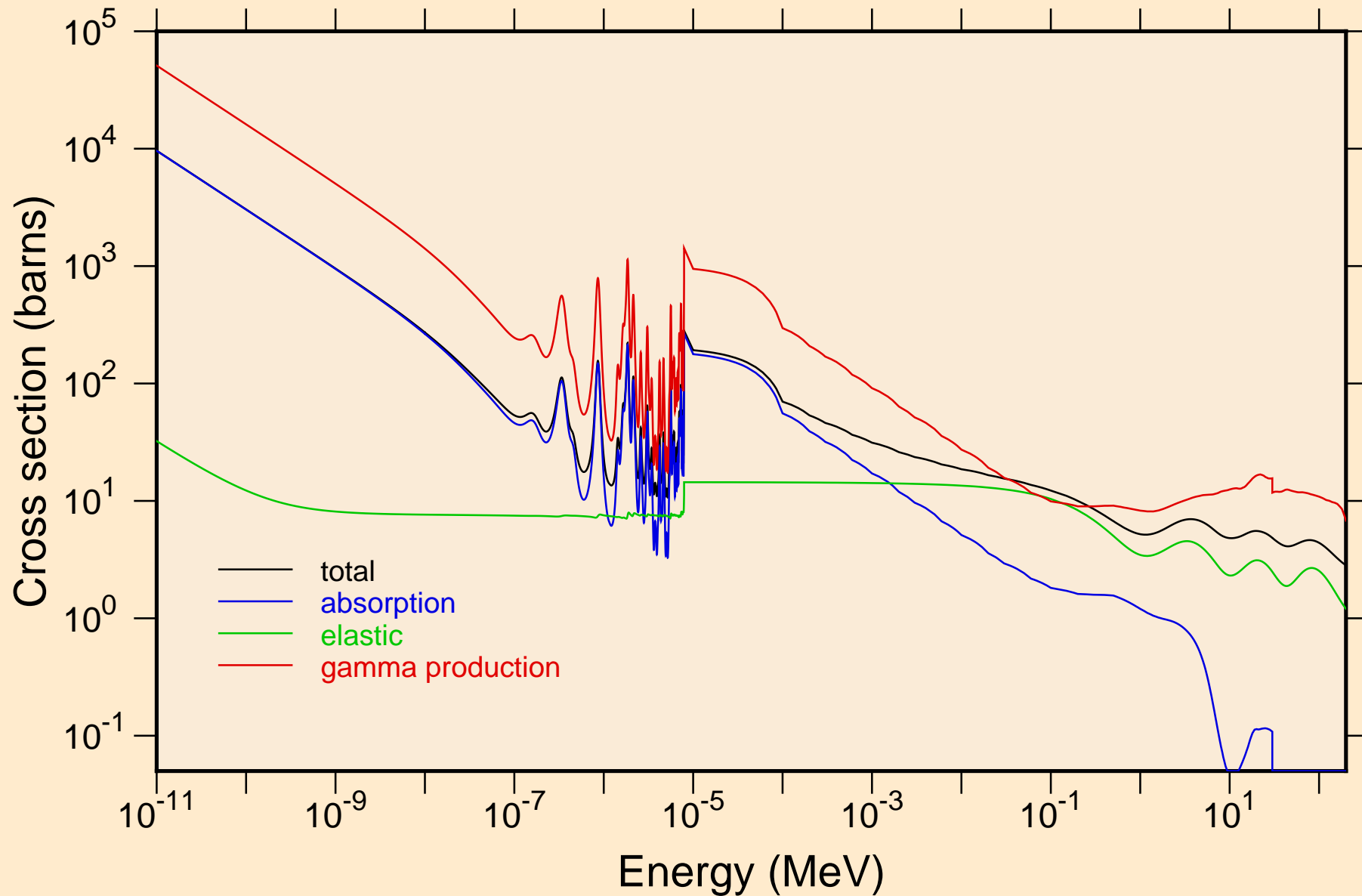
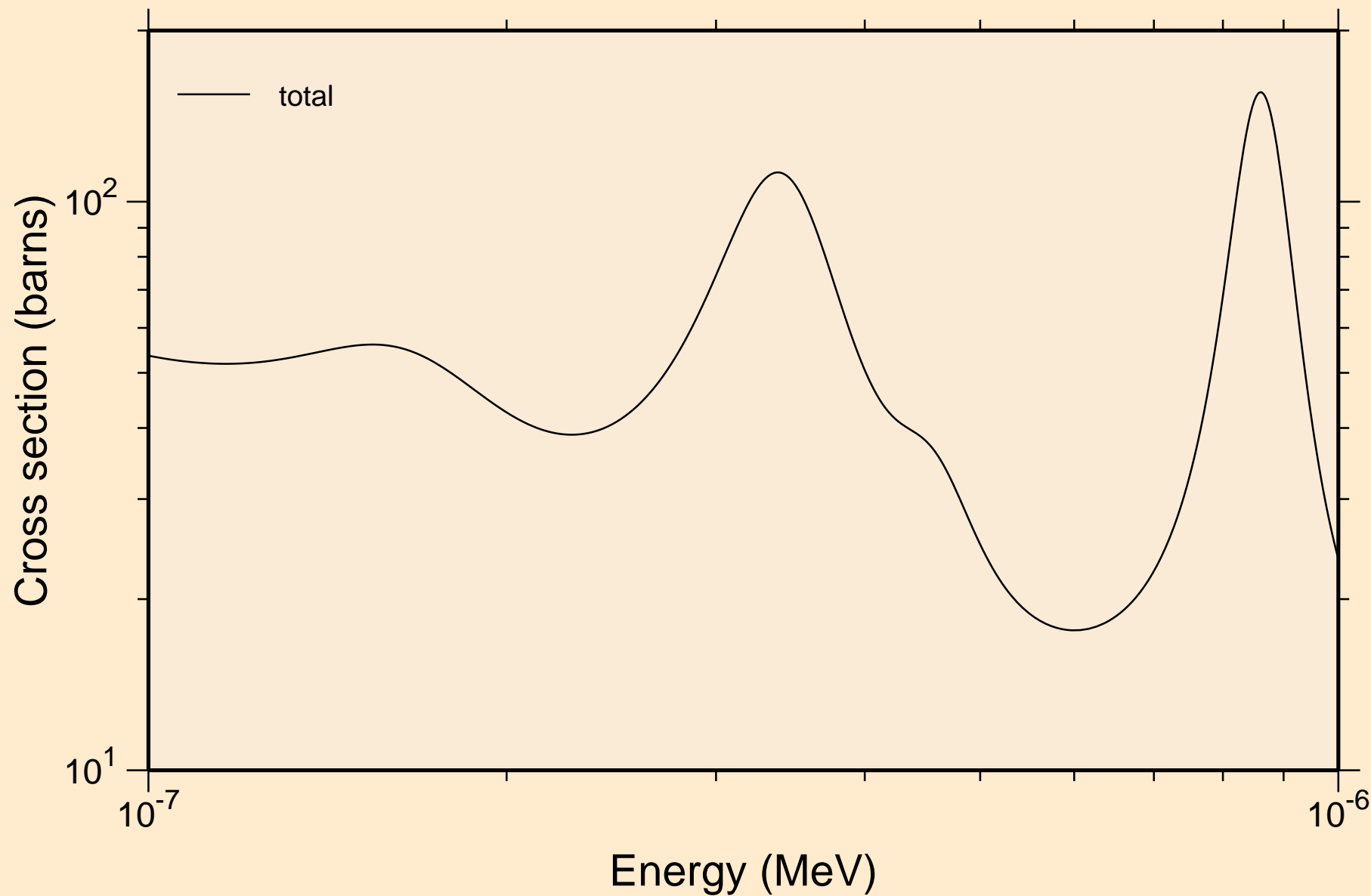


HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

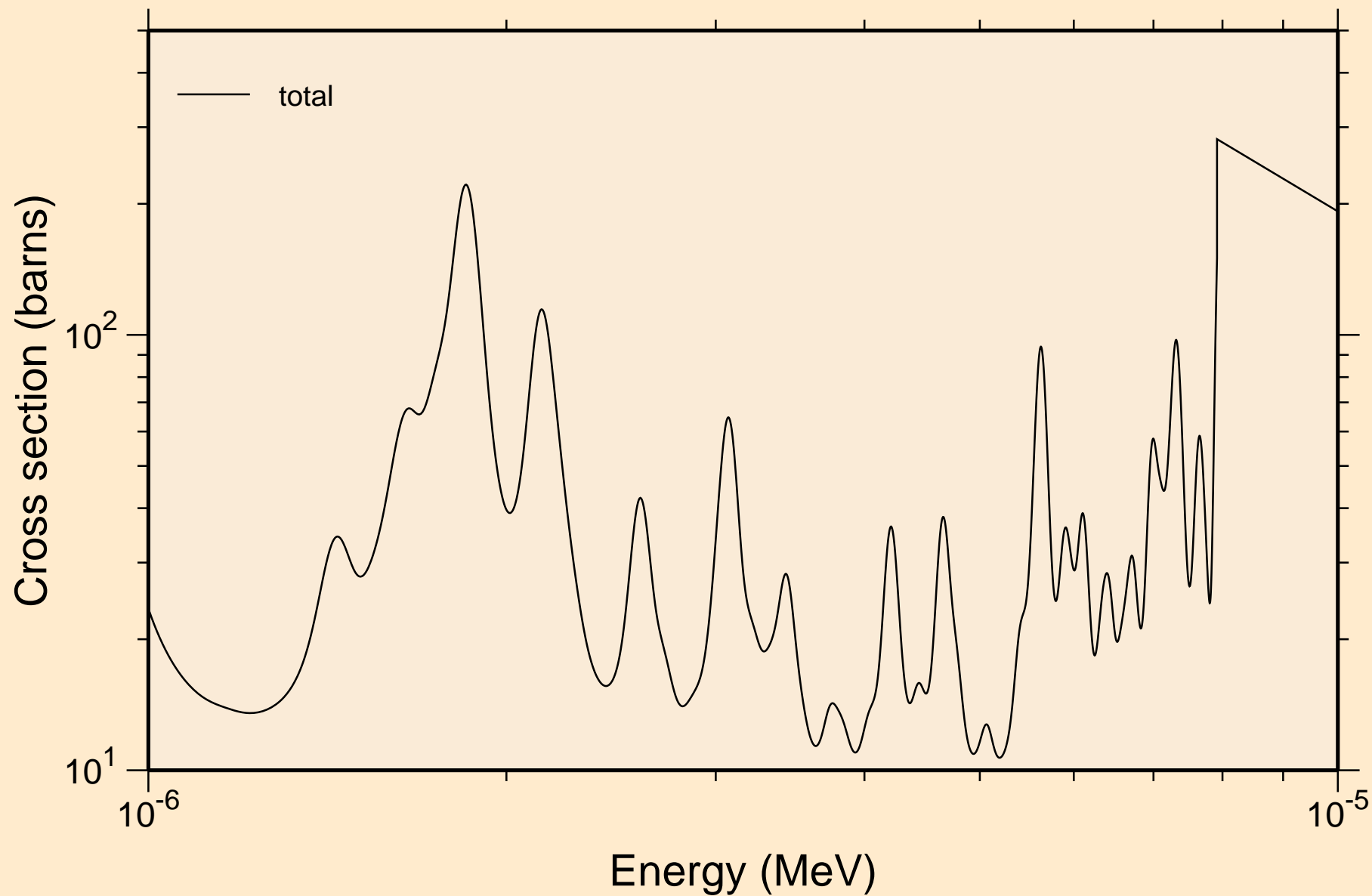
Principal cross sections



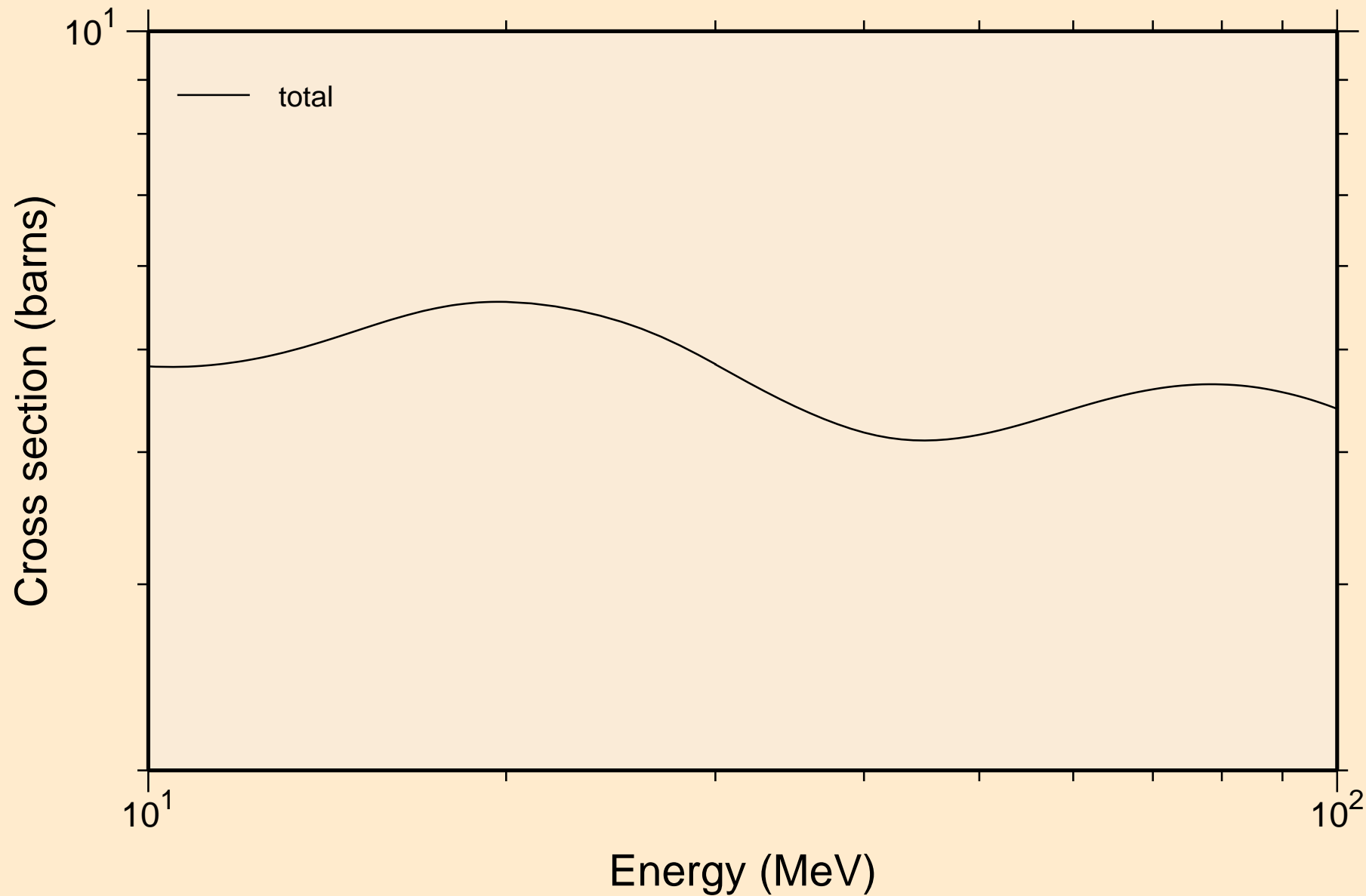
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resonance total cross section



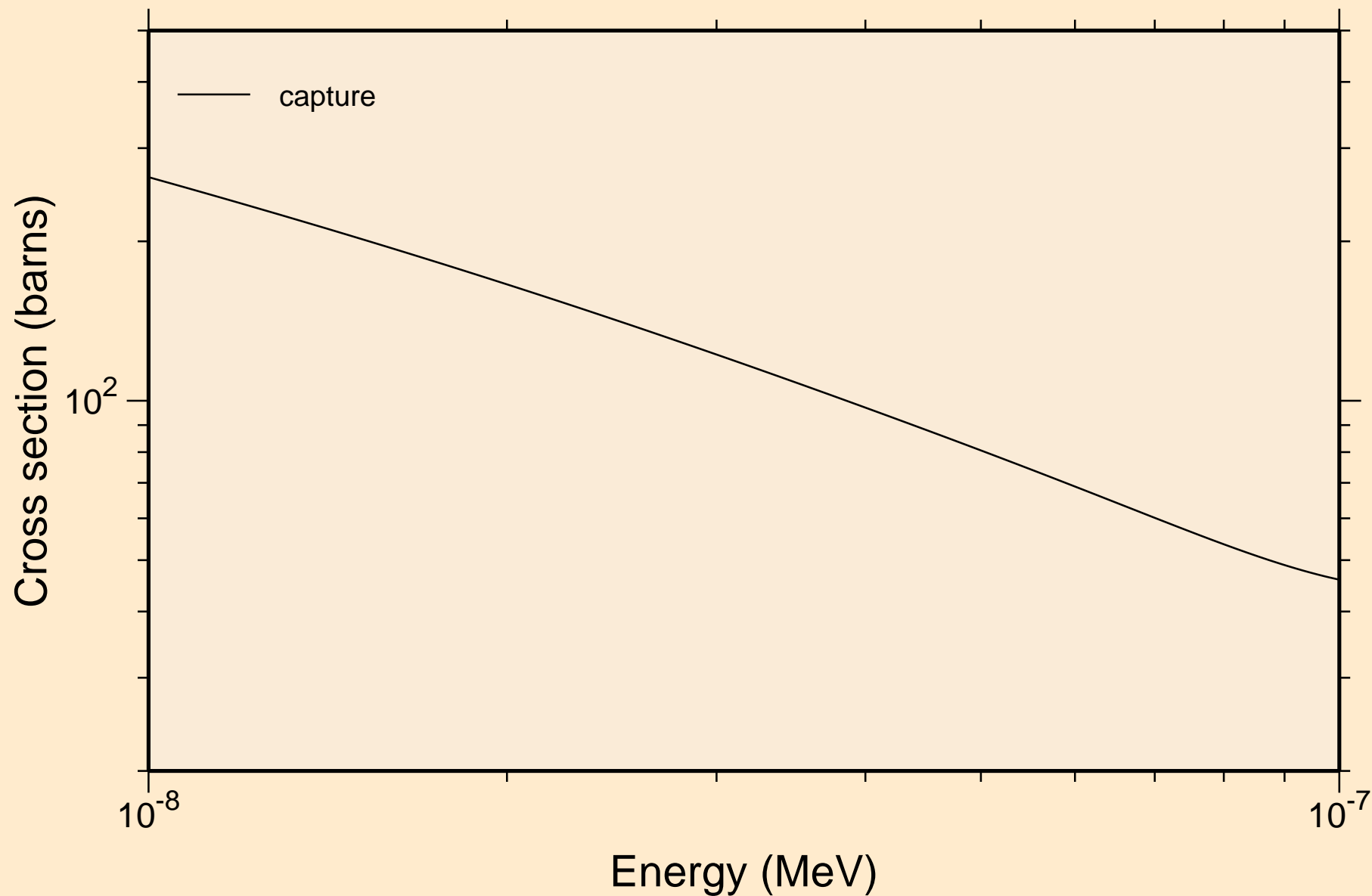
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resonance total cross section



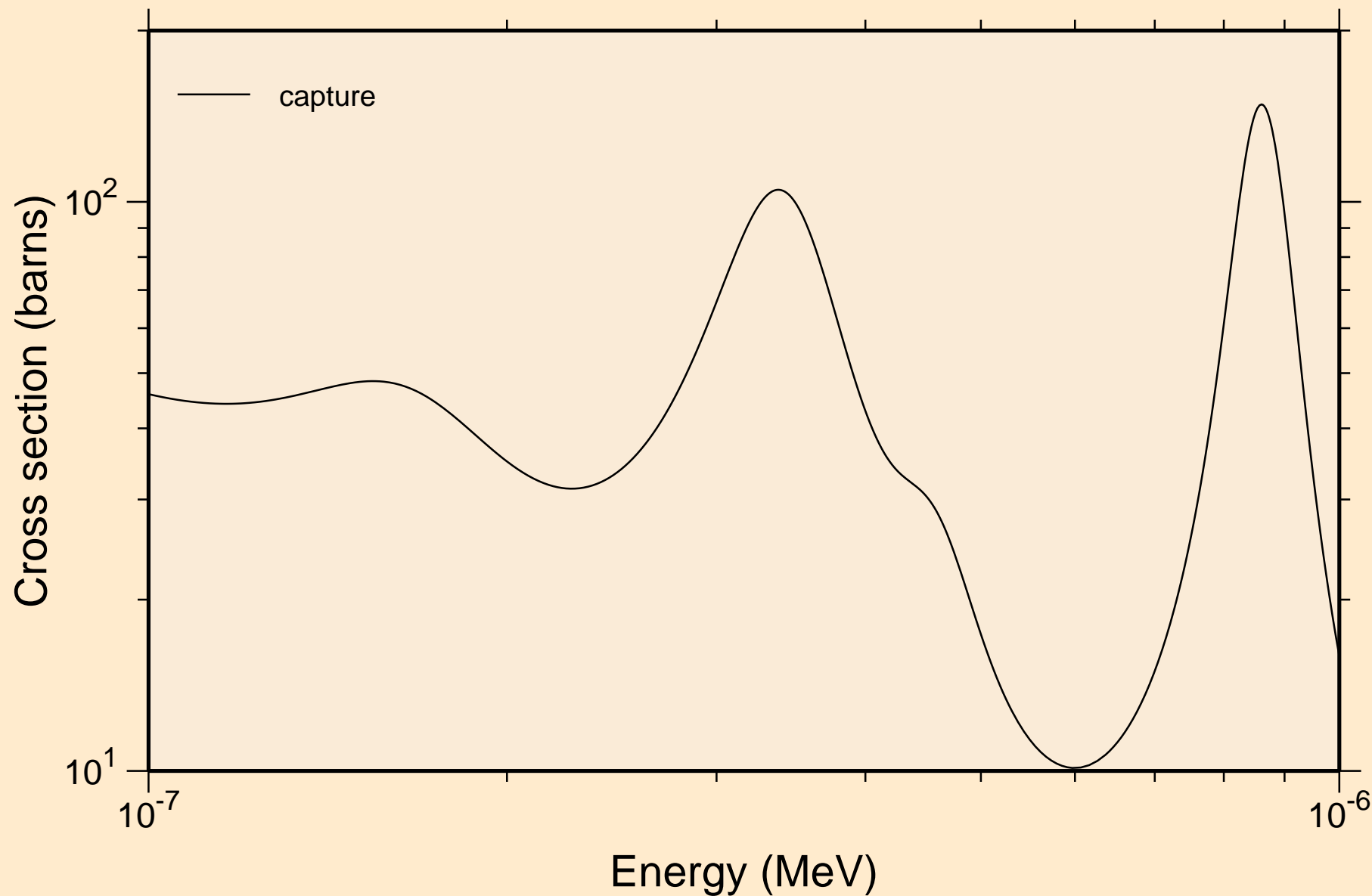
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resonance total cross section



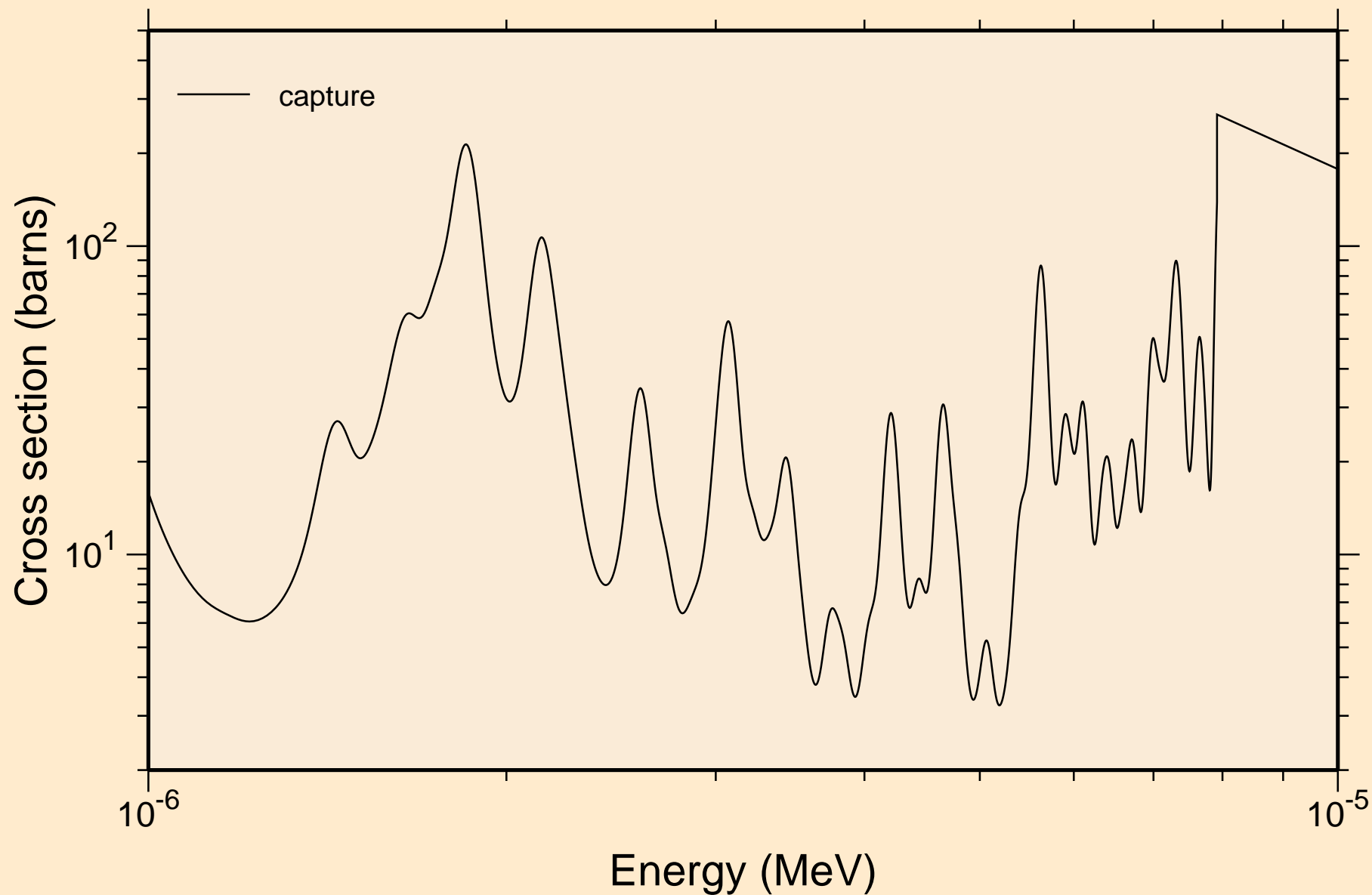
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
resonance absorption cross sections



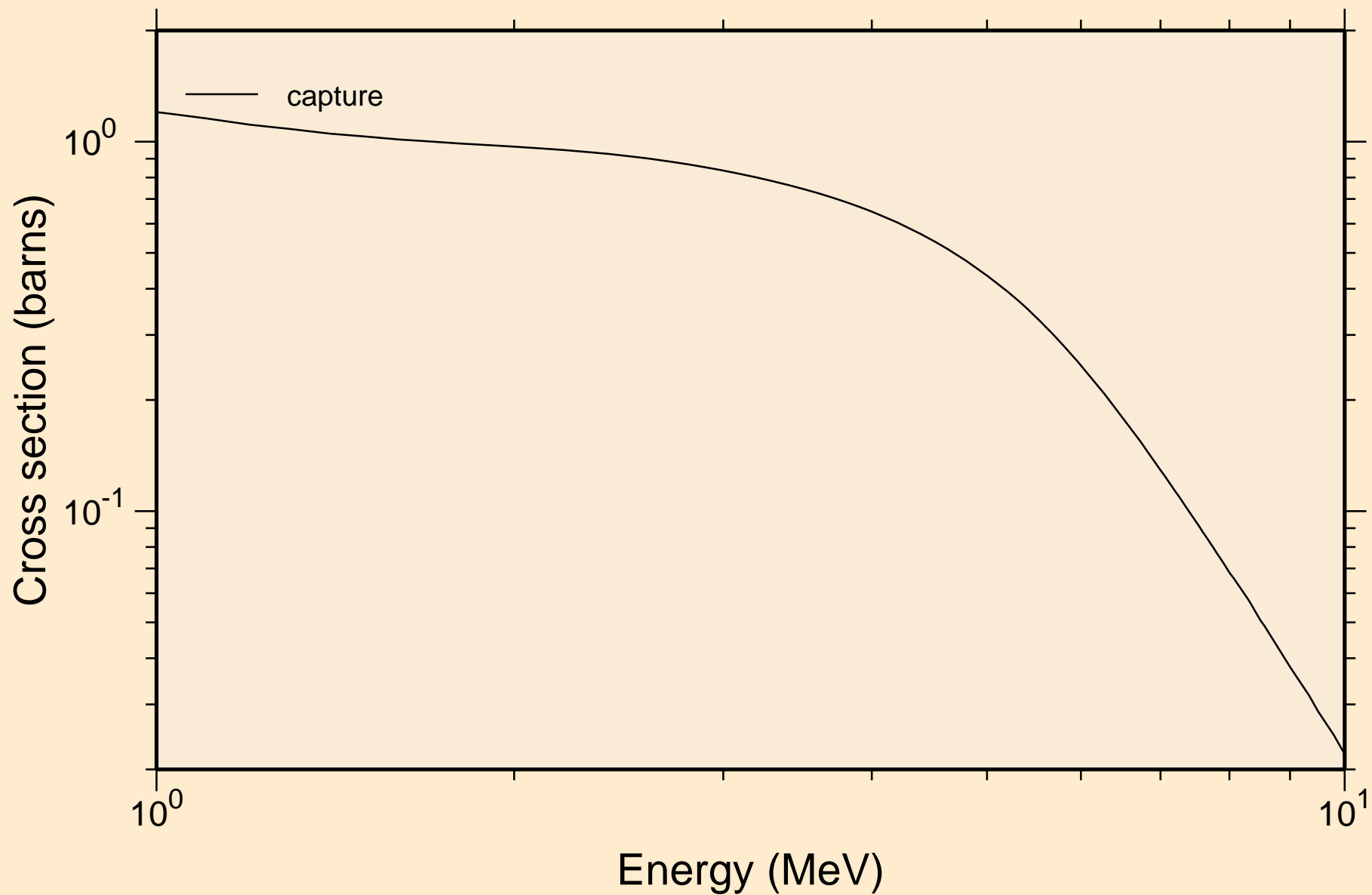
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resonance absorption cross sections



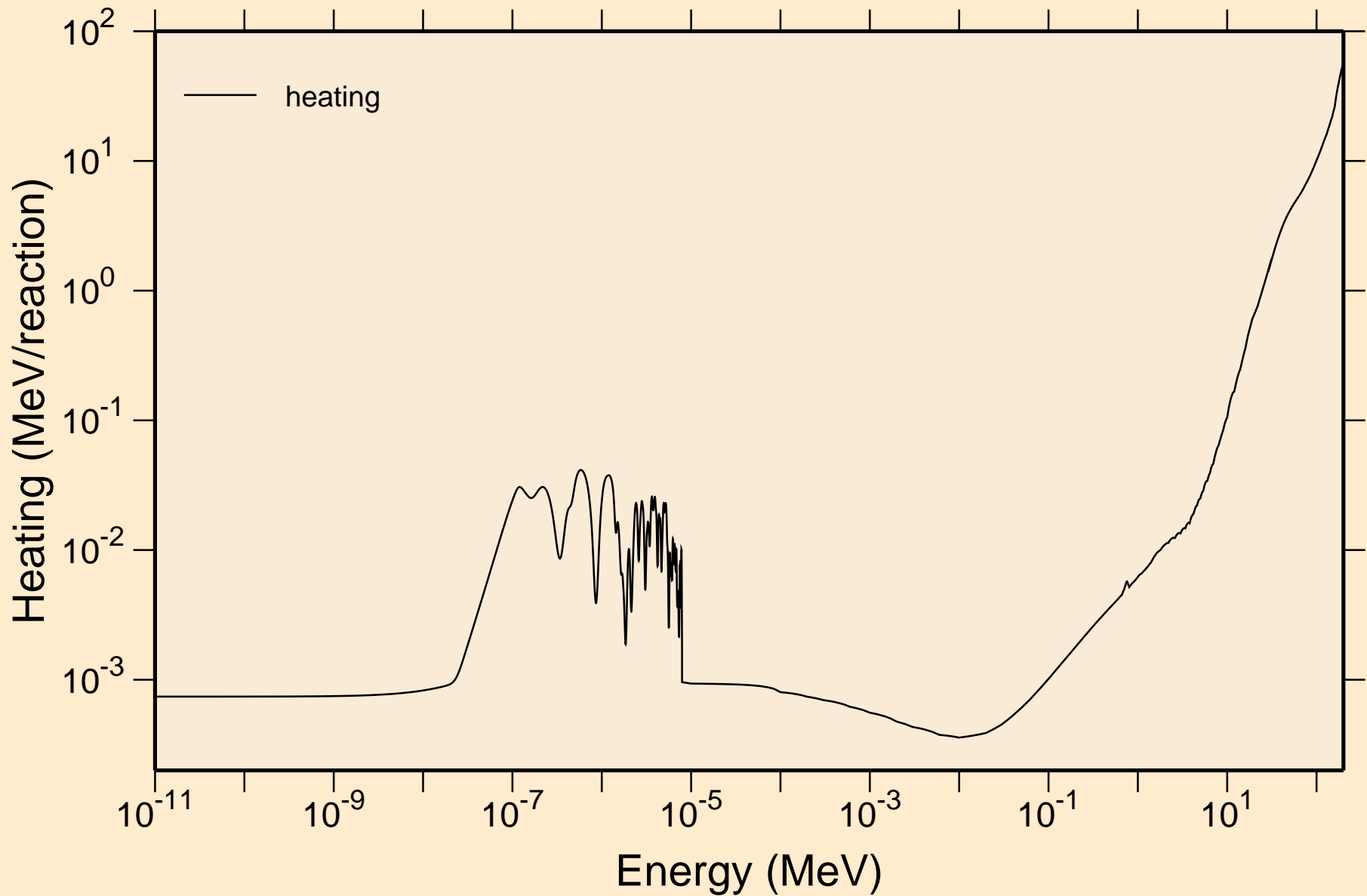
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
resonance absorption cross sections



HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
resonance absorption cross sections

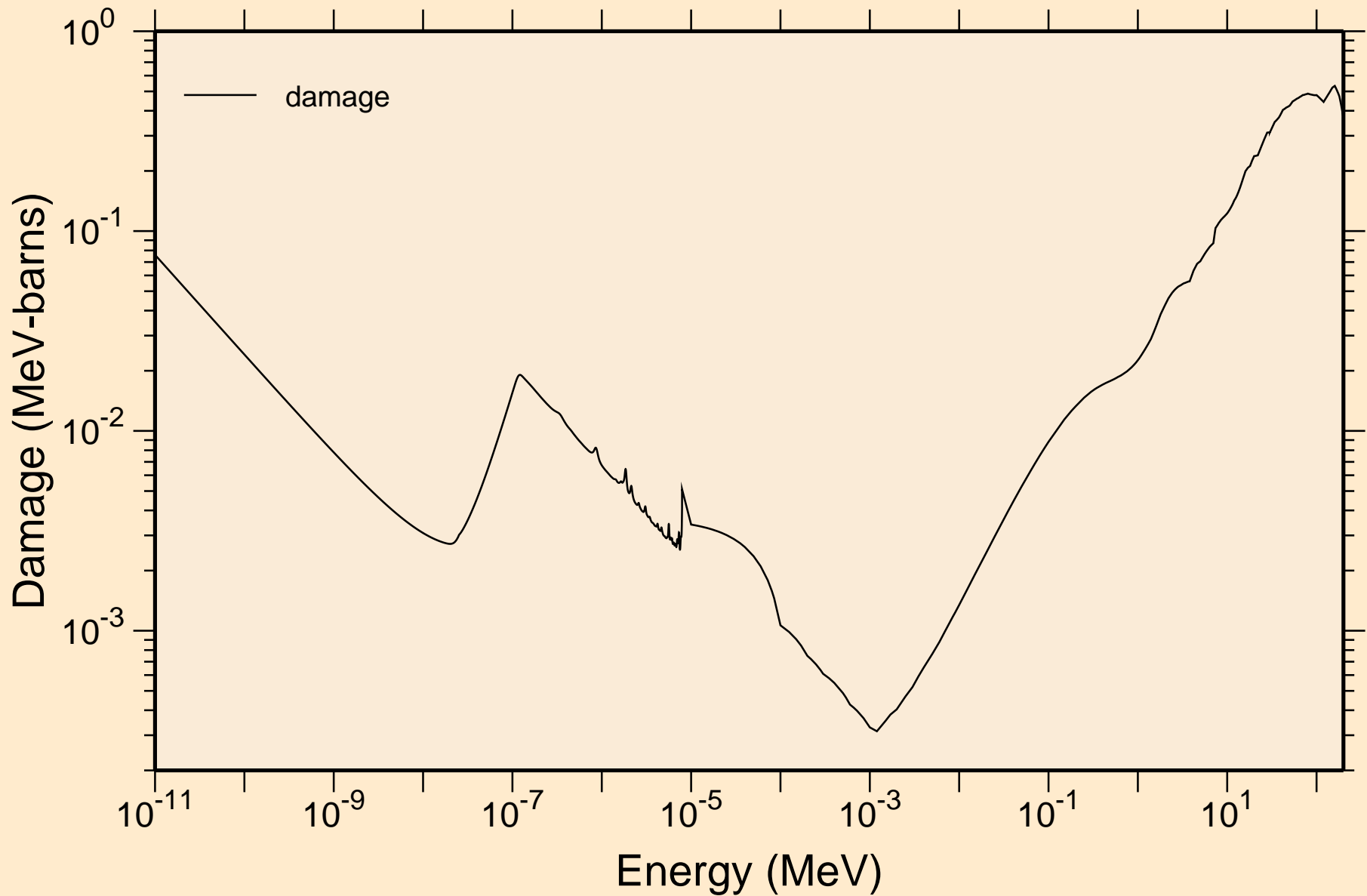


HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Heating



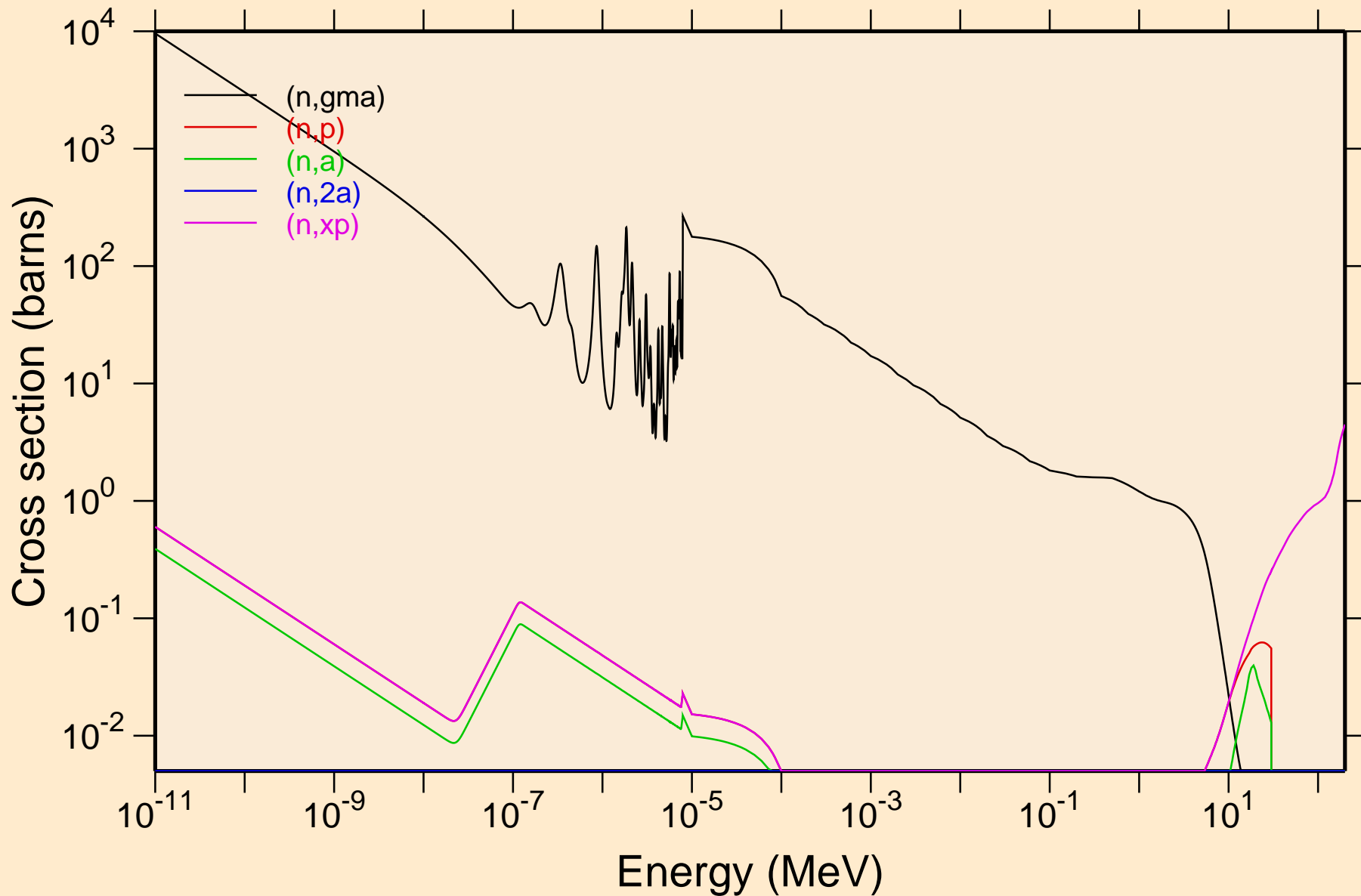
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Damage

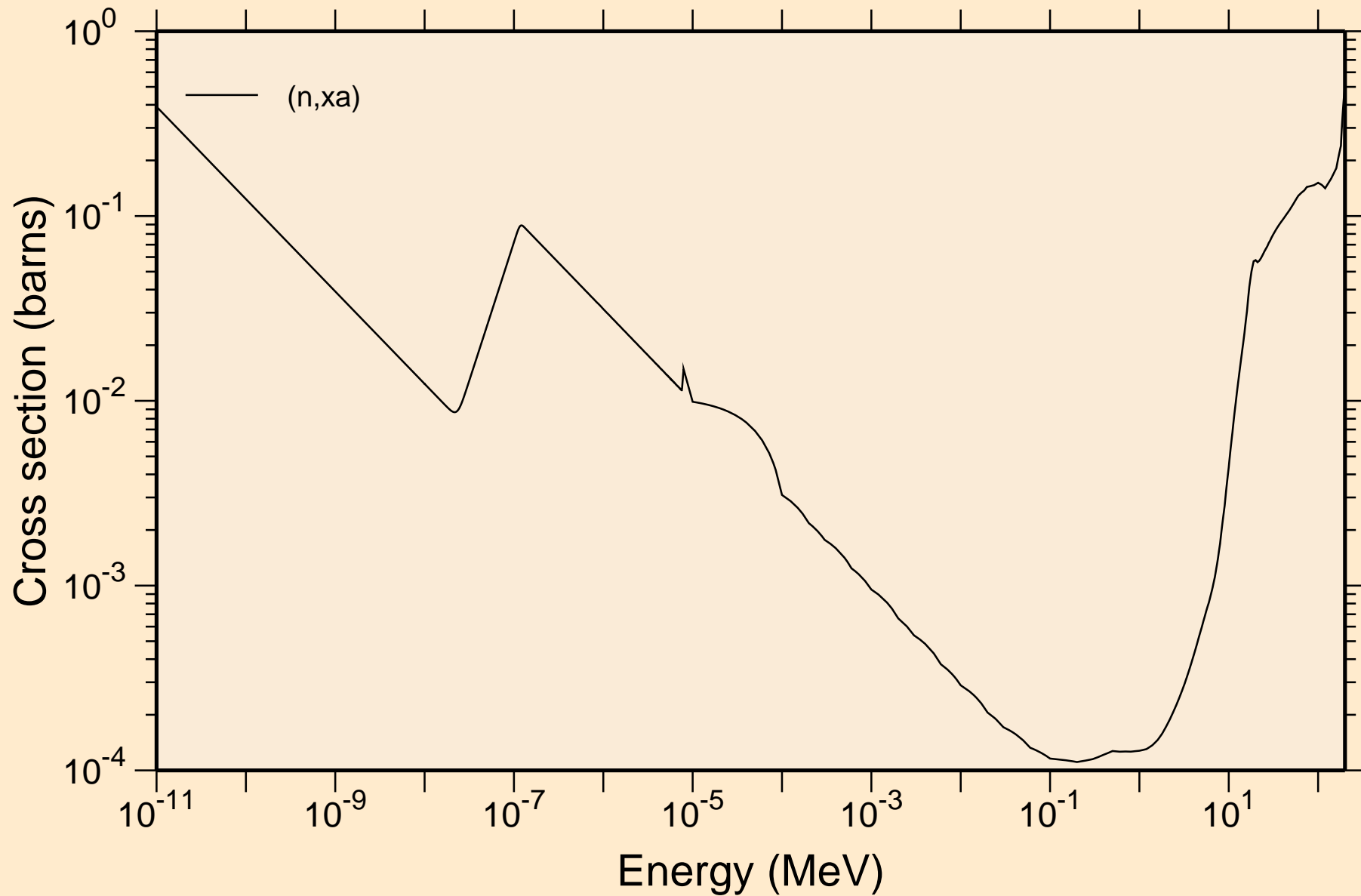


HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

Non-threshold reactions

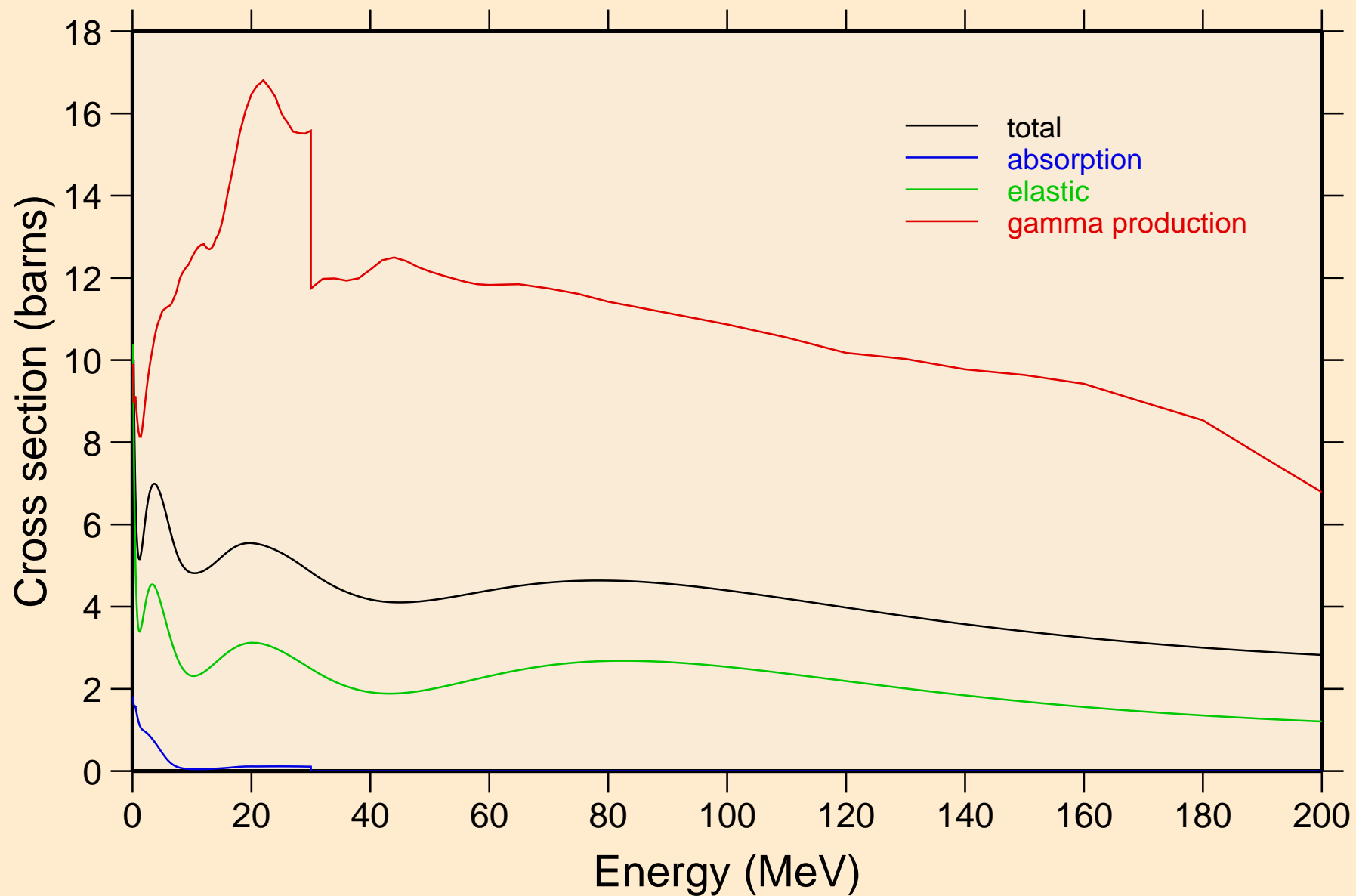


HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Non-threshold reactions

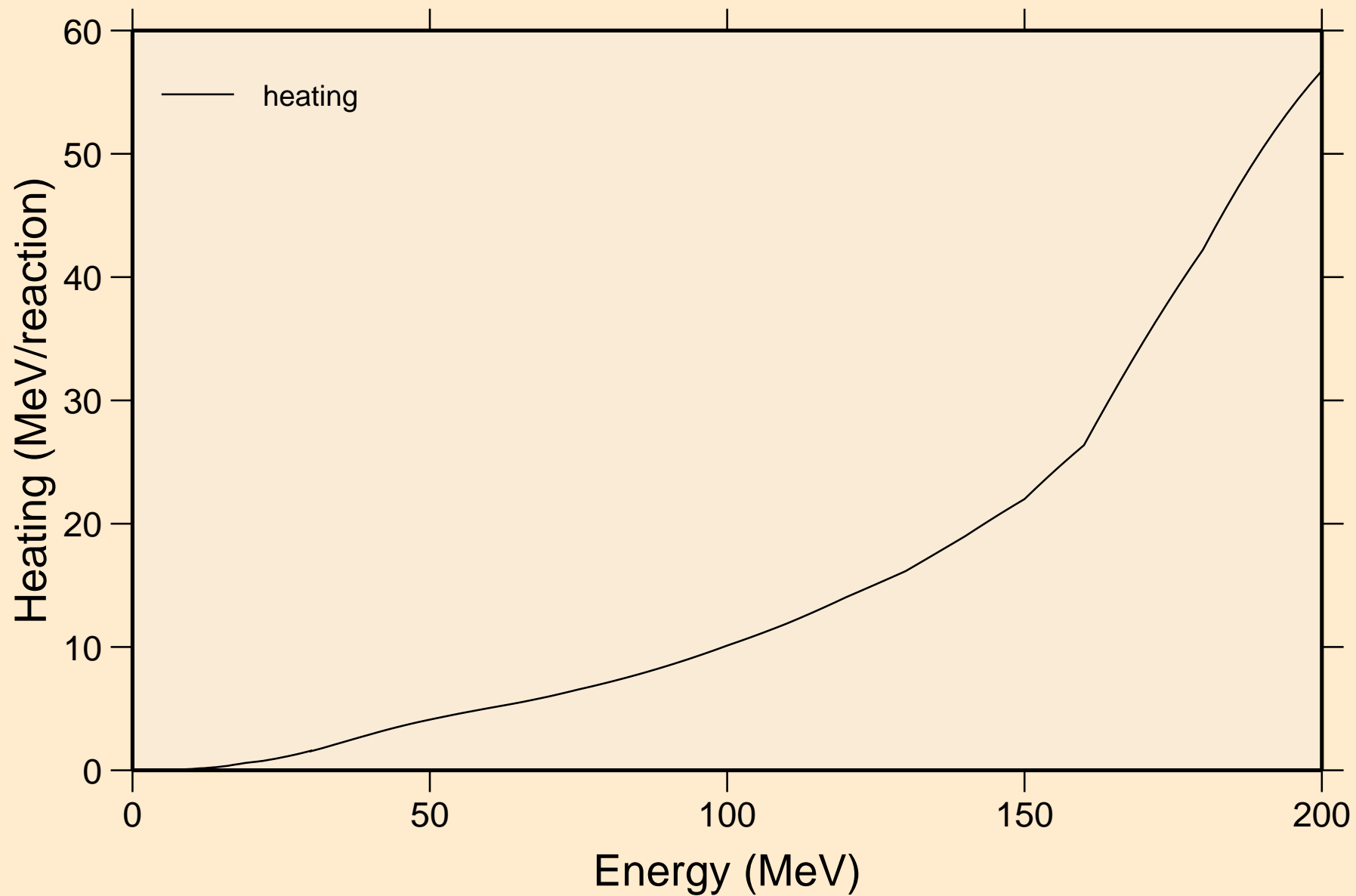


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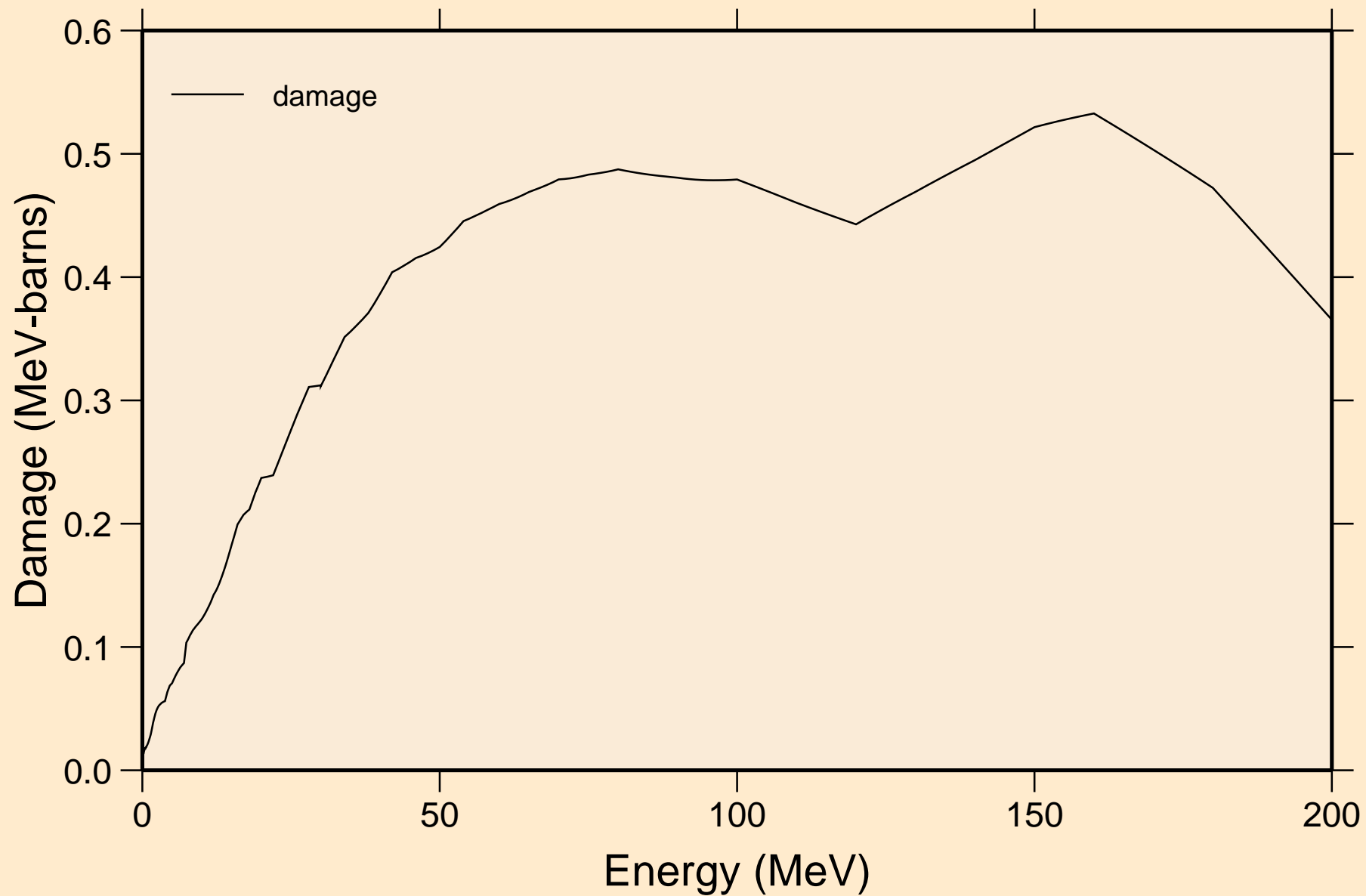
Principal cross sections



HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Heating

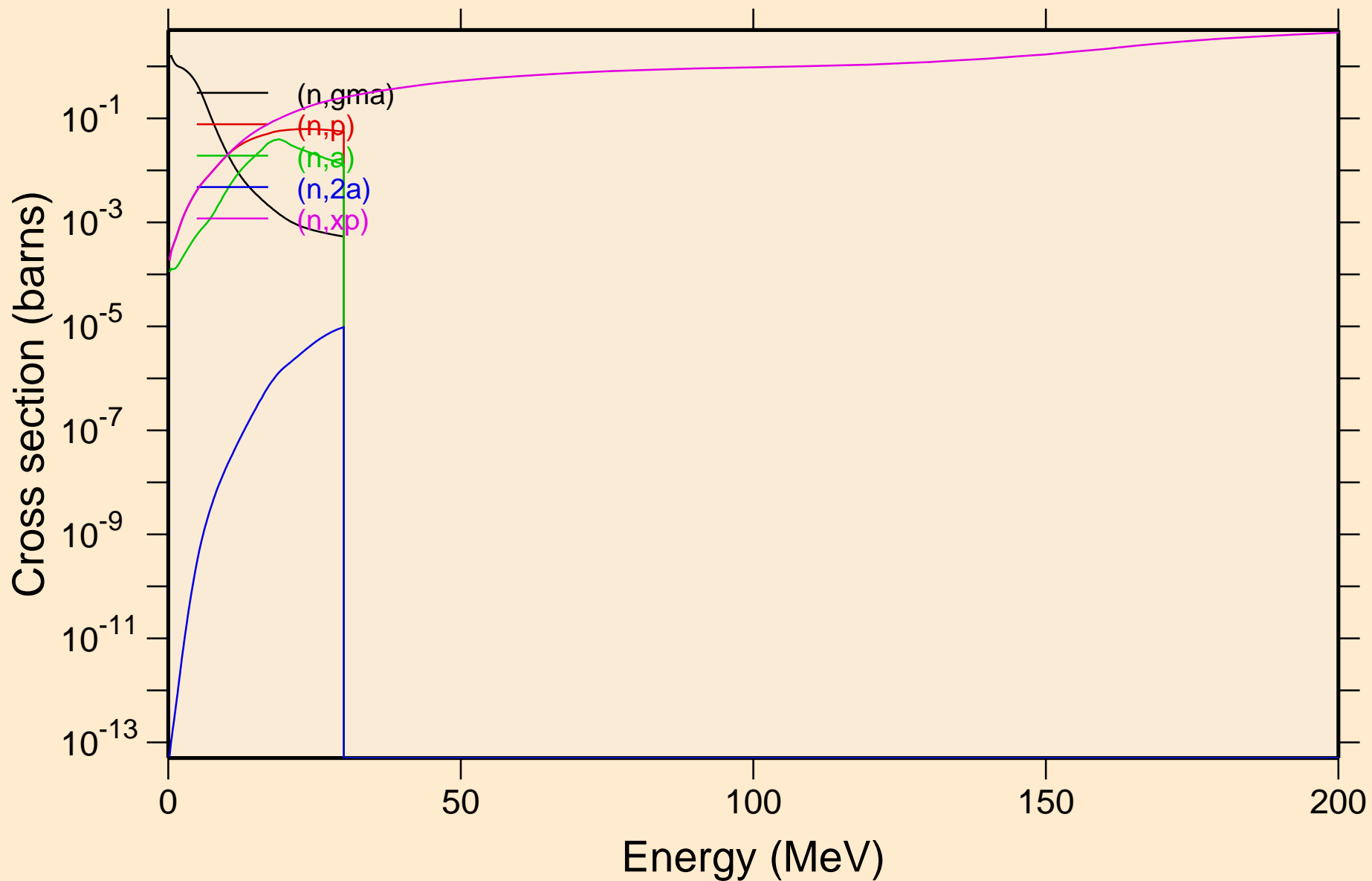


HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K Damage

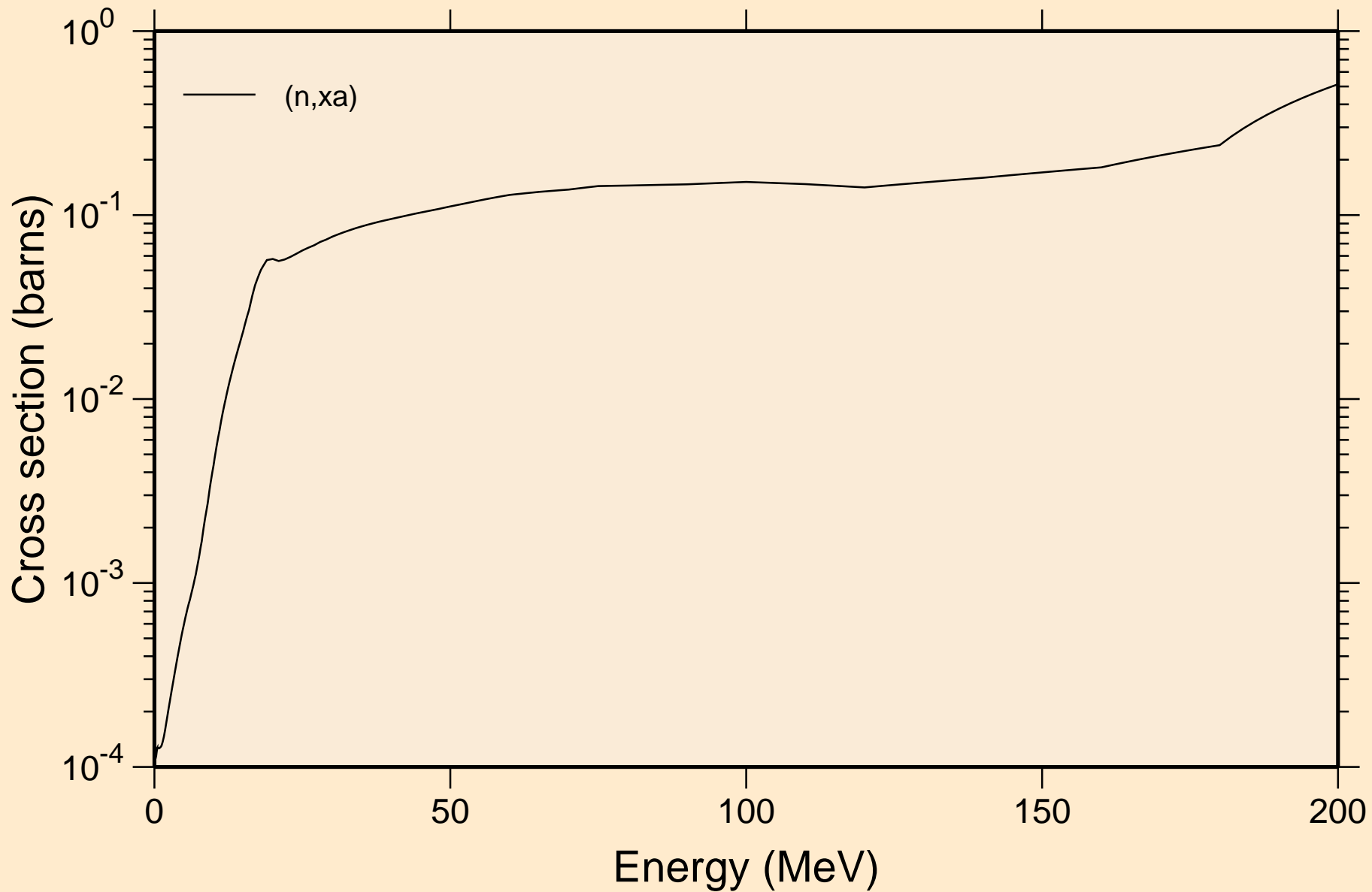


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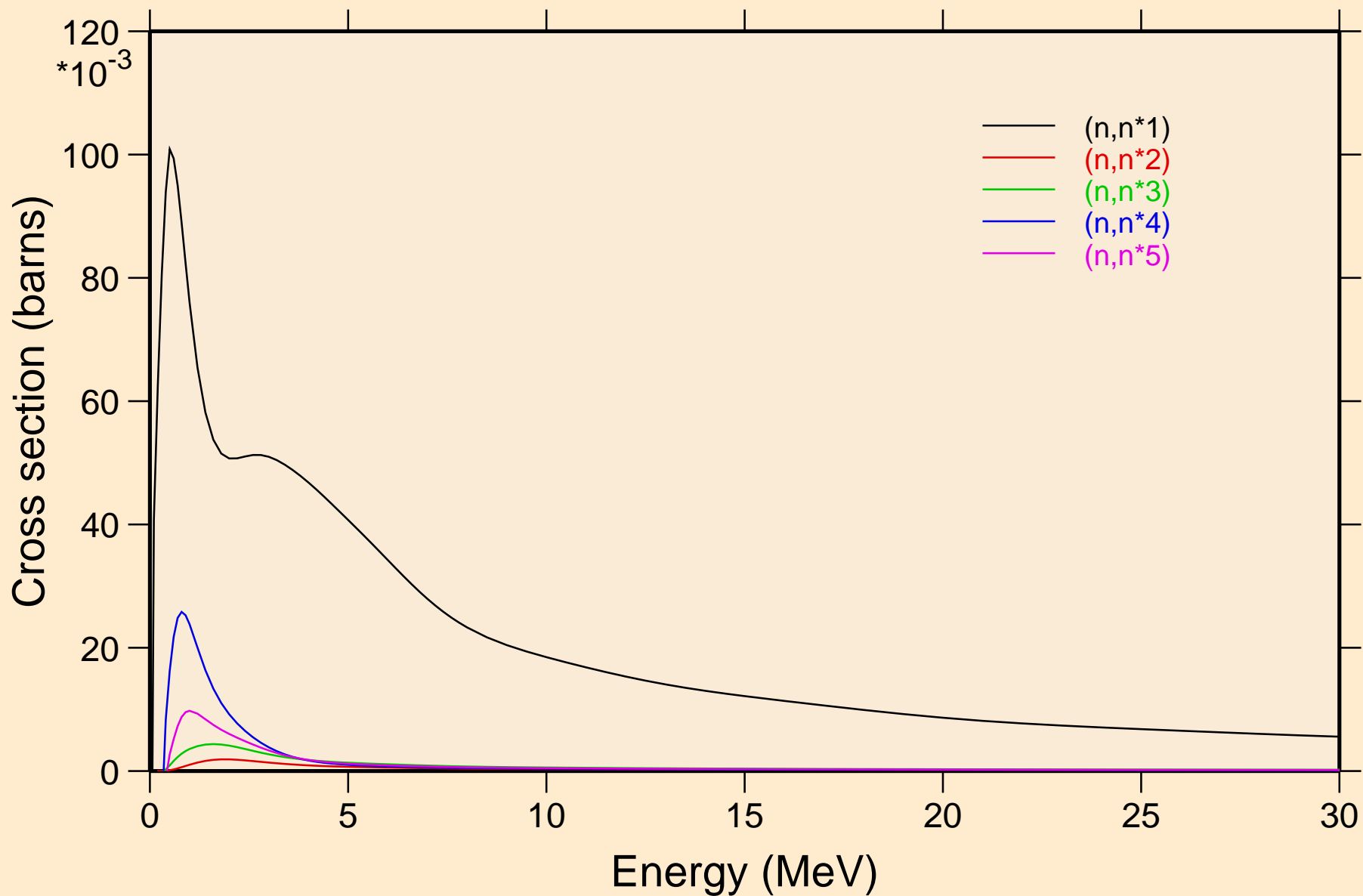
Non-threshold reactions



HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Non-threshold reactions

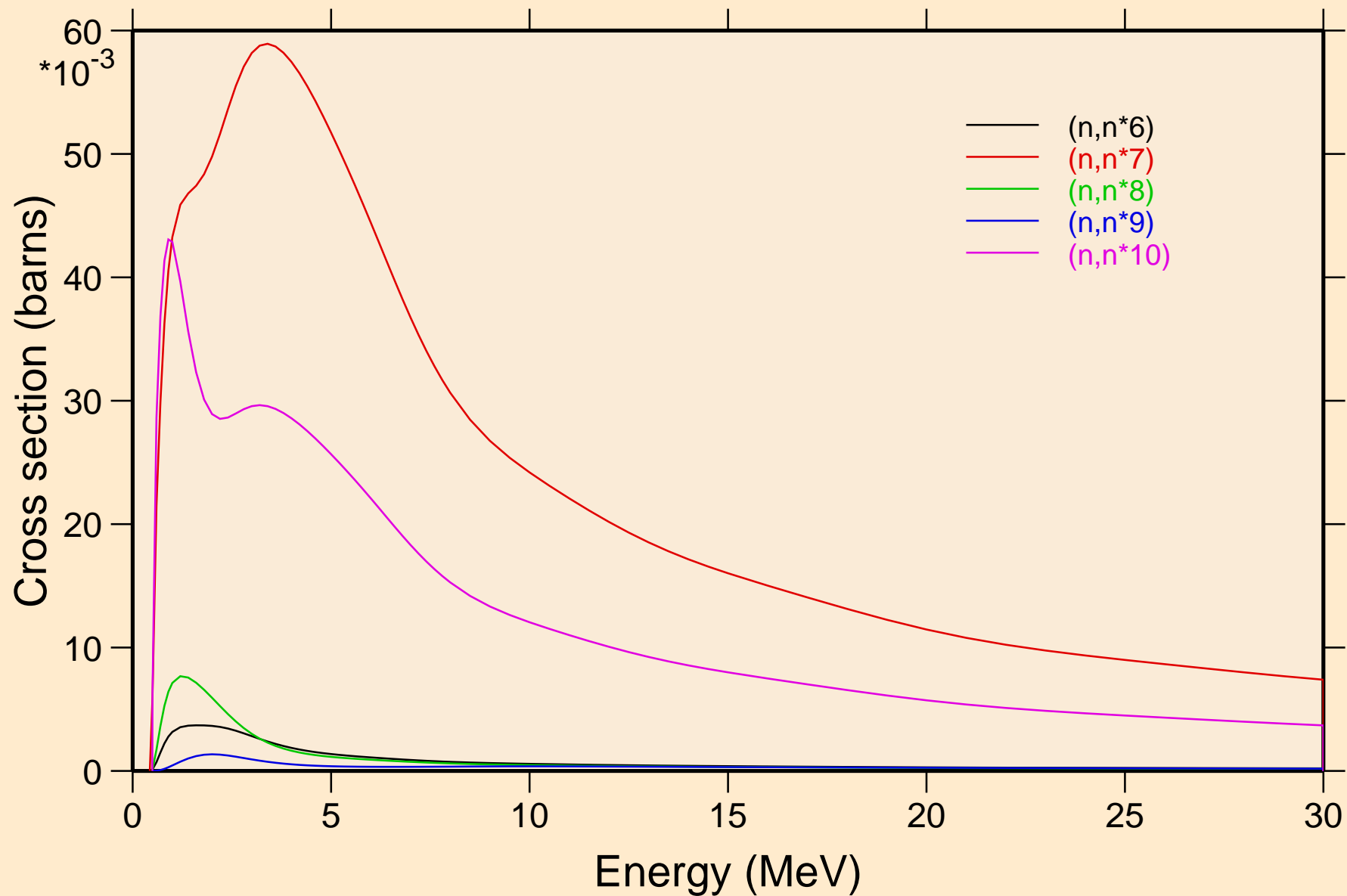


HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Inelastic levels



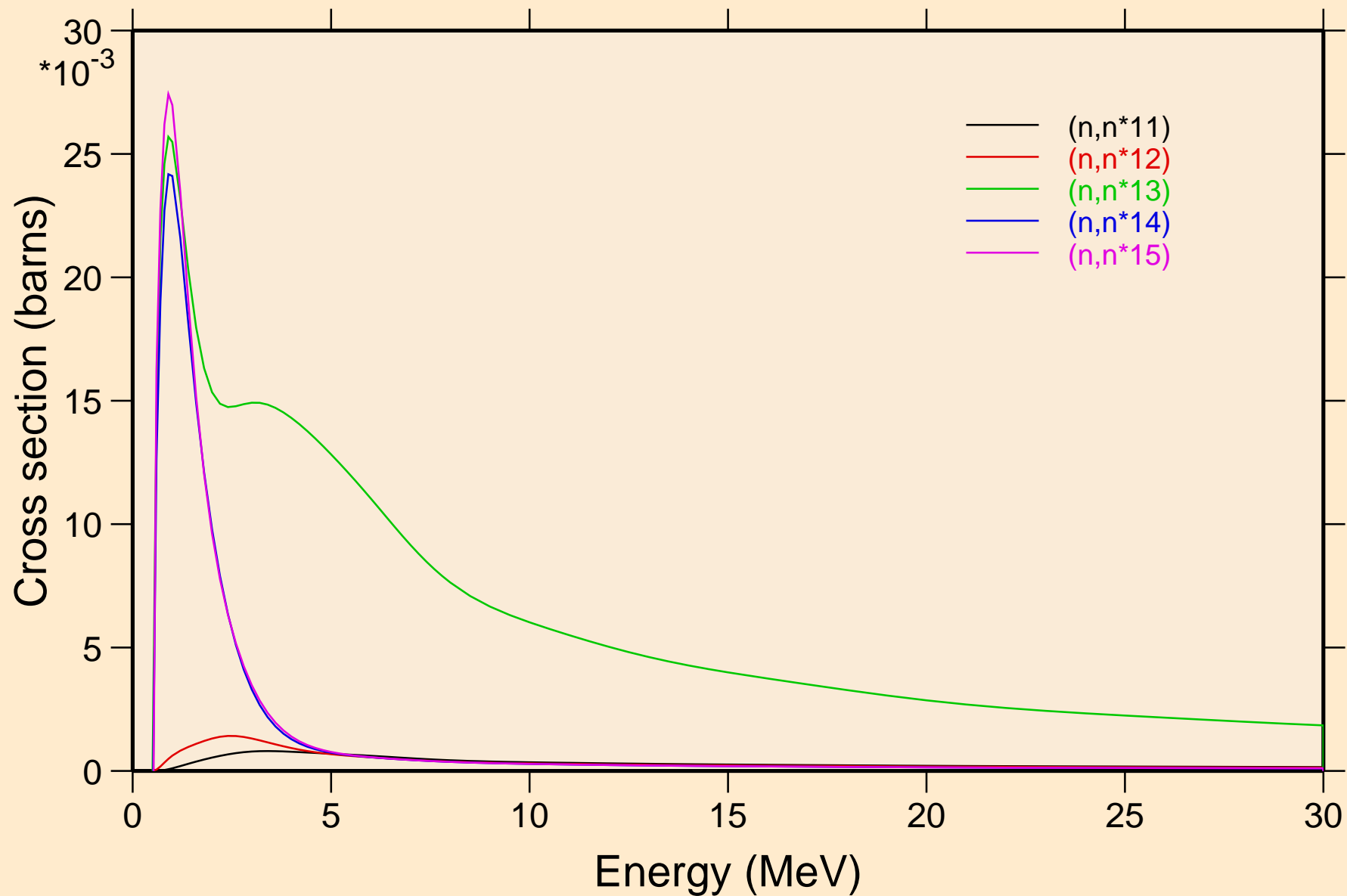
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

Inelastic levels

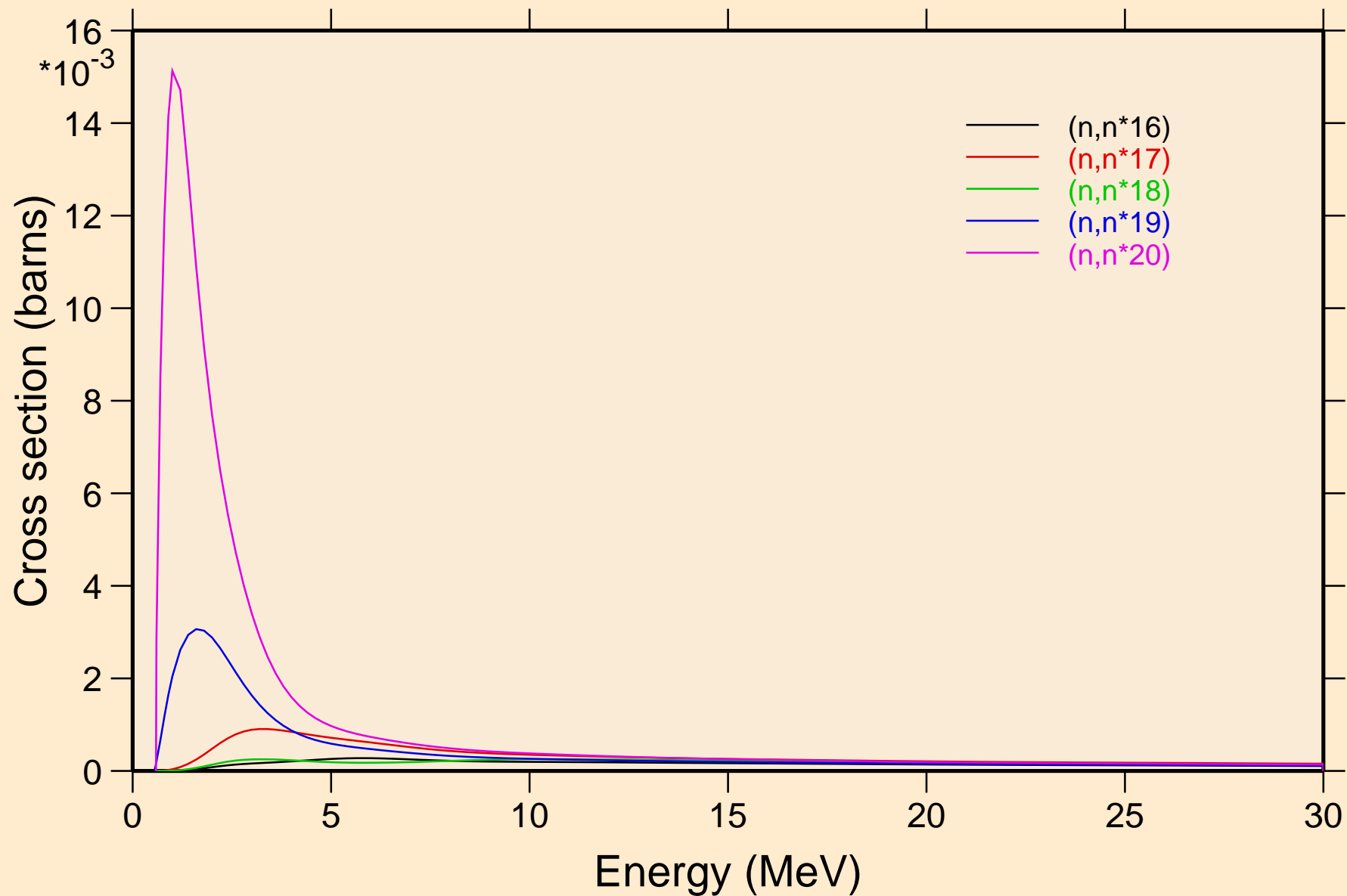


HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

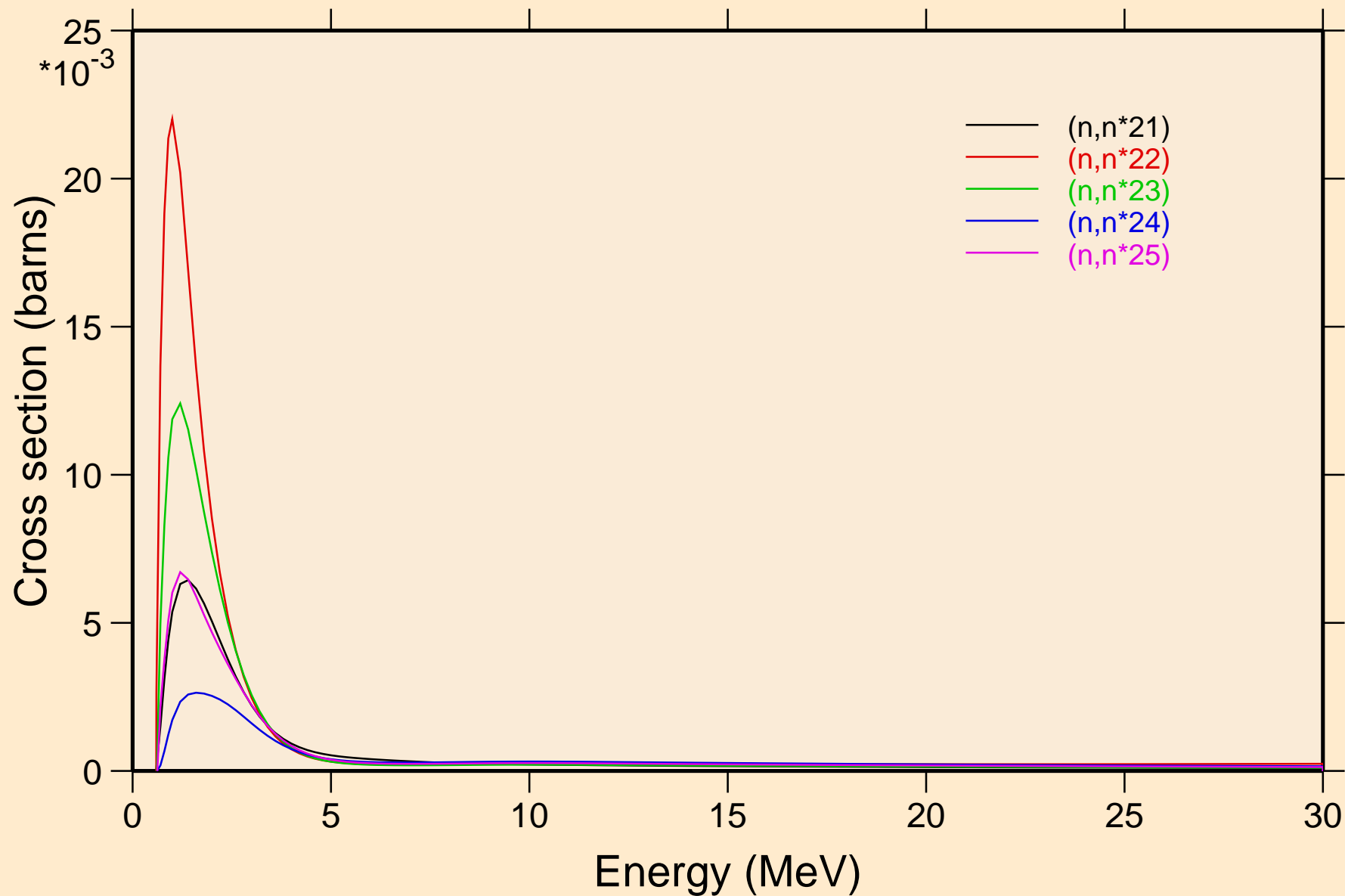
Inelastic levels



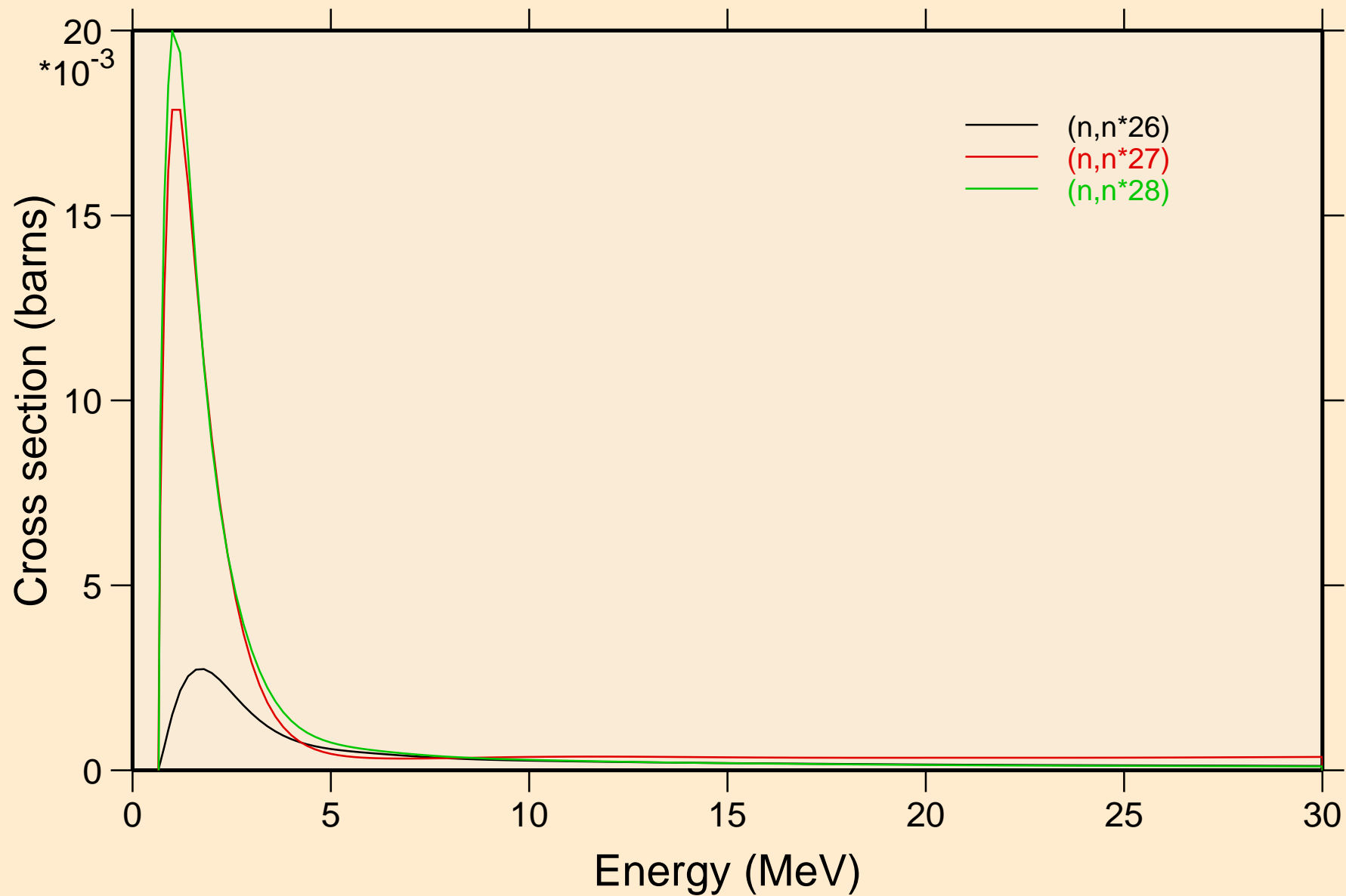
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Inelastic levels



HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Inelastic levels

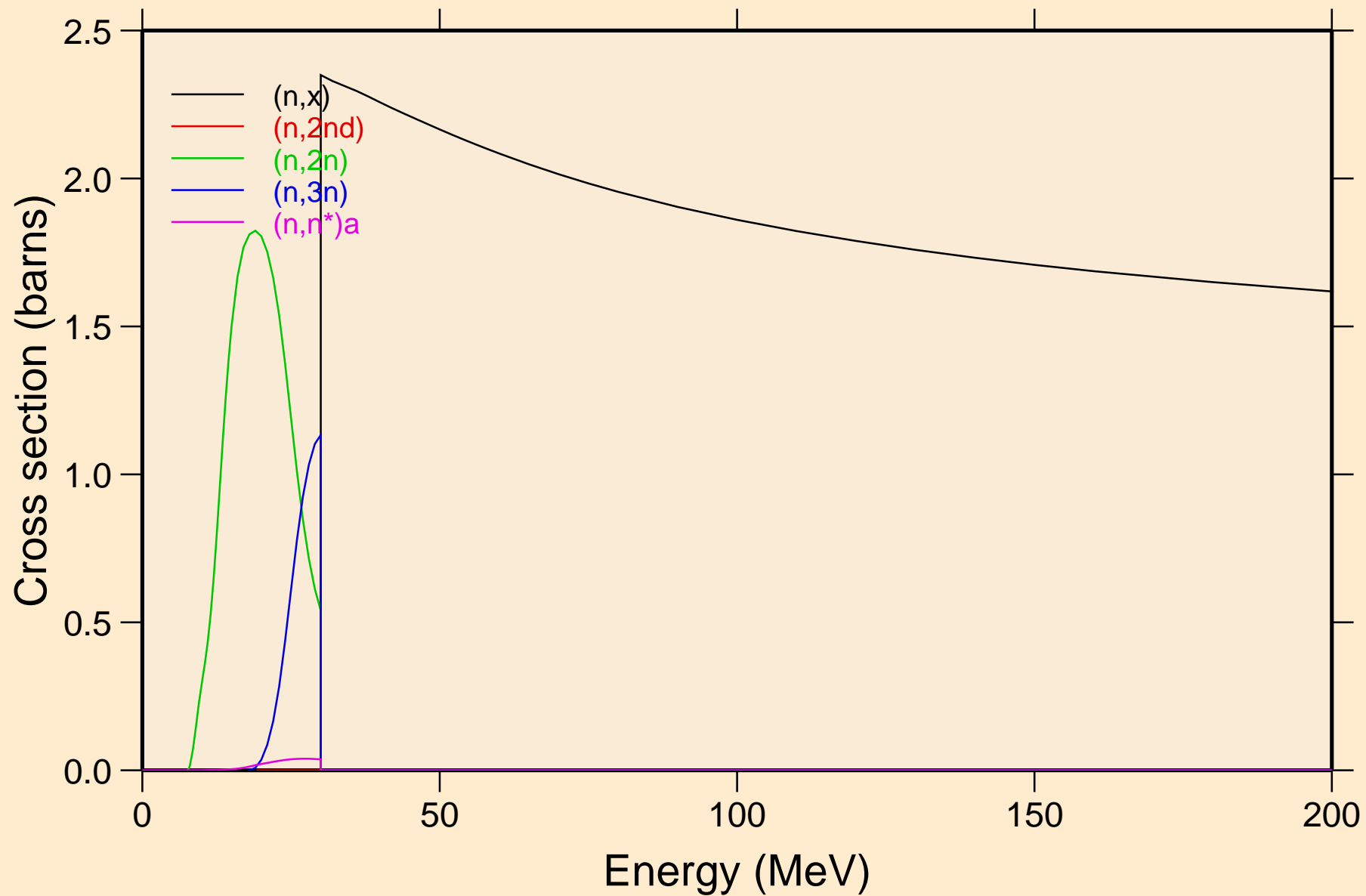


HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Inelastic levels

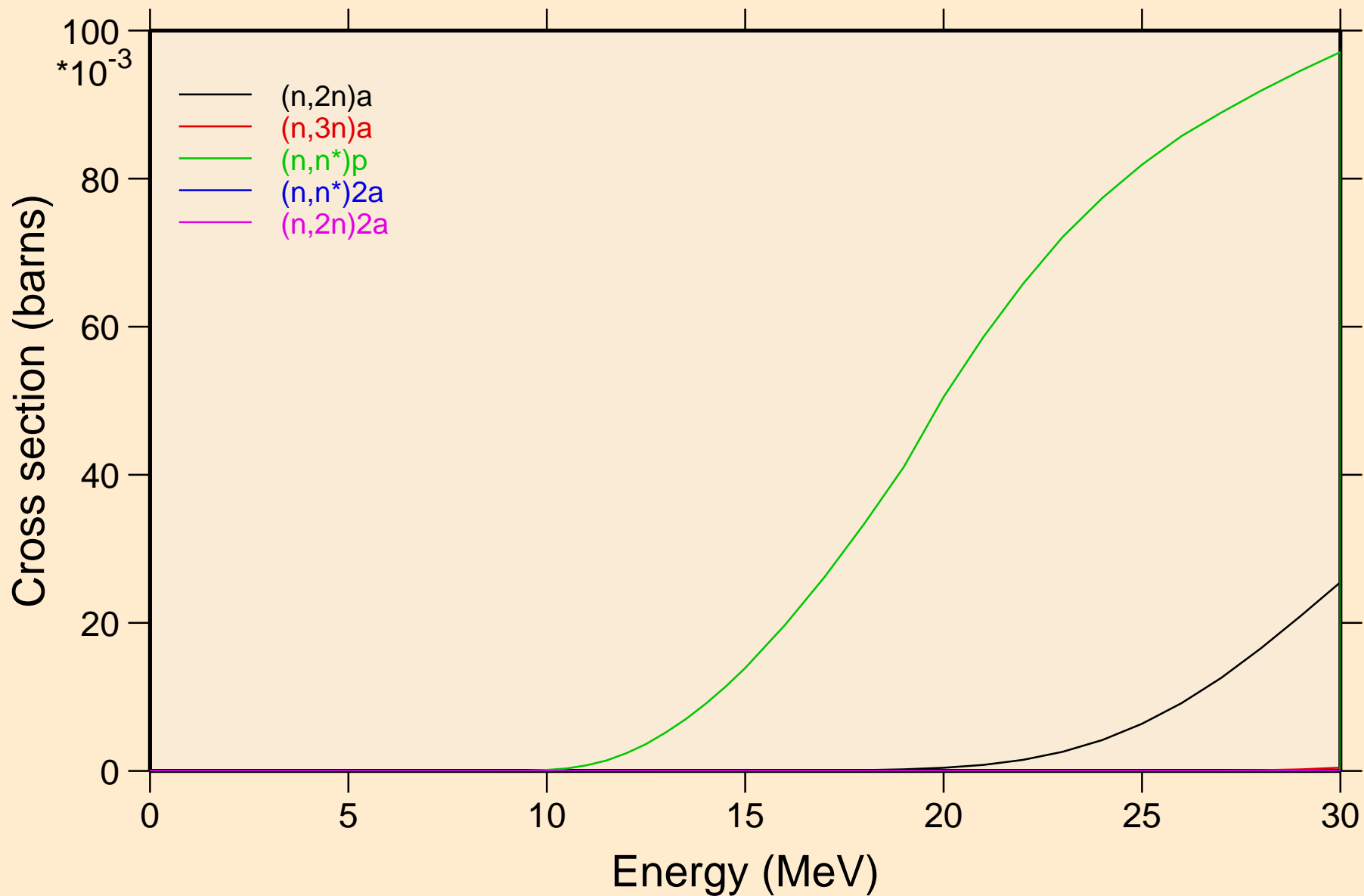


HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

Threshold reactions

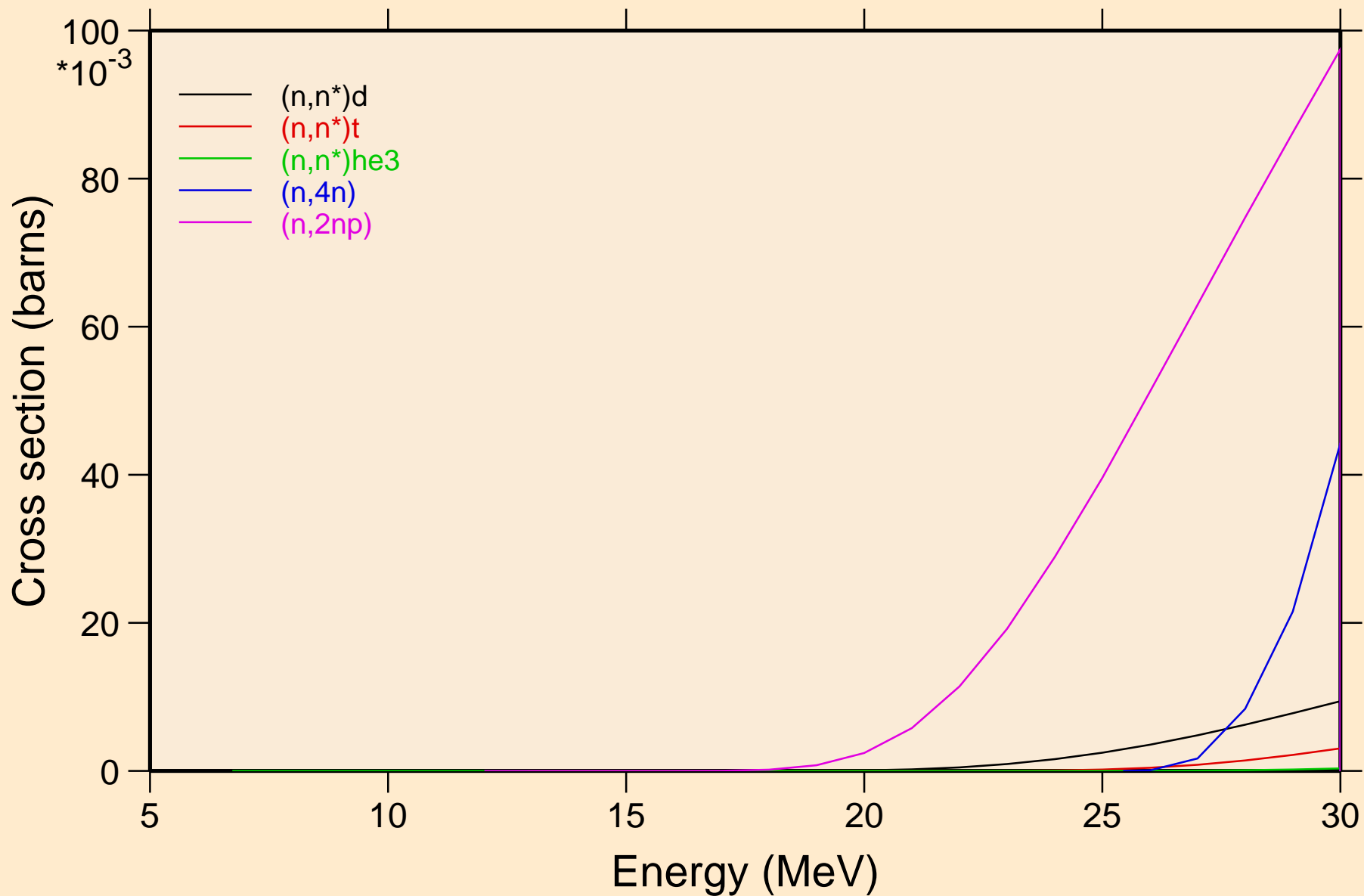


HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Threshold reactions

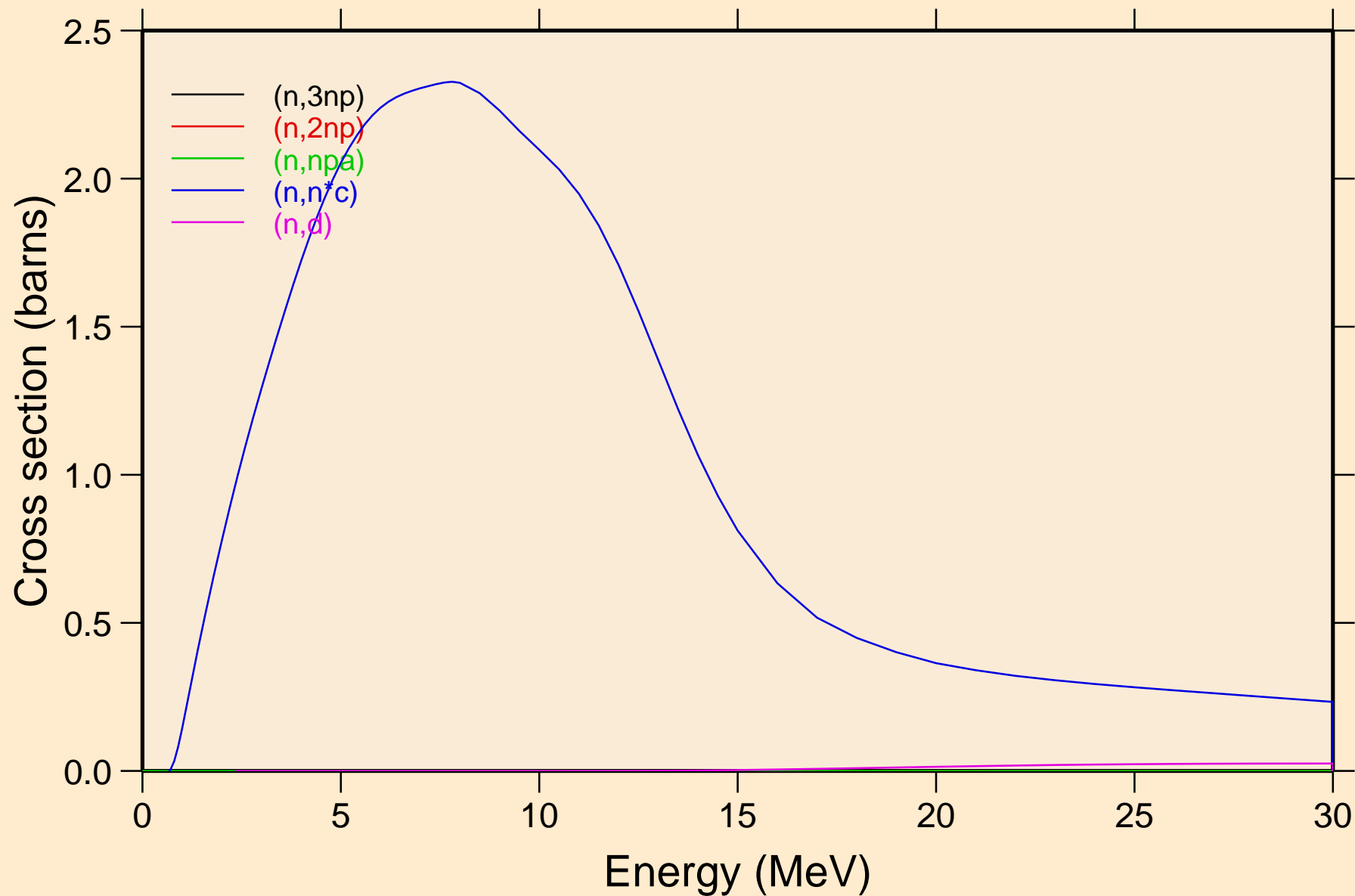


HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

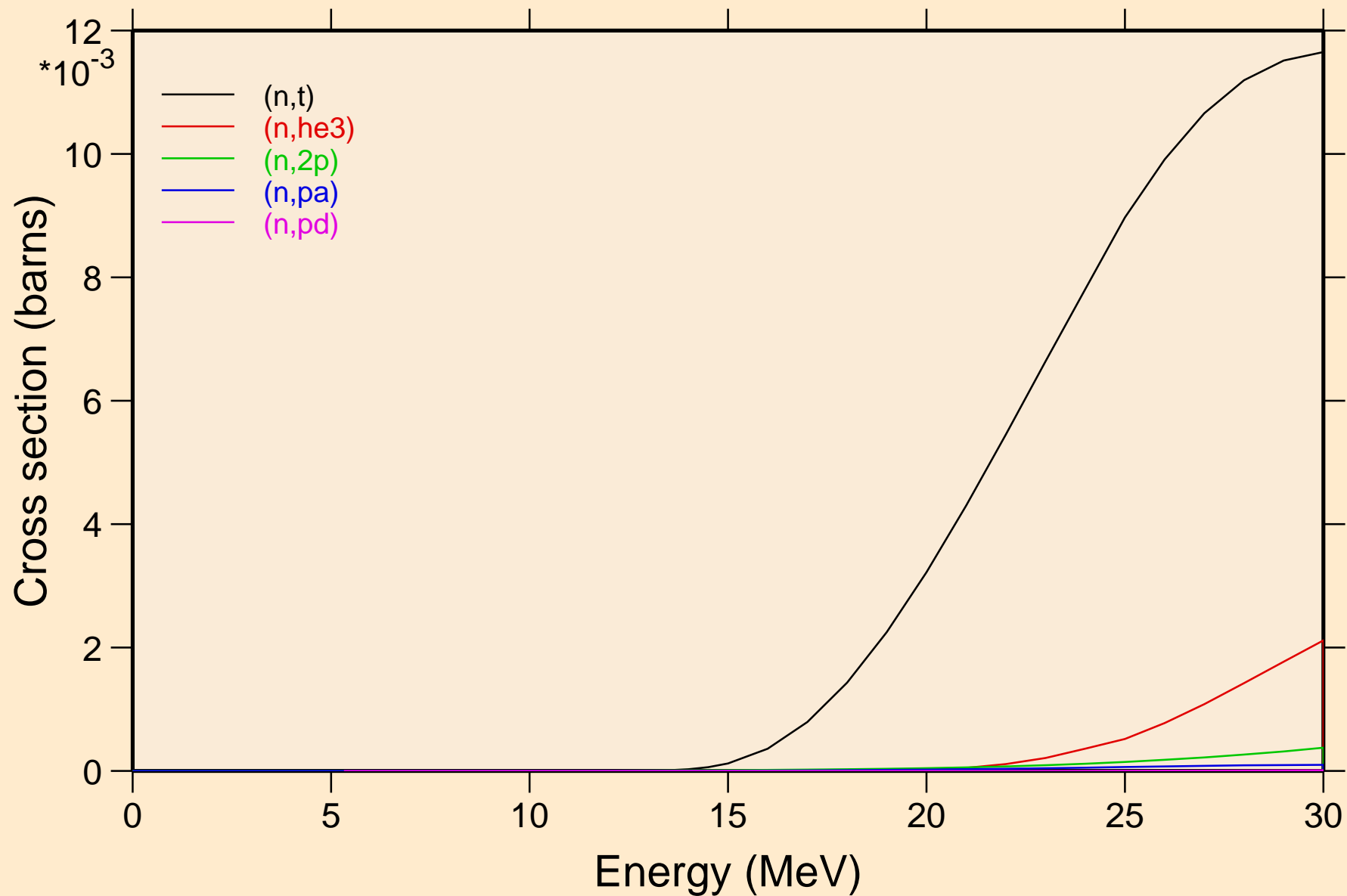
Threshold reactions



HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Threshold reactions

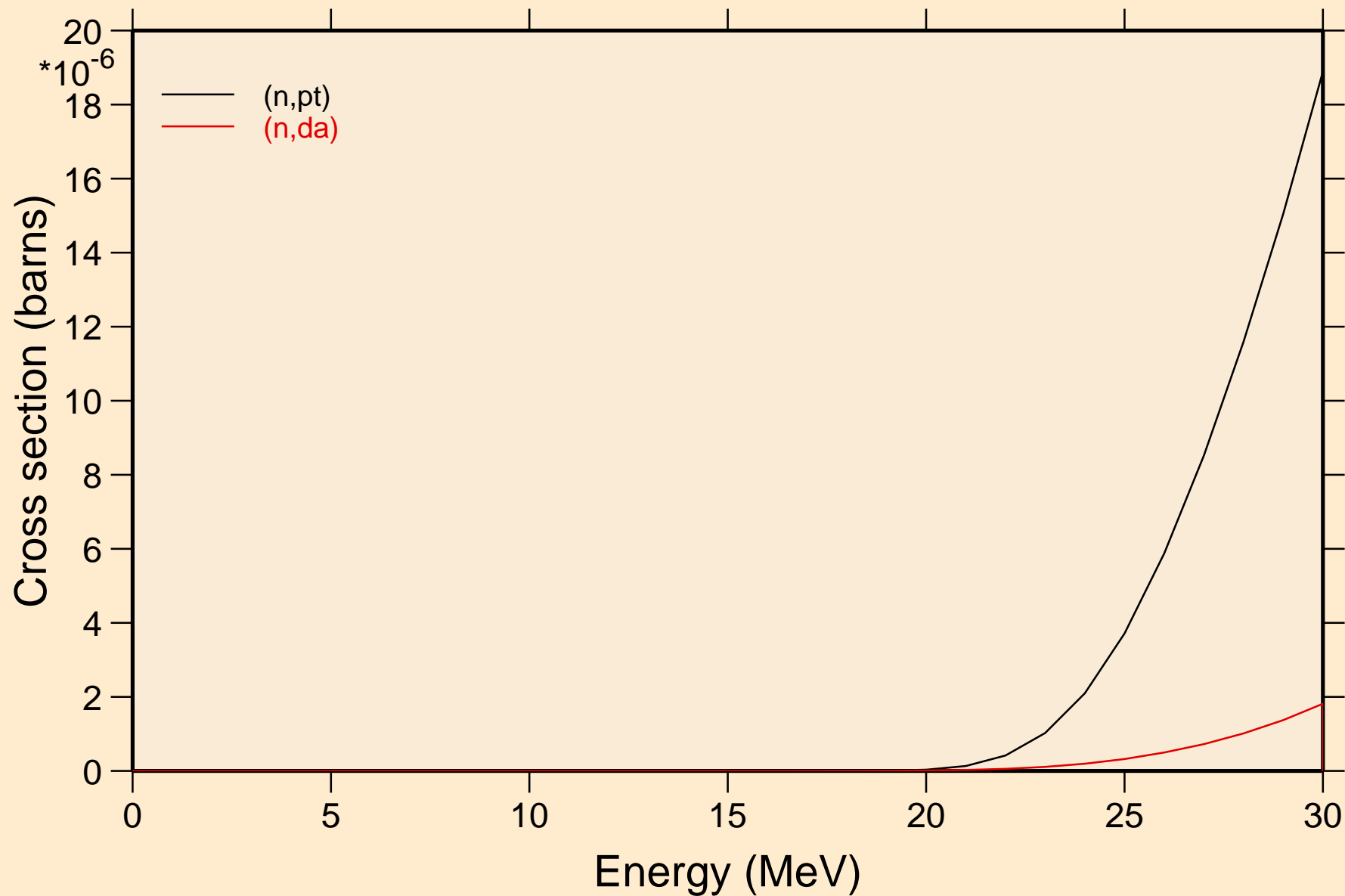


HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Threshold reactions

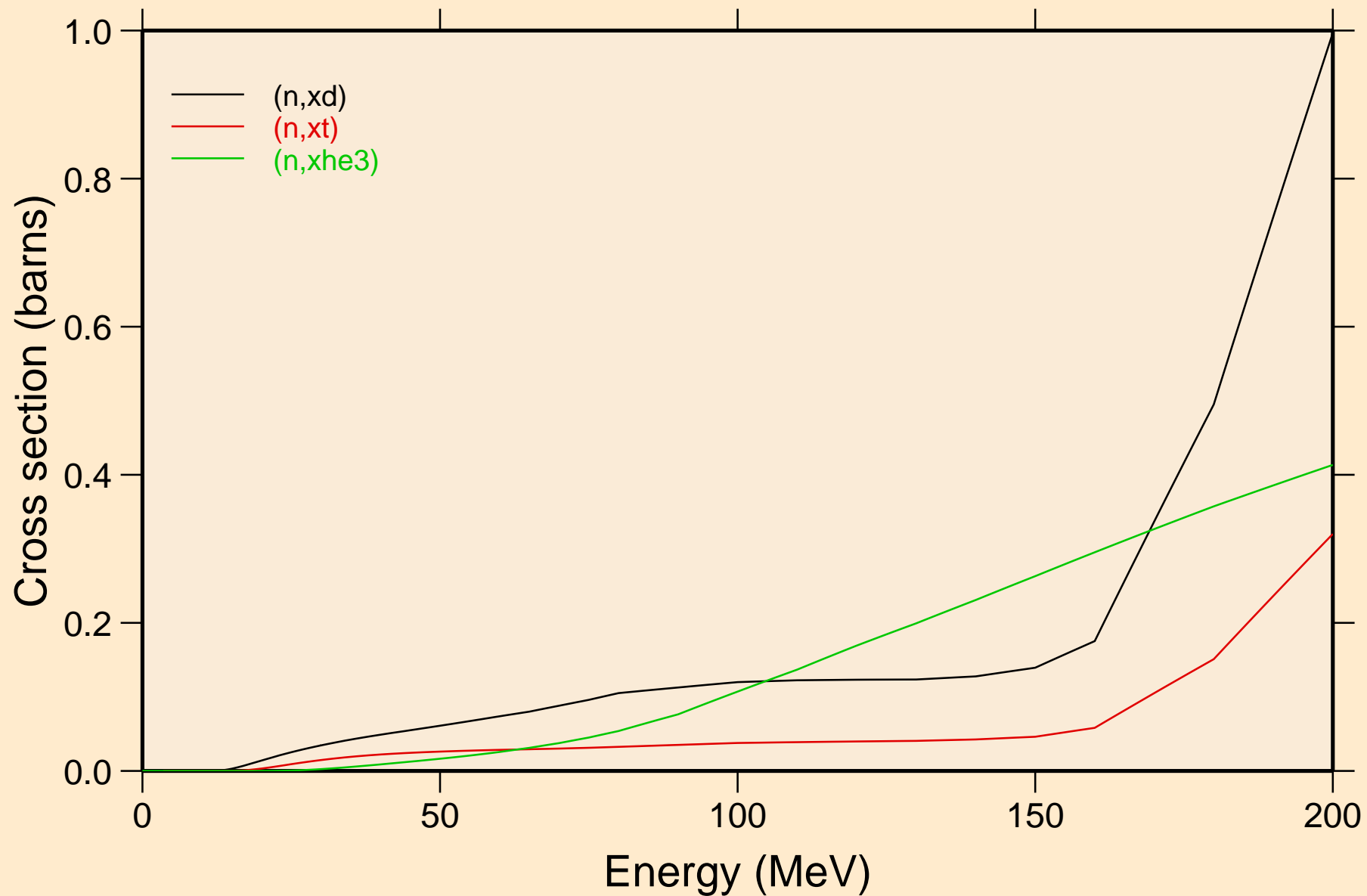


HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

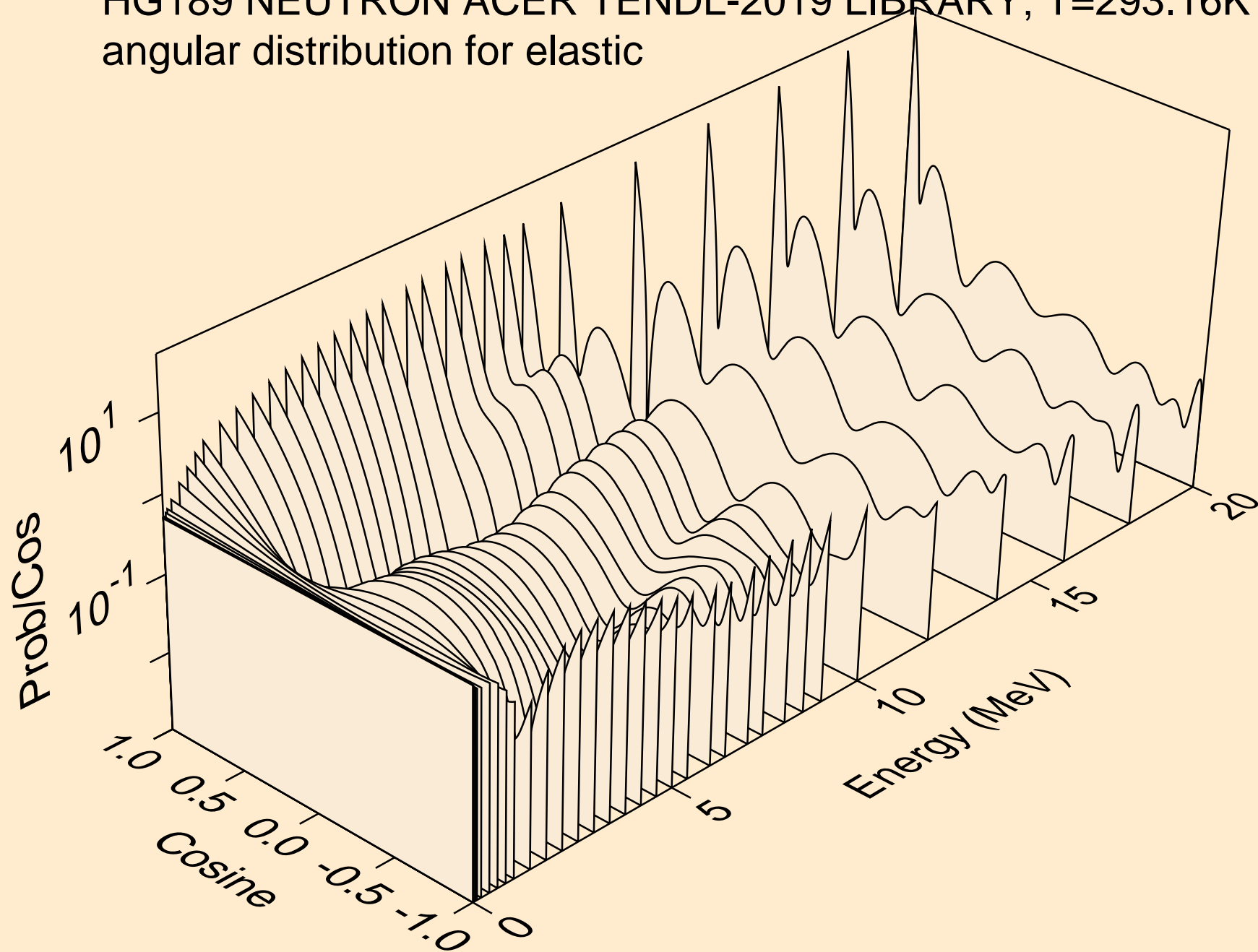
Threshold reactions



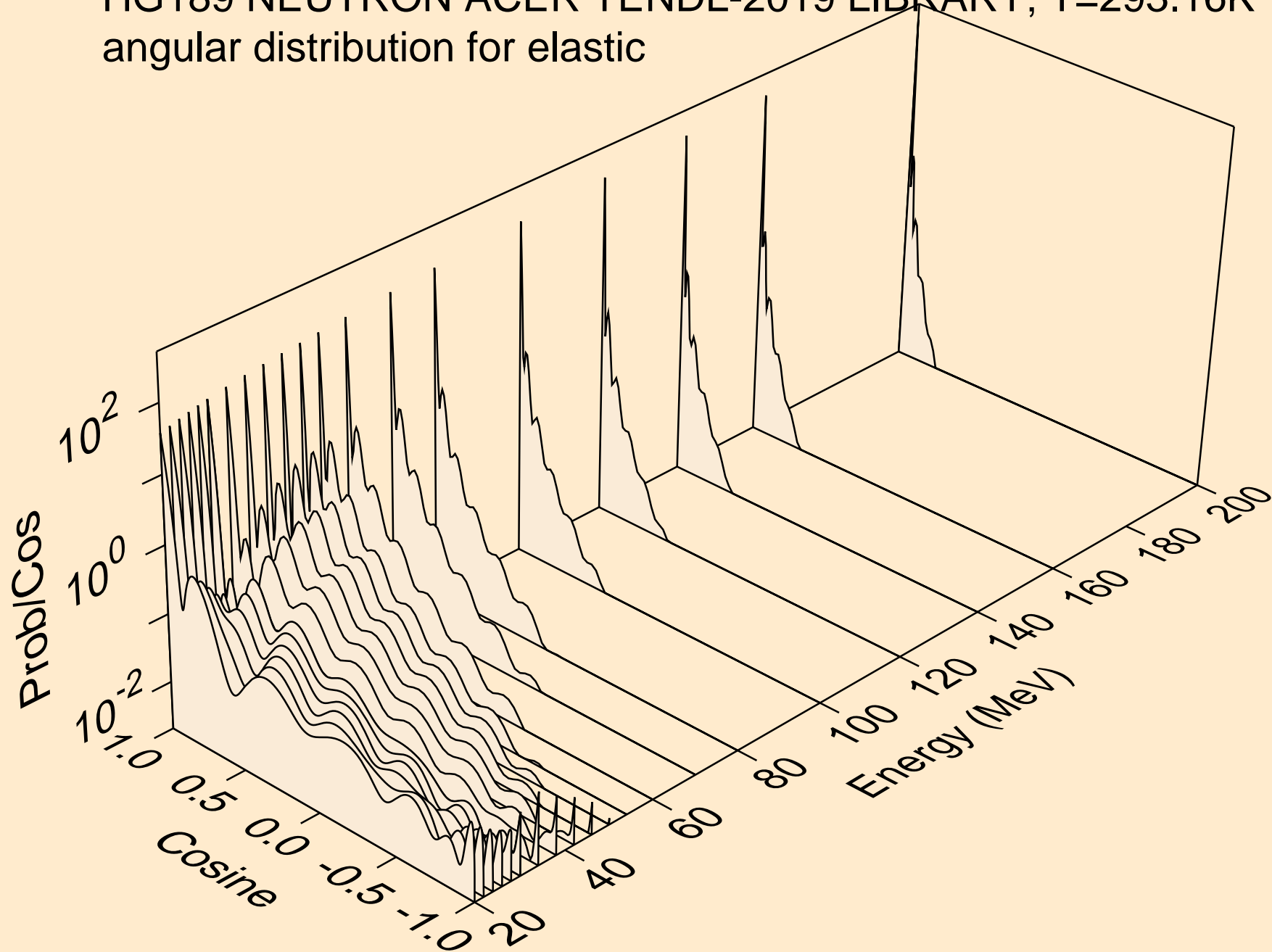
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Threshold reactions



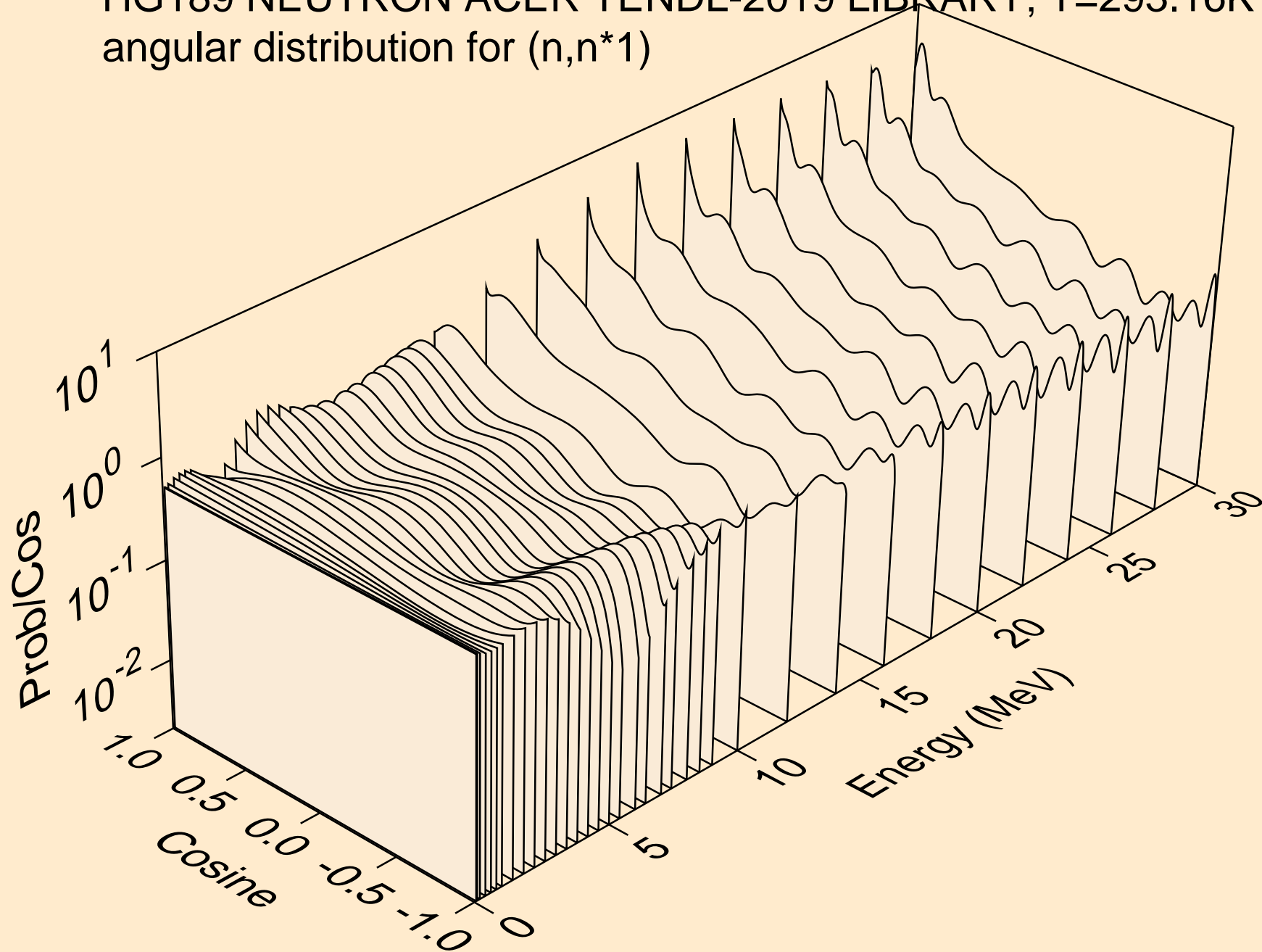
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for elastic



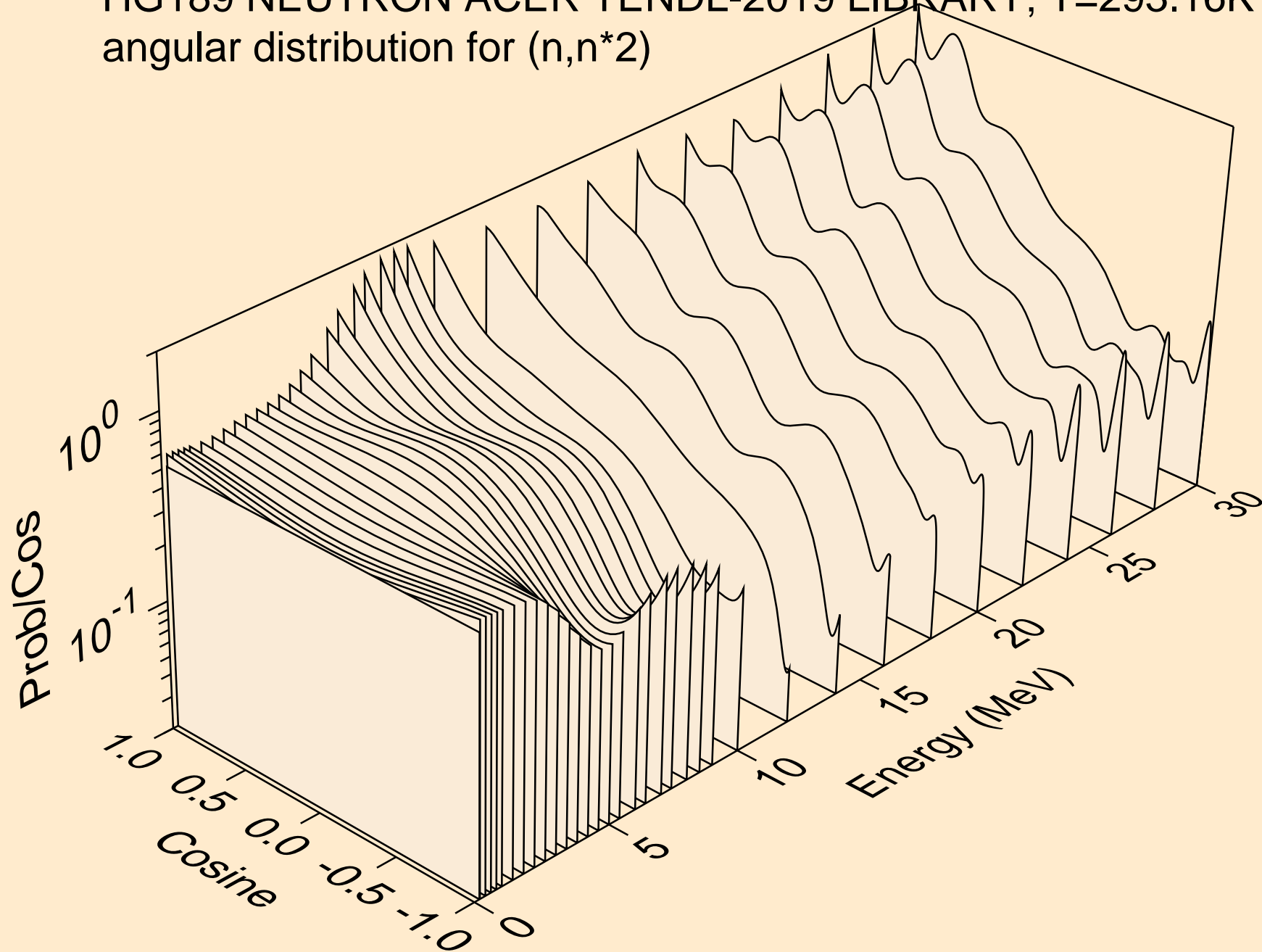
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angular distribution for elastic



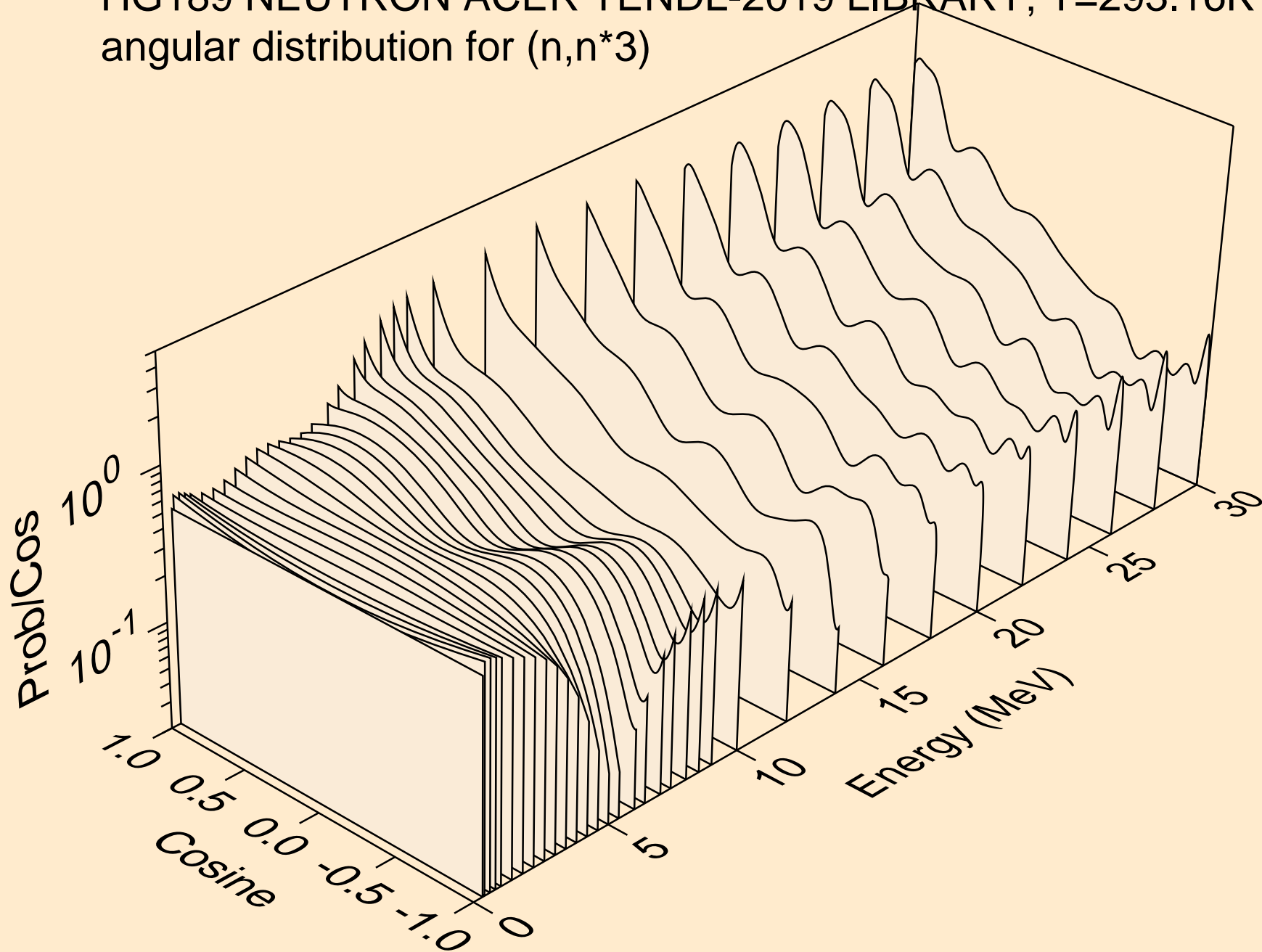
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*1)



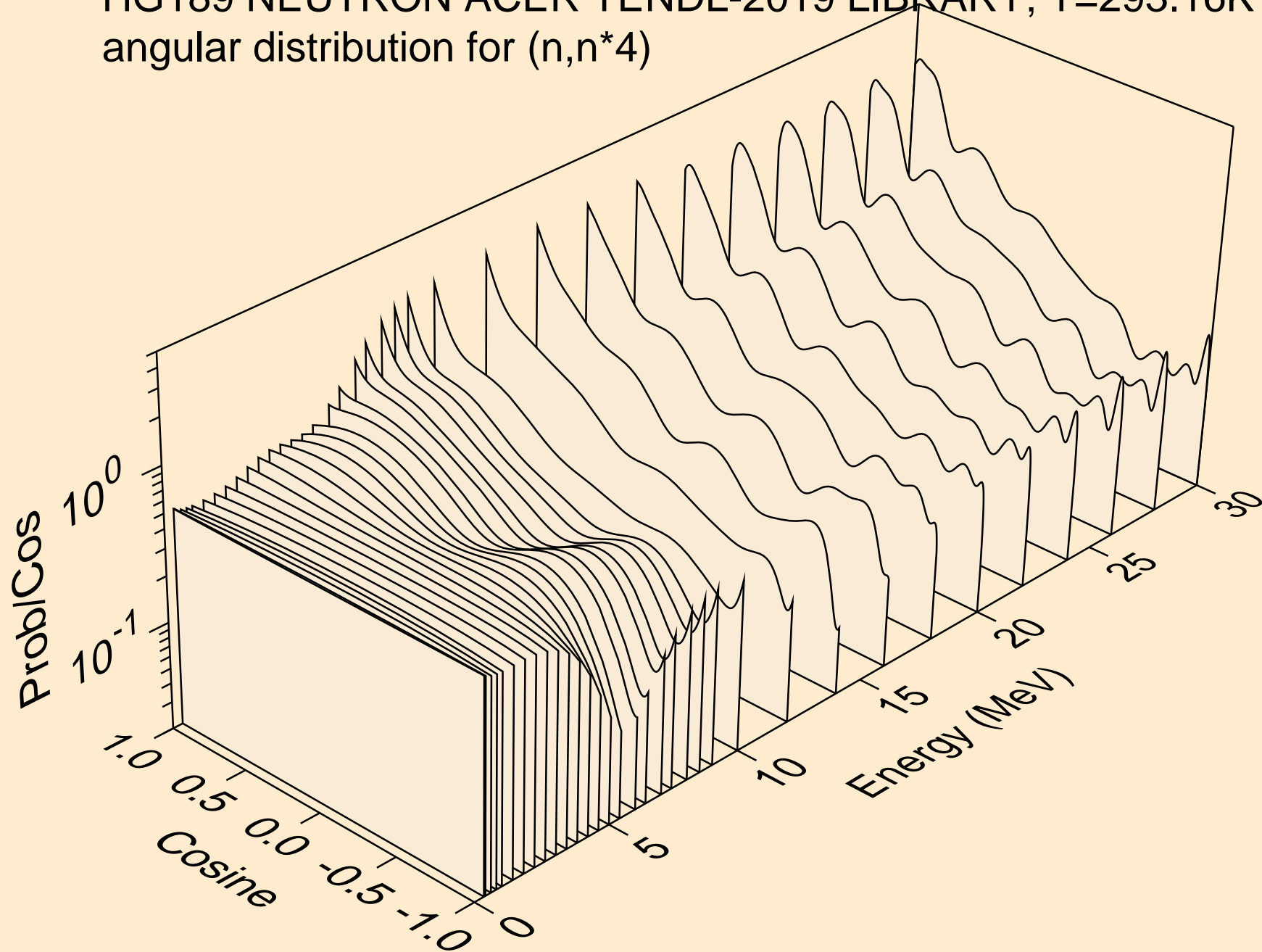
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angular distribution for (n,n*2)



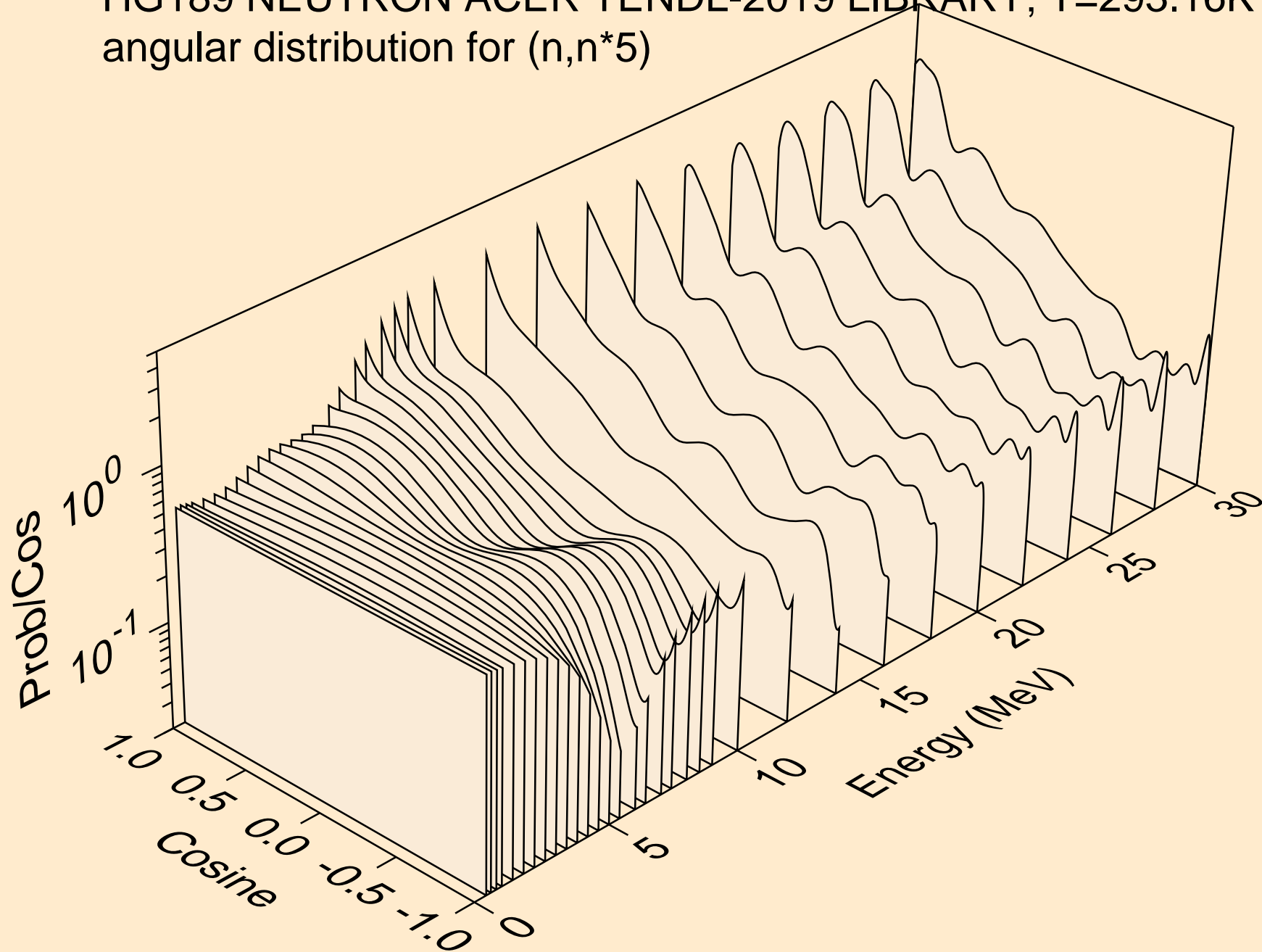
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angular distribution for (n,n*3)



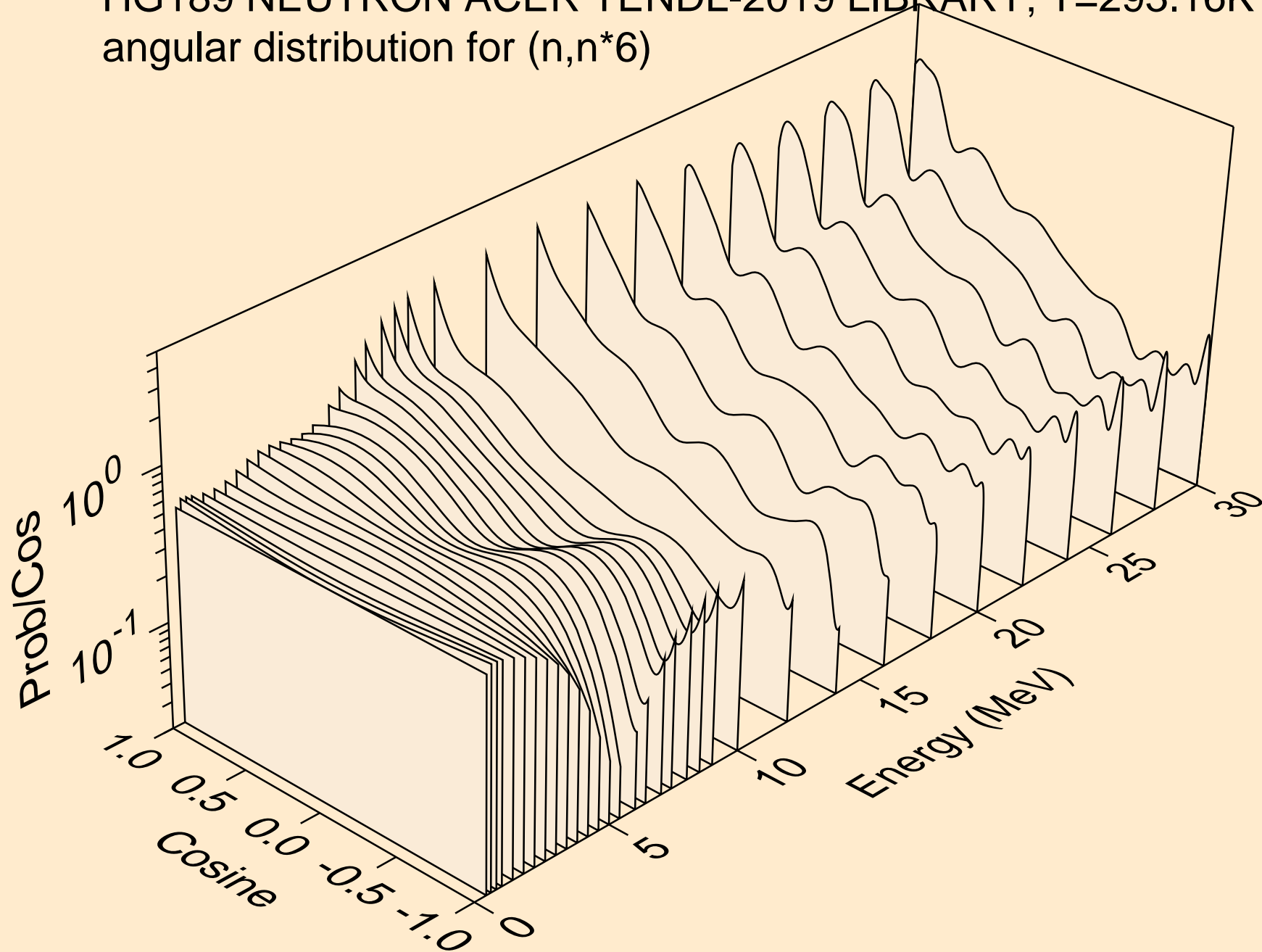
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angular distribution for (n,n*4)



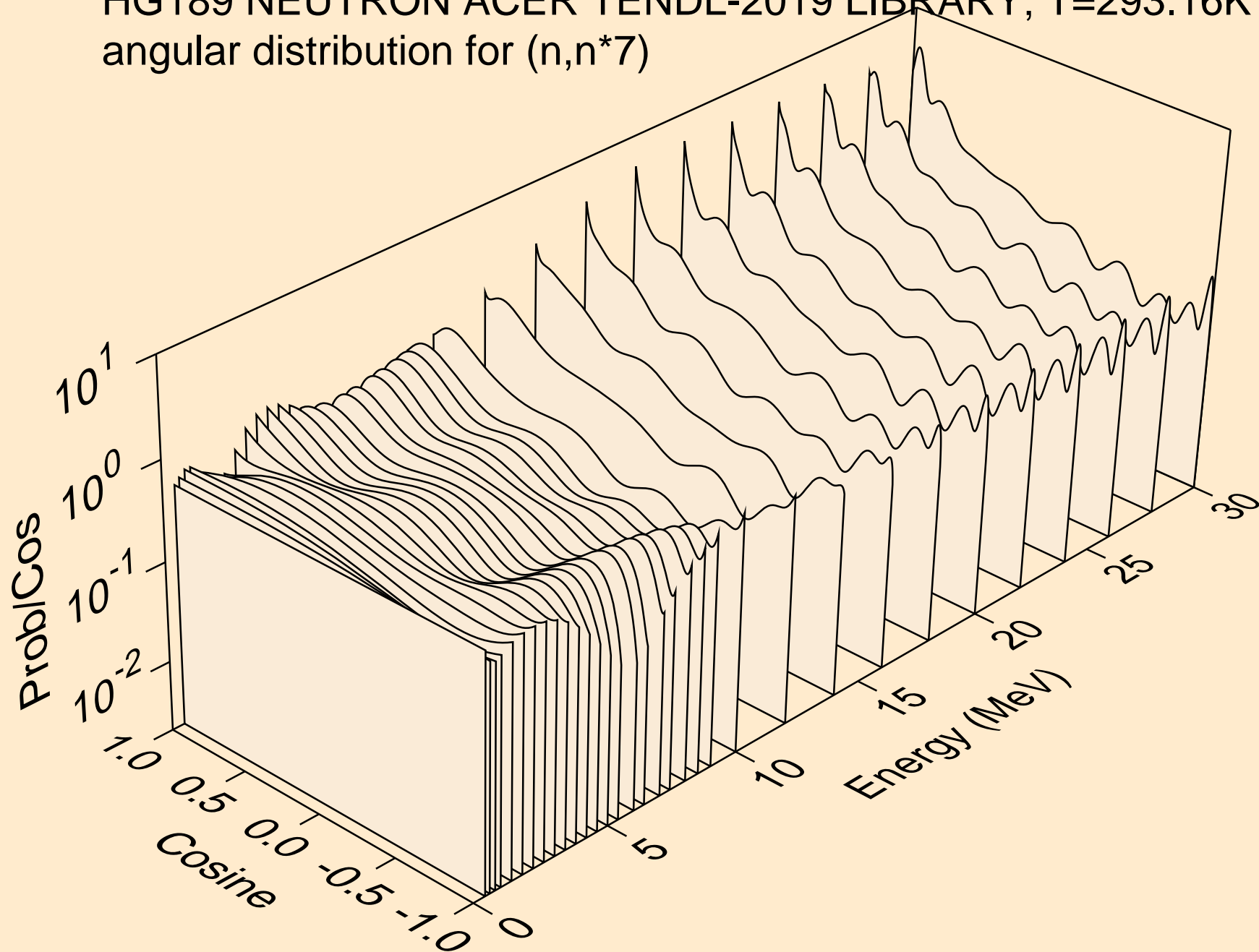
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*5)



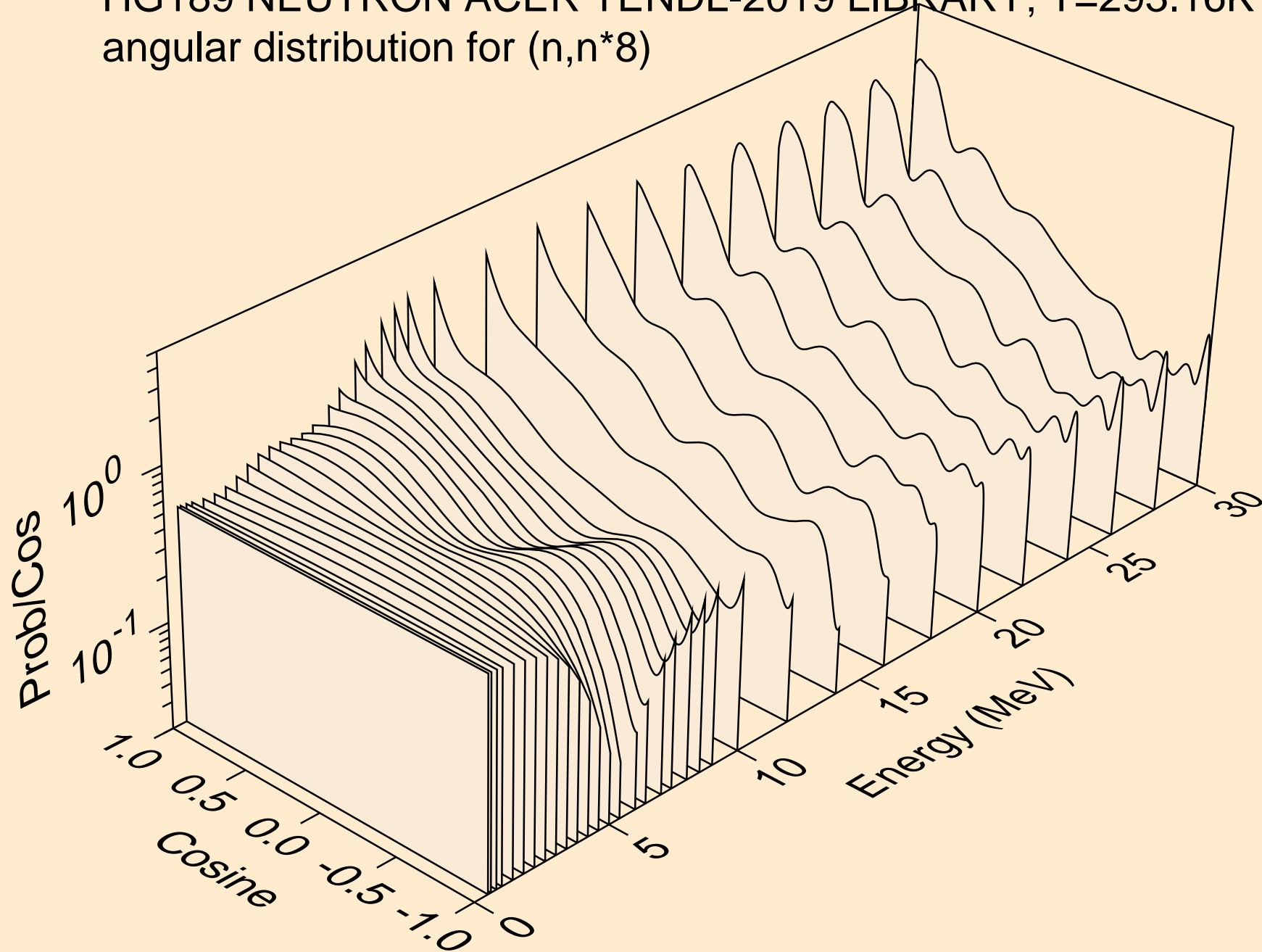
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angular distribution for (n,n*6)



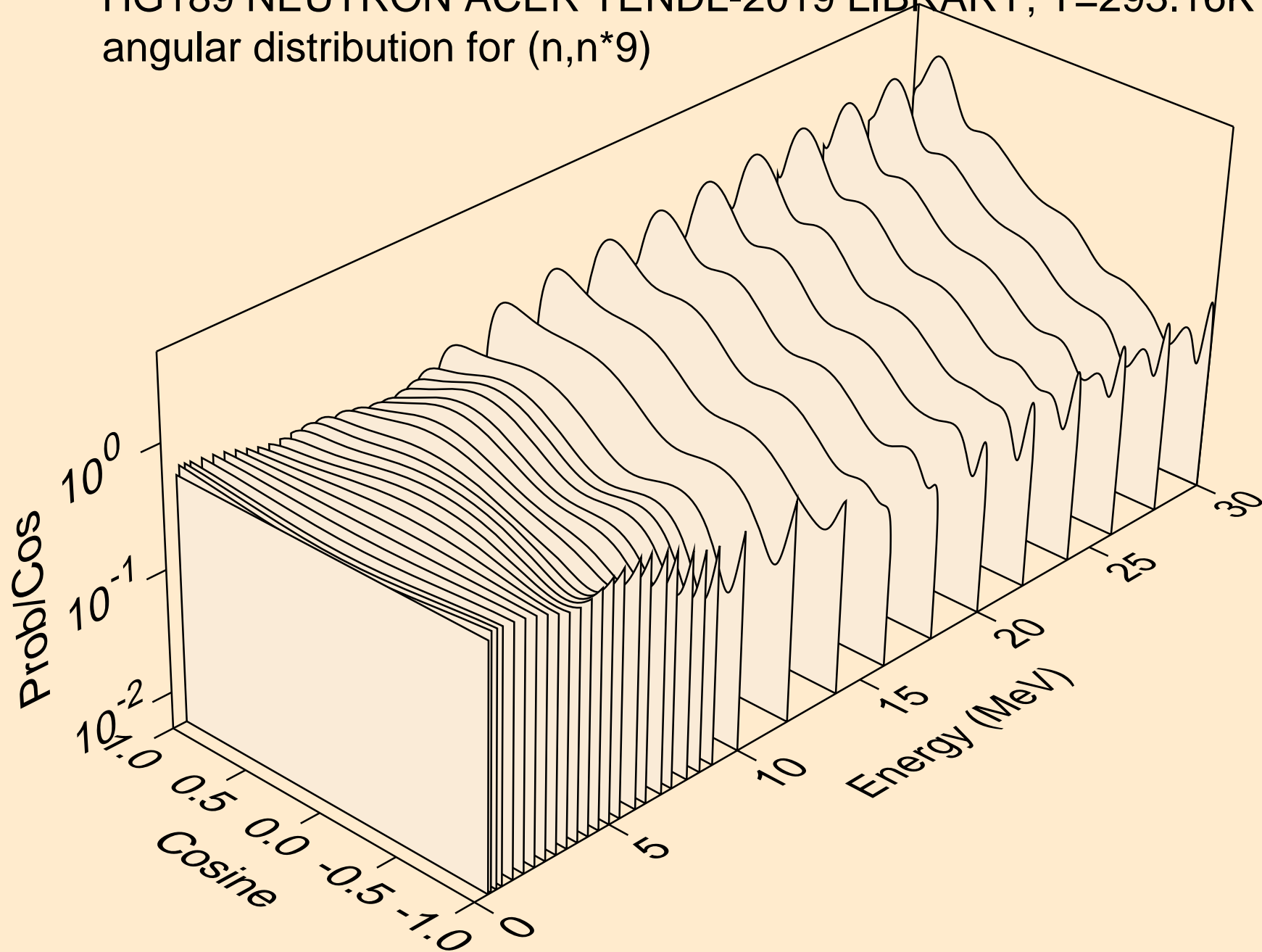
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*7)



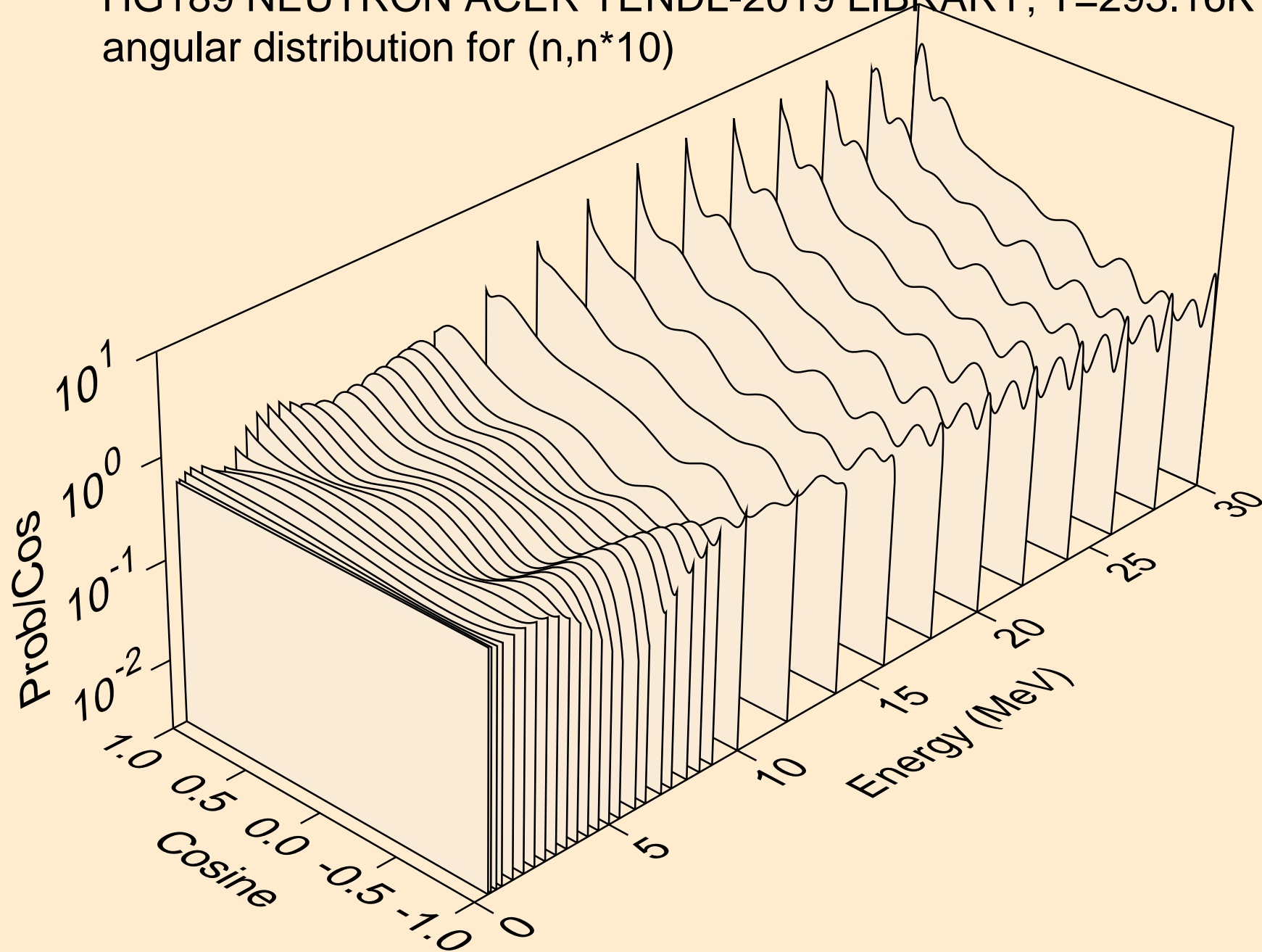
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angular distribution for (n,n*8)



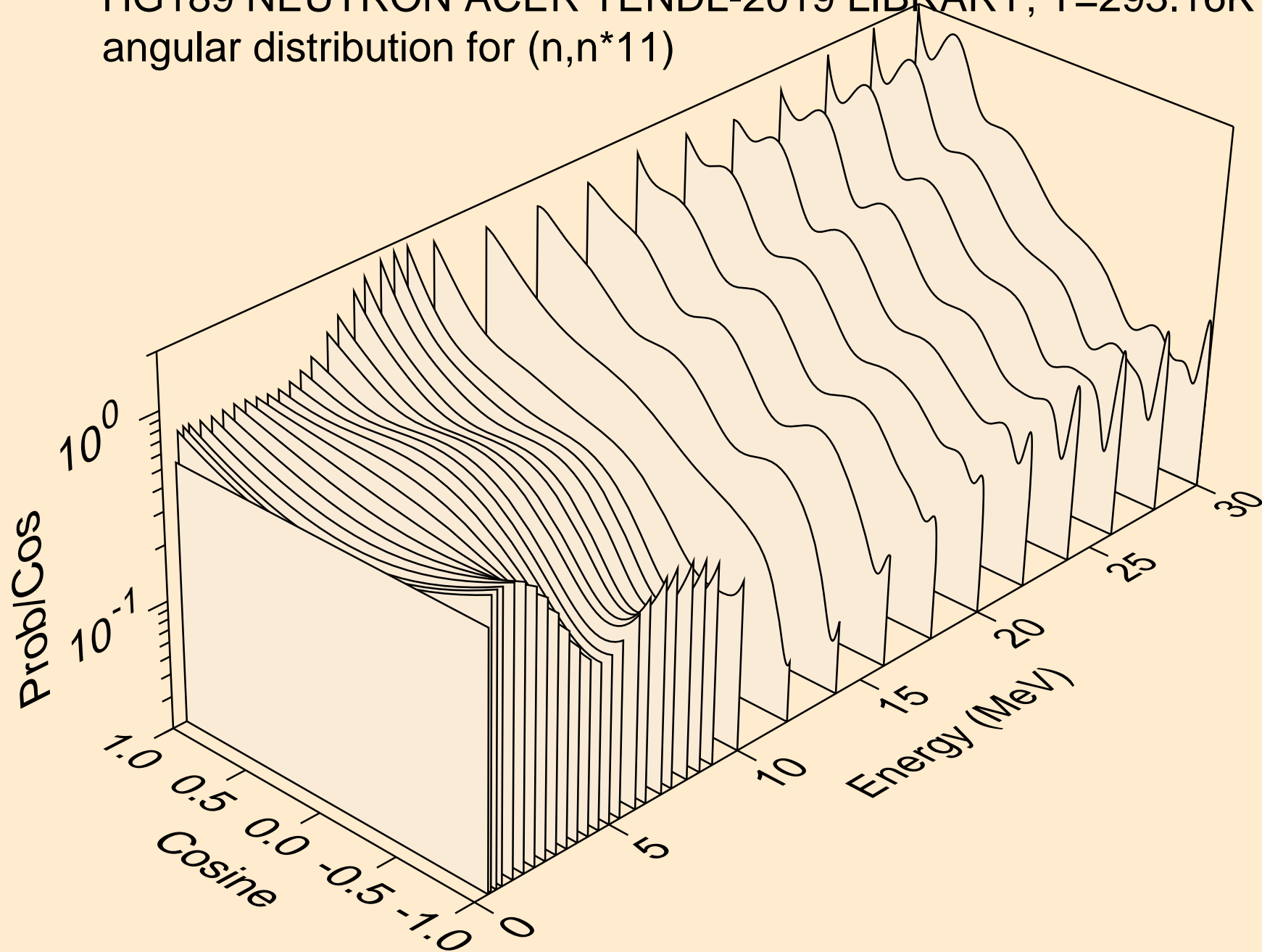
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*9)



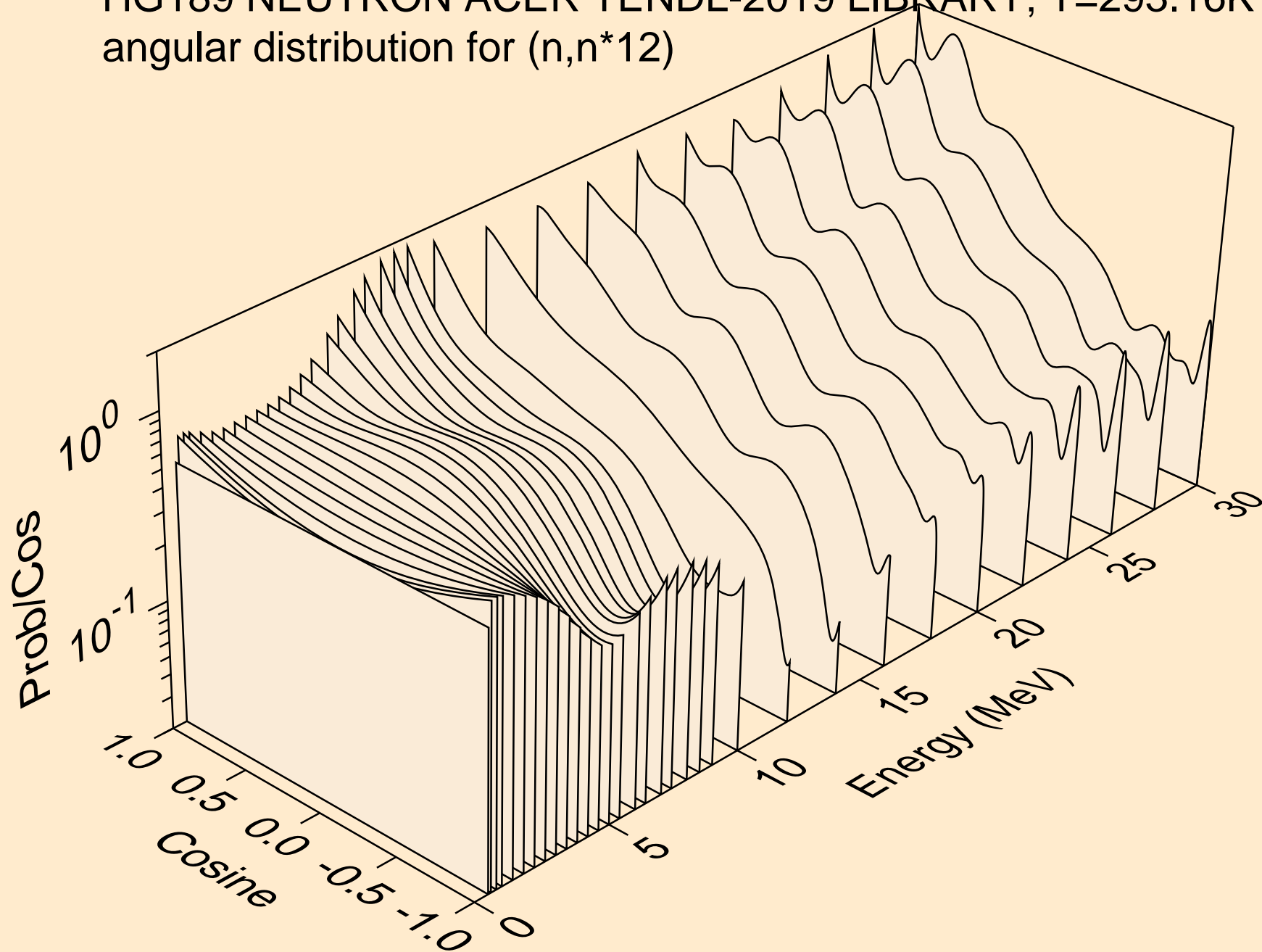
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*10)



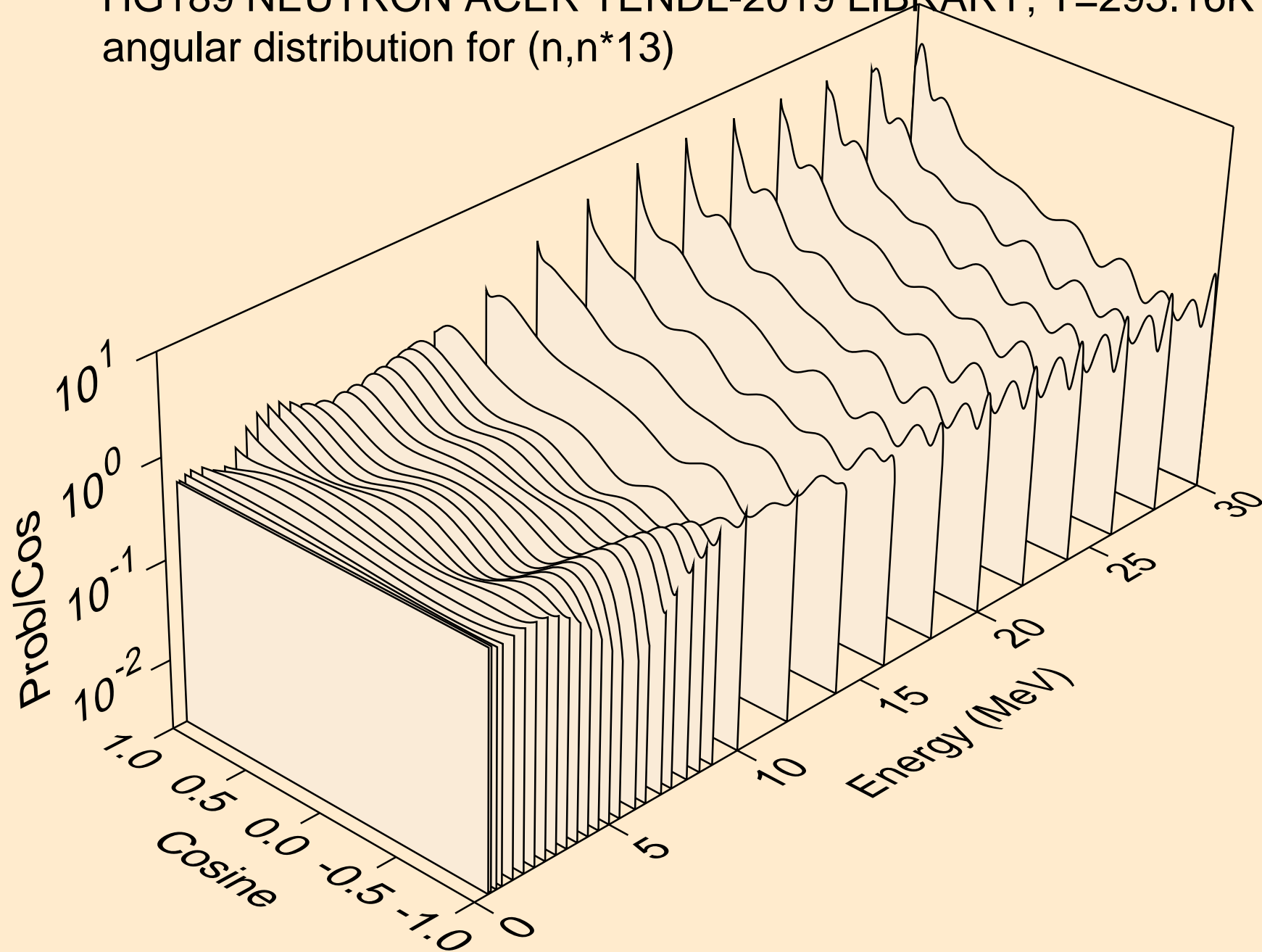
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*11)



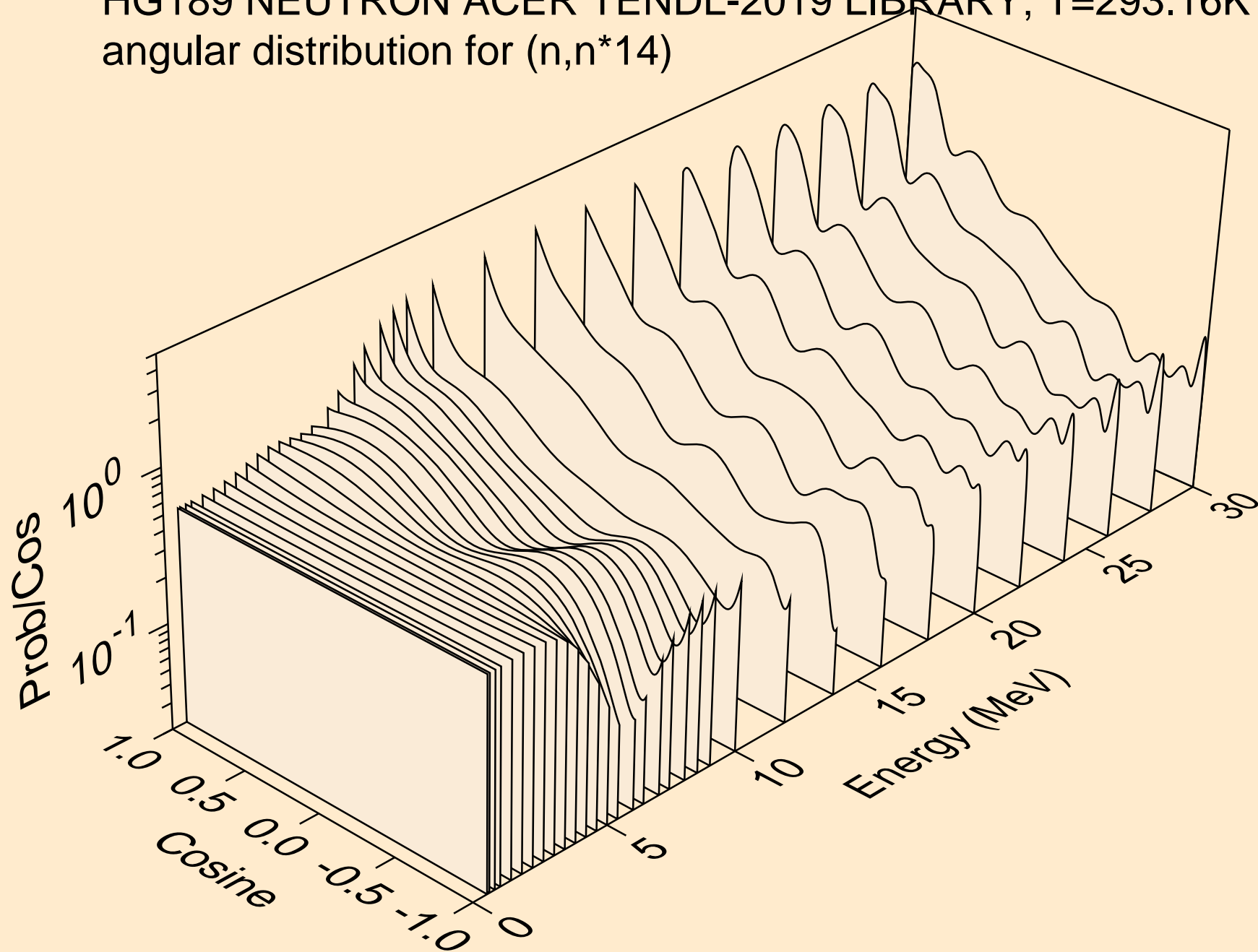
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angular distribution for (n,n*12)



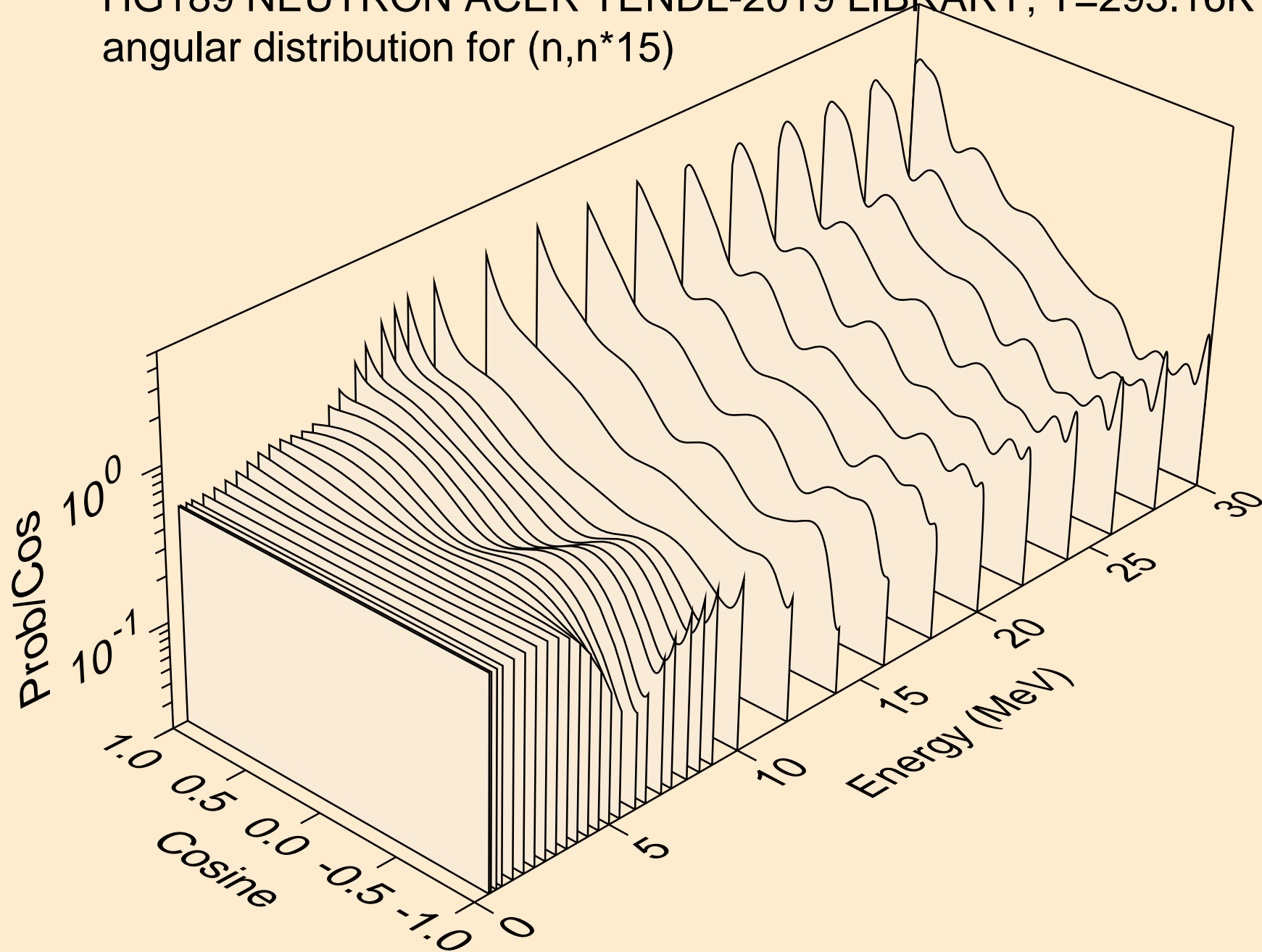
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angular distribution for (n,n*13)



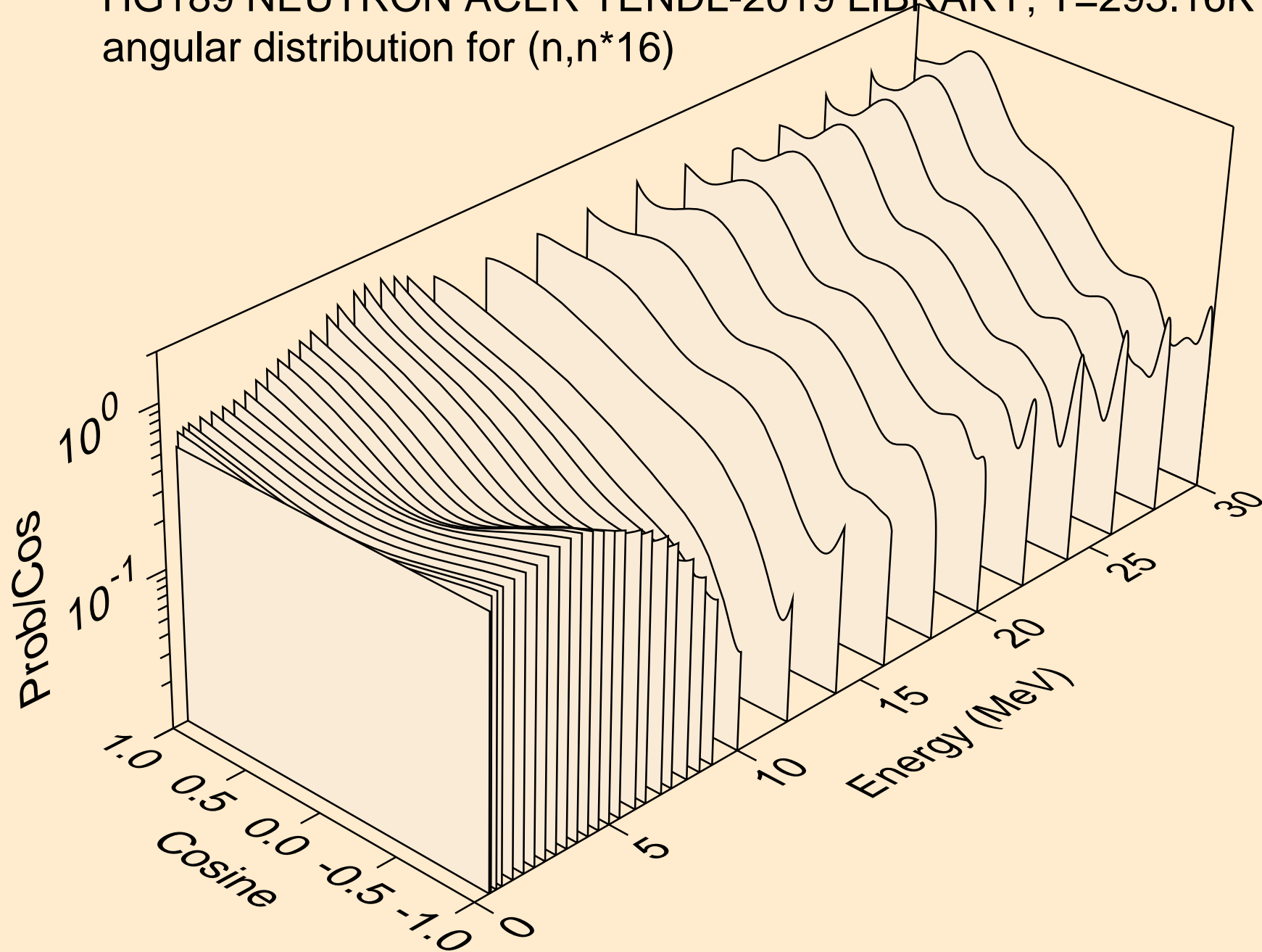
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angular distribution for (n,n*14)



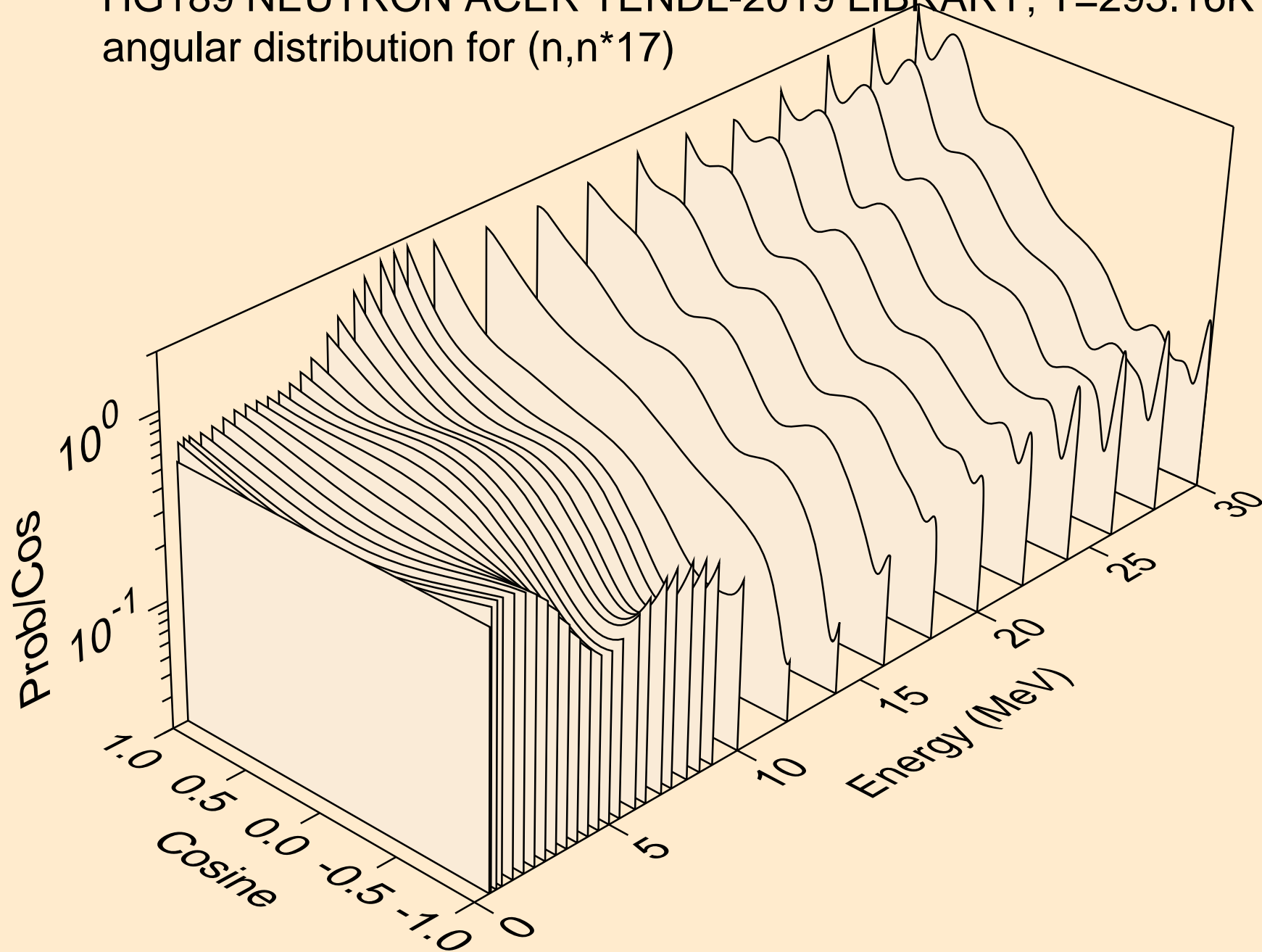
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angular distribution for (n,n*15)



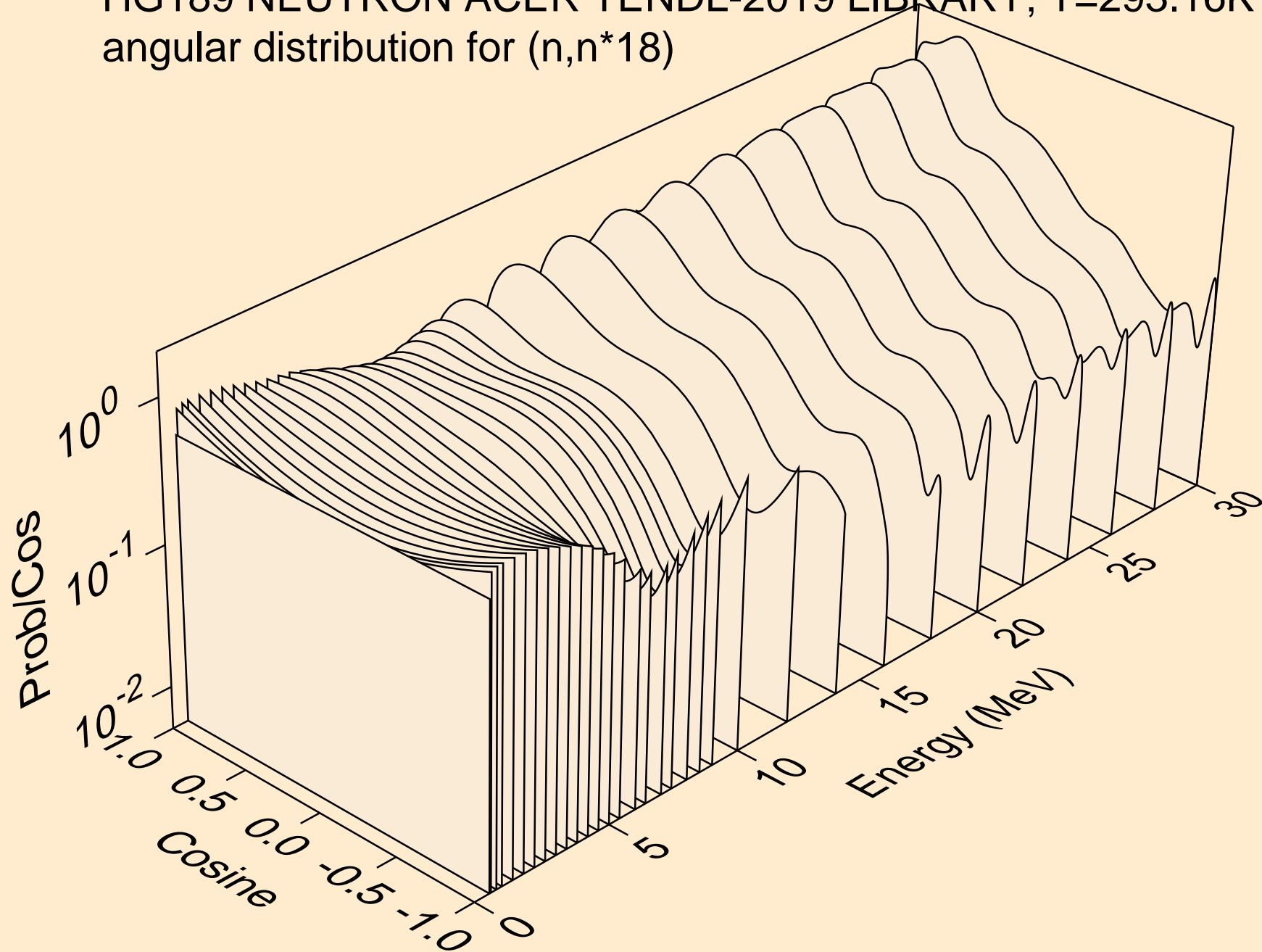
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angular distribution for (n,n*16)



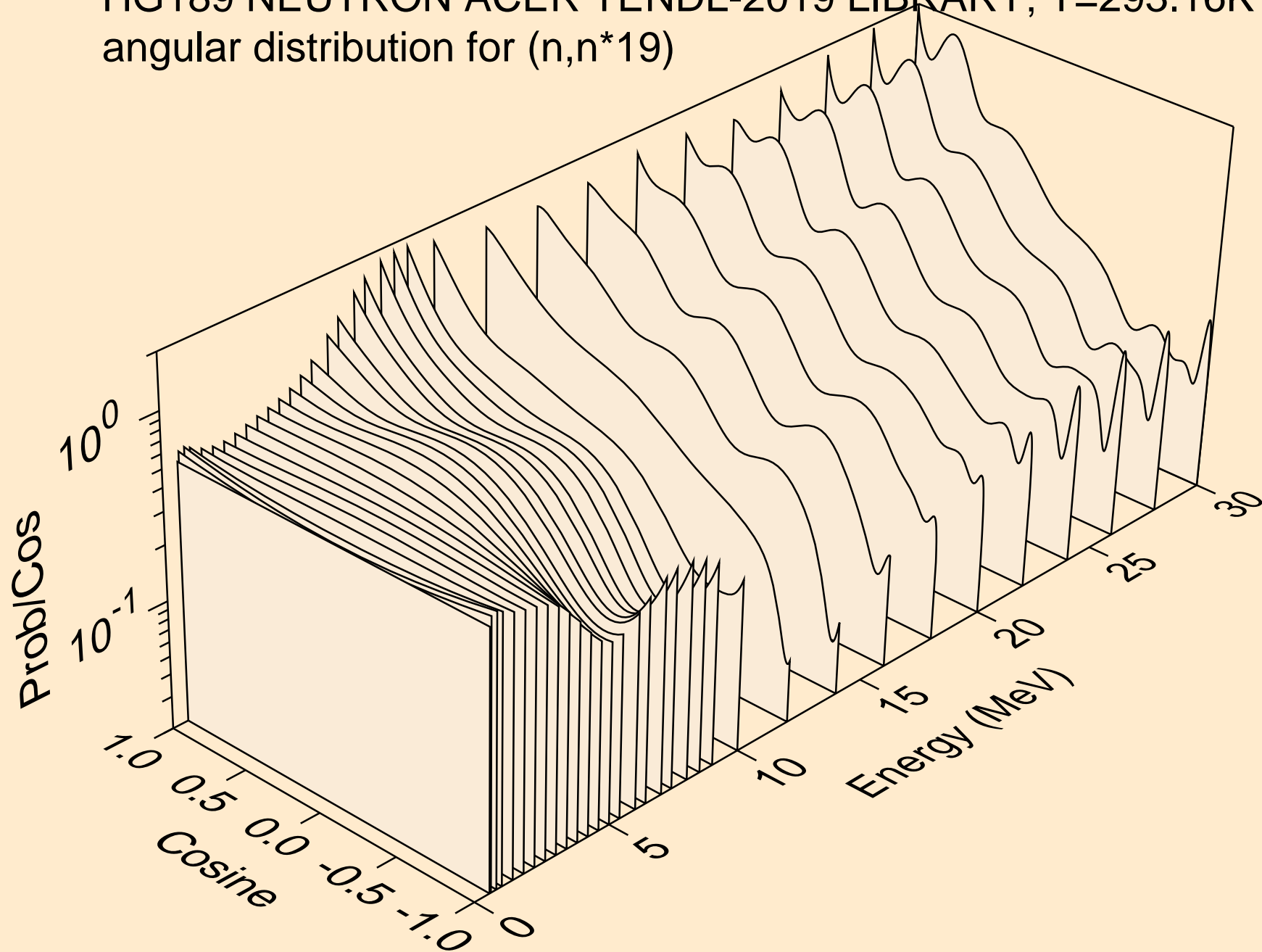
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angular distribution for (n,n*17)



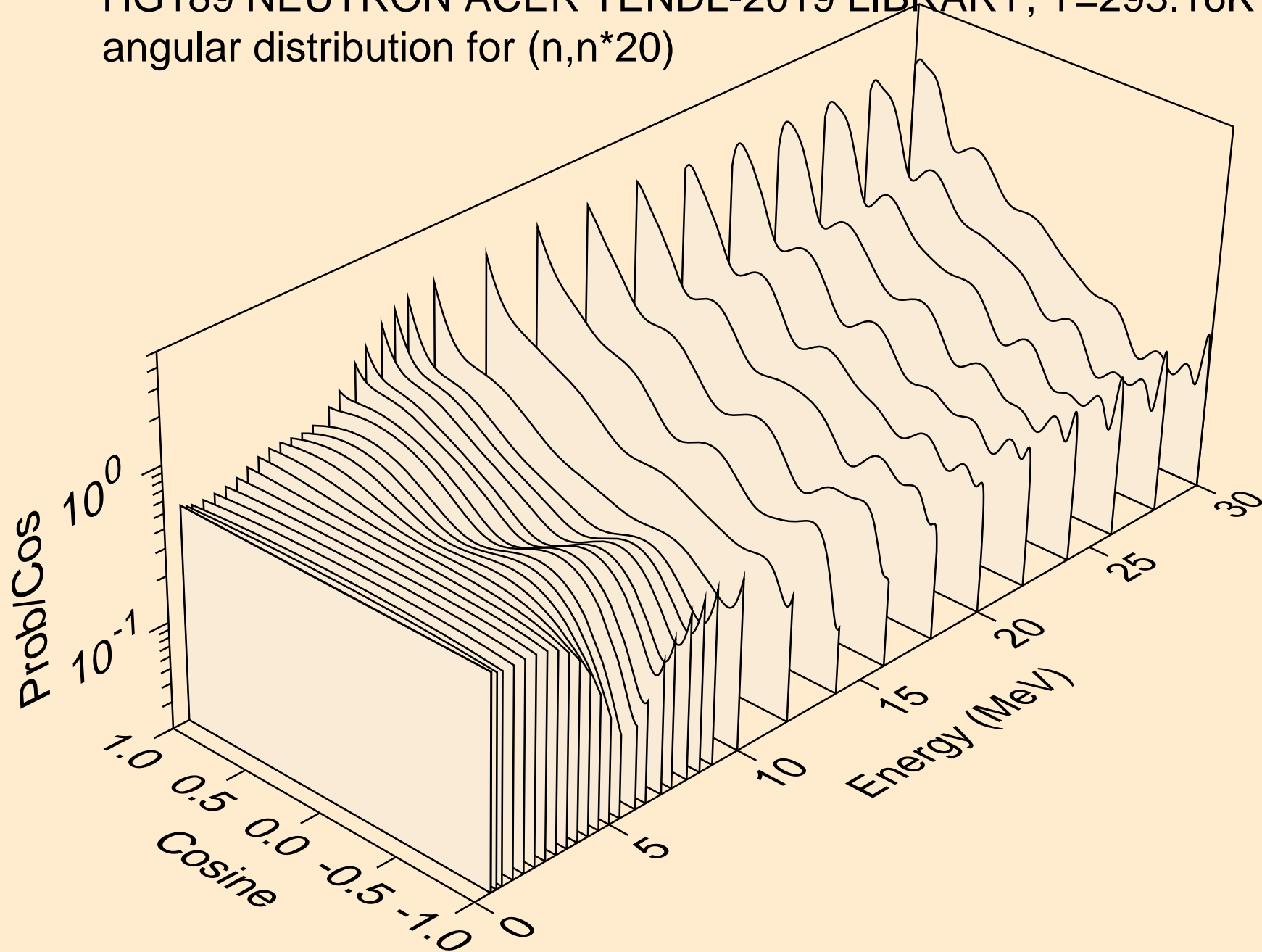
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angular distribution for (n,n*18)



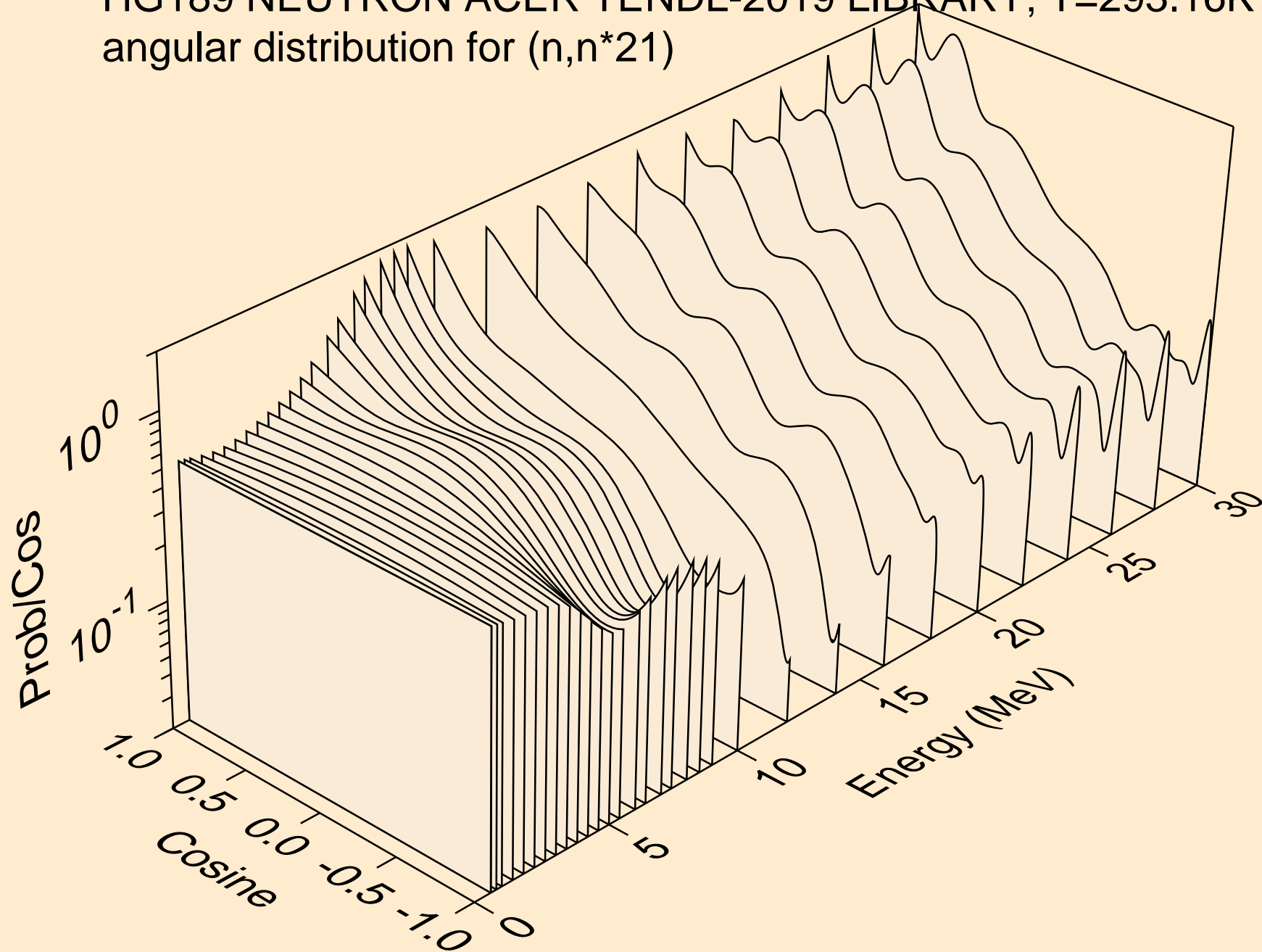
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angular distribution for (n,n*19)



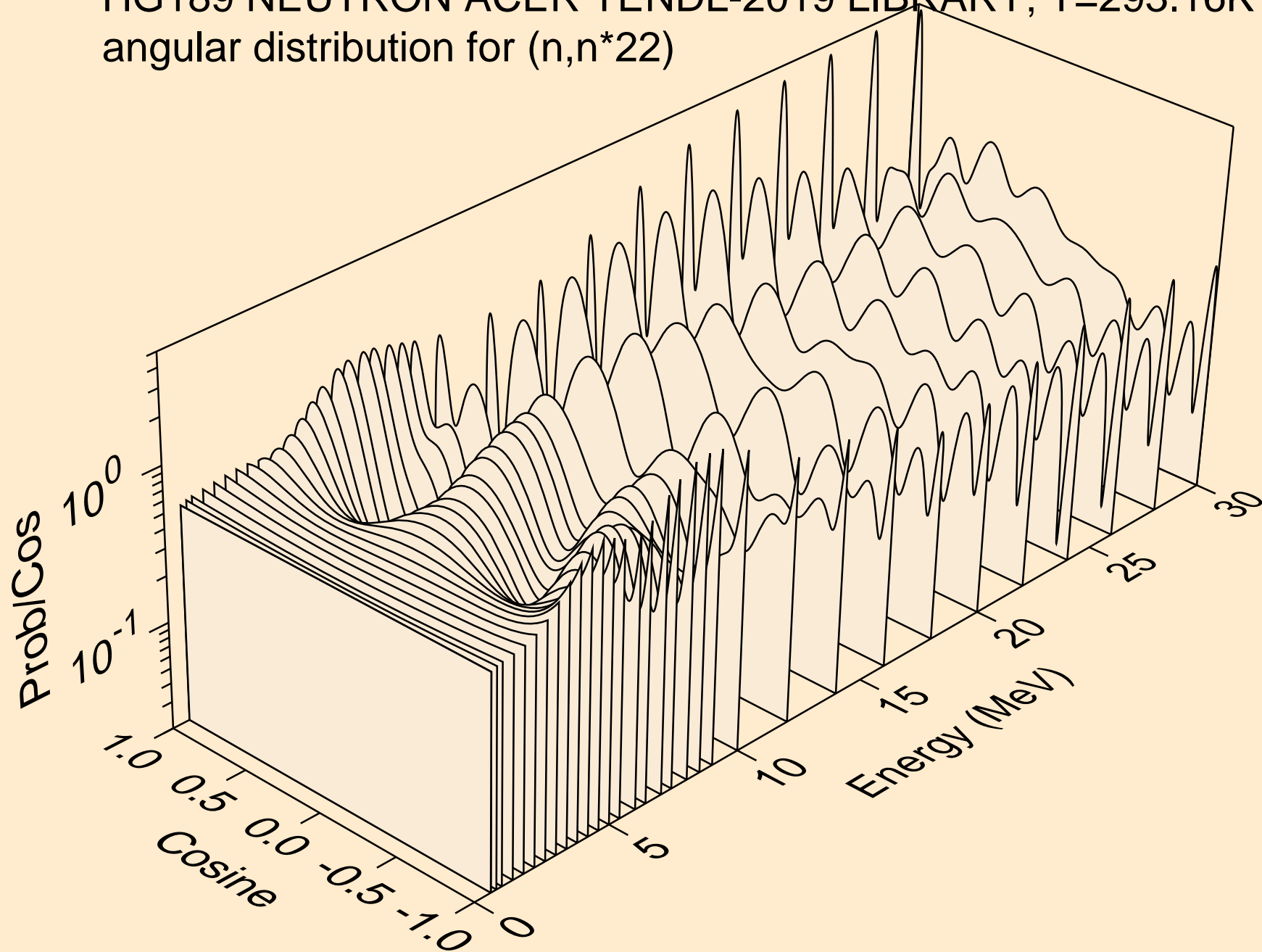
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angular distribution for (n,n*20)



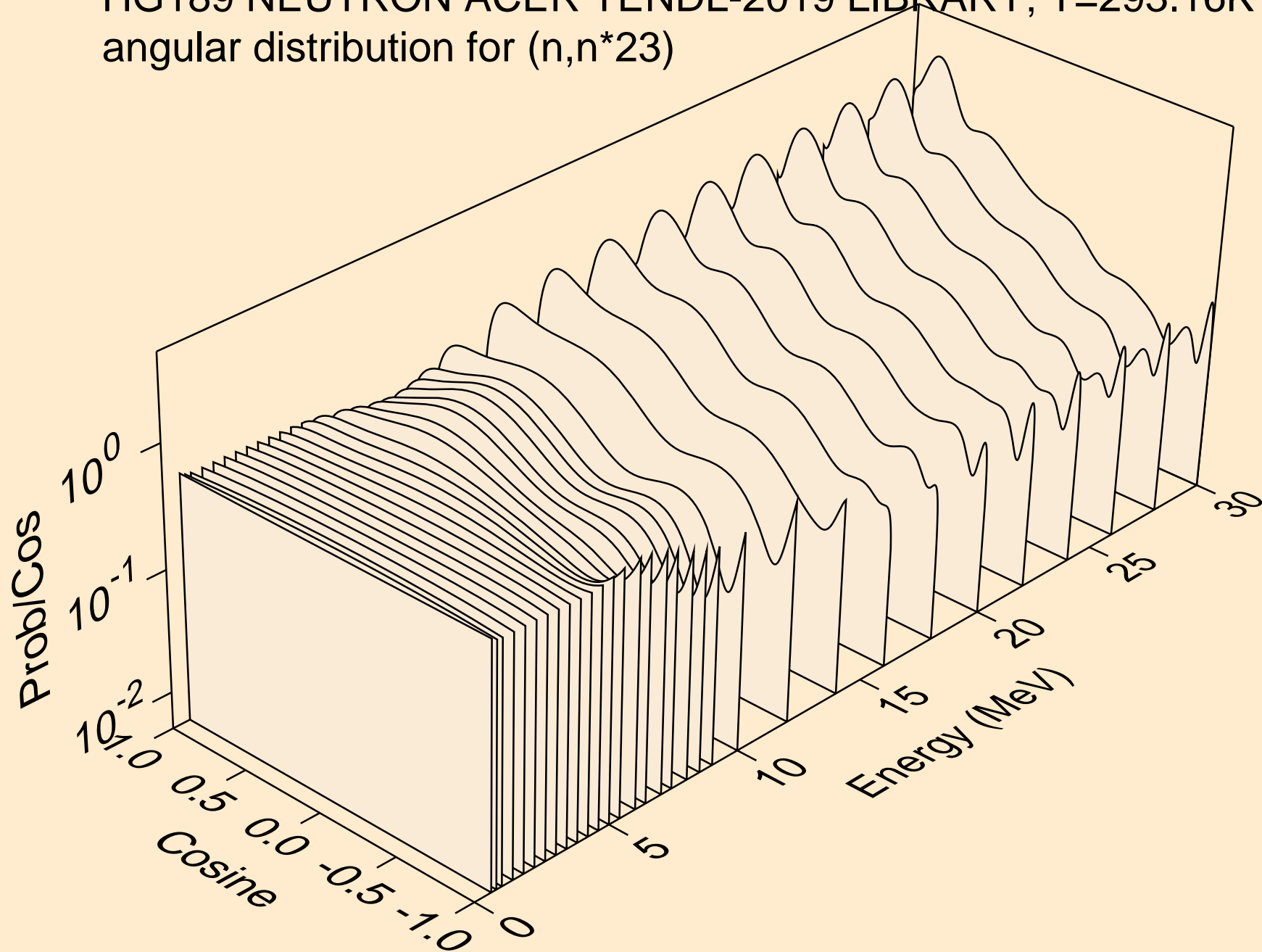
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angular distribution for (n,n*21)



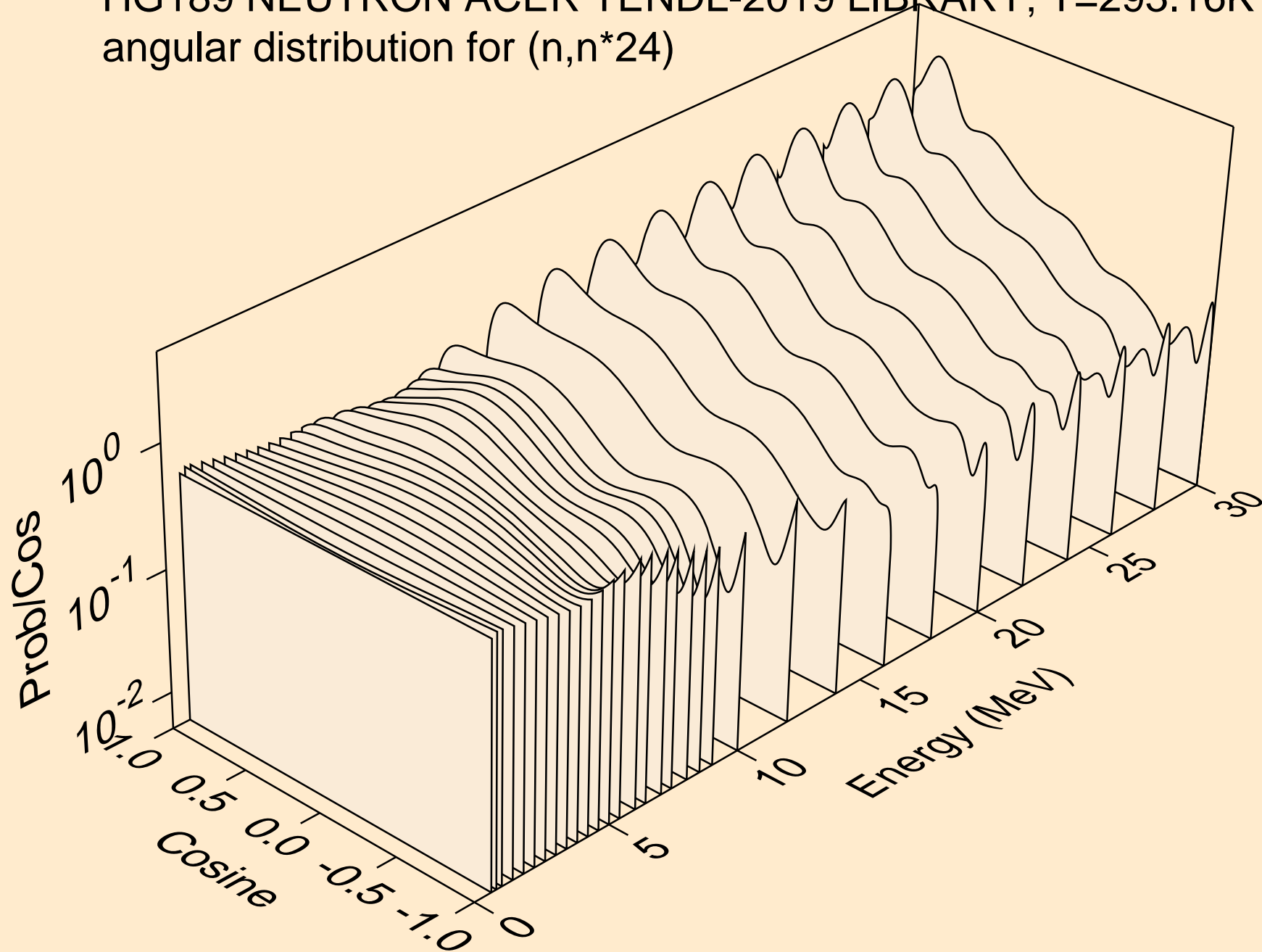
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angular distribution for (n,n*22)



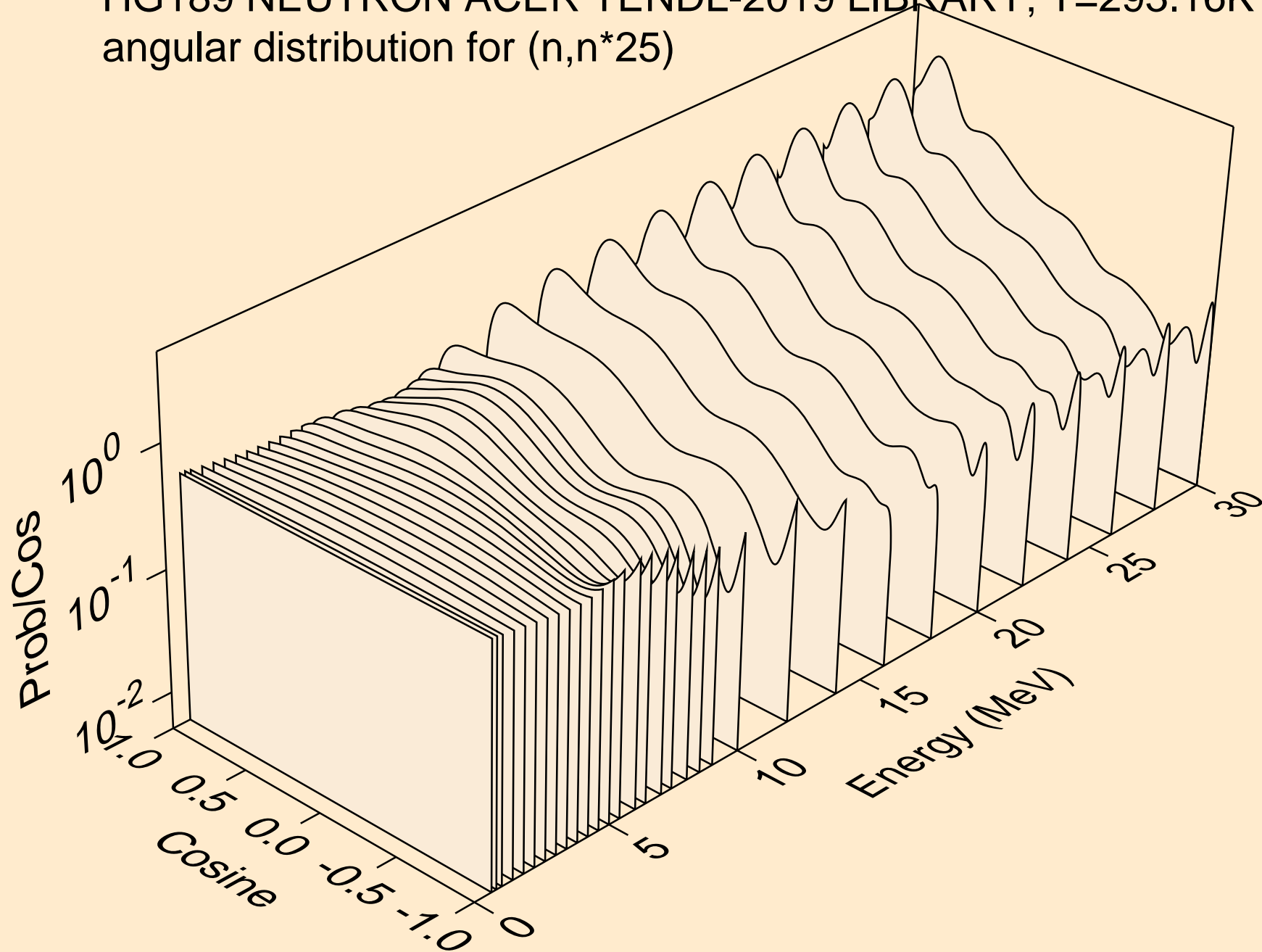
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angular distribution for (n,n*23)



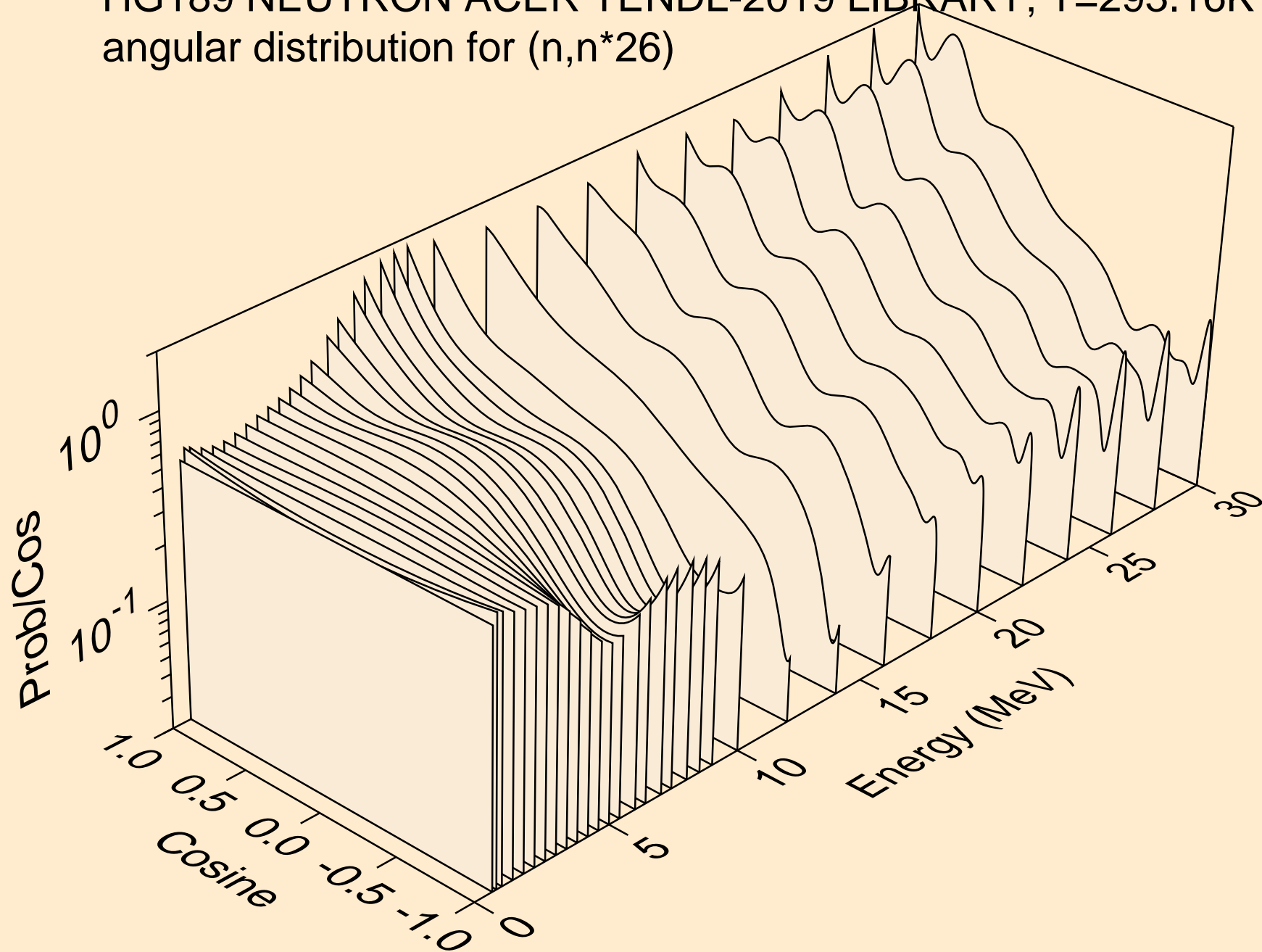
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*24)



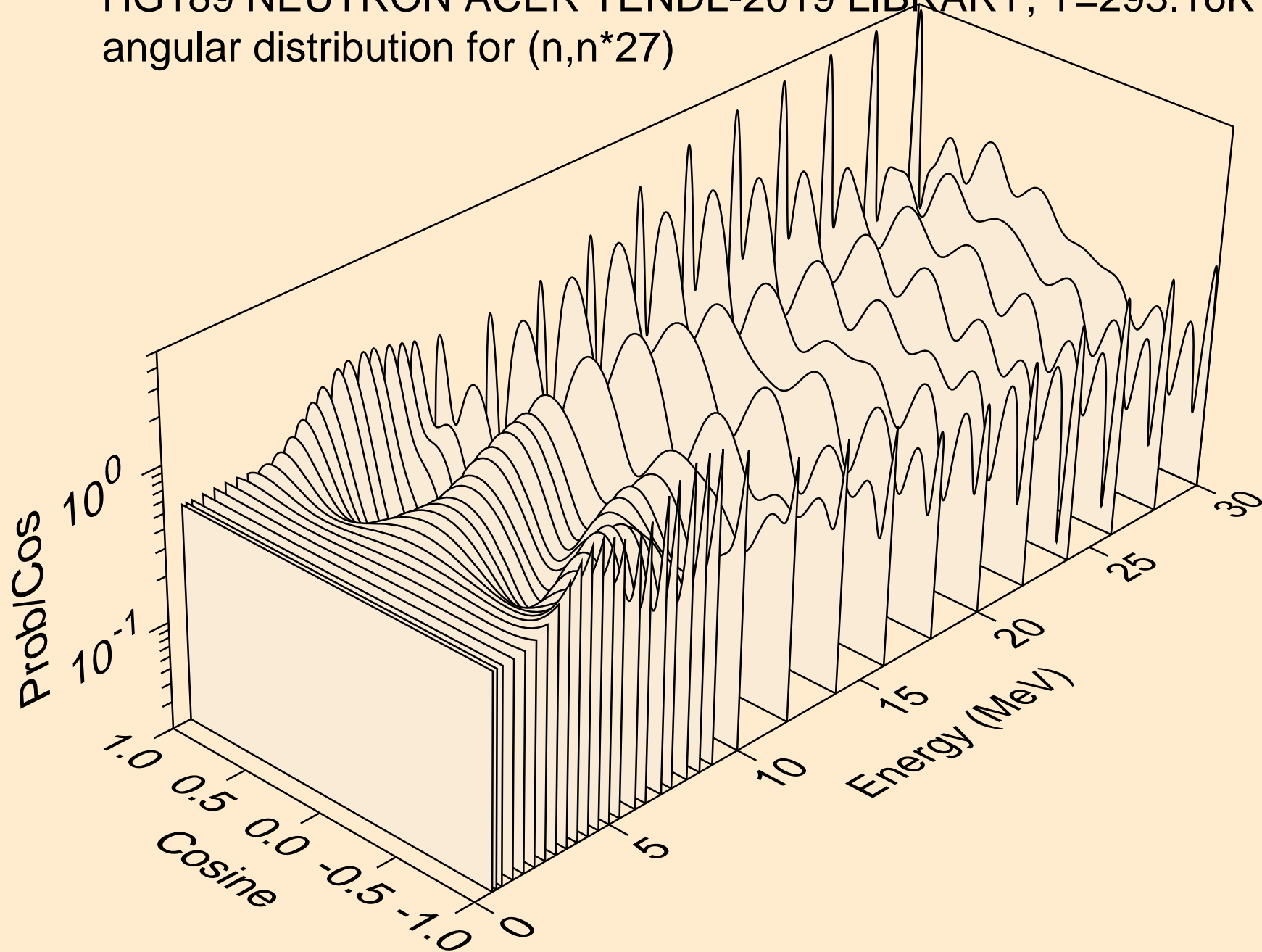
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*25)



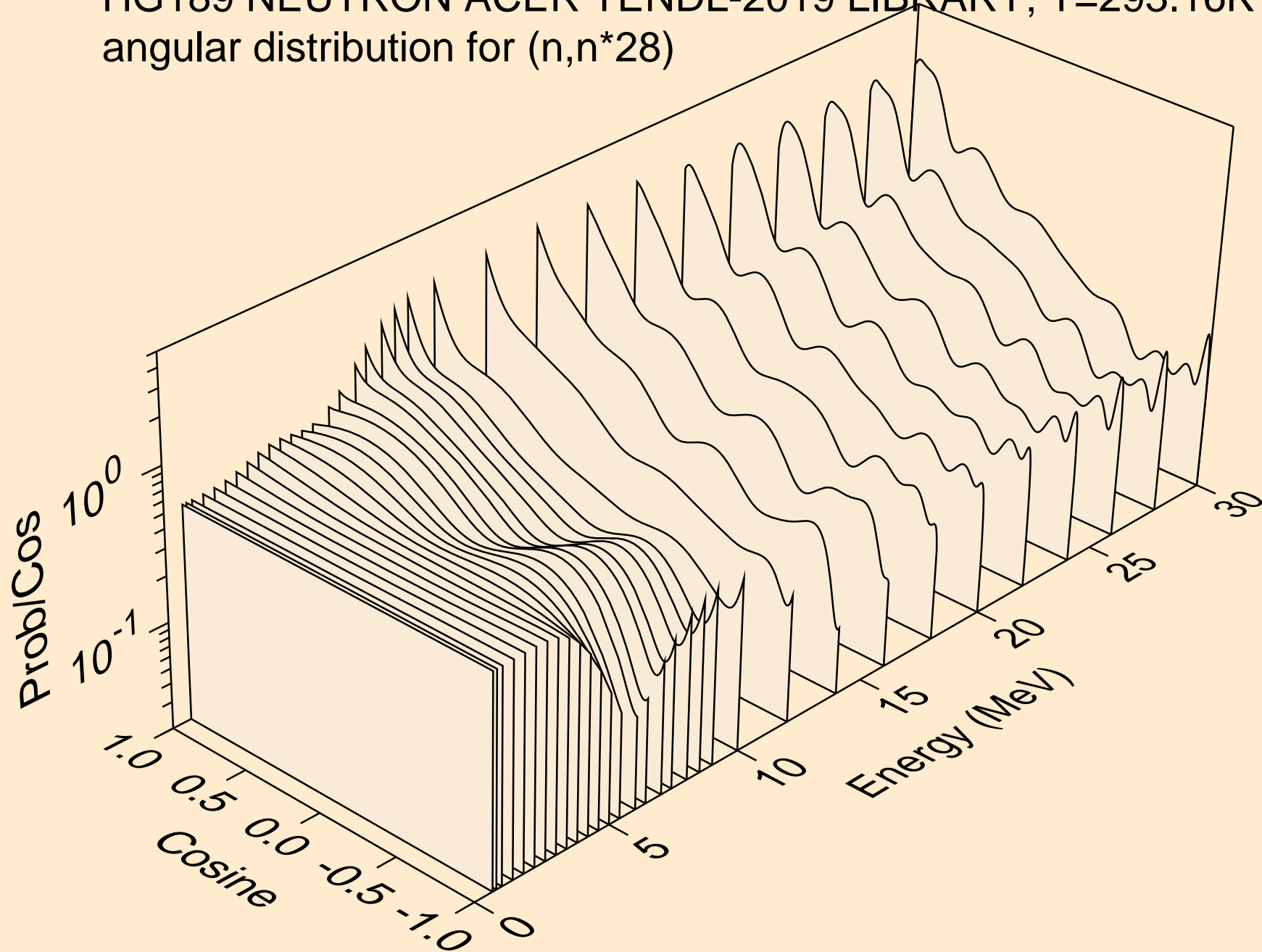
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*26)



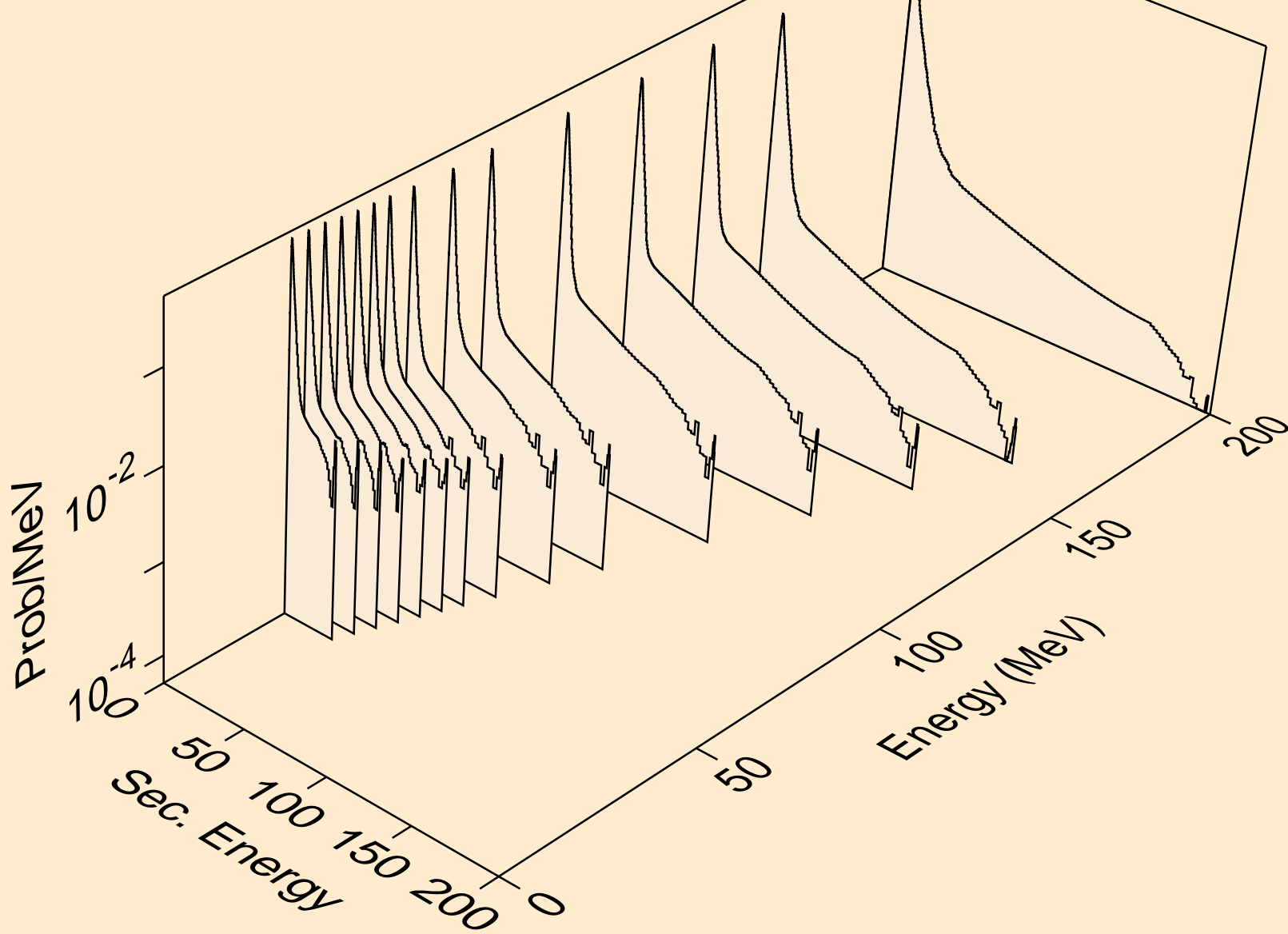
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angular distribution for (n,n*27)



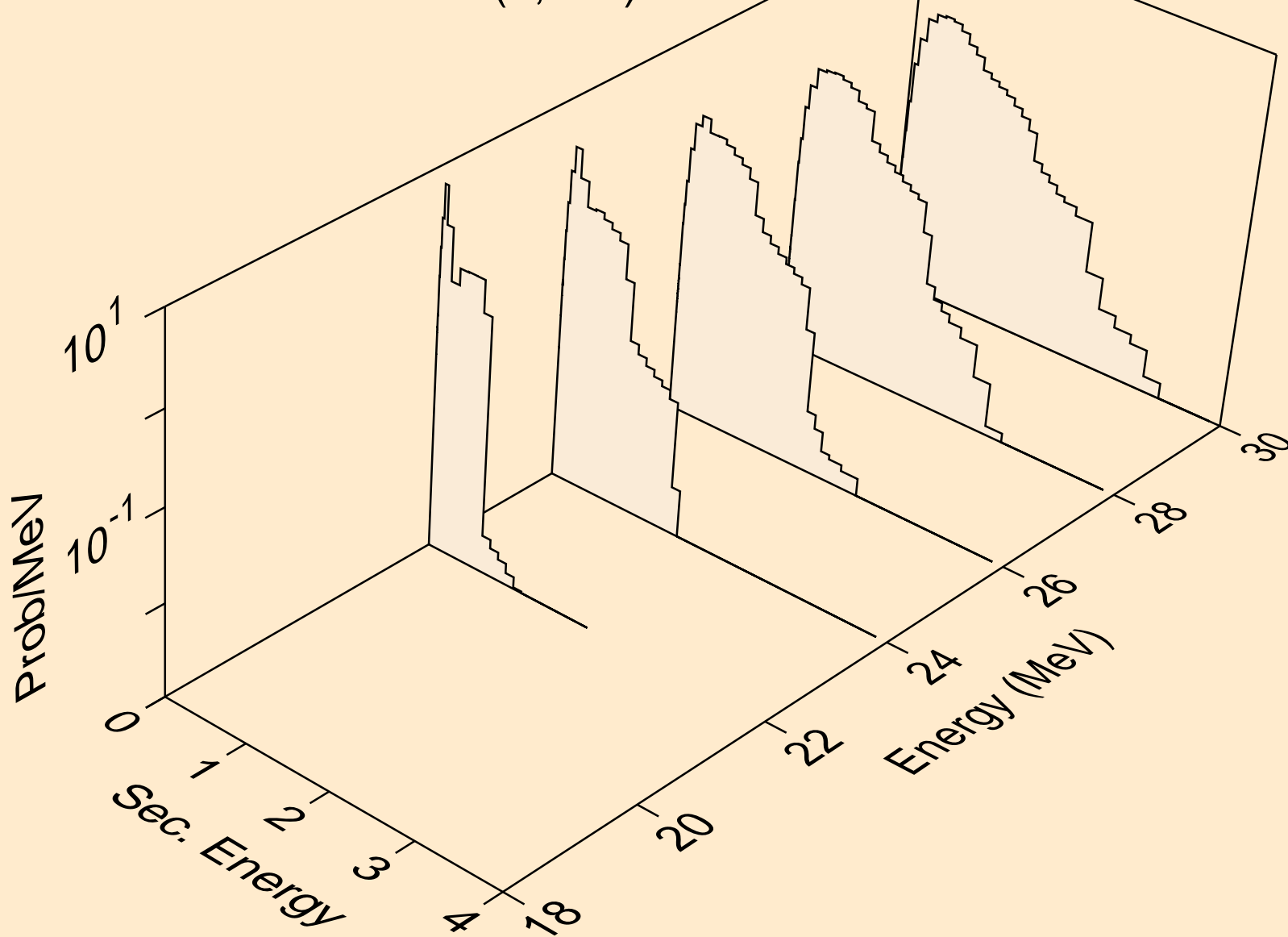
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*28)



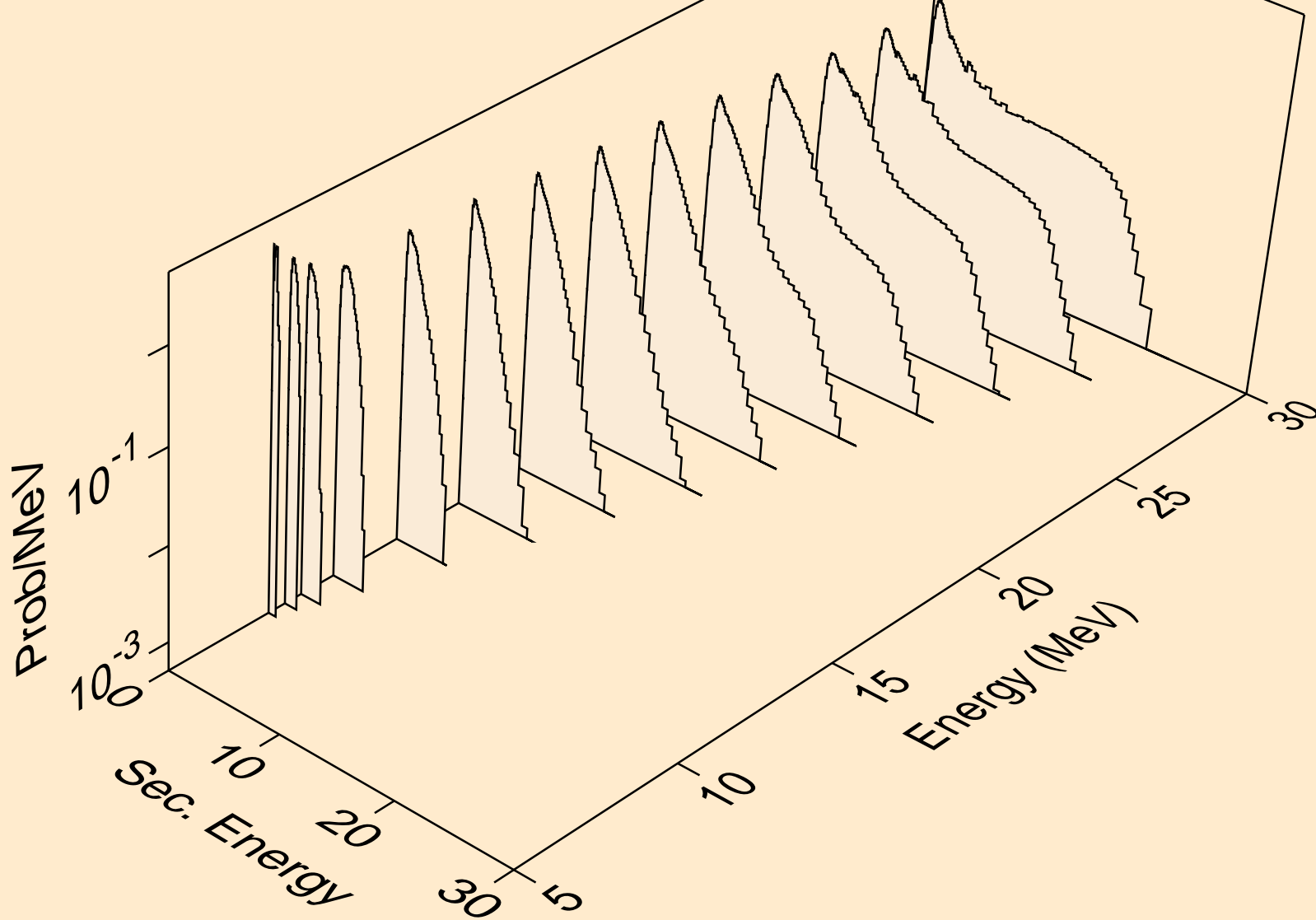
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,x)



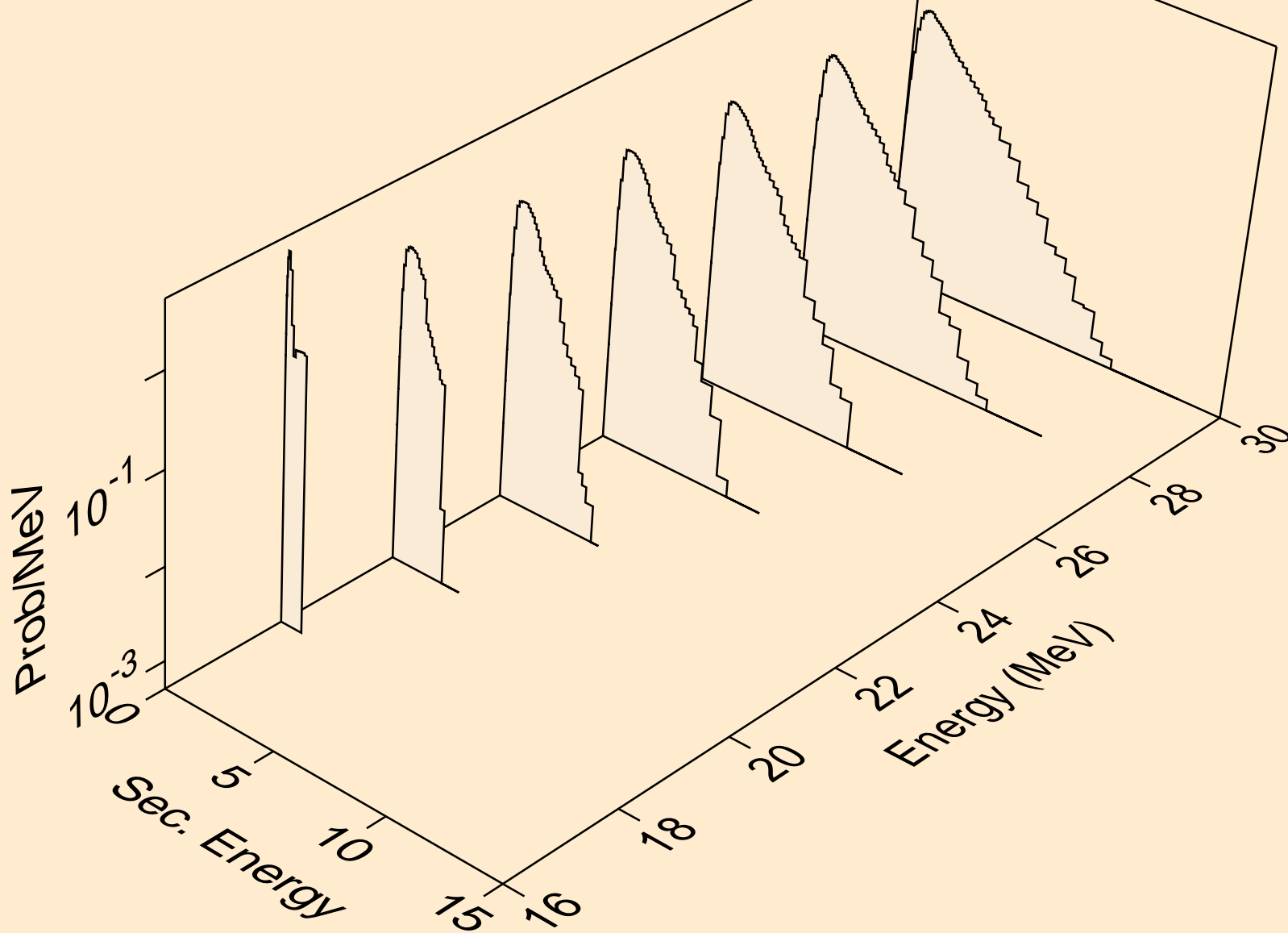
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,2nd)



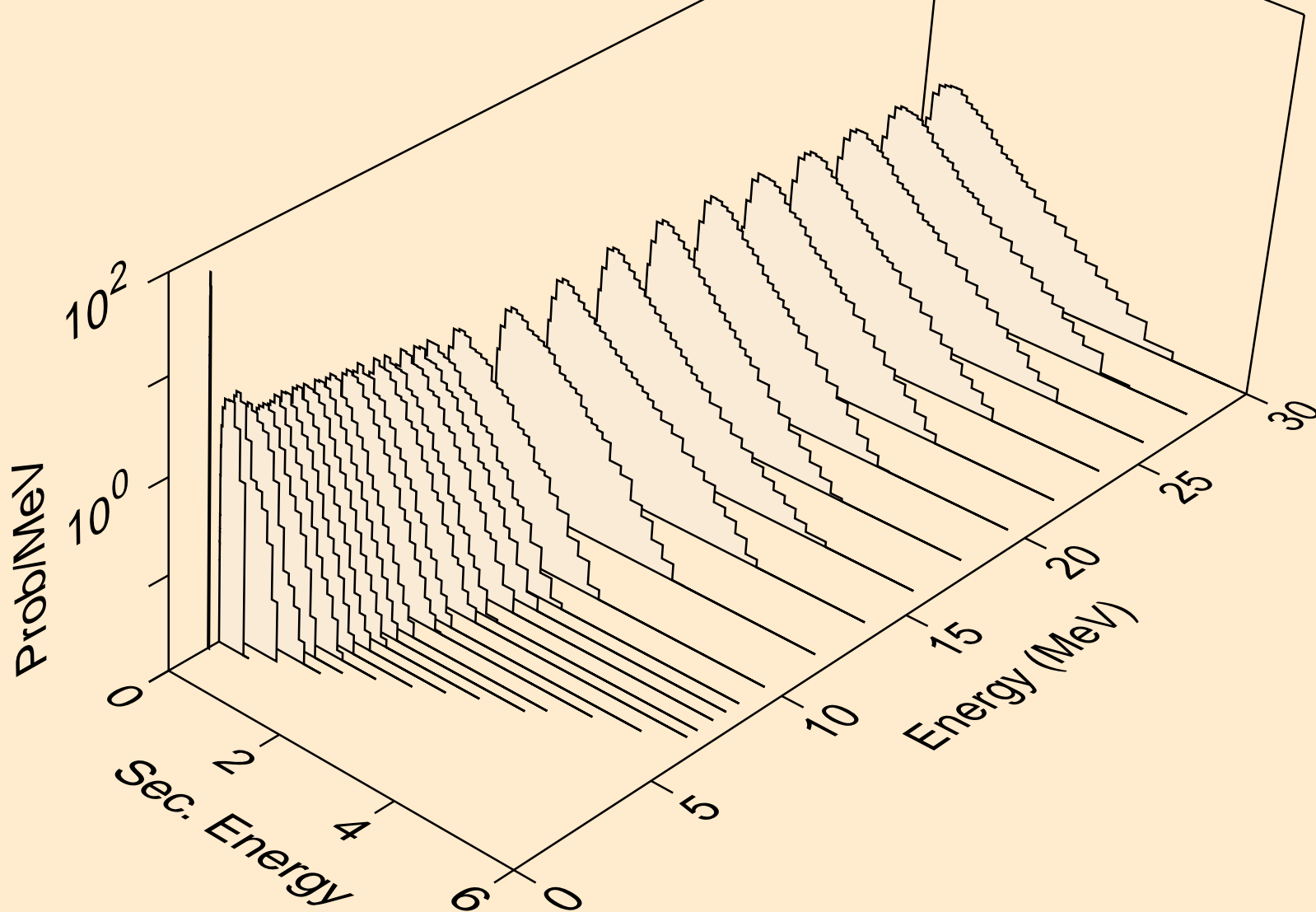
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,2n)



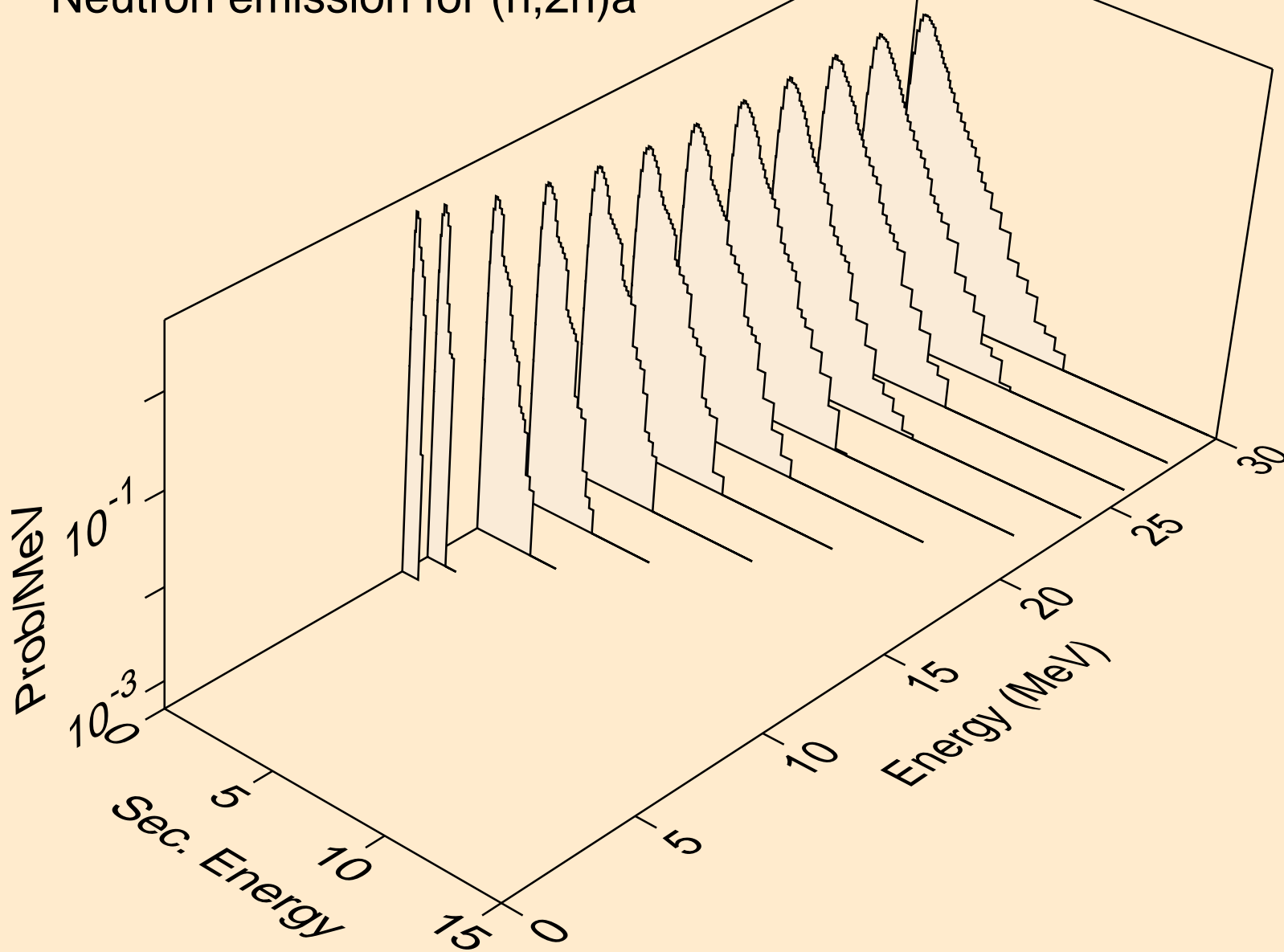
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,3n)



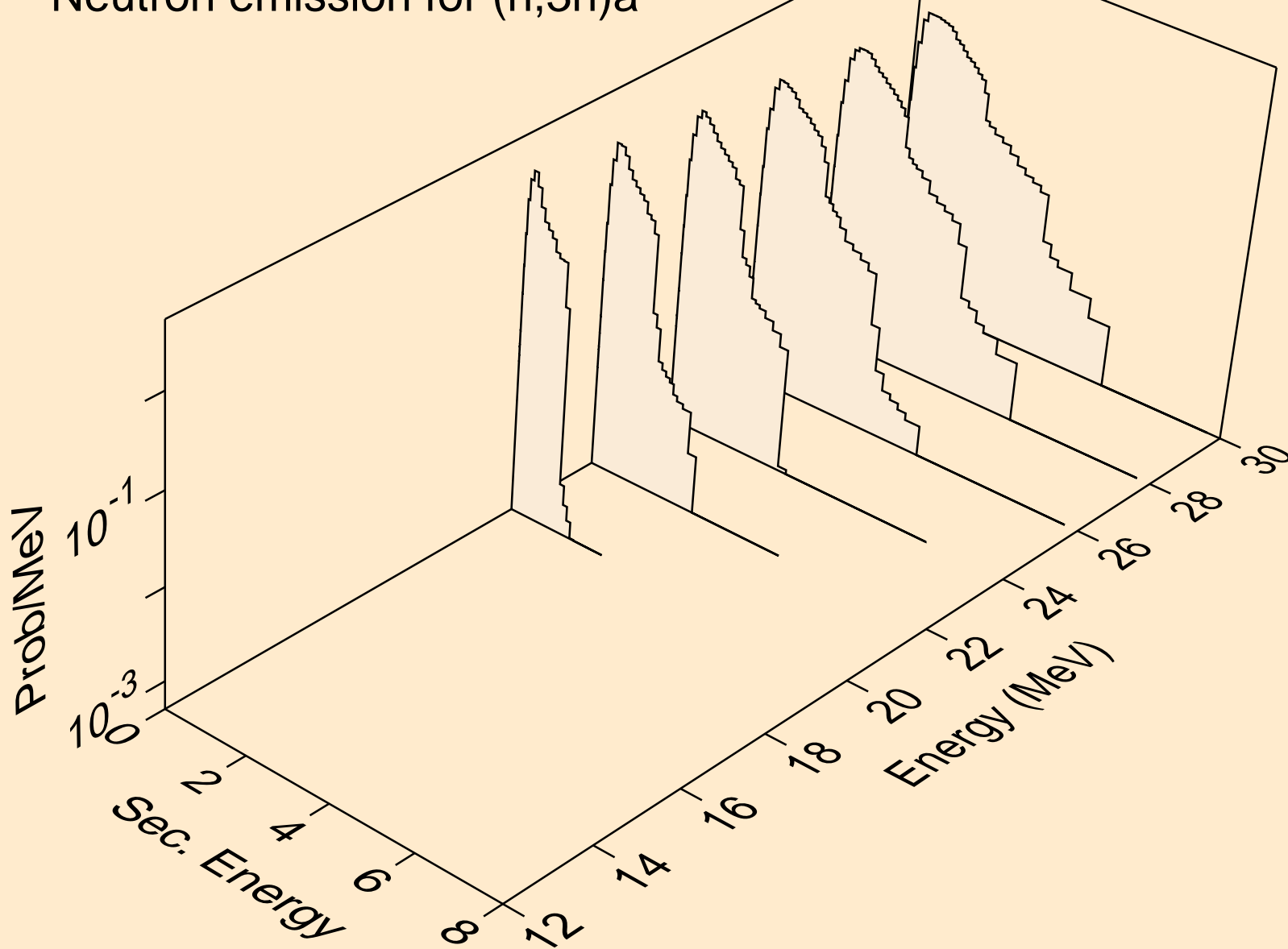
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,n*)a



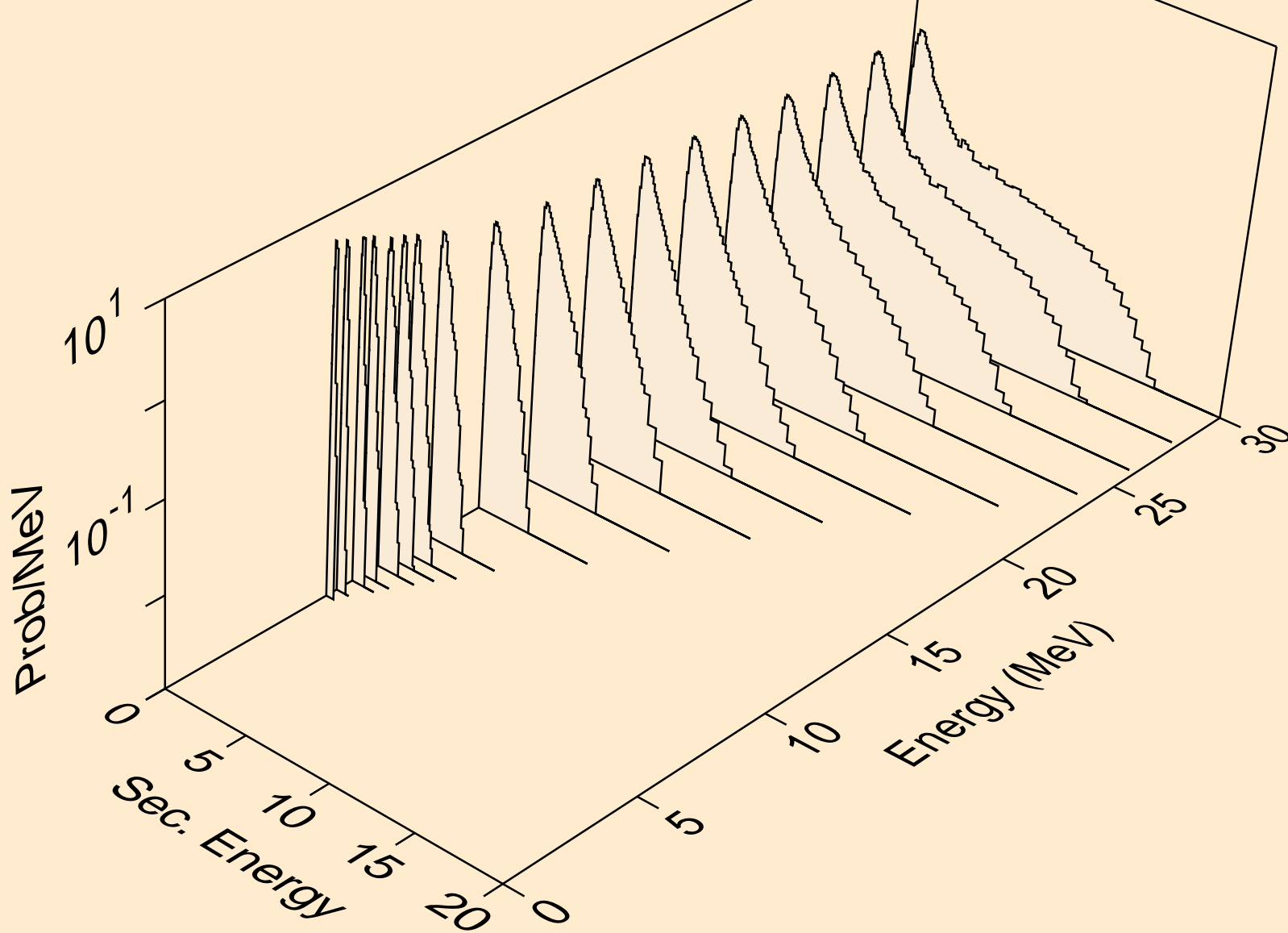
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,2n)a



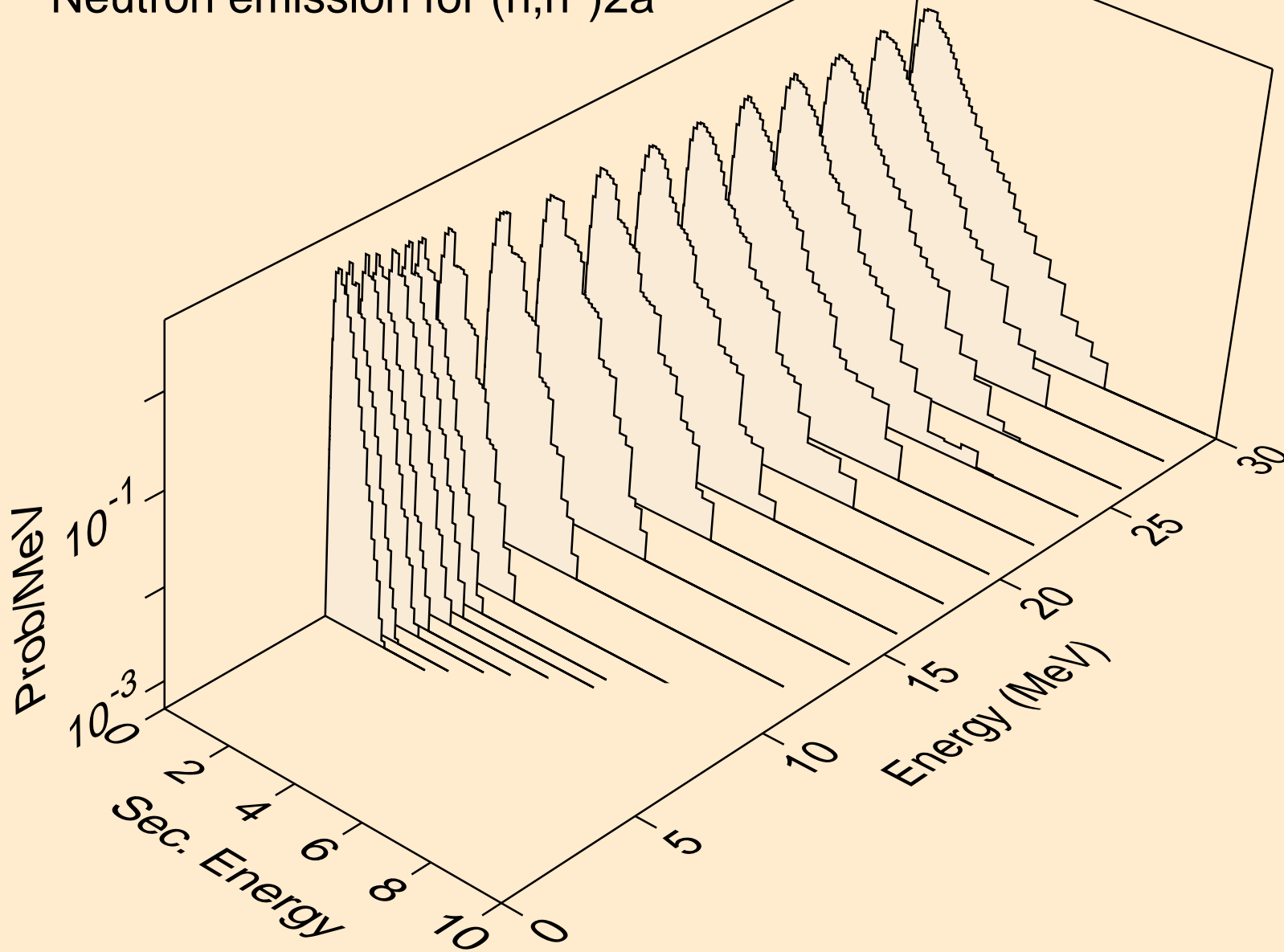
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,3n)a



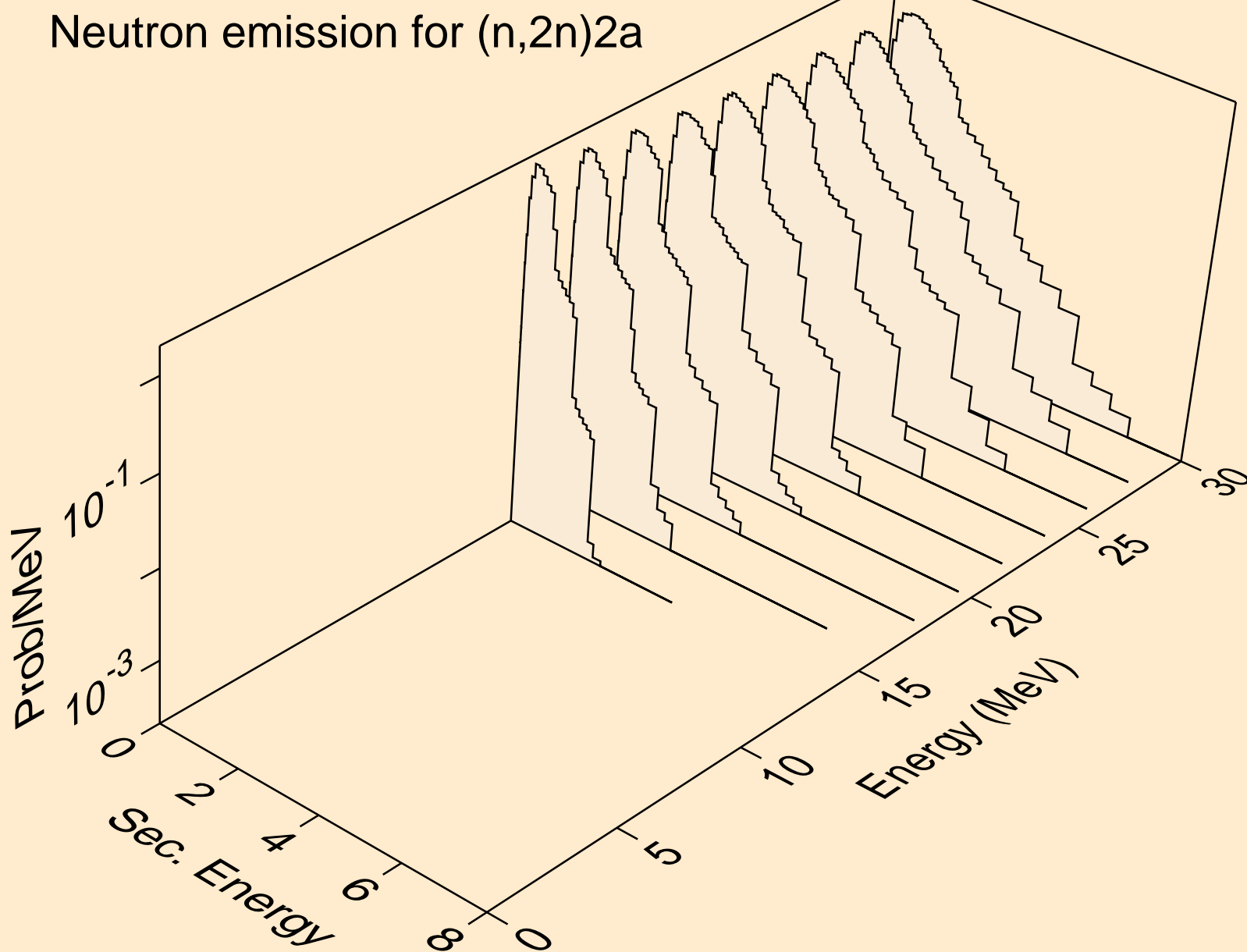
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,n*)p



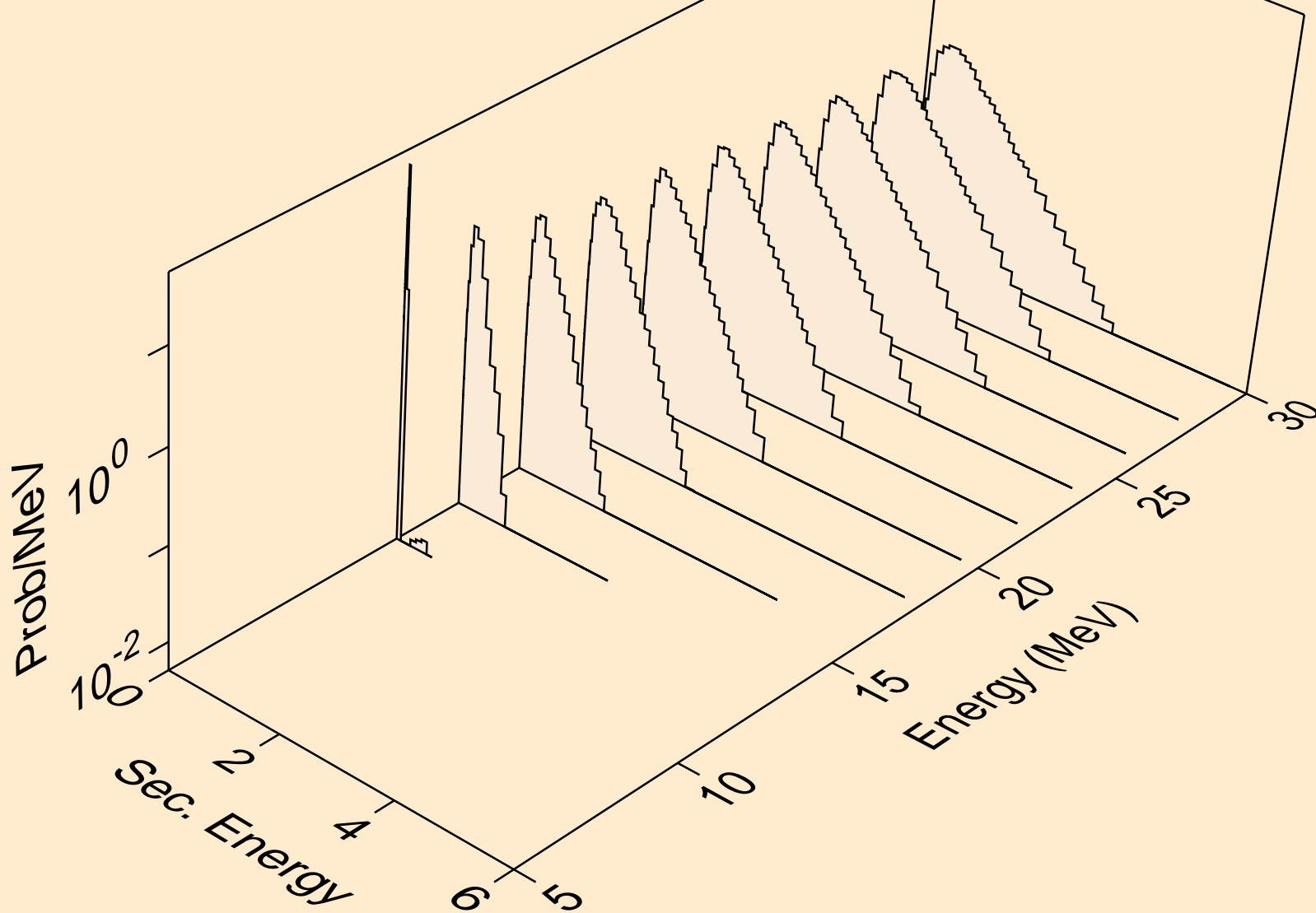
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,n*)2a



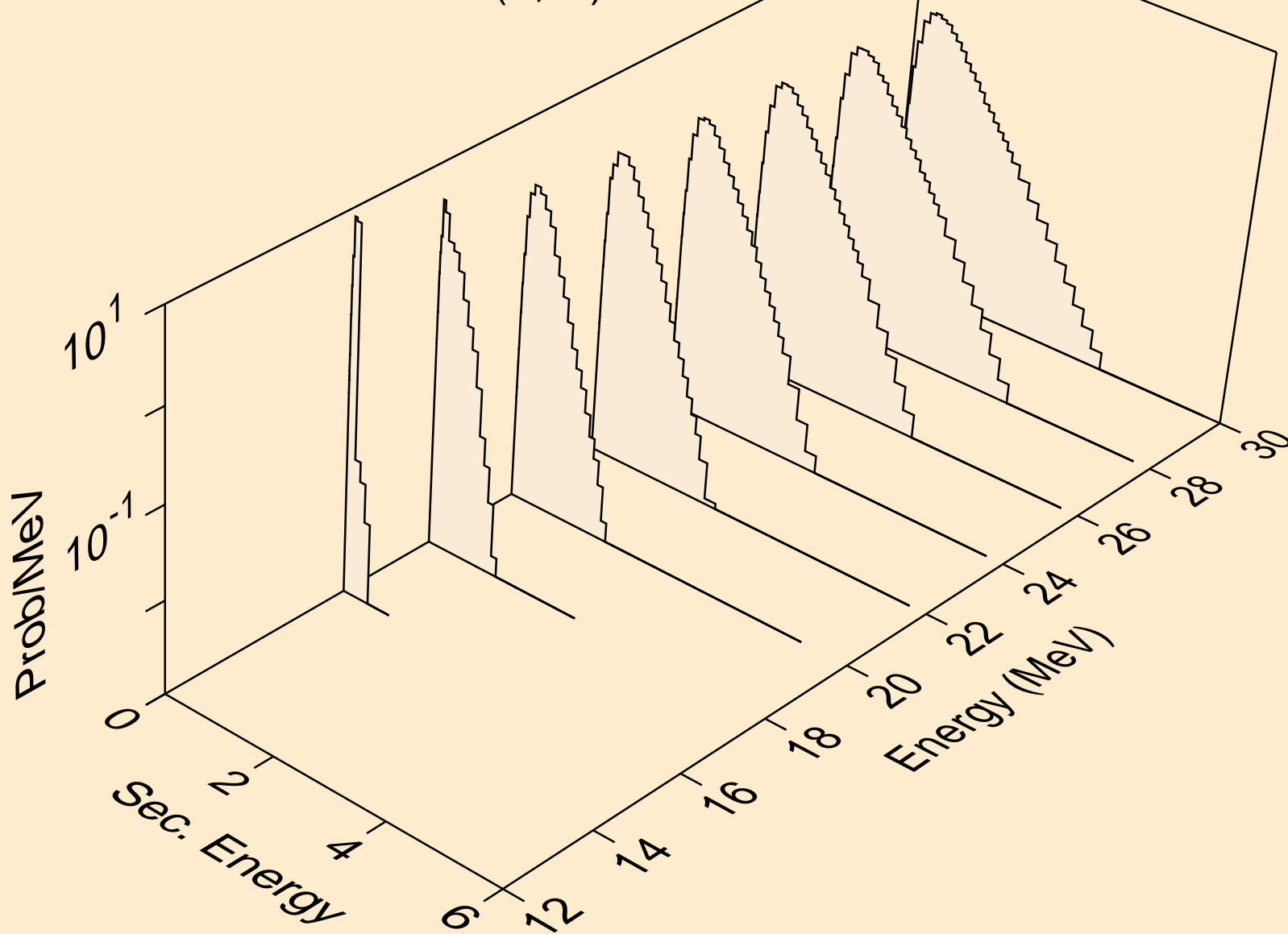
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,2n)2a



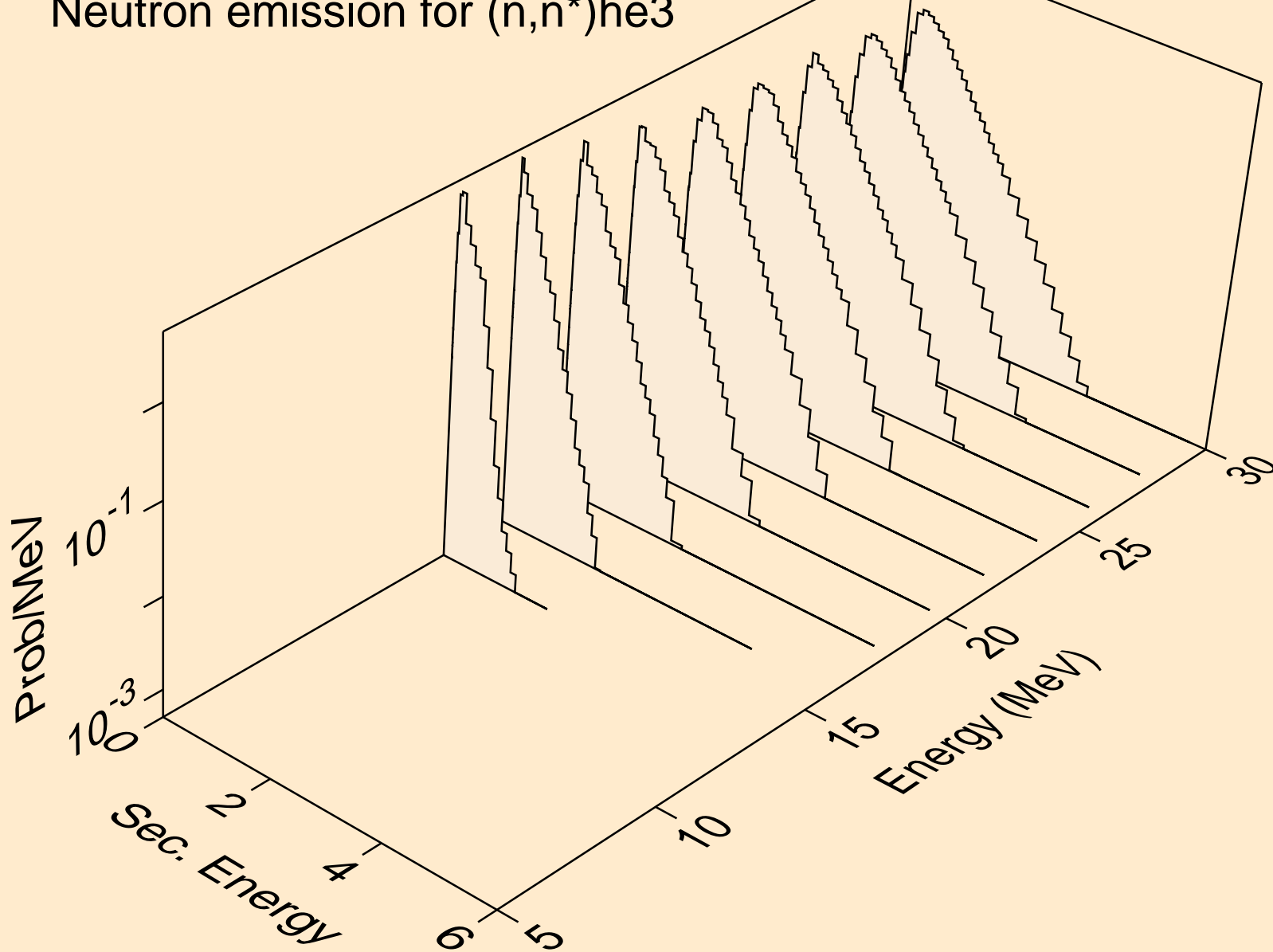
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,n*)d



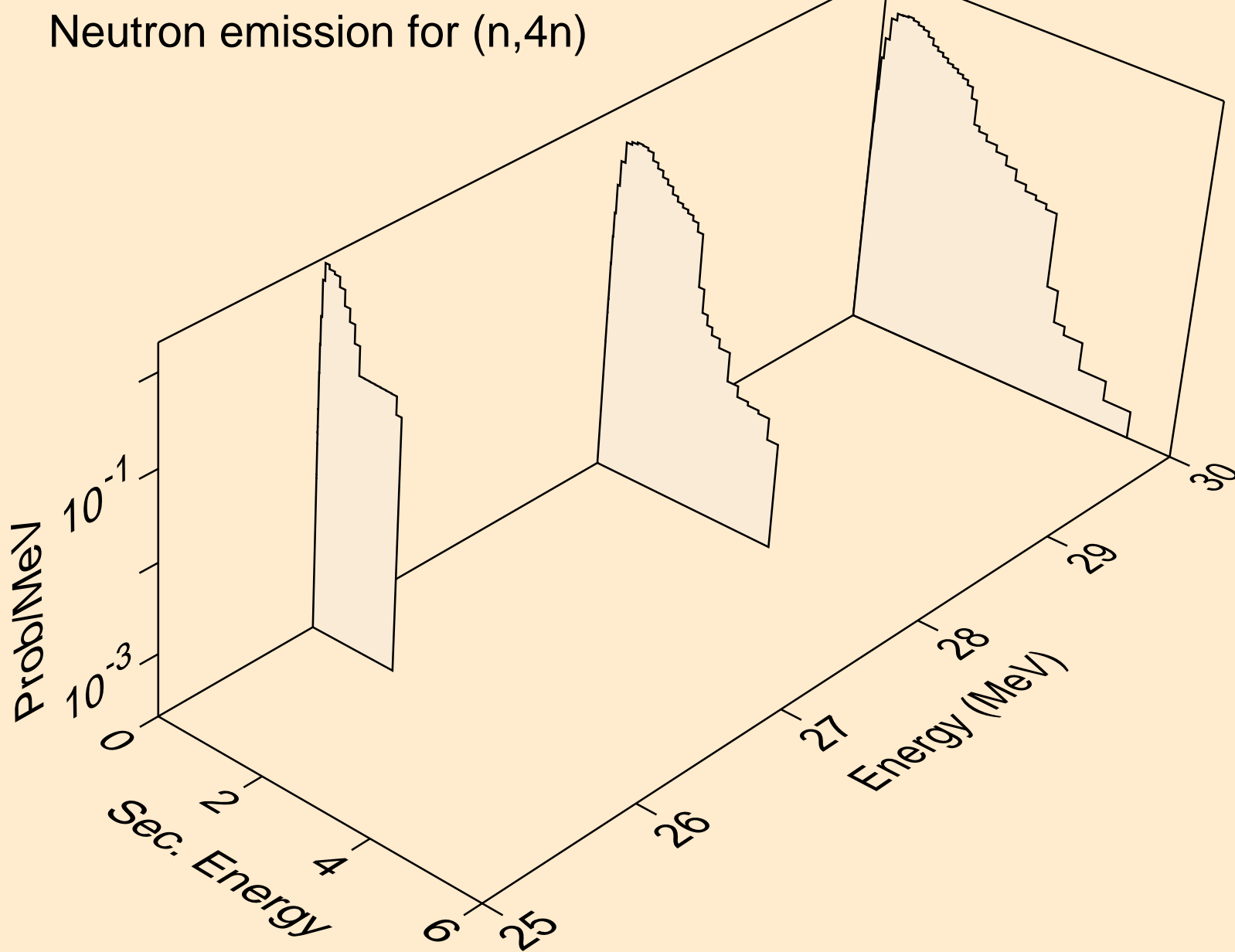
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,n*)t



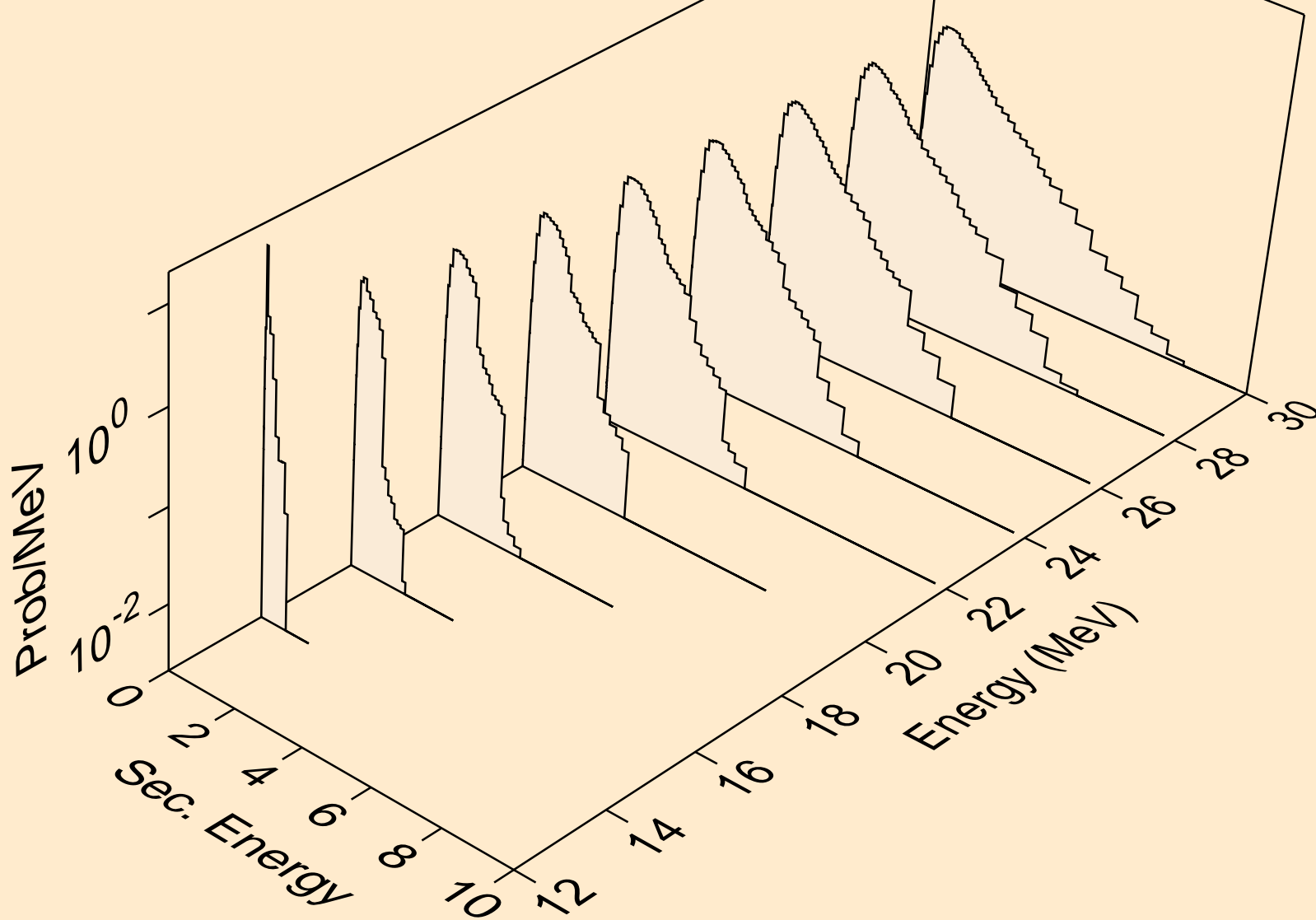
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,n*)he3



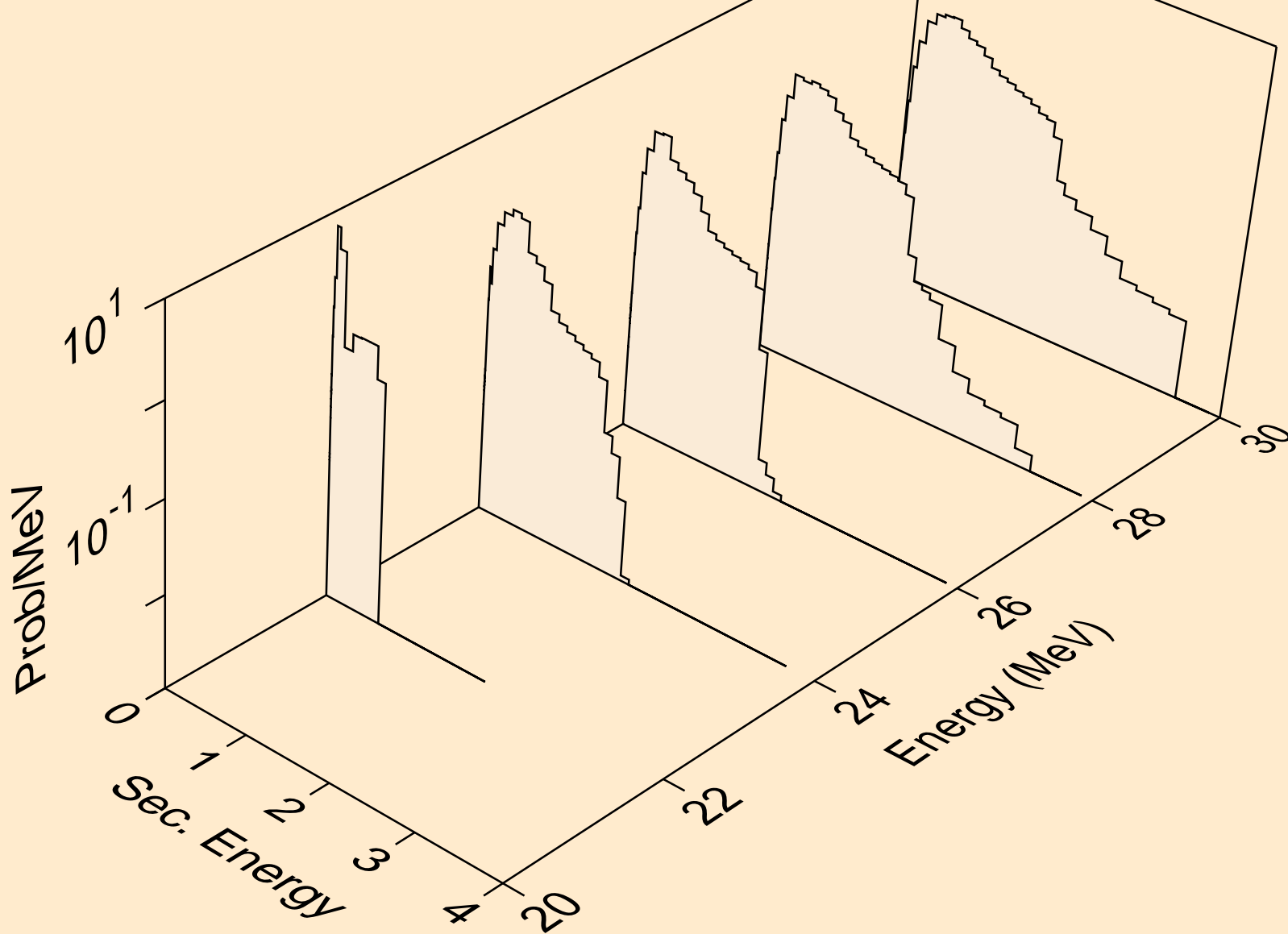
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,4n)



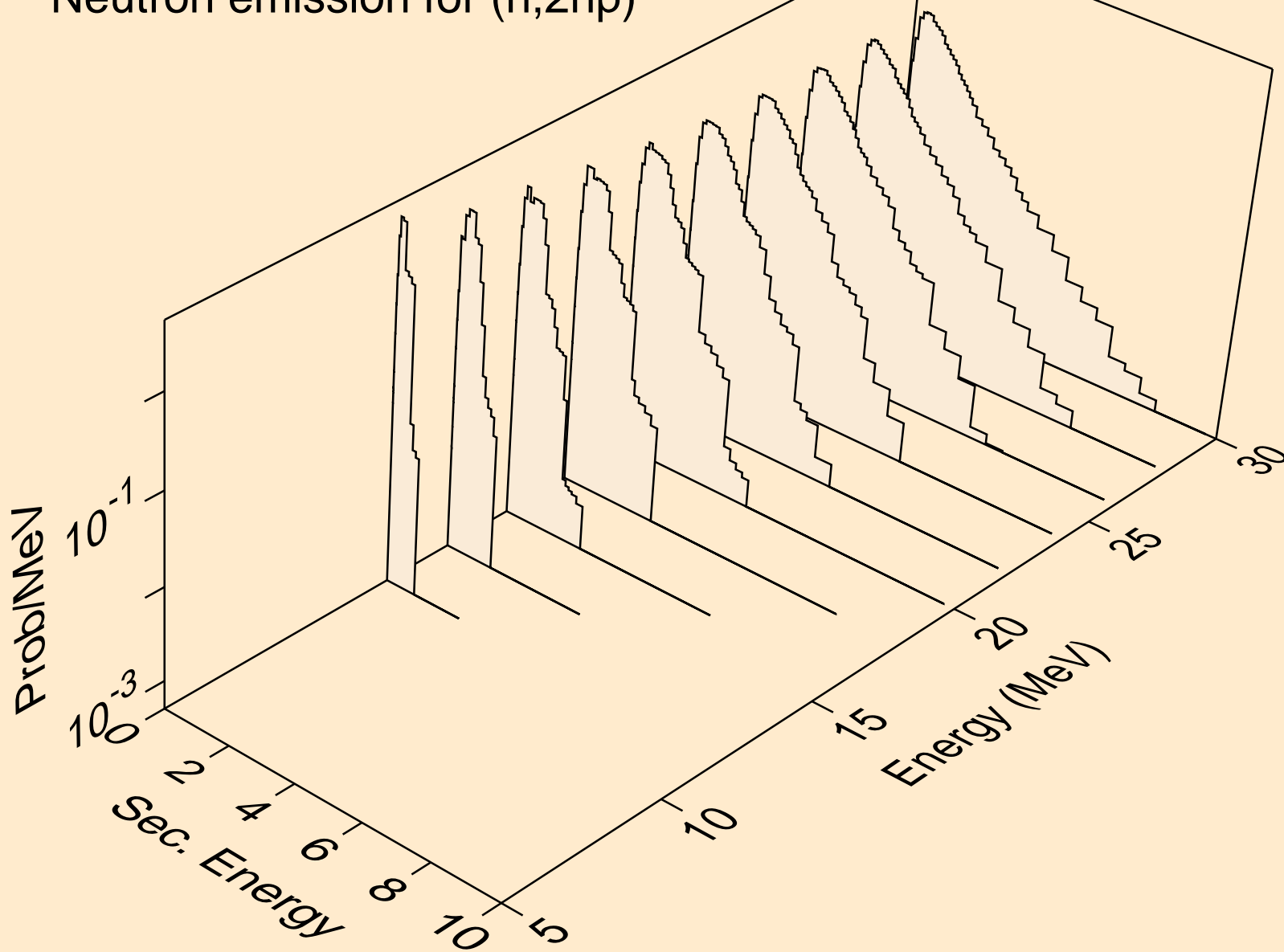
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,2np)



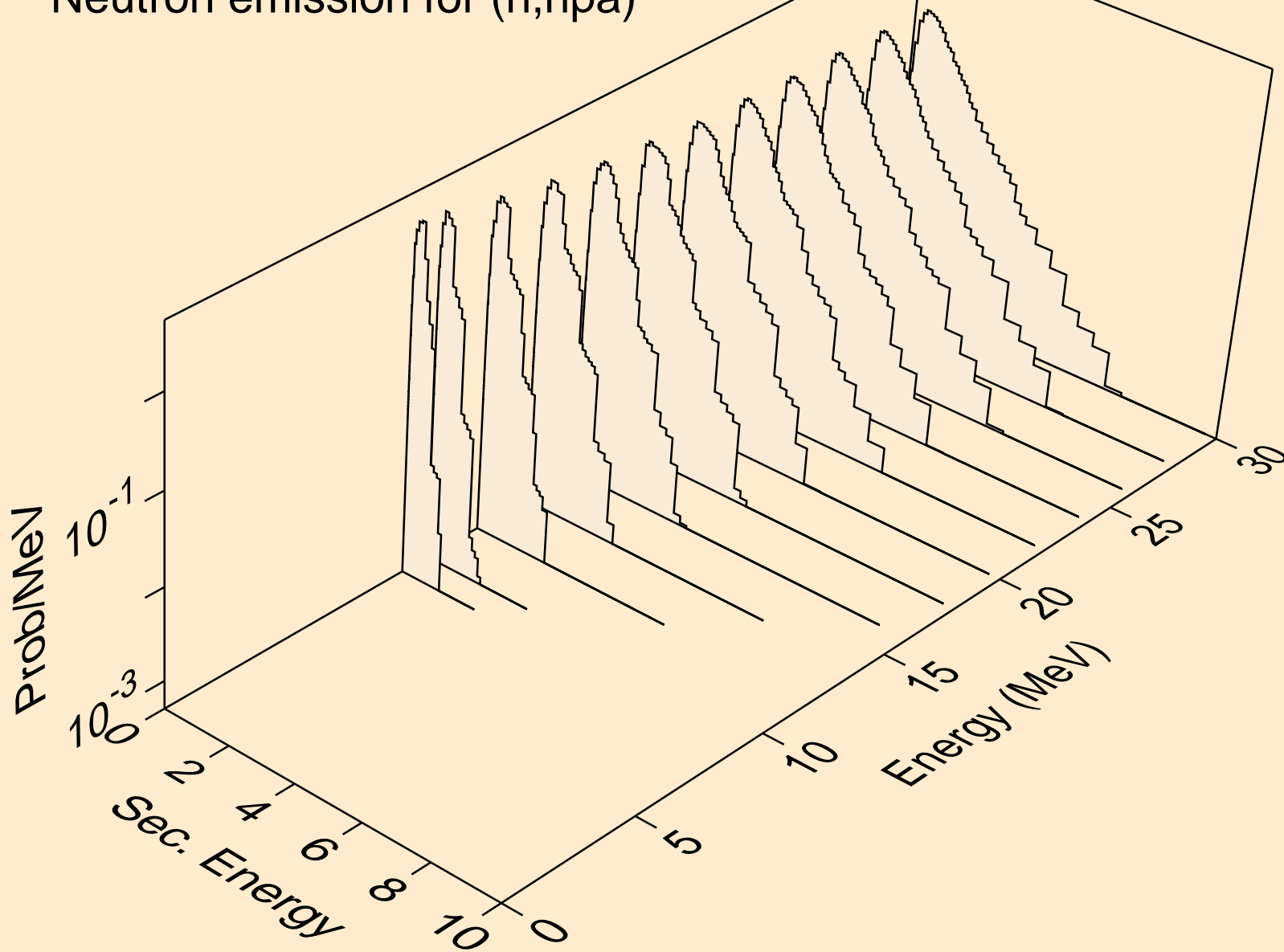
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,3np)



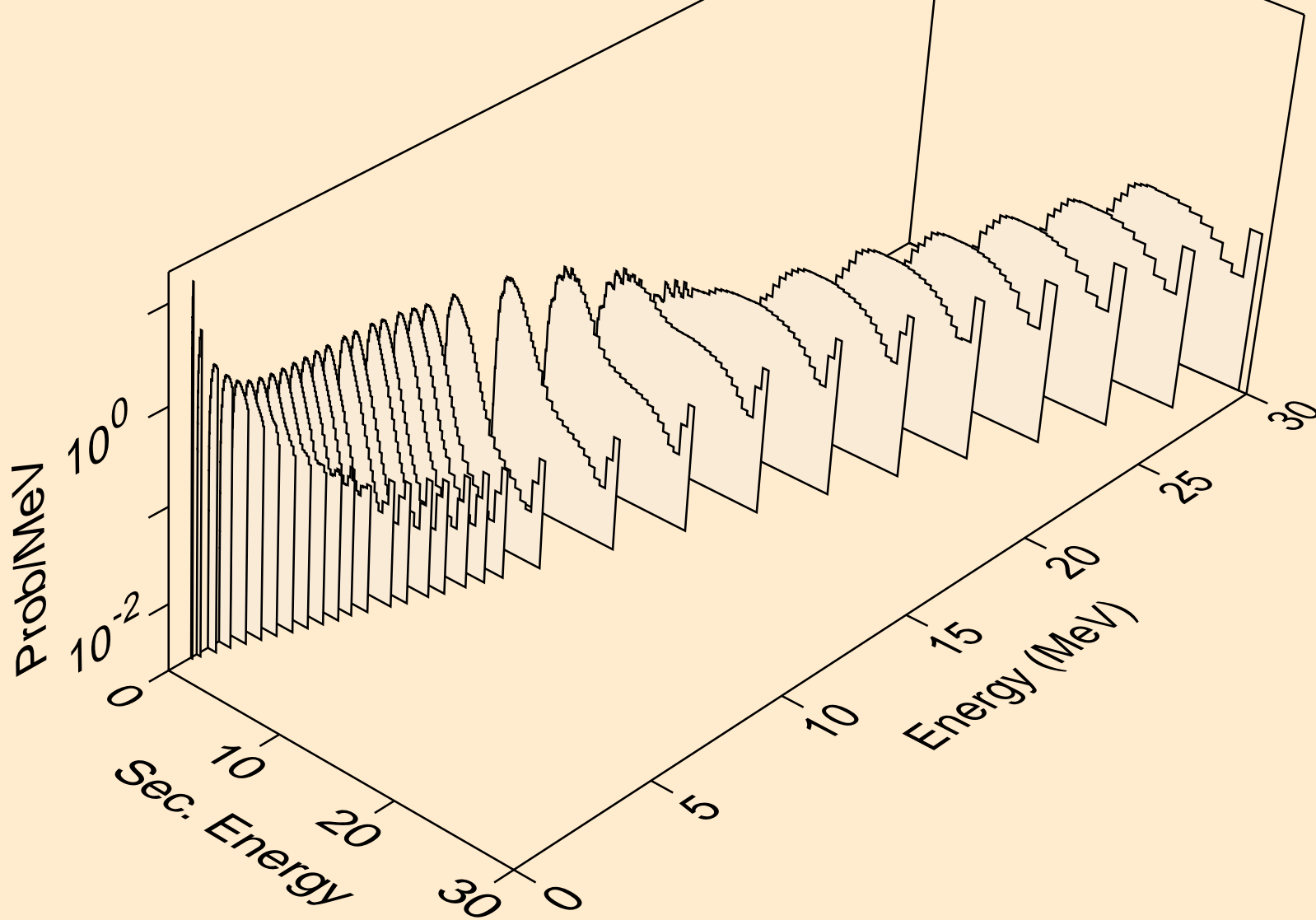
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,2np)



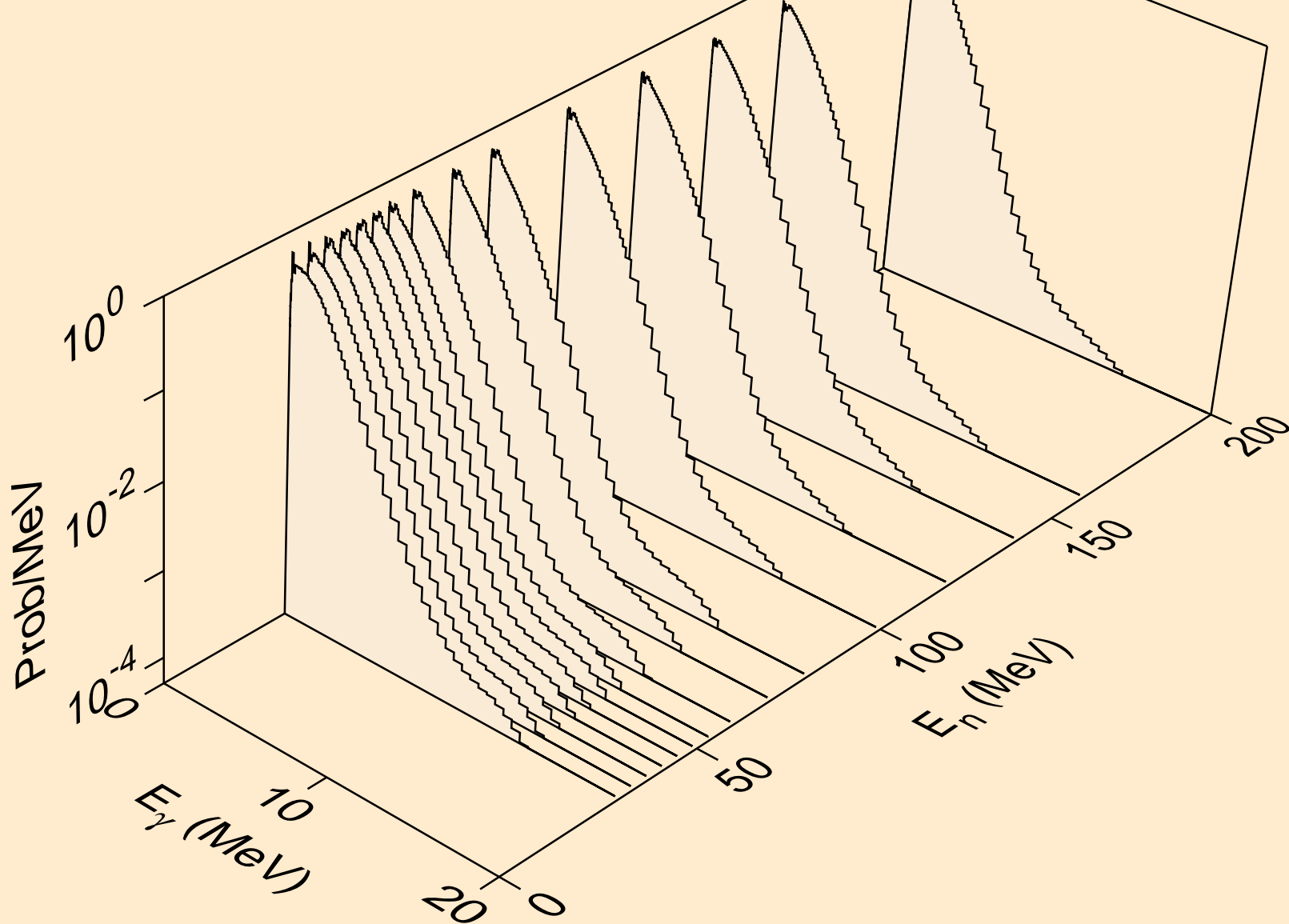
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,npa)



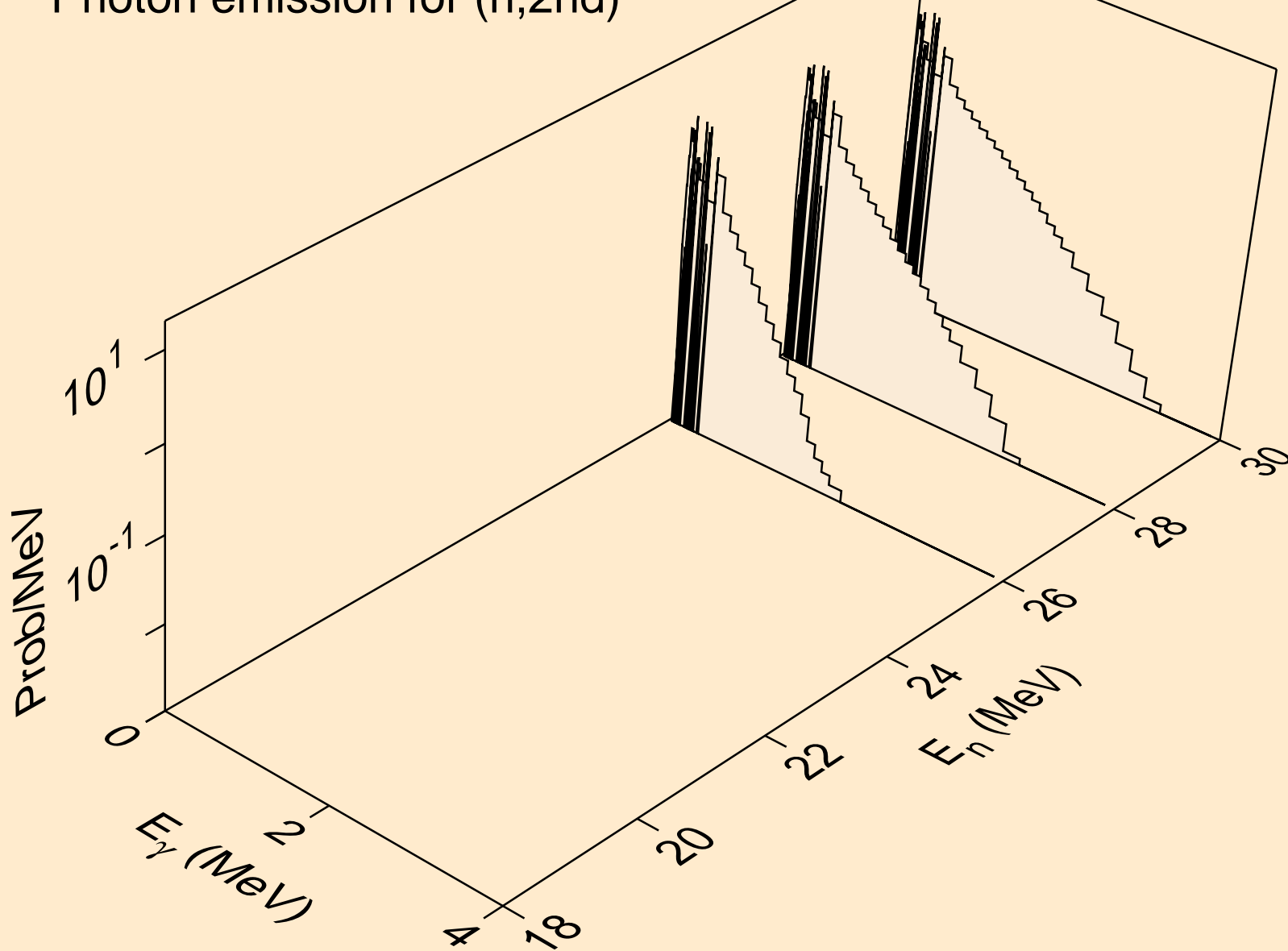
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,n*c)



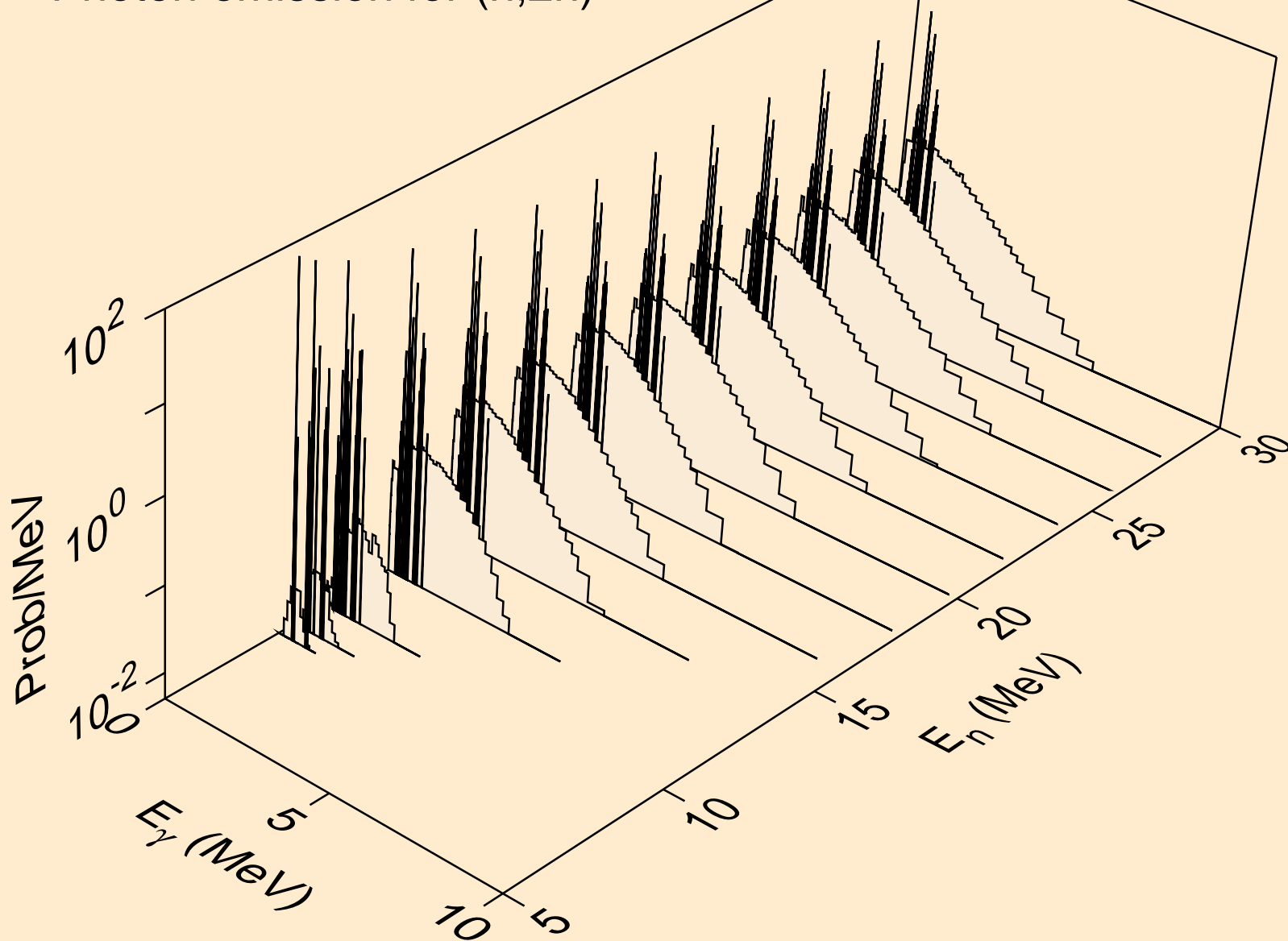
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,x)



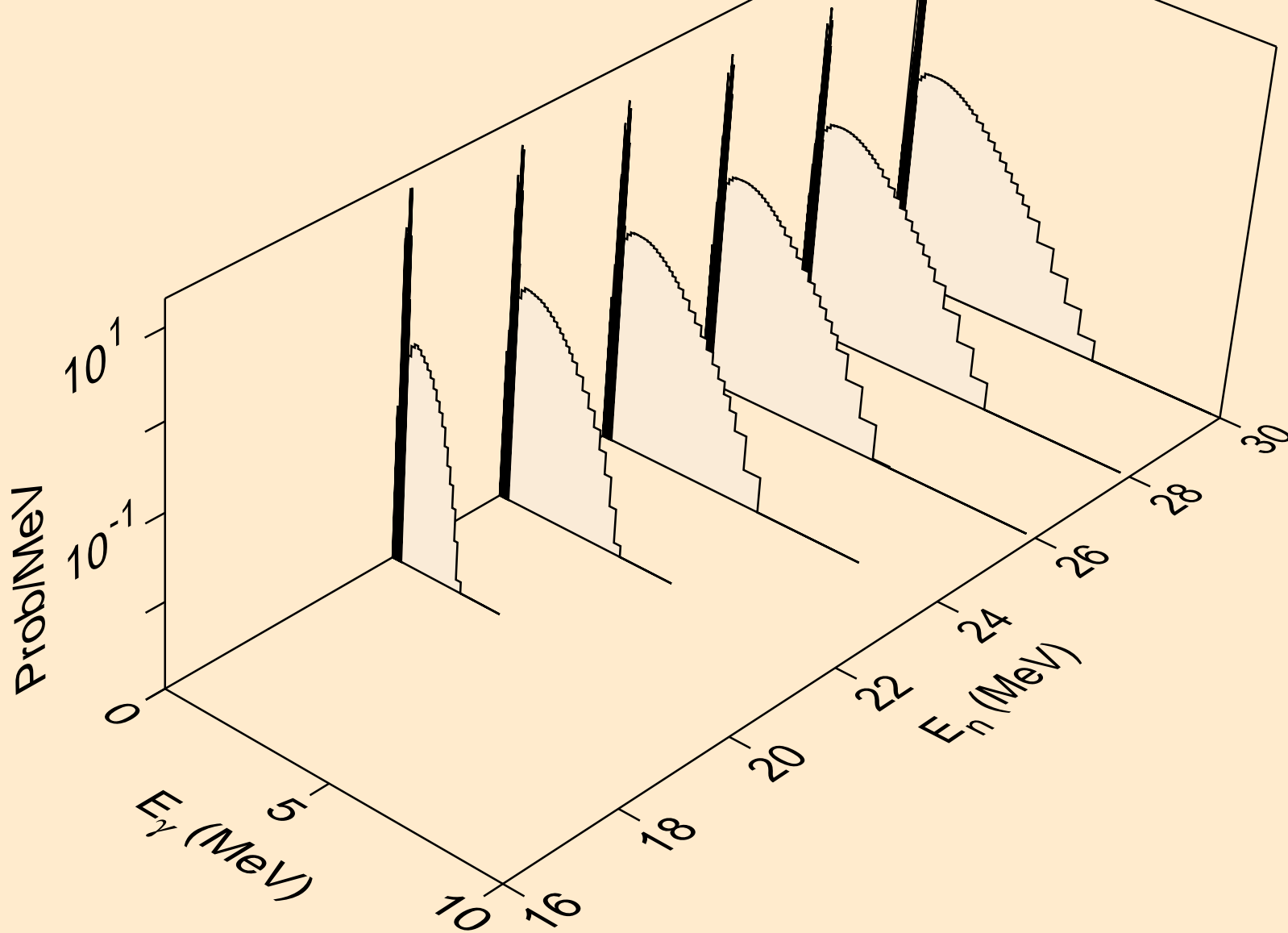
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,2nd)



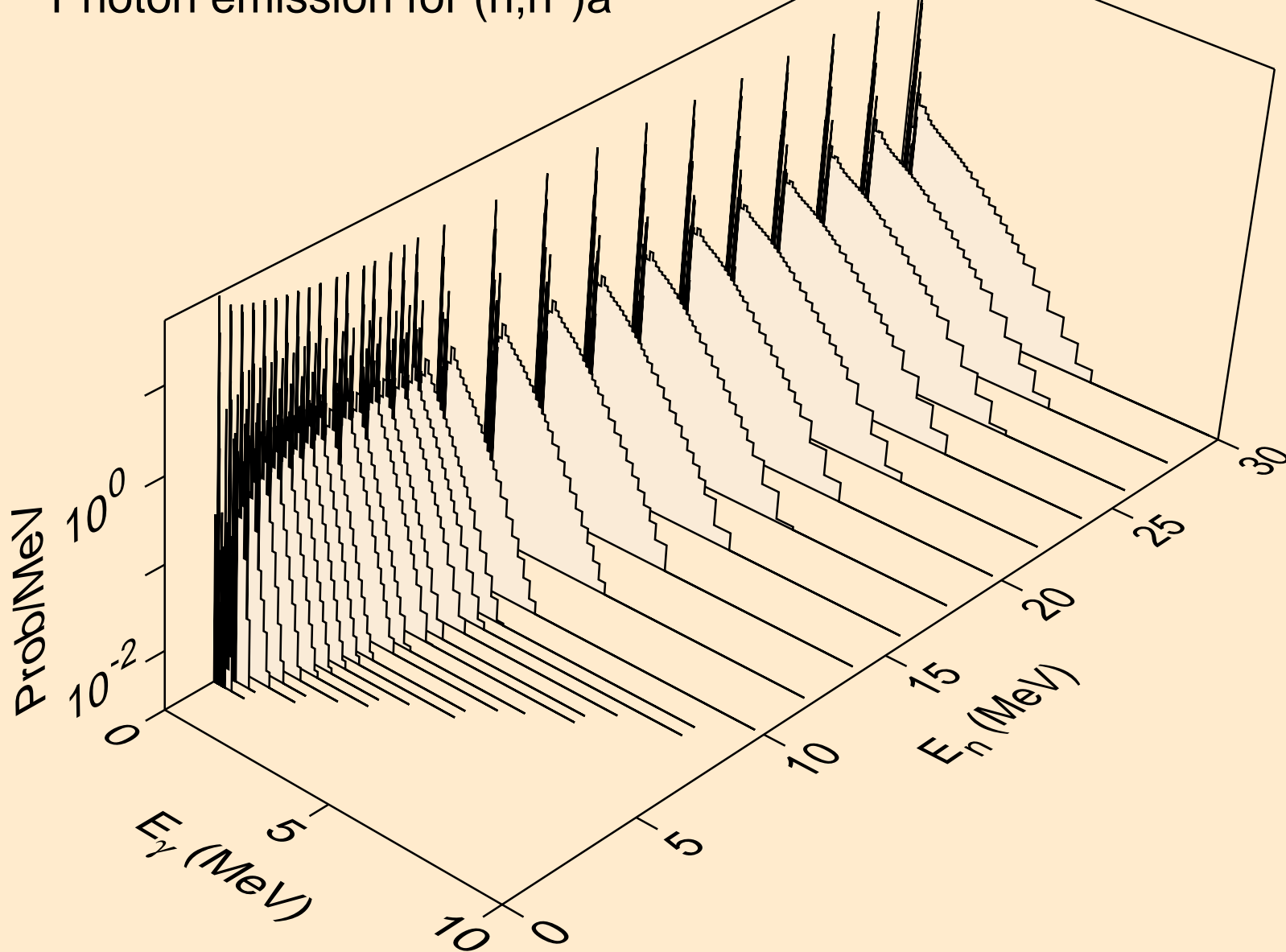
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,2n)



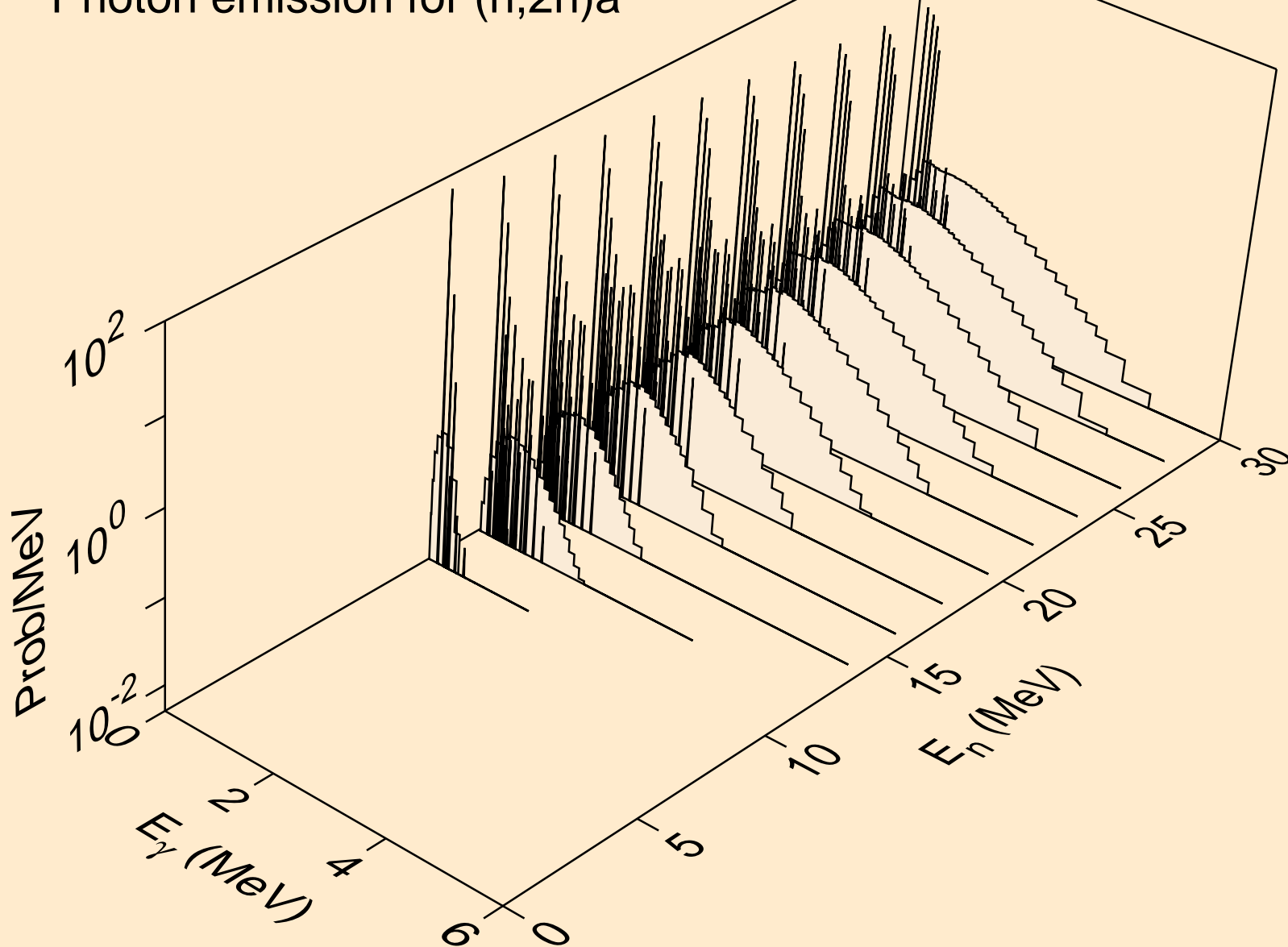
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,3n)



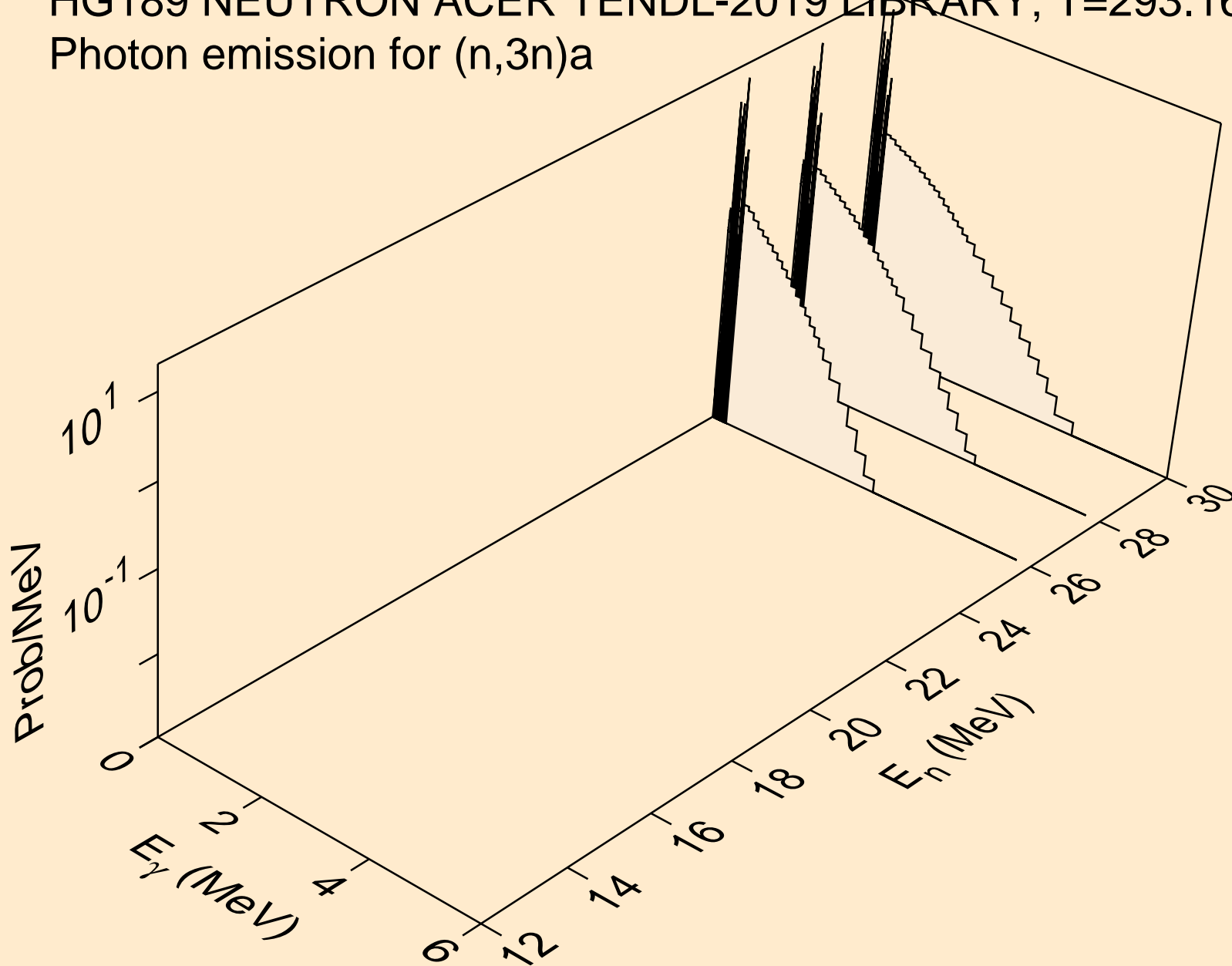
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*)a



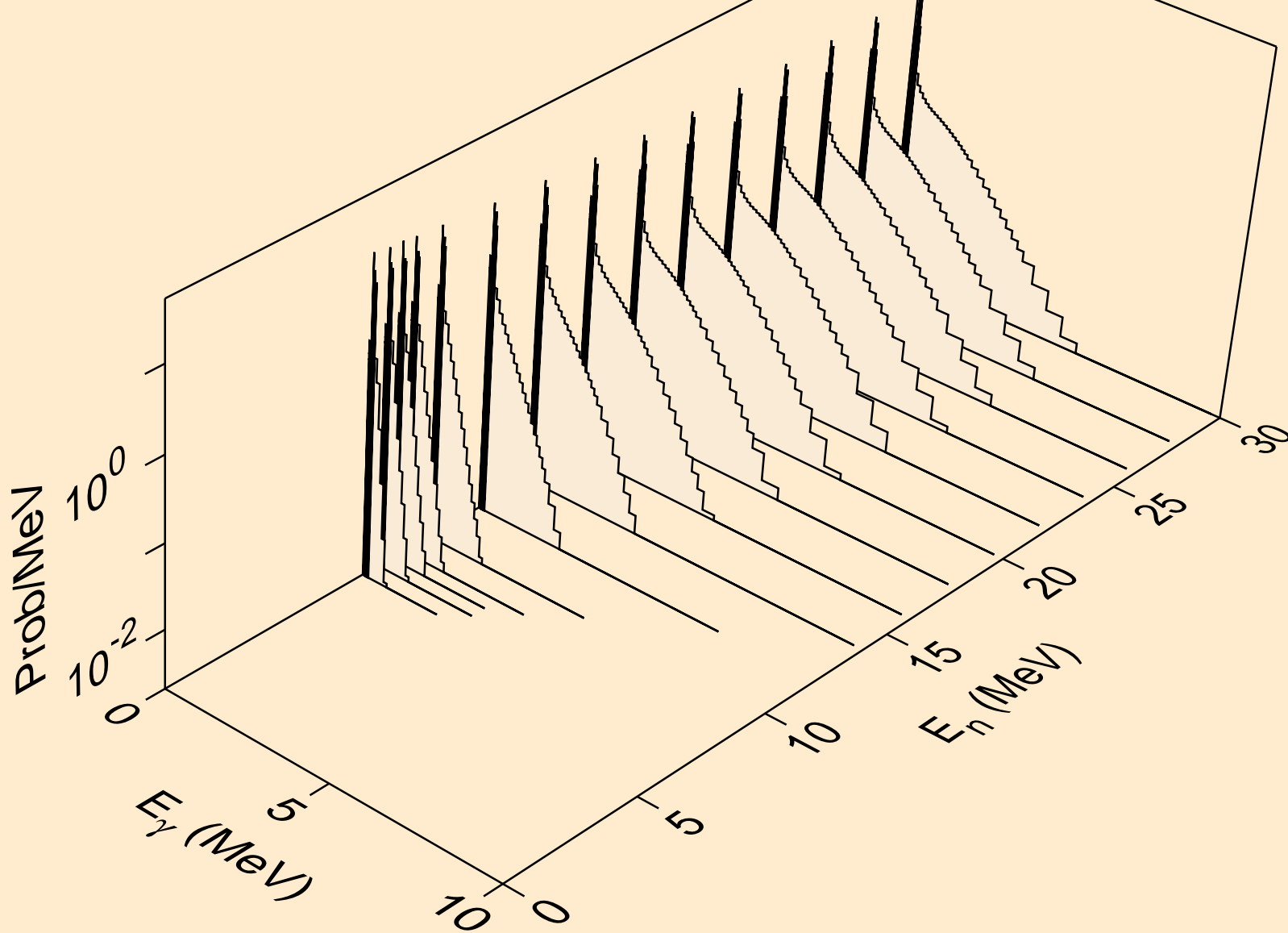
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,2n) α



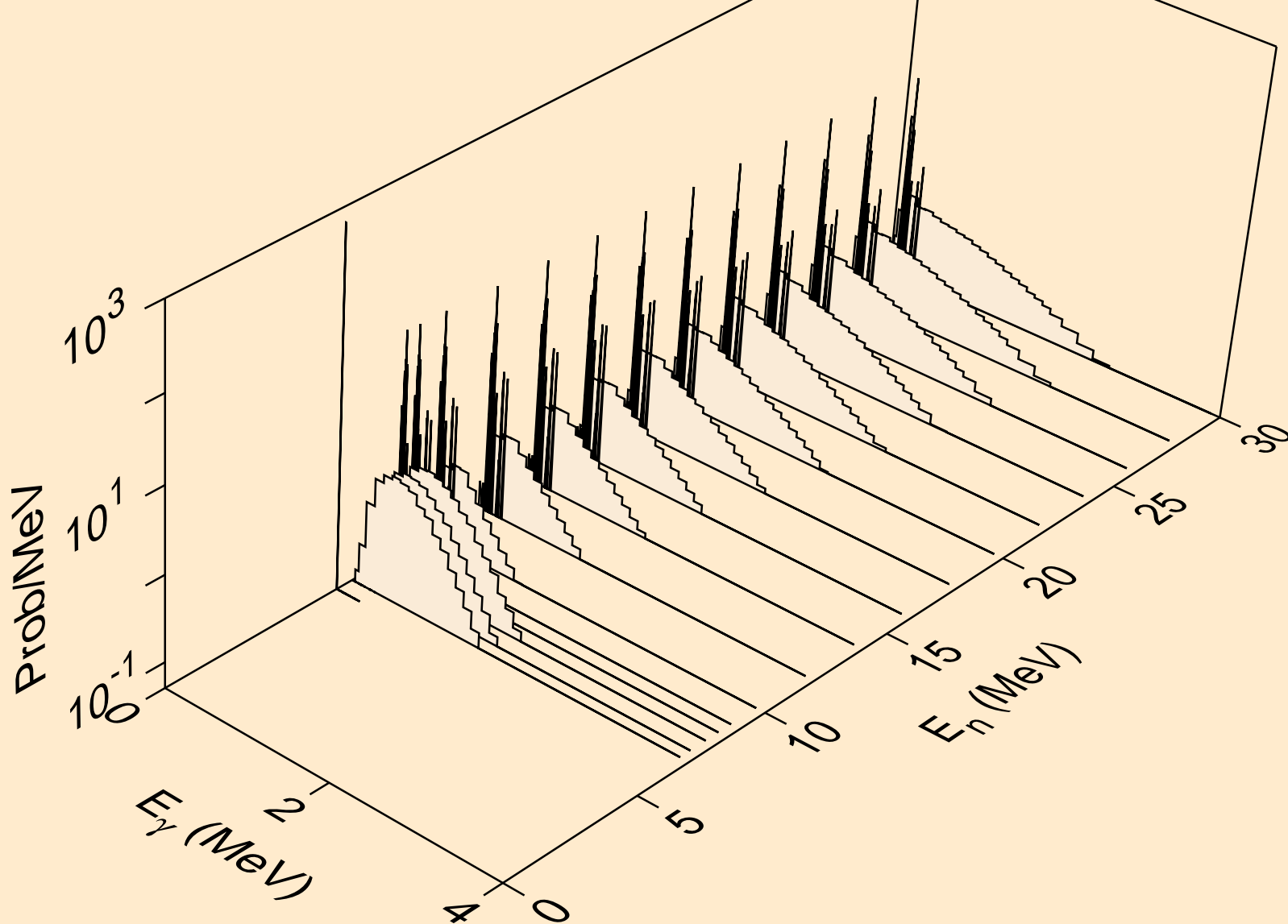
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,3n)a



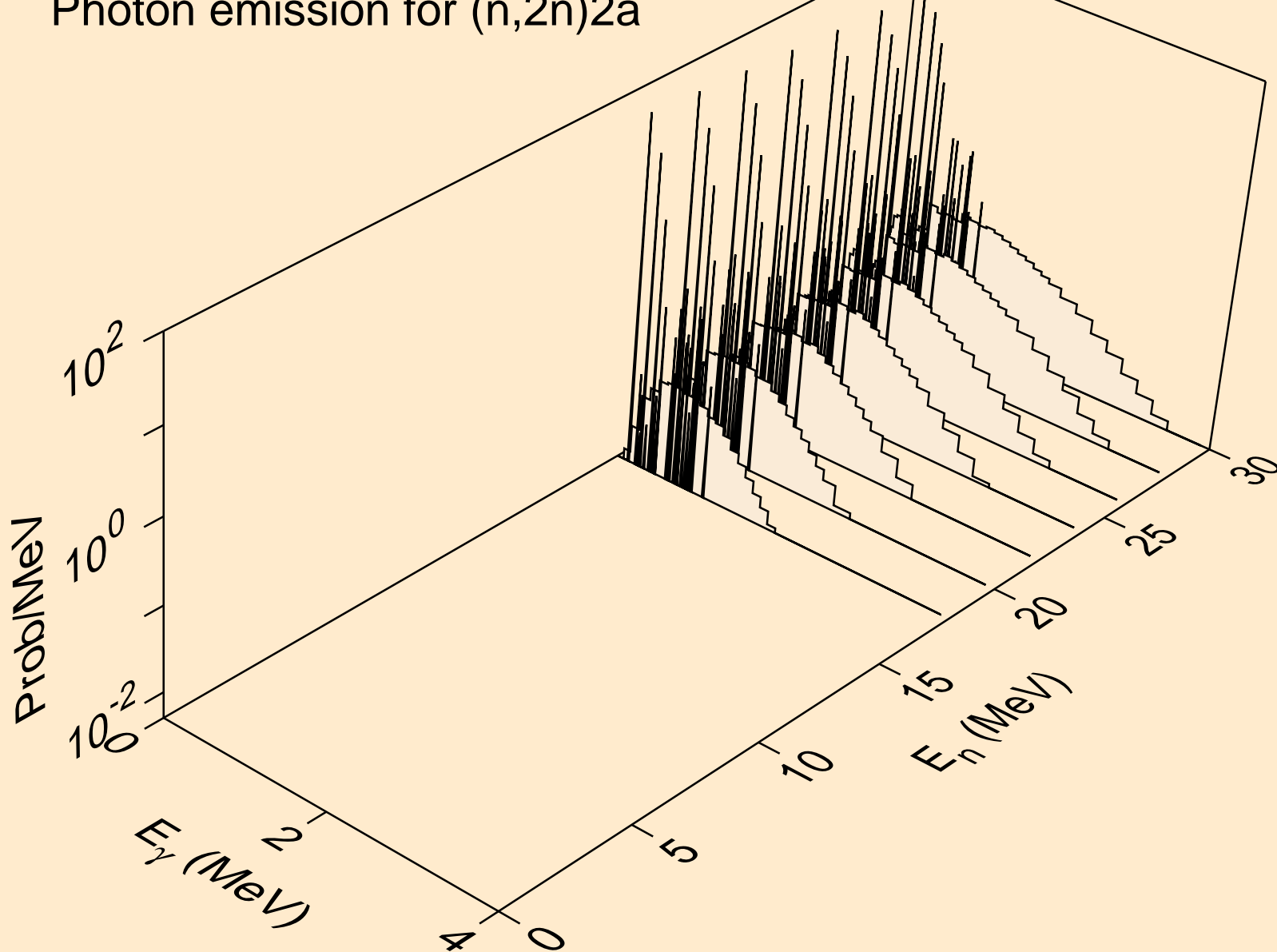
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*)p



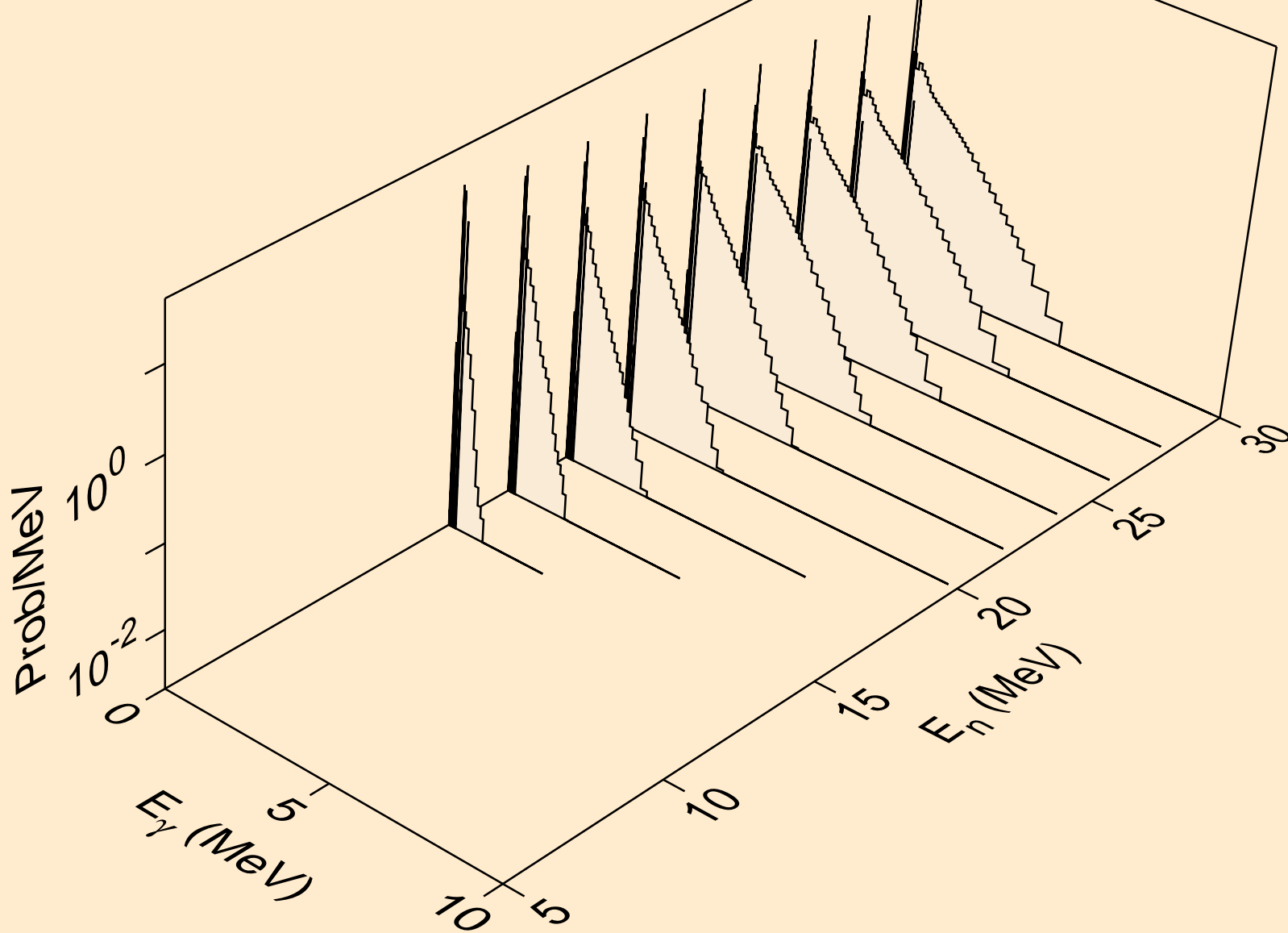
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*)2a



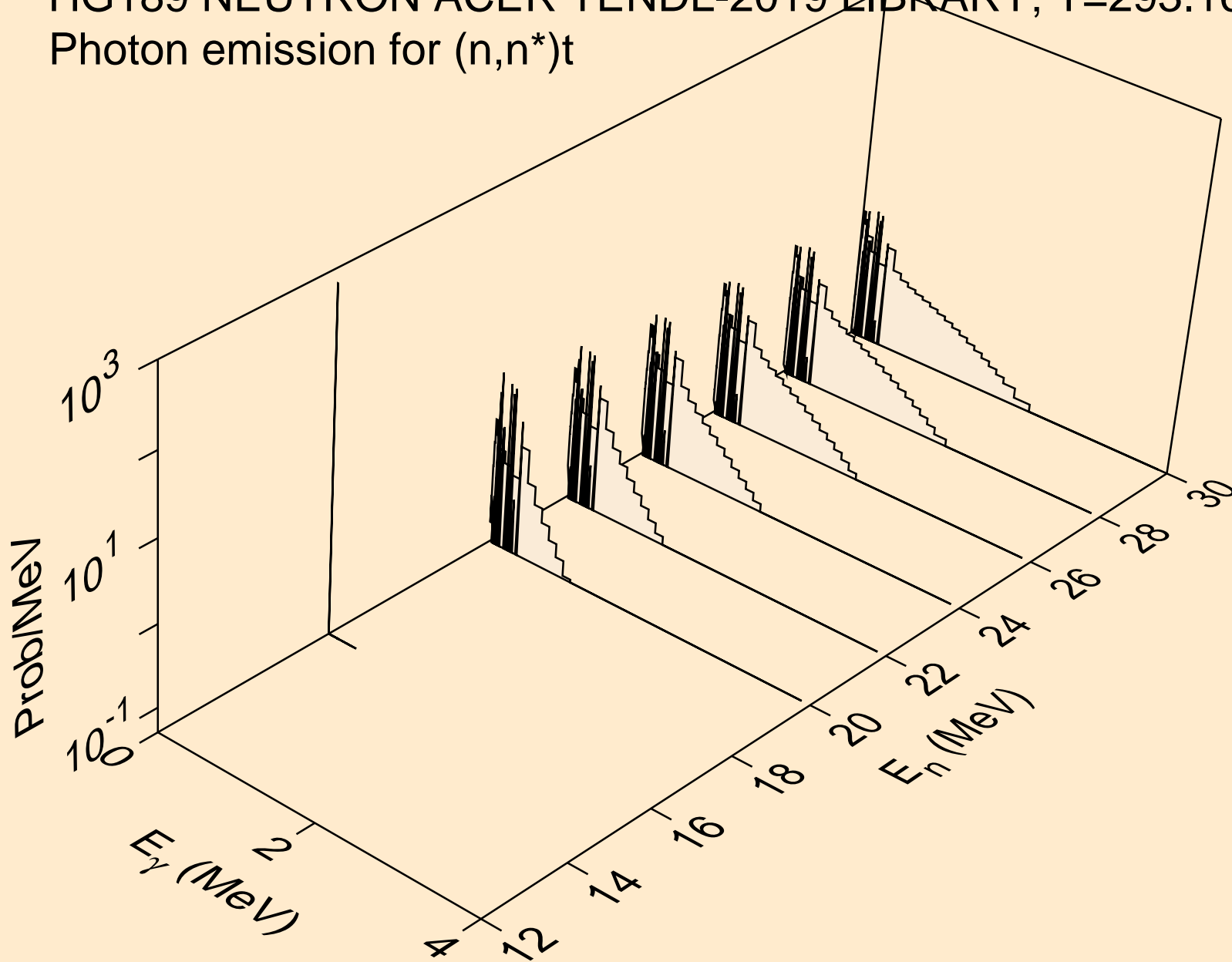
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,2n)2a



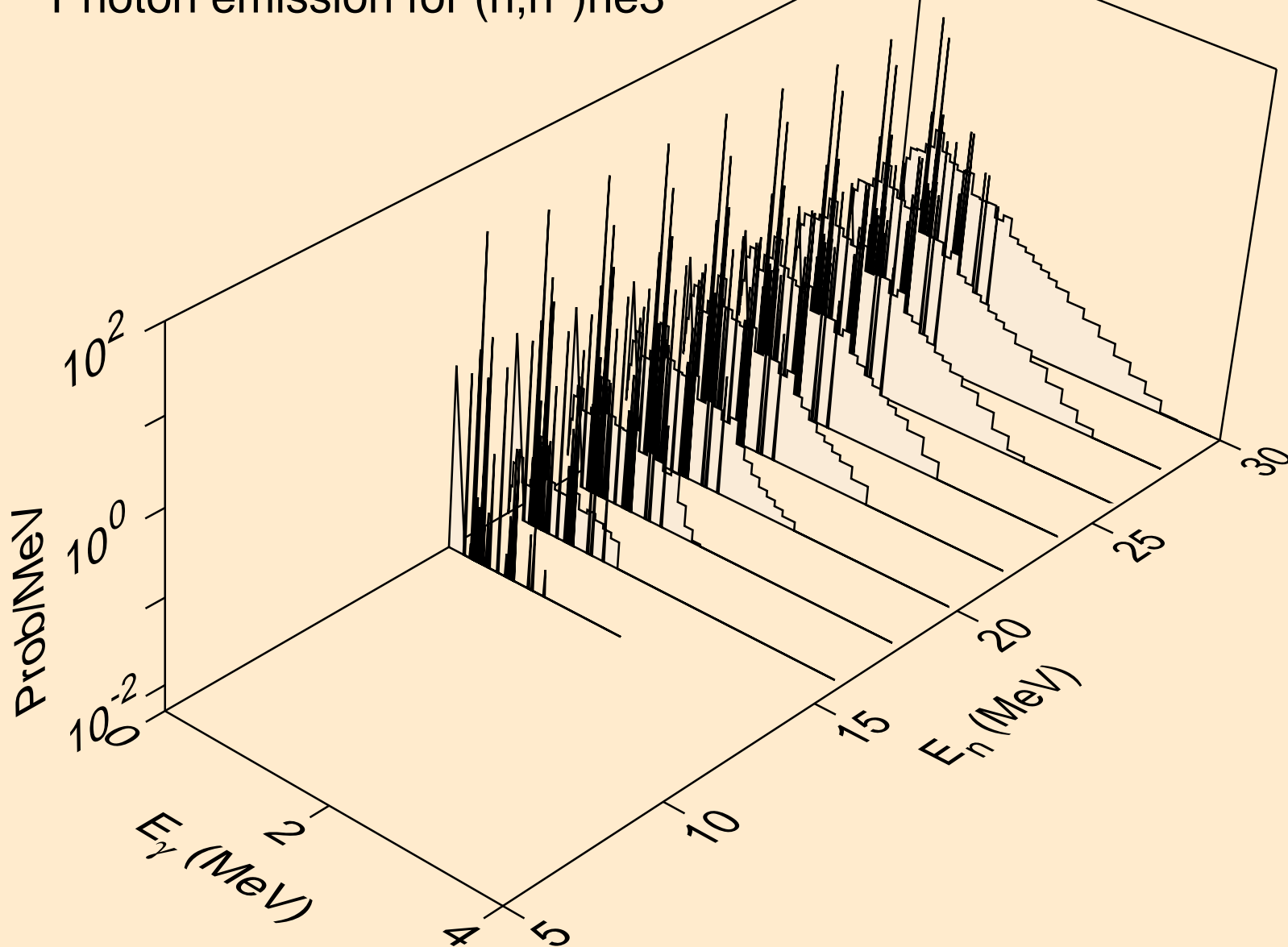
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*)d



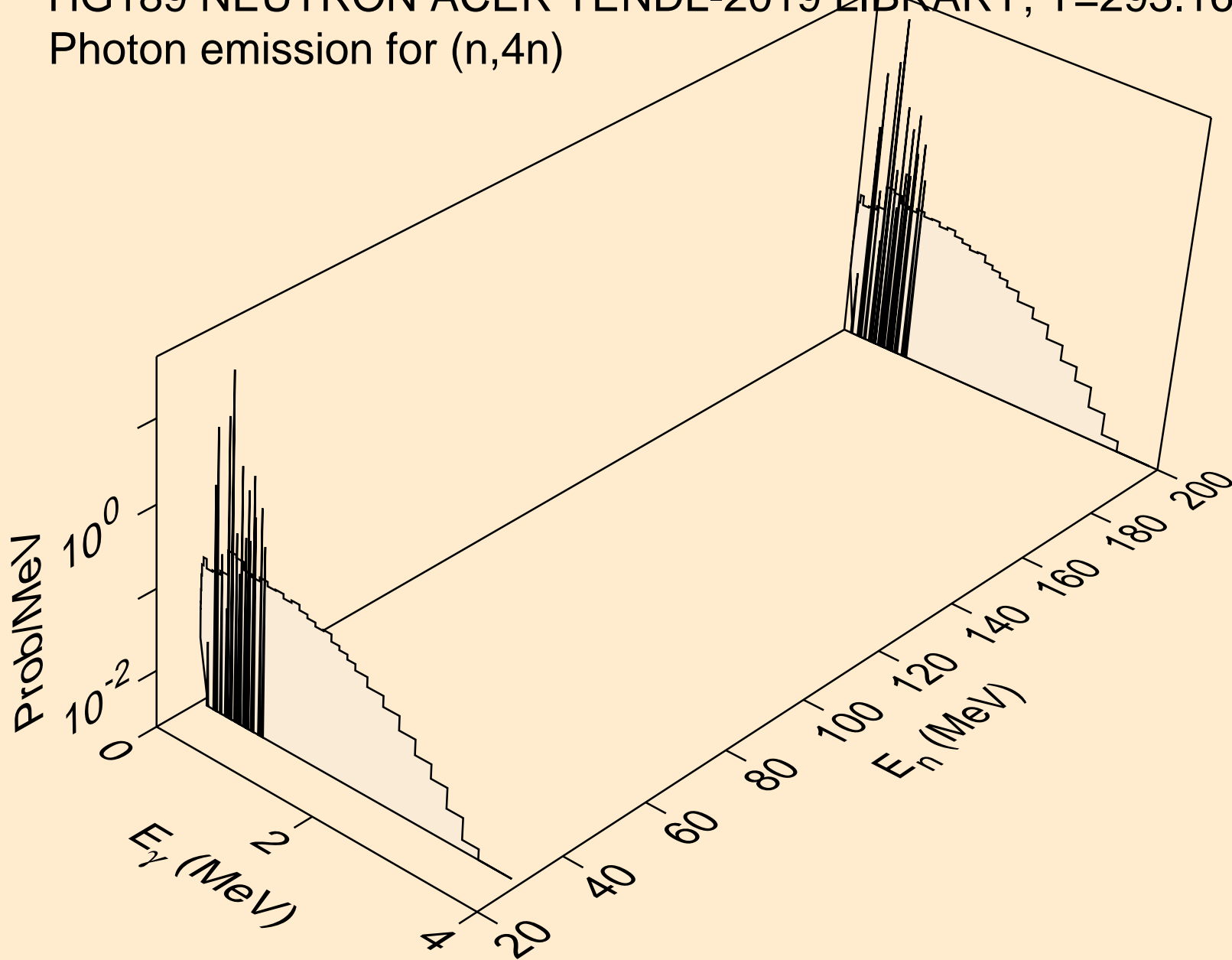
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*)t



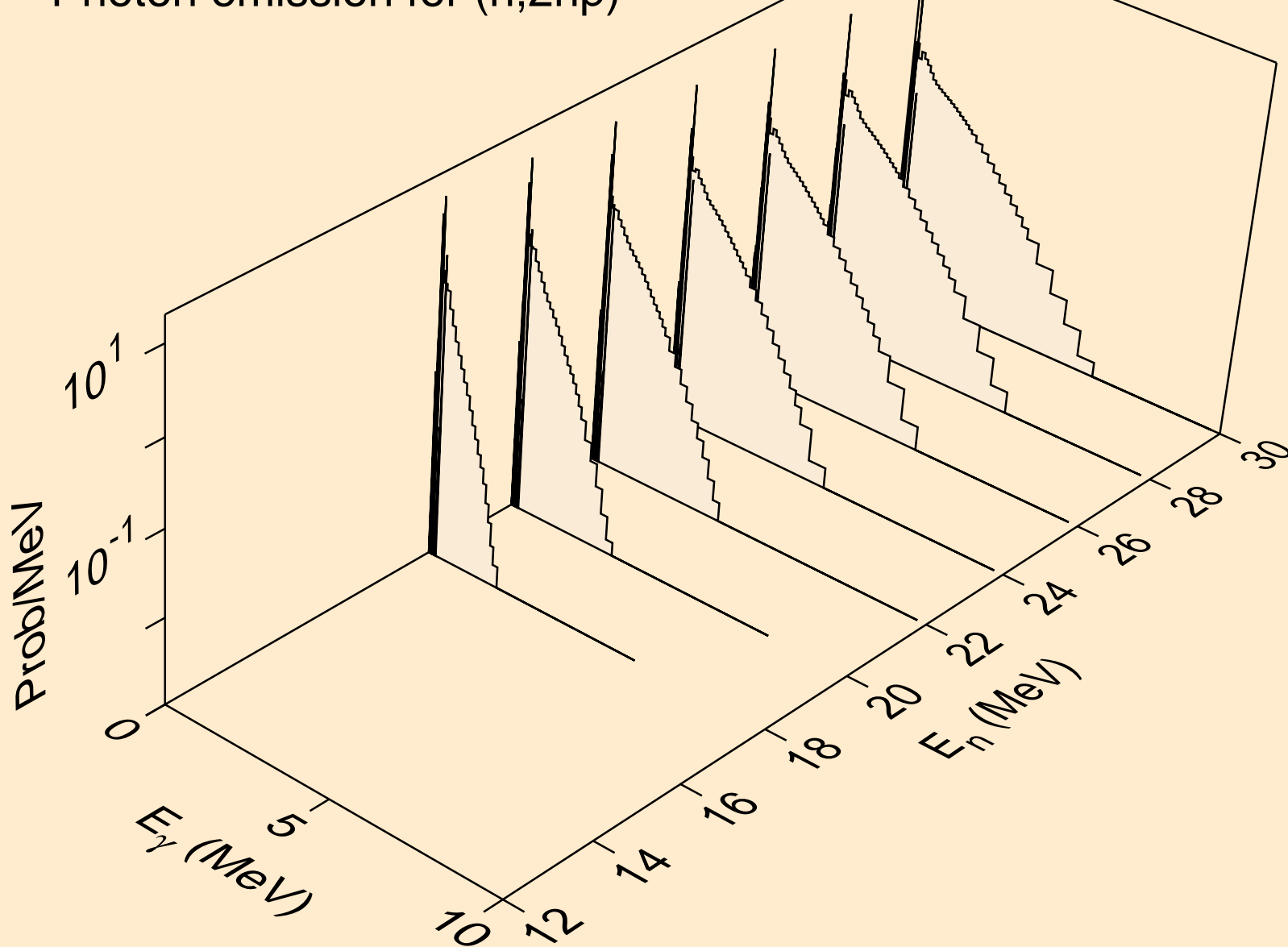
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*)he3



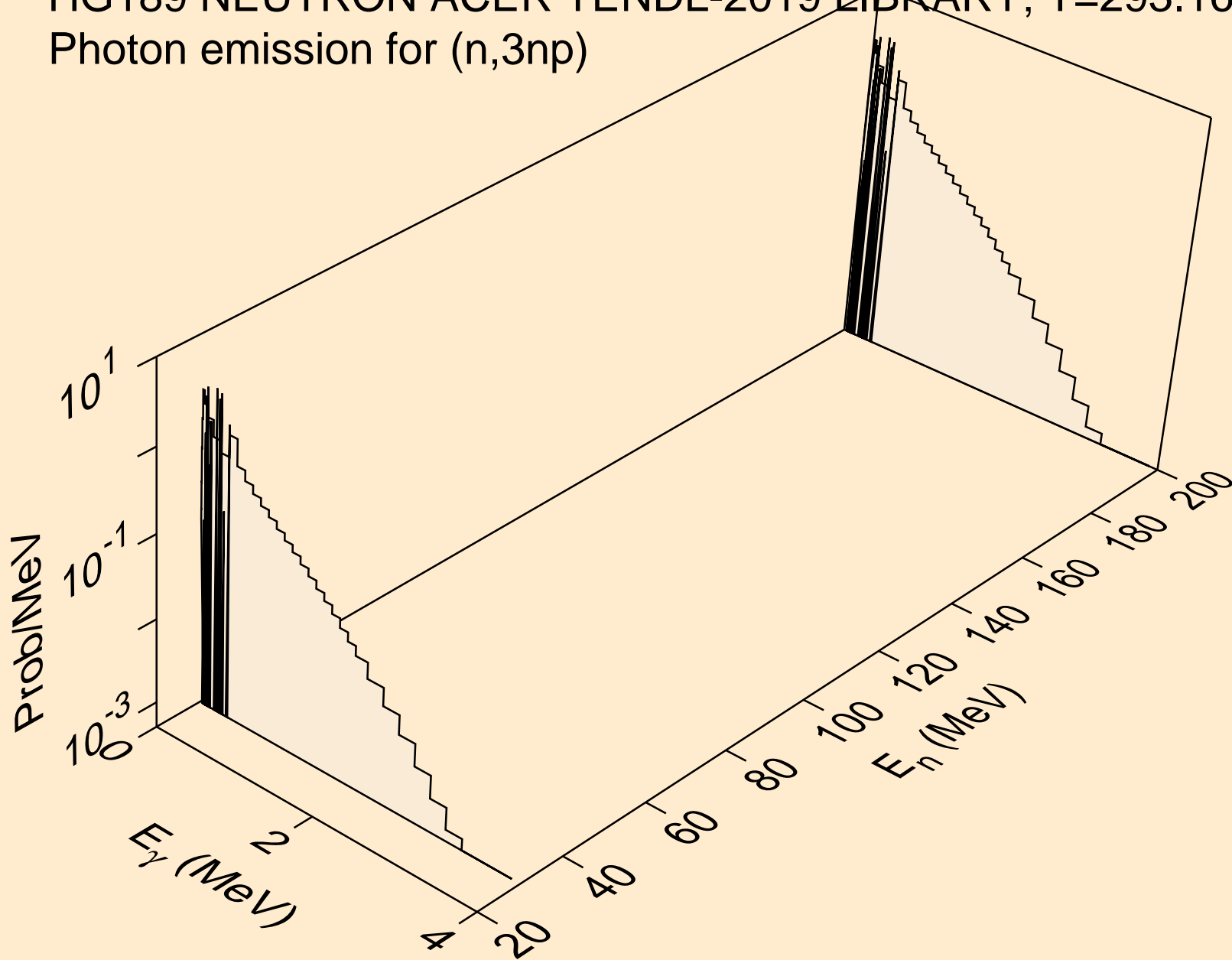
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,4n)



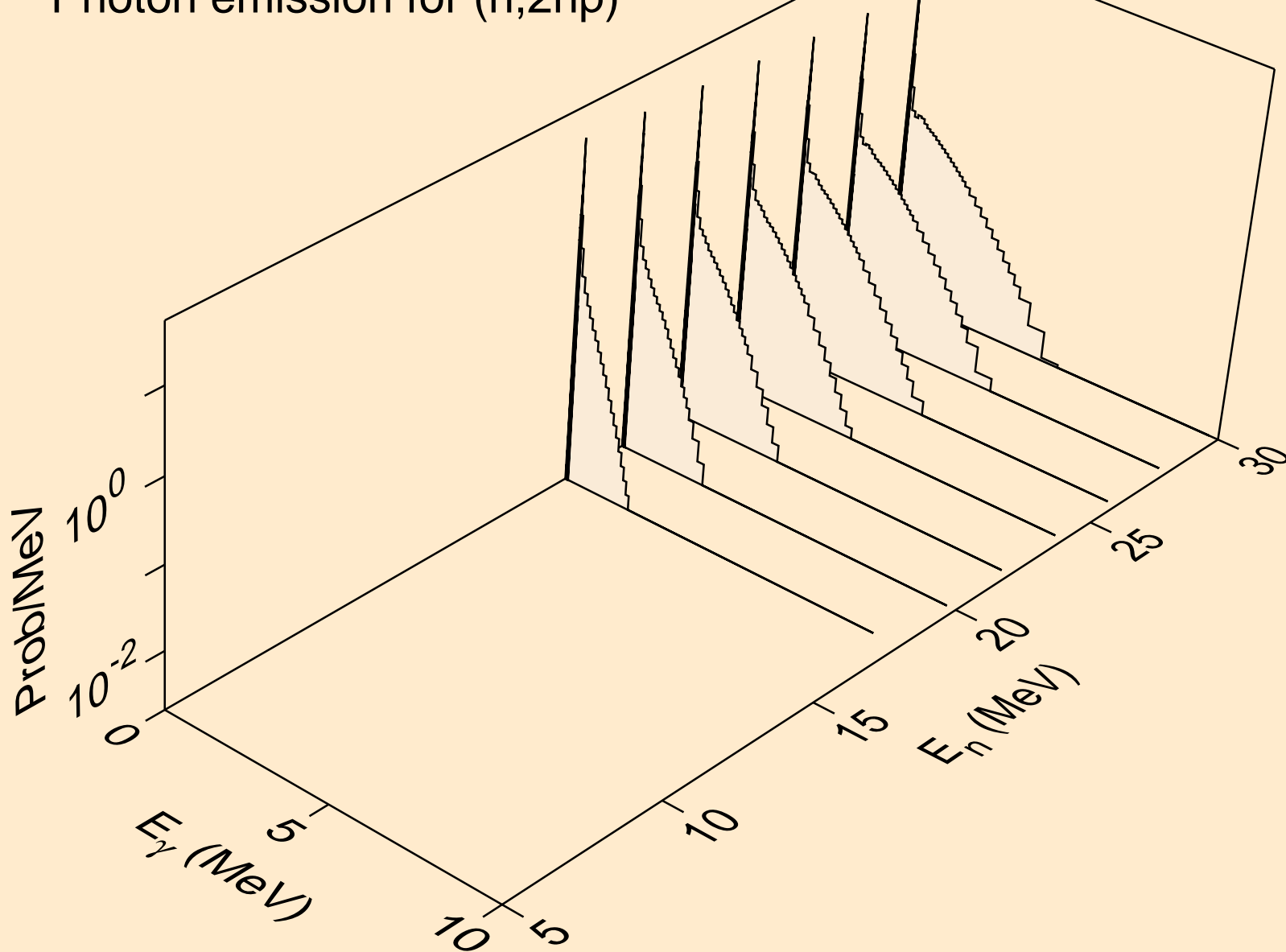
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,2np)



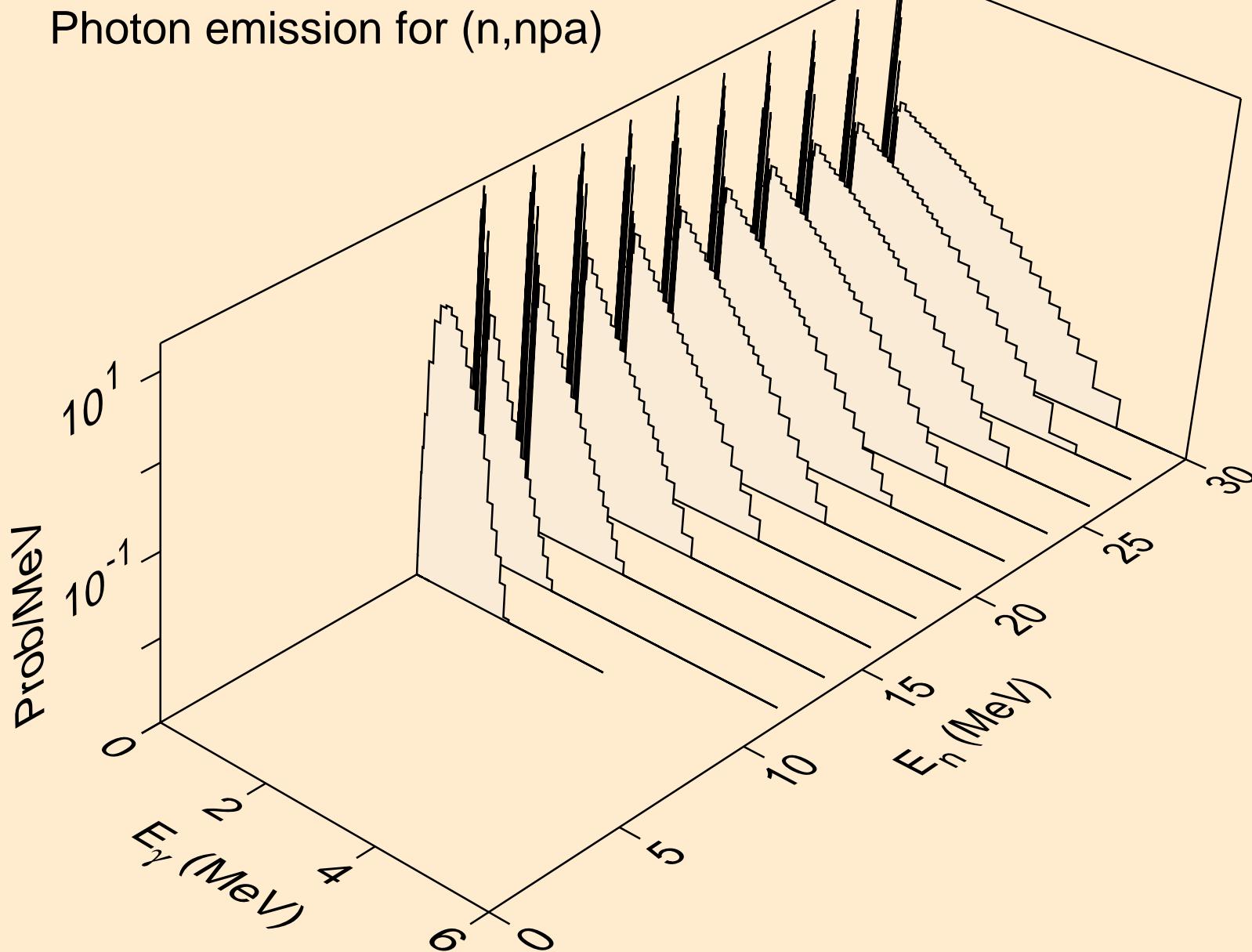
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,3np)



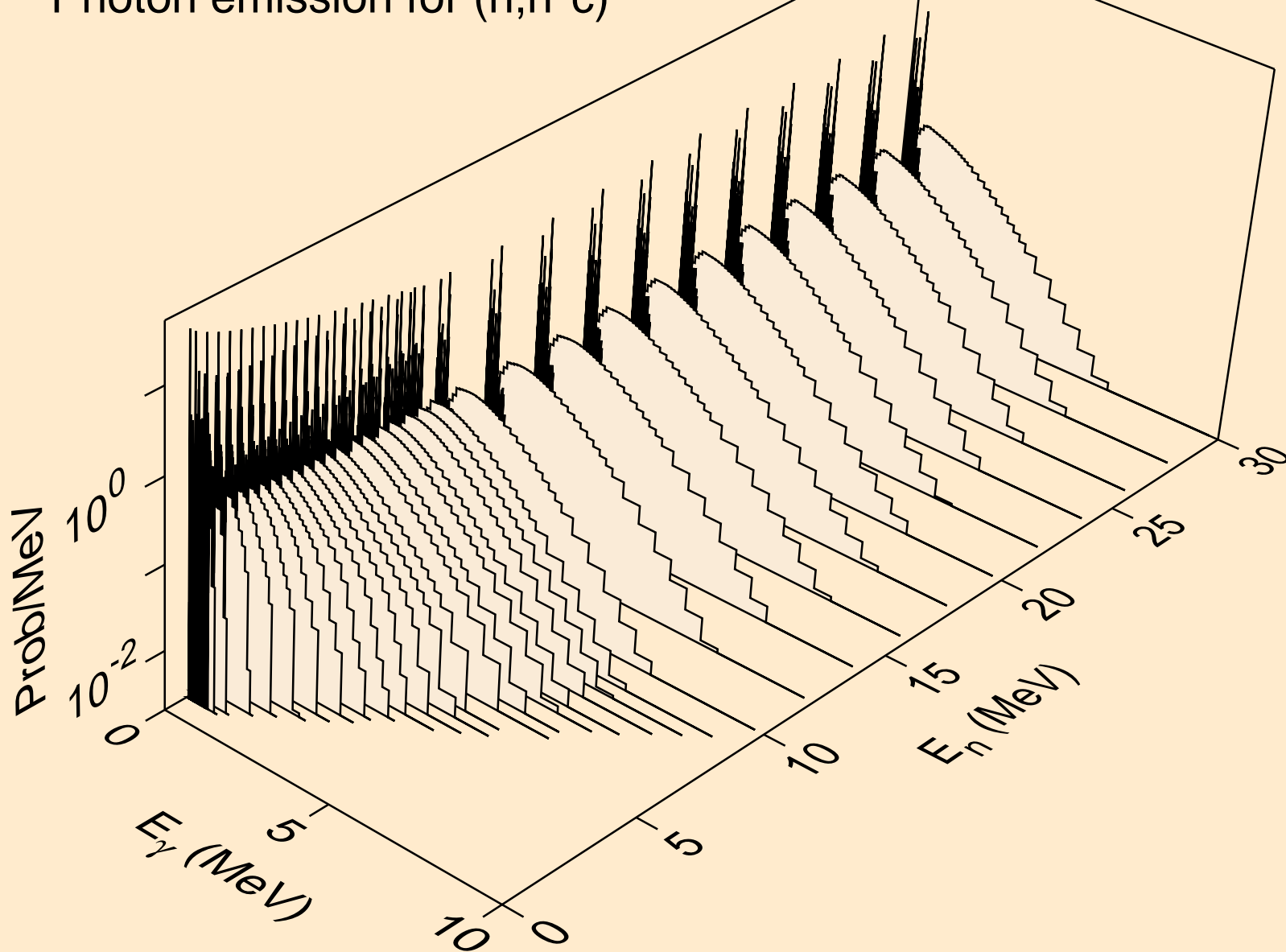
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,2np)



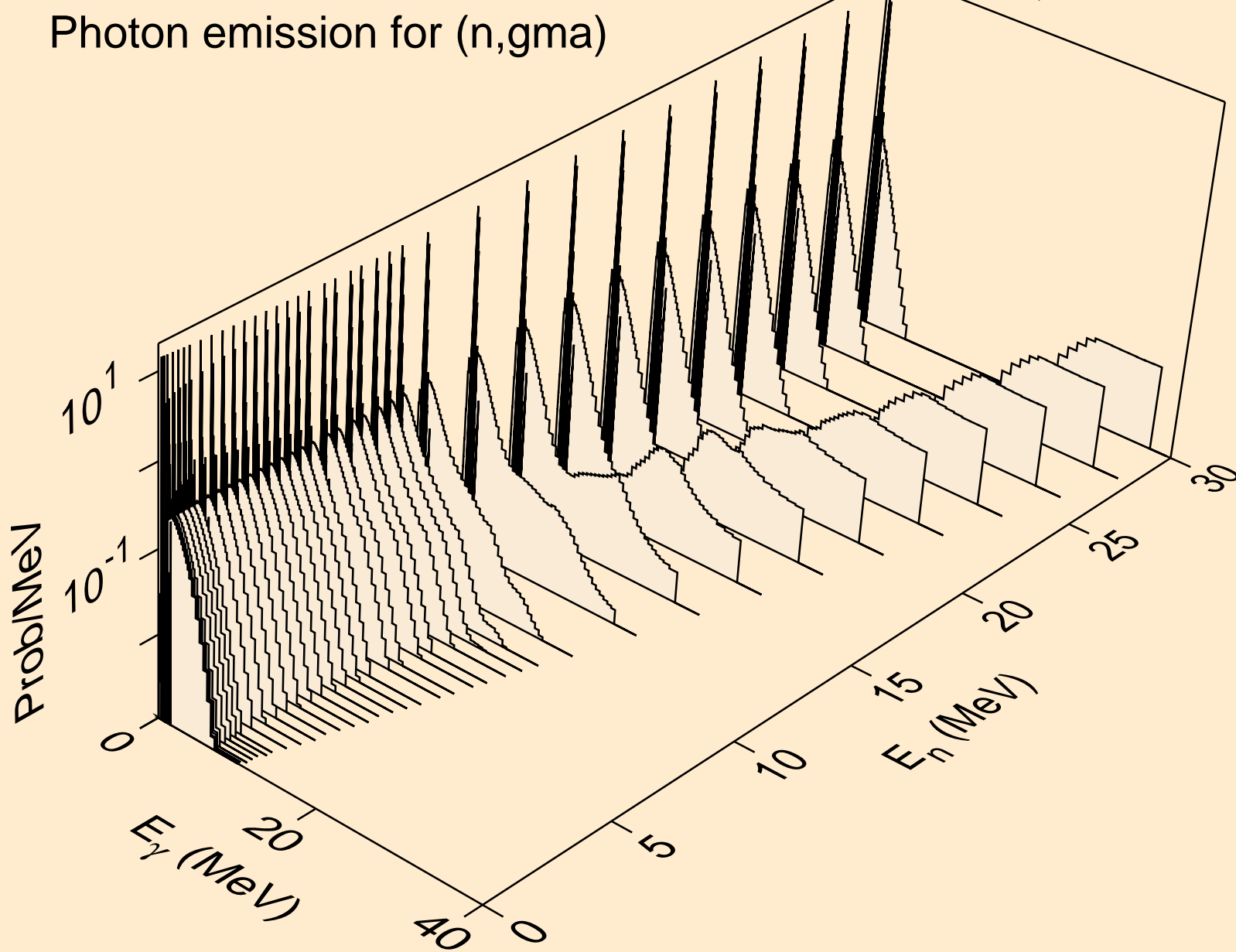
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,npa)



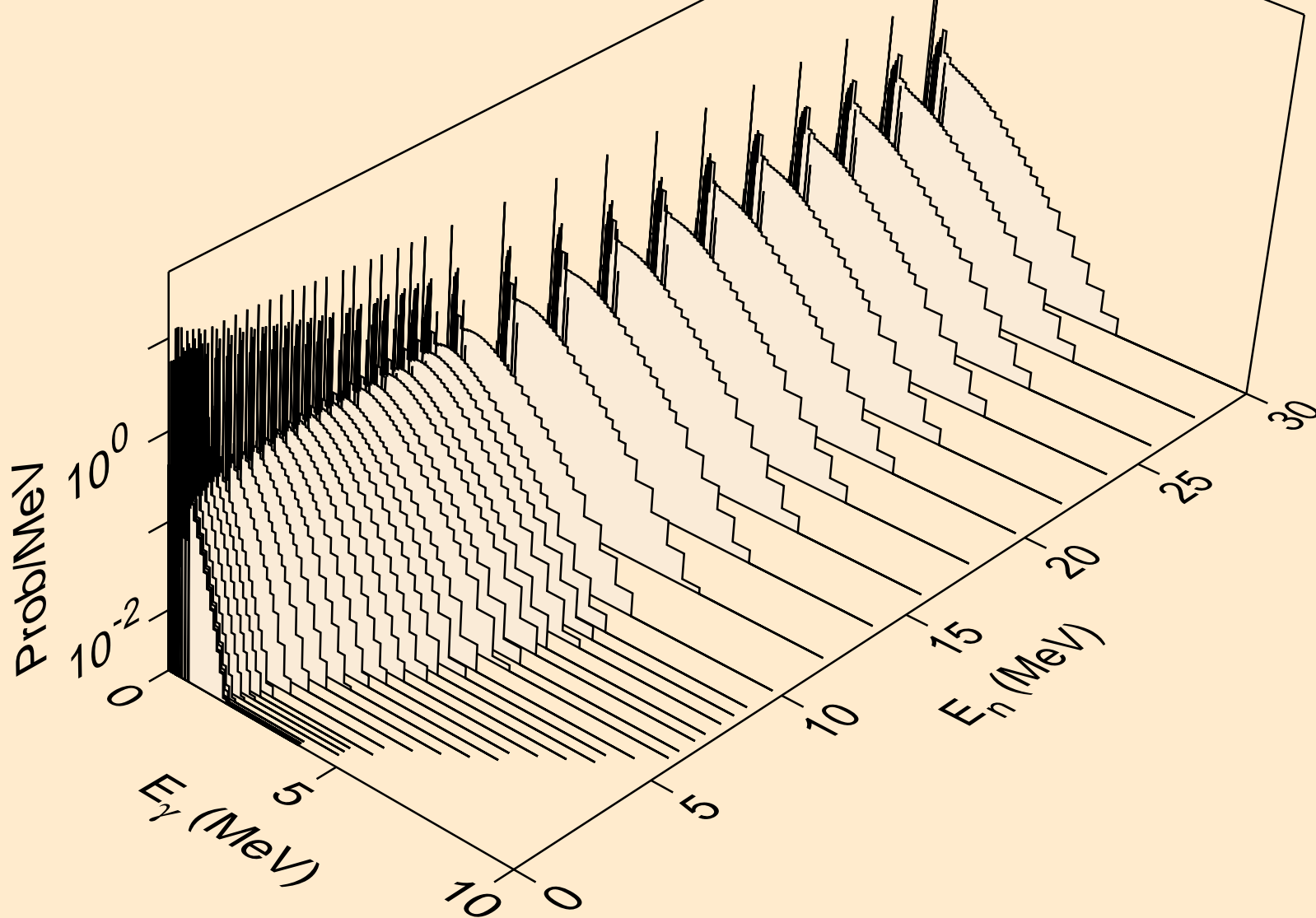
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*c)



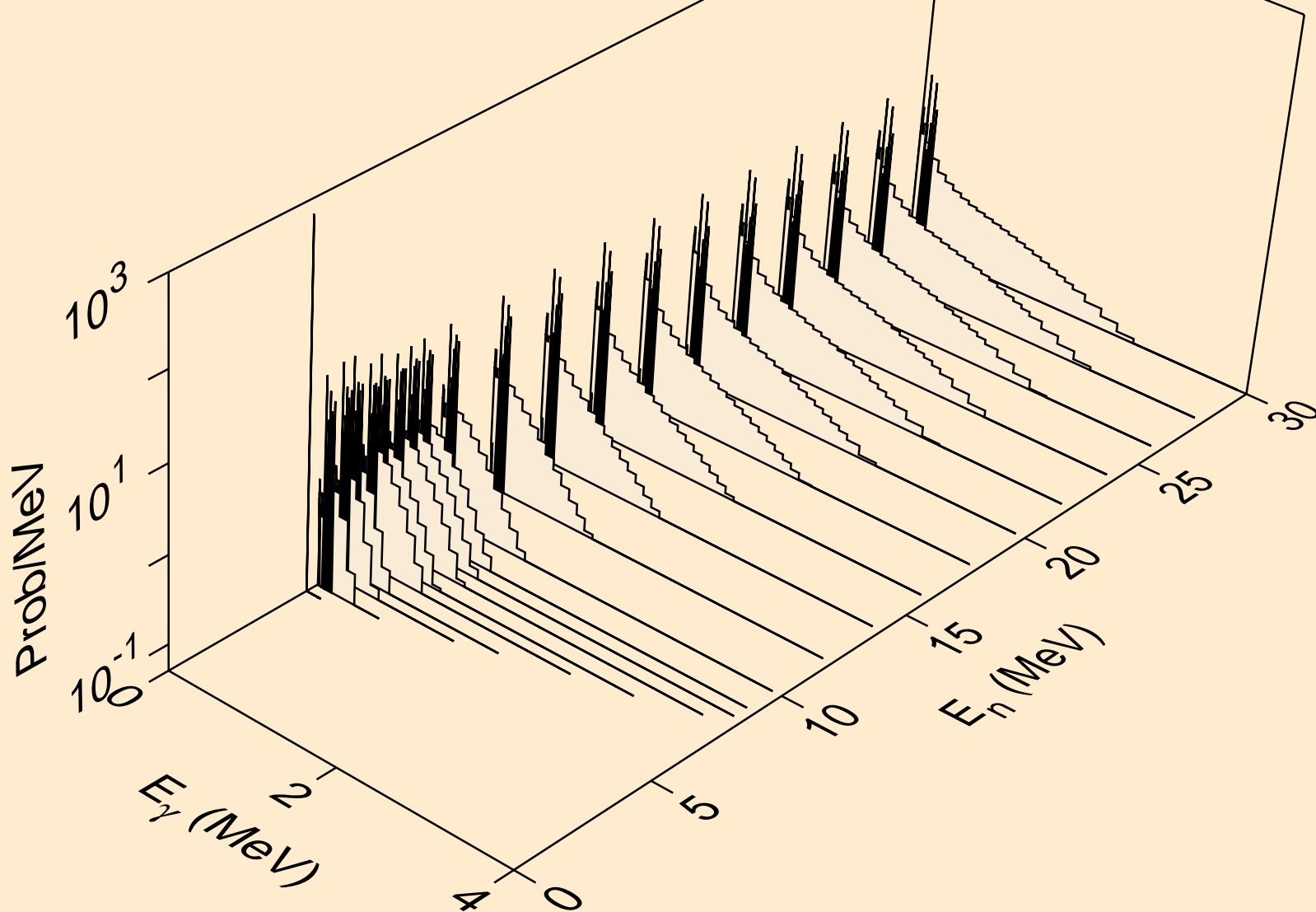
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,gma)



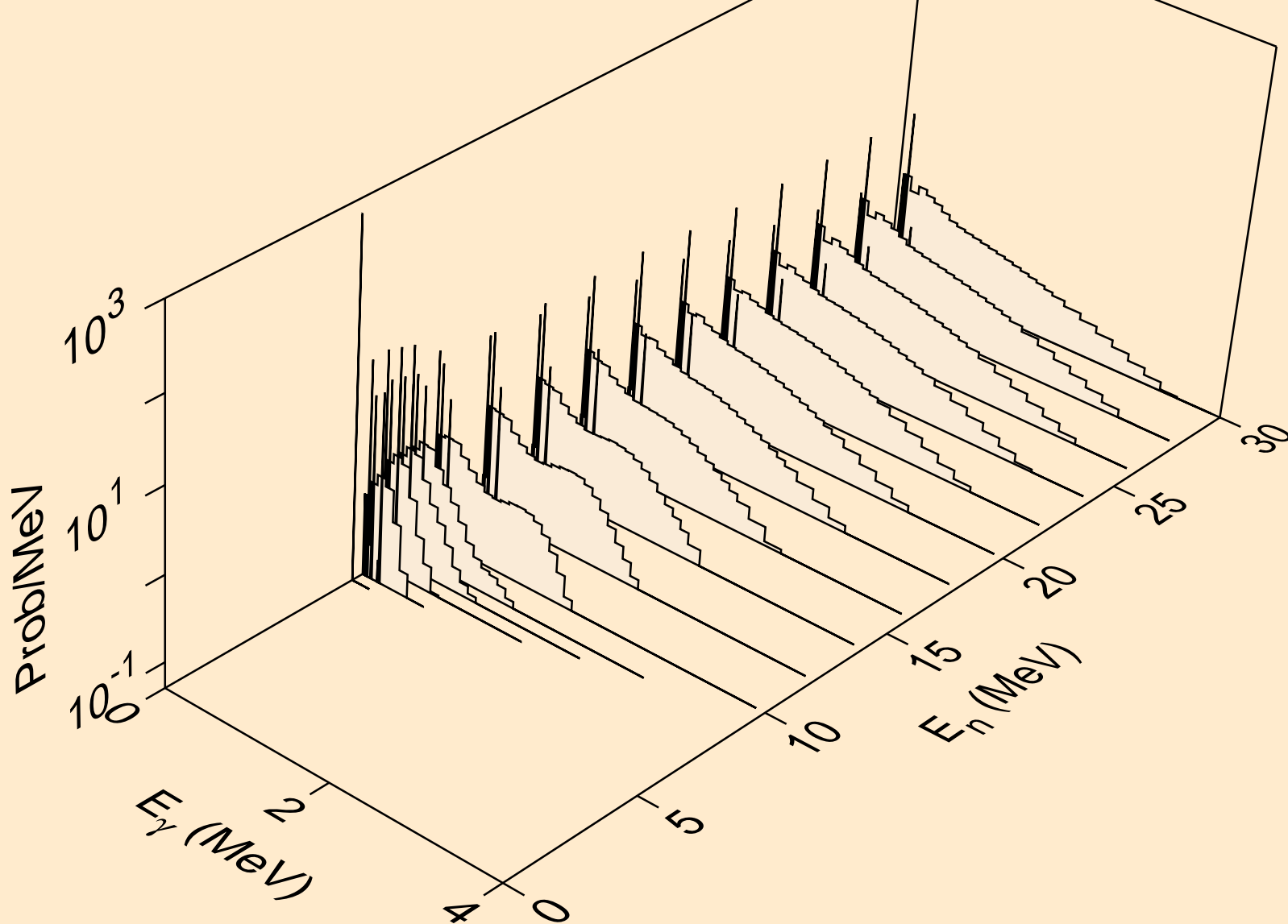
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,p)



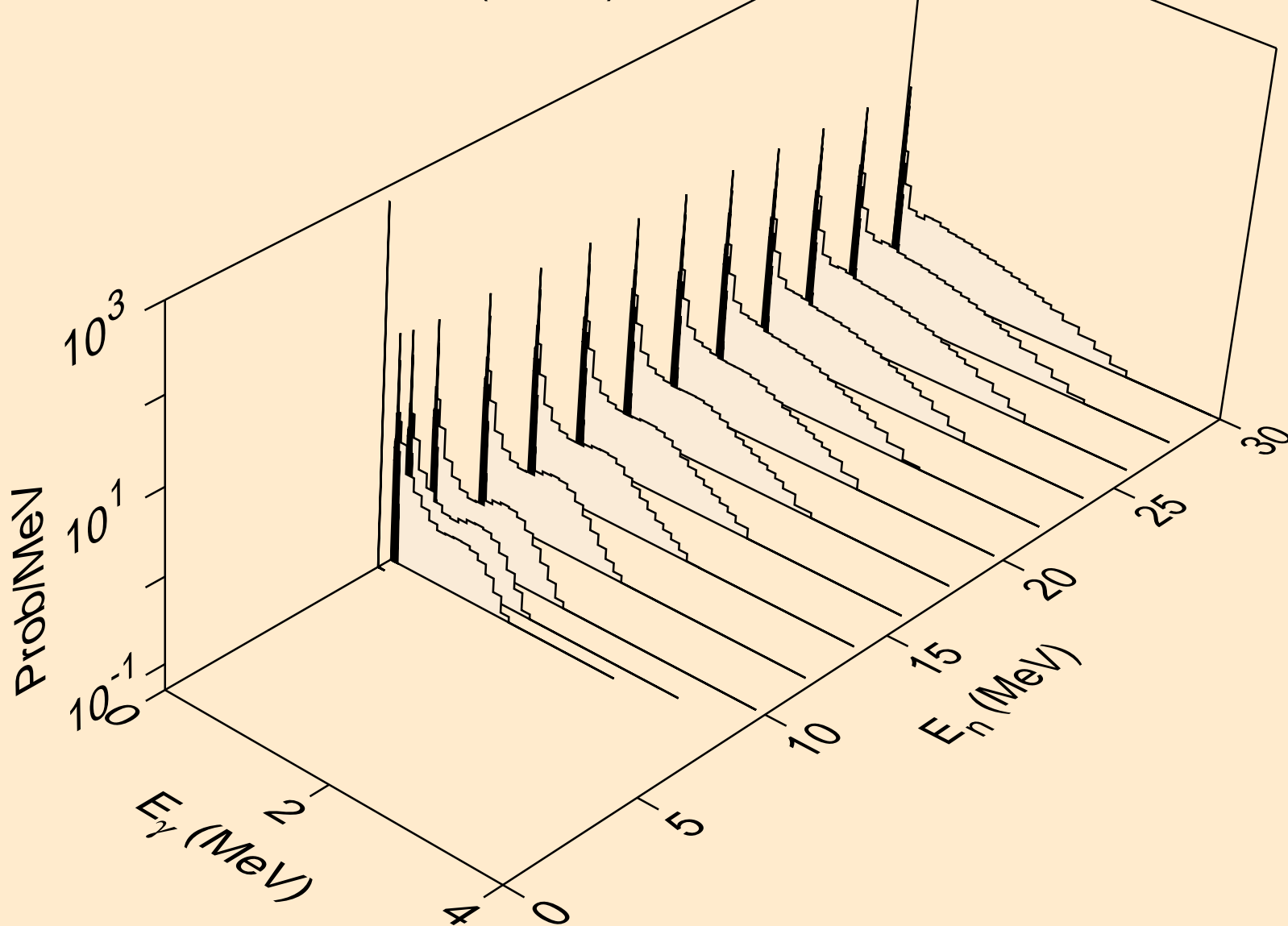
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,d)



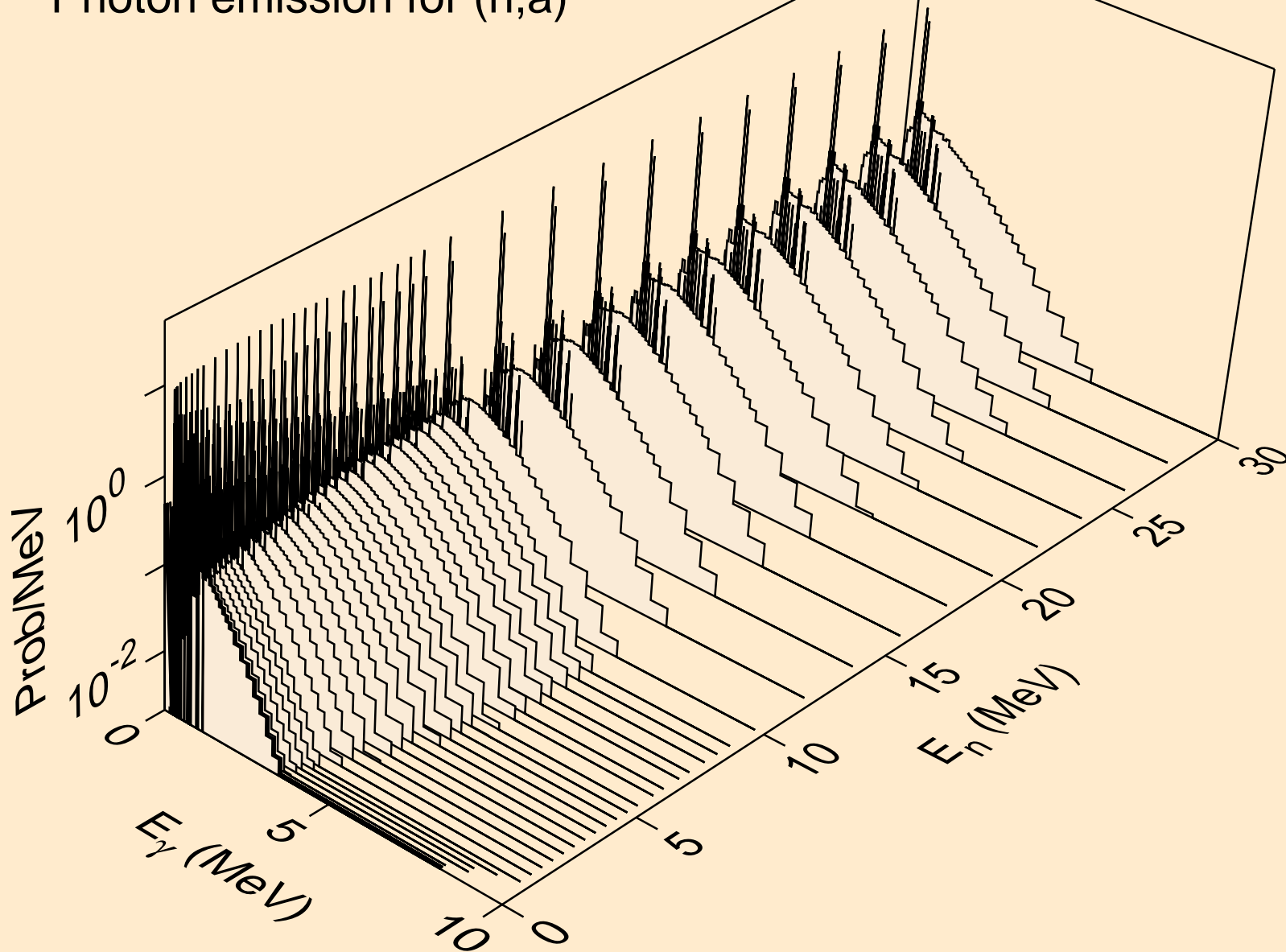
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,t)



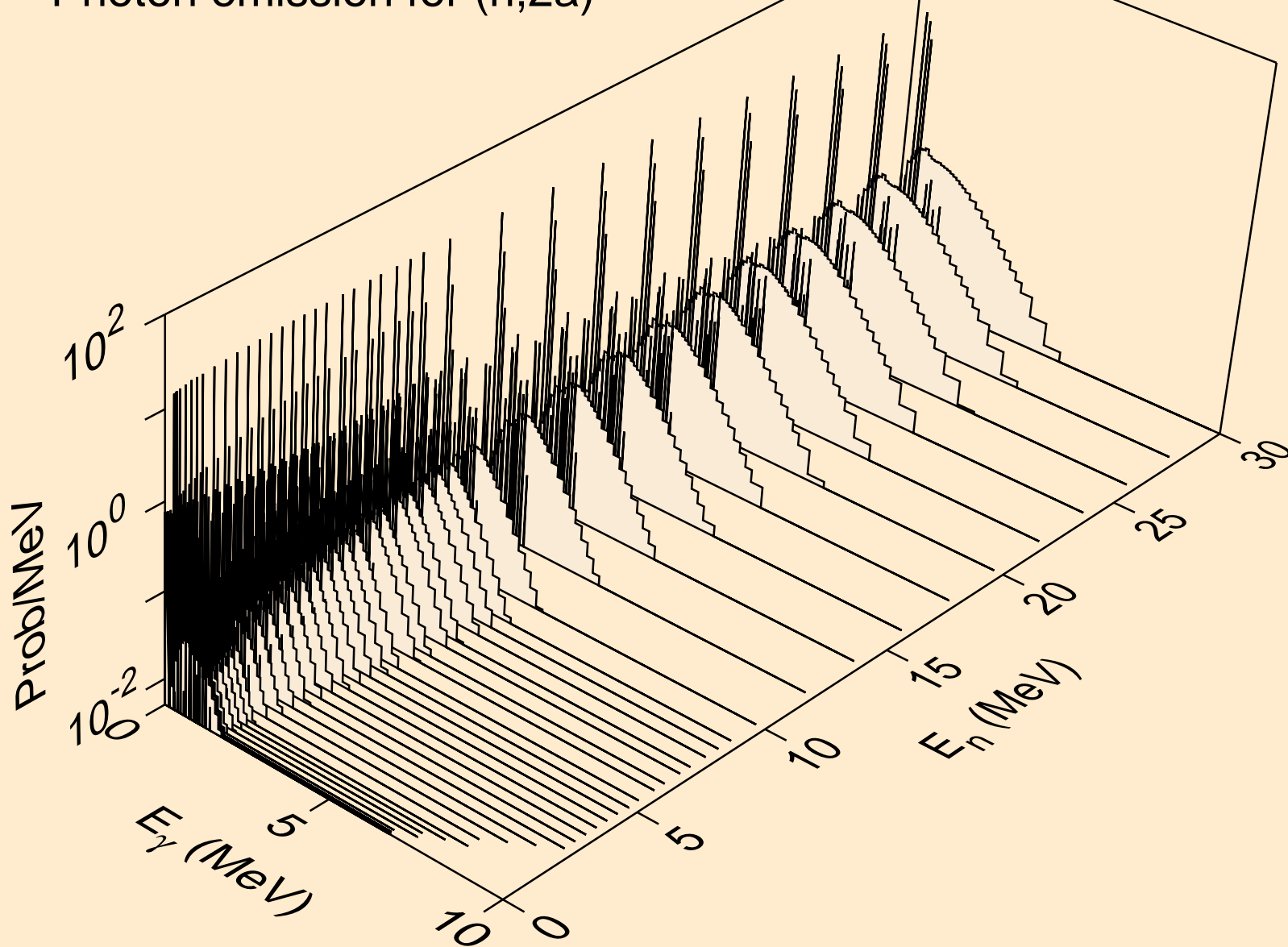
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,he3)



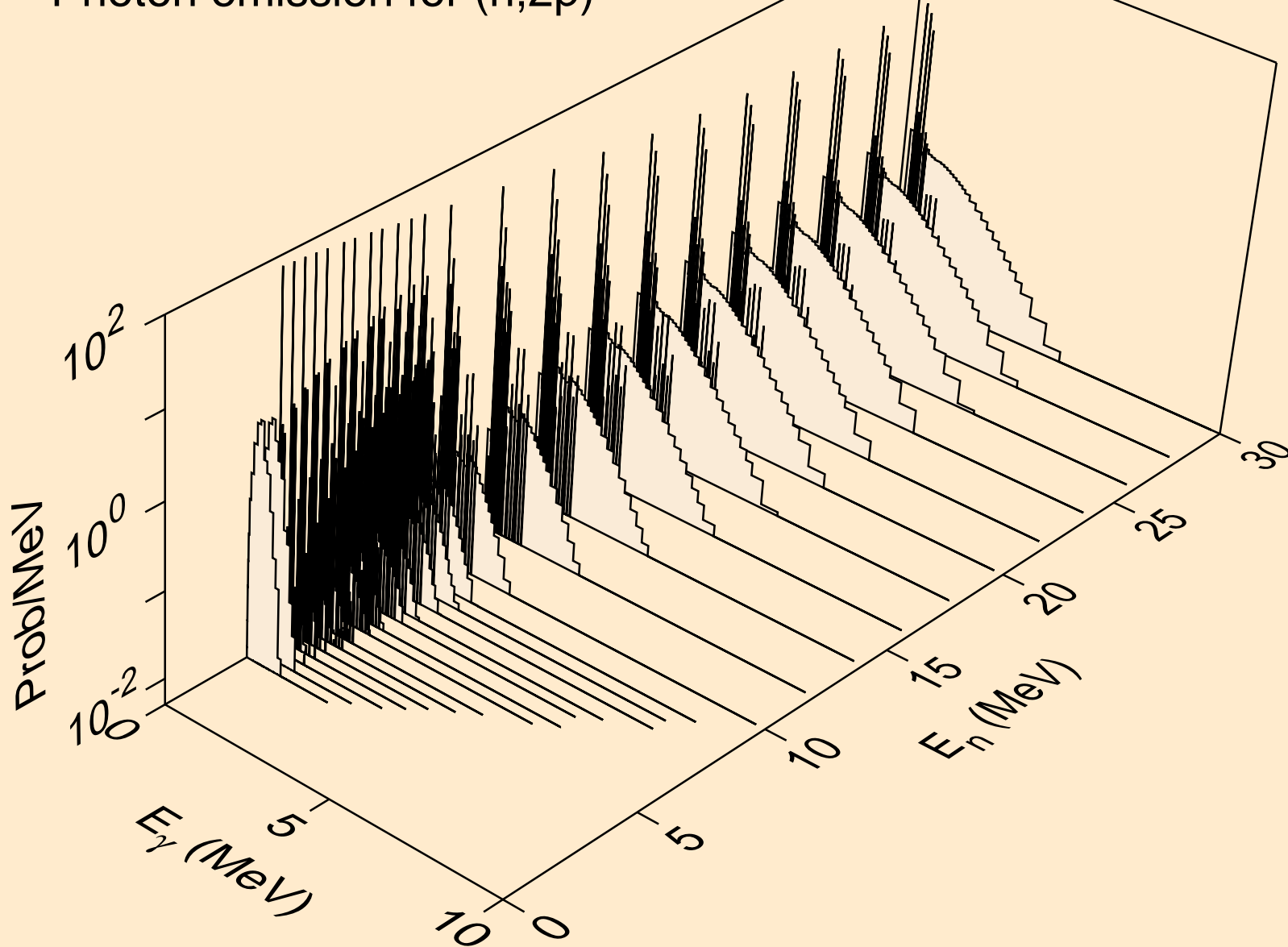
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,a)



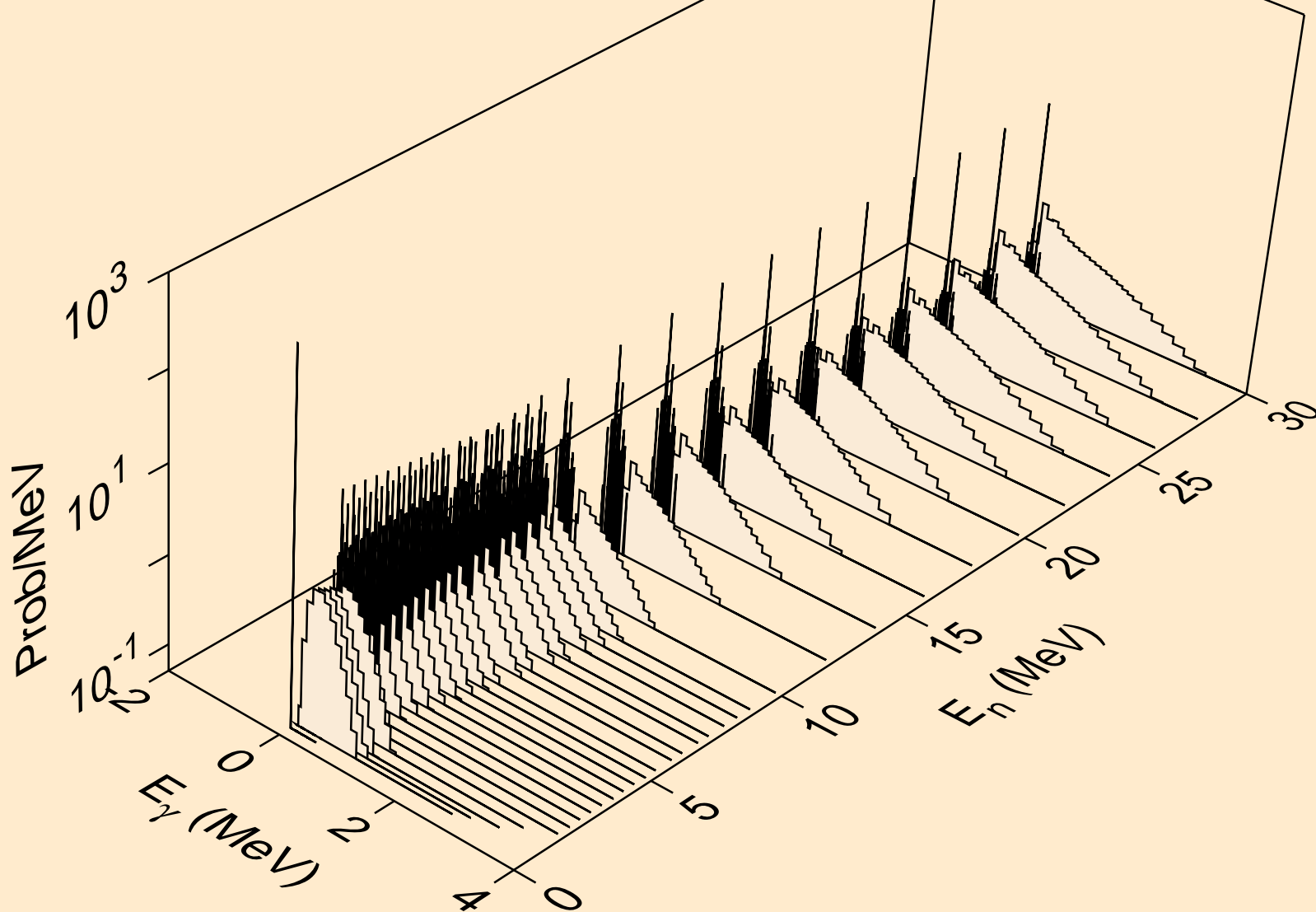
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,2a)



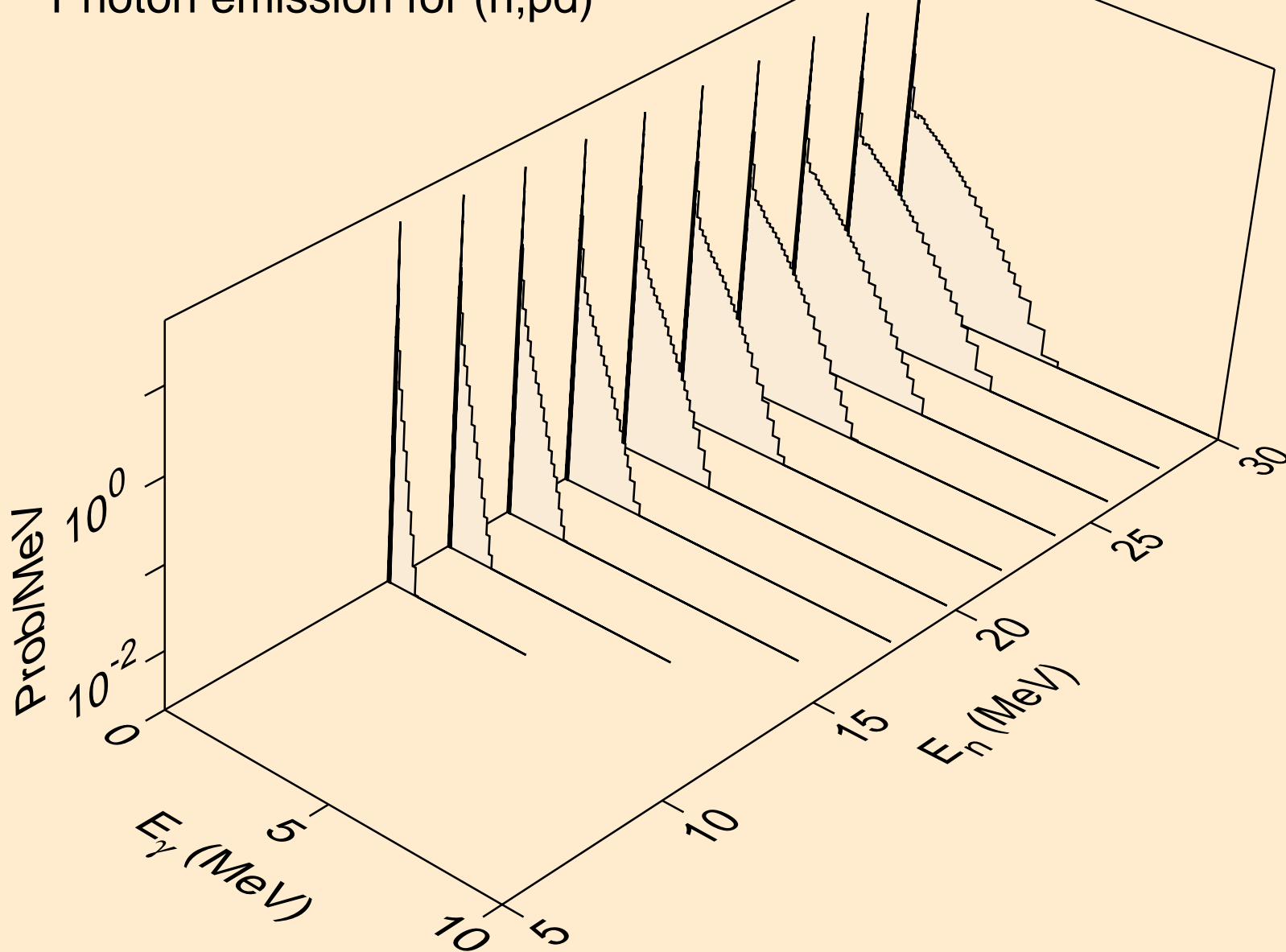
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,2p)



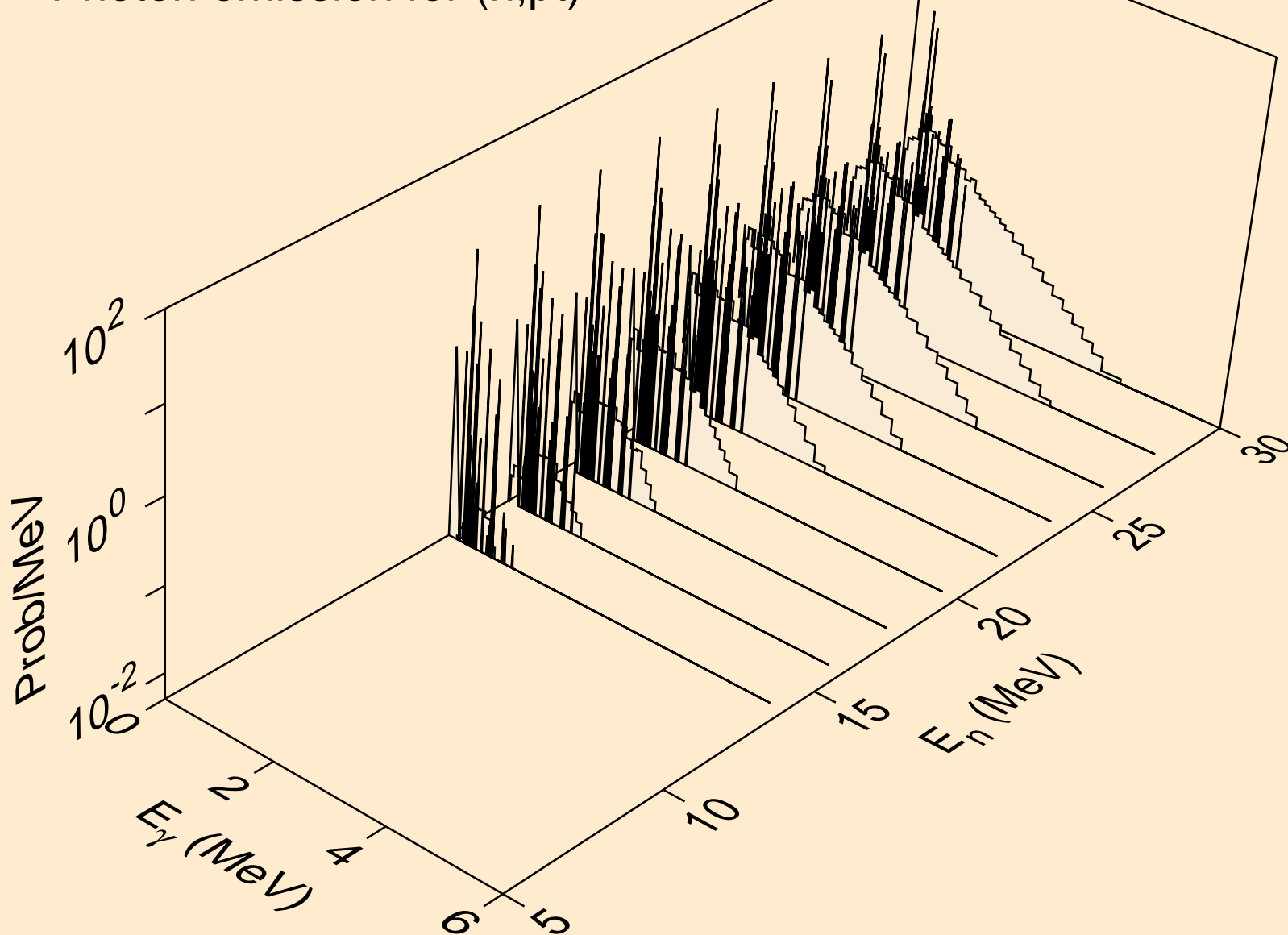
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,p α)



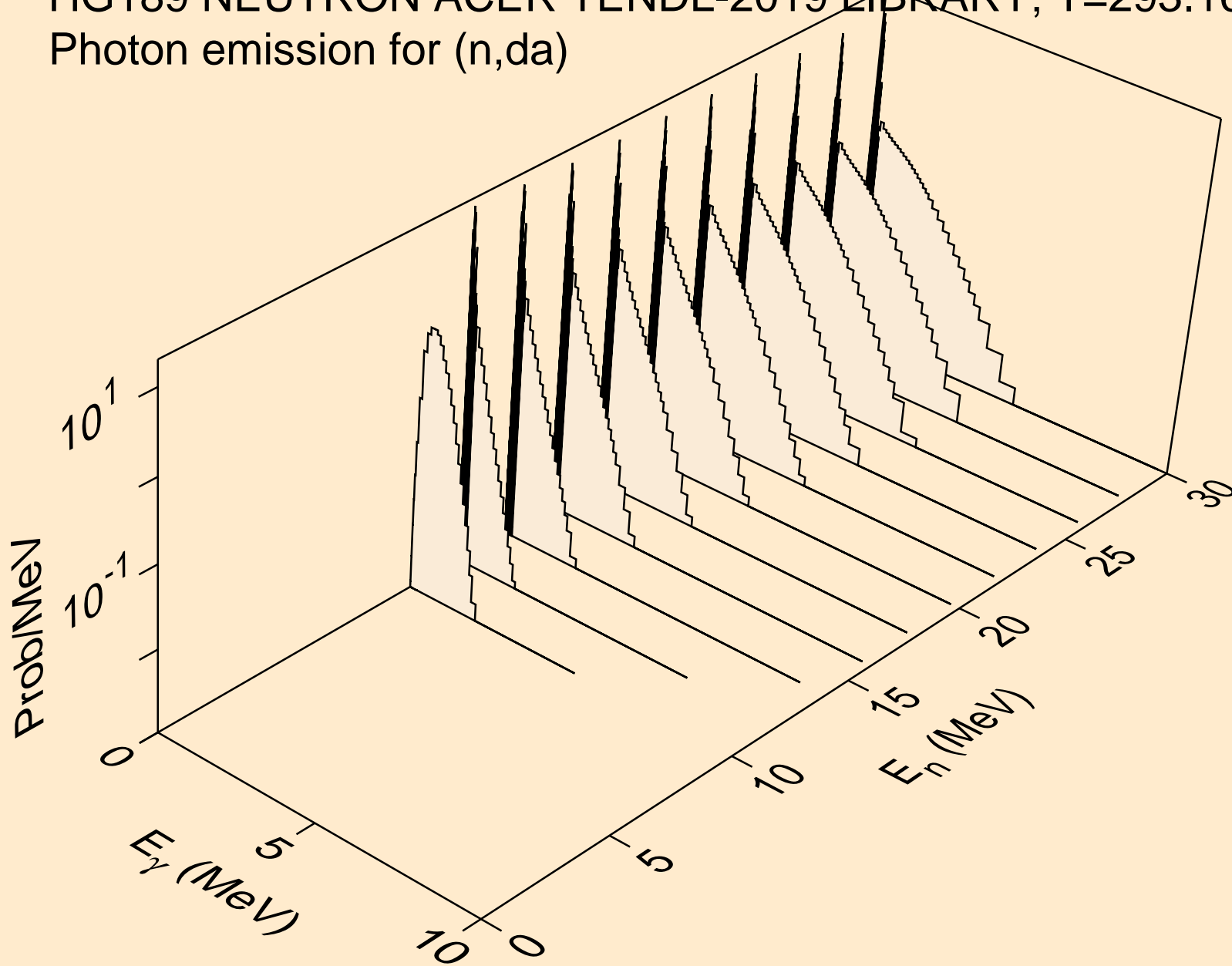
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,pd)



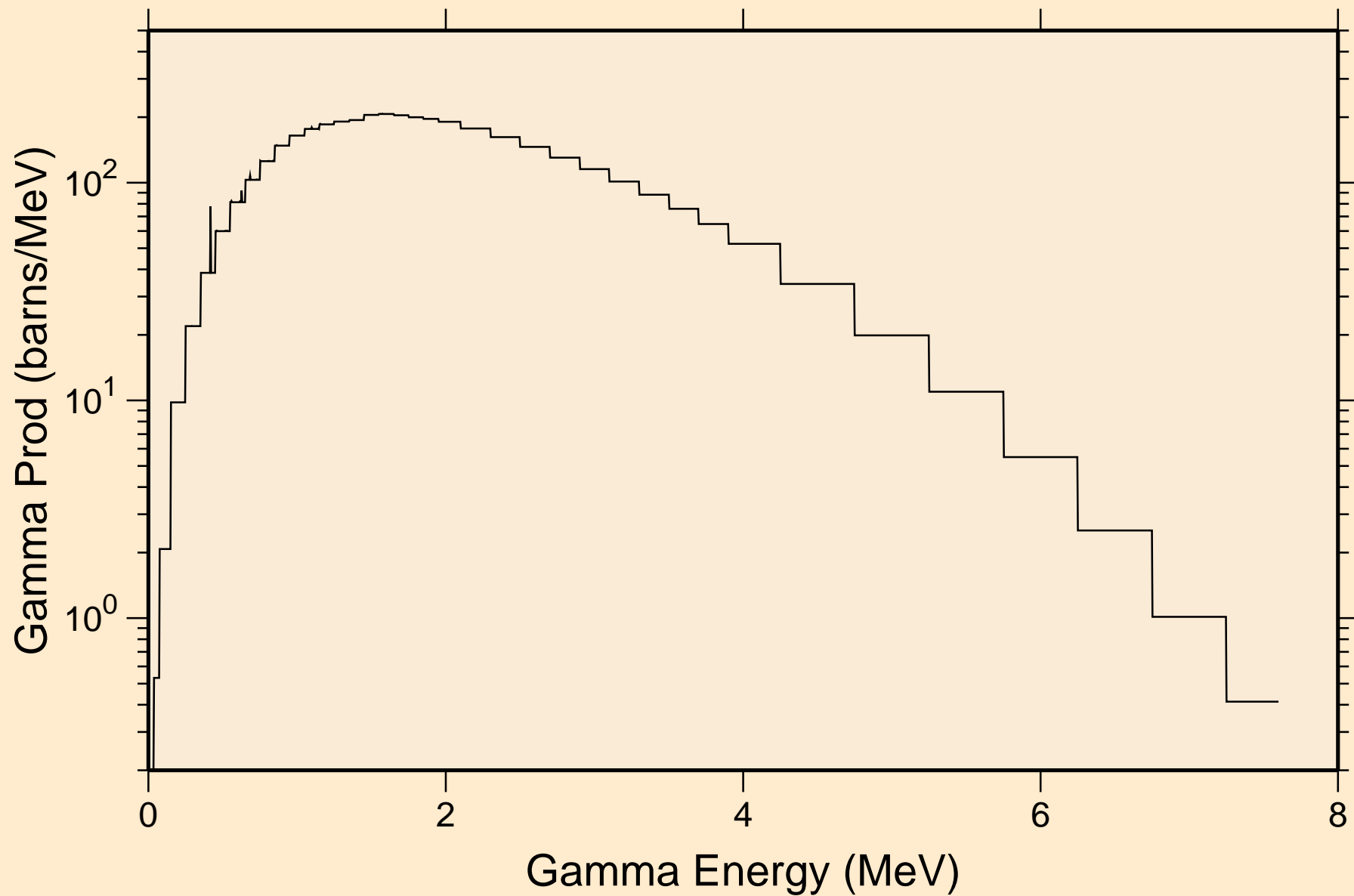
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,pt)



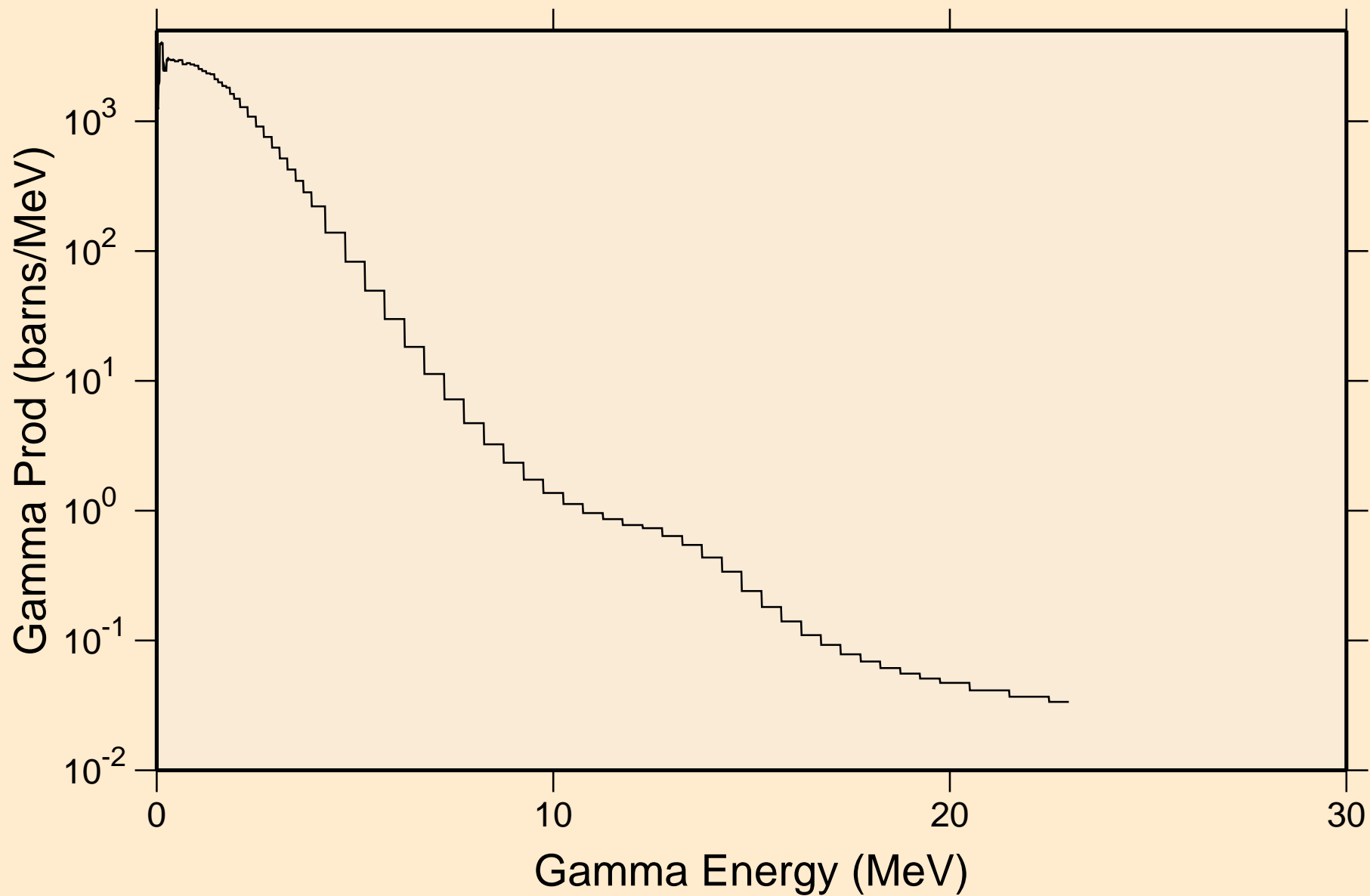
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,da)



HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
thermal capture photon spectrum

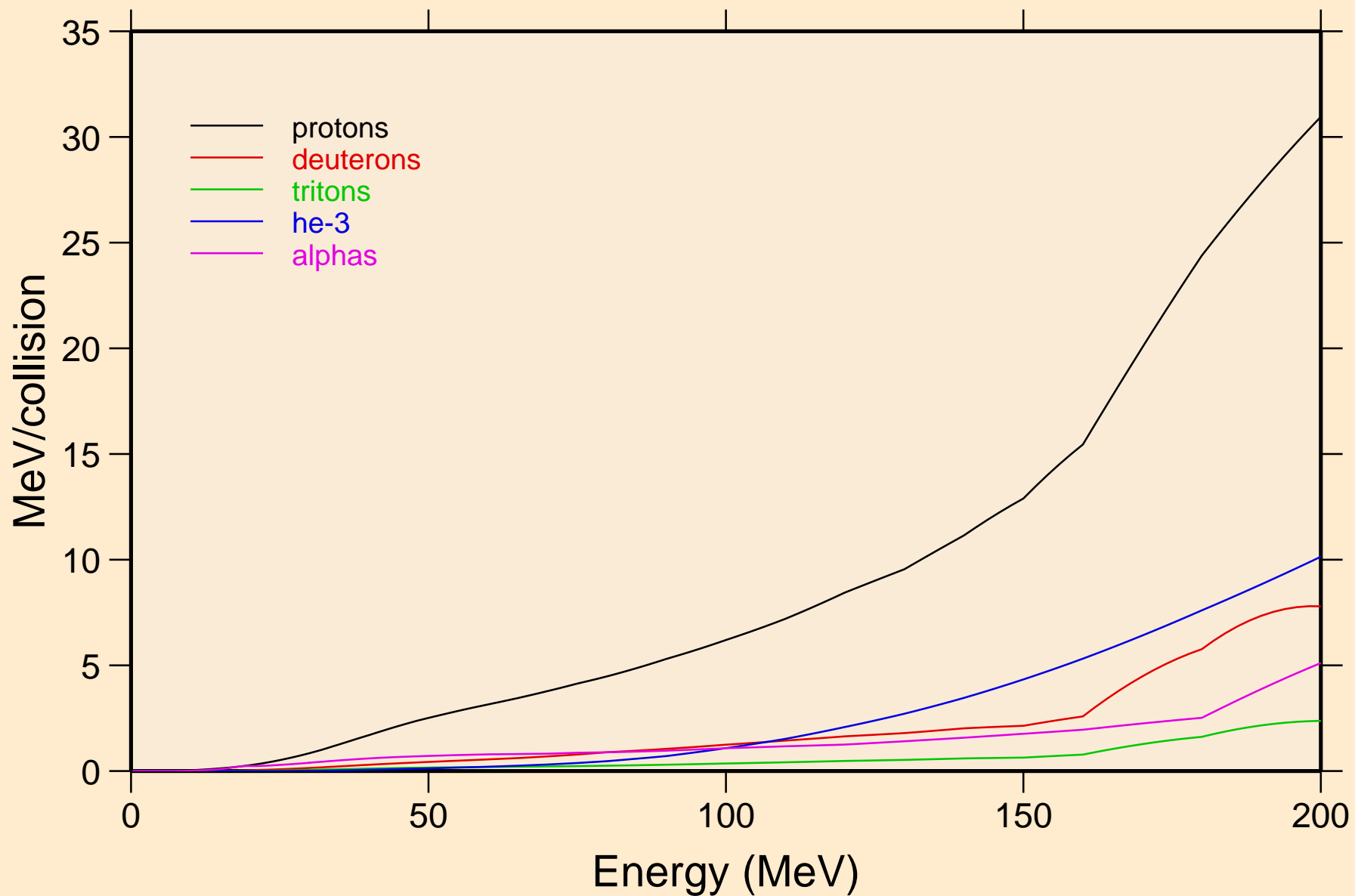


HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
14 MeV photon spectrum

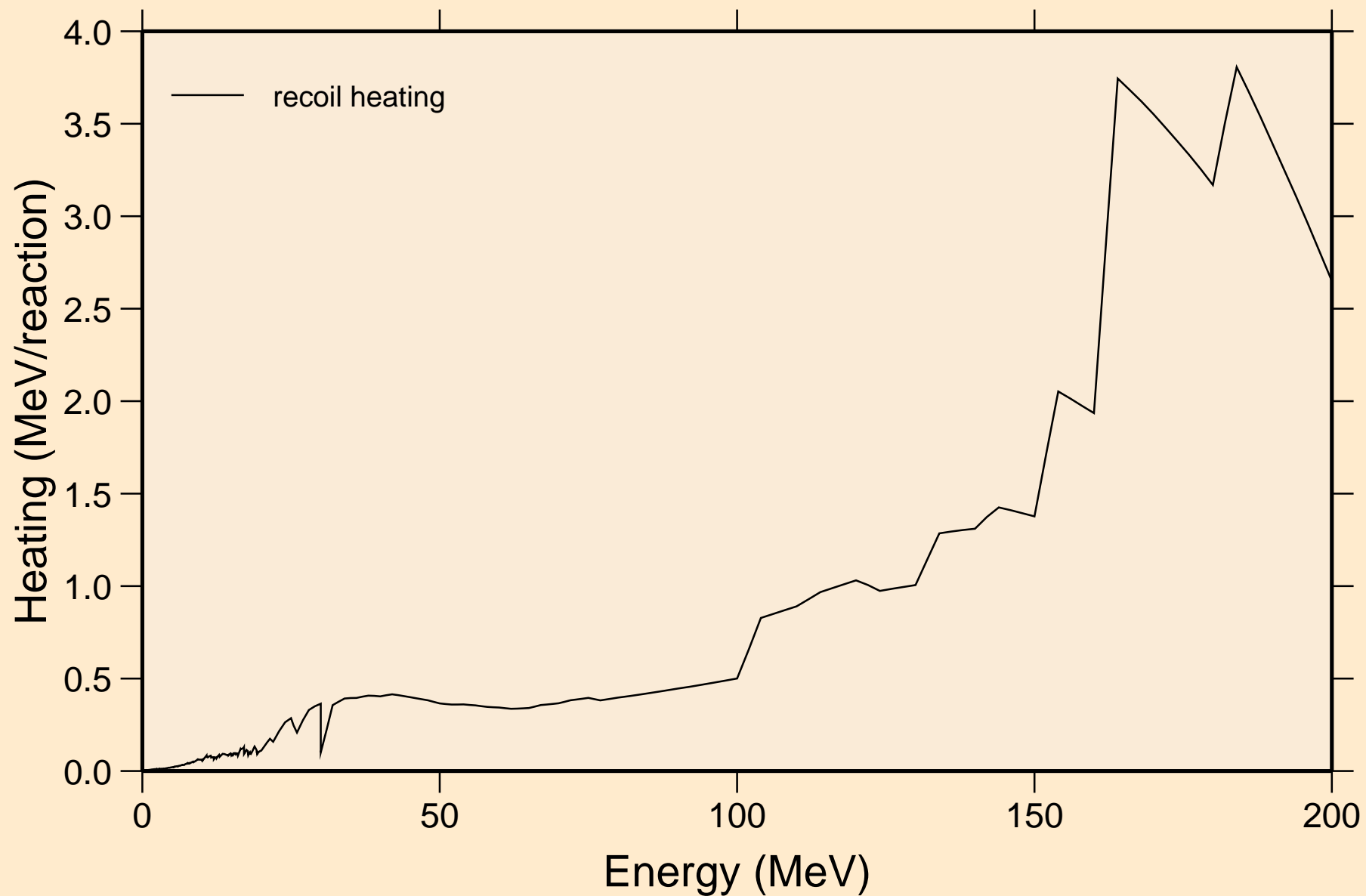


HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

Particle heating contributions

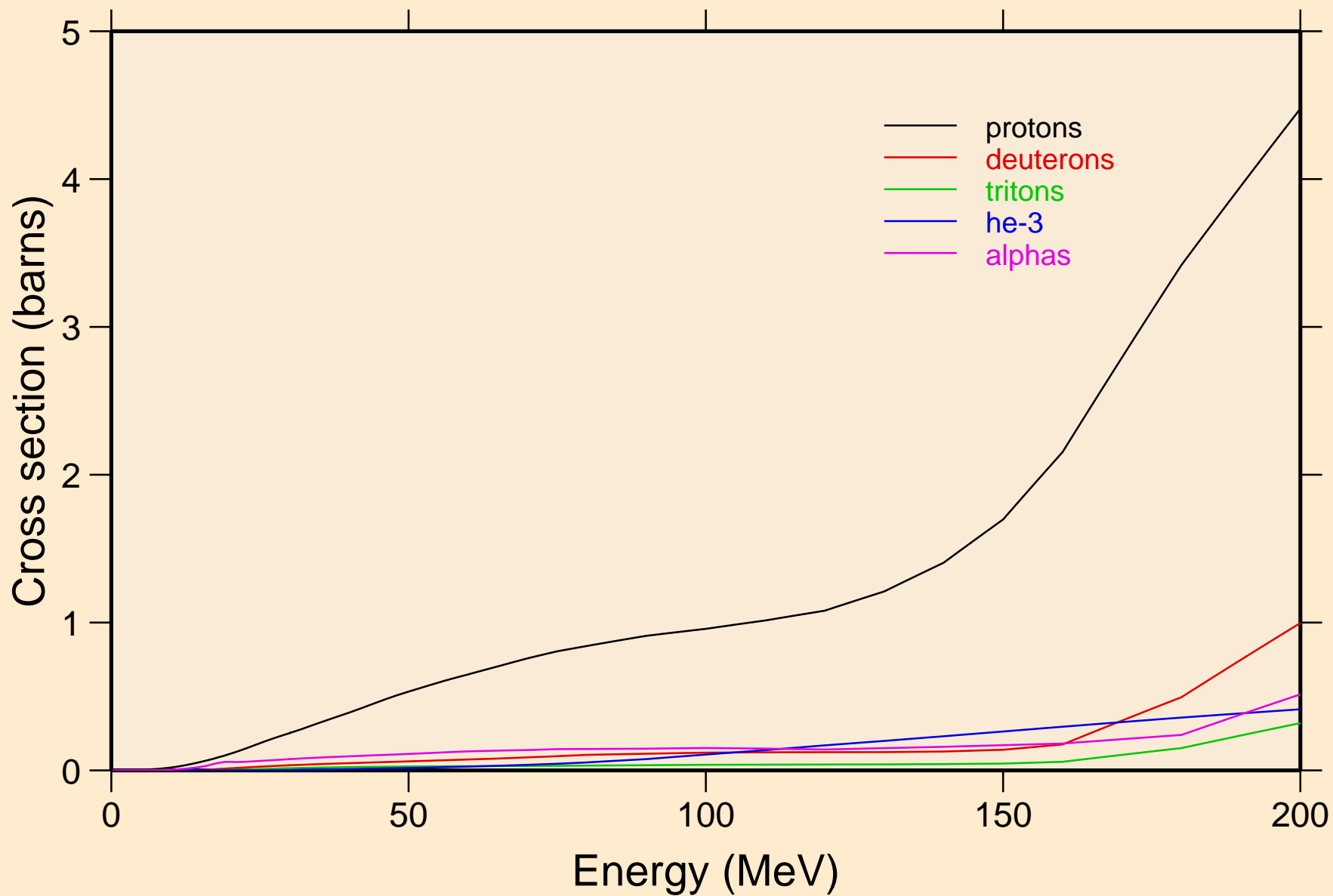


HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Recoil Heating

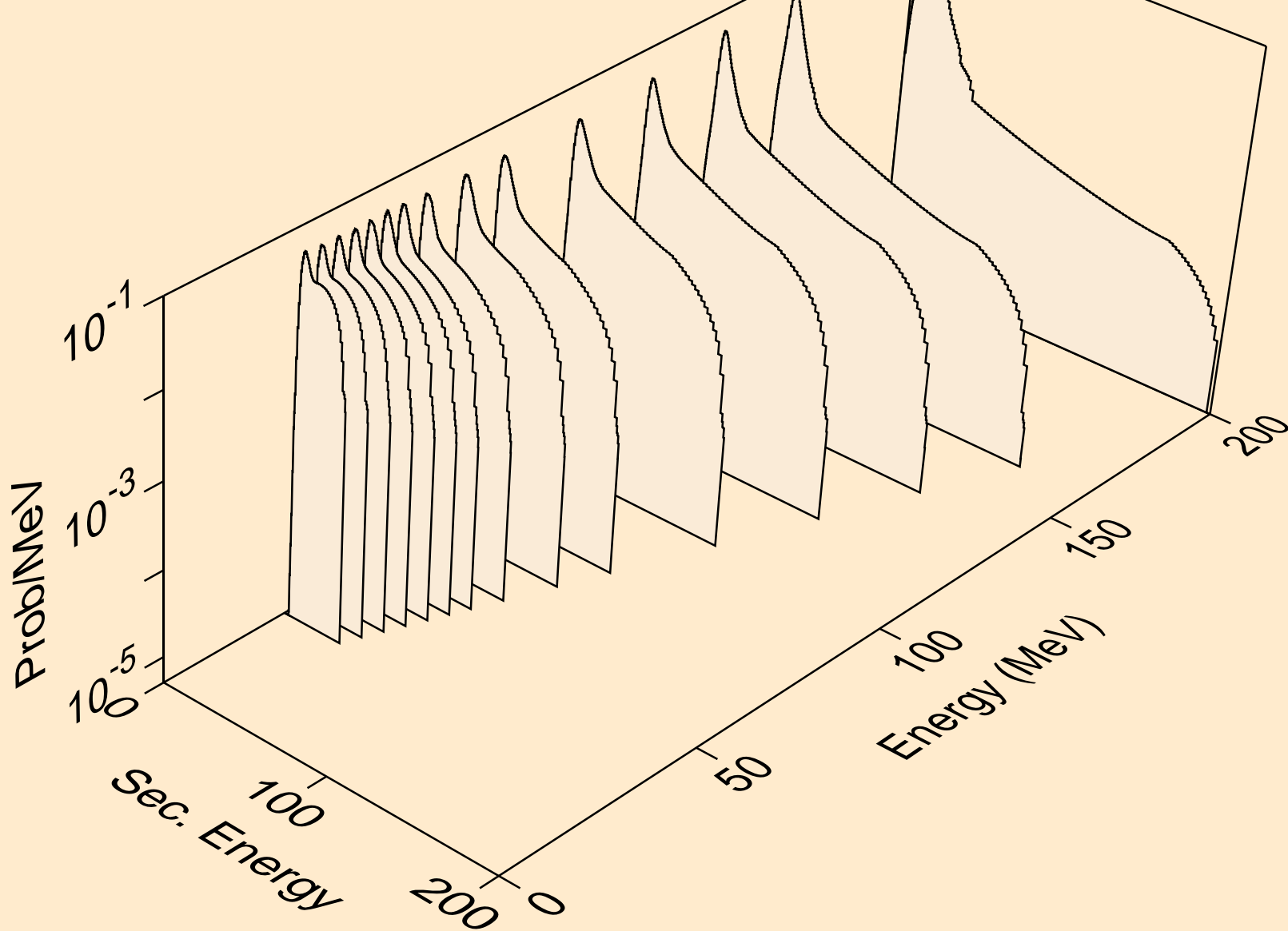


HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

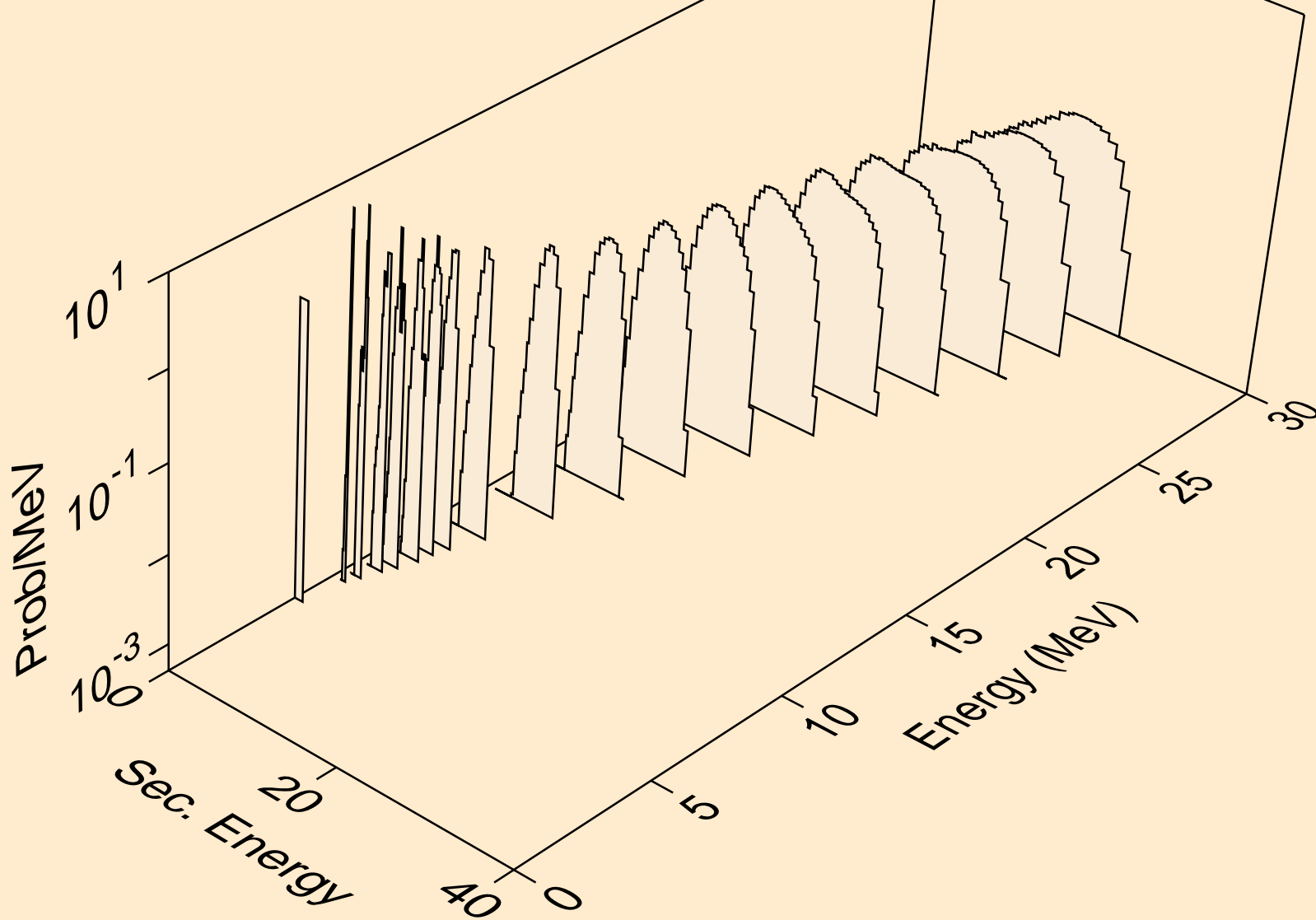
Particle production cross sections



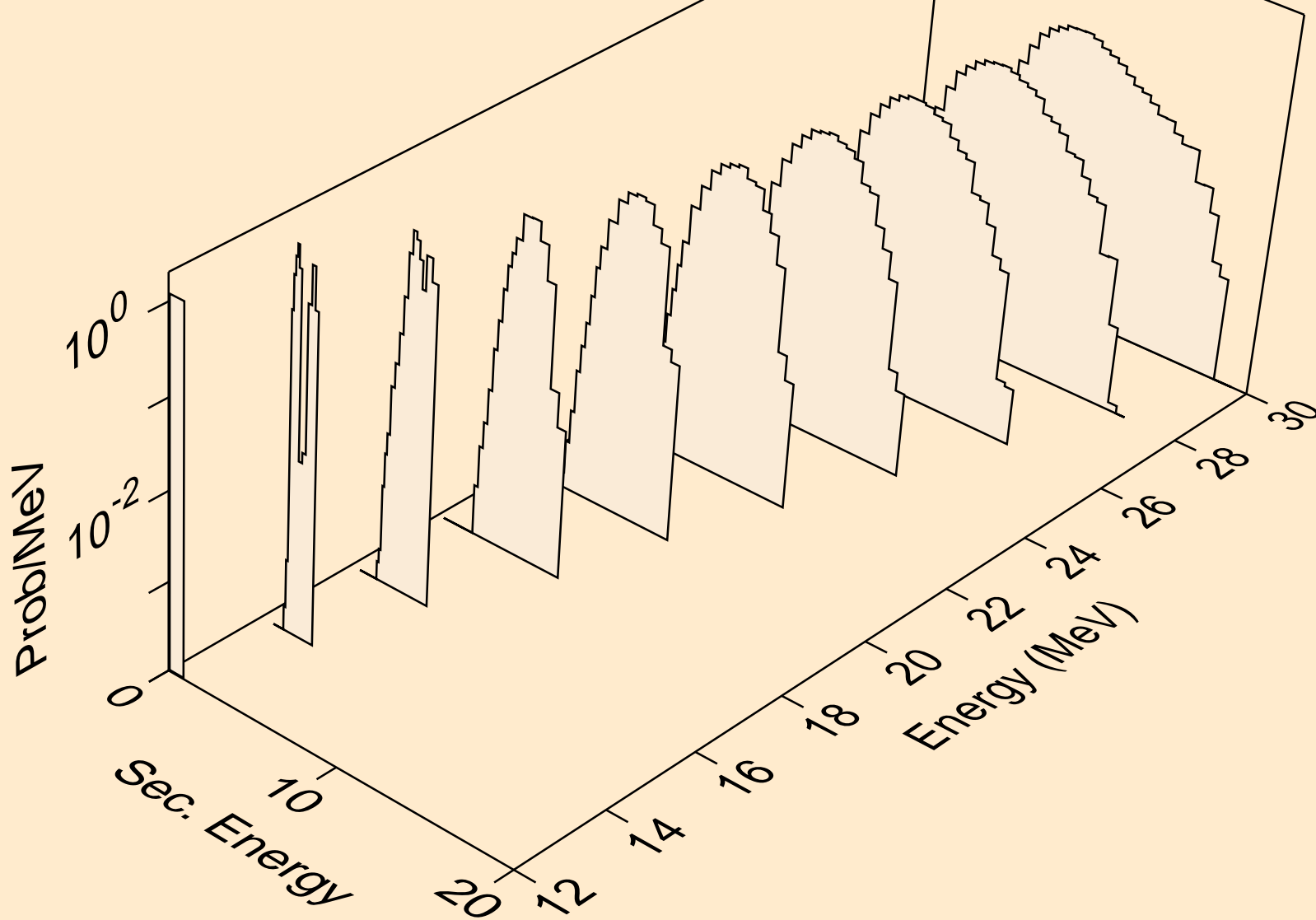
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,x)



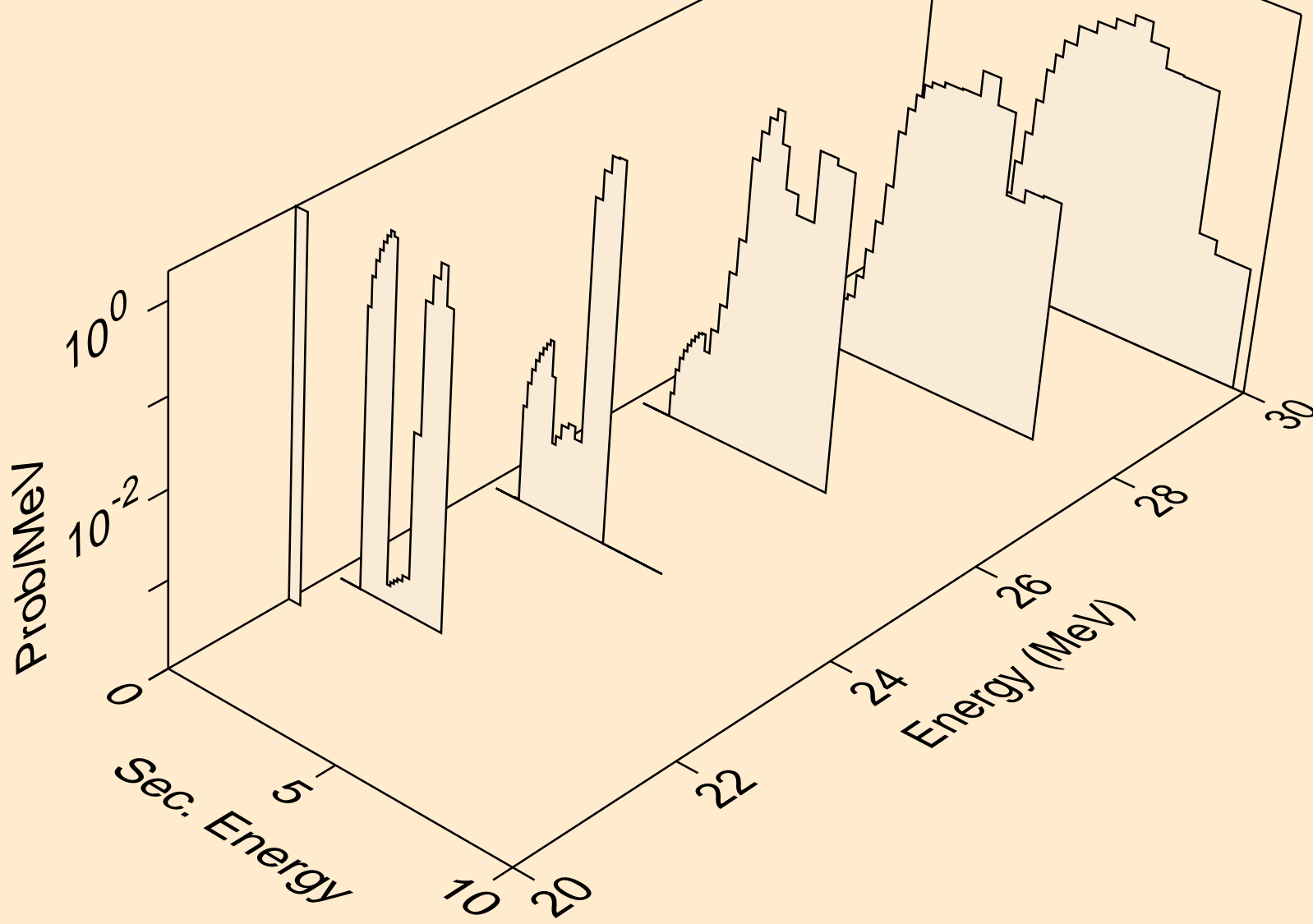
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,n*)p



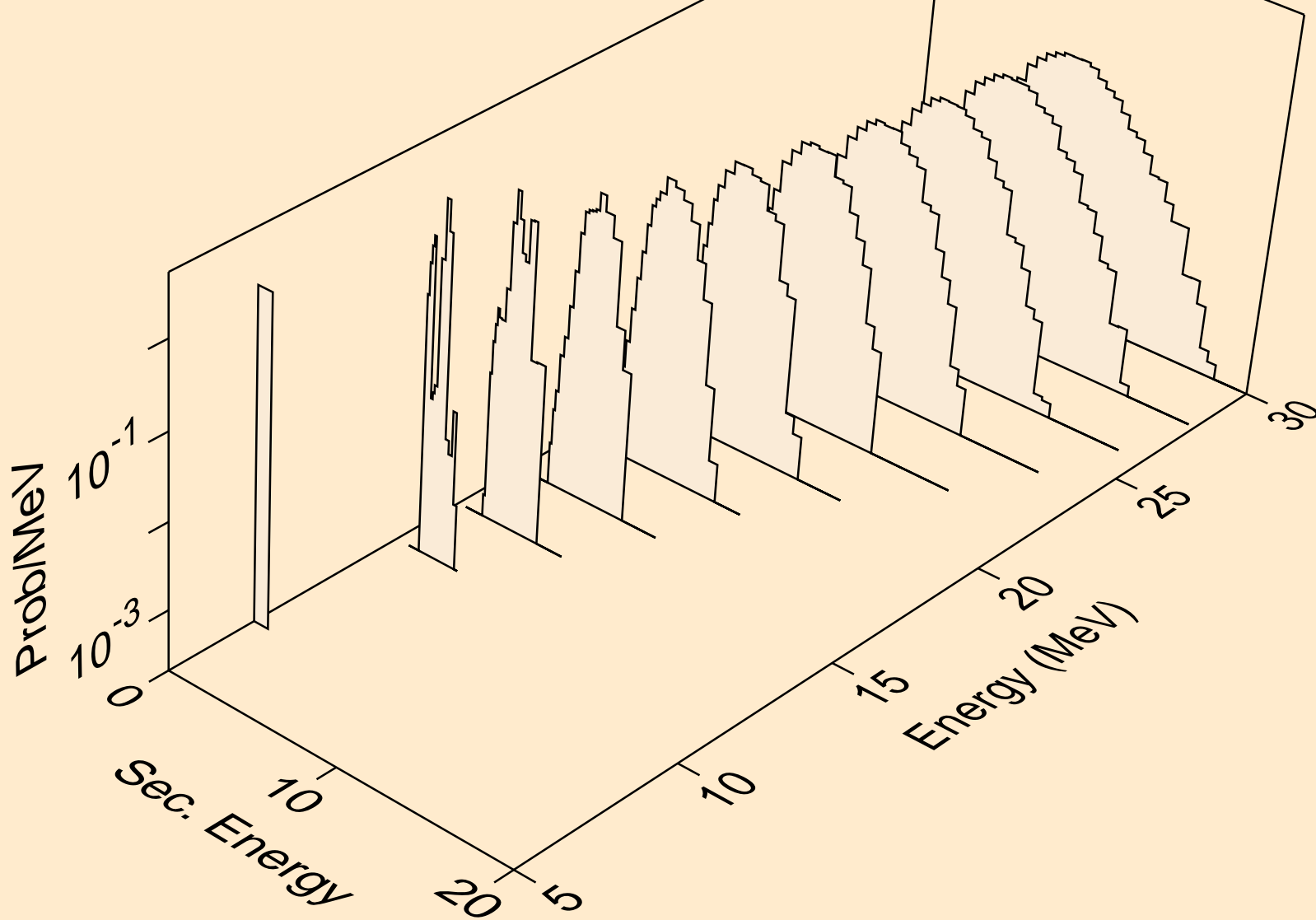
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protons from (n,2np)



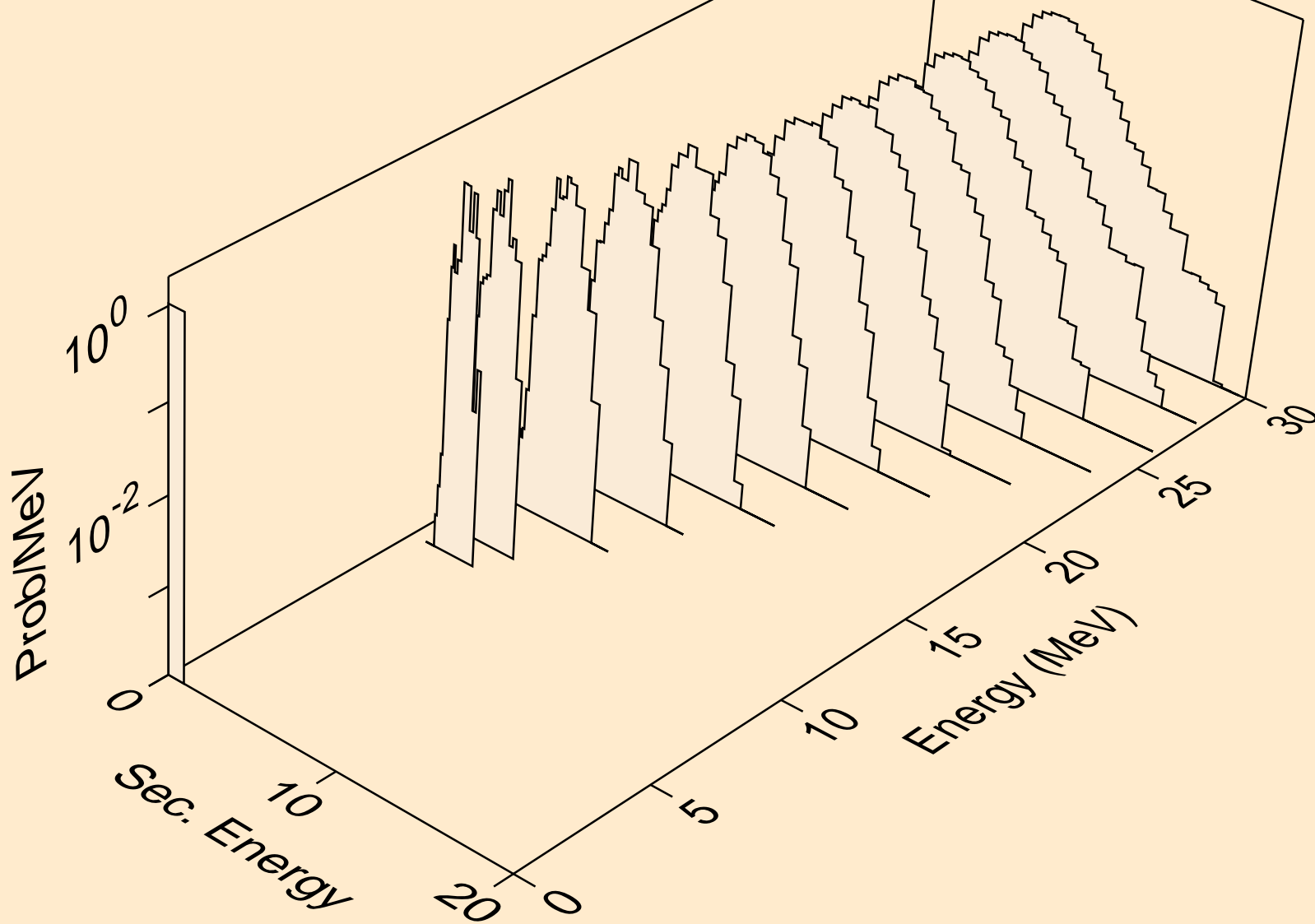
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protons from (n,3np)



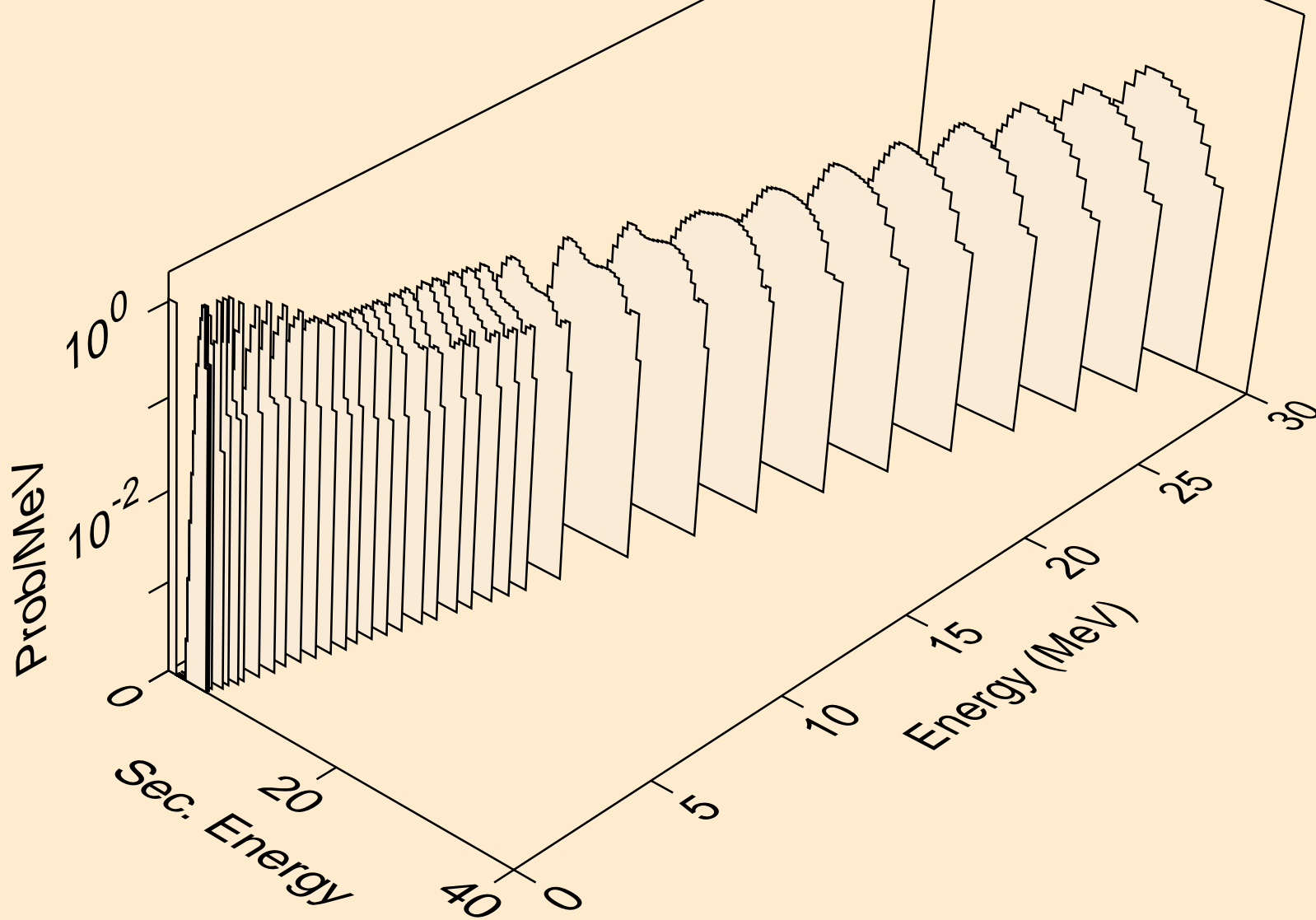
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protons from (n,2np)



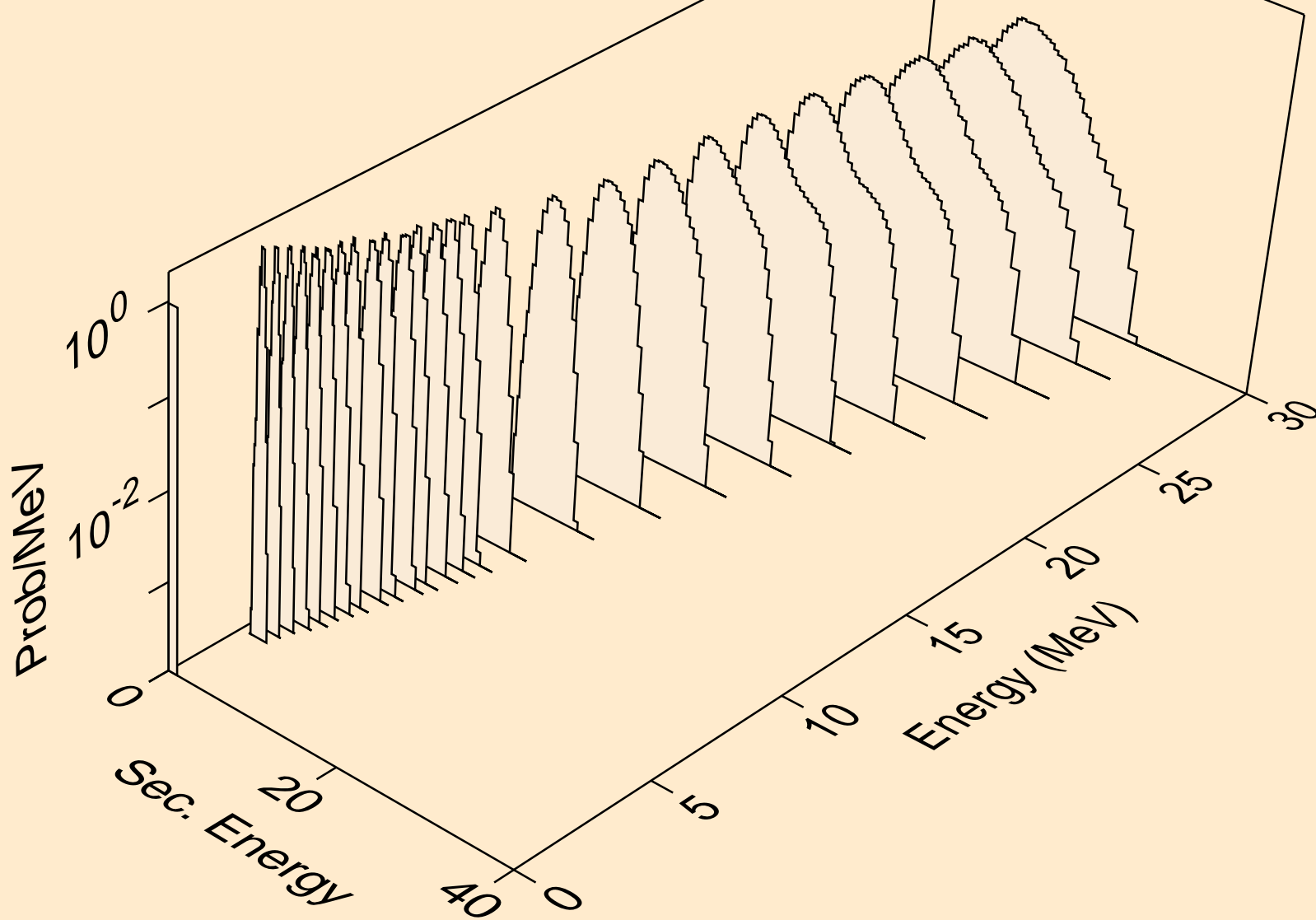
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protons from (n,npa)



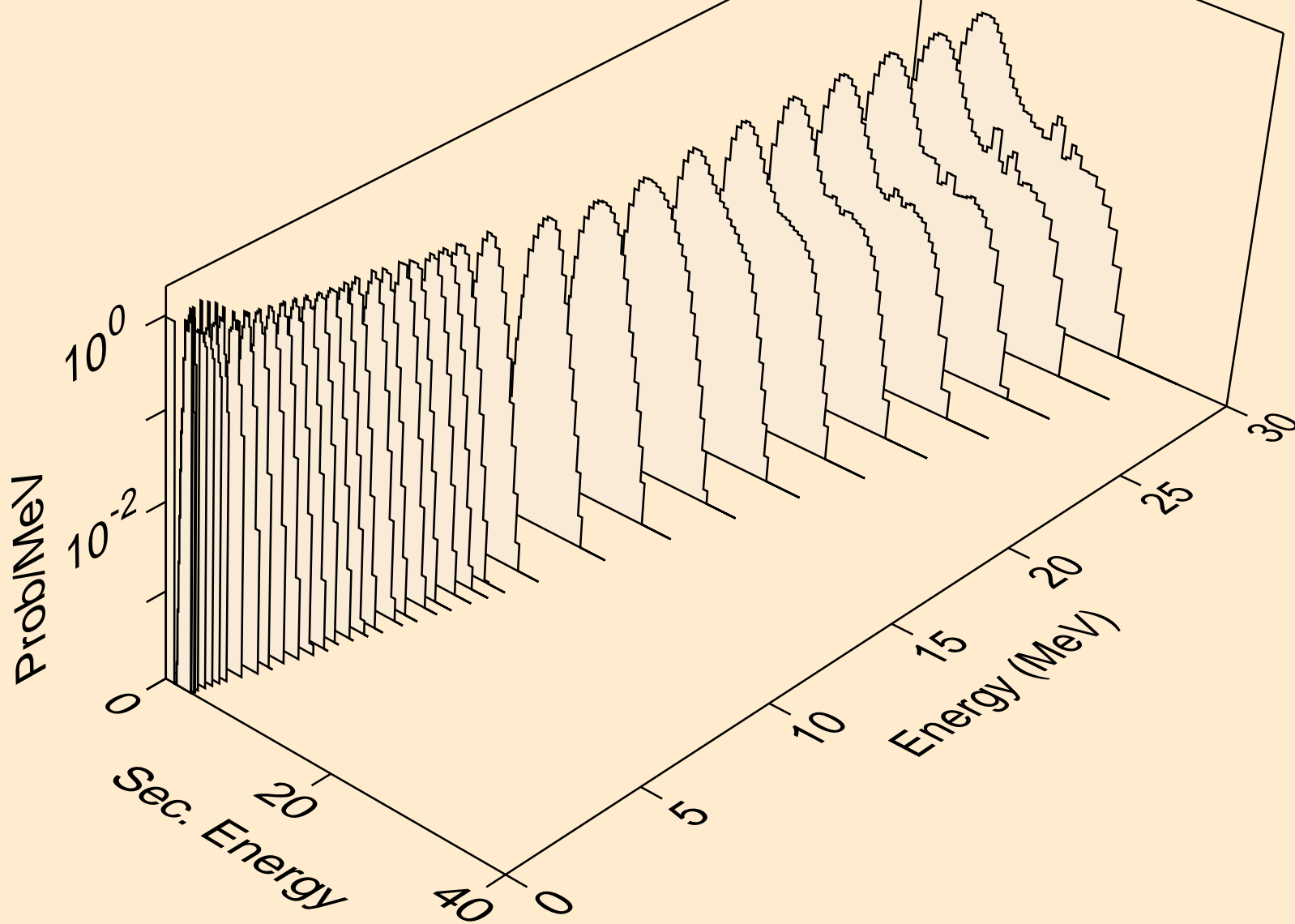
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,p)



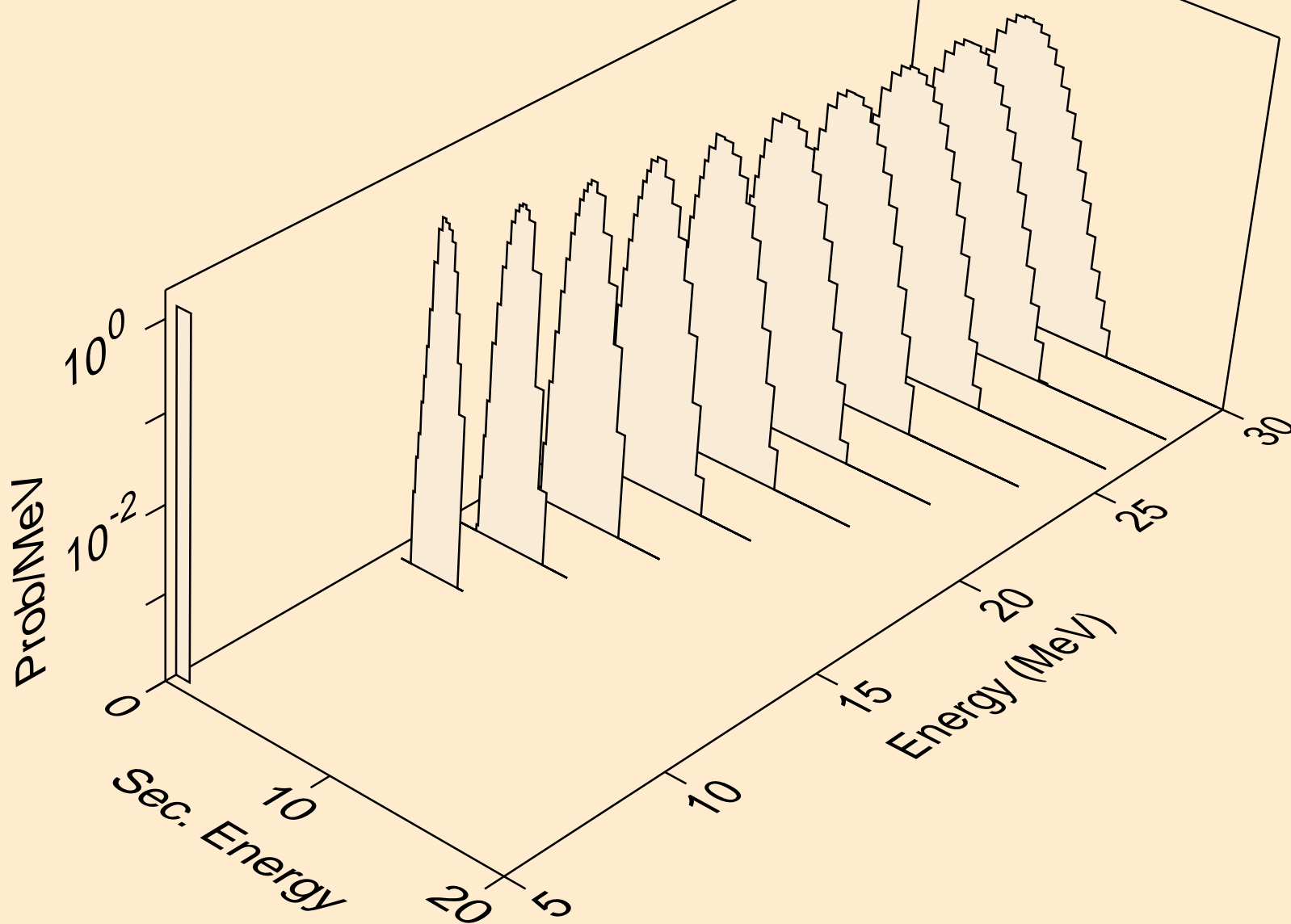
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protons from (n,2p)



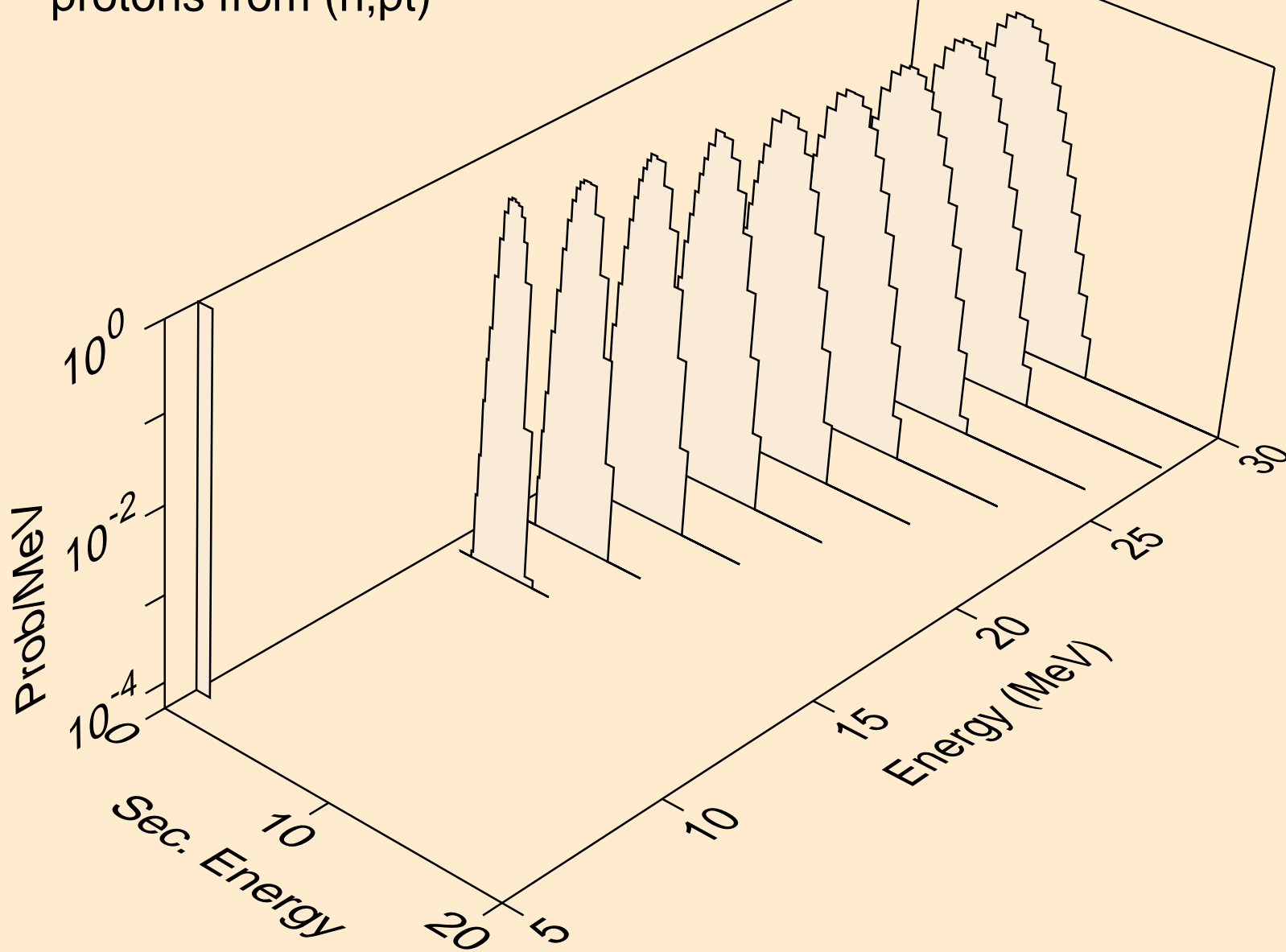
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protons from (n,p)



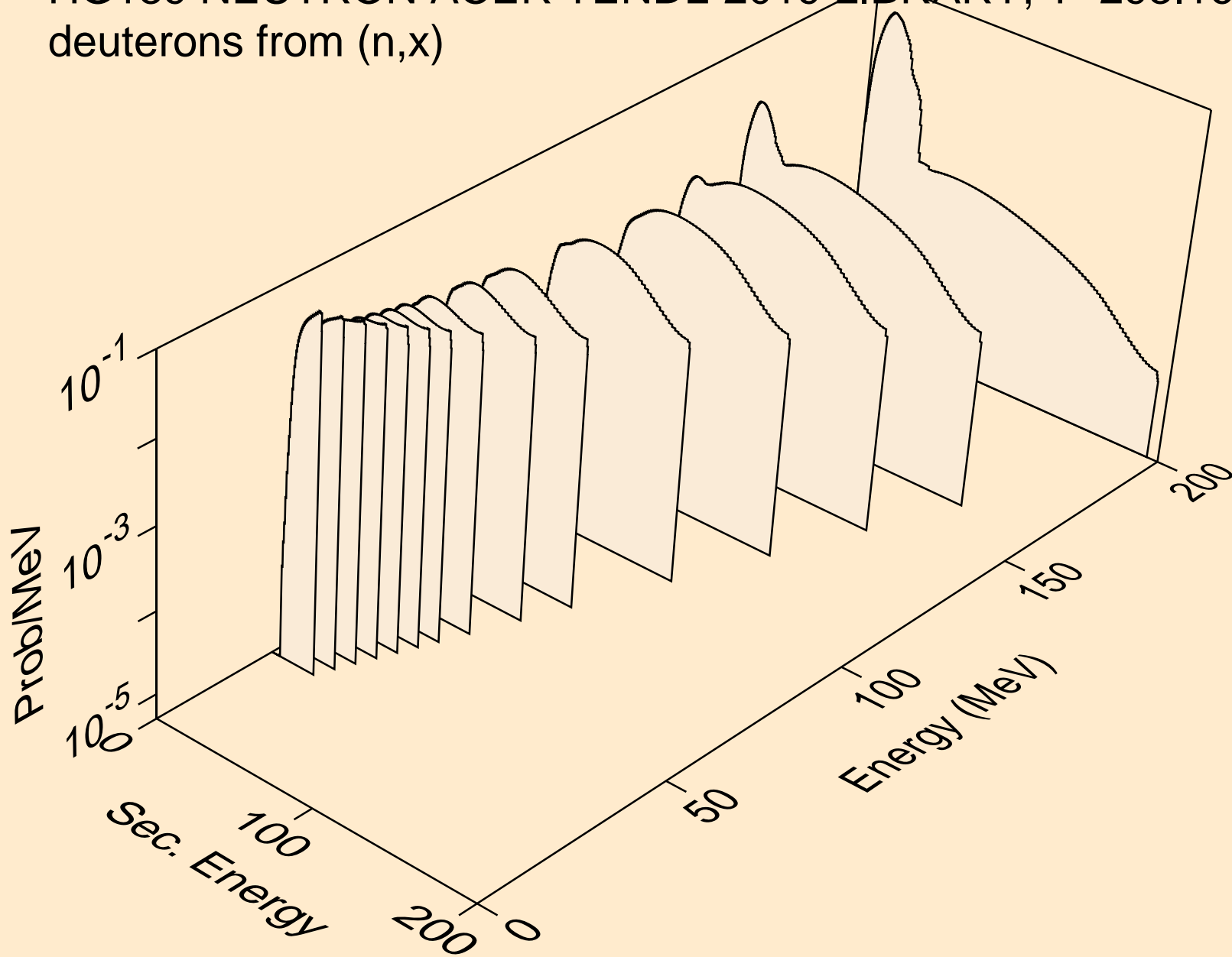
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protons from (n,pd)



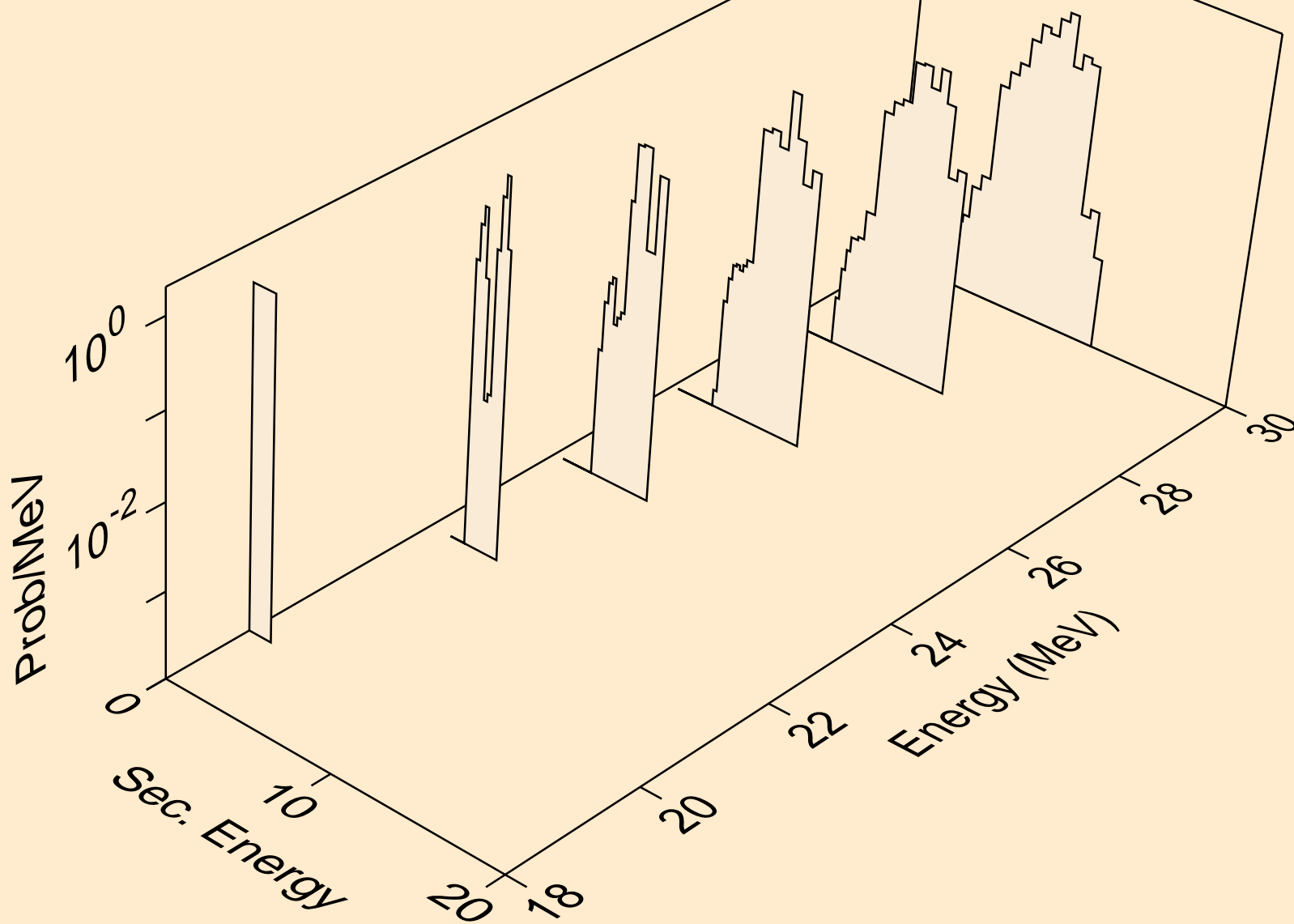
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protons from (n,pt)



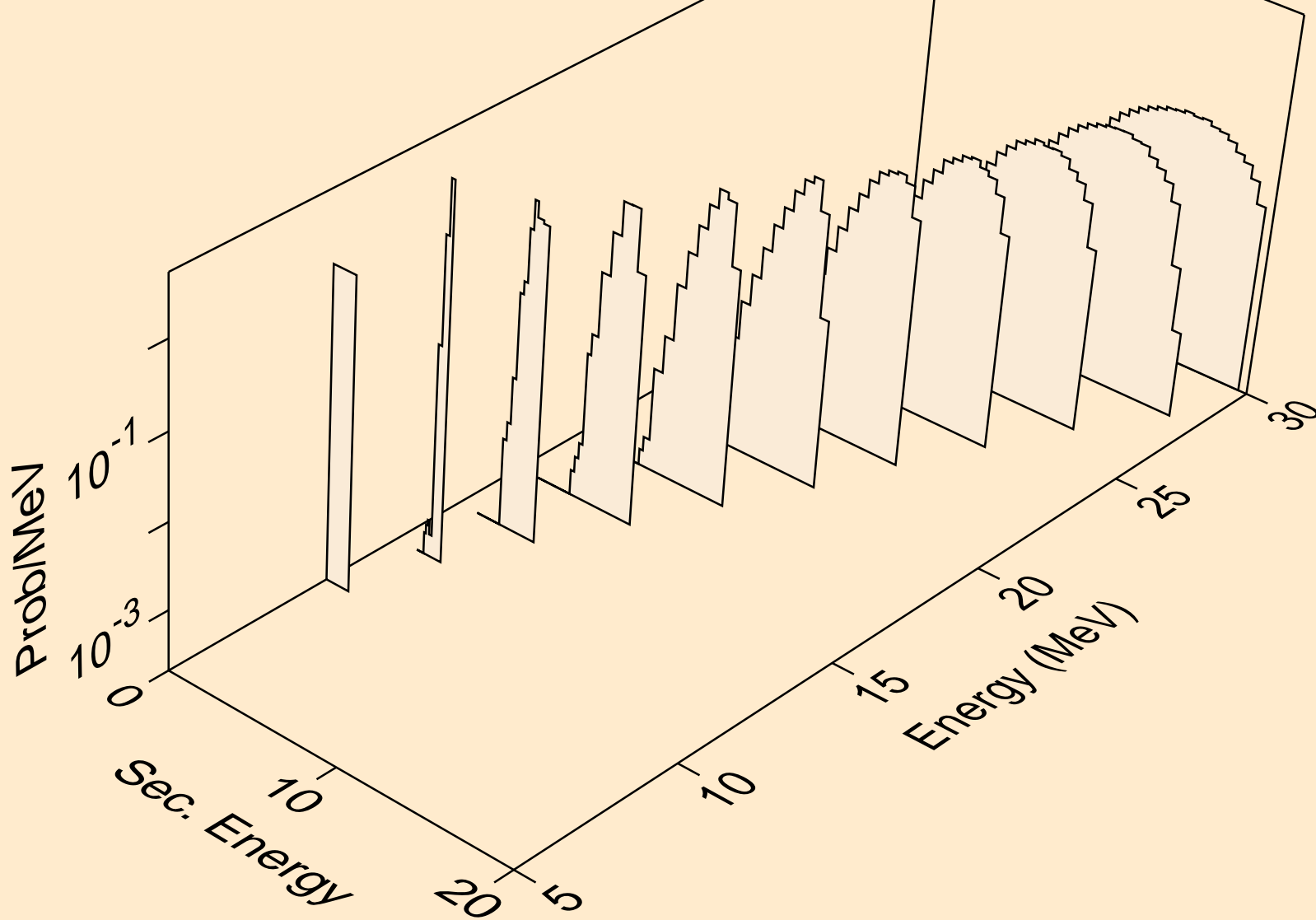
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
deuterons from (n,x)



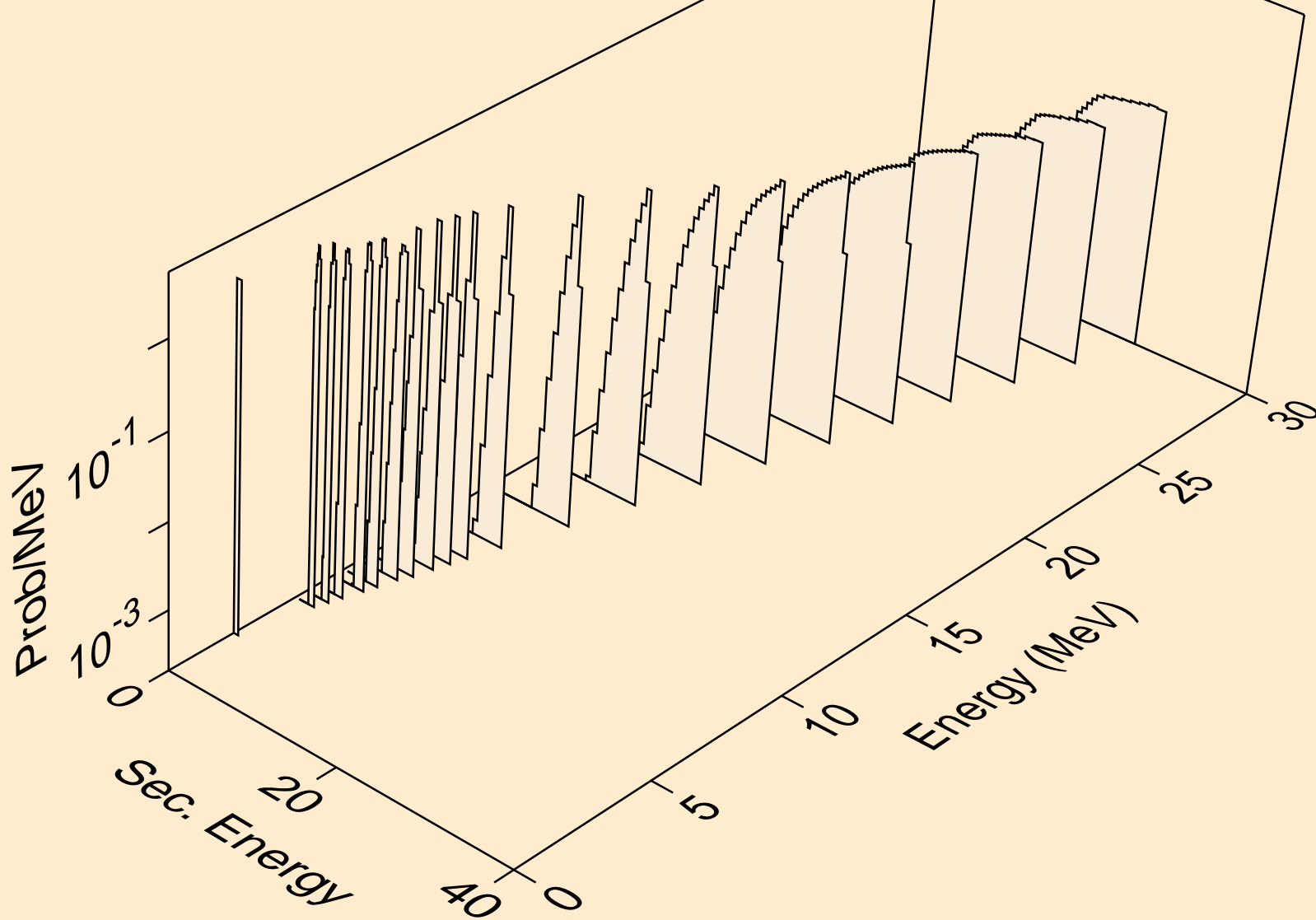
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deuterons from (n,2nd)



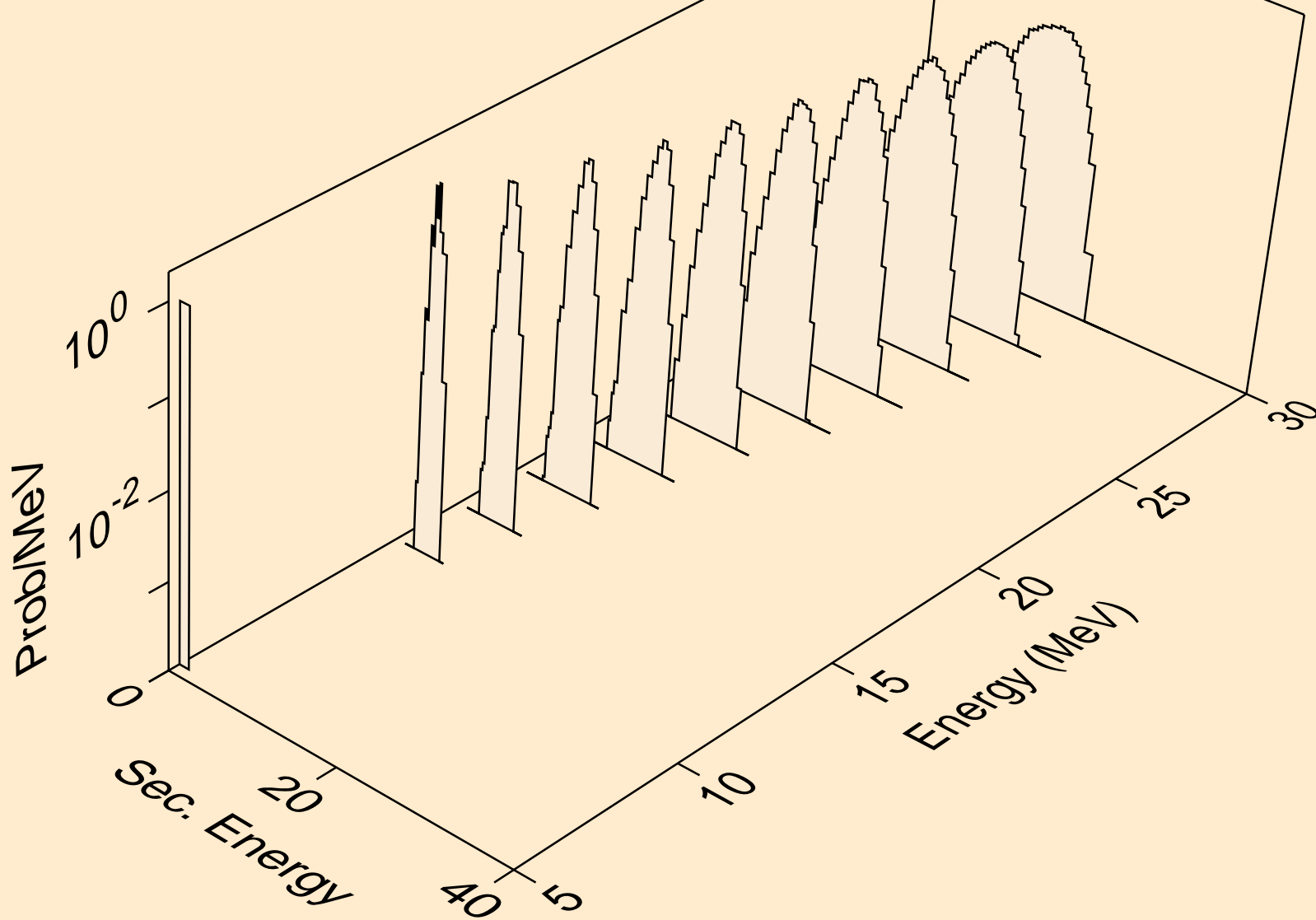
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deuterons from (n,n*)d



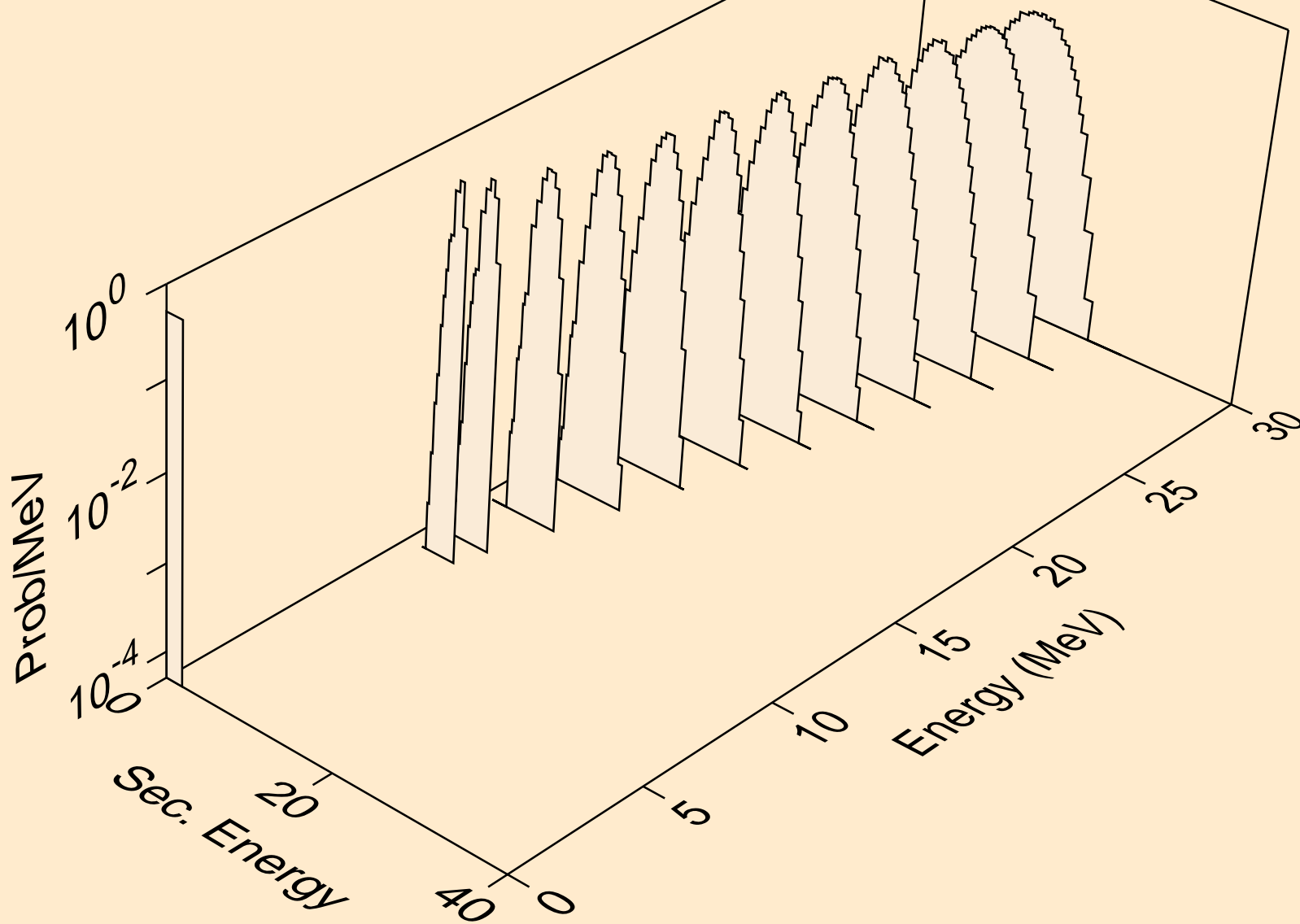
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deuterons from (n,d)



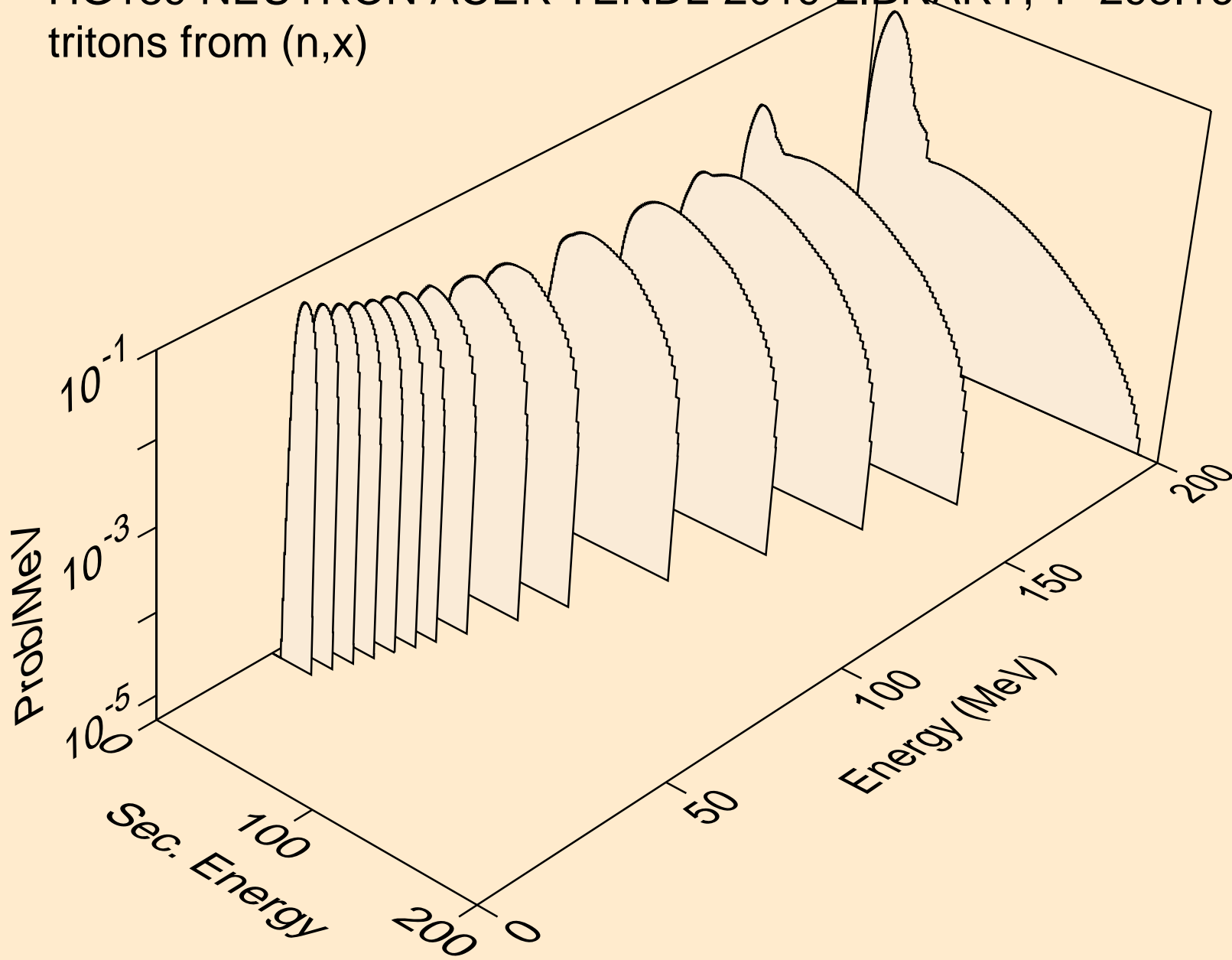
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deuterons from (n,pd)



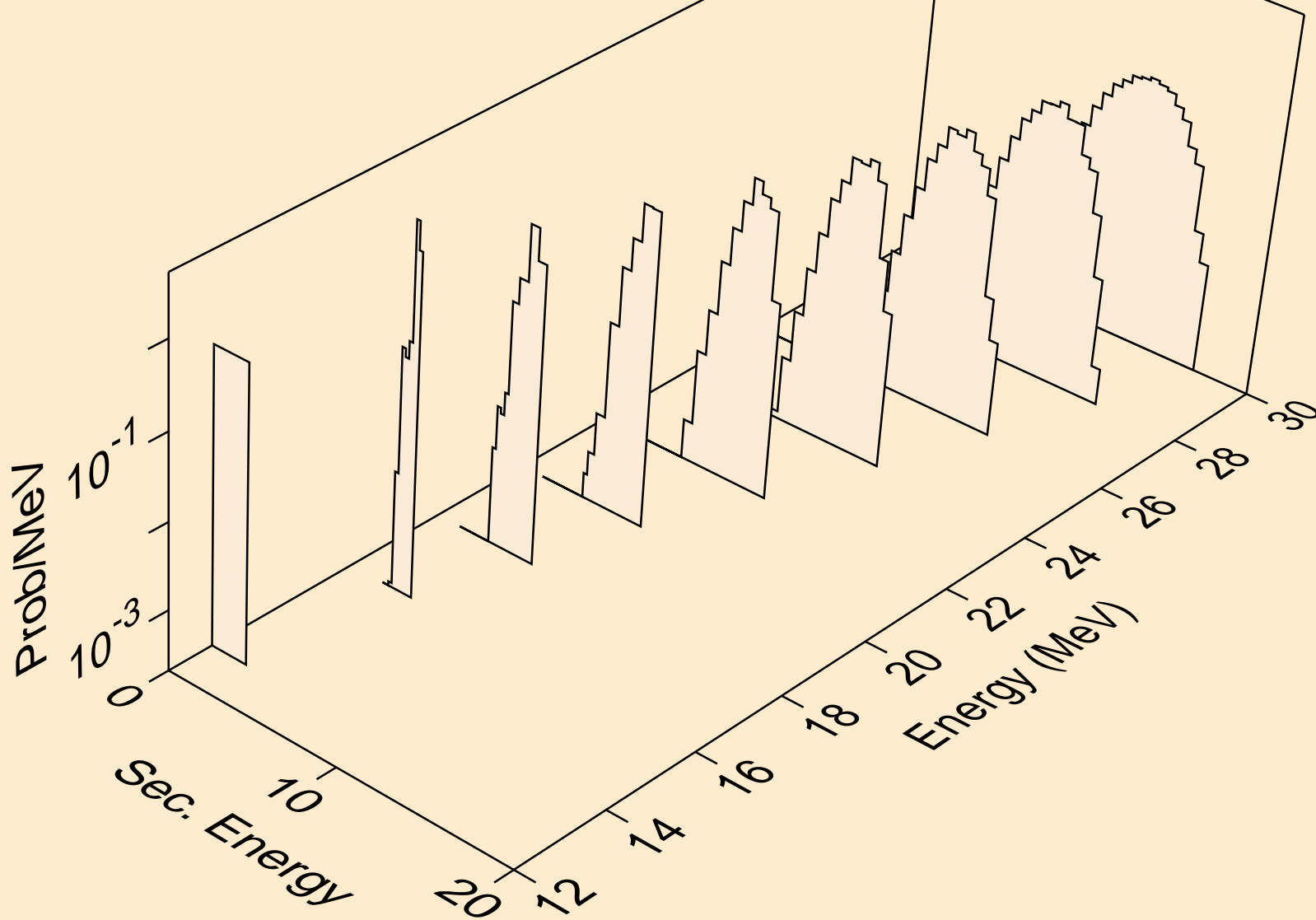
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deuterons from (n,da)



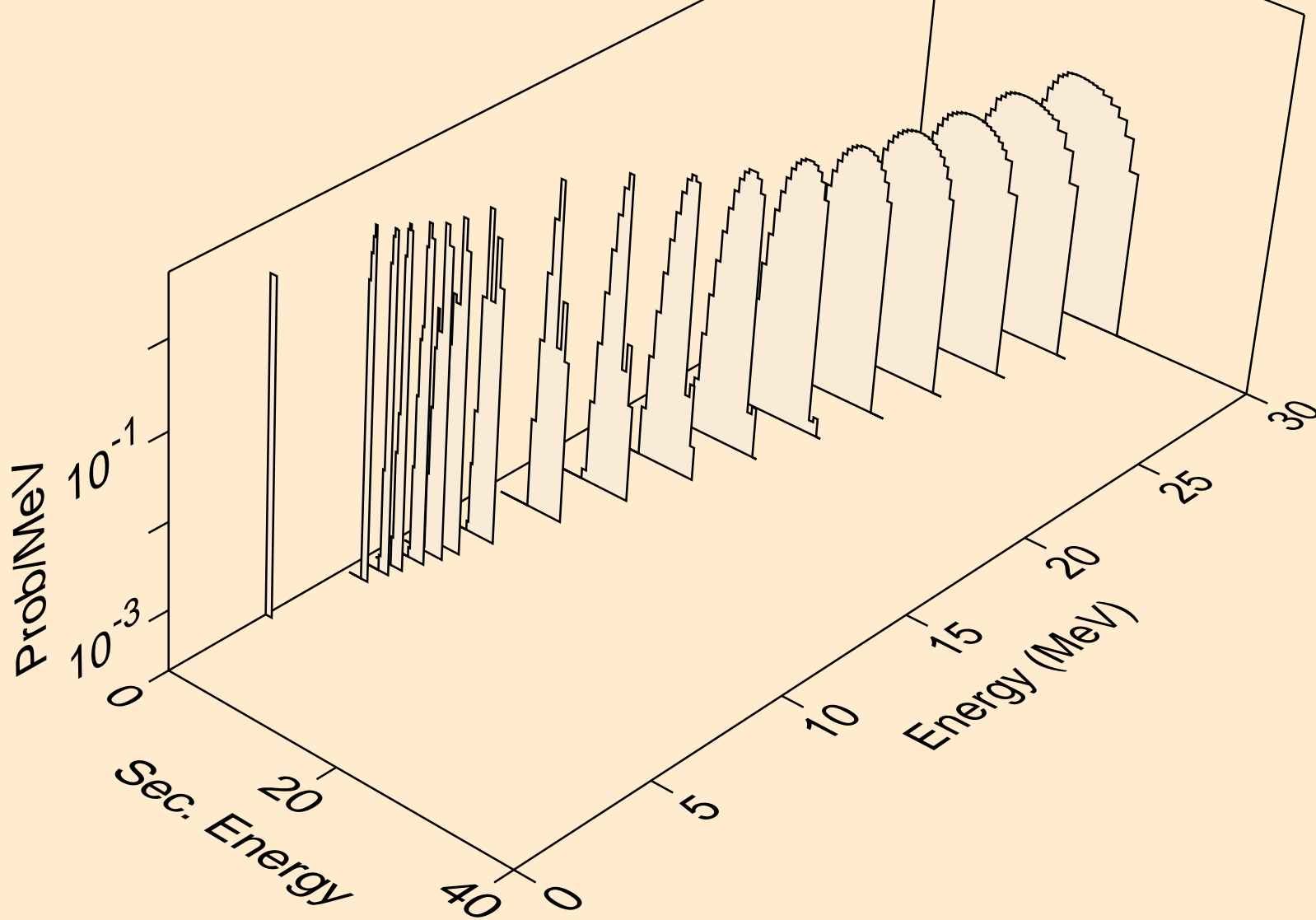
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
tritons from (n,x)



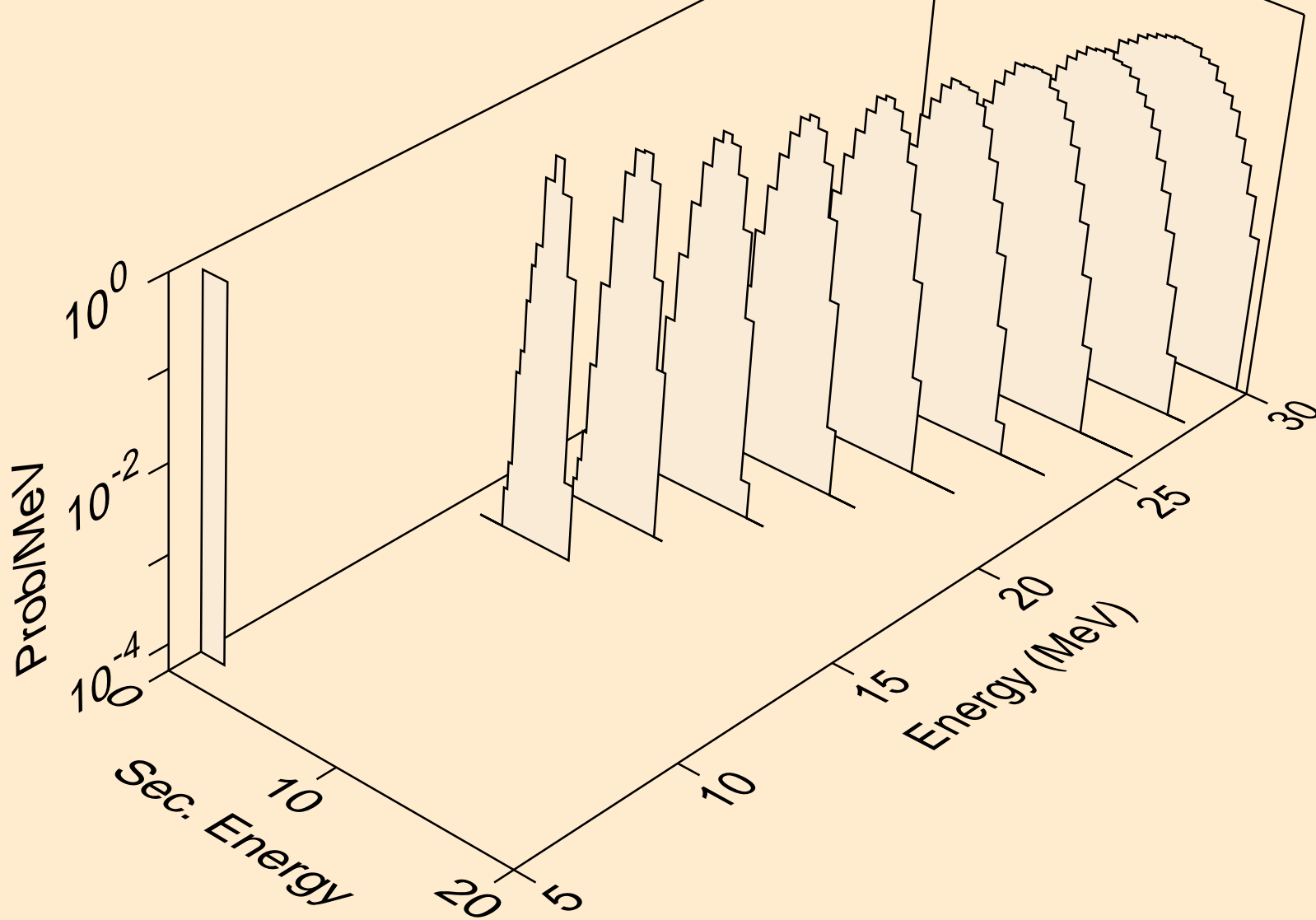
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
tritons from (n,n*)t



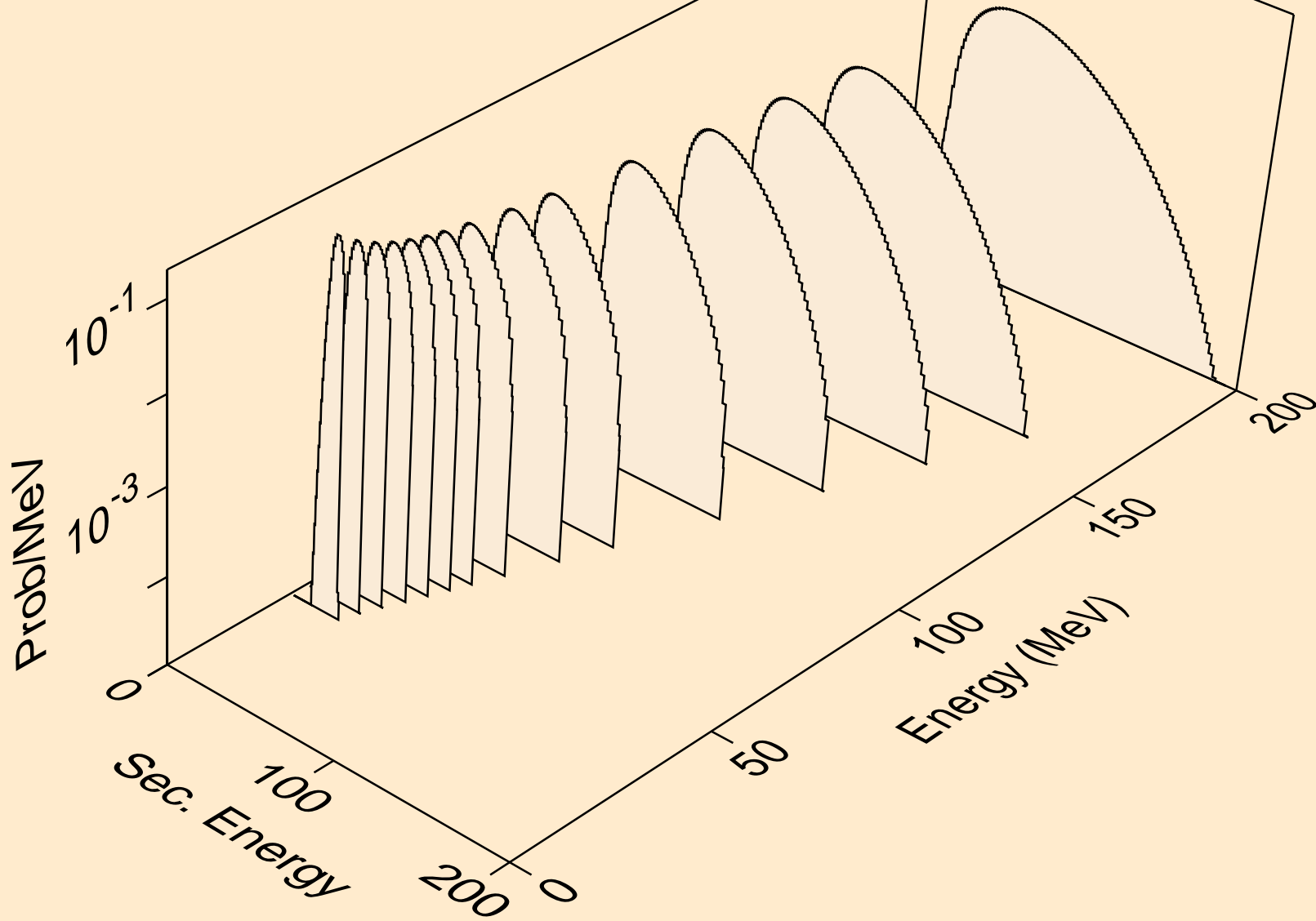
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
tritons from (n,t)



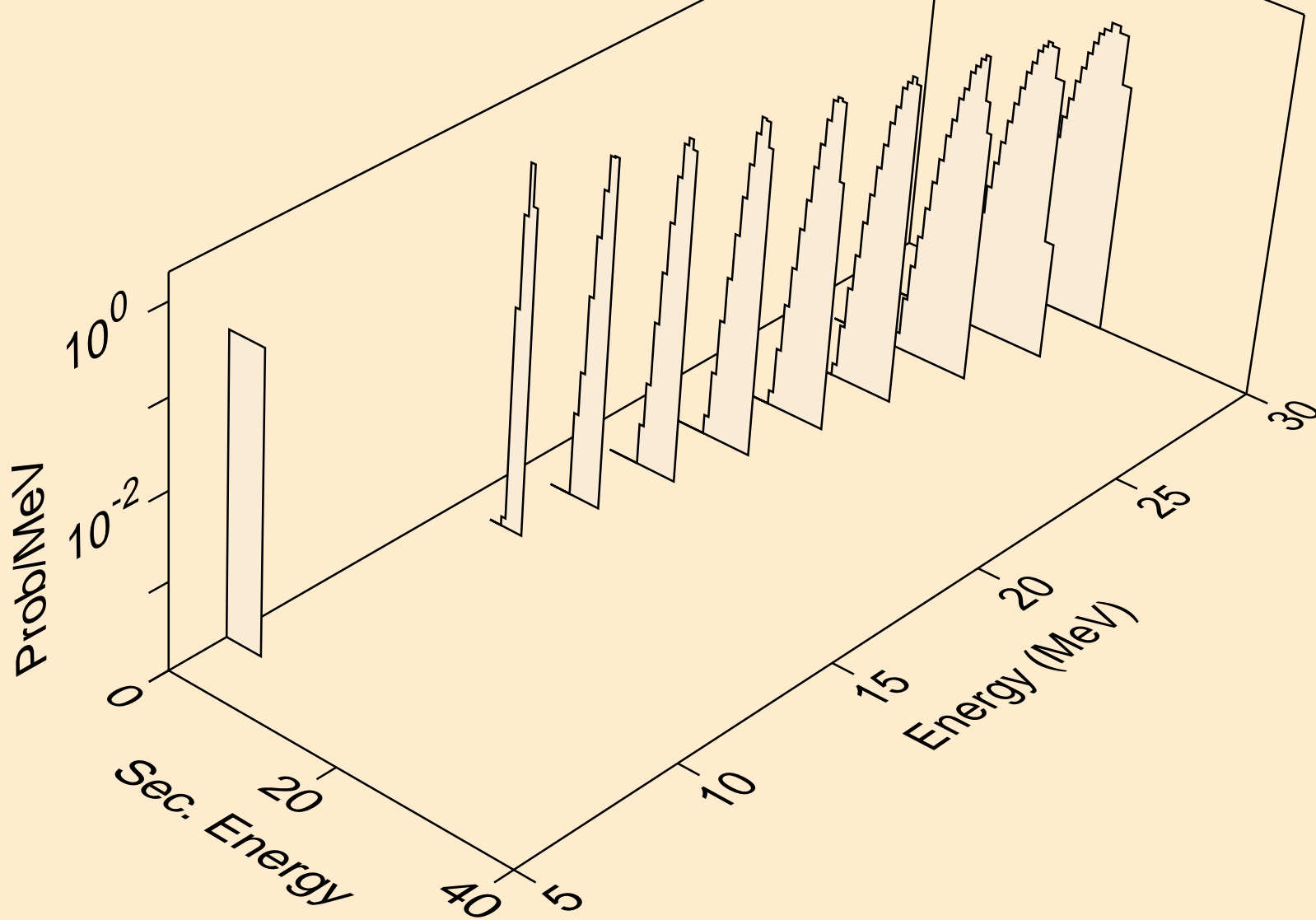
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
tritons from (n,pt)



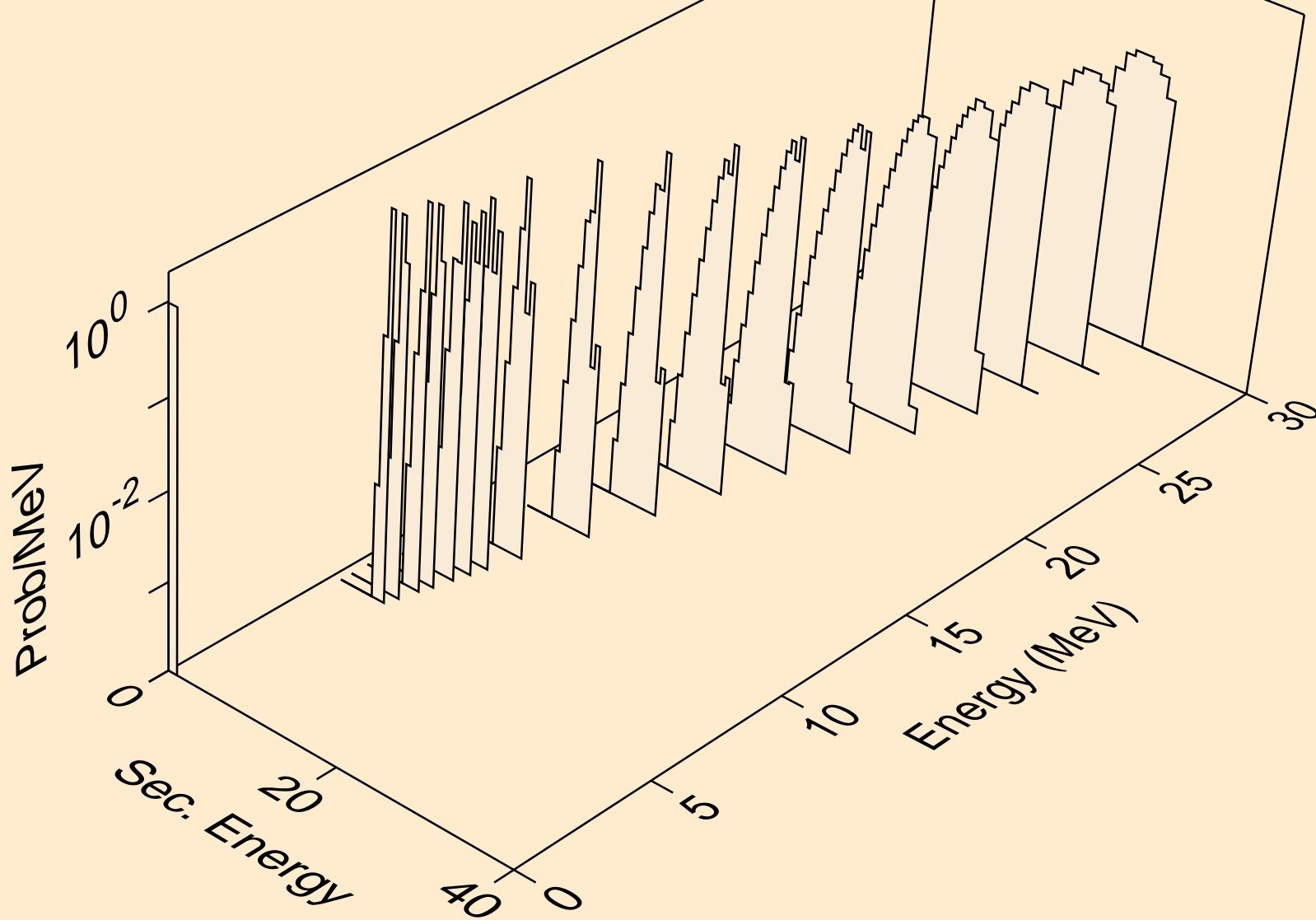
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he3s from (n,x)



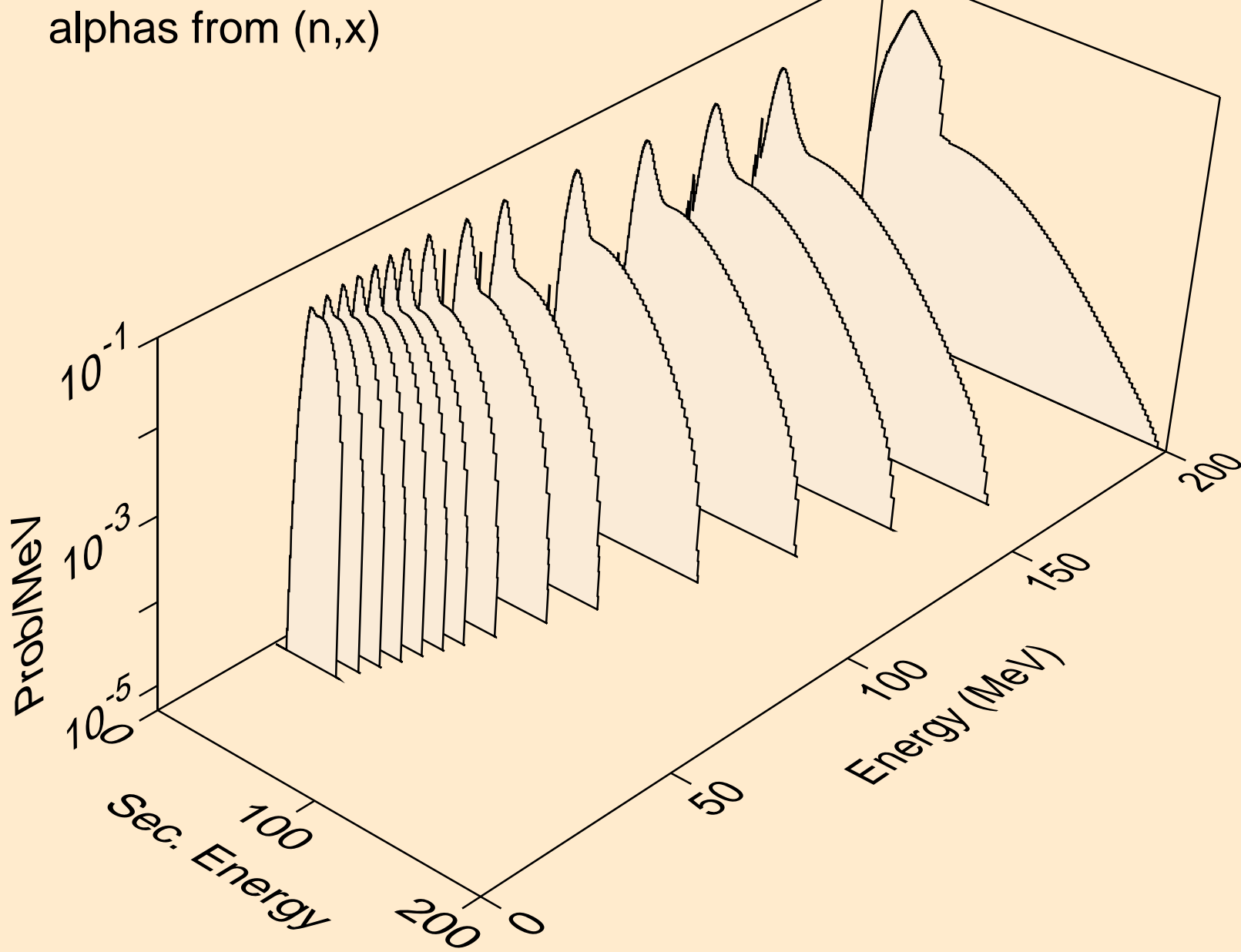
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
he3s from (n,n*)he3



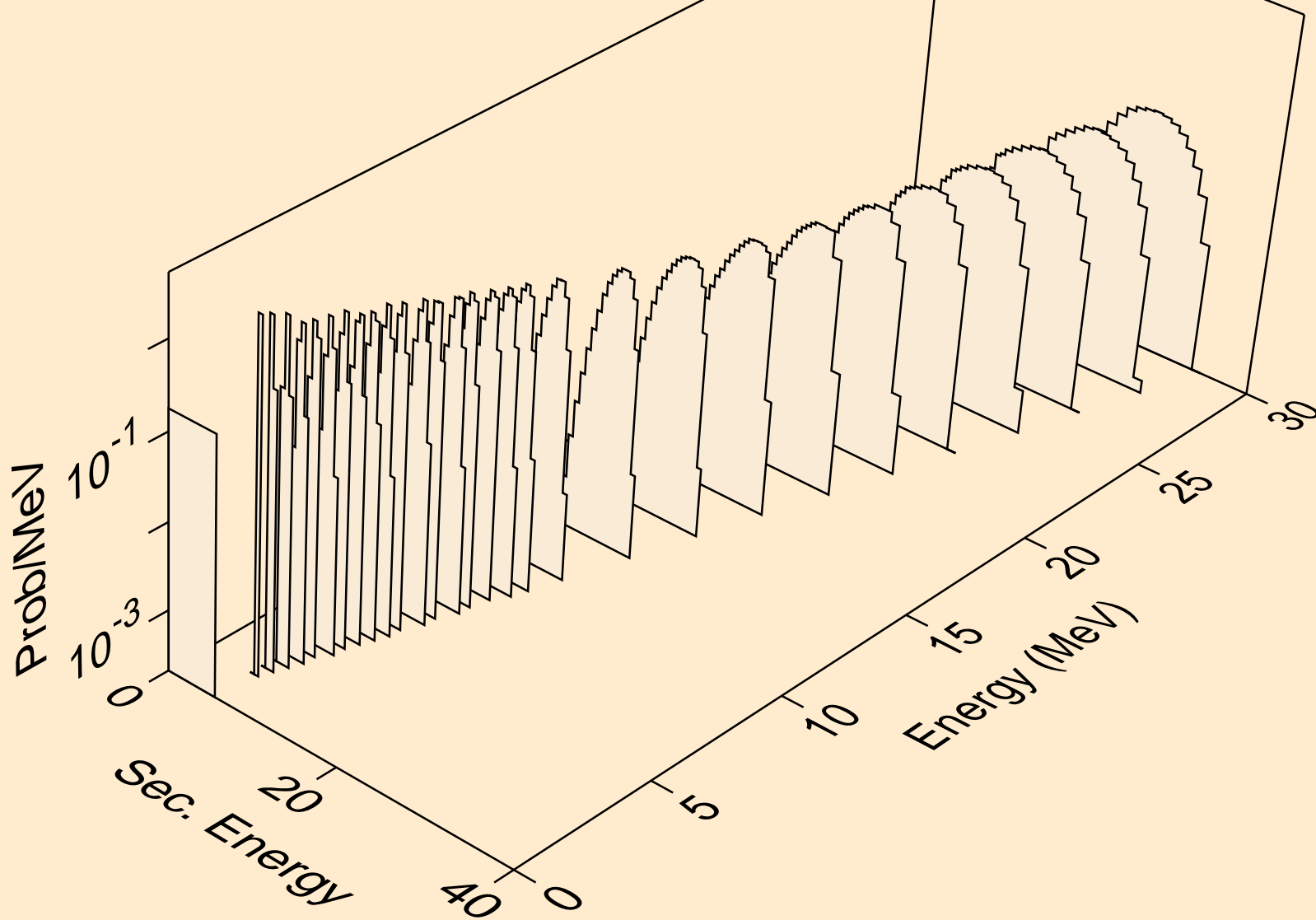
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he3s from (n,he3)



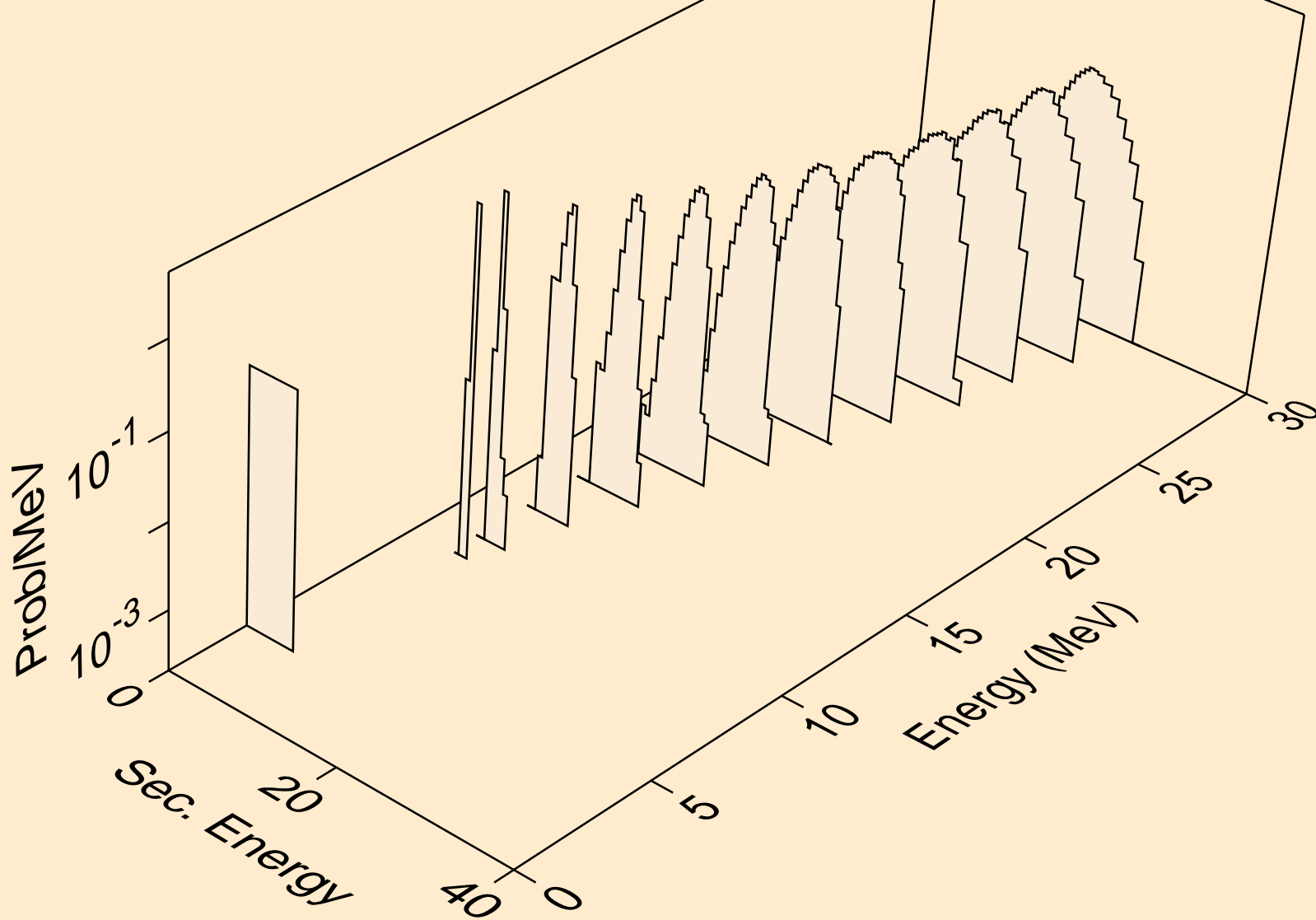
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,x)



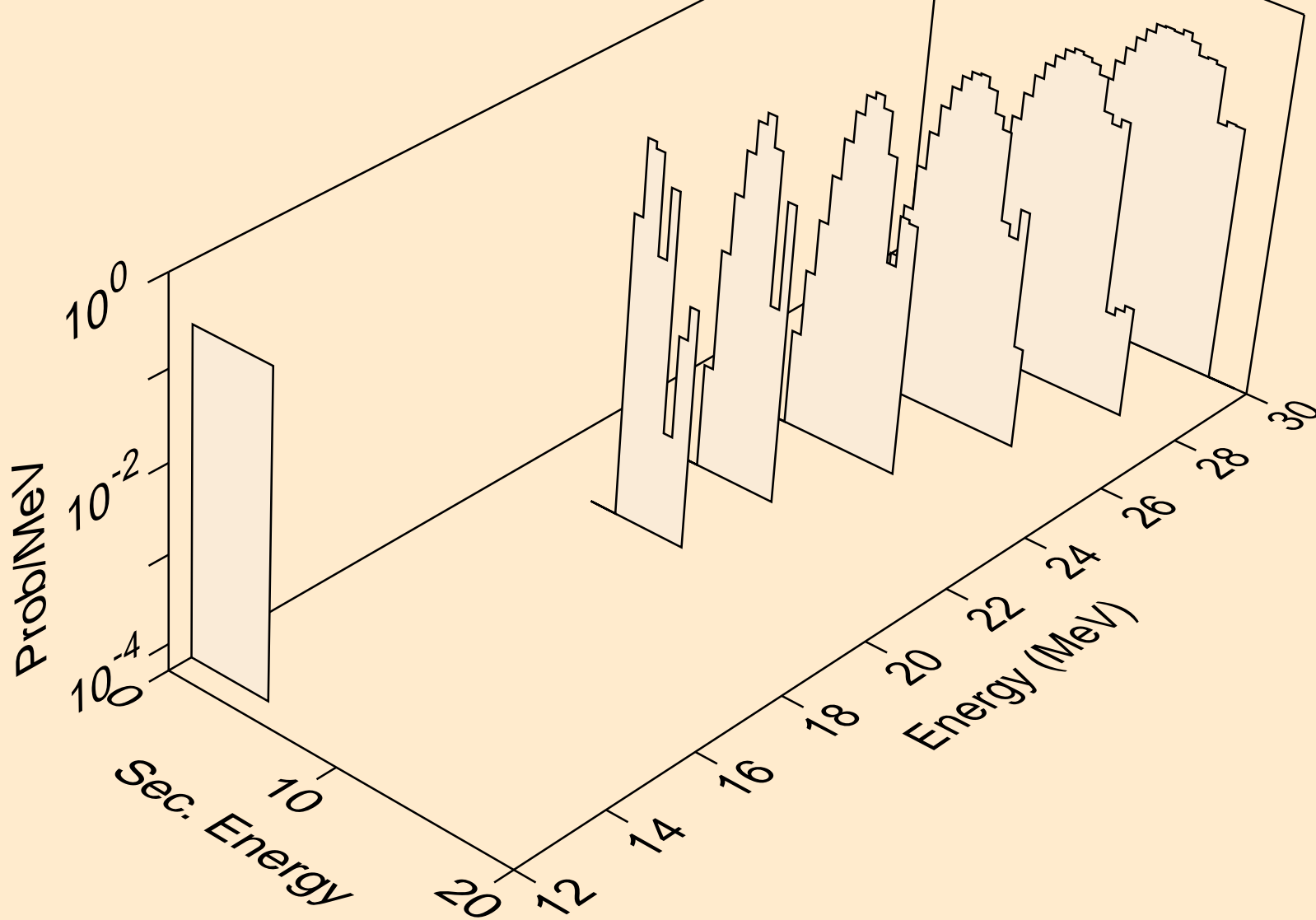
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,n*)a



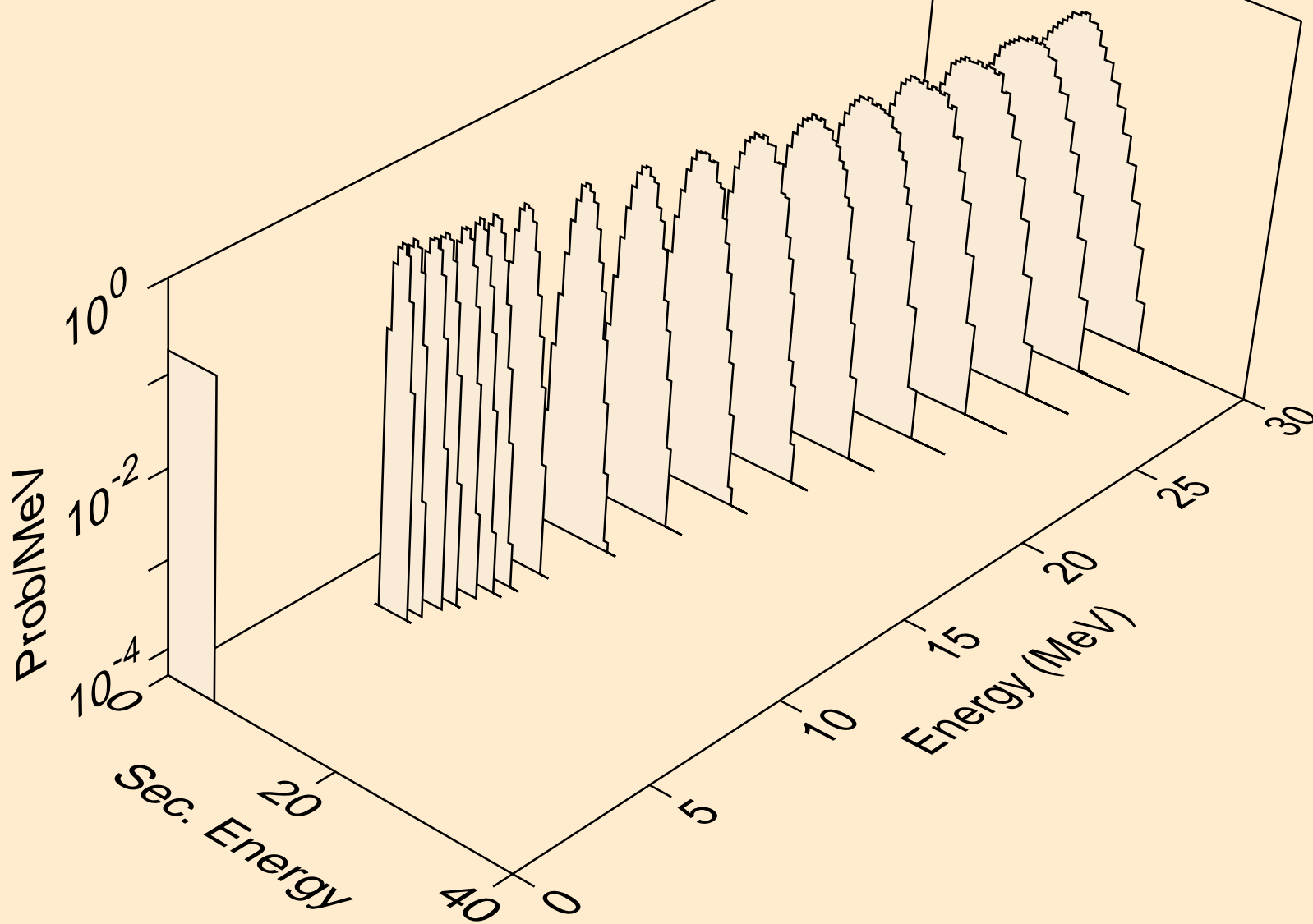
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,2n)a



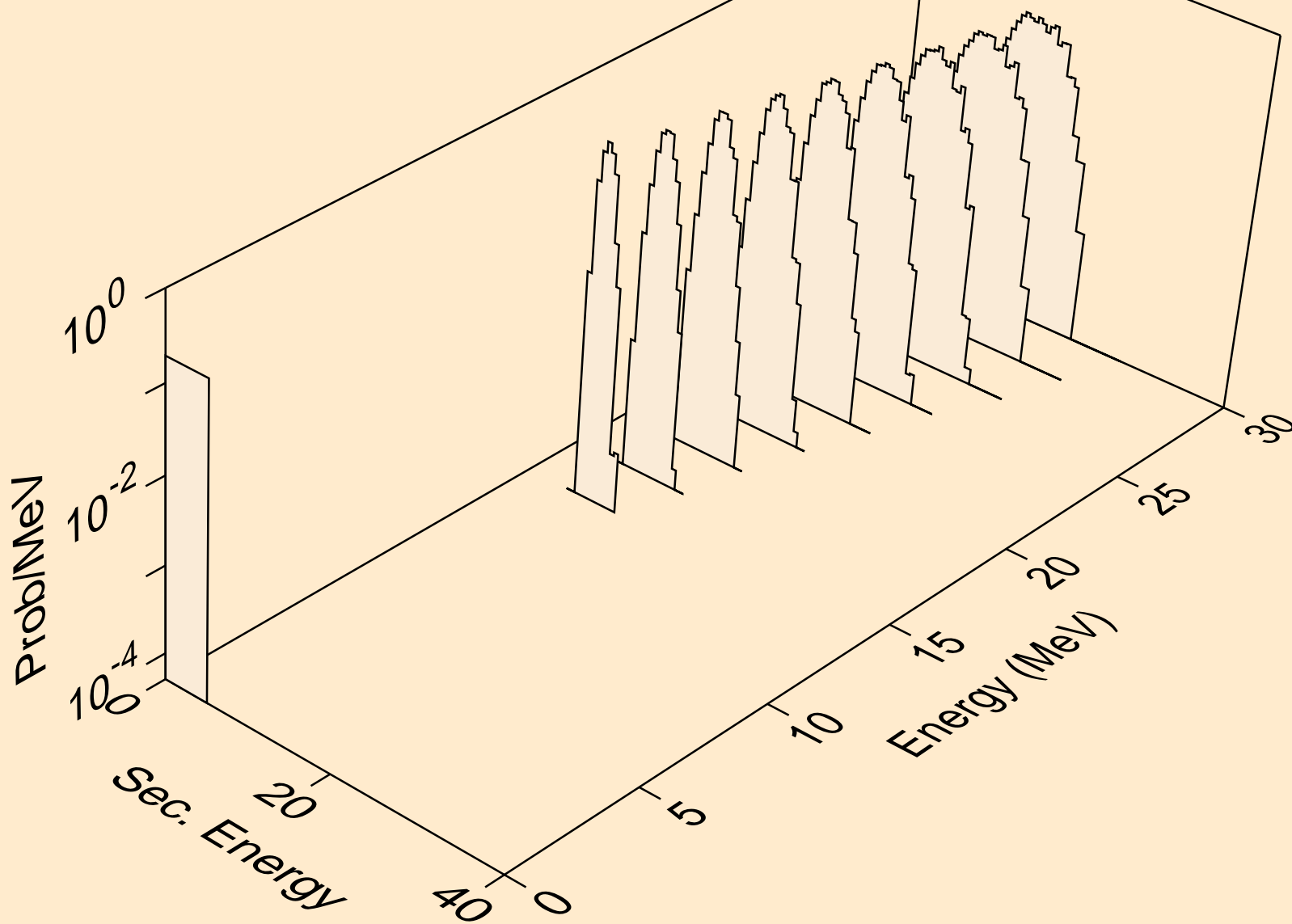
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,3n)_a



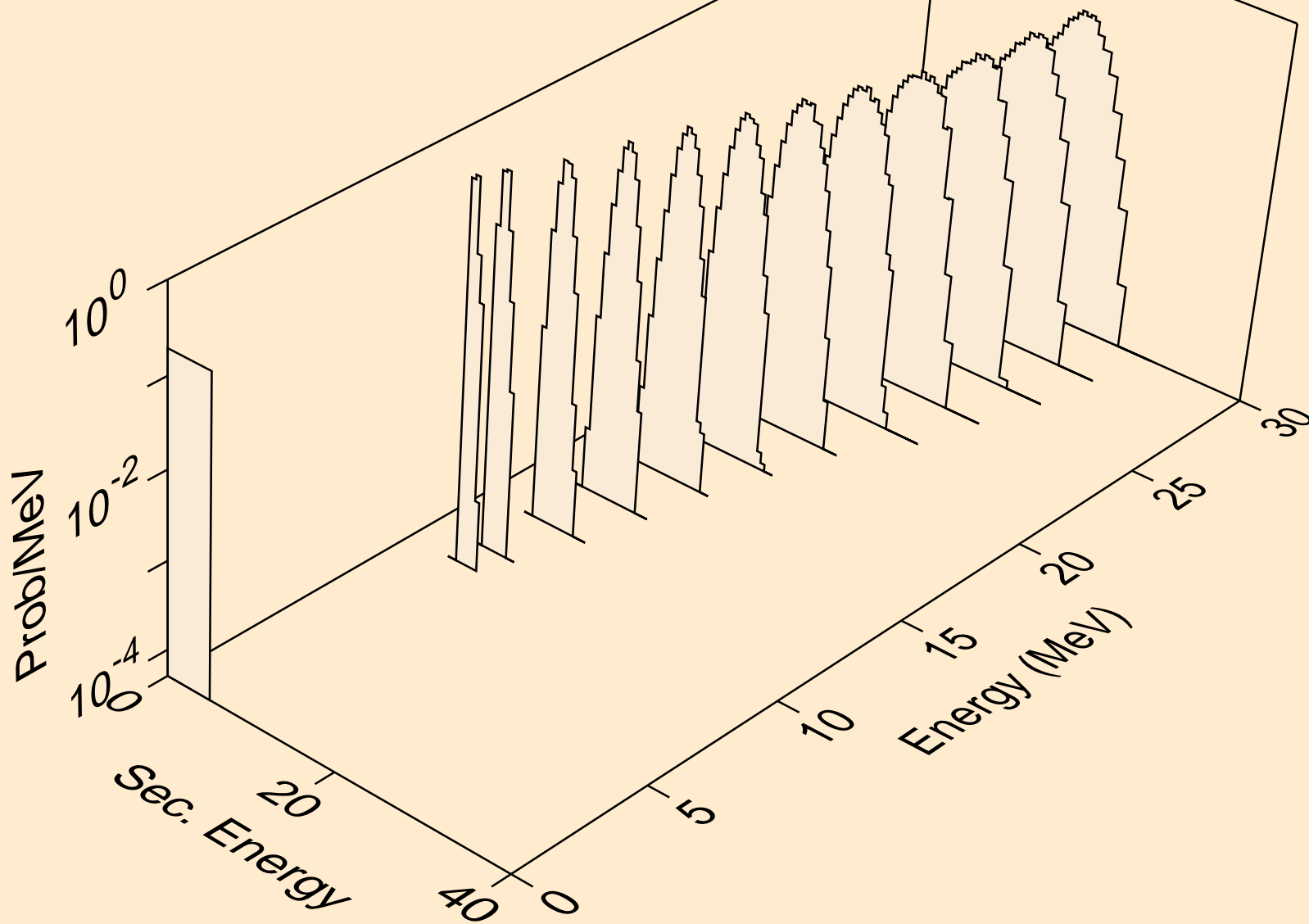
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,n*)2a



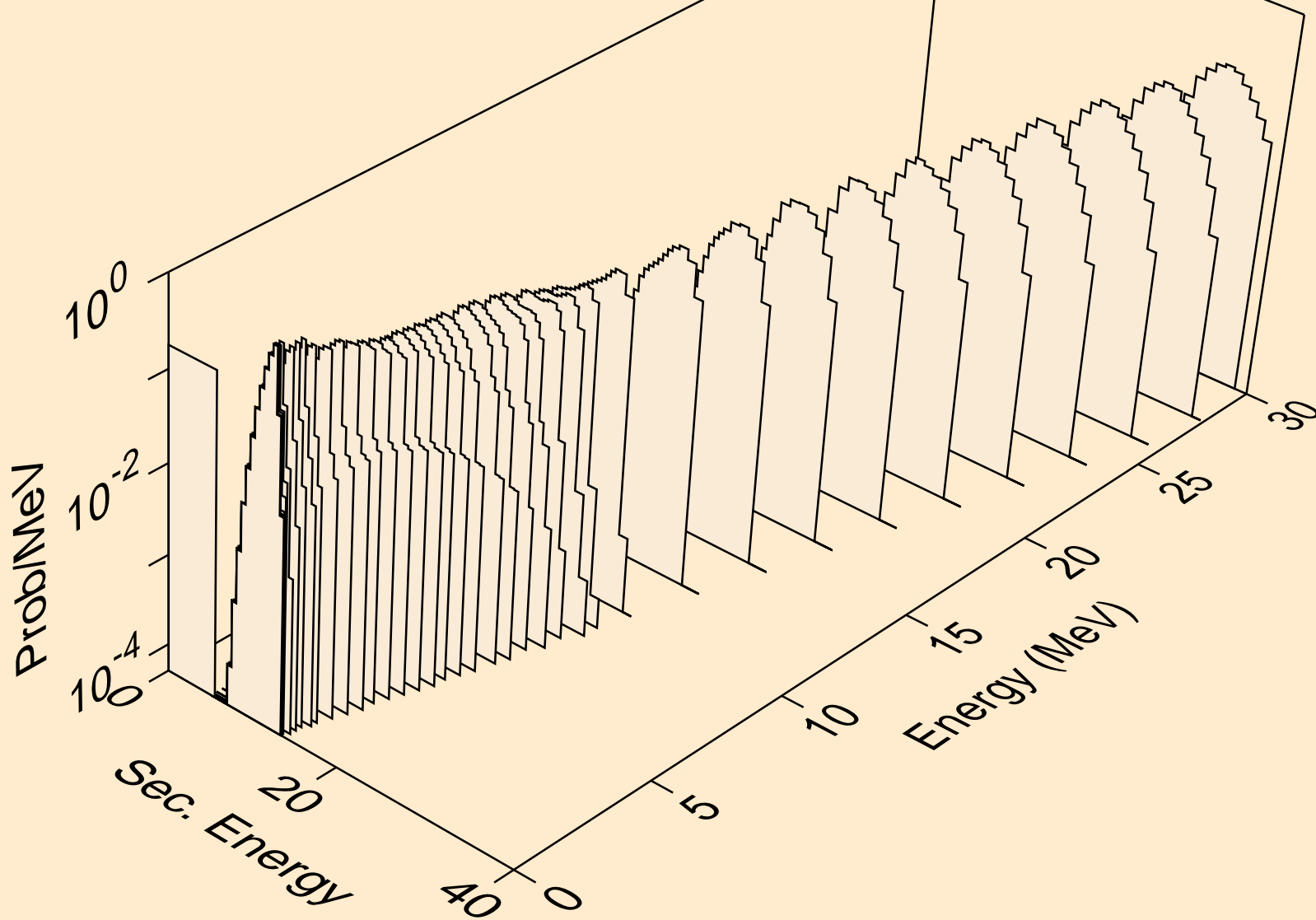
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,2n)2a



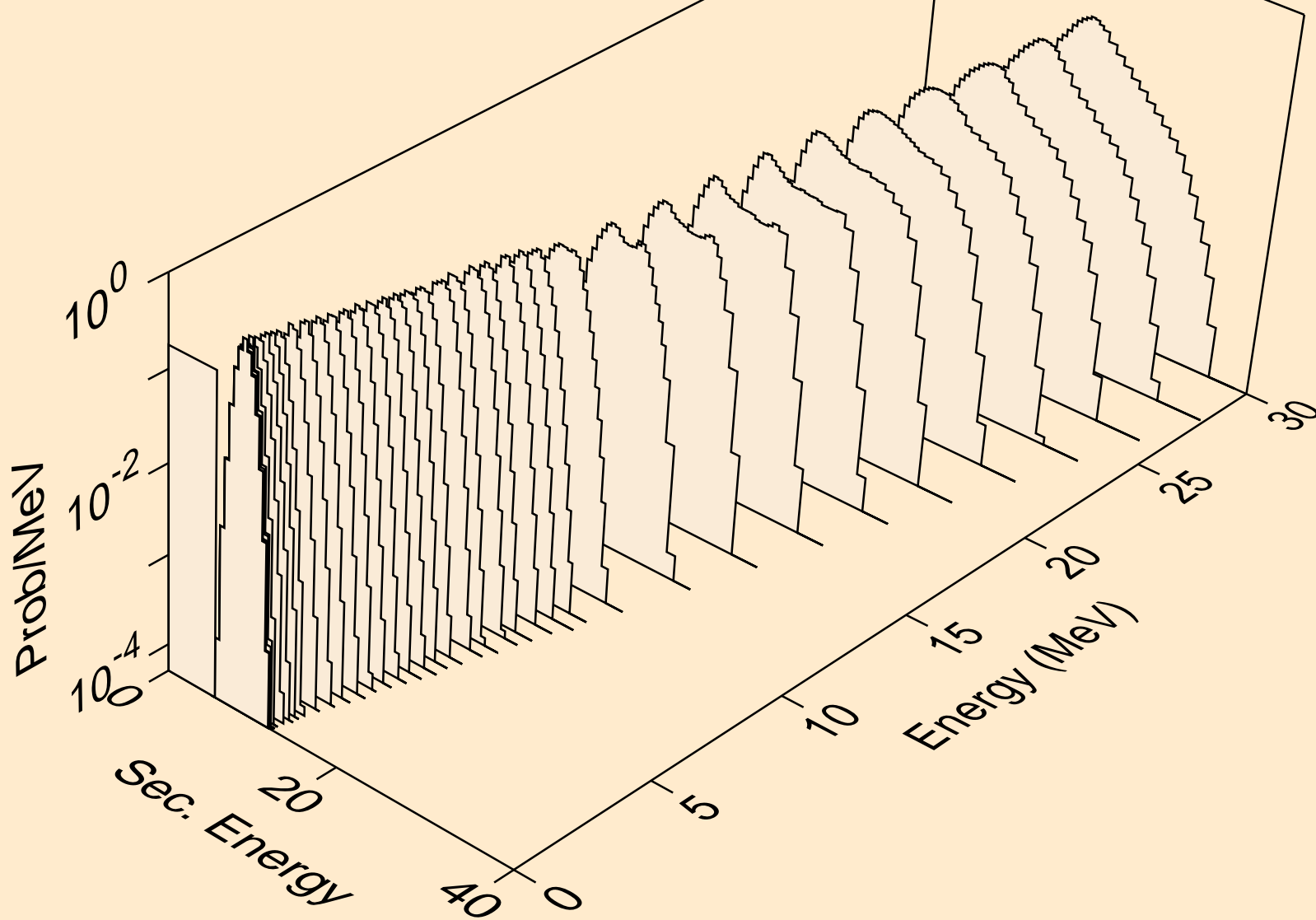
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,npa)



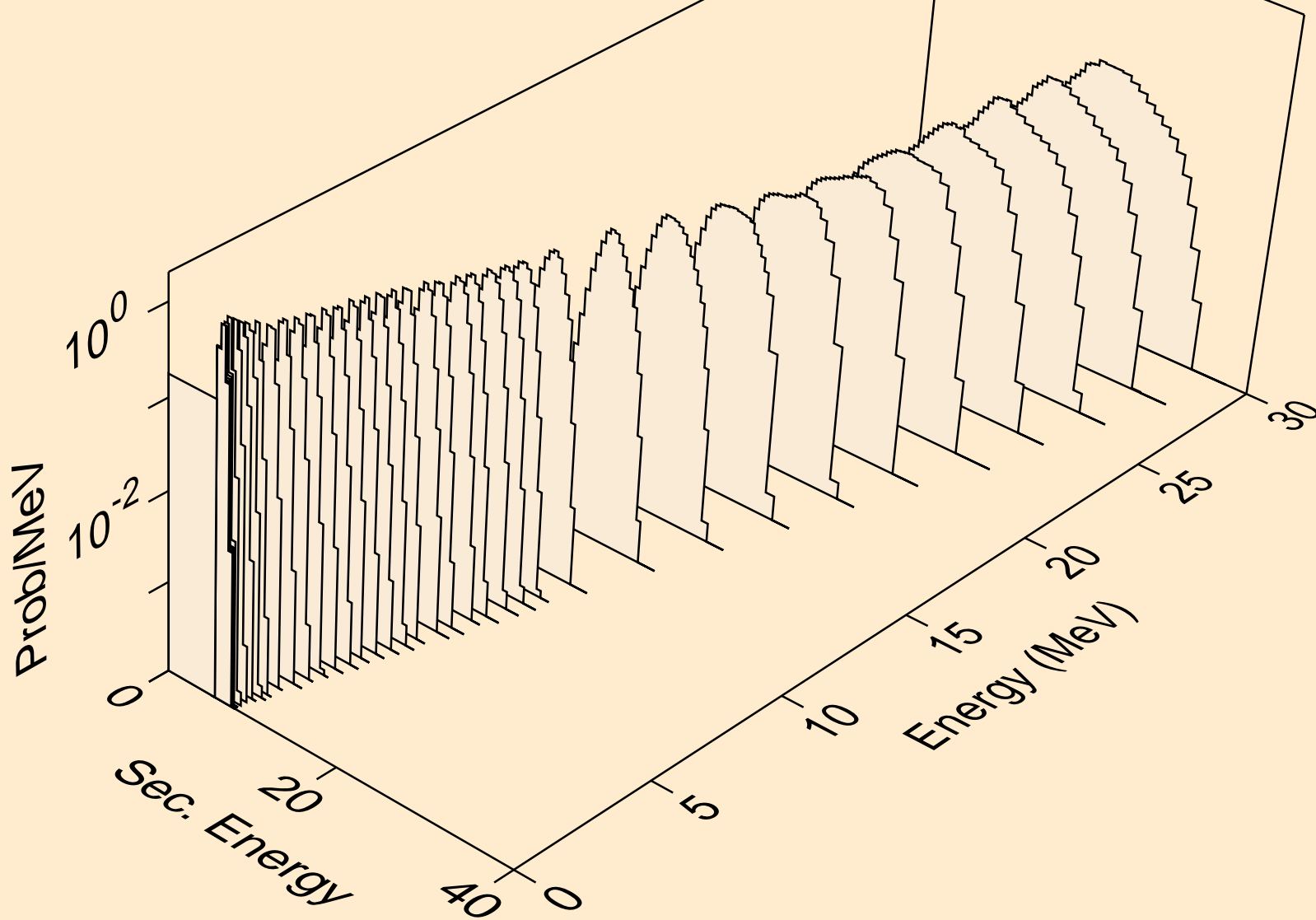
HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,a)



HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,2a)



HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,pa)



HG189 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,da)

