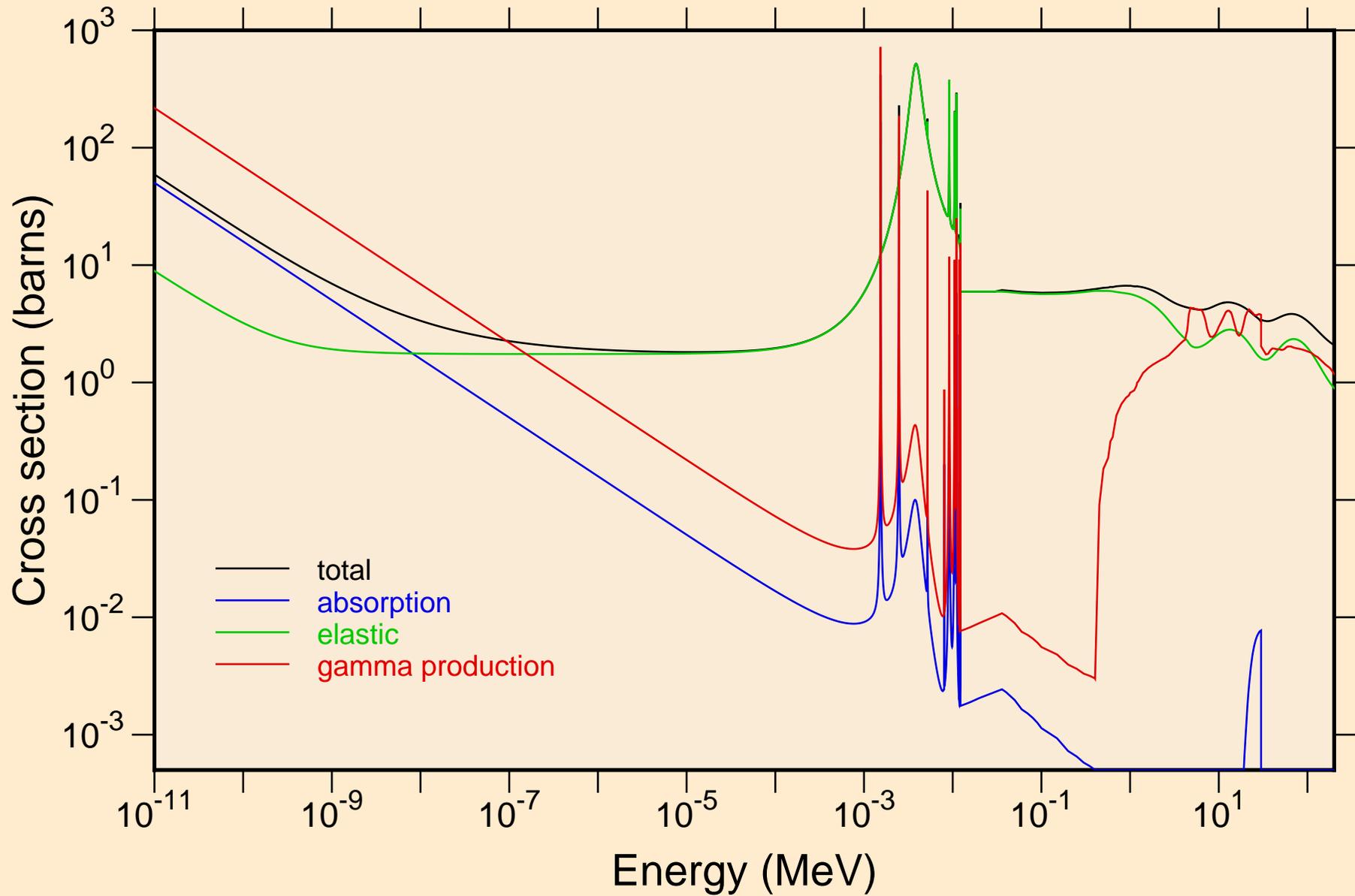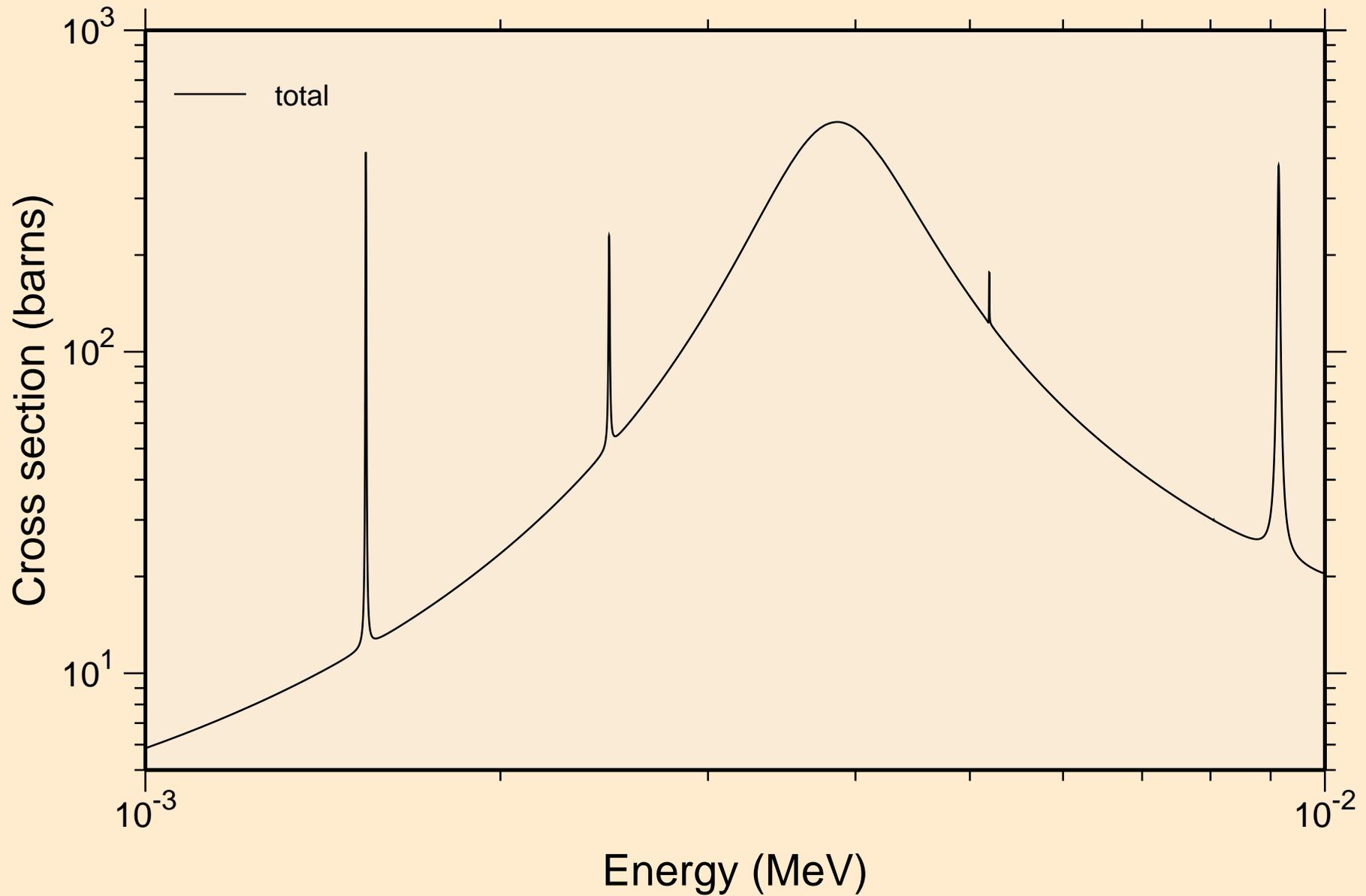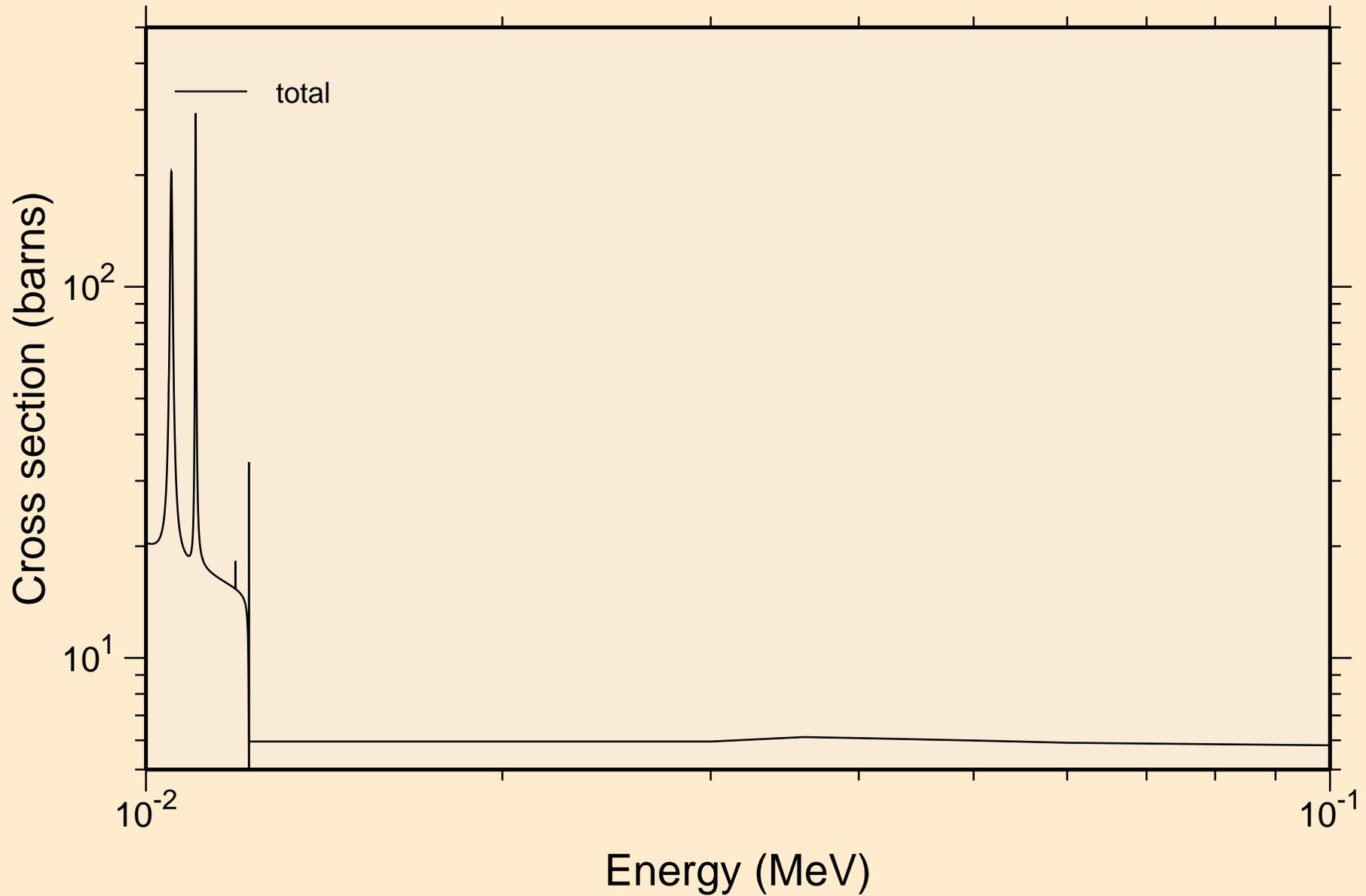IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
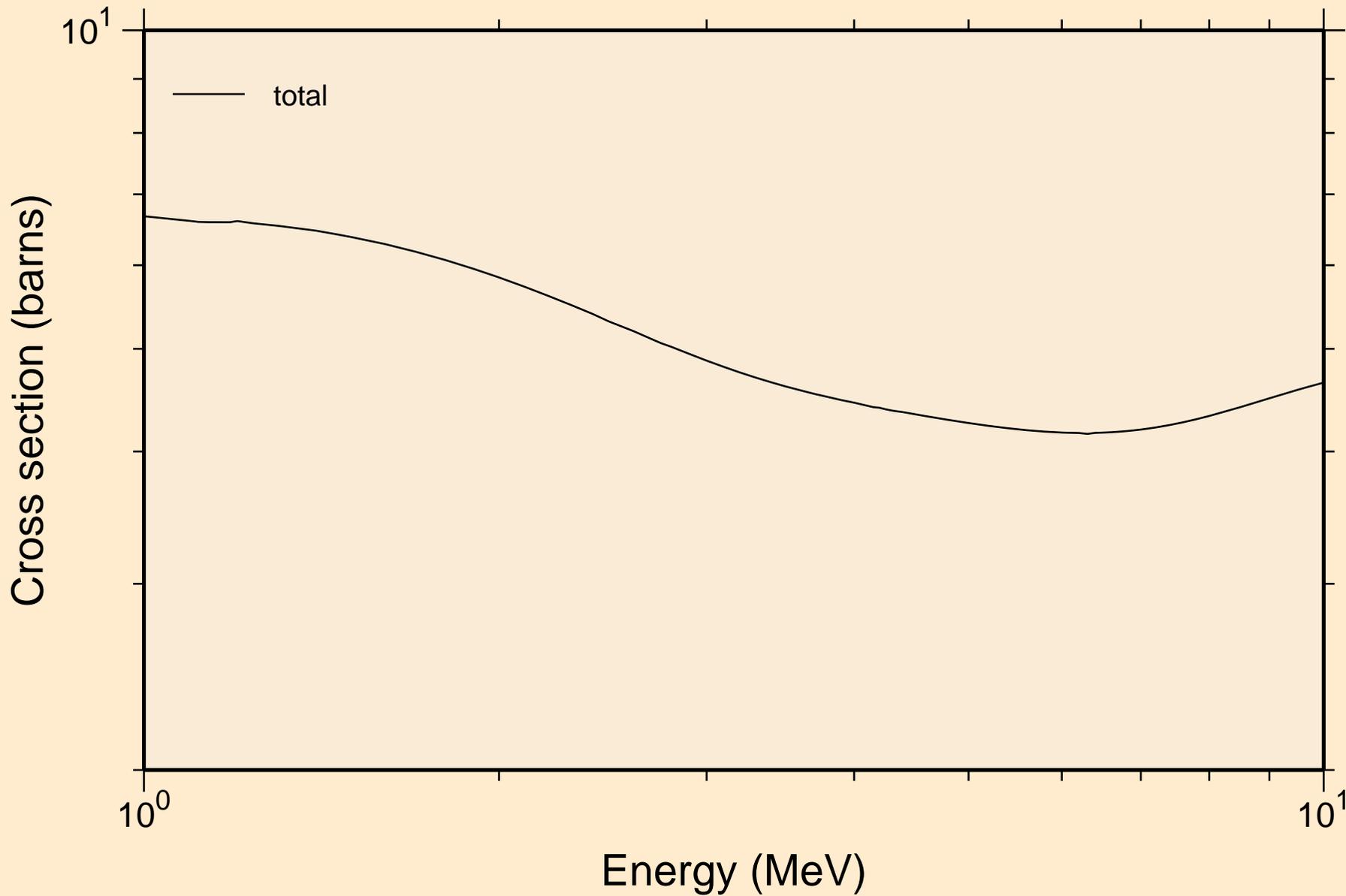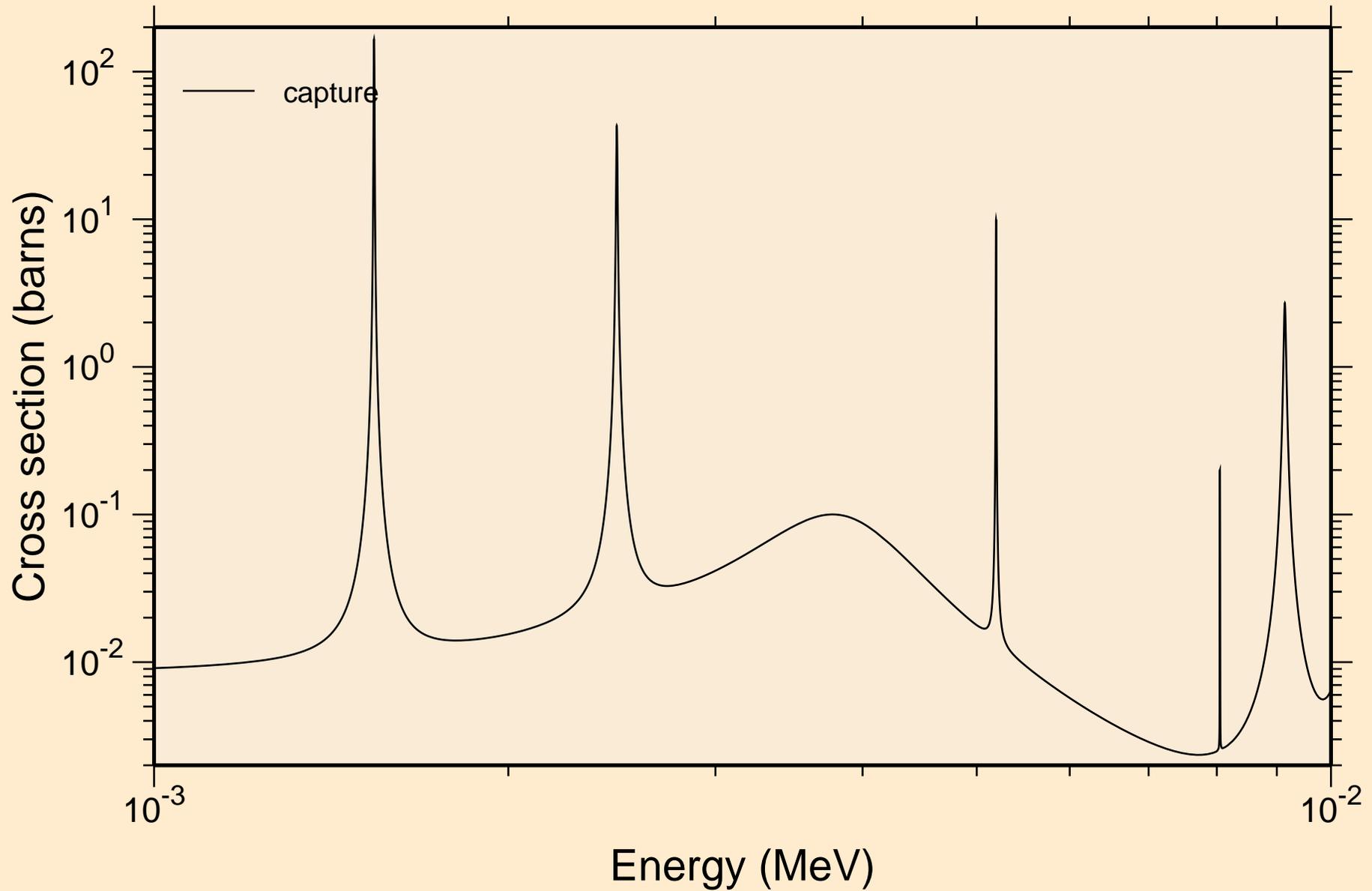Principal cross sections

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
resonance total cross section

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
resonance total cross section

total
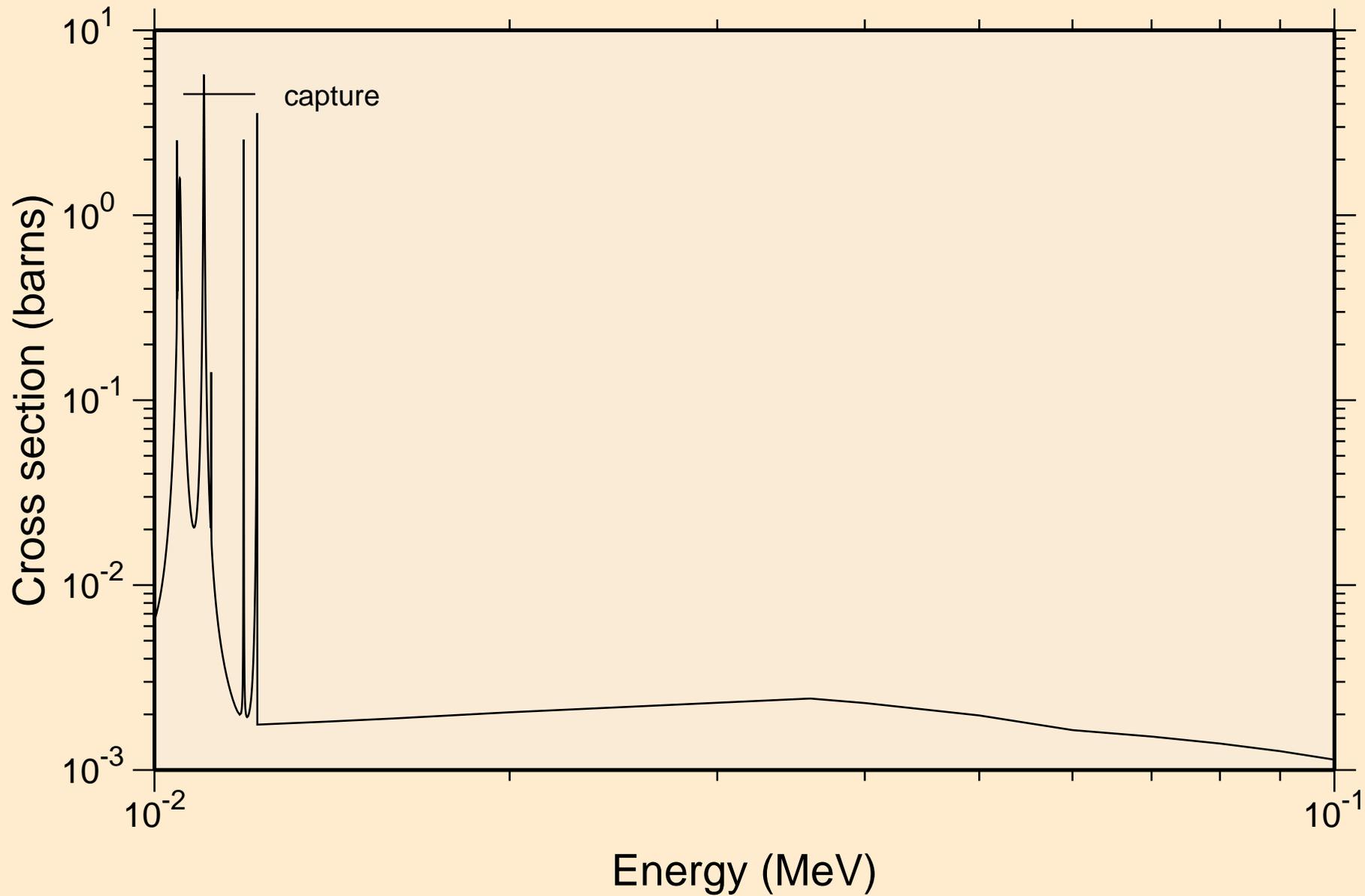
Cross section (barns)

Energy (MeV)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
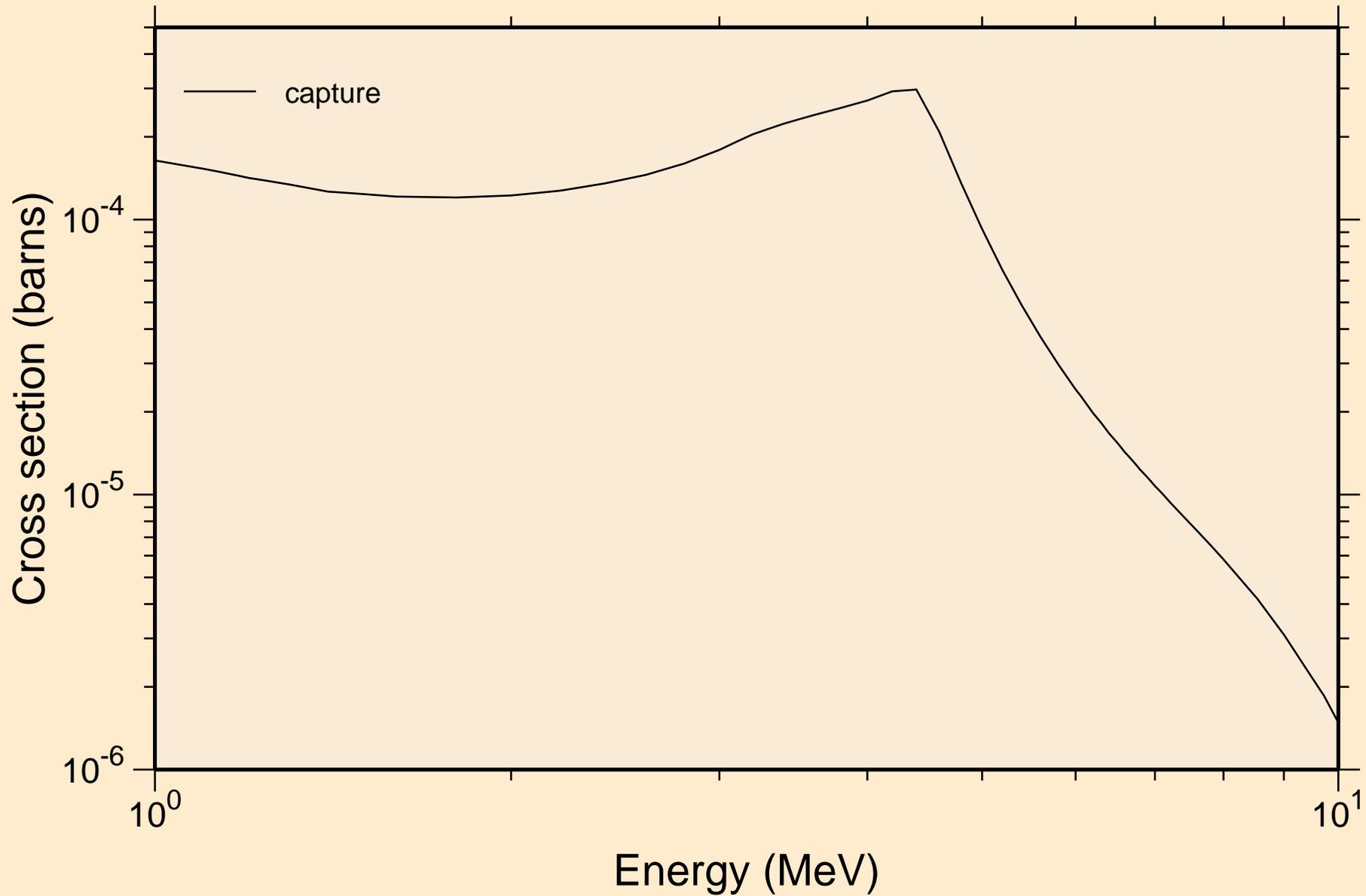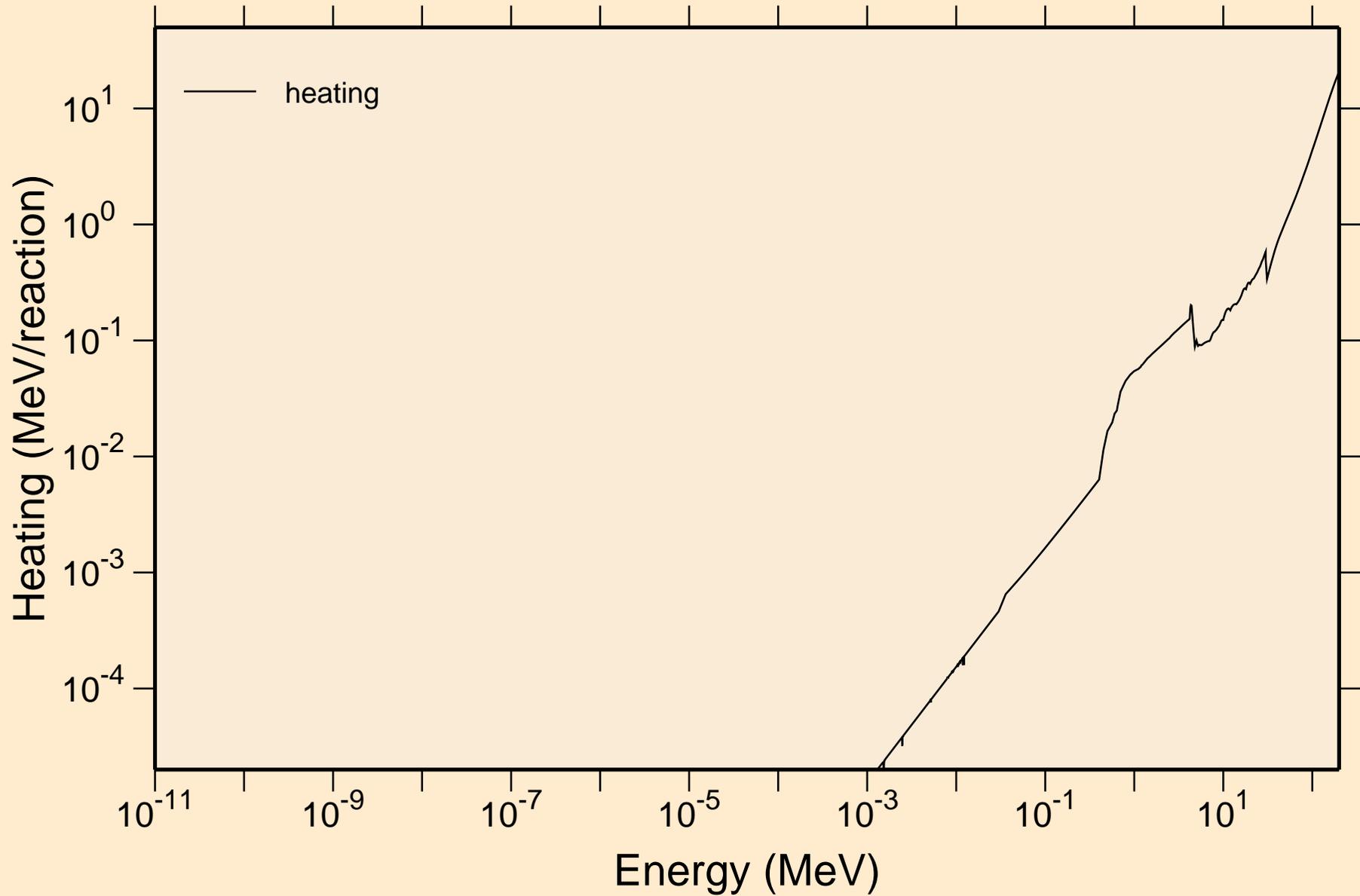resonance total cross section

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
resonance absorption cross sections

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
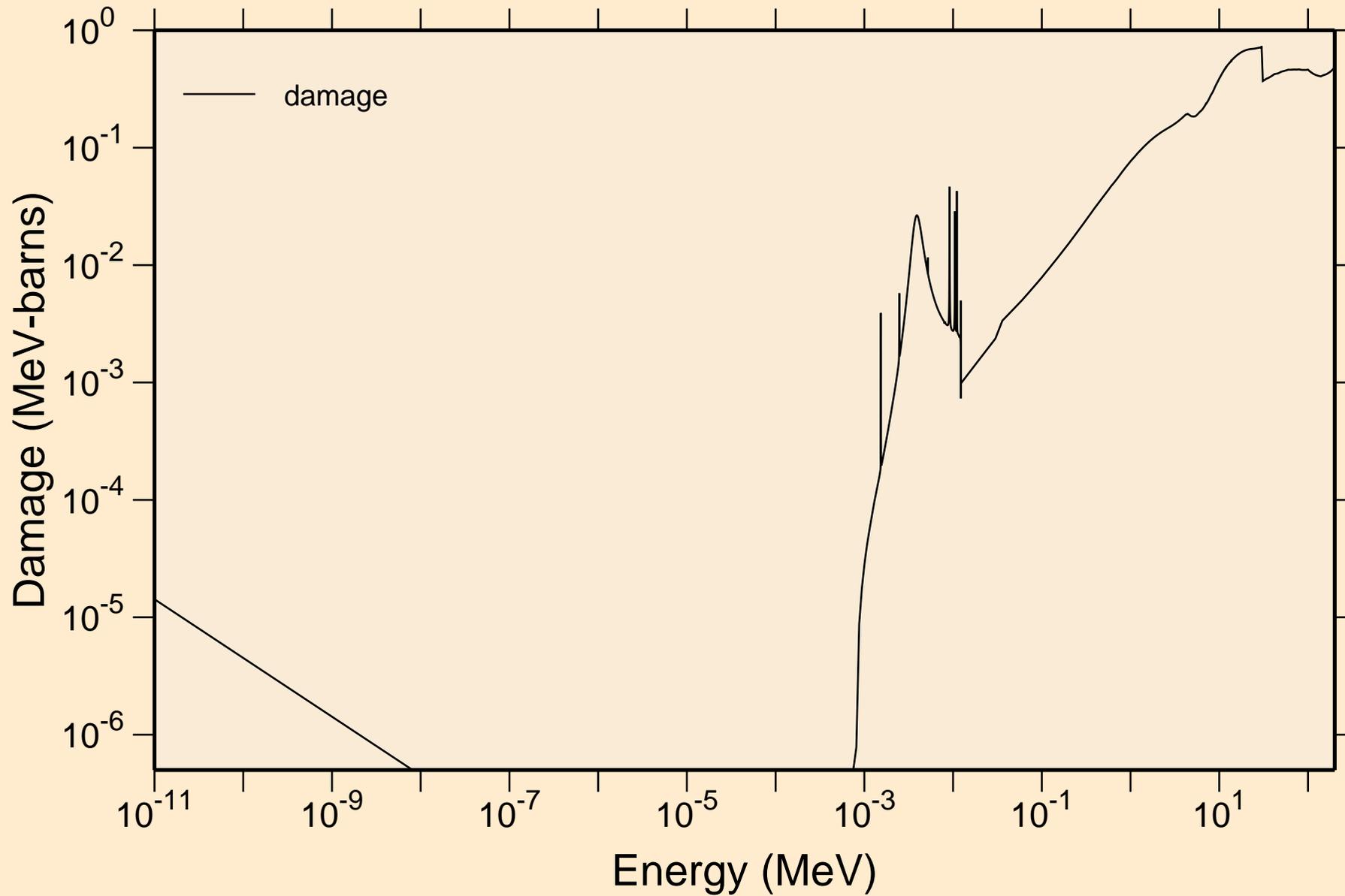resonance absorption cross sections

capture

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
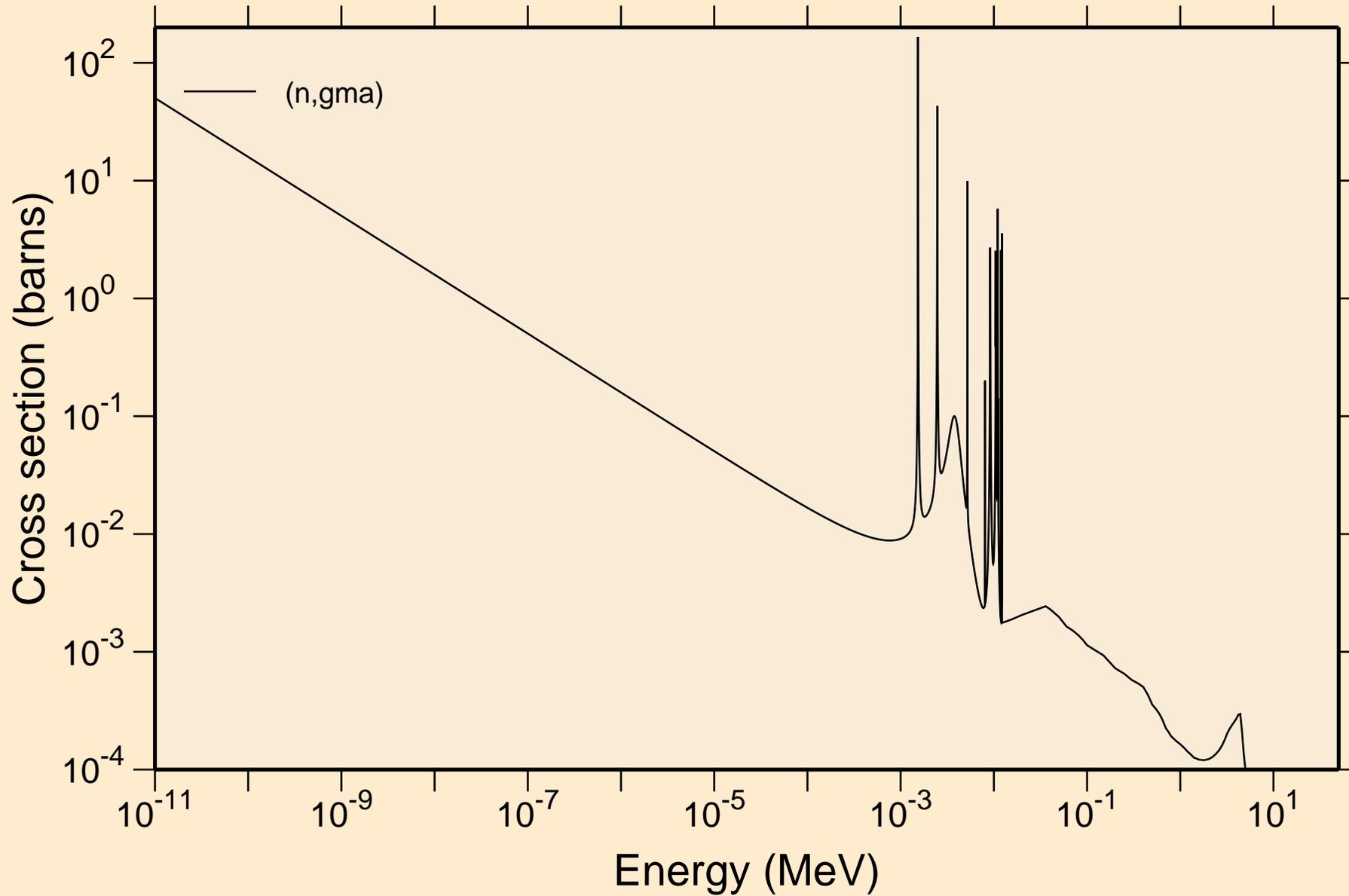resonance absorption cross sections

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Heating

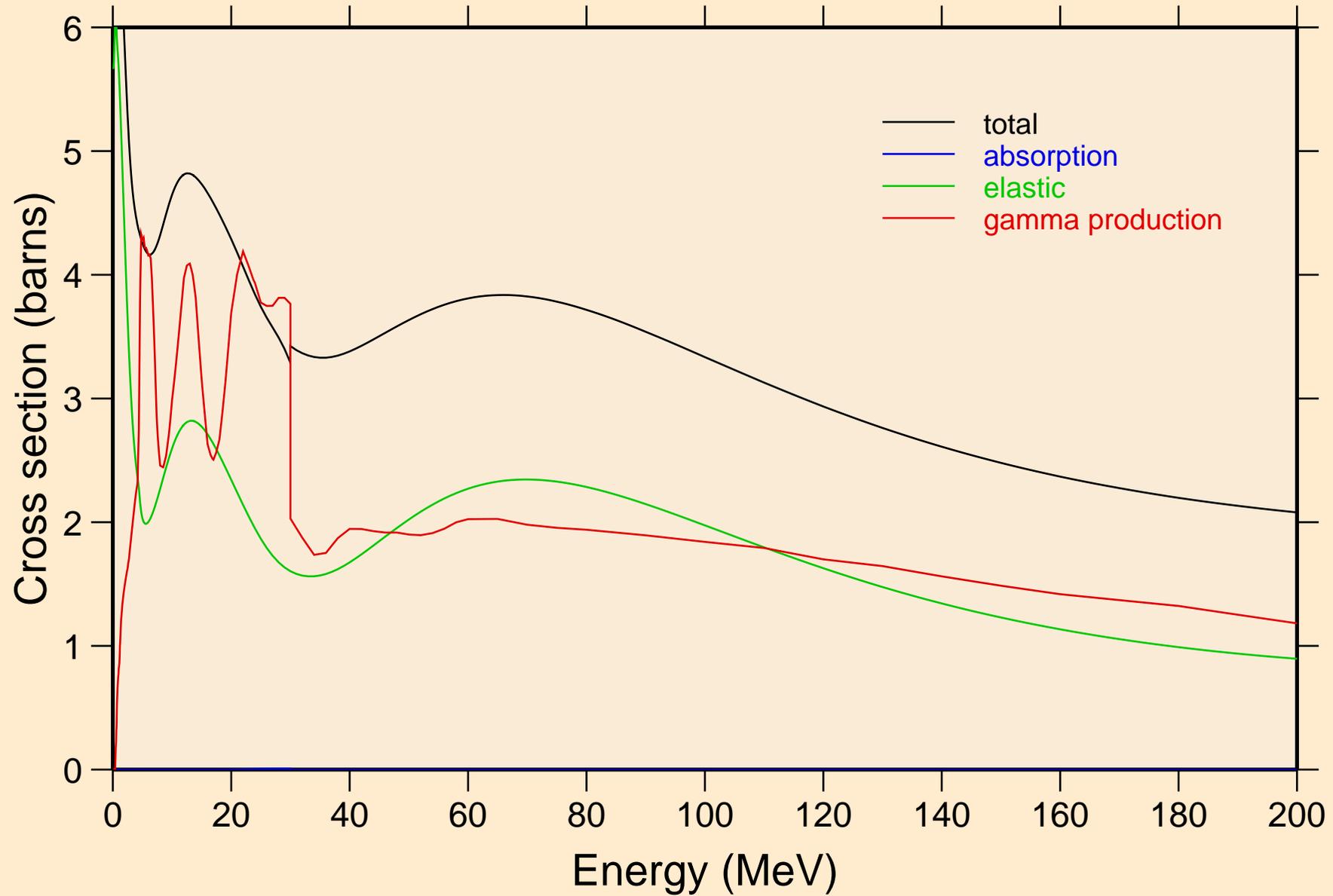IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Damage

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Non-threshold reactions

(n,gma)

Cross section (barns)

Energy (MeV)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Principal cross sections

- total
- absorption
- elastic
- gamma production

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Heating

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Damage

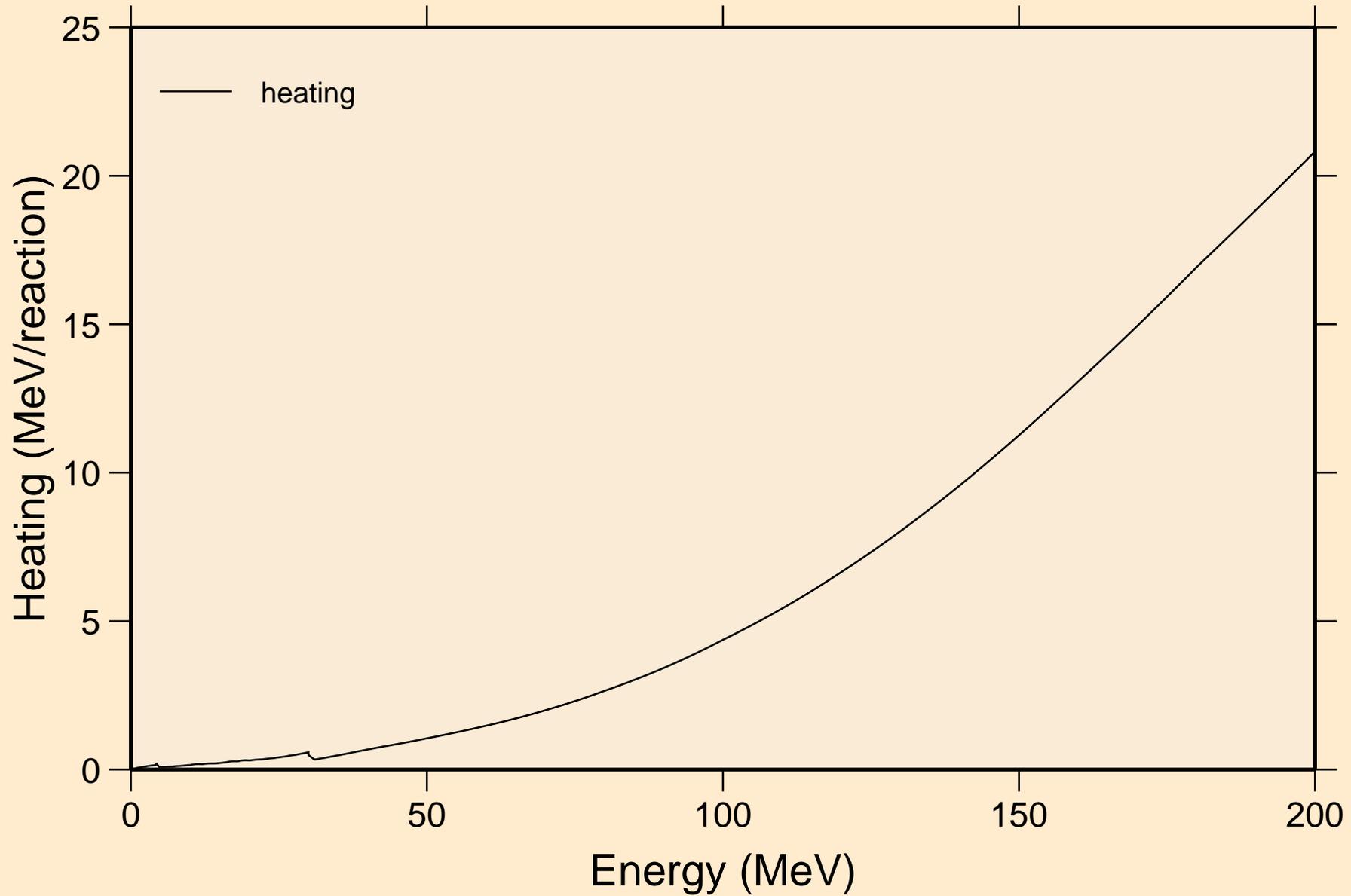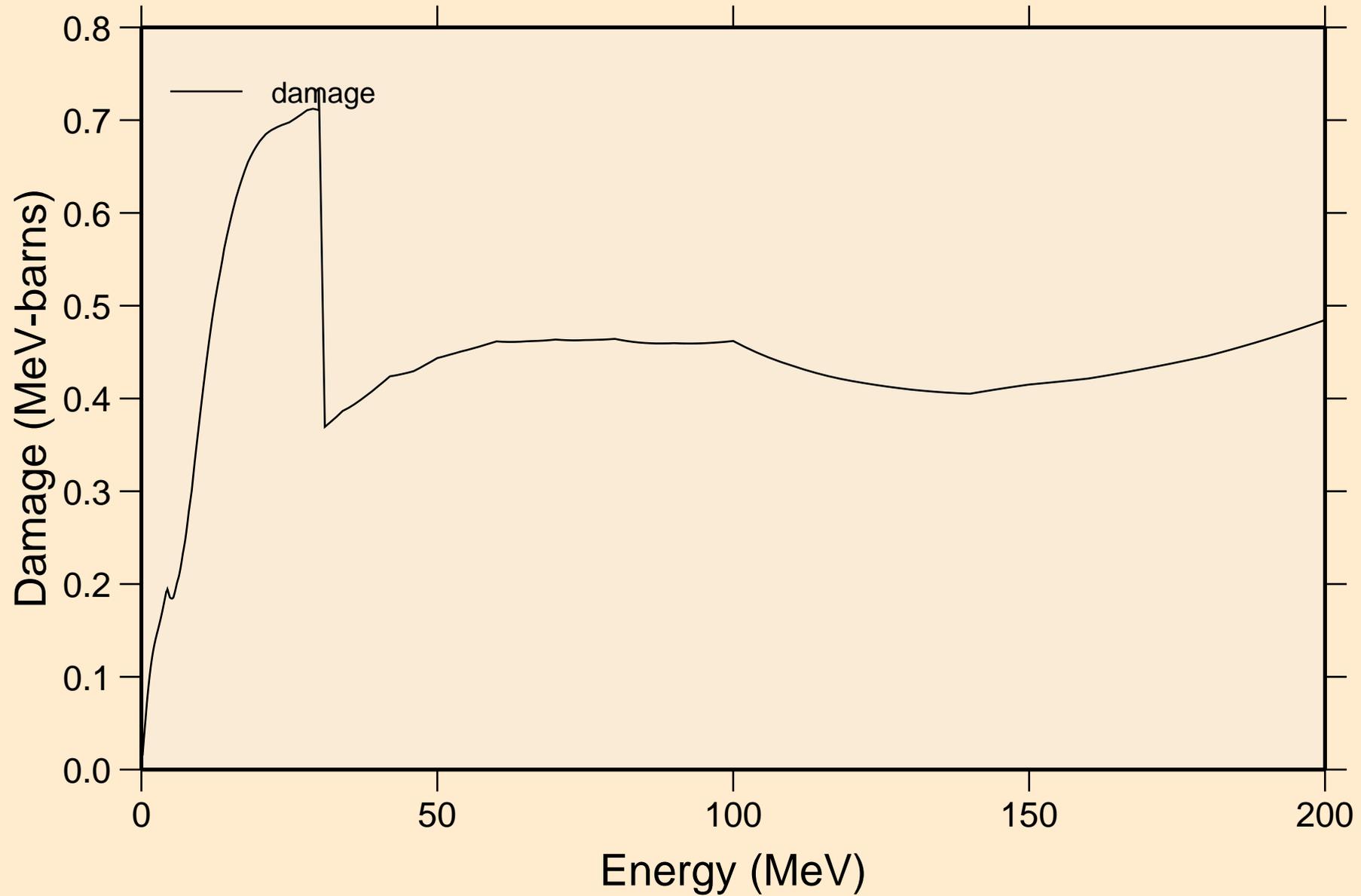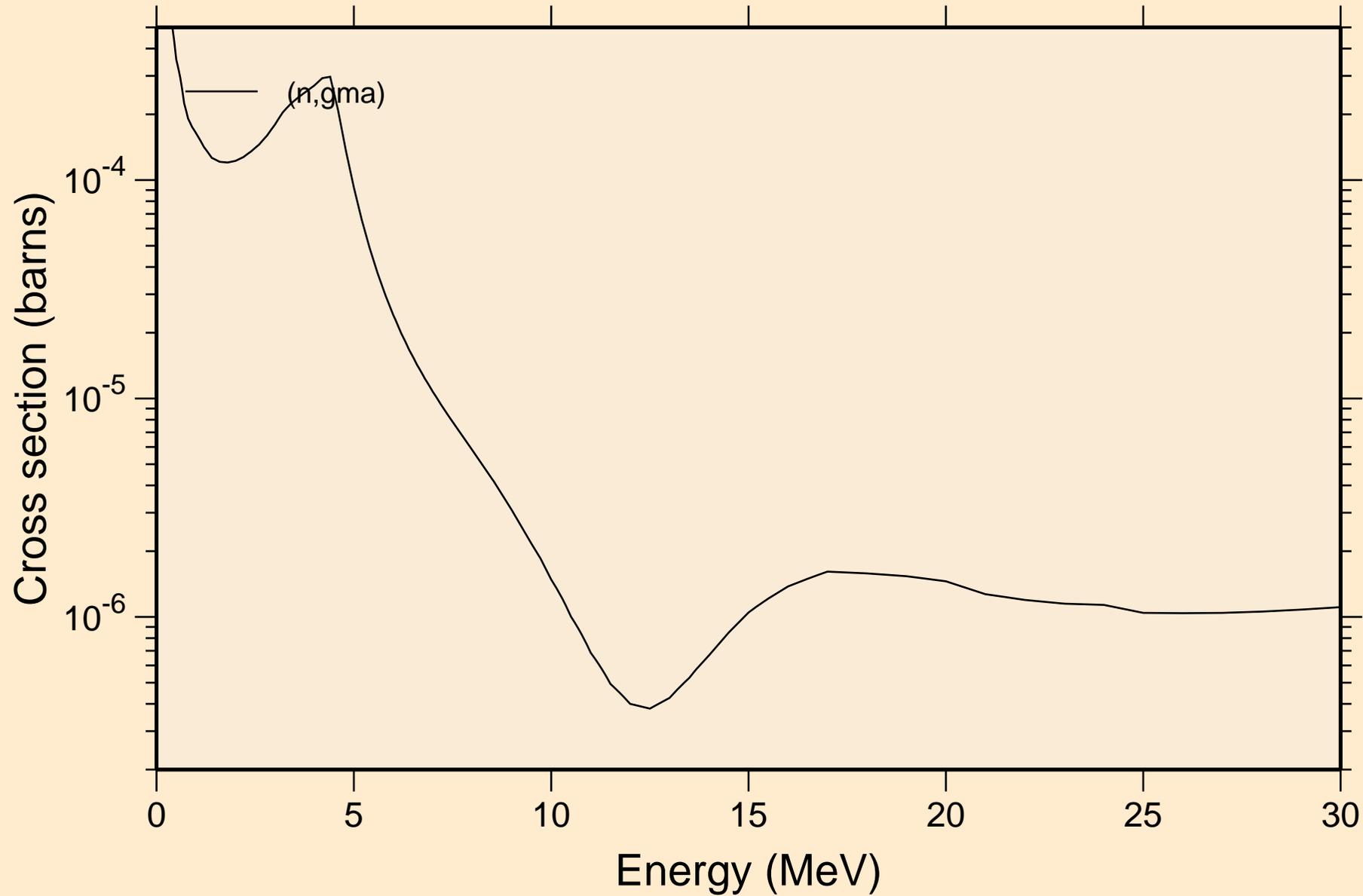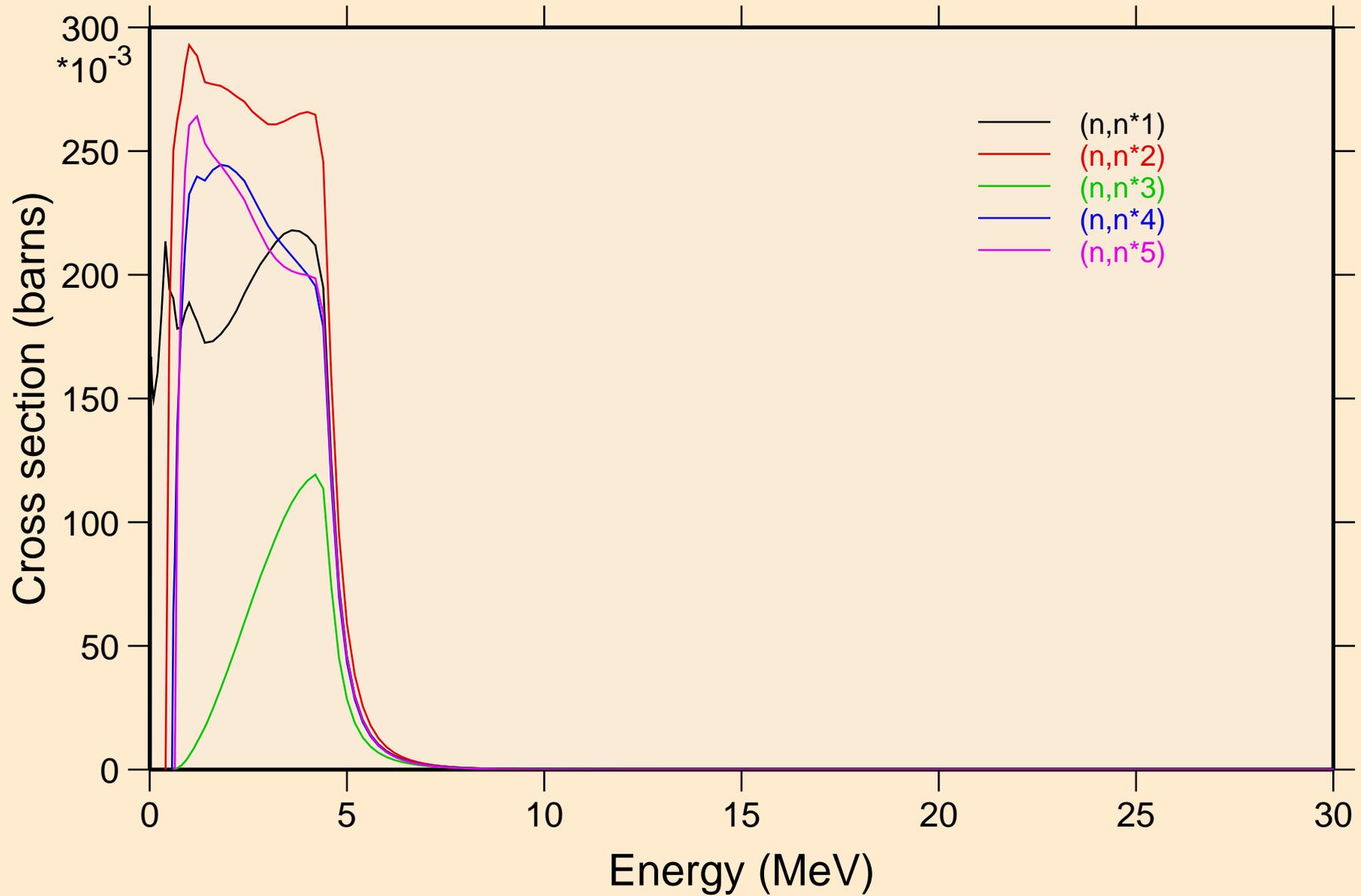IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Non-threshold reactions

(n,gma)

Cross section (barns)

Energy (MeV)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
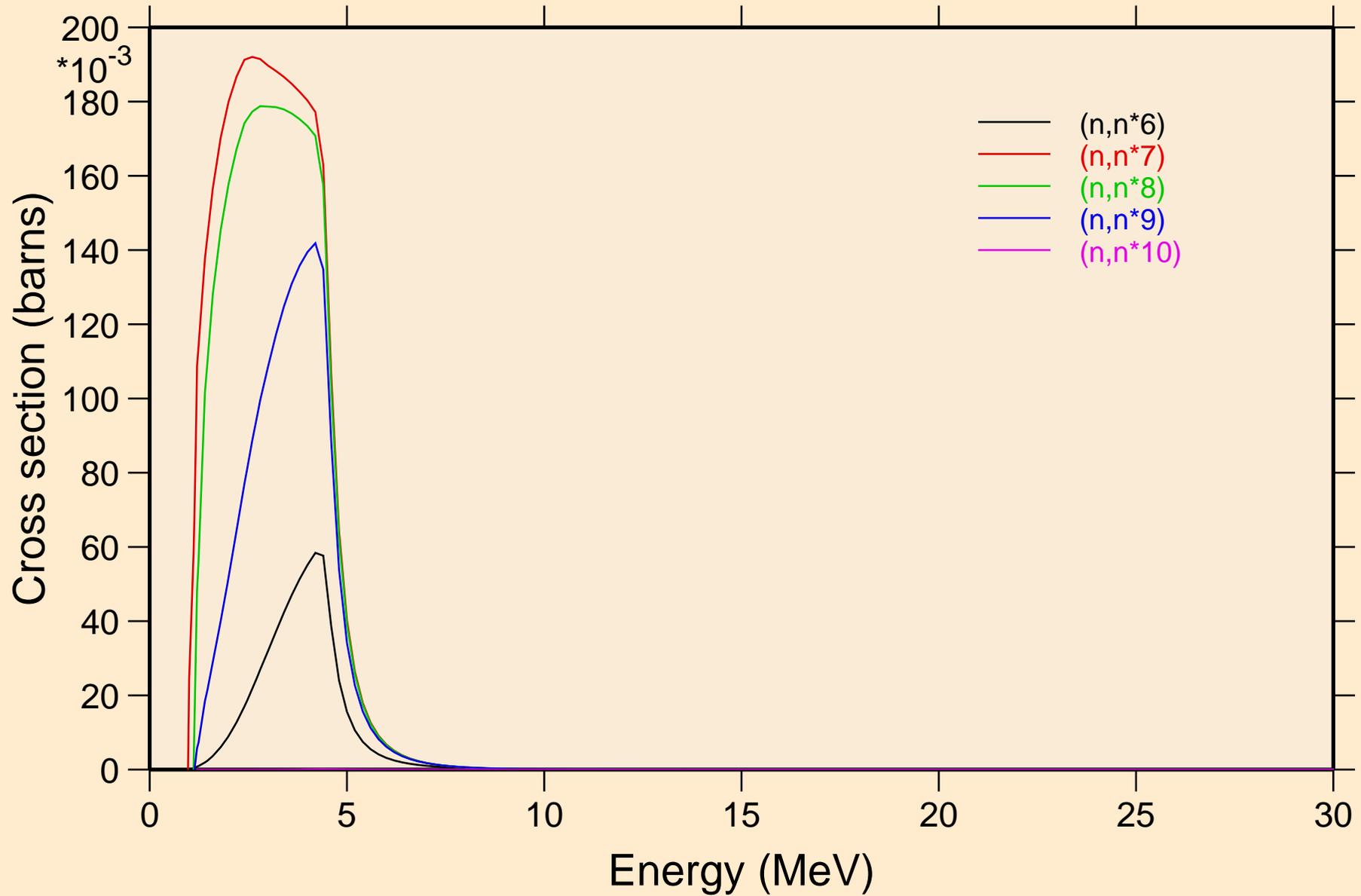Inelastic levels

- (n,n*1)
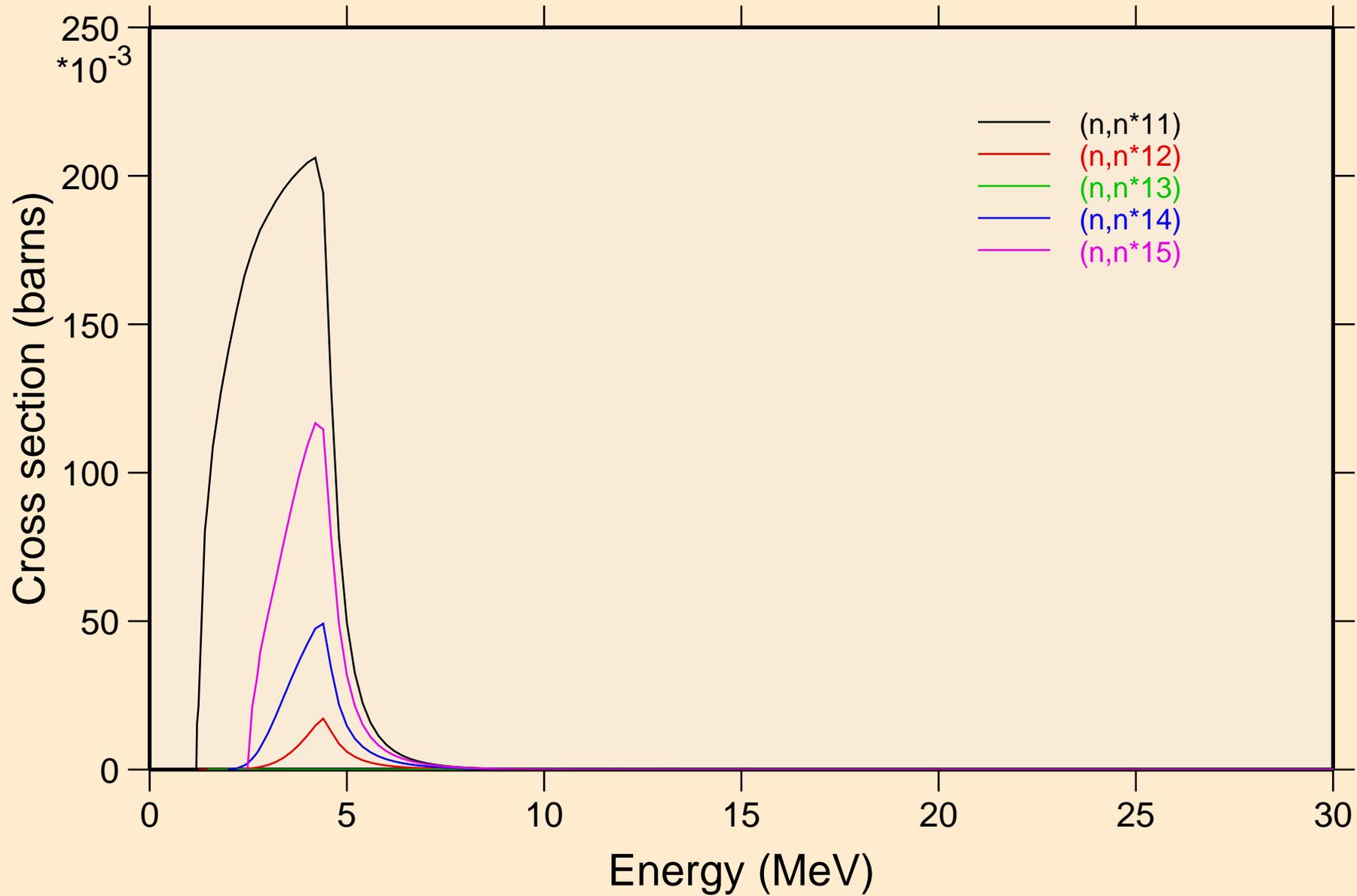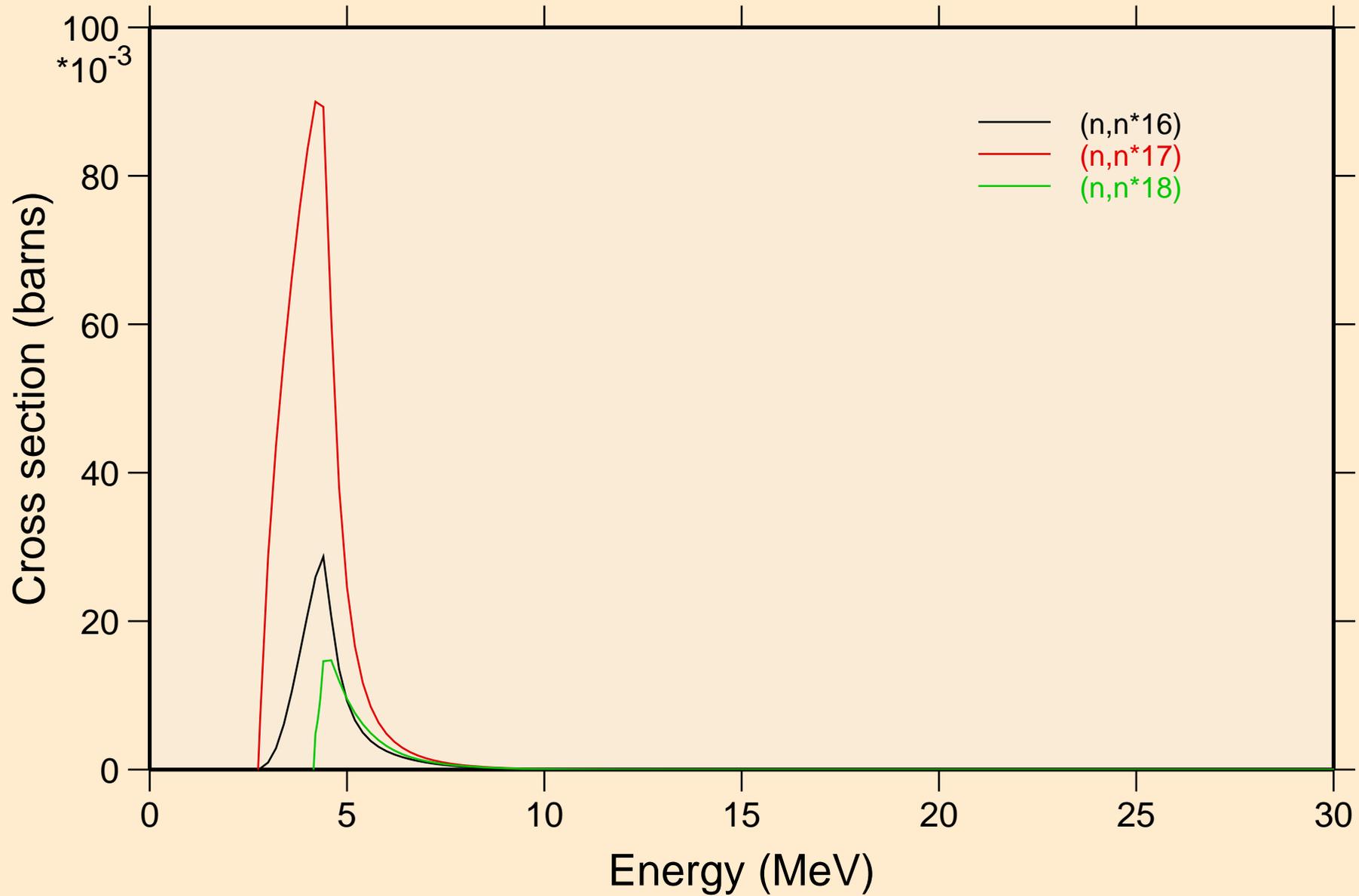- (n,n*2)
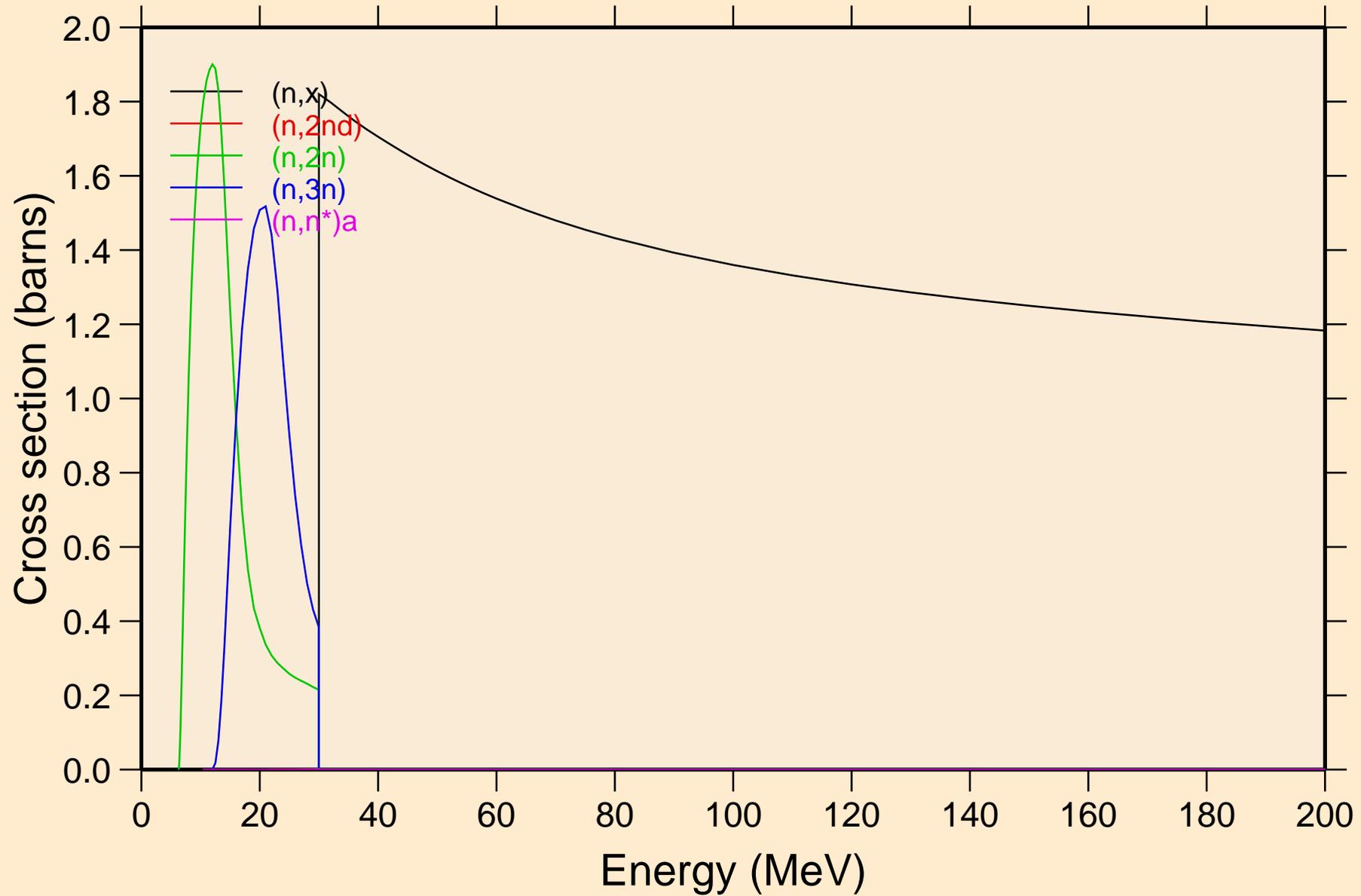- (n,n*3)
- (n,n*4)
- (n,n*5)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Inelastic levels

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Inelastic levels

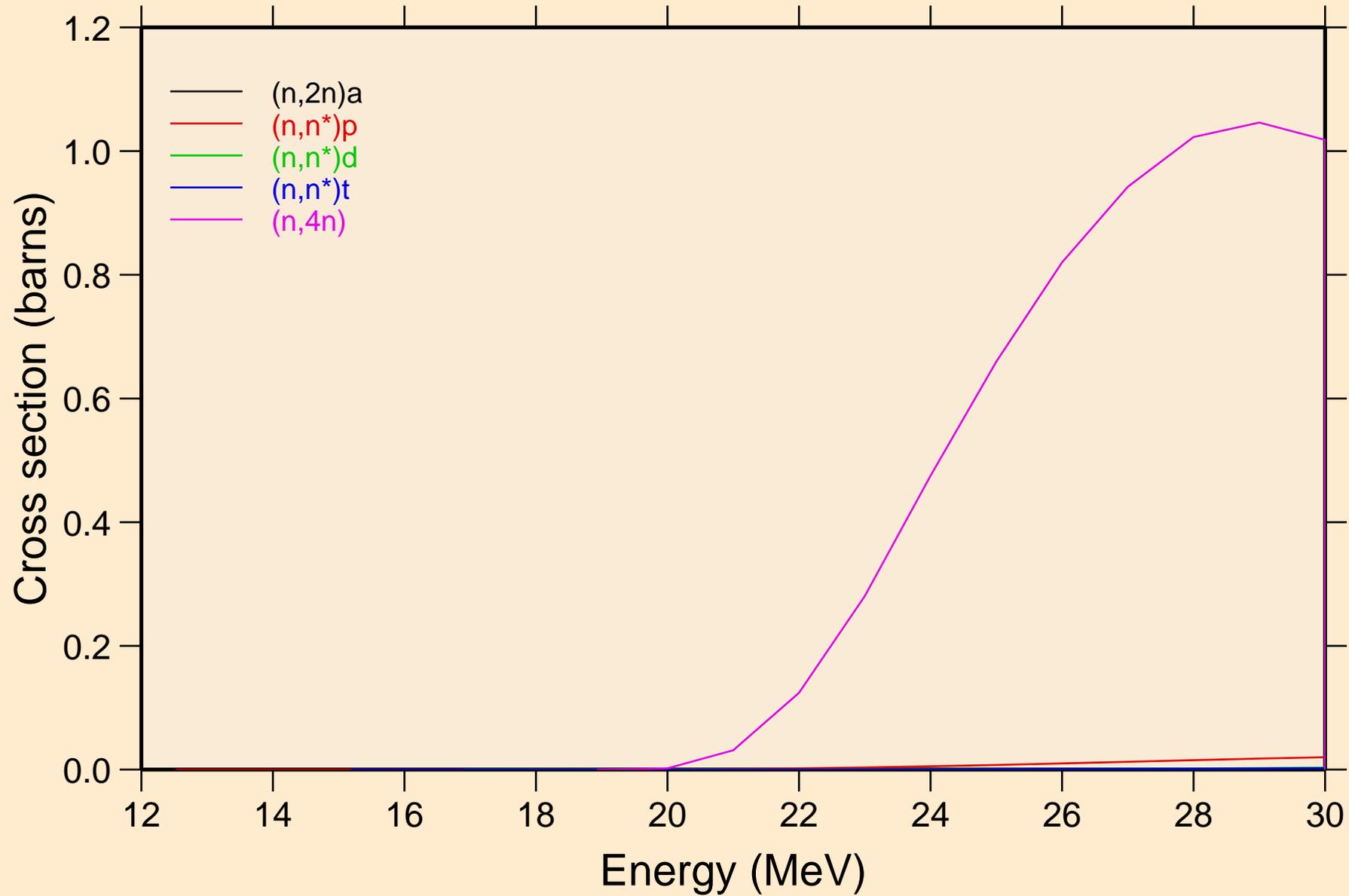IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Inelastic levels

(n,n*16)
(n,n*17)
(n,n*18)

Cross section (barns)

Energy (MeV)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Threshold reactions

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Threshold reactions

Legend:
- (n,2n)a
- (n,n*)p
- (n,n*)d
- (n,n*)t
- (n,4n)

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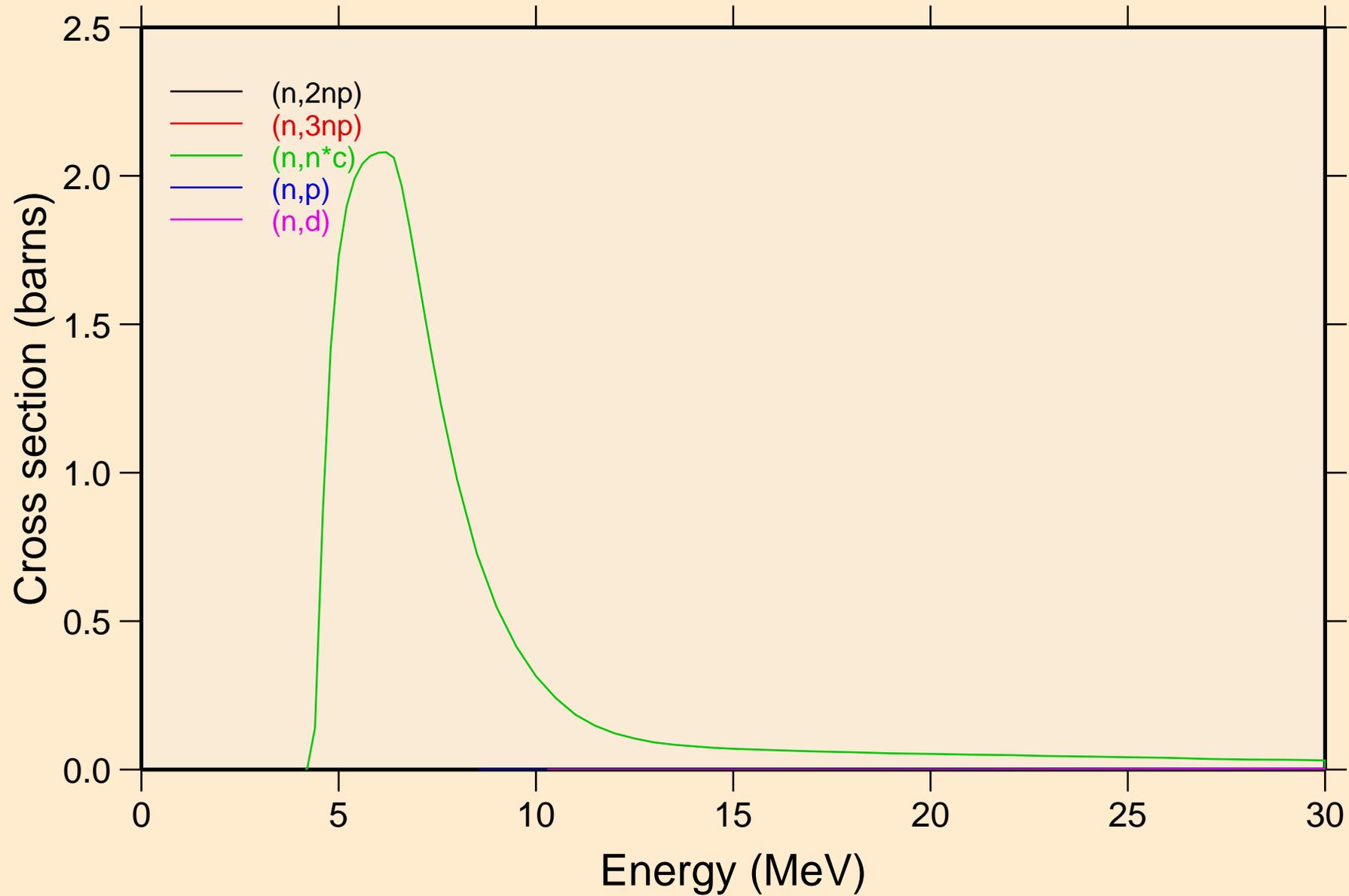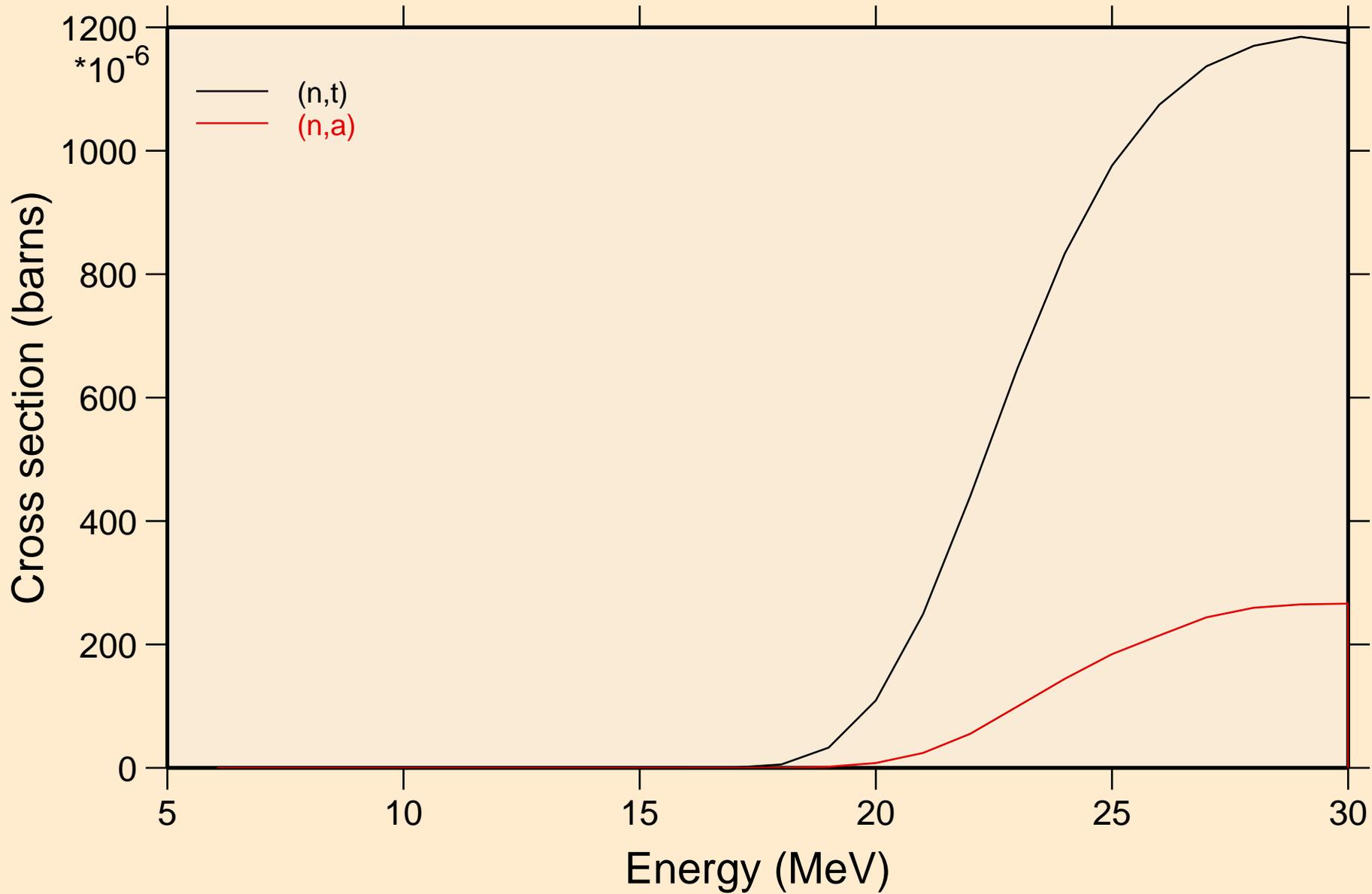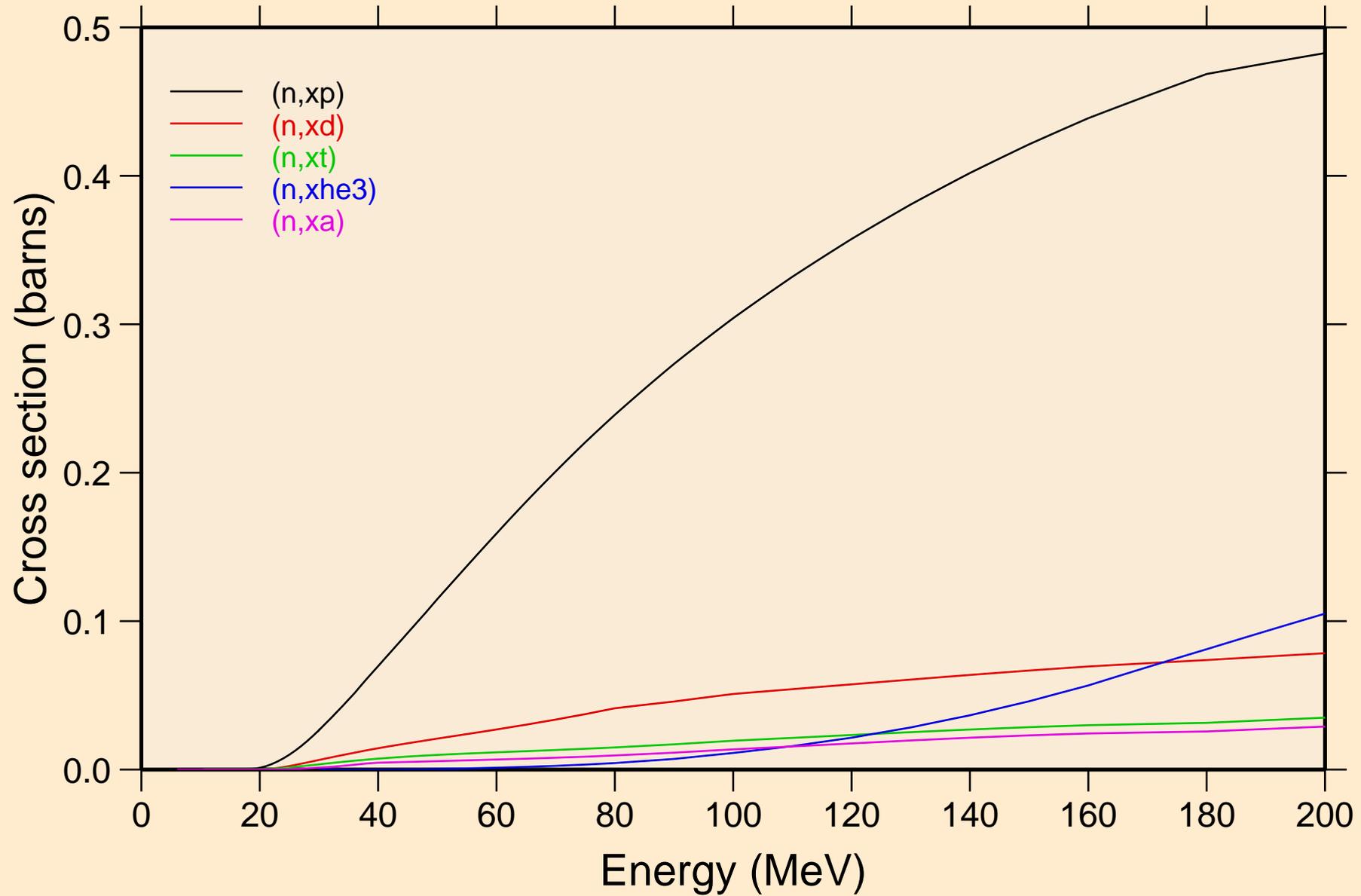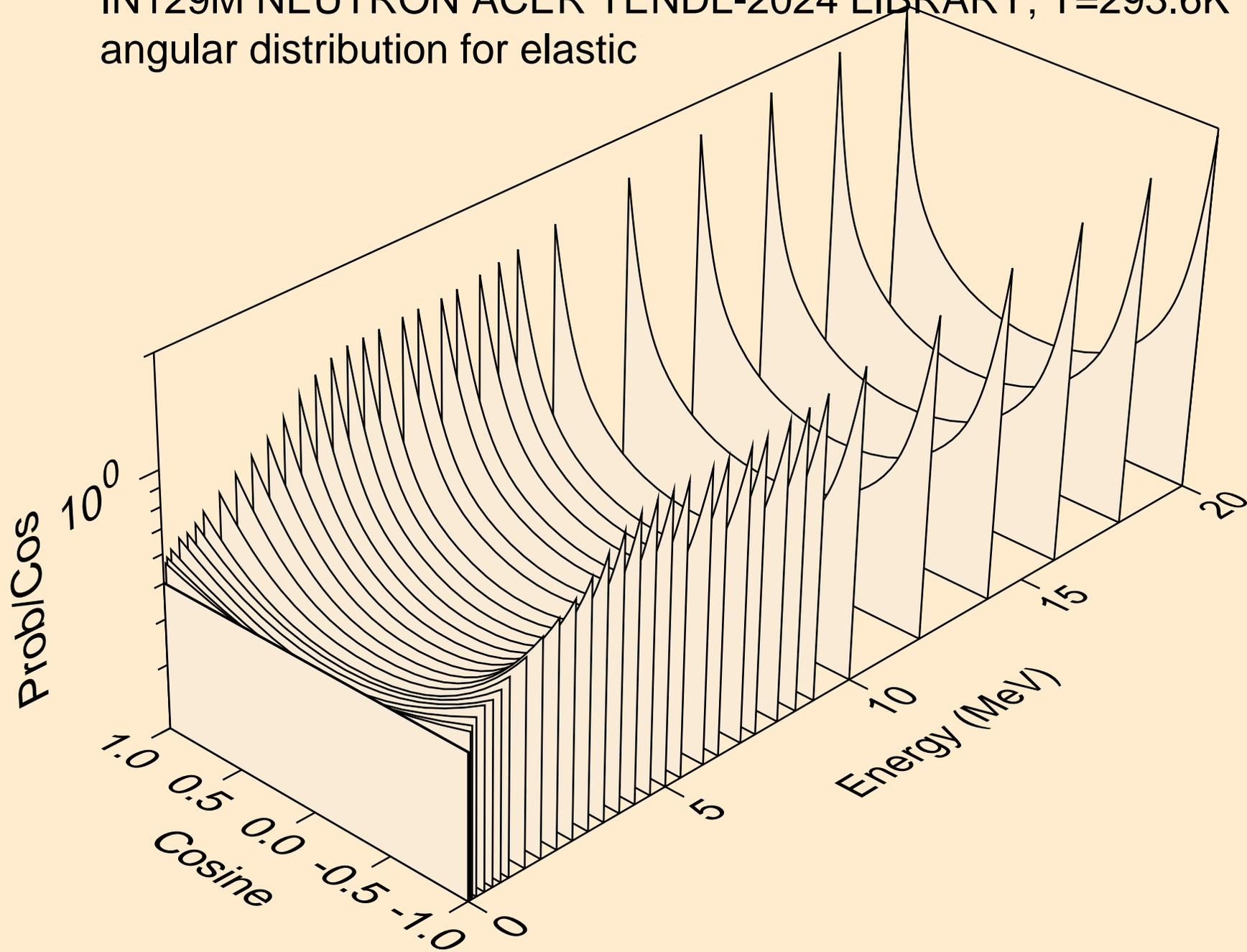Y-axis: Cross section (barns)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Threshold reactions

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Threshold reactions

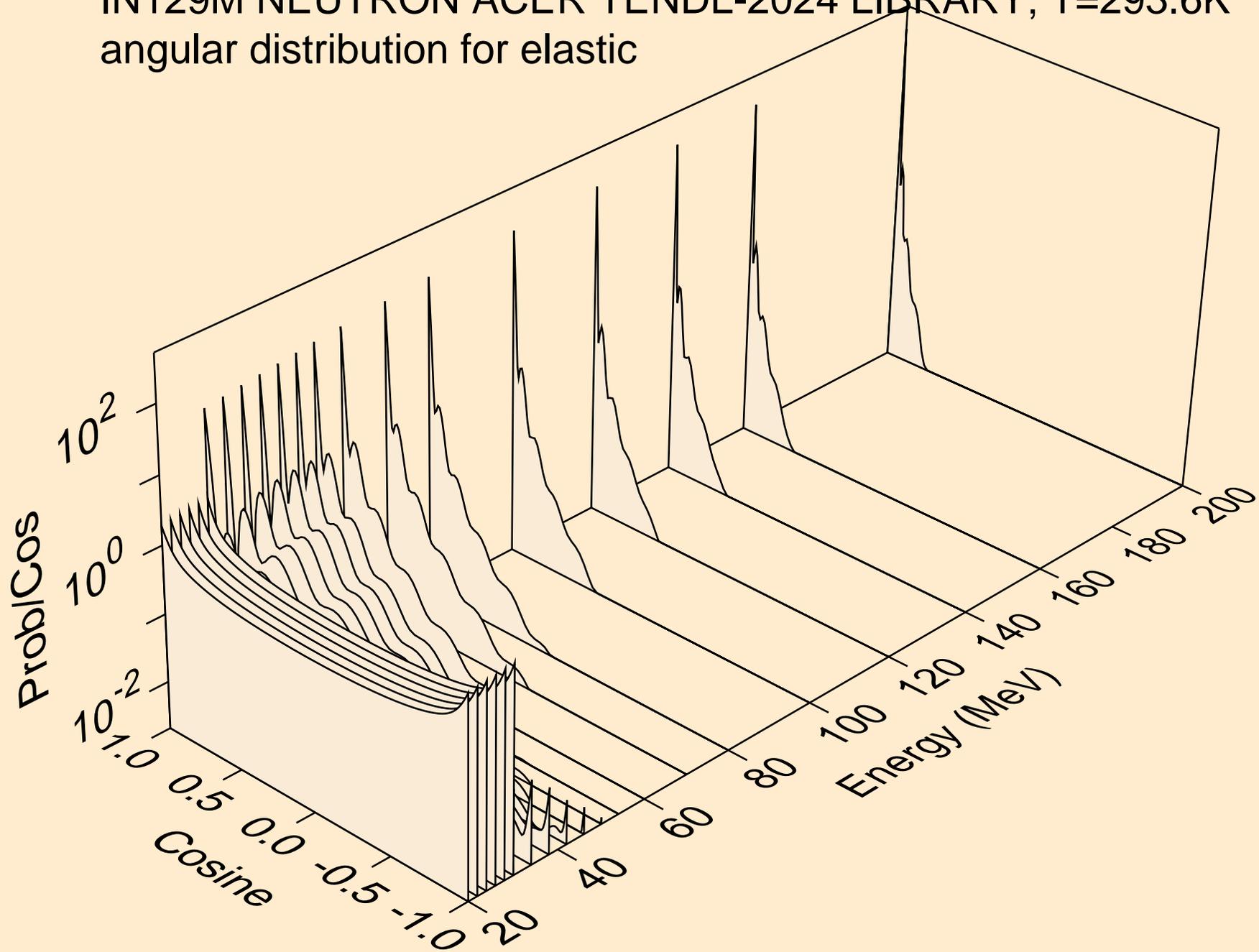IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Threshold reactions

Legend:
- (n,xp) — black
- (n,xd) — red
- (n,xt) — green
- (n,xhe3) — blue
- (n,xa) — magenta

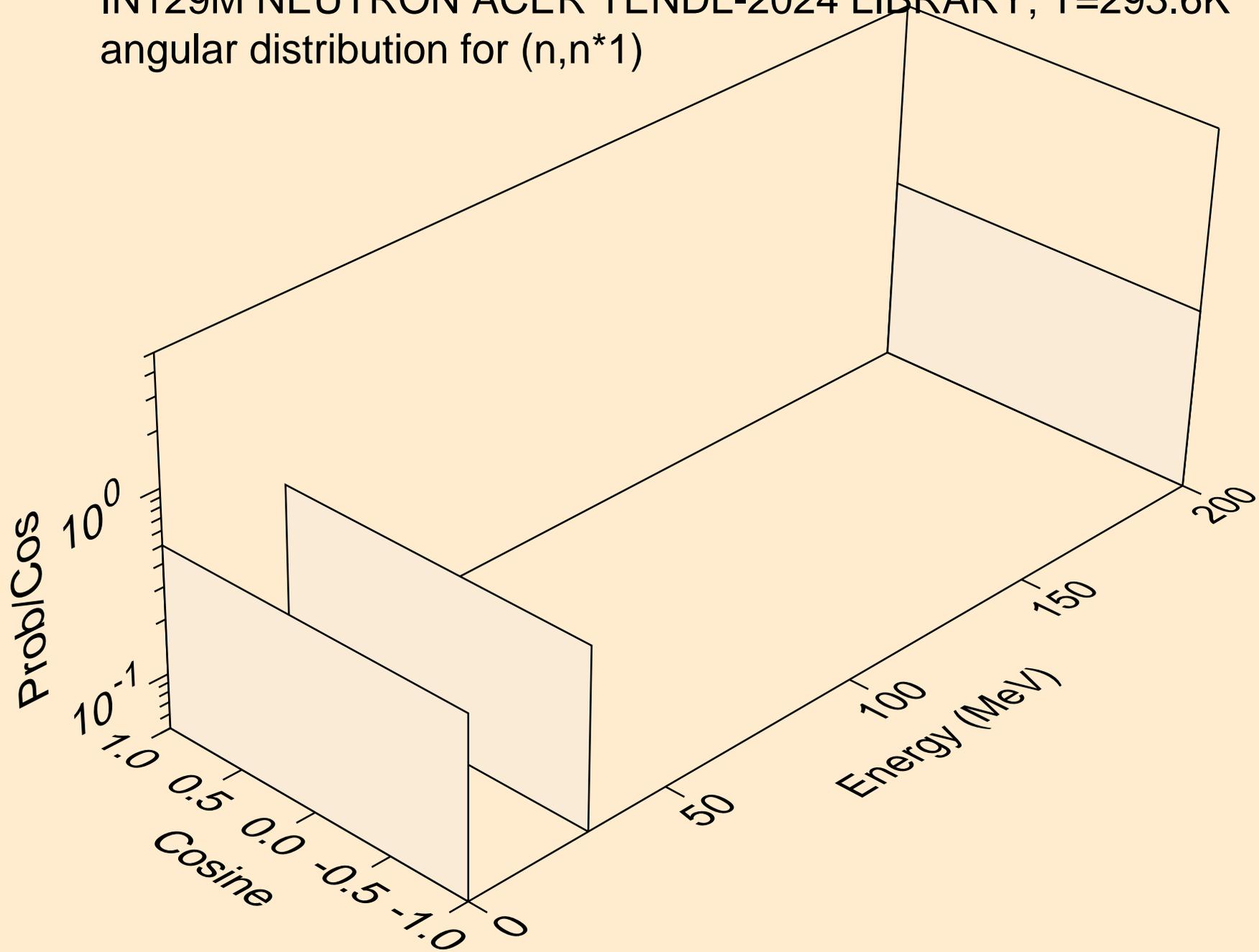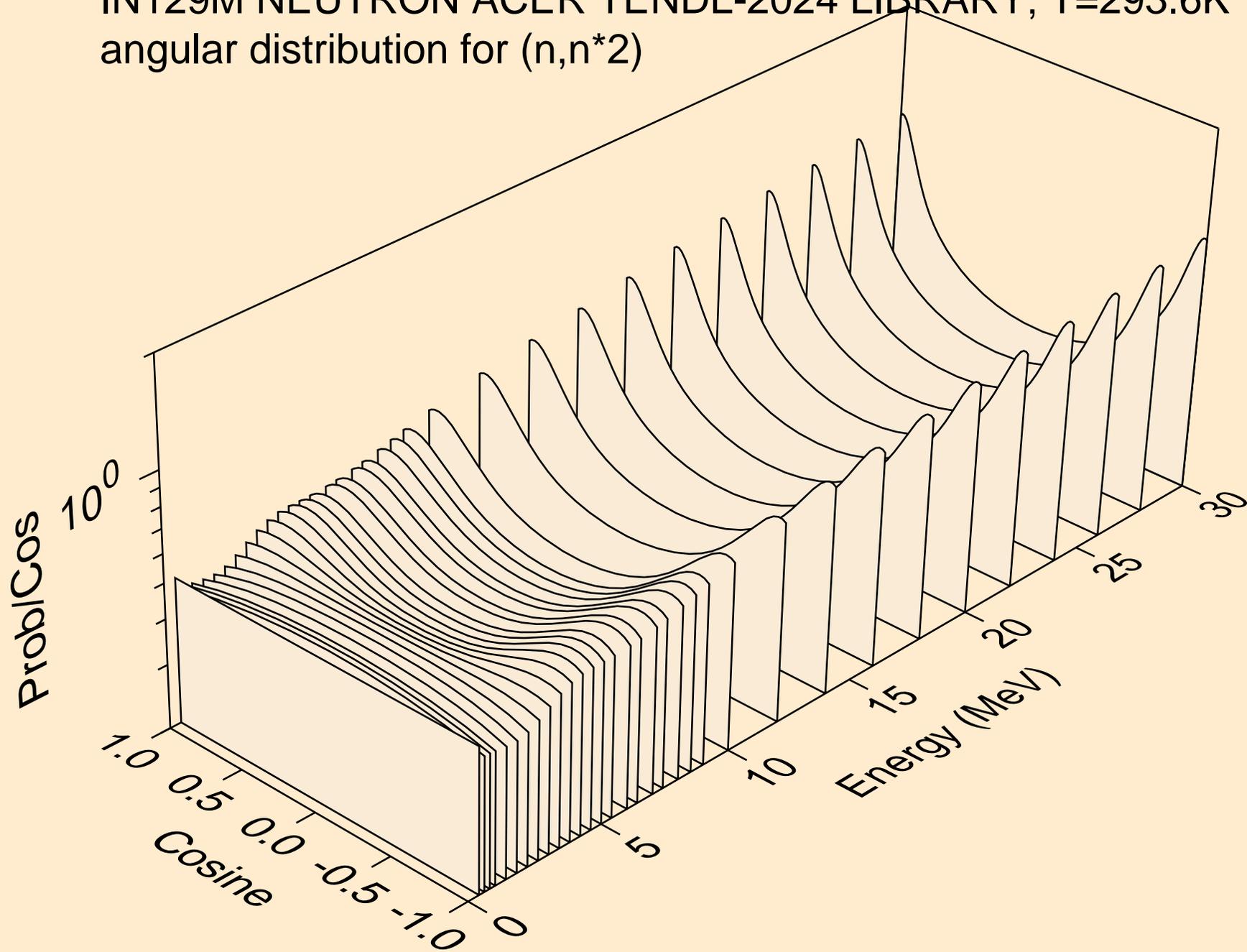X-axis: Energy (MeV)
Y-axis: Cross section (barns)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
angular distribution for elastic

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
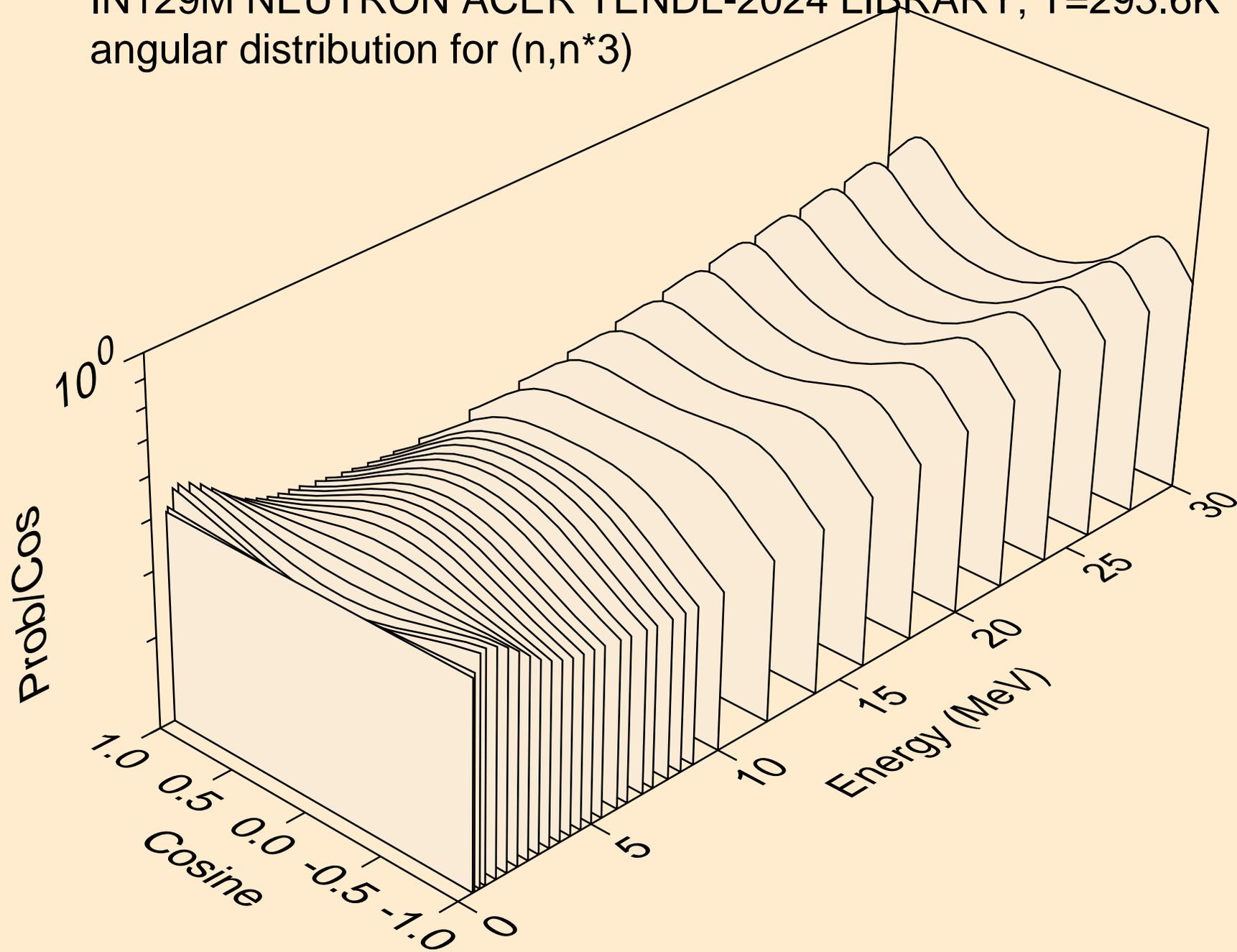angular distribution for elastic

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
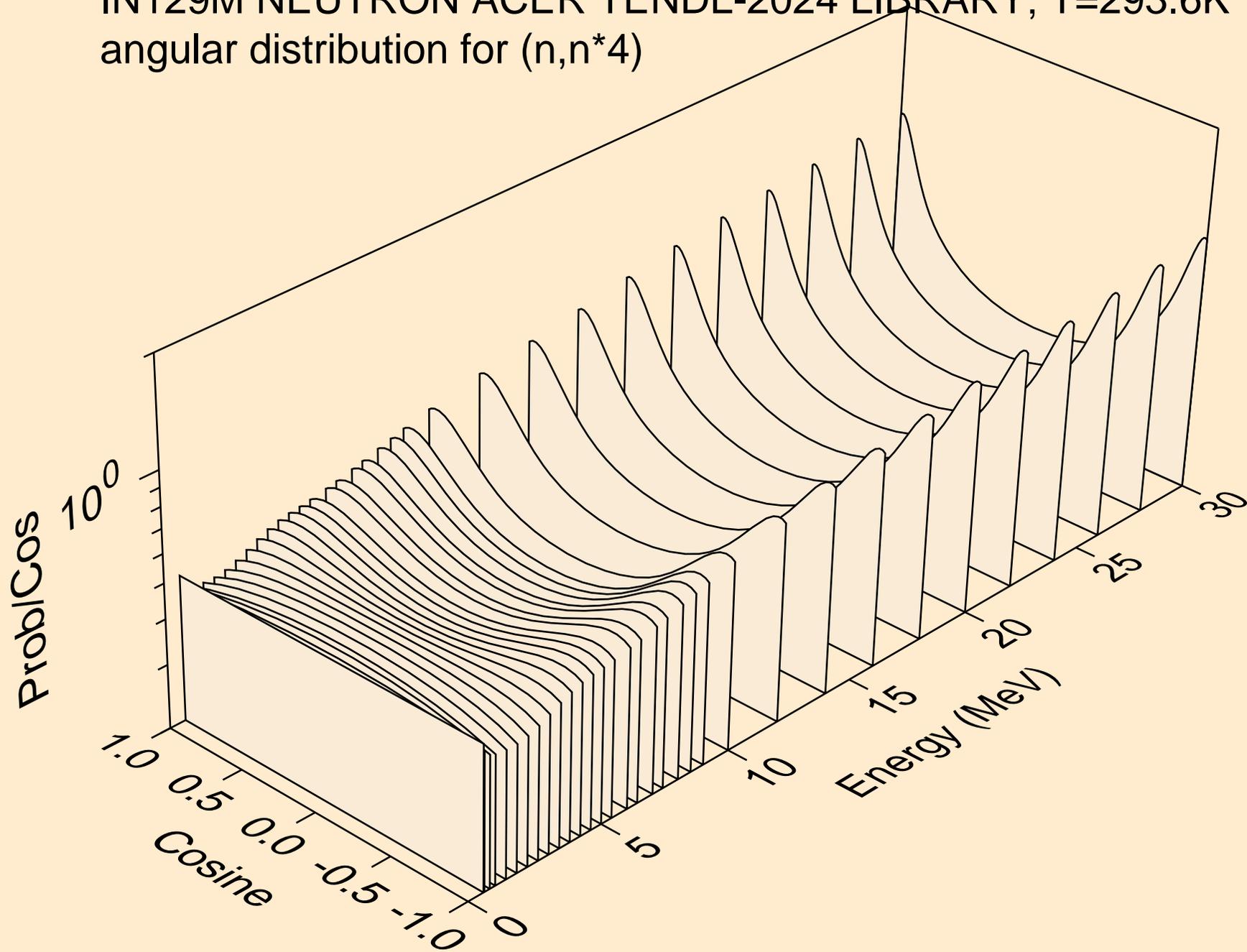angular distribution for (n,n*1)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
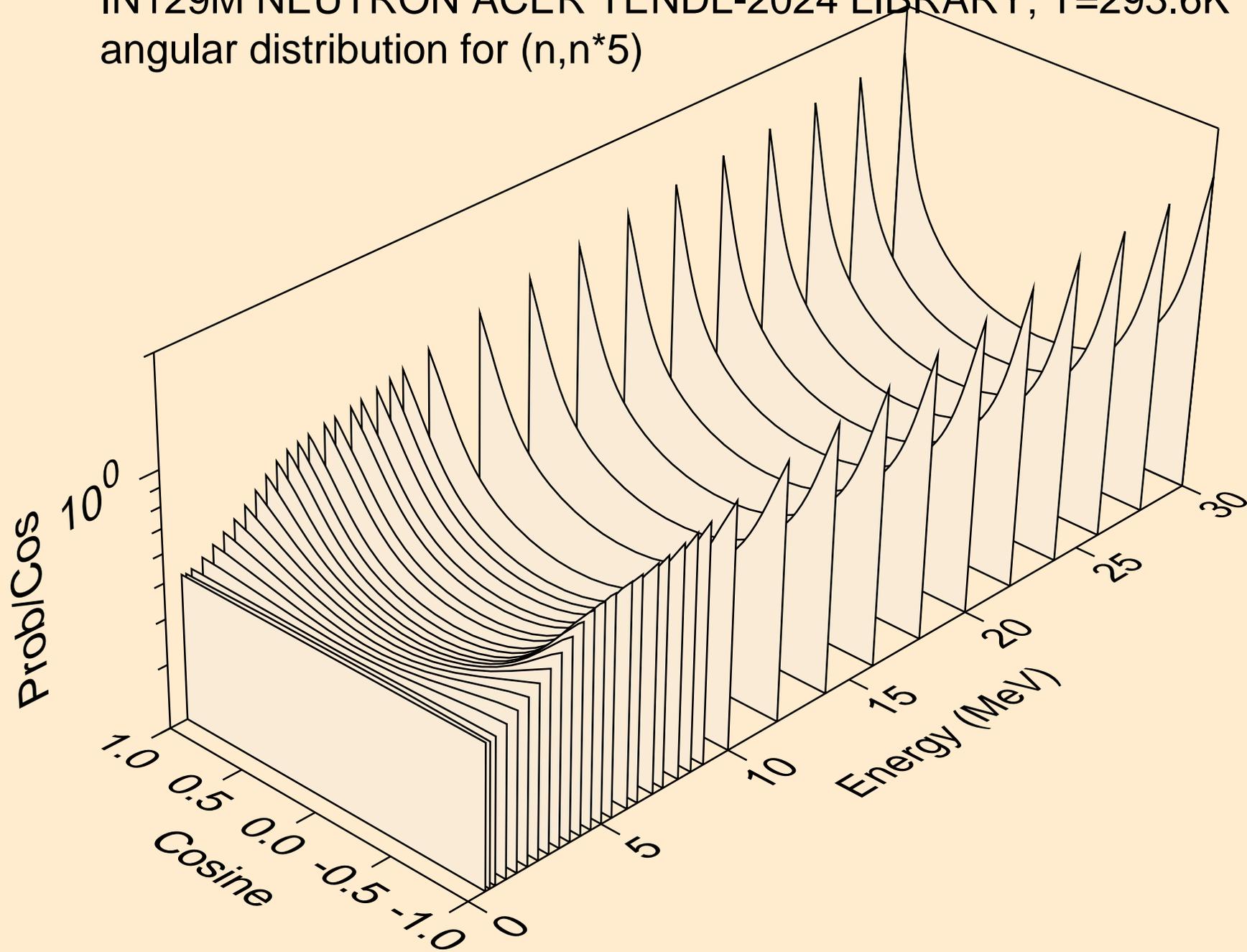angular distribution for (n,n*2)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
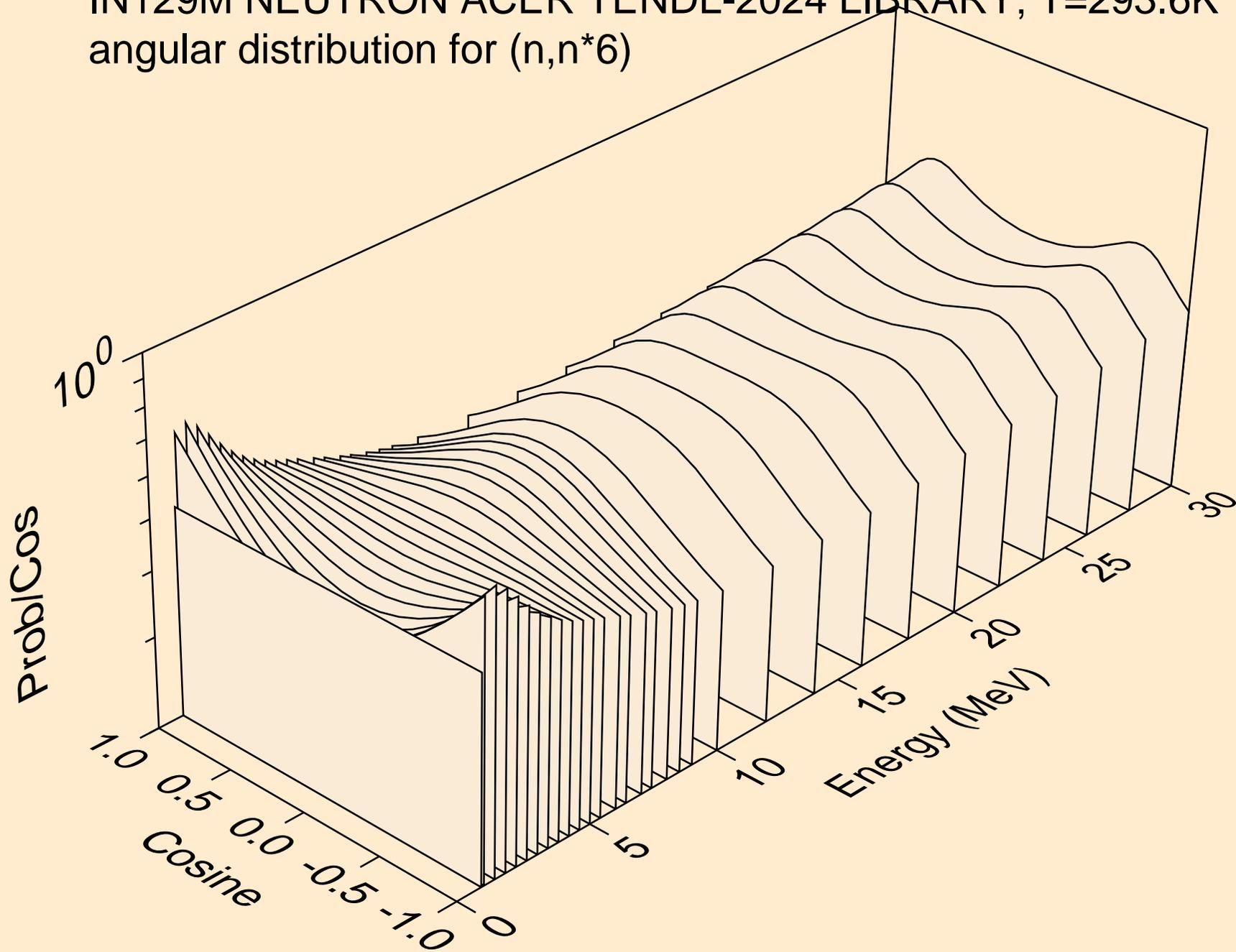angular distribution for (n,n*3)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
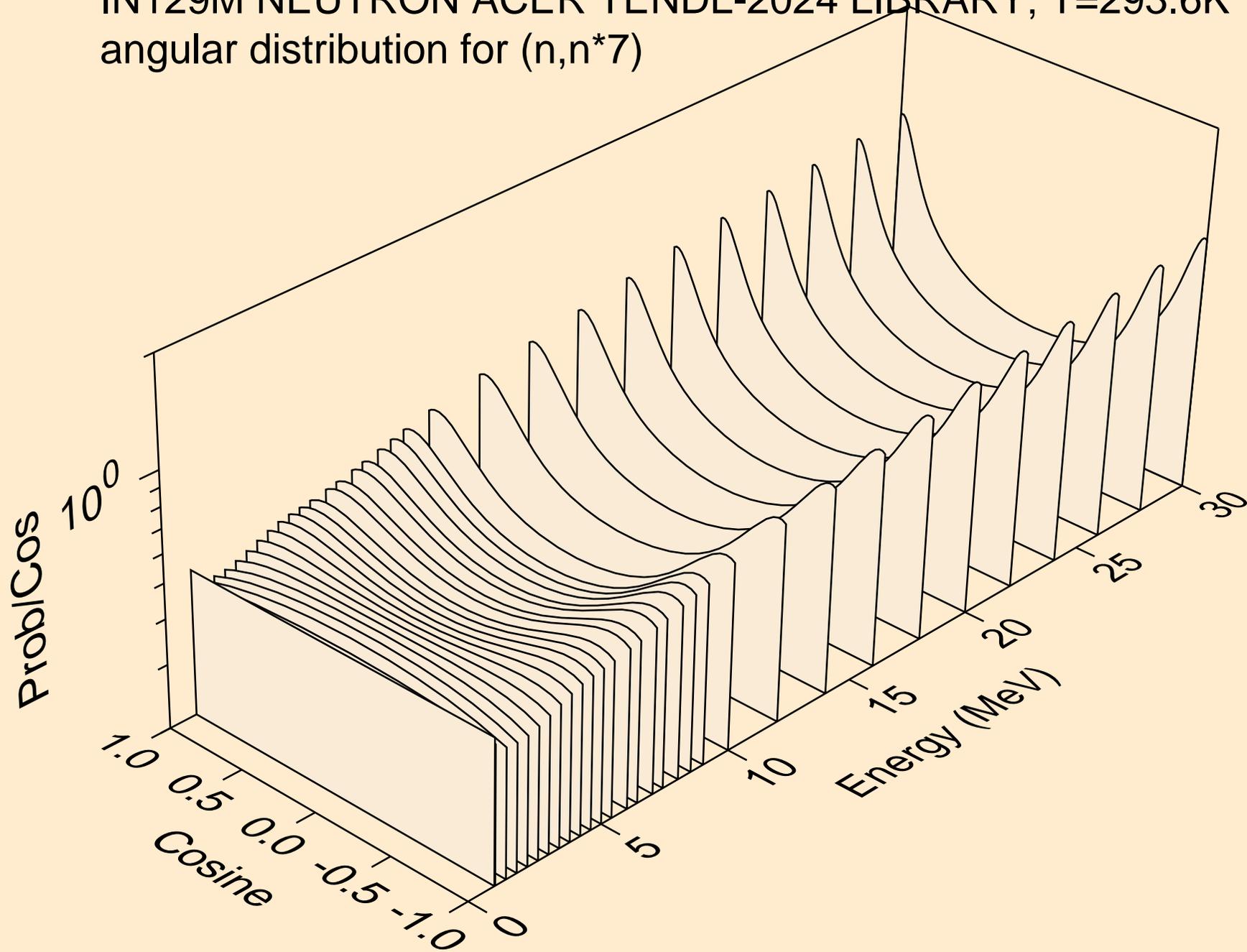angular distribution for (n,n*4)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
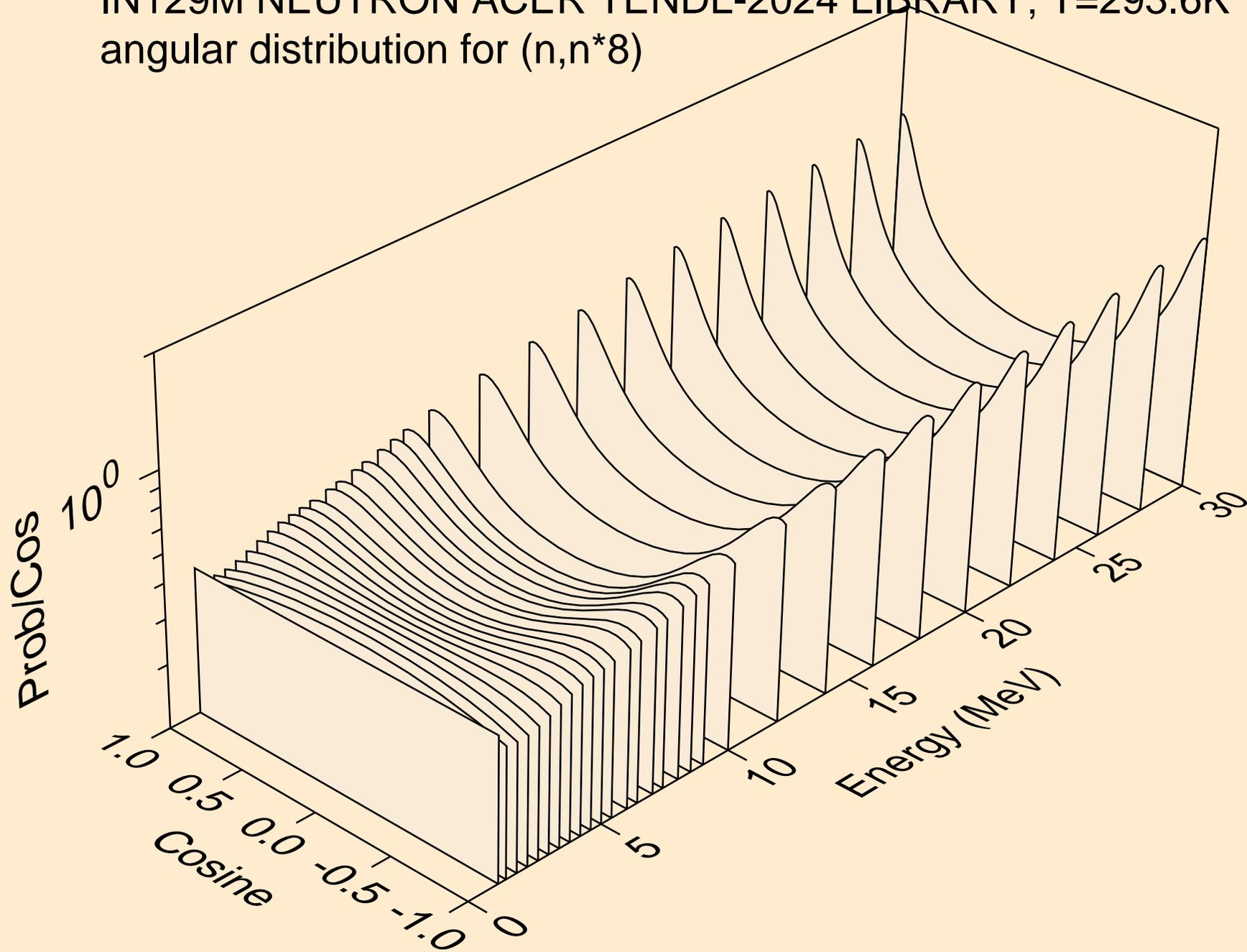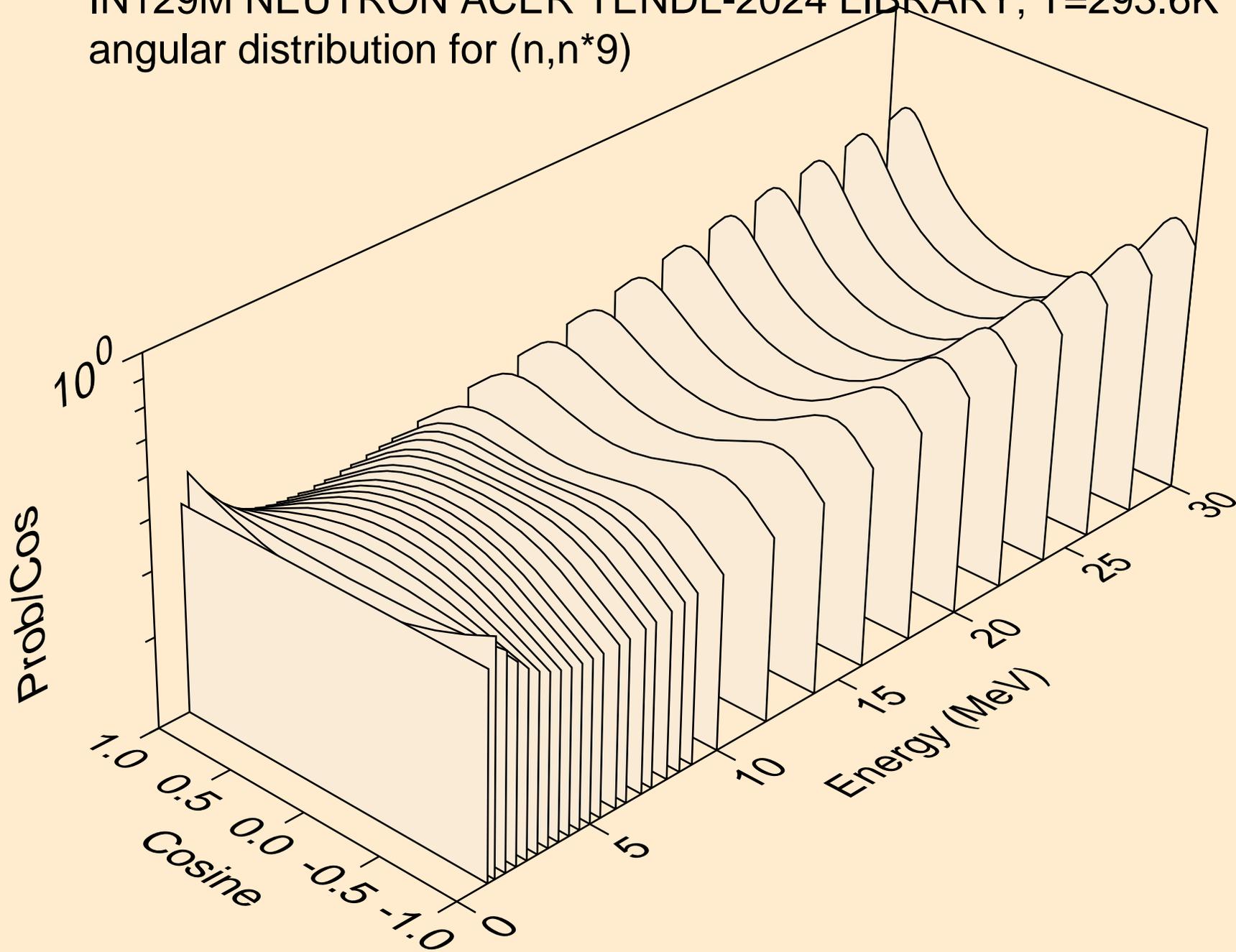angular distribution for (n,n*5)

ProbICos

10^0

Cosine

1.0 0.5 0.0 -0.5 -1.0 0

Energy (MeV)

5 10 15 20 25 30

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
angular distribution for (n,n*6)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
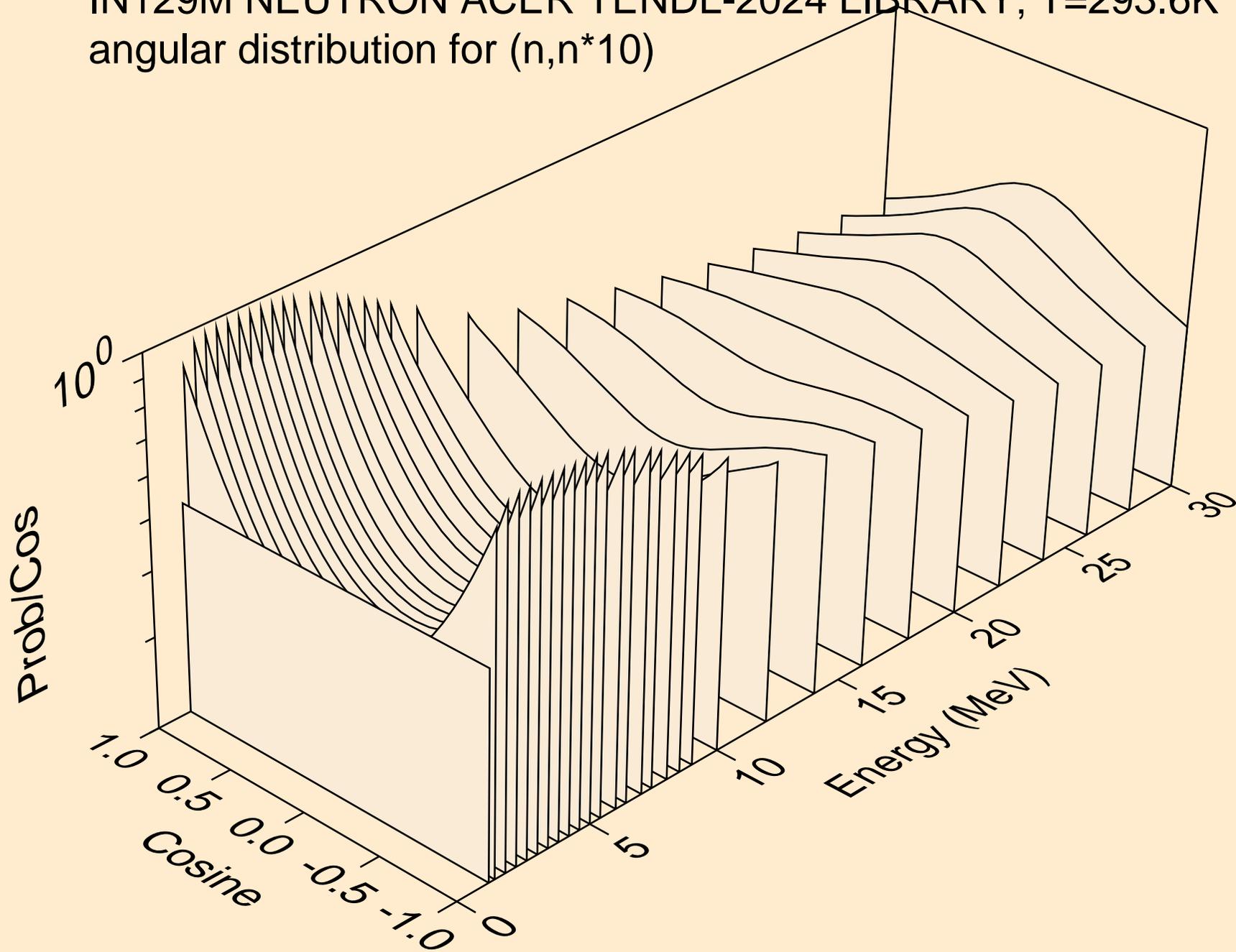angular distribution for (n,n*7)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
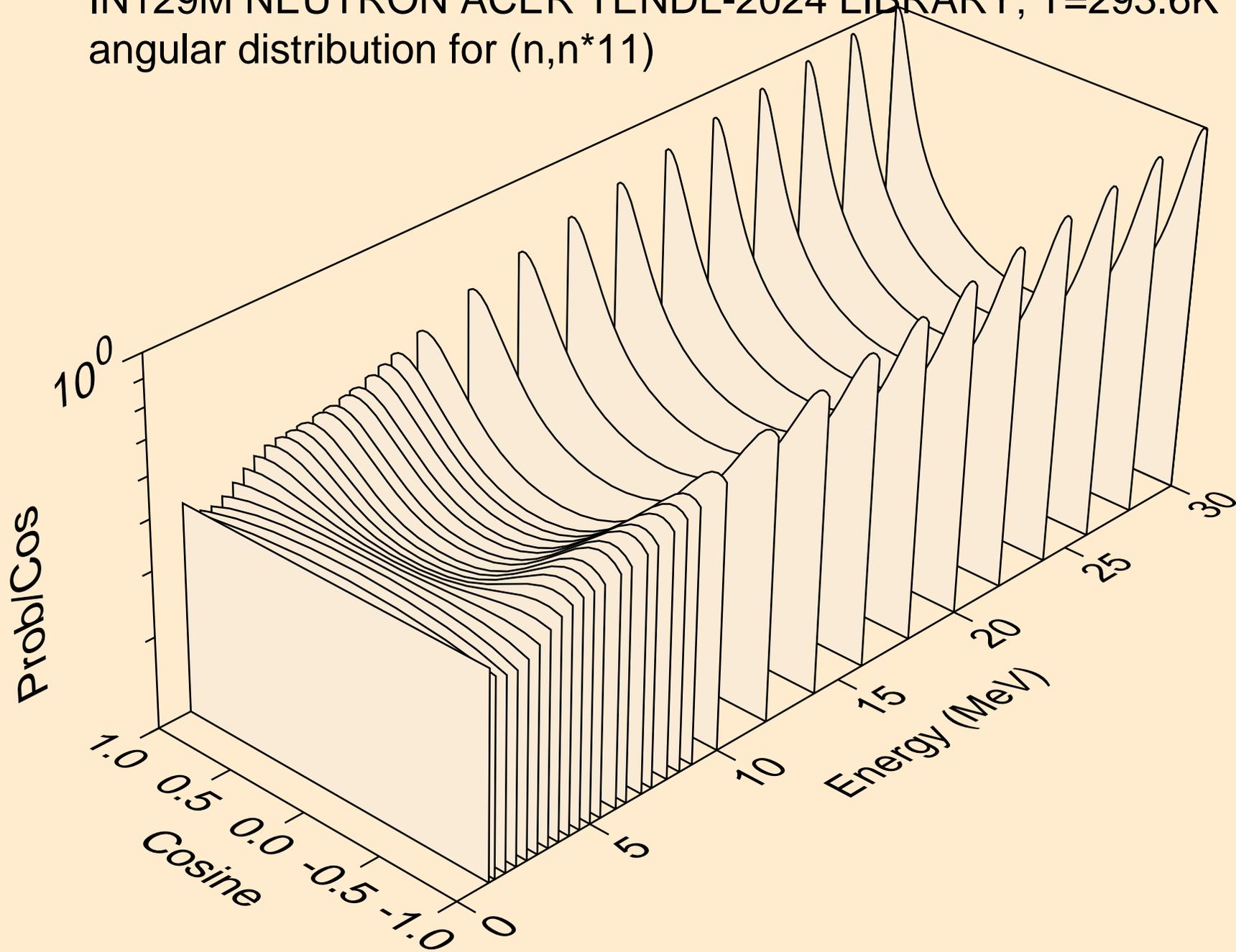angular distribution for (n,n*8)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
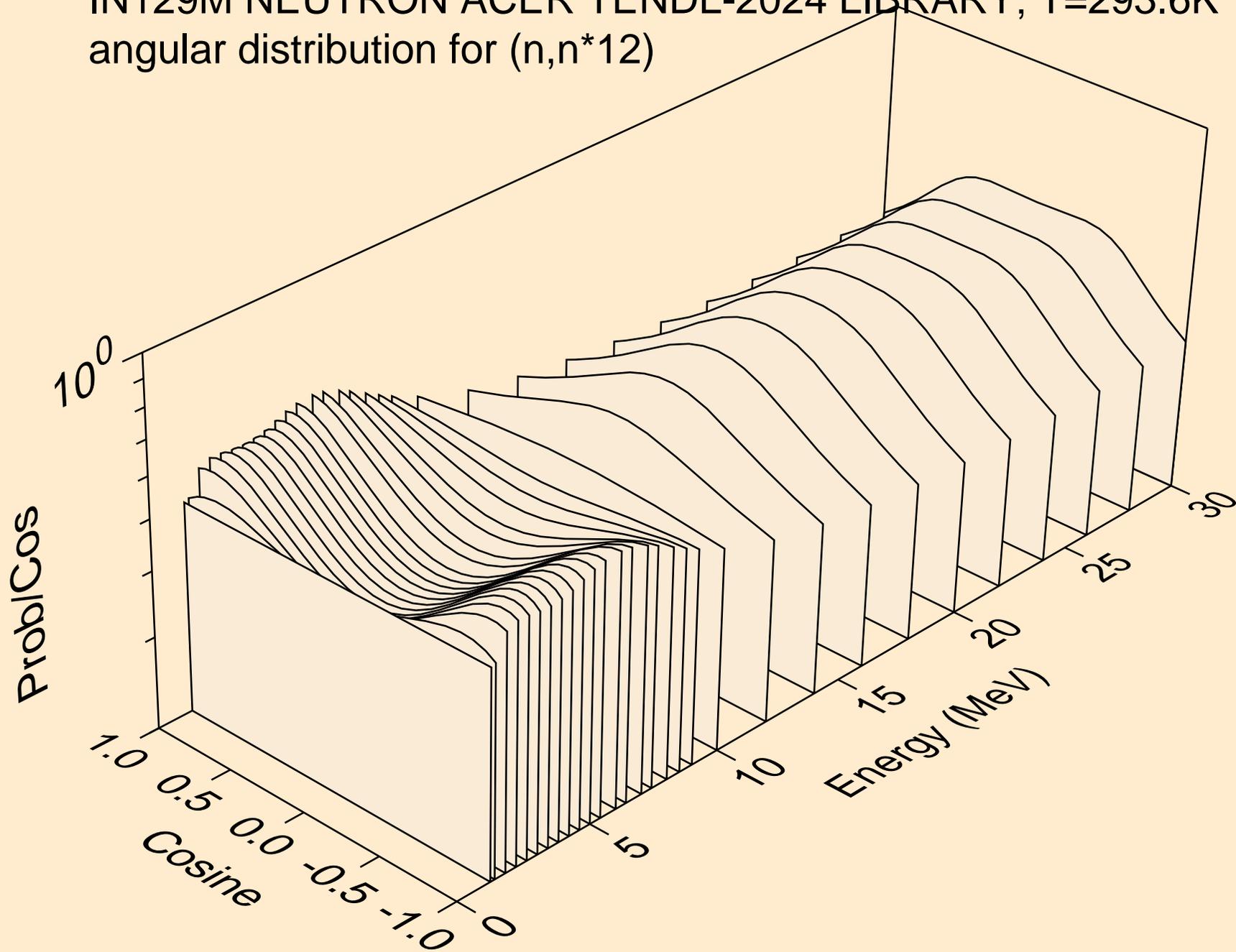angular distribution for (n,n*9)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
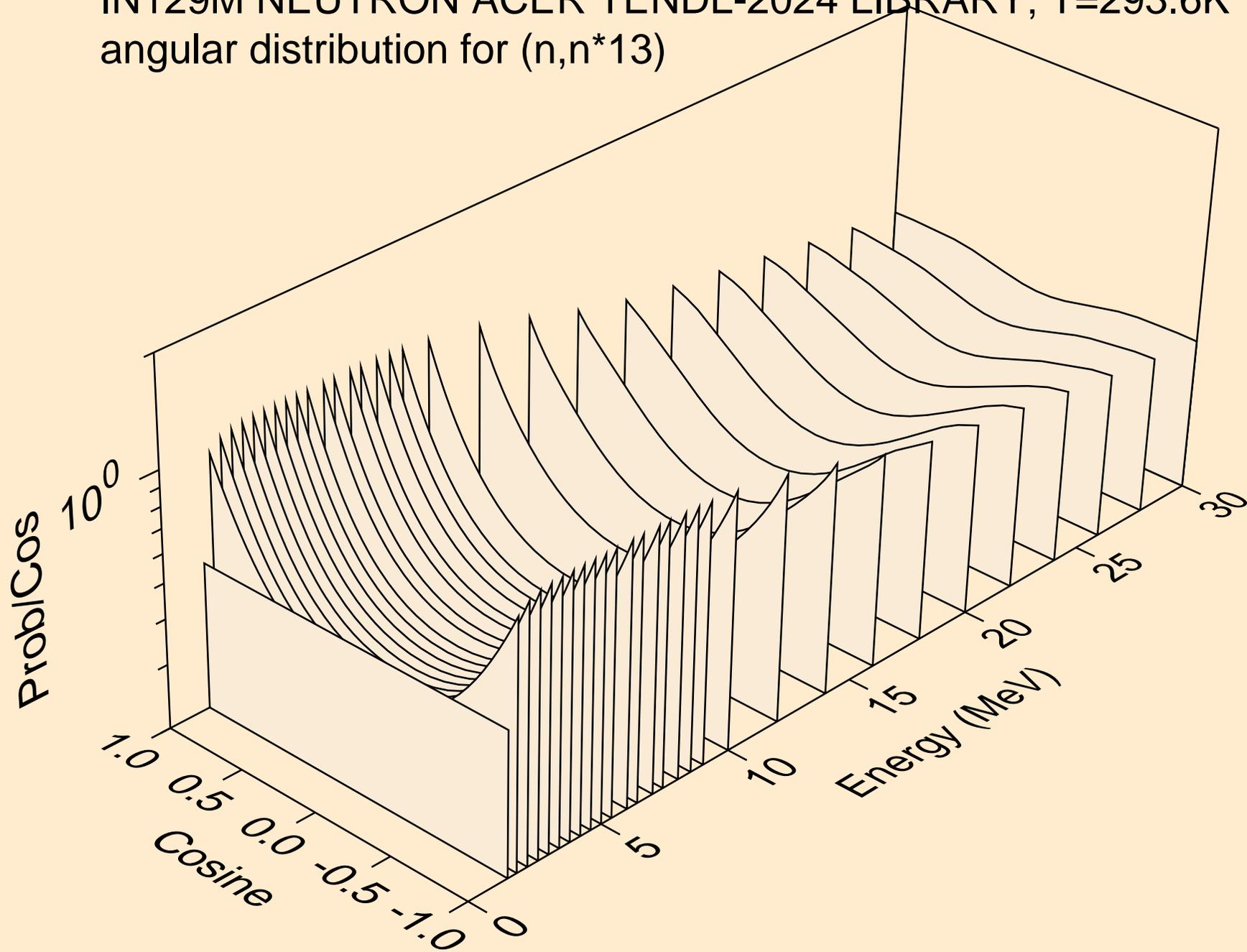angular distribution for (n,n*10)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
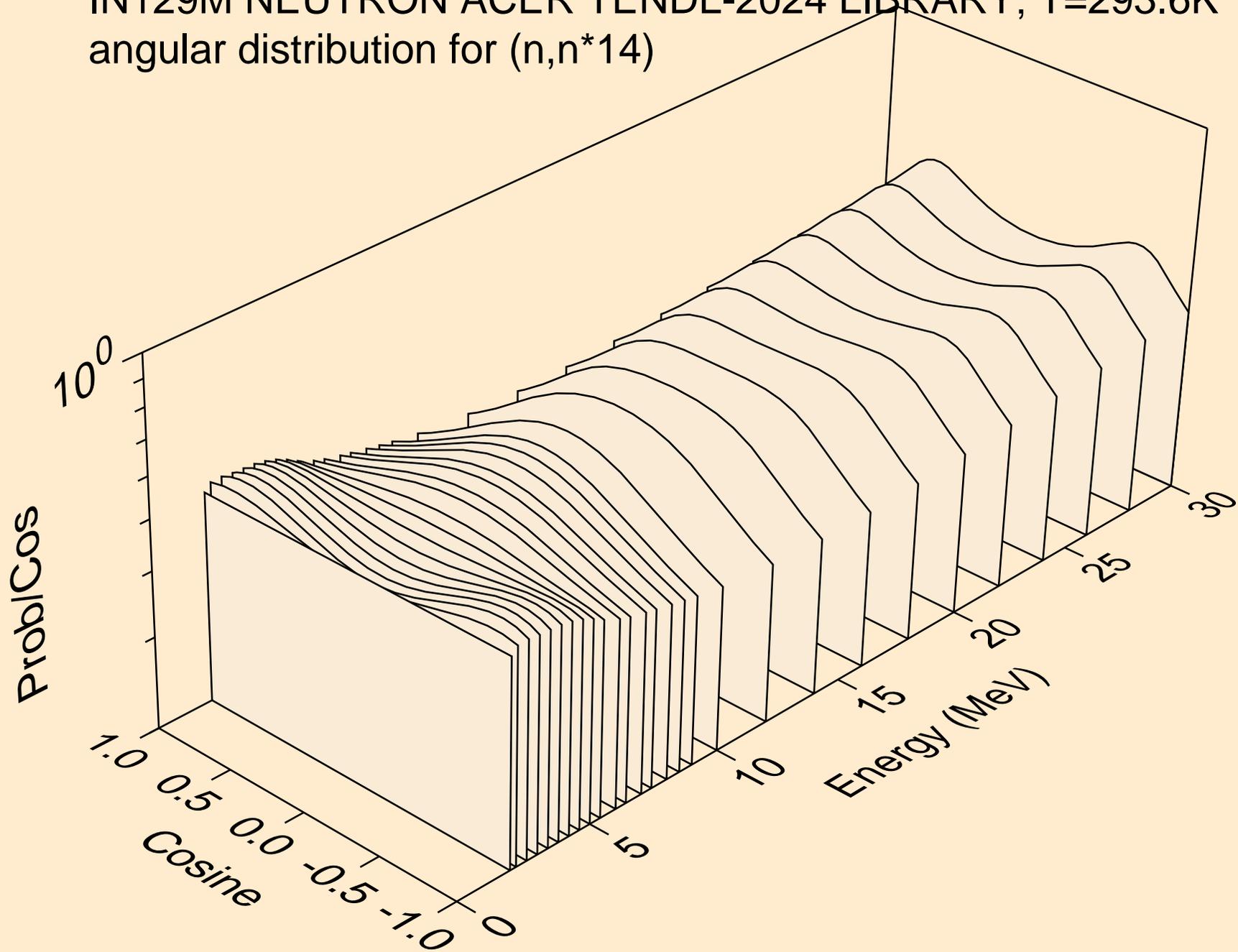angular distribution for (n,n*11)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
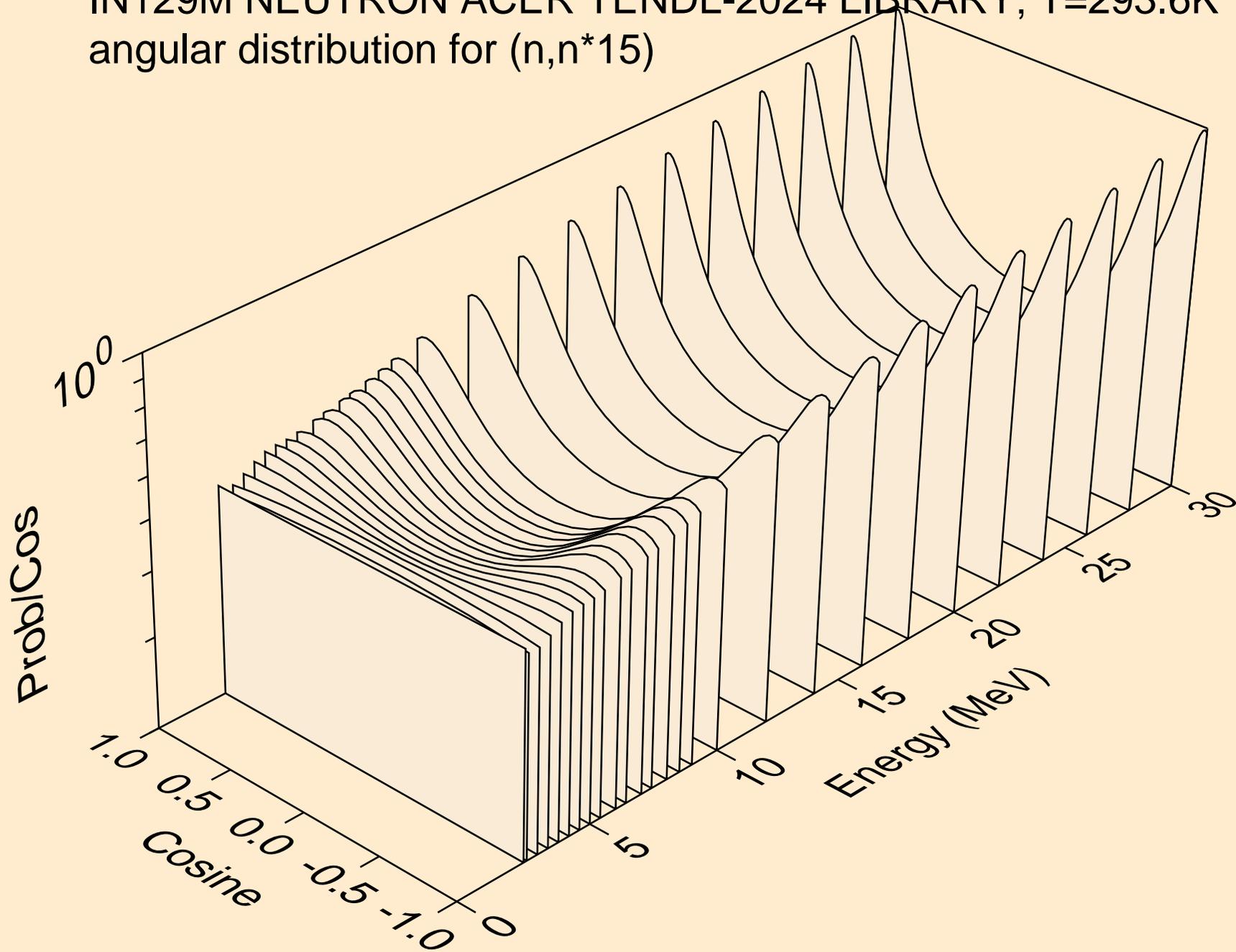angular distribution for (n,n*12)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
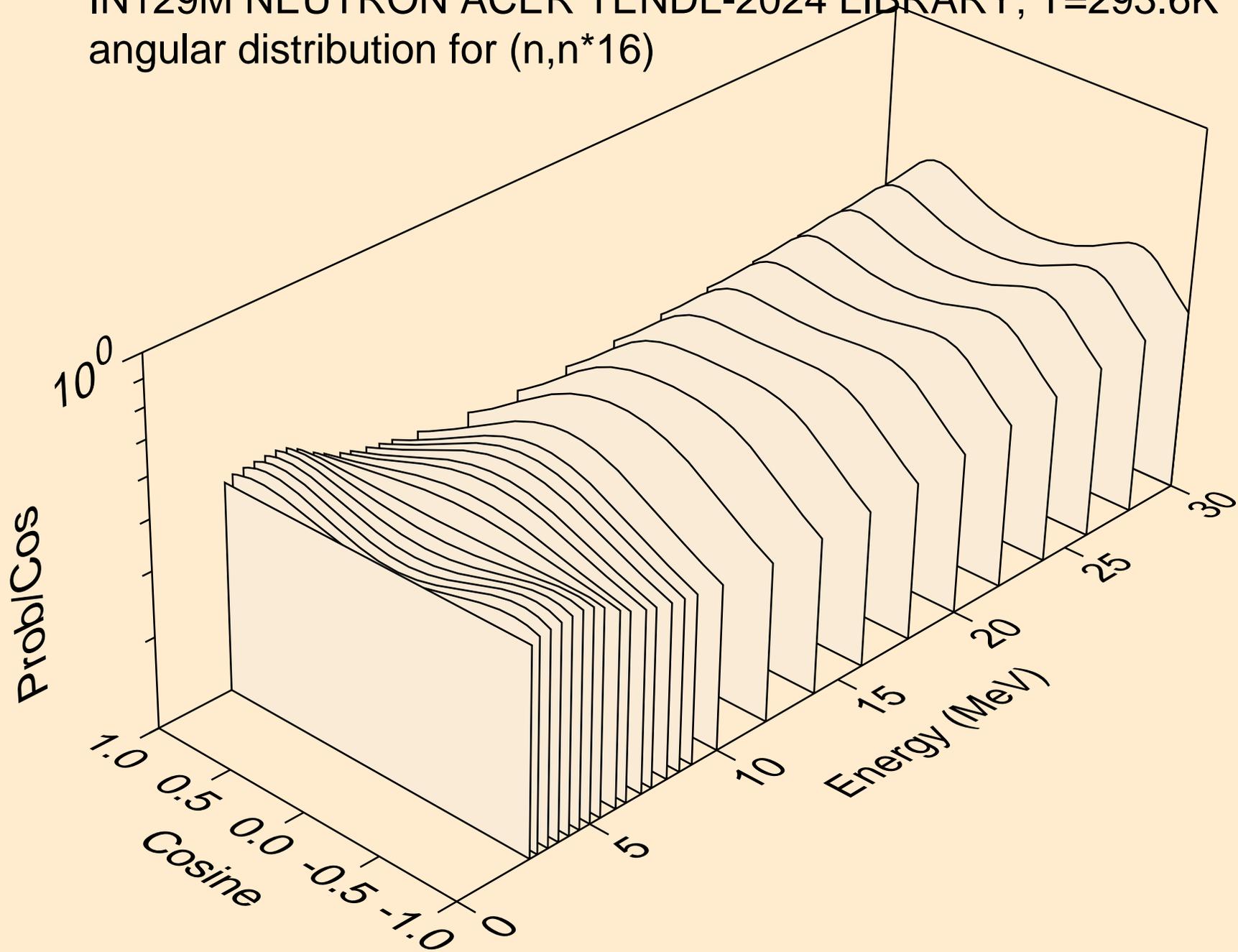angular distribution for (n,n*13)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
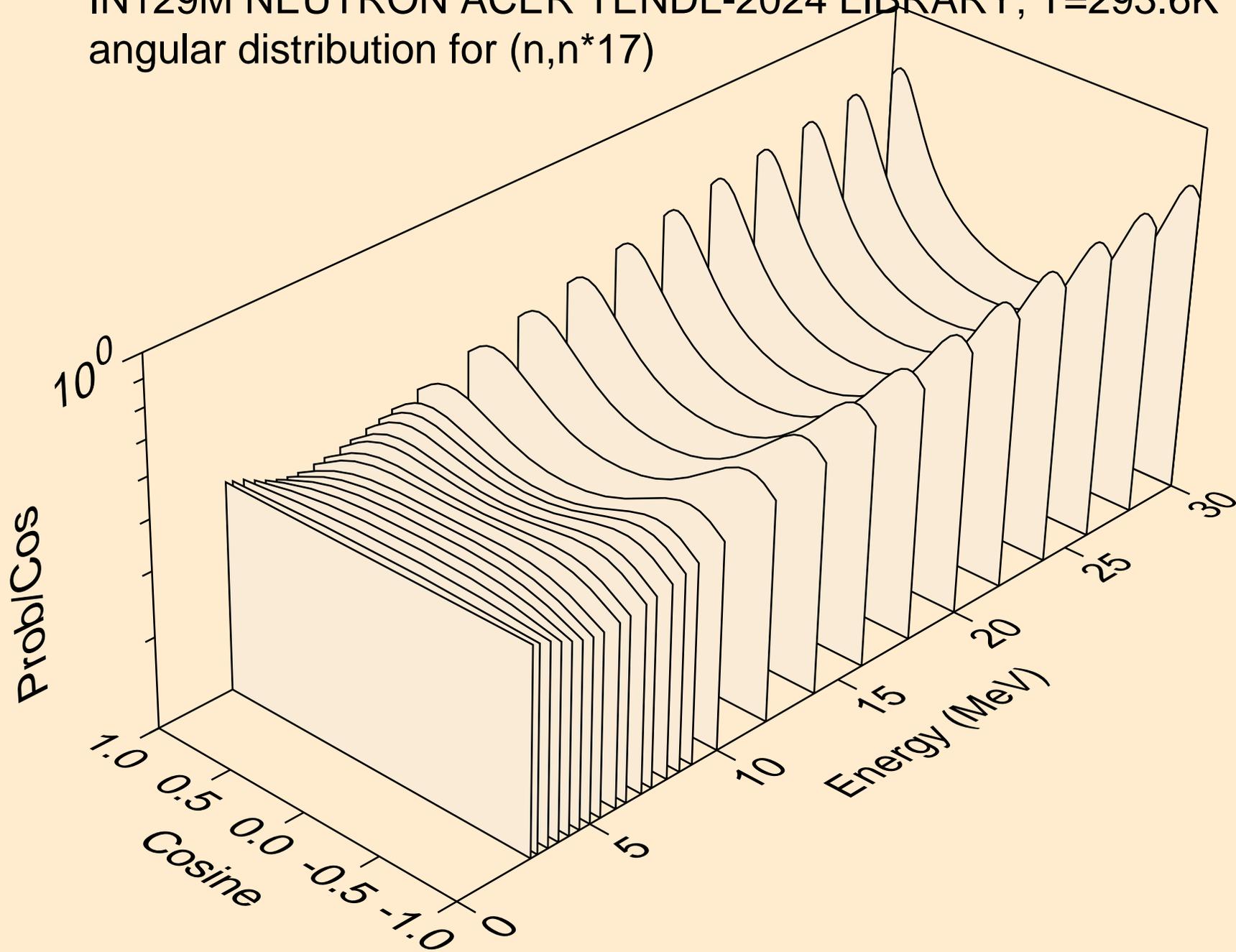angular distribution for (n,n*14)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
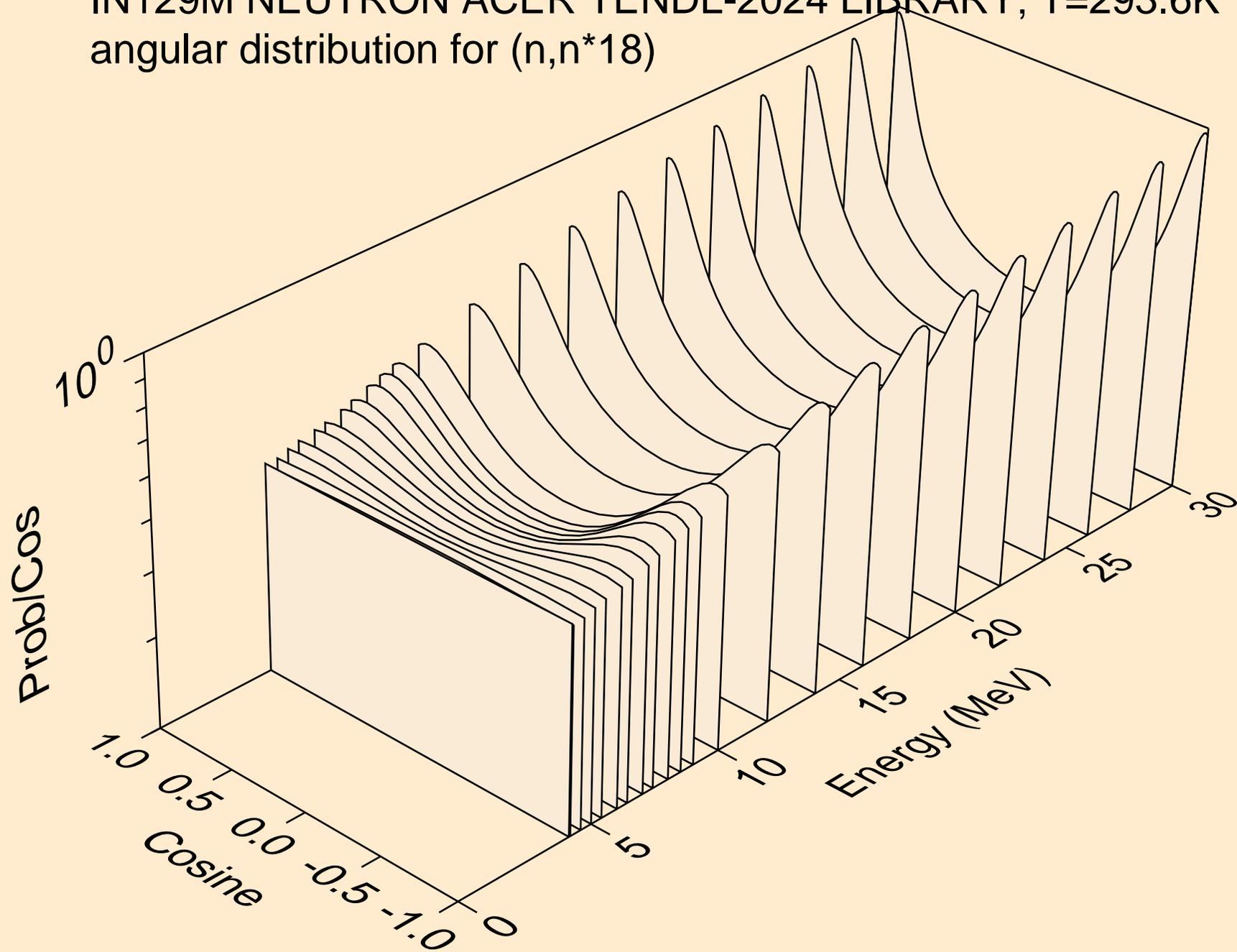angular distribution for (n,n*15)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
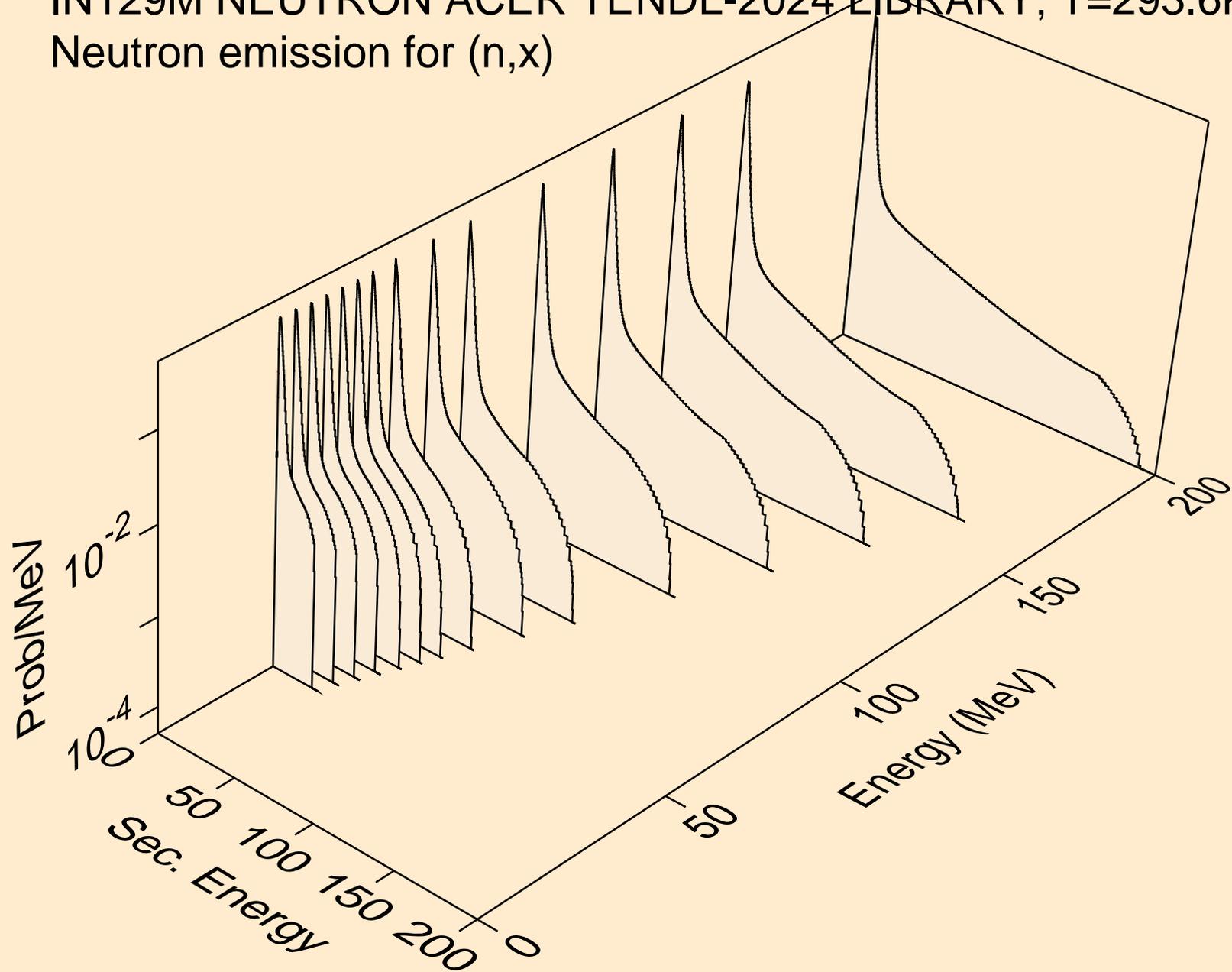angular distribution for (n,n*16)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
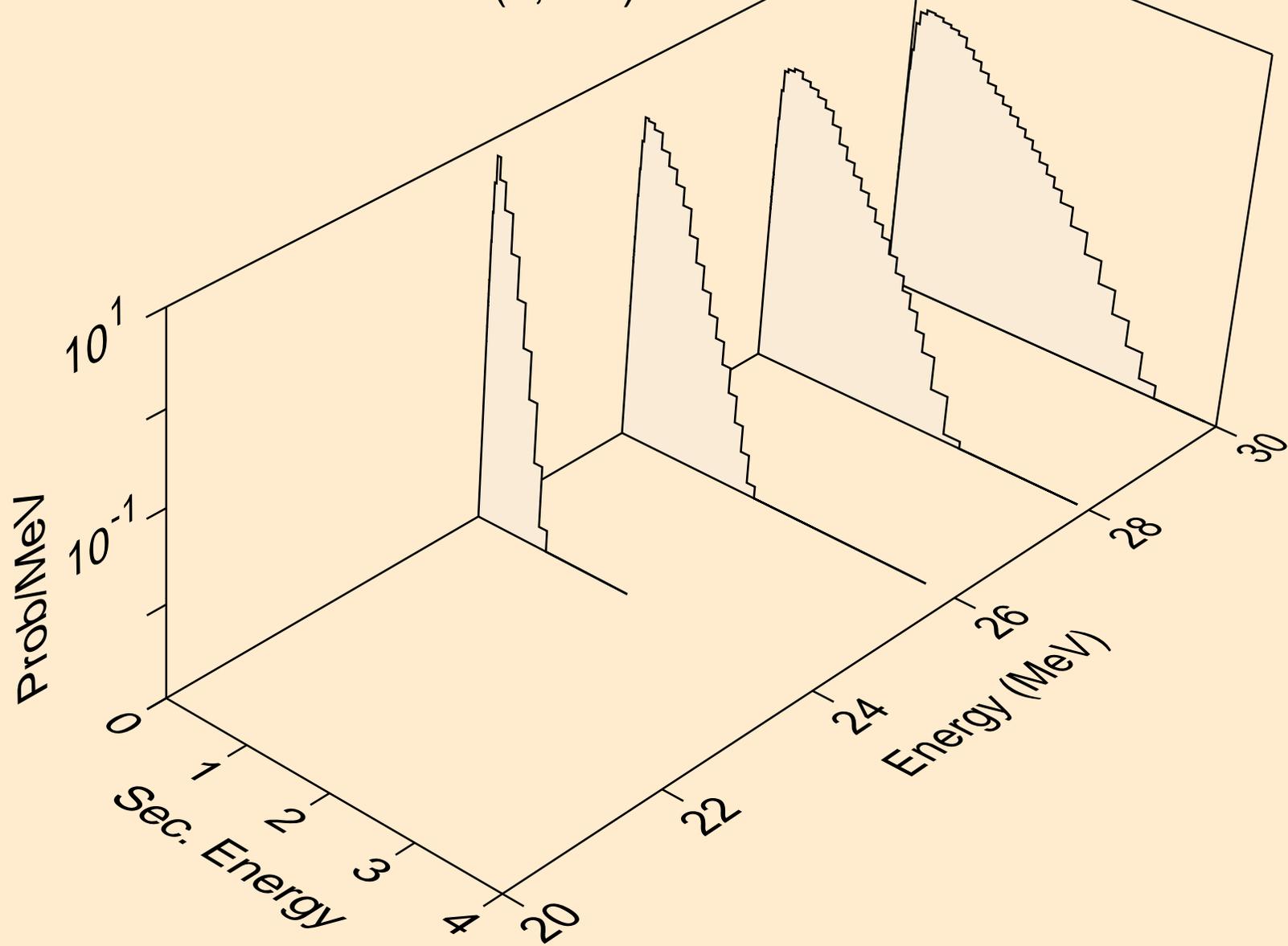angular distribution for (n,n*17)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
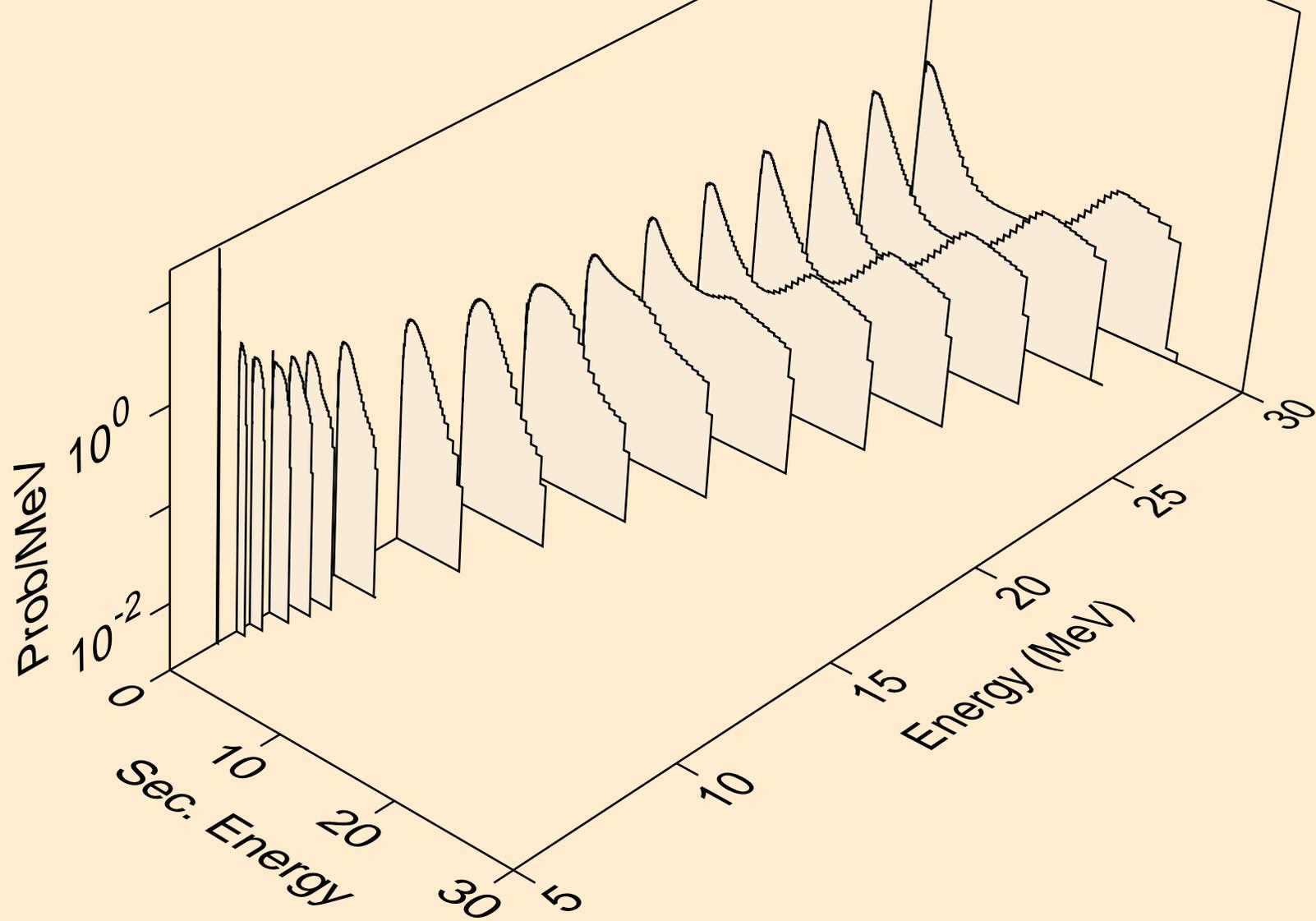angular distribution for (n,n*18)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
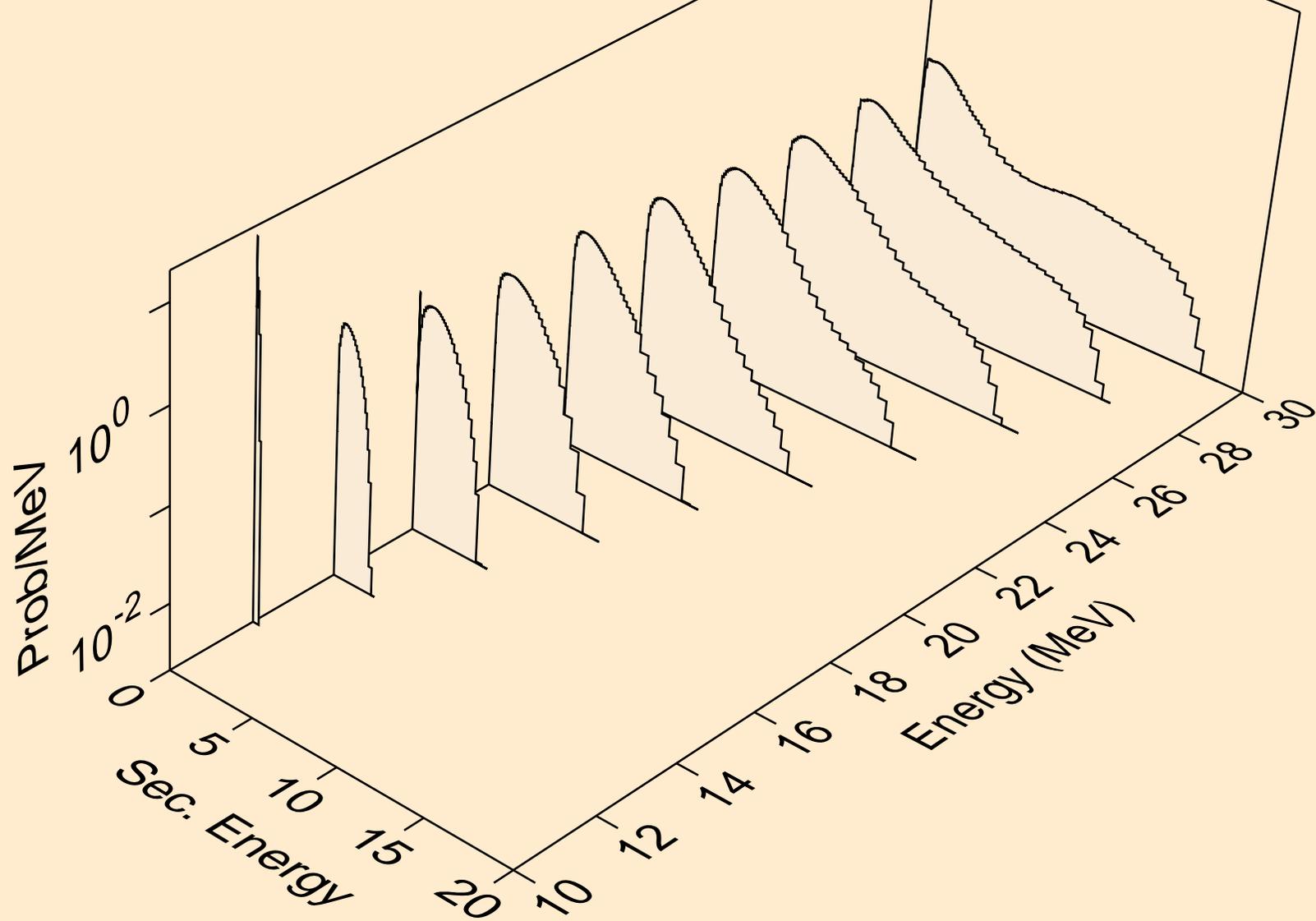Neutron emission for (n,x)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
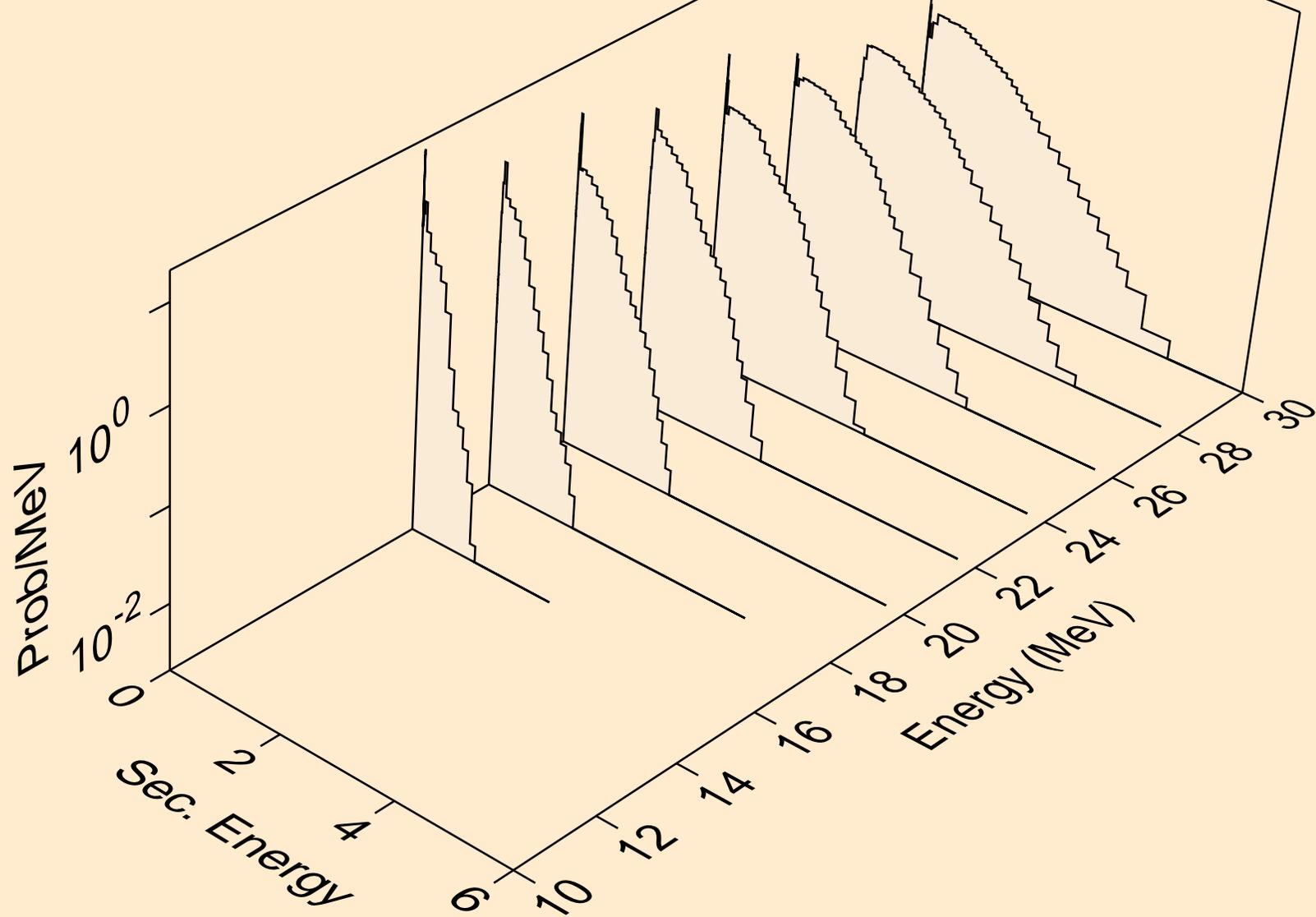Neutron emission for (n,2nd)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
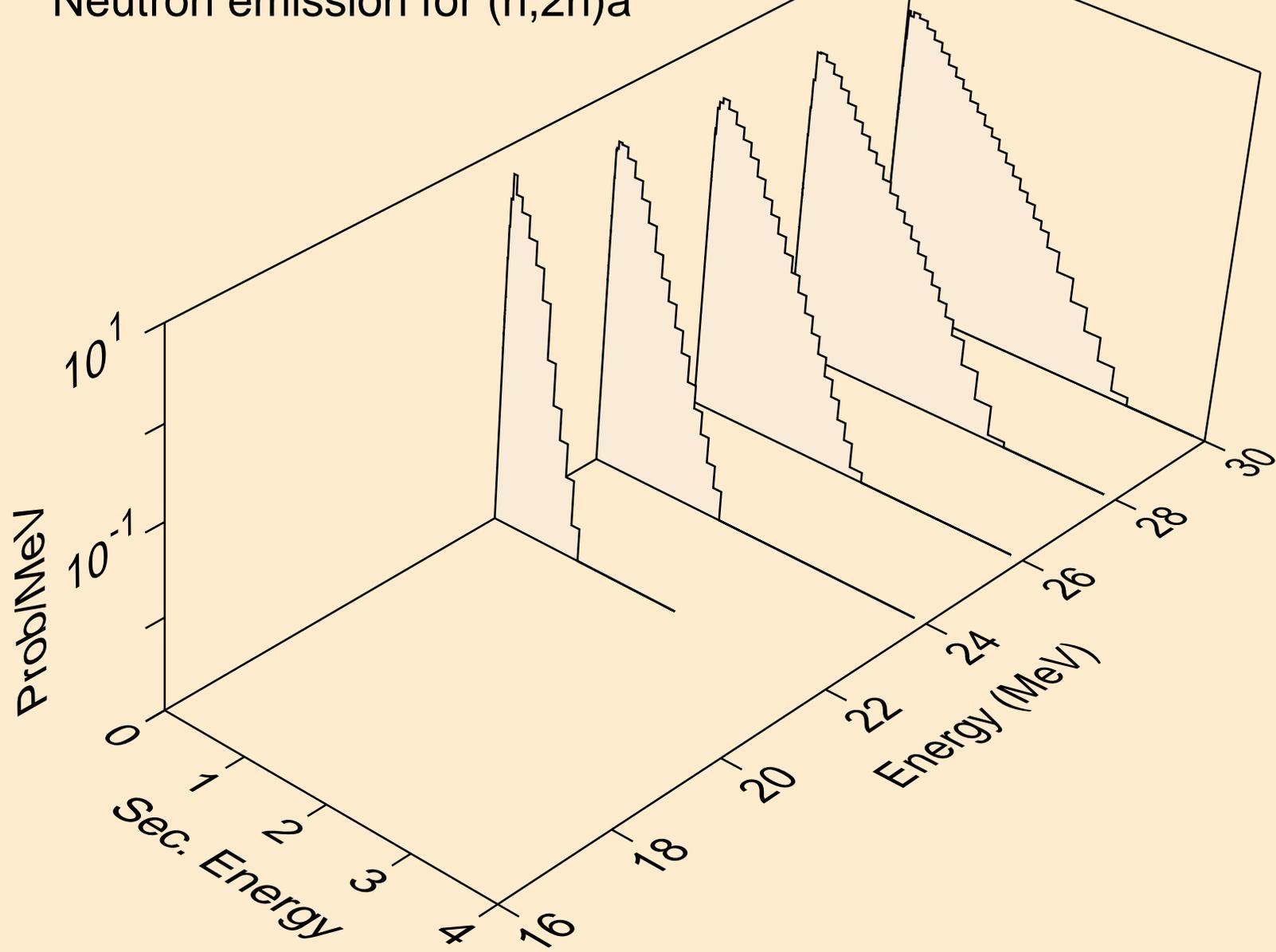Neutron emission for (n,2n)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
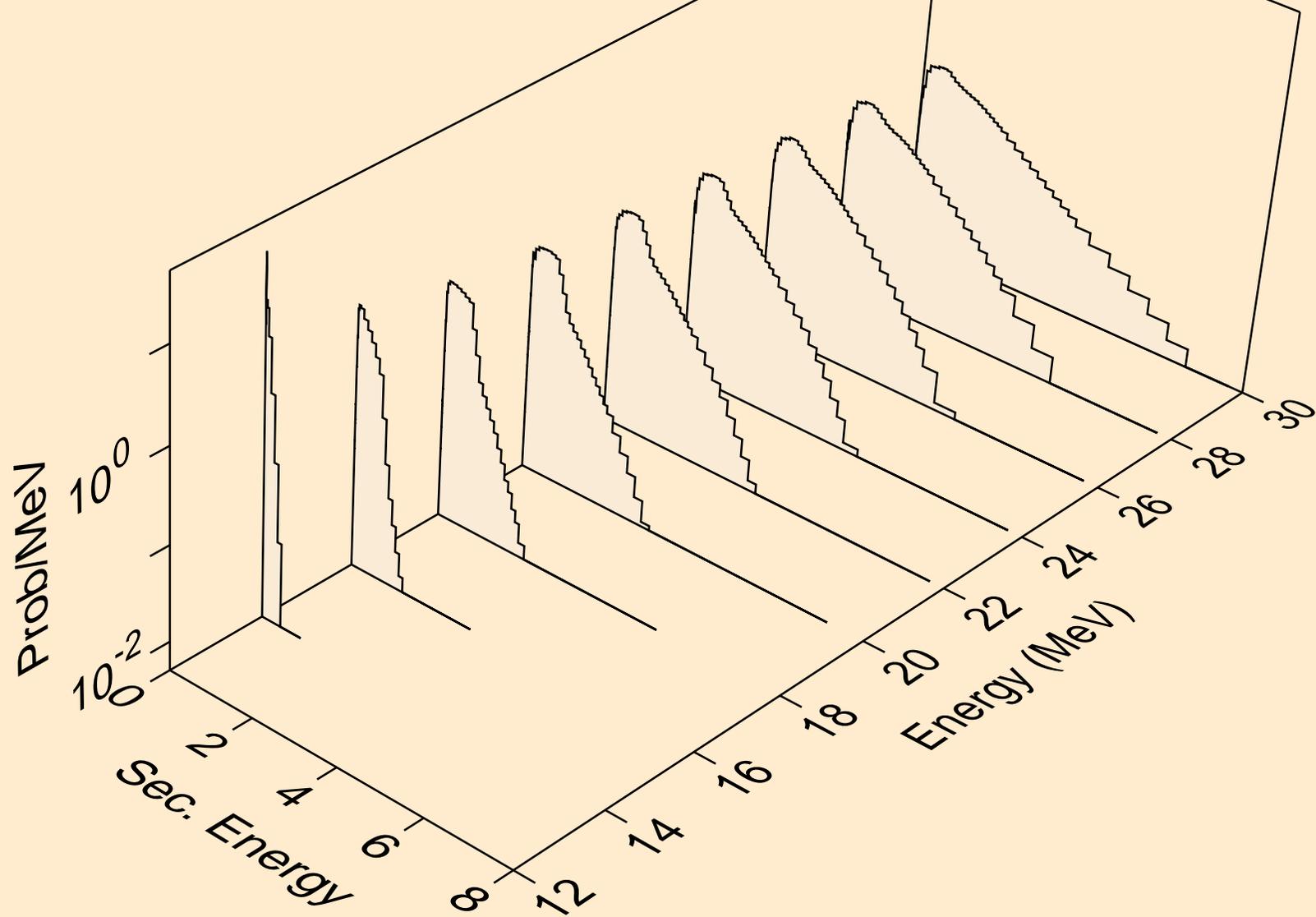Neutron emission for (n,3n)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
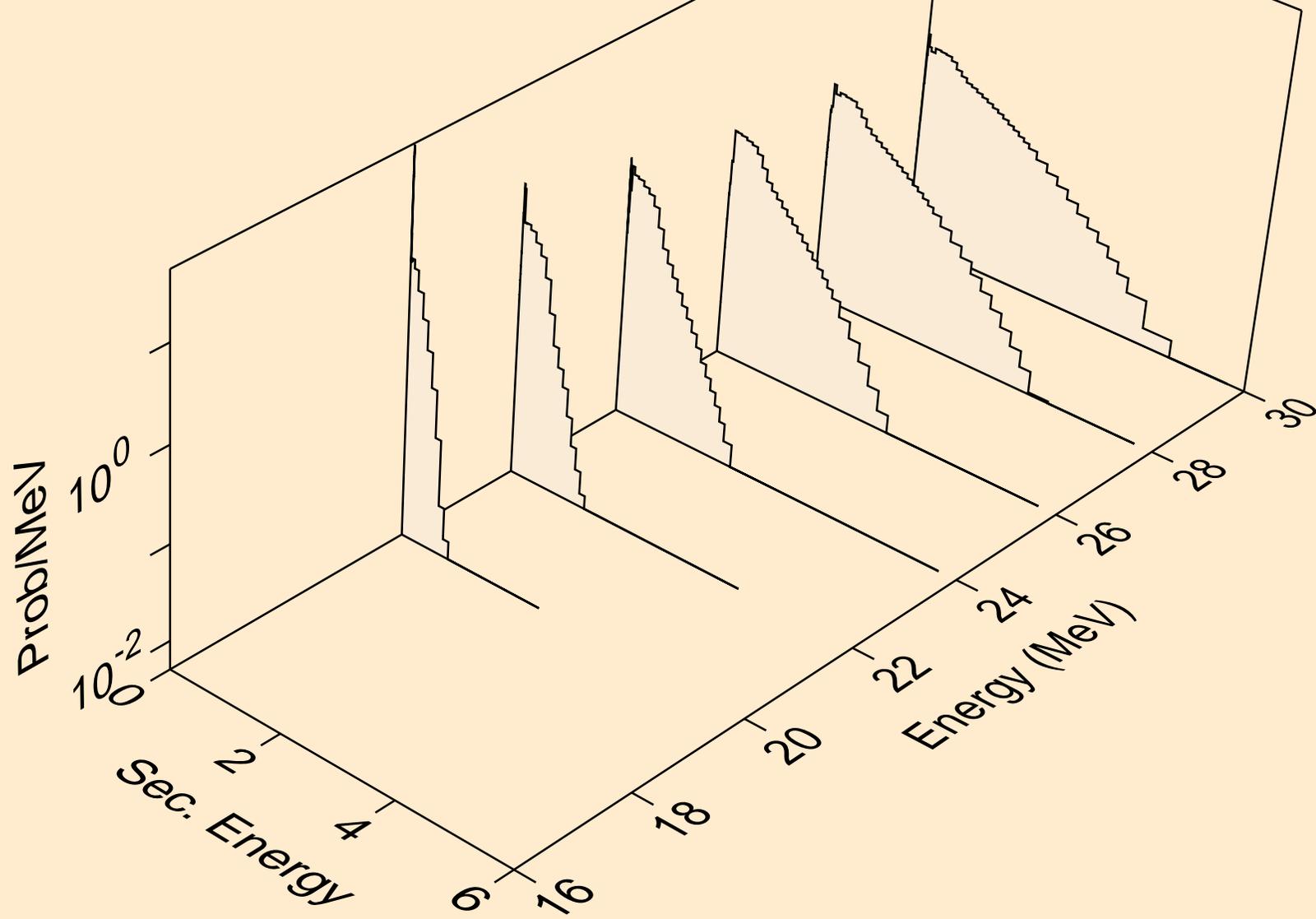Neutron emission for (n,n*)a

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
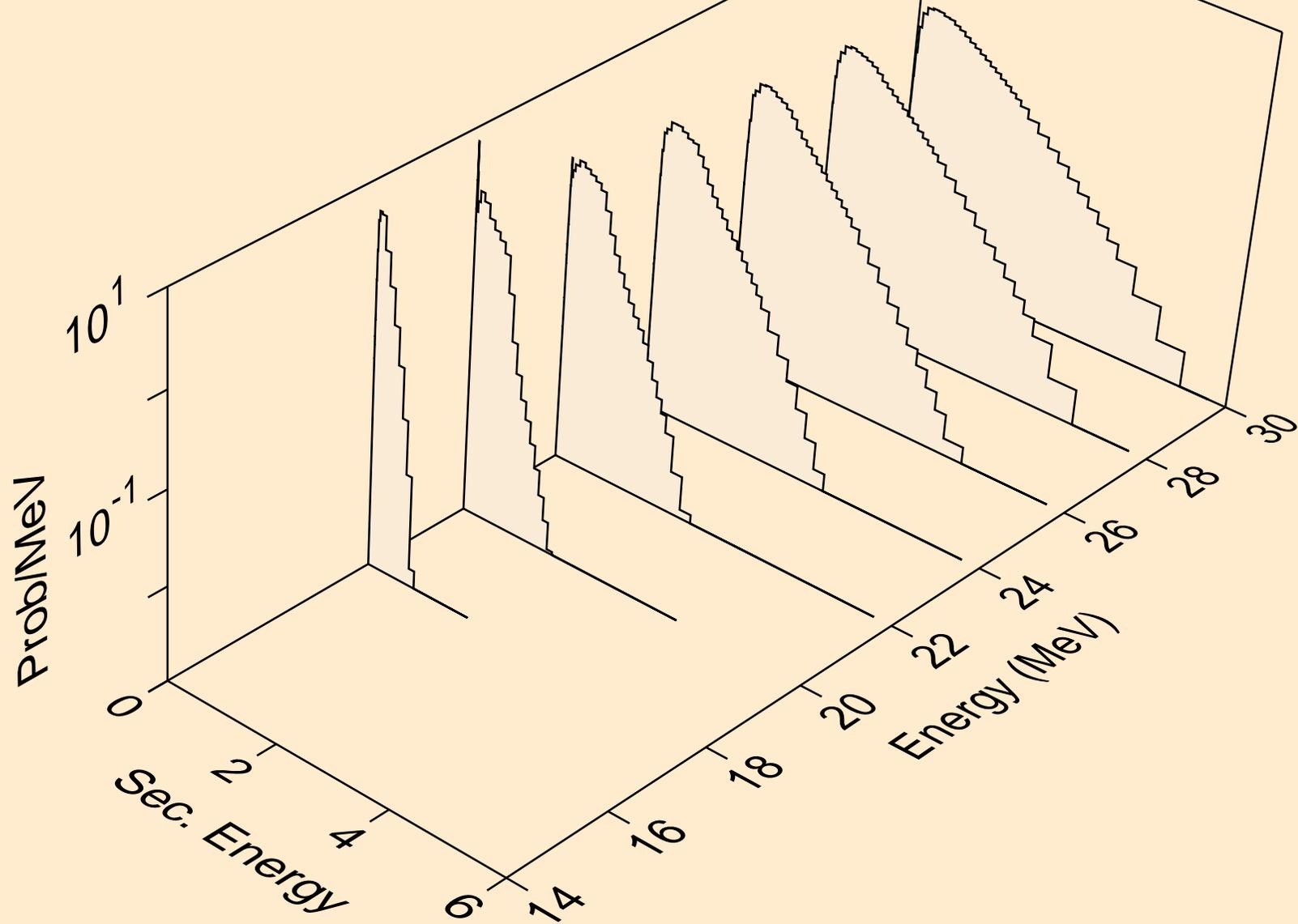Neutron emission for (n,2n)a

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
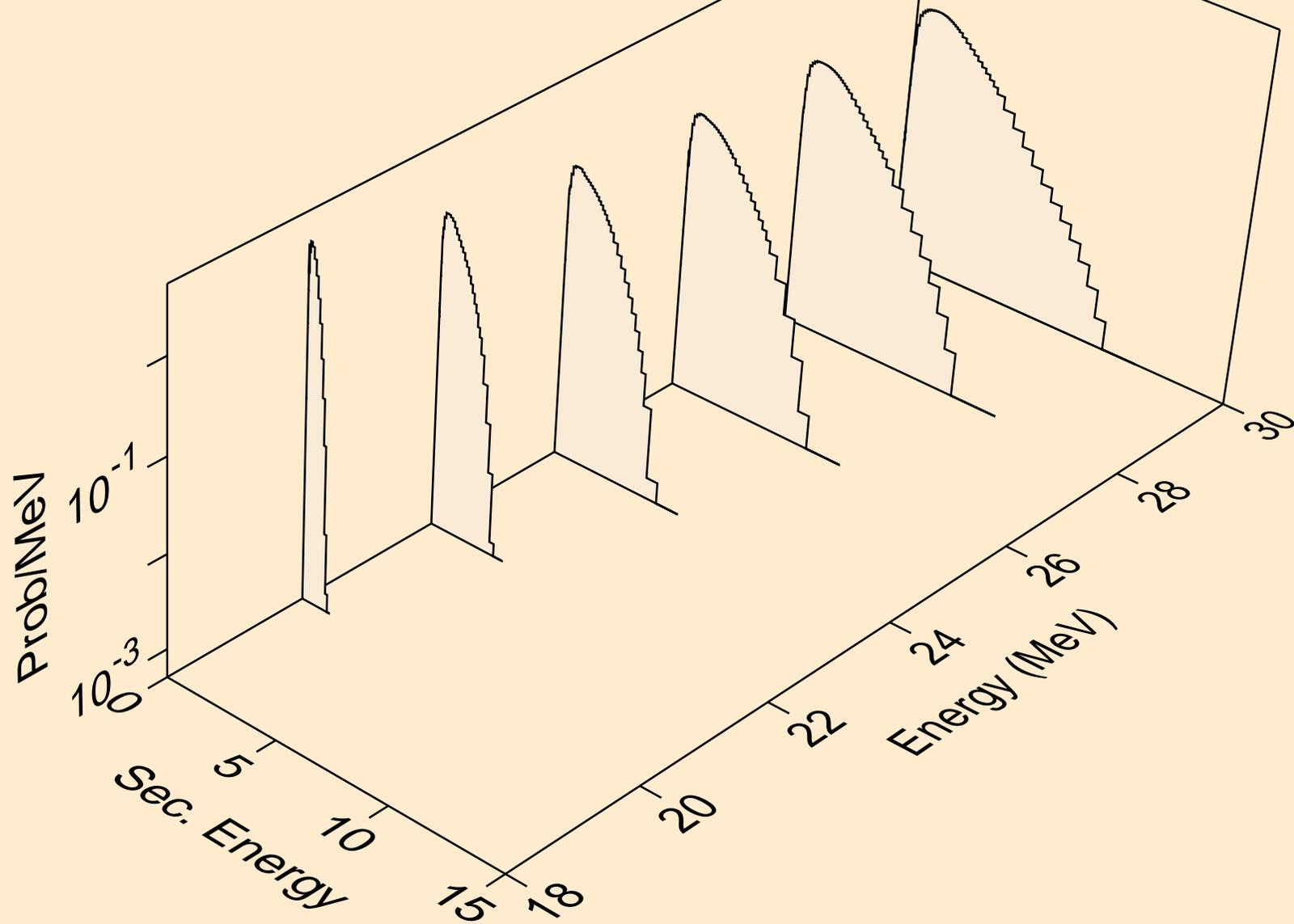Neutron emission for (n,n*)p

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
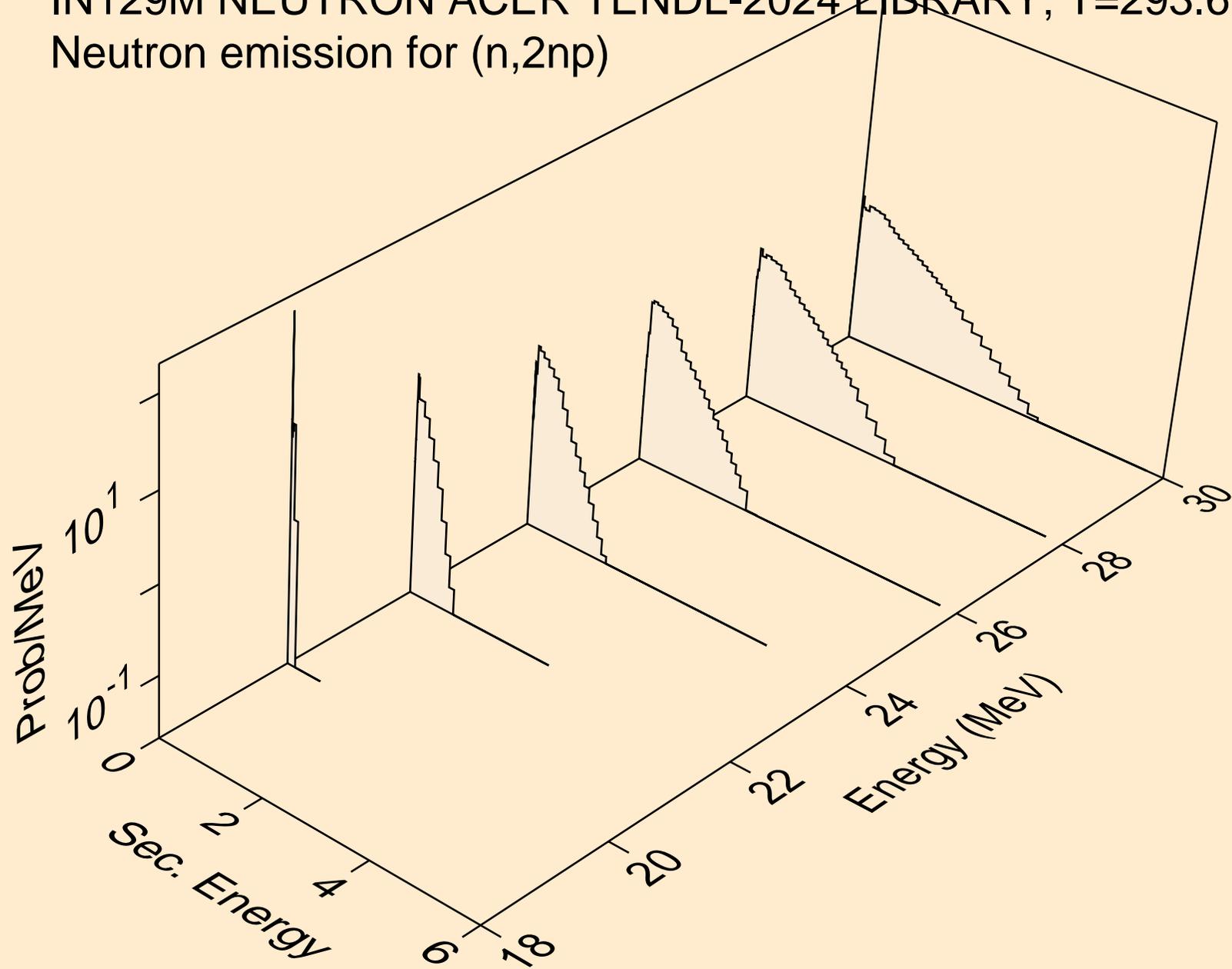Neutron emission for (n,n*)d

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
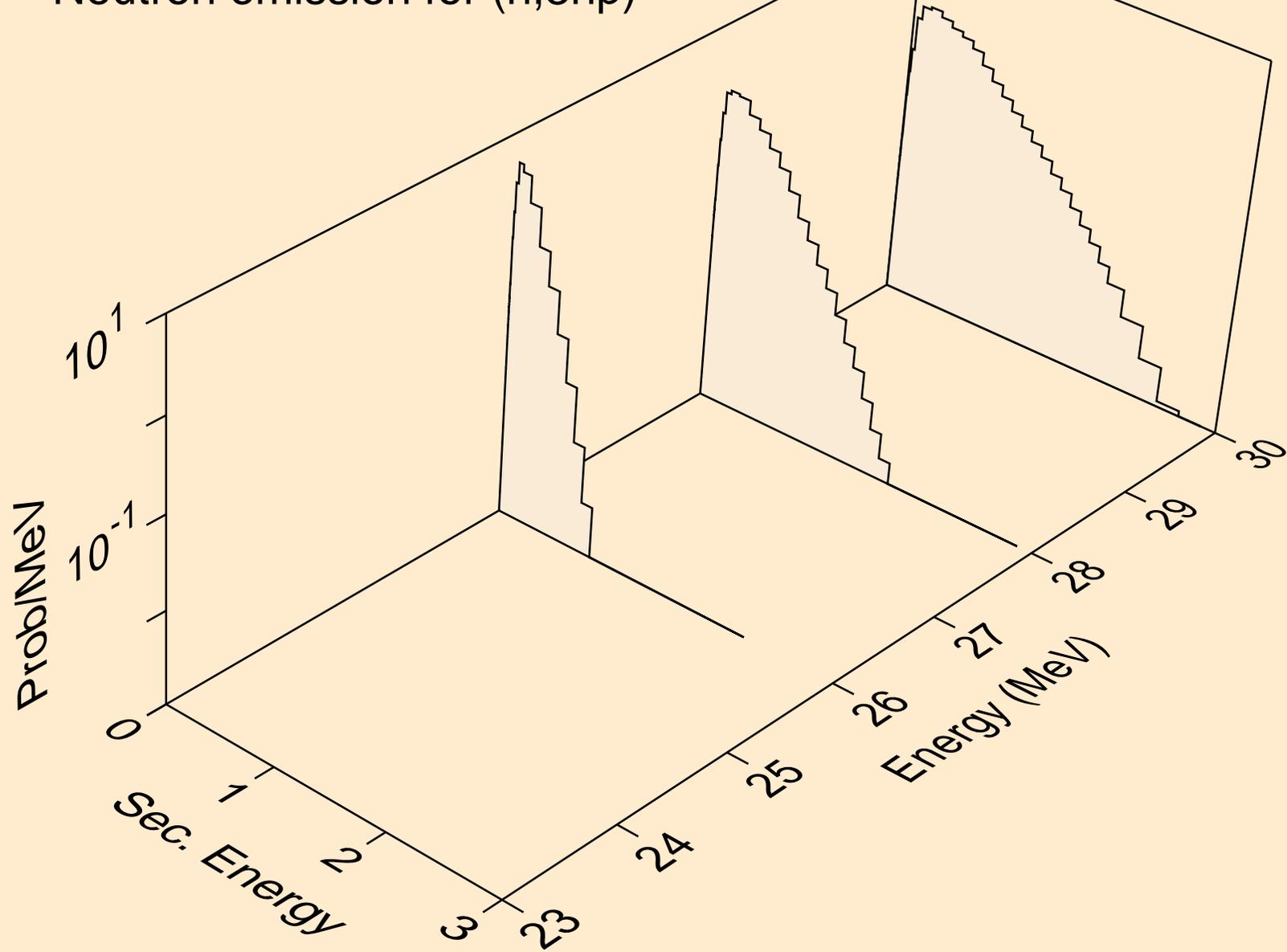Neutron emission for (n,n*)t

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
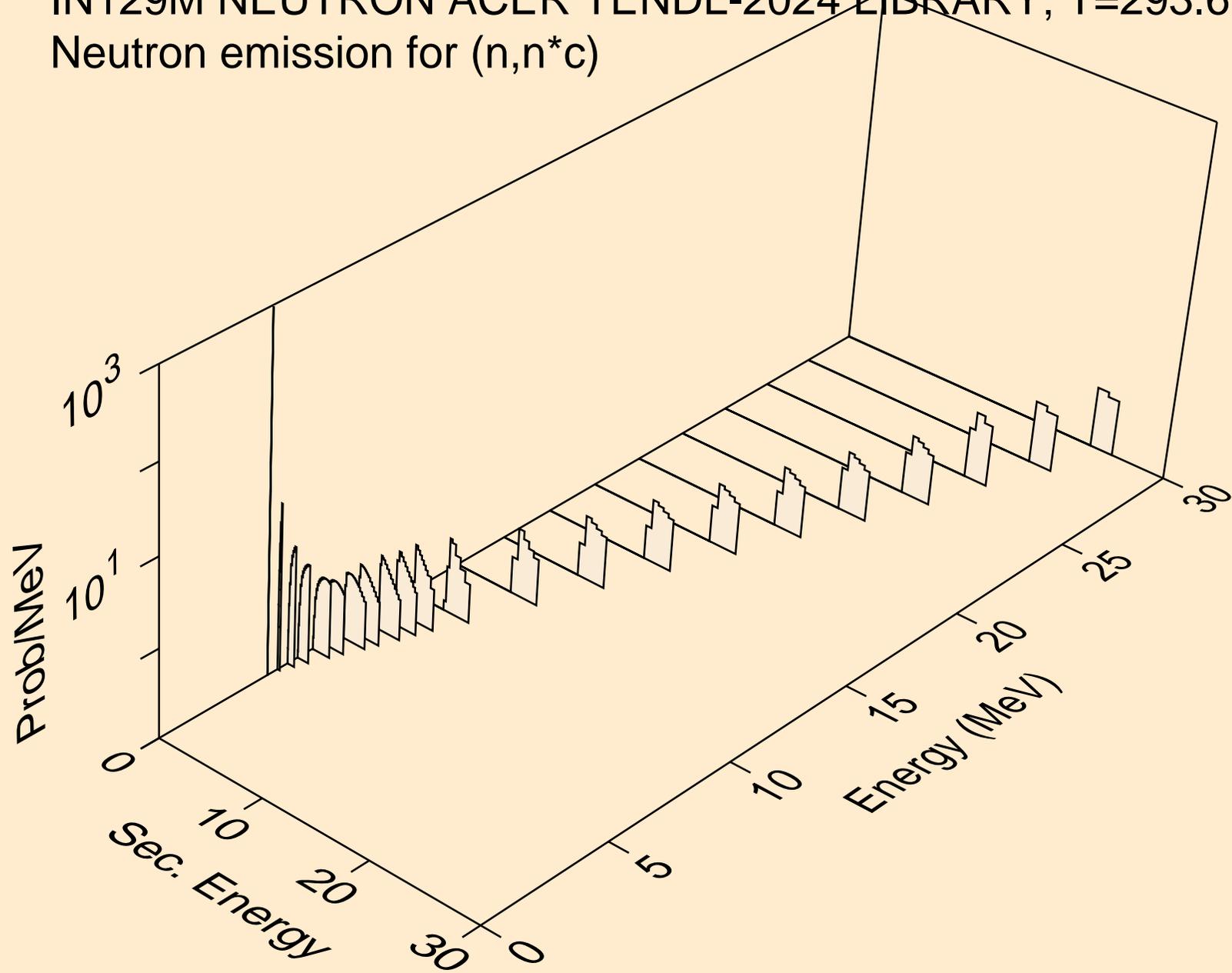Neutron emission for (n,4n)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
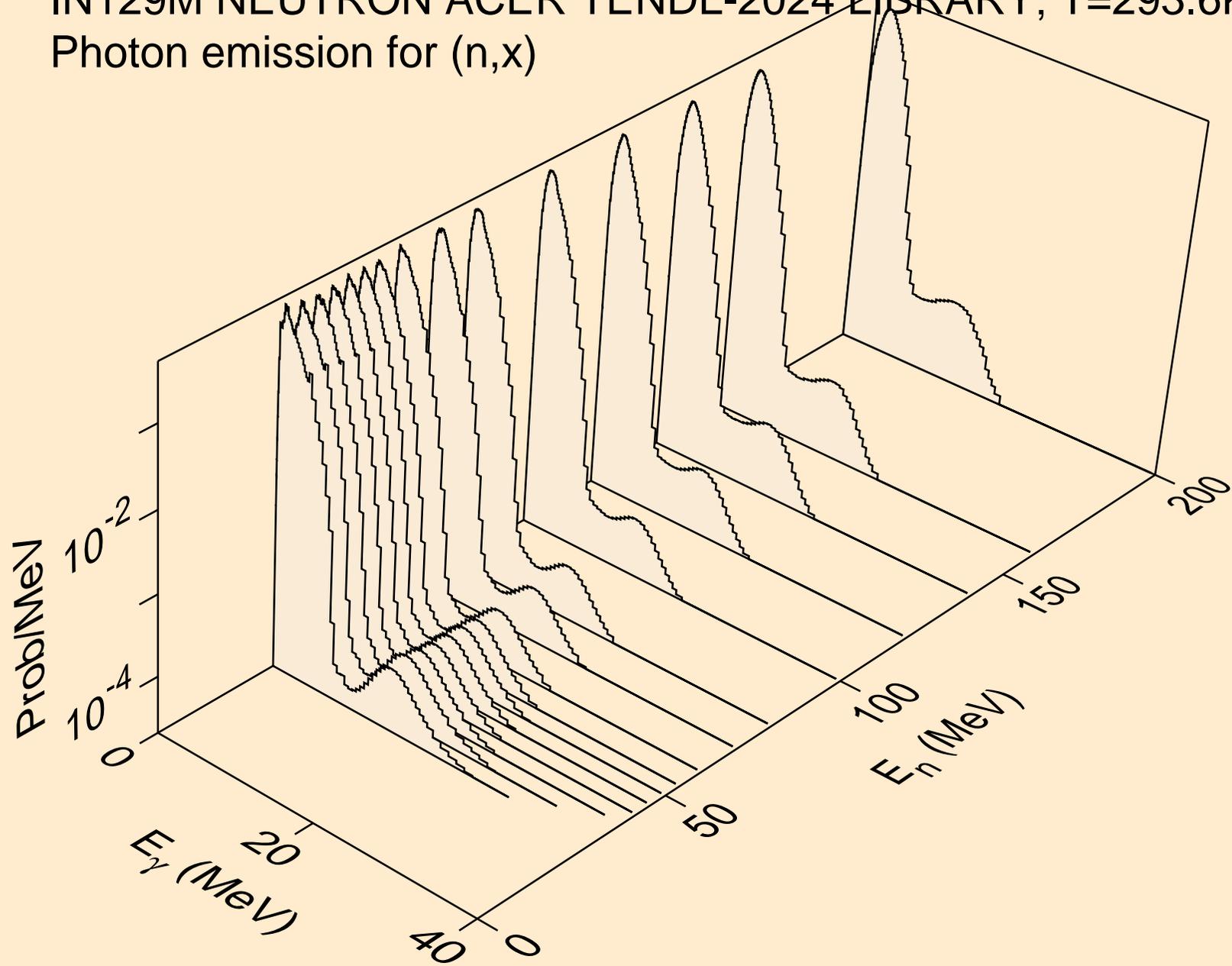Neutron emission for (n,2np)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
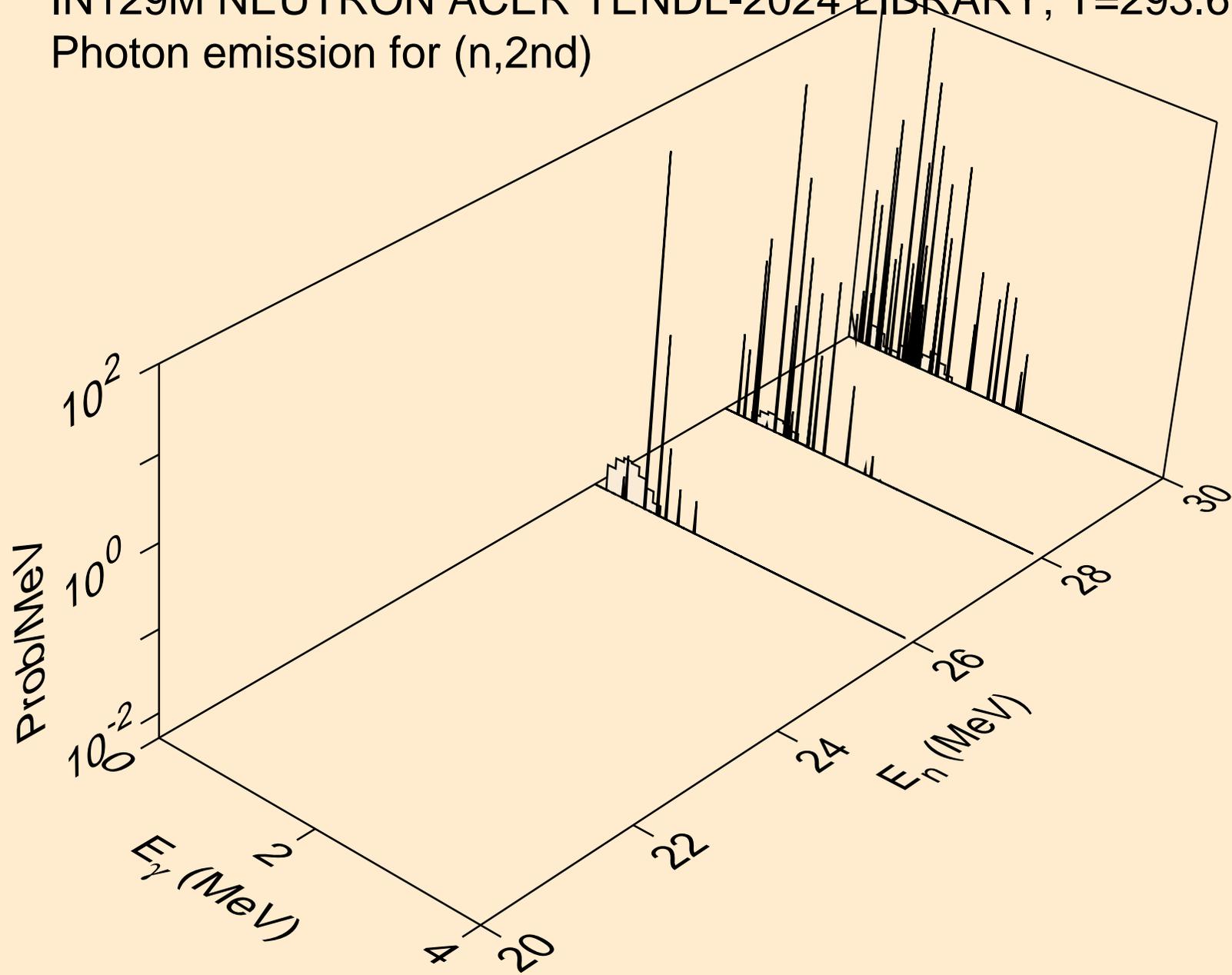Neutron emission for (n,3np)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
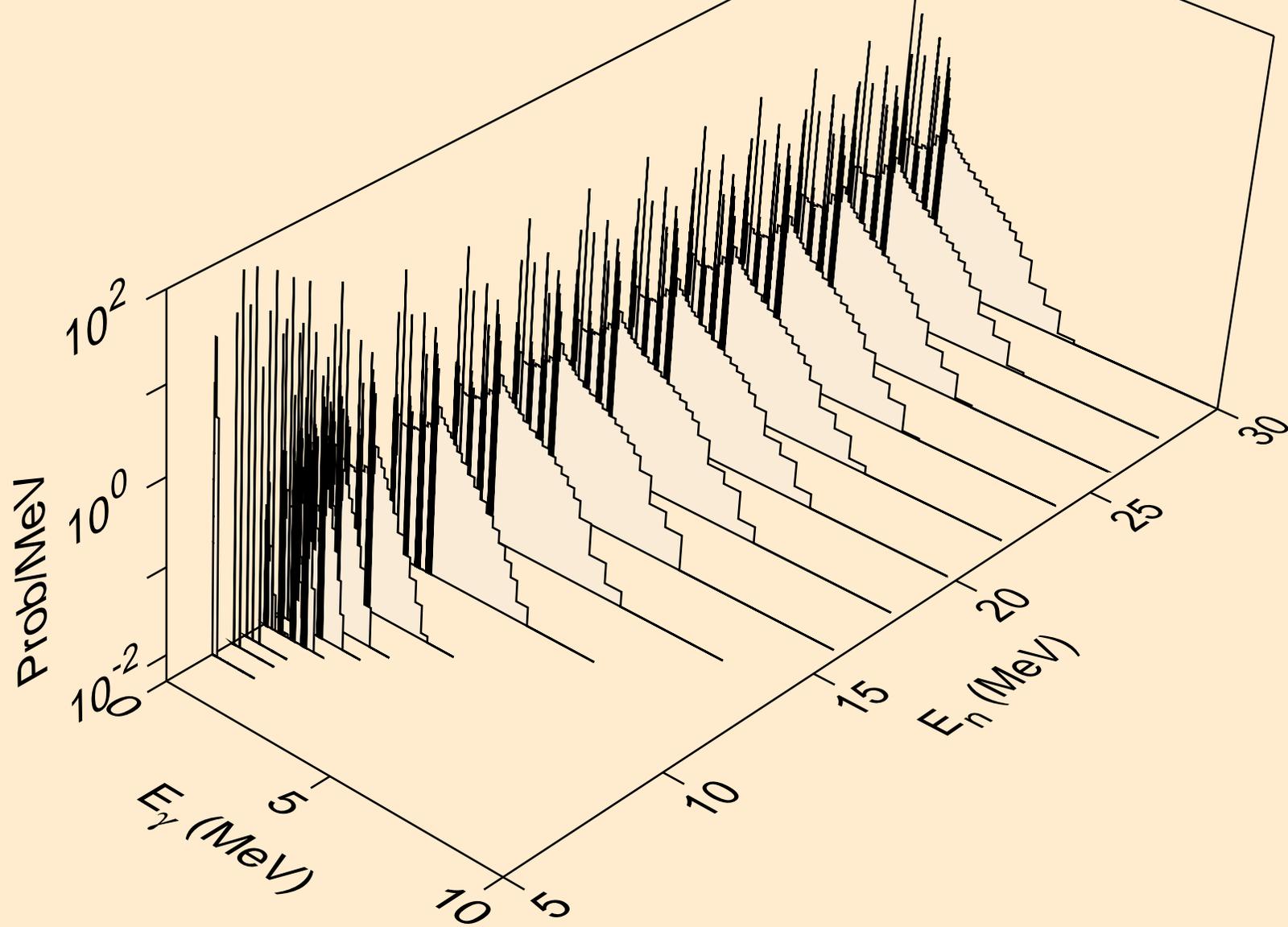Neutron emission for (n,n*c)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
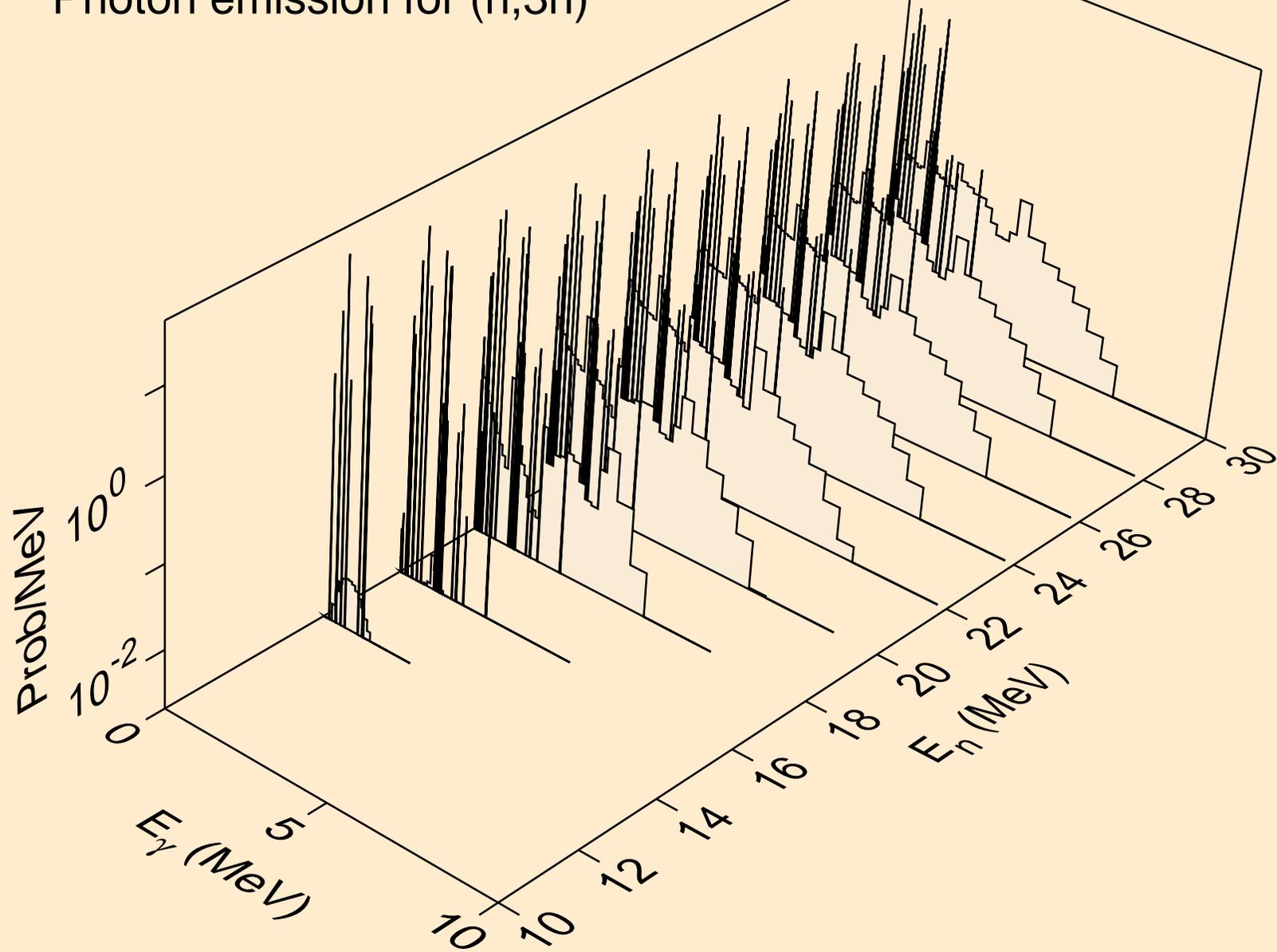Photon emission for (n,x)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
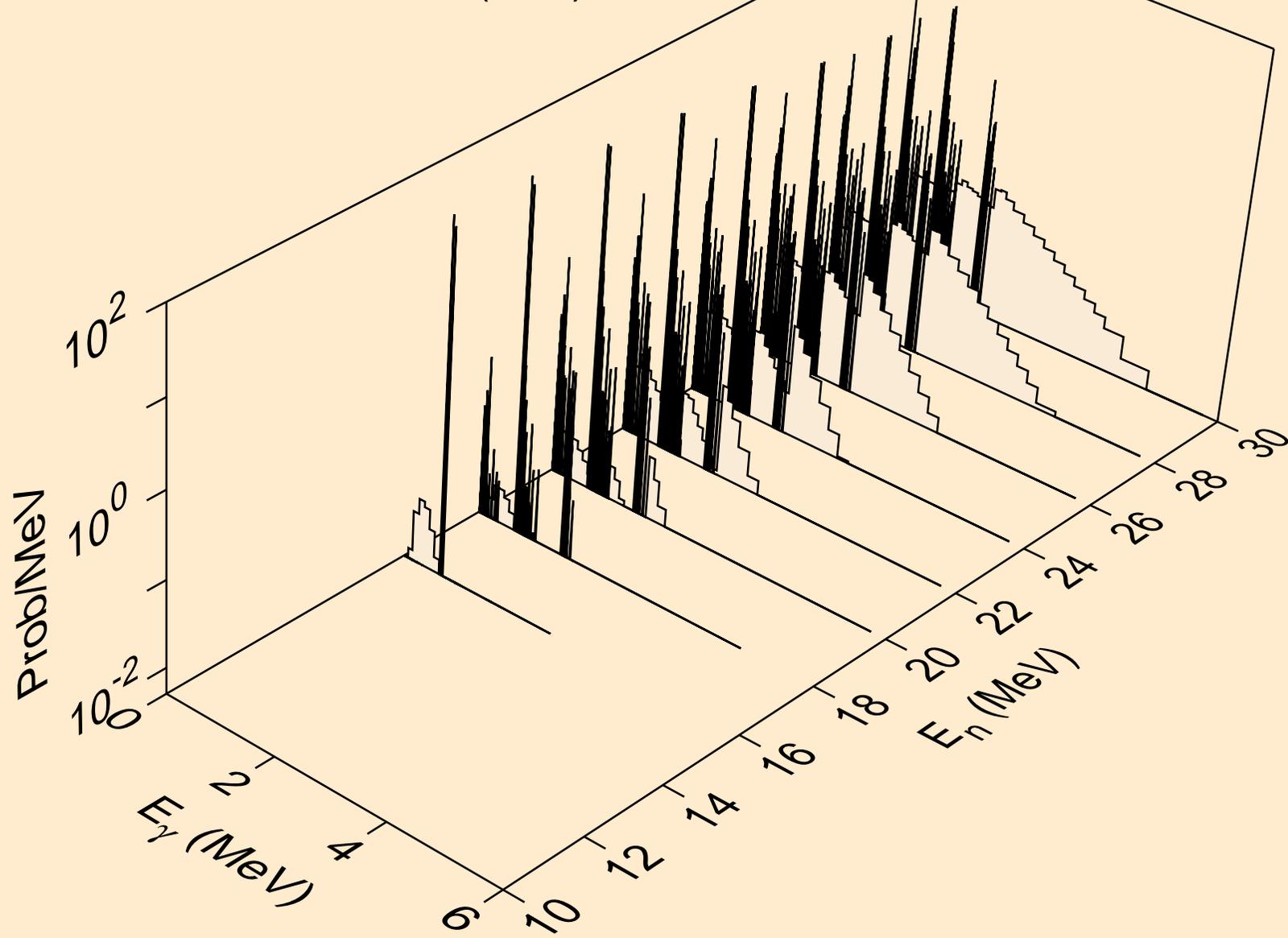Photon emission for (n,2nd)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
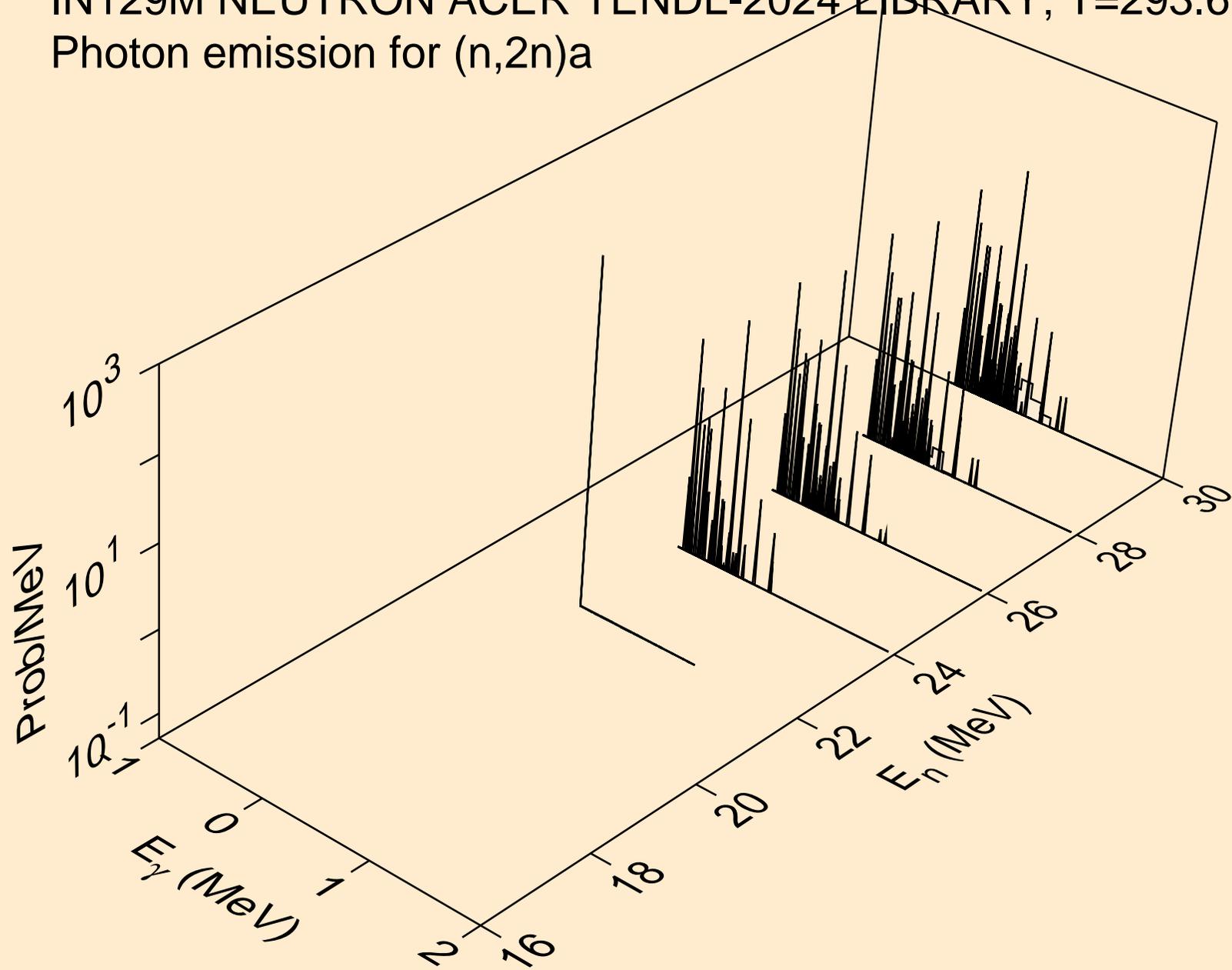Photon emission for (n,2n)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
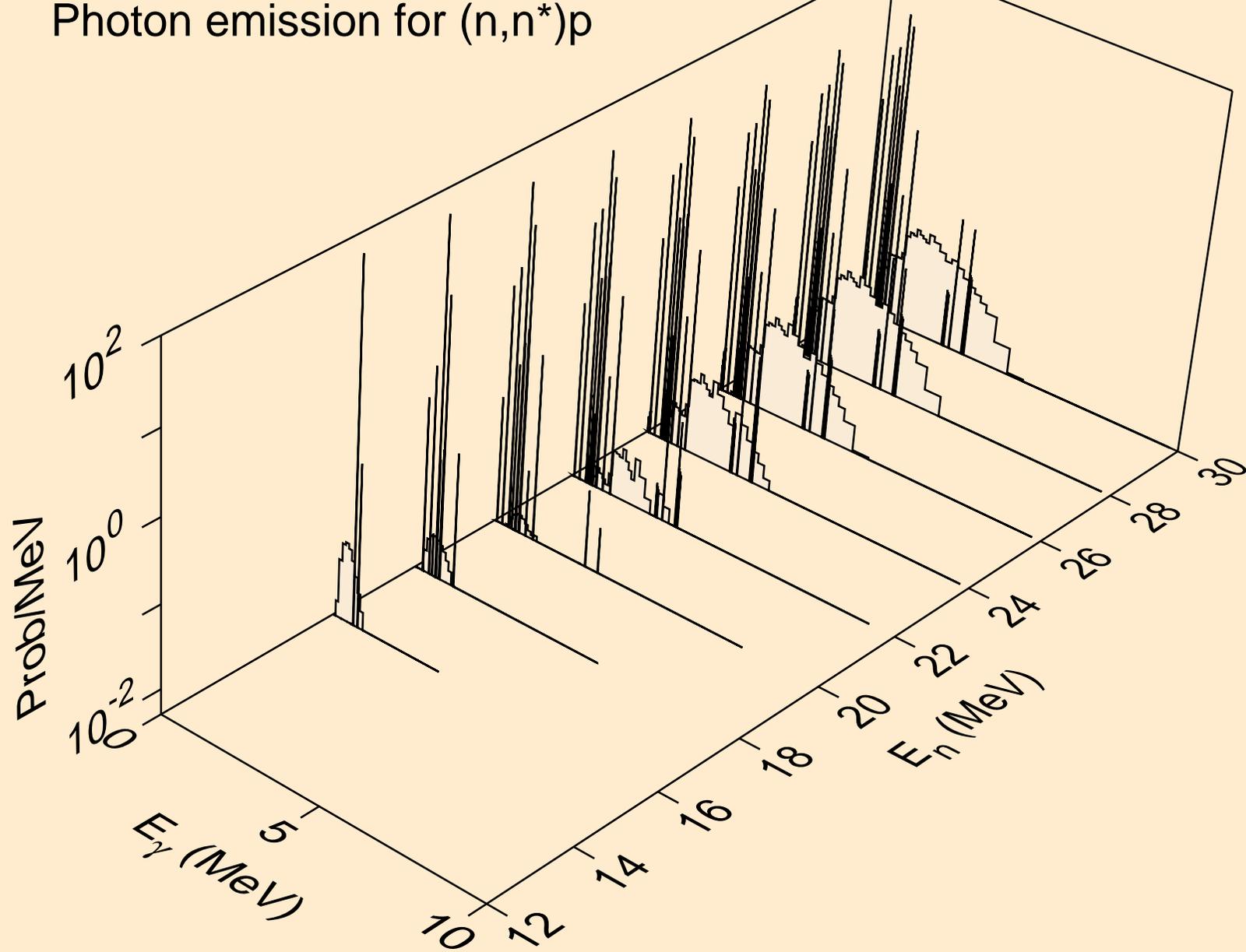Photon emission for (n,3n)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
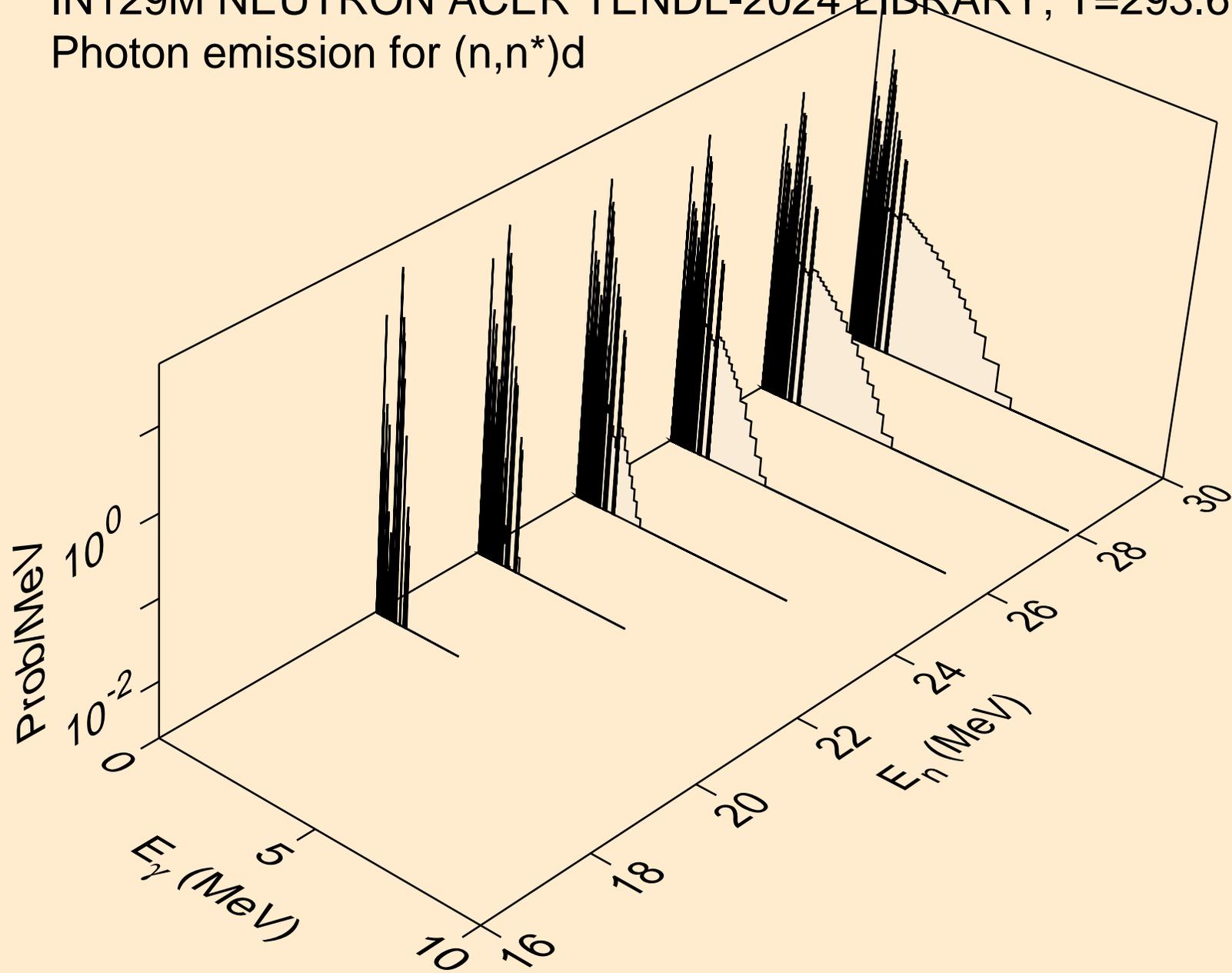Photon emission for (n,n*)a

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
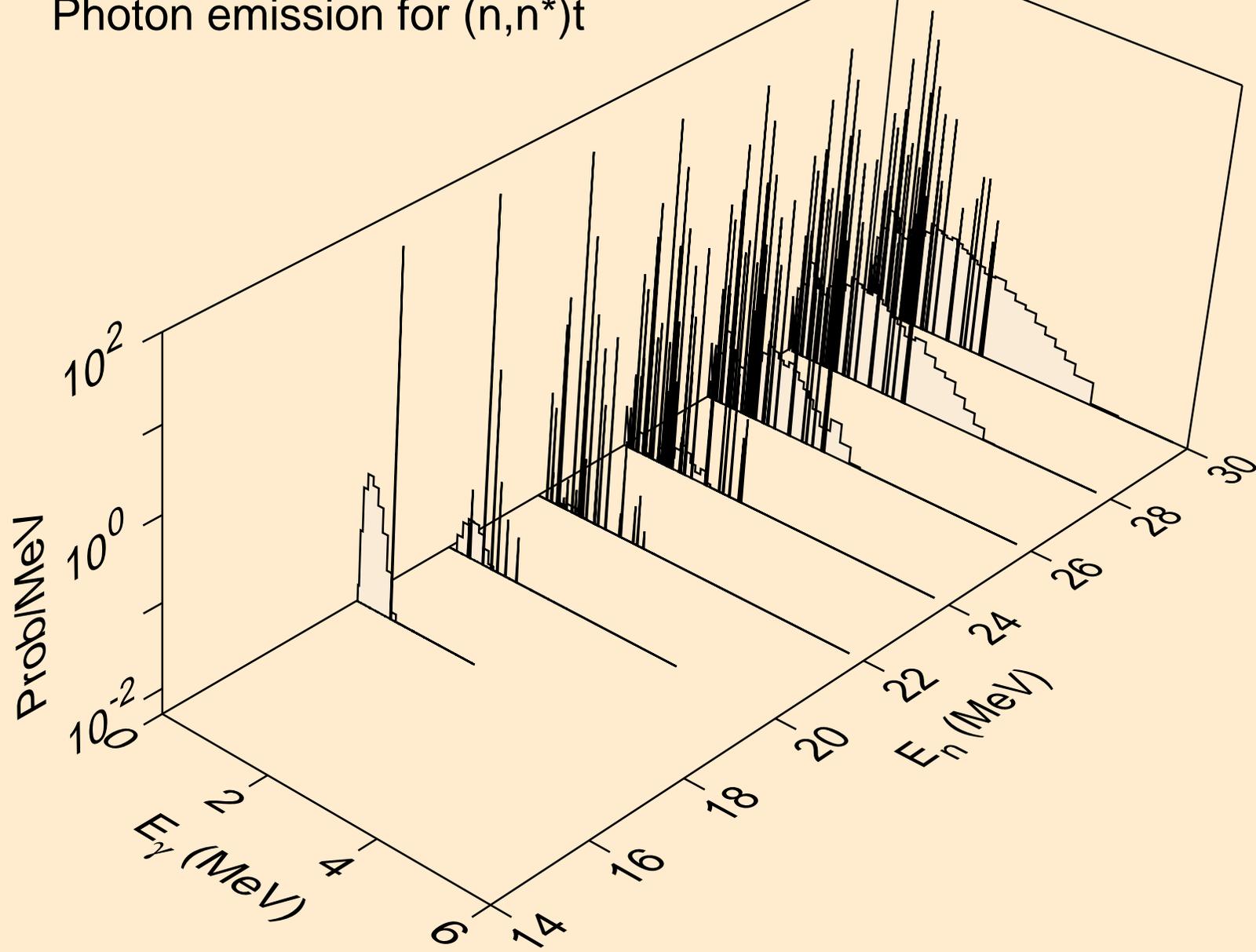Photon emission for (n,2n)a

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
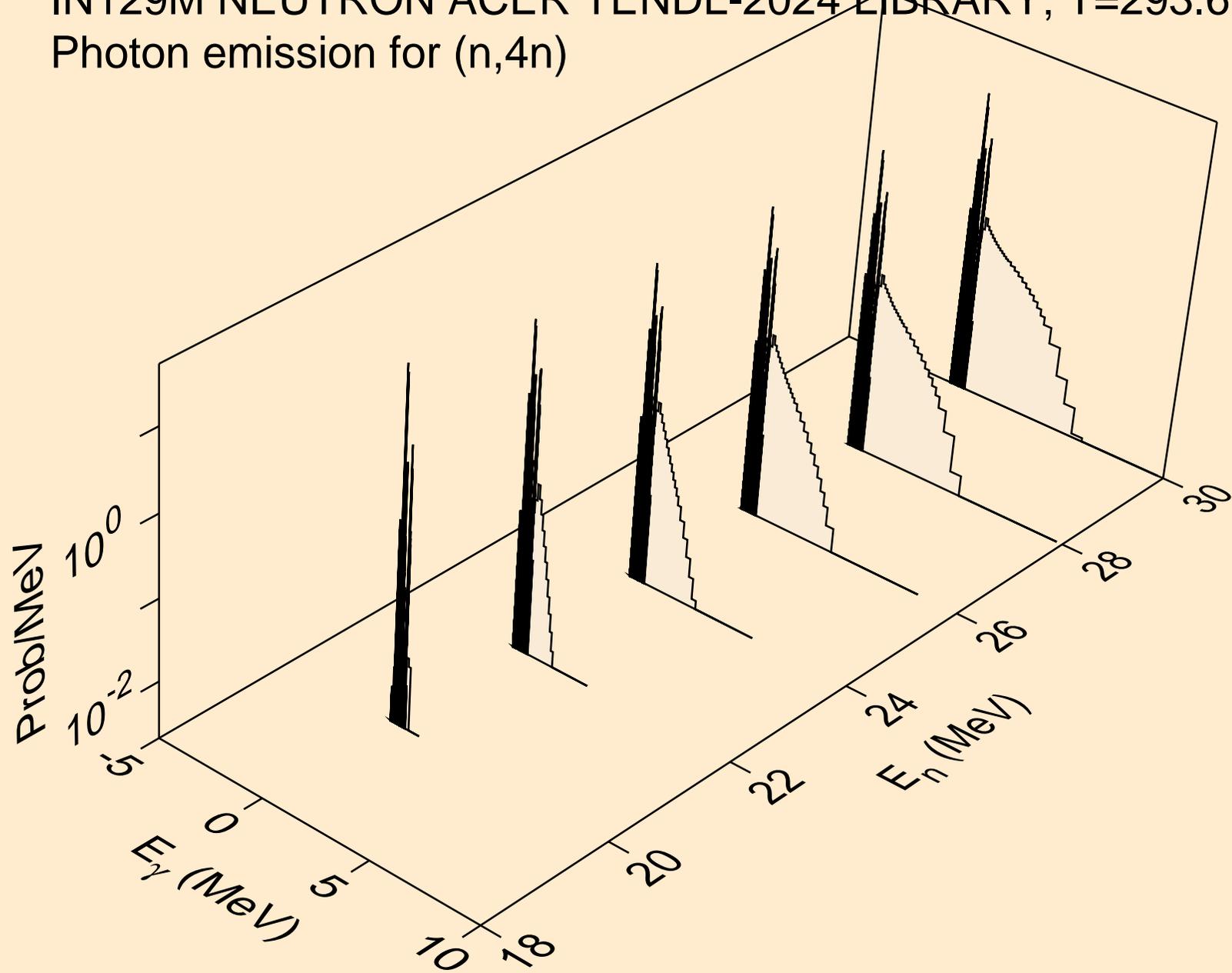Photon emission for (n,n*)p

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
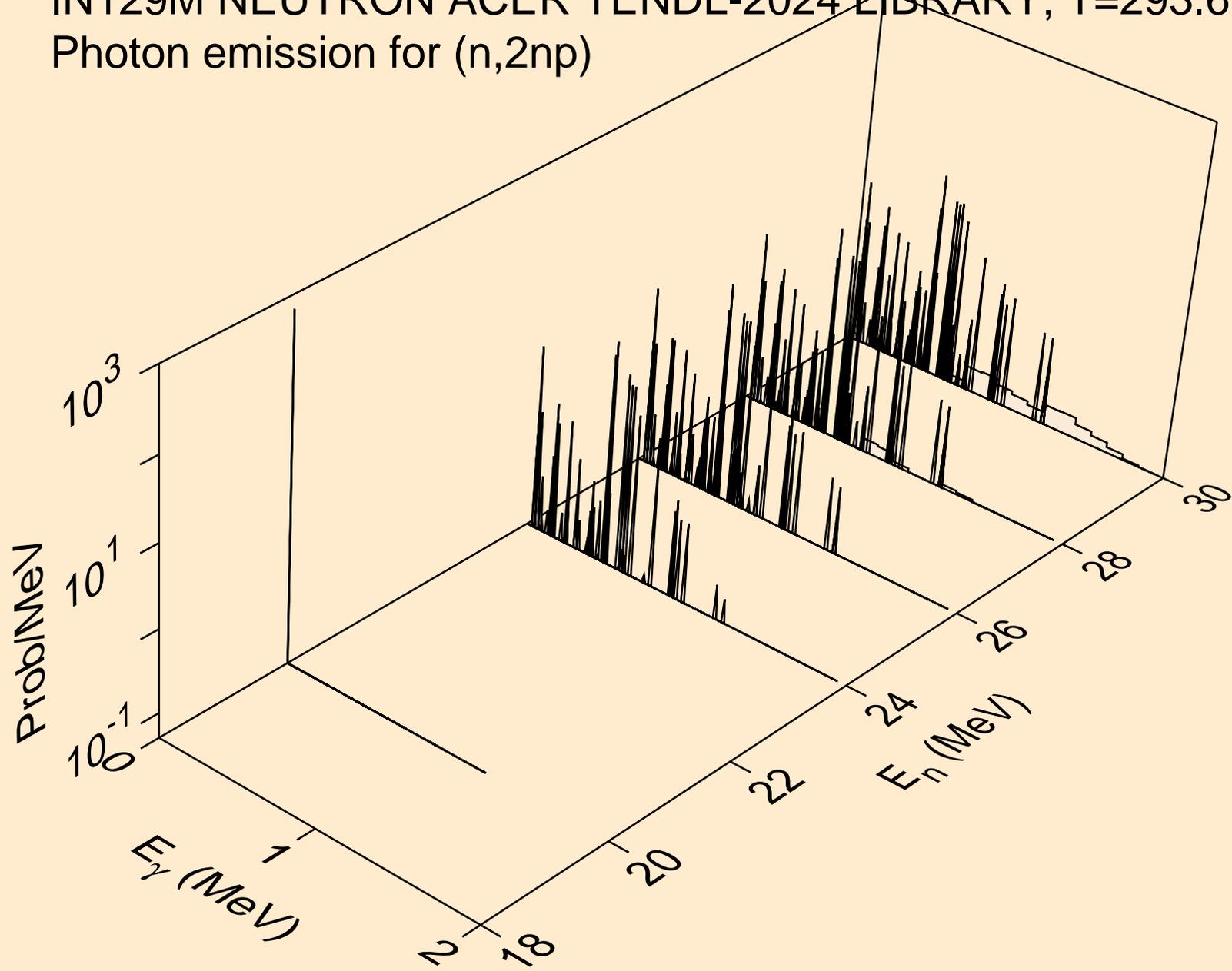Photon emission for (n,n*)d

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
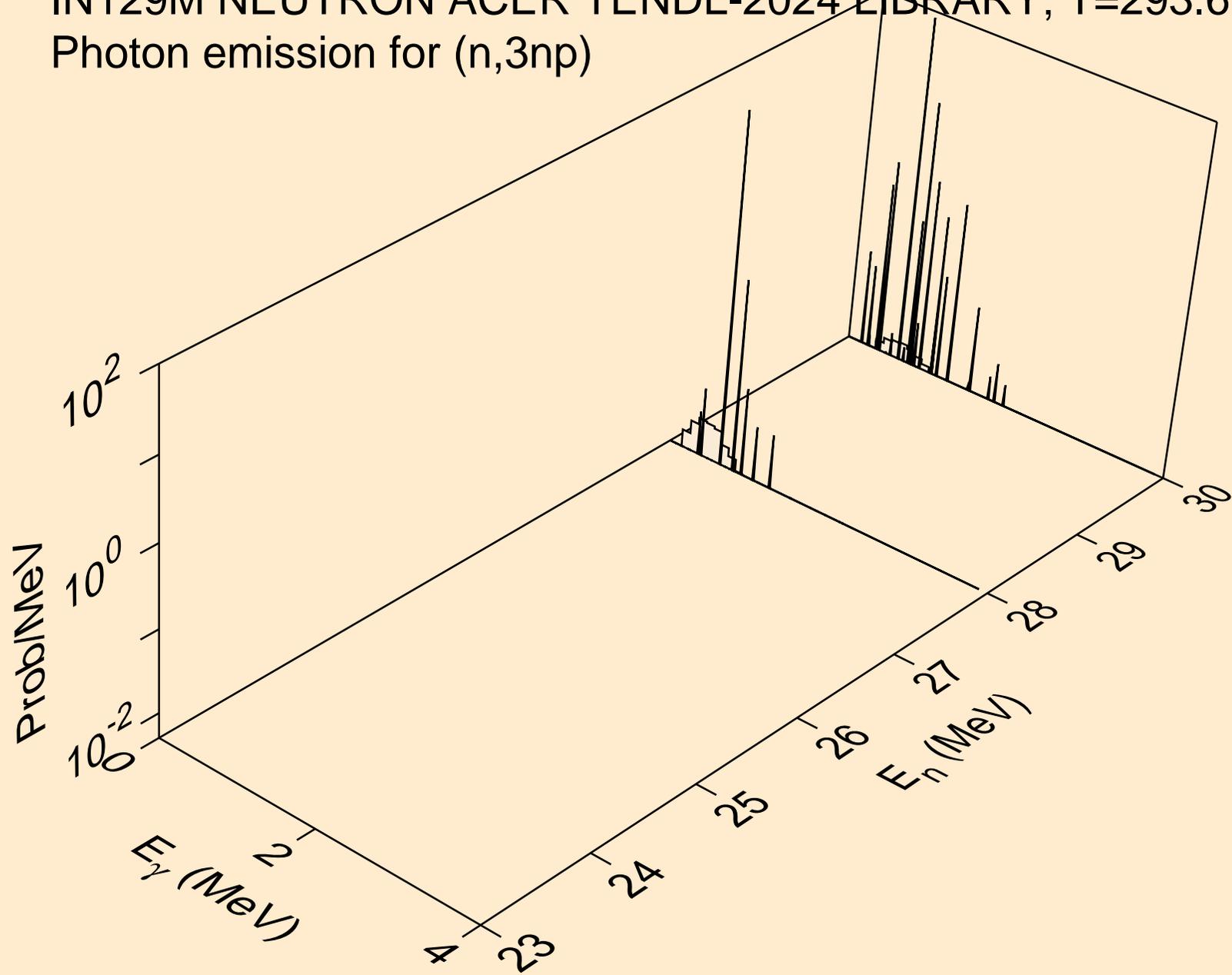Photon emission for (n,n*)t

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
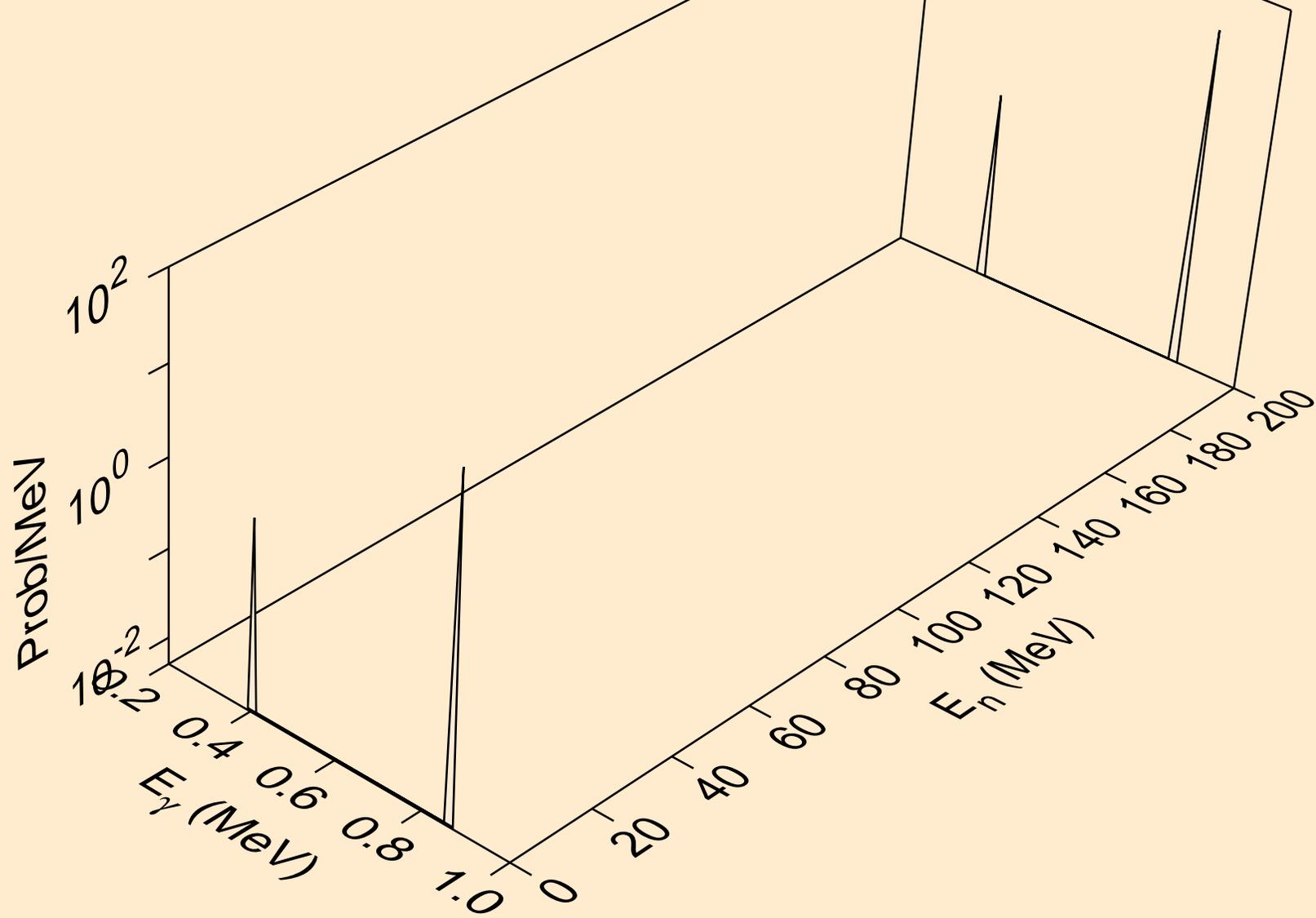Photon emission for (n,4n)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
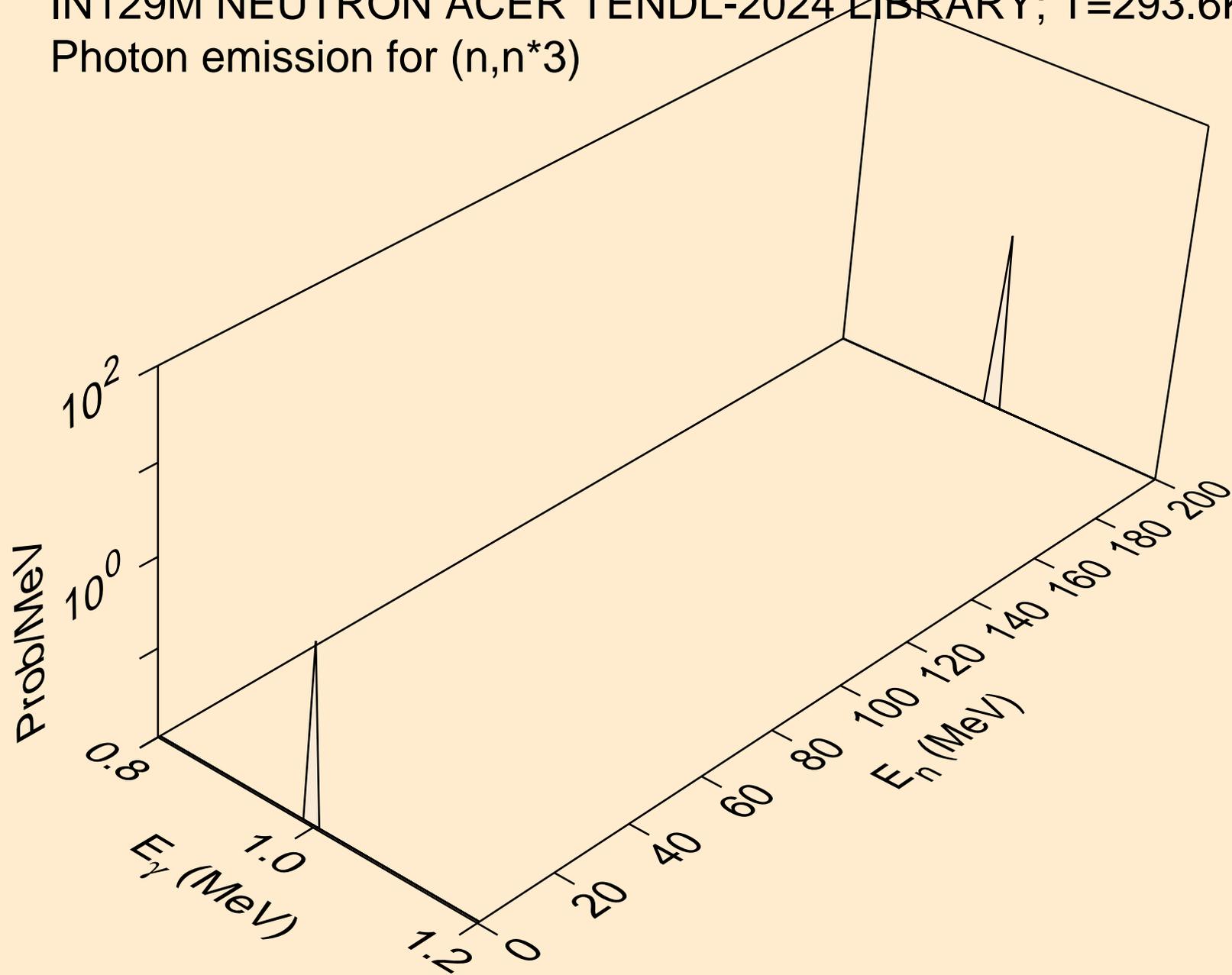Photon emission for (n,2np)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
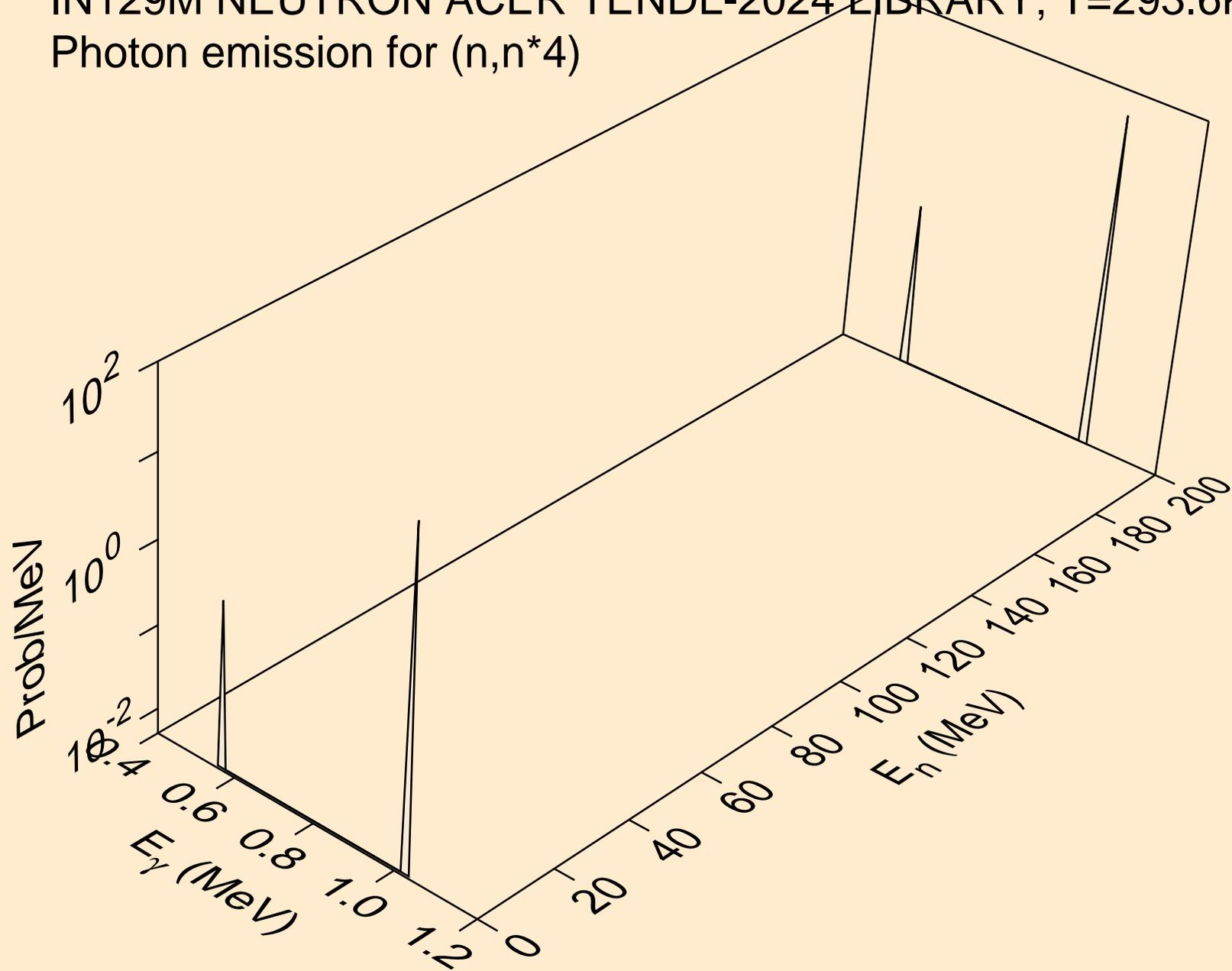Photon emission for (n,3np)

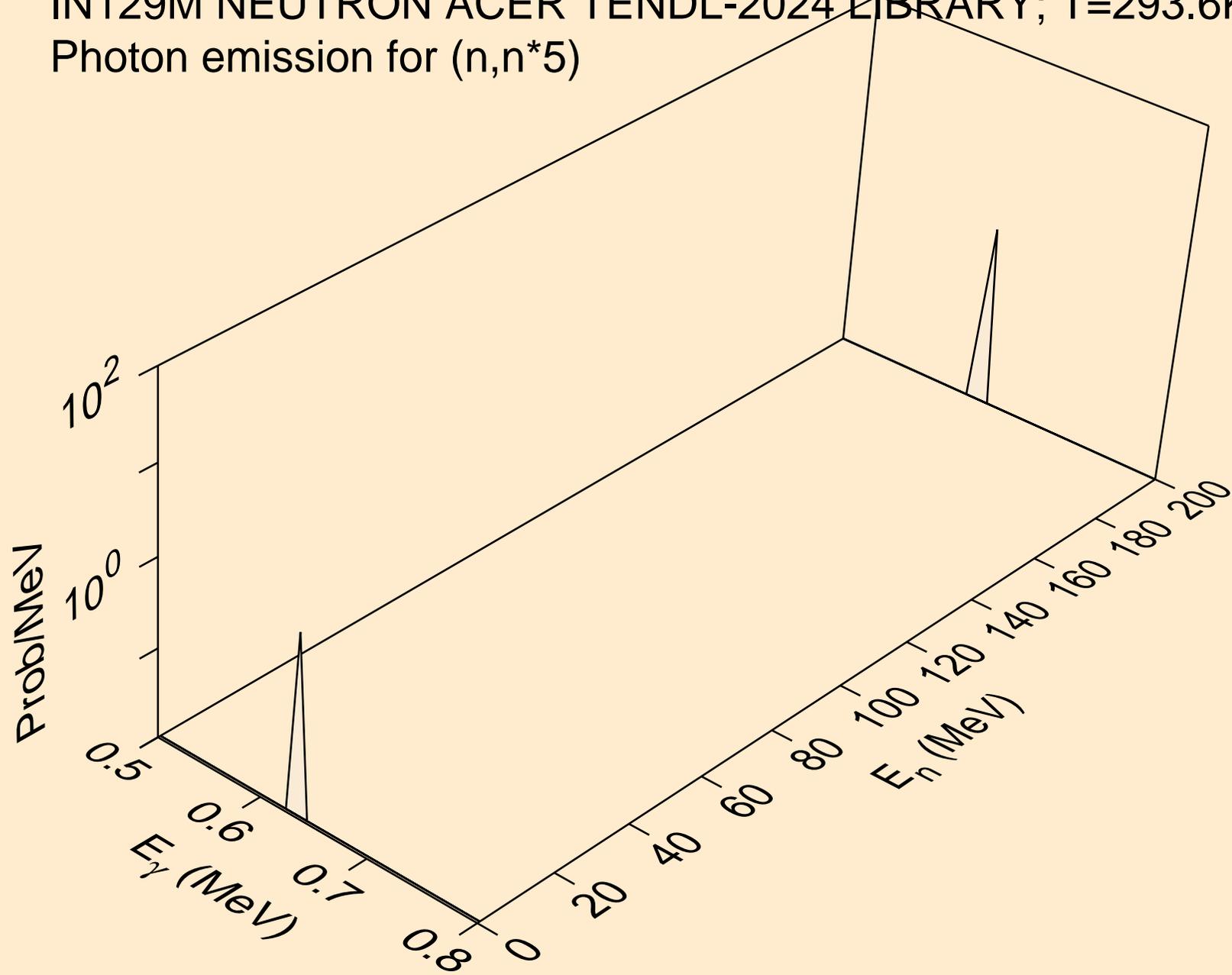IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Photon emission for (n,n*2)

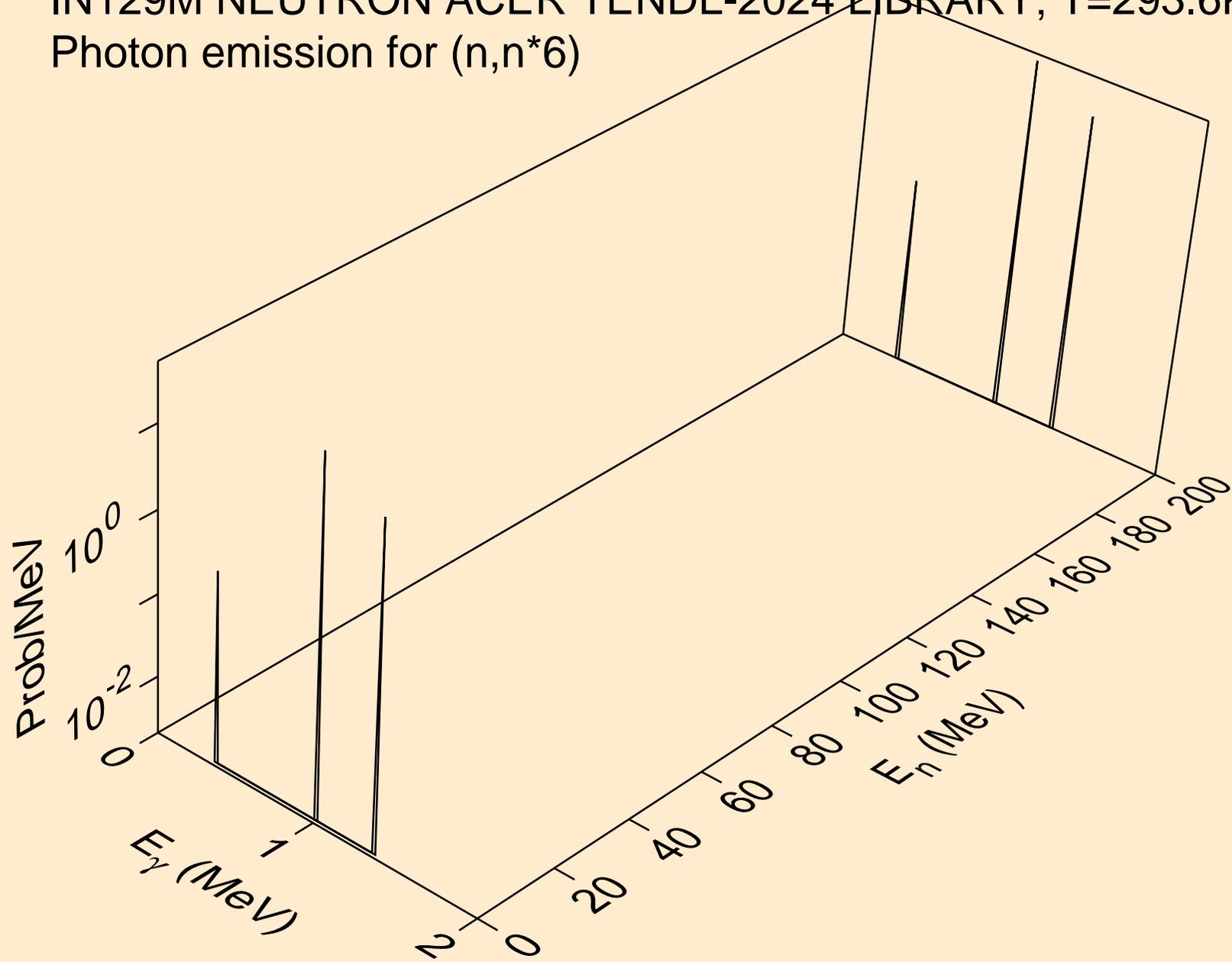IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Photon emission for (n,n*3)

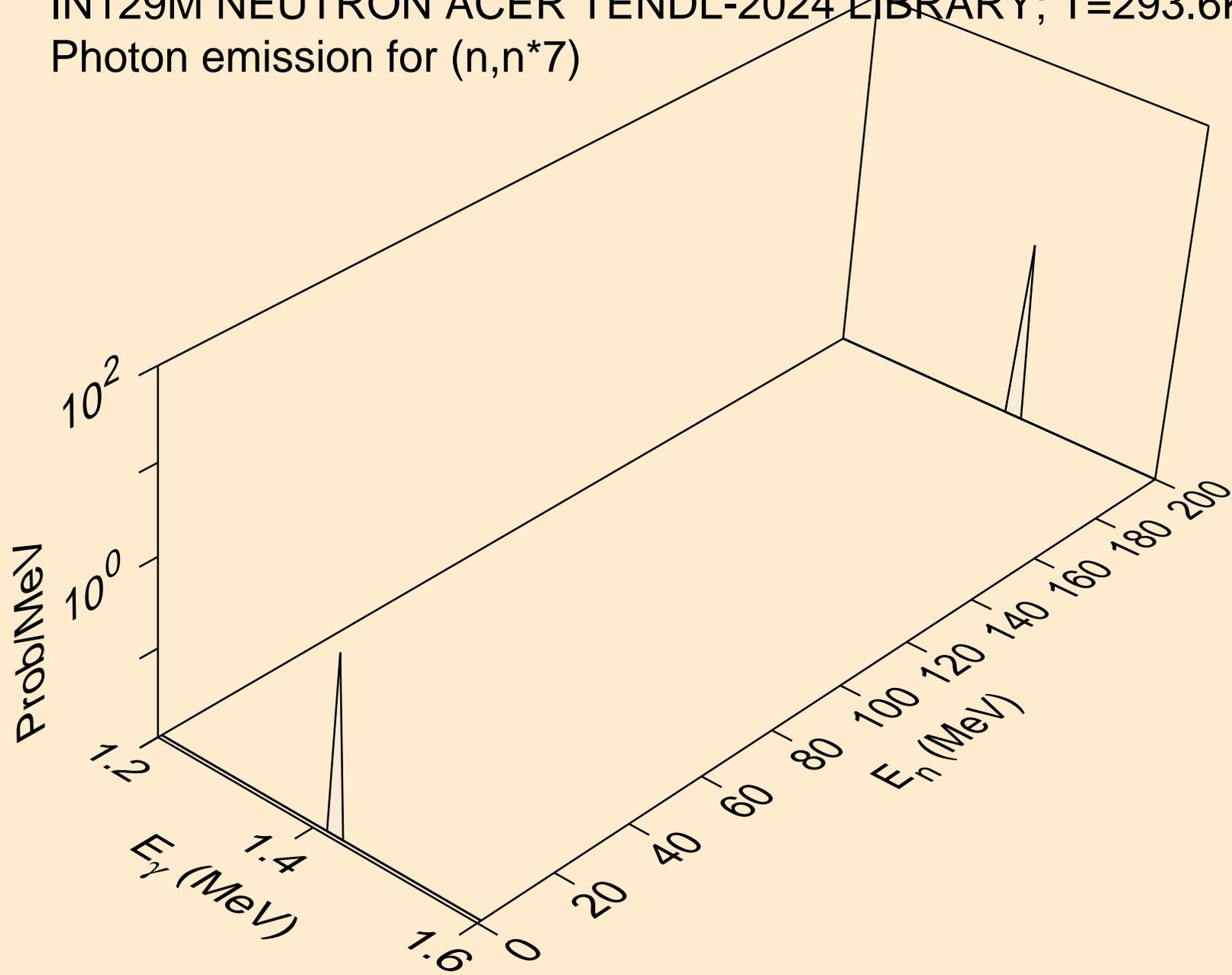IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Photon emission for (n,n*4)

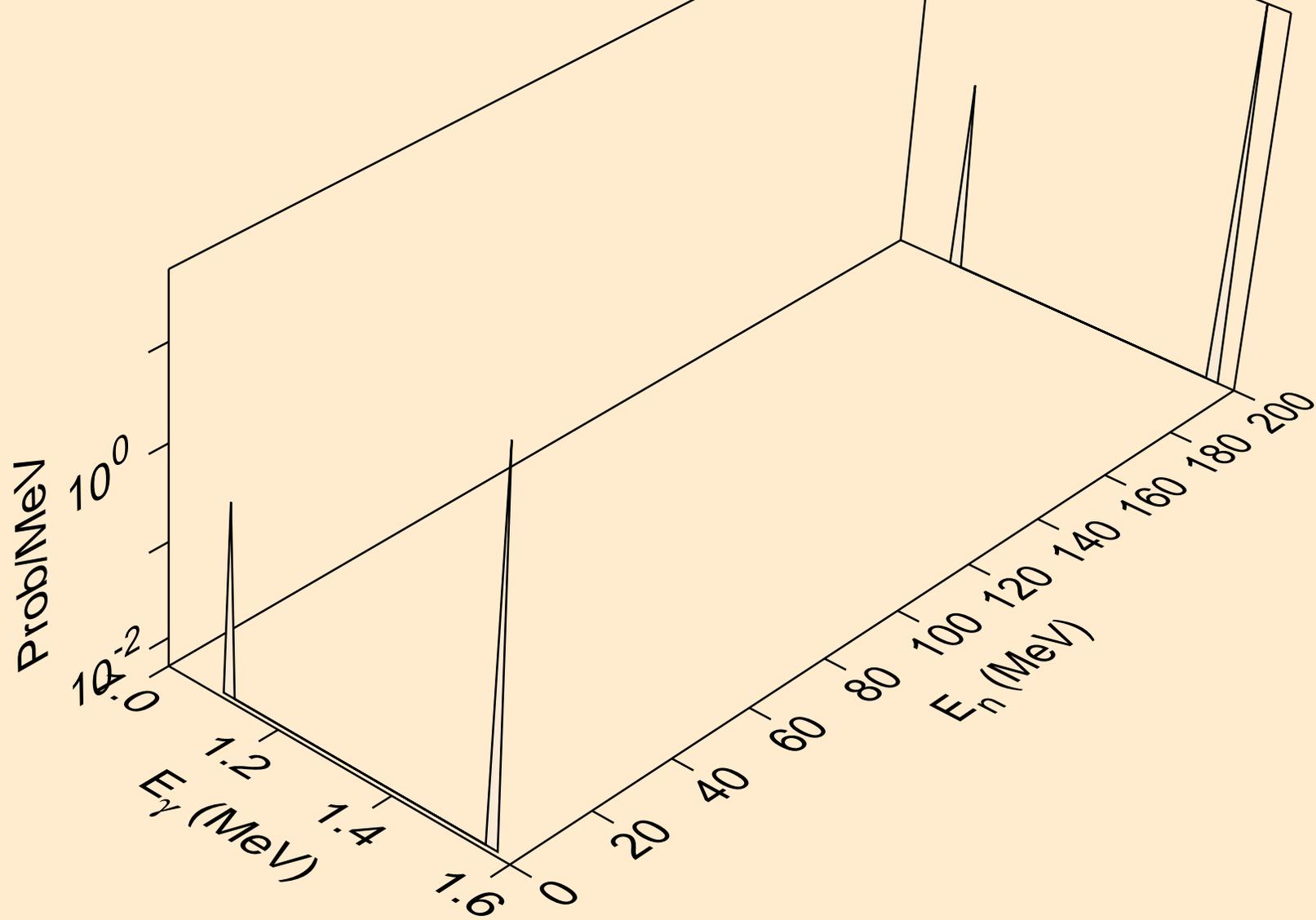IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Photon emission for (n,n*5)

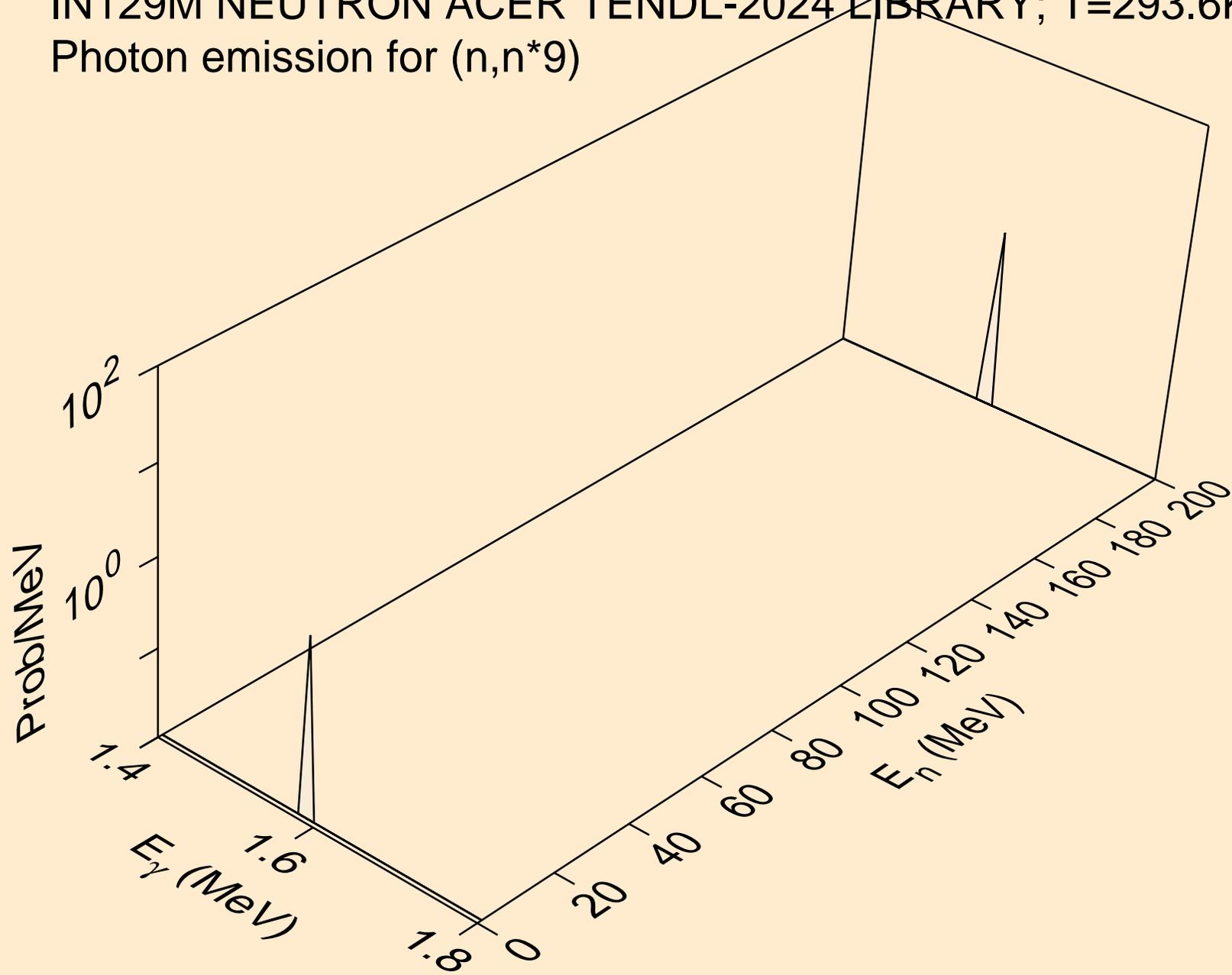IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Photon emission for (n,n*6)

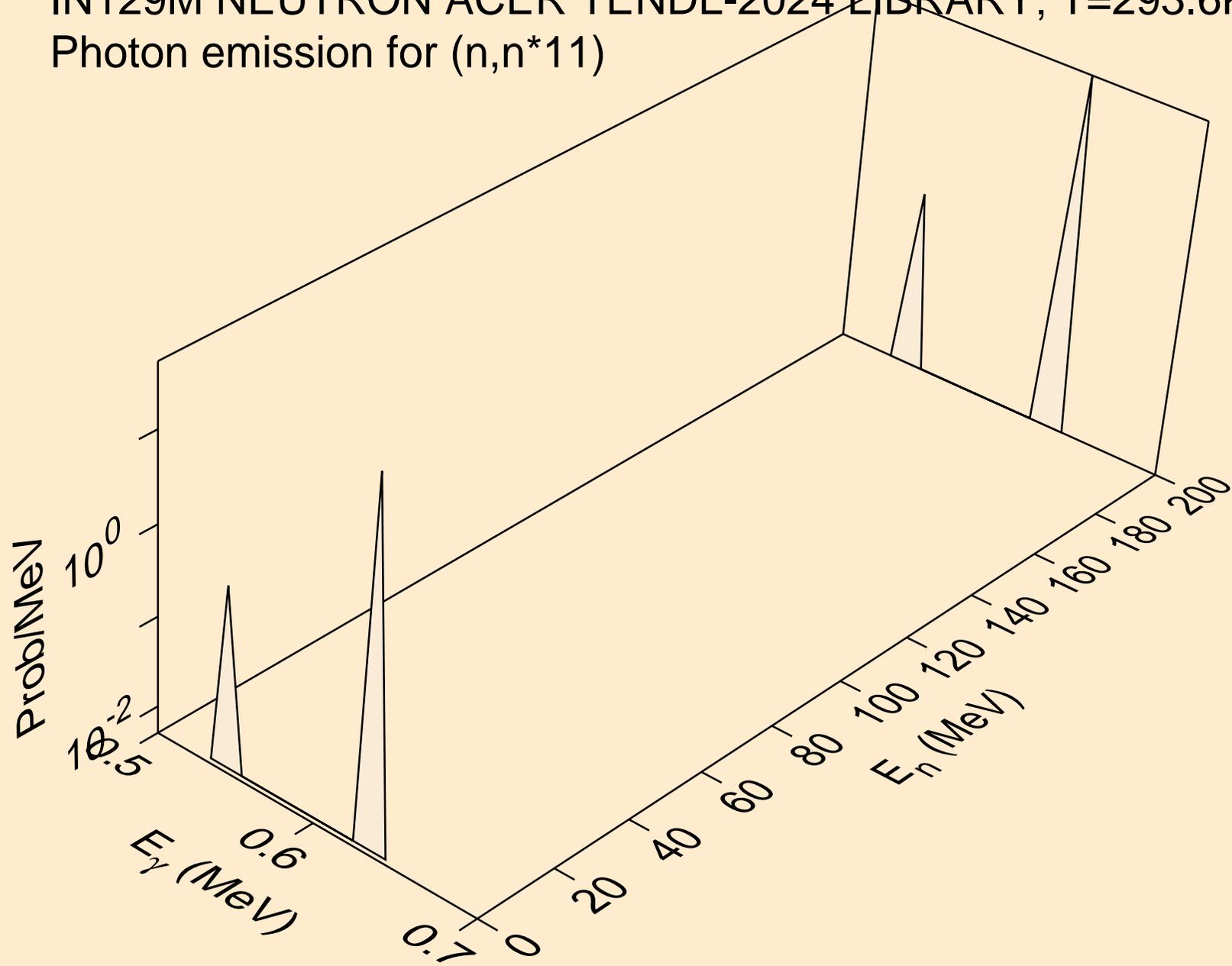IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Photon emission for (n,n*7)

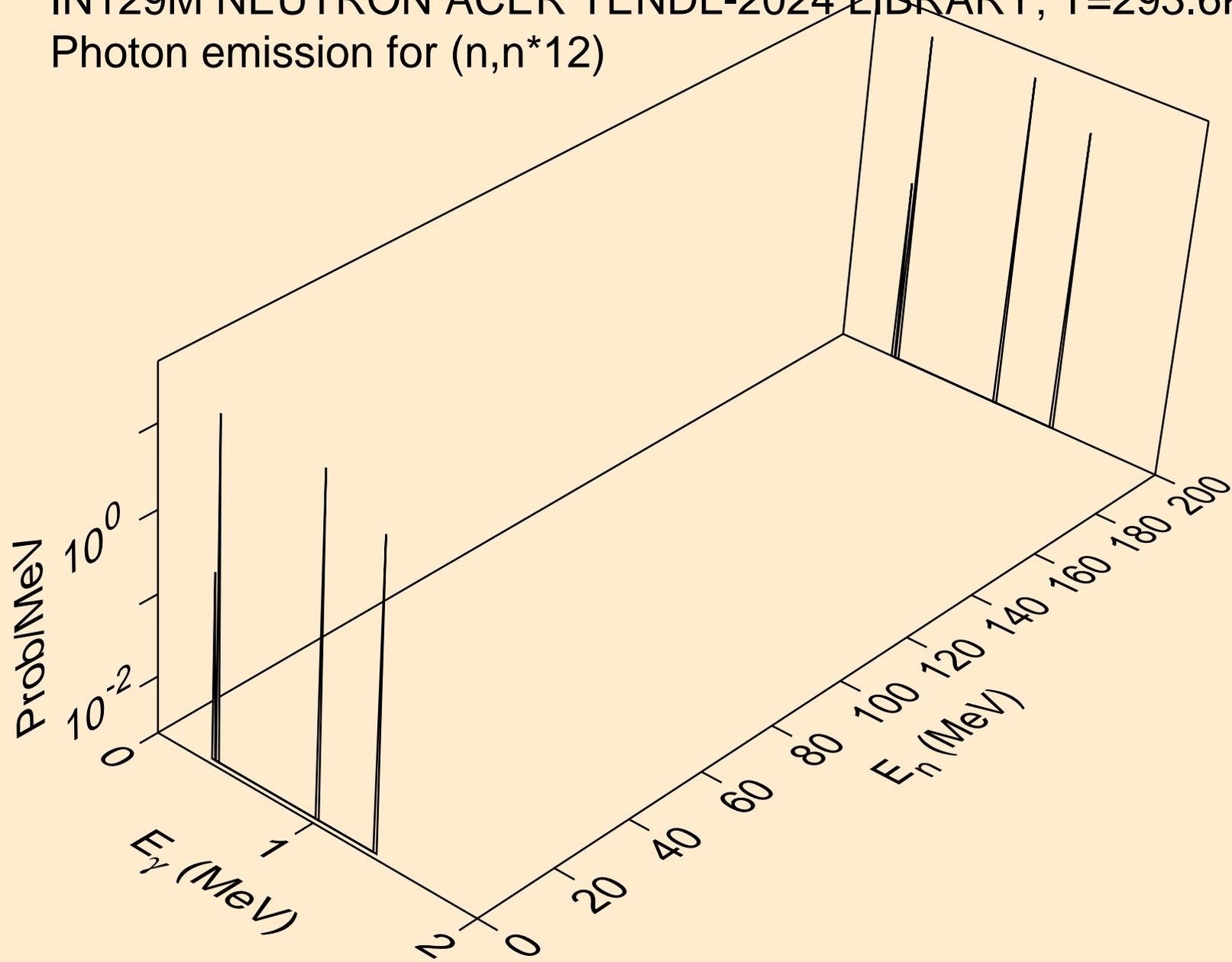IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Photon emission for (n,n*8)

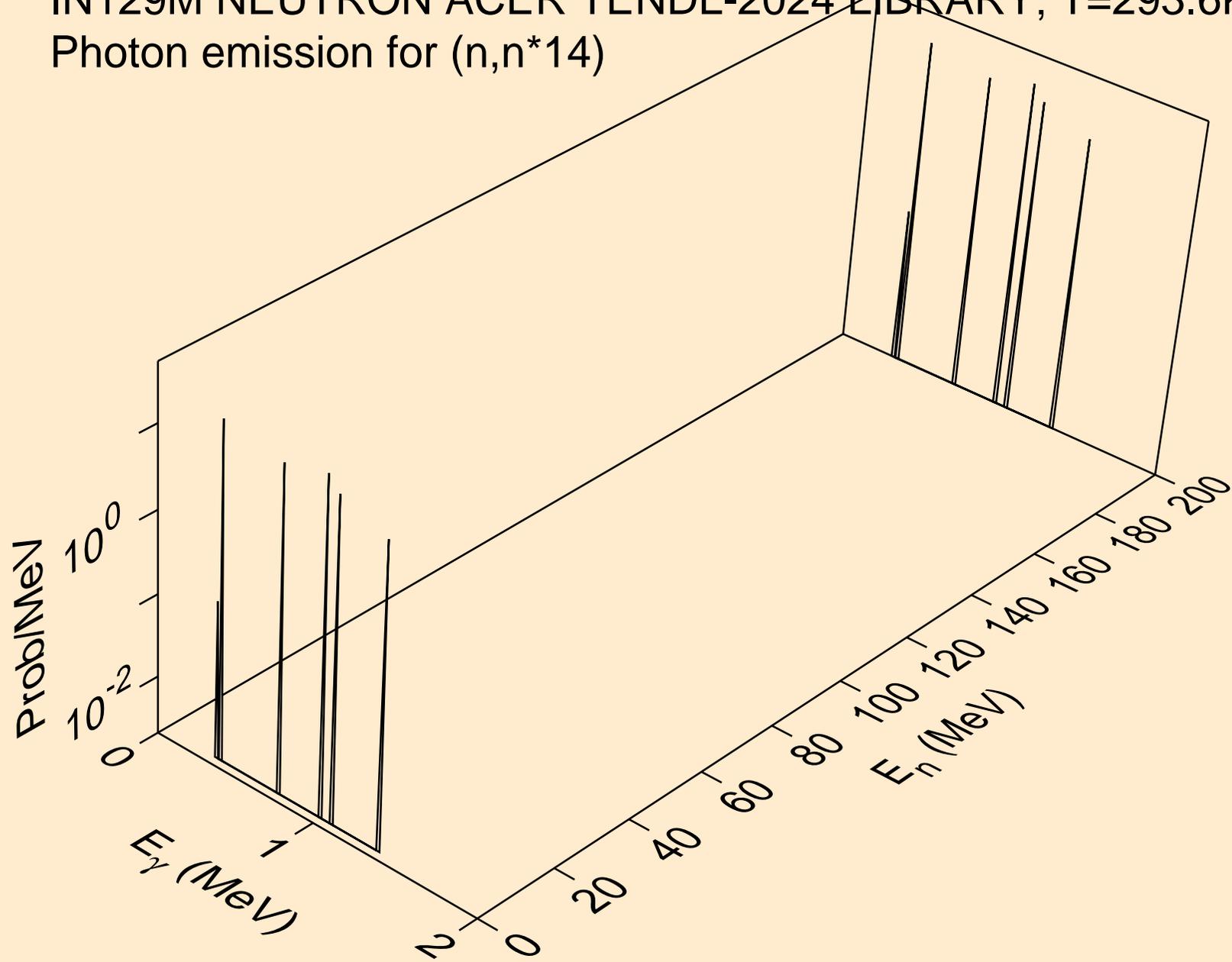IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Photon emission for (n,n*9)

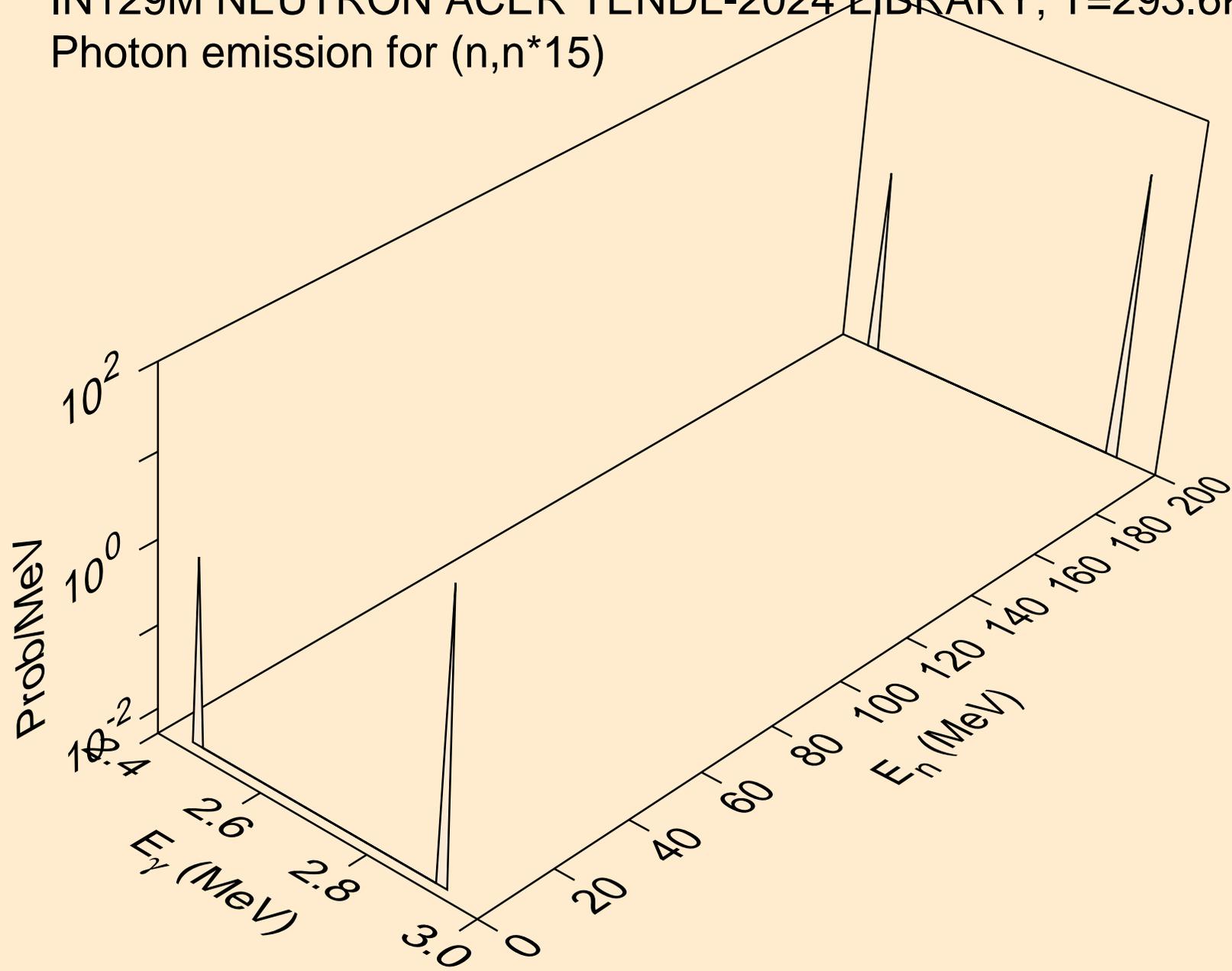IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Photon emission for (n,n*11)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Photon emission for (n,n*12)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Photon emission for (n,n*14)

ProblMeV

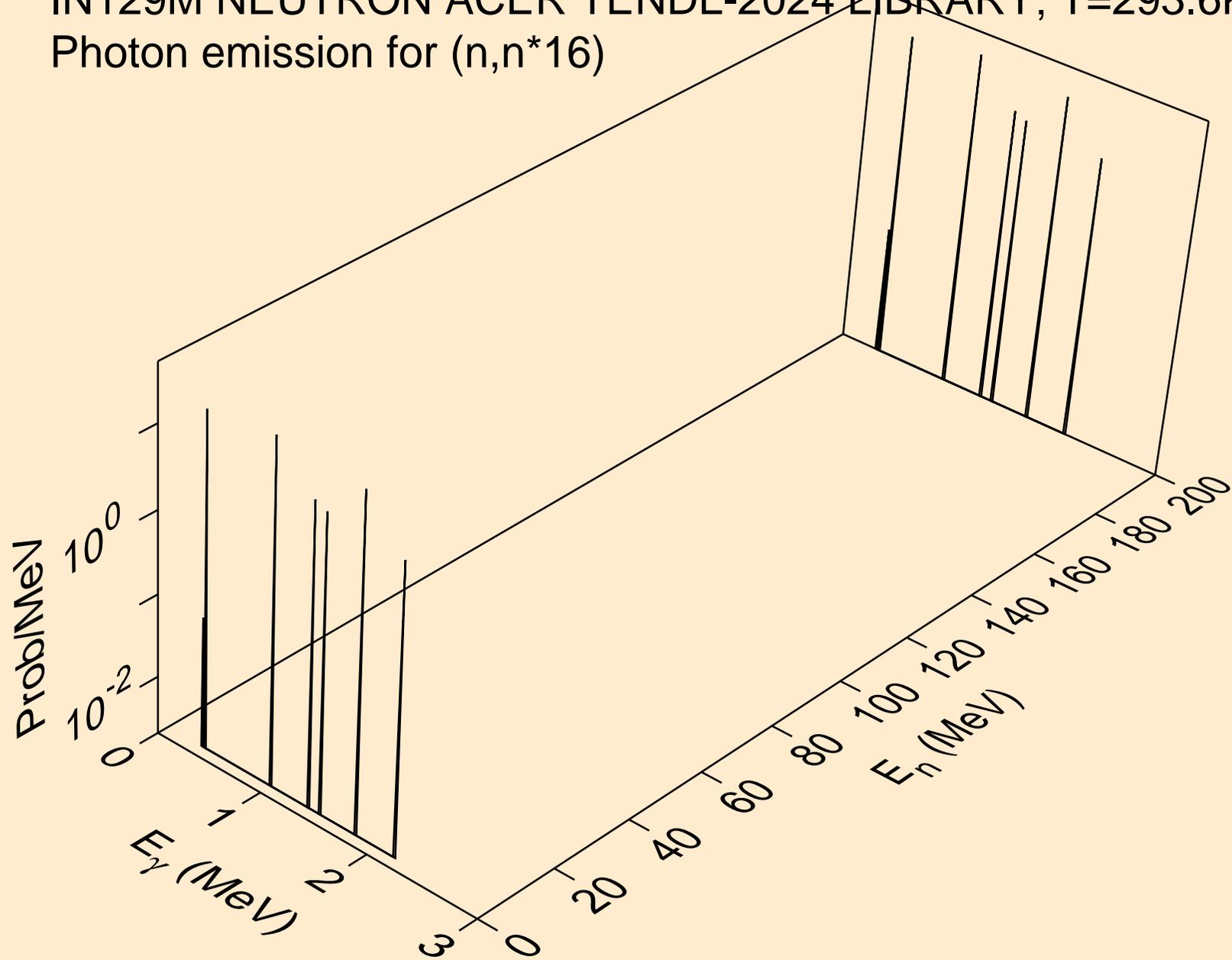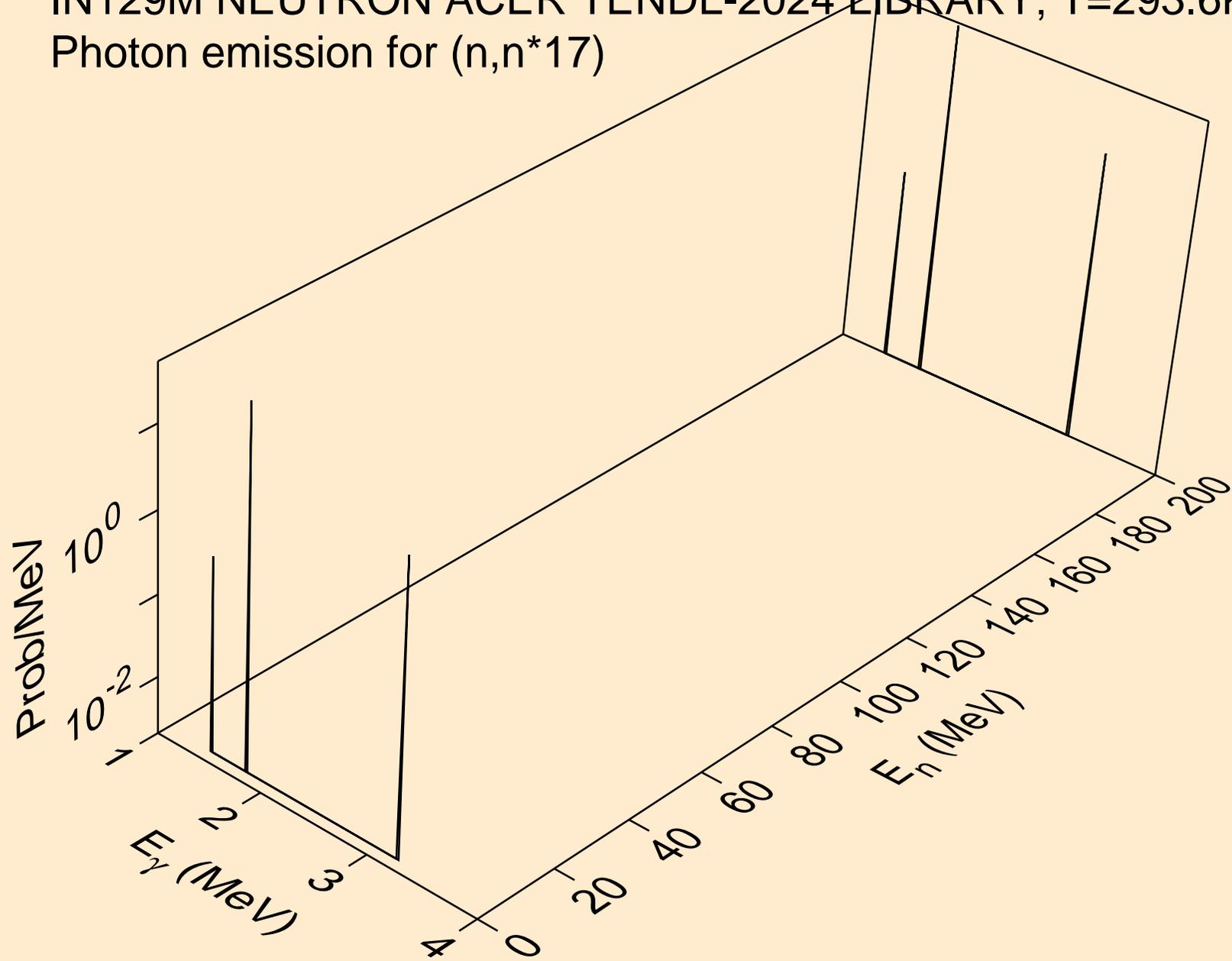10^0

10^{-2}

E_γ (MeV)

E_n (MeV)

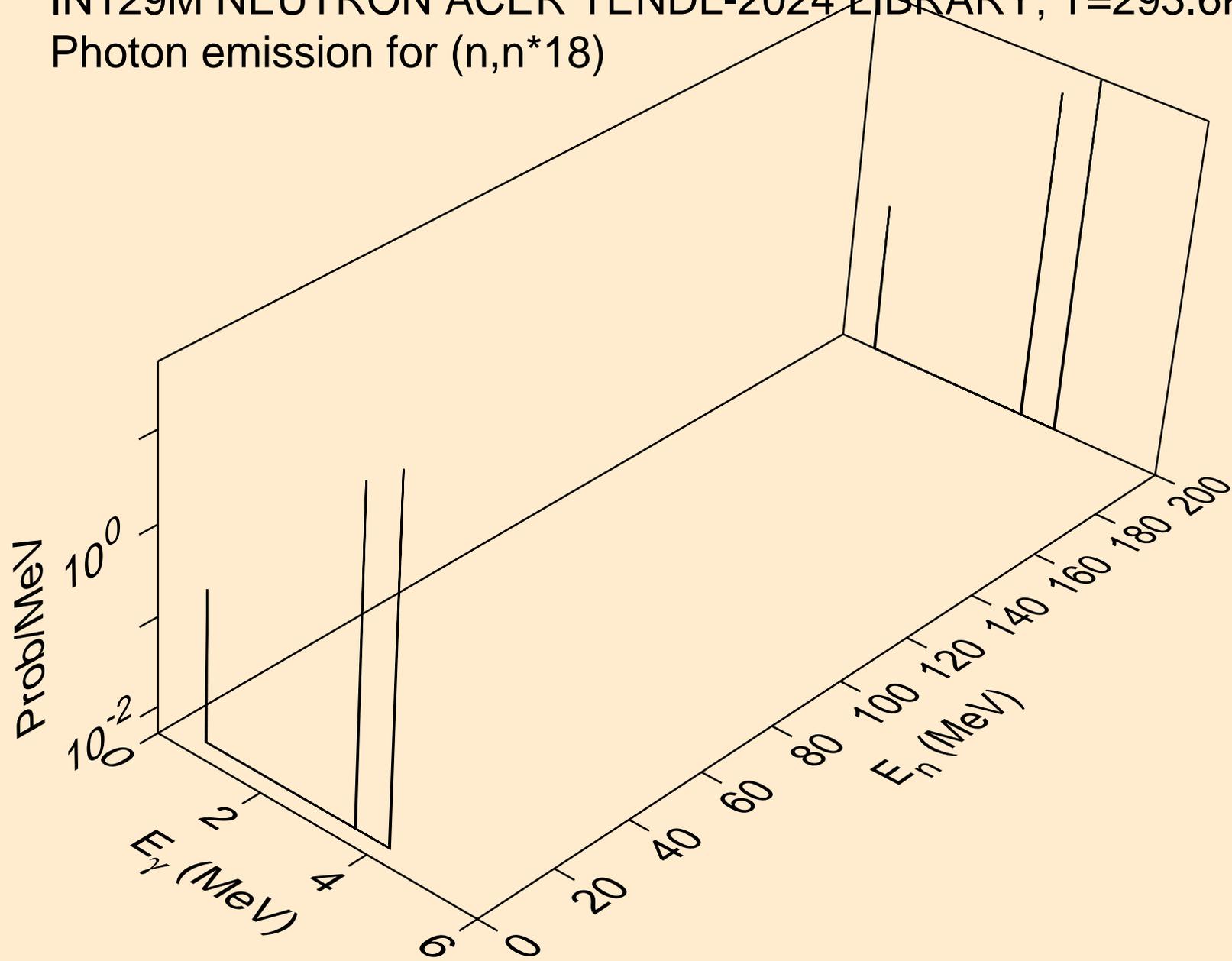IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Photon emission for (n,n*15)

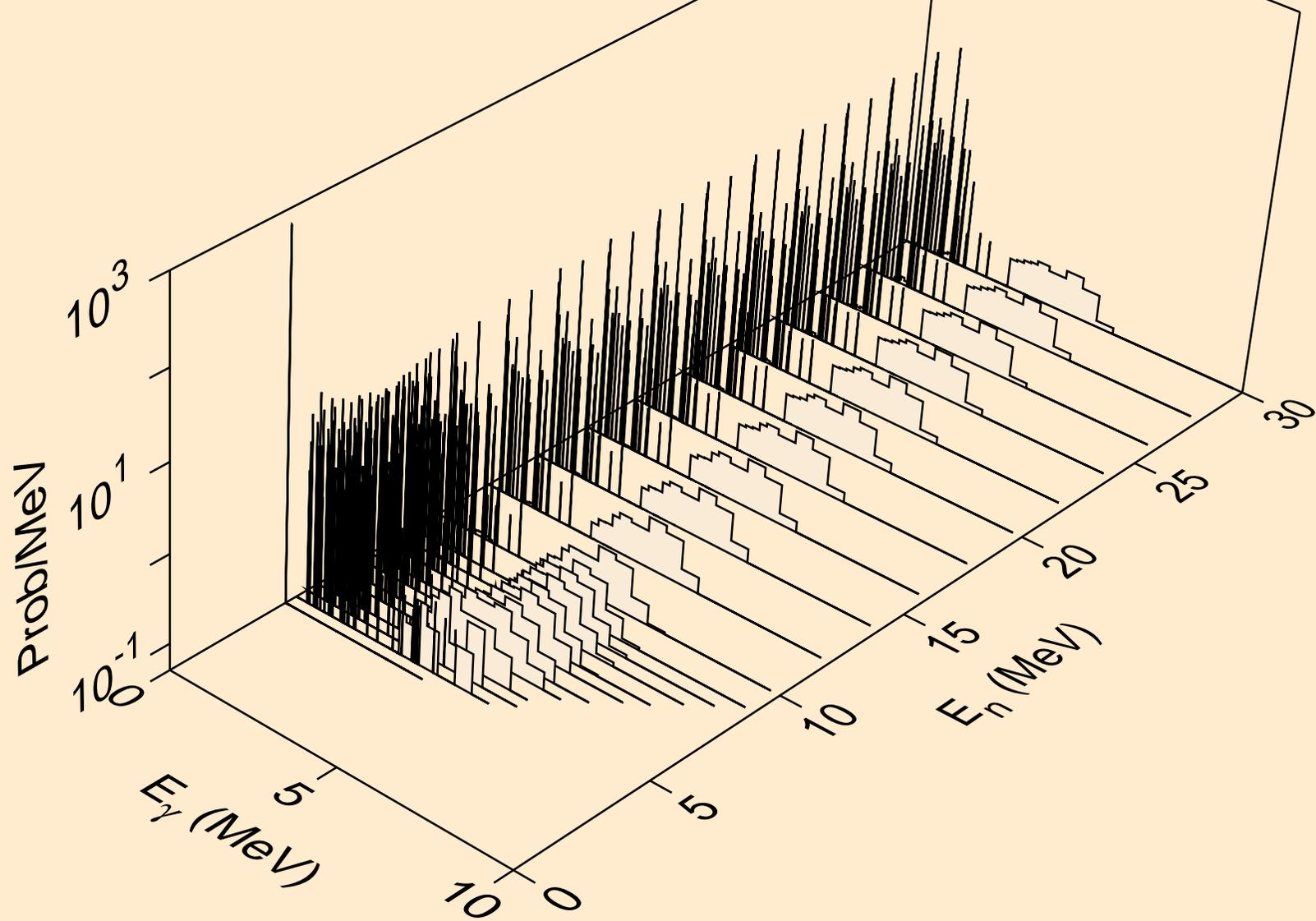IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Photon emission for (n,n*16)

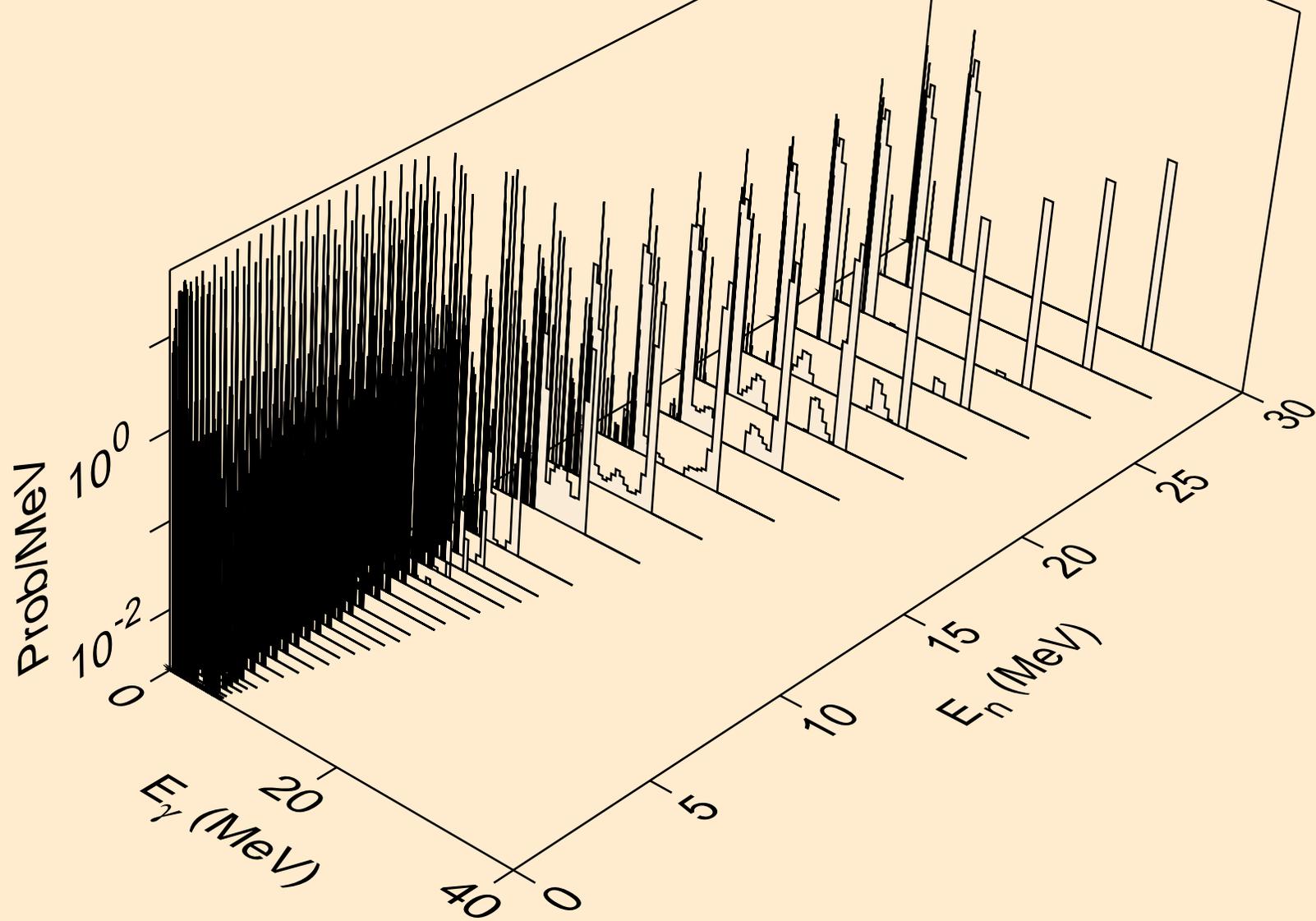IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Photon emission for (n,n*17)

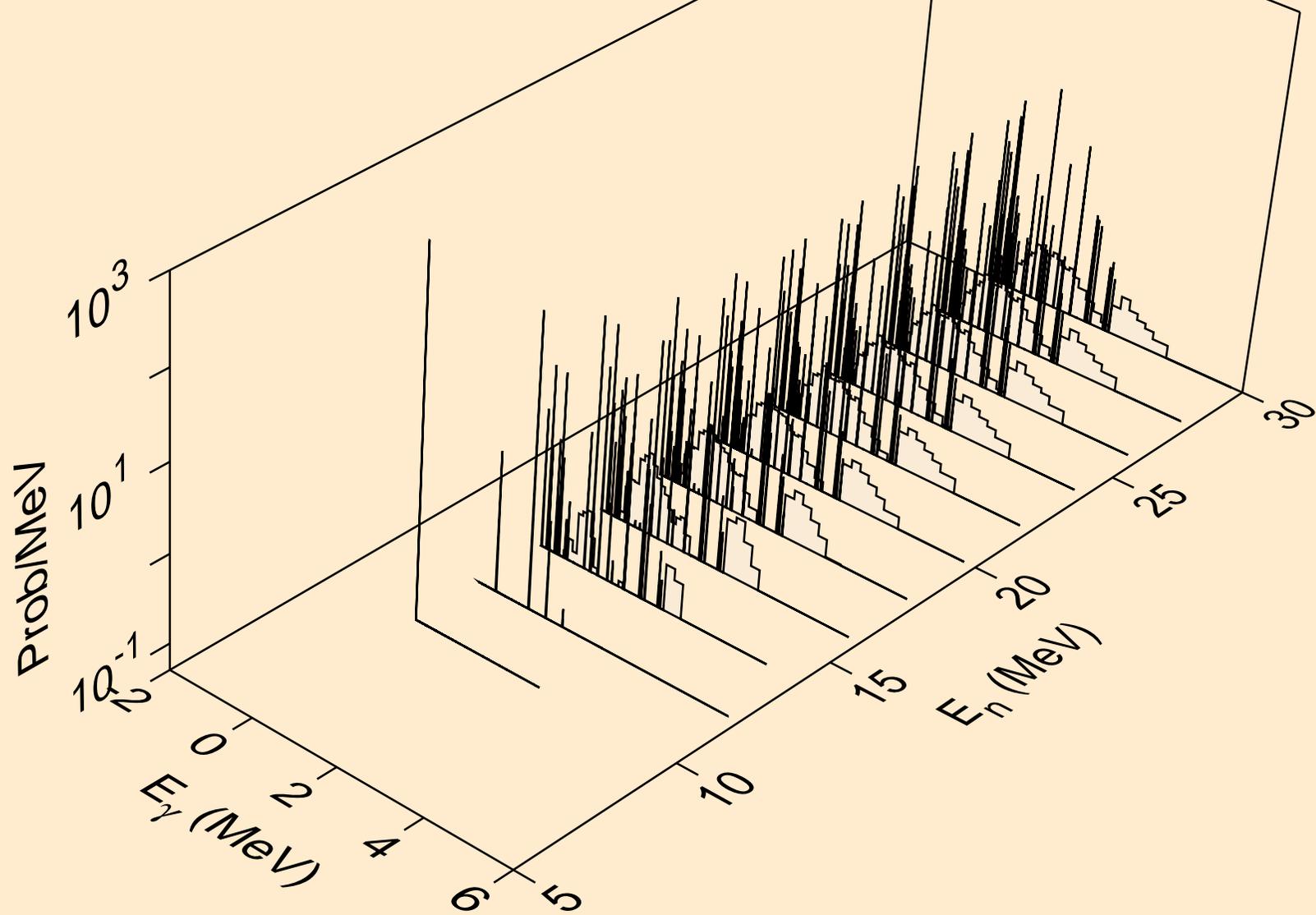IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Photon emission for (n,n*18)

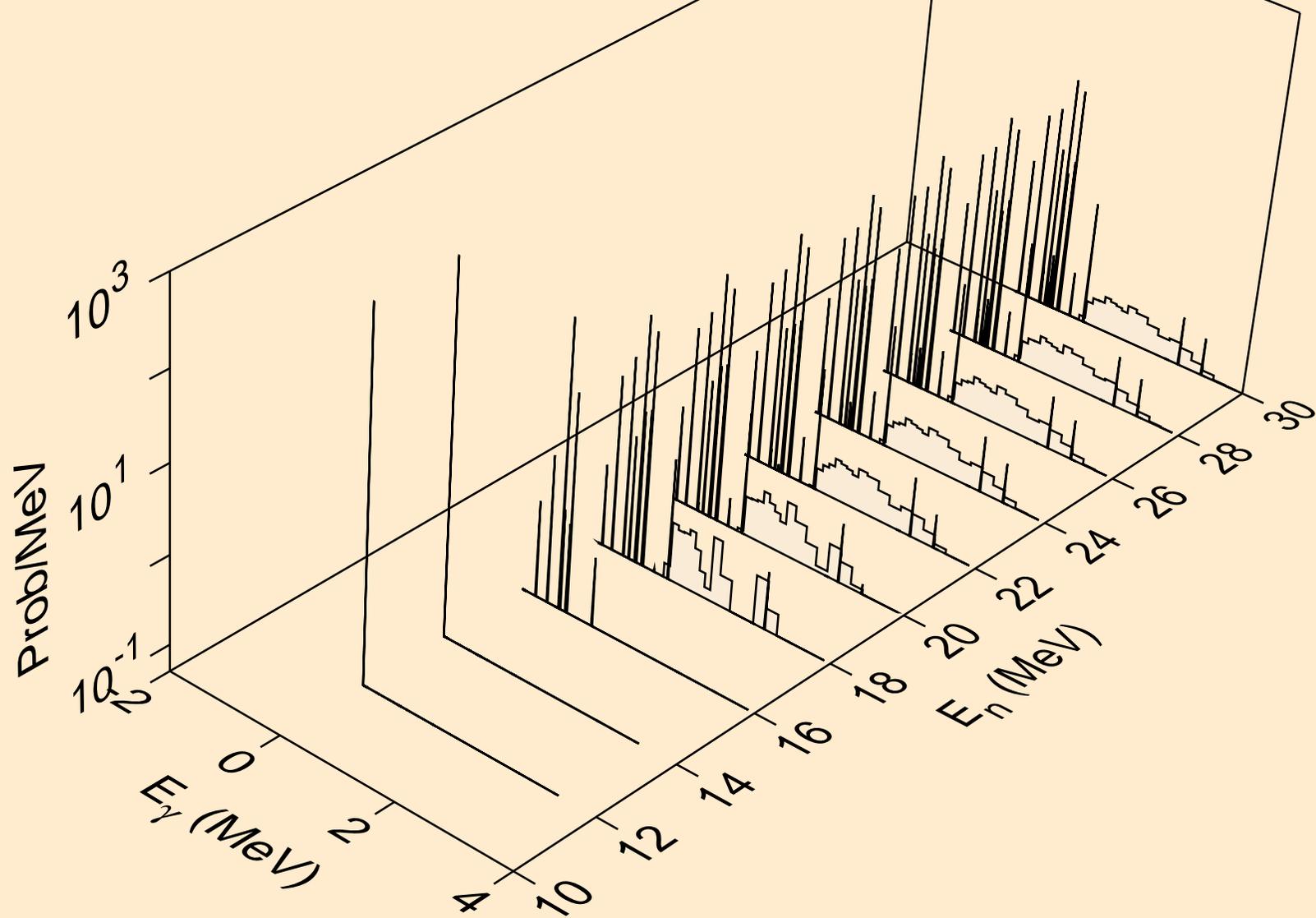IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Photon emission for (n,n*c)

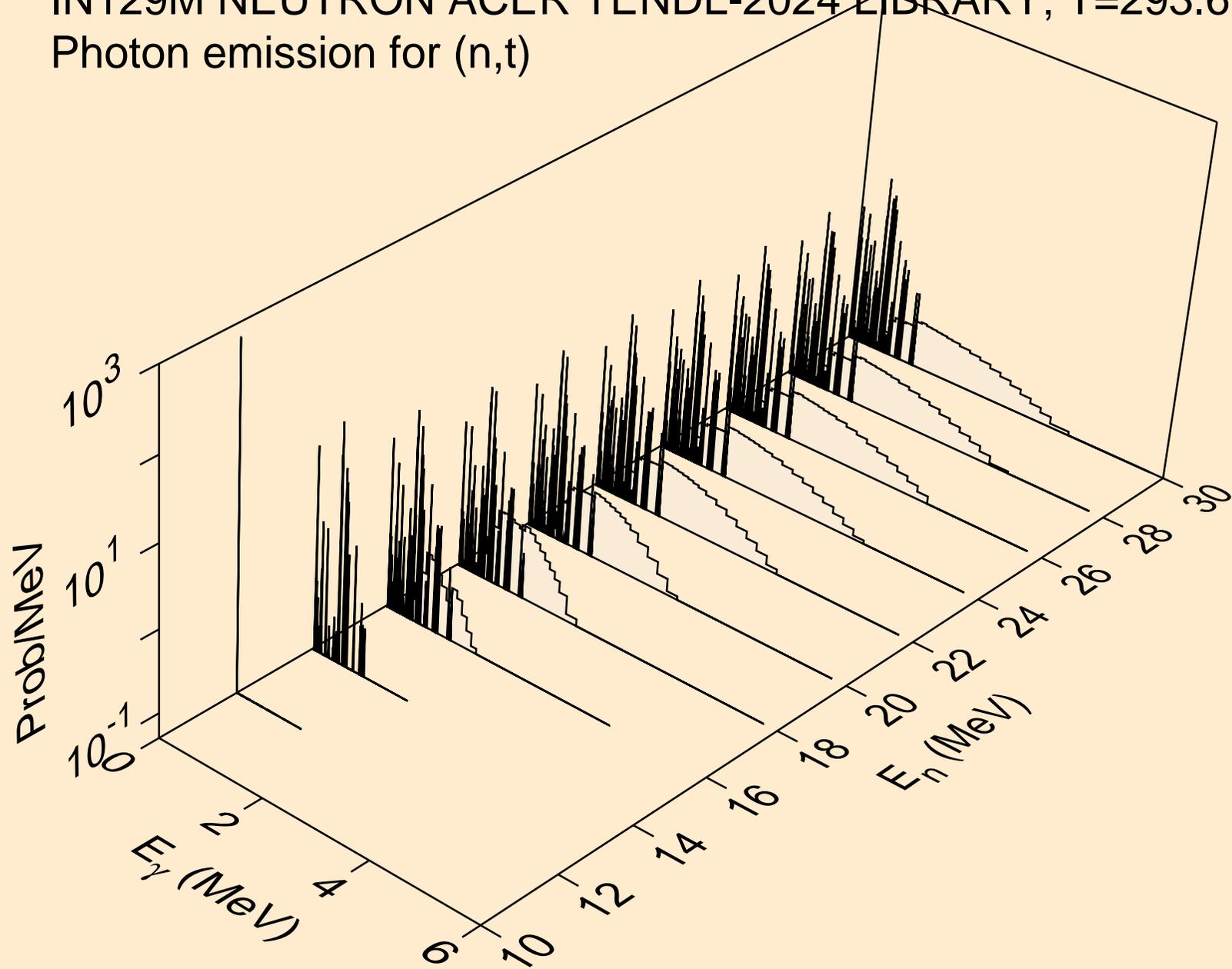IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Photon emission for (n,gma)

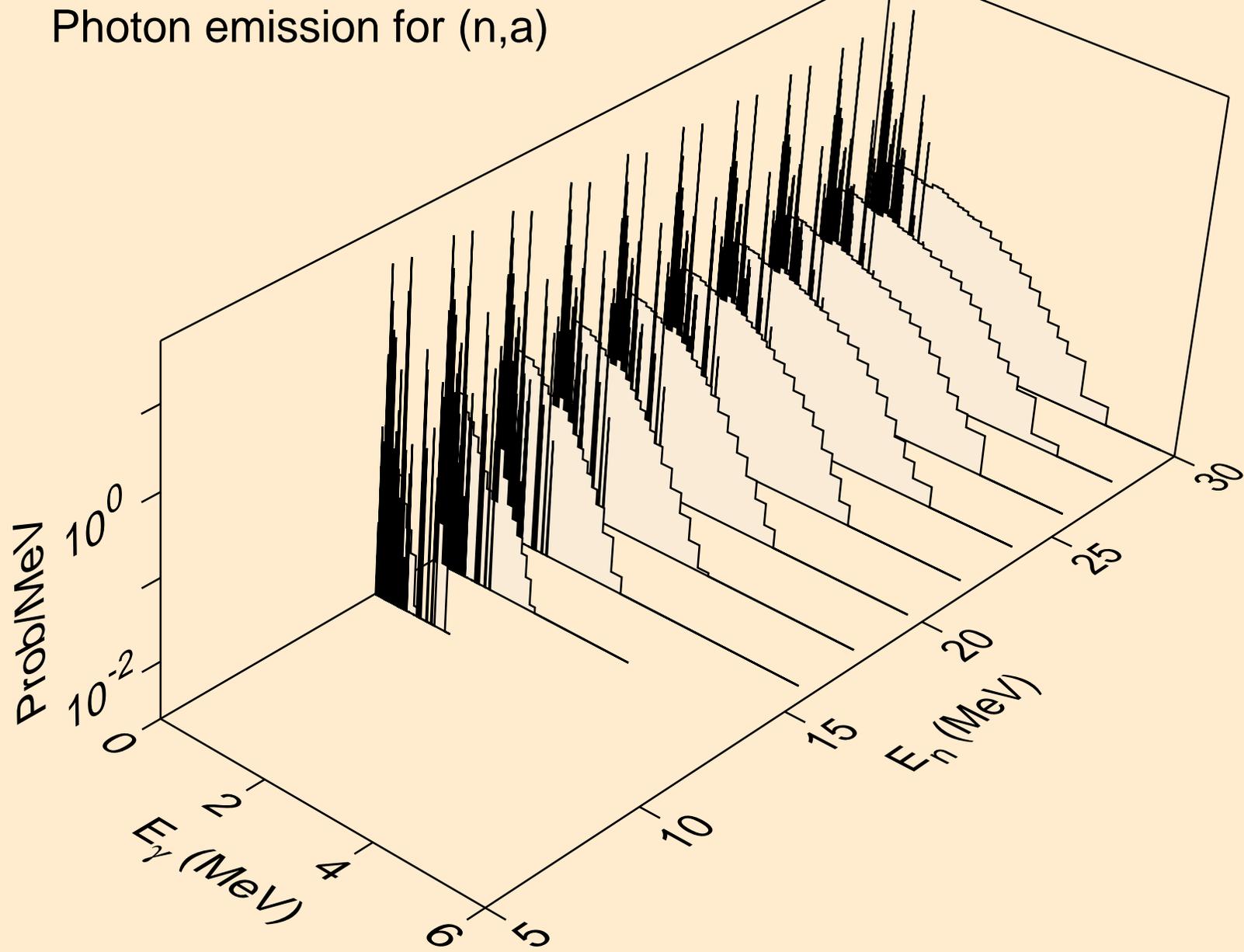IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Photon emission for (n,p)

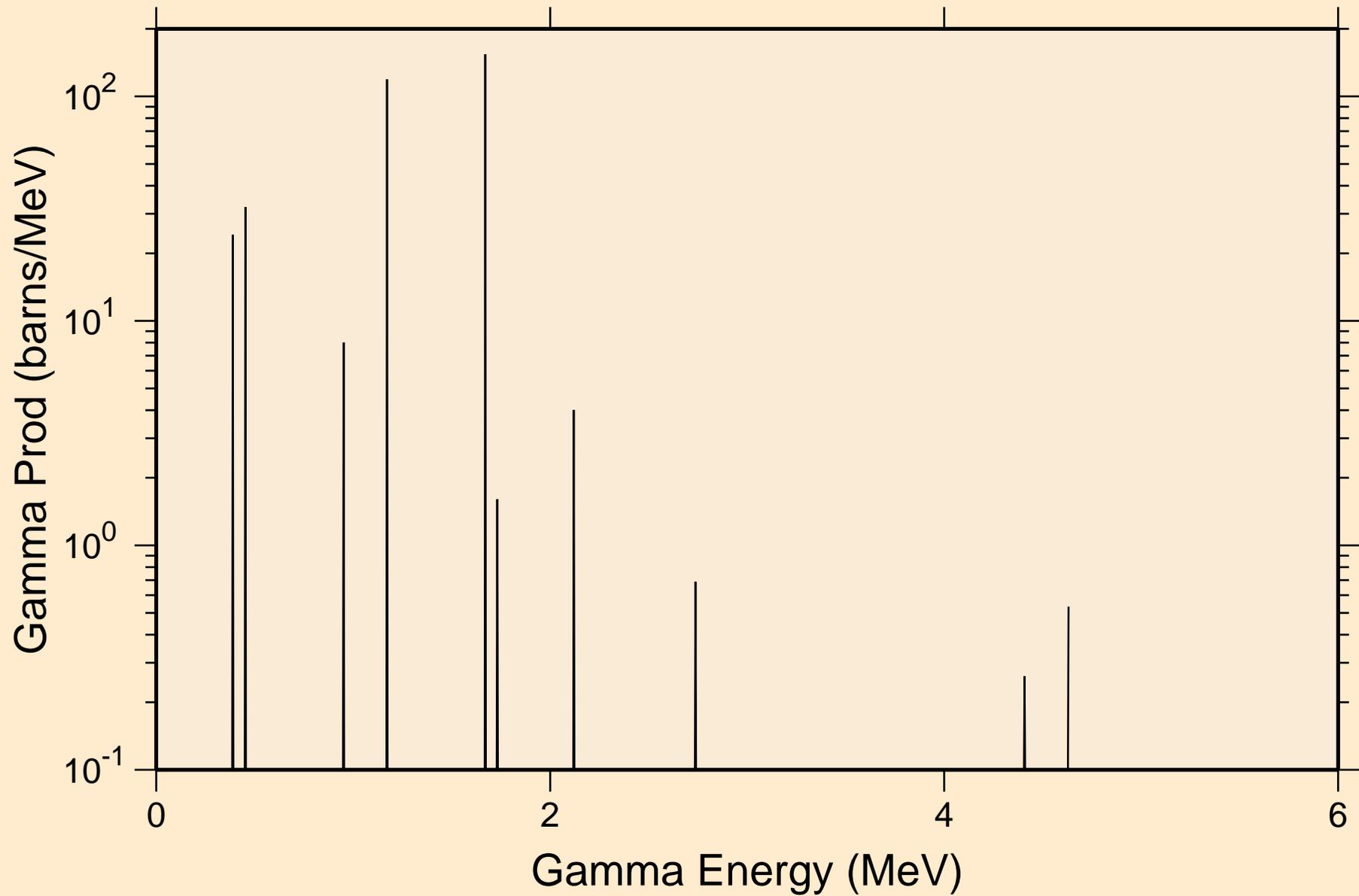IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Photon emission for (n,d)

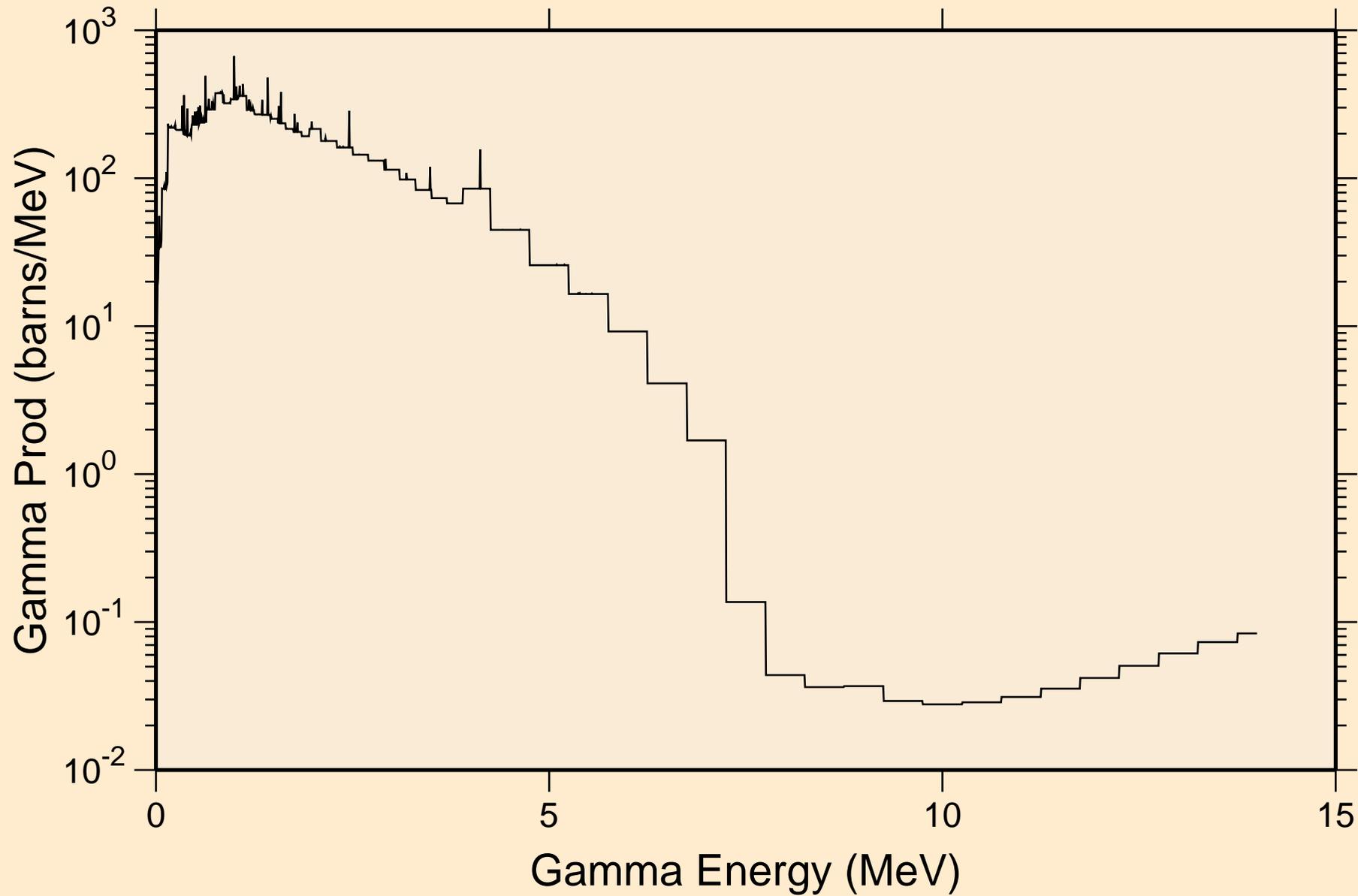IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Photon emission for (n,t)

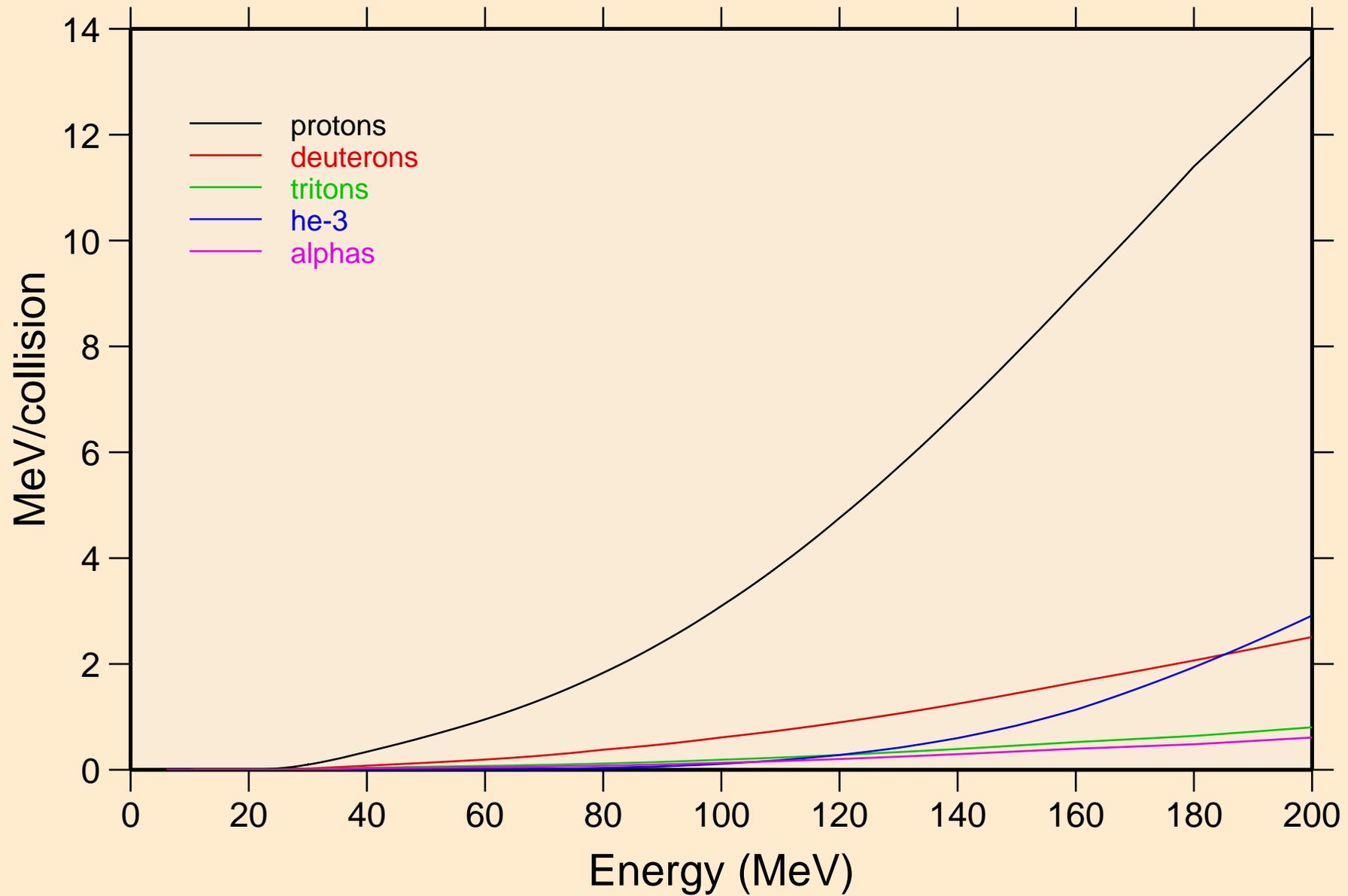IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Photon emission for (n,a)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
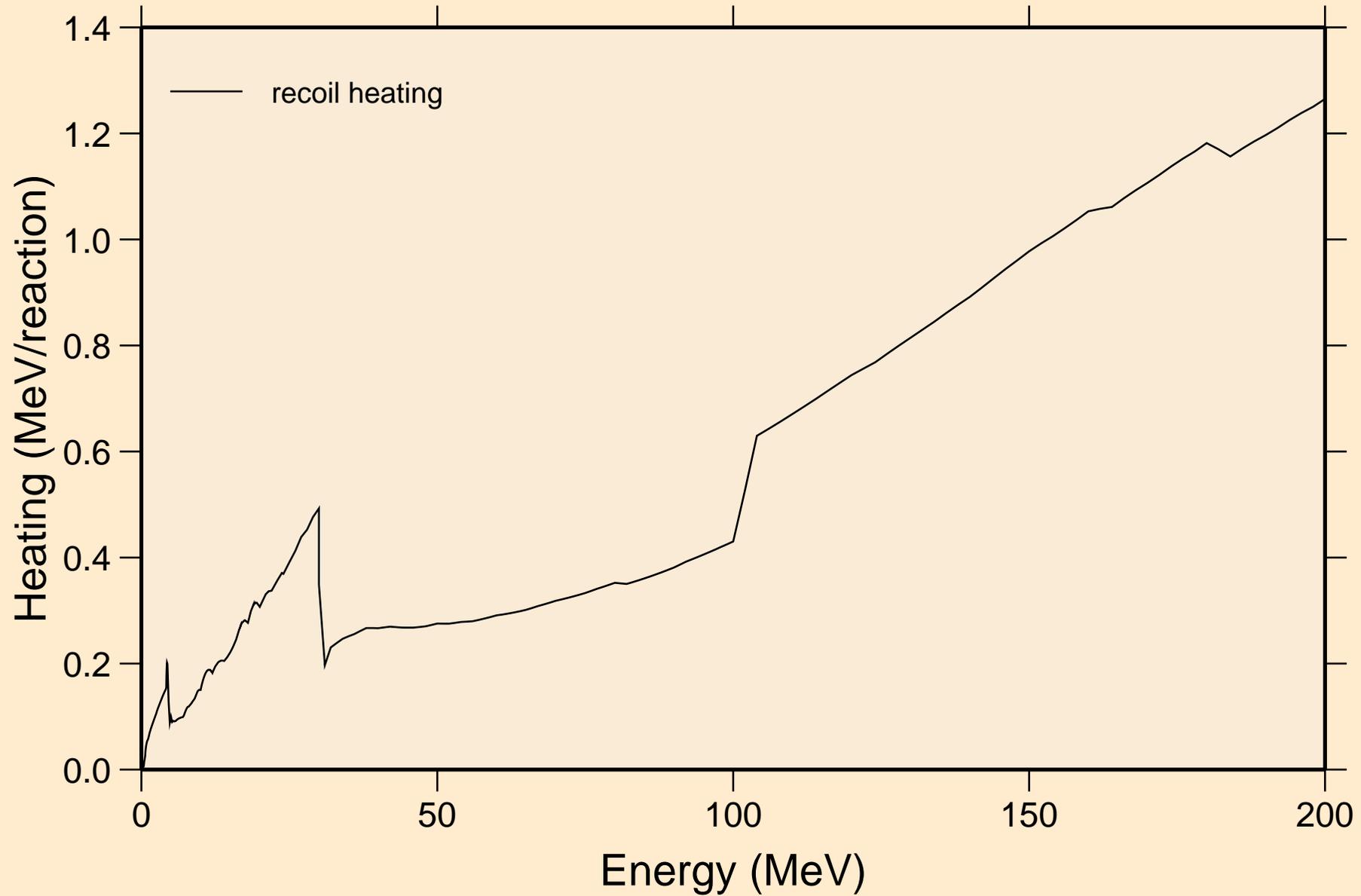thermal capture photon spectrum

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
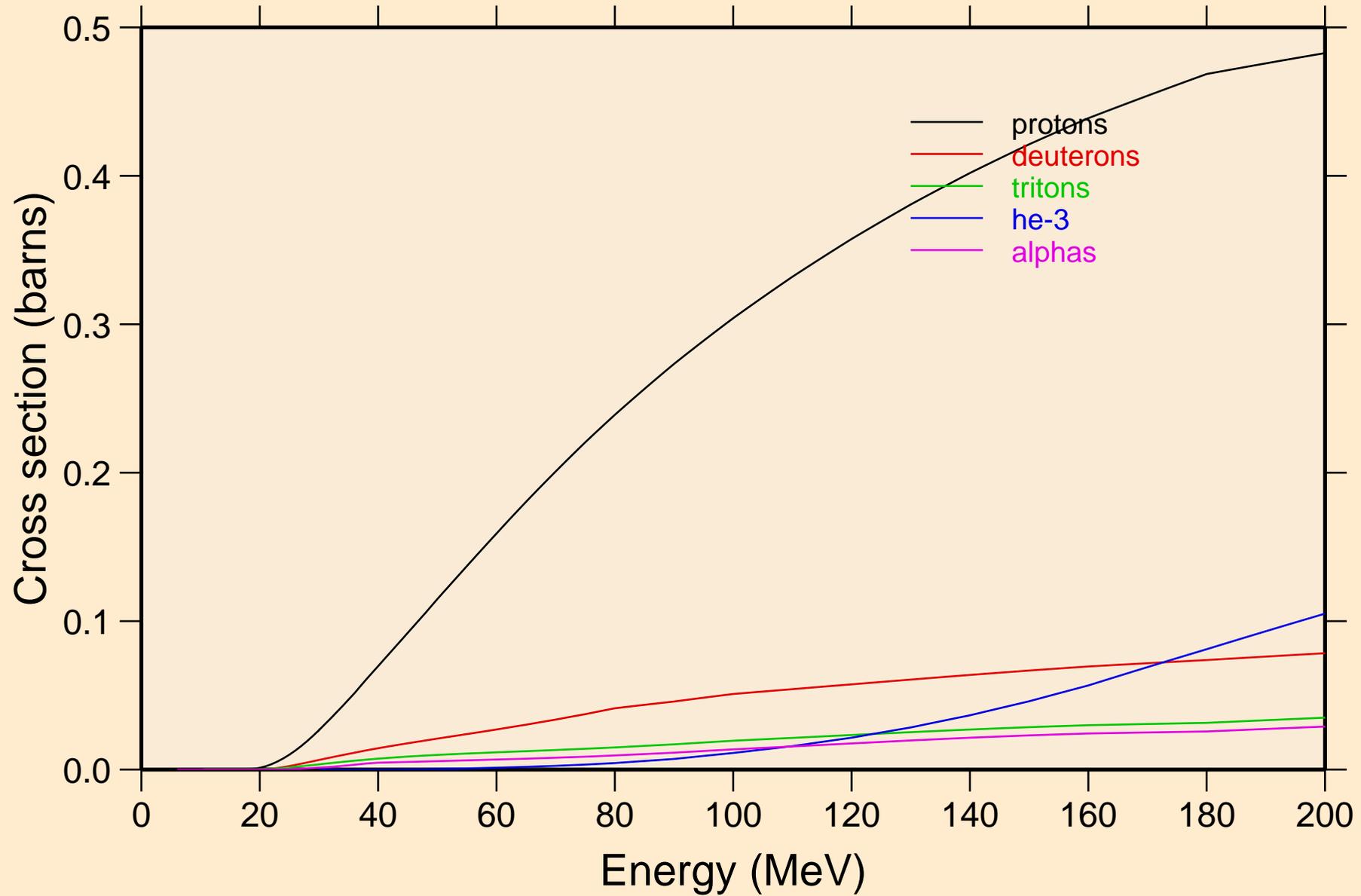14 MeV photon spectrum

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
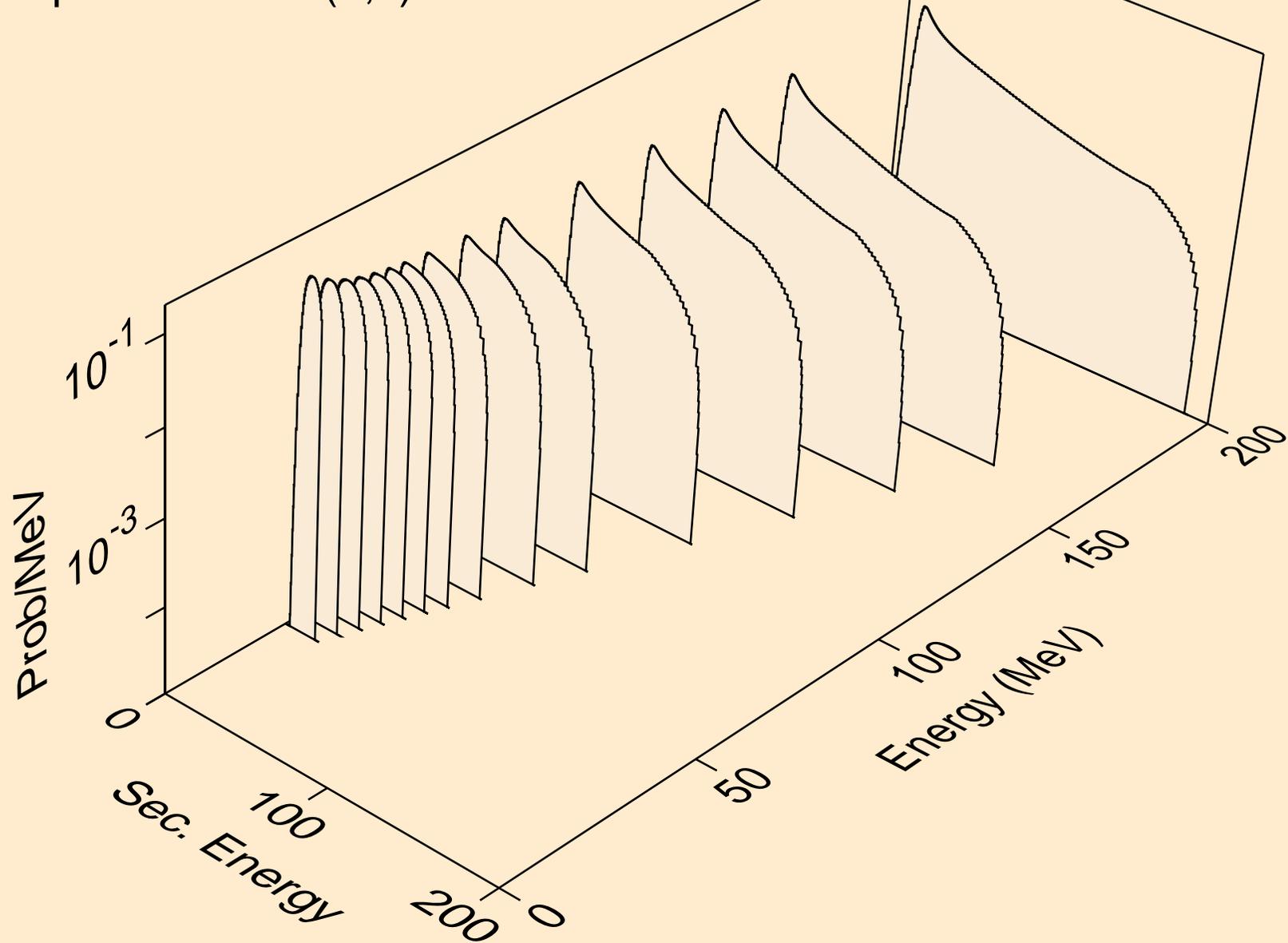Particle heating contributions

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Recoil Heating

recoil heating

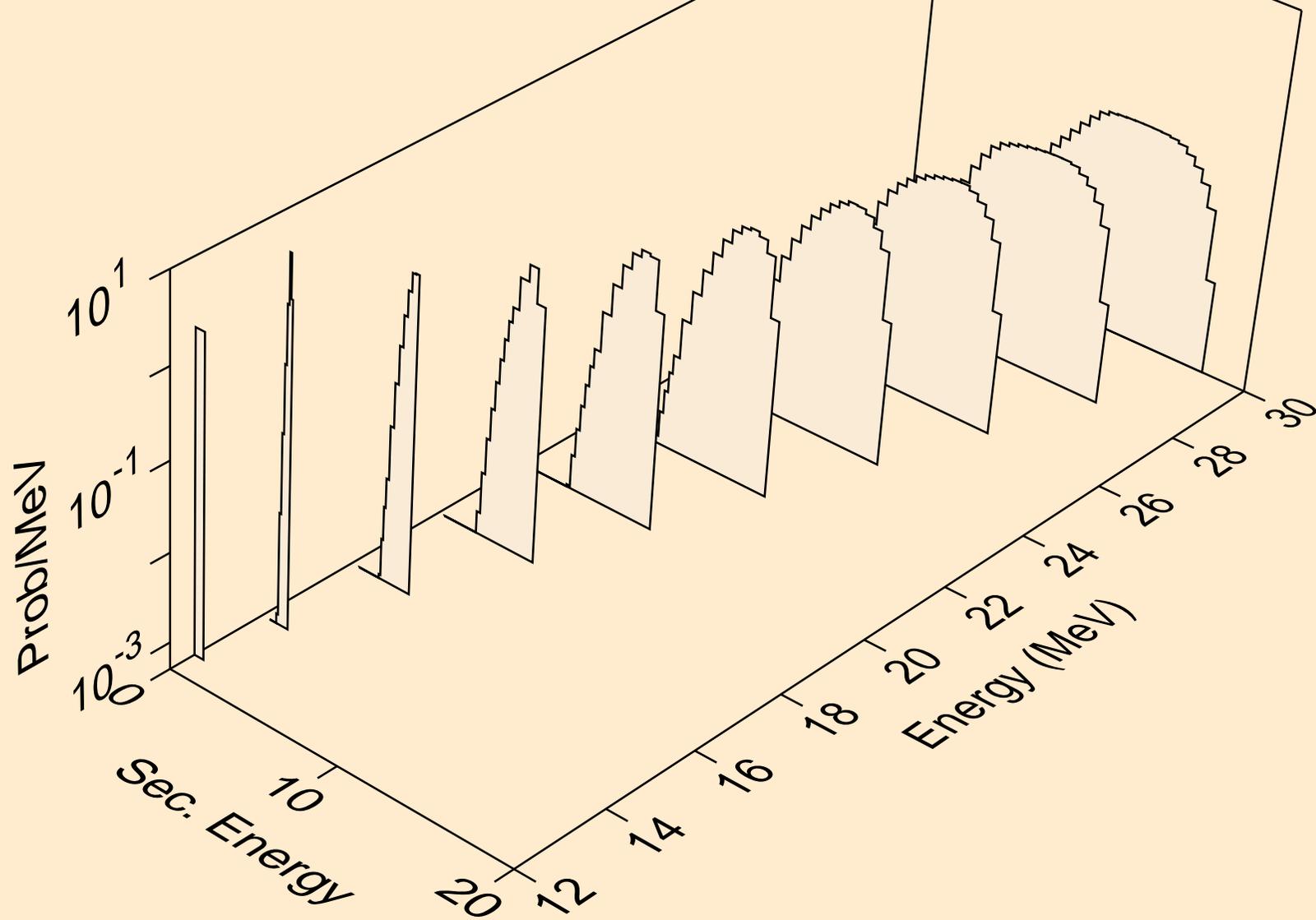Heating (MeV/reaction)

Energy (MeV)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
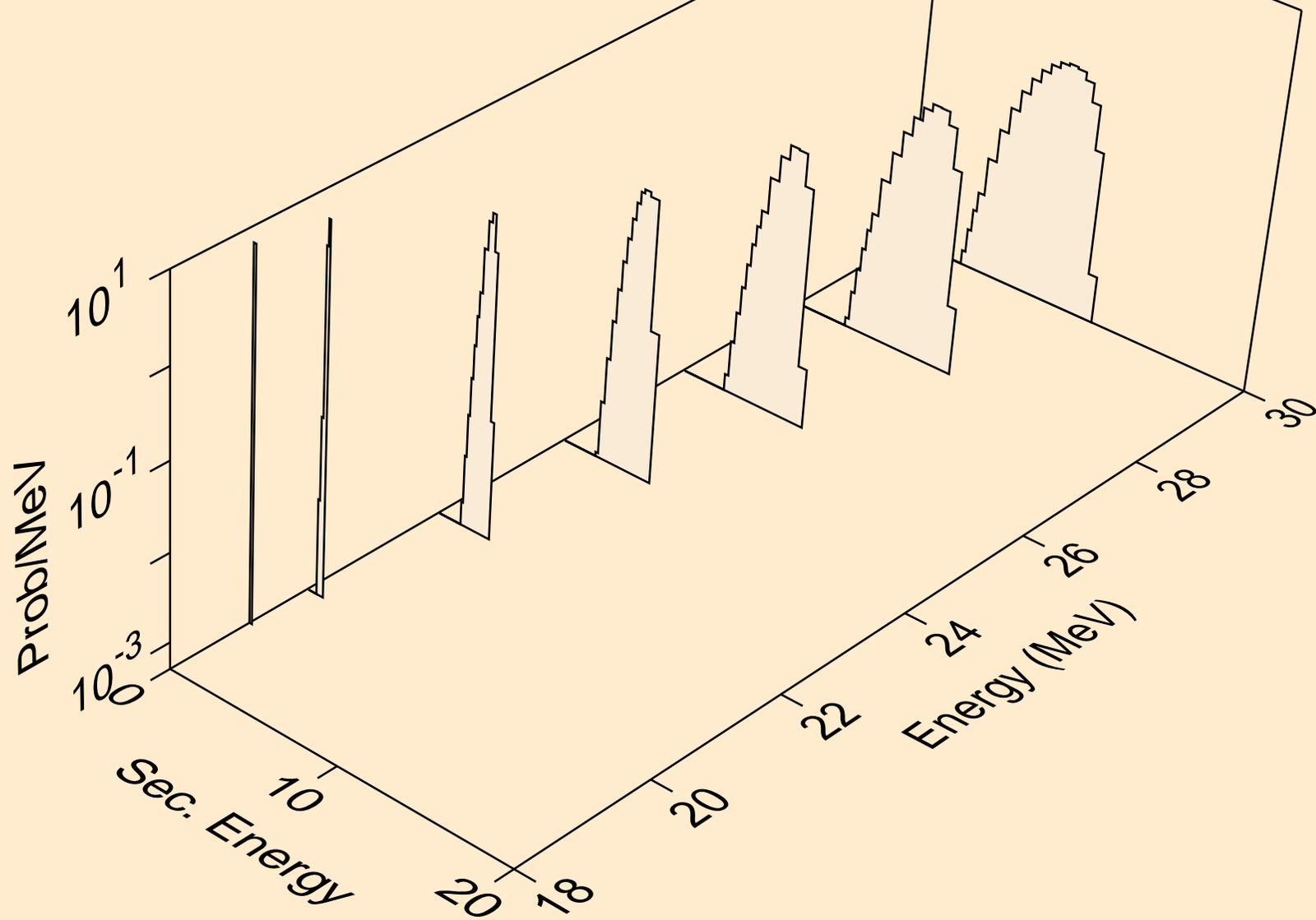Particle production cross sections

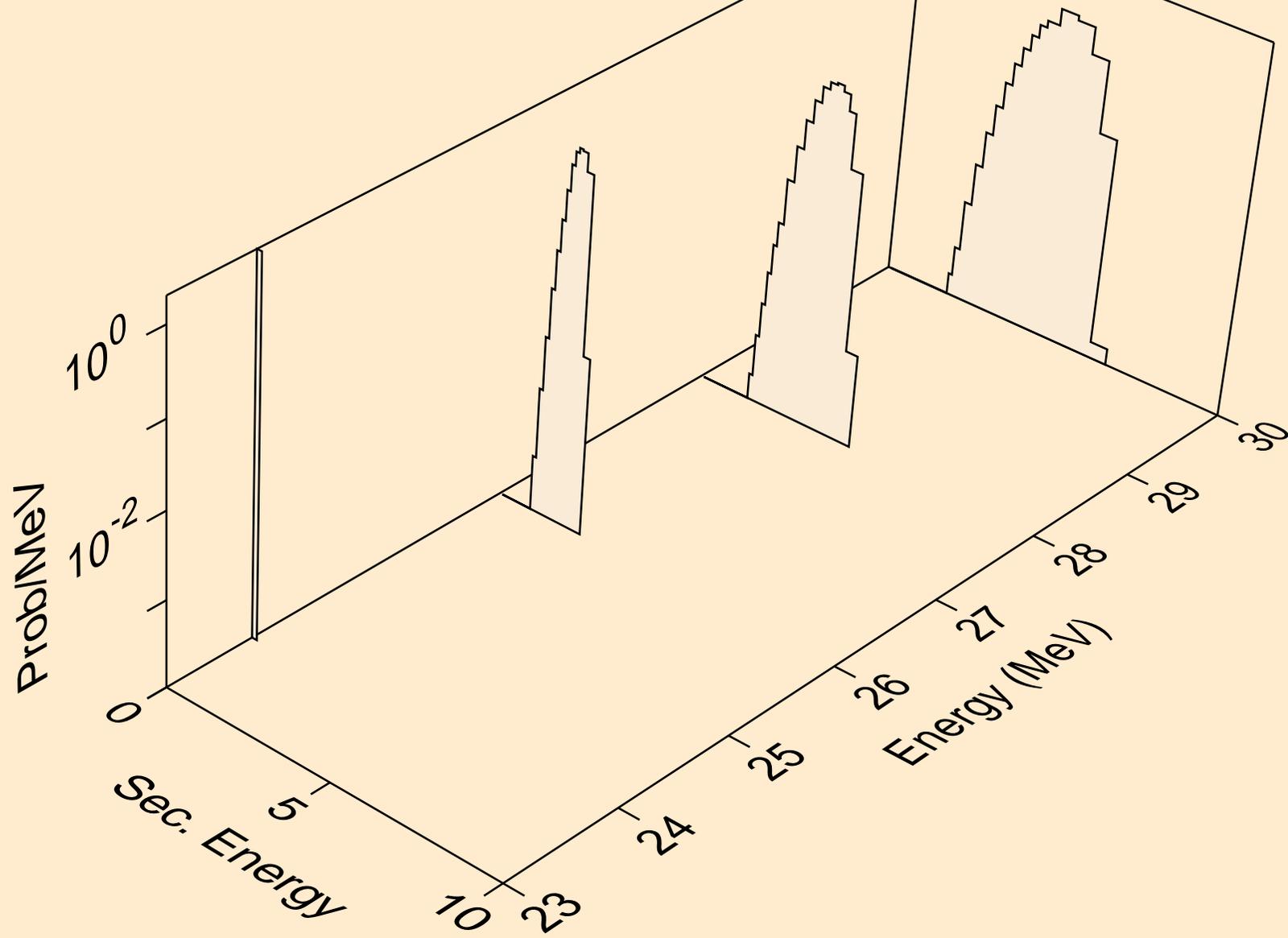IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
protons from (n,x)

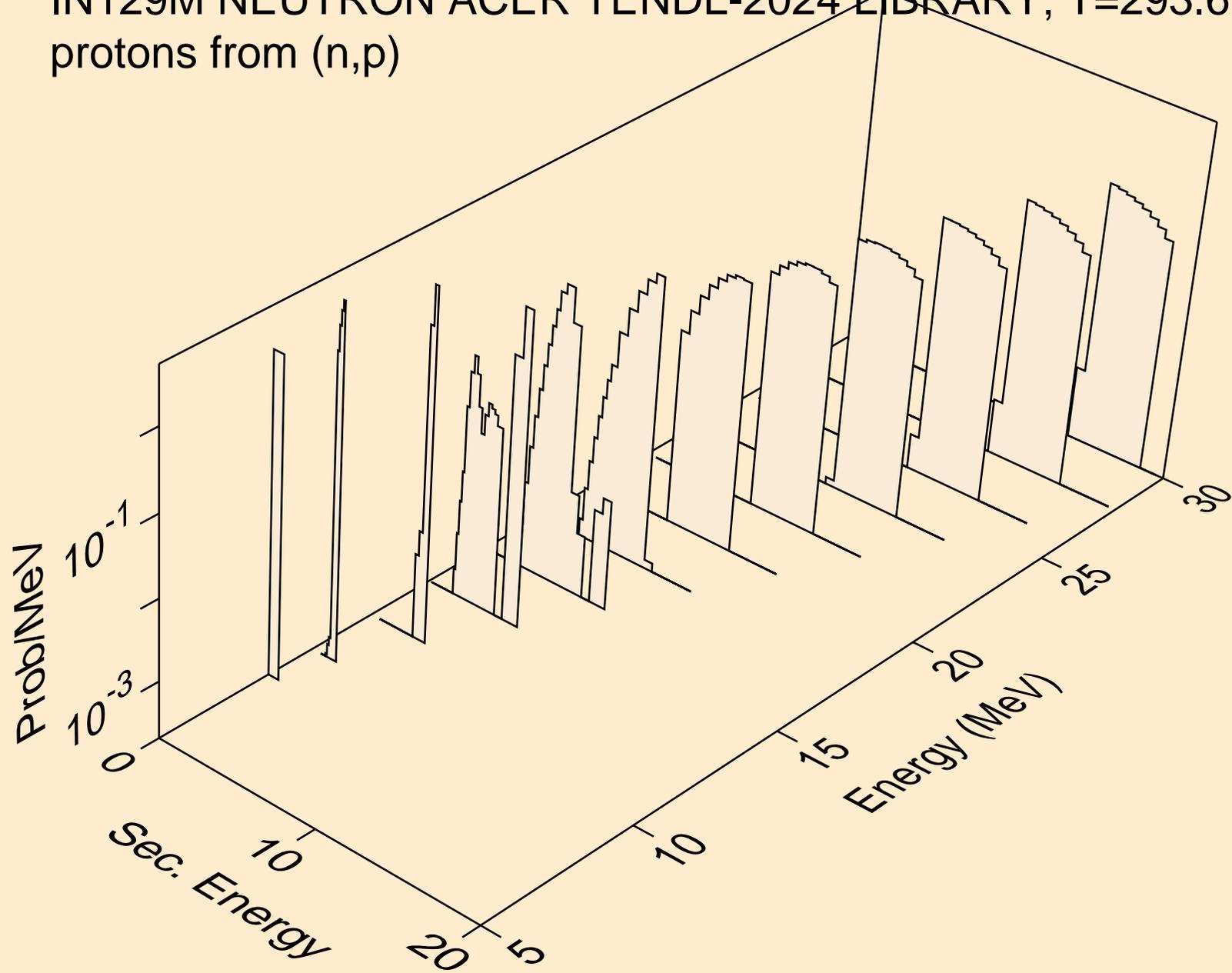IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
protons from (n,n*)p

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
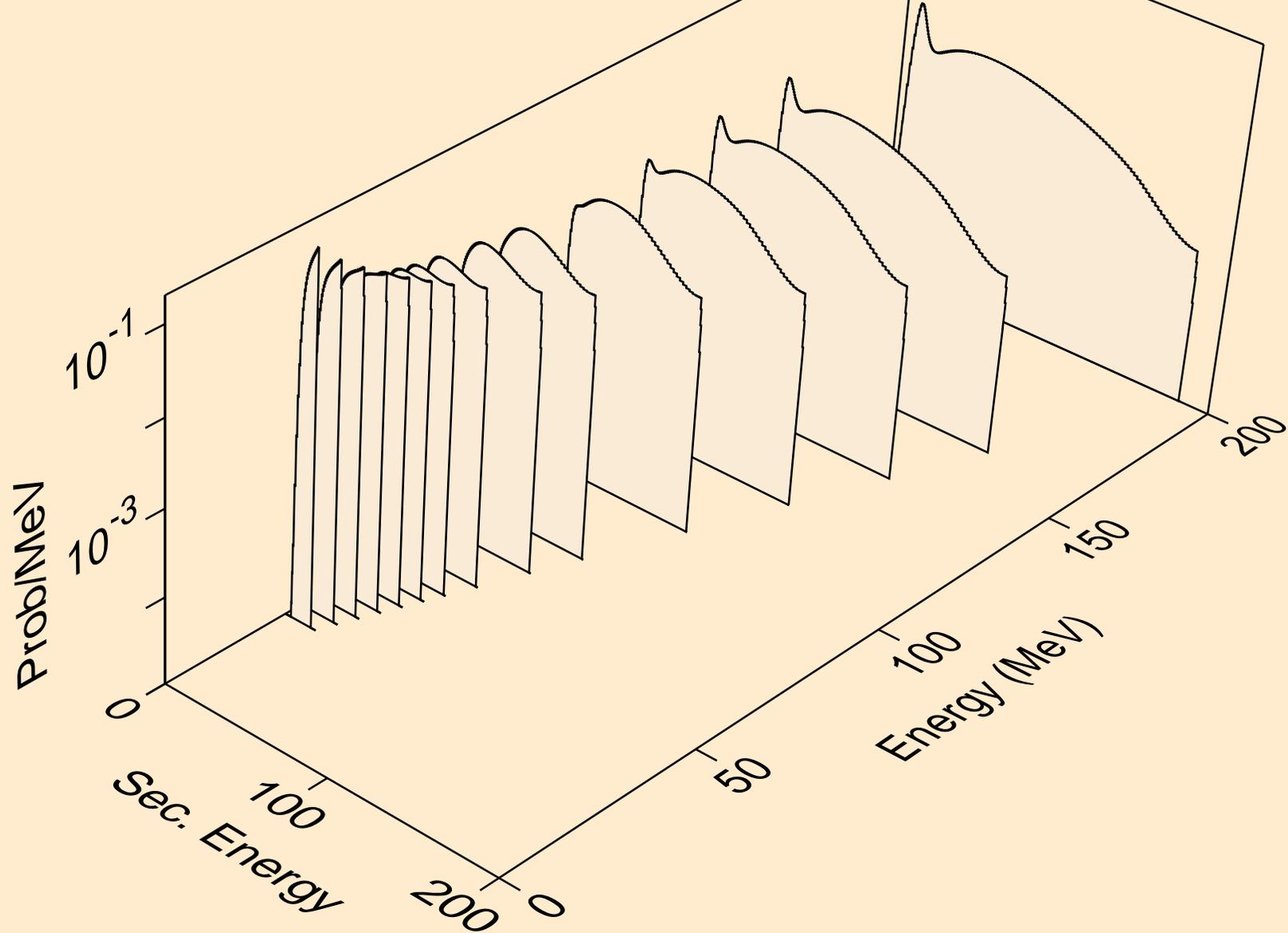protons from (n,2np)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
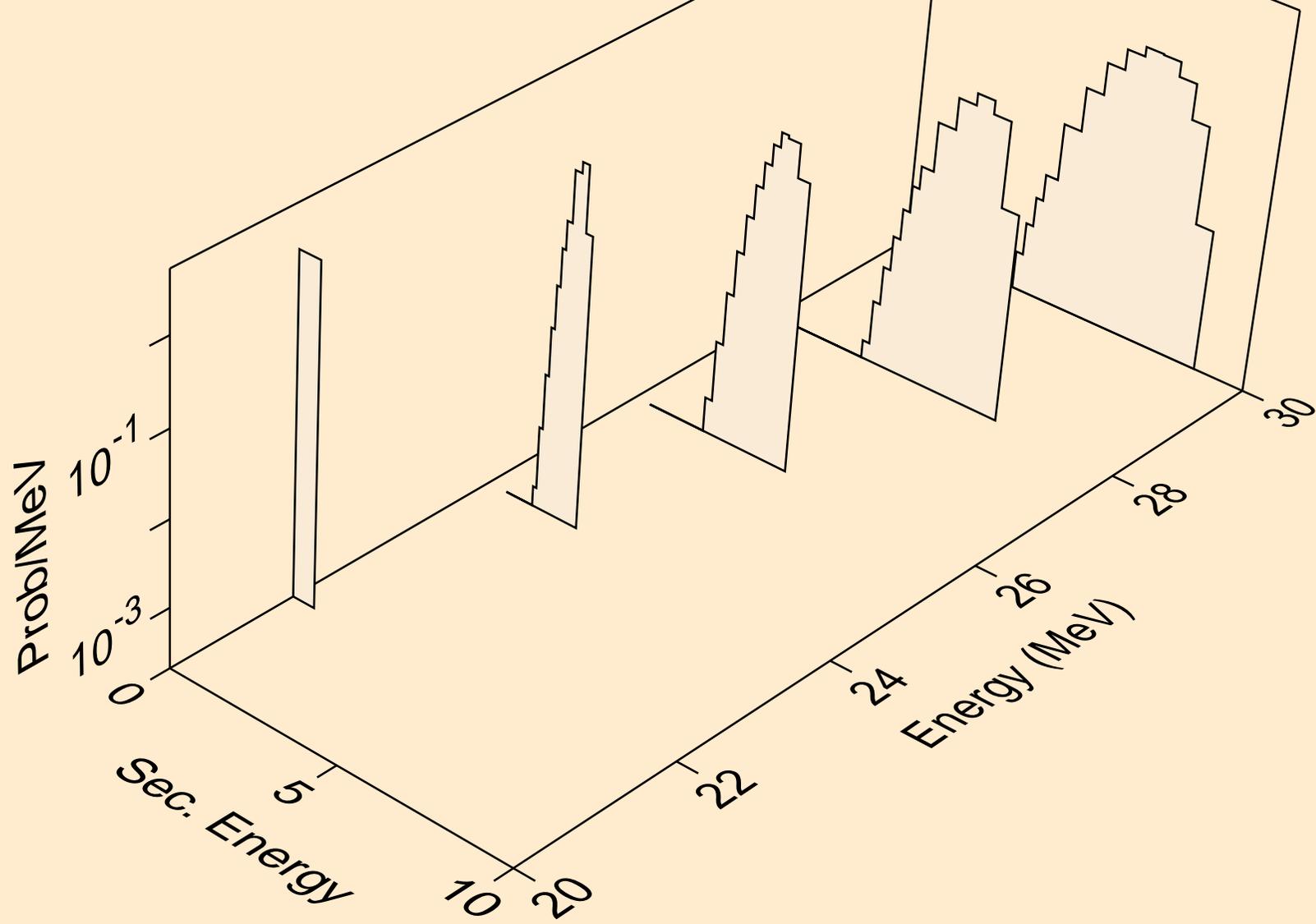protons from (n,3np)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
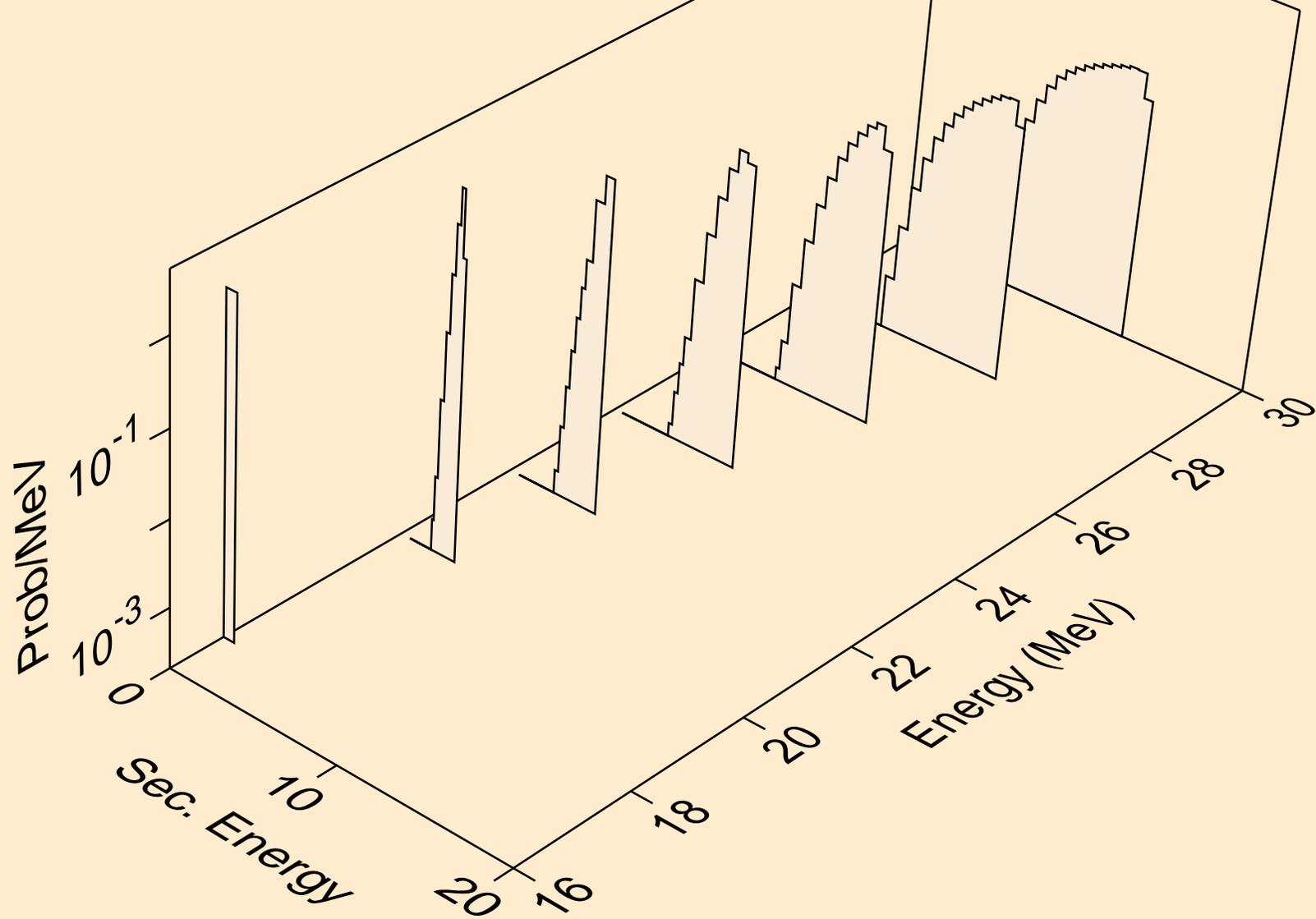protons from (n,p)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
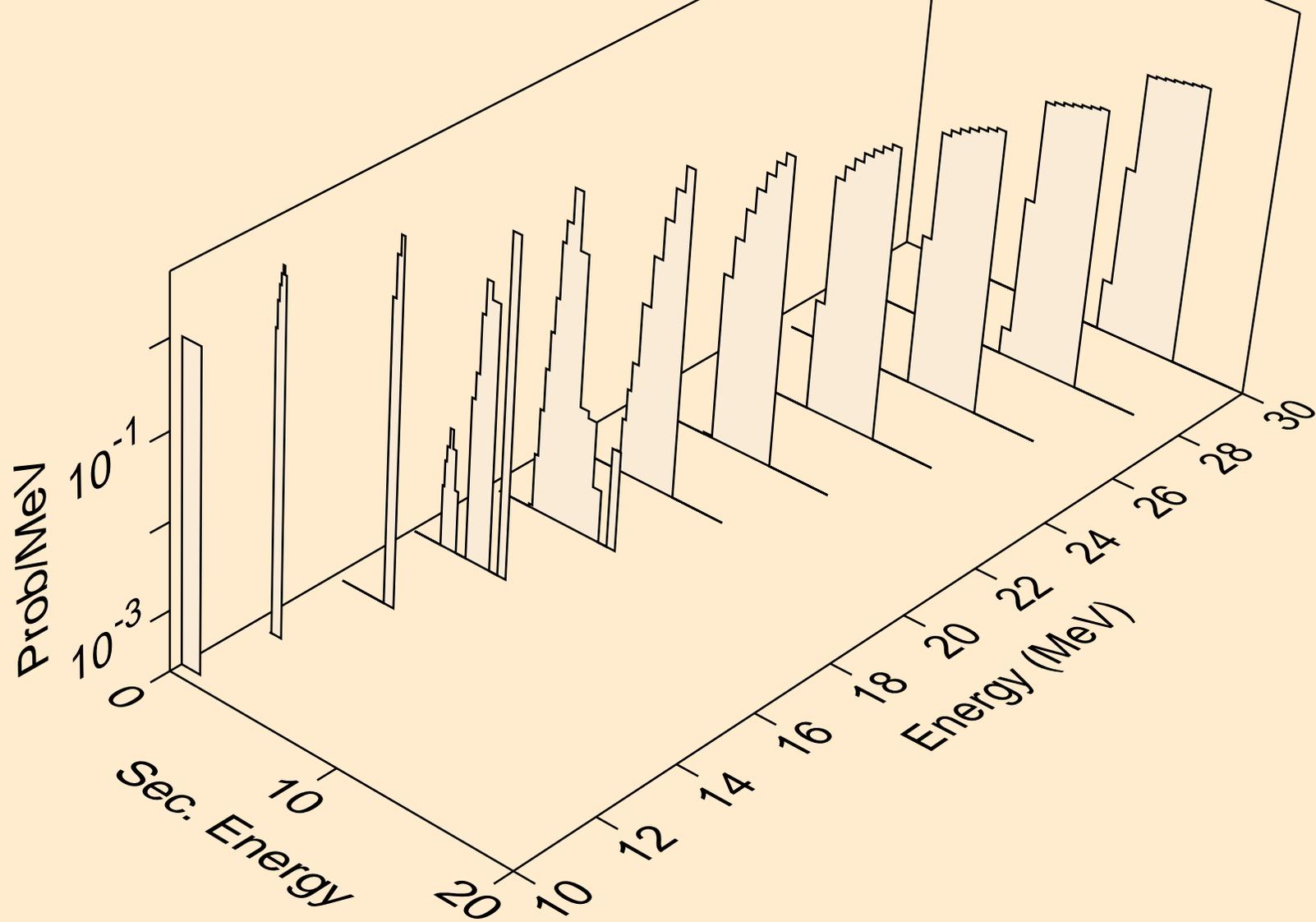deuterons from (n,x)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
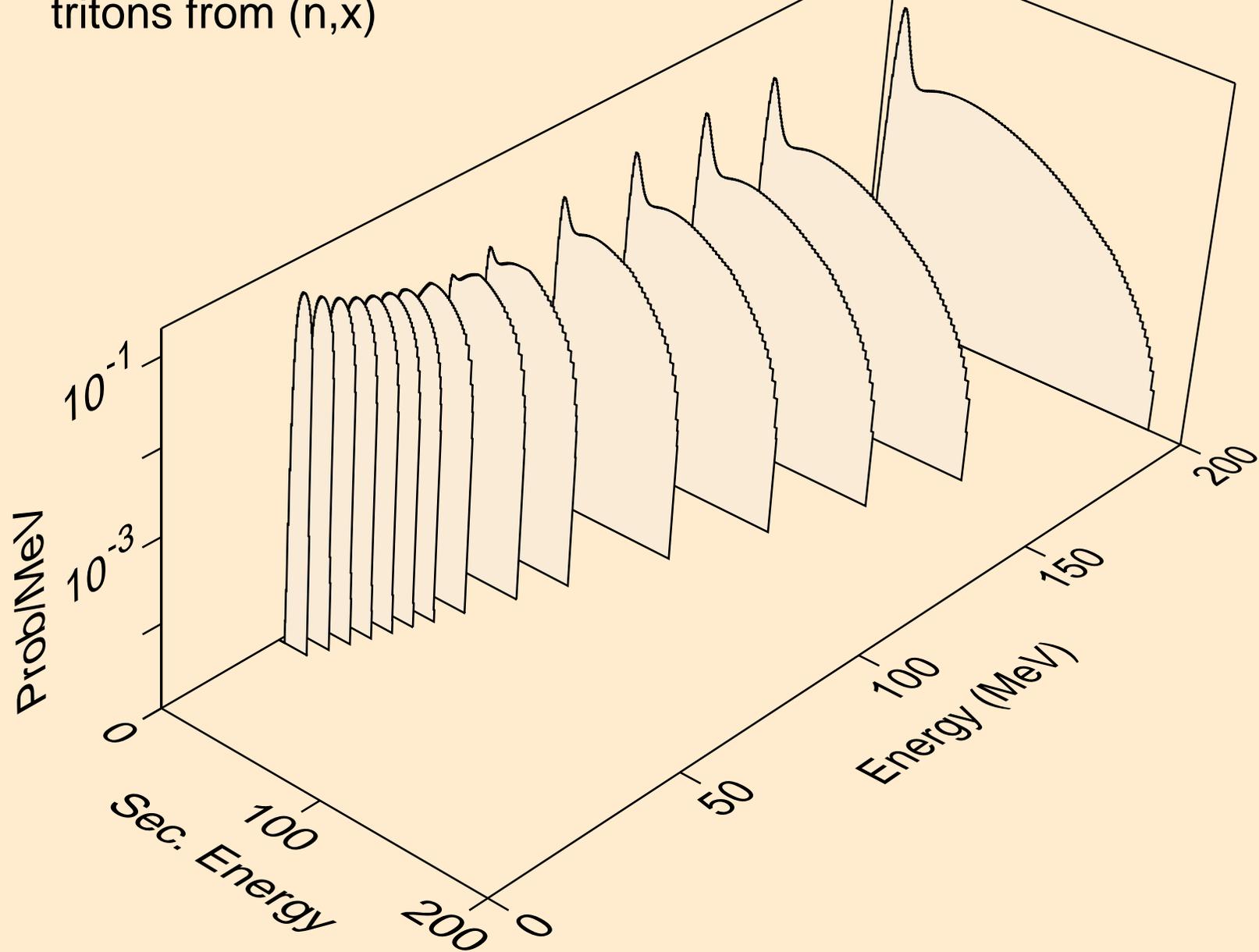deuterons from (n,2nd)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
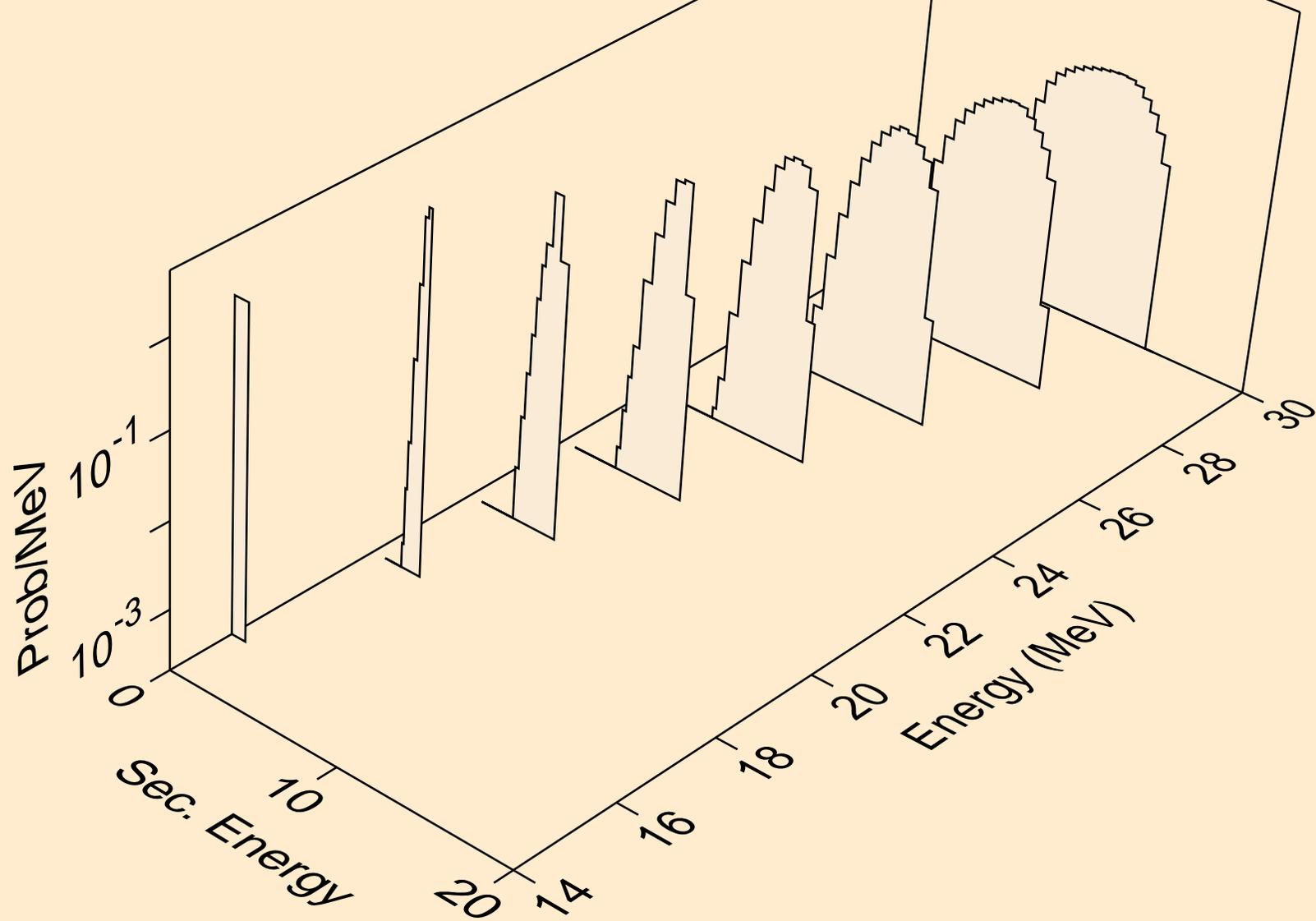deuterons from (n,n*)d

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
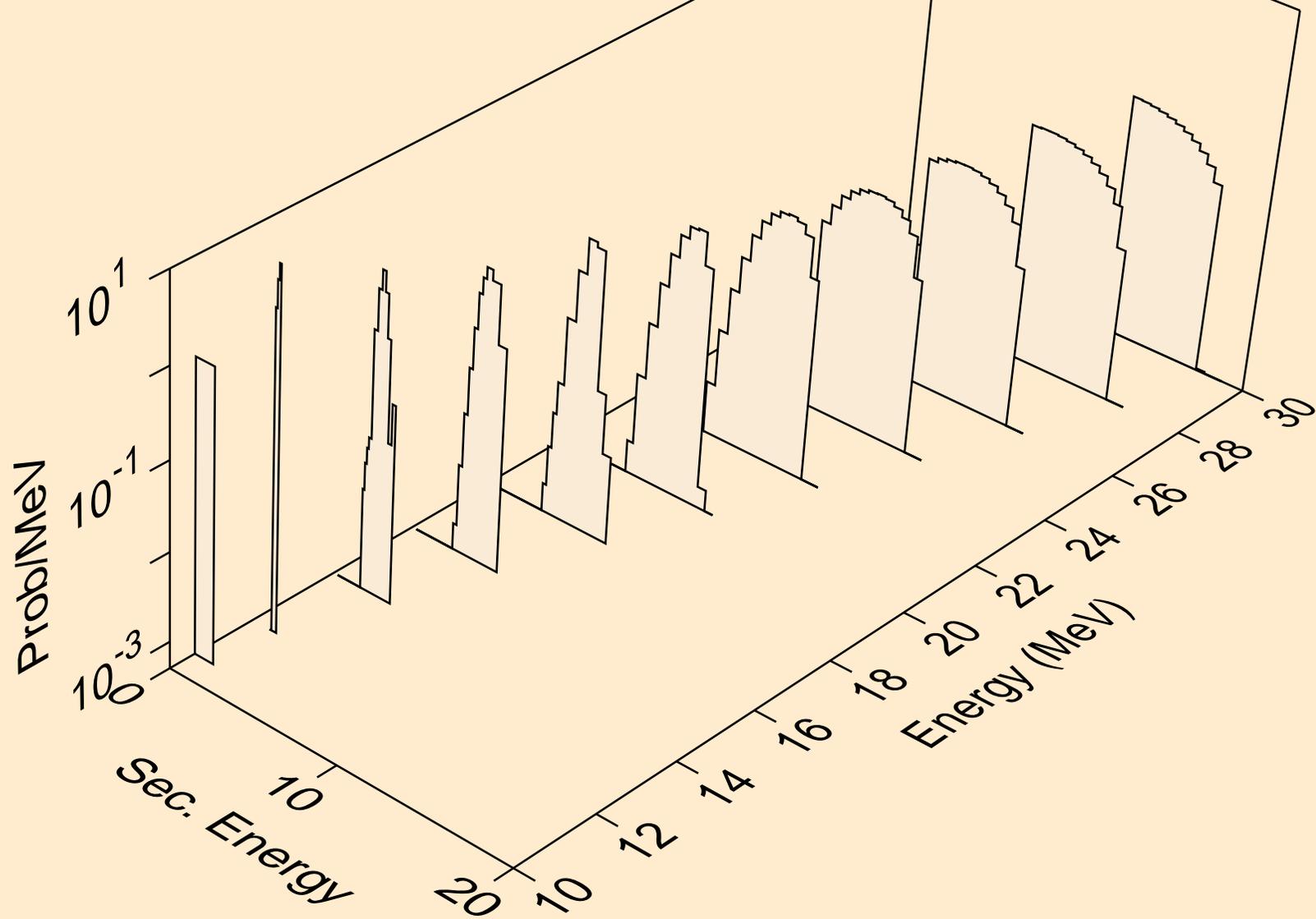deuterons from (n,d)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
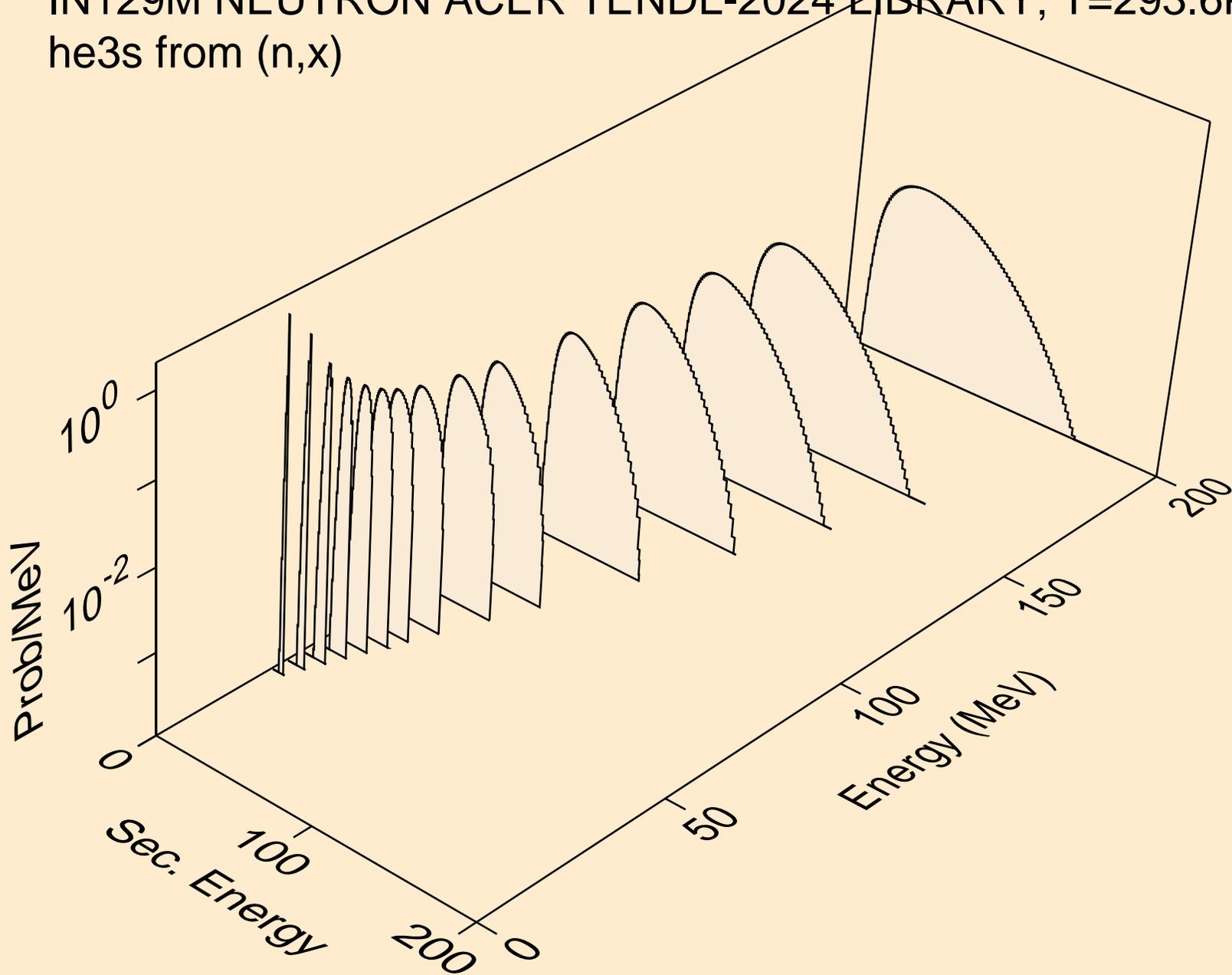tritons from (n,x)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
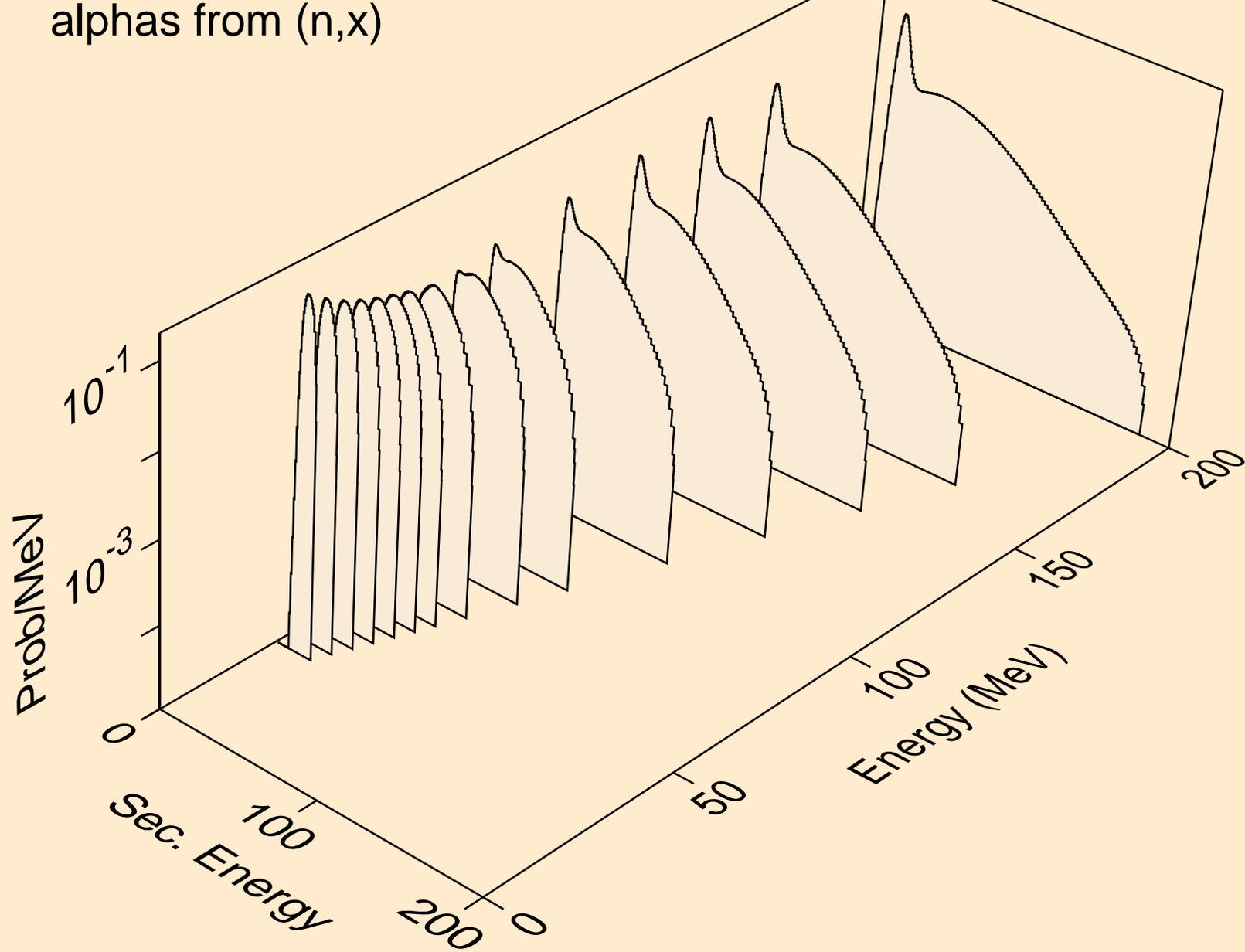tritons from (n,n*)t

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
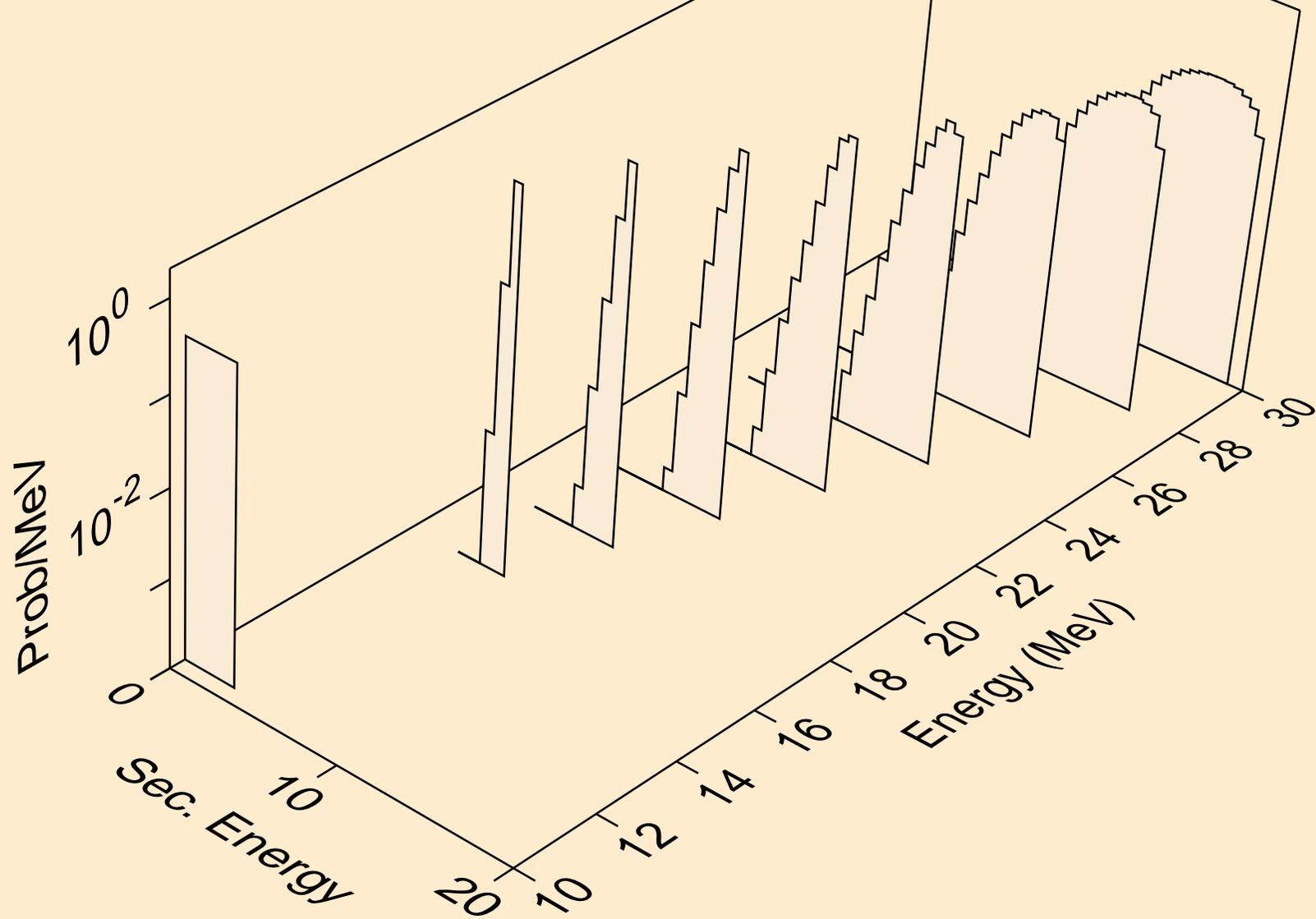tritons from (n,t)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
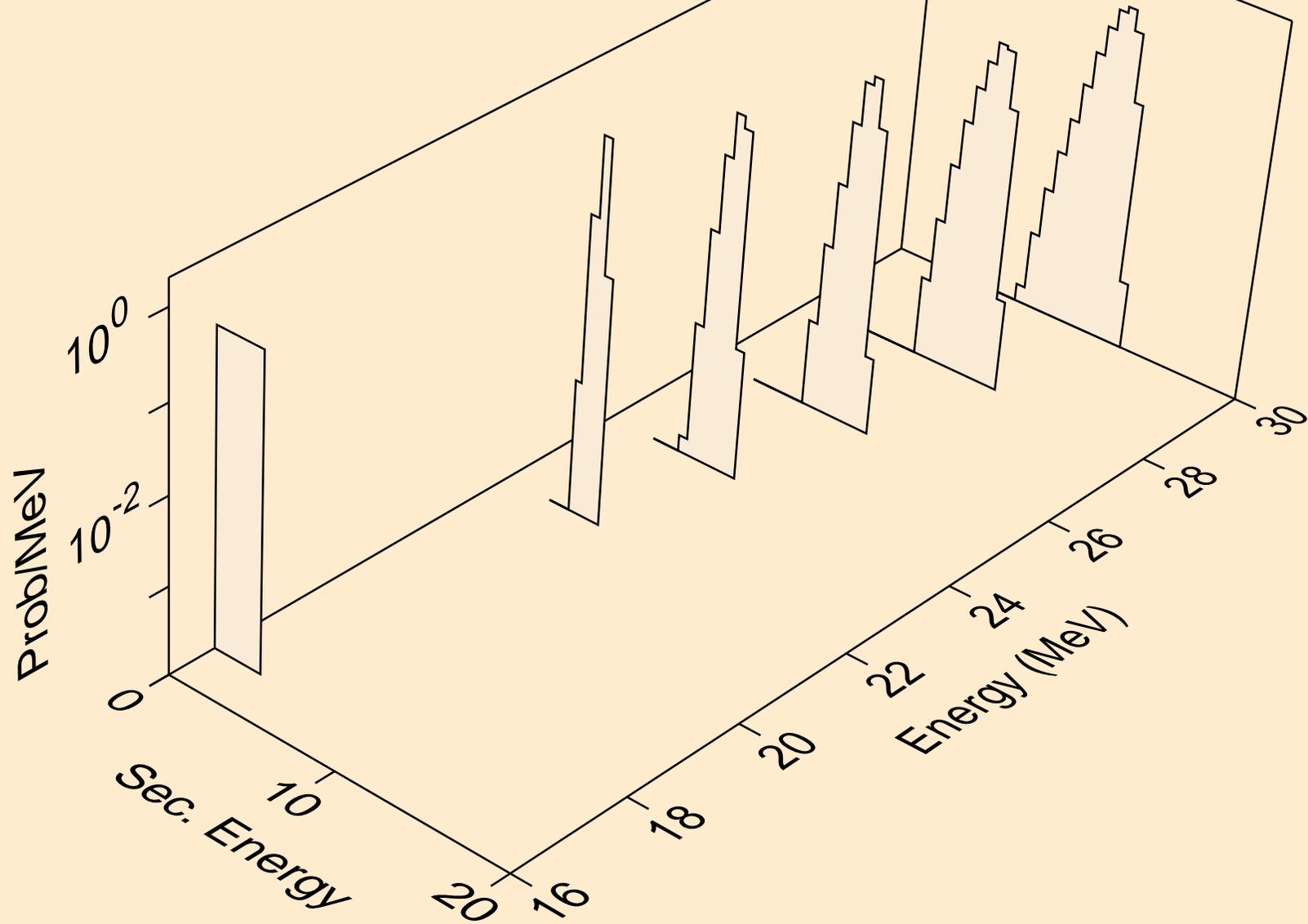he3s from (n,x)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
alphas from (n,x)

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
alphas from (n,n*)a

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
alphas from (n,2n)a

IN129M NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
alphas from (n,a)