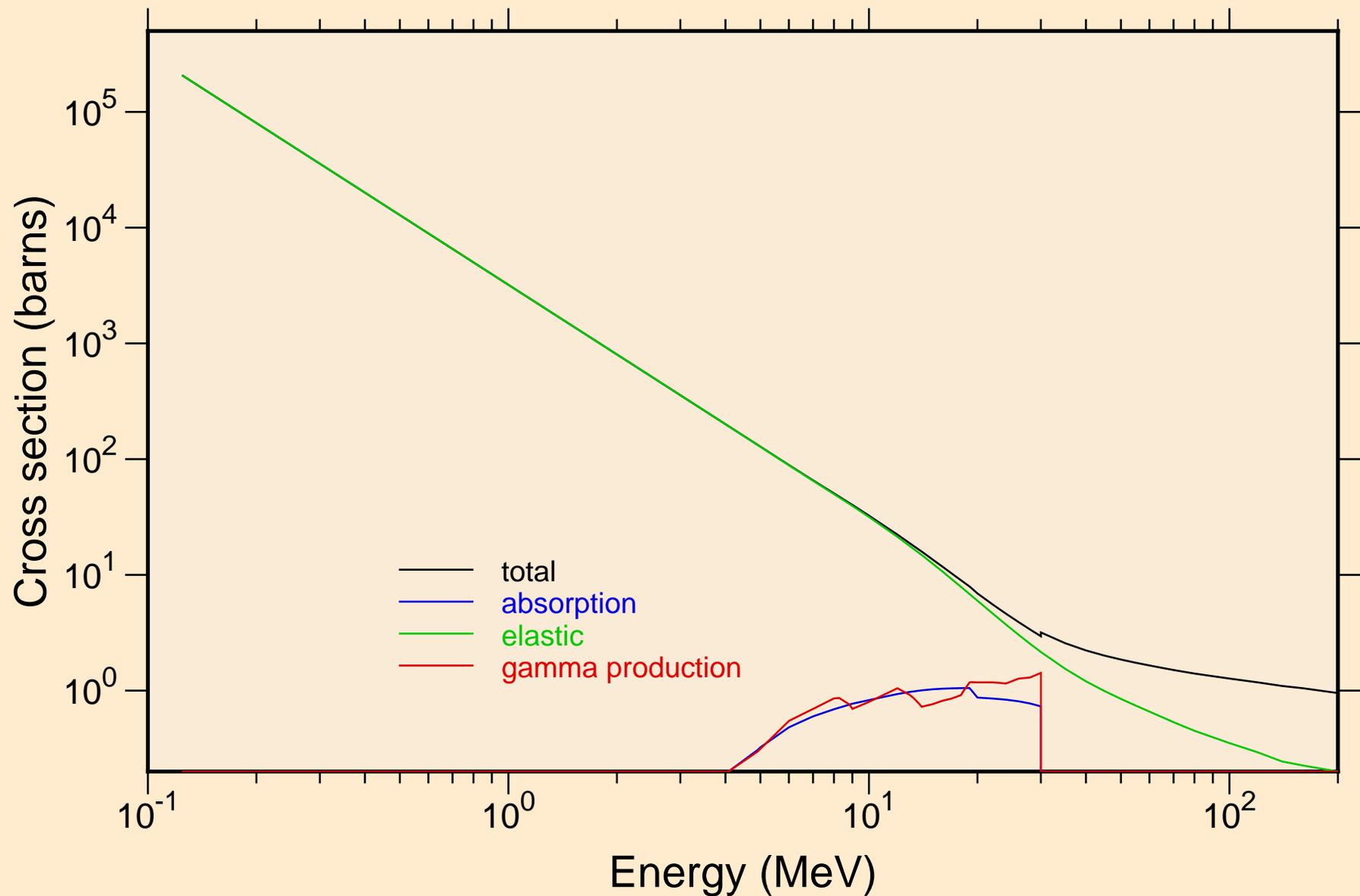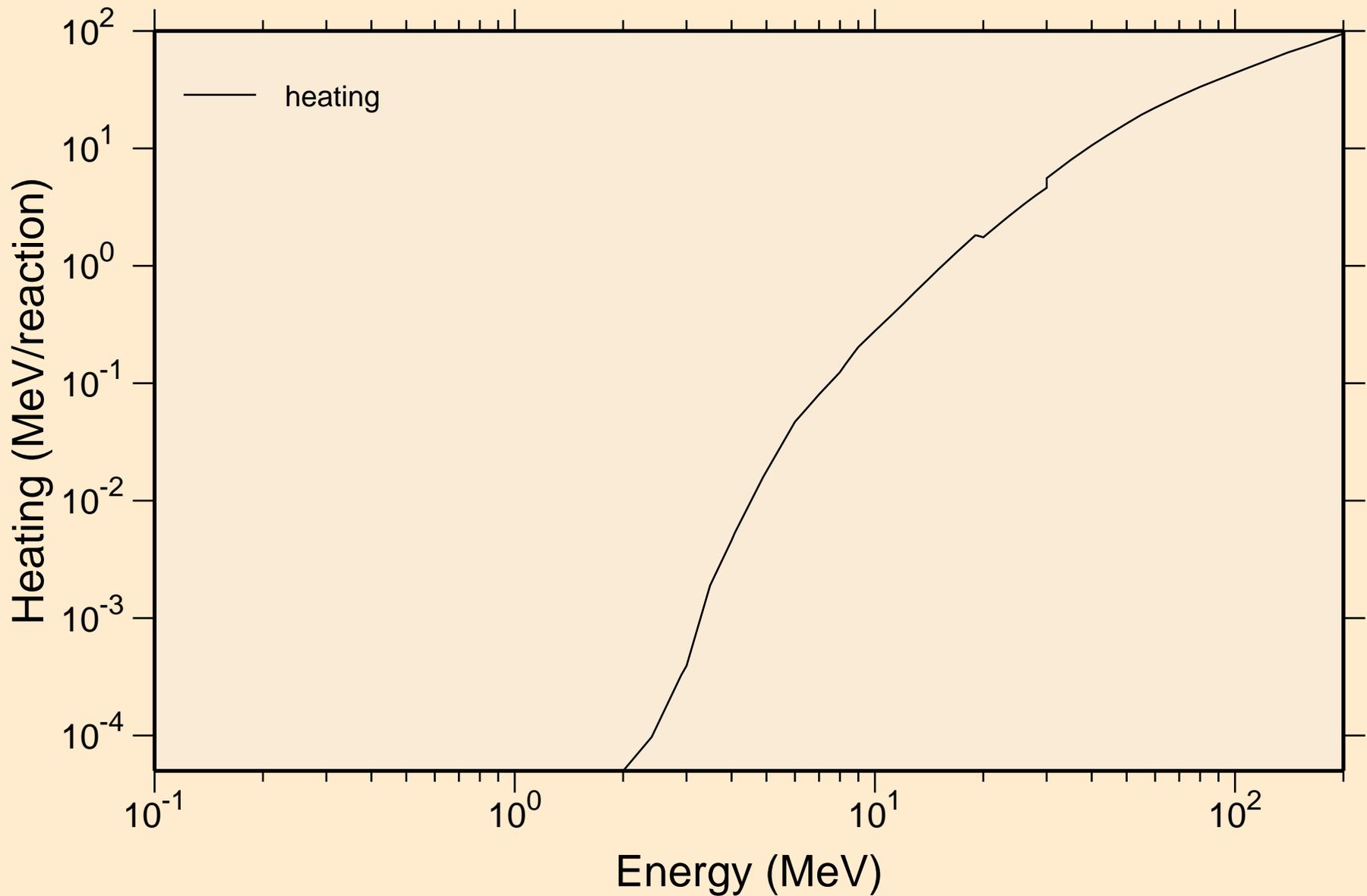NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
Principal cross sections
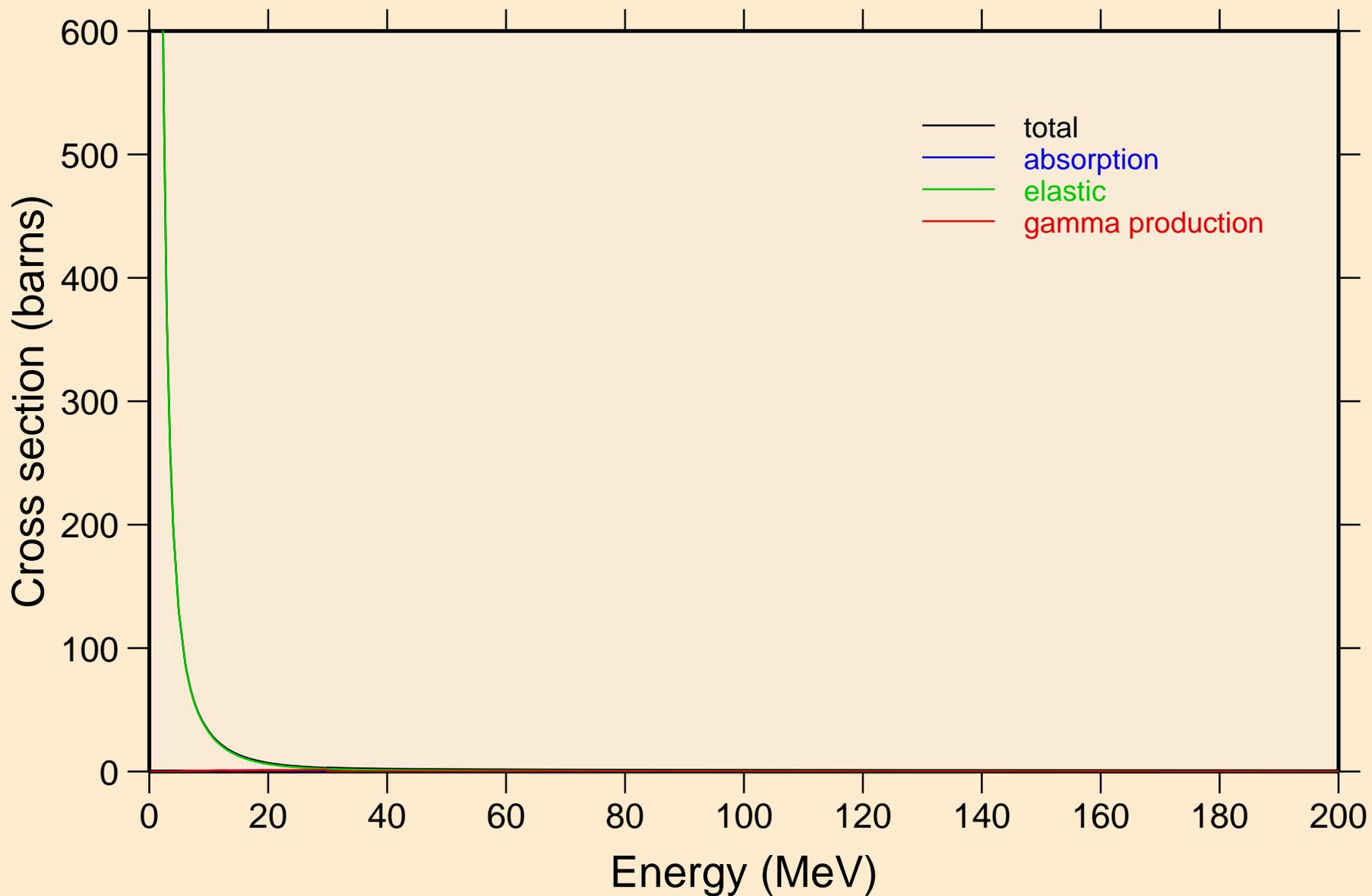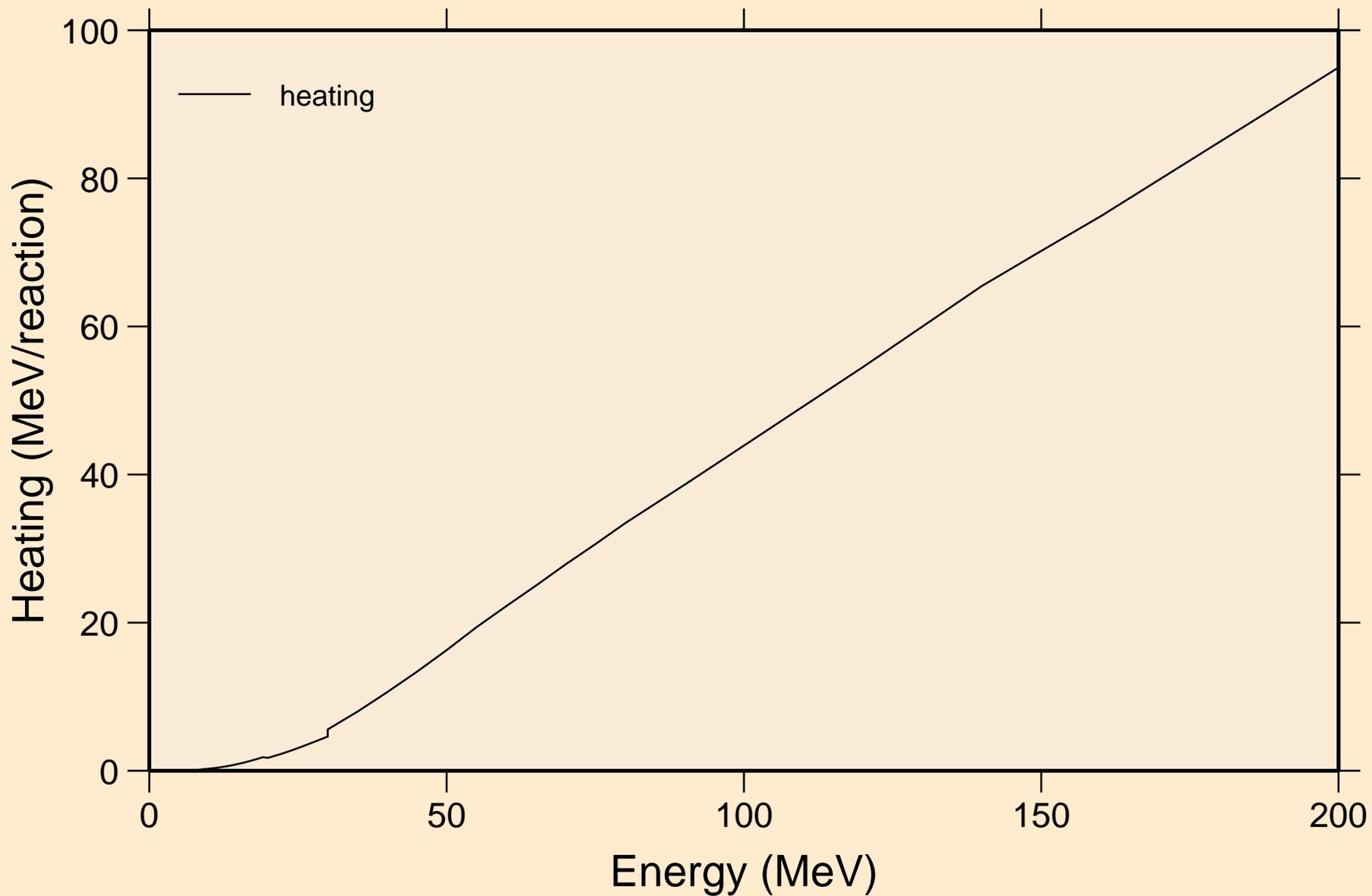
NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
Heating

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
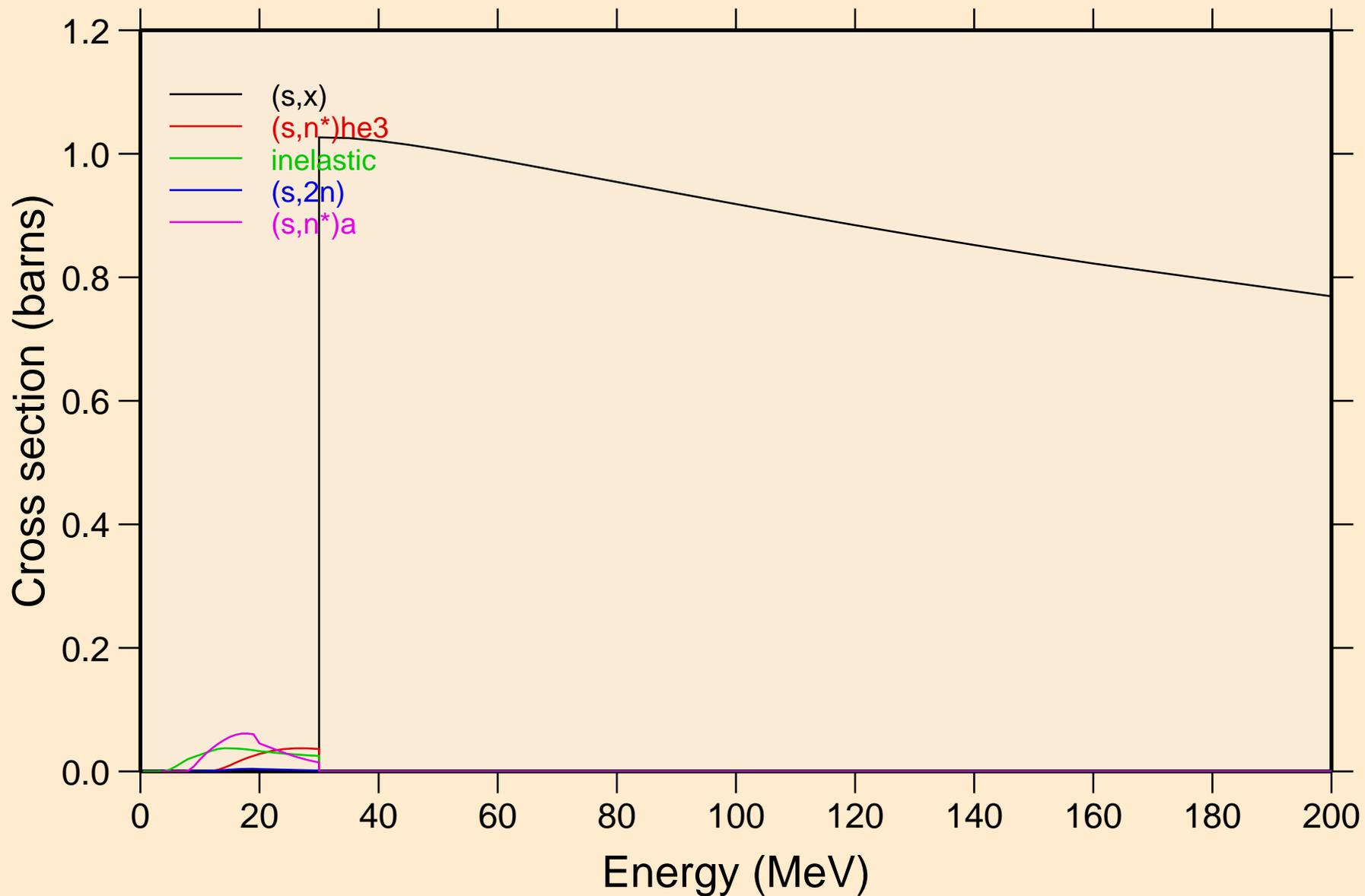Principal cross sections

— total
— absorption
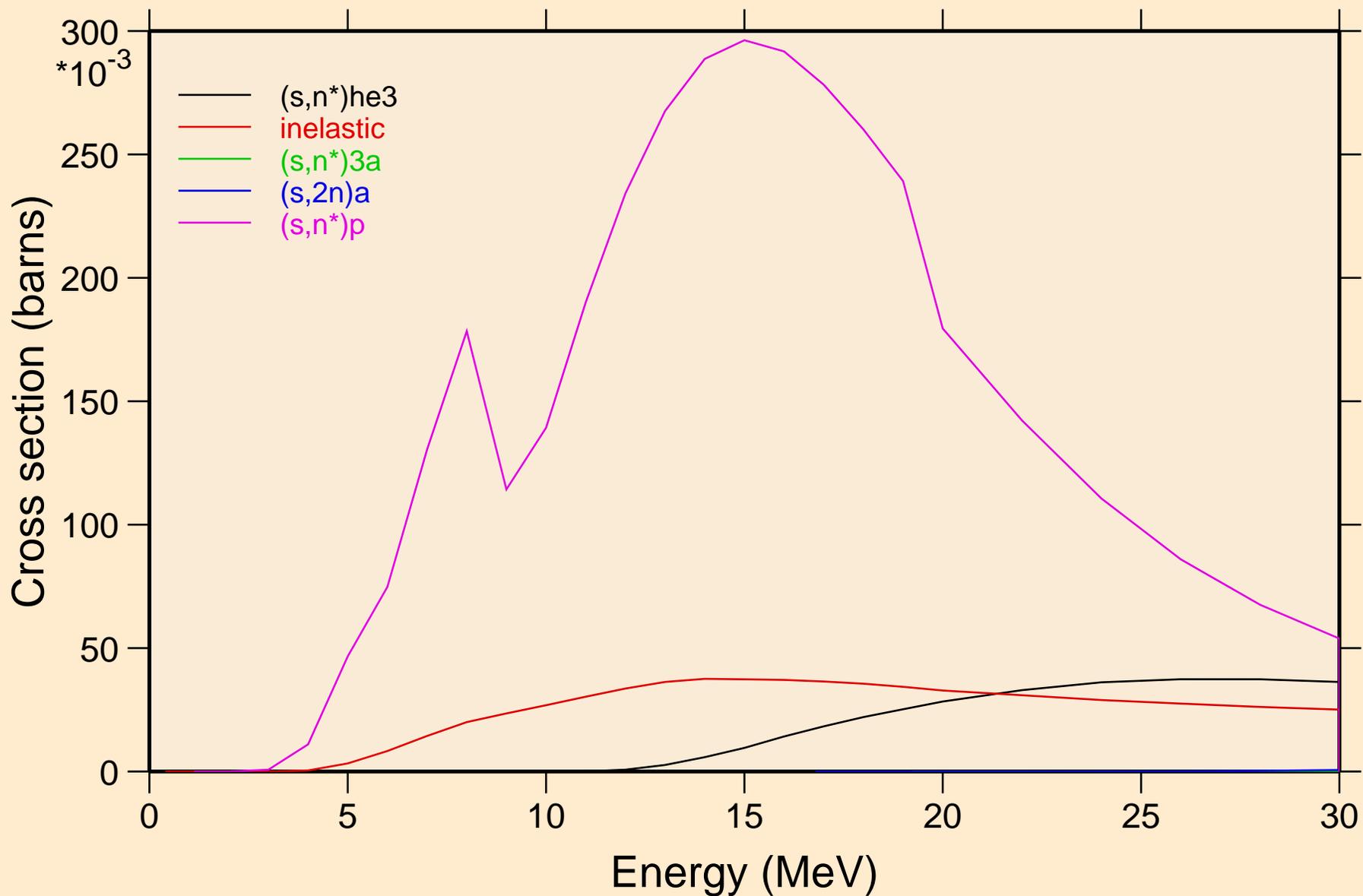— elastic
— gamma production

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
Heating

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
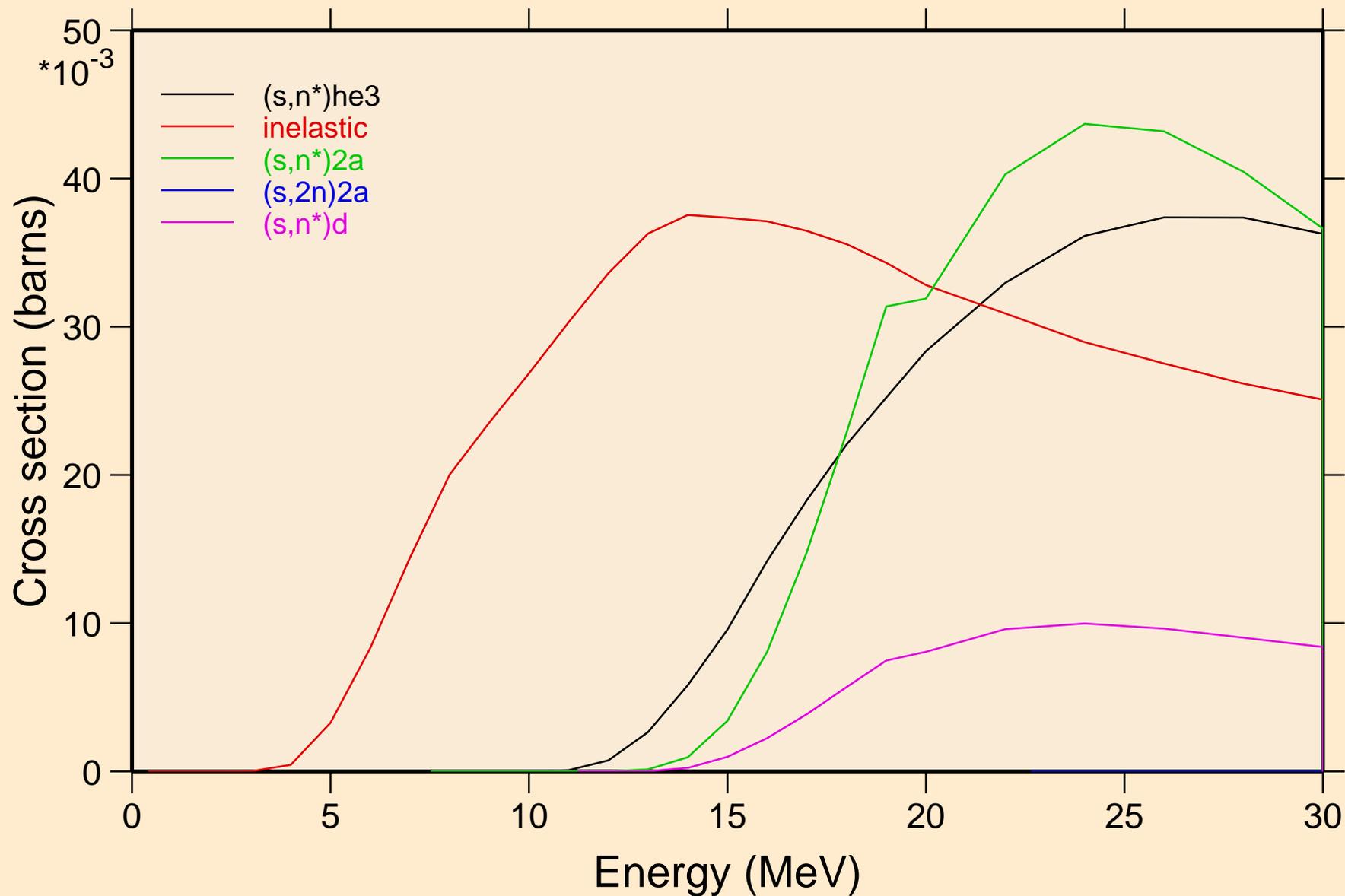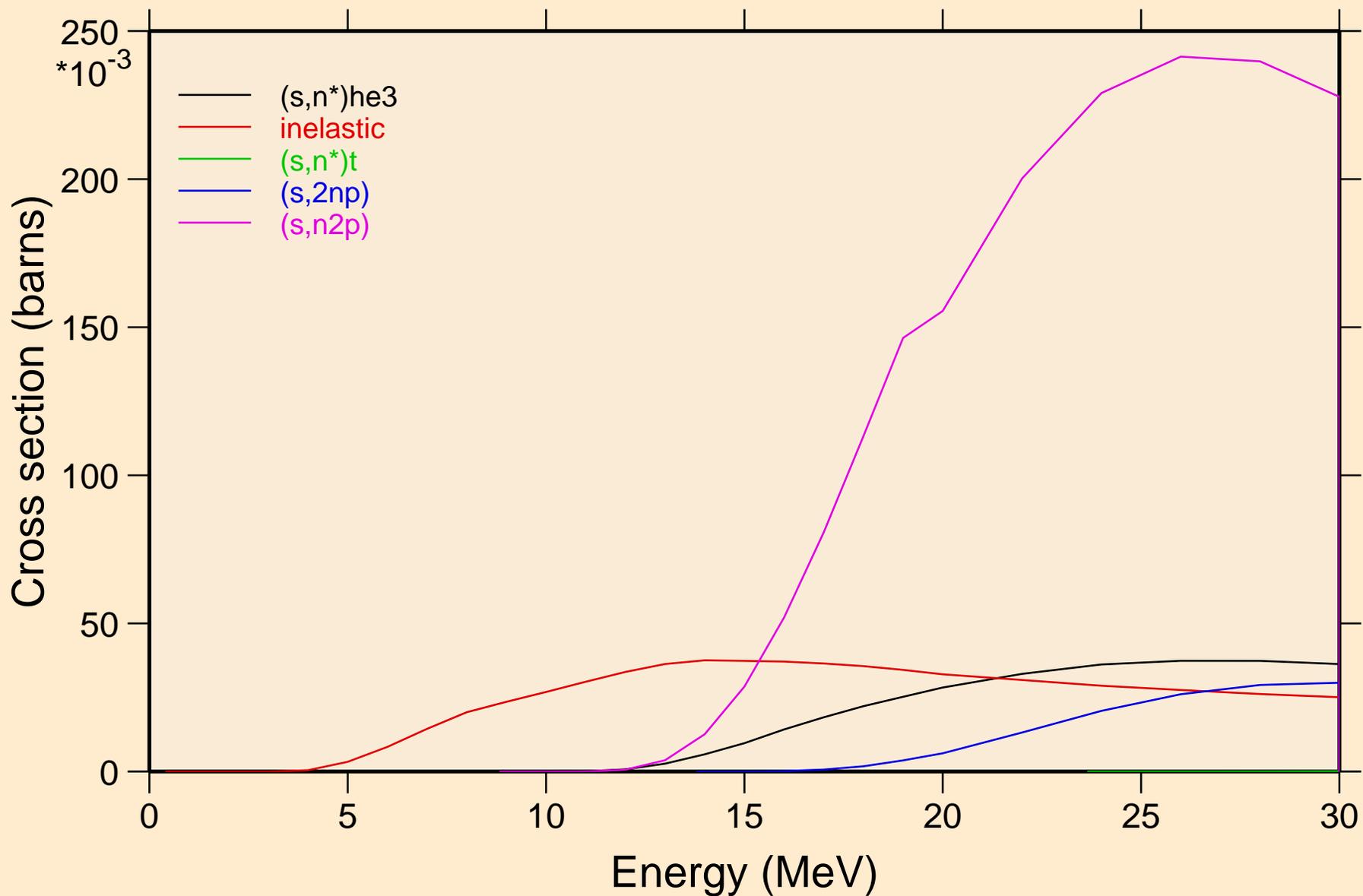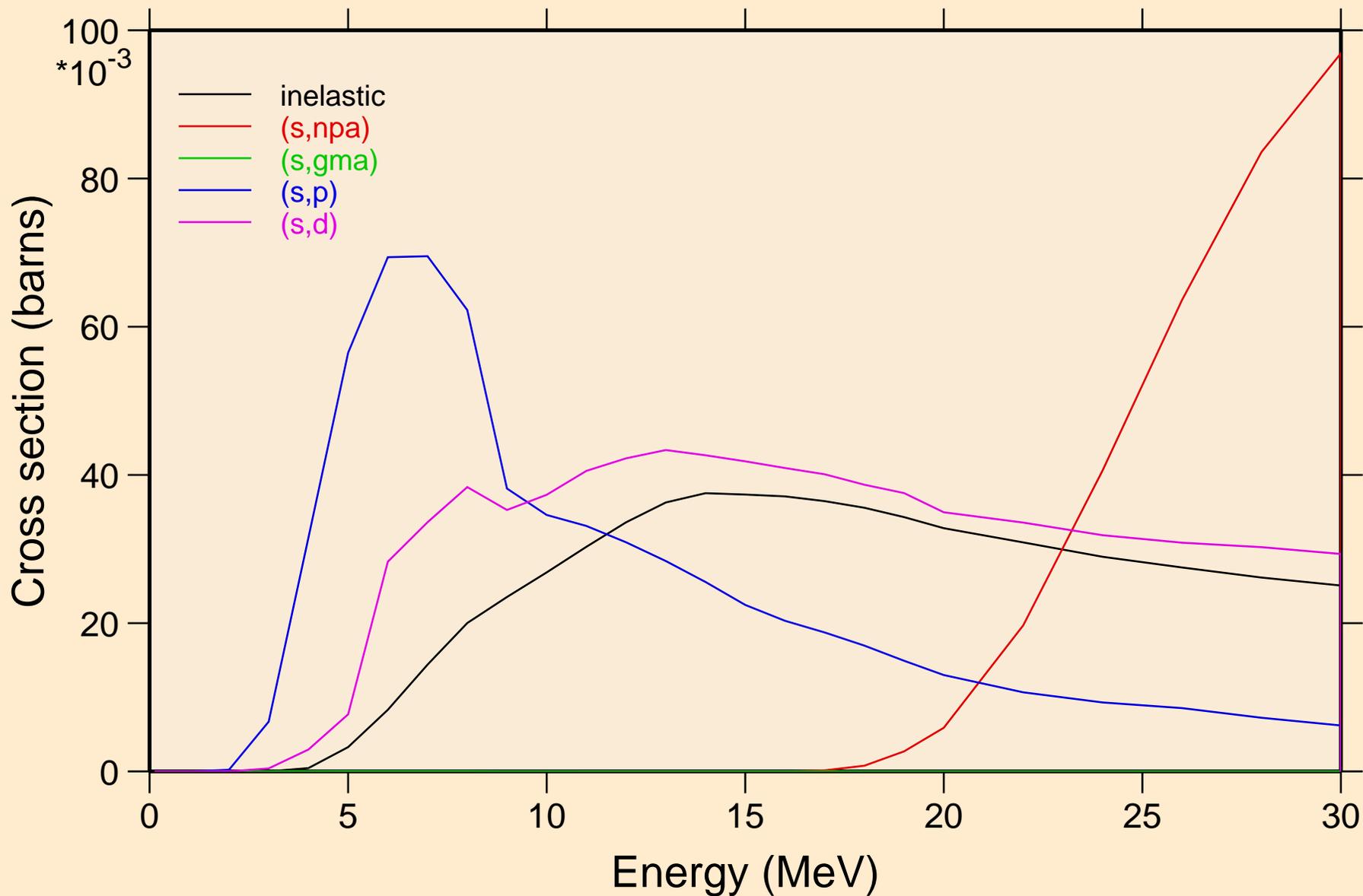Threshold reactions

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
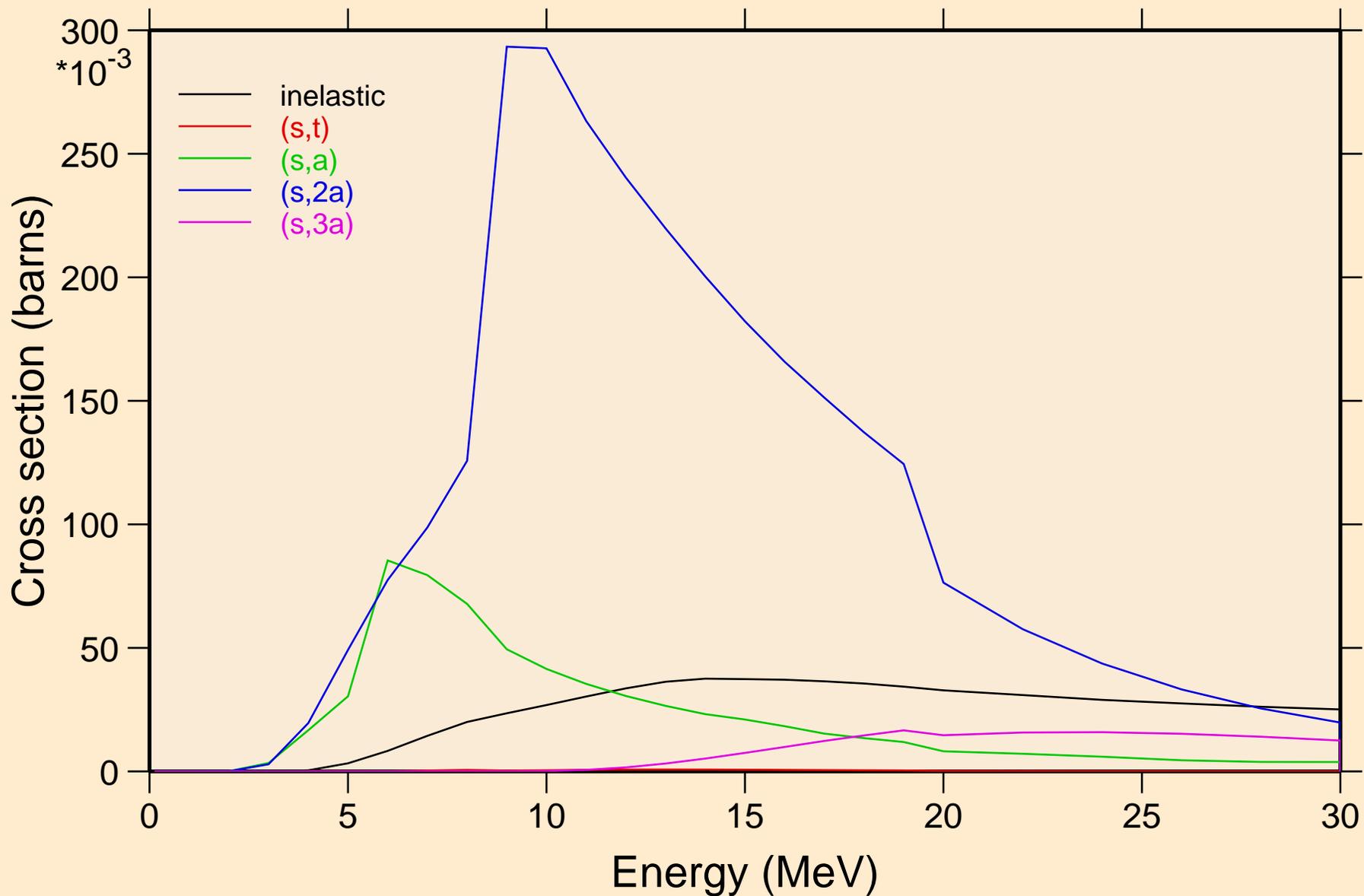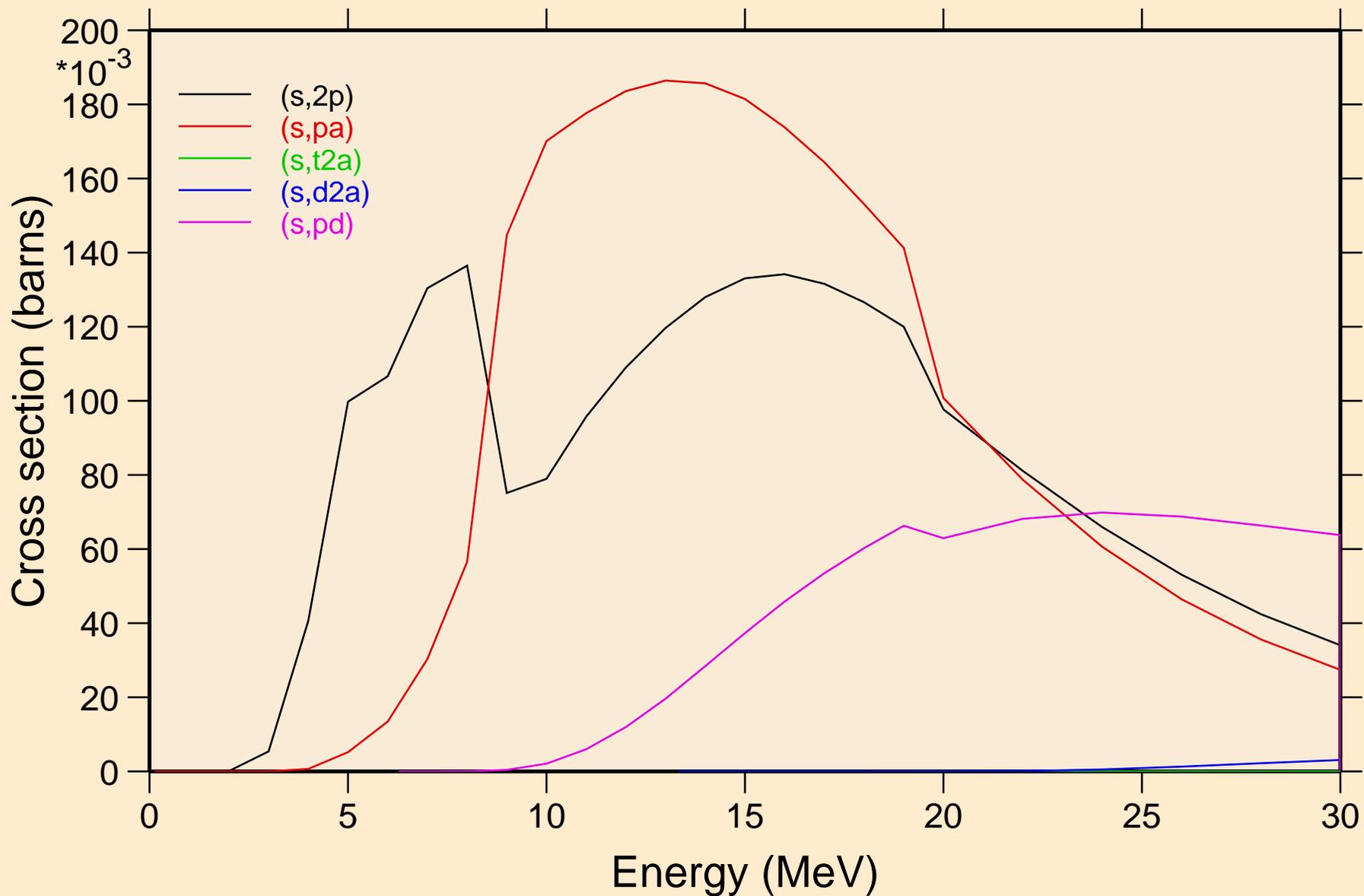Threshold reactions

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
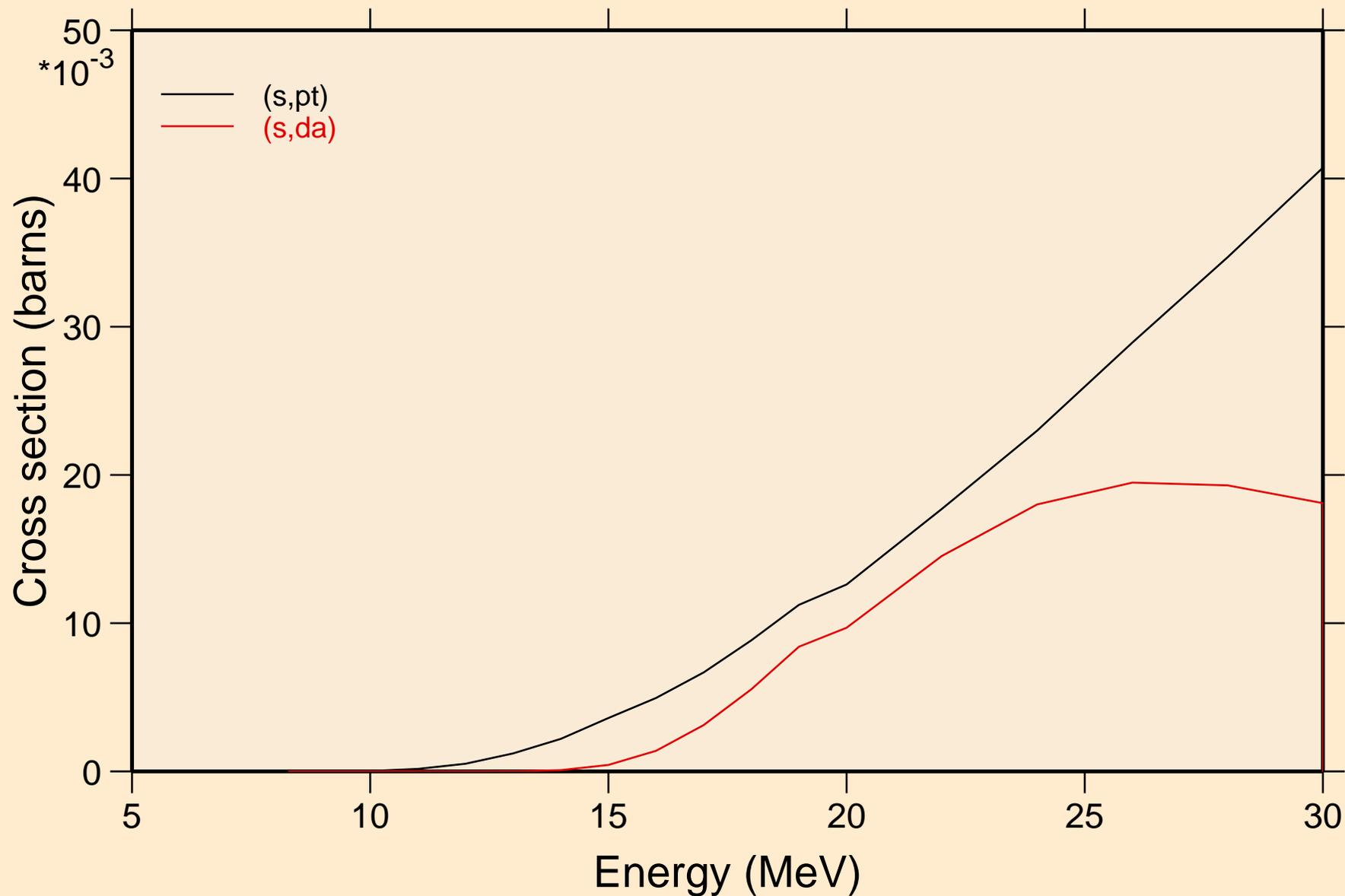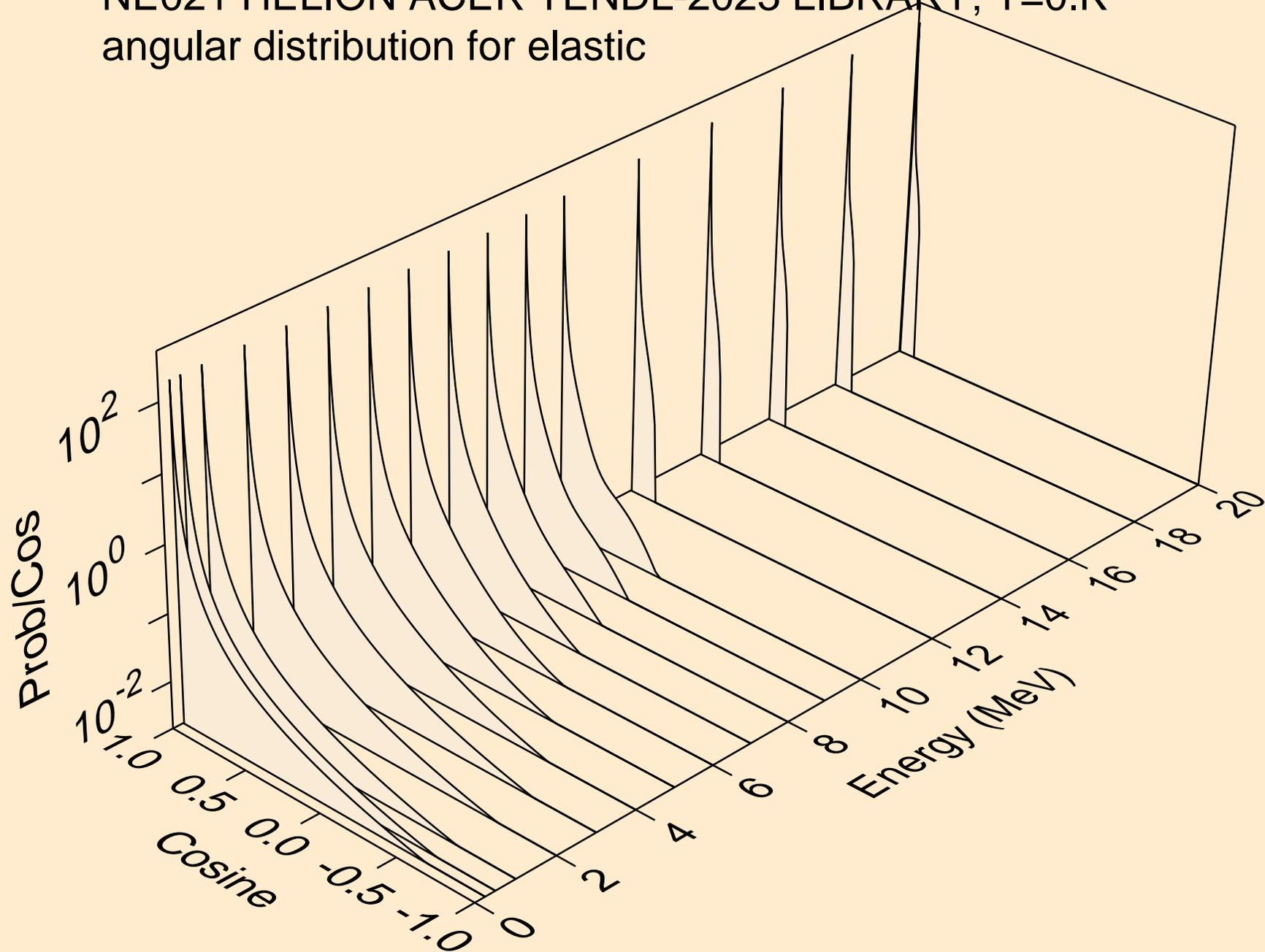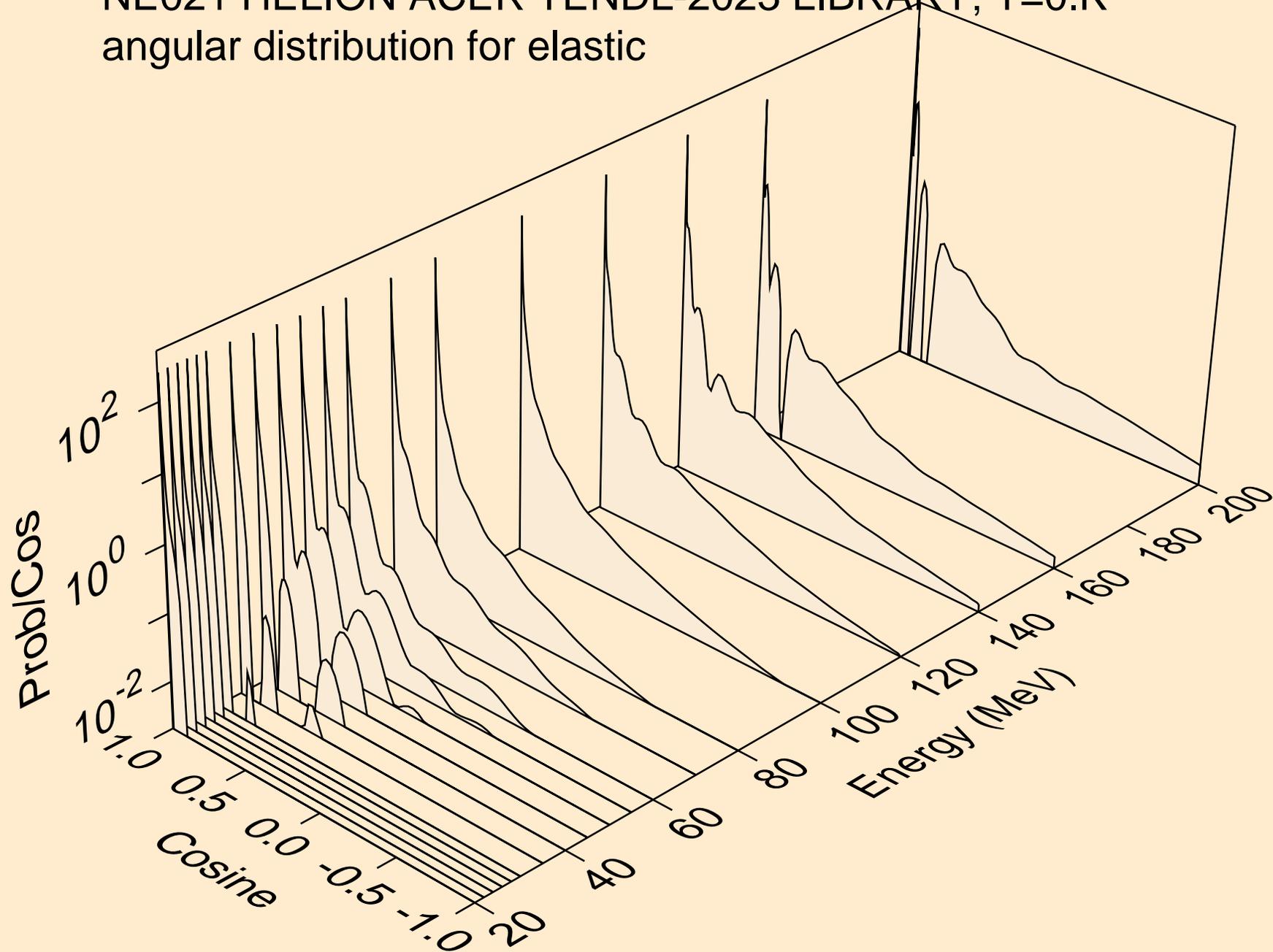Threshold reactions

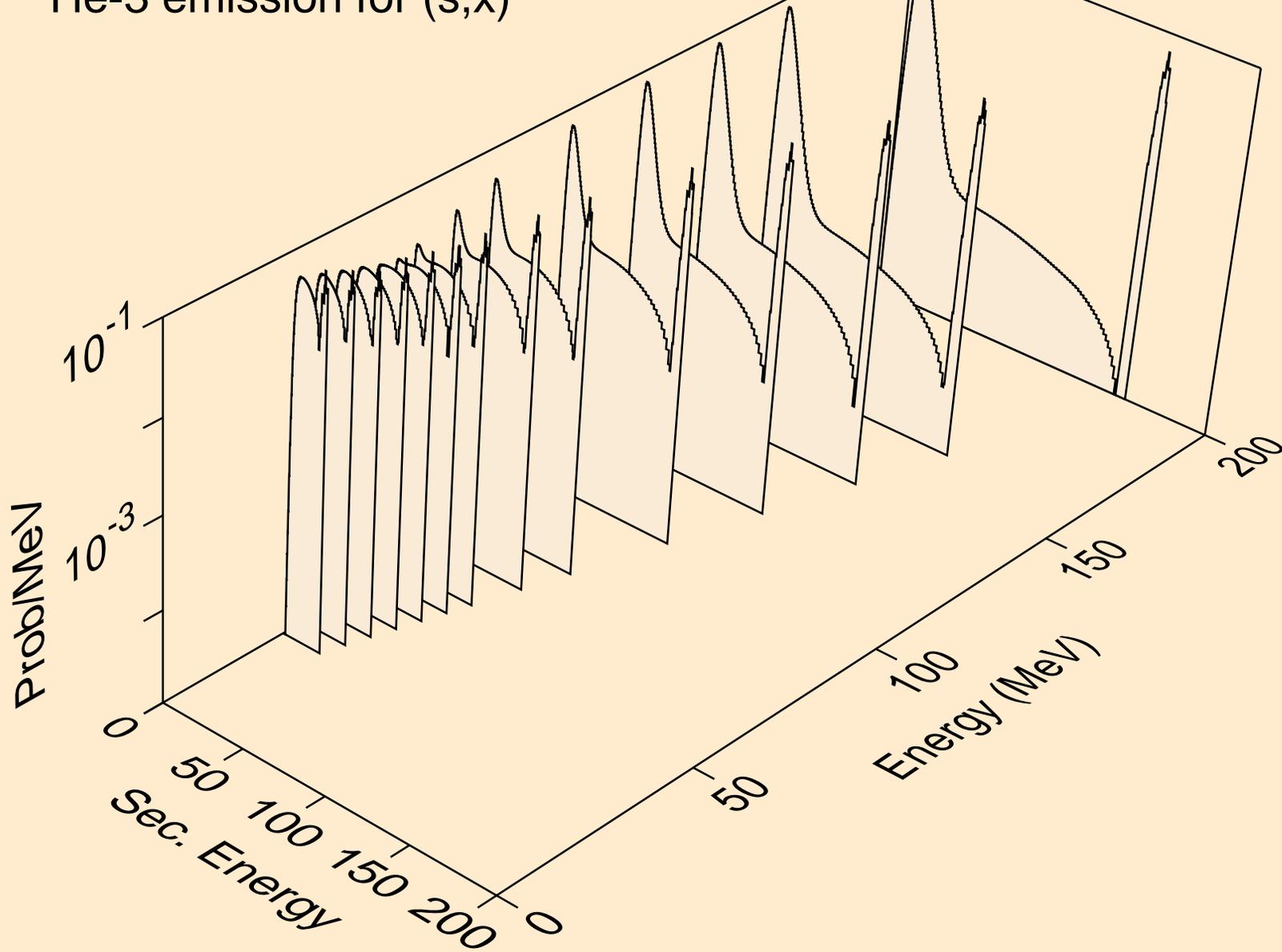NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
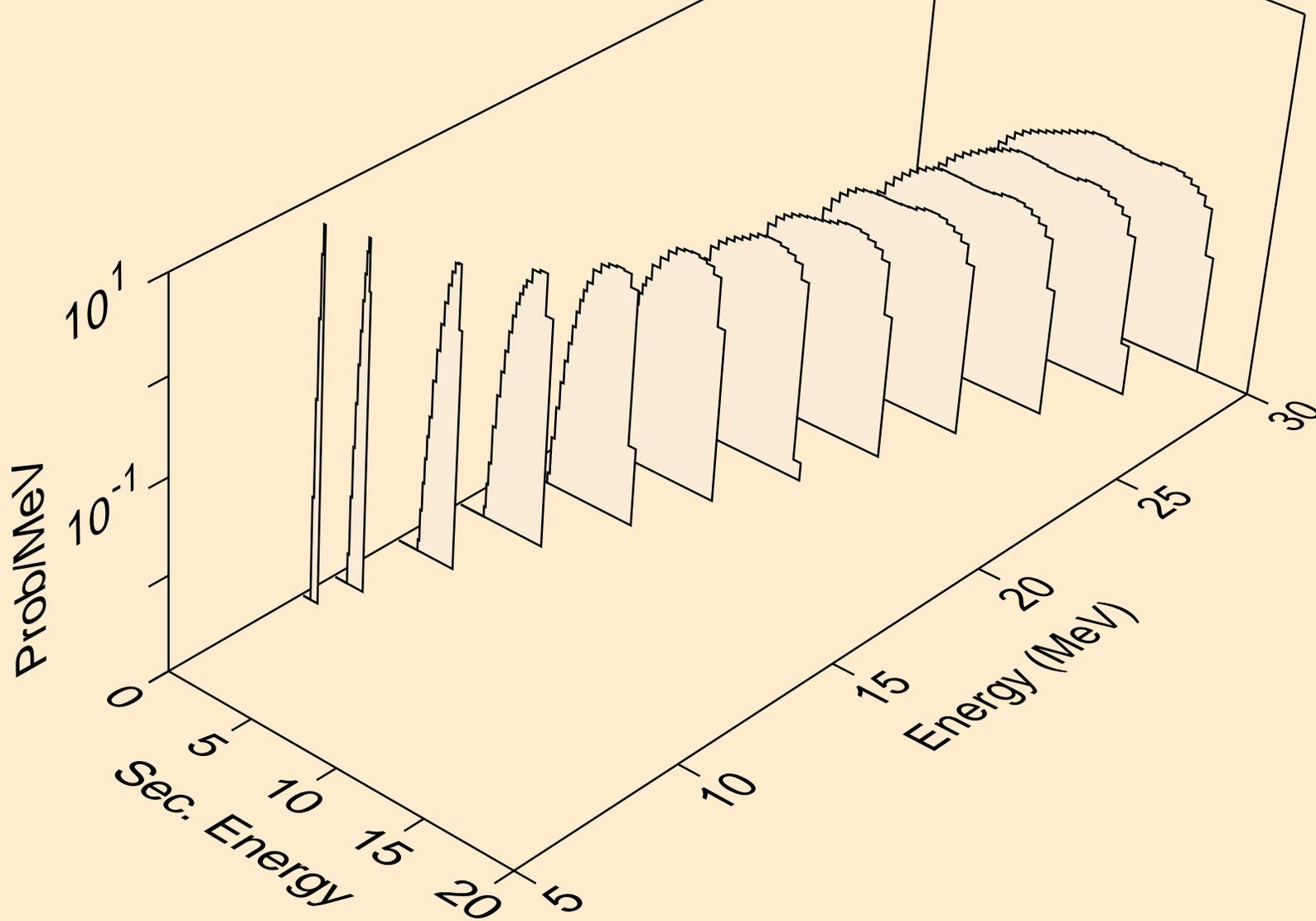angular distribution for elastic

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
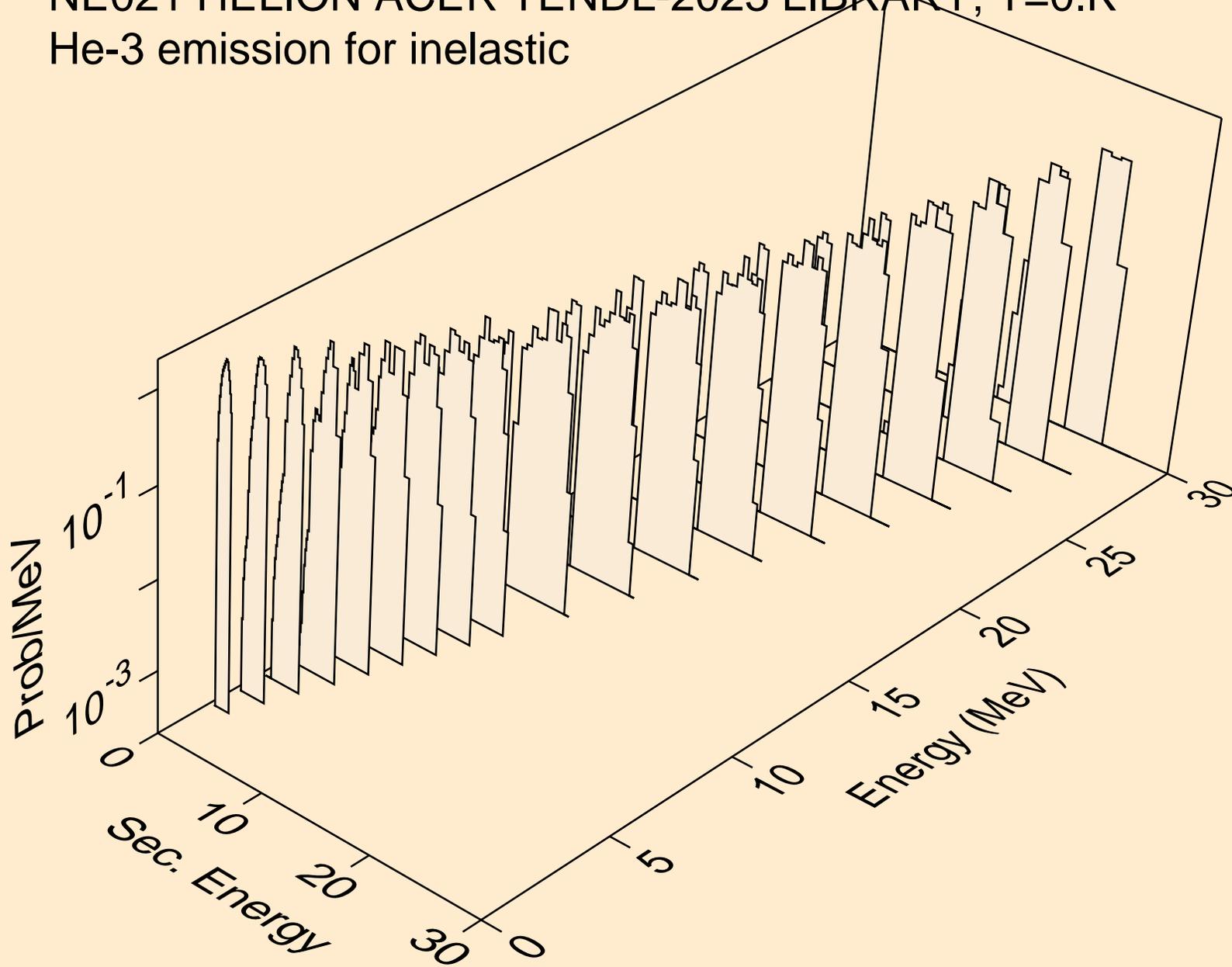angular distribution for elastic

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
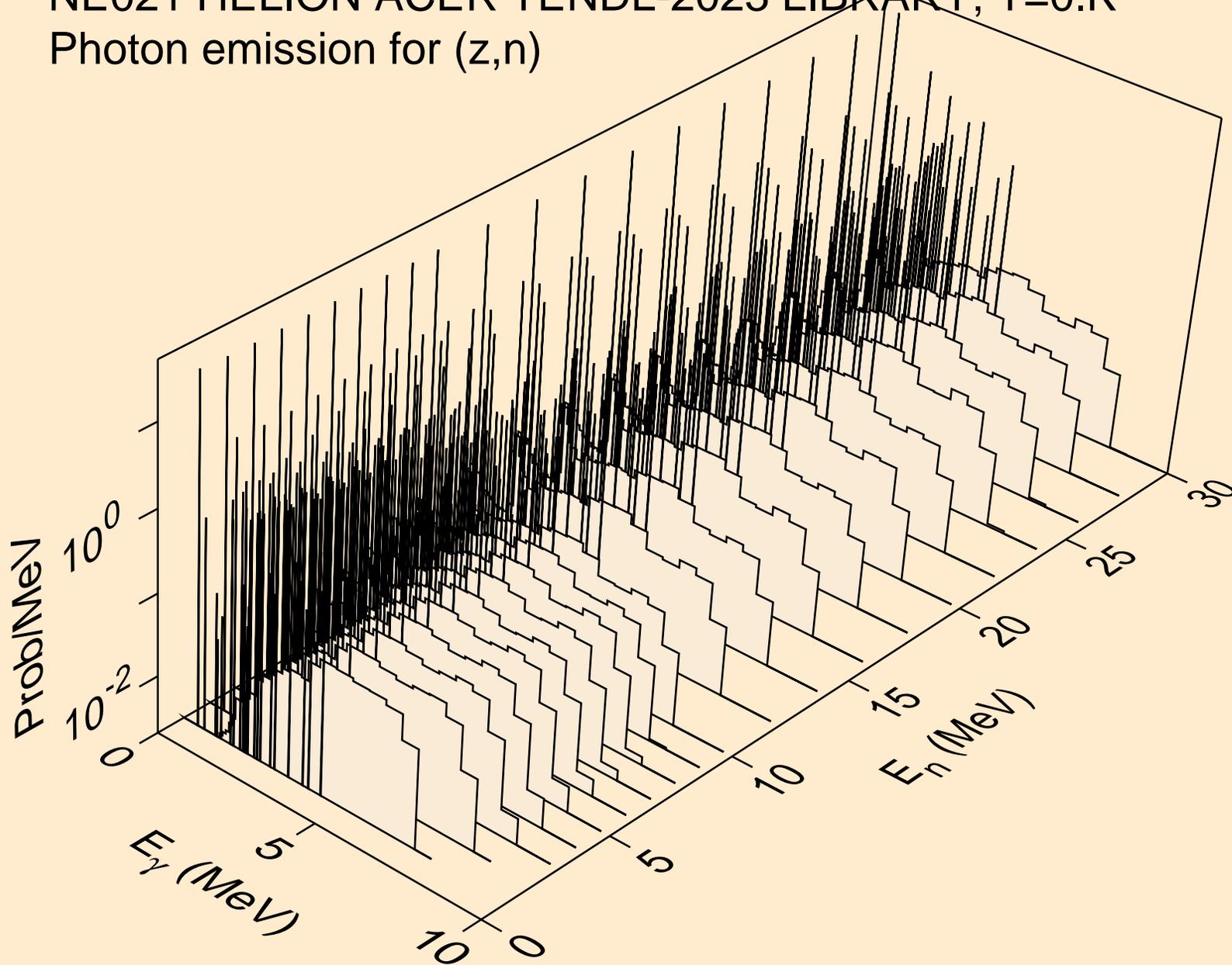He-3 emission for (s,x)

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
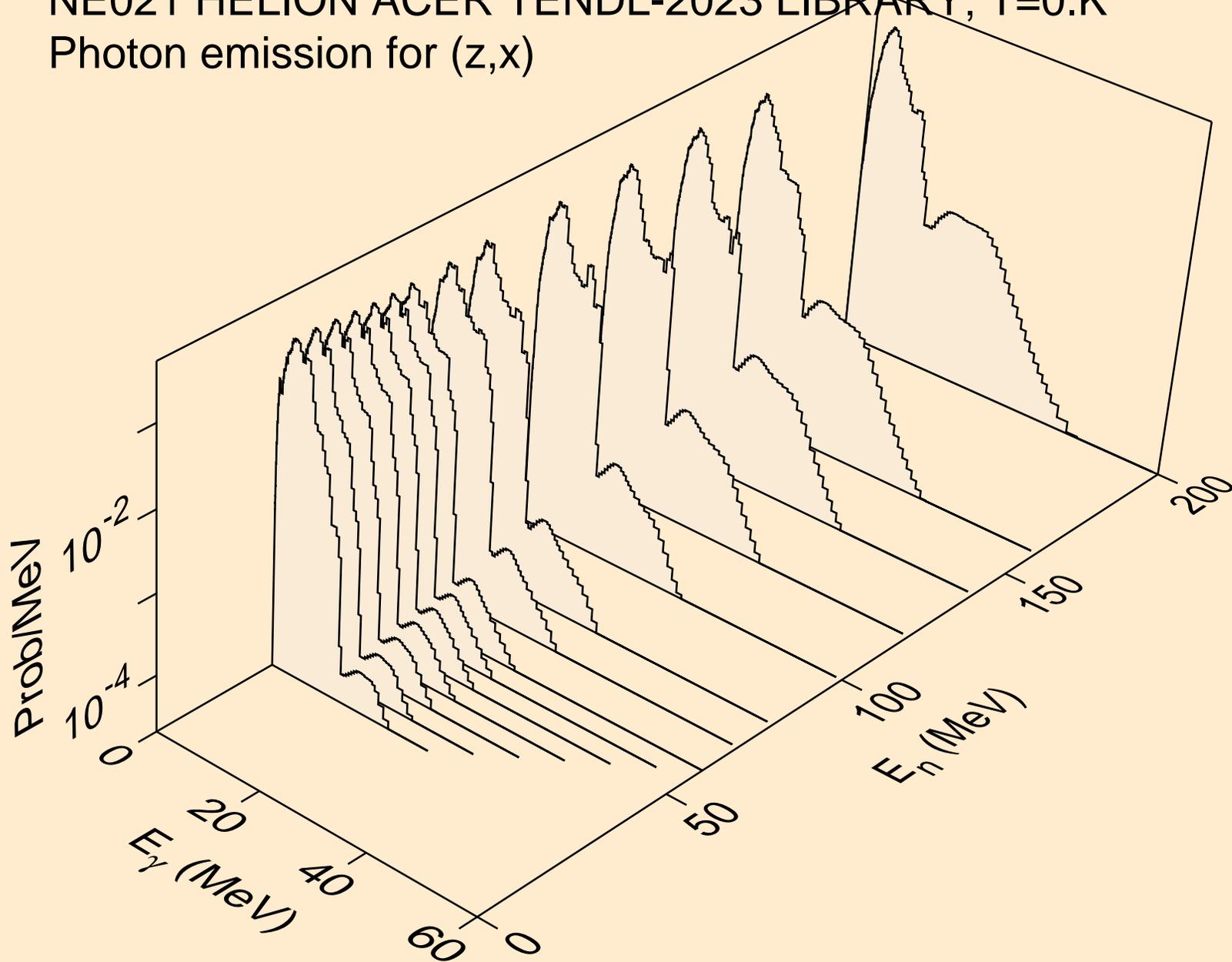He-3 emission for (s,n*)he3

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
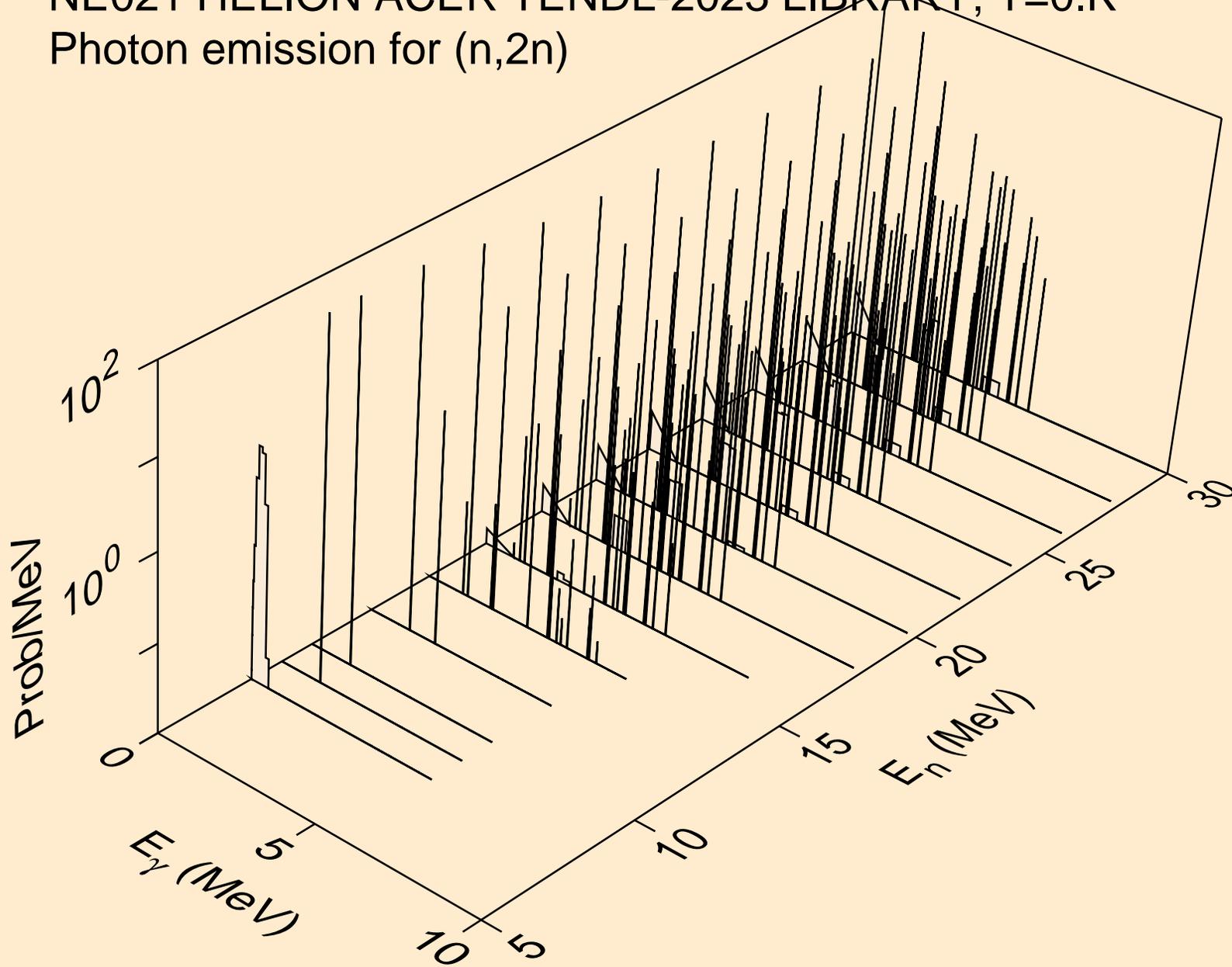He-3 emission for inelastic

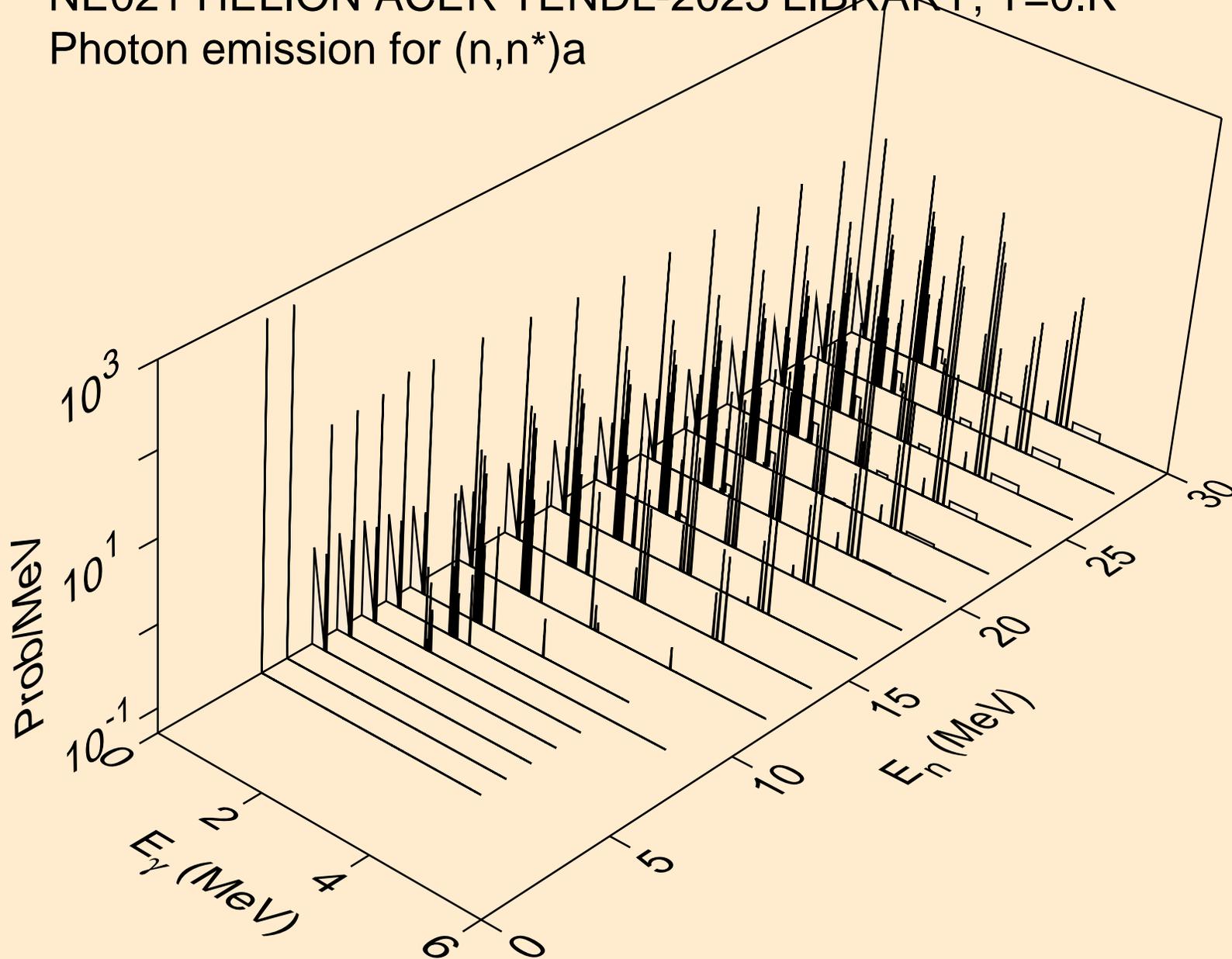NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (z,n)

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
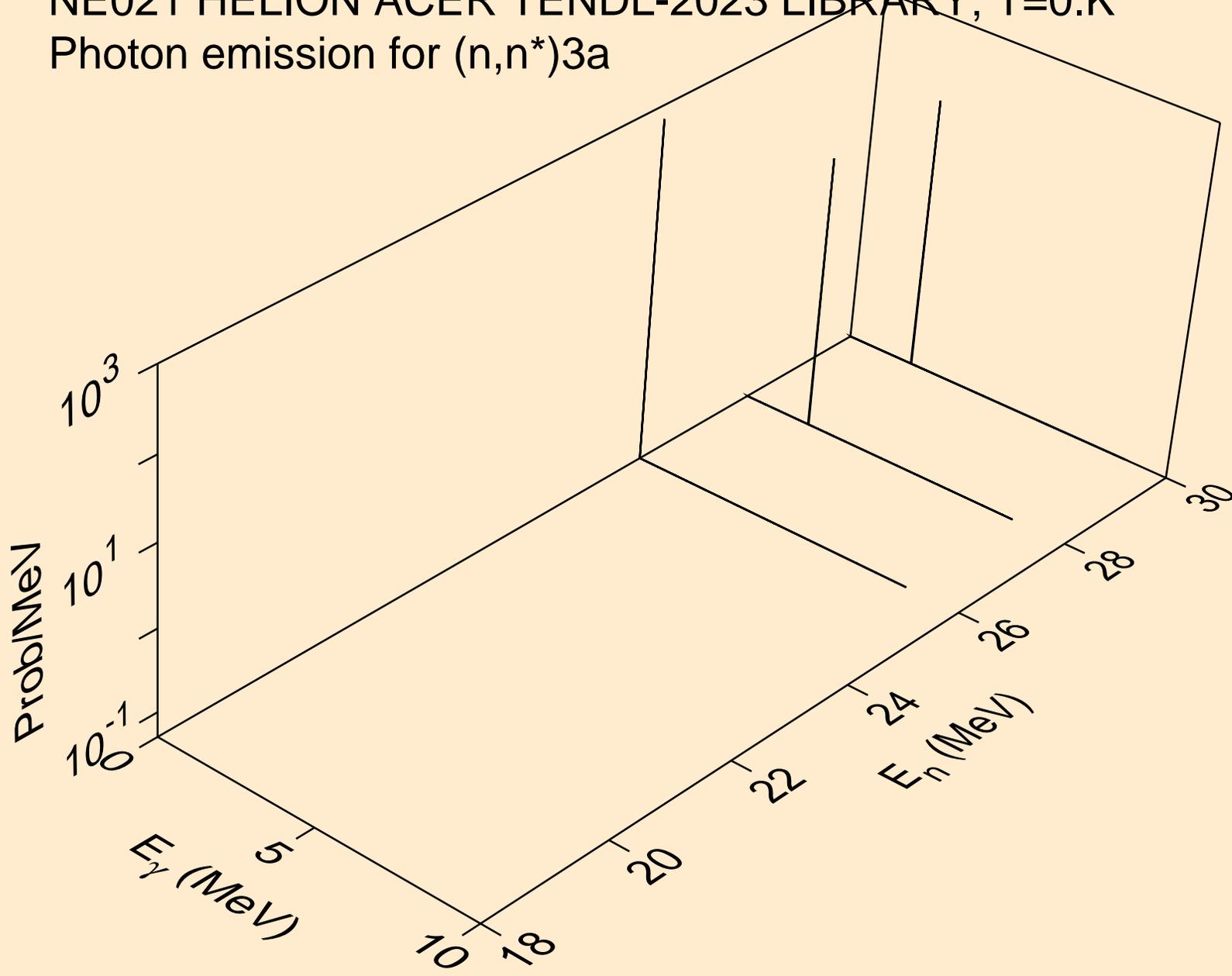Photon emission for (z,x)

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
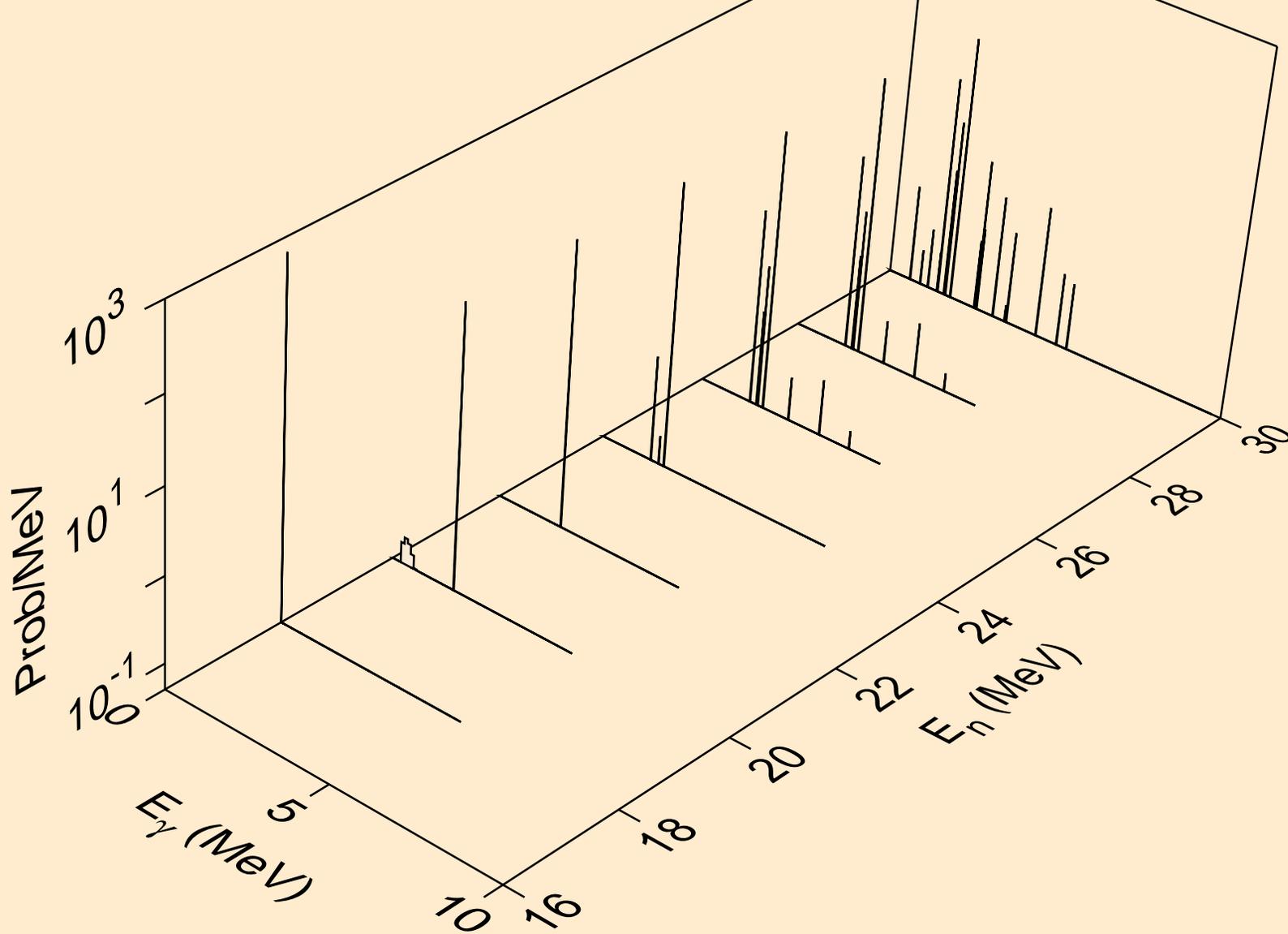Photon emission for (n,2n)

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)a

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)3a

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2n)a

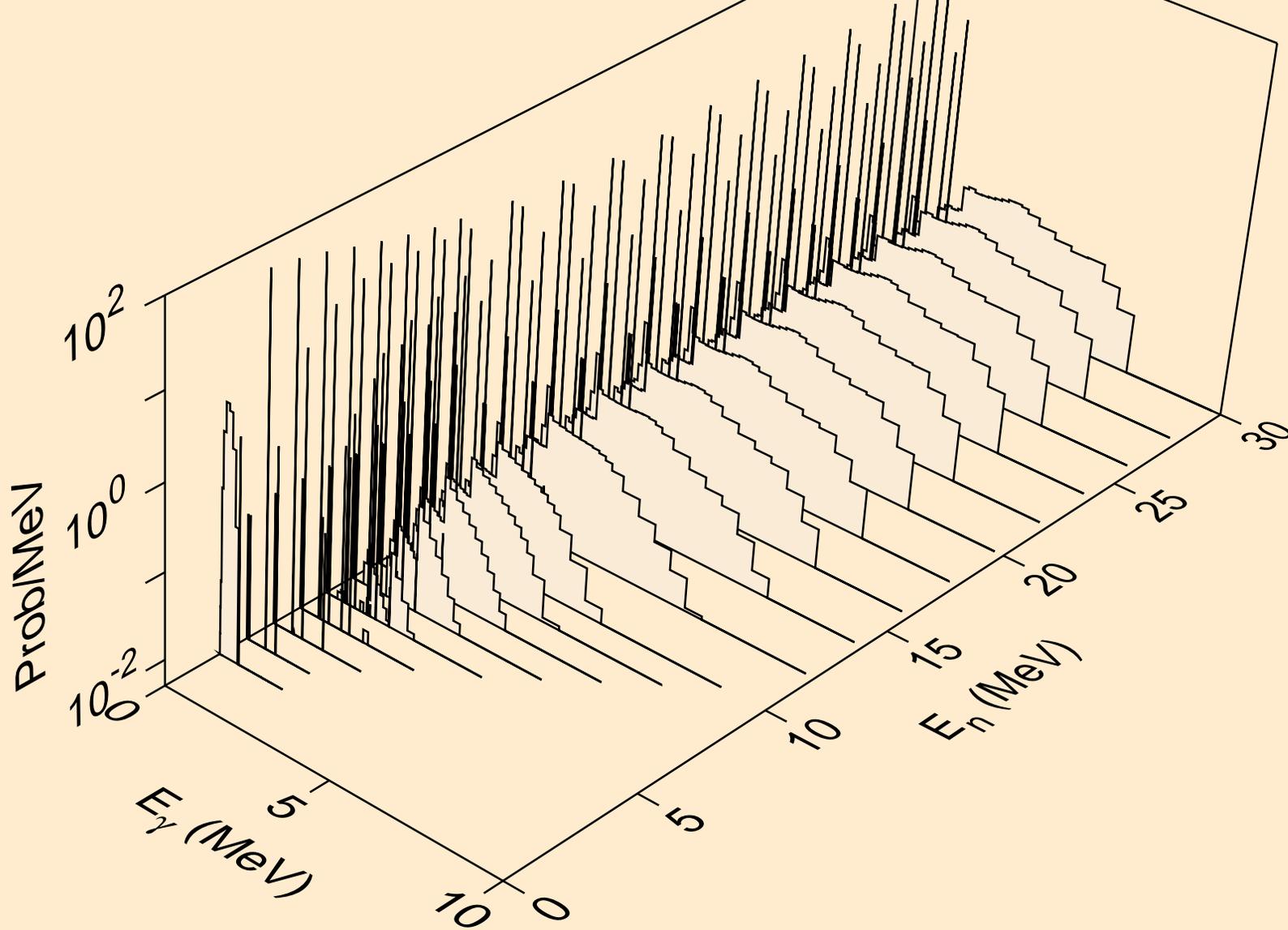NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)p

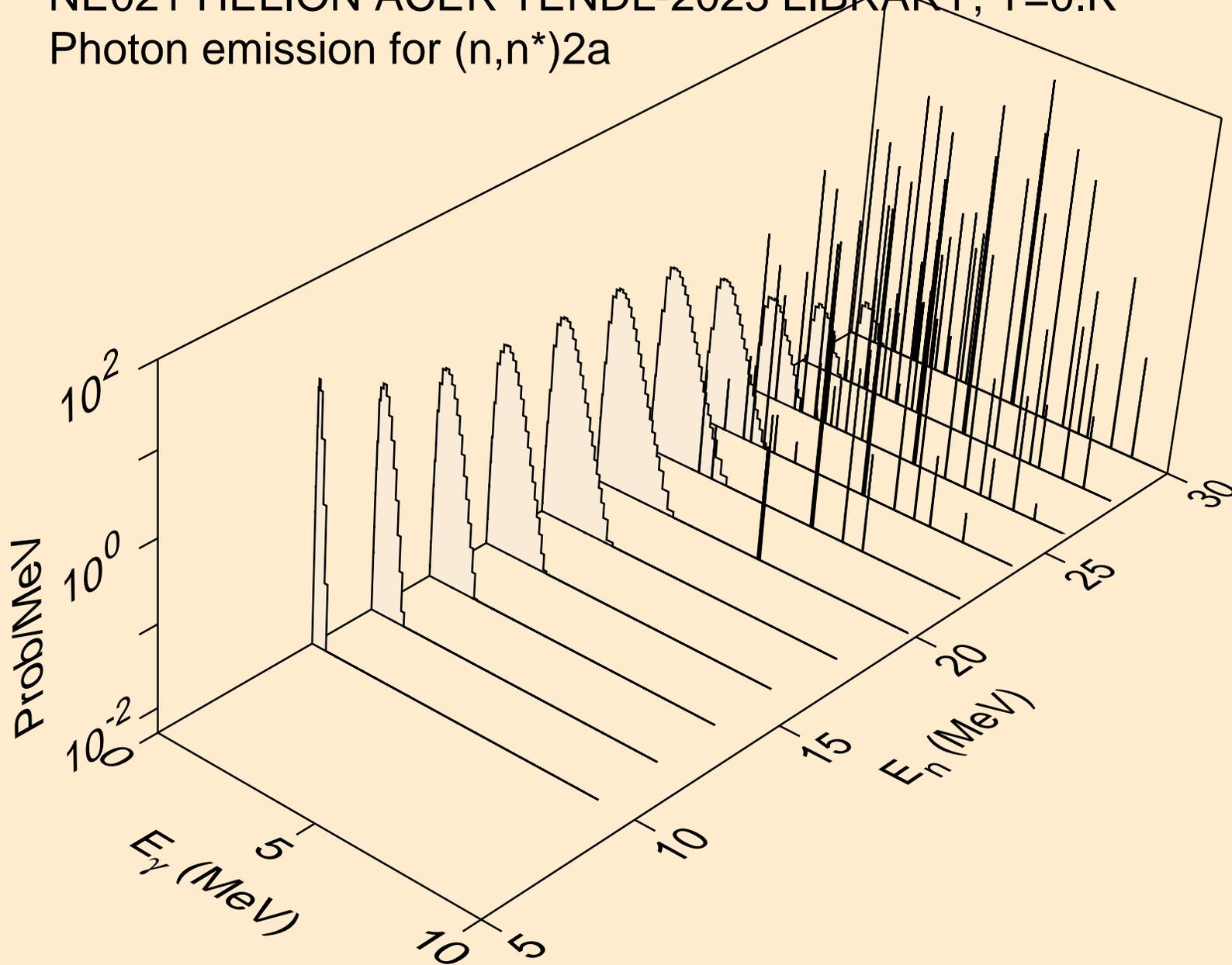NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)2a

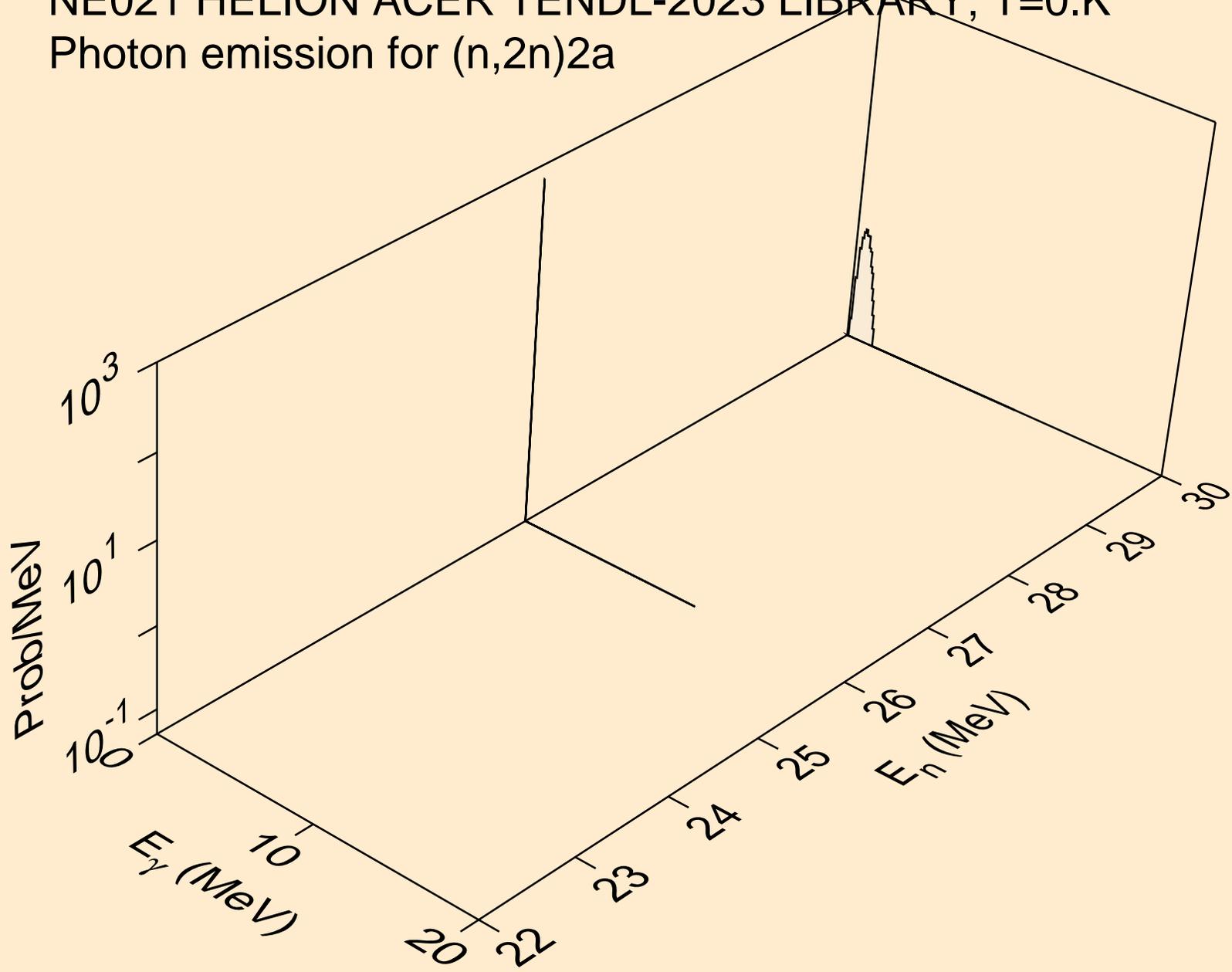NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2n)2a

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)d

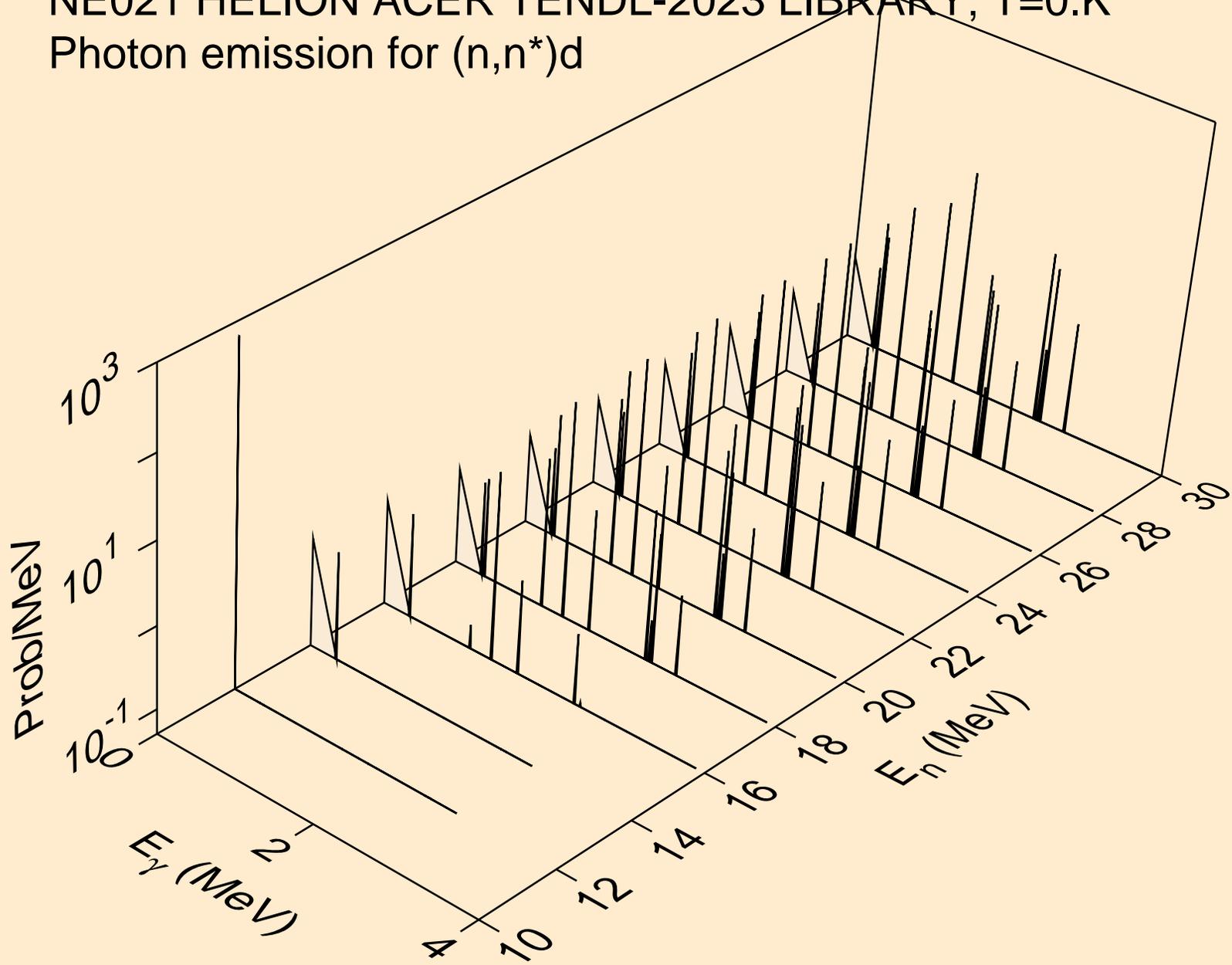NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)t

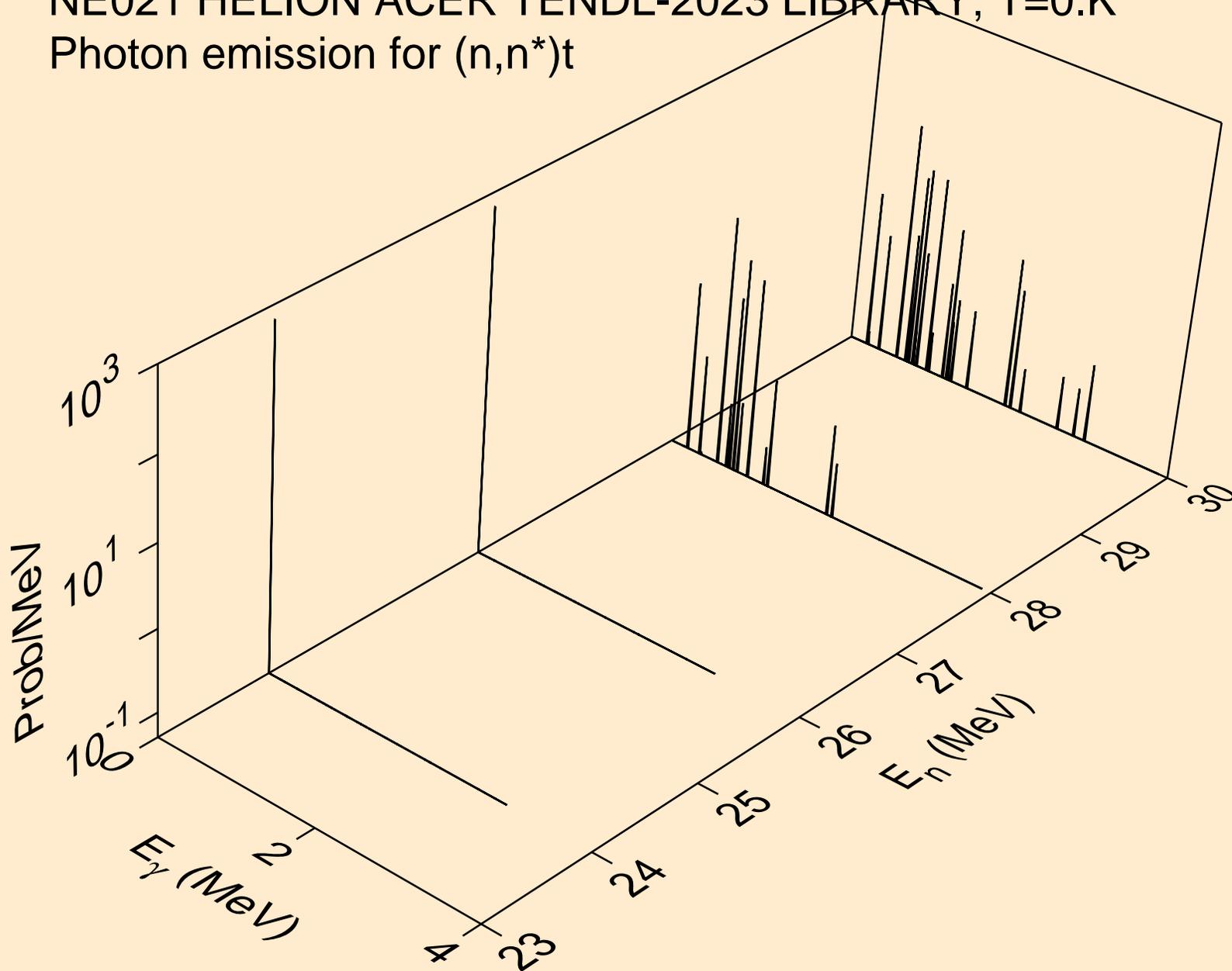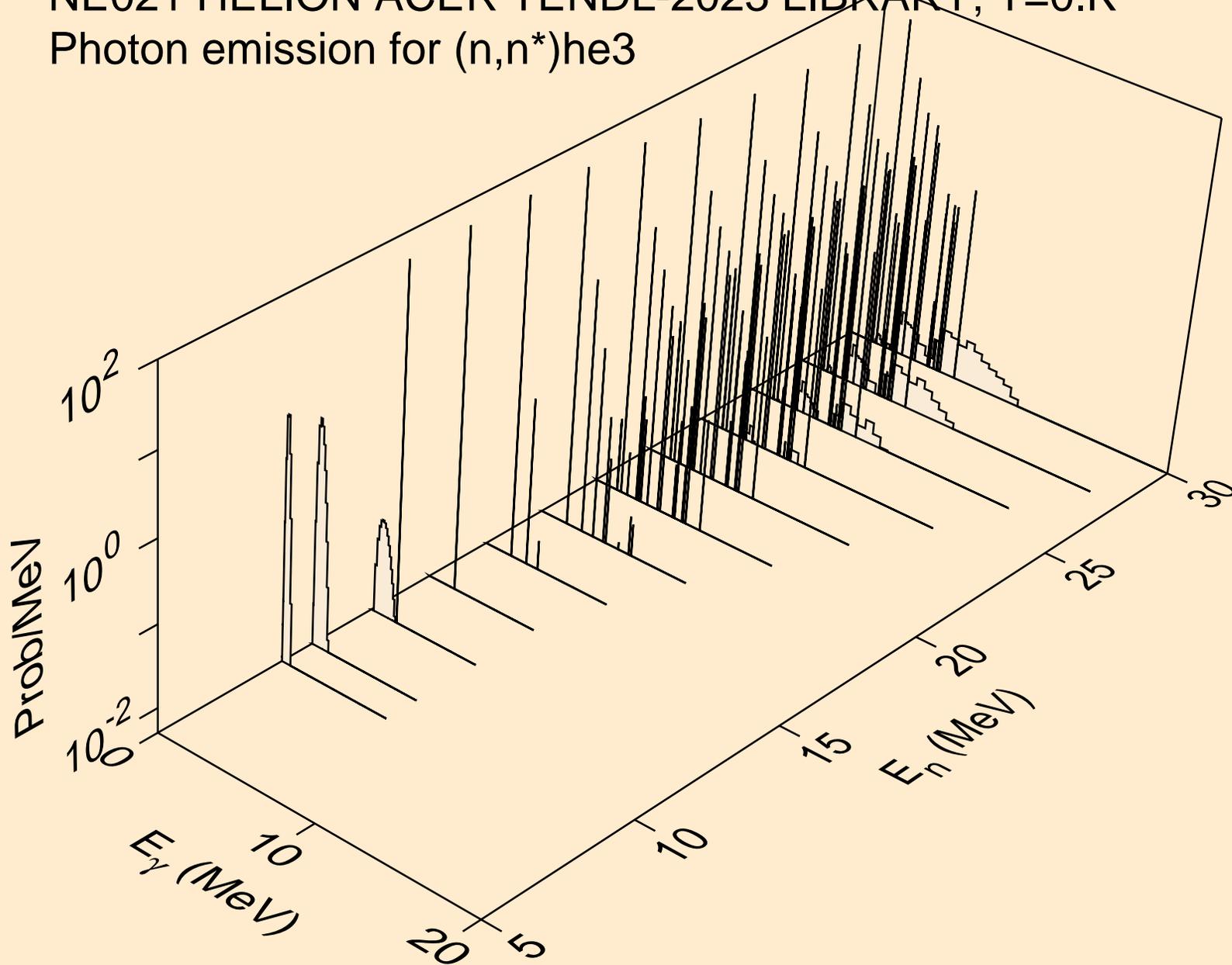NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)he3

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2np)

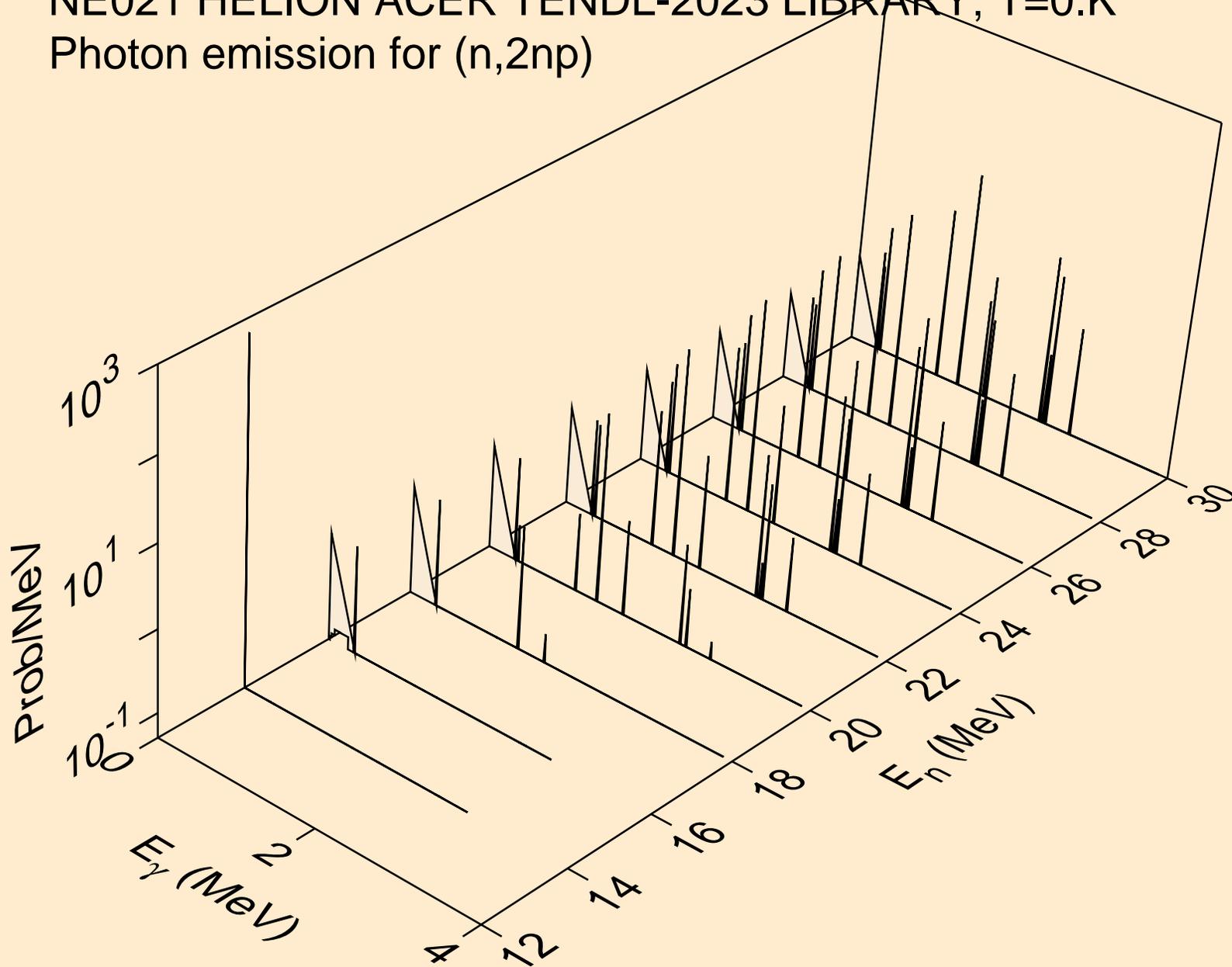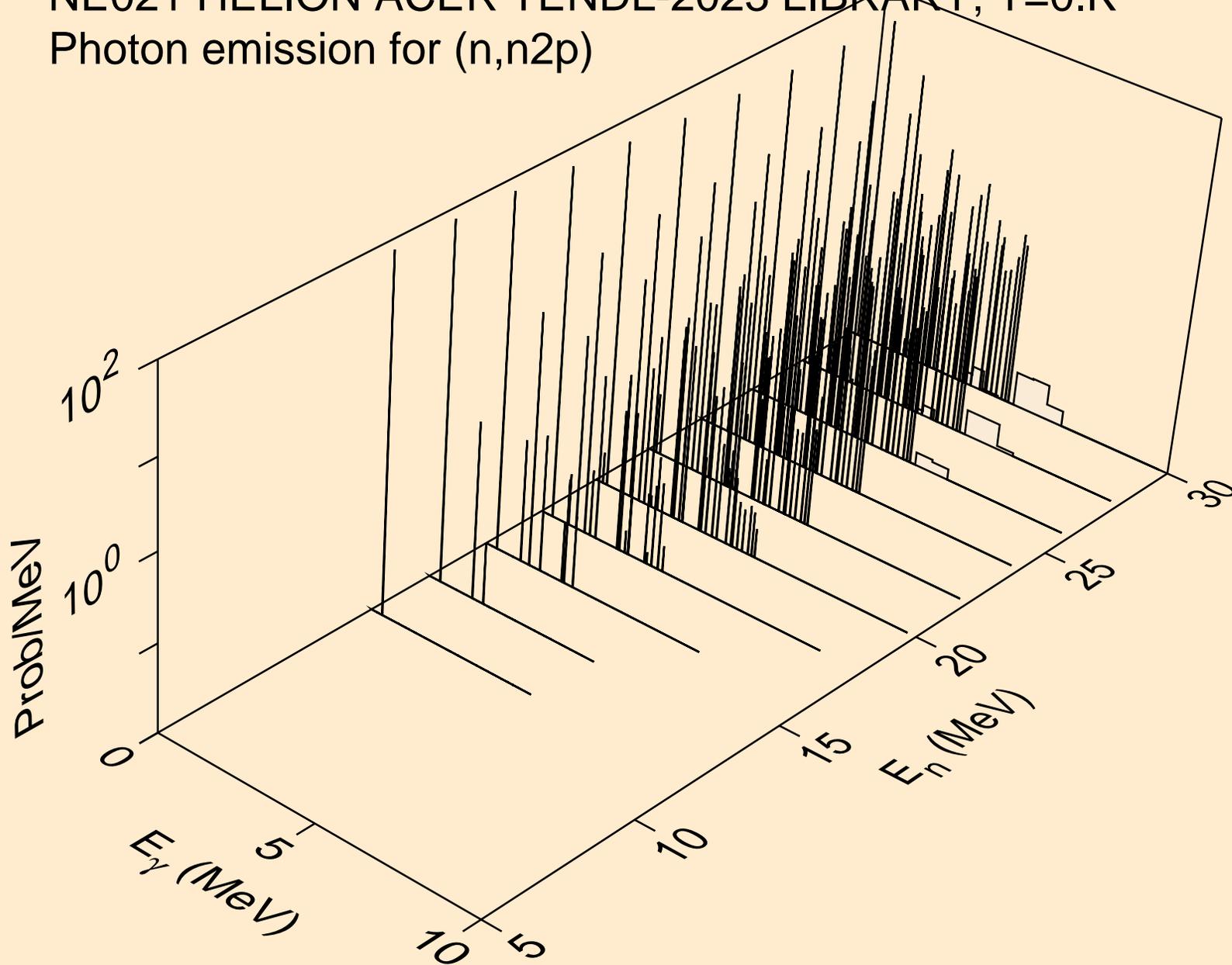NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n2p)

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,npa)

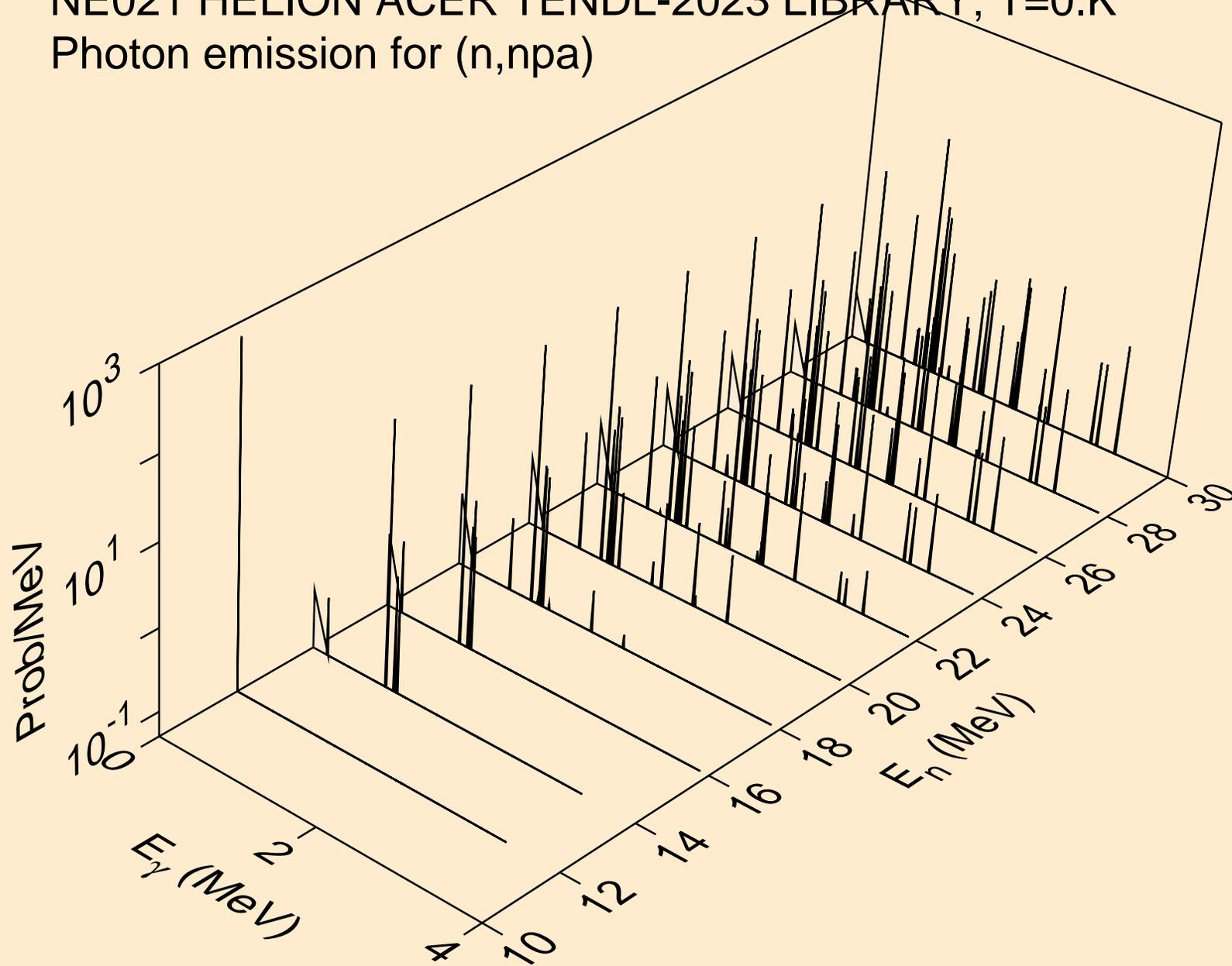NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,gma)
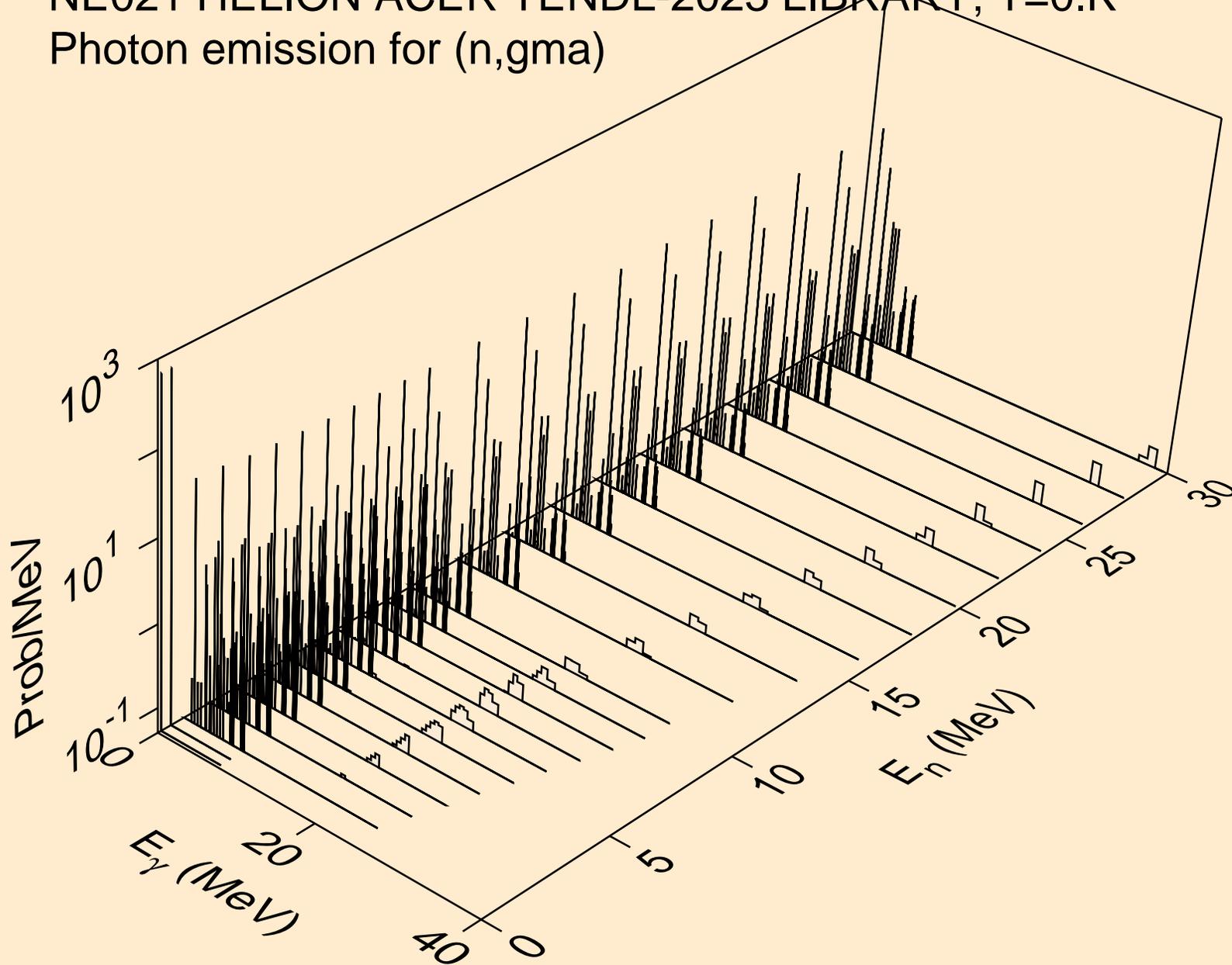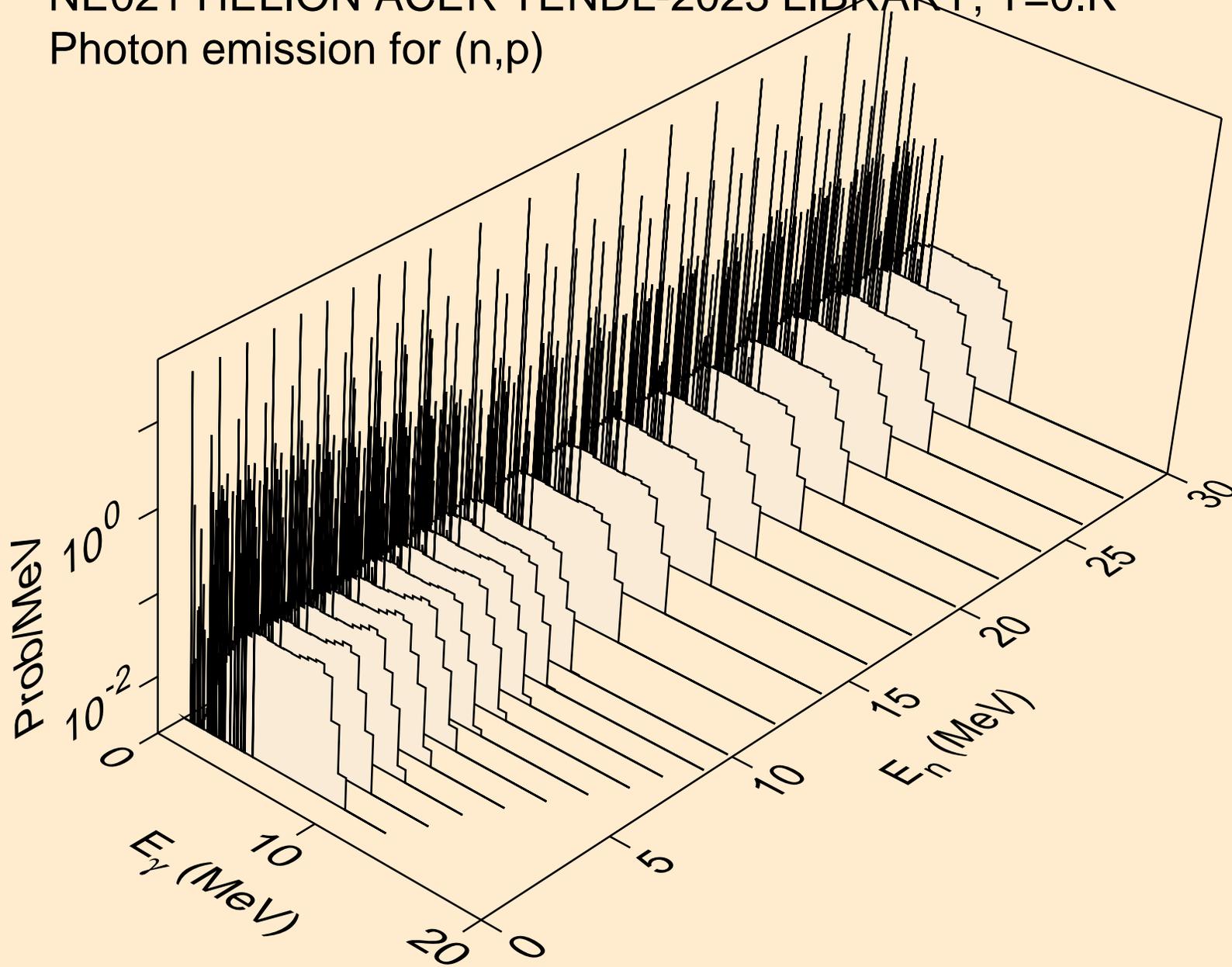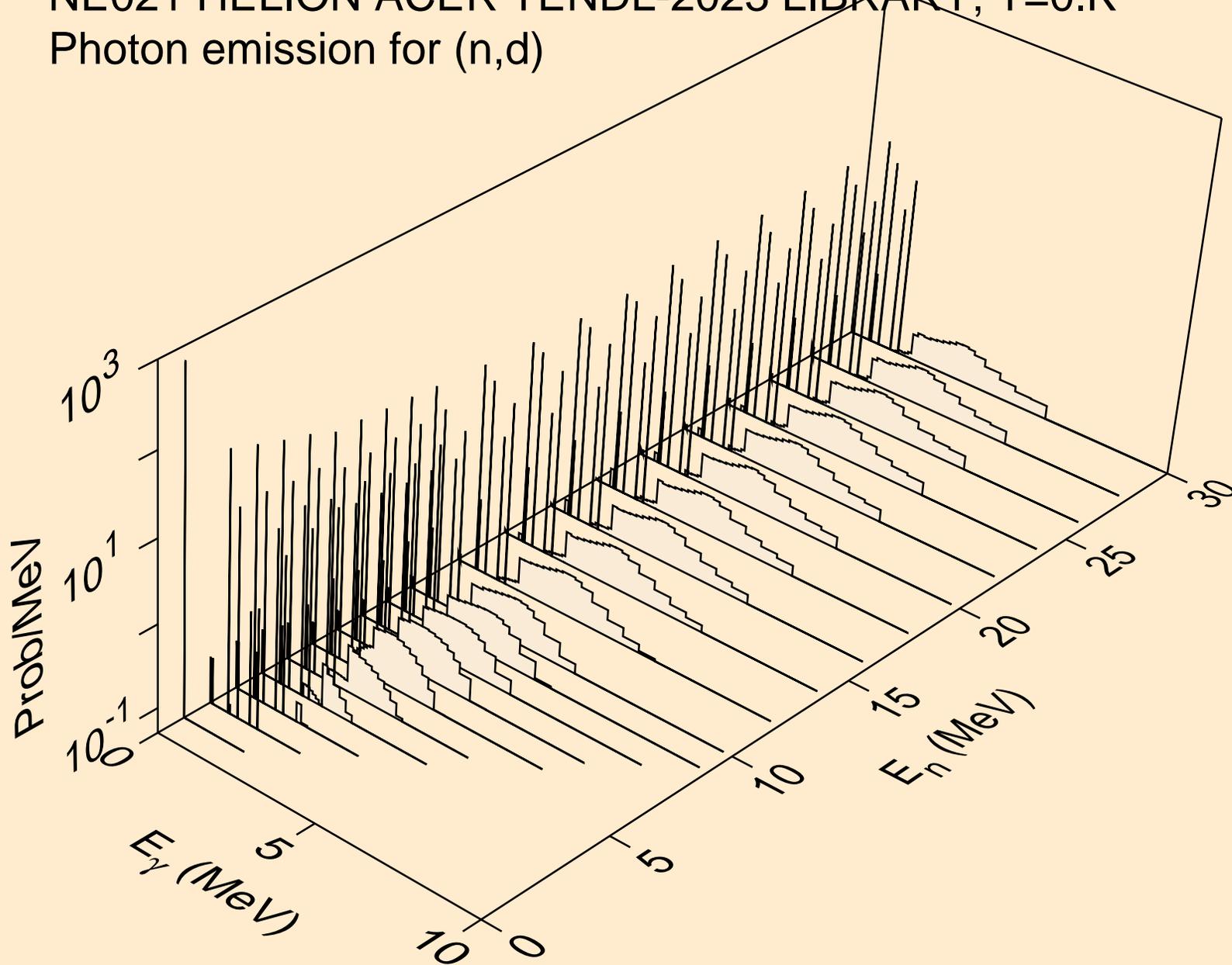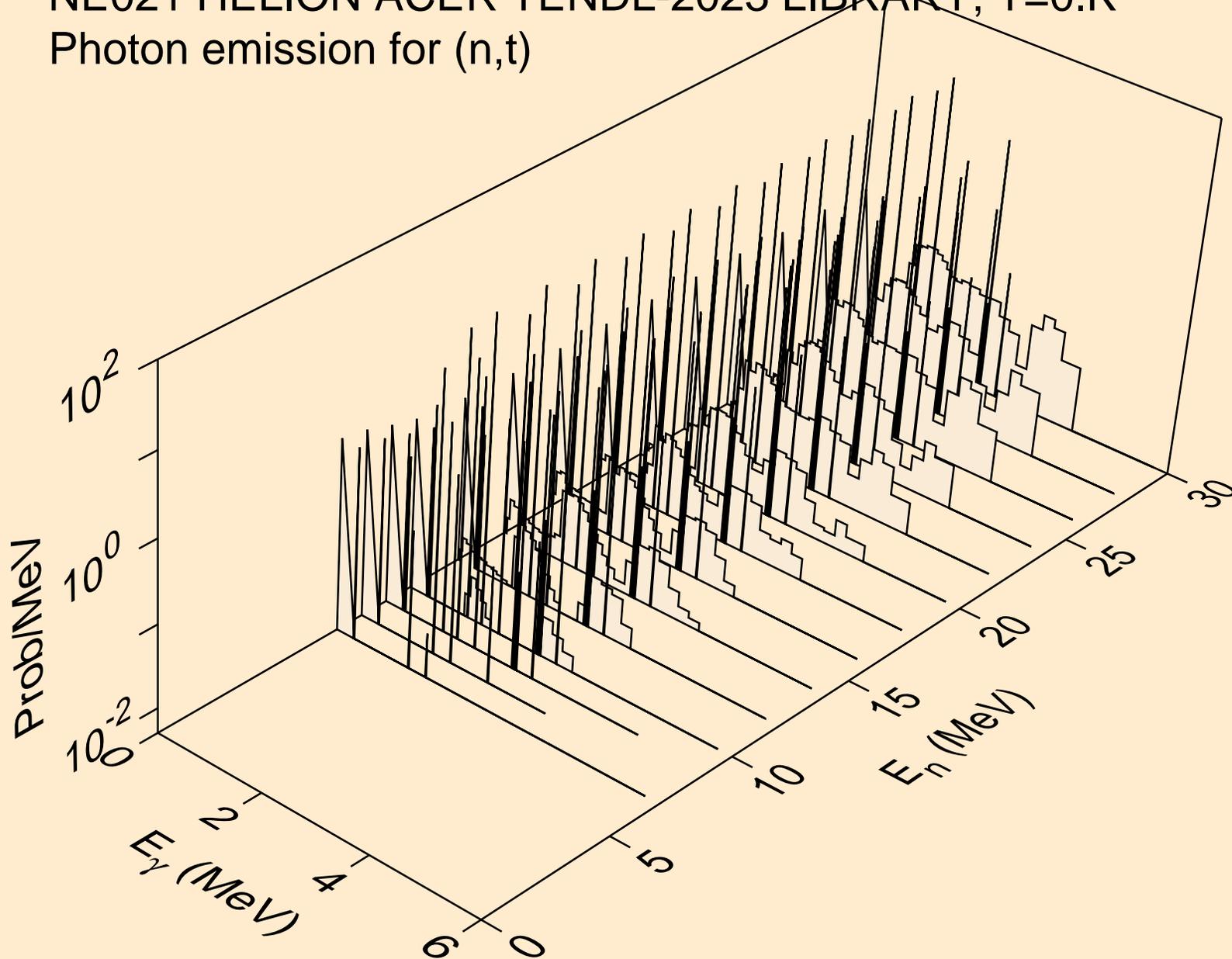
NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,p)

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,d)

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,t)

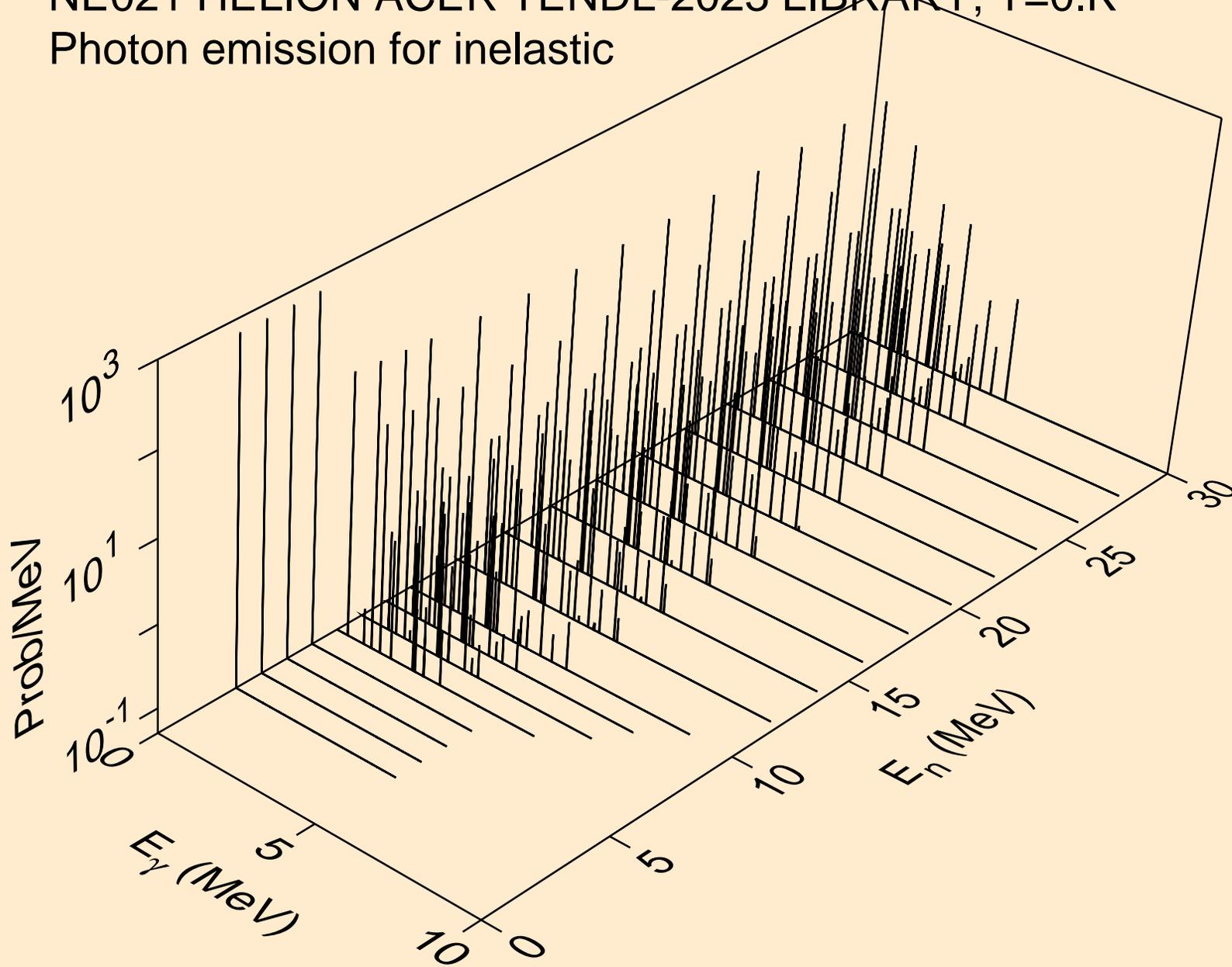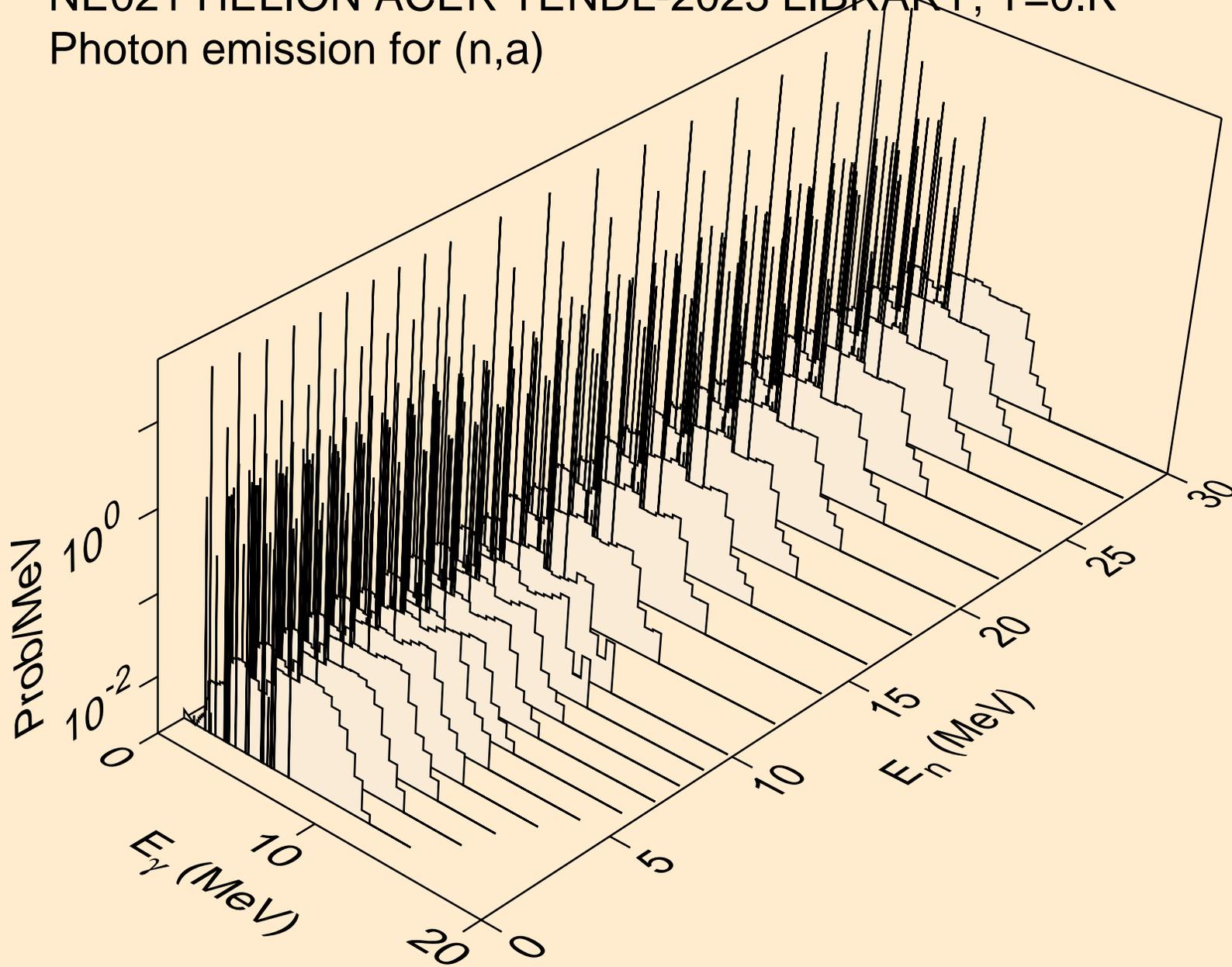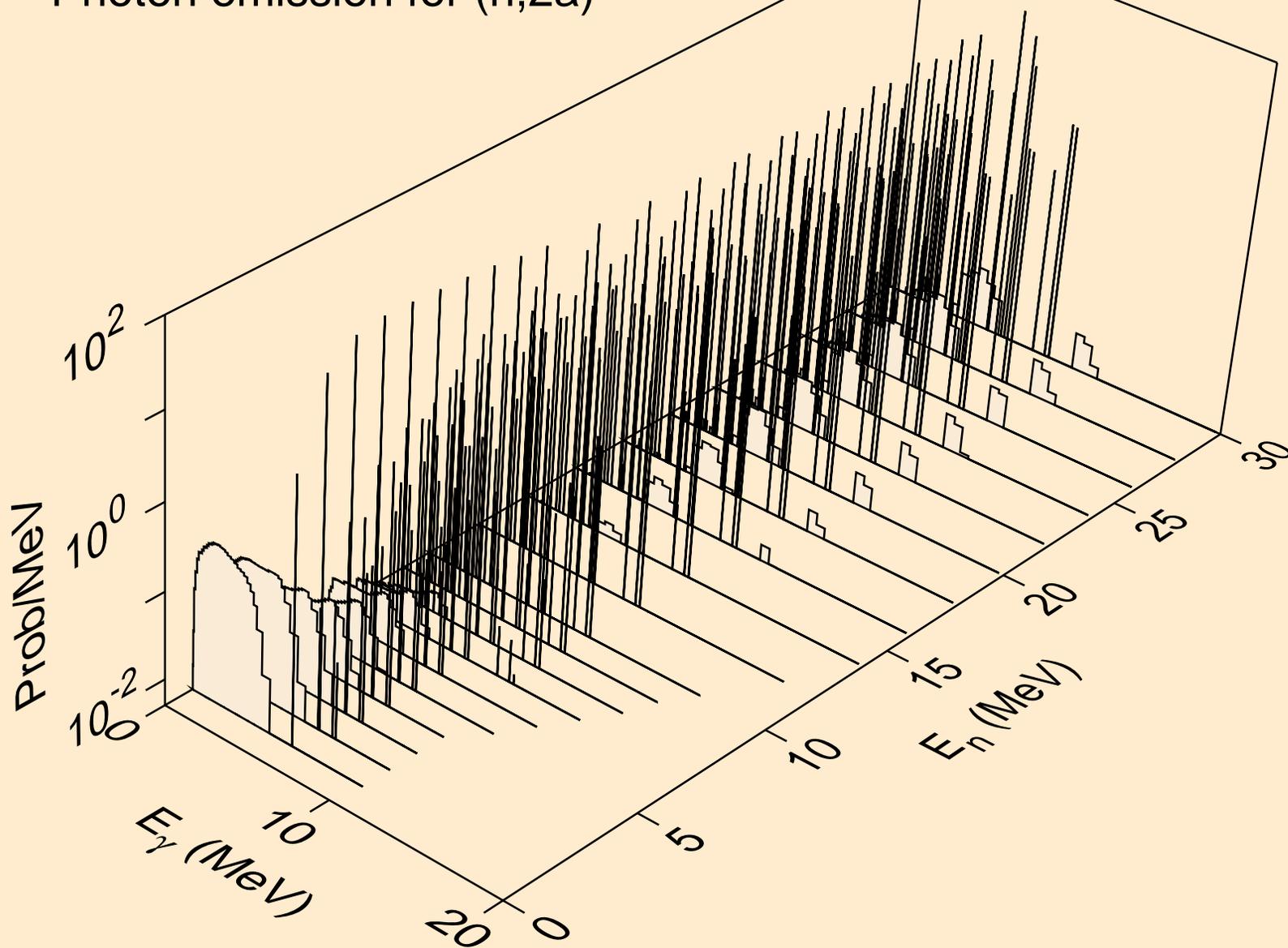NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
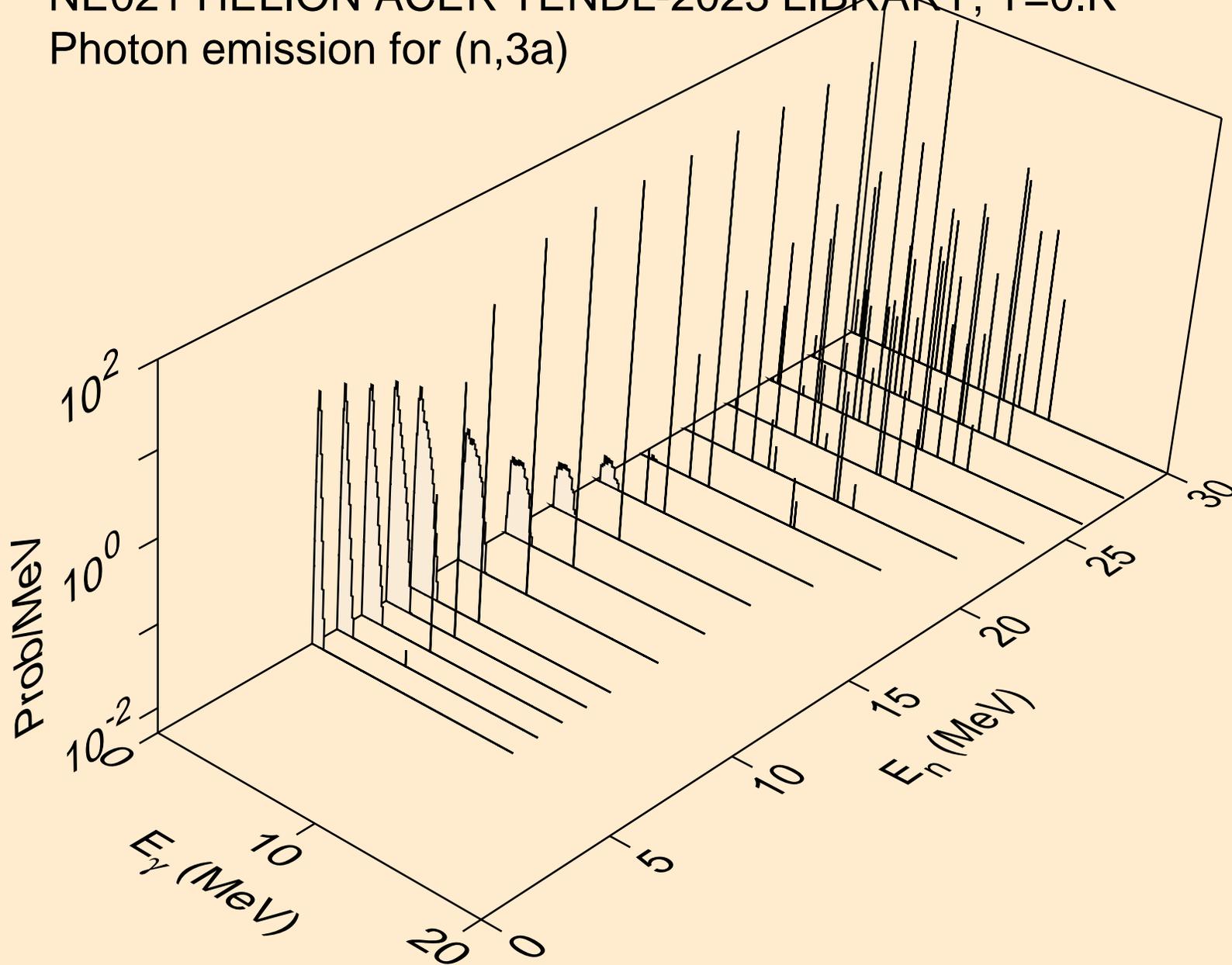Photon emission for inelastic

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
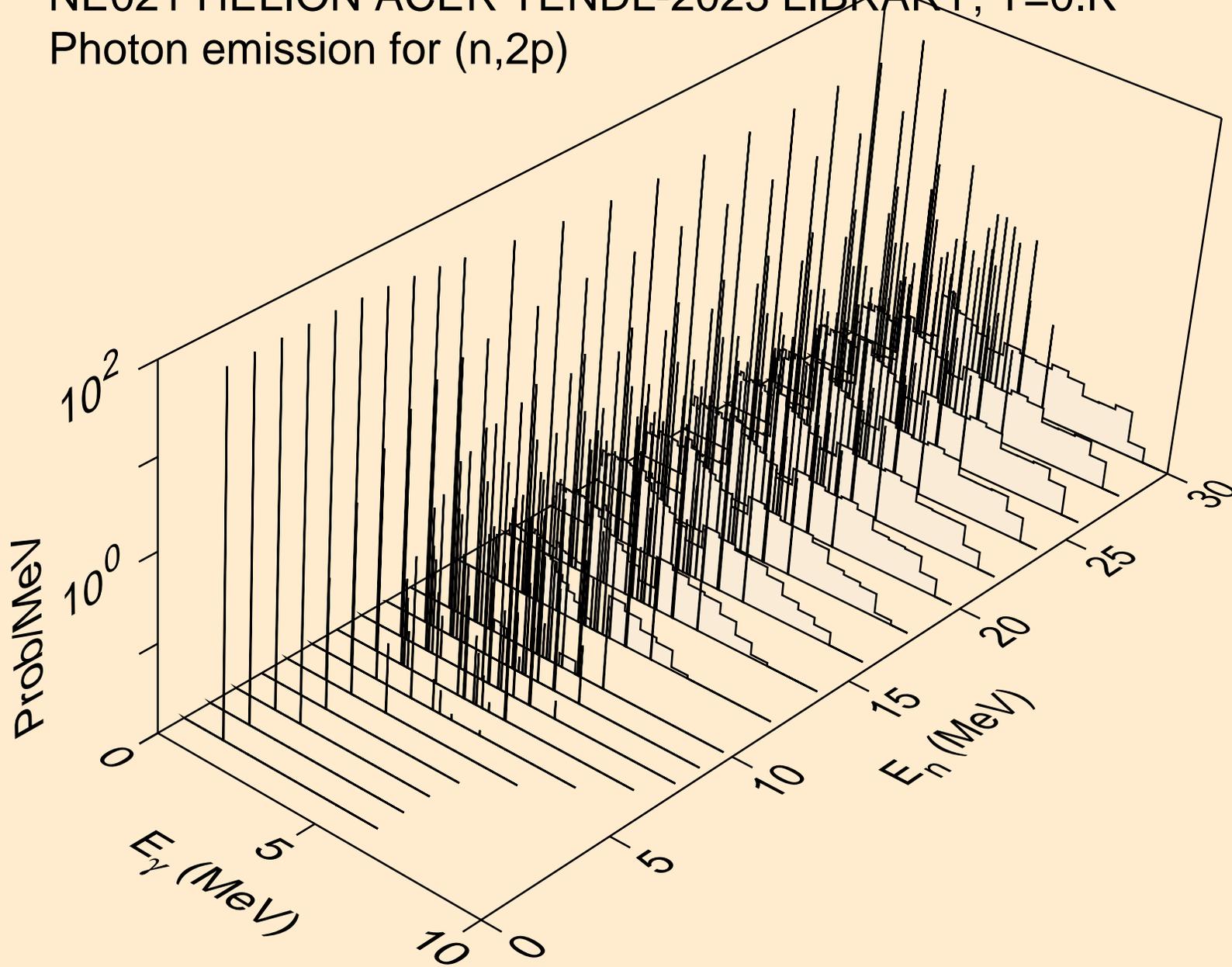Photon emission for (n,a)

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
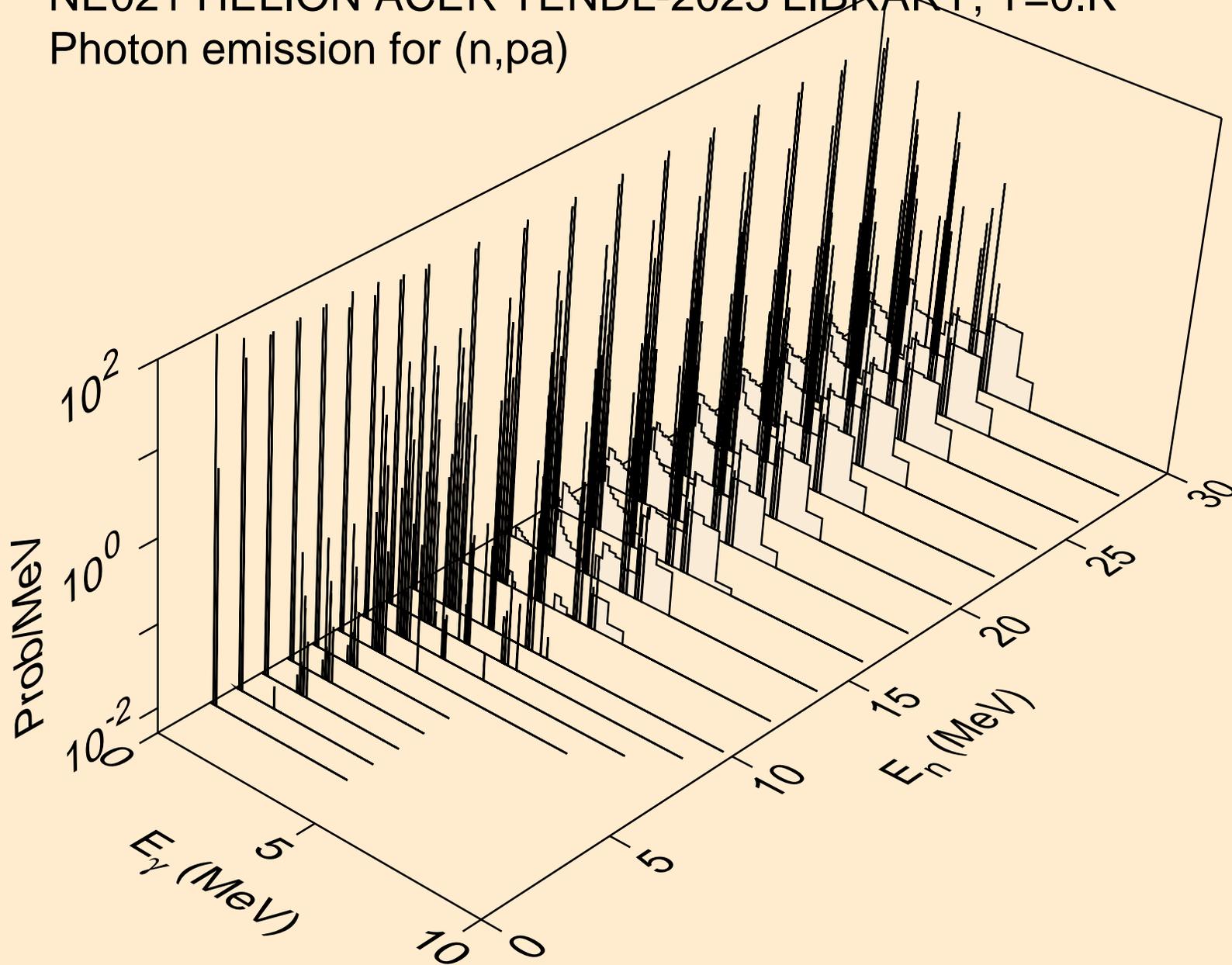Photon emission for (n,2a)

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,3a)

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2p)

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,pa)

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,t2a)

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
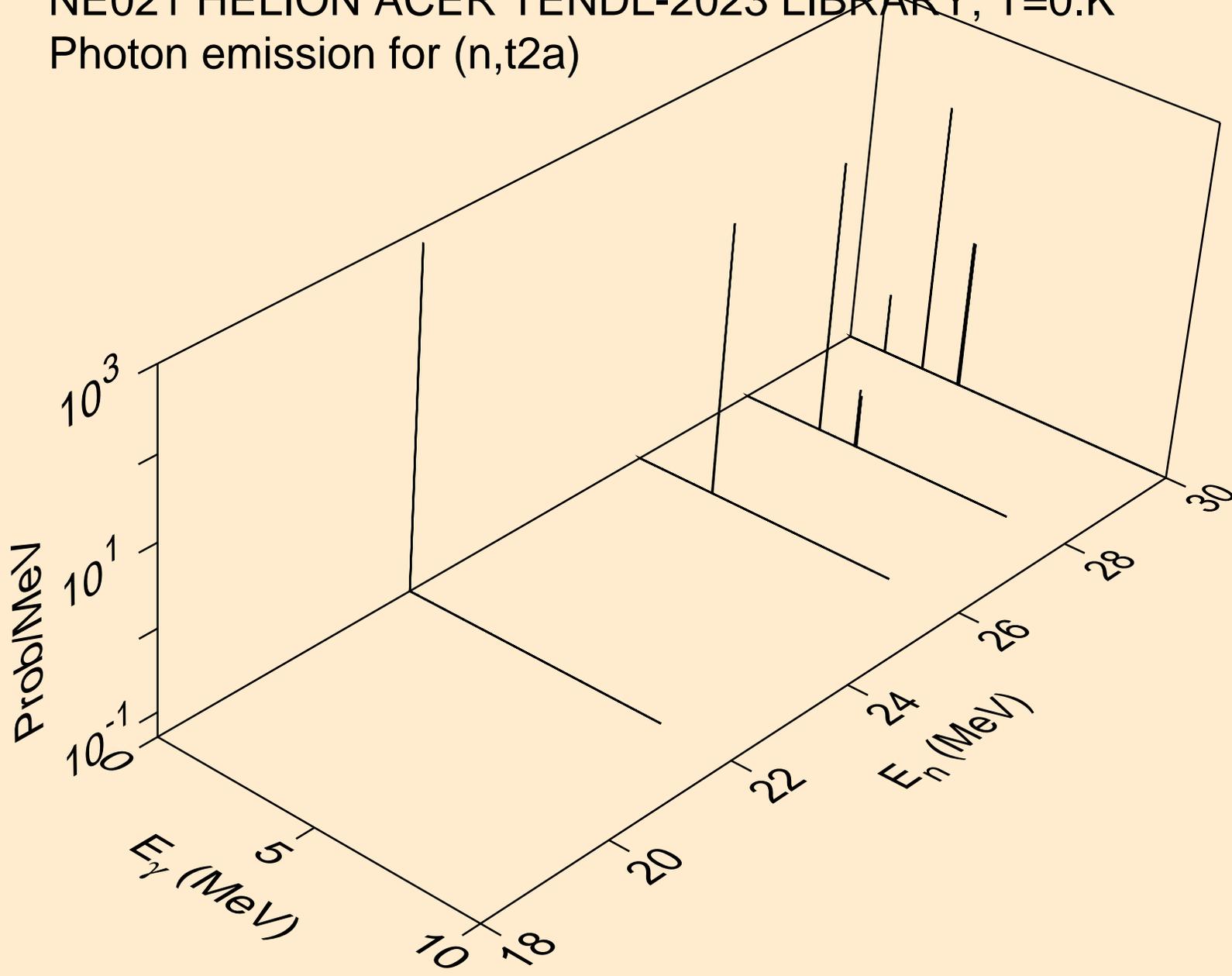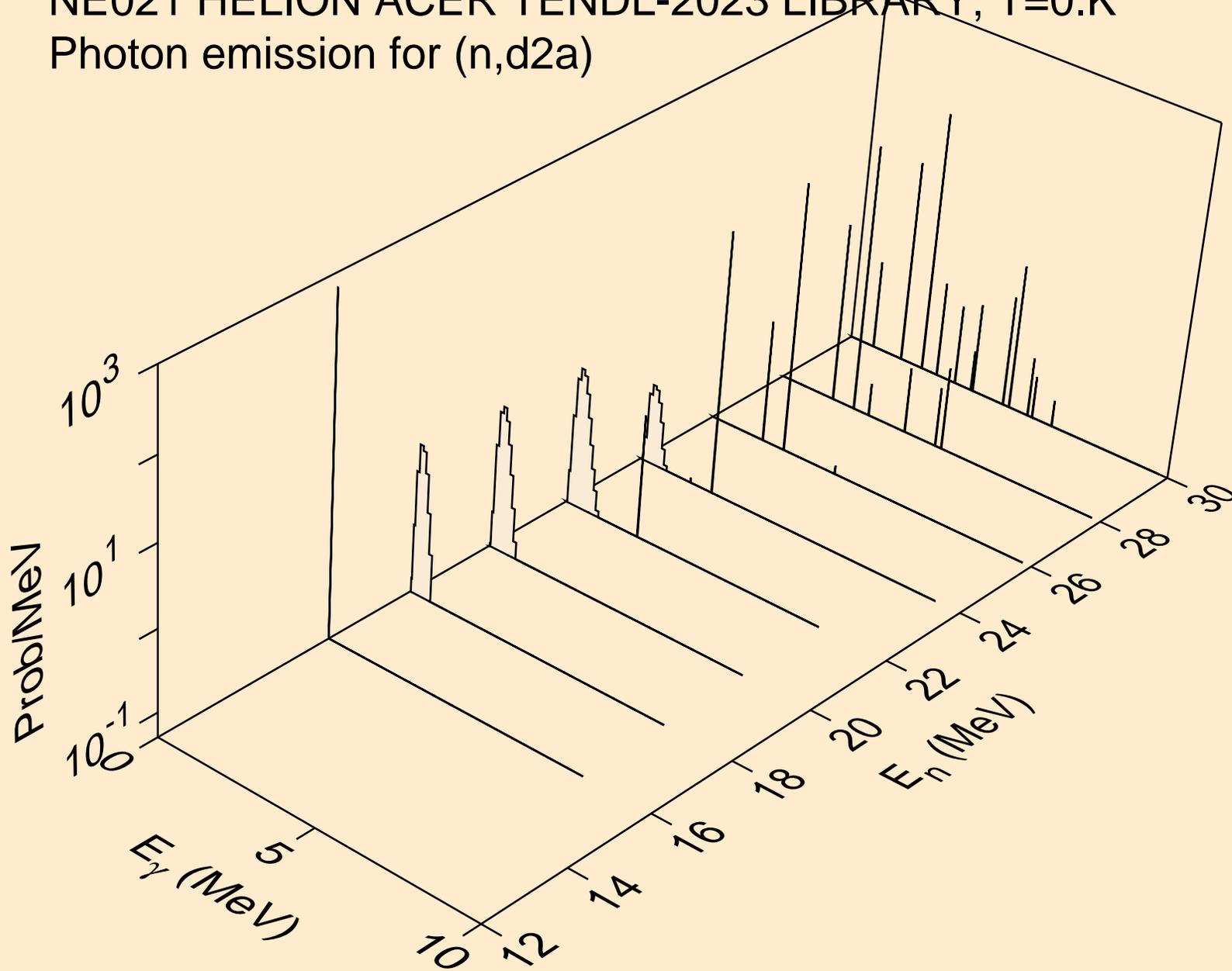Photon emission for (n,d2a)

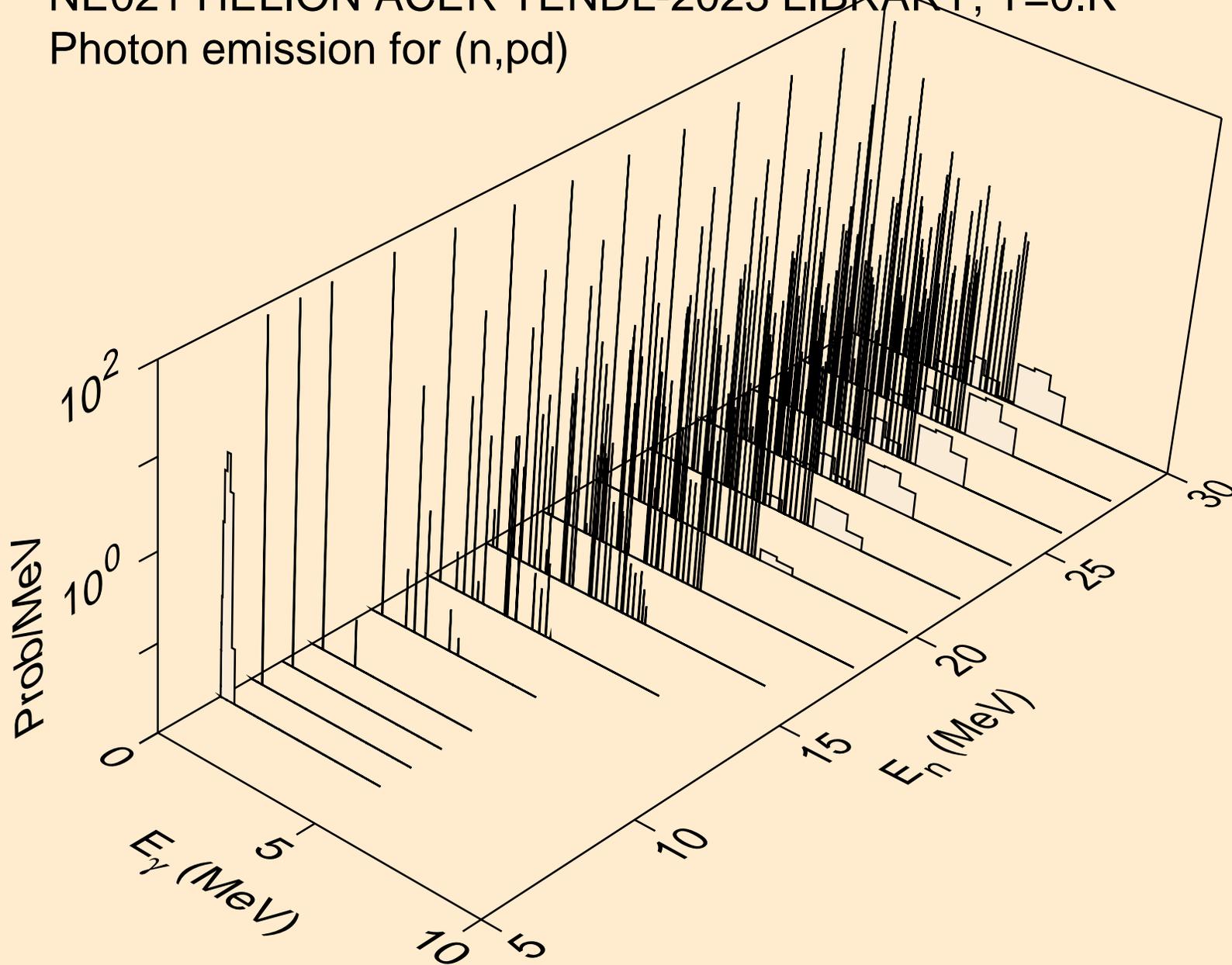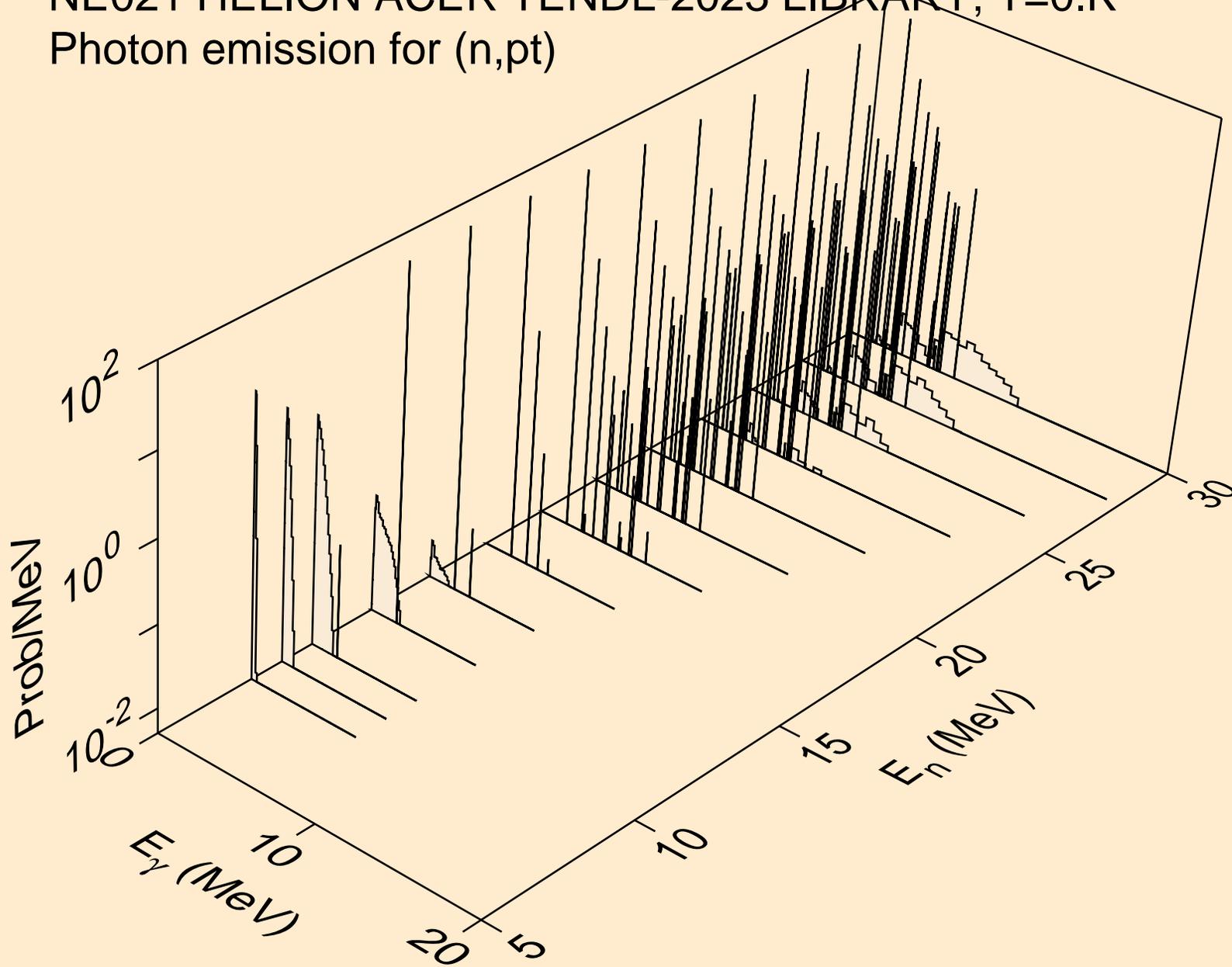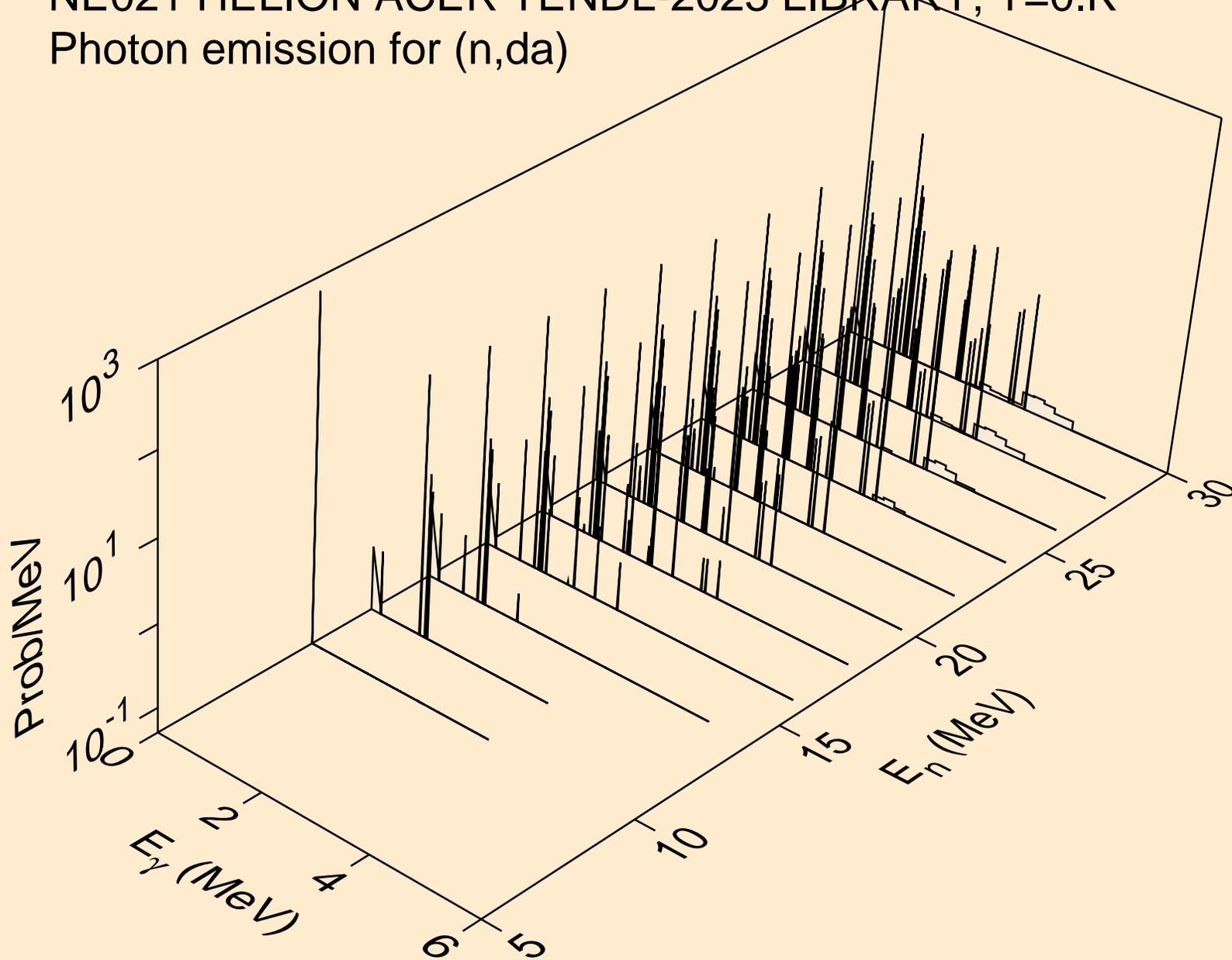NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
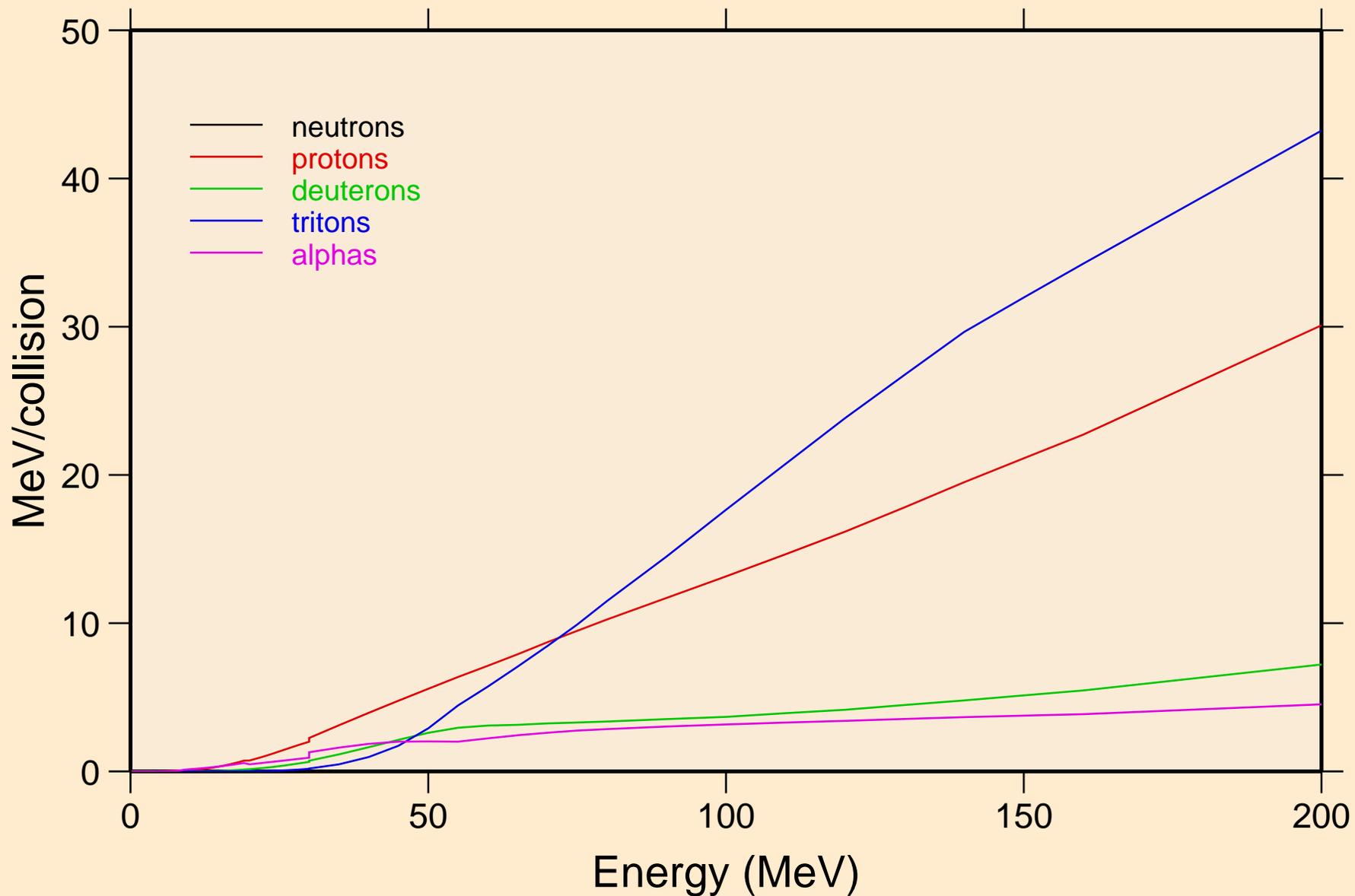Photon emission for (n,pd)

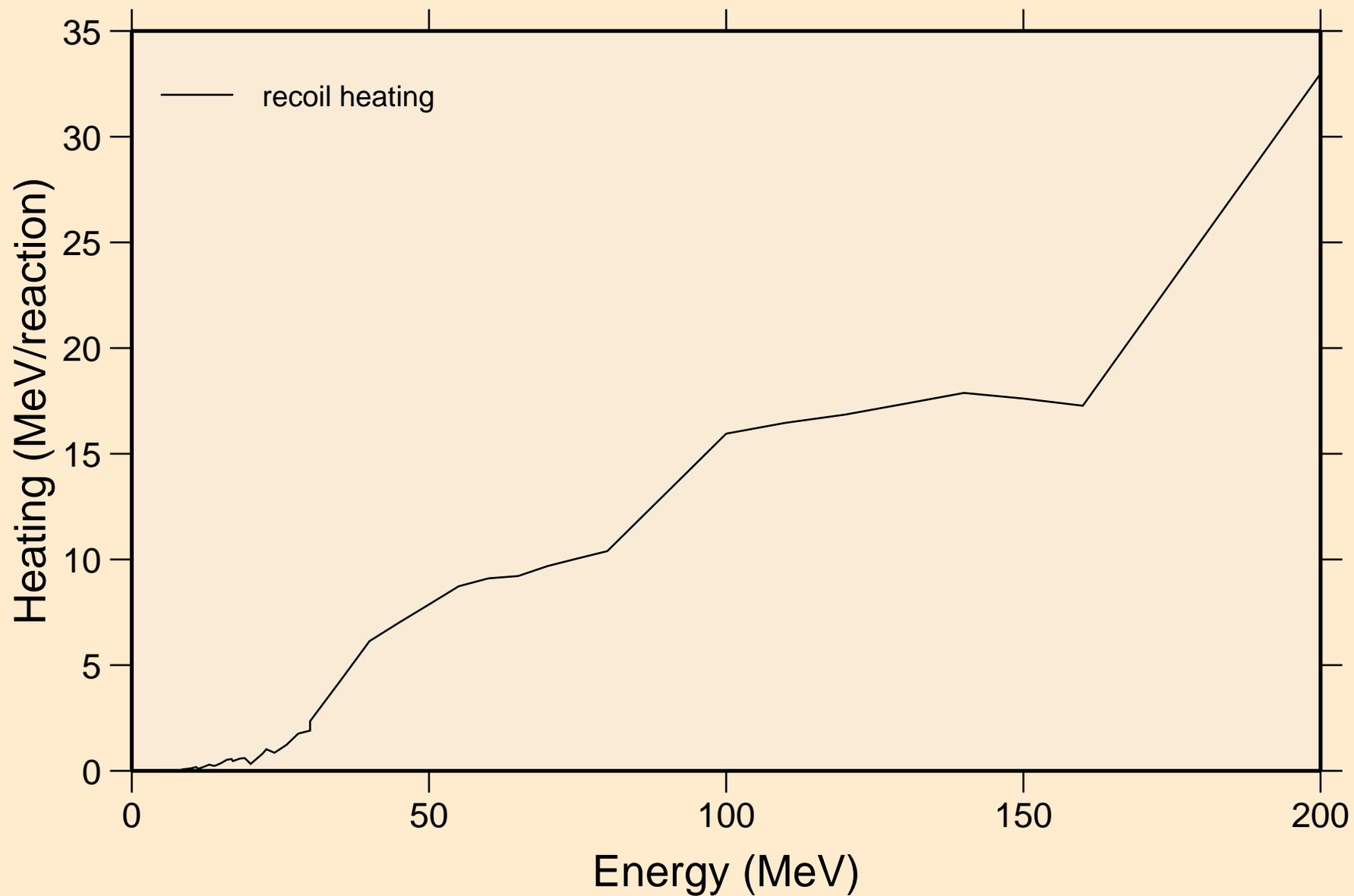NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,pt)

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
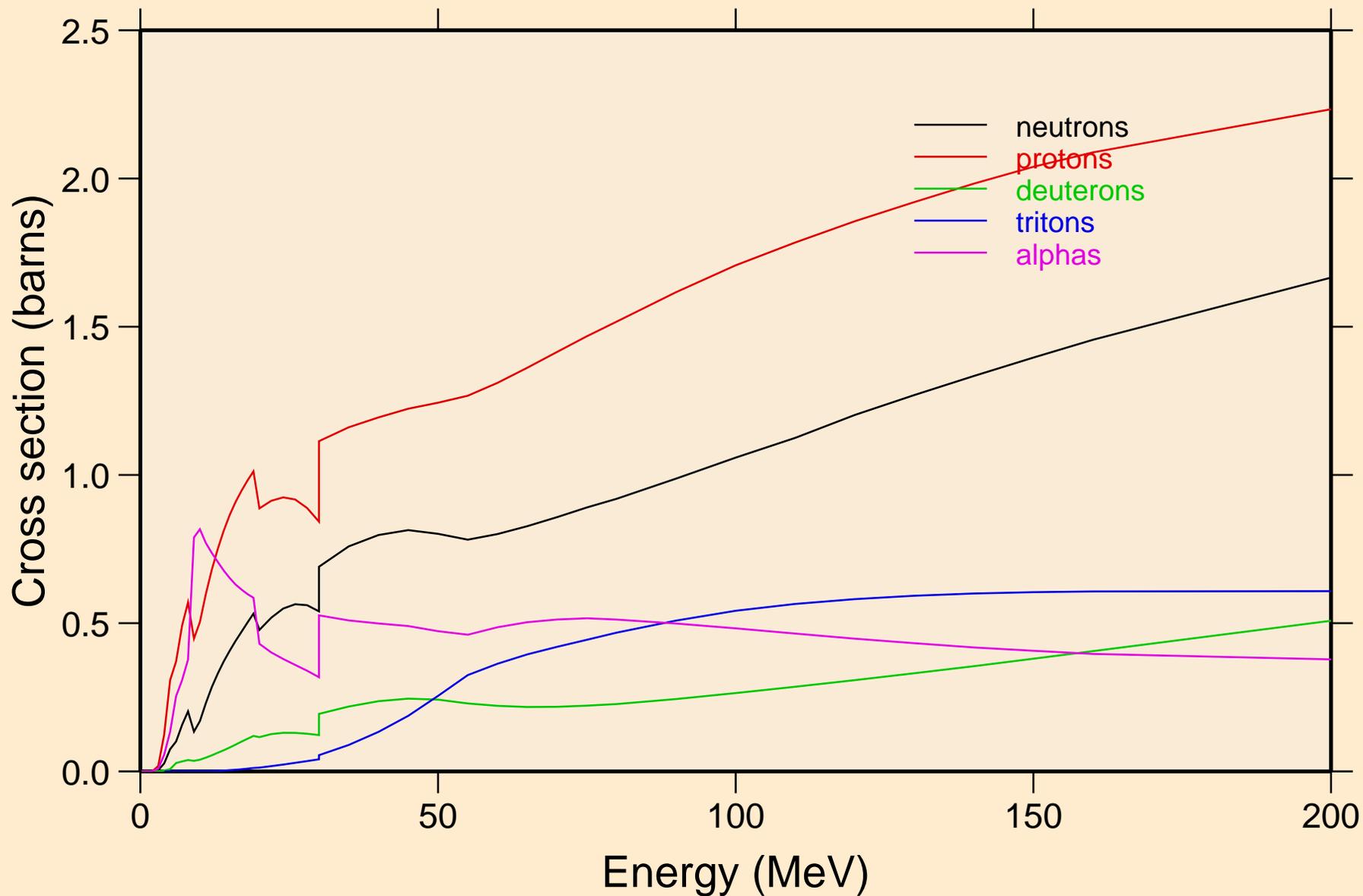Photon emission for (n,da)

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
Particle heating contributions

neutrons
protons
deuterons
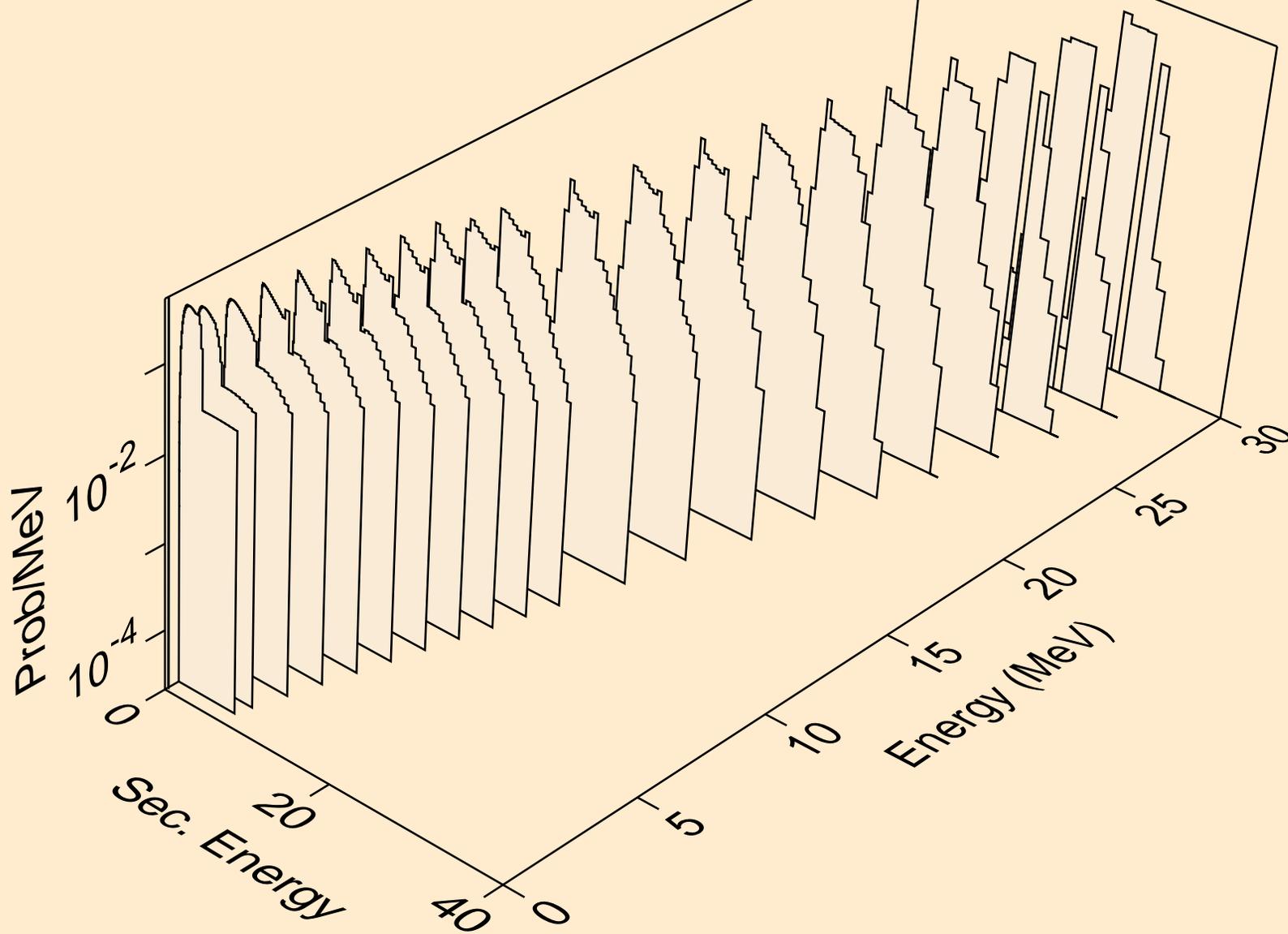tritons
alphas

MeV/collision

Energy (MeV)

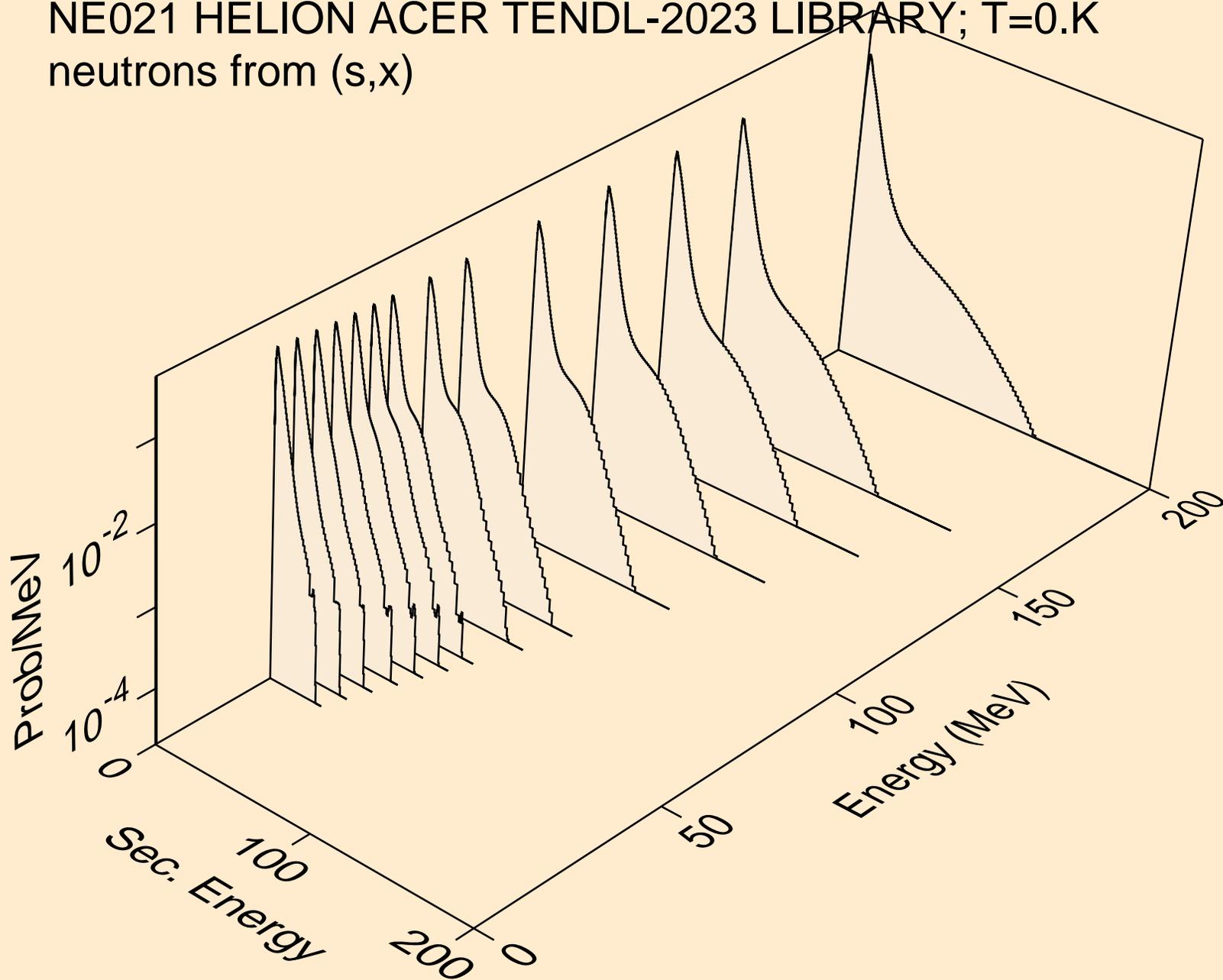NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
Recoil Heating

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
Particle production cross sections

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (s,n)

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (s,x)

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (s,2n)

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (s,n*)a

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
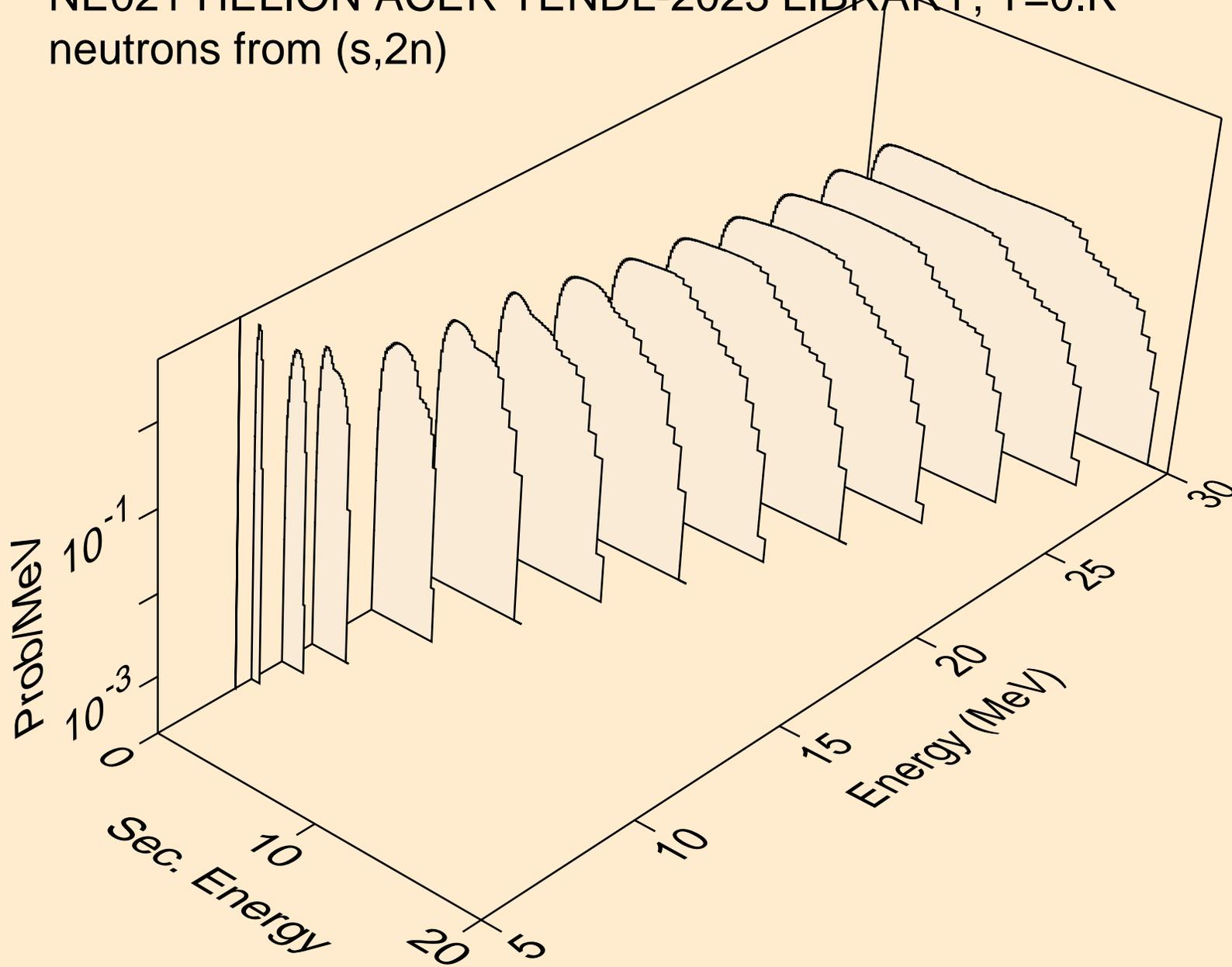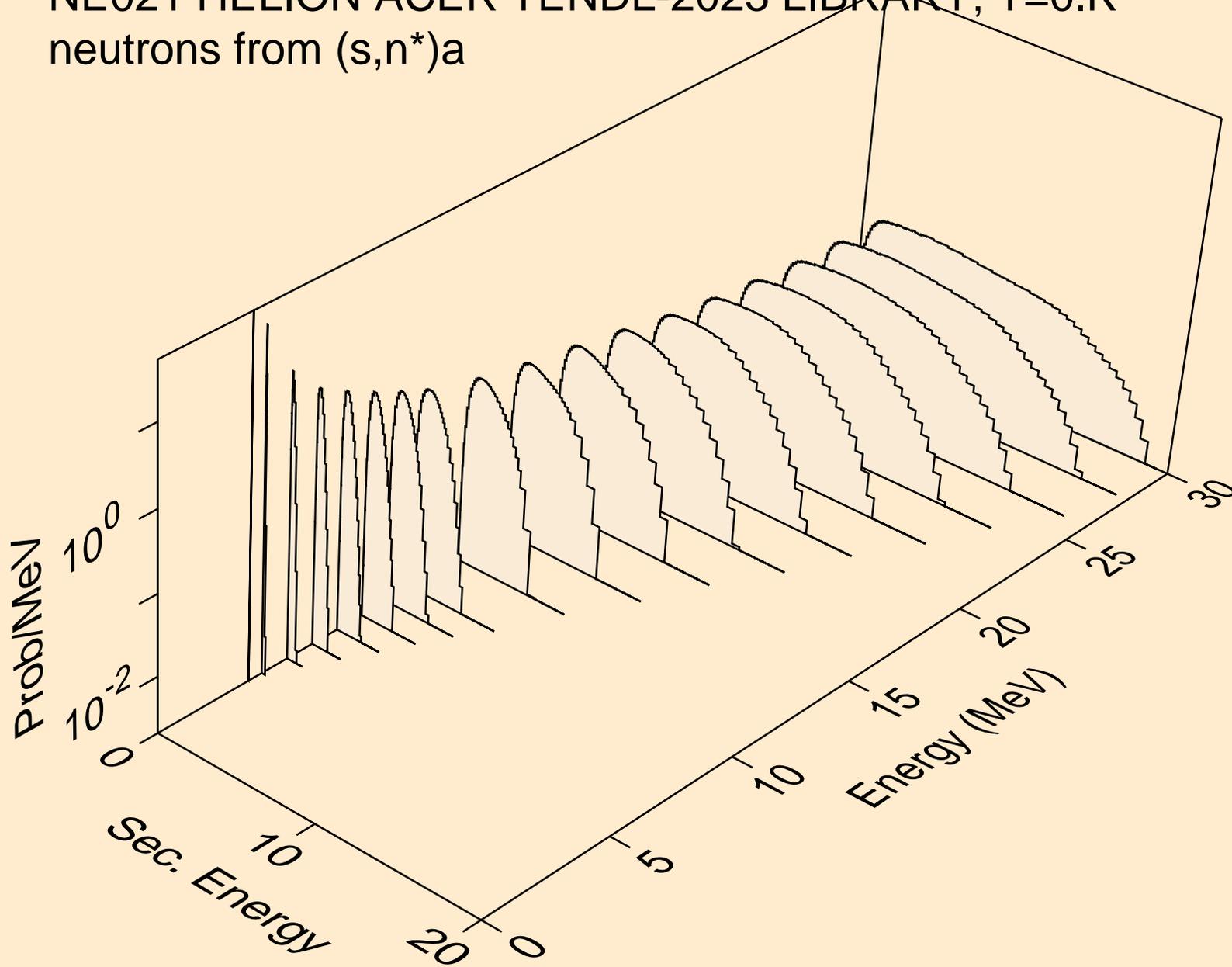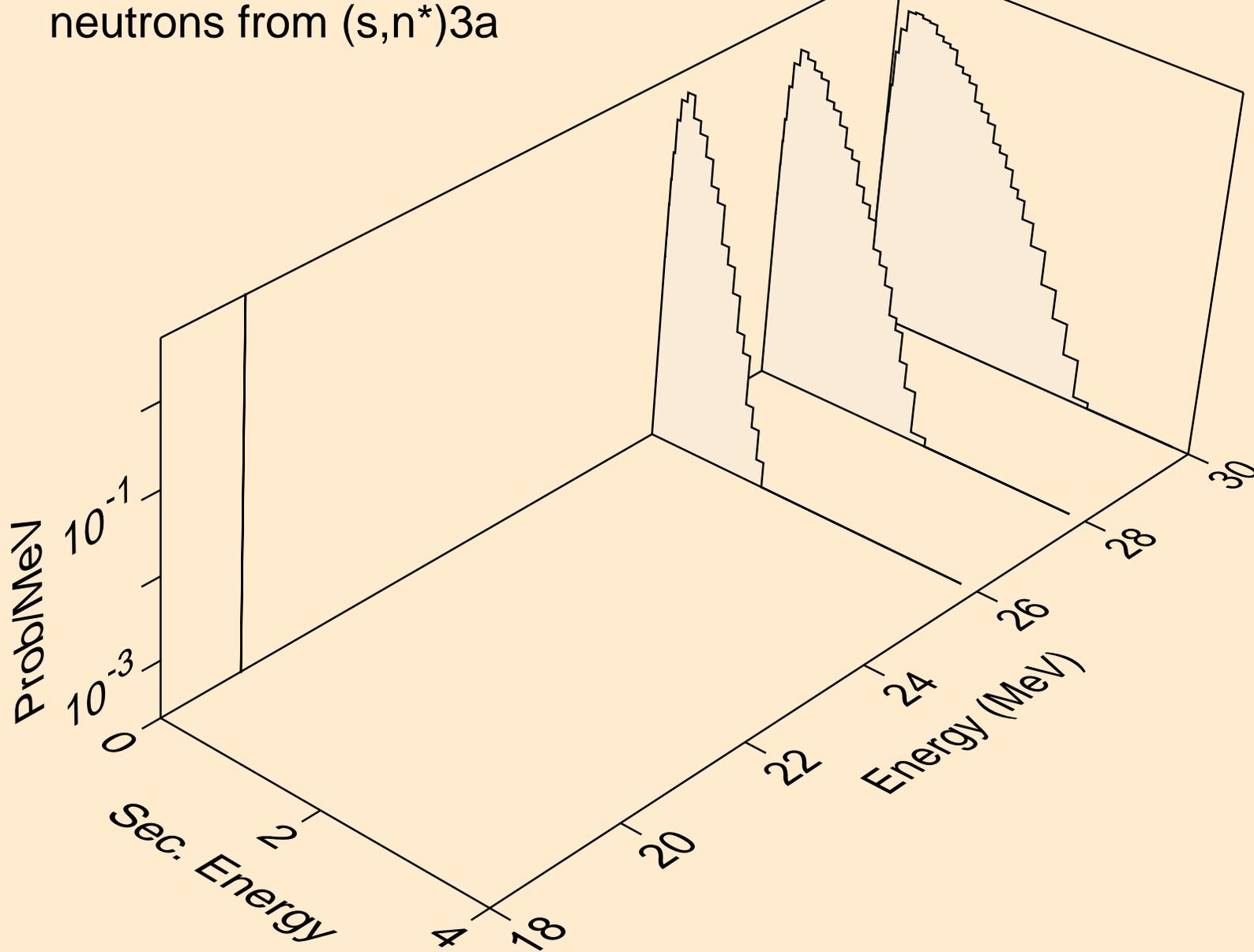neutrons from (s,n*)3a

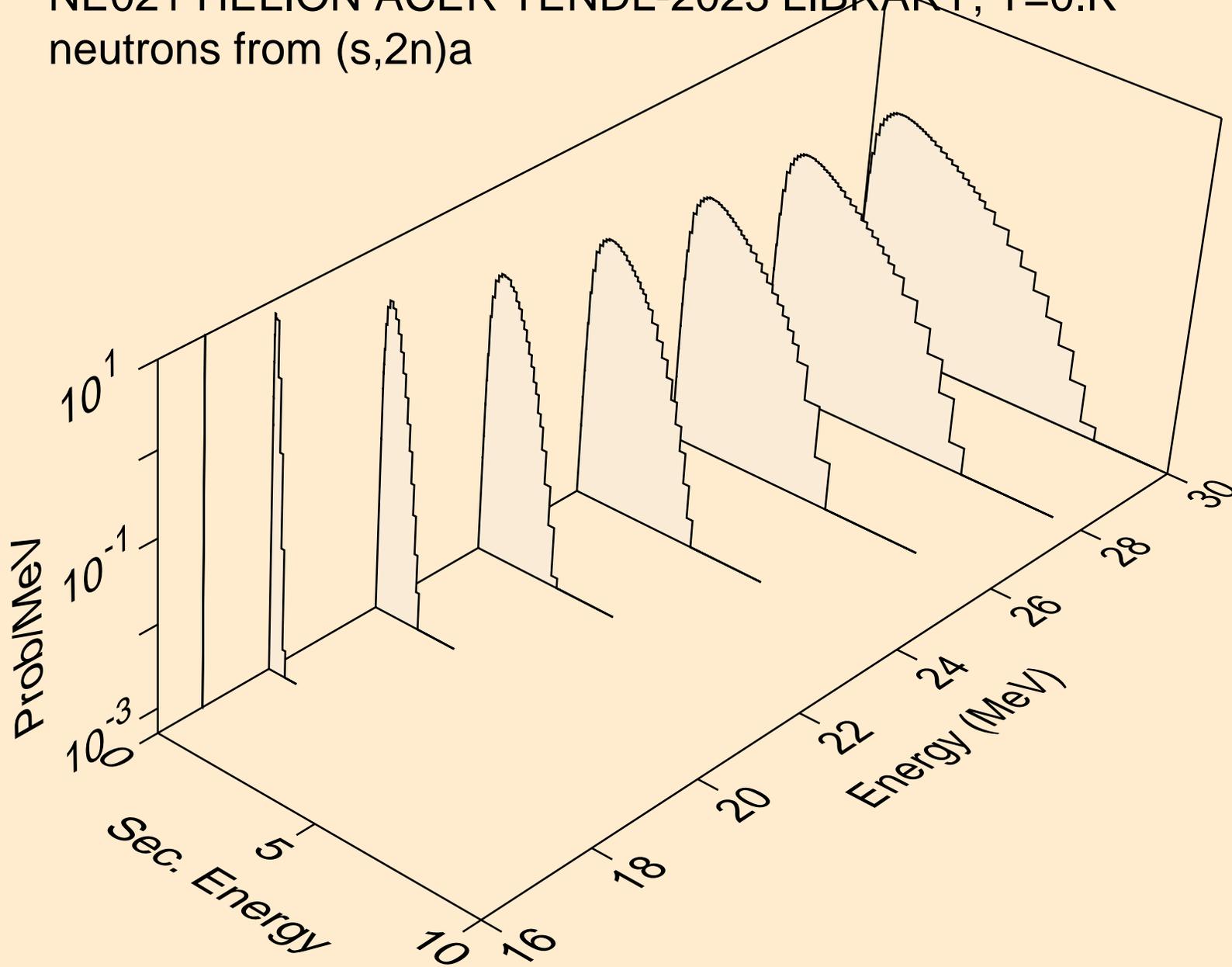NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (s,2n)a

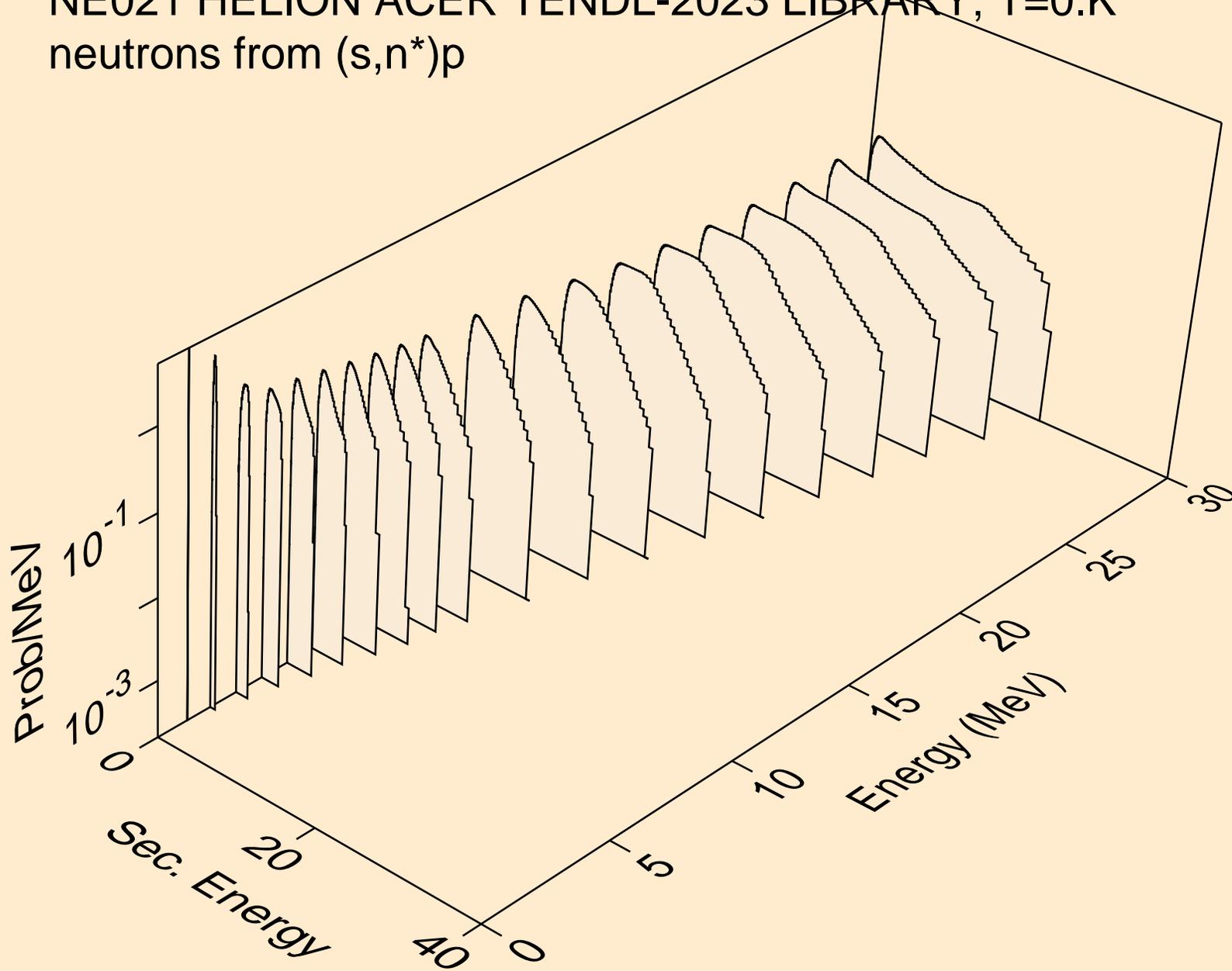NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (s,n*)p

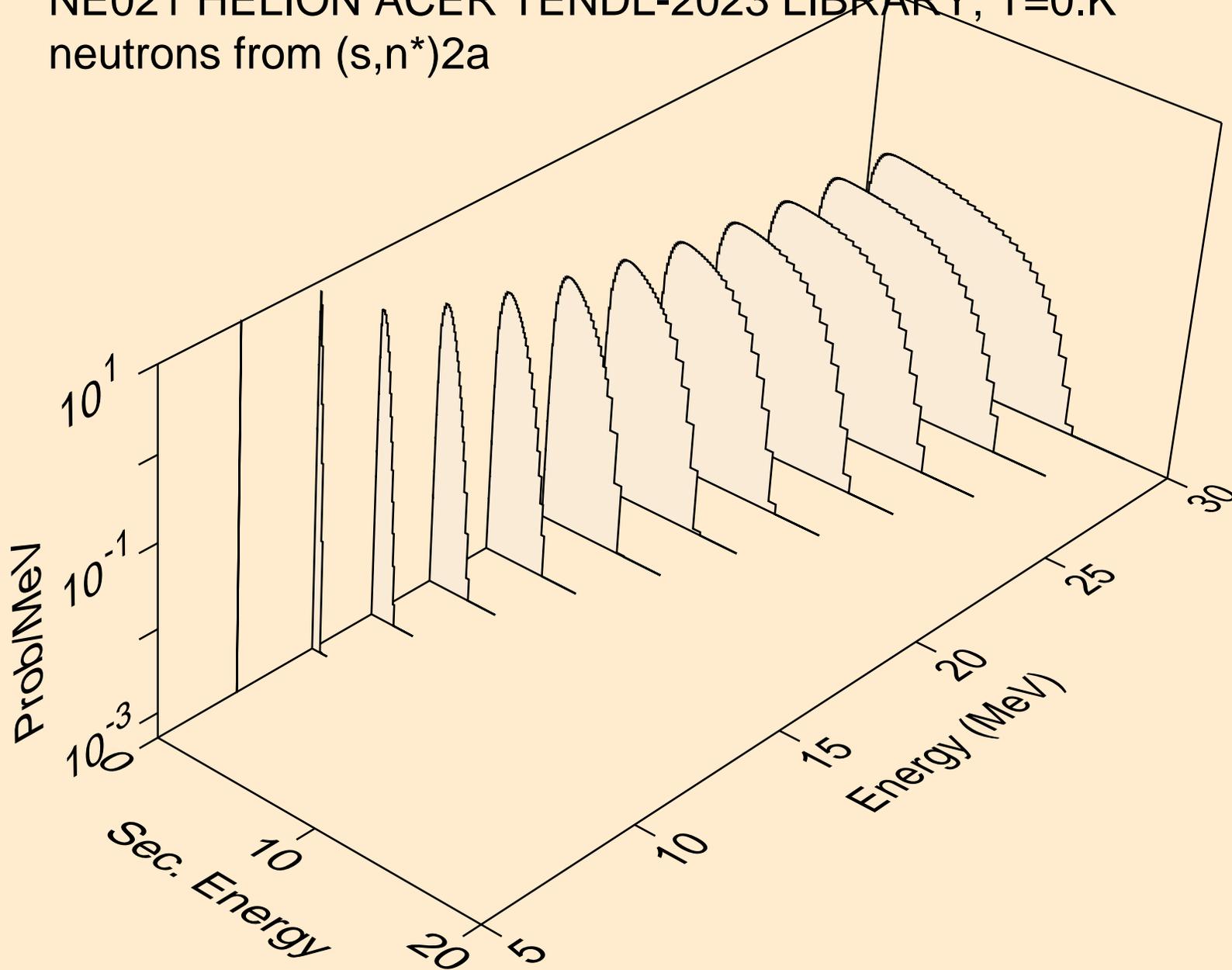NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (s,n*)2a

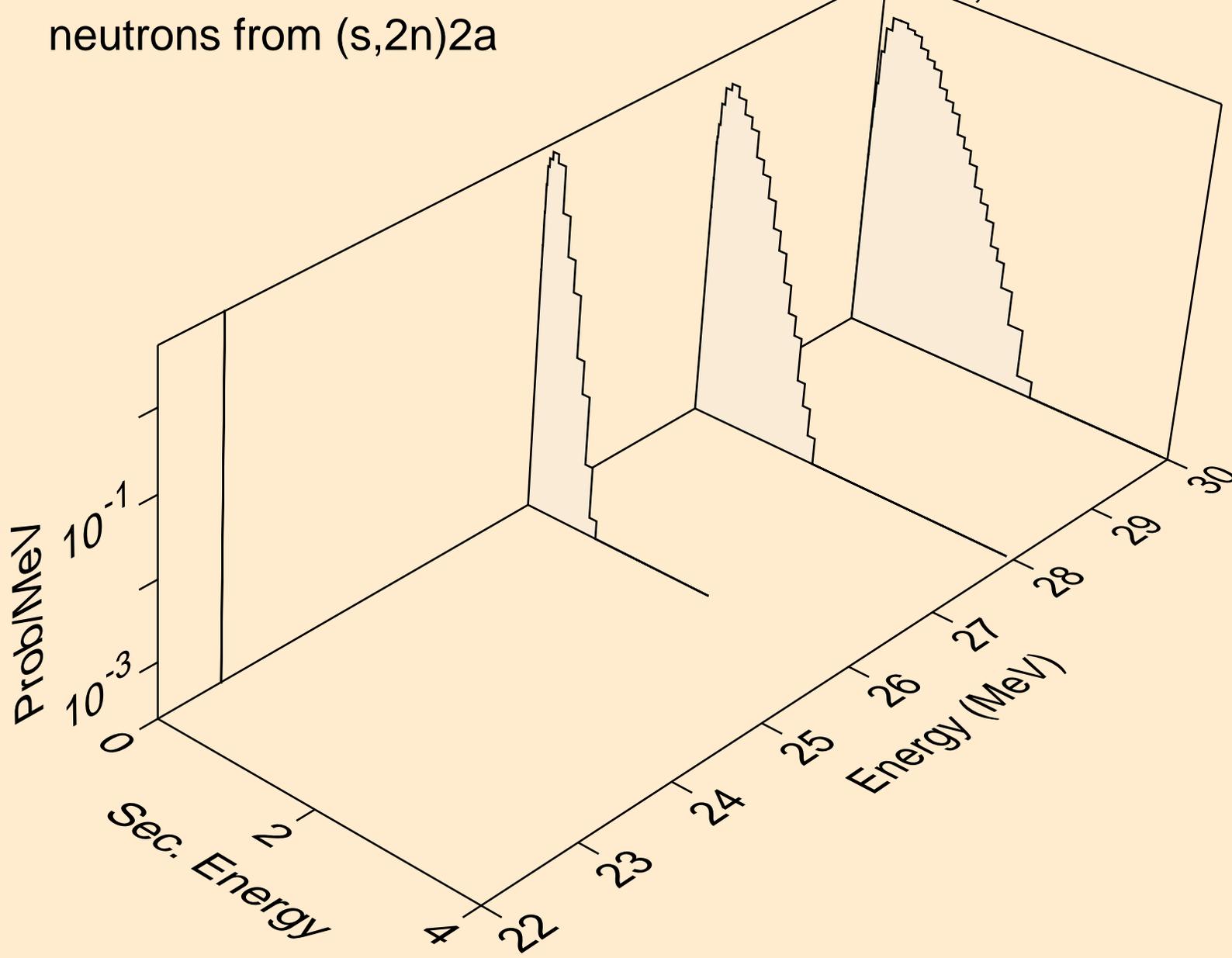NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (s,2n)2a

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (s,n*)d

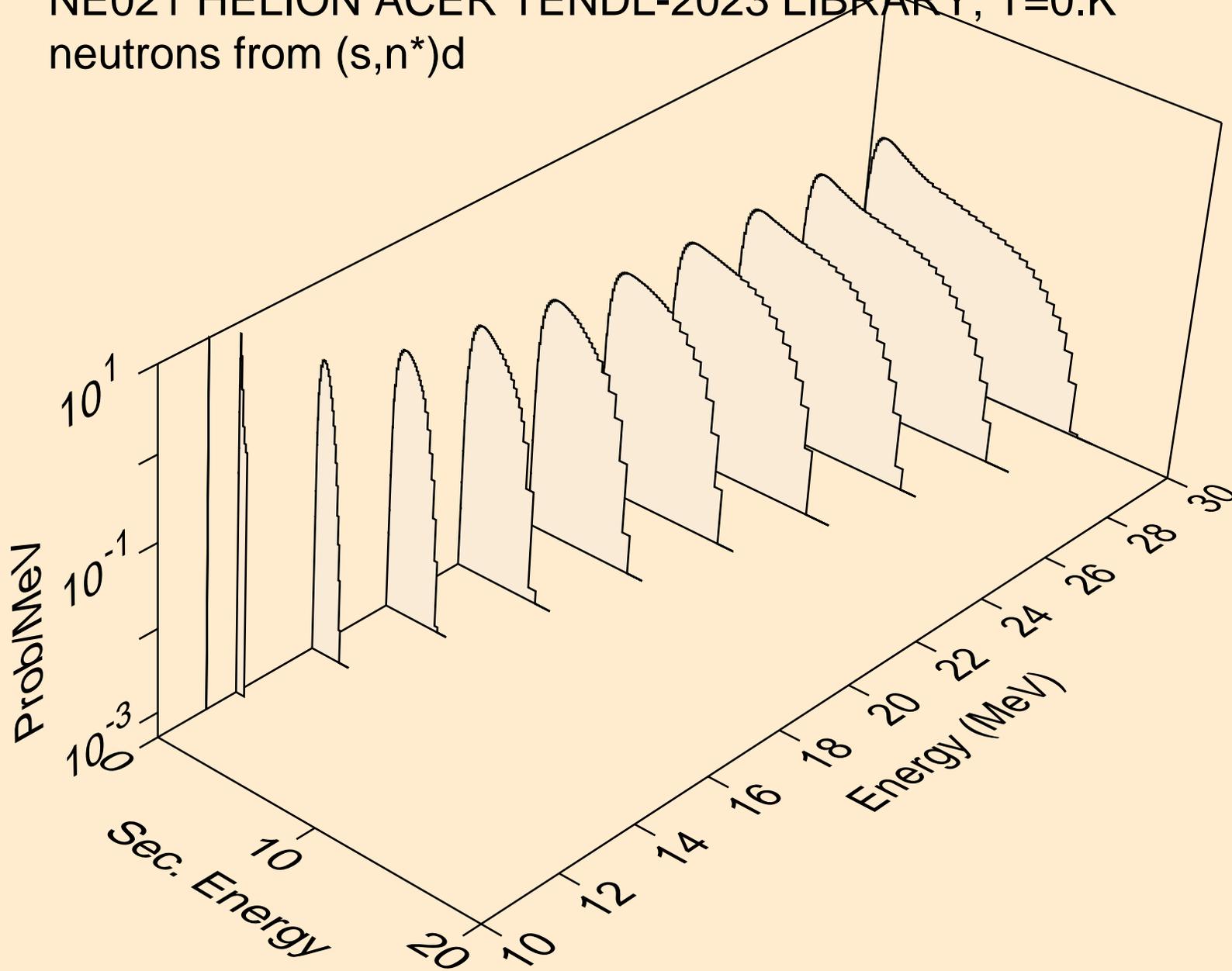NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (s,n*)t

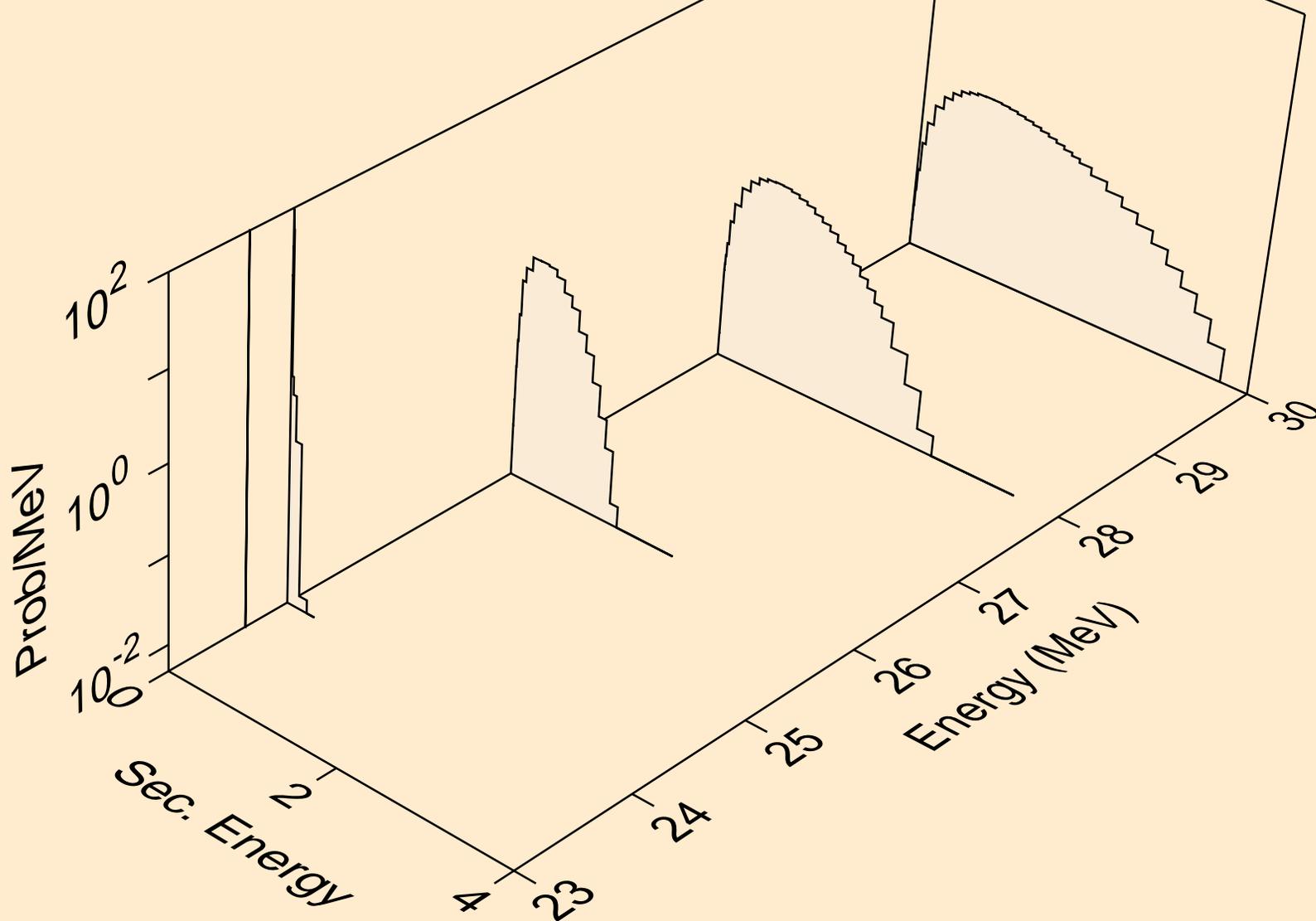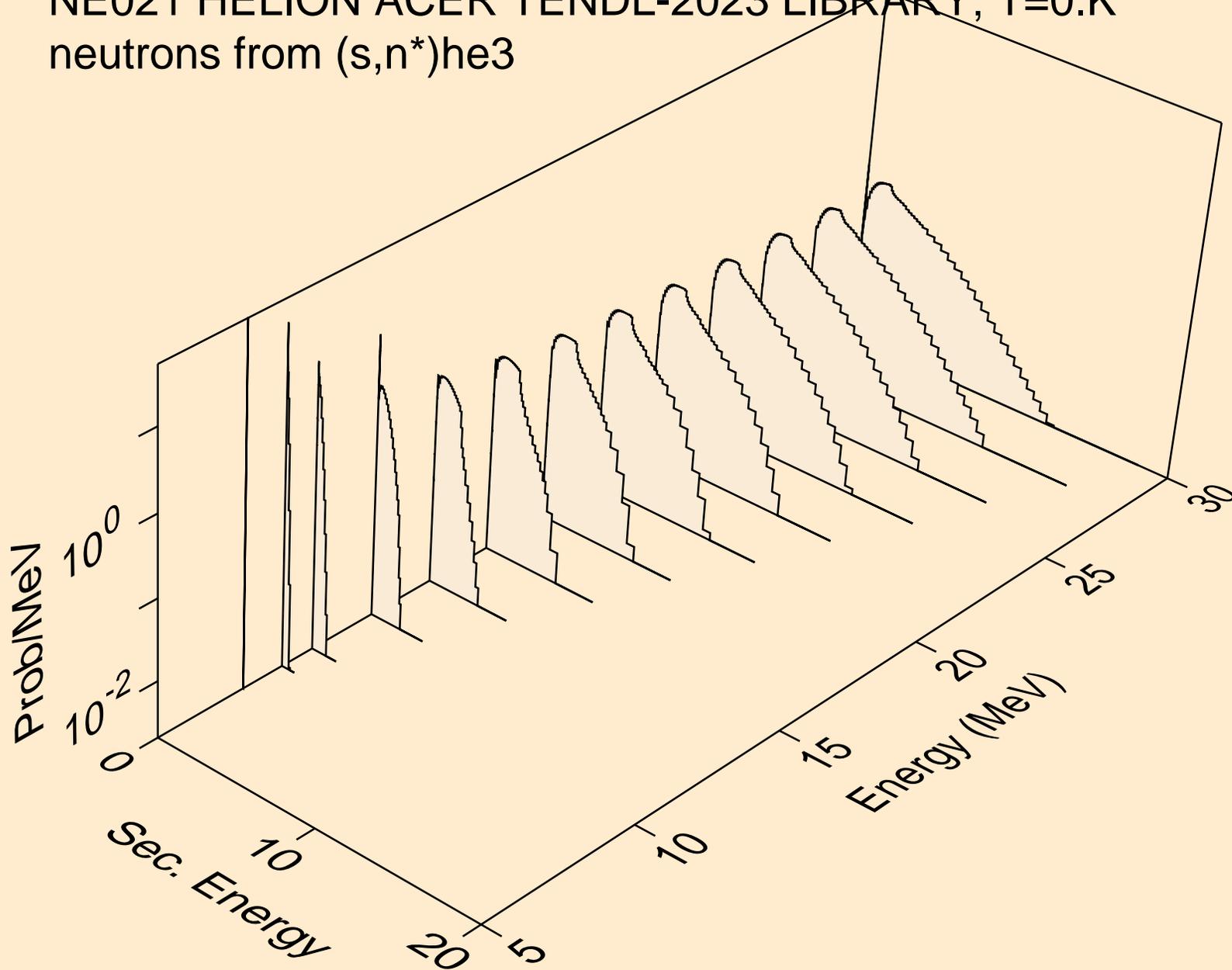NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (s,n*)he3
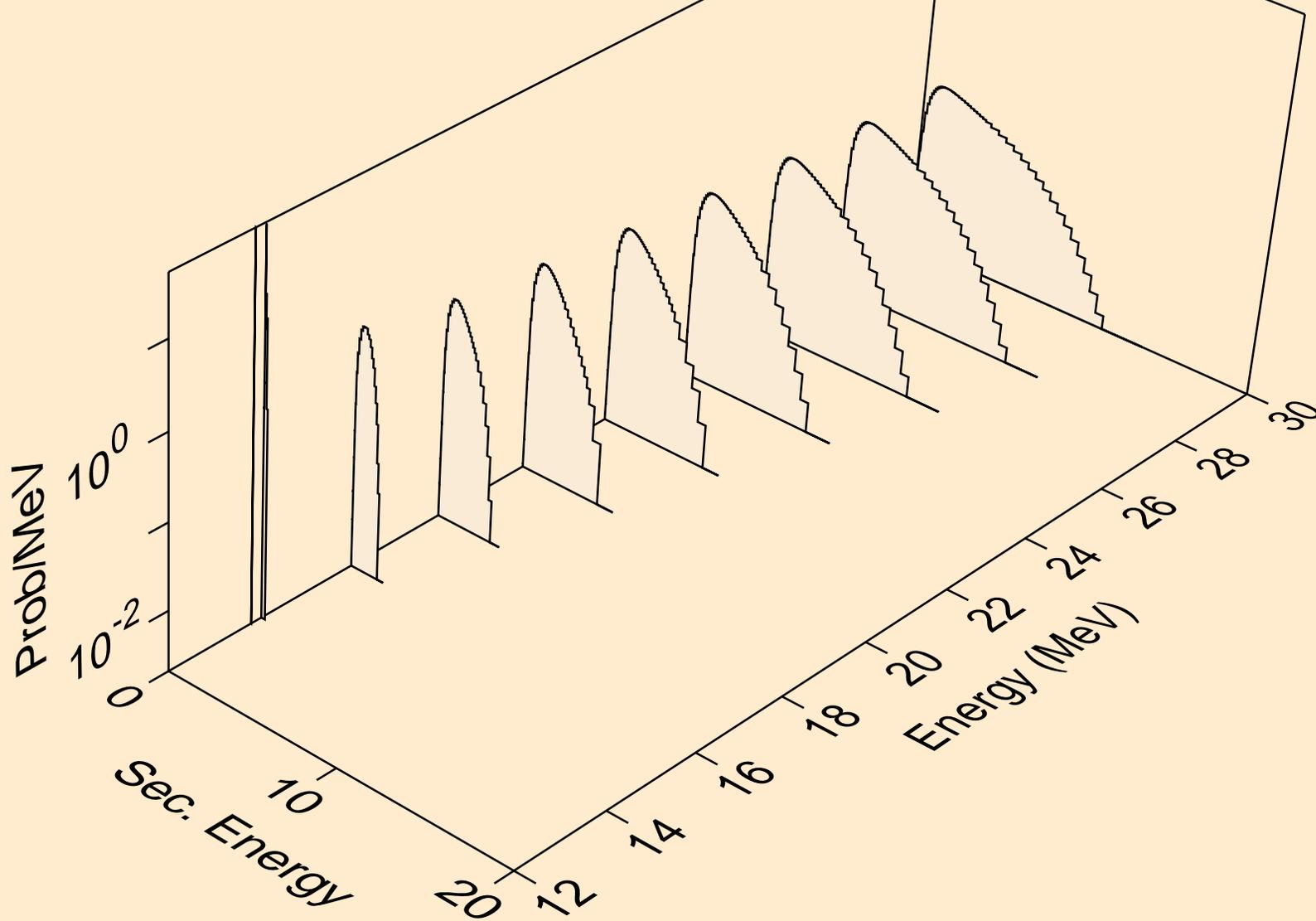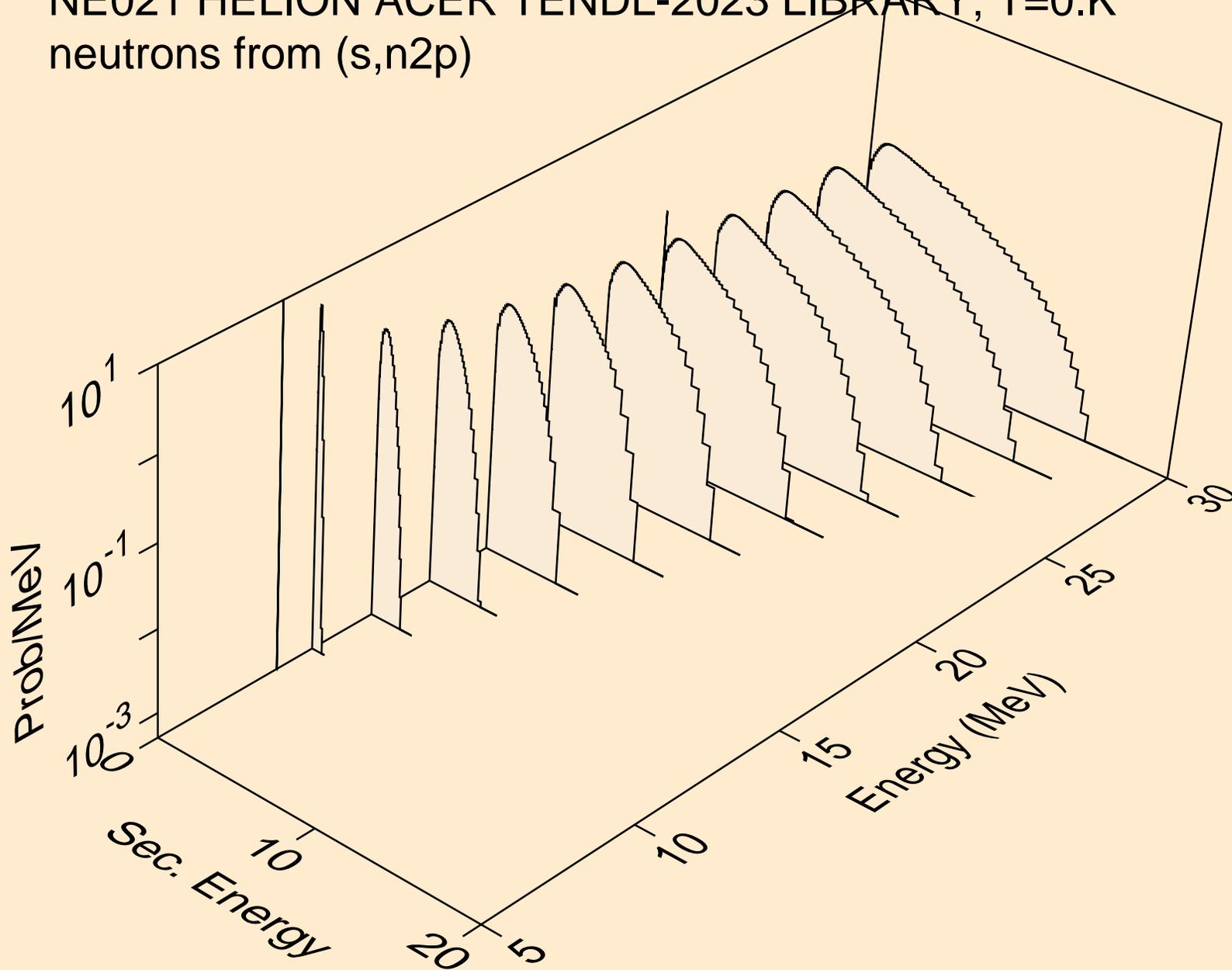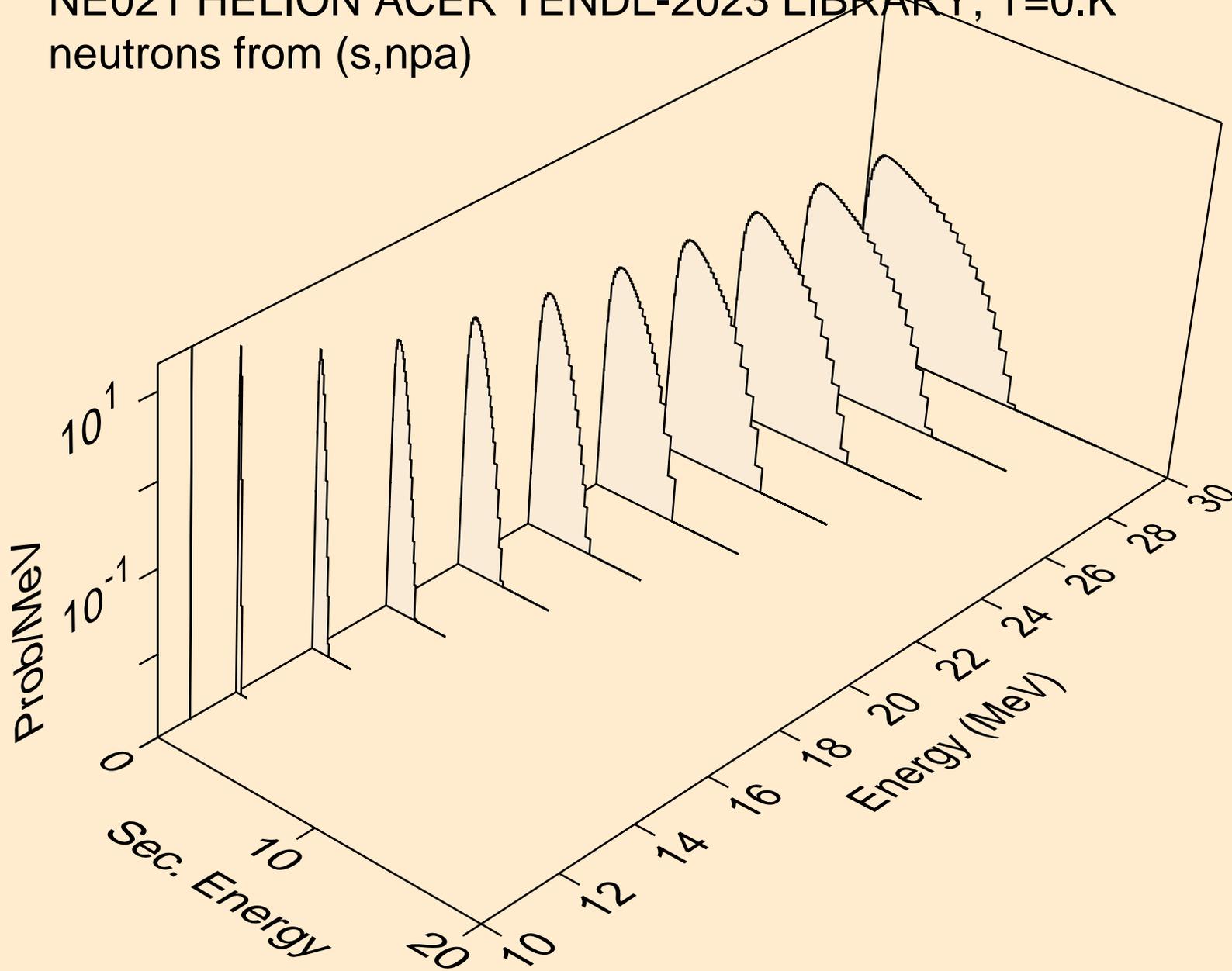
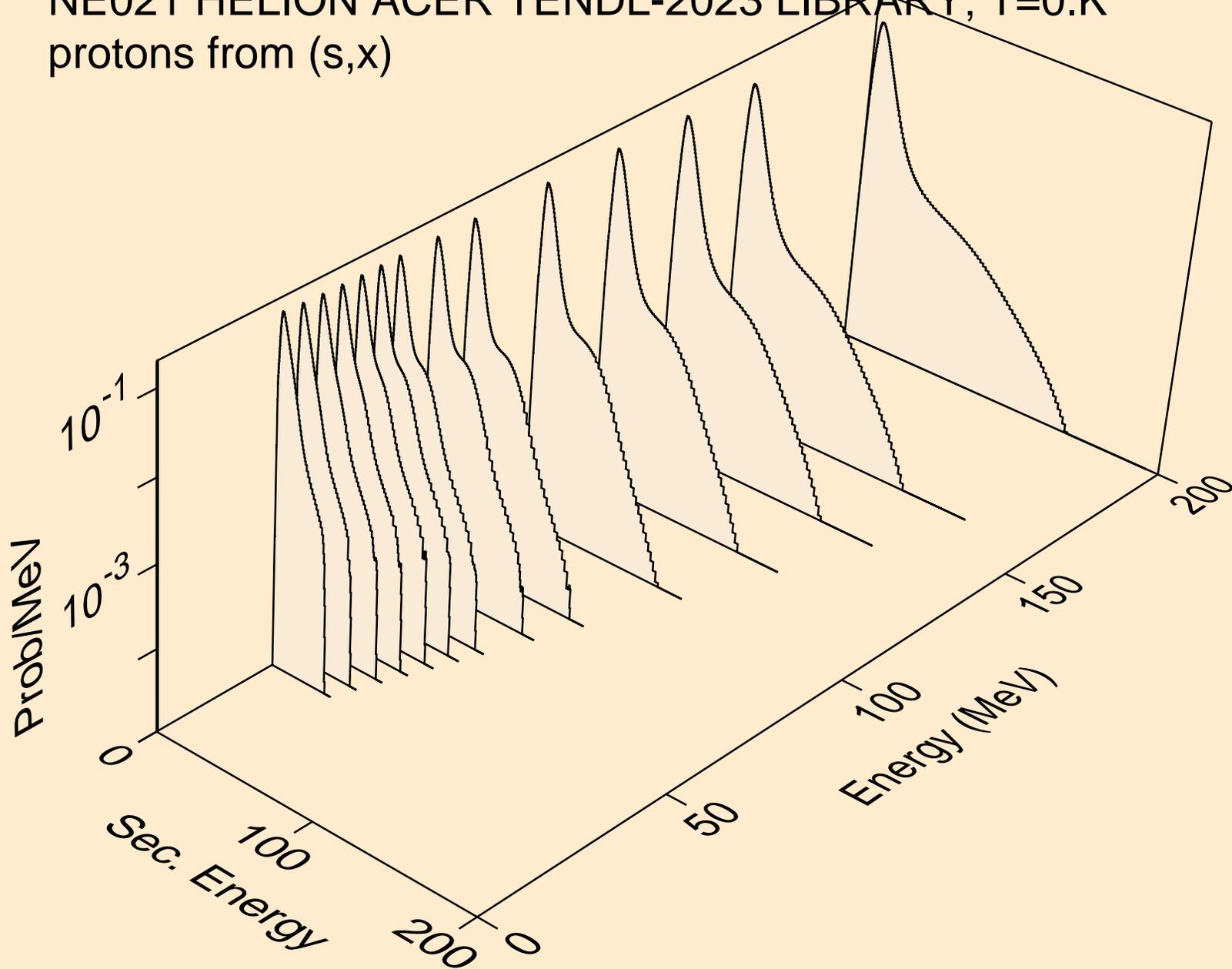NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (s,2np)

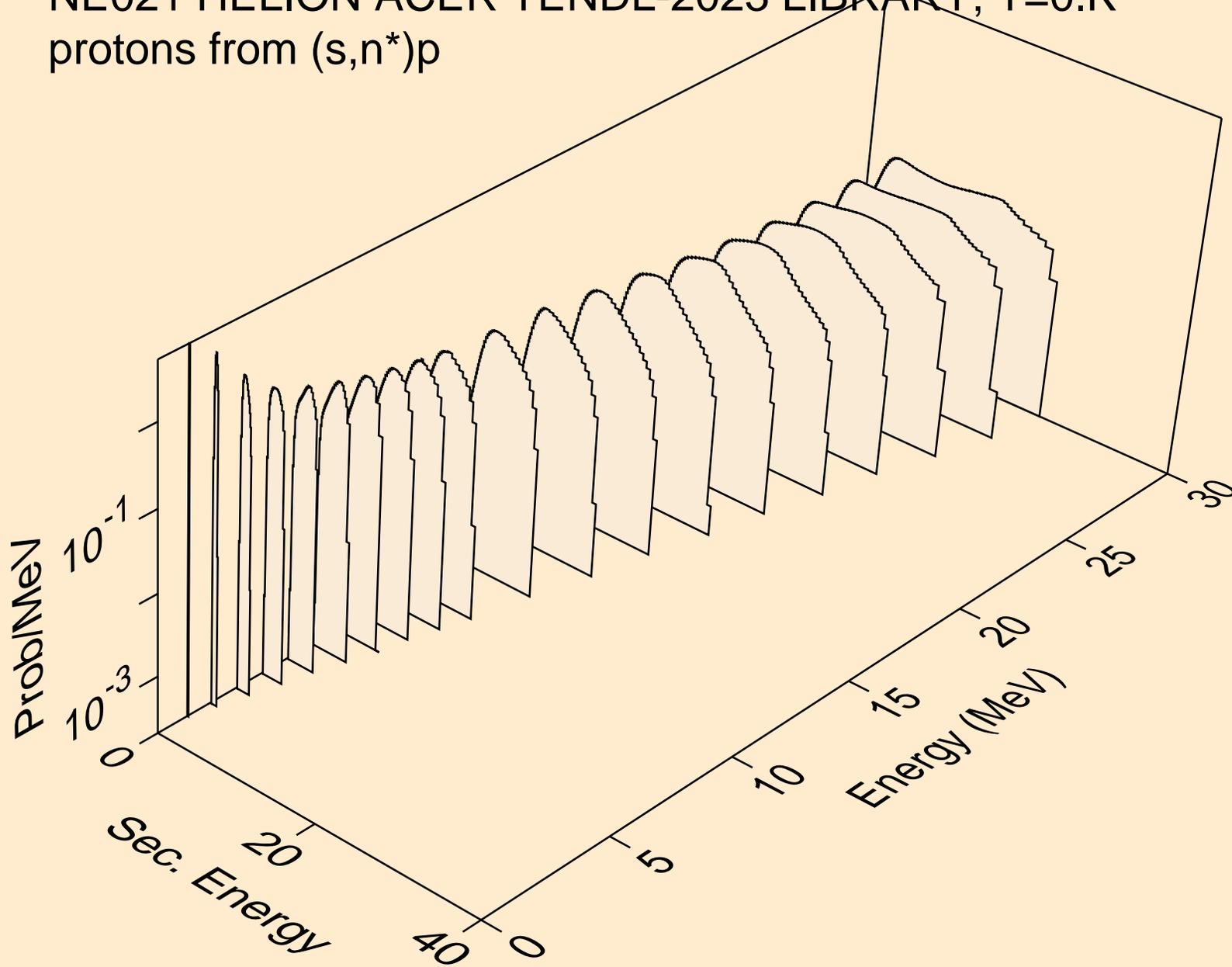NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (s,n2p)

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
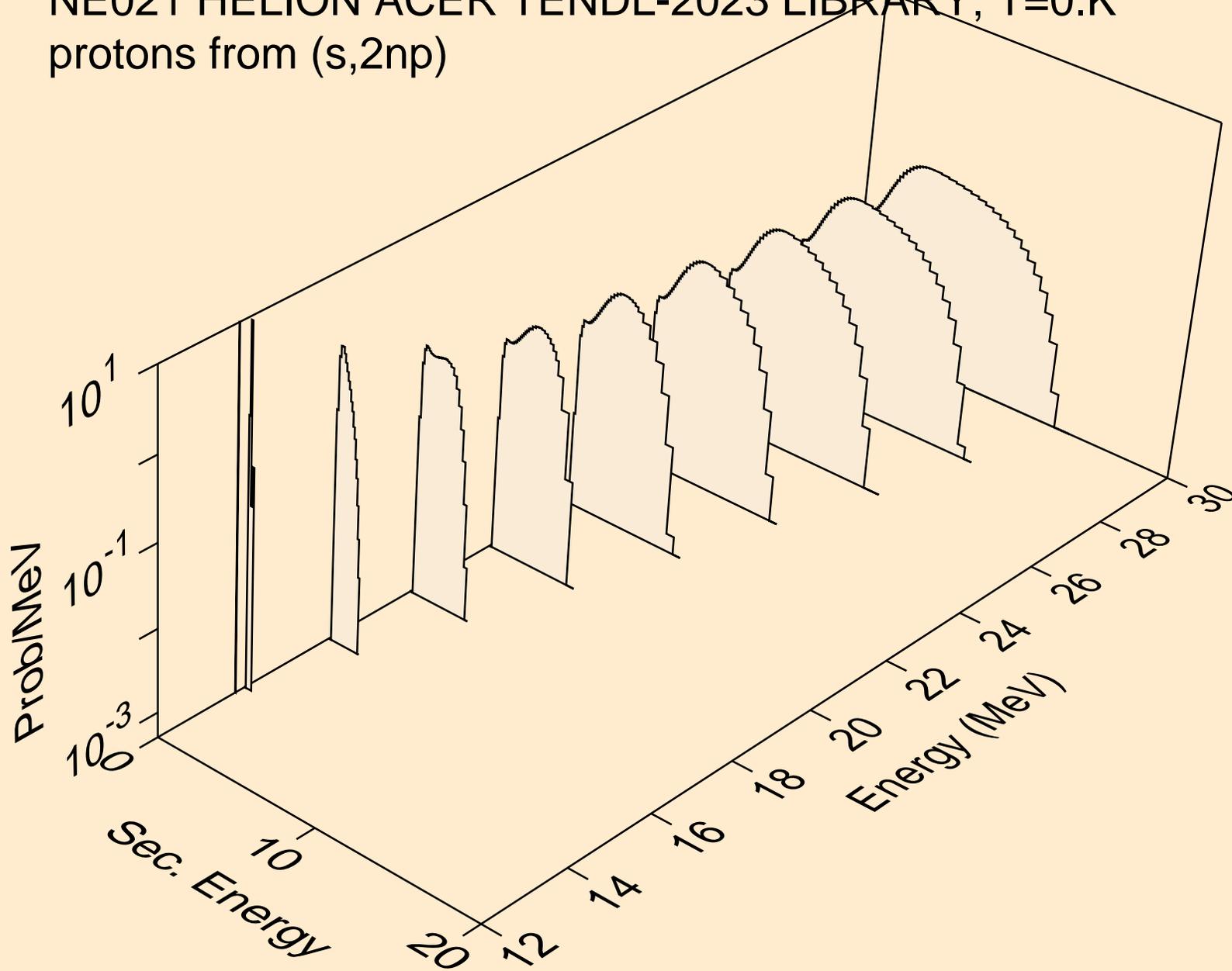neutrons from (s,npa)

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
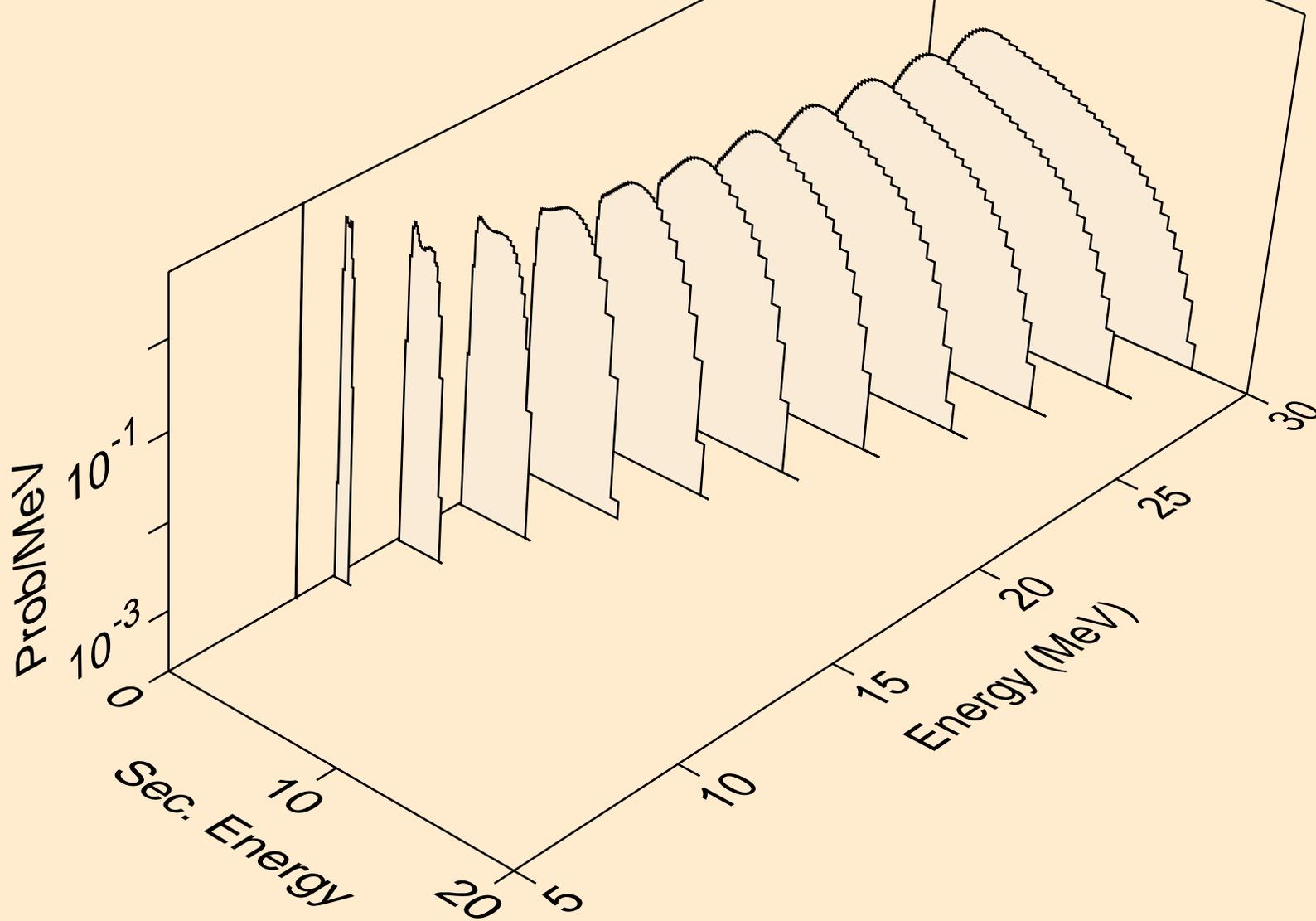protons from (s,x)

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
protons from (s,n*)p
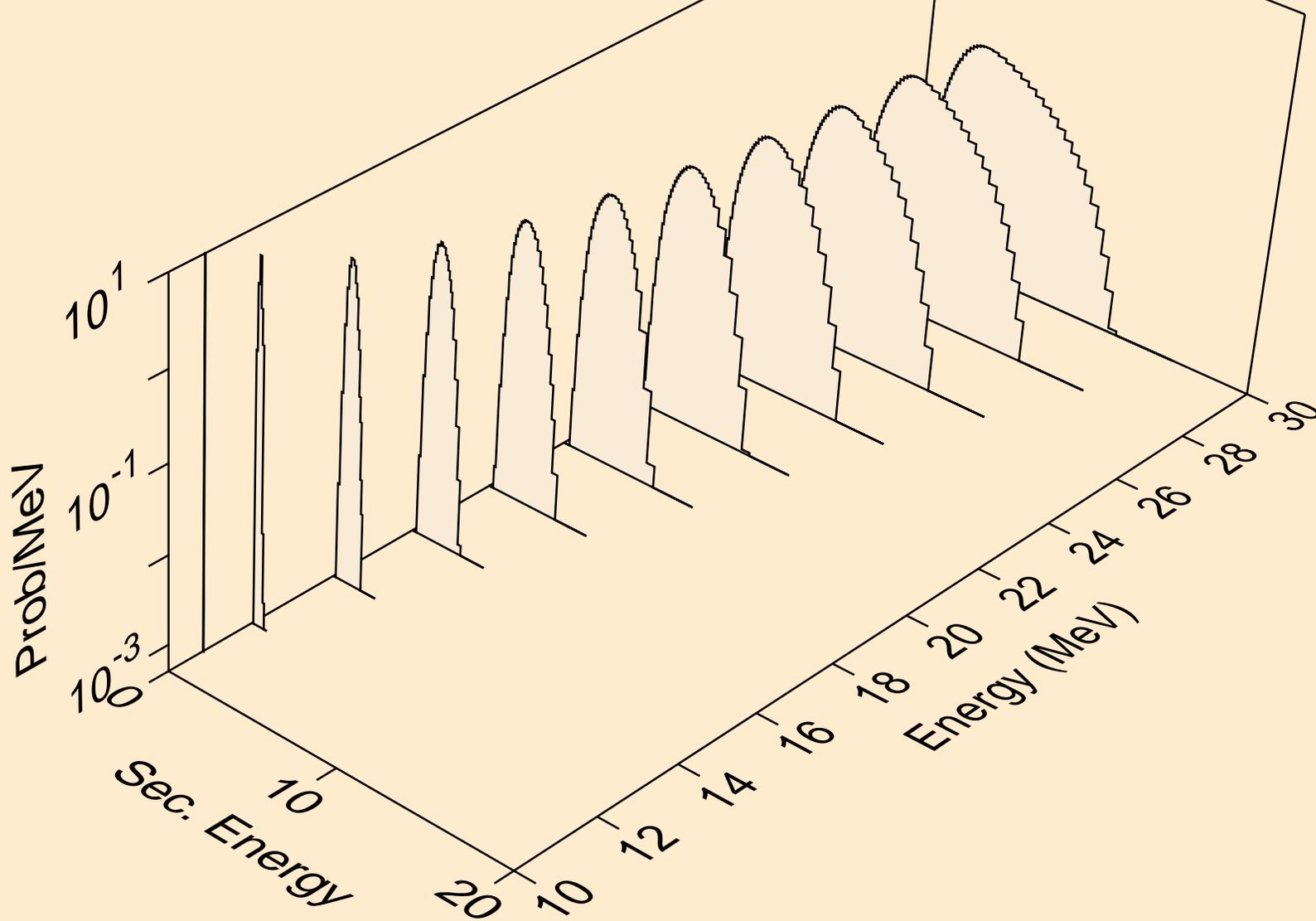
NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
protons from (s,2np)

Prob/MeV

Sec. Energy

Energy (MeV)

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
protons from (s,n2p)

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
protons from (s,npa)

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
protons from (s,p)

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
protons from (s,2p)

ProblMeV

$10^0$

$10^{-2}$

$10^{-4}$

Sec. Energy

20

40

0

5

10

15

20

25

30

Energy (MeV)

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
protons from (s,pa)

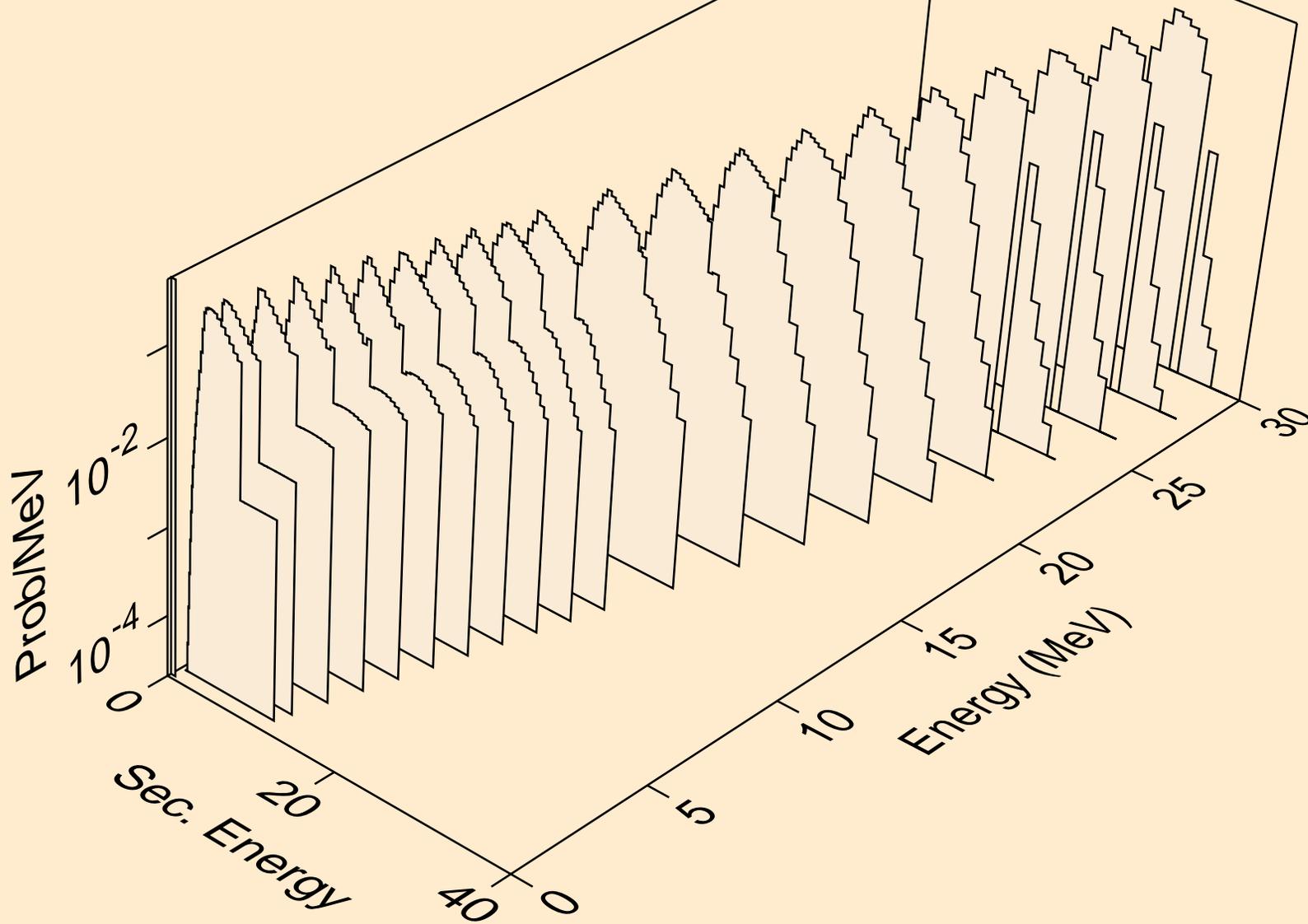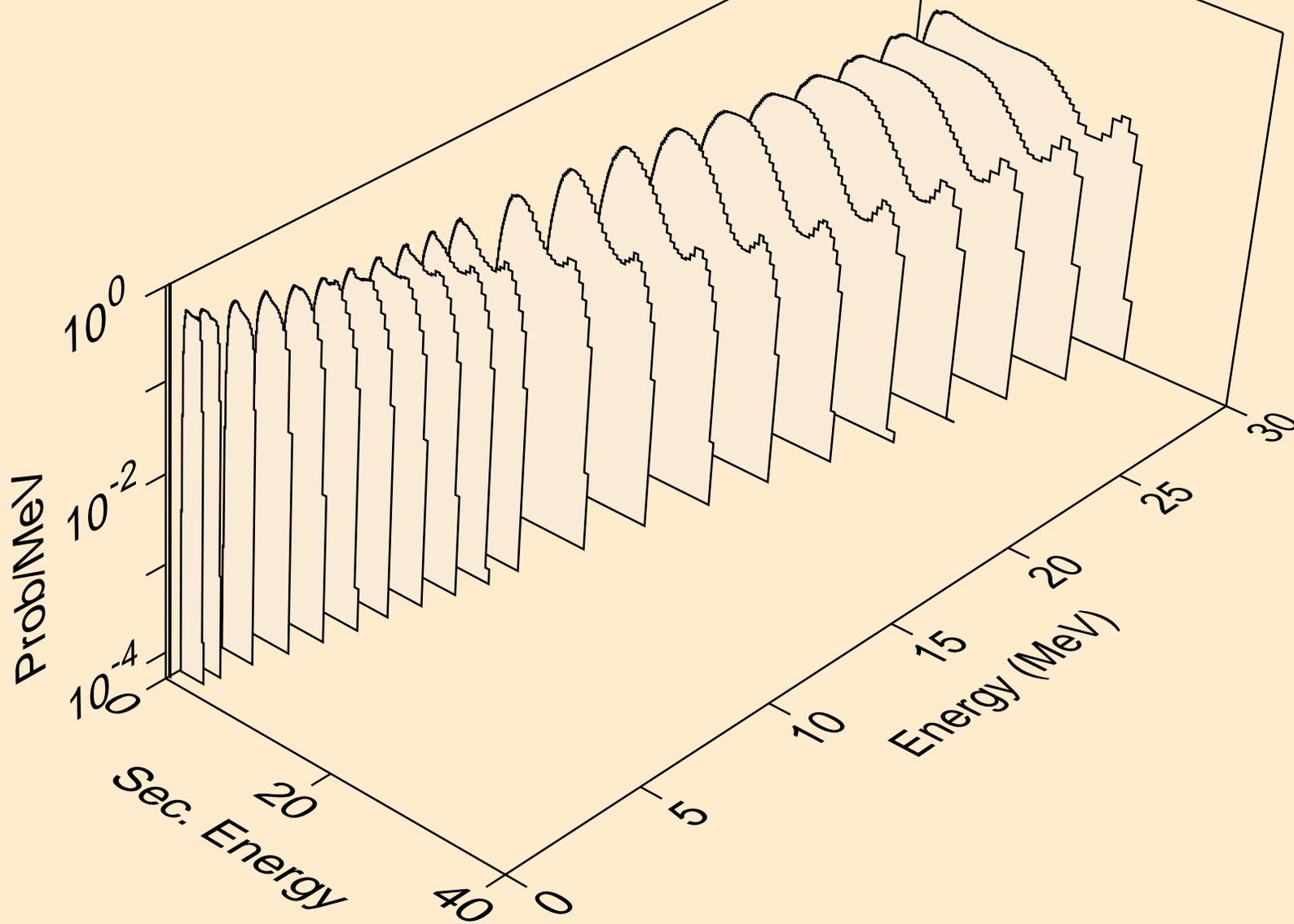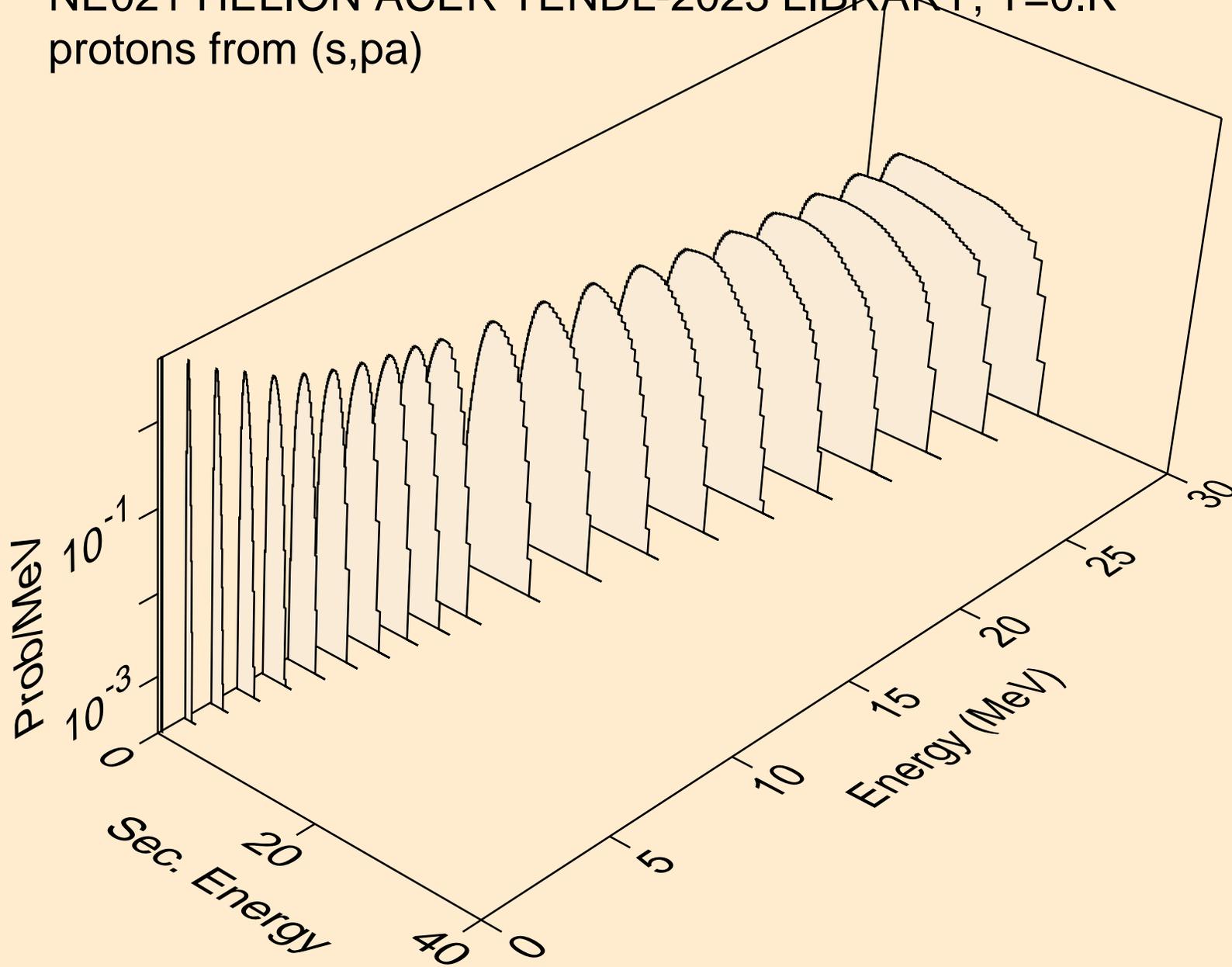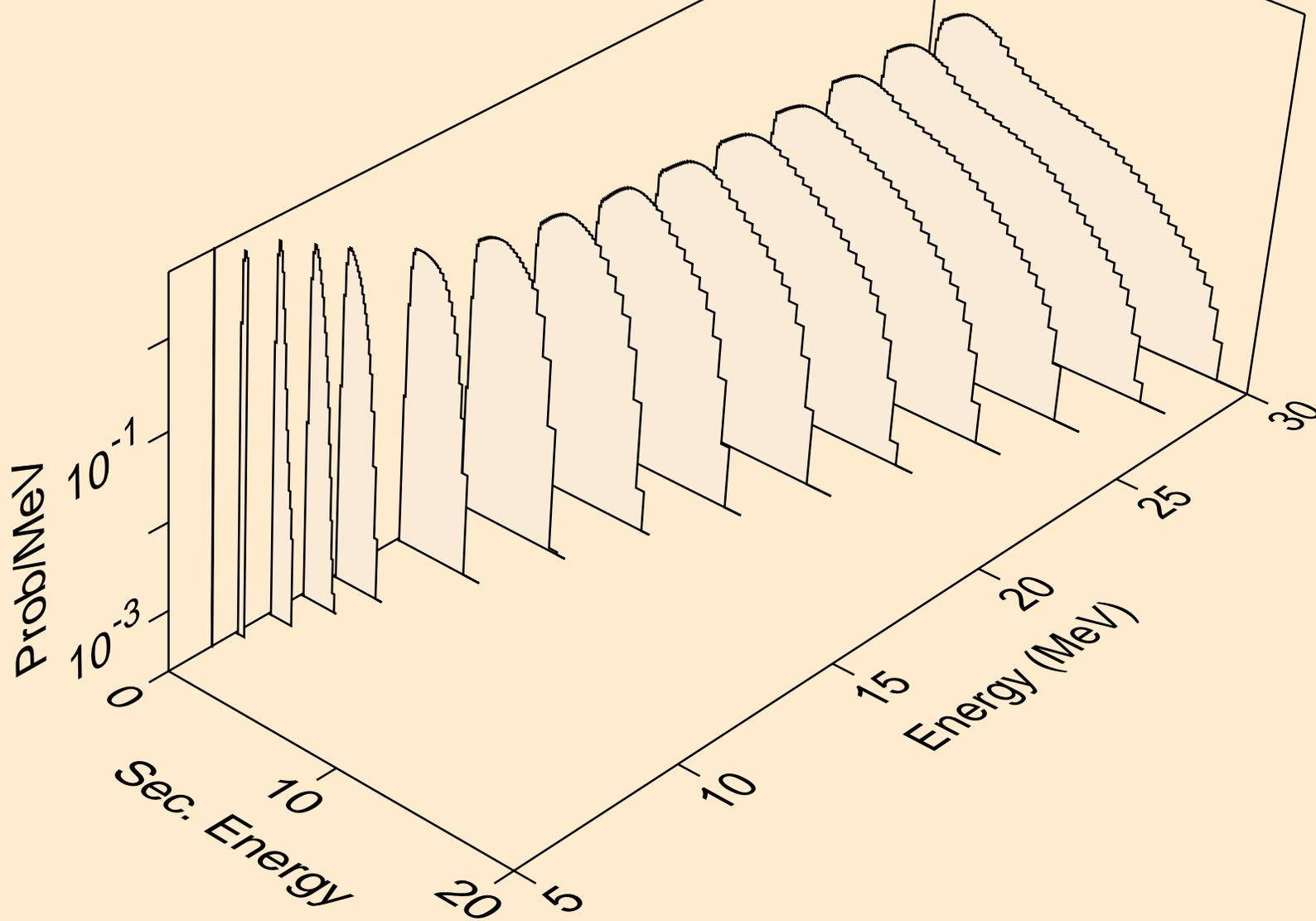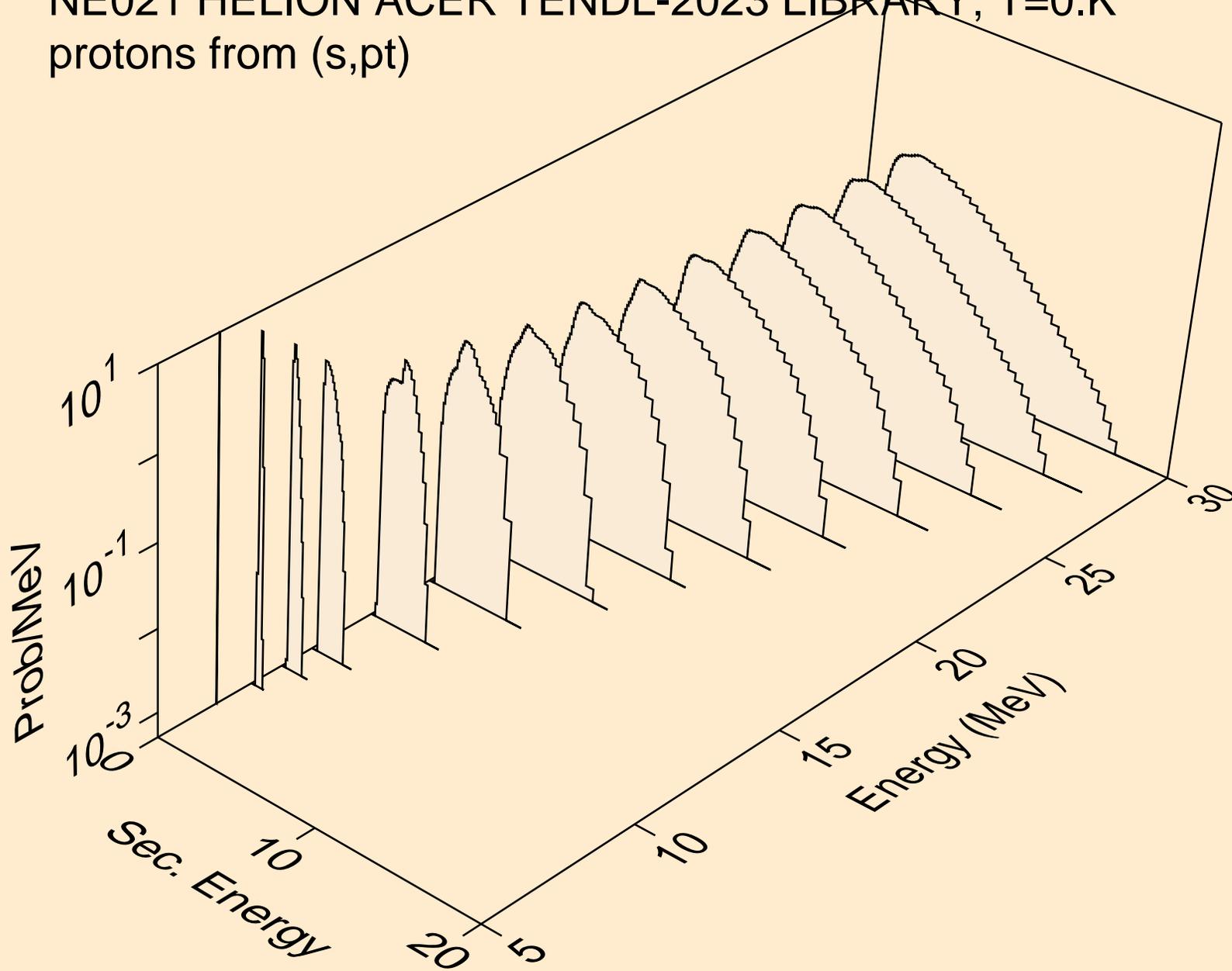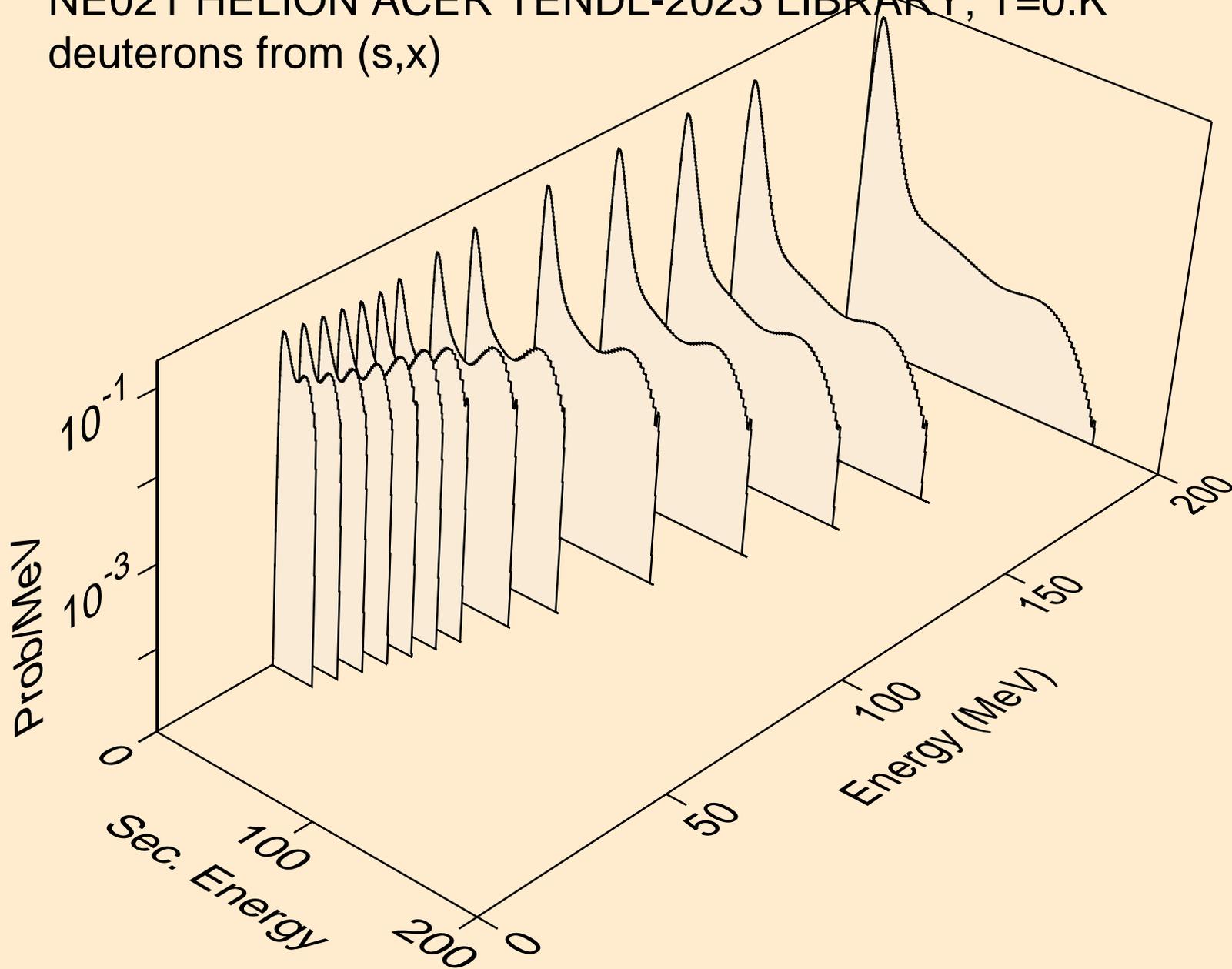NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
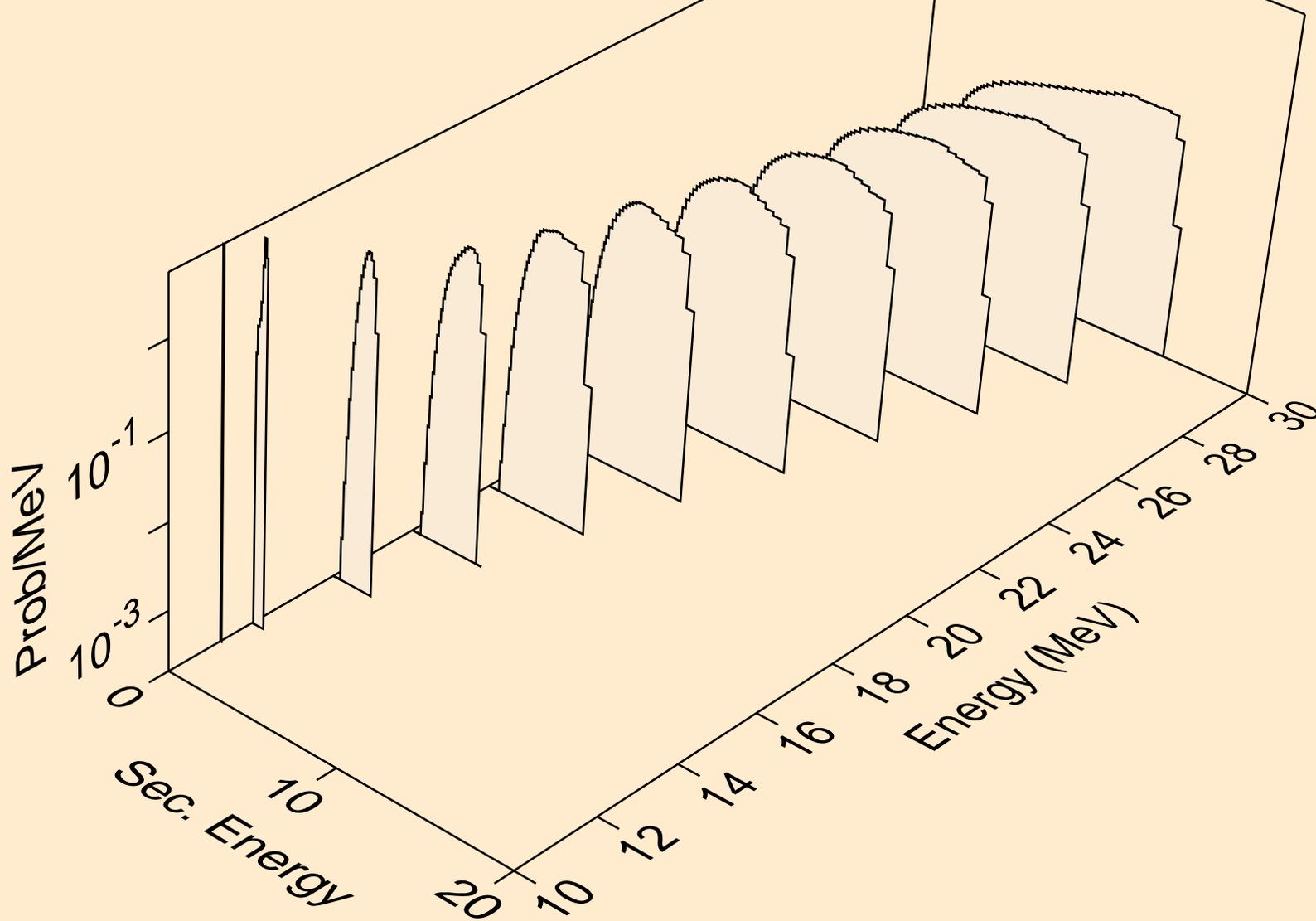protons from (s,pd)

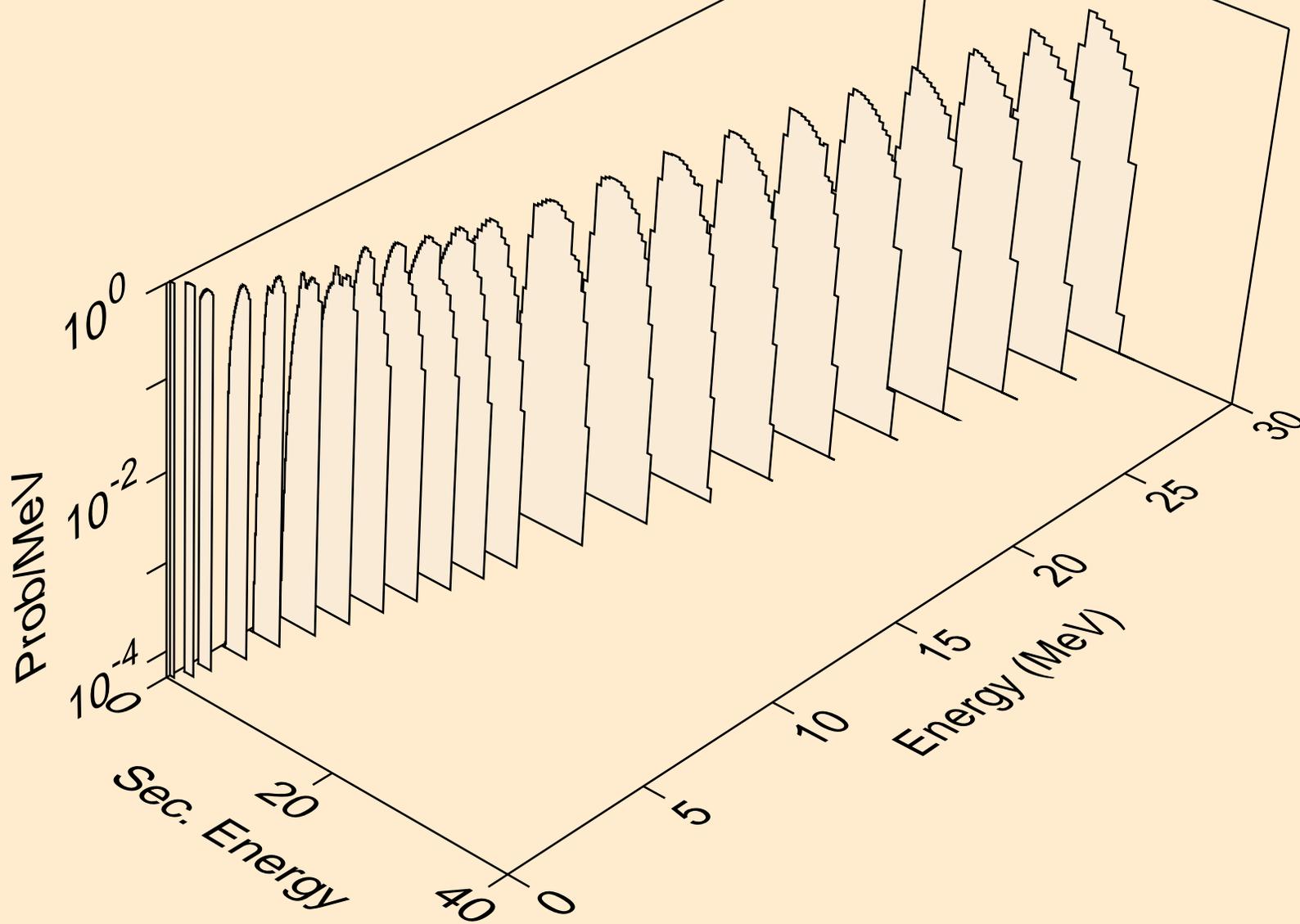NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
protons from (s,pt)

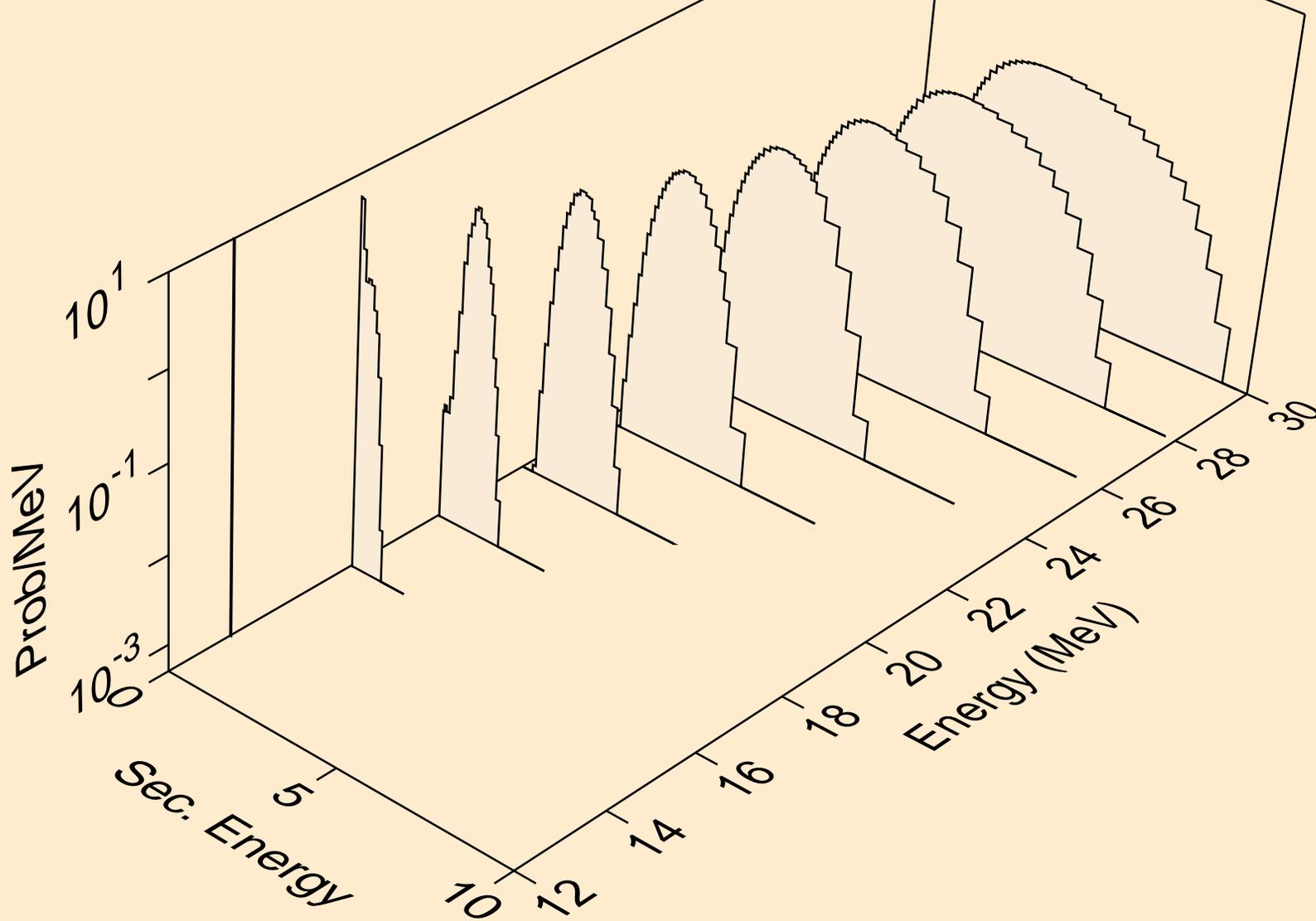NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (s,x)

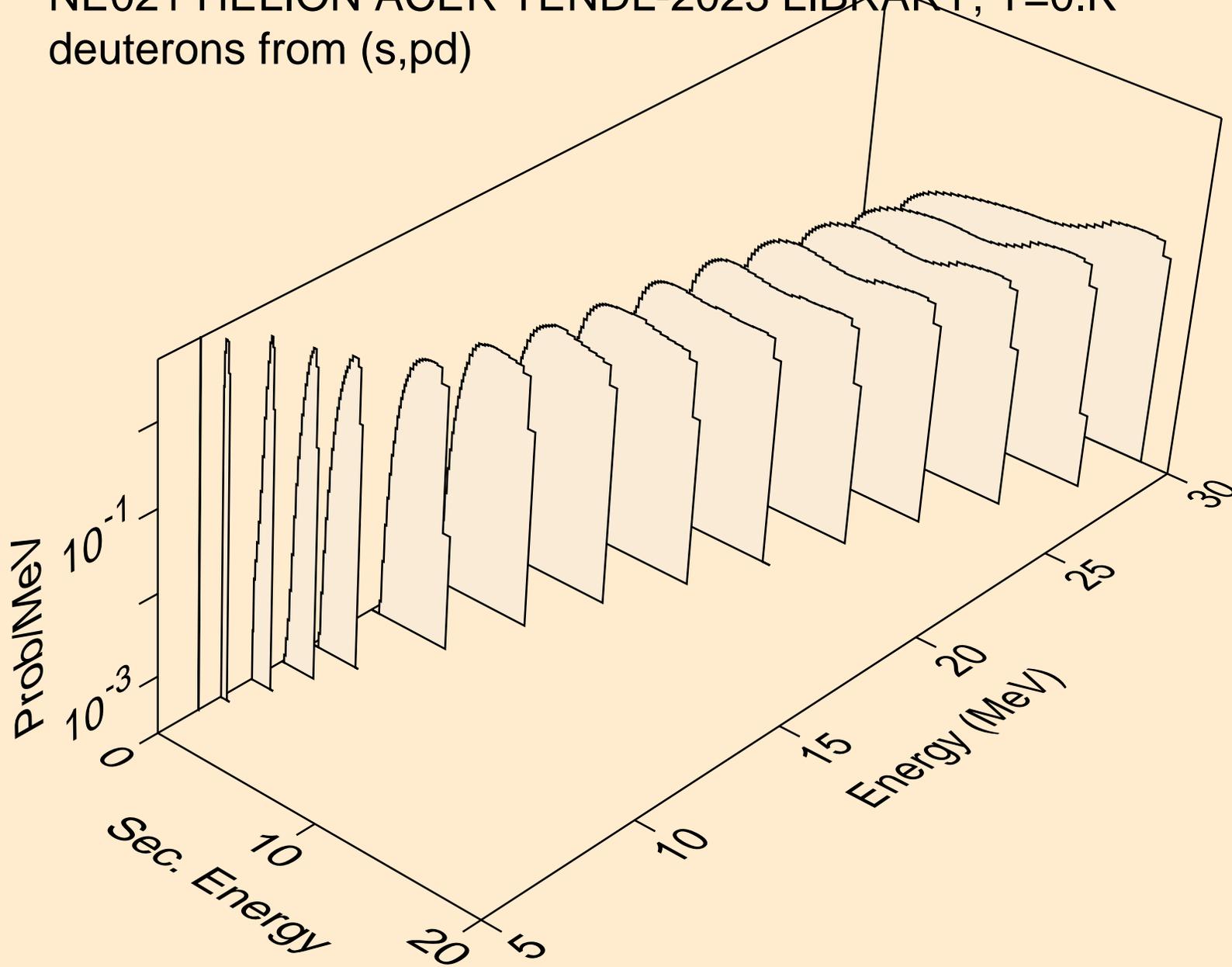NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (s,n*)d

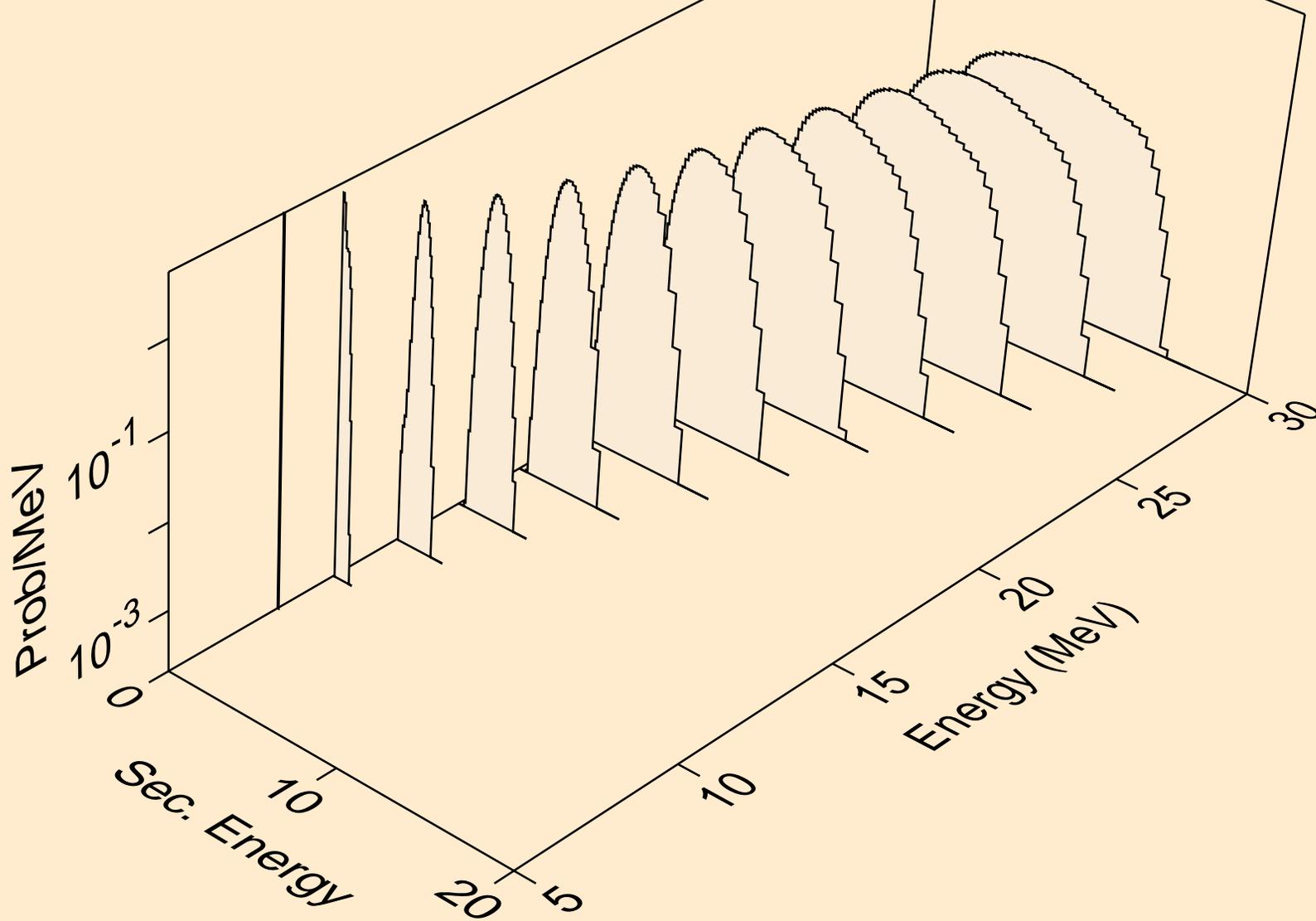NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (s,d)

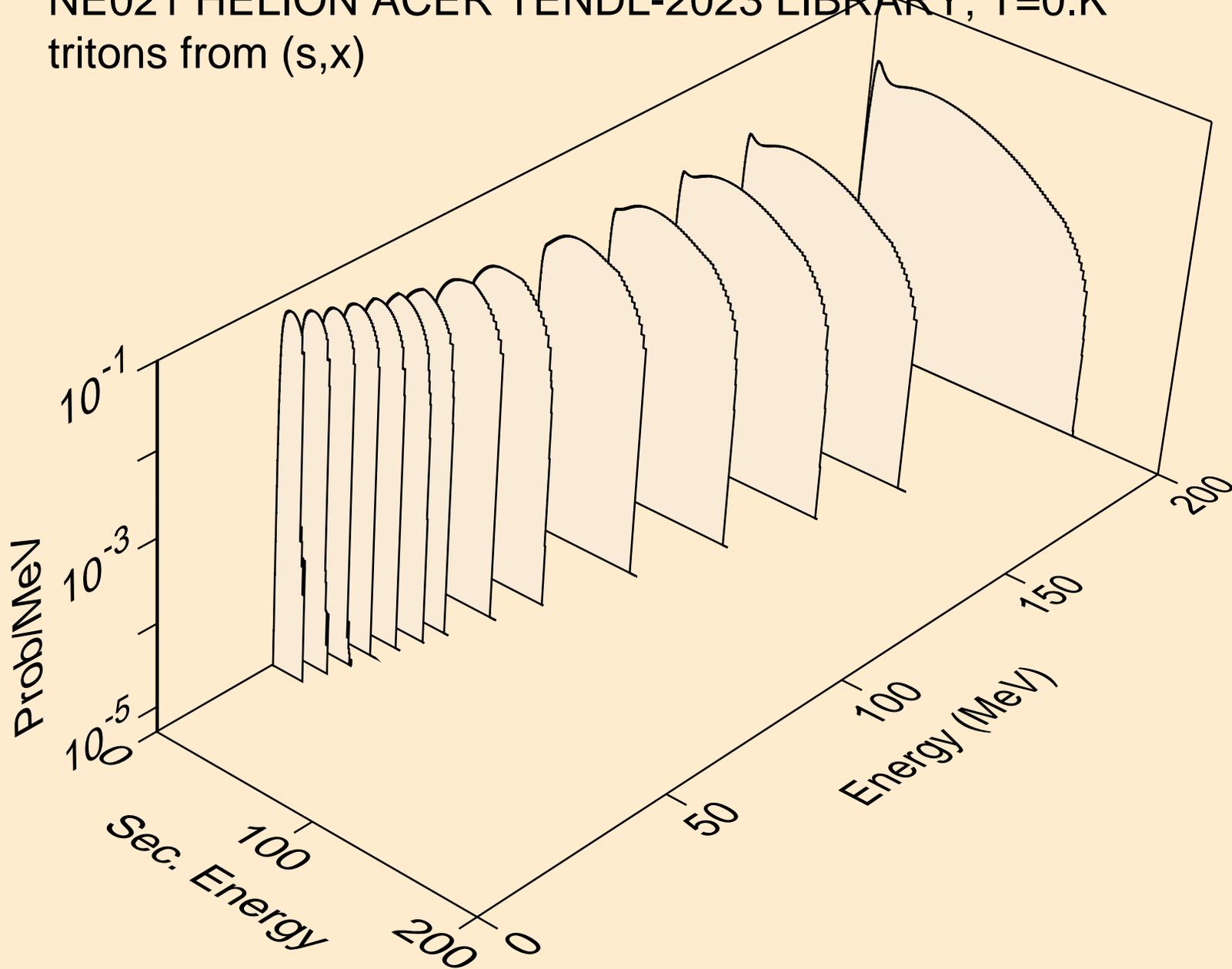NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (s,d2a)

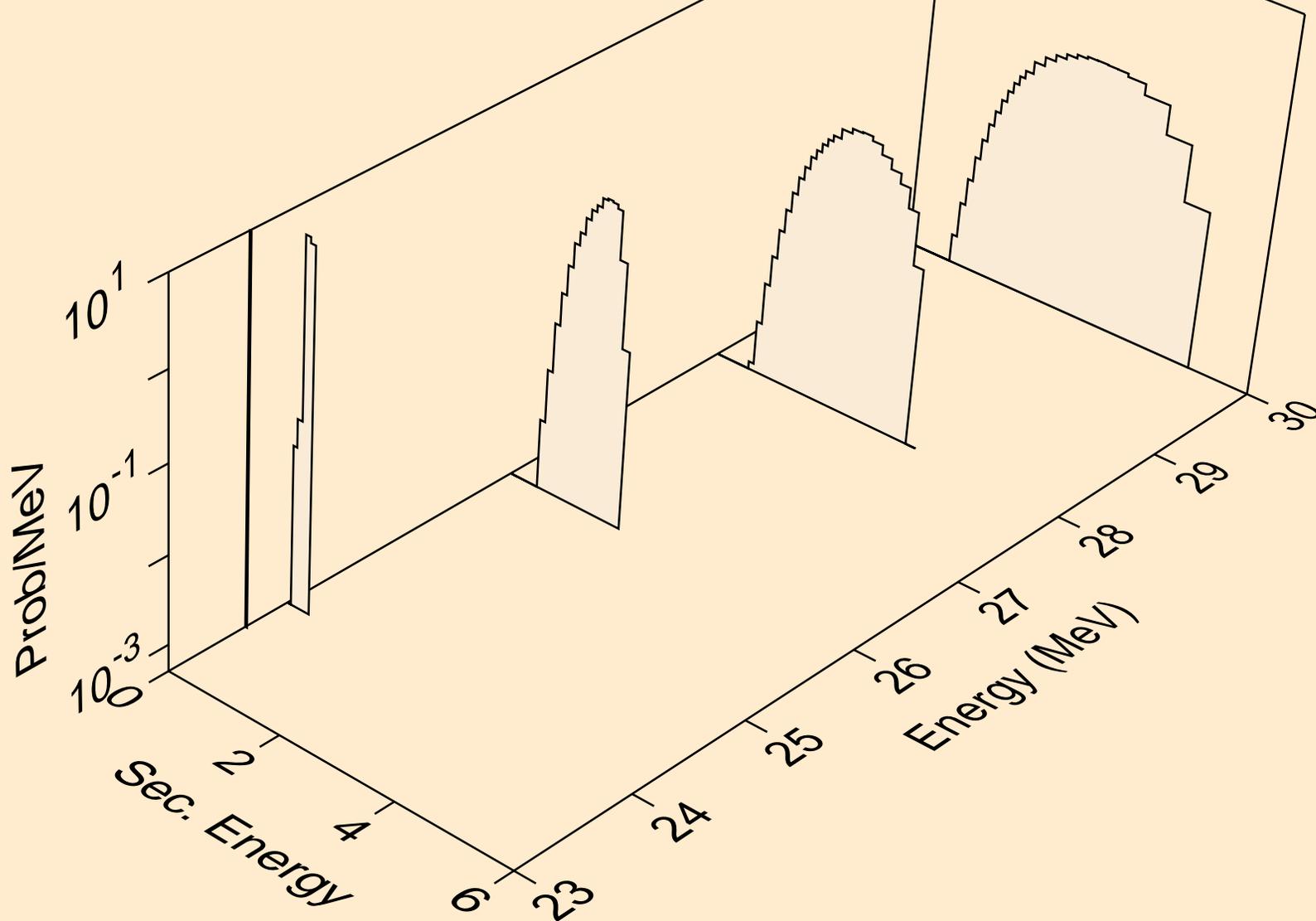NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (s,pd)

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
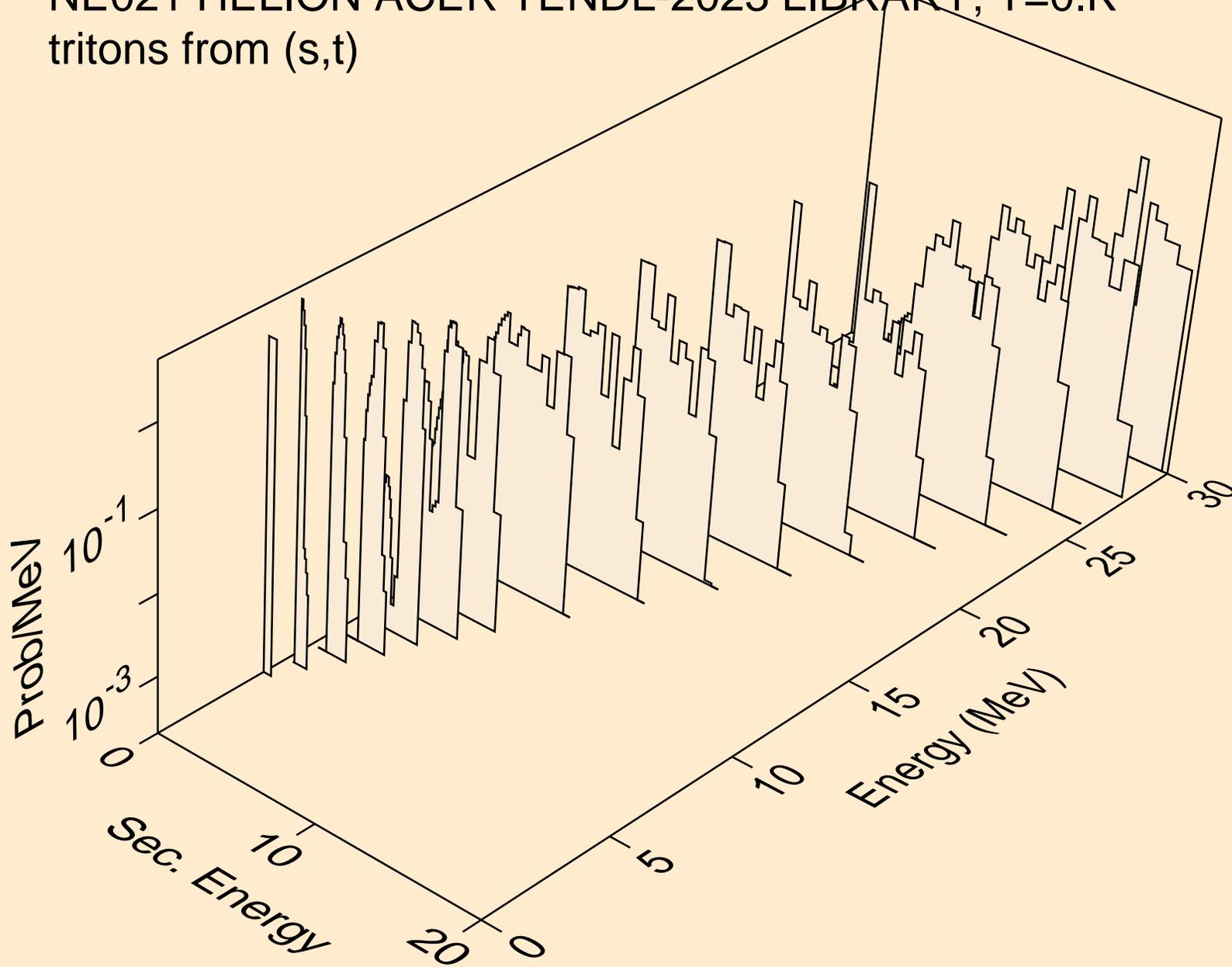deuterons from (s,da)

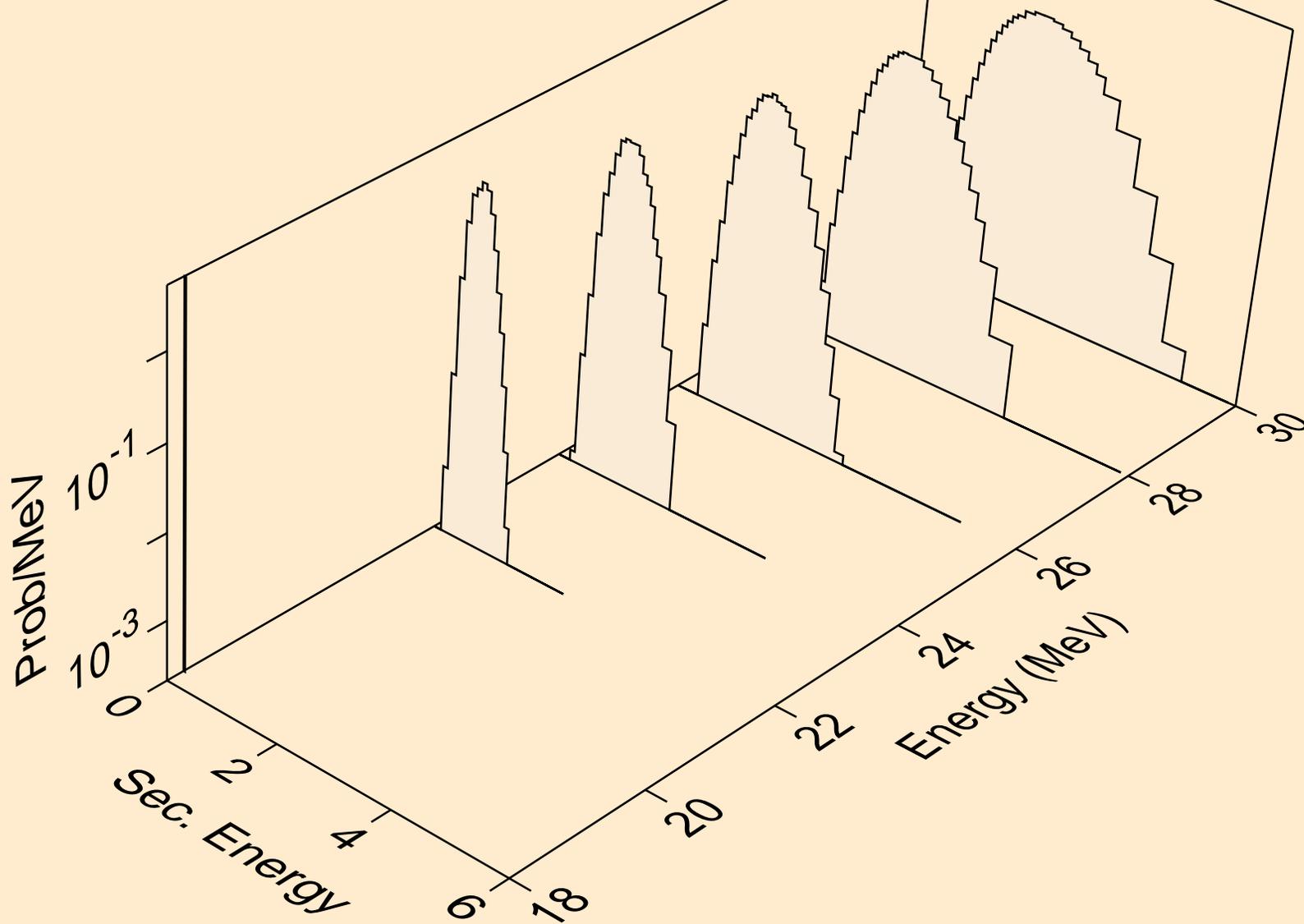NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
tritons from (s,x)

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
tritons from (s,n*)t

ProbMeV

$10^1$

$10^{-1}$

$10^{-3}$

Sec. Energy

2

4

6

Energy (MeV)
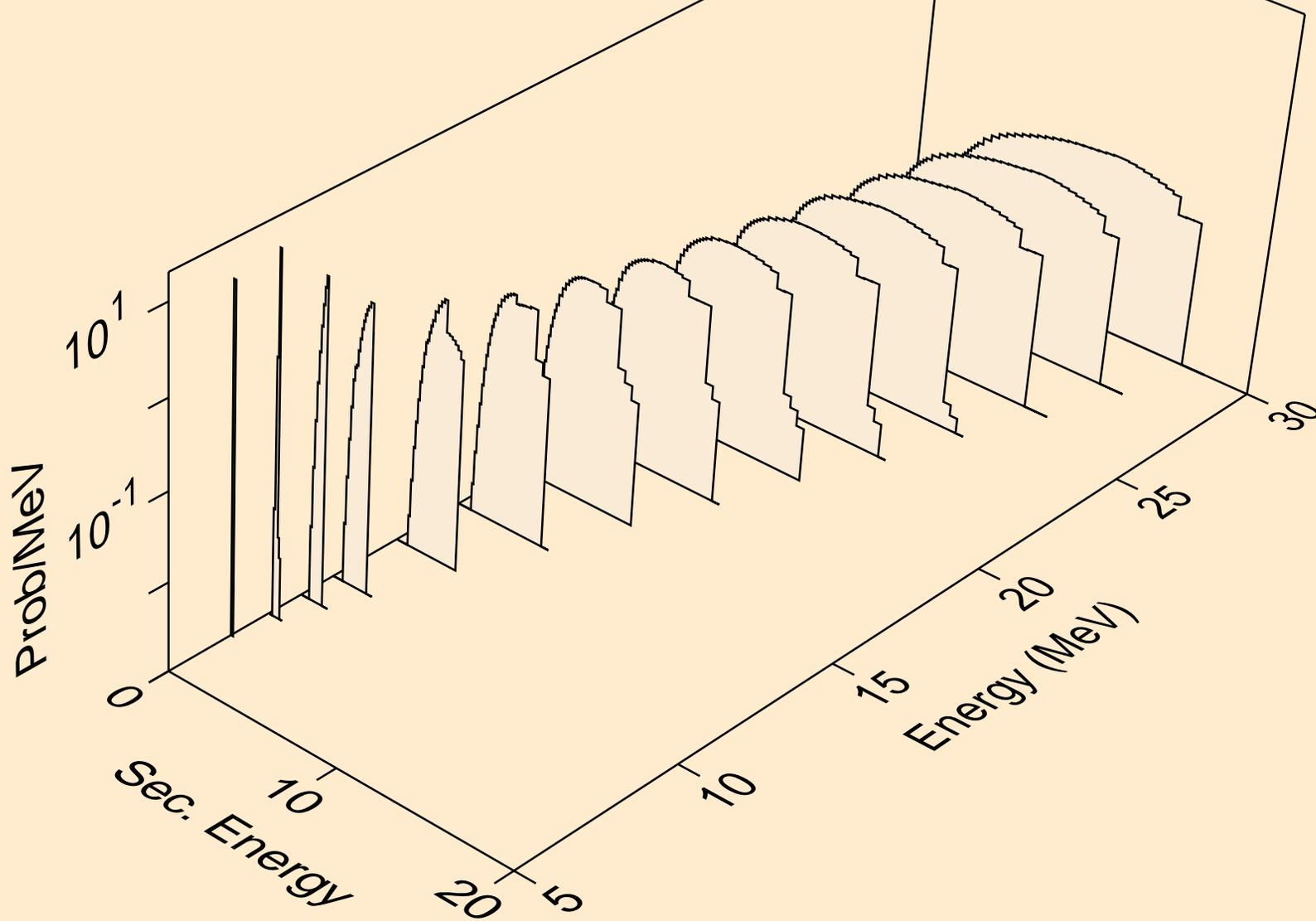
23

24

25

26

27

28

29

30

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
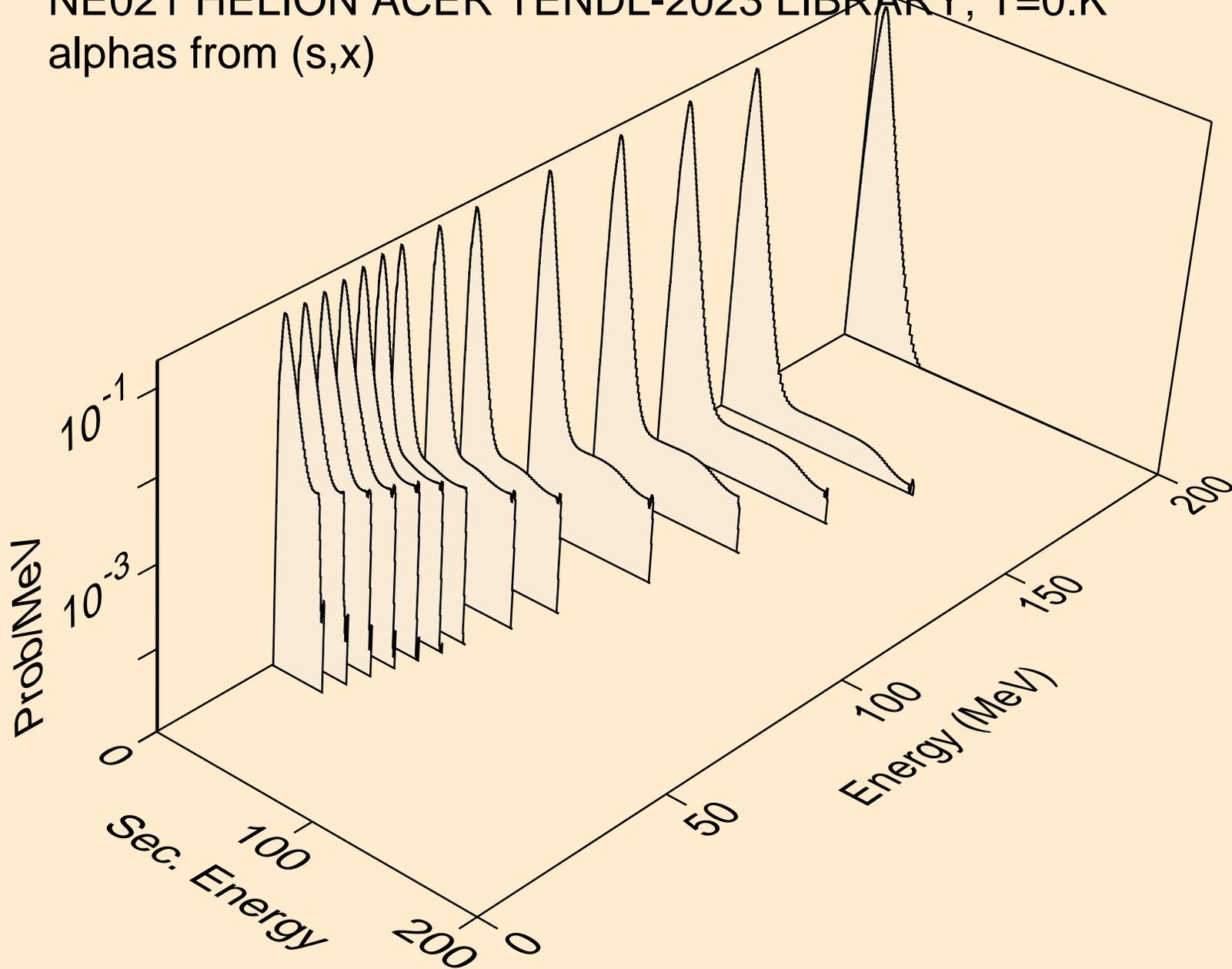tritons from (s,t)

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
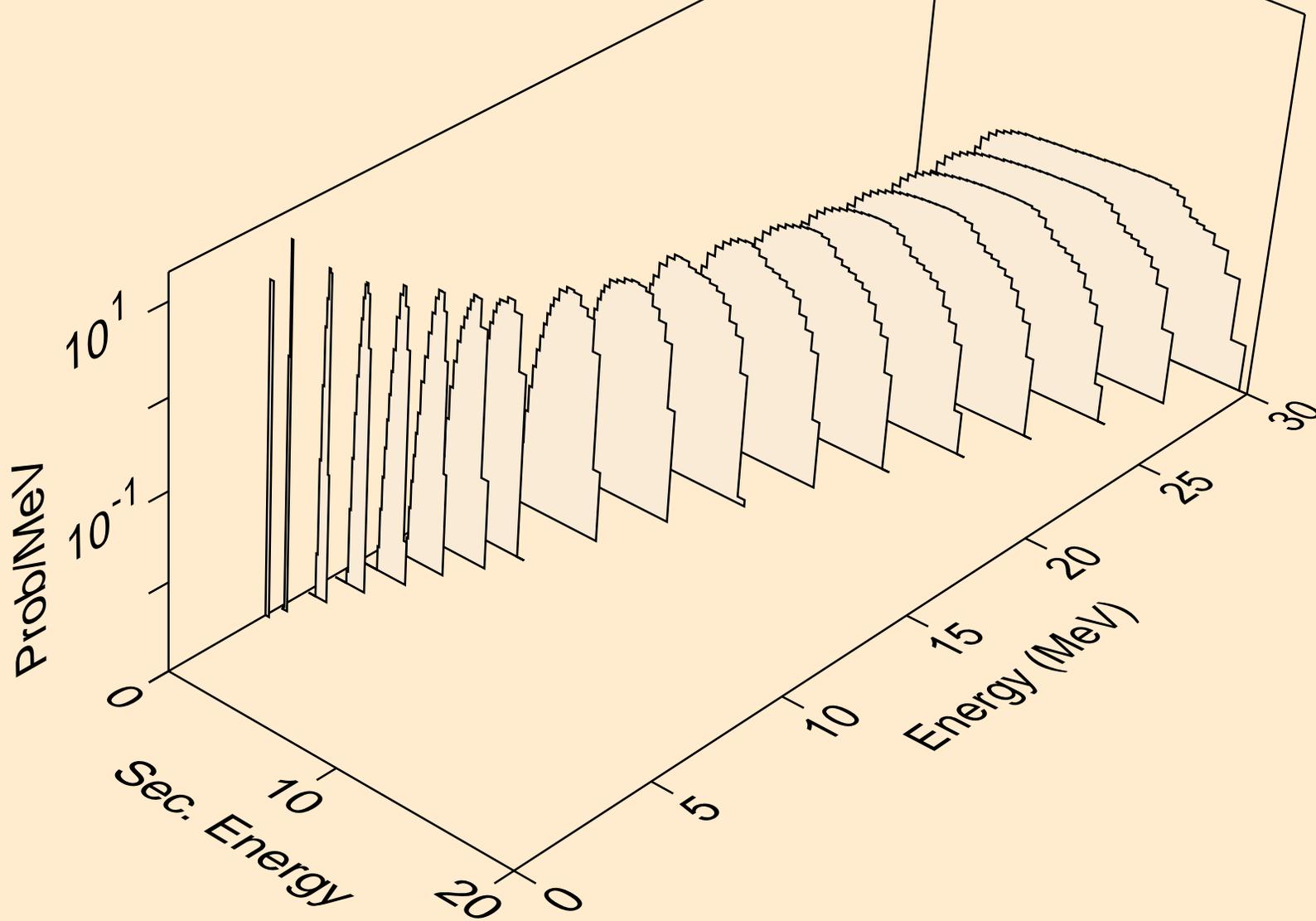tritons from (s,t2a)

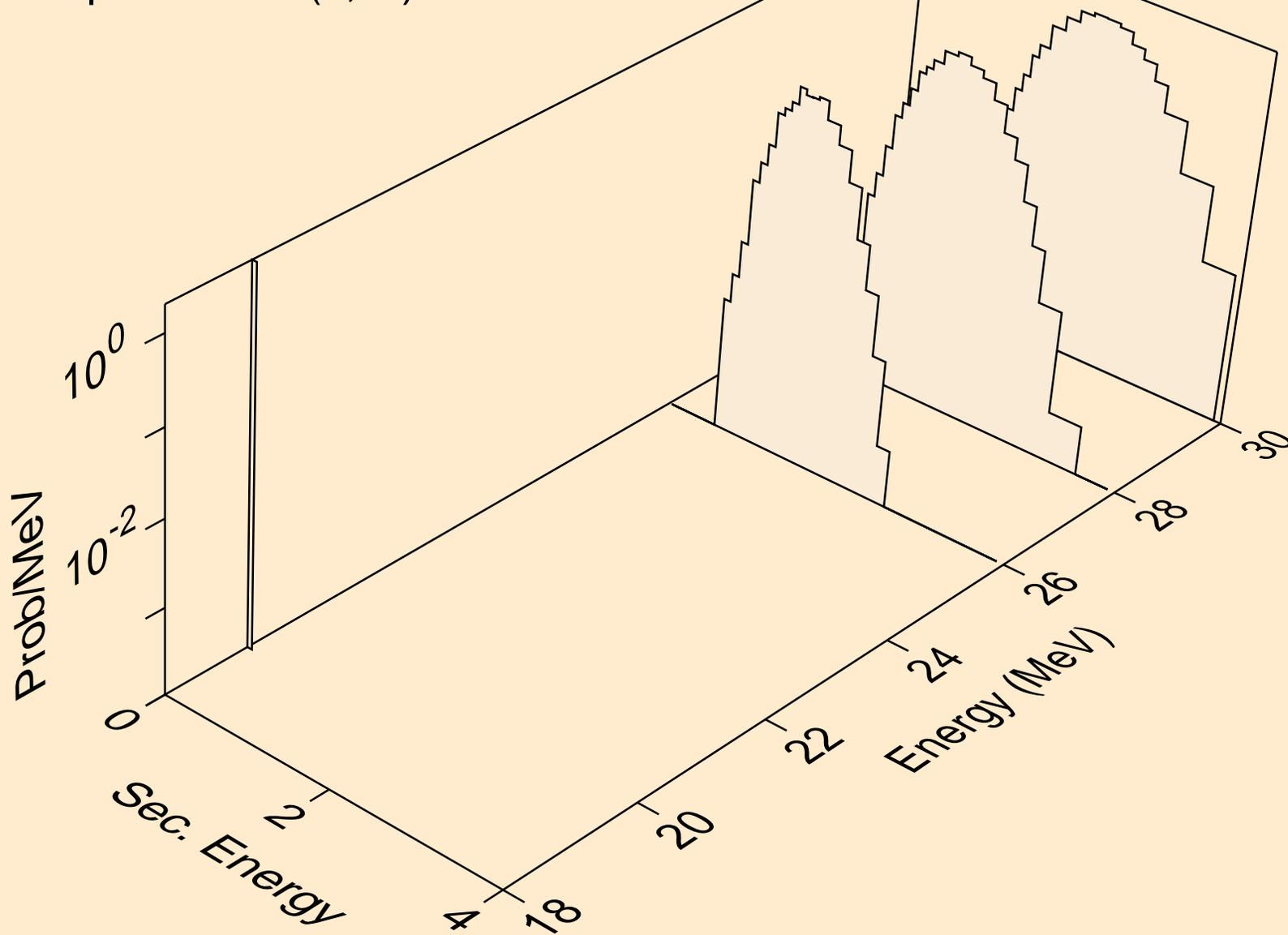NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
tritons from (s,pt)

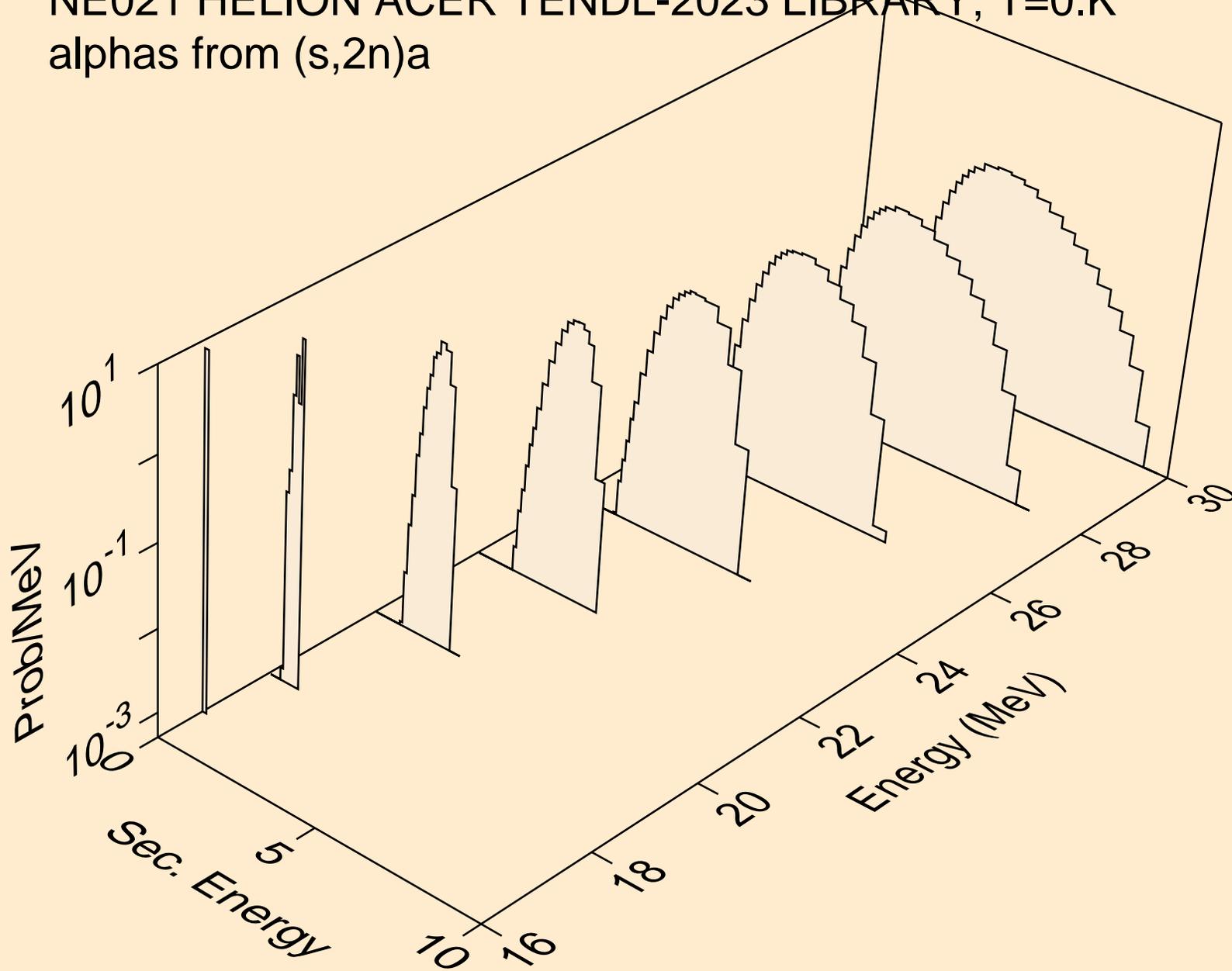NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
alphas from (s,x)

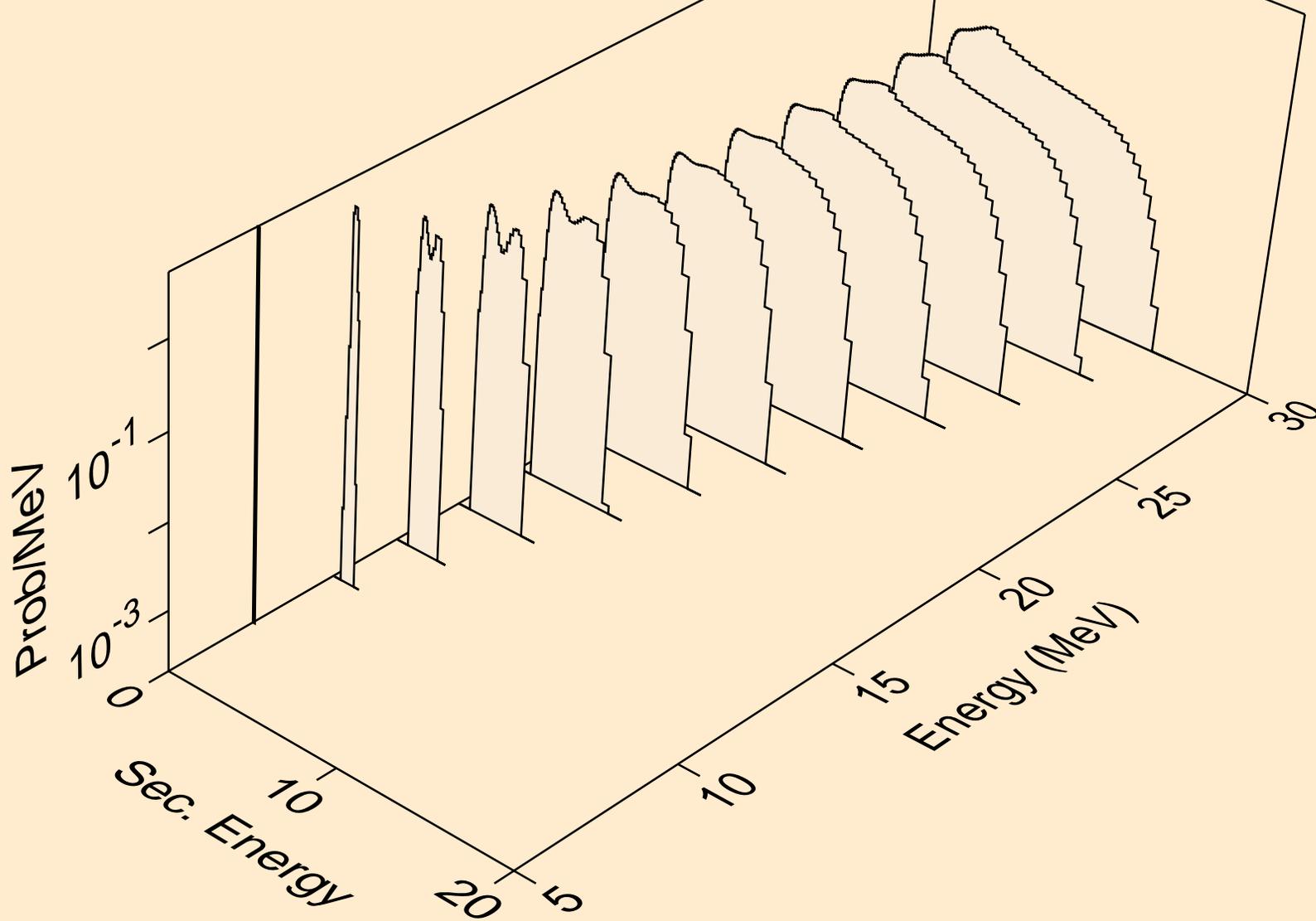NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
alphas from (s,n*)a

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
alphas from (s,n*)3a

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
alphas from (s,2n)a

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
alphas from (s,n*)2a

ProblMeV

$10^{-1}$

$10^{-3}$

0

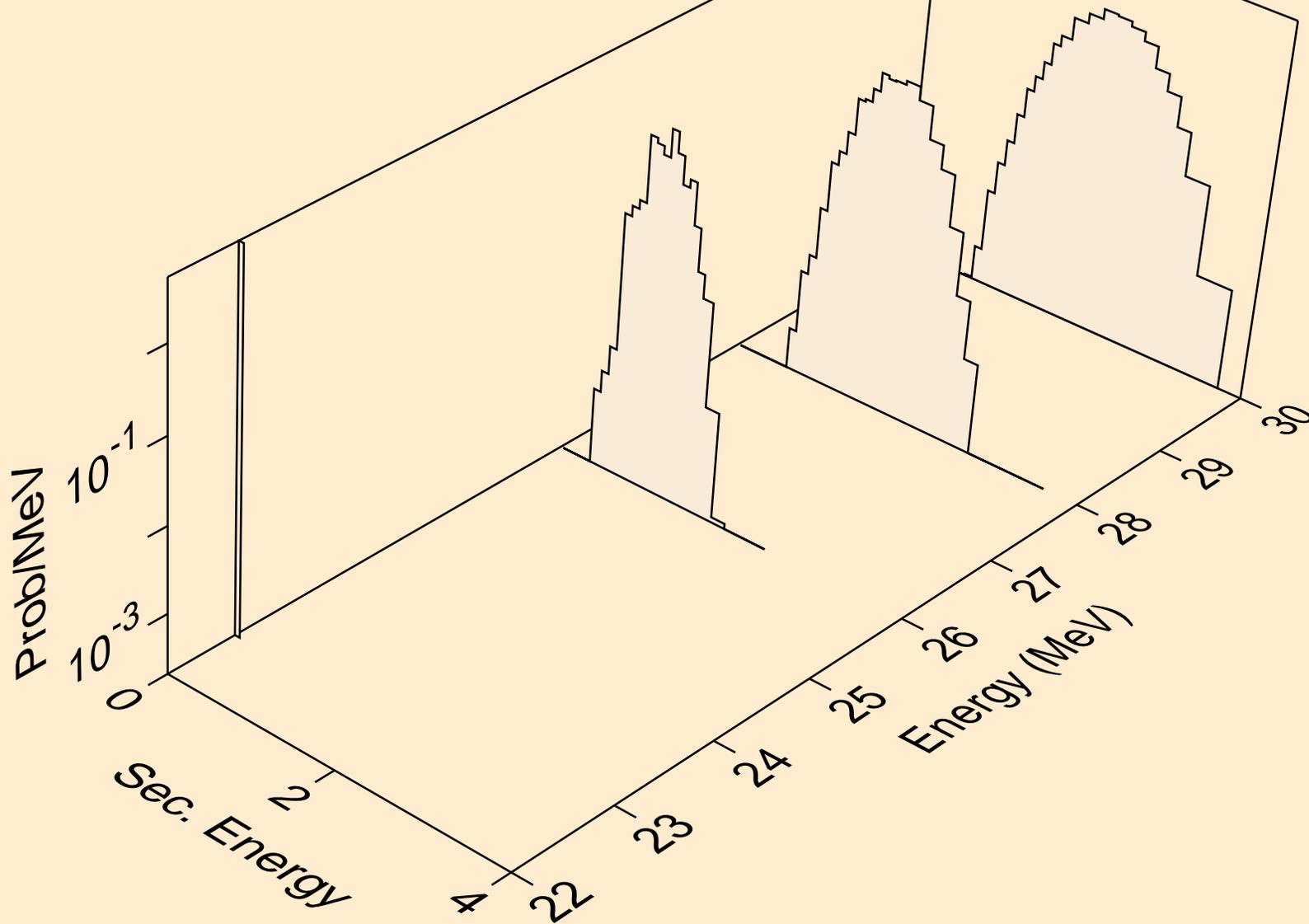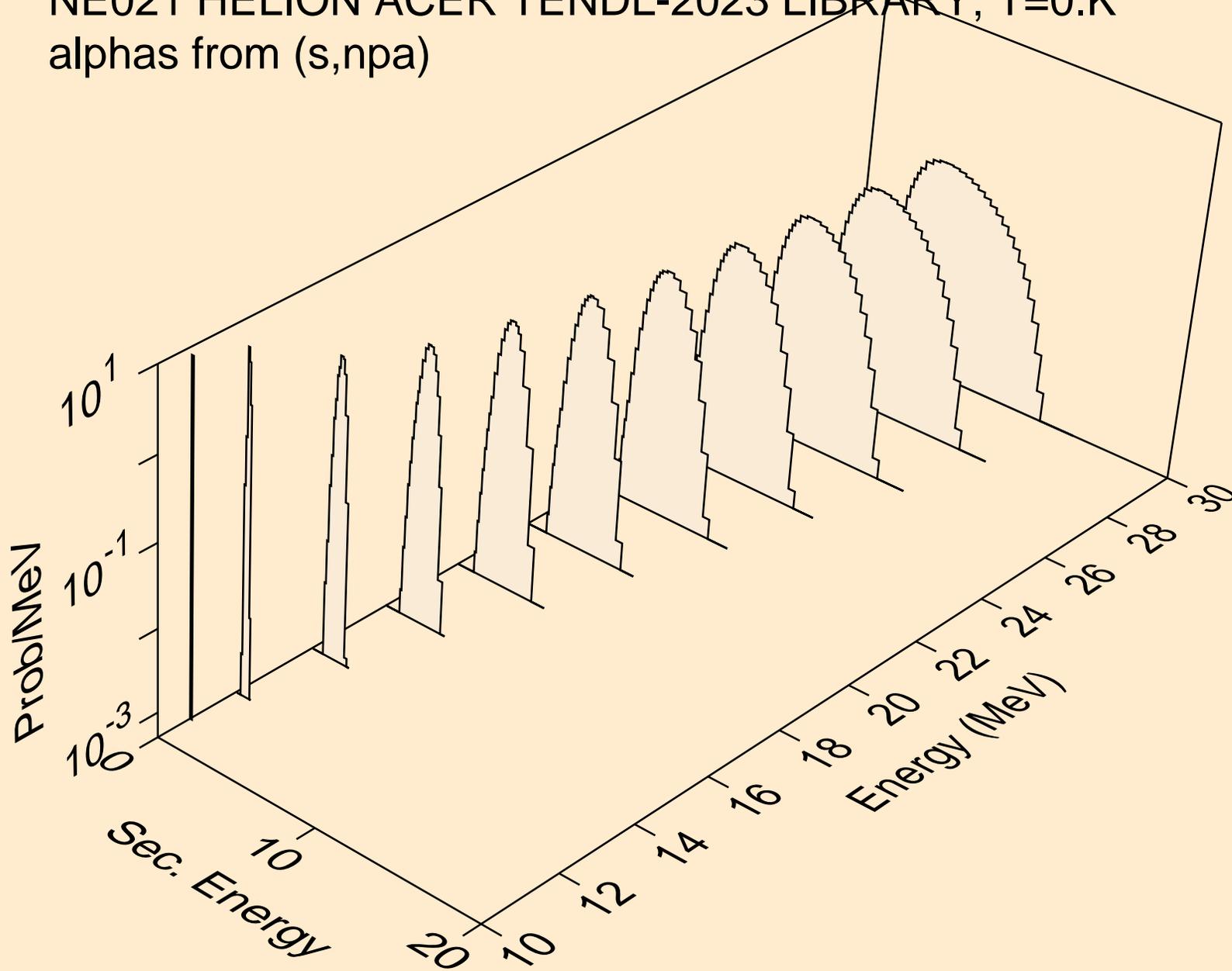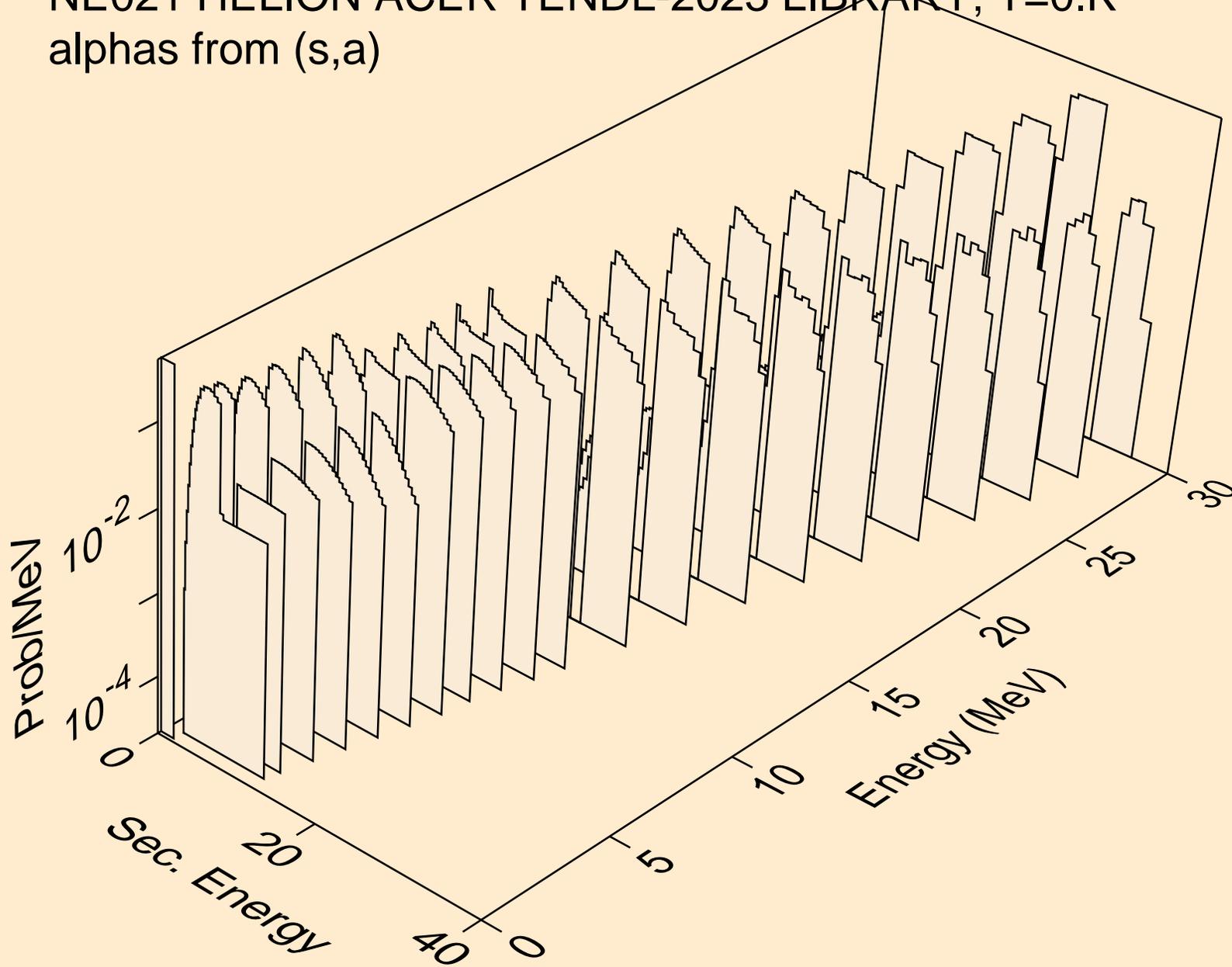Sec. Energy

10

20

Energy (MeV)

5

10

15

20

25

30

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
alphas from (s,2n)2a

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
alphas from (s,npa)

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
alphas from (s,a)

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
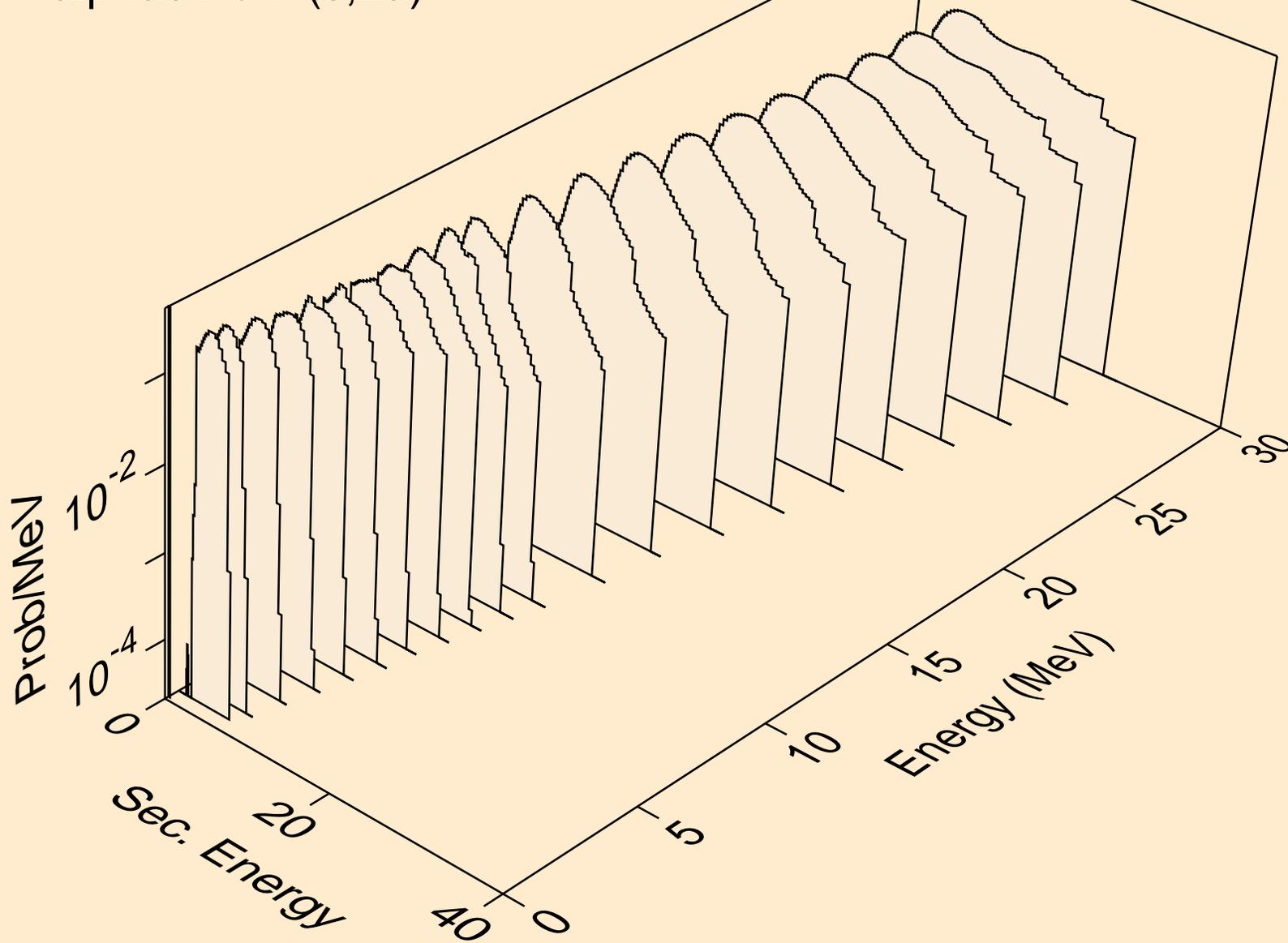alphas from (s,2a)

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
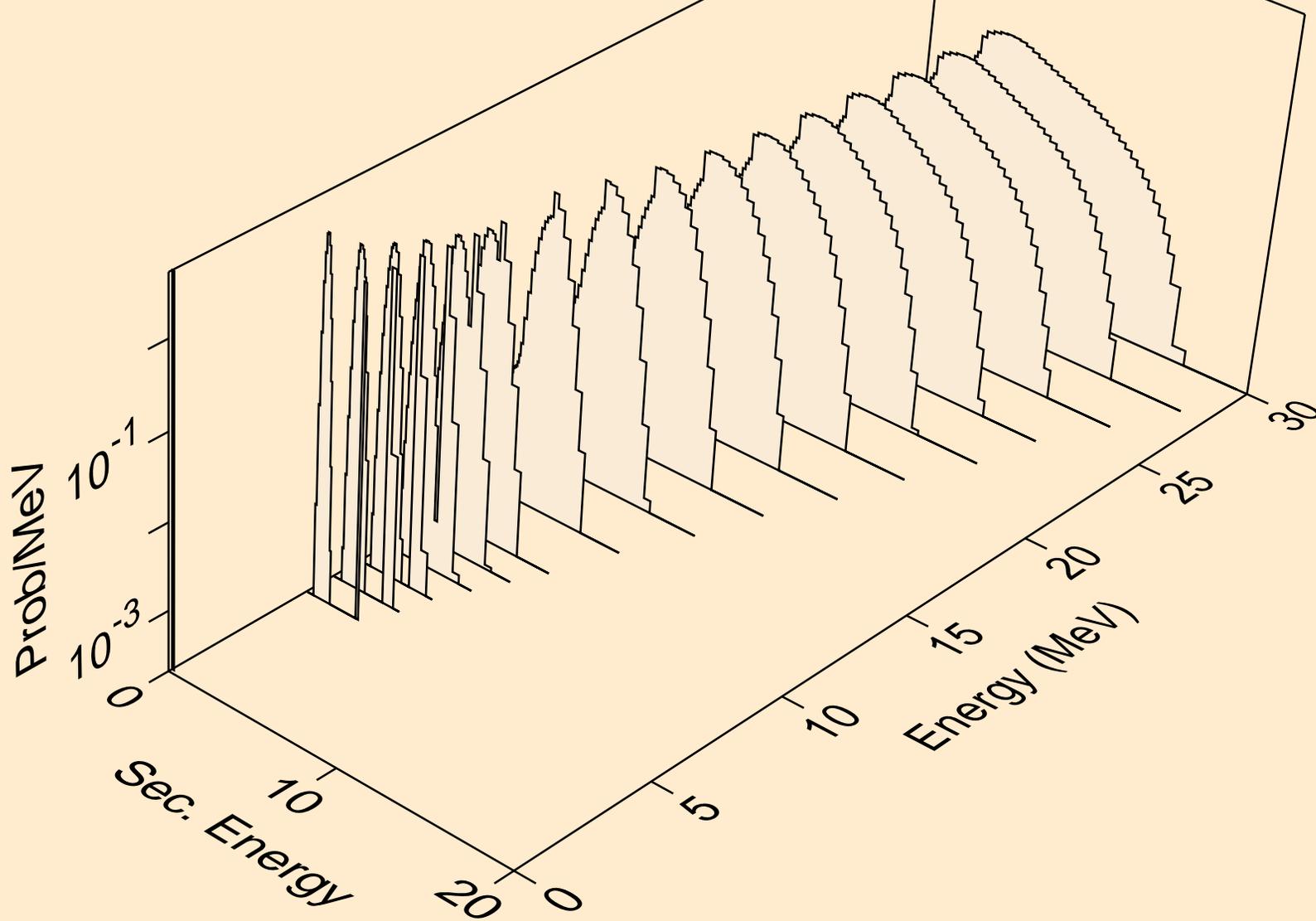alphas from (s,3a)

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
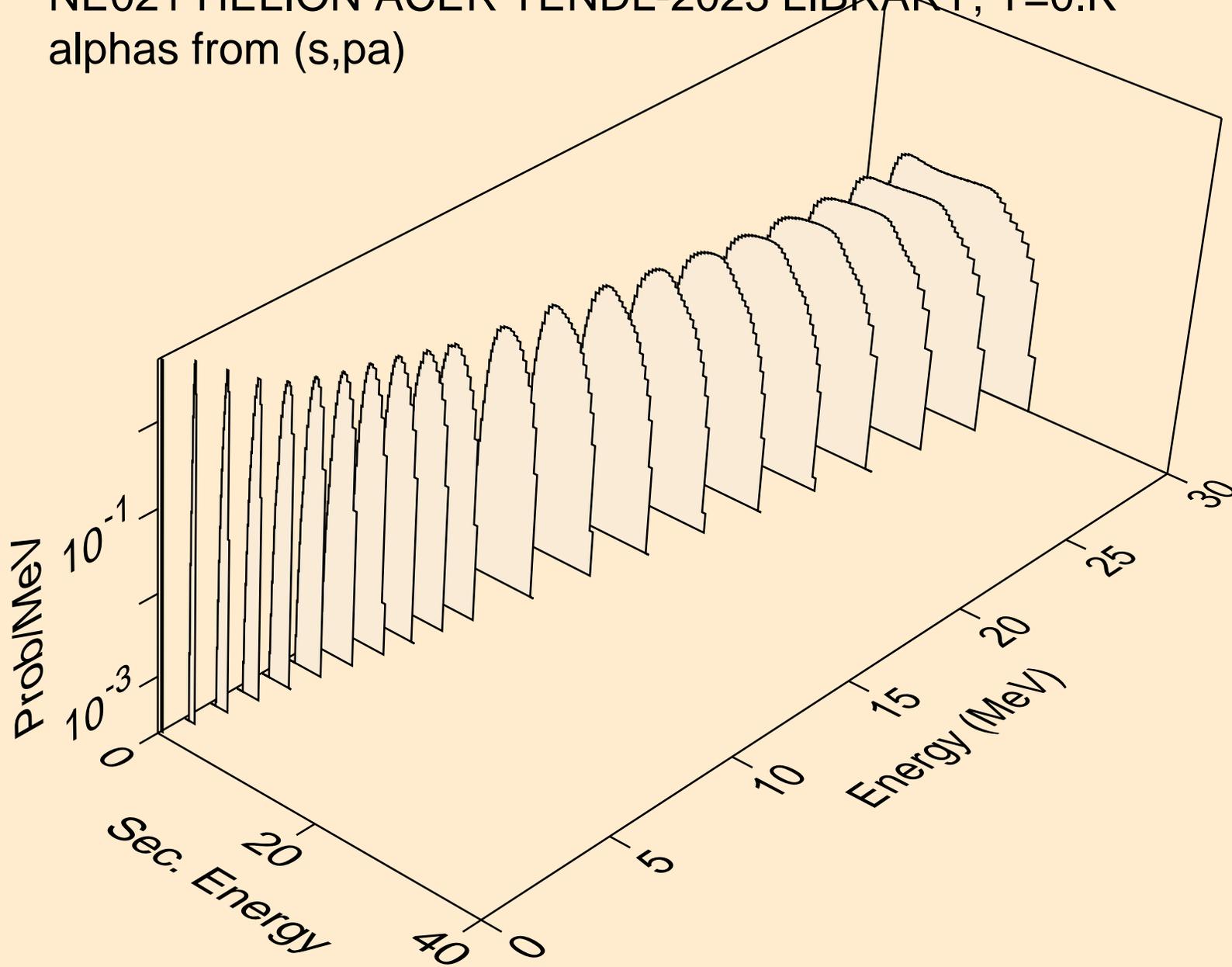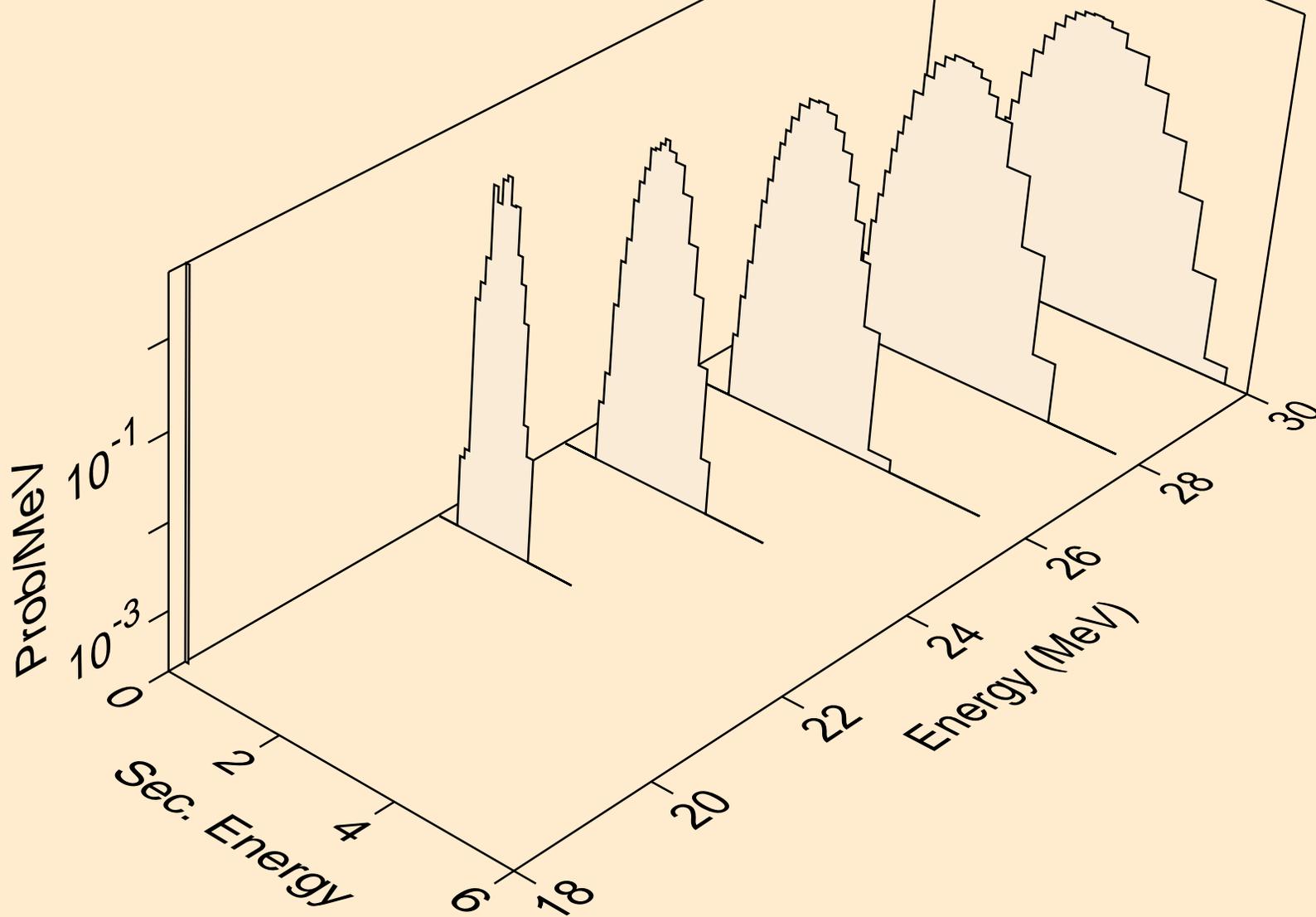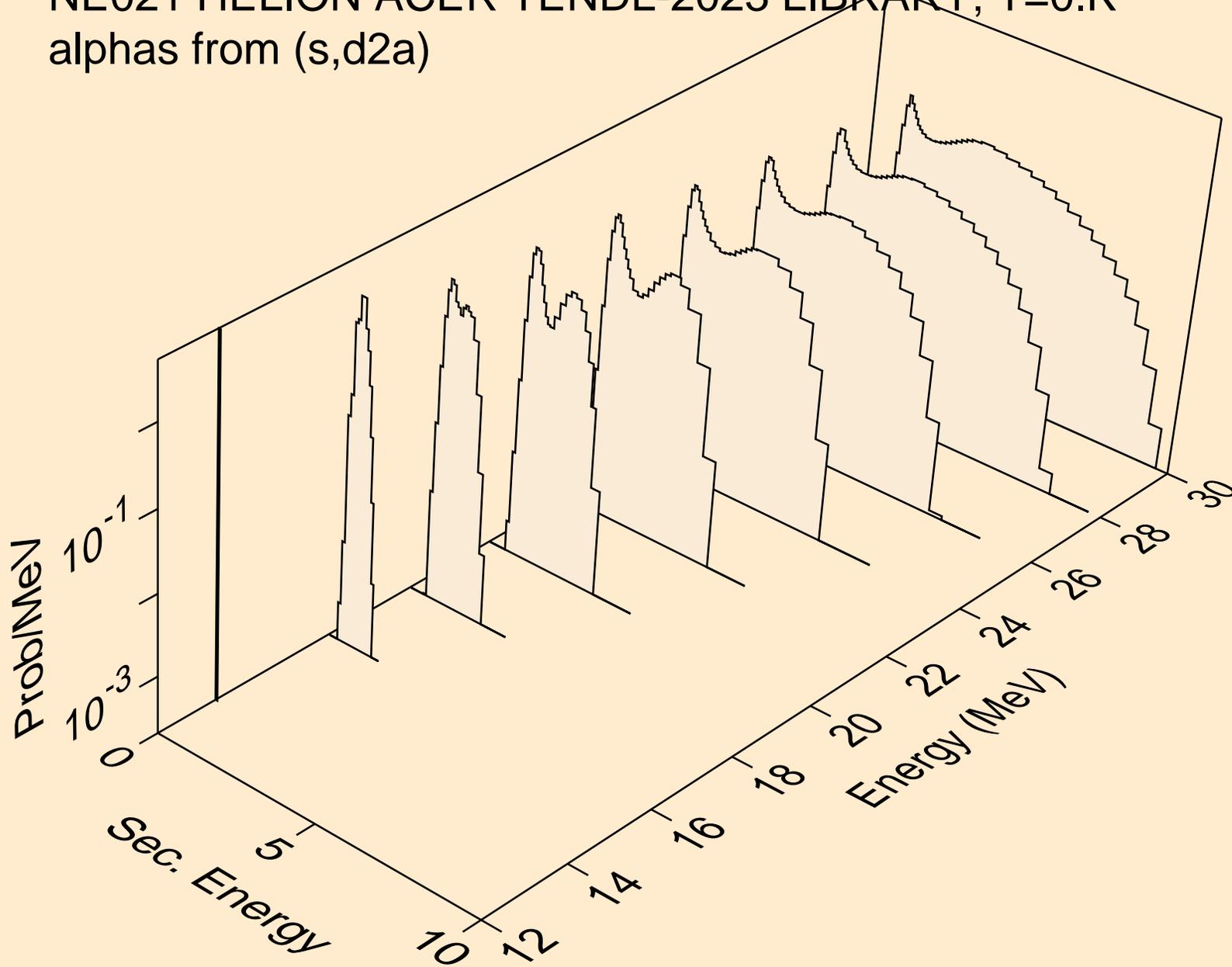alphas from (s,pa)

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
alphas from (s,t2a)

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
alphas from (s,d2a)

NE021 HELION ACER TENDL-2023 LIBRARY; T=0.K
alphas from (s,da)