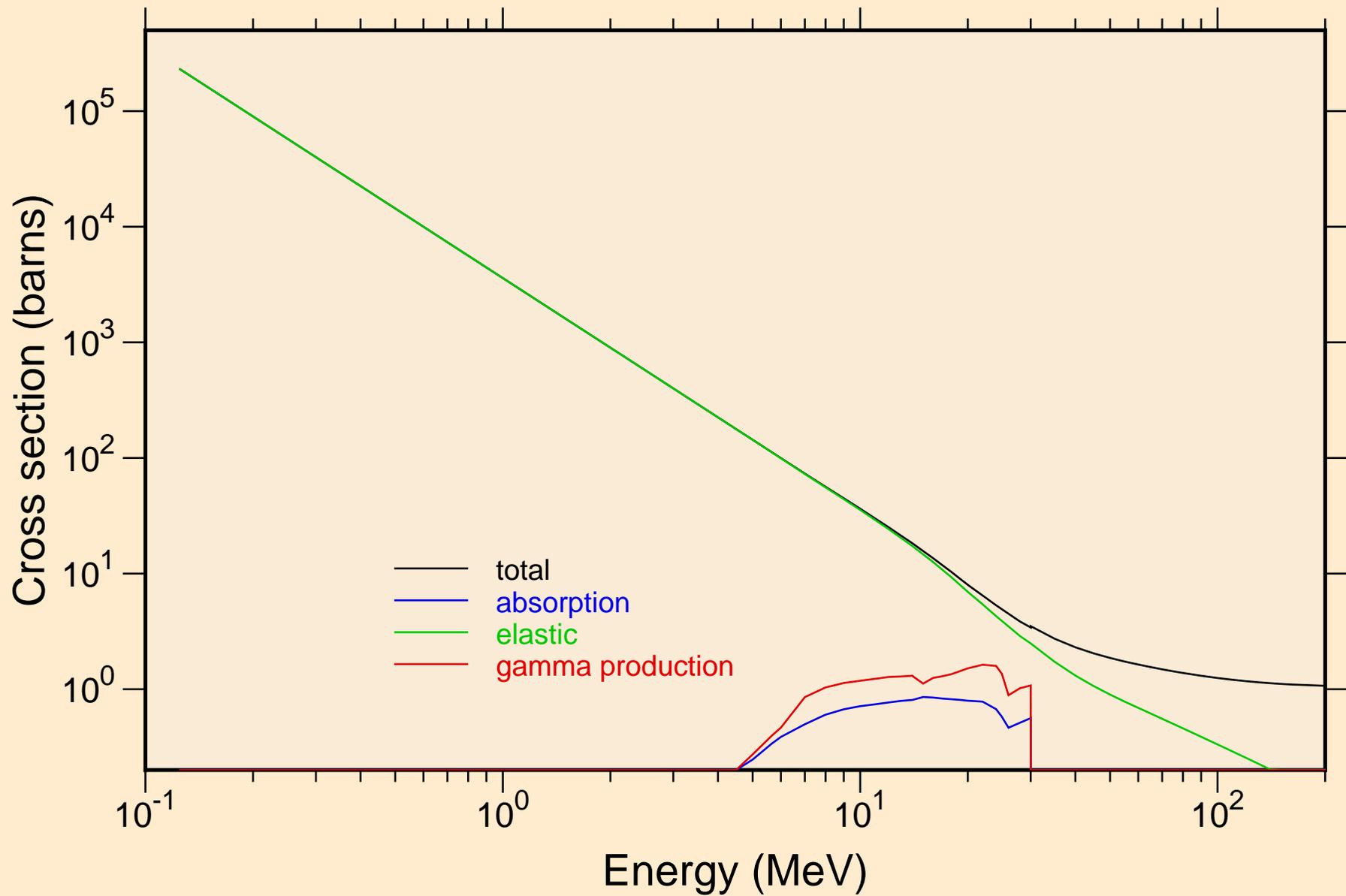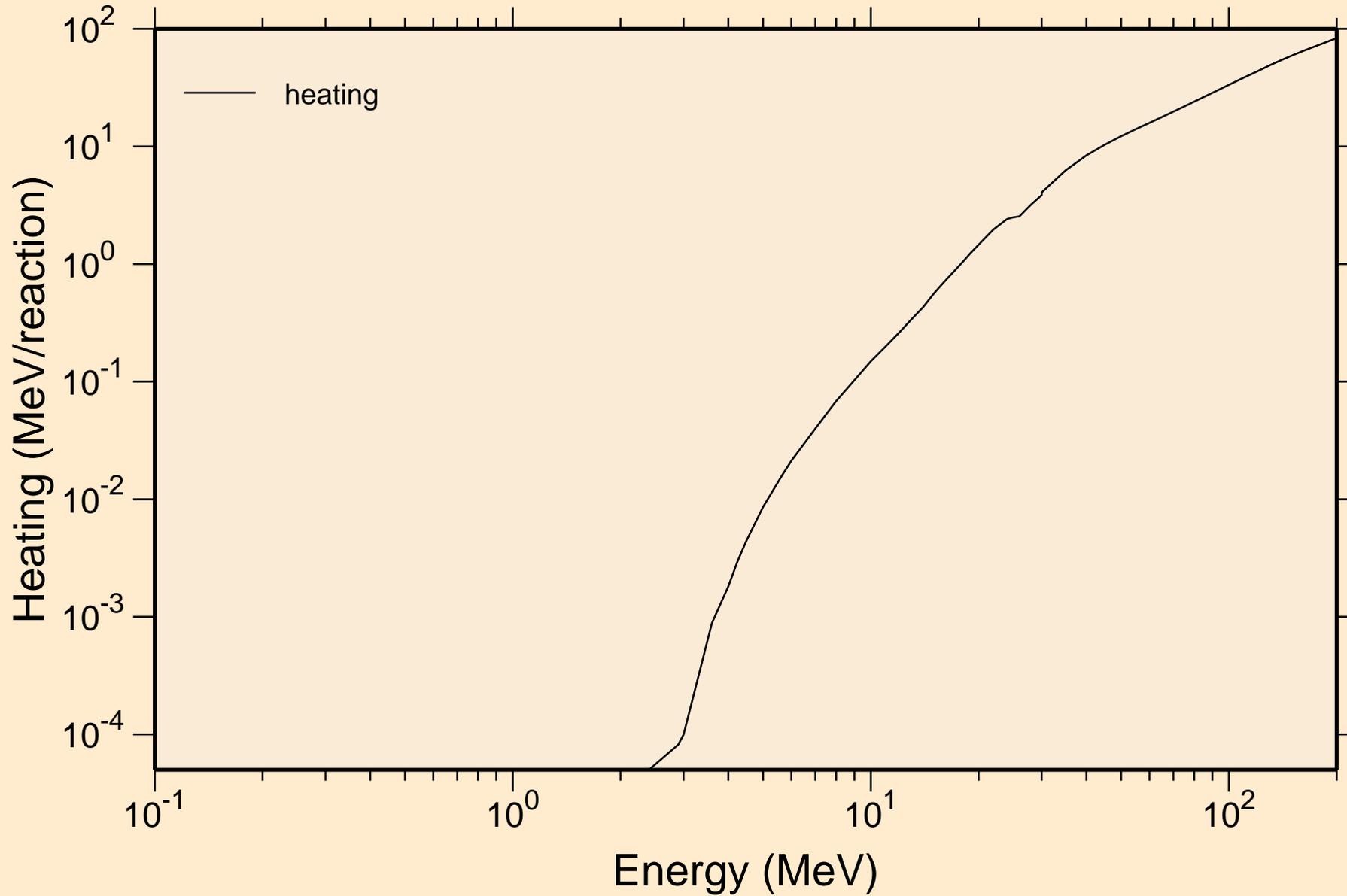NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
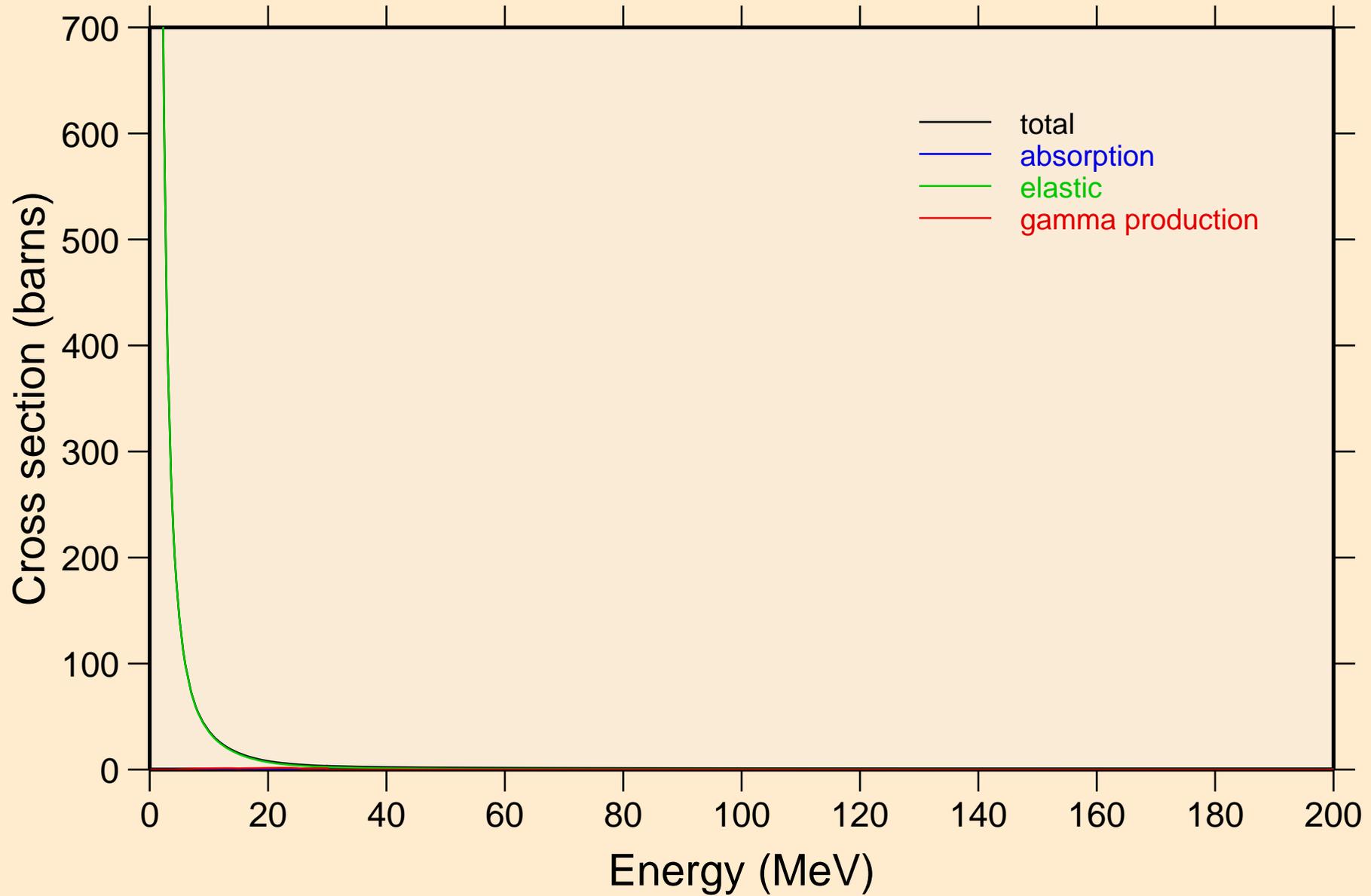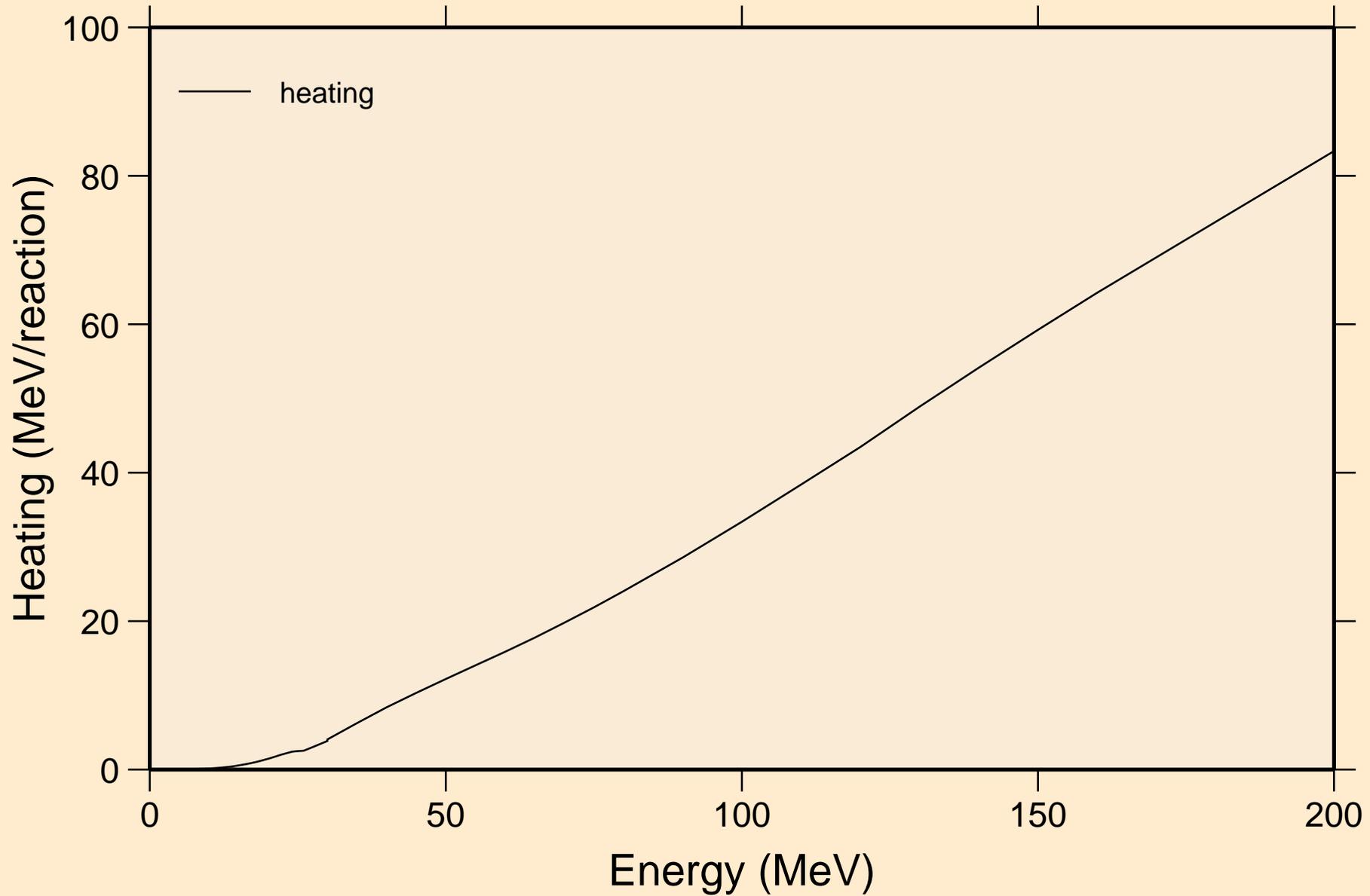Principal cross sections

NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Heating

NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
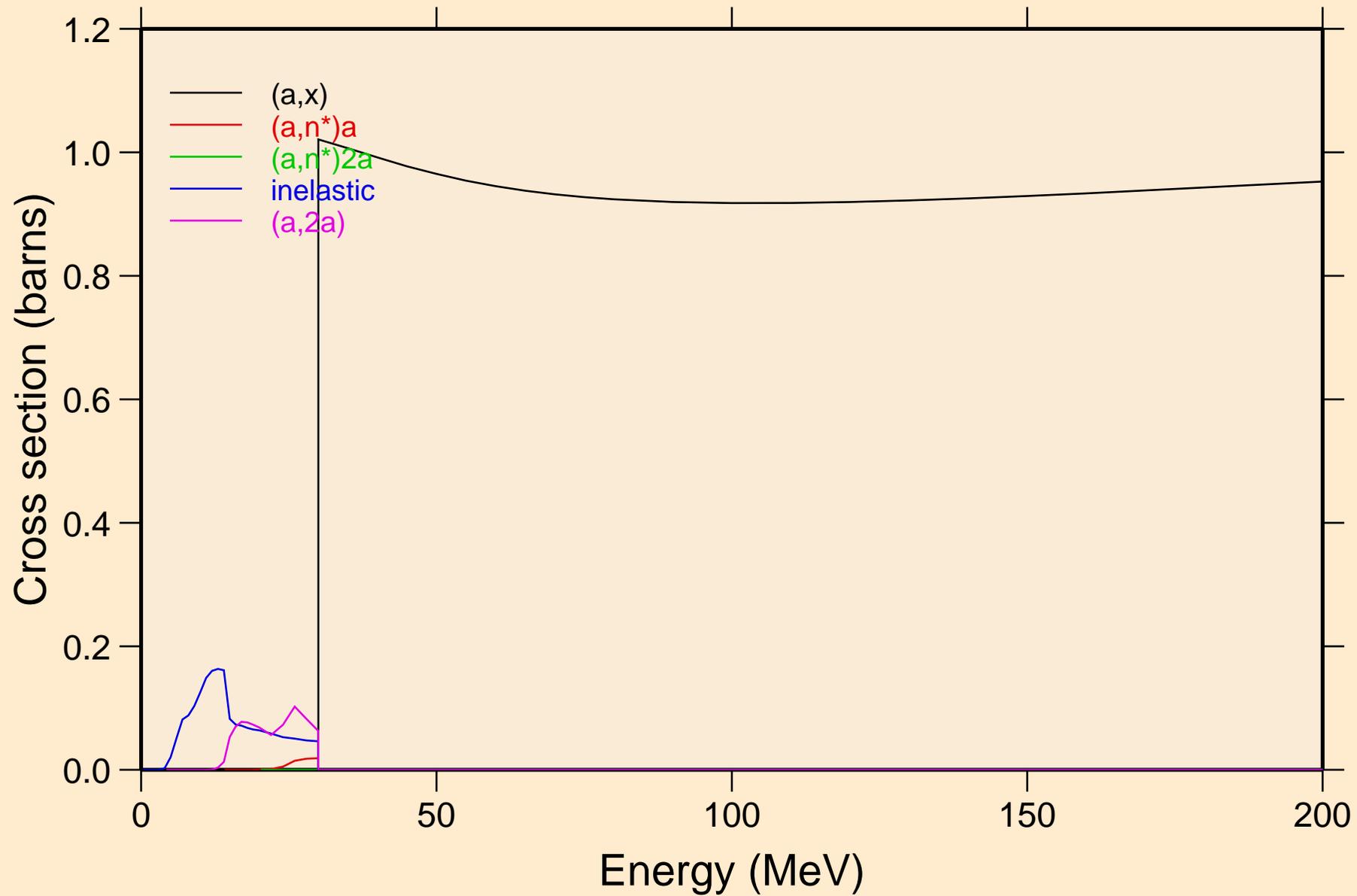Principal cross sections

Legend:
- total
- absorption
- elastic
- gamma production

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

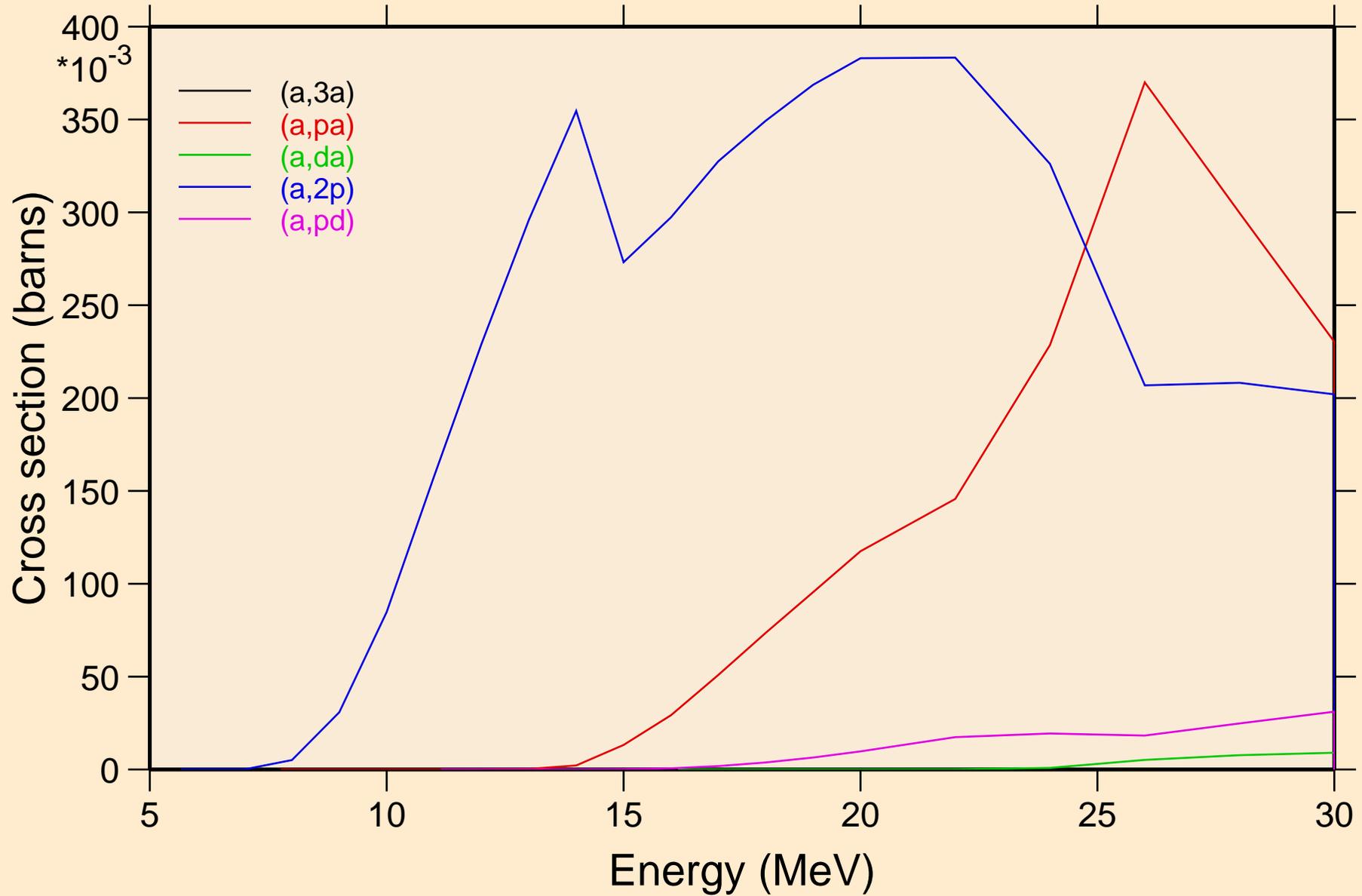NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Heating

NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Threshold reactions

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

NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Threshold reactions

Legend:
- (a,3a) — black
- (a,pa) — red
- (a,da) — green
- (a,2p) — blue
- (a,pd) — magenta

X-axis: Energy (MeV)
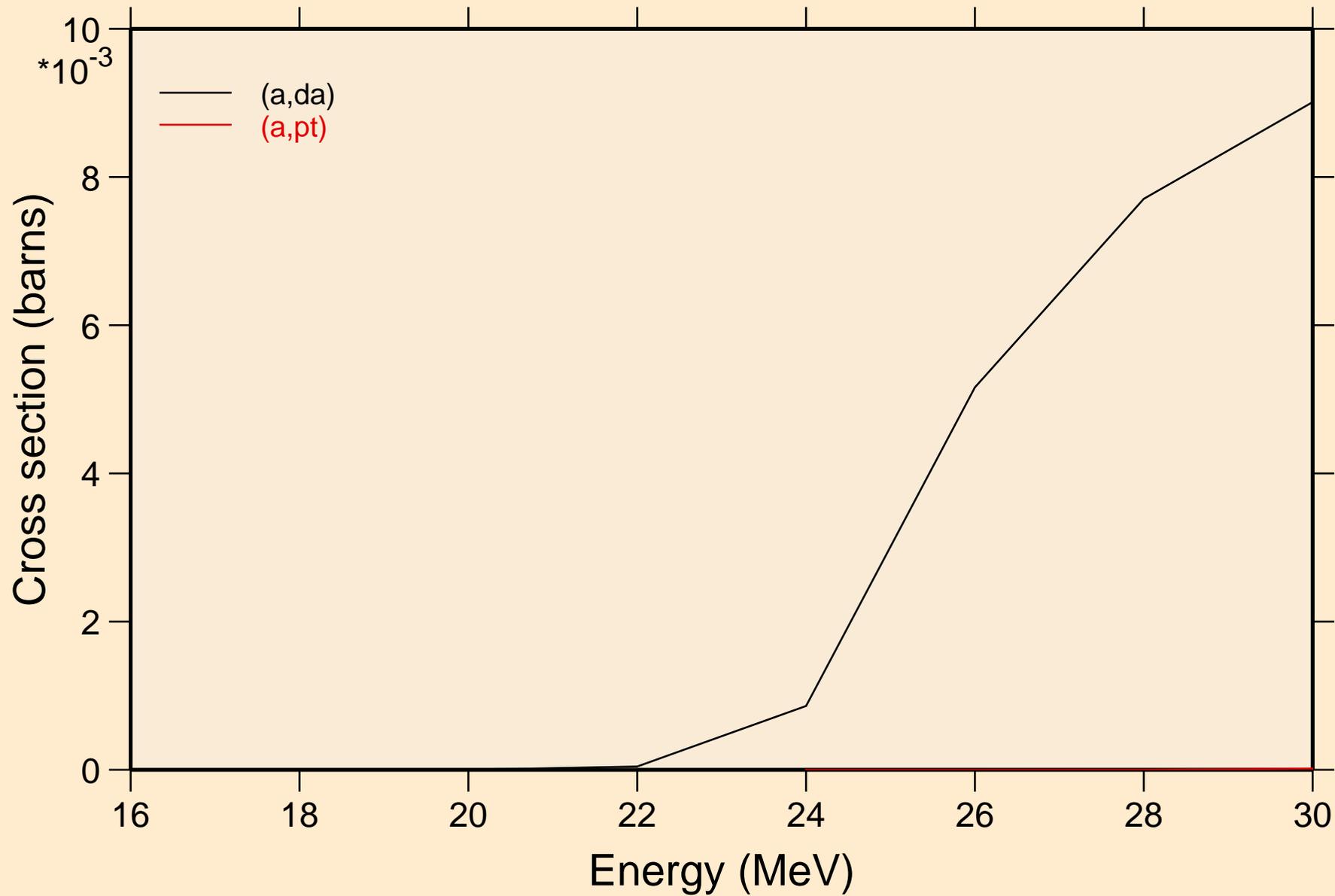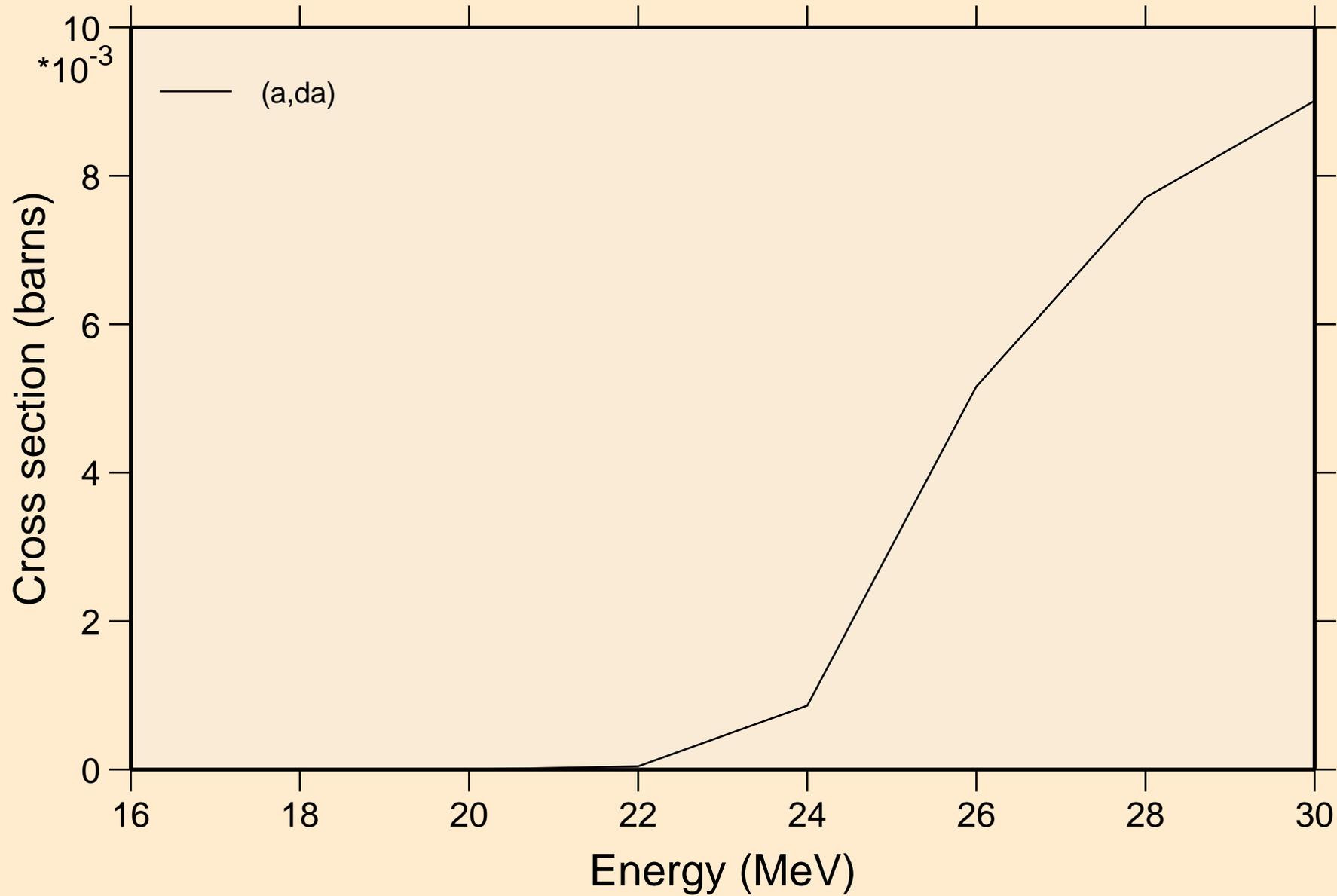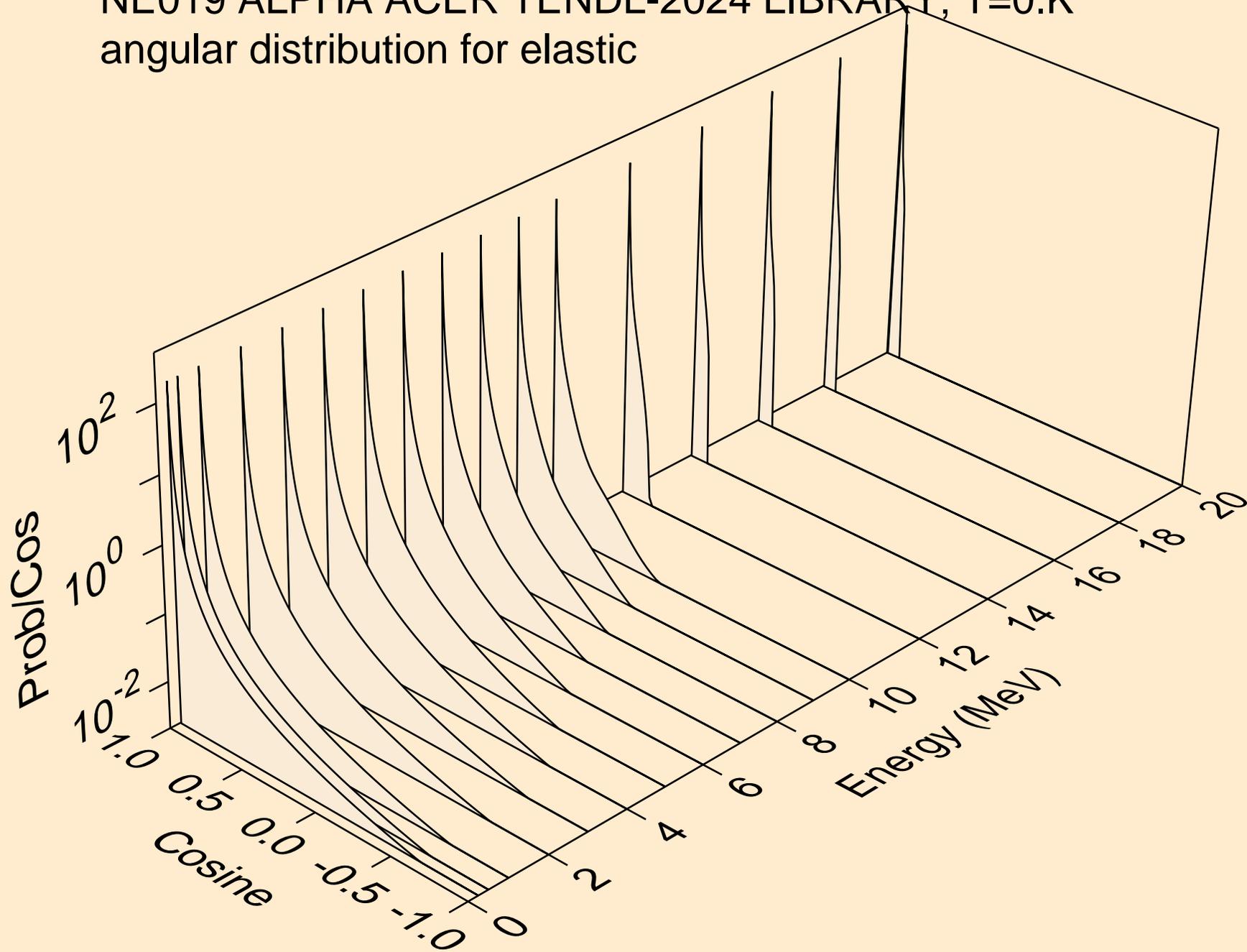Y-axis: Cross section (barns), ×10⁻³

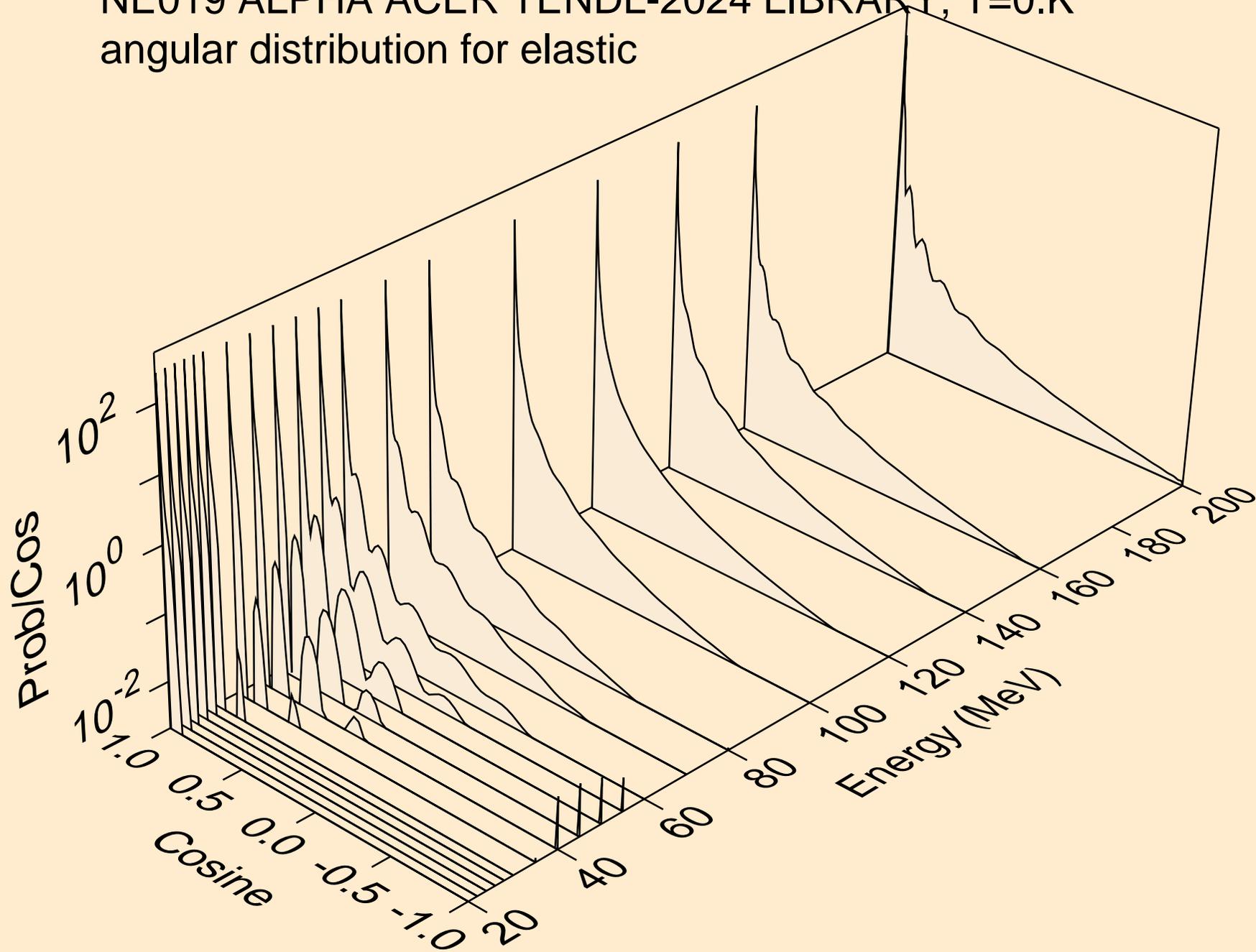NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Threshold reactions

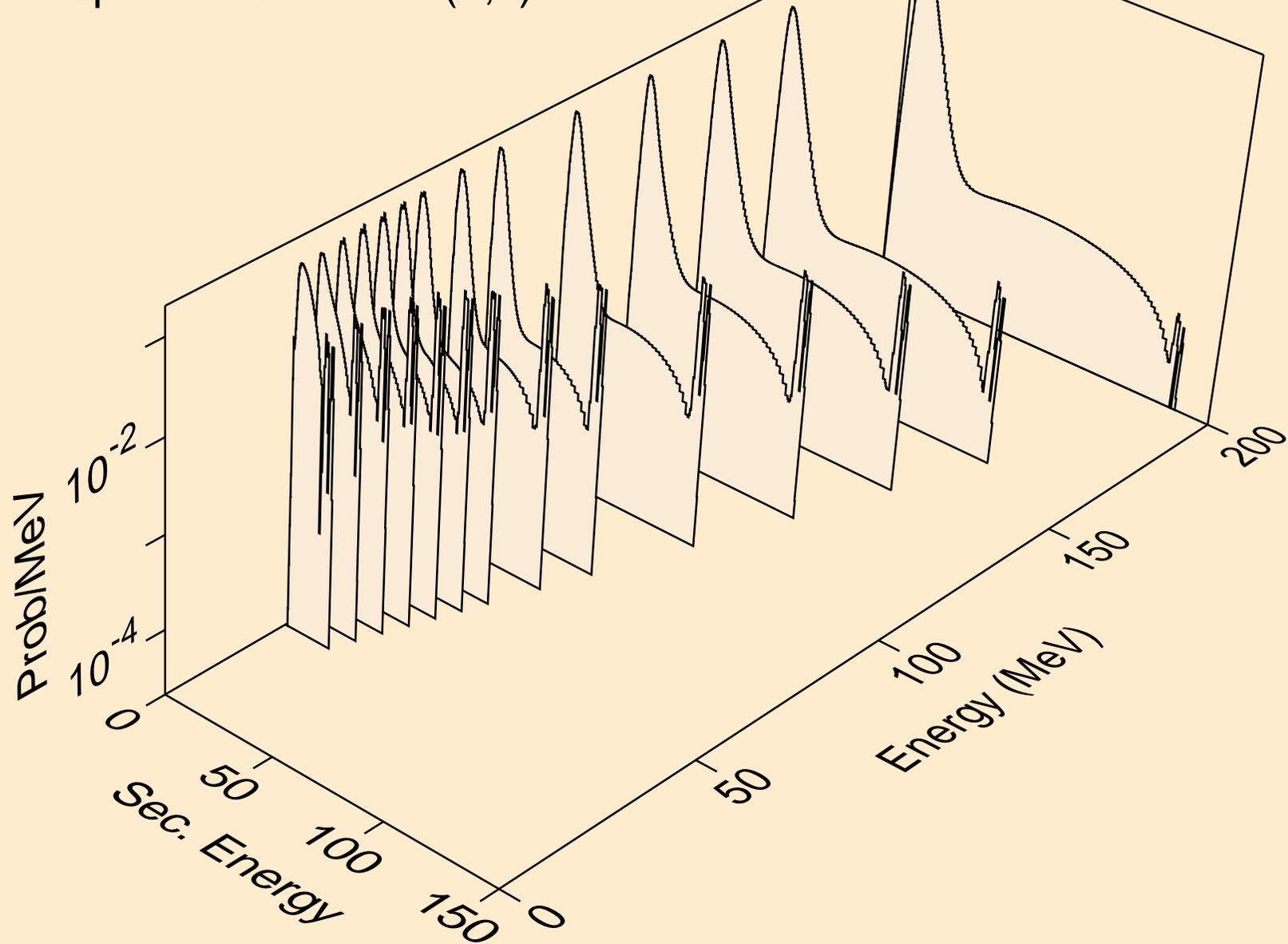NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Threshold reactions

(a,da)

NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
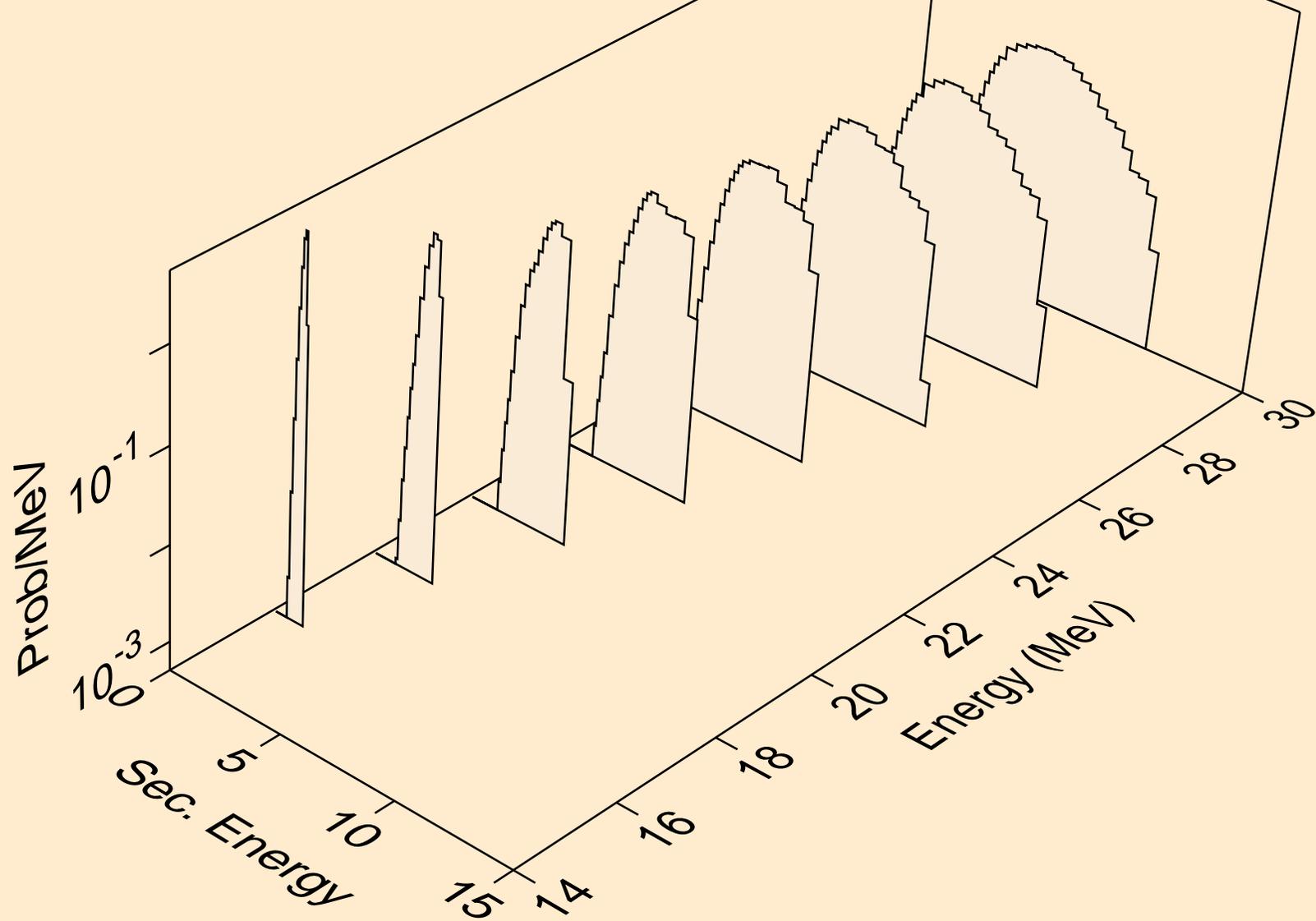angular distribution for elastic

NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
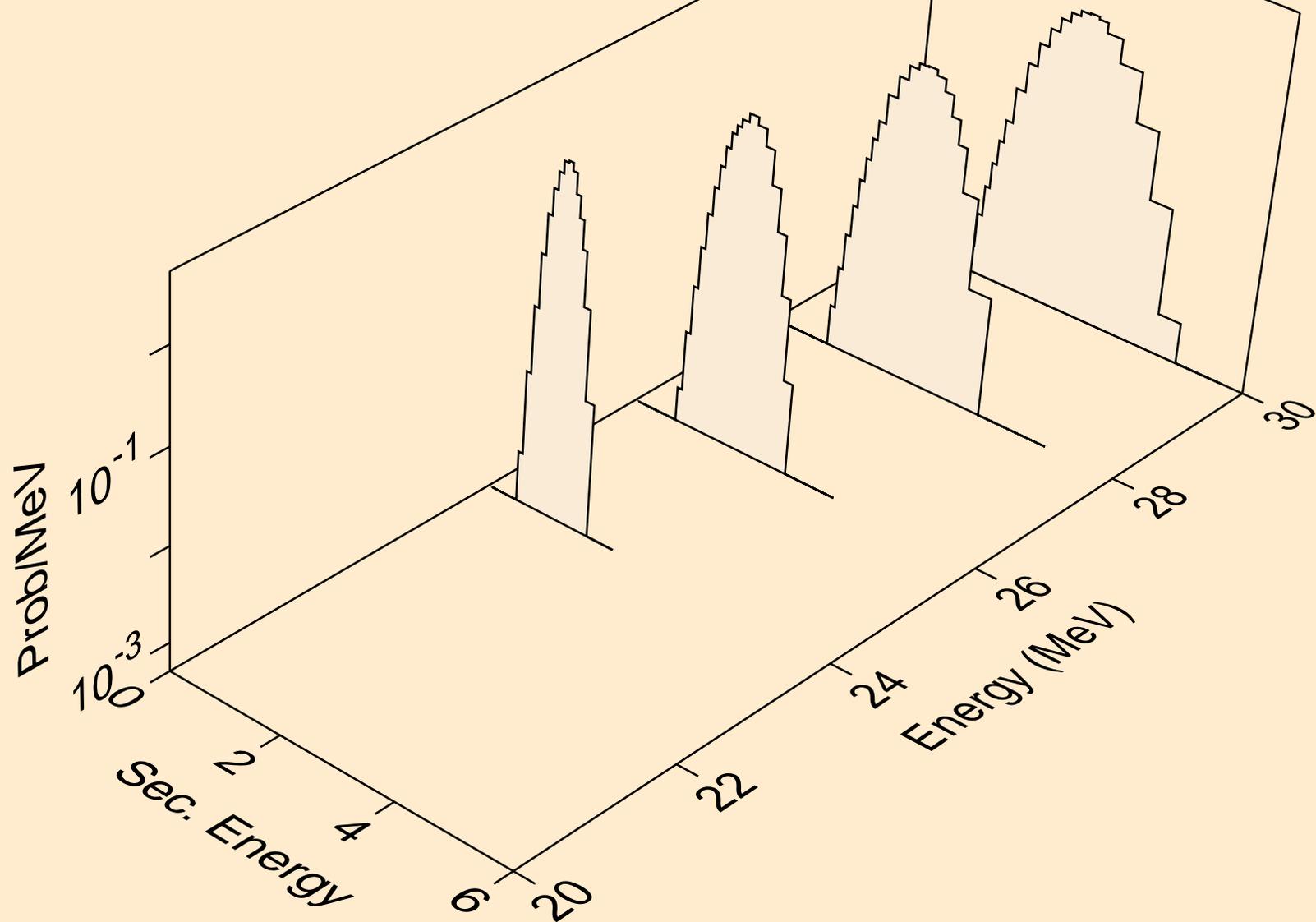angular distribution for elastic

NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
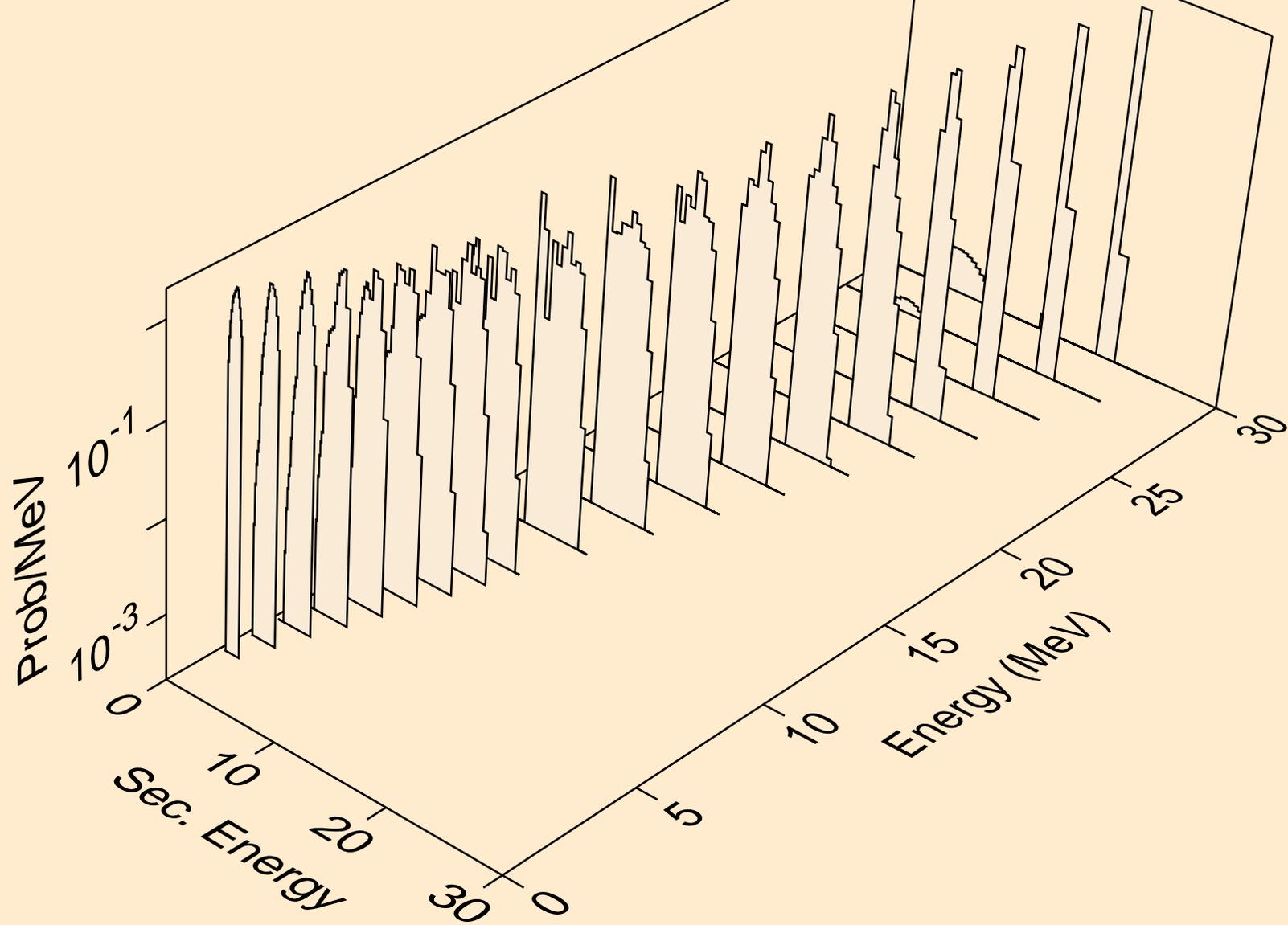Alpha emission for (a,x)

NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
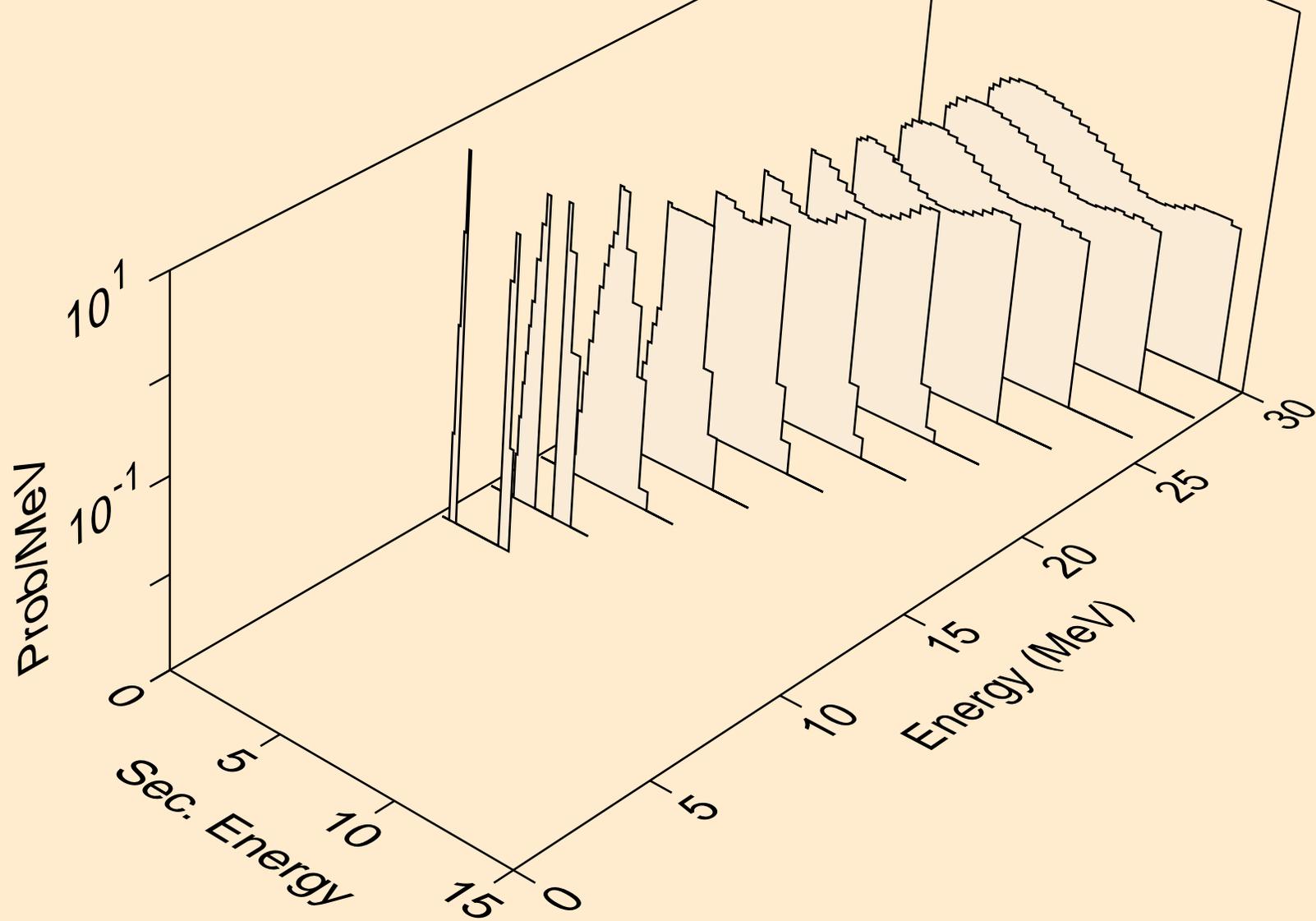Alpha emission for (a,n*)a

NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
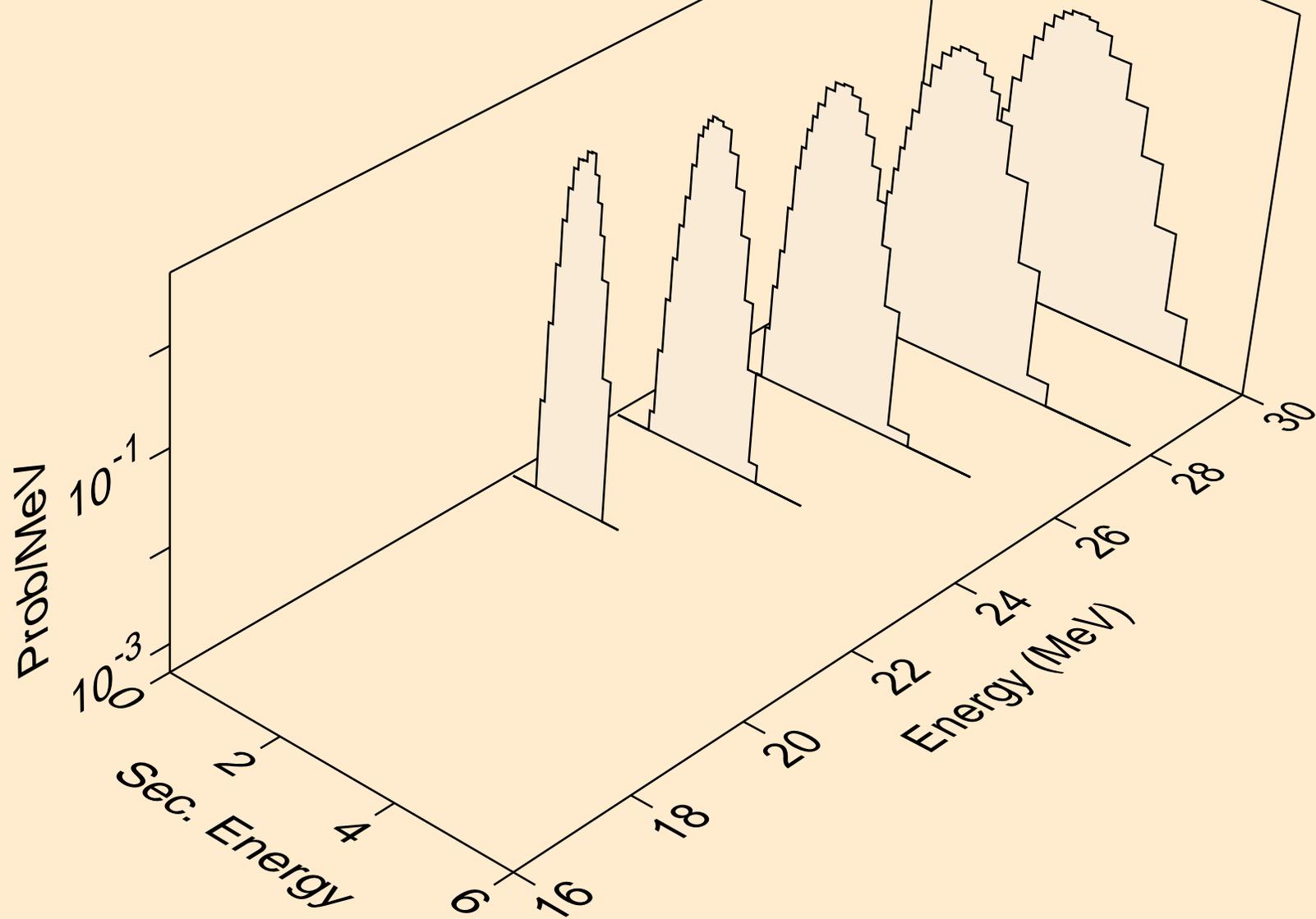Alpha emission for (a,n*)2a

NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
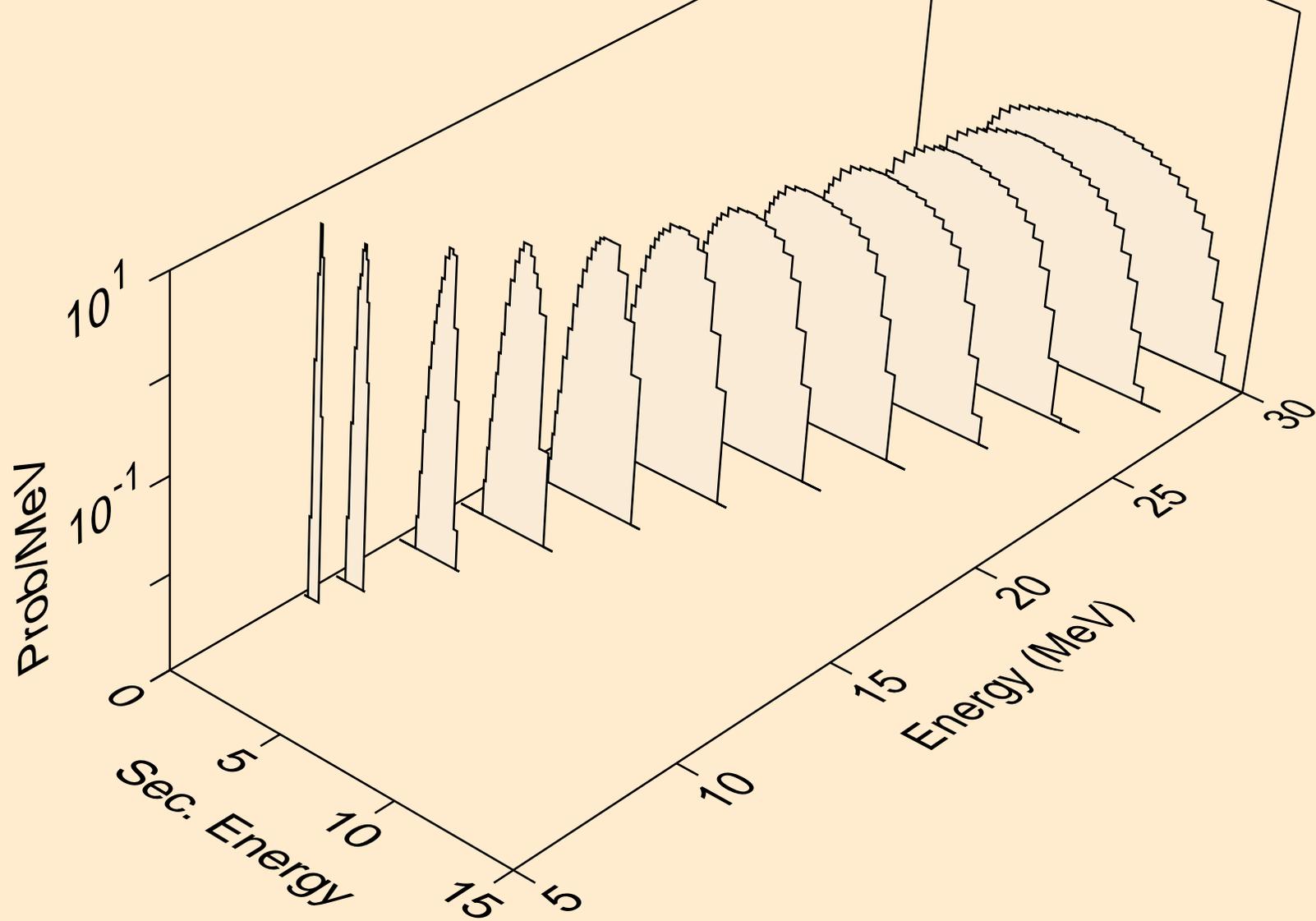Alpha emission for inelastic

NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
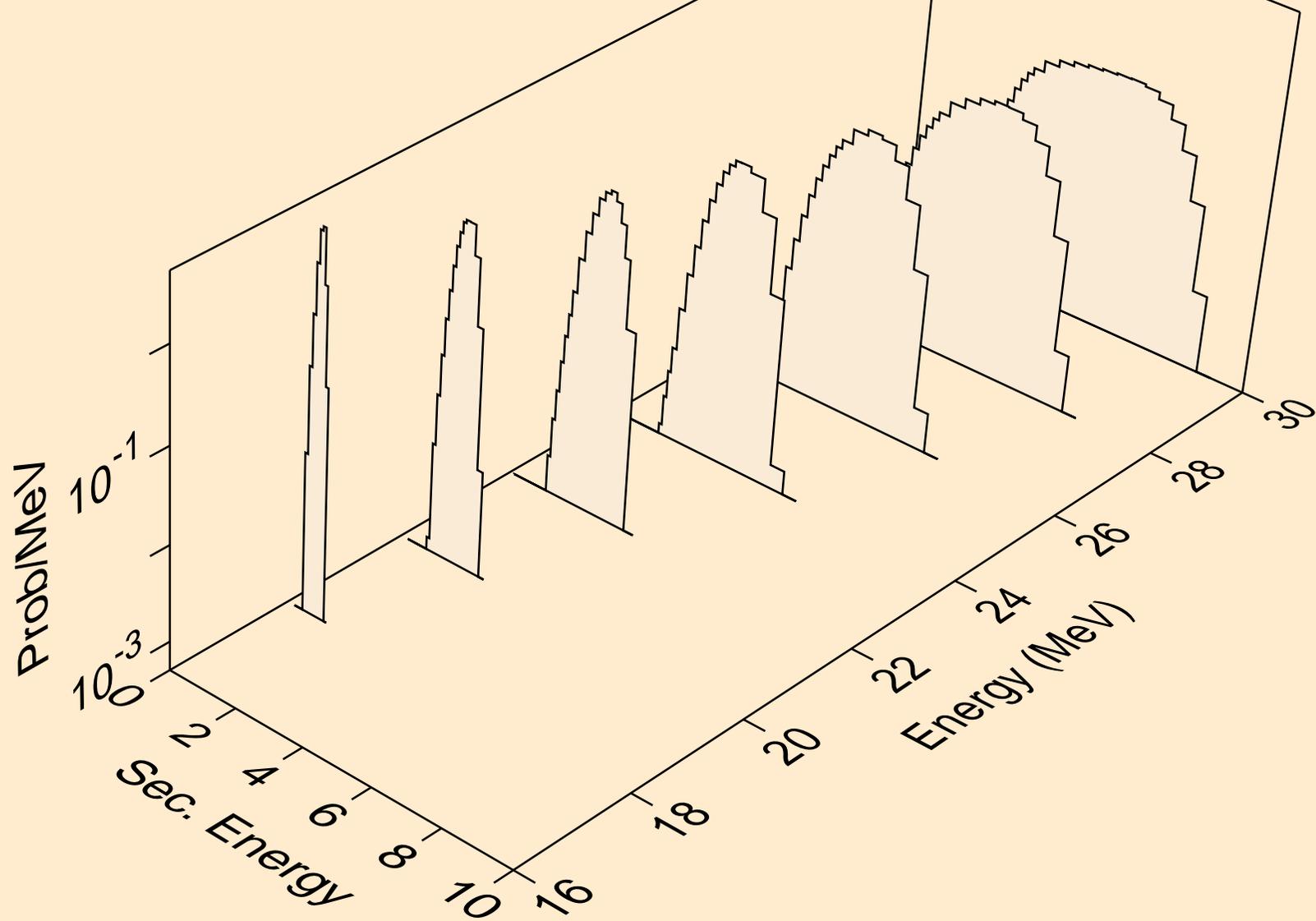Alpha emission for (a,2a)

NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
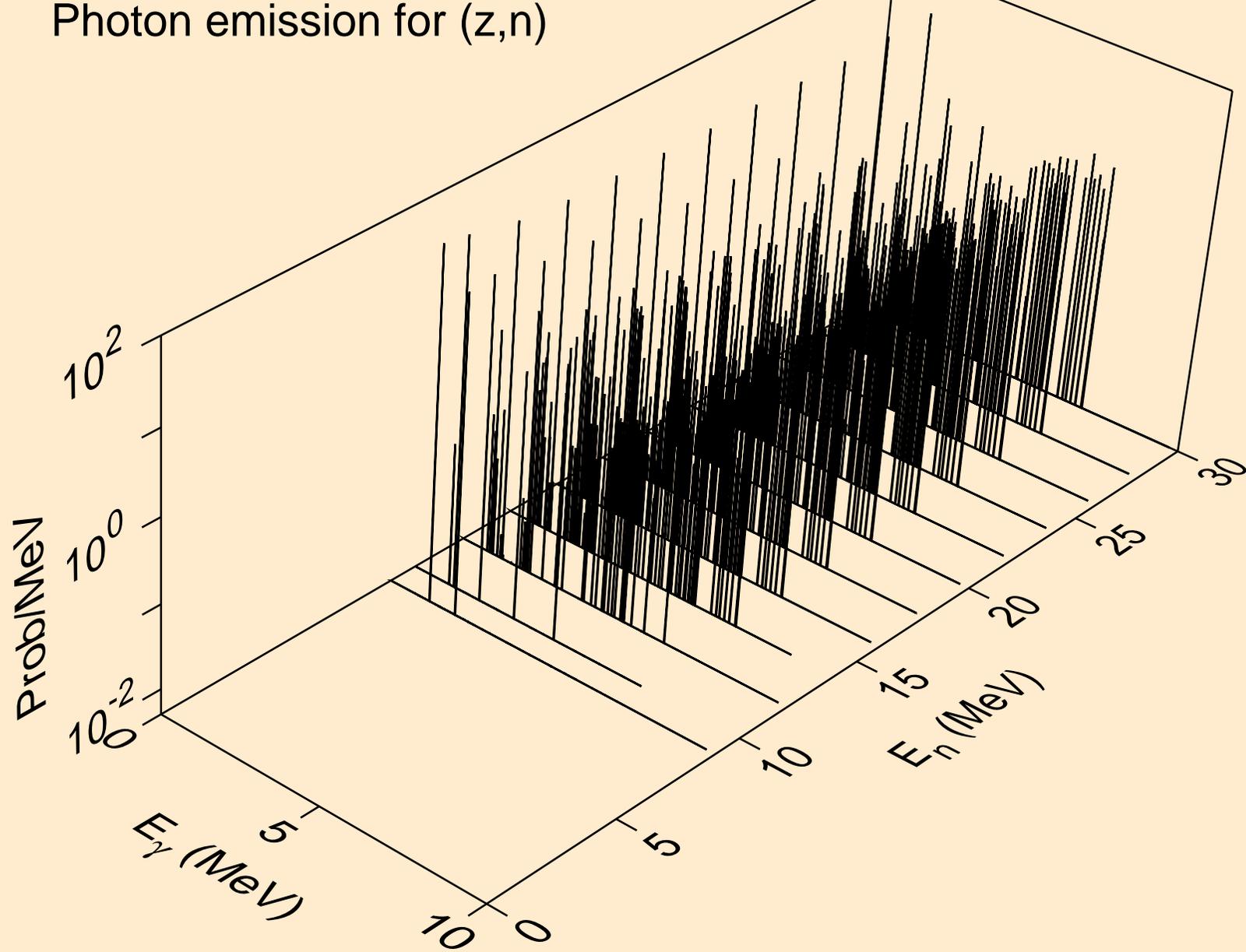Alpha emission for (a,3a)

NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
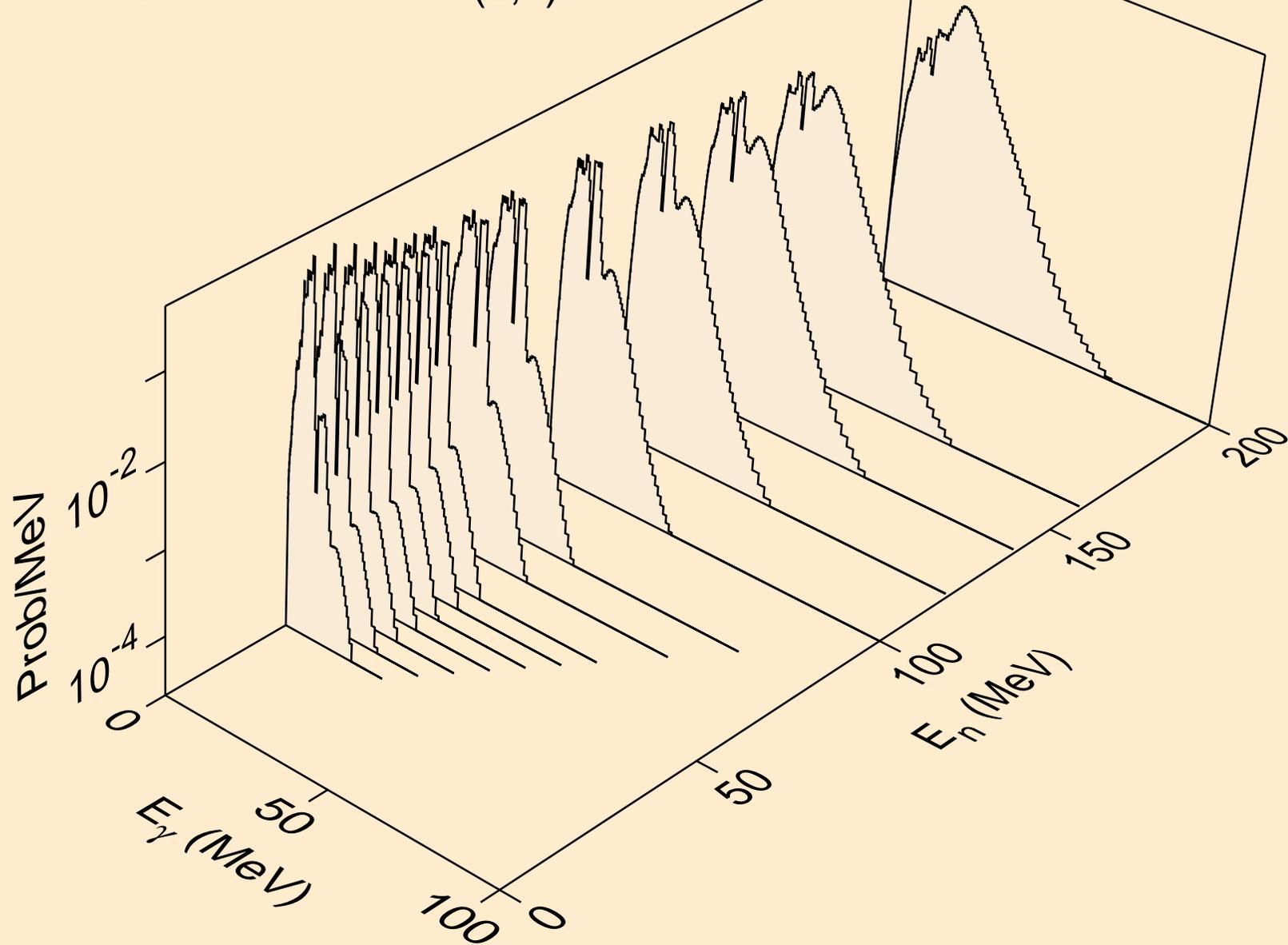Alpha emission for (a,pa)

NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
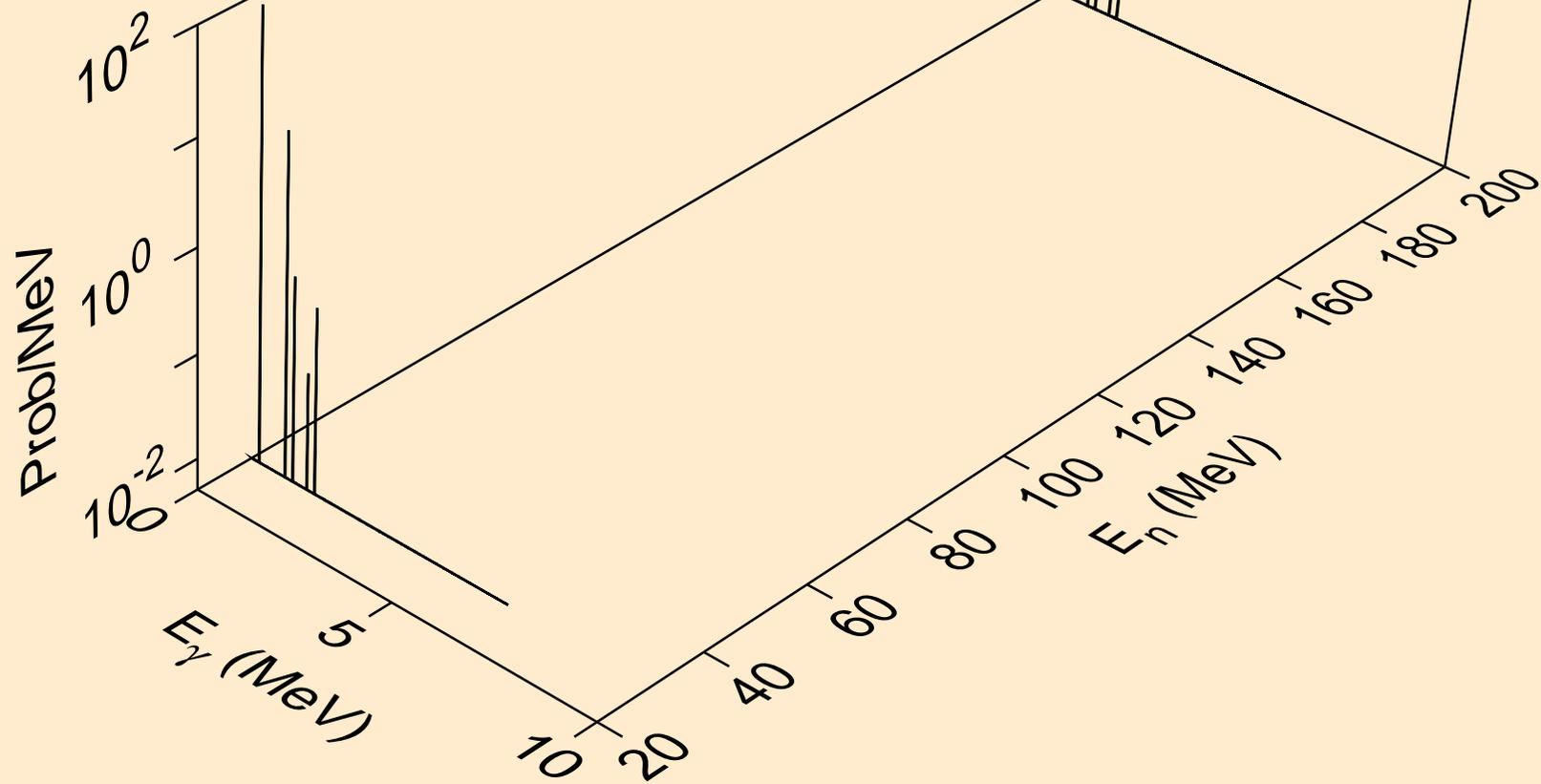Alpha emission for (a,da)

NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
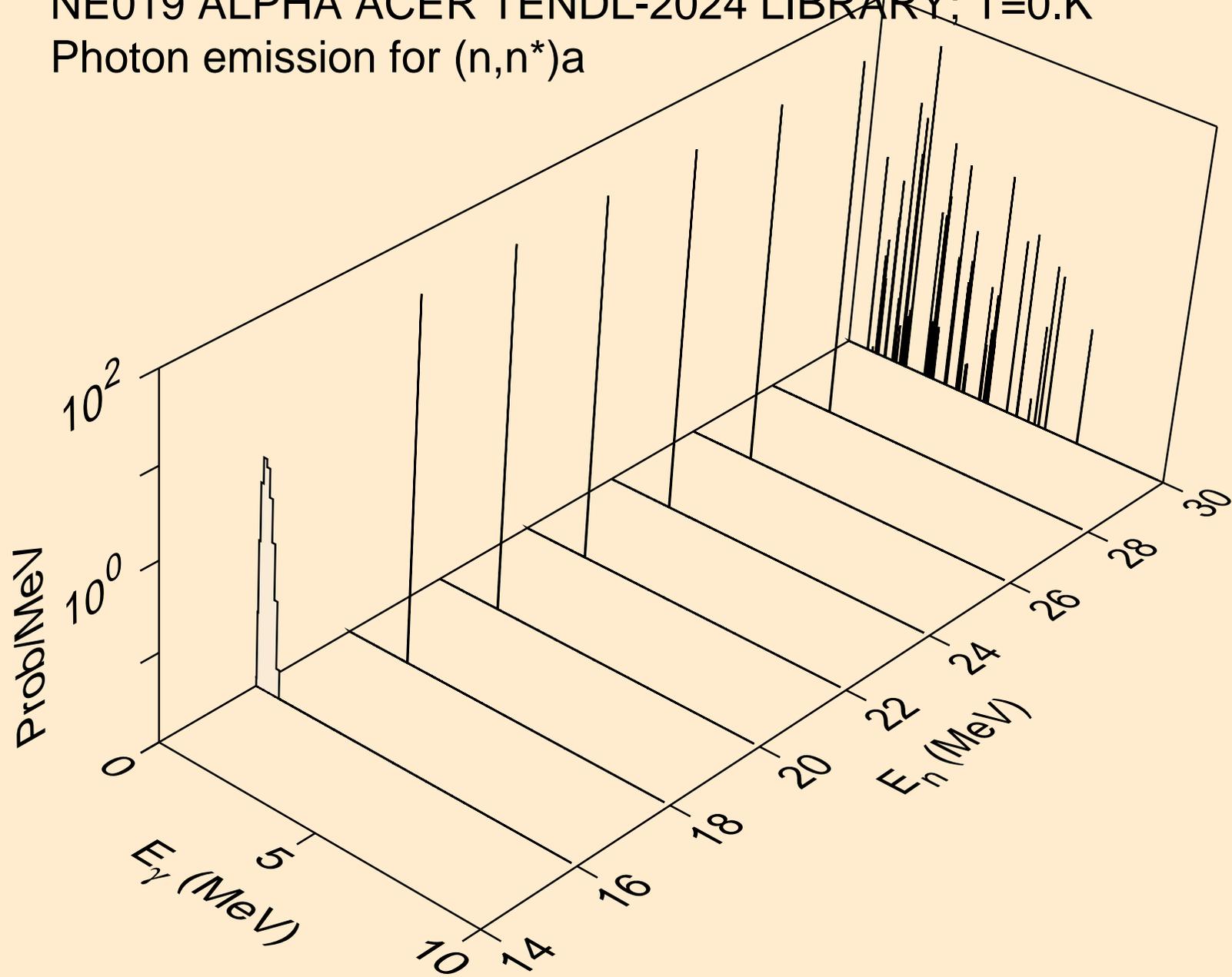Photon emission for (z,n)

NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
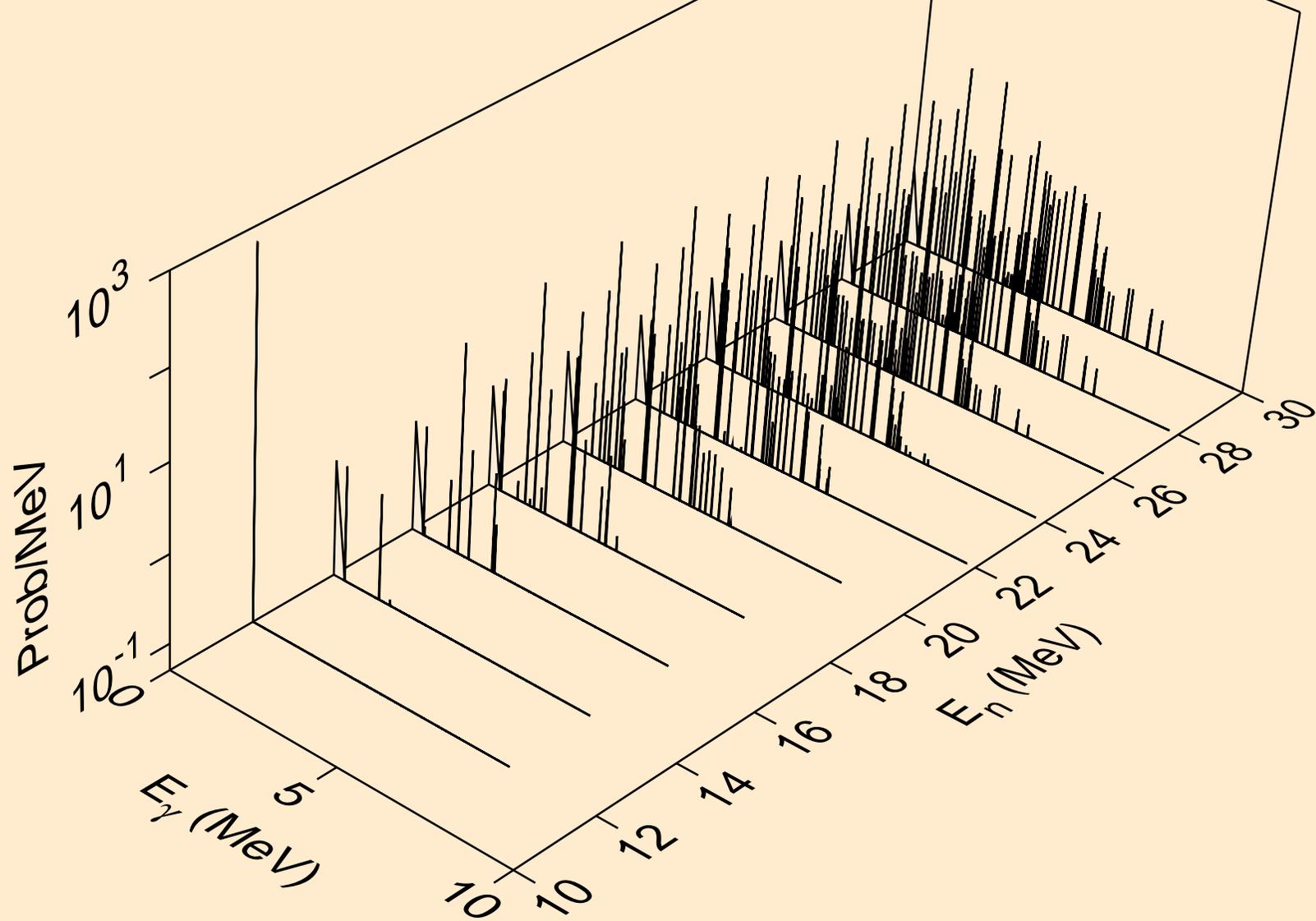Photon emission for (z,x)

NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
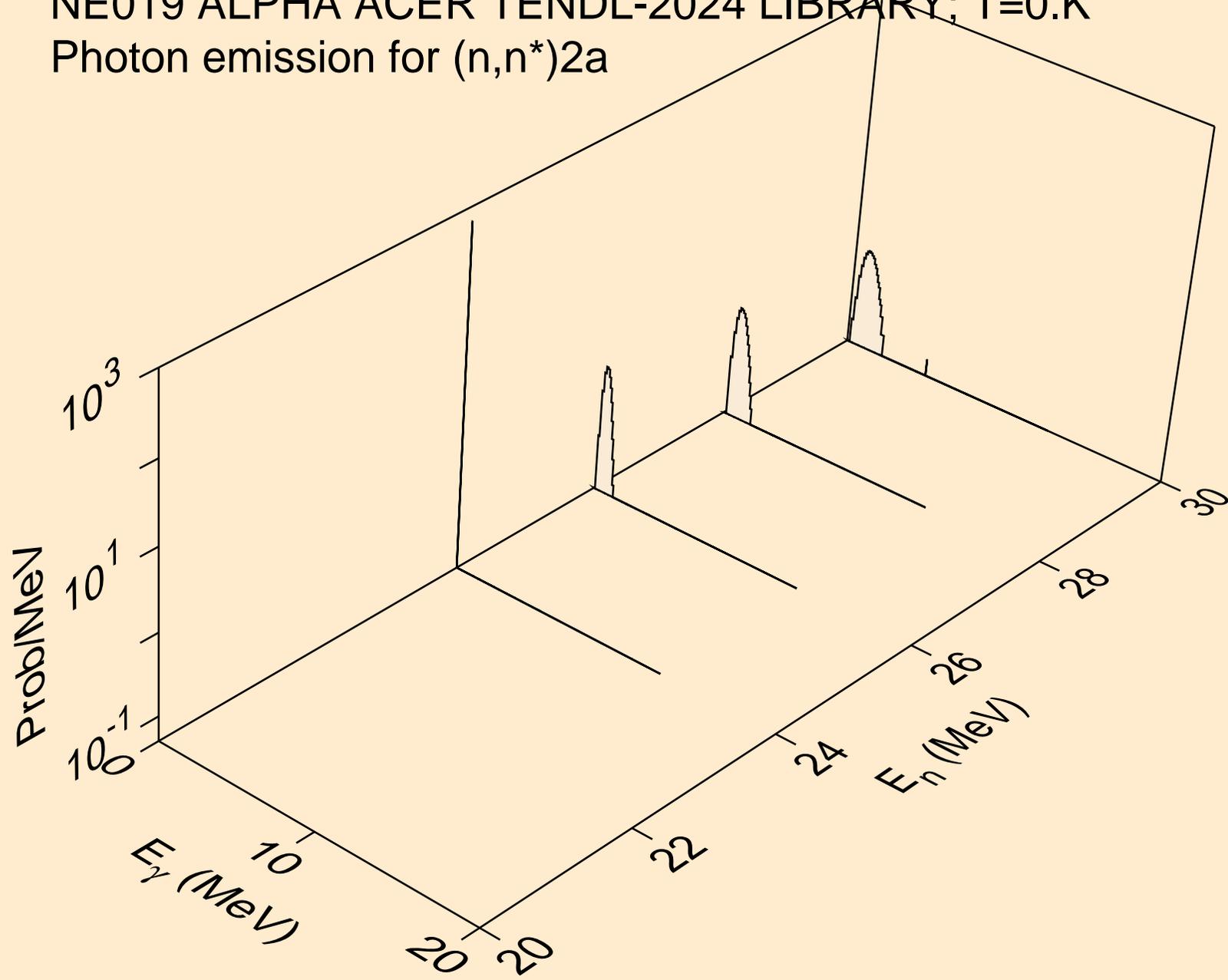Photon emission for (n,2n)

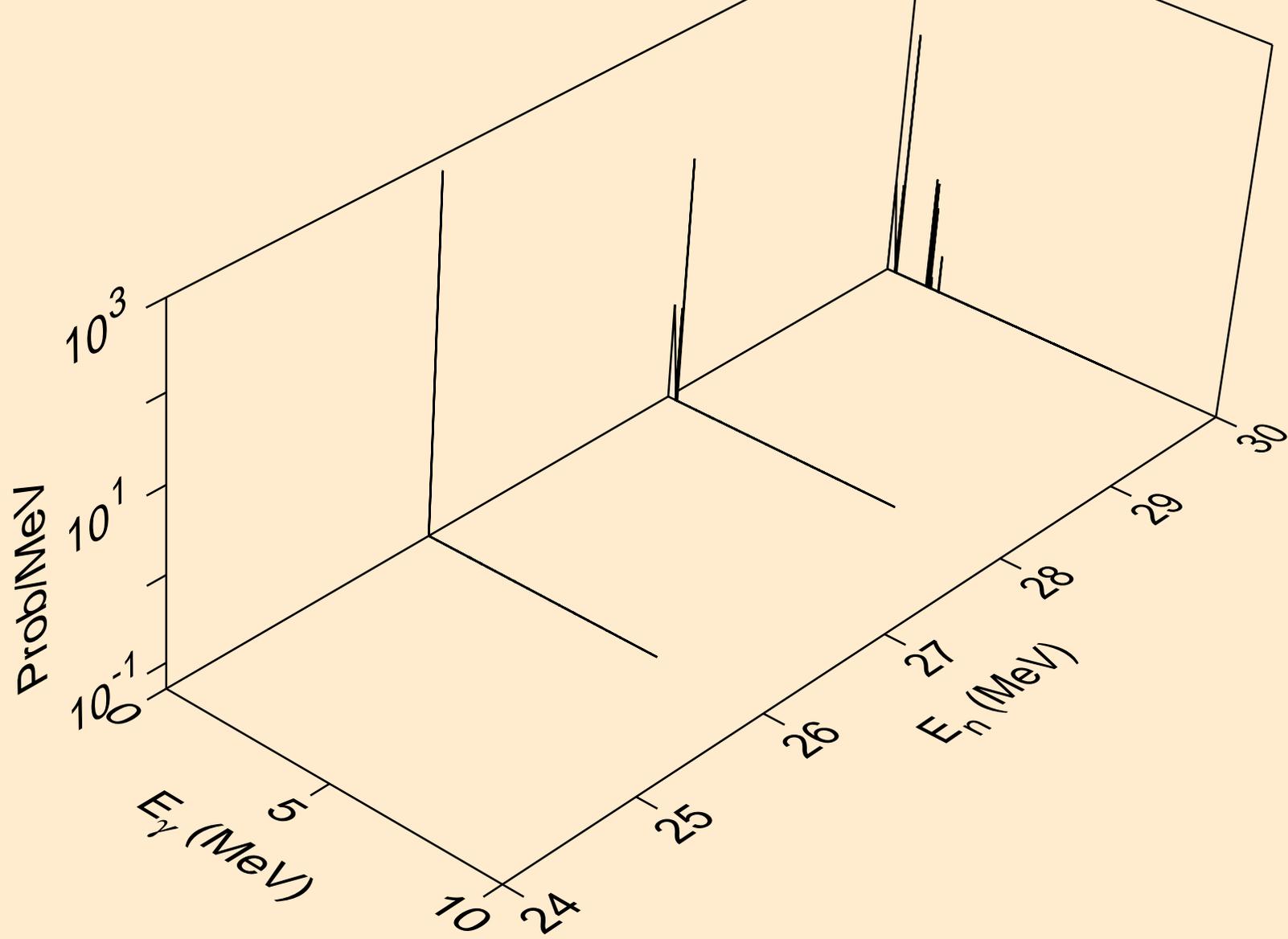NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,n*)a

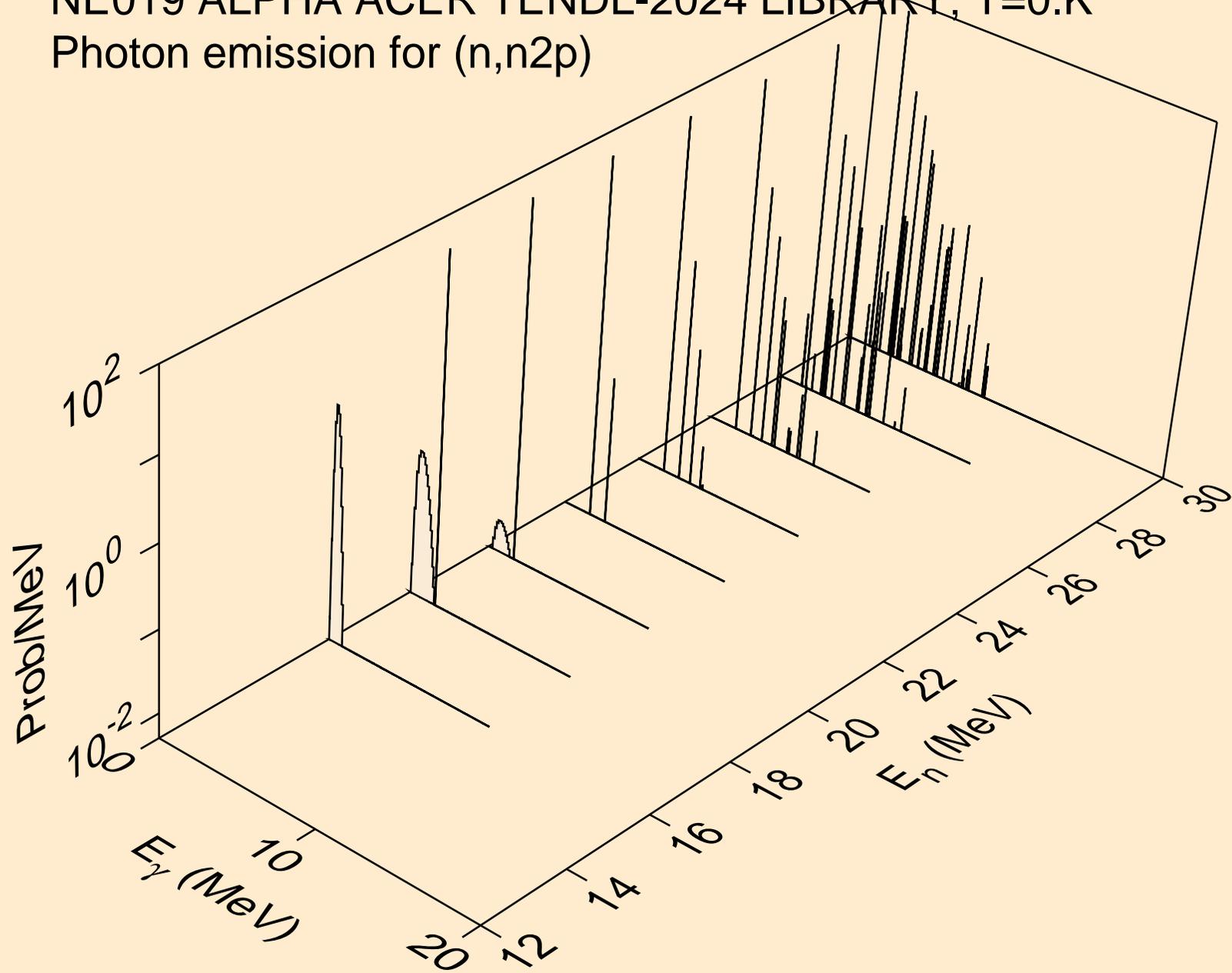NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,n*)p

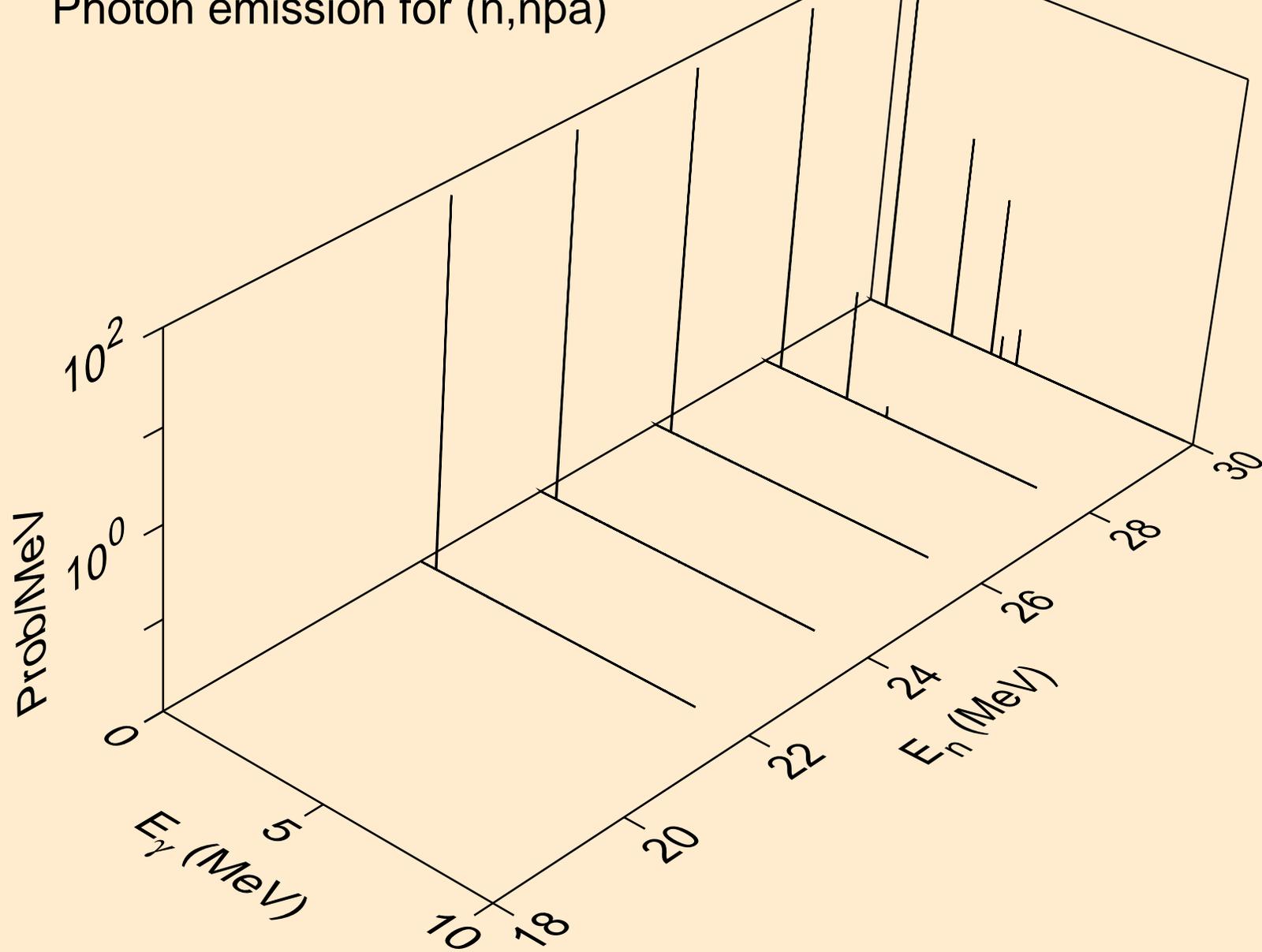NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,n*)2a

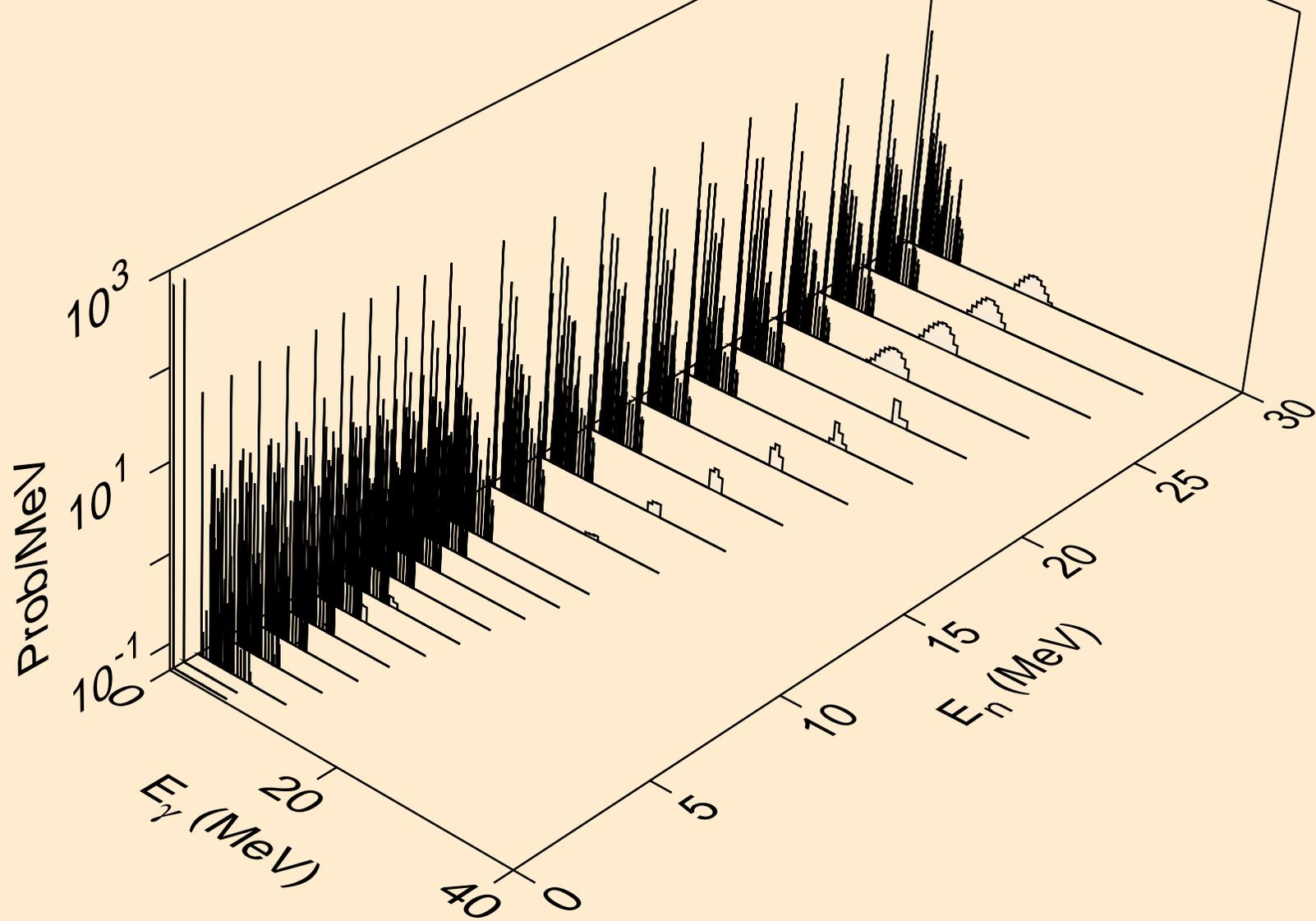NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,n*)he3

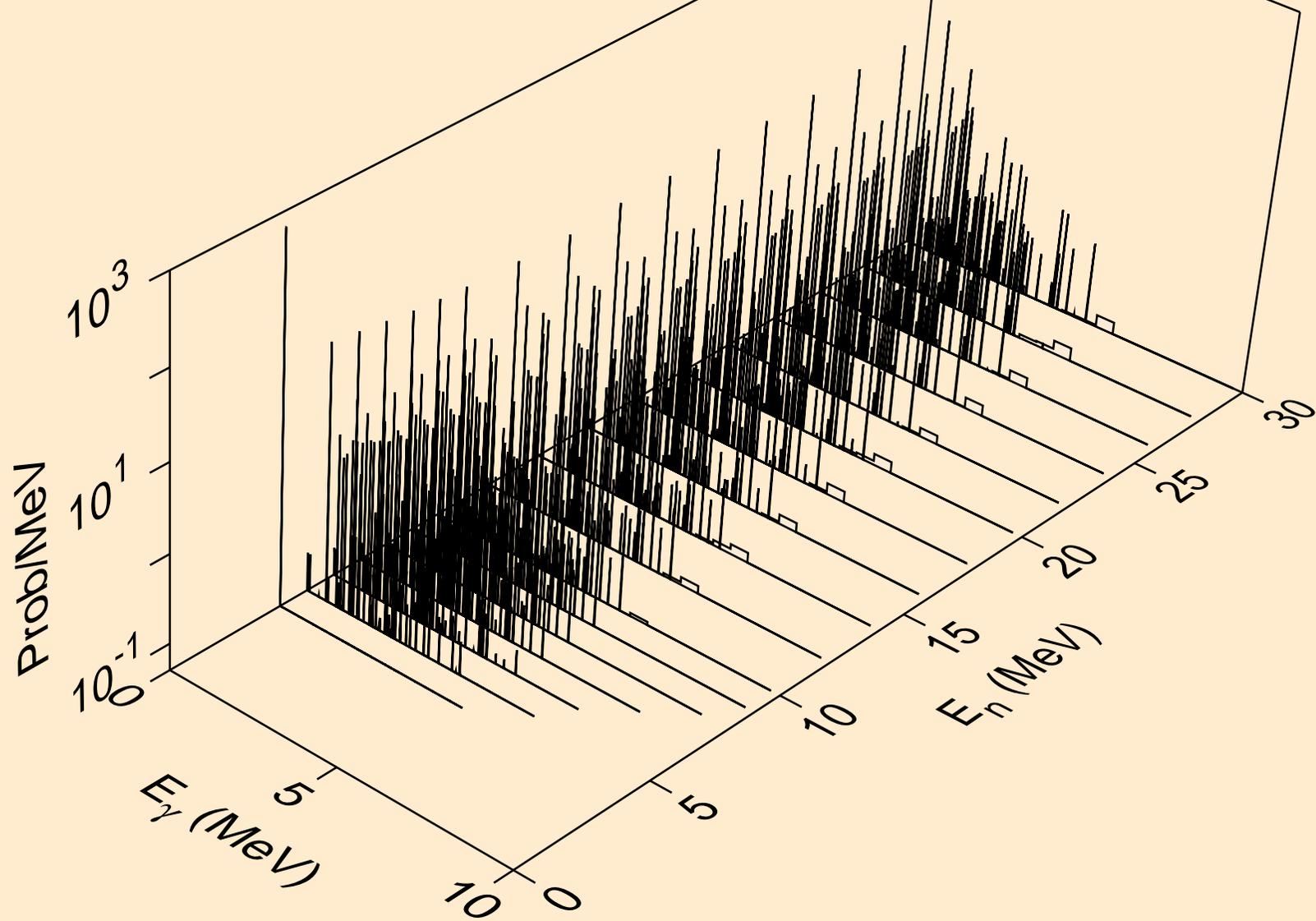NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,n2p)

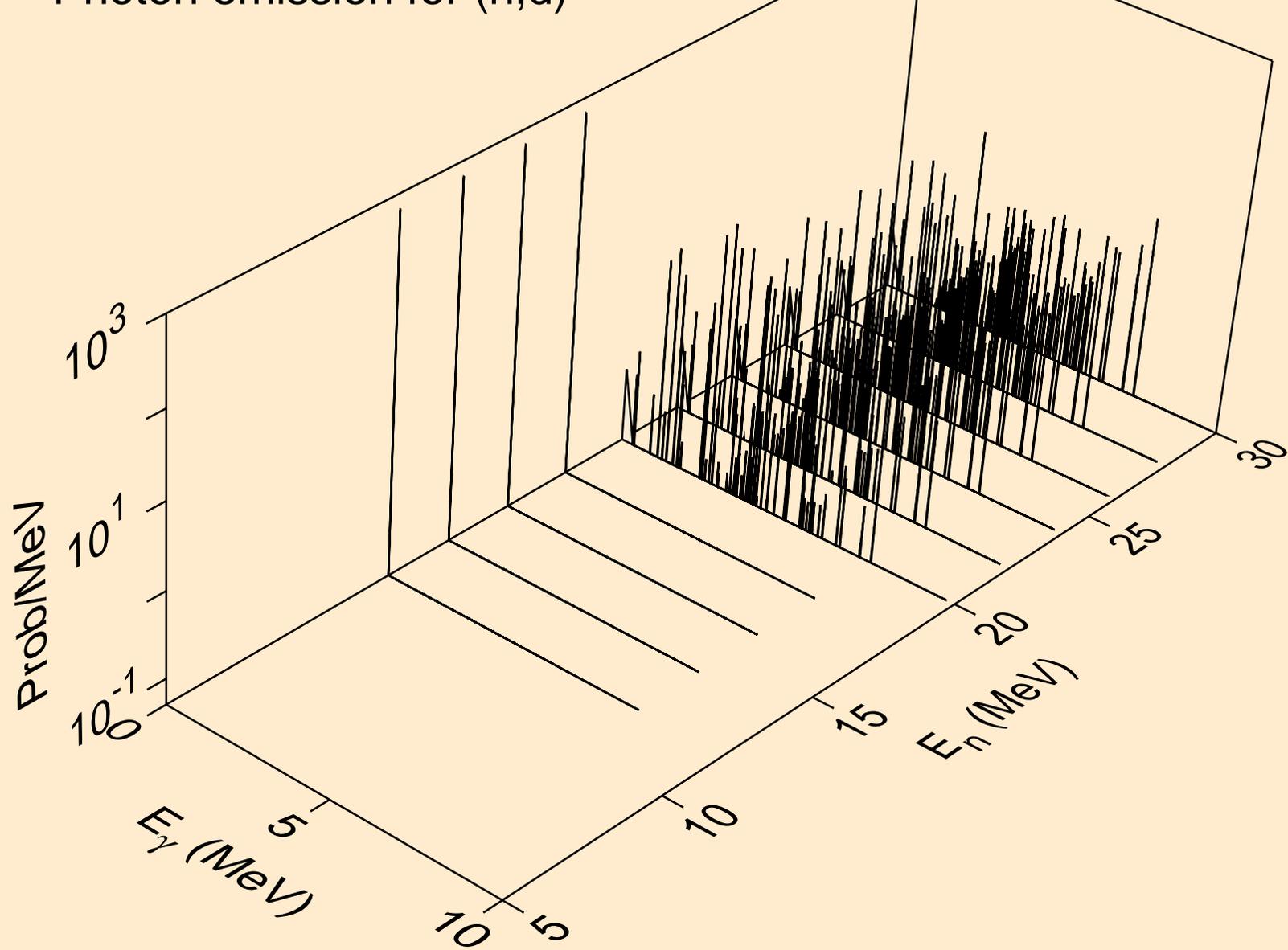NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,npa)

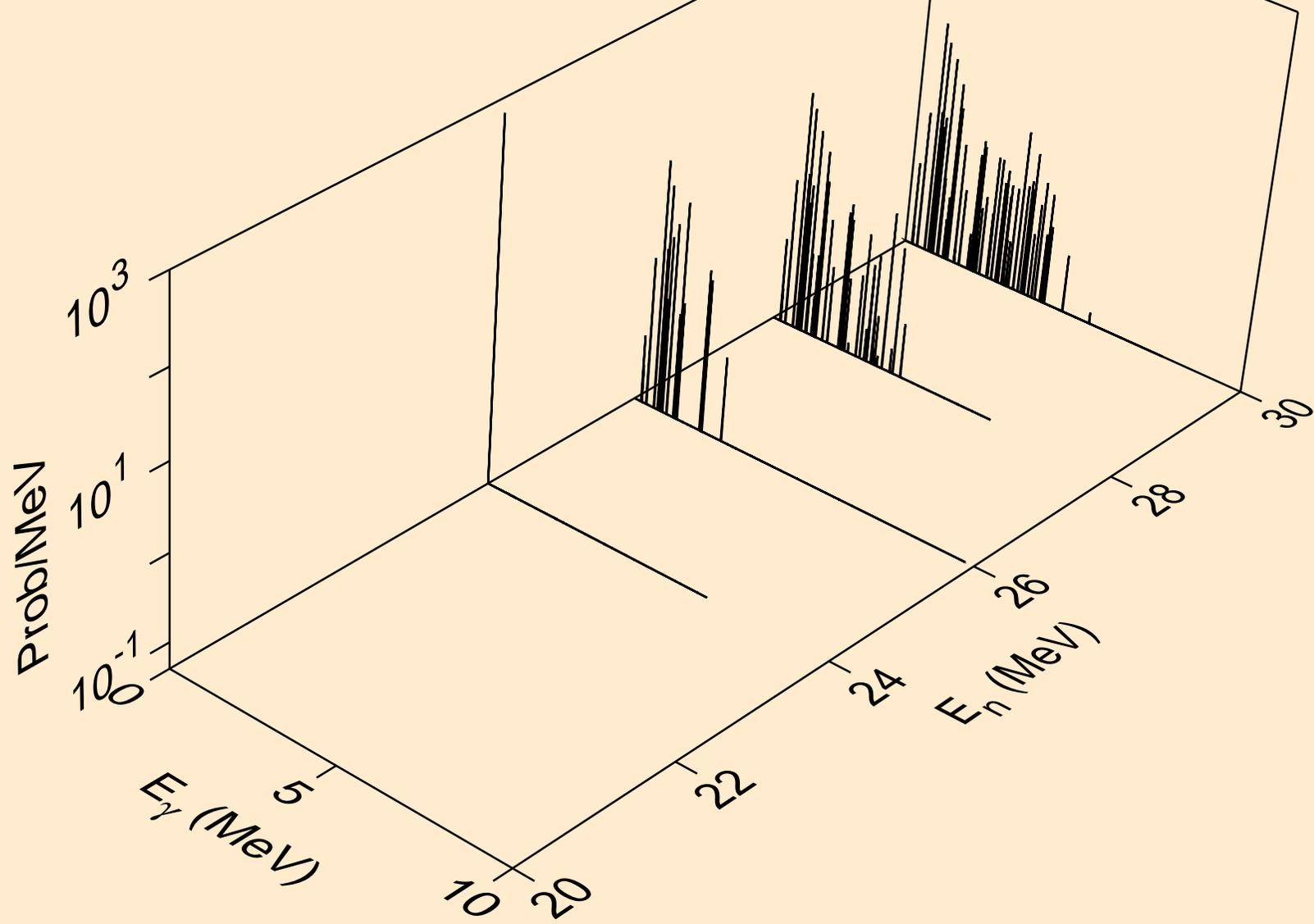NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,gma)

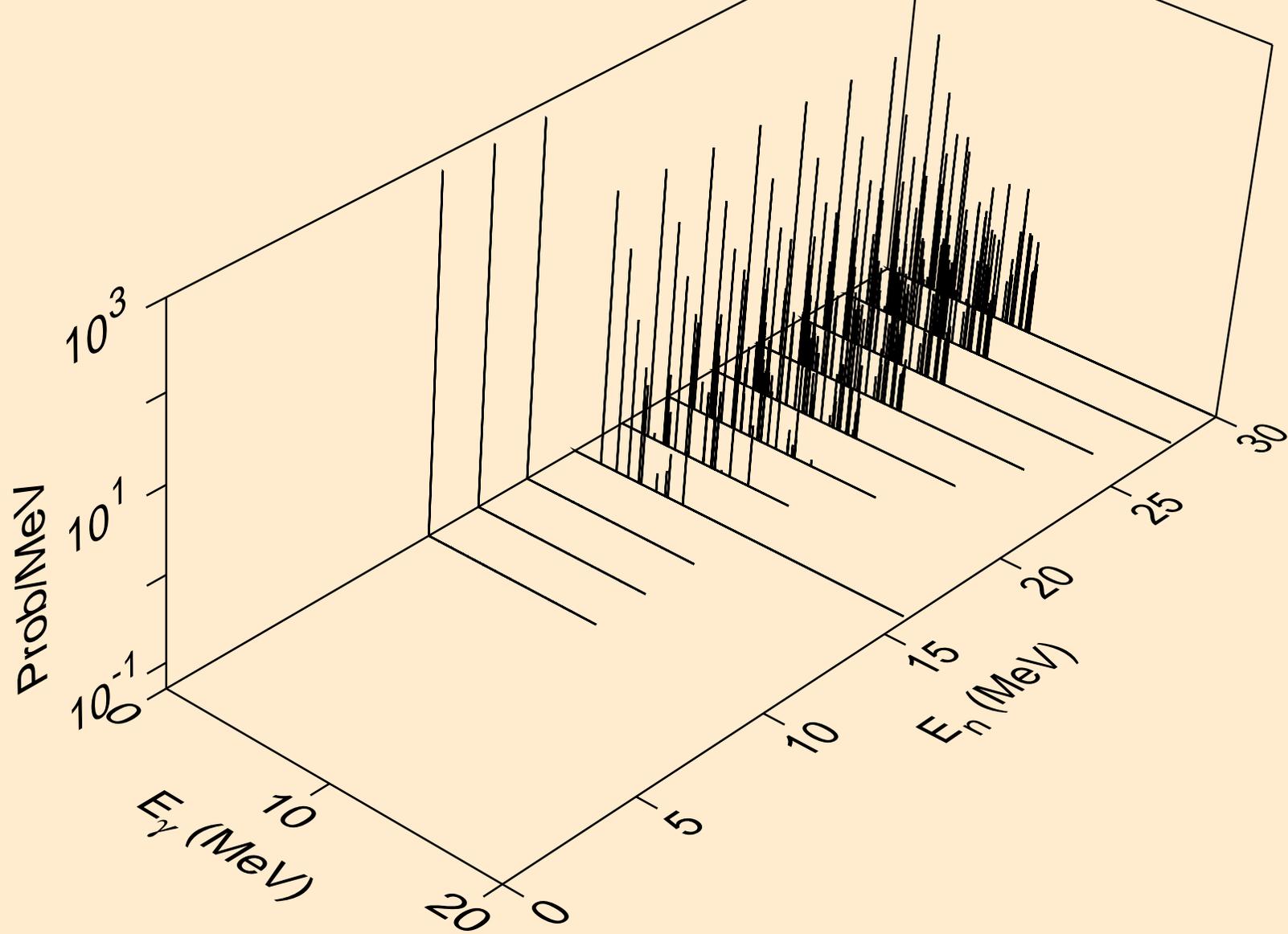NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,p)

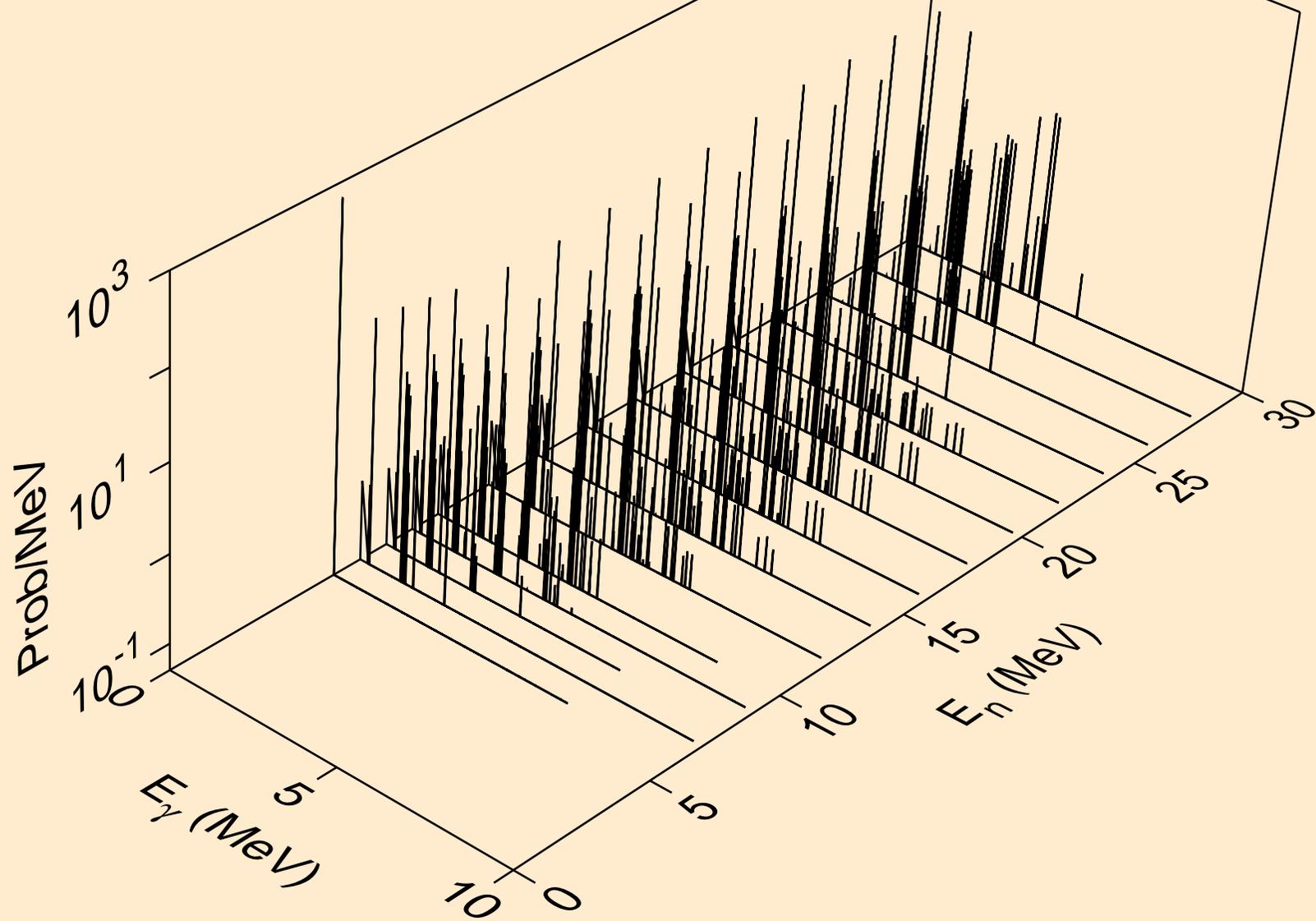NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,d)

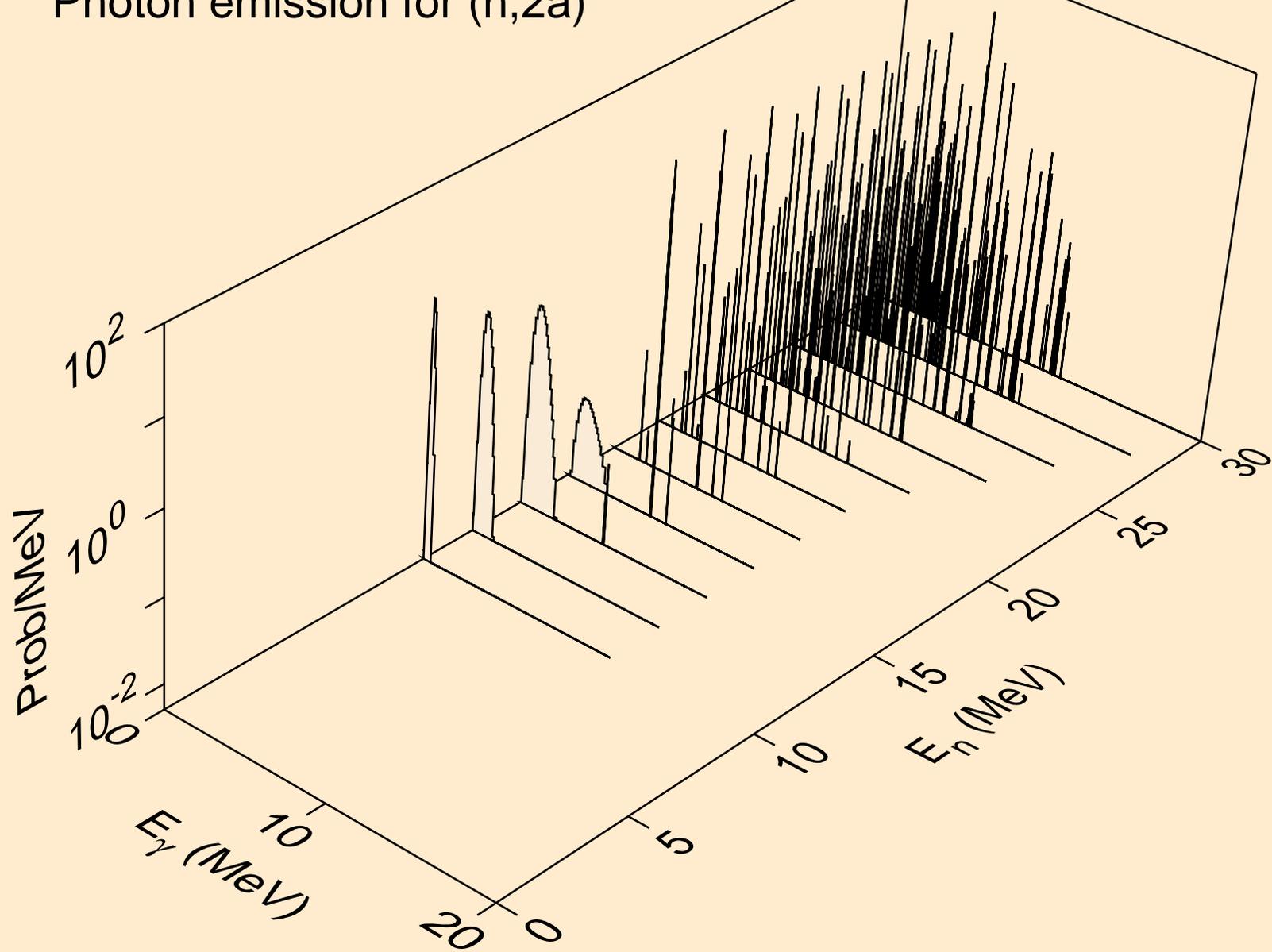NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,t)

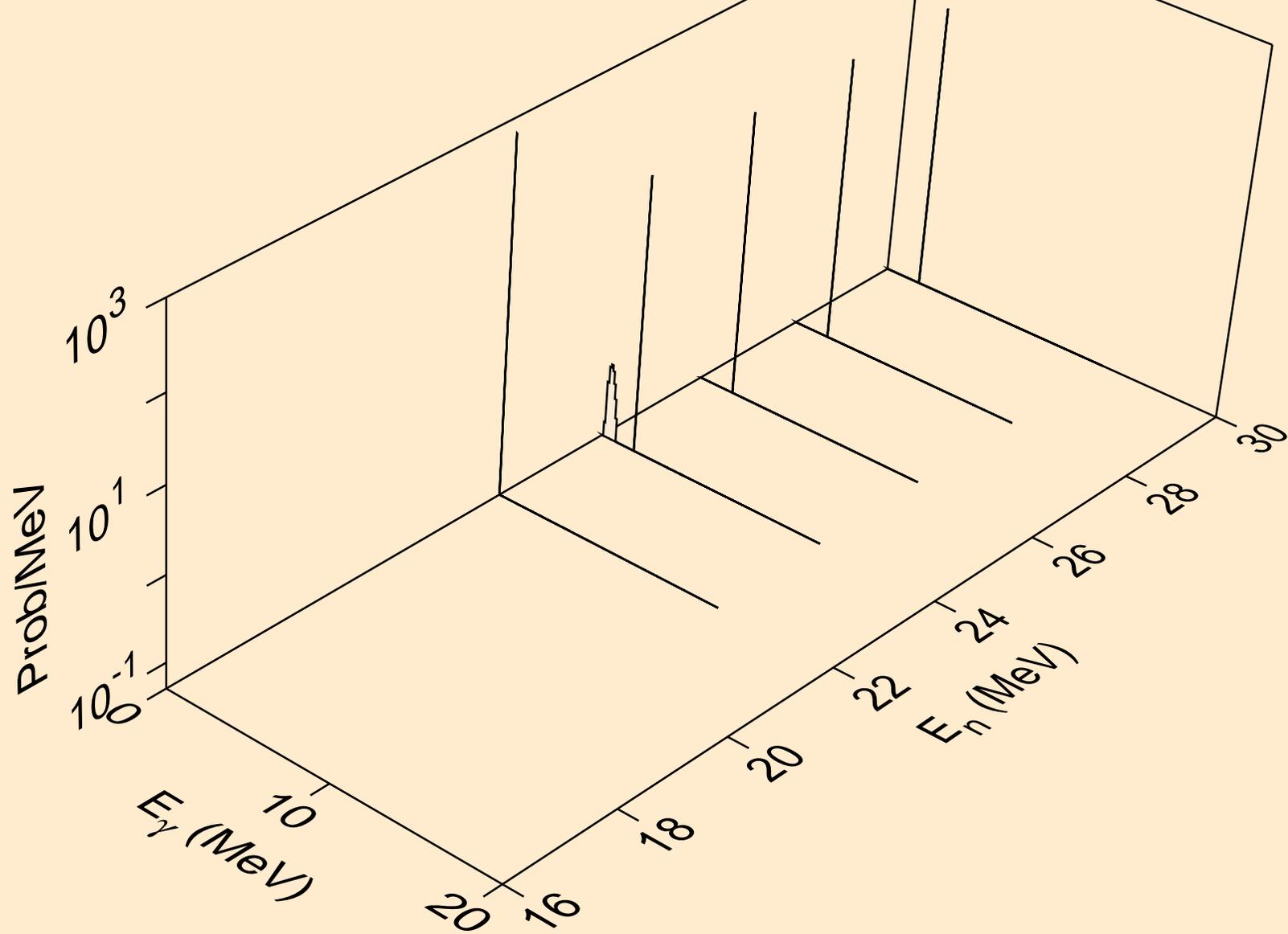NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,he3)

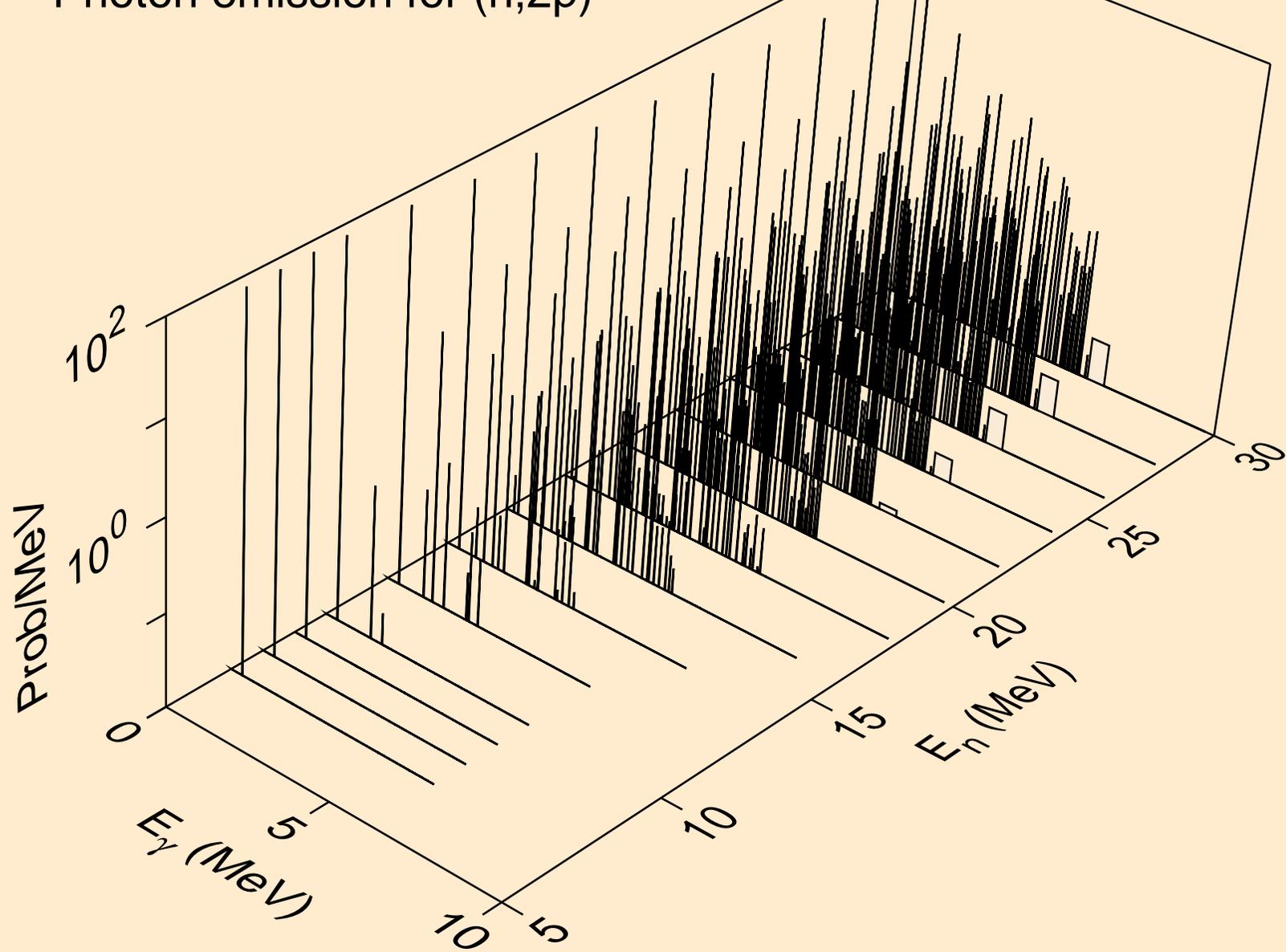NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for inelastic

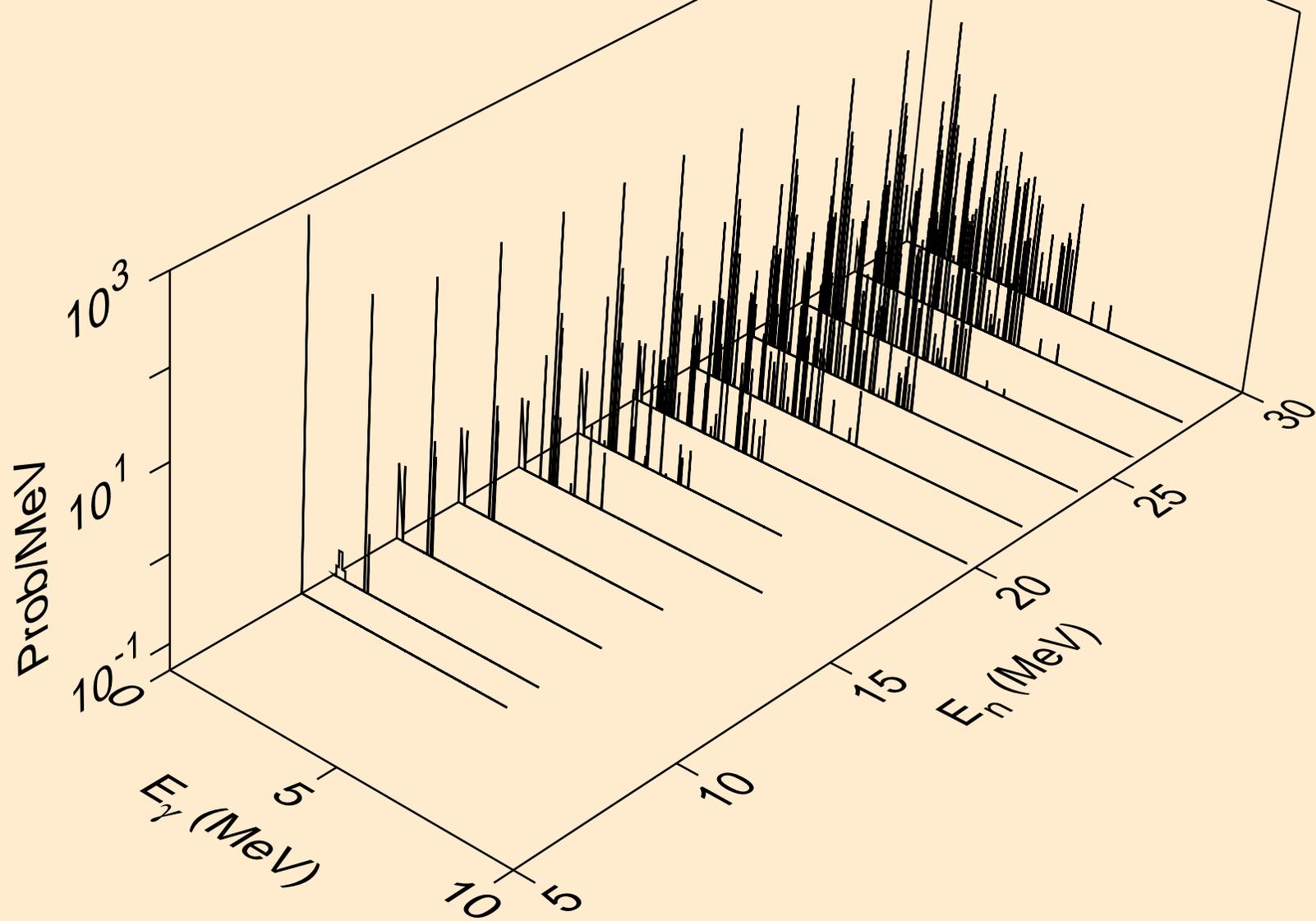NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,2a)

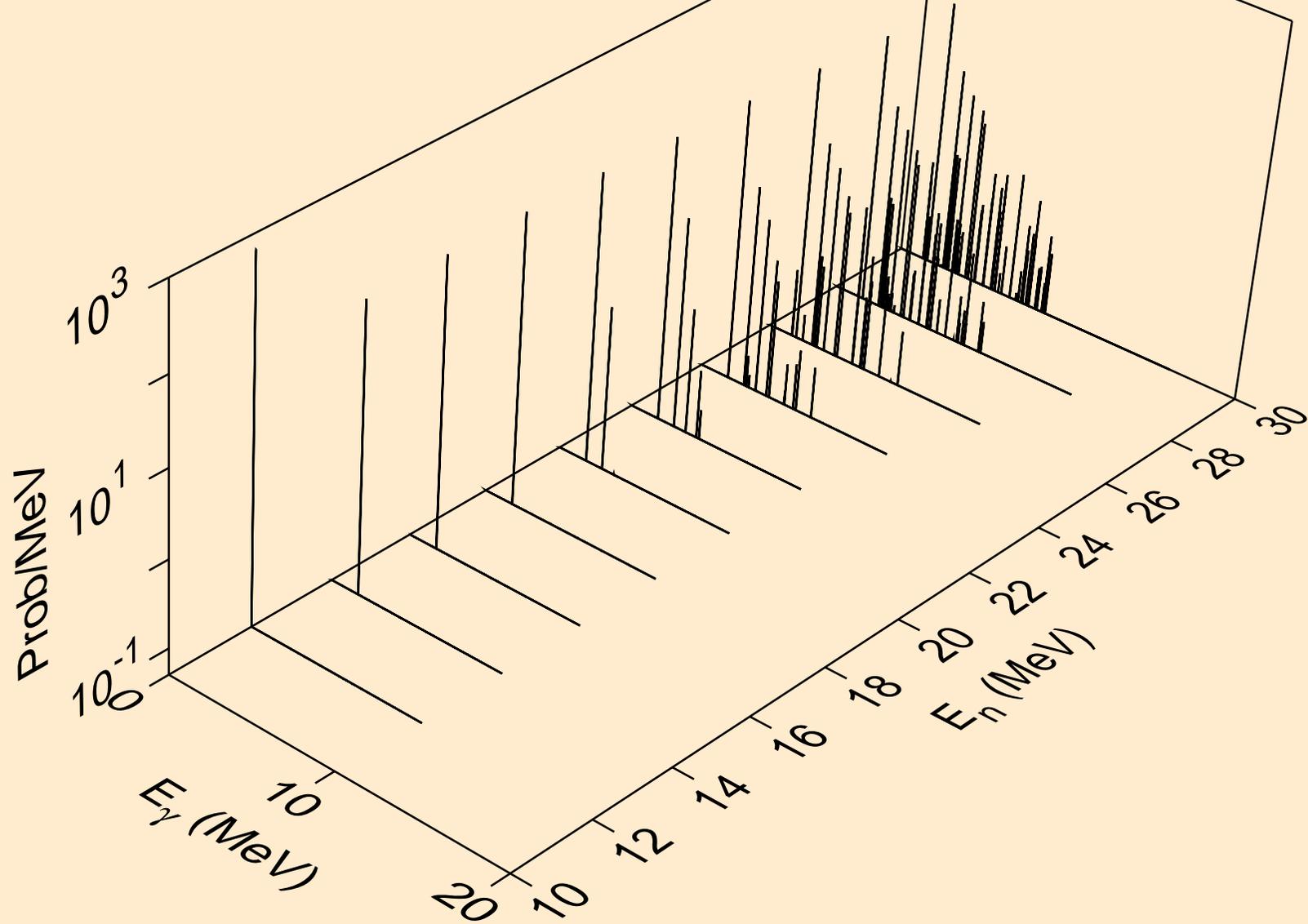NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,3a)

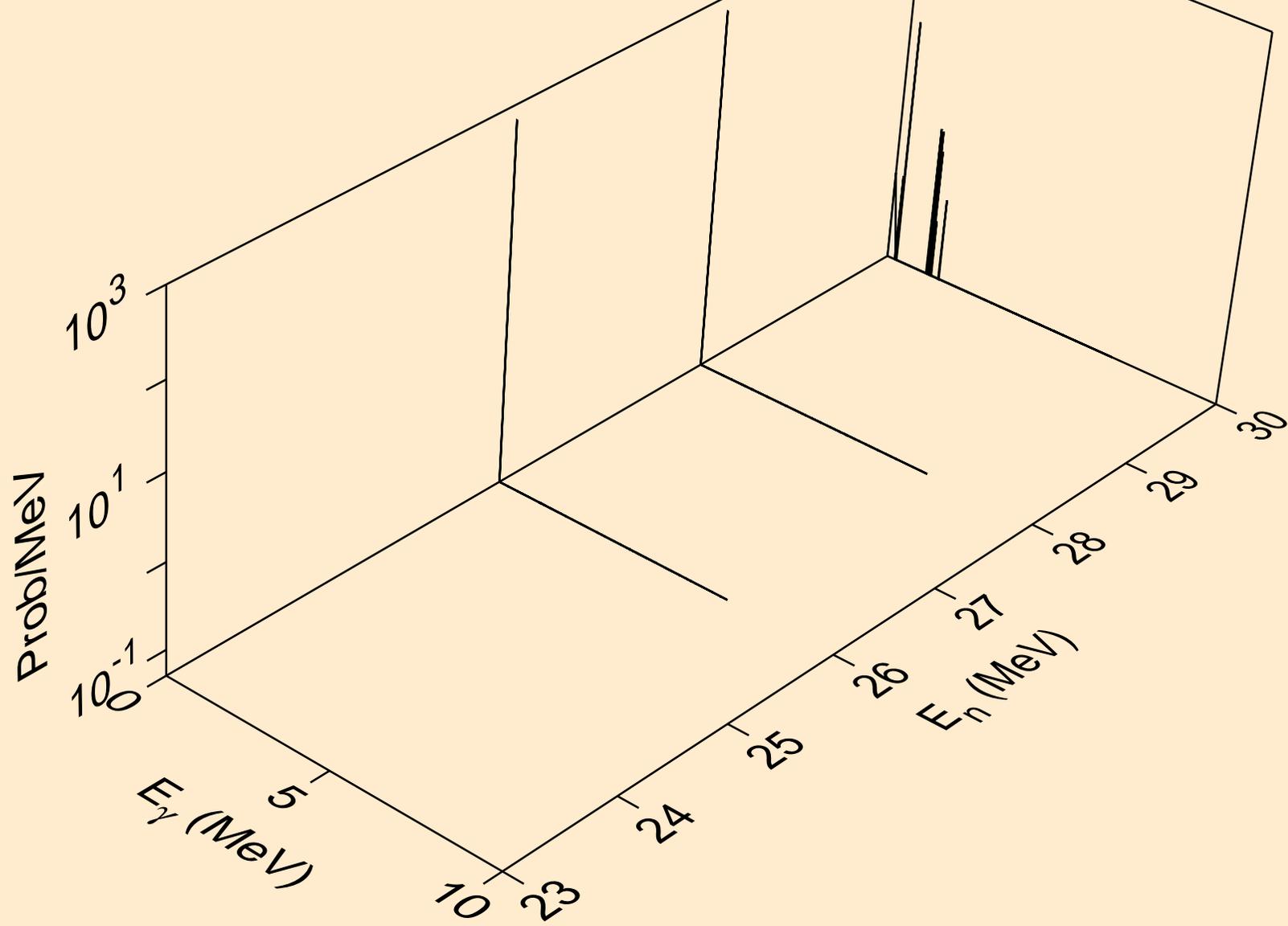NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,2p)

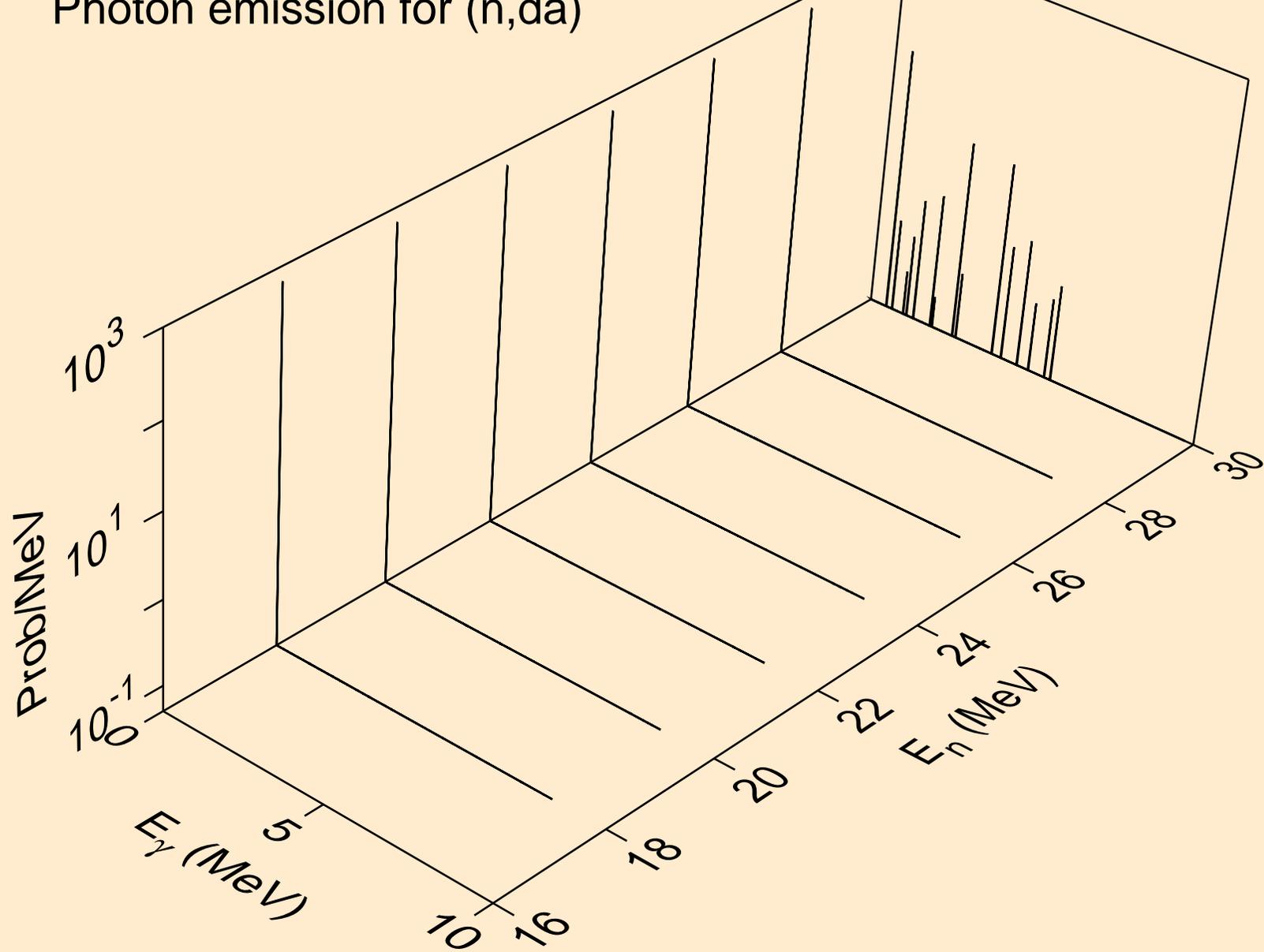NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,pa)

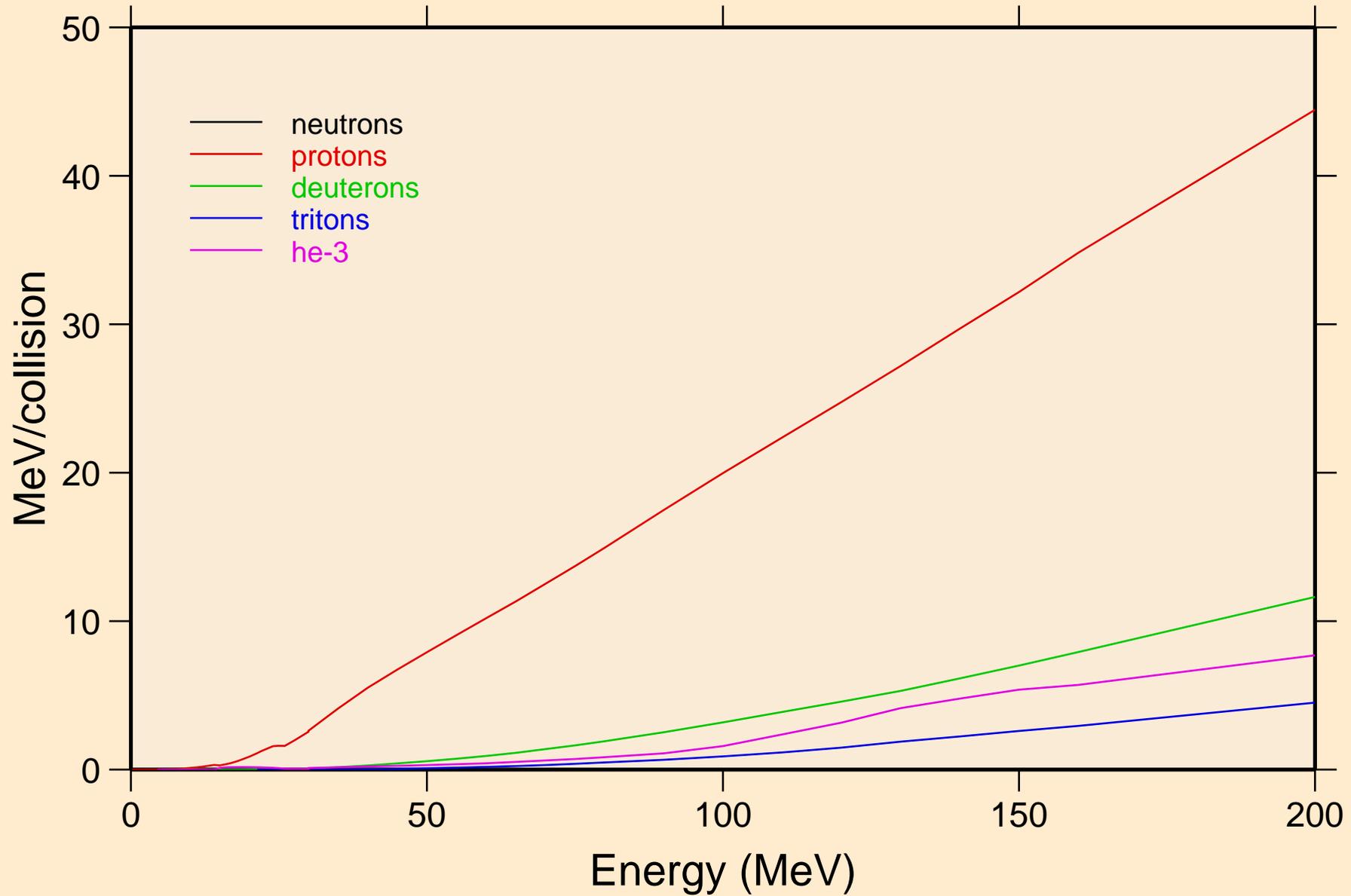NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,pd)

NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
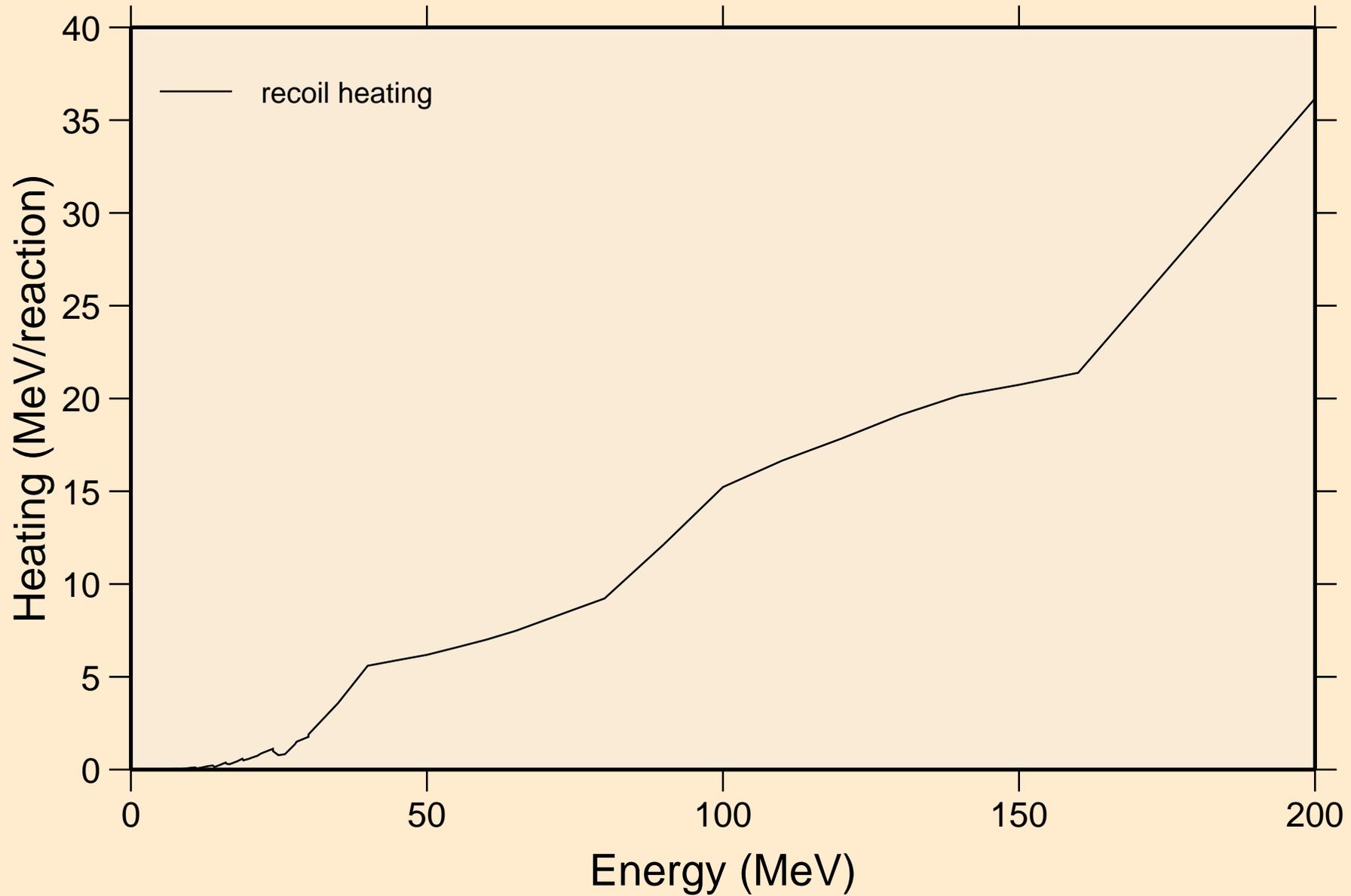Photon emission for (n,pt)

NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
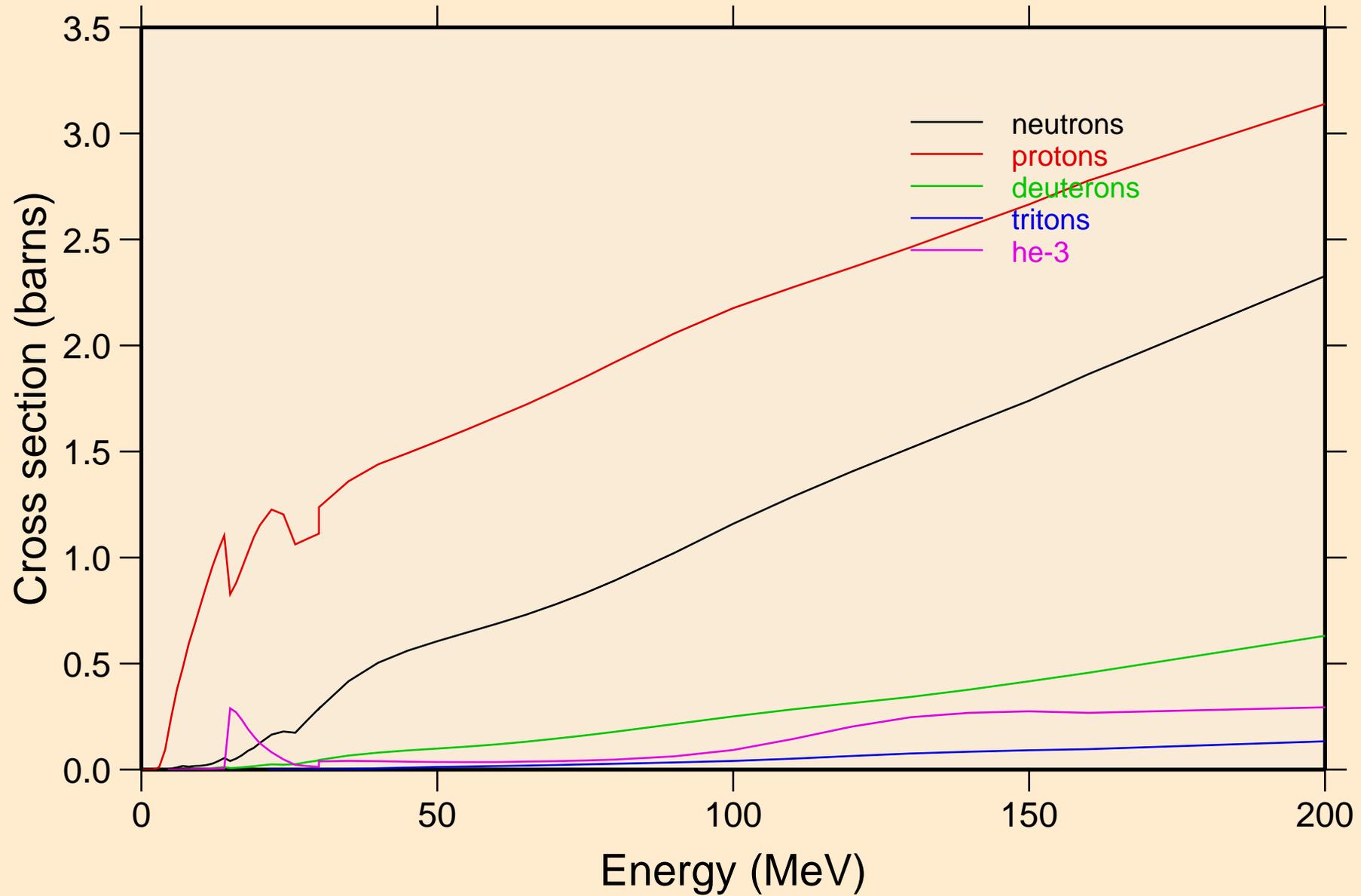Photon emission for (n,da)

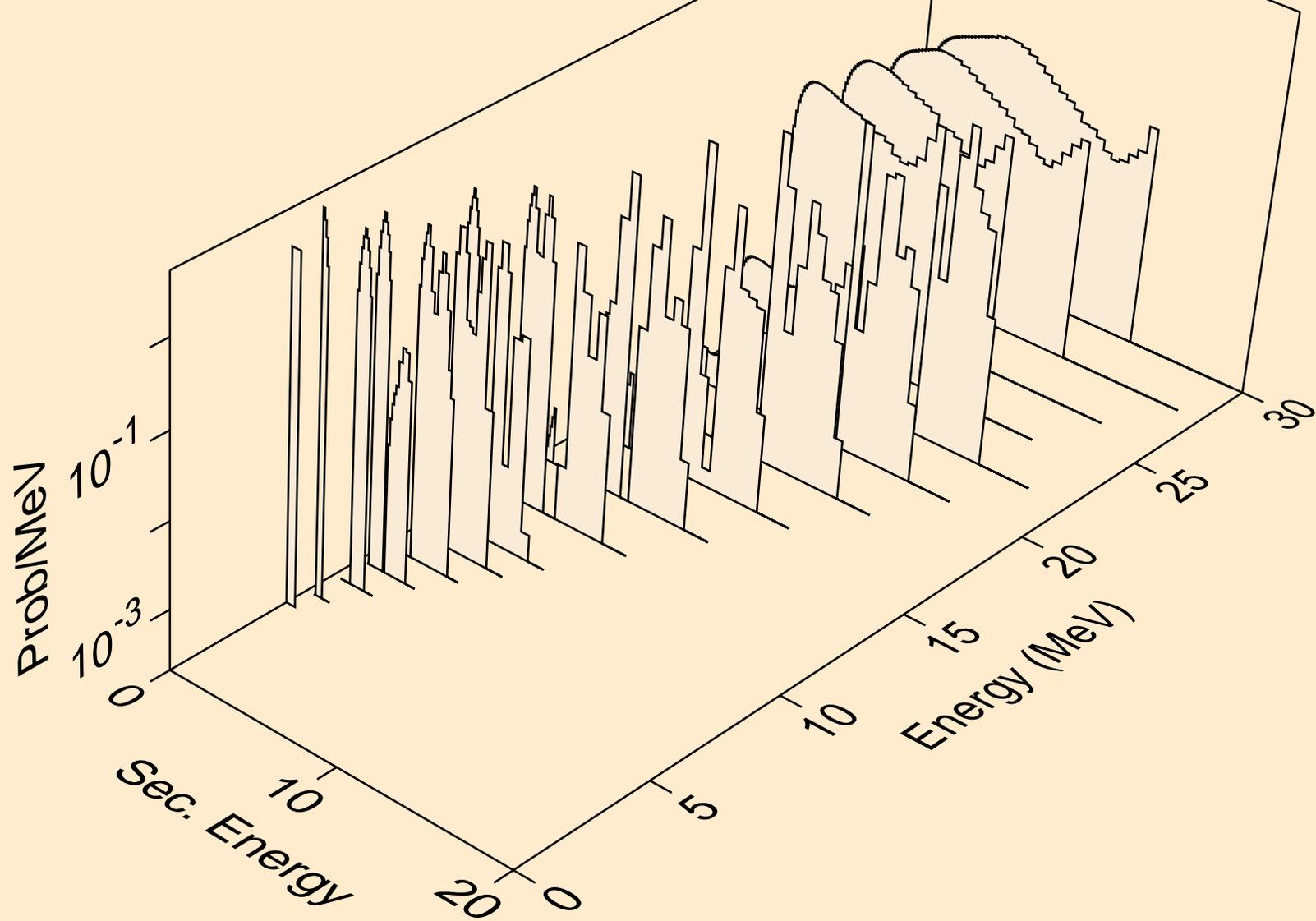NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Particle heating contributions

neutrons
protons
deuterons
tritons
he-3

MeV/collision

Energy (MeV)

NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
Recoil Heating

recoil heating

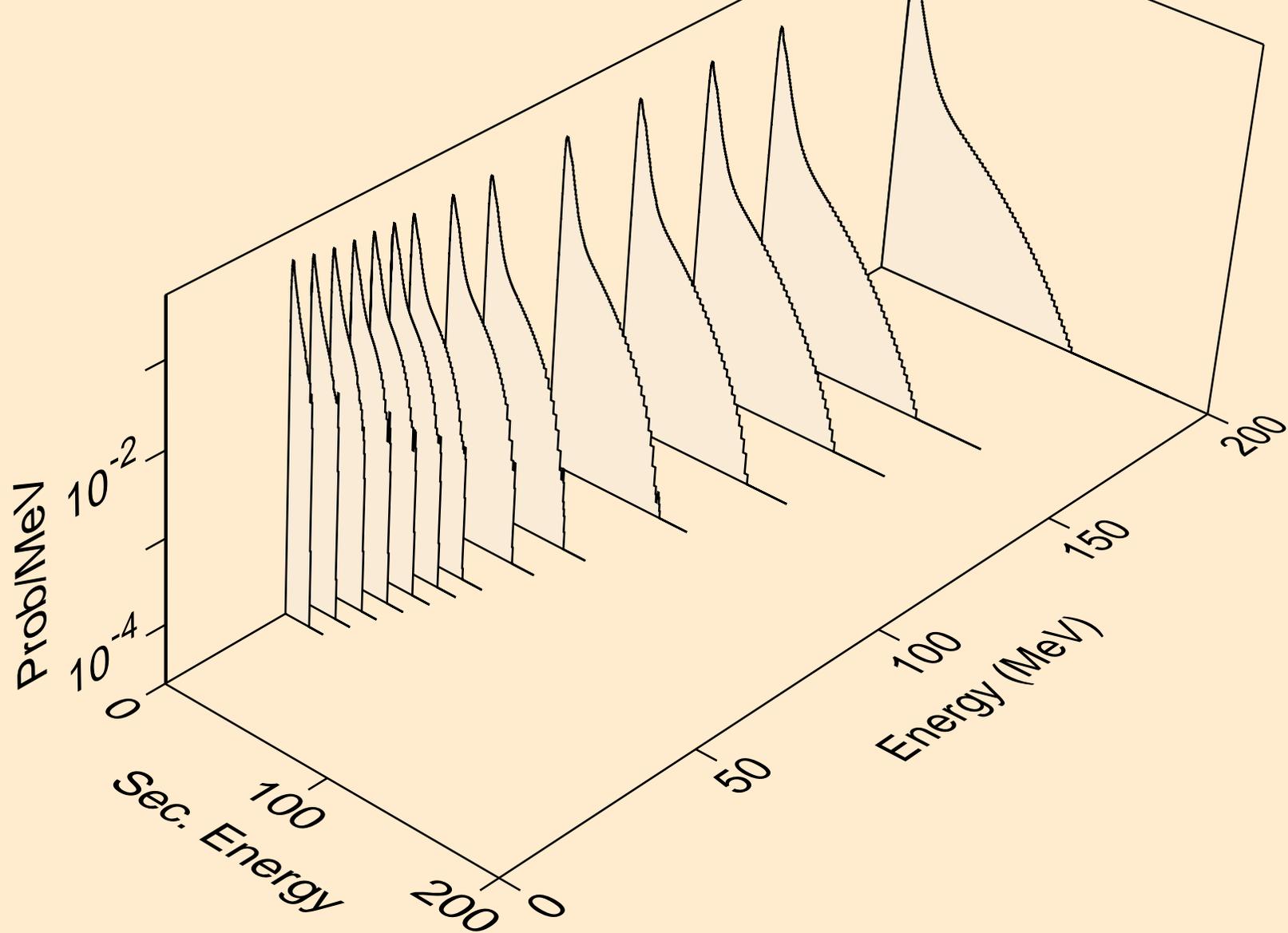Heating (MeV/reaction)

Energy (MeV)

NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
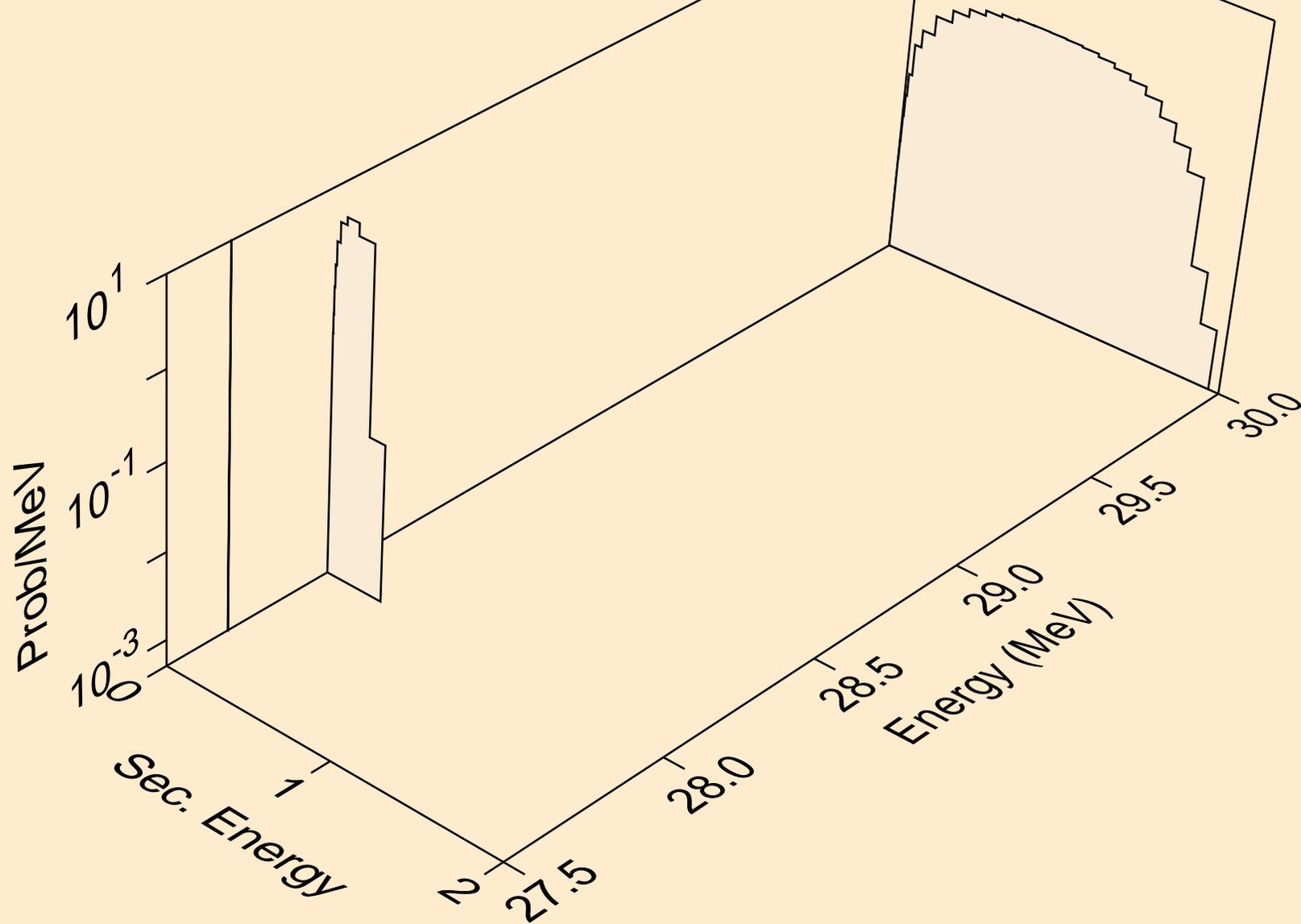Particle production cross sections

NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
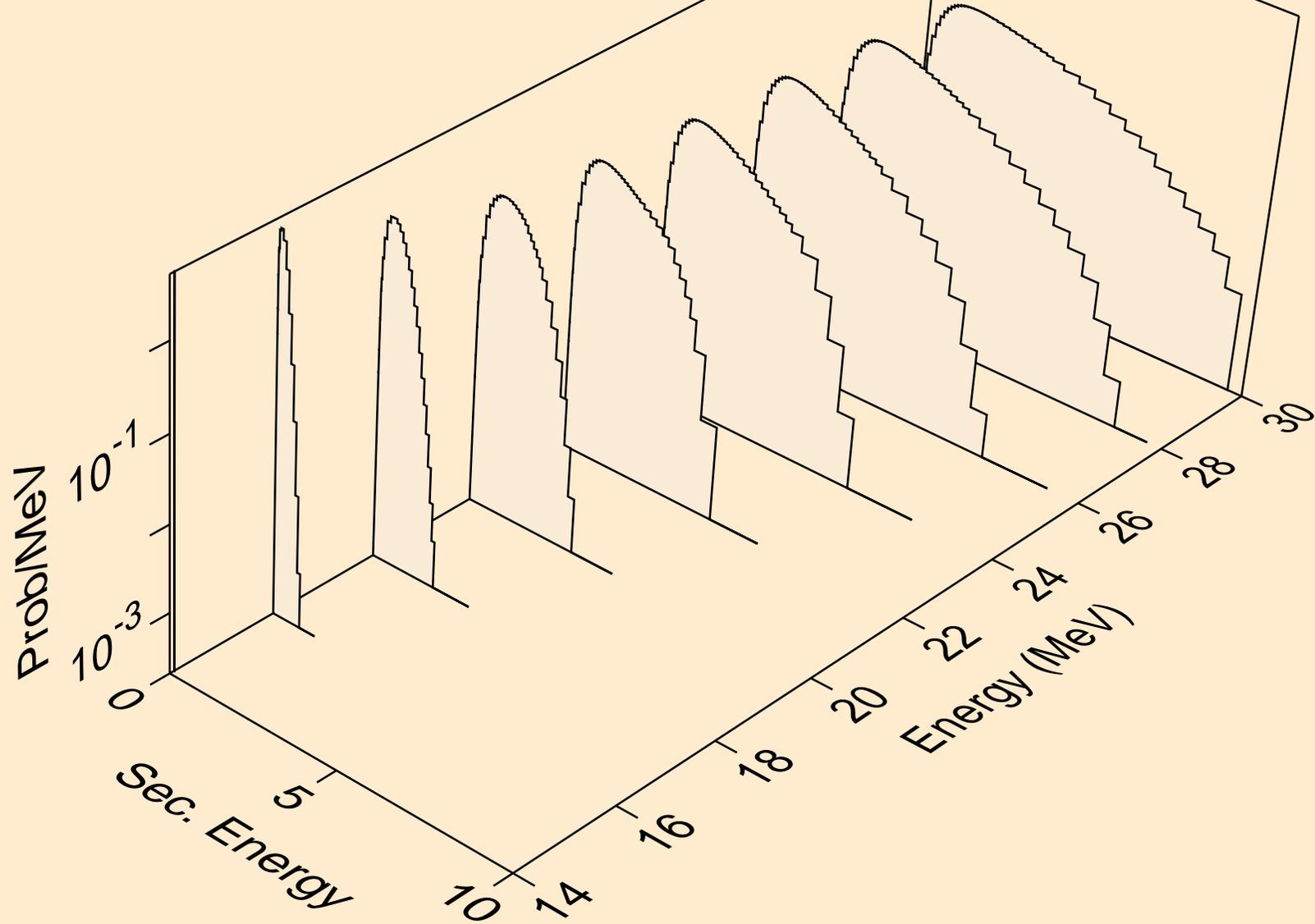neutrons from (a,n)

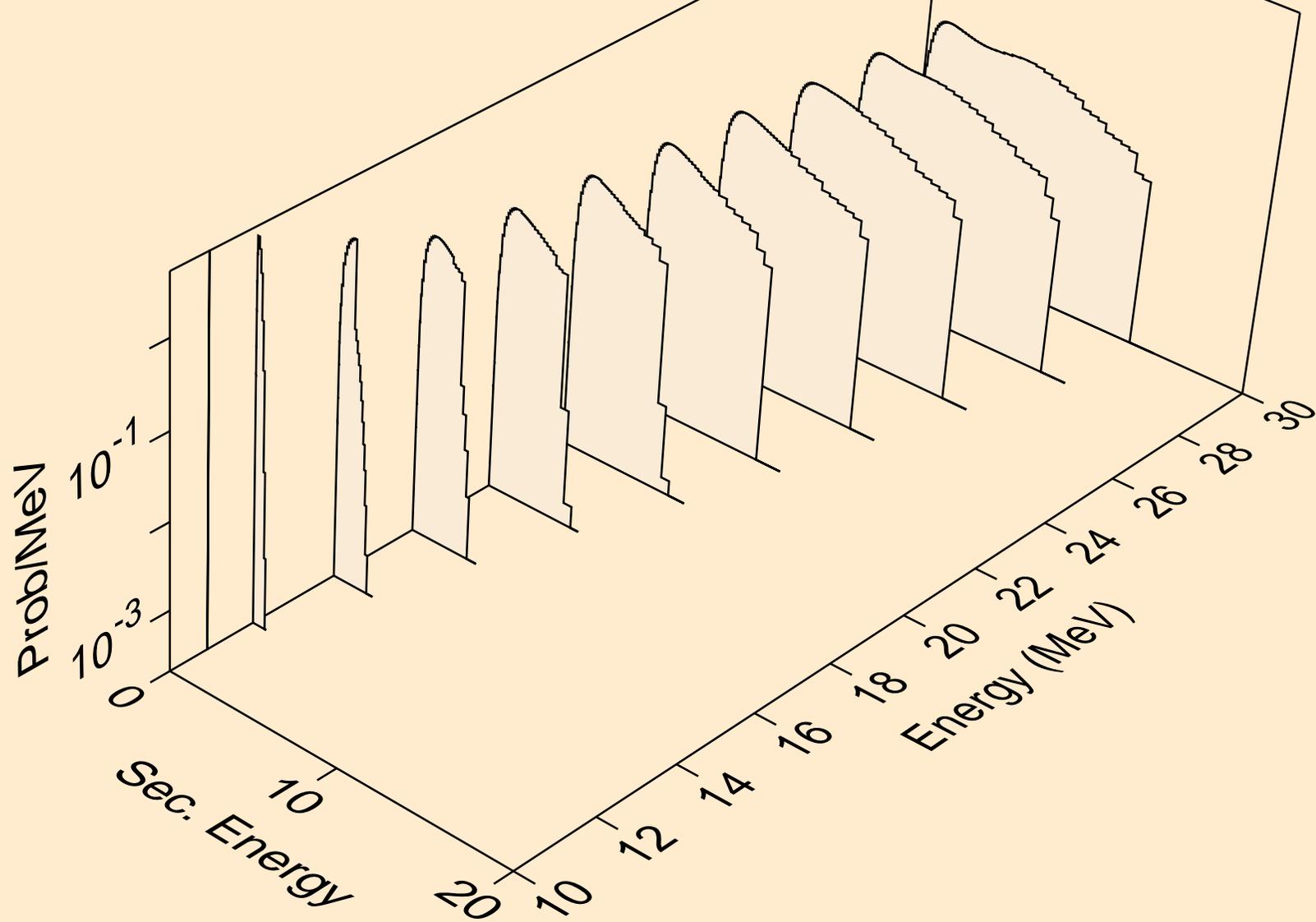NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
neutrons from (a,x)

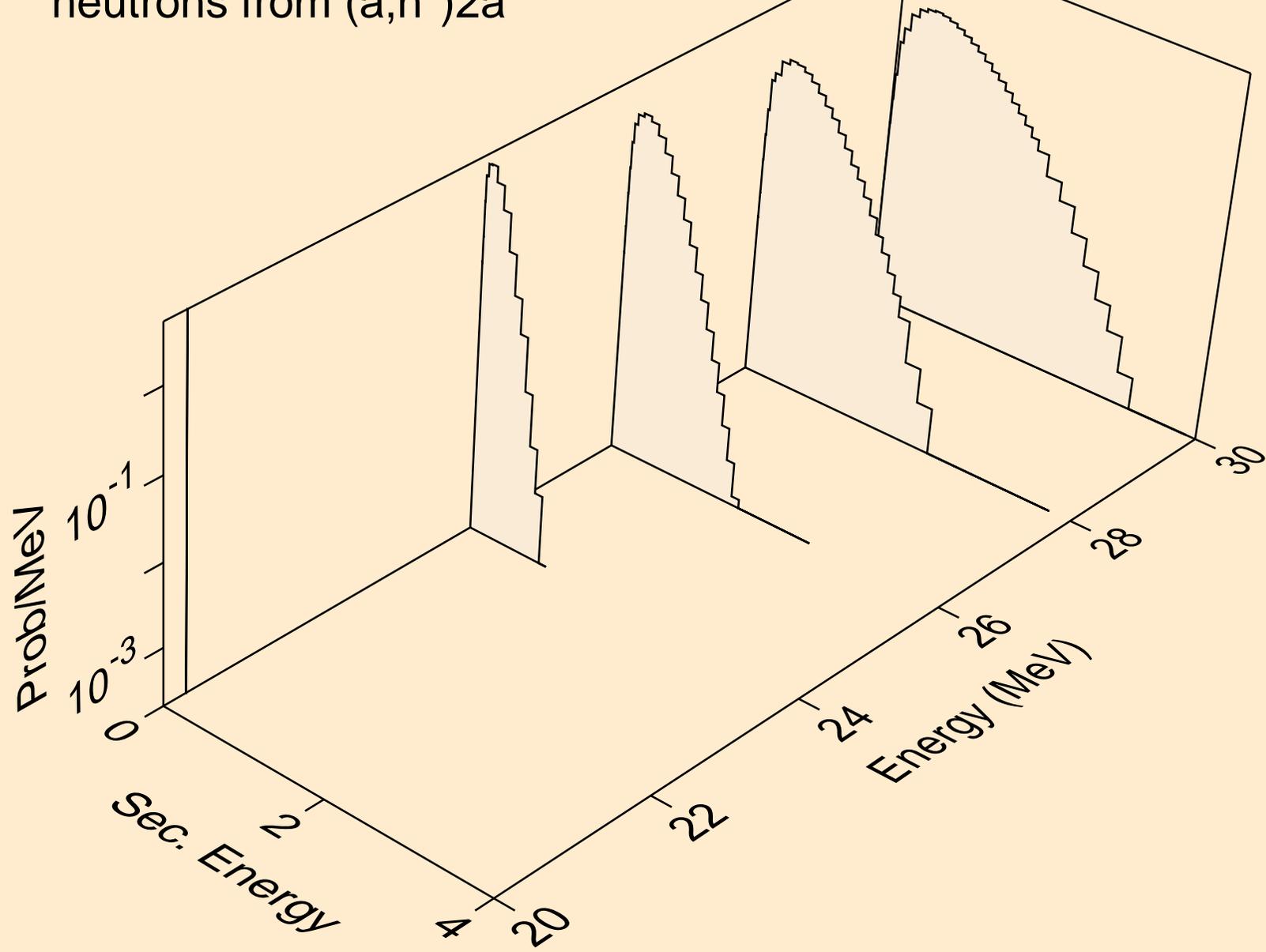NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
neutrons from (a,2n)

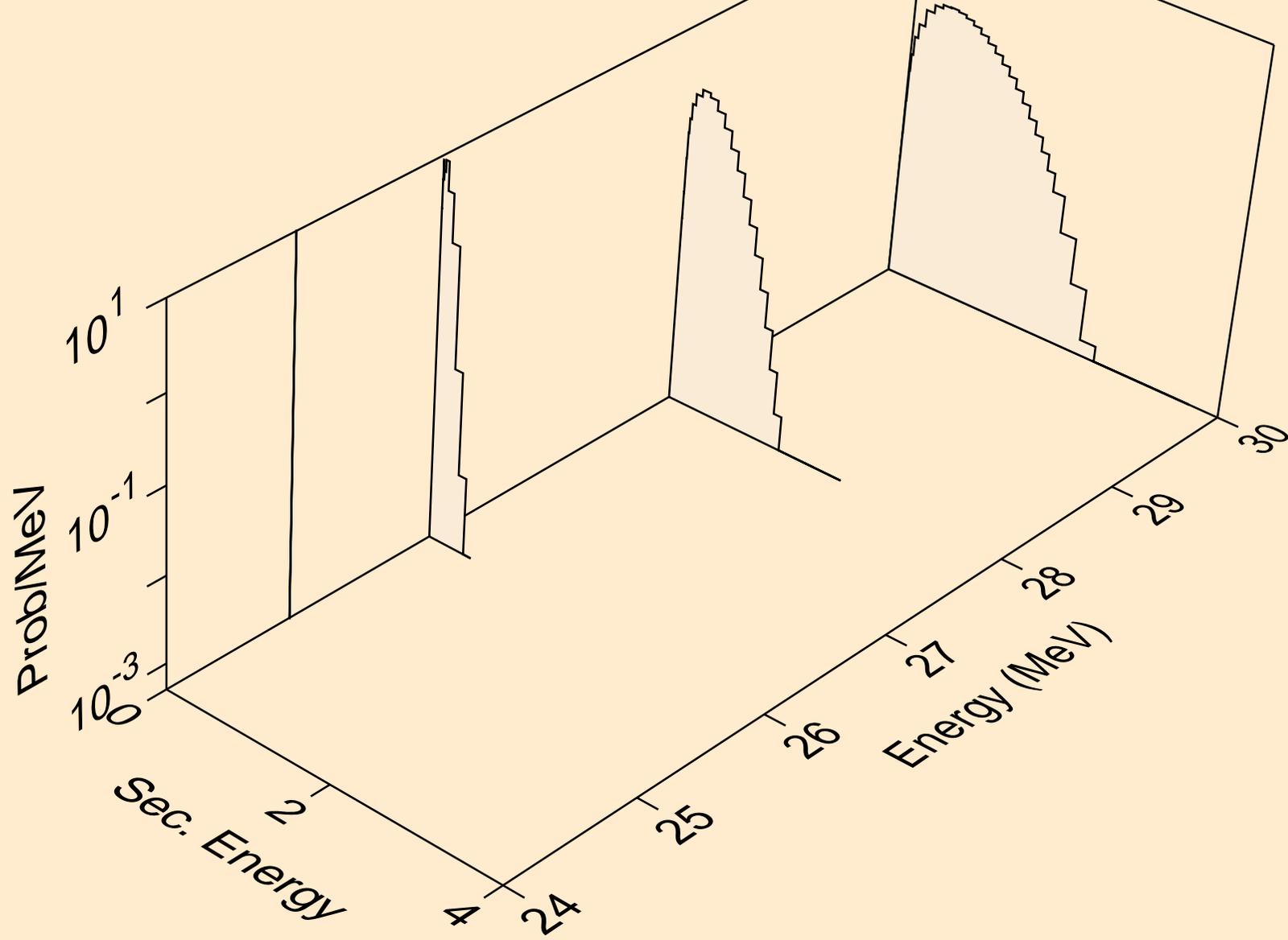NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
neutrons from (a,n*)a

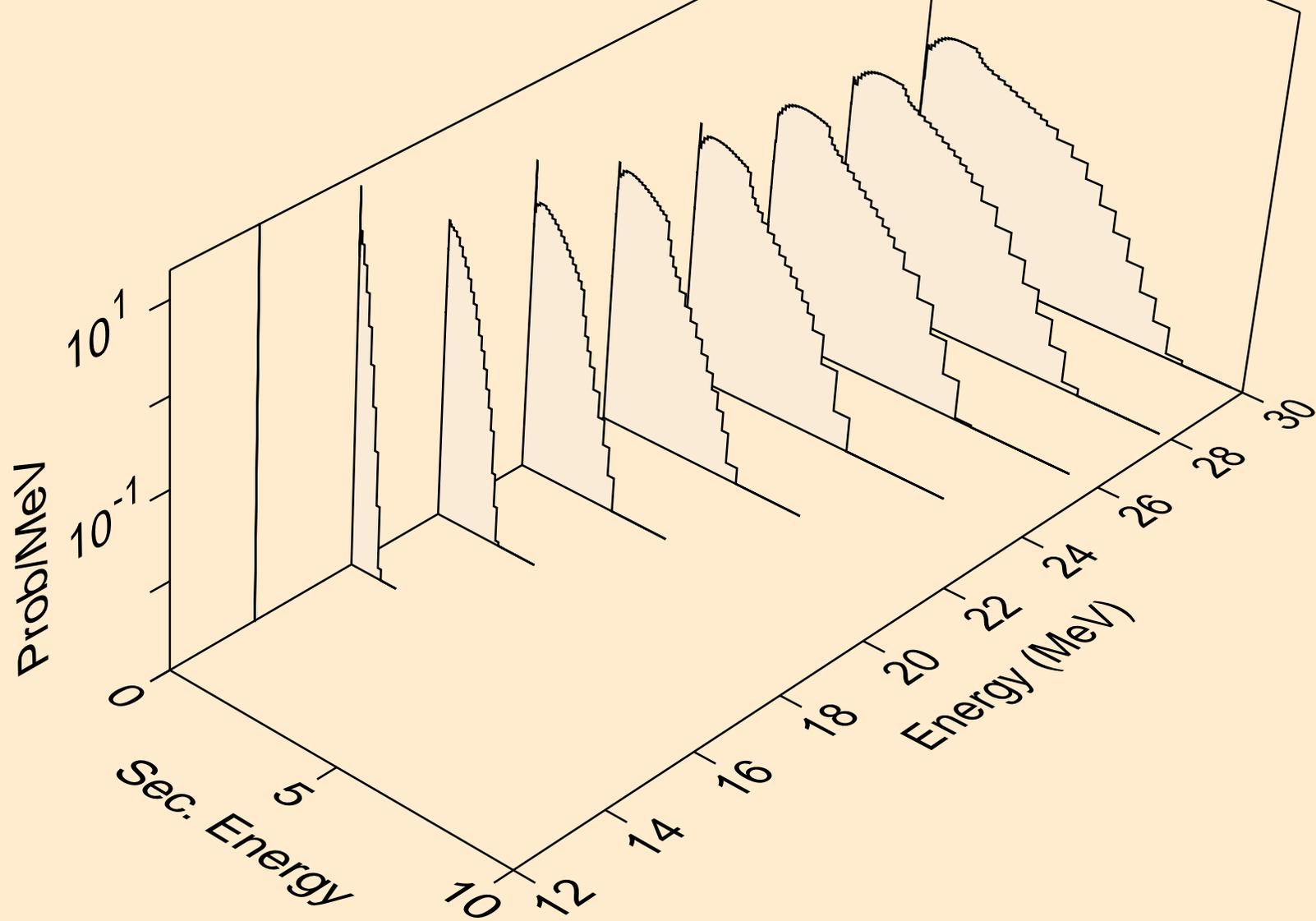NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
neutrons from (a,n*)p

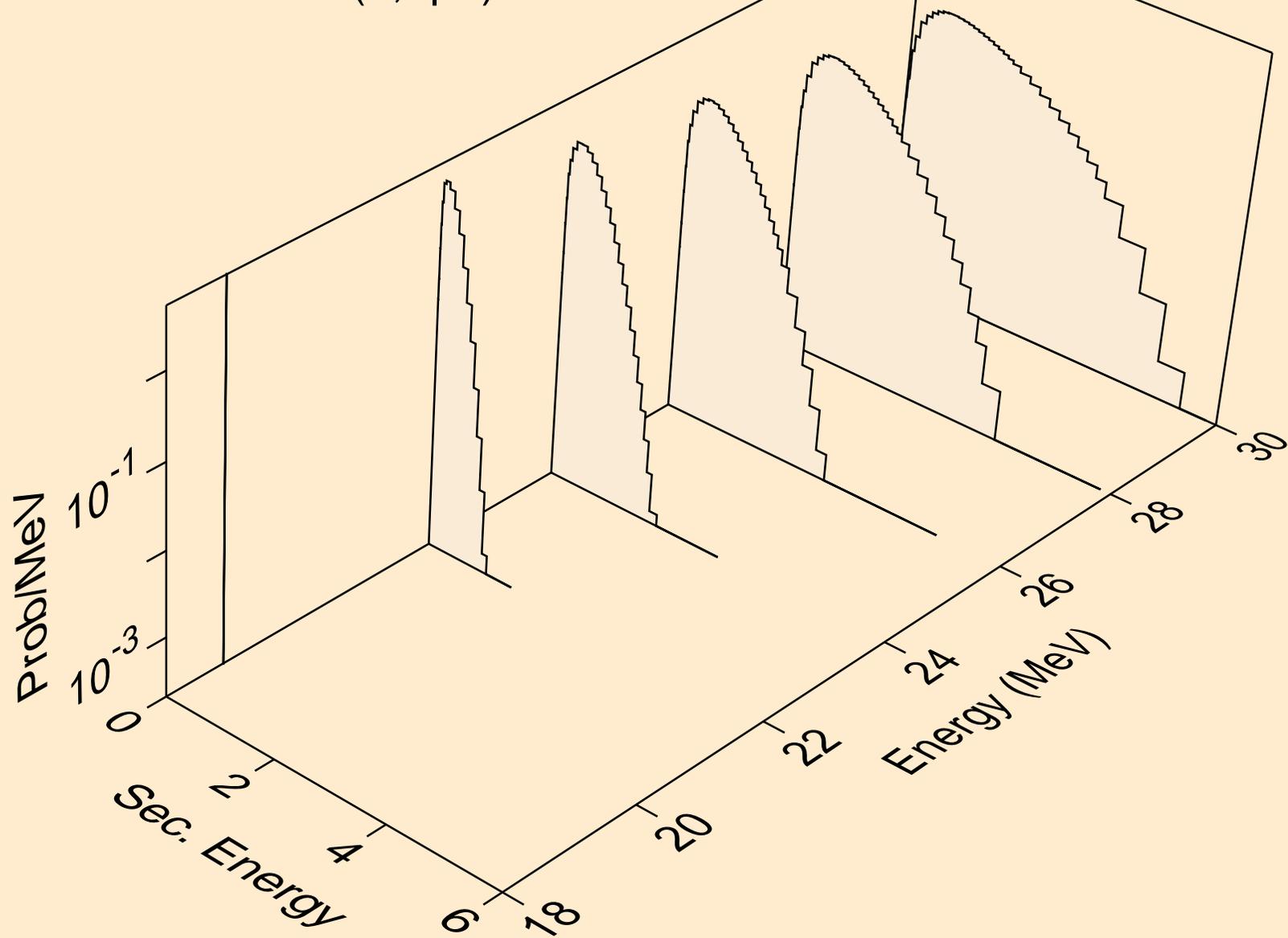NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
neutrons from (a,n*)2a

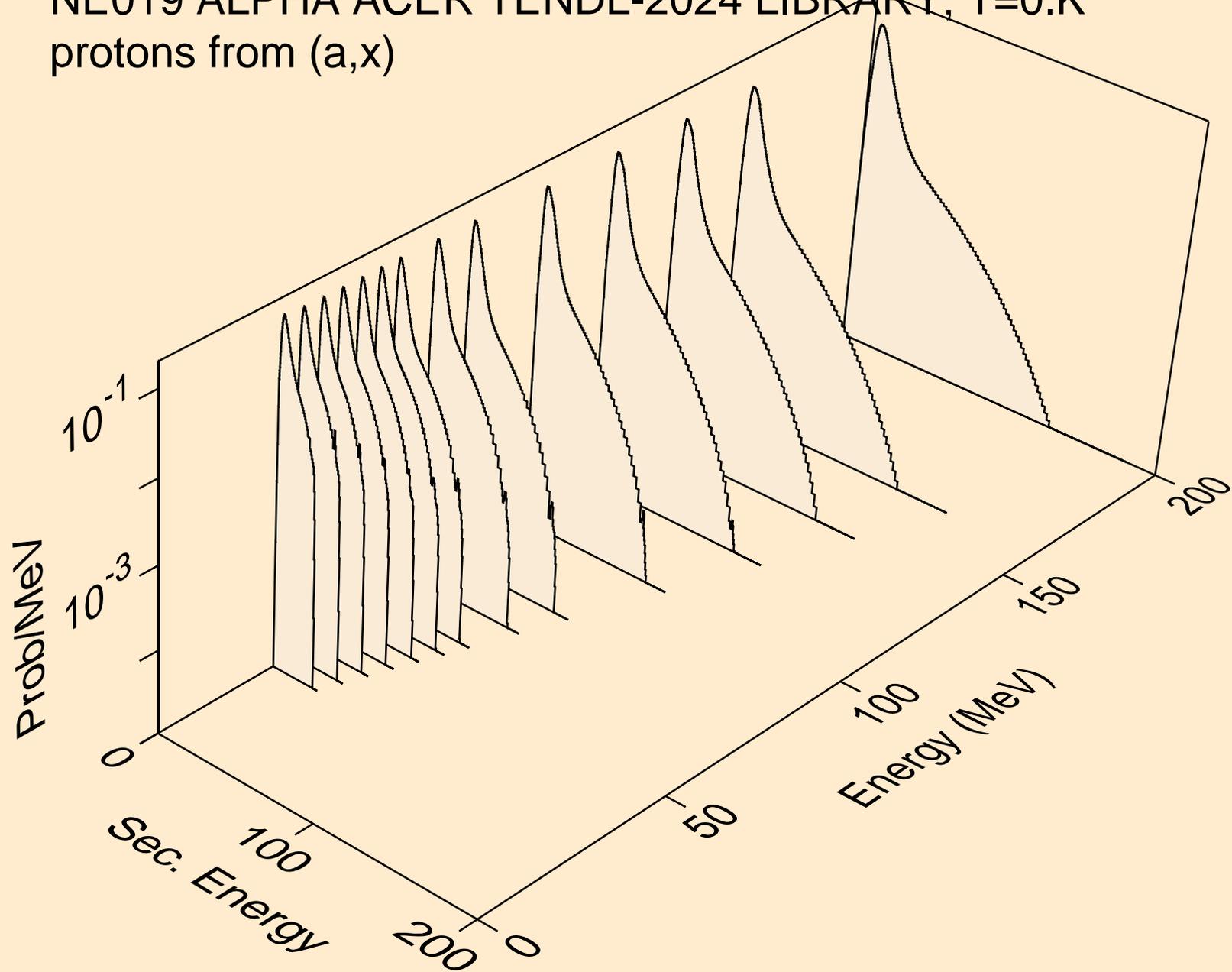NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
neutrons from (a,n*)he3

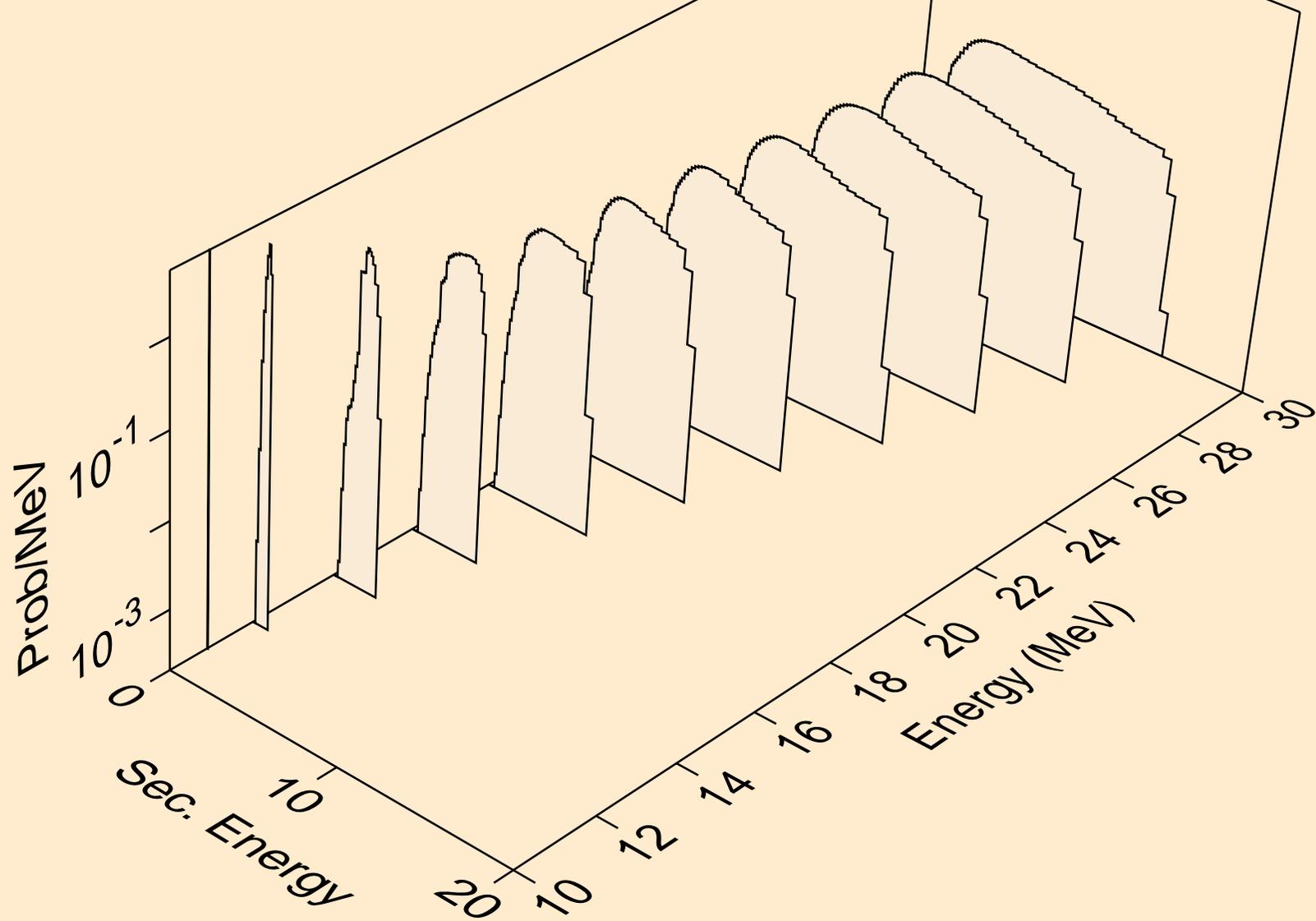NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
neutrons from (a,n2p)

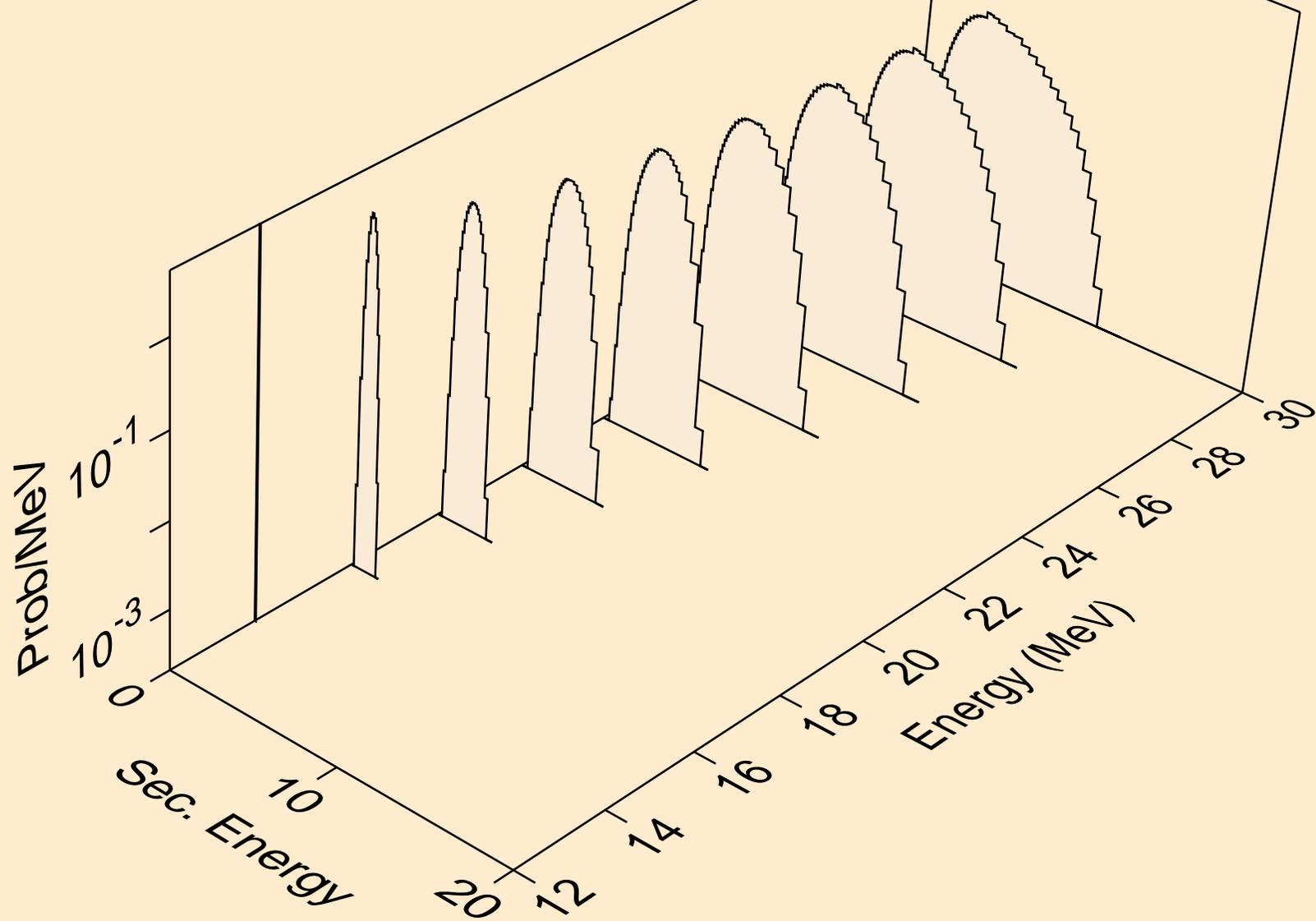NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
neutrons from (a,npa)

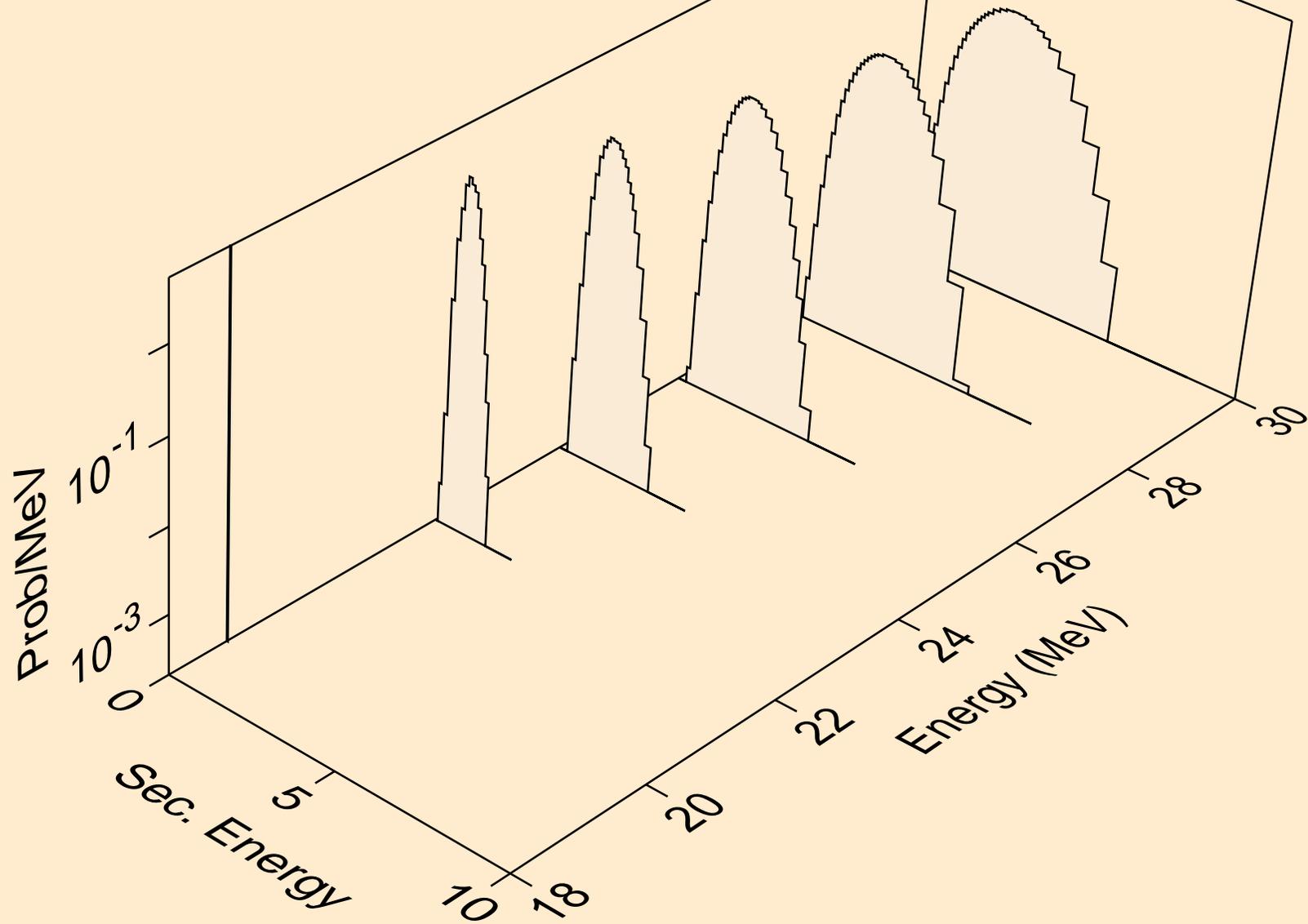NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
protons from (a,x)

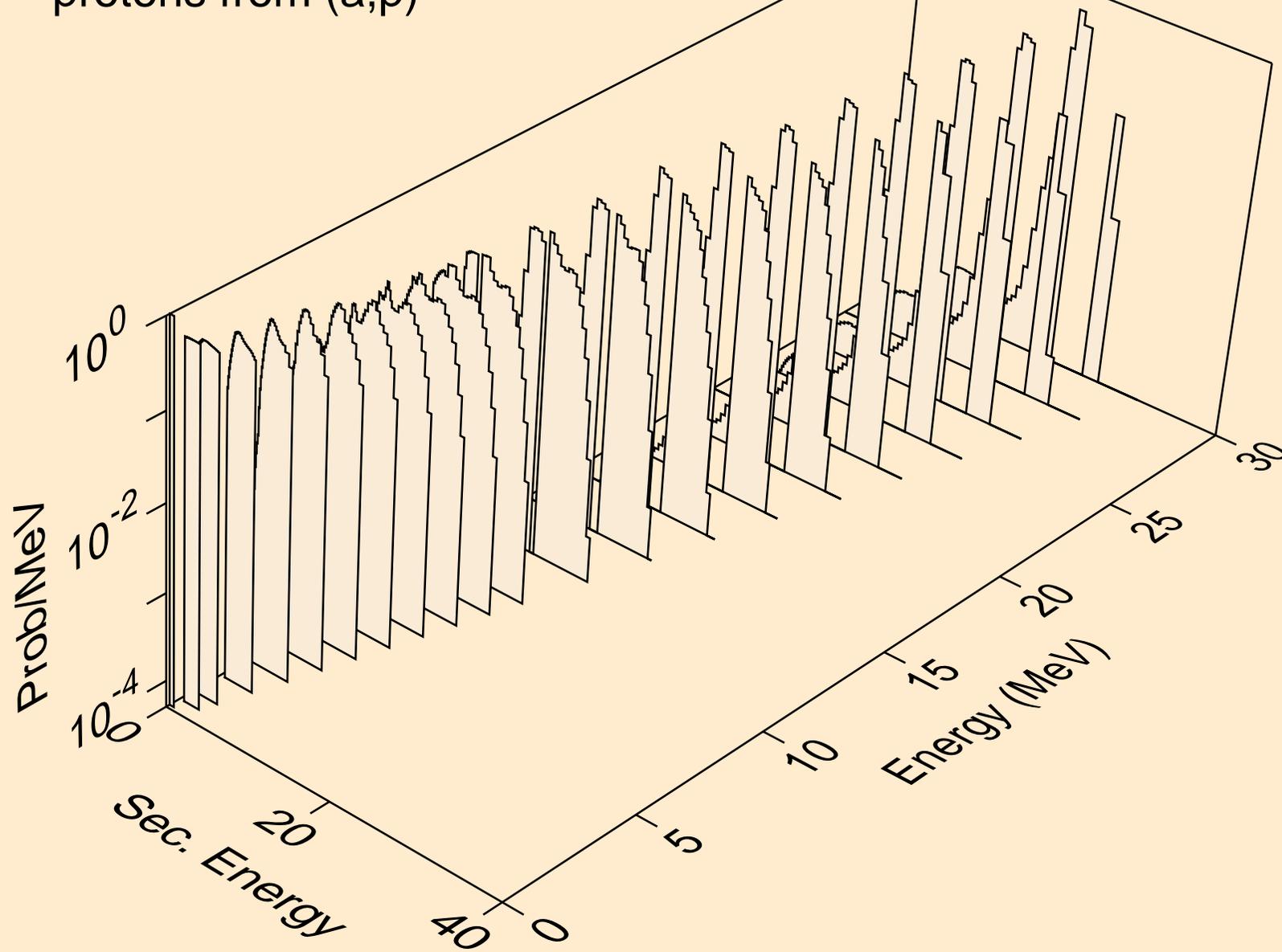NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
protons from (a,n*)p

NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
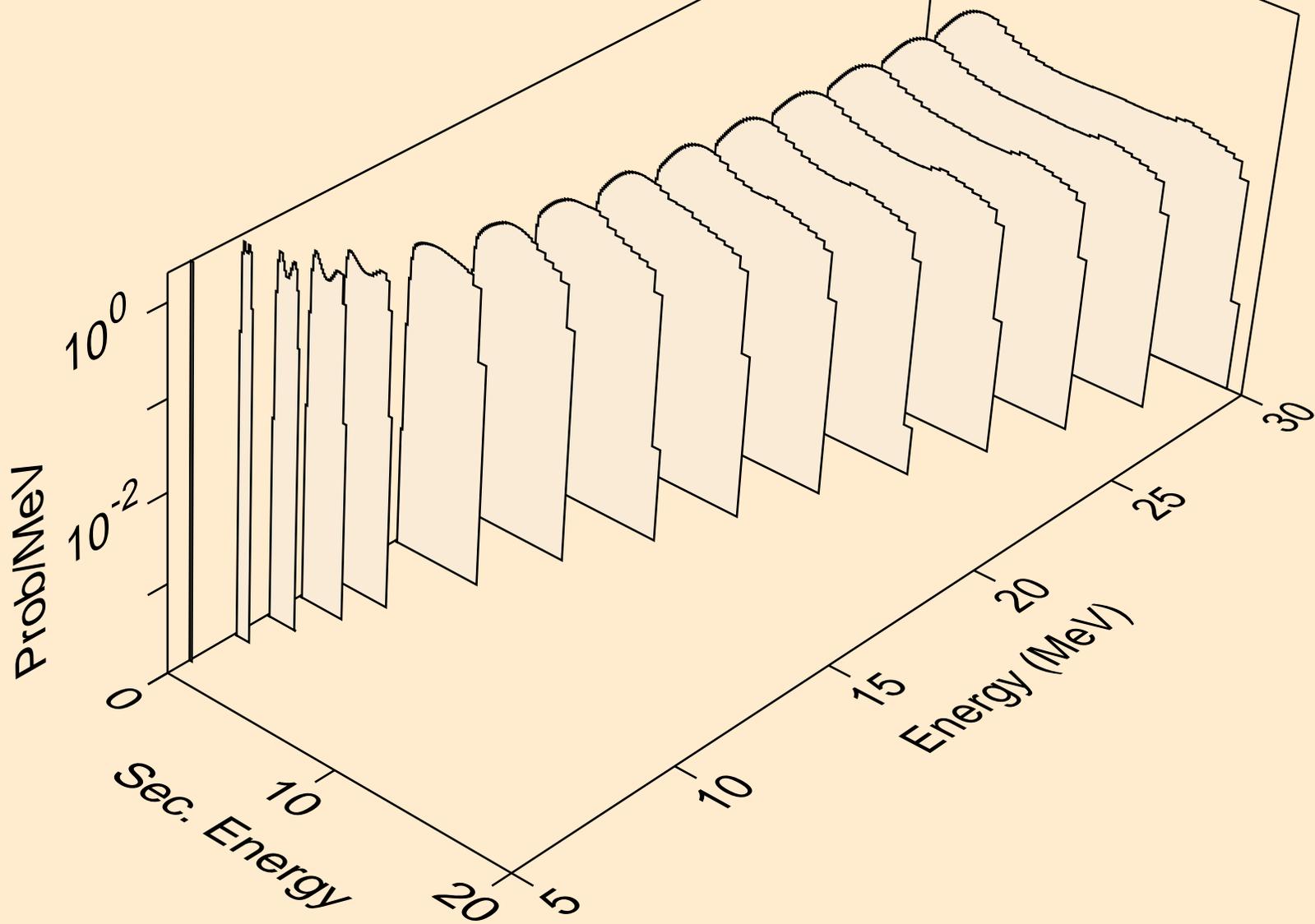protons from (a,n2p)

NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
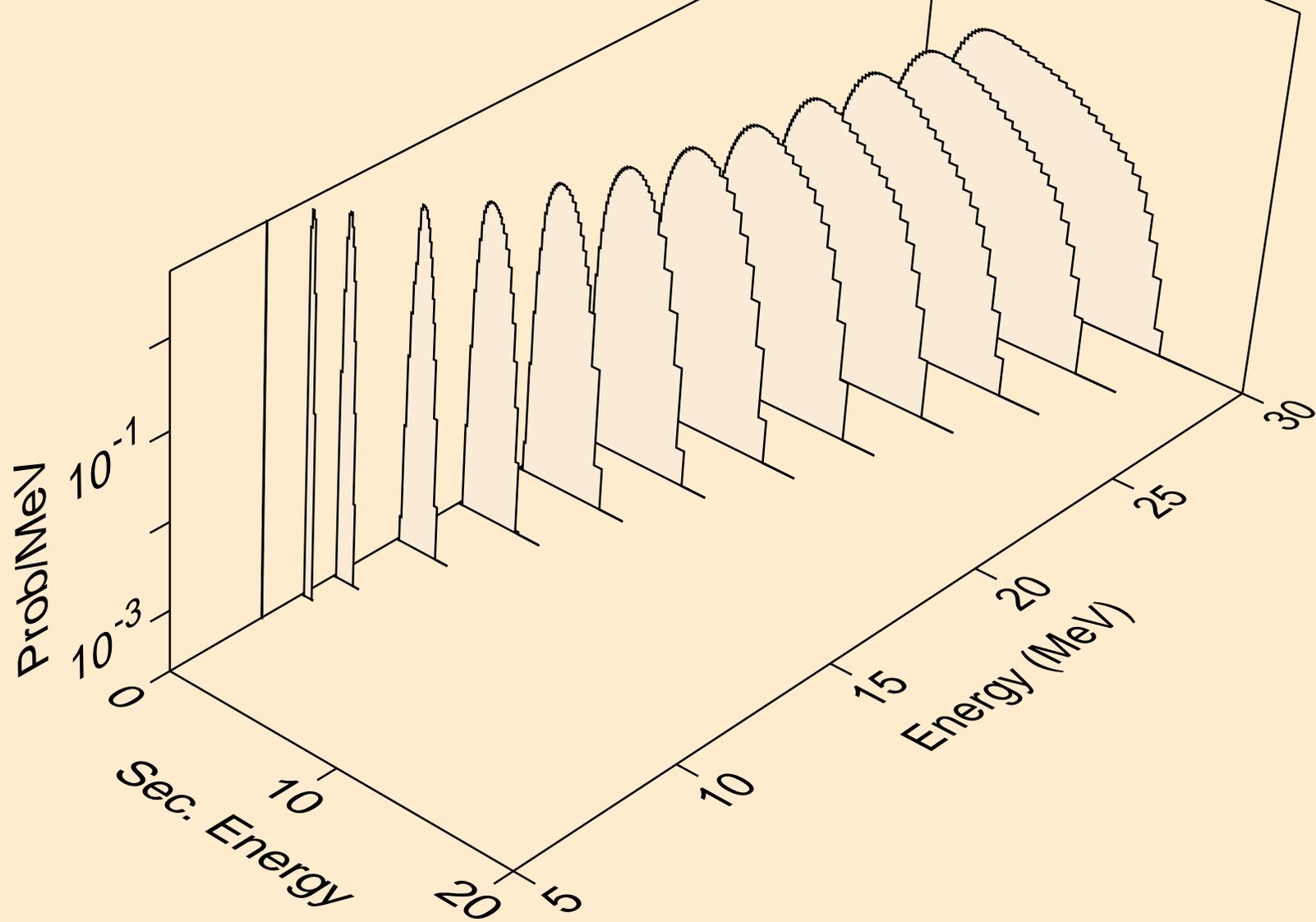protons from (a,npa)

NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
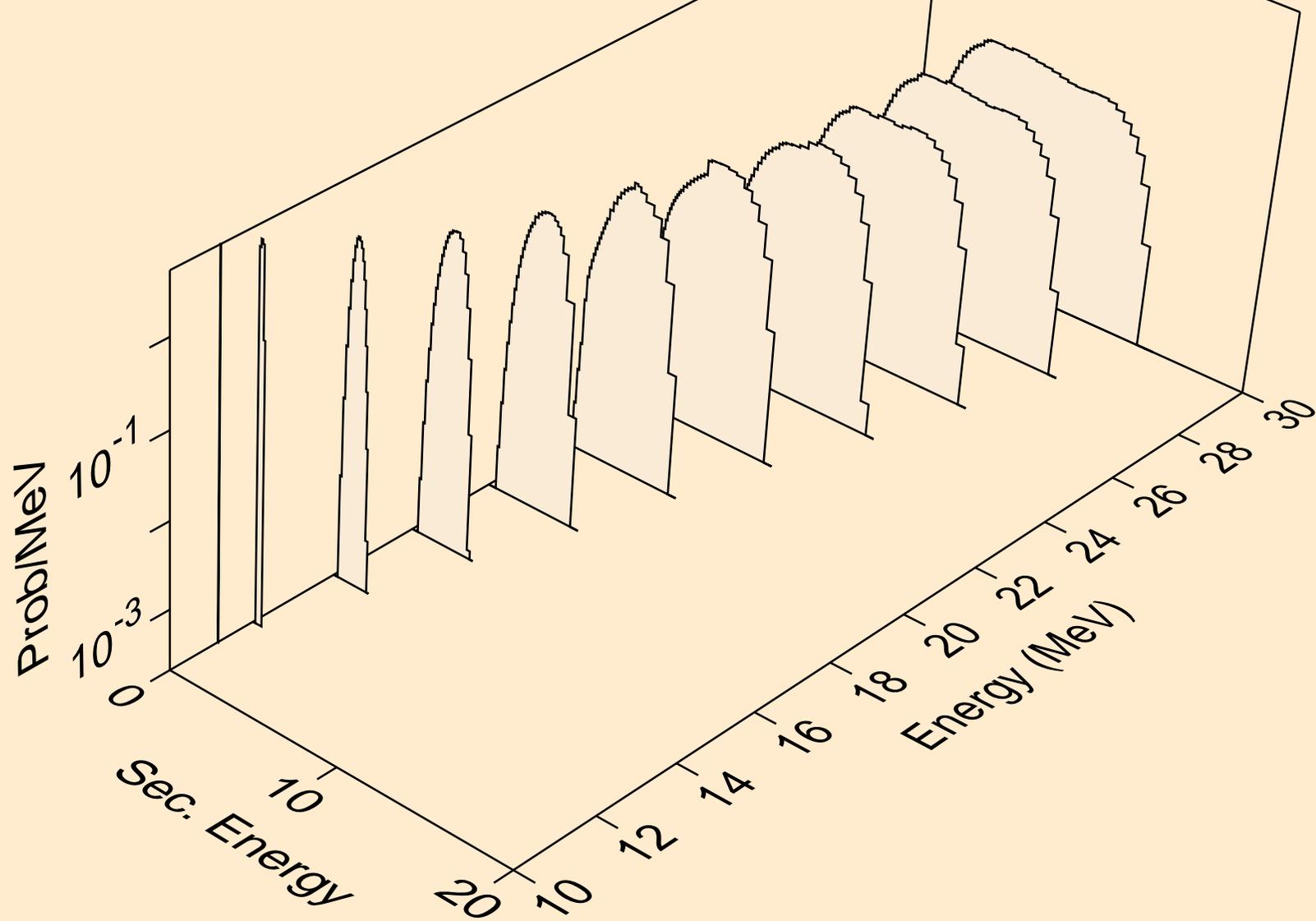protons from (a,p)

NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
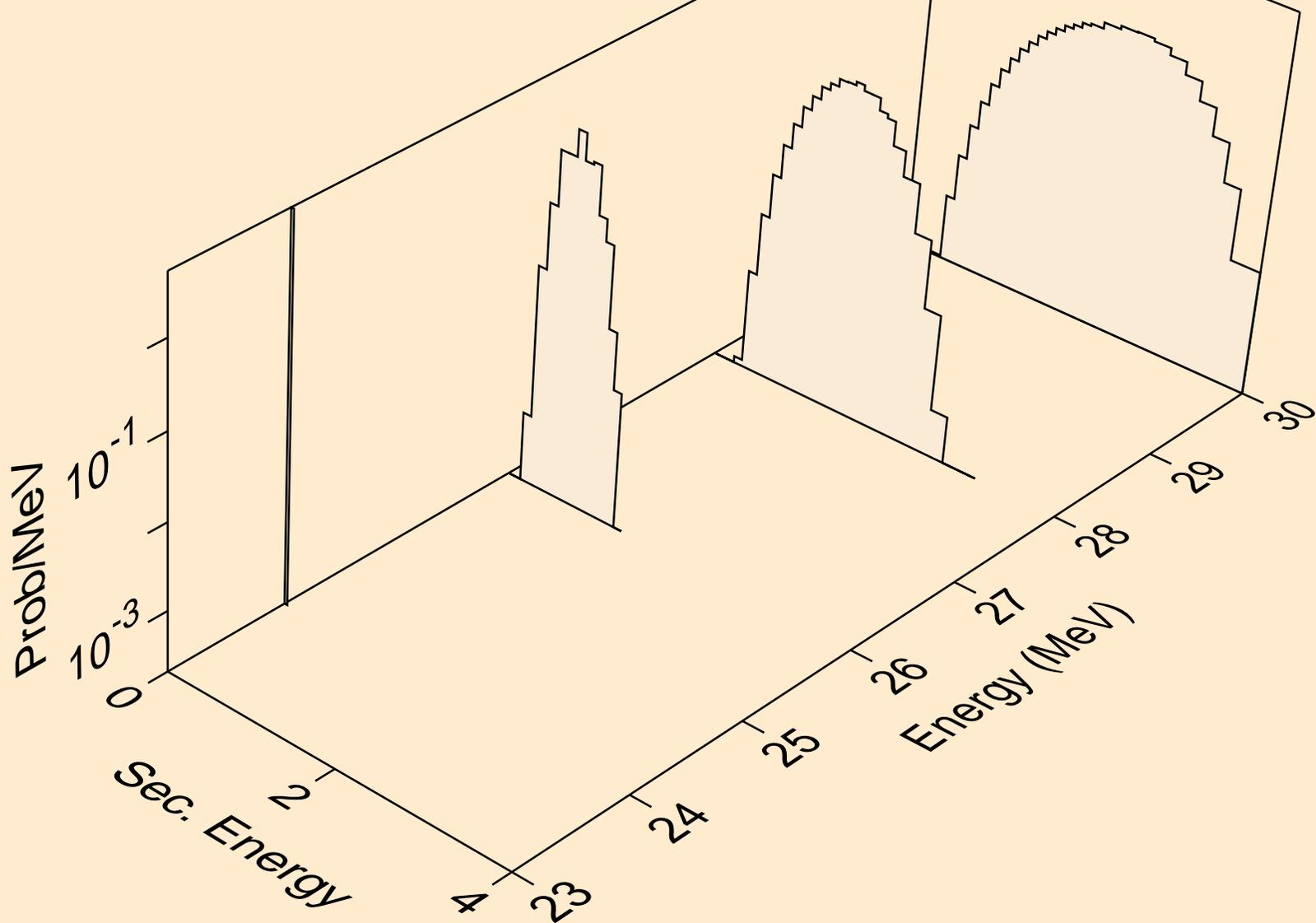protons from (a,2p)

NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
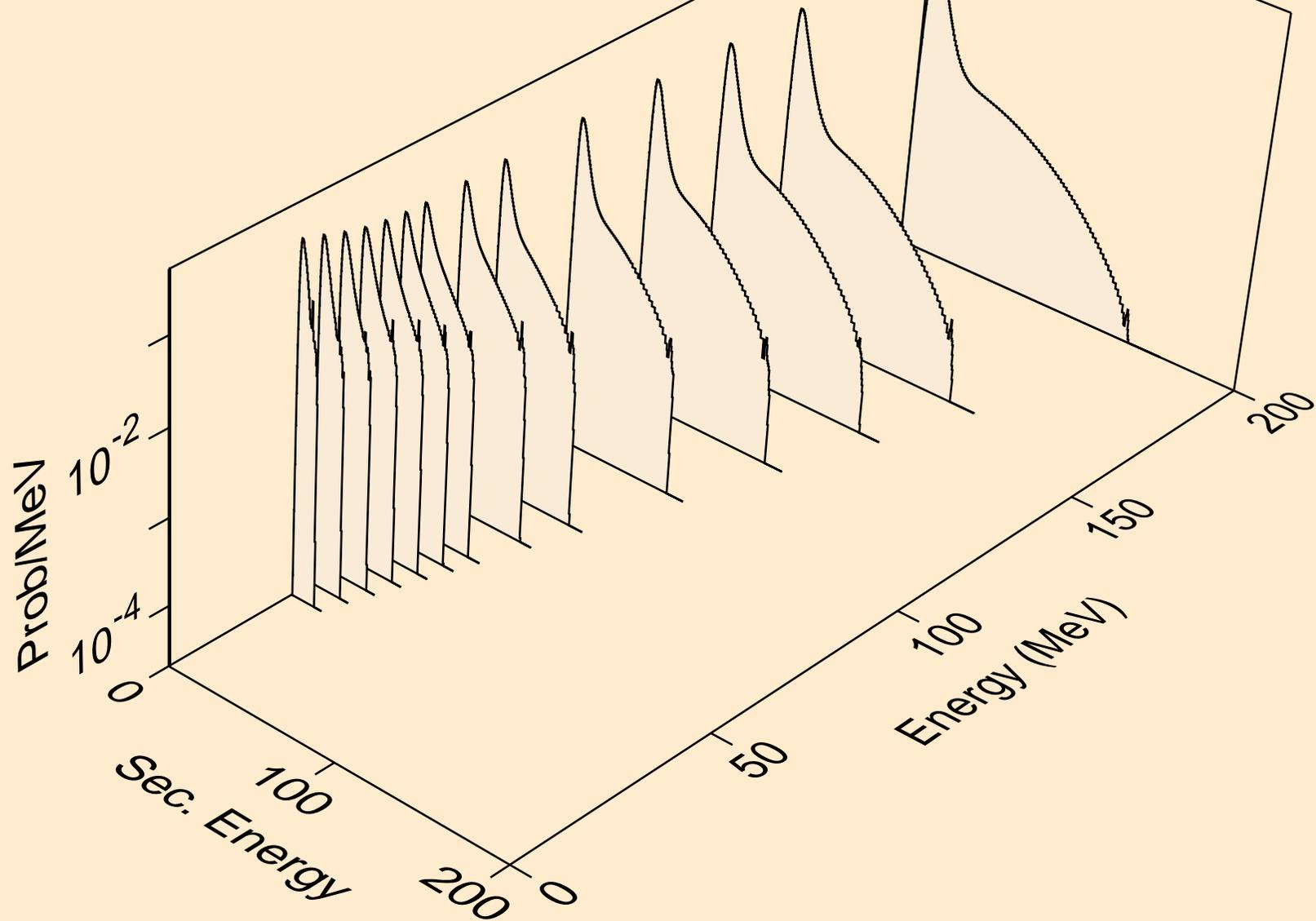protons from (a,pa)

NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
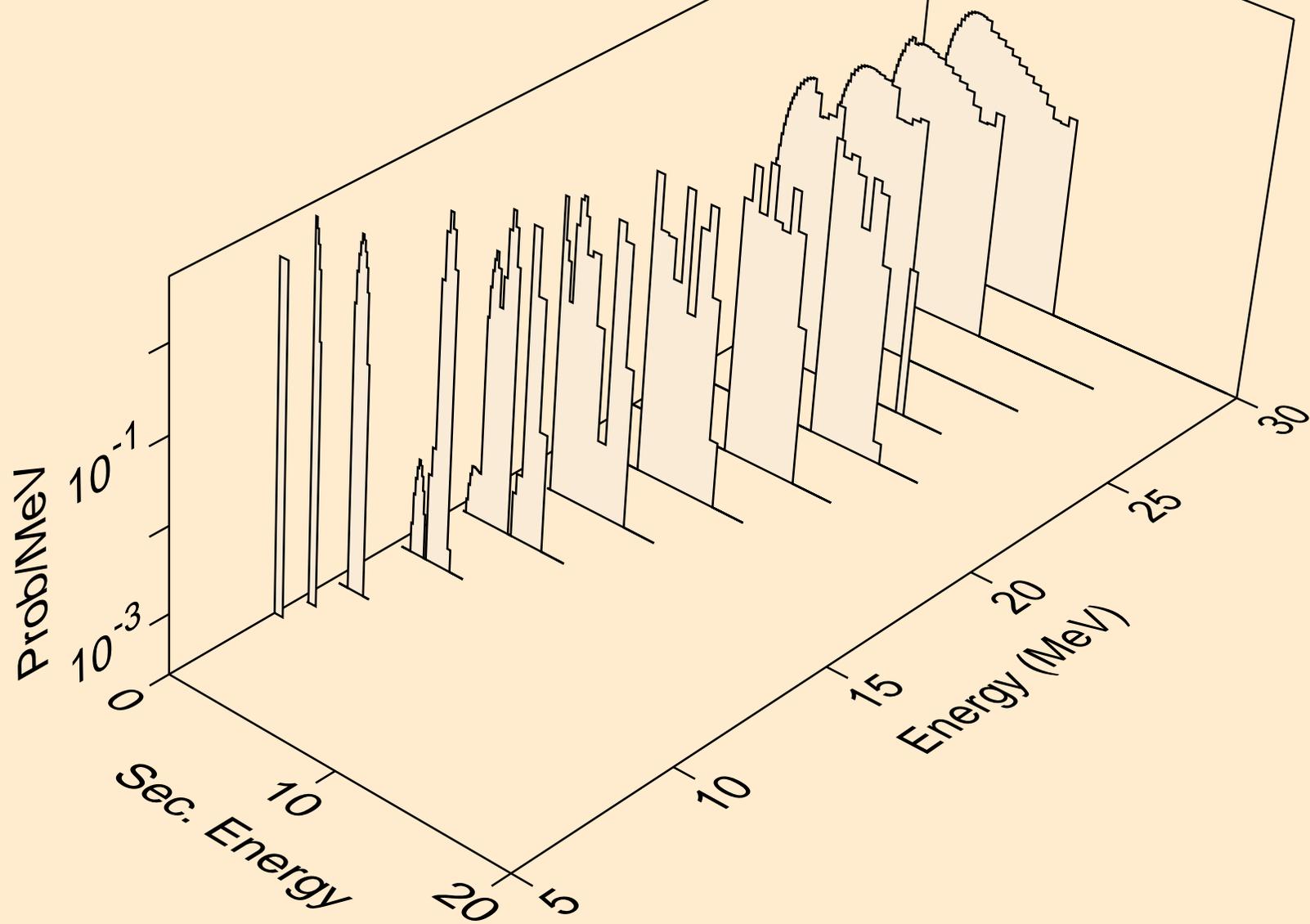protons from (a,pd)

NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
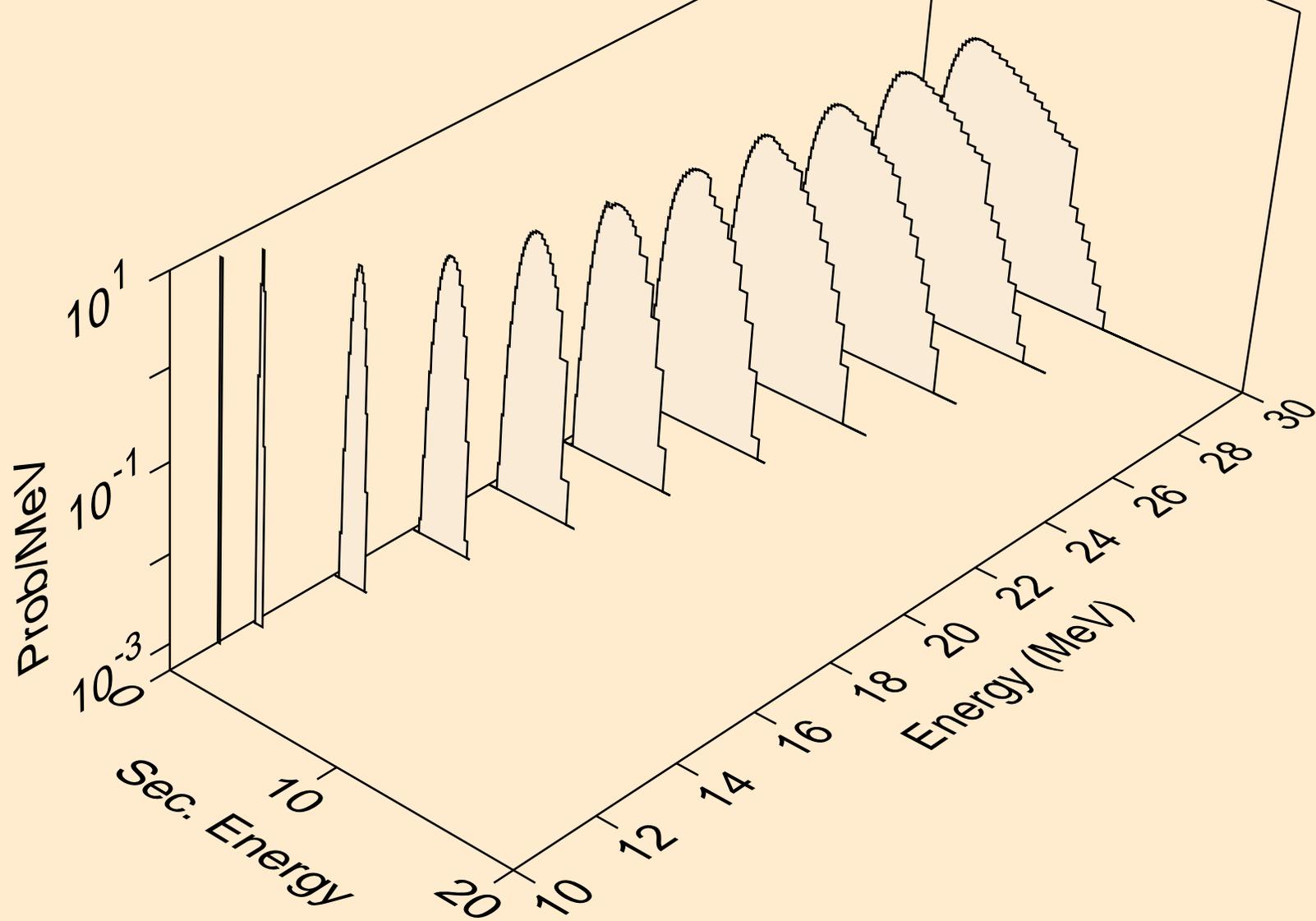protons from (a,pt)

NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
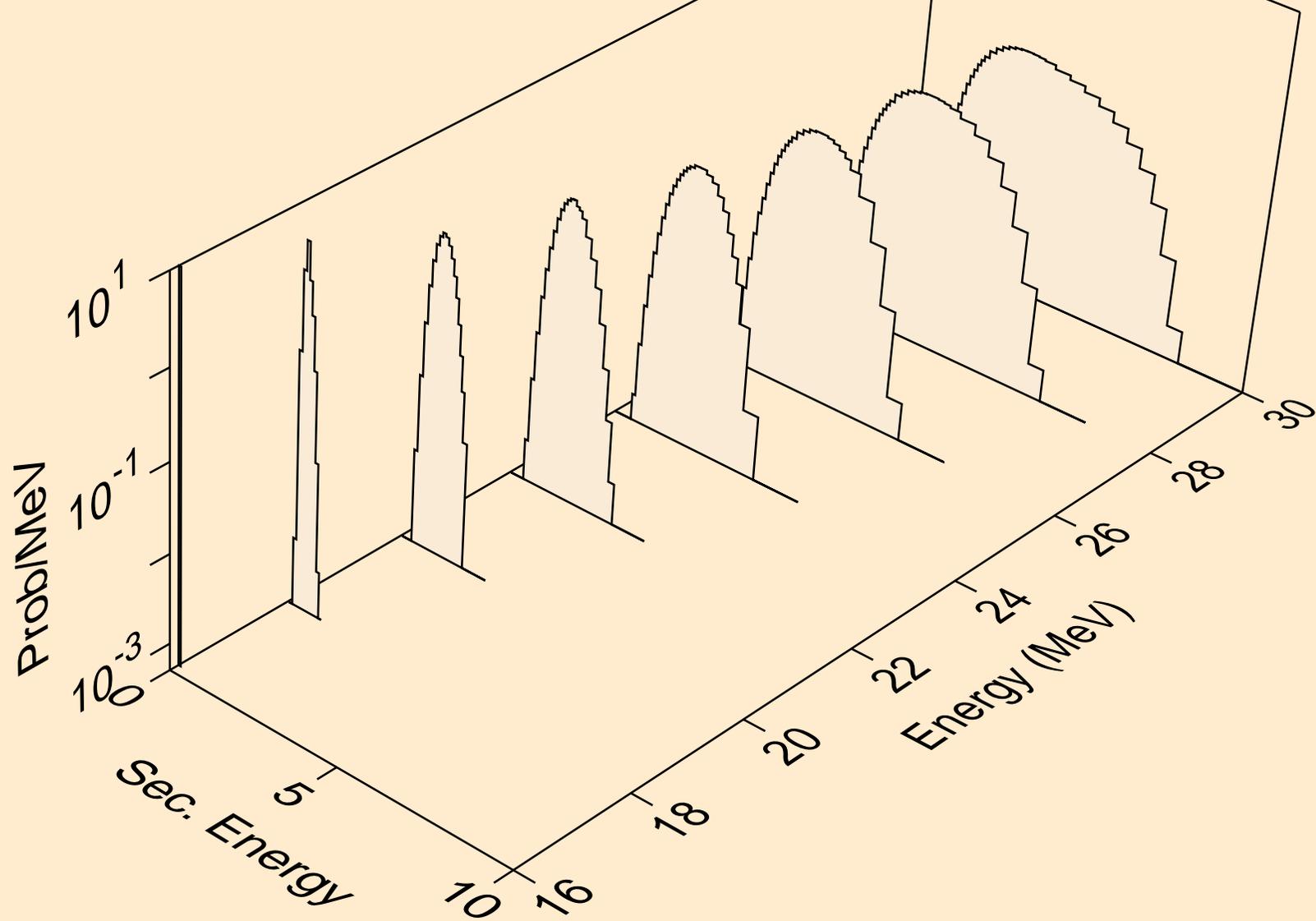deuterons from (a,x)

NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
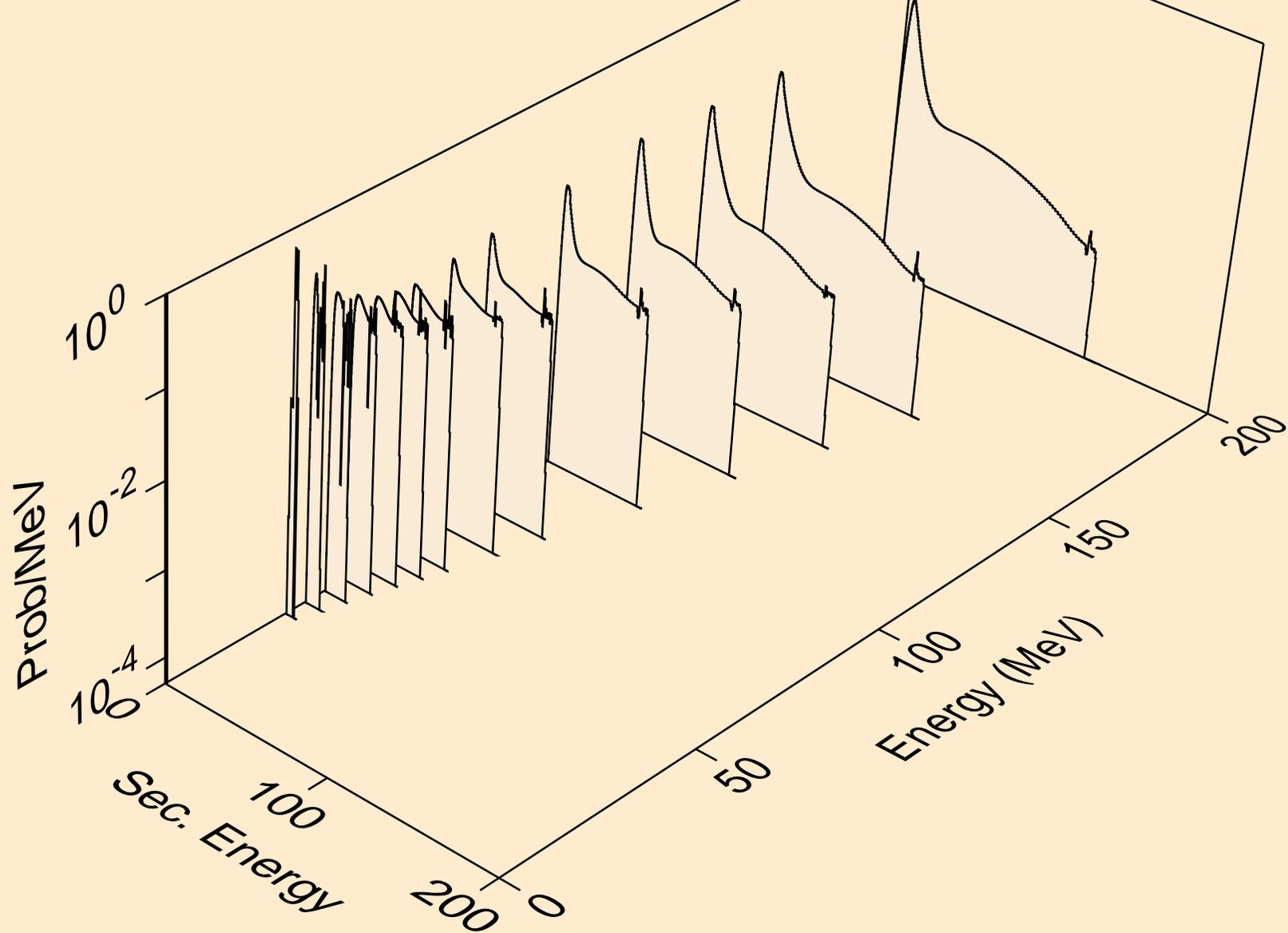deuterons from (a,d)

NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
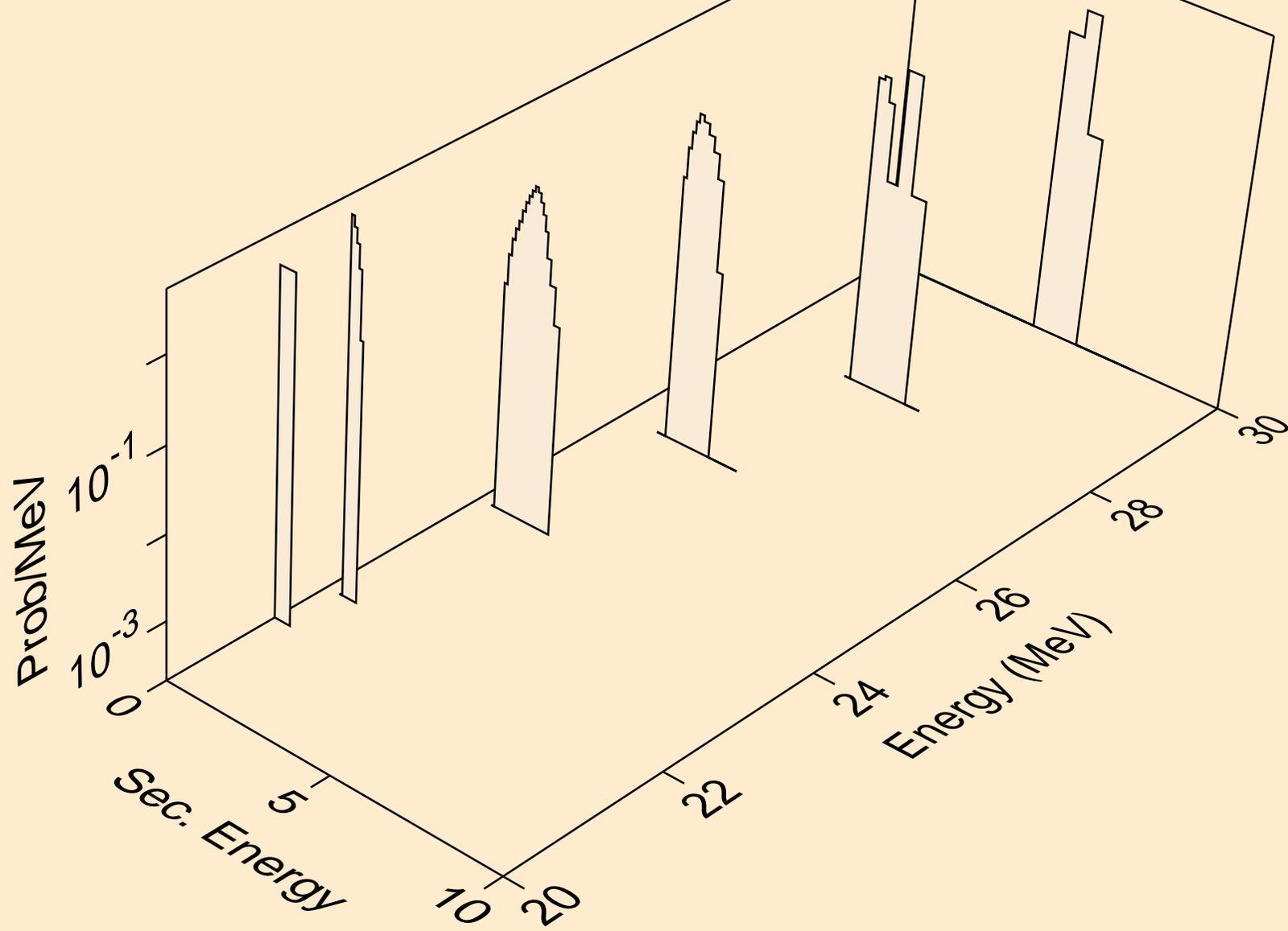deuterons from (a,pd)

NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
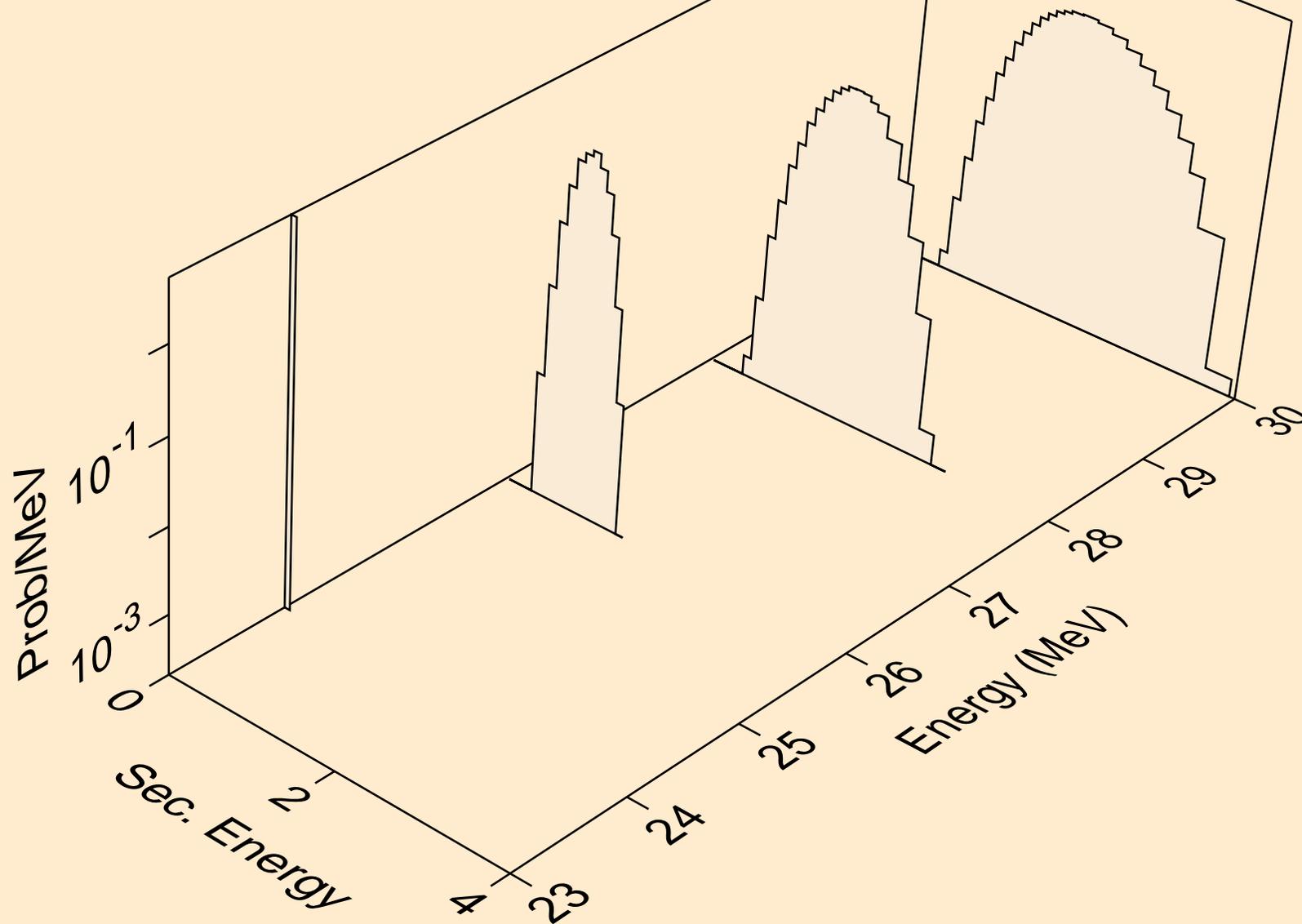deuterons from (a,da)

NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
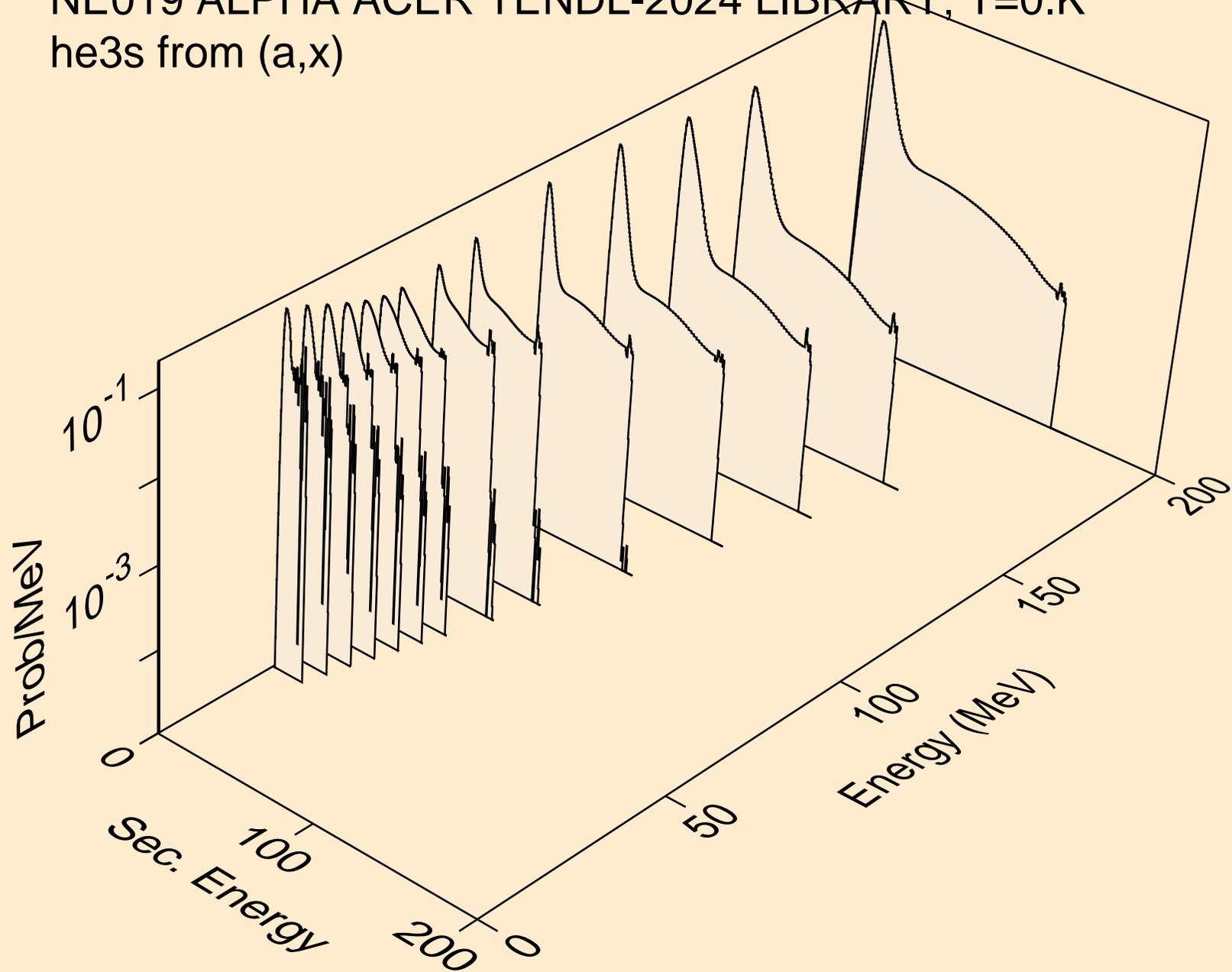tritons from (a,x)

NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
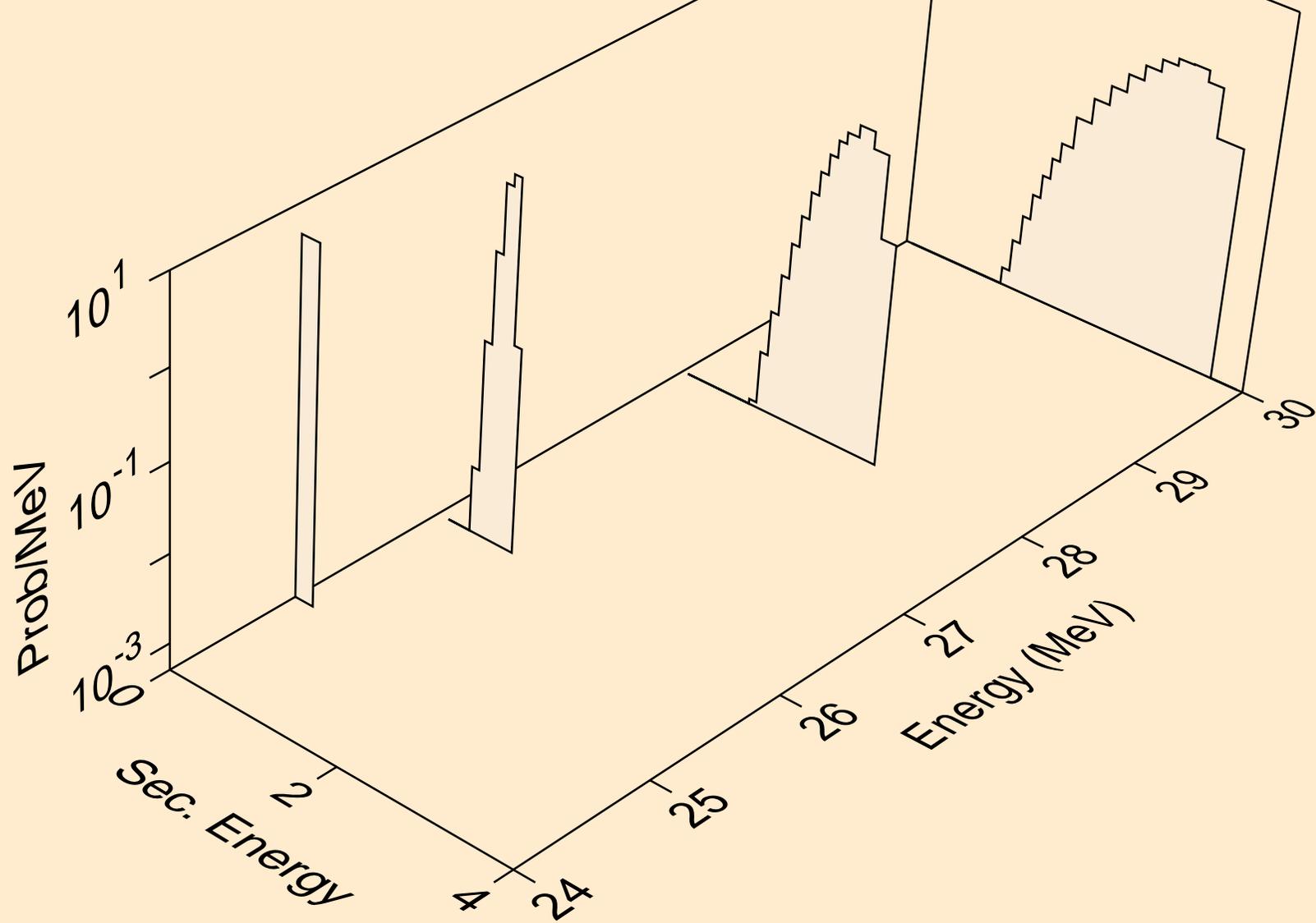tritons from (a,t)

NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
tritons from (a,pt)

NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
he3s from (a,x)

NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
he3s from (a,n*)he3

NE019 ALPHA ACER TENDL-2024 LIBRARY; T=0.K
he3s from (a,he3)