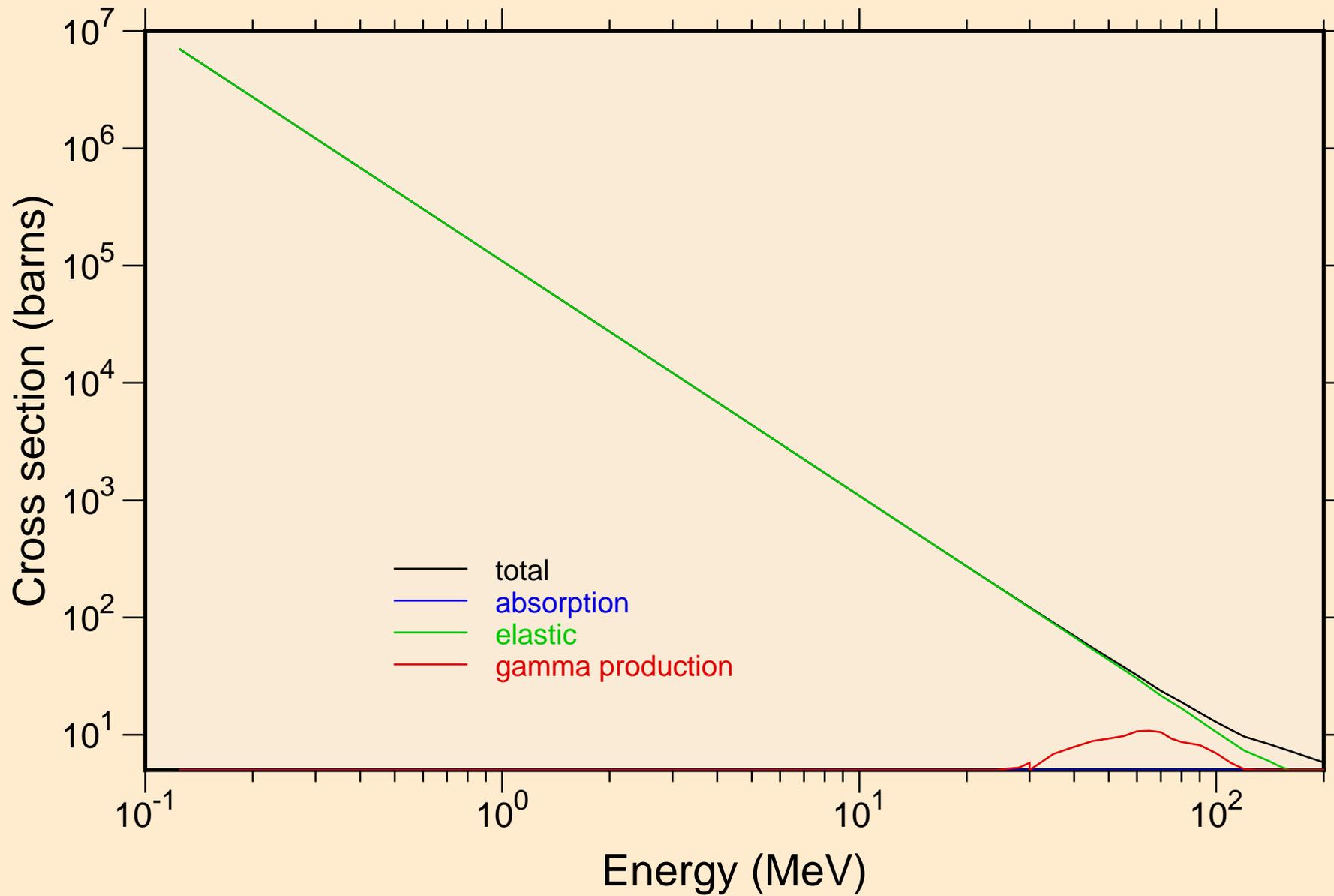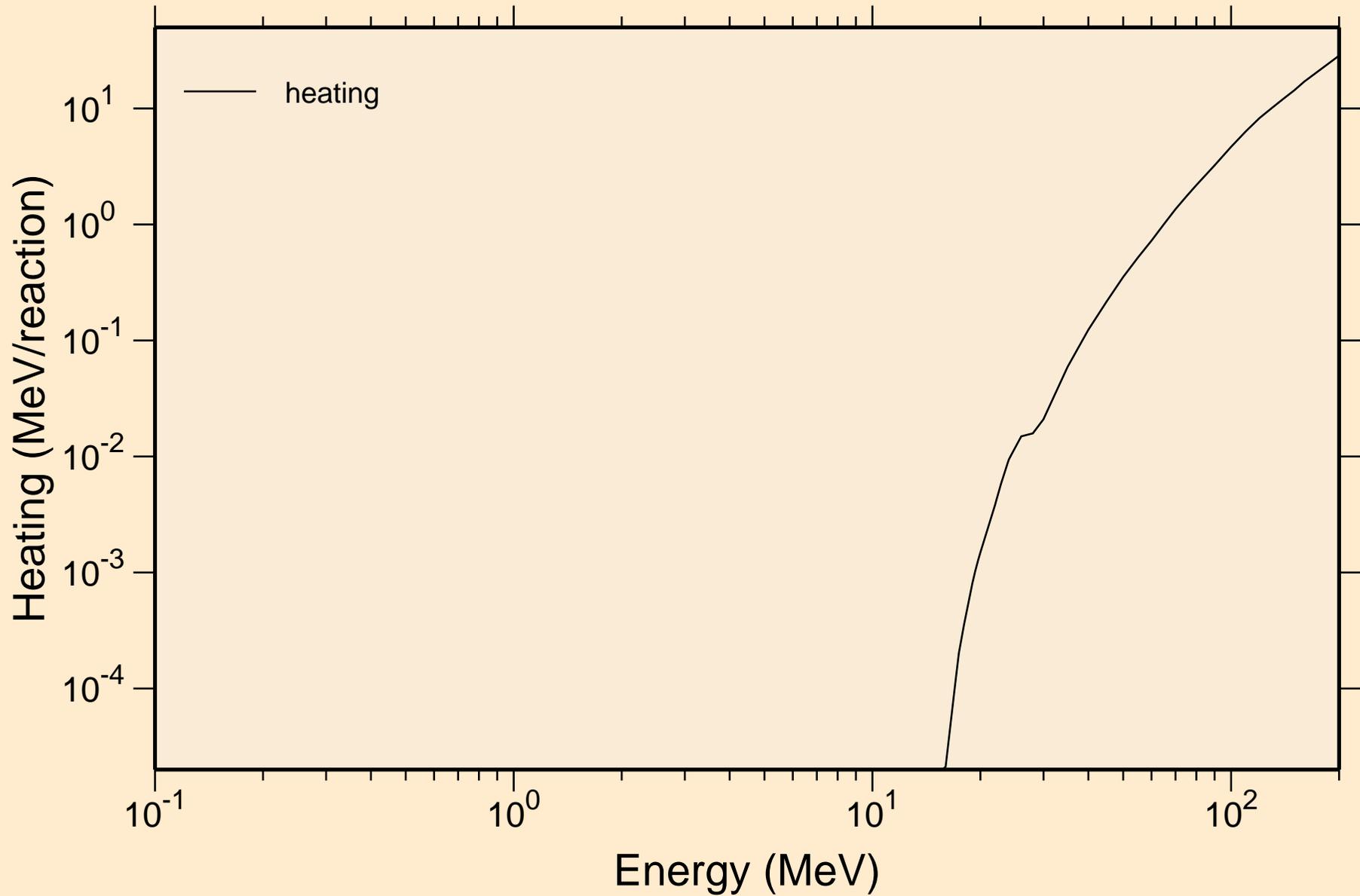TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Principal cross sections
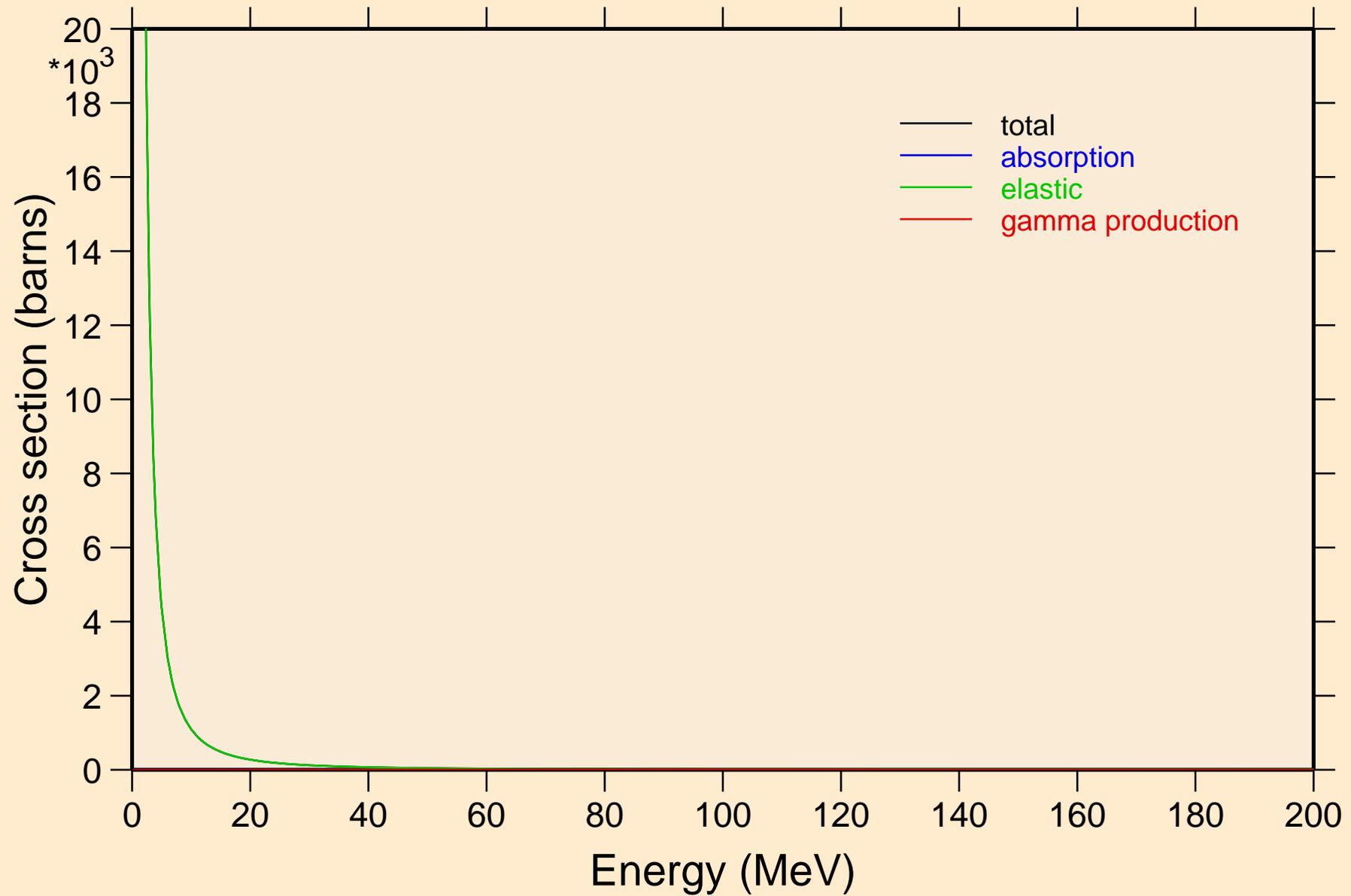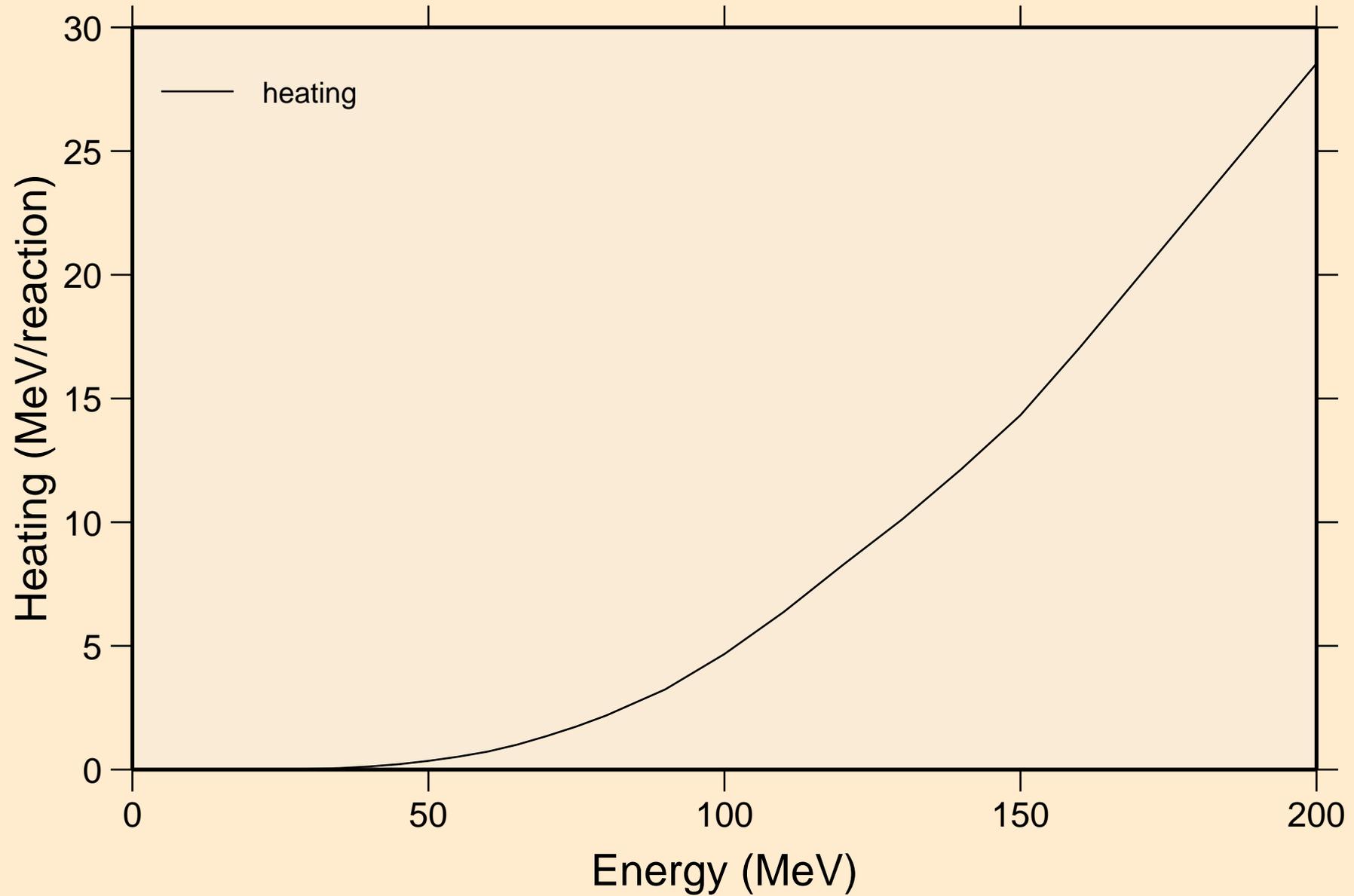
TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Heating

TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Principal cross sections

Legend:
- total
- absorption
- elastic
- gamma production

X-axis: Energy (MeV)
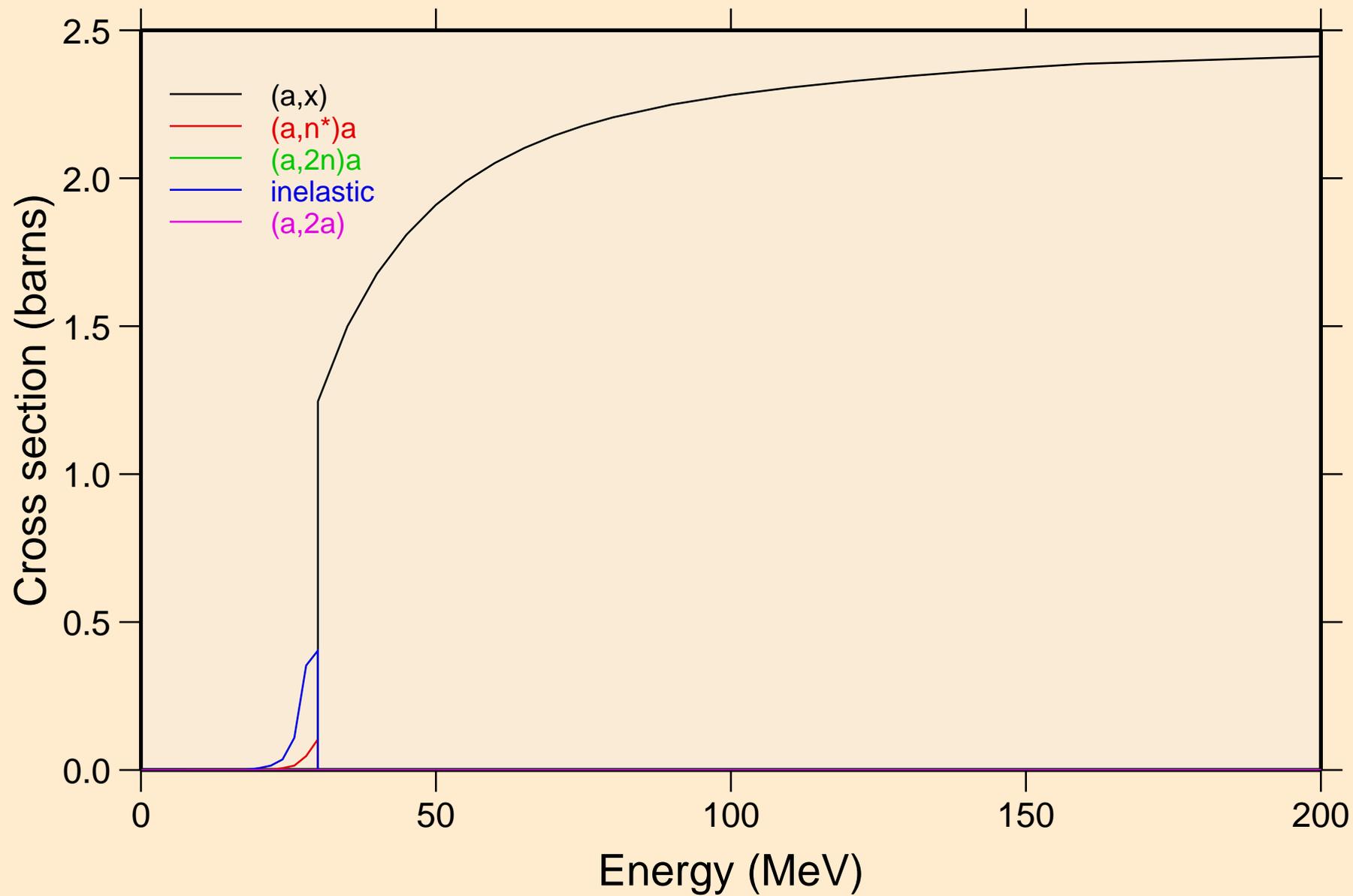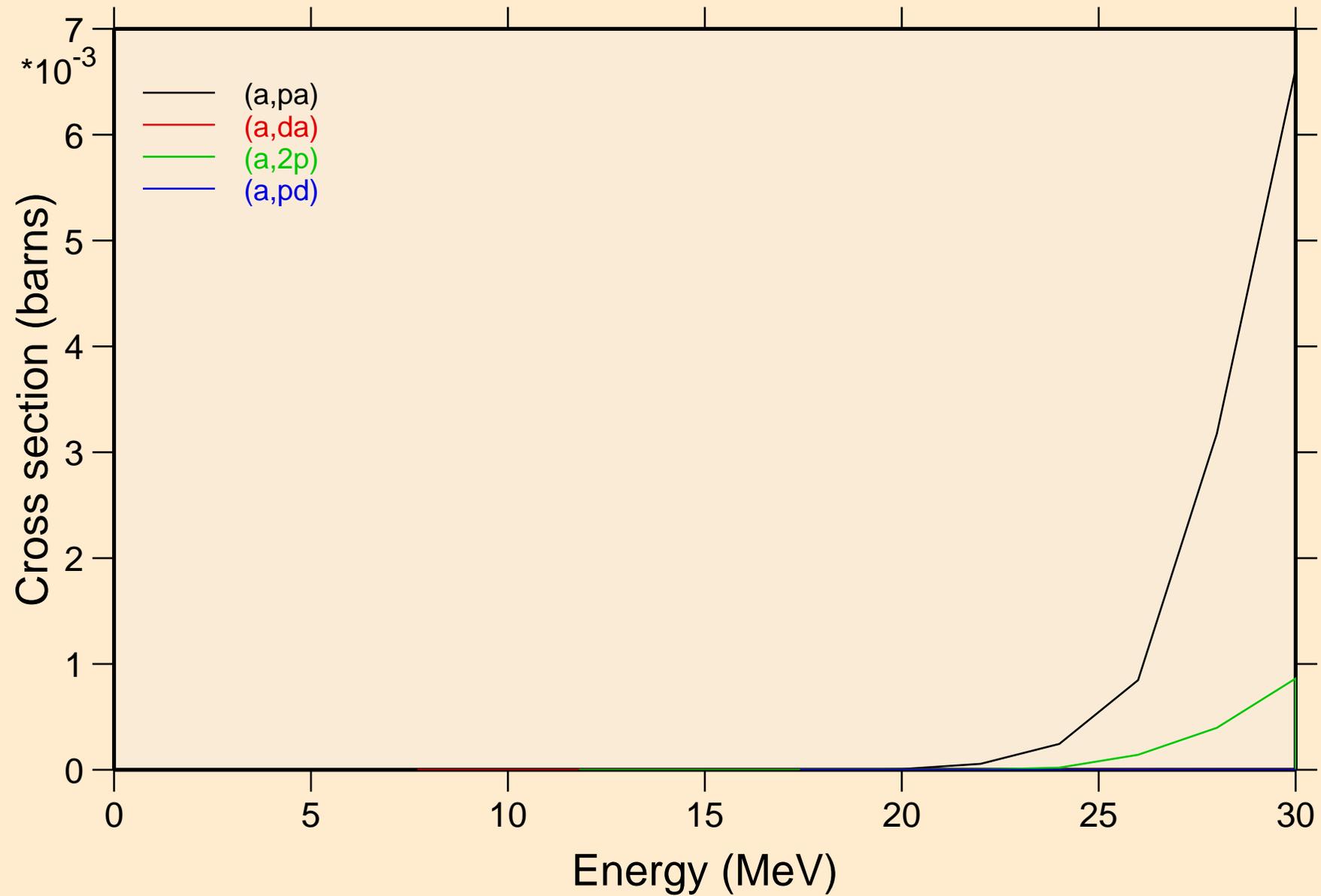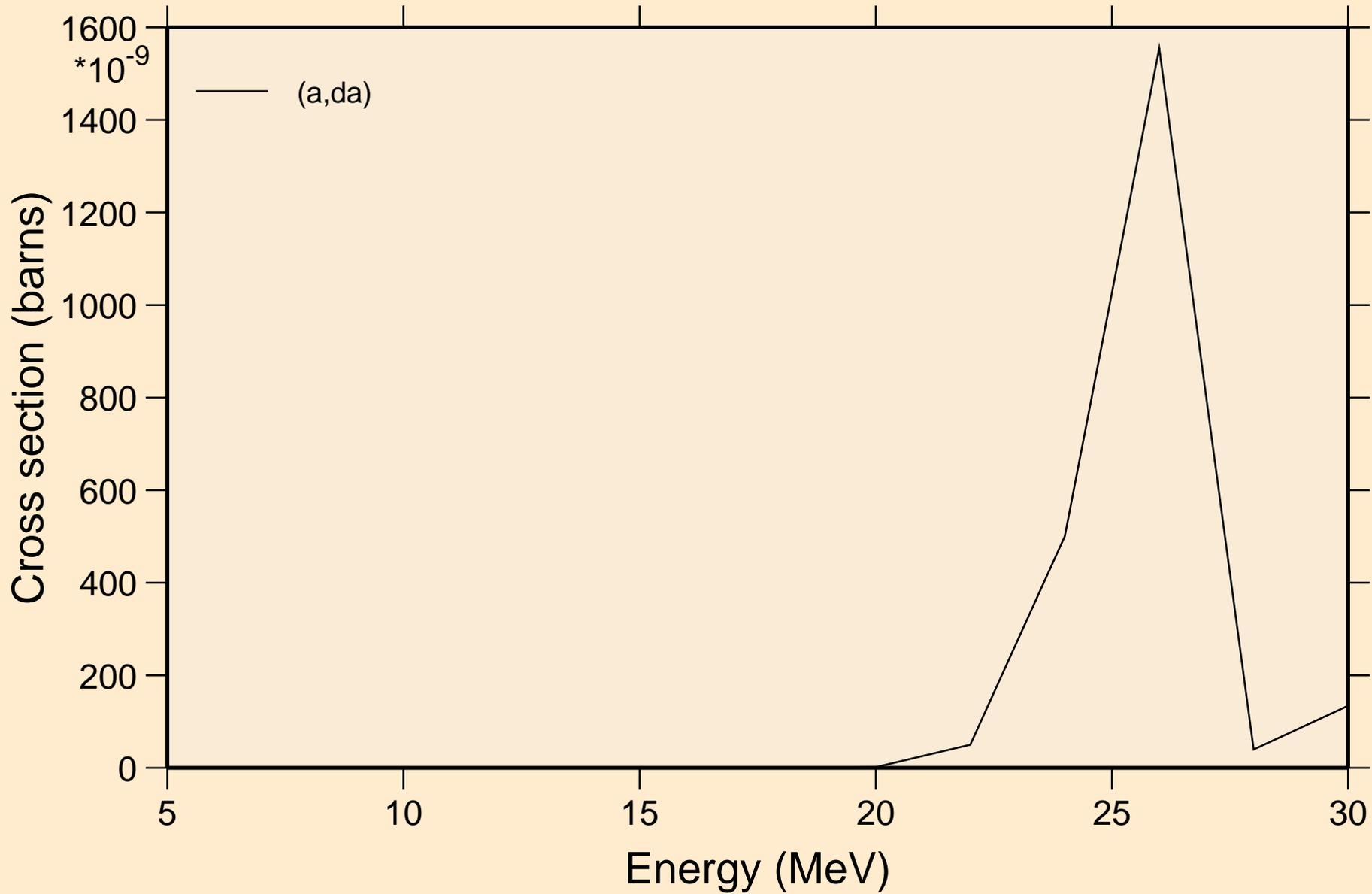Y-axis: Cross section (barns), $*10^3$
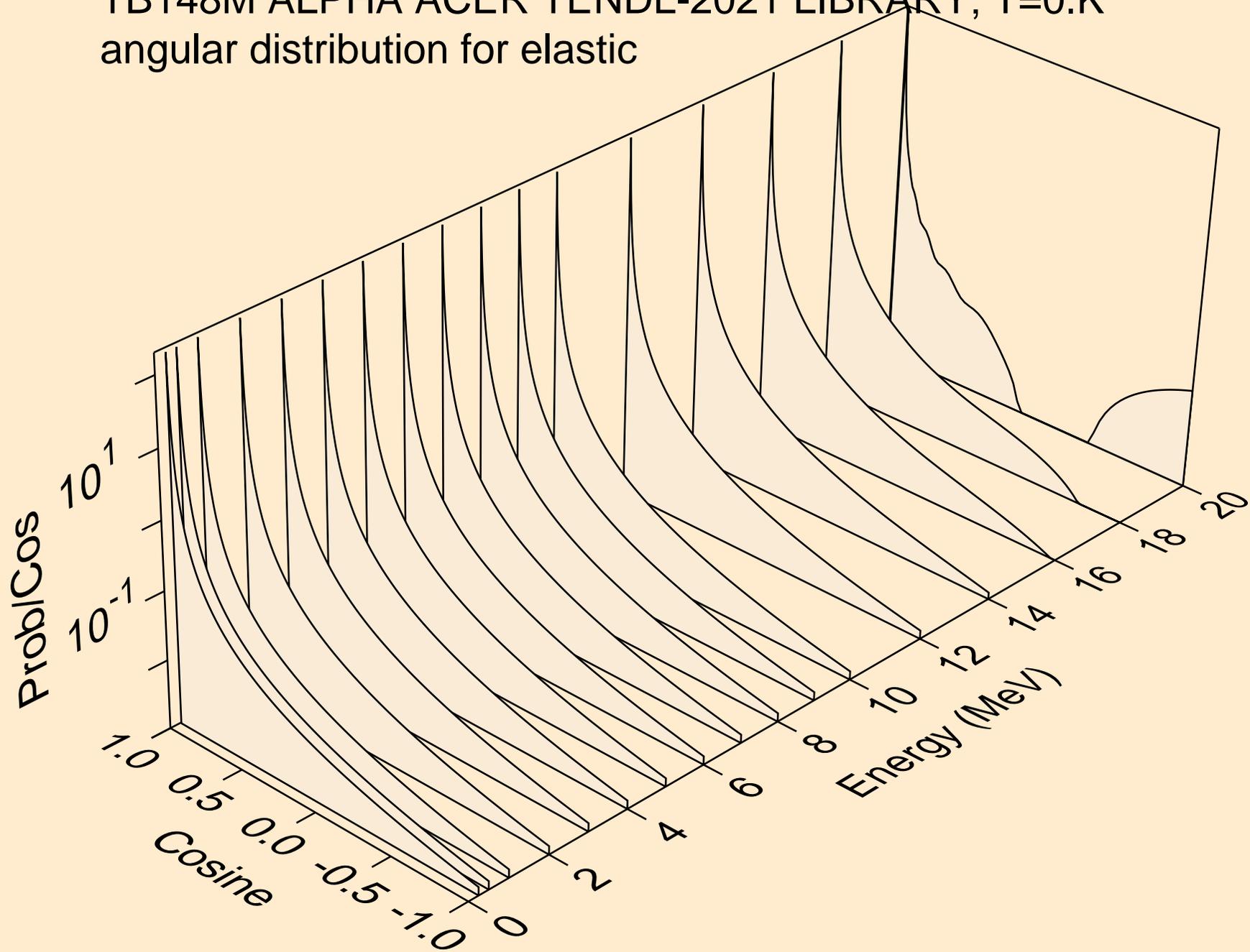
TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Heating

TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Threshold reactions

Legend:
- (a,x)
- (a,n*)a
- (a,2n)a
- inelastic
- (a,2a)

Cross section (barns) vs Energy (MeV)

TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Threshold reactions

Cross section (barns)

Energy (MeV)

*10$^{-3}$
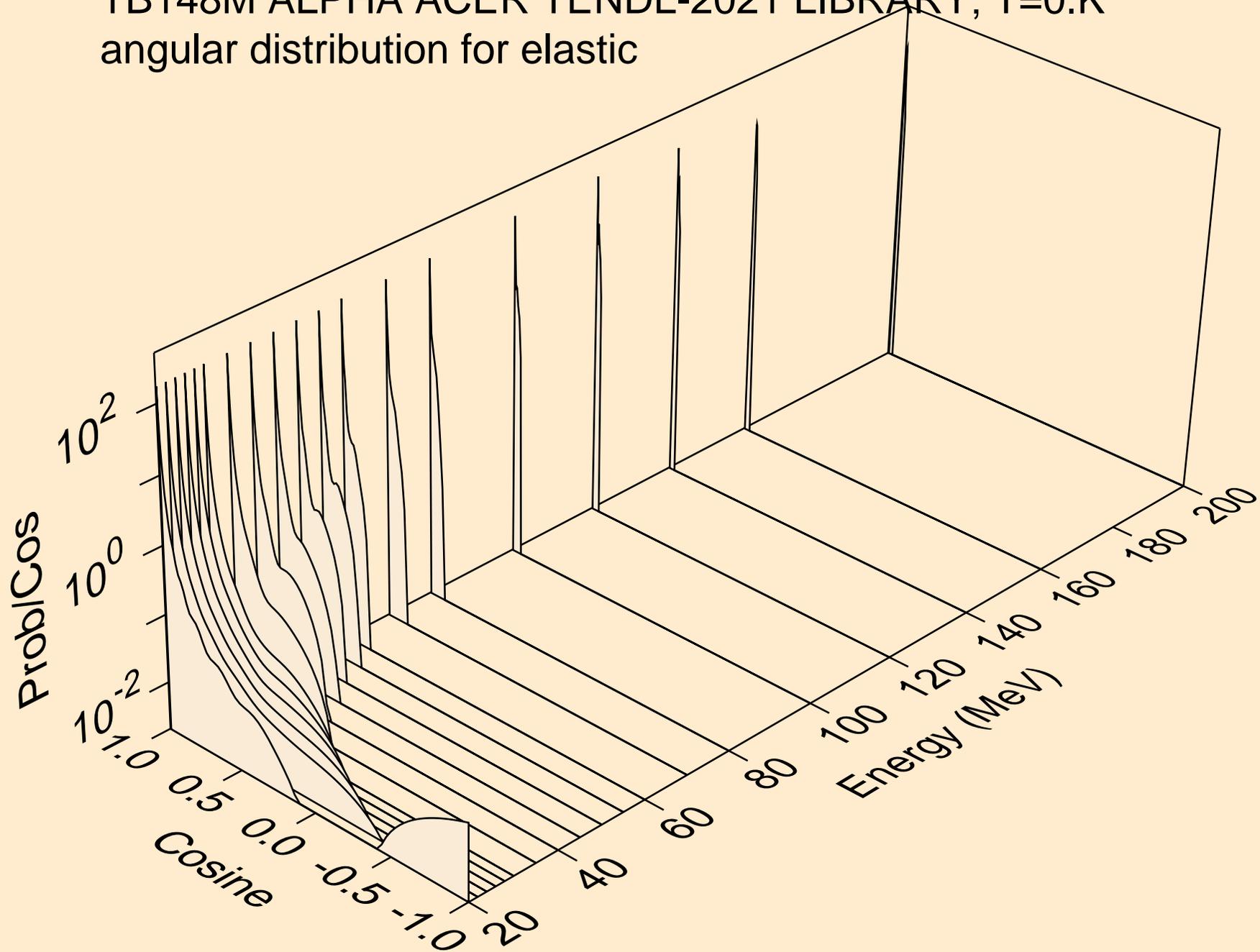
(a,pa)
(a,da)
(a,2p)
(a,pd)

TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
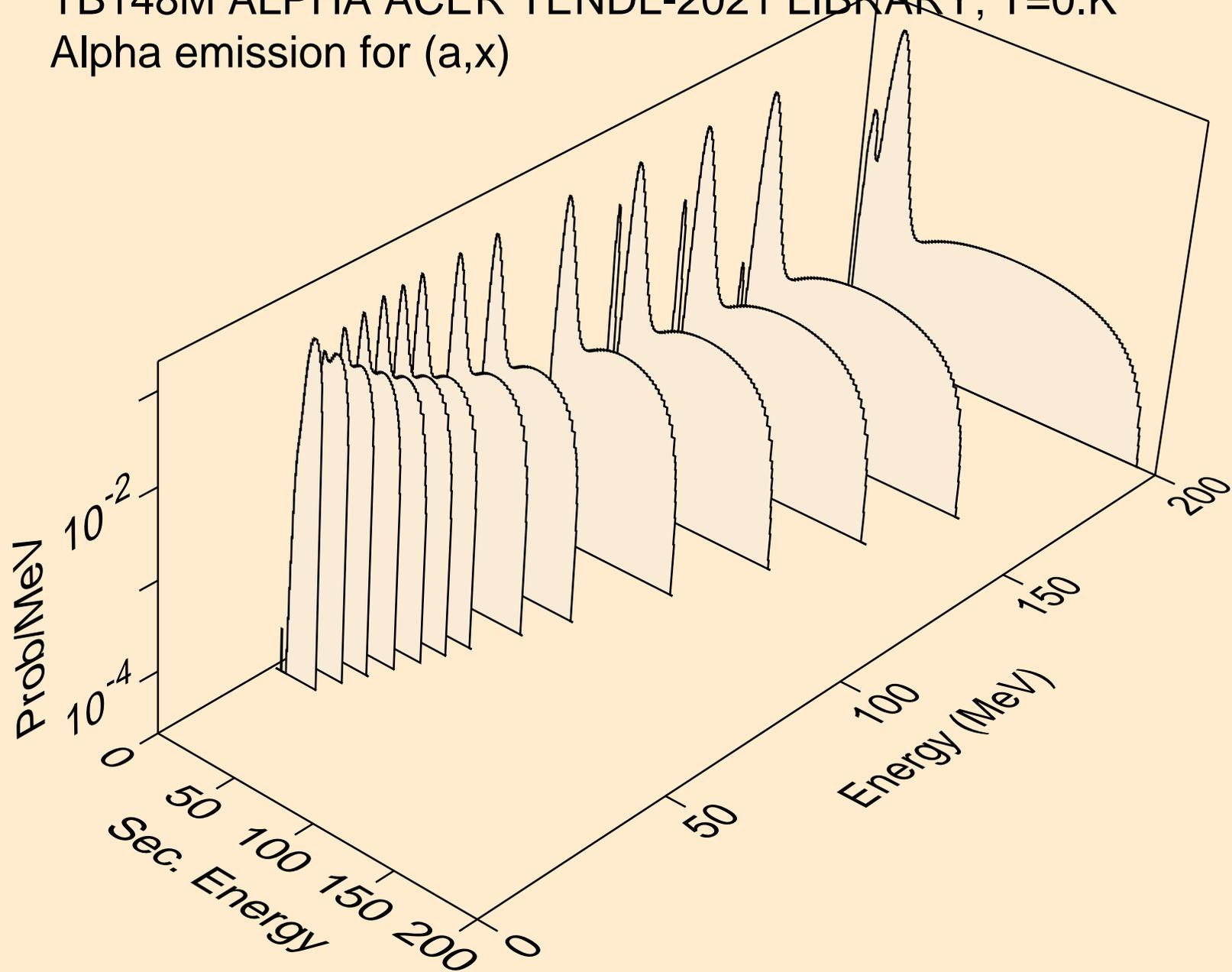Threshold reactions

(a,da)

TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
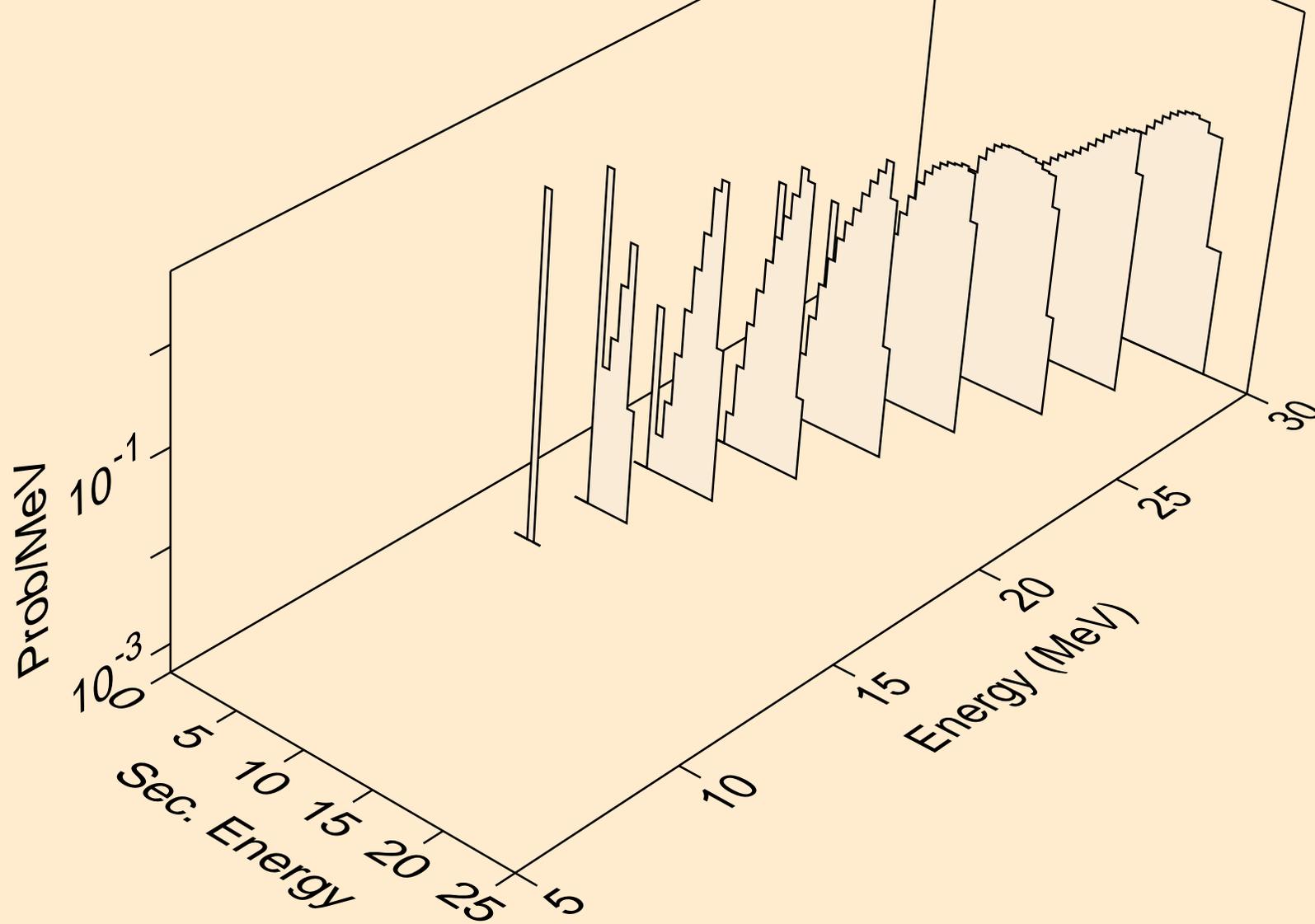angular distribution for elastic

TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
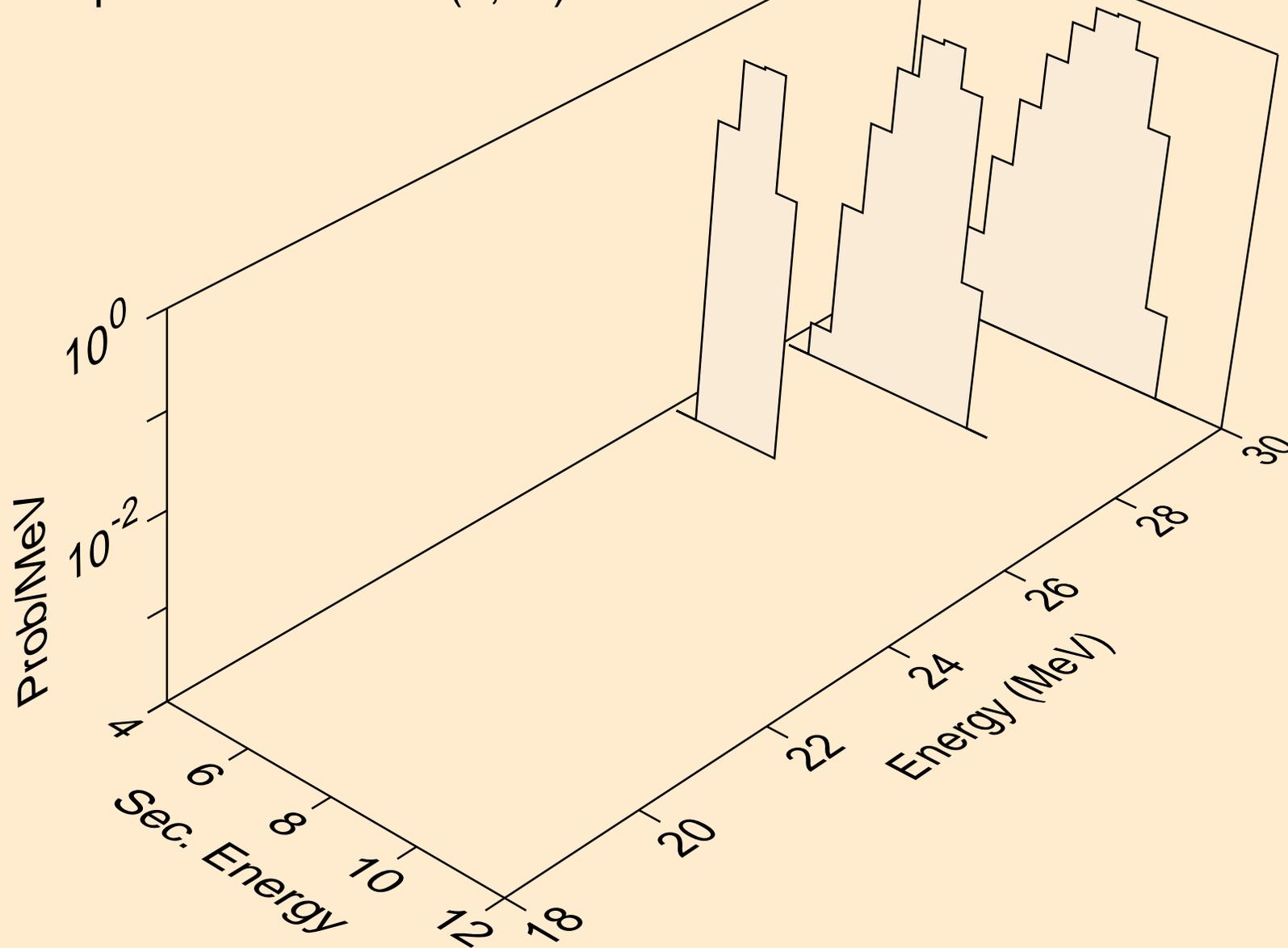angular distribution for elastic

TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
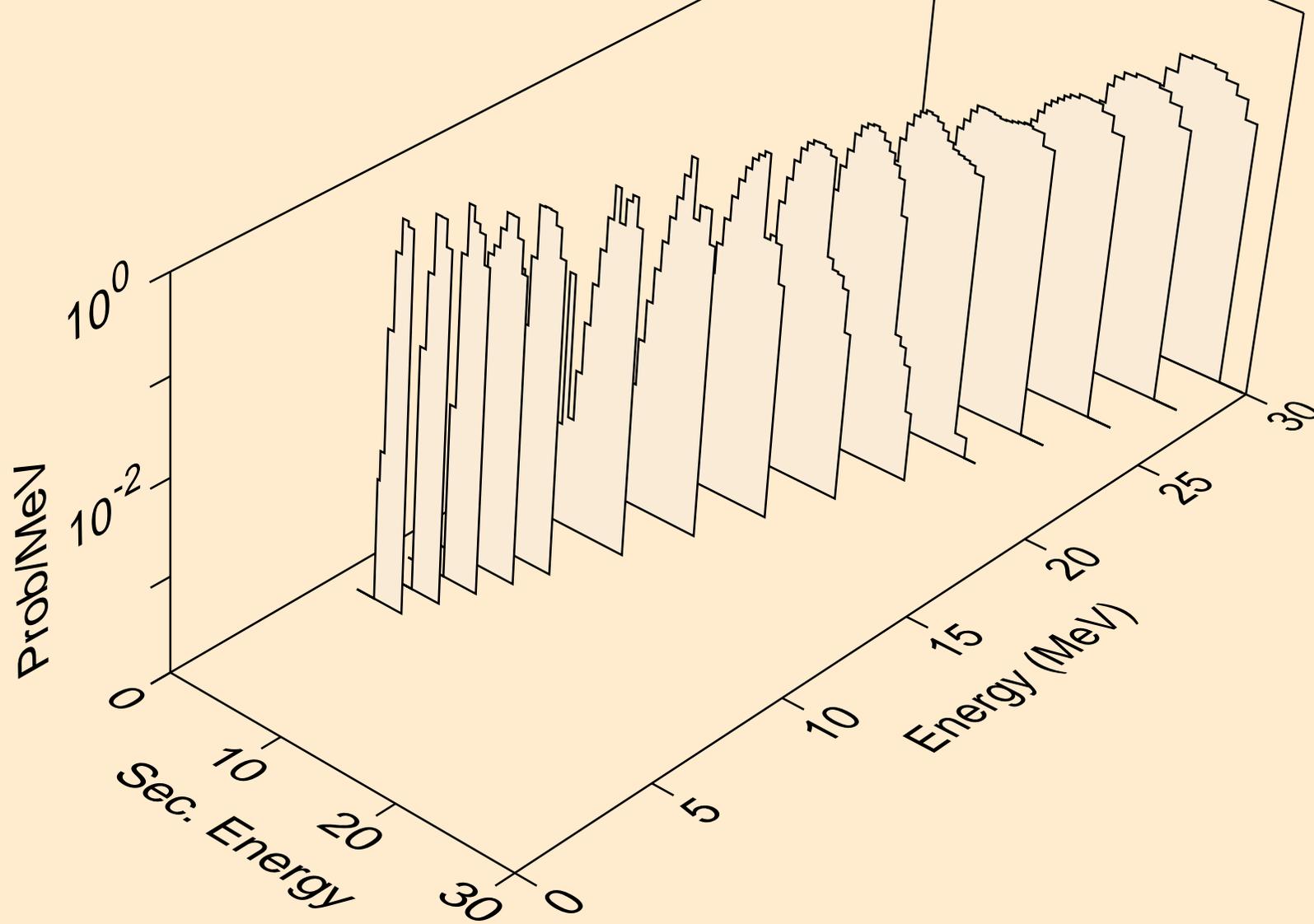Alpha emission for (a,x)

TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
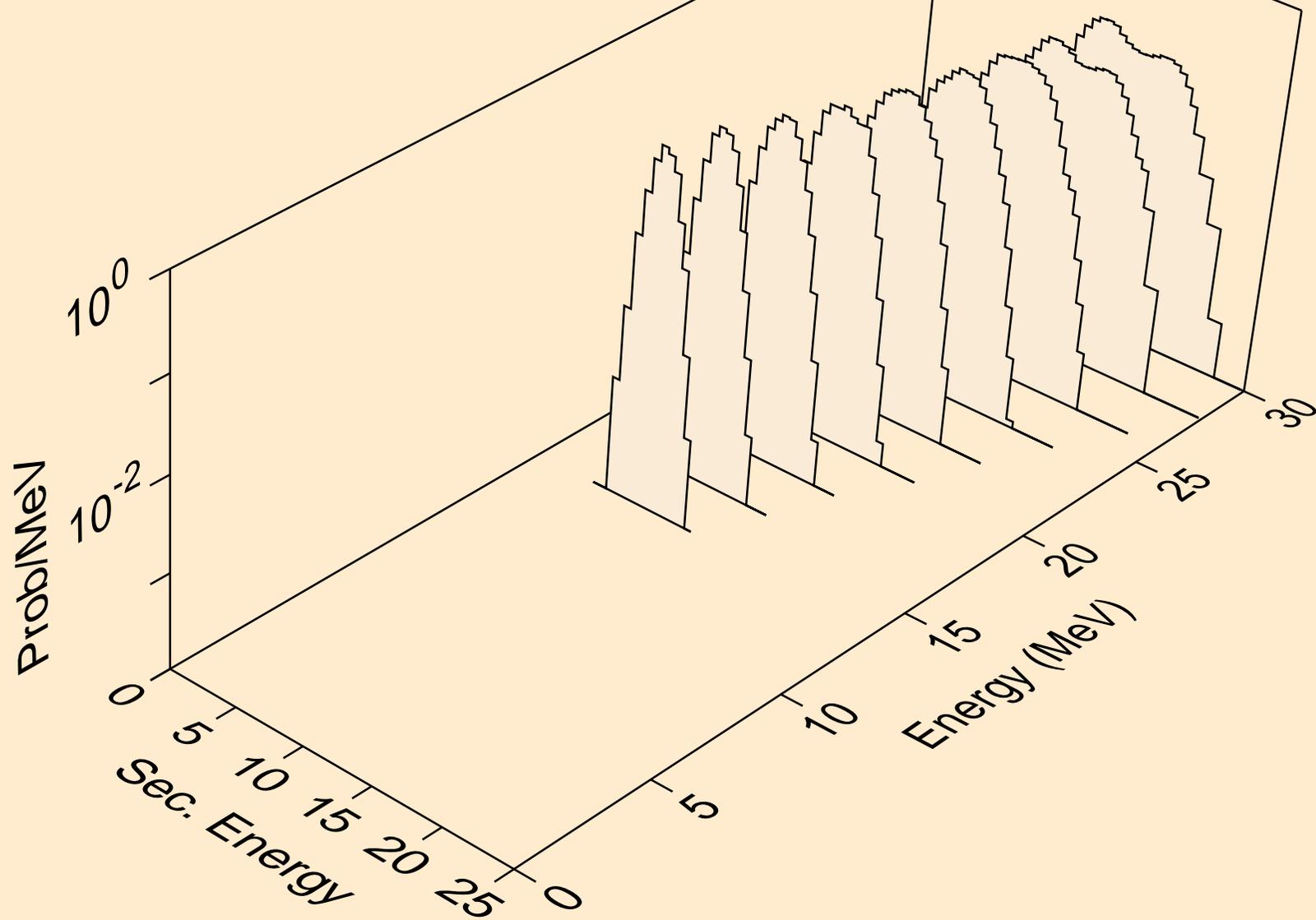Alpha emission for (a,n*)a

TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
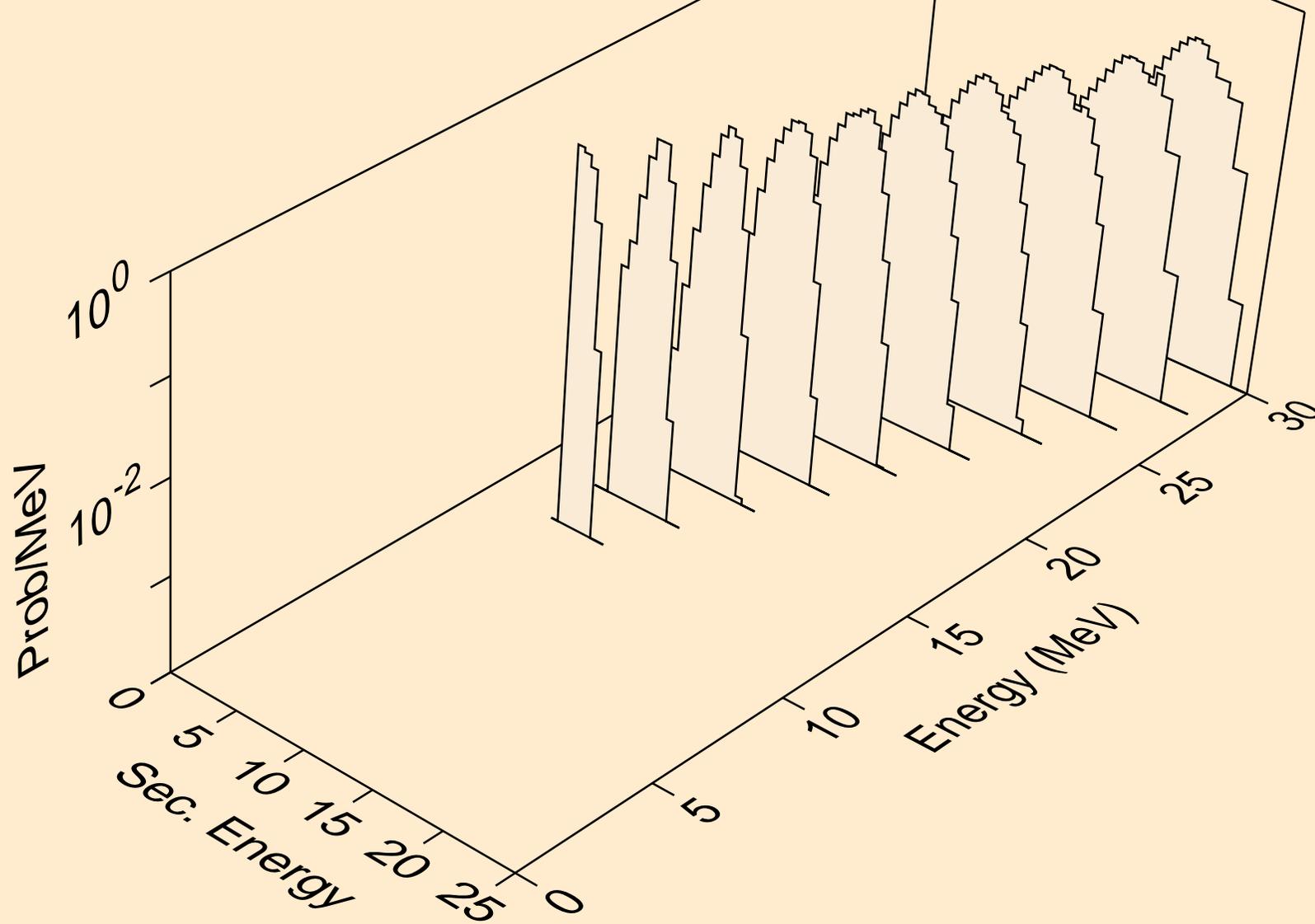Alpha emission for (a,2n)a

TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
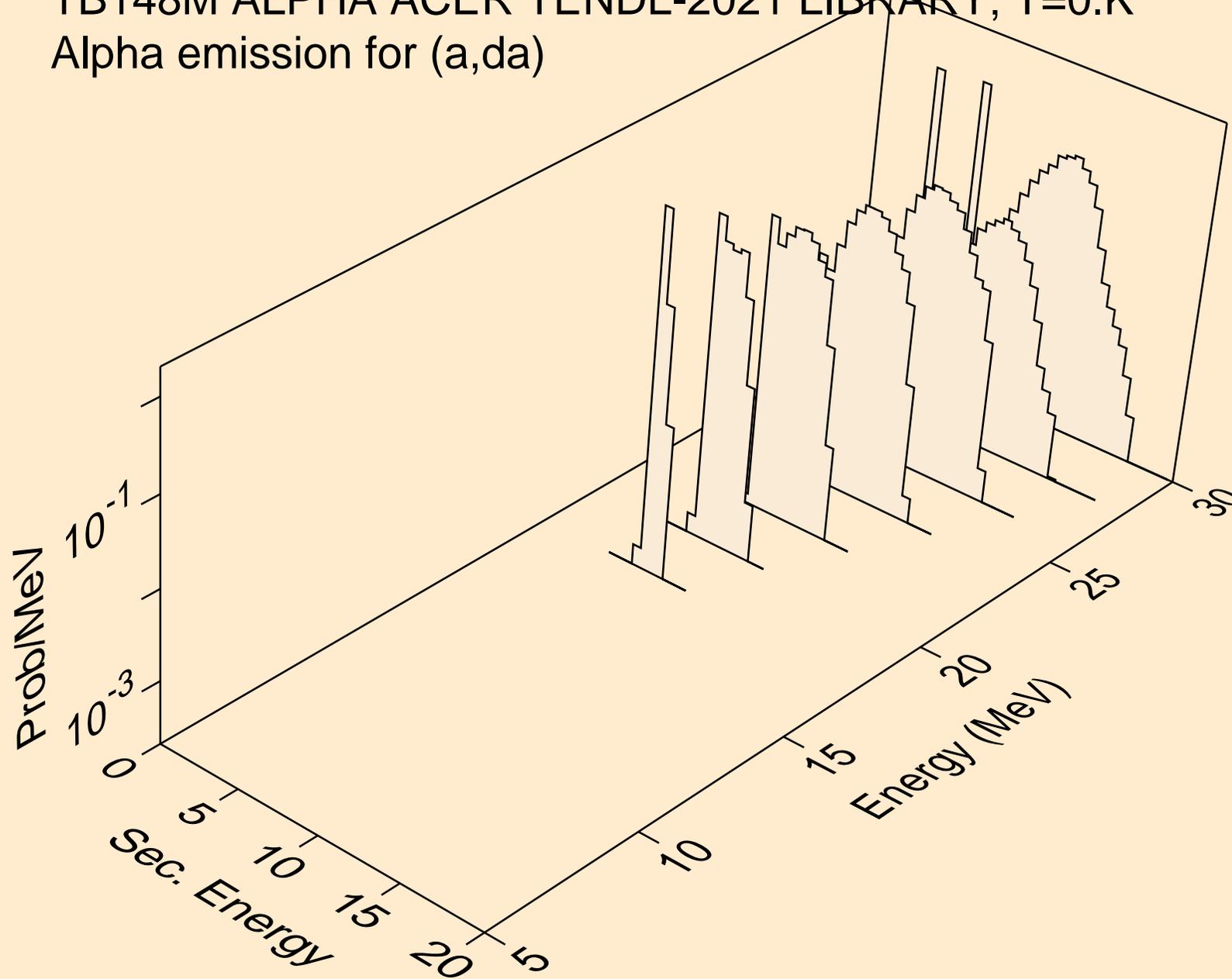Alpha emission for inelastic

TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
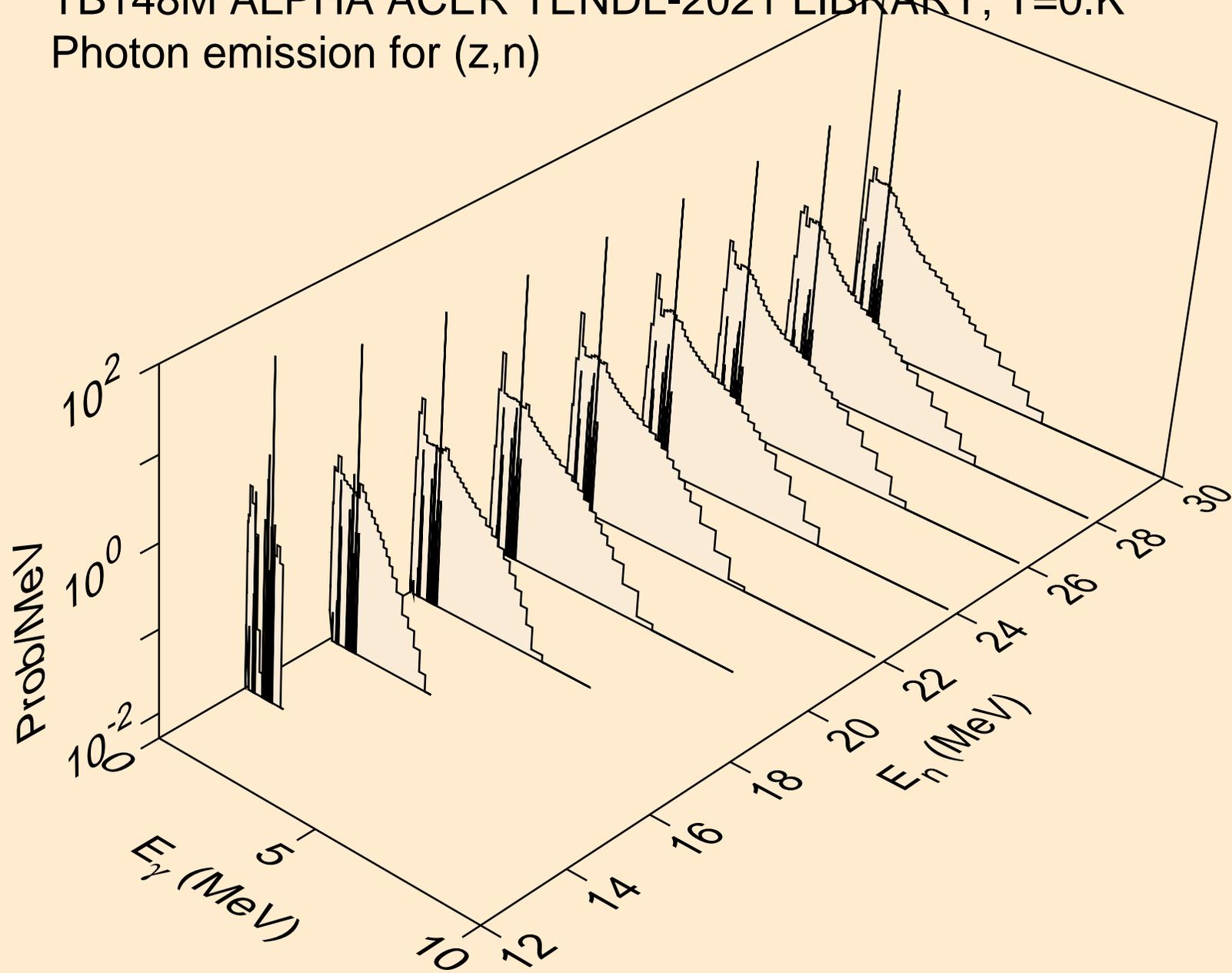Alpha emission for (a,2a)

TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
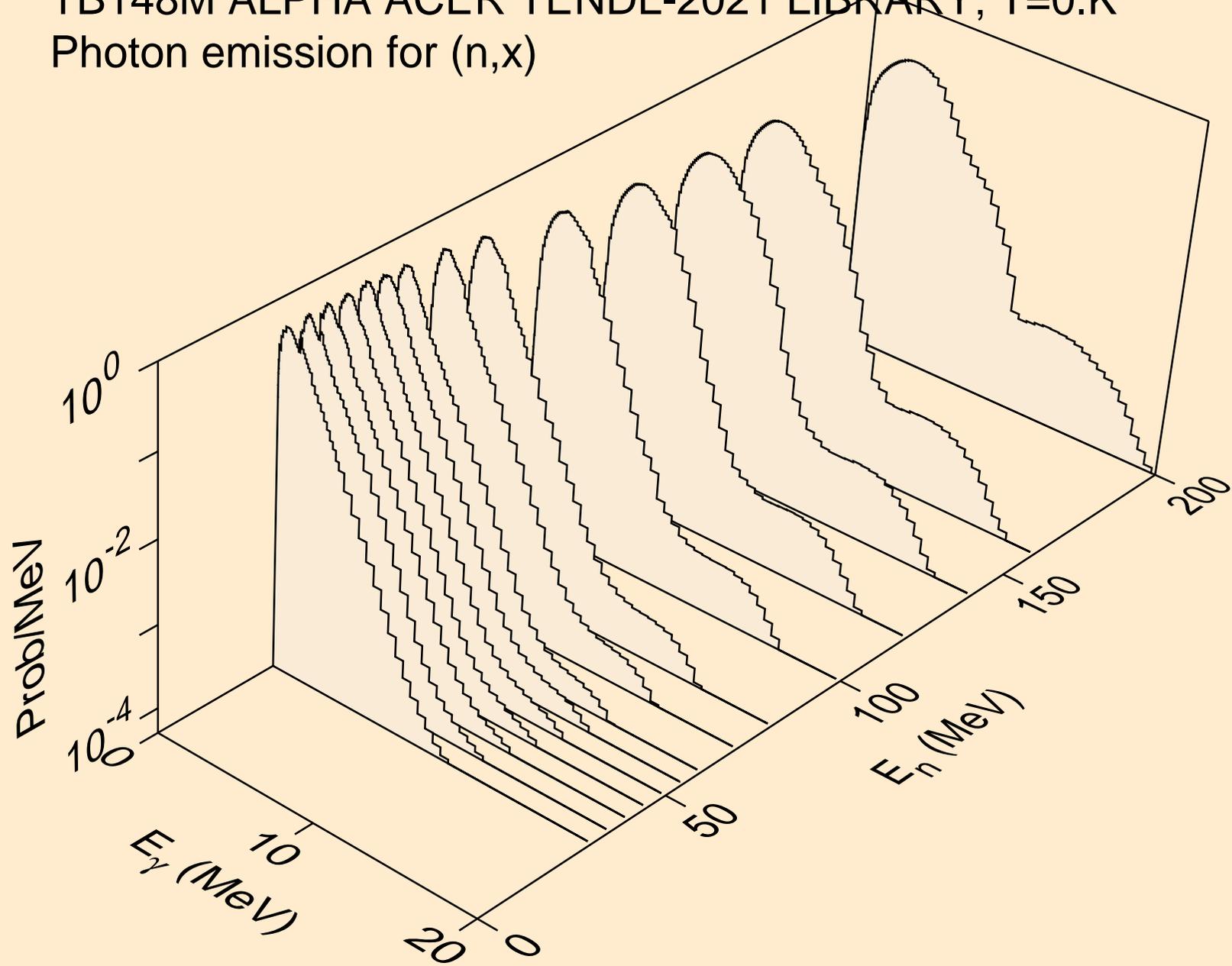Alpha emission for (a,pa)

TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
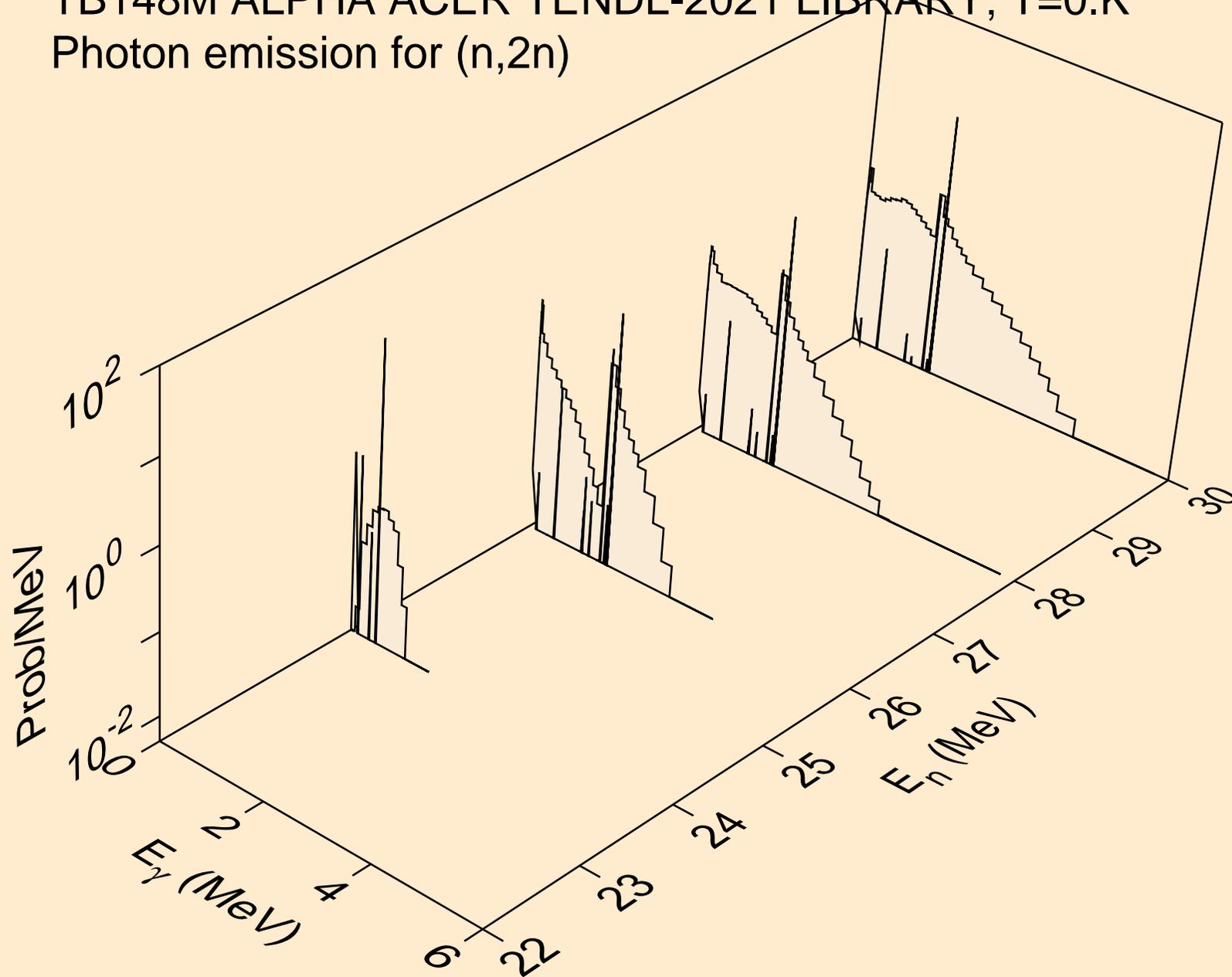Alpha emission for (a,da)

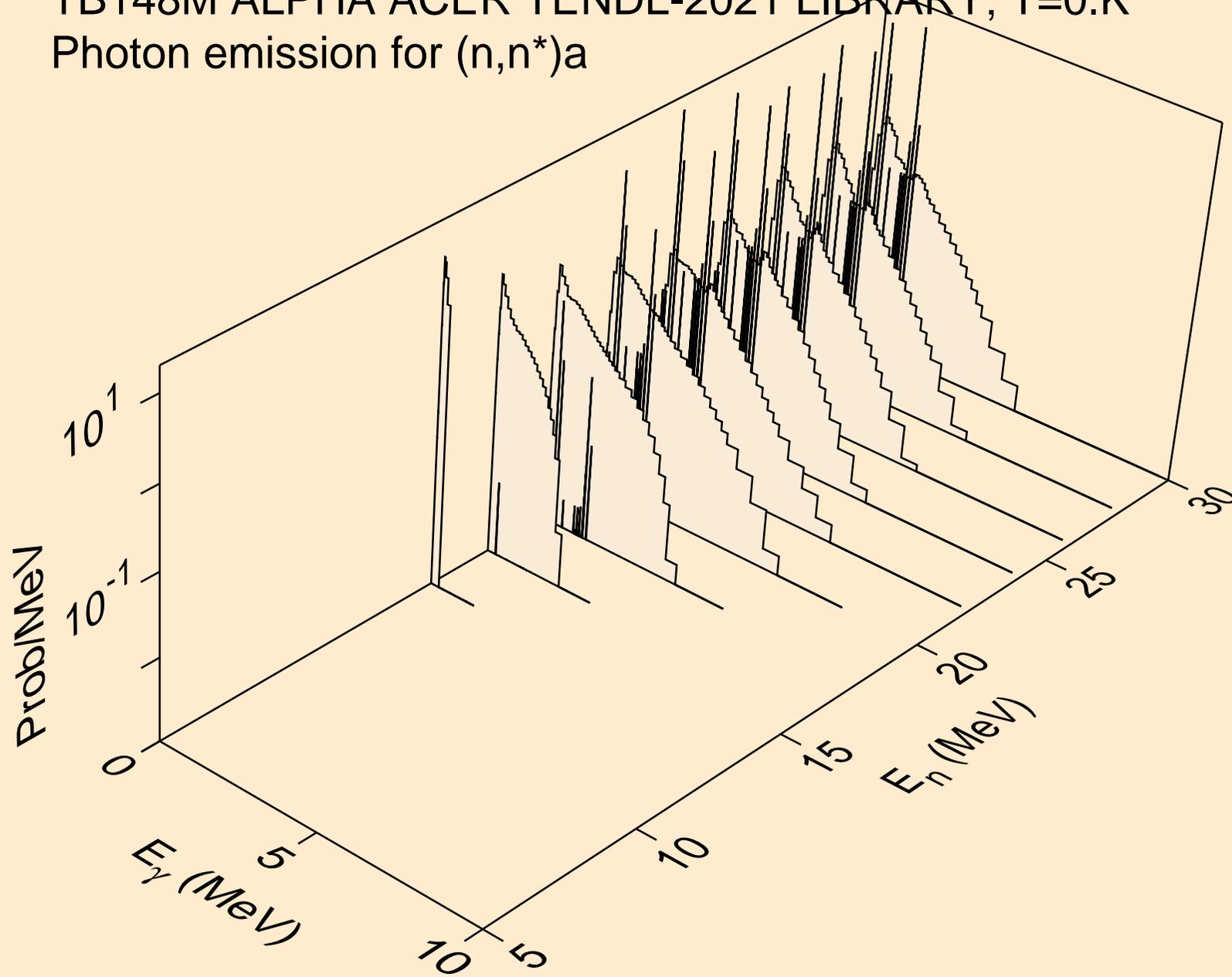TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (z,n)

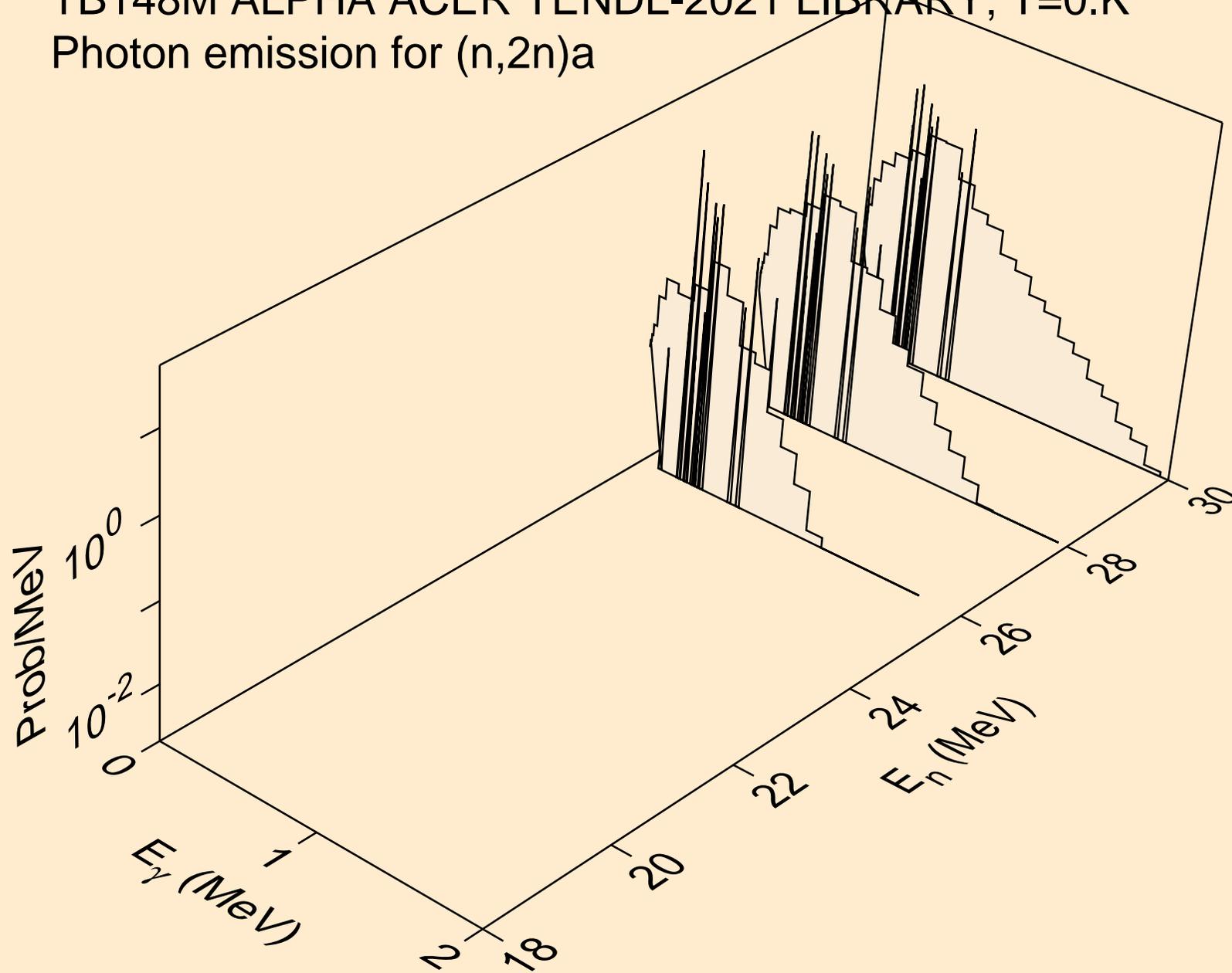TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,x)

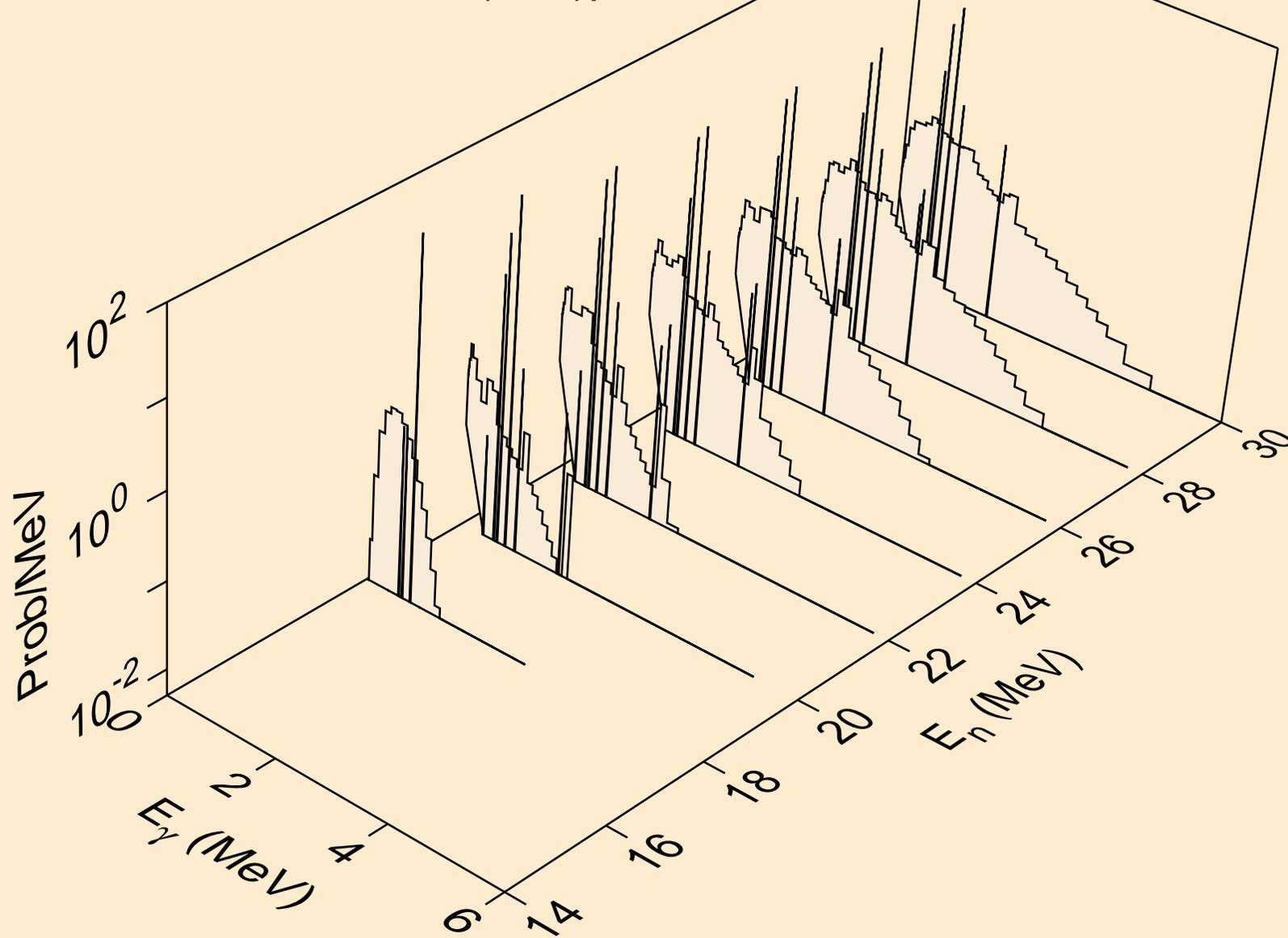TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,2n)

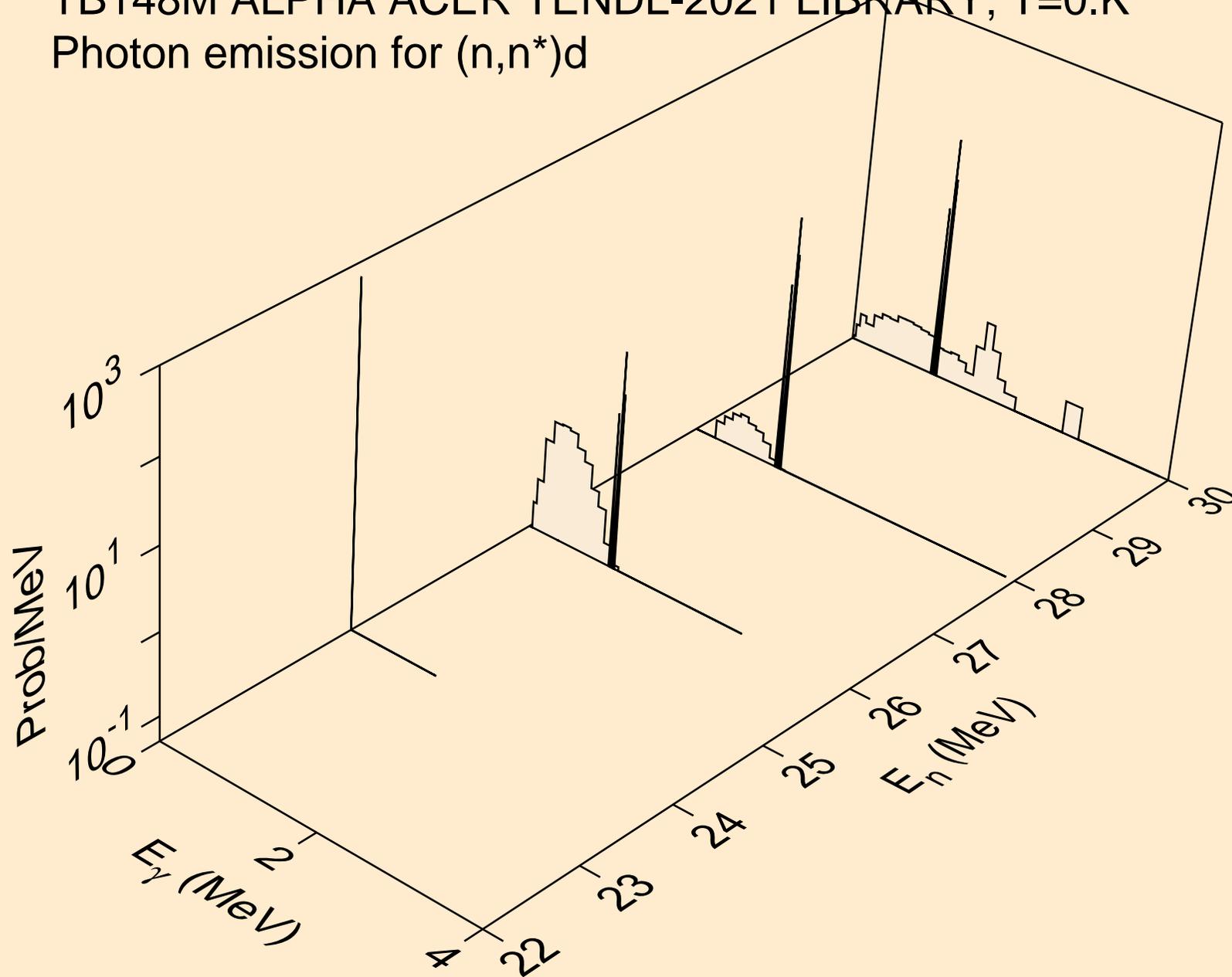TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,n*)a

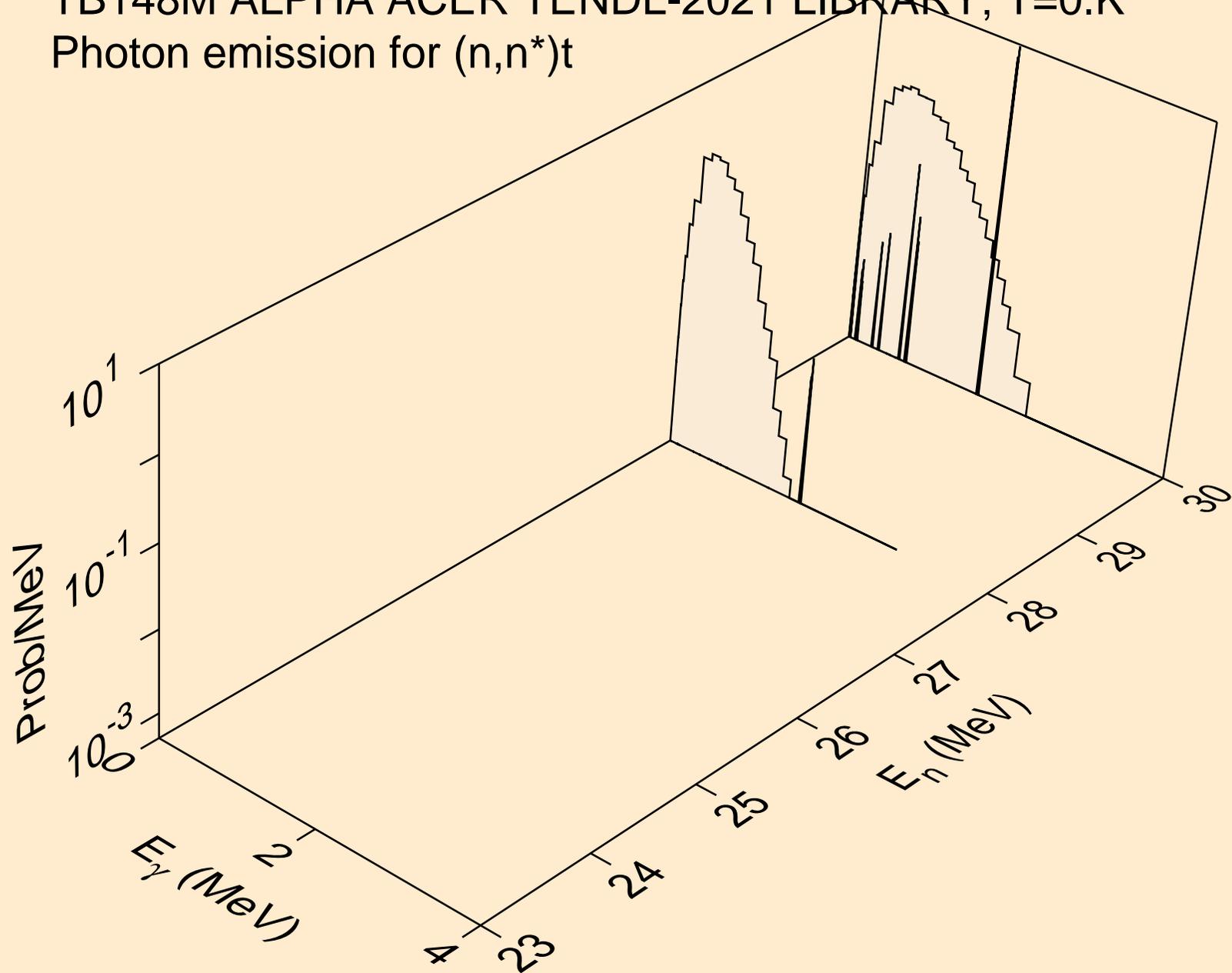TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,2n)a

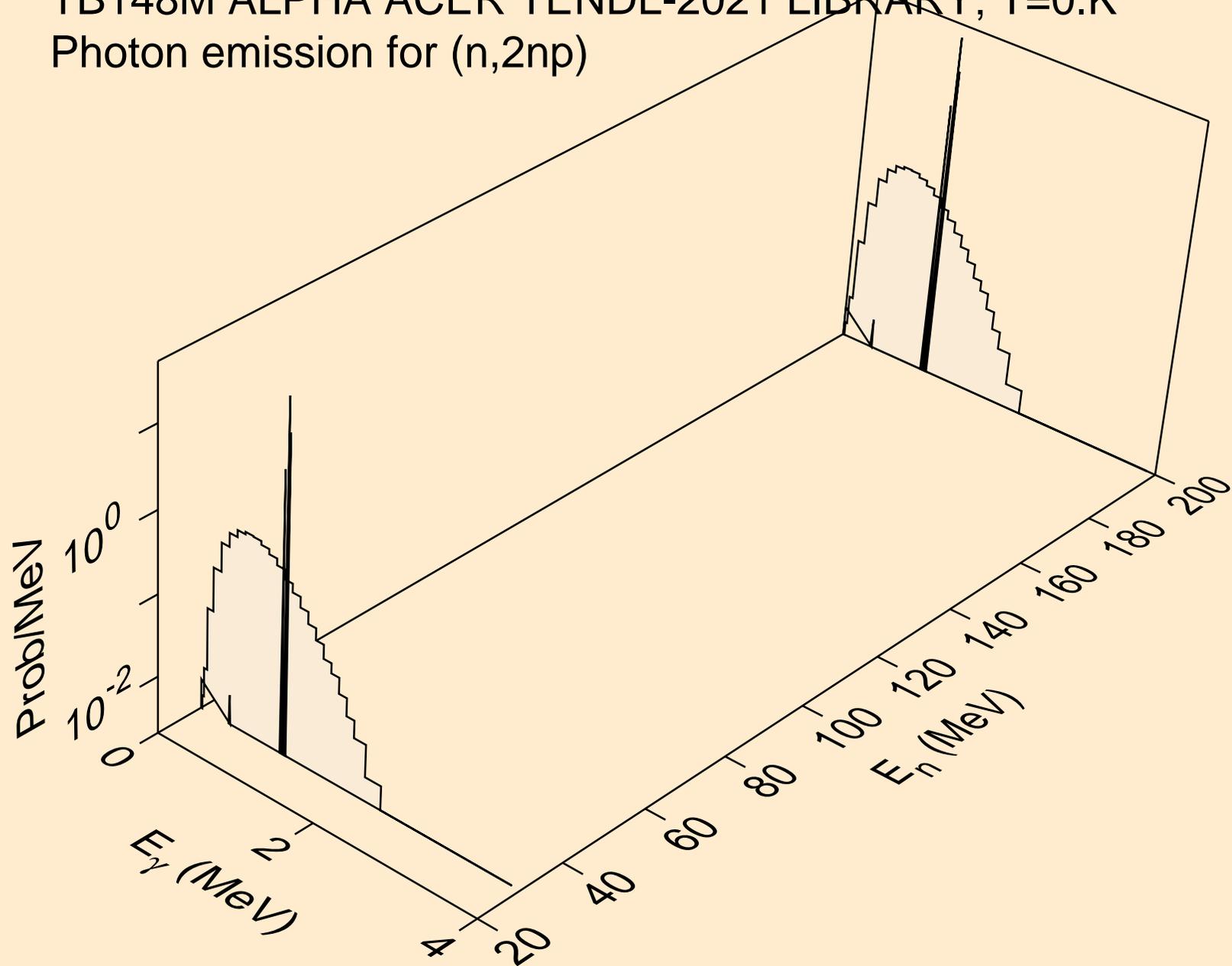TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,n*)p

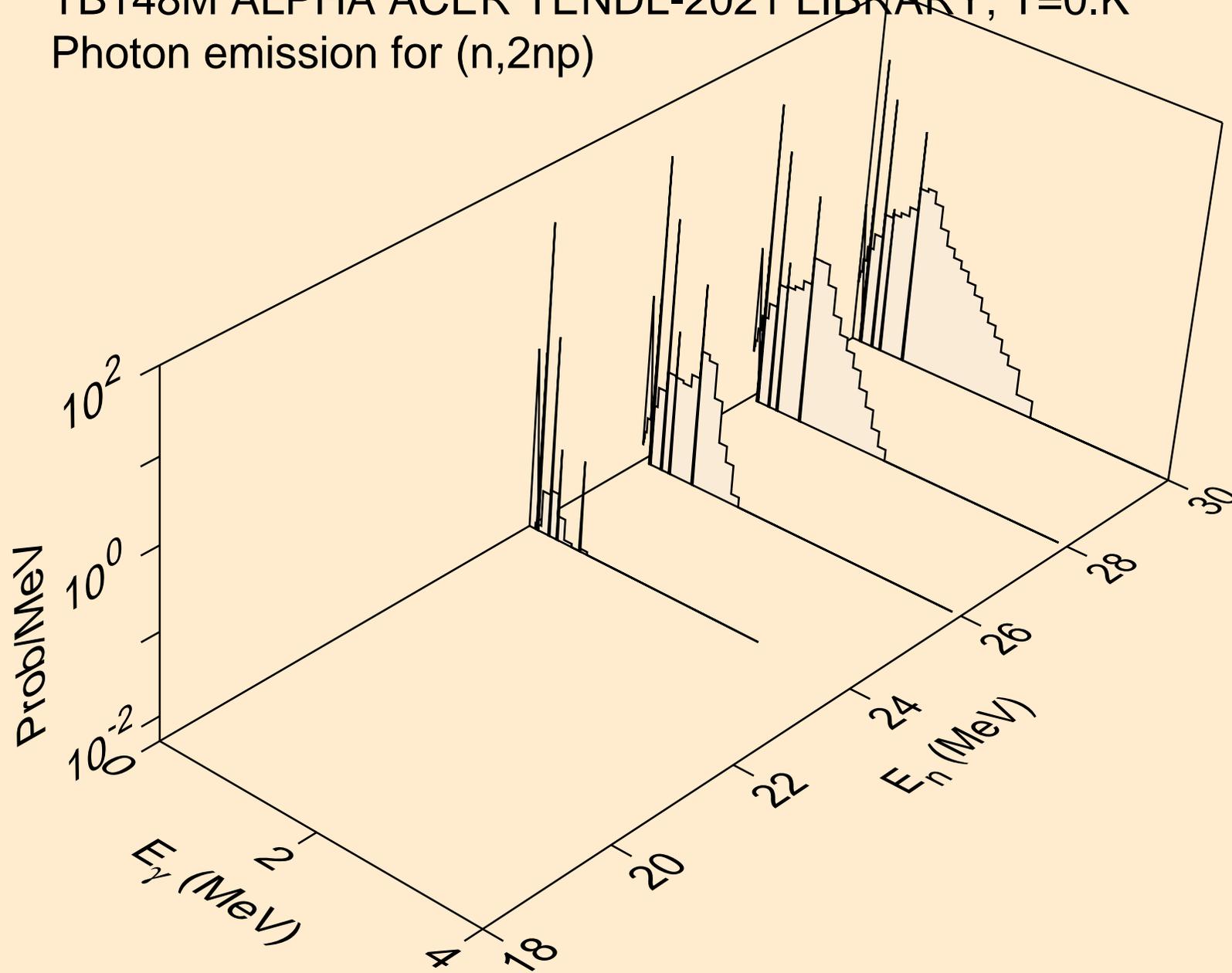TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,n*)d

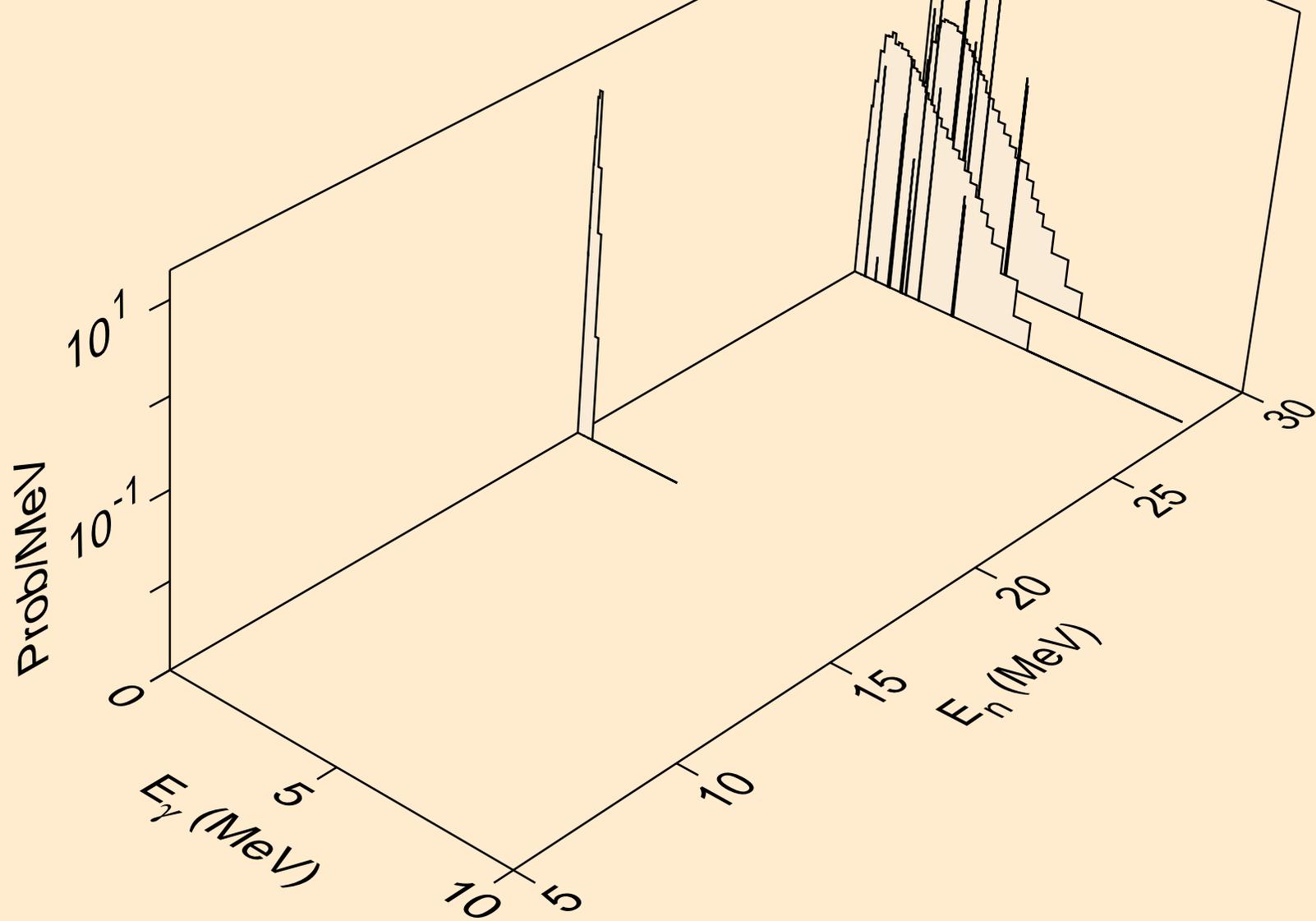TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,n*)t

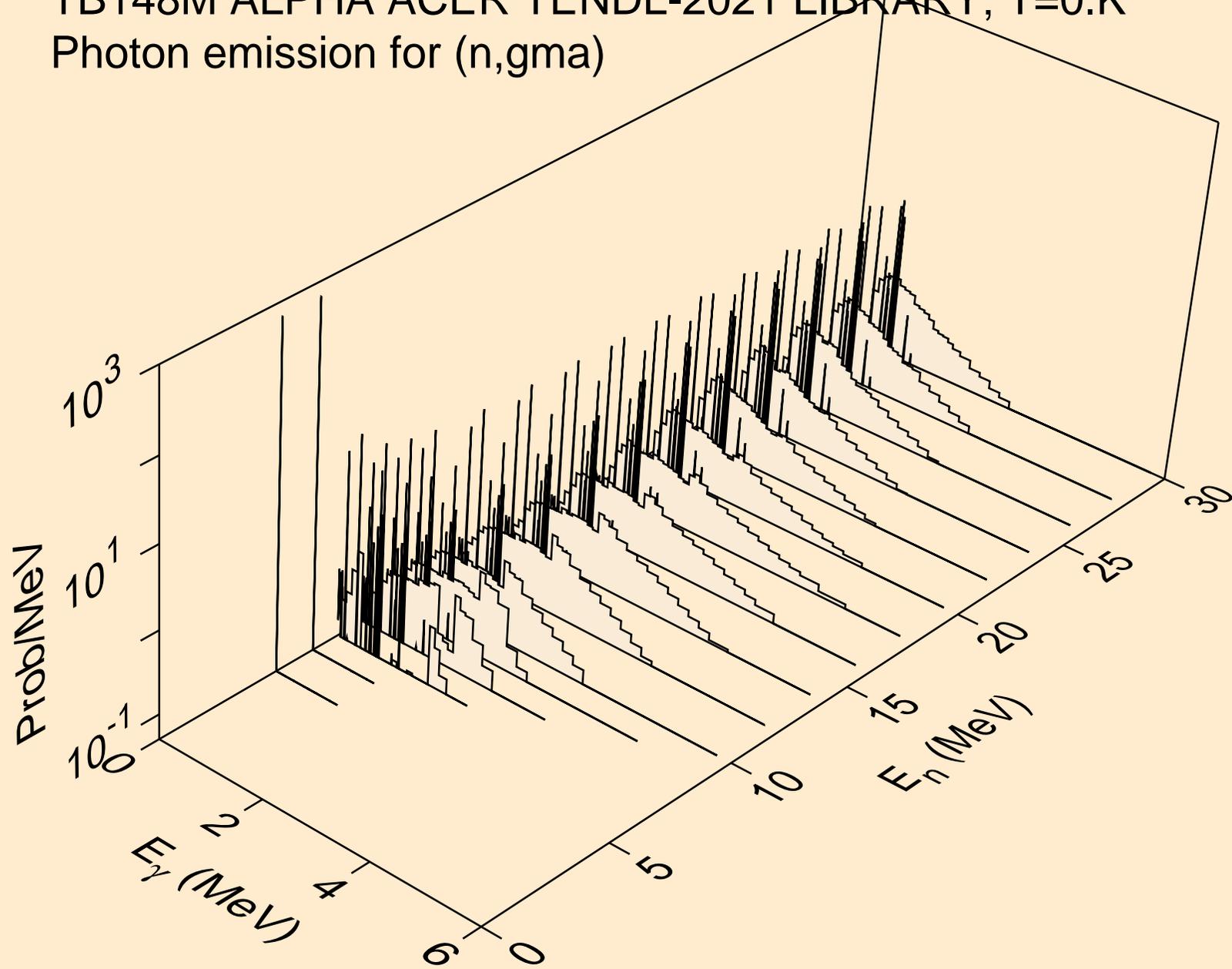TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,2np)

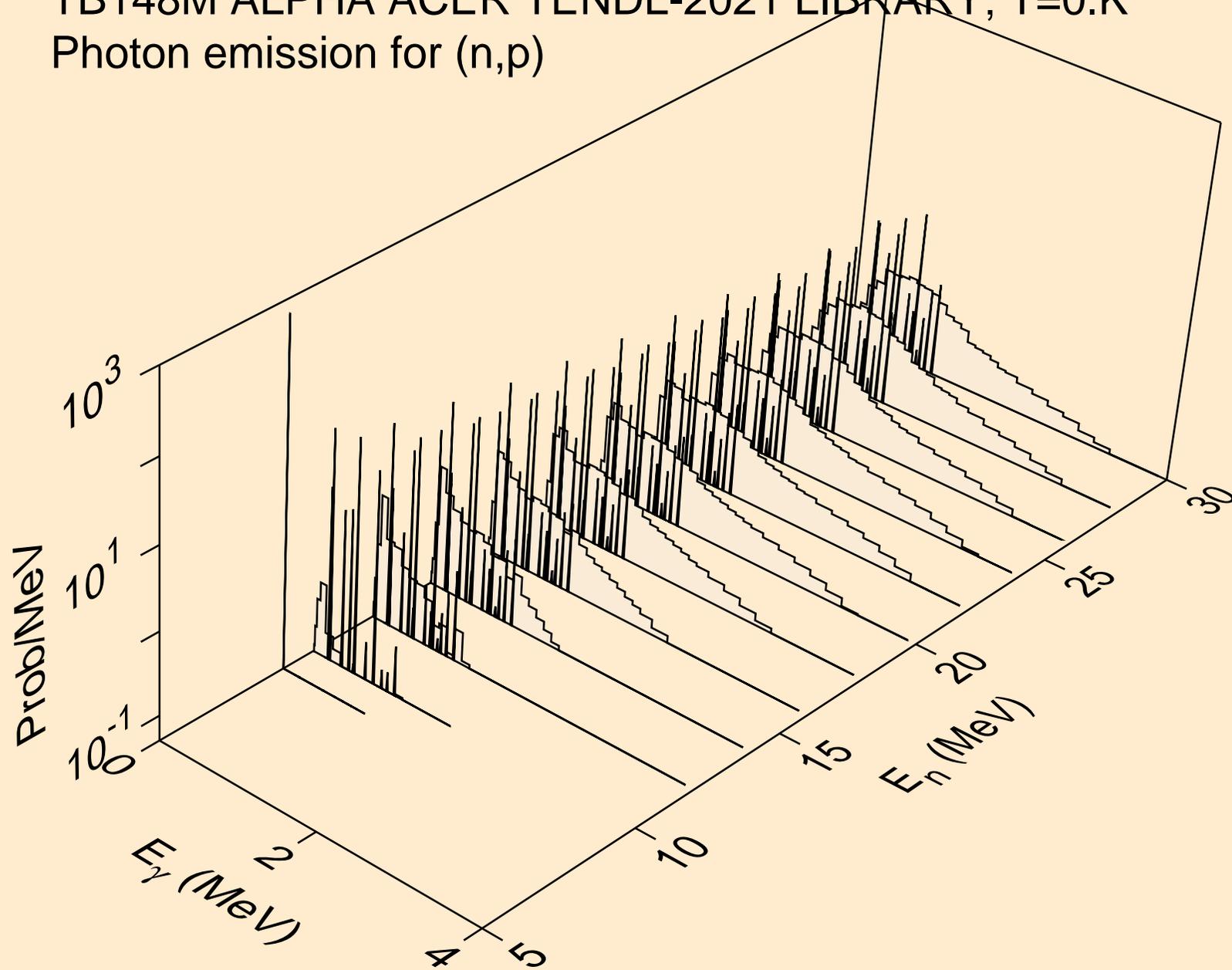TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,2np)

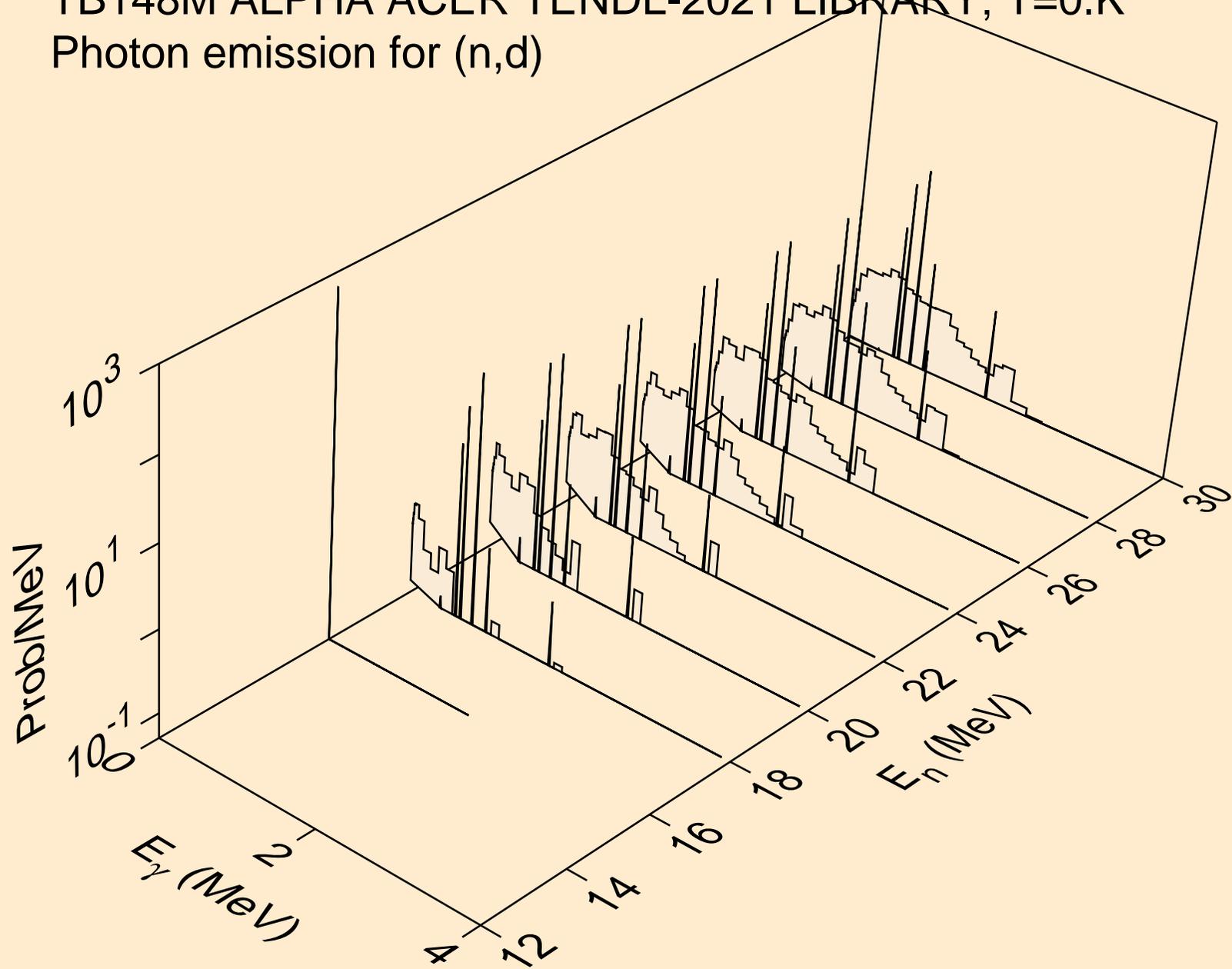TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,npa)

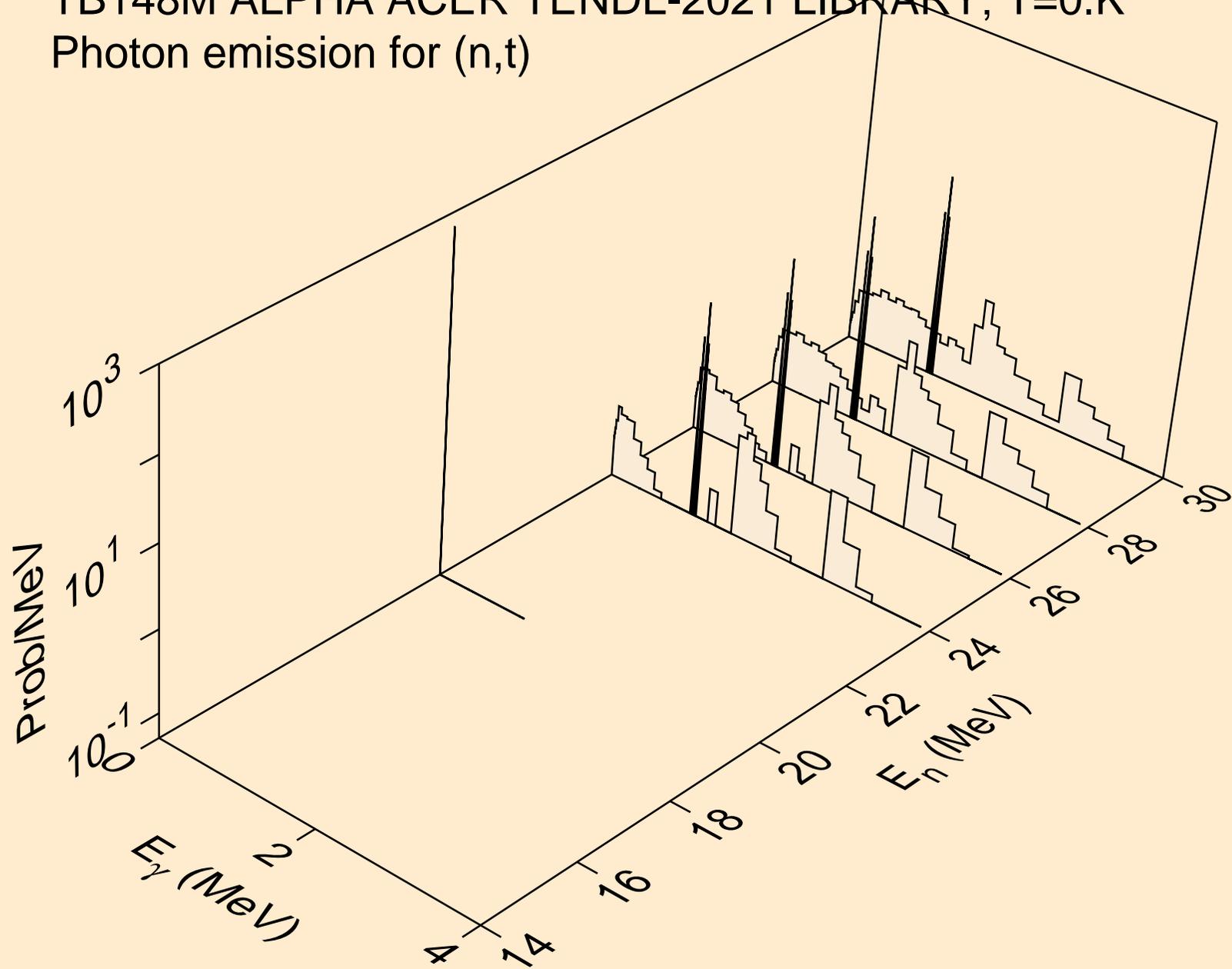TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,gma)

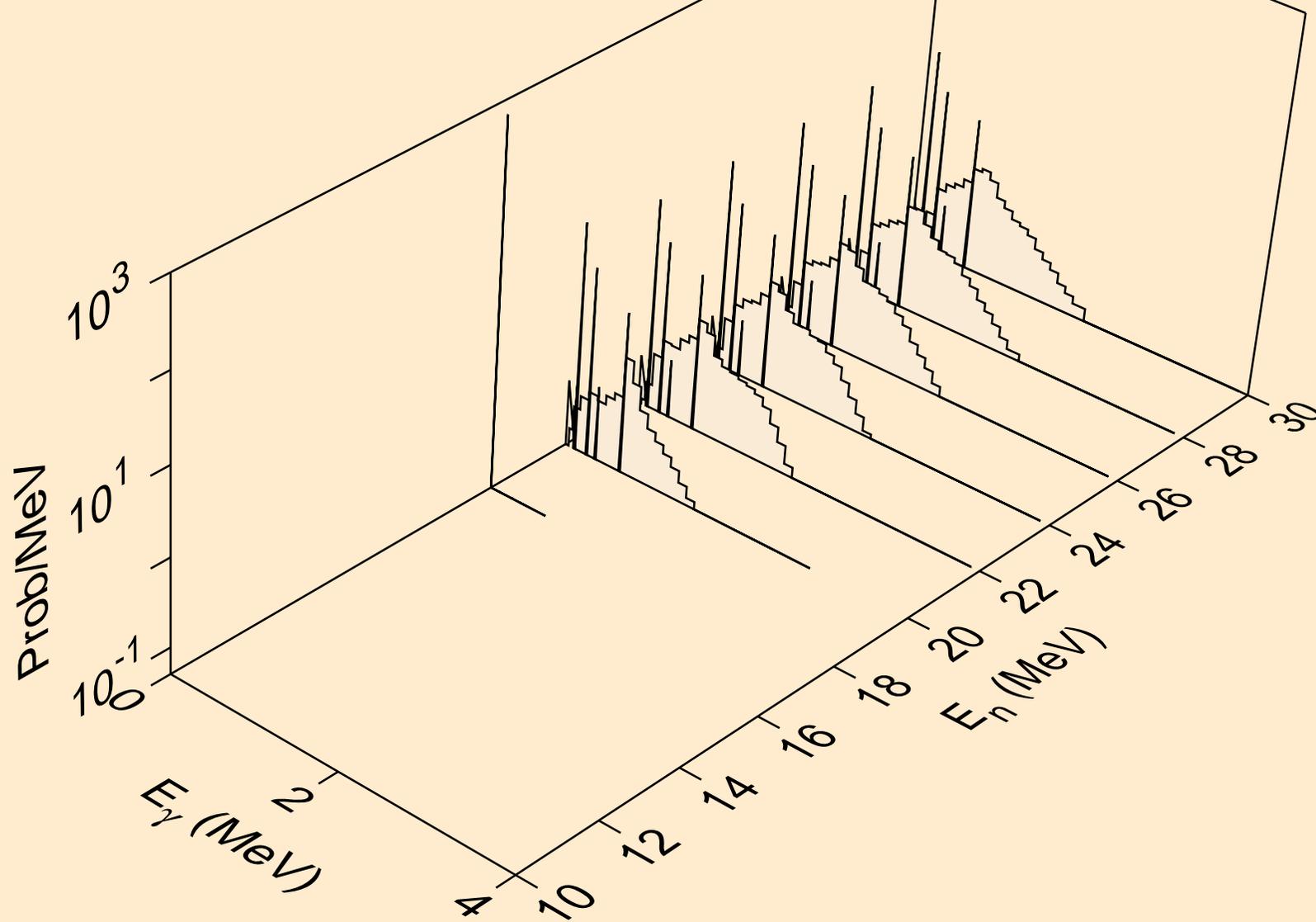TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,p)

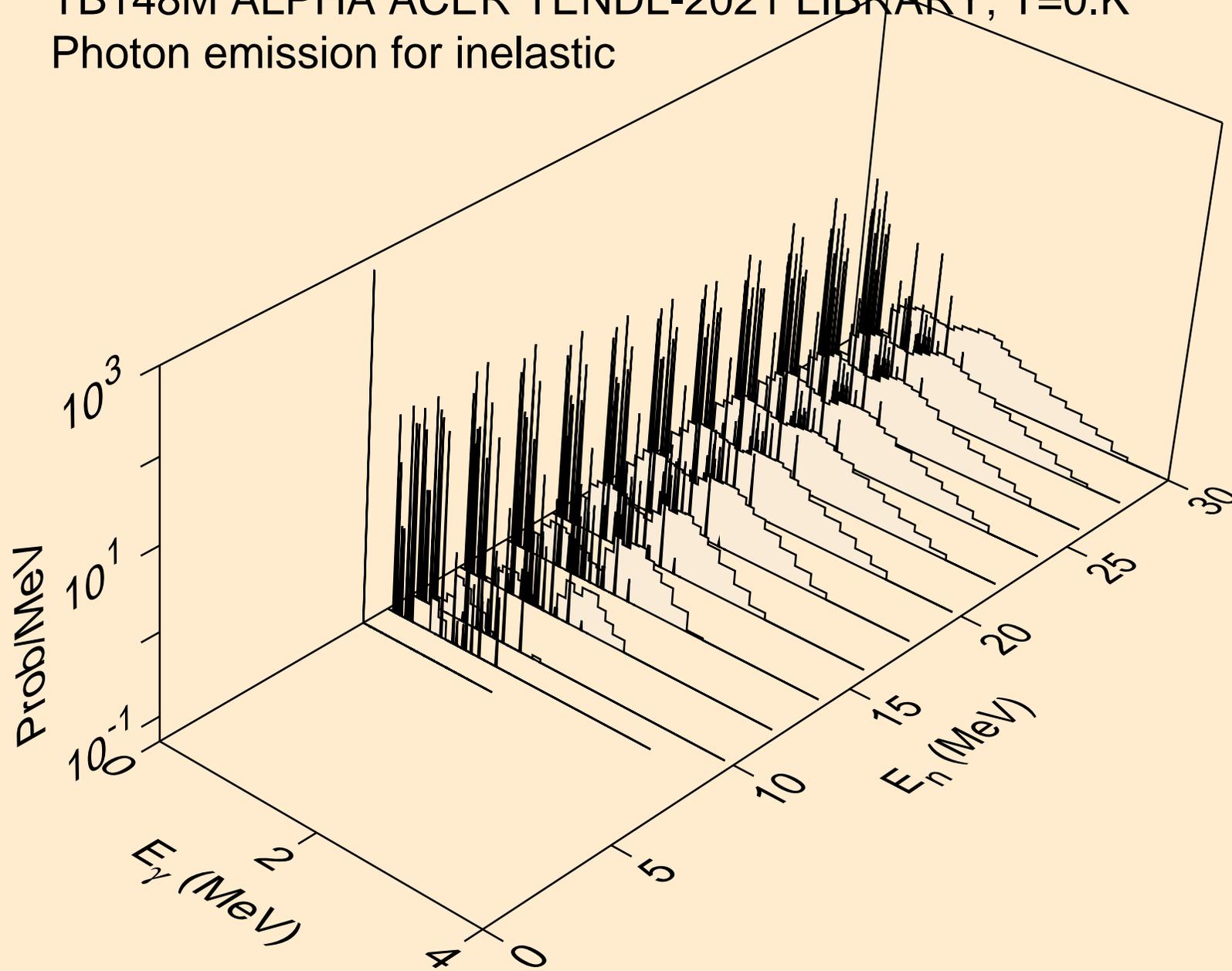TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,d)

TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
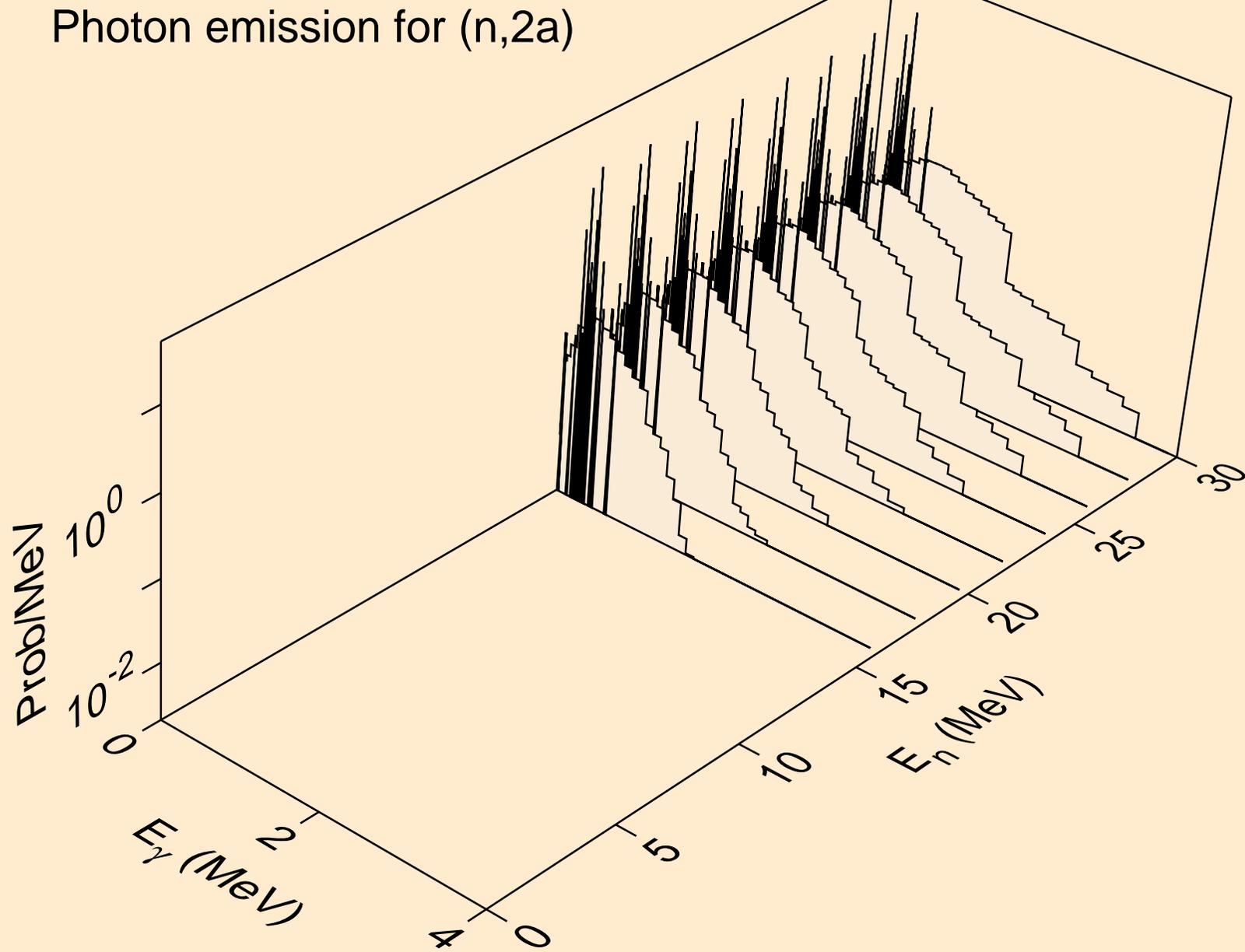Photon emission for (n,t)

TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
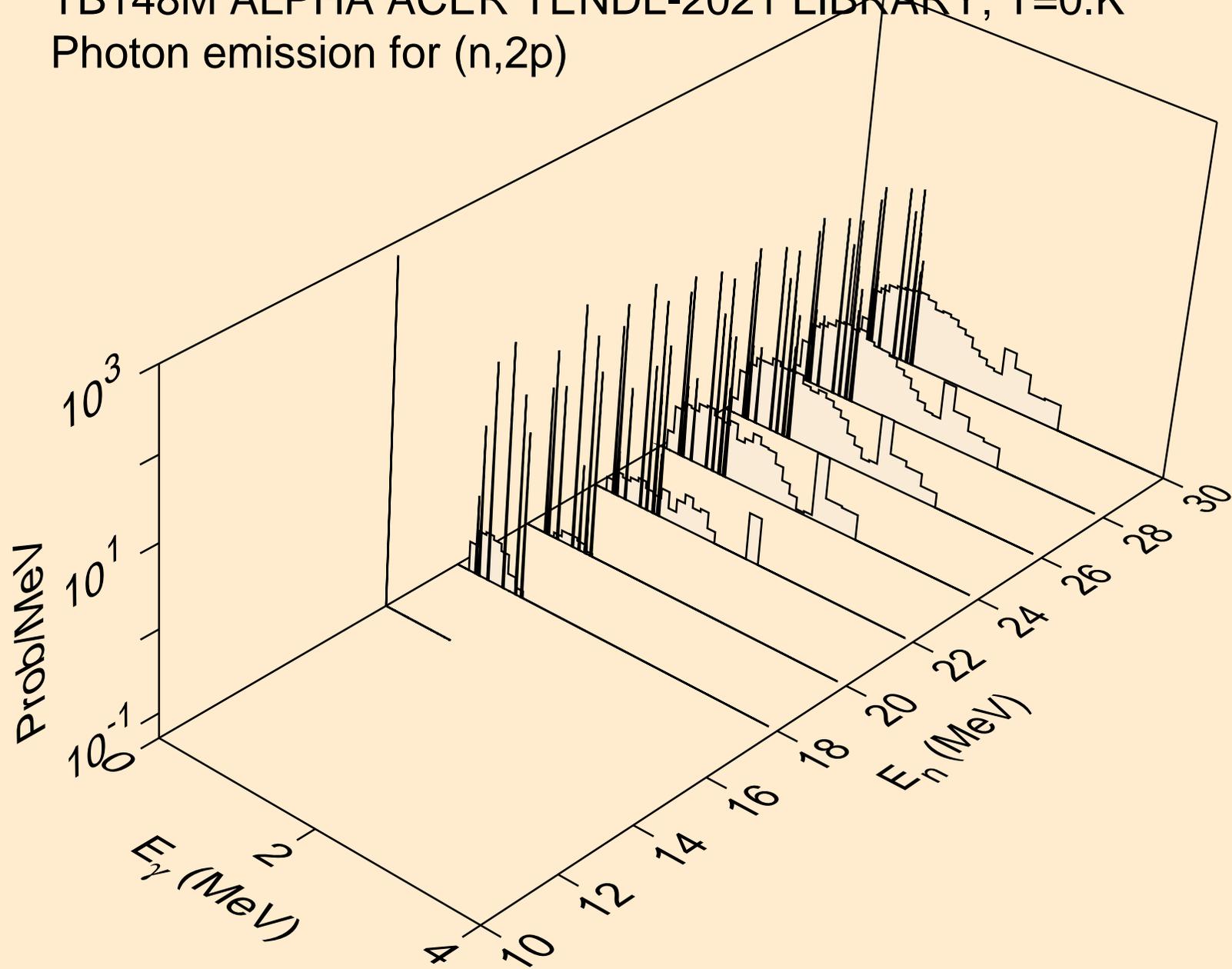Photon emission for (n,he3)

TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
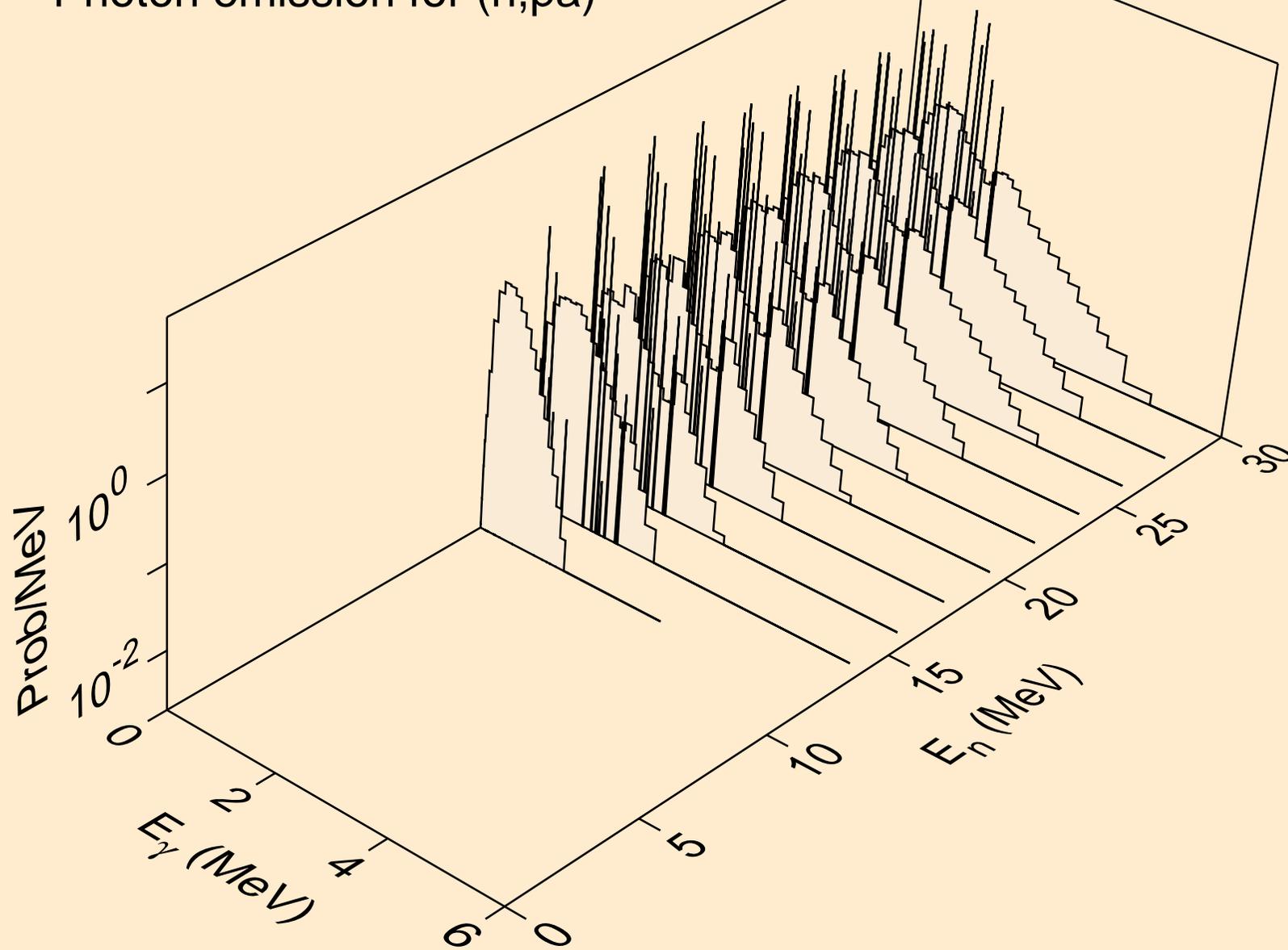Photon emission for inelastic

TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
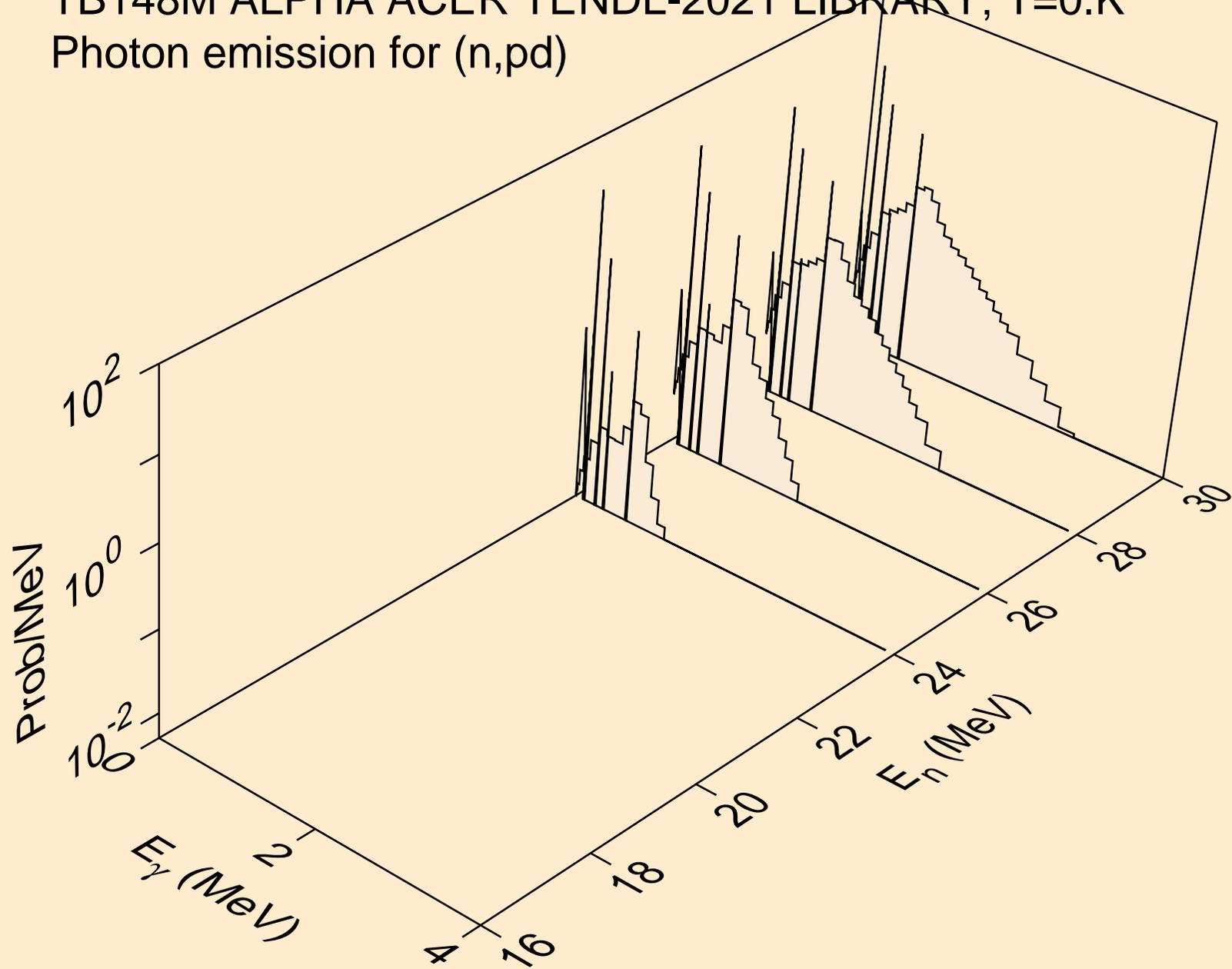Photon emission for (n,2a)

TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
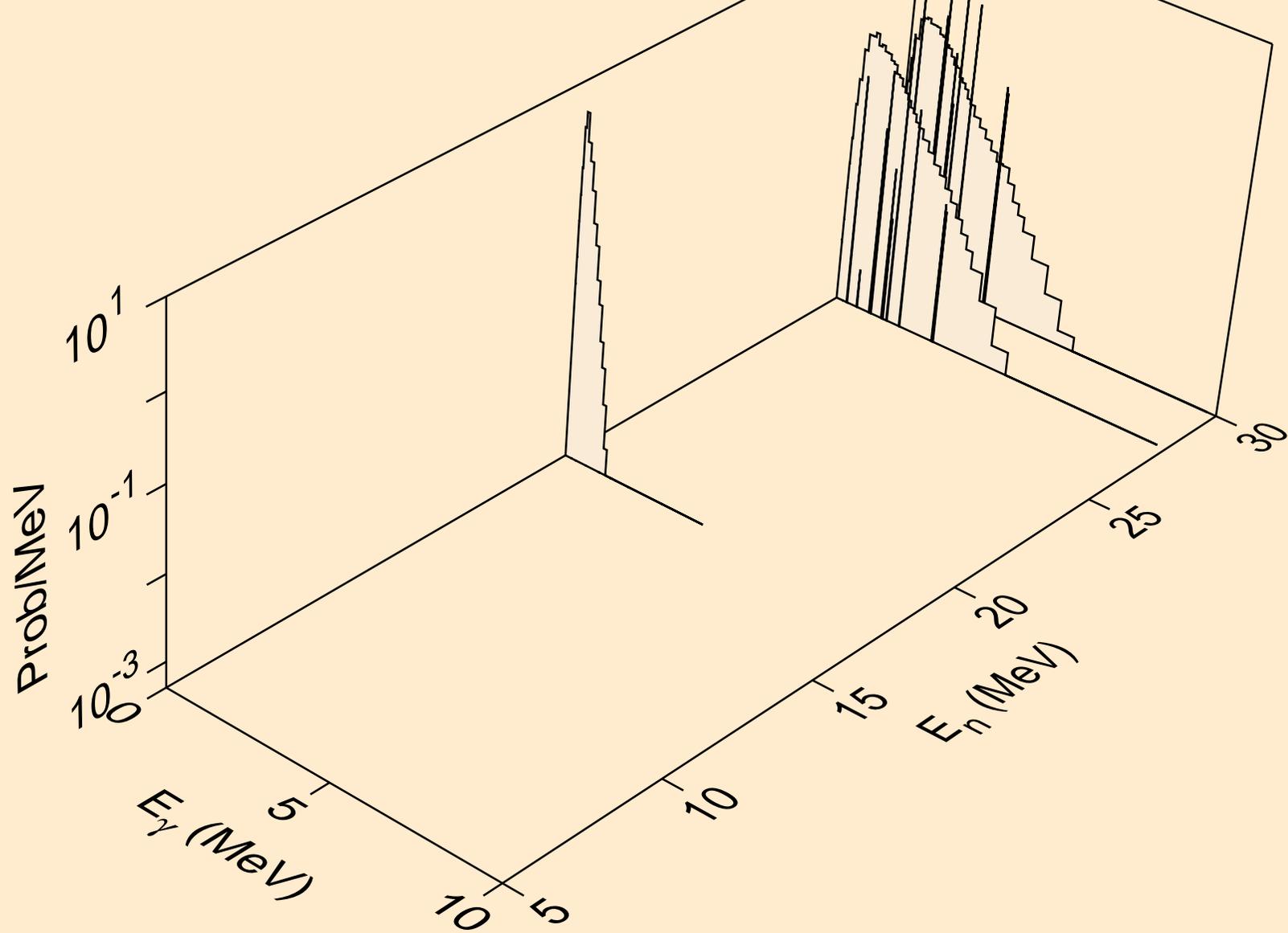Photon emission for (n,2p)

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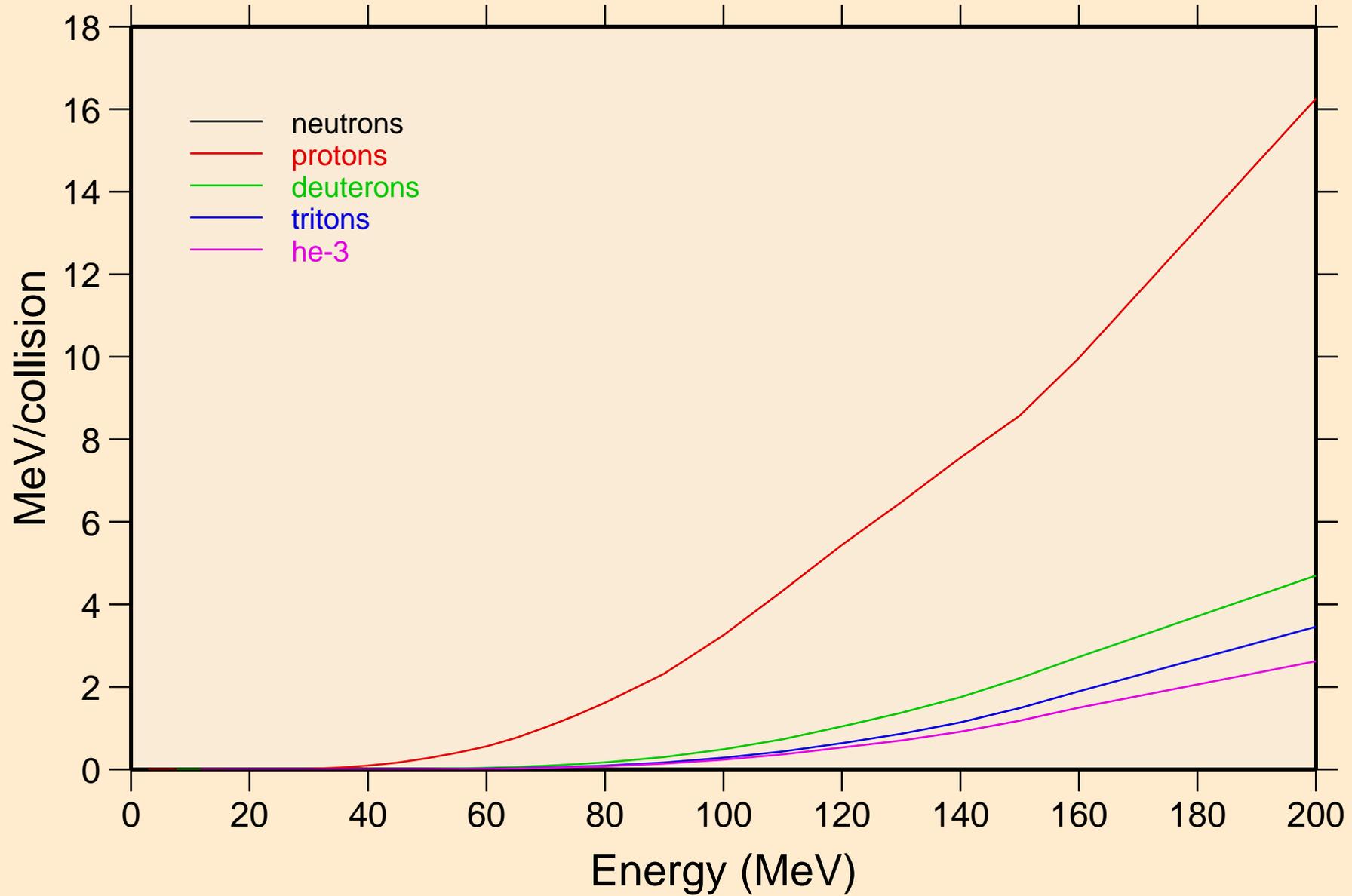Photon emission for (n,pa)

TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
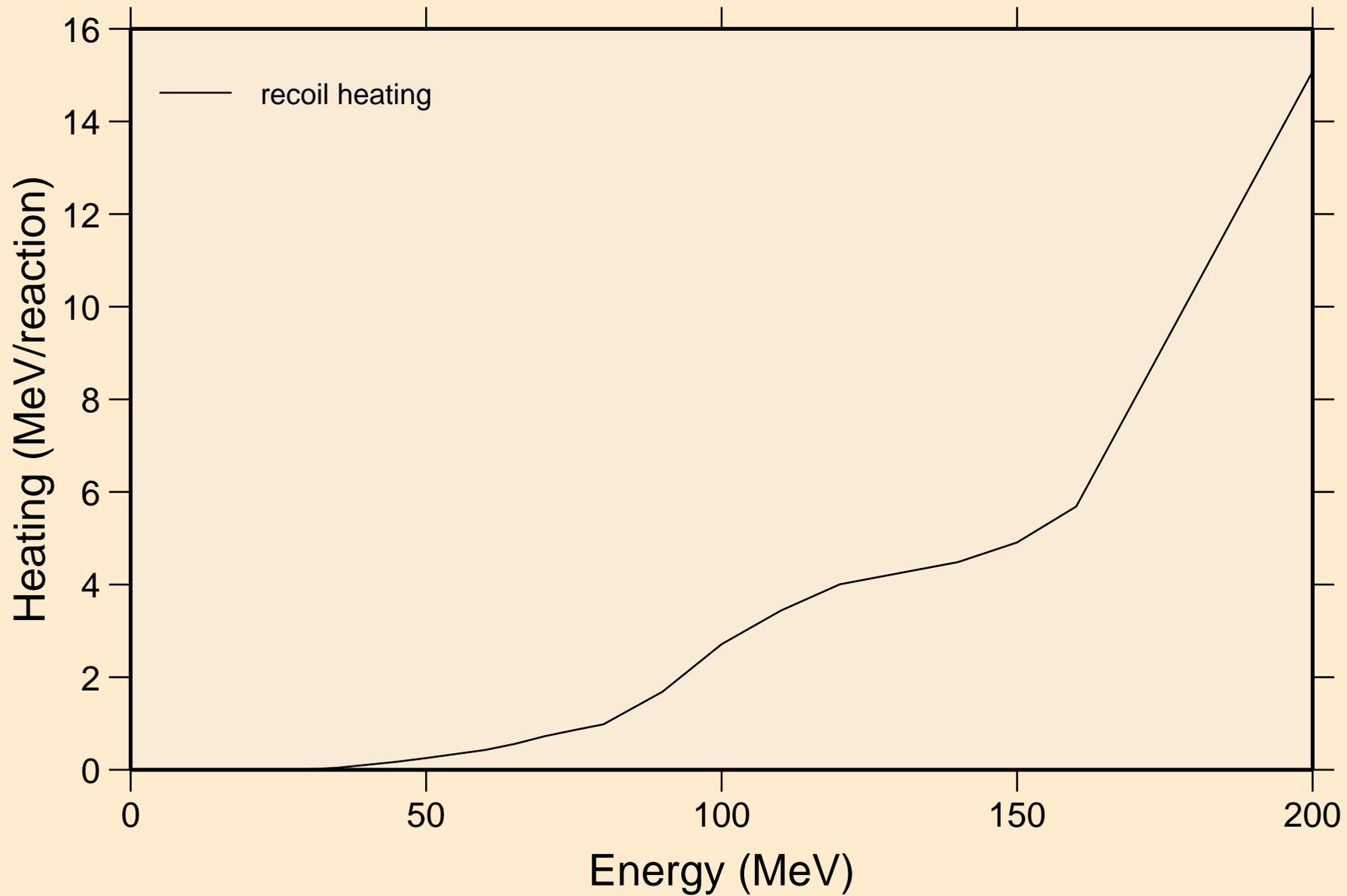Photon emission for (n,pd)

TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
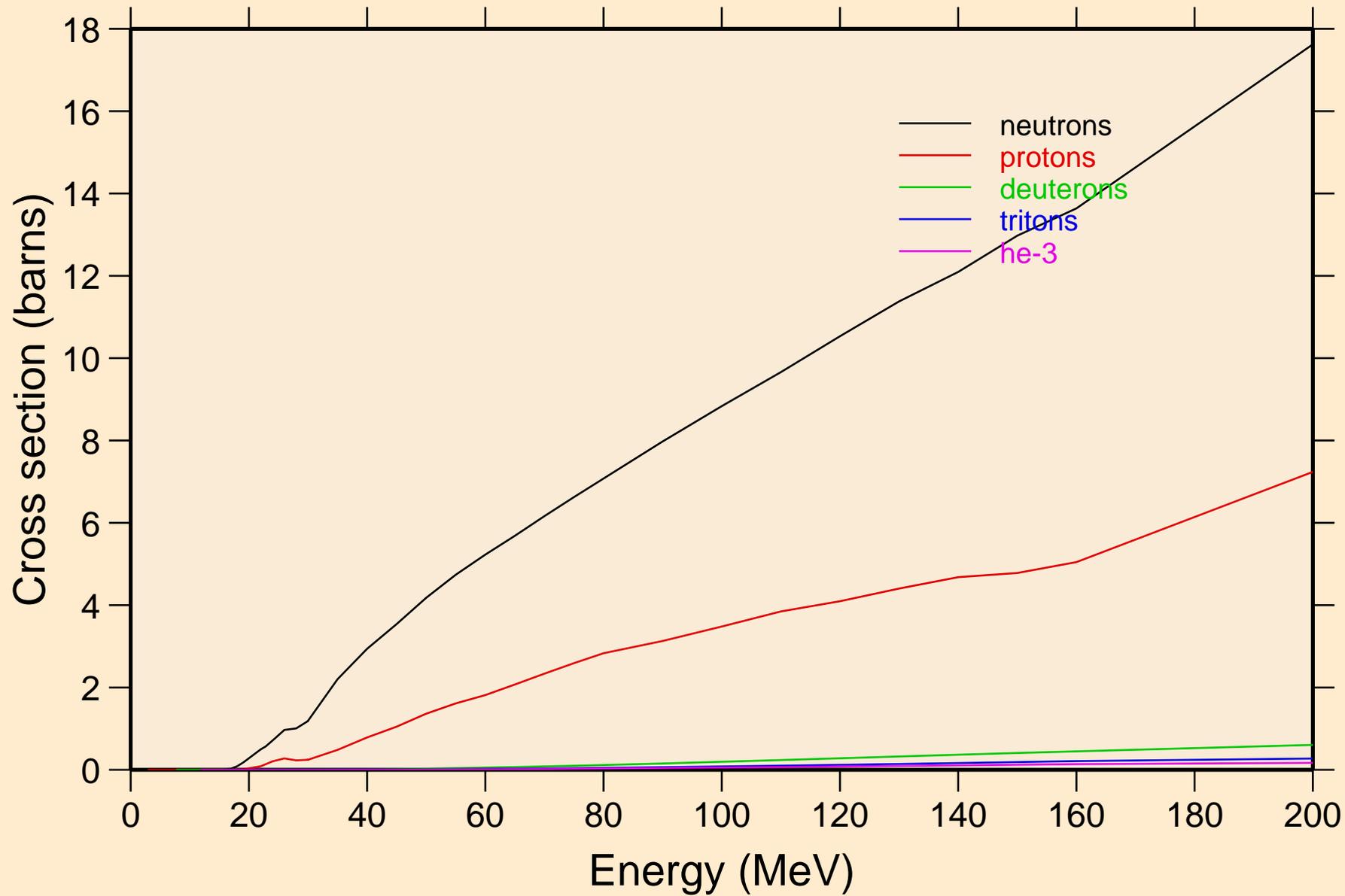Photon emission for (n,da)

TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Particle heating contributions

neutrons
protons
deuterons
tritons
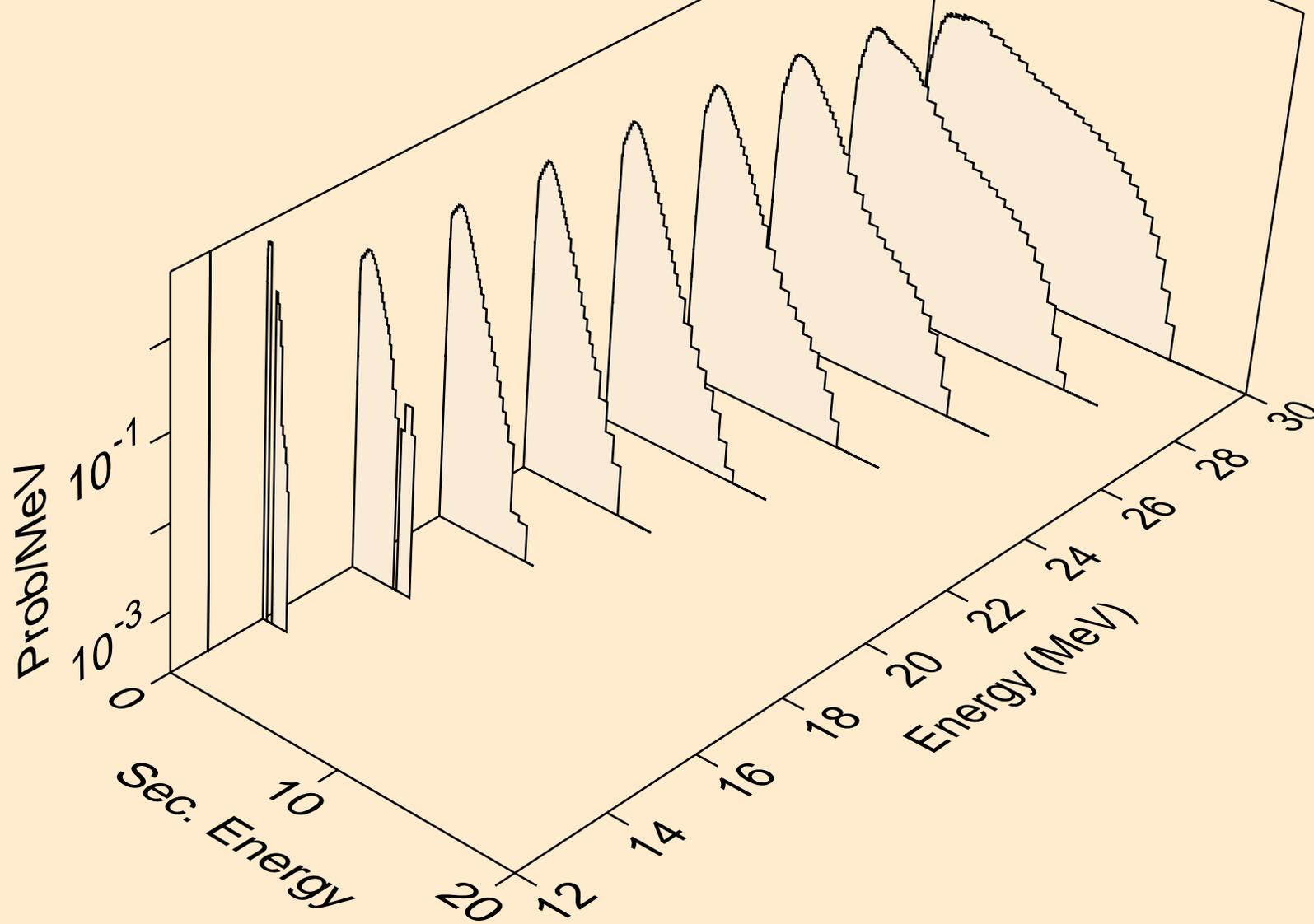he-3

MeV/collision

Energy (MeV)

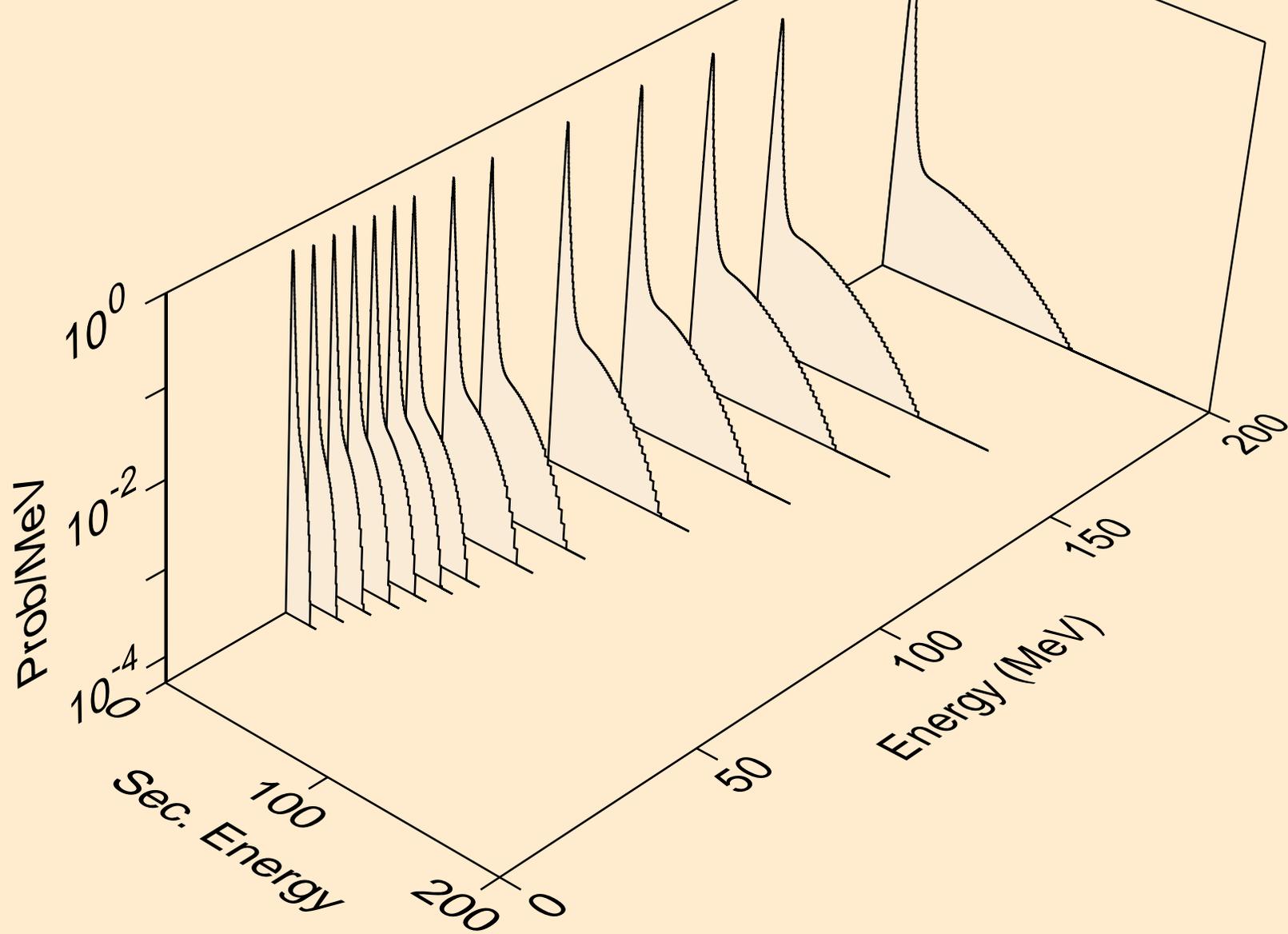TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
Recoil Heating

TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
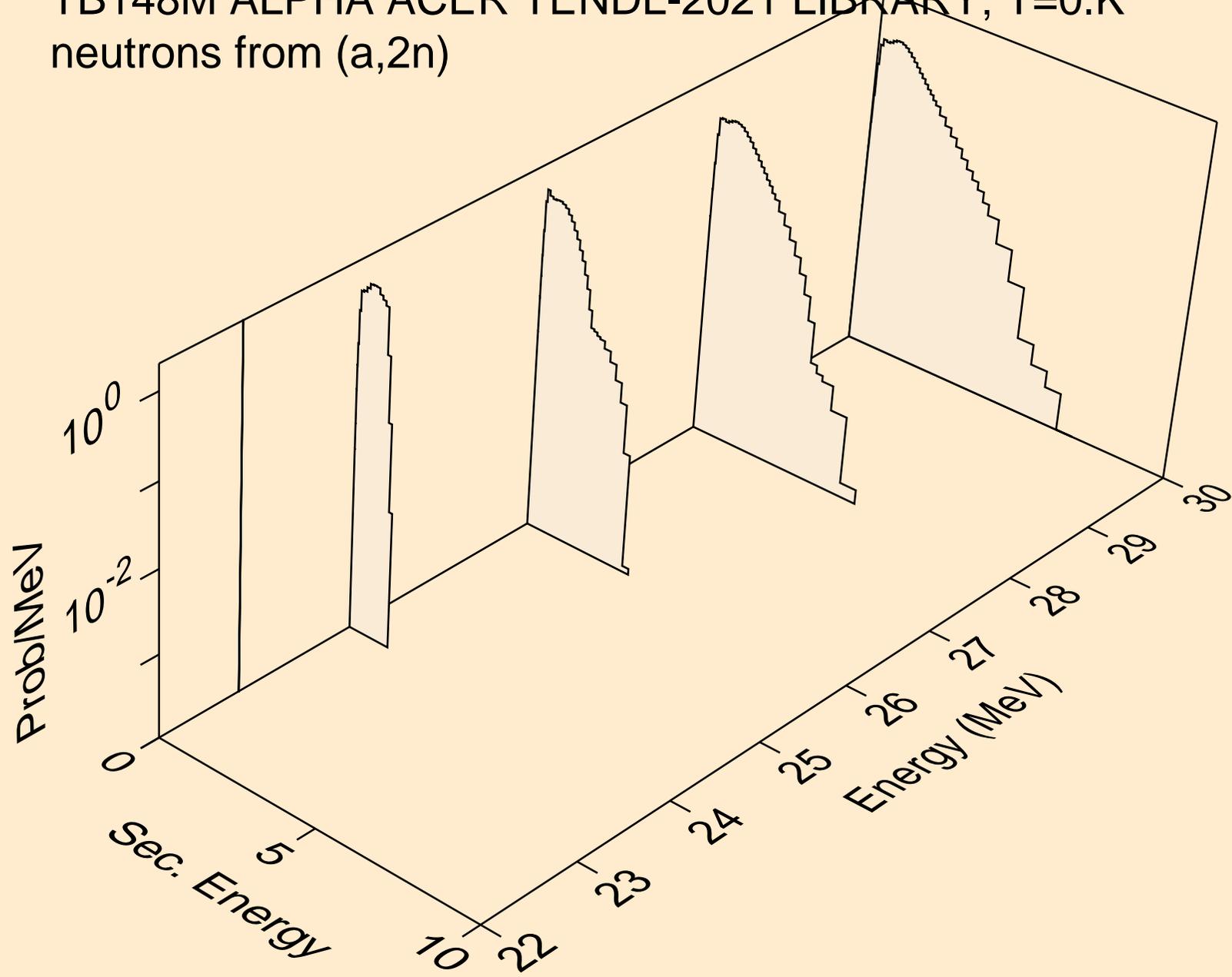Particle production cross sections

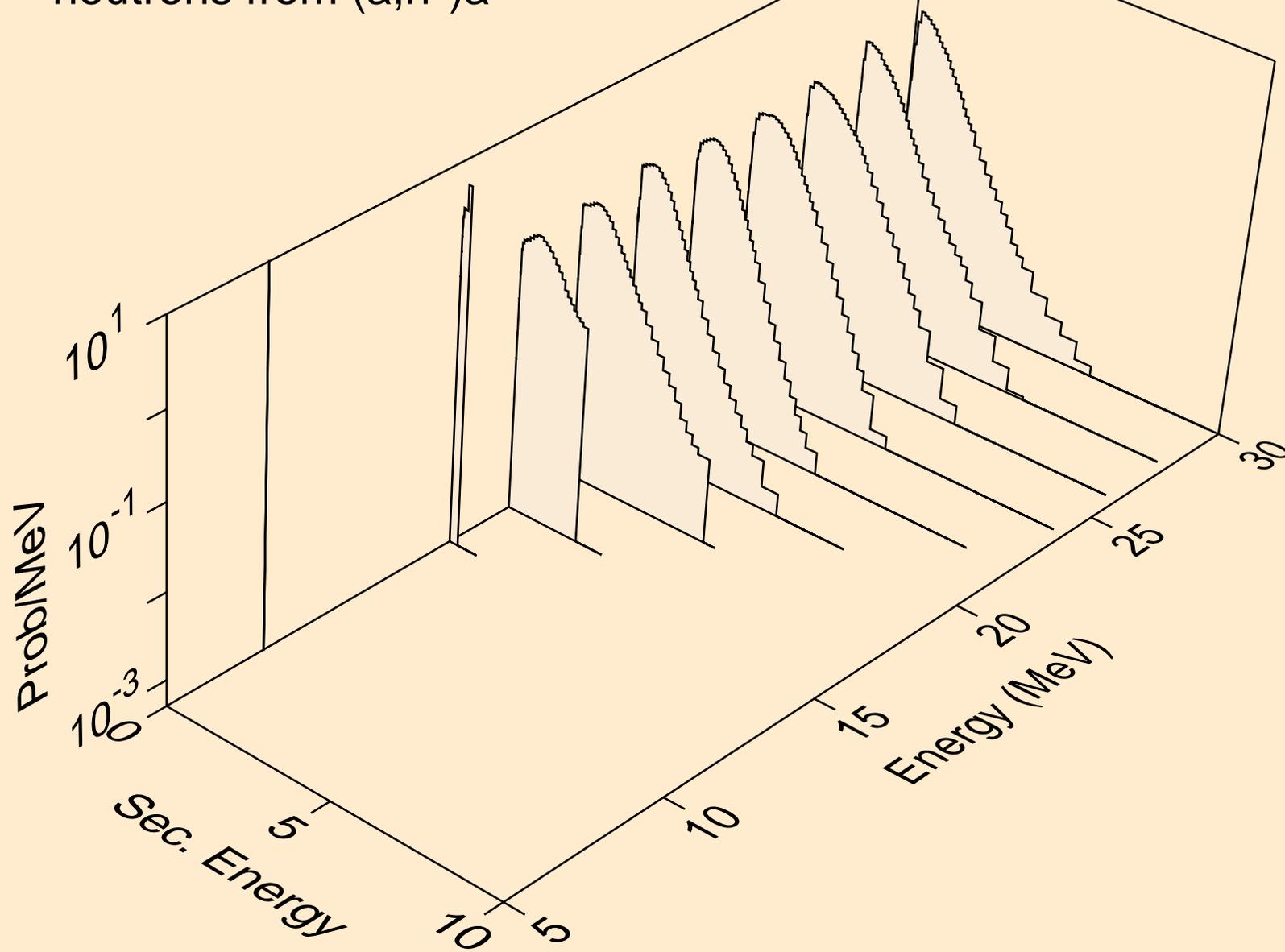TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (a,n)

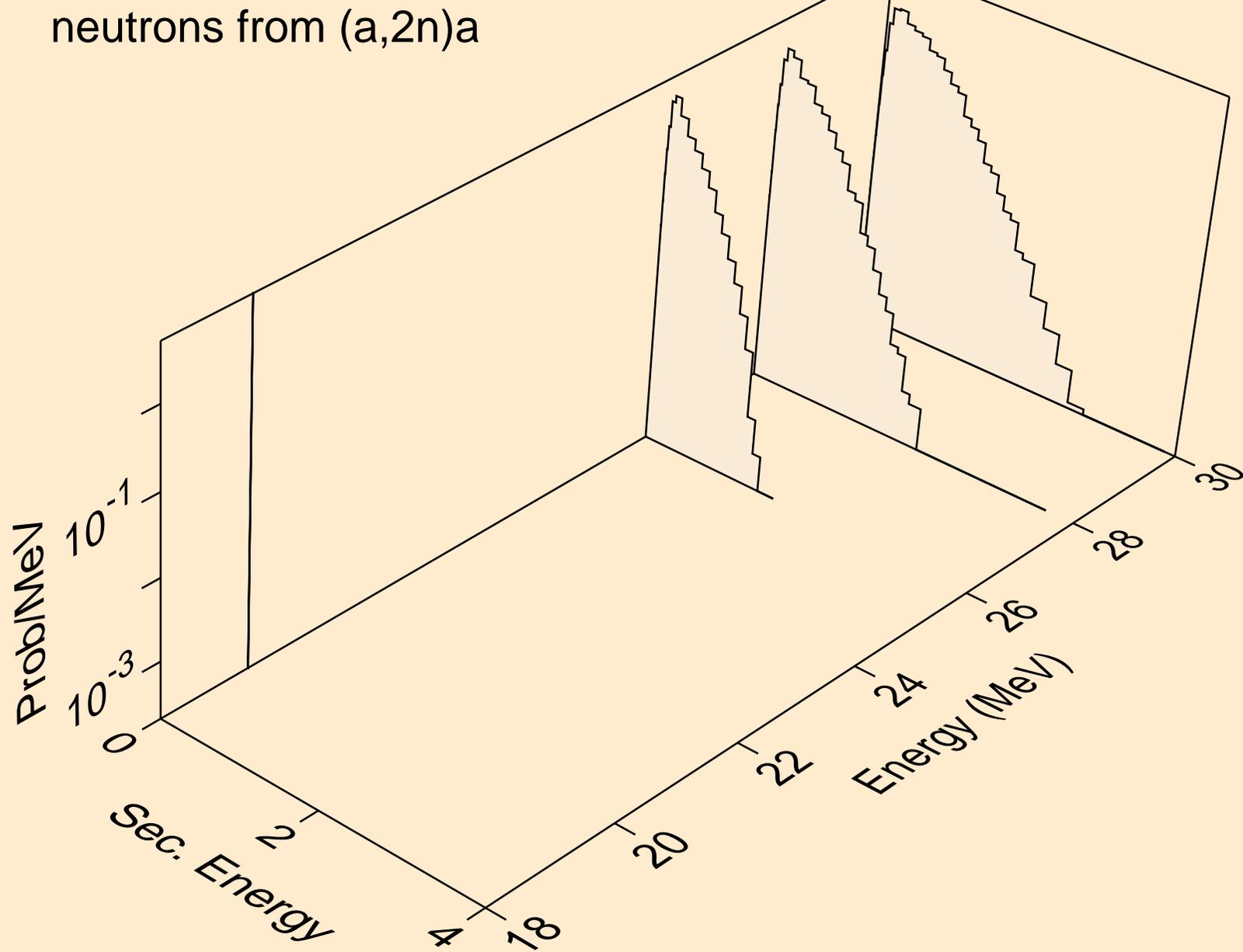TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (a,x)

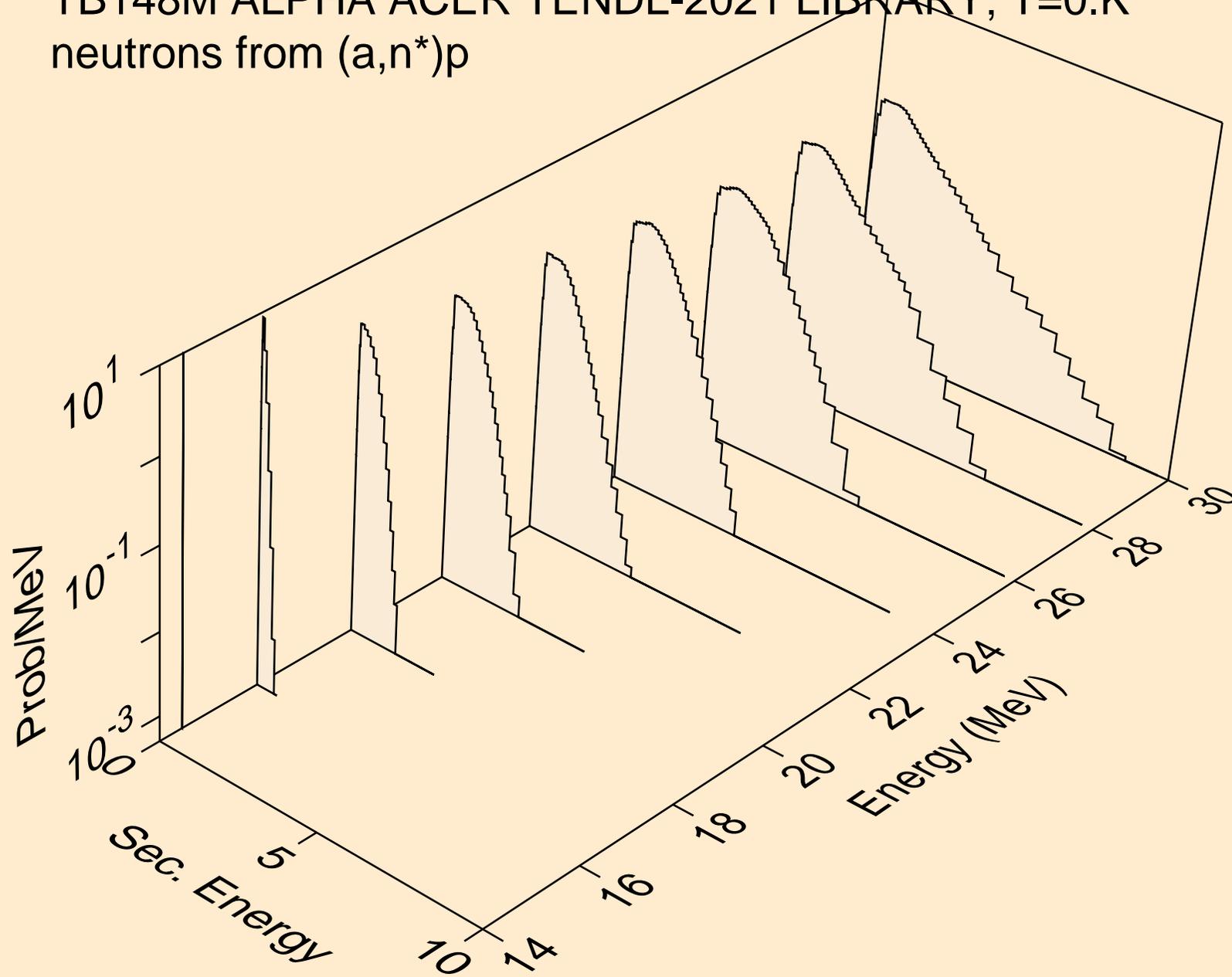TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (a,2n)

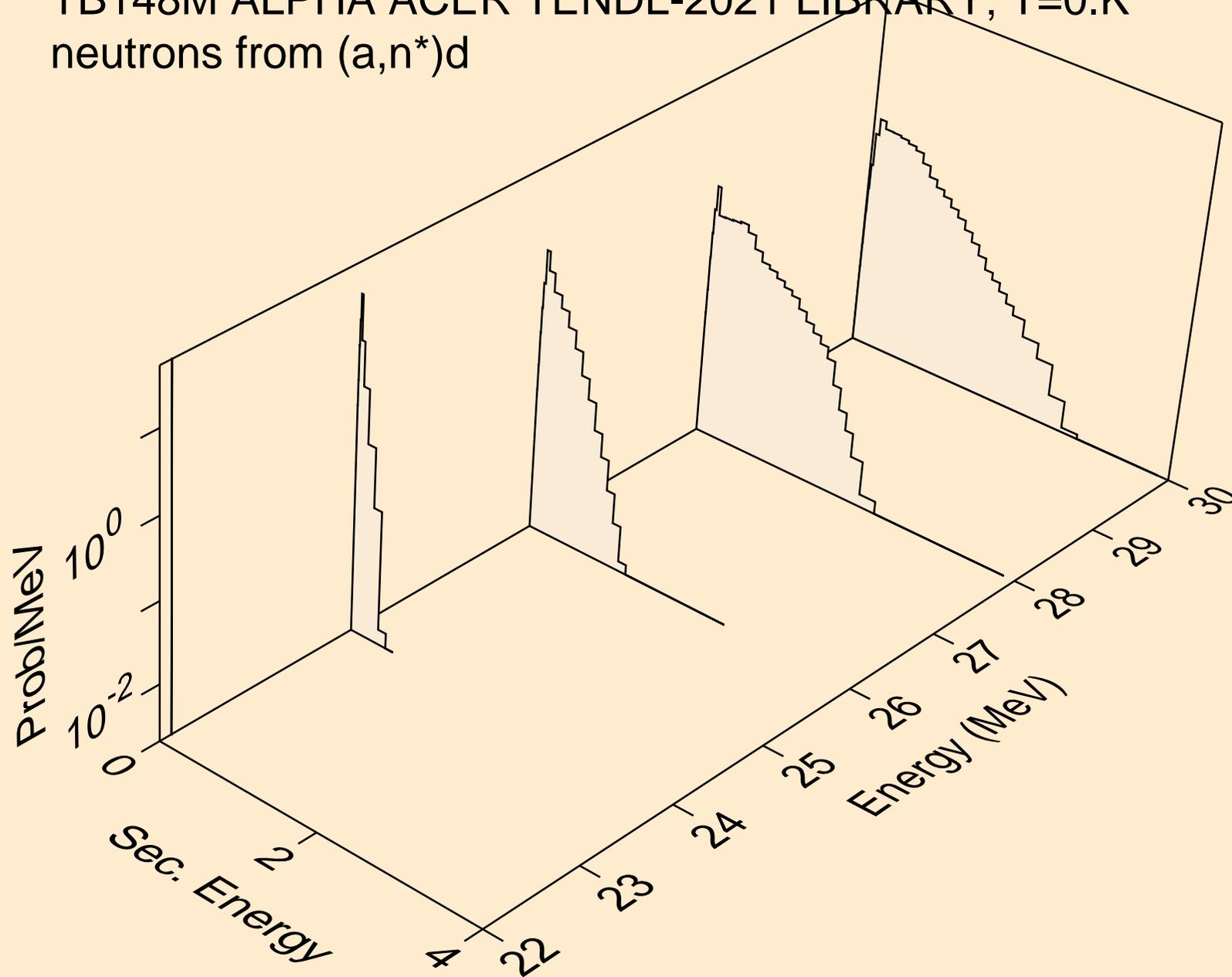TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (a,n*)a

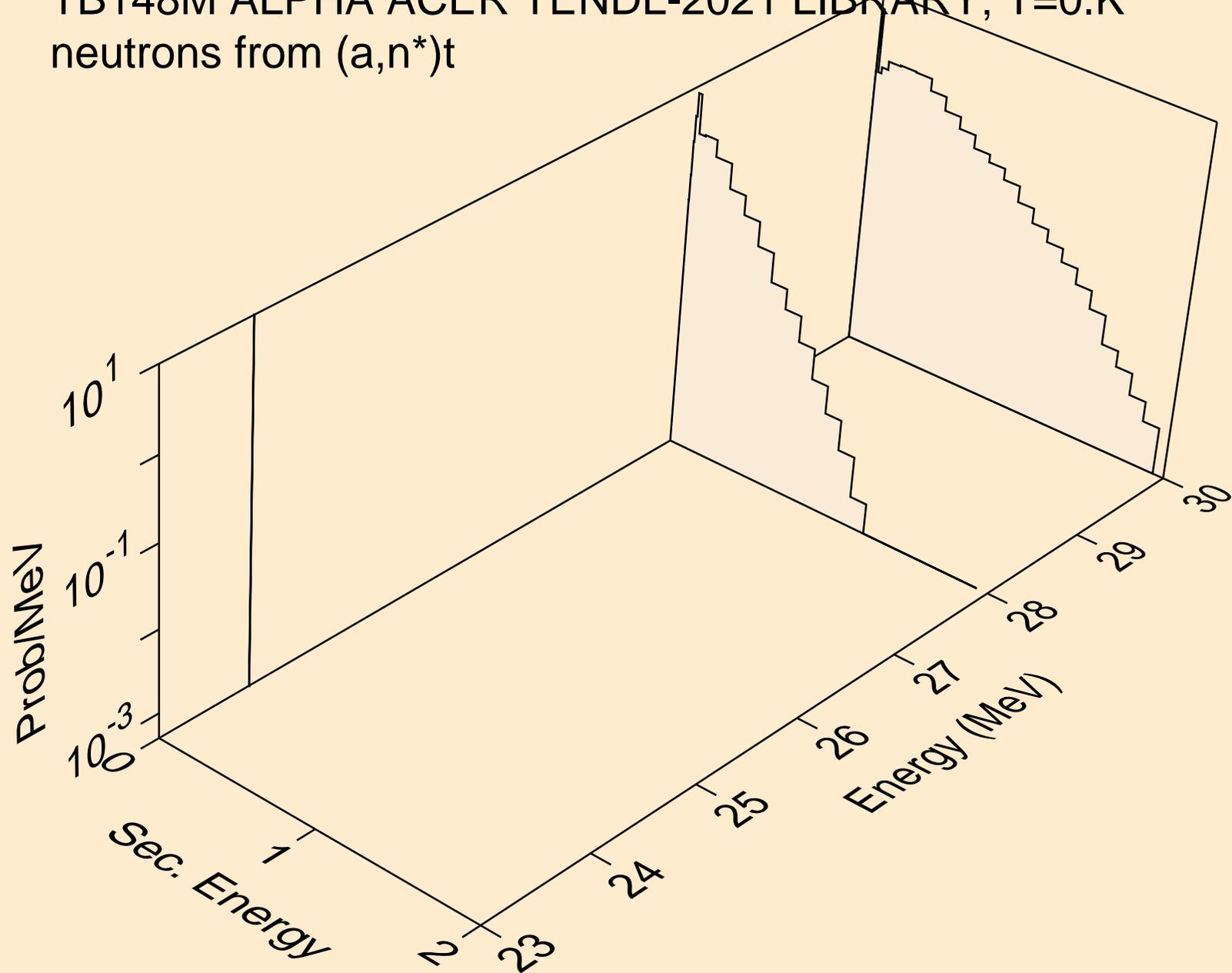TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (a,2n)a

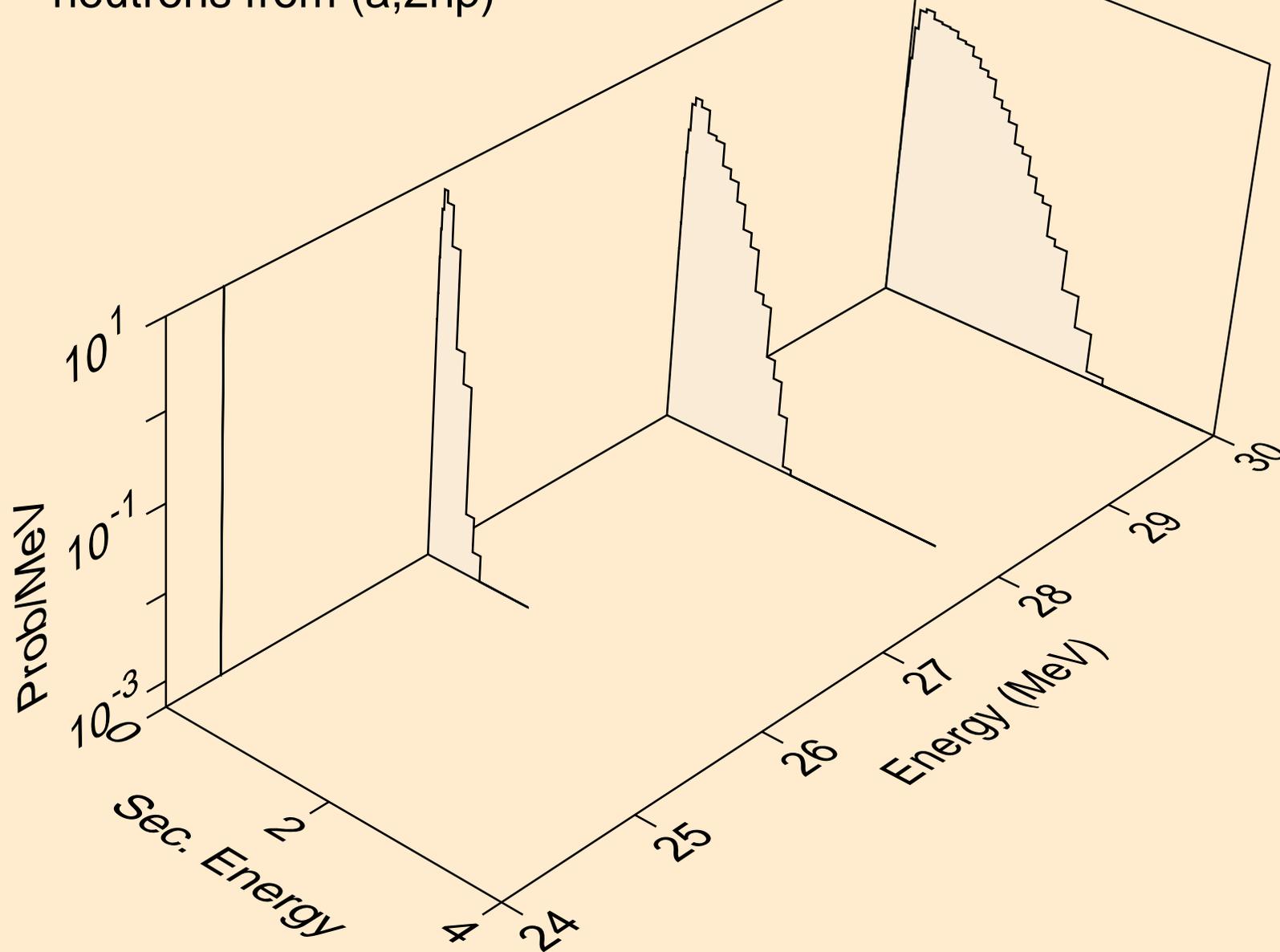TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (a,n*)p

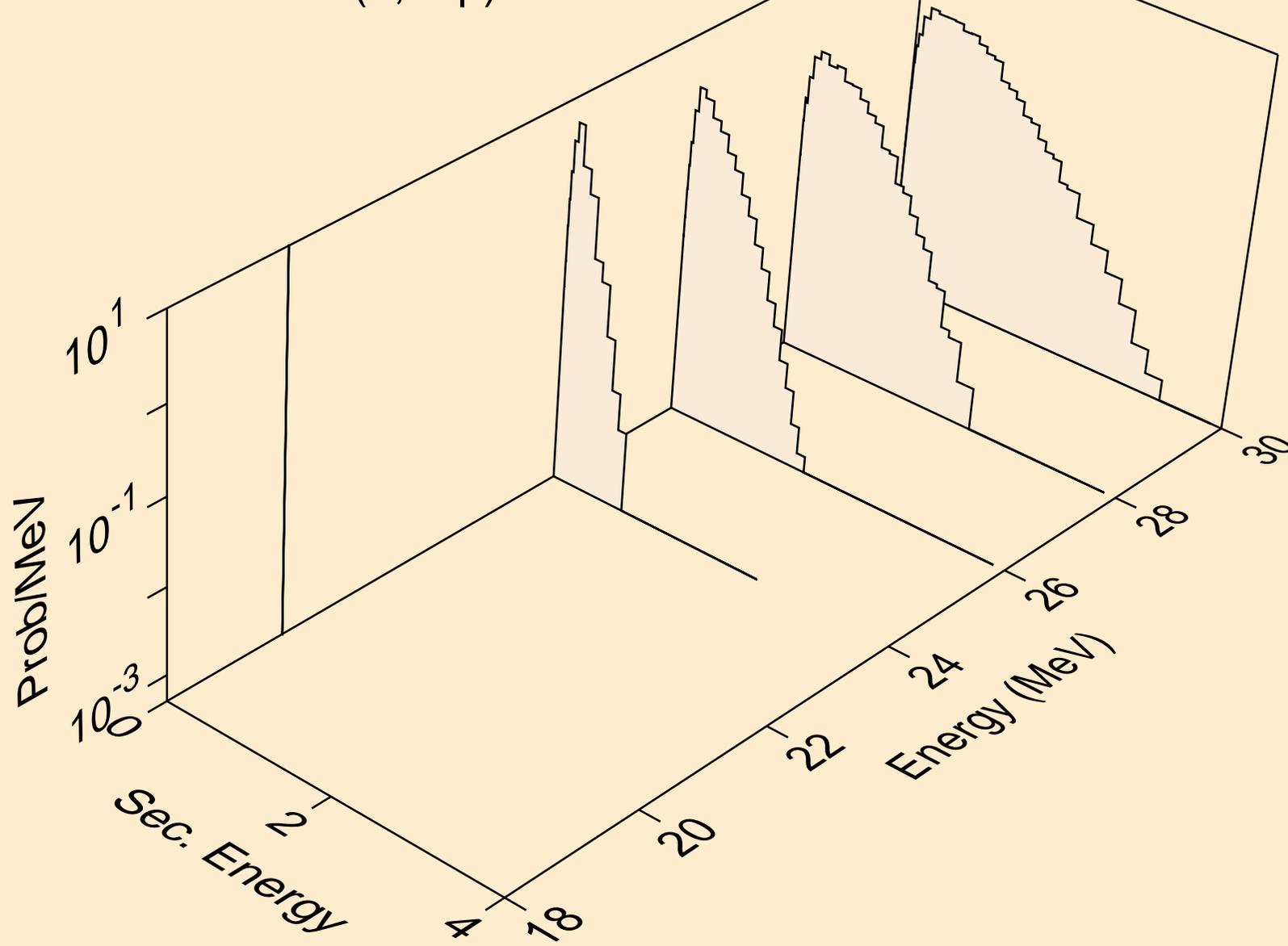TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (a,n*)d

TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
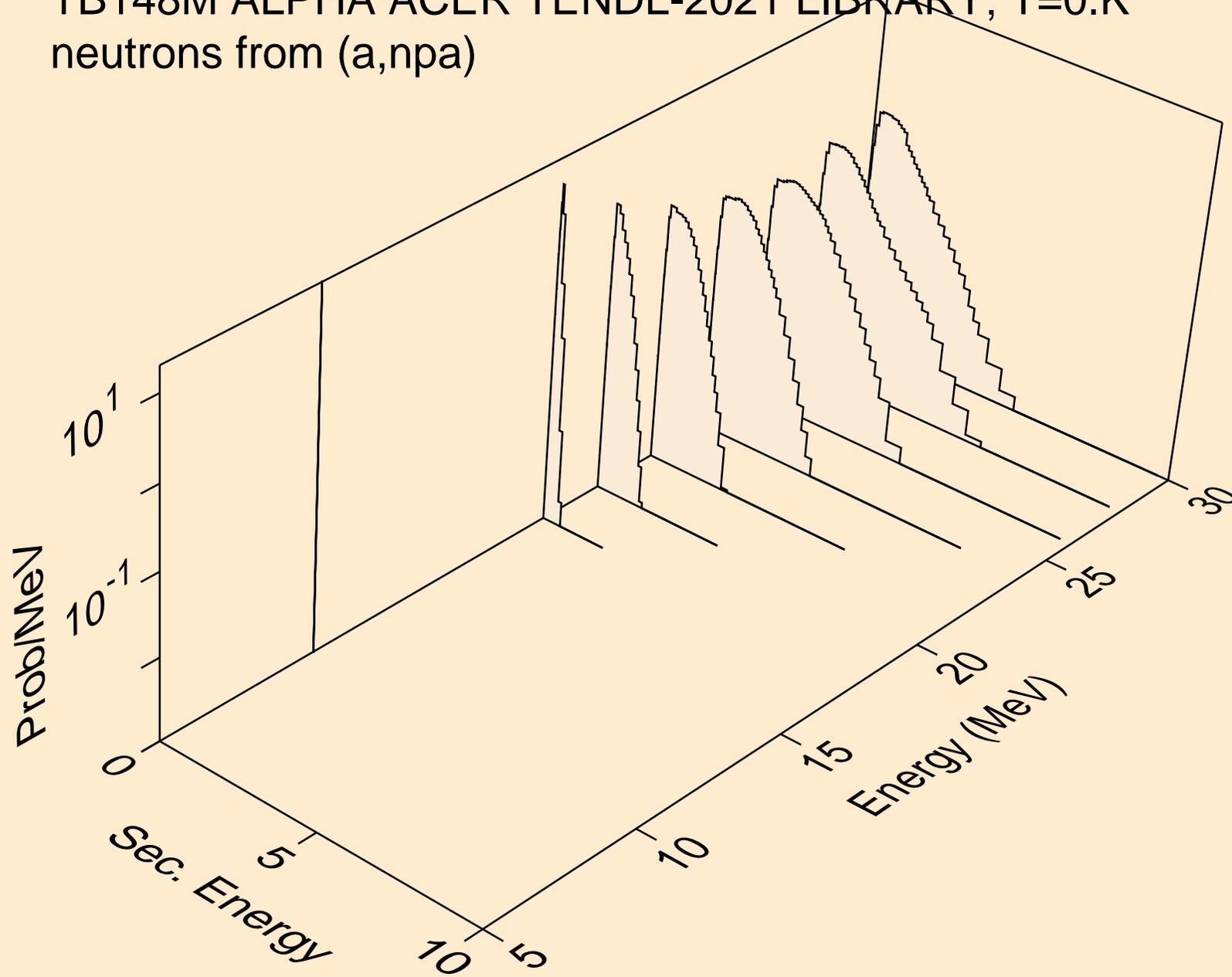neutrons from (a,n*)t

TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
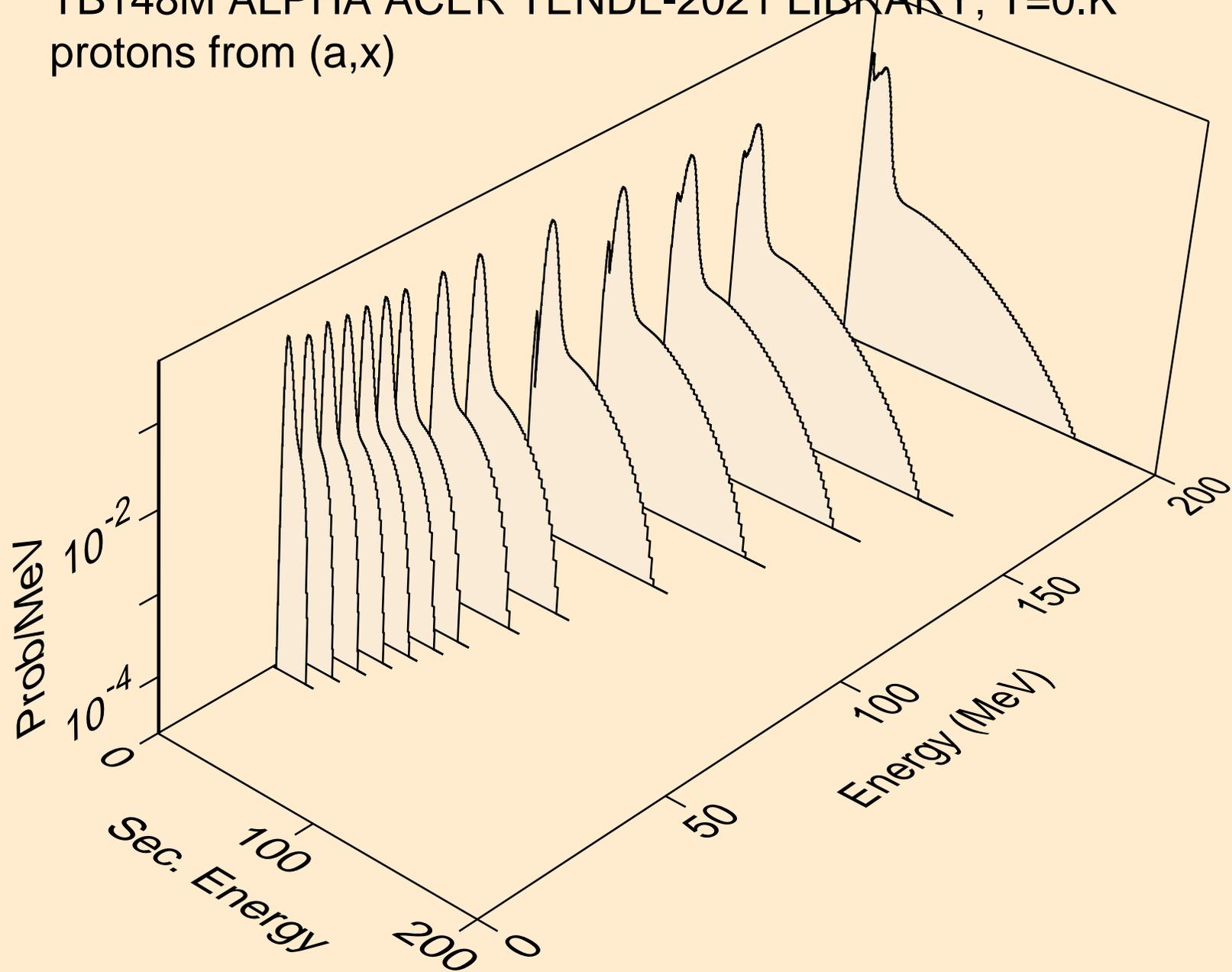neutrons from (a,2np)

TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
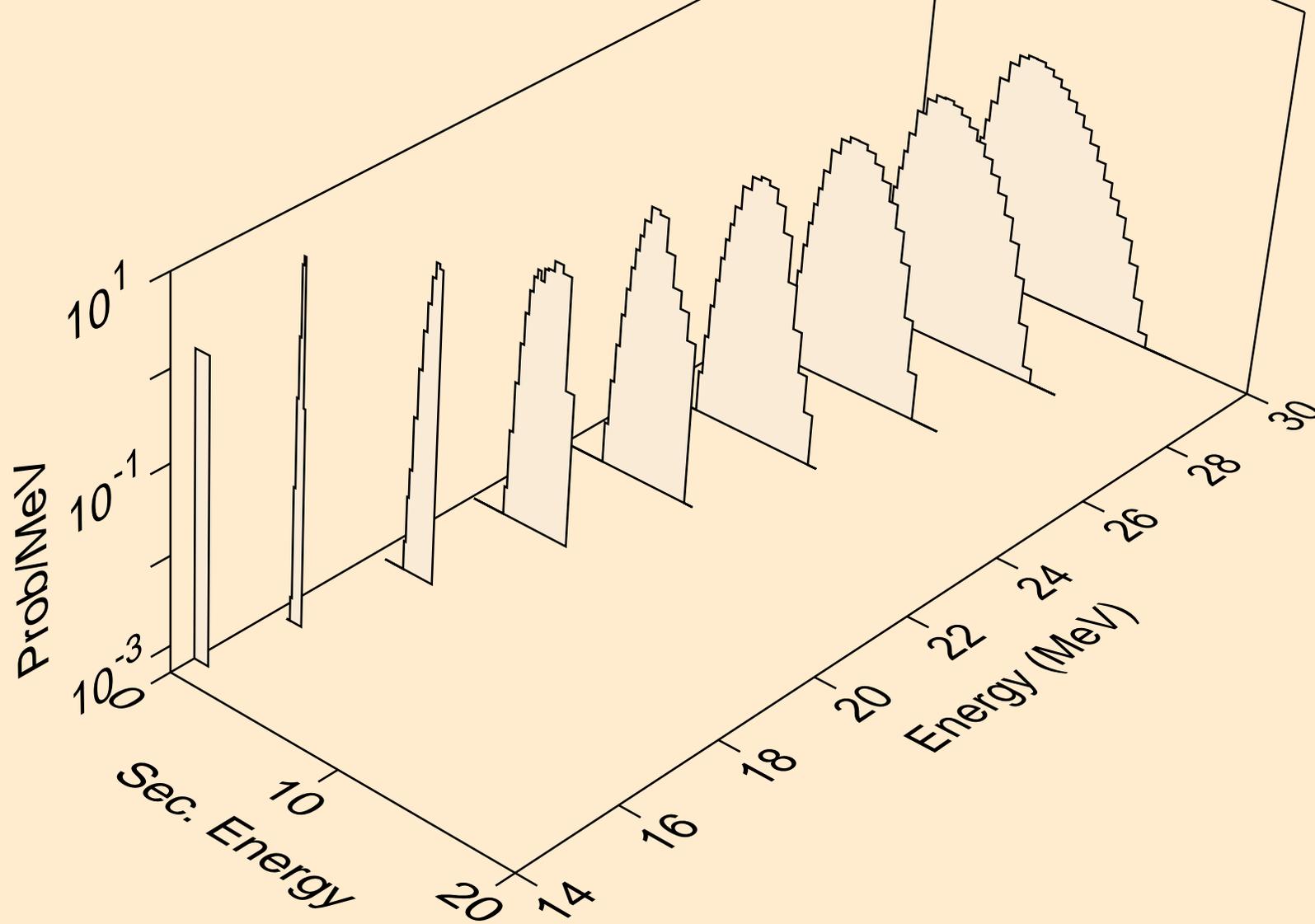neutrons from (a,2np)

TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
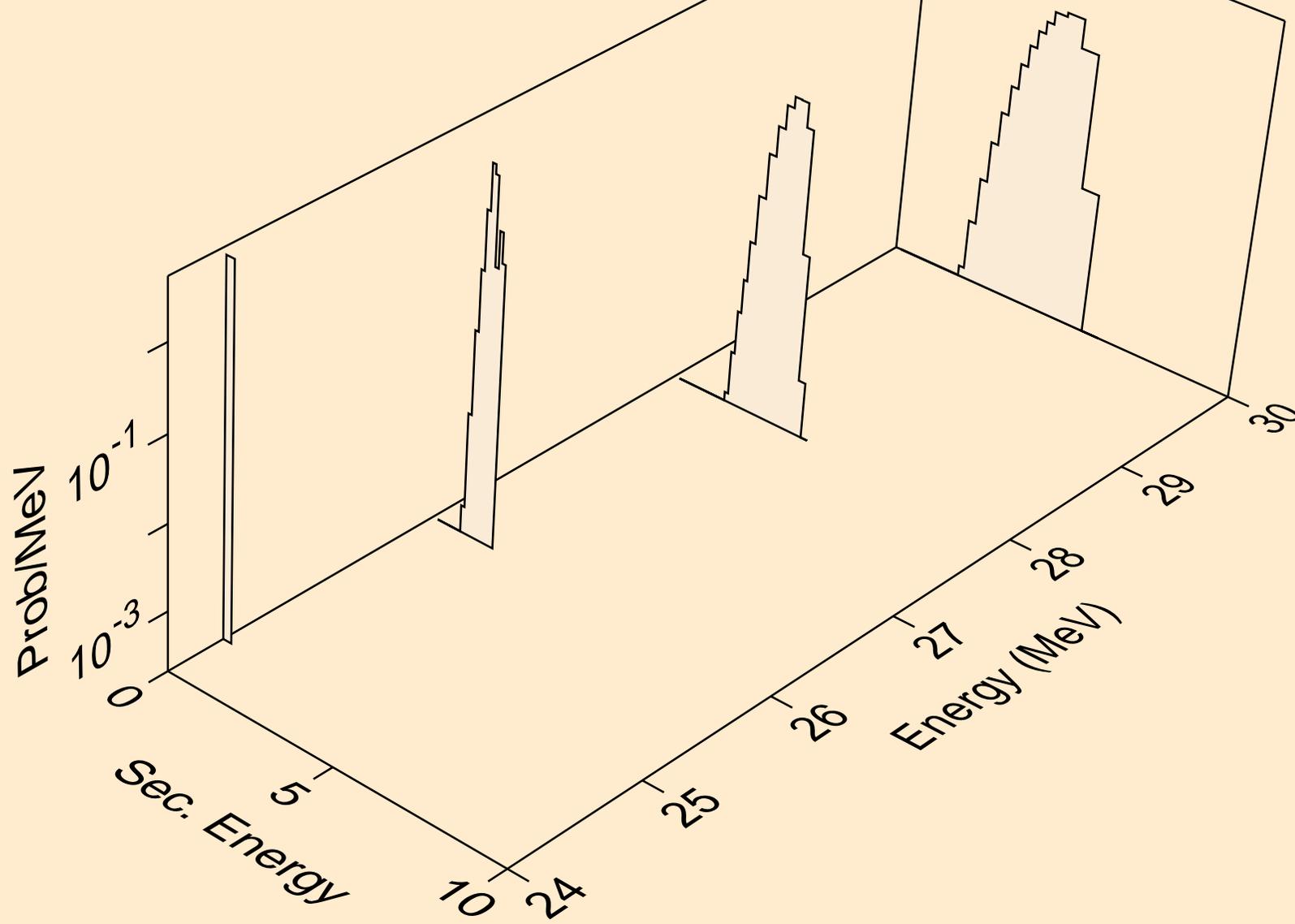neutrons from (a,npa)

TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
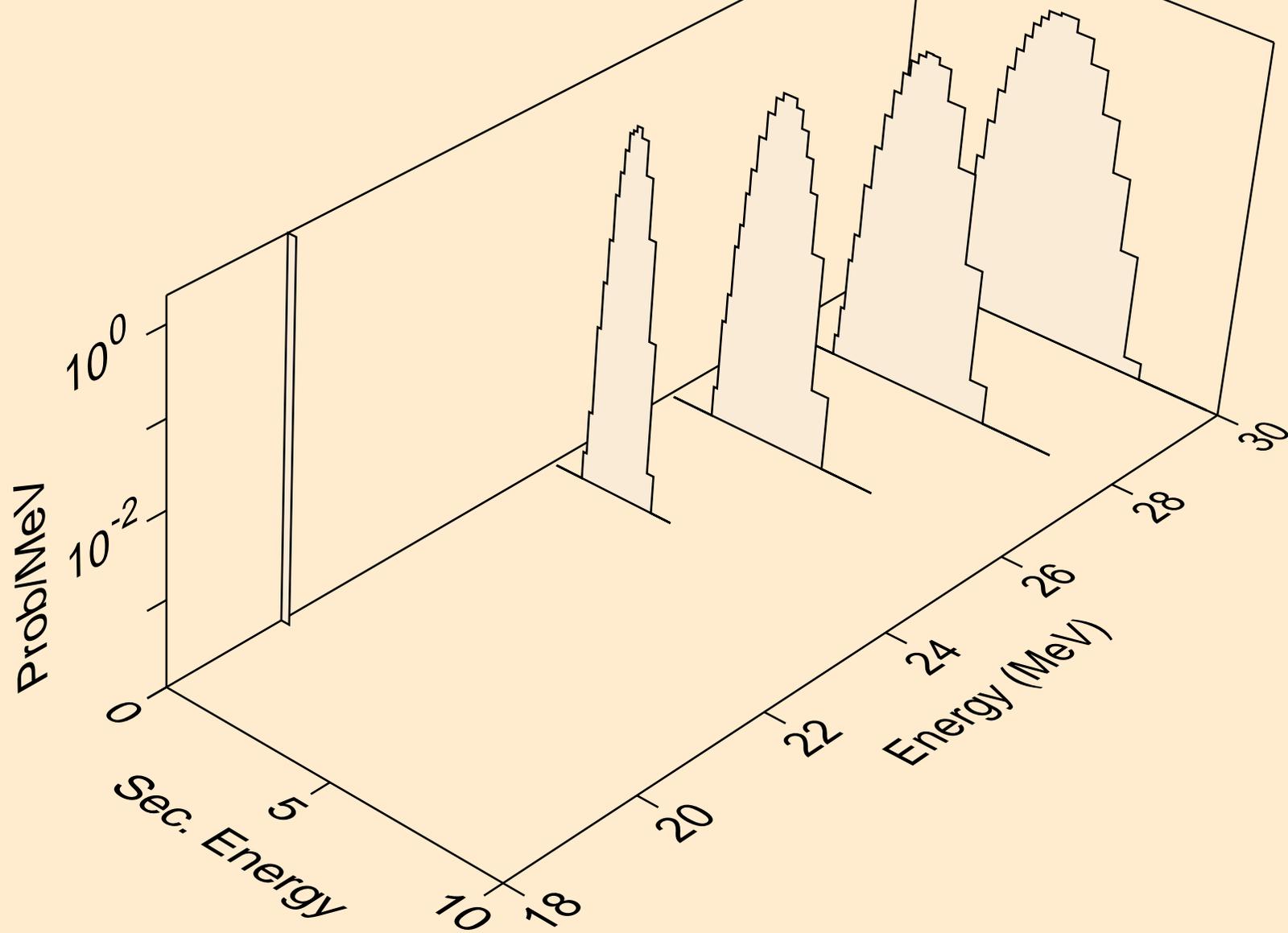protons from (a,x)

TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
protons from (a,n*)p

TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
protons from (a,2np)

TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
protons from (a,2np)

TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
protons from (a,npa)
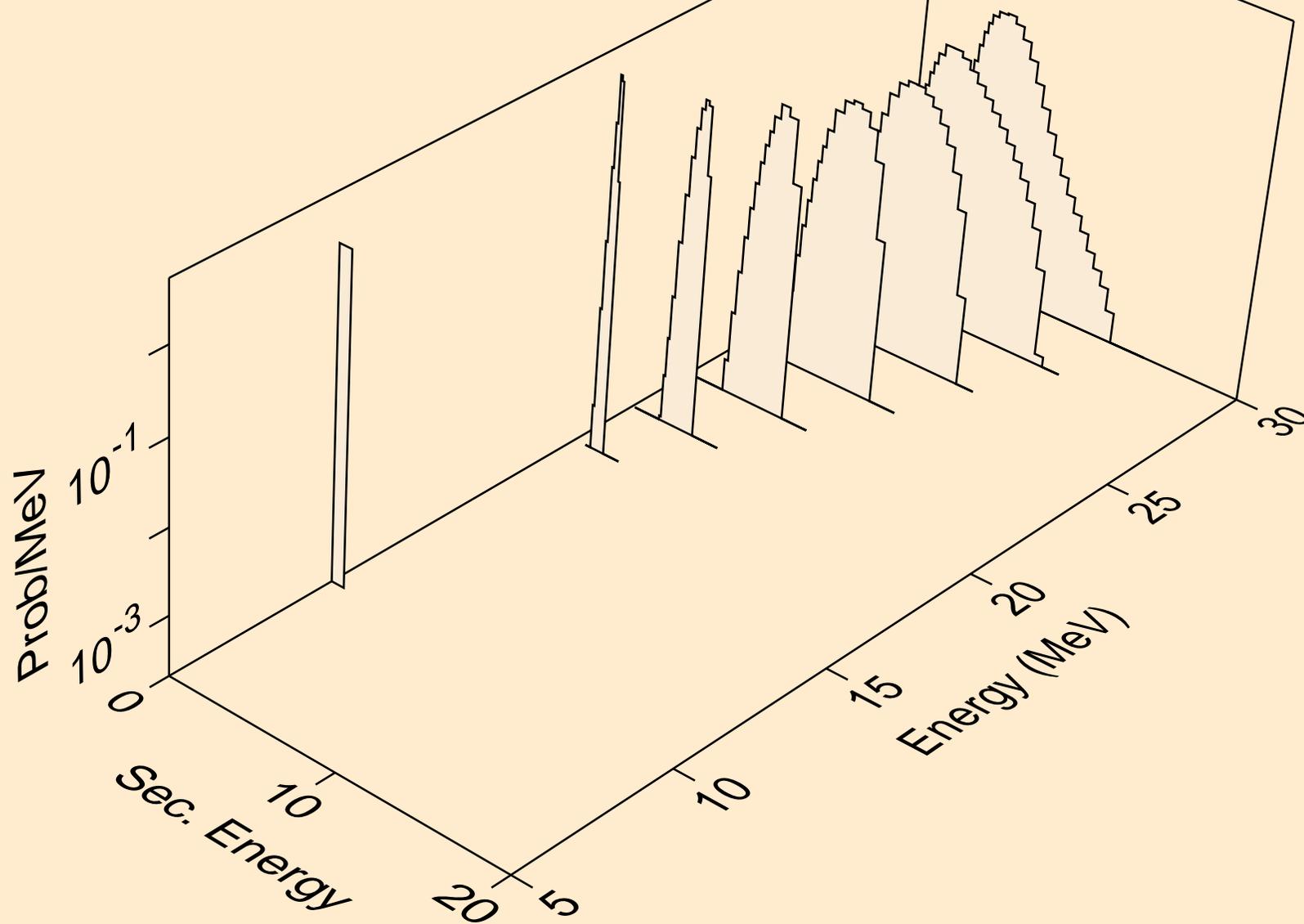
TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
protons from (a,p)
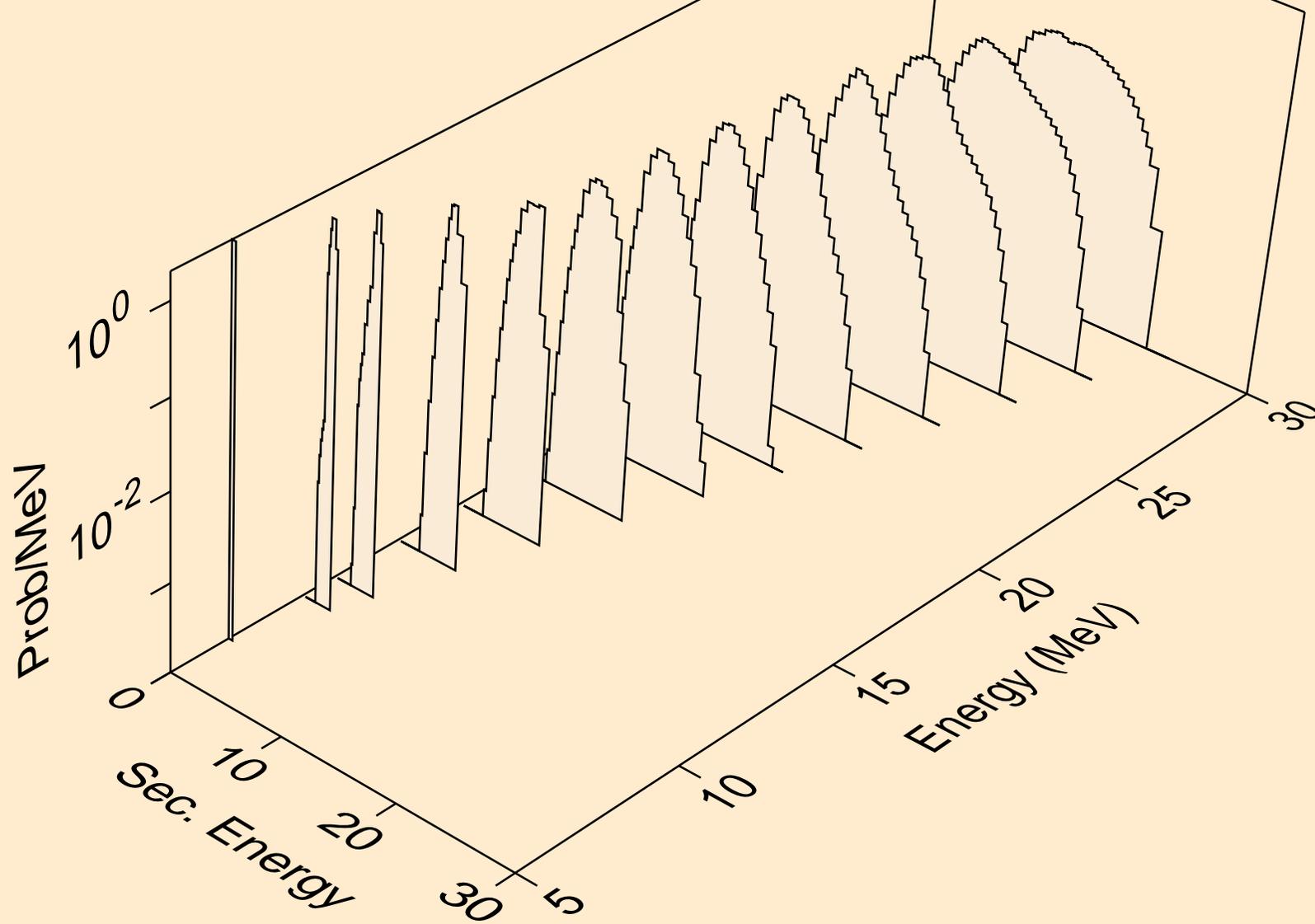
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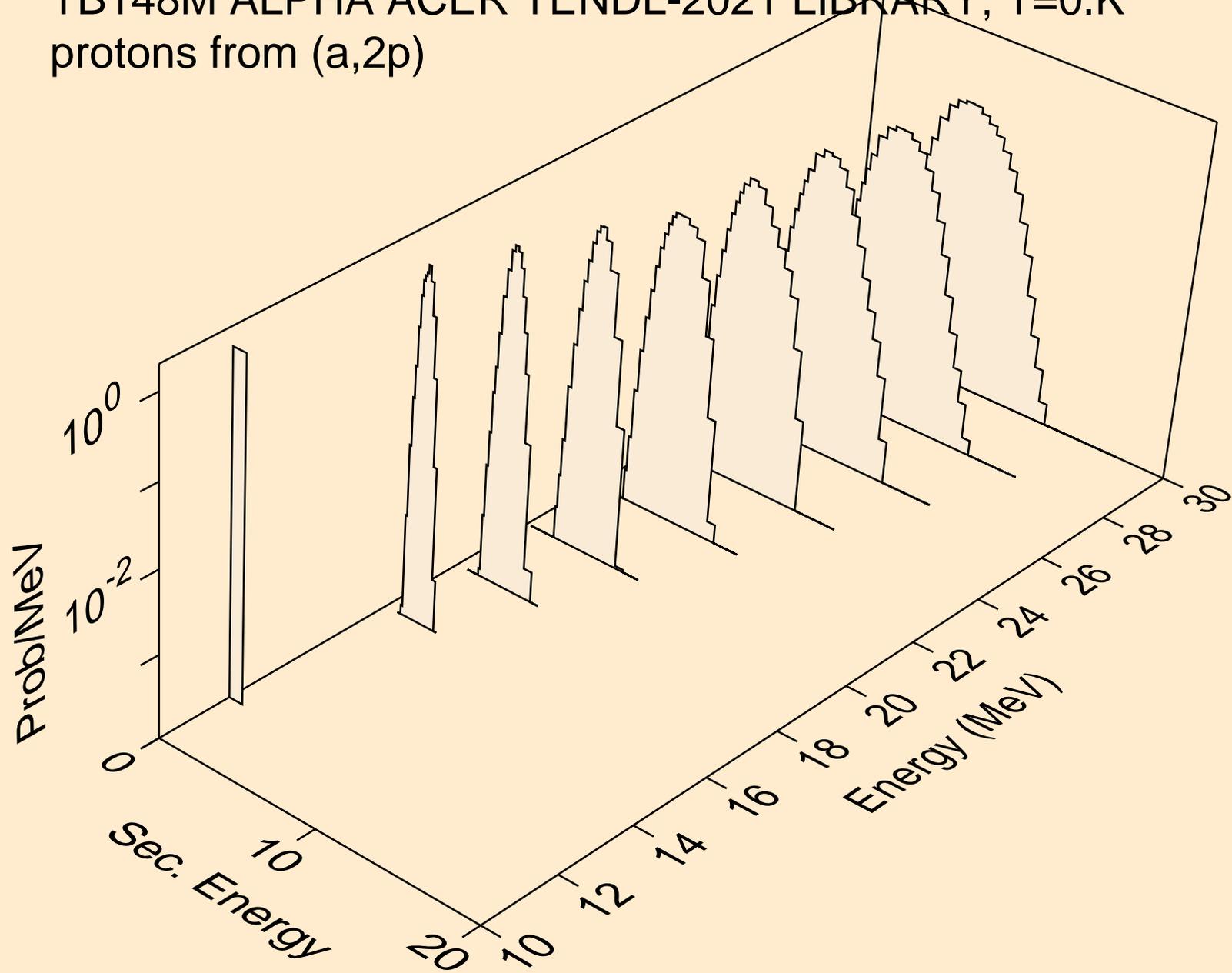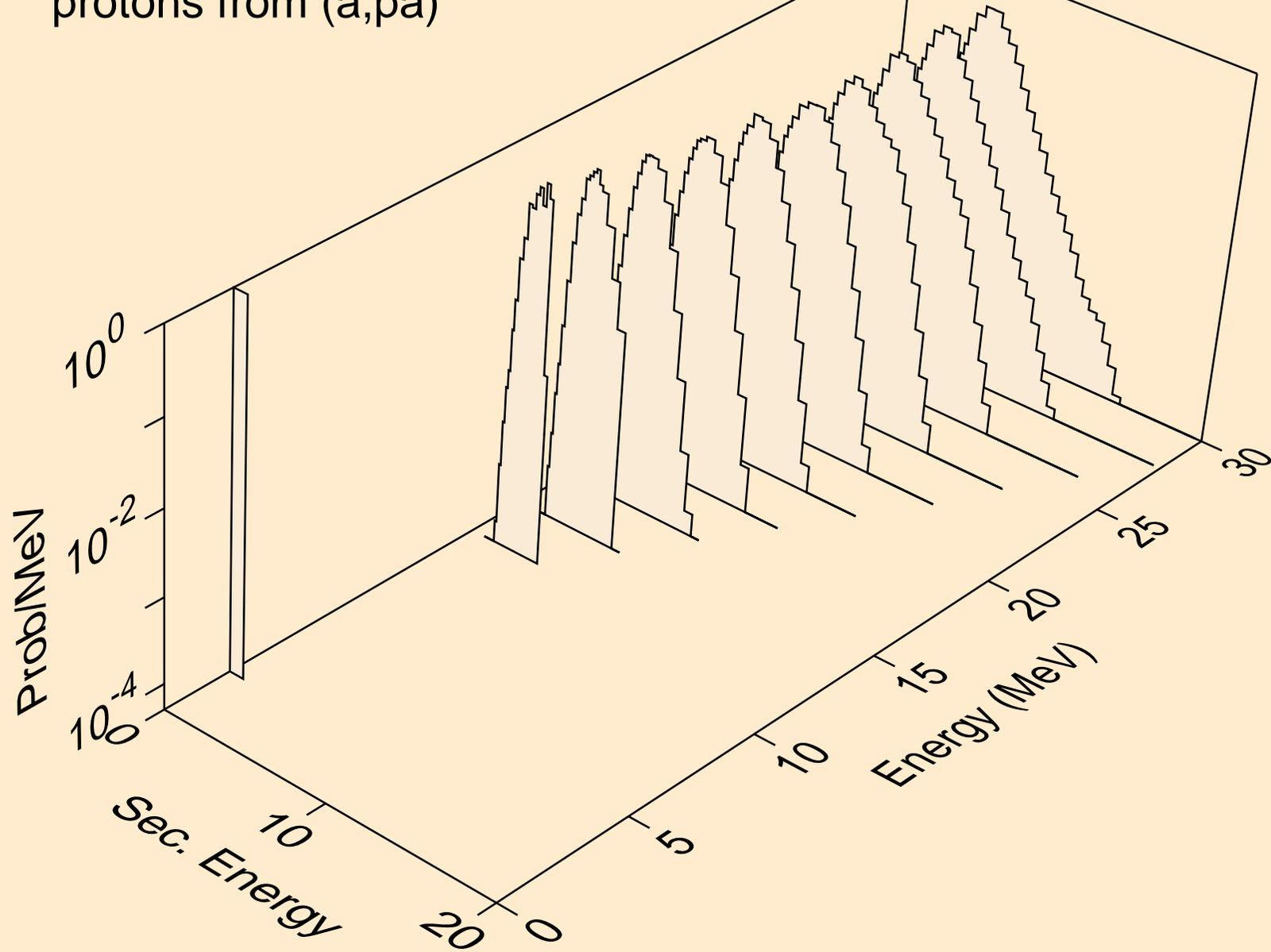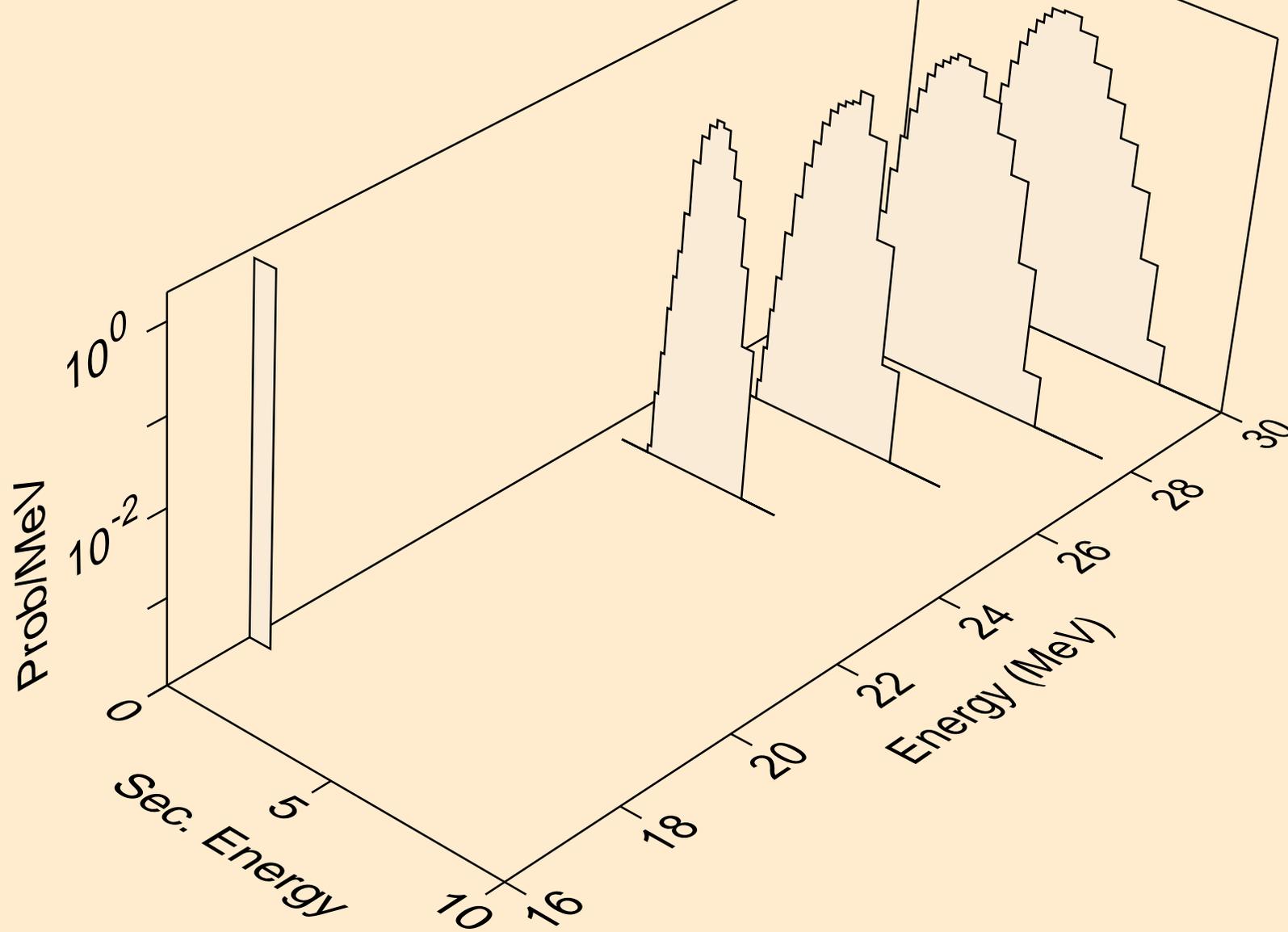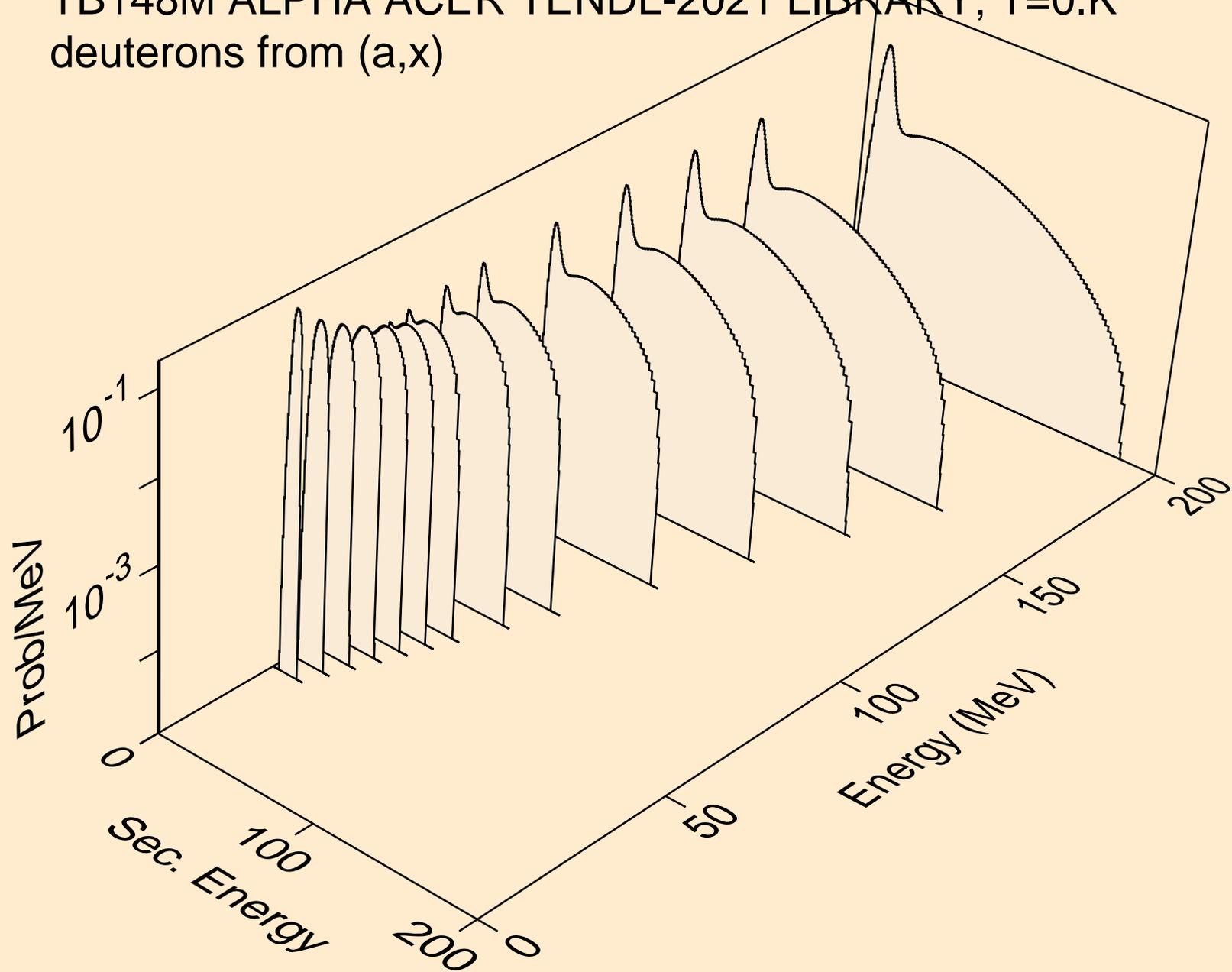protons from (a,2p)

TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
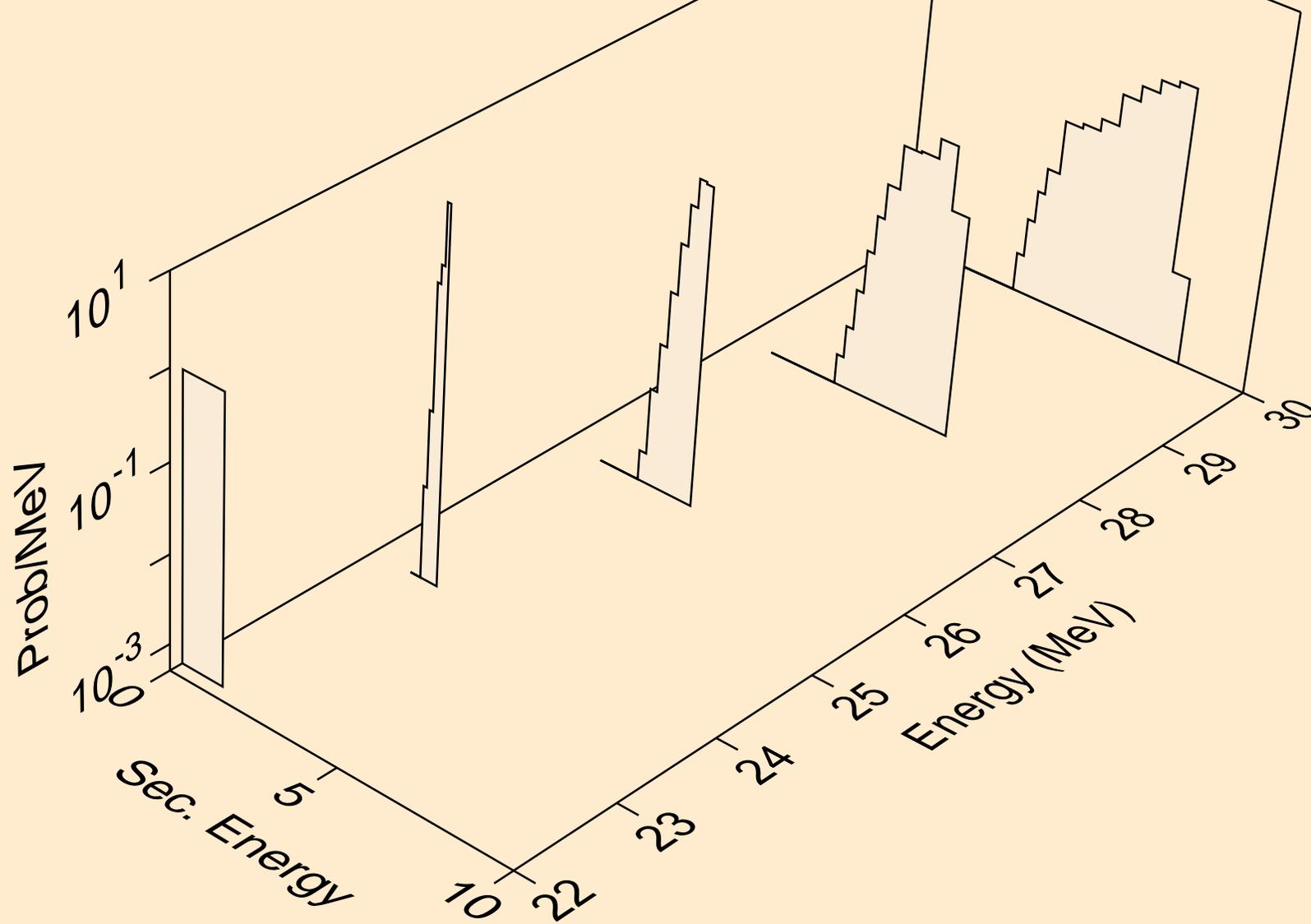protons from (a,pa)

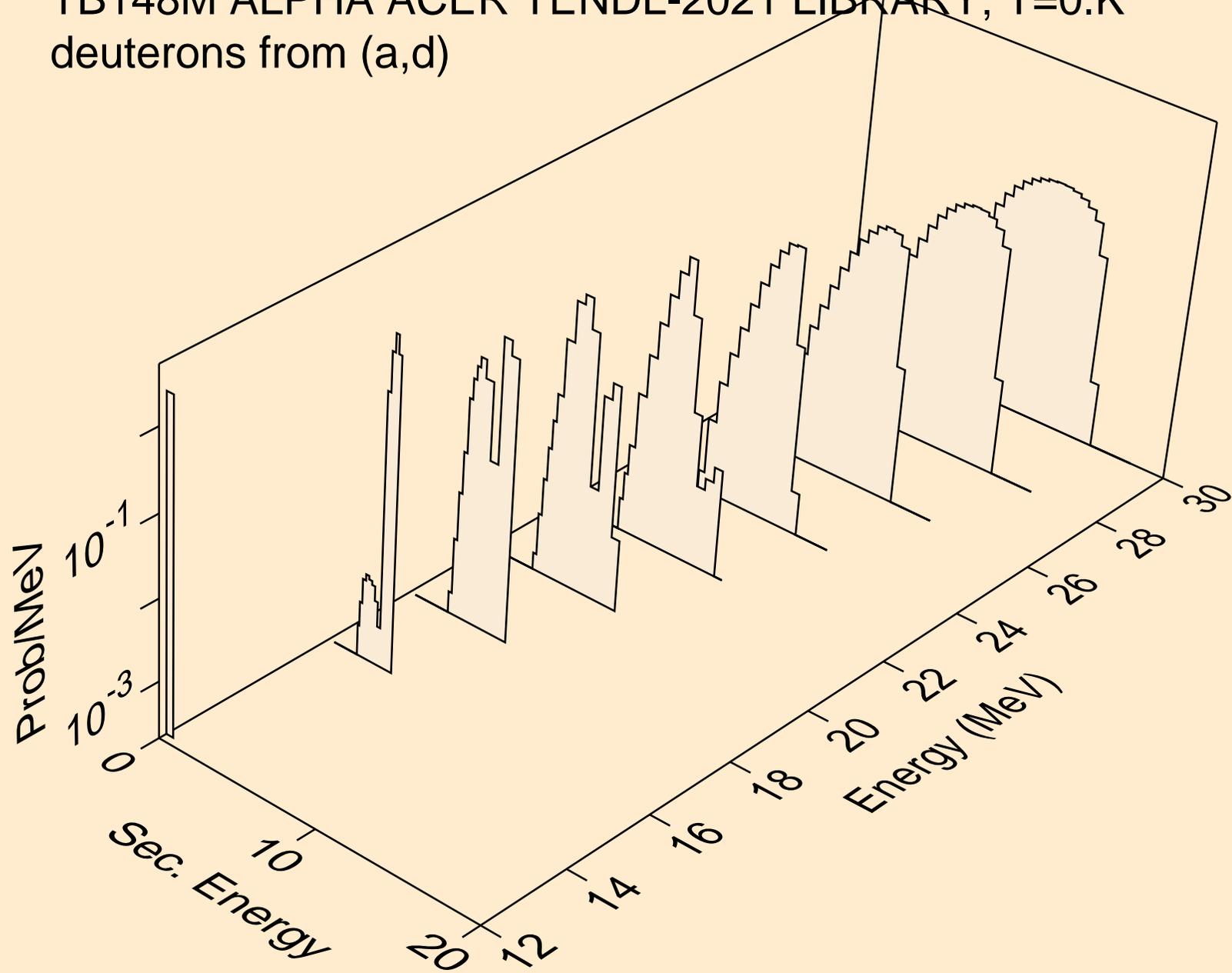TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
protons from (a,pd)

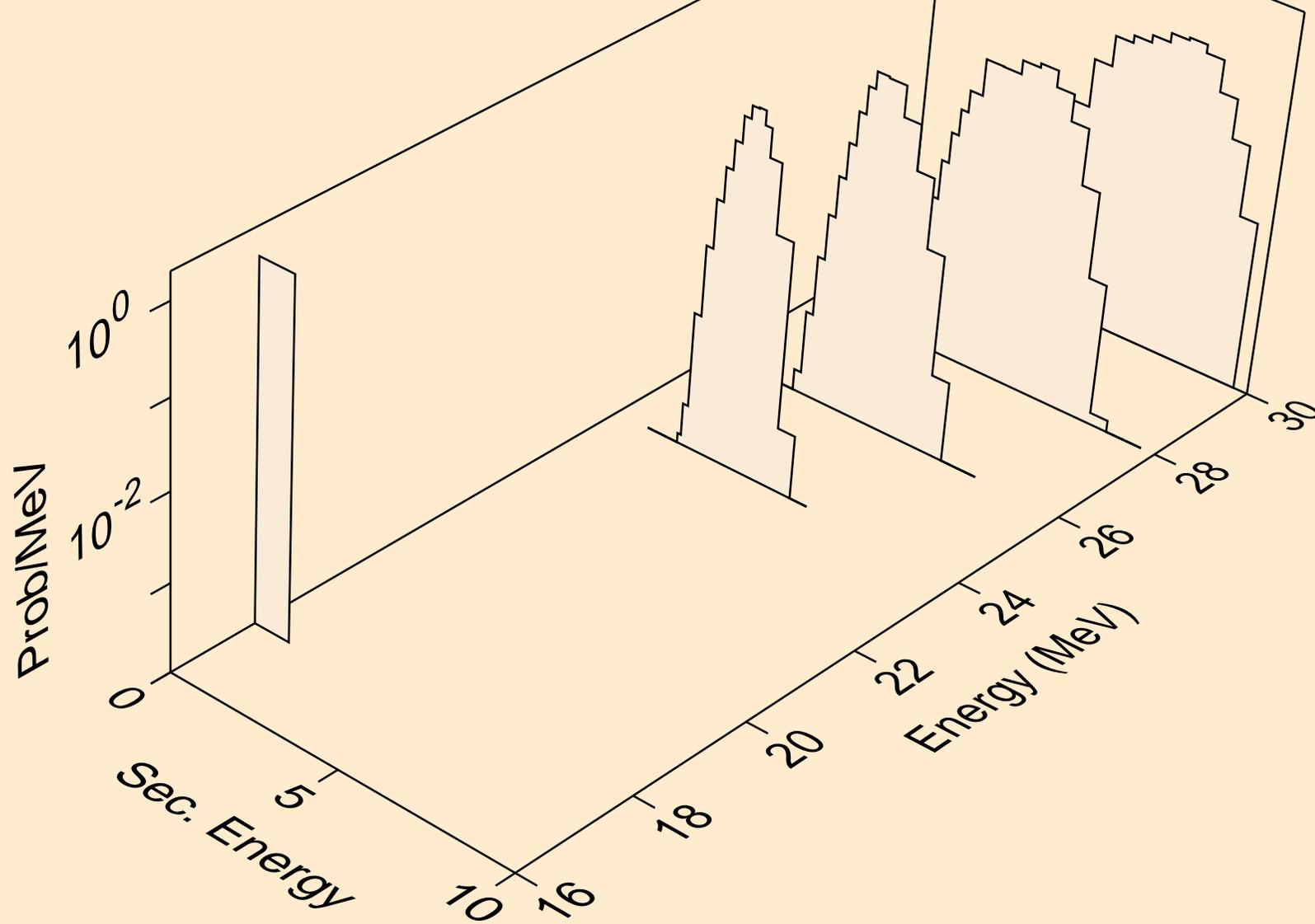TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
deuterons from (a,x)

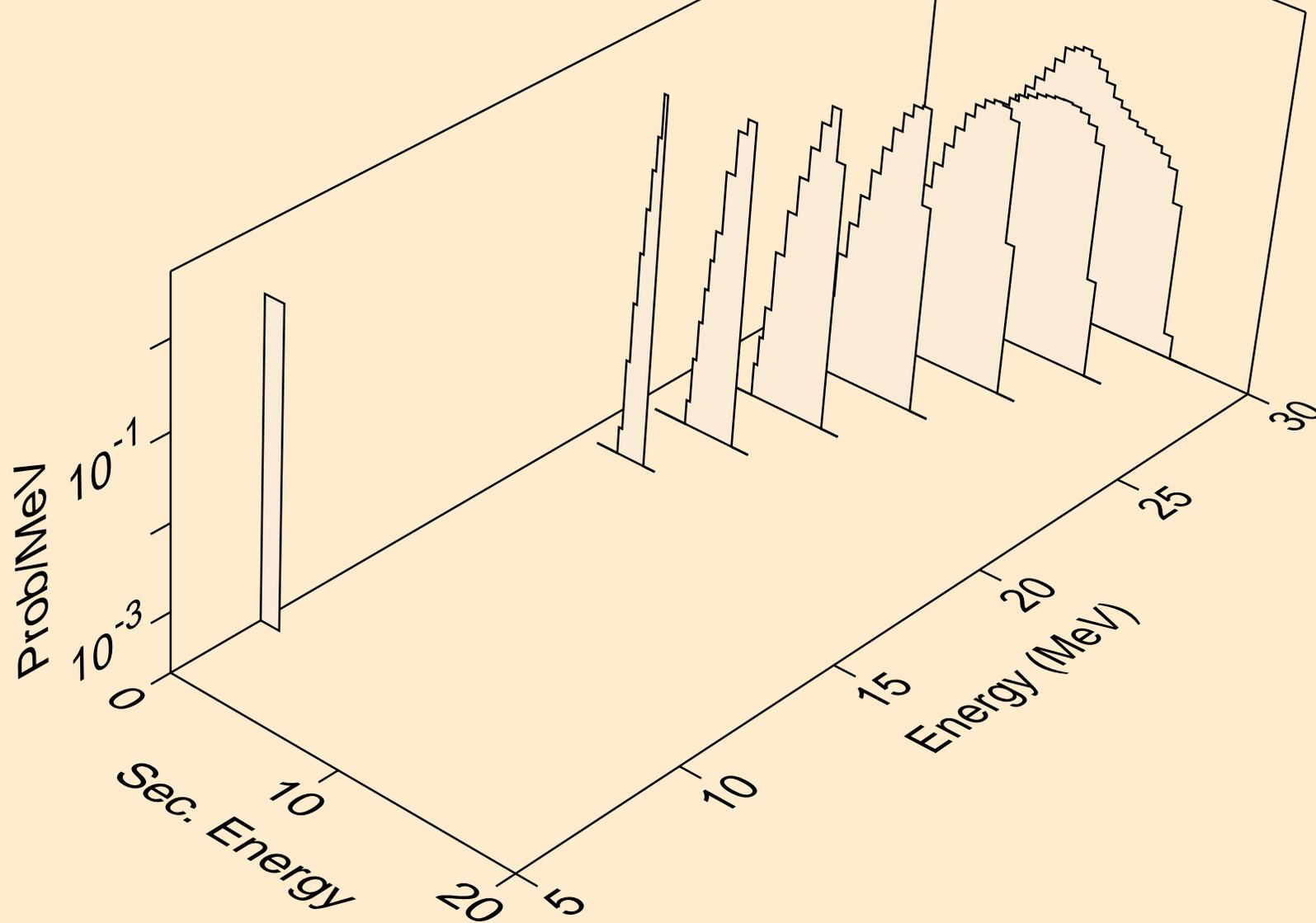TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
deuterons from (a,n*)d

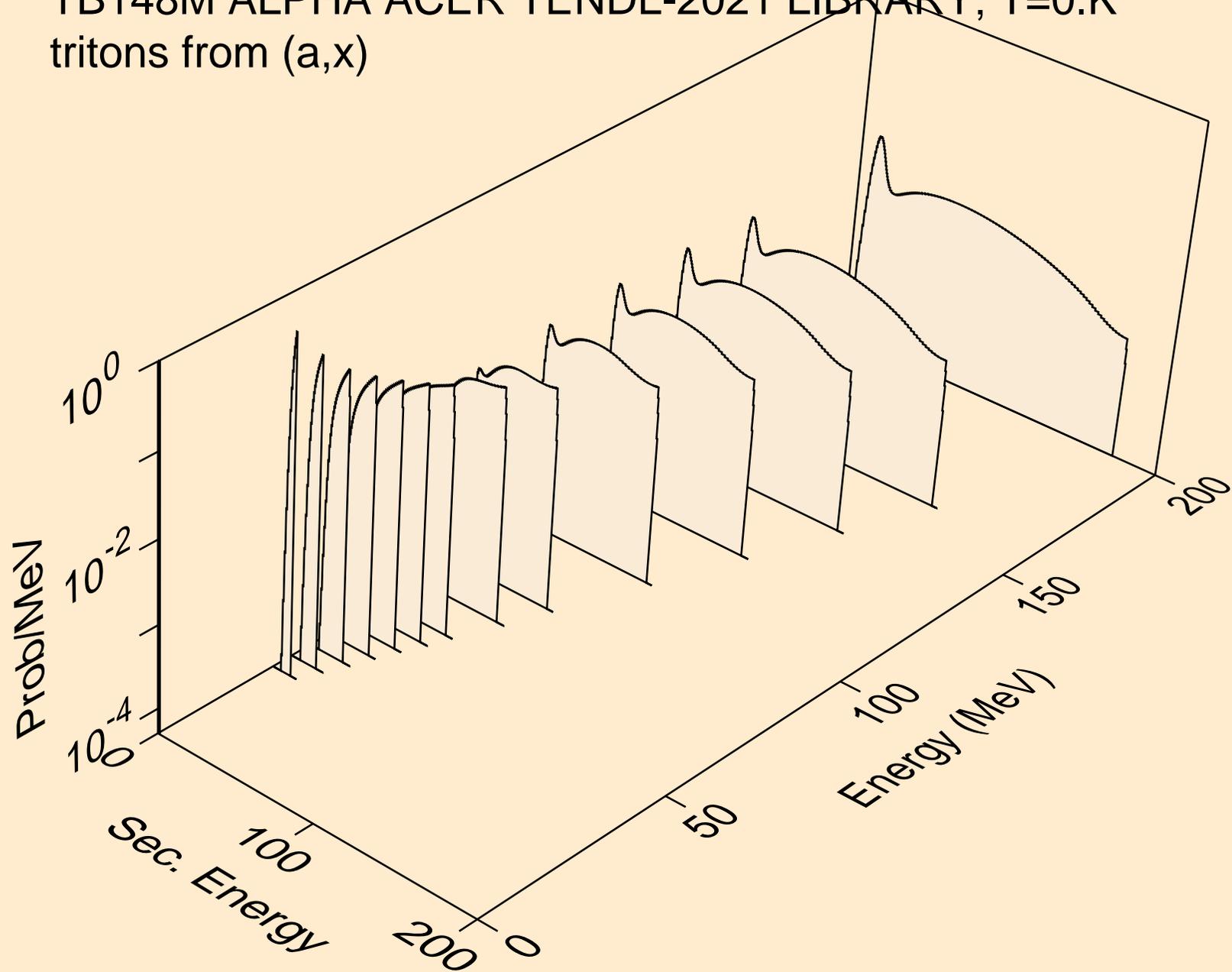TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
deuterons from (a,d)

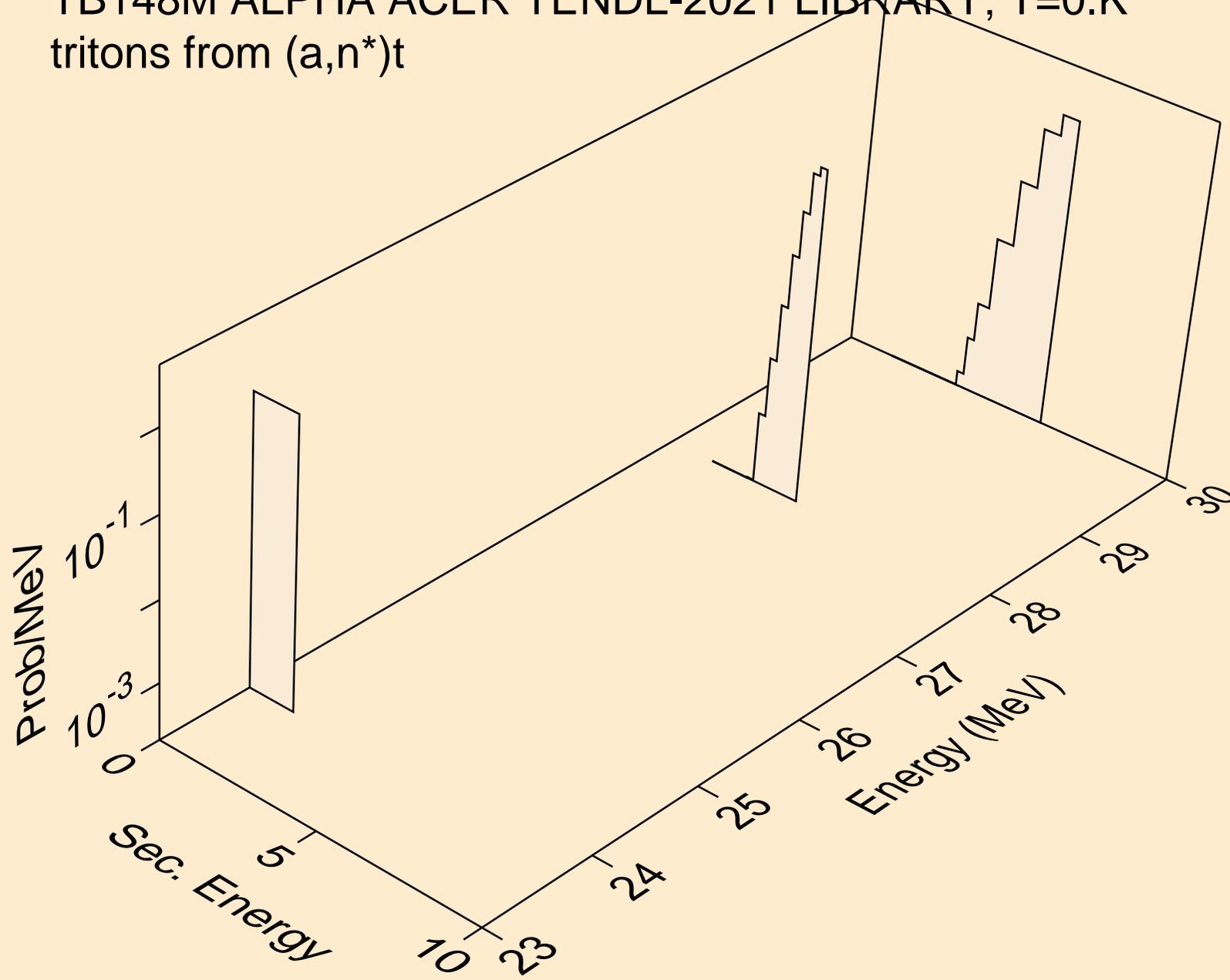TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
deuterons from (a,pd)

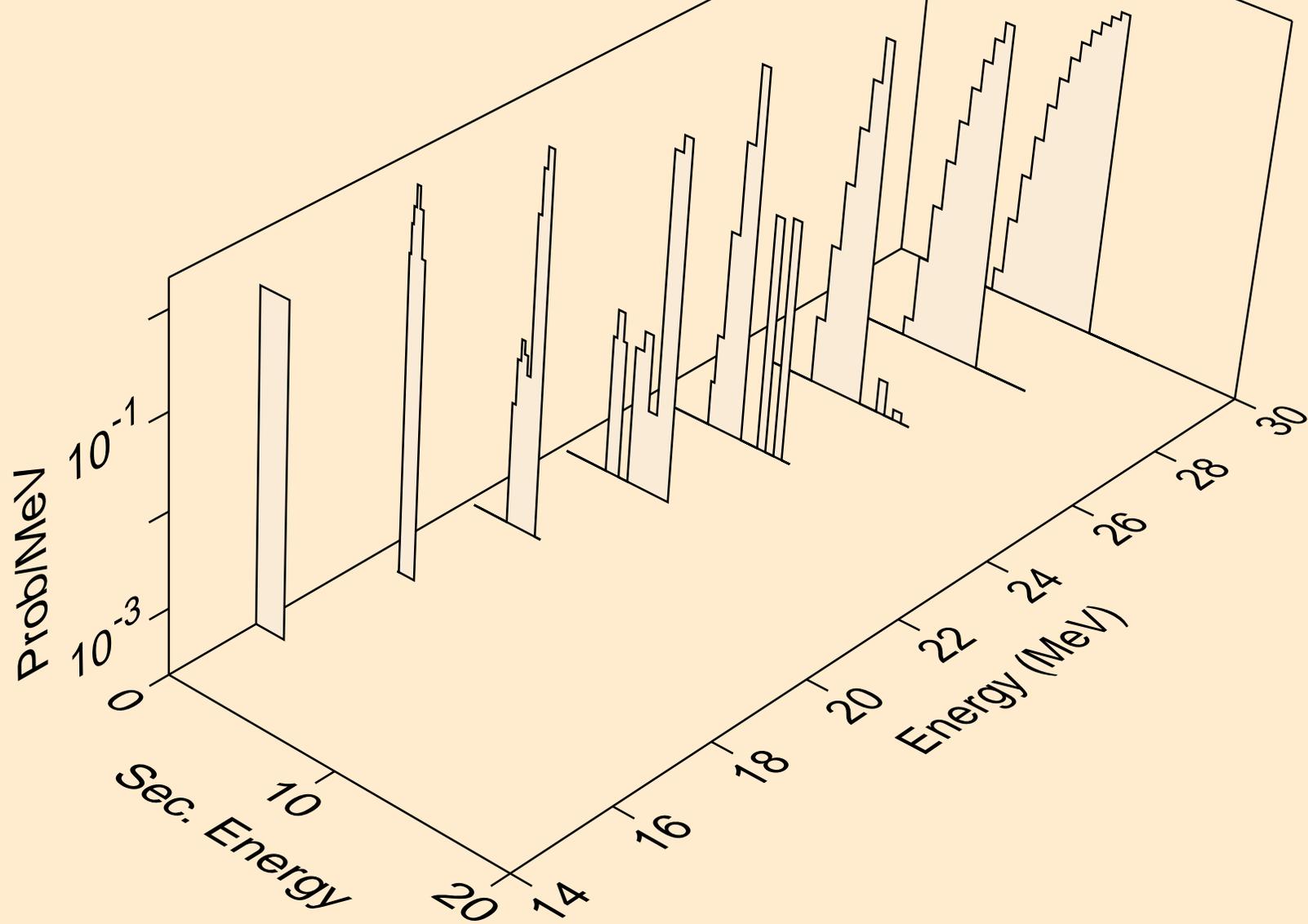TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
deuterons from (a,da)

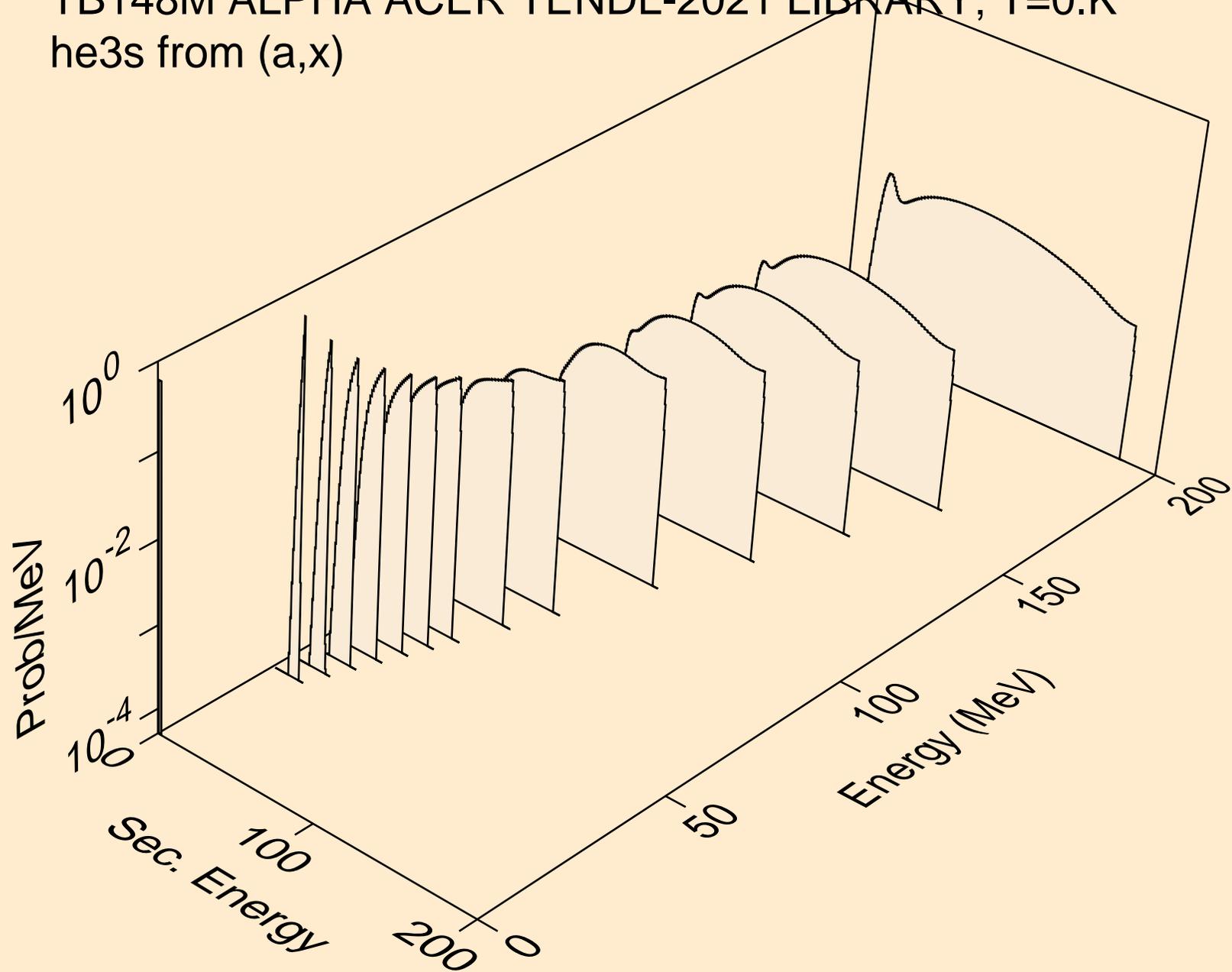TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
tritons from (a,x)

TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
tritons from (a,n*)t

TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
tritons from (a,t)

TB148M ALPHA ACER TENDL-2021 LIBRARY; T=0.K
he3s from (a,x)

TB148M 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)

10 12 14 16 18 20 22 24 26 28 30