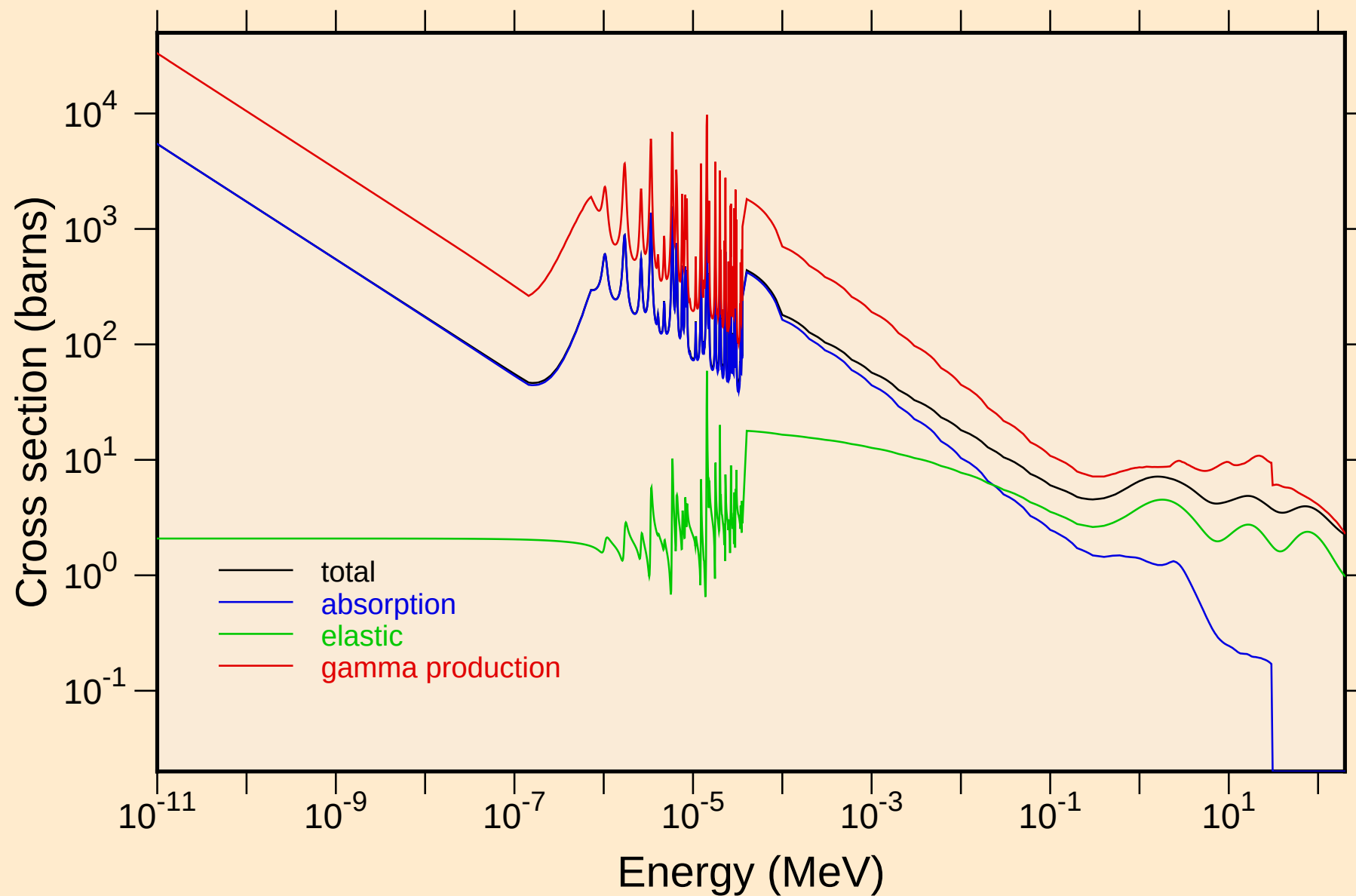
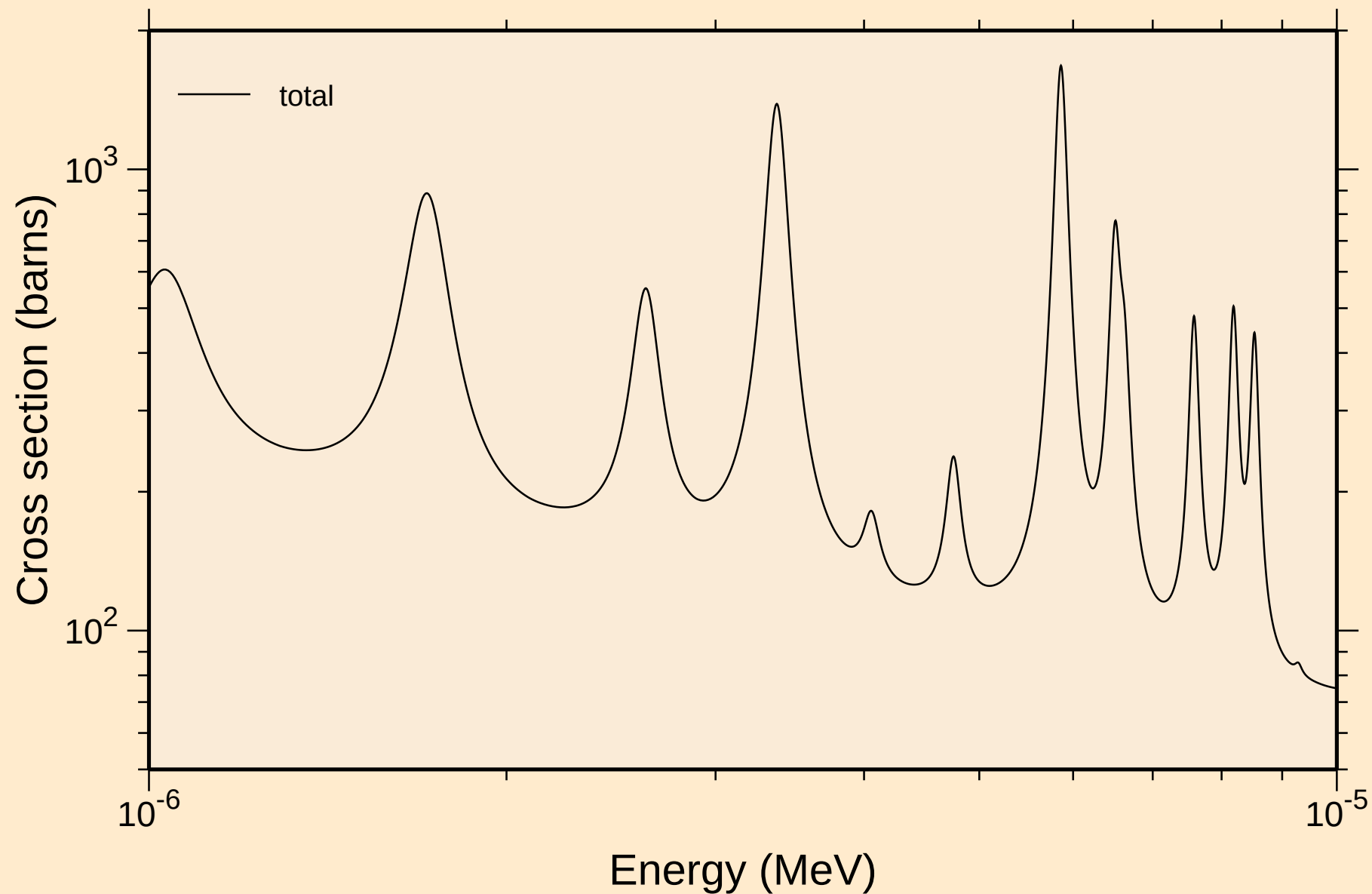


SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

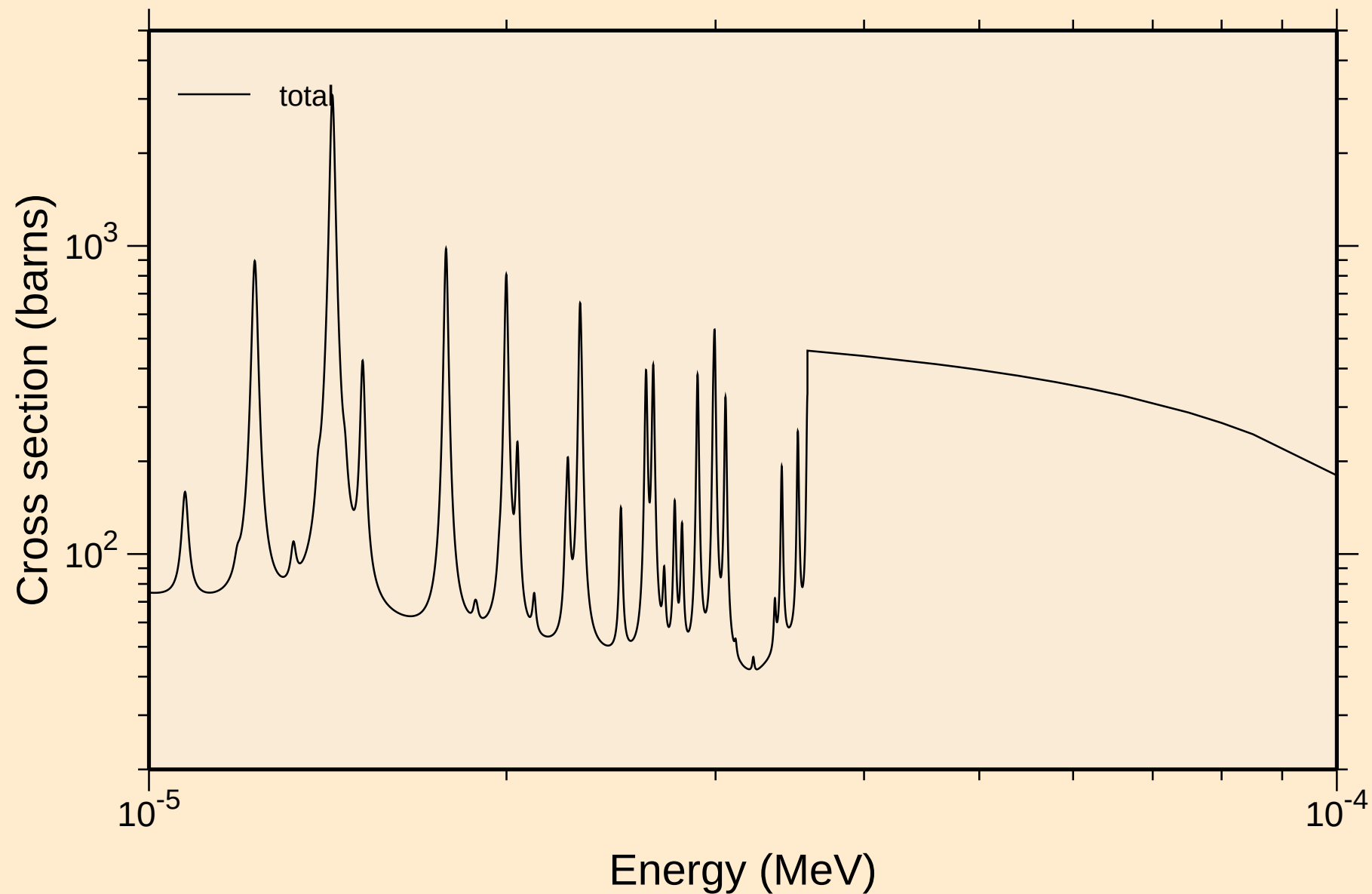
Principal cross sections



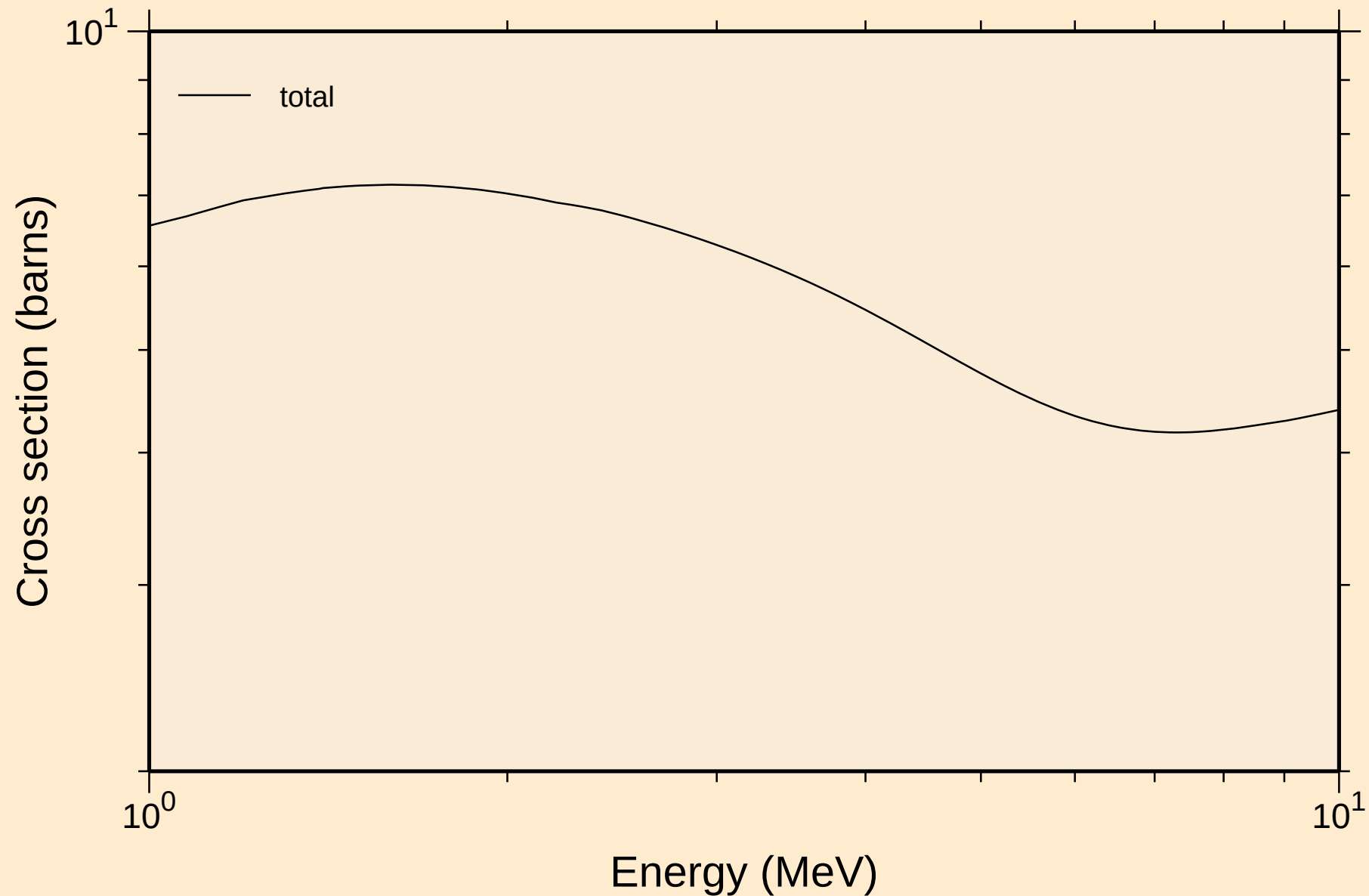
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resonance total cross section



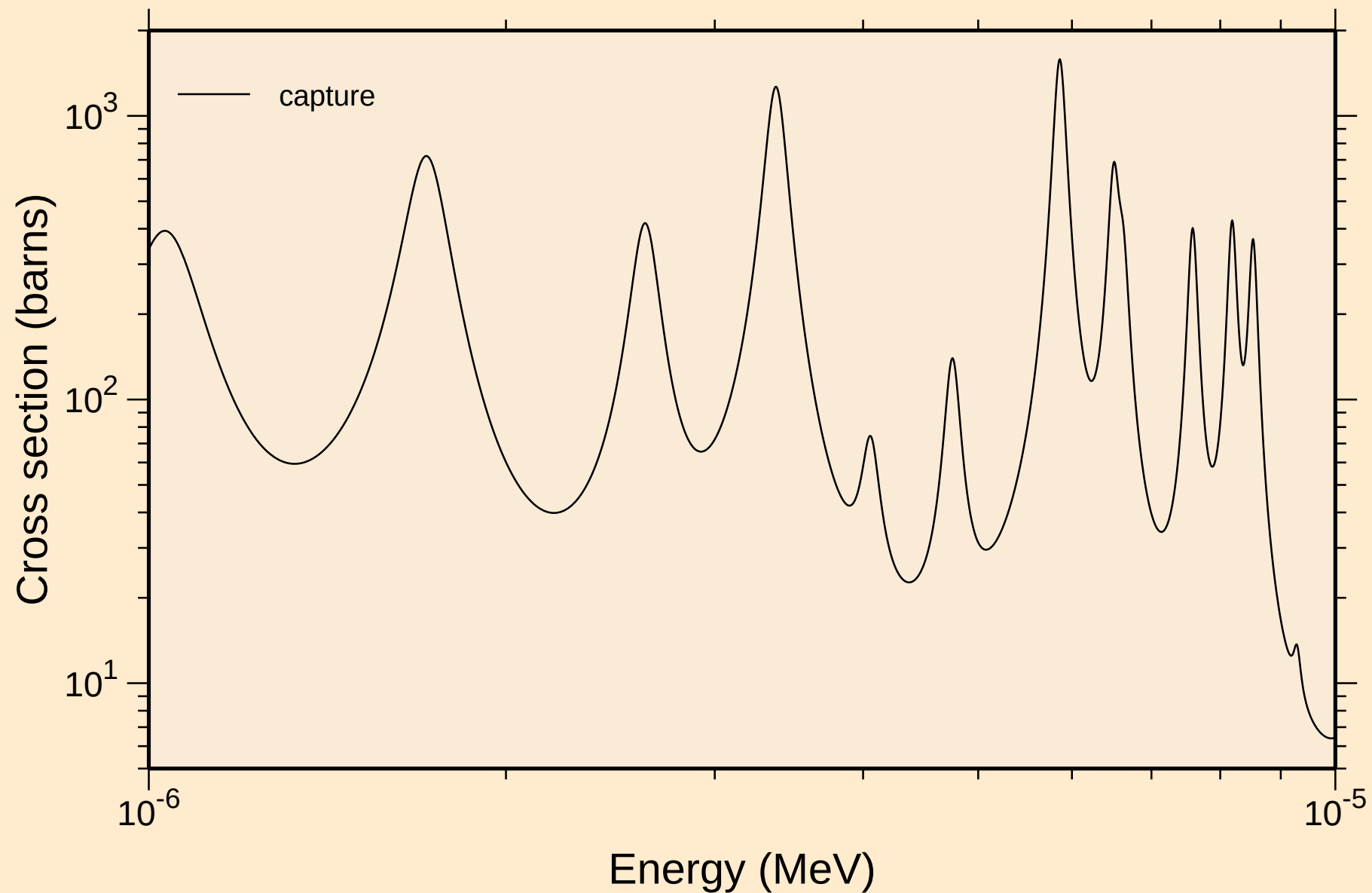
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
resonance total cross section



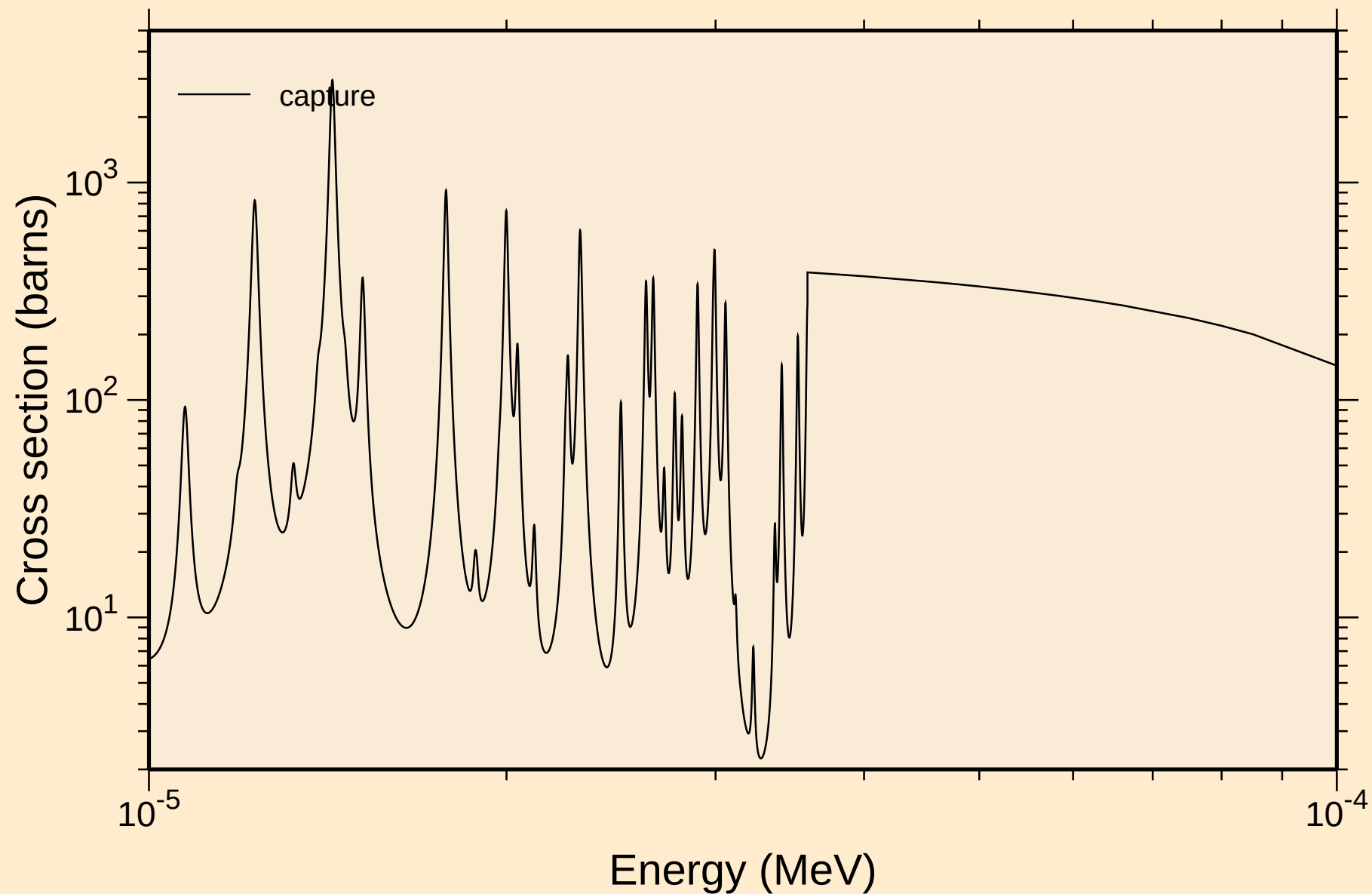
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
resonance total cross section



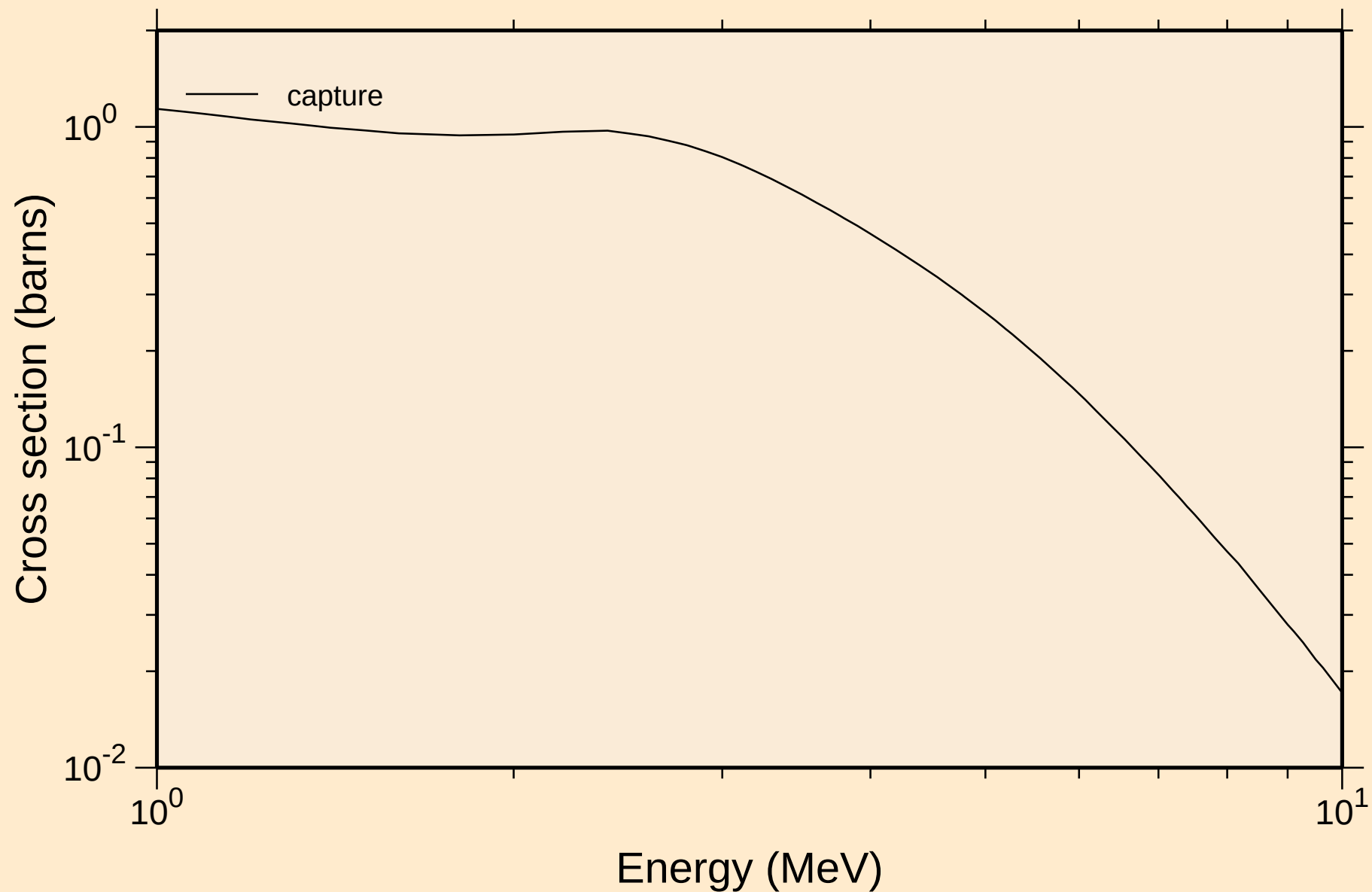
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
resonance absorption cross sections



SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
resonance absorption cross sections

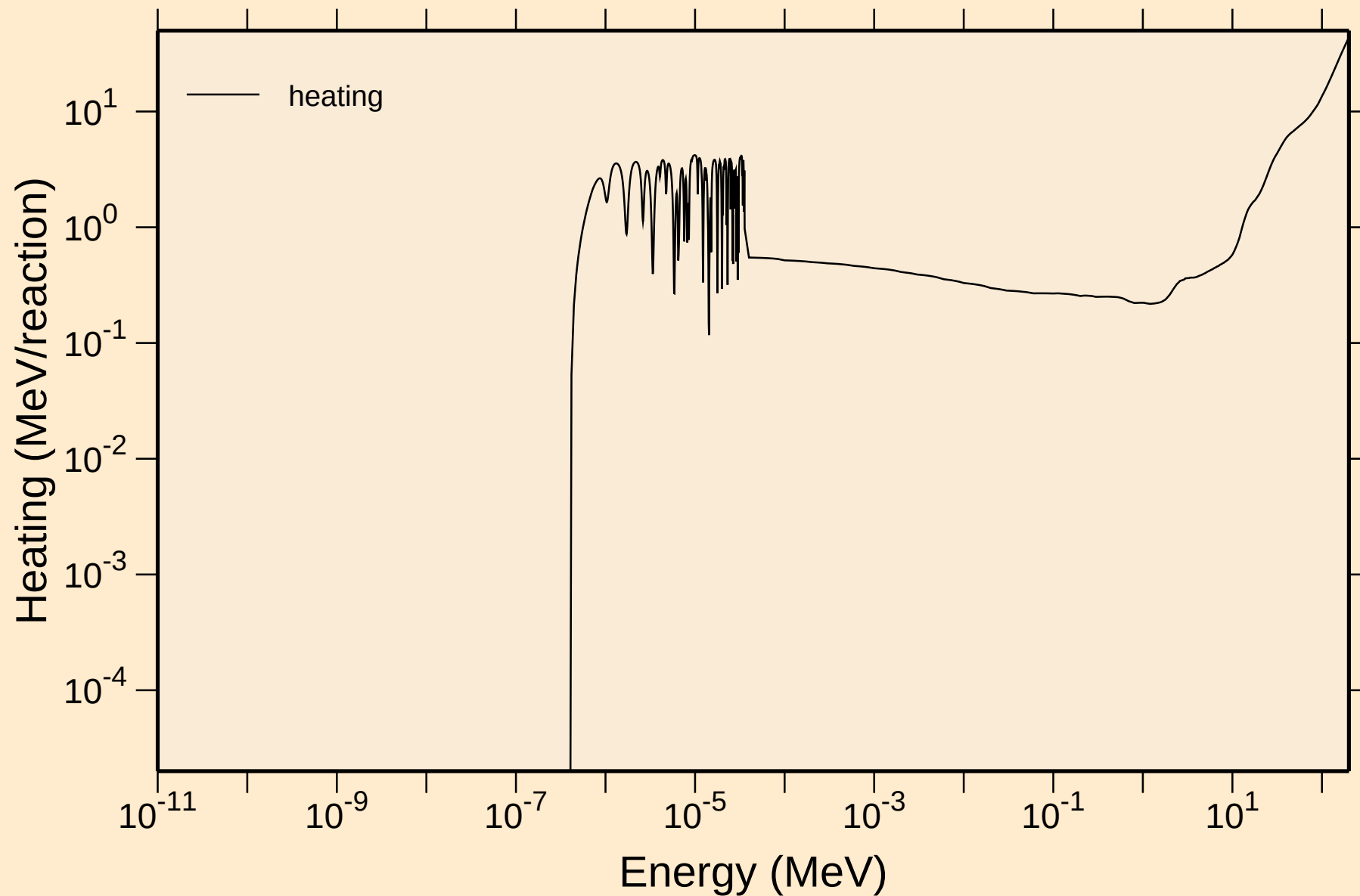


SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
resonance absorption cross sections



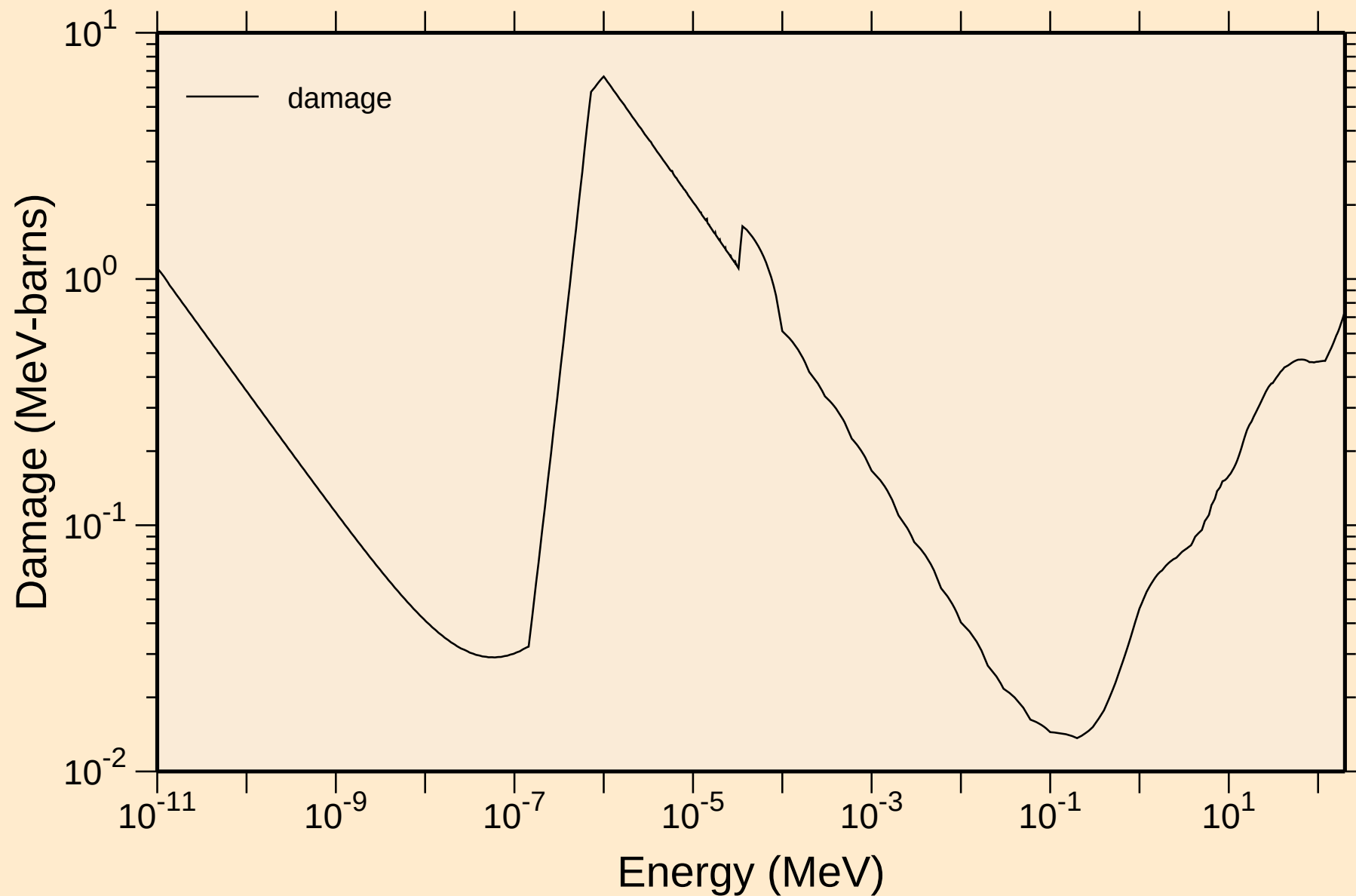
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

Heating

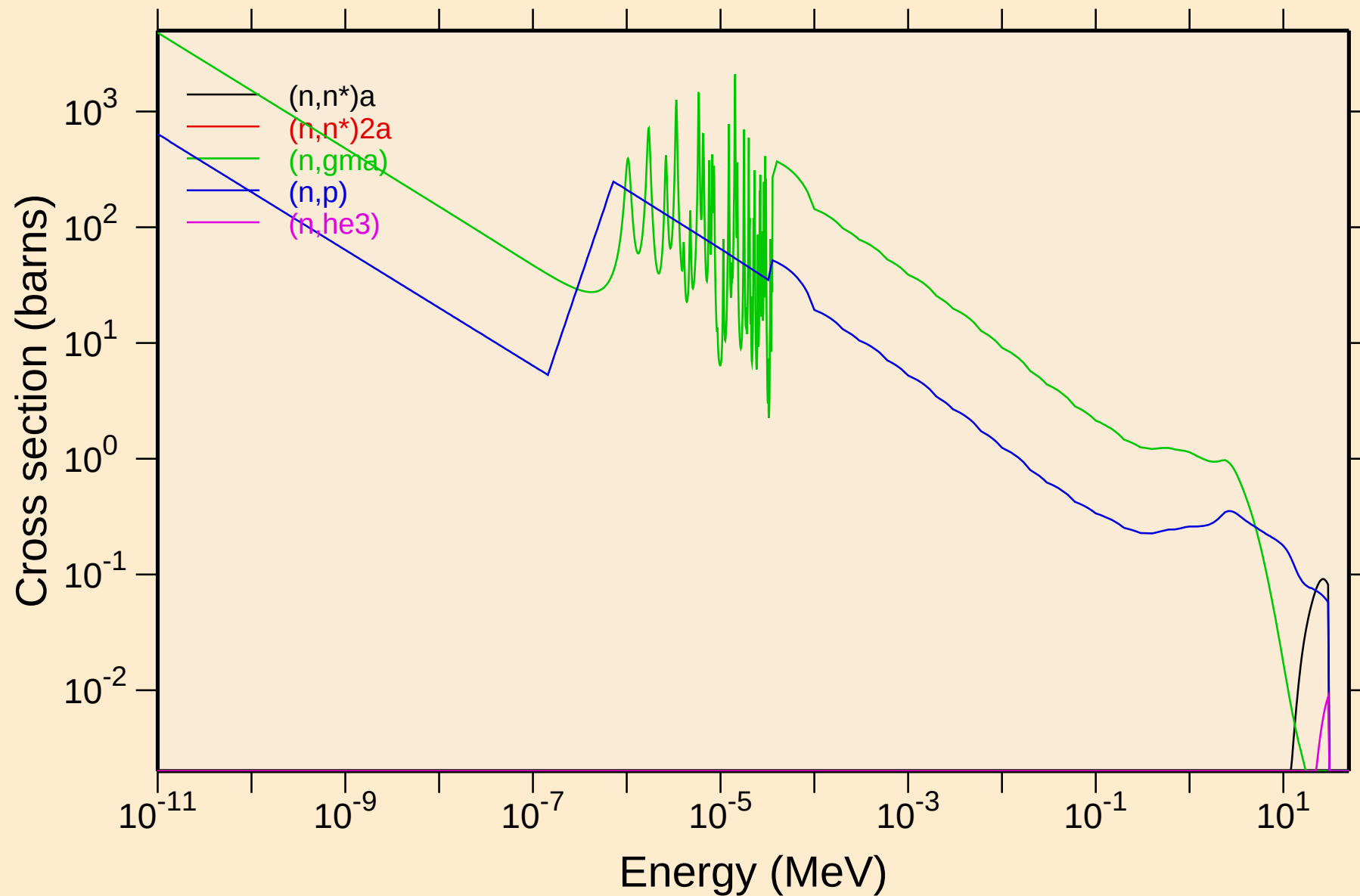


SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

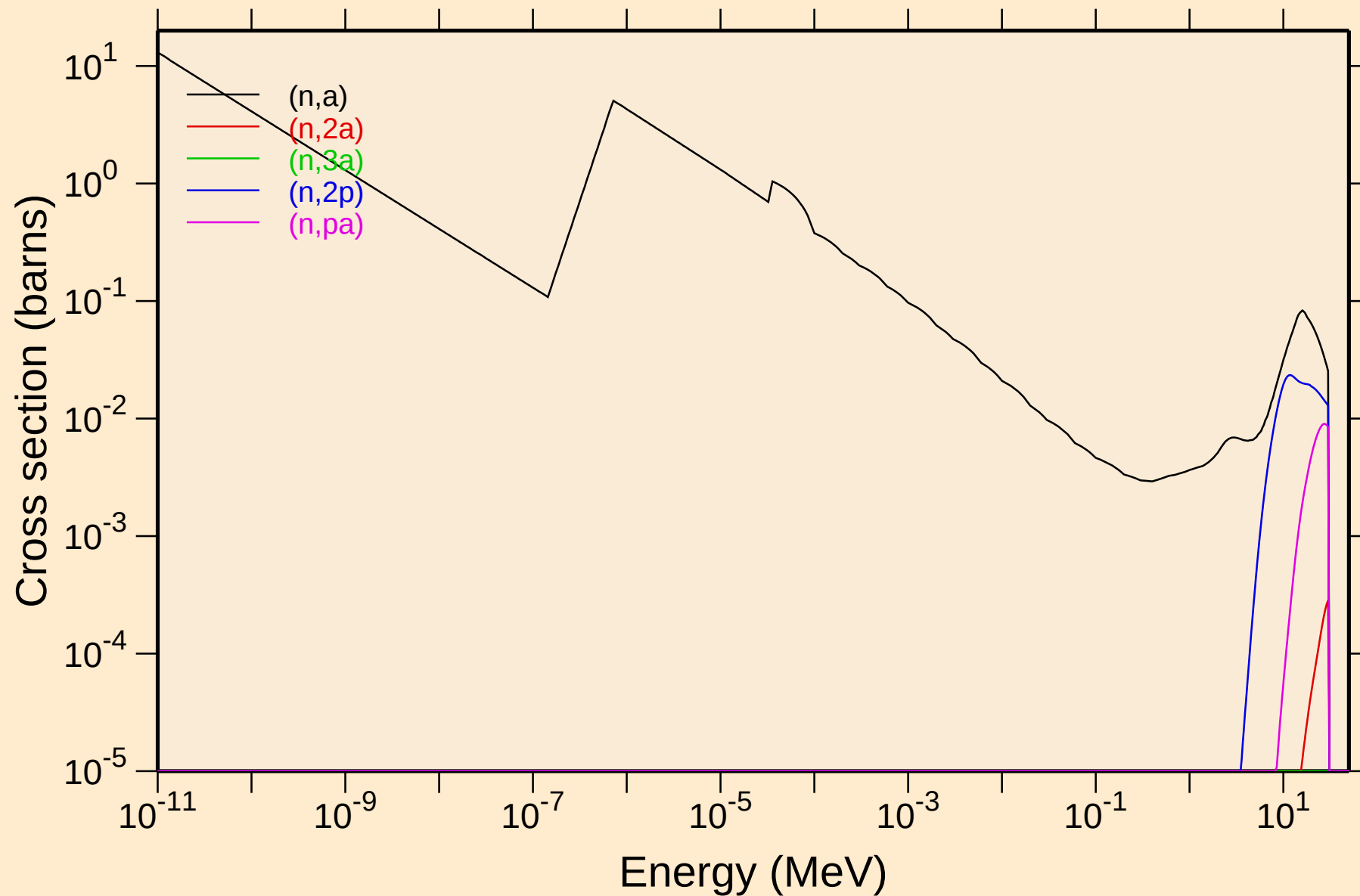
Damage



SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Non-threshold reactions

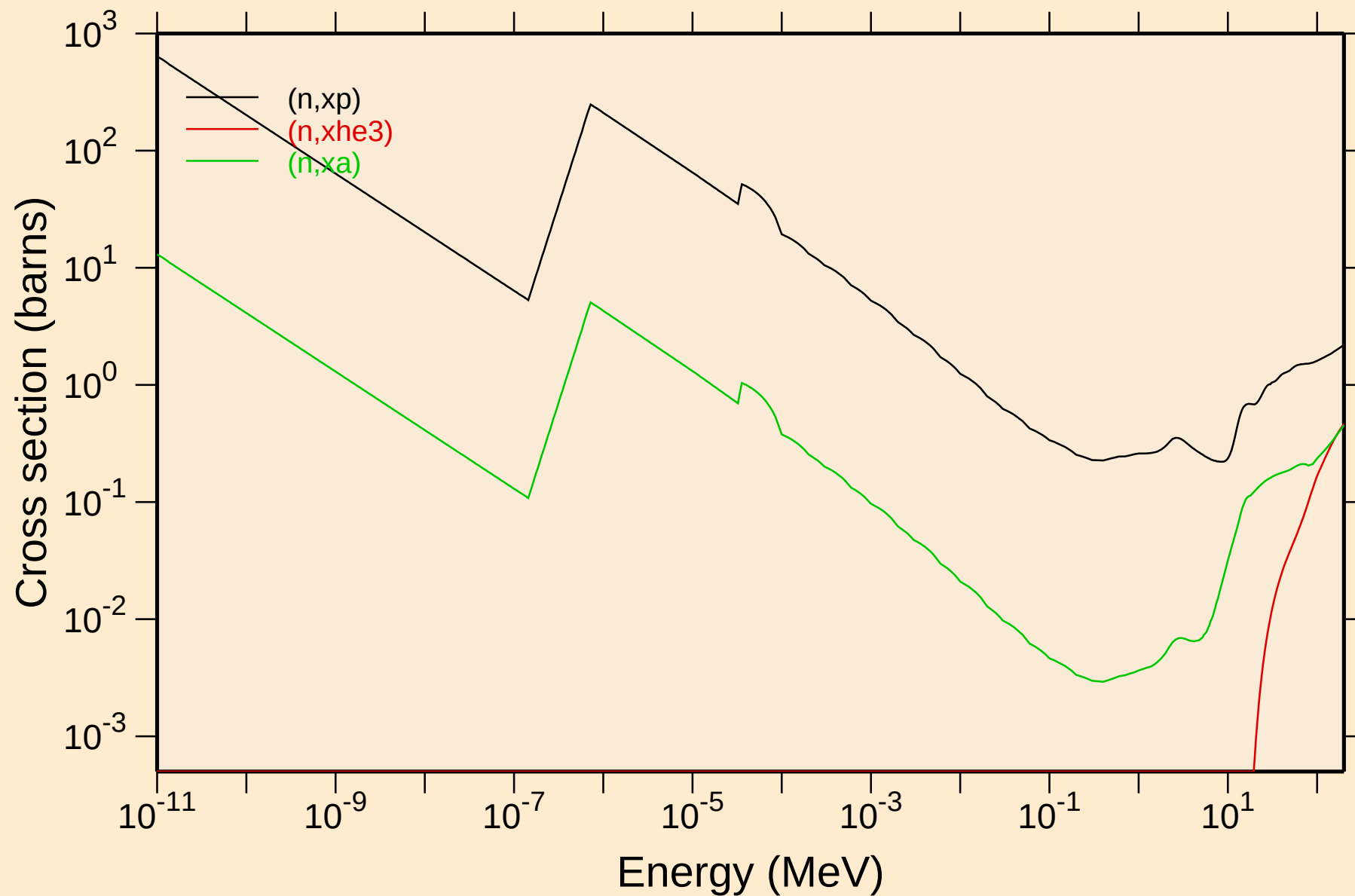


SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Non-threshold reactions



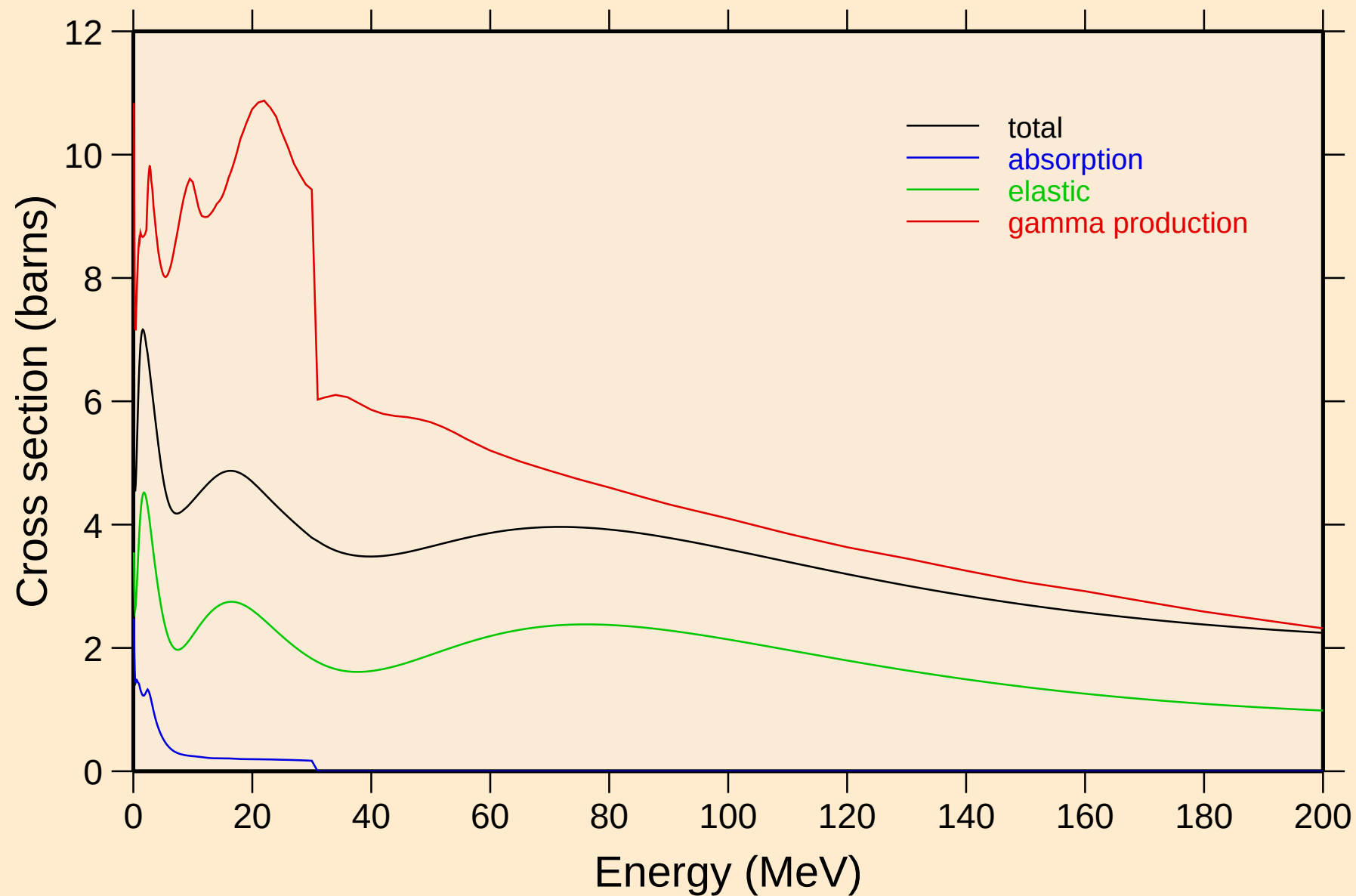
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Non-threshold reactions



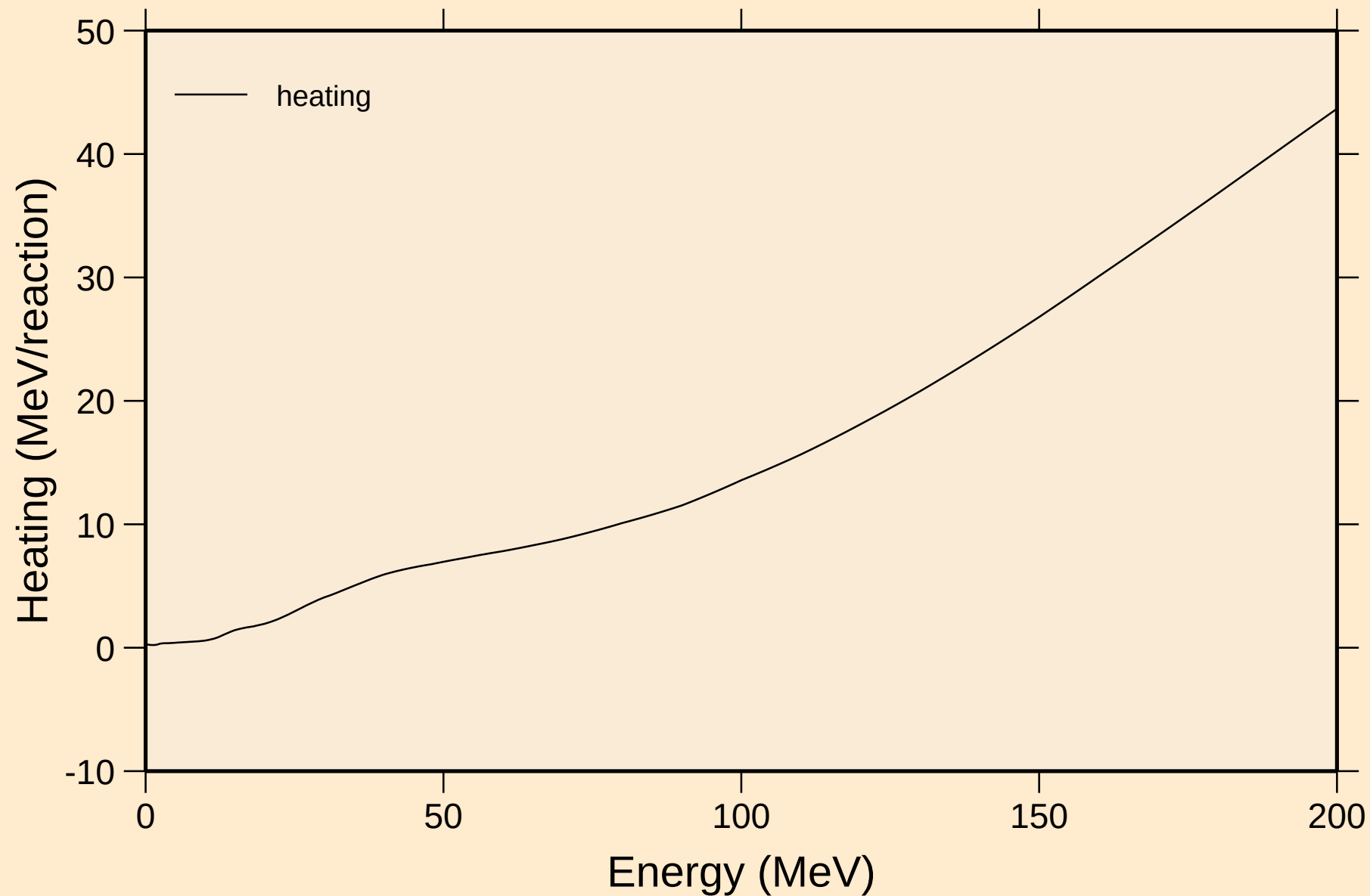
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

Principal cross sections



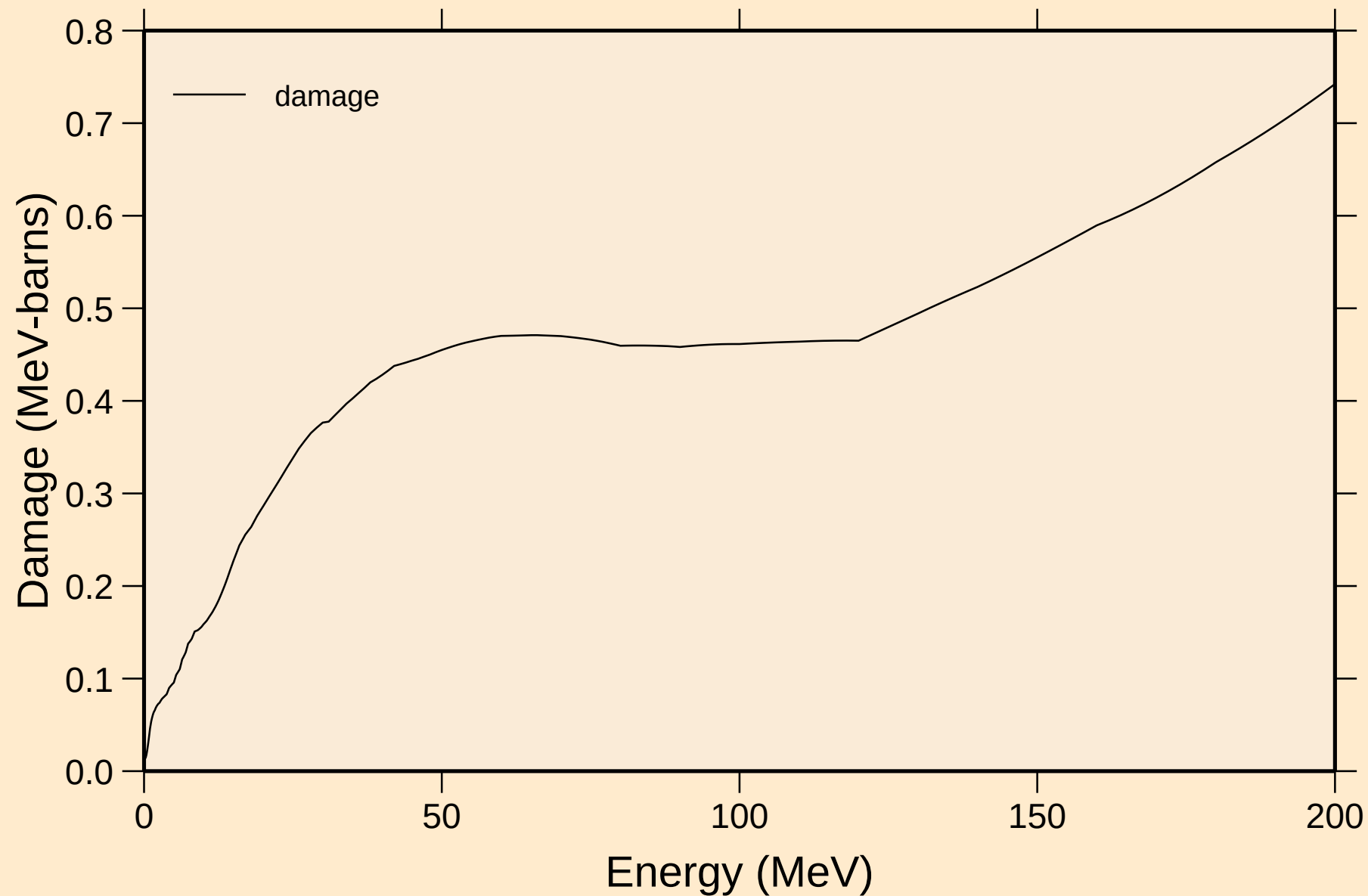
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

Heating

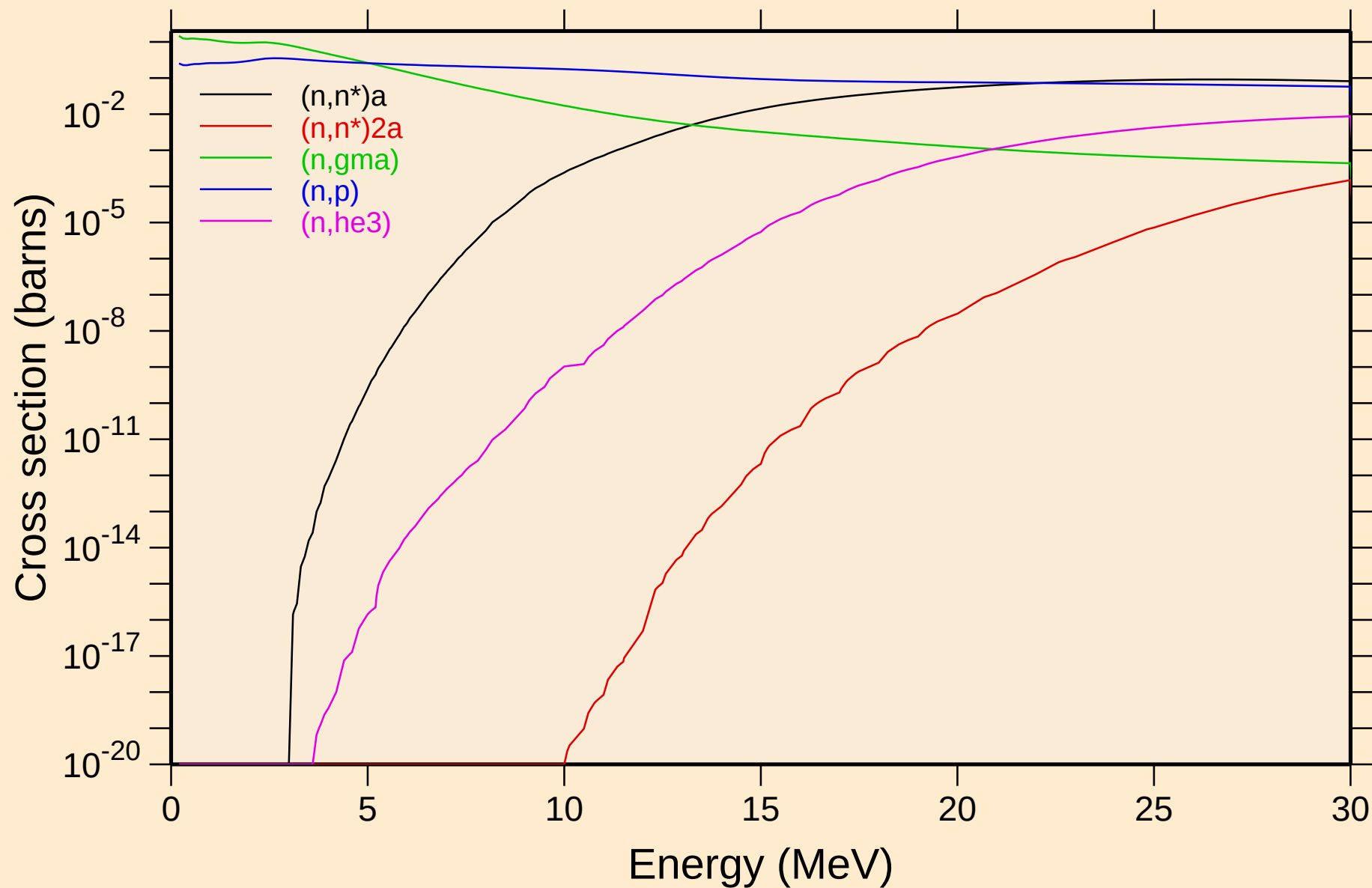


SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

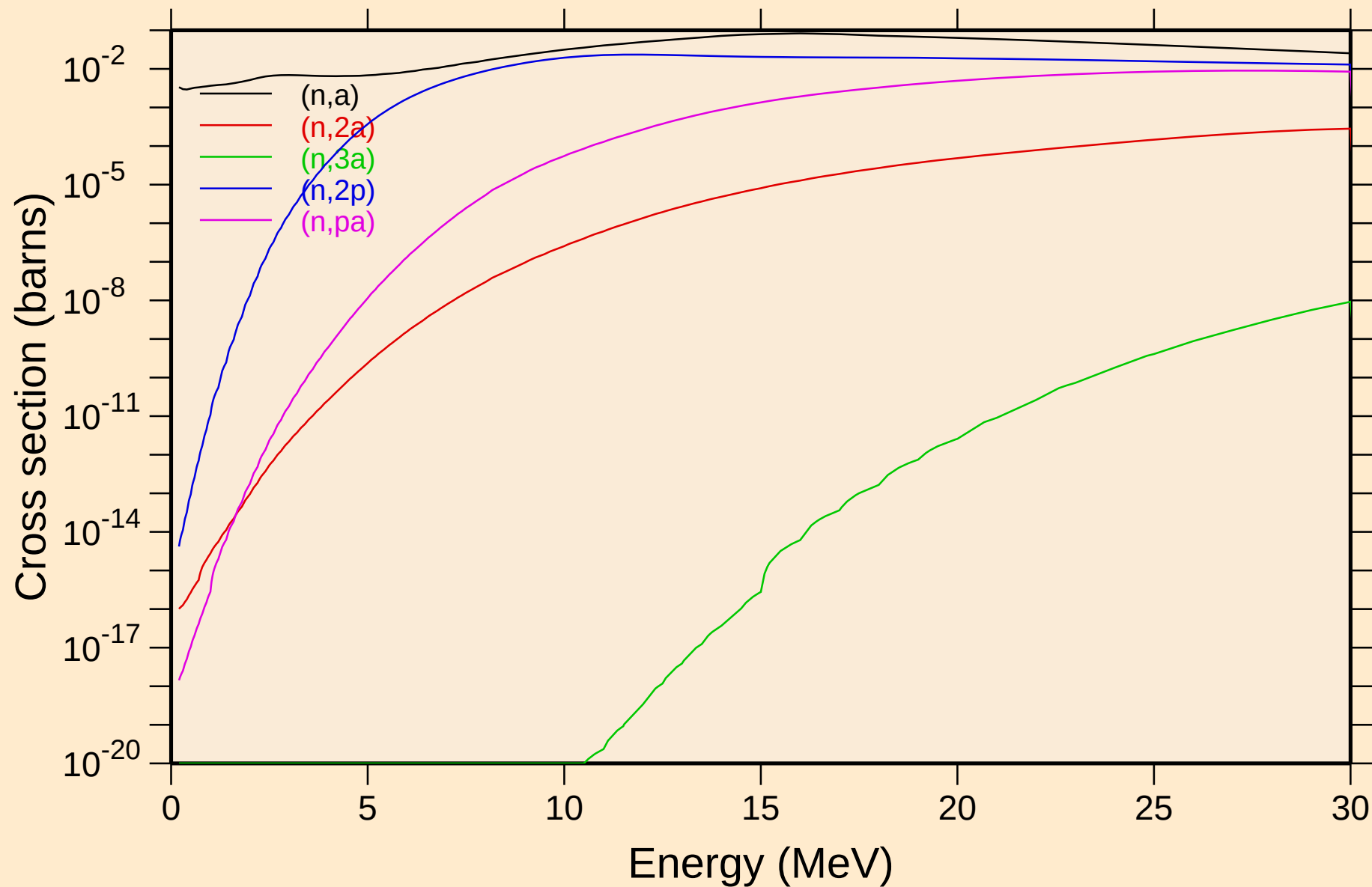
Damage



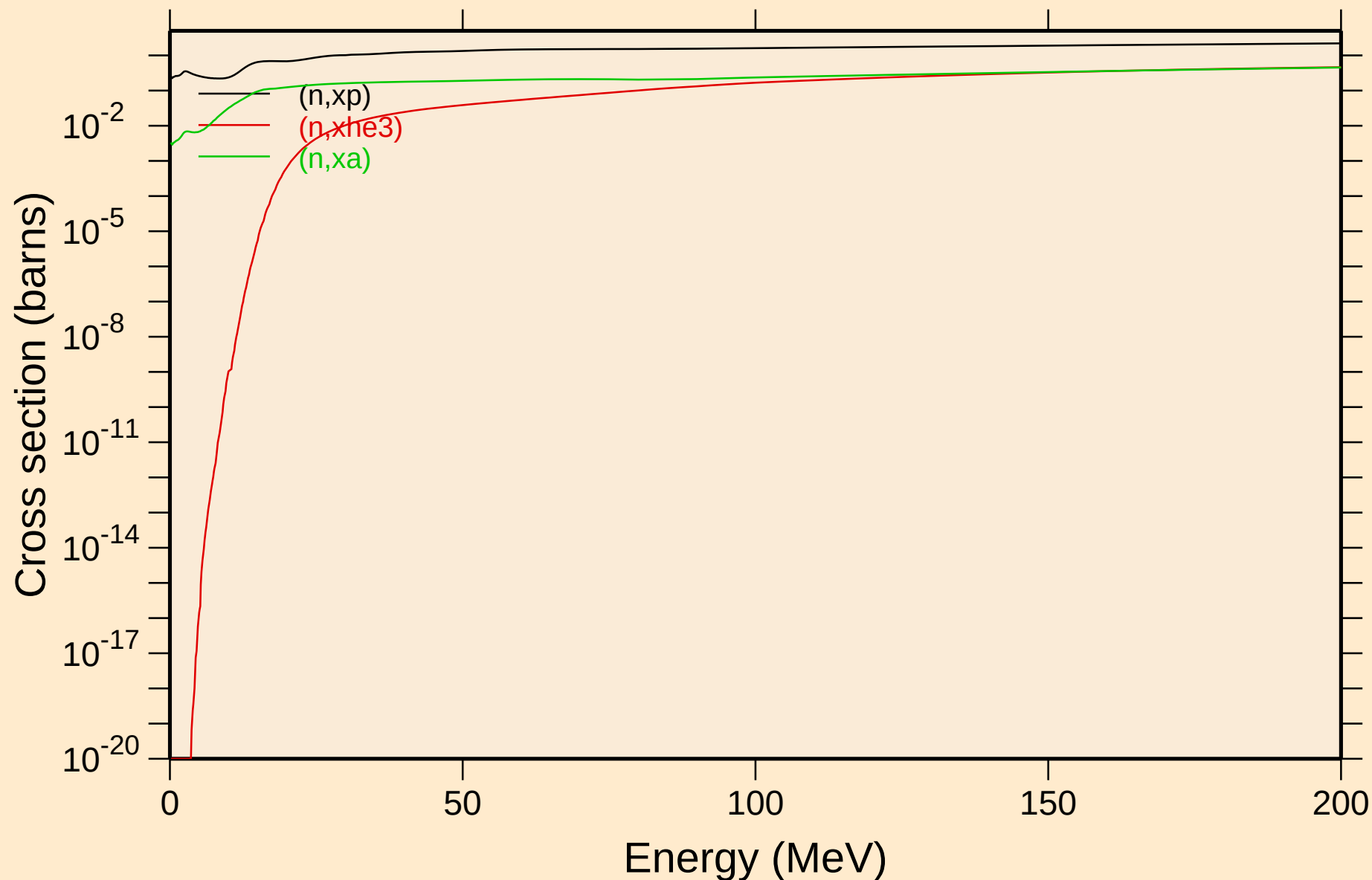
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Non-threshold reactions



SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Non-threshold reactions

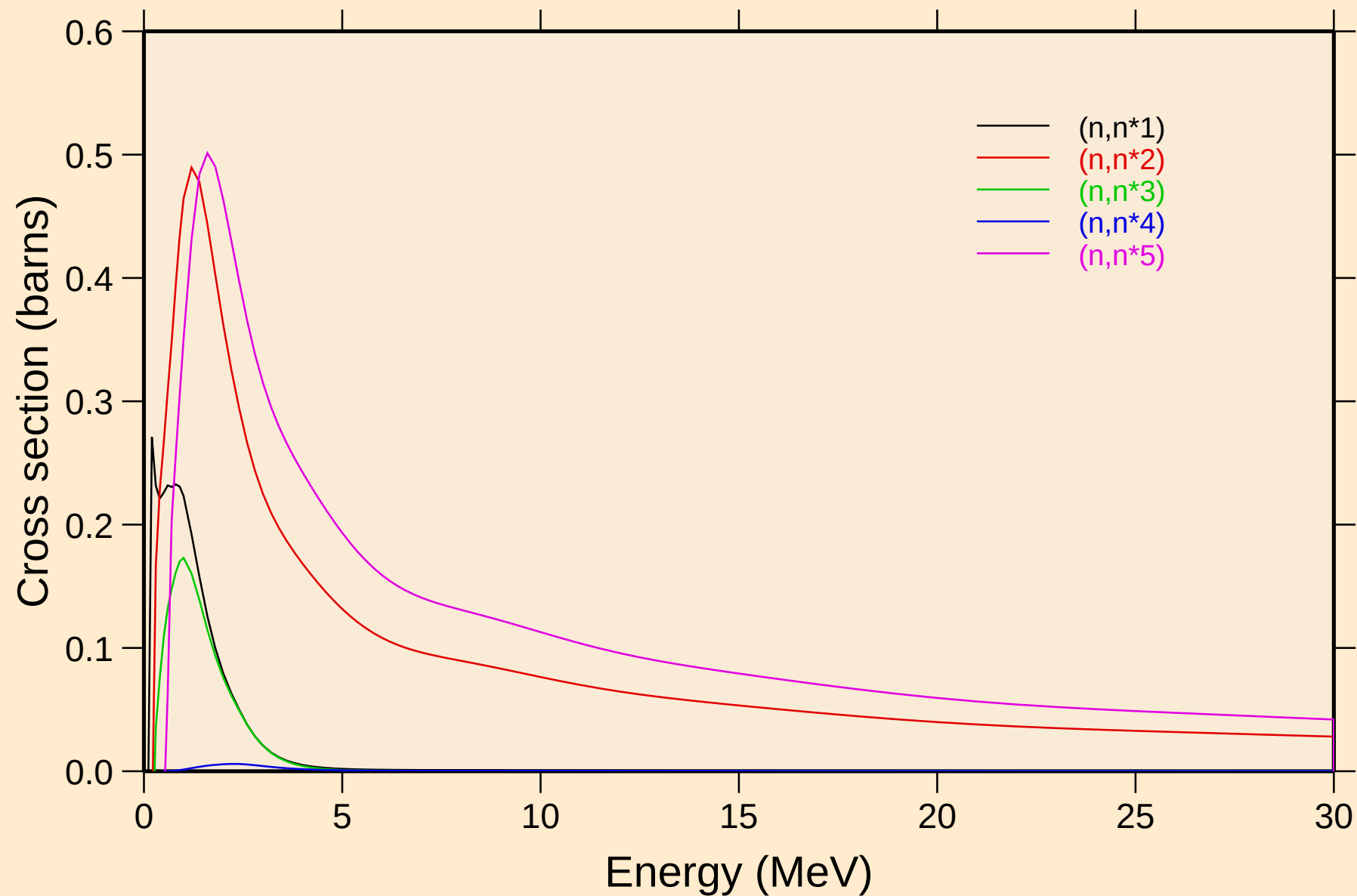


SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Non-threshold reactions



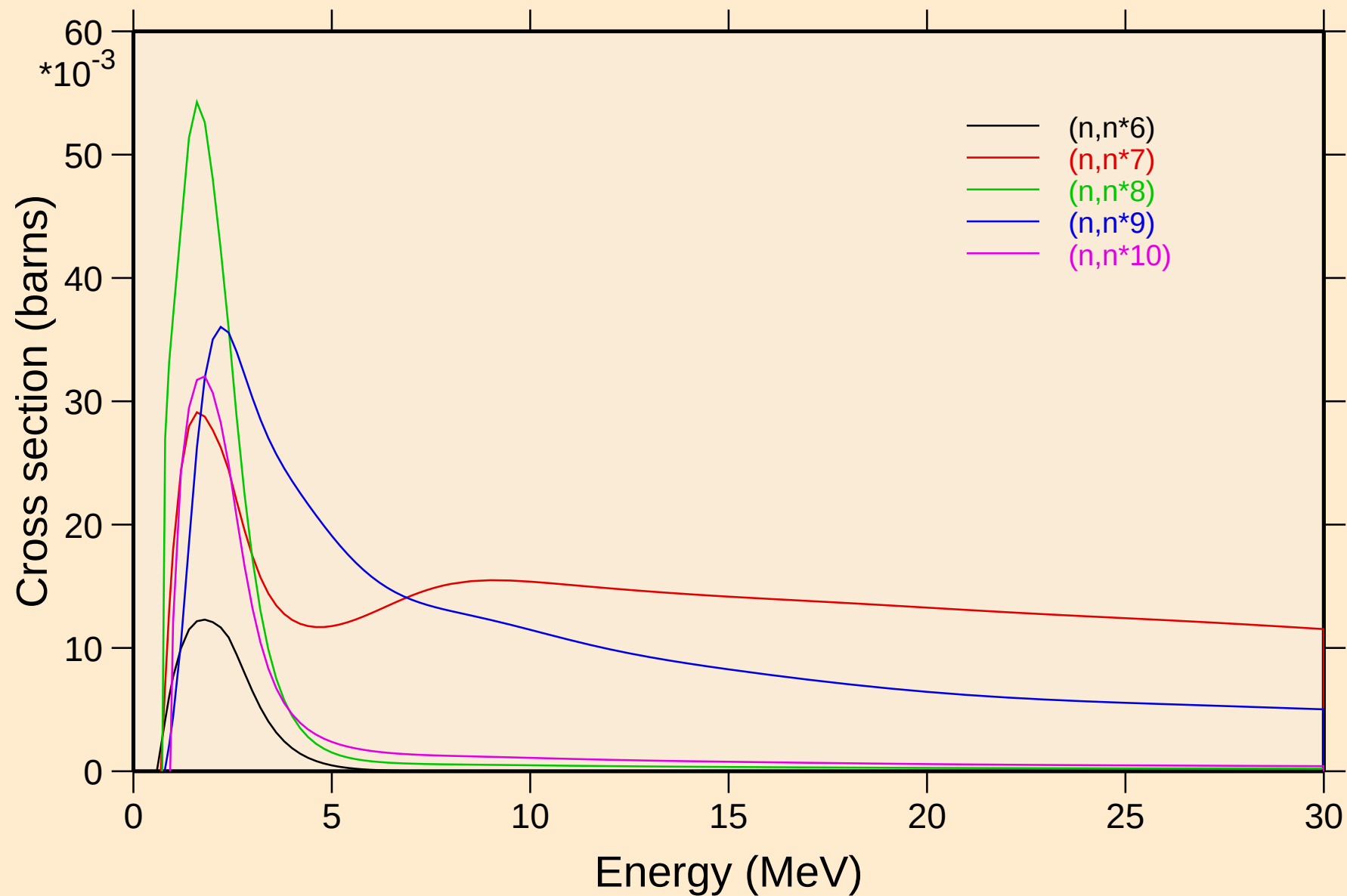
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

Inelastic levels



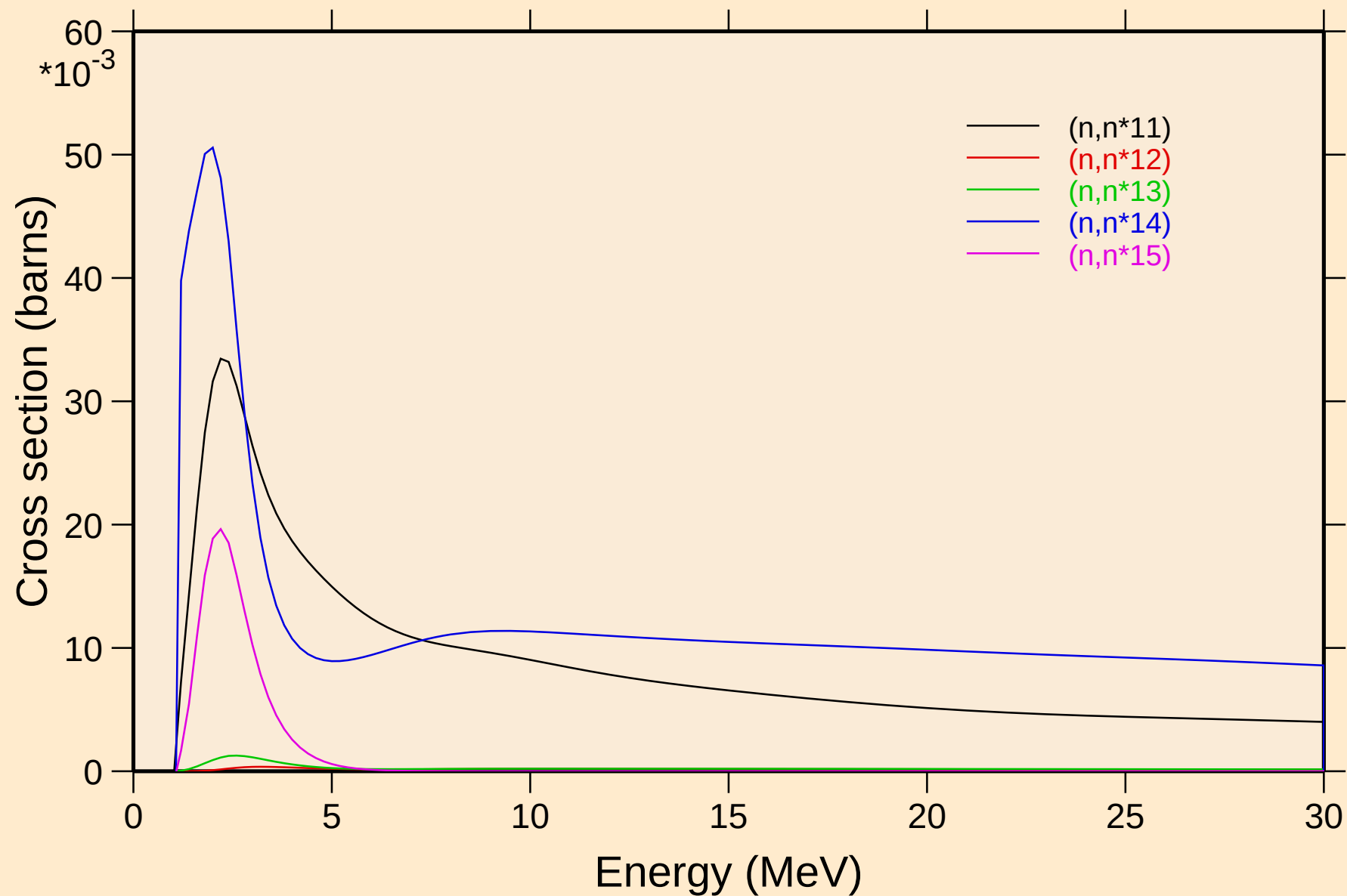
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

Inelastic levels



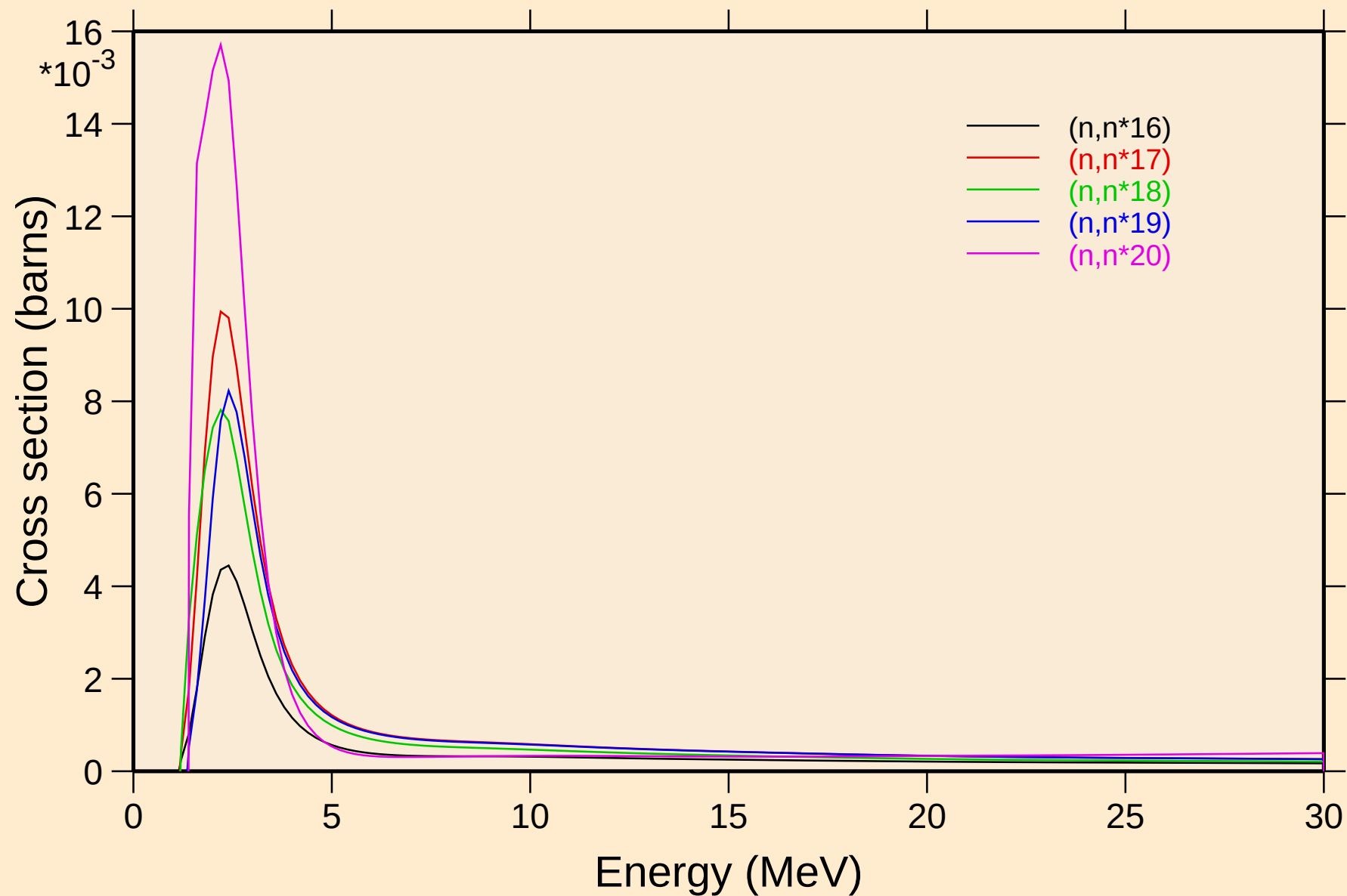
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Inelastic levels



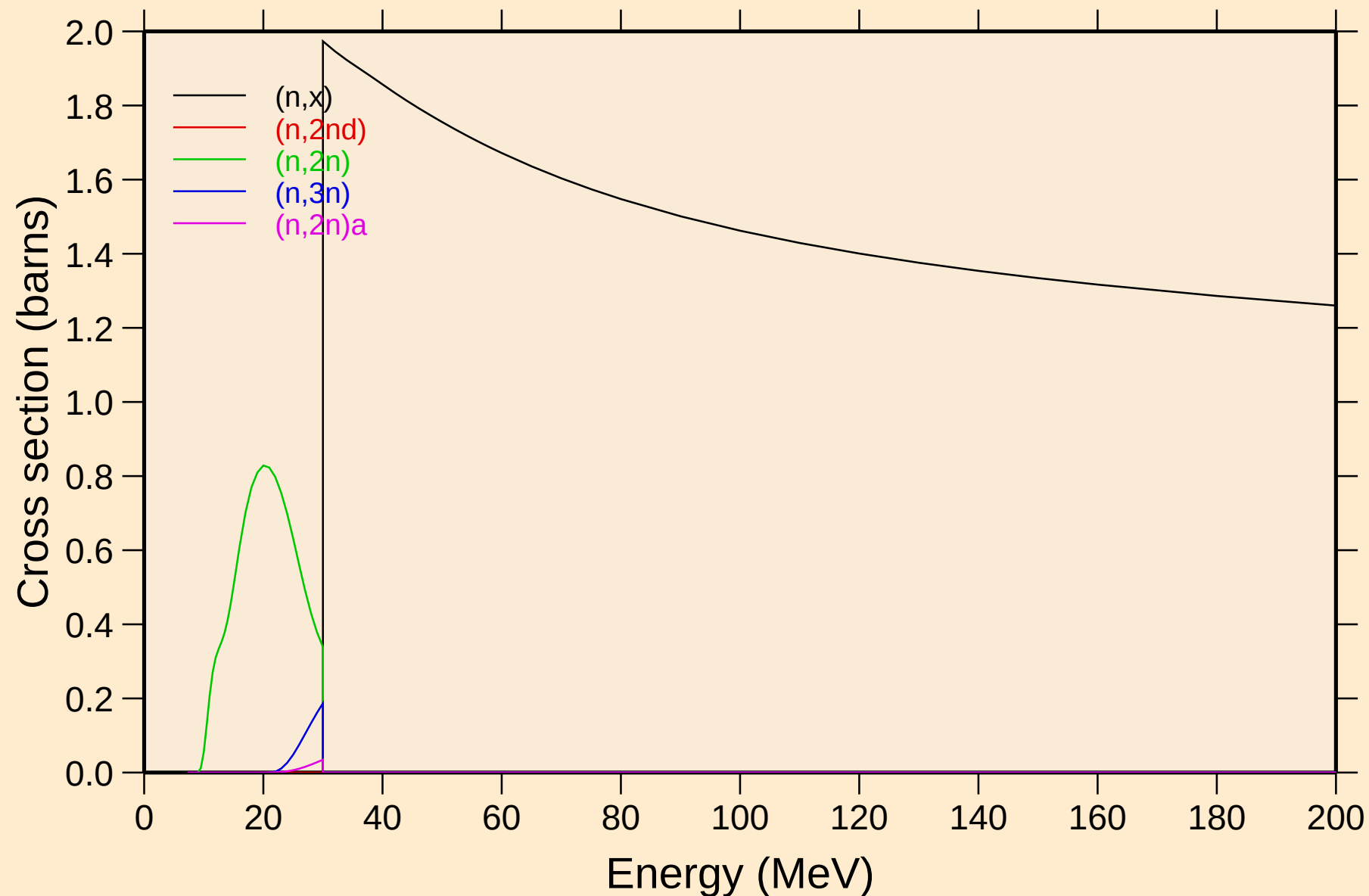
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Inelastic levels

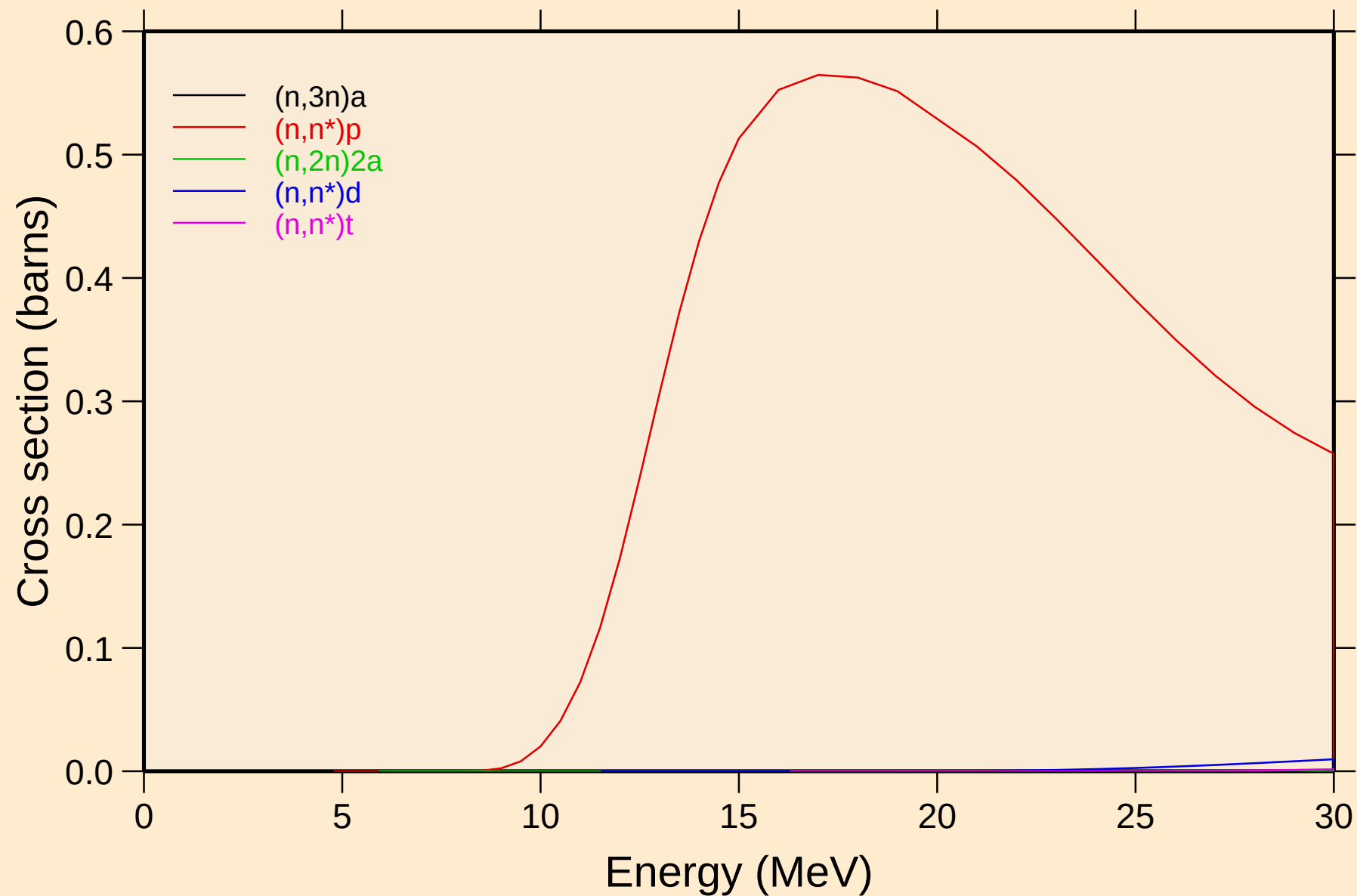


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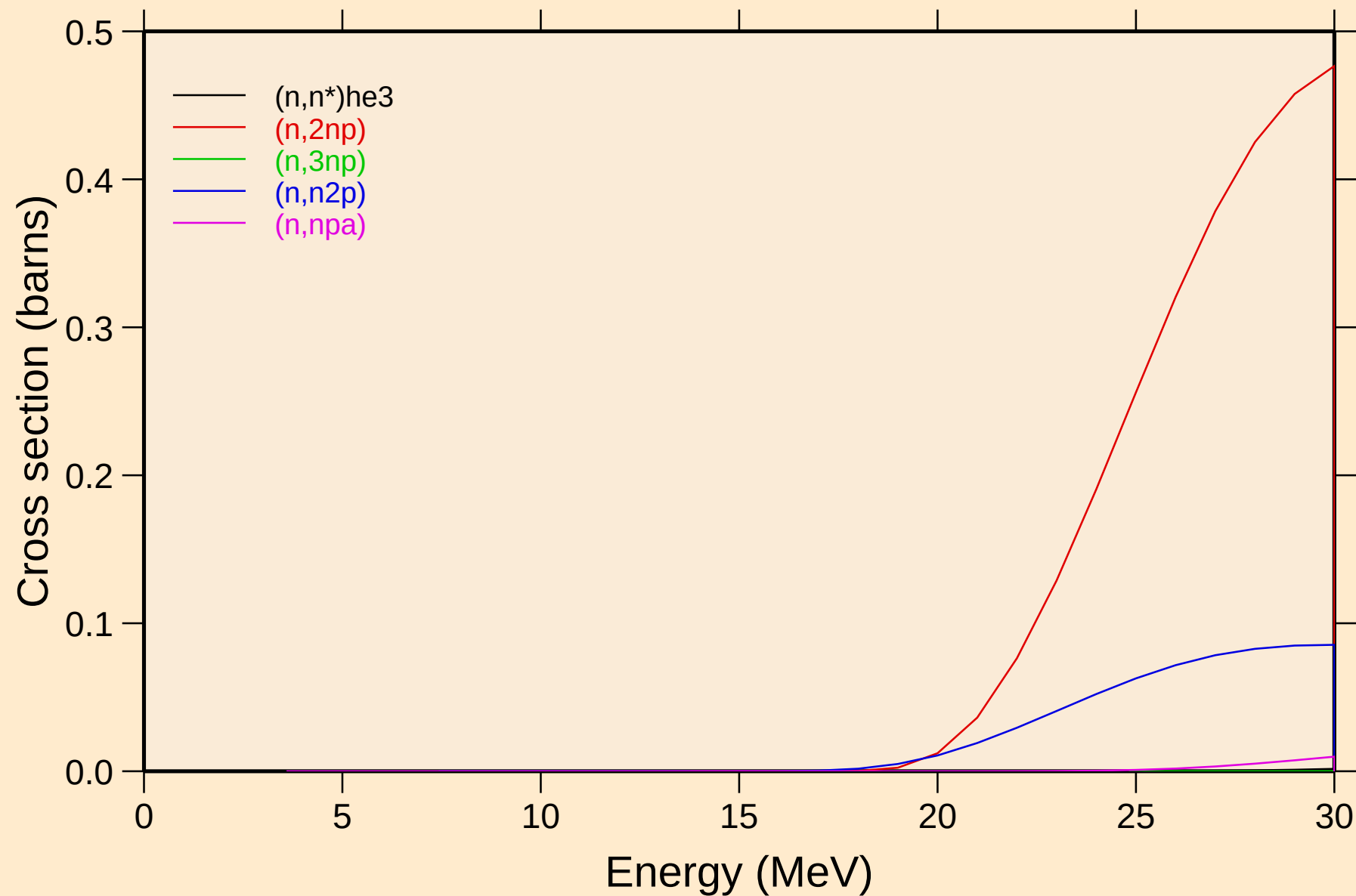
Threshold reactions



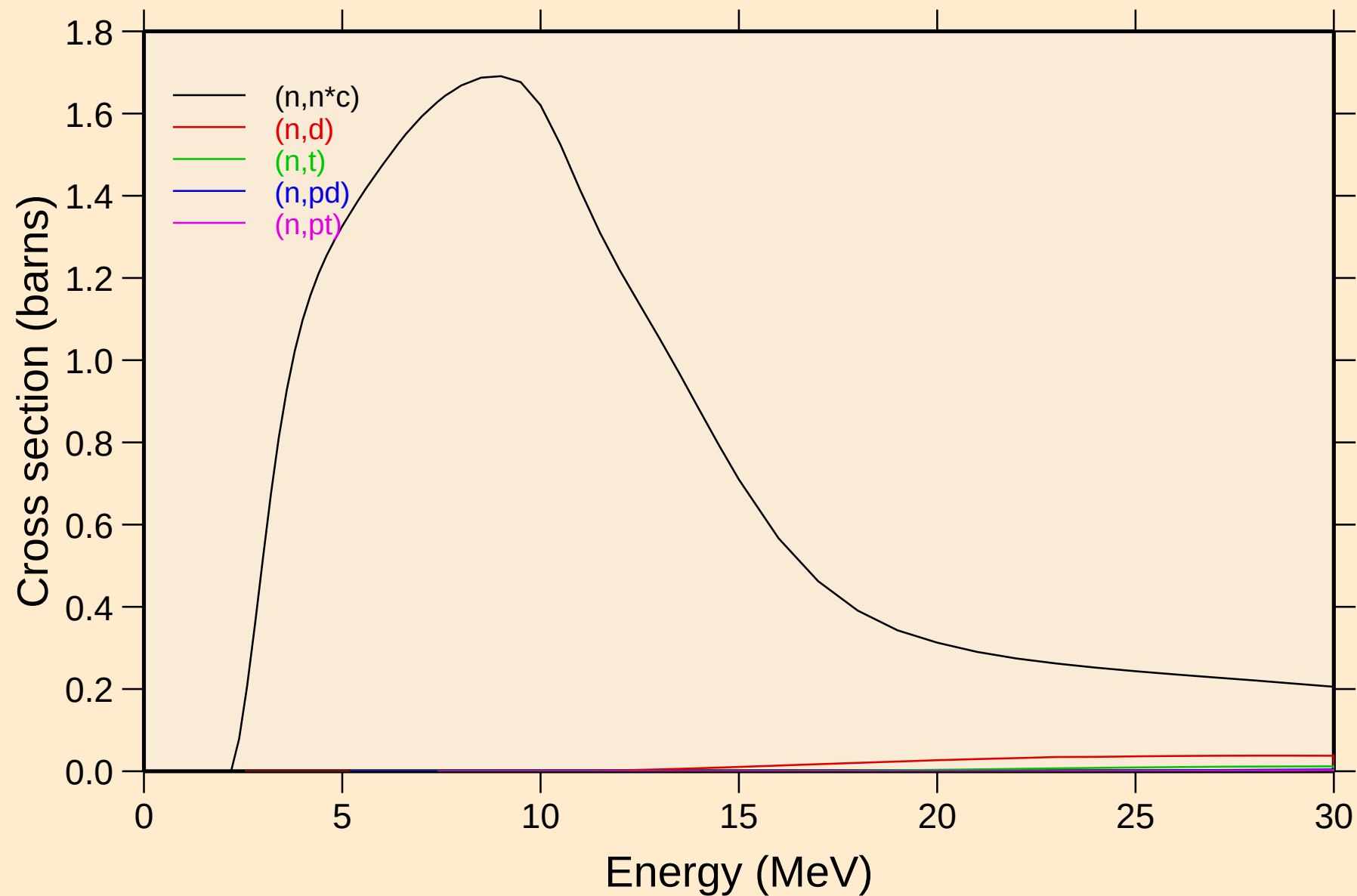
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Threshold reactions



SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Threshold reactions

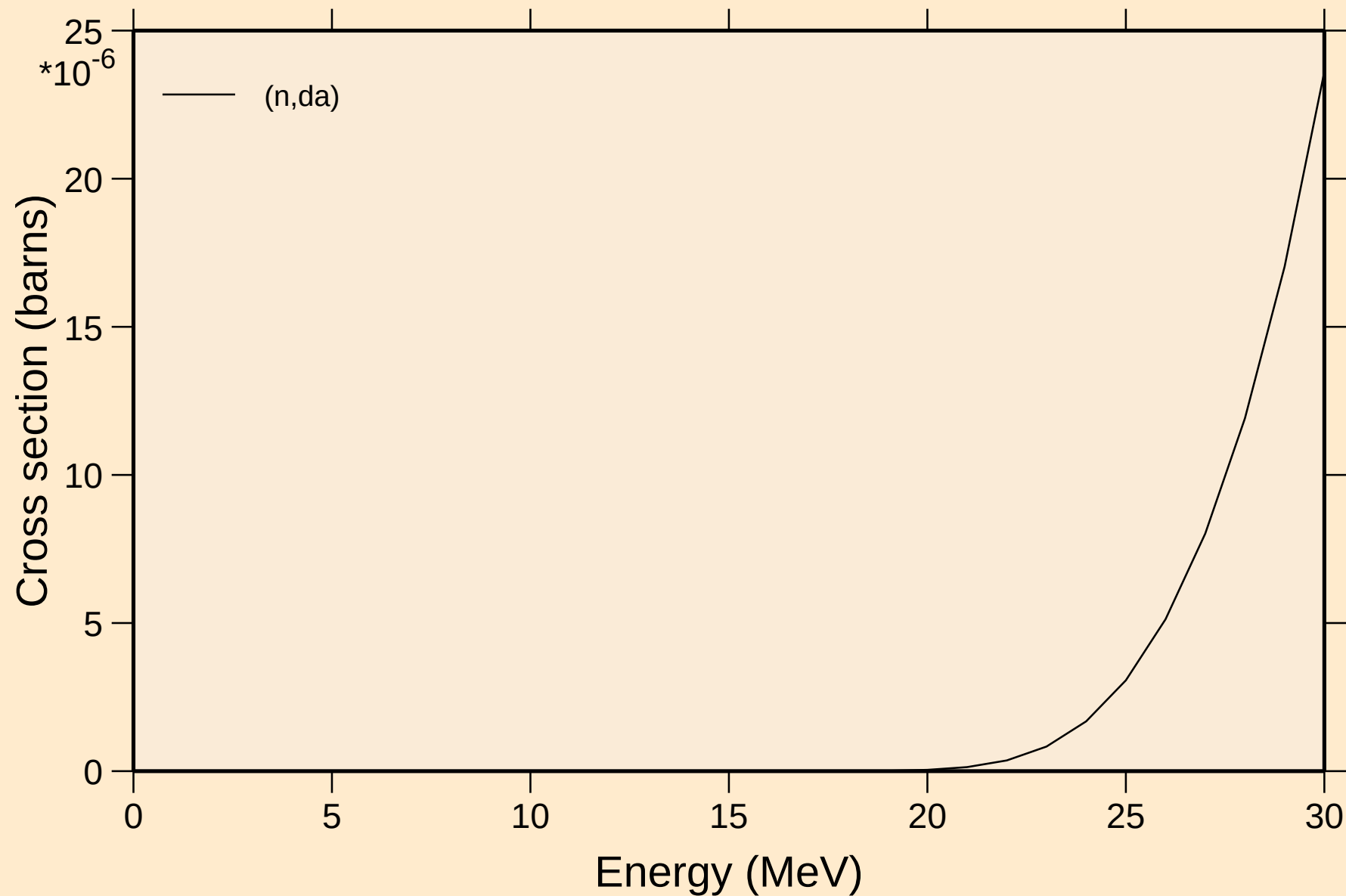


SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Threshold reactions



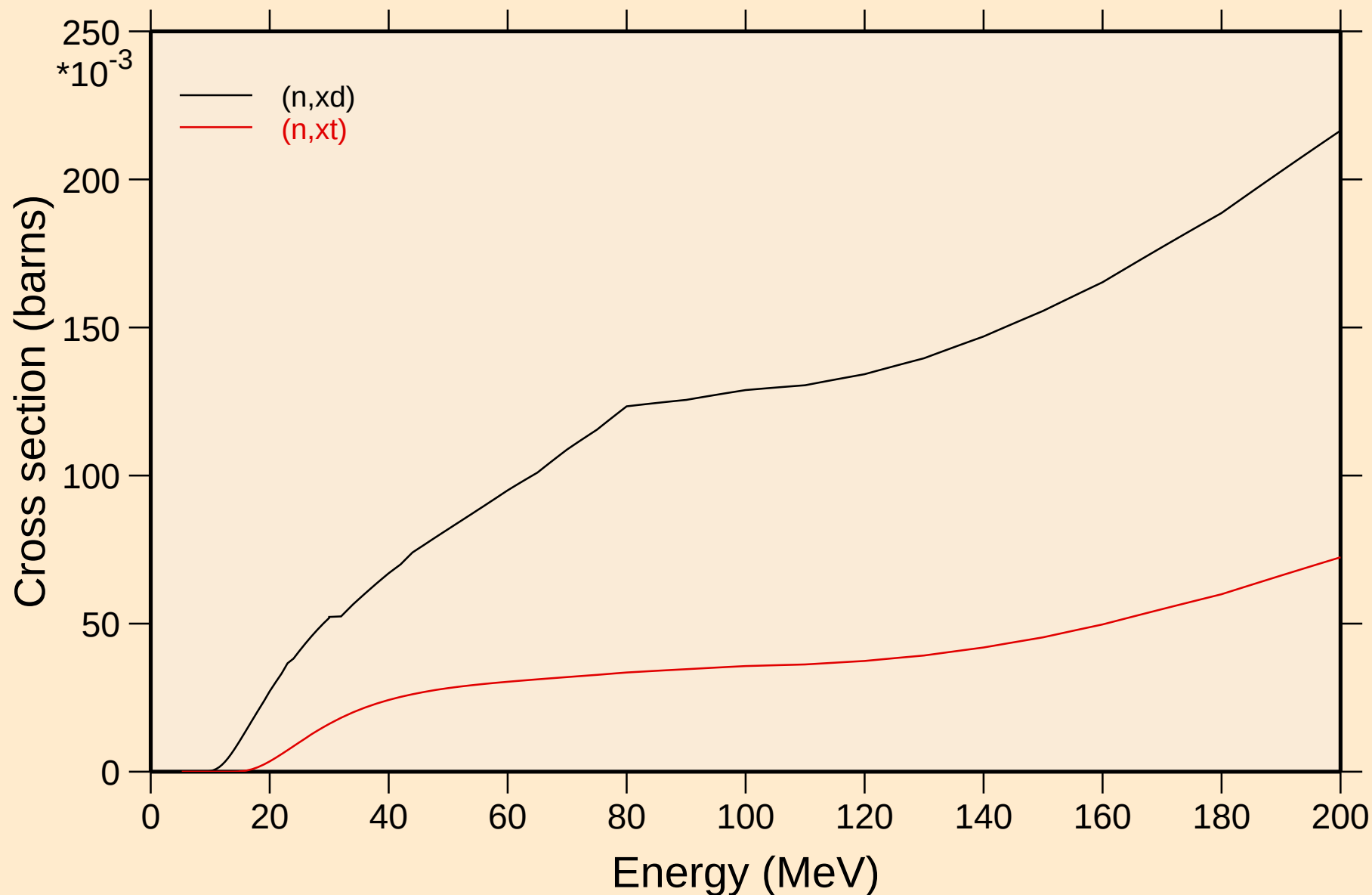
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

Threshold reactions

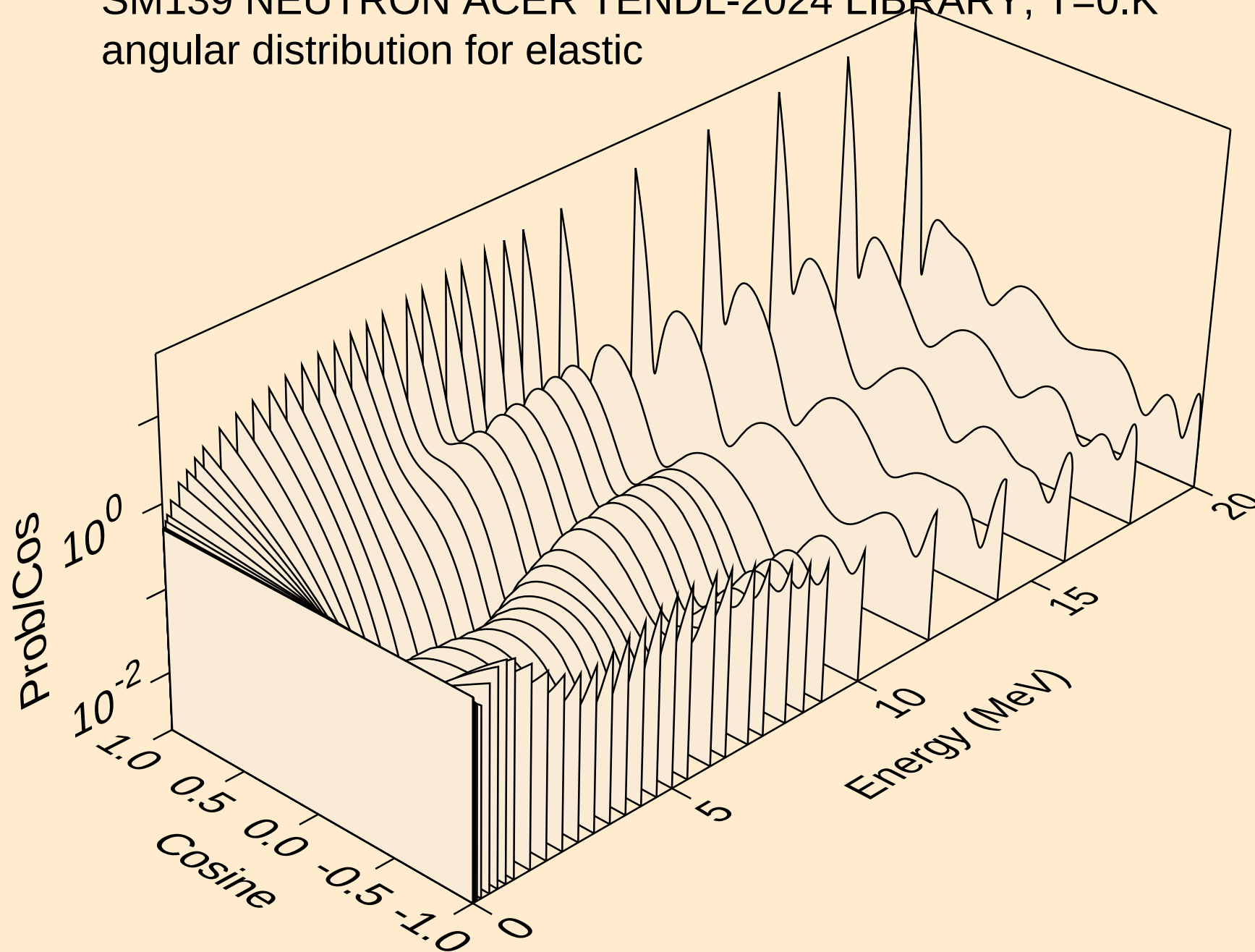


SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

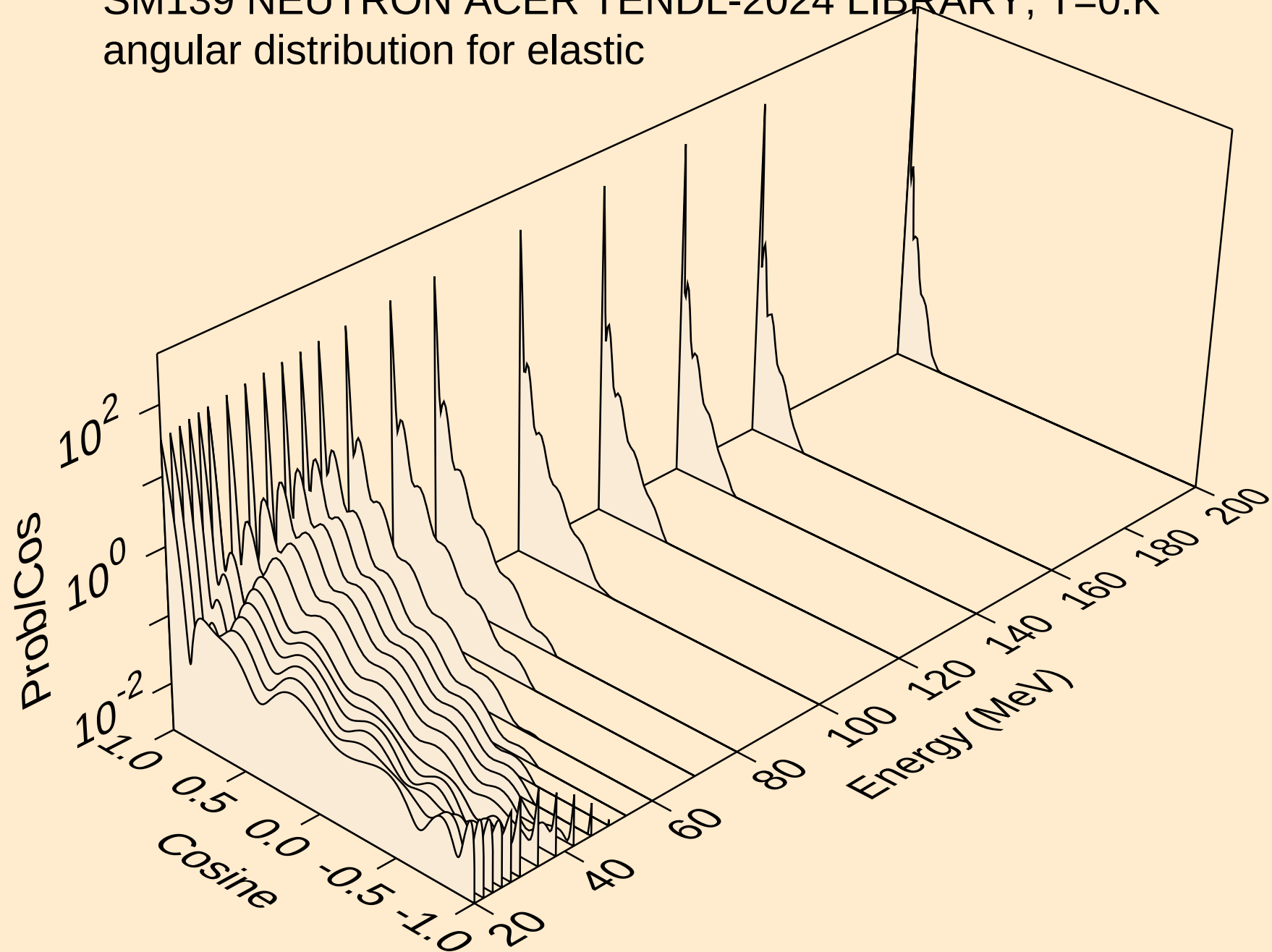
Threshold reactions



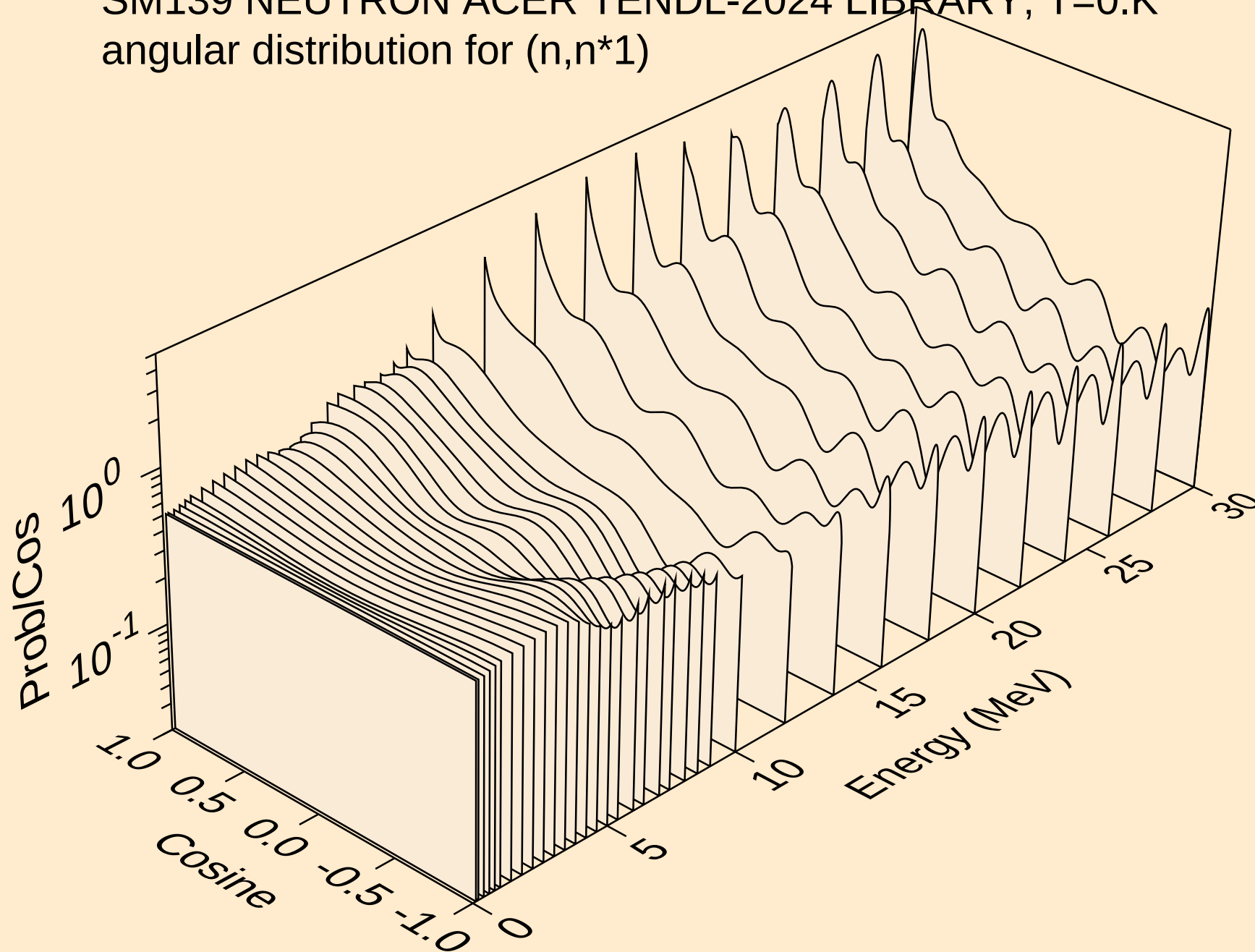
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
angular distribution for elastic



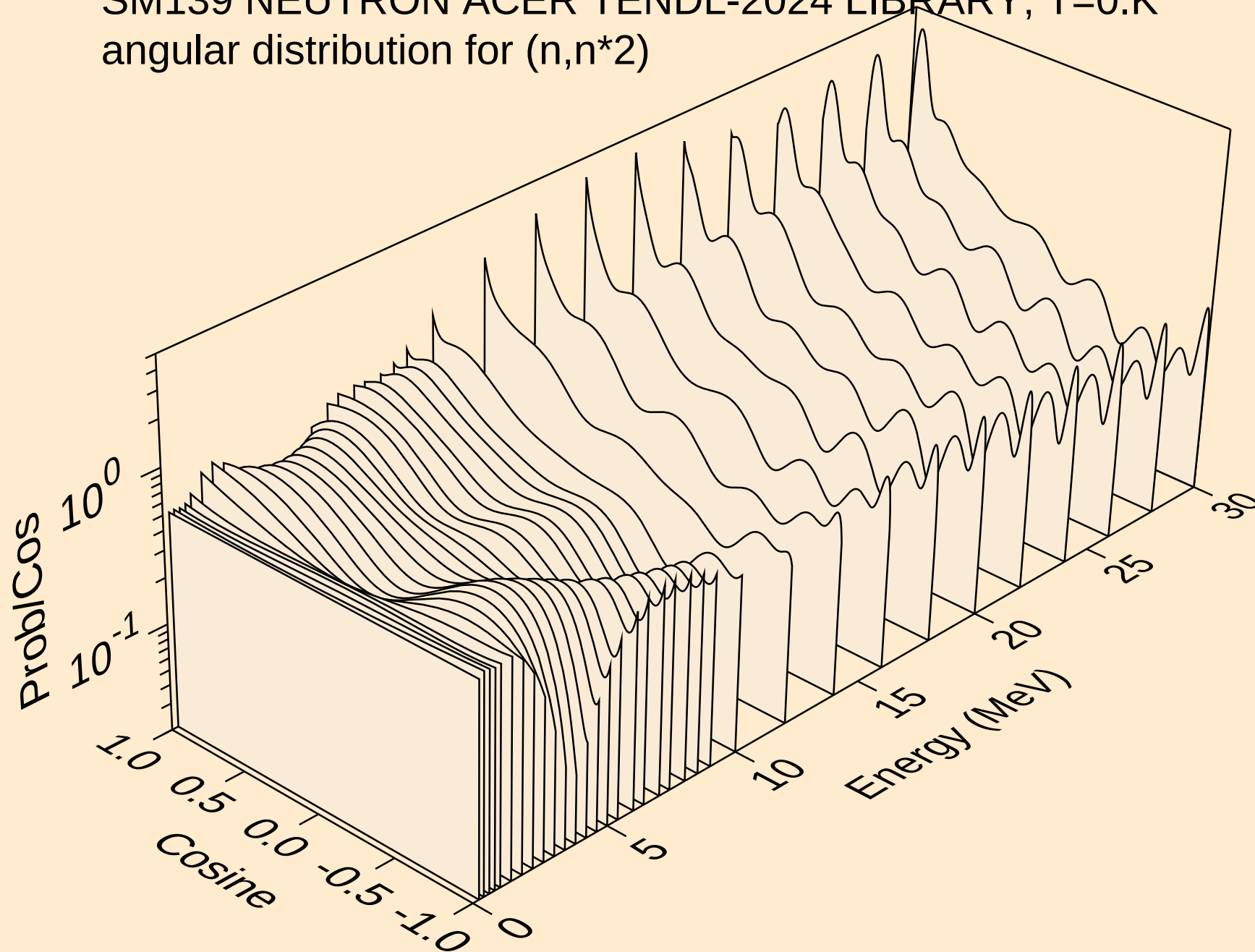
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
angular distribution for elastic



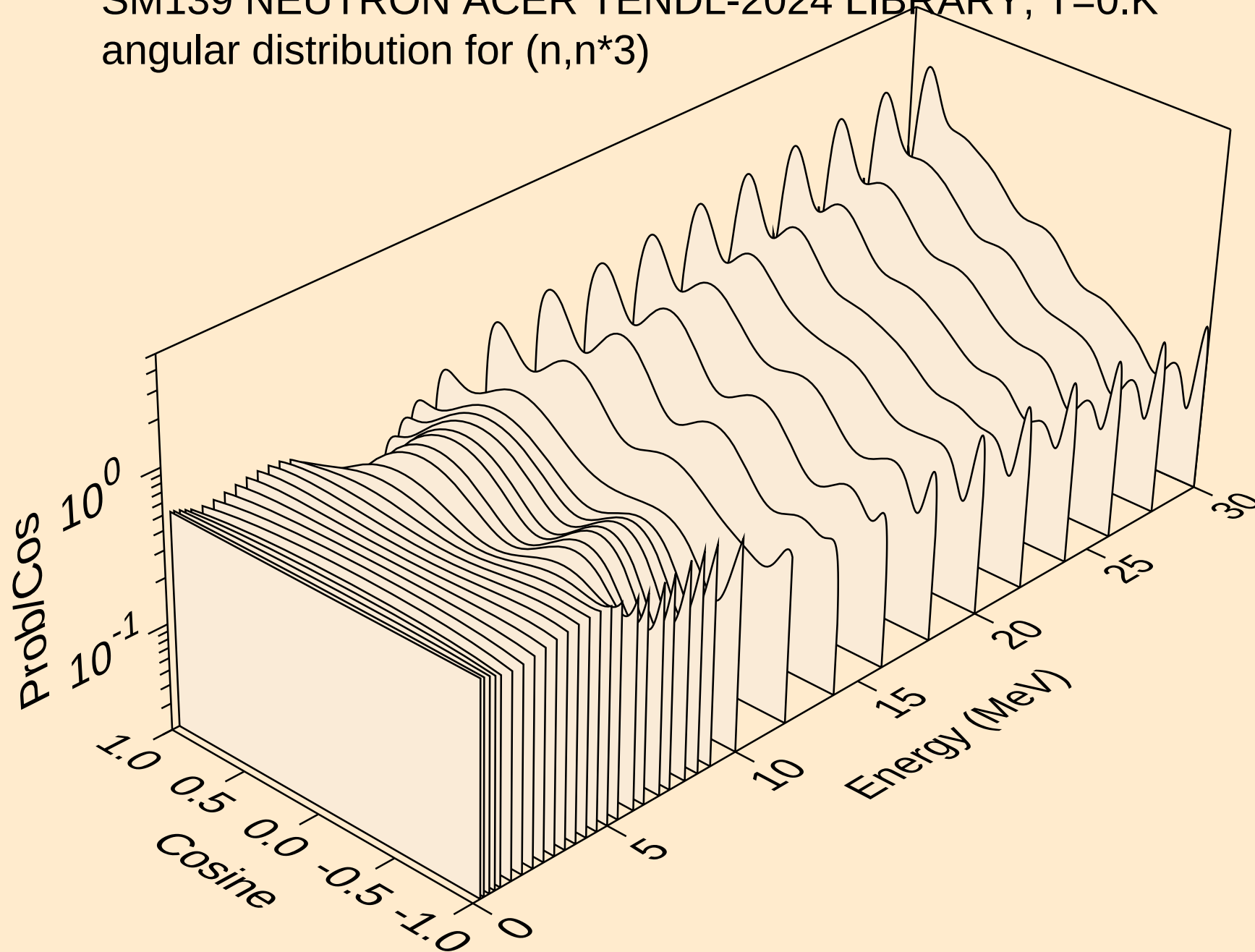
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
angular distribution for (n,n*1)



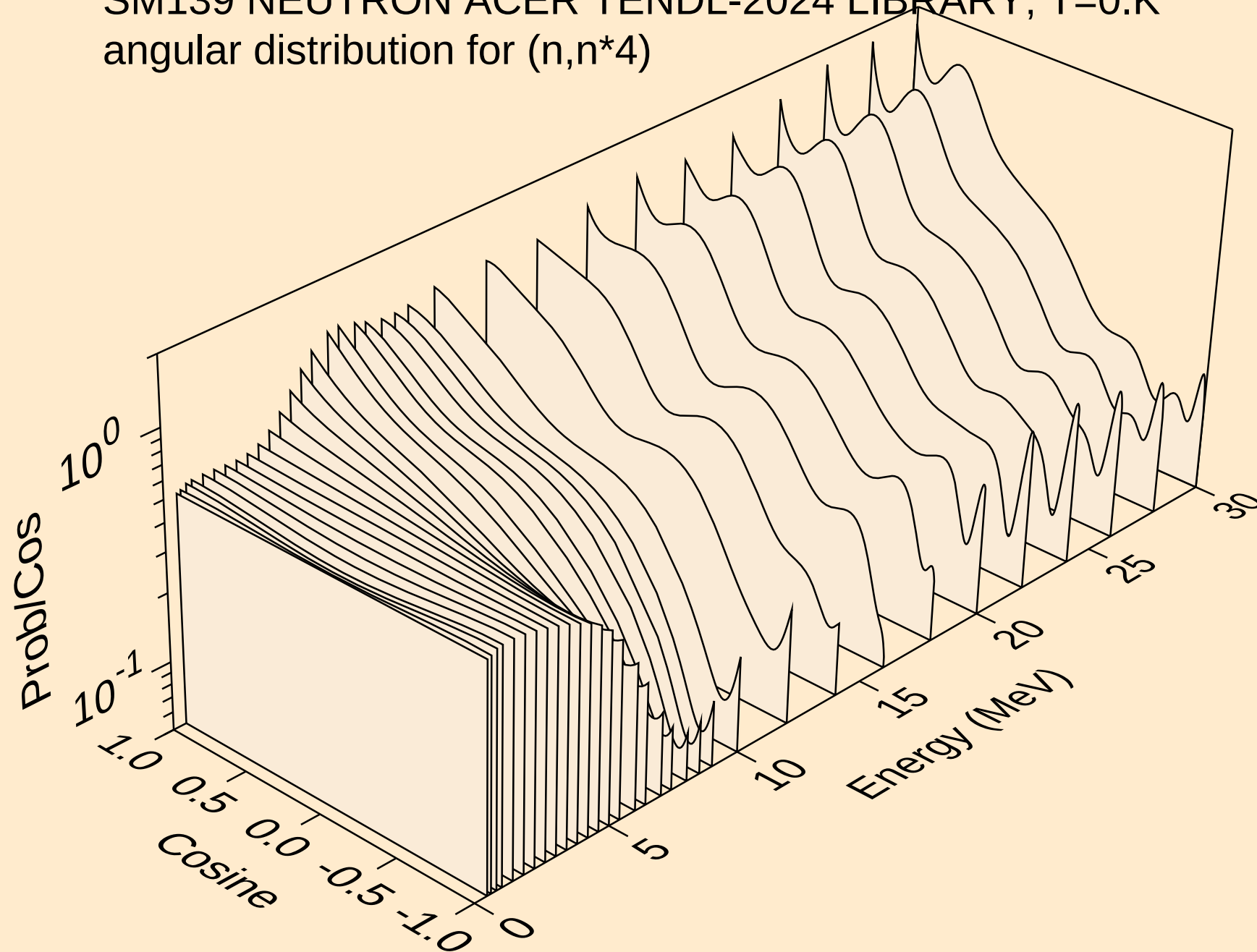
SM139 NEUTRON ACER TENDL-2024 LIBRARY; $T=0.K$
angular distribution for (n,n*2)



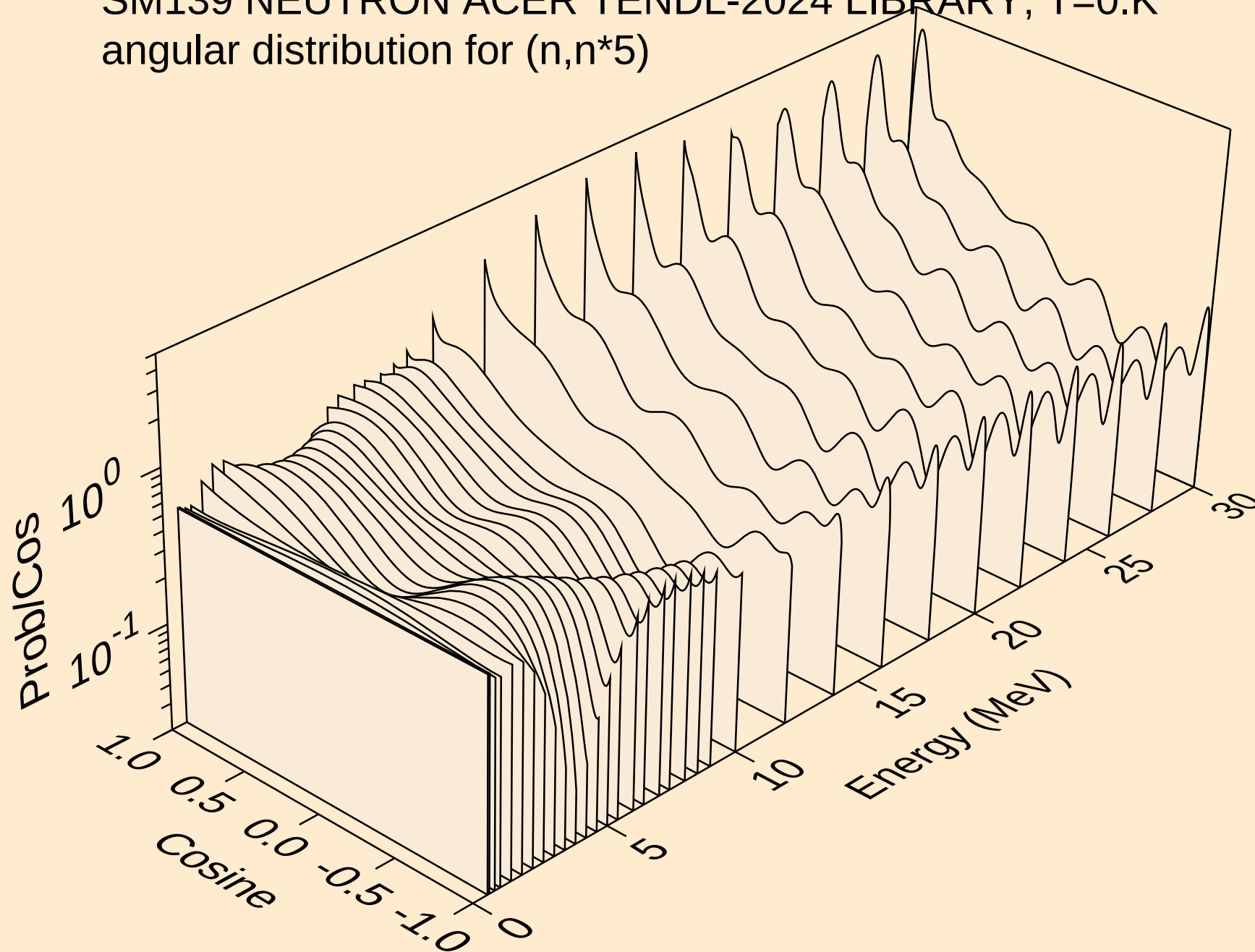
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angular distribution for (n,n*3)



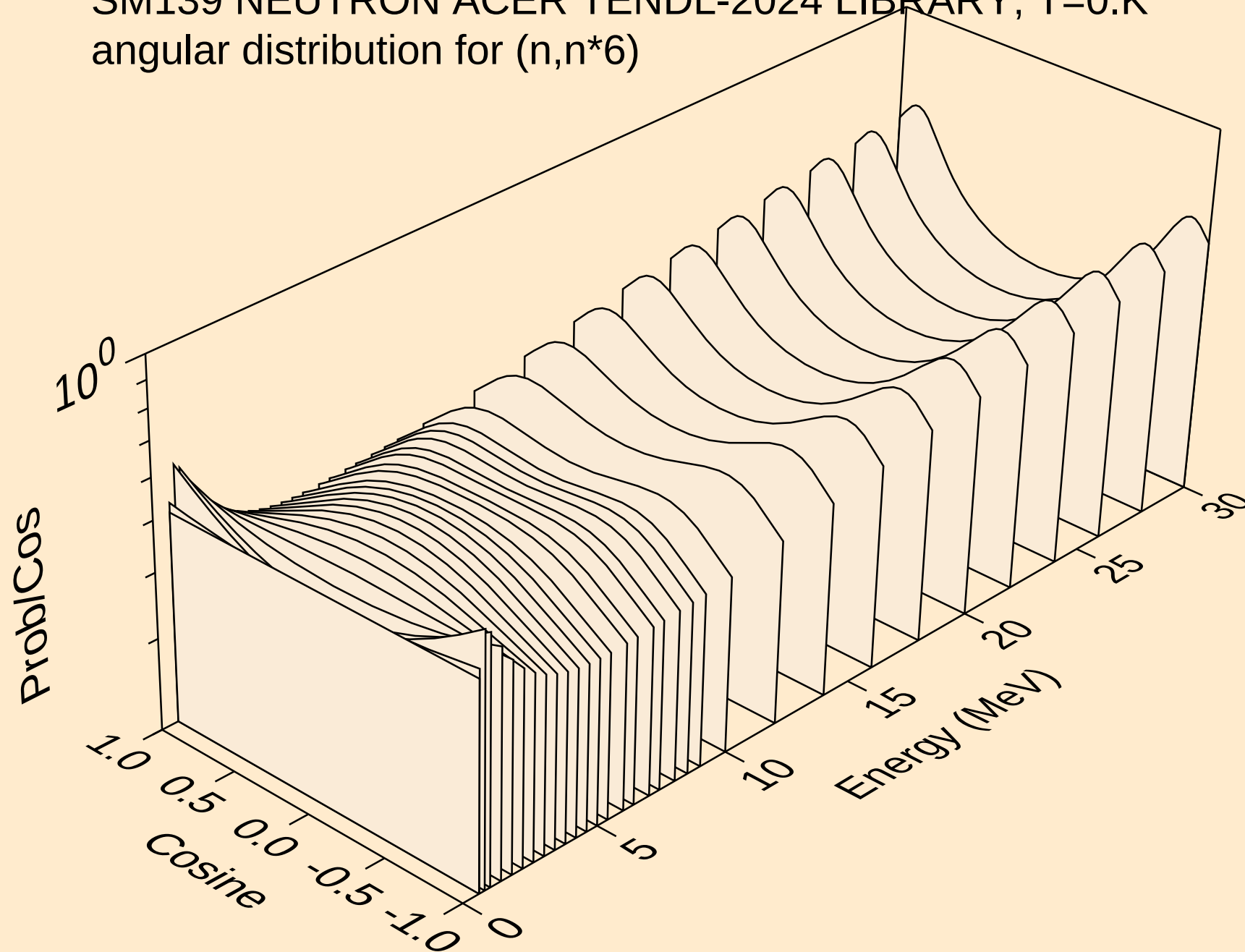
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angular distribution for (n,n*4)



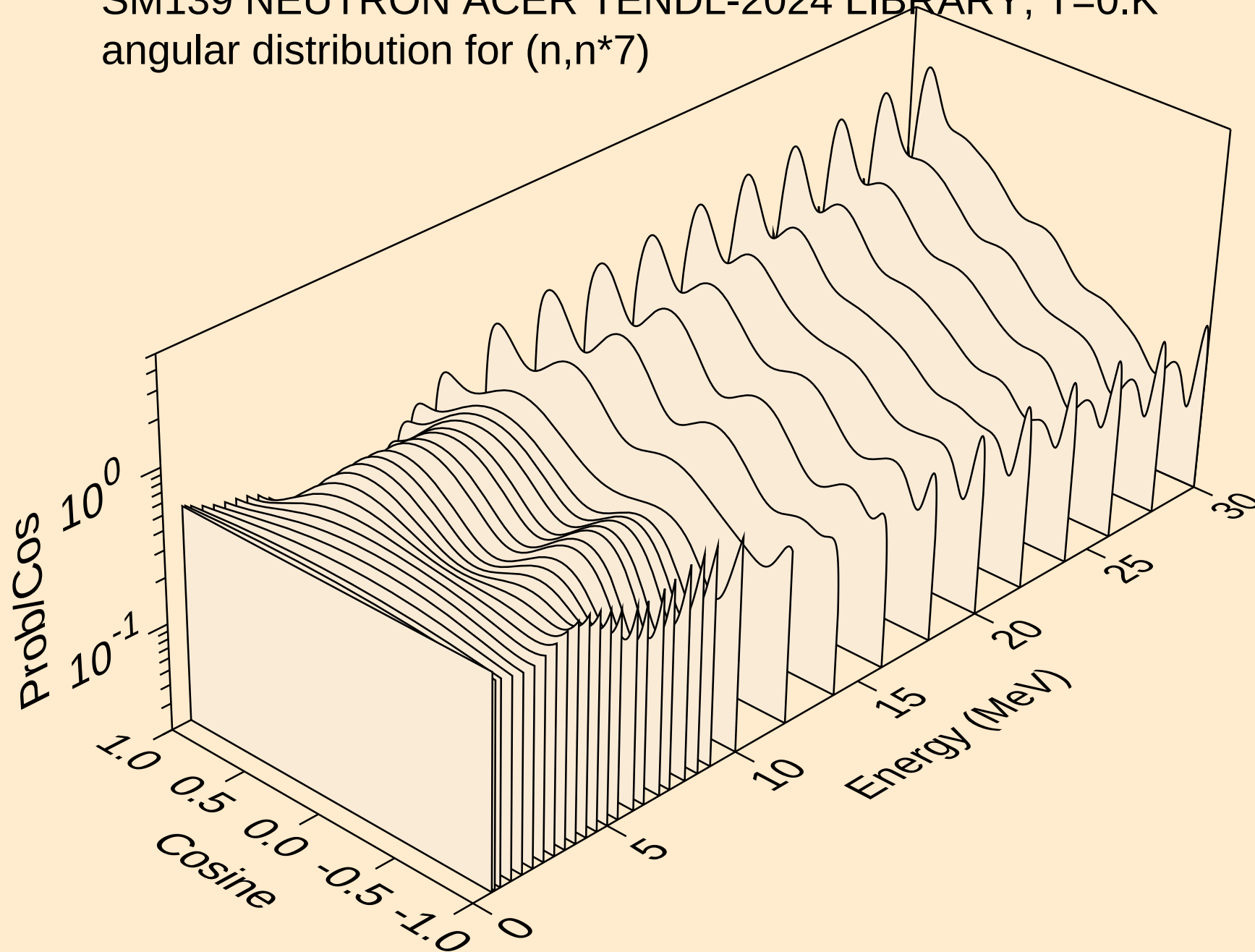
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angular distribution for (n,n*5)



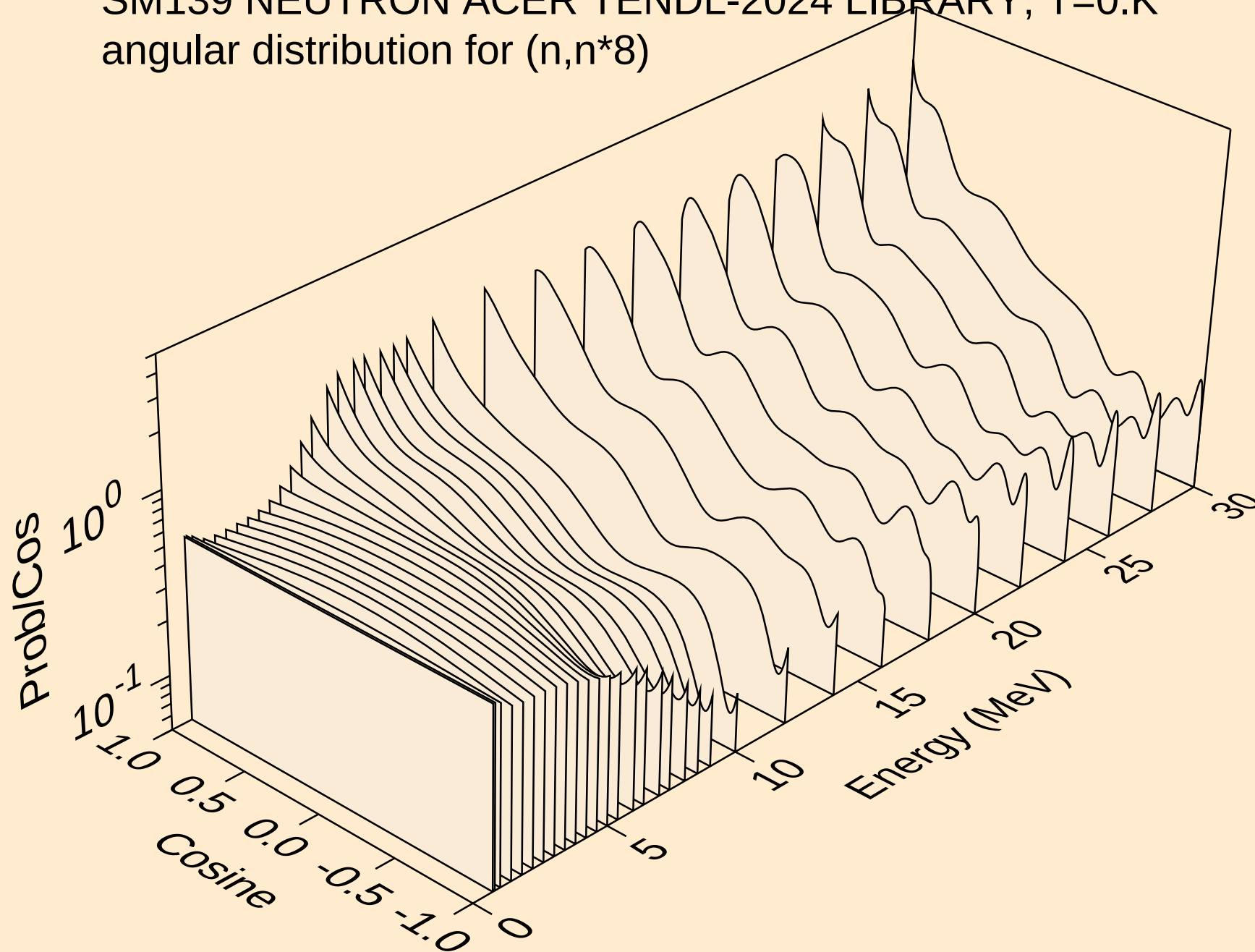
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angular distribution for (n,n*6)



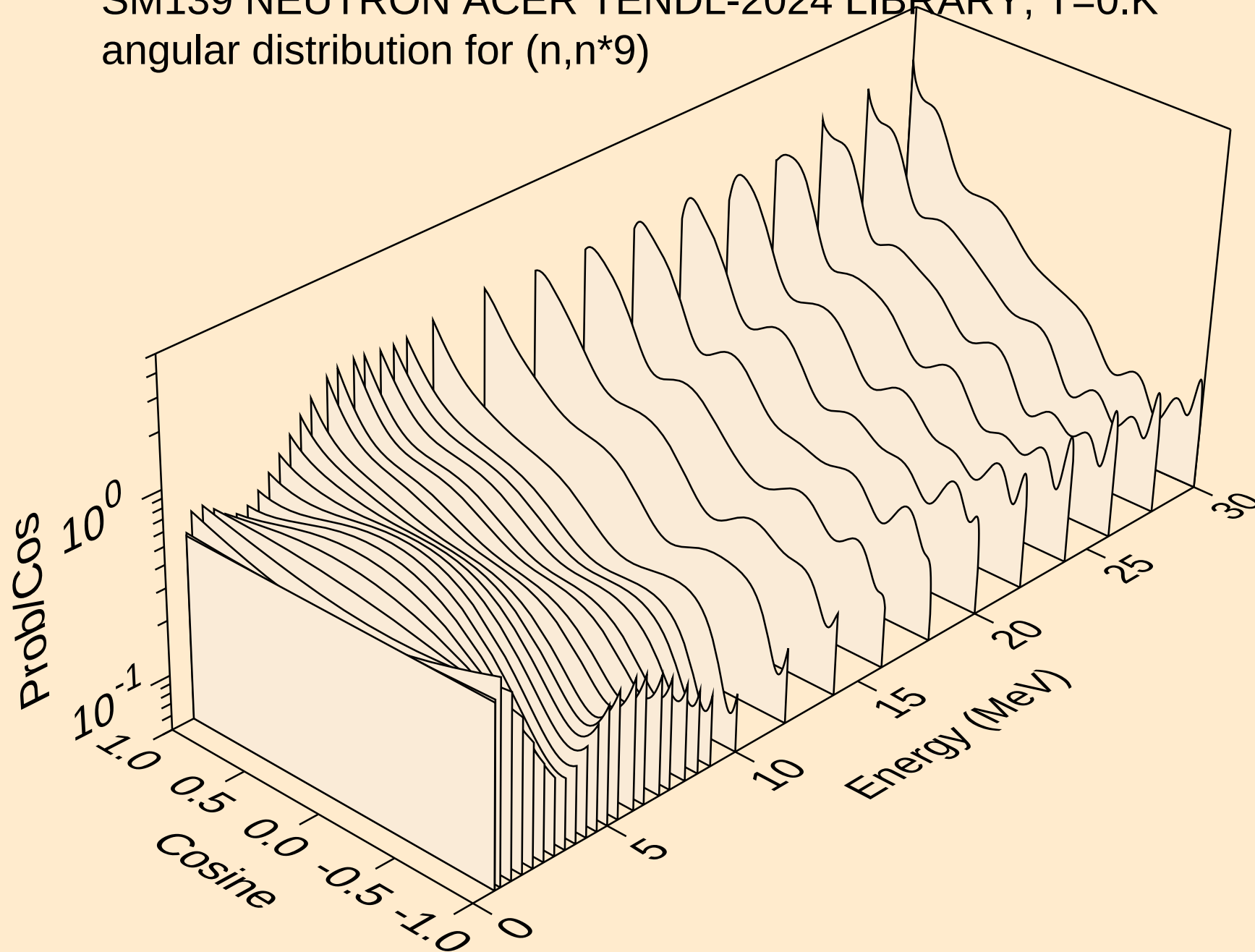
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angular distribution for (n,n*7)



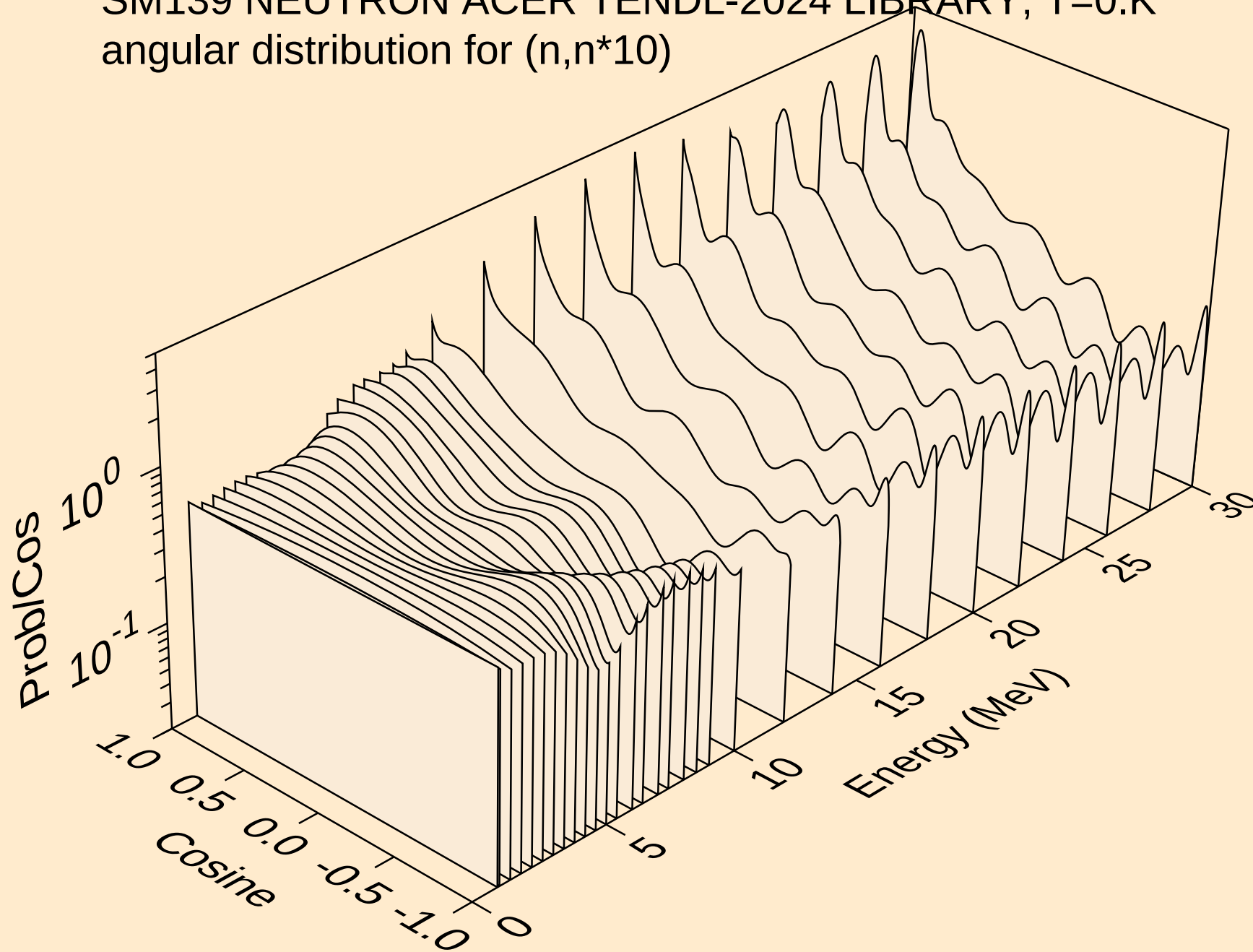
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angular distribution for (n,n*8)



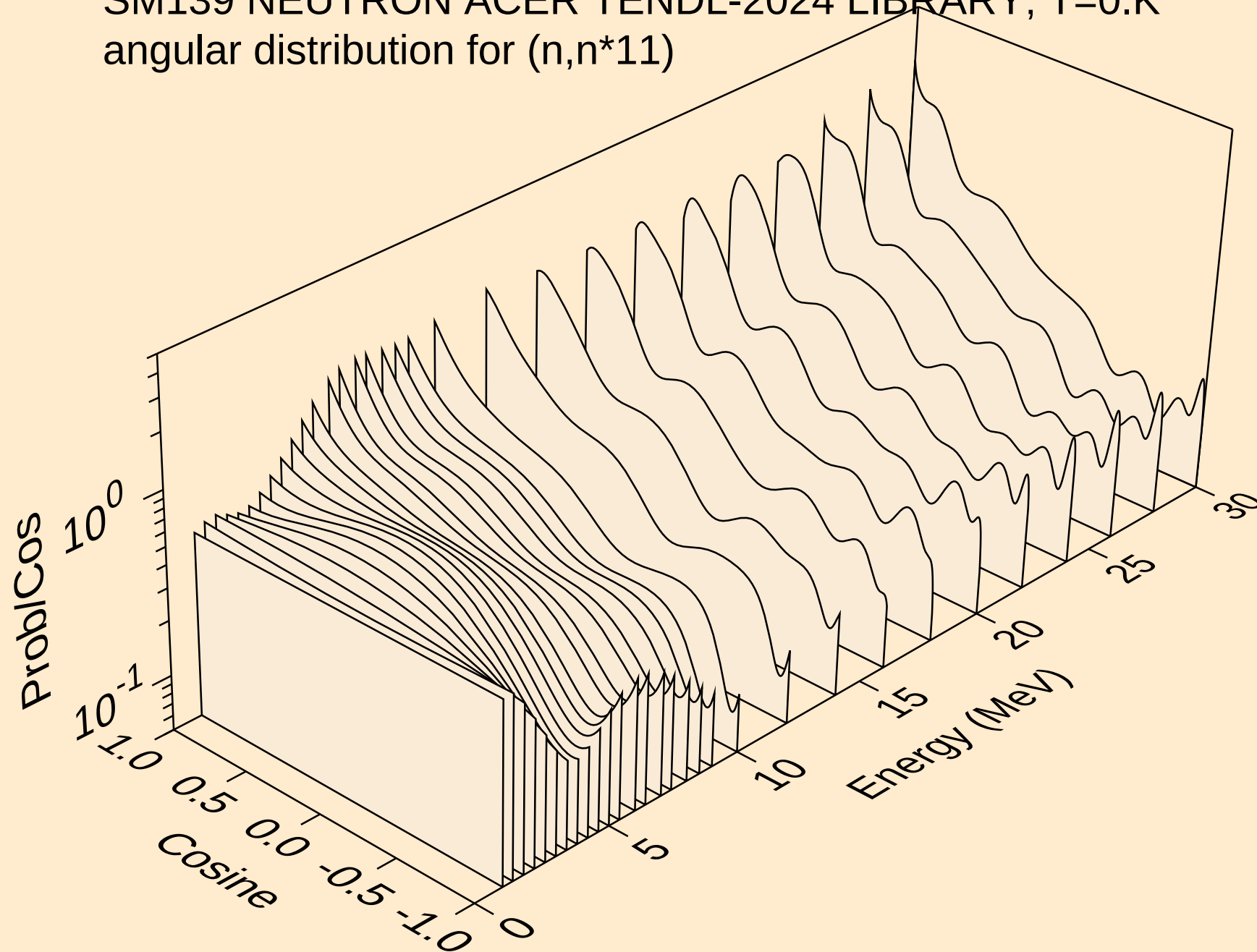
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angular distribution for (n,n*9)



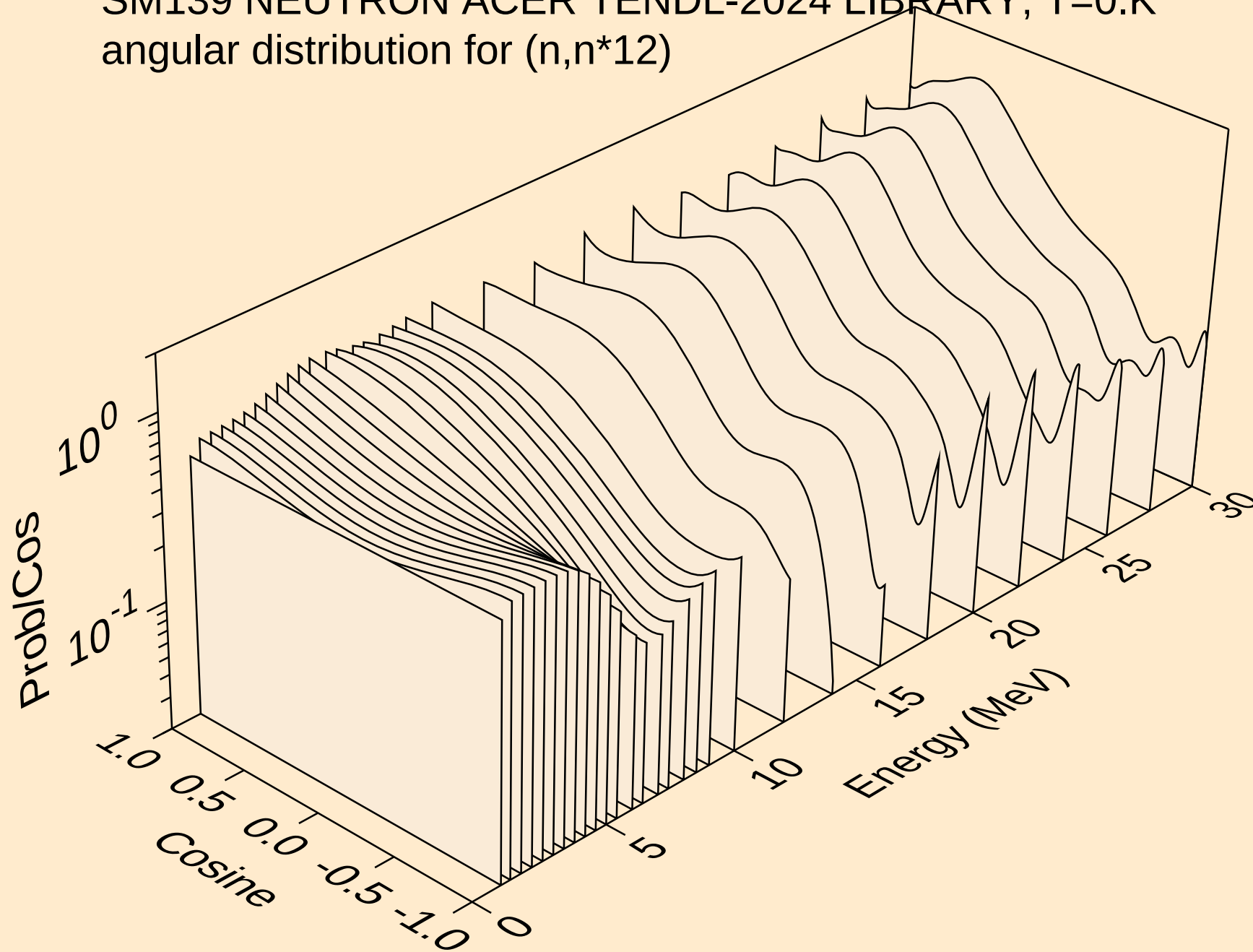
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angular distribution for (n,n*10)



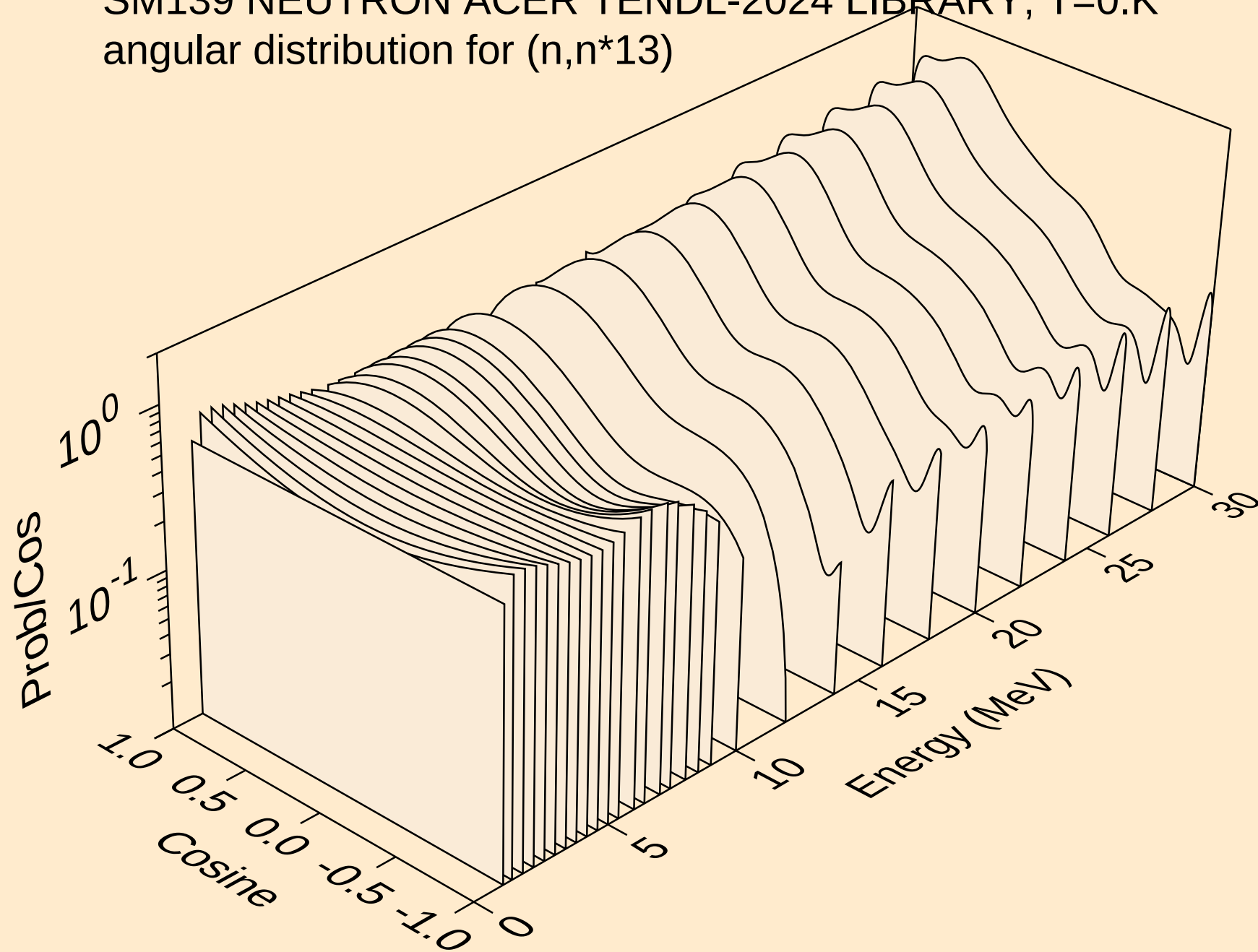
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angular distribution for (n,n*11)



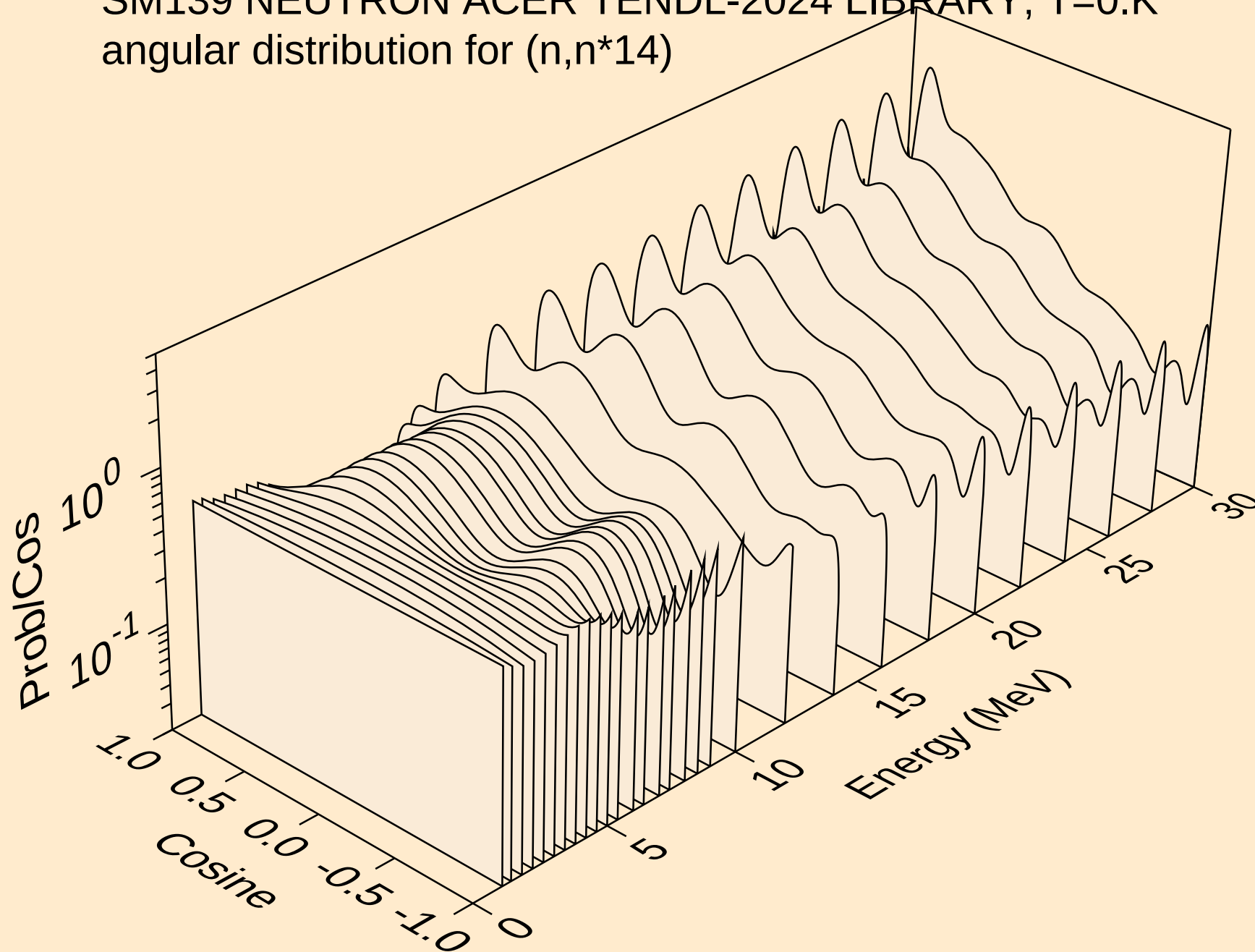
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angular distribution for (n,n*12)



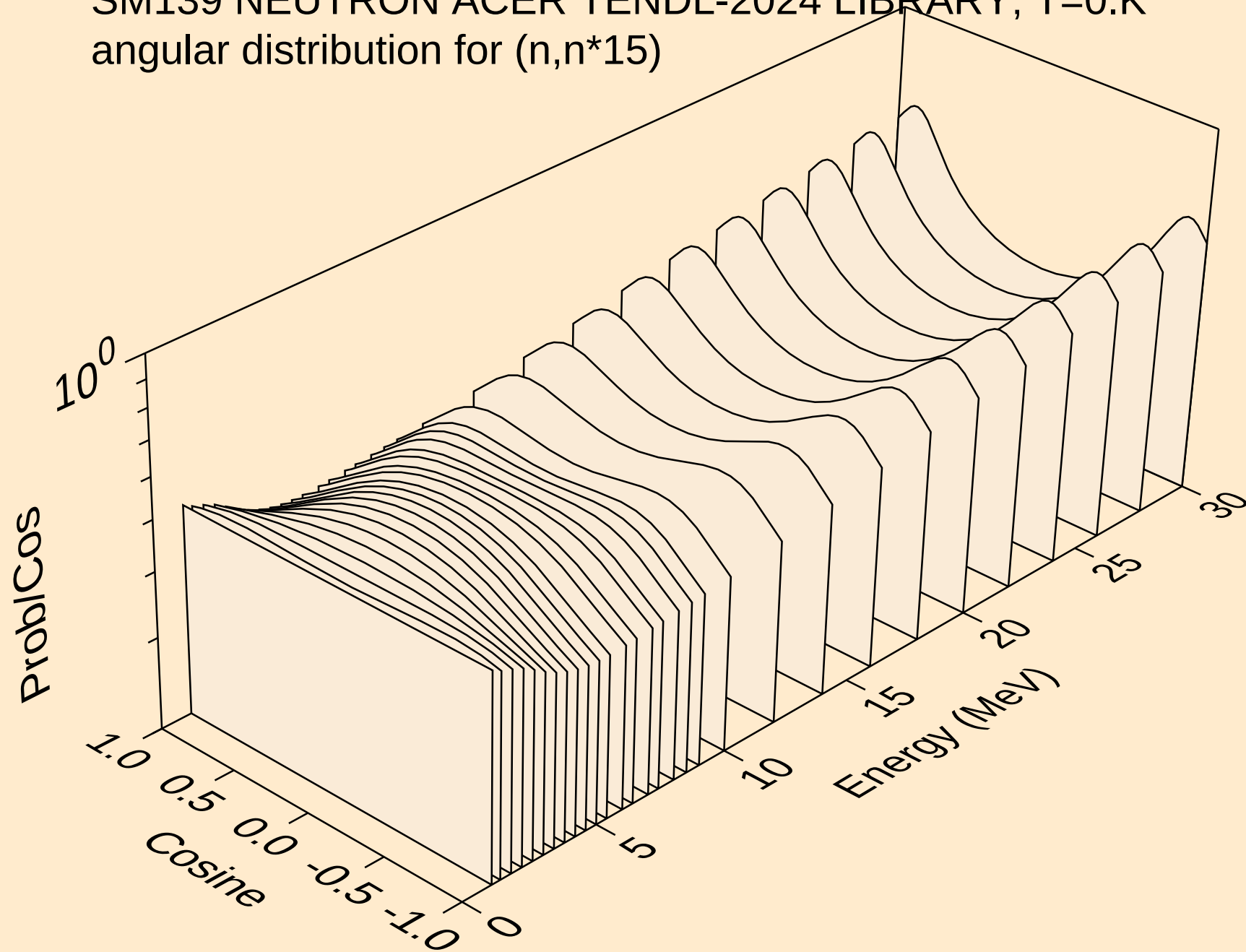
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angular distribution for (n,n*13)



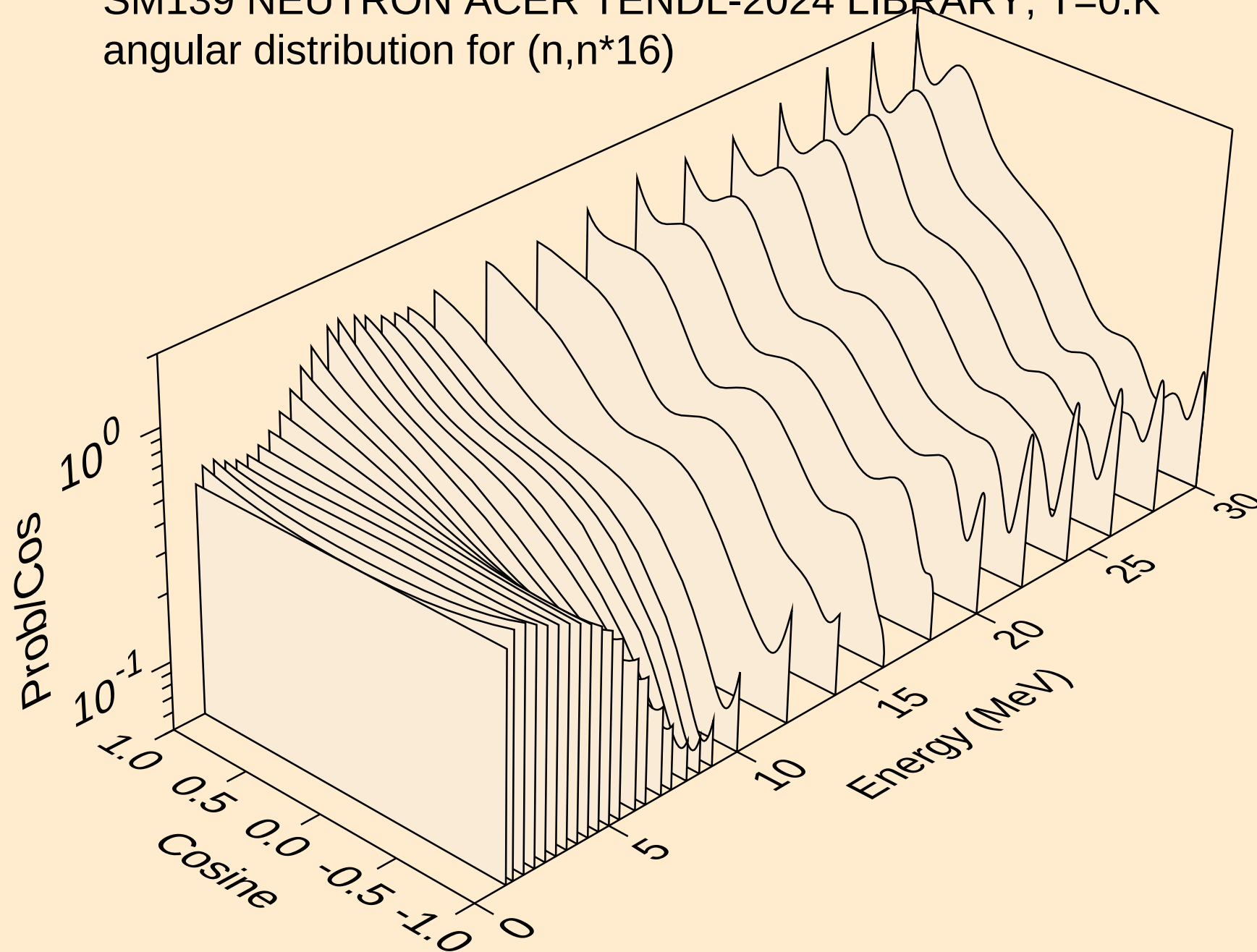
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angular distribution for (n,n*14)



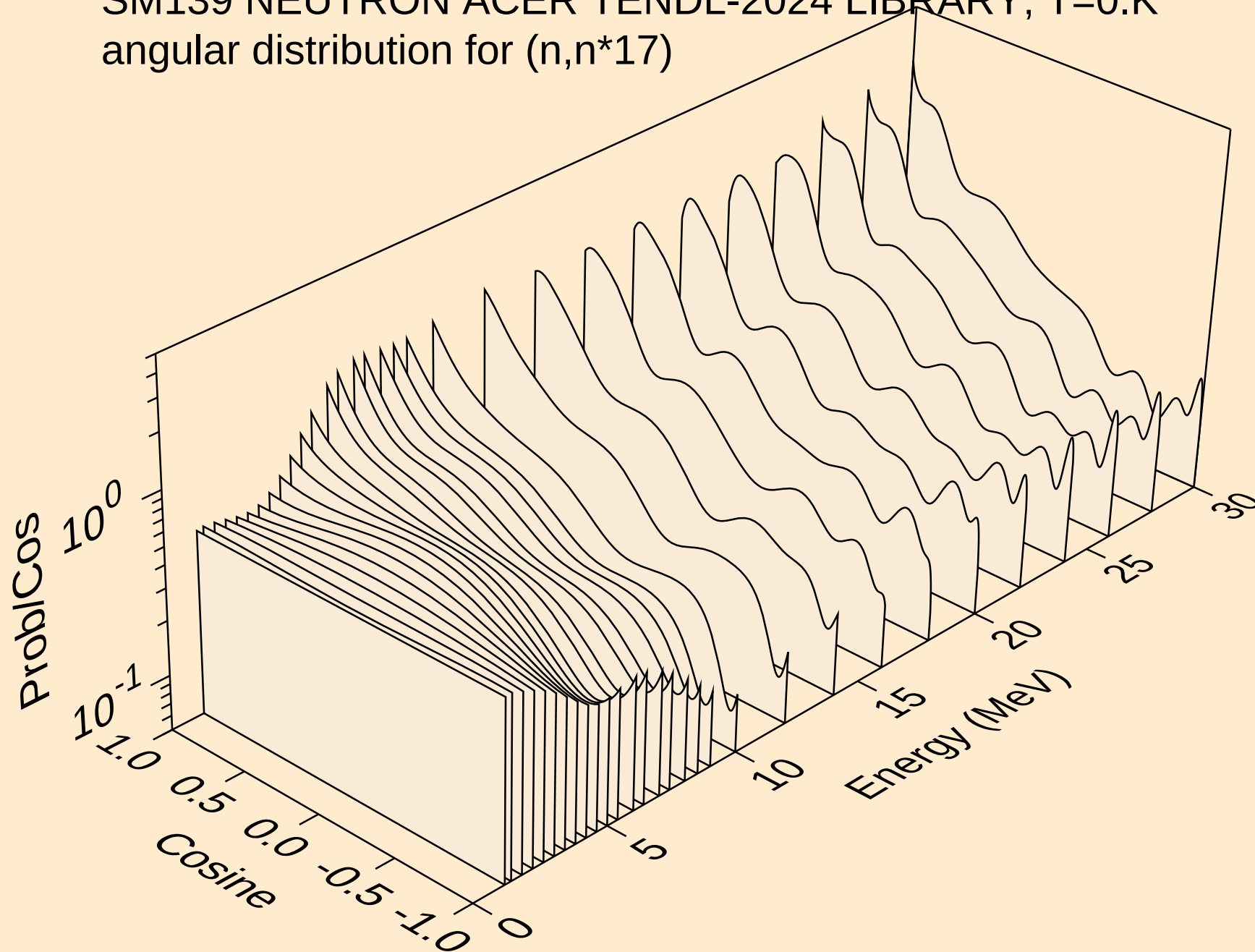
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angular distribution for (n,n*15)



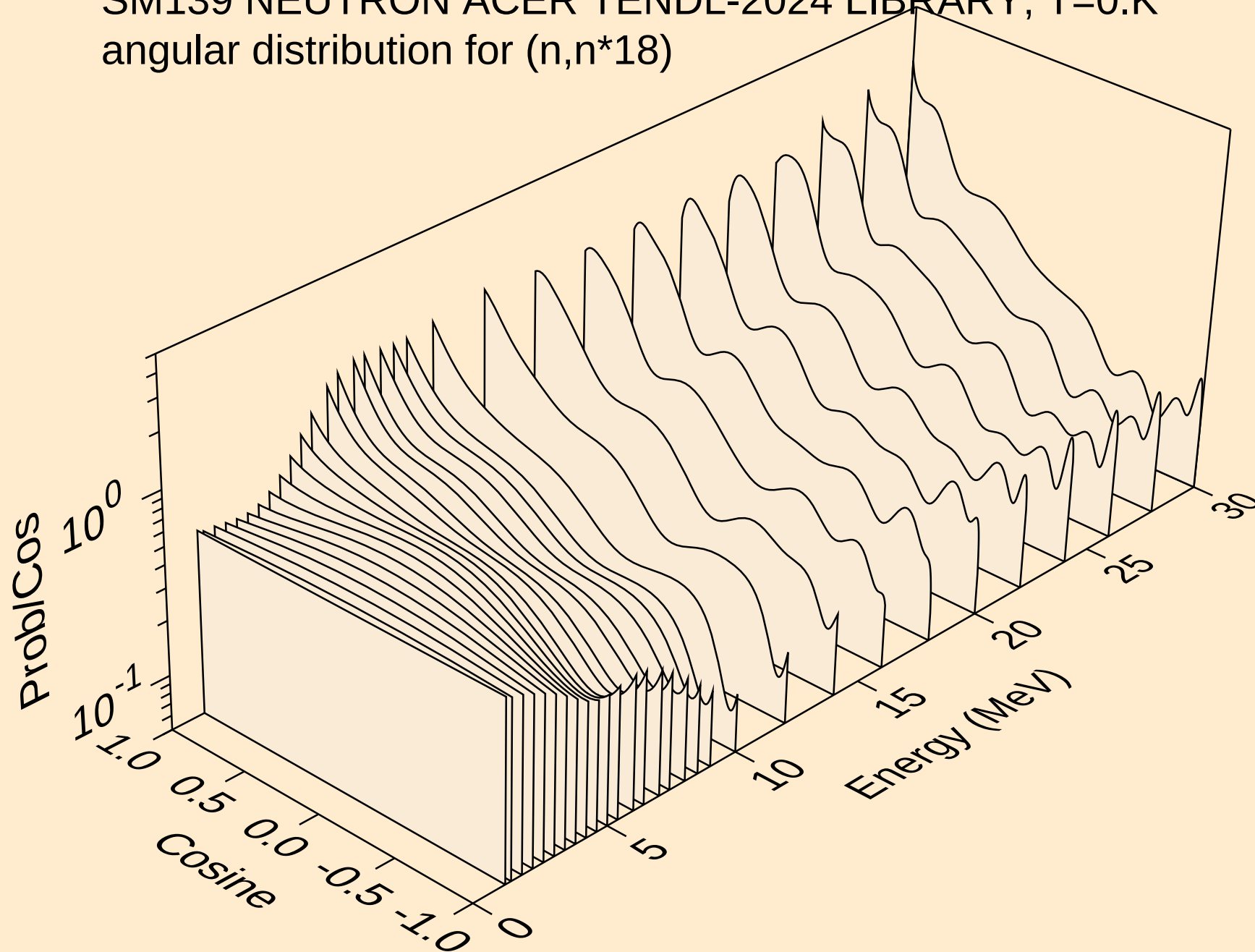
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angular distribution for (n,n*16)



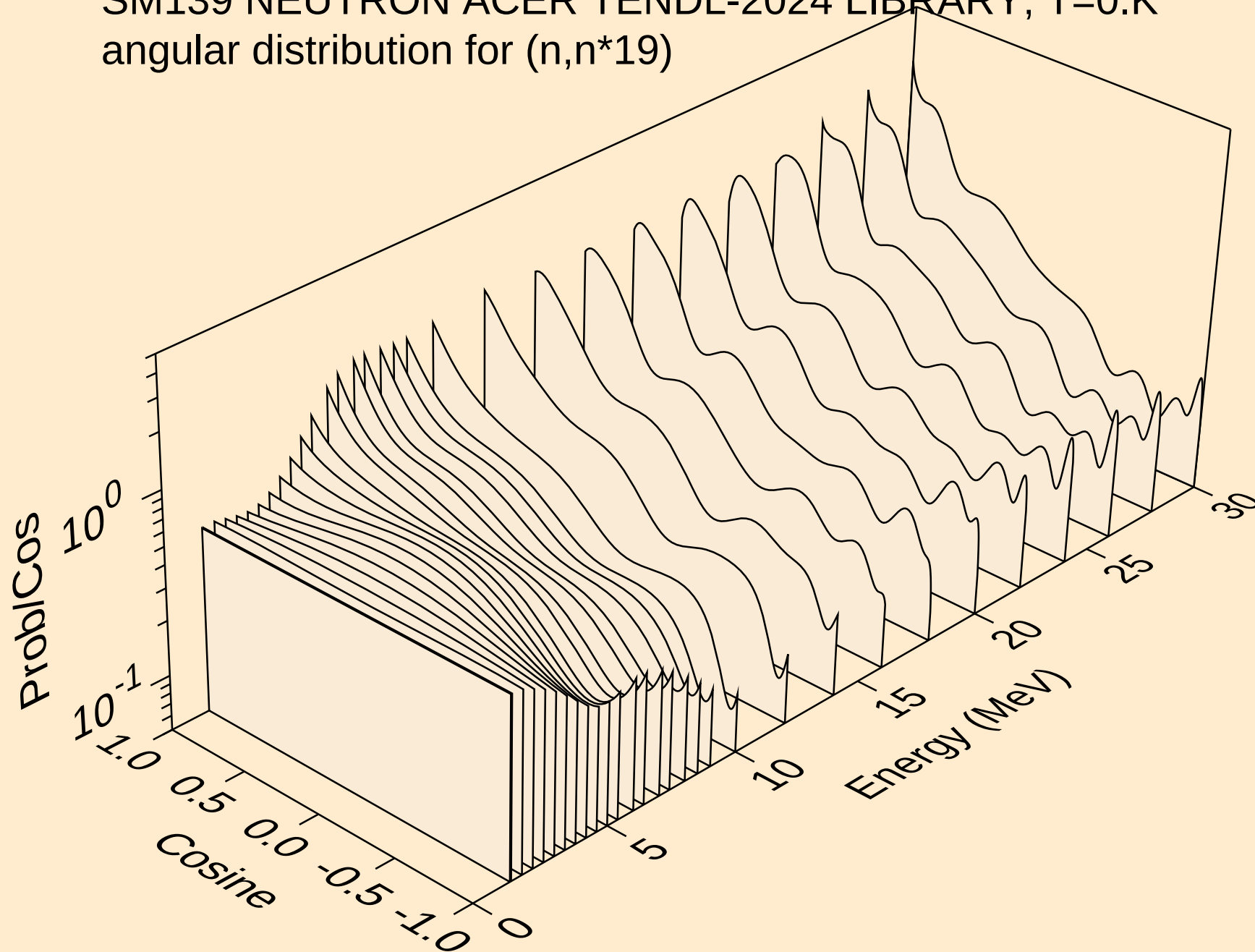
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angular distribution for (n,n*17)



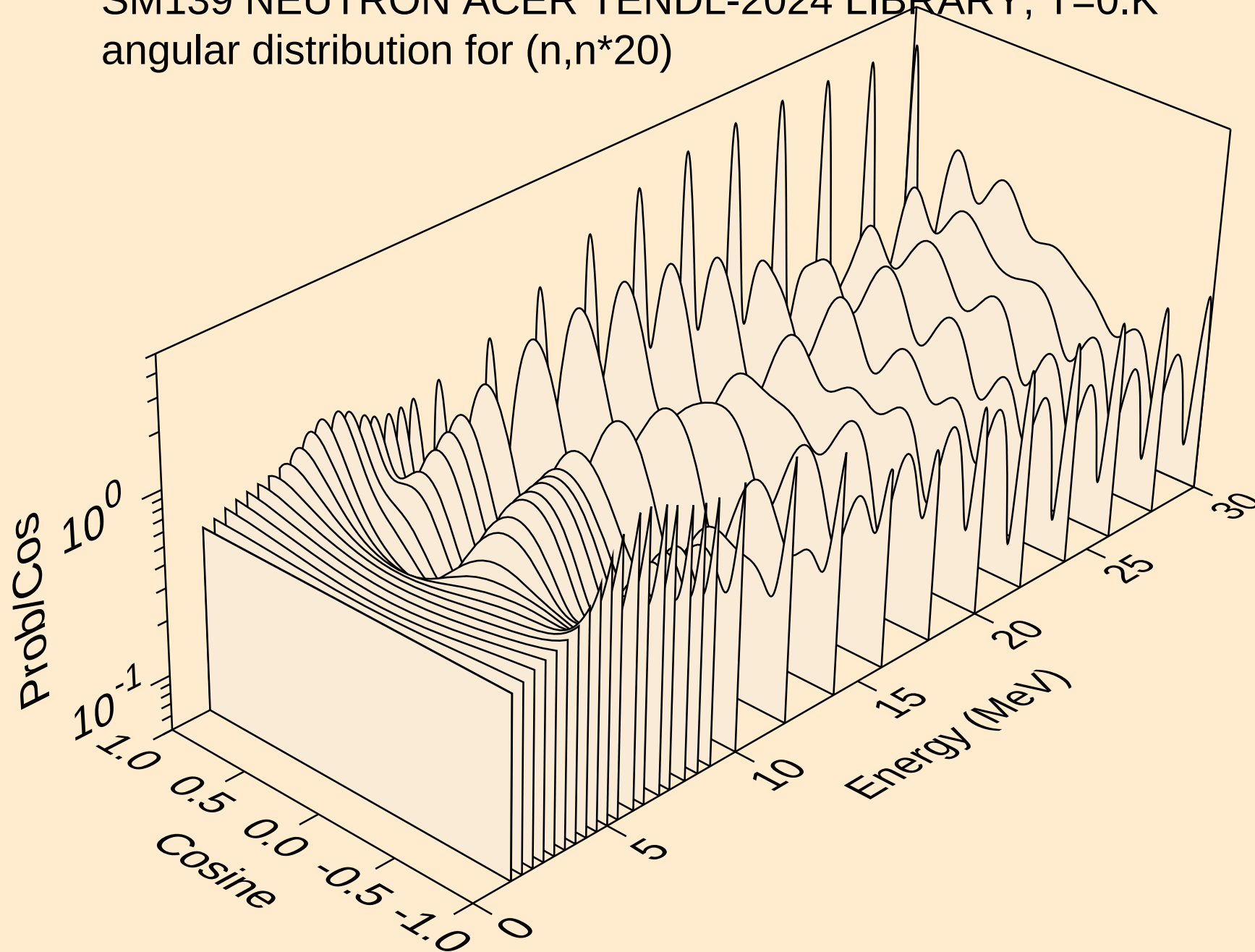
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angular distribution for (n,n*18)



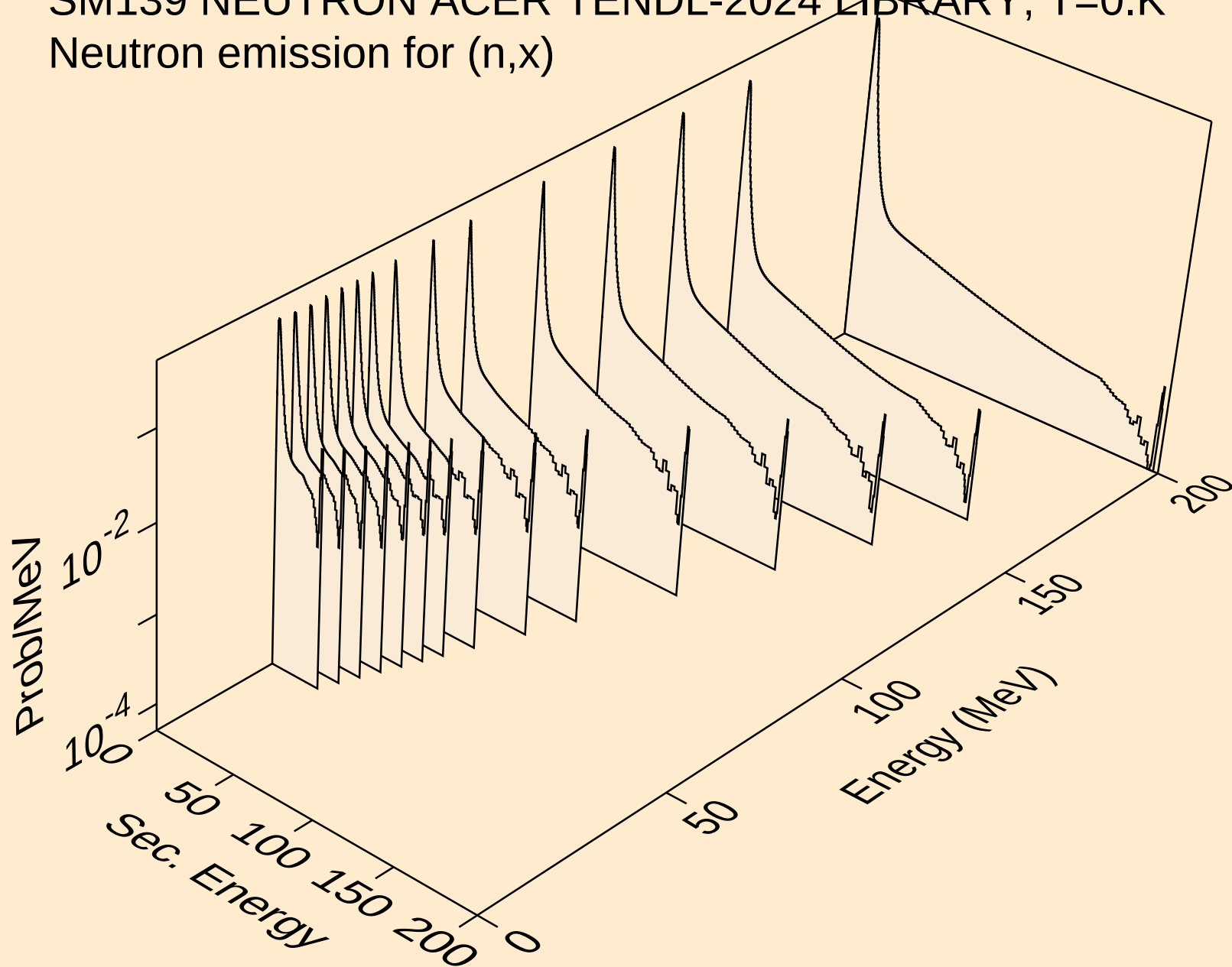
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angular distribution for (n,n*19)



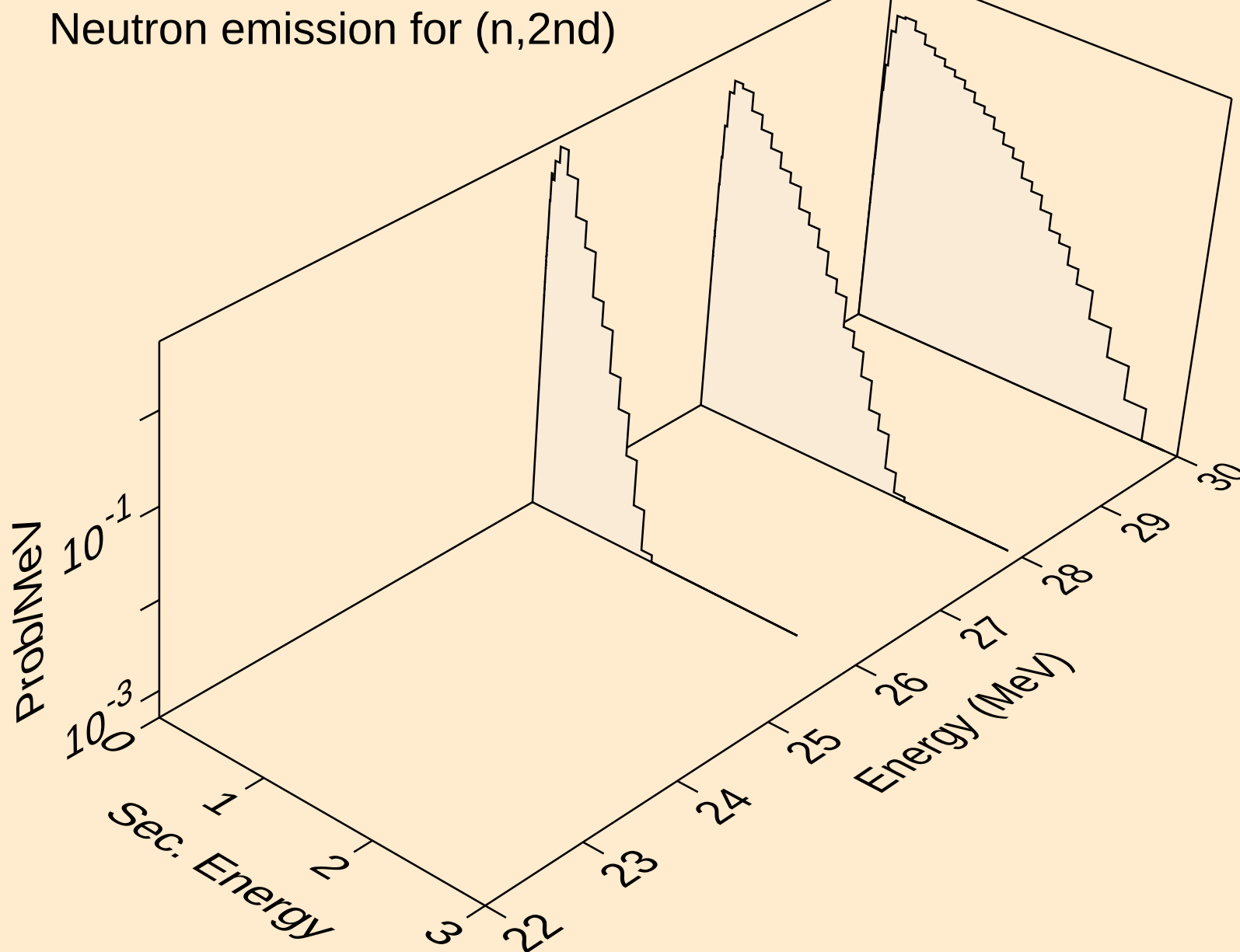
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
angular distribution for (n,n*20)



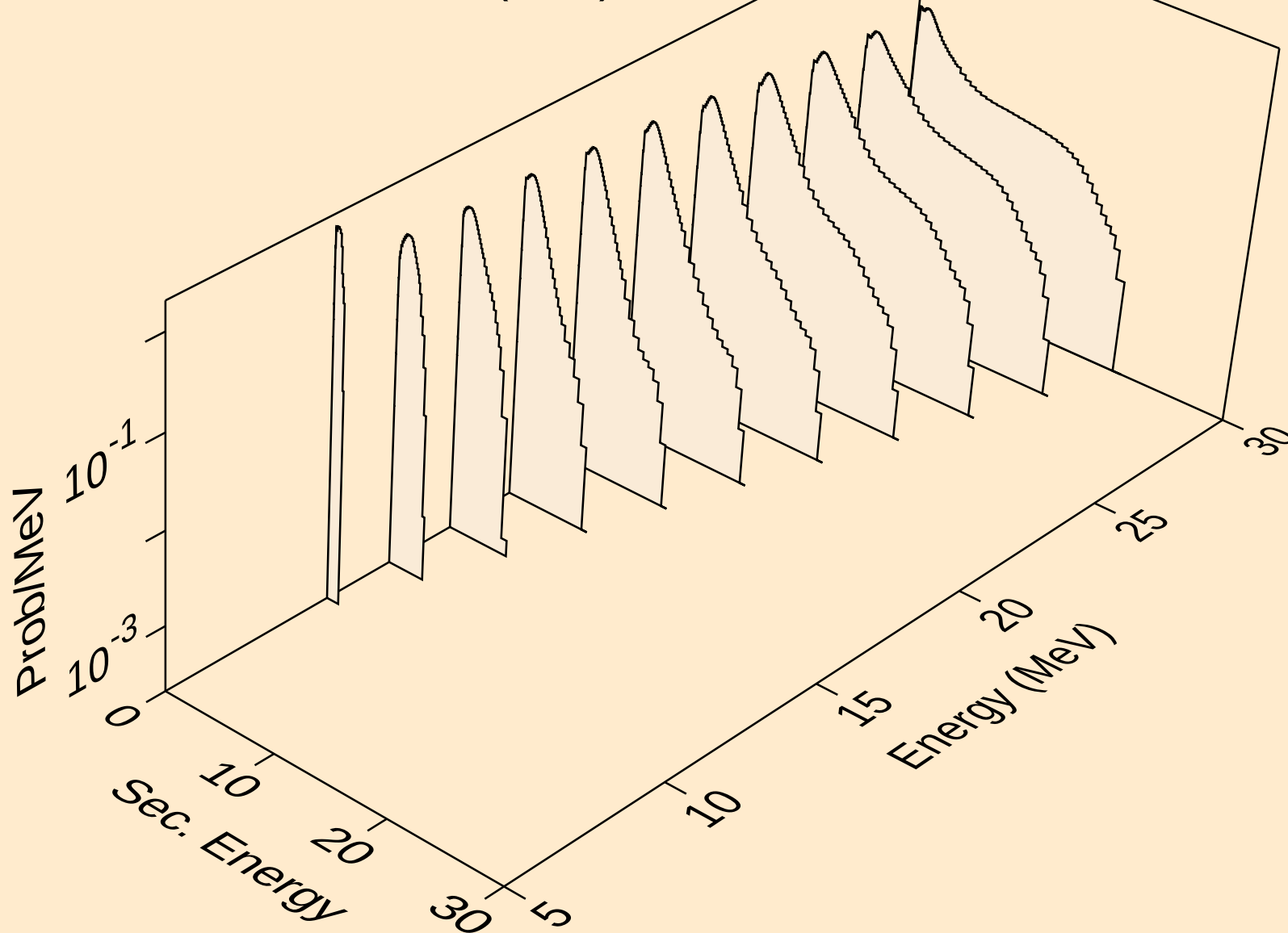
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Neutron emission for (n,x)



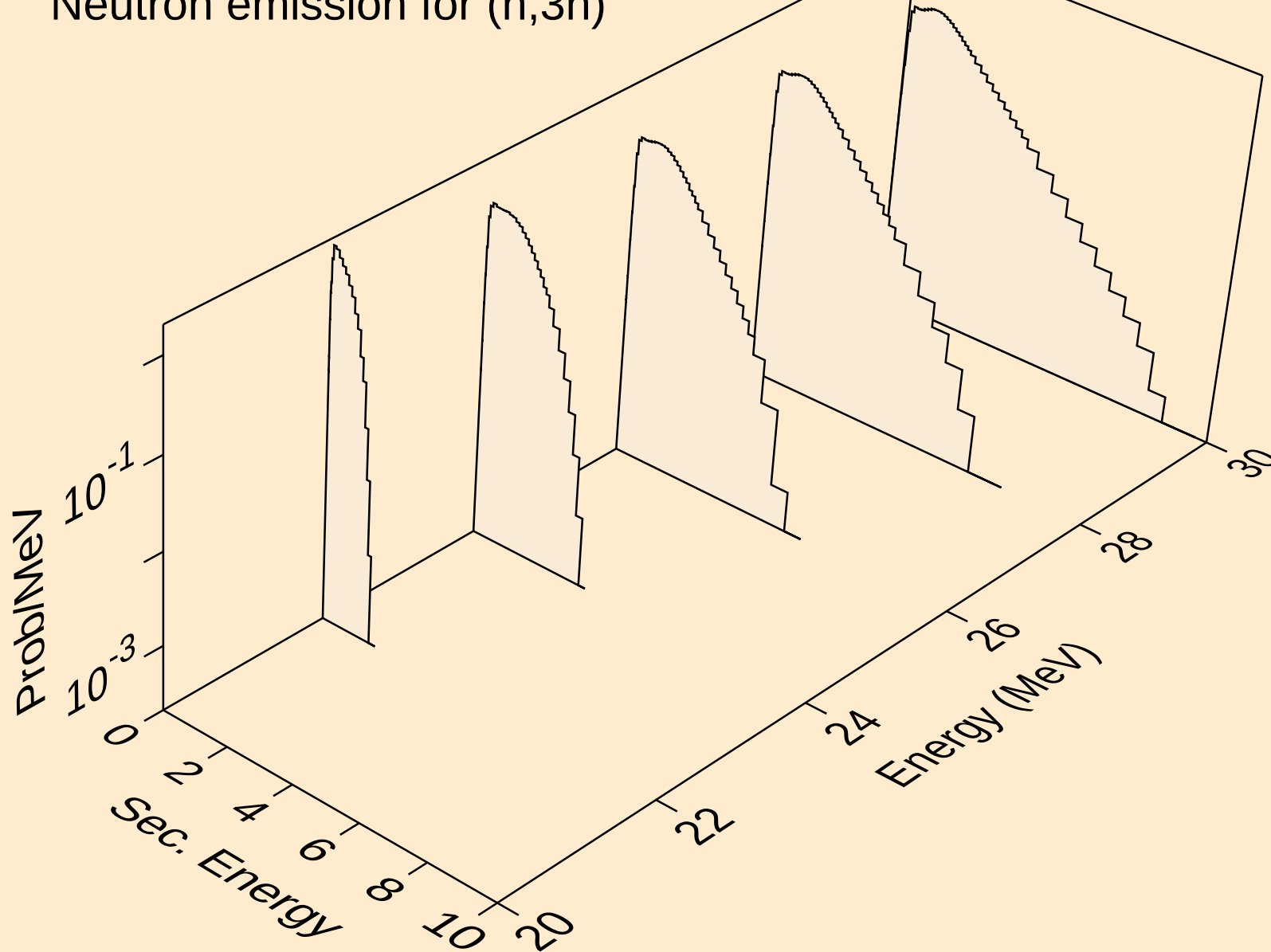
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Neutron emission for (n,2nd)



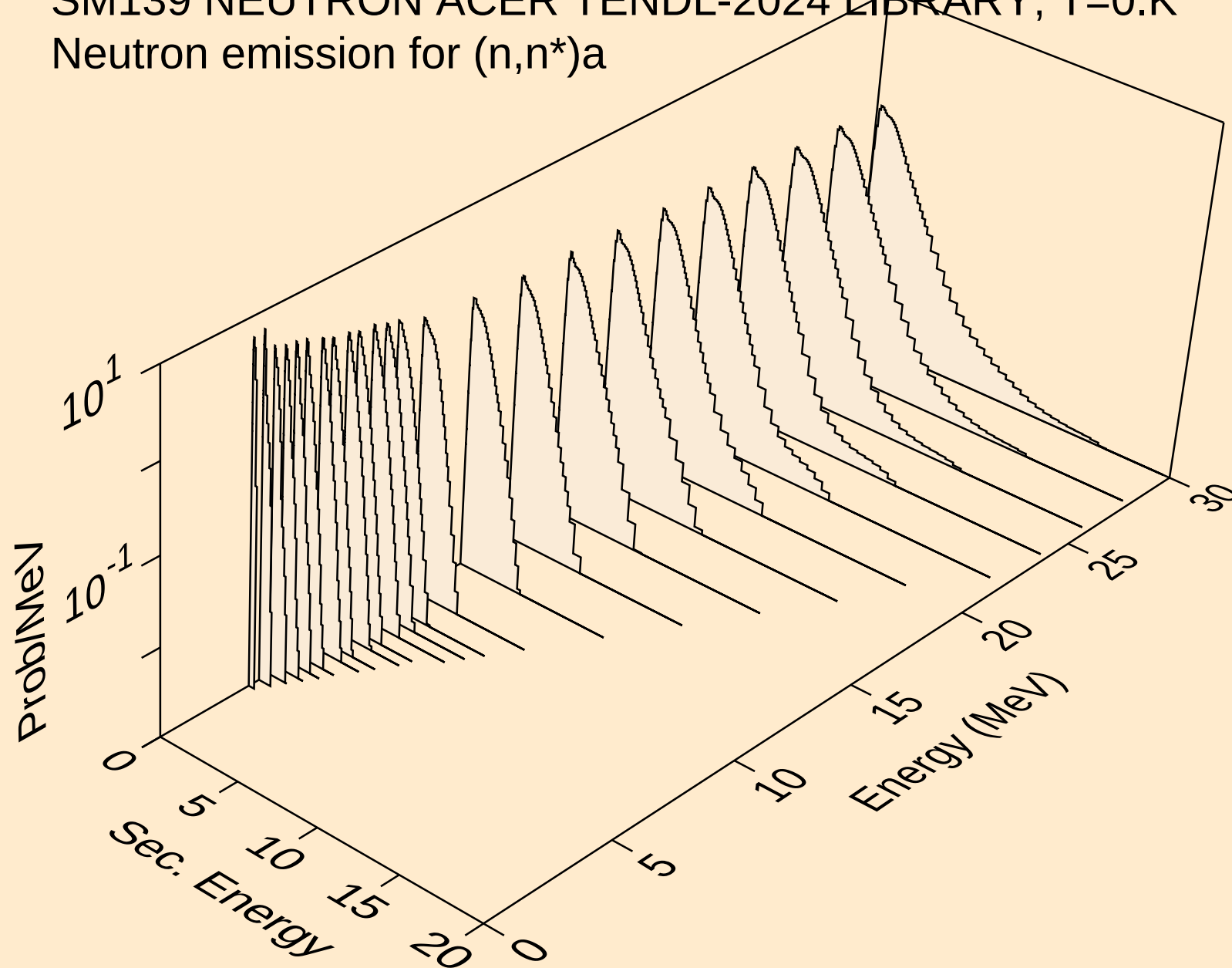
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Neutron emission for (n,2n)



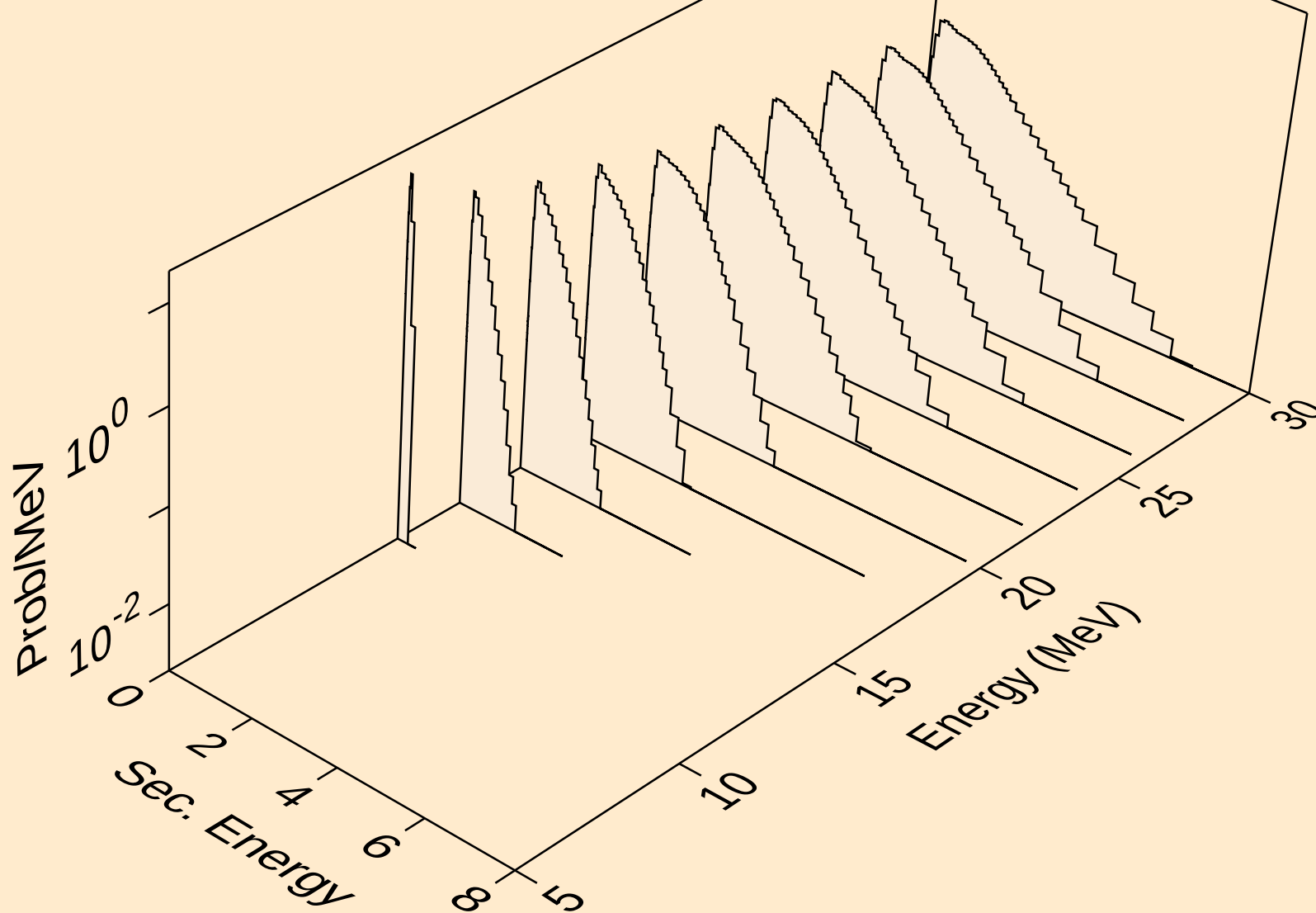
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Neutron emission for (n,3n)



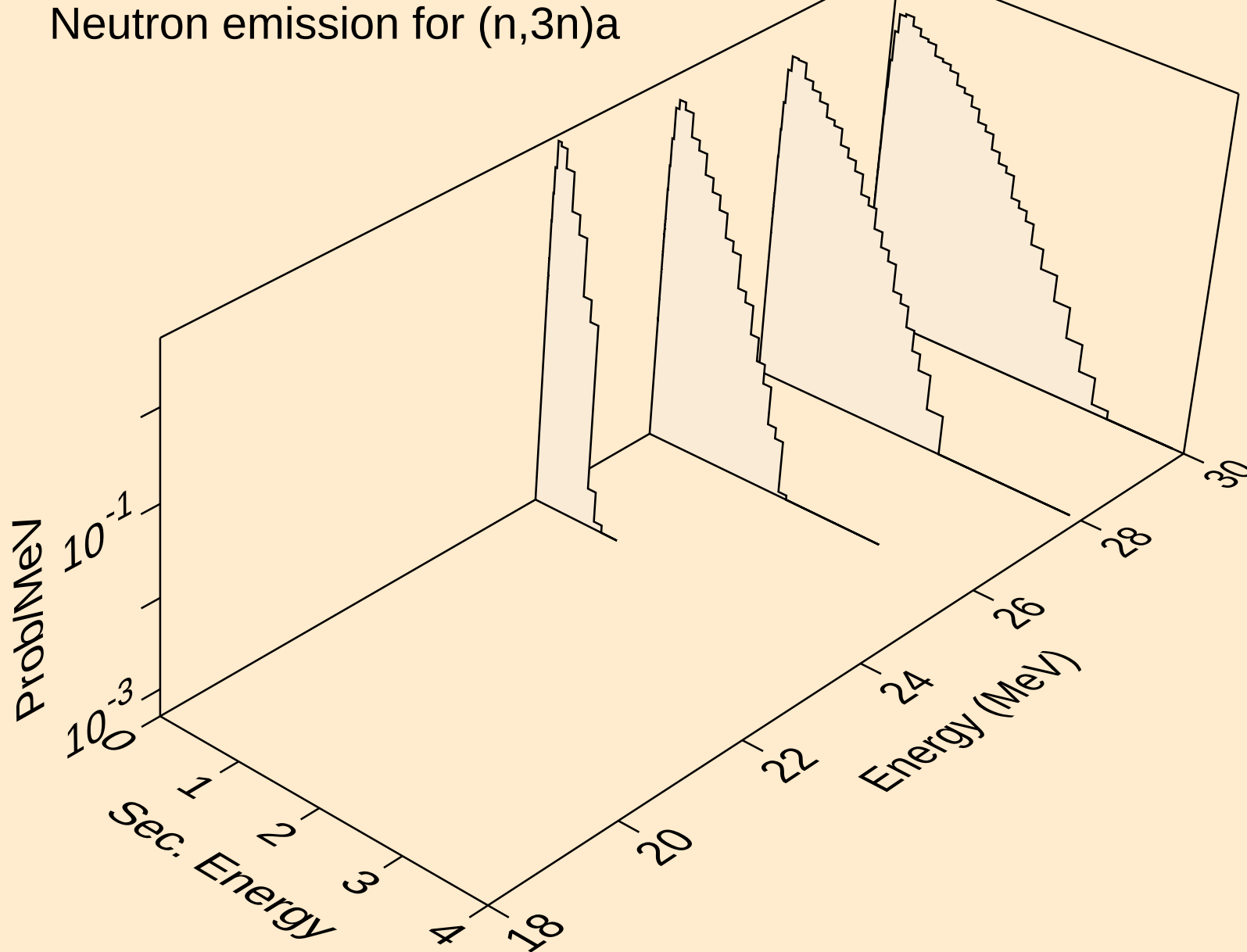
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Neutron emission for (n,n*)a



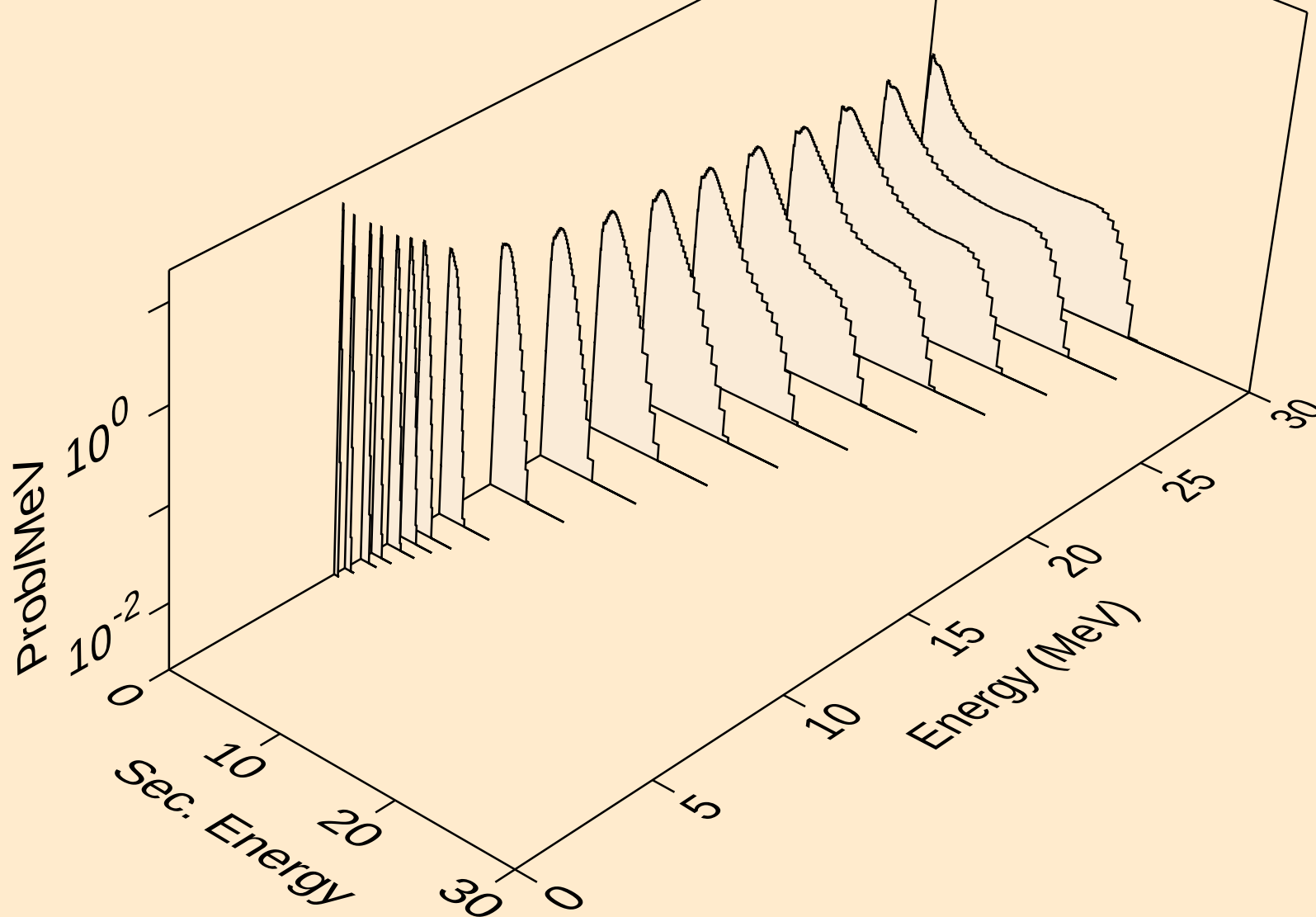
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Neutron emission for (n,2n)a



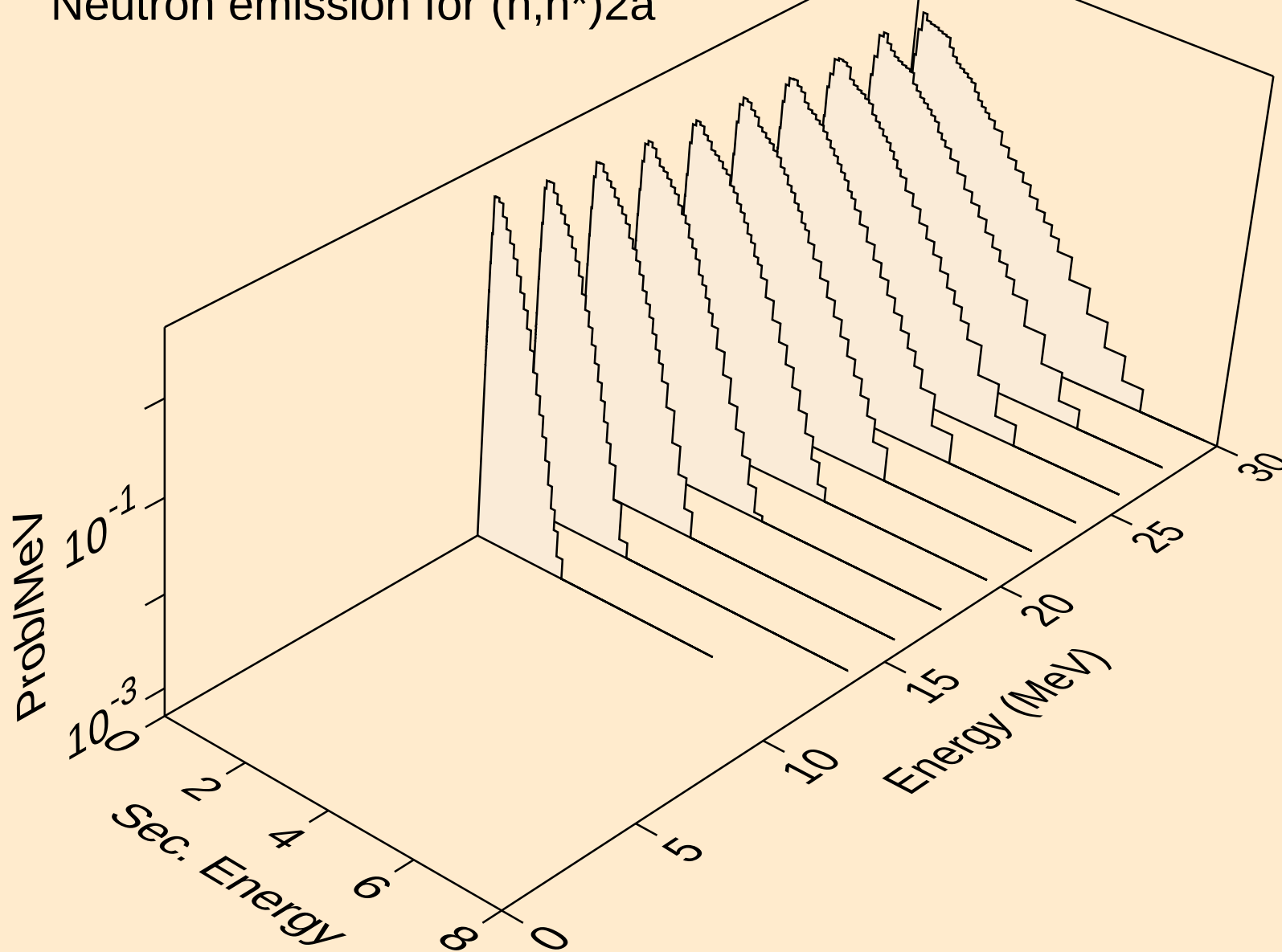
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Neutron emission for (n,3n)a



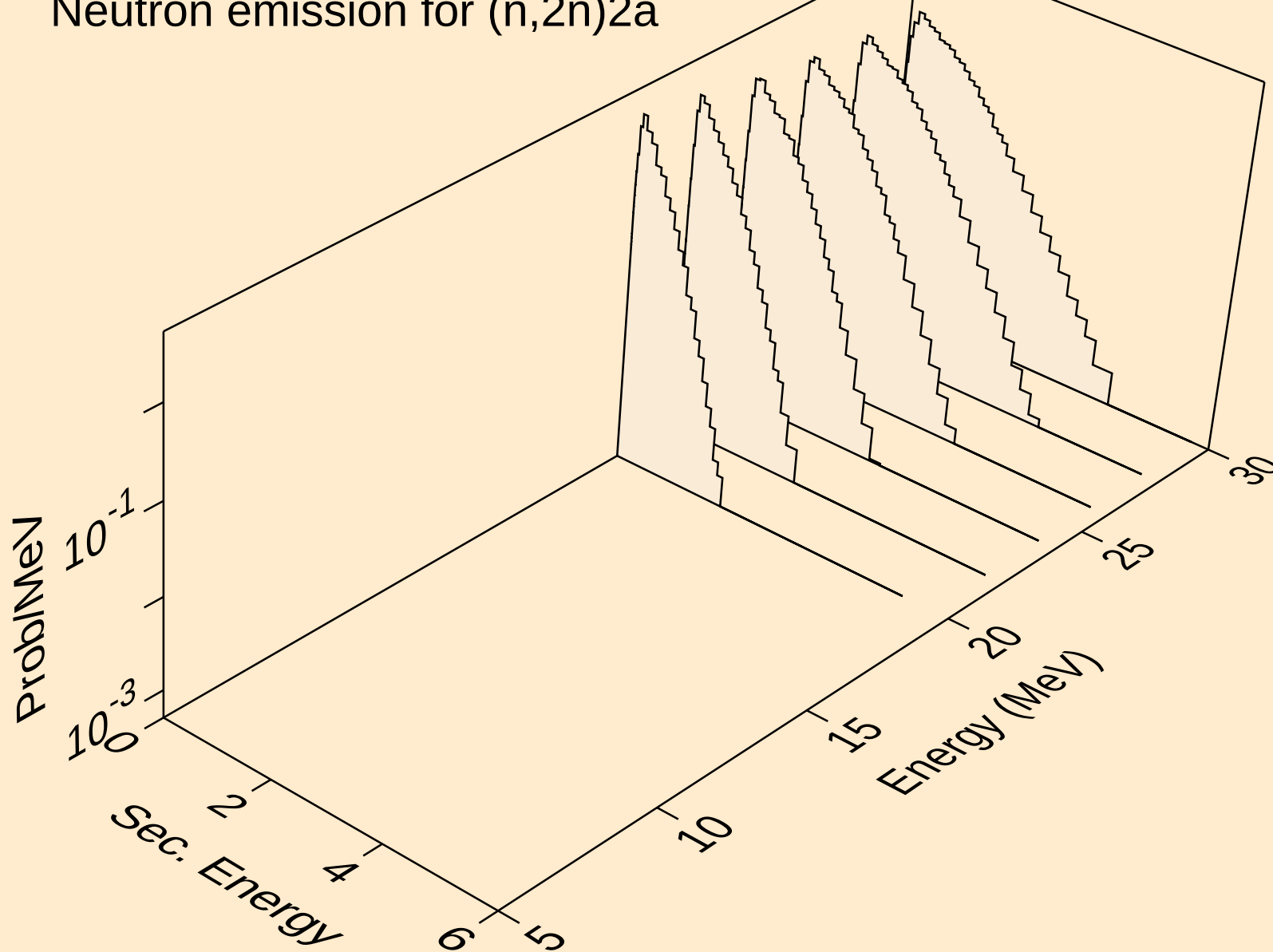
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Neutron emission for (n,n*)p



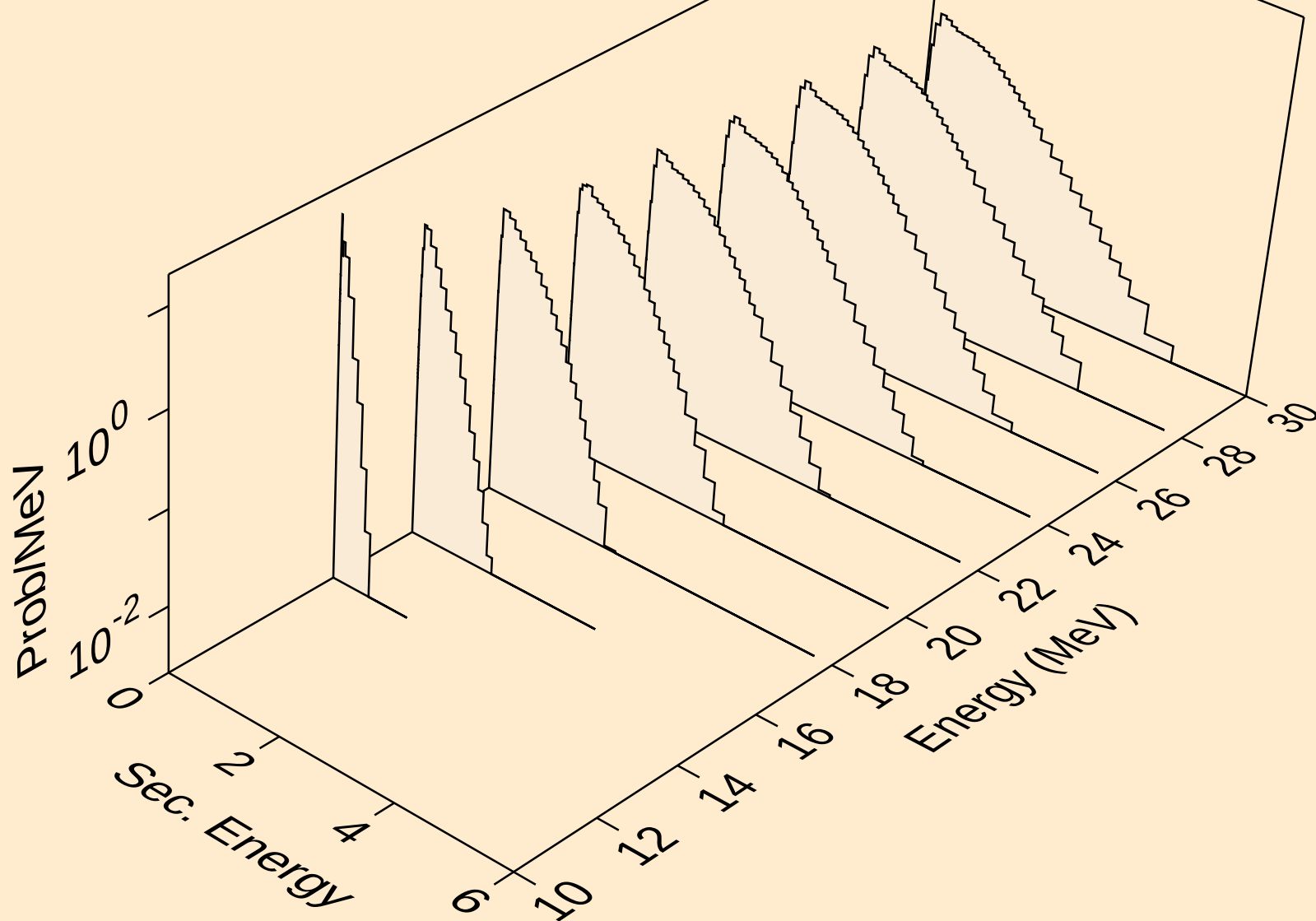
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Neutron emission for (n,n*)2a



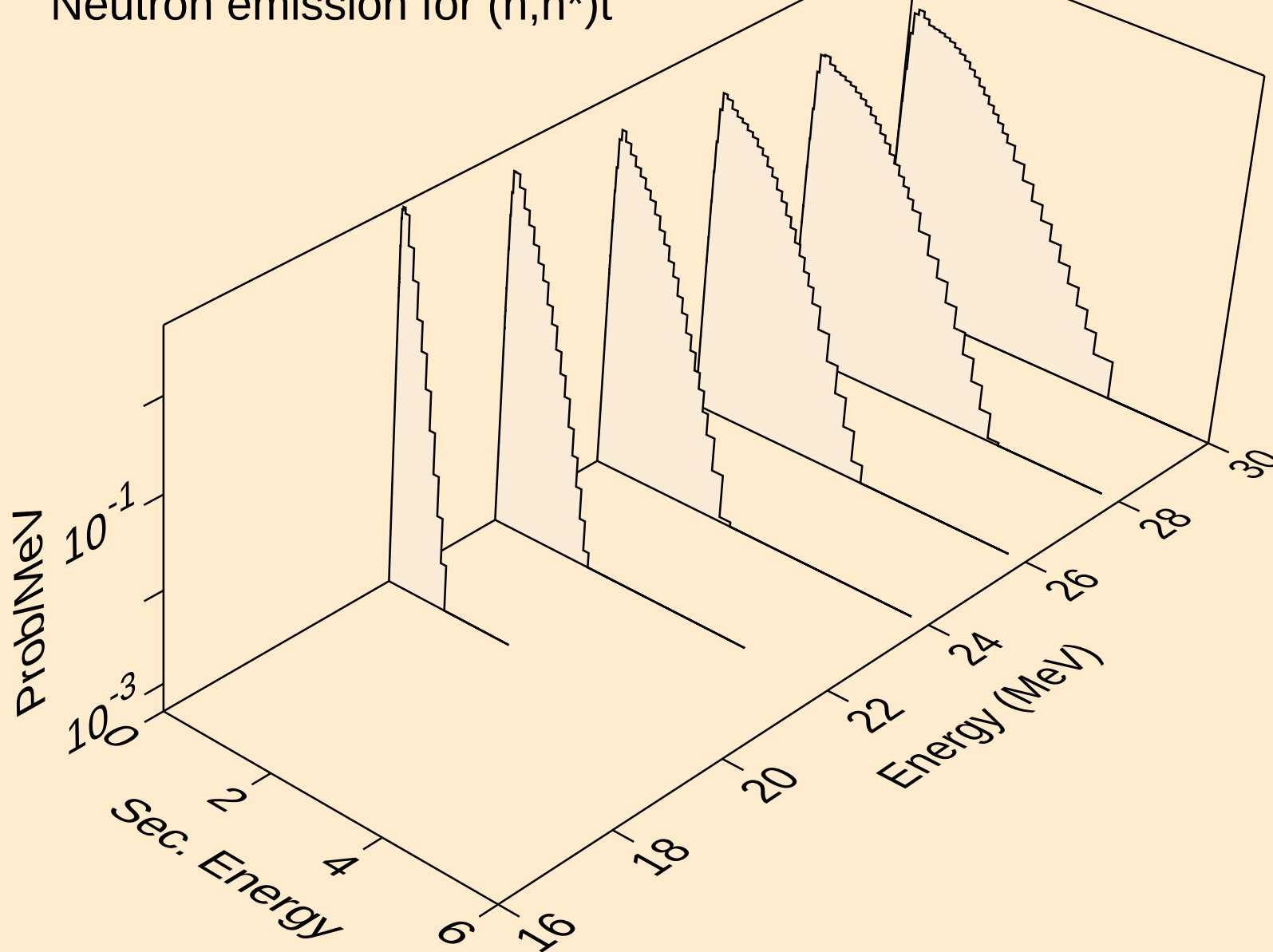
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Neutron emission for (n,2n)2a



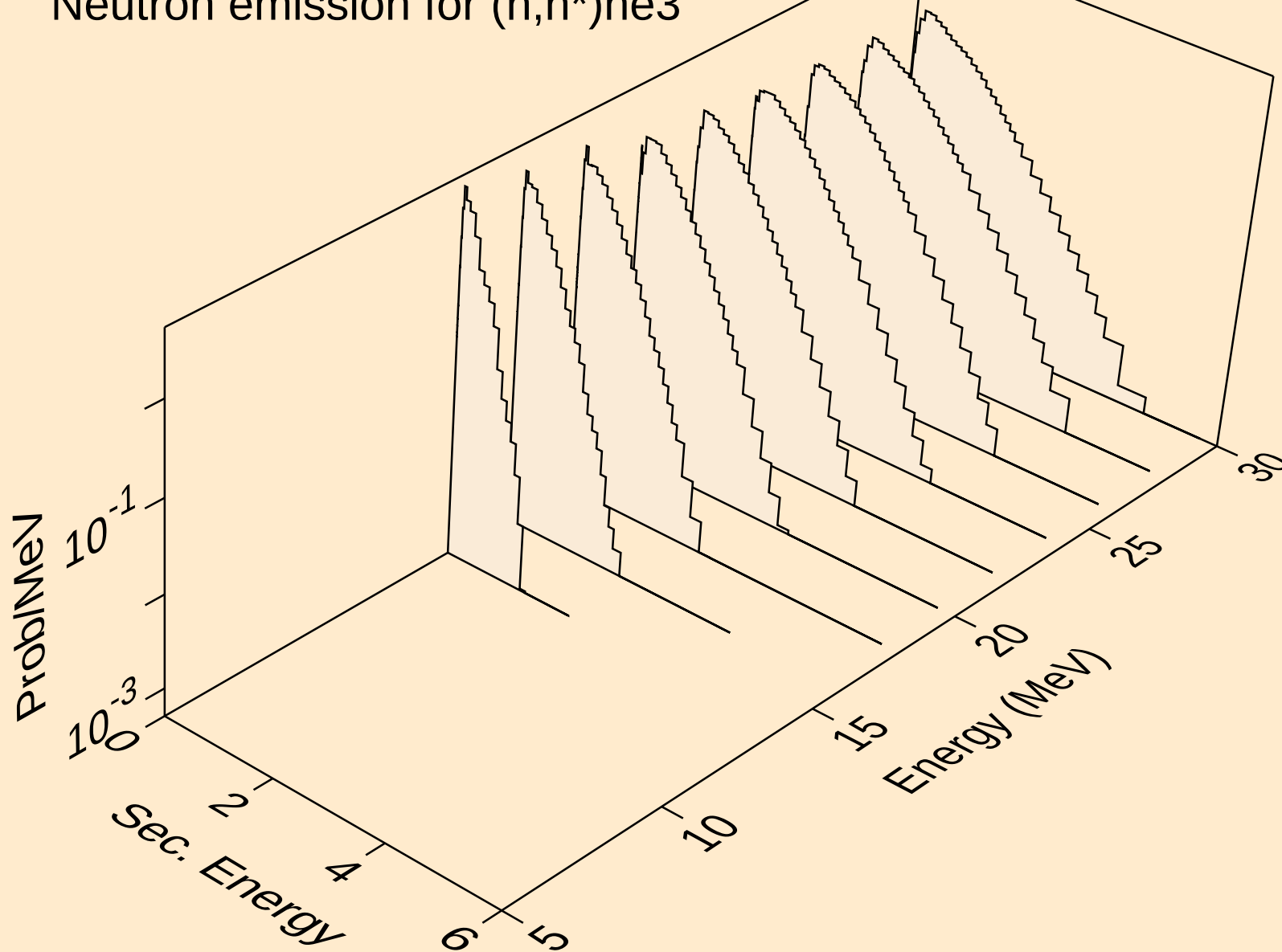
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Neutron emission for (n,n*)d



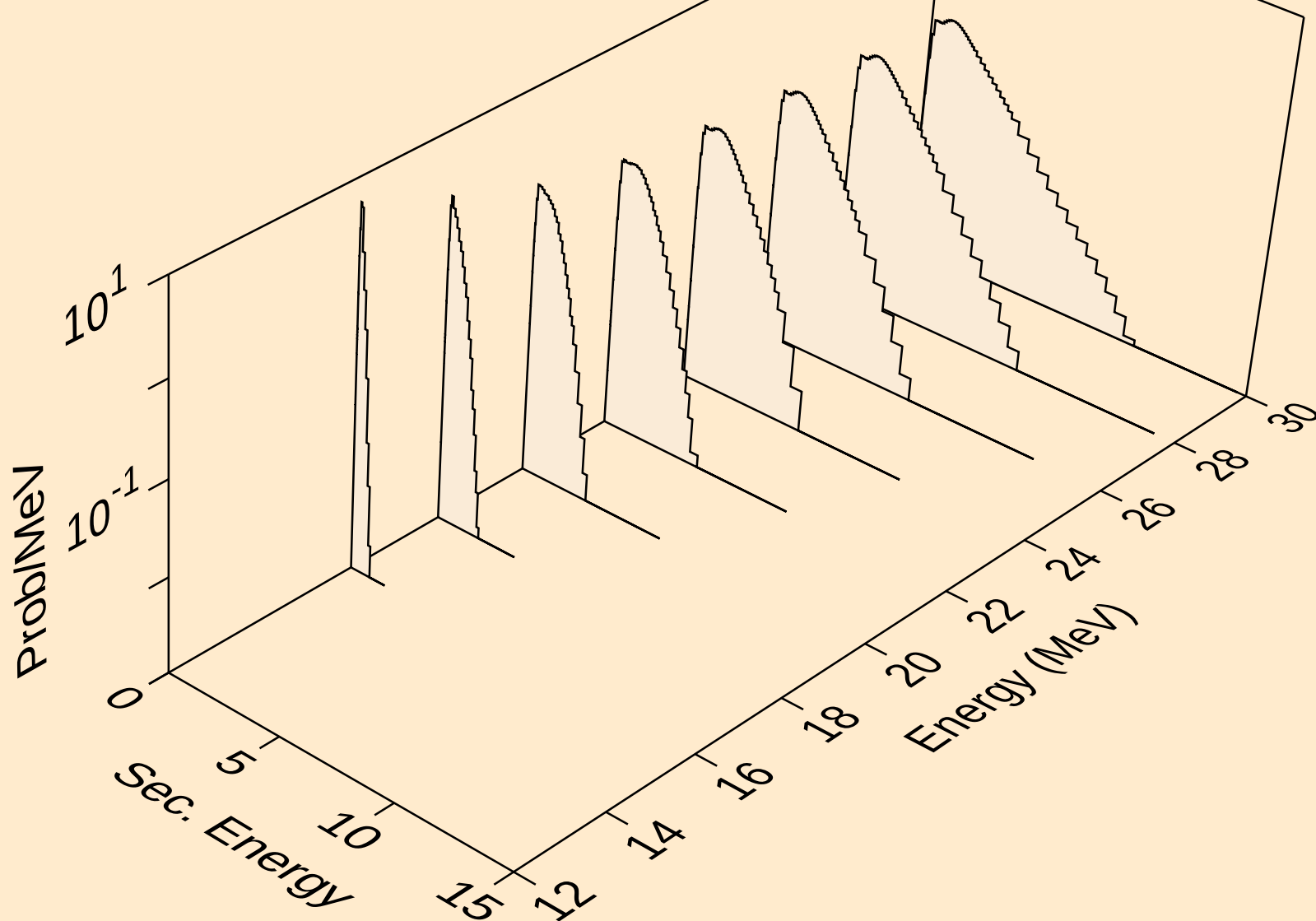
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Neutron emission for (n,n*)t



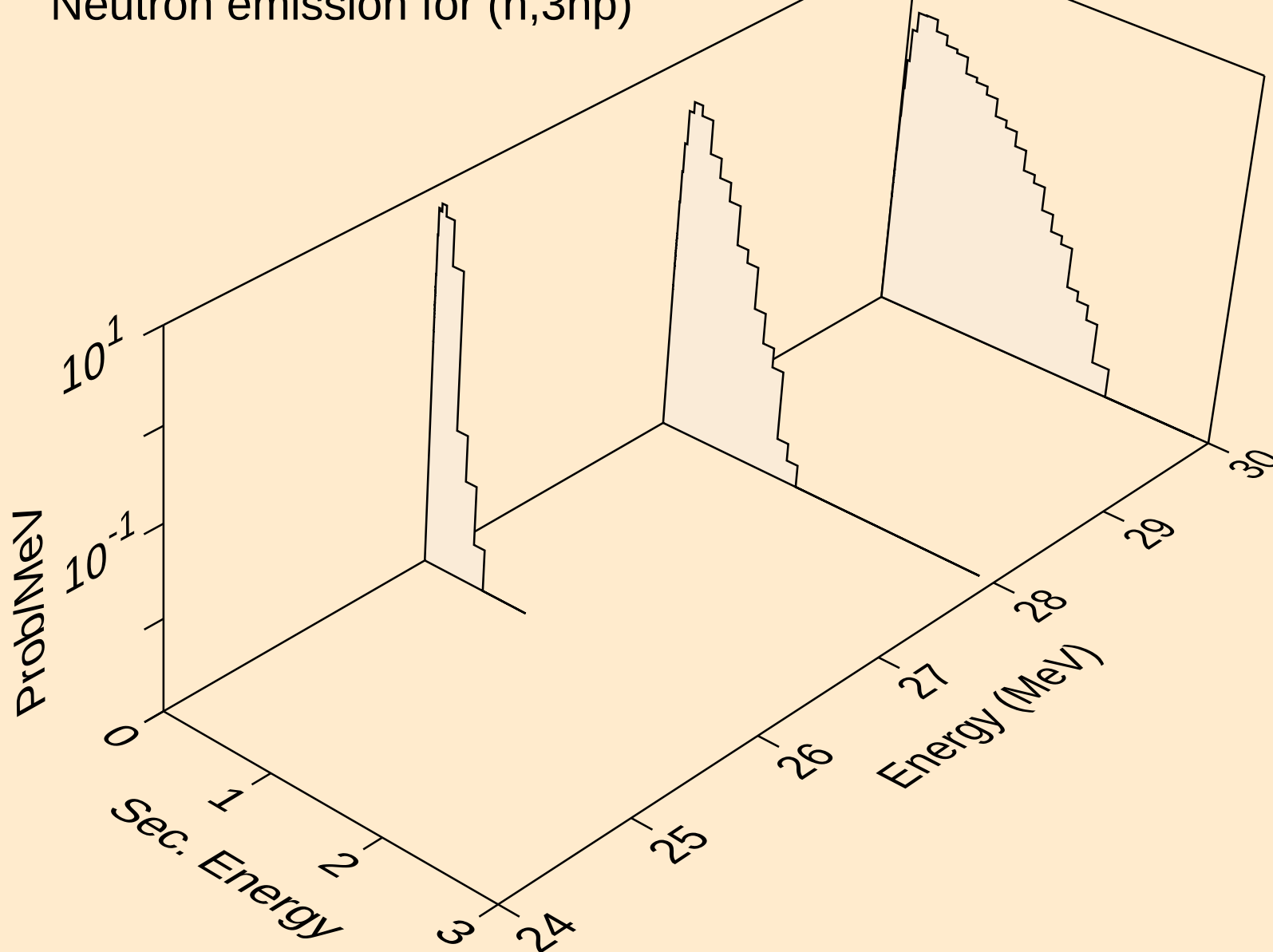
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Neutron emission for (n,n*)he3



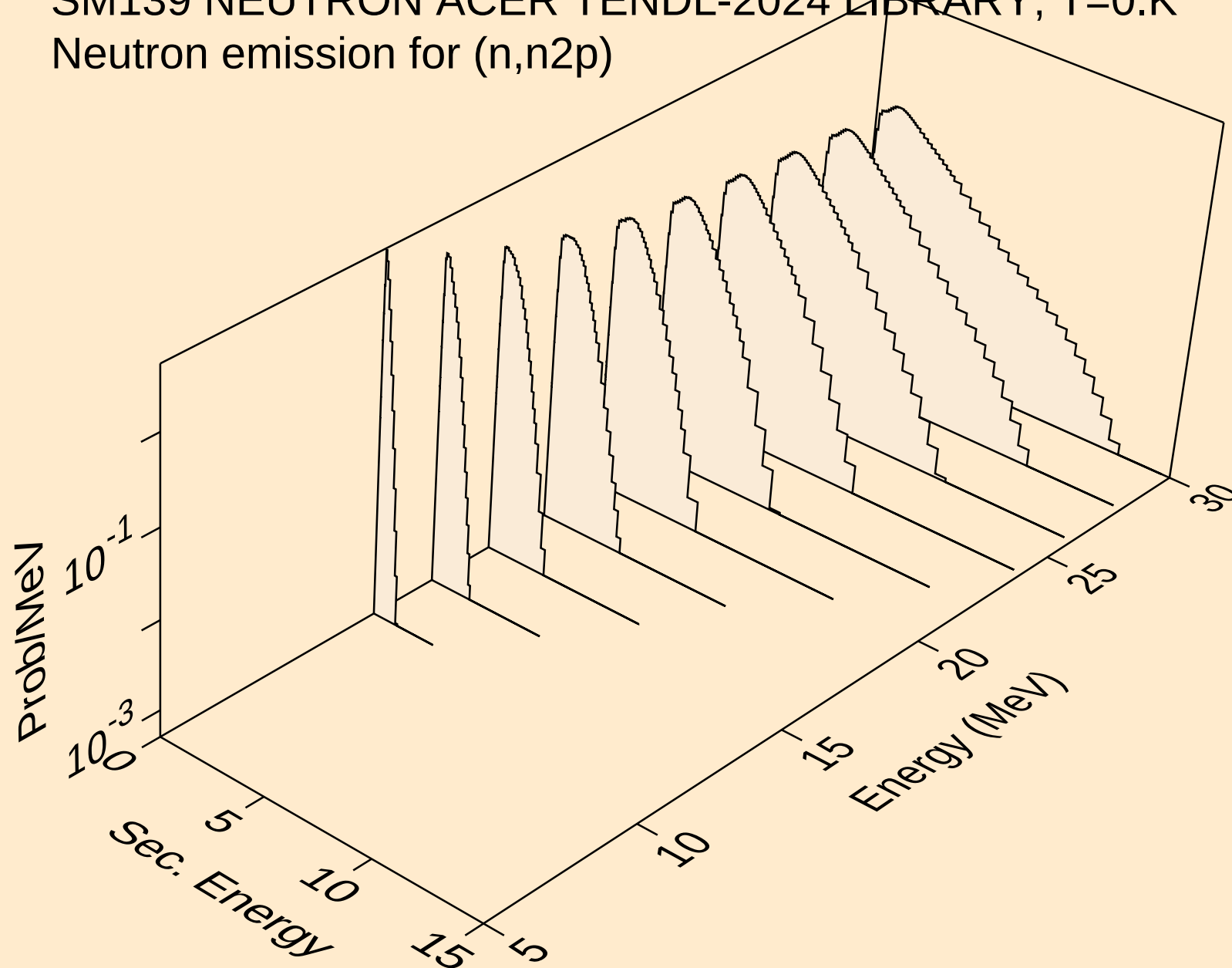
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Neutron emission for (n,2np)



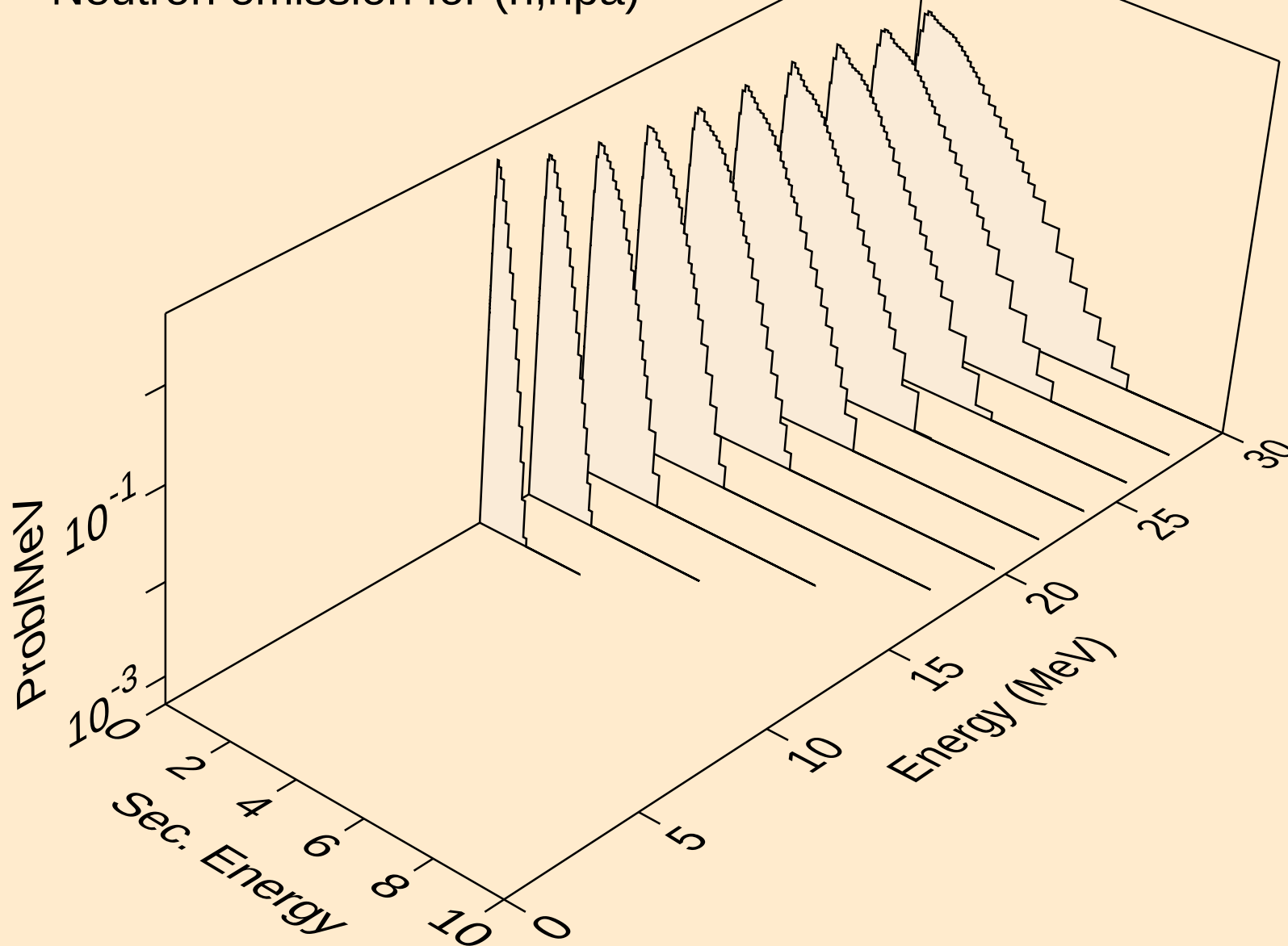
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Neutron emission for (n,3np)



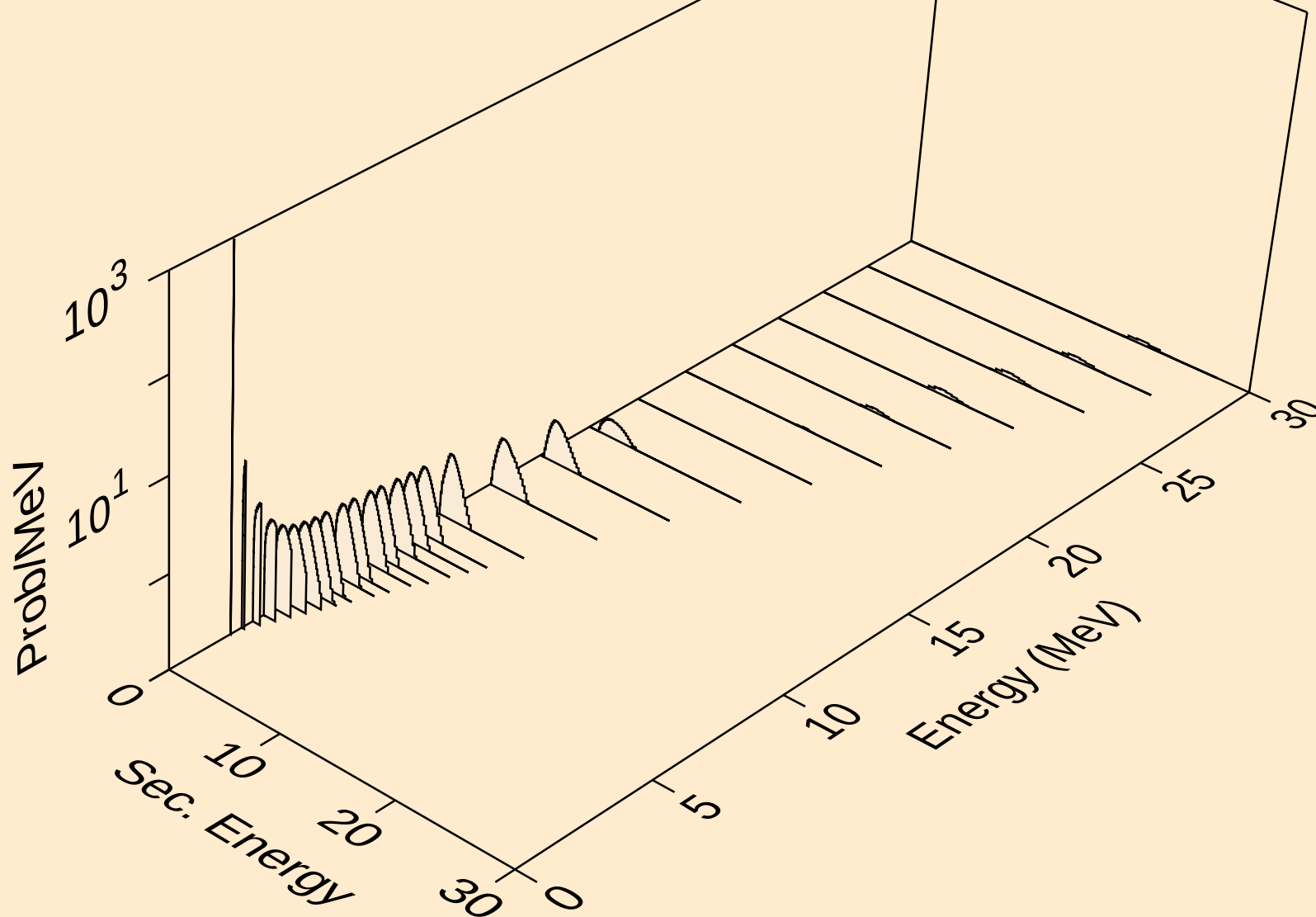
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Neutron emission for (n,n2p)



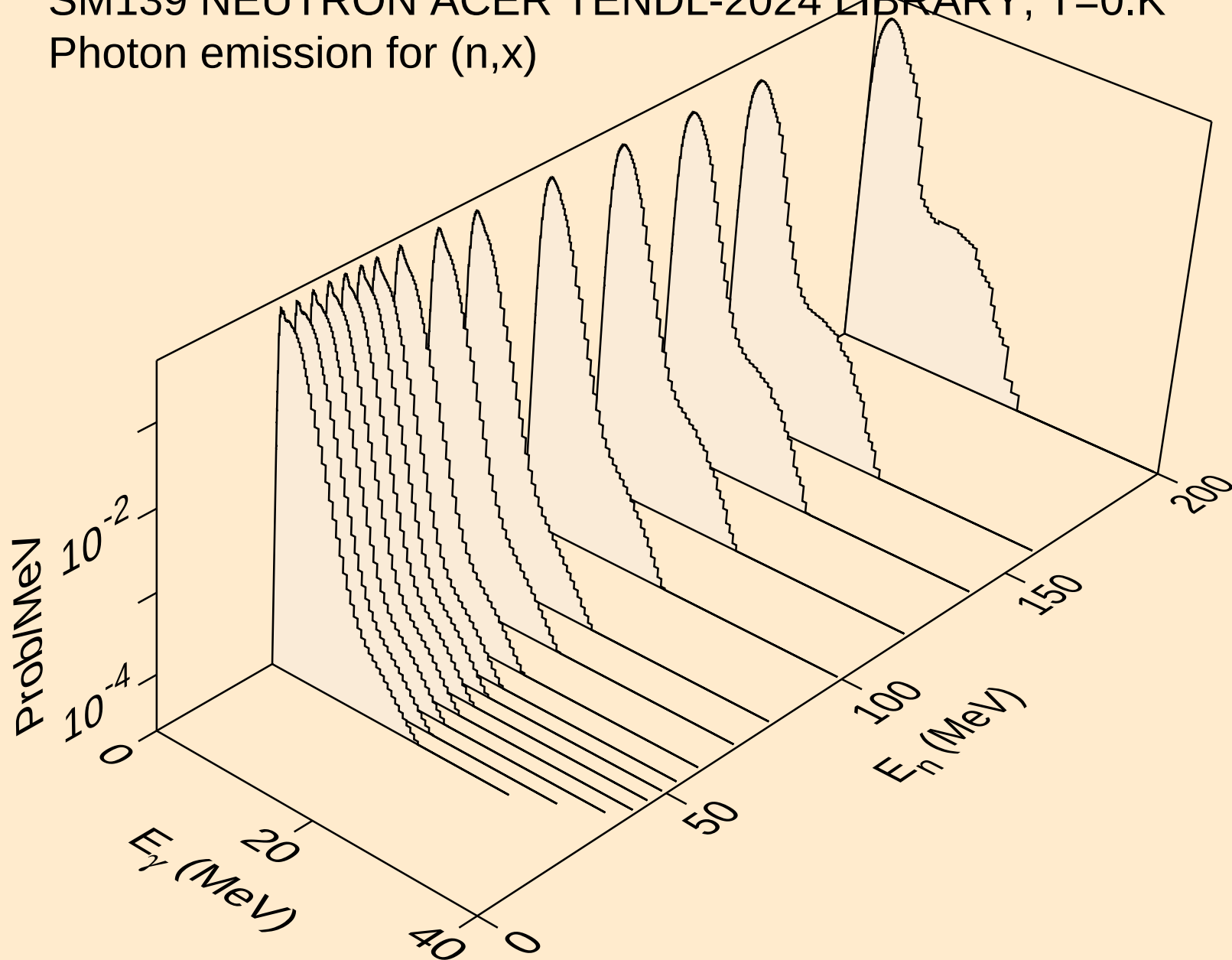
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Neutron emission for (n,npa)



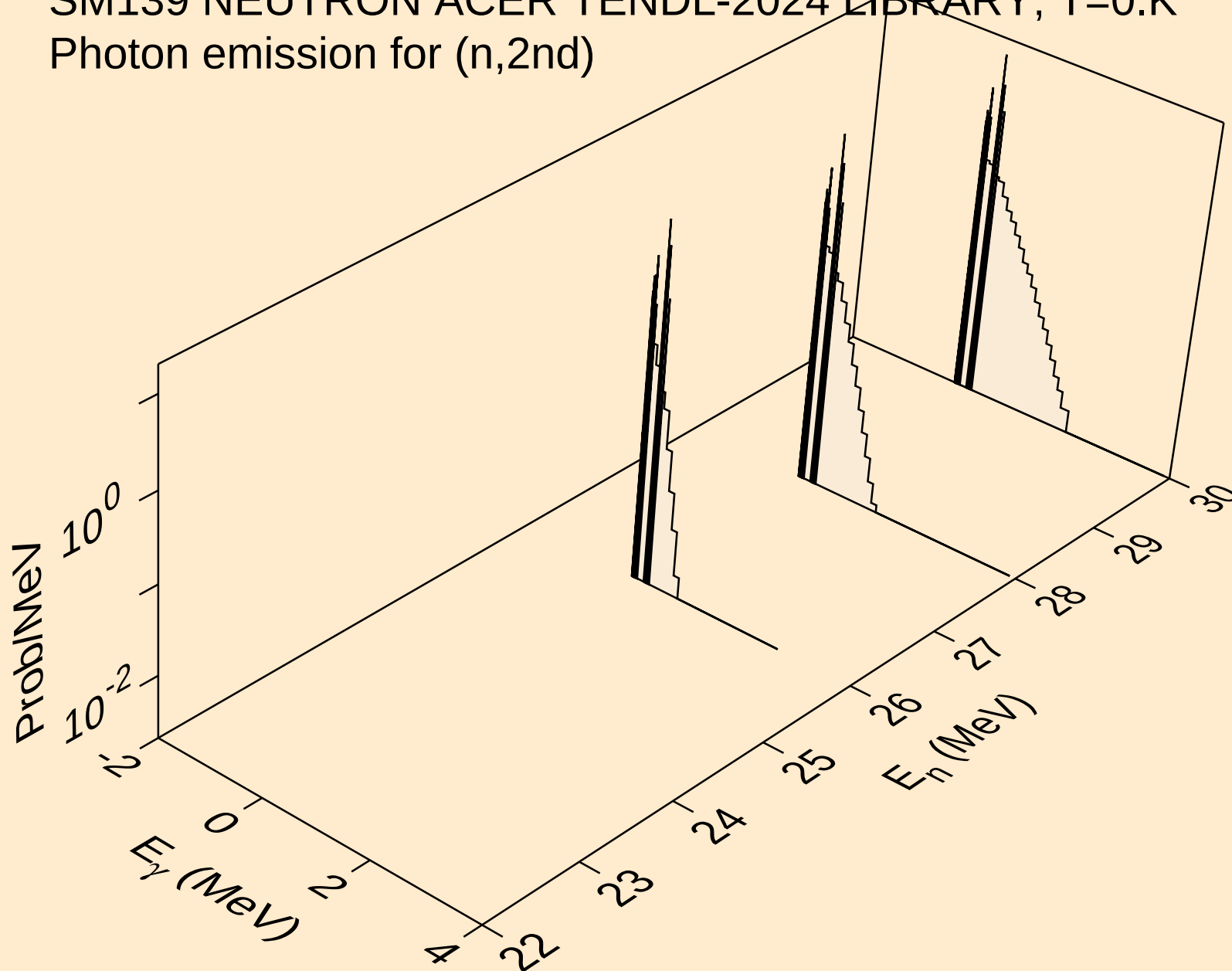
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Neutron emission for (n,n*c)



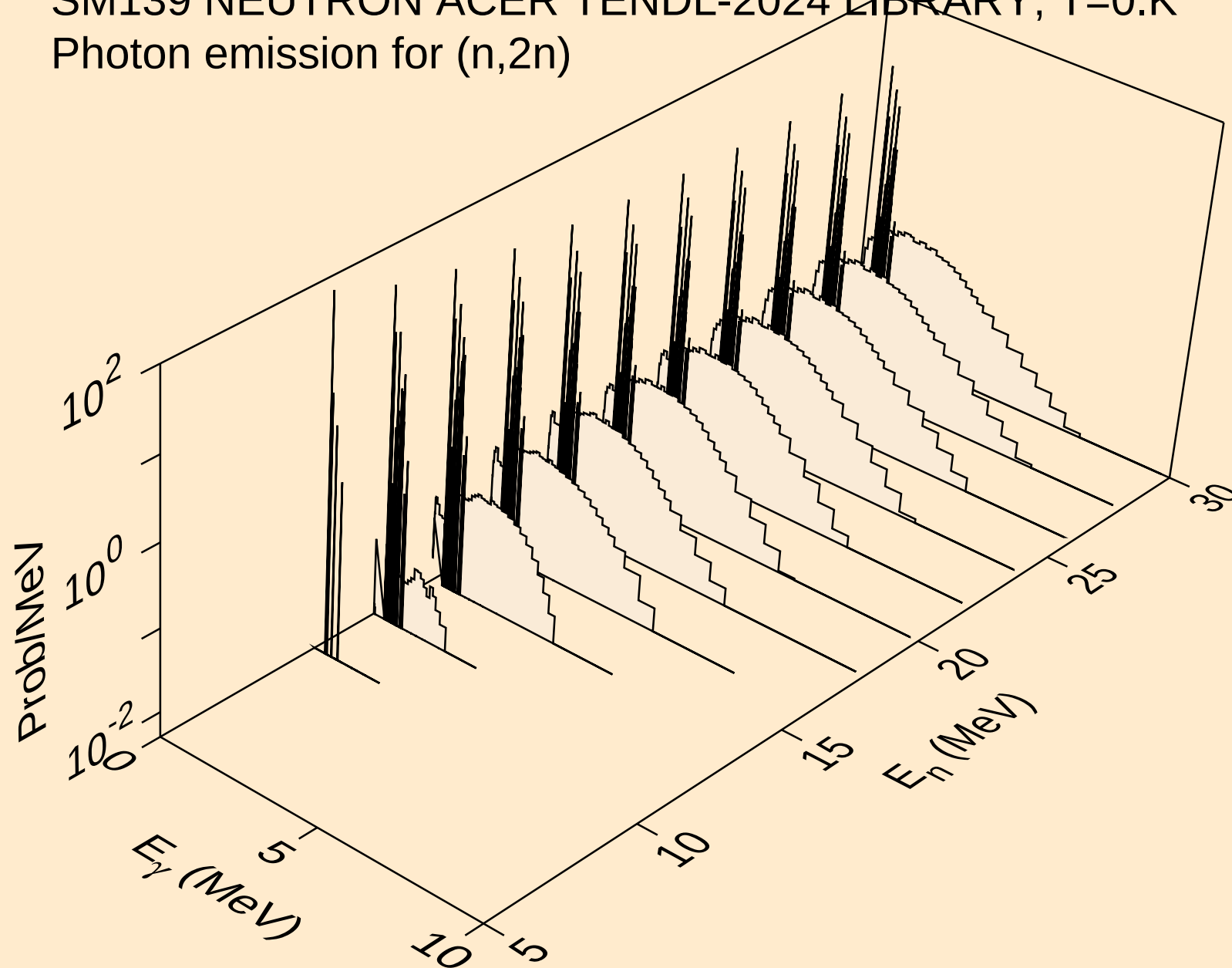
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,x)



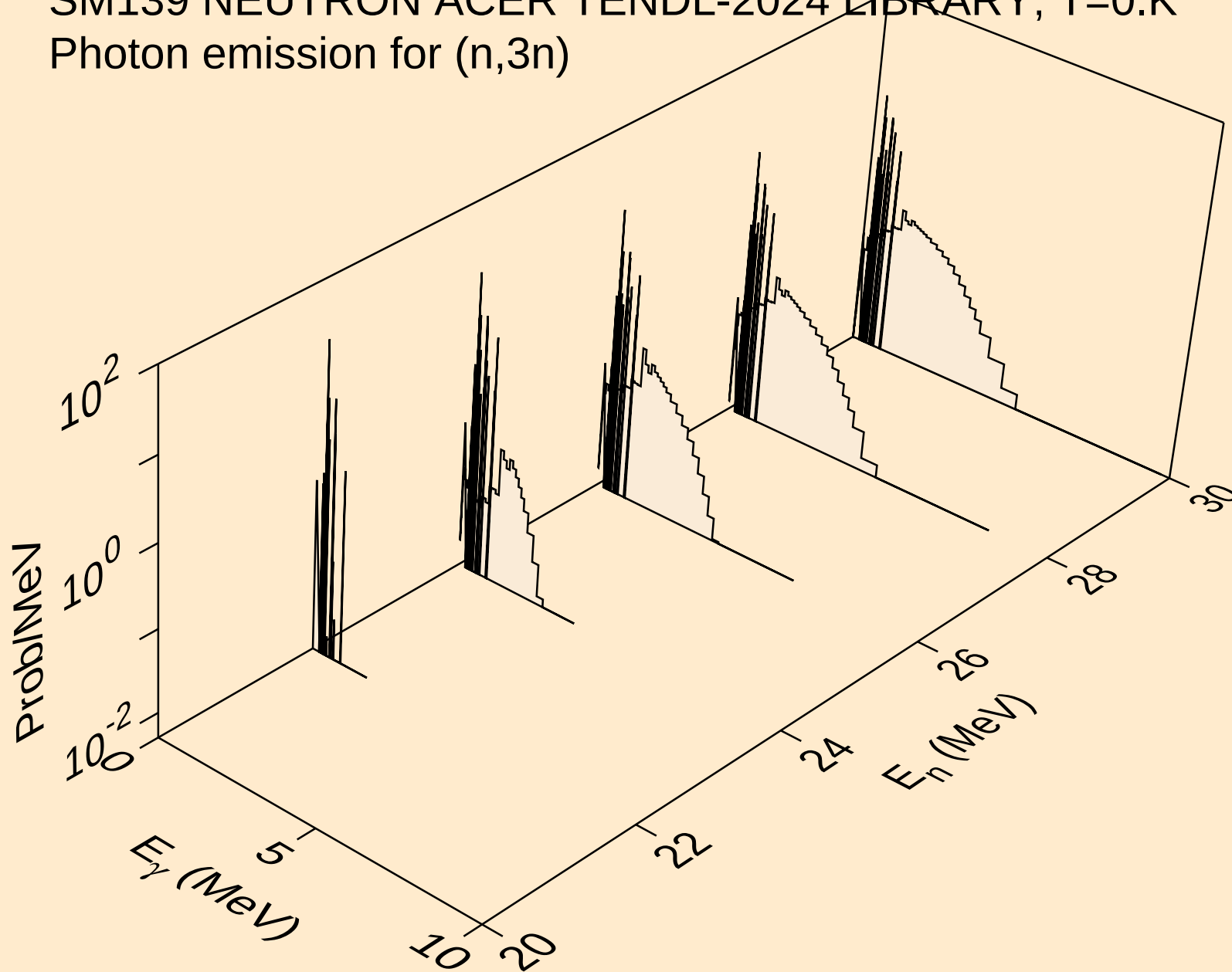
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,2nd)



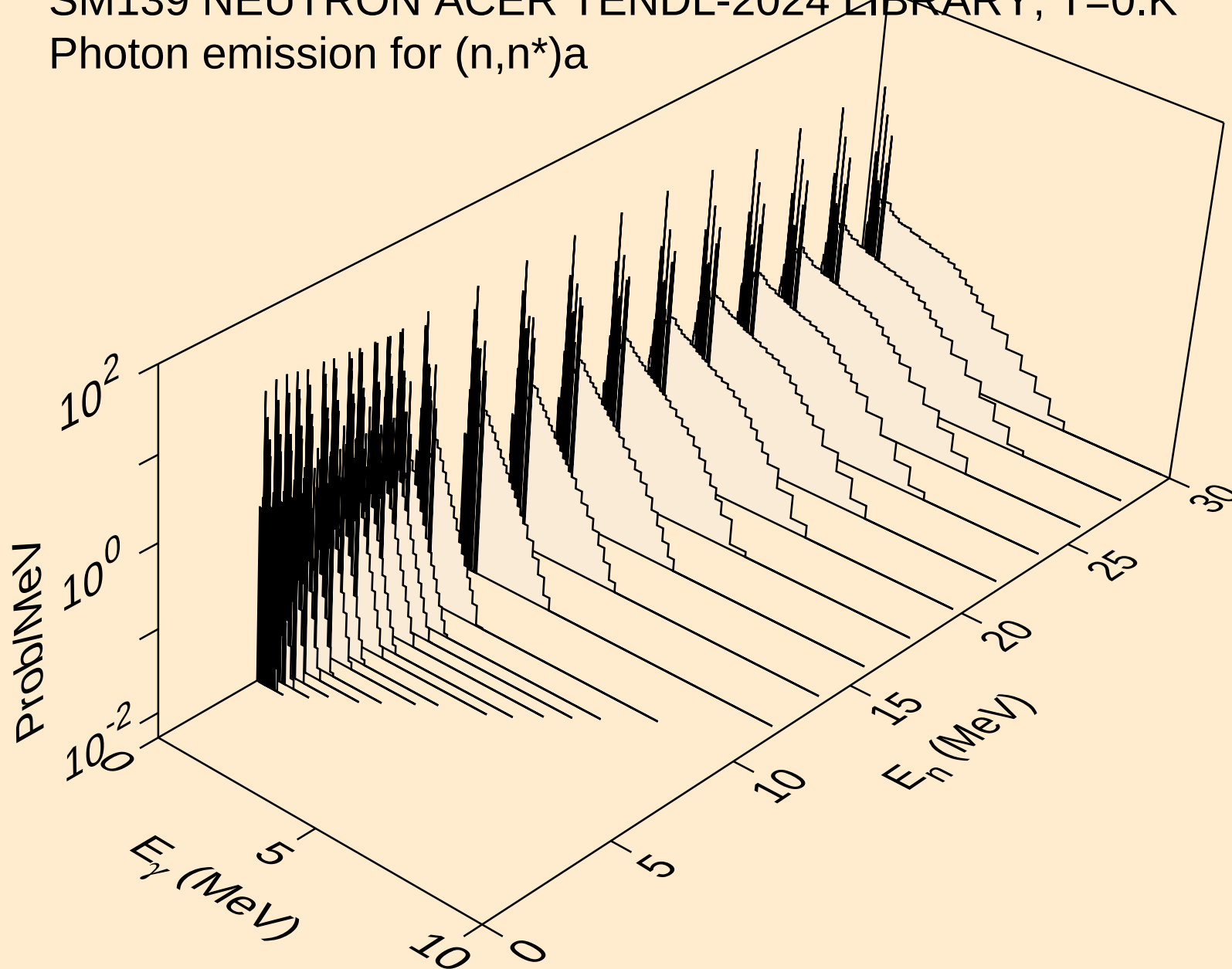
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,2n)



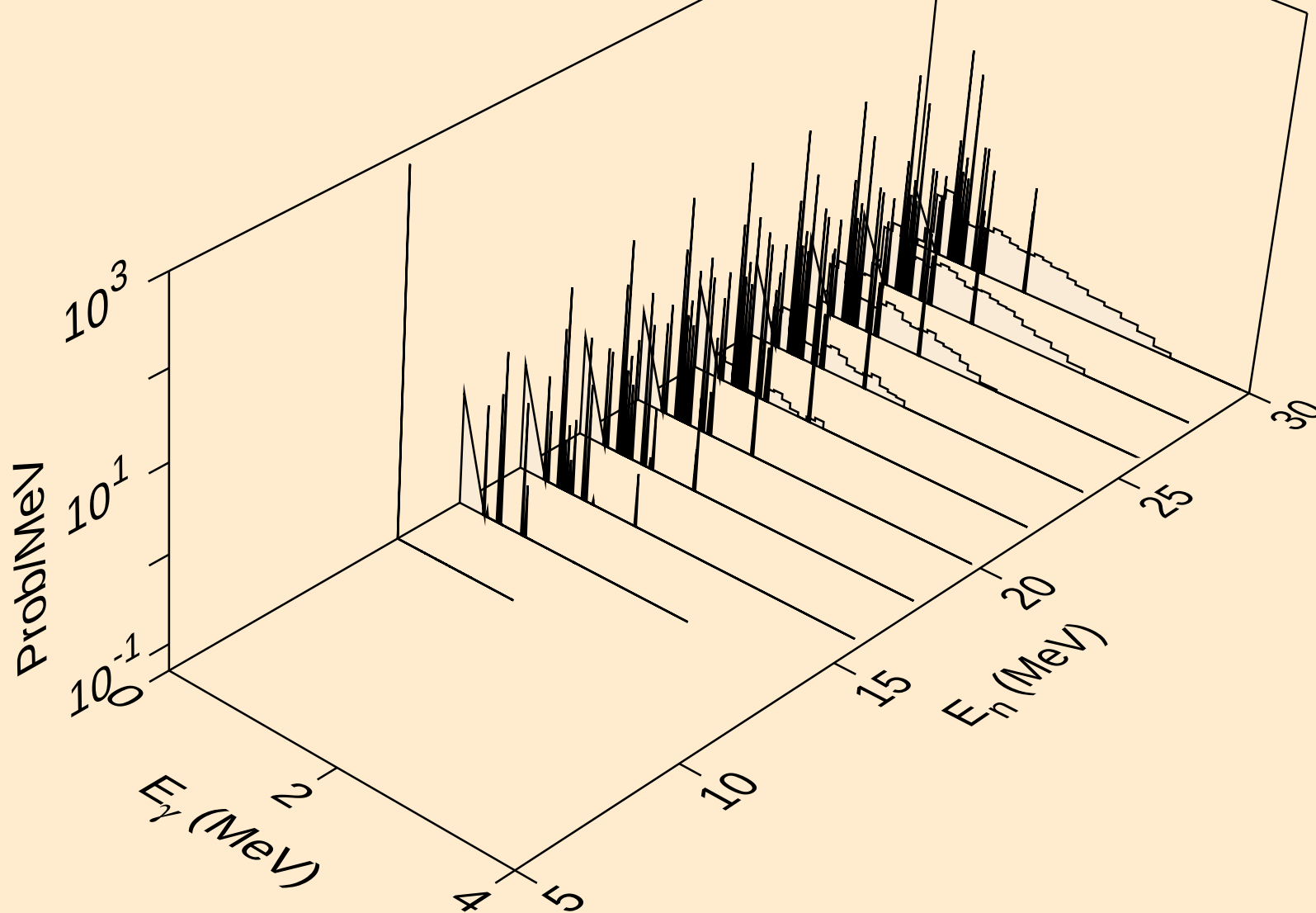
SM139 NEUTRON ACER TENDL-2024 LIBRARY; $T=0.K$
Photon emission for (n,3n)



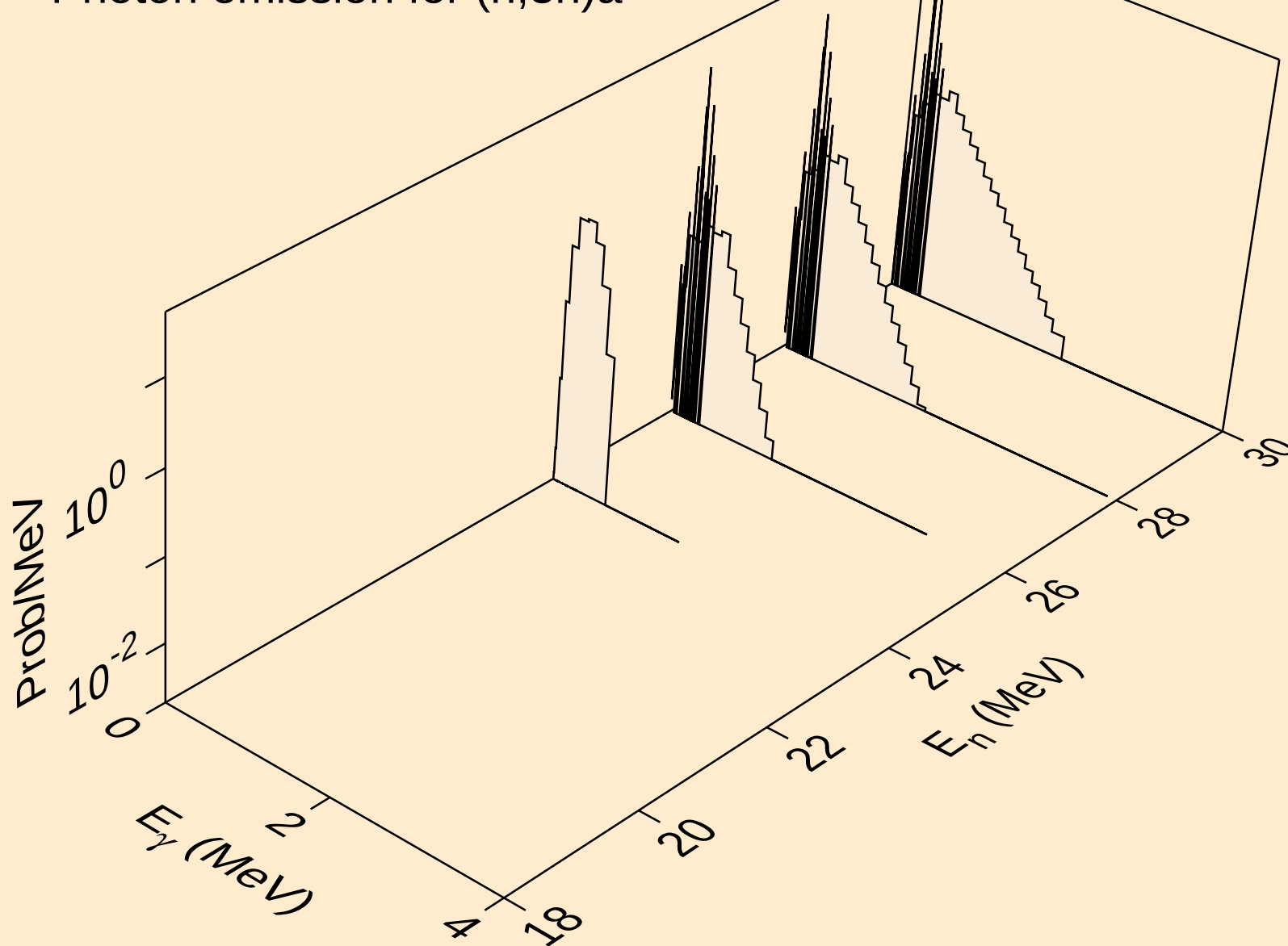
SM139 NEUTRON ACER TENDL-2024 LIBRARY; $T=0.K$
Photon emission for $(n,n^*)a$



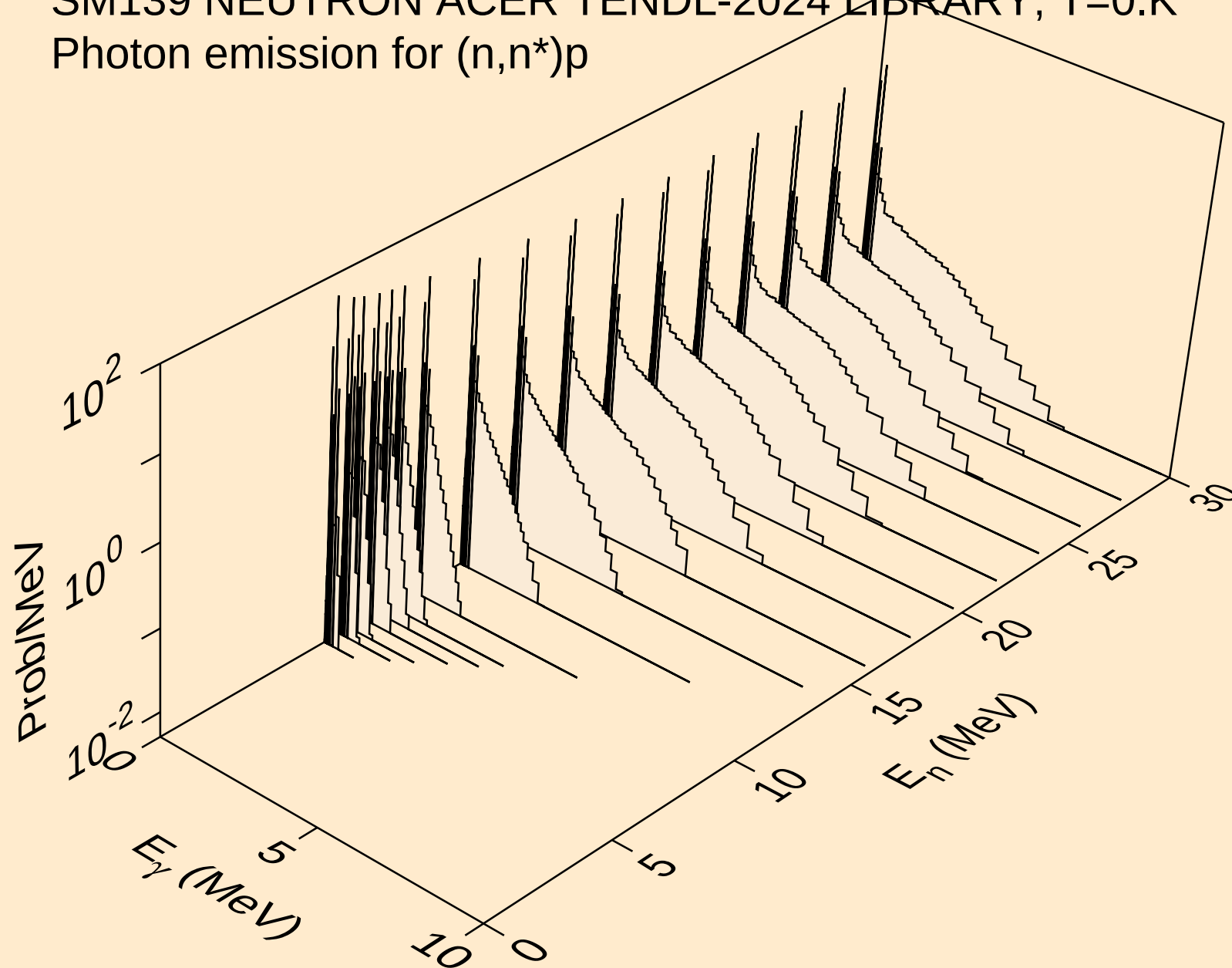
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,2n) α



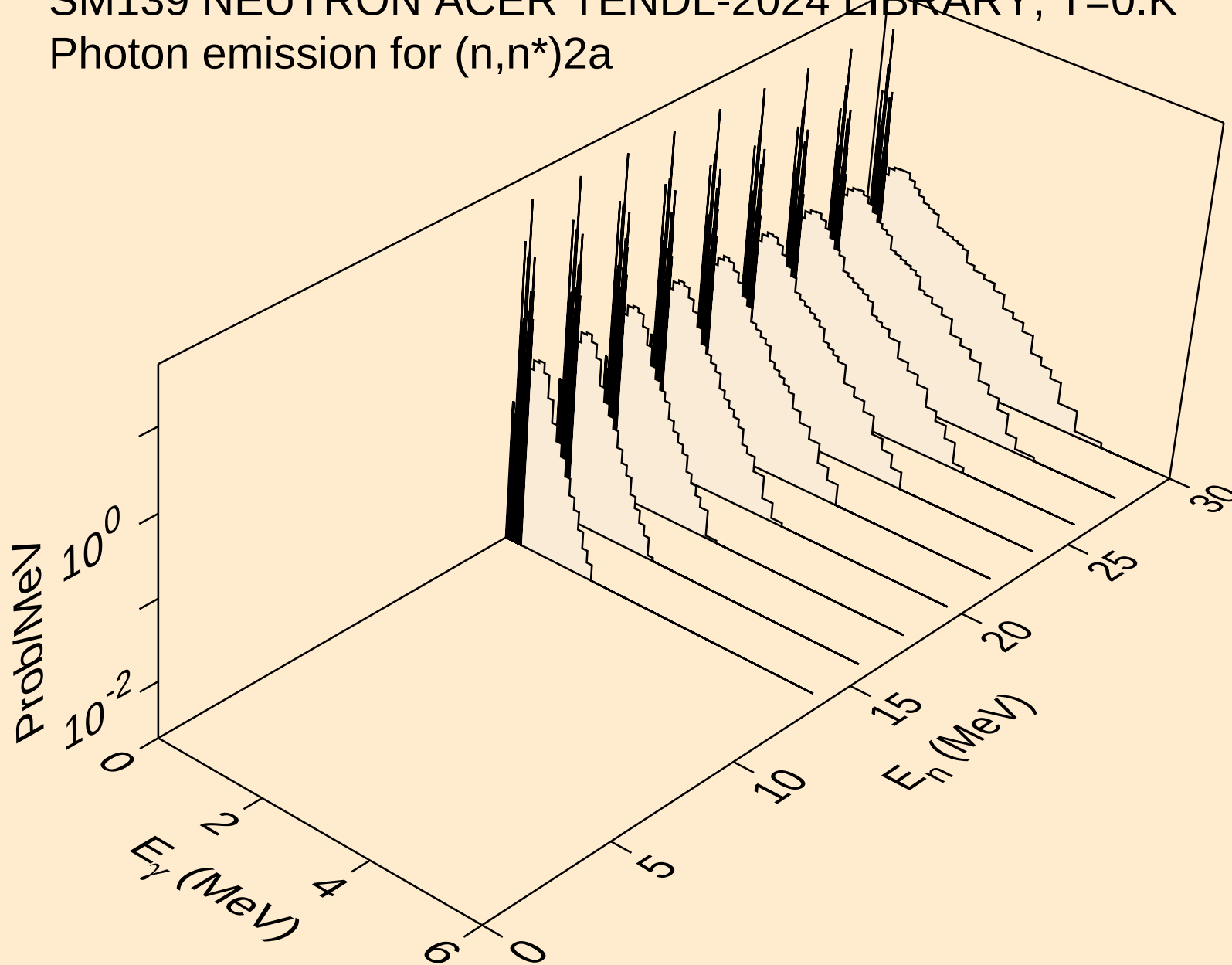
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,3n)a



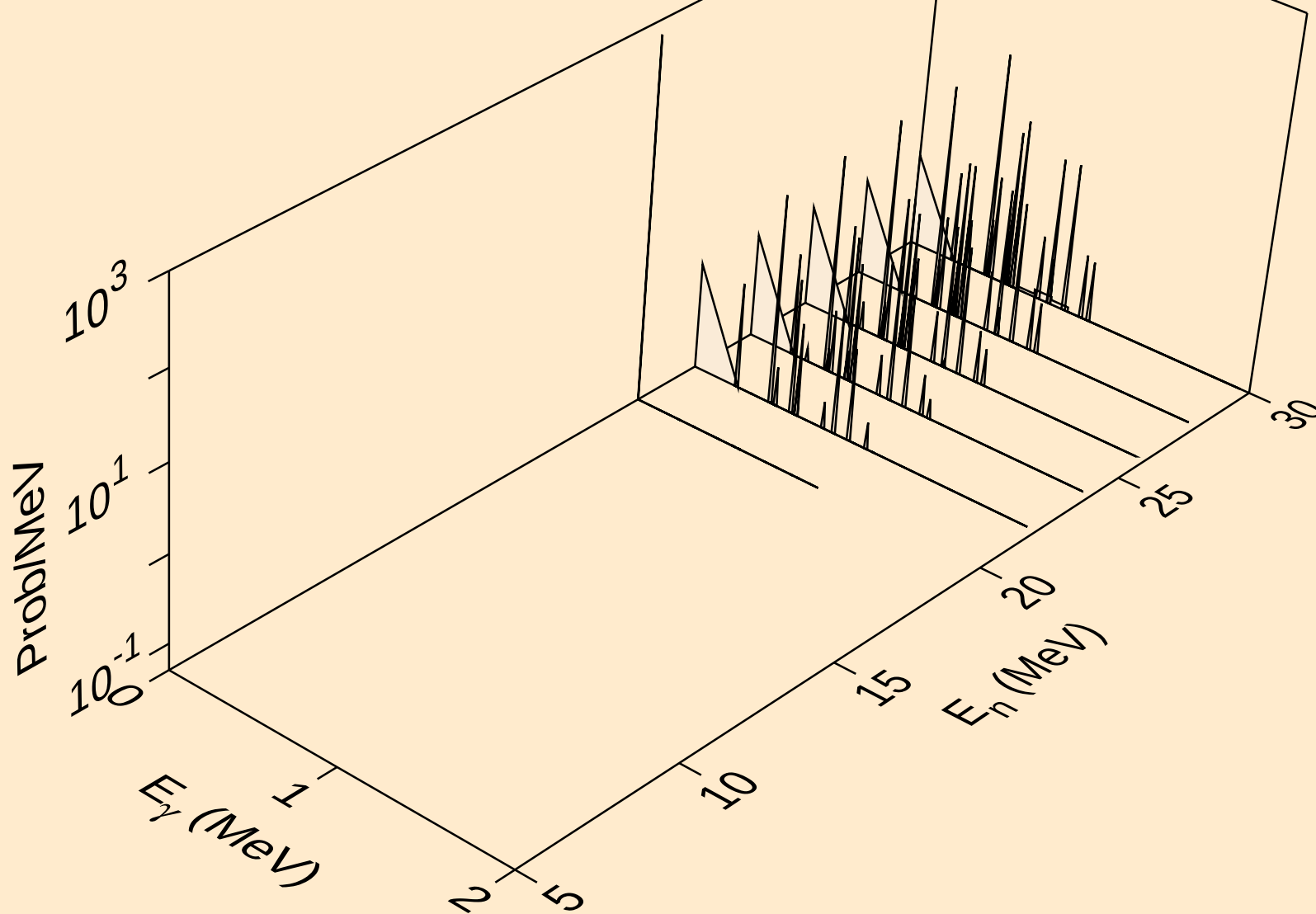
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,n*)p



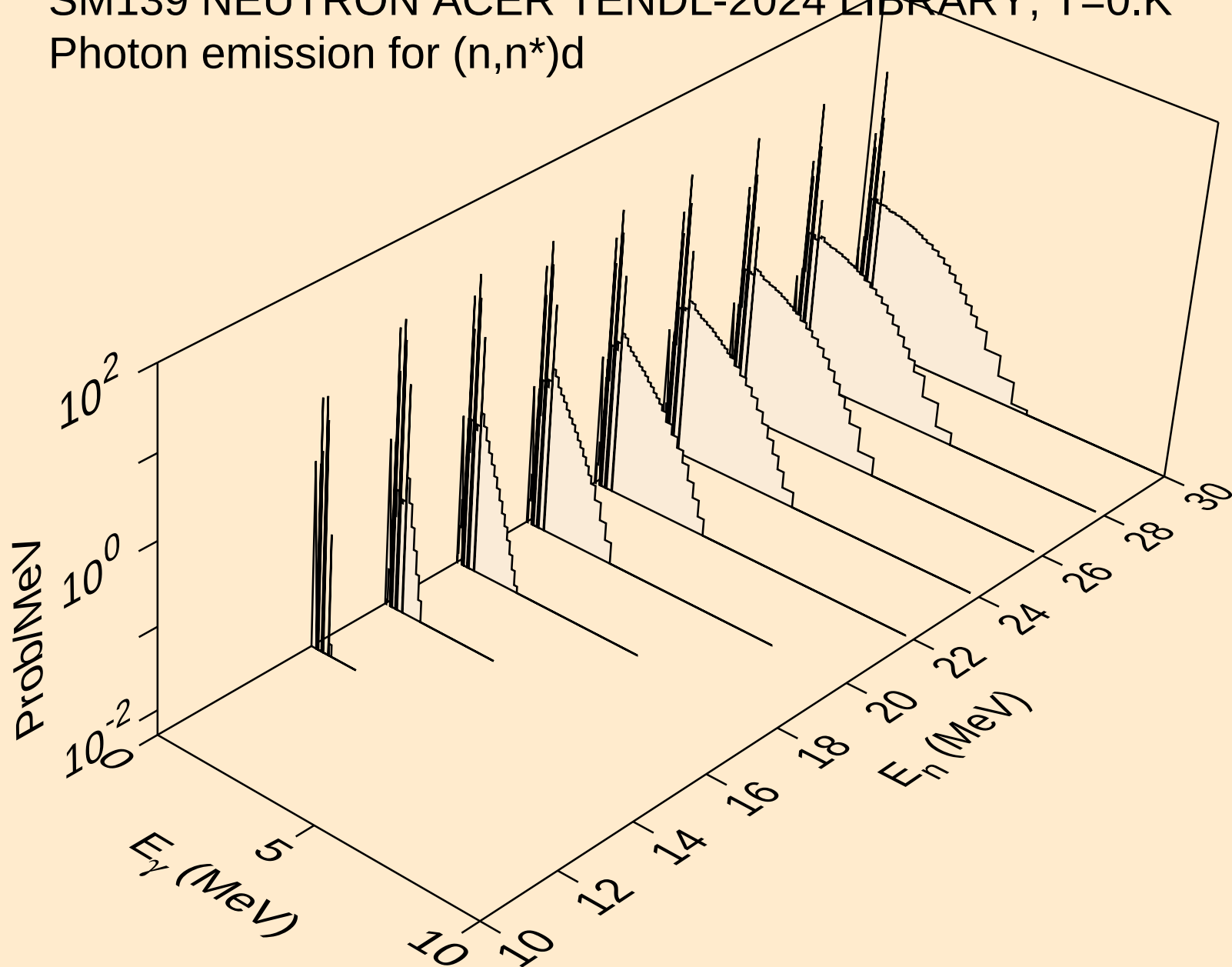
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,n*)2a



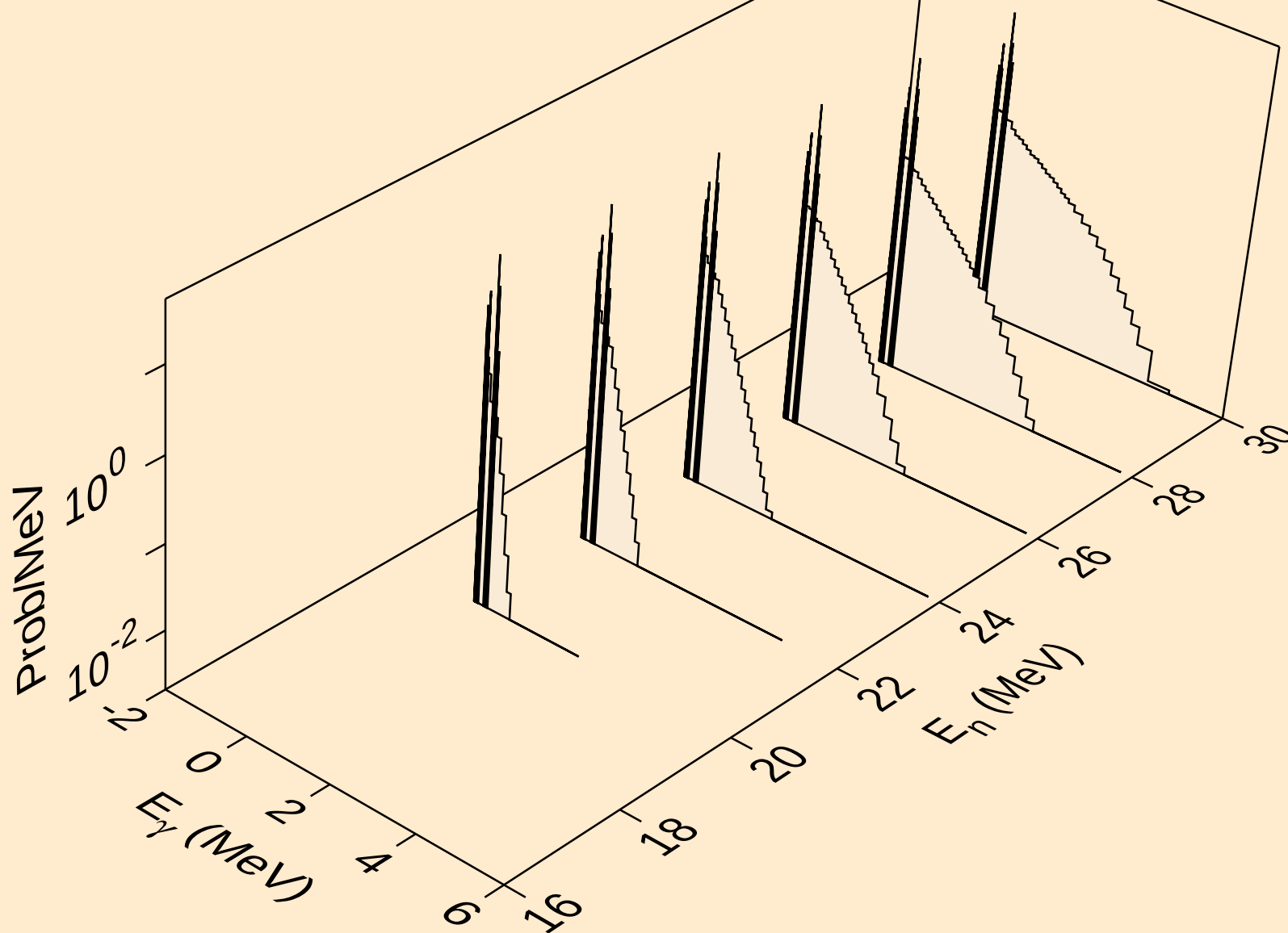
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,2n)2a



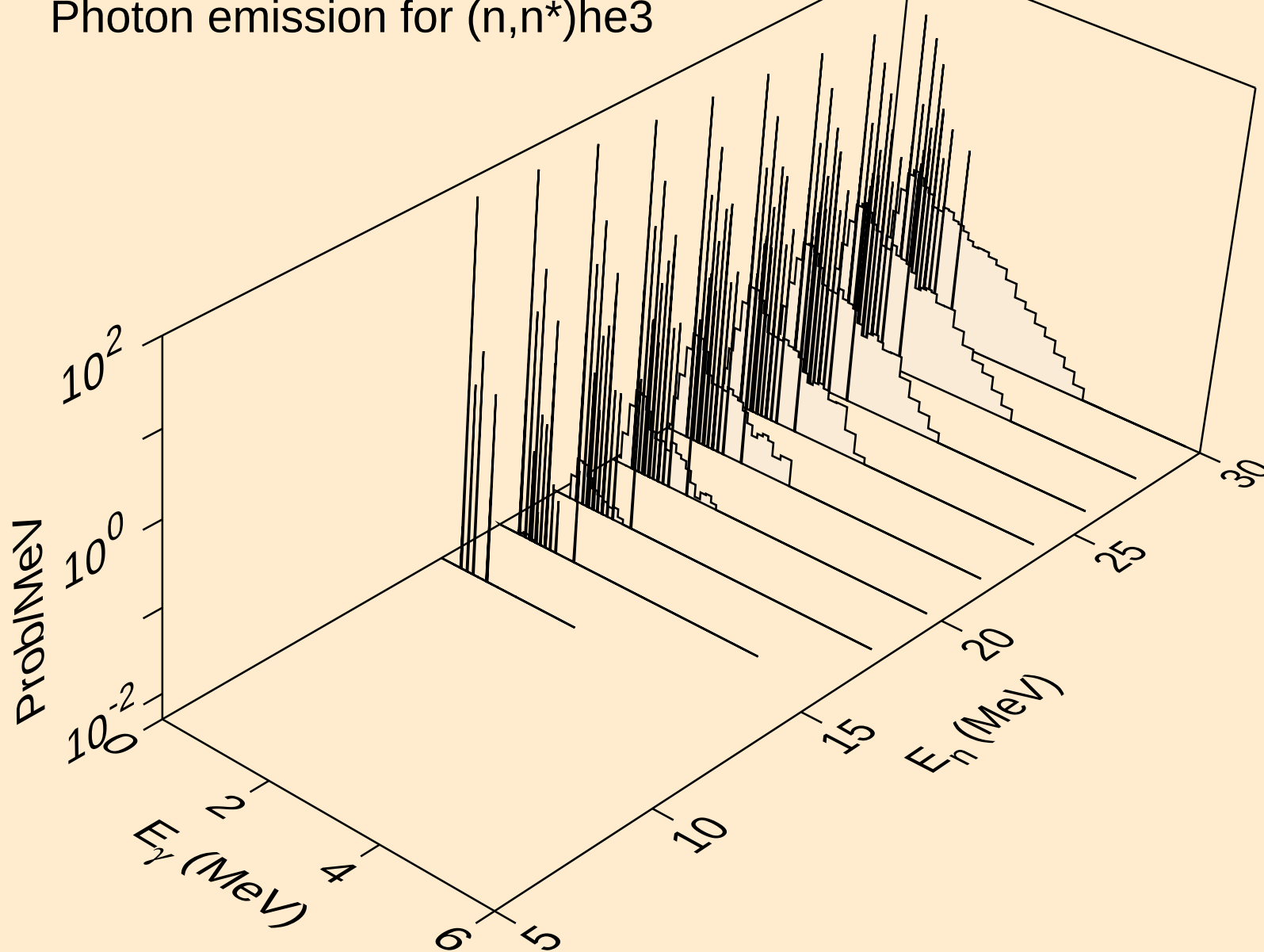
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,n*)d



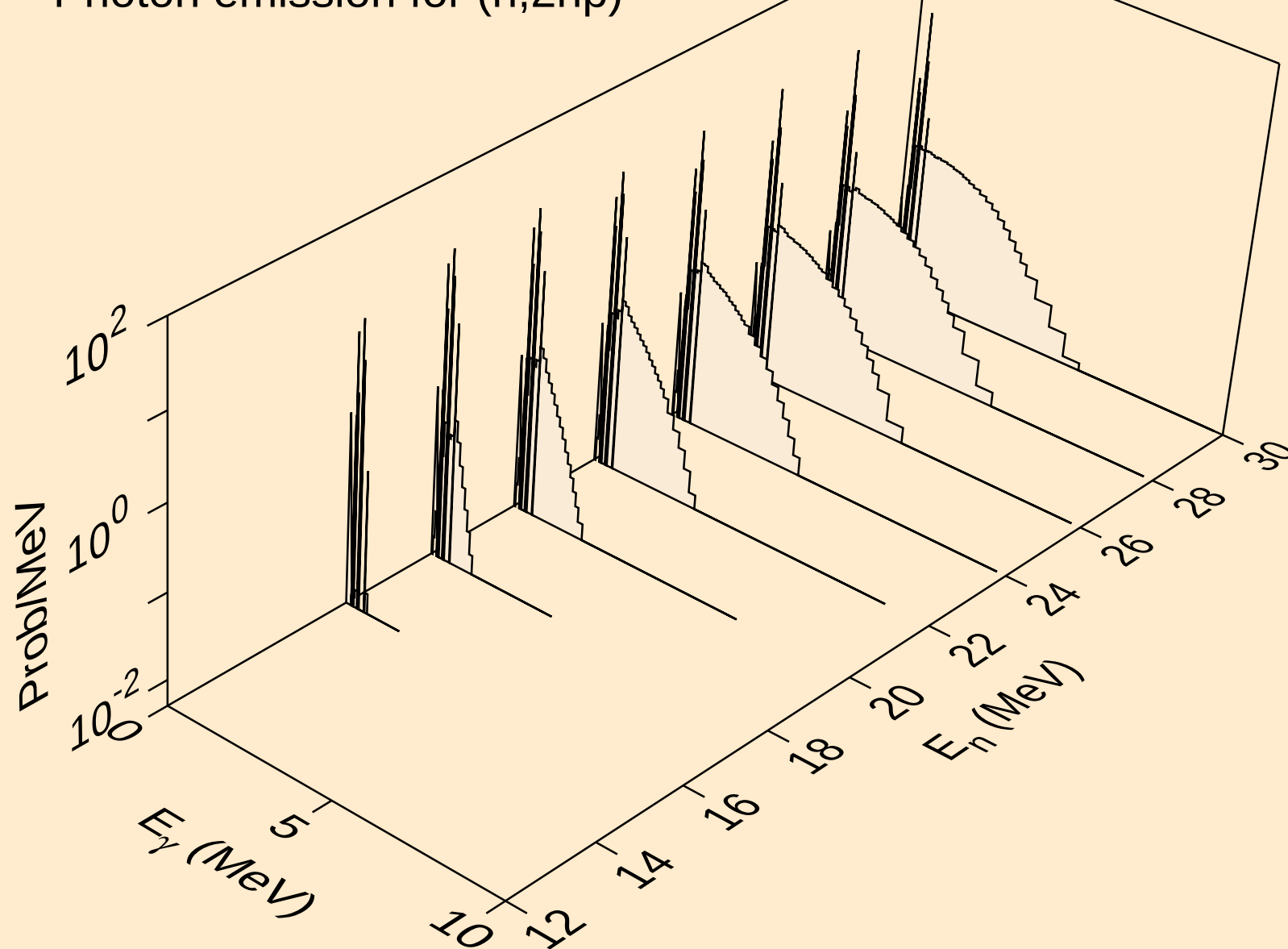
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,n*)t



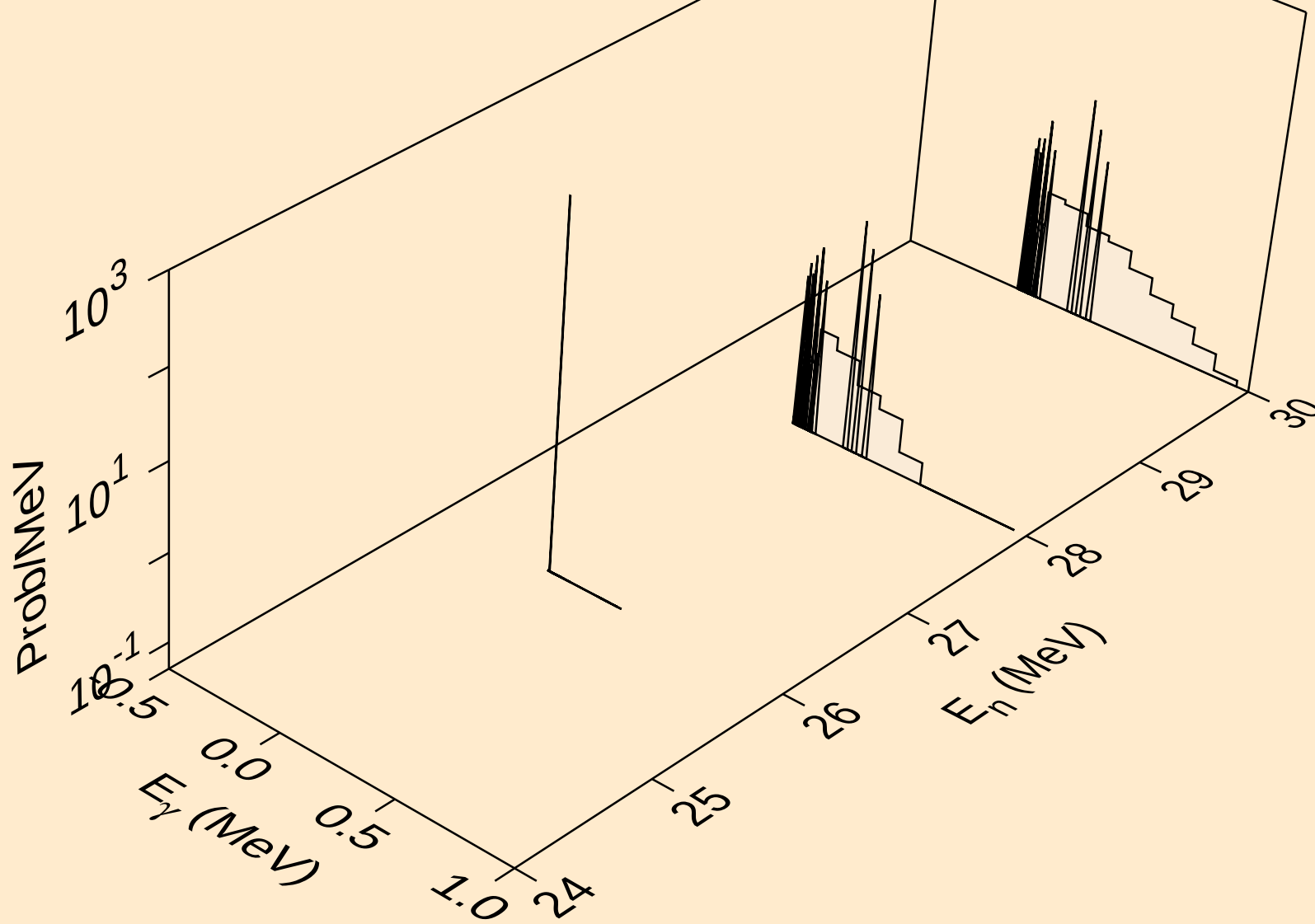
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,n*)he3



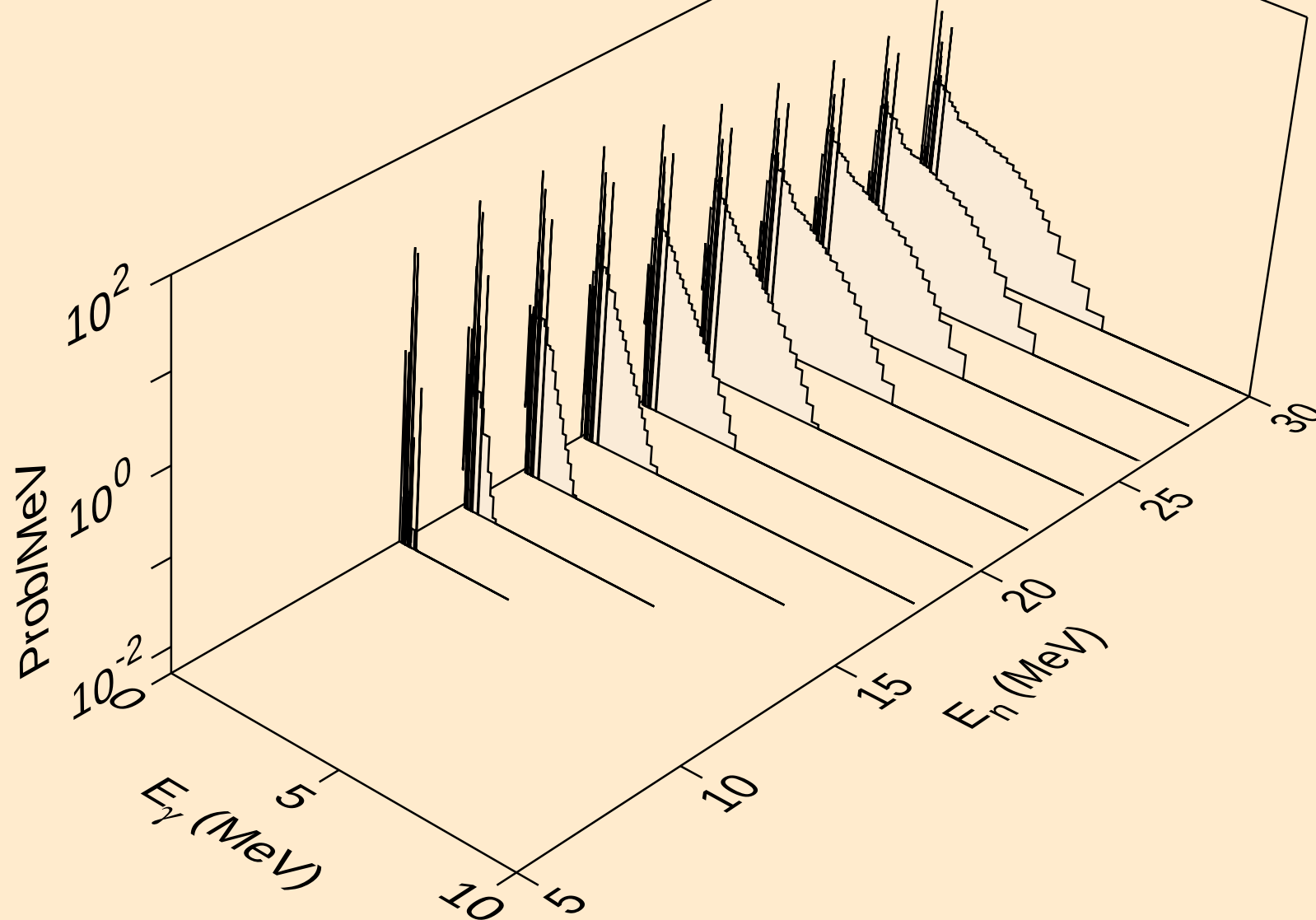
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,2np)



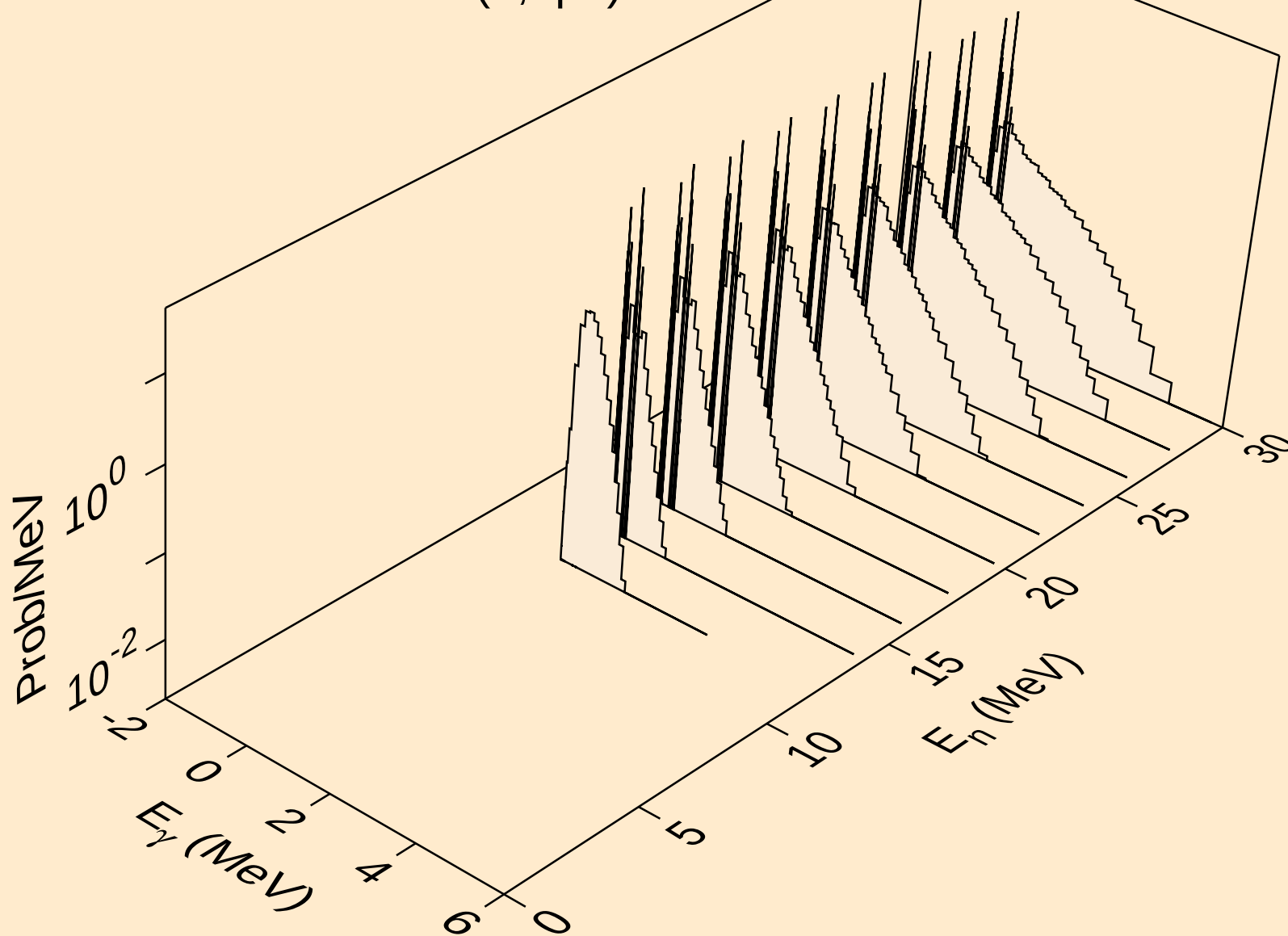
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,3np)



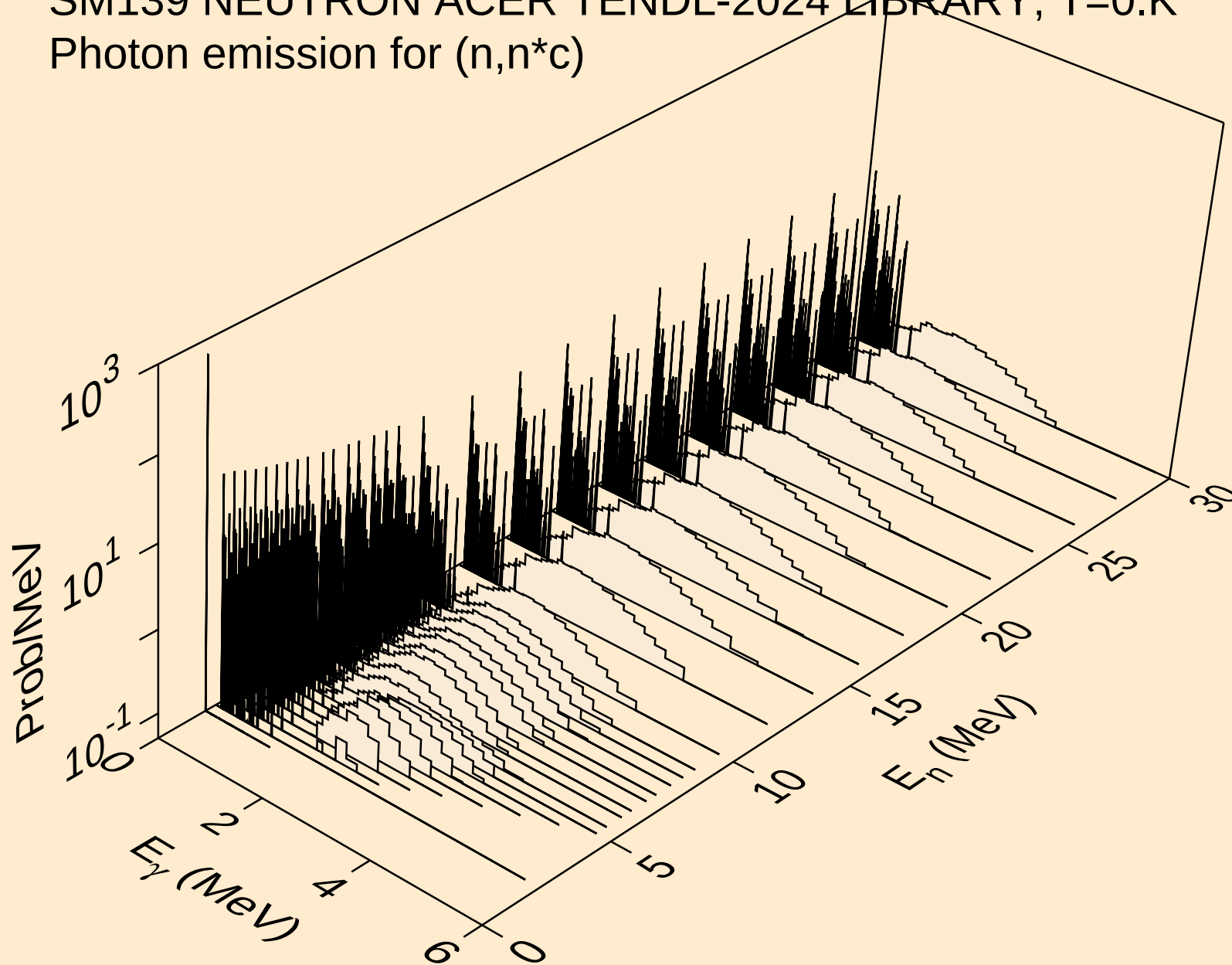
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,n2p)



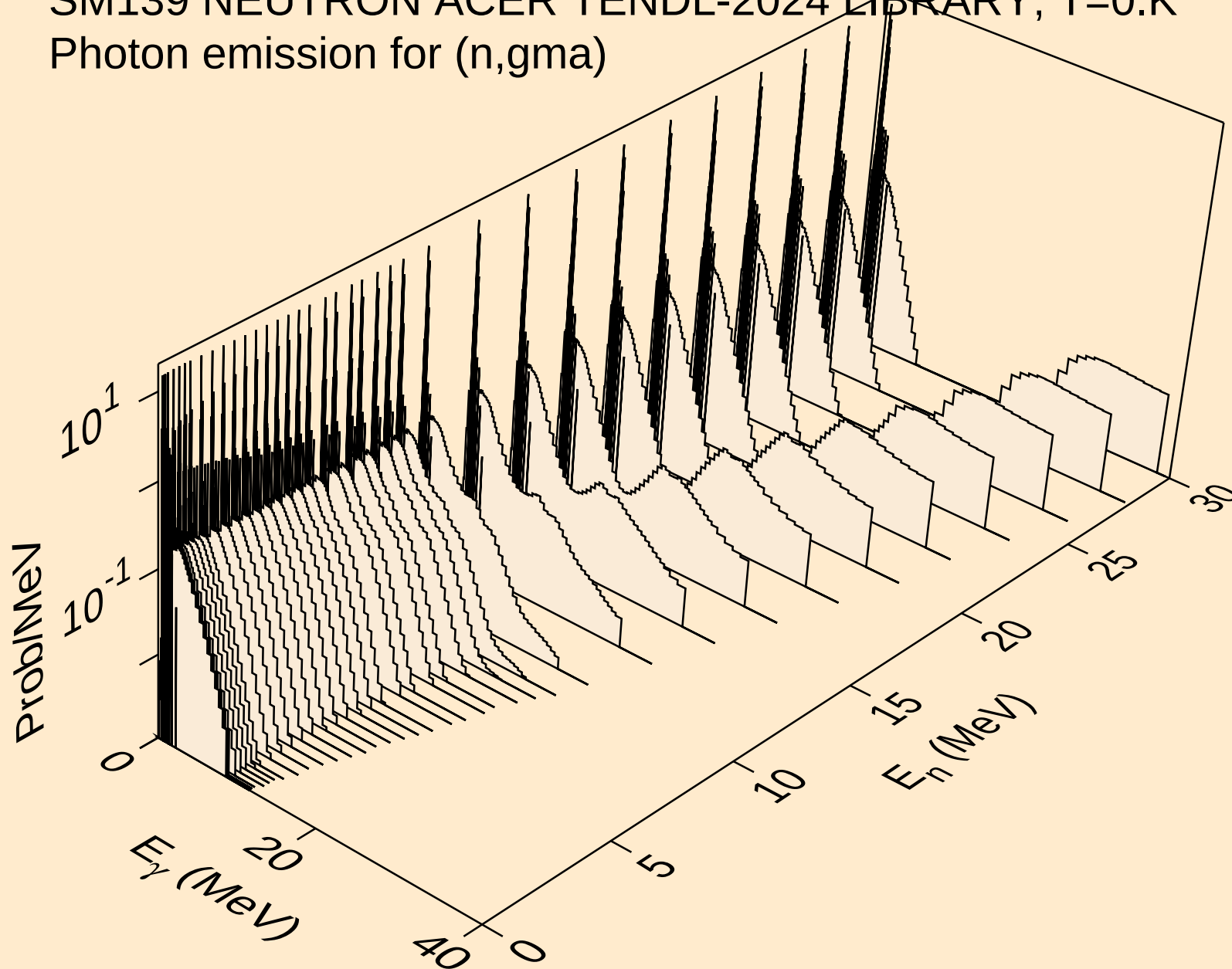
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,npa)



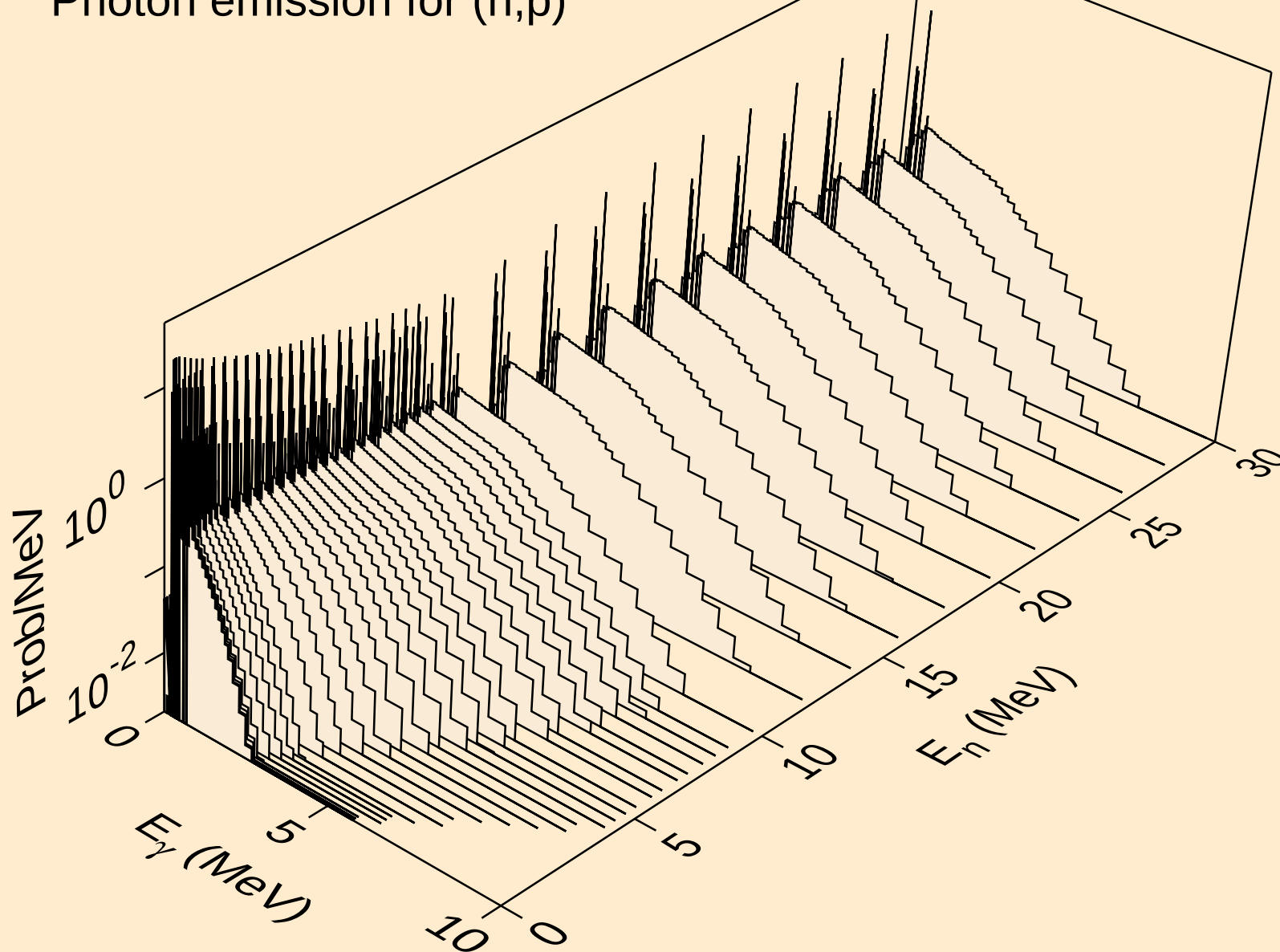
SM139 NEUTRON ACER TENDL-2024 LIBRARY; $T=0.K$
Photon emission for (n,n*c)



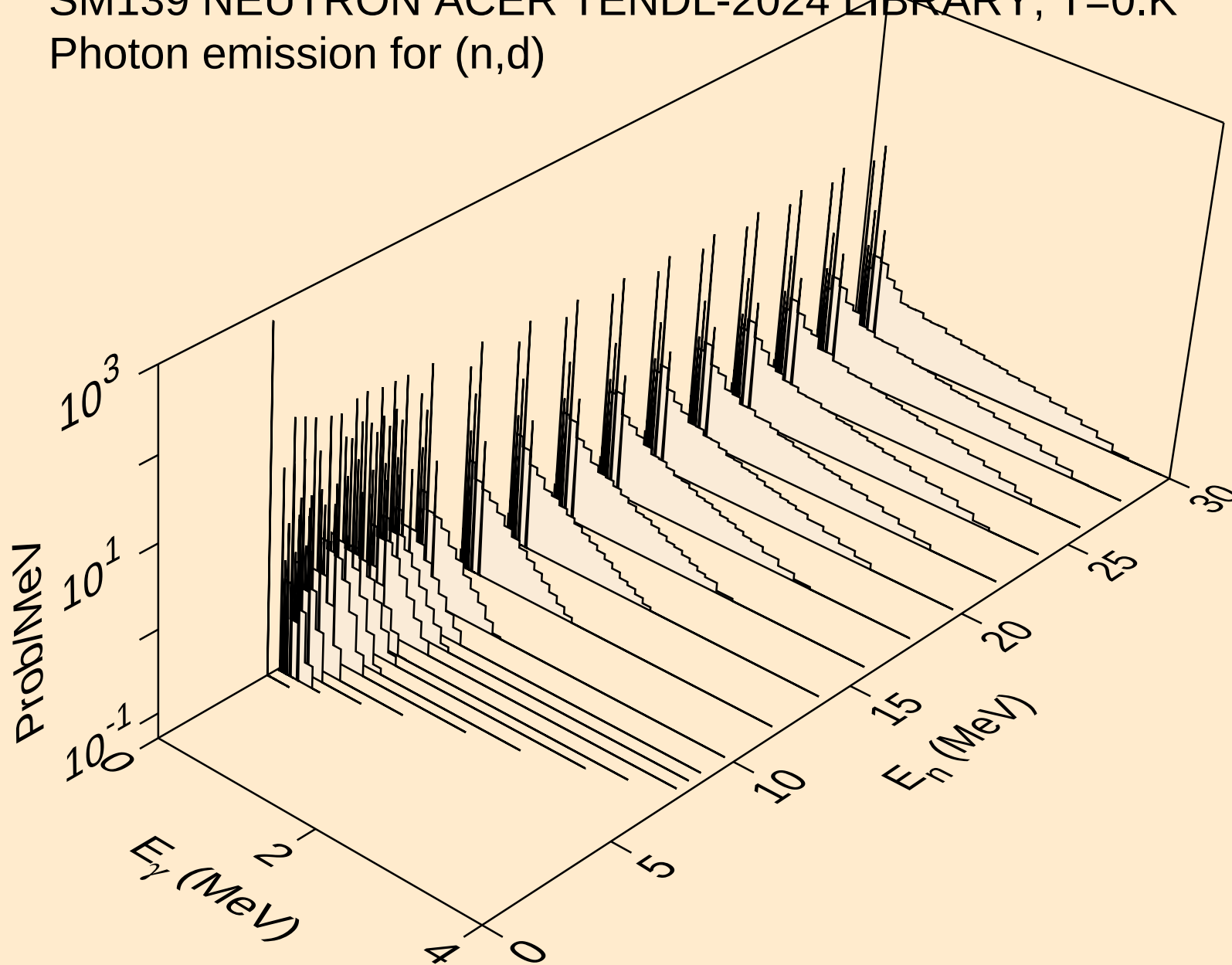
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Photon emission for (n,gma)



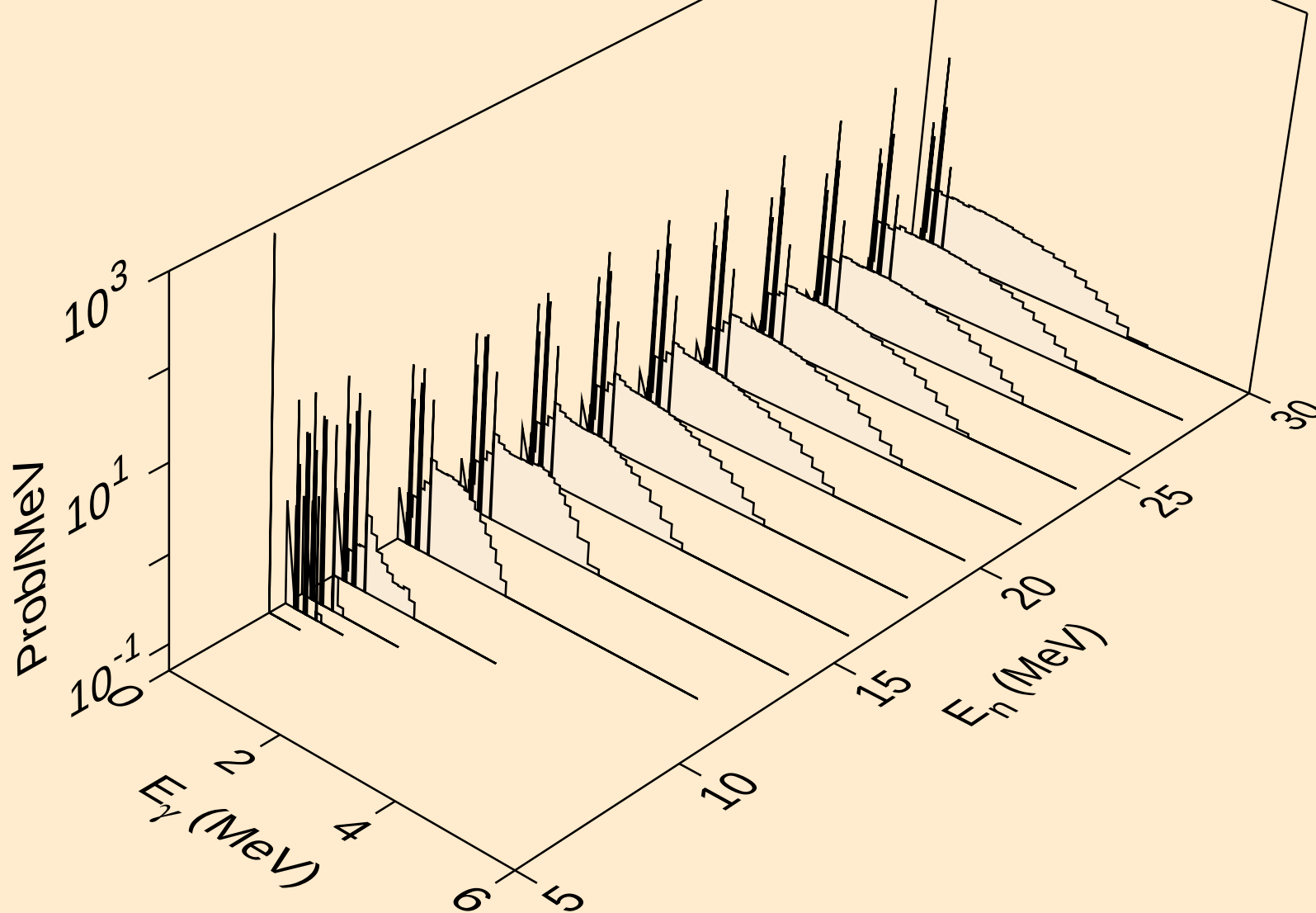
SM139 NEUTRON ACER TENDL-2024 LIBRARY; $T=0.K$
Photon emission for (n,p)



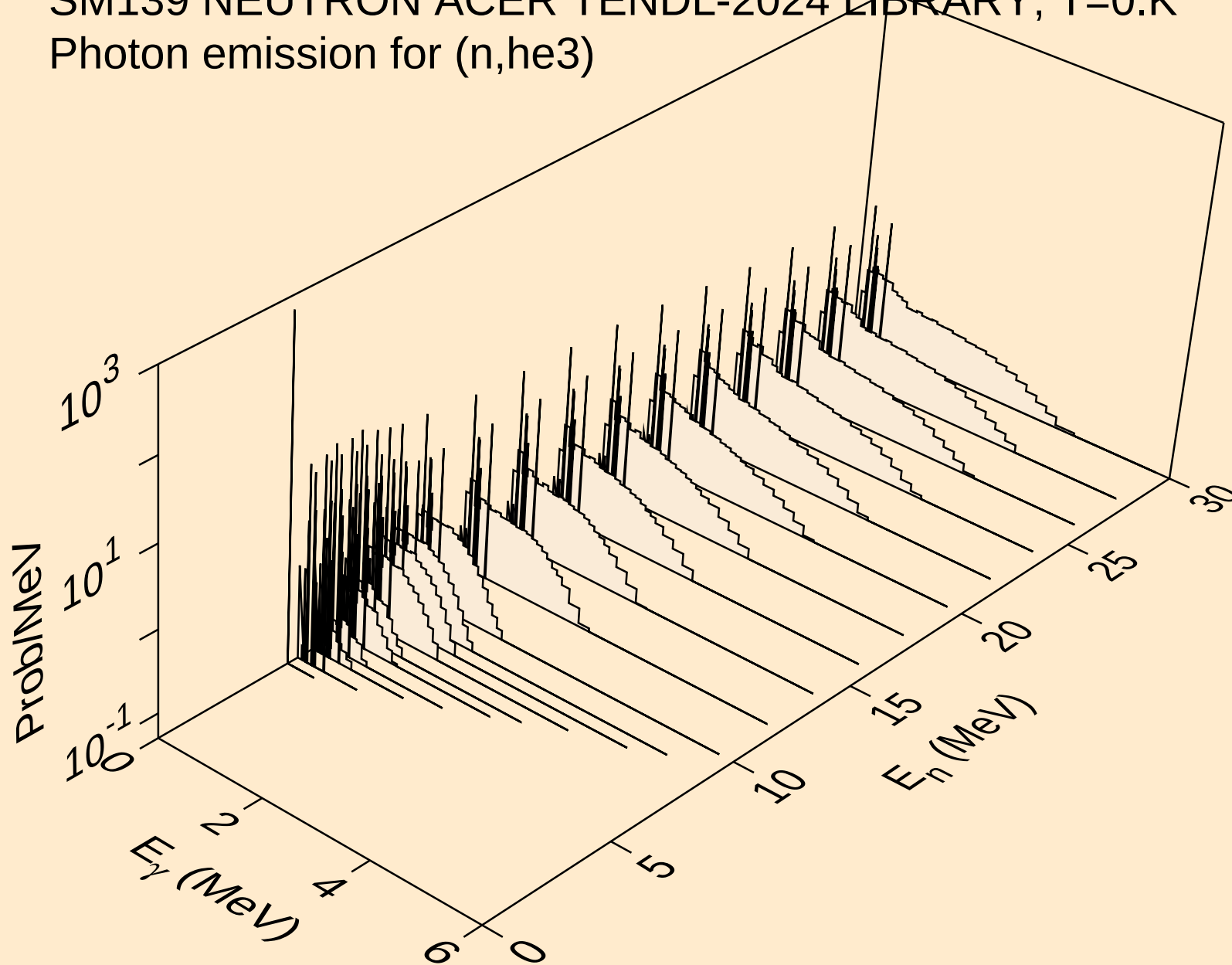
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,d)



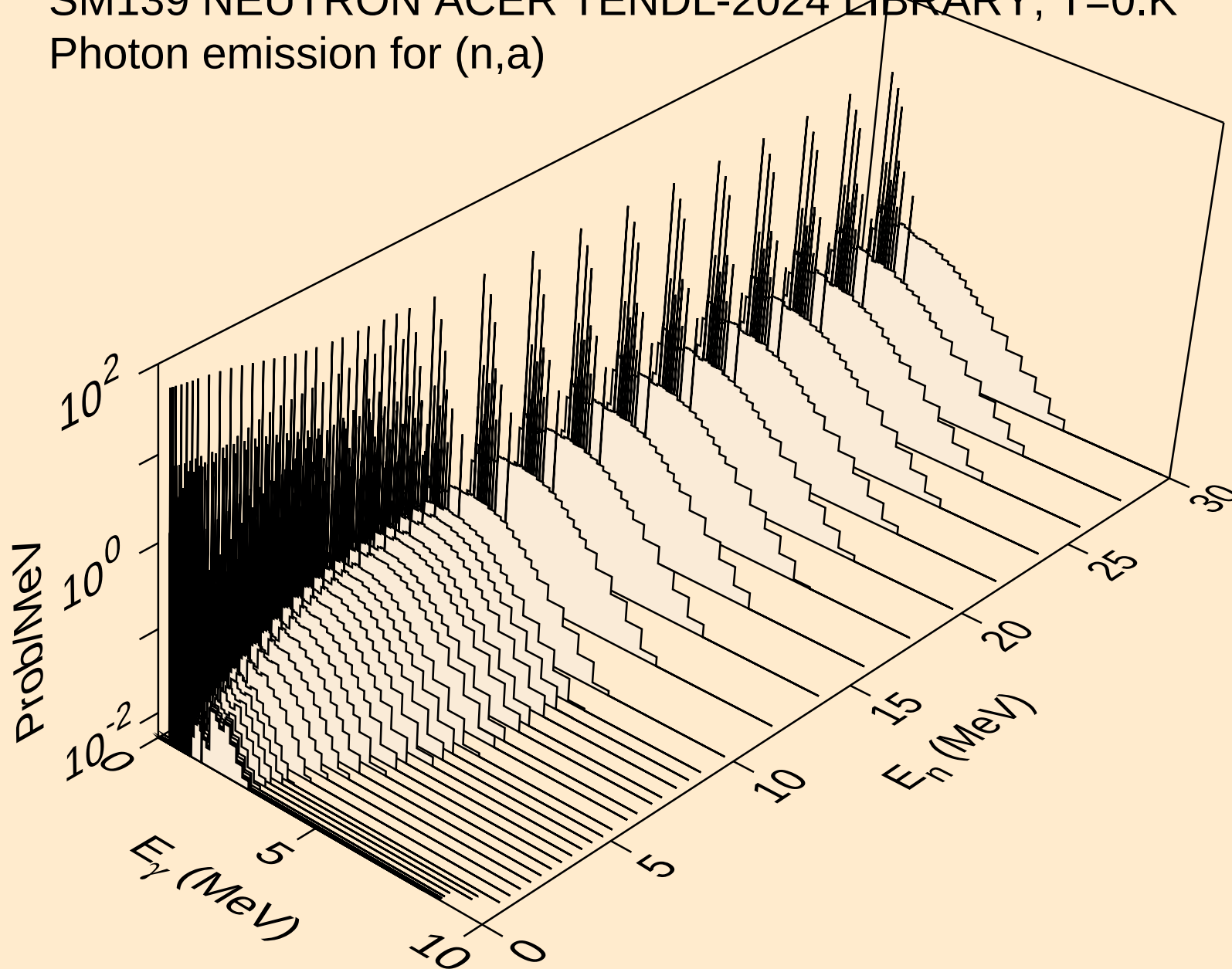
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,t)



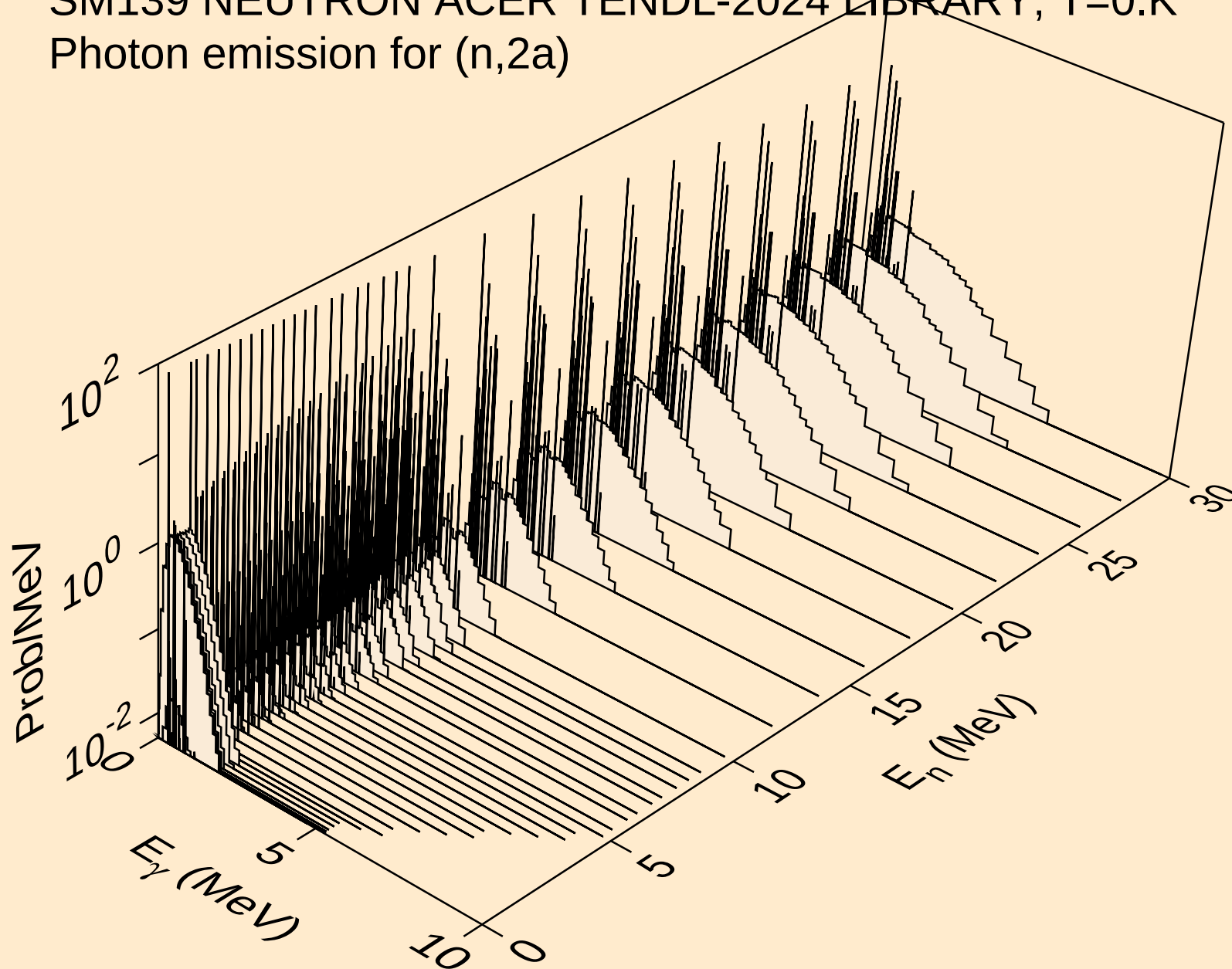
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,he3)



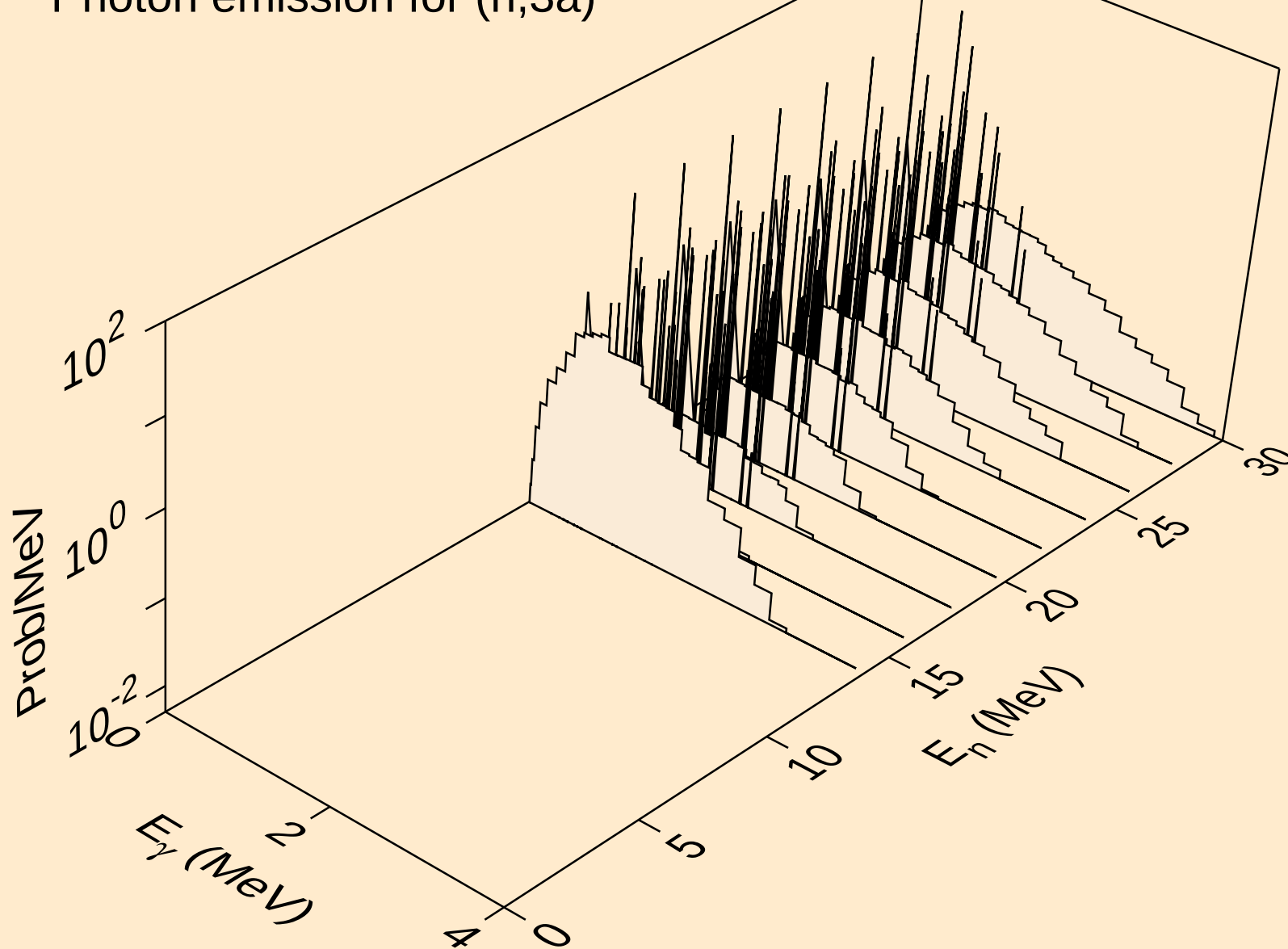
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Photon emission for (n,a)



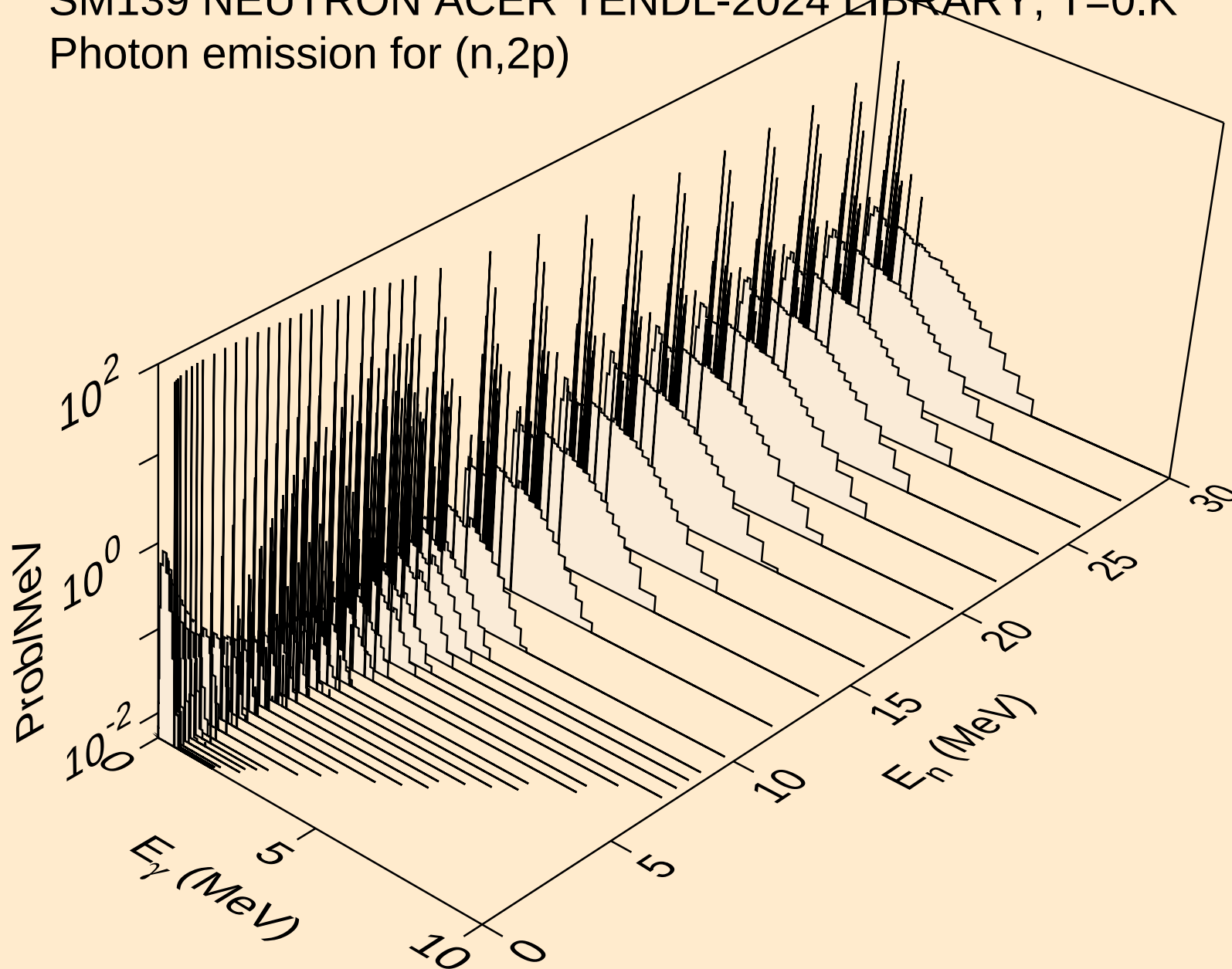
SM139 NEUTRON ACER TENDL-2024 LIBRARY; $T=0.K$
Photon emission for (n,2a)



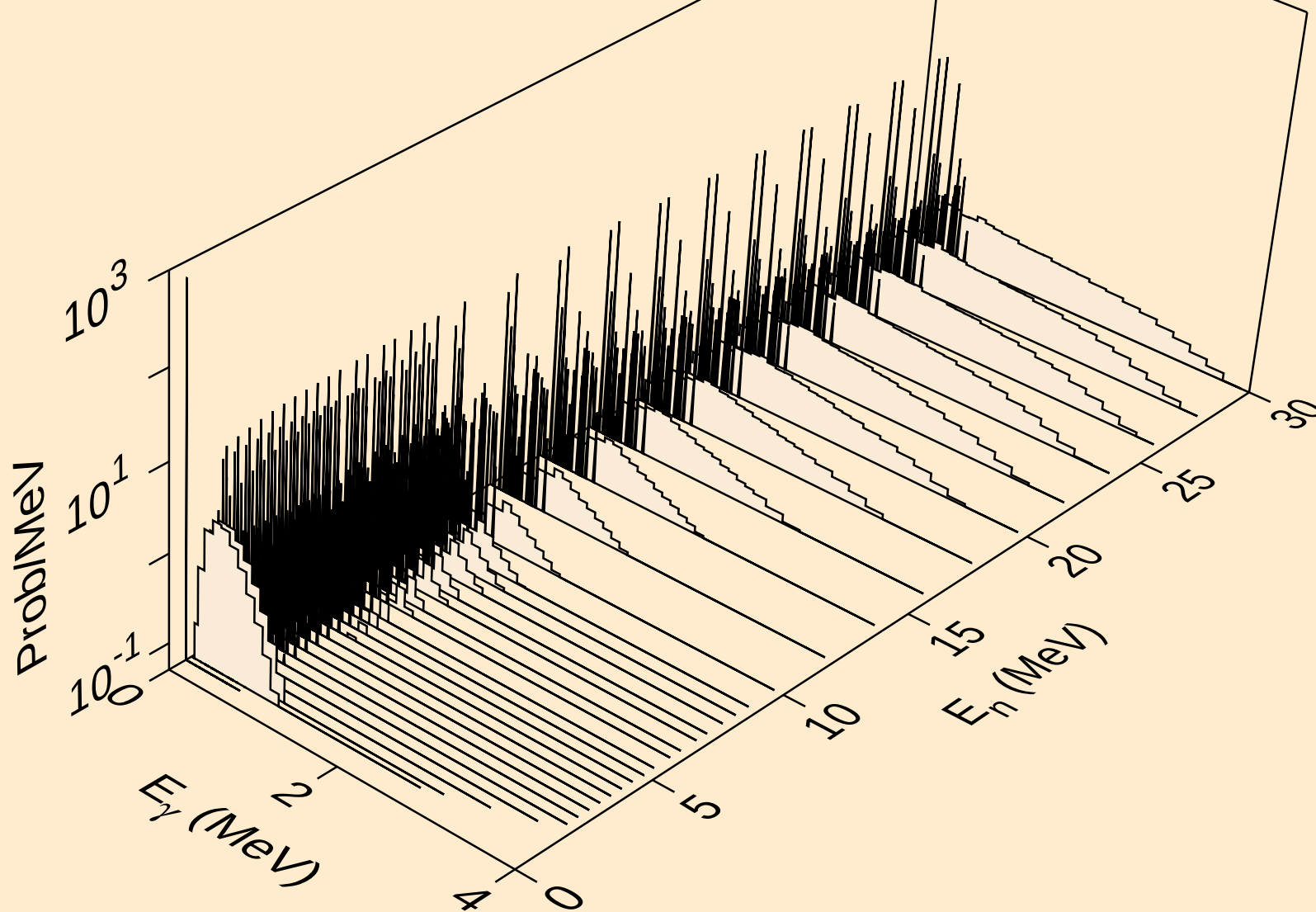
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,3a)



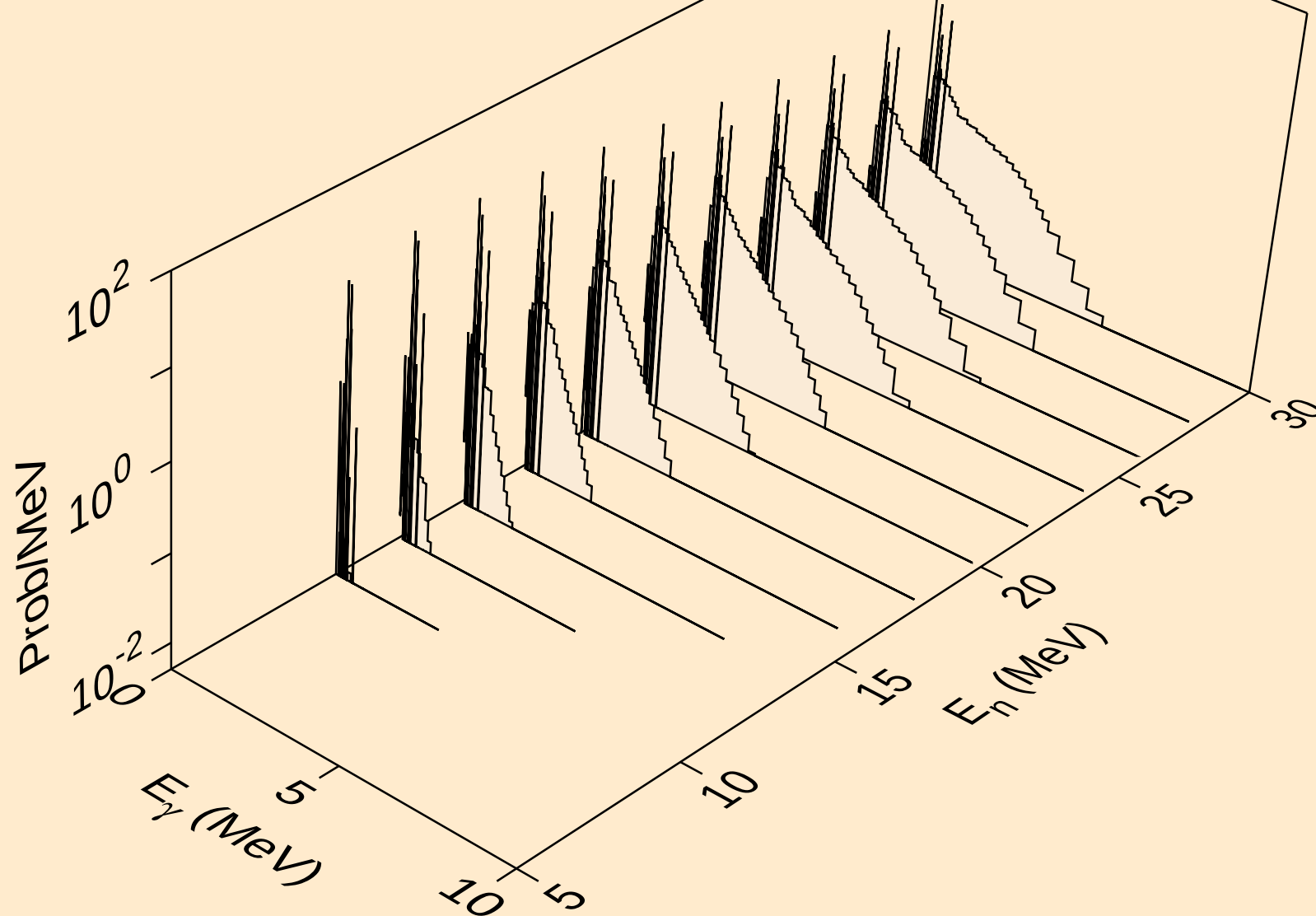
SM139 NEUTRON ACER TENDL-2024 LIBRARY; $T=0.K$
Photon emission for (n,2p)



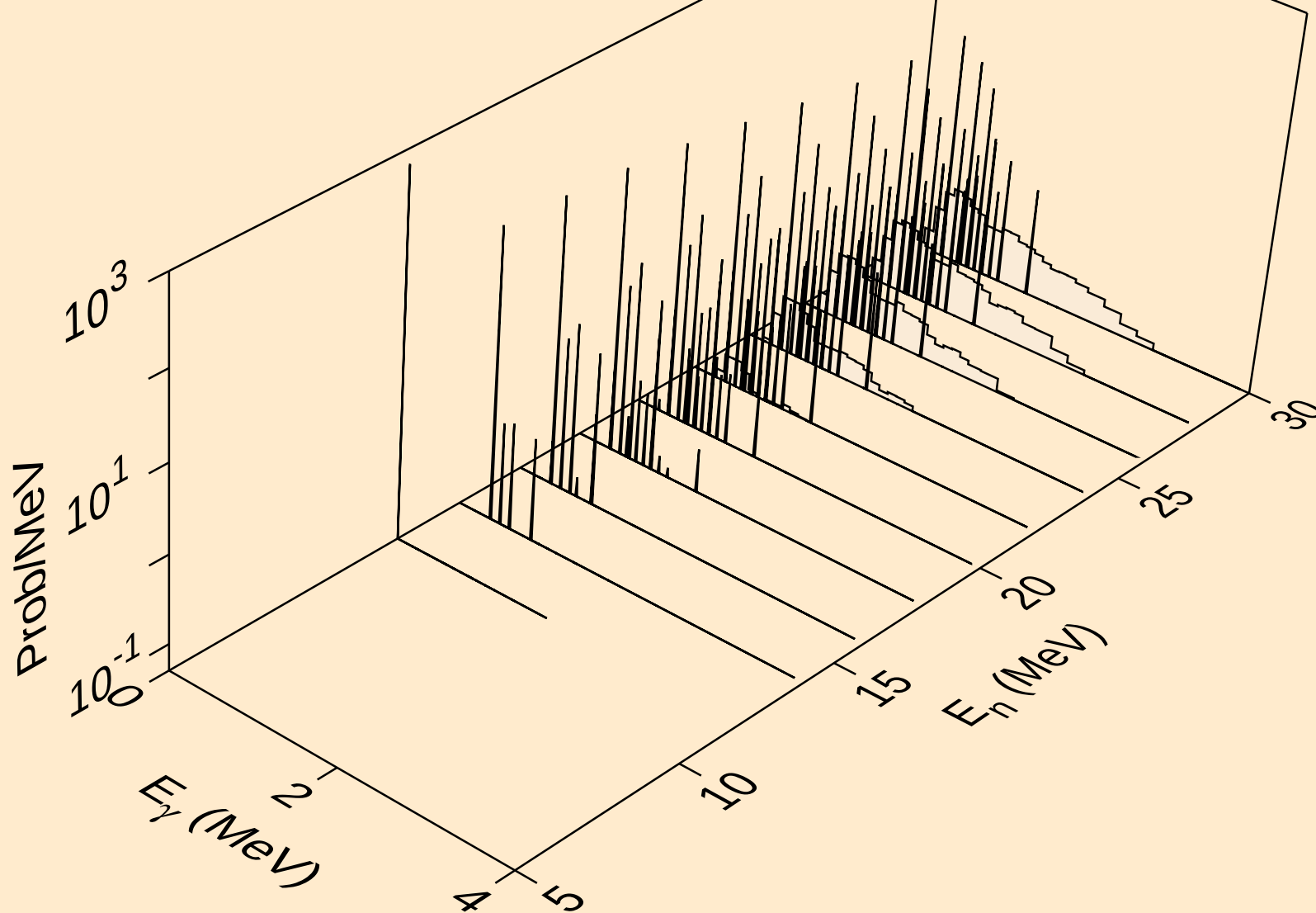
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,p α)



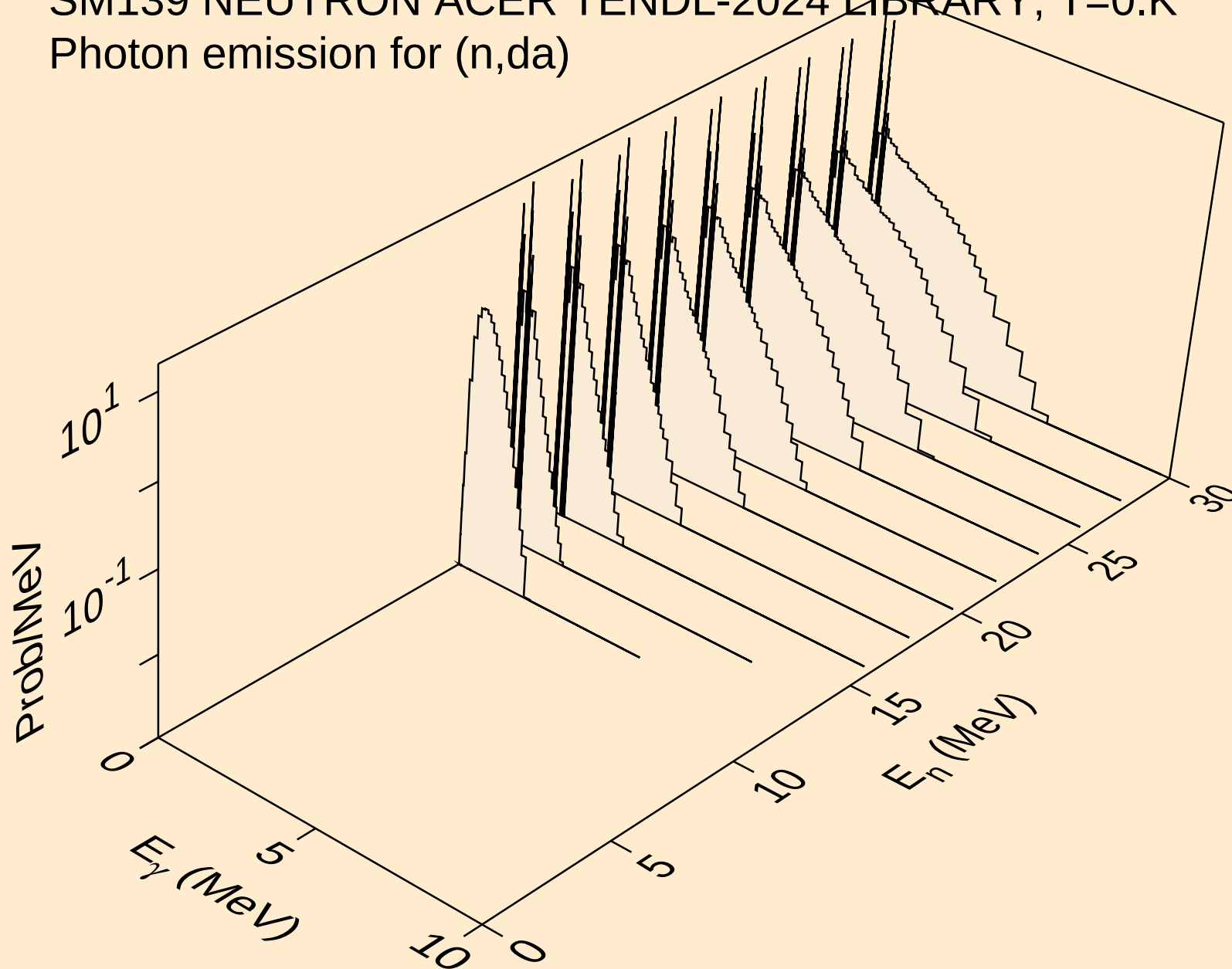
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,pd)



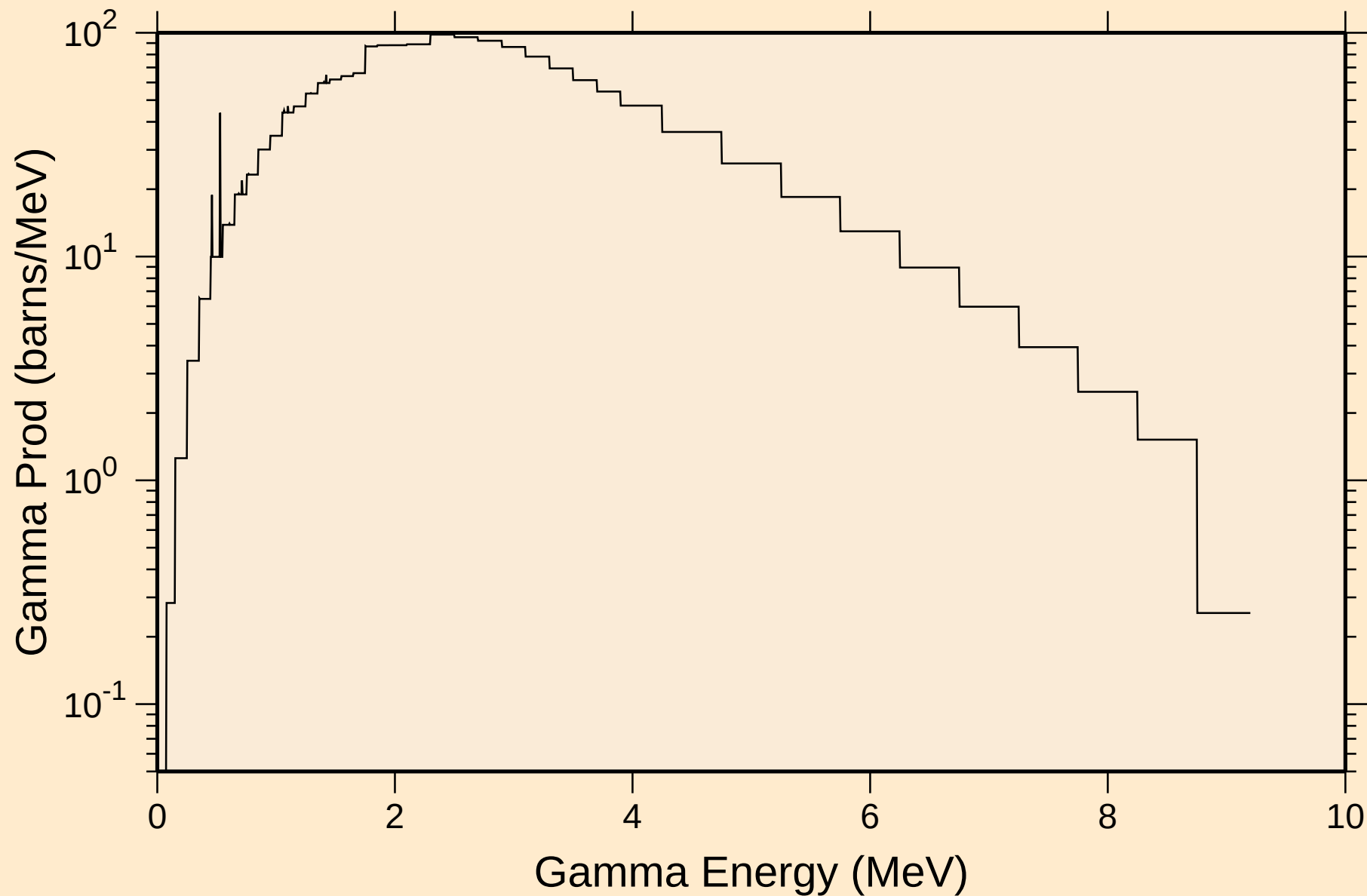
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,pt)



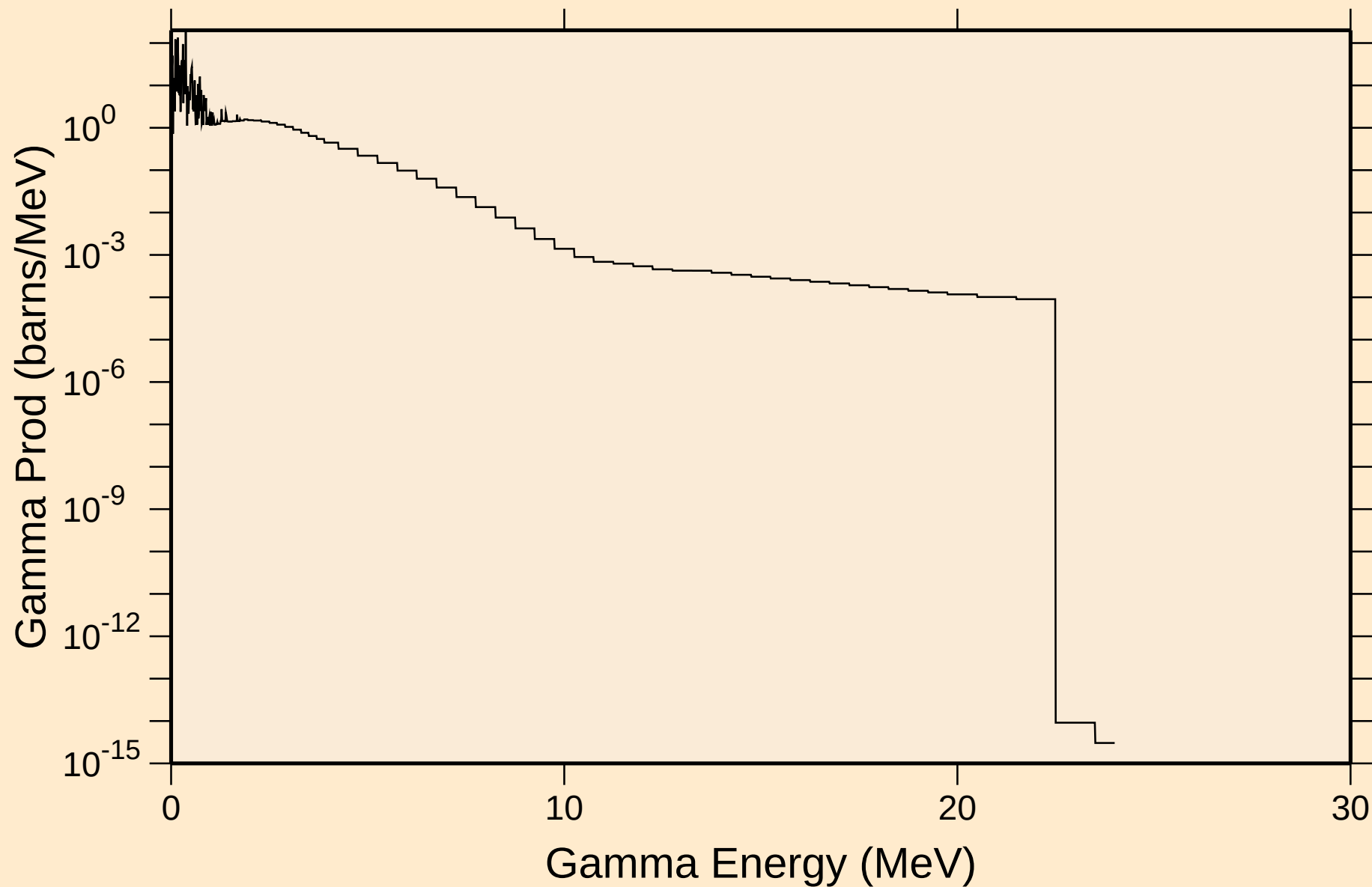
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,da)



SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
thermal capture photon spectrum

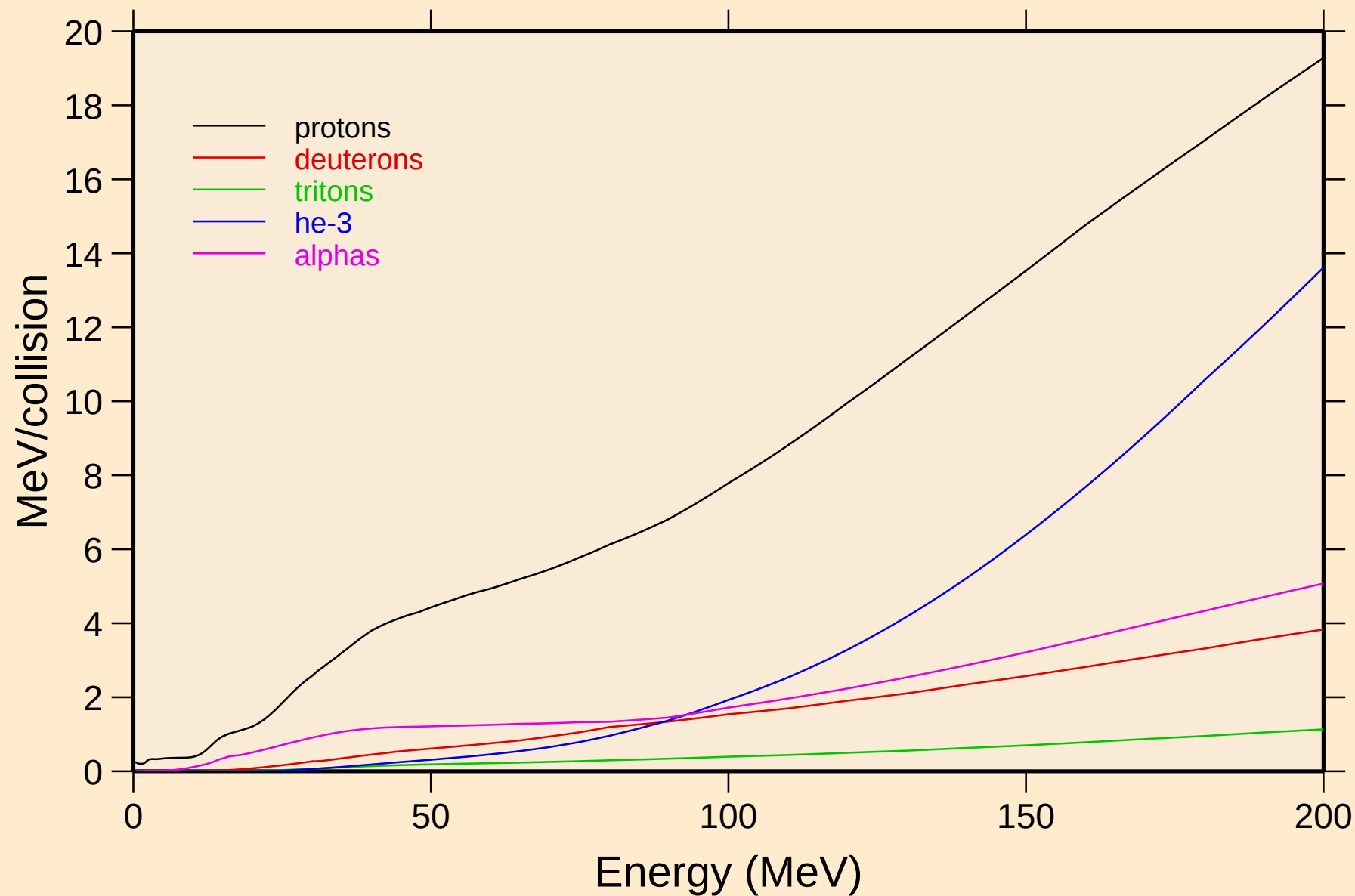


SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
14 MeV photon spectrum

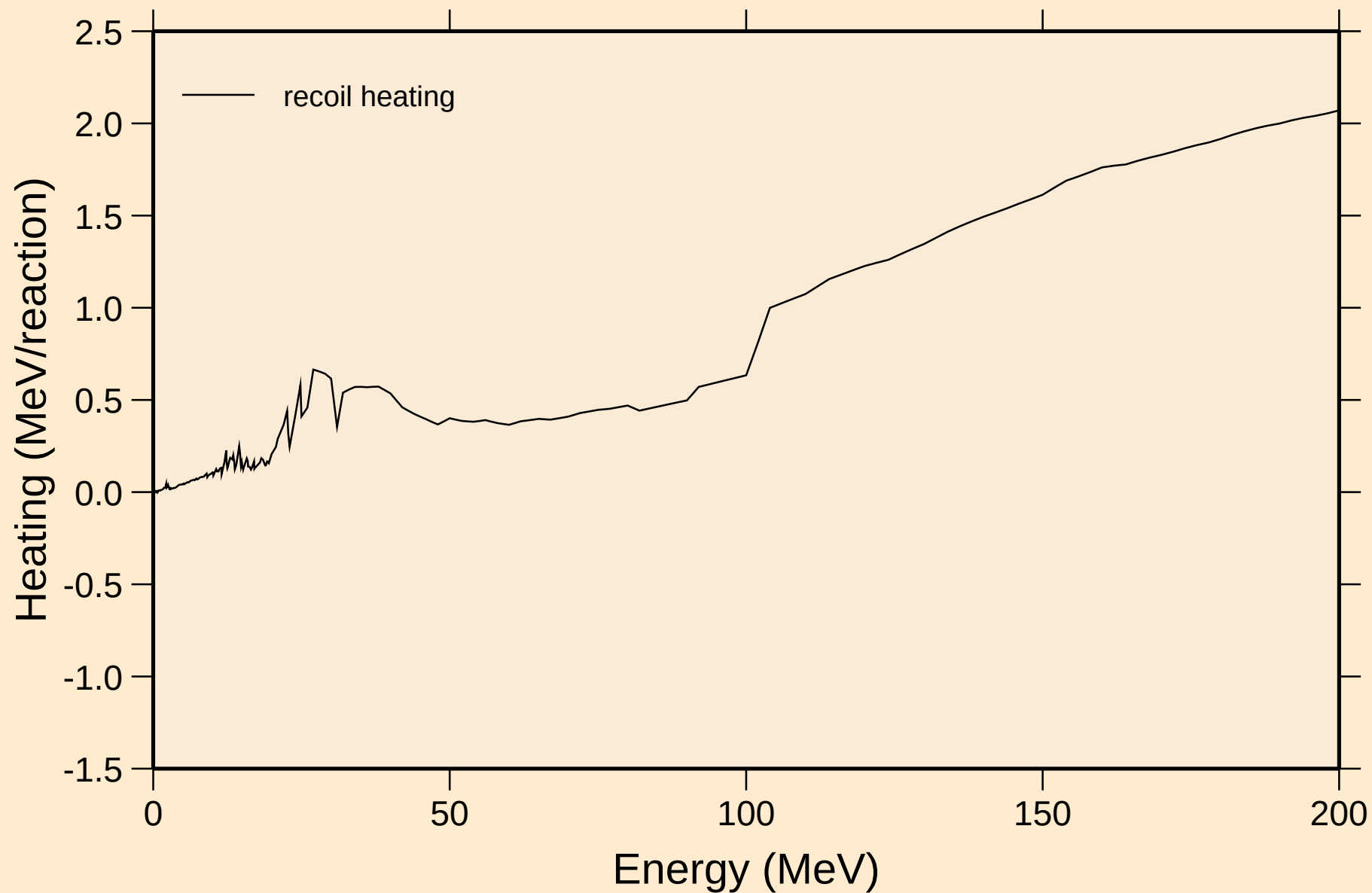


SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

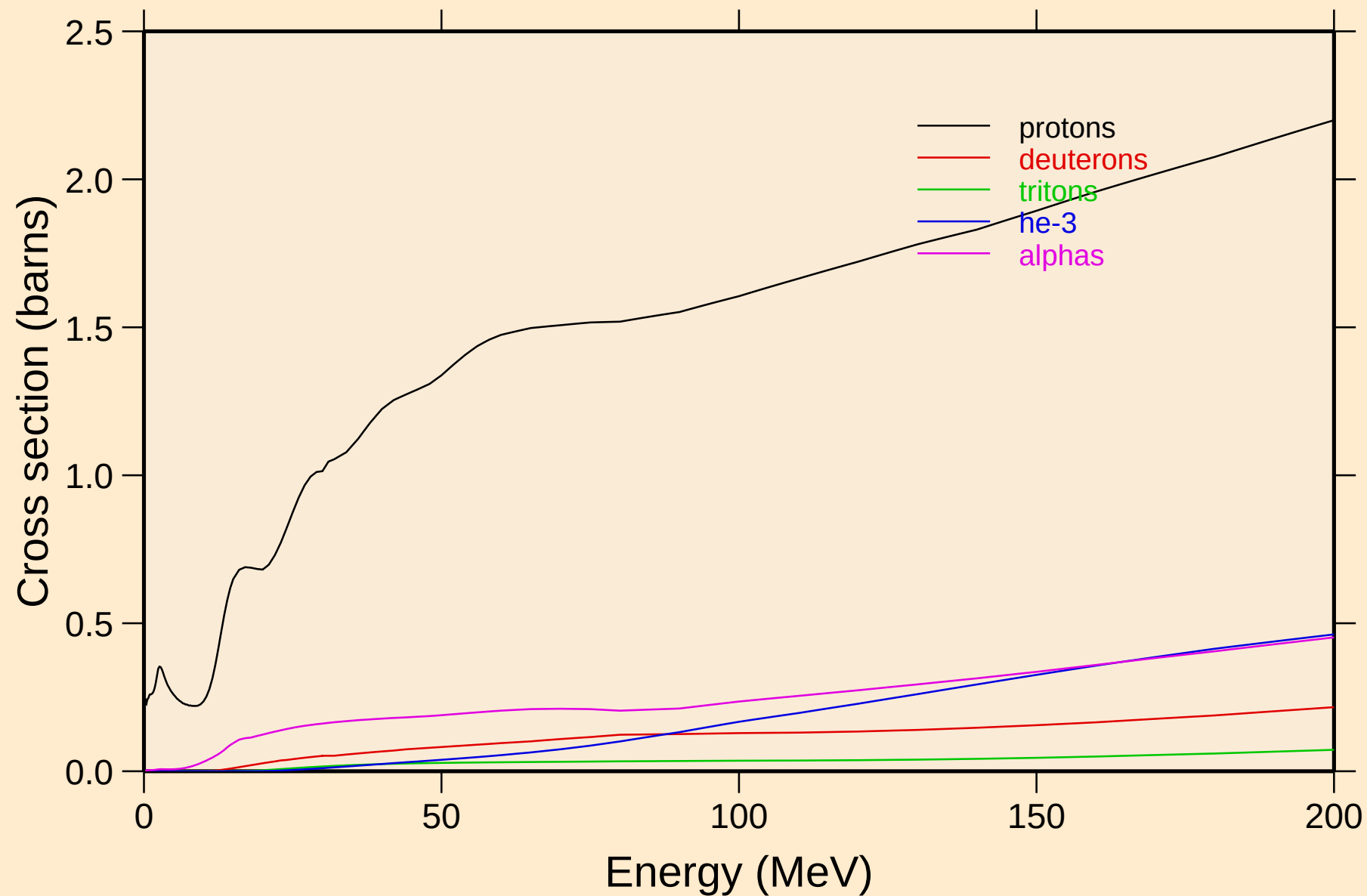
Particle heating contributions



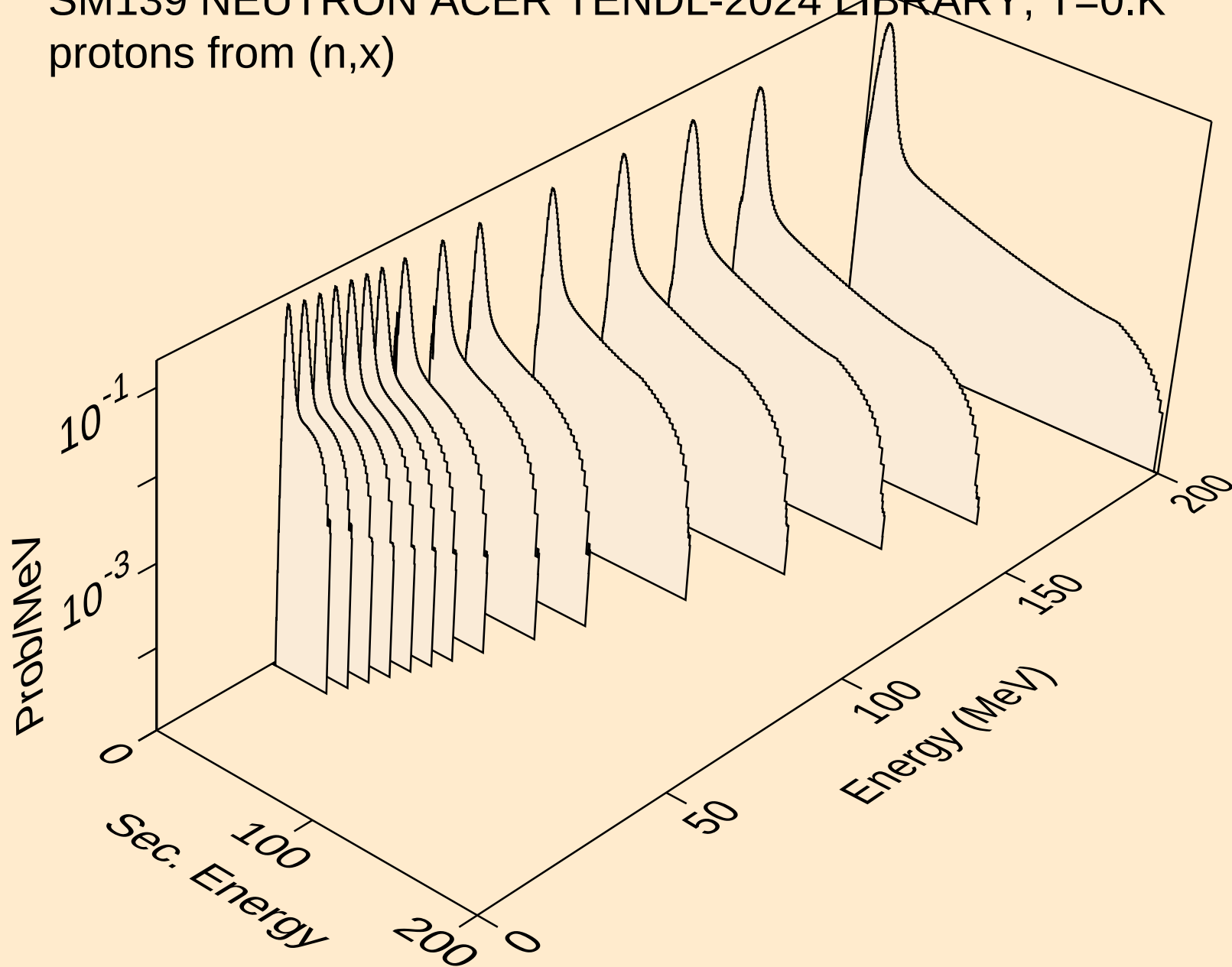
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Recoil Heating



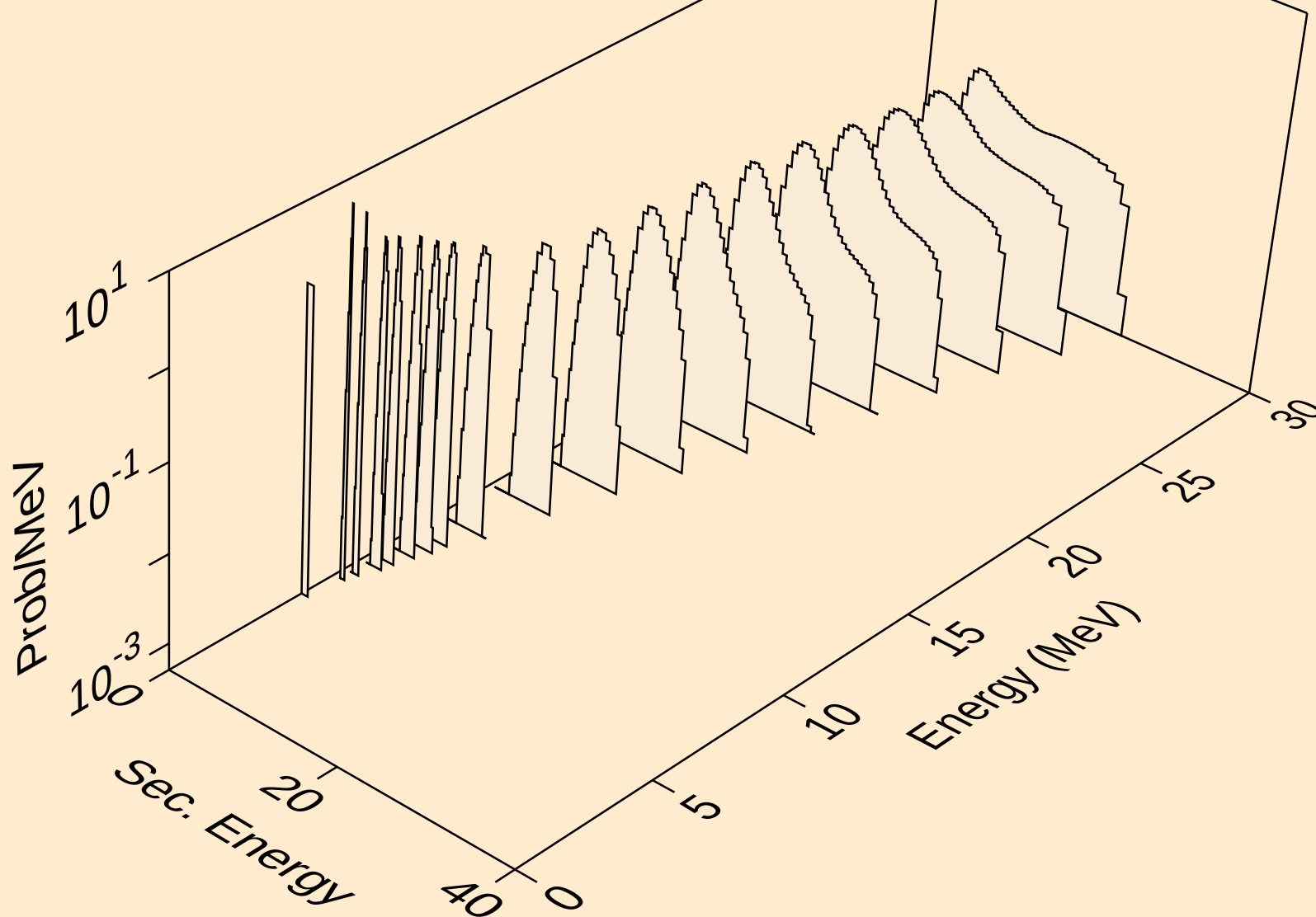
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
Particle production cross sections



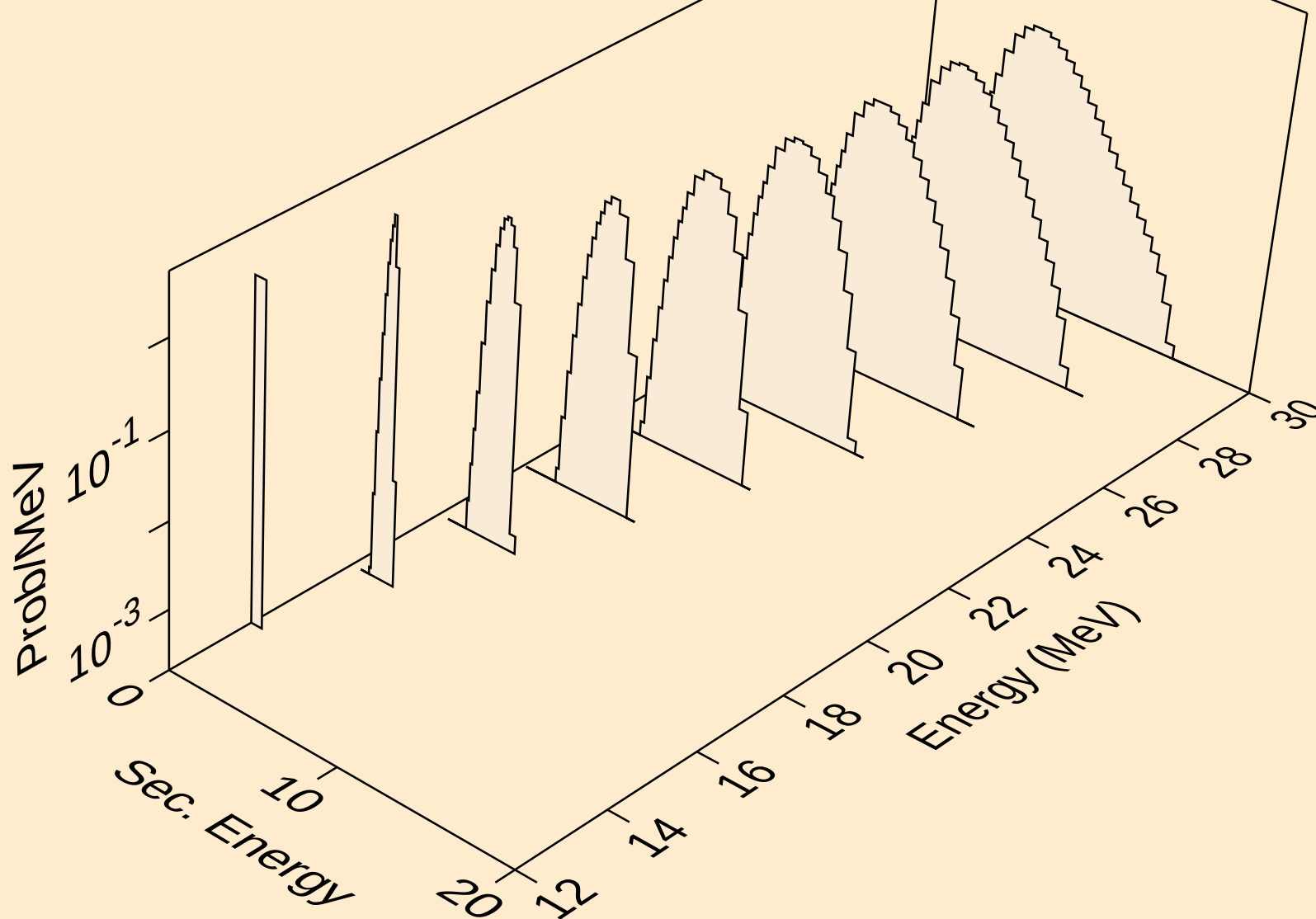
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
protons from (n,x)



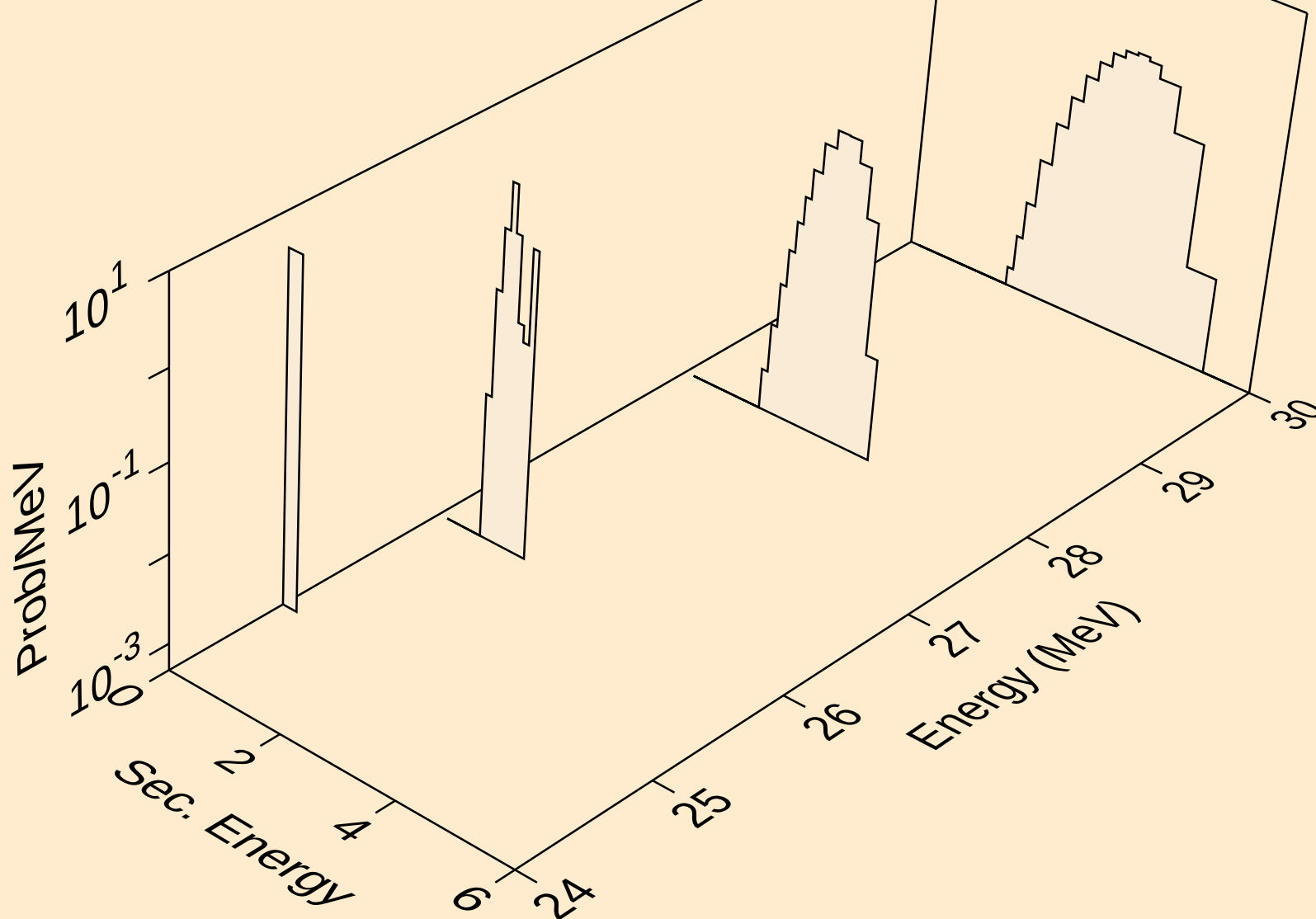
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
protons from (n,n*)p



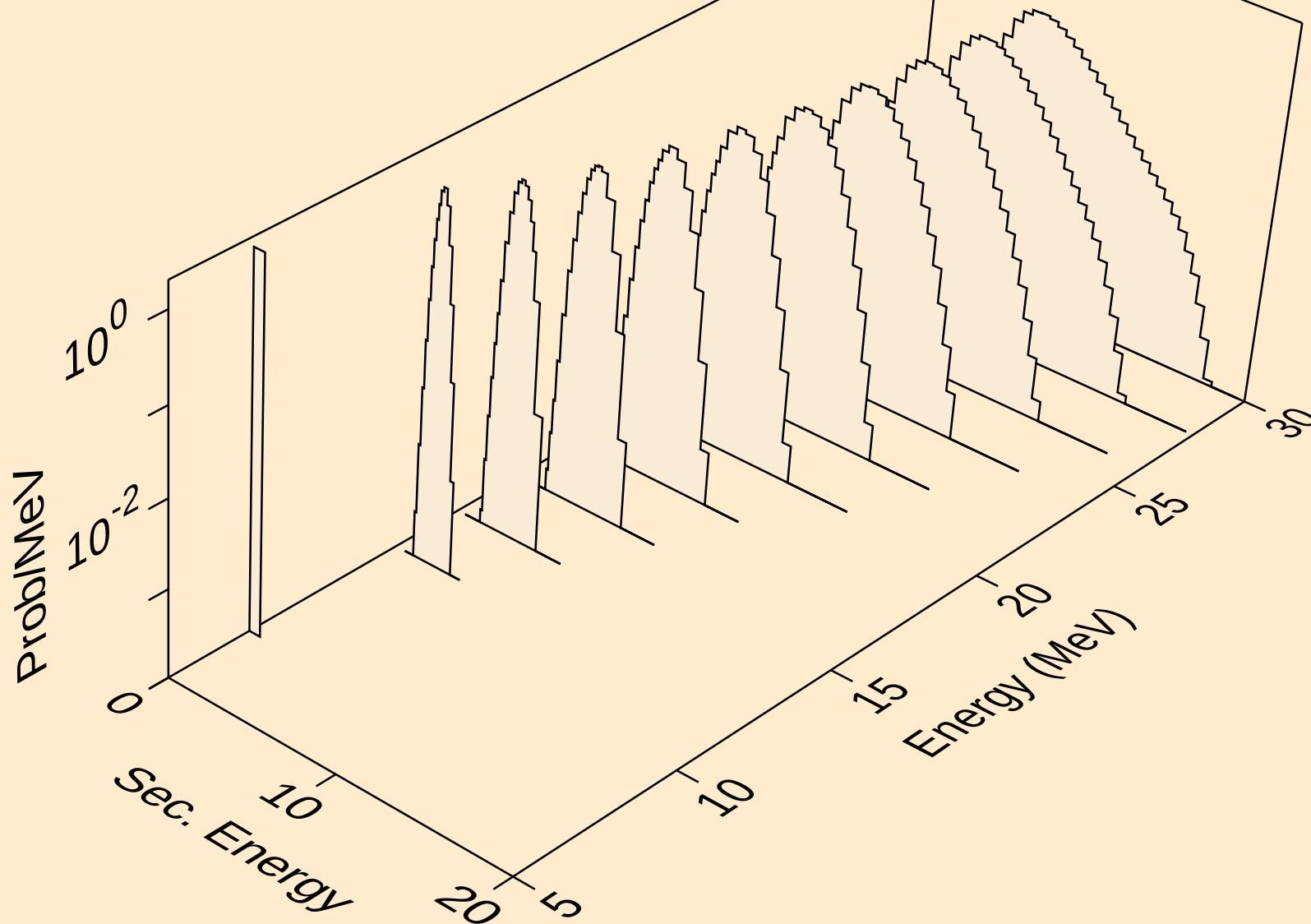
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
protons from (n,2np)



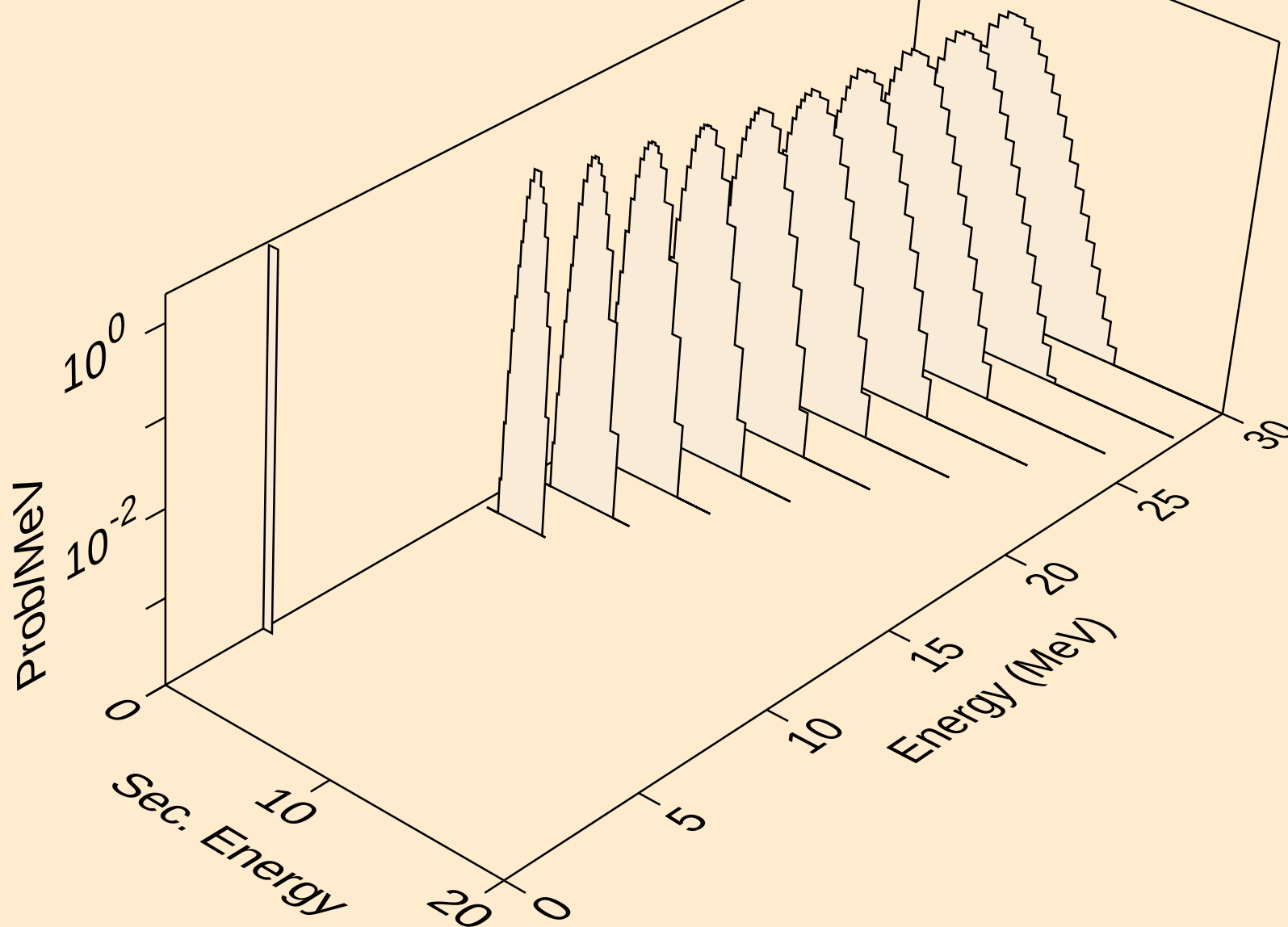
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
protons from (n,3np)



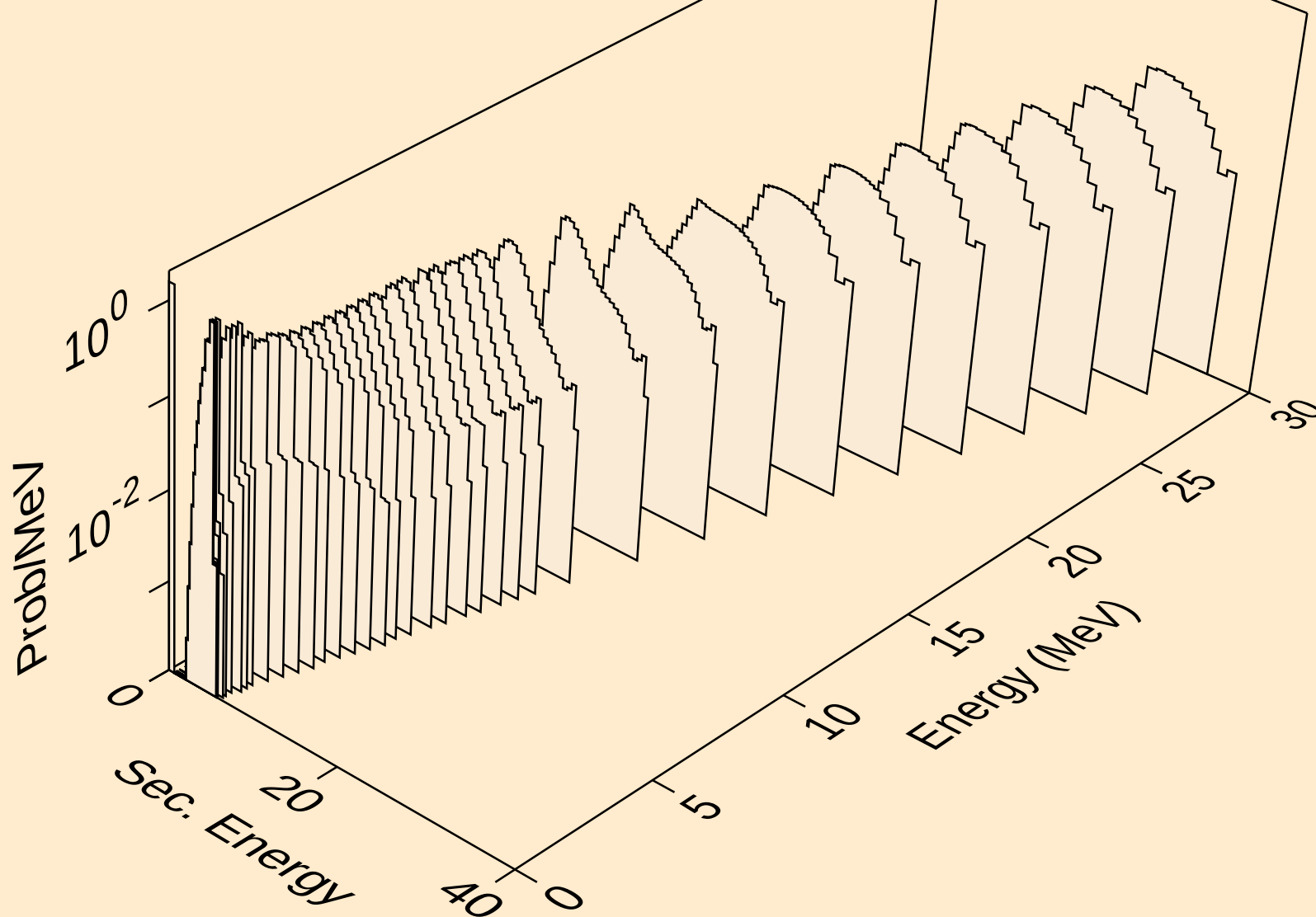
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protons from (n,n2p)



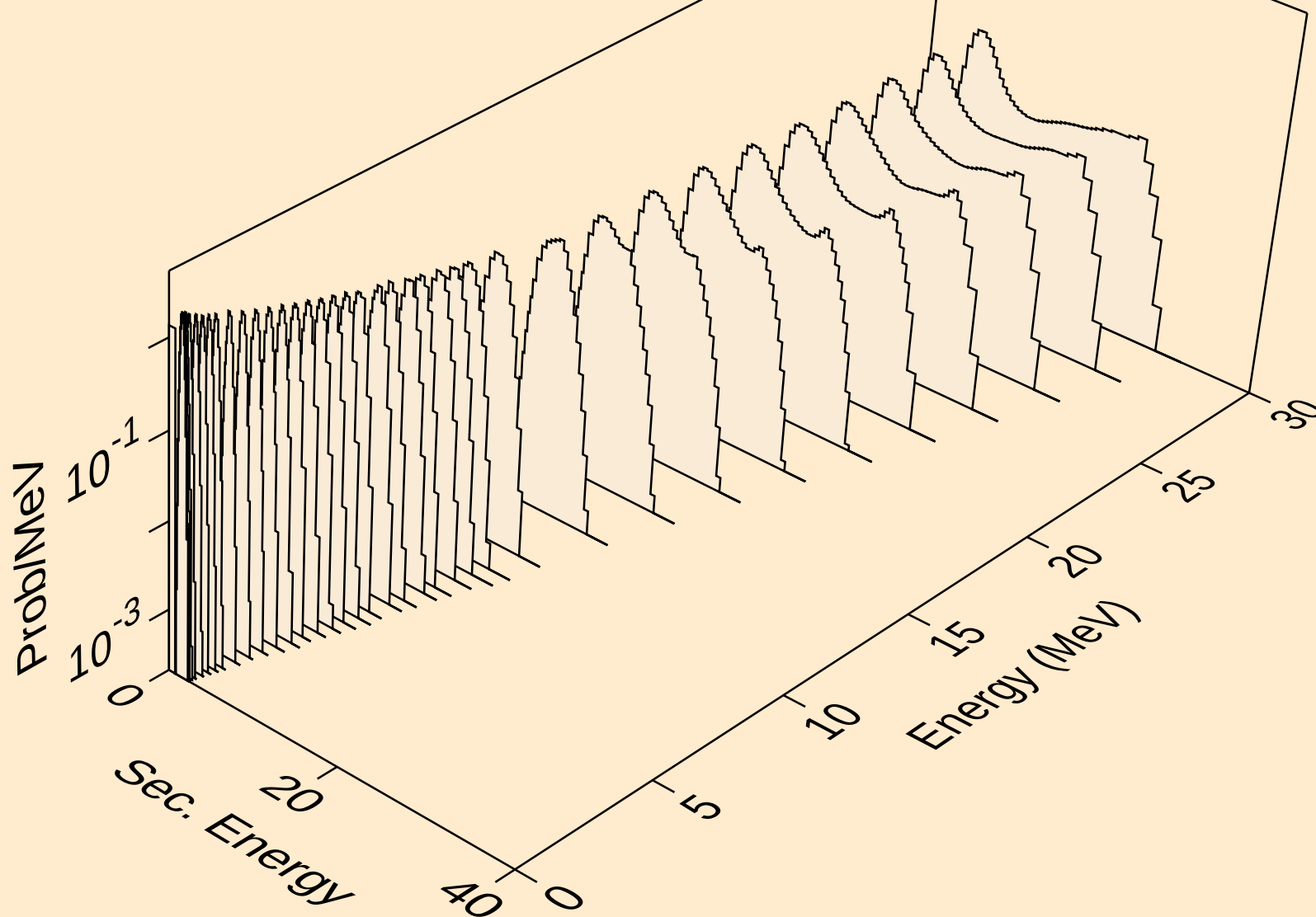
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protons from (n,npa)



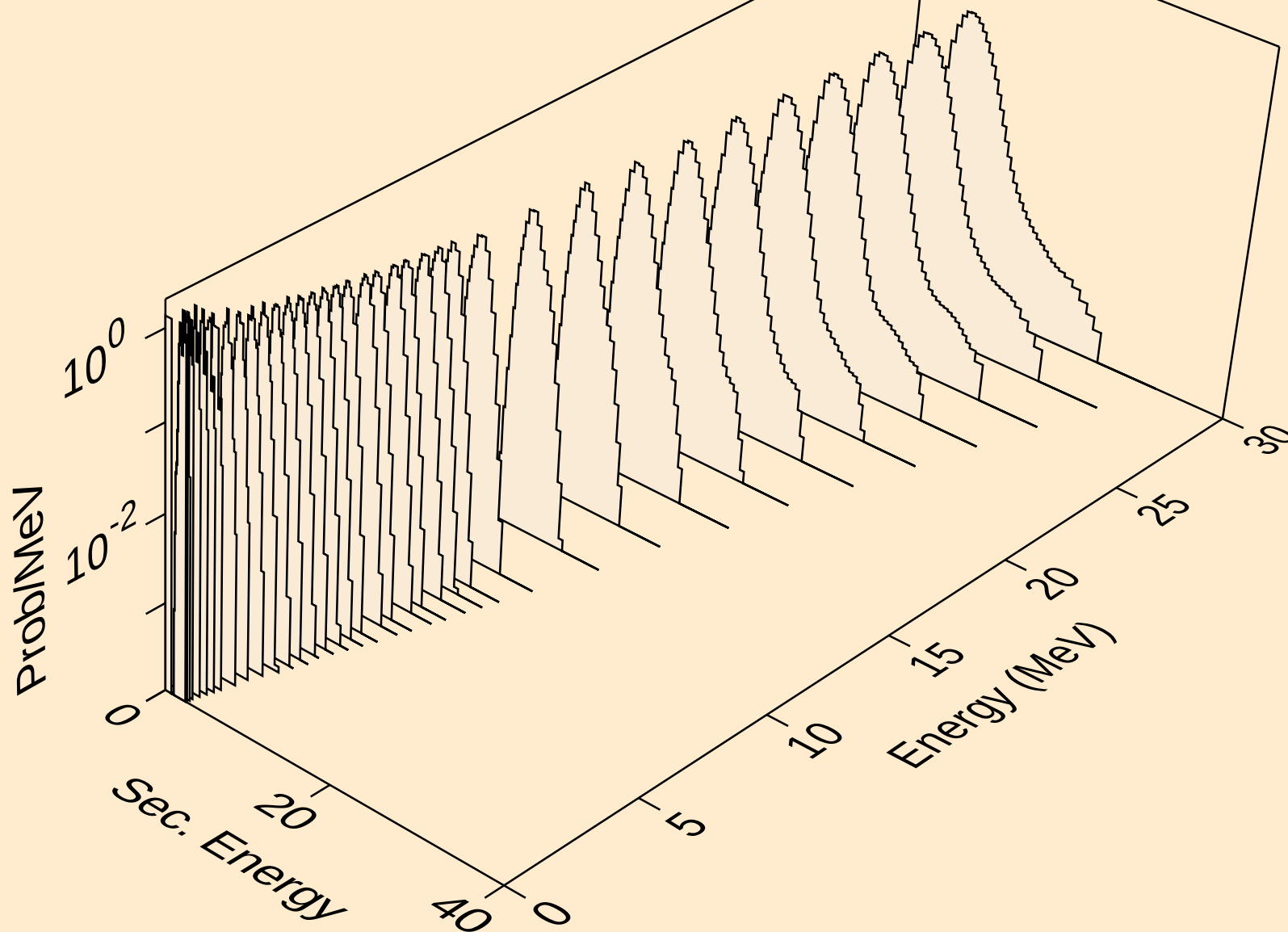
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protons from (n,p)



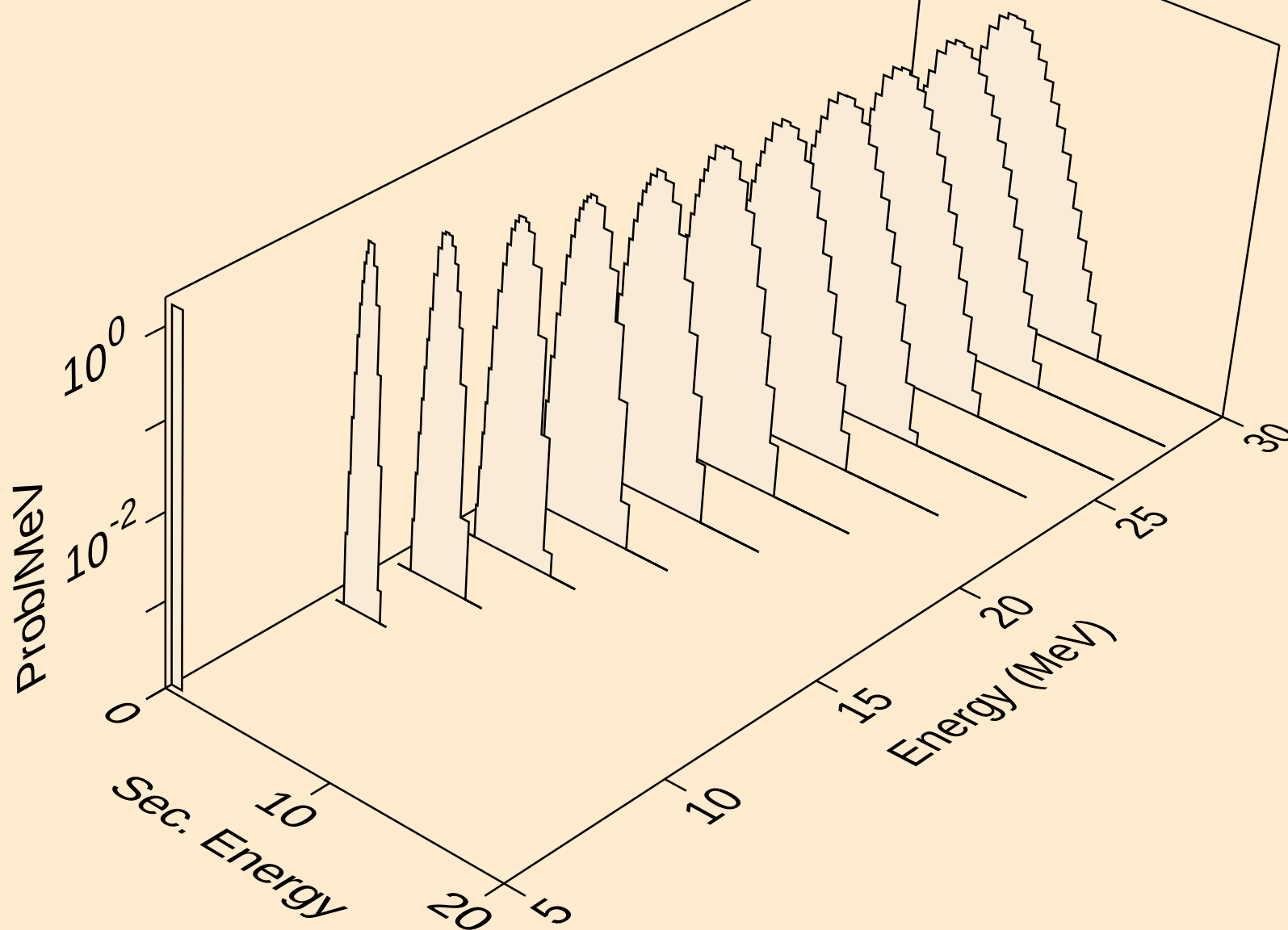
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protons from (n,2p)



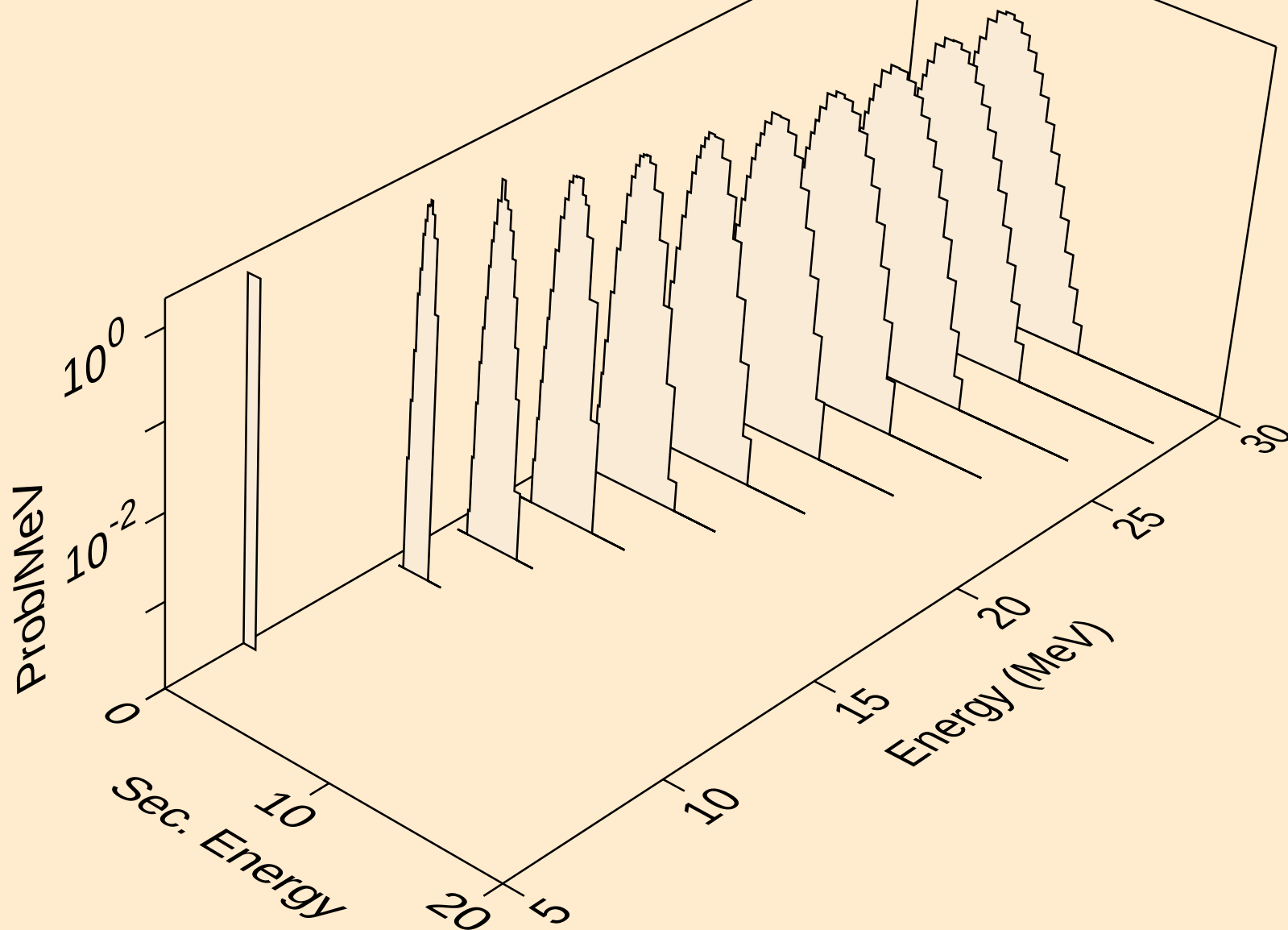
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protons from (n,p)



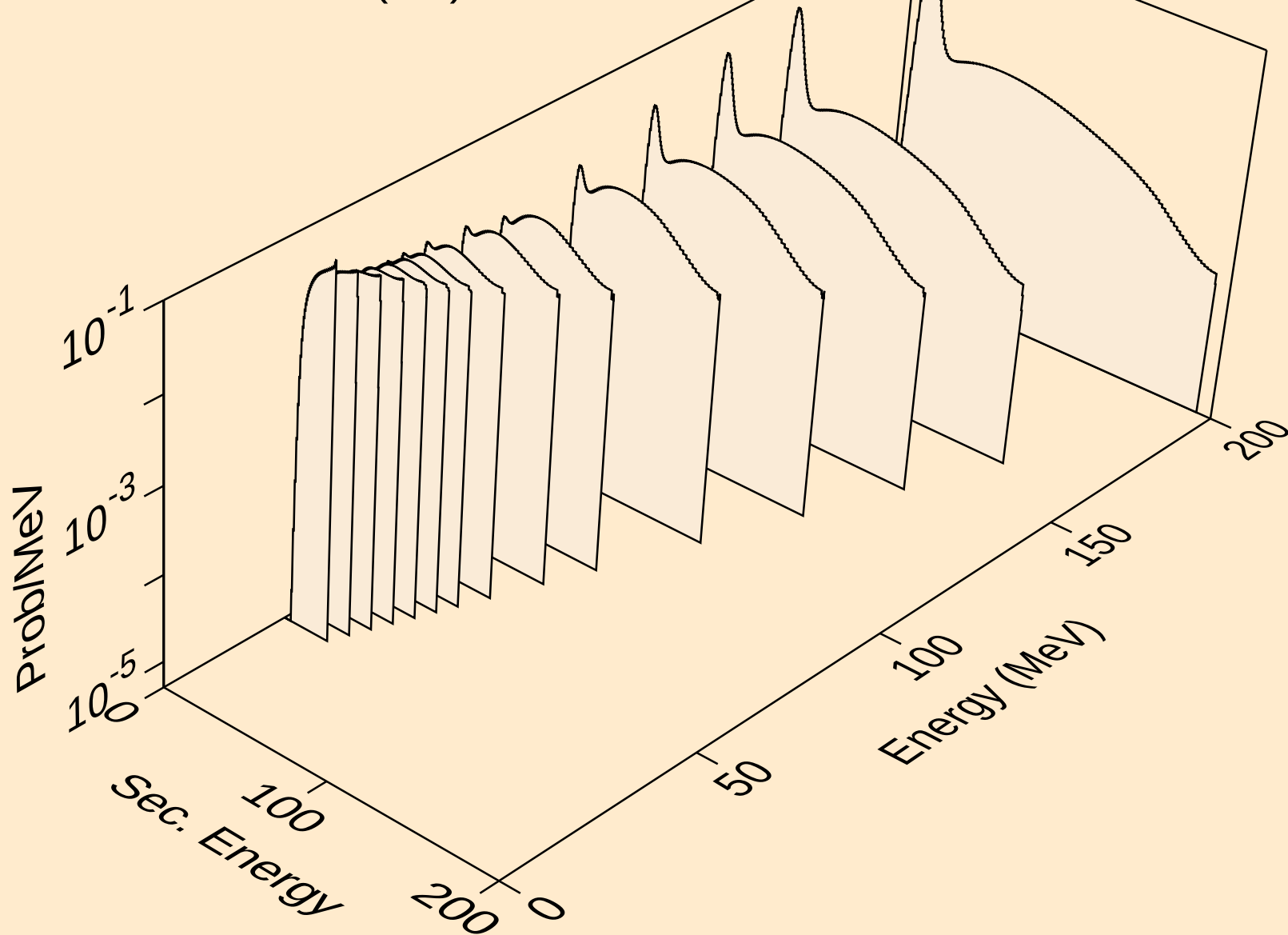
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protons from (n,pd)



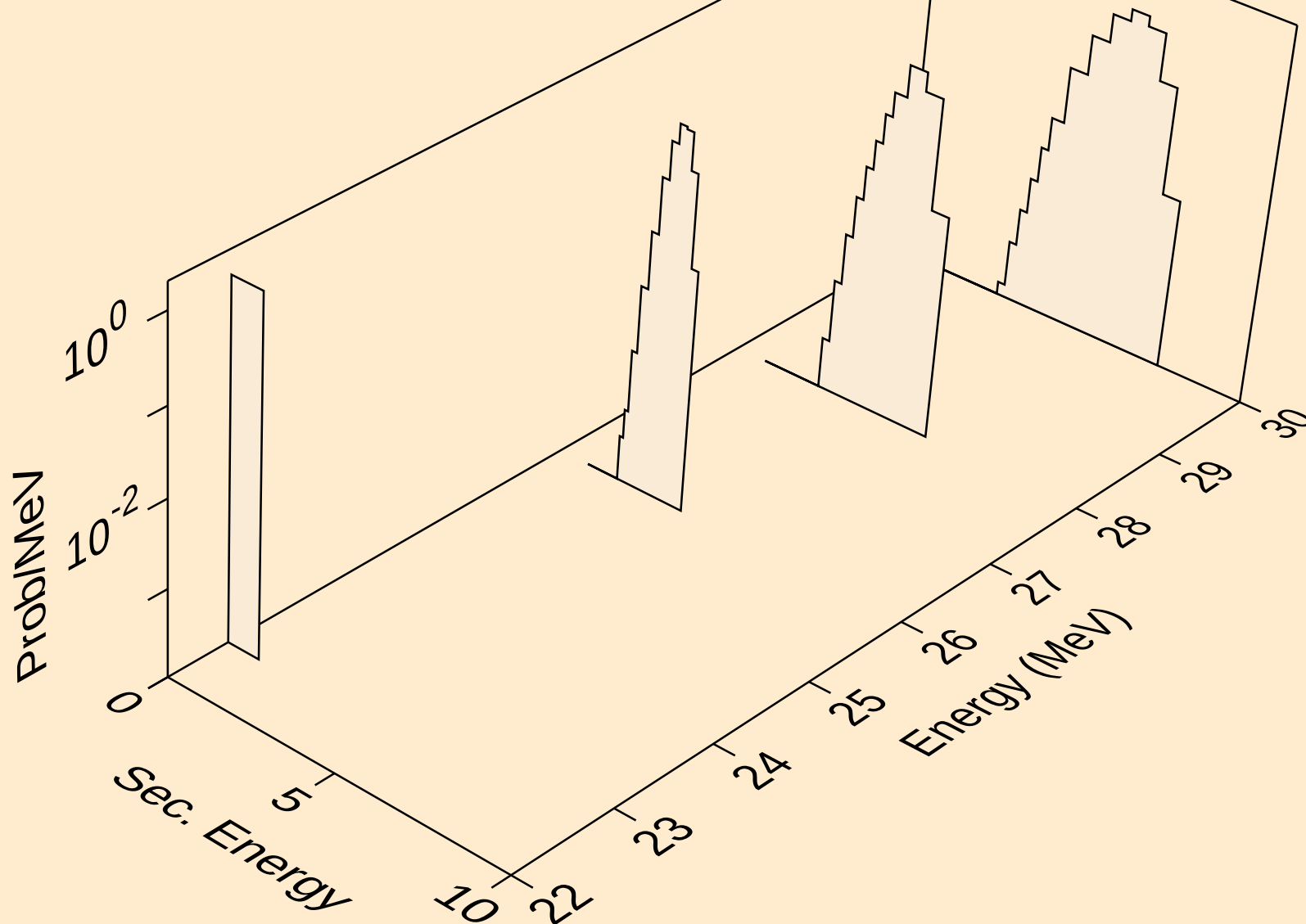
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
protons from (n,pt)



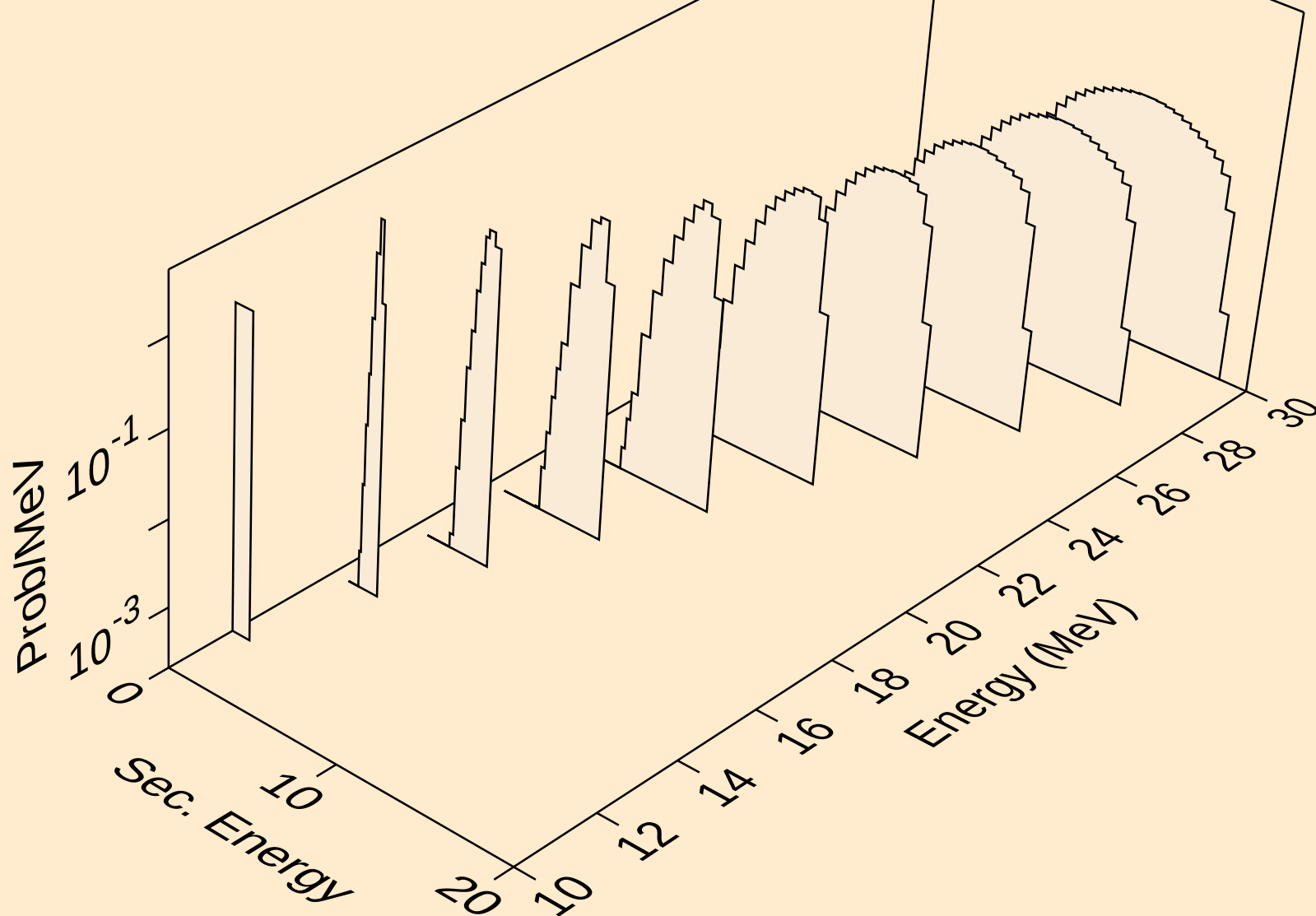
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
deuterons from (n,x)



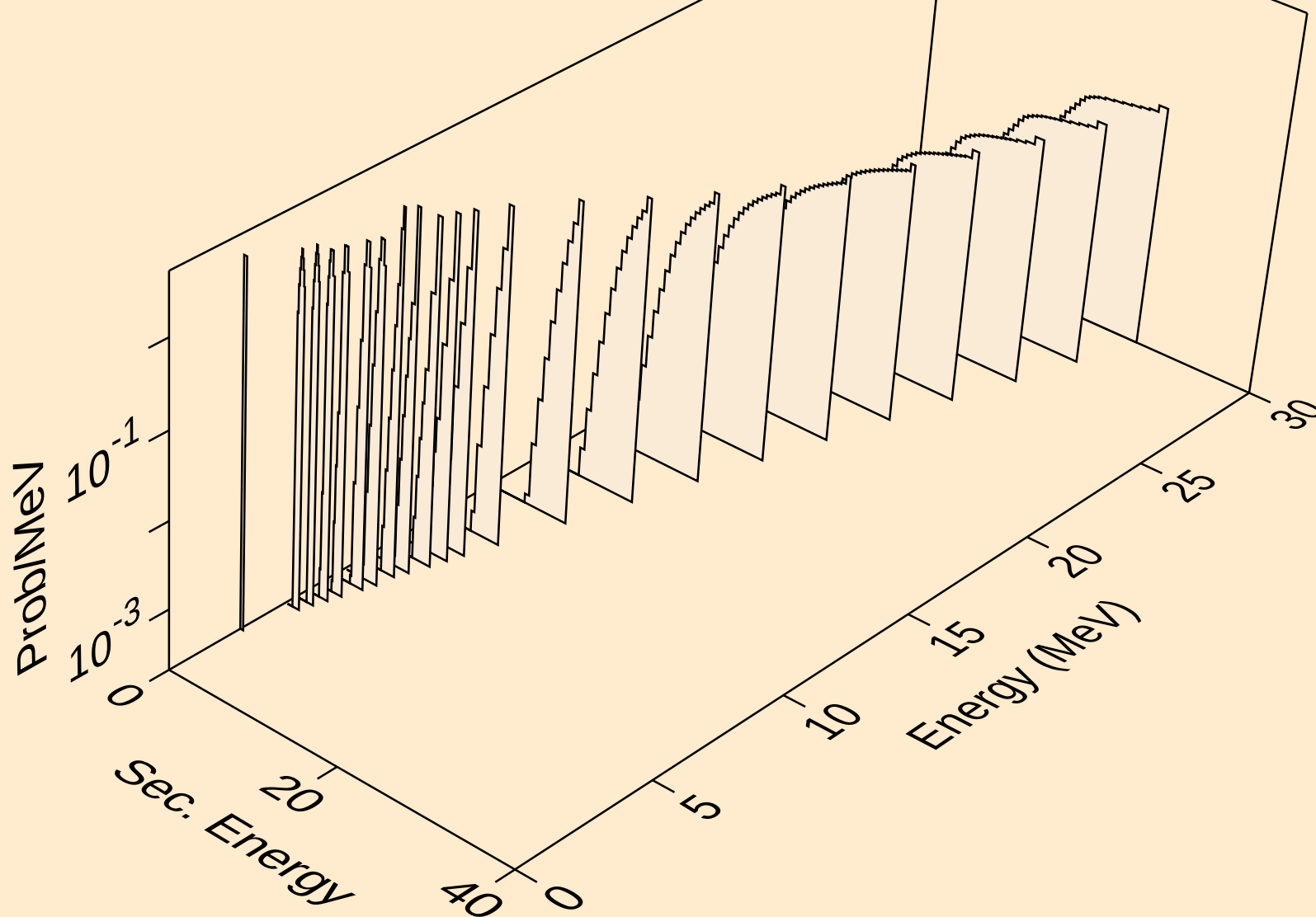
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
deuterons from (n,2nd)



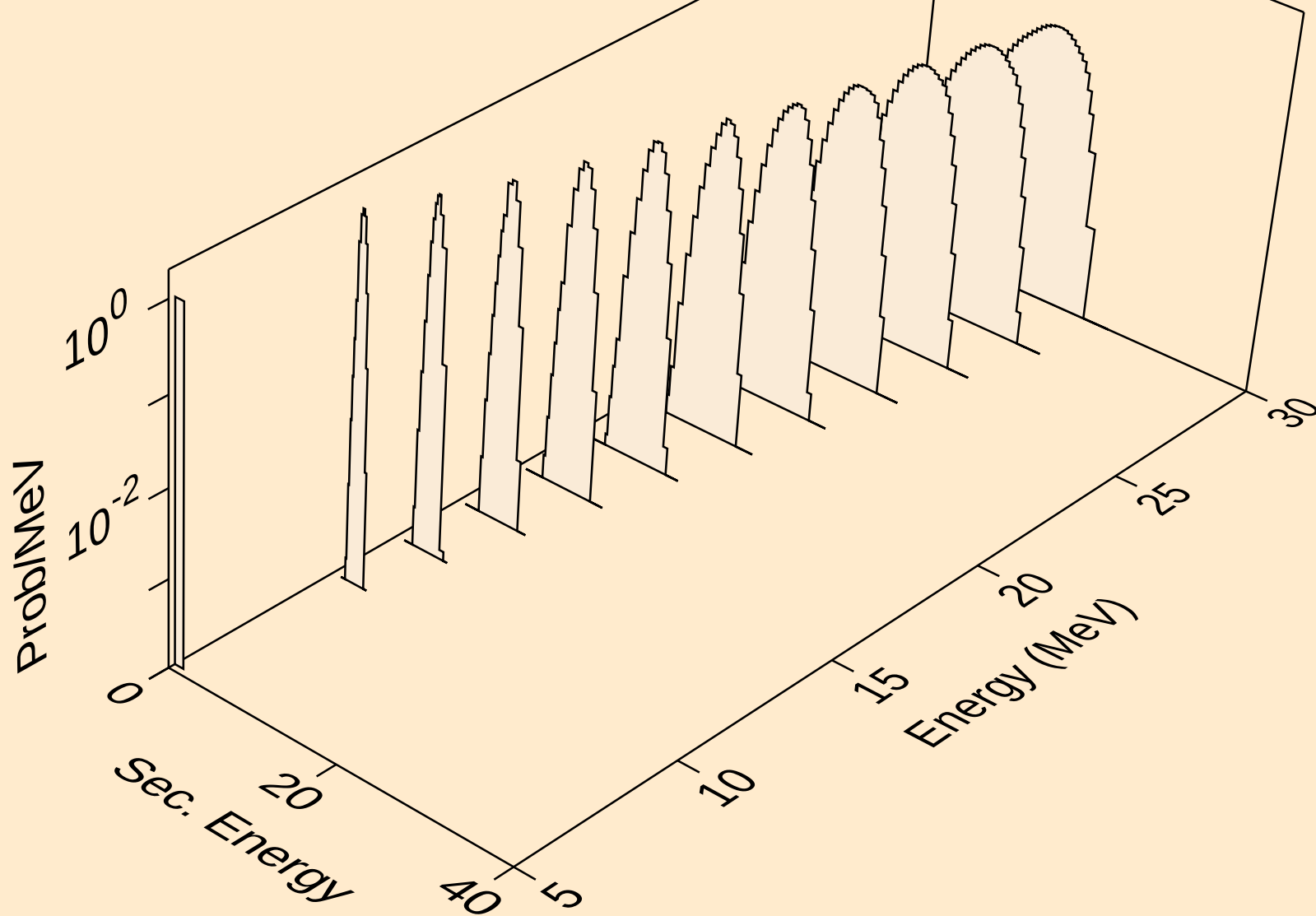
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
deuterons from (n,n*)d



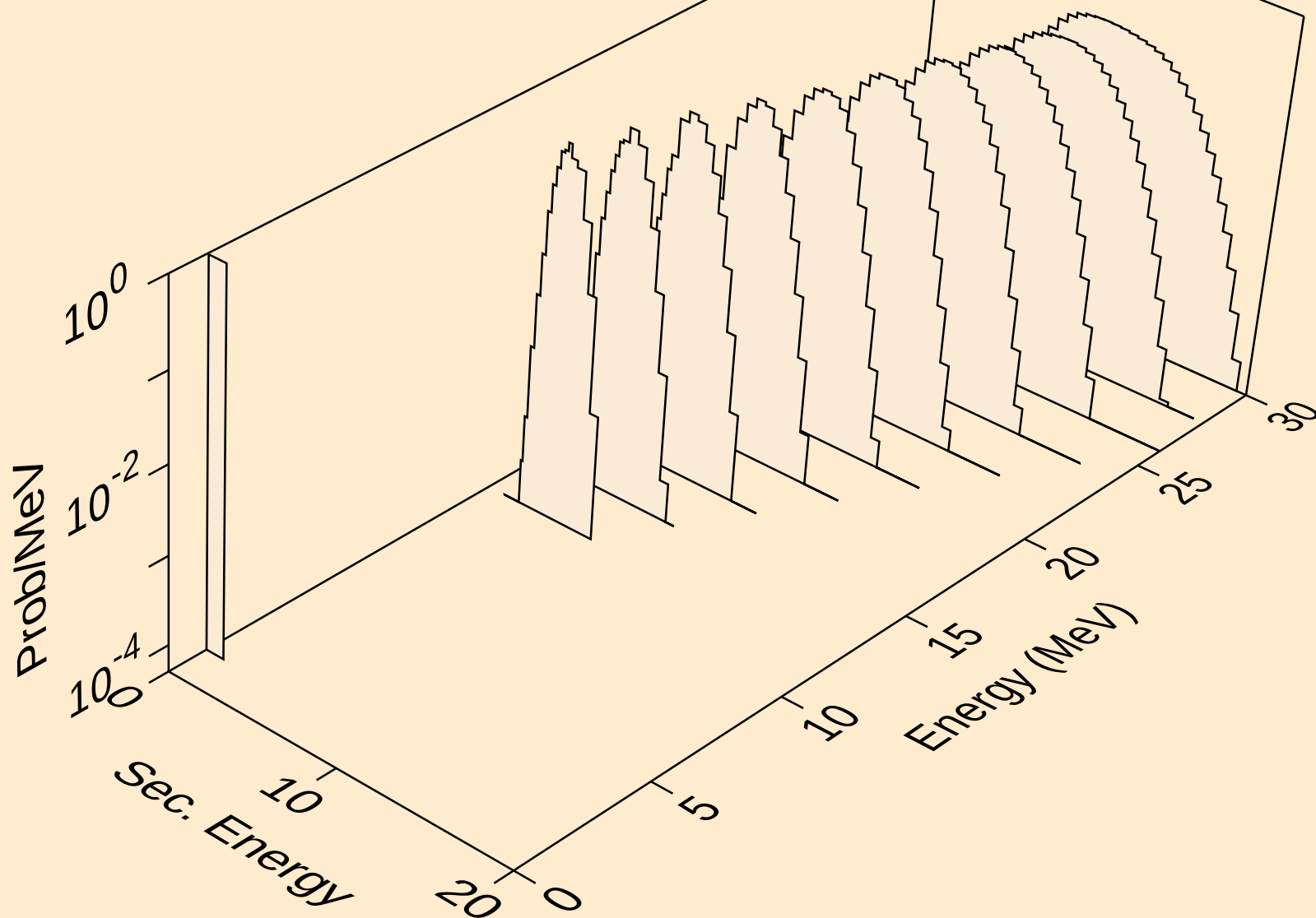
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deuterons from (n,d)



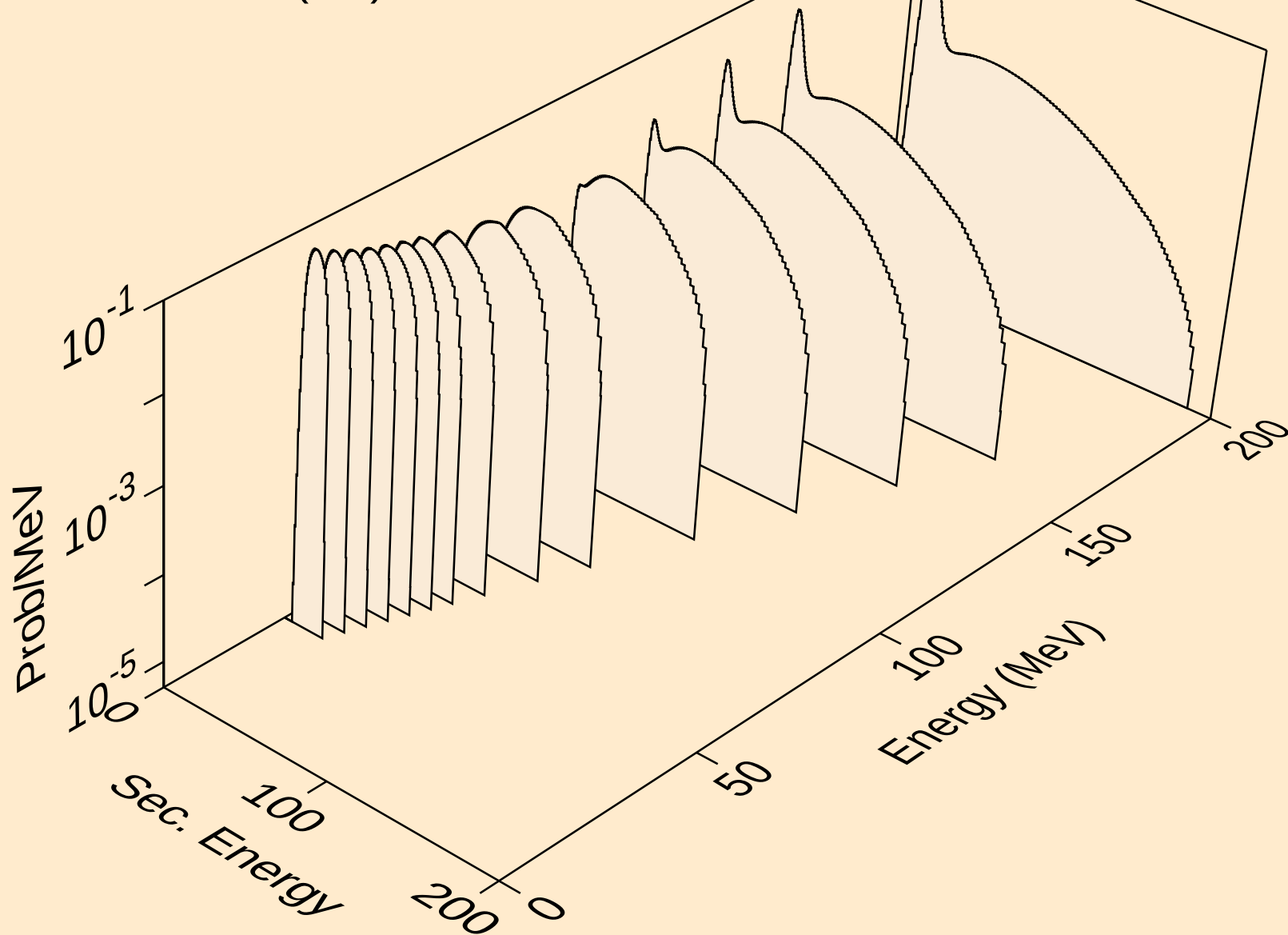
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deuterons from (n,pd)



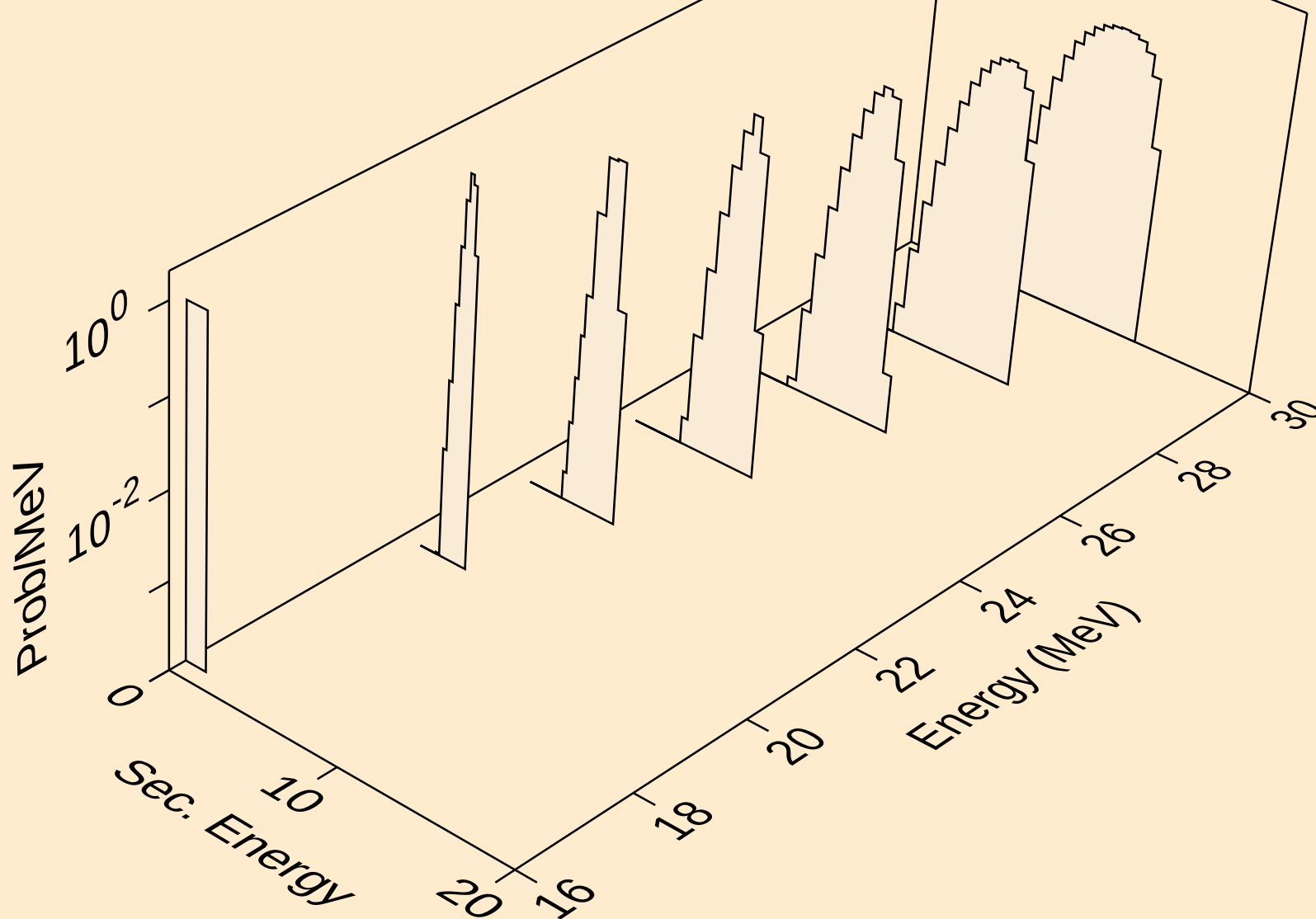
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deuterons from (n,da)



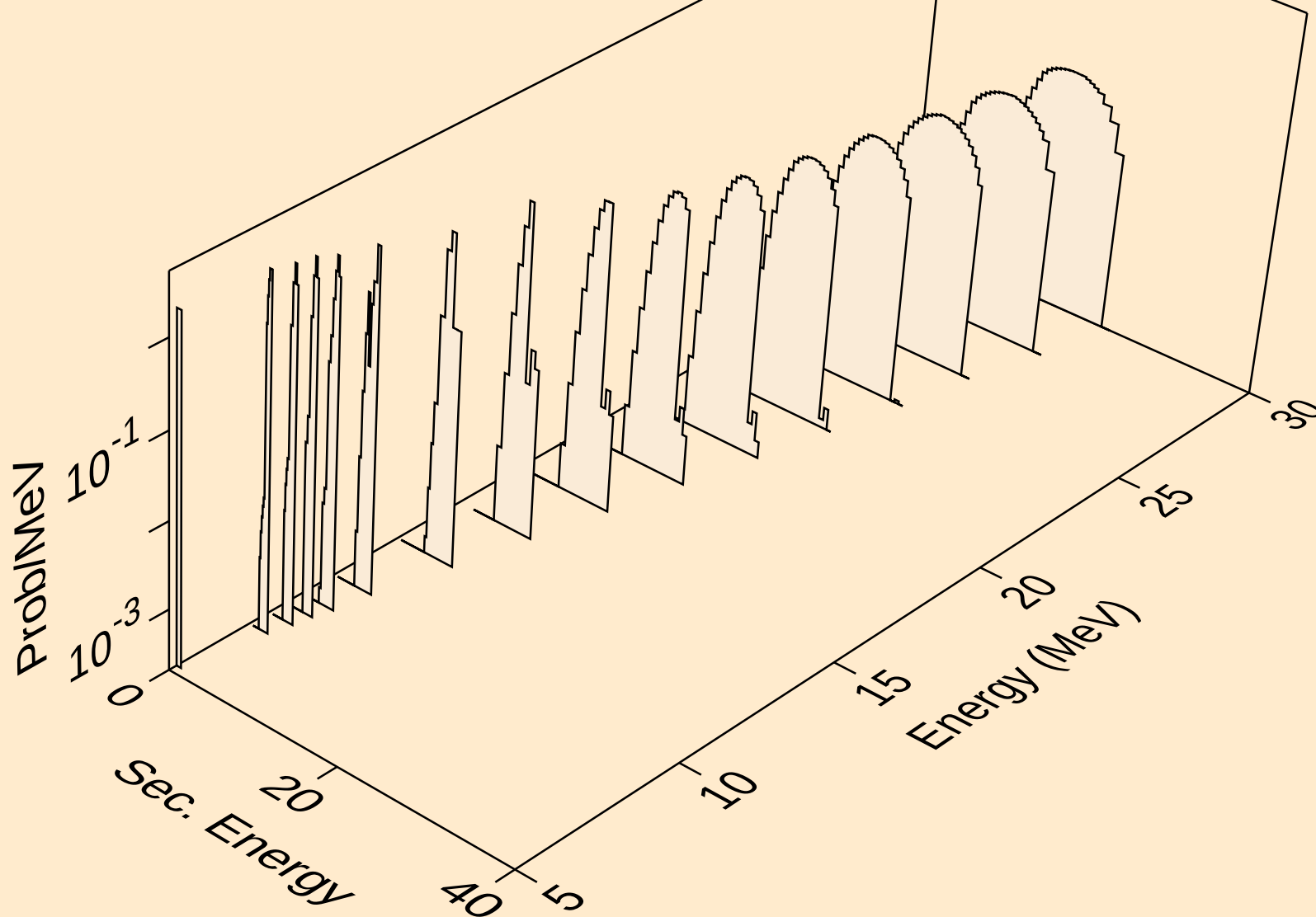
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tritons from (n,x)



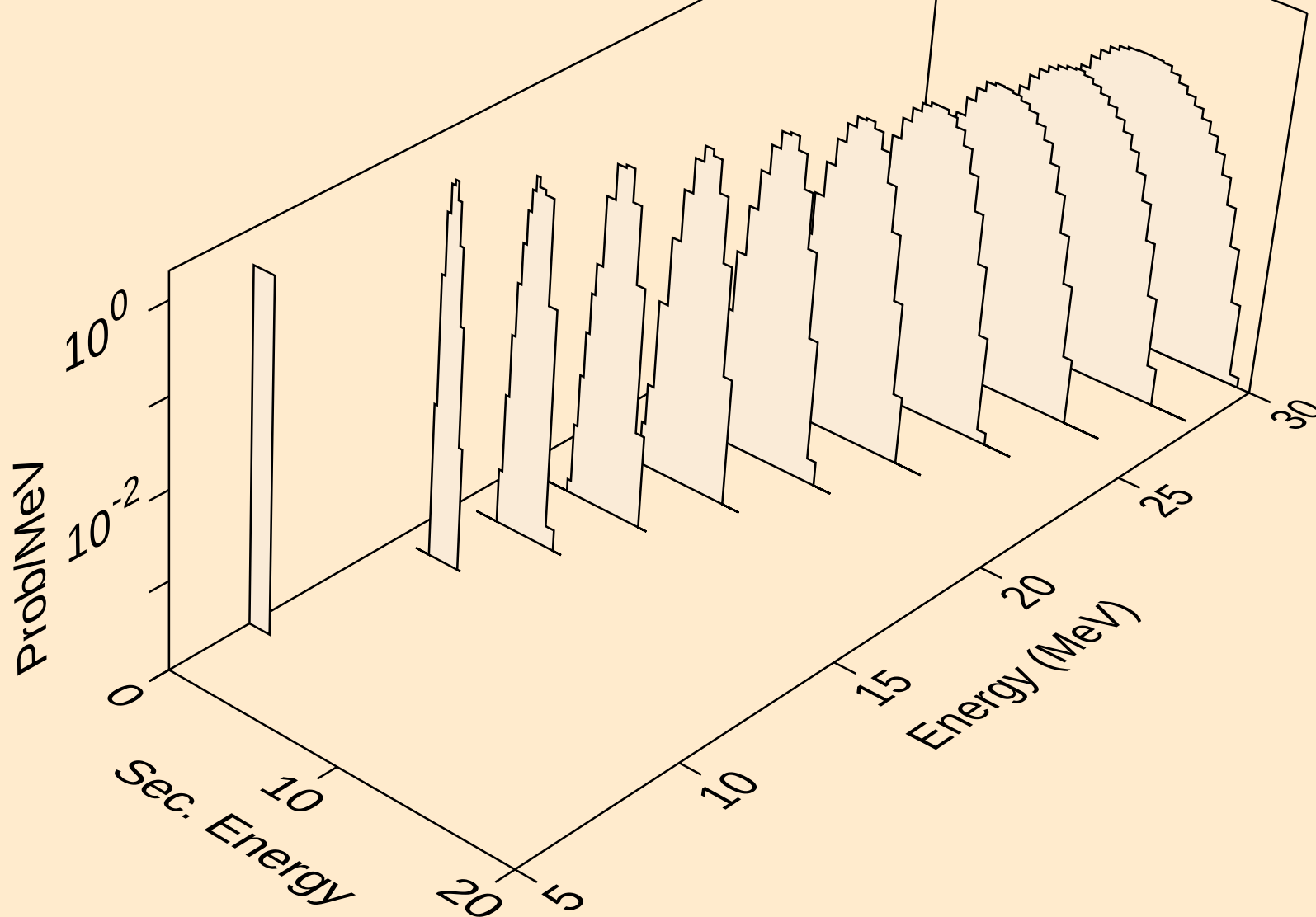
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
tritons from (n,n*)t



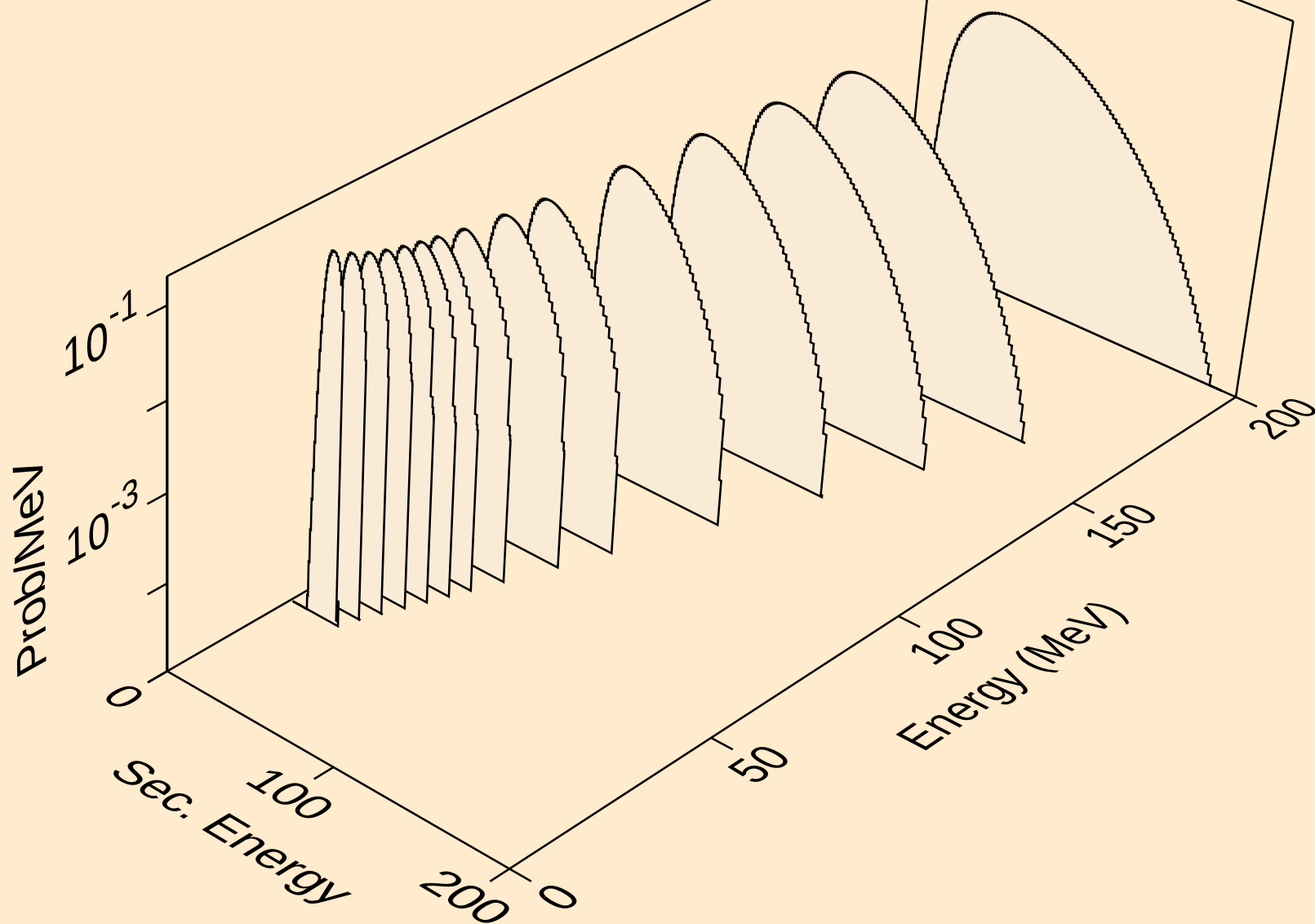
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tritons from (n,t)



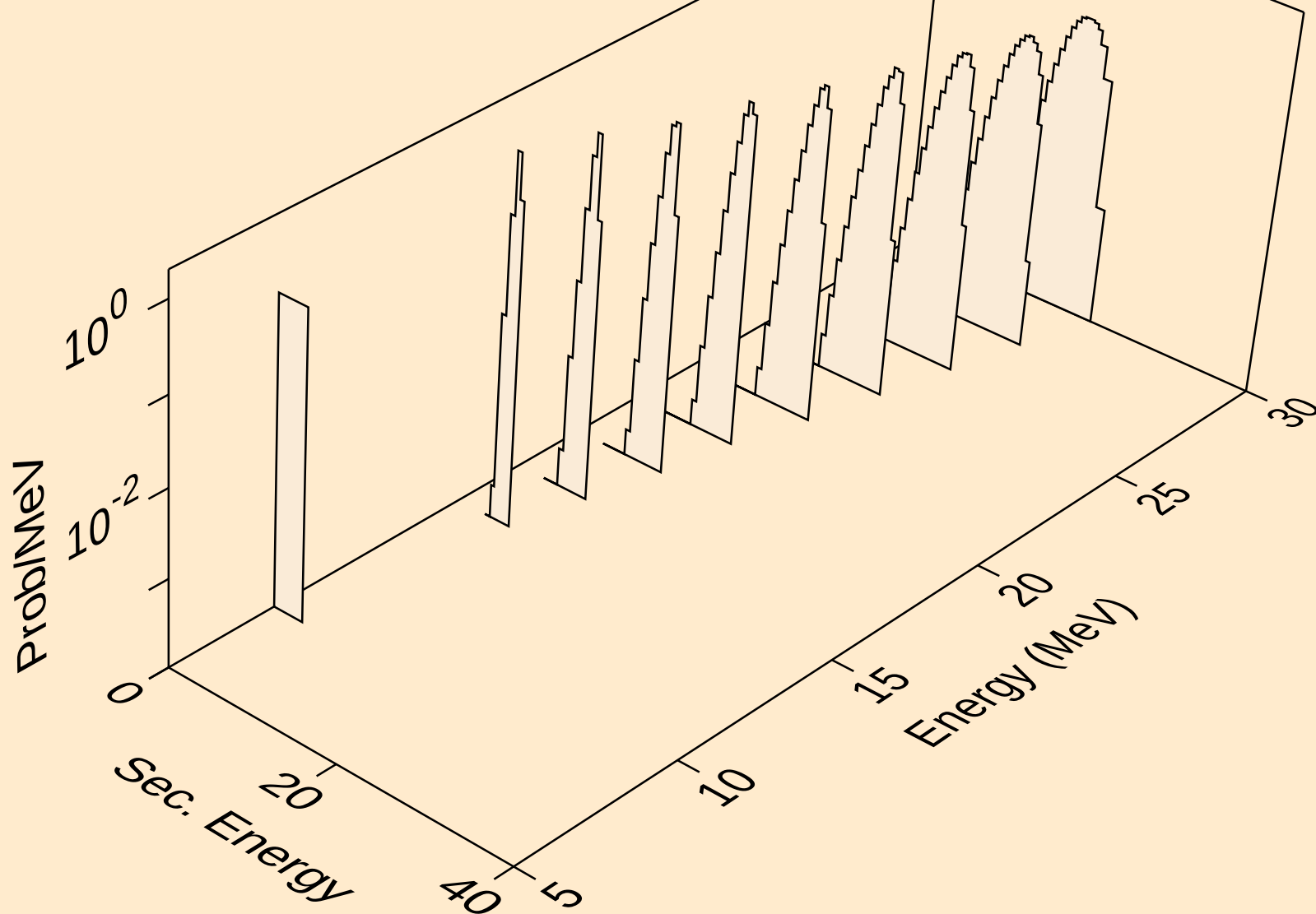
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tritons from (n,pt)



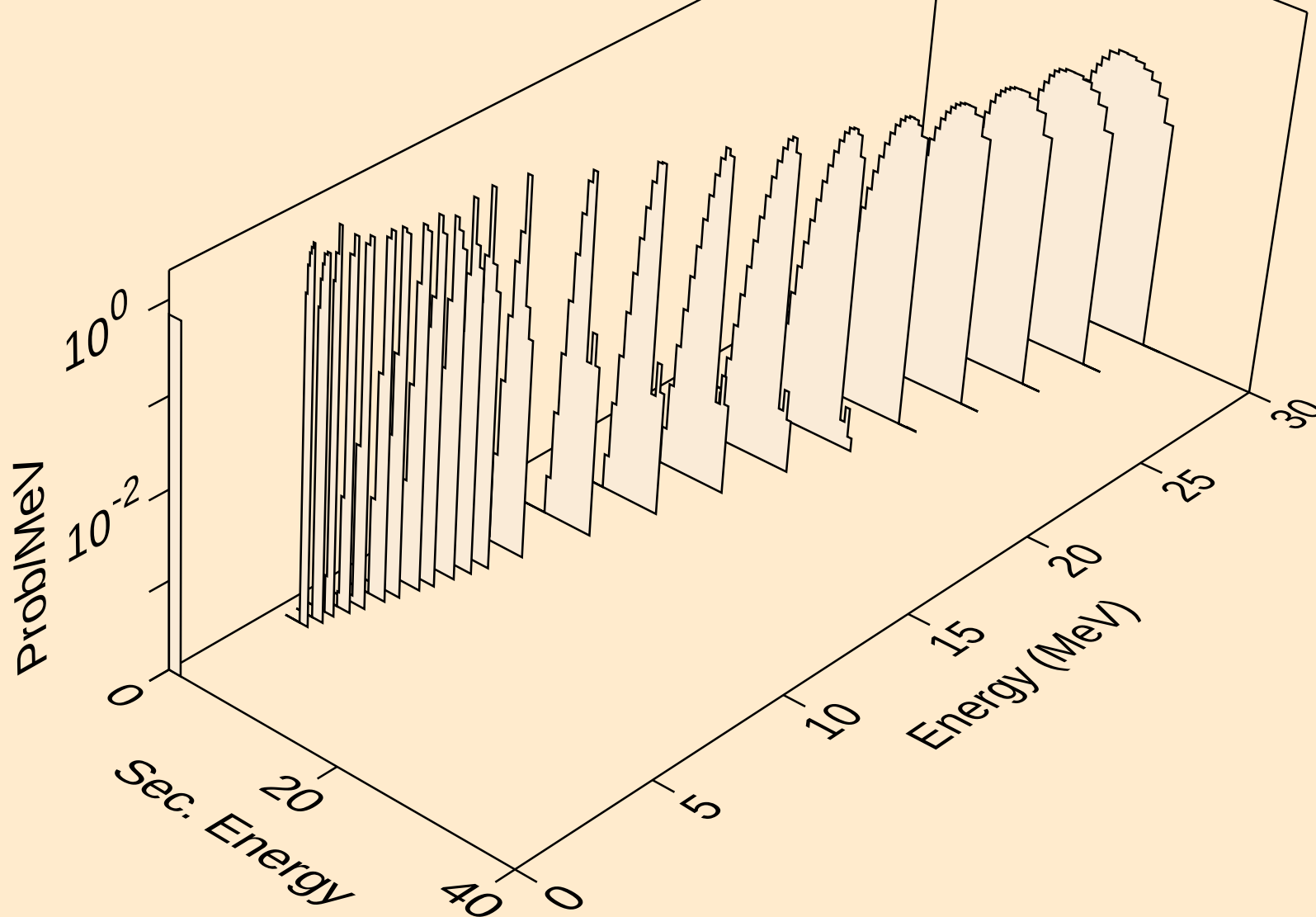
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
he3s from (n,x)



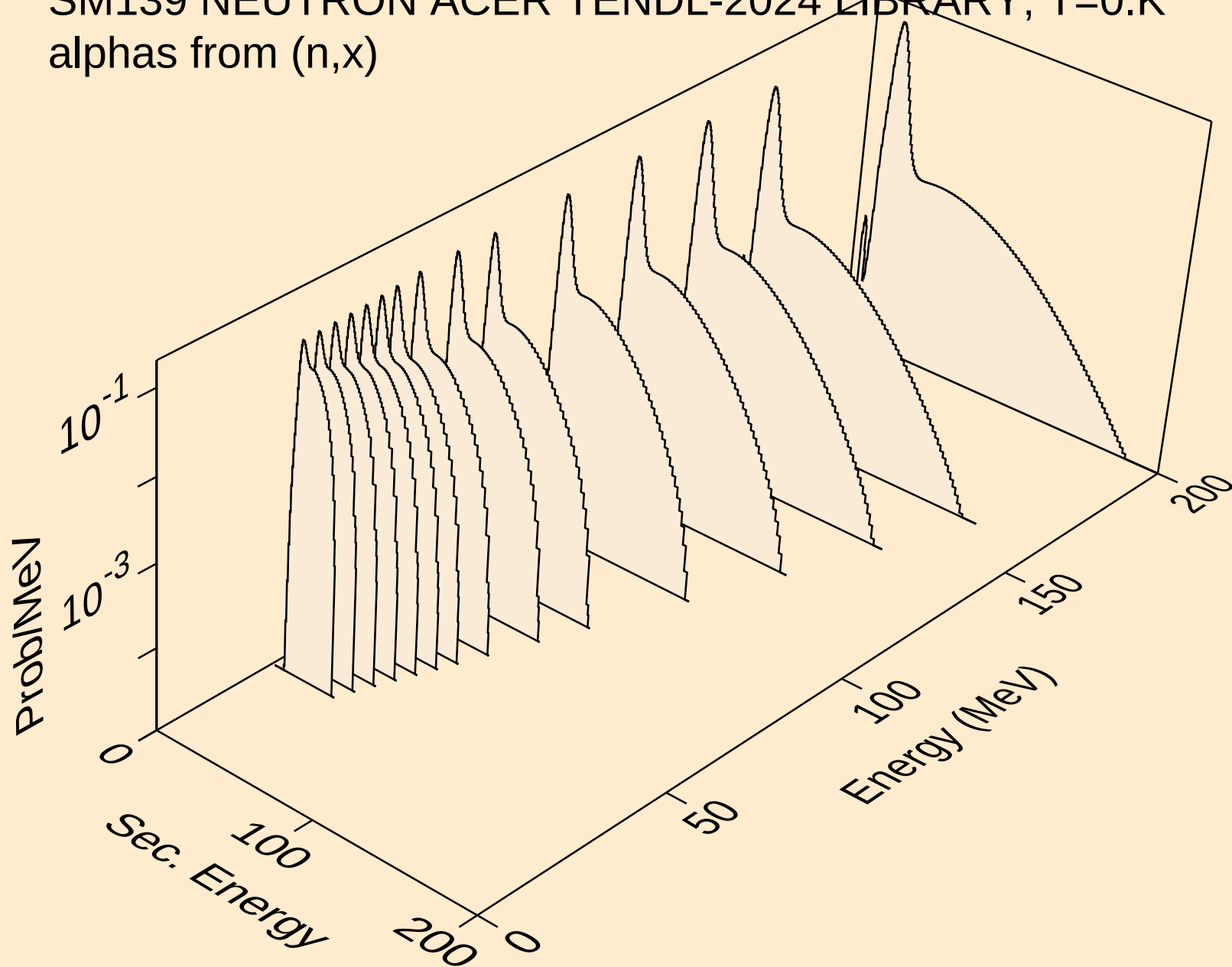
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
he3s from (n,n*)he3



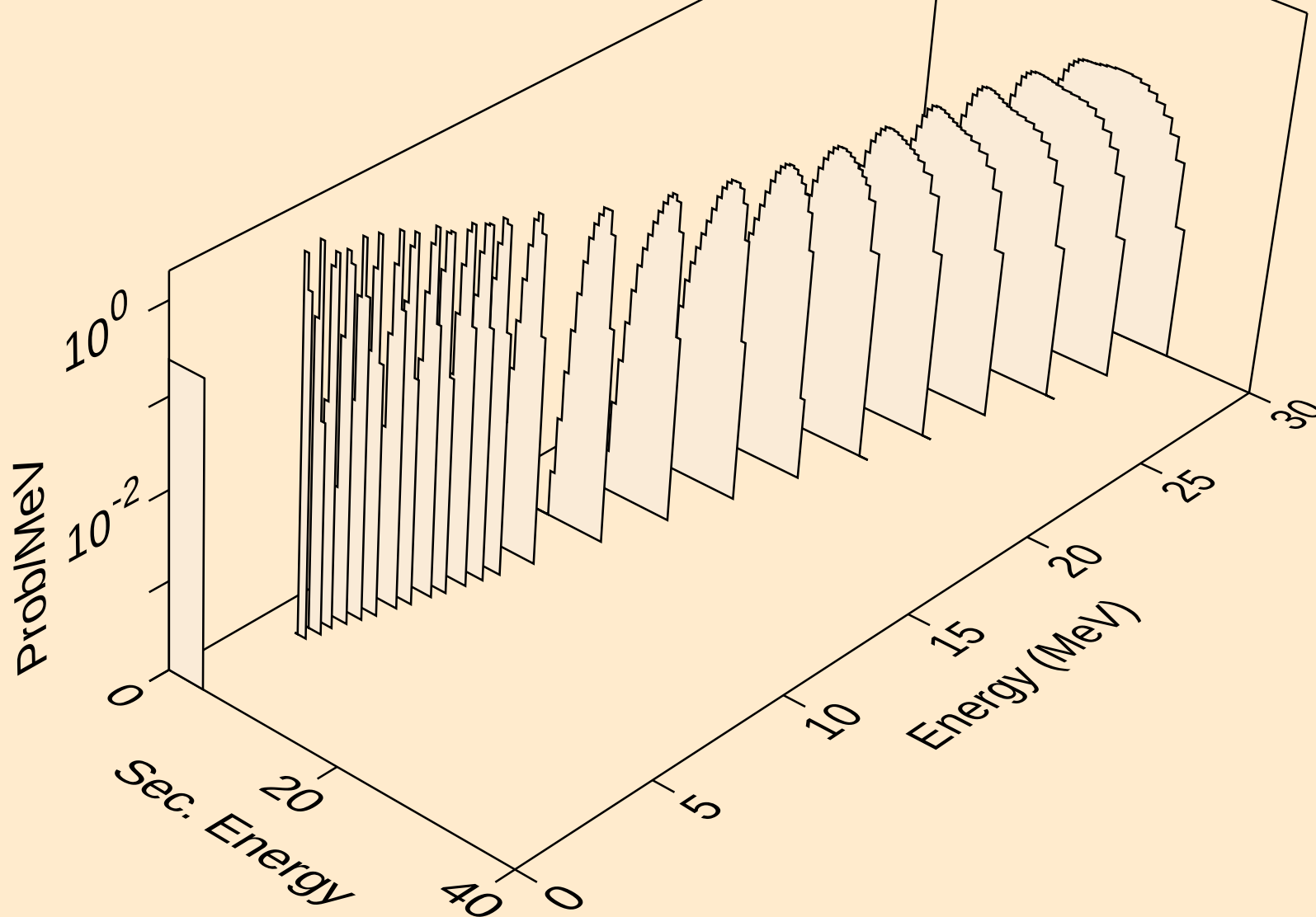
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he3s from (n,he3)



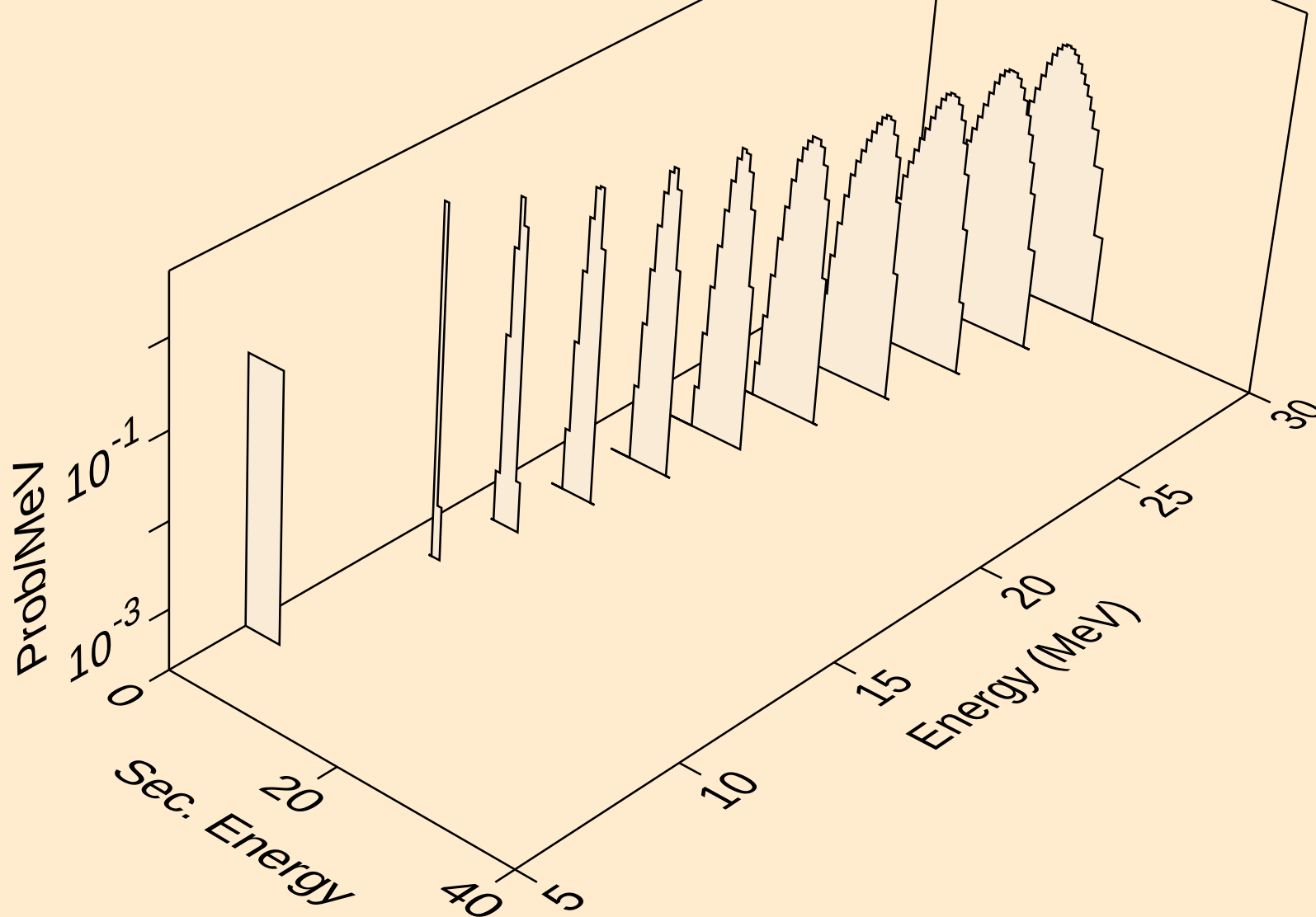
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
alphas from (n,x)



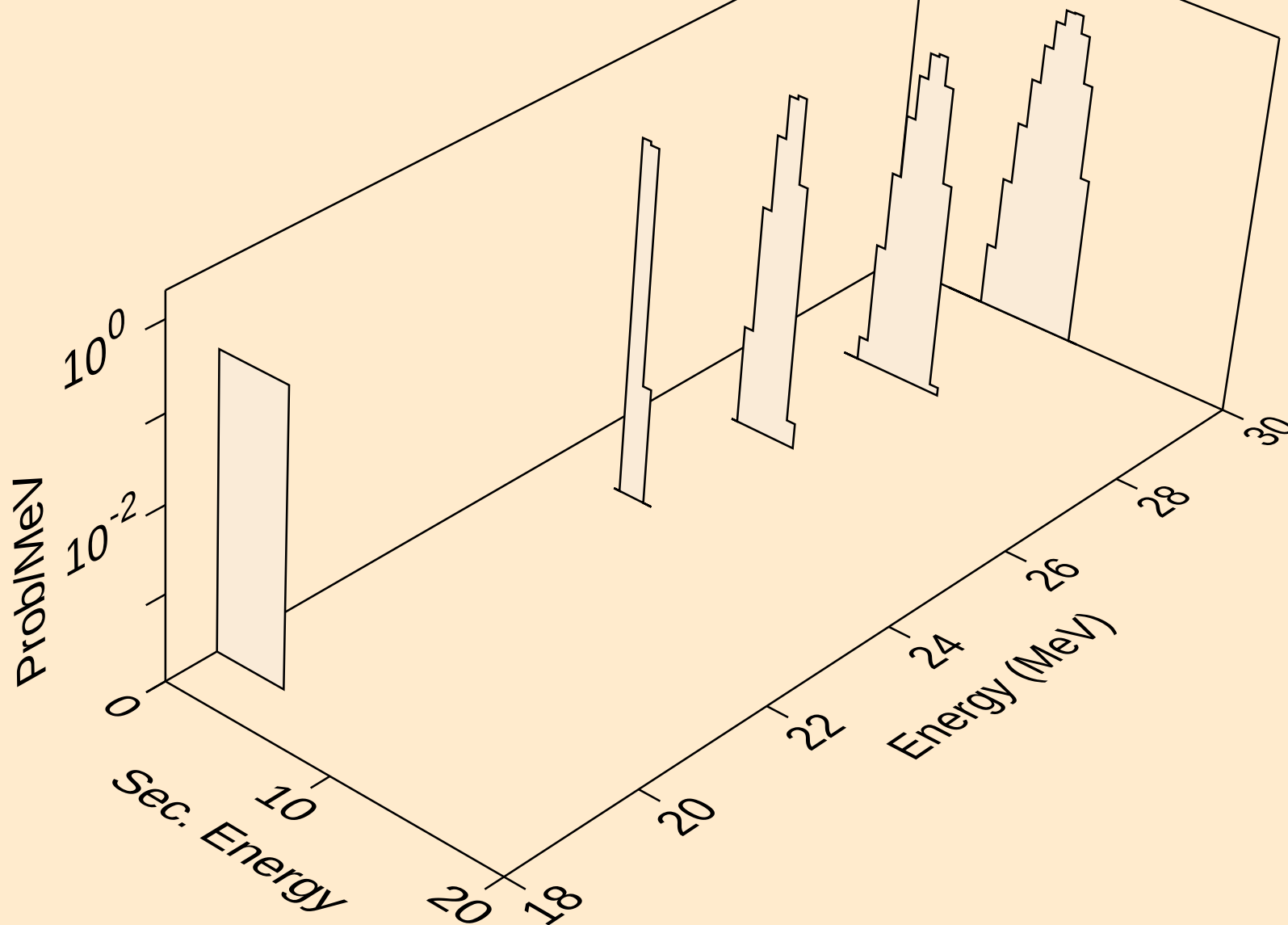
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alphas from (n,n*)a



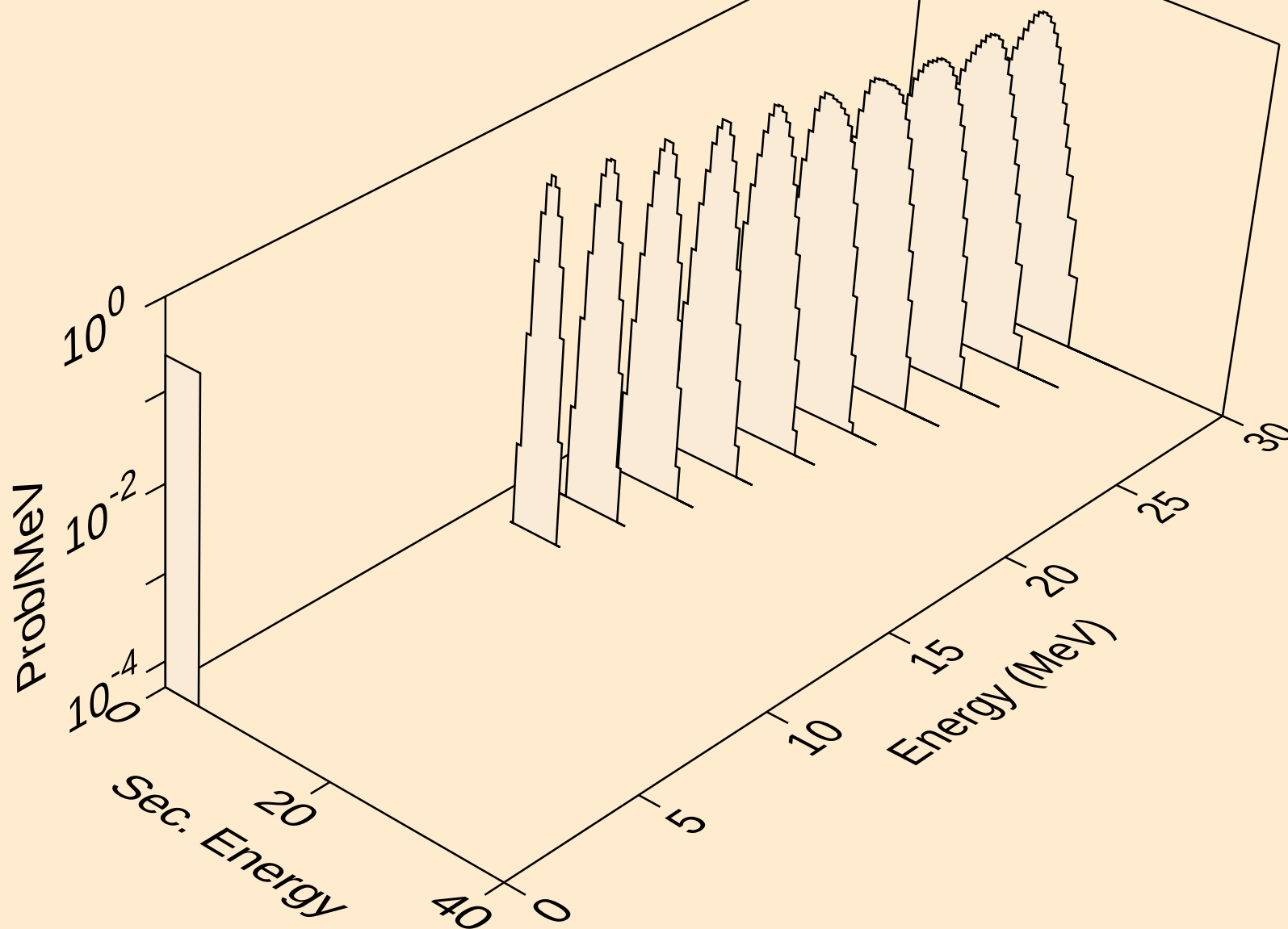
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alphas from (n,2n)a



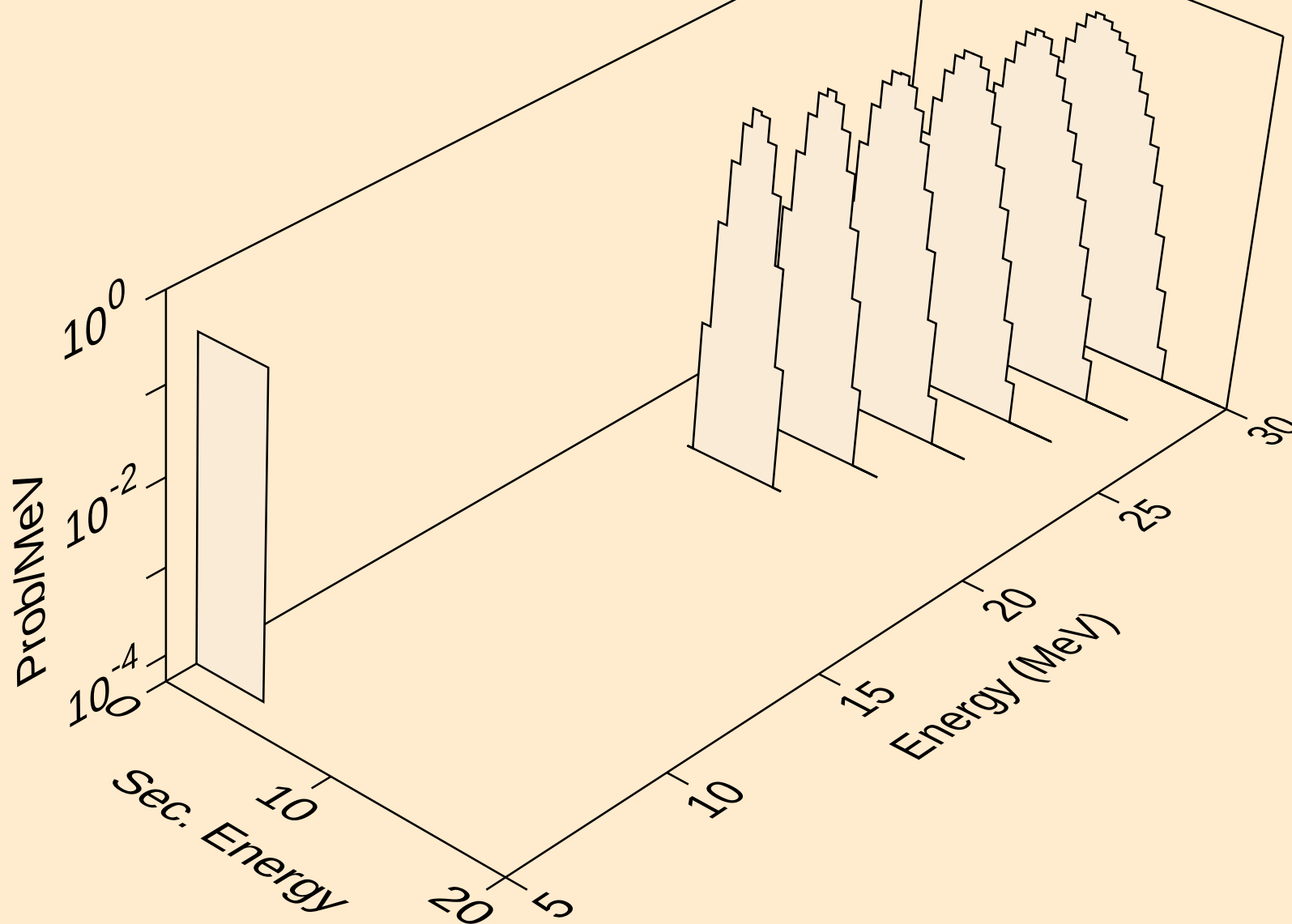
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alphas from (n,3n)a



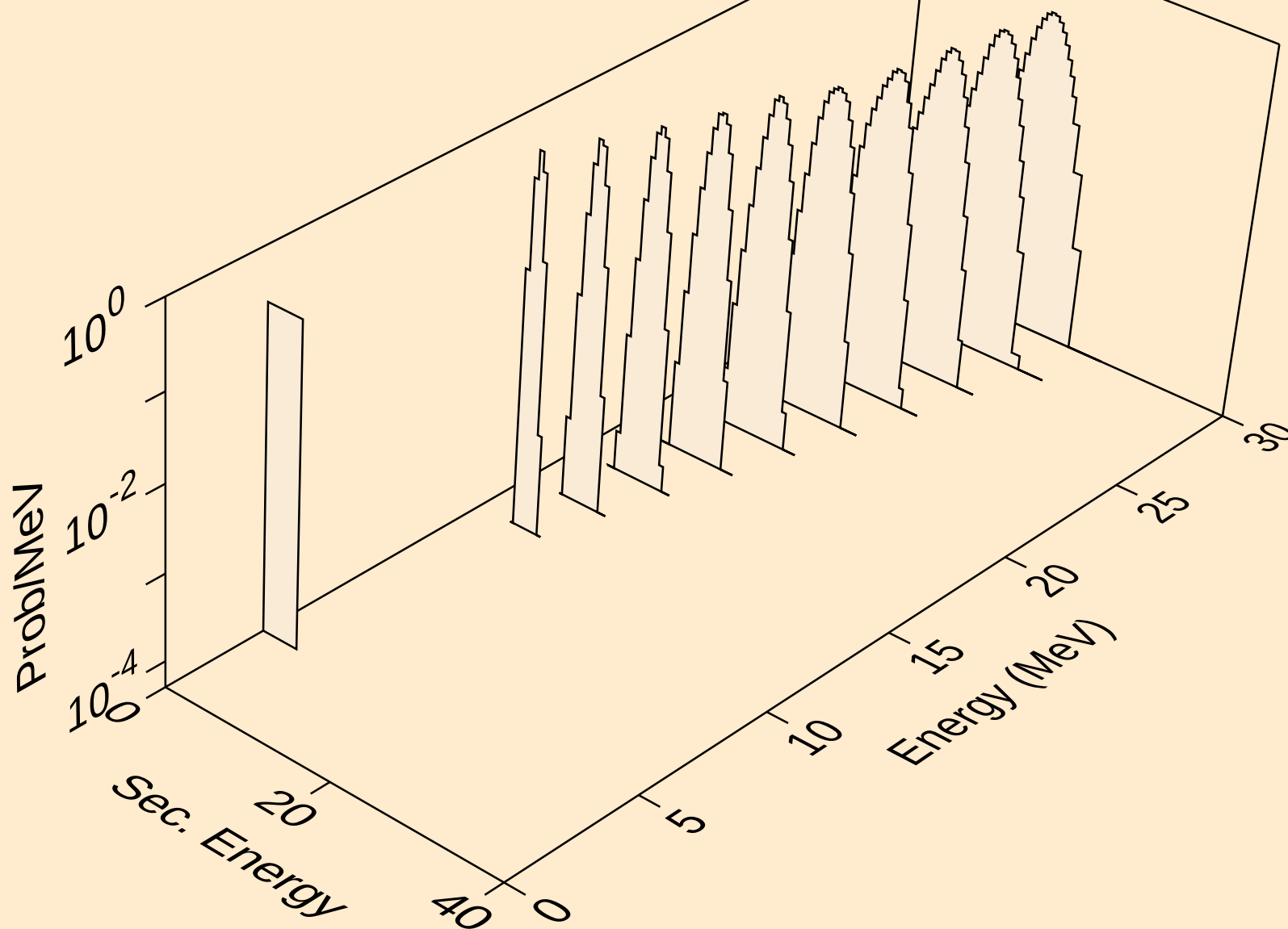
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alphas from (n,n*)2a



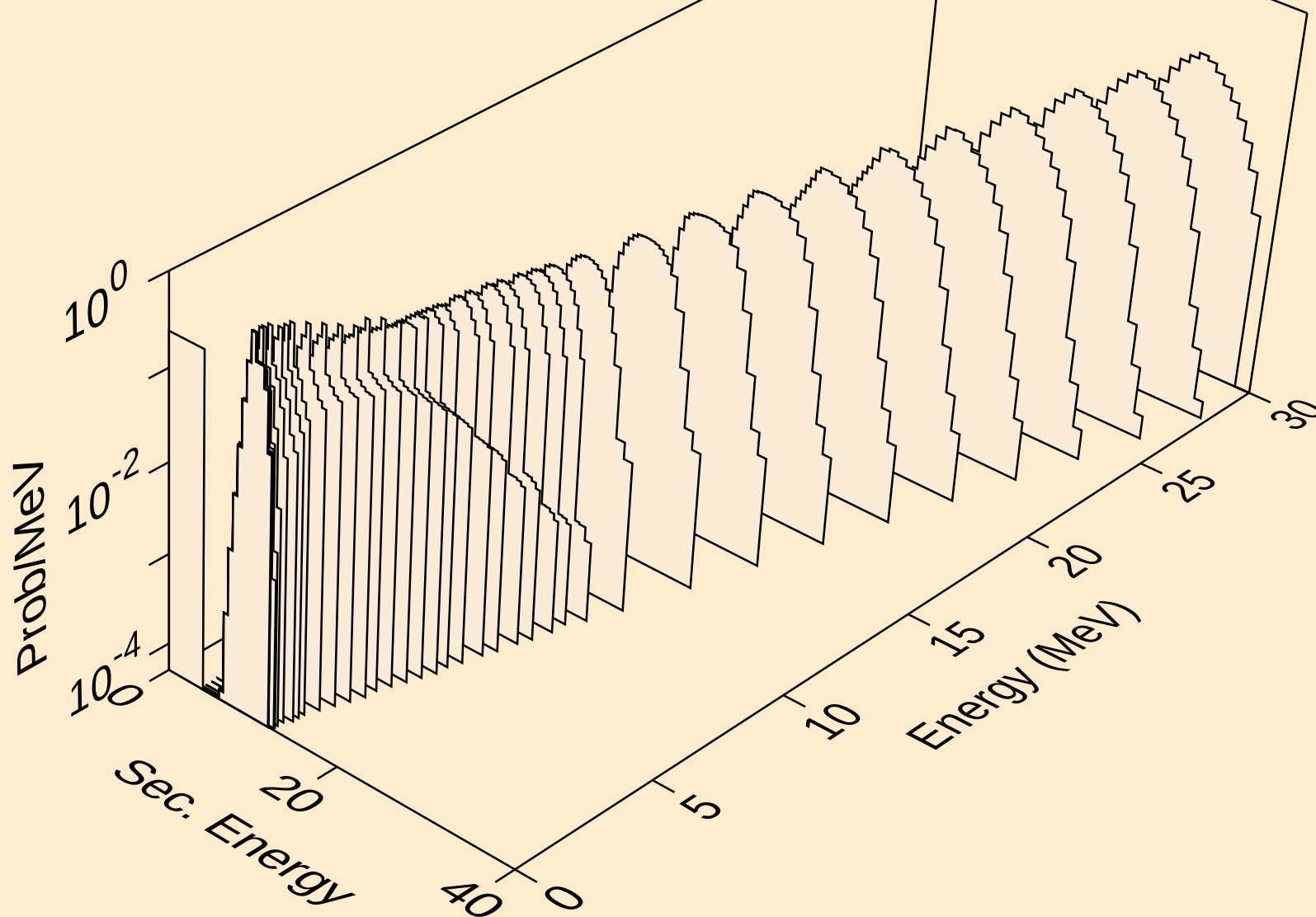
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alphas from (n,2n)2a



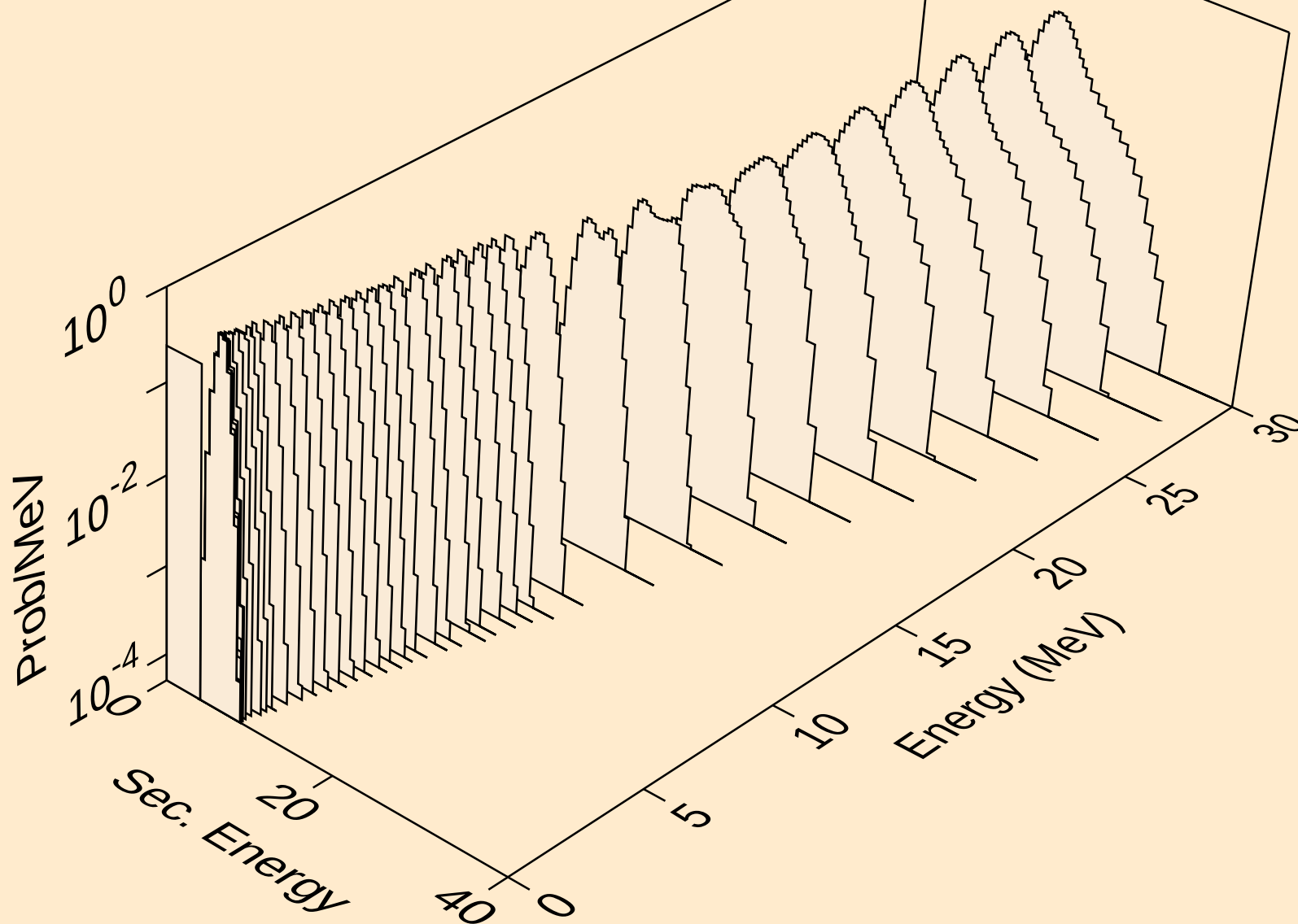
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alphas from (n,npa)



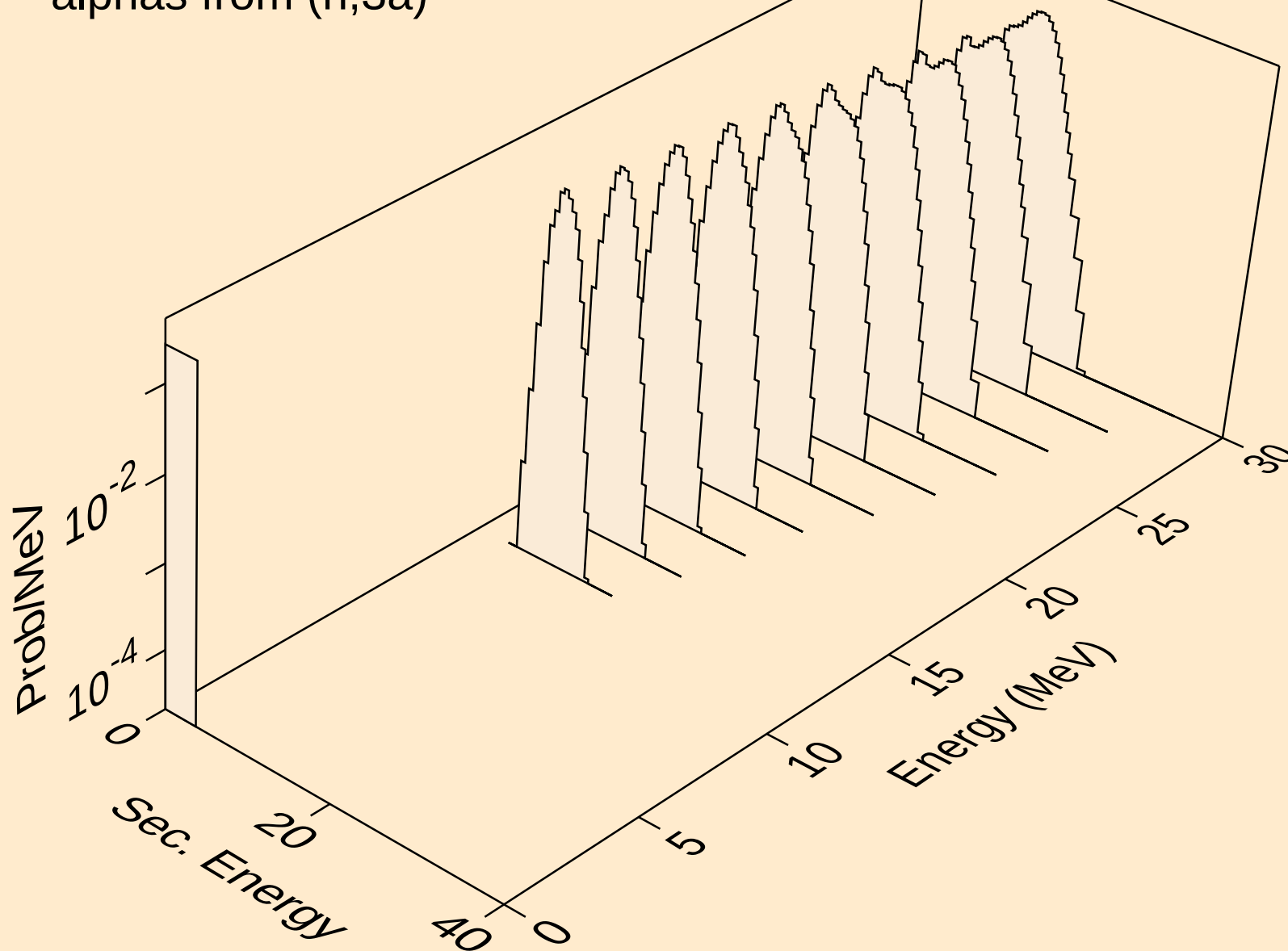
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alphas from (n,a)



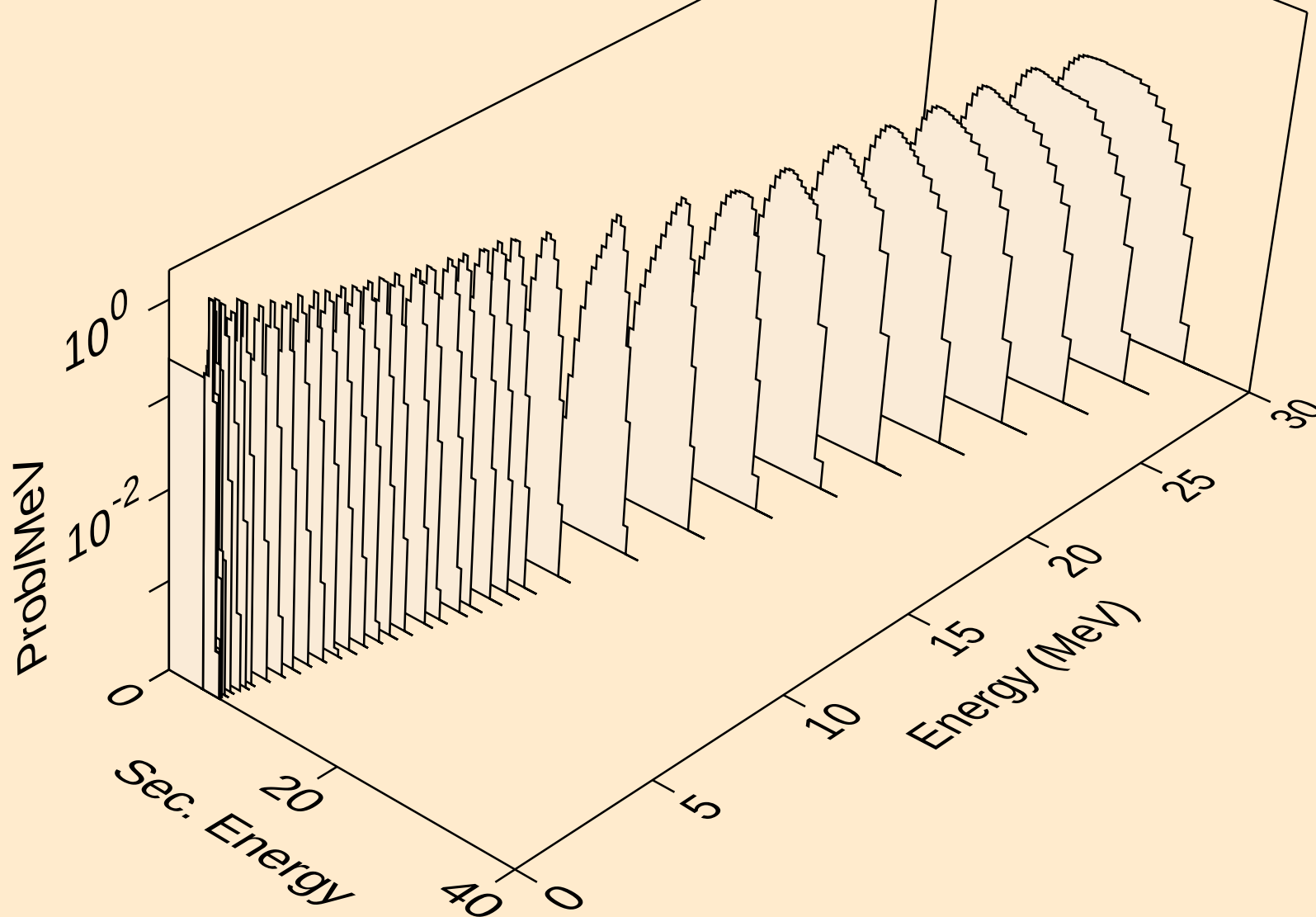
SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
alphas from (n,2a)



SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
alphas from (n,3a)



SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
alphas from (n,pa)



SM139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K
alphas from (n,da)

