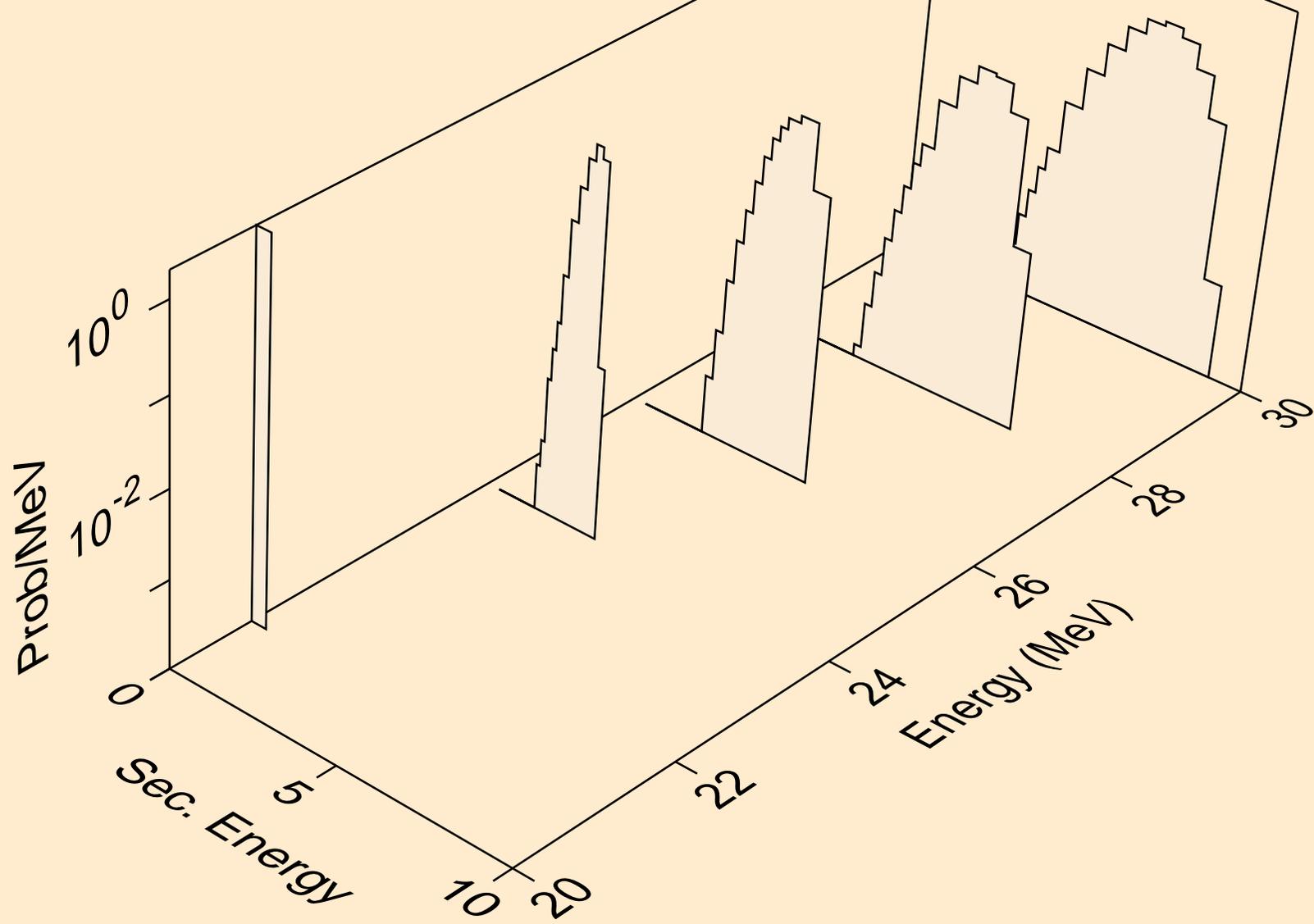RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
protons from (a,2p)

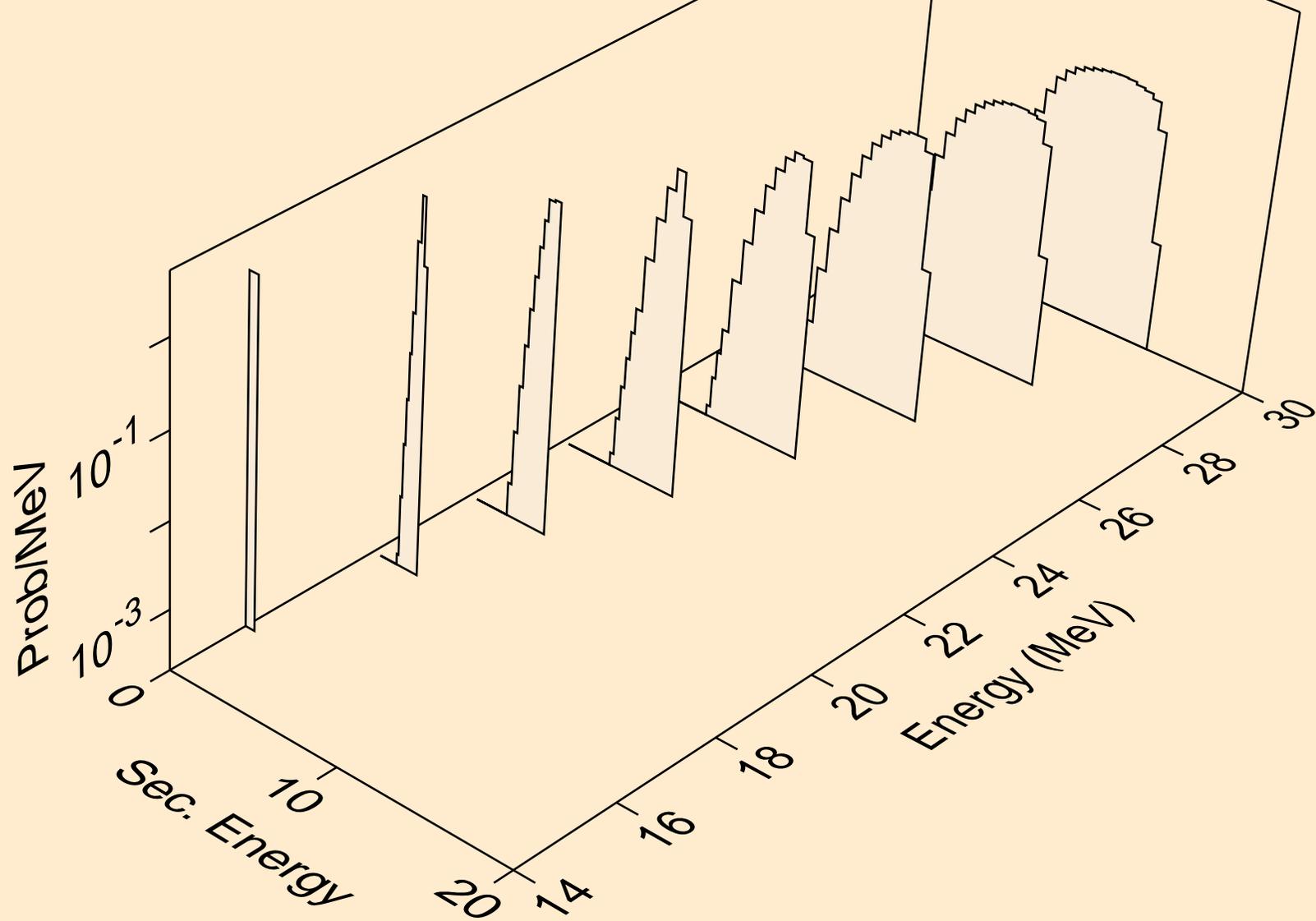RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
protons from (a,pa)

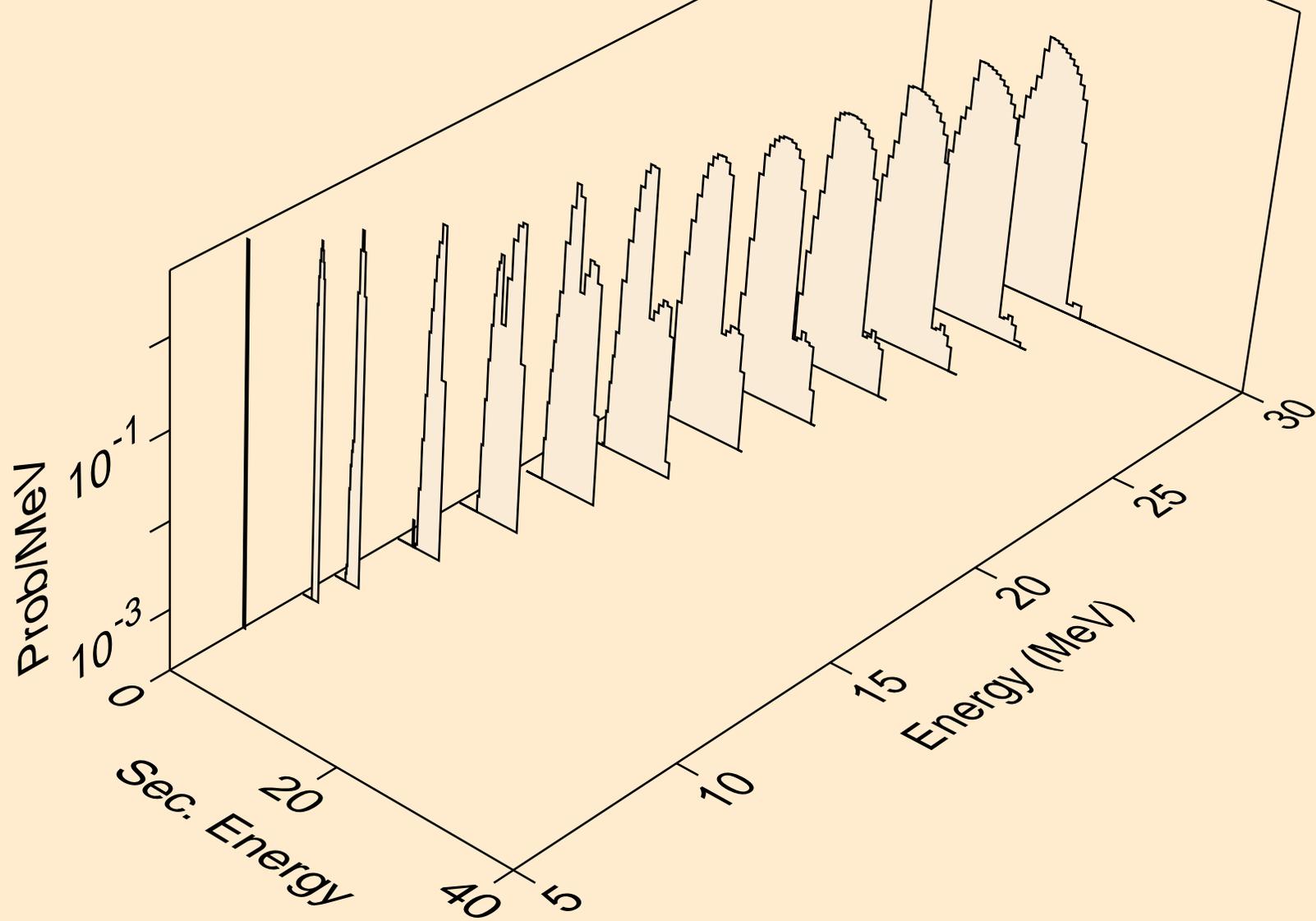RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
deuterons from (a,x)

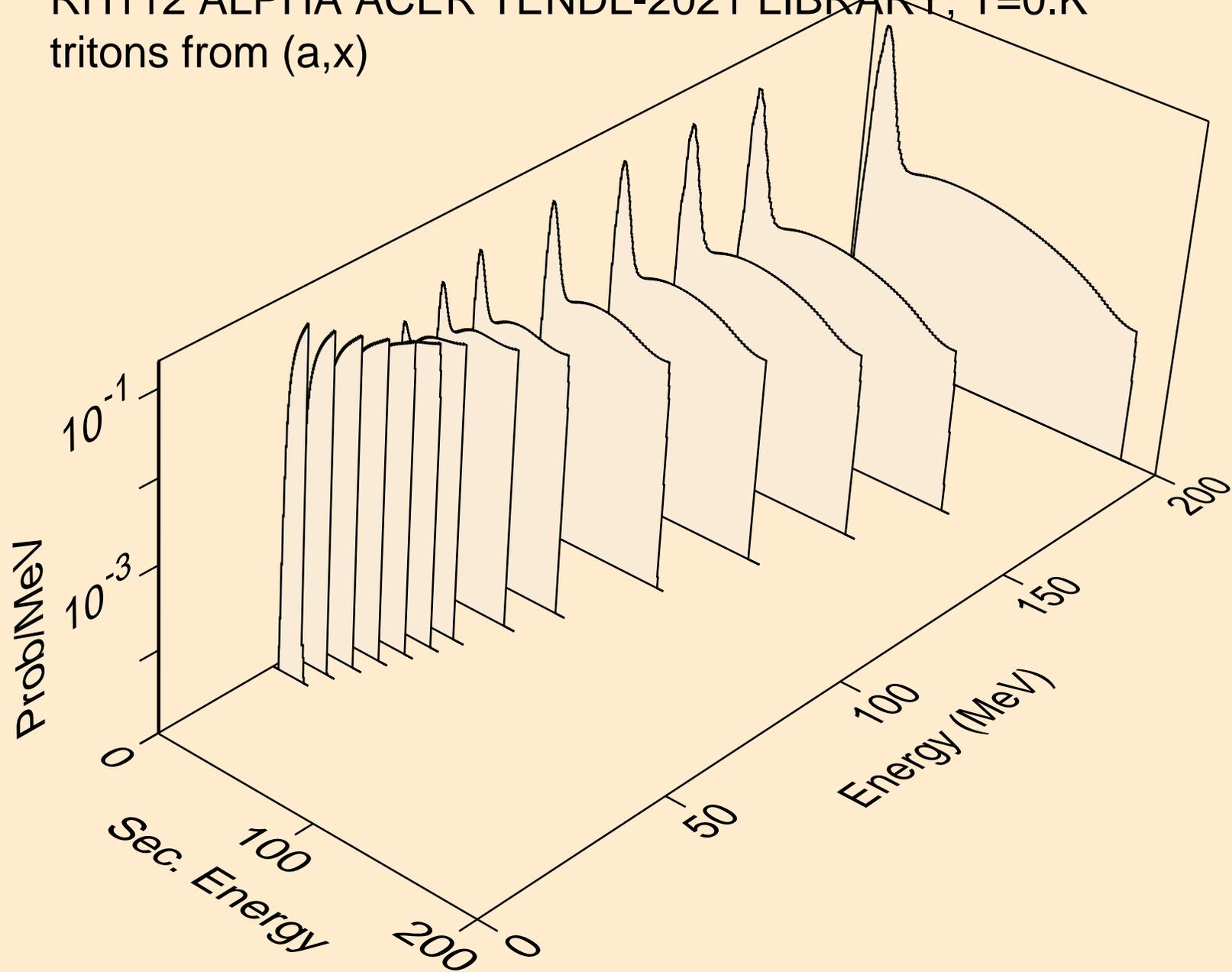RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
deuterons from (a,2nd)

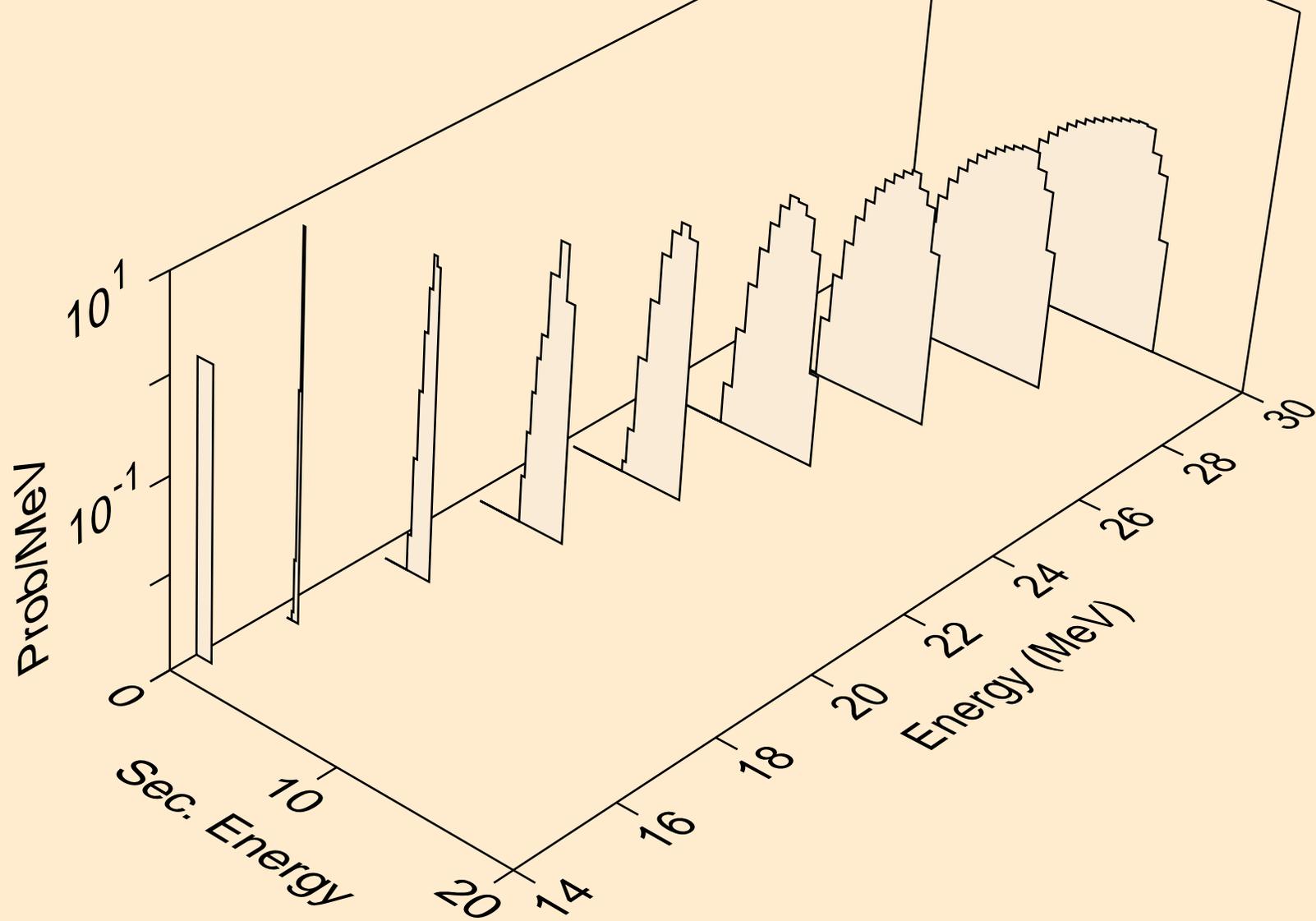RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
deuterons from (a,n*)d

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
deuterons from (a,d)

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
tritons from (a,x)

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
tritons from (a,n*)t

Prob/MeV

10^1

10^{-1}

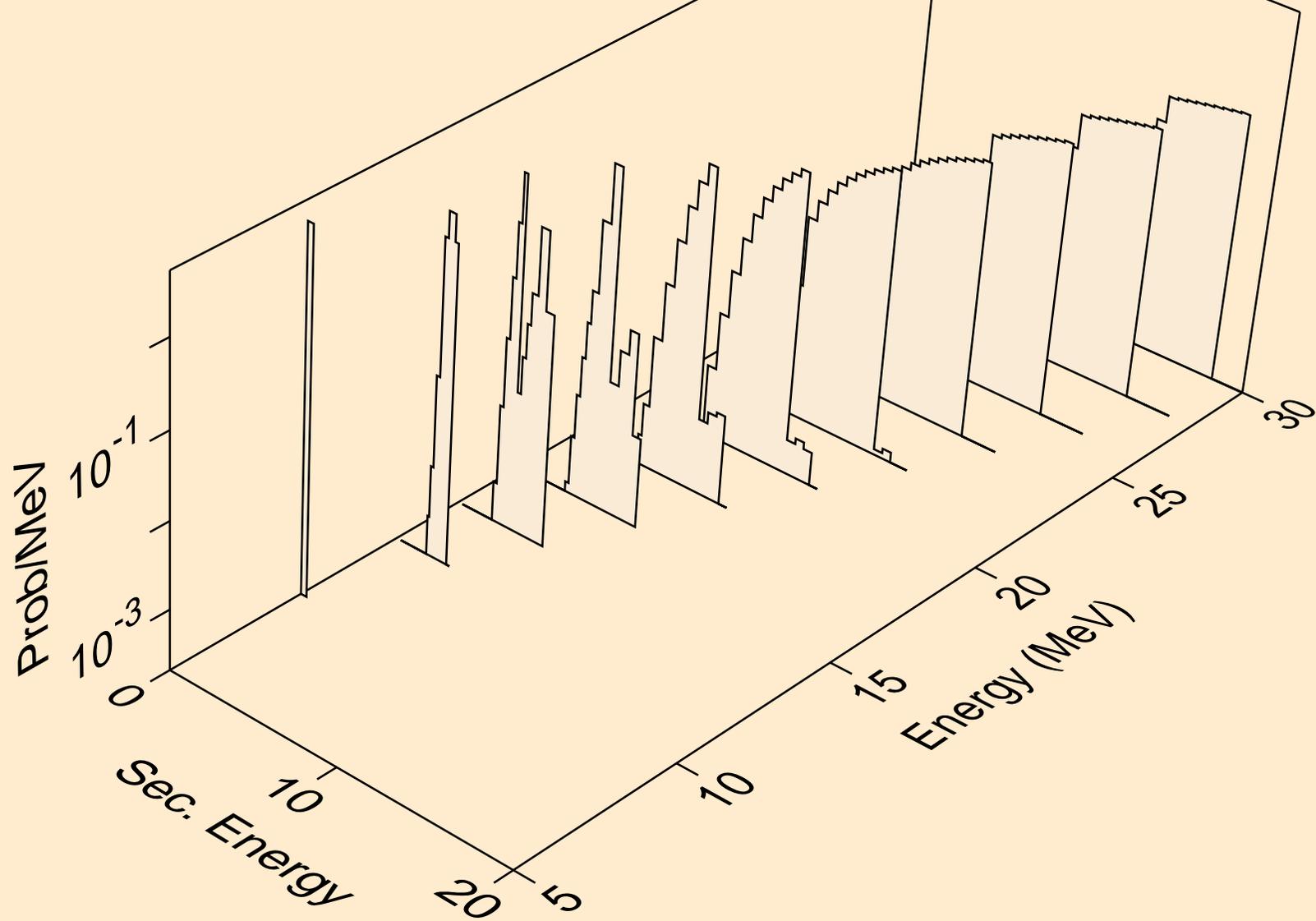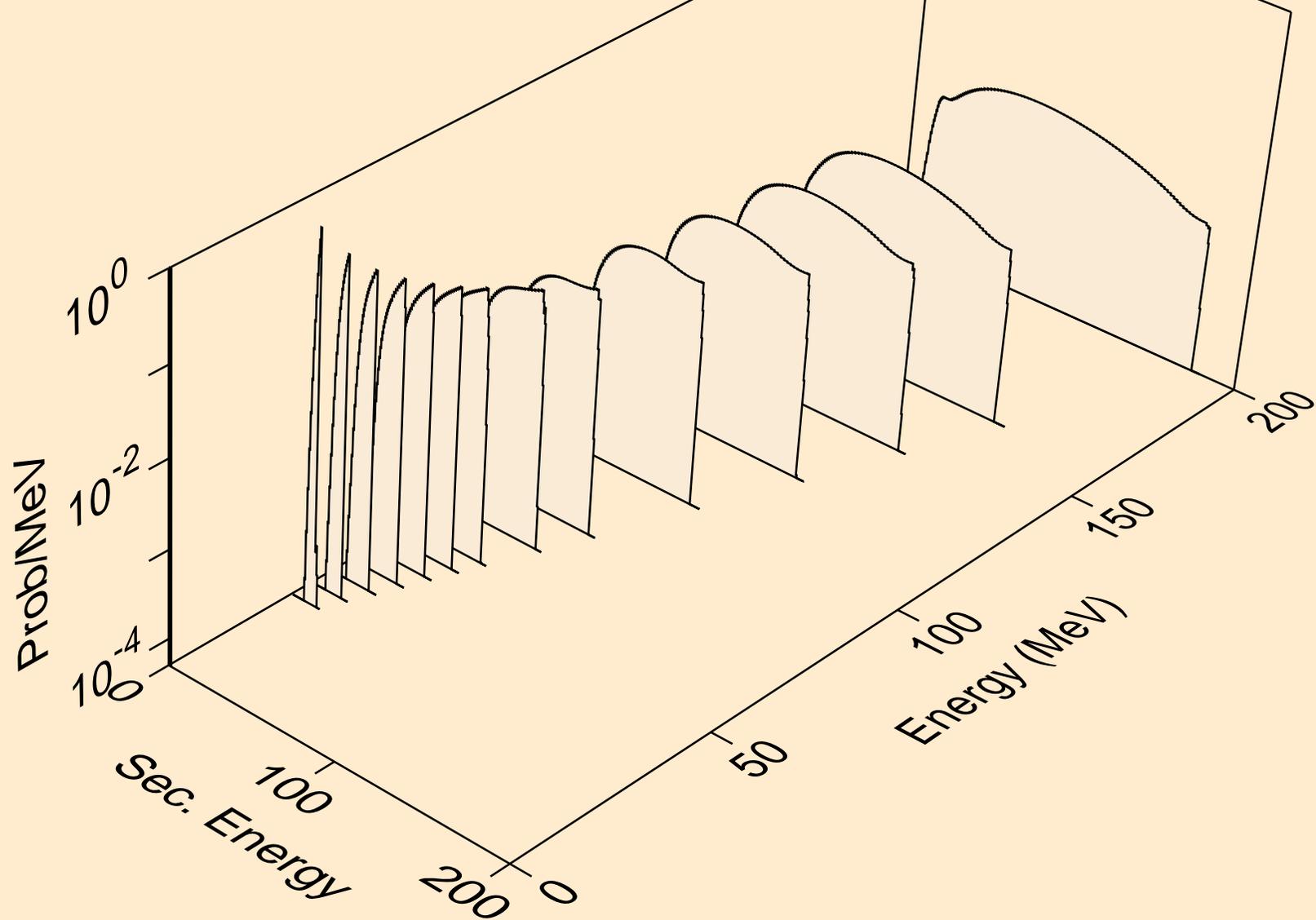Sec. Energy

0

10

20

Energy (MeV)
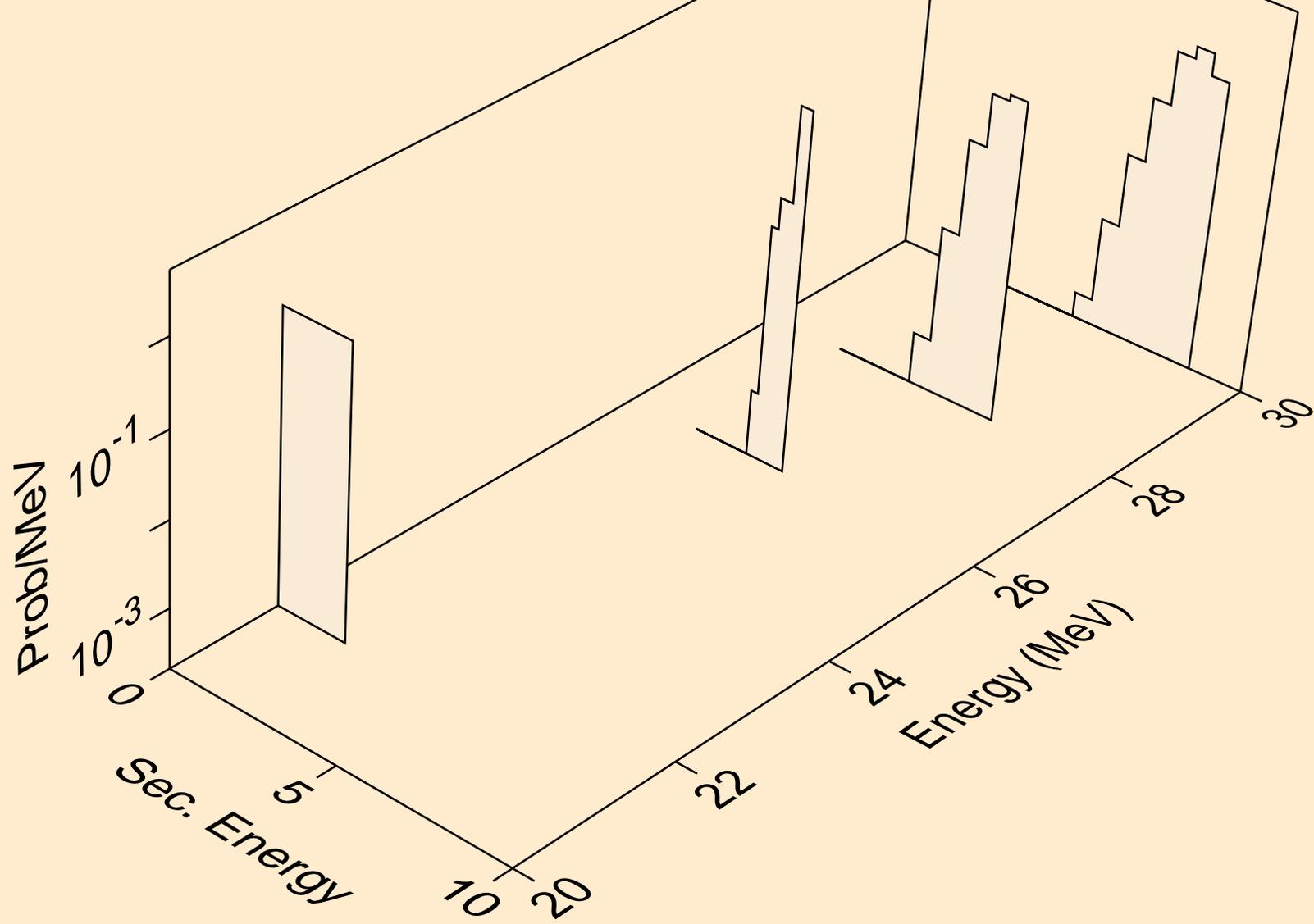
14 16 18 20 22 24 26 28 30

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
tritons from (a,t)

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
he3s from (a,x)

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
he3s from (a,n*)he3

Prob/MeV

10^{-1}

10^{-3}

0

Sec. Energy

5

10

20

22

24

26

28

30

Energy (MeV)

RH112 ALPHA ACER TENDL-2021 LIBRARY; T=0.K
he3s from (a,he3)

Prob/MeV

10^0

10^{-2}

0

Sec. Energy

10

20

Energy (MeV)

12 14 16 18 20 22 24 26 28 30