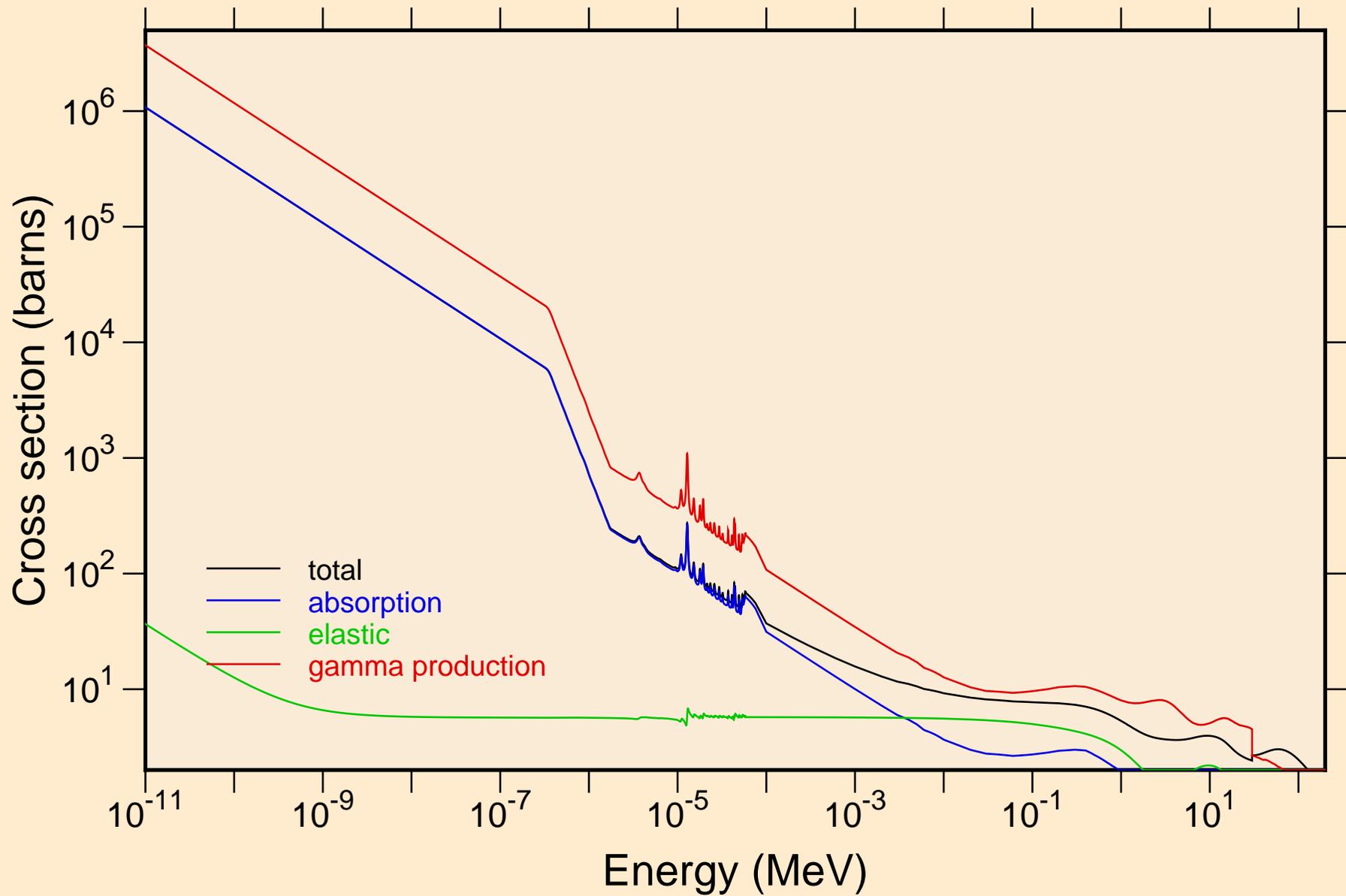Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Principal cross sections

- total
- absorption
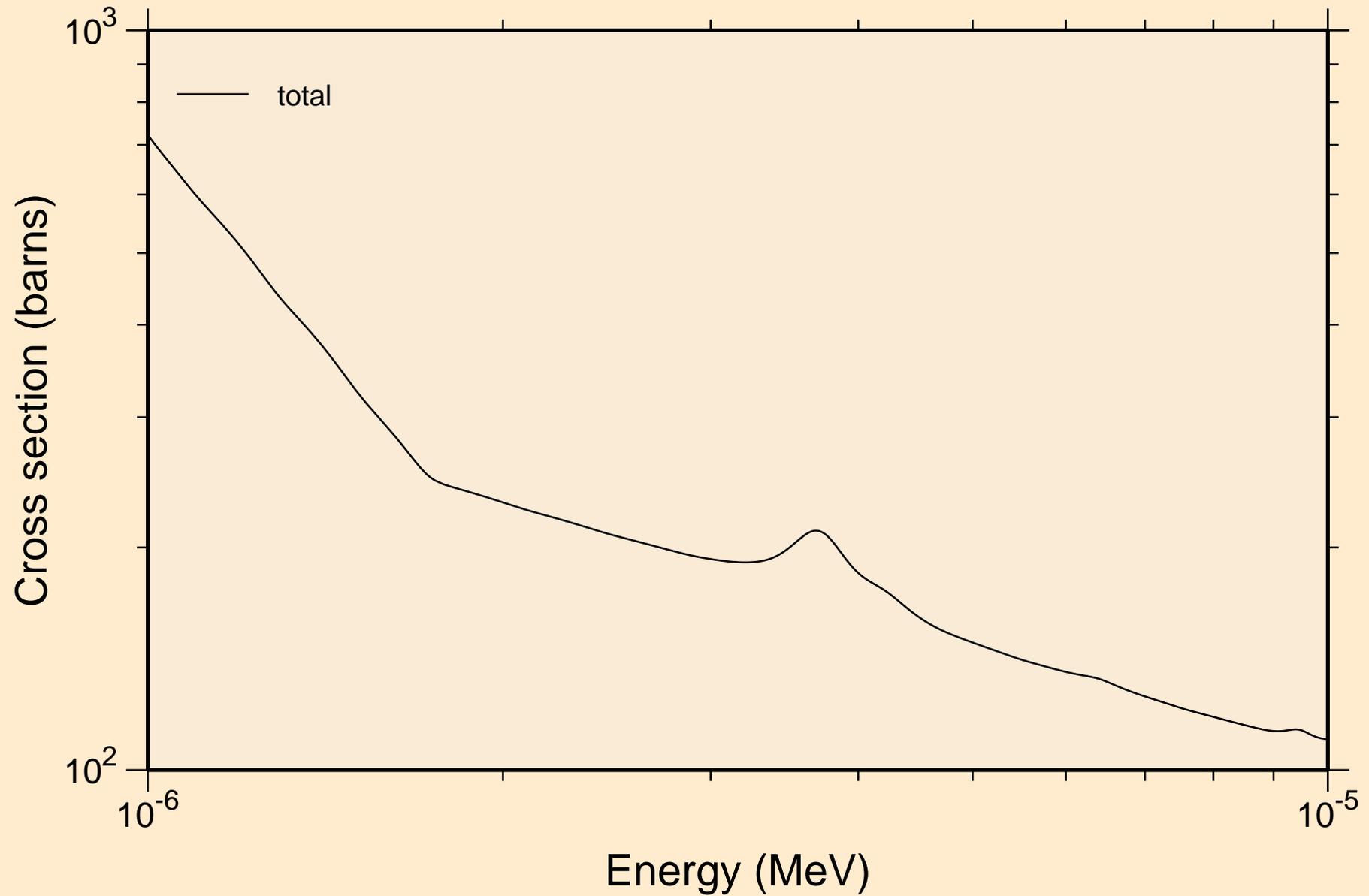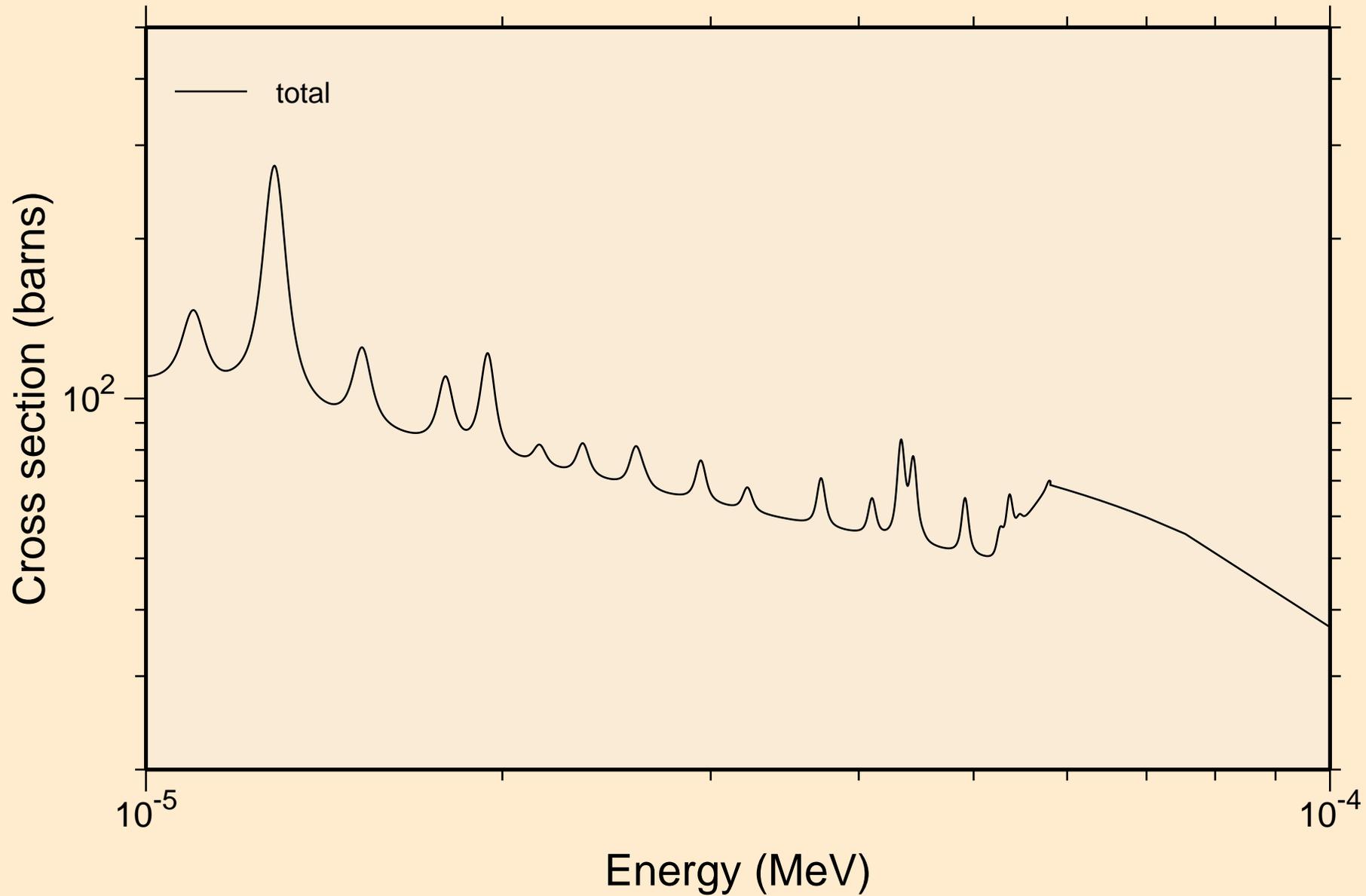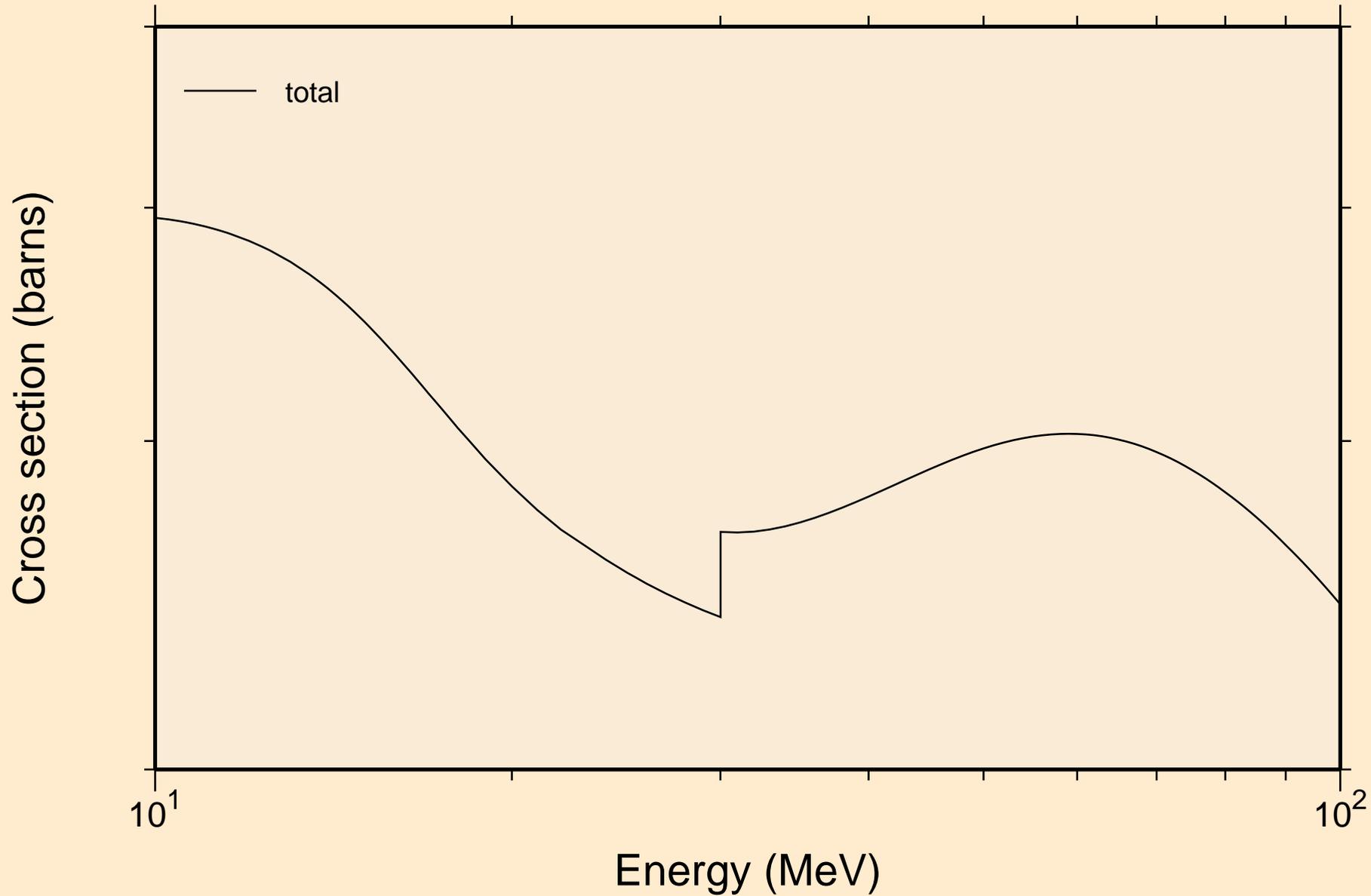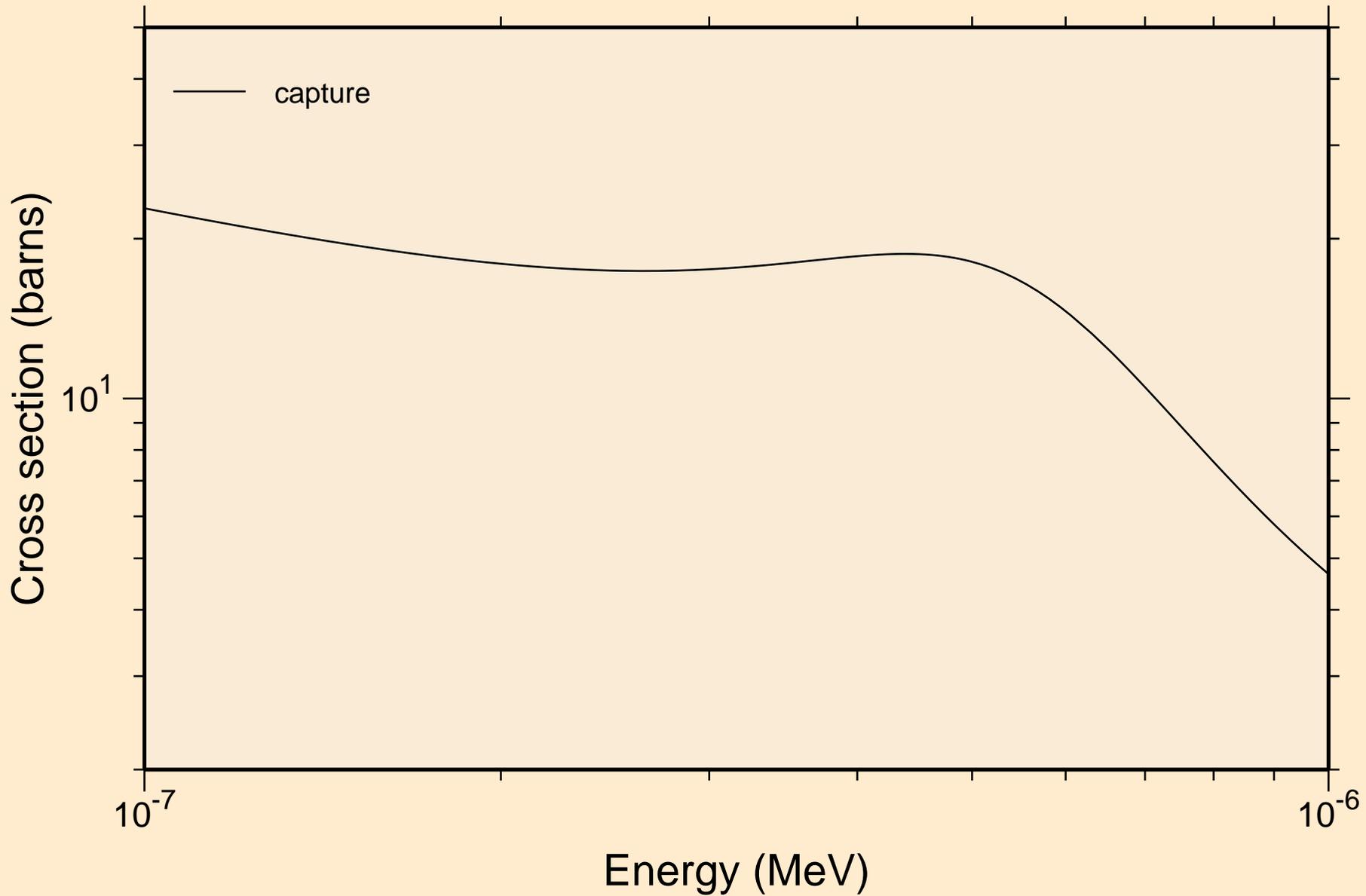- elastic
- gamma production

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
resonance total cross section

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
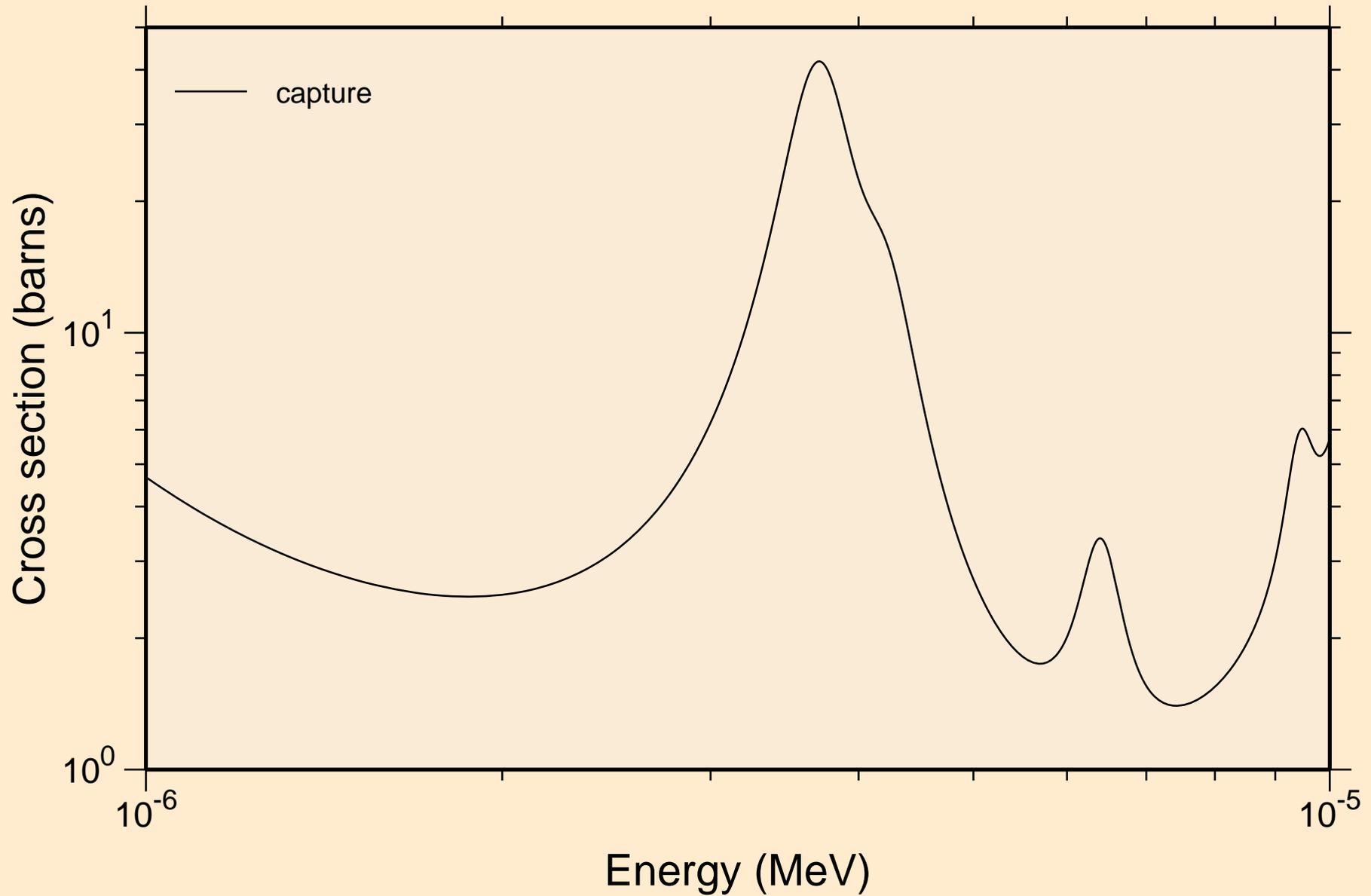resonance total cross section

Y̅080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
resonance total cross section

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
resonance absorption cross sections

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
resonance absorption cross sections
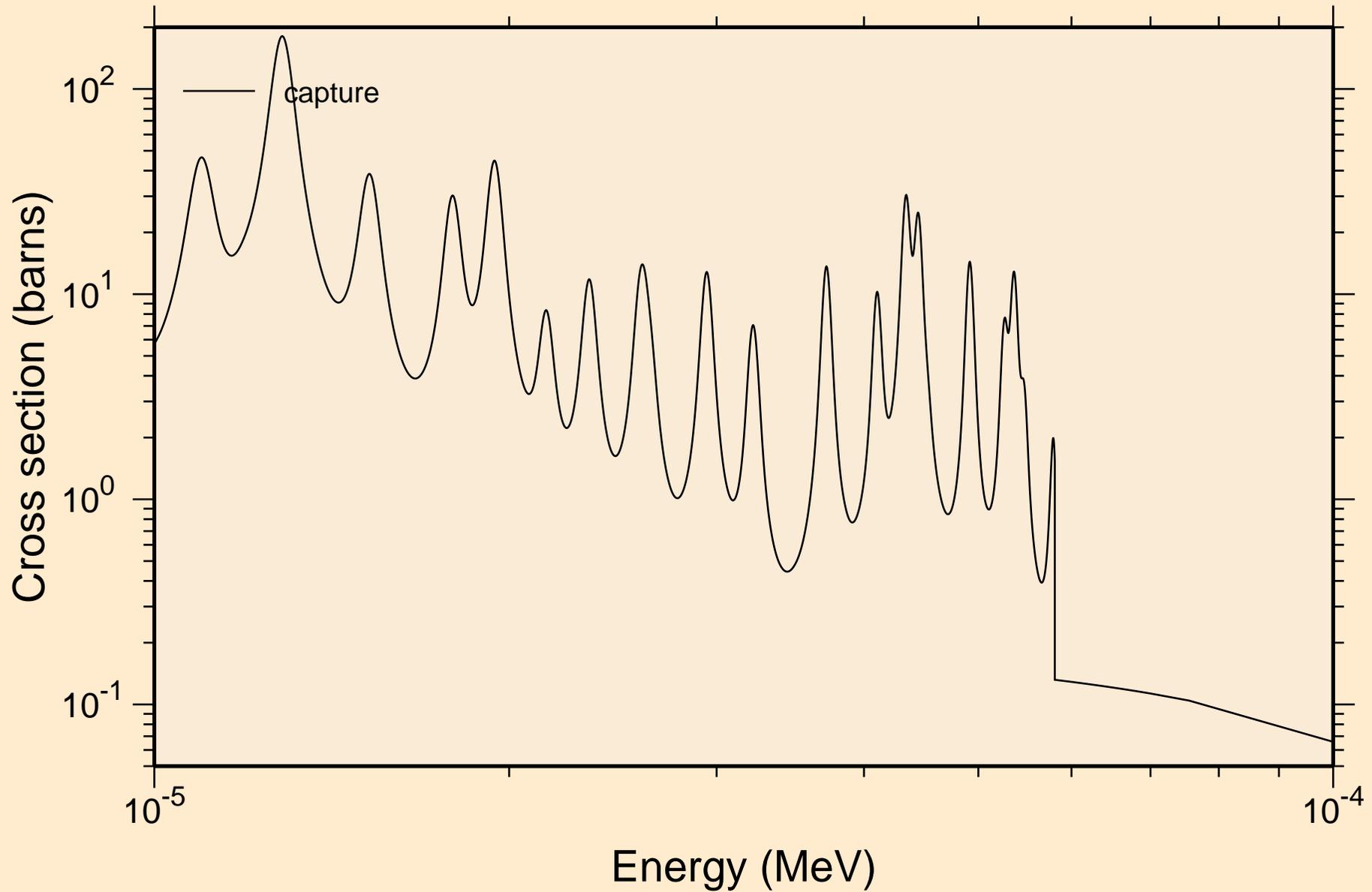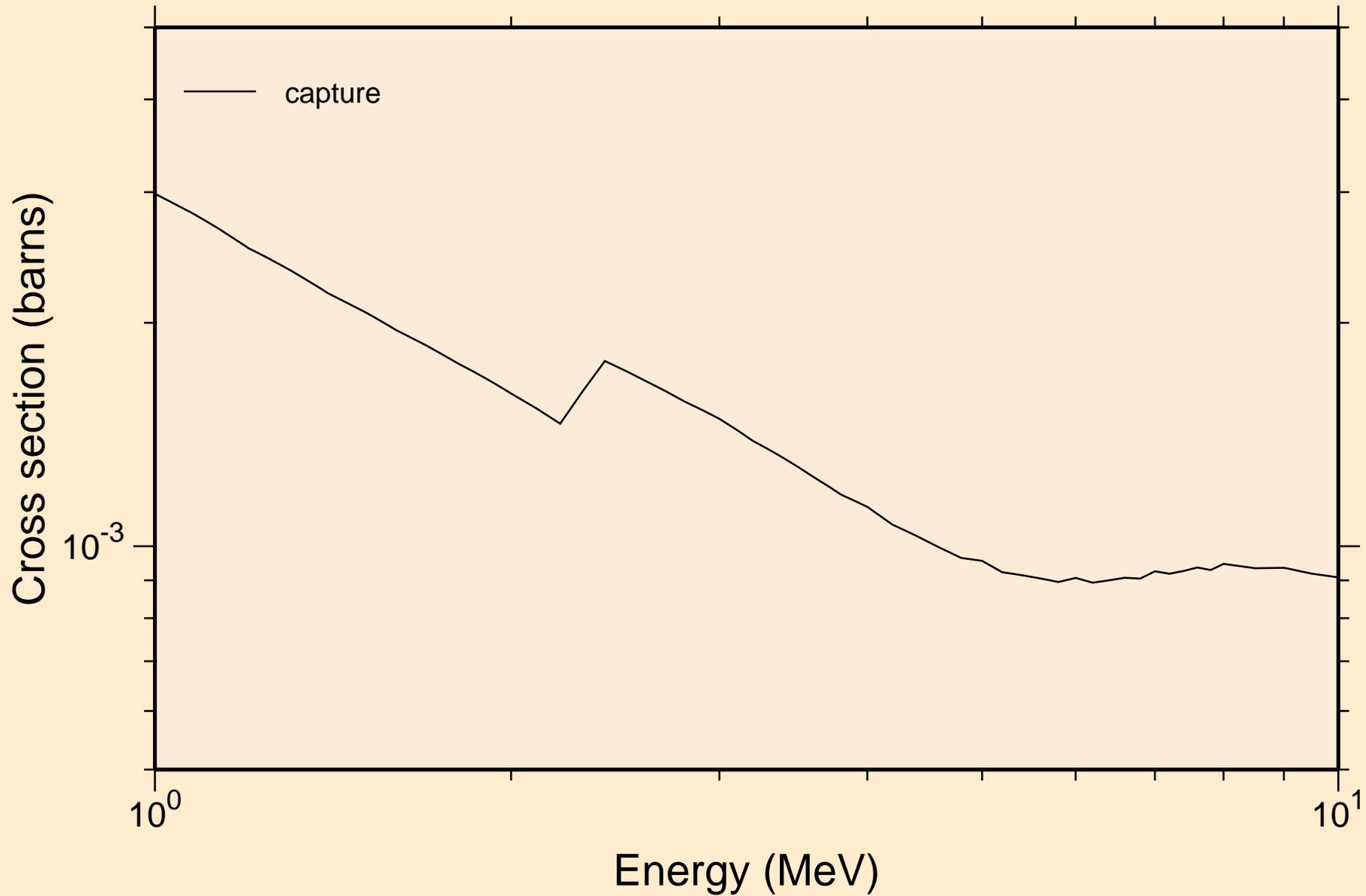
Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
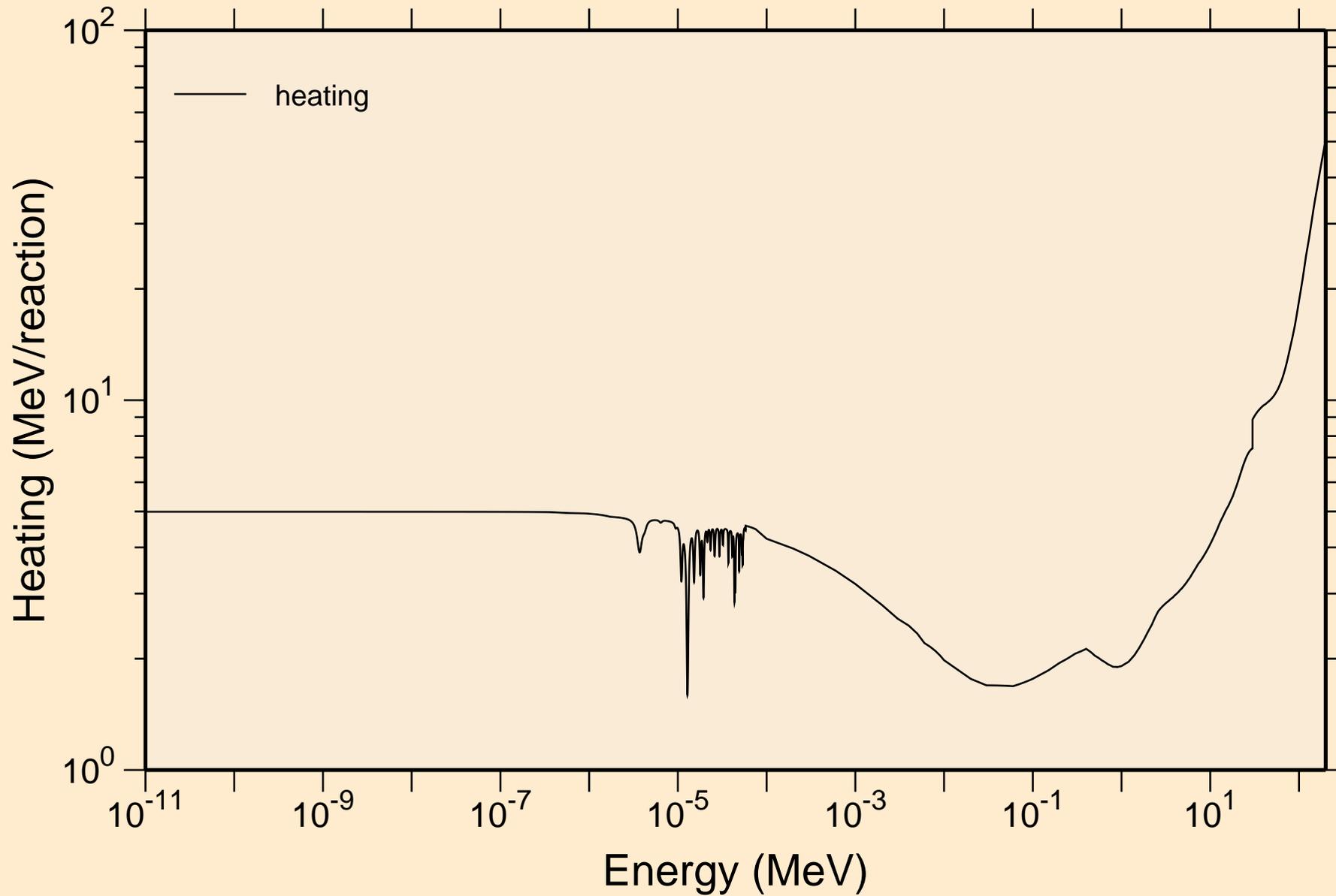resonance absorption cross sections

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
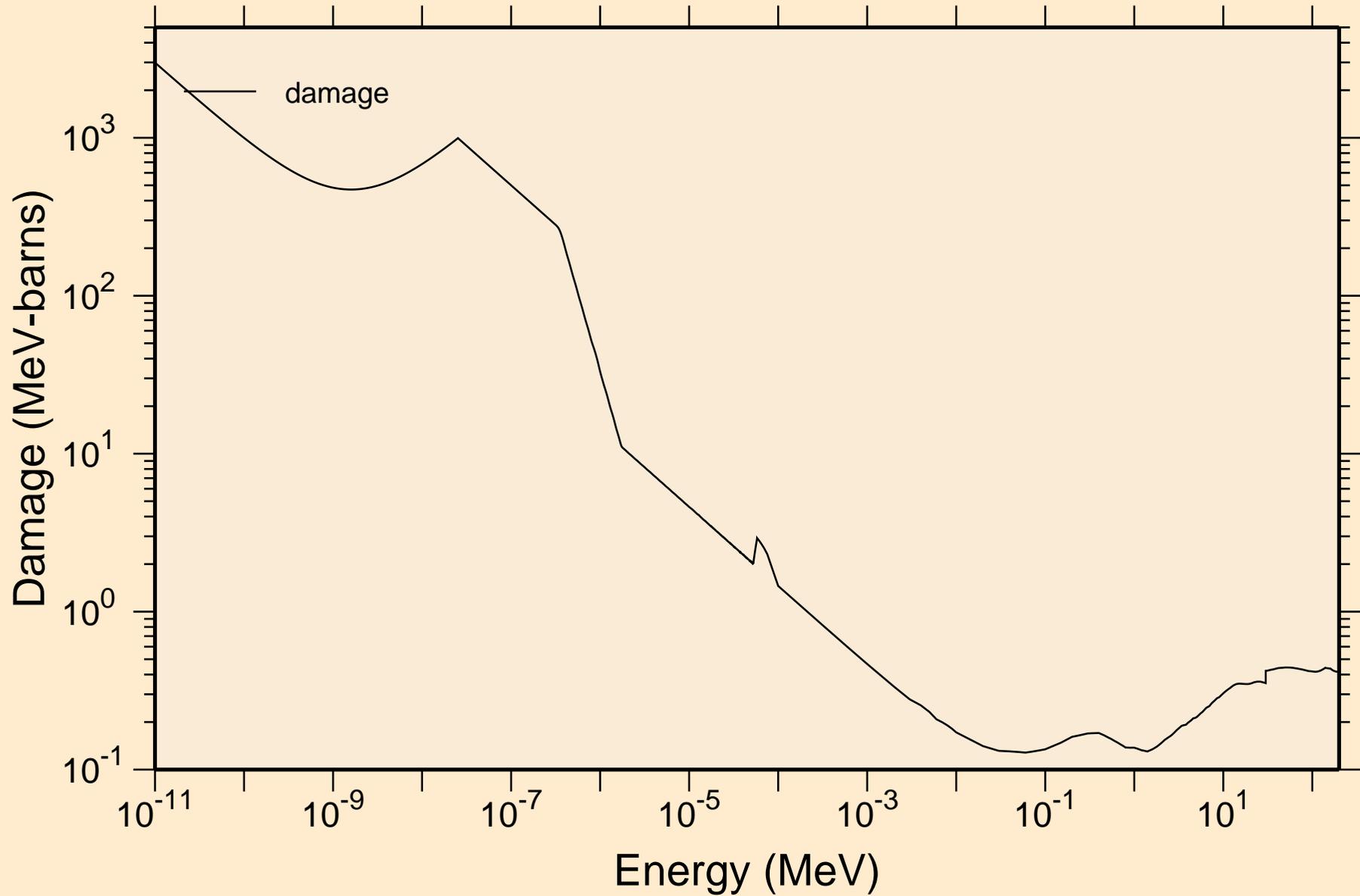resonance absorption cross sections

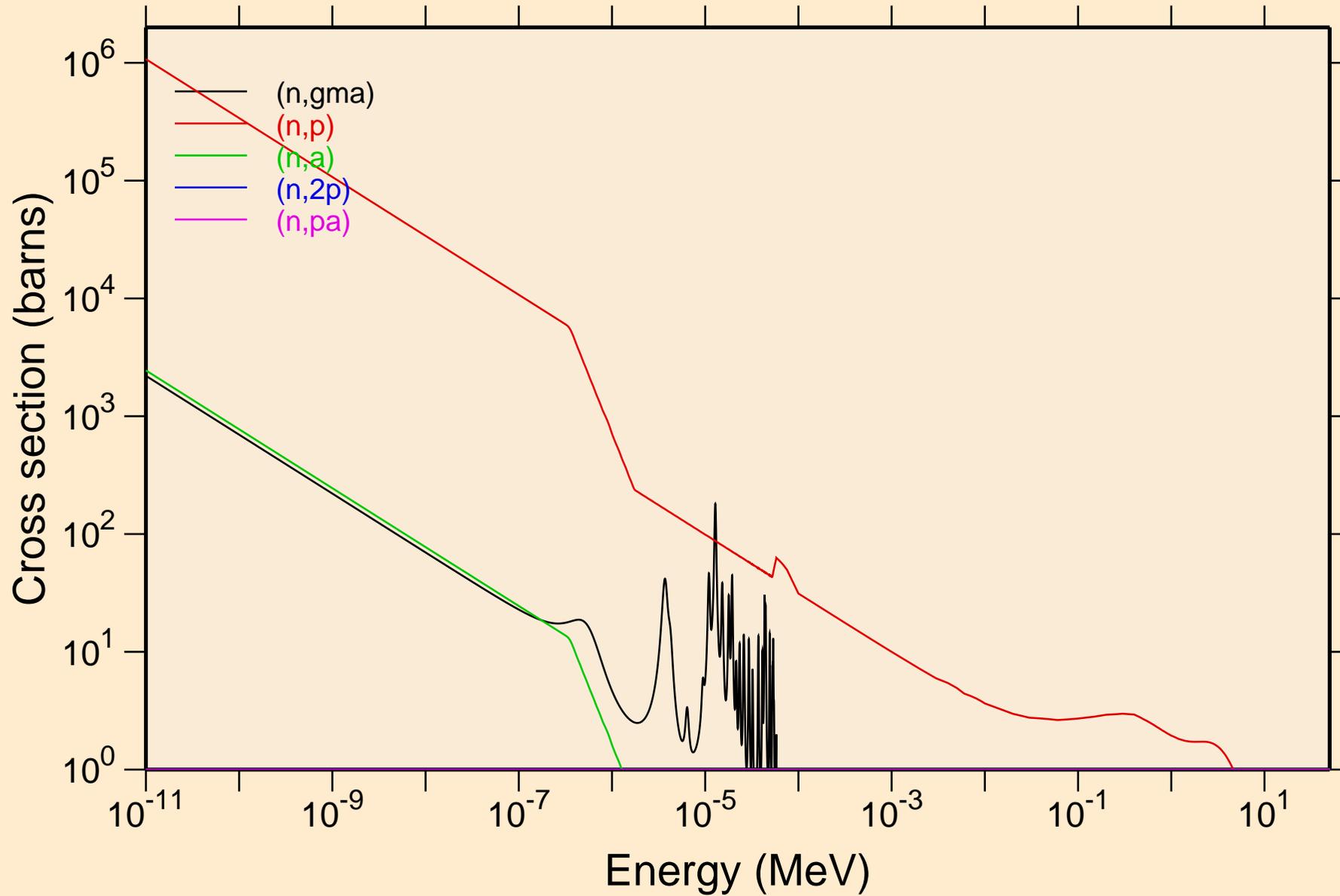Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Heating

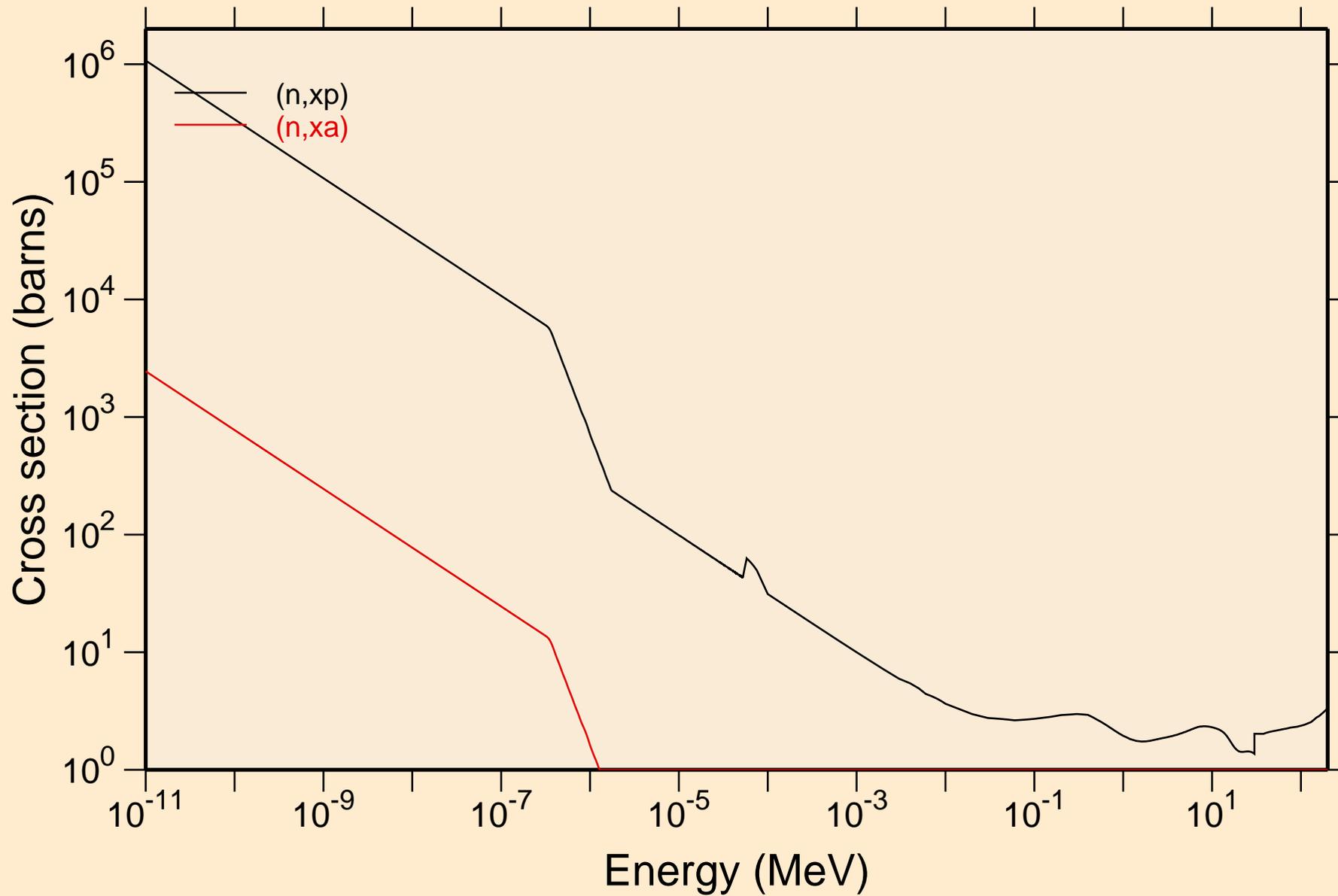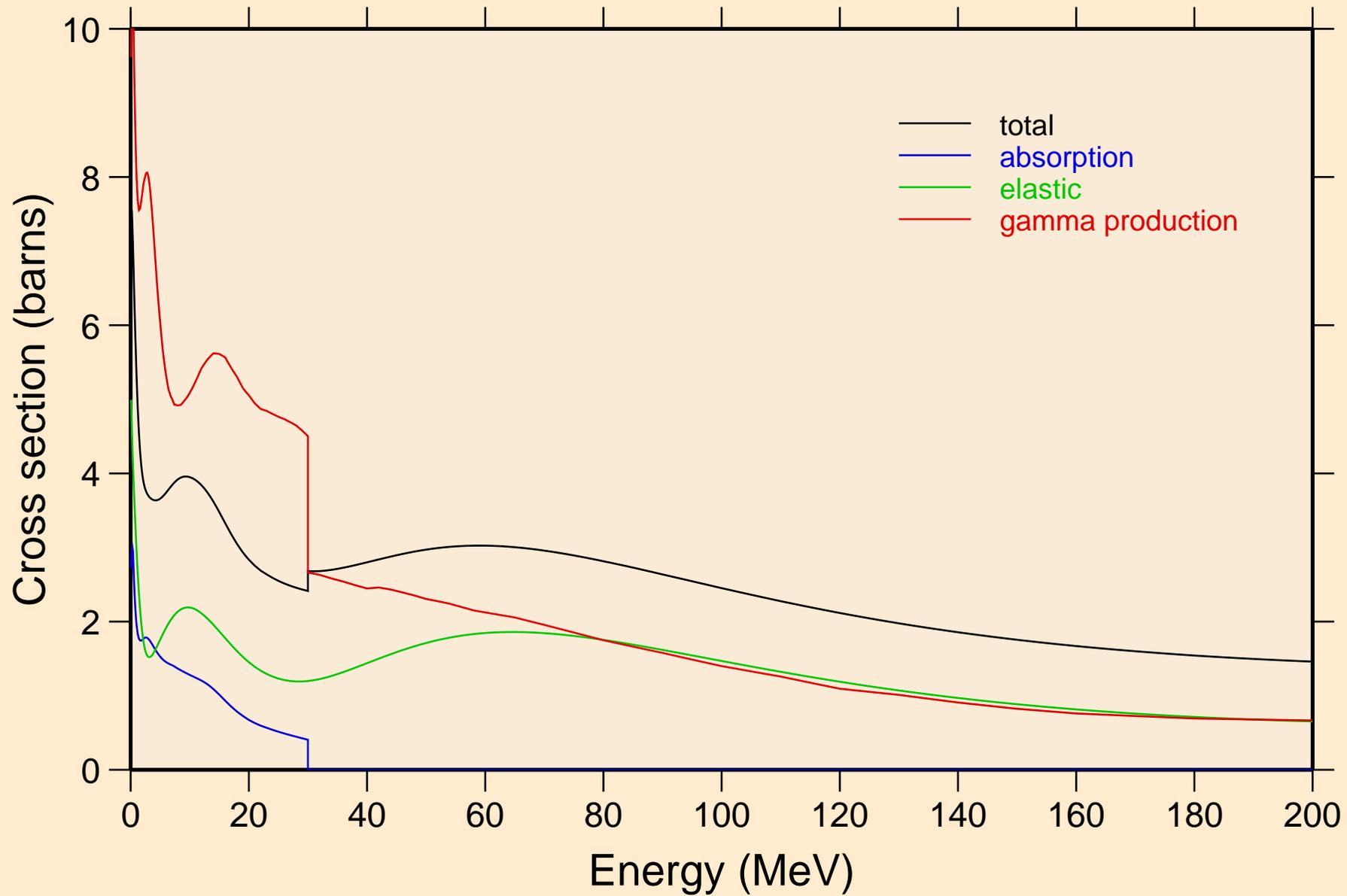Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Damage

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Non-threshold reactions

Legend:
- (n,gma)
- (n,p)
- (n,a)
- (n,2p)
- (n,pa)

Cross section (barns) vs Energy (MeV)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Non-threshold reactions

(n,xp)
(n,xa)

Cross section (barns)

Energy (MeV)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
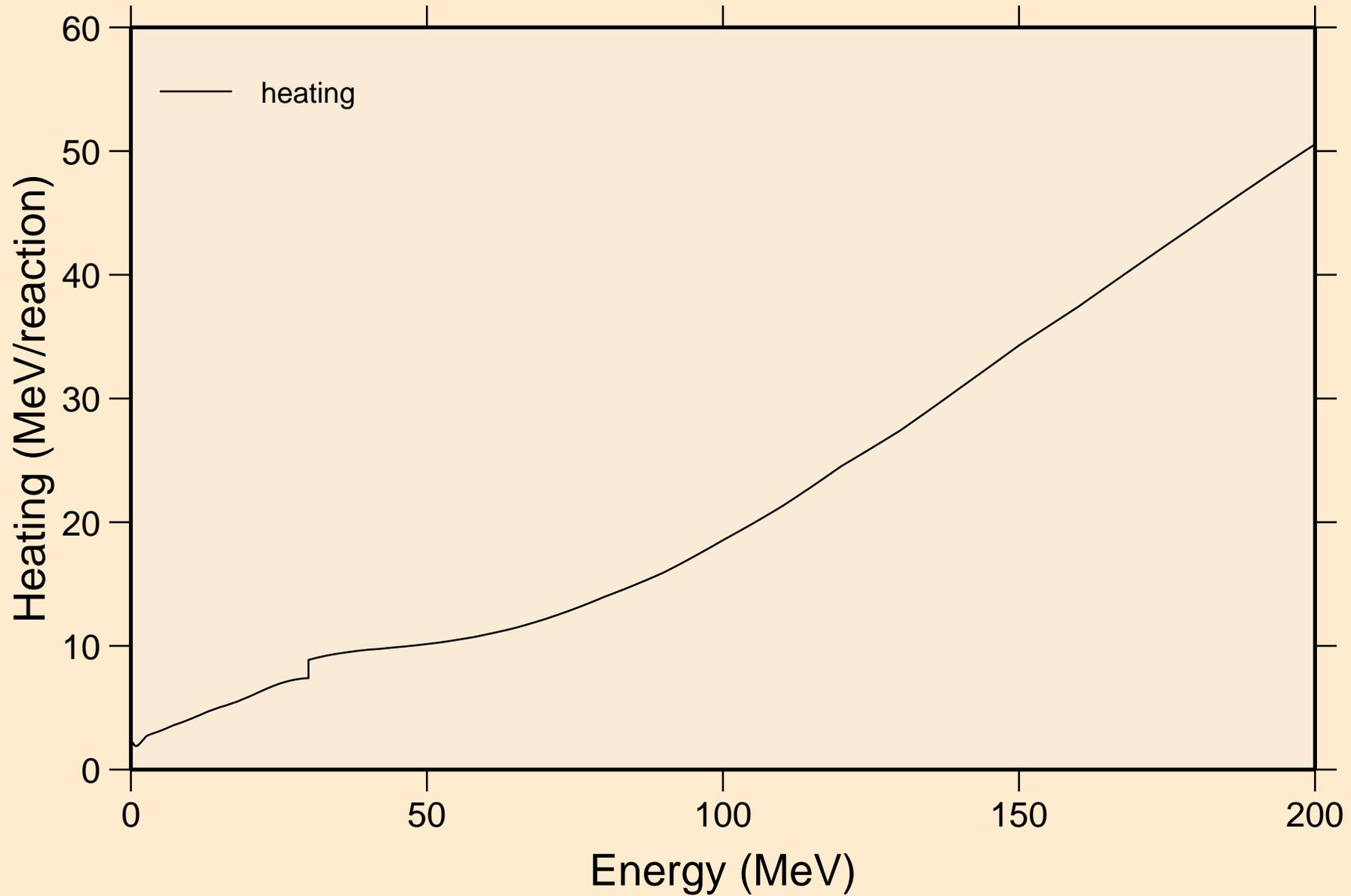Principal cross sections

total
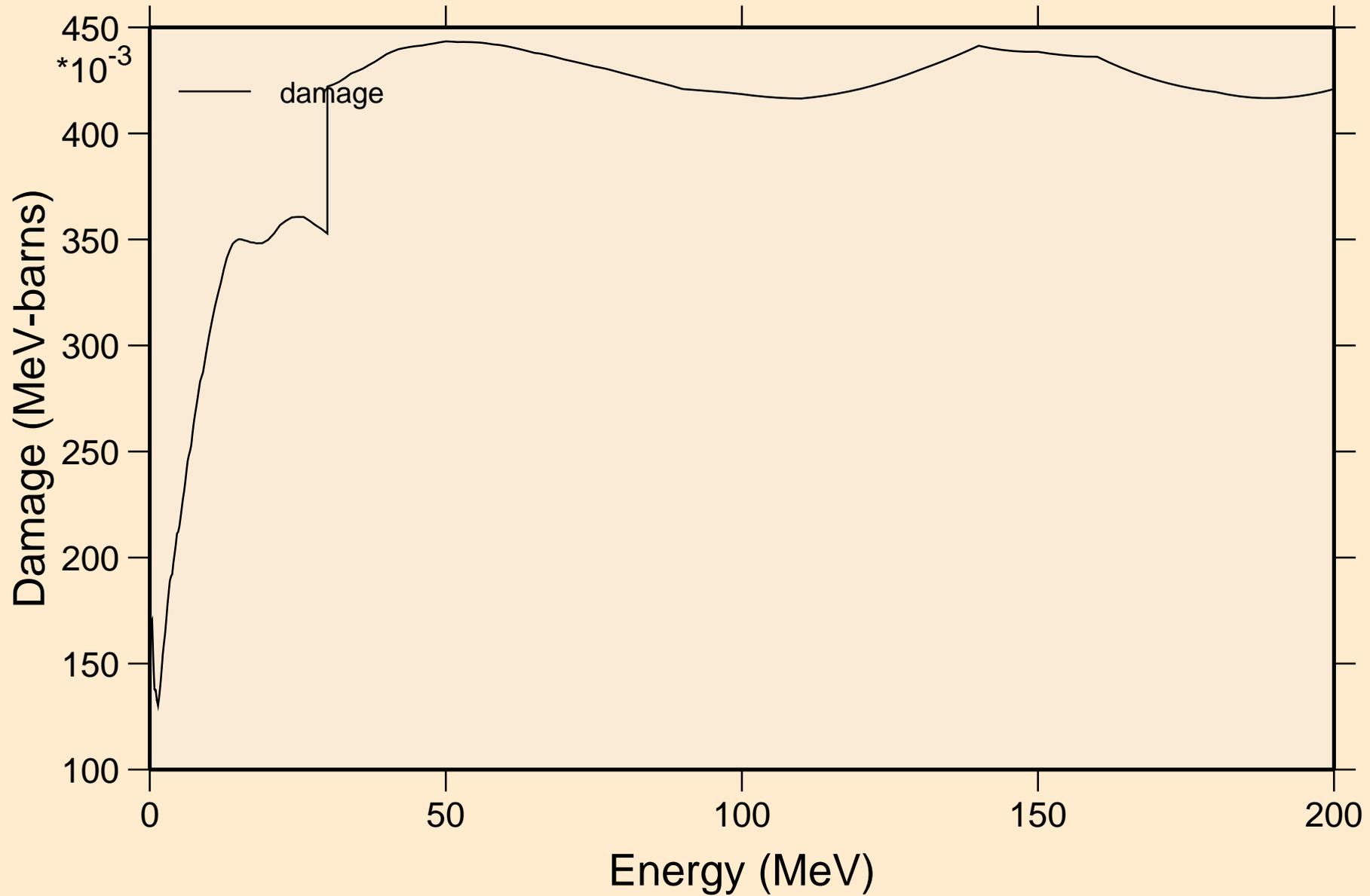absorption
elastic
gamma production

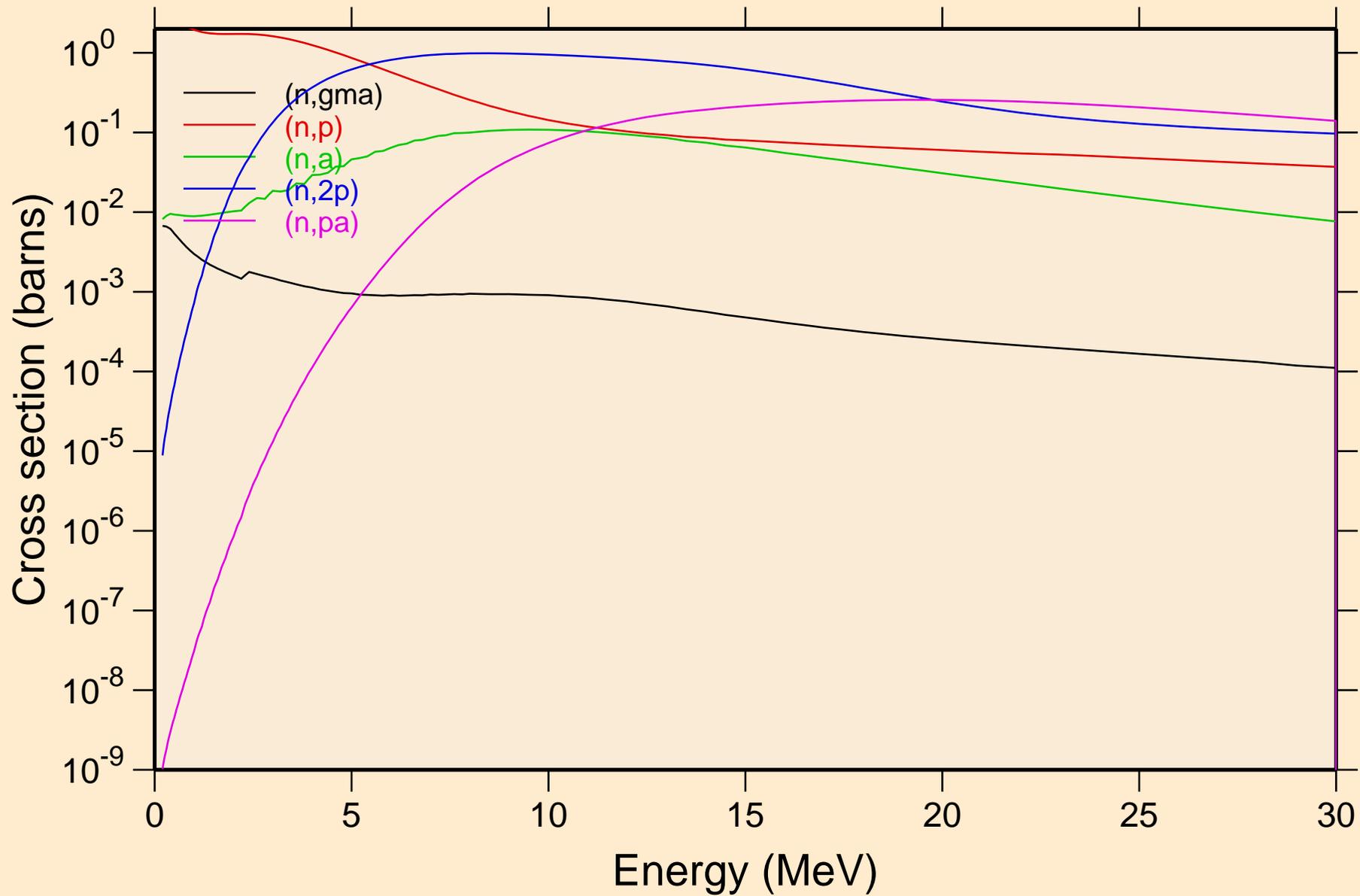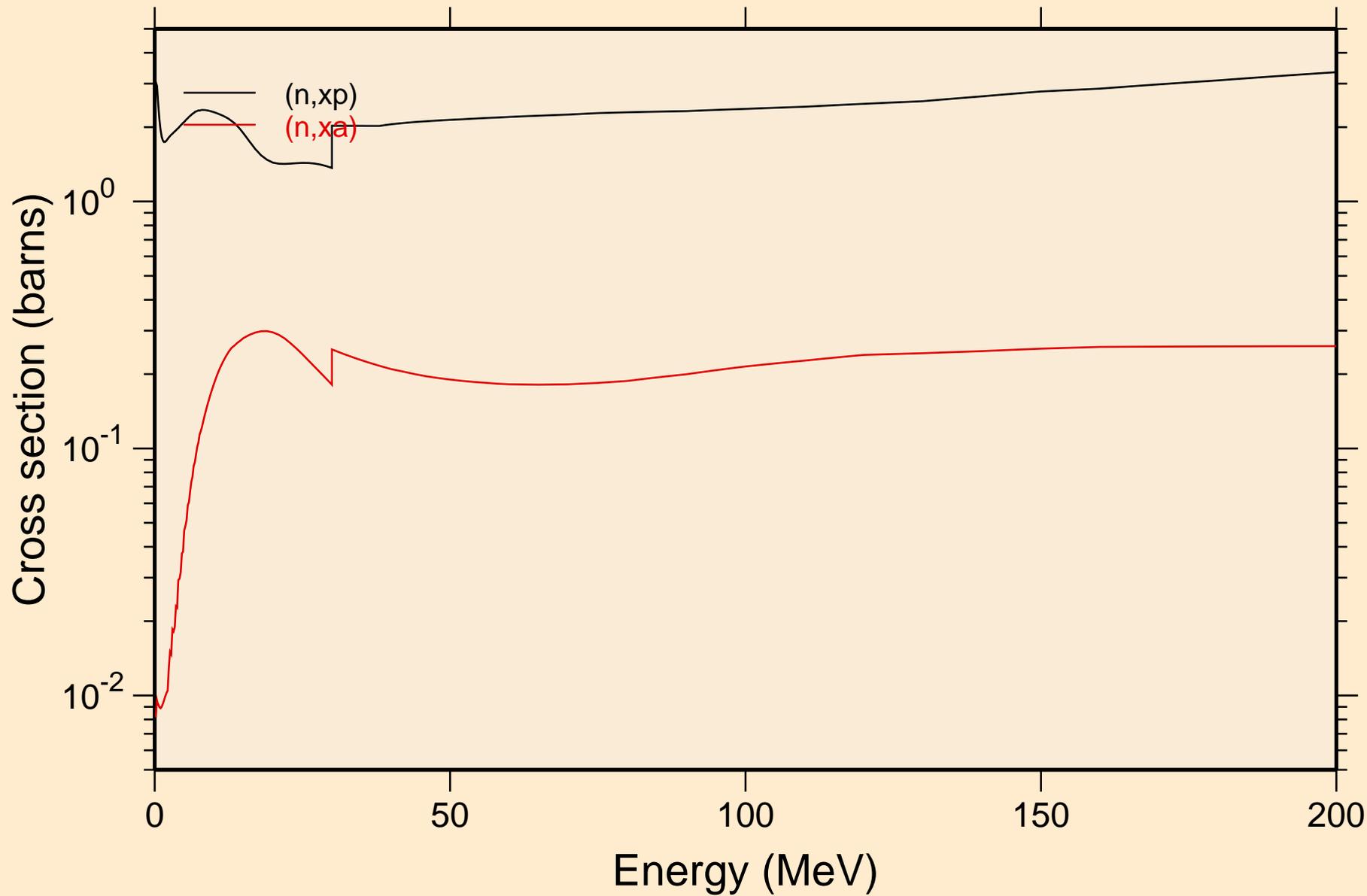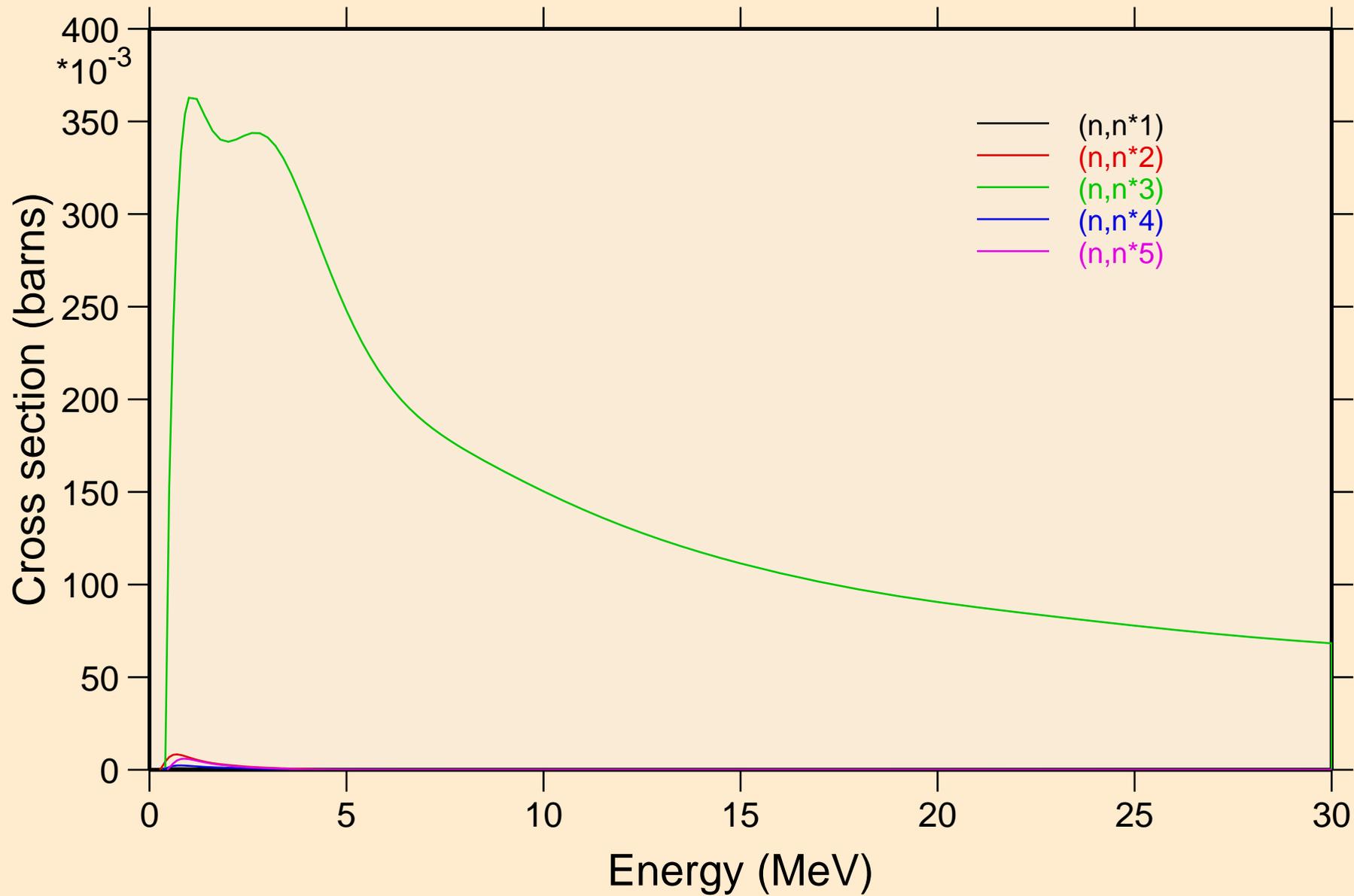Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Heating

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Damage

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Non-threshold reactions

- (n,gma)
- (n,p)
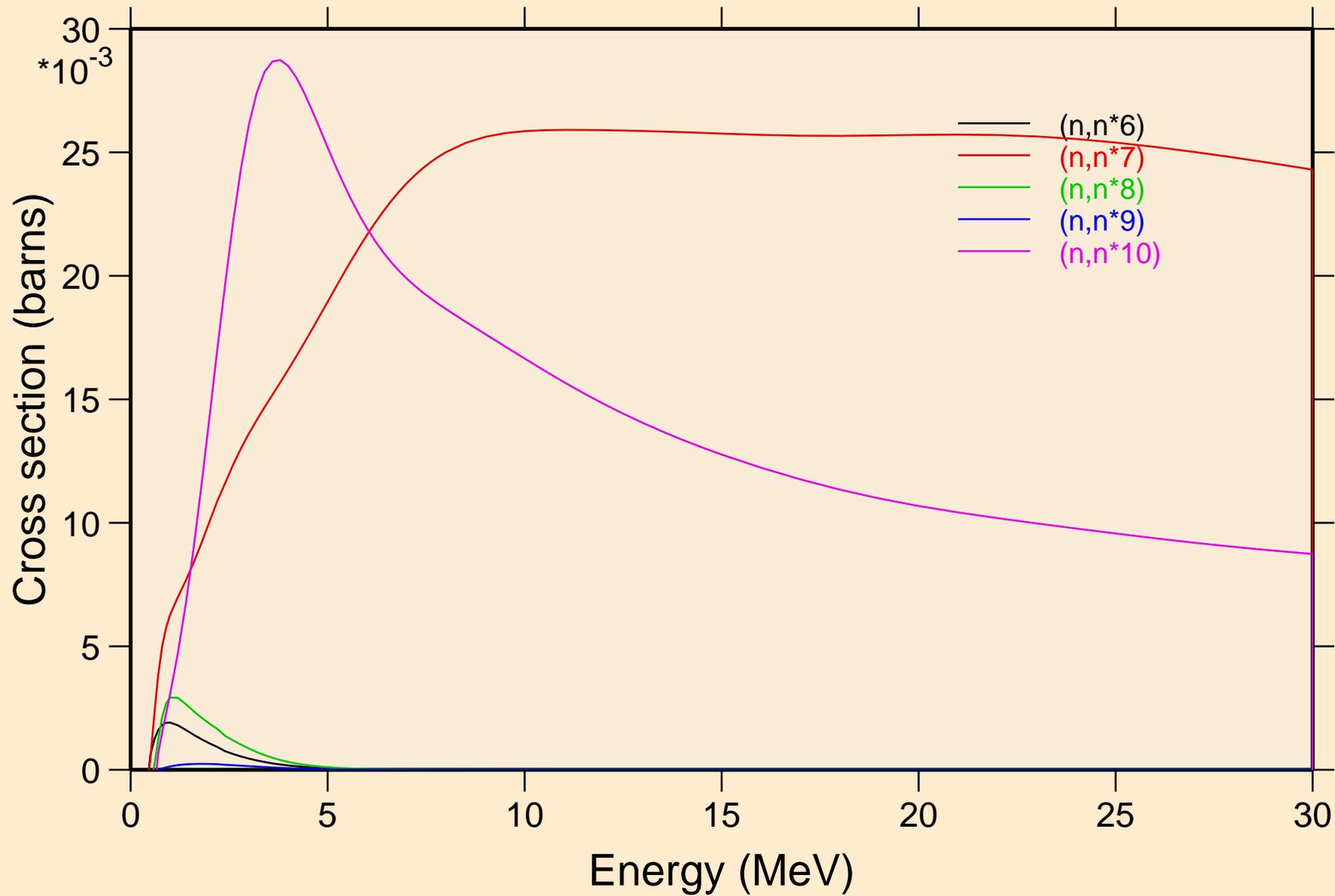- (n,a)
- (n,2p)
- (n,pa)

Cross section (barns) vs Energy (MeV)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
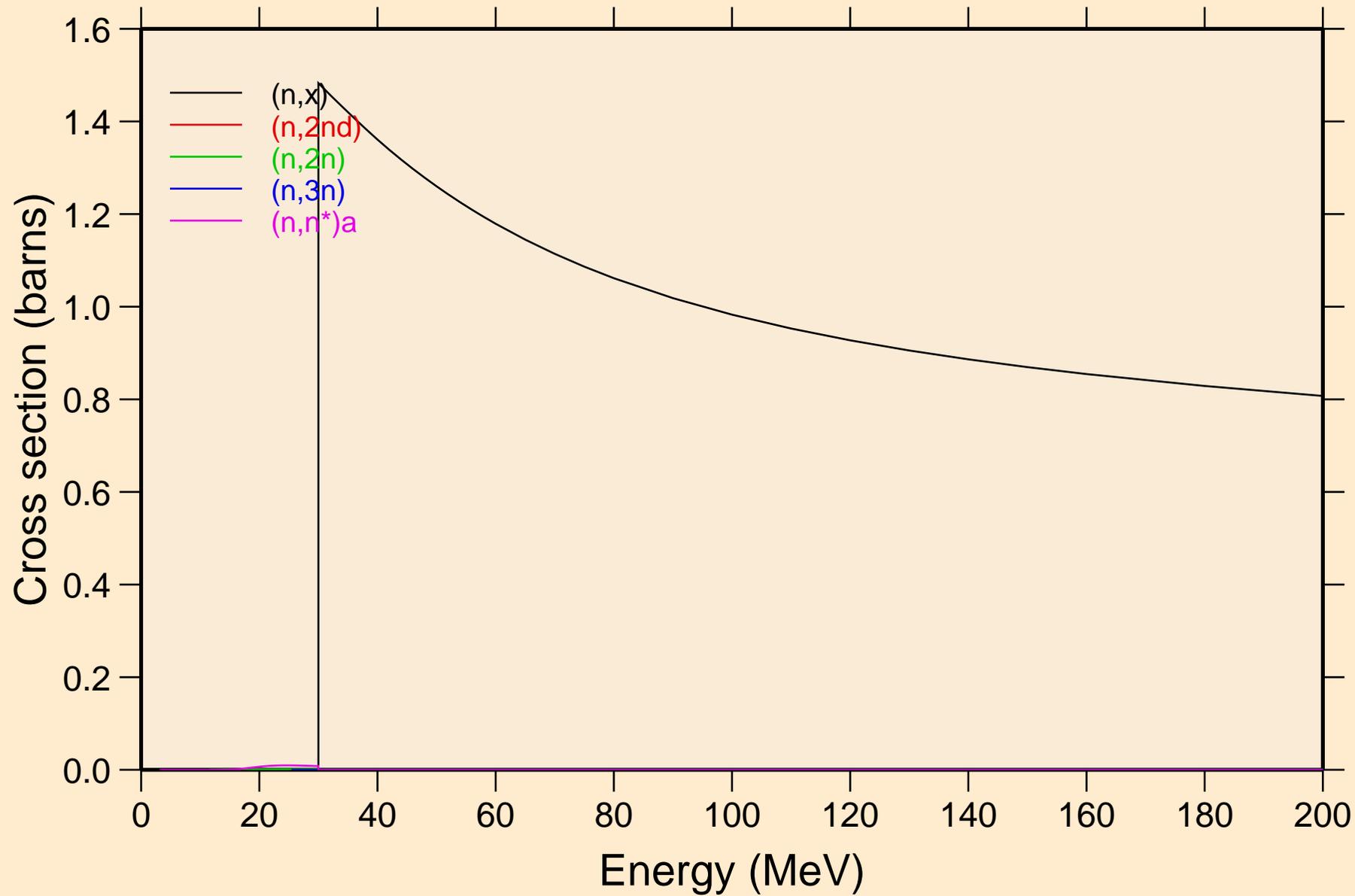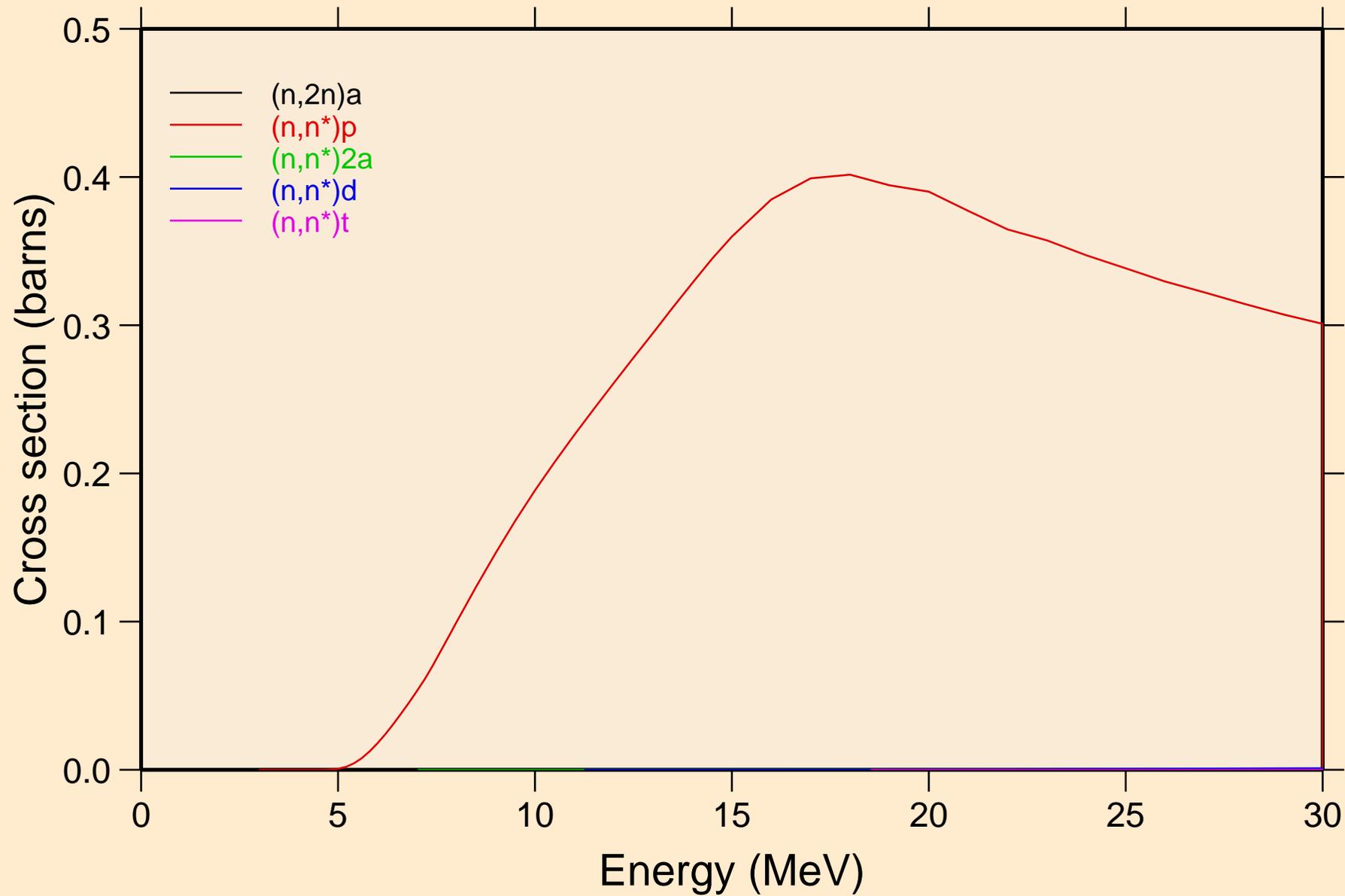Non-threshold reactions

(n,xp)
(n,xa)

Cross section (barns)

Energy (MeV)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Inelastic levels

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Inelastic levels

Legend:
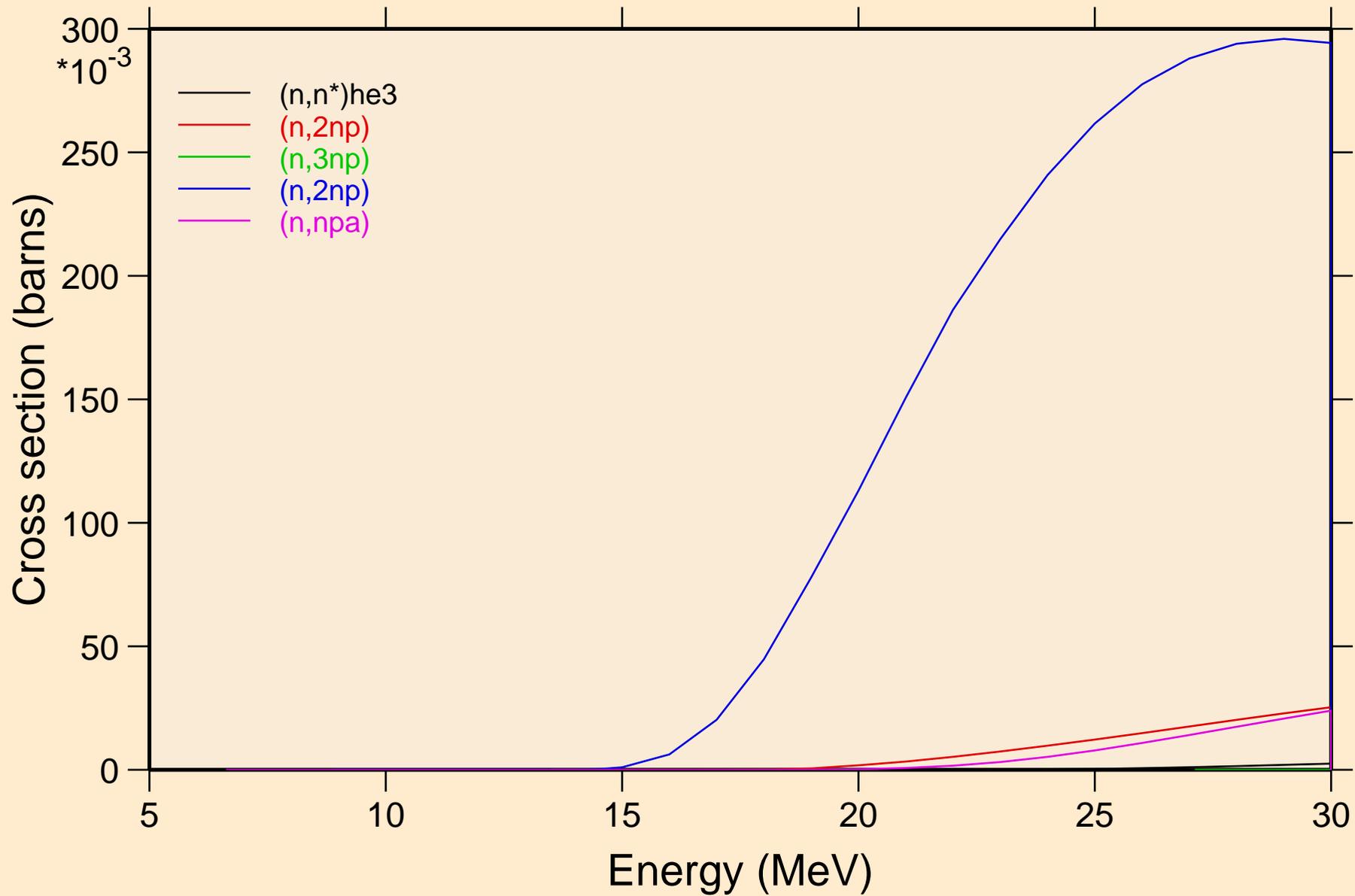- (n,n*6) — black
- (n,n*7) — red
- (n,n*8) — green
- (n,n*9) — blue
- (n,n*10) — magenta

Y-axis: Cross section (barns) $\times 10^{-3}$, scale 0 to 30
X-axis: Energy (MeV), scale 0 to 30

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Threshold reactions

Cross section (barns)

Energy (MeV)

(n,x)
(n,2nd)
(n,2n)
(n,3n)
(n,n*)a

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Threshold reactions

Legend:
- (n,2n)a
- (n,n*)p
- (n,n*)2a
- (n,n*)d
- (n,n*)t

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

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Threshold reactions

Legend:
- (n,n*)he3
- (n,2np)
- (n,3np)
- (n,2np)
- (n,npa)

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

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Threshold reactions

Legend:
- (n,n*c) — black
- (n,d) — red
- (n,t) — green
- (n,he3) — blue
- (n,2a) — magenta

Y-axis: Cross section (barns), ×10⁻³, scale 0 to 120
X-axis: Energy (MeV), scale 0 to 30

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Threshold reactions

- (n,3a)
- (n,pd)
- (n,pt)
- (n,da)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Threshold reactions

- (n,xd)
- (n,xt)
- (n,xhe3)

Cross section (barns) vs Energy (MeV)
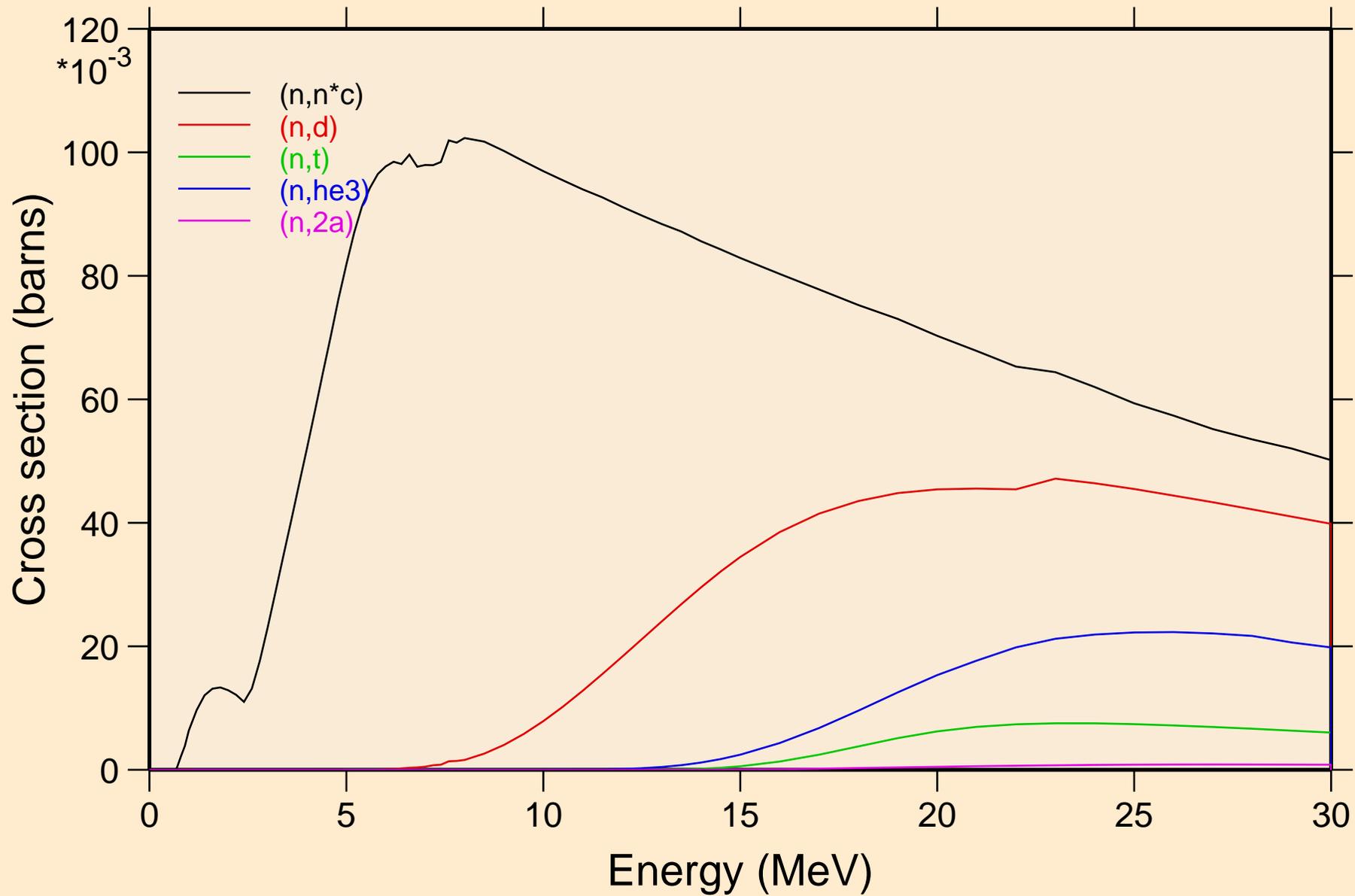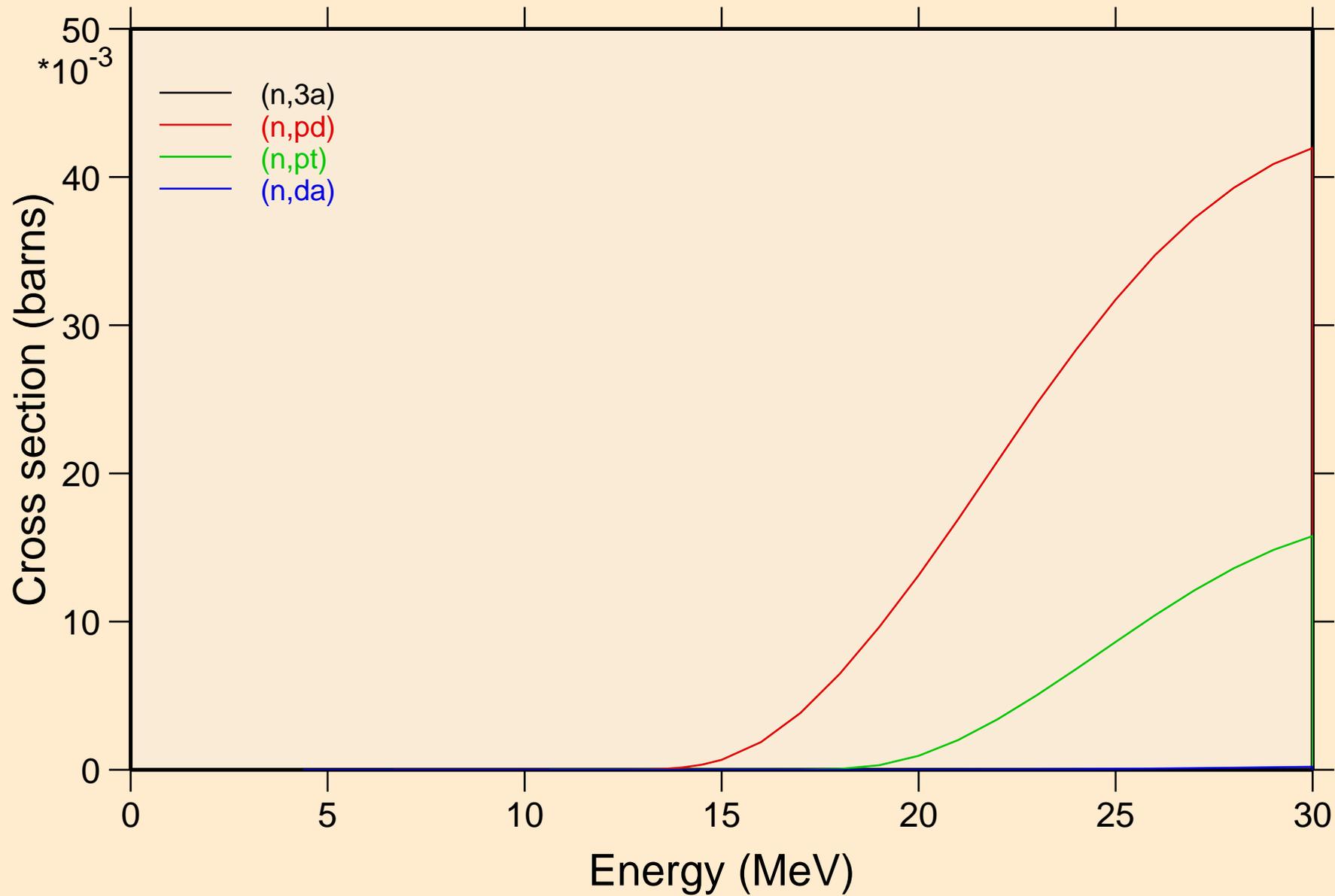
Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
angular distribution for elastic

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
angular distribution for elastic
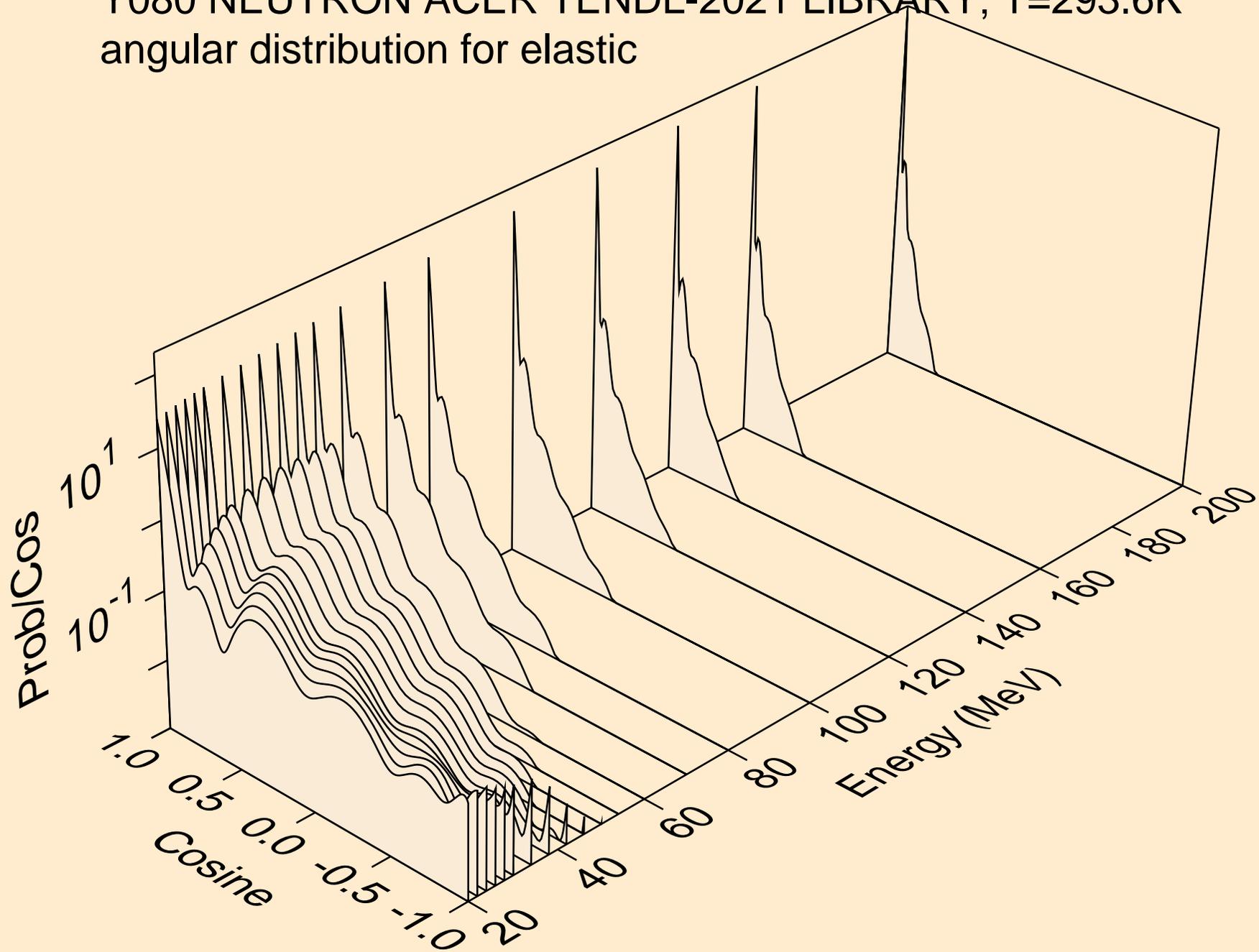
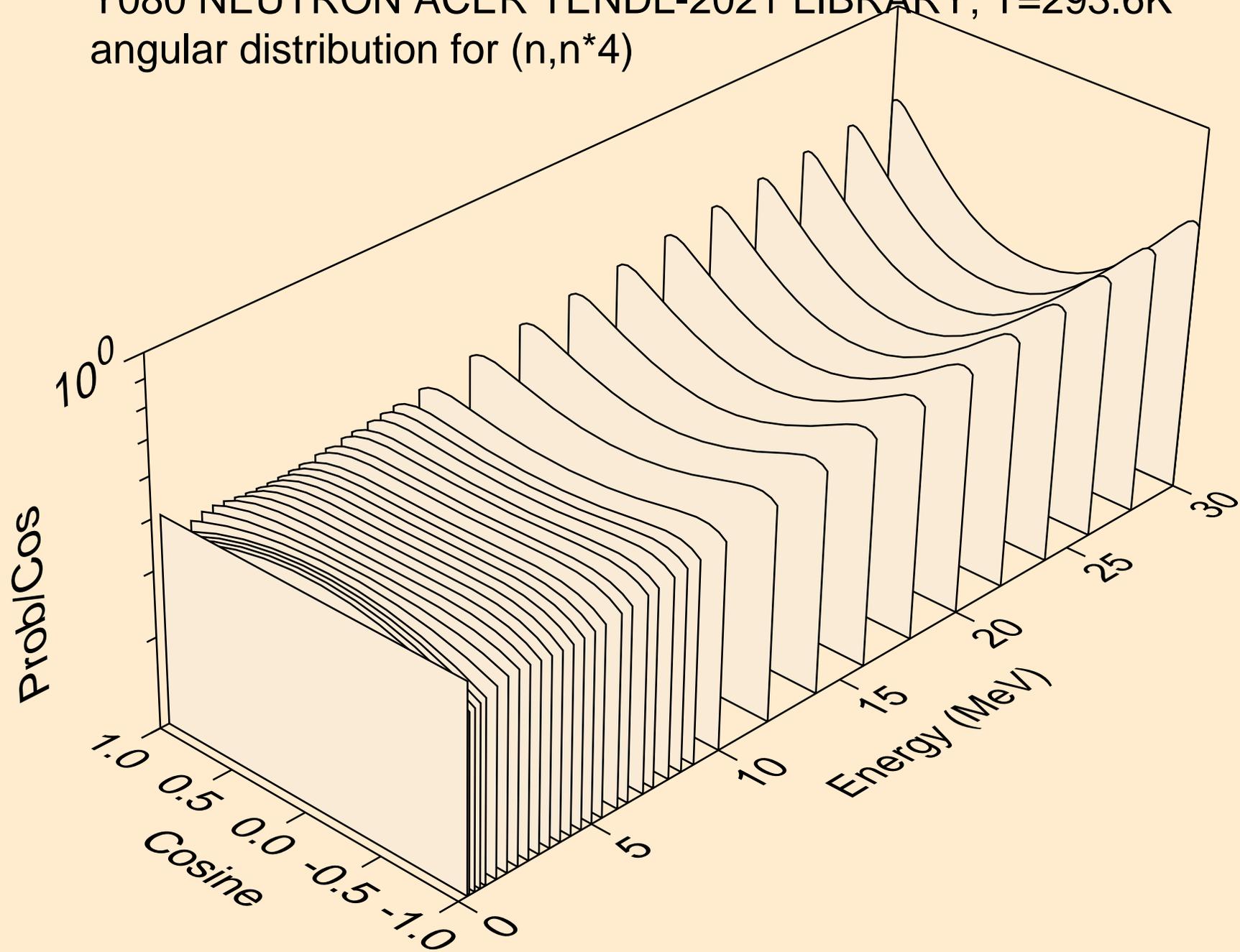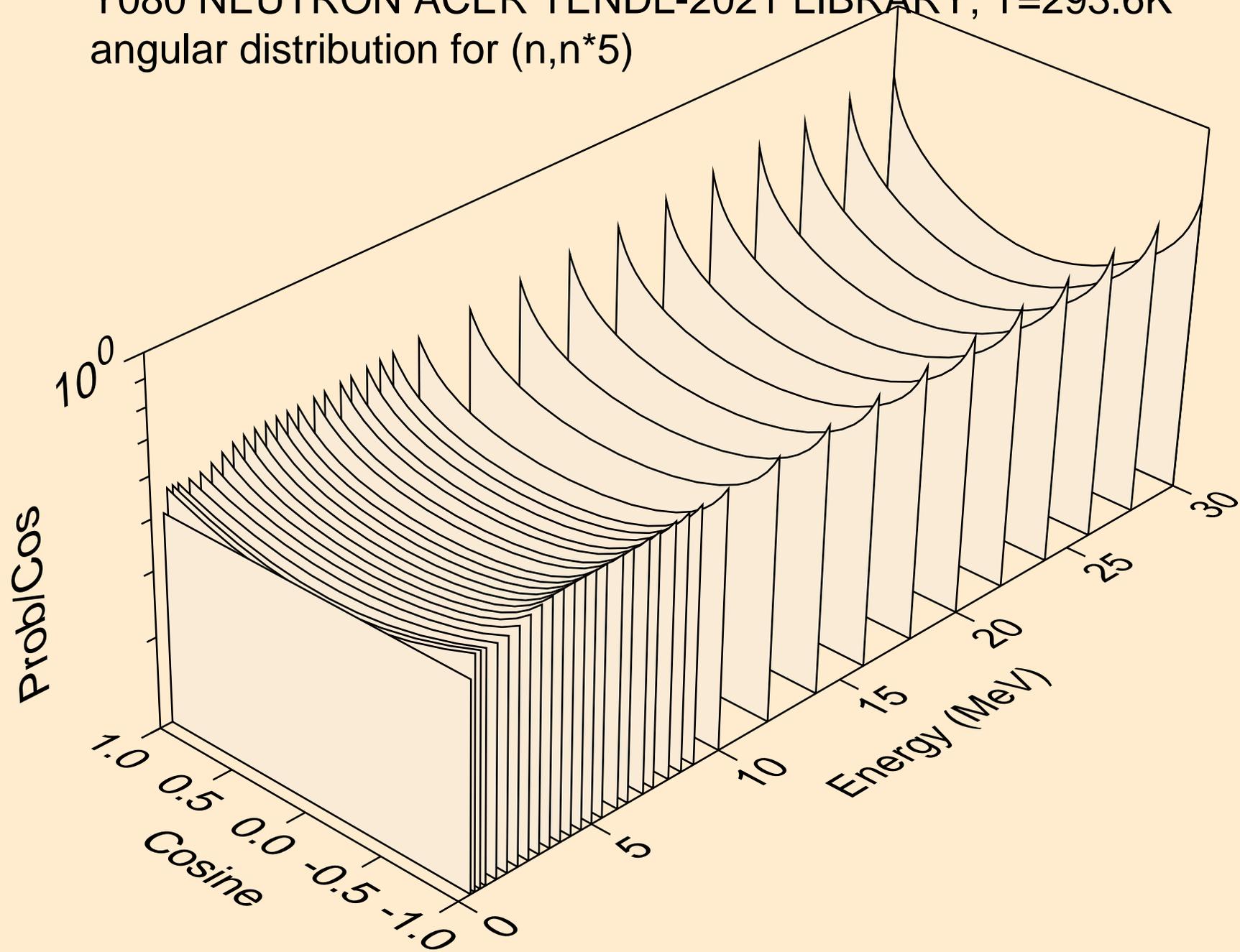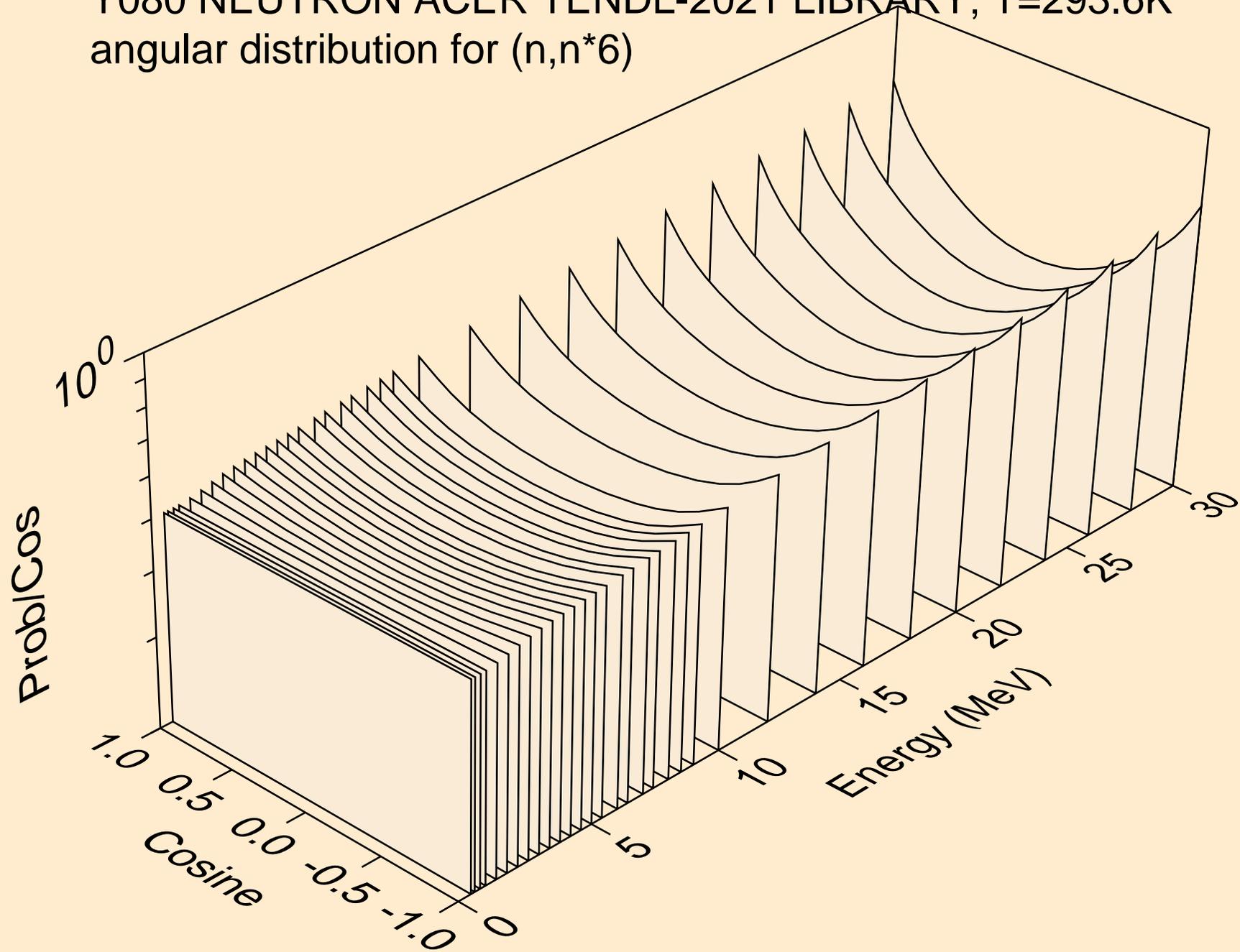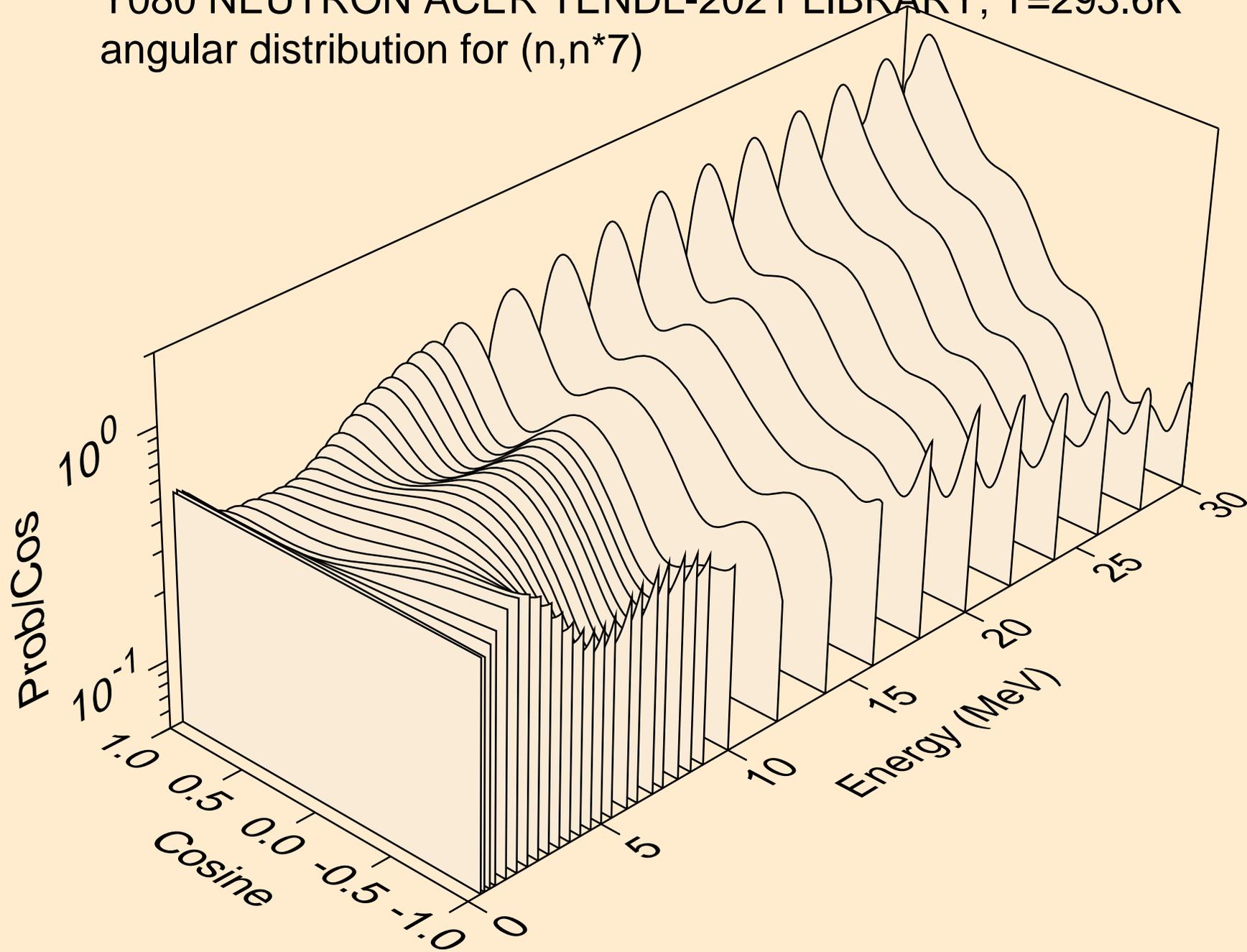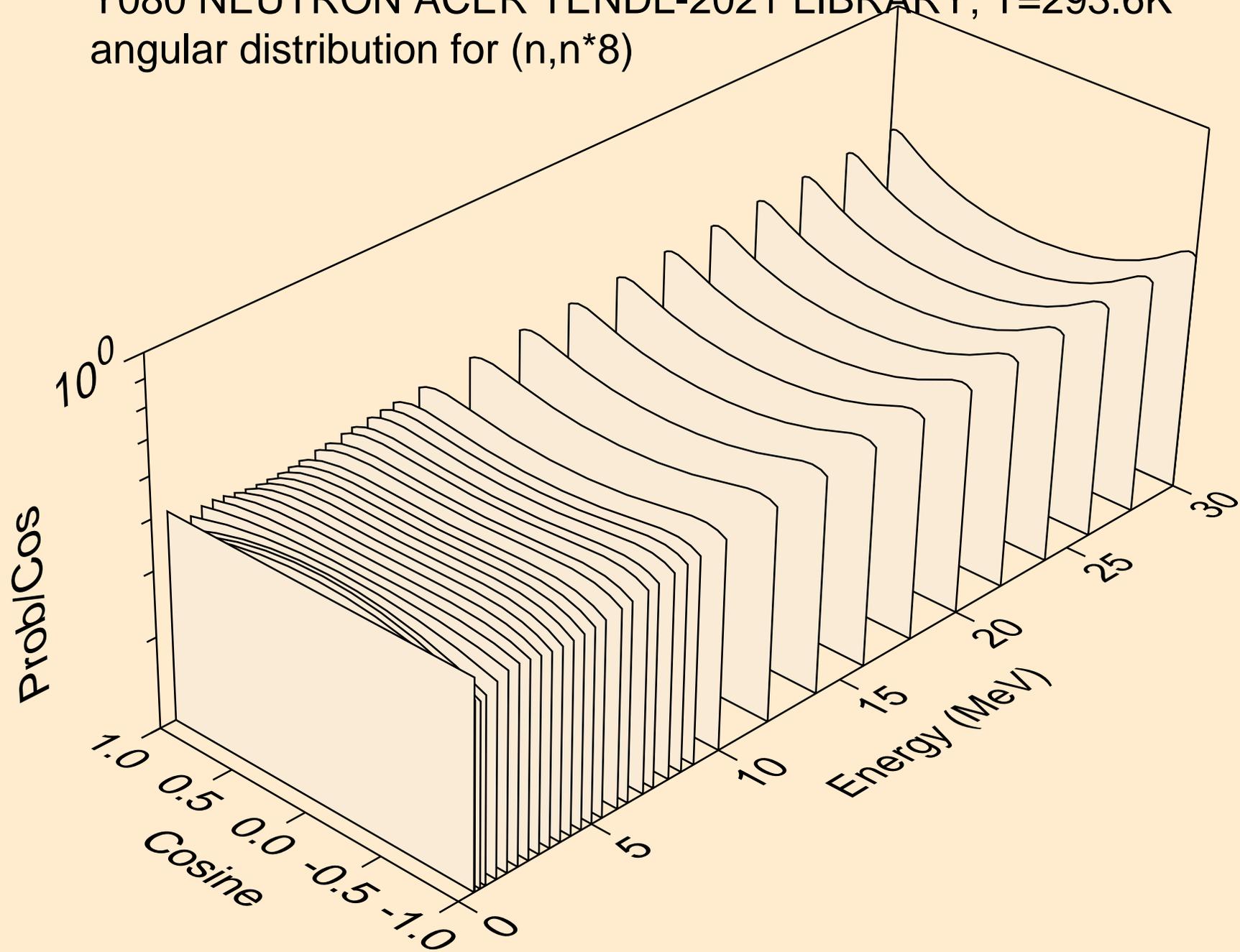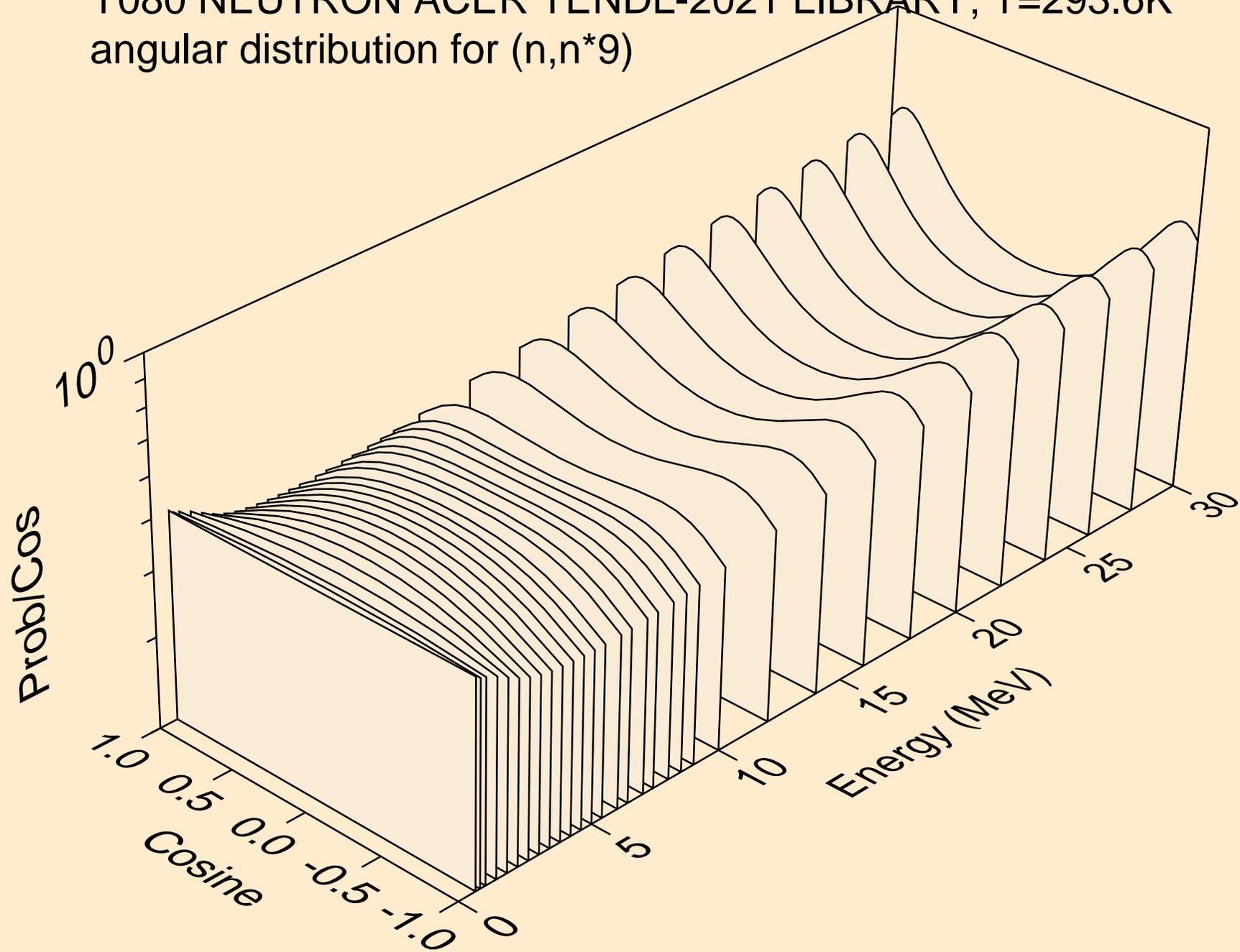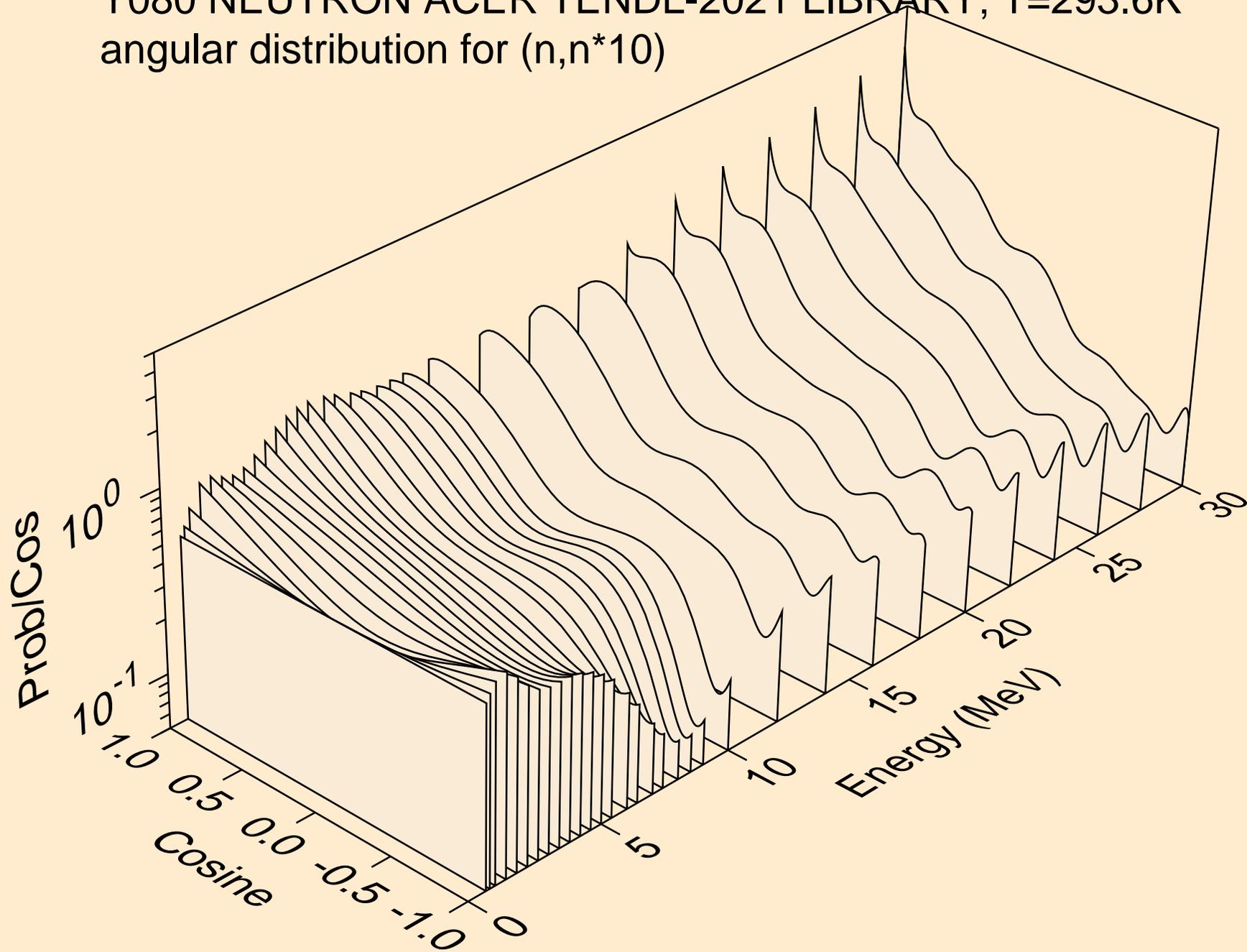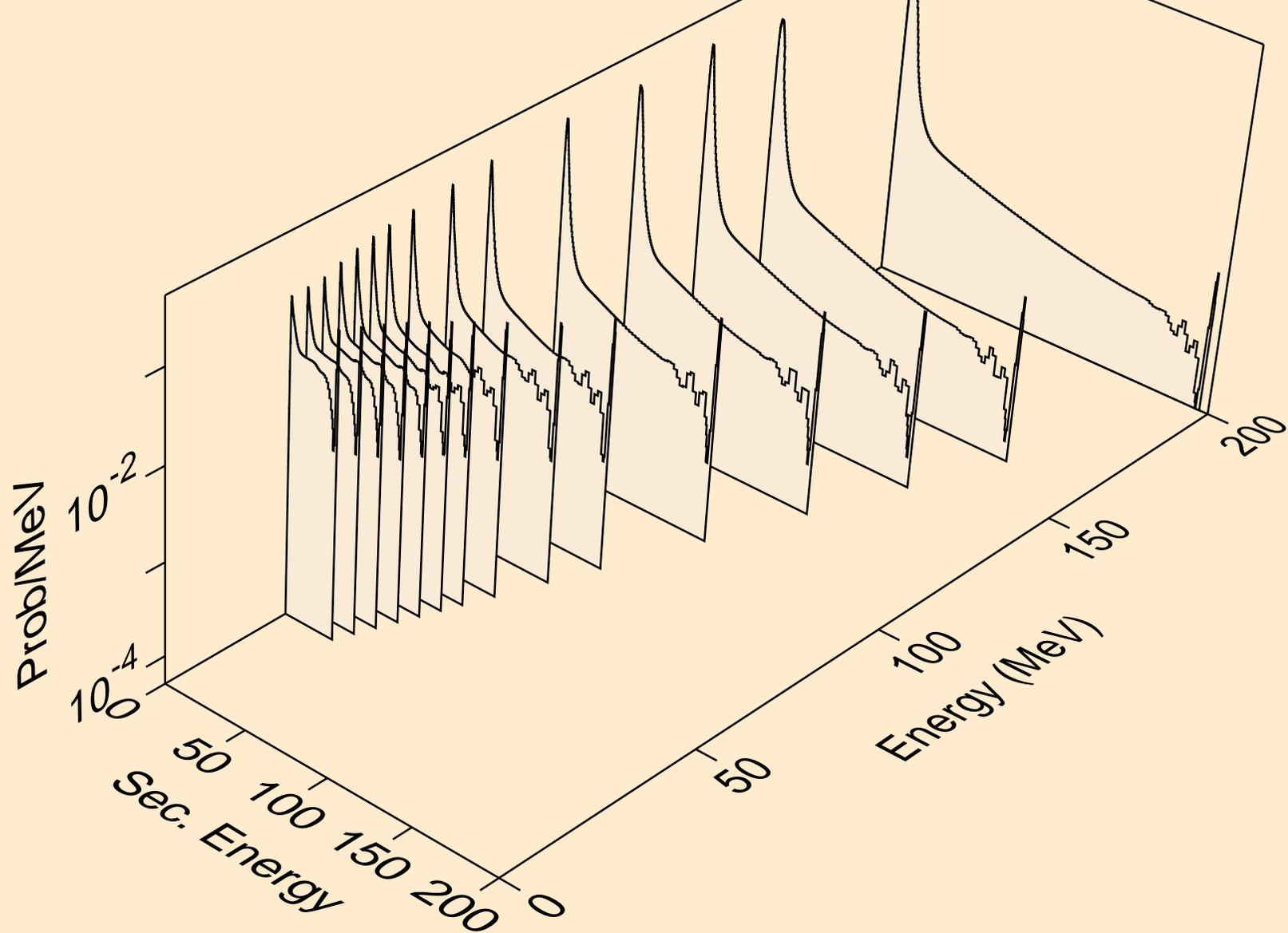Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
angular distribution for (n,n*1)
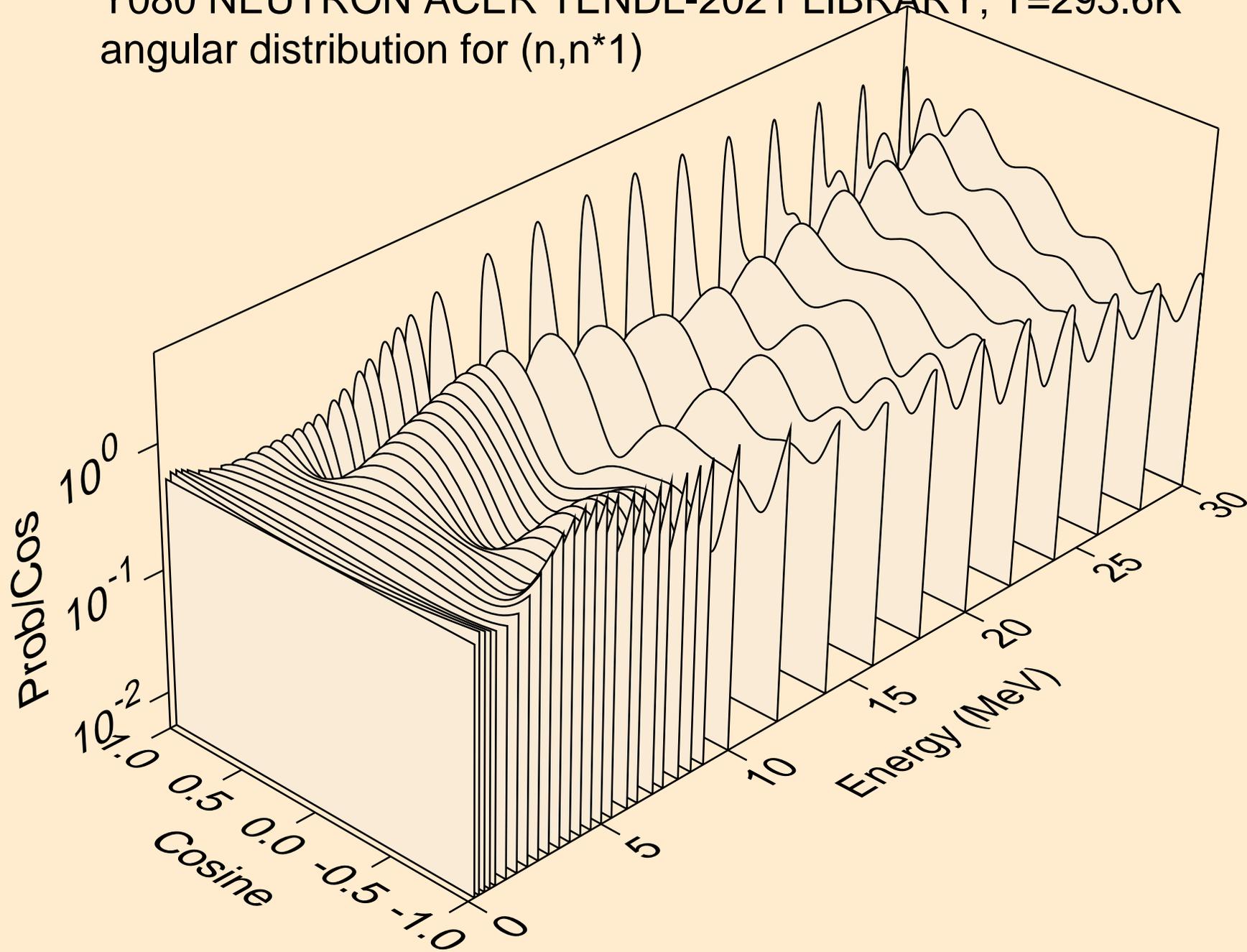
Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
angular distribution for (n,n*2)
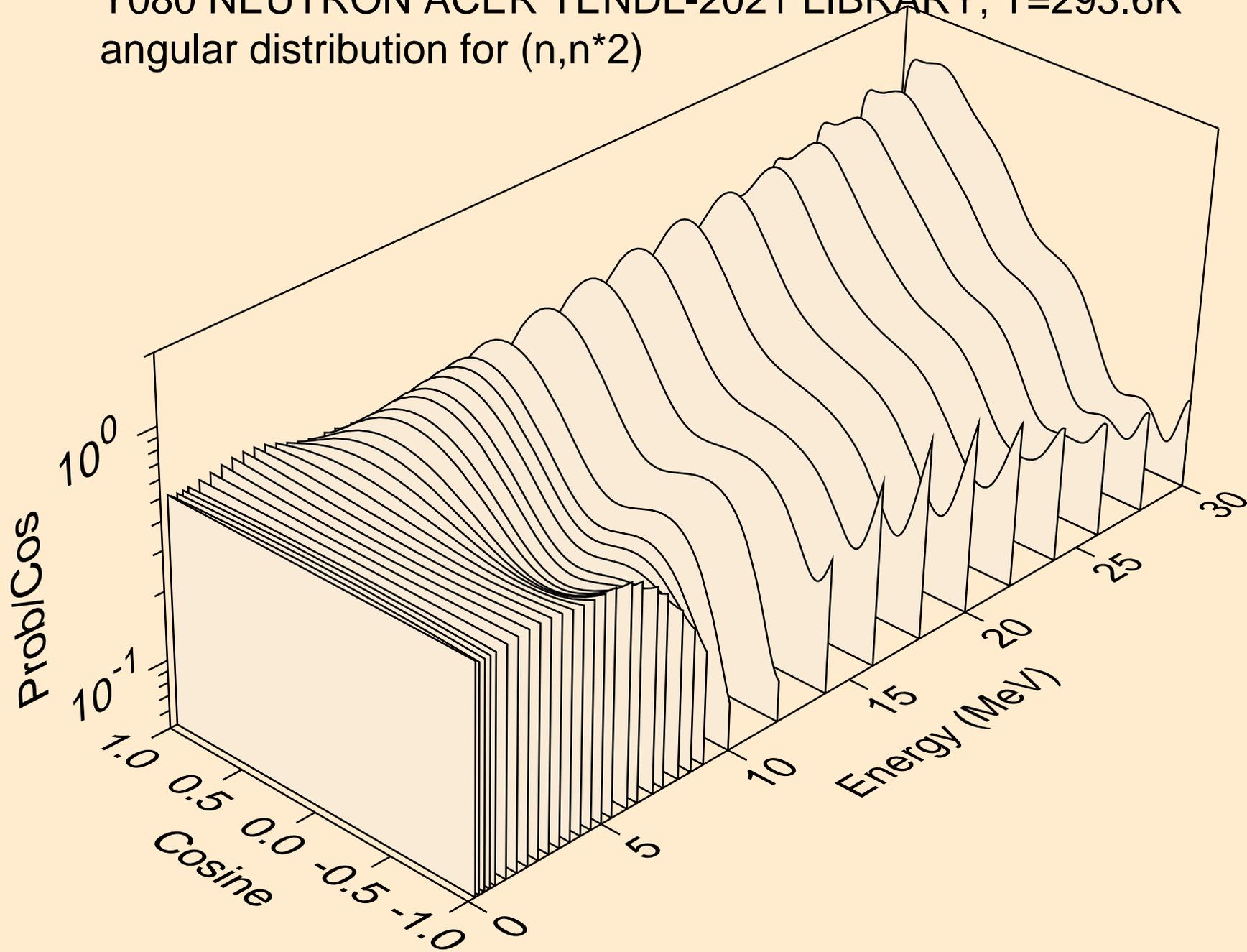
Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
angular distribution for (n,n*3)
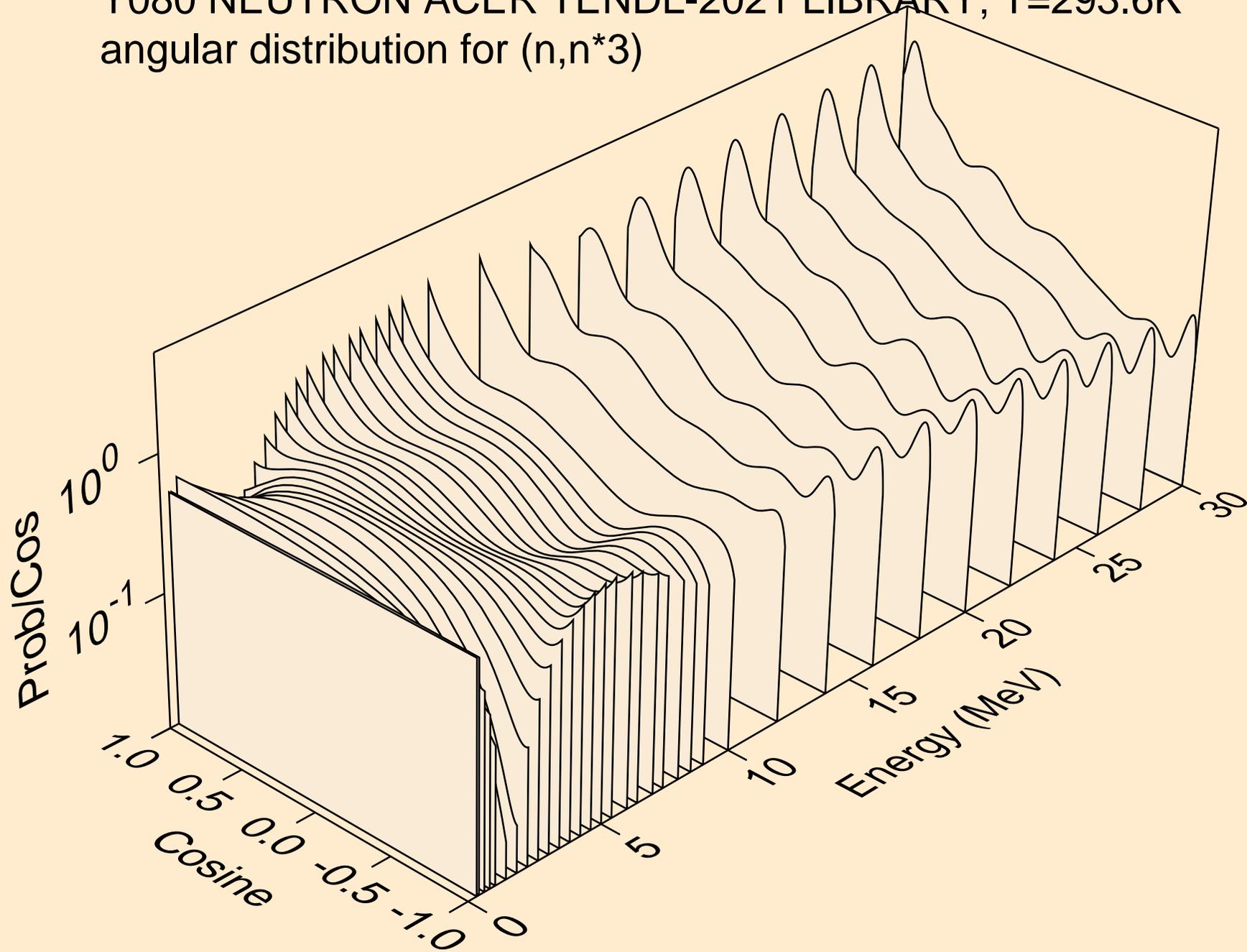
Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
angular distribution for (n,n*4)
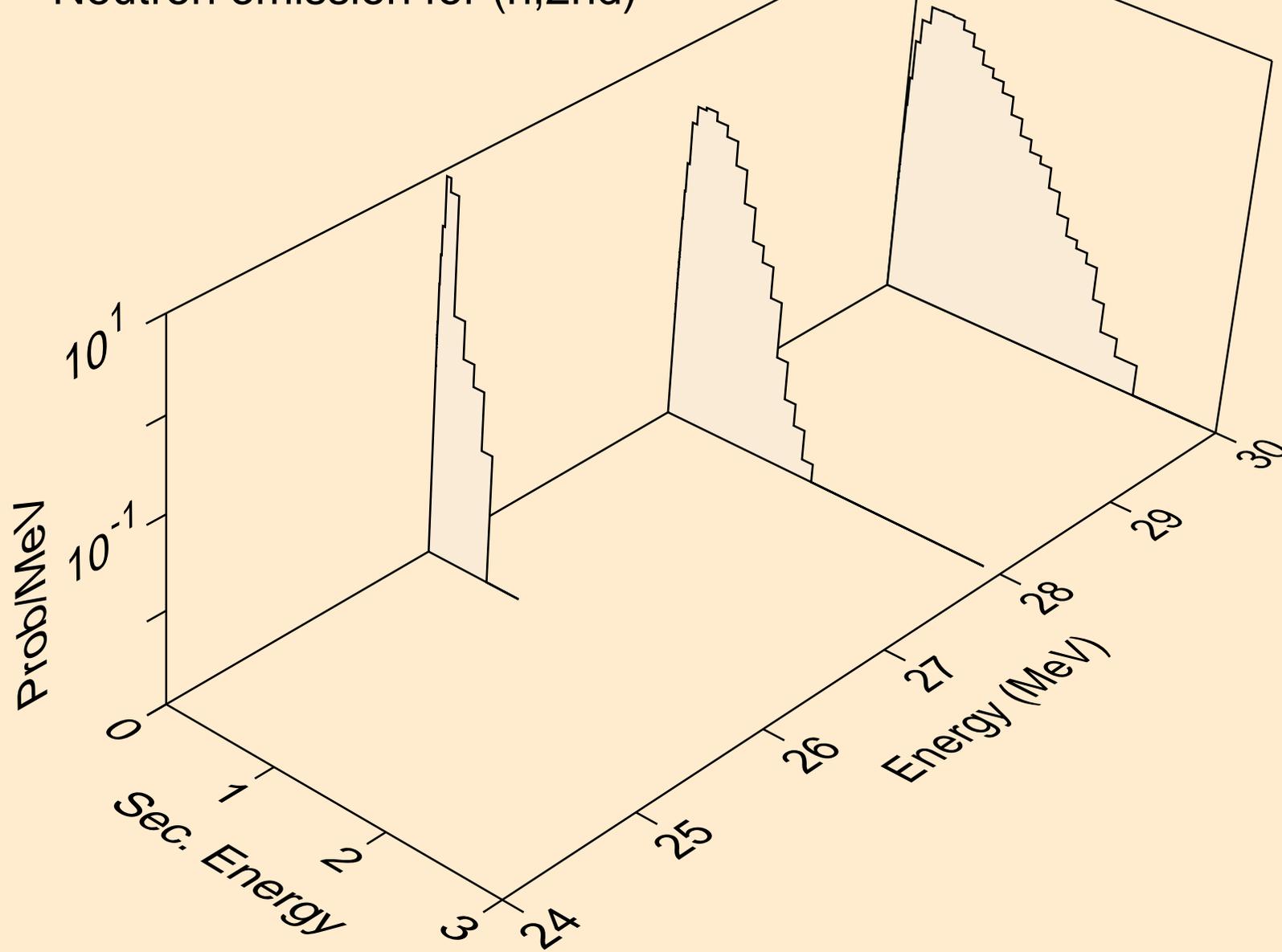
Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
angular distribution for (n,n*5)
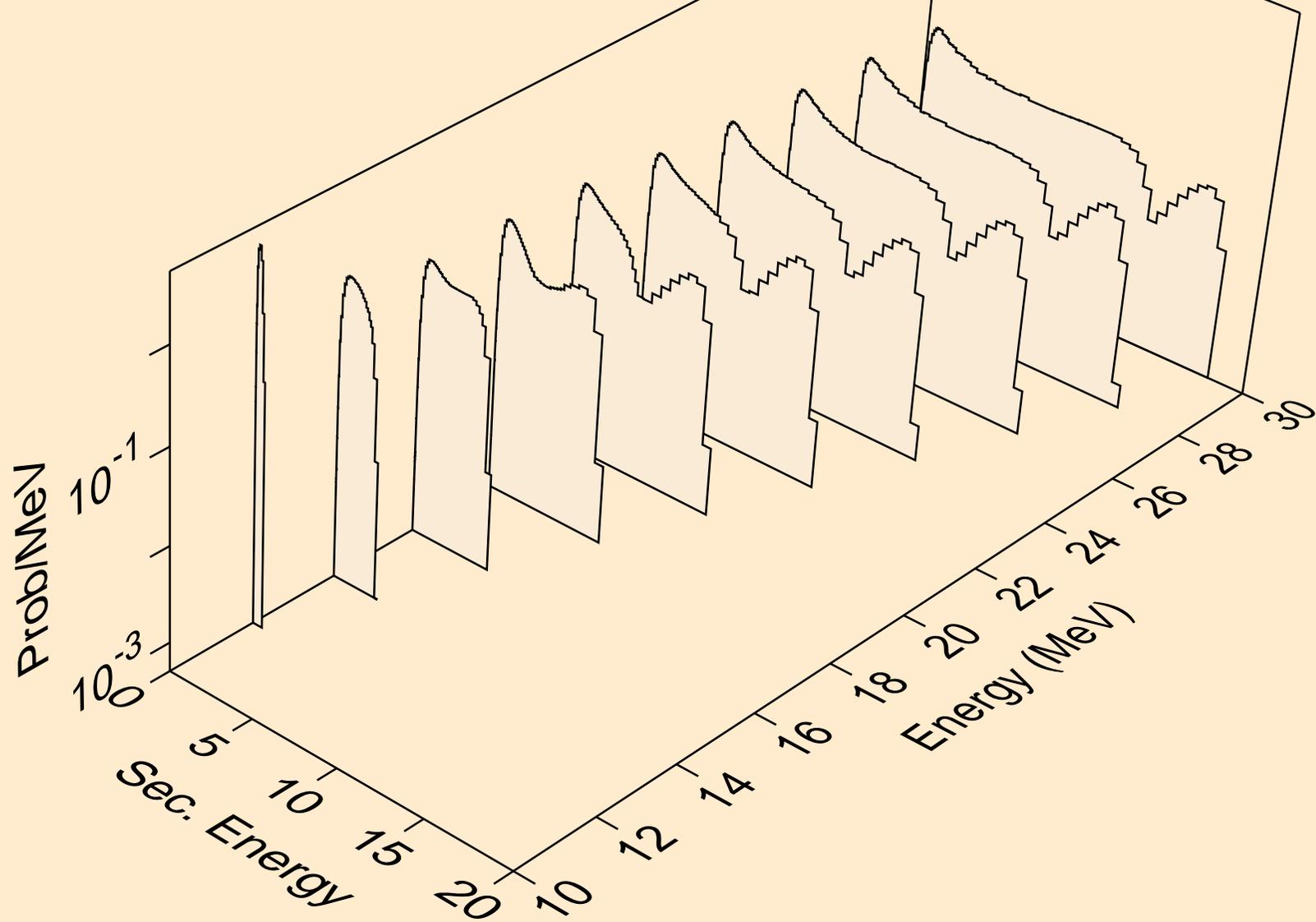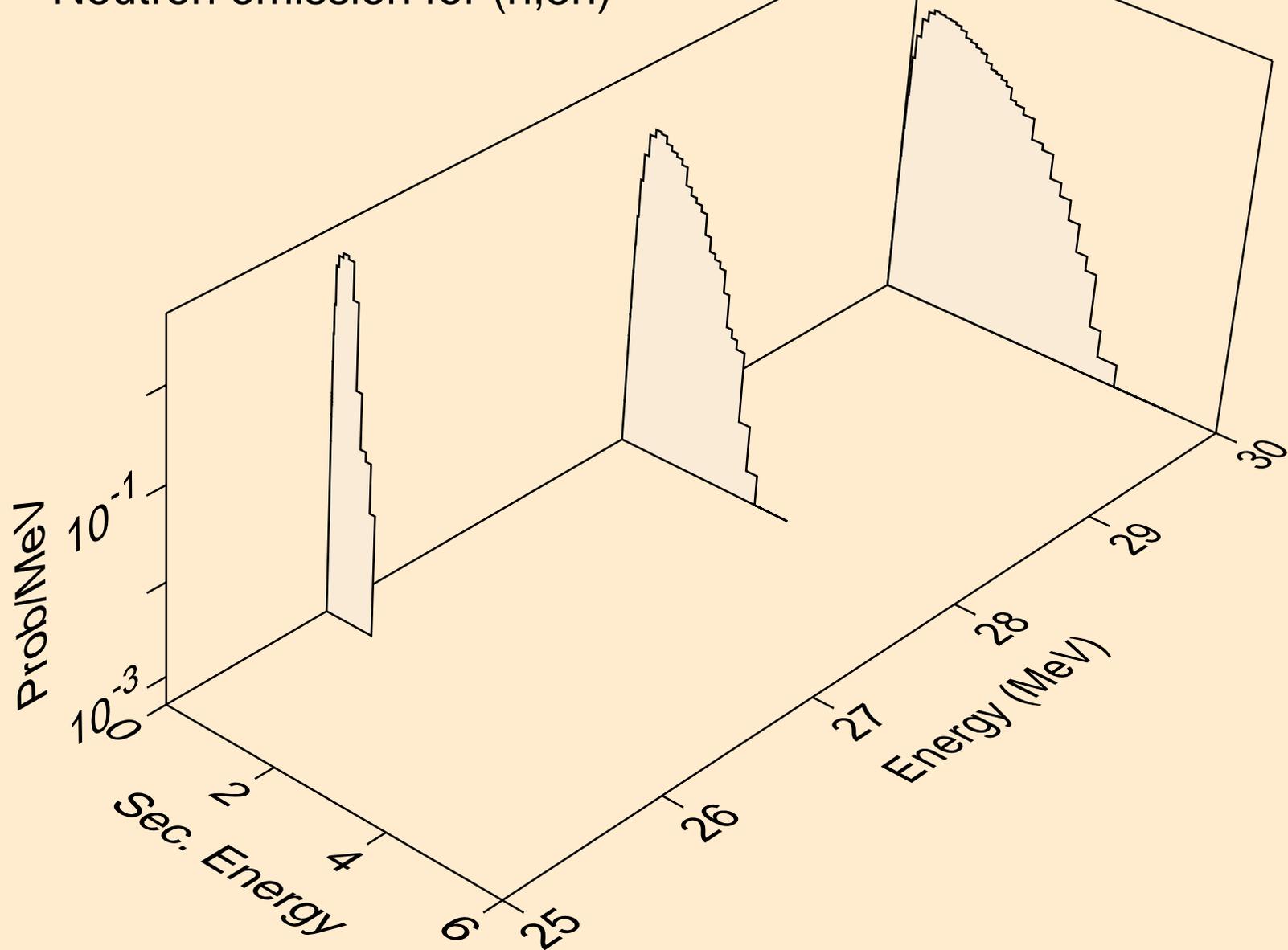
Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
angular distribution for (n,n*6)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
angular distribution for (n,n*7)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
angular distribution for (n,n*8)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
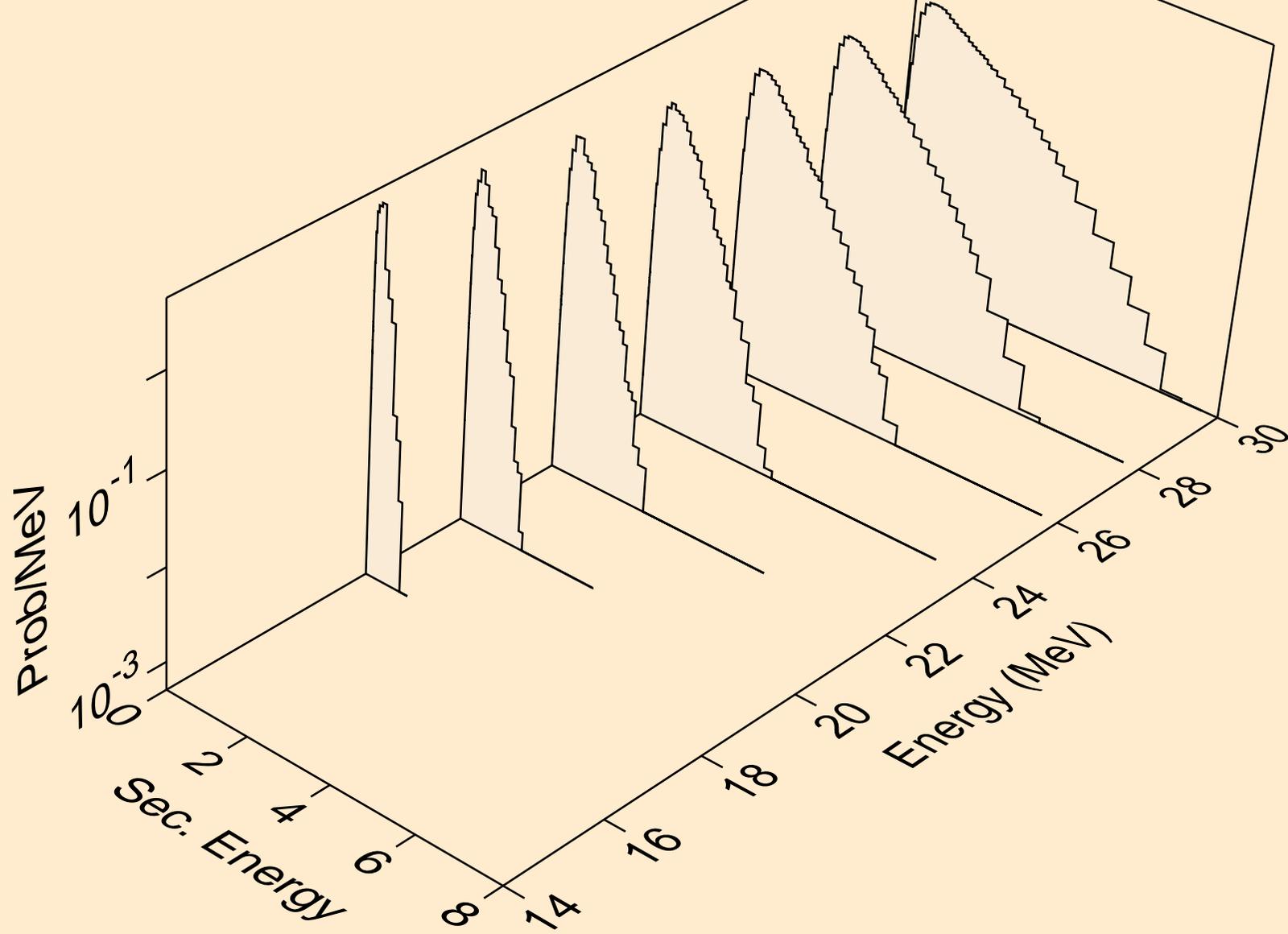angular distribution for (n,n*9)

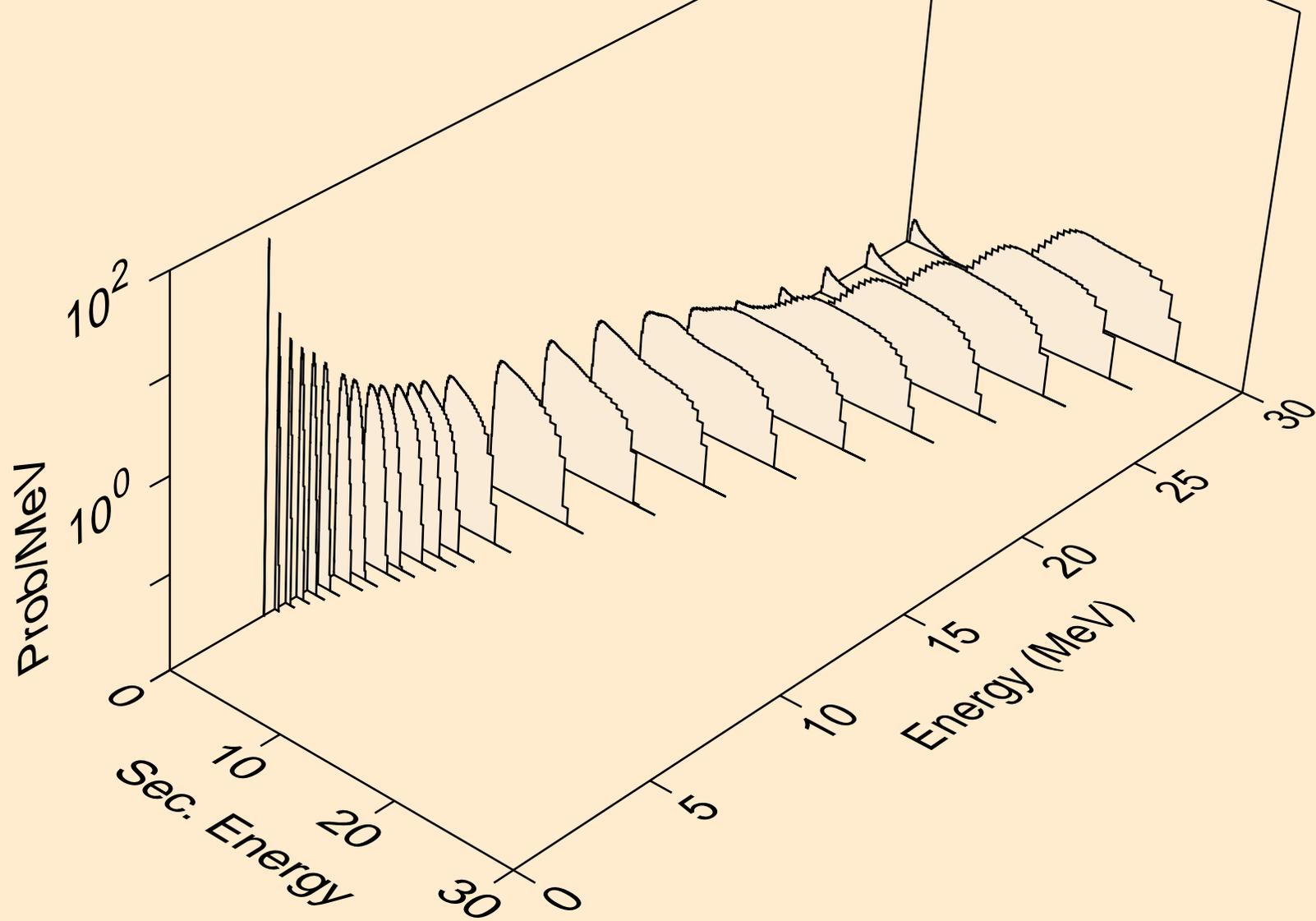Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
angular distribution for (n,n*10)

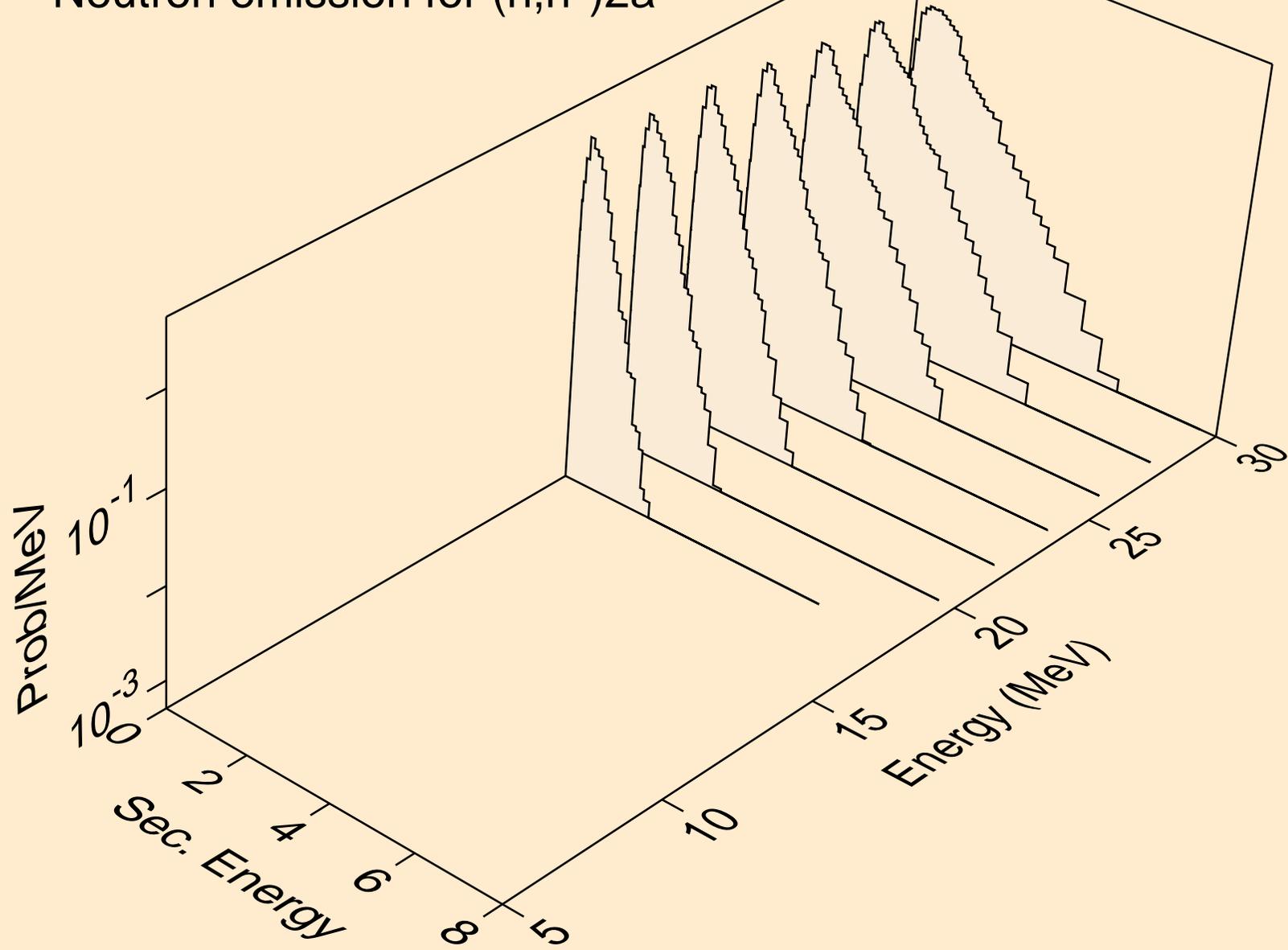Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Neutron emission for (n,x)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Neutron emission for (n,2nd)

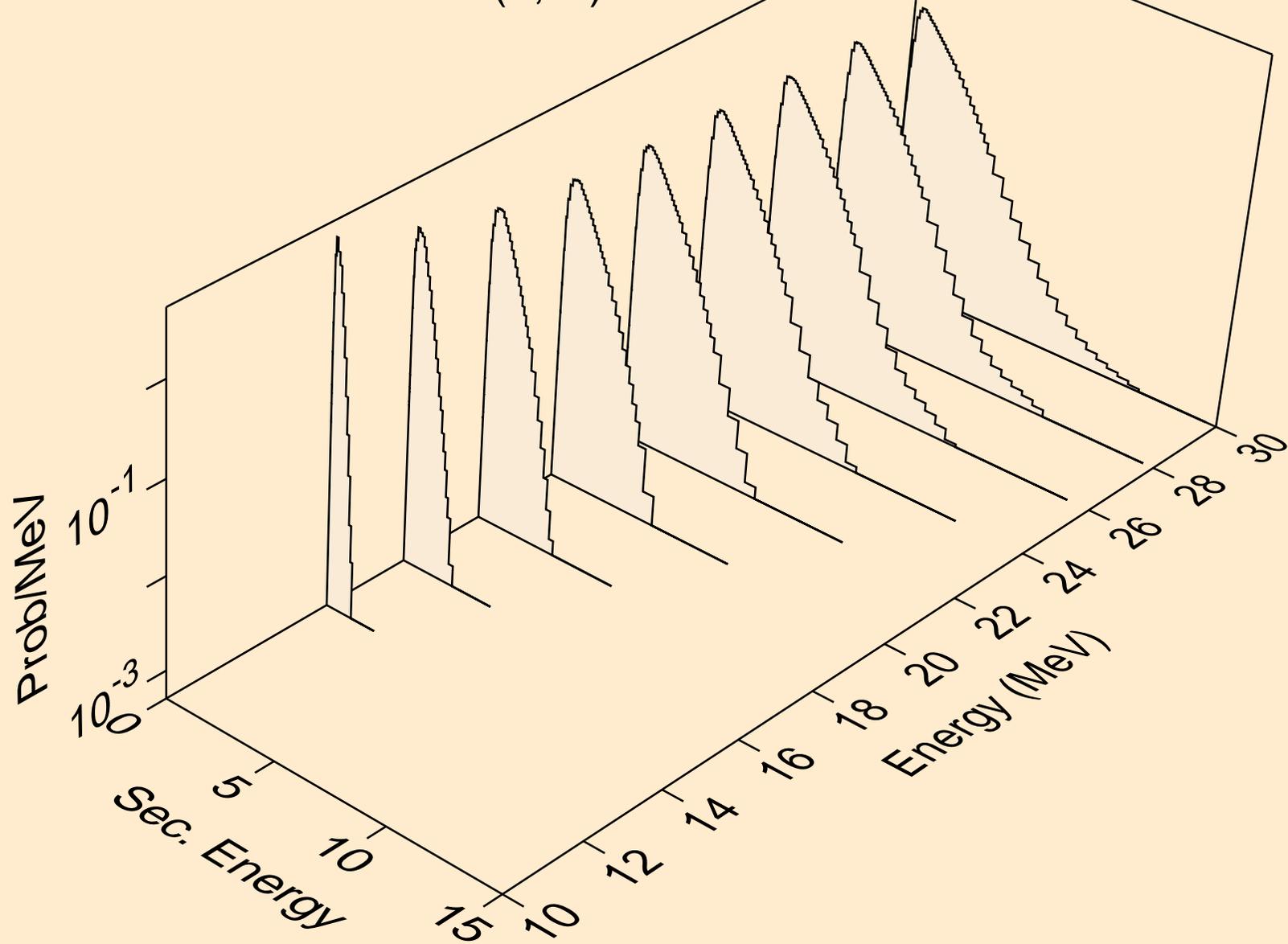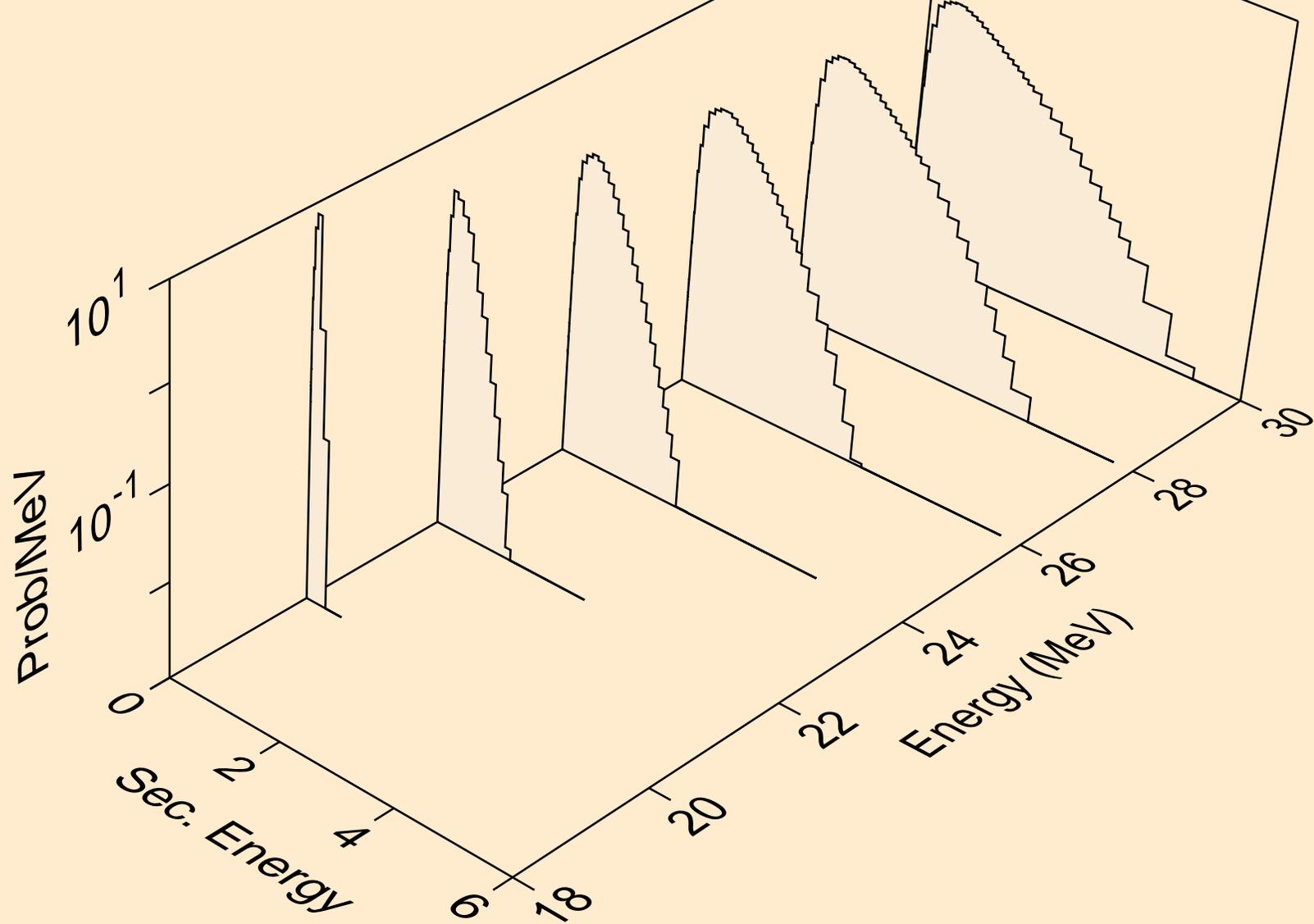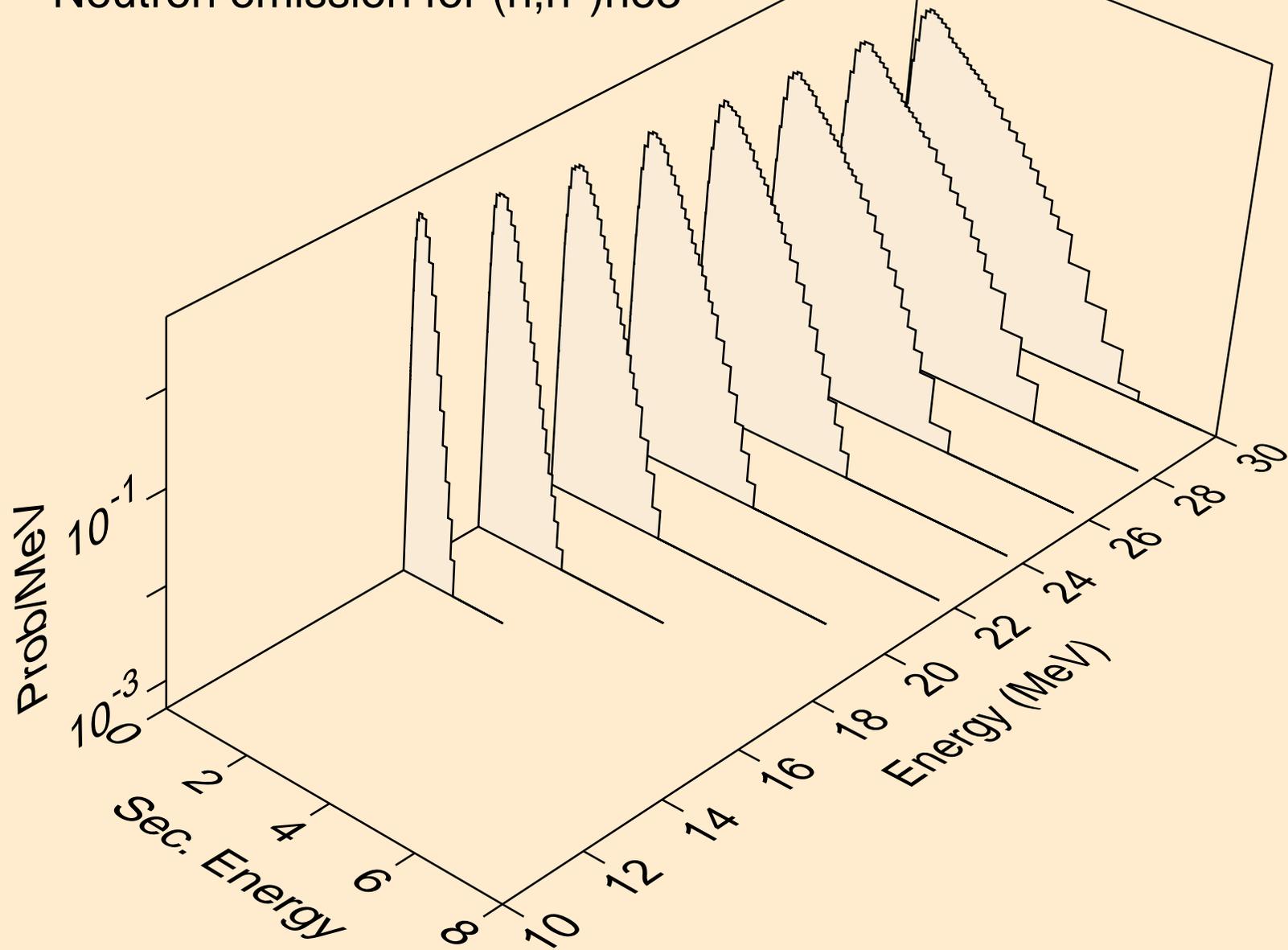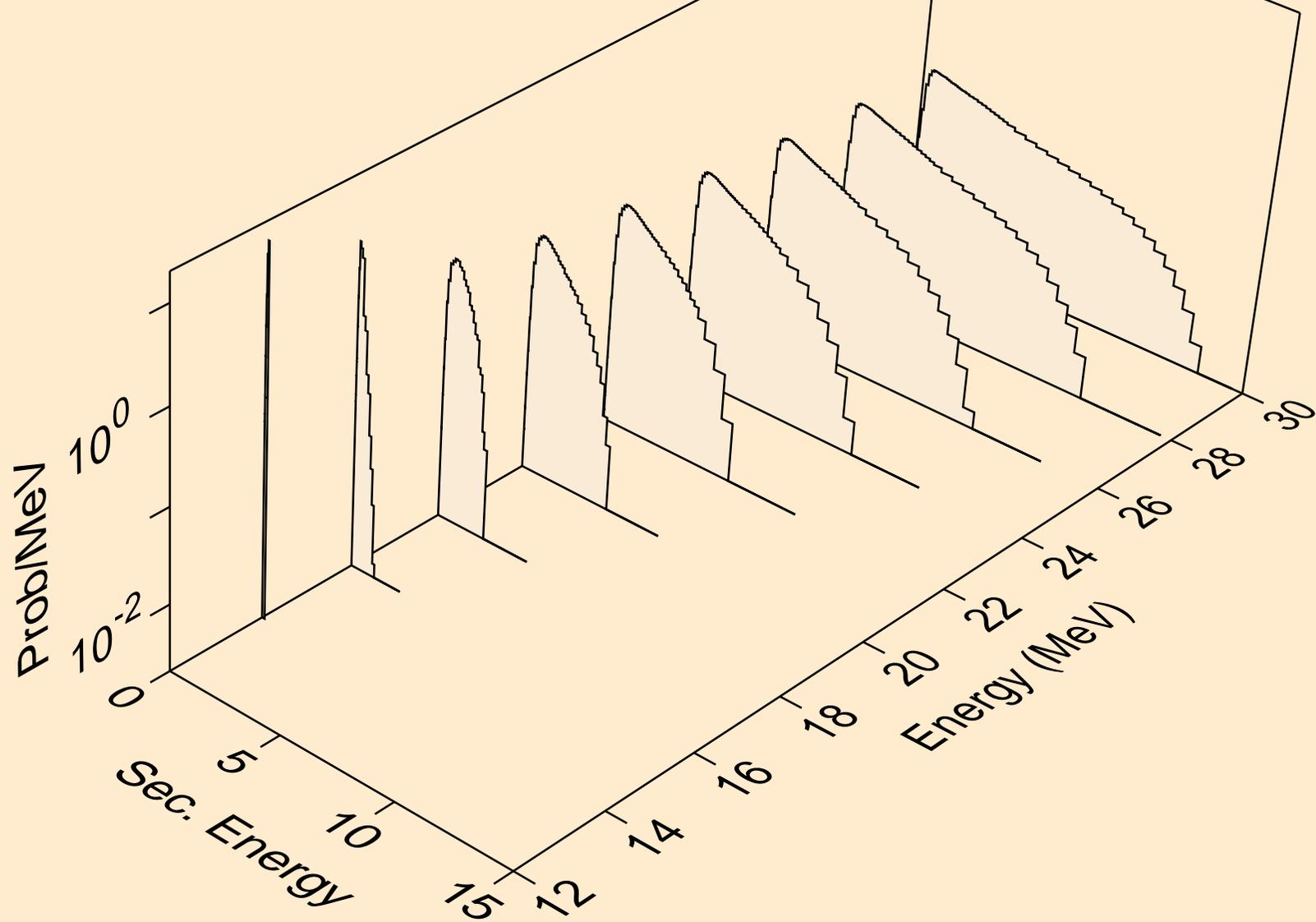Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Neutron emission for (n,2n)

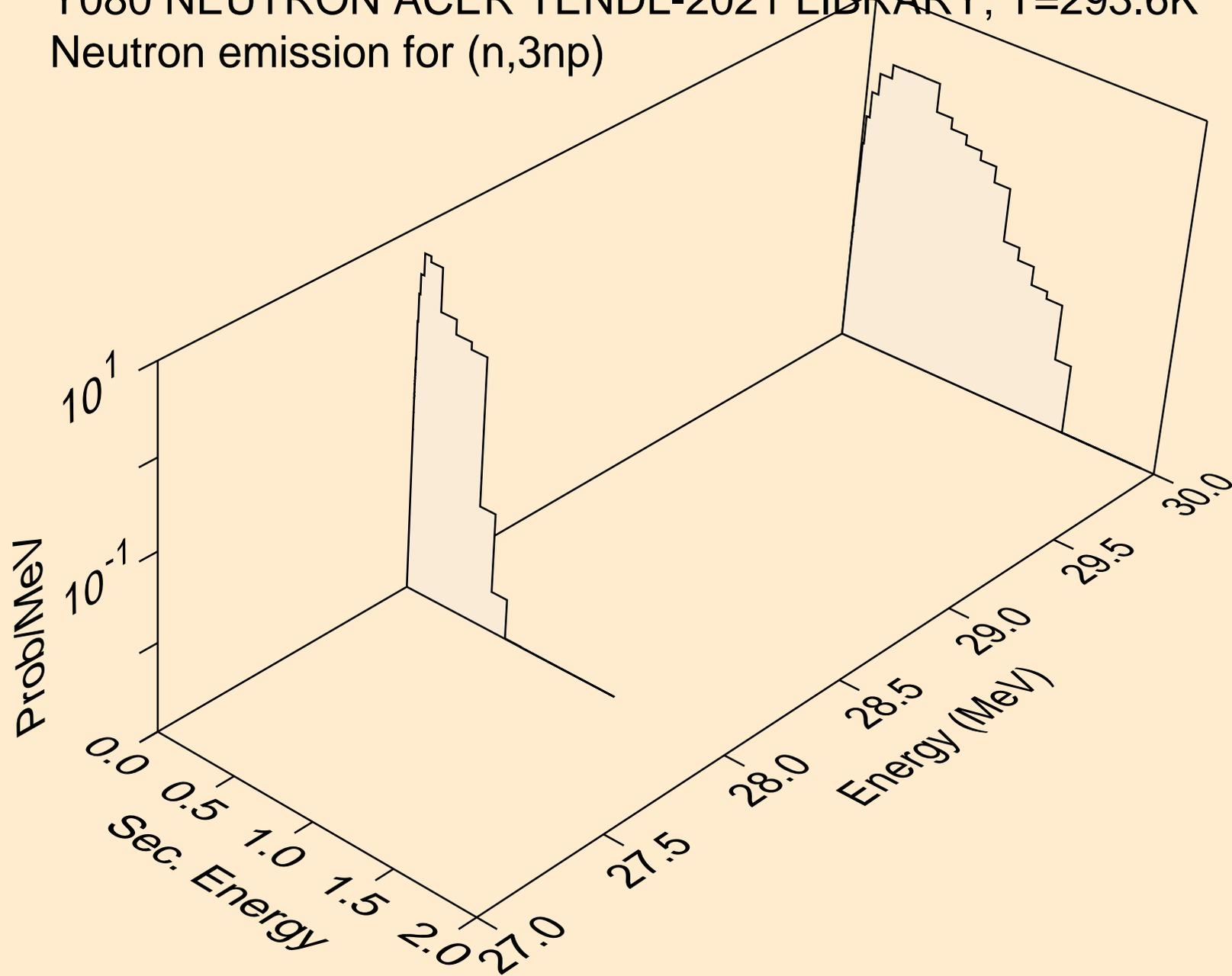Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Neutron emission for (n,3n)

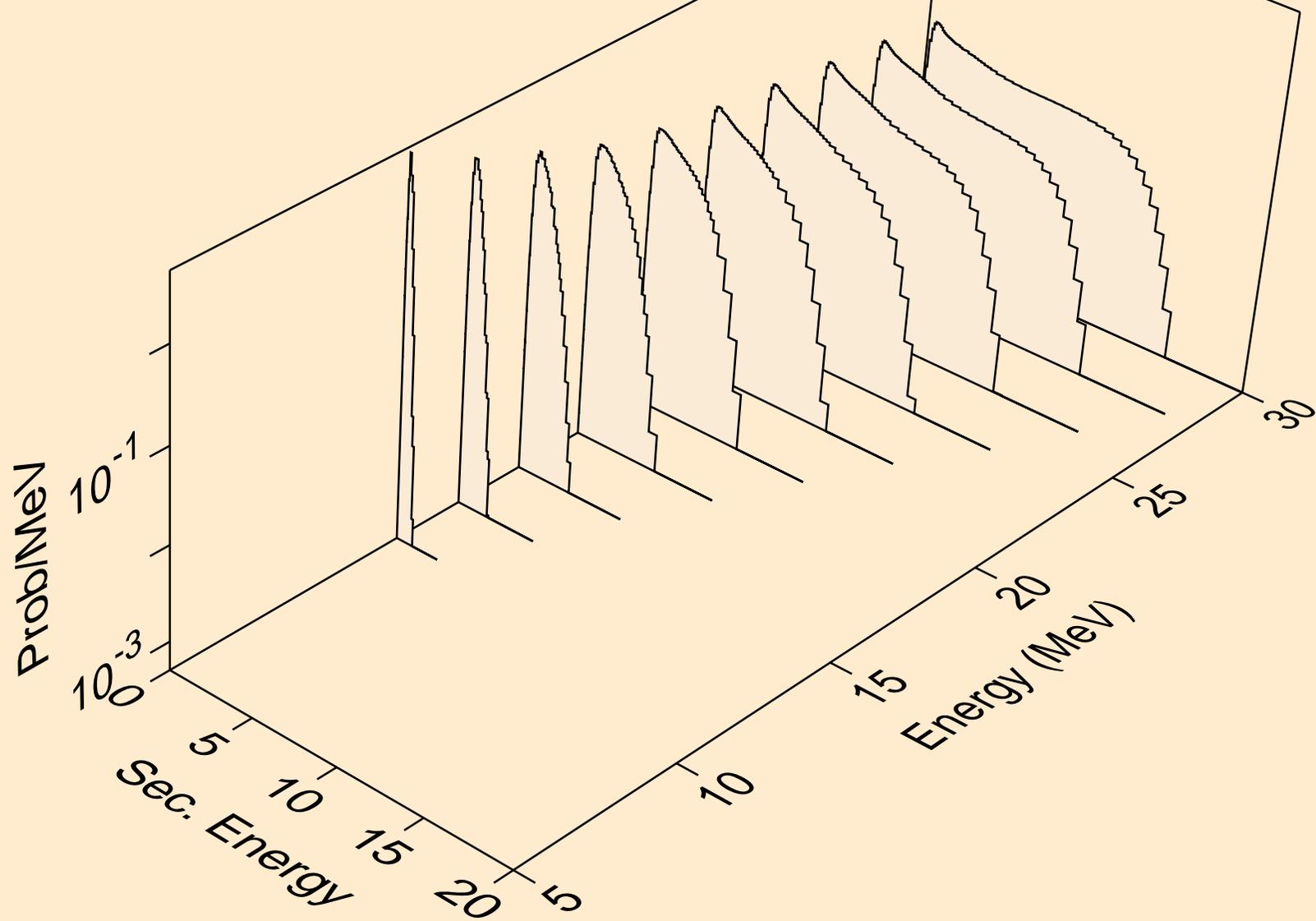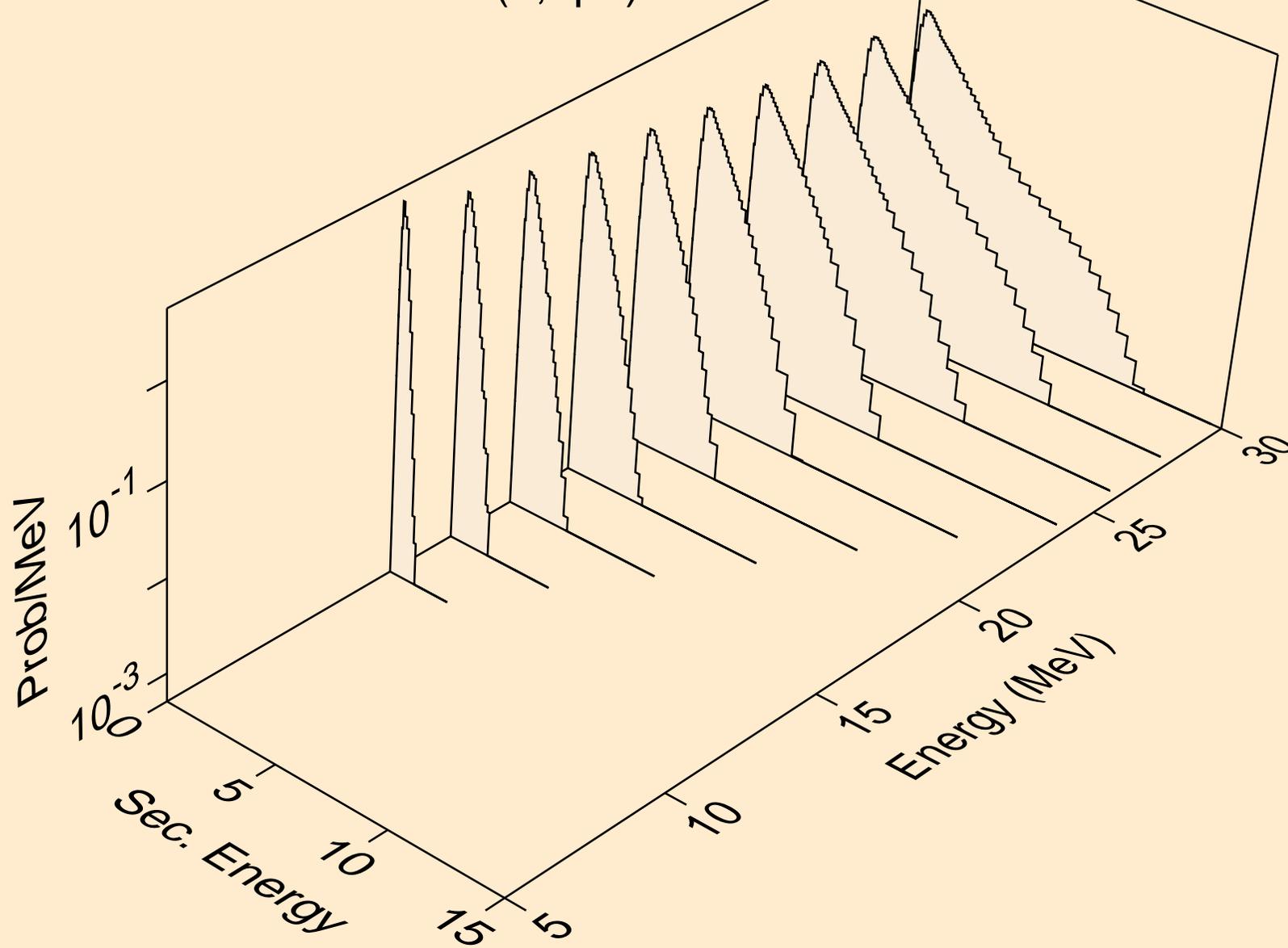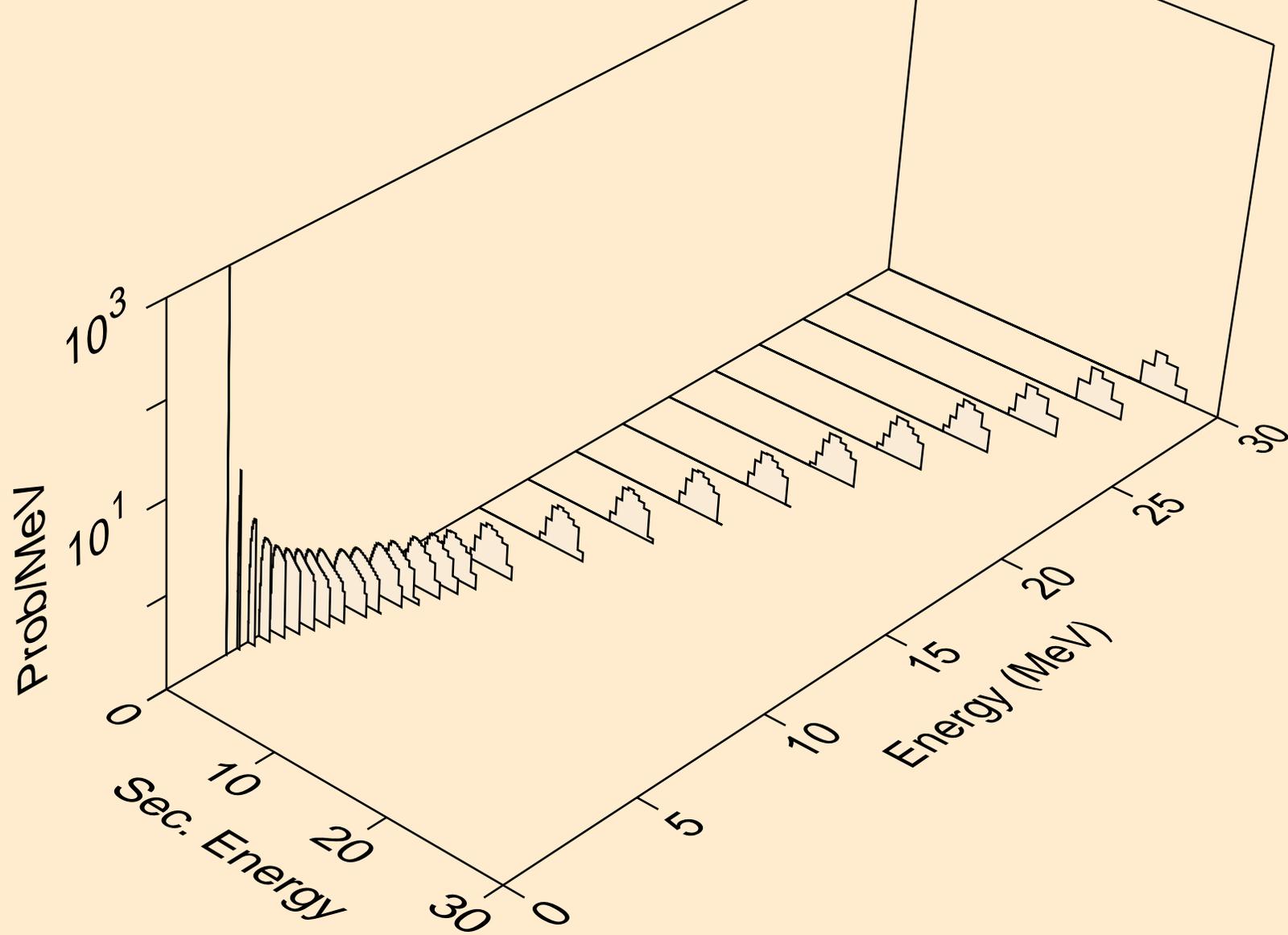Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Neutron emission for (n,n*)a

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Neutron emission for (n,2n)a

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Neutron emission for (n,n*)p

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Neutron emission for (n,n*)2a

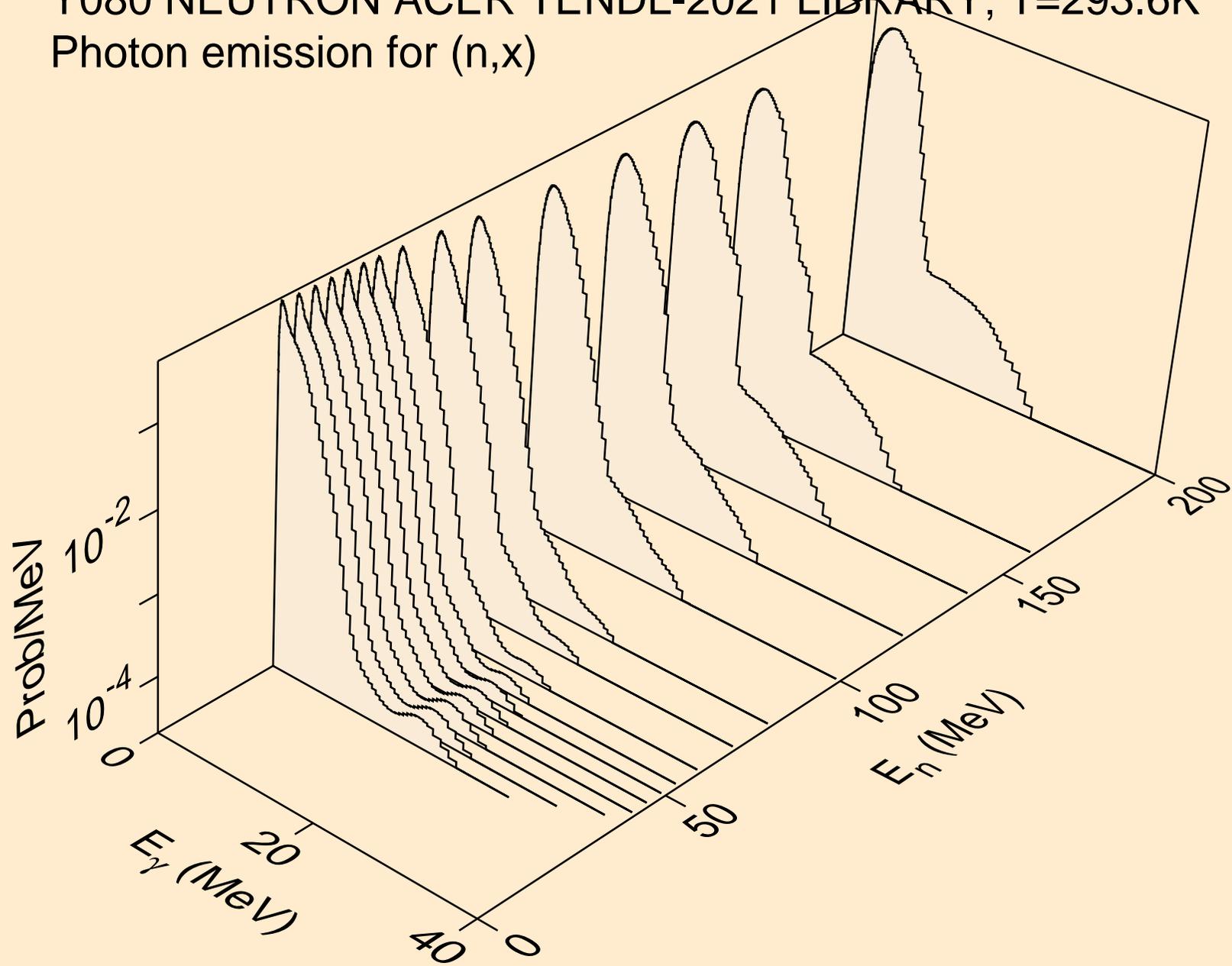Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Neutron emission for (n,n*)d

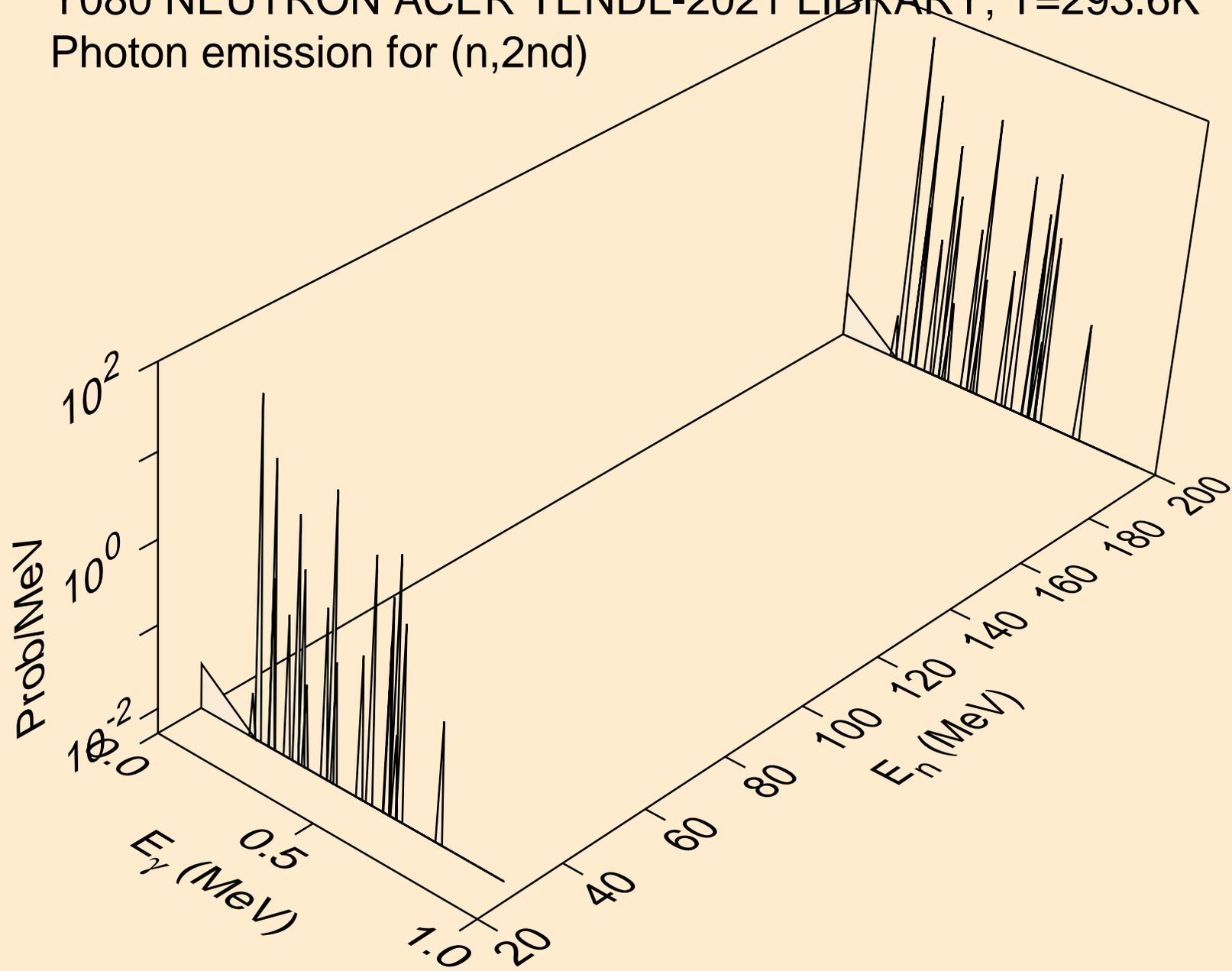Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Neutron emission for (n,n*)t

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Neutron emission for (n,n*)he3

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Neutron emission for (n,2np)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
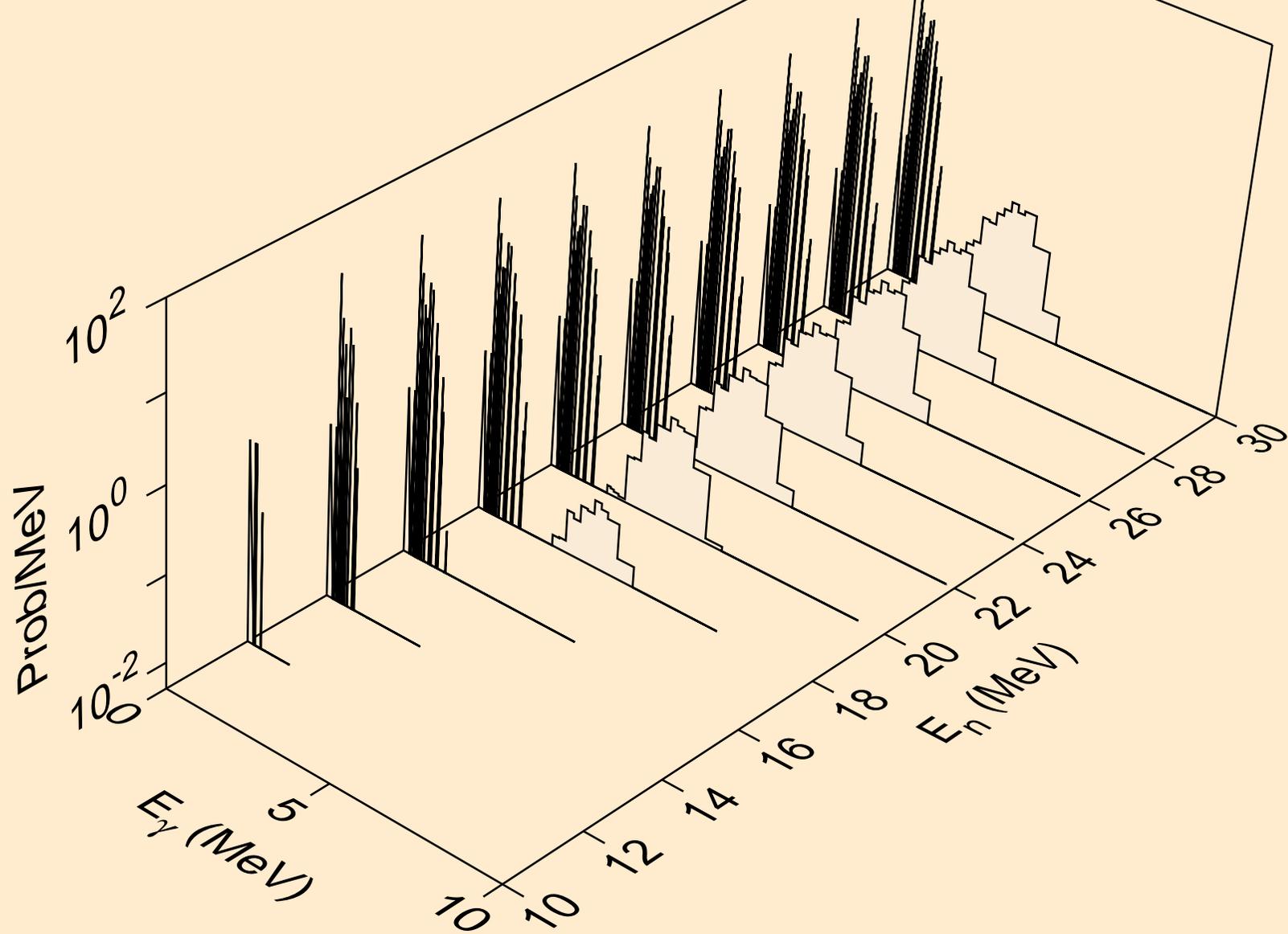Neutron emission for (n,3np)

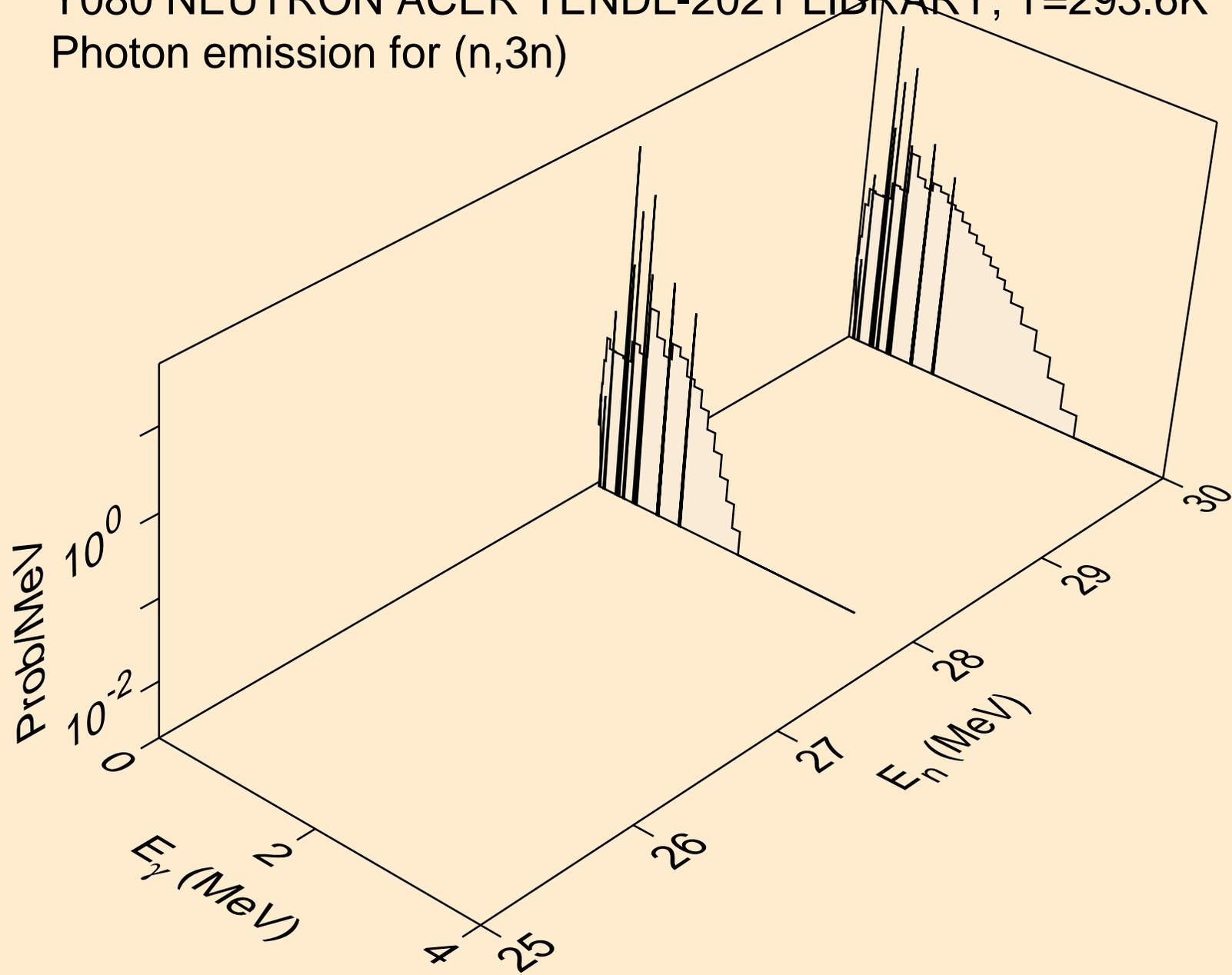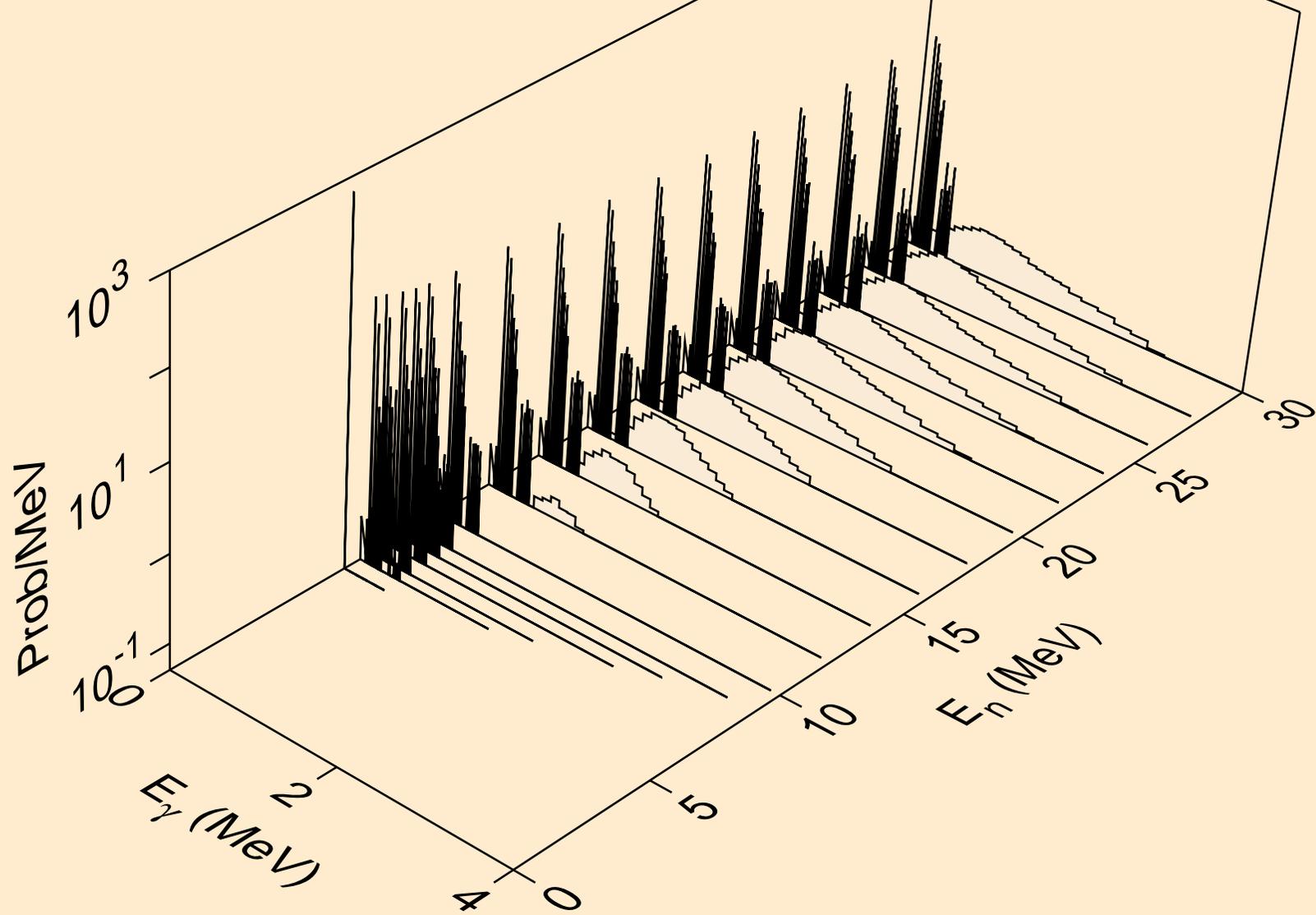Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Neutron emission for (n,2np)

ProbIMeV

10^{-1}

10^{-3}

Sec. Energy

Energy (MeV)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Neutron emission for (n,npa)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Neutron emission for (n,n*c)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Photon emission for (n,x)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Photon emission for (n,2nd)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
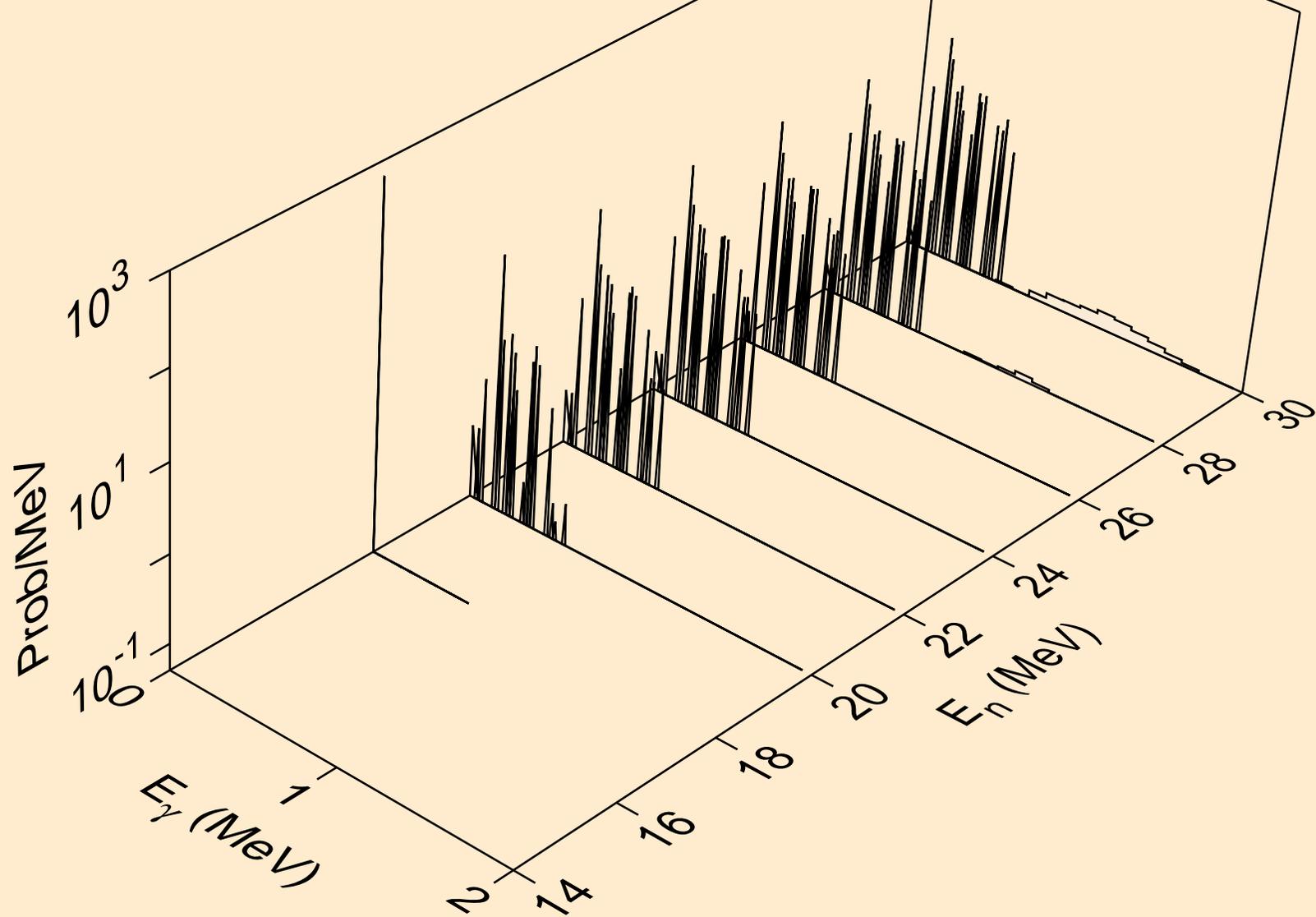Photon emission for (n,2n)

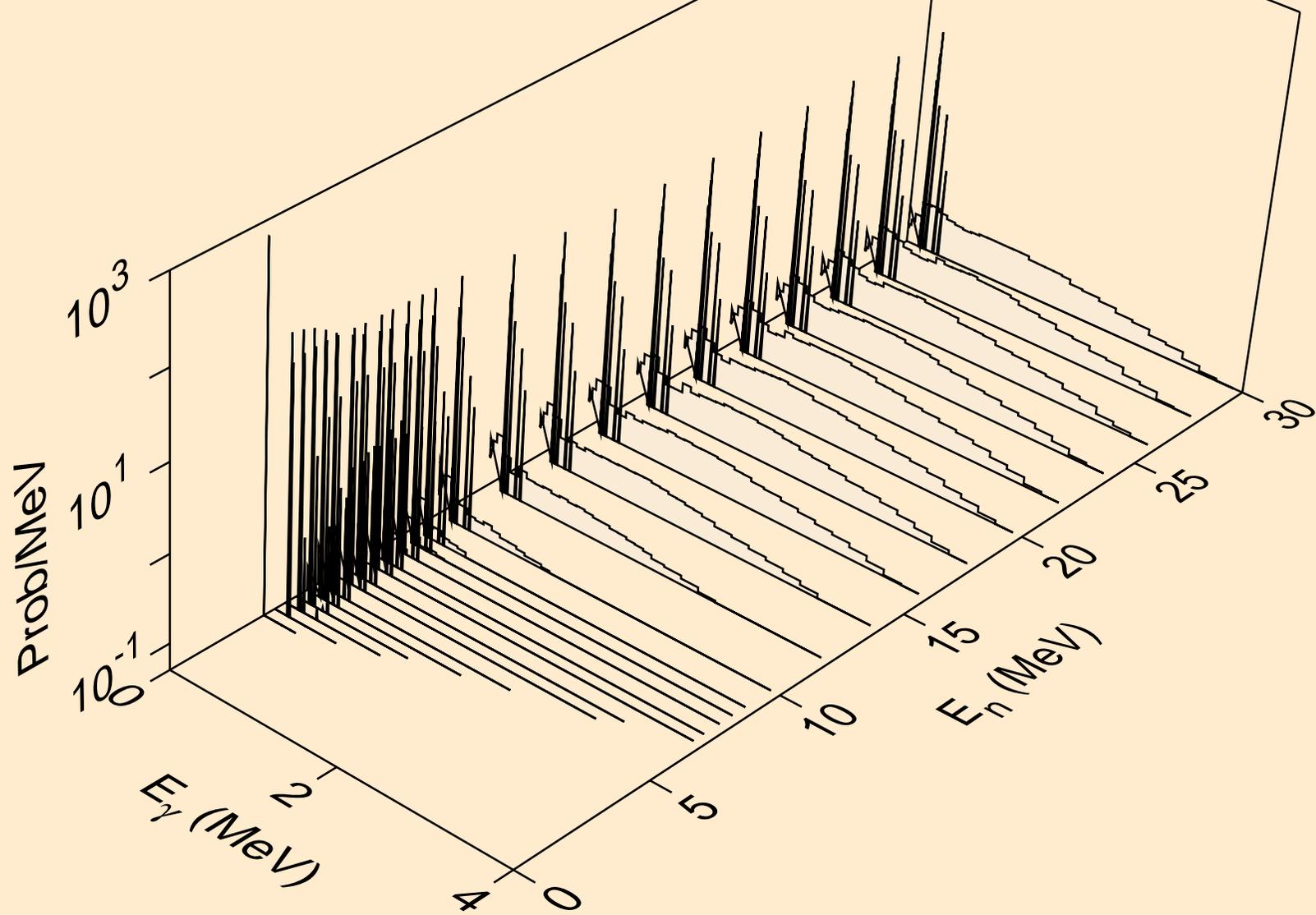Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Photon emission for (n,3n)

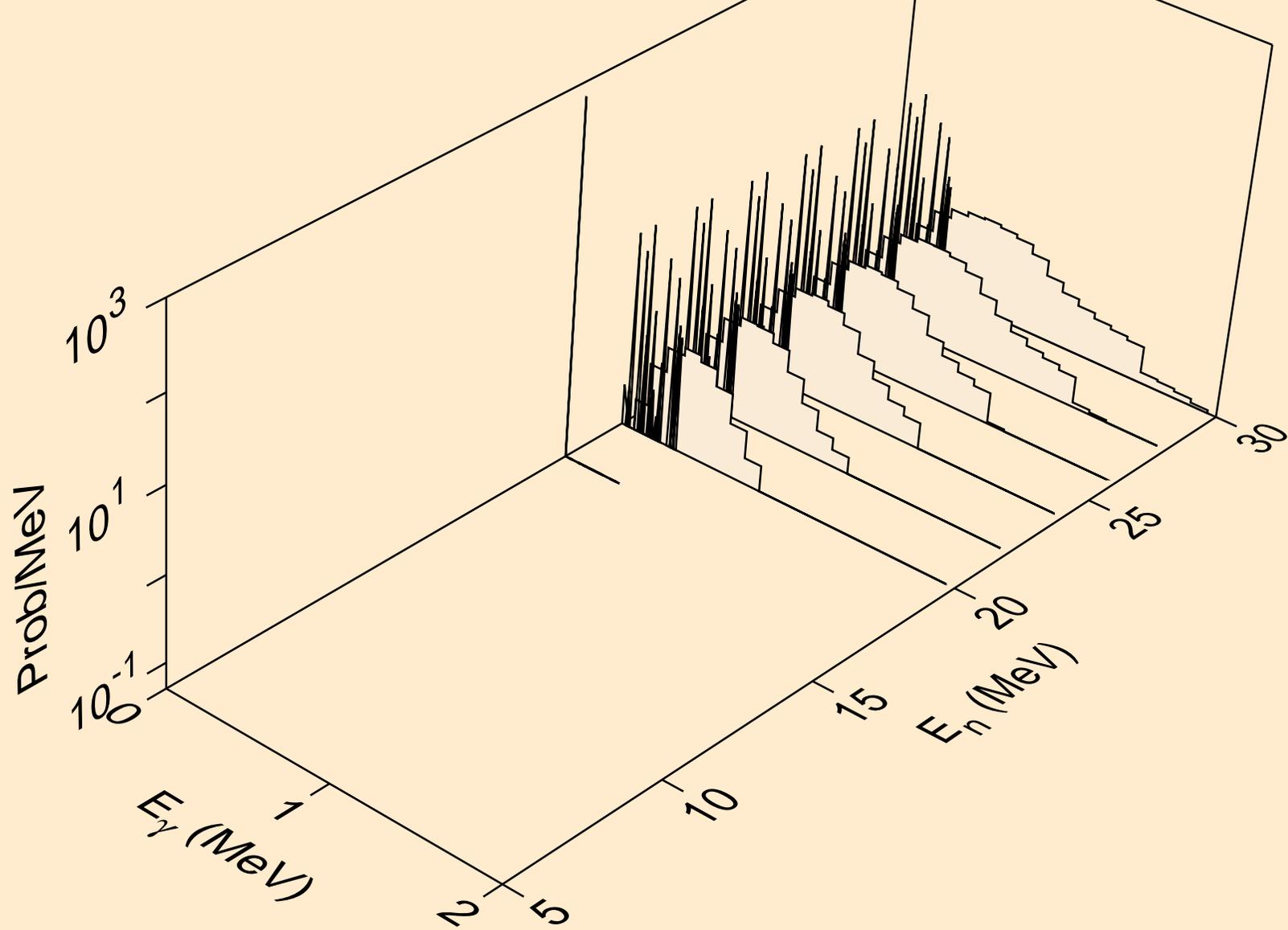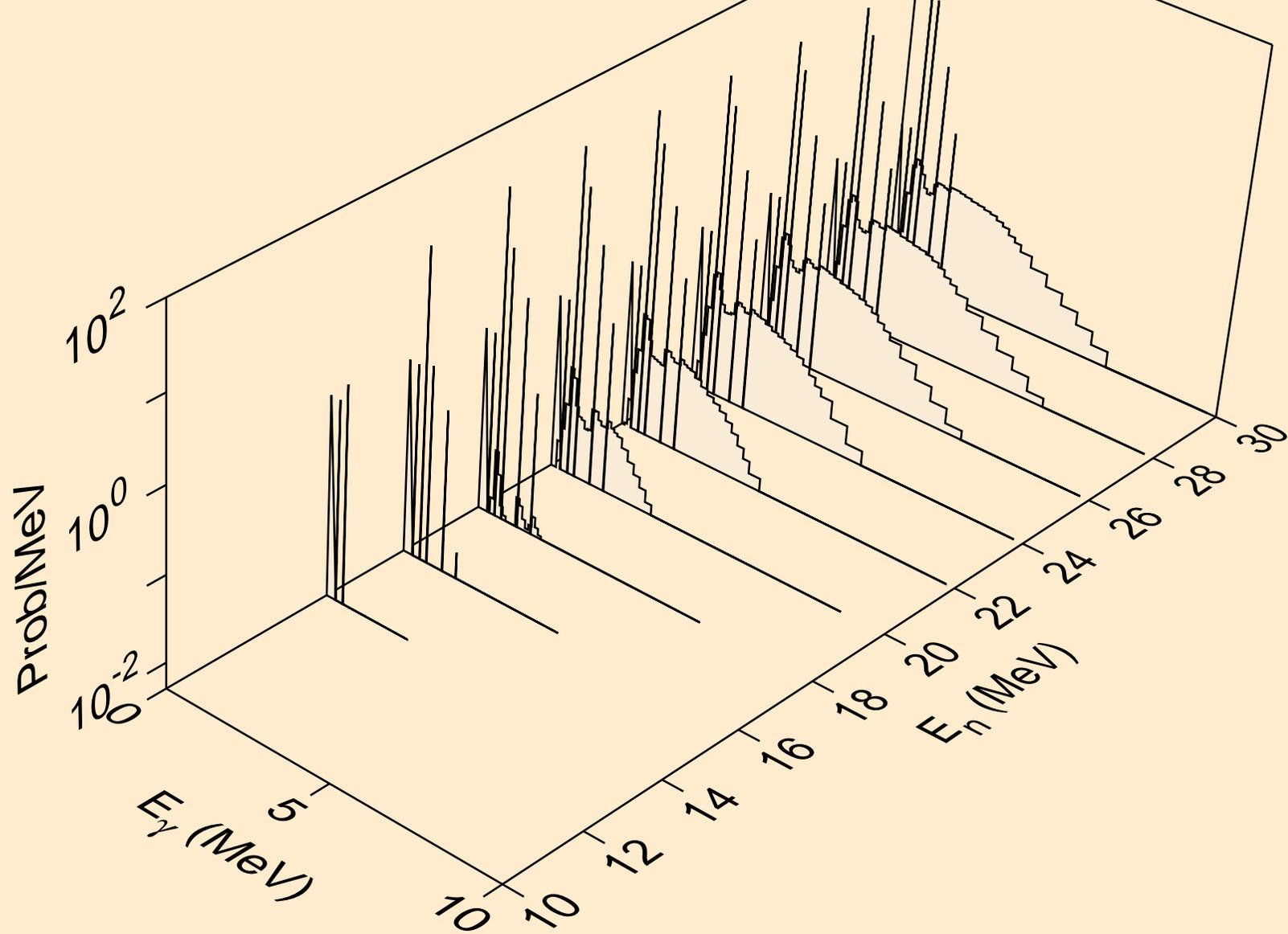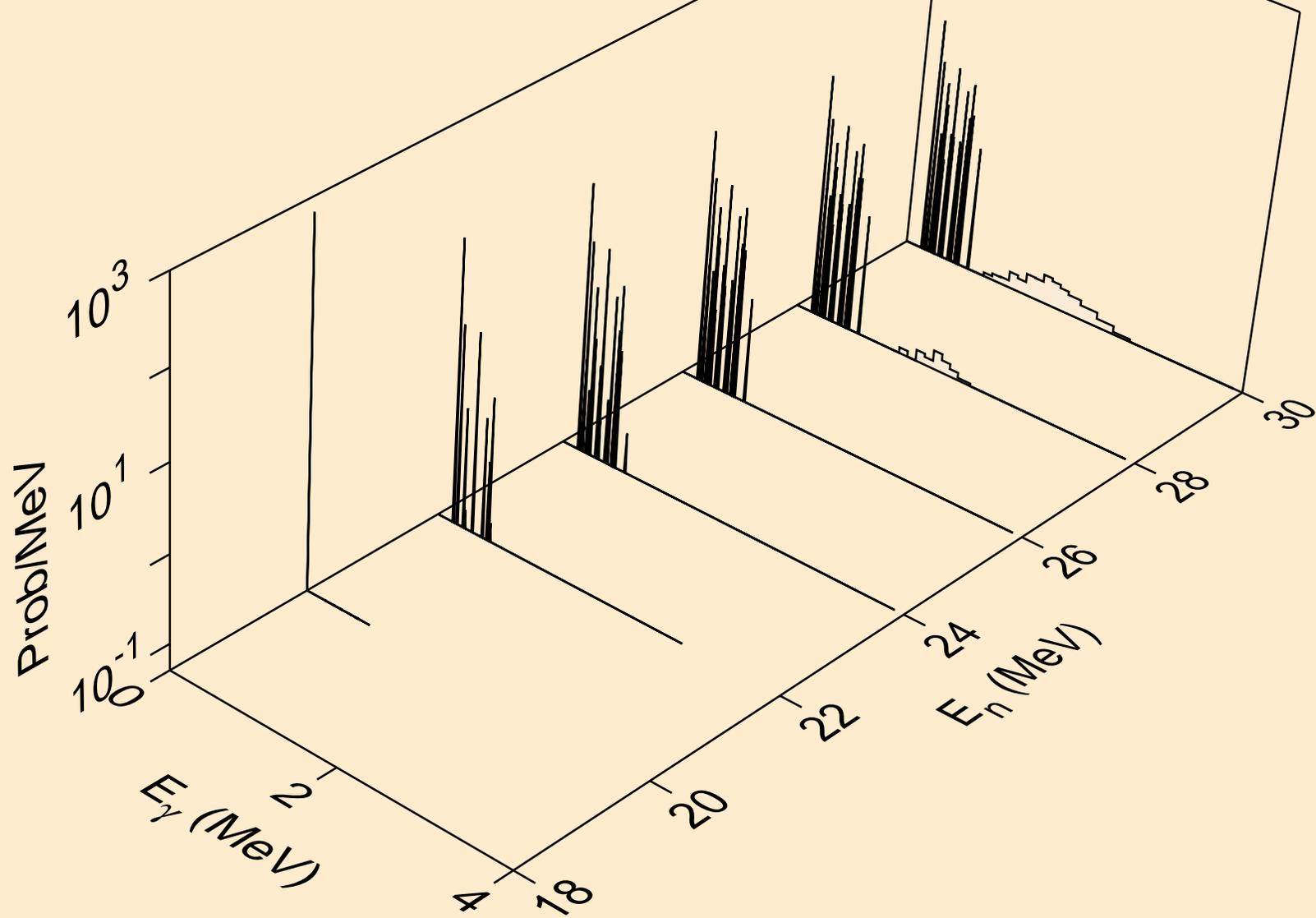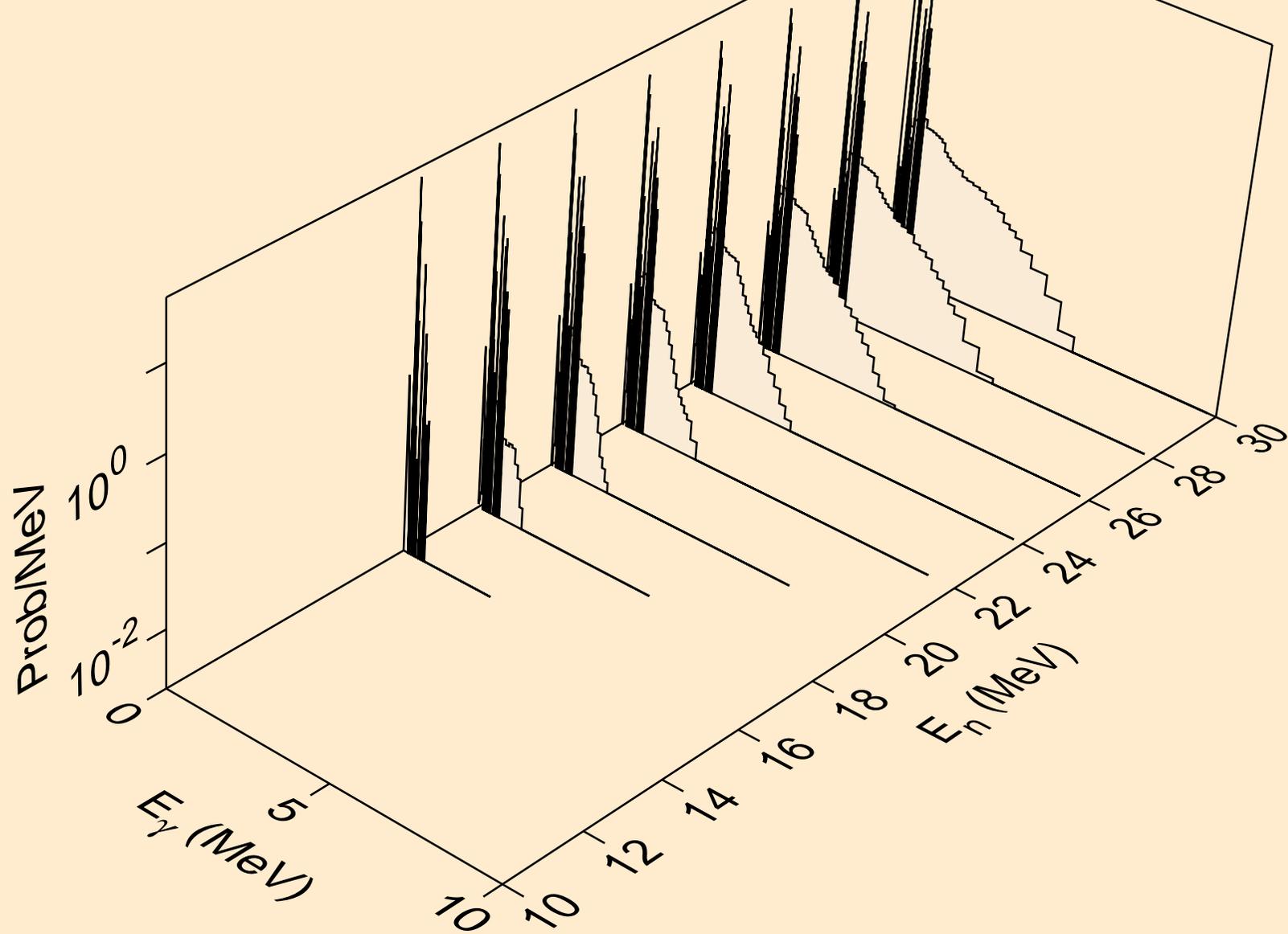Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Photon emission for (n,n*)a

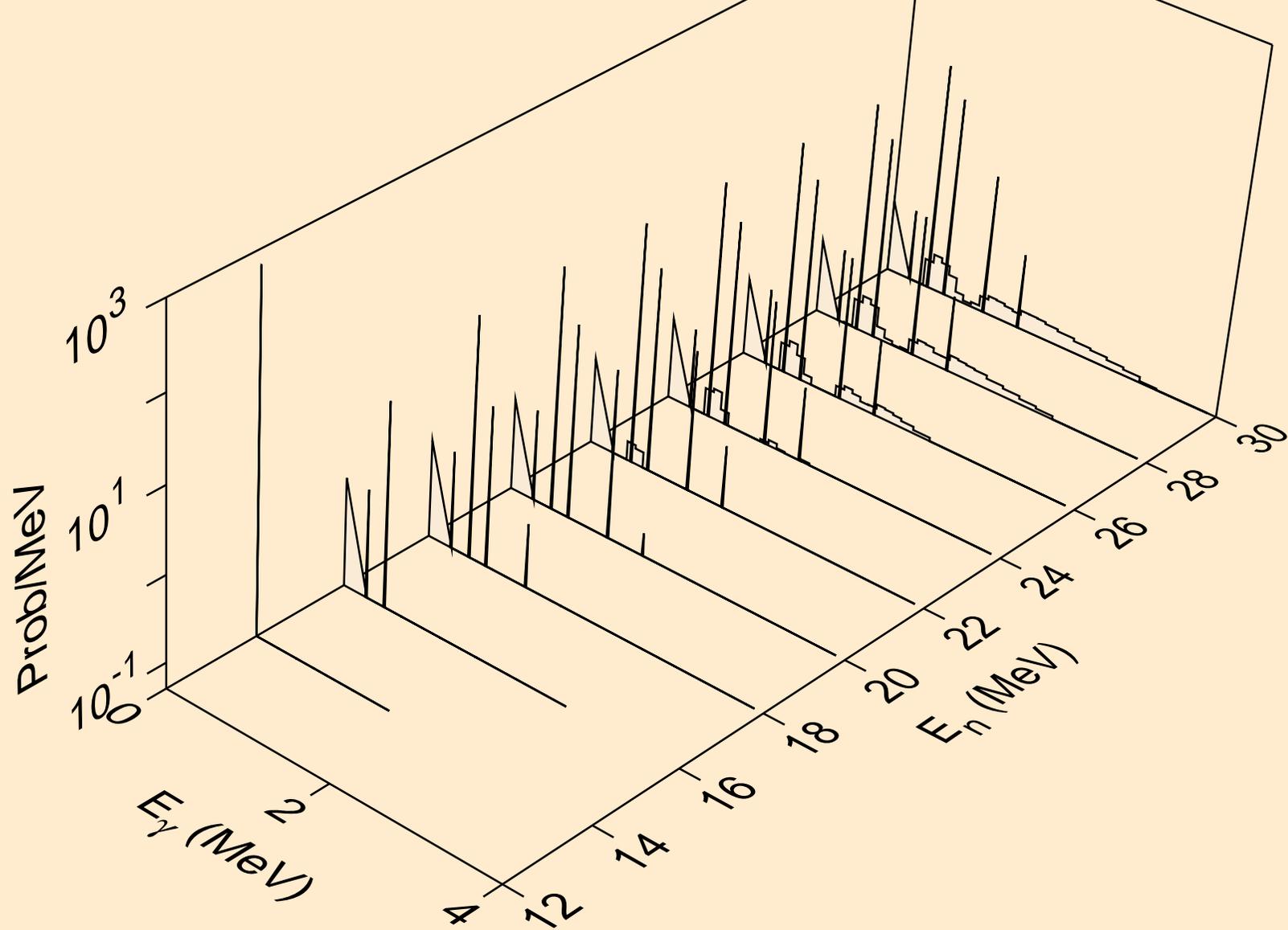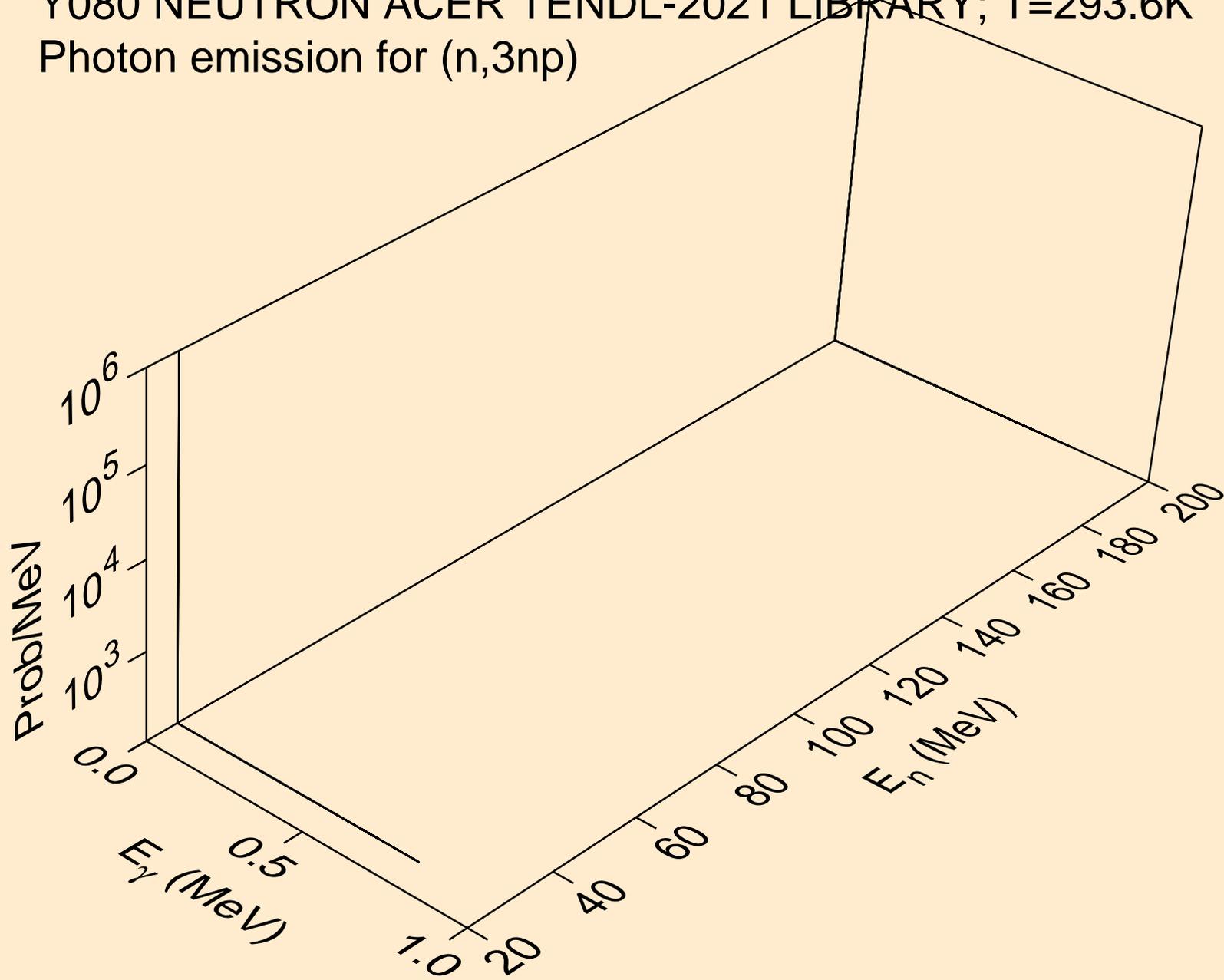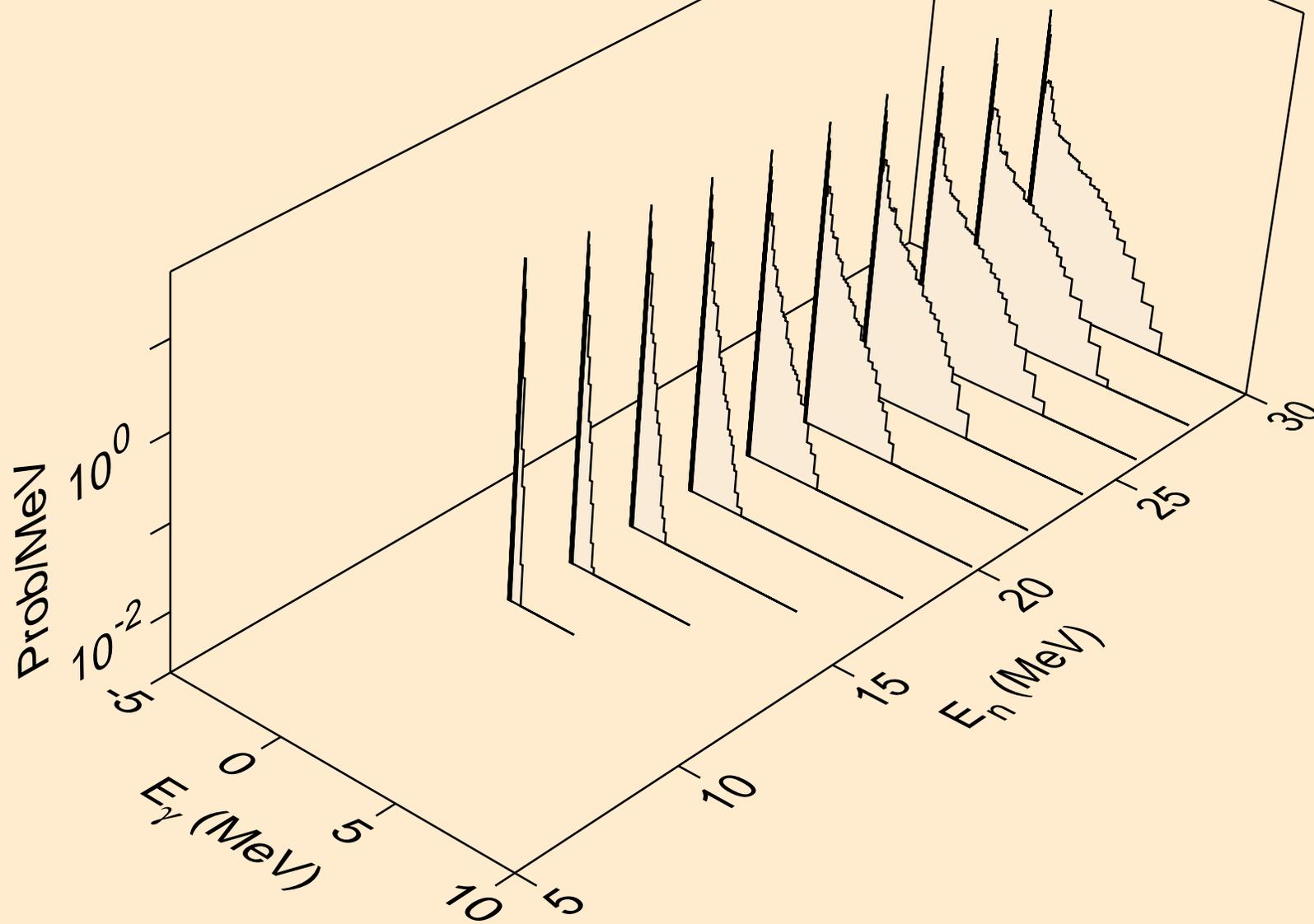Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Photon emission for (n,2n)a

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Photon emission for (n,n*)p

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Photon emission for (n,n*)2a

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Photon emission for (n,n*)d

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Photon emission for (n,n*)t

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Photon emission for (n,n*)he3

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
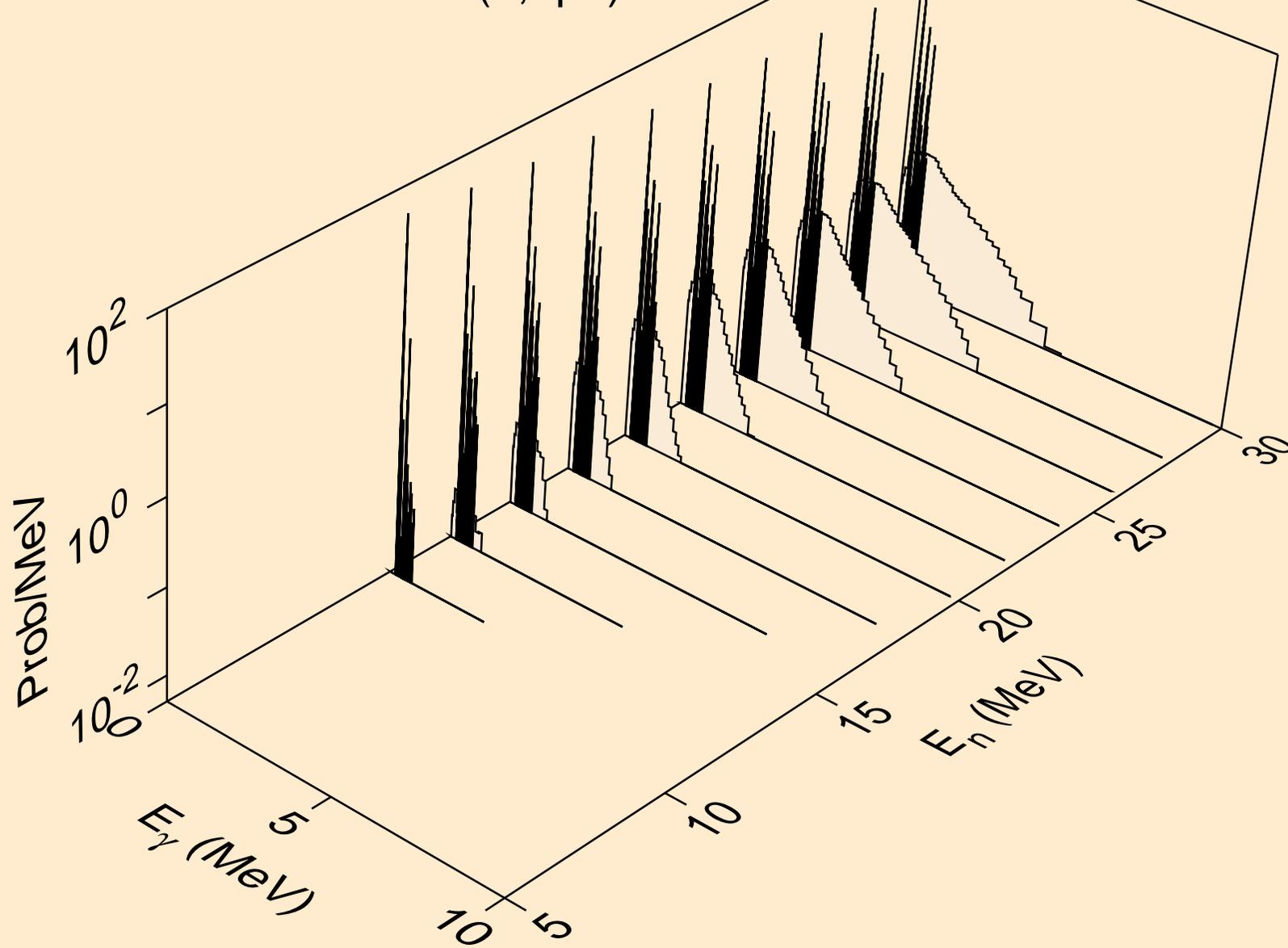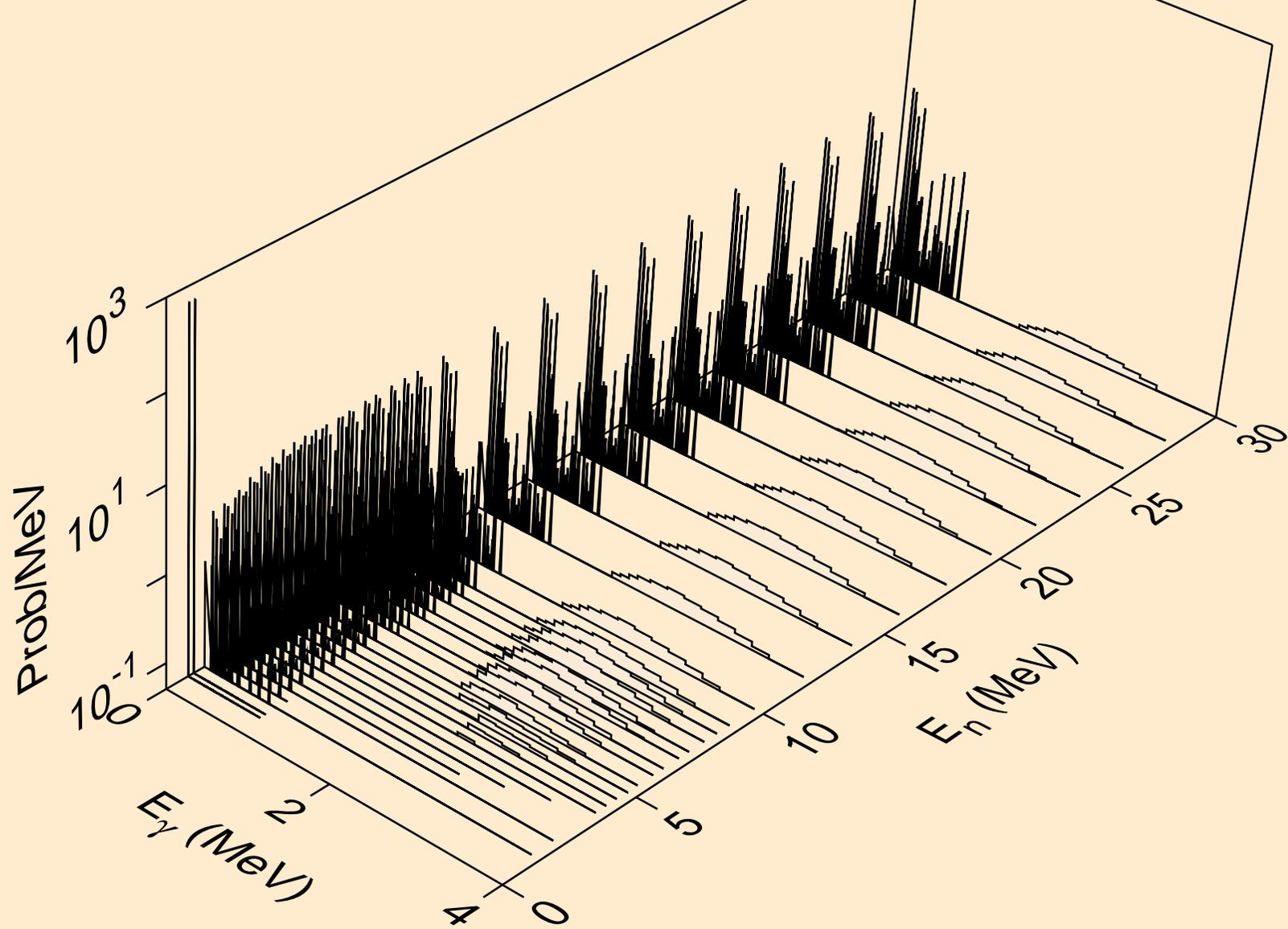Photon emission for (n,2np)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Photon emission for (n,3np)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
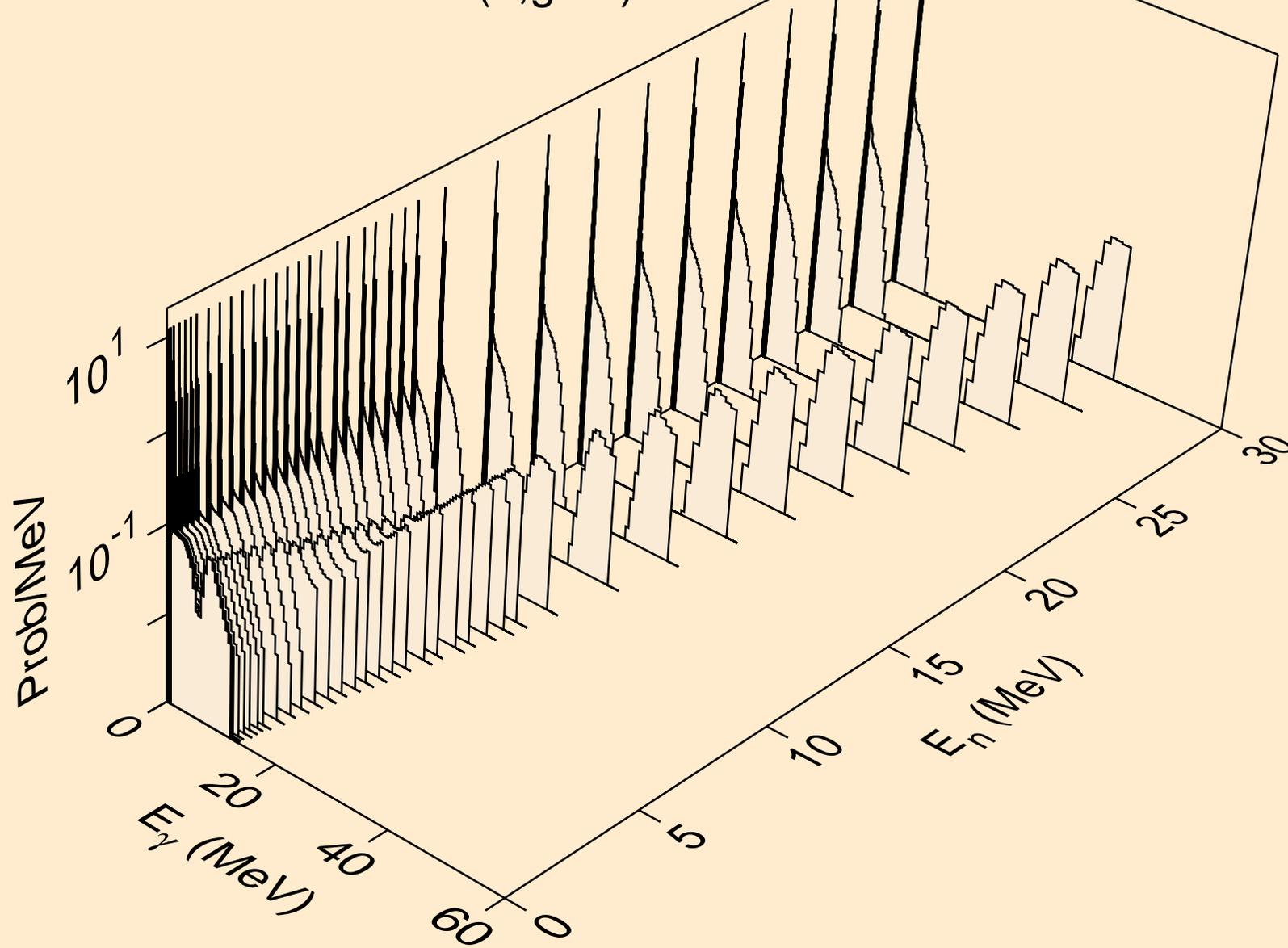Photon emission for (n,2np)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
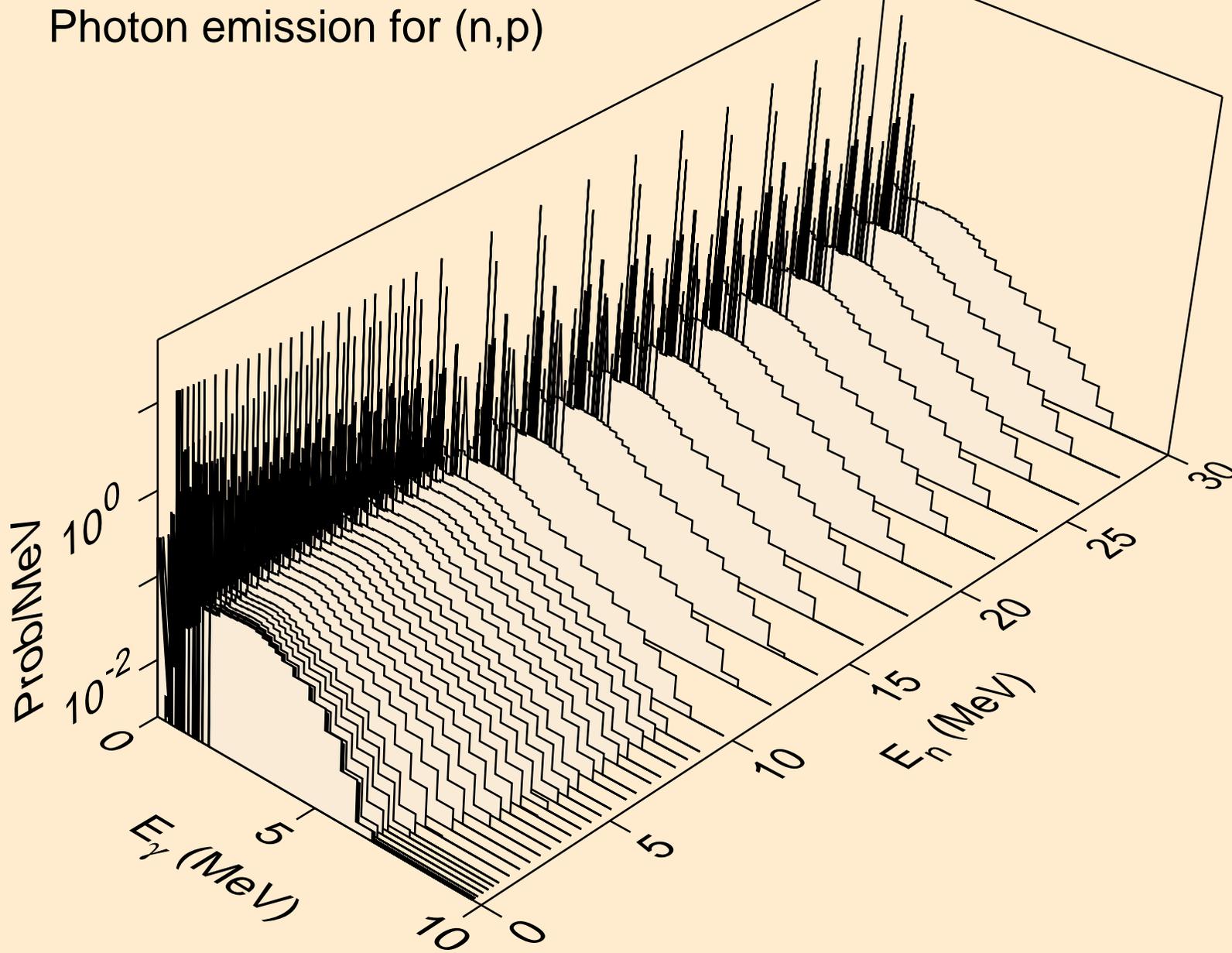Photon emission for (n,npa)

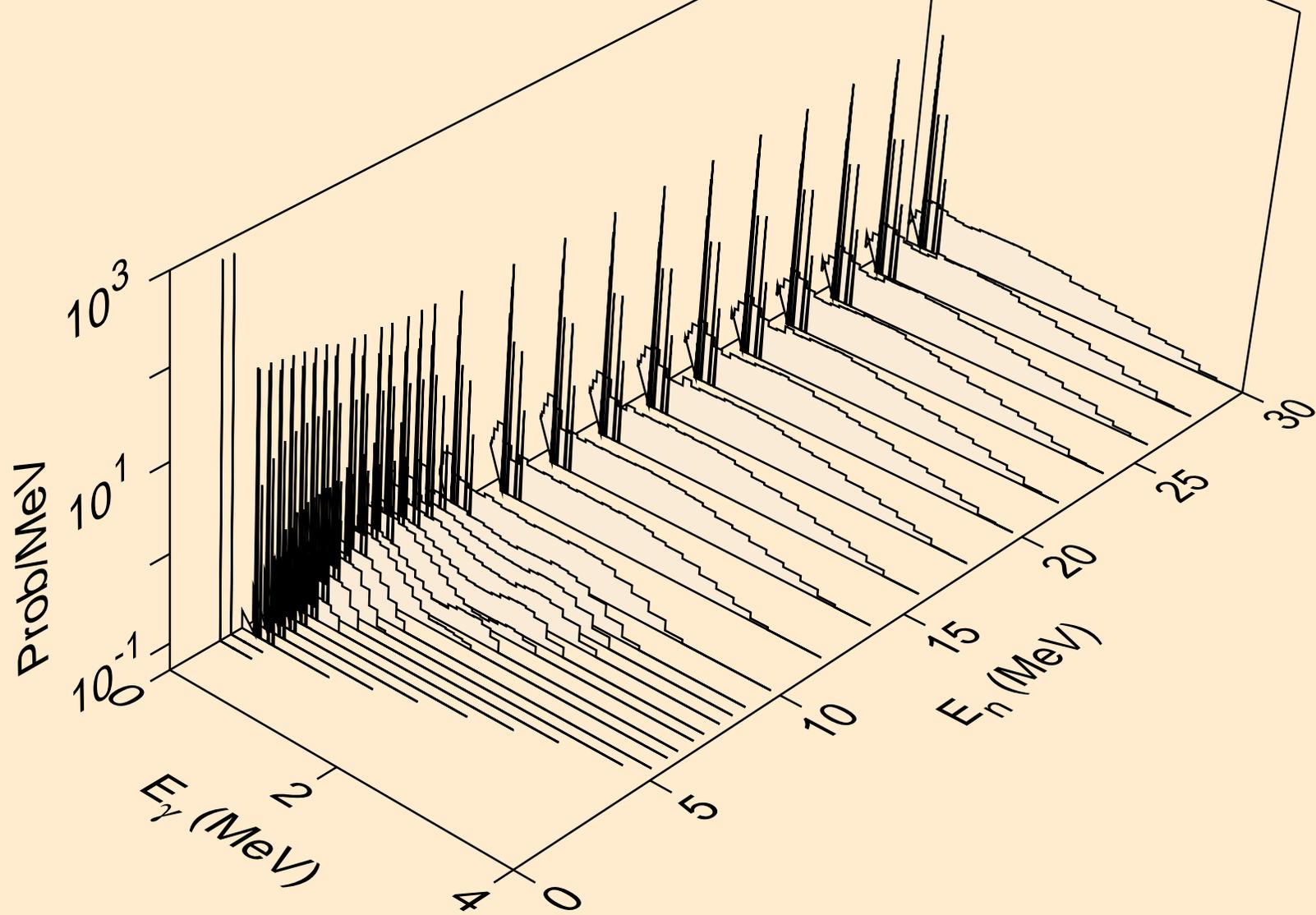Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Photon emission for (n,n*c)

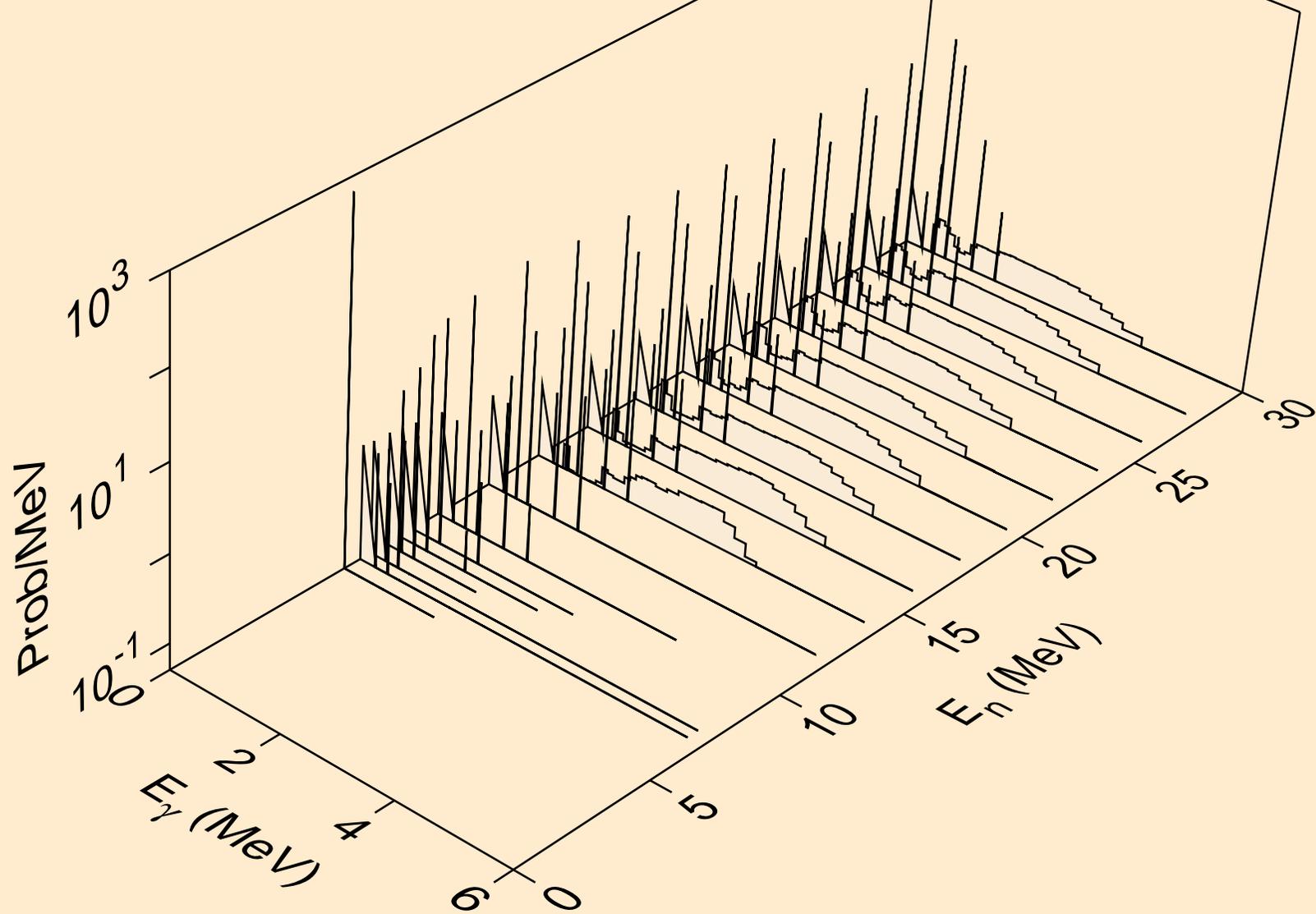Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Photon emission for (n,gma)

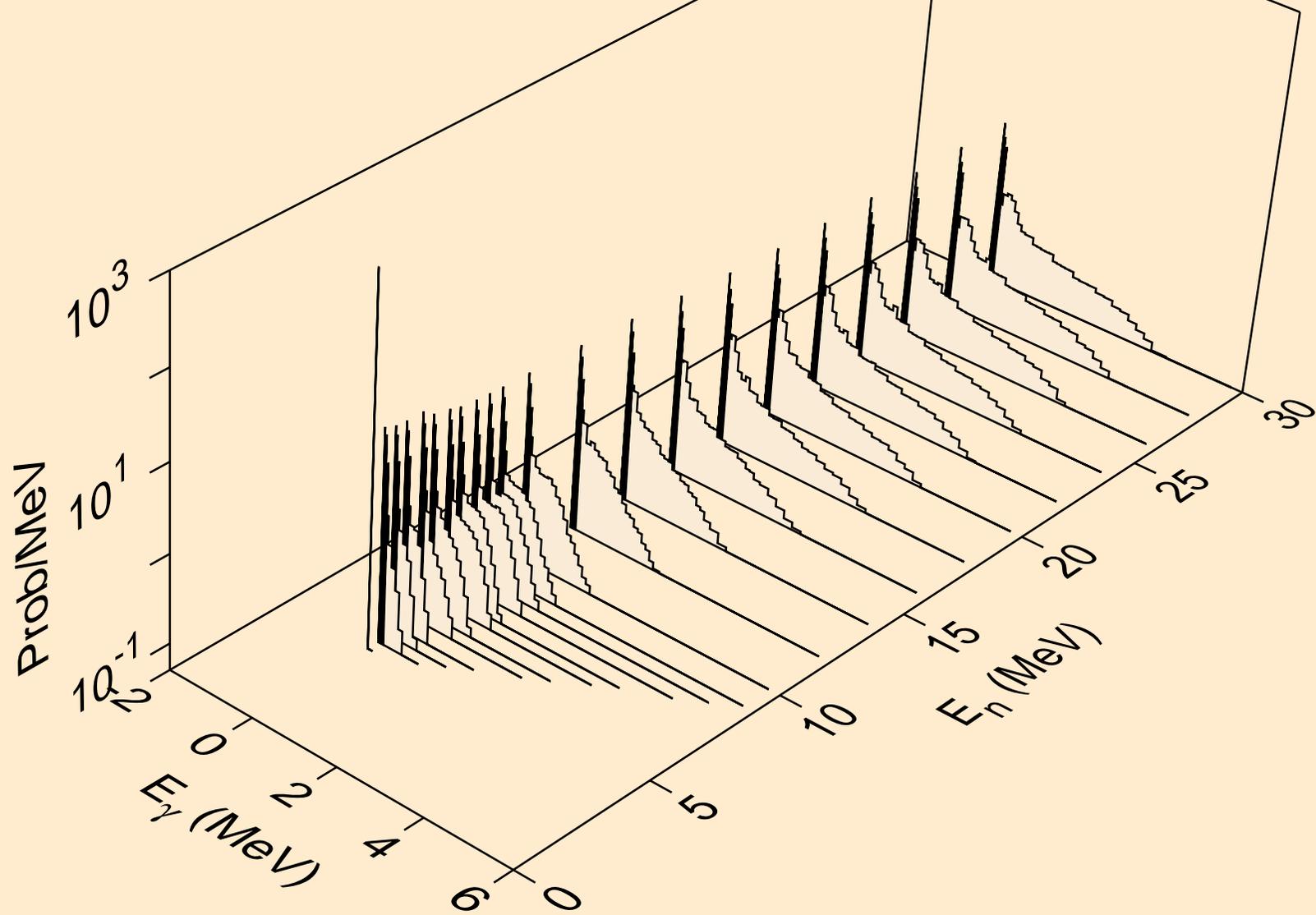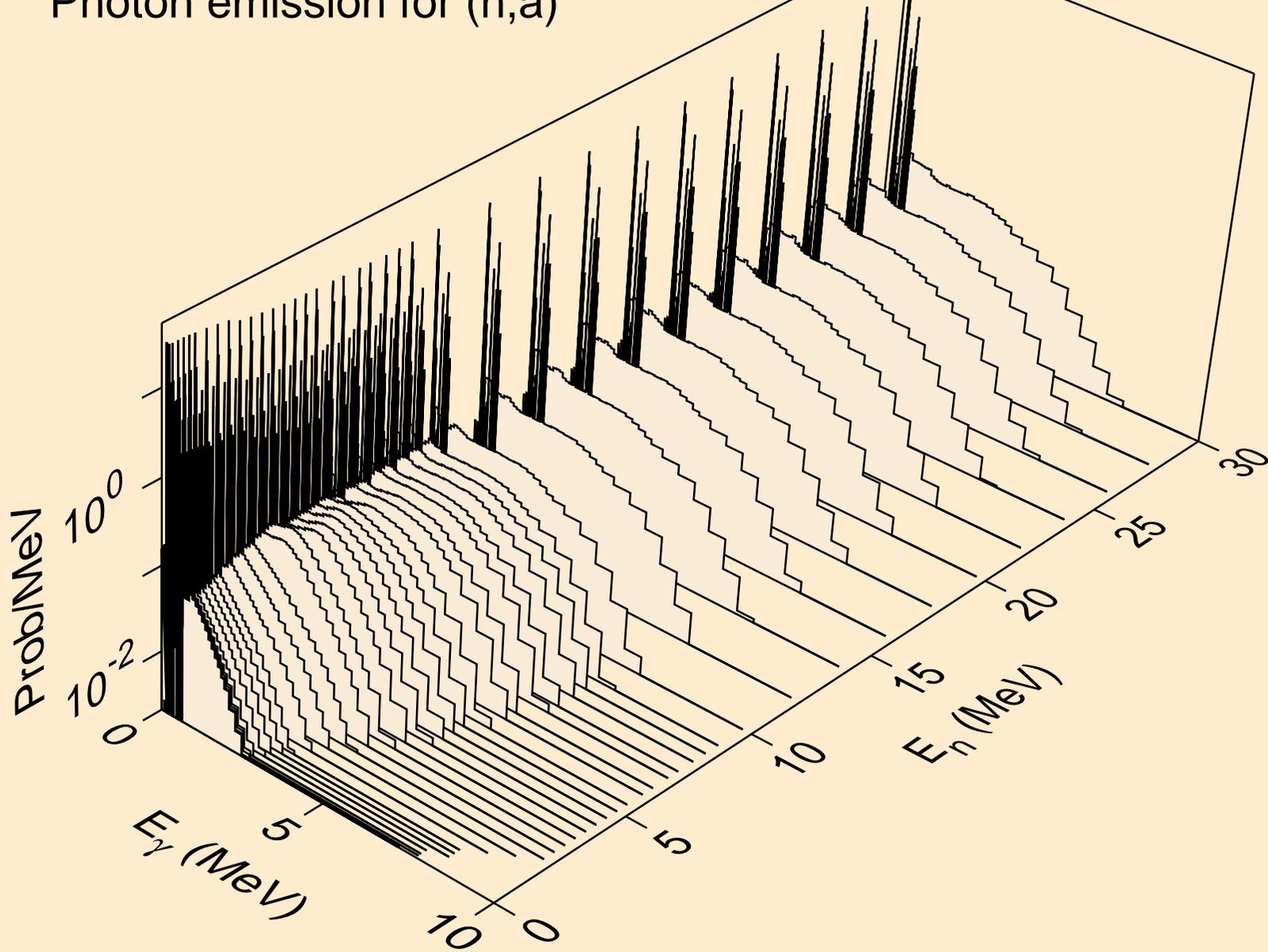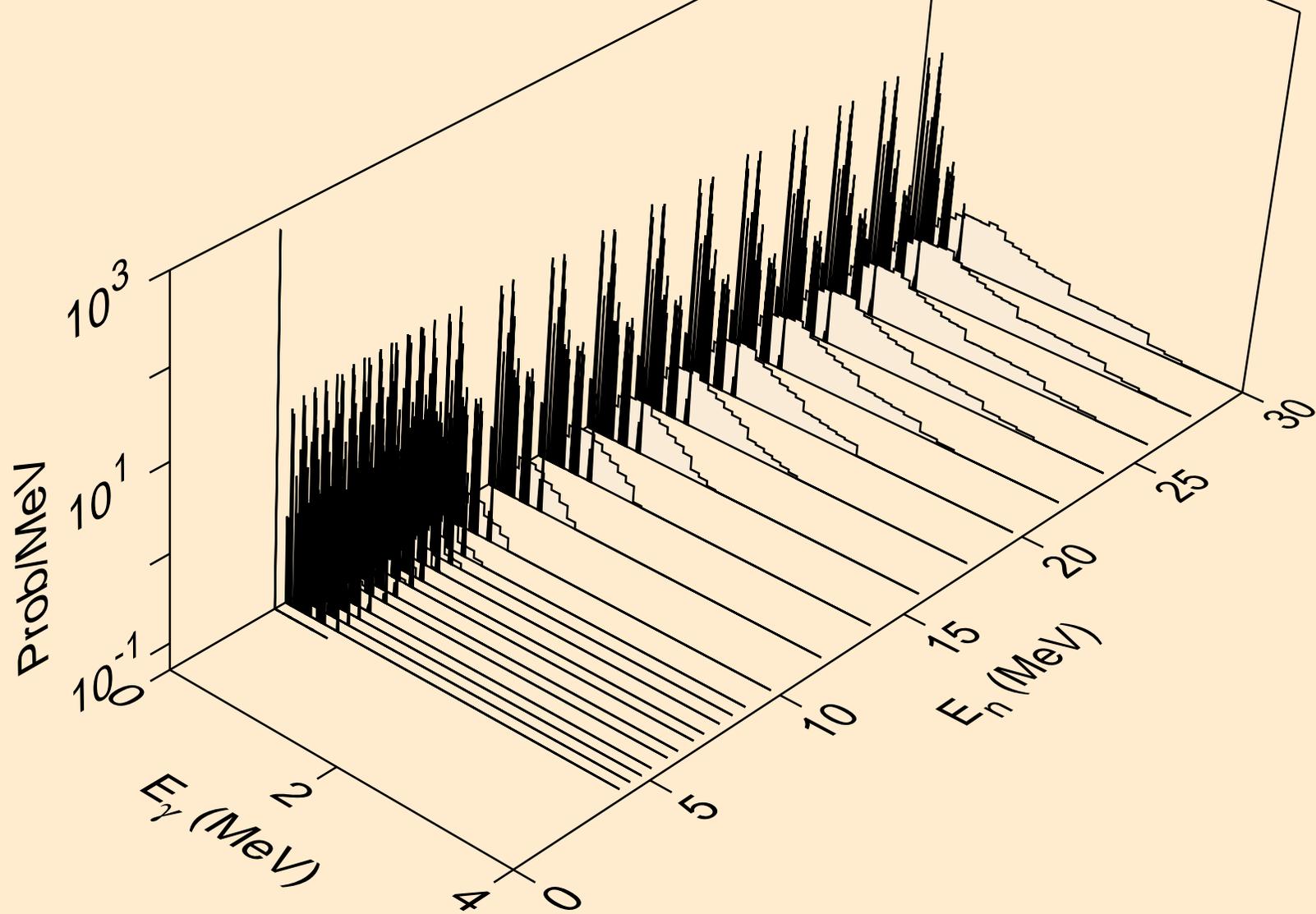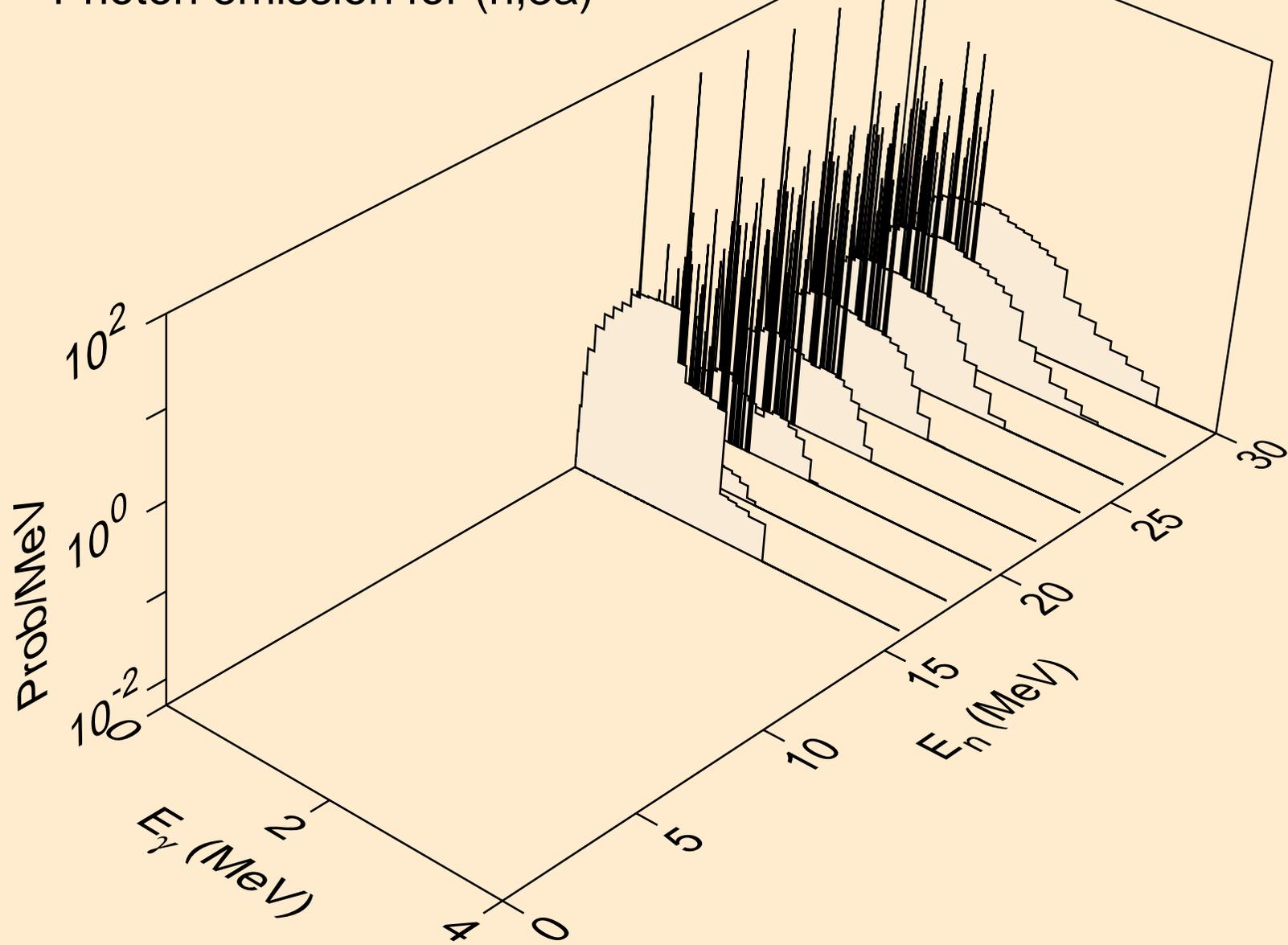Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Photon emission for (n,p)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Photon emission for (n,d)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Photon emission for (n,t)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Photon emission for (n,he3)

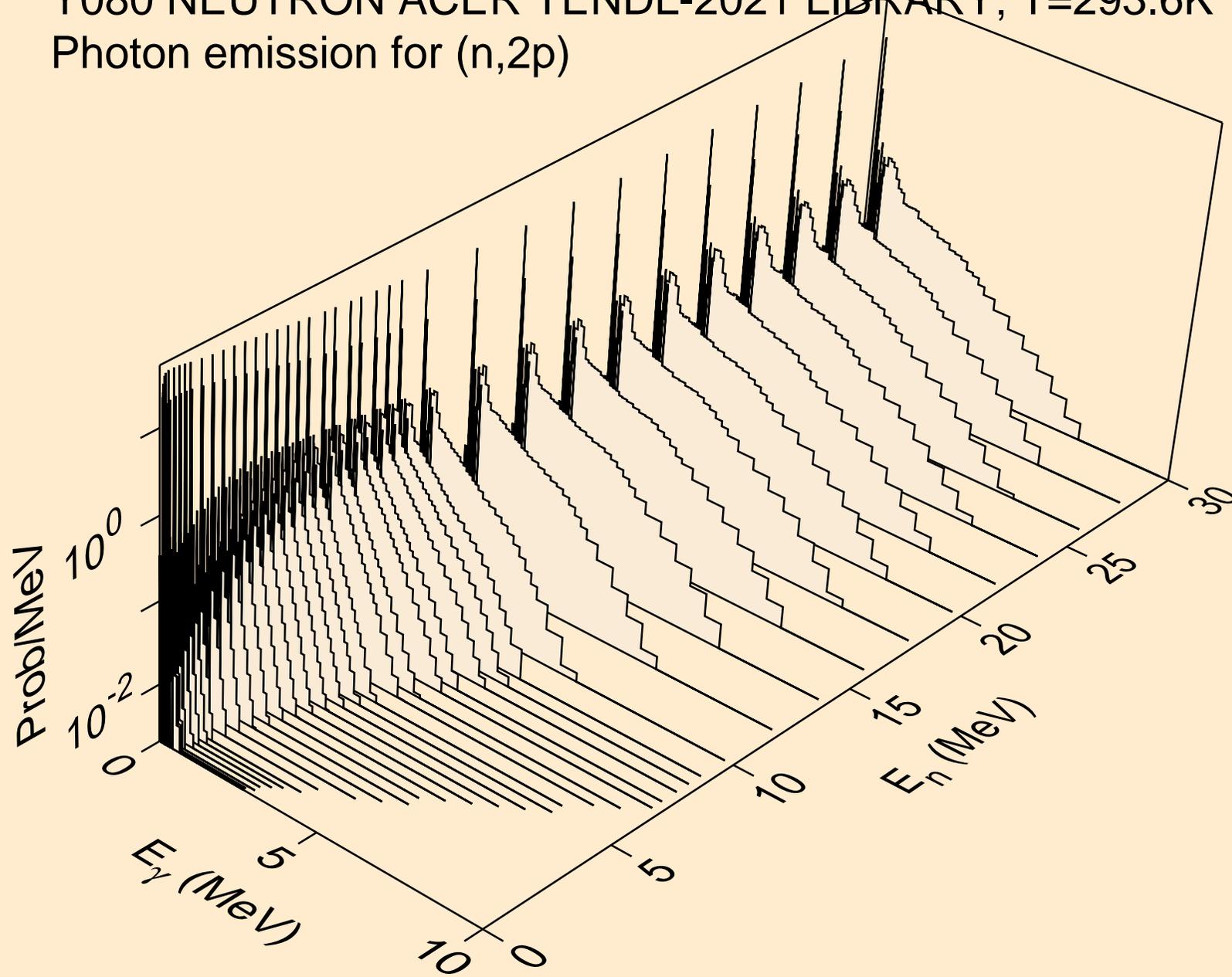Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Photon emission for (n,a)

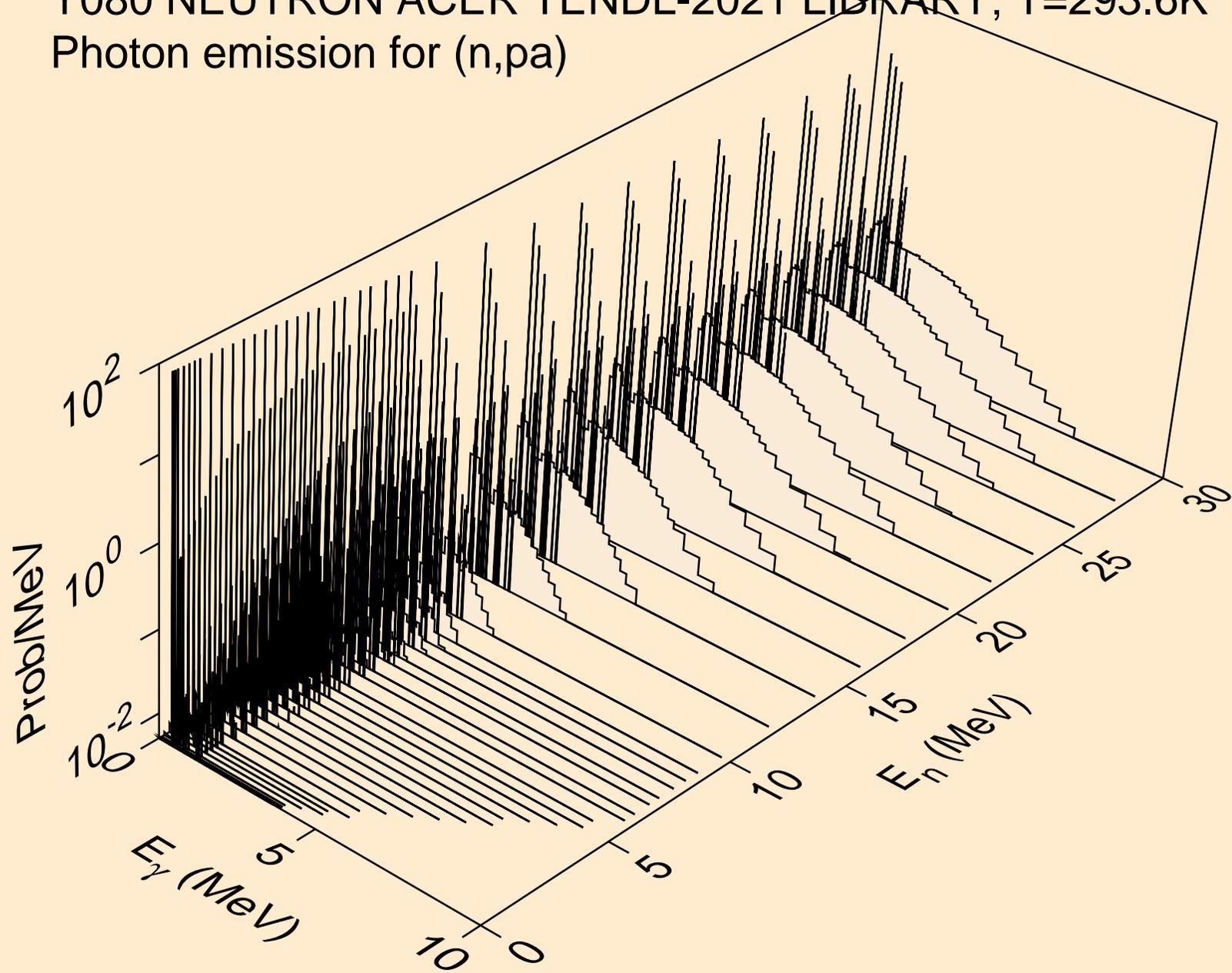Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Photon emission for (n,2a)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
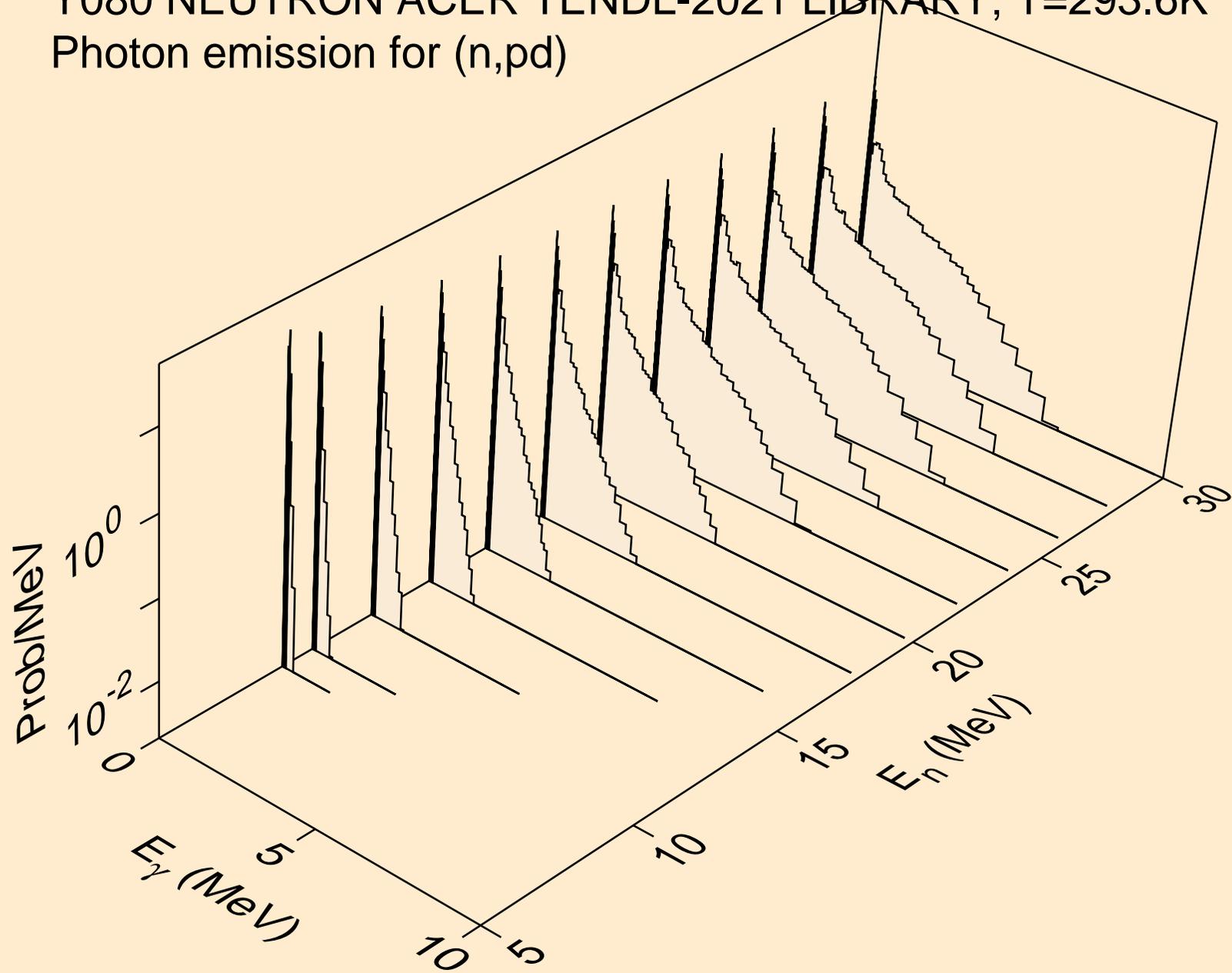Photon emission for (n,3a)

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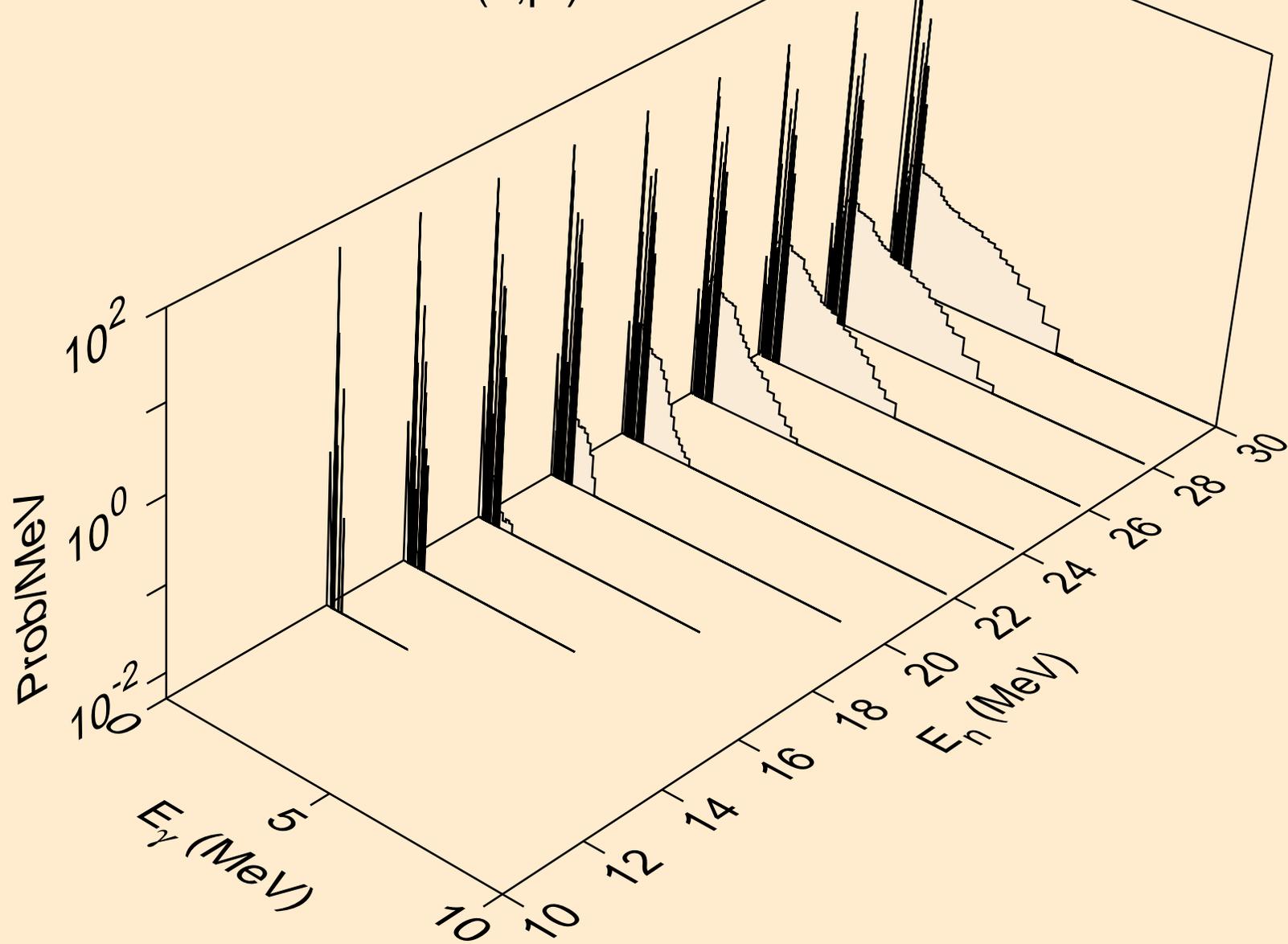Photon emission for (n,2p)

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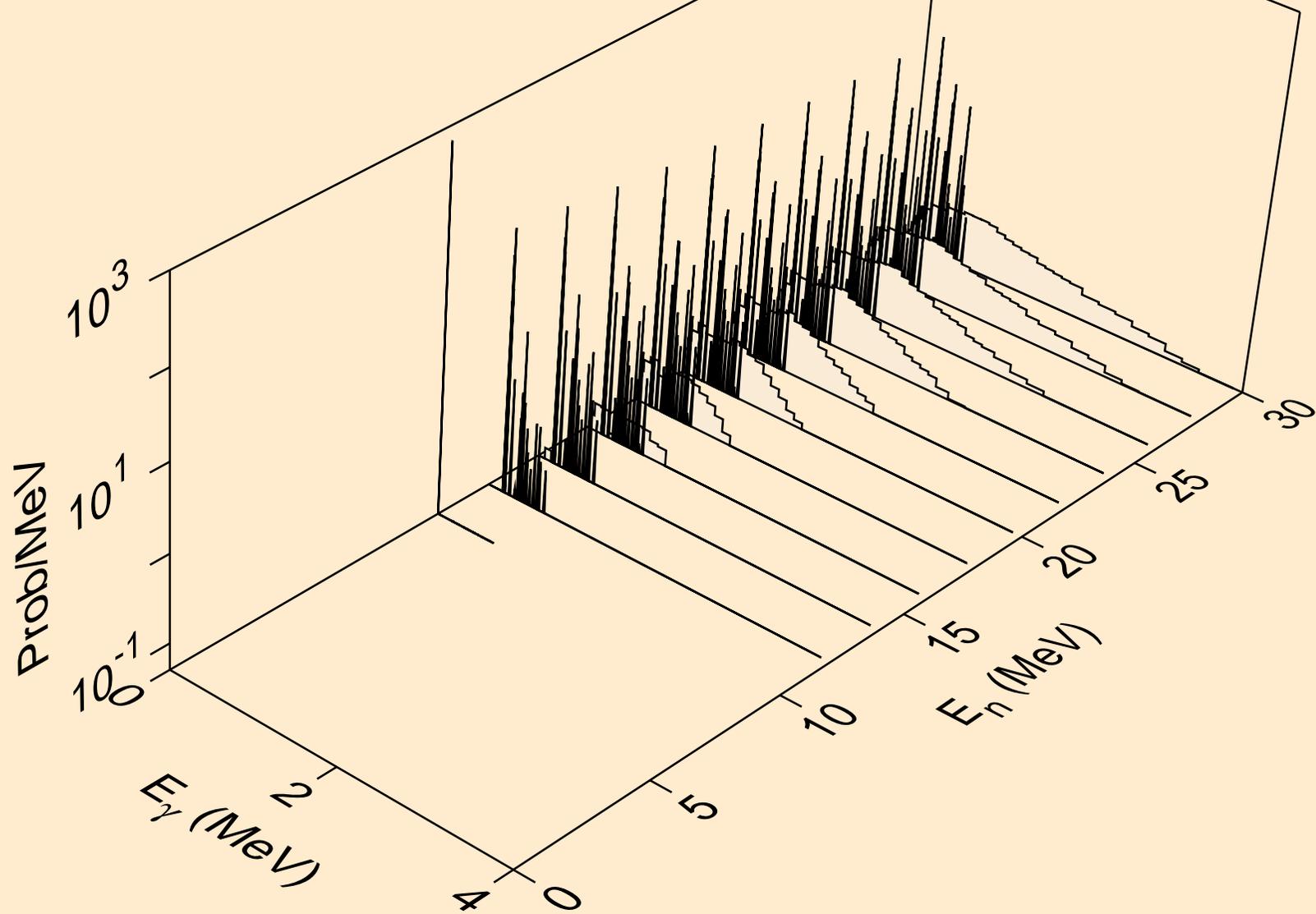Photon emission for (n,pa)

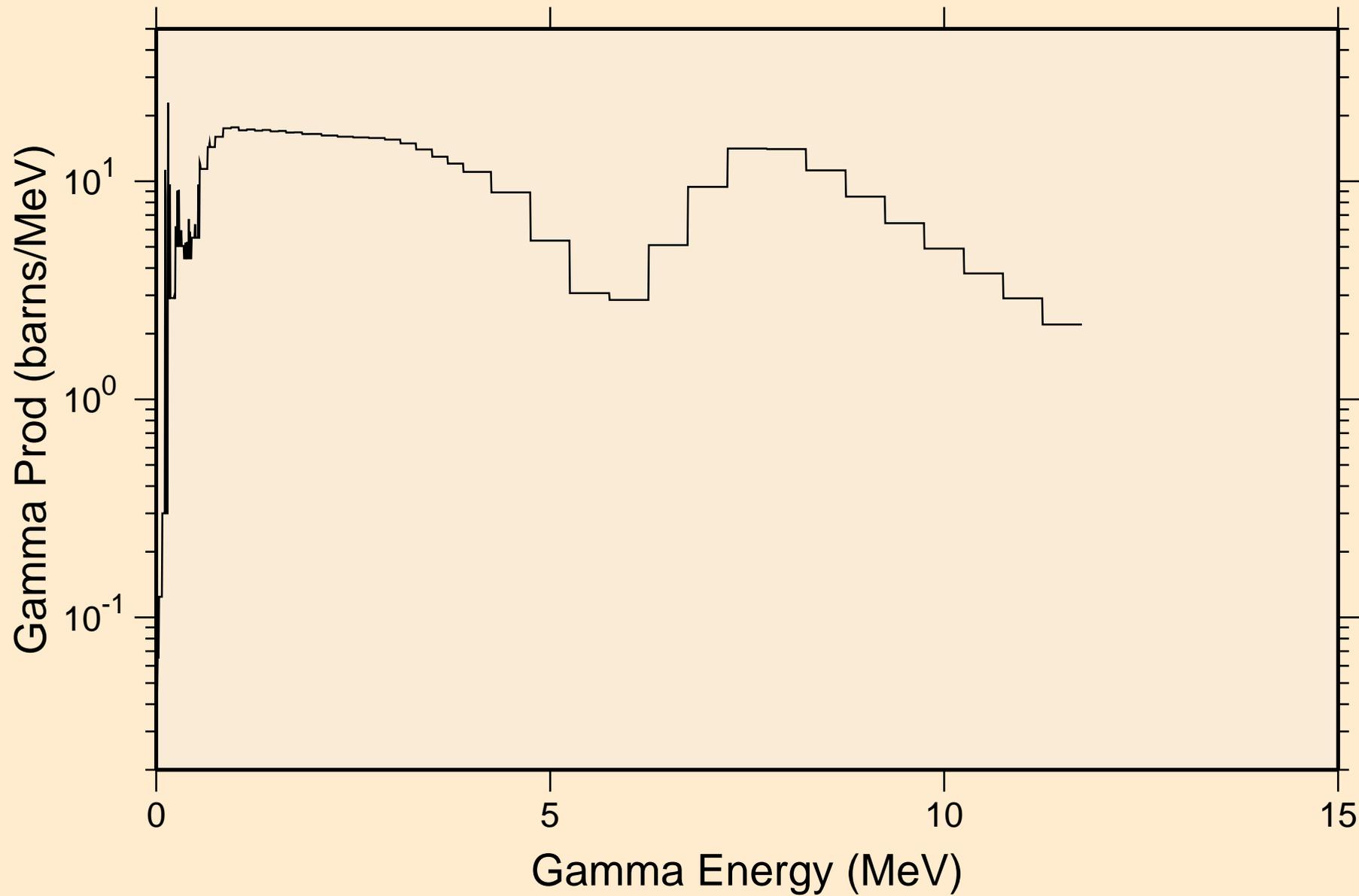Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Photon emission for (n,pd)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
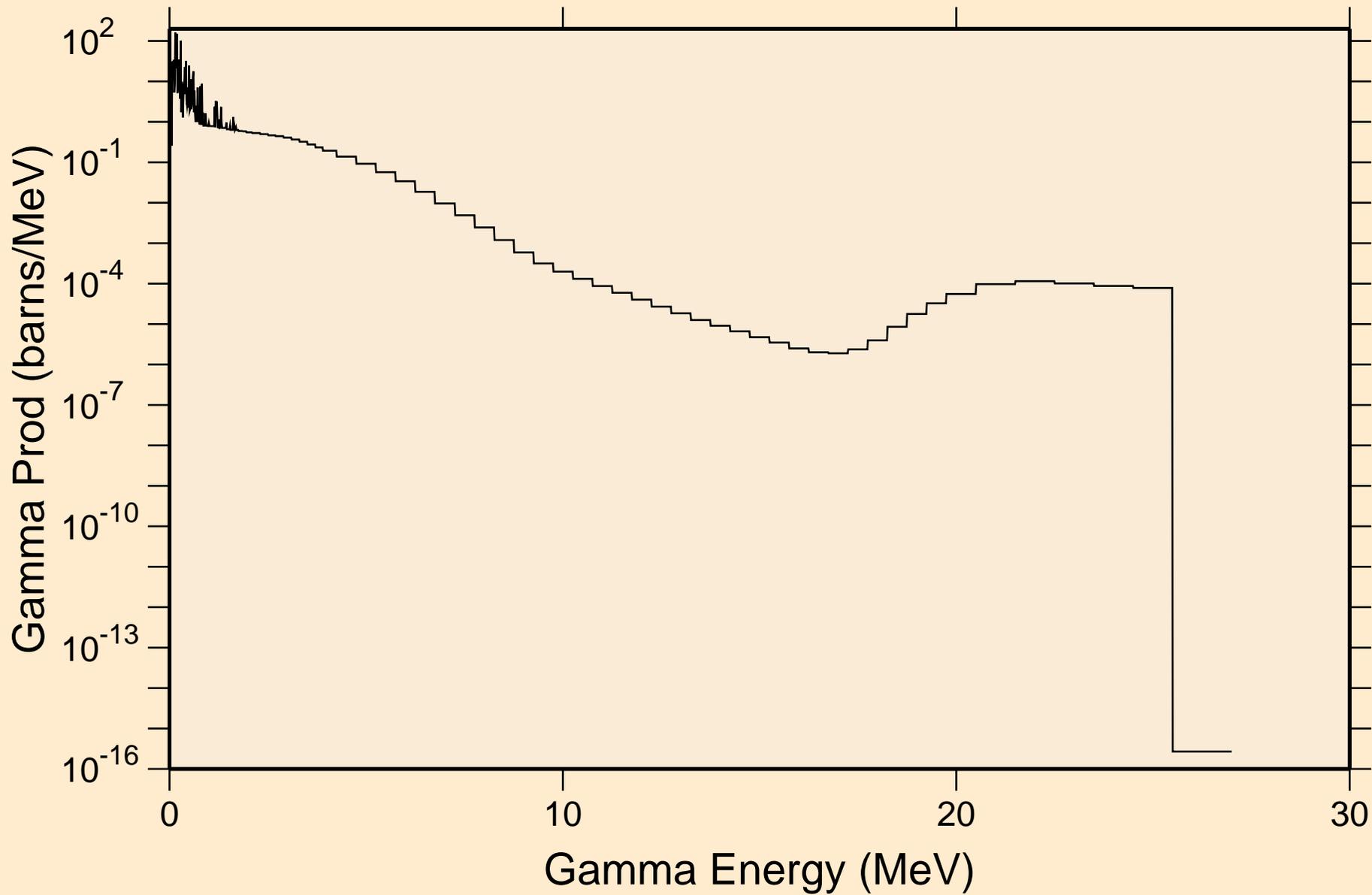Photon emission for (n,pt)

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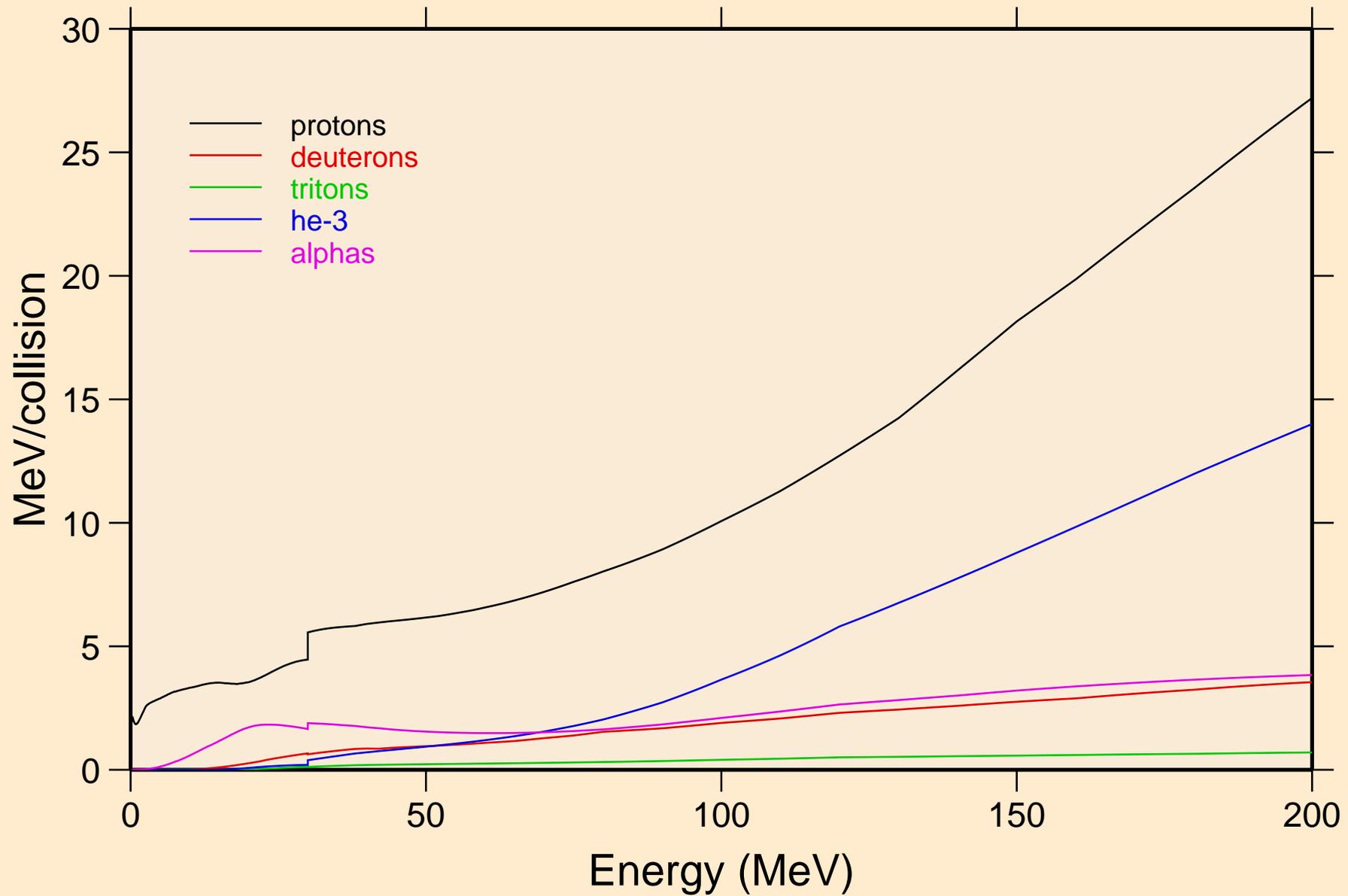Photon emission for (n,da)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
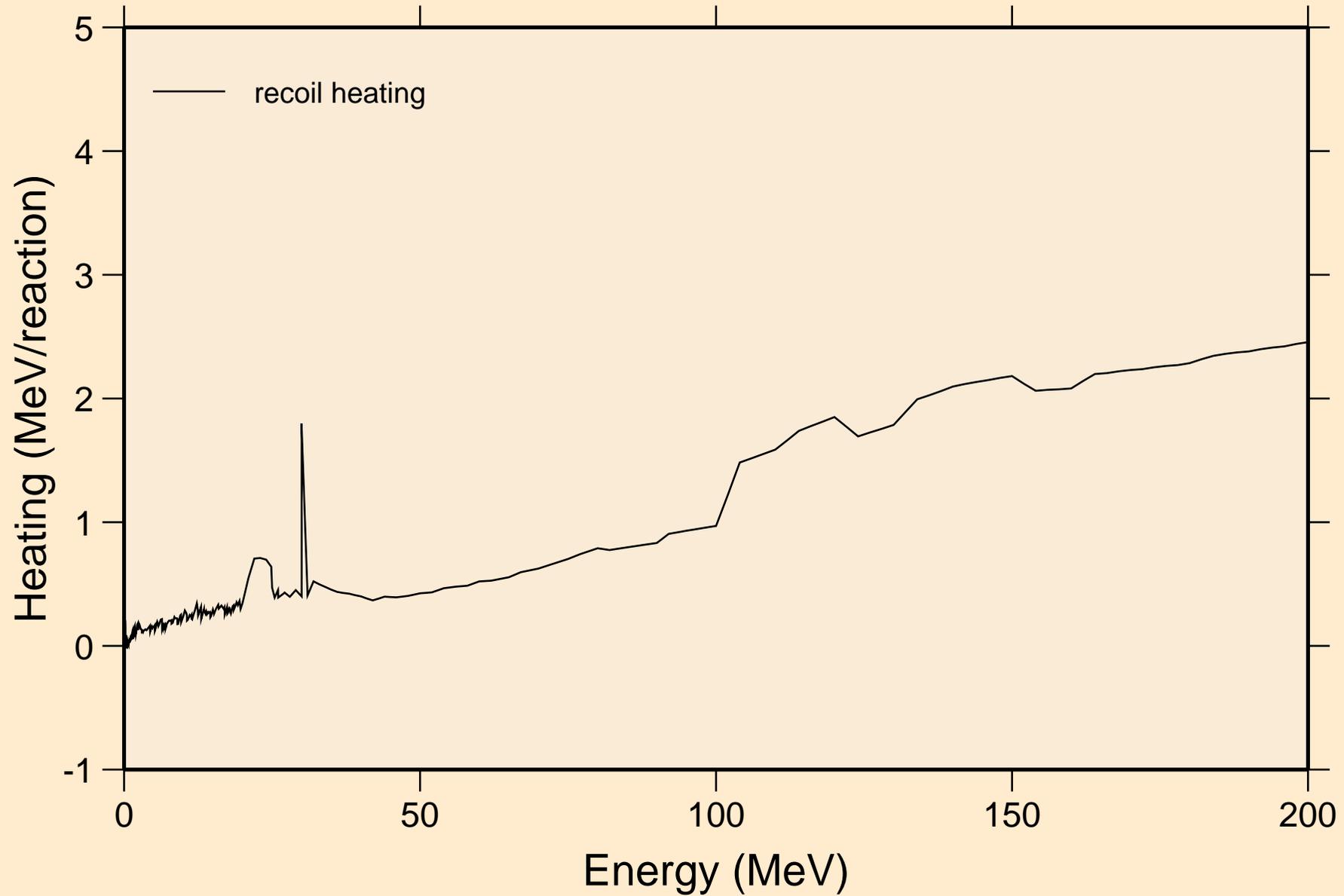thermal capture photon spectrum

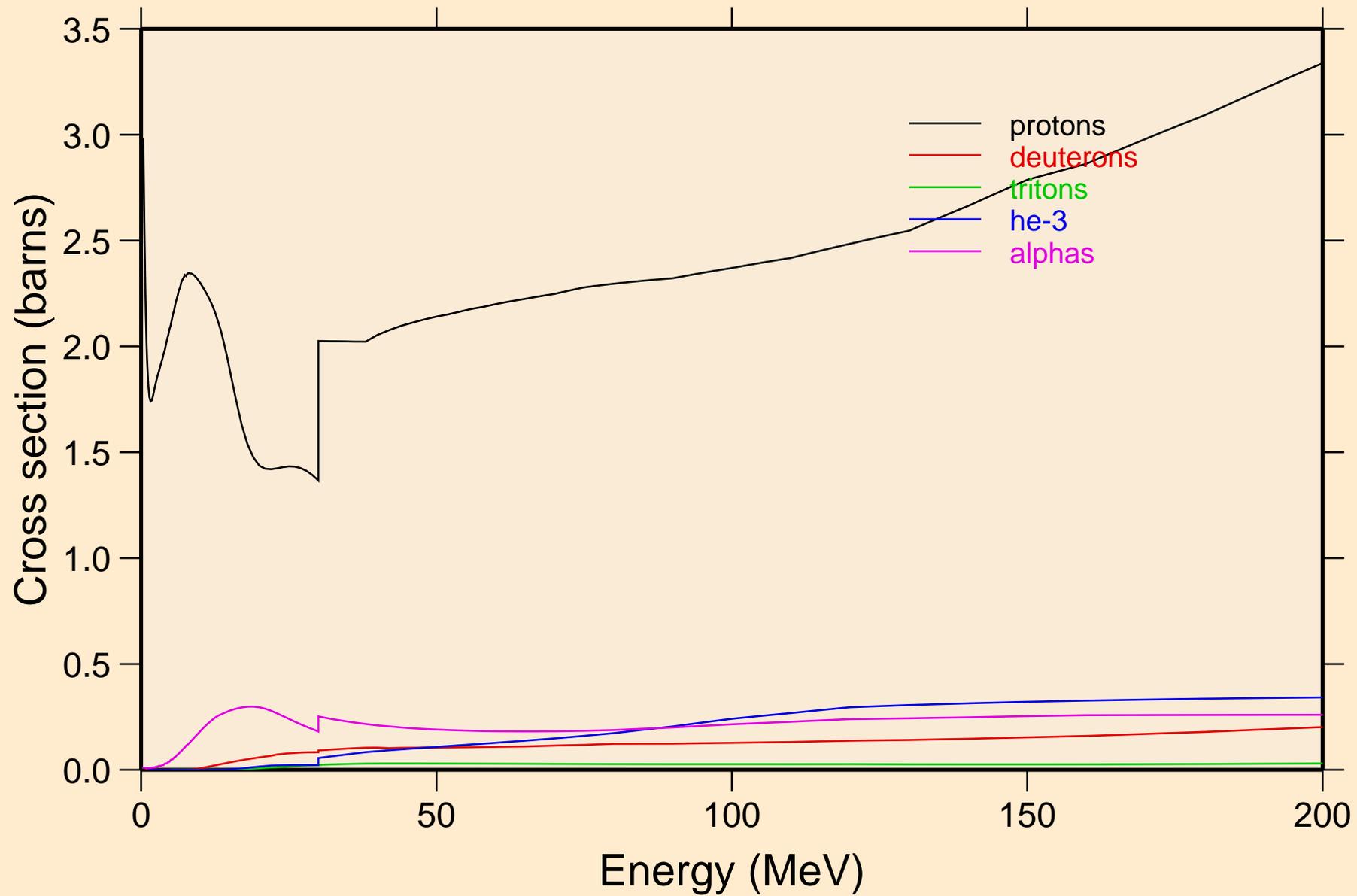Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
14 MeV photon spectrum

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
Particle heating contributions

- protons
- deuterons
- tritons
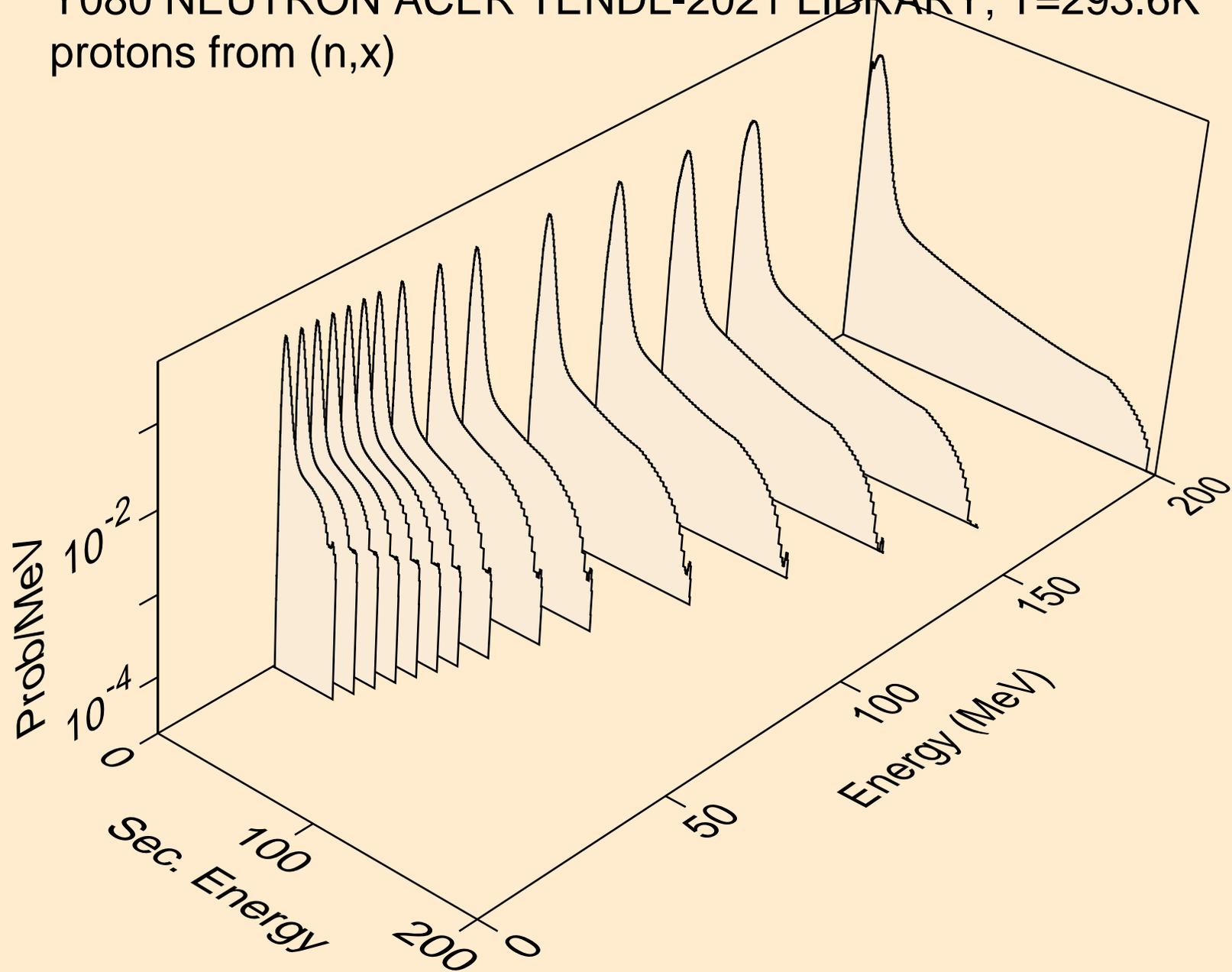- he-3
- alphas

MeV/collision

Energy (MeV)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
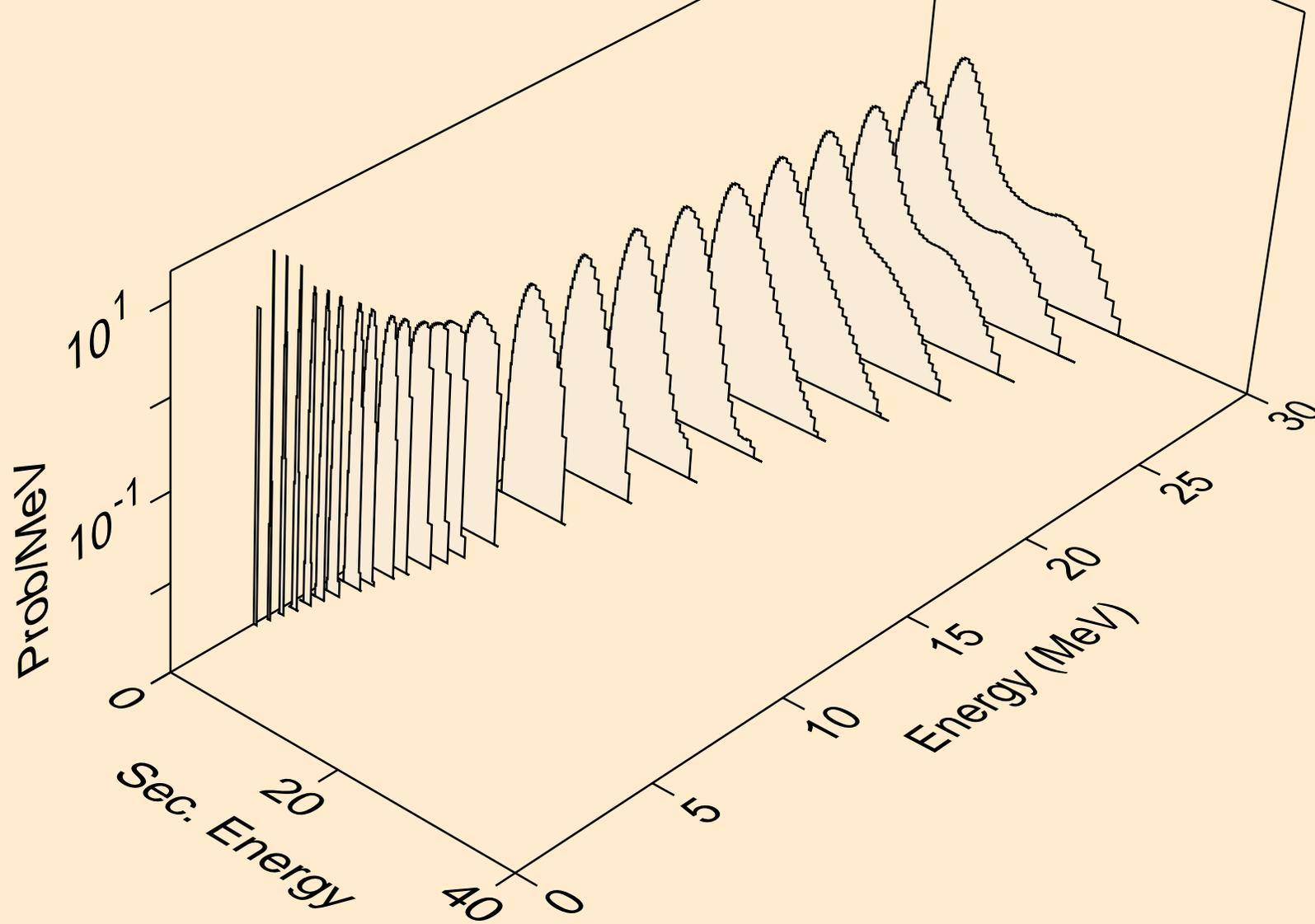Recoil Heating

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
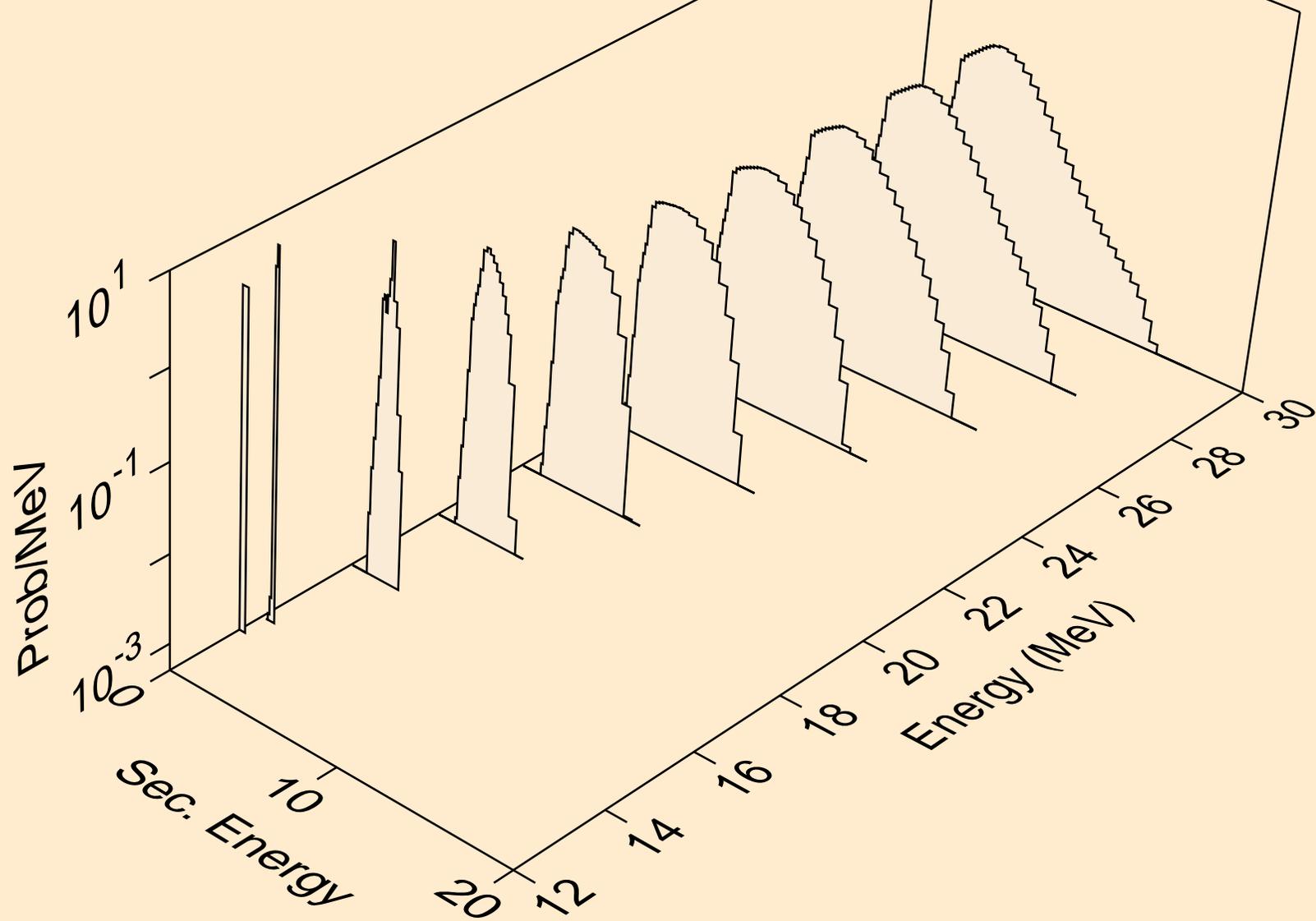Particle production cross sections

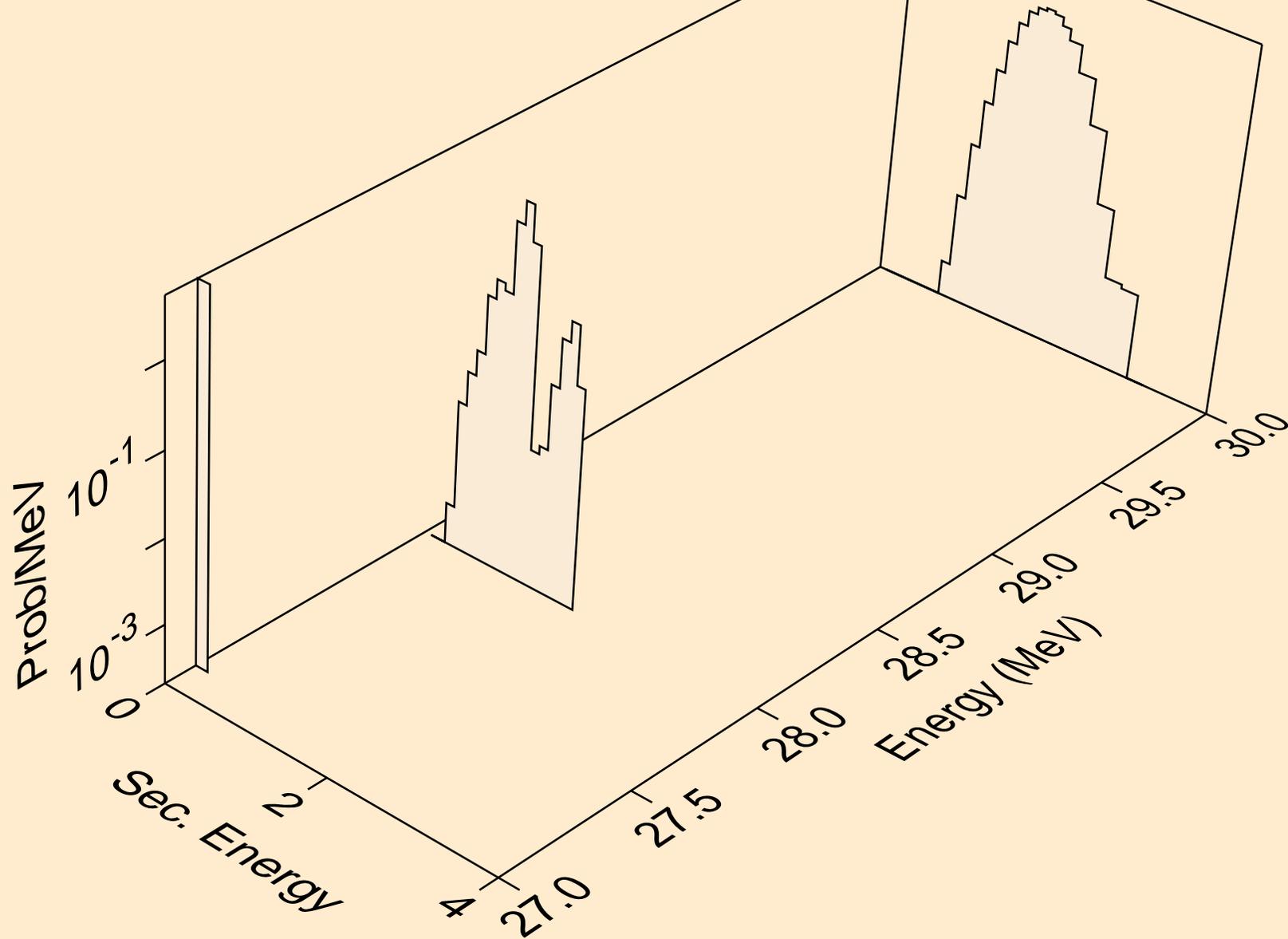Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
protons from (n,x)

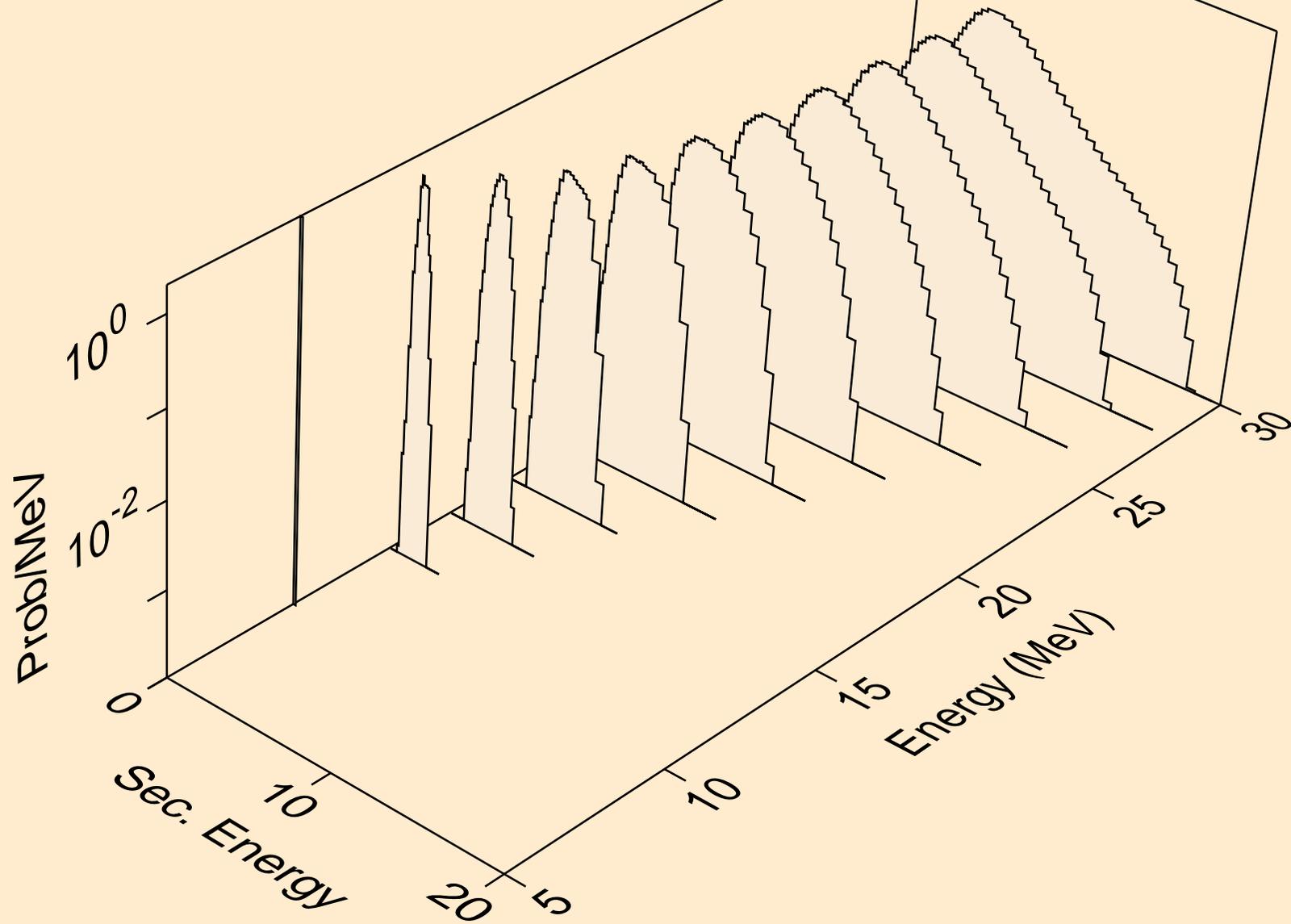Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
protons from (n,n*)p

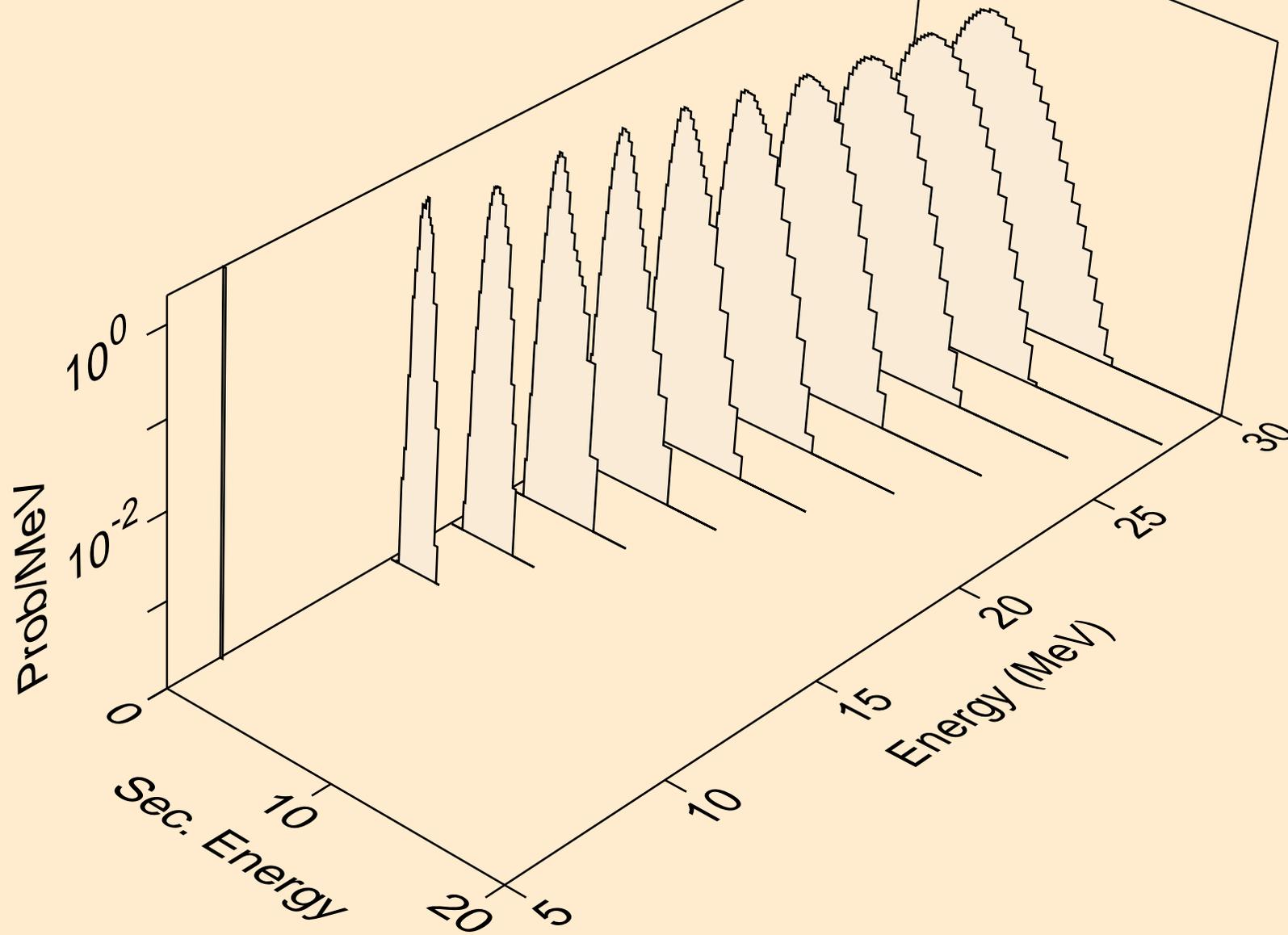Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
protons from (n,2np)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
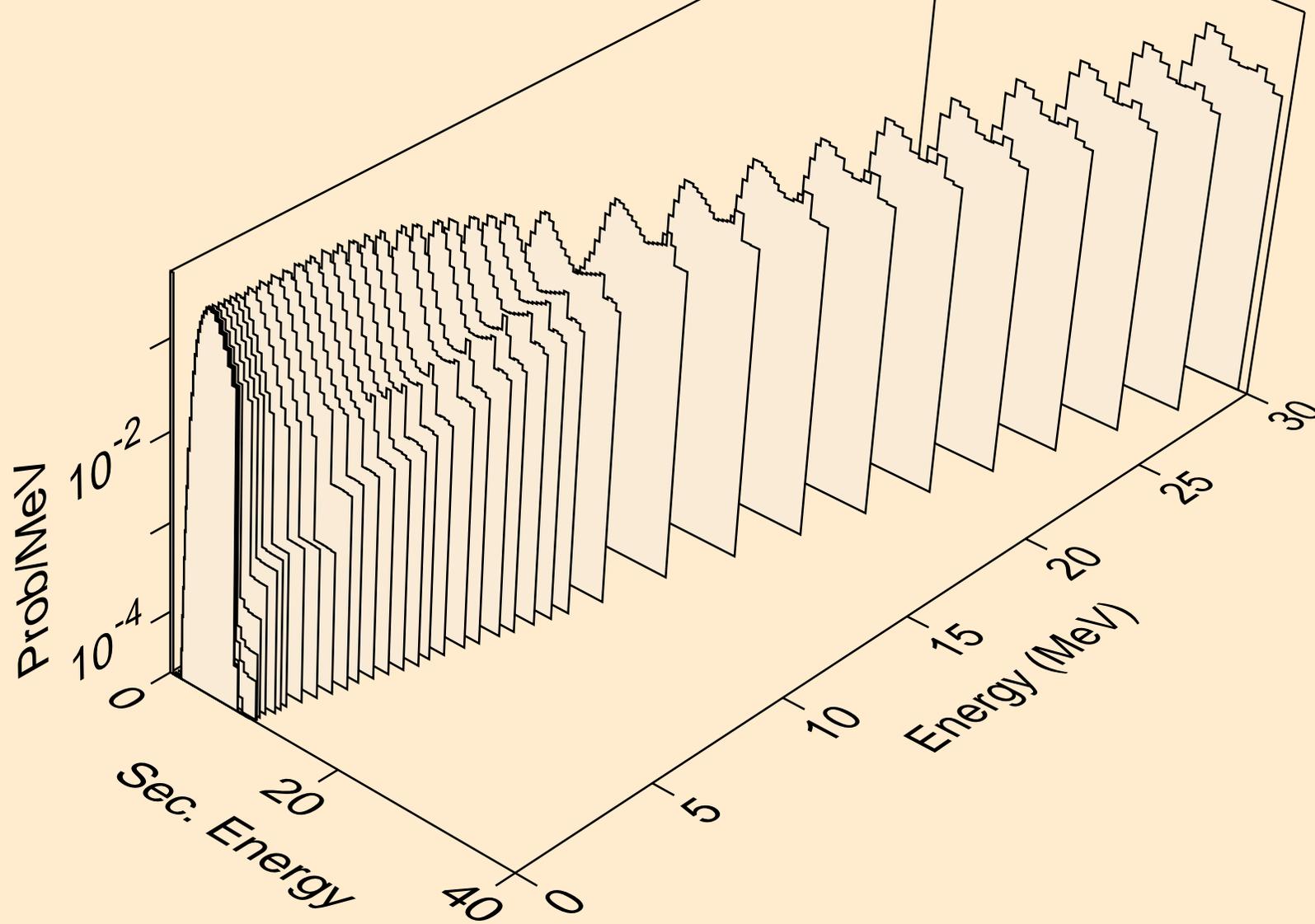protons from (n,3np)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
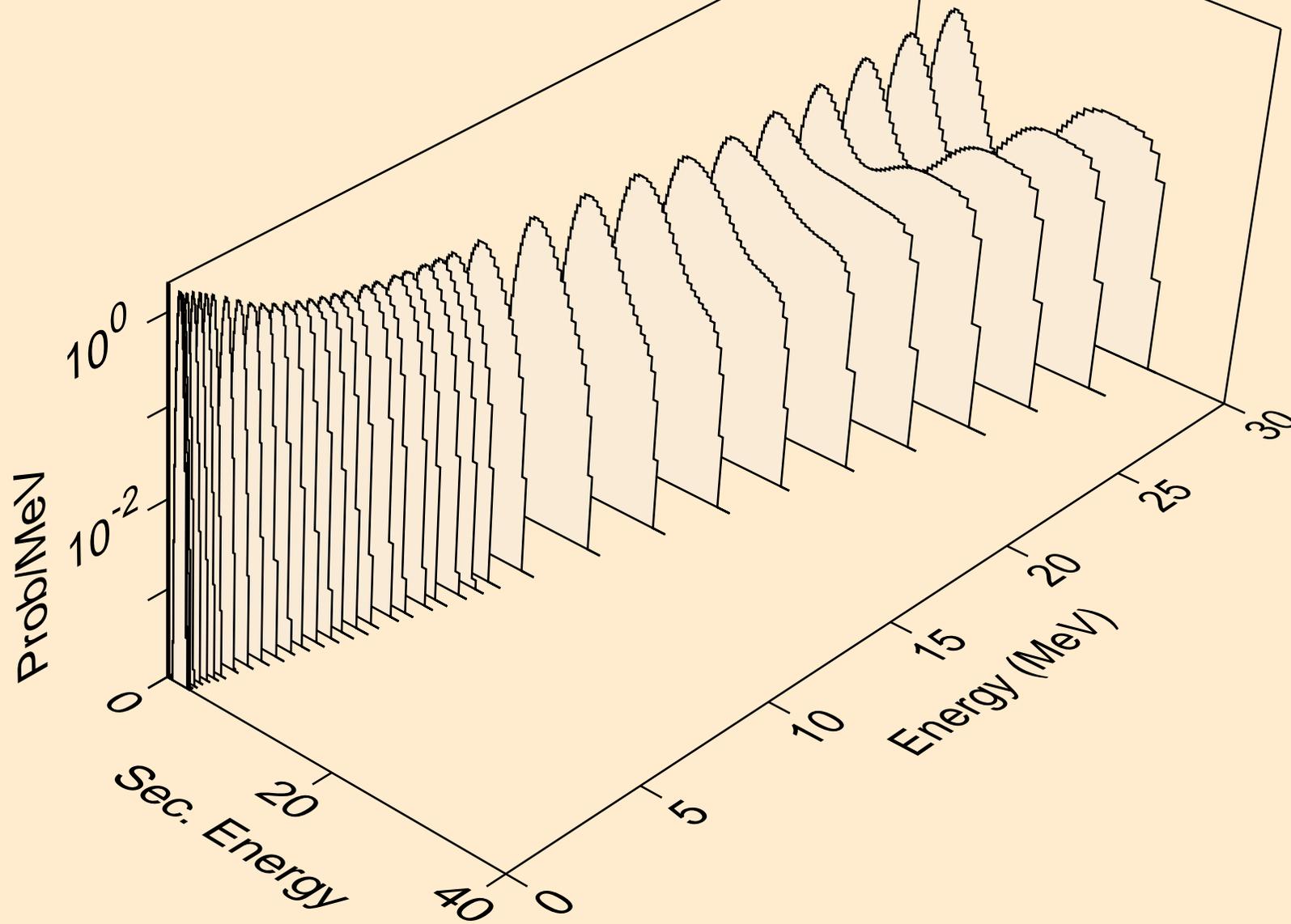protons from (n,2np)

ProbMeV

Sec. Energy

Energy (MeV)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
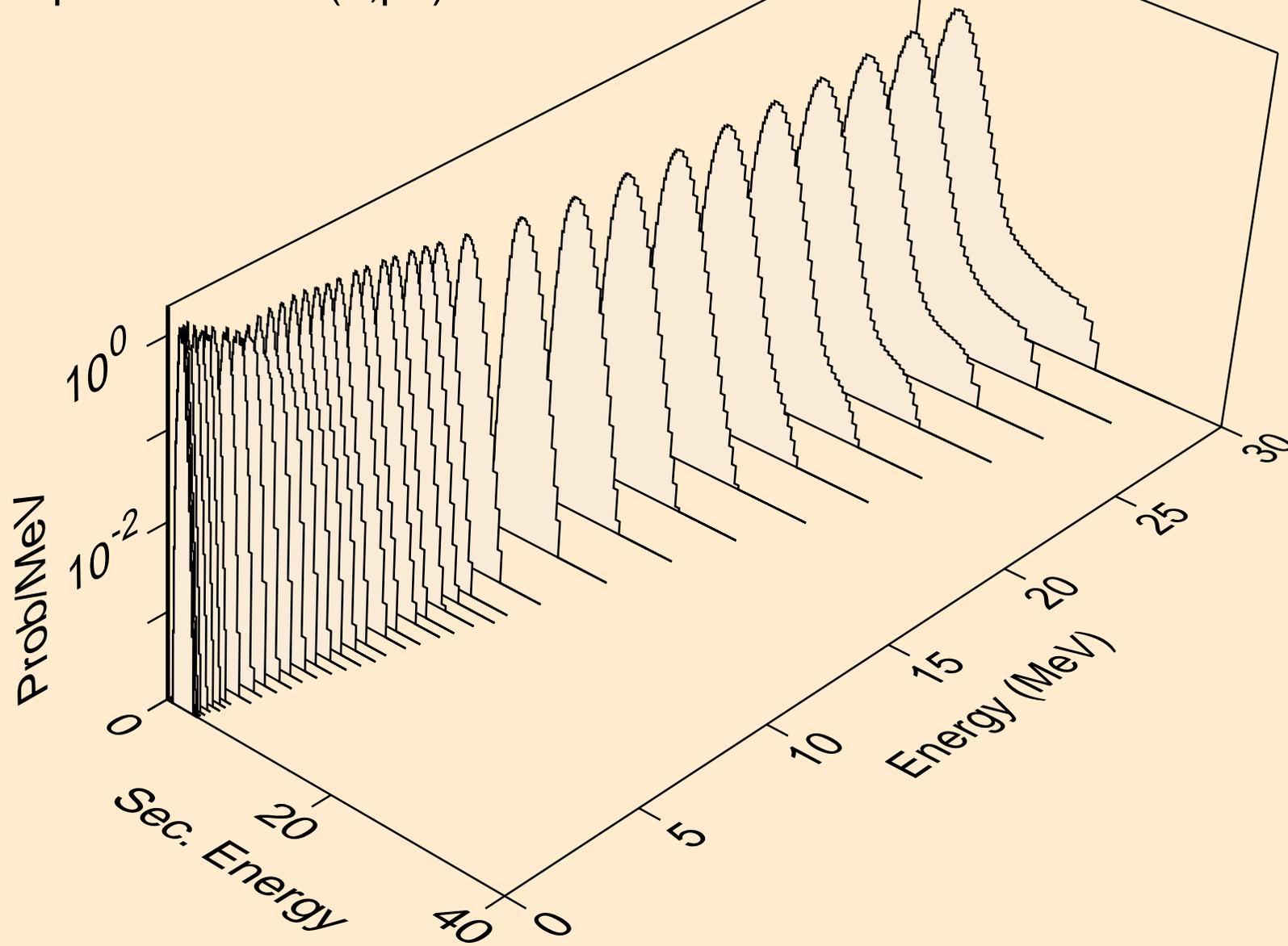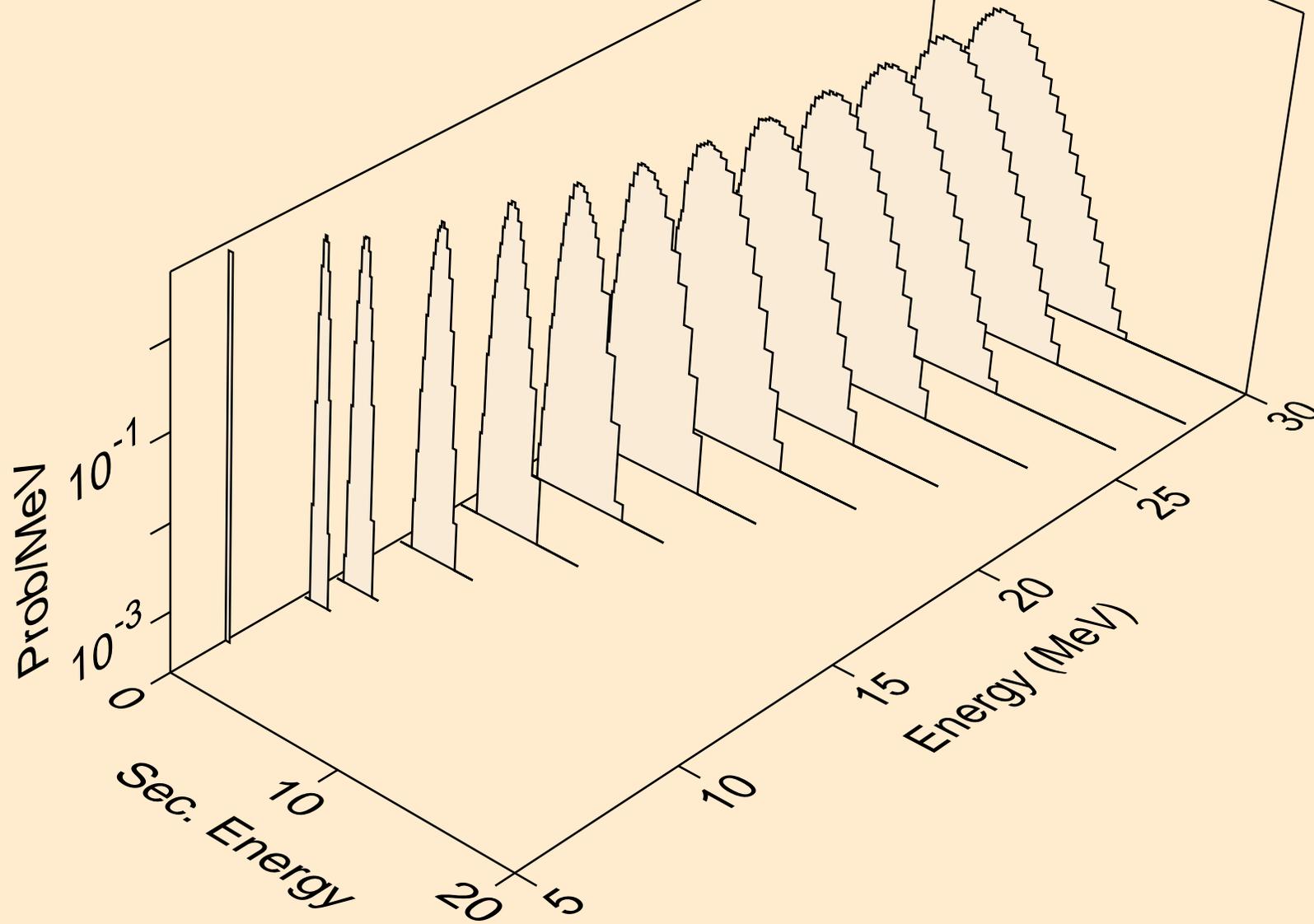protons from (n,npa)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
protons from (n,p)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
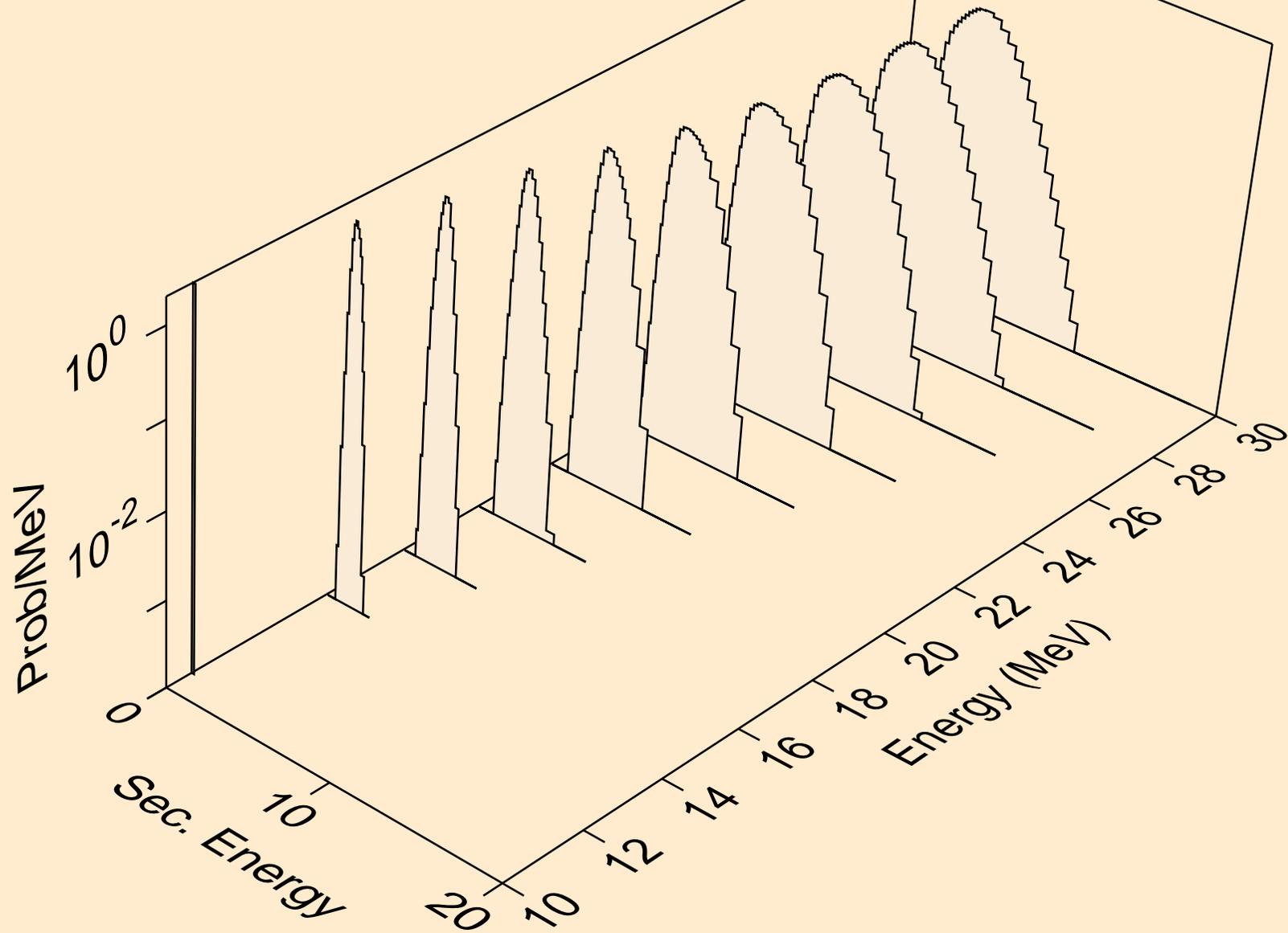protons from (n,2p)

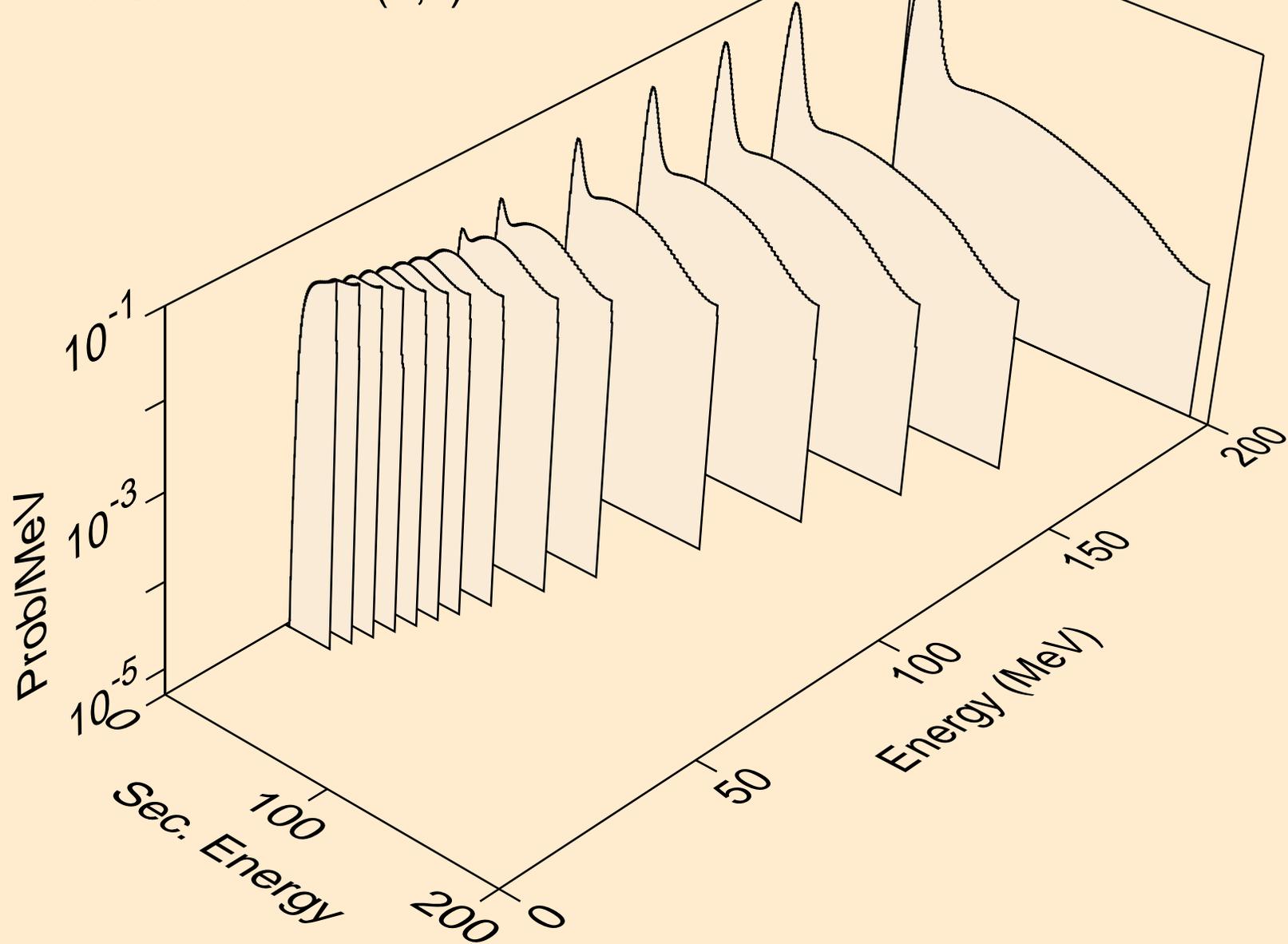Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
protons from (n,pa)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
protons from (n,pd)
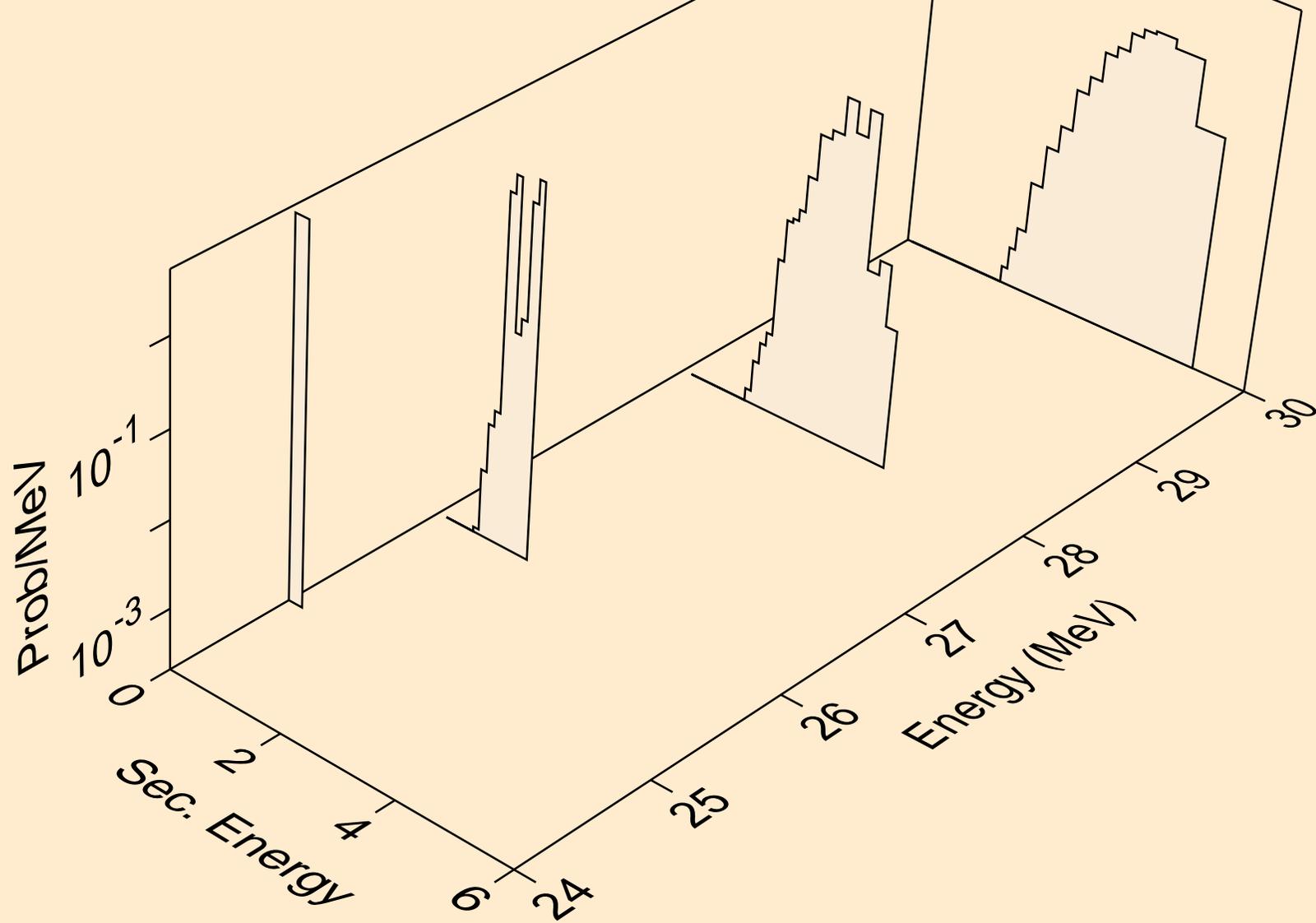
Prob/MeV

Sec. Energy

Energy (MeV)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
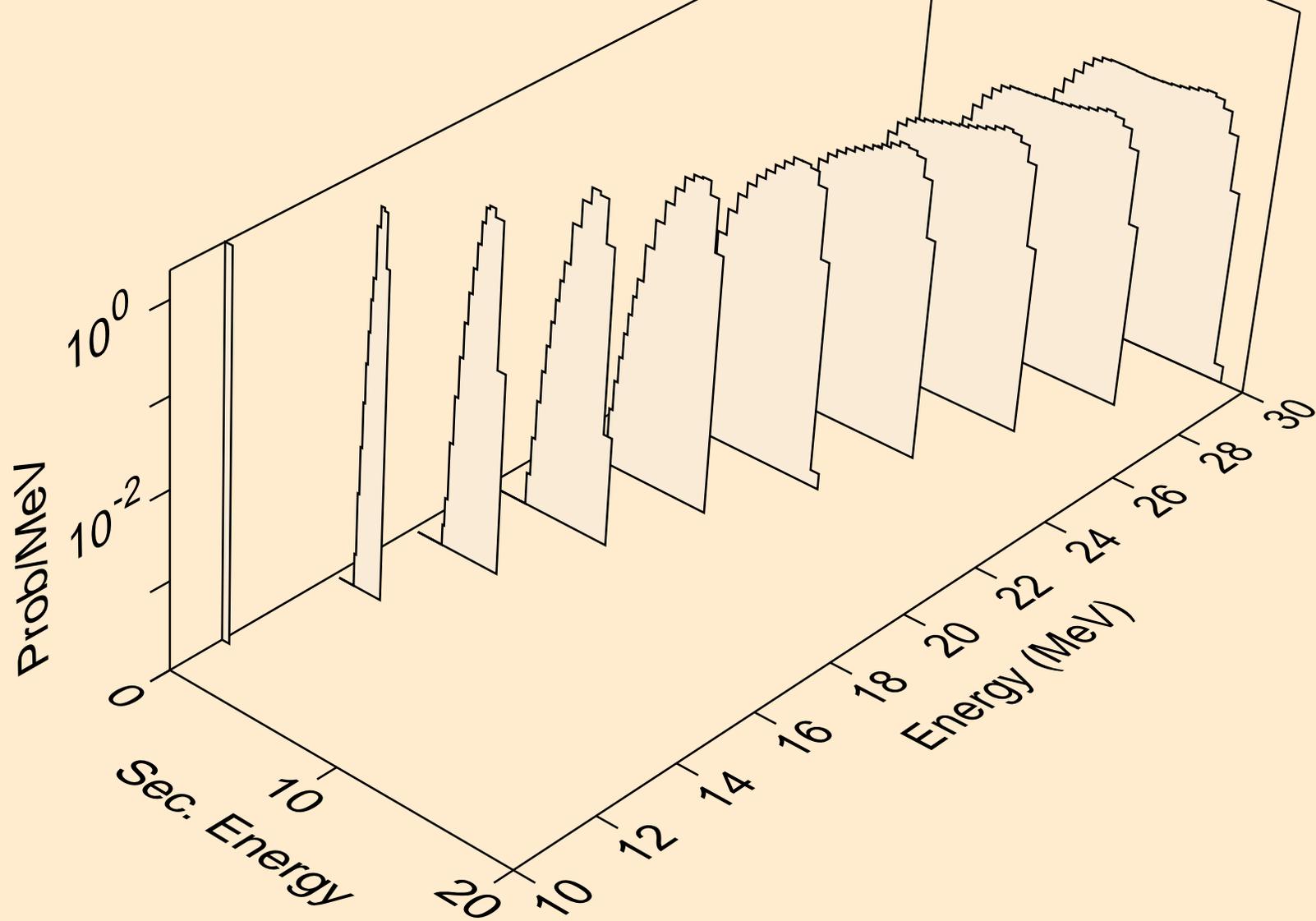protons from (n,pt)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
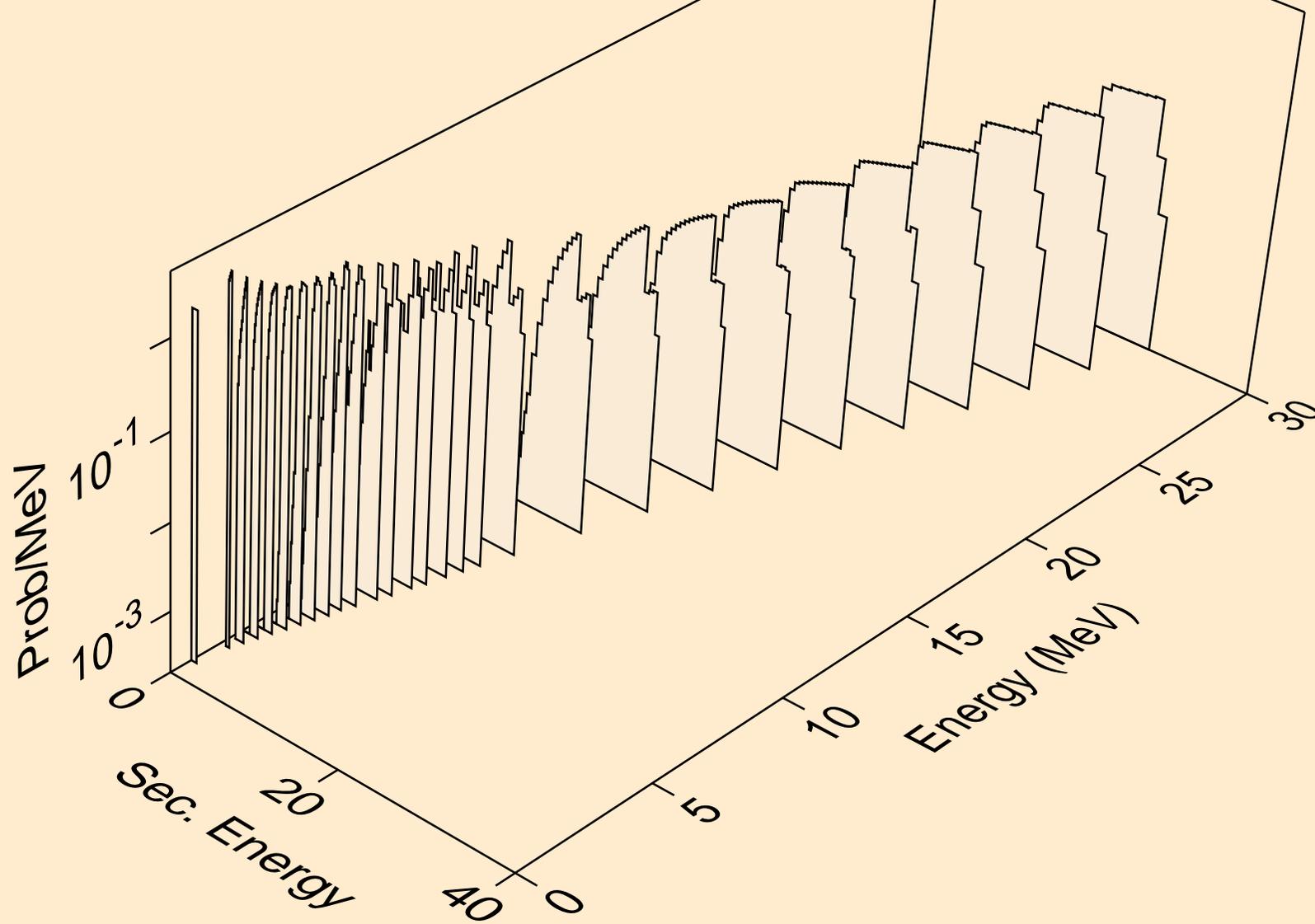deuterons from (n,x)

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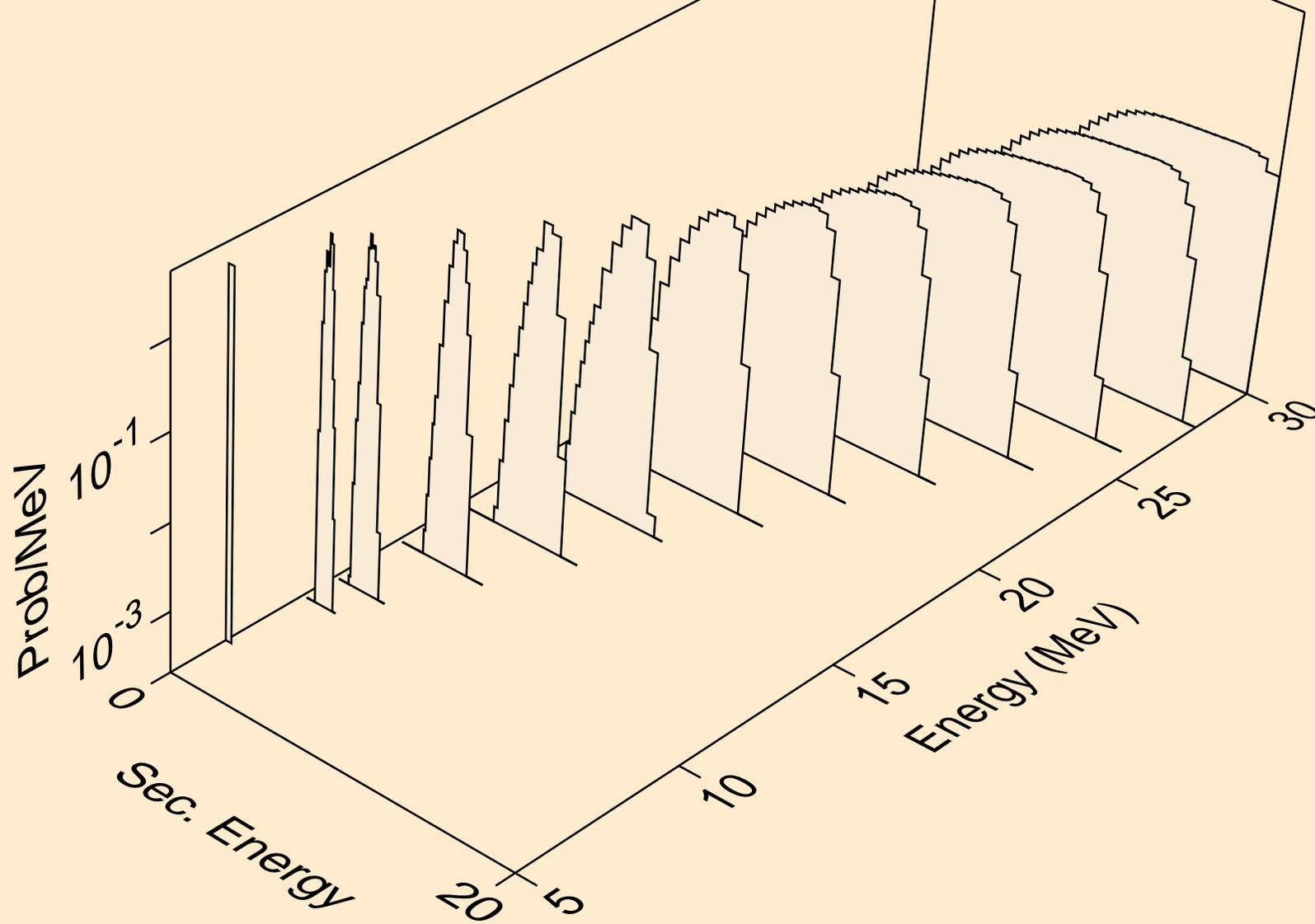deuterons from (n,2nd)

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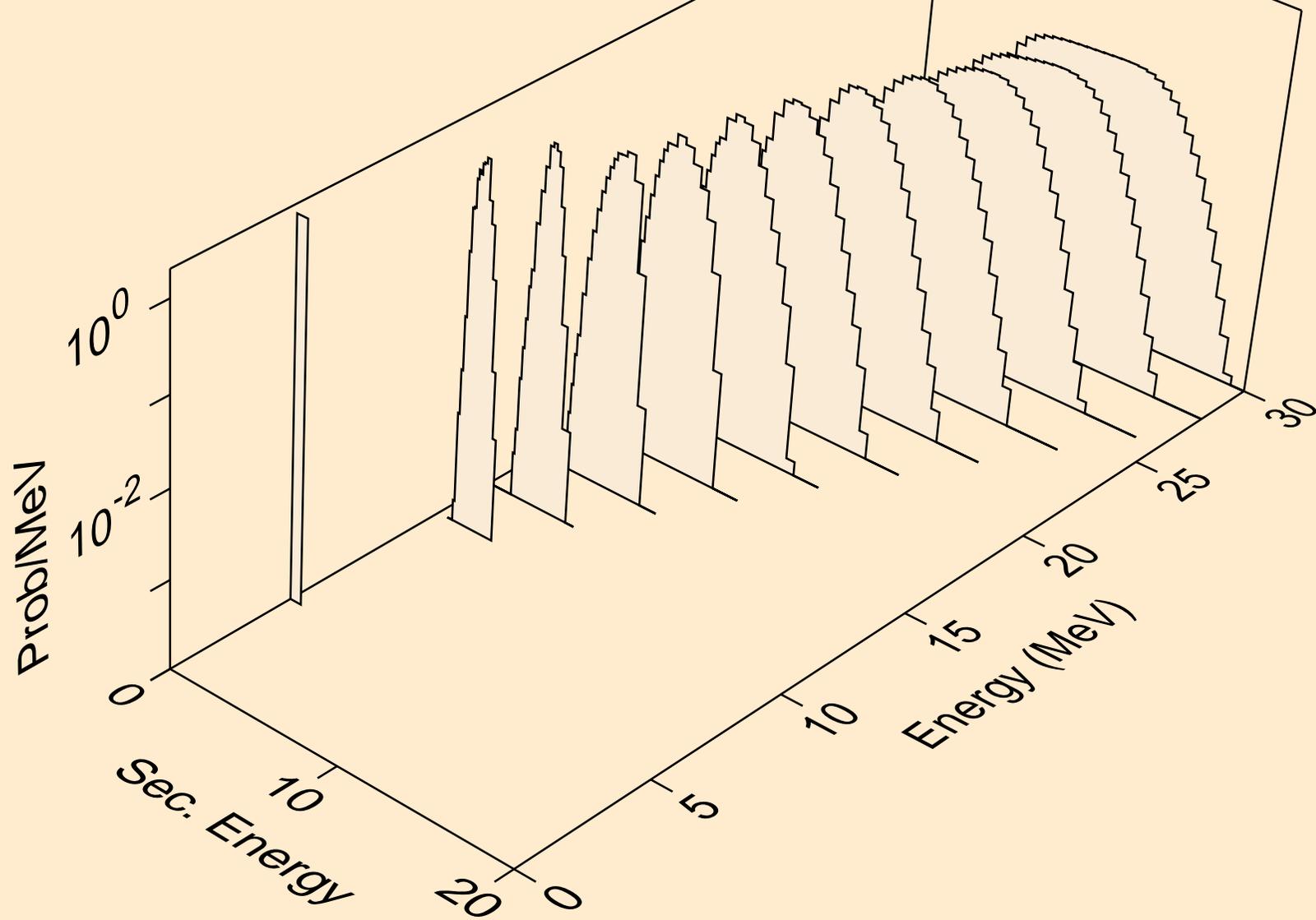deuterons from (n,n*)d

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
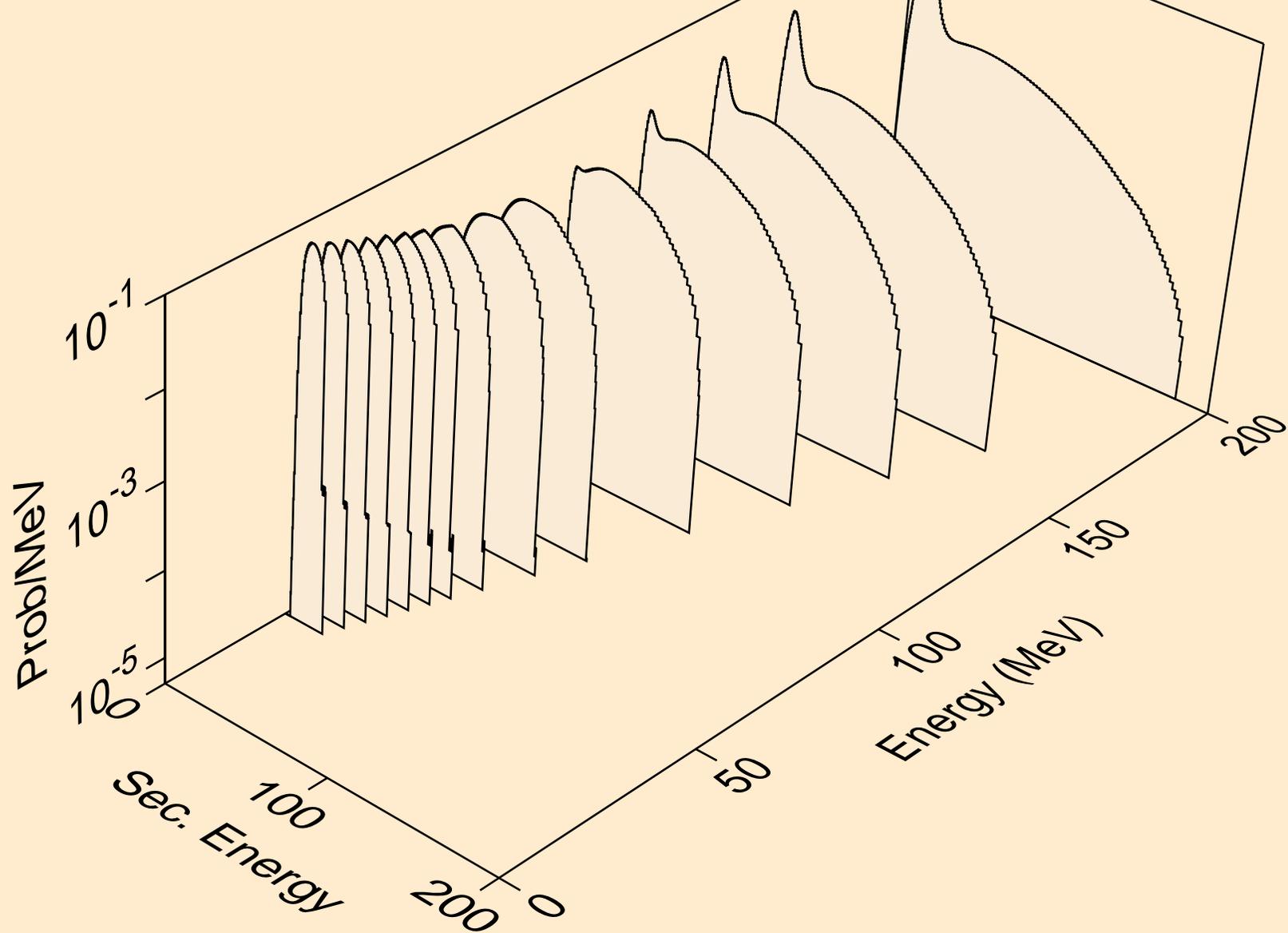deuterons from (n,d)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
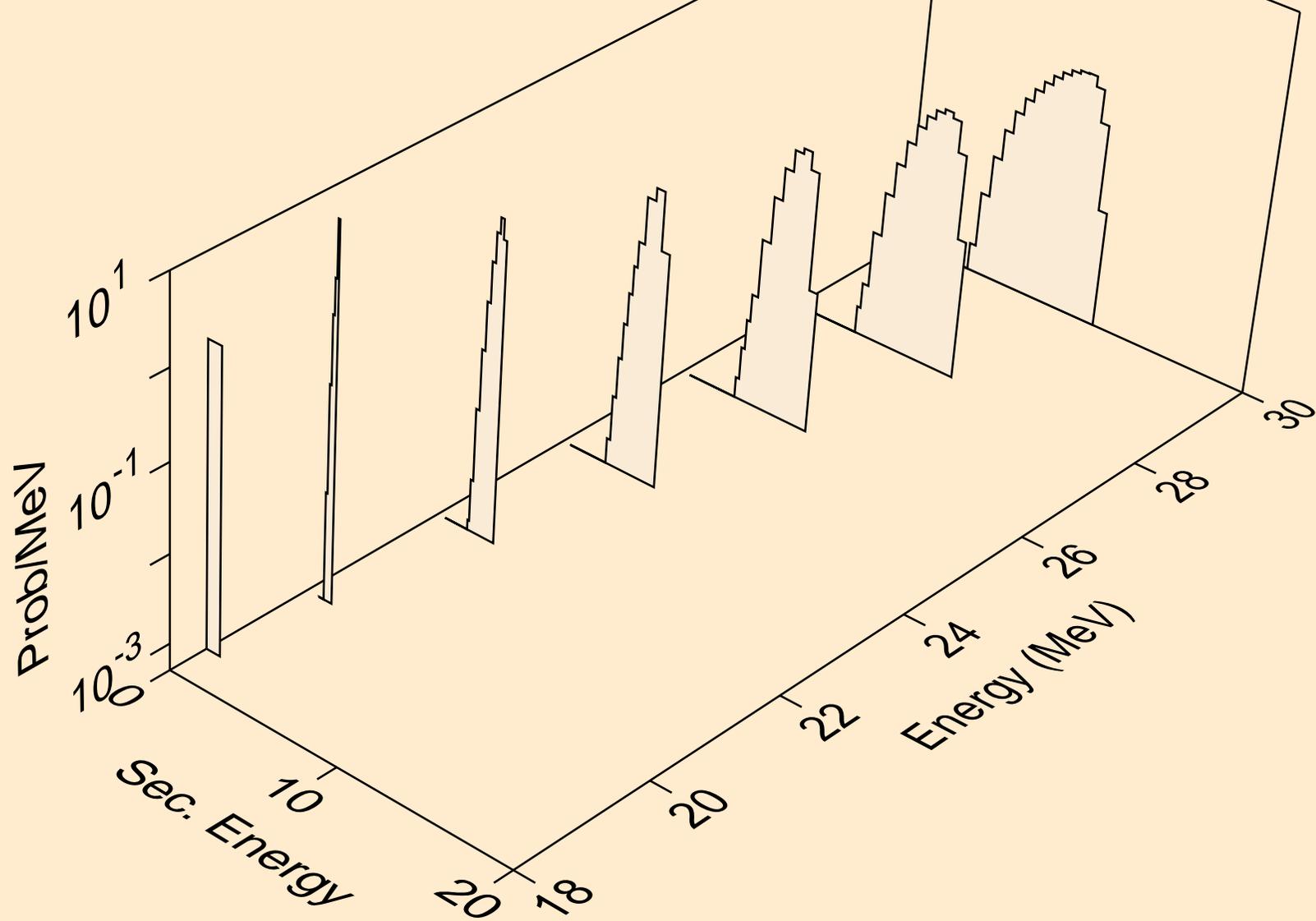deuterons from (n,pd)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
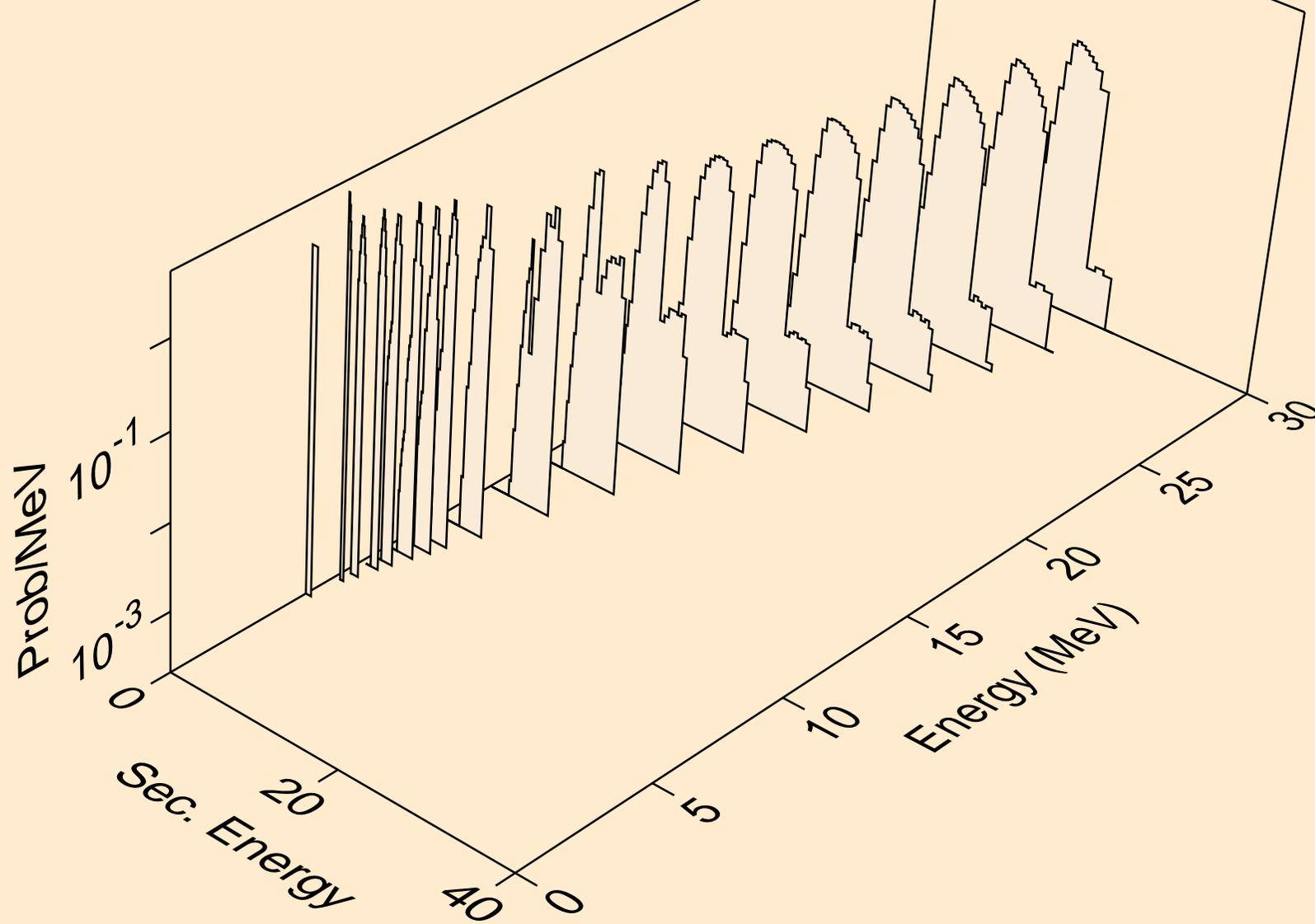deuterons from (n,da)

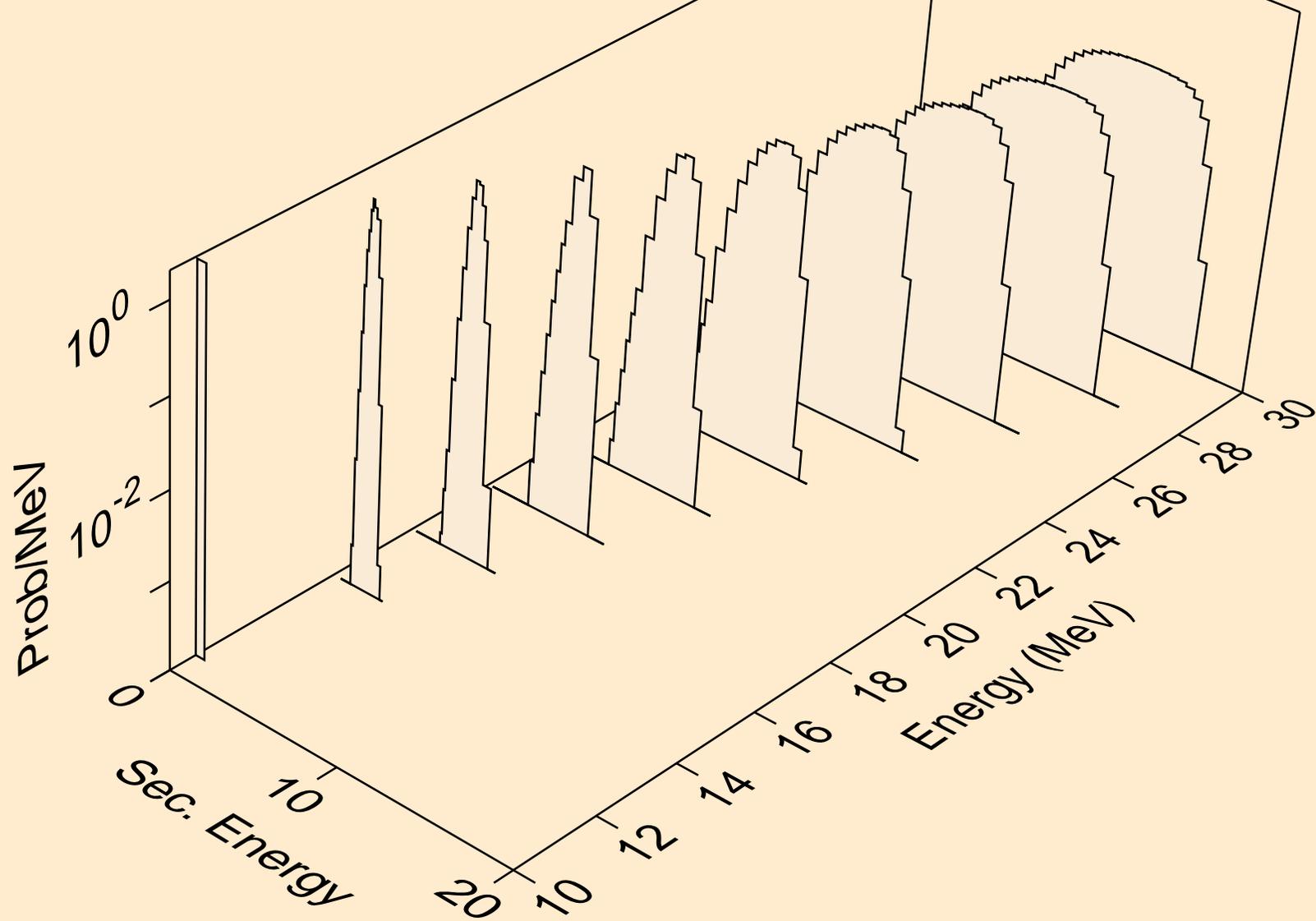Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
tritons from (n,x)

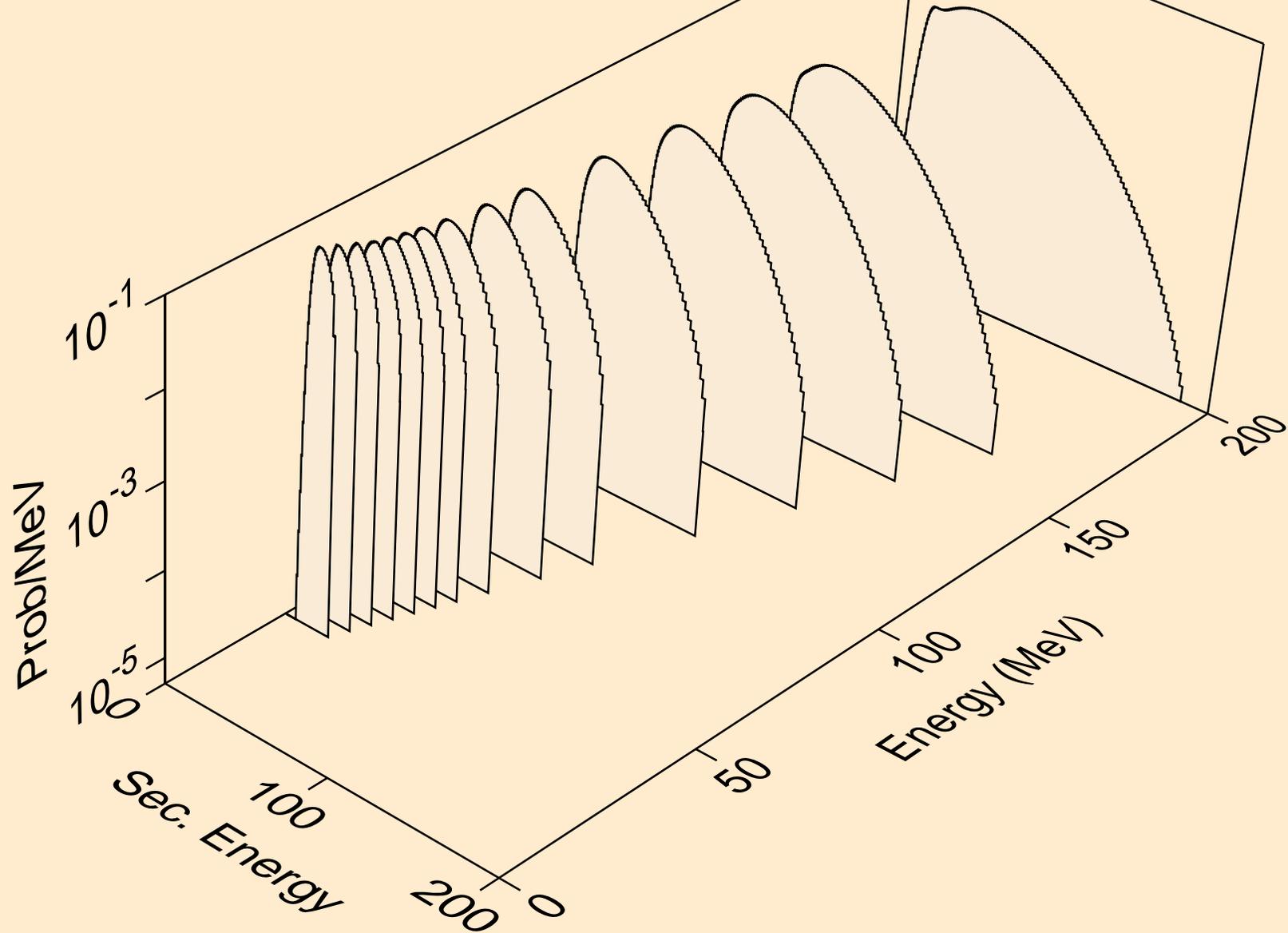Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
tritons from (n,n*)t

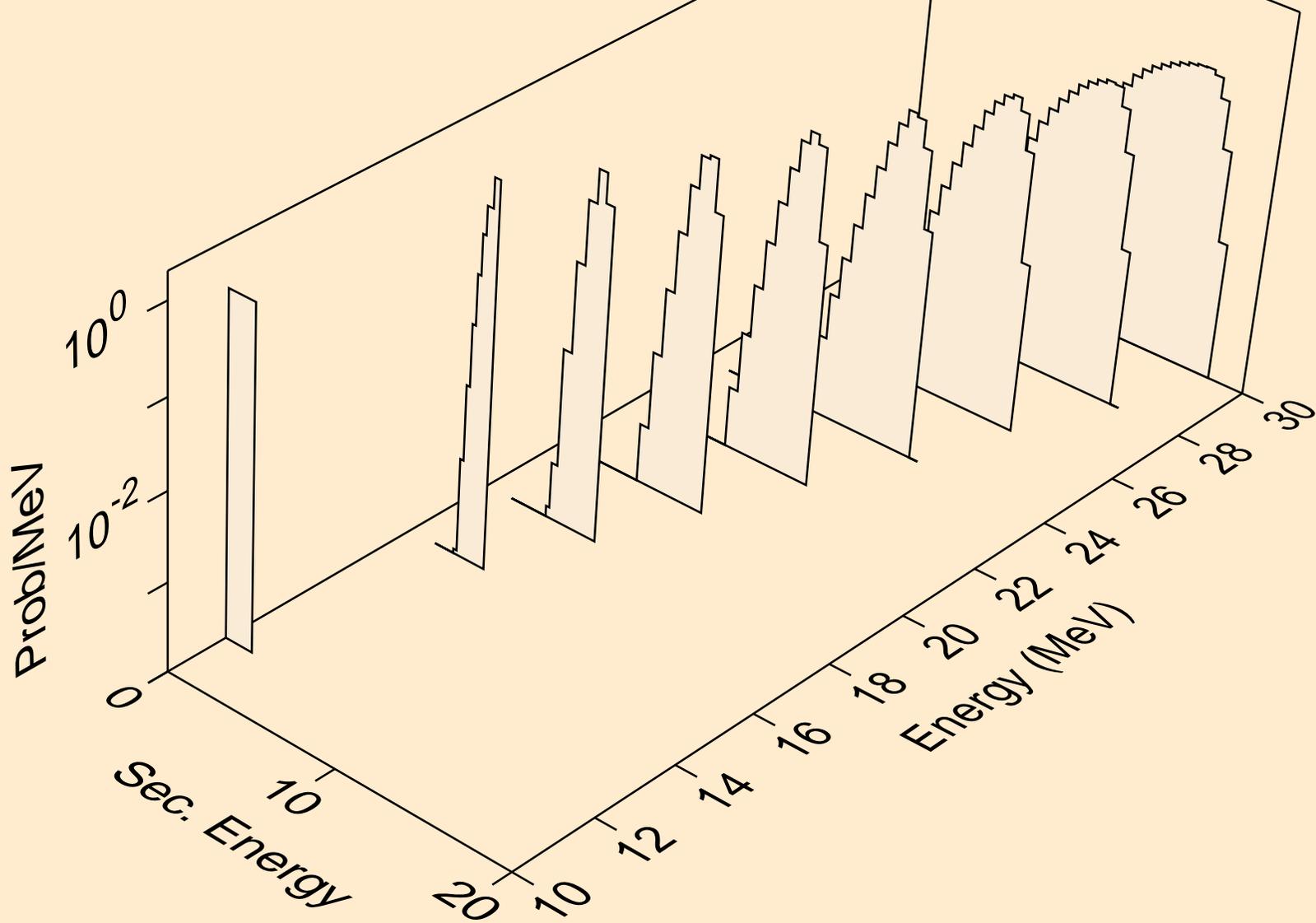Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
tritons from (n,t)

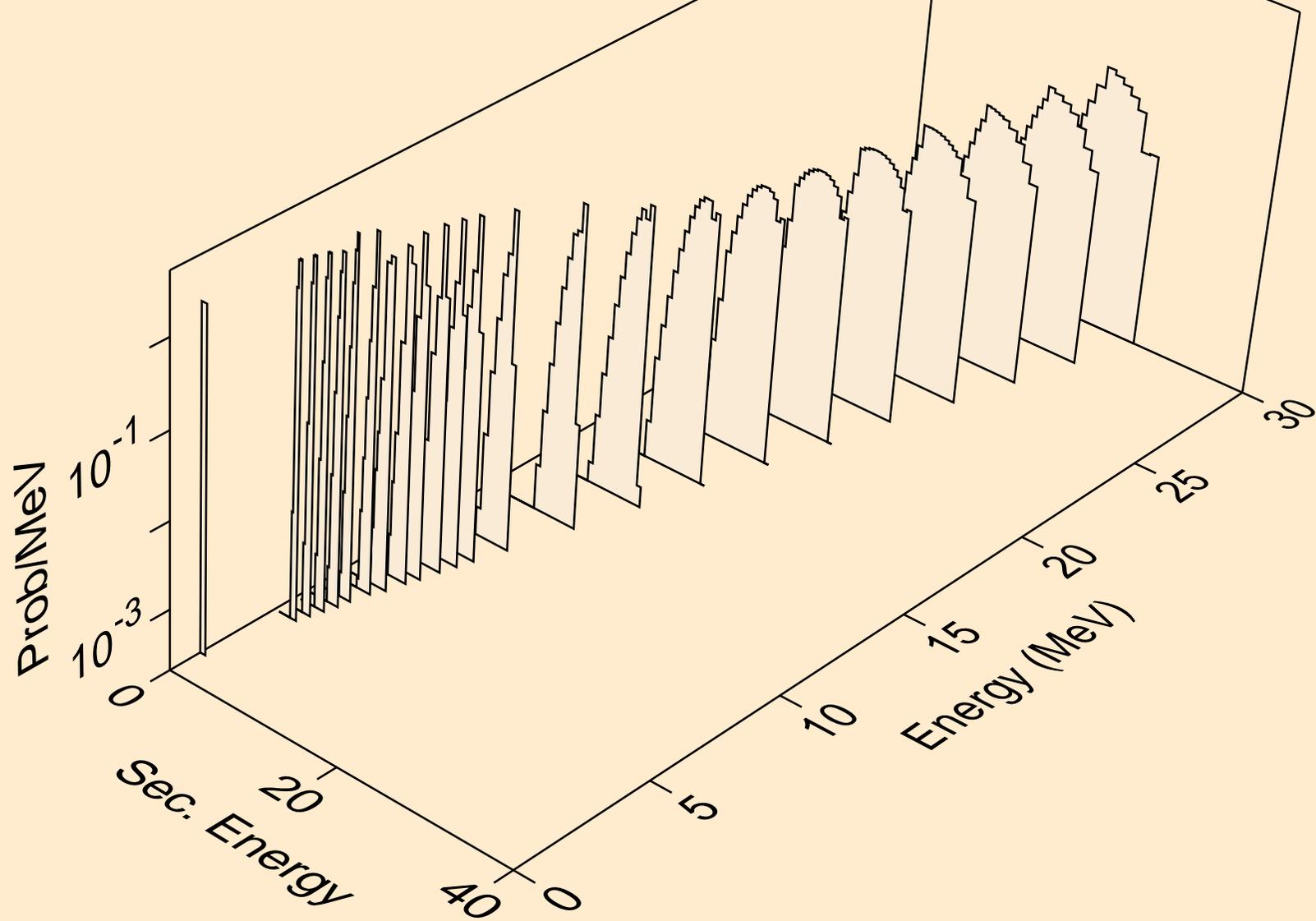Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
tritons from (n,pt)

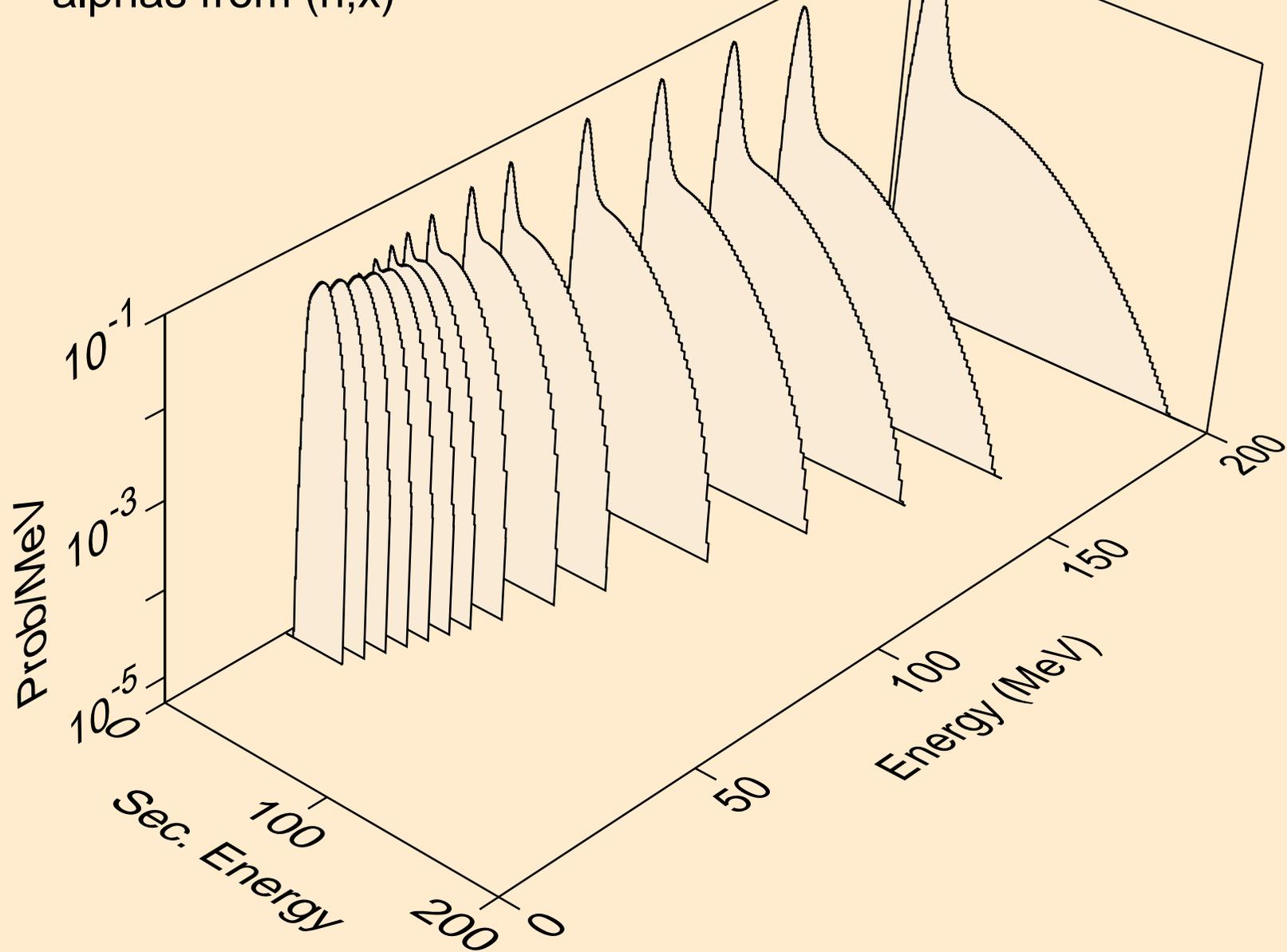Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
he3s from (n,x)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
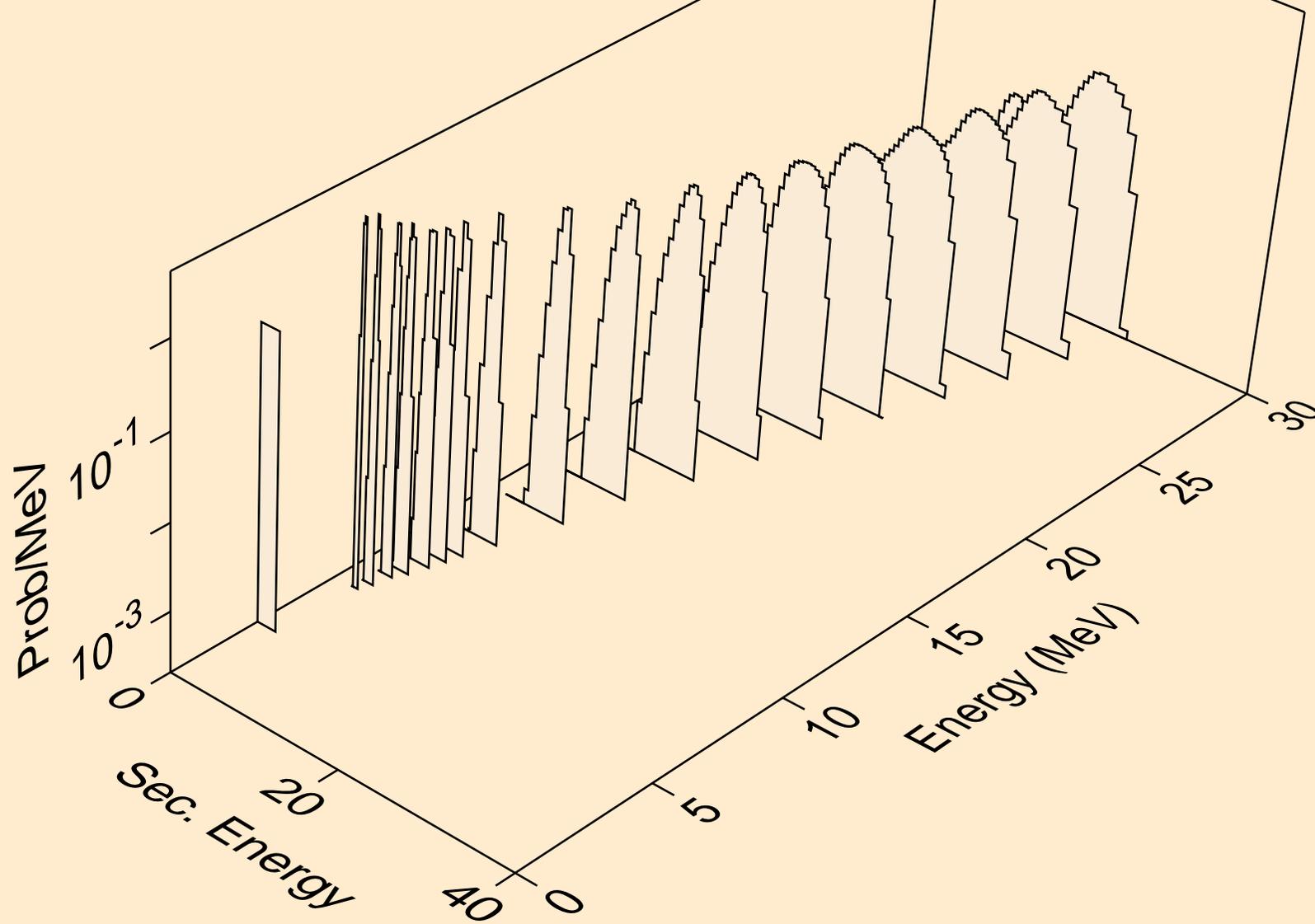he3s from (n,n*)he3

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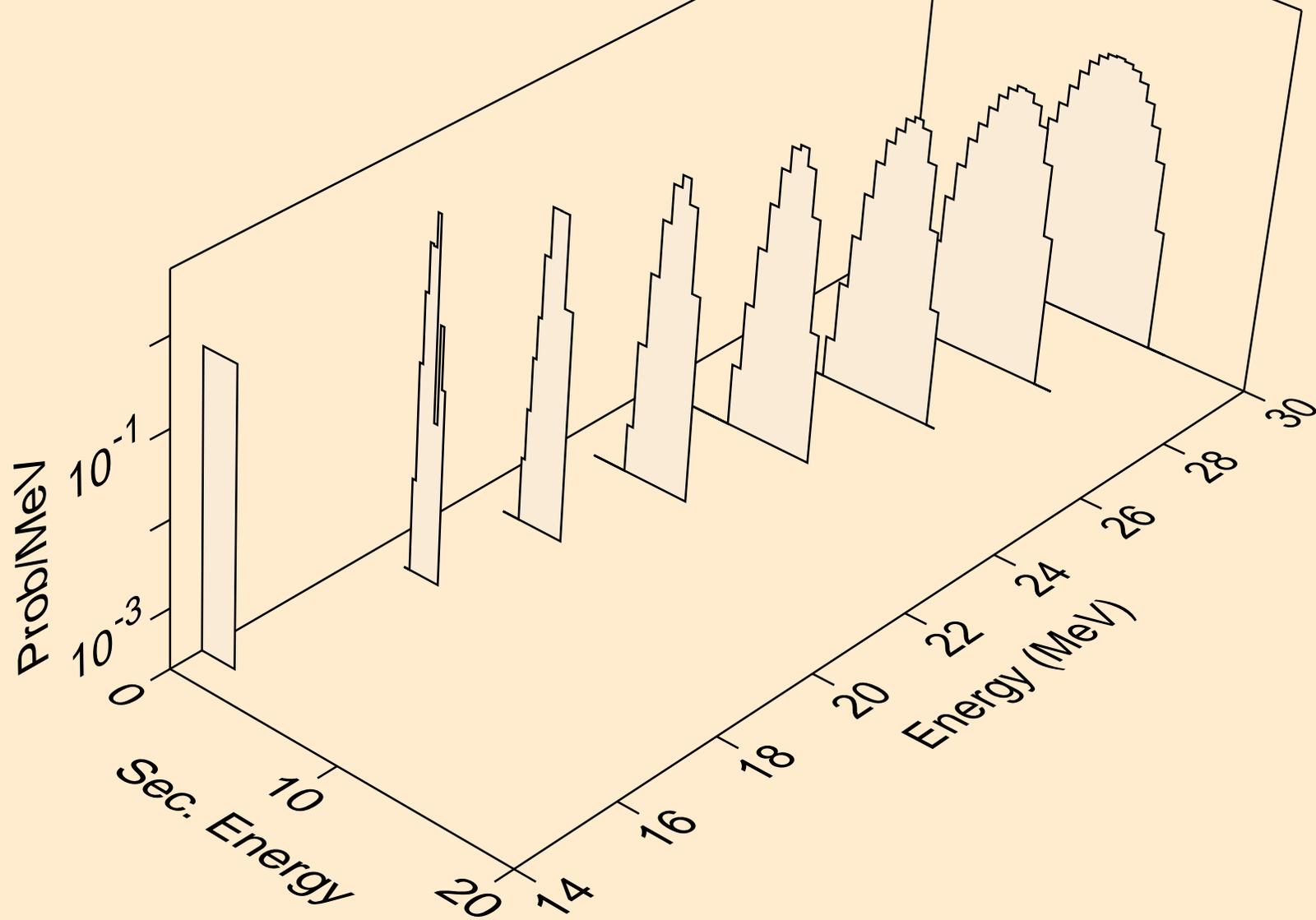he3s from (n,he3)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
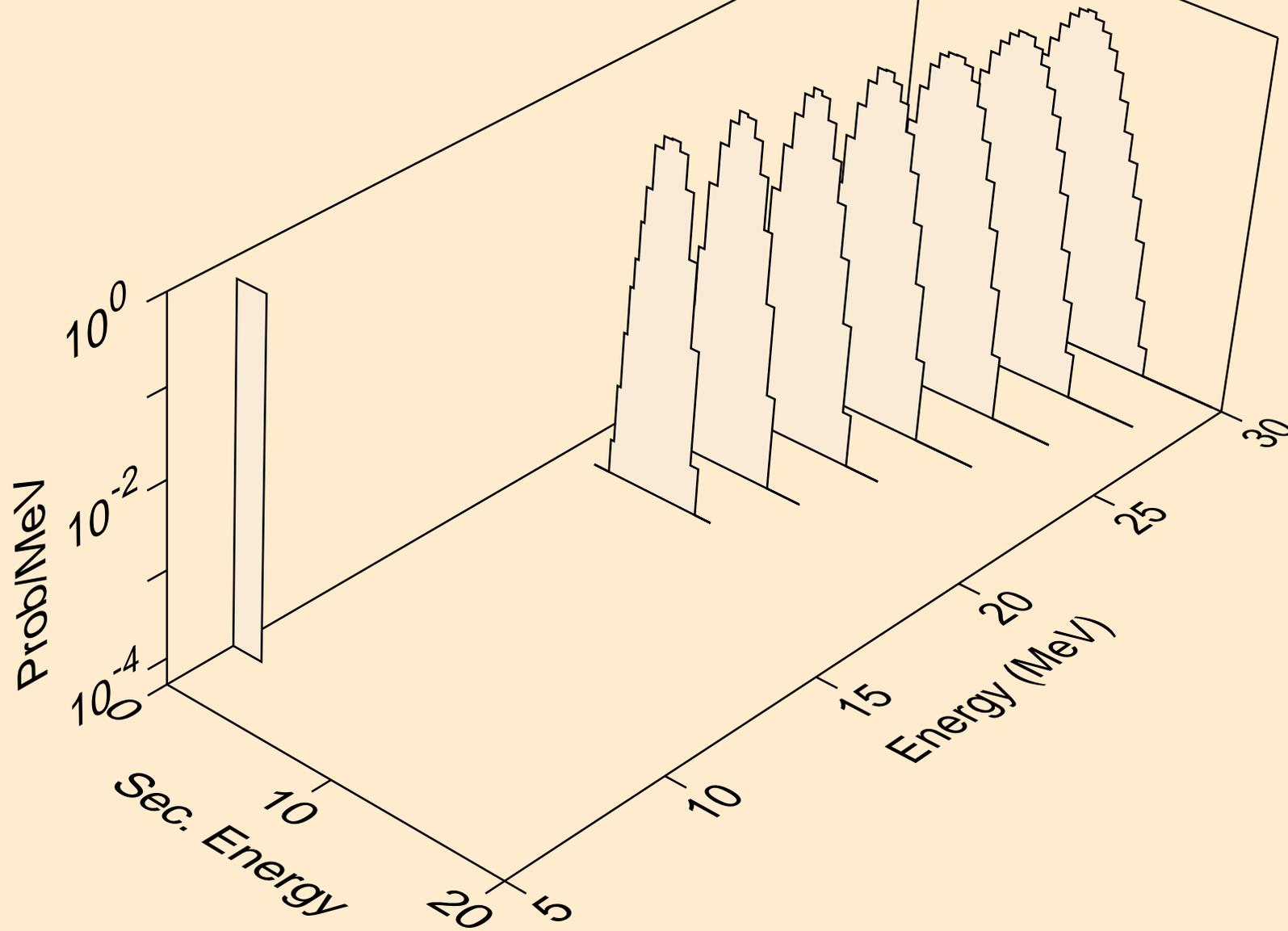alphas from (n,x)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
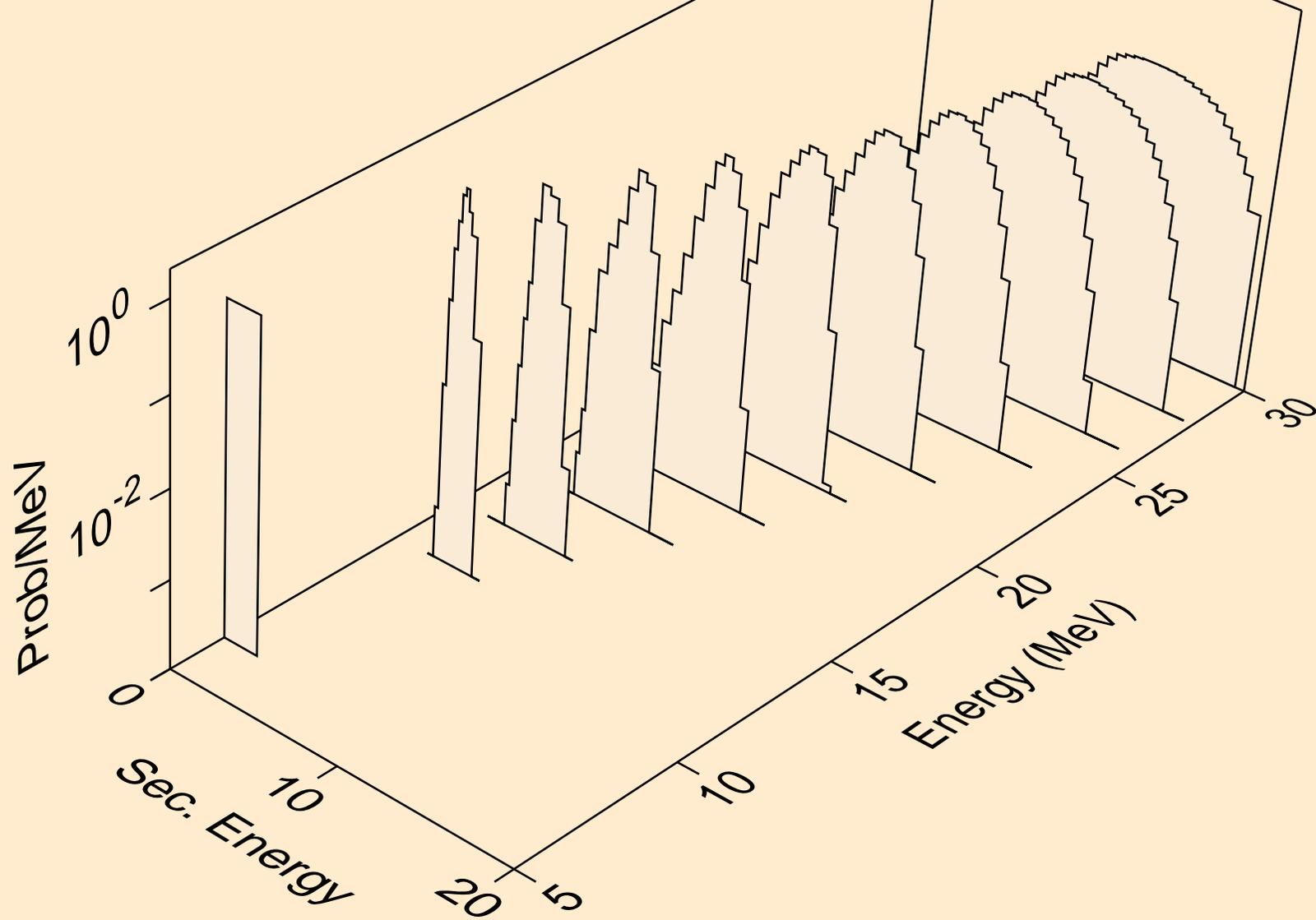alphas from (n,n*)a

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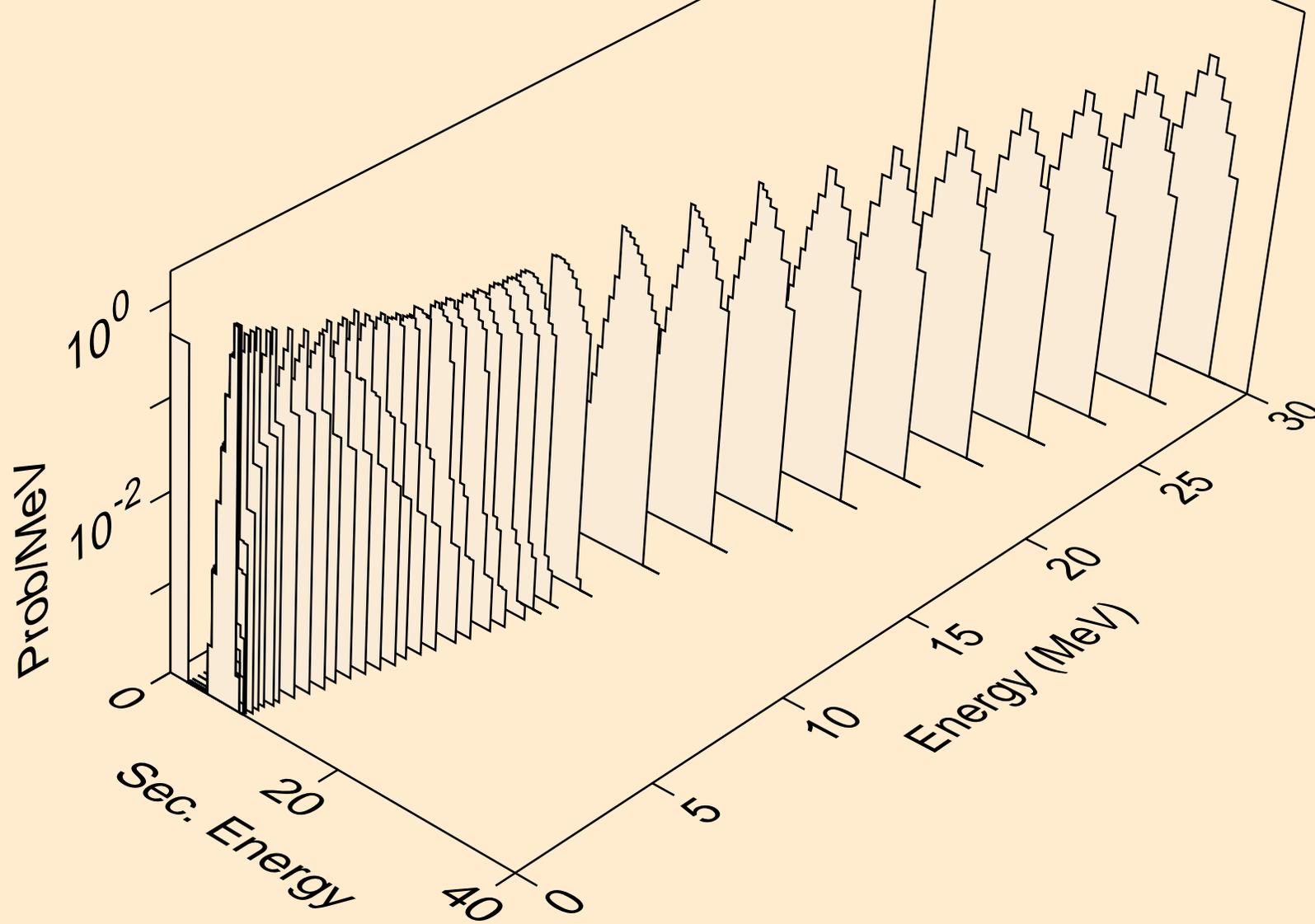alphas from (n,2n)a

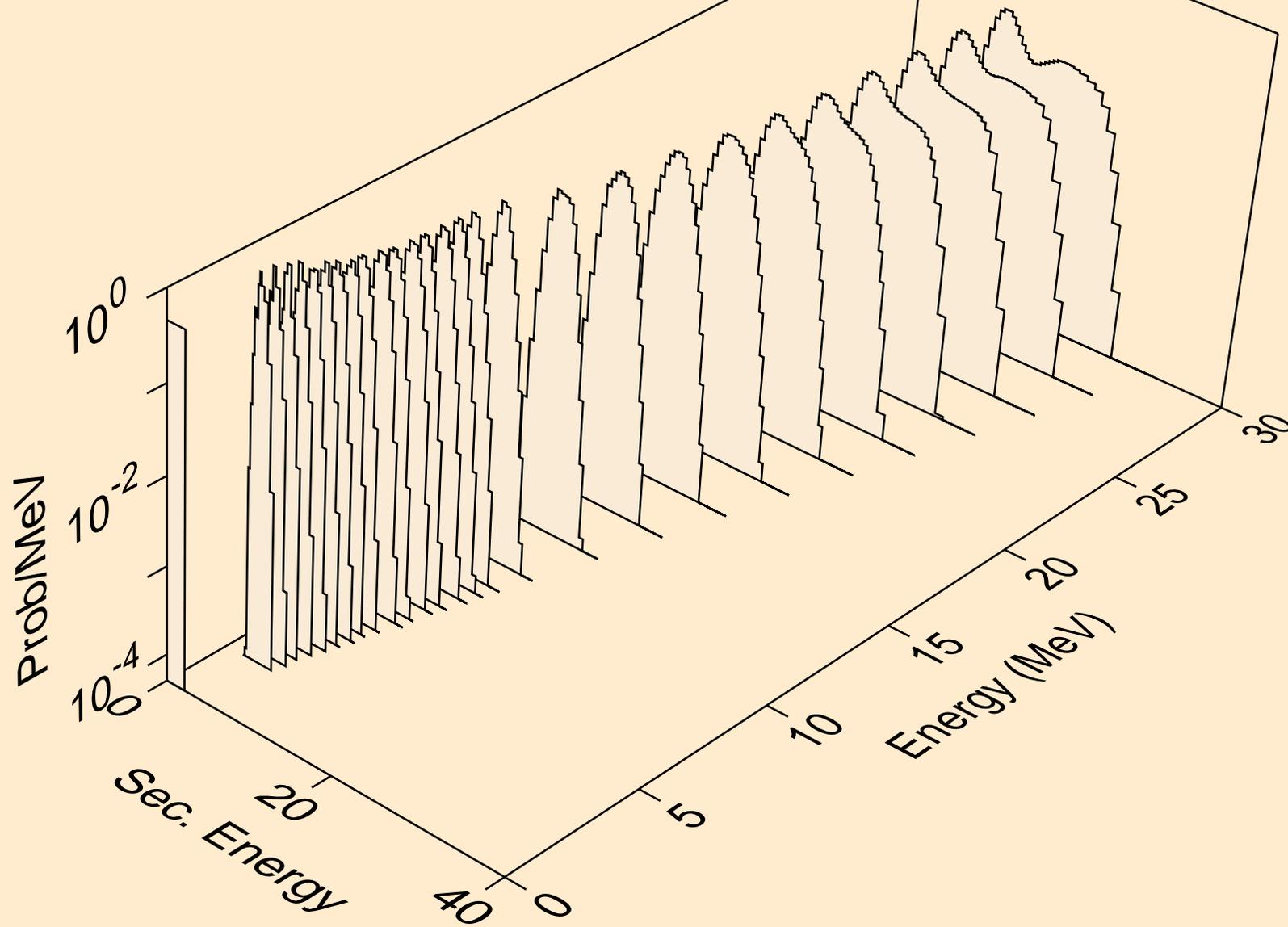Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
alphas from (n,n*)2a

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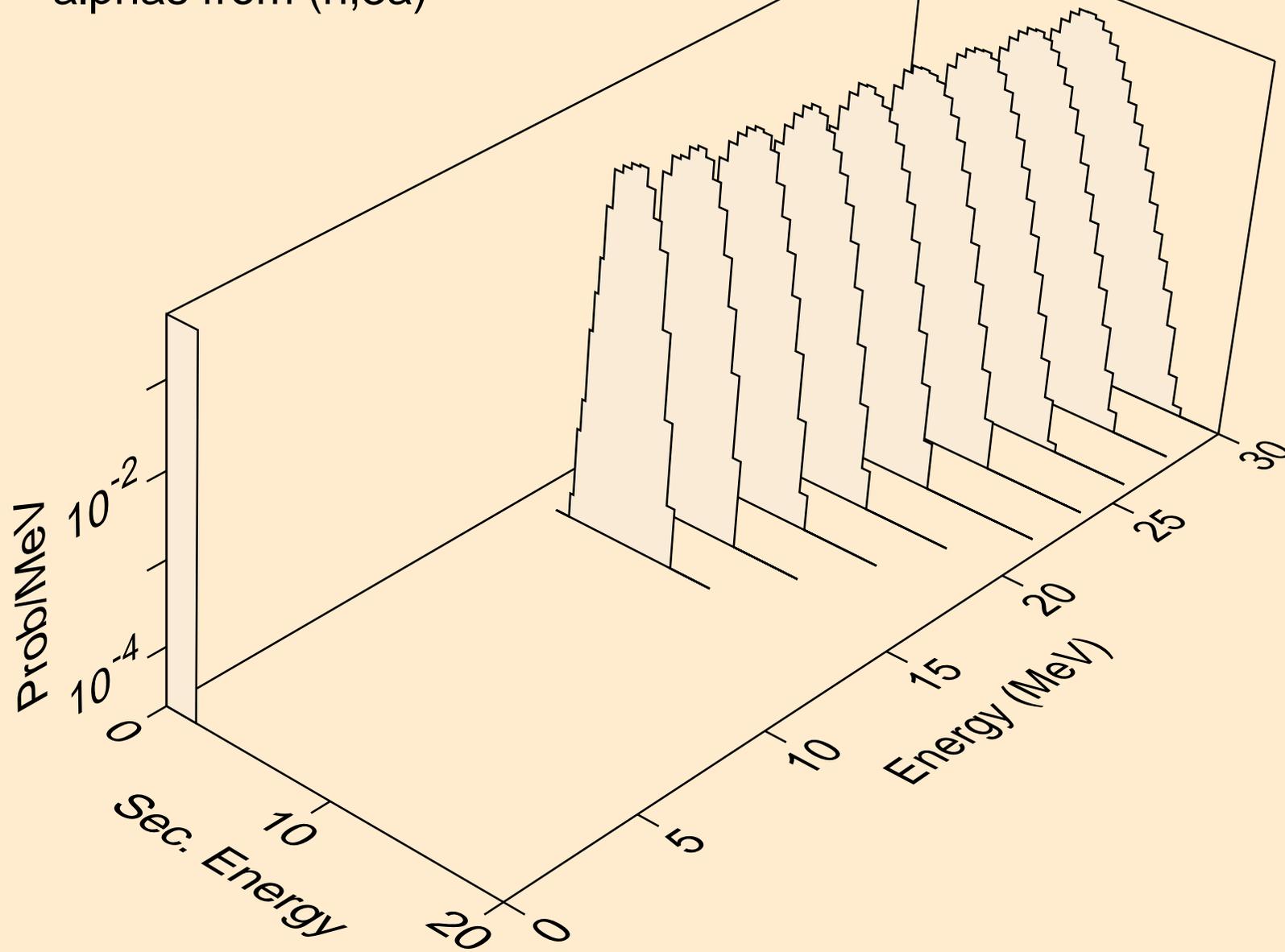alphas from (n,npa)

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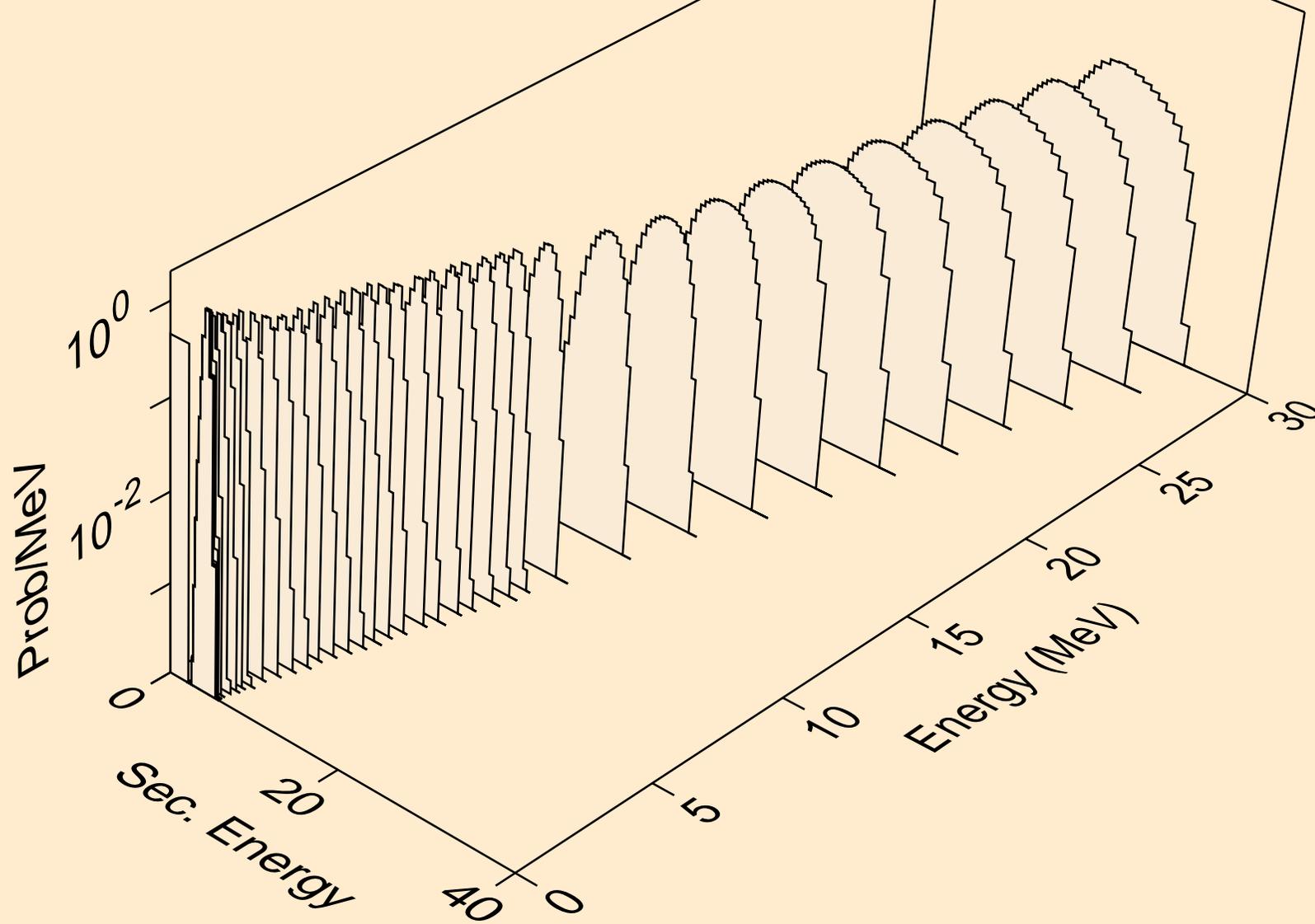alphas from (n,a)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
alphas from (n,2a)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
alphas from (n,3a)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
alphas from (n,pa)

Y080 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K
alphas from (n,da)