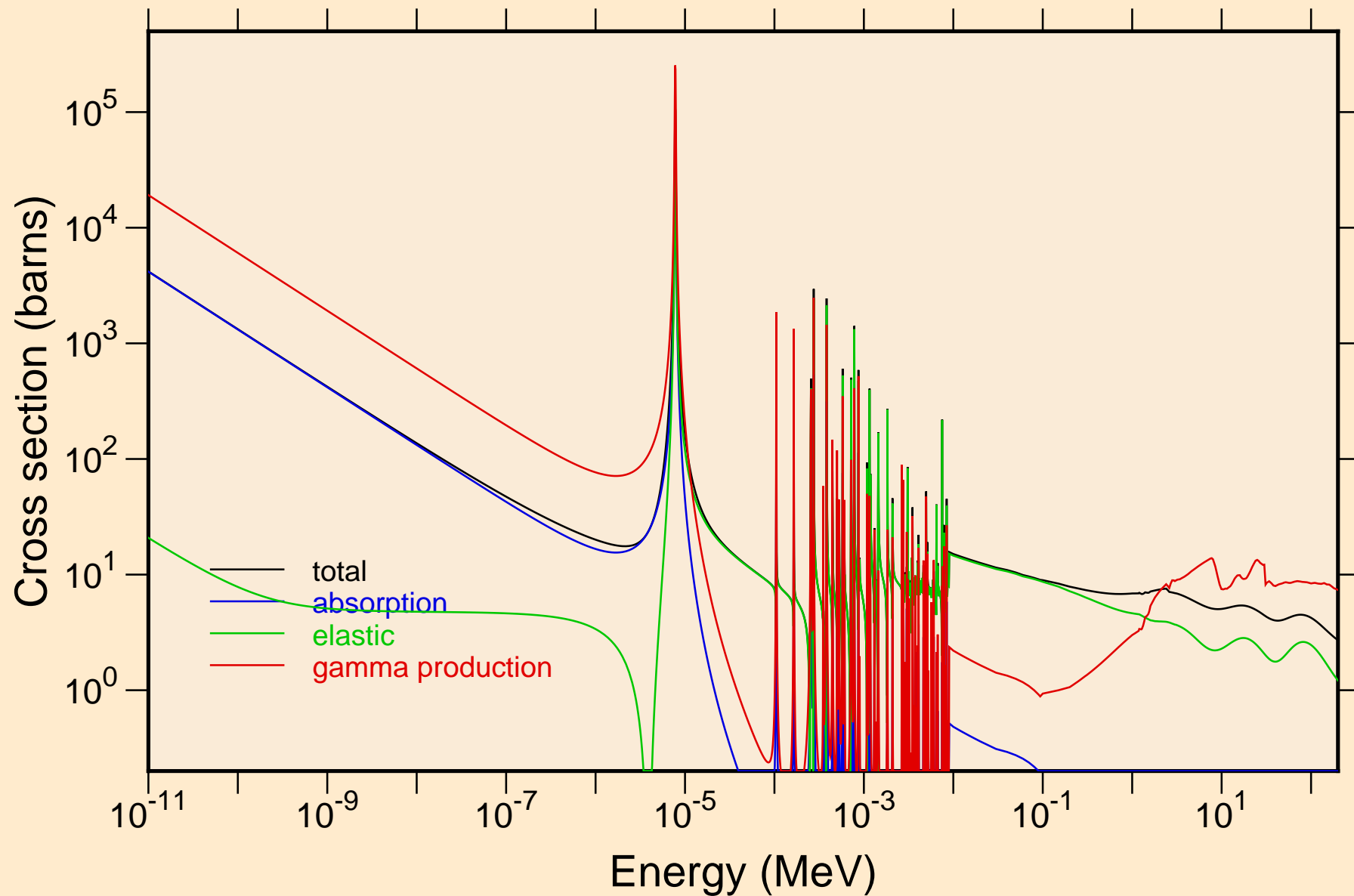
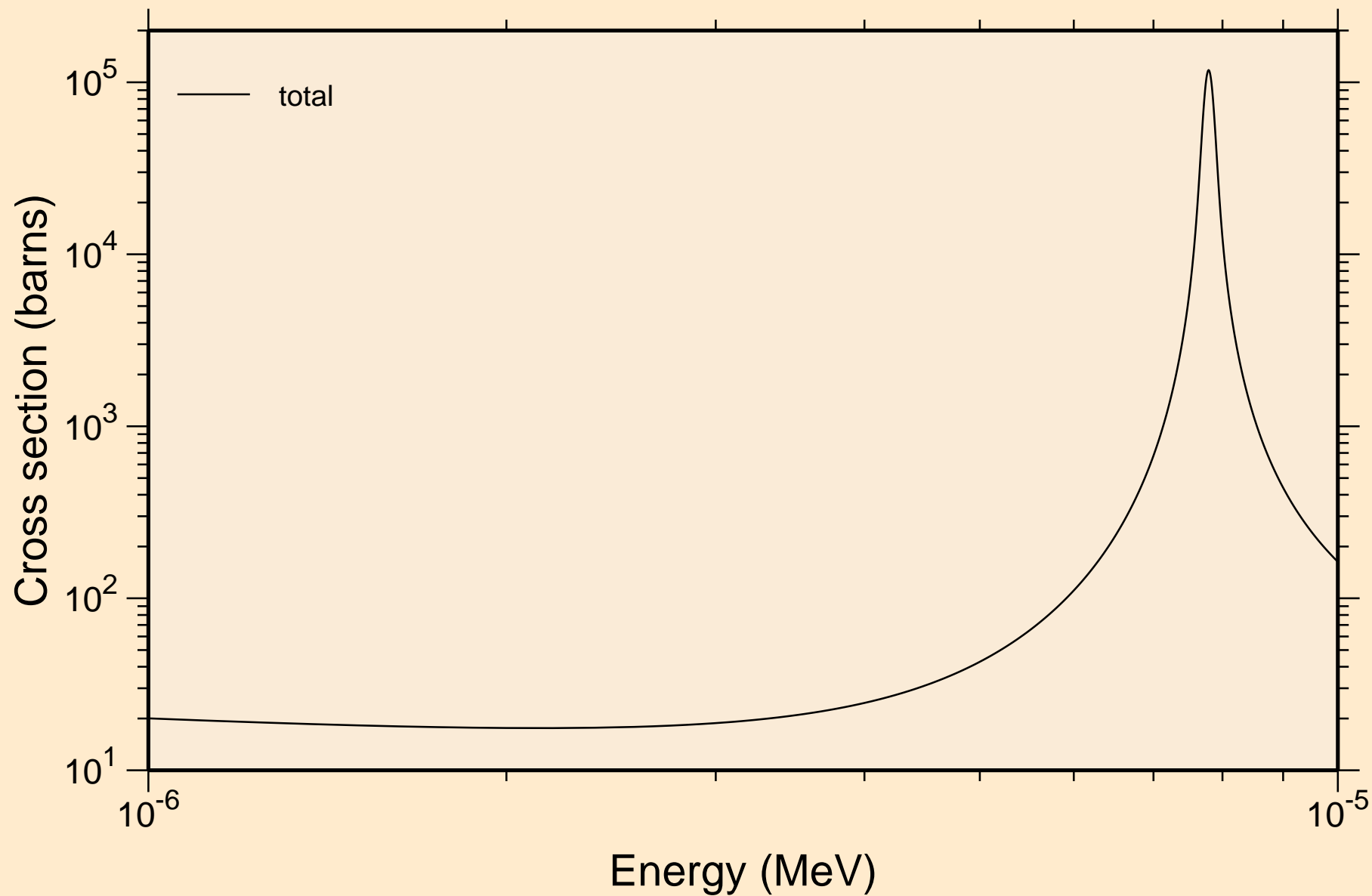


HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

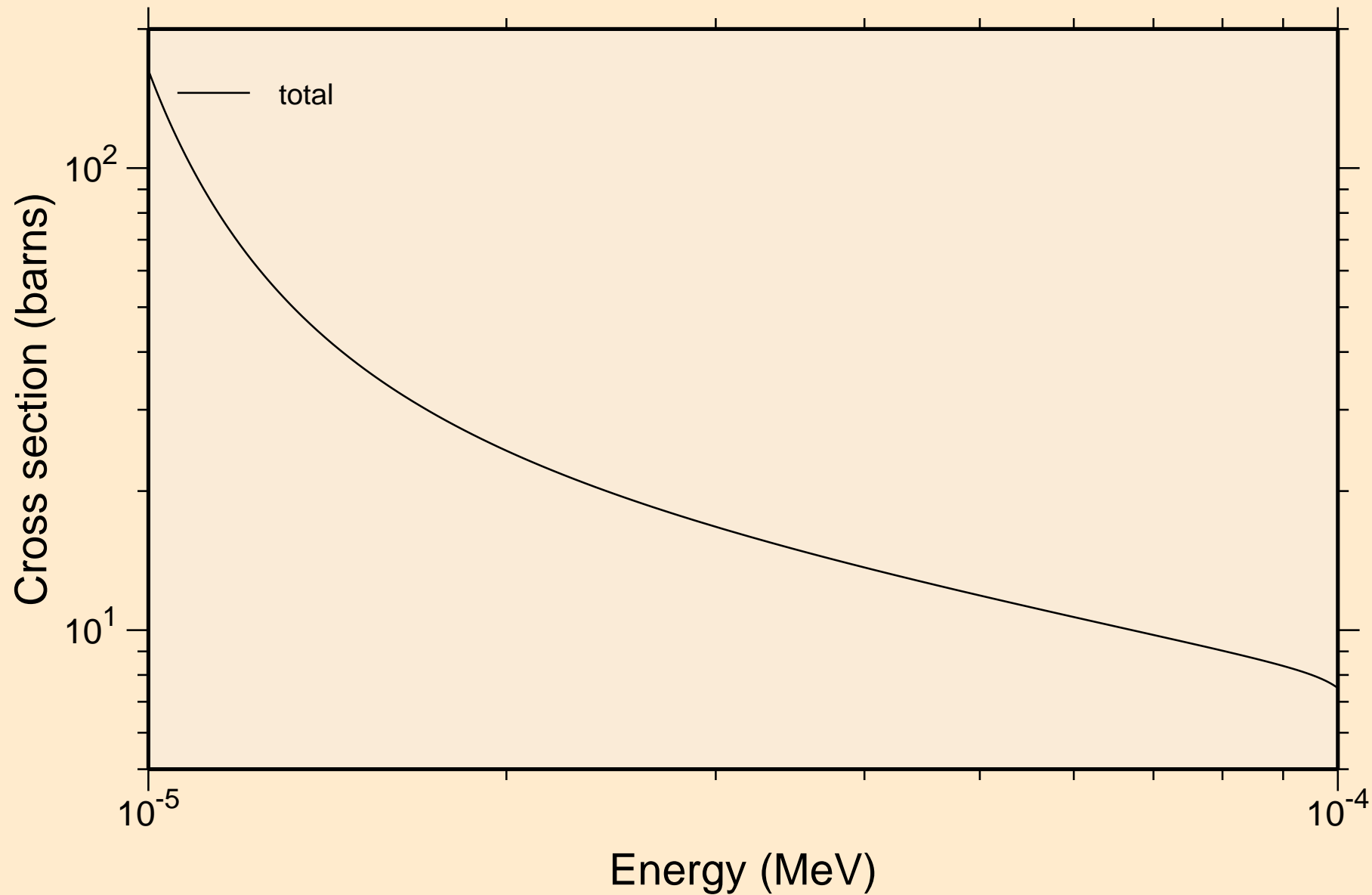
Principal cross sections



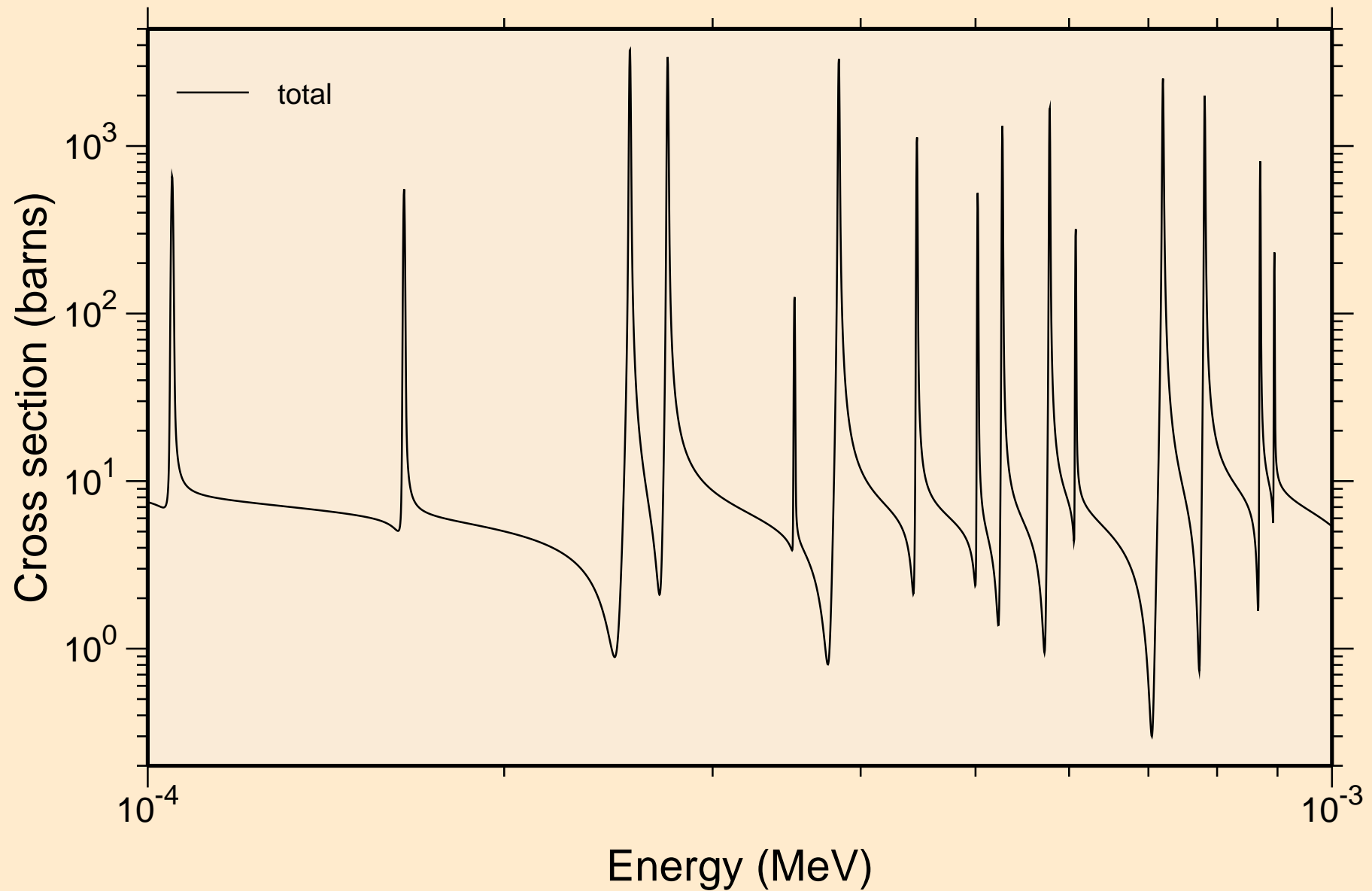
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
resonance total cross section



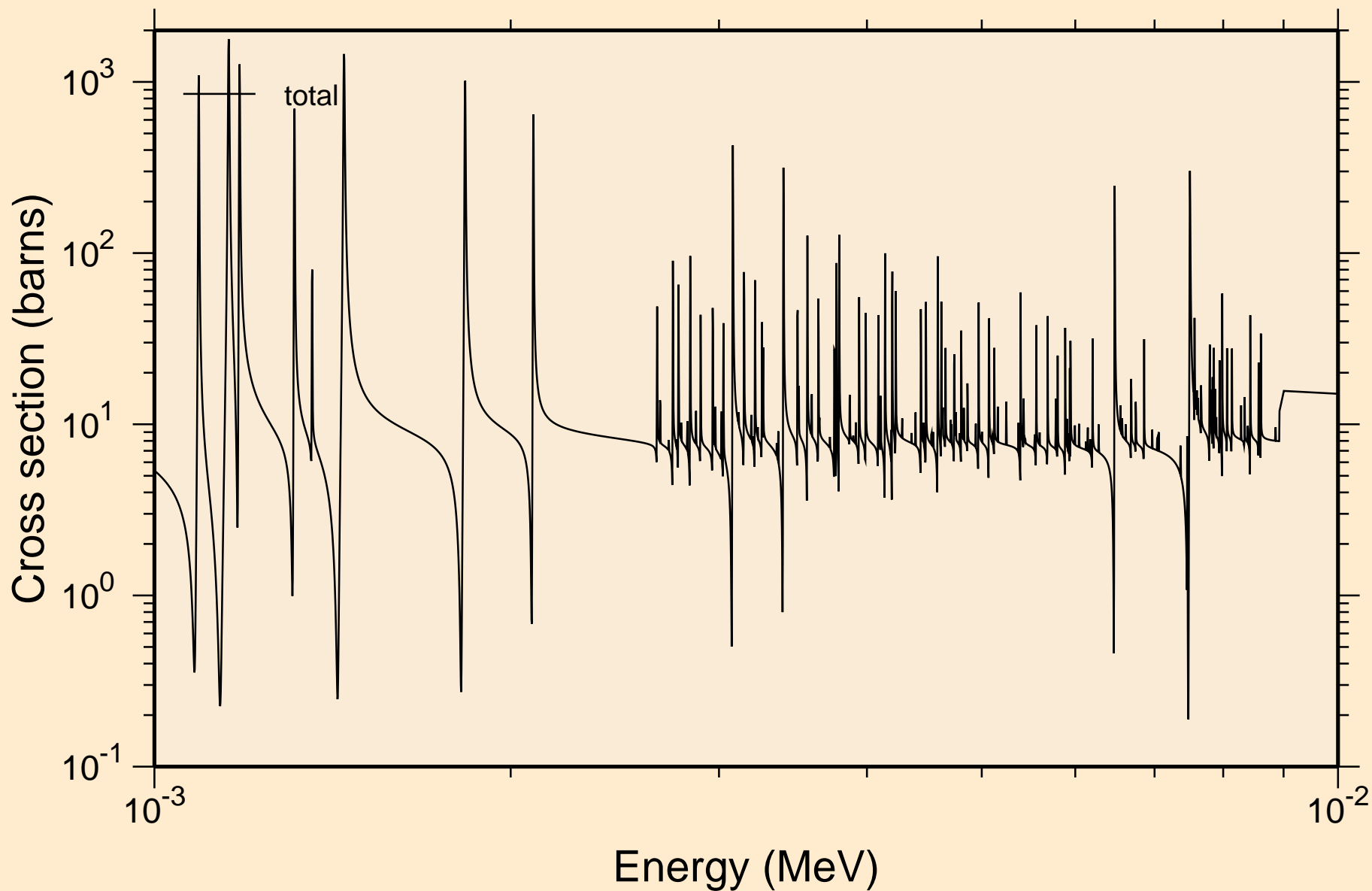
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
resonance total cross section



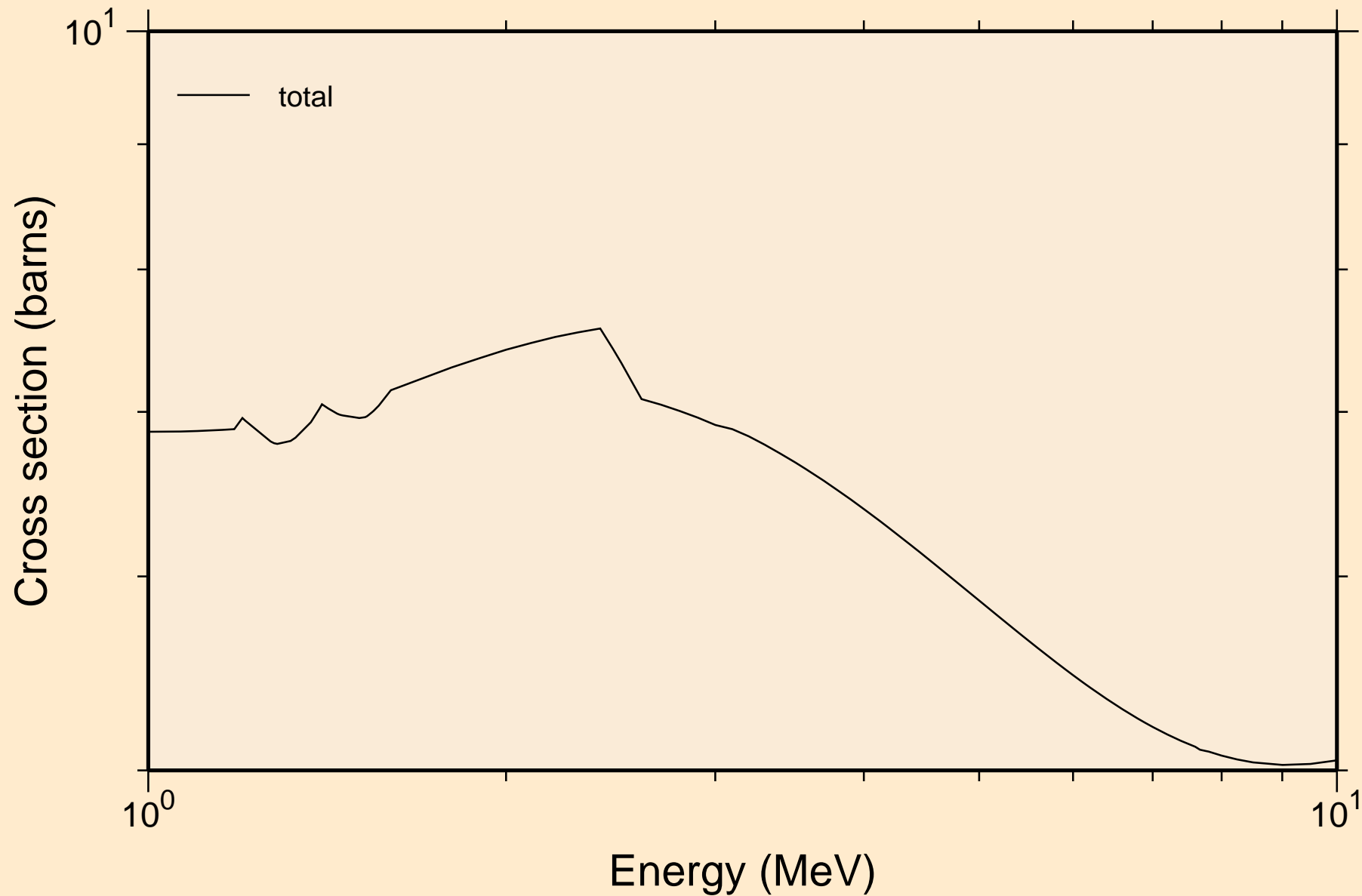
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
resonance total cross section



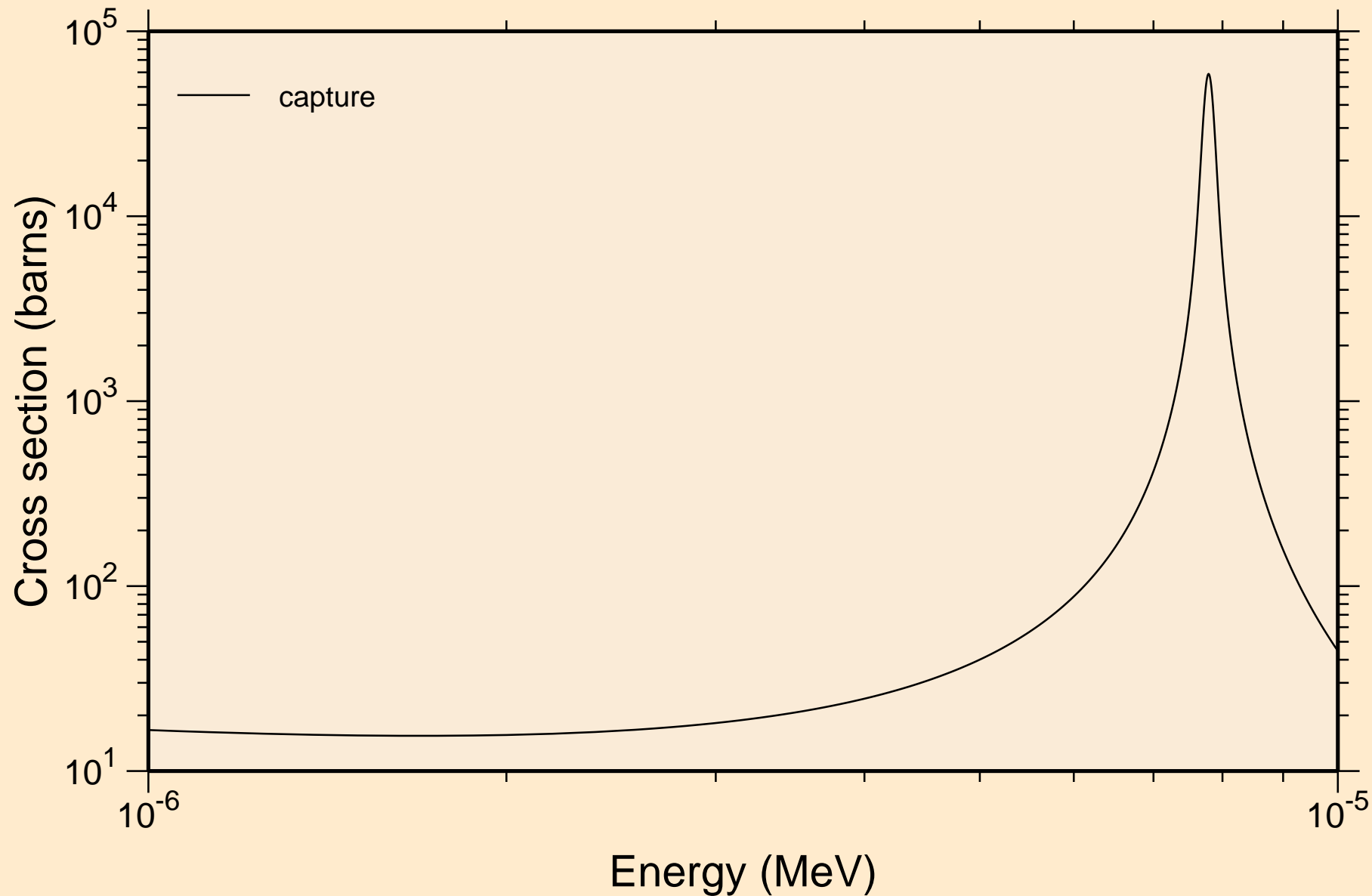
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
resonance total cross section



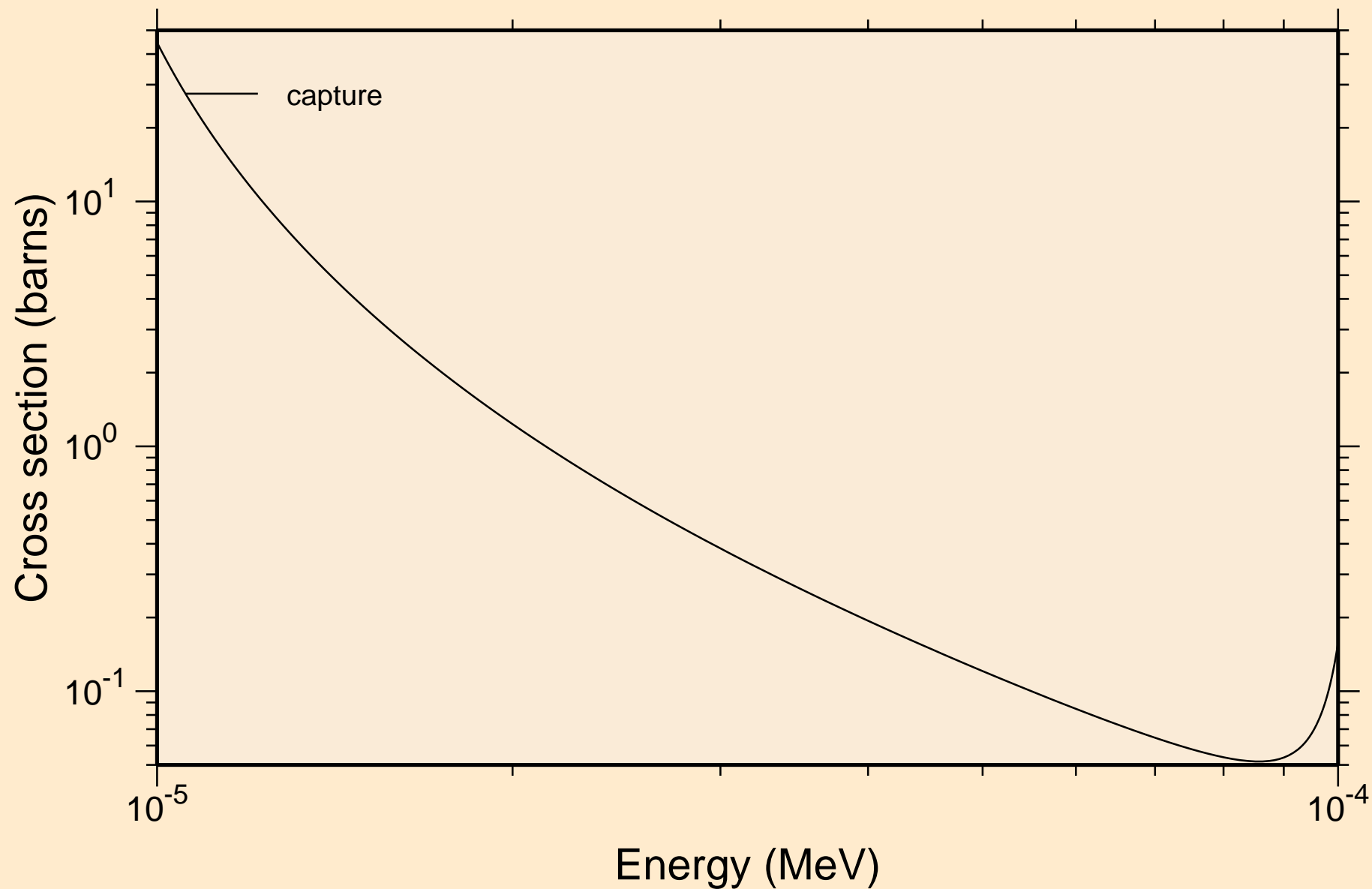
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
resonance total cross section



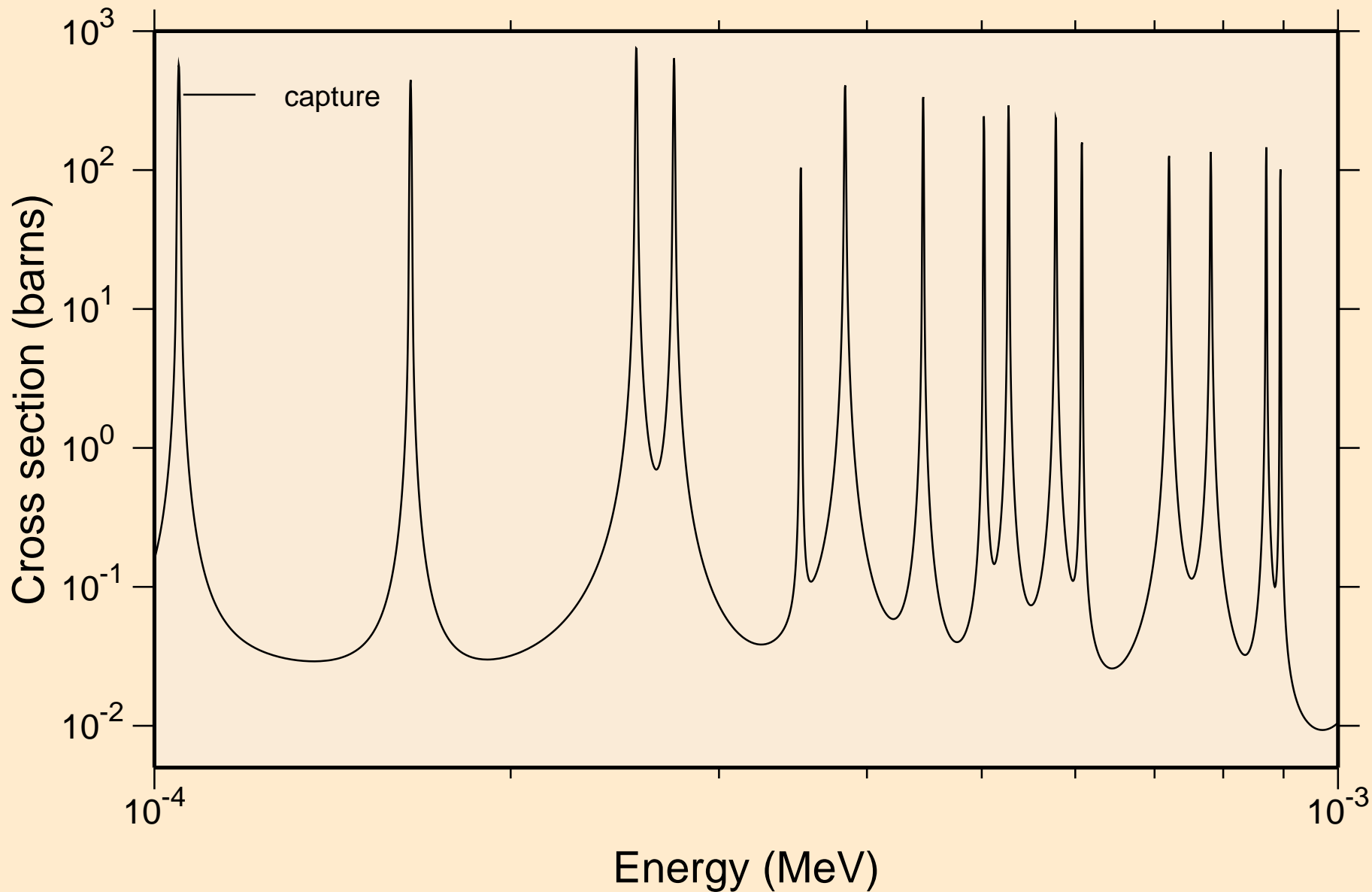
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
resonance absorption cross sections



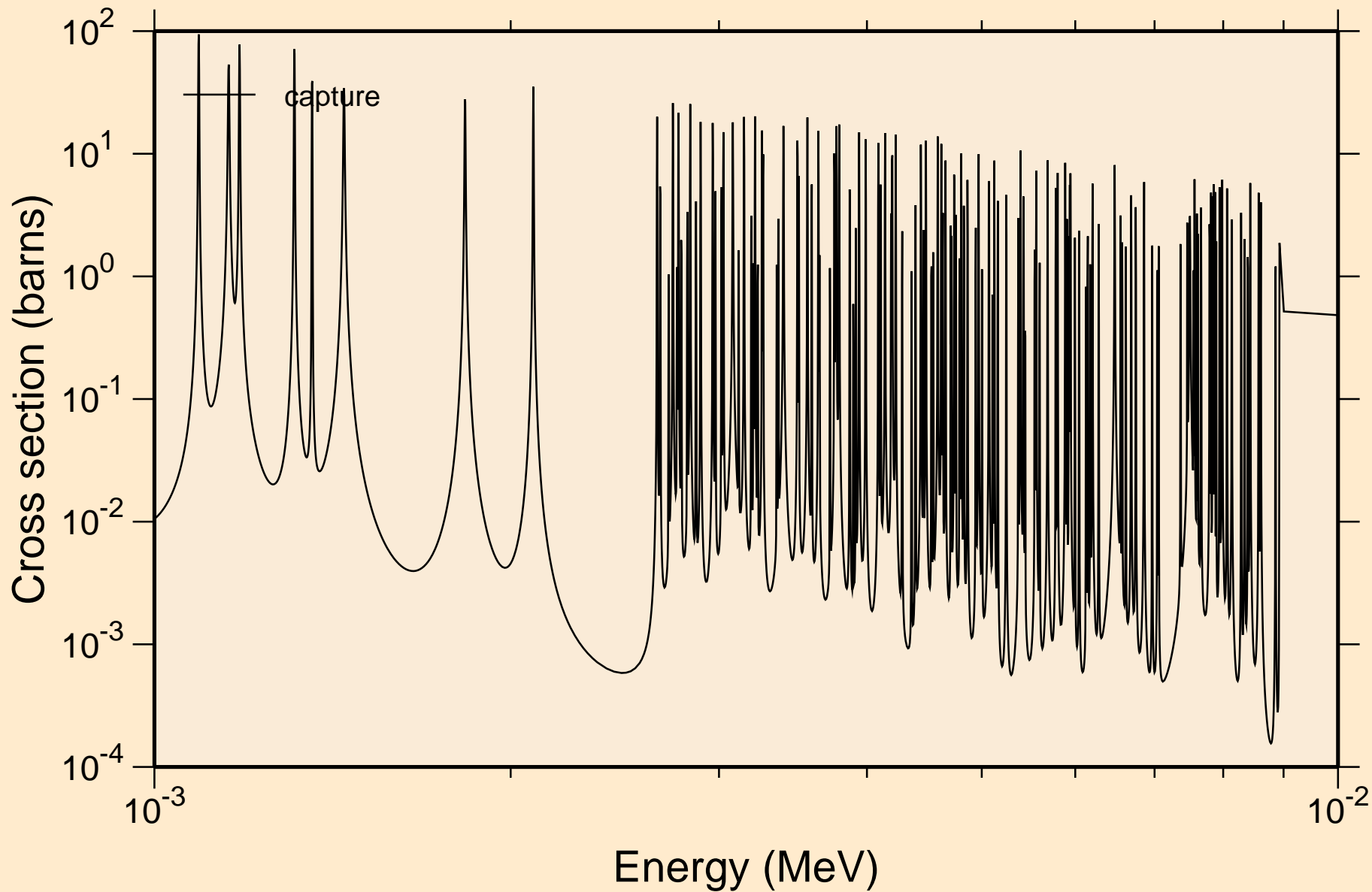
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
resonance absorption cross sections



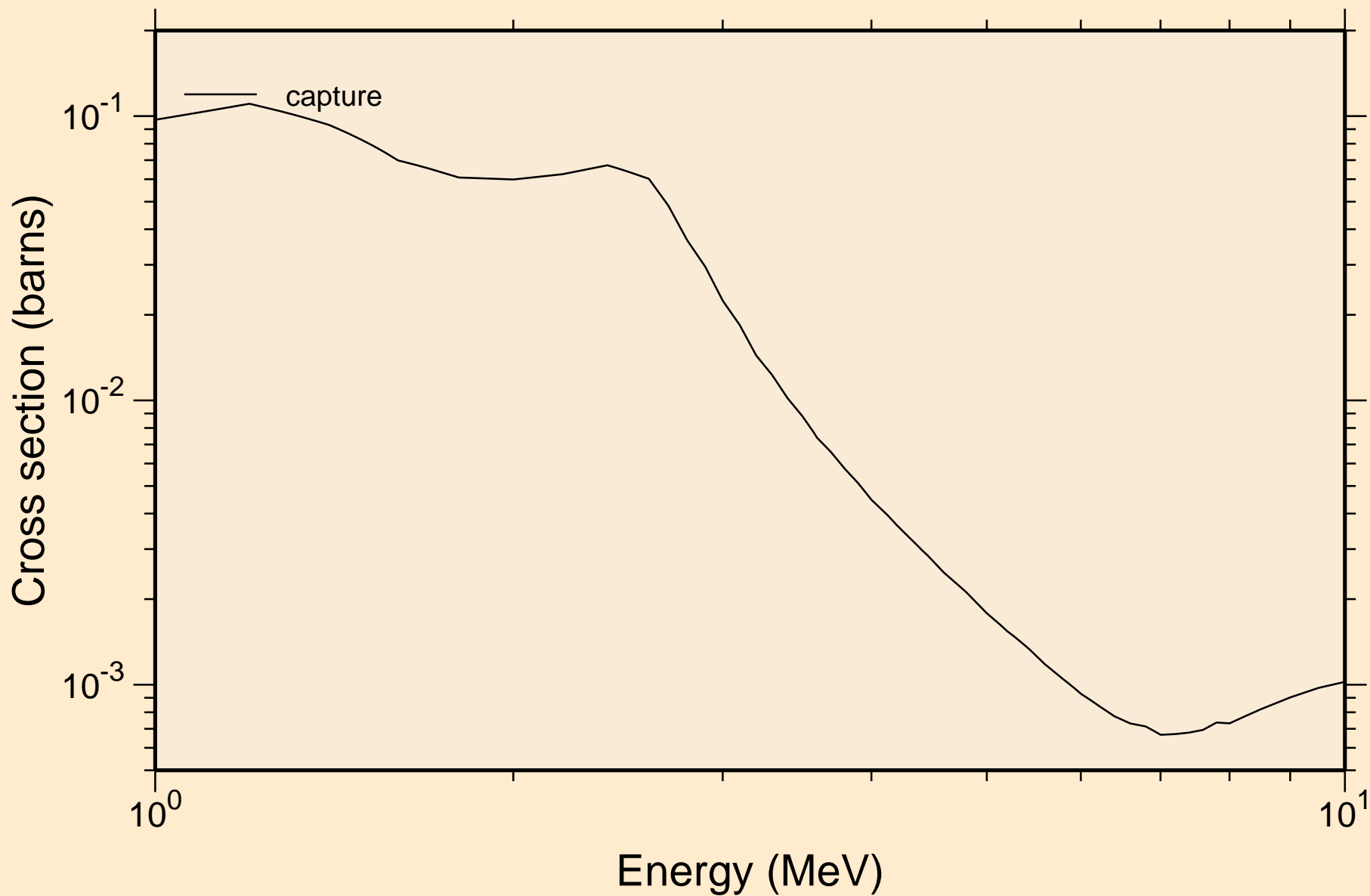
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
resonance absorption cross sections



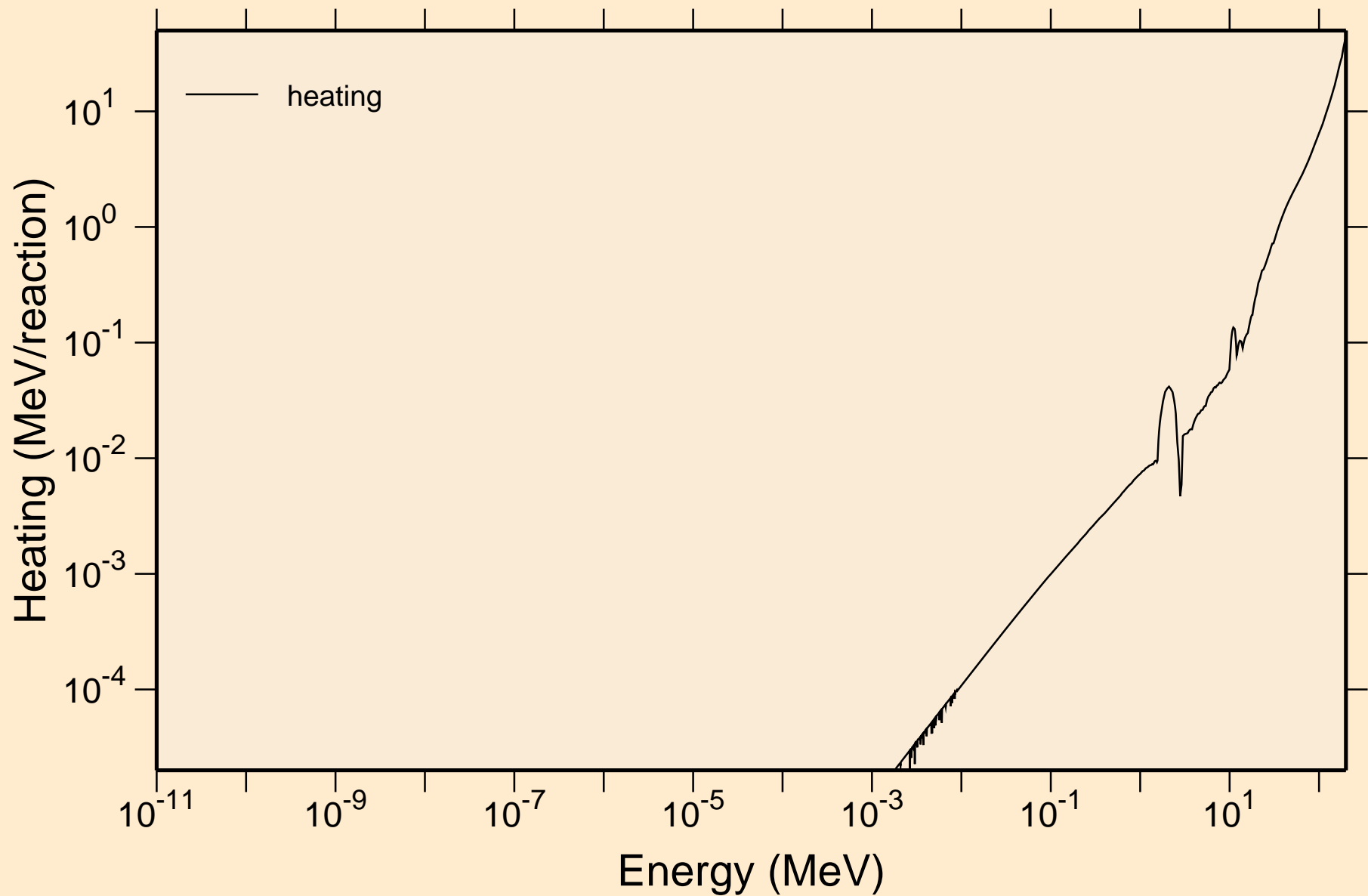
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
resonance absorption cross sections



HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
resonance absorption cross sections

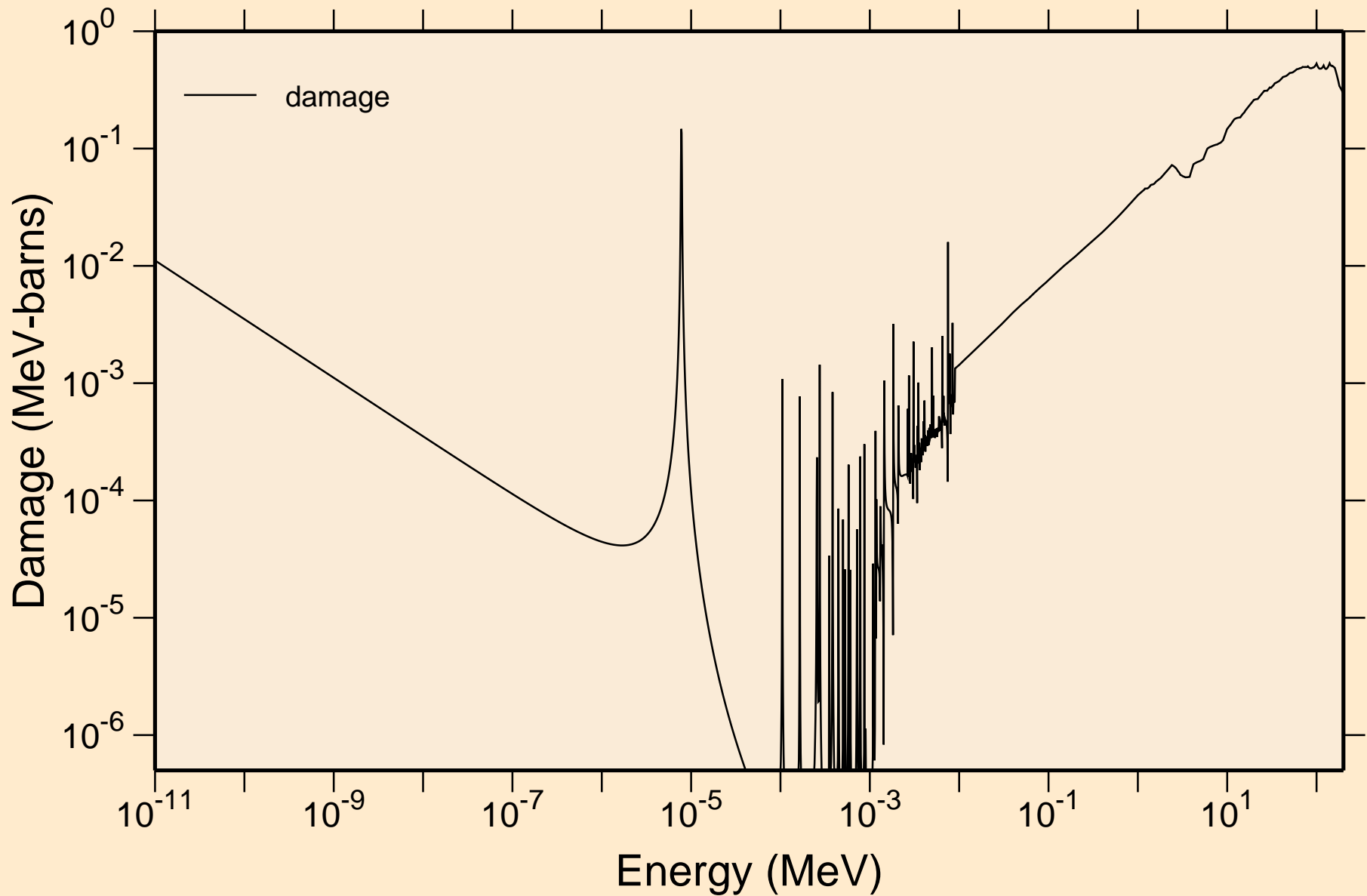


HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Heating



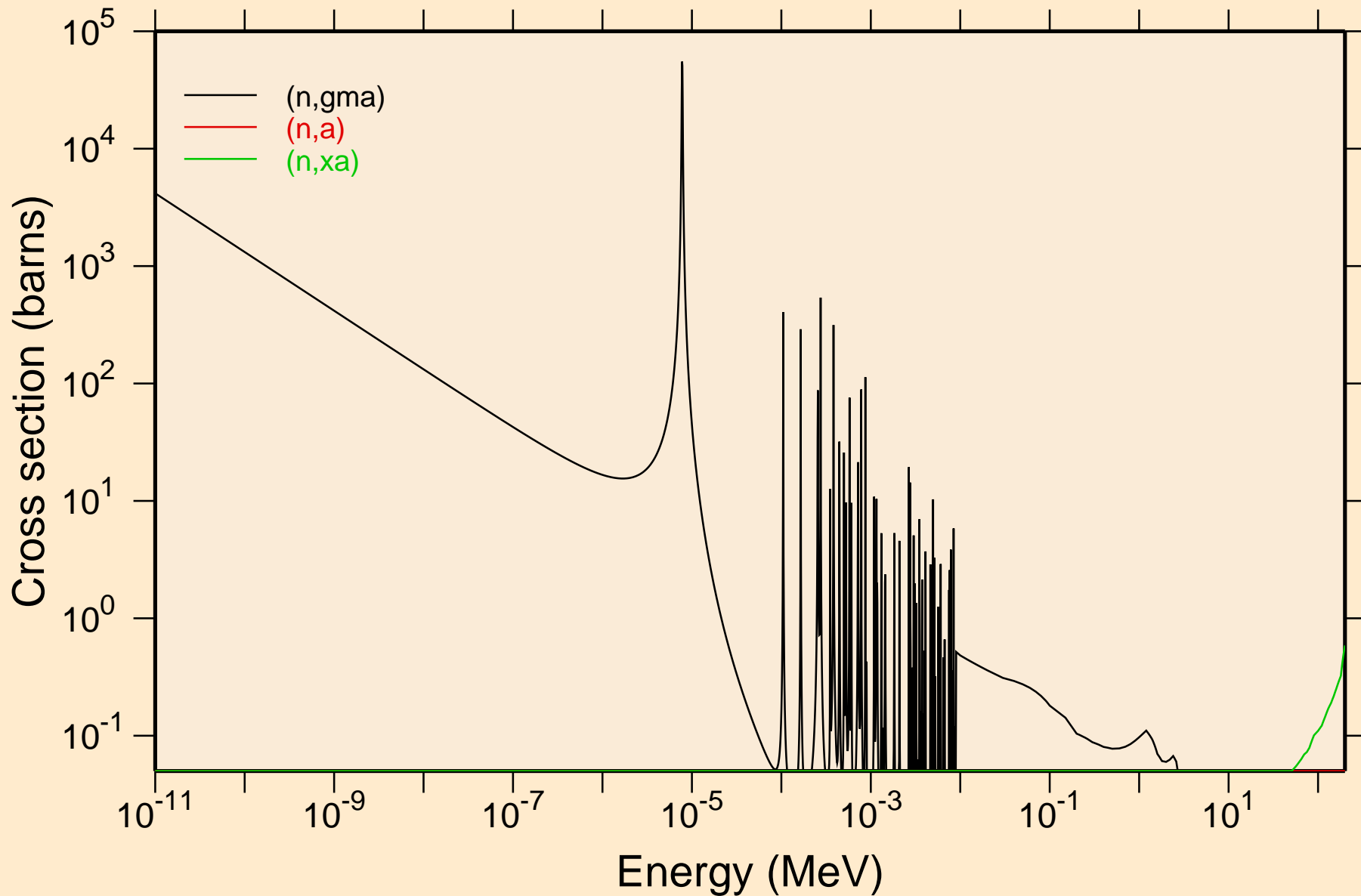
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

Damage



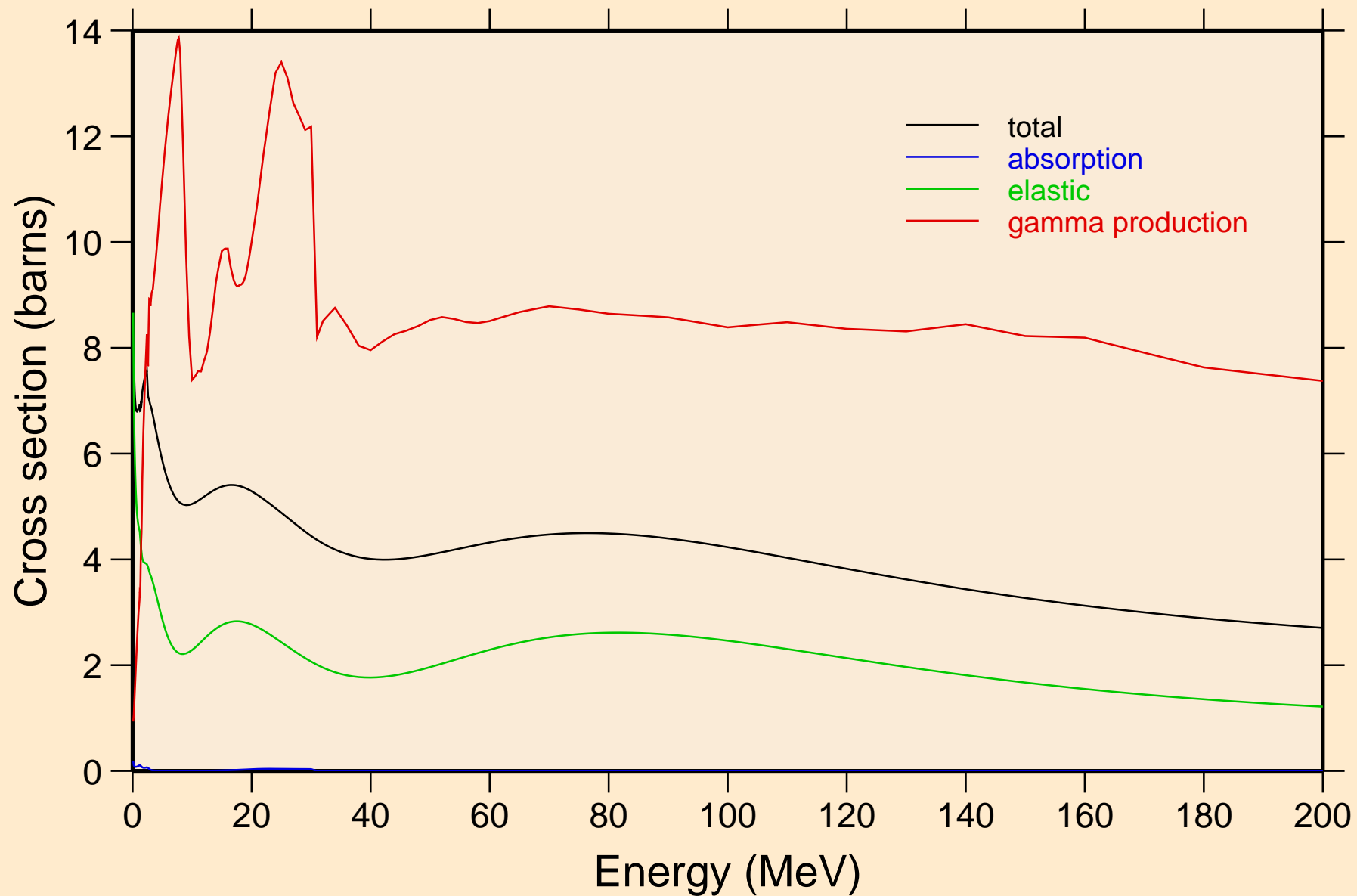
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

Non-threshold reactions

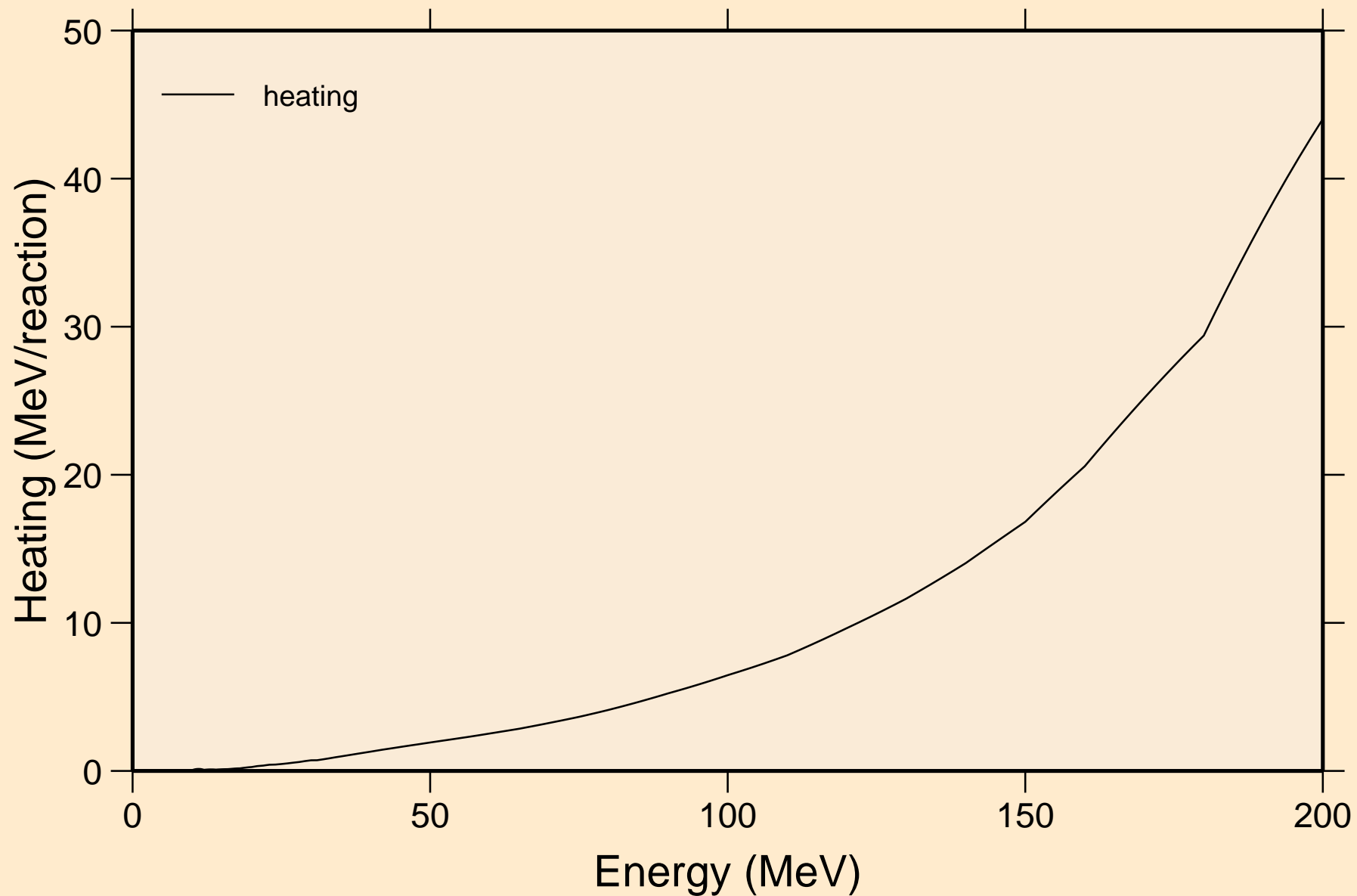


HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

Principal cross sections

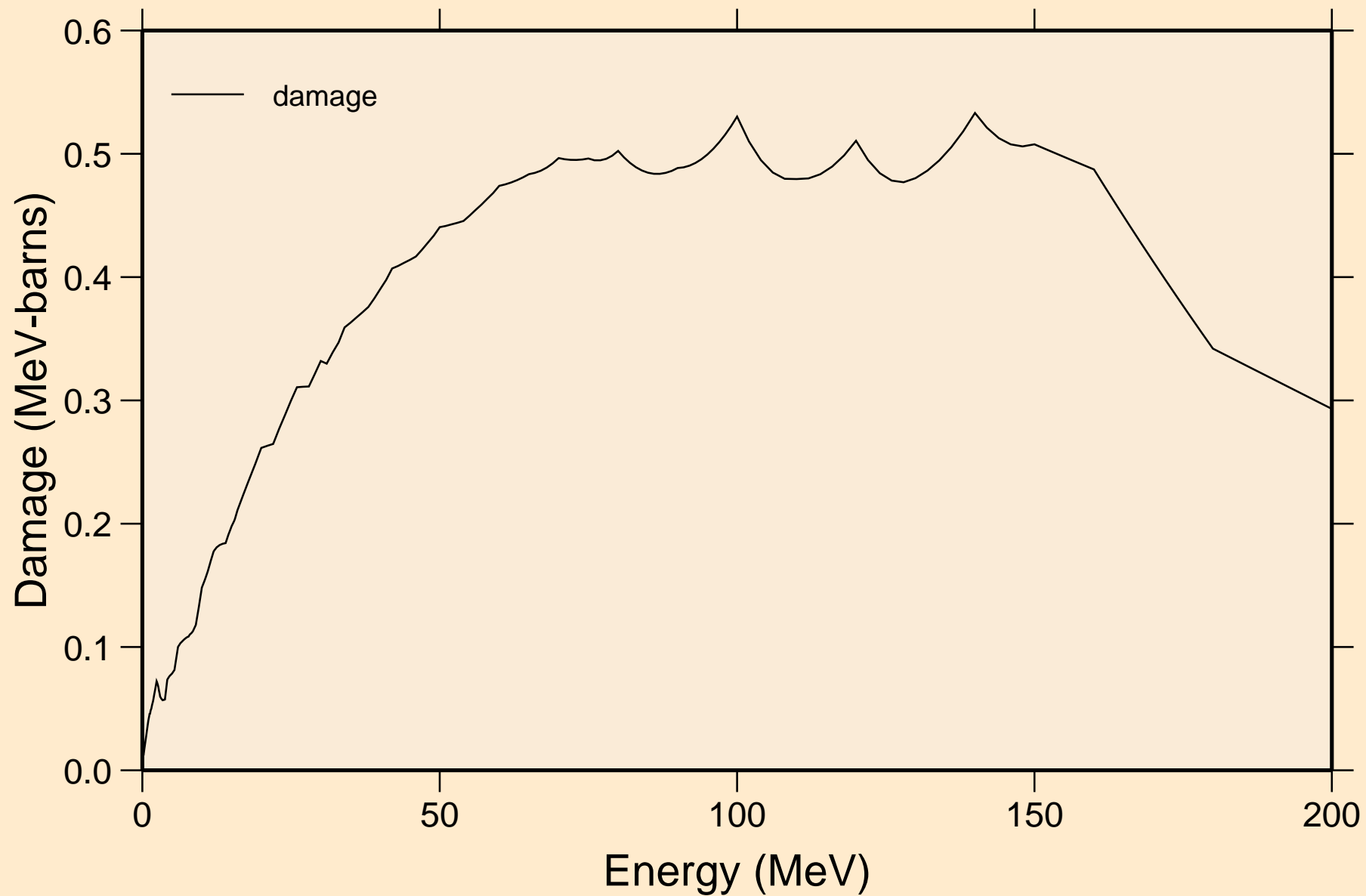


HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Heating

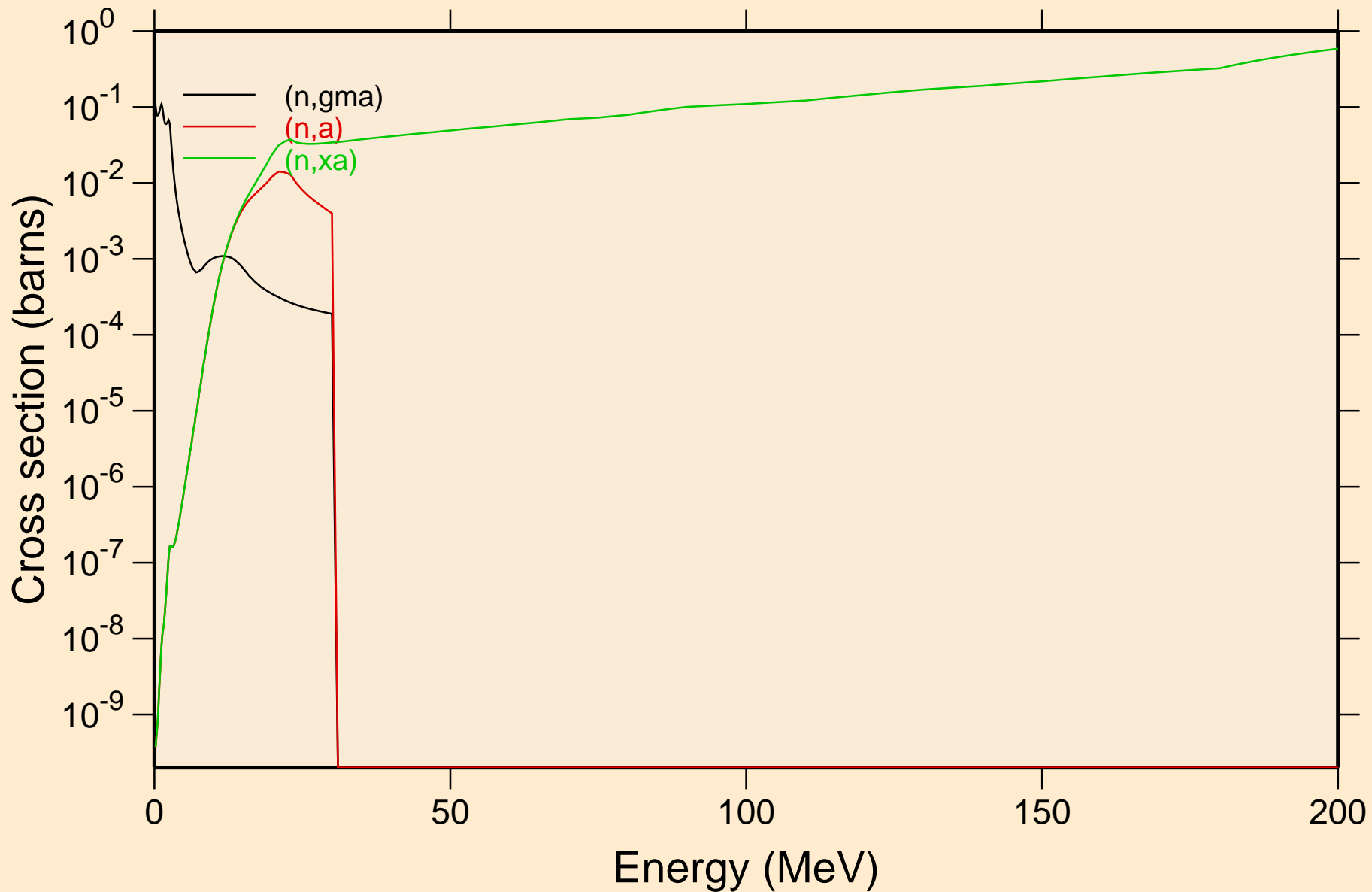


HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

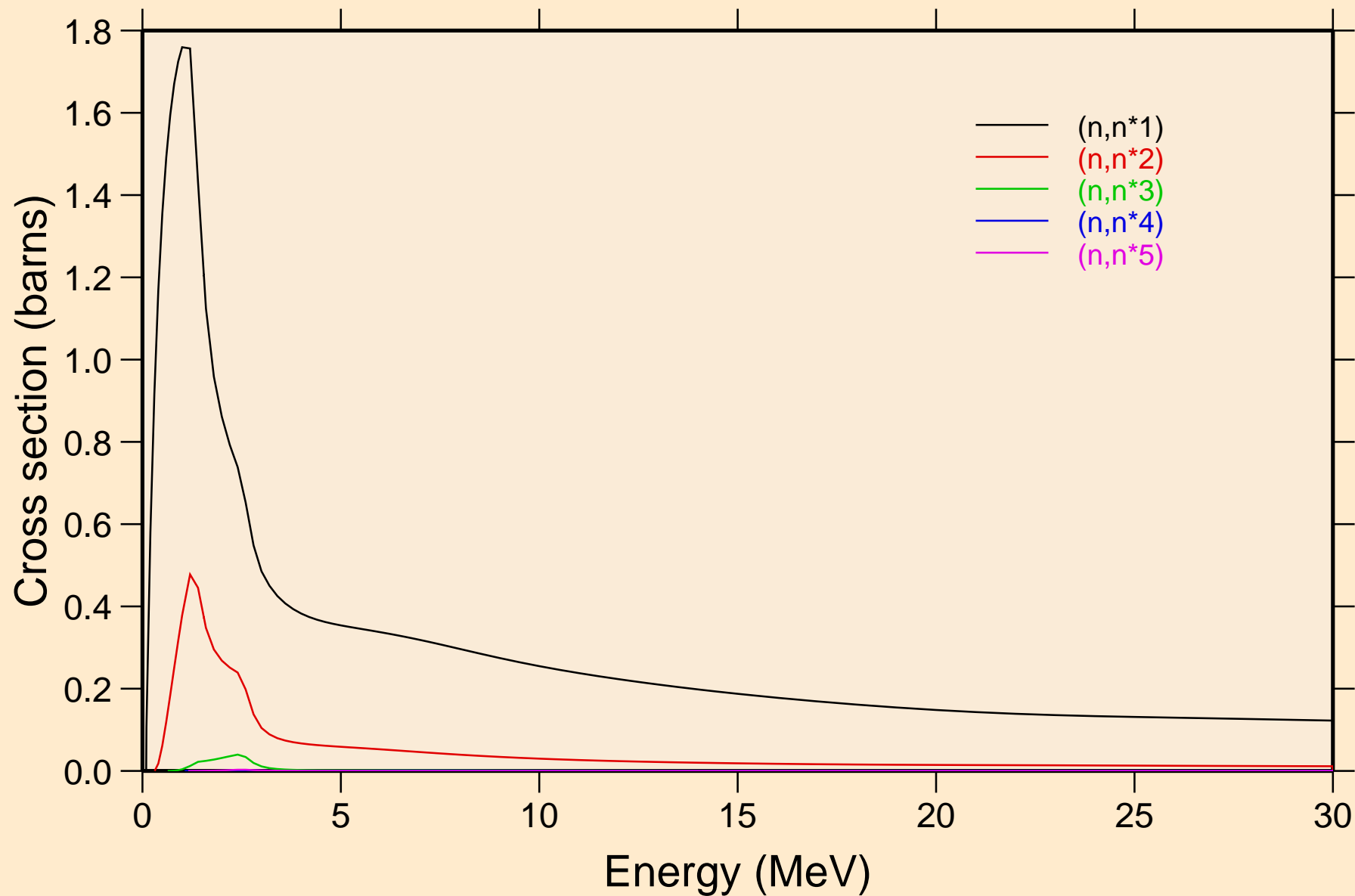
Damage



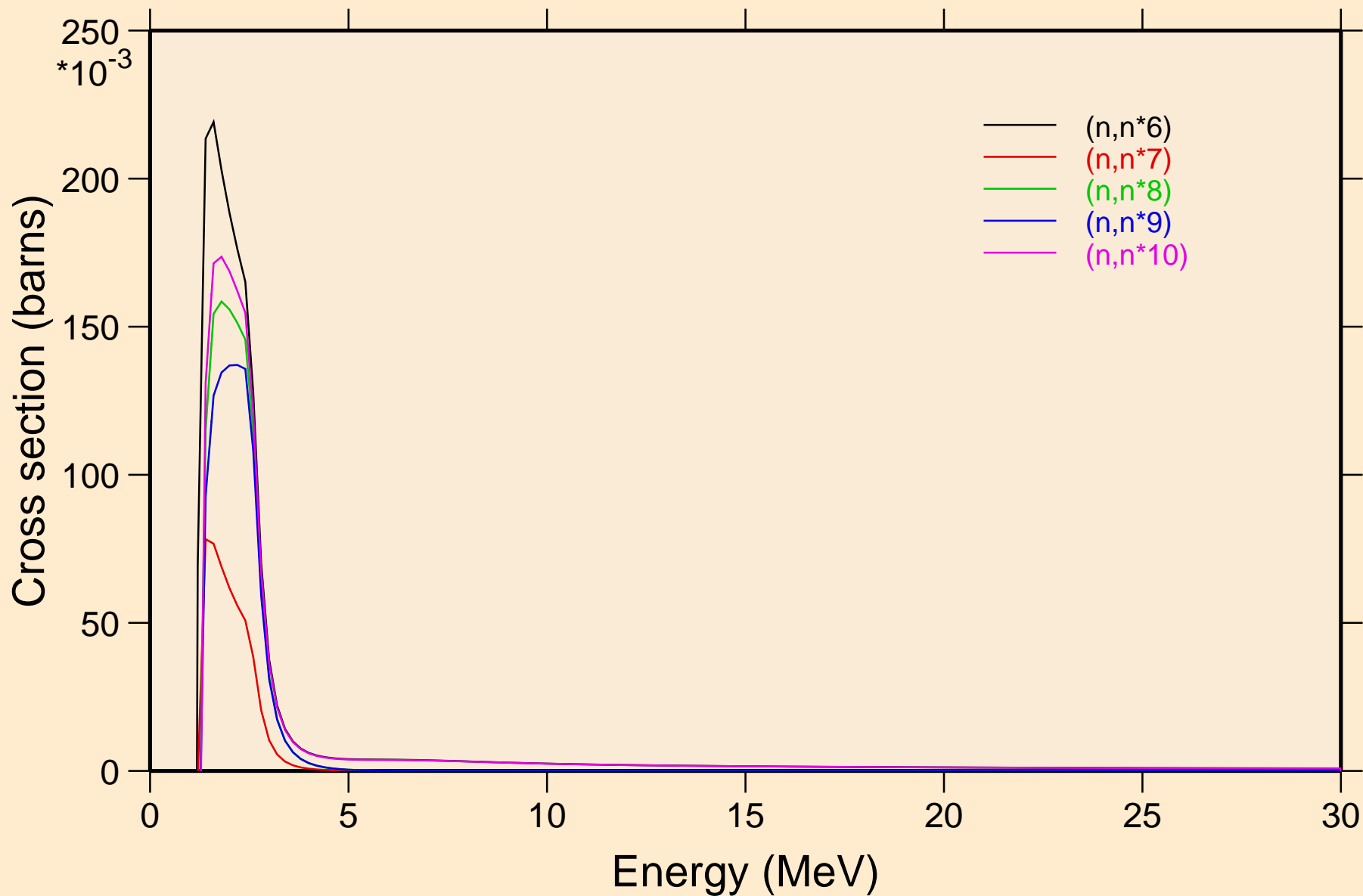
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Non-threshold reactions



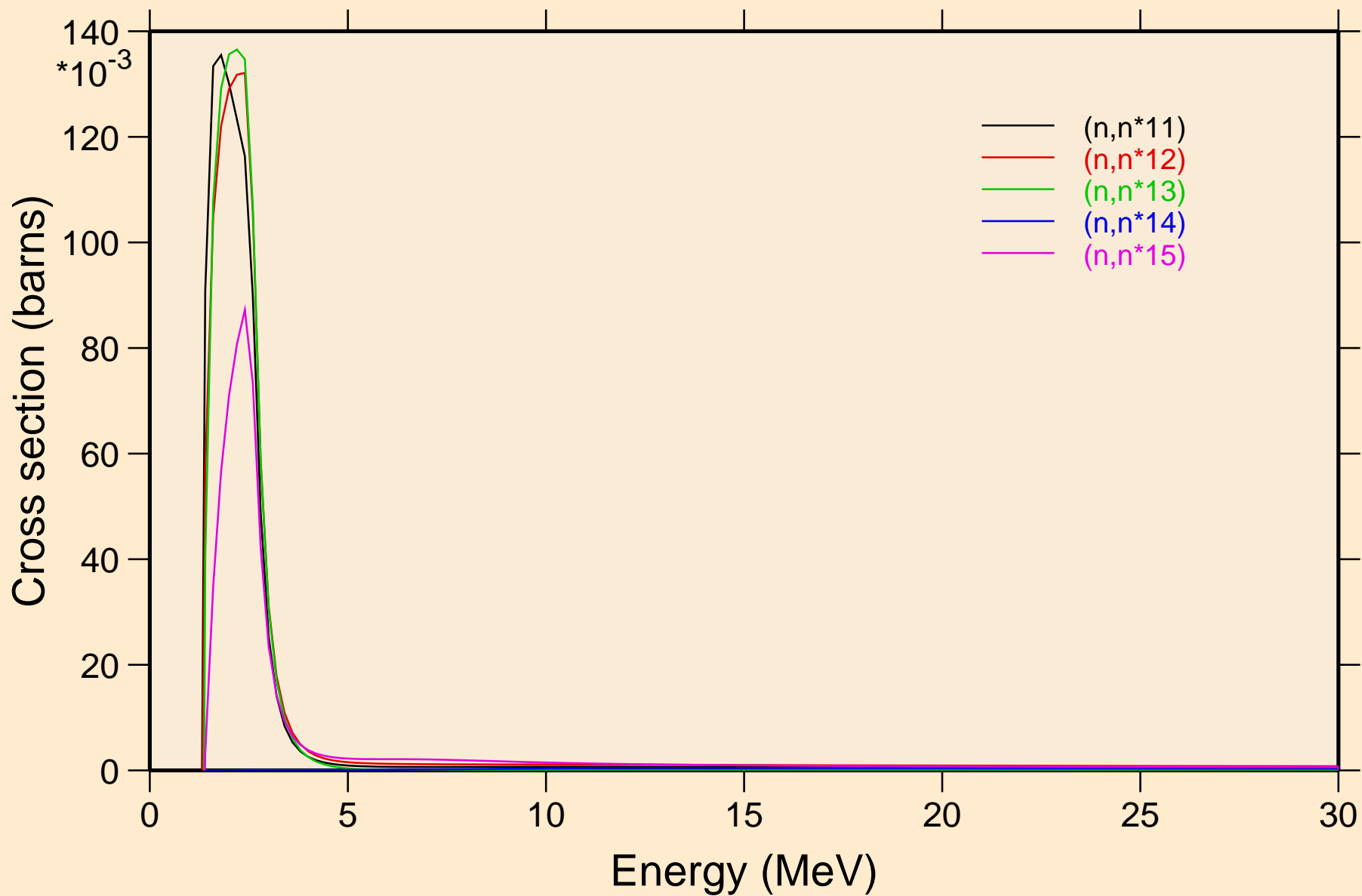
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Inelastic levels



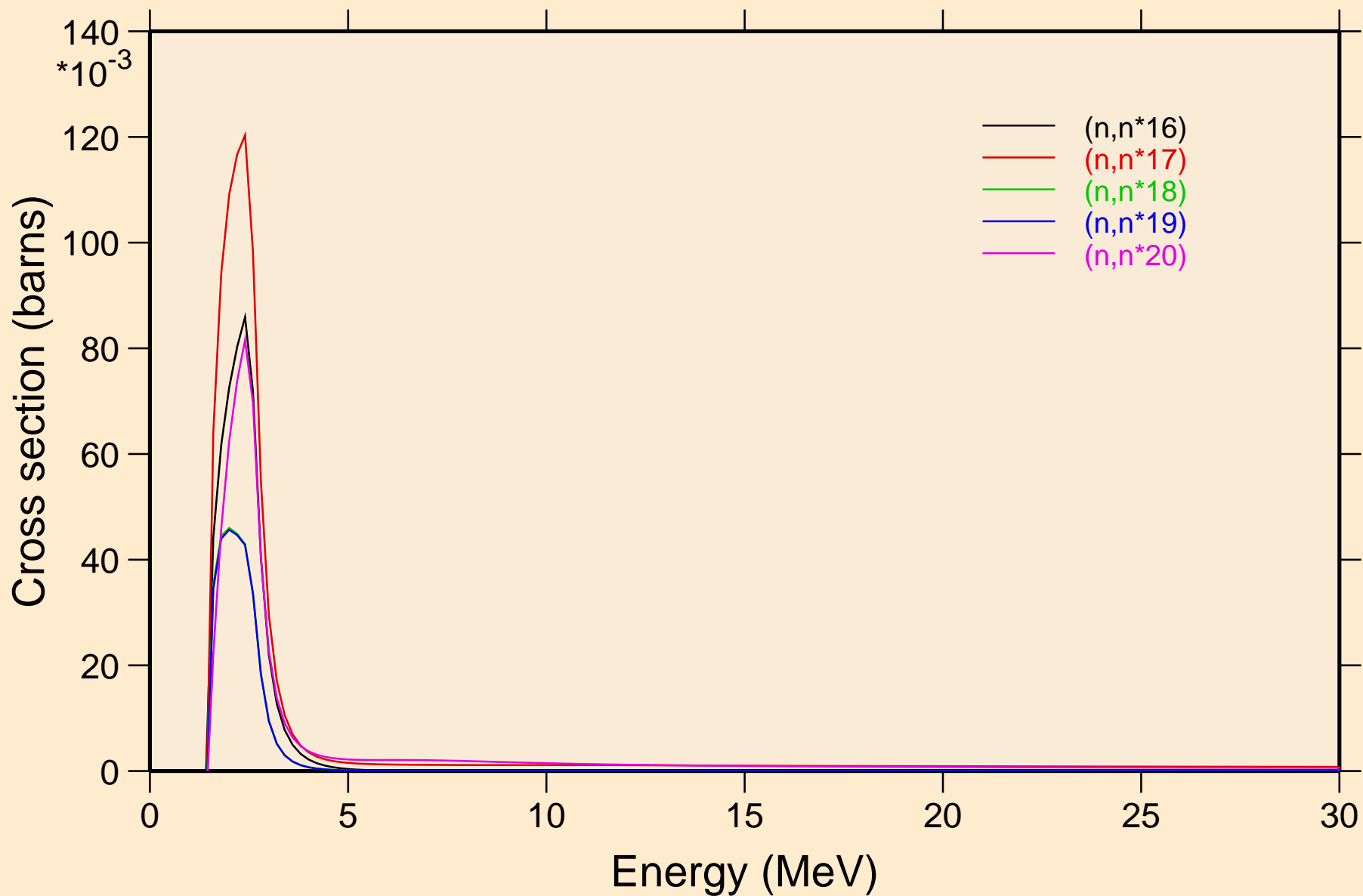
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Inelastic levels



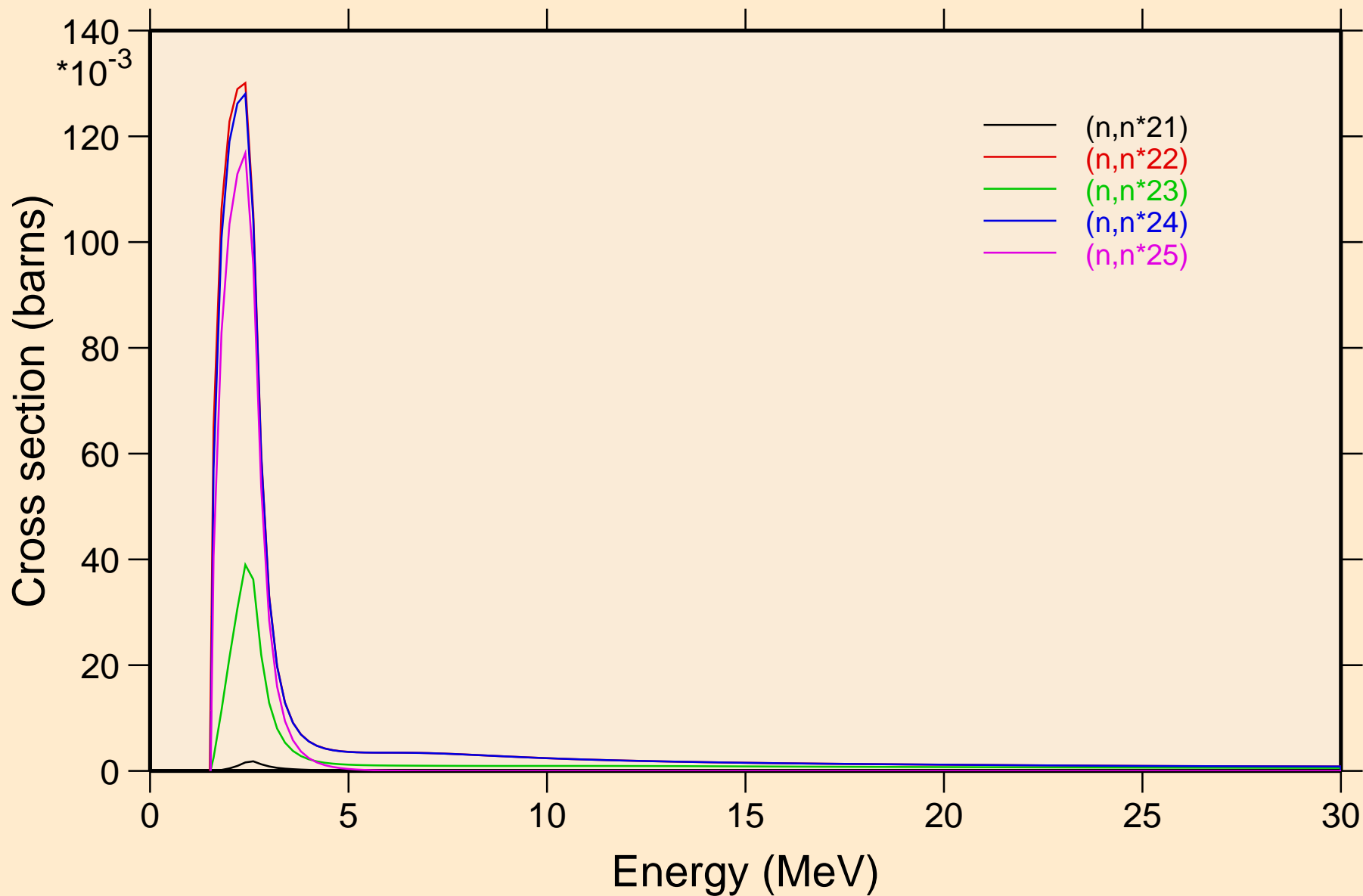
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Inelastic levels



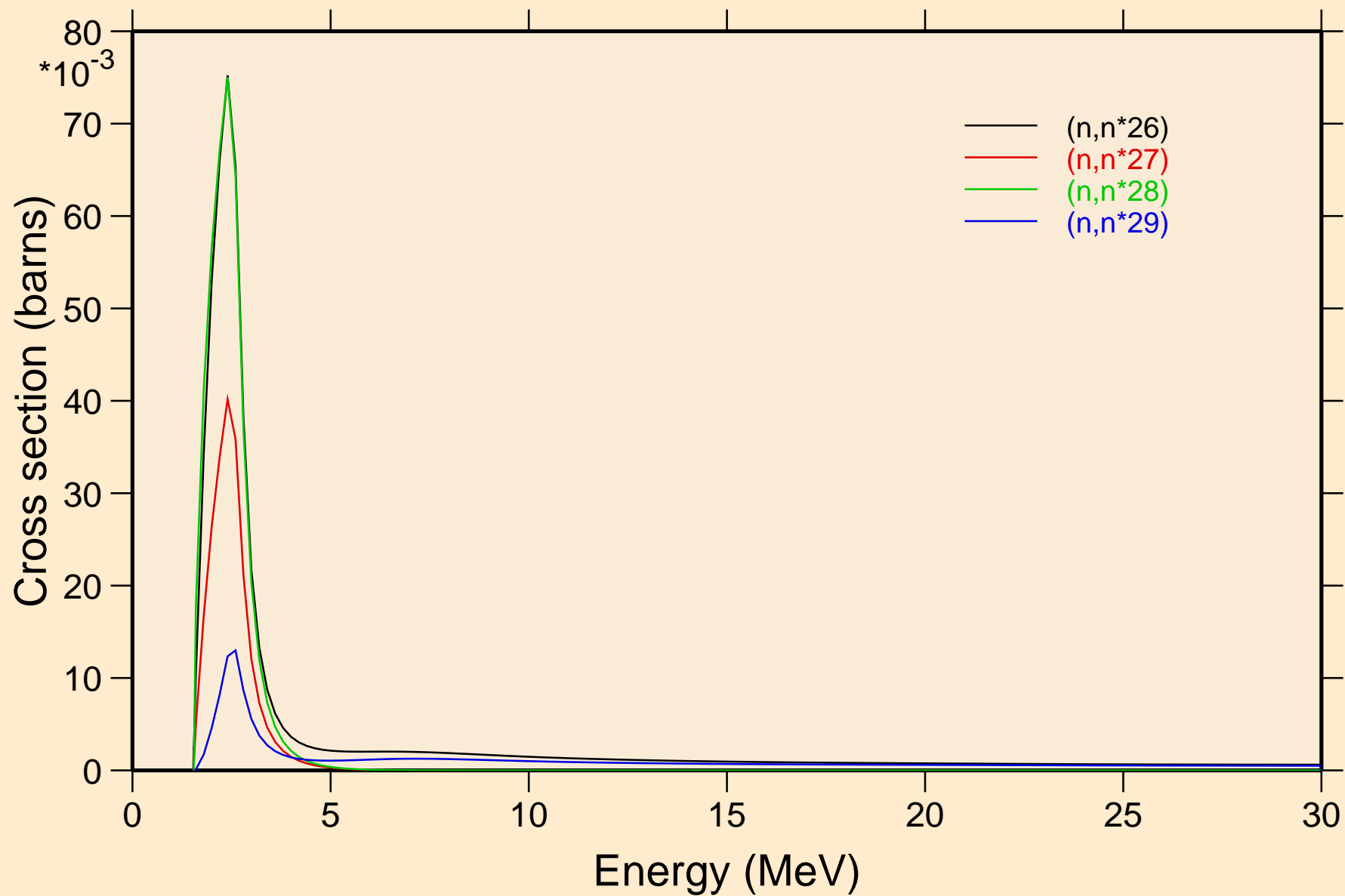
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Inelastic levels



HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Inelastic levels

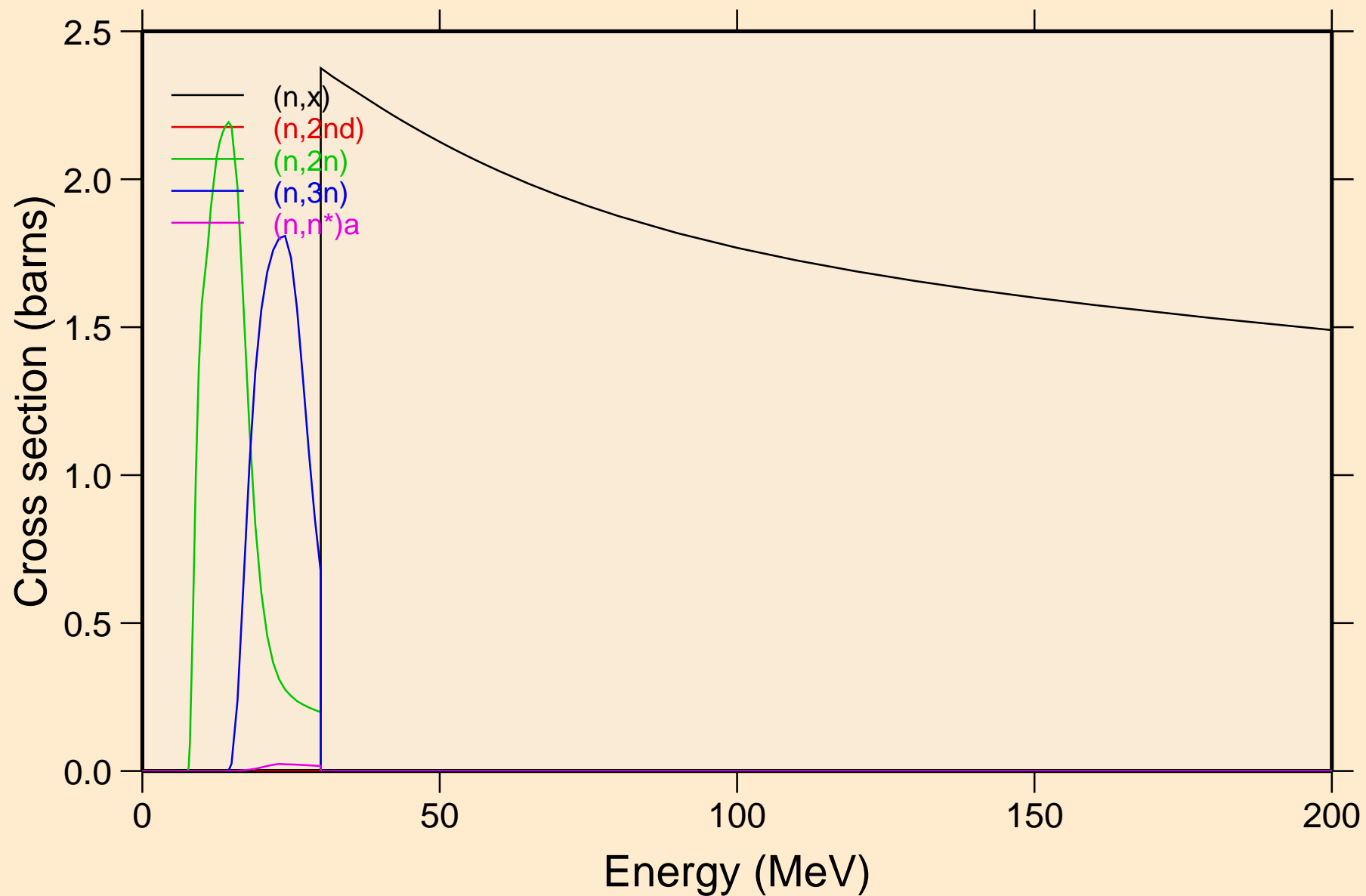


HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Inelastic levels

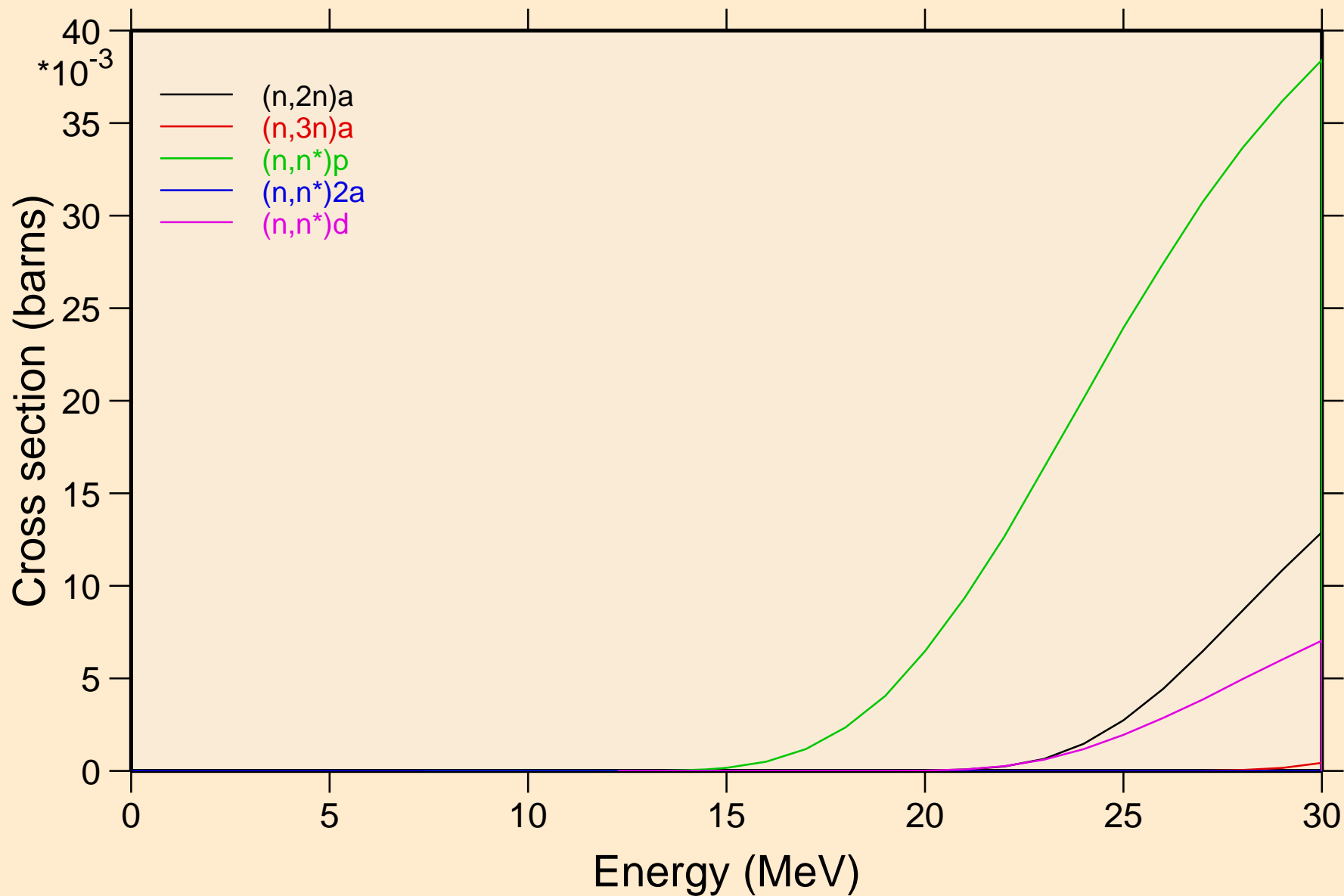


HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

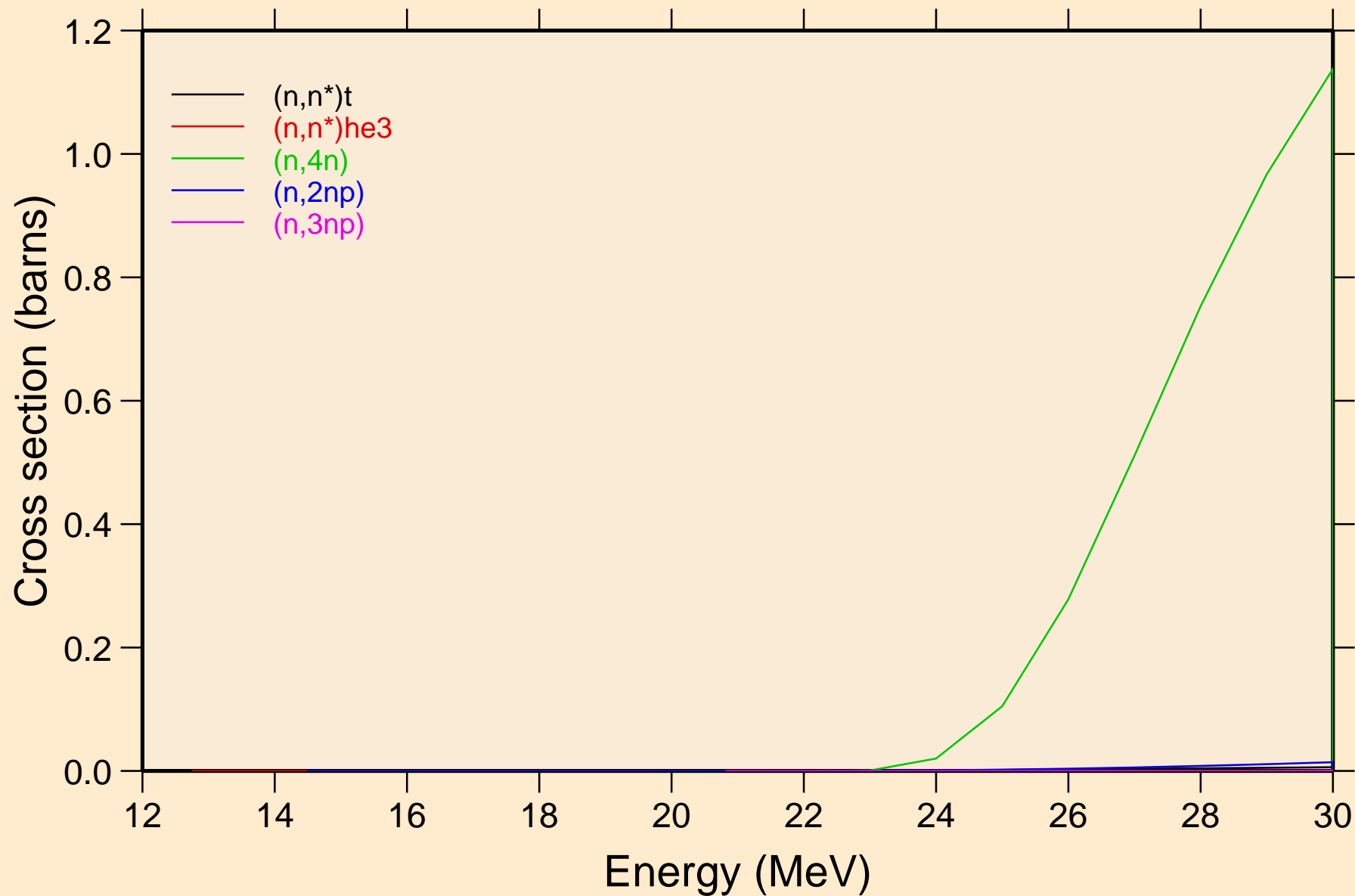
Threshold reactions



HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Threshold reactions

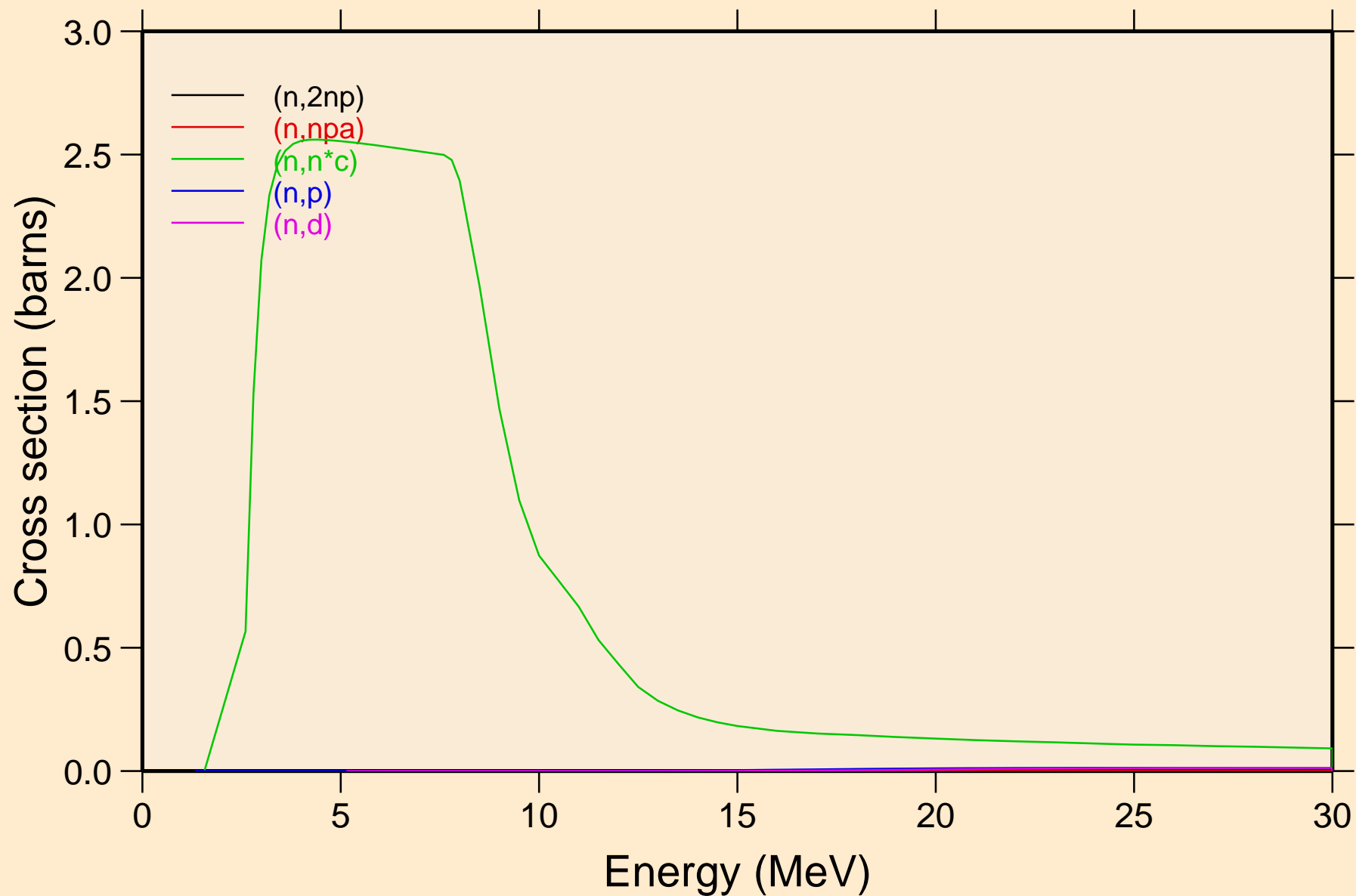


HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Threshold reactions

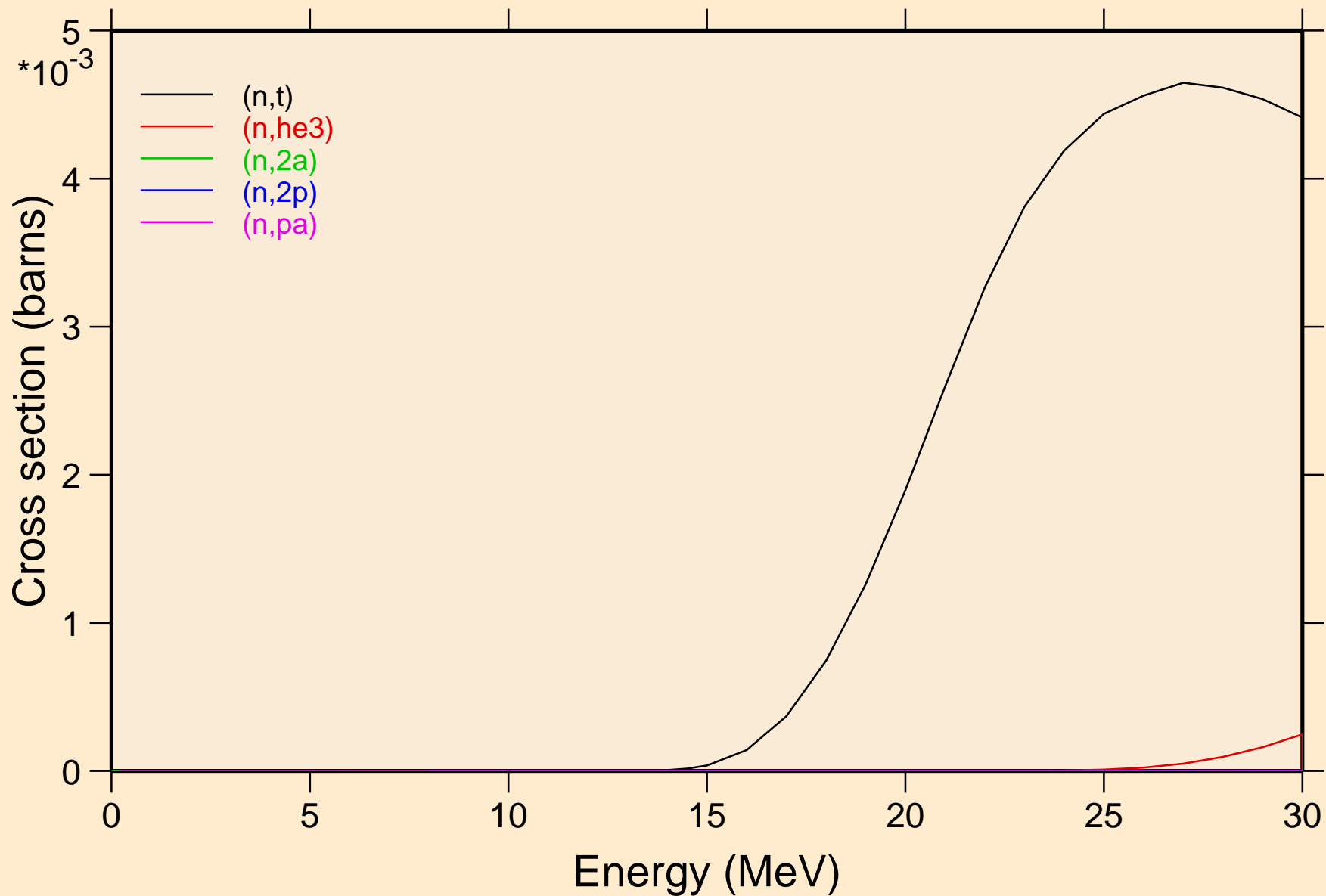


HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

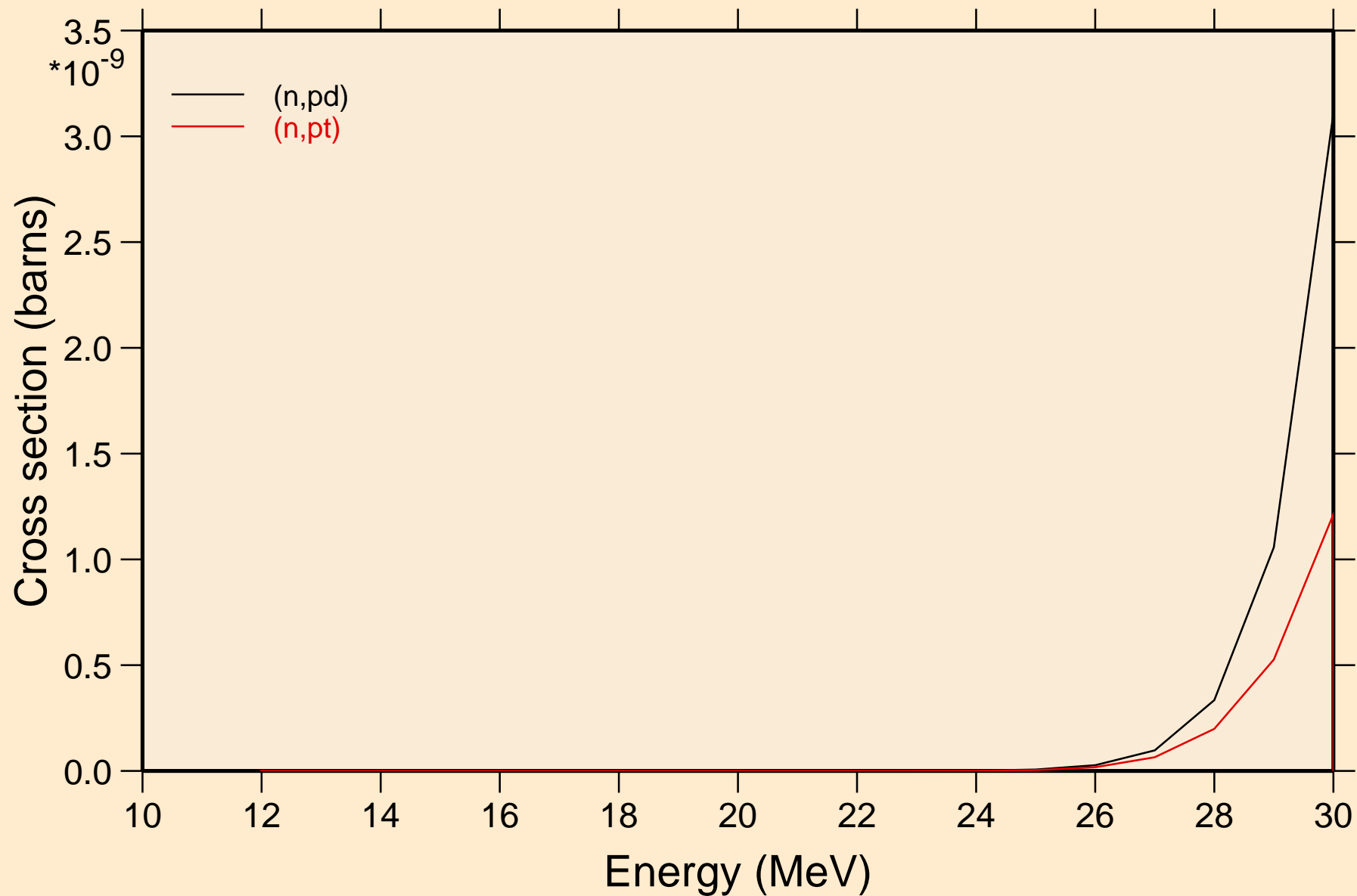
Threshold reactions



HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Threshold reactions

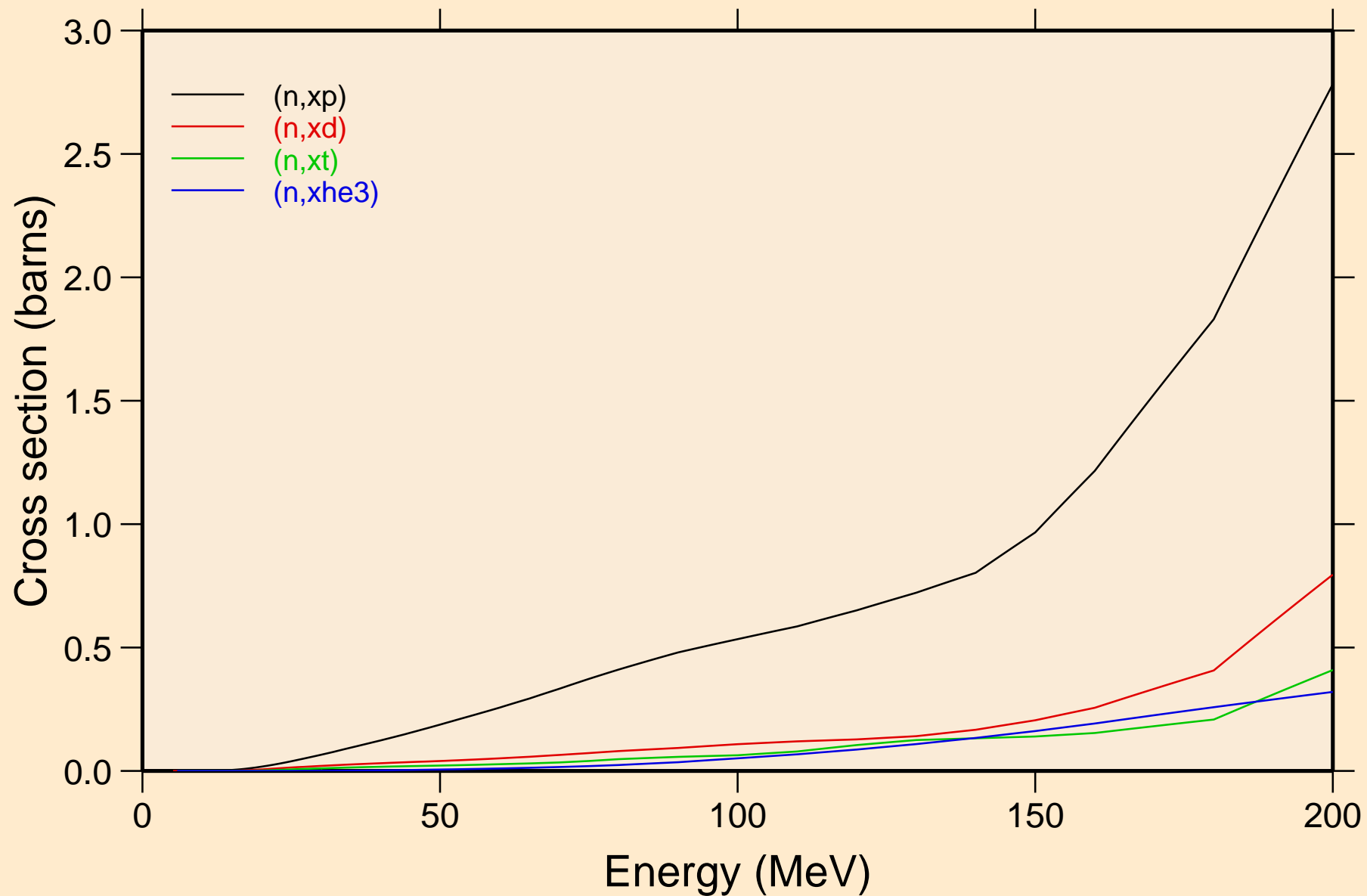


HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Threshold reactions

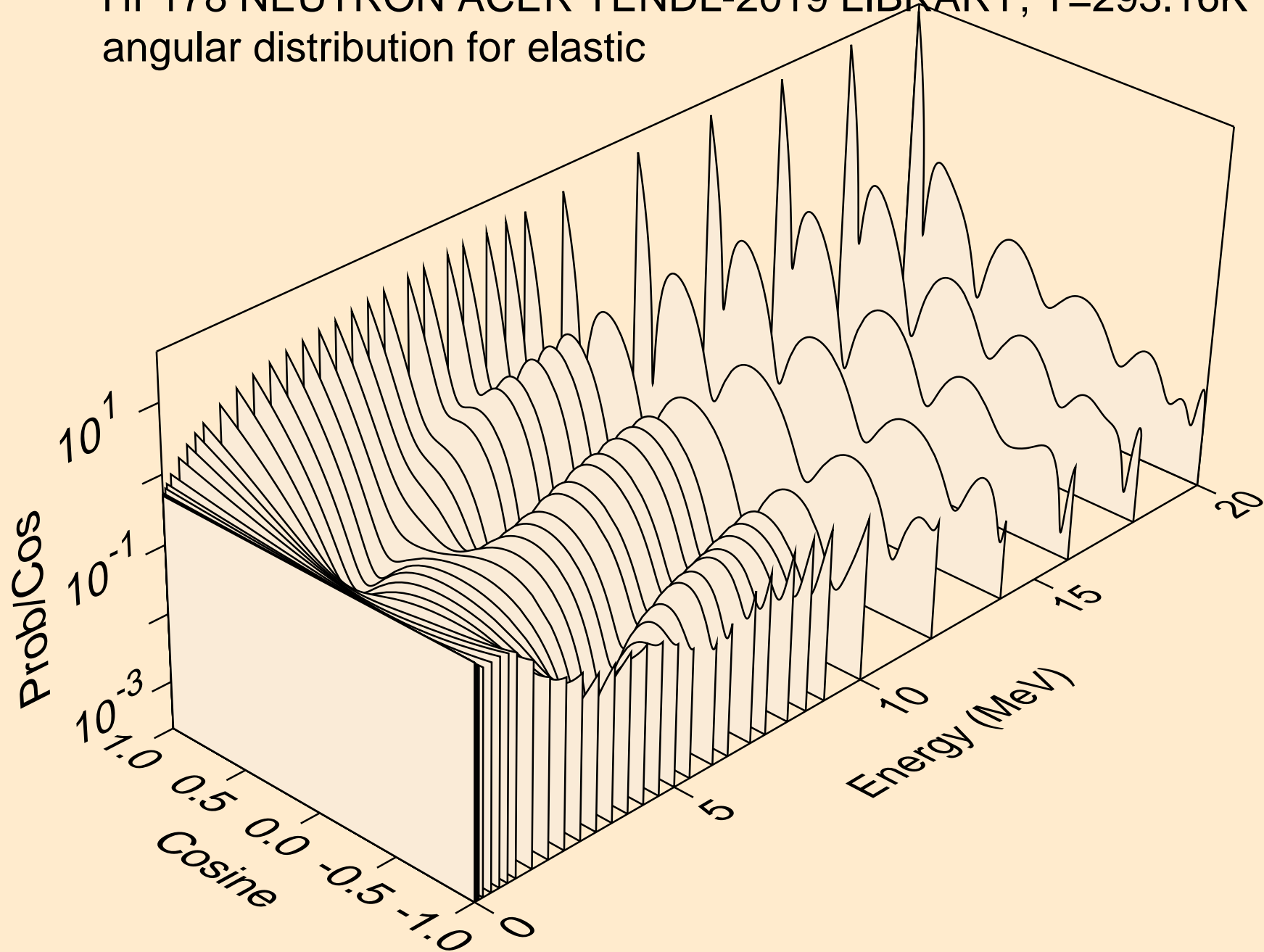


HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

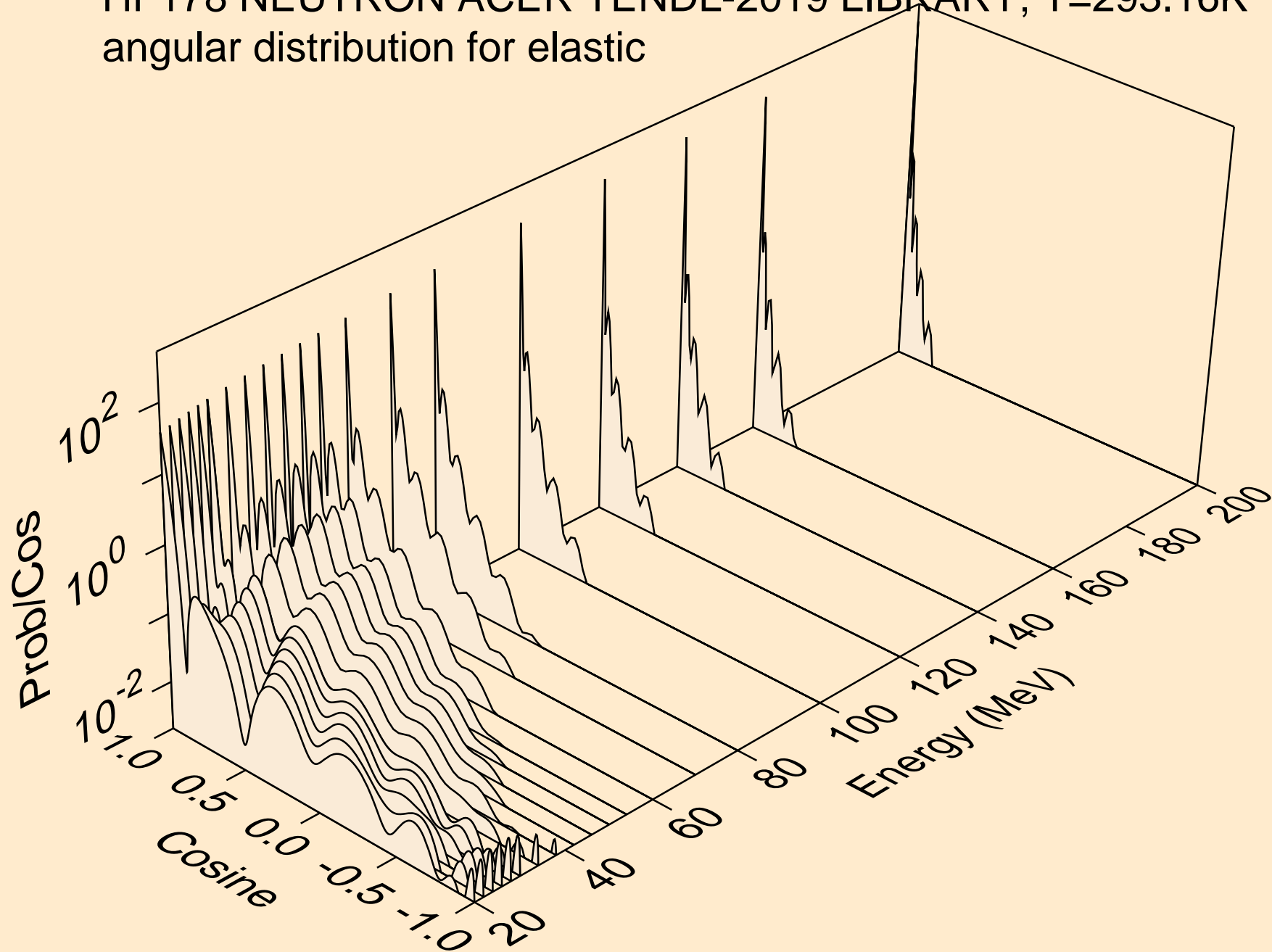
Threshold reactions



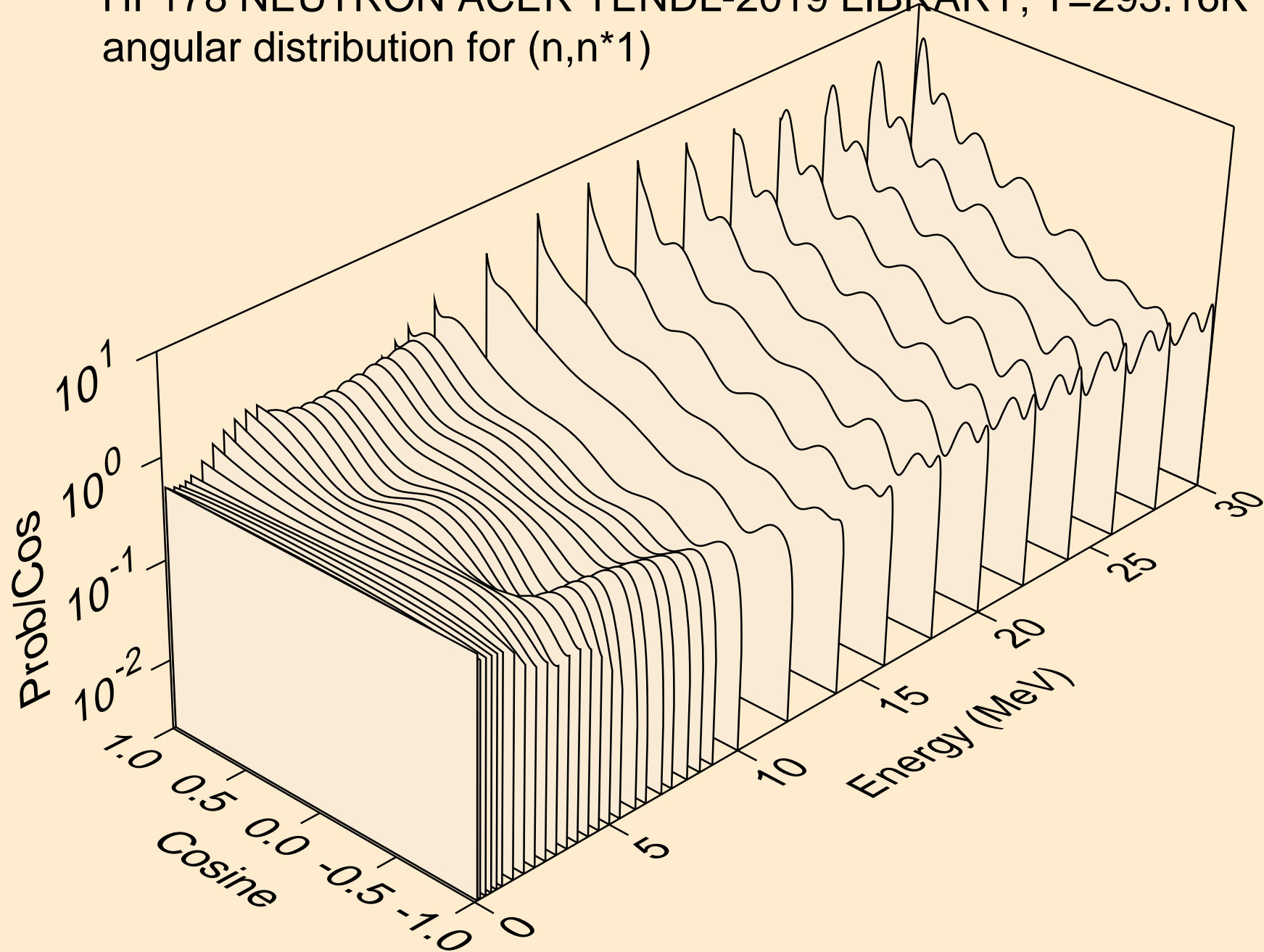
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for elastic



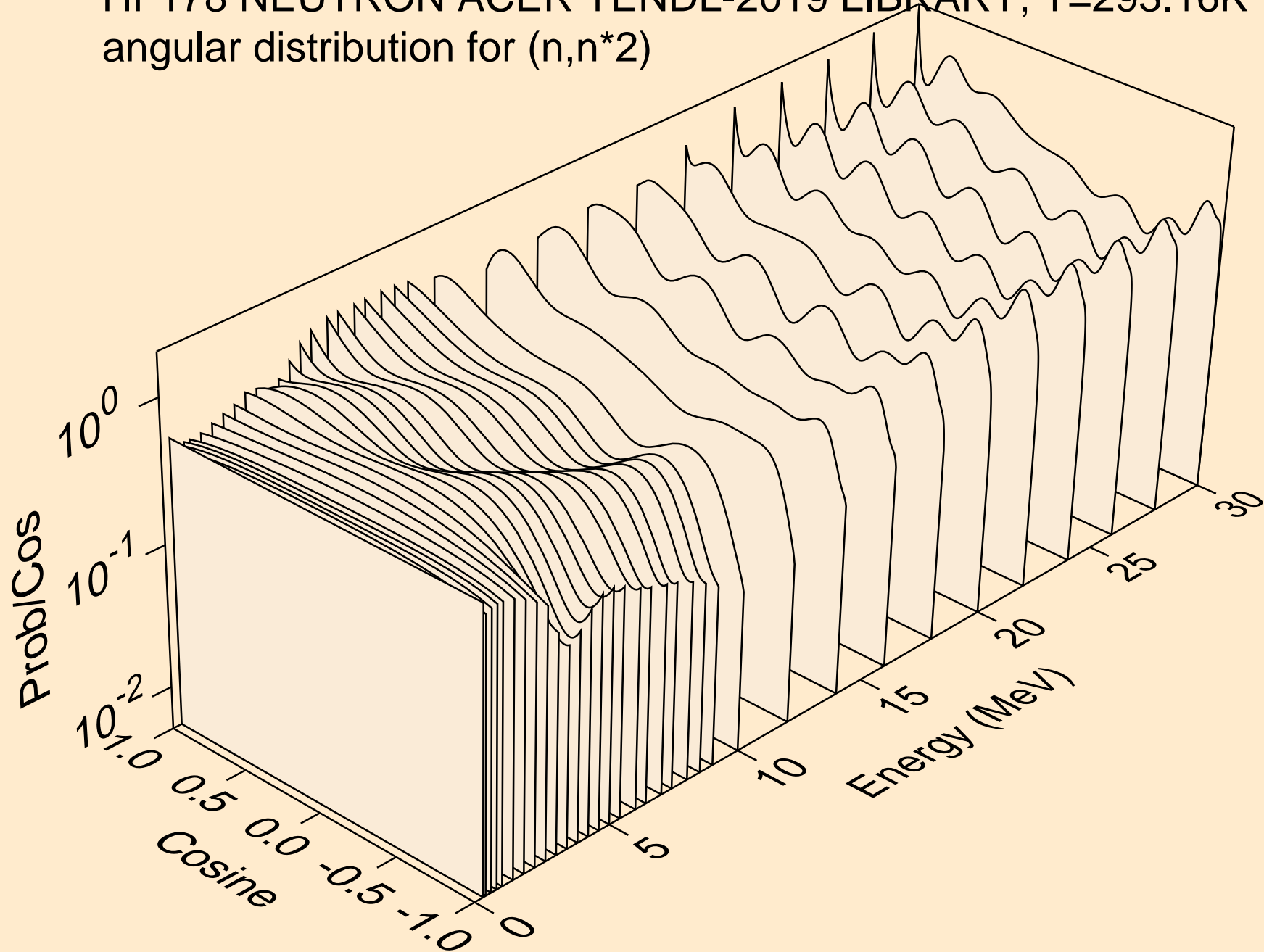
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for elastic



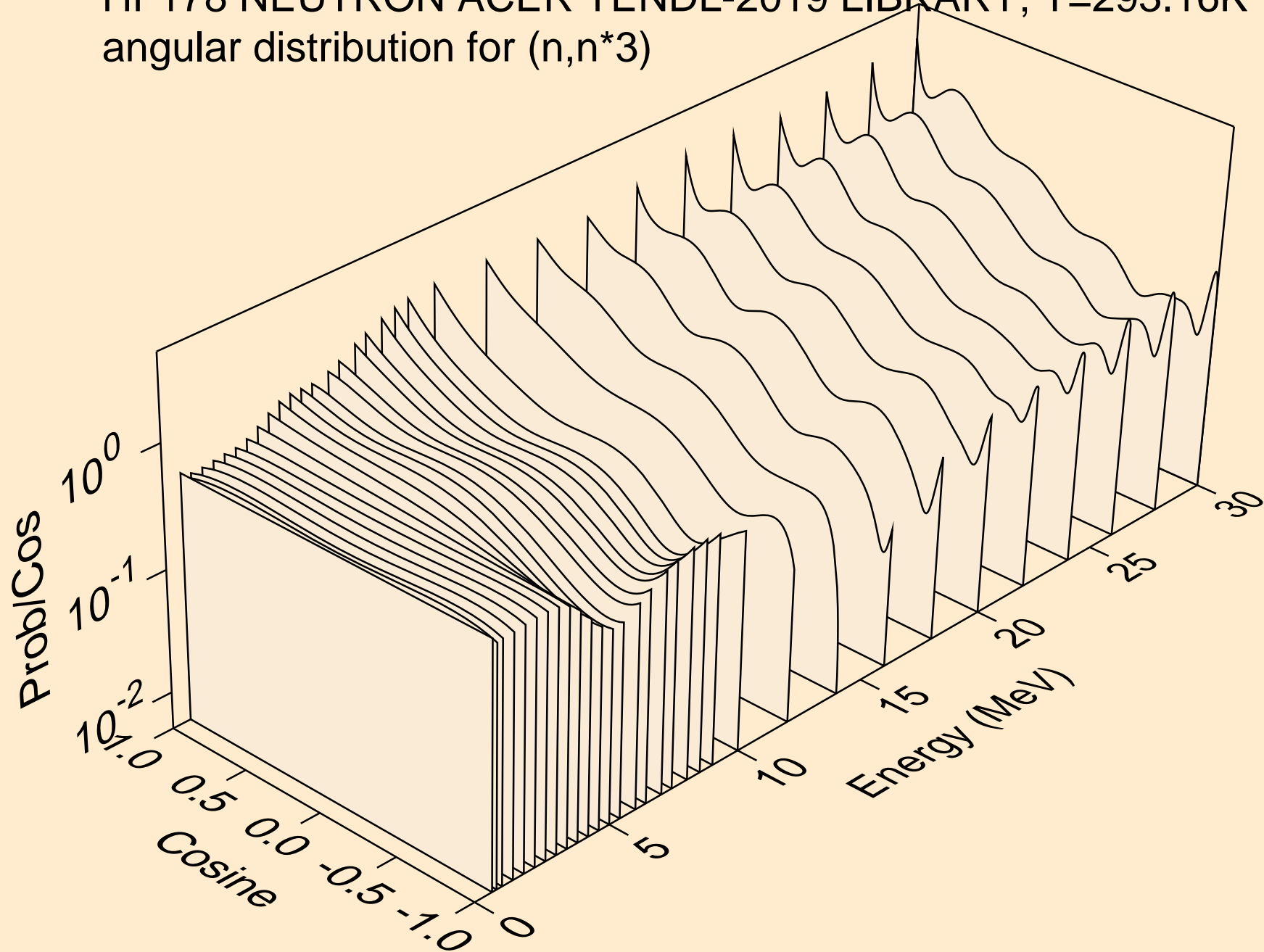
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*1)



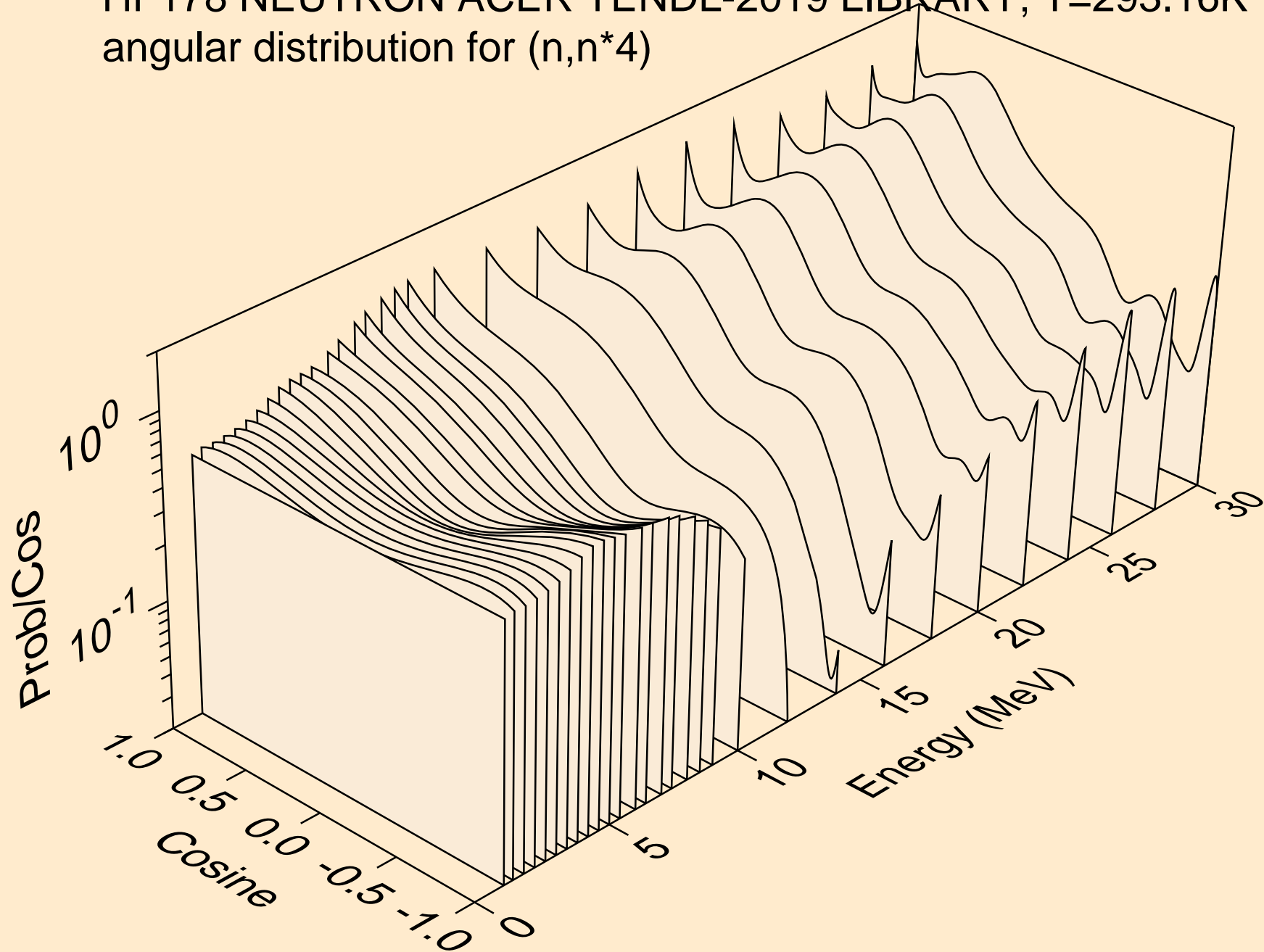
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*2)



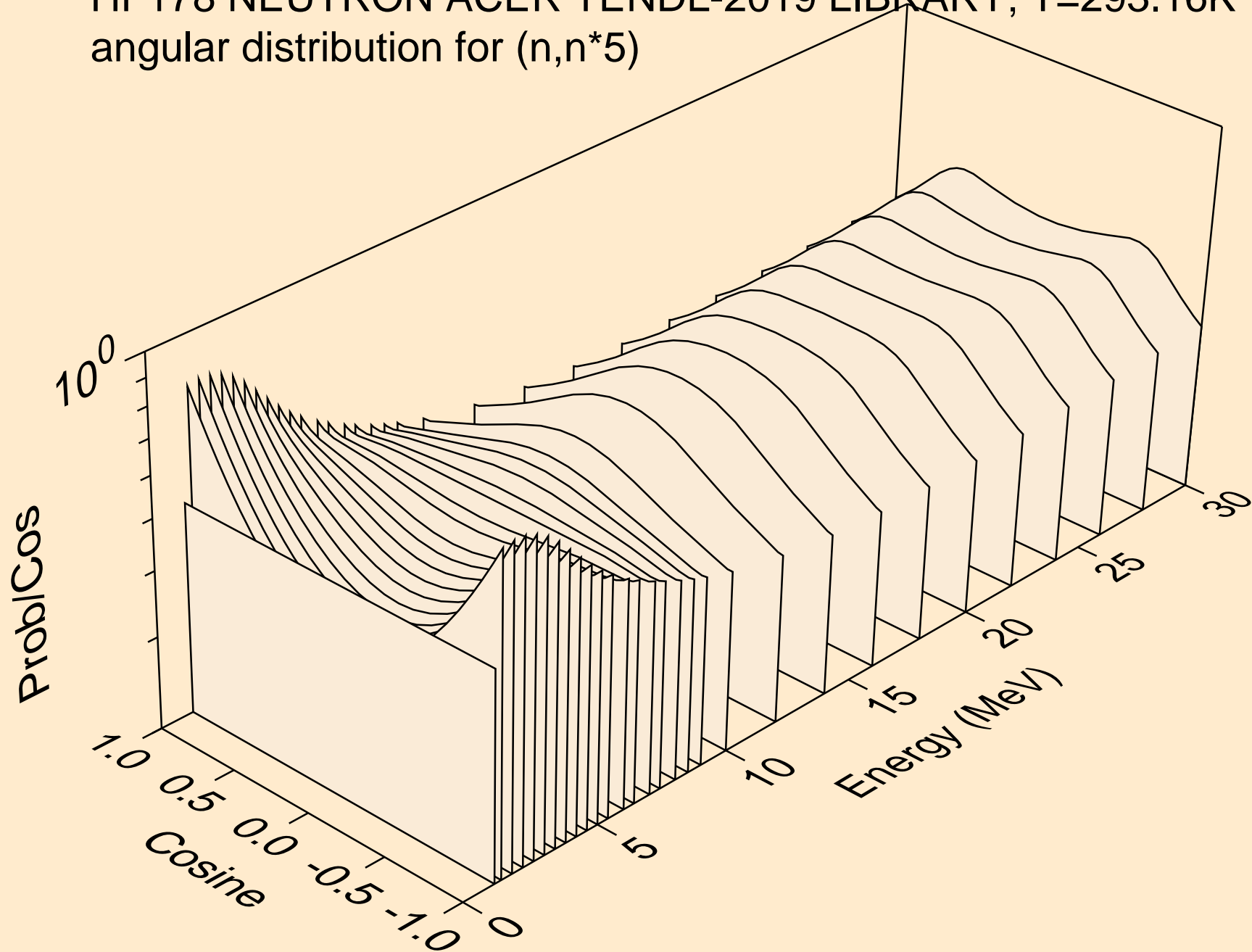
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*3)



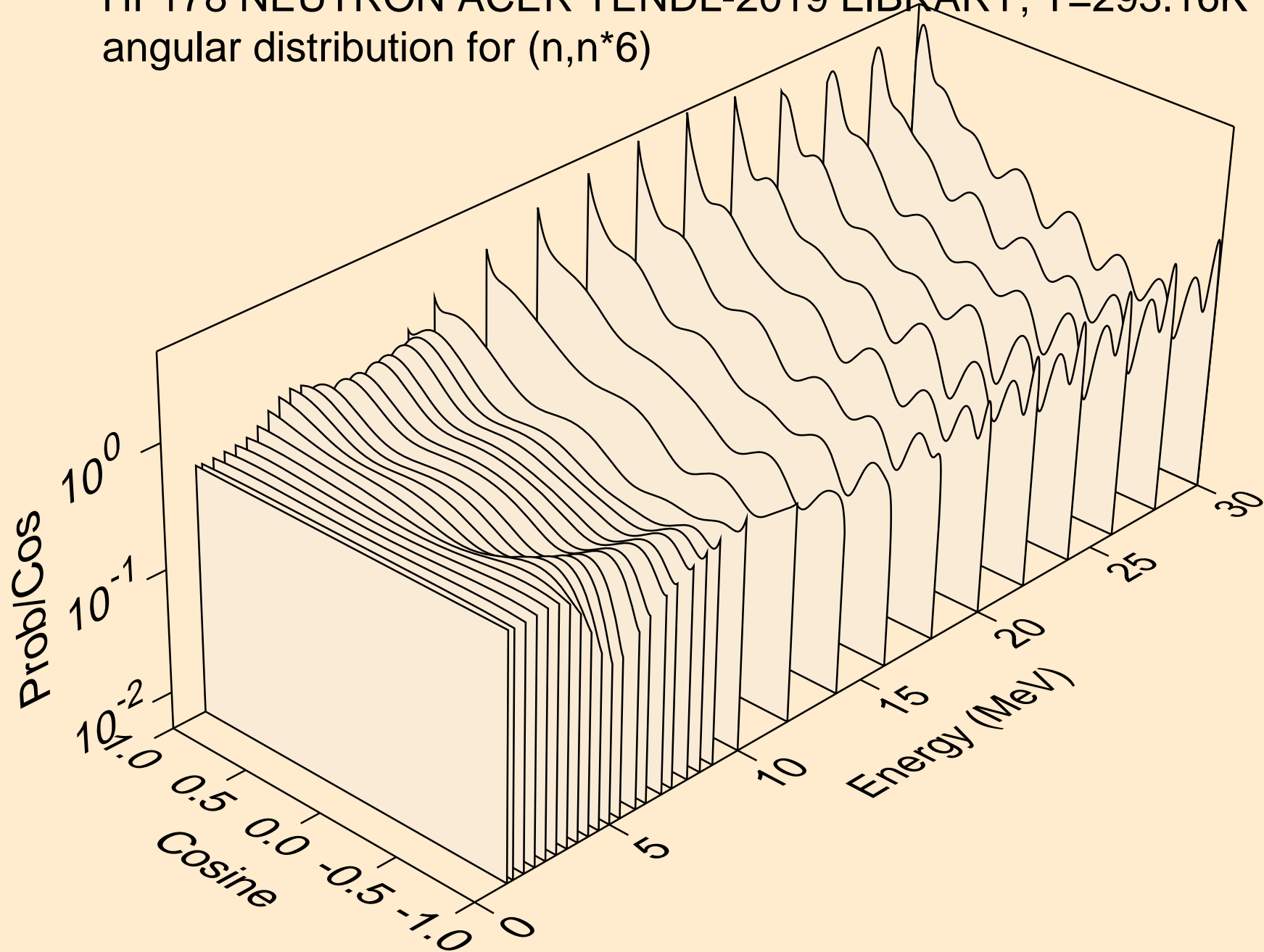
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*4)



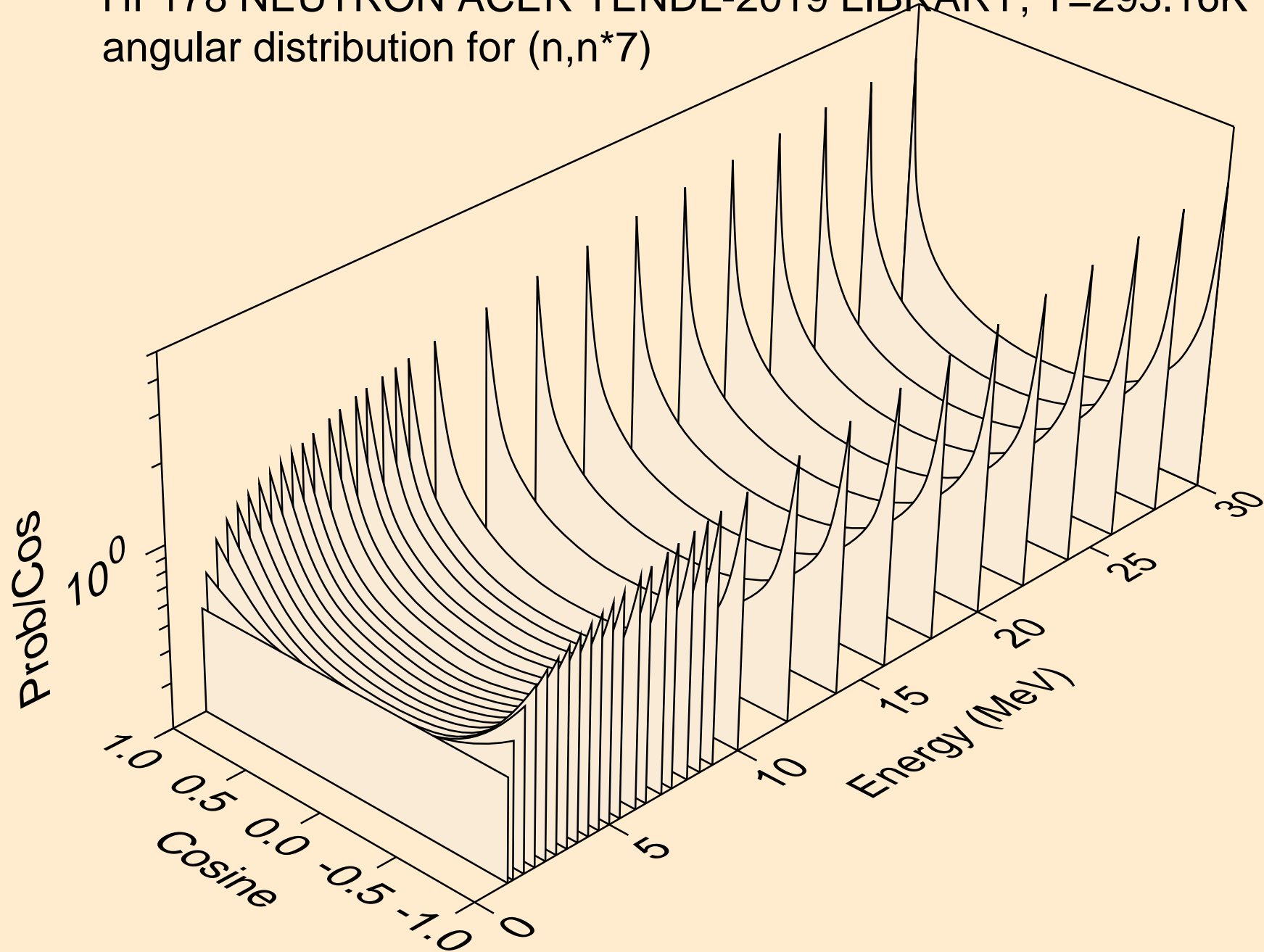
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*5)



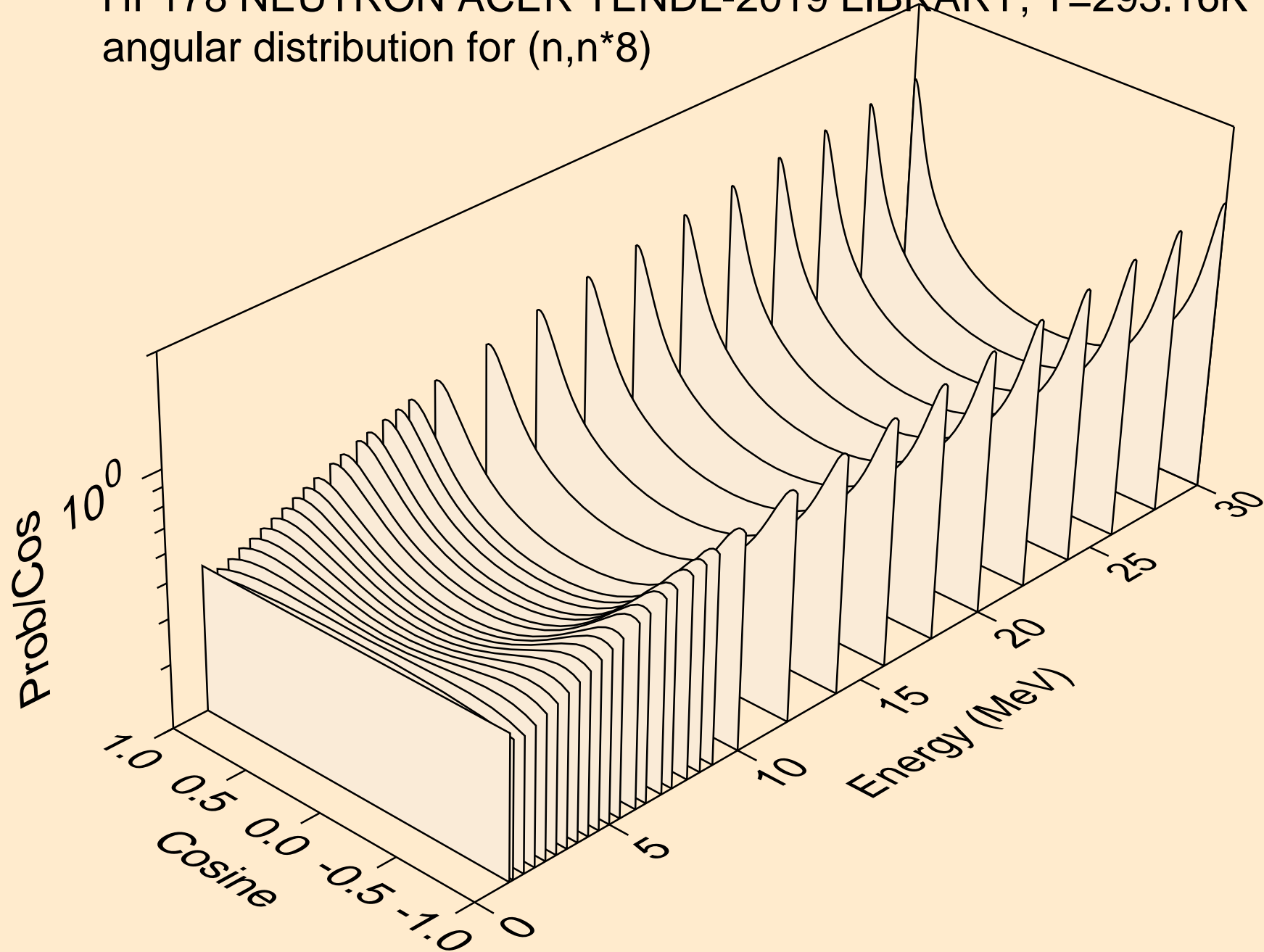
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*6)



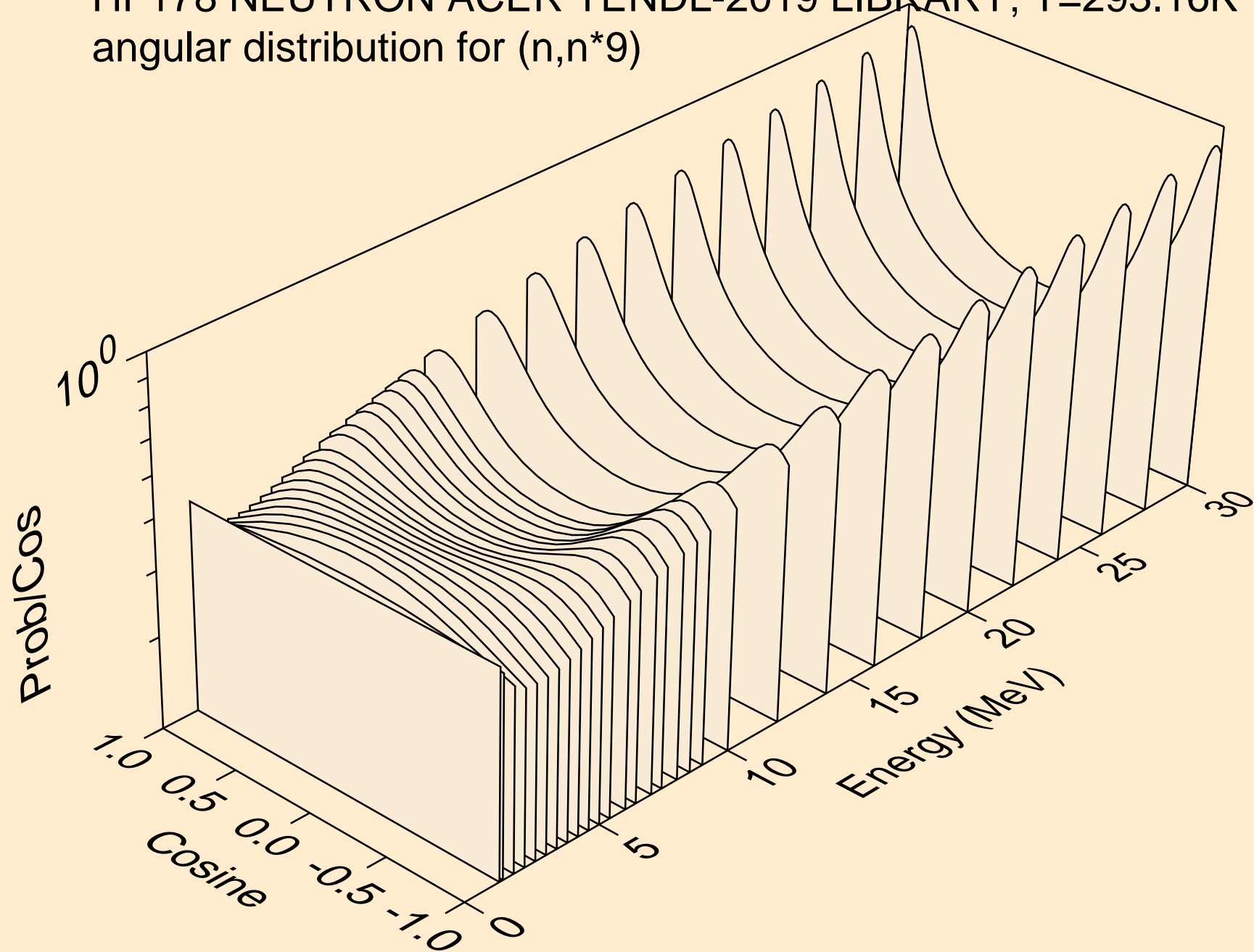
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*7)



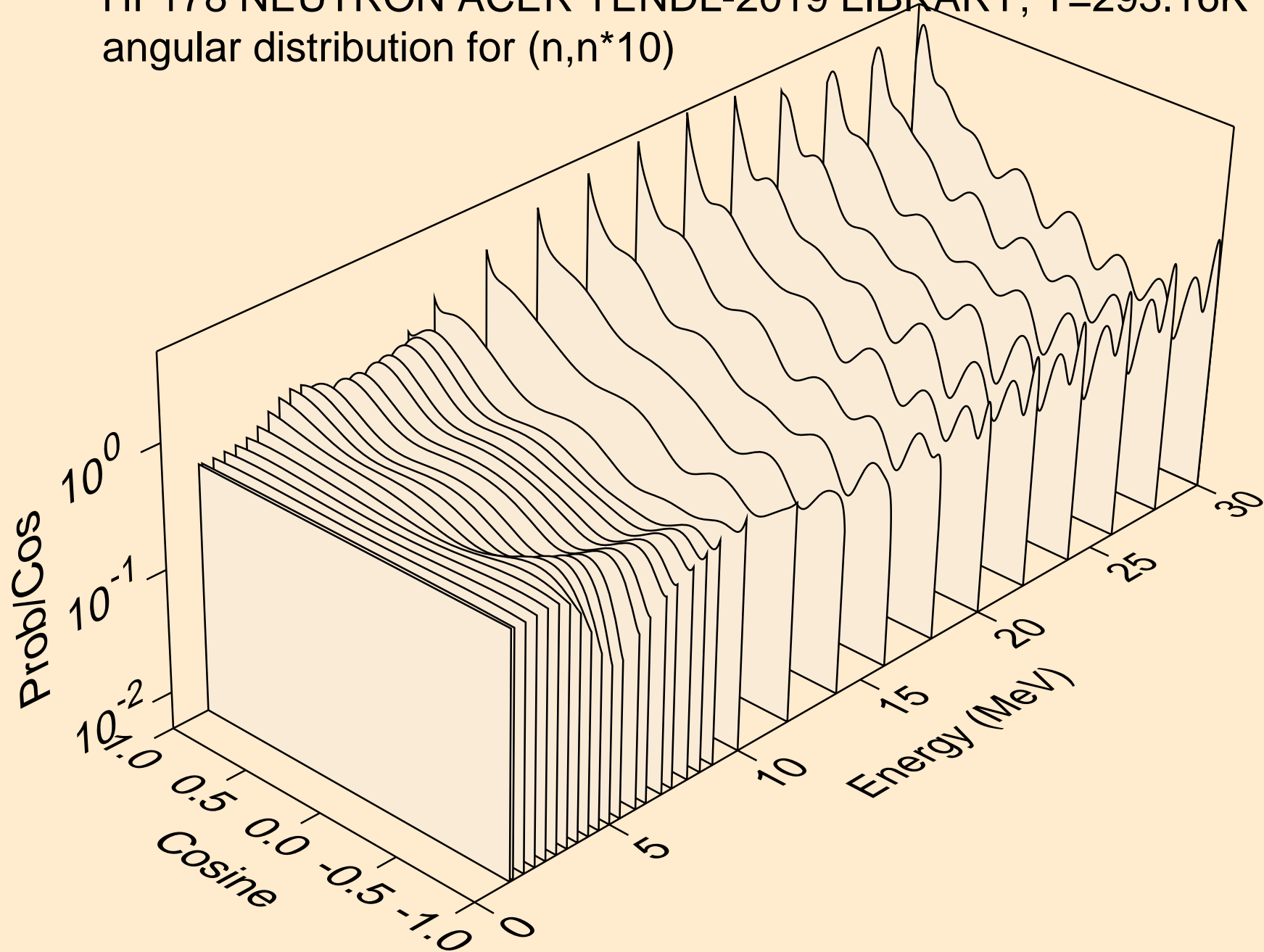
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*8)



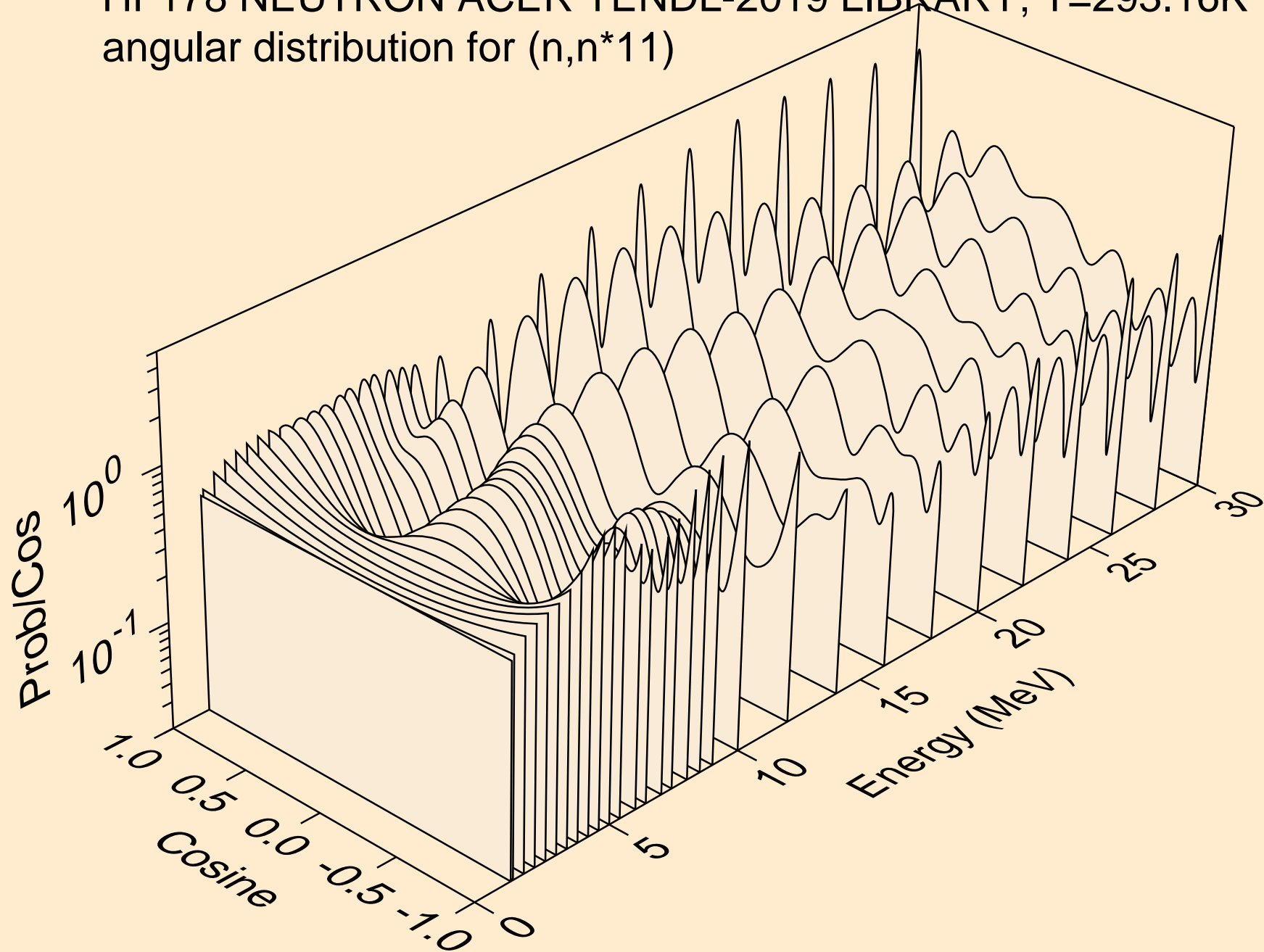
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*9)



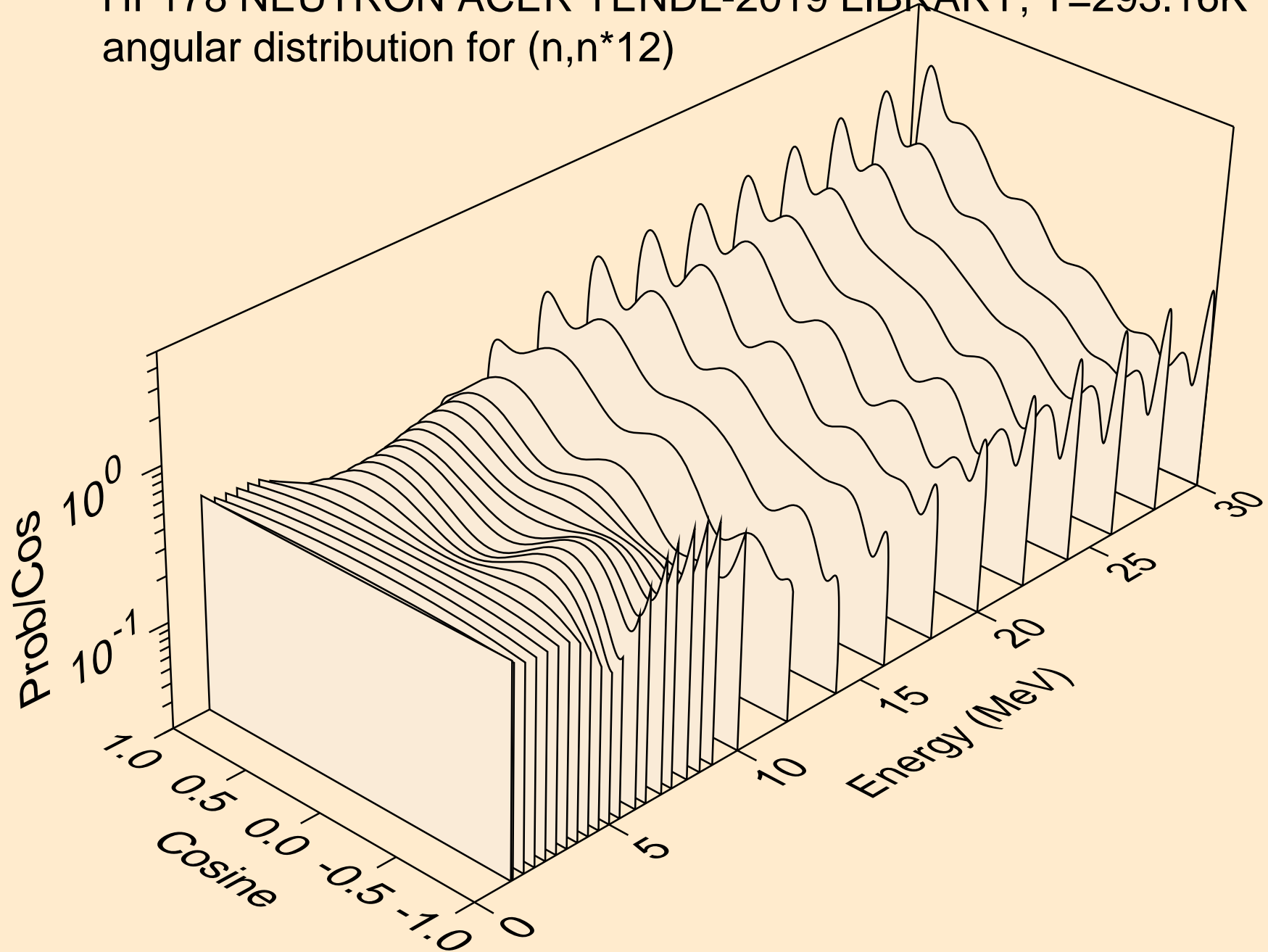
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*10)



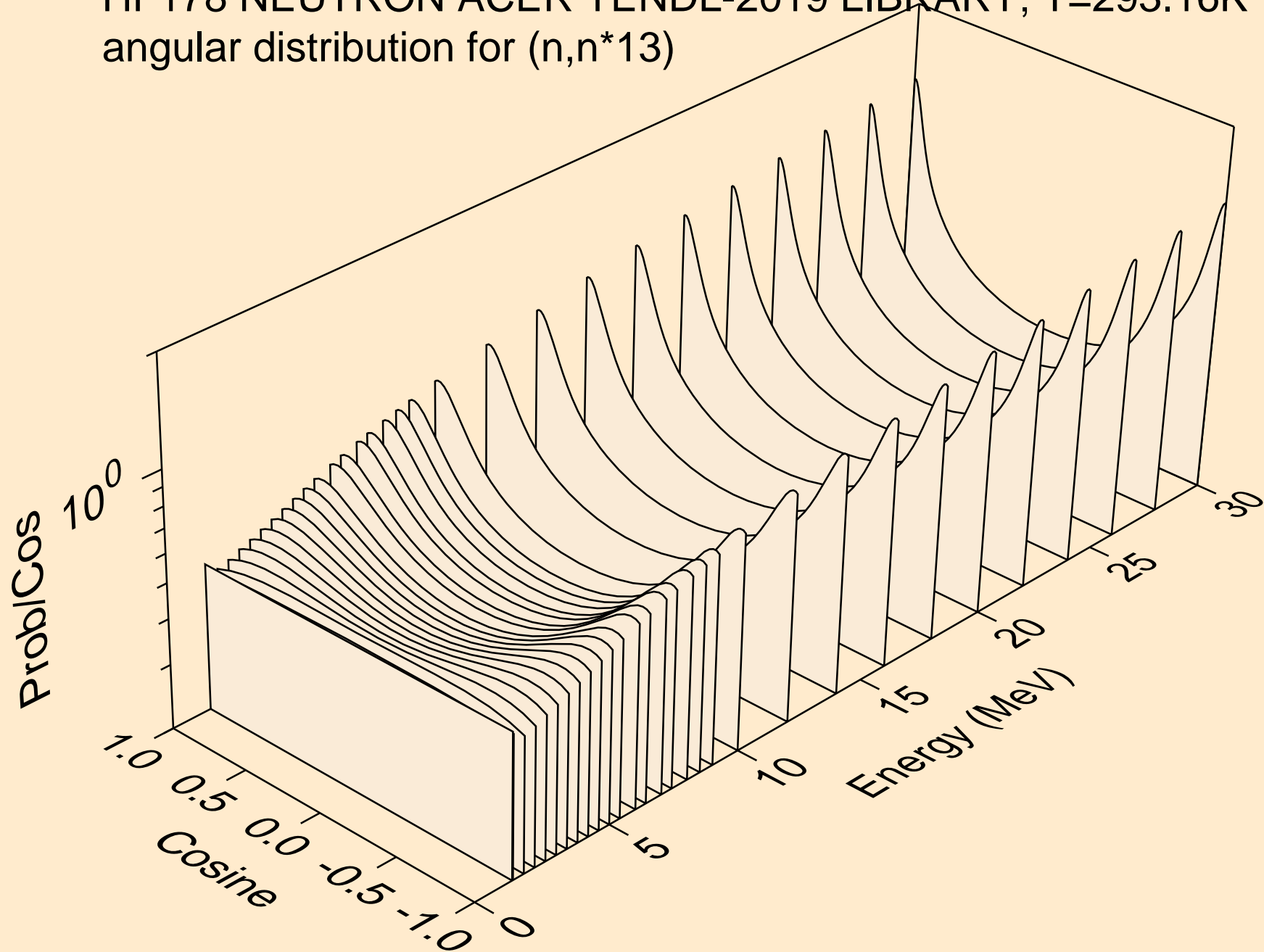
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*11)



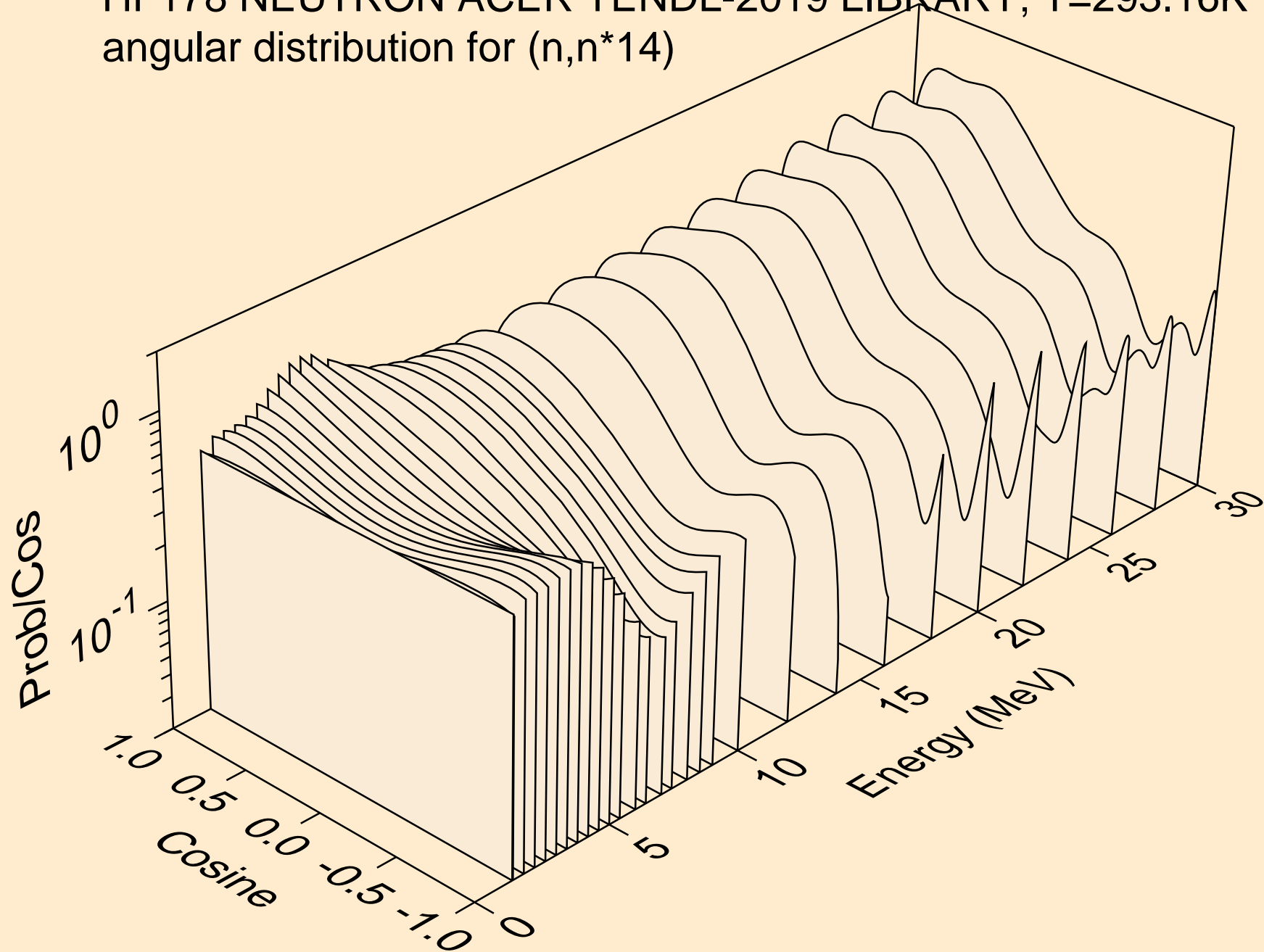
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*12)



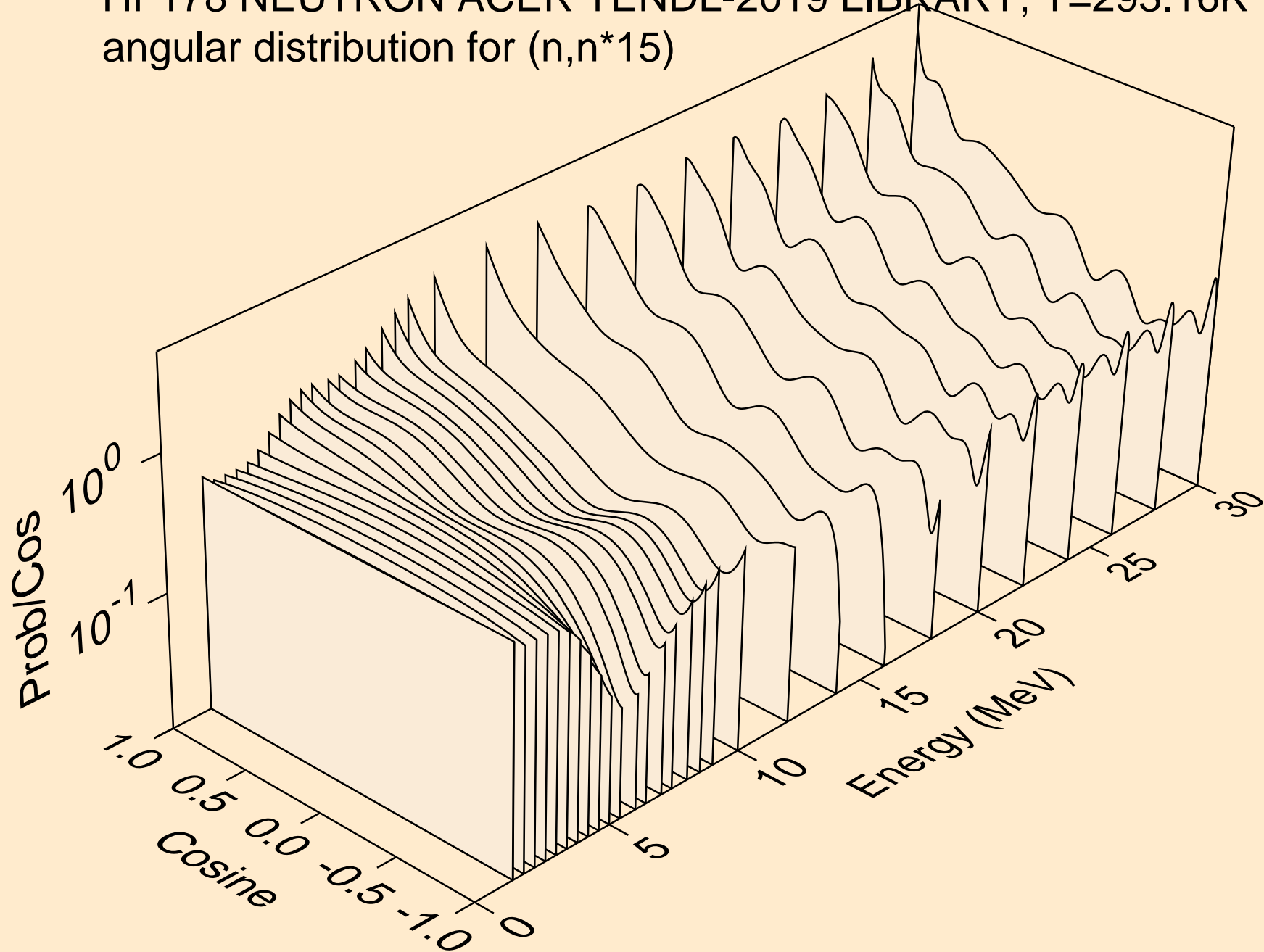
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*13)



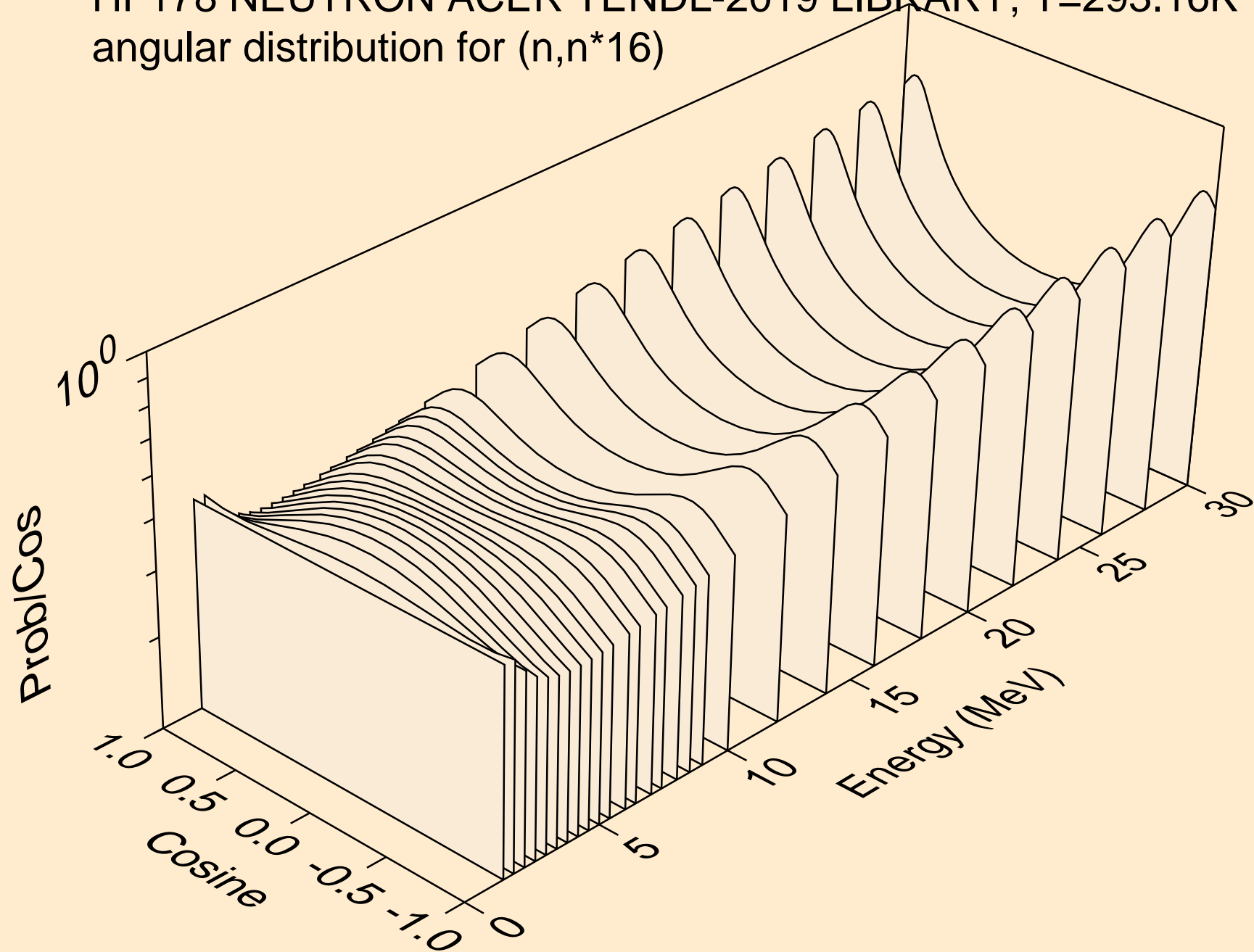
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*14)



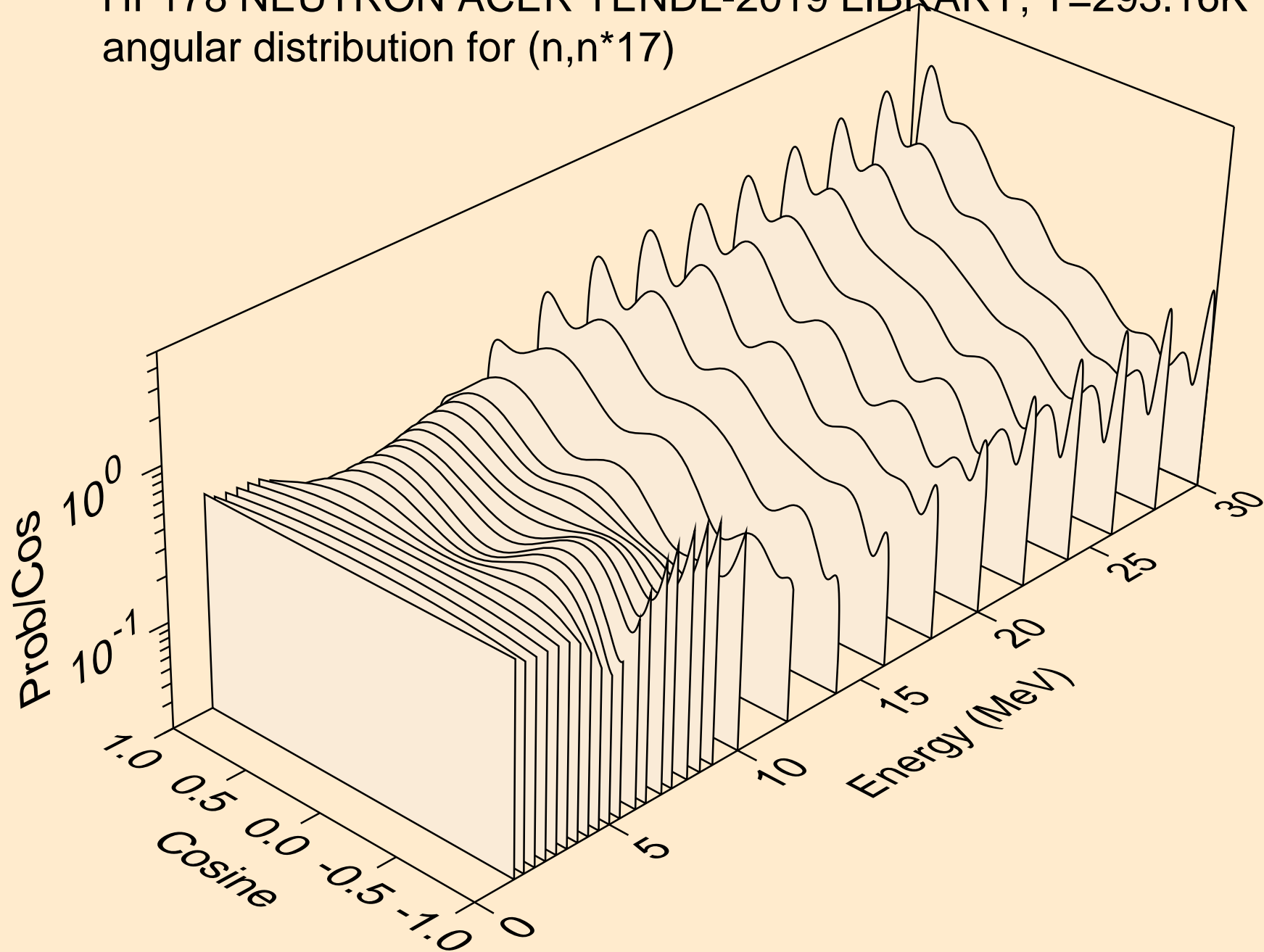
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*15)



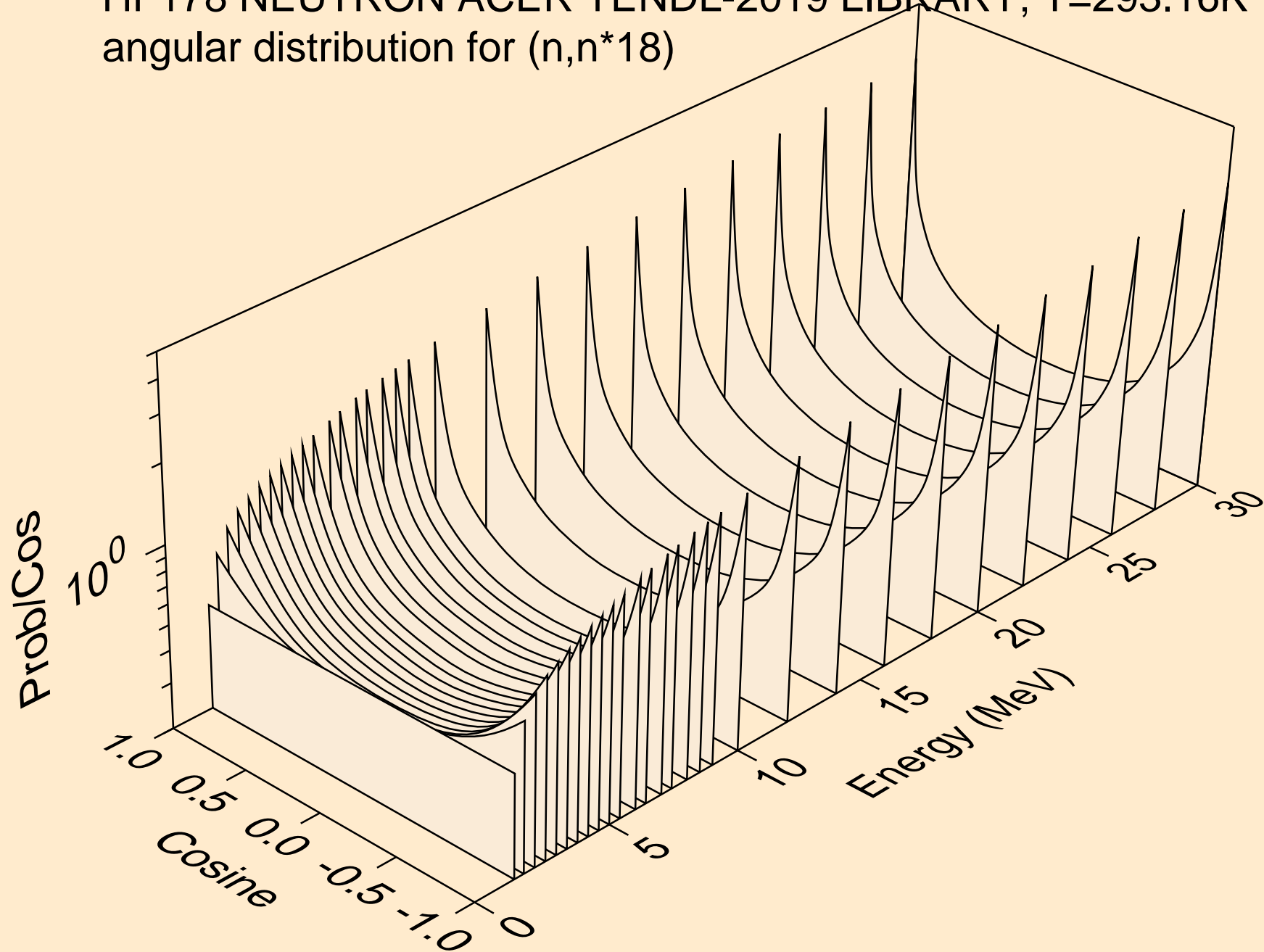
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*16)



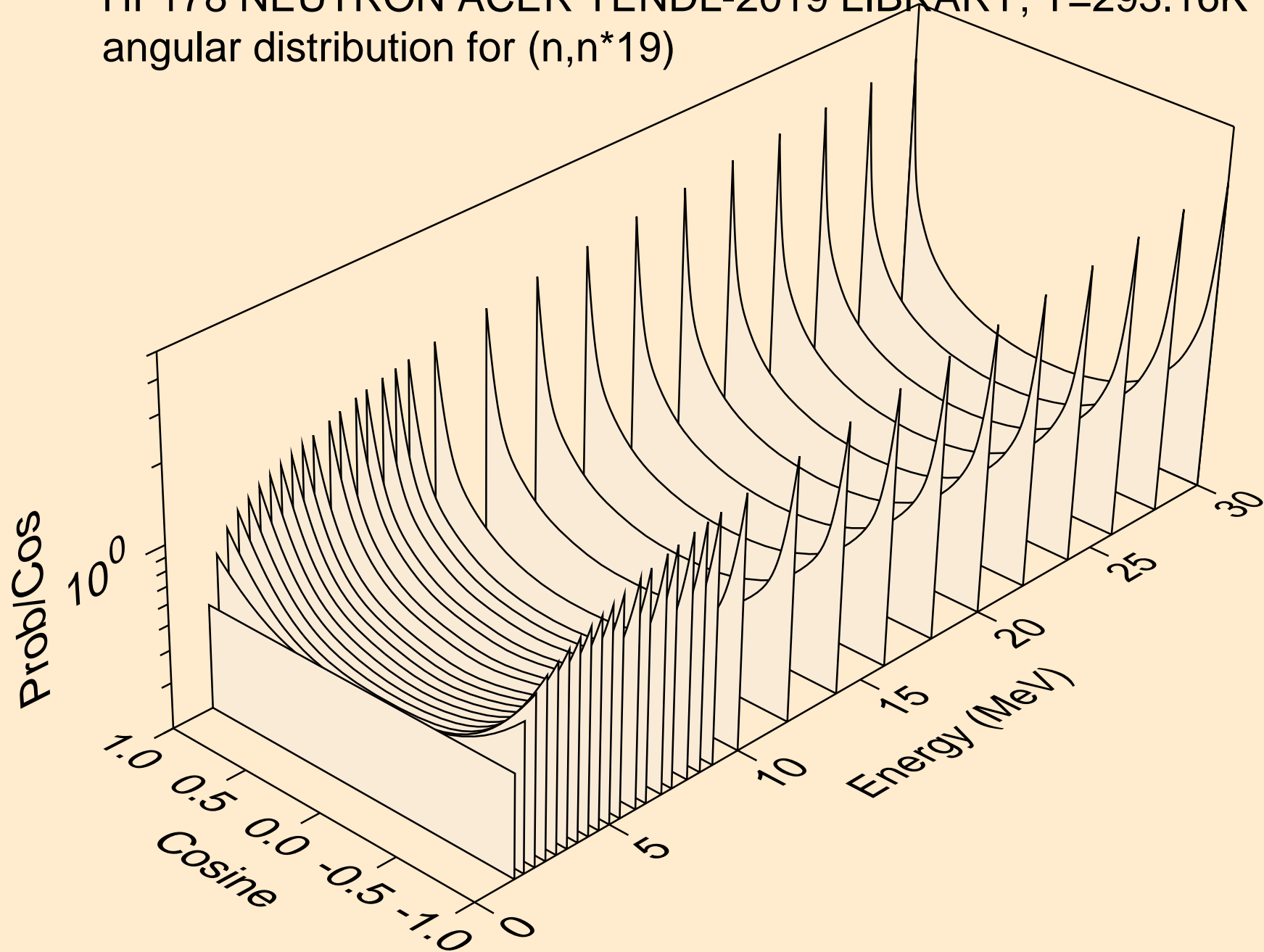
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*17)



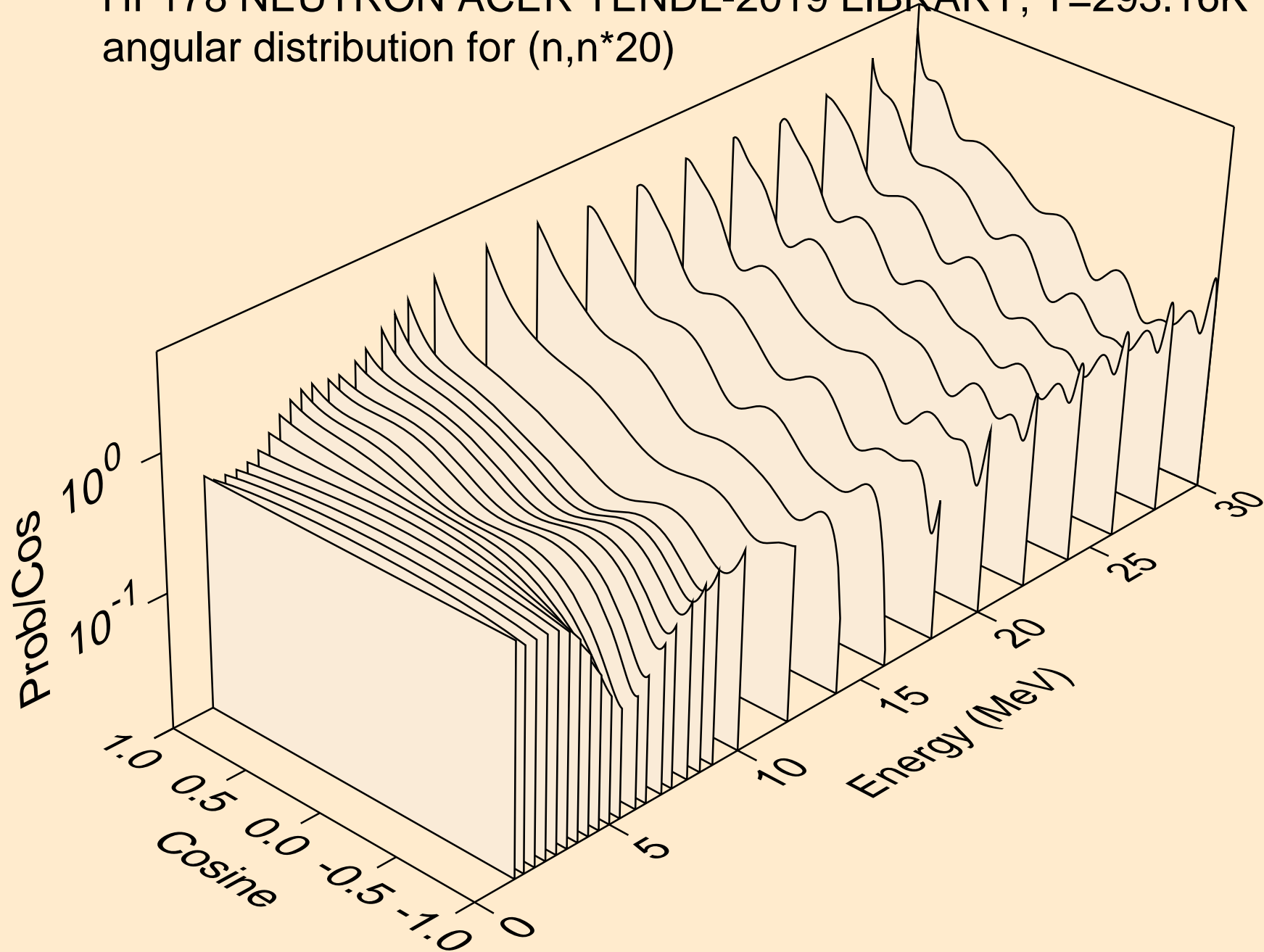
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*18)



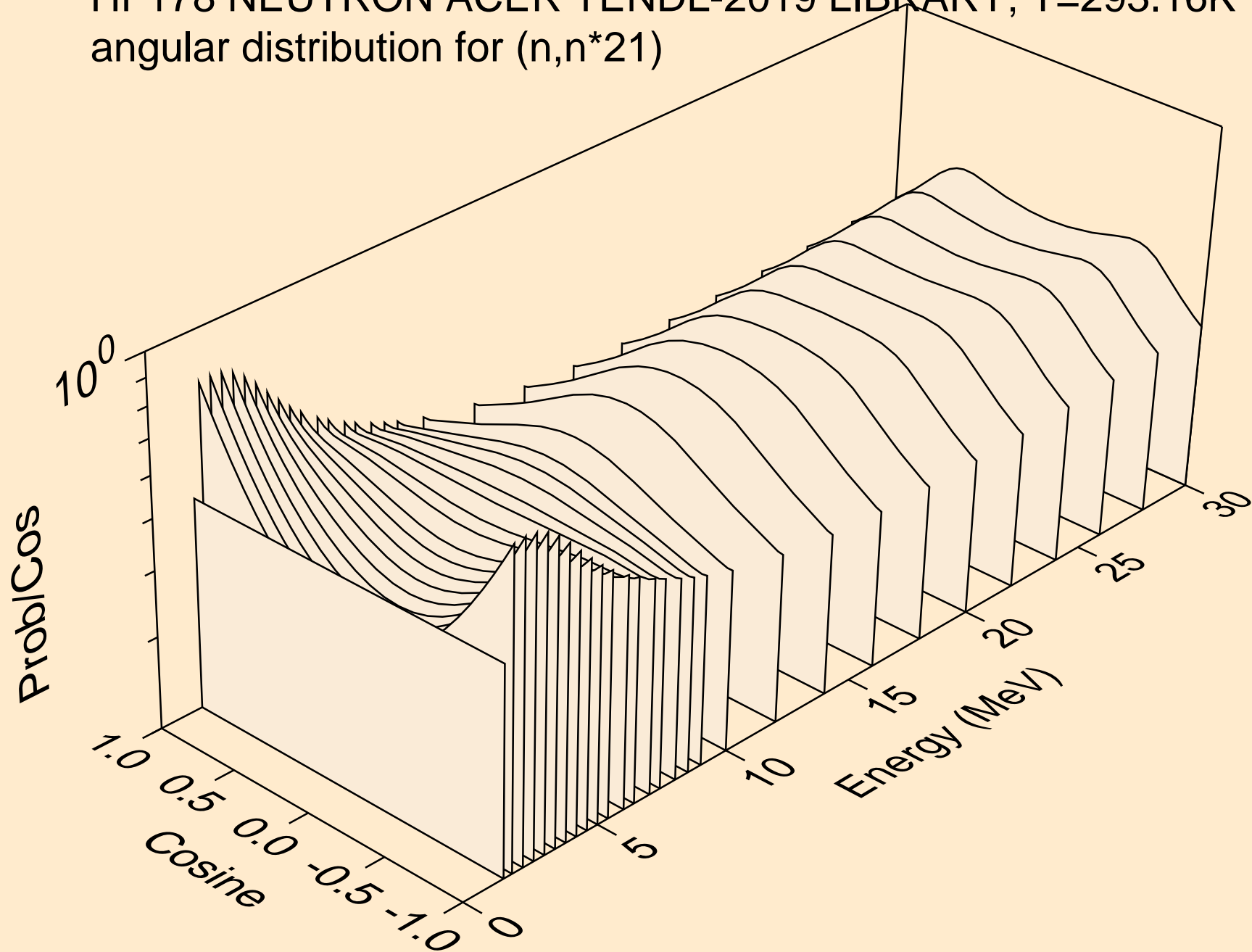
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*19)



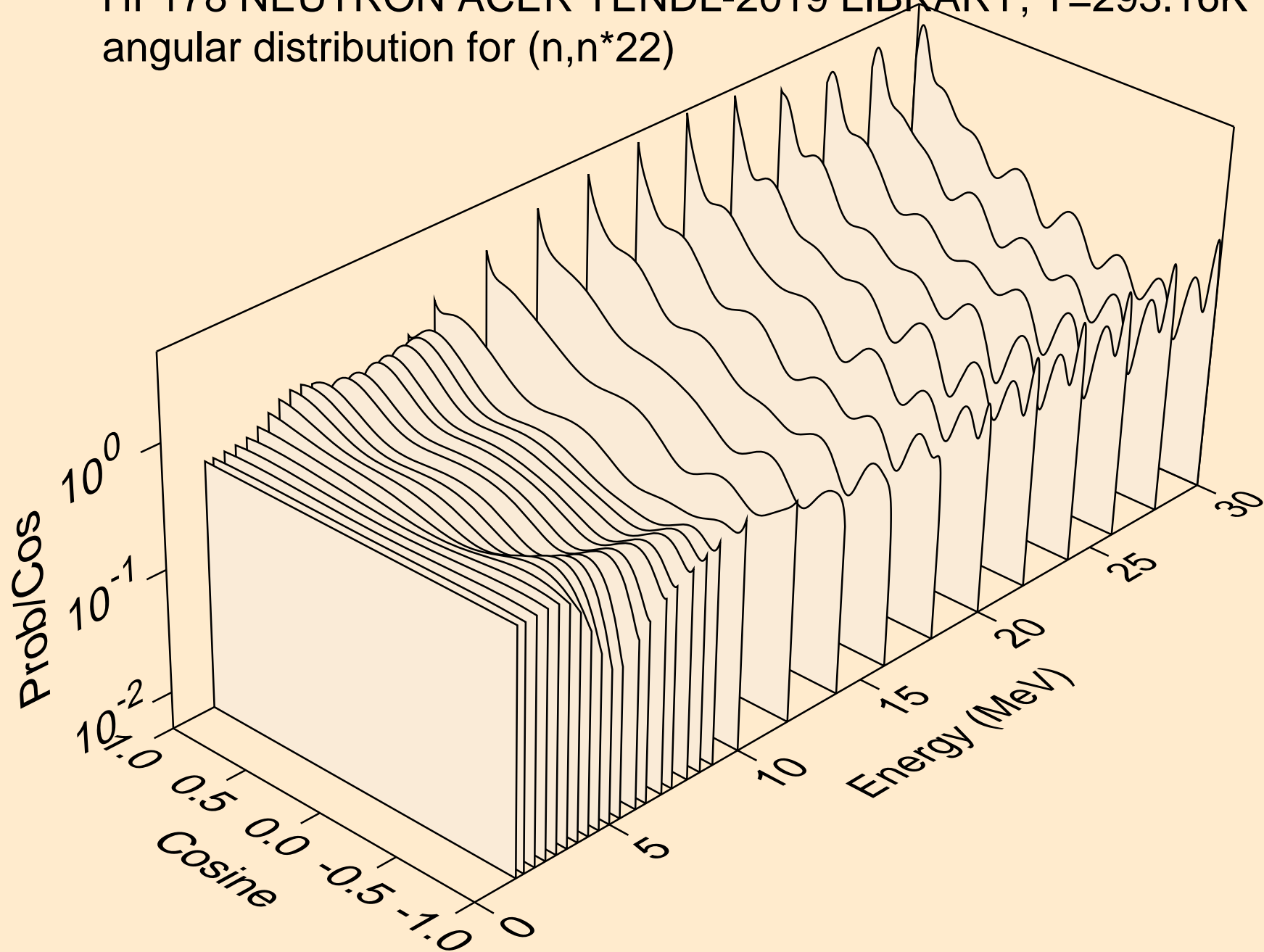
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*20)



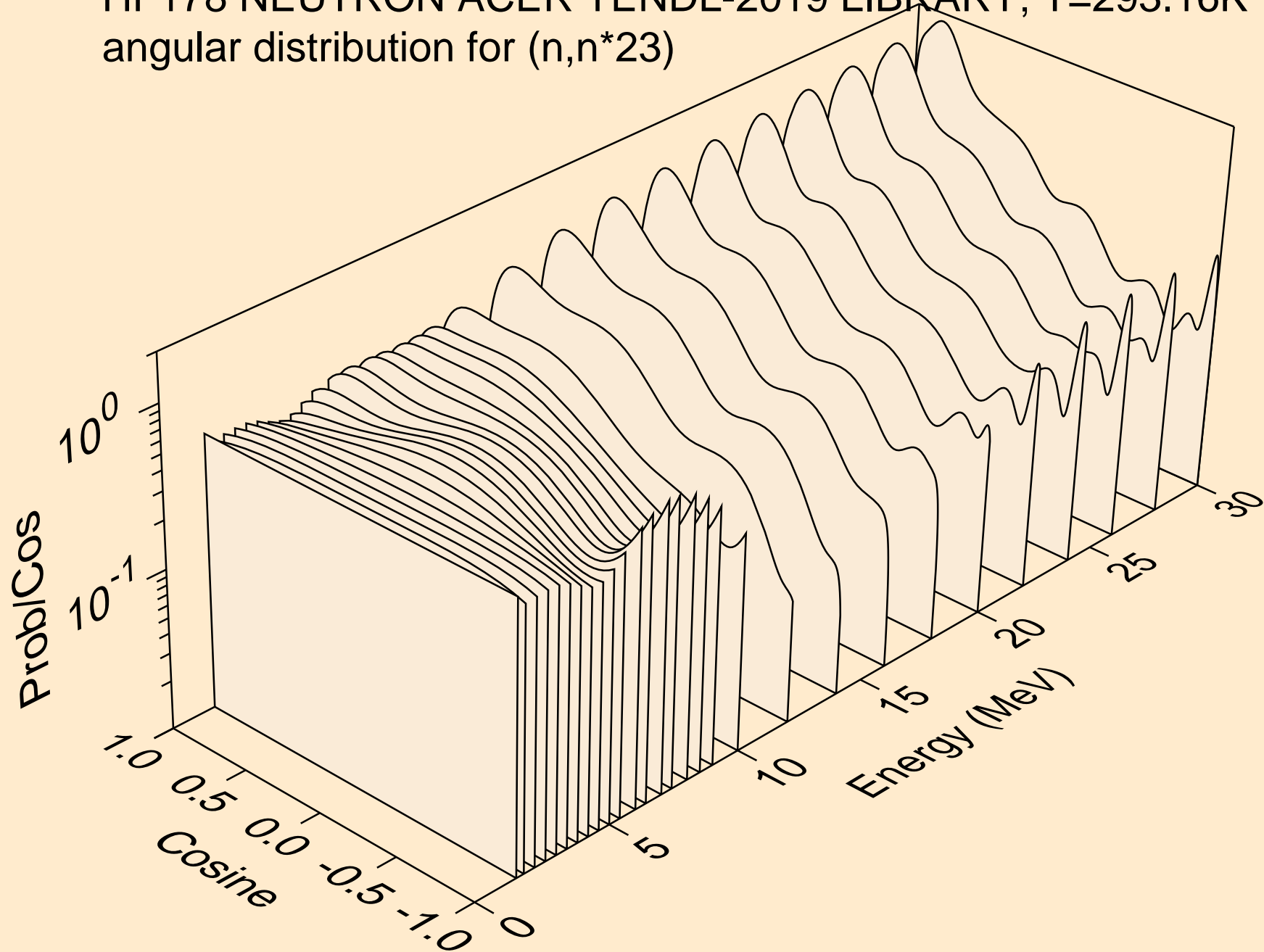
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*21)



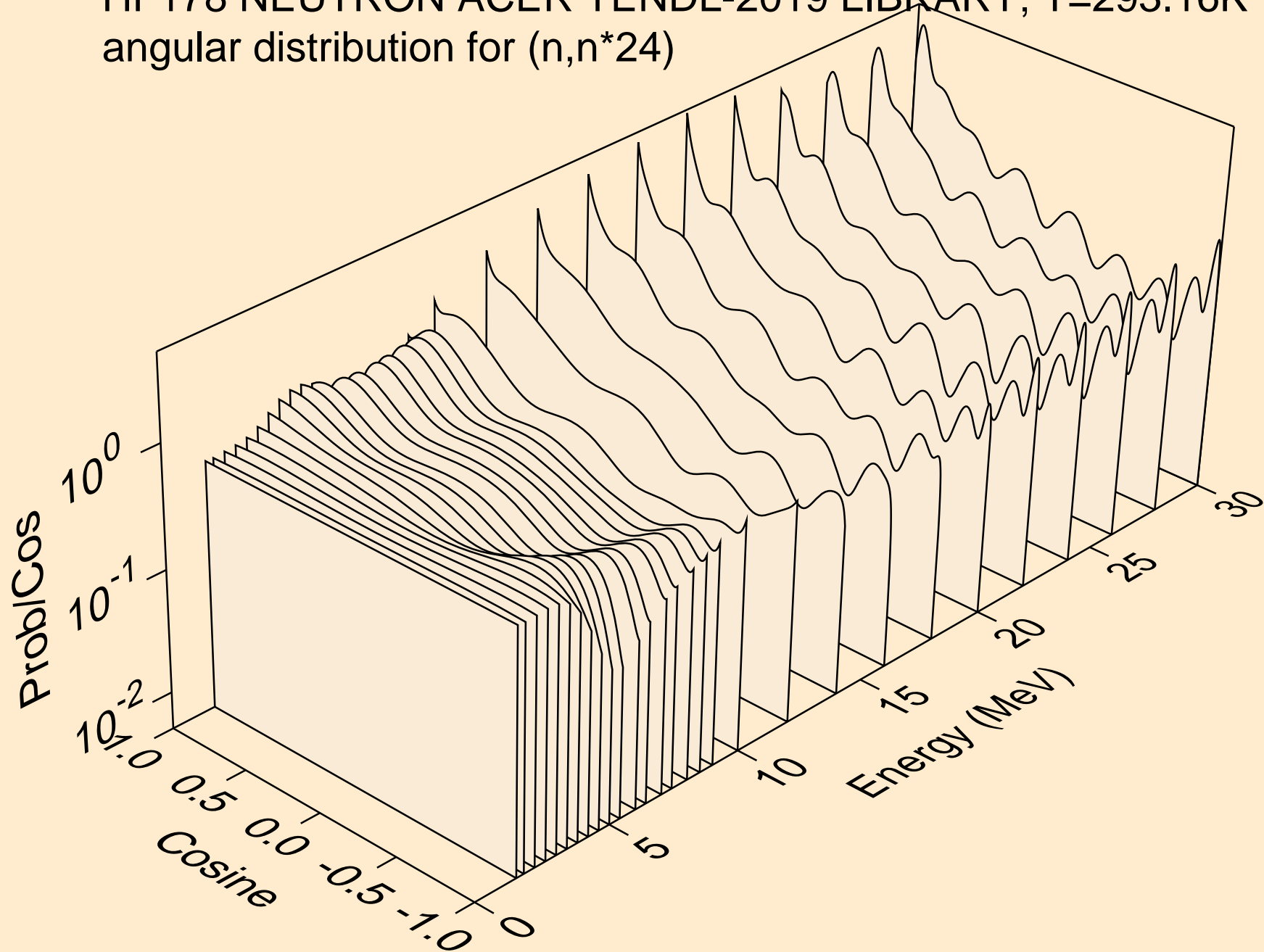
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*22)



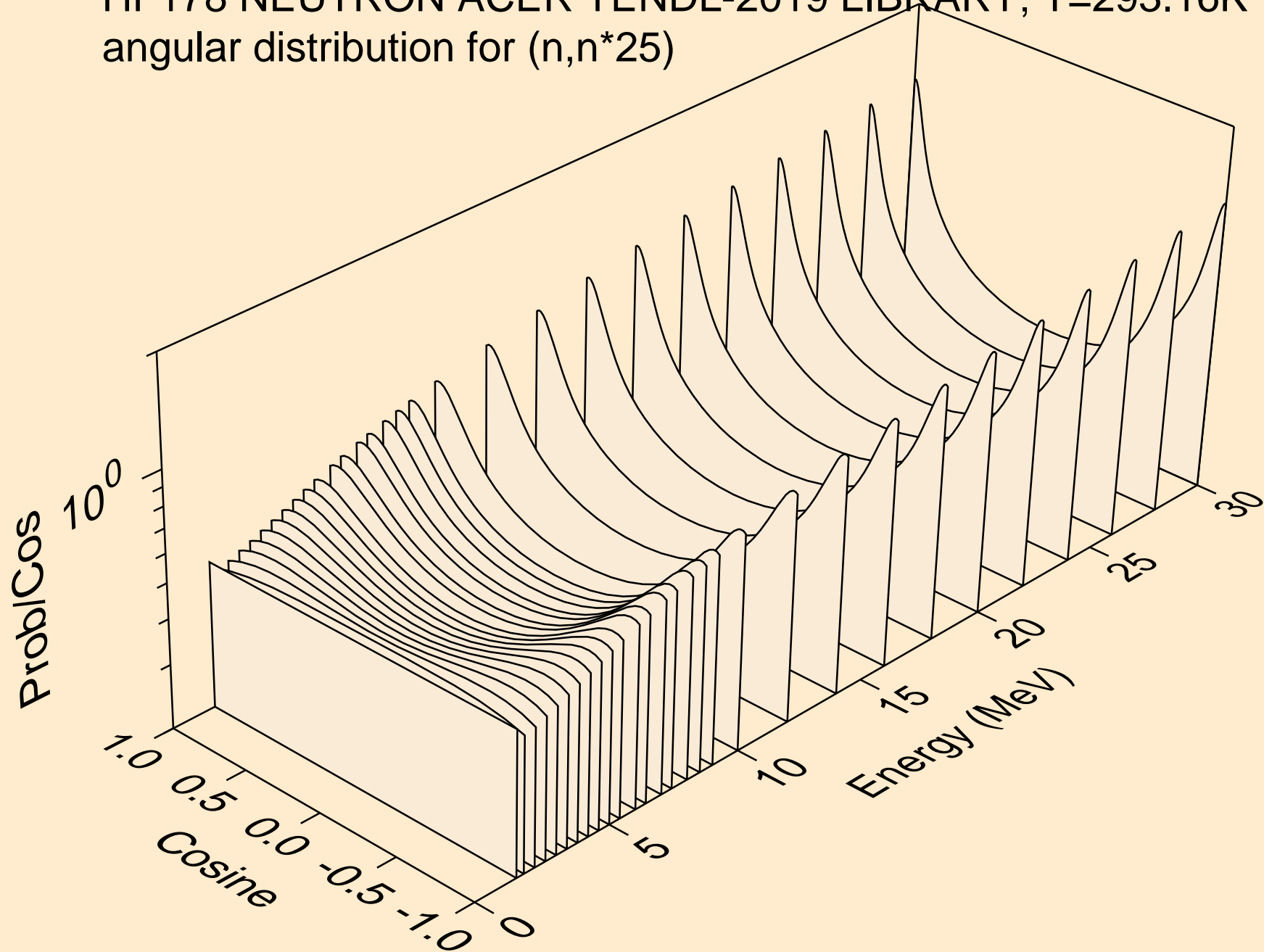
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*23)



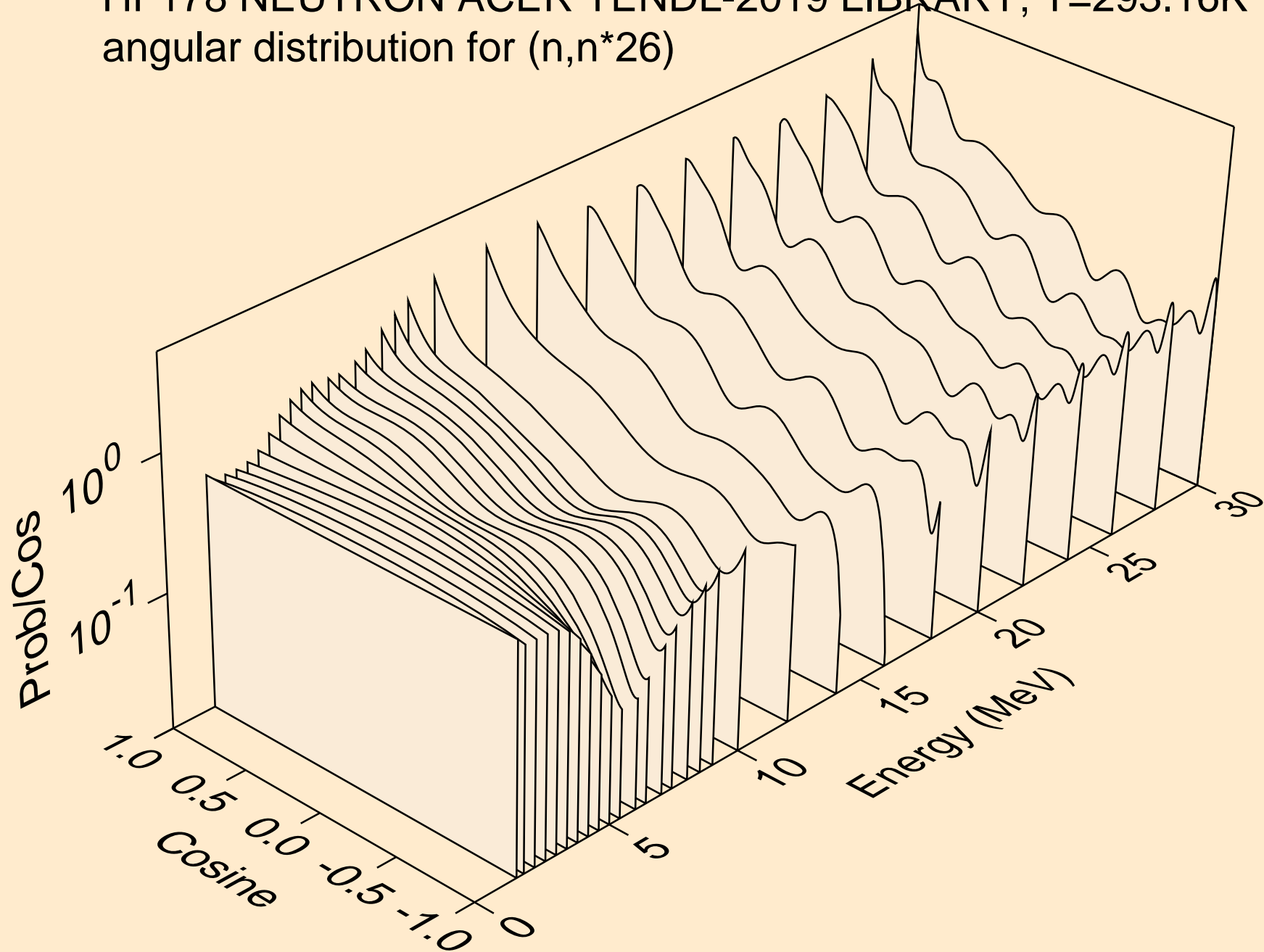
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*24)



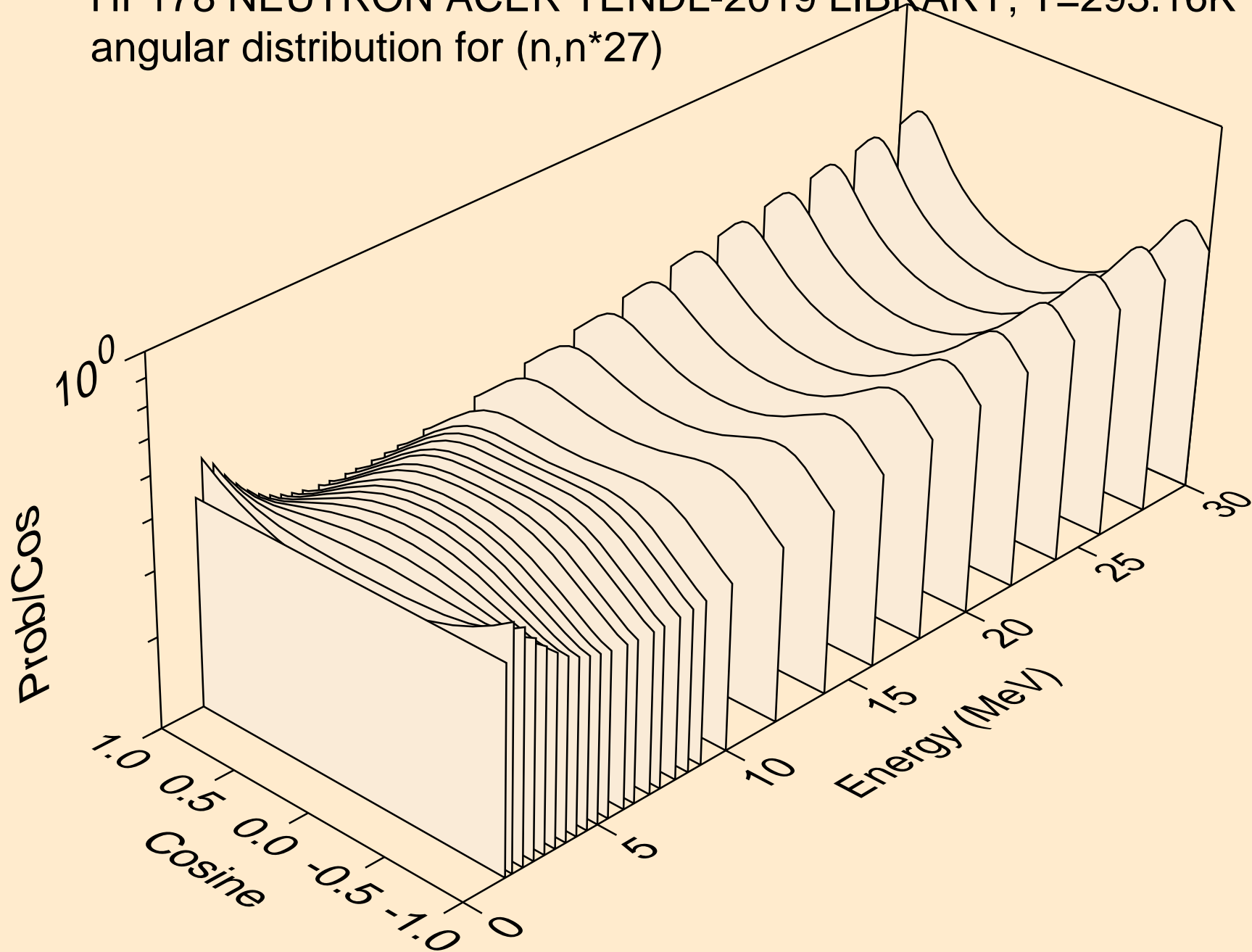
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*25)



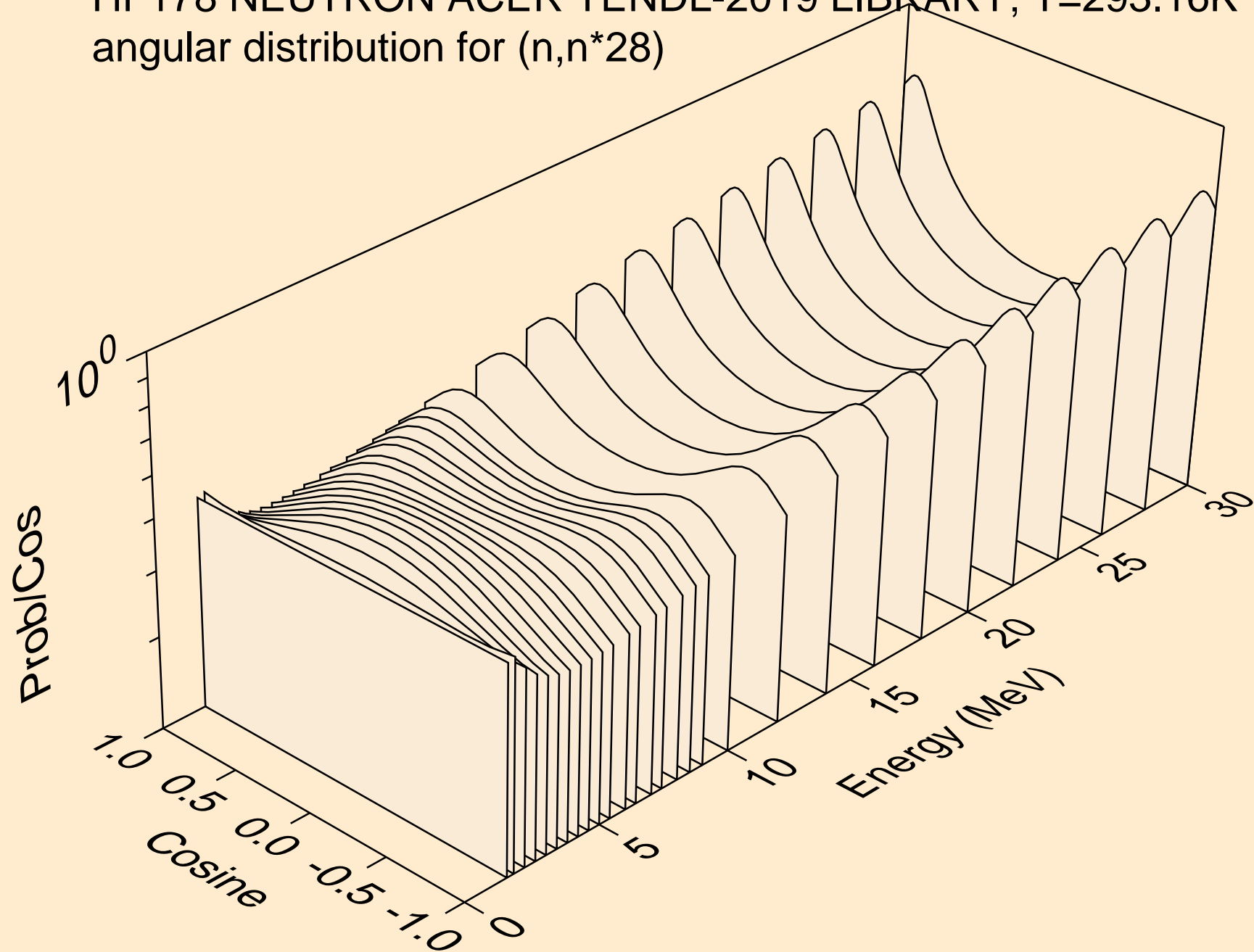
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*26)



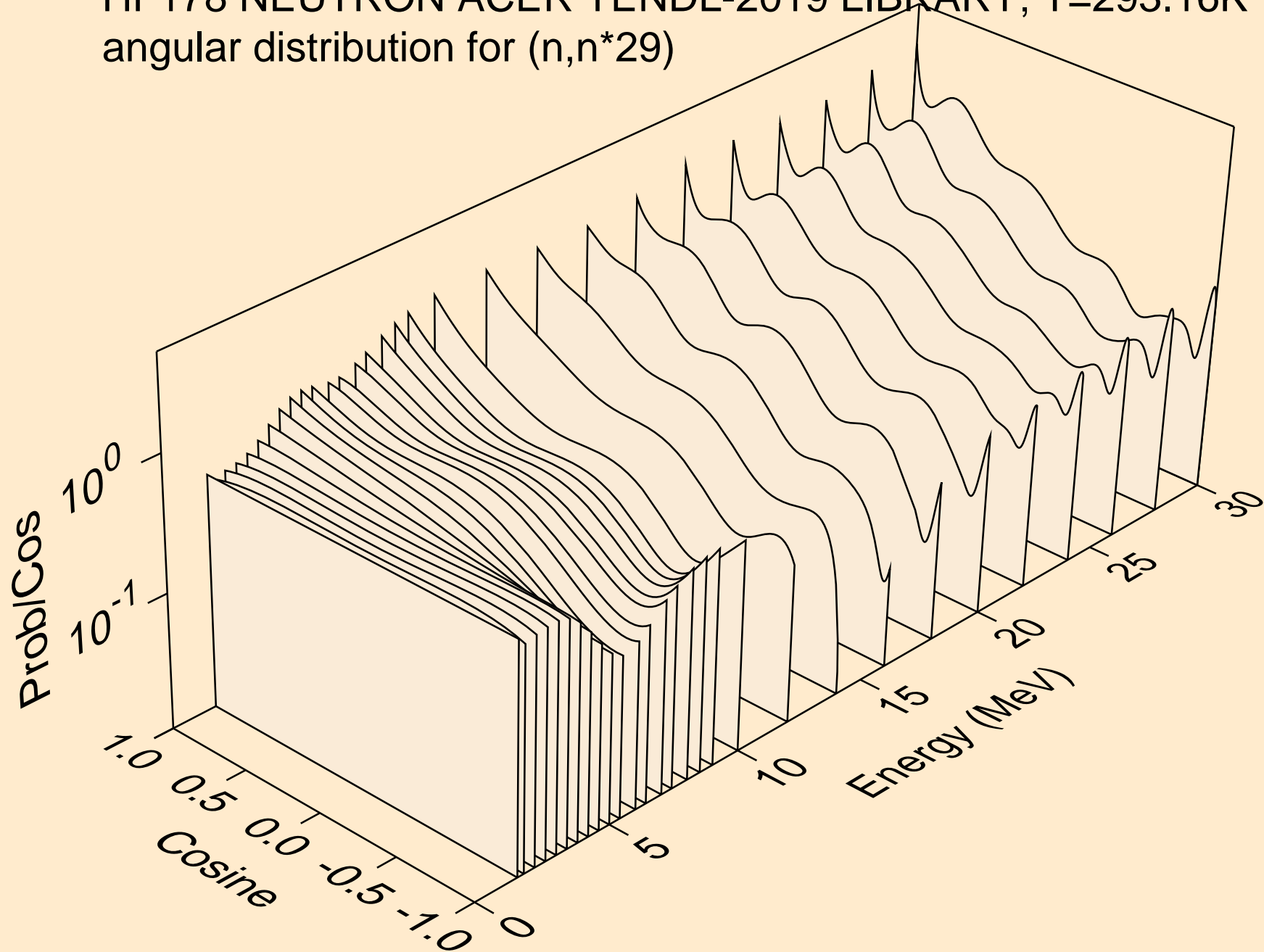
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*27)



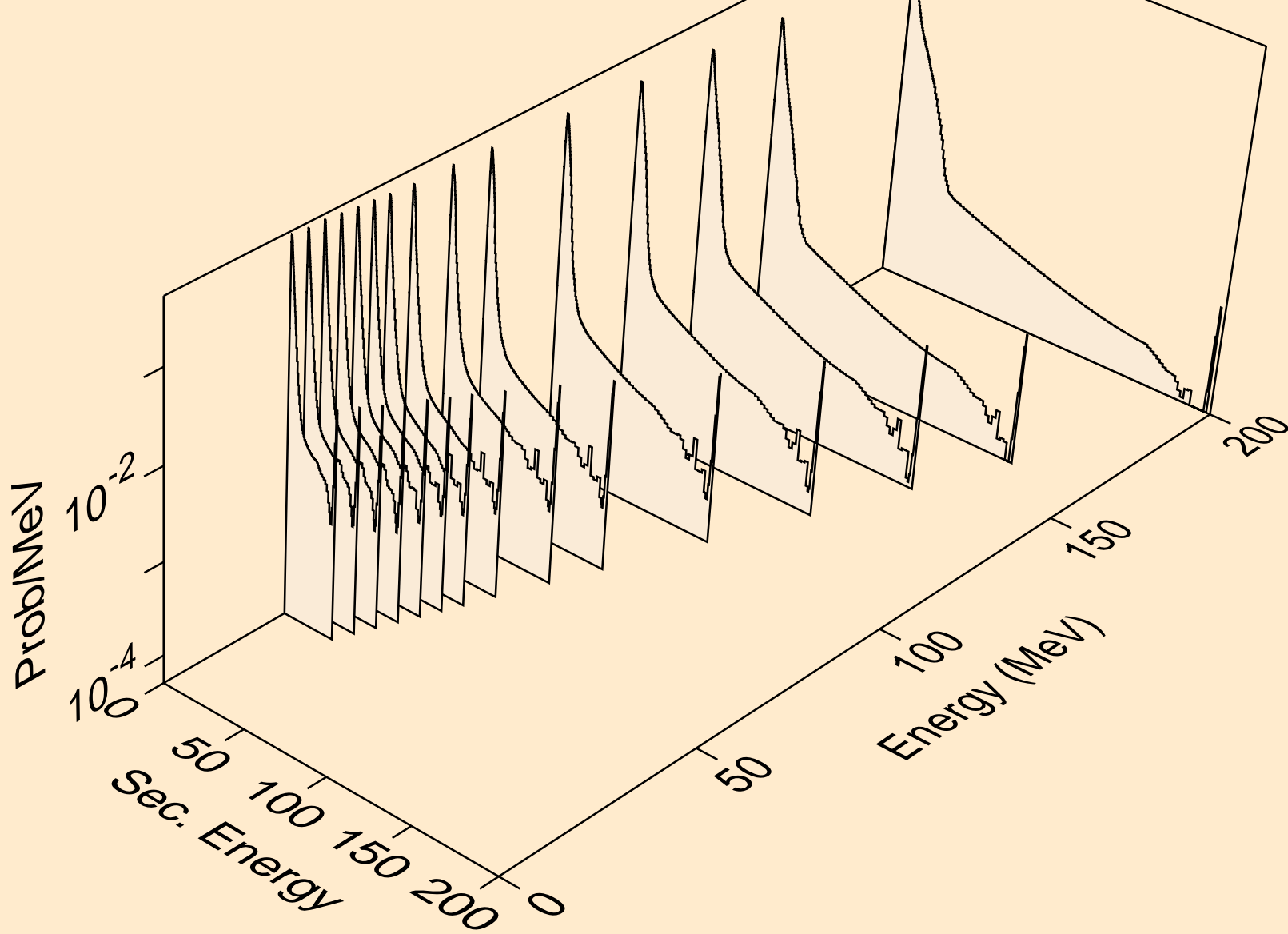
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*28)



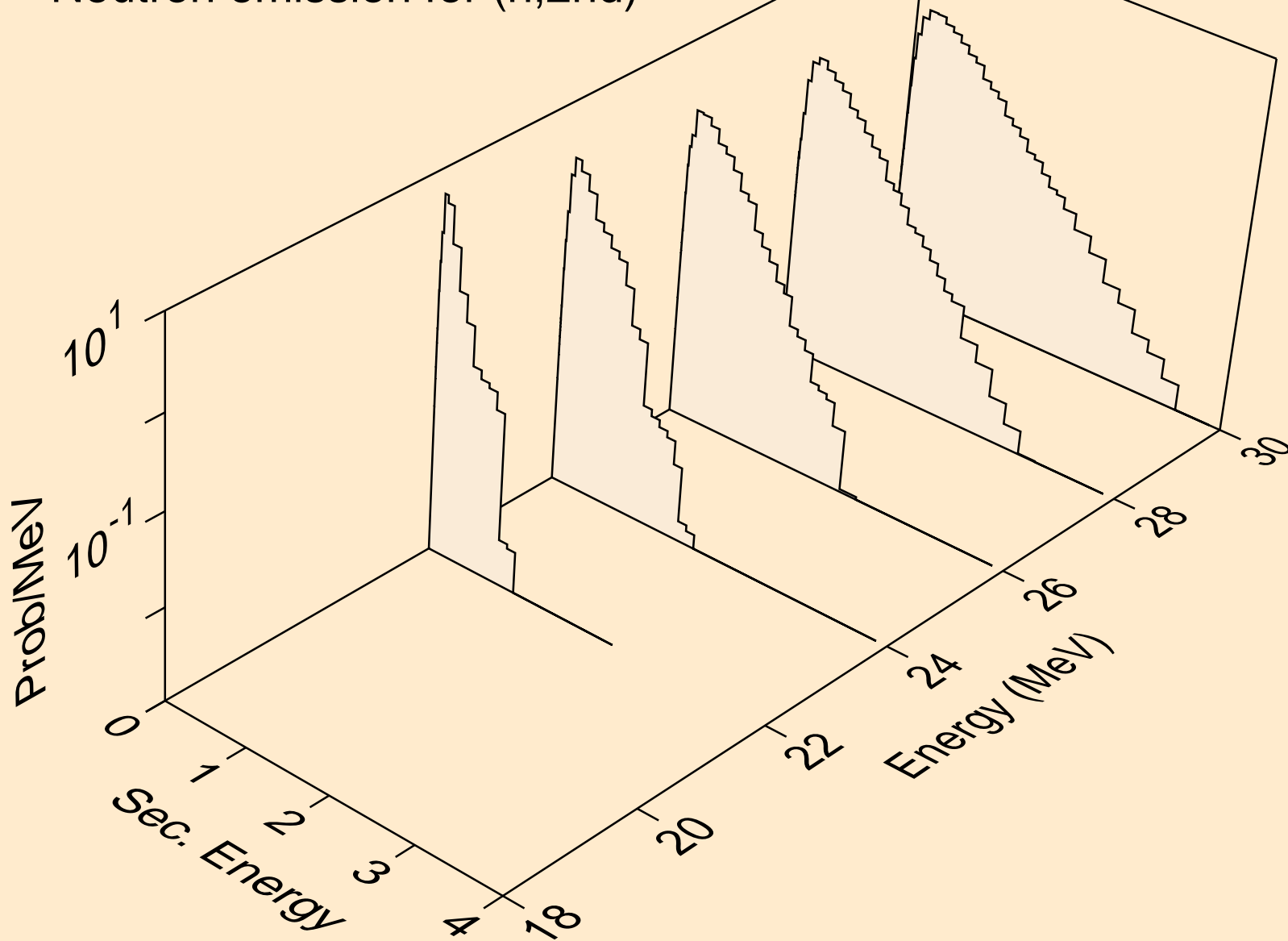
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*29)



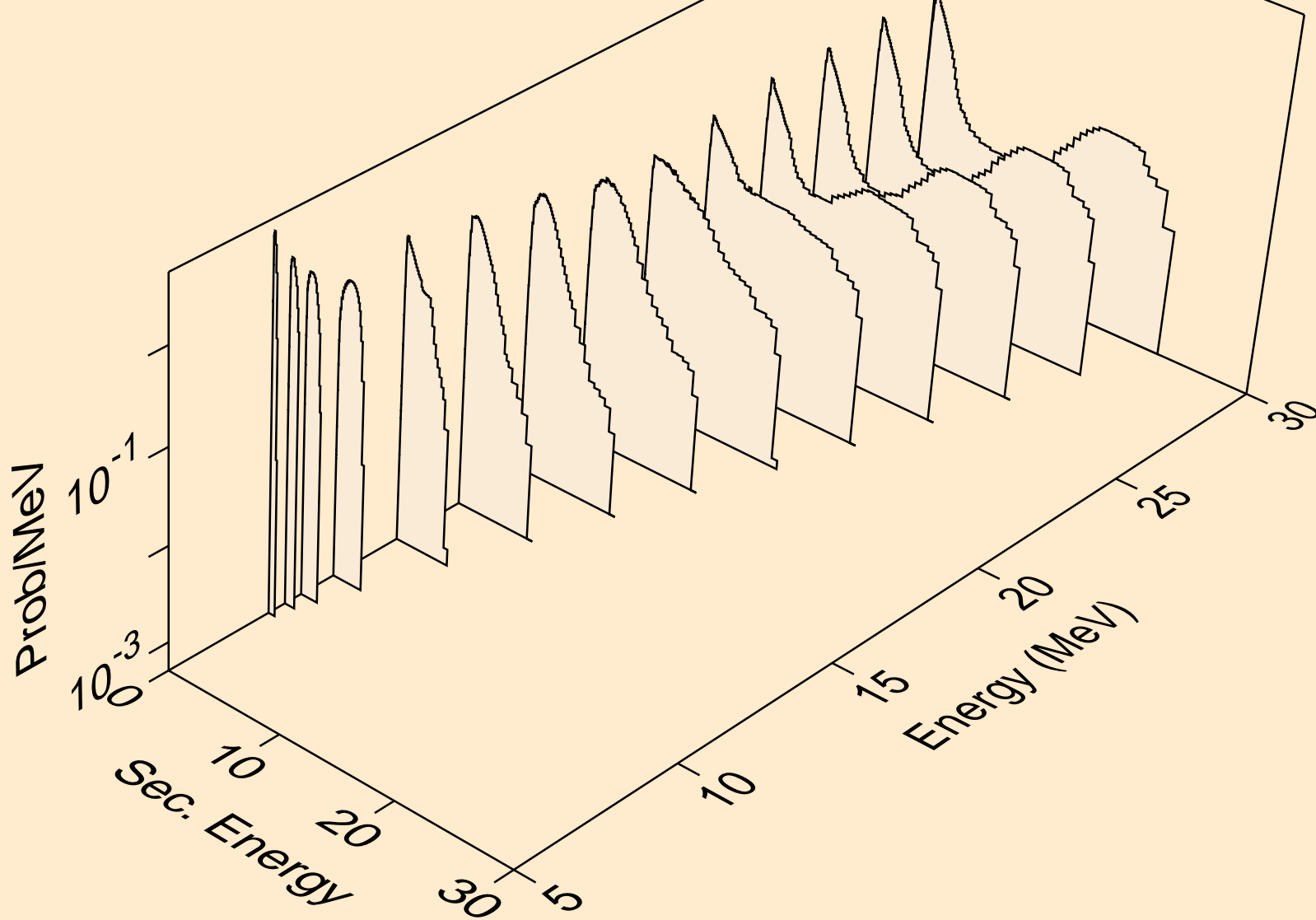
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,x)



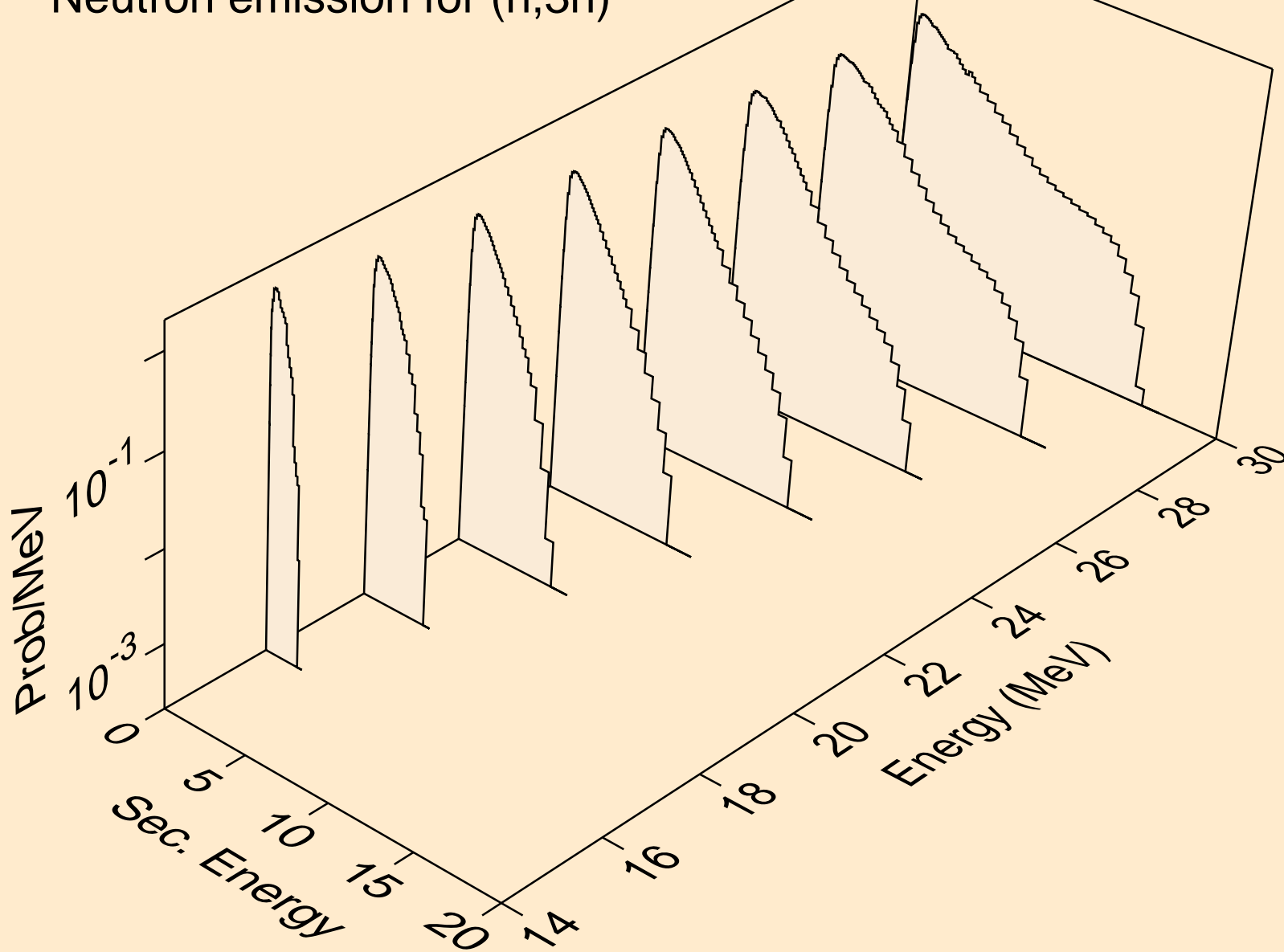
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,2nd)



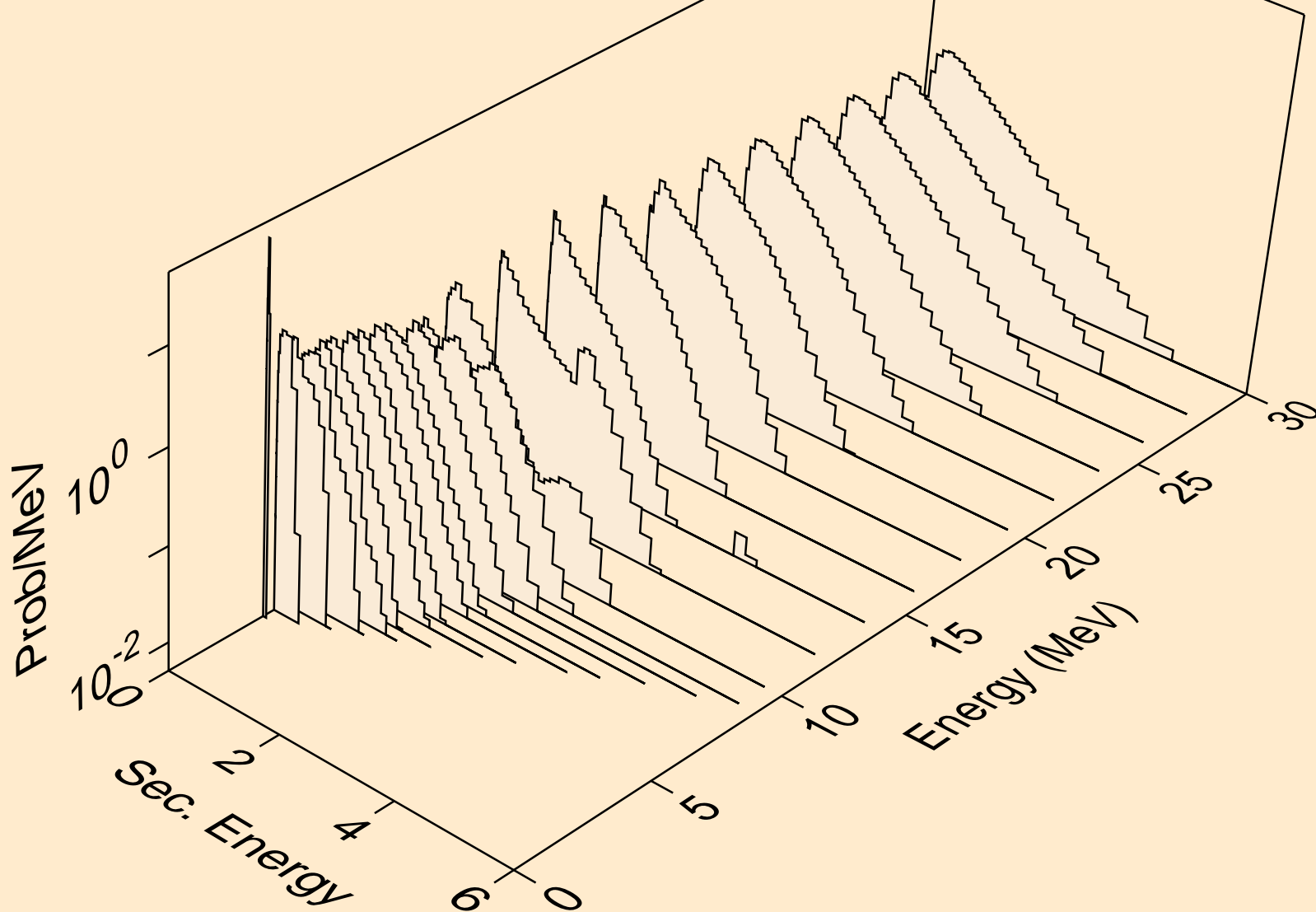
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,2n)



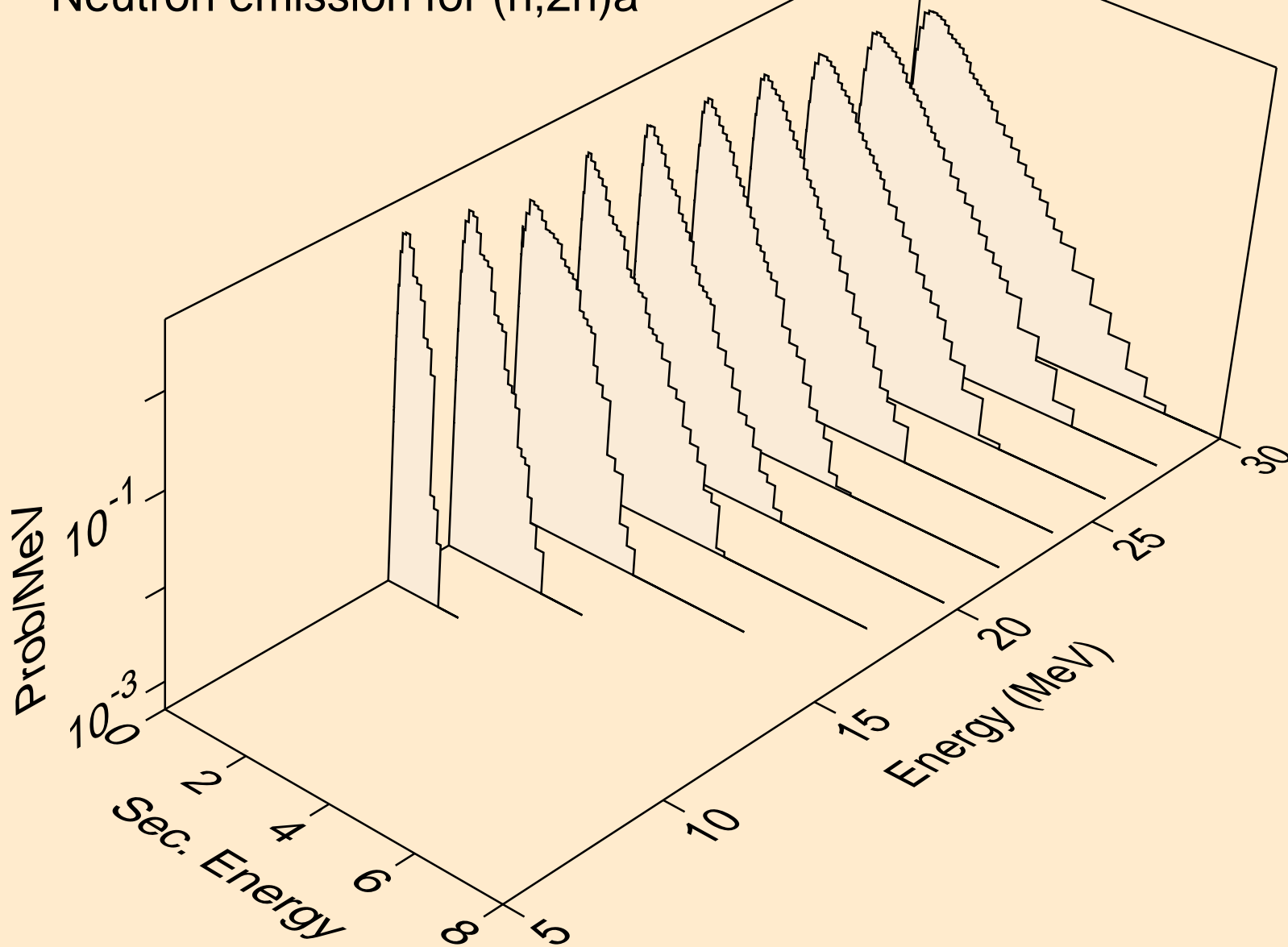
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,3n)



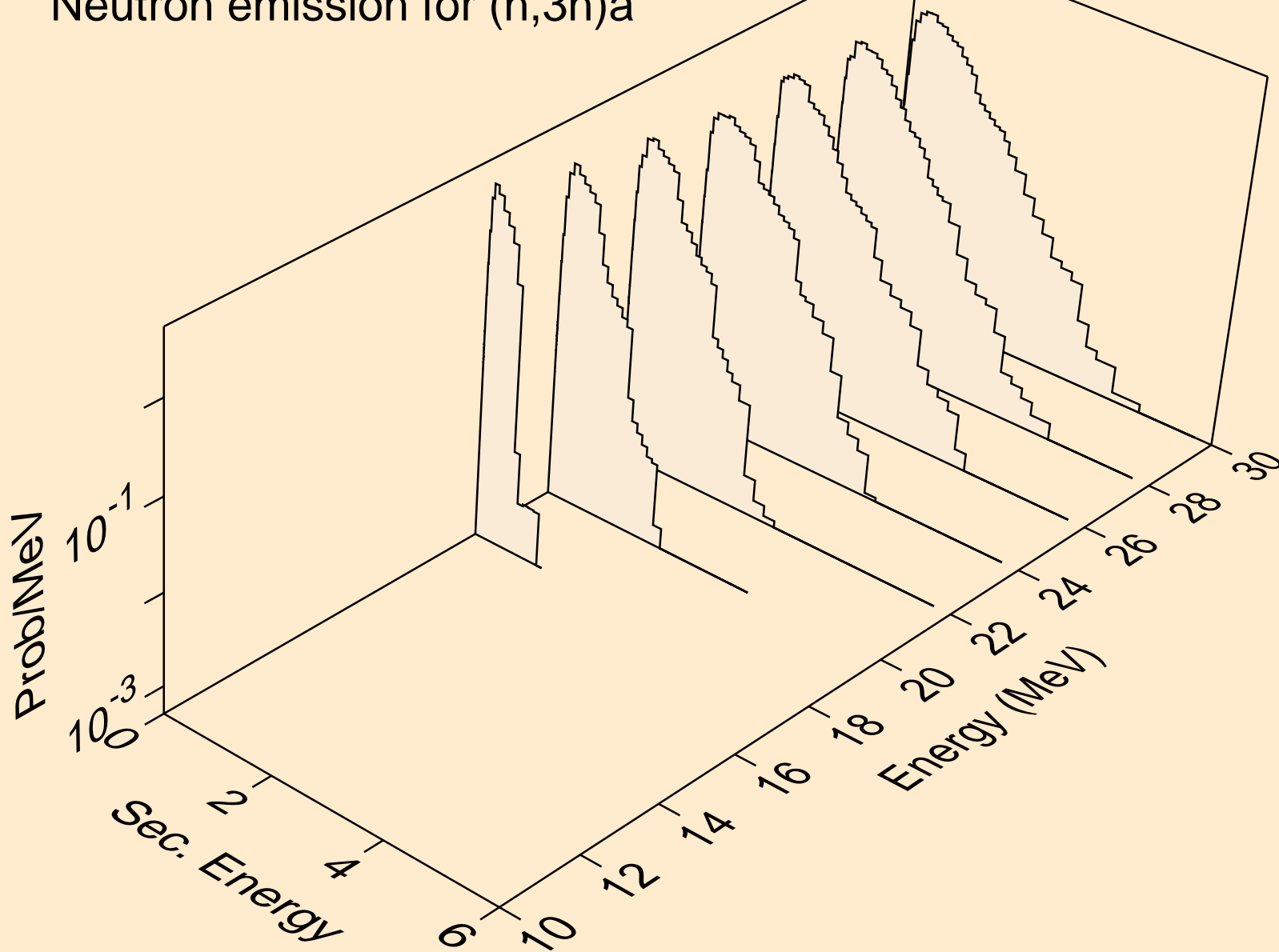
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,n*)a



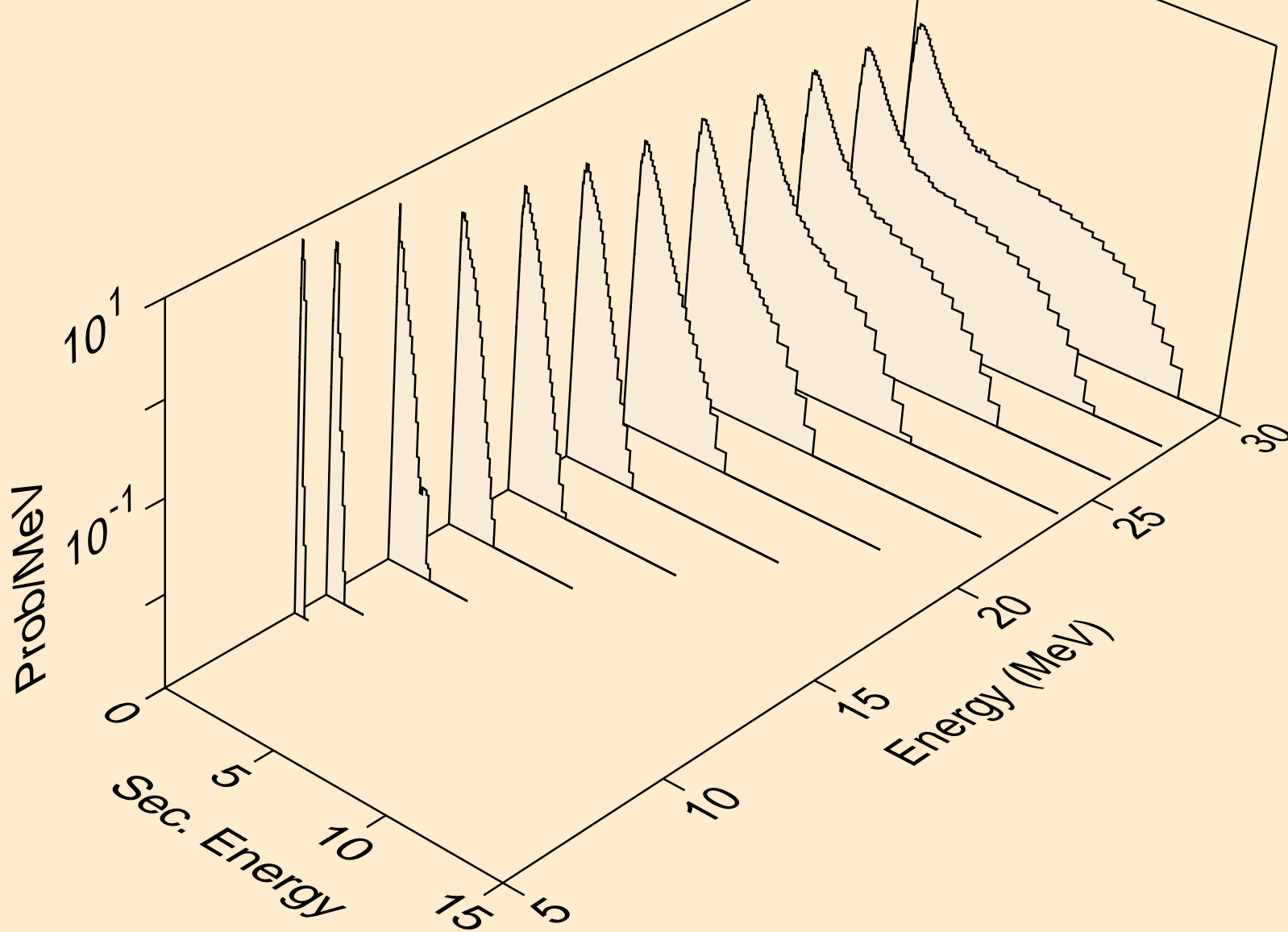
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,2n)a



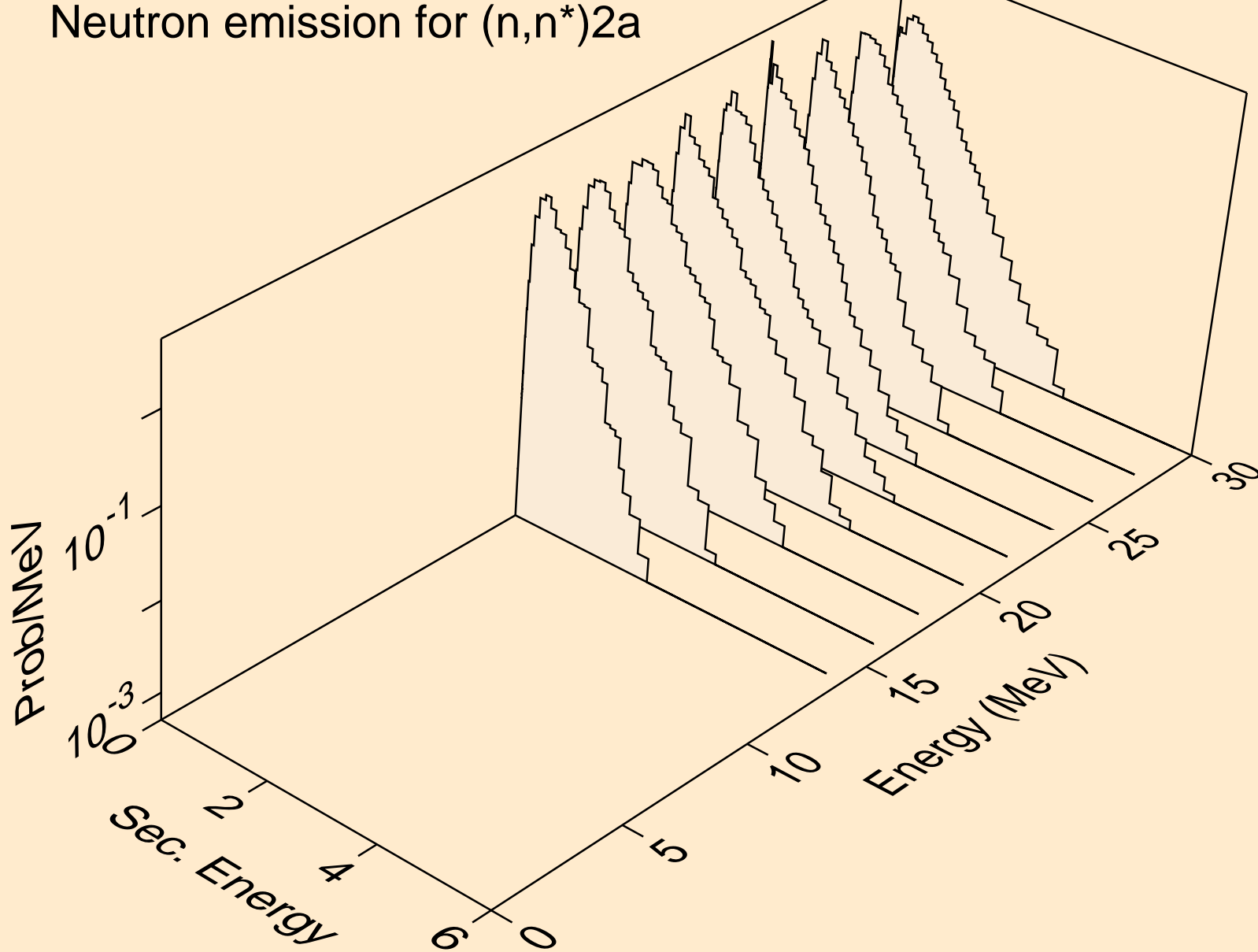
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,3n)a



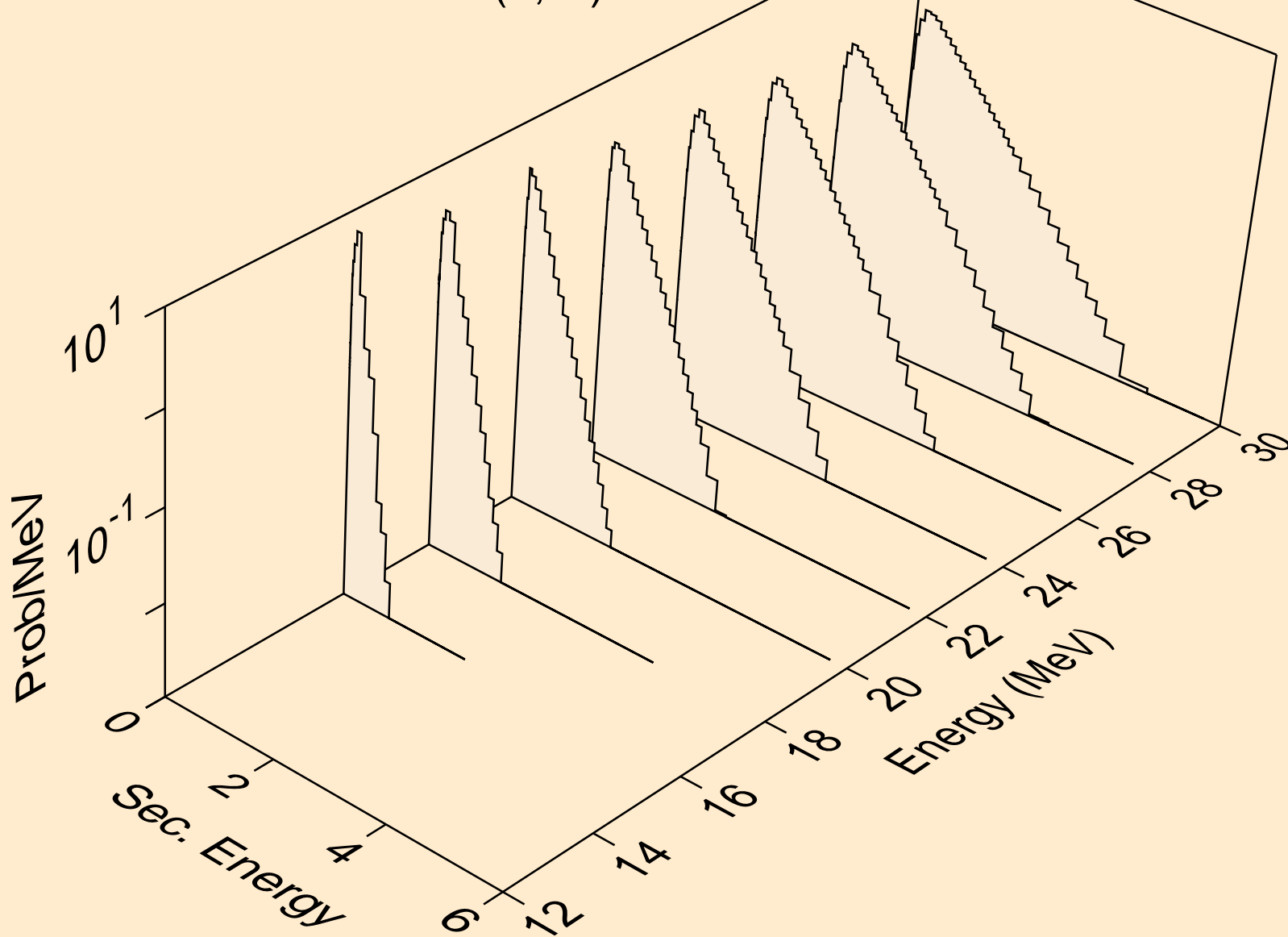
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,n*)p



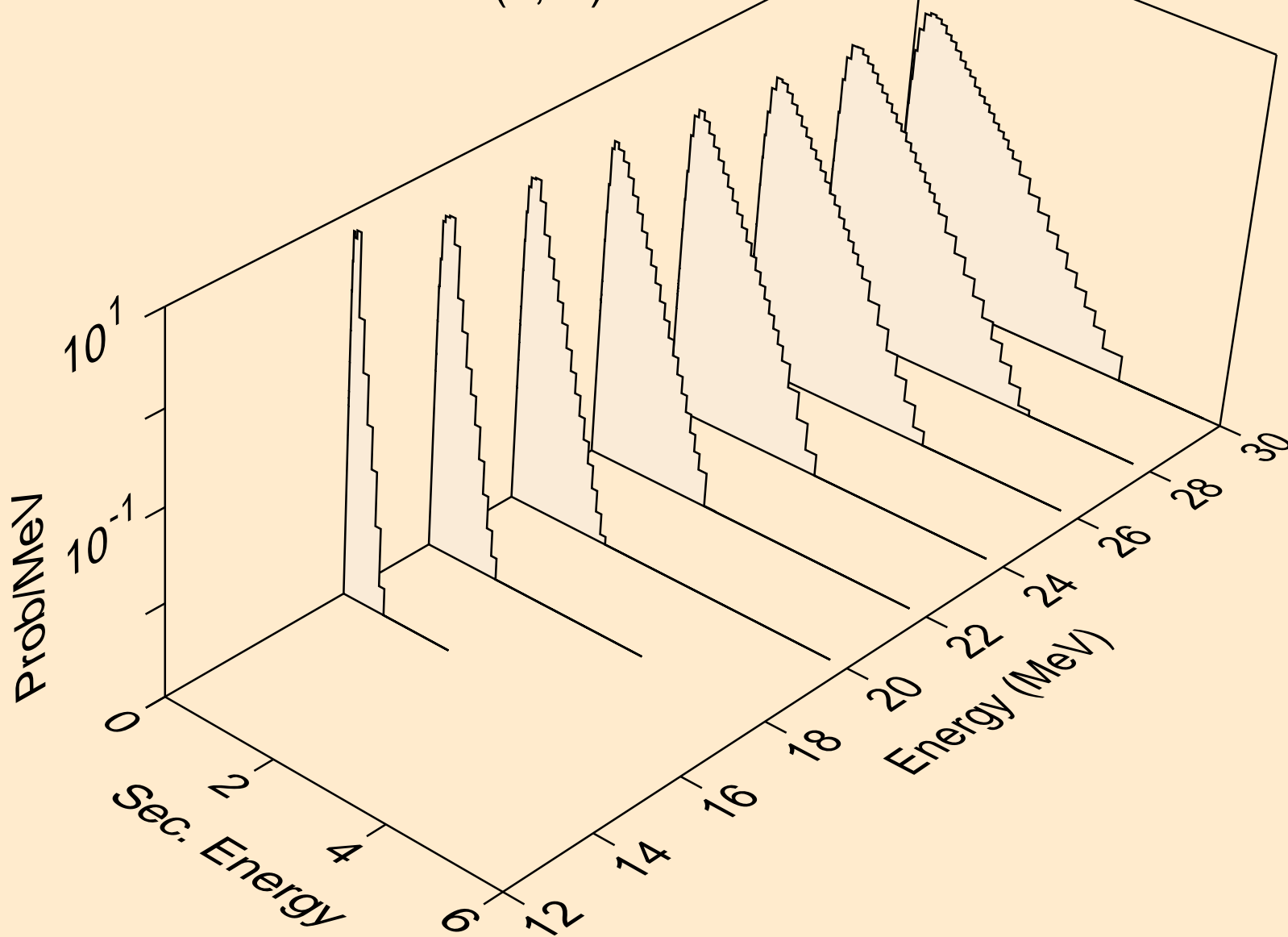
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,n*)2a



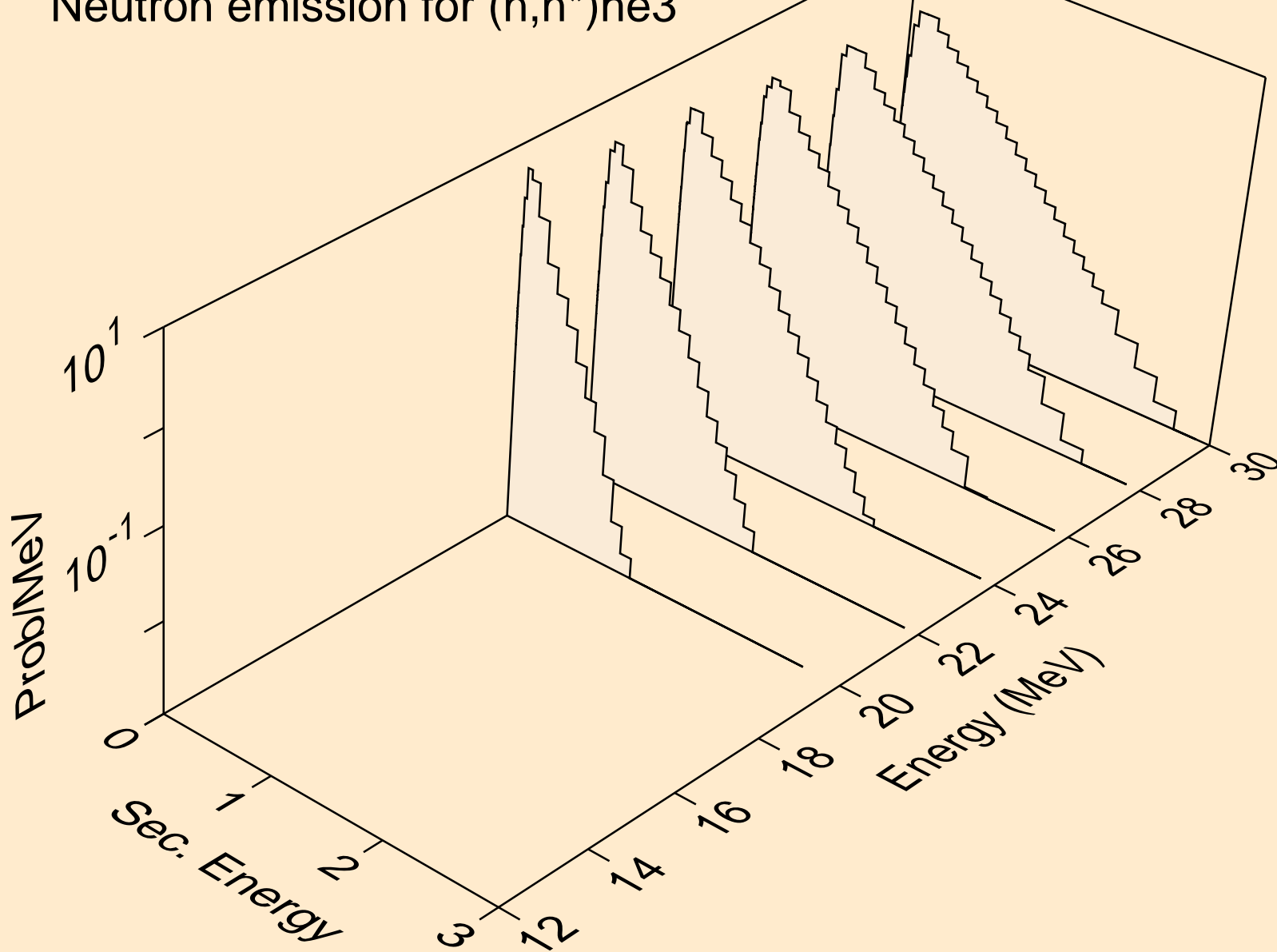
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,n*)d



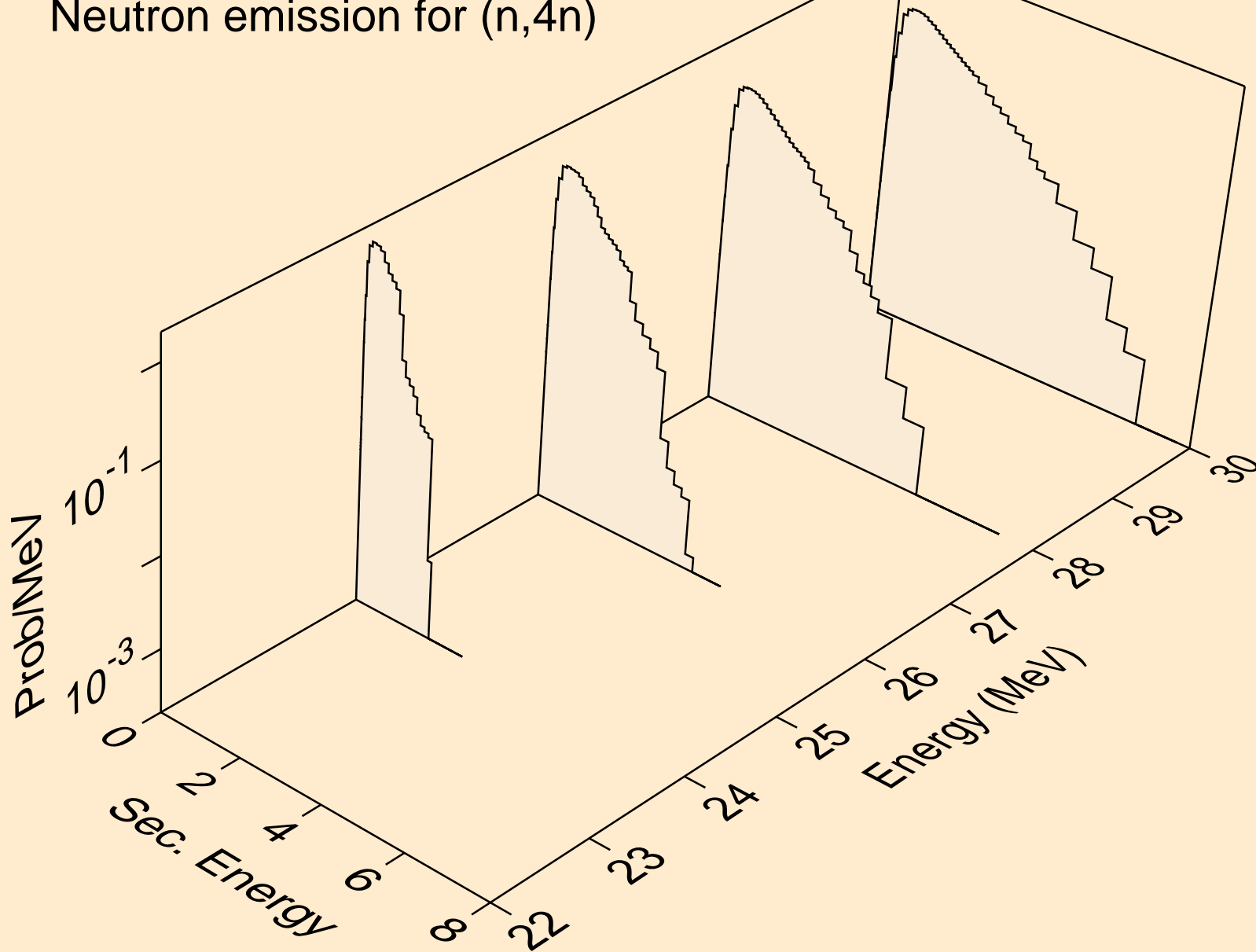
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,n*)t



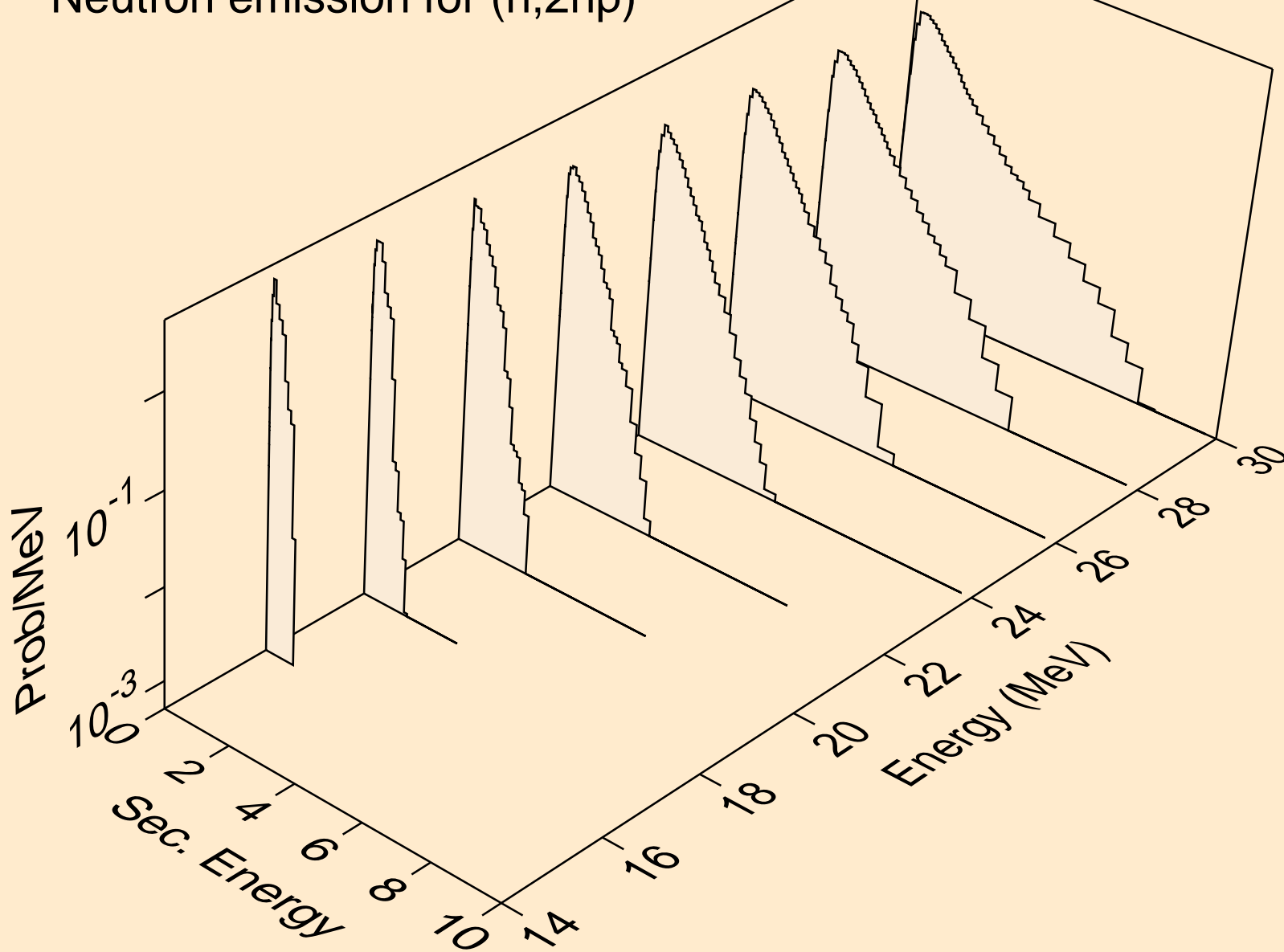
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,n*)he3



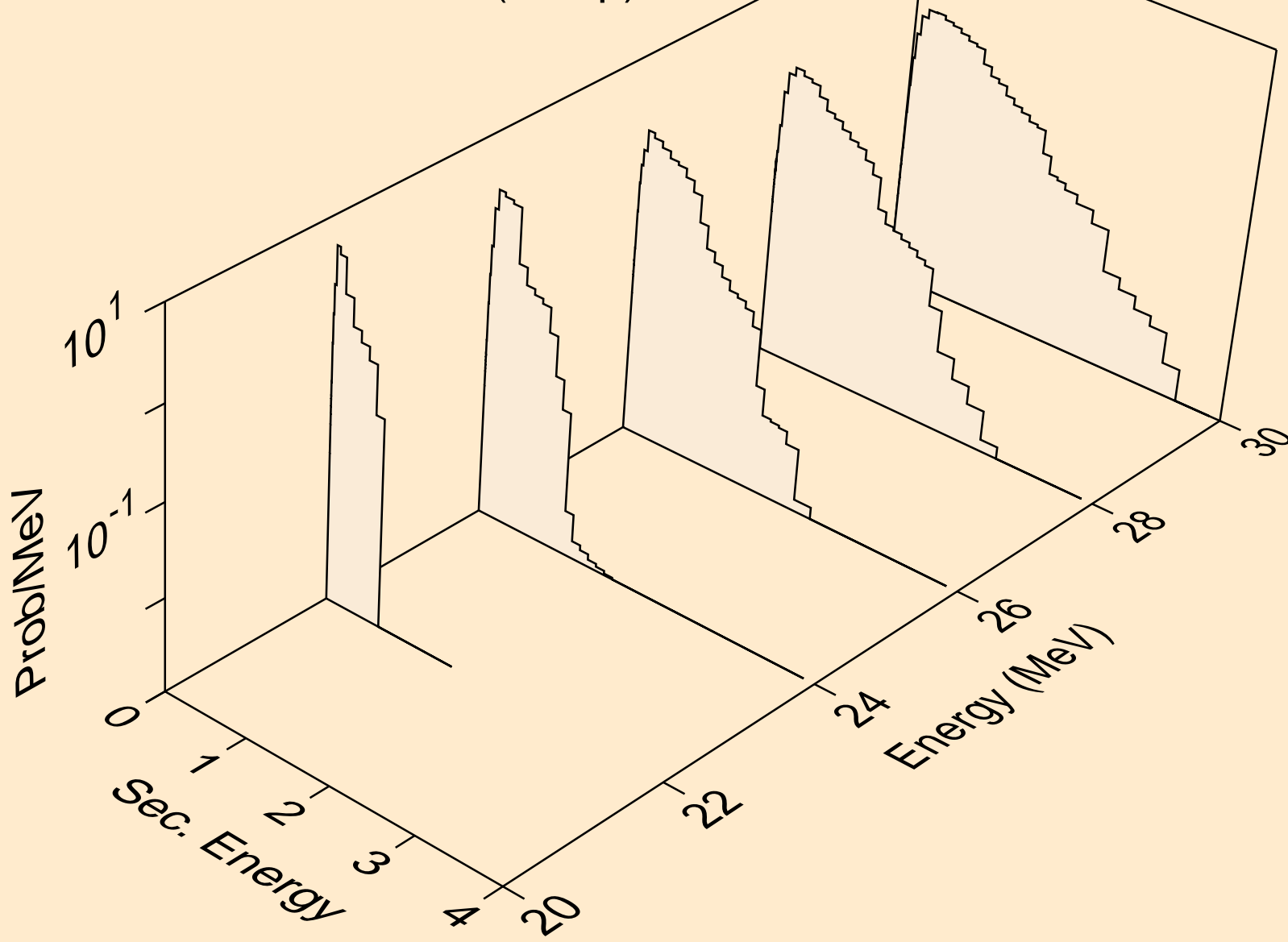
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,4n)



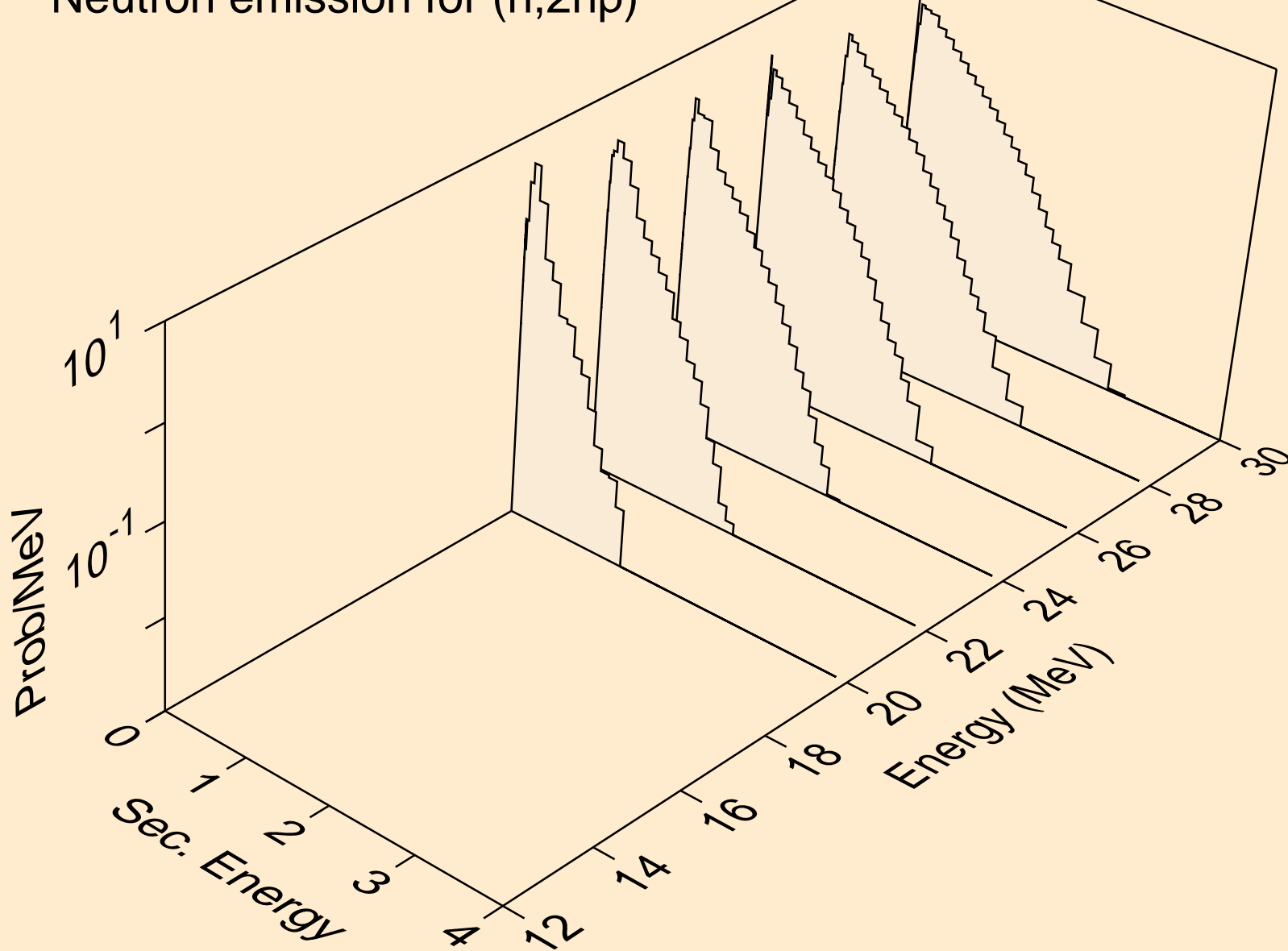
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,2np)



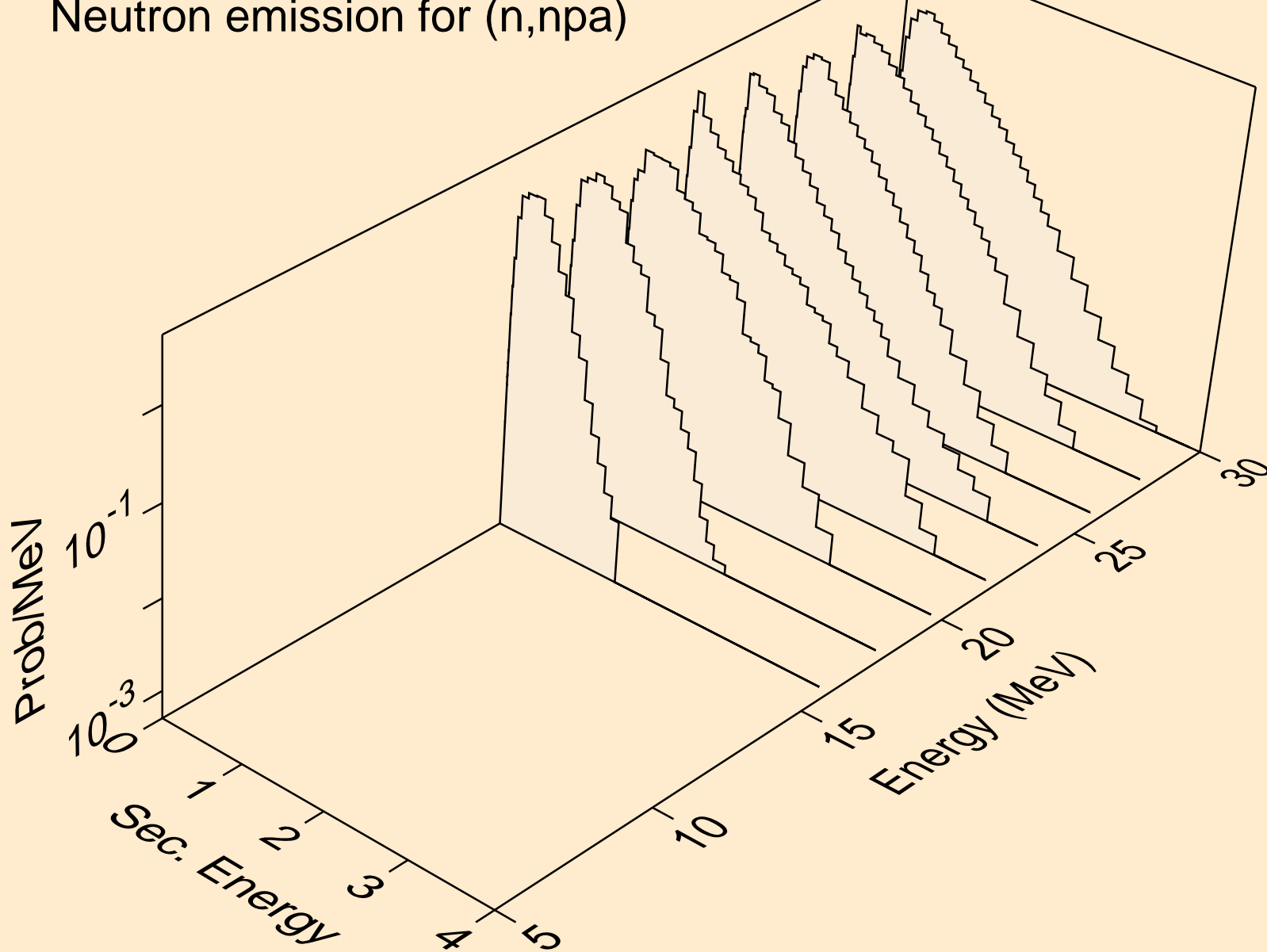
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,3np)



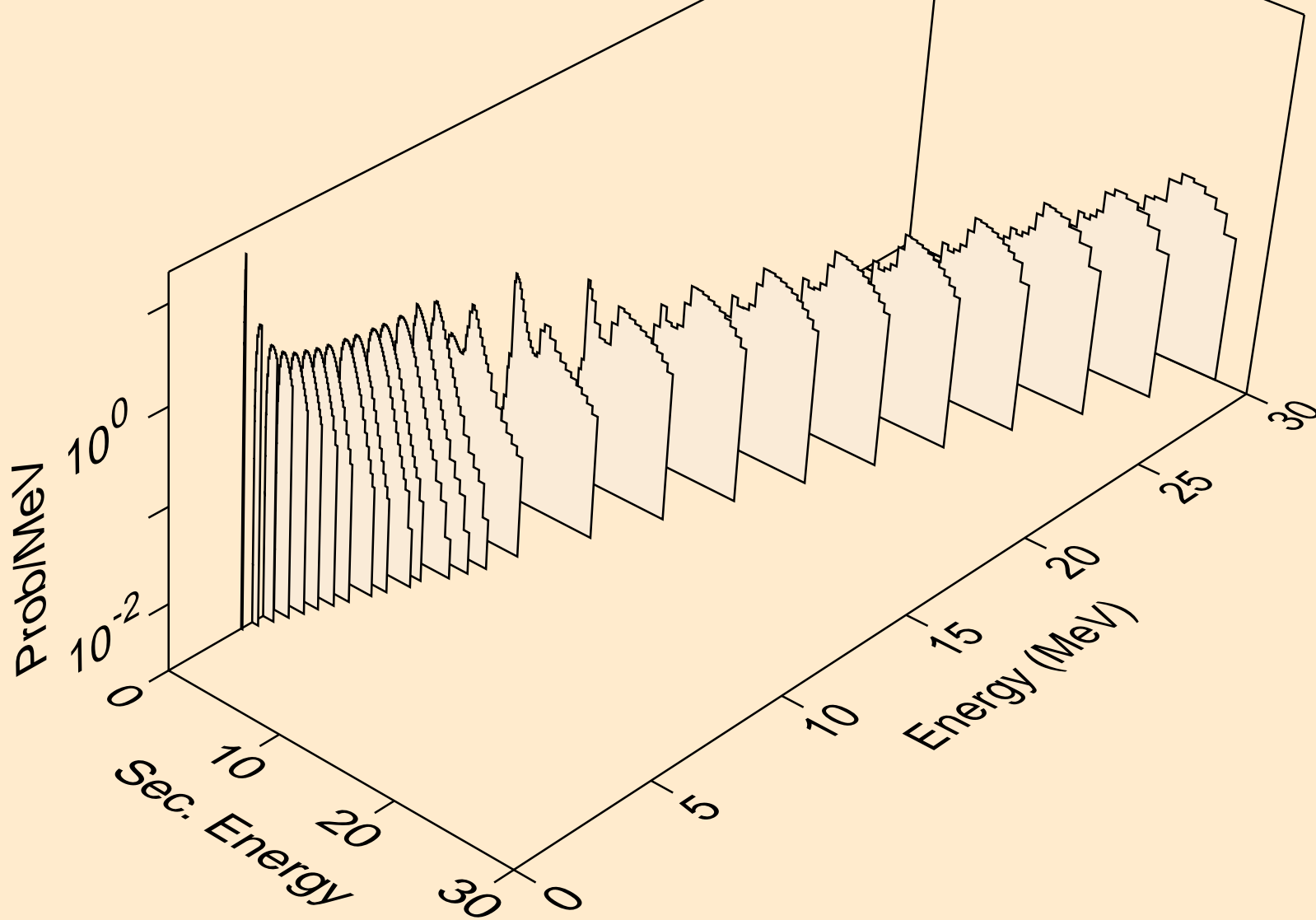
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,2np)



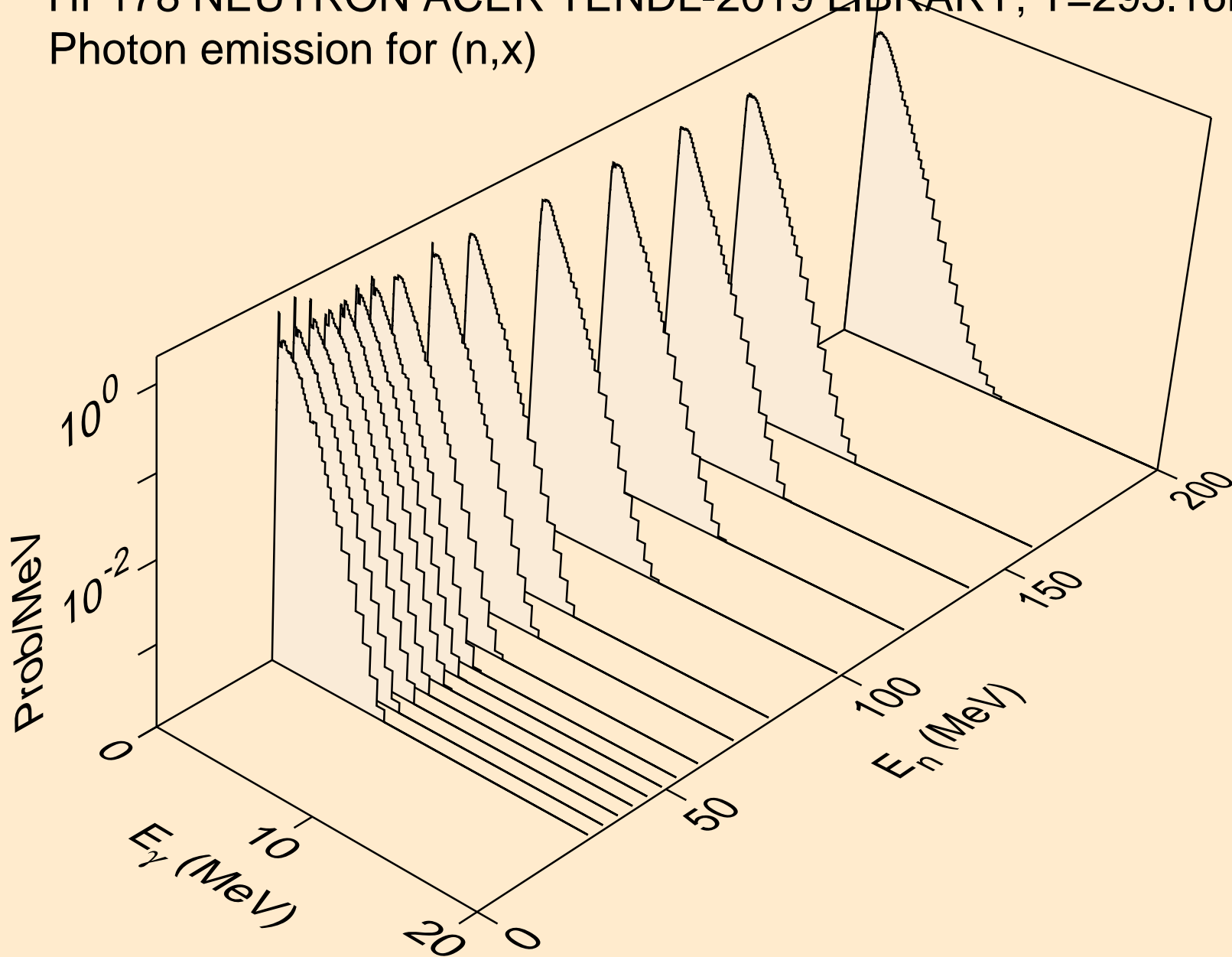
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,npa)



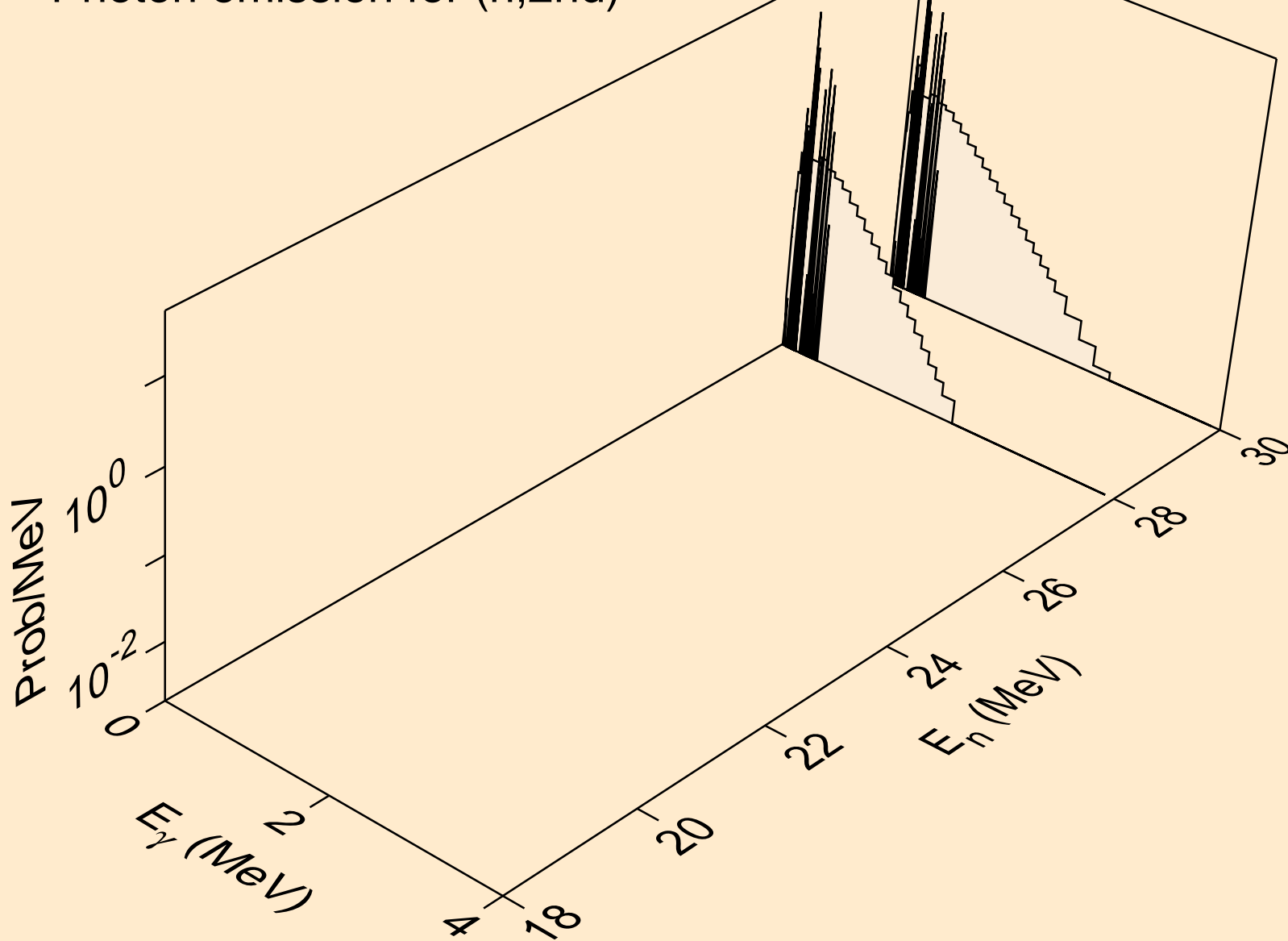
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,n*c)



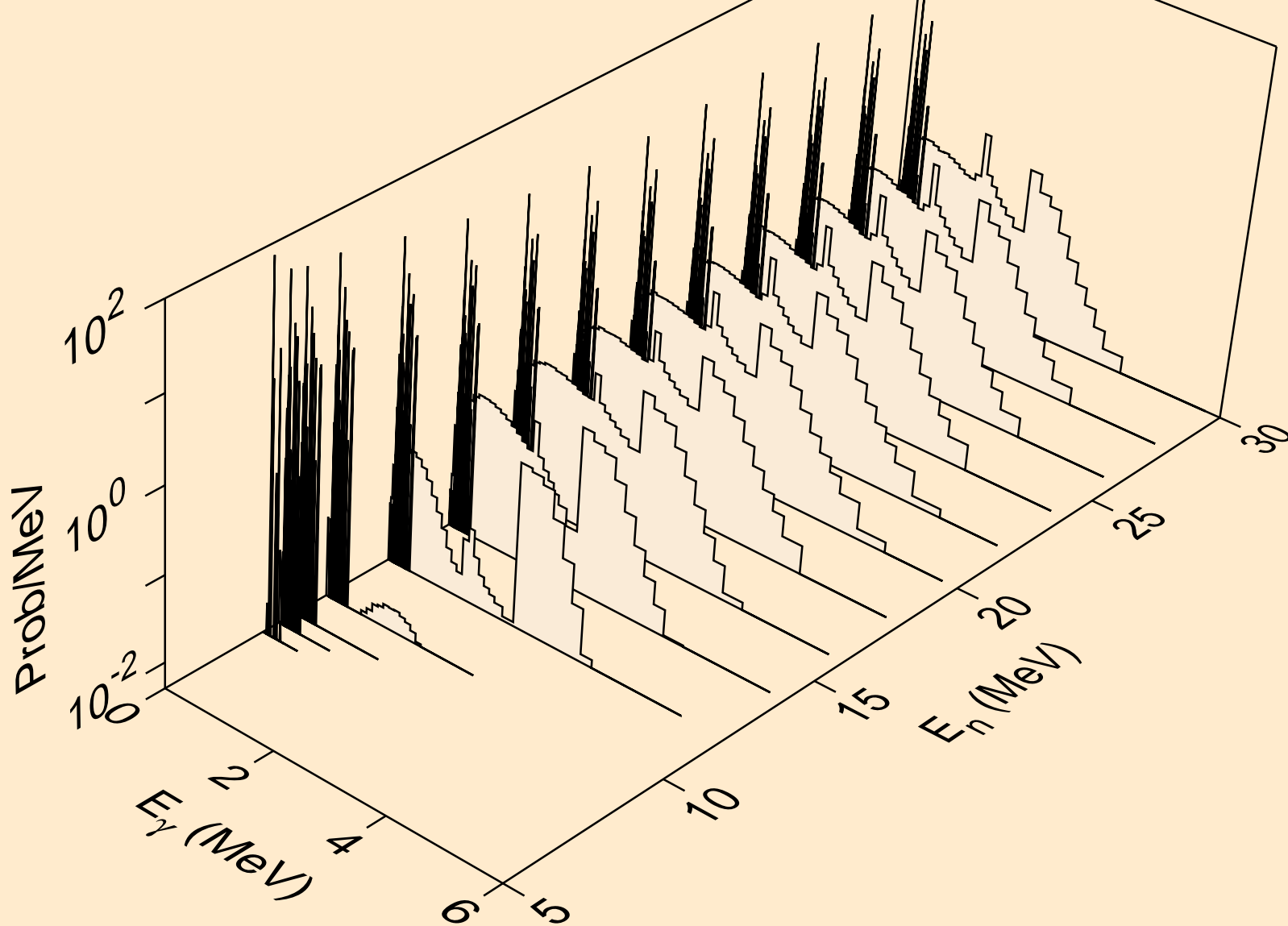
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,x)



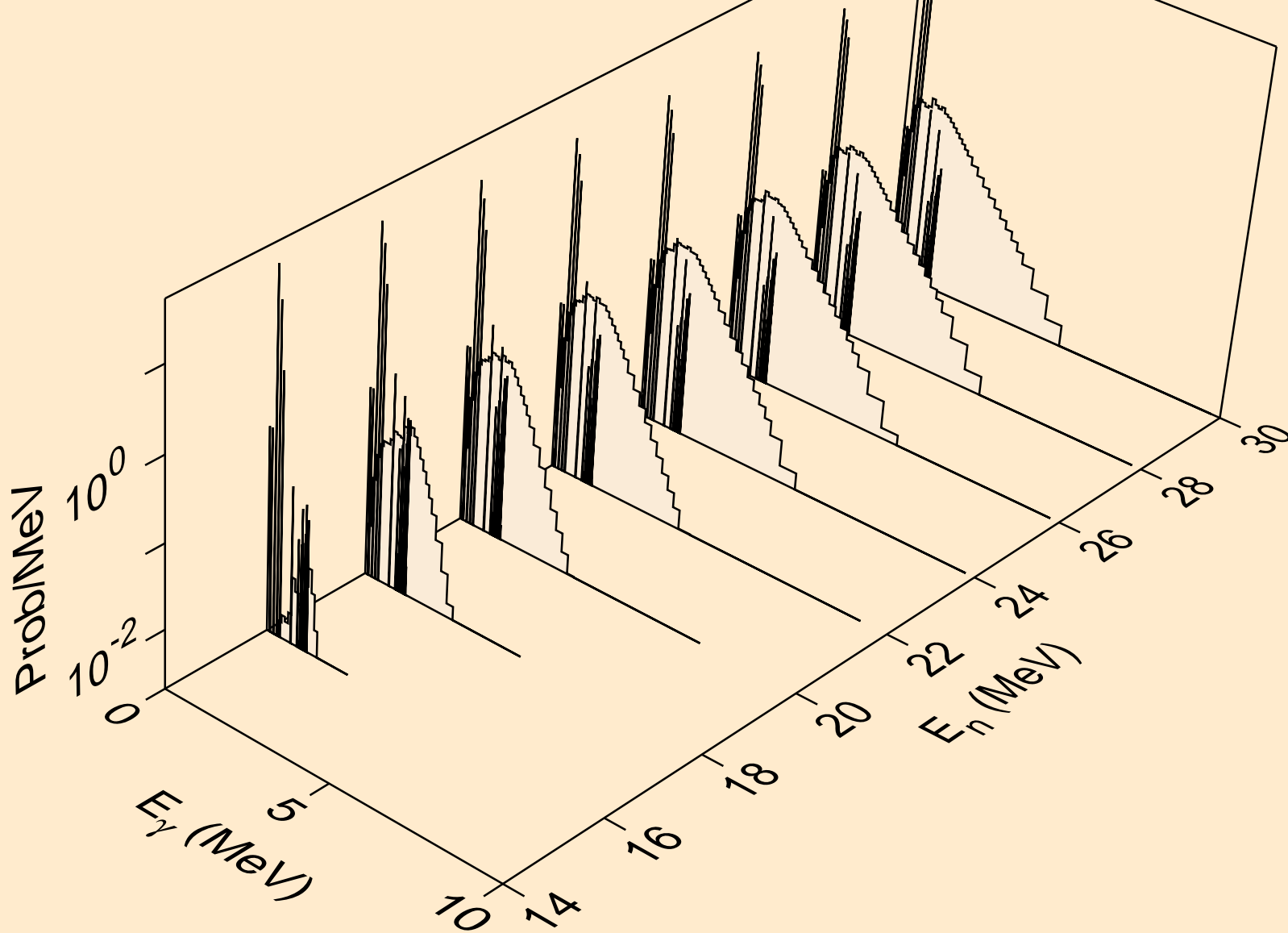
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,2nd)



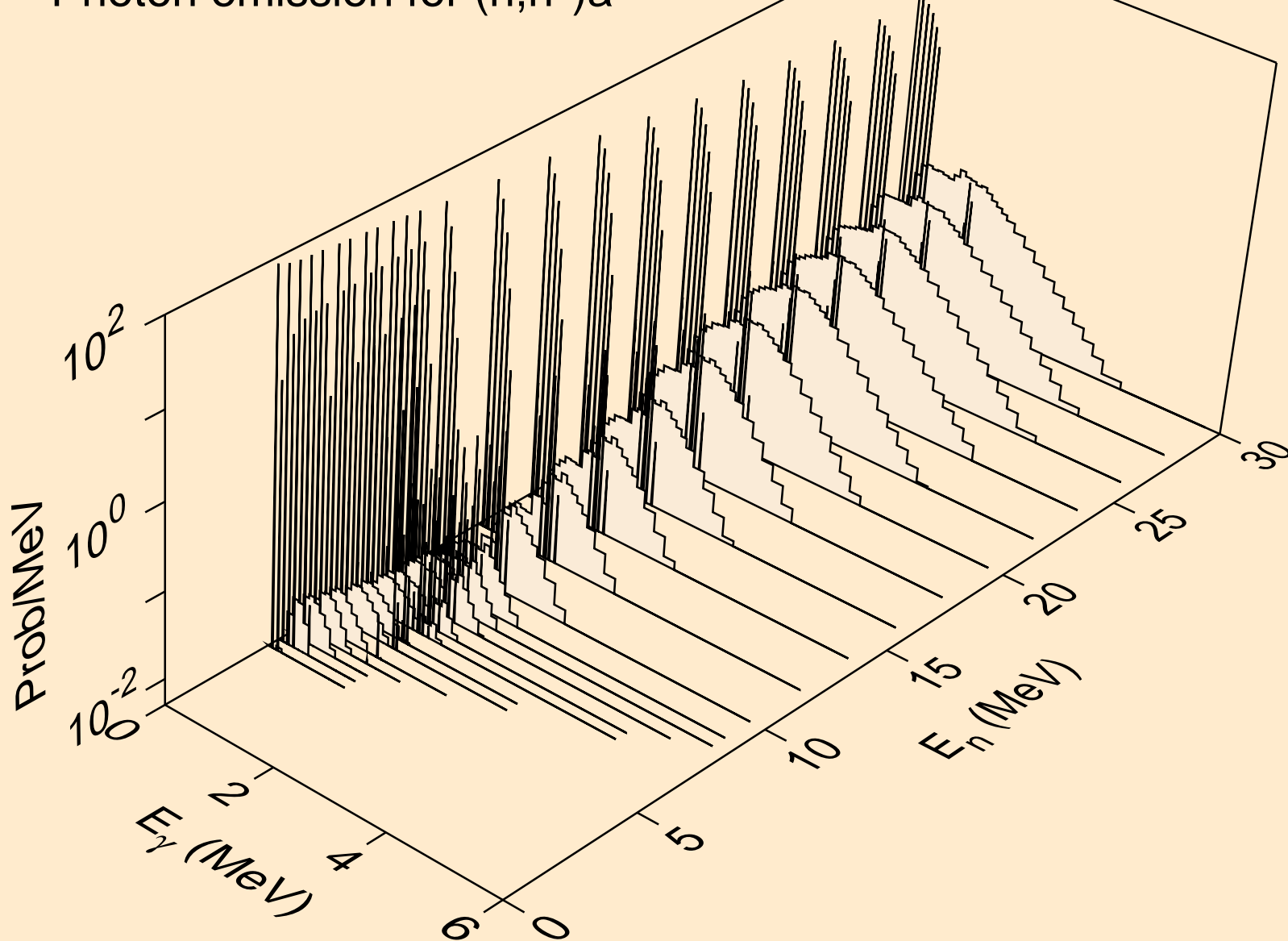
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,2n)



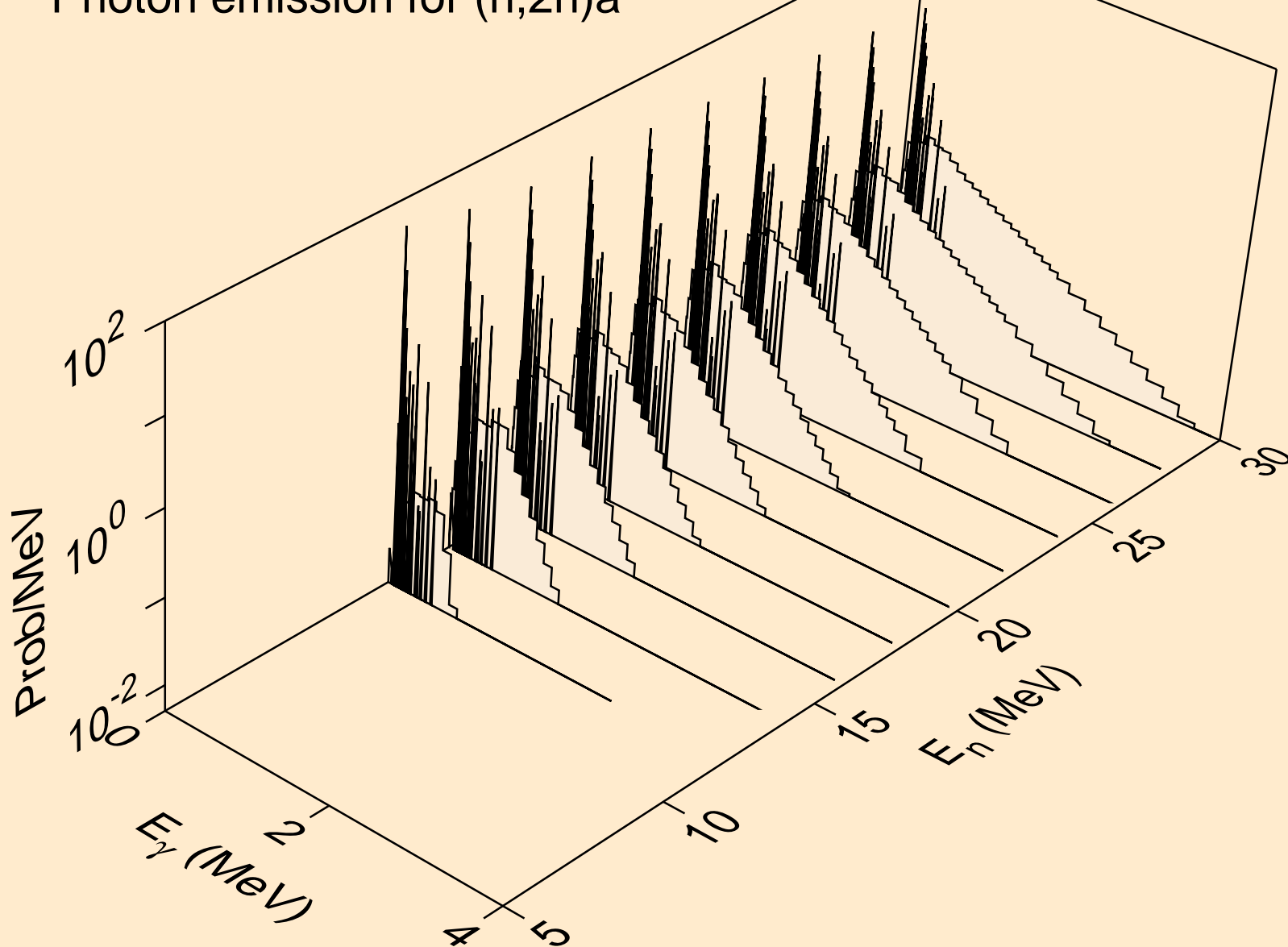
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,3n)



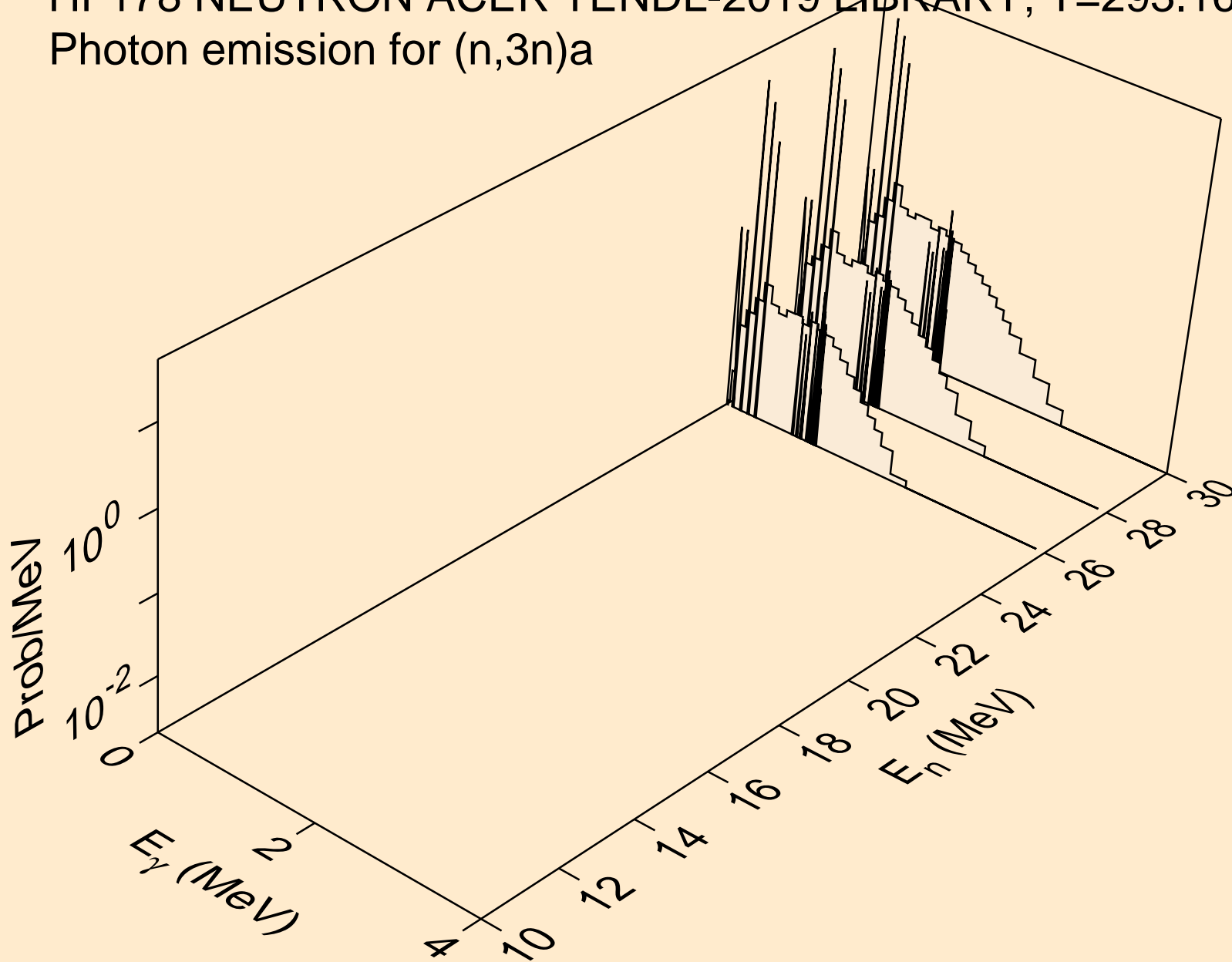
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*)a



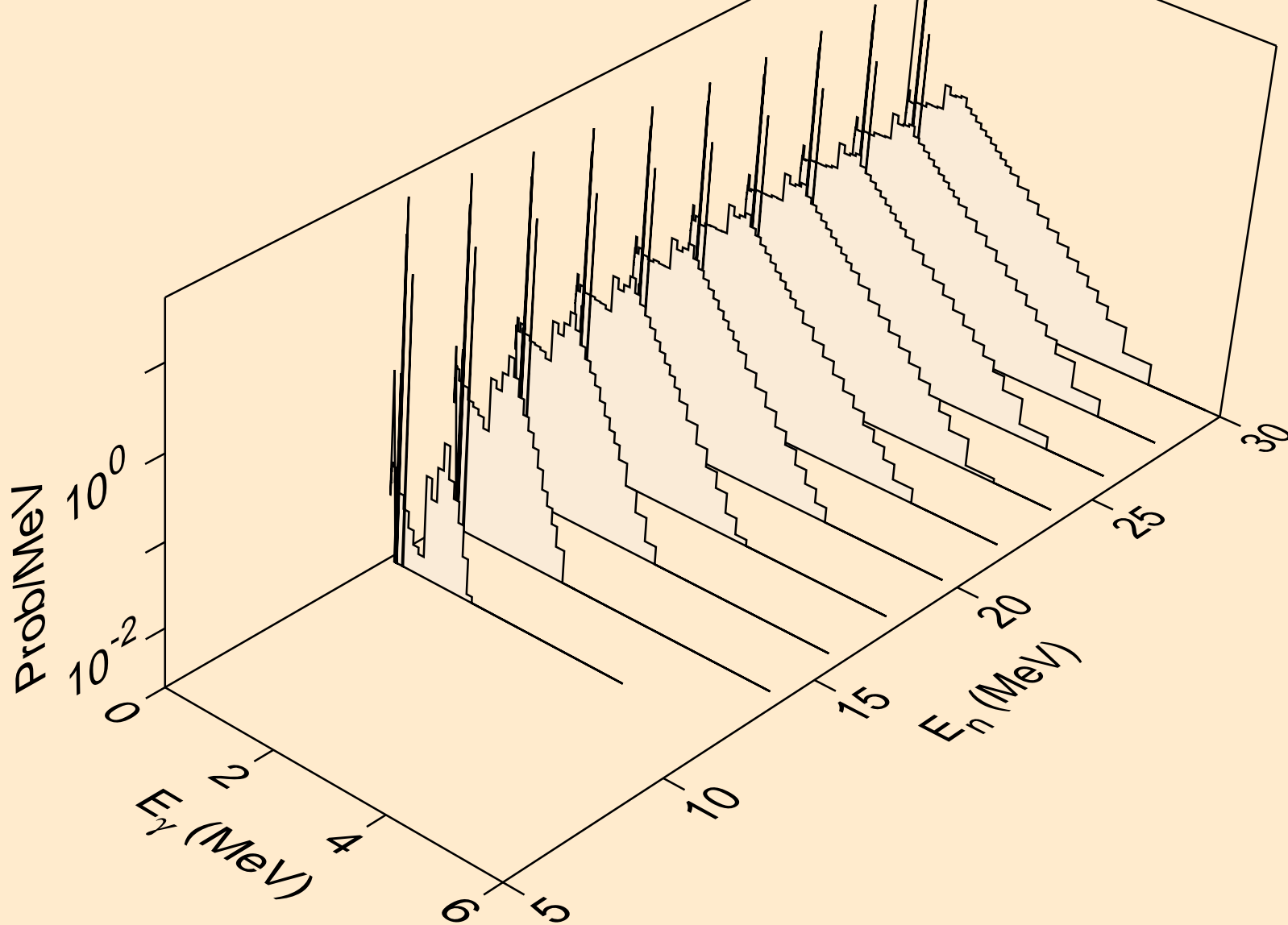
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,2n)a



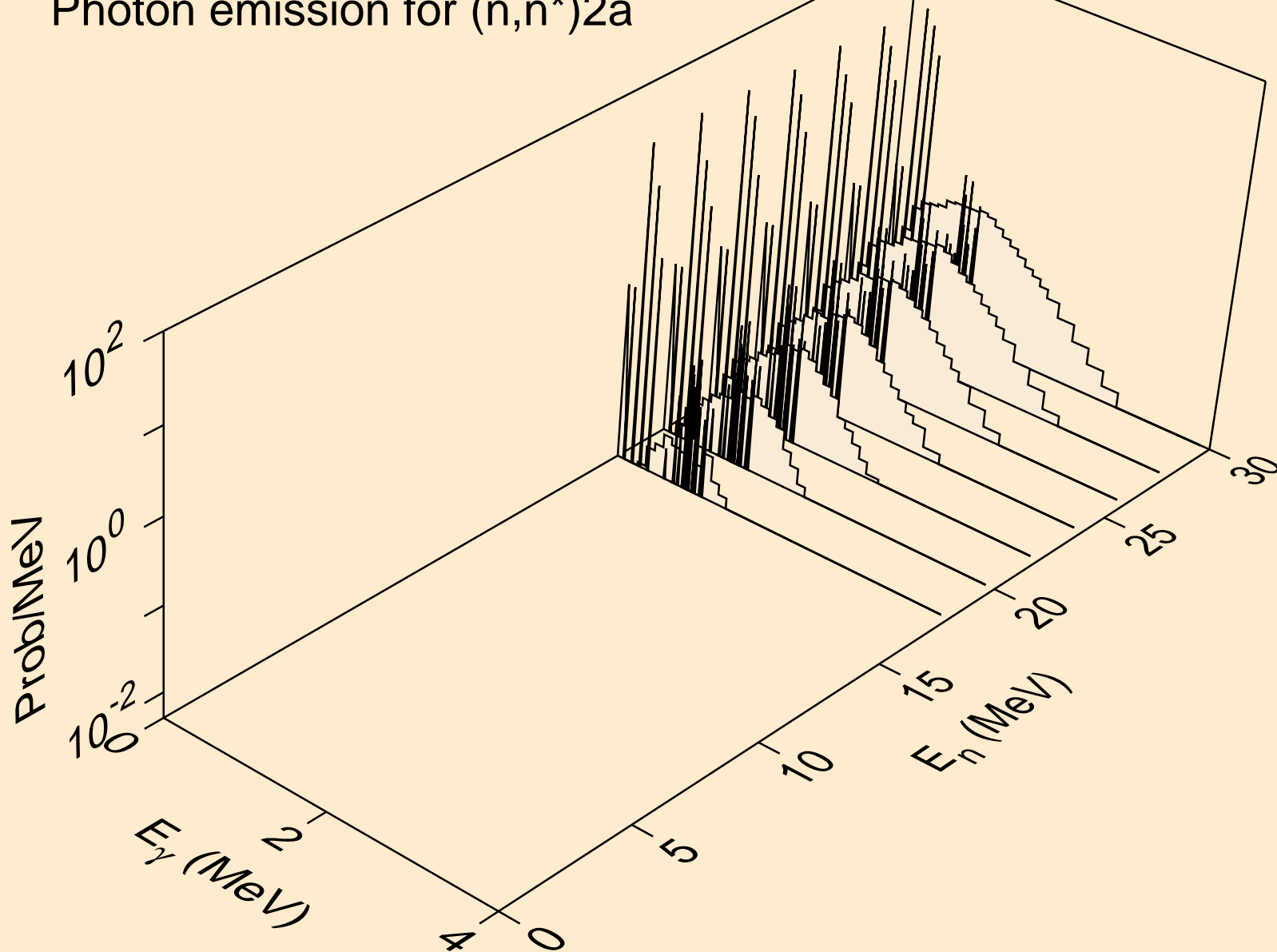
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,3n)a



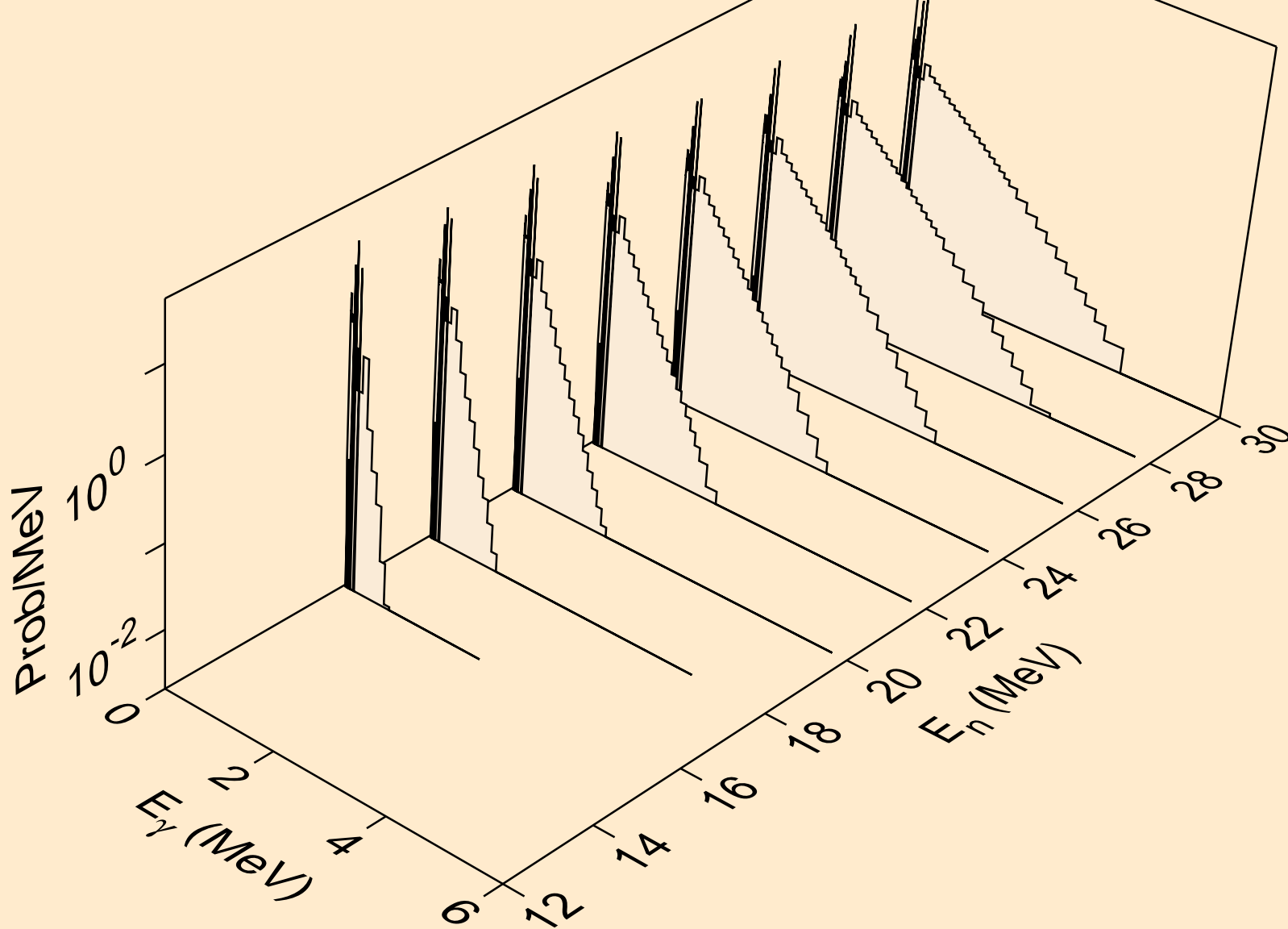
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*)p



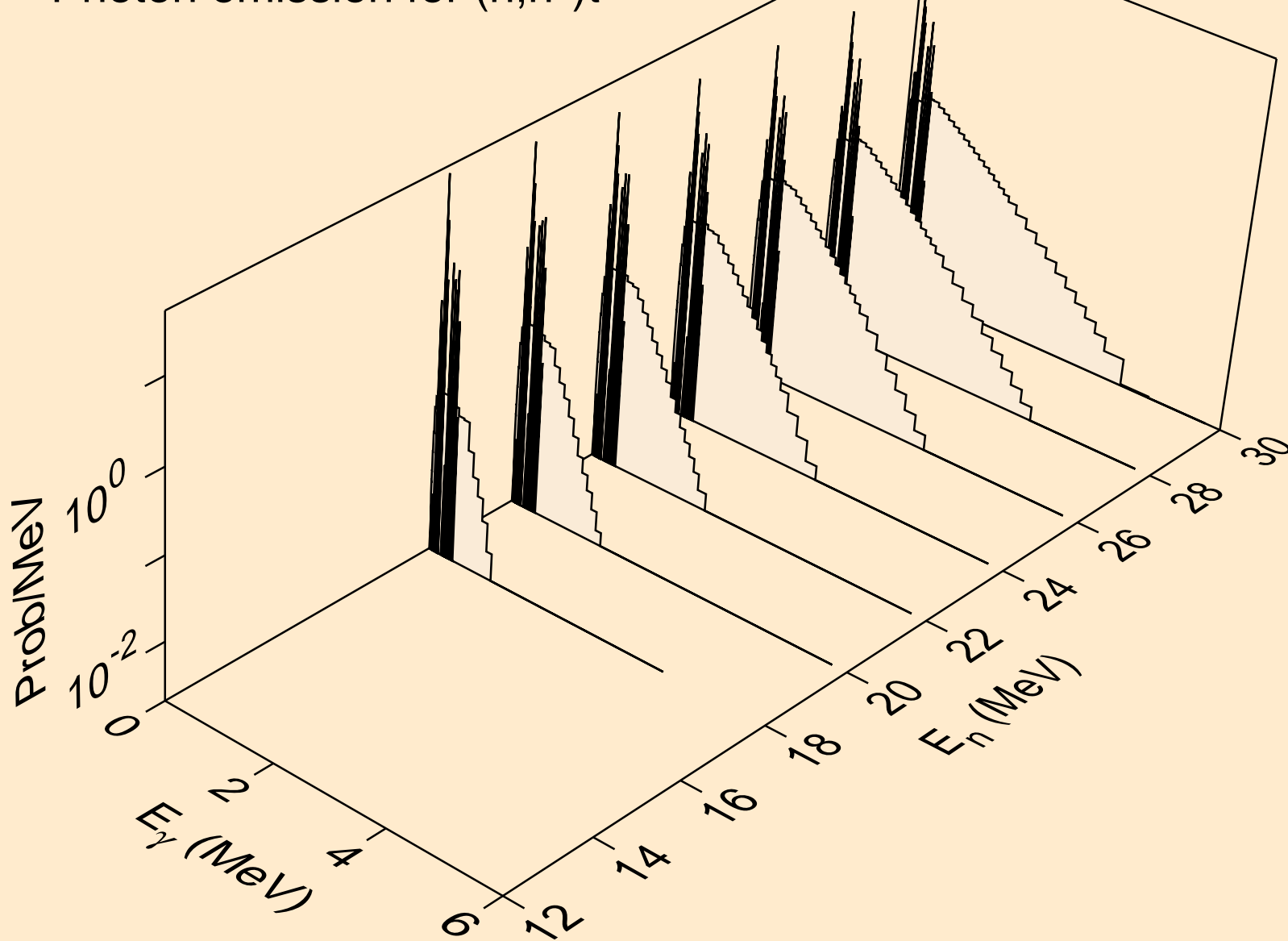
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*)2a



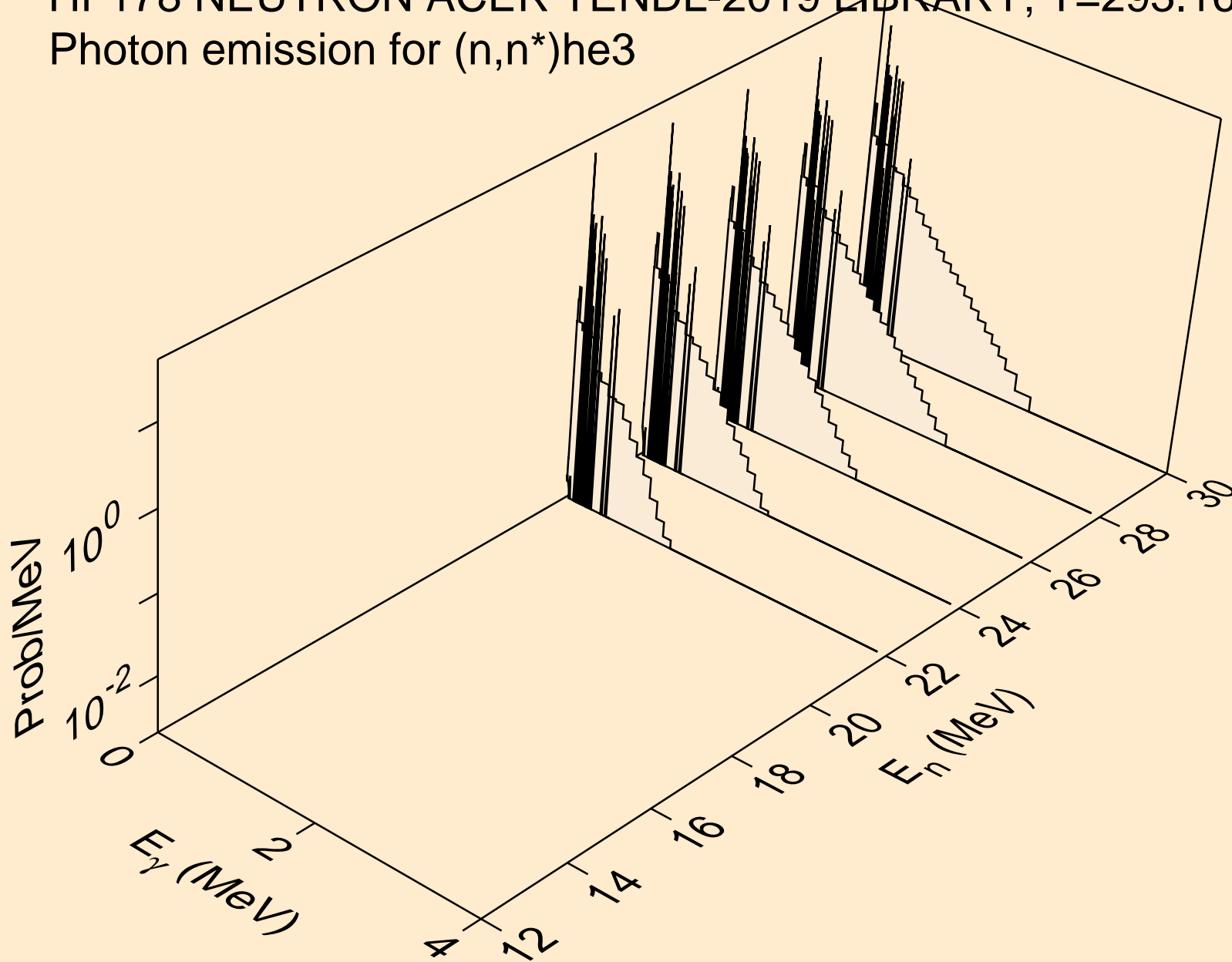
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*)d



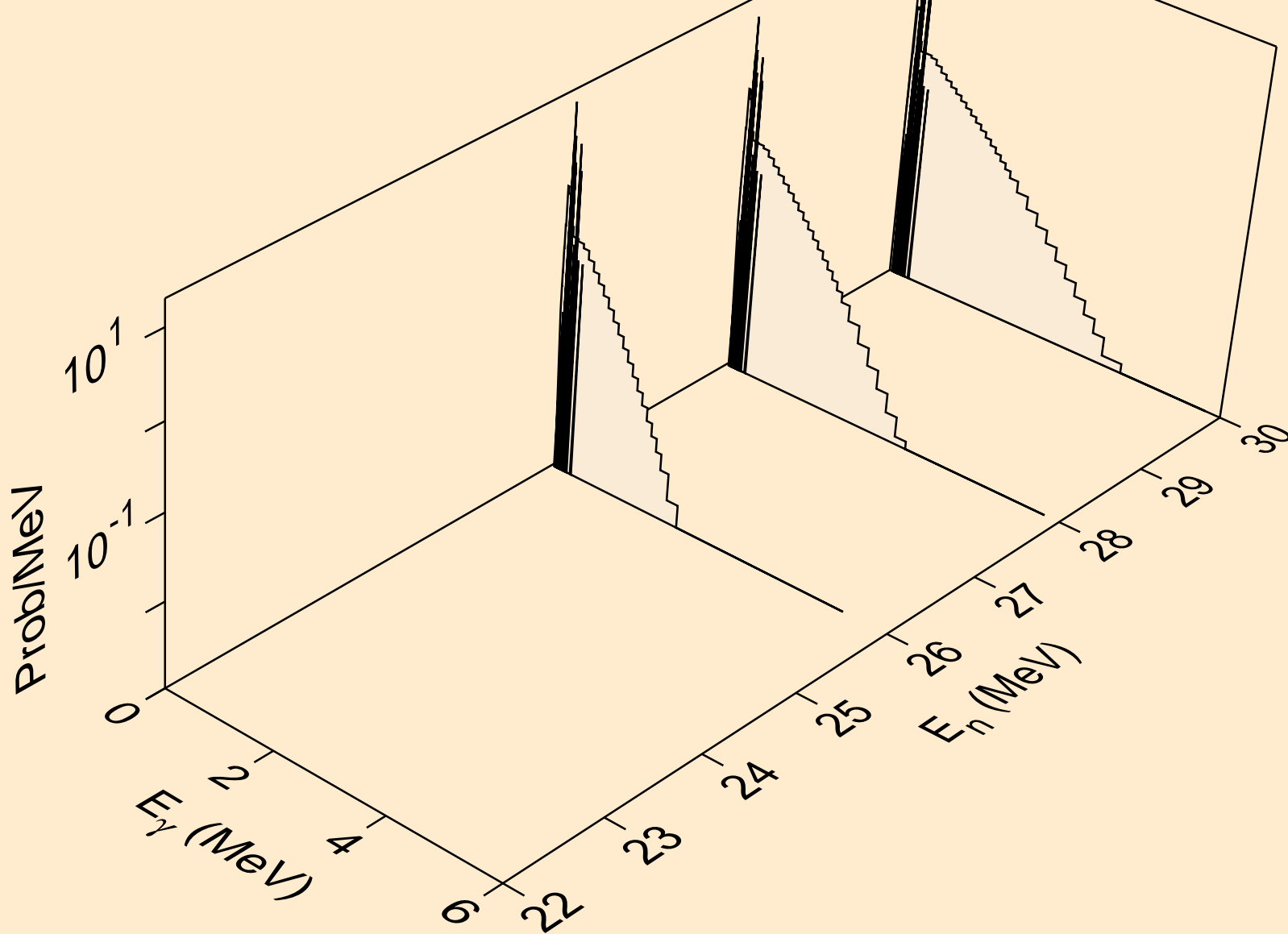
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*)t



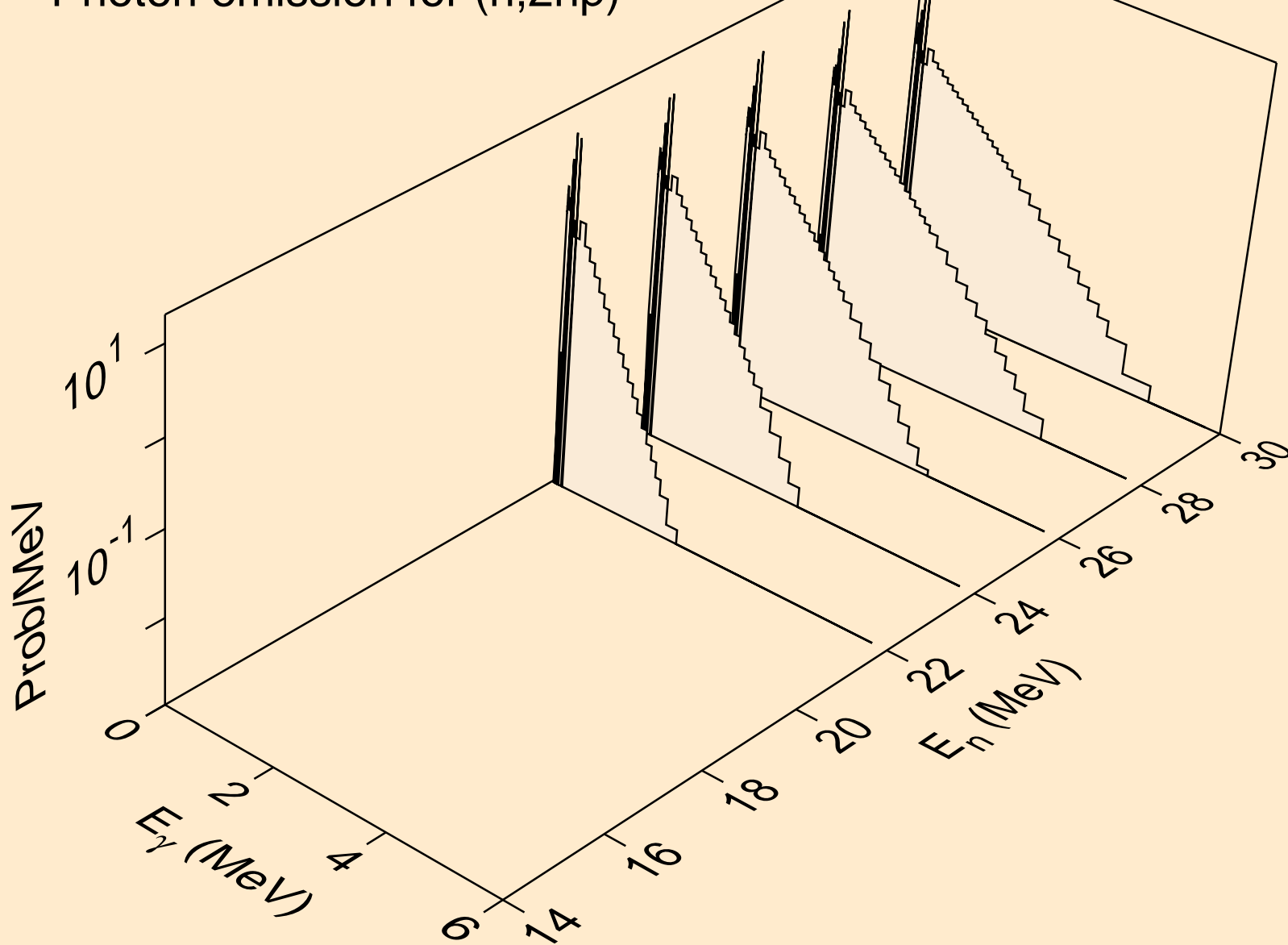
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*)he3



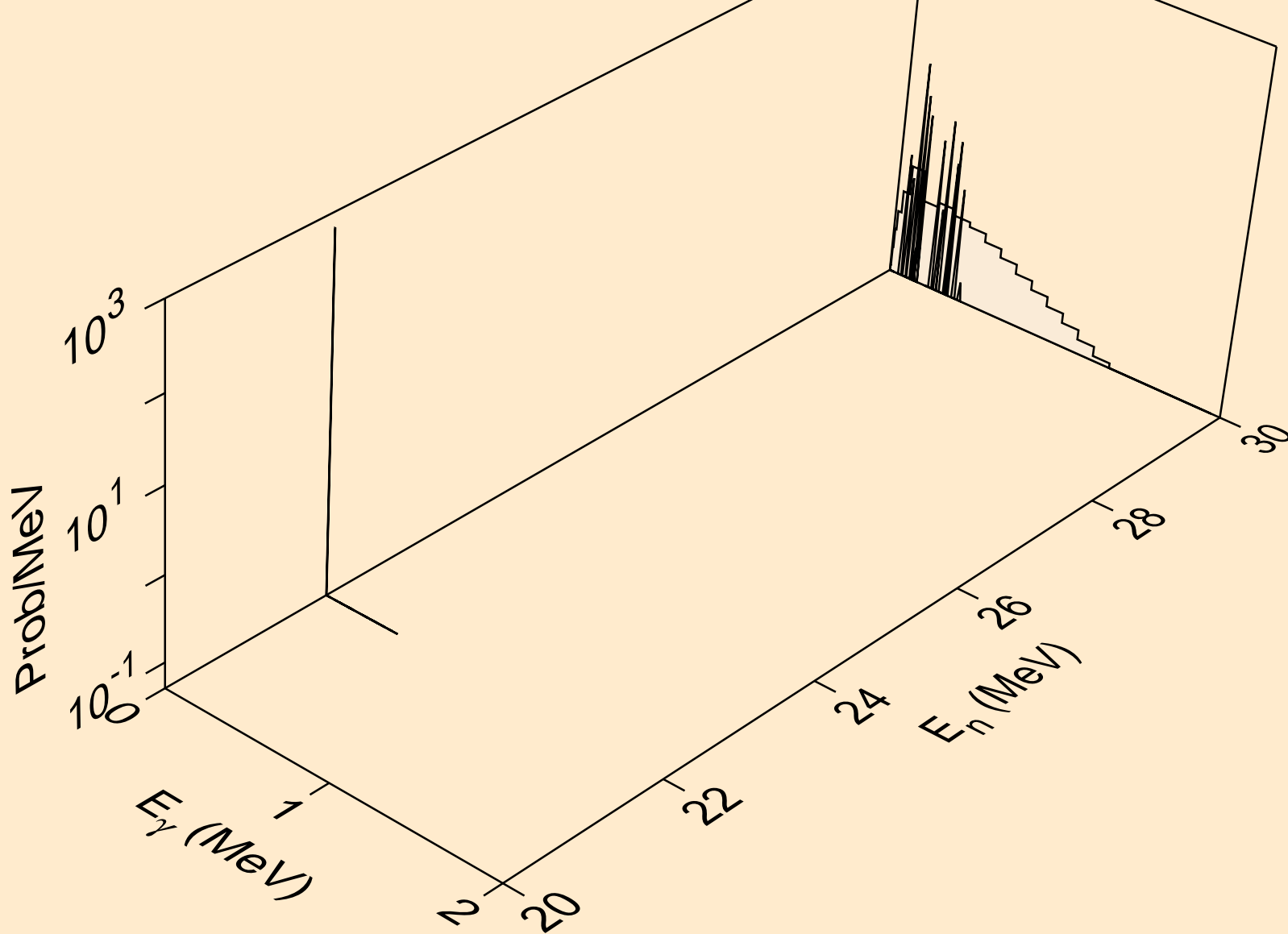
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,4n)



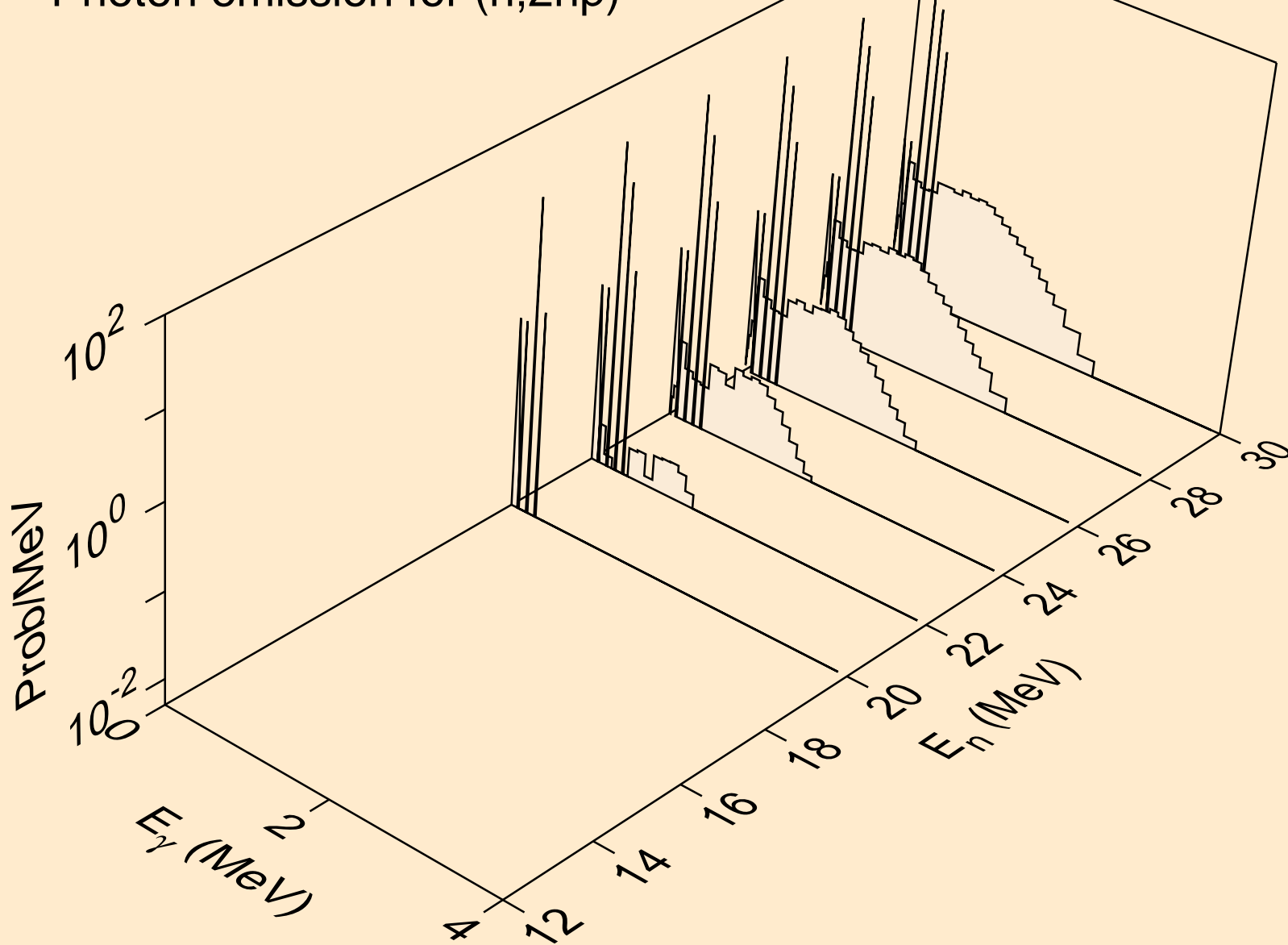
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,2np)



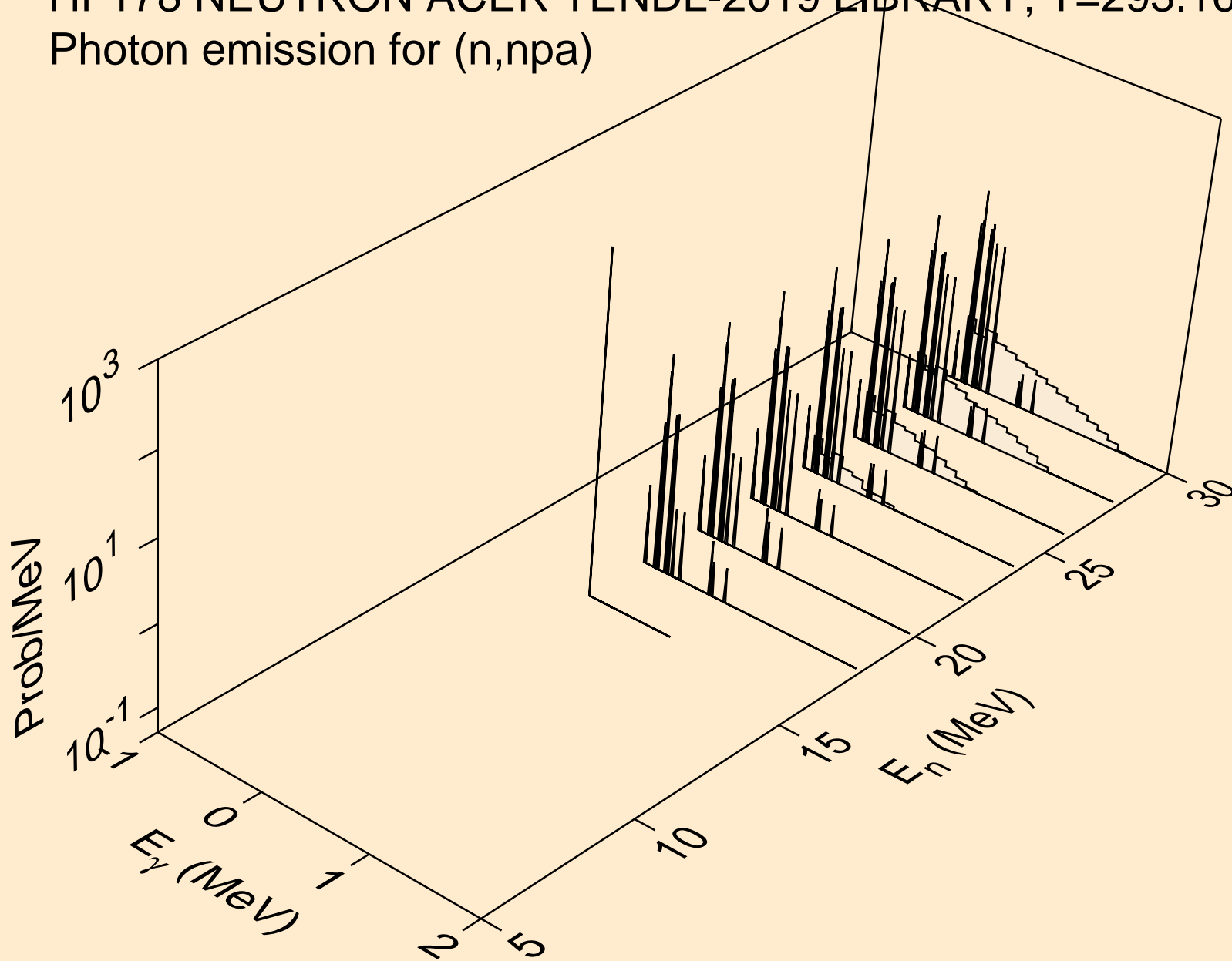
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,3np)



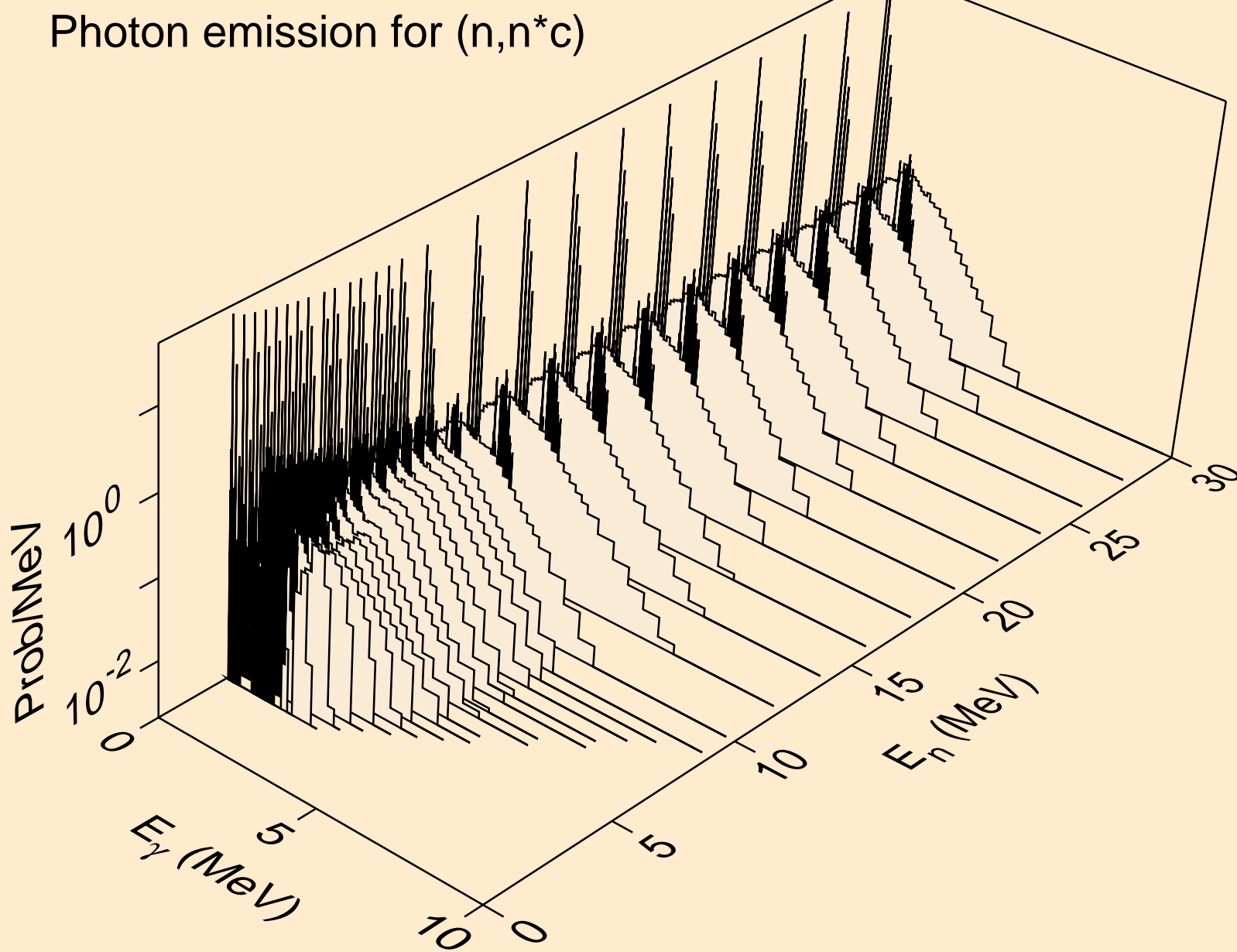
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,2np)



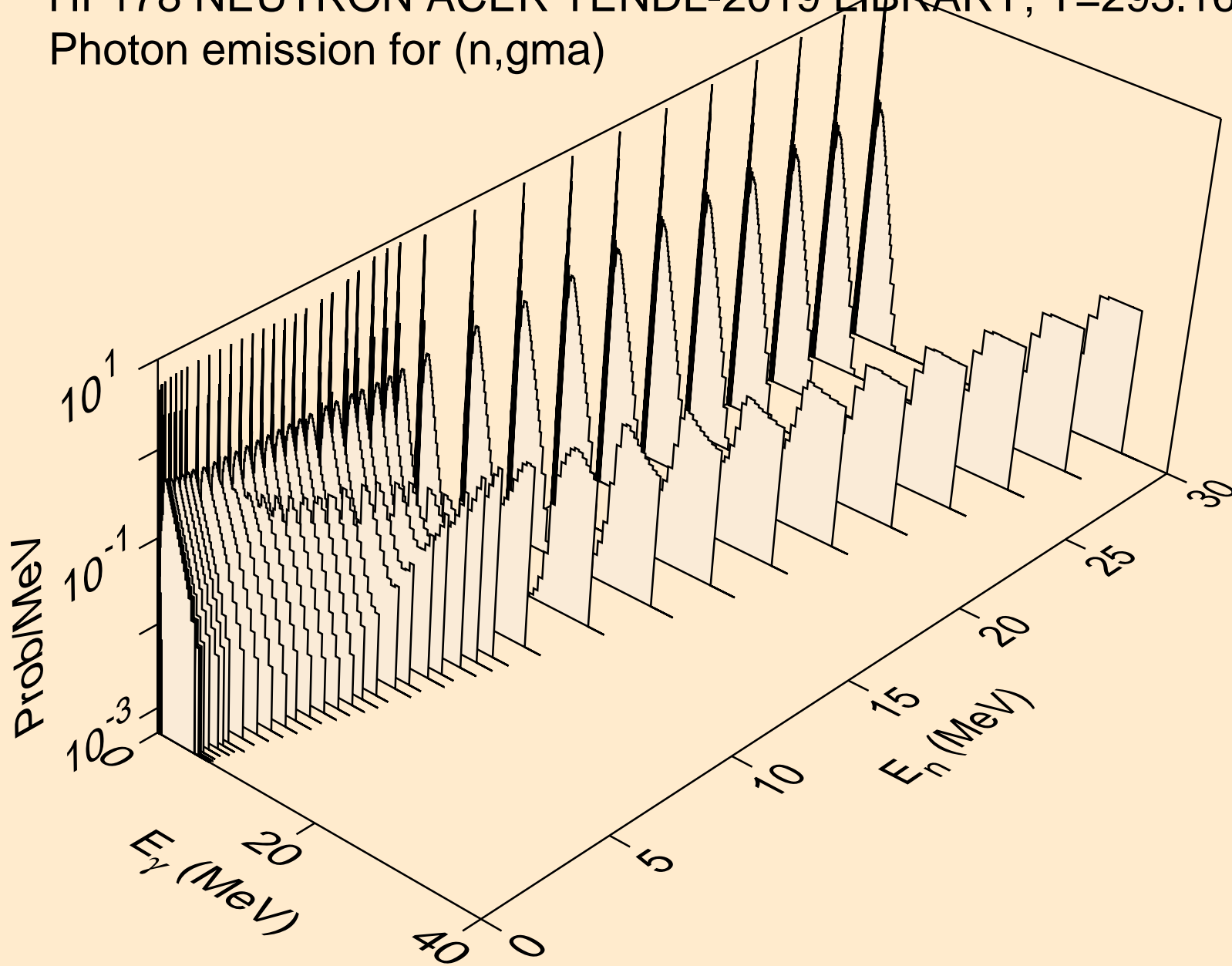
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,npa)



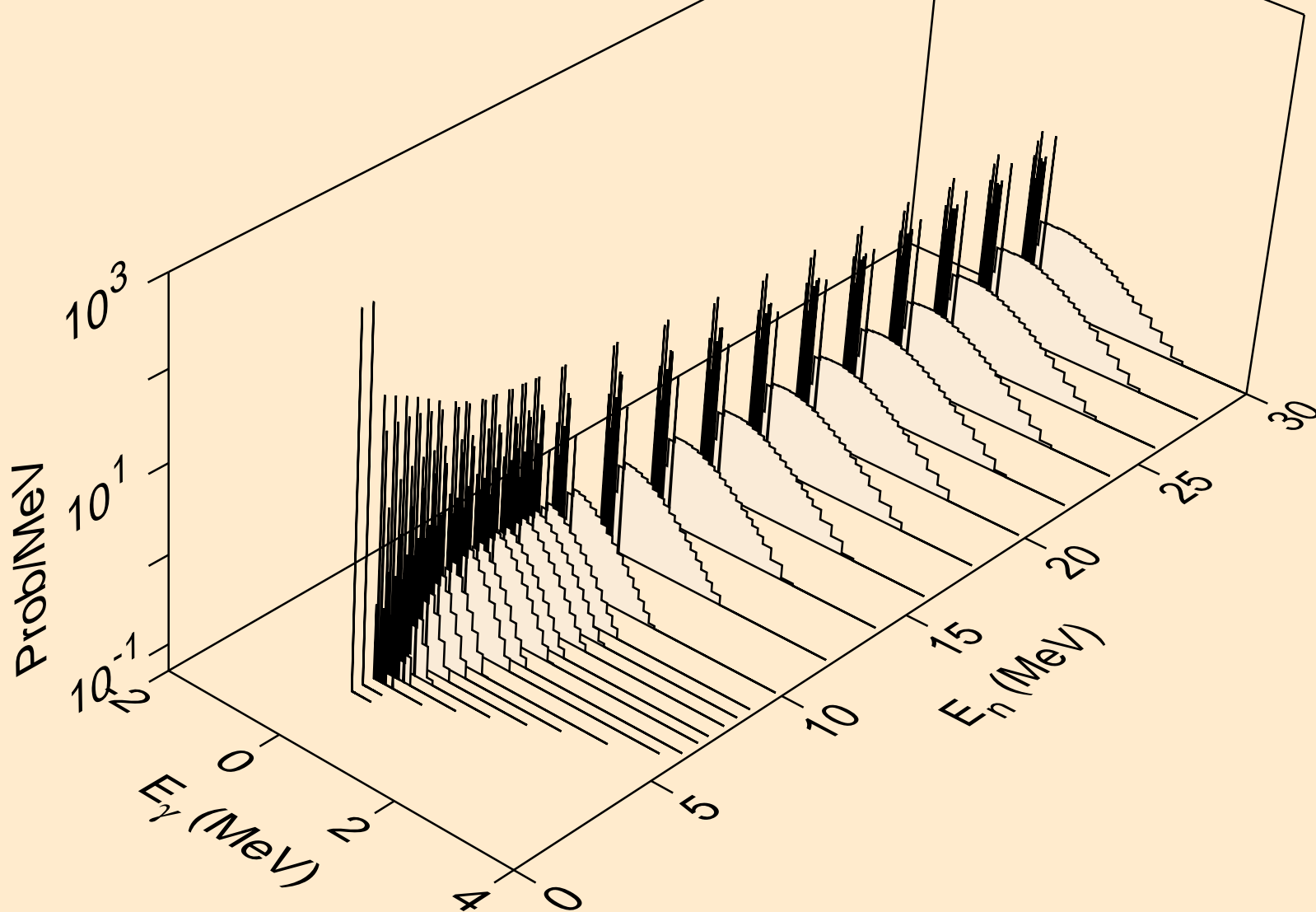
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*c)



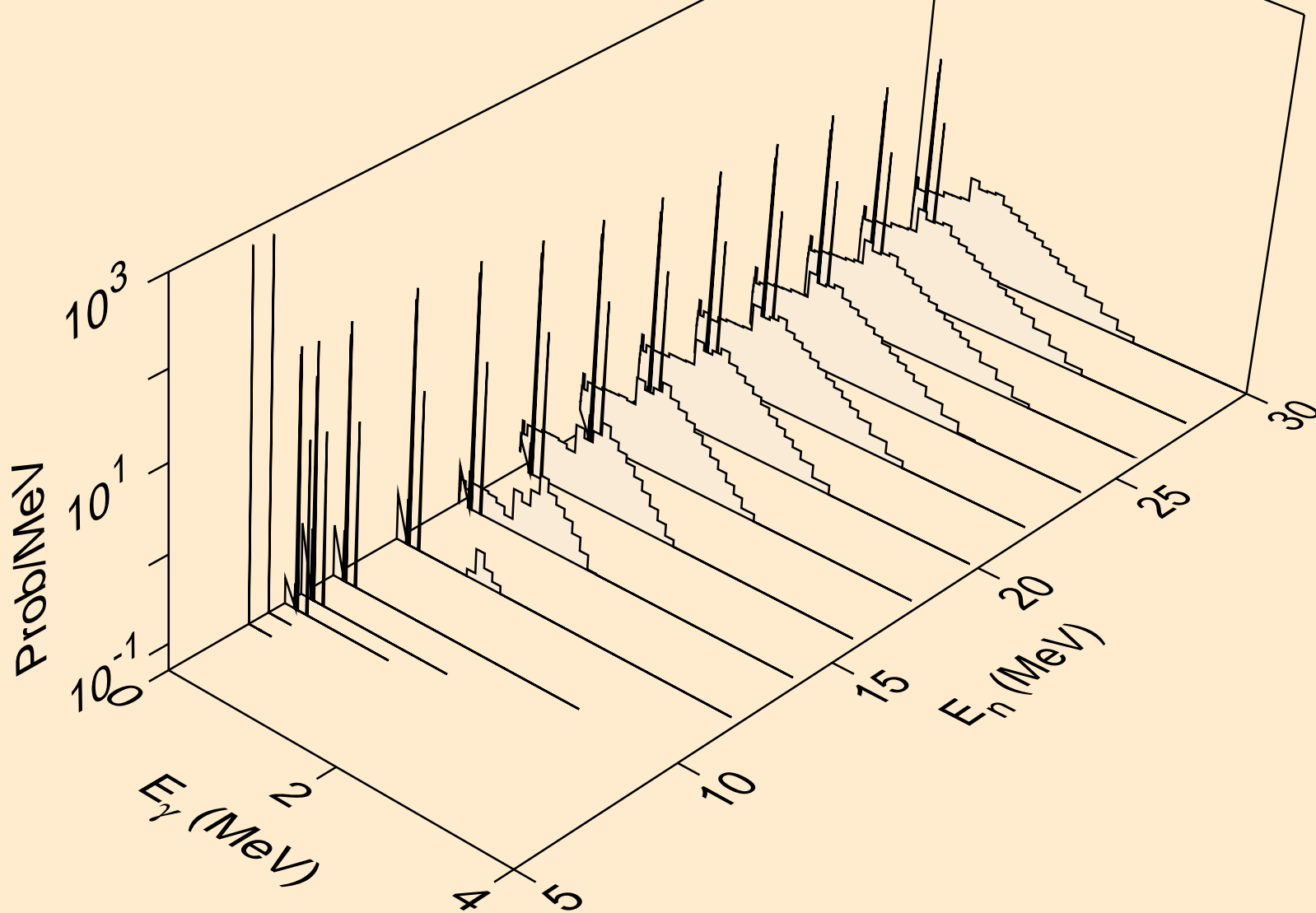
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,gma)



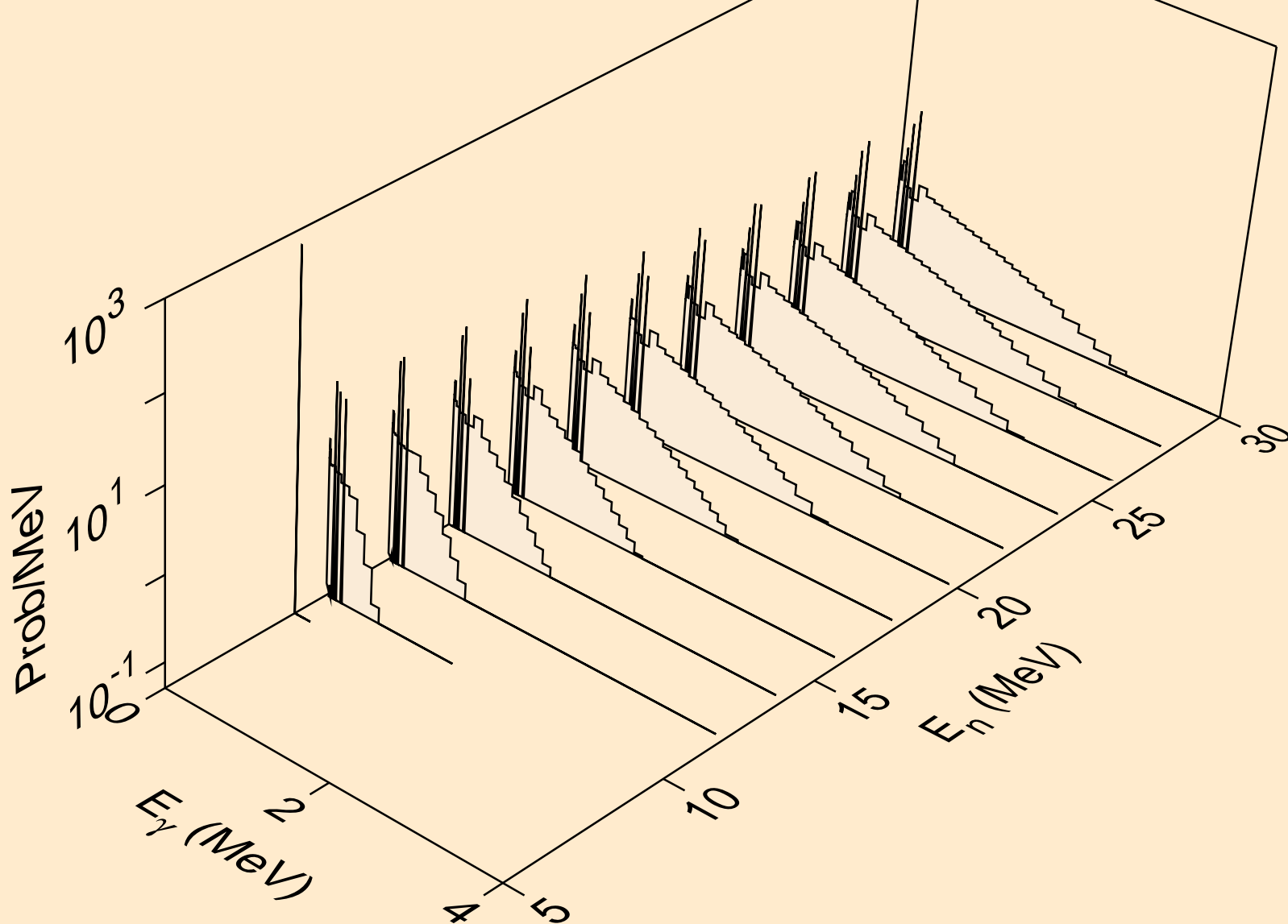
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,p)



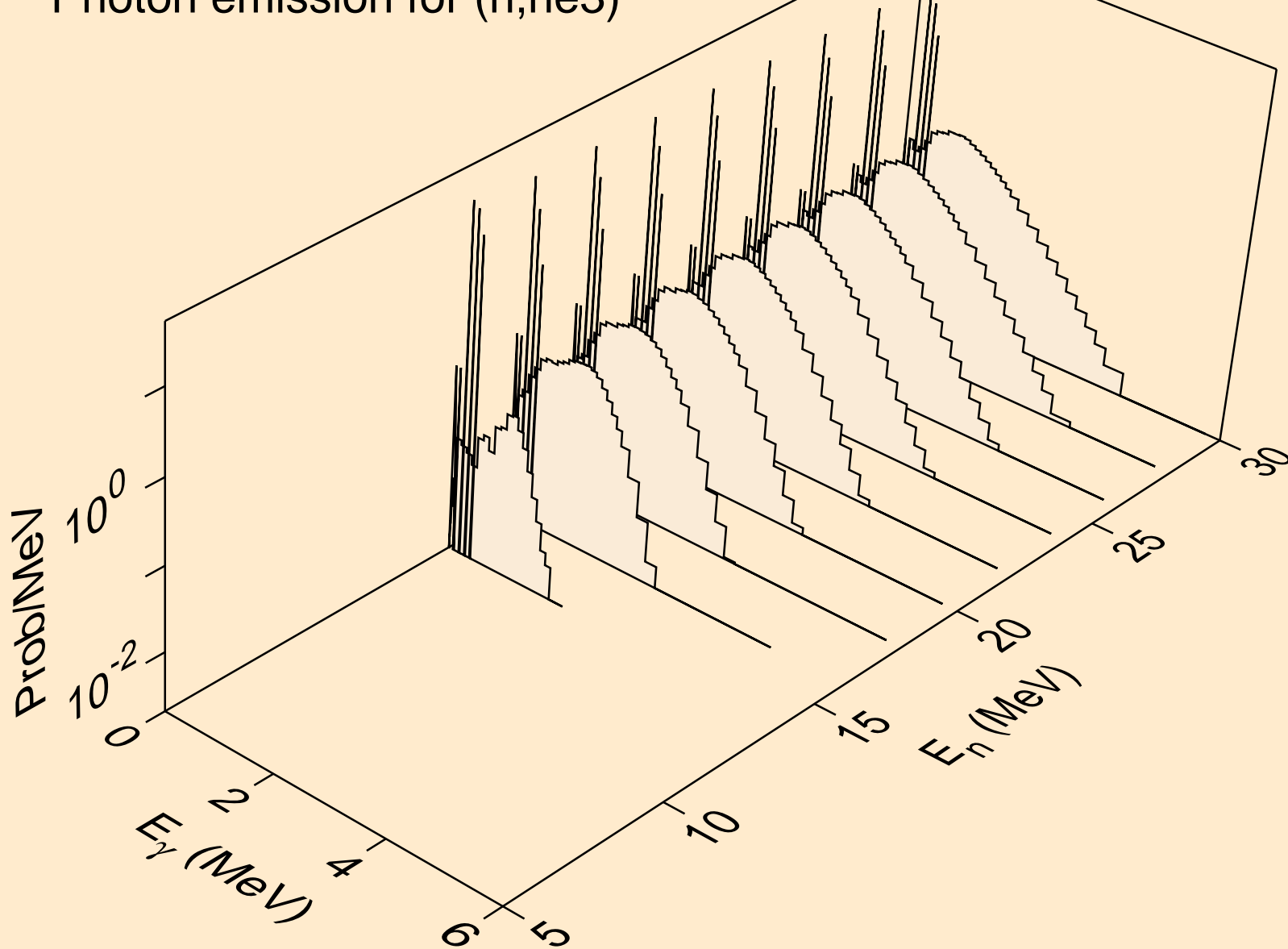
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,d)



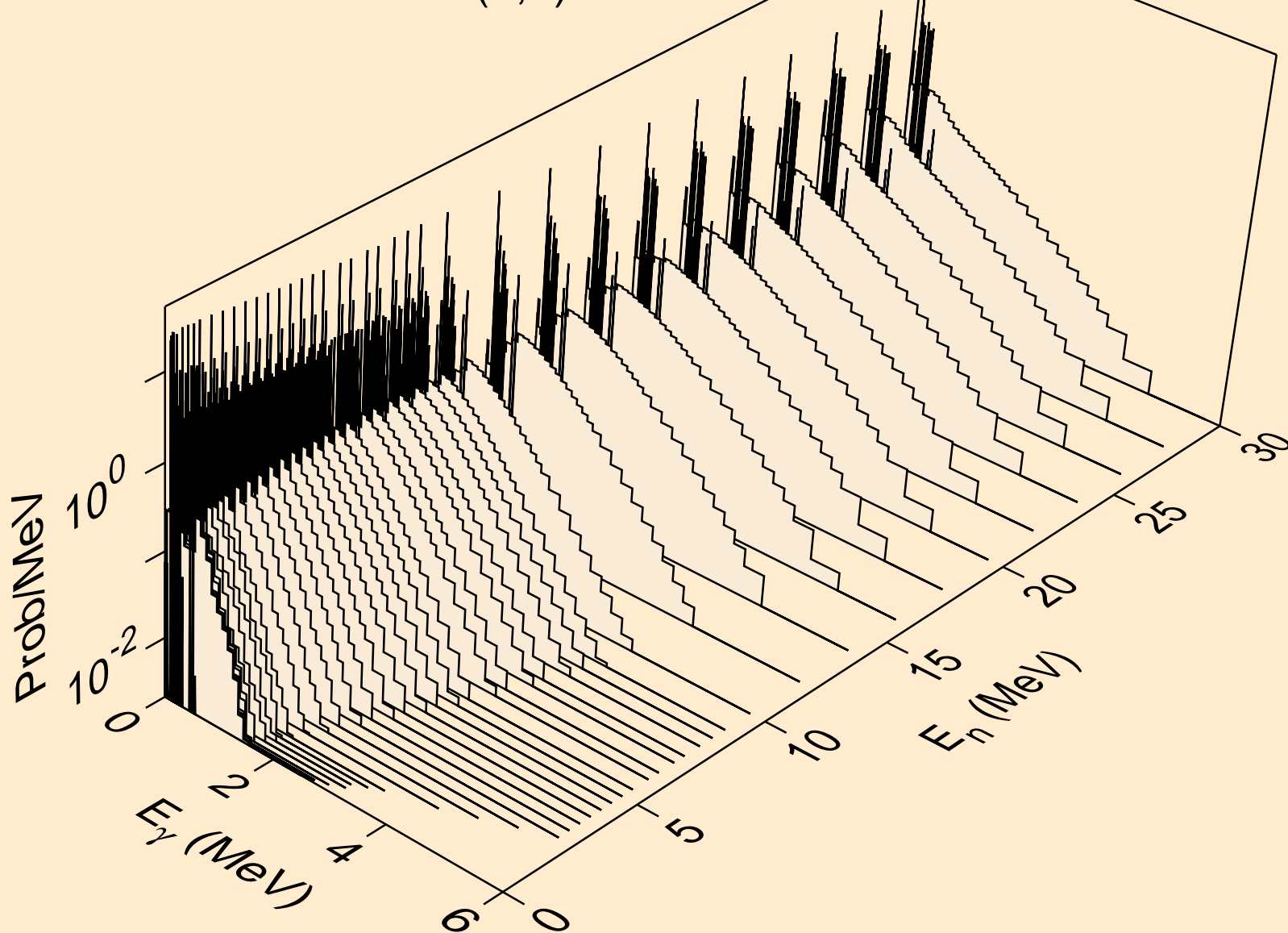
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,t)



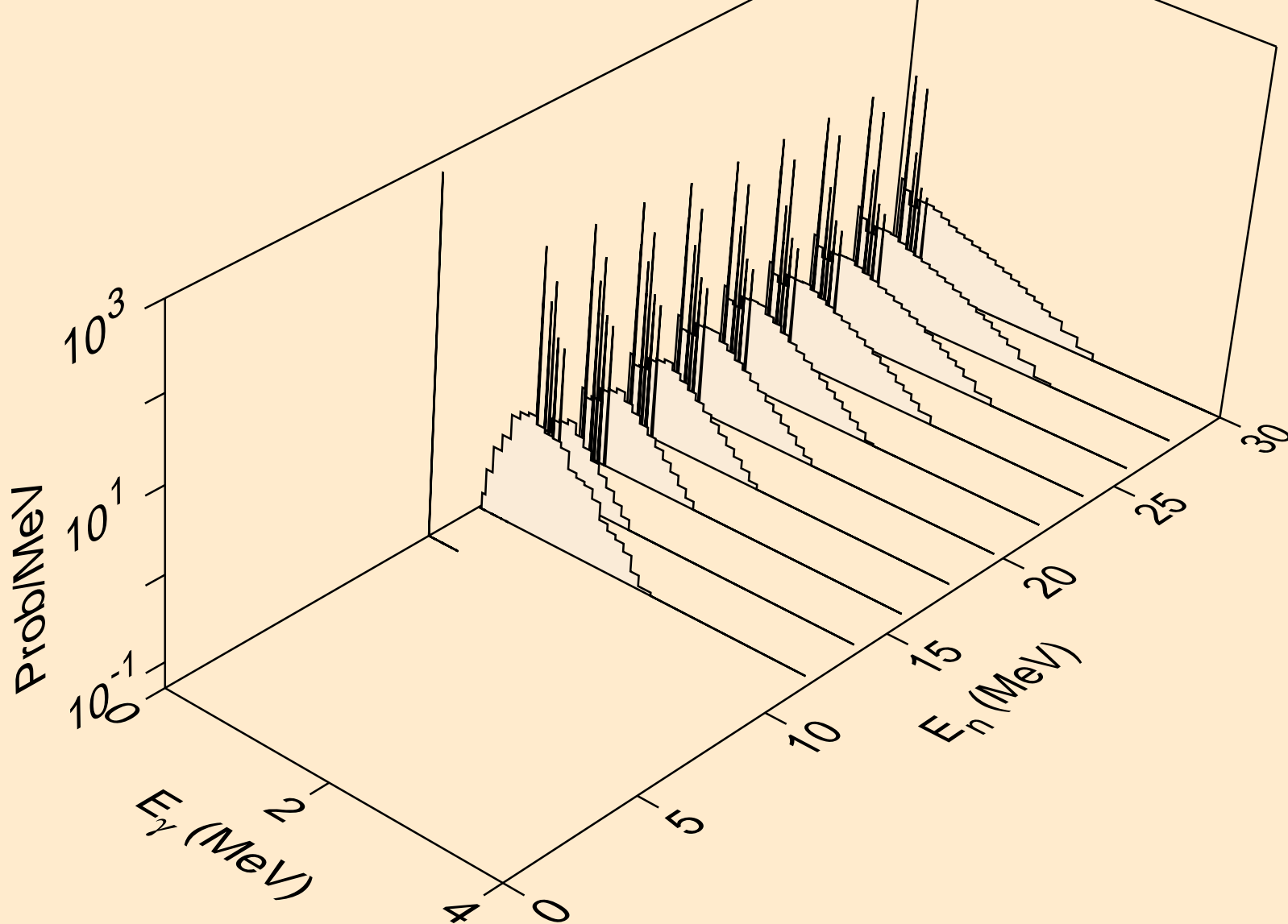
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,he3)



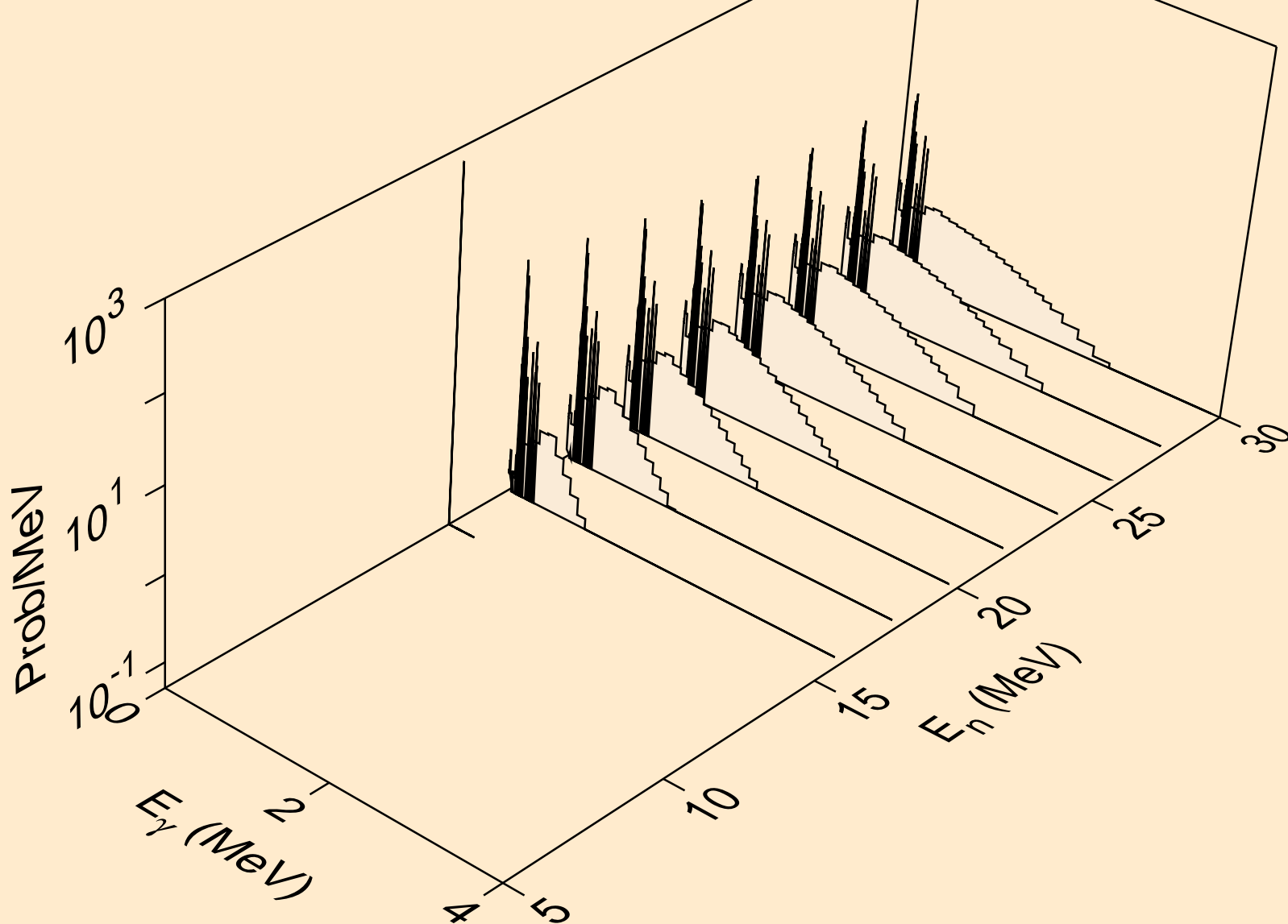
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,a)



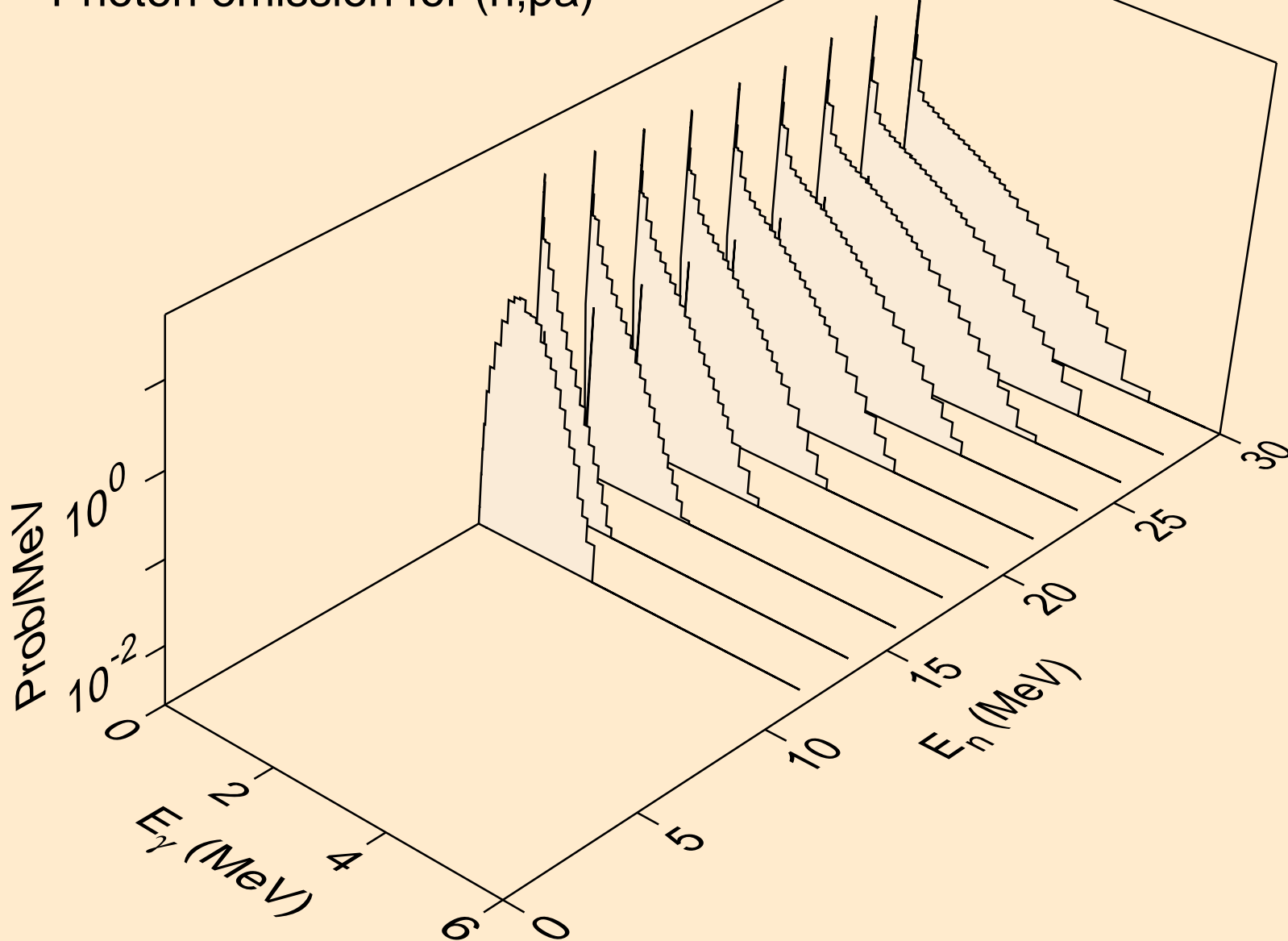
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,2a)



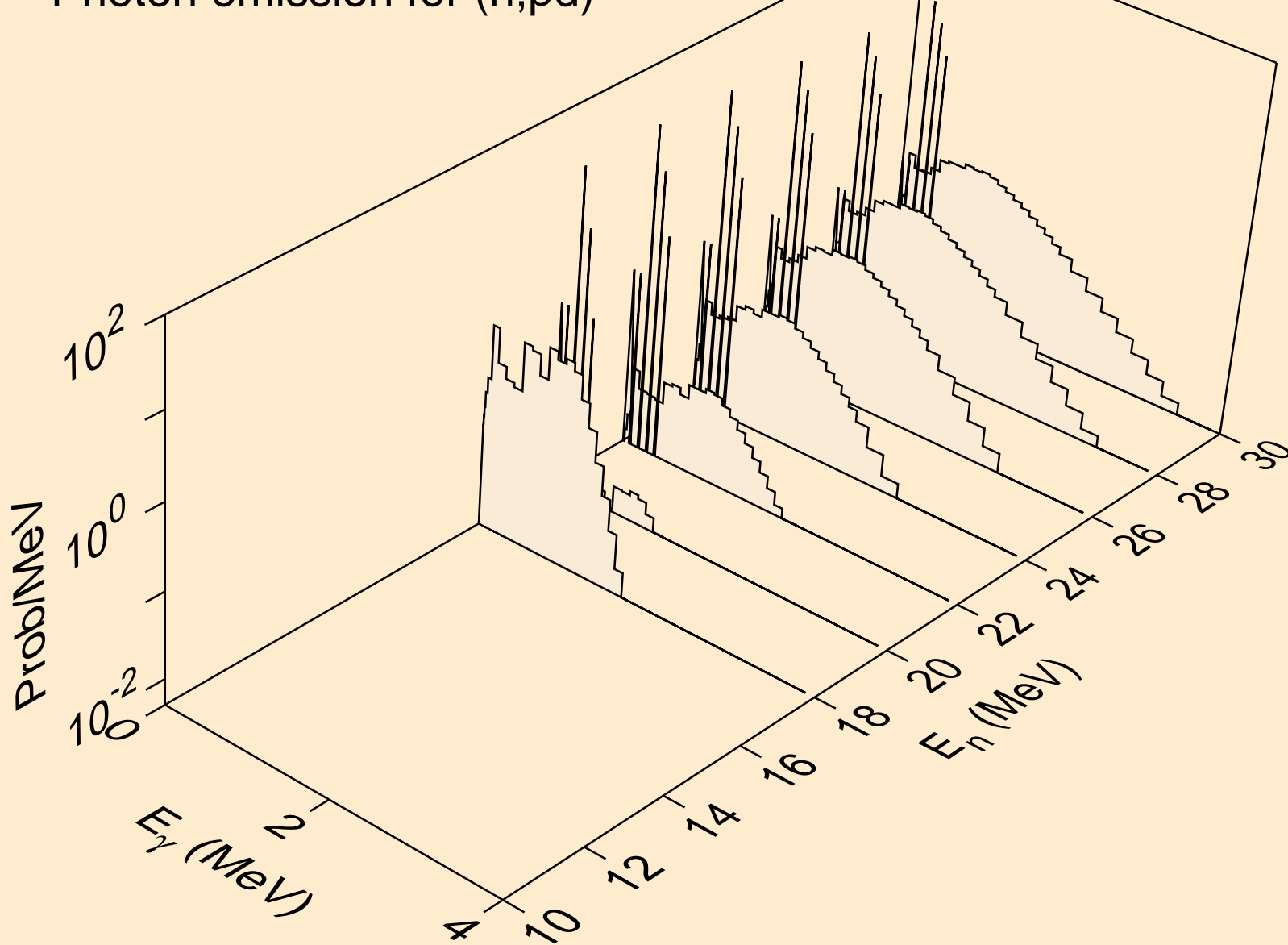
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,2p)



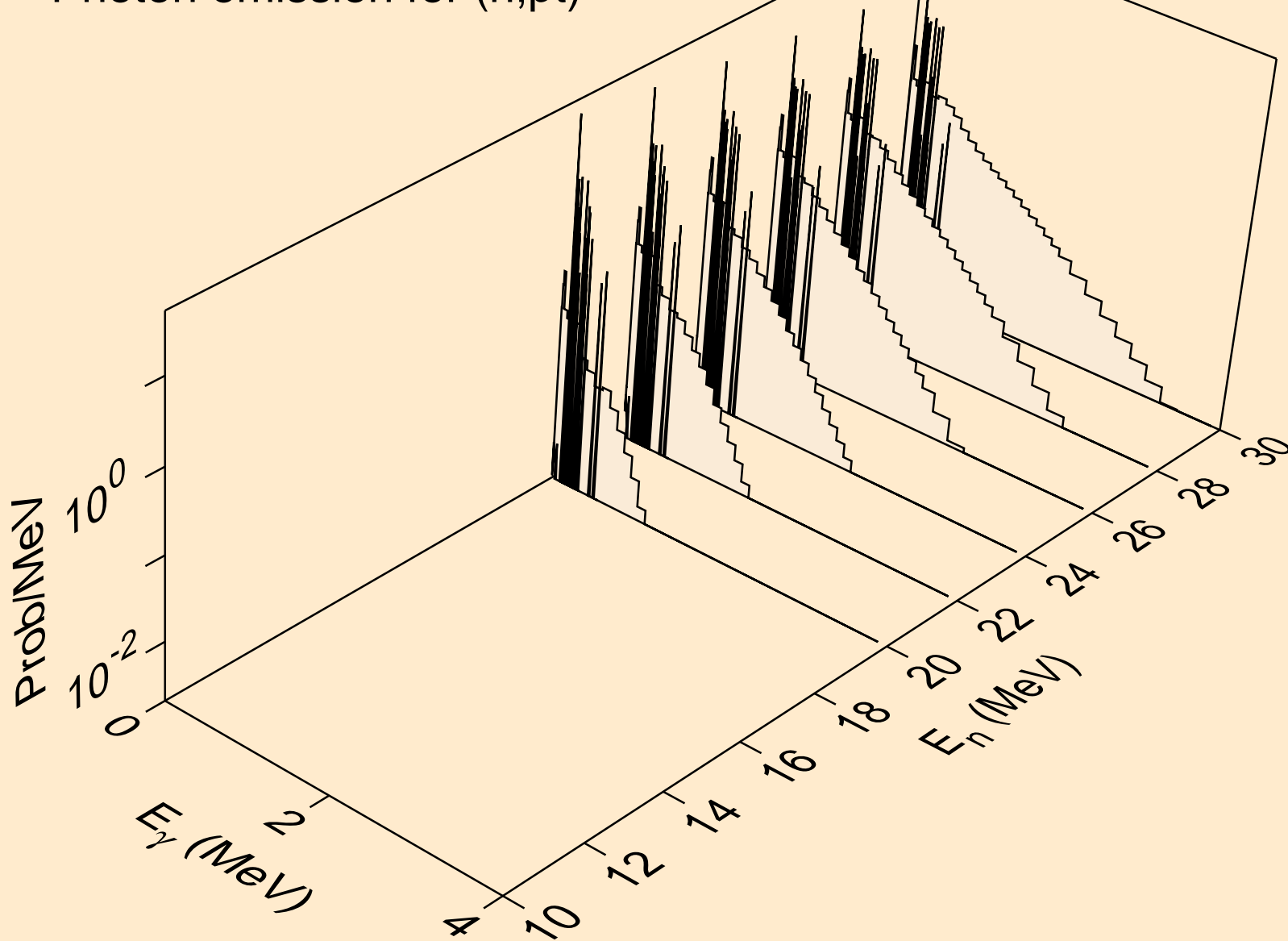
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,p α)



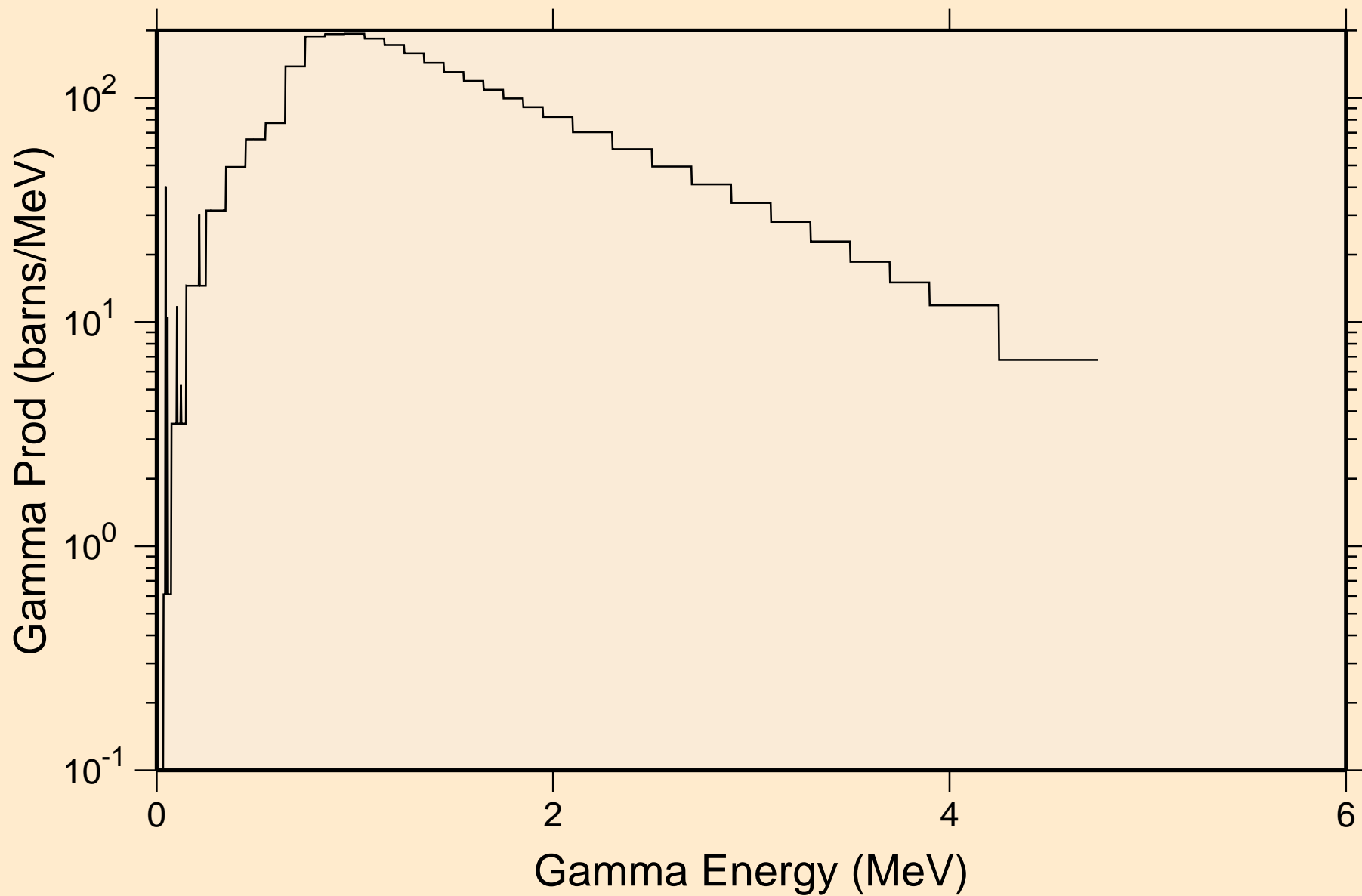
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,pd)



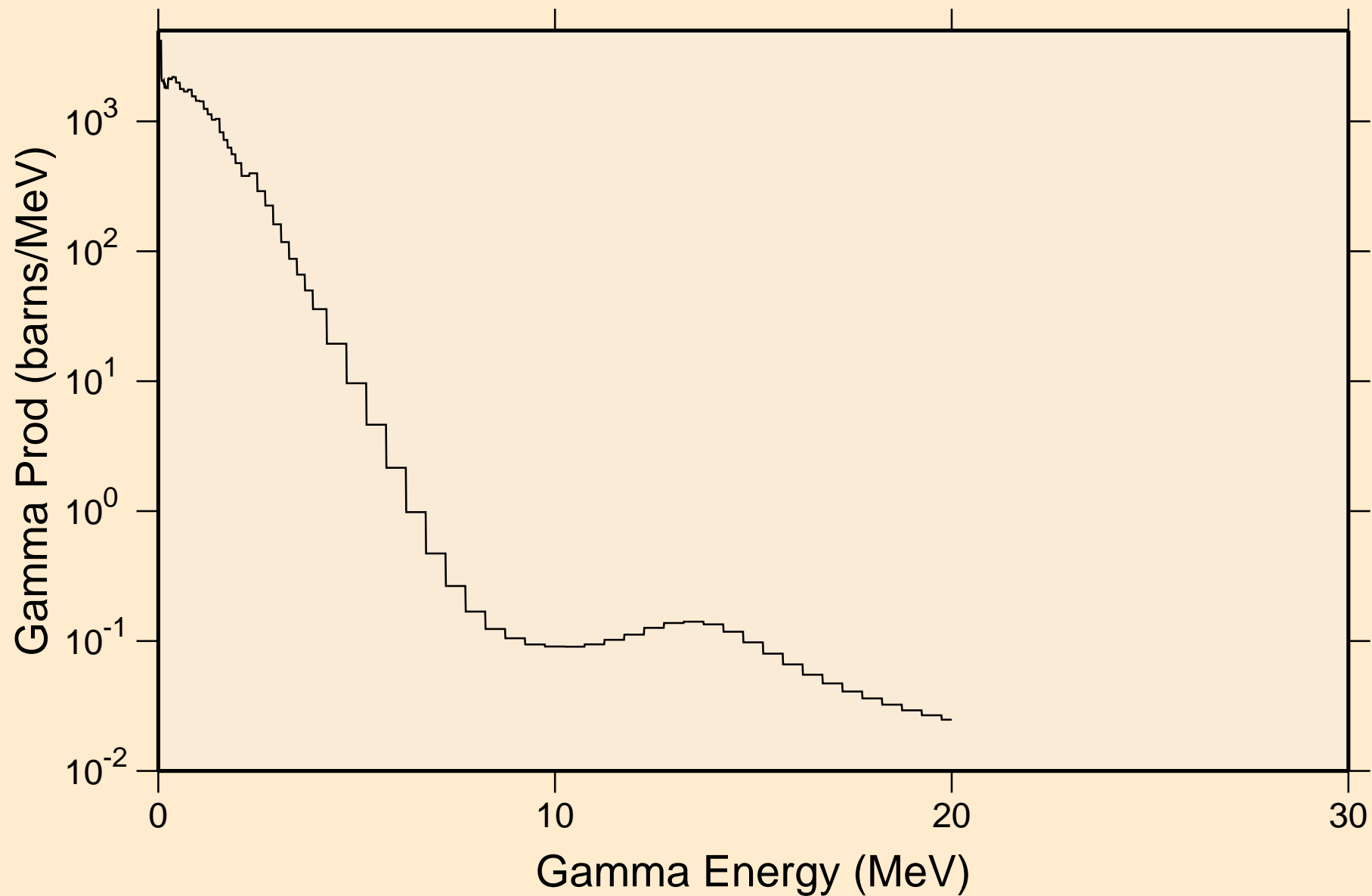
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,pt)



HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
thermal capture photon spectrum

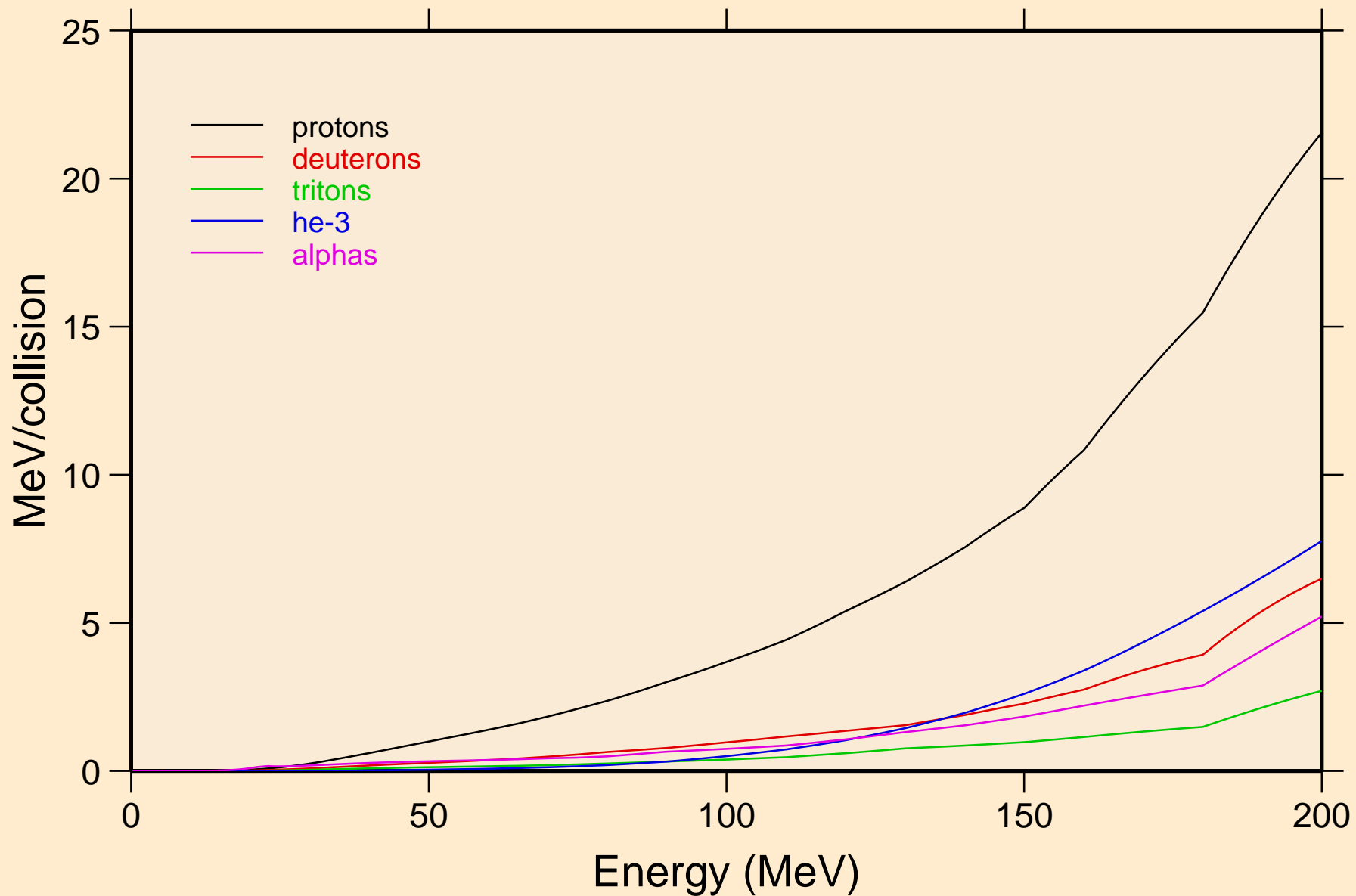


HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
14 MeV photon spectrum

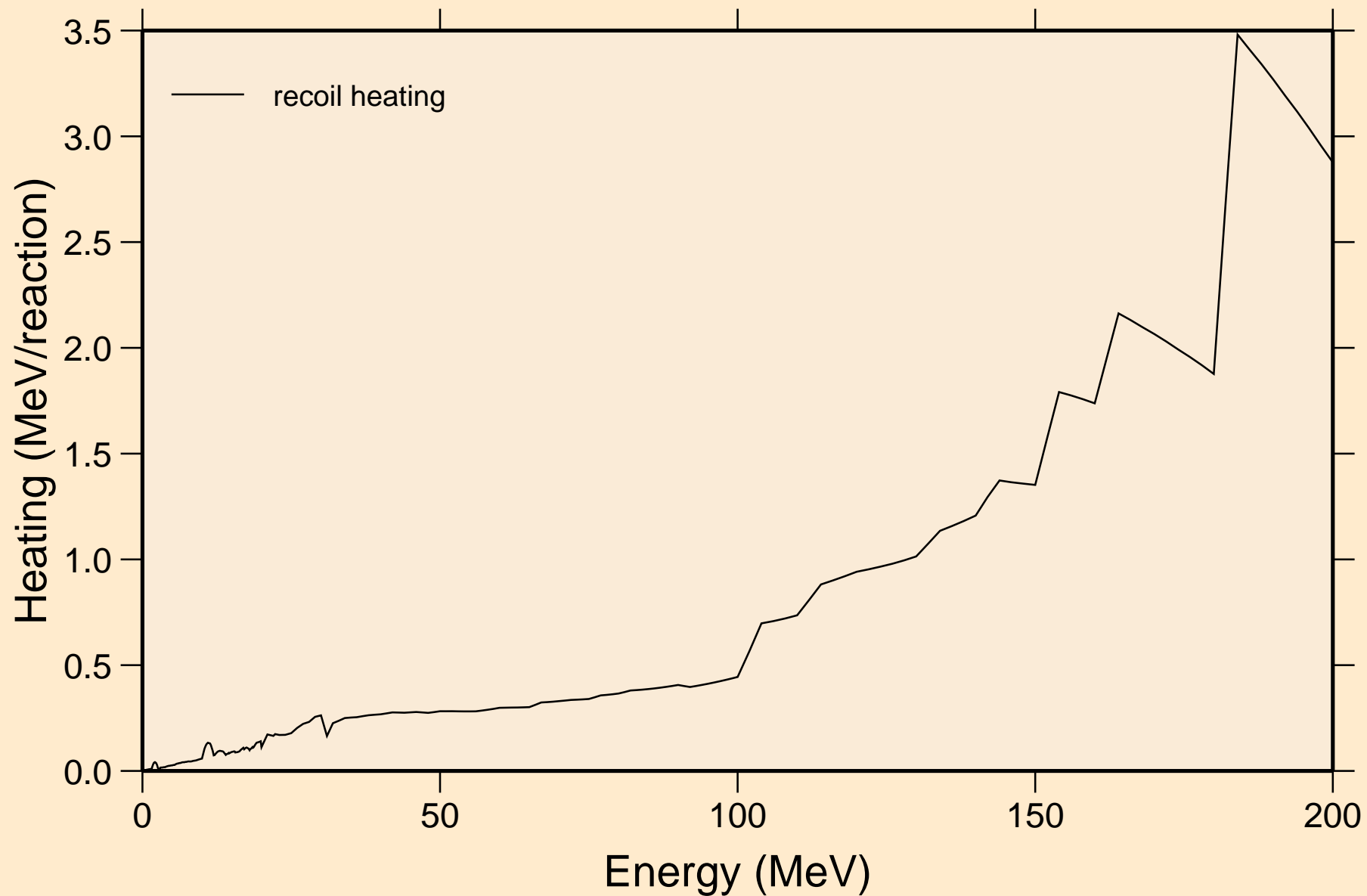


HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

Particle heating contributions

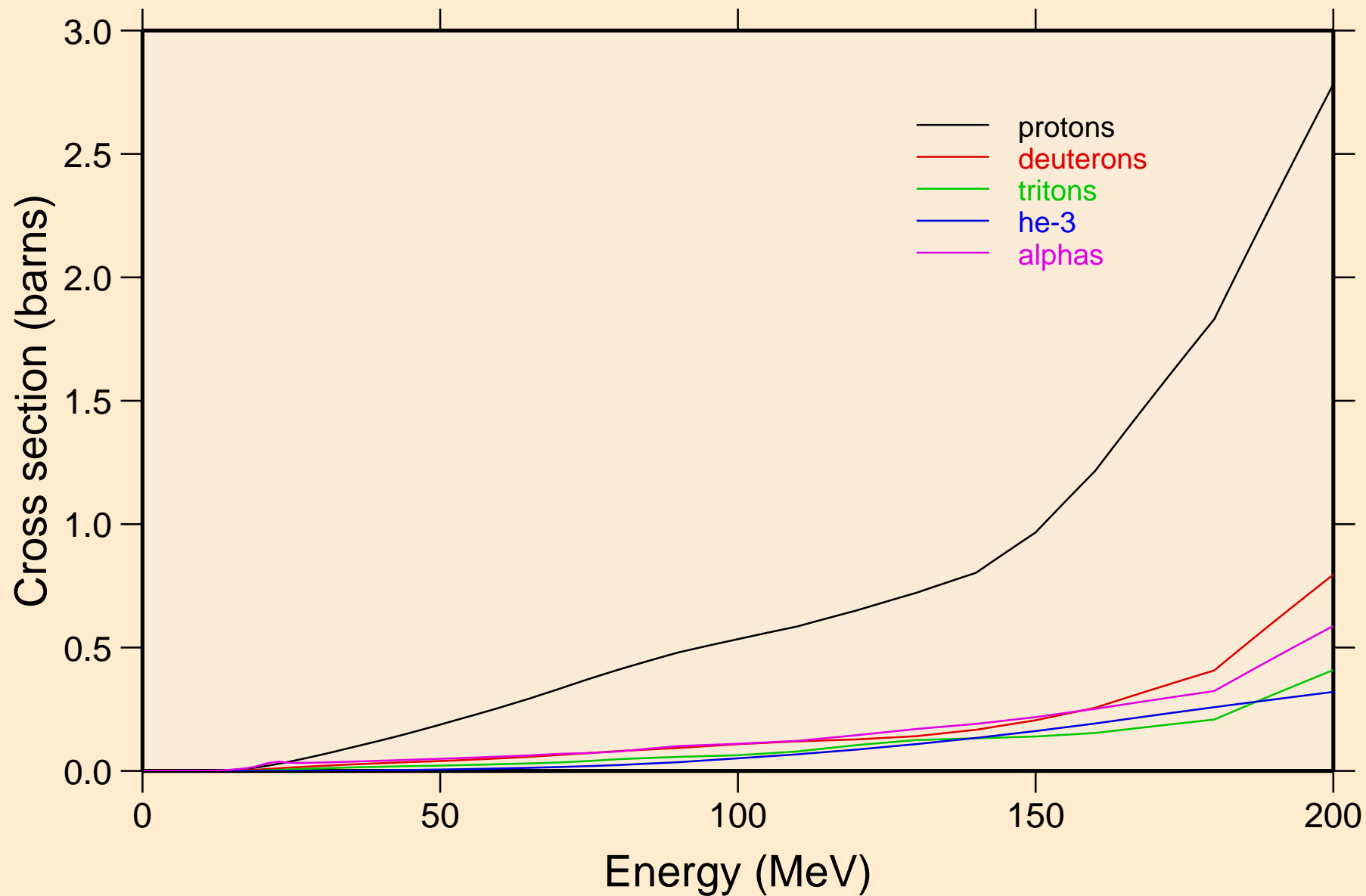


HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Recoil Heating

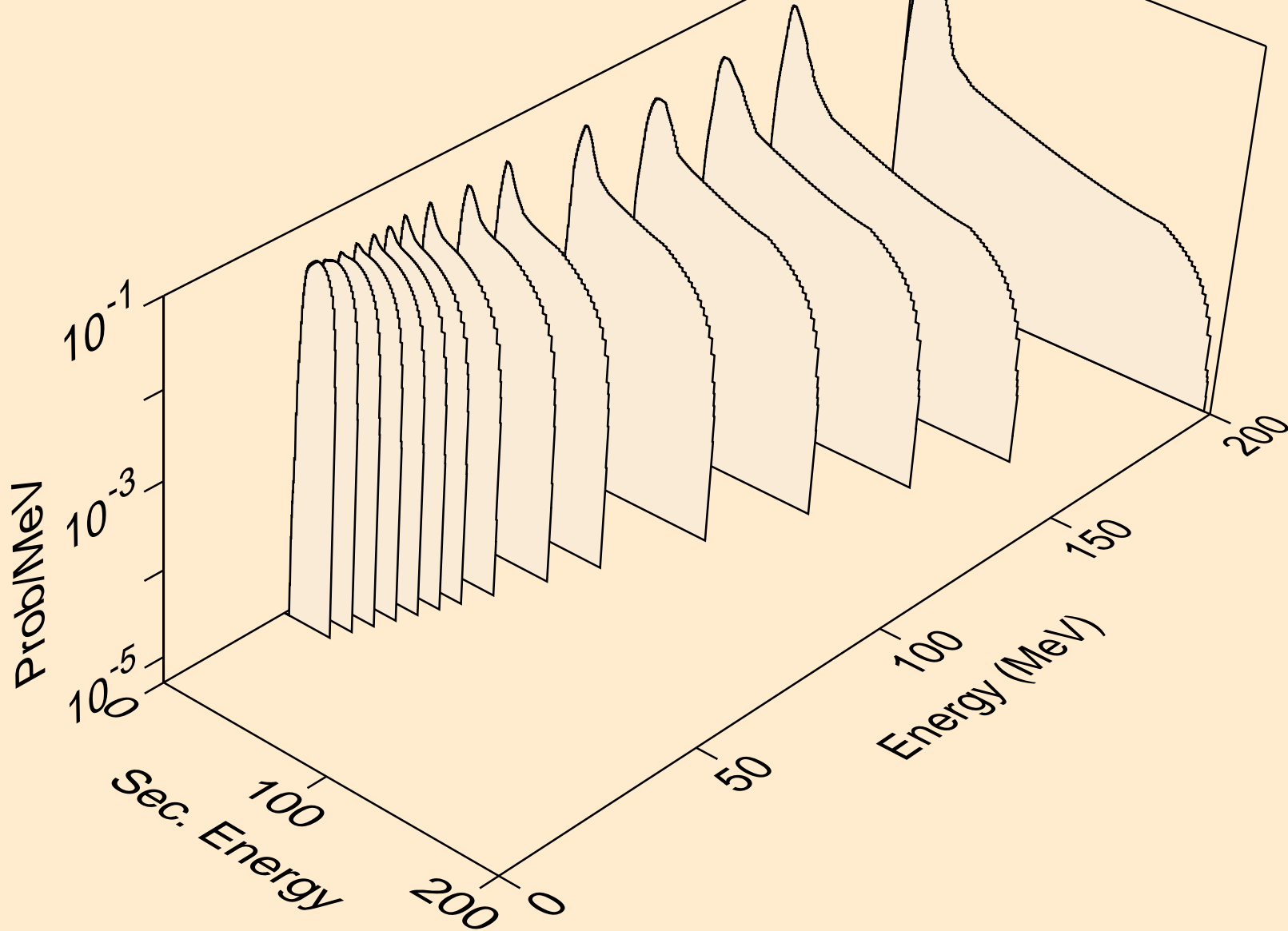


HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

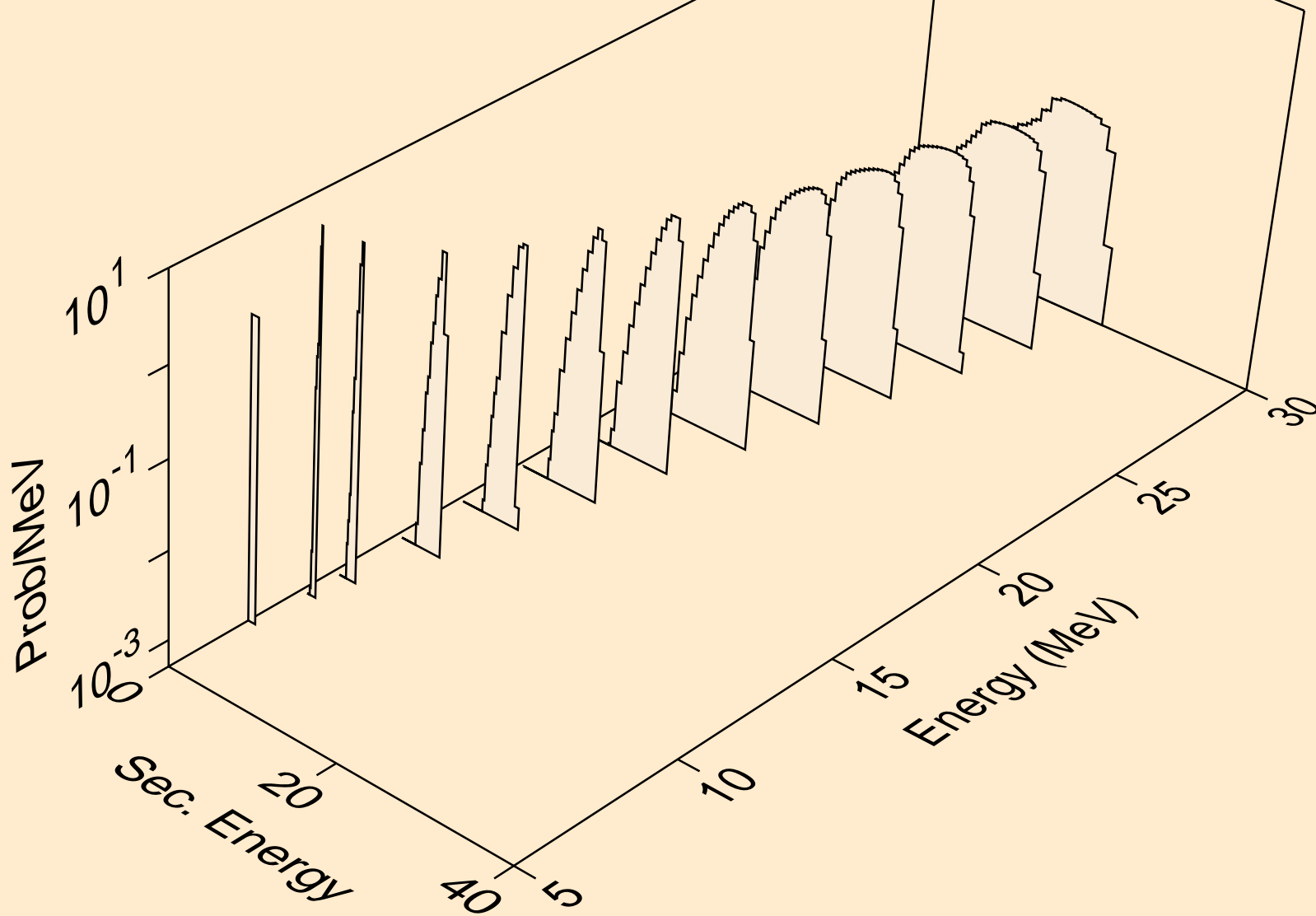
Particle production cross sections



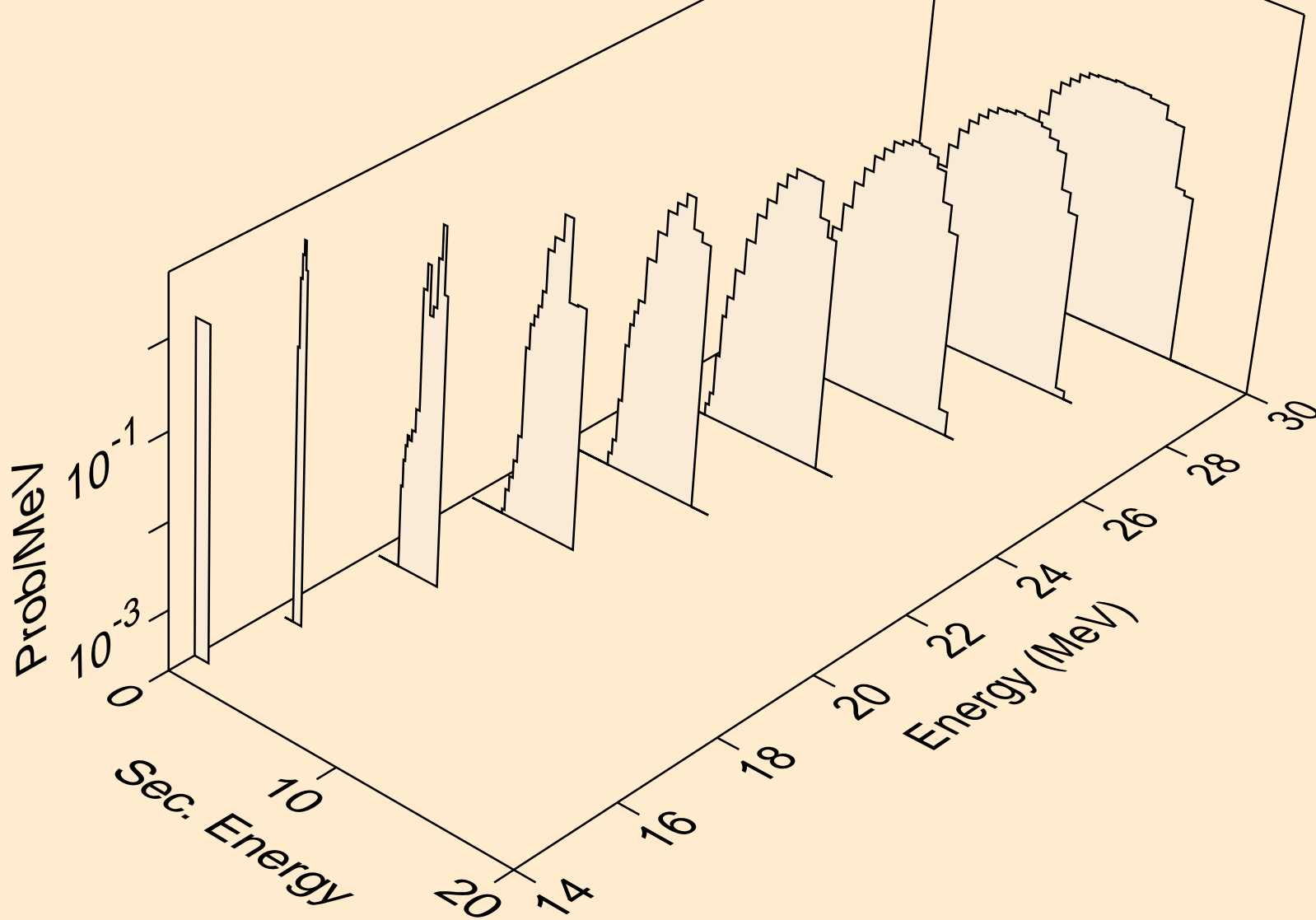
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,x)



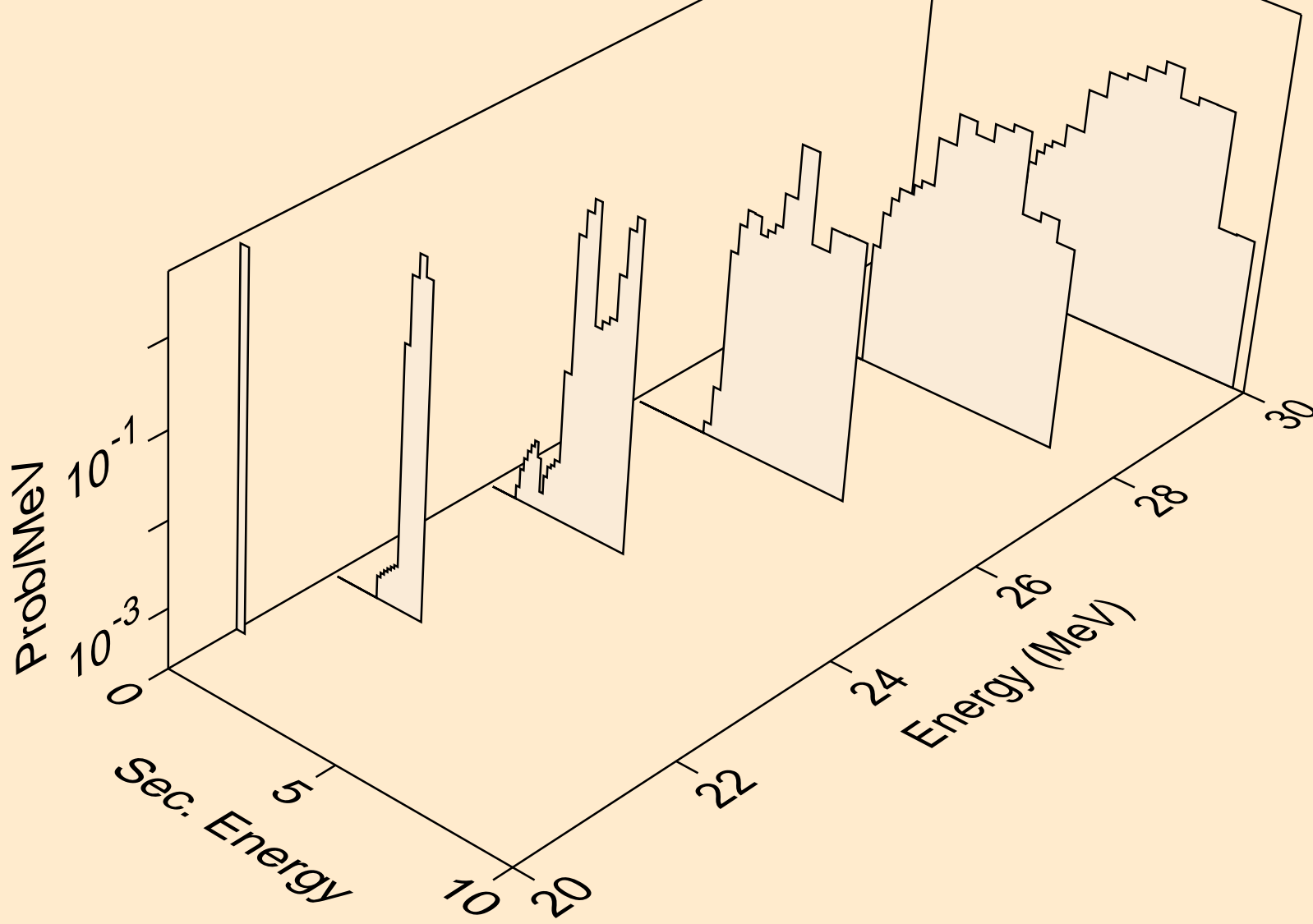
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,n*)p



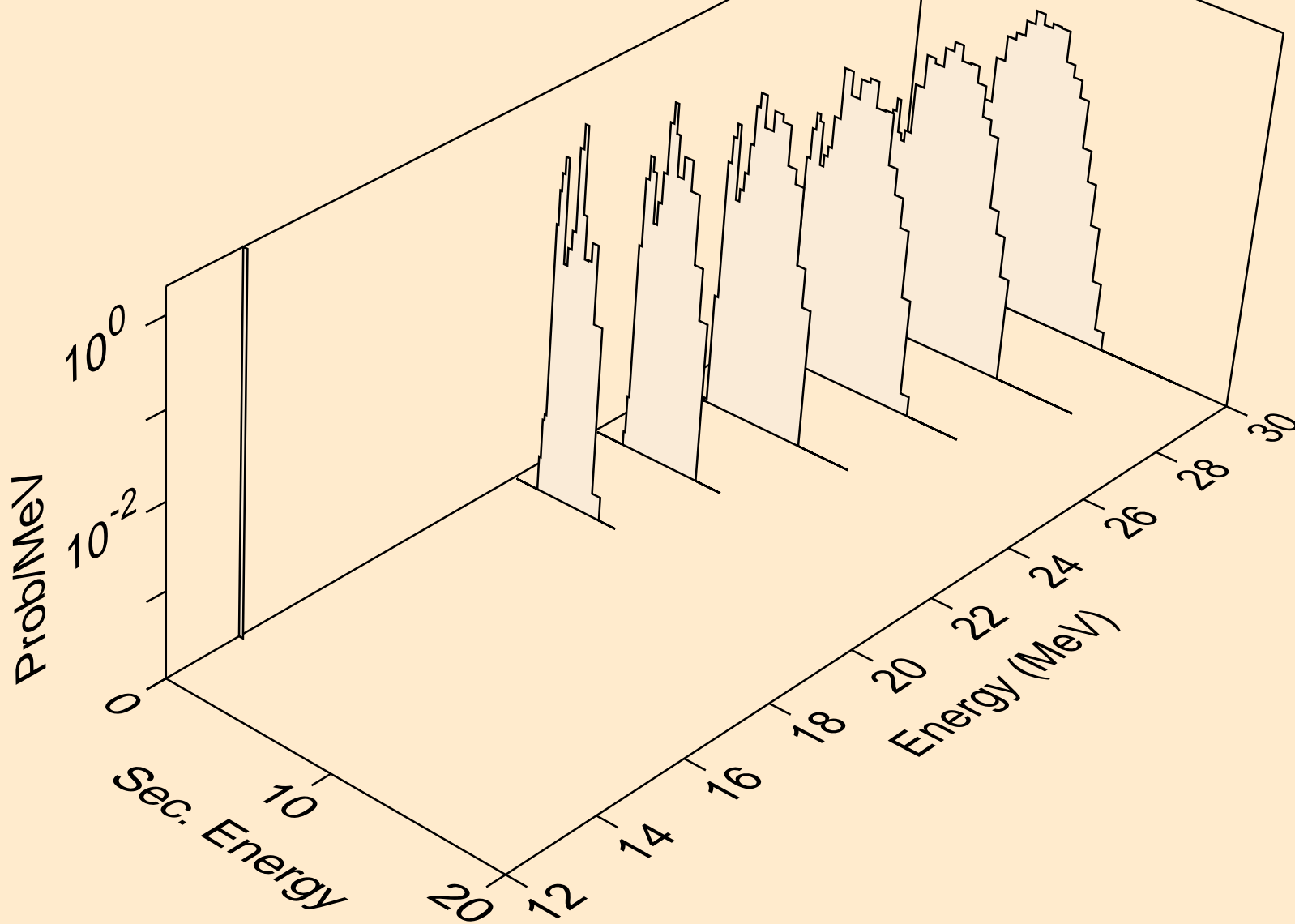
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,2np)



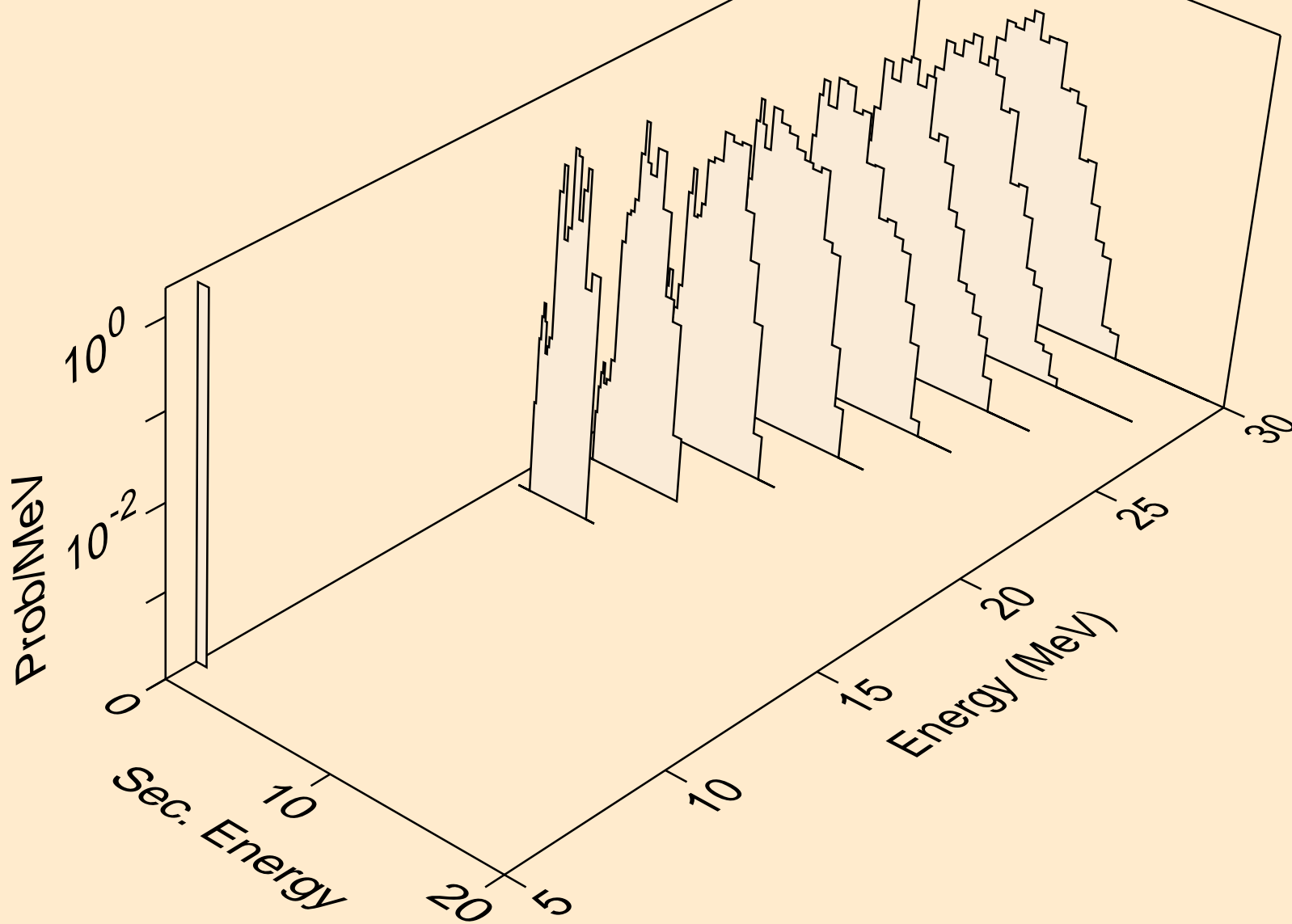
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,3np)



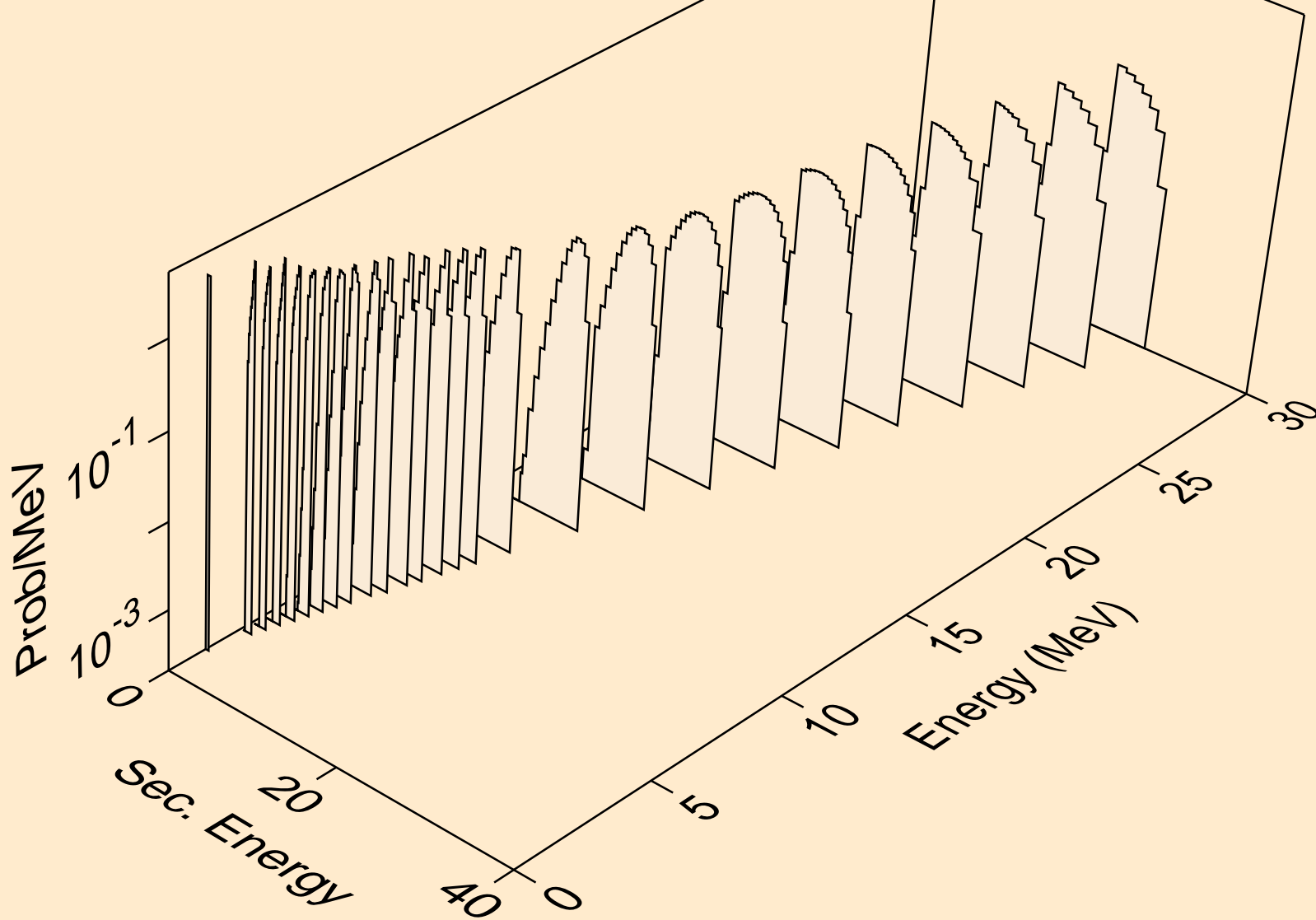
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,2np)



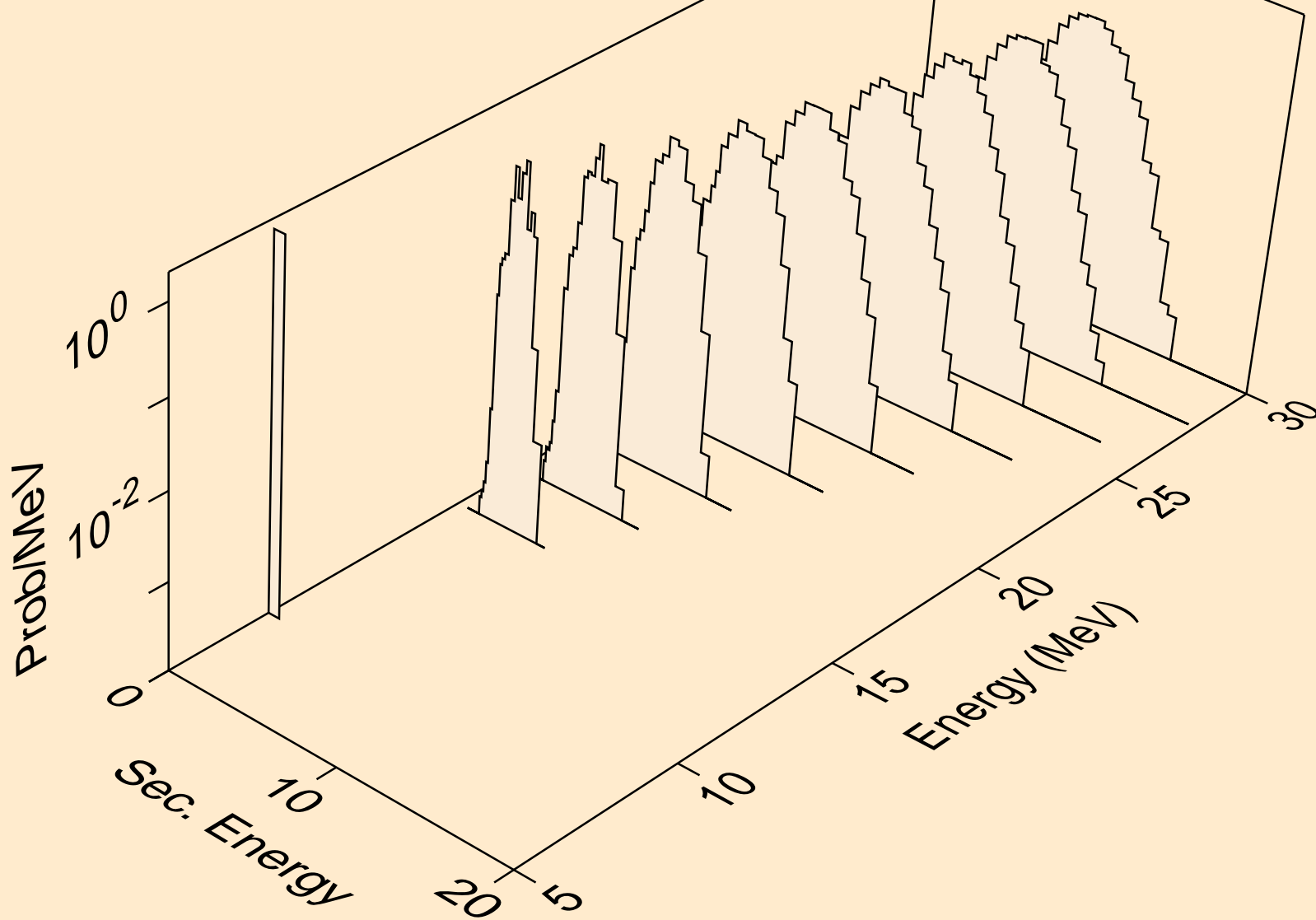
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,npa)



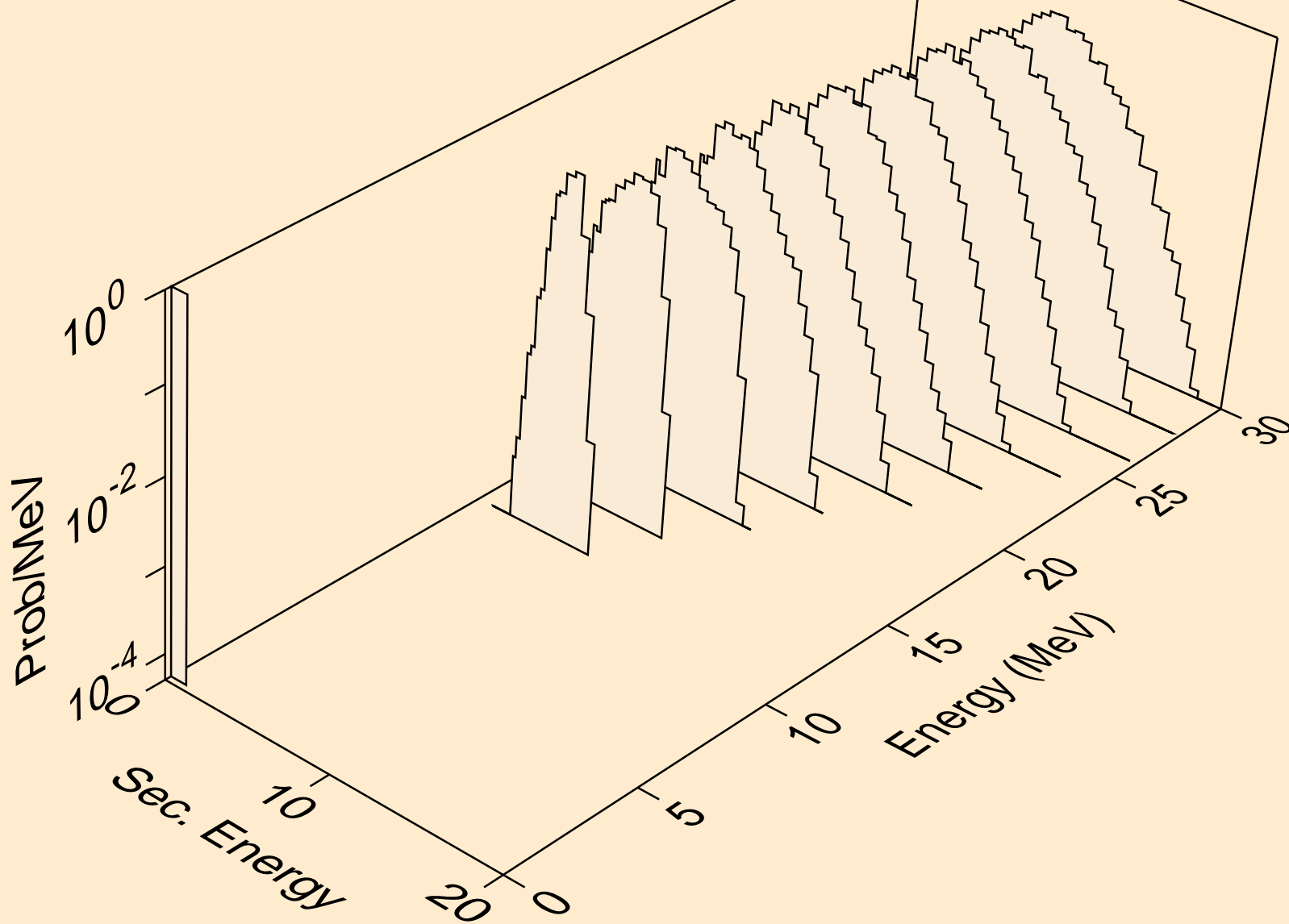
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,p)



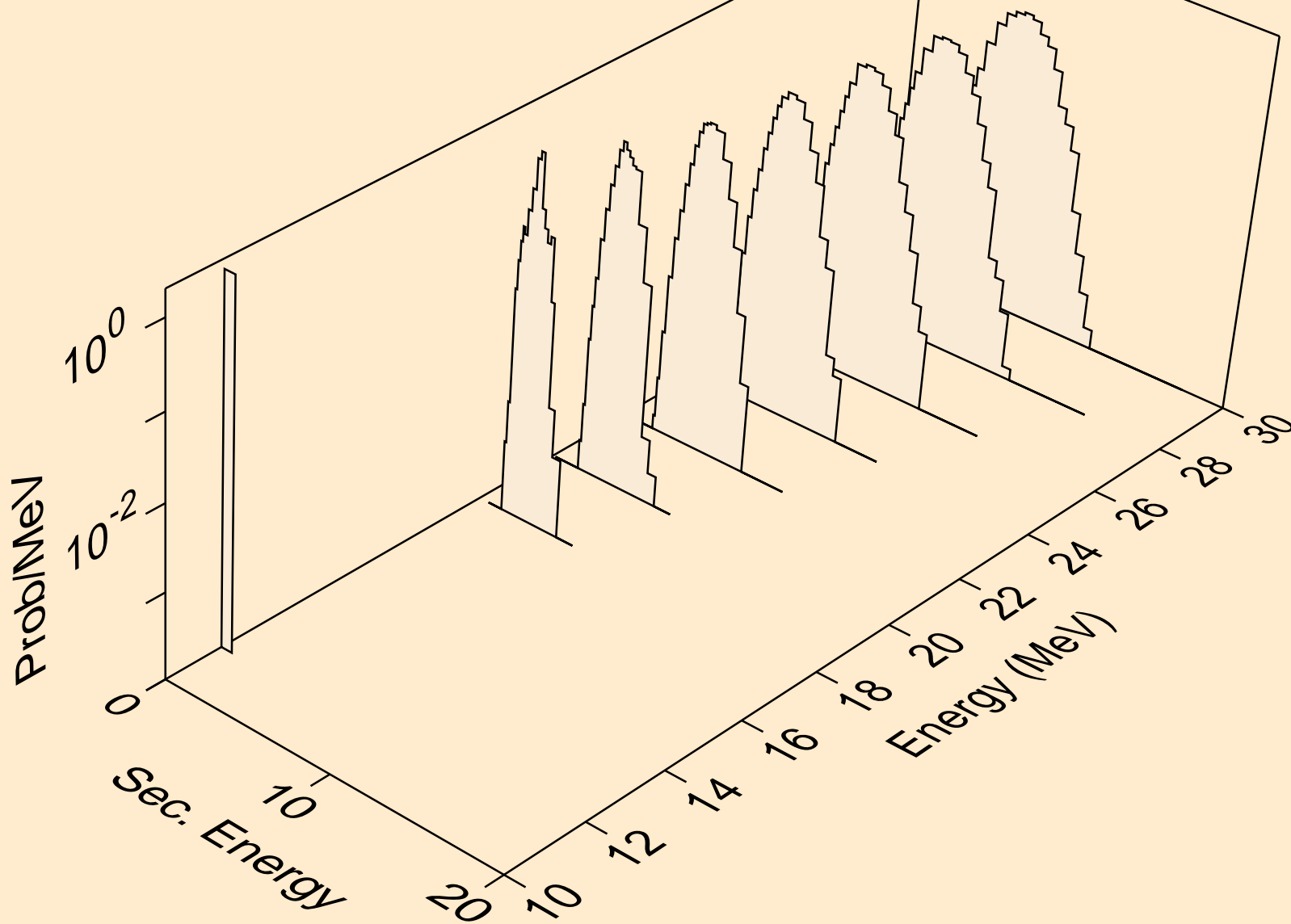
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,2p)



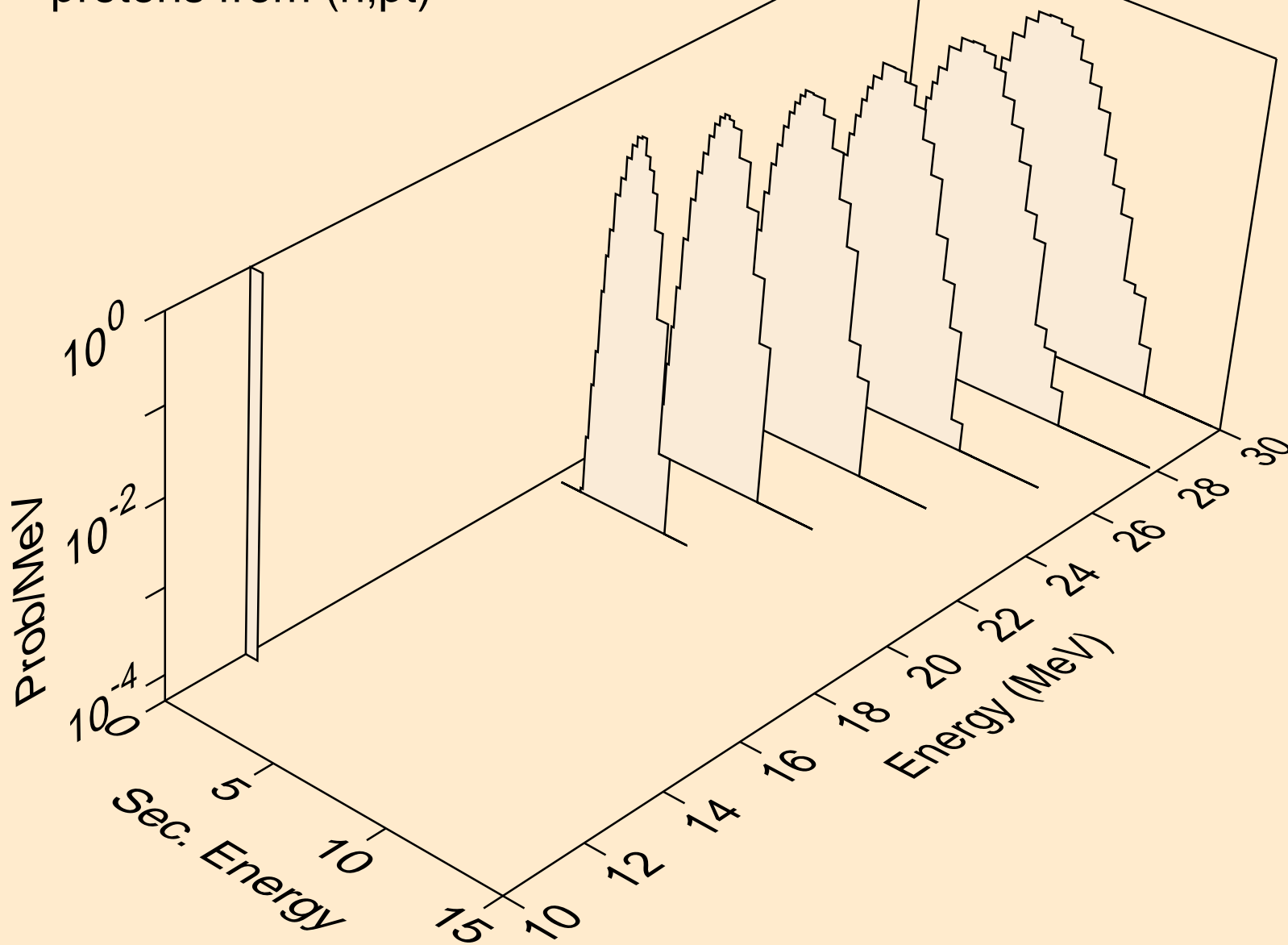
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,p)



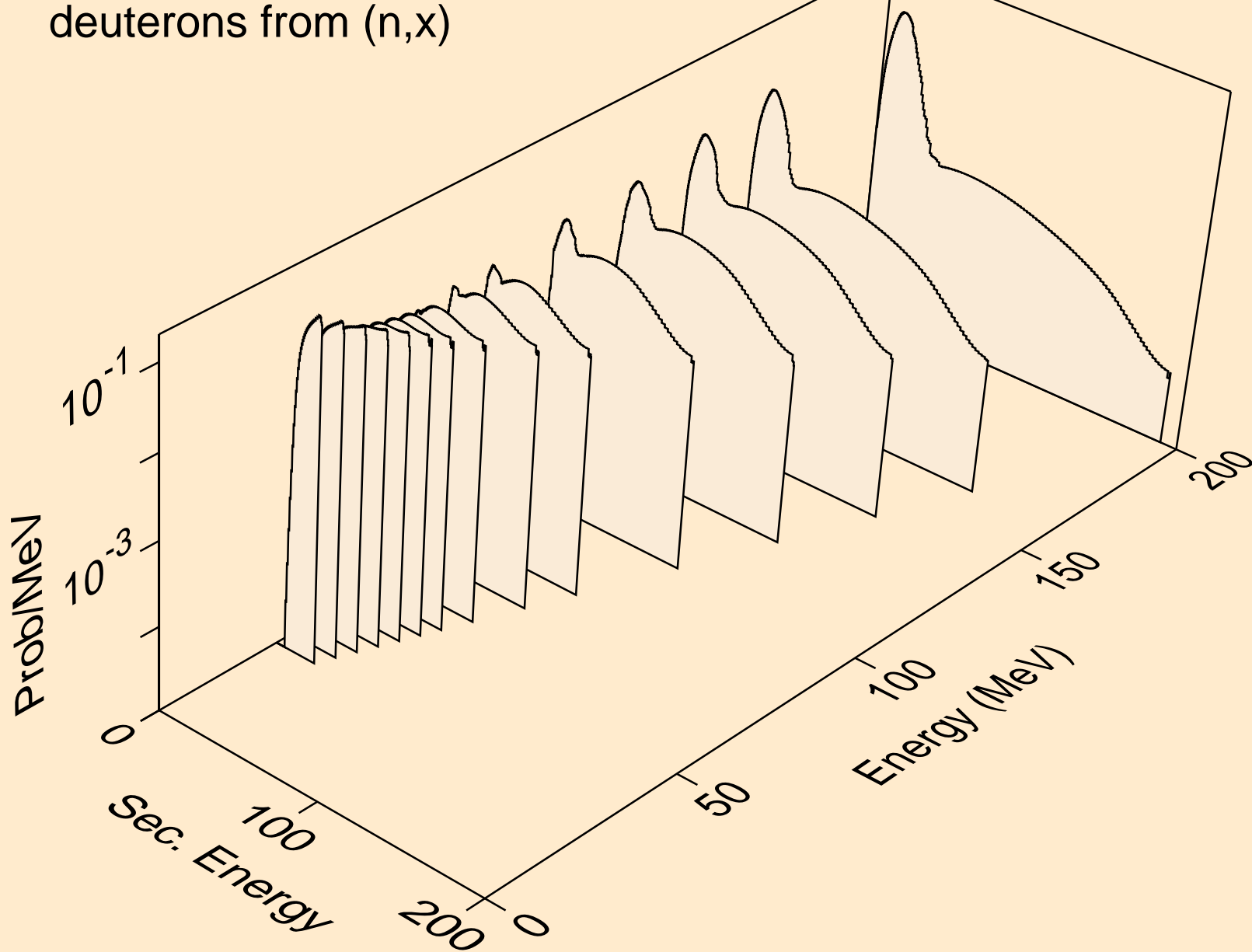
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,pd)



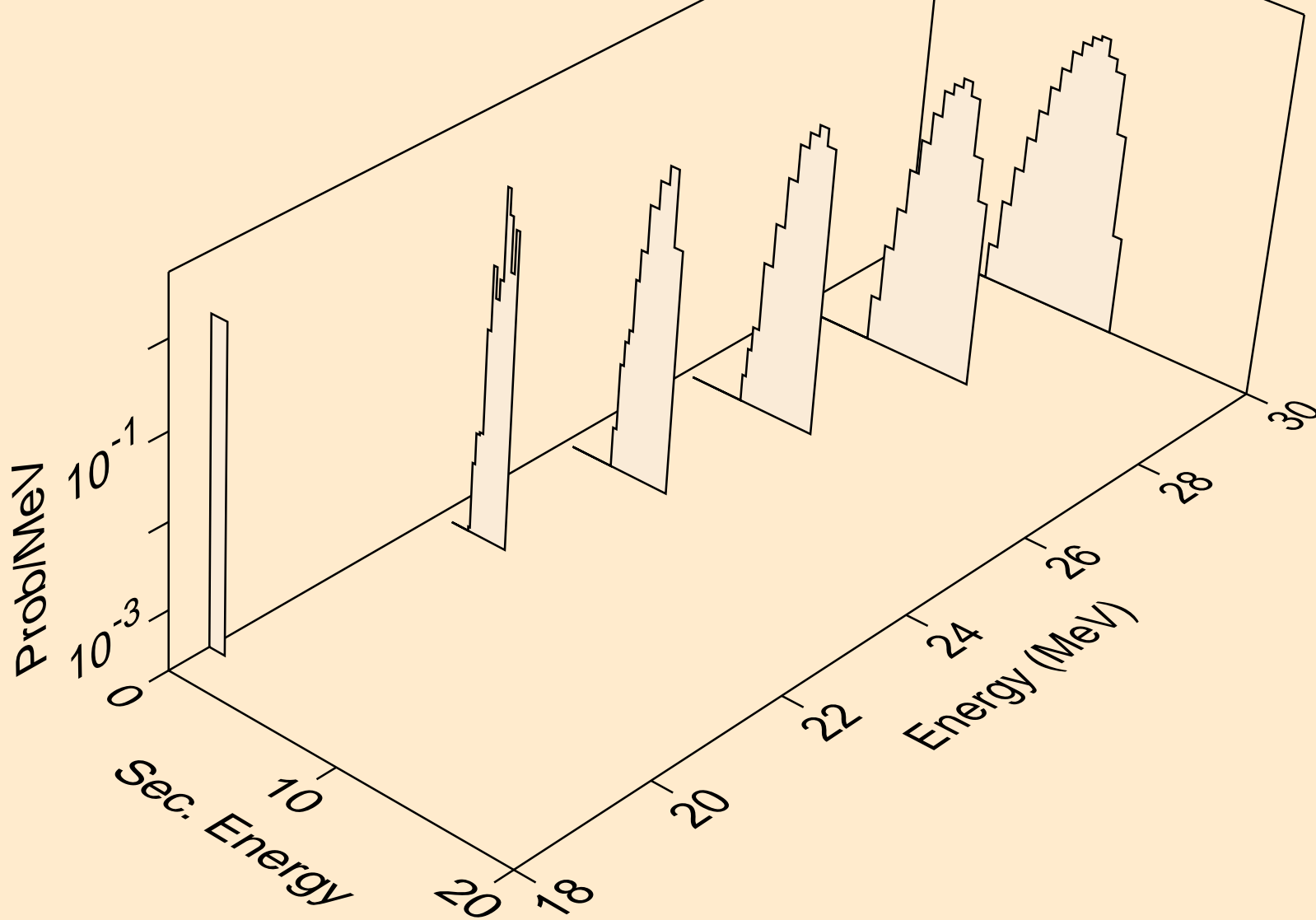
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,pt)



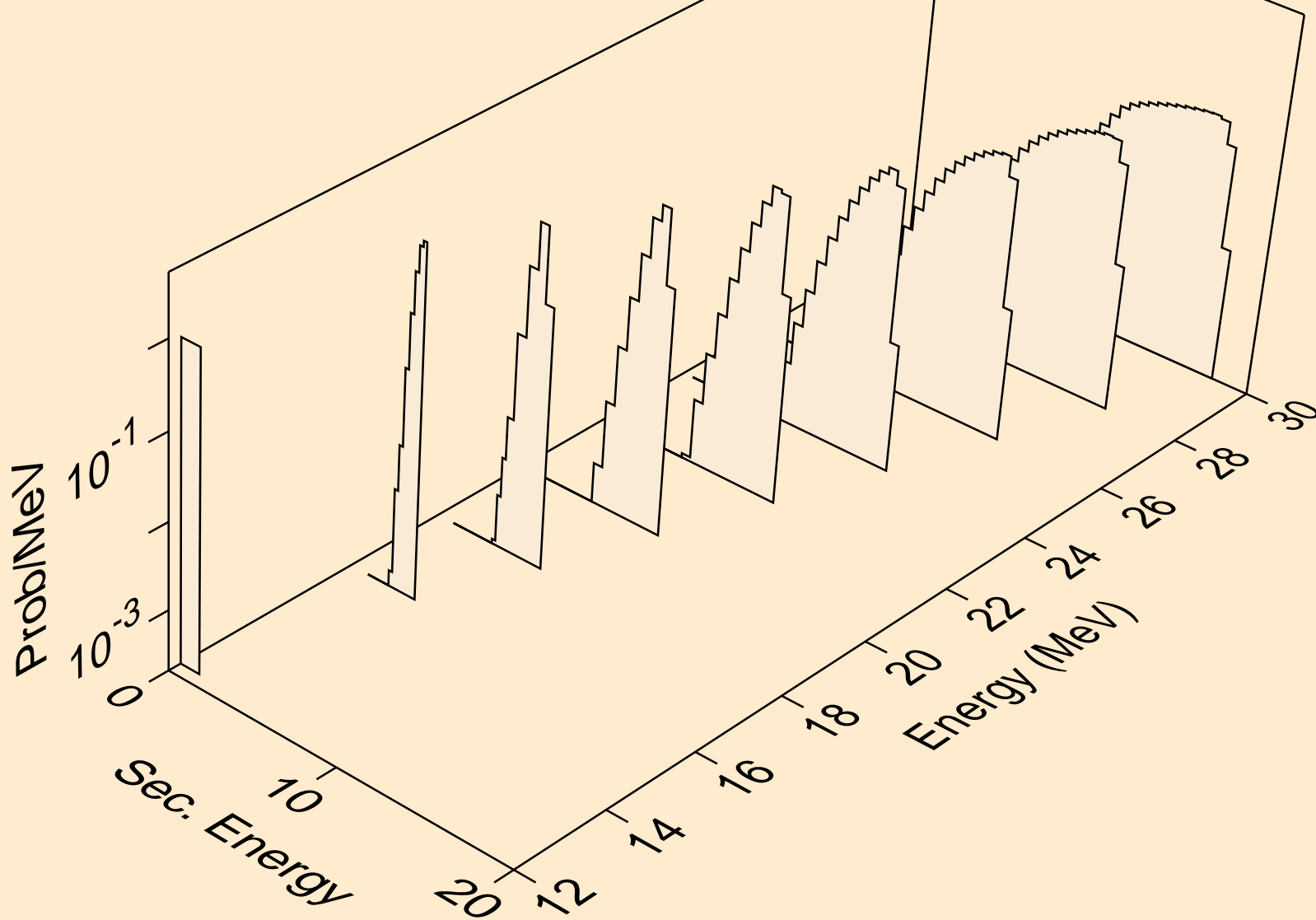
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
deuterons from (n,x)



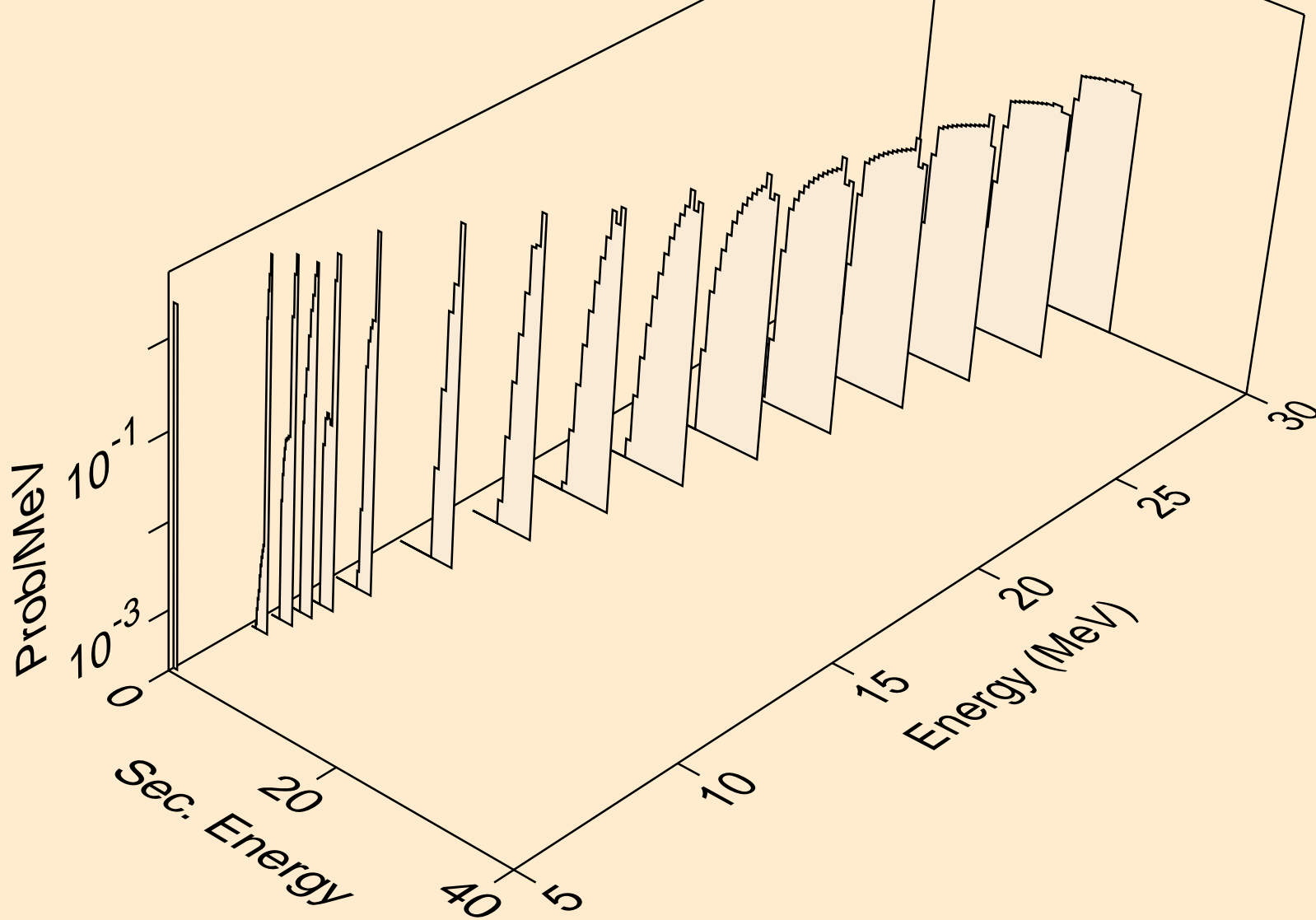
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
deuterons from (n,2nd)



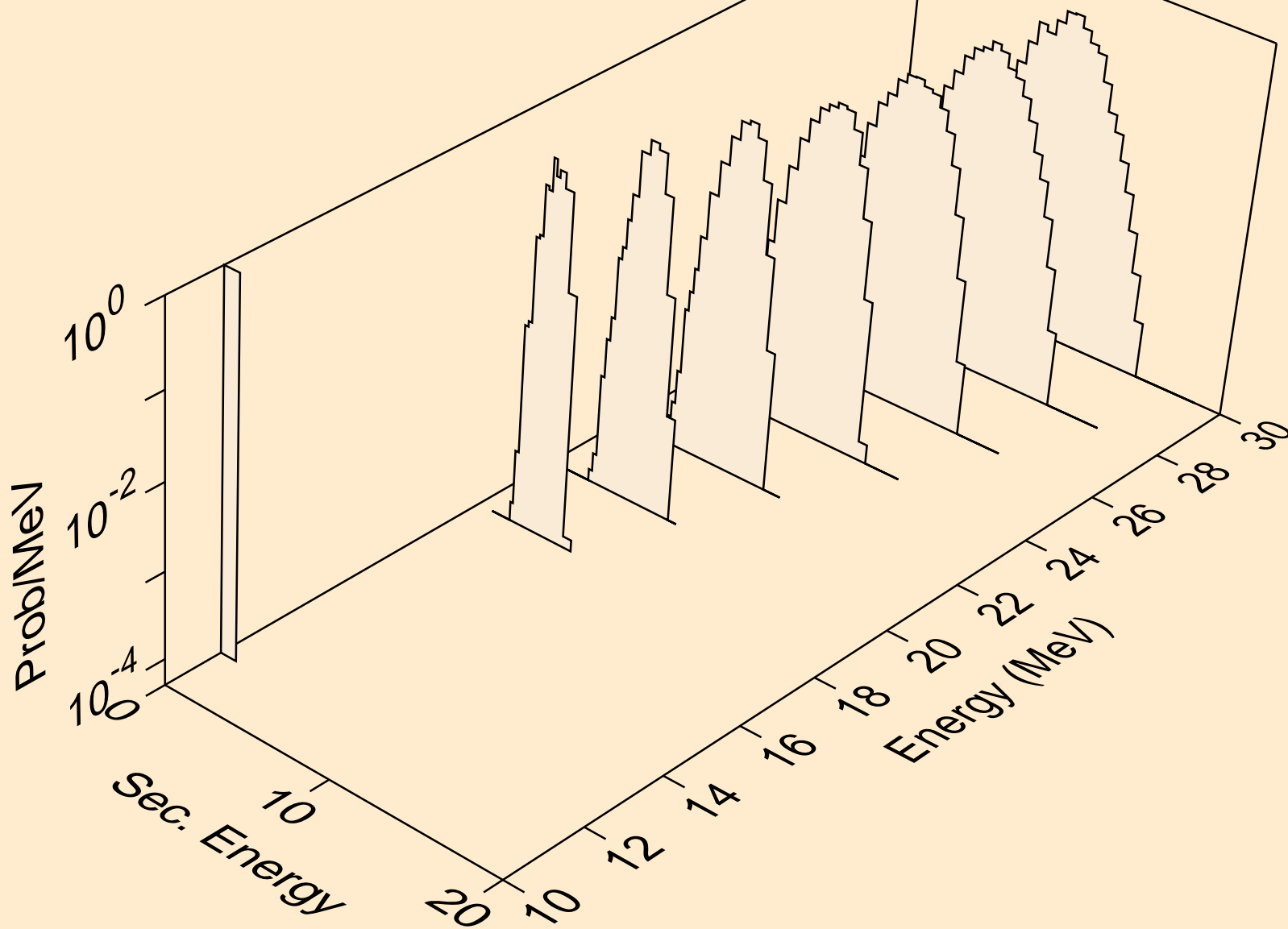
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
deuterons from (n,n*)d



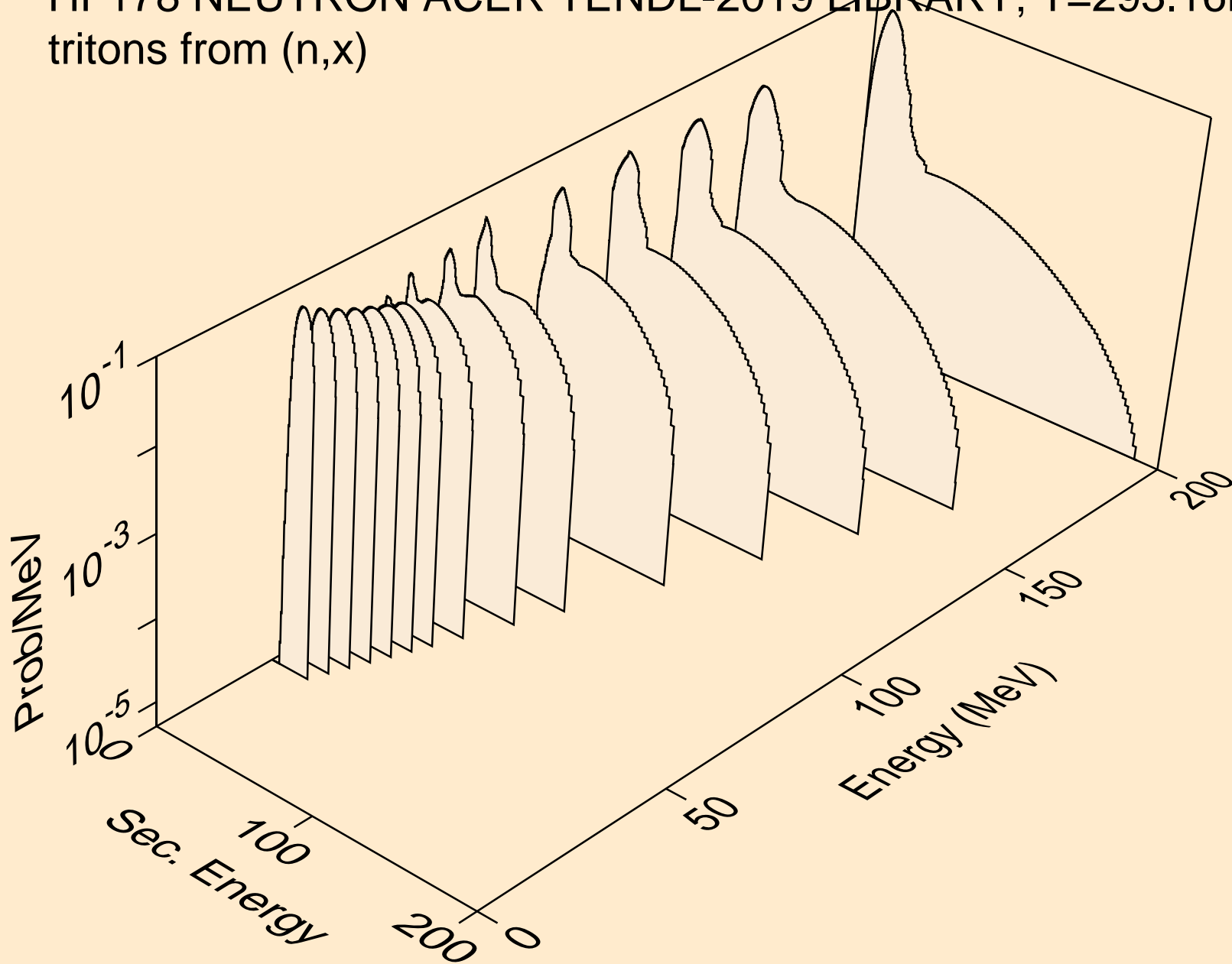
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
deuterons from (n,d)



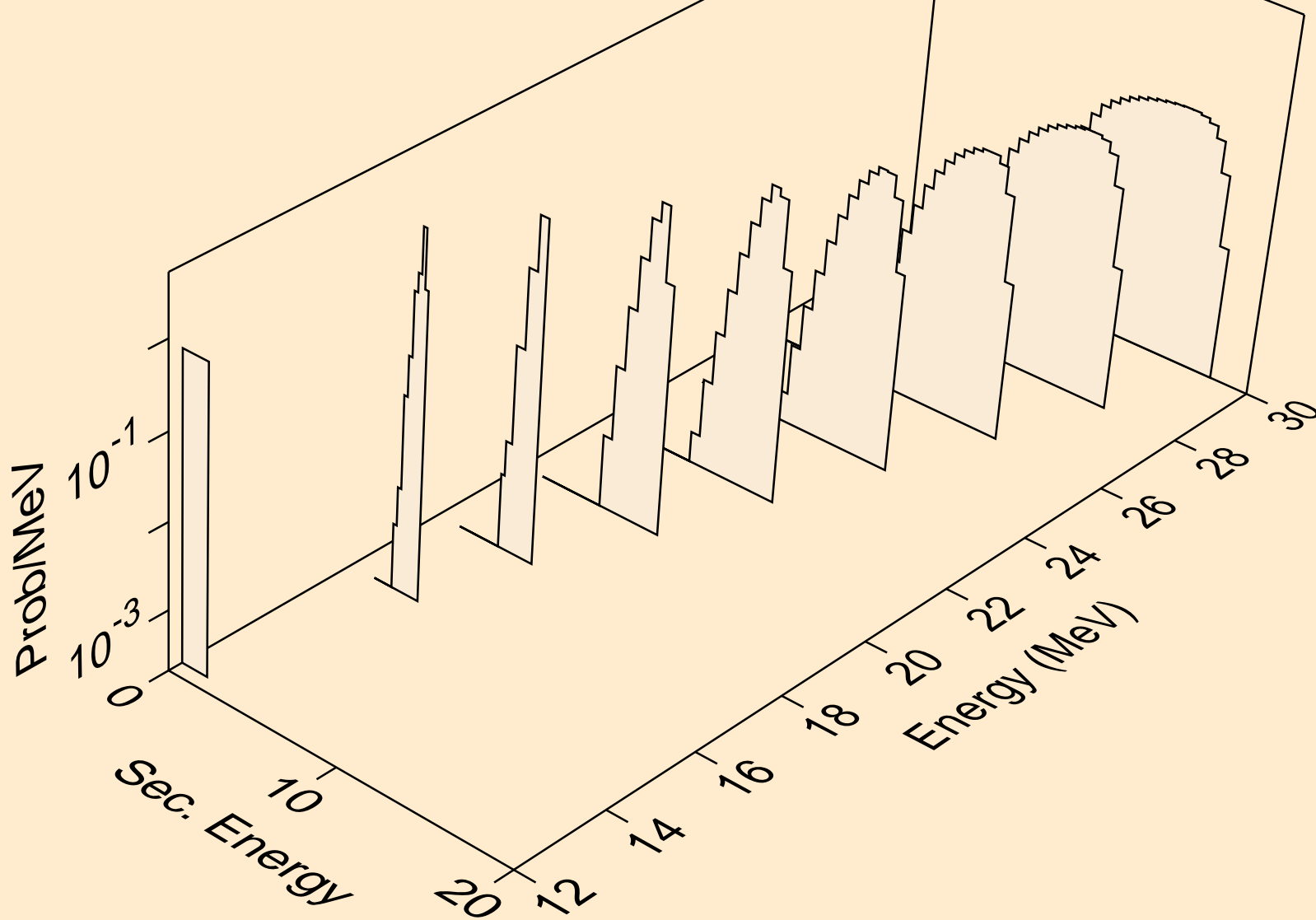
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
deuterons from (n,pd)



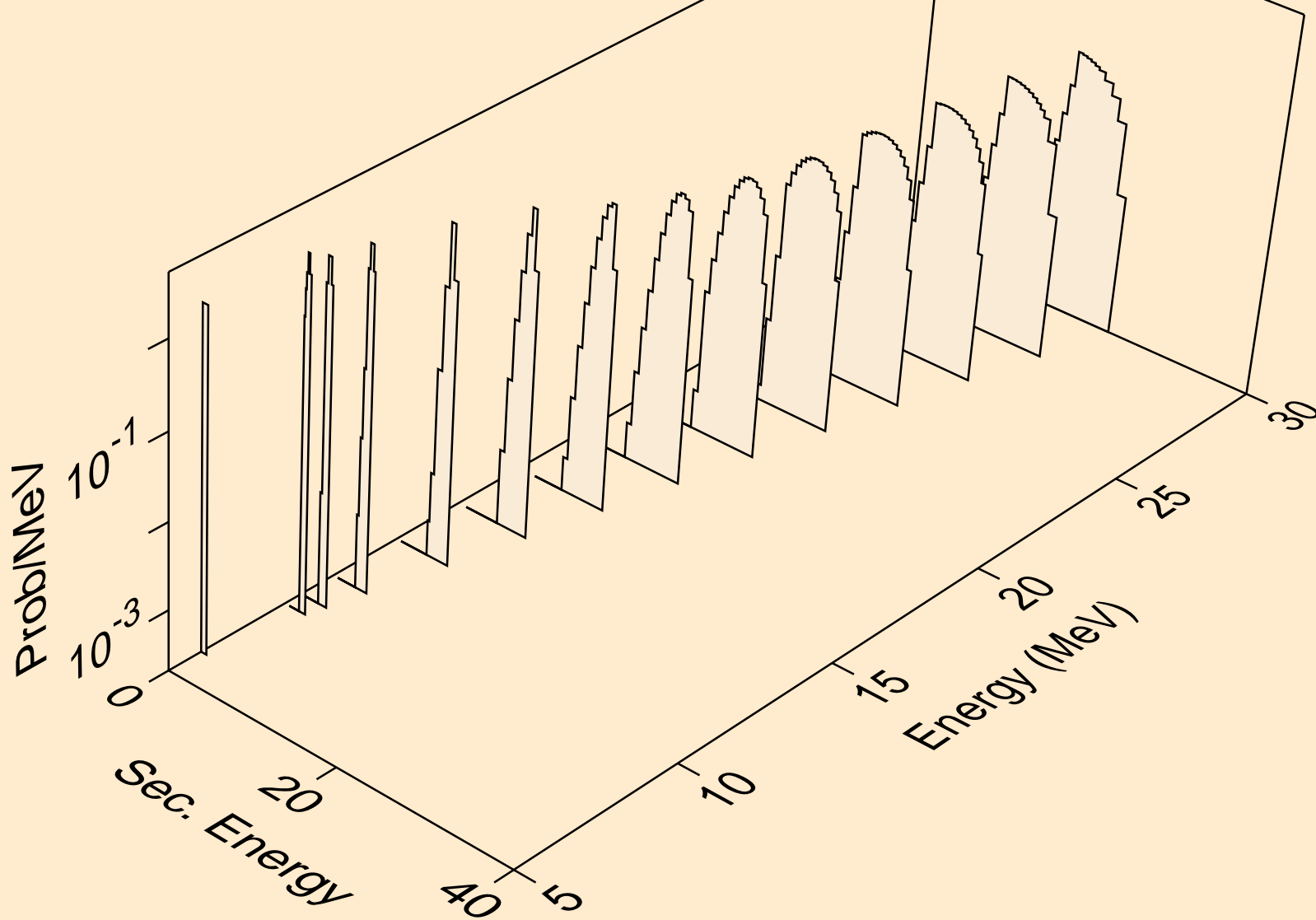
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
tritons from (n,x)



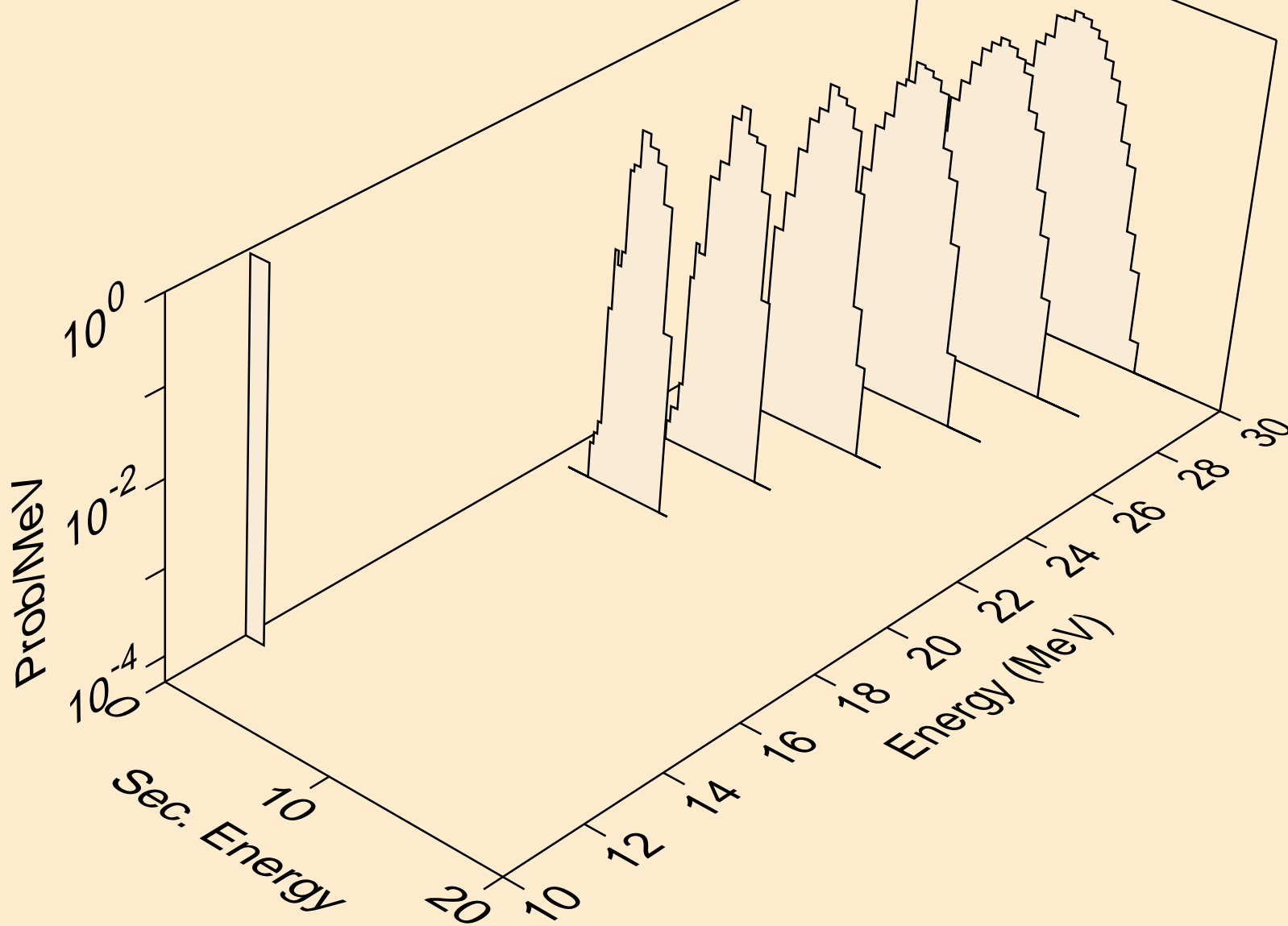
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
tritons from (n,n*)t



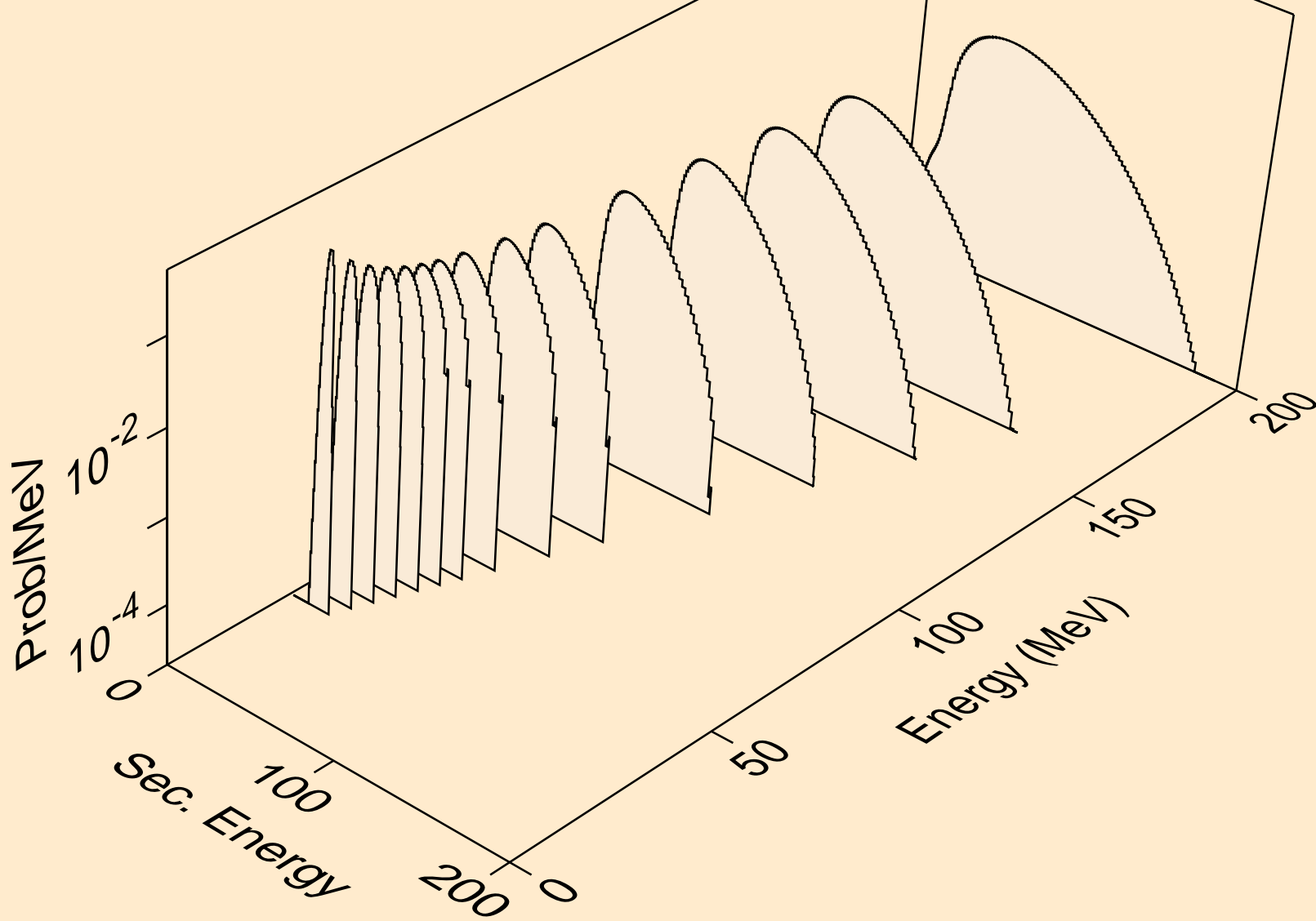
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
tritons from (n,t)



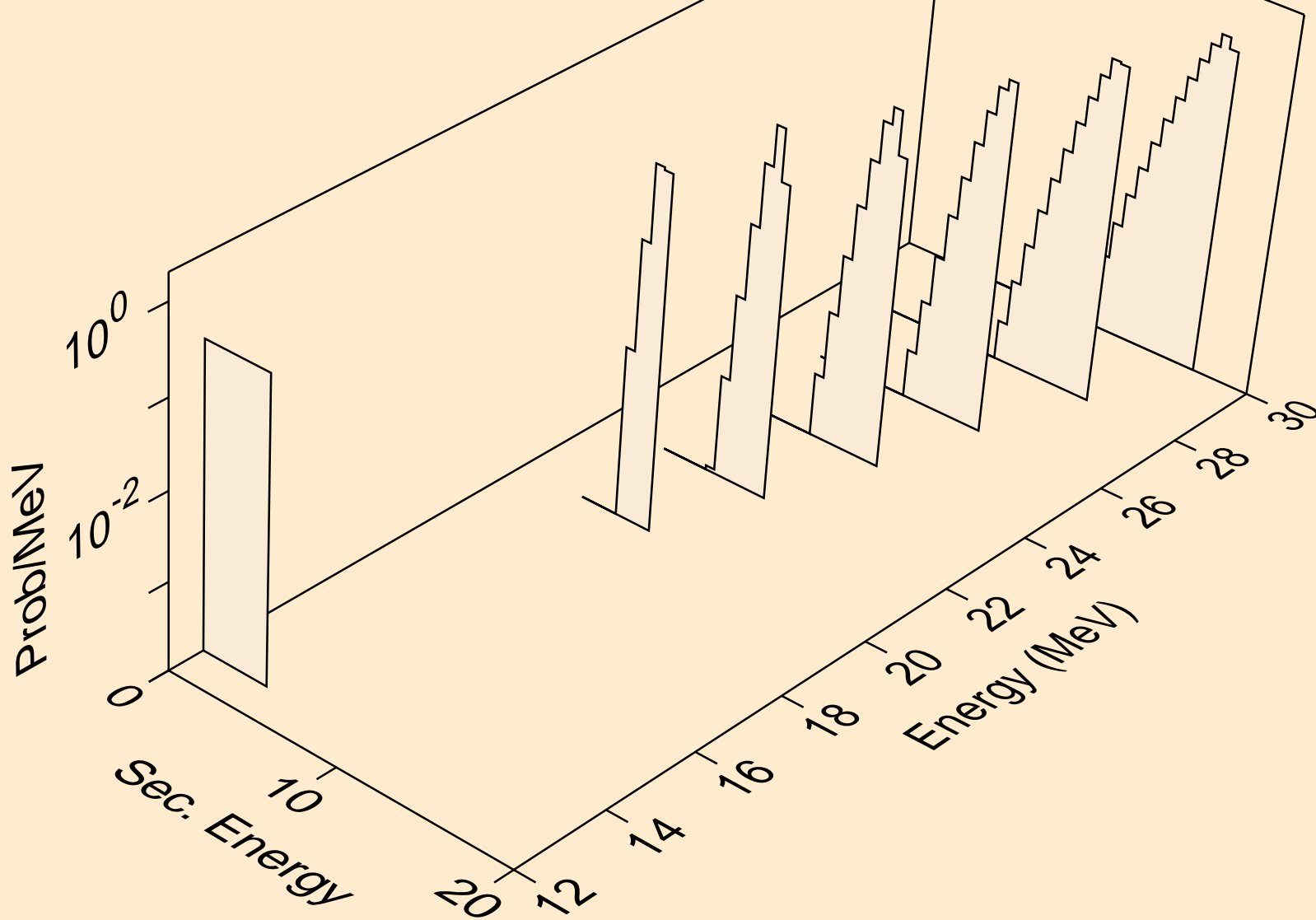
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
tritons from (n,pt)



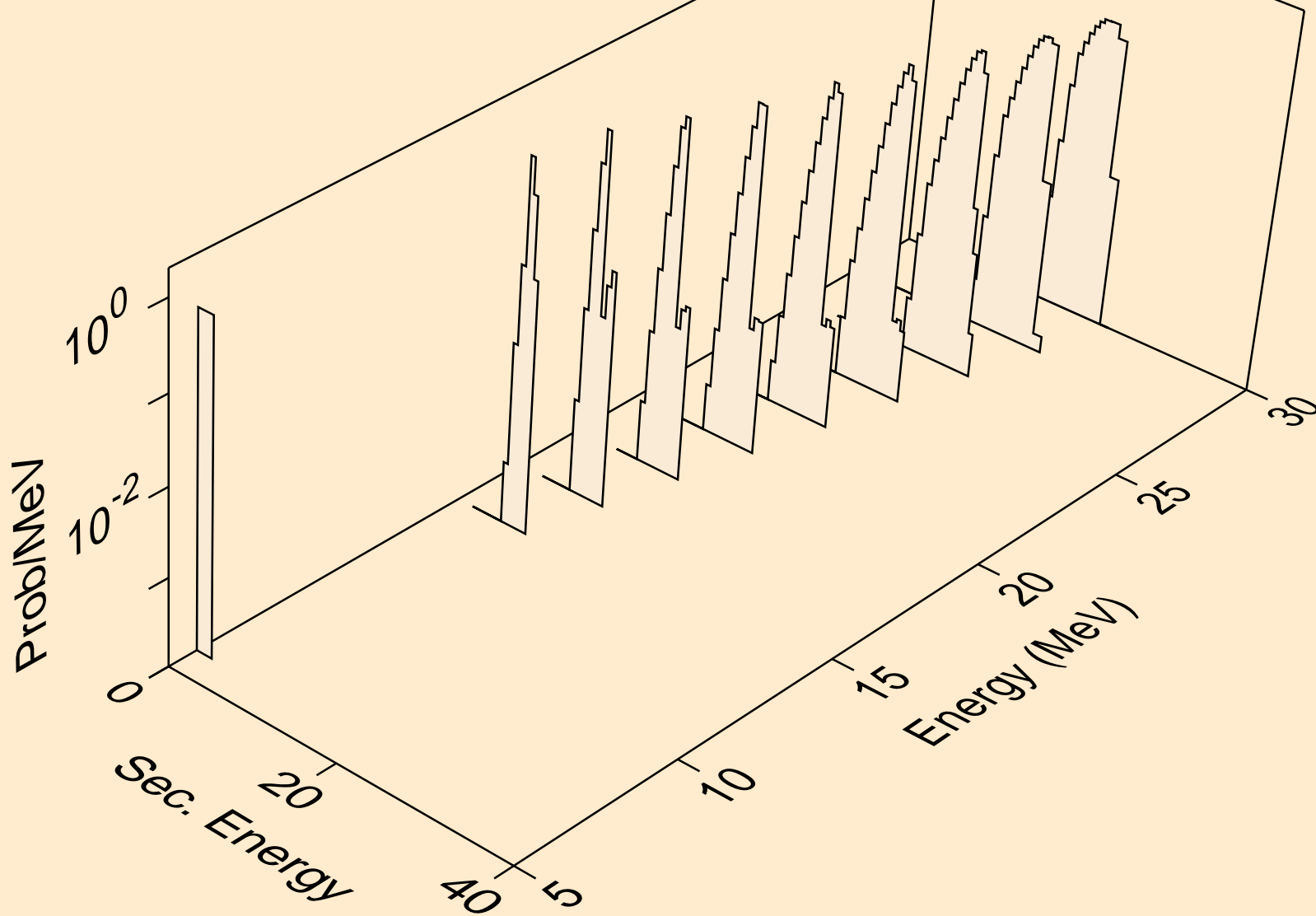
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
he3s from (n,x)



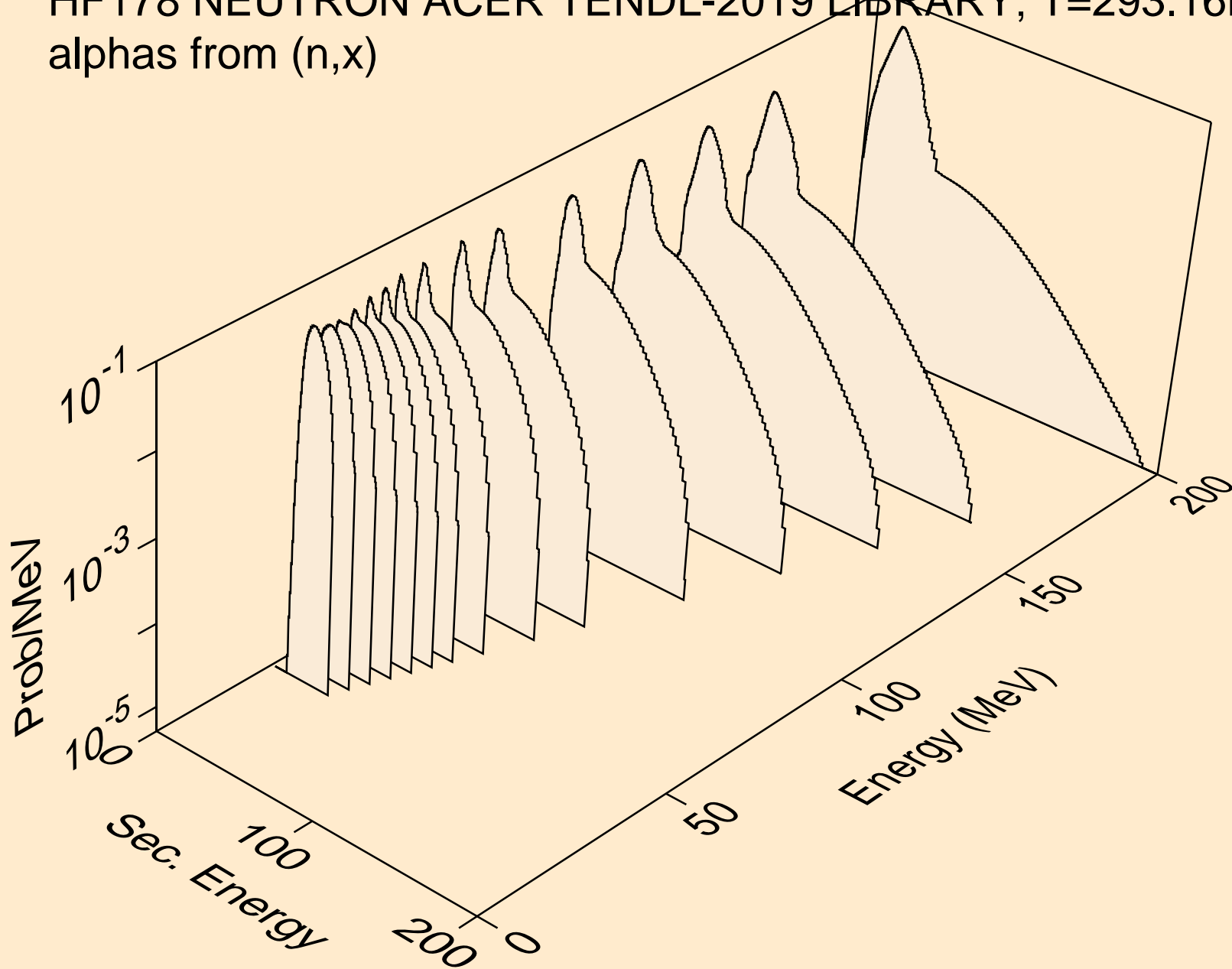
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
he3s from (n,n*)he3



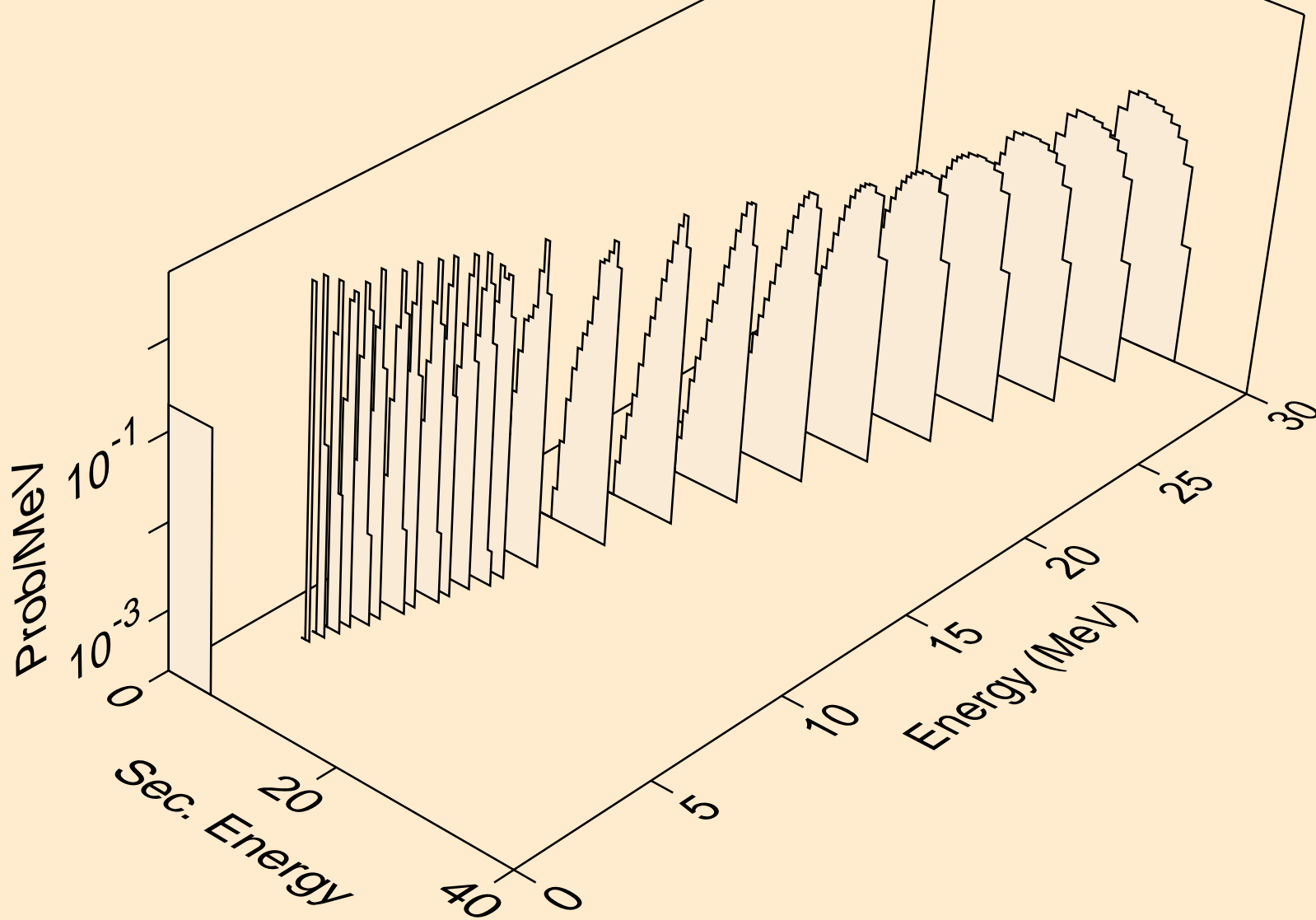
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
he3s from (n,he3)



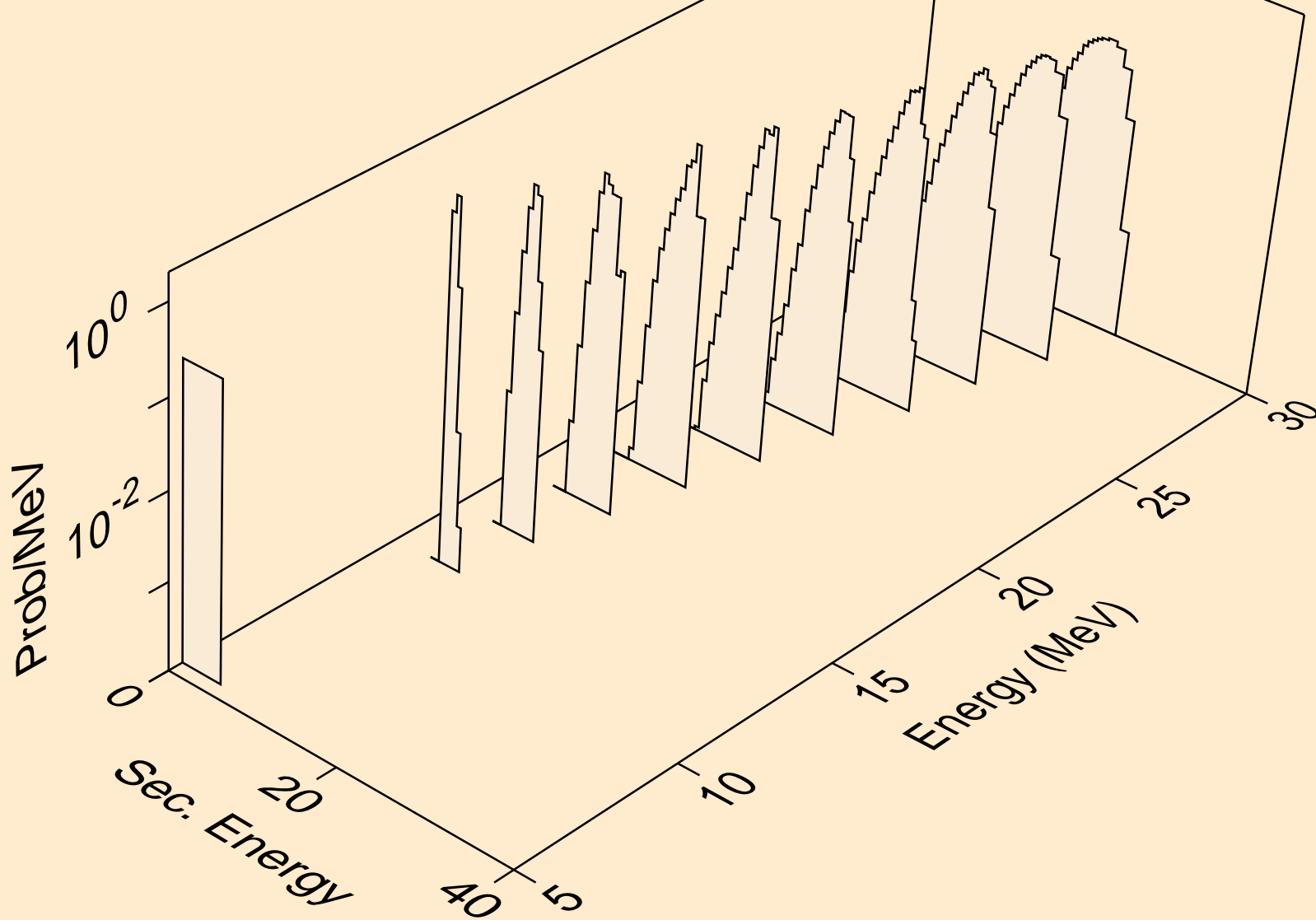
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,x)



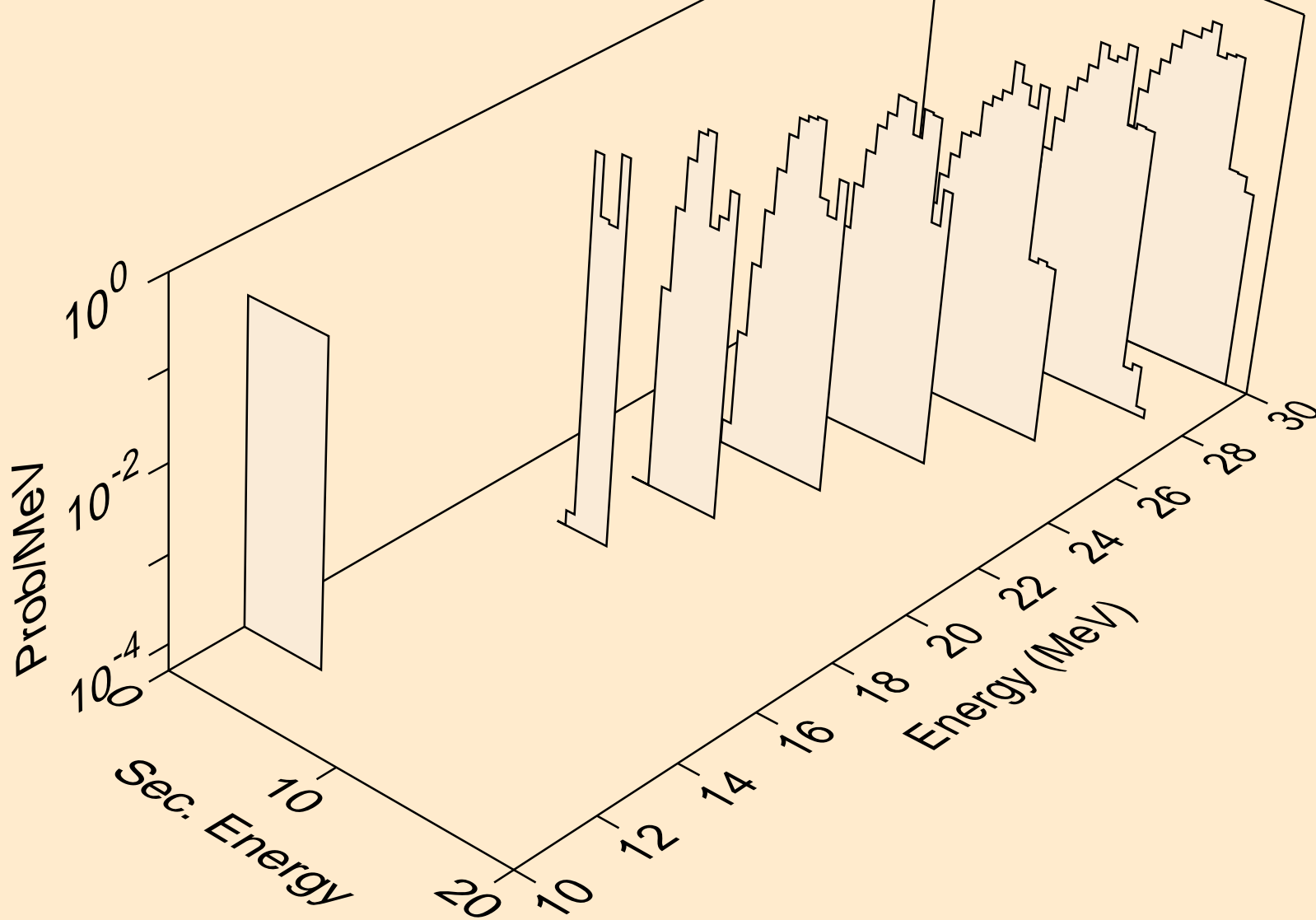
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,n*)a



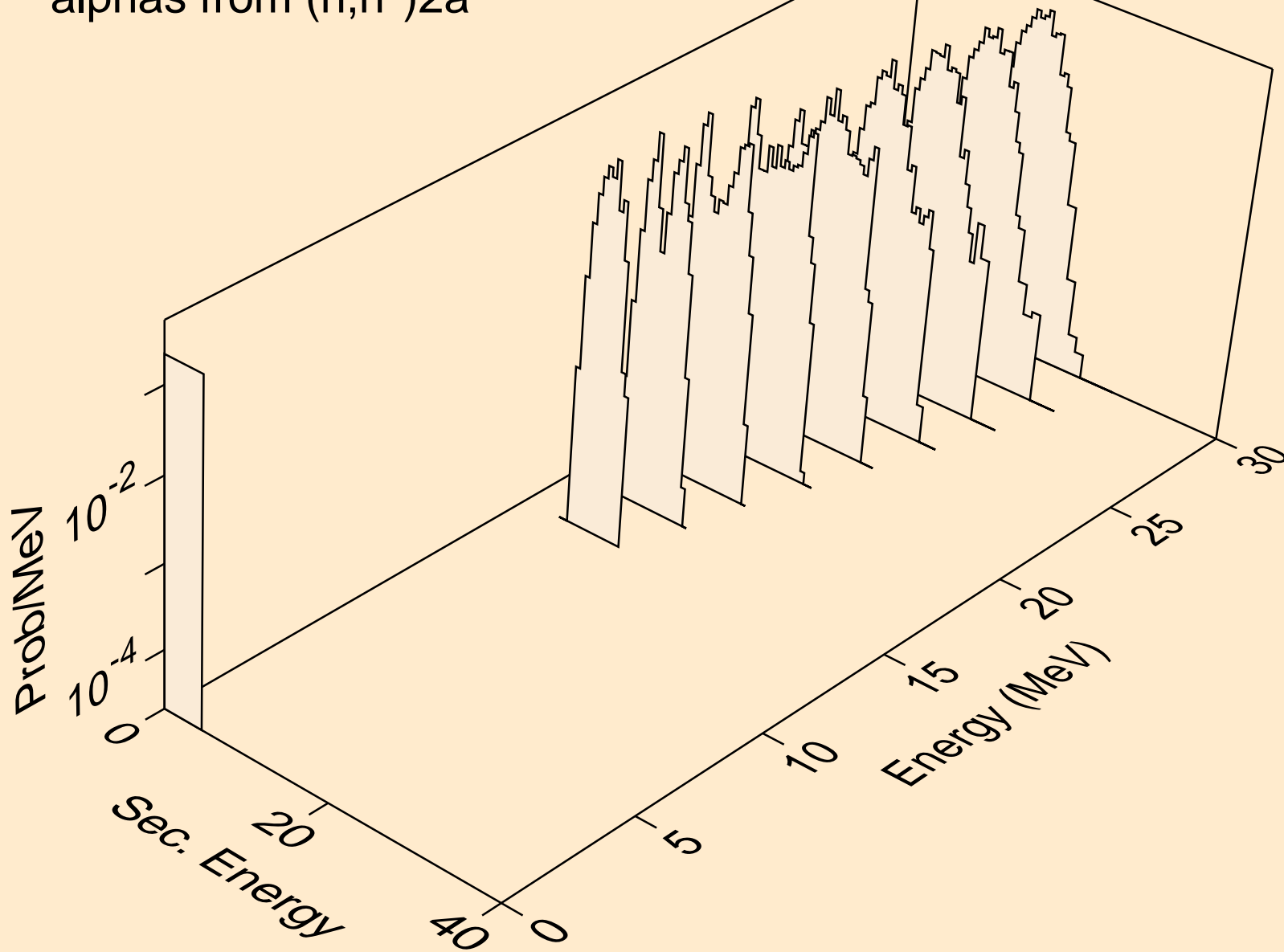
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,2n)a



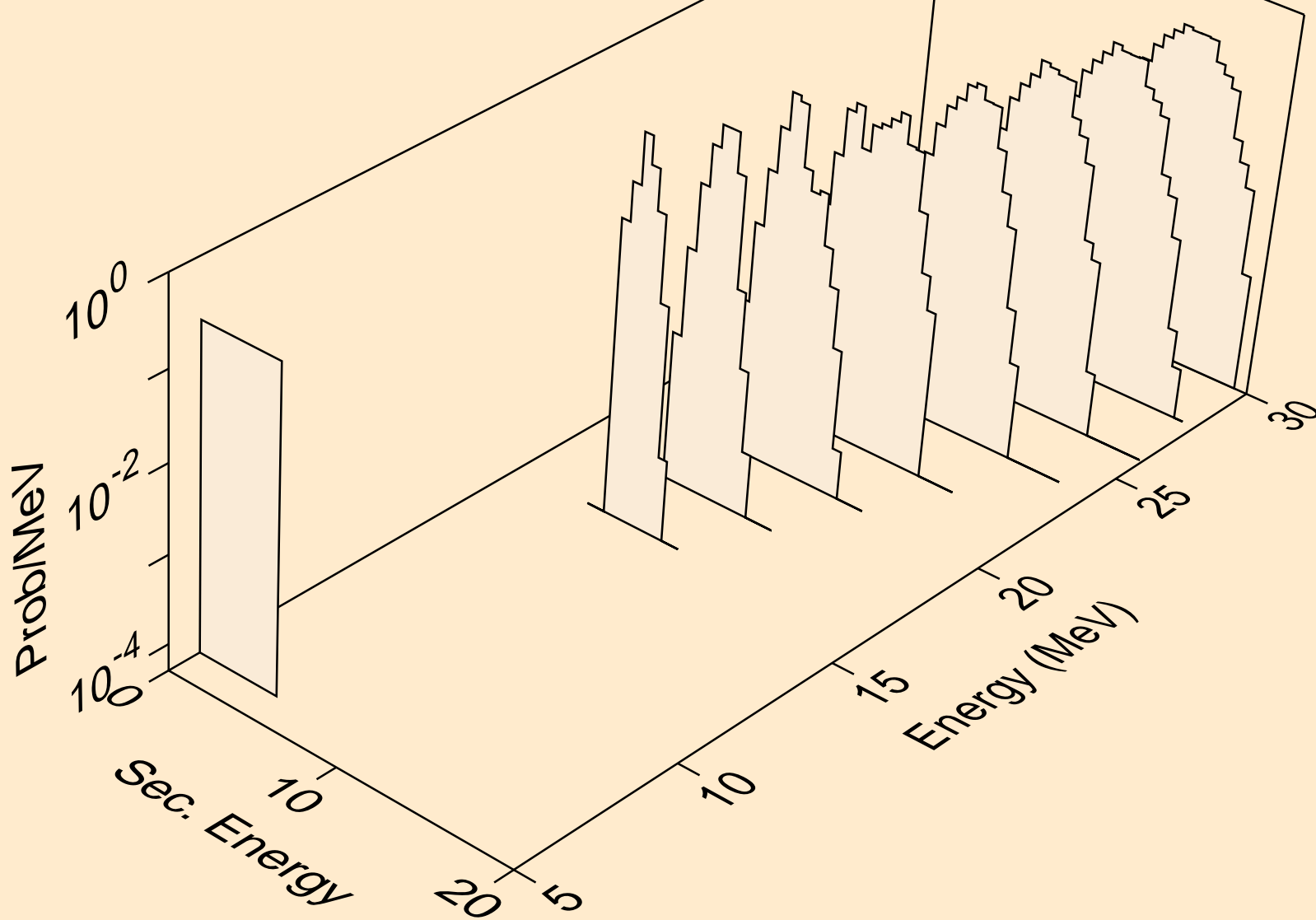
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,3n)a



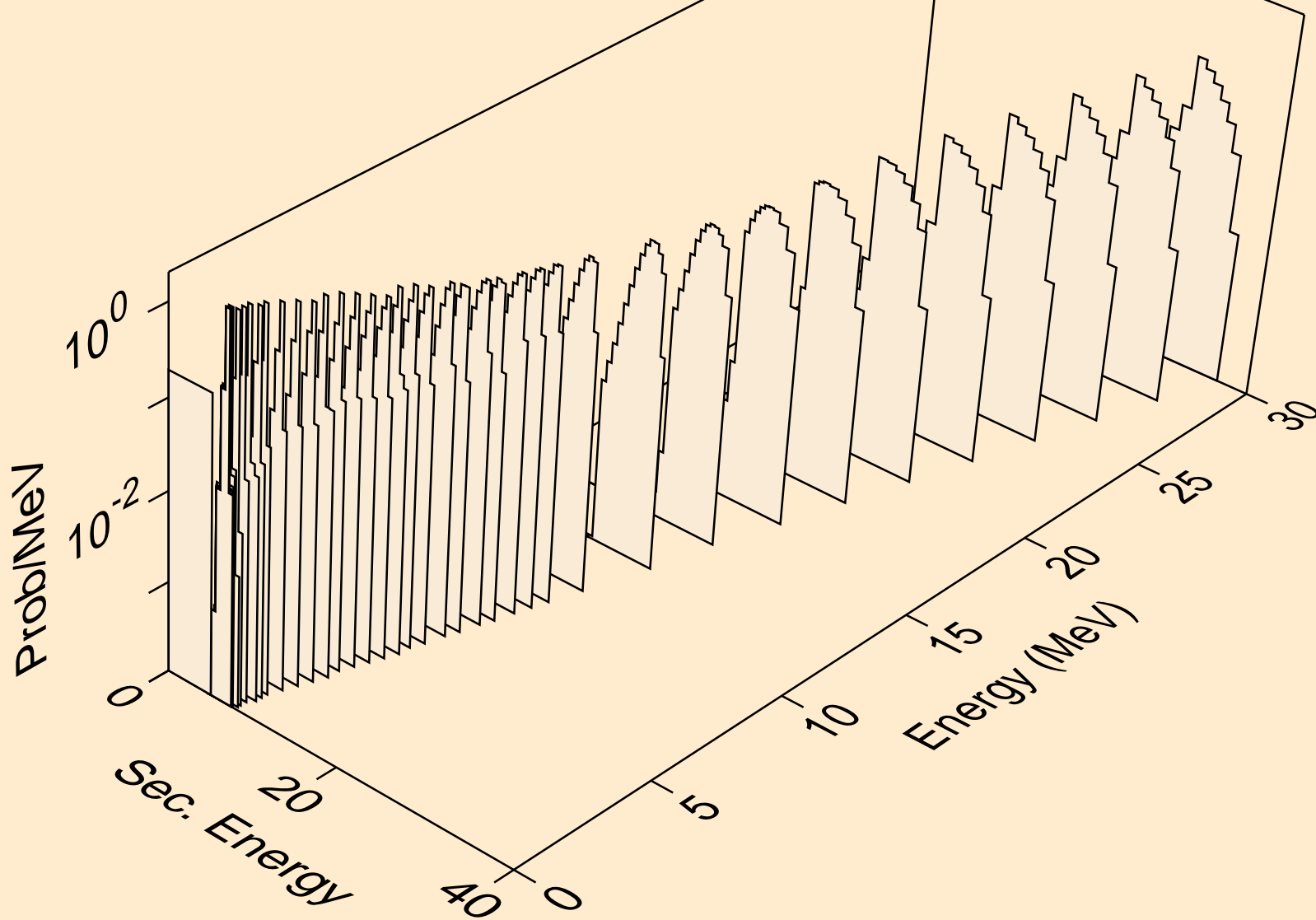
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,n*)2a



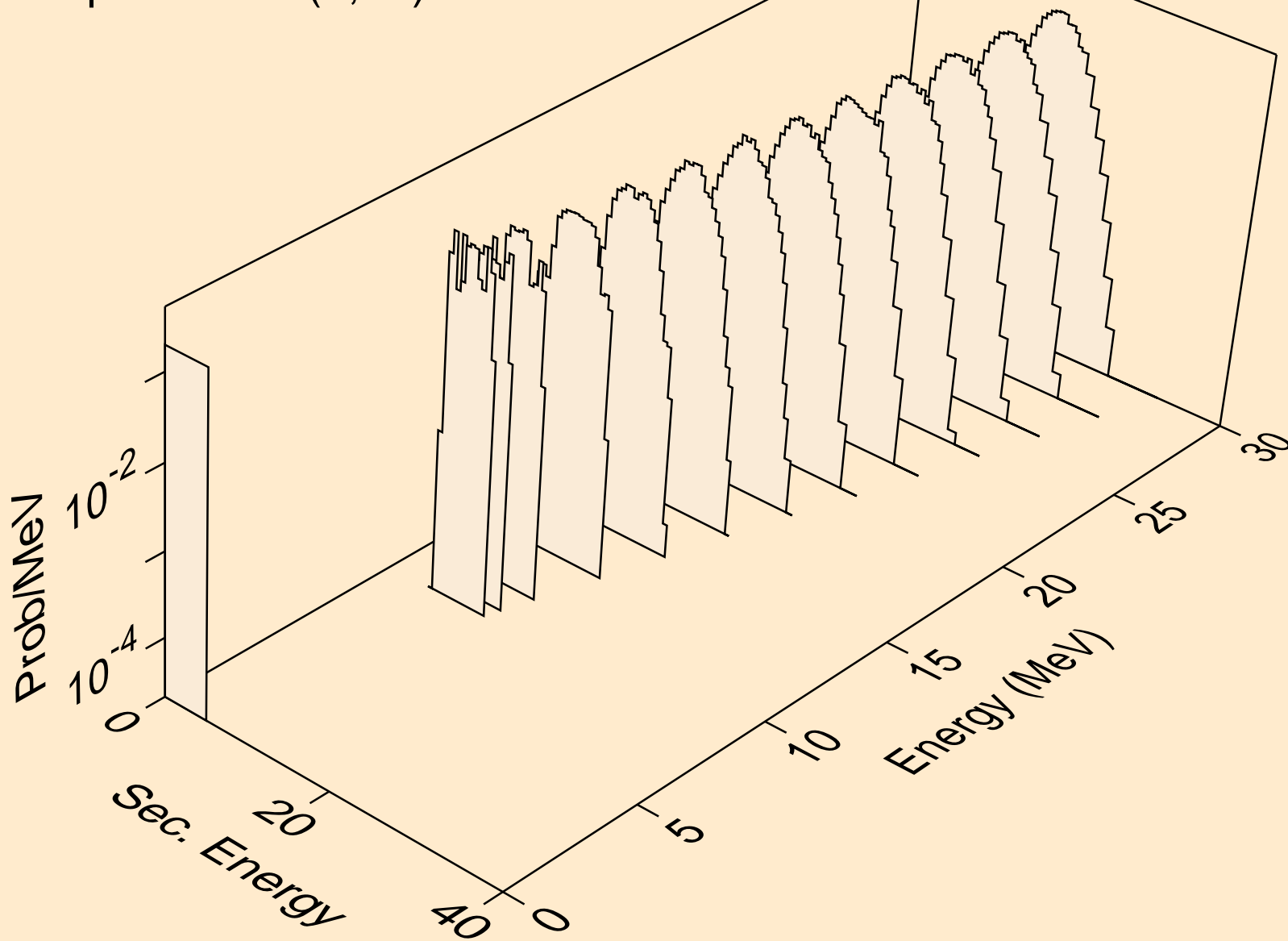
HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,npa)



HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,a)



HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,2a)



HF178 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,pa)

