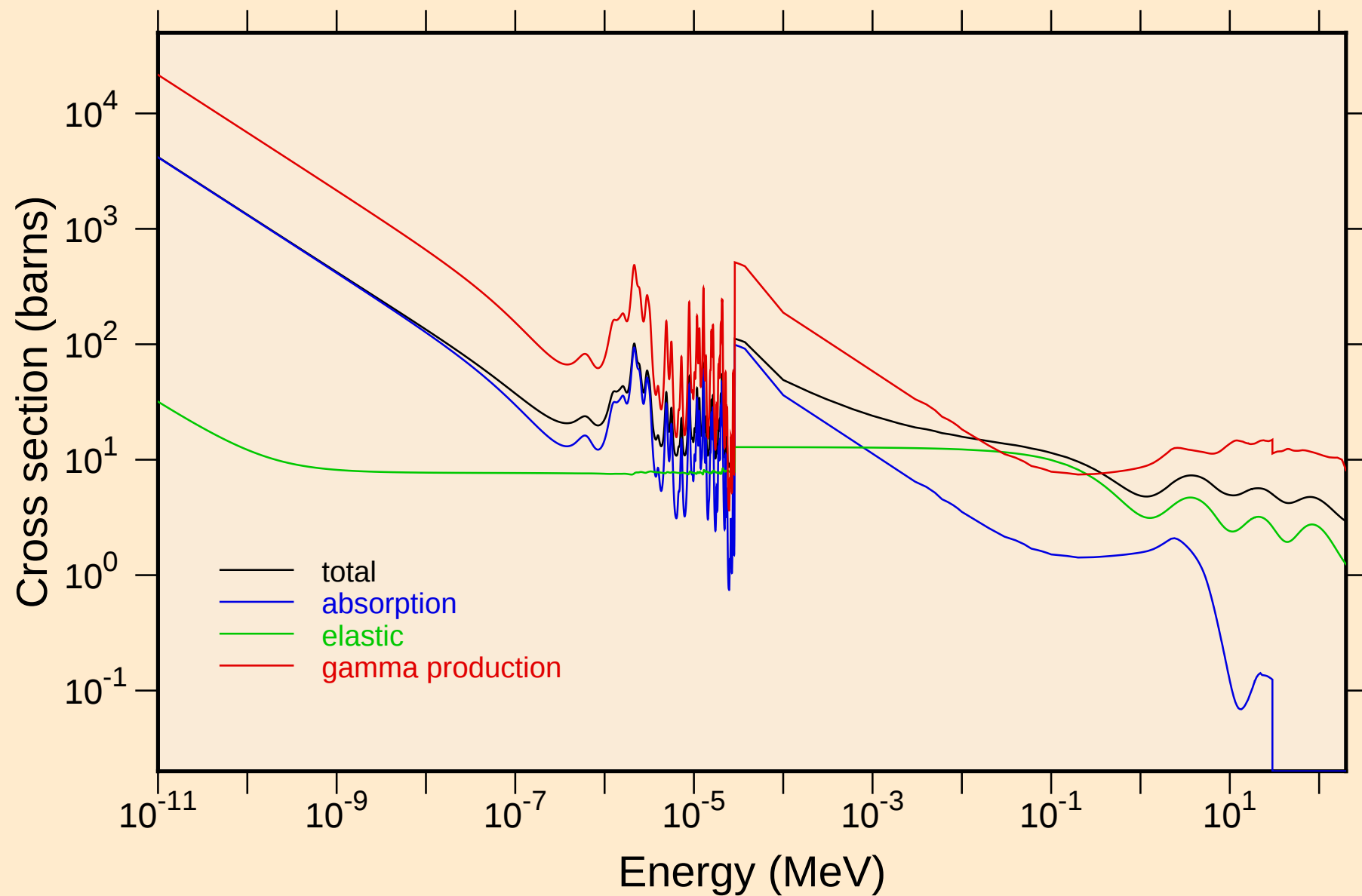
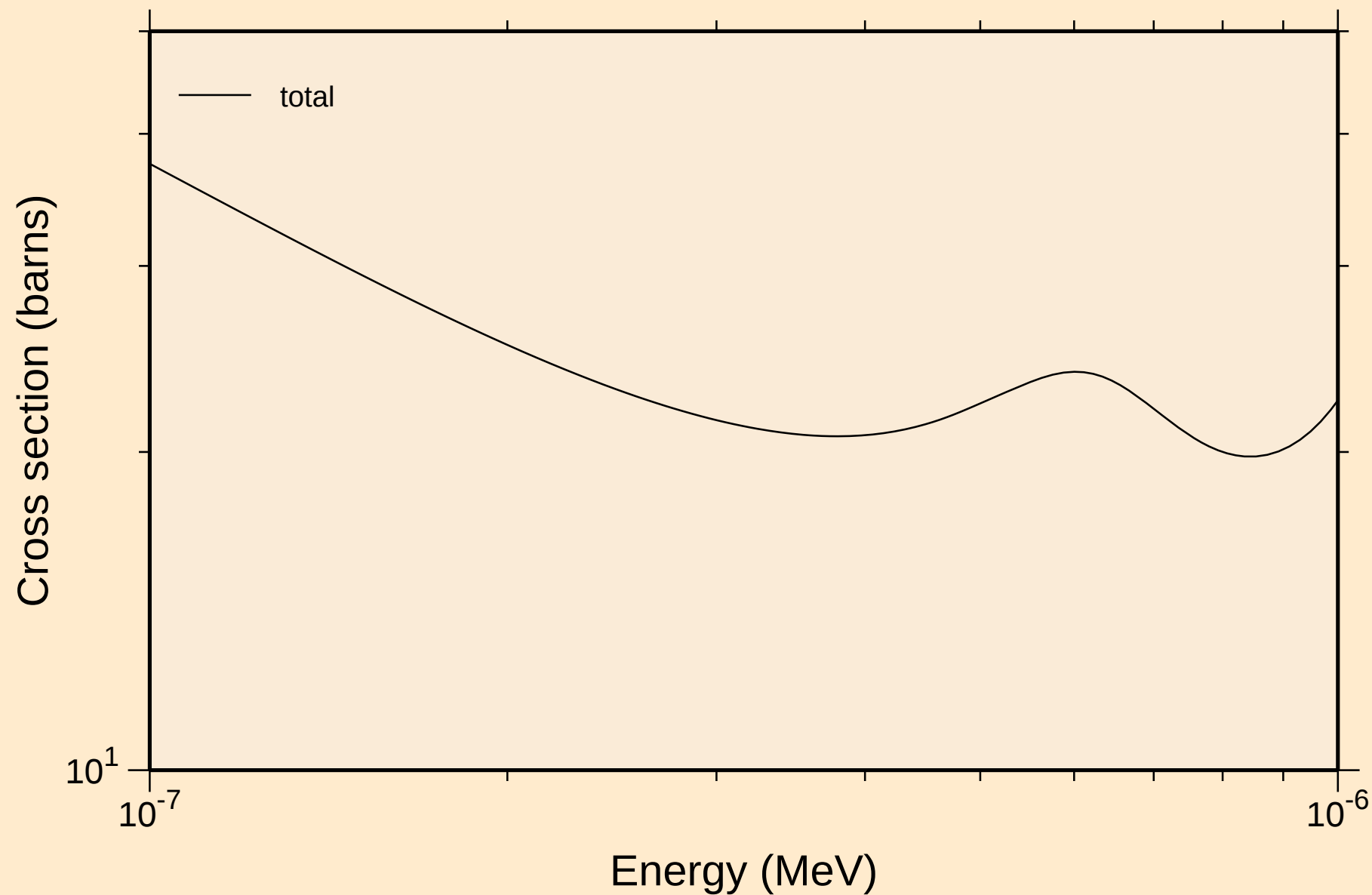


BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

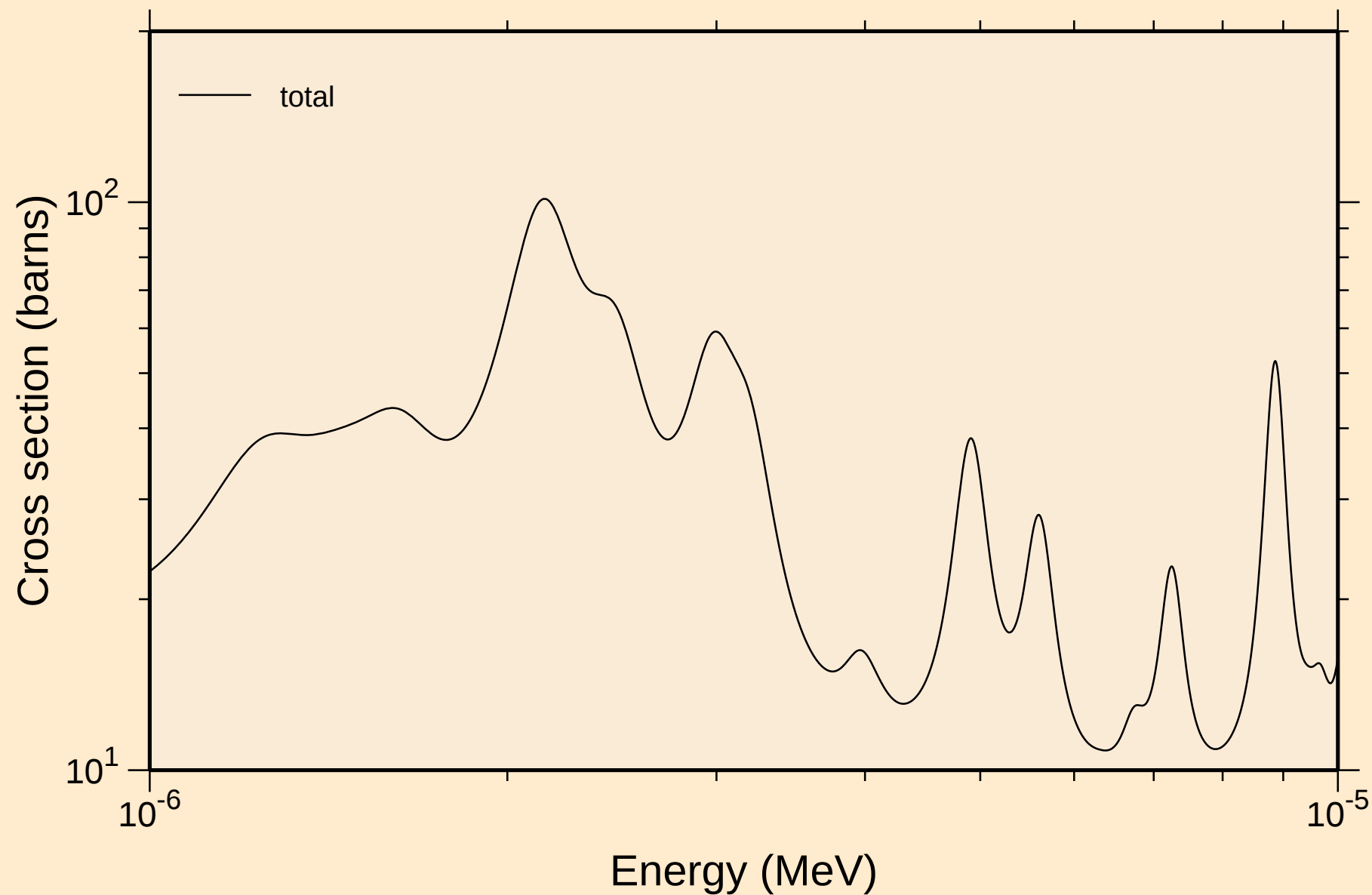
Principal cross sections



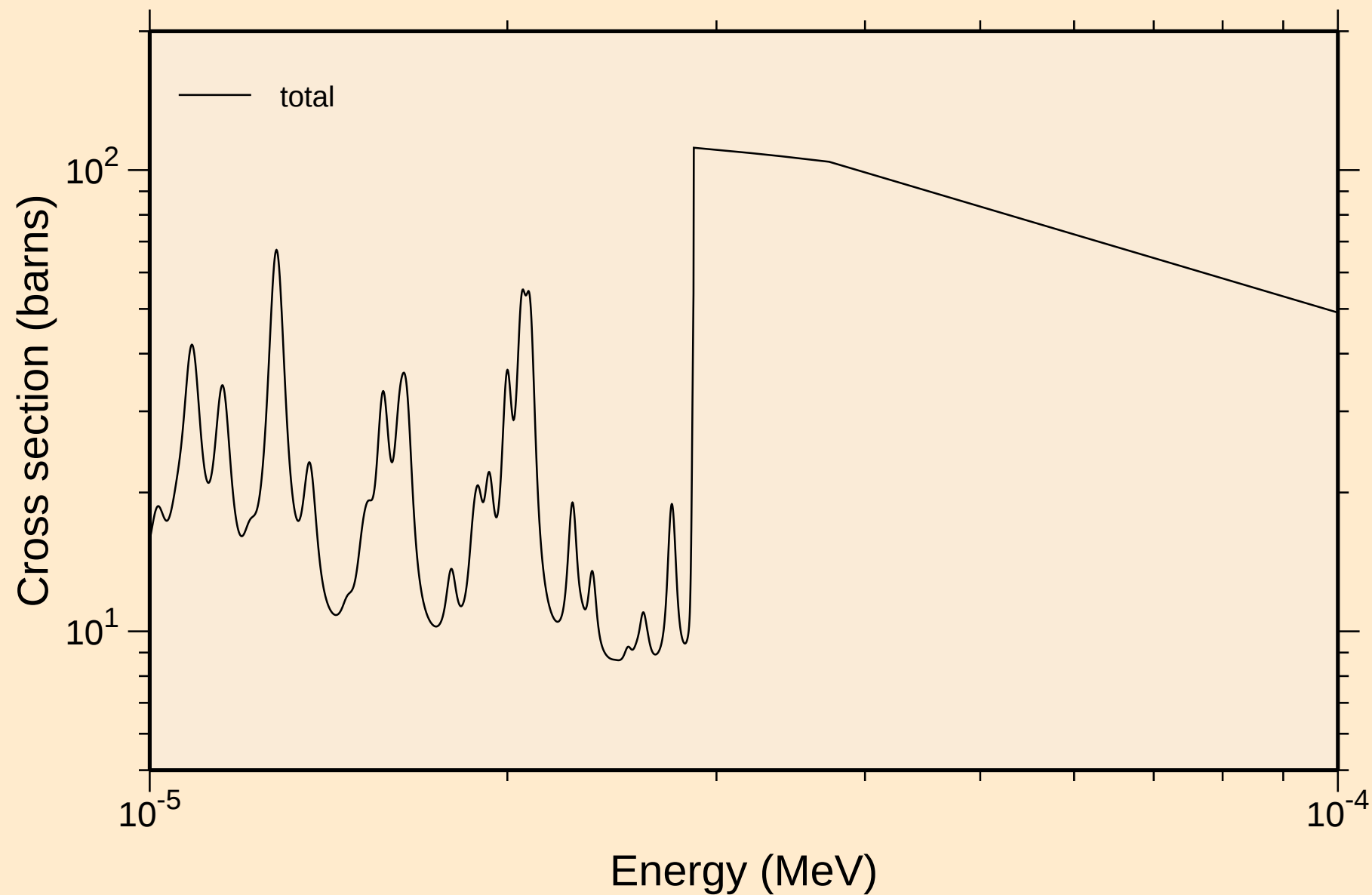
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
resonance total cross section



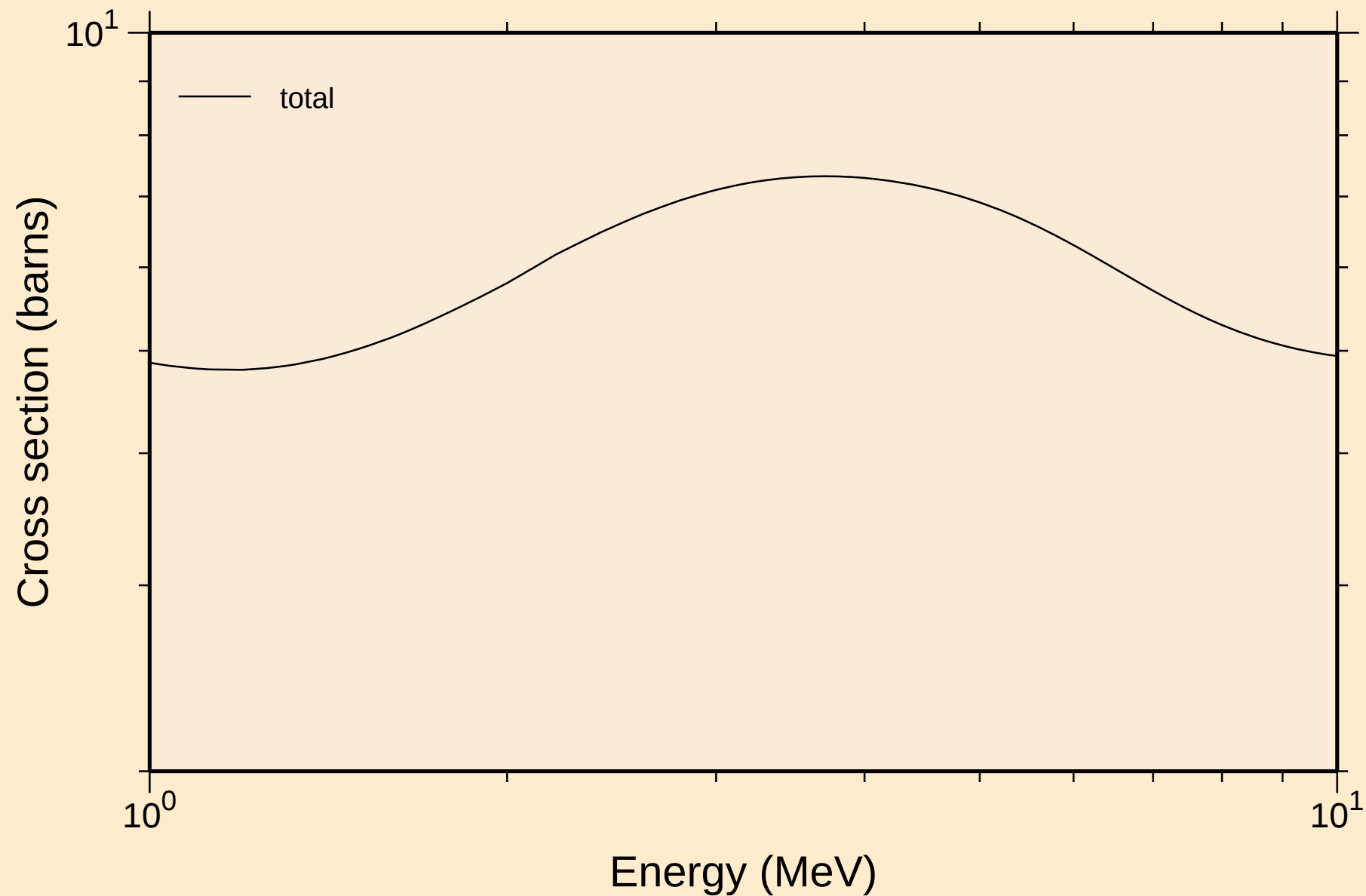
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
resonance total cross section



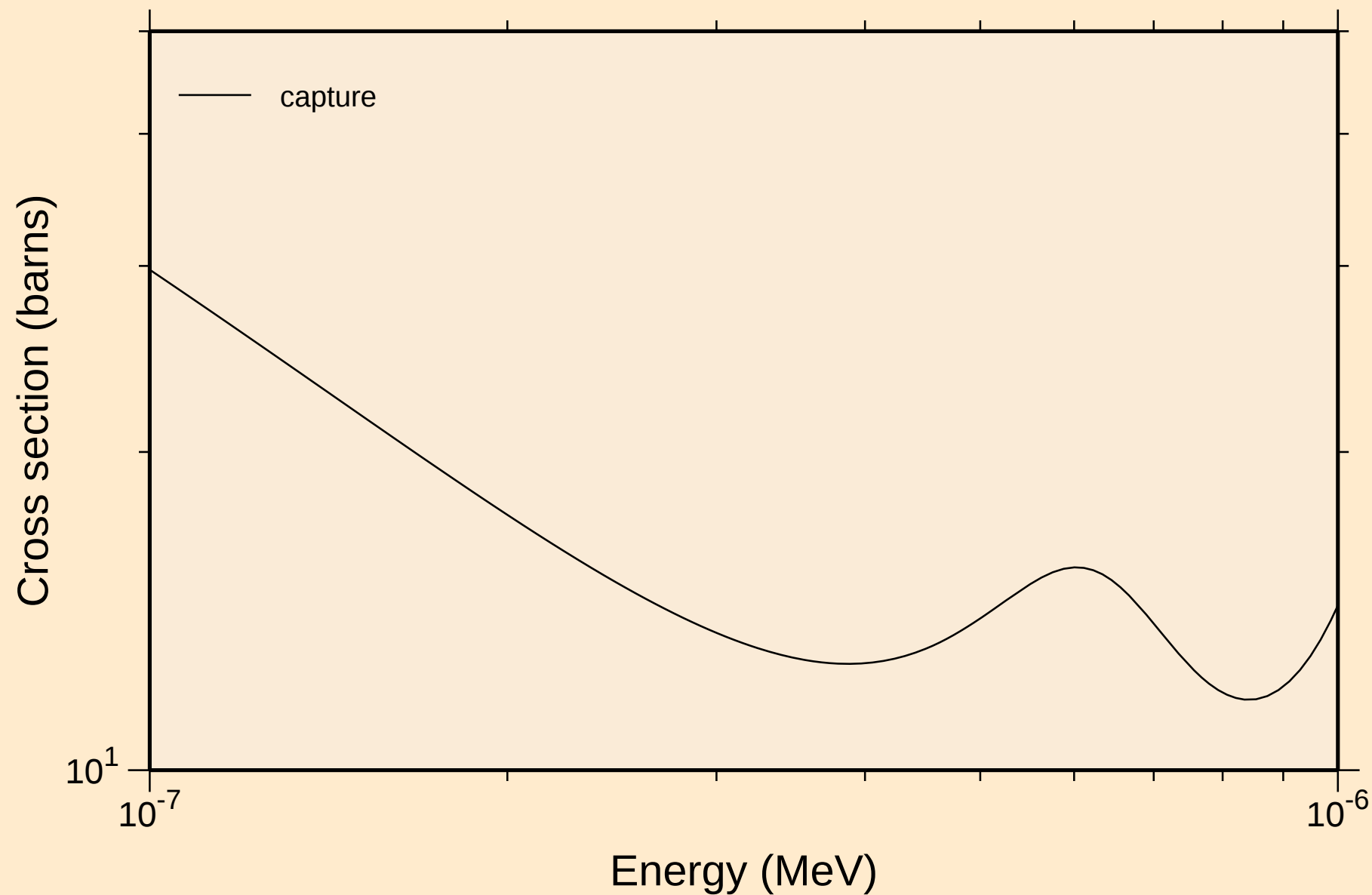
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resonance total cross section



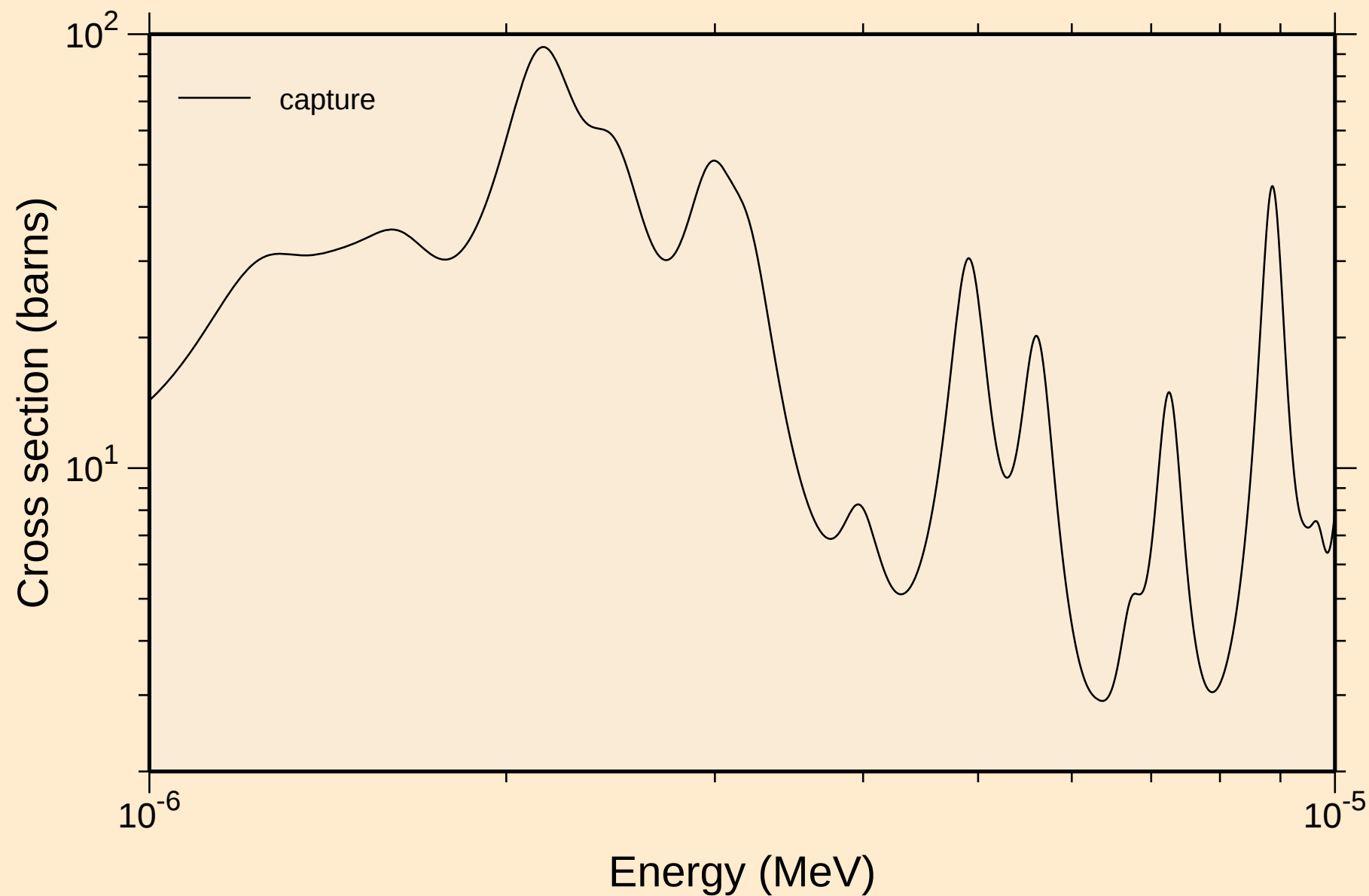
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resonance total cross section



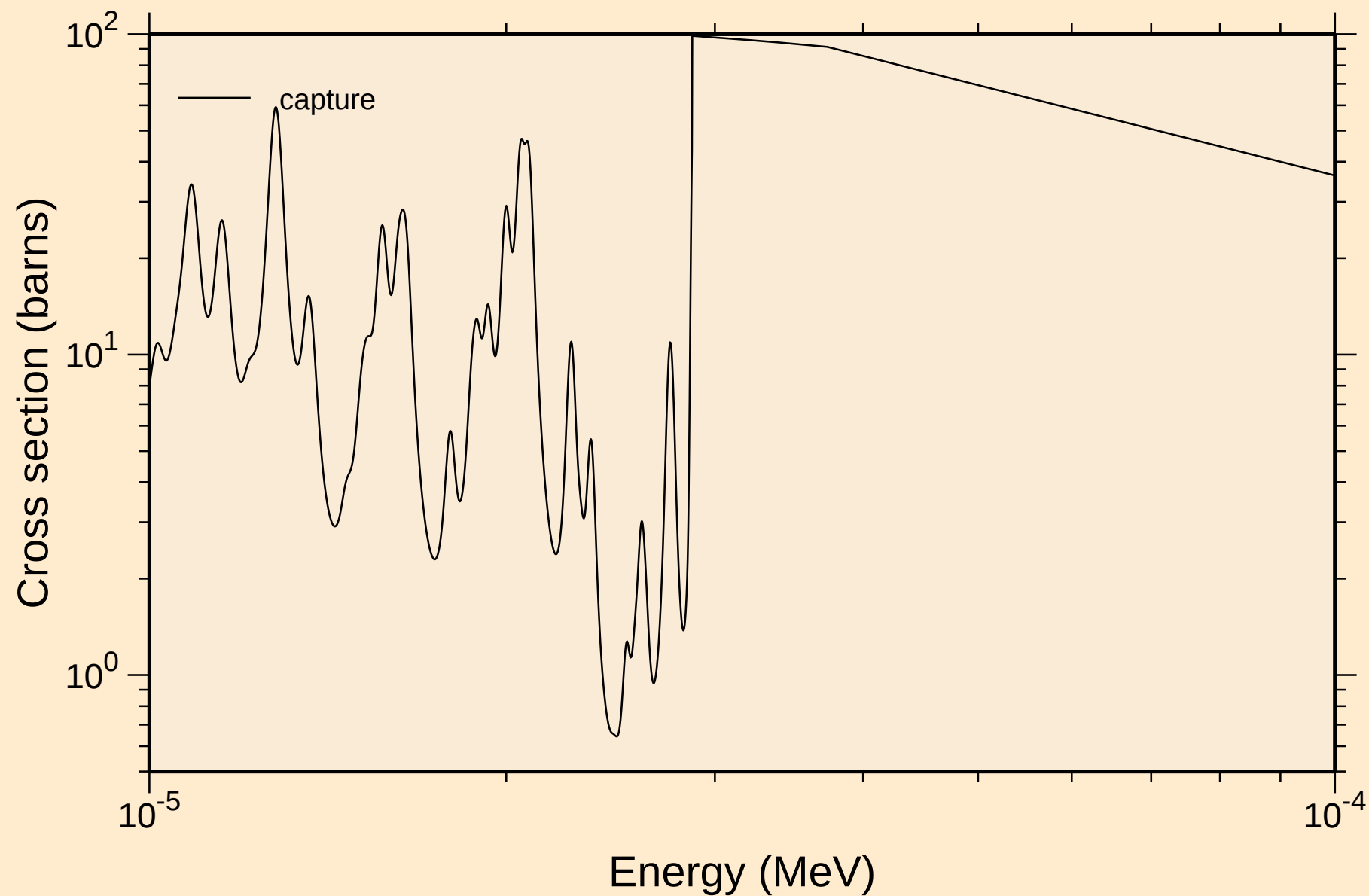
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
resonance absorption cross sections



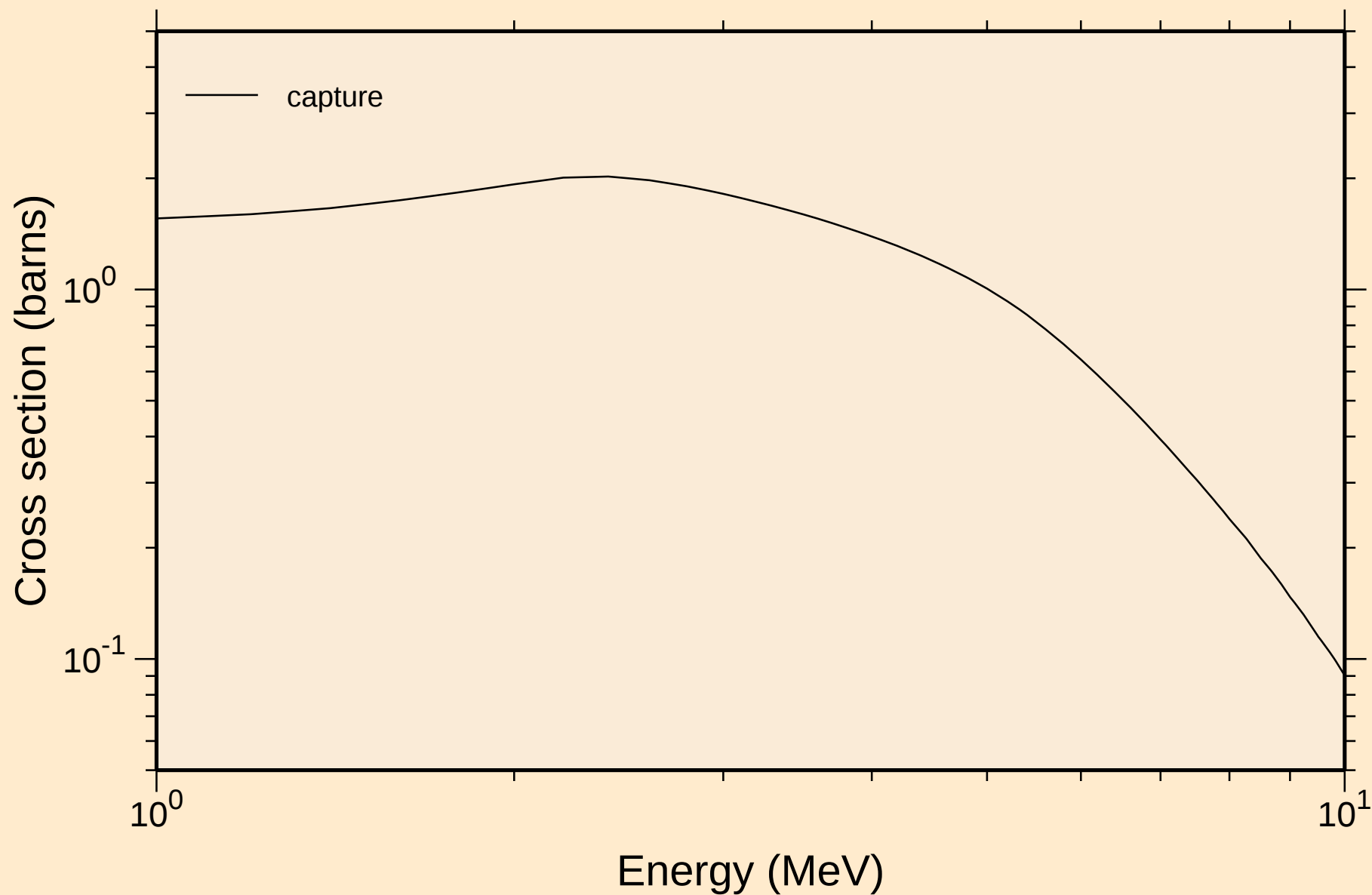
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
resonance absorption cross sections



BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
resonance absorption cross sections

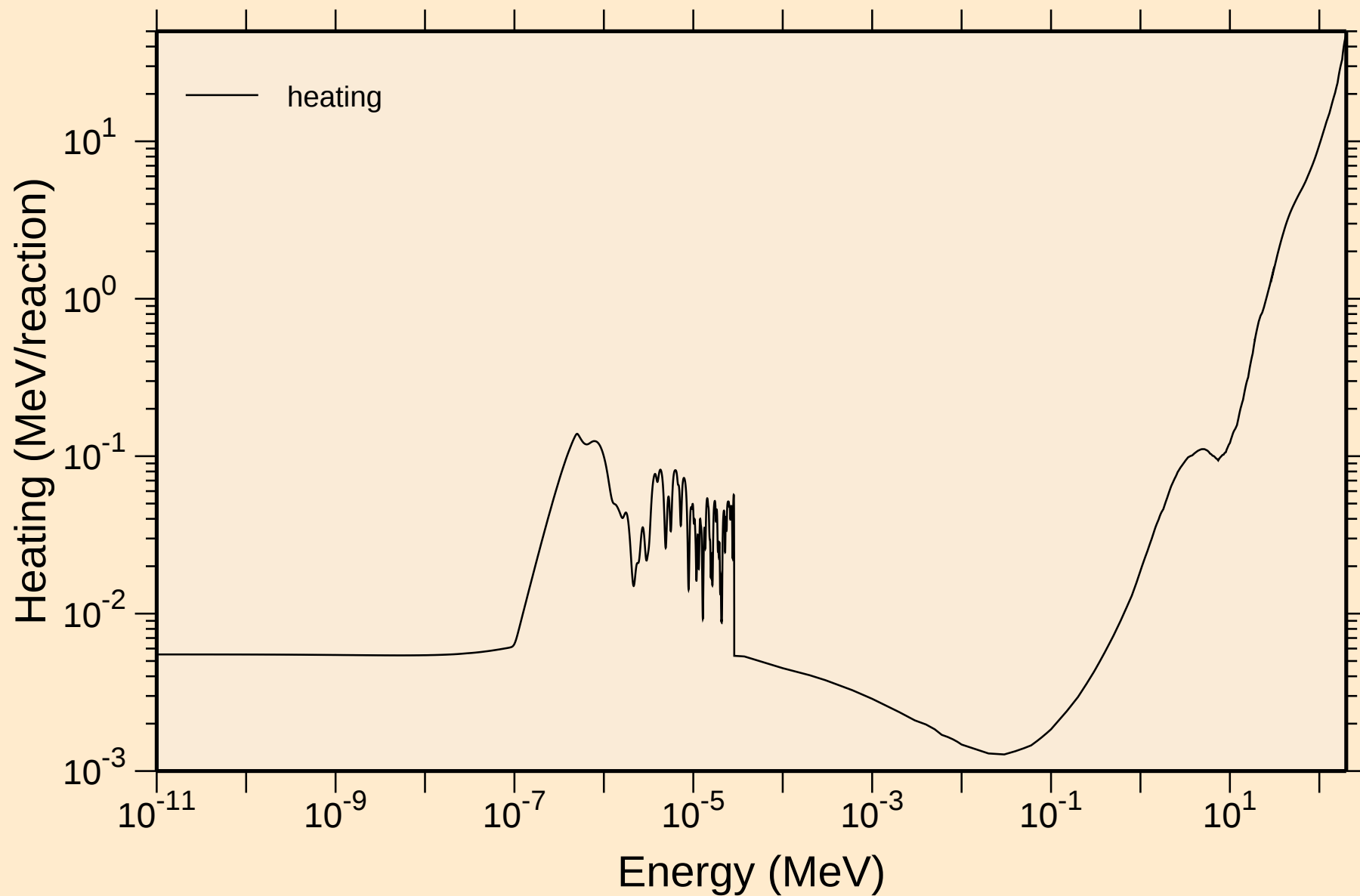


BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
resonance absorption cross sections

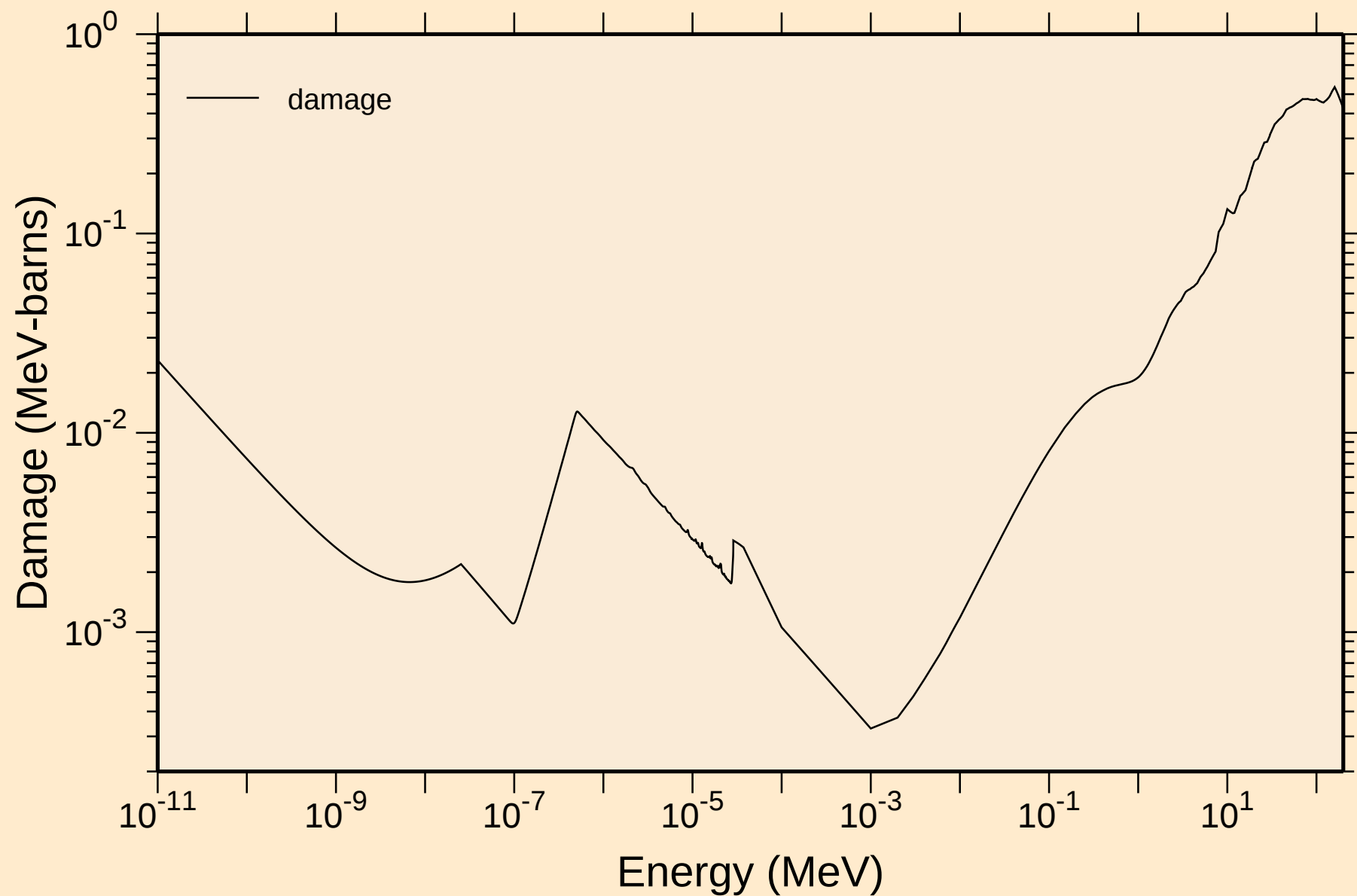


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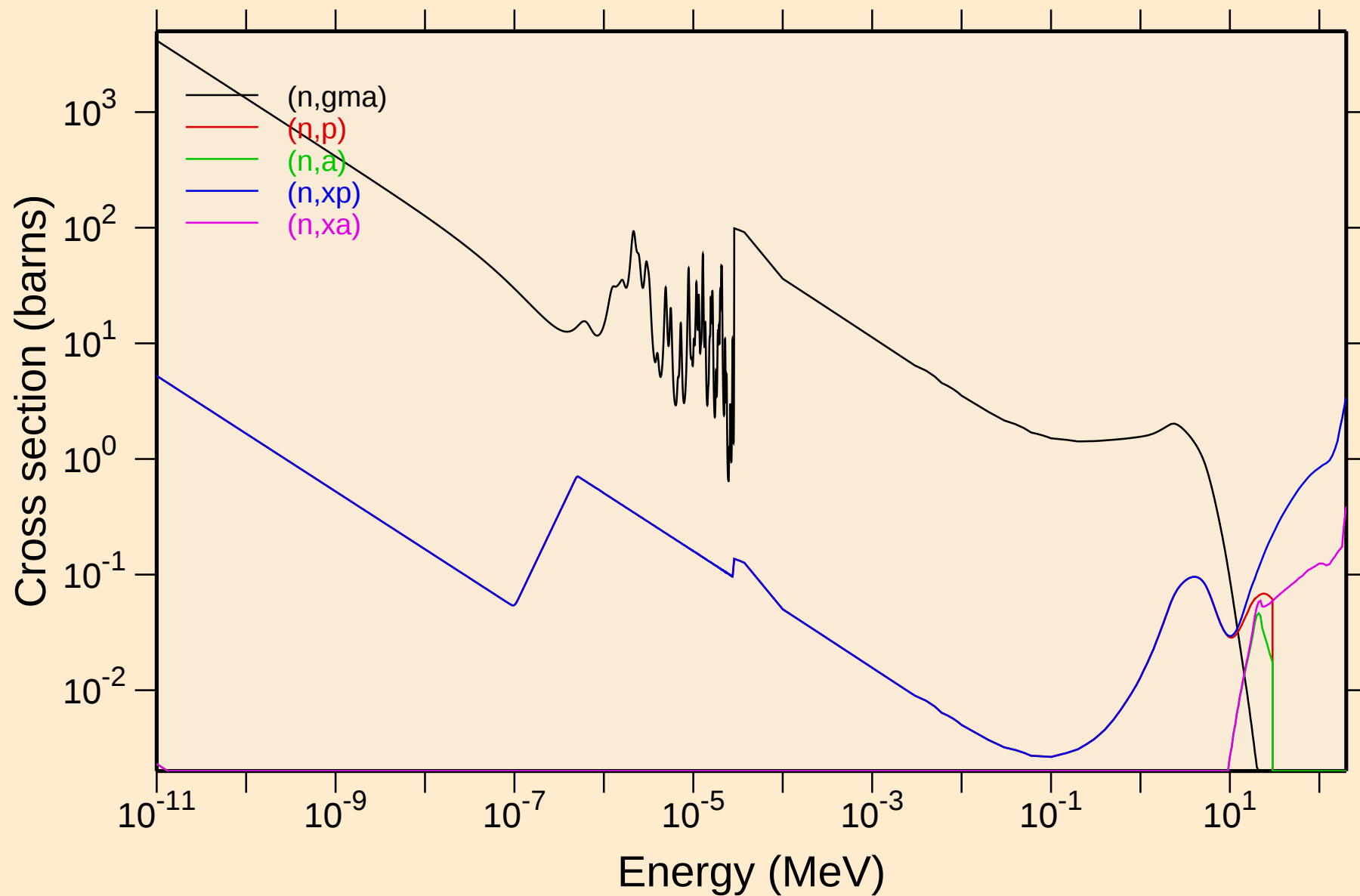
Heating



BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Damage

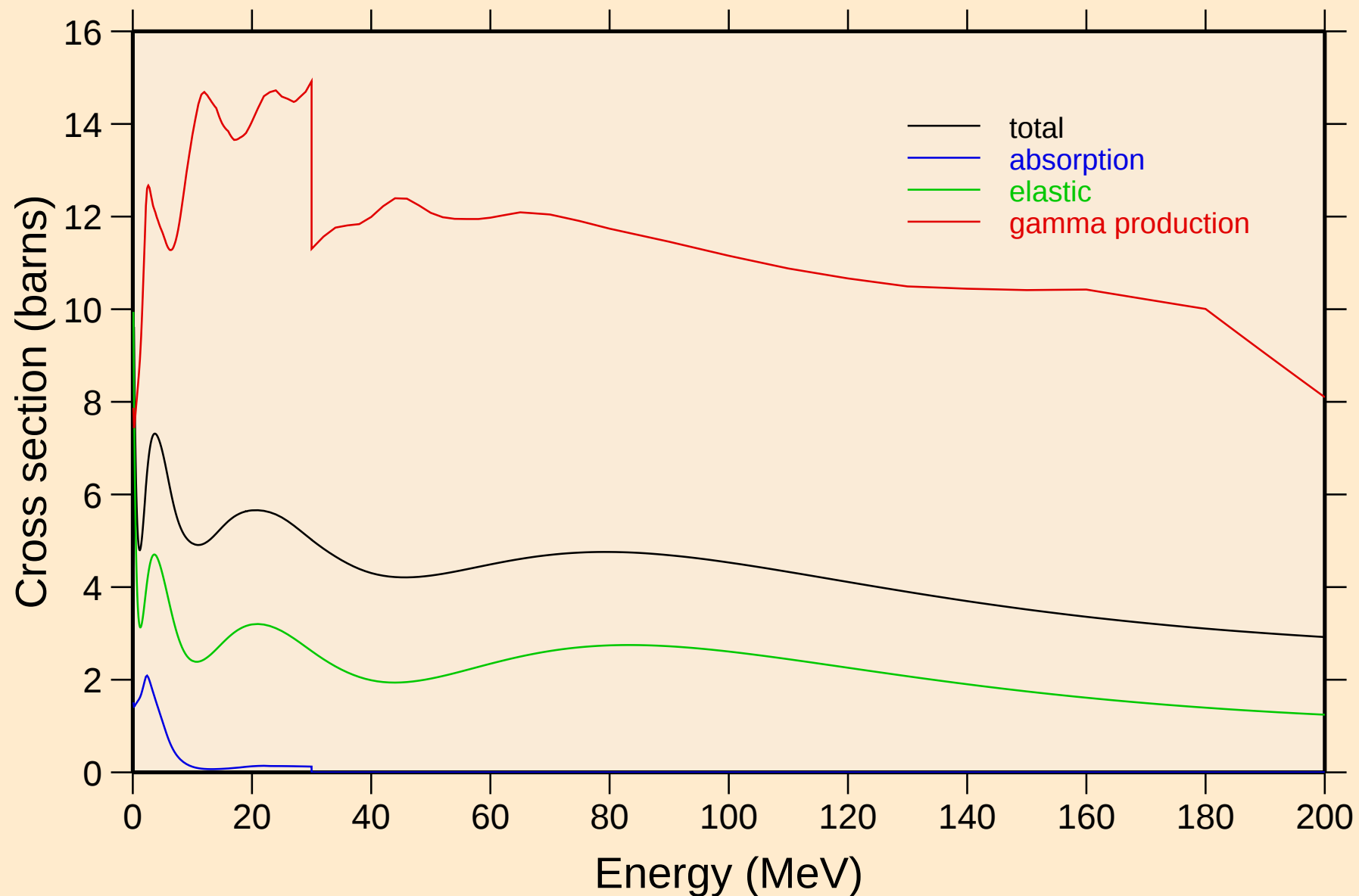


BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Non-threshold reactions

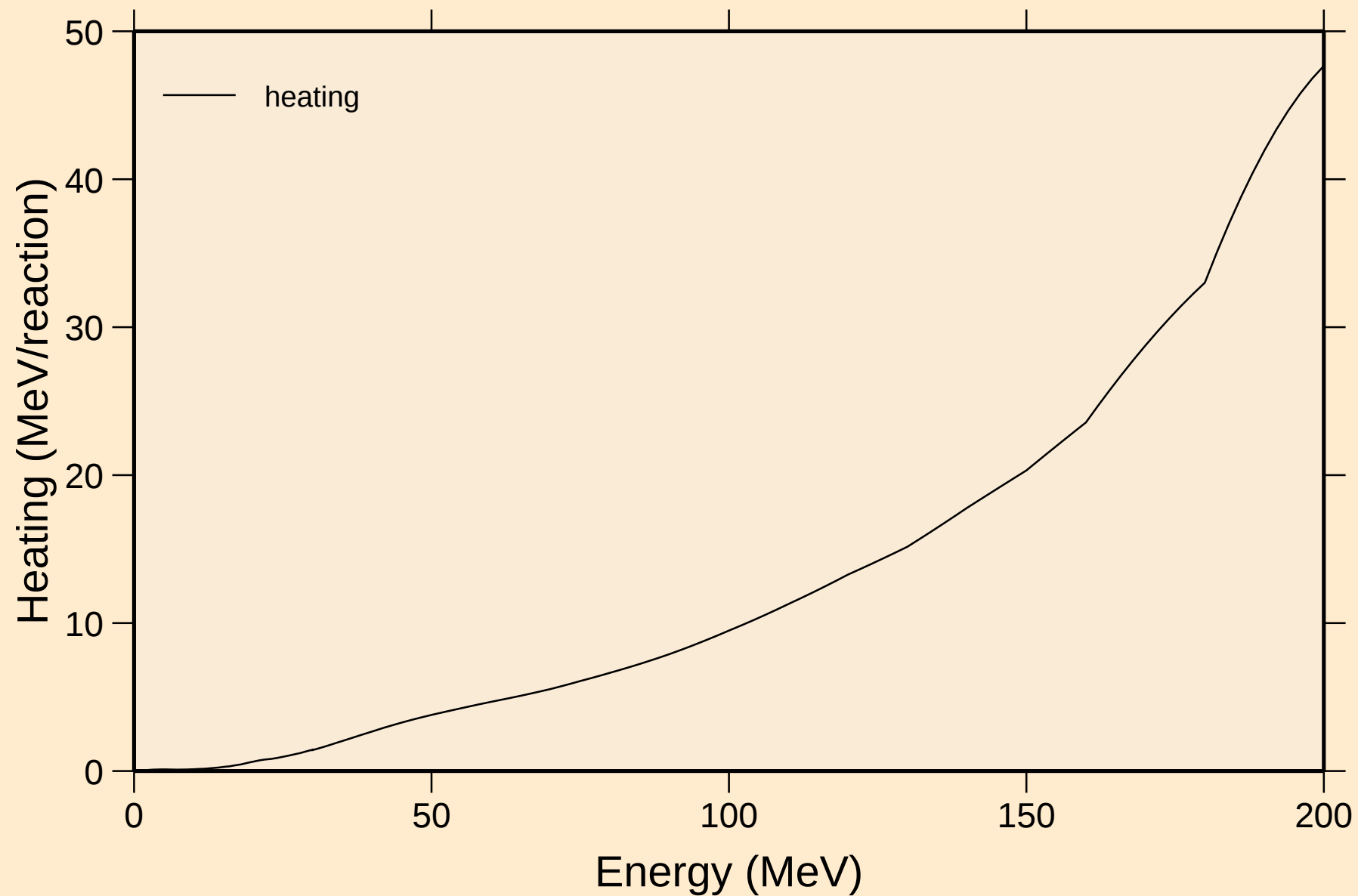


BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

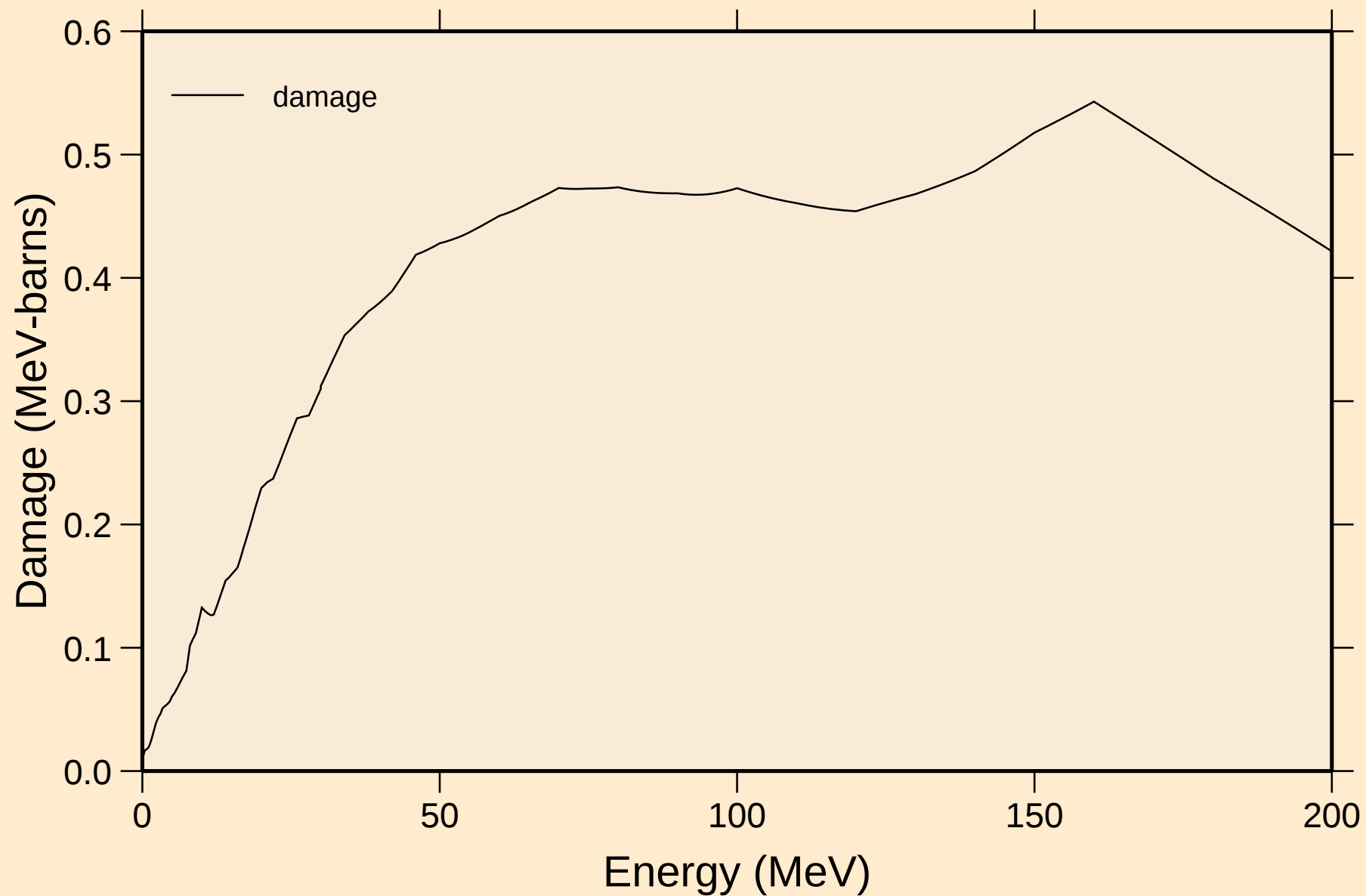
Principal cross sections



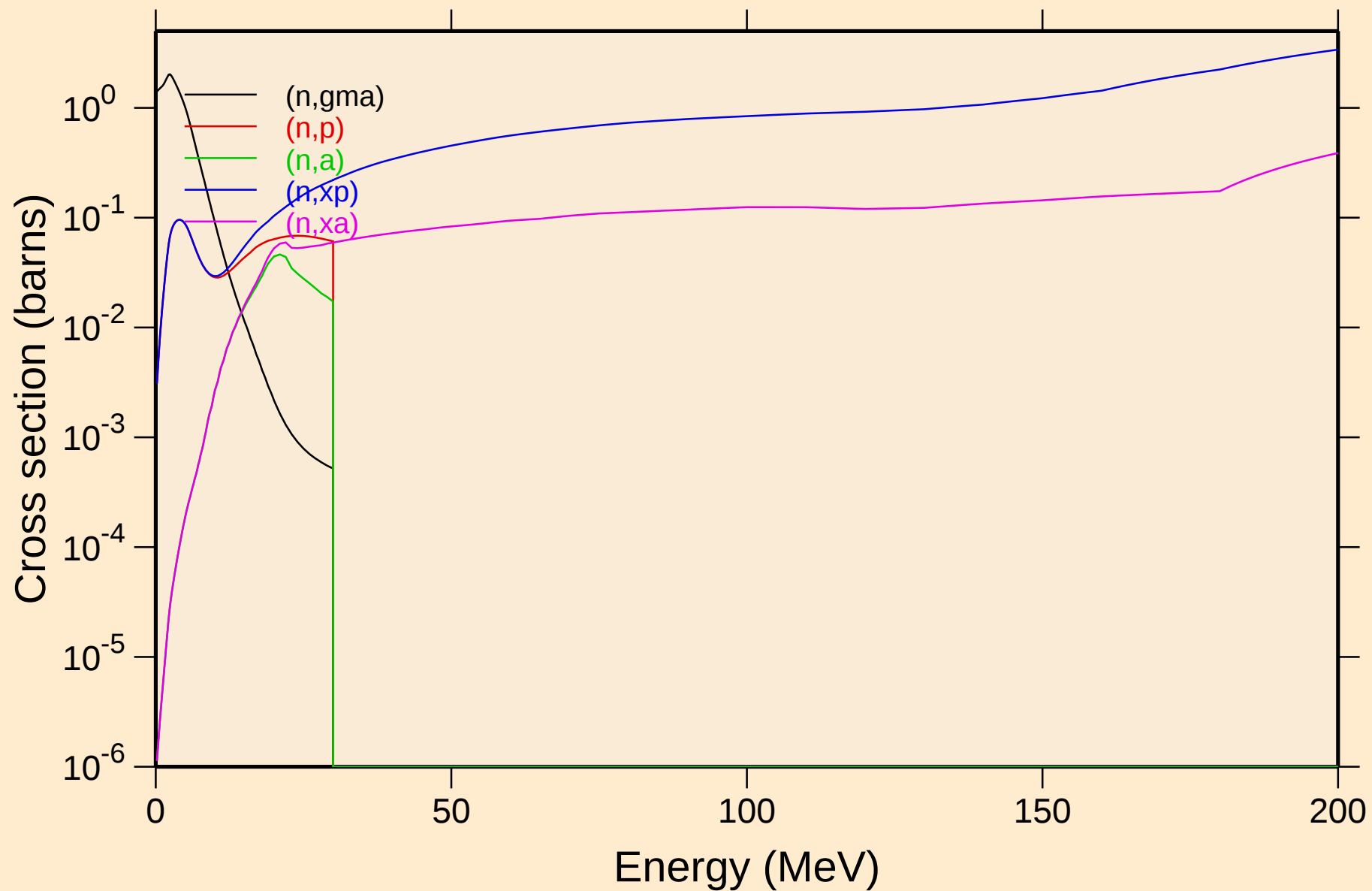
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Heating



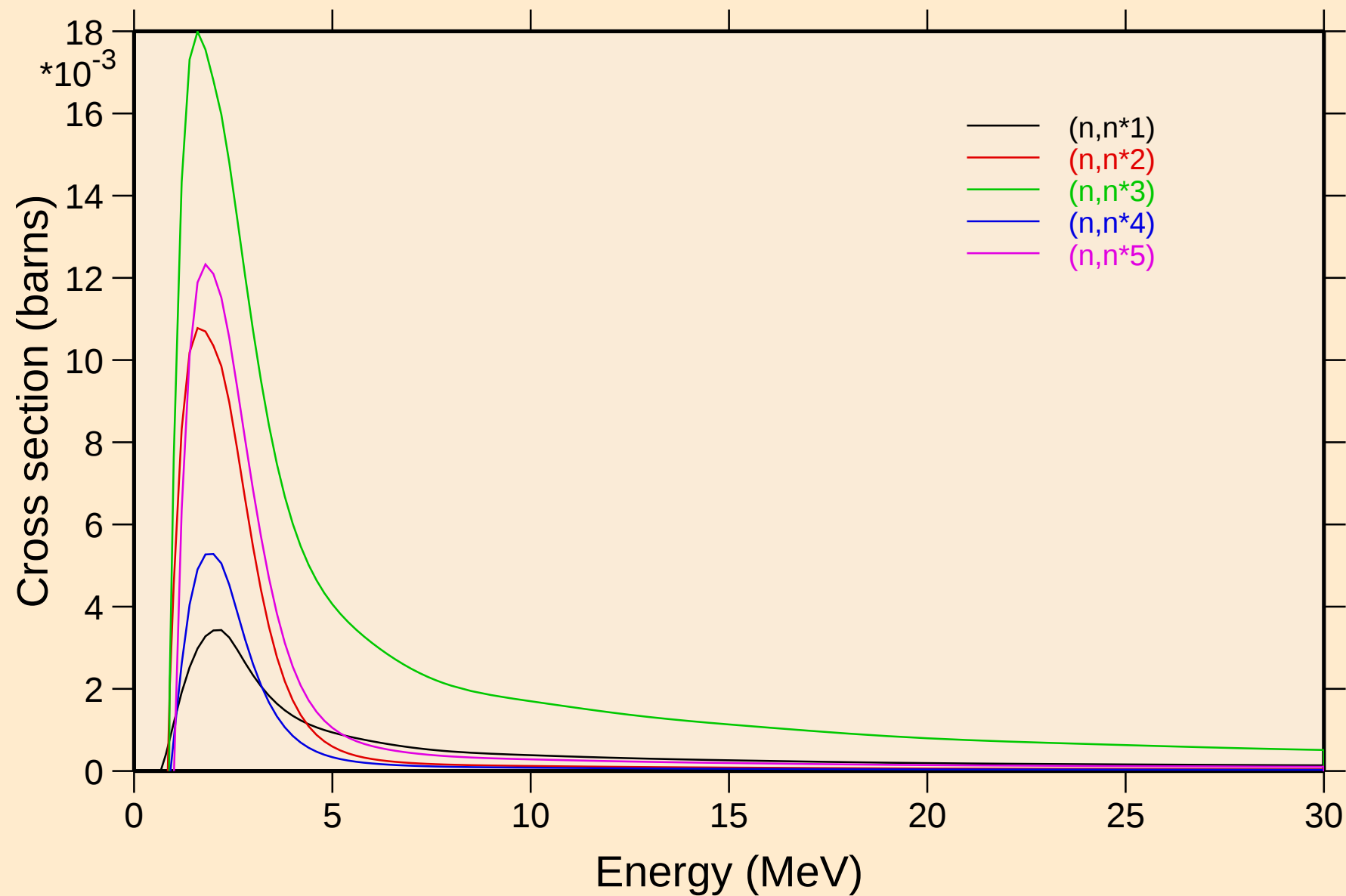
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Damage



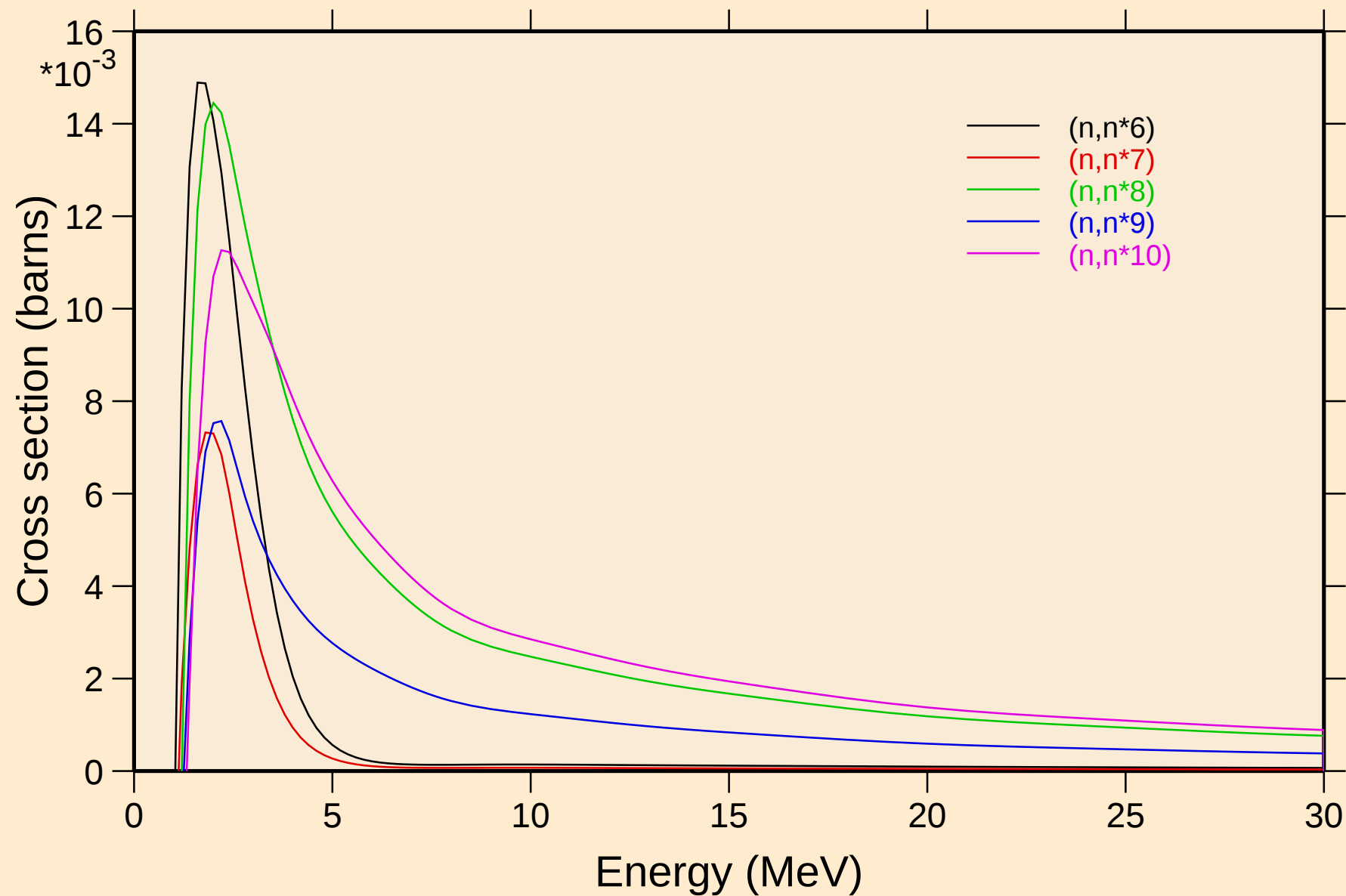
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Non-threshold reactions



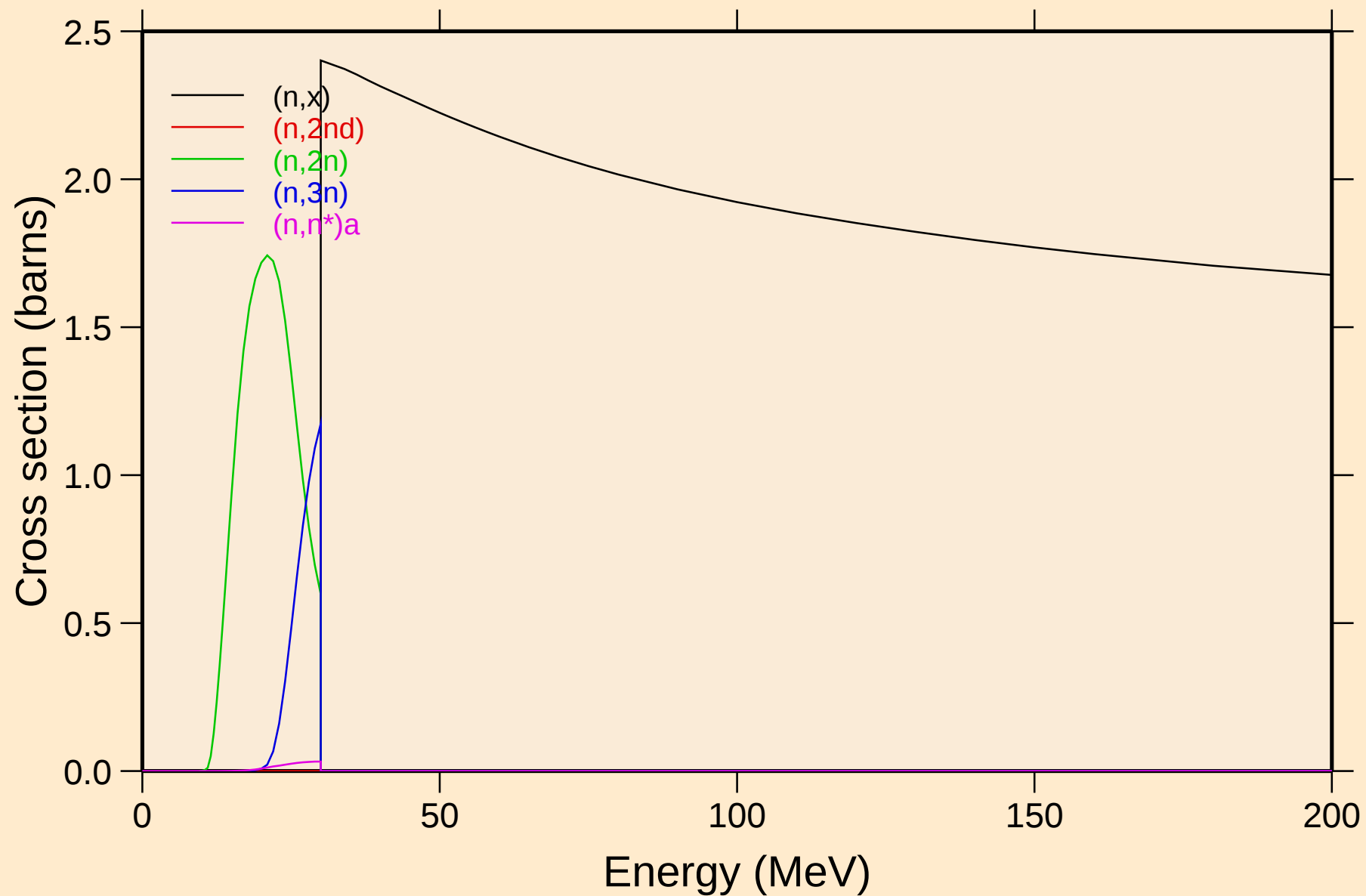
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Inelastic levels



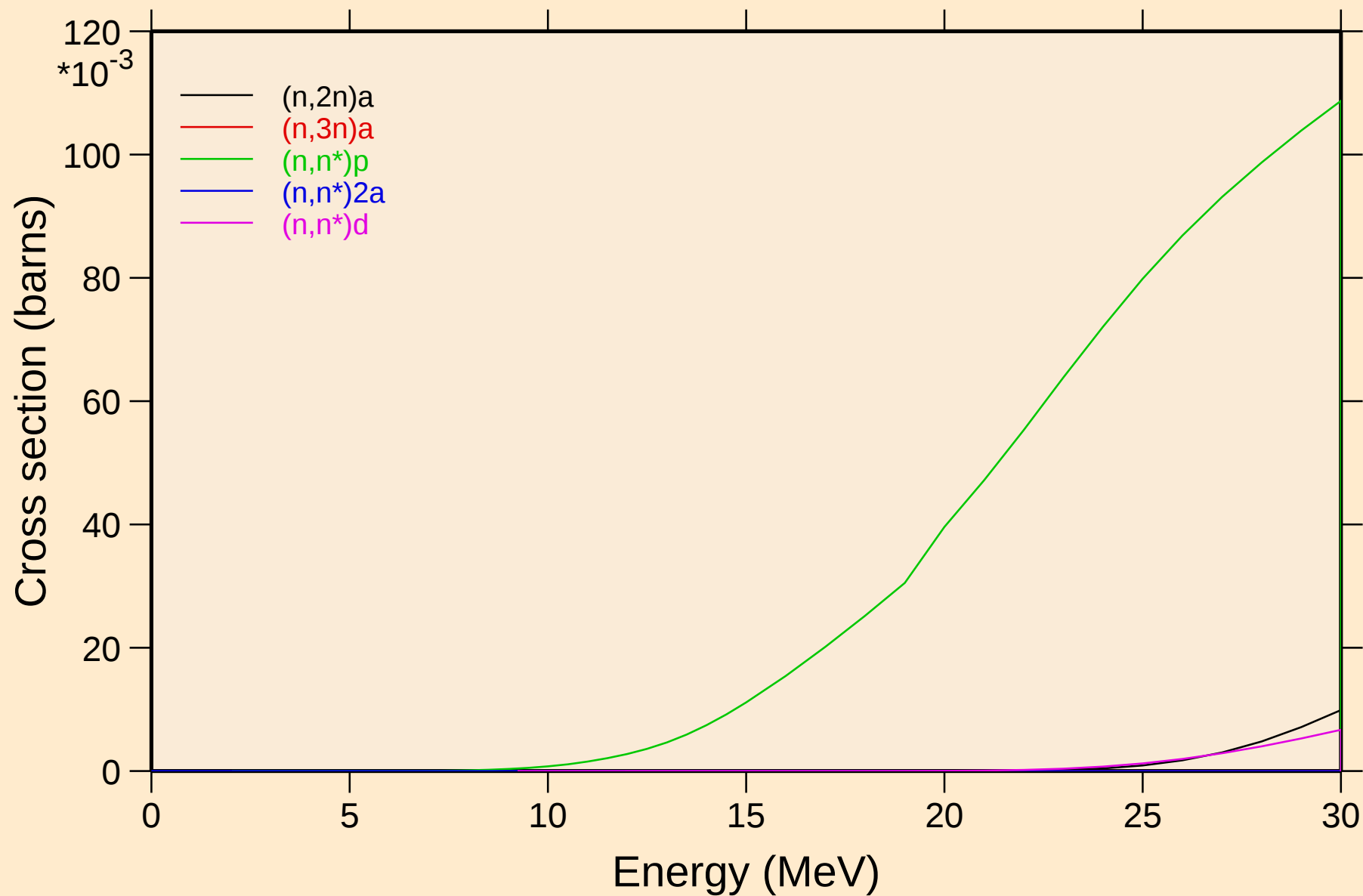
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Inelastic levels



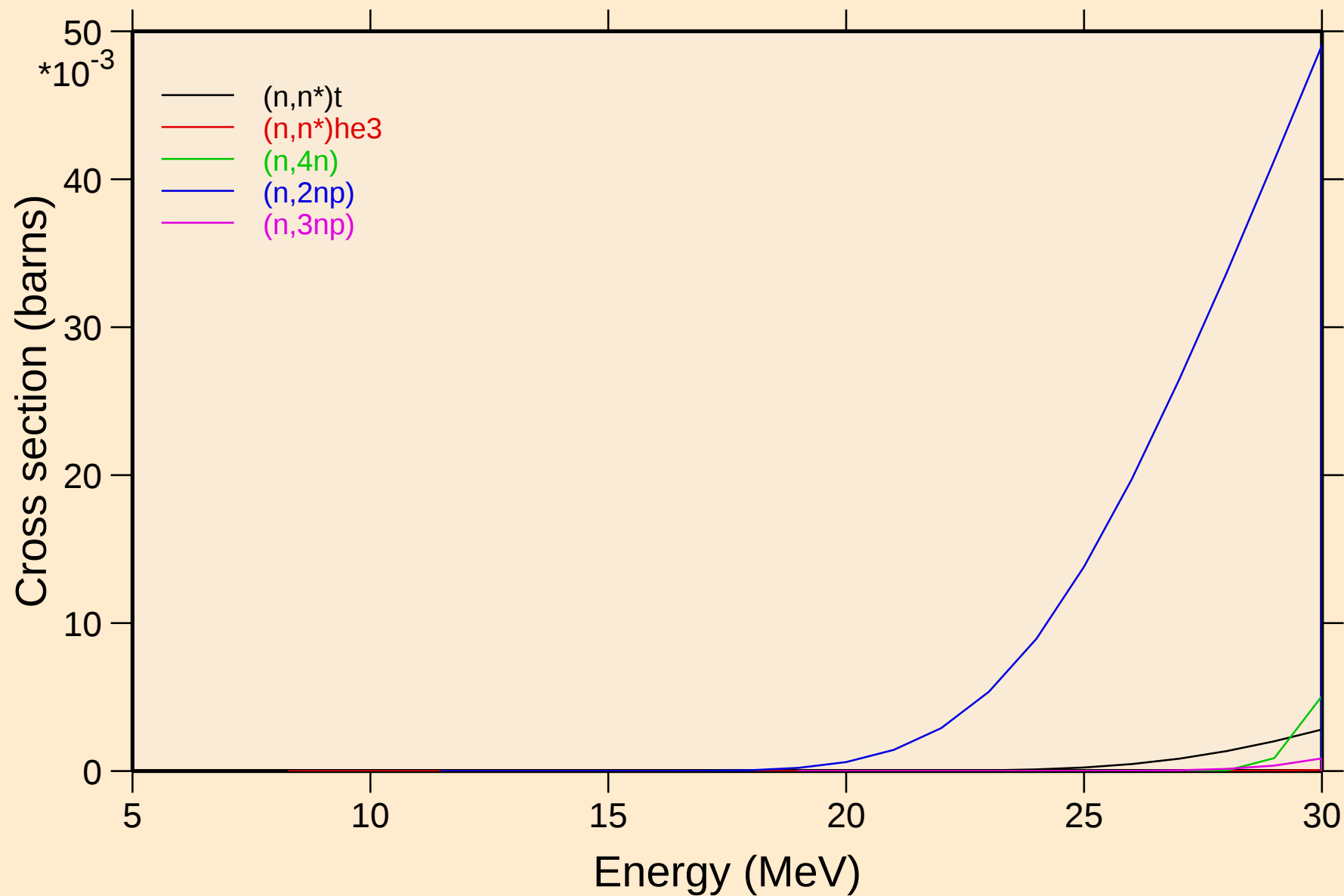
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Threshold reactions



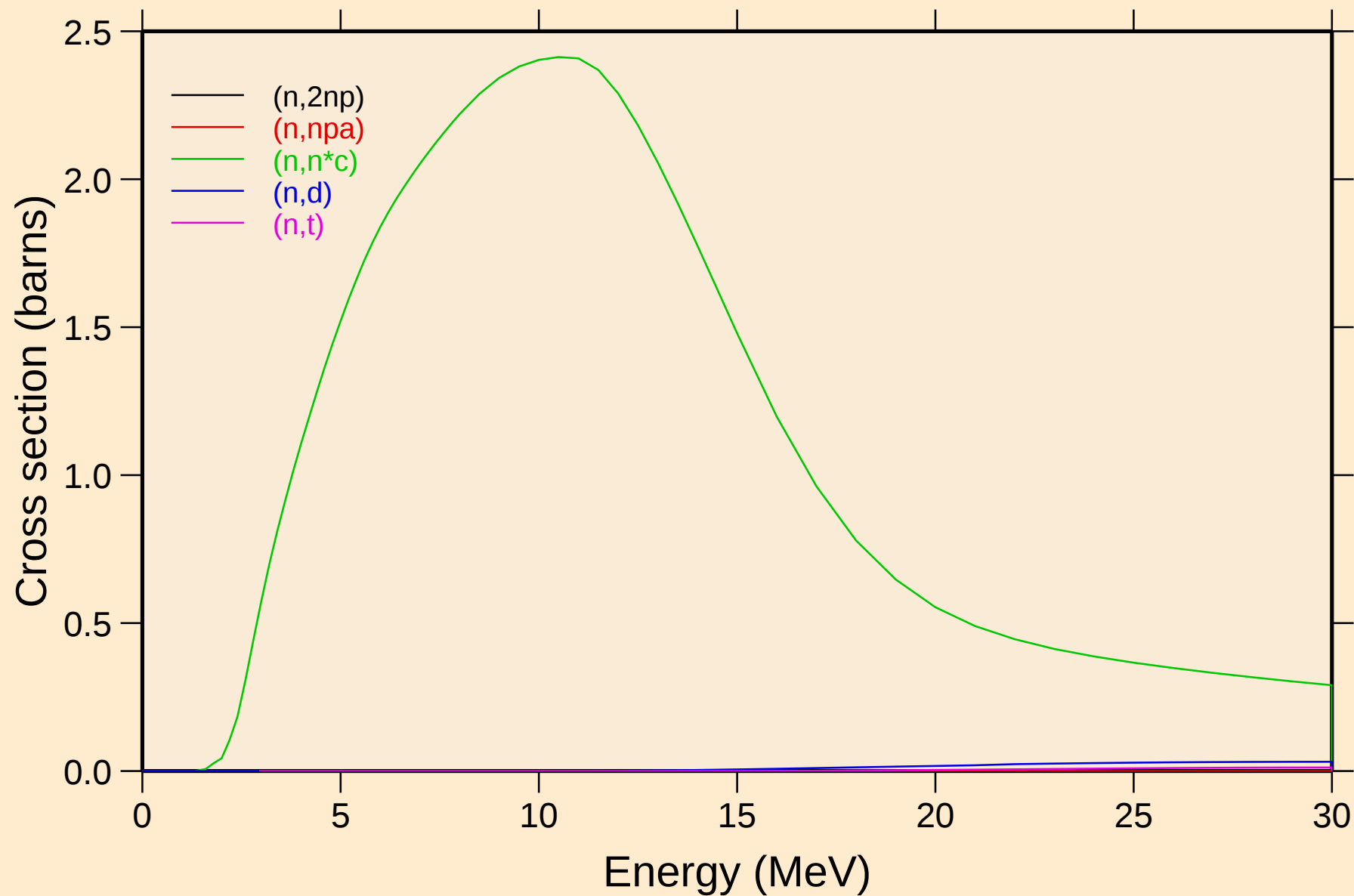
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Threshold reactions



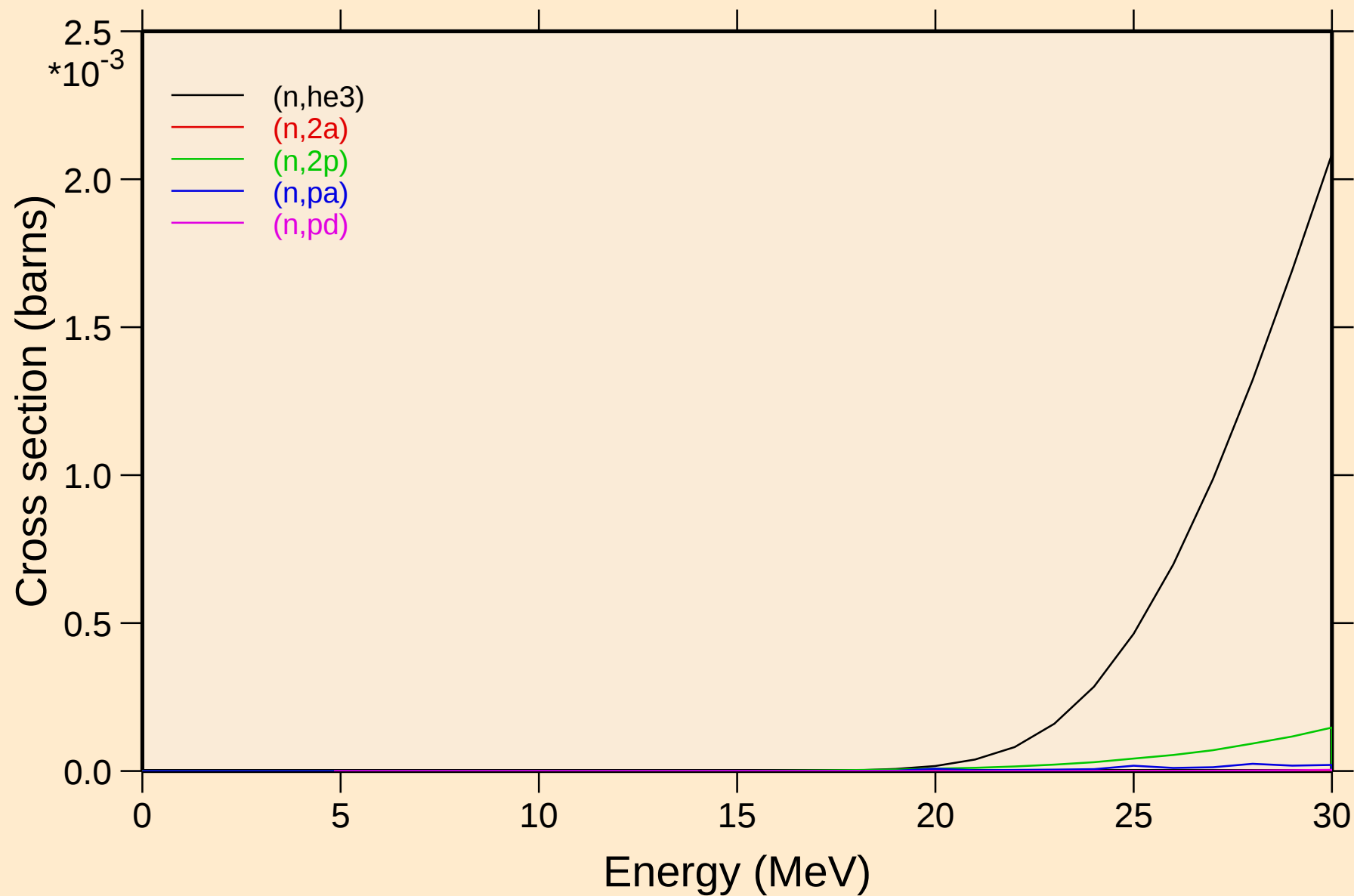
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Threshold reactions



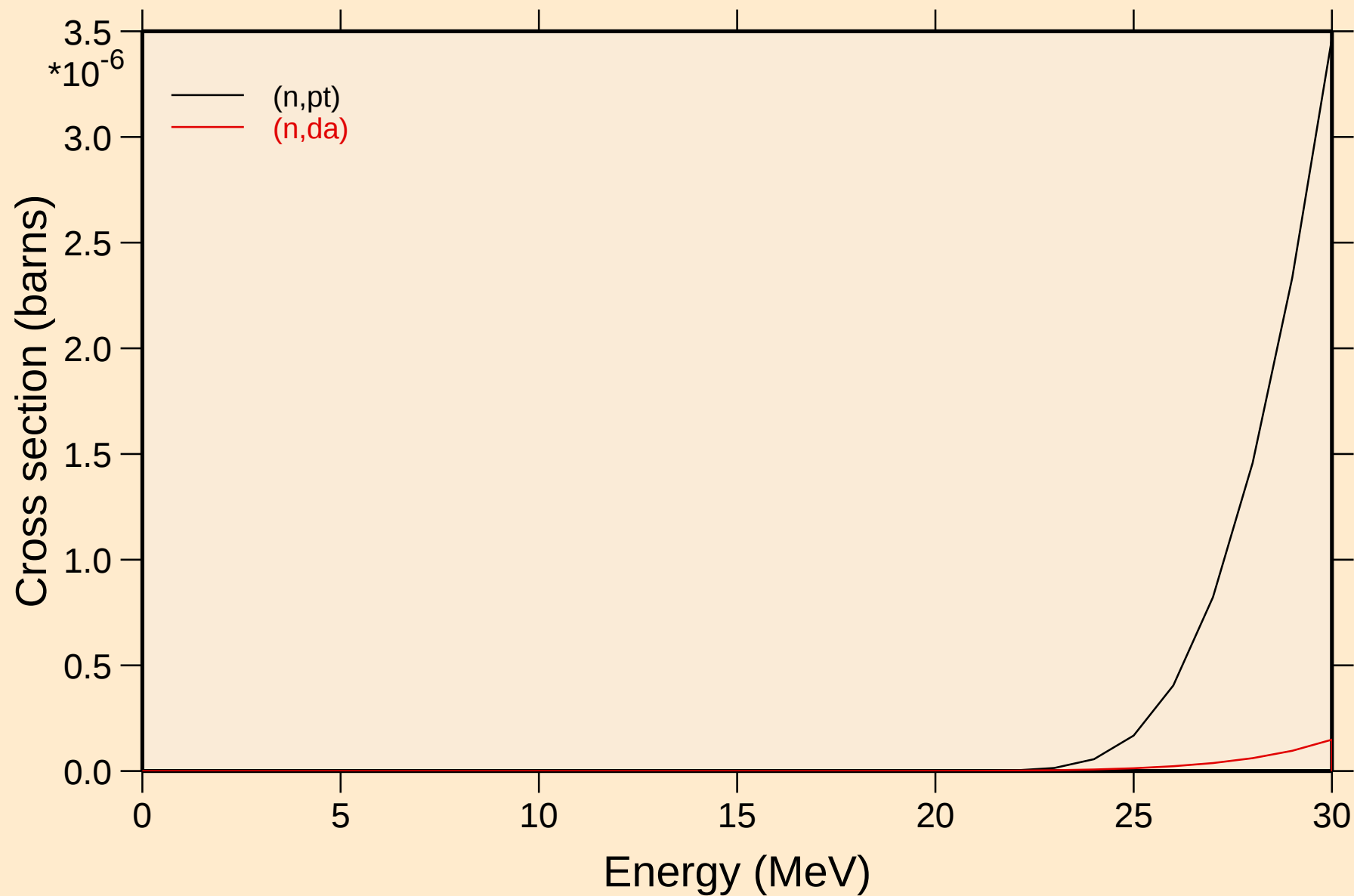
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Threshold reactions



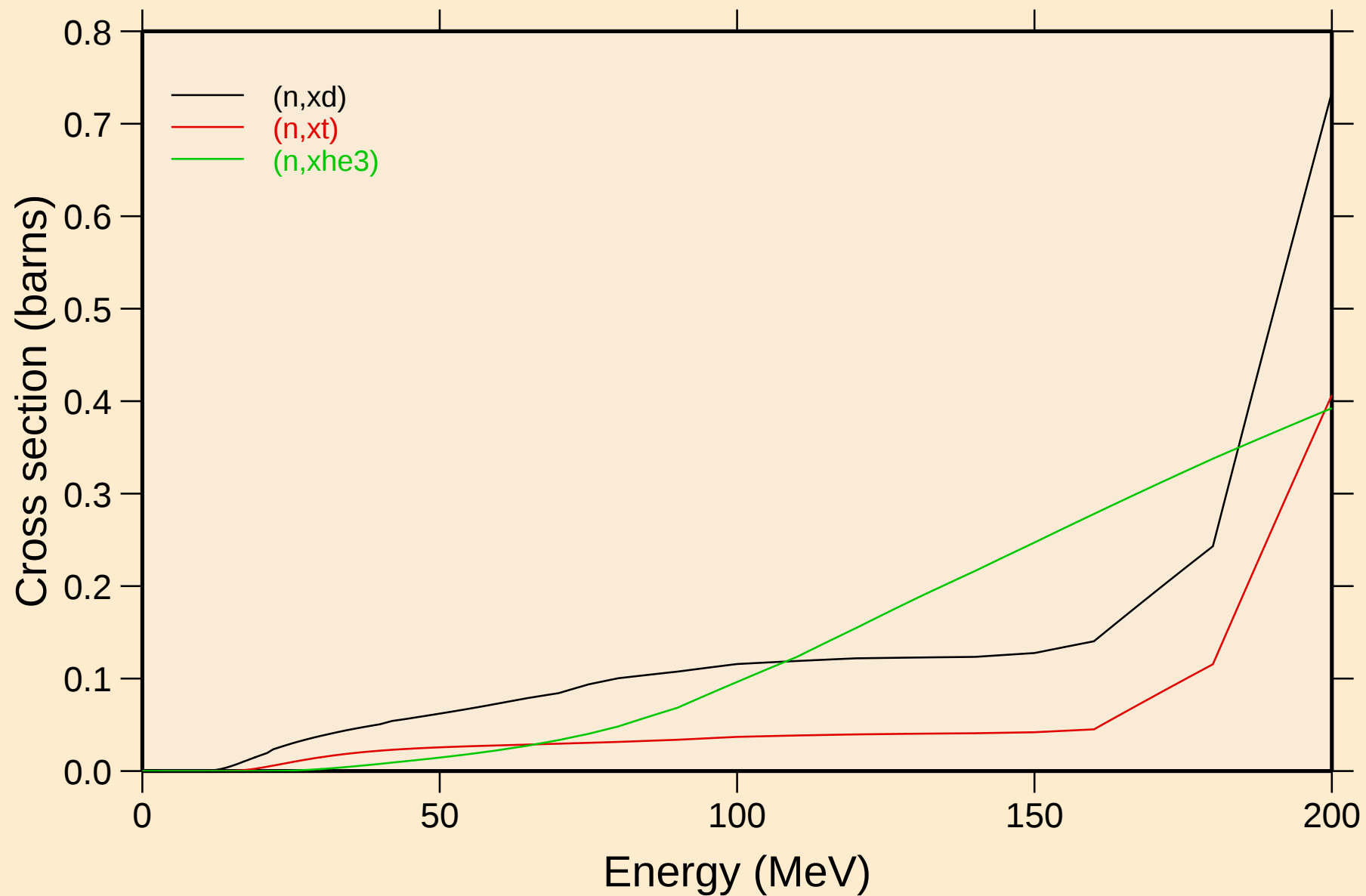
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Threshold reactions



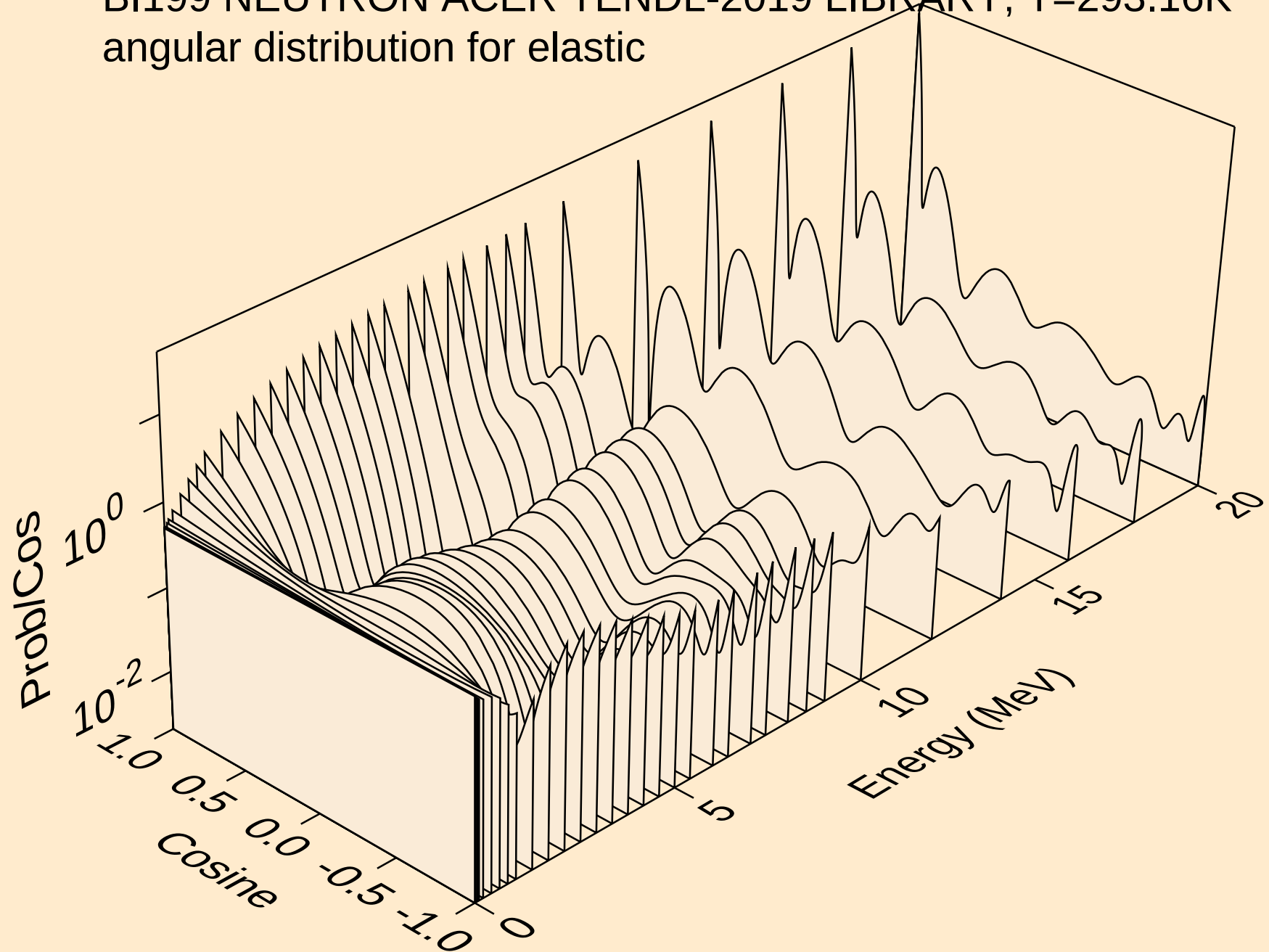
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Threshold reactions



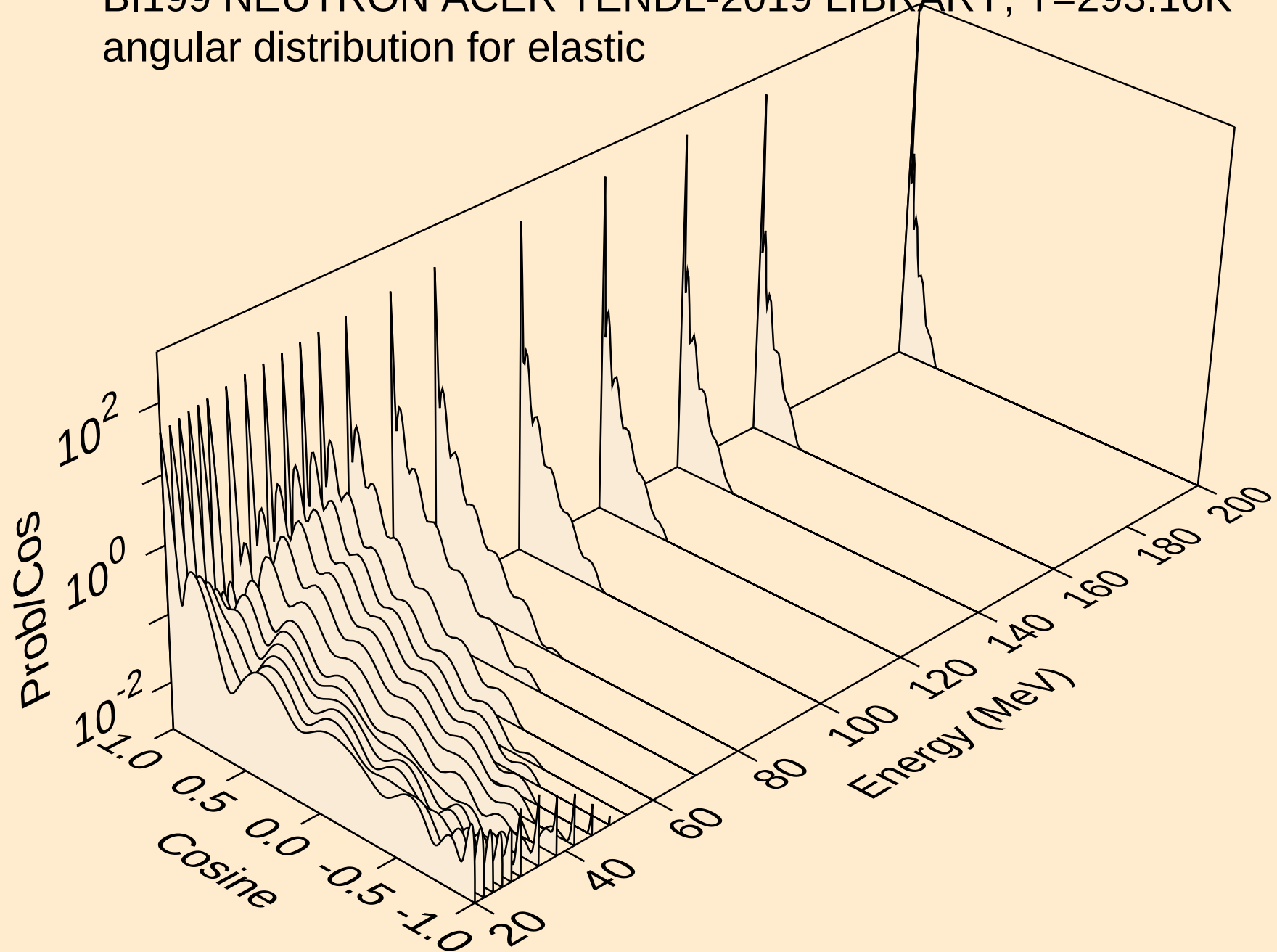
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Threshold reactions



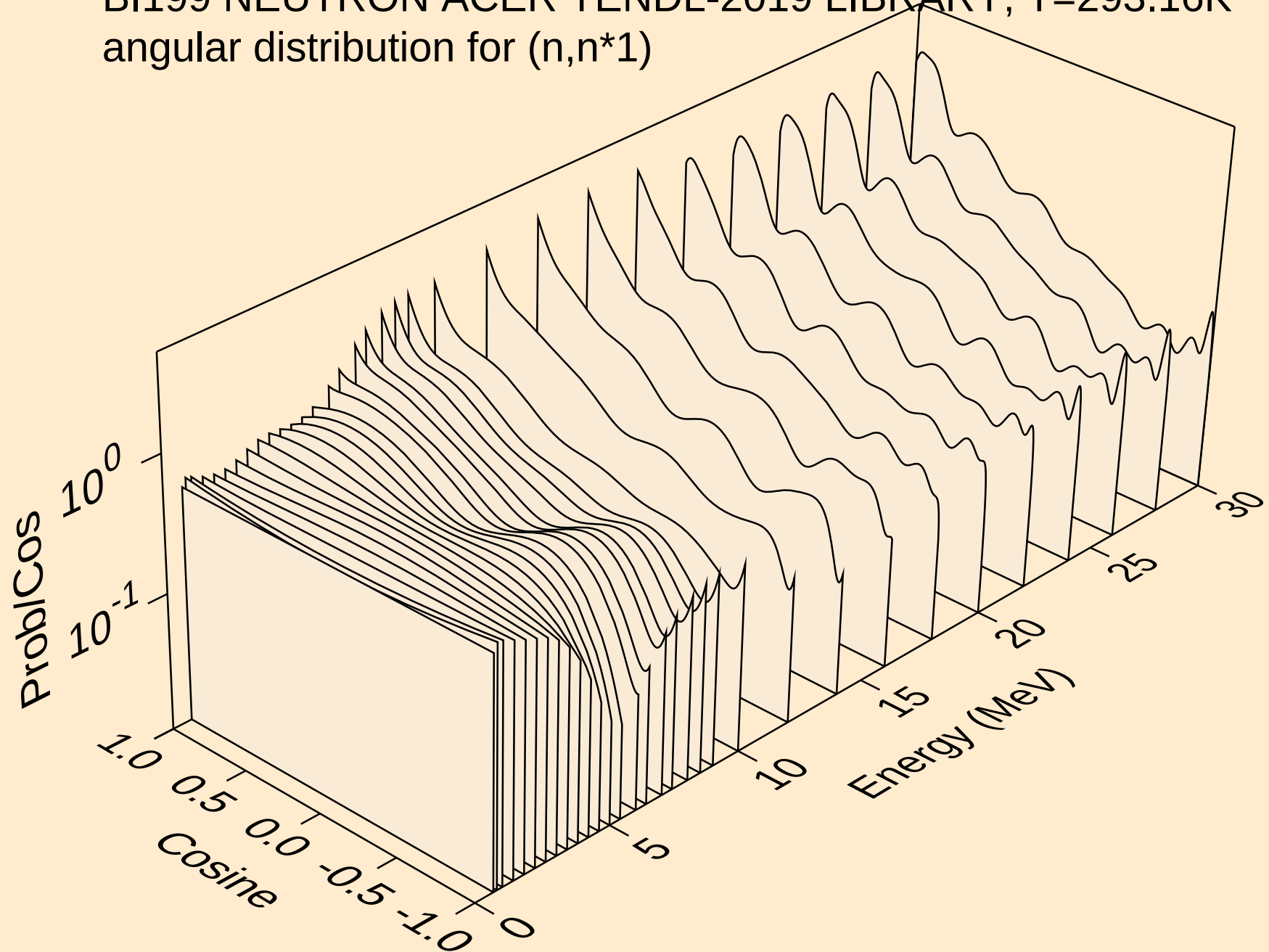
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for elastic



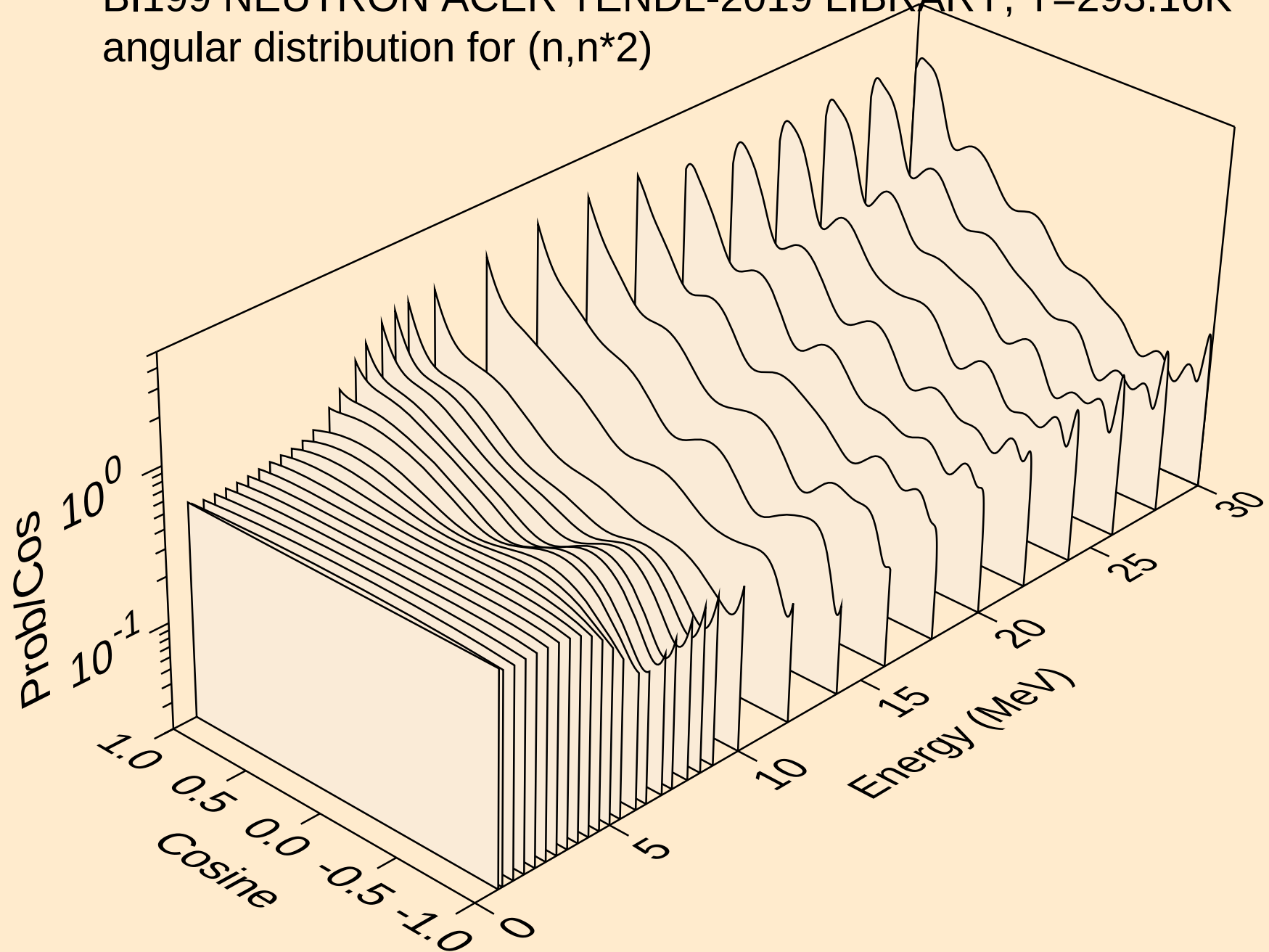
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for elastic



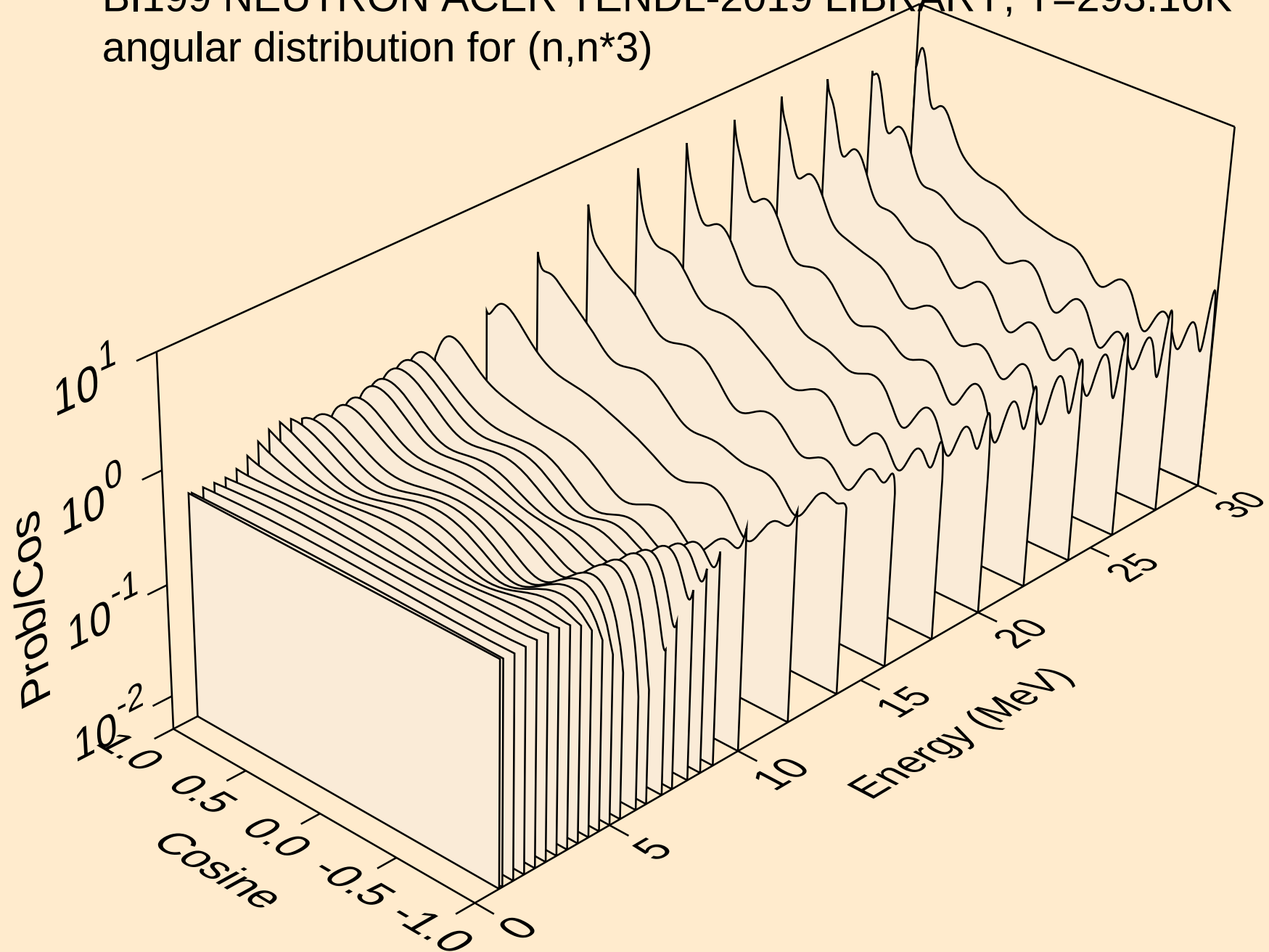
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*1)



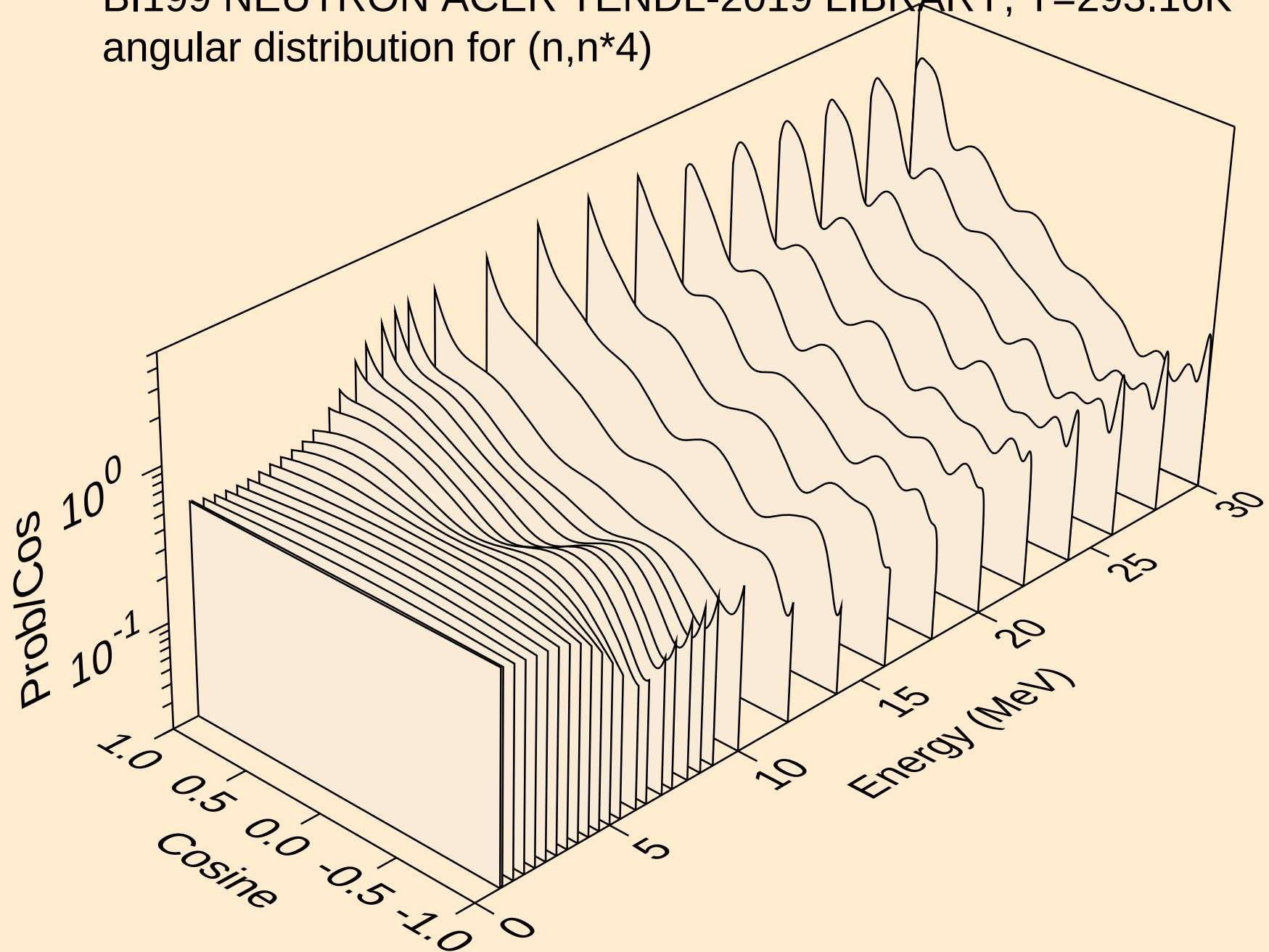
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*2)



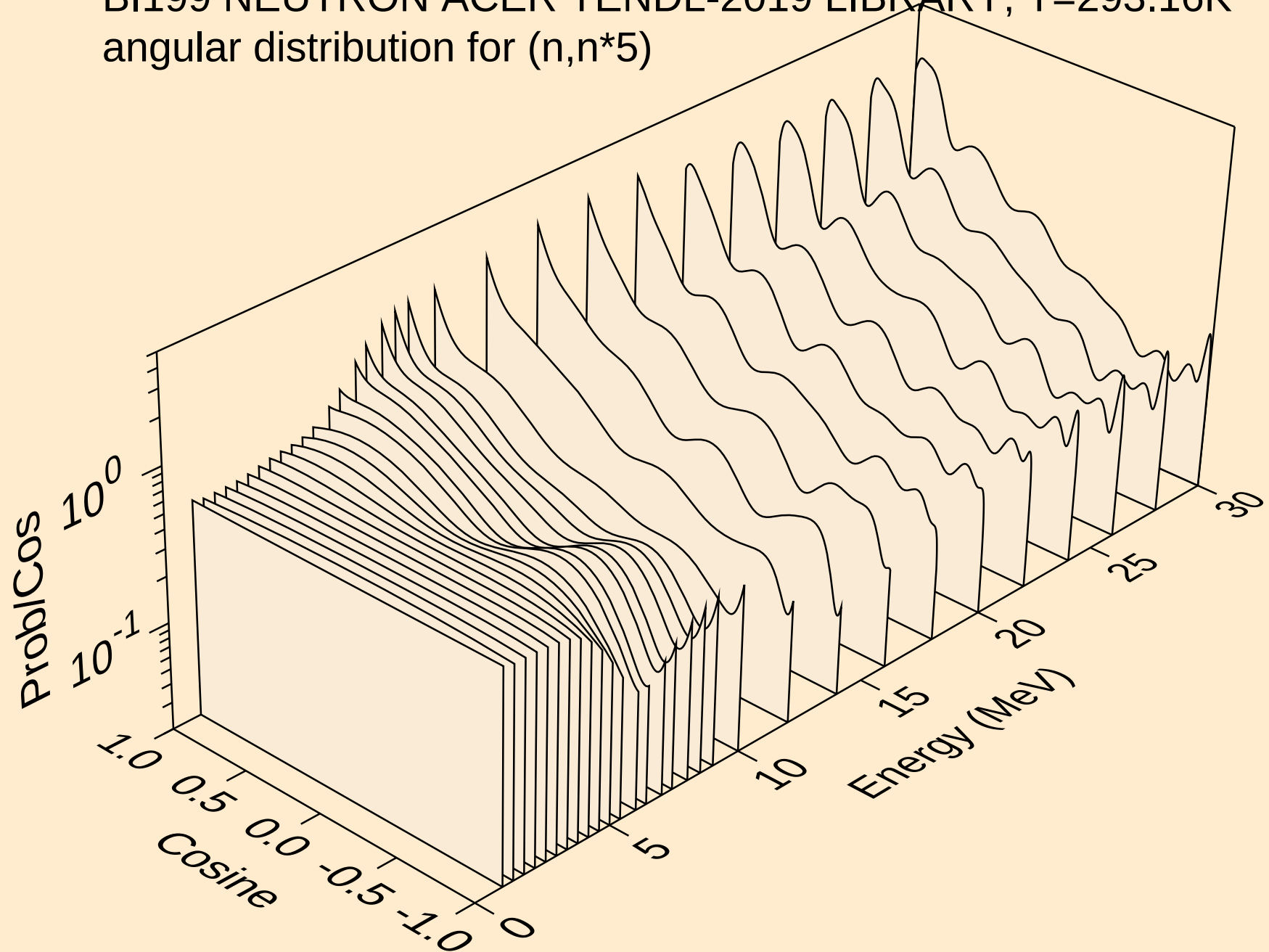
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*3)



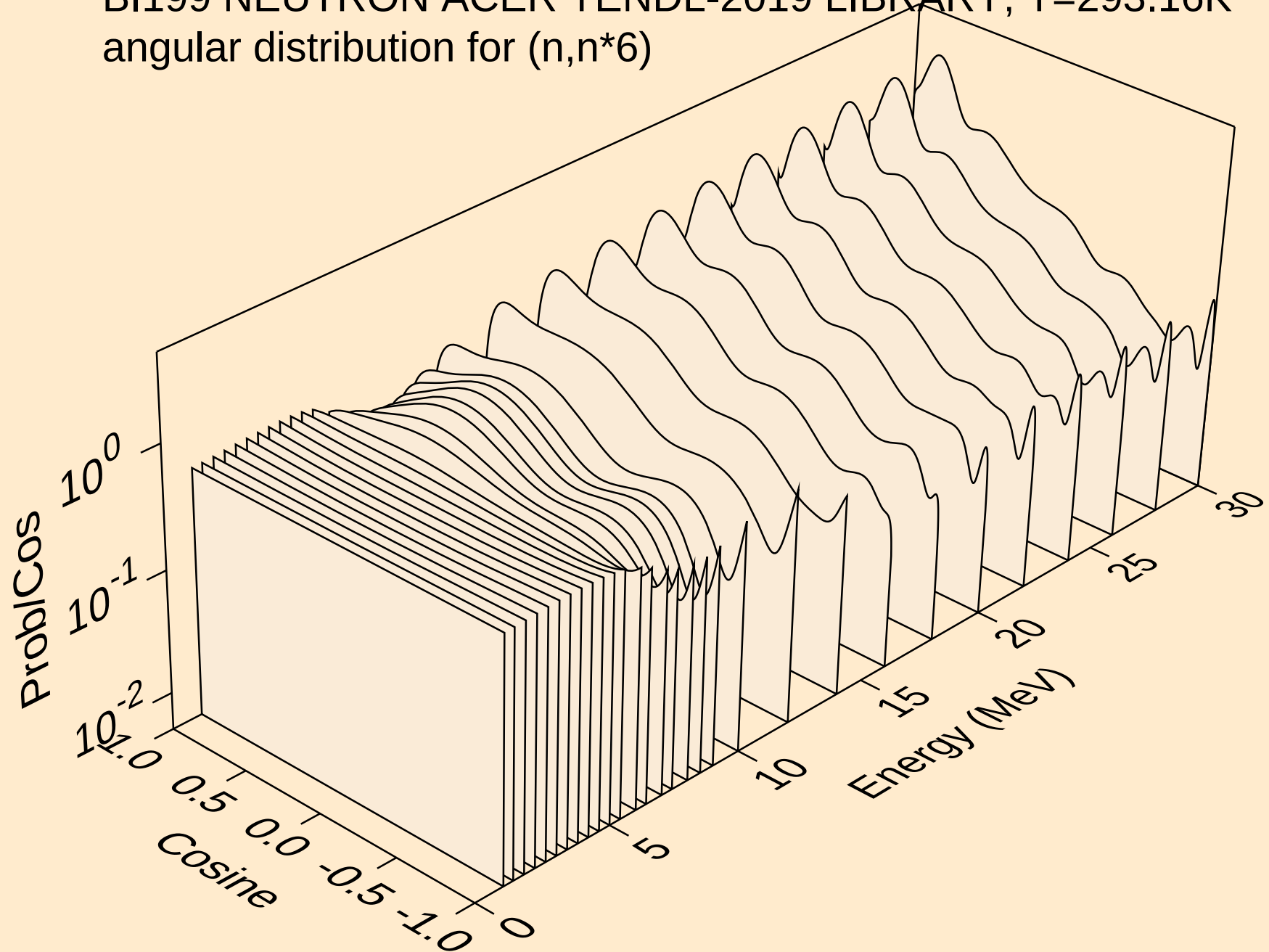
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angular distribution for (n,n*4)



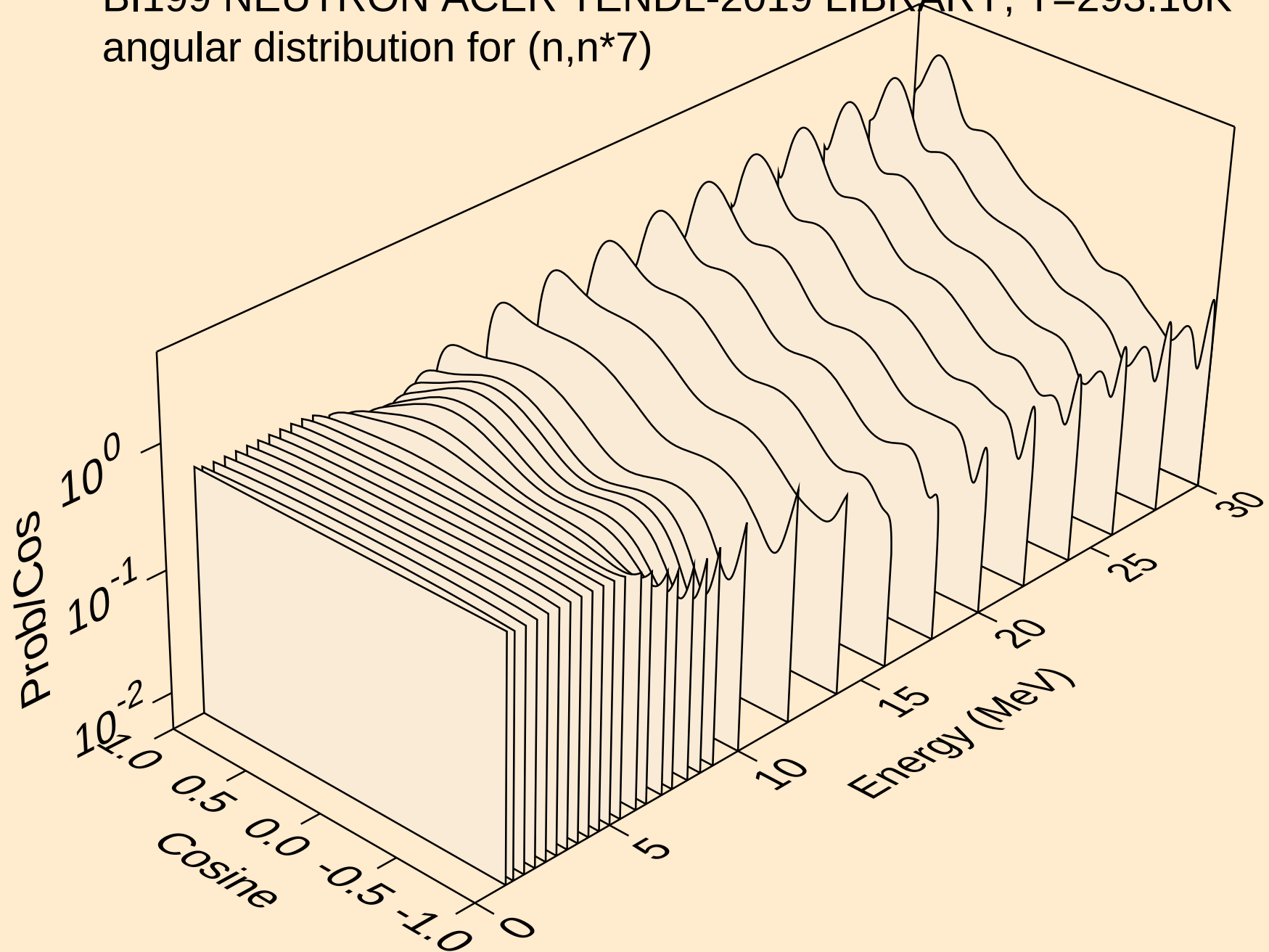
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angular distribution for (n,n*5)



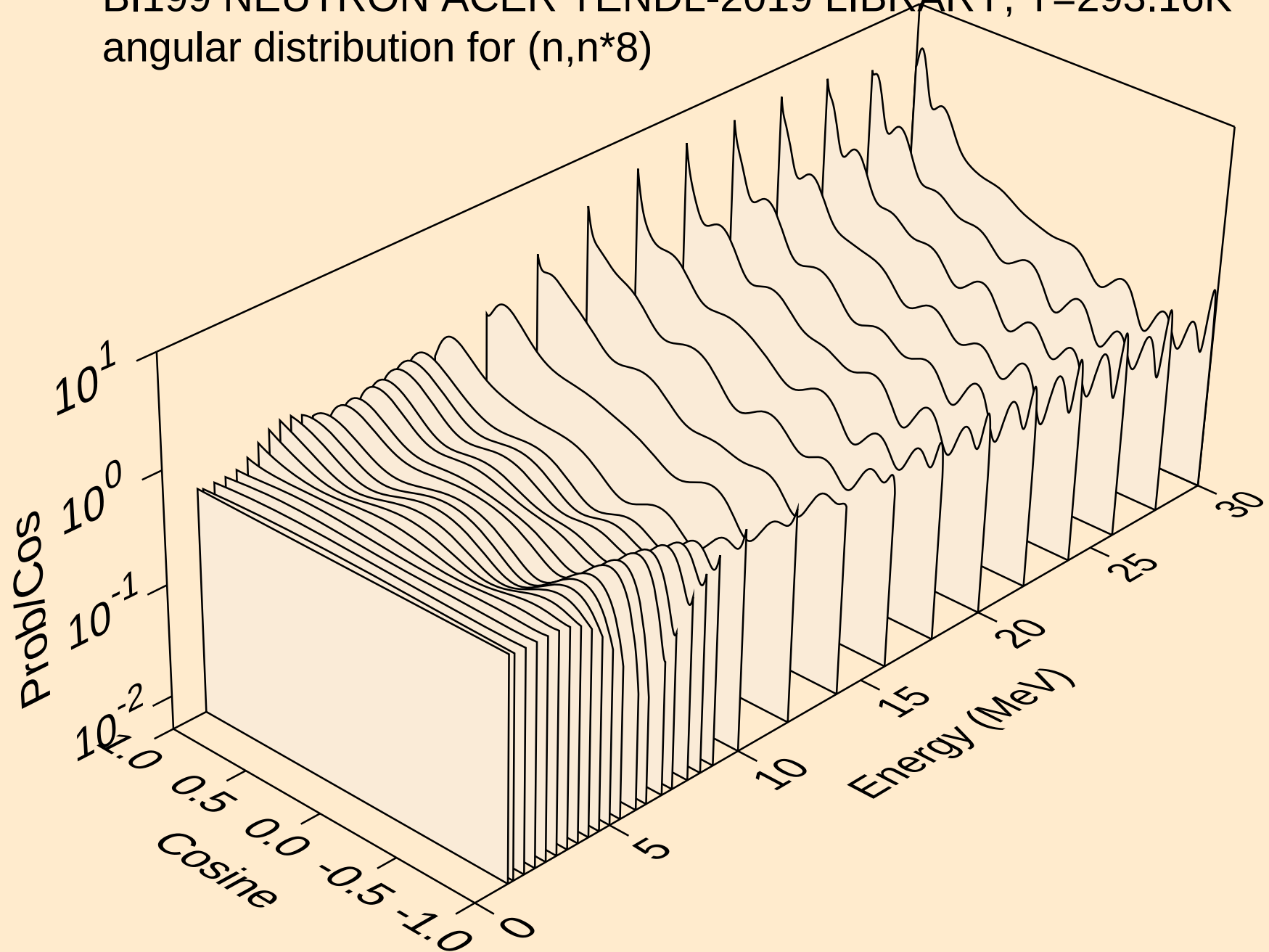
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angular distribution for (n,n*6)



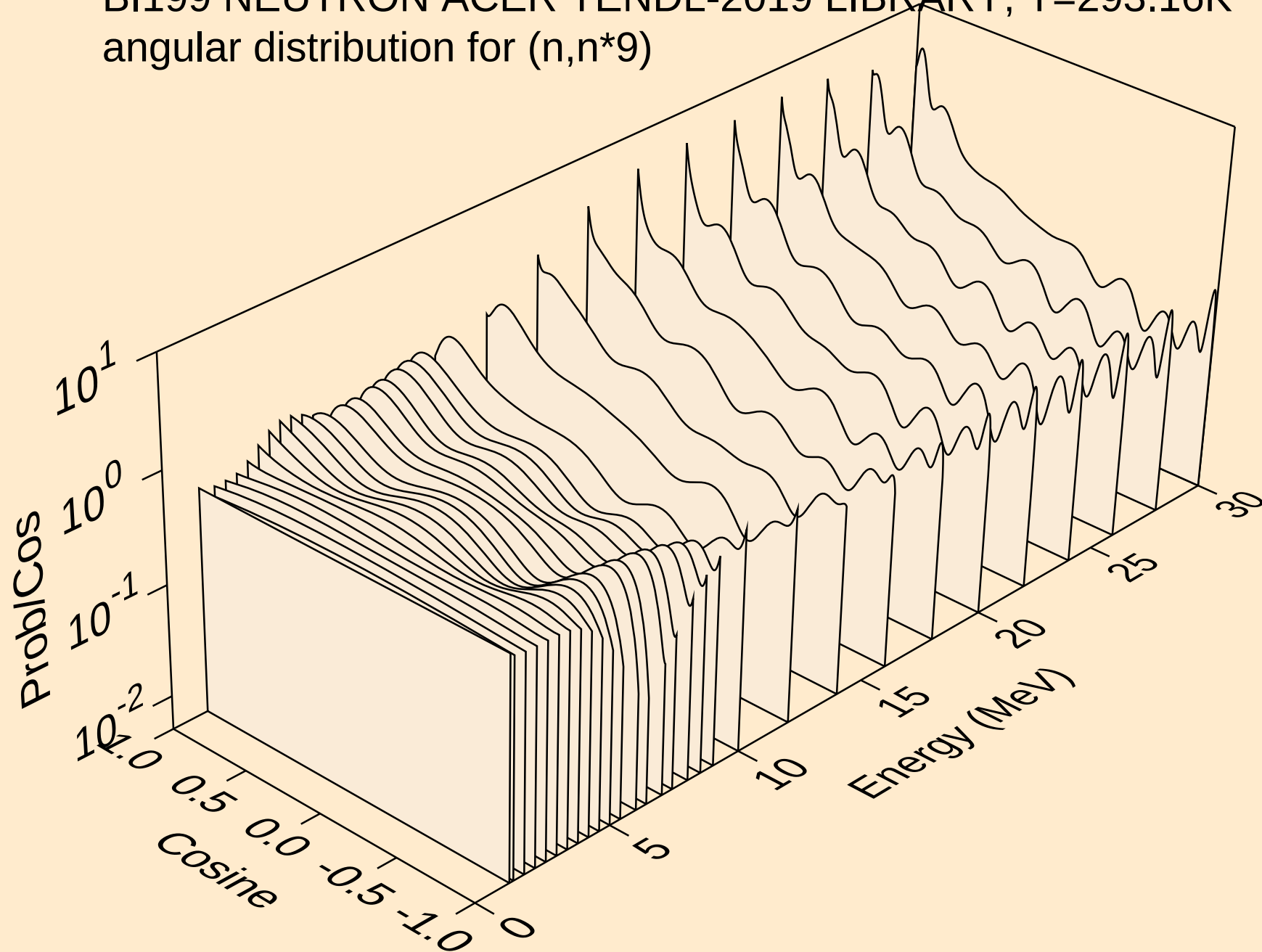
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angular distribution for (n,n*7)



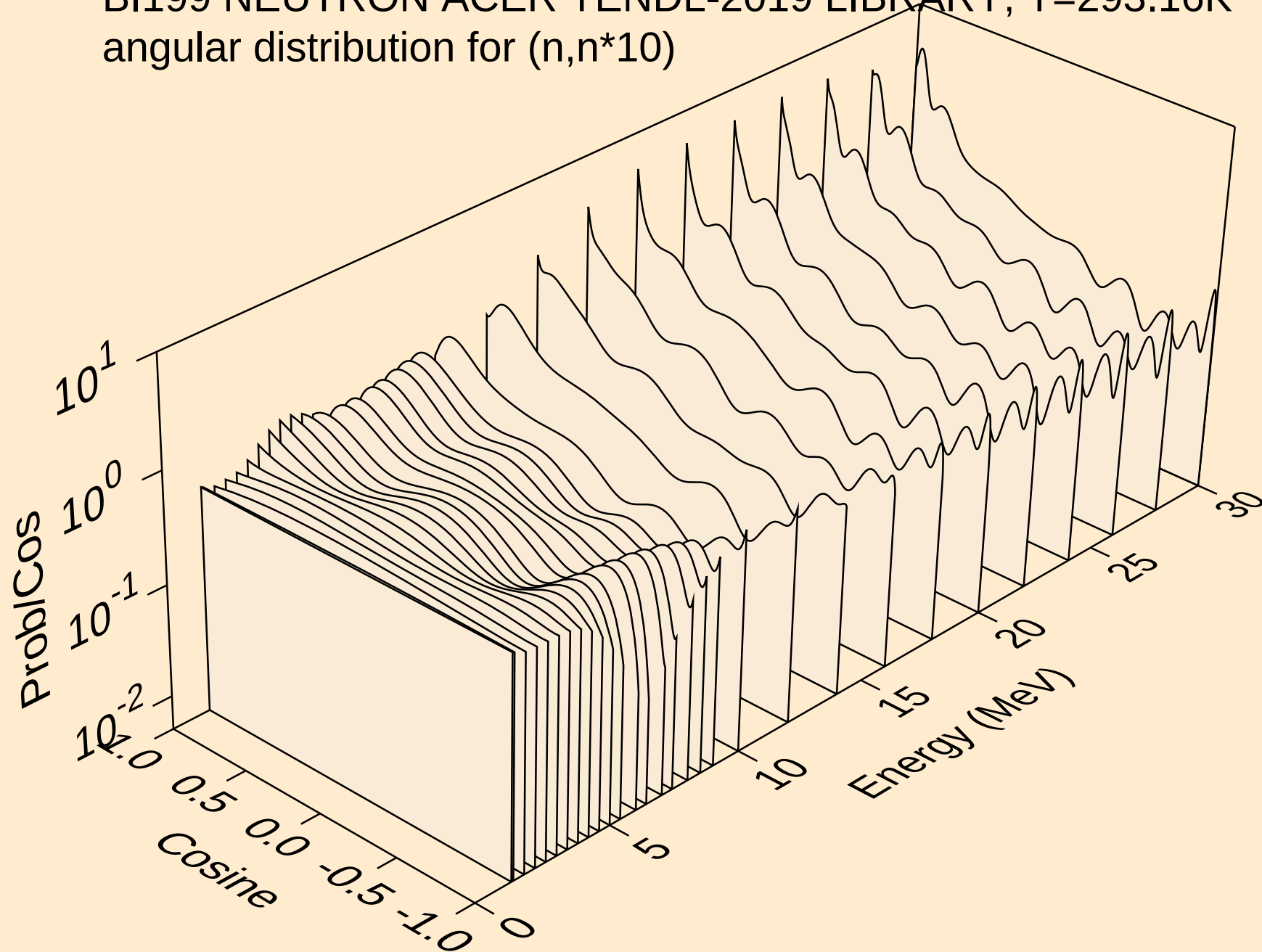
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angular distribution for (n,n*8)



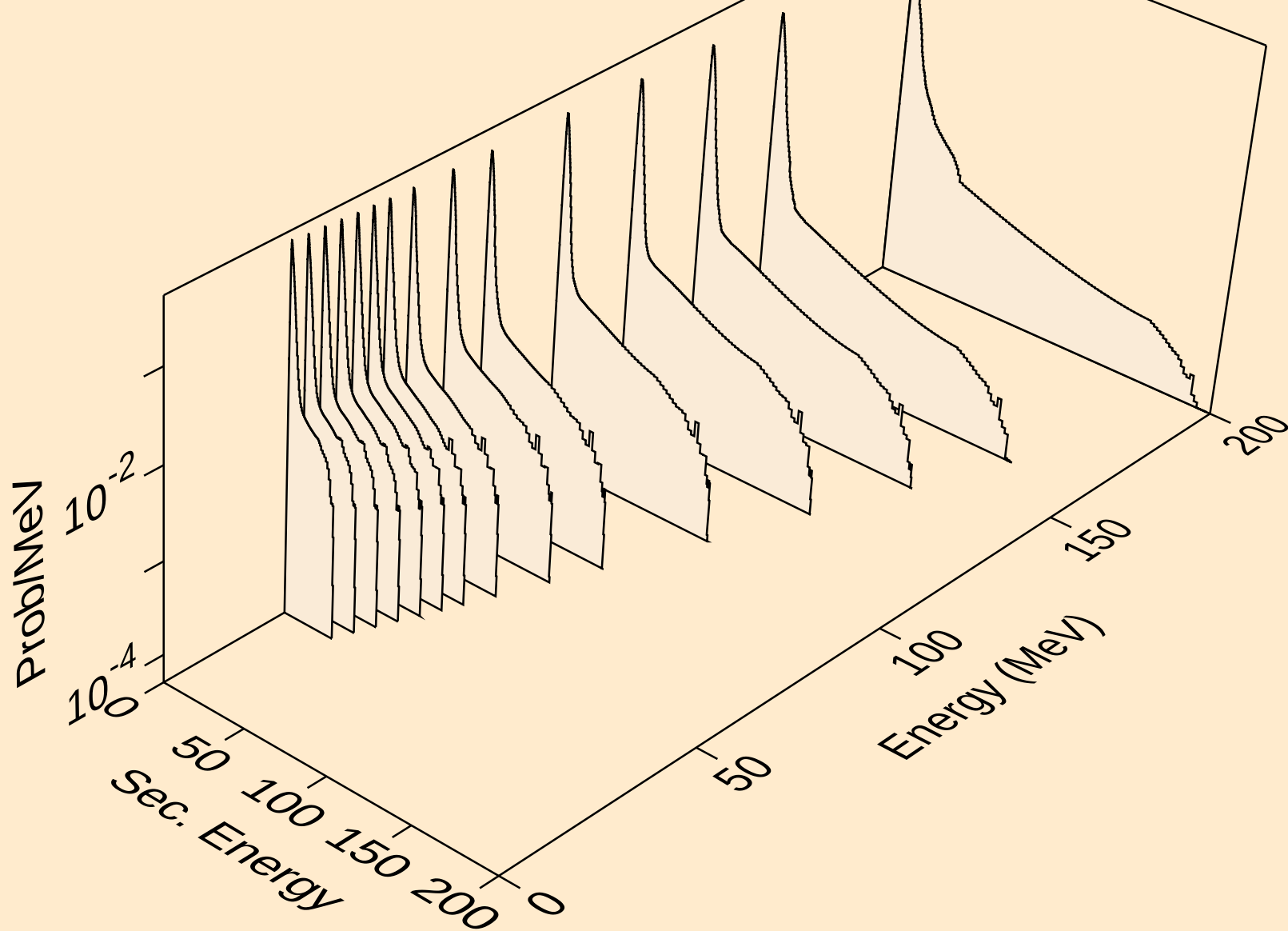
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angular distribution for (n,n*9)



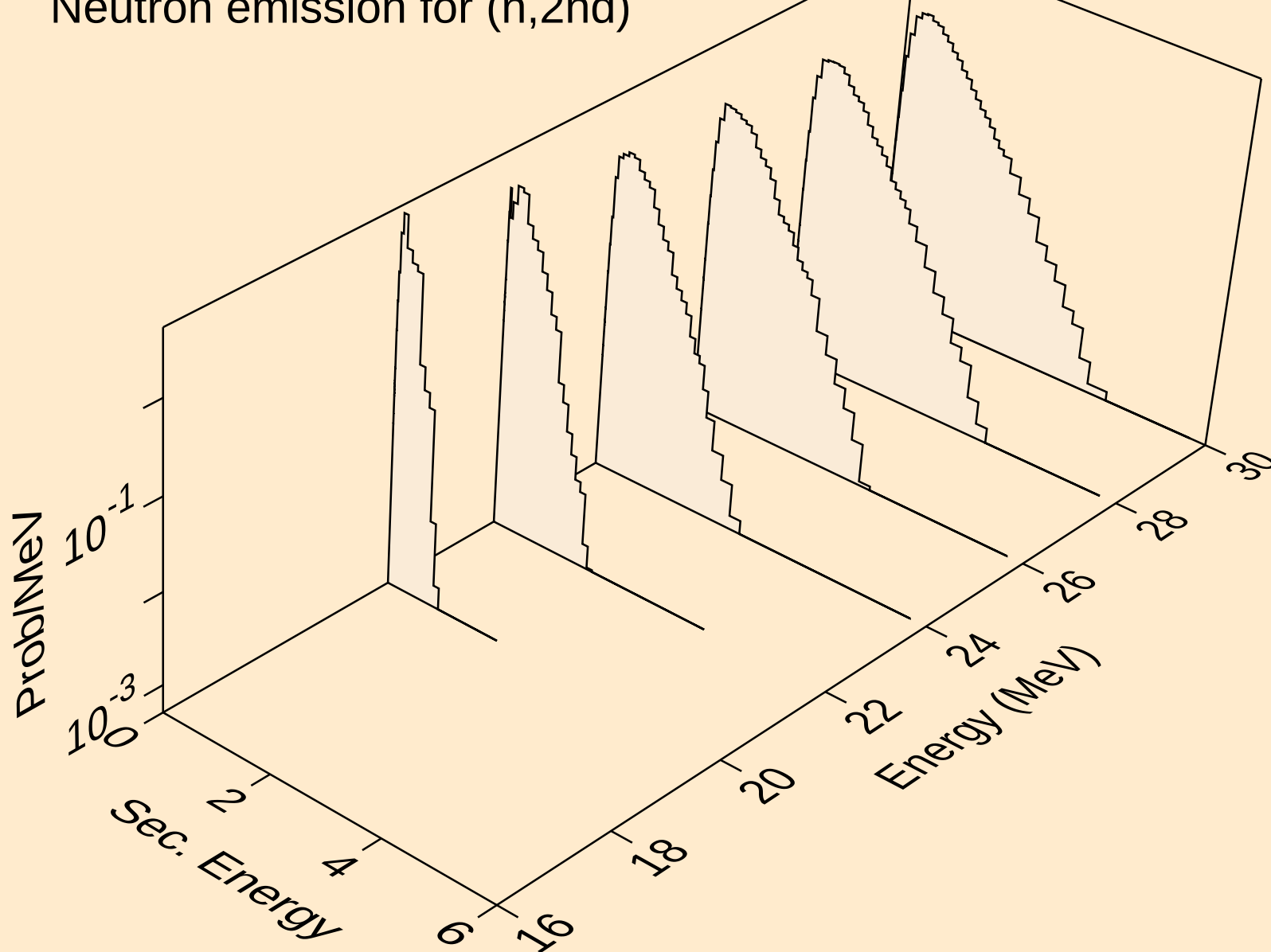
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angular distribution for (n,n*10)



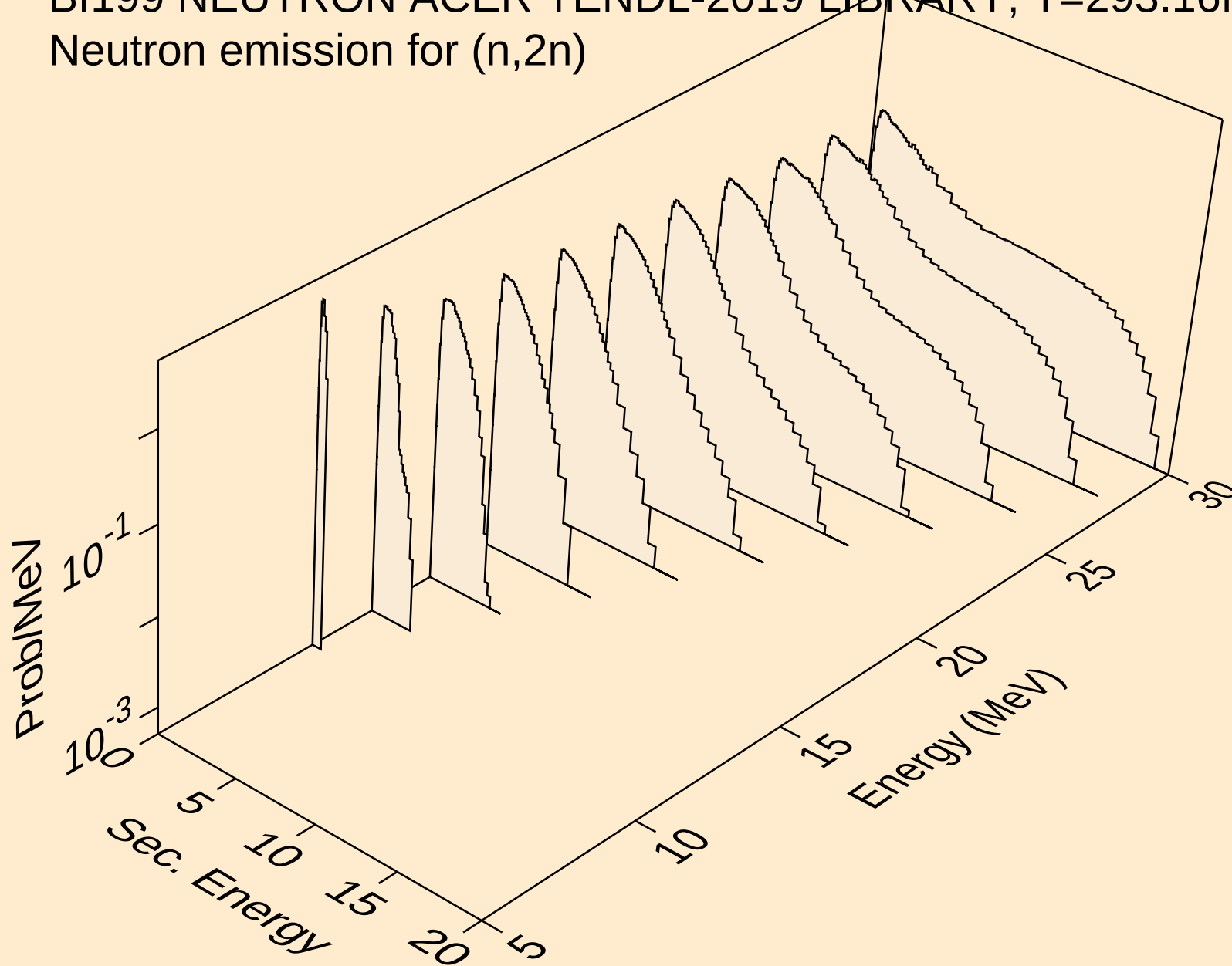
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,x)



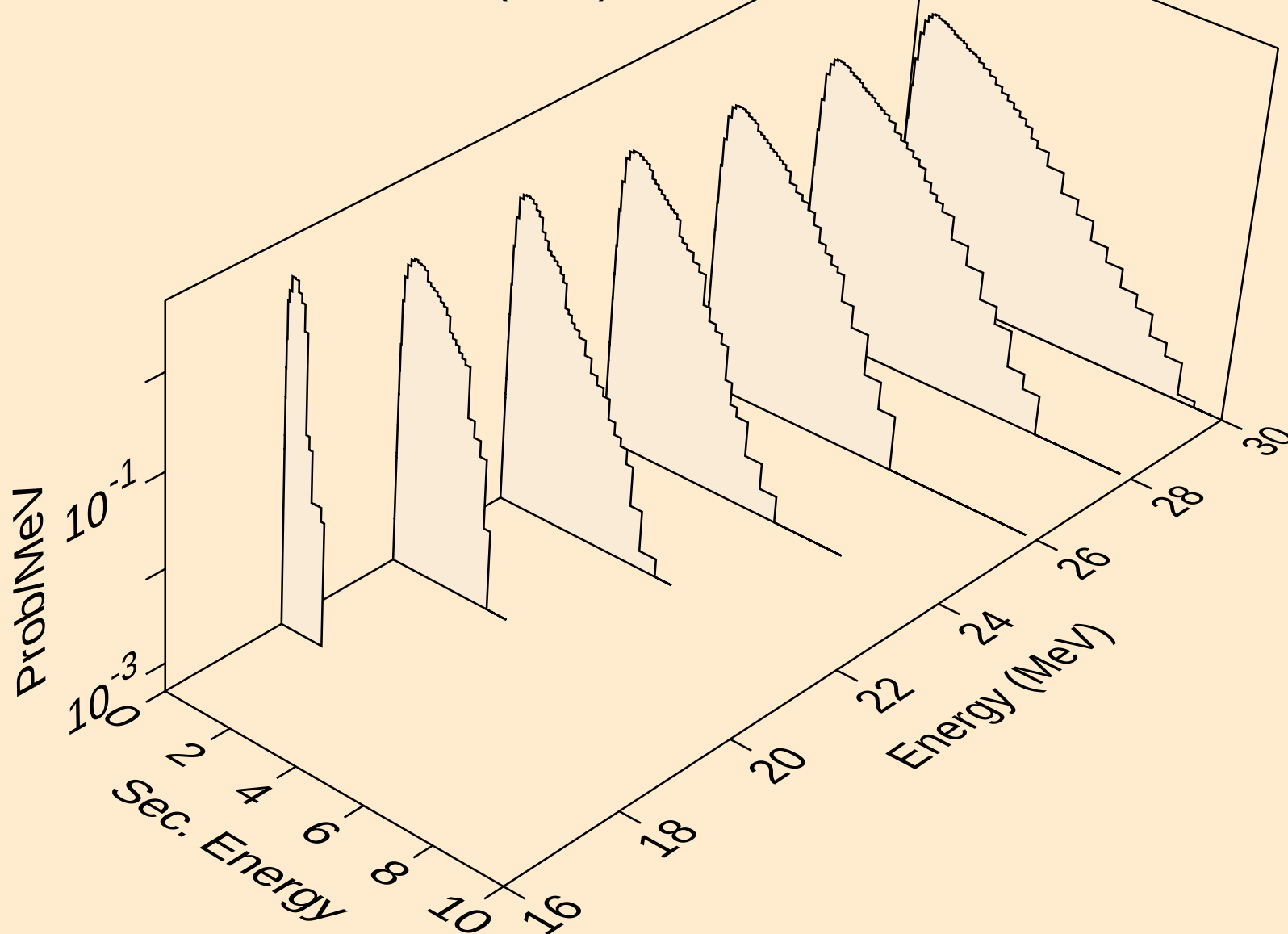
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,2nd)



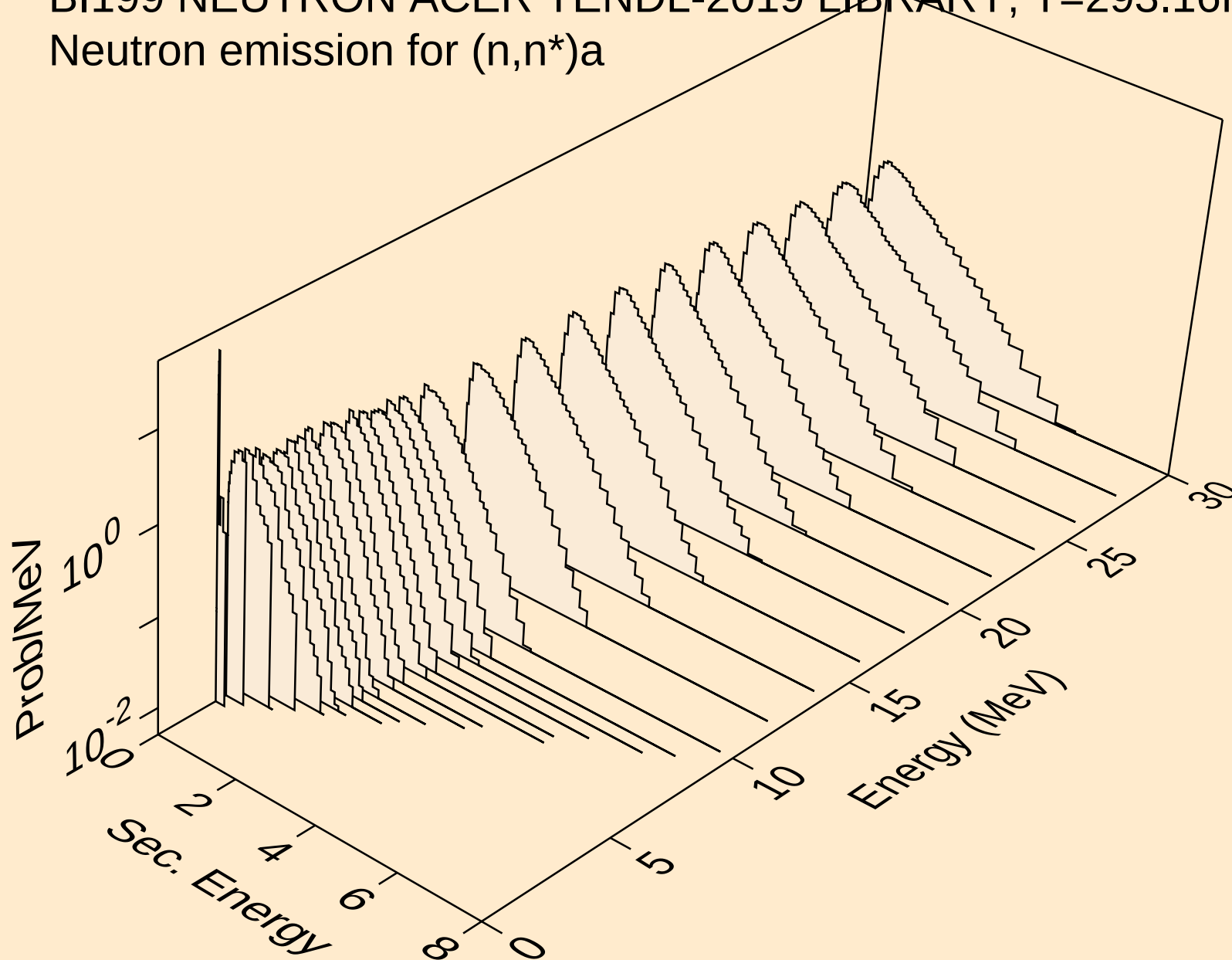
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Neutron emission for (n,2n)



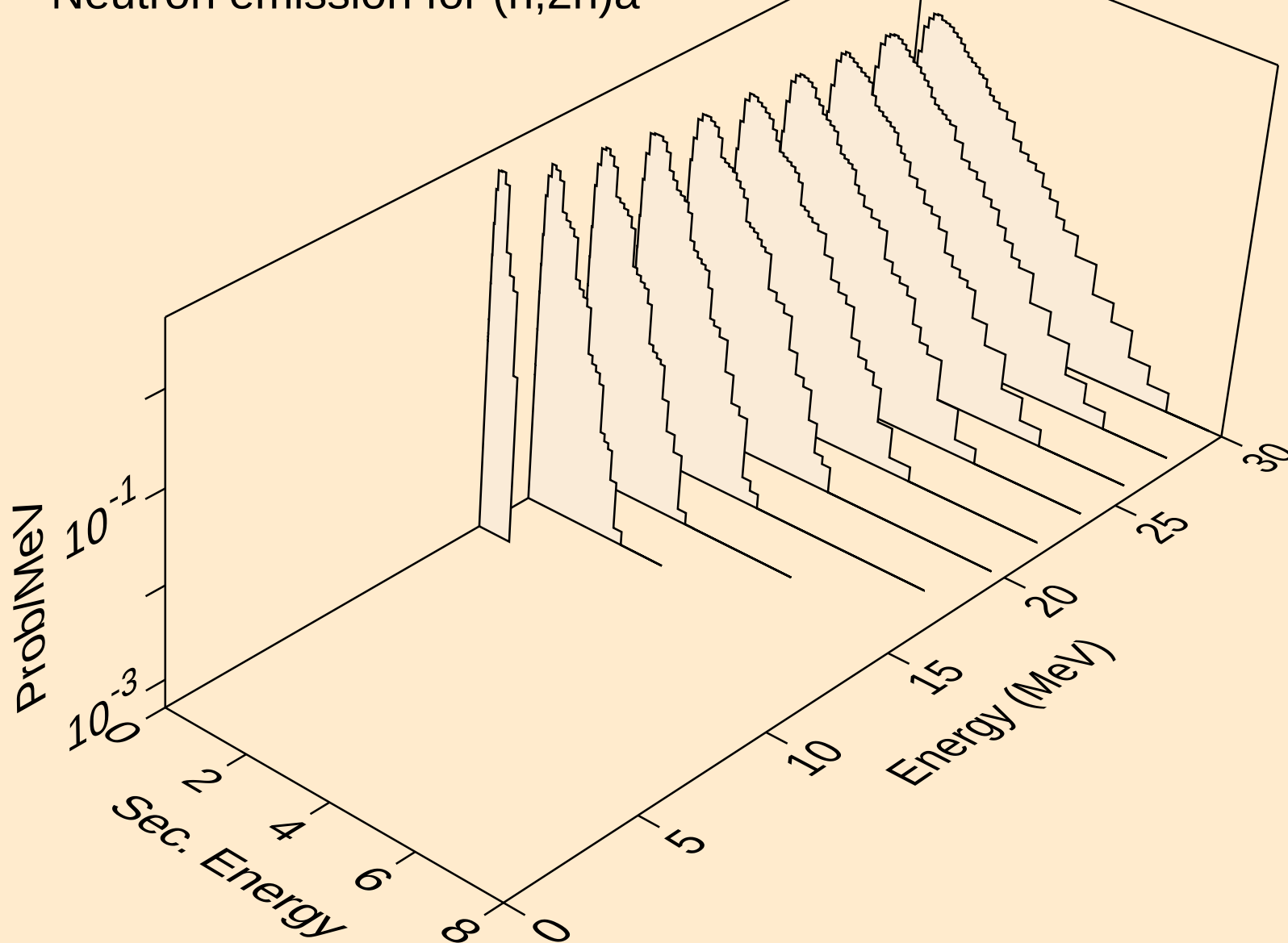
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Neutron emission for (n,3n)



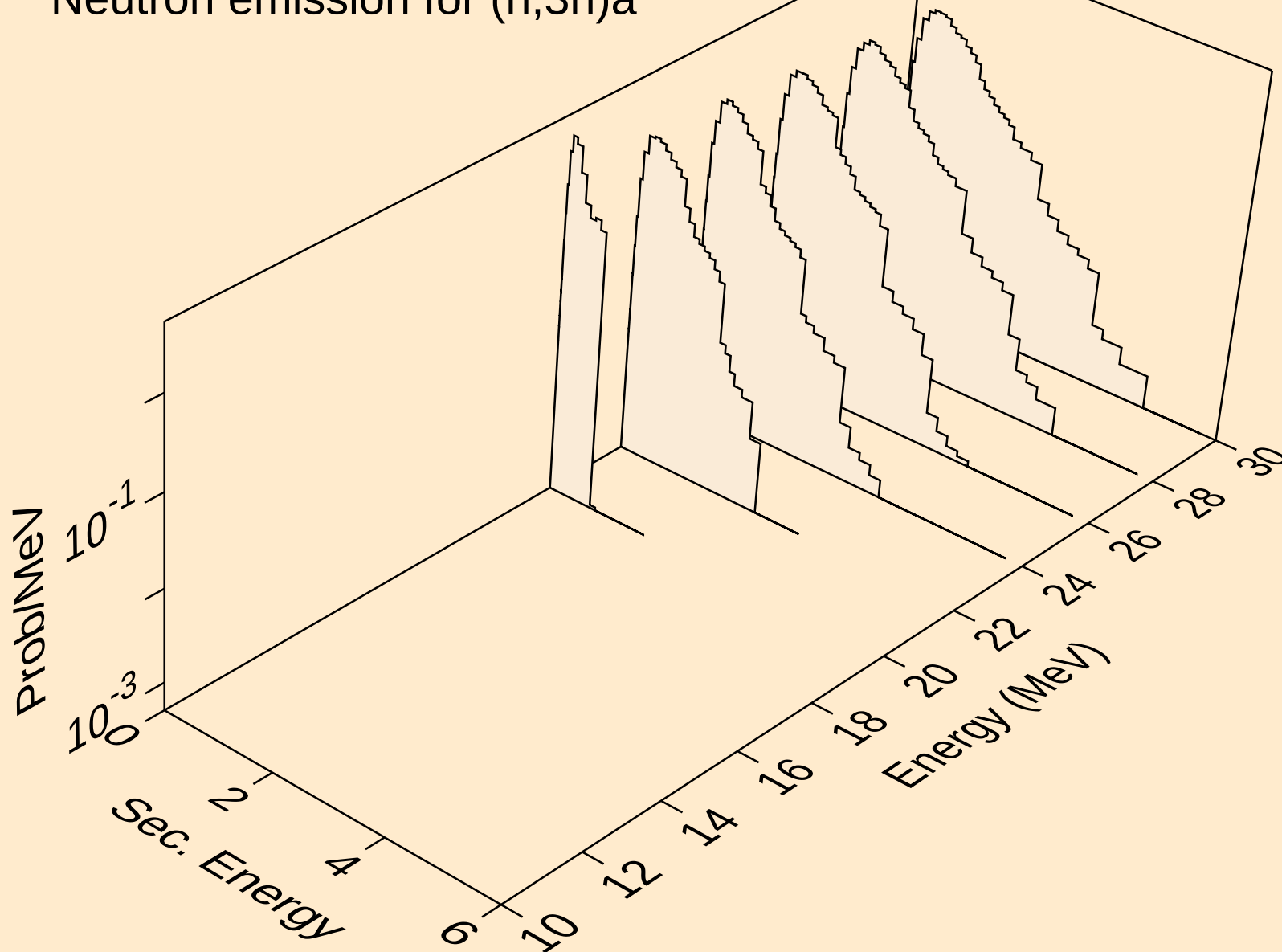
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,n*)a



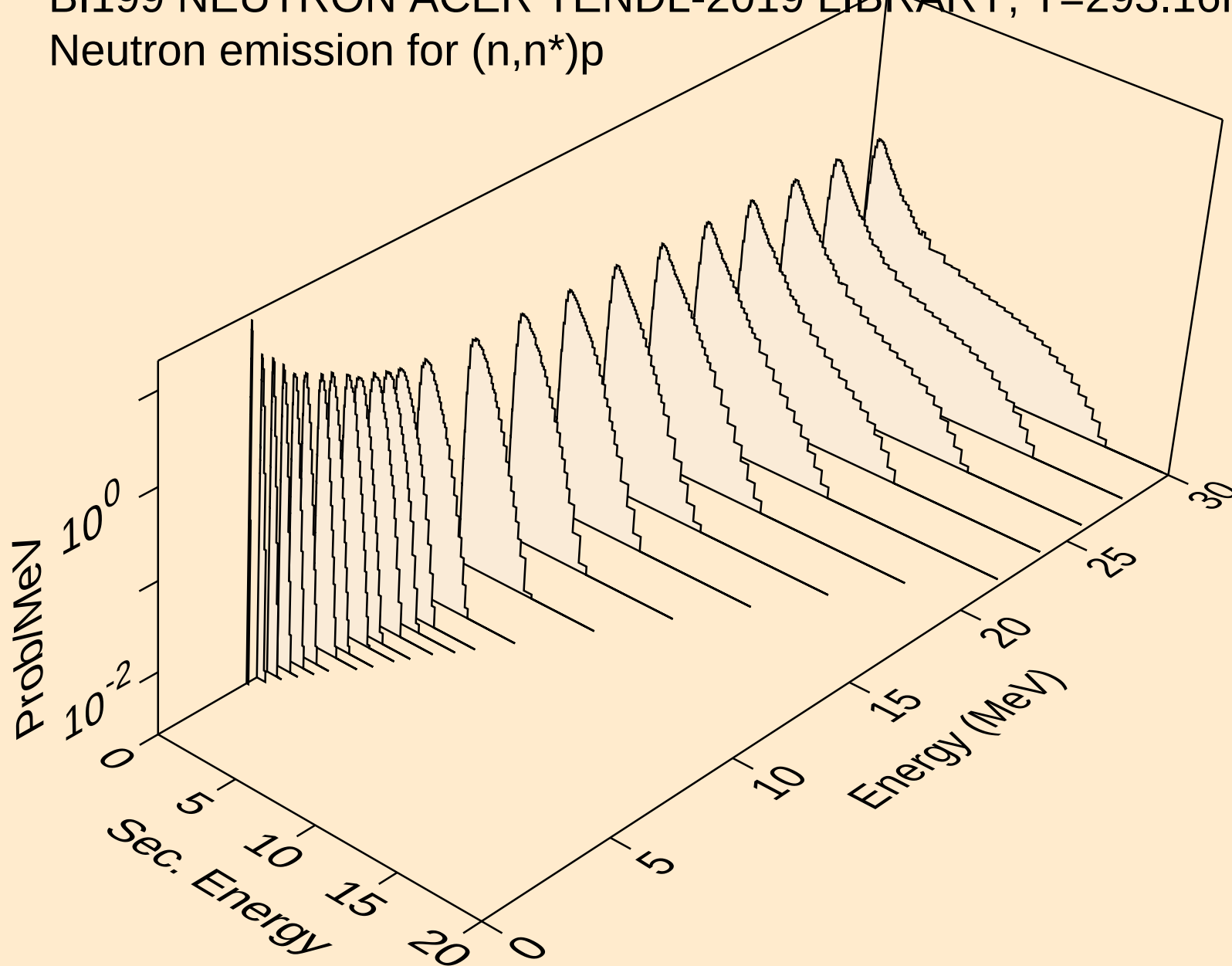
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,2n)_a



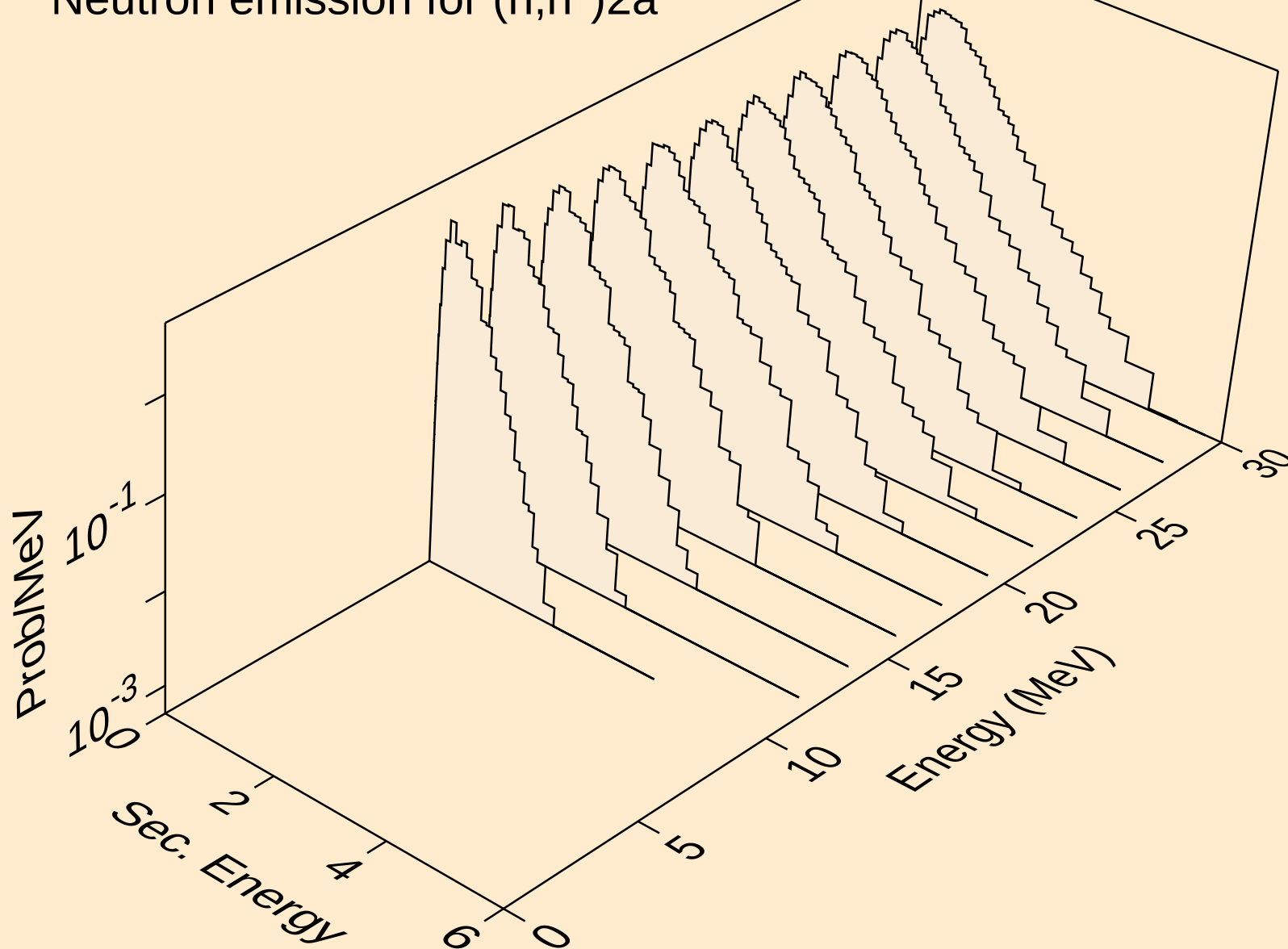
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Neutron emission for (n,3n)a



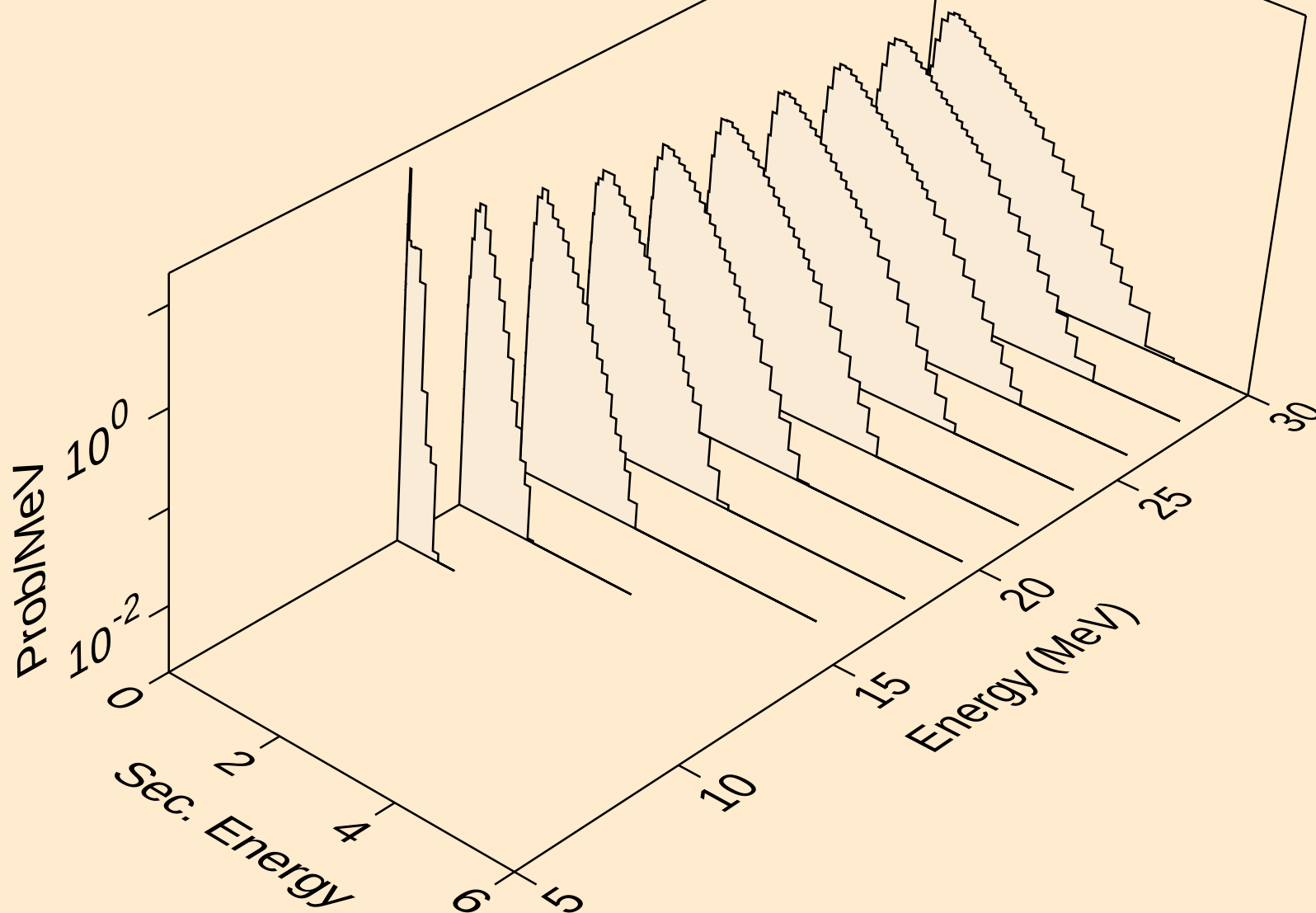
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,n*)p



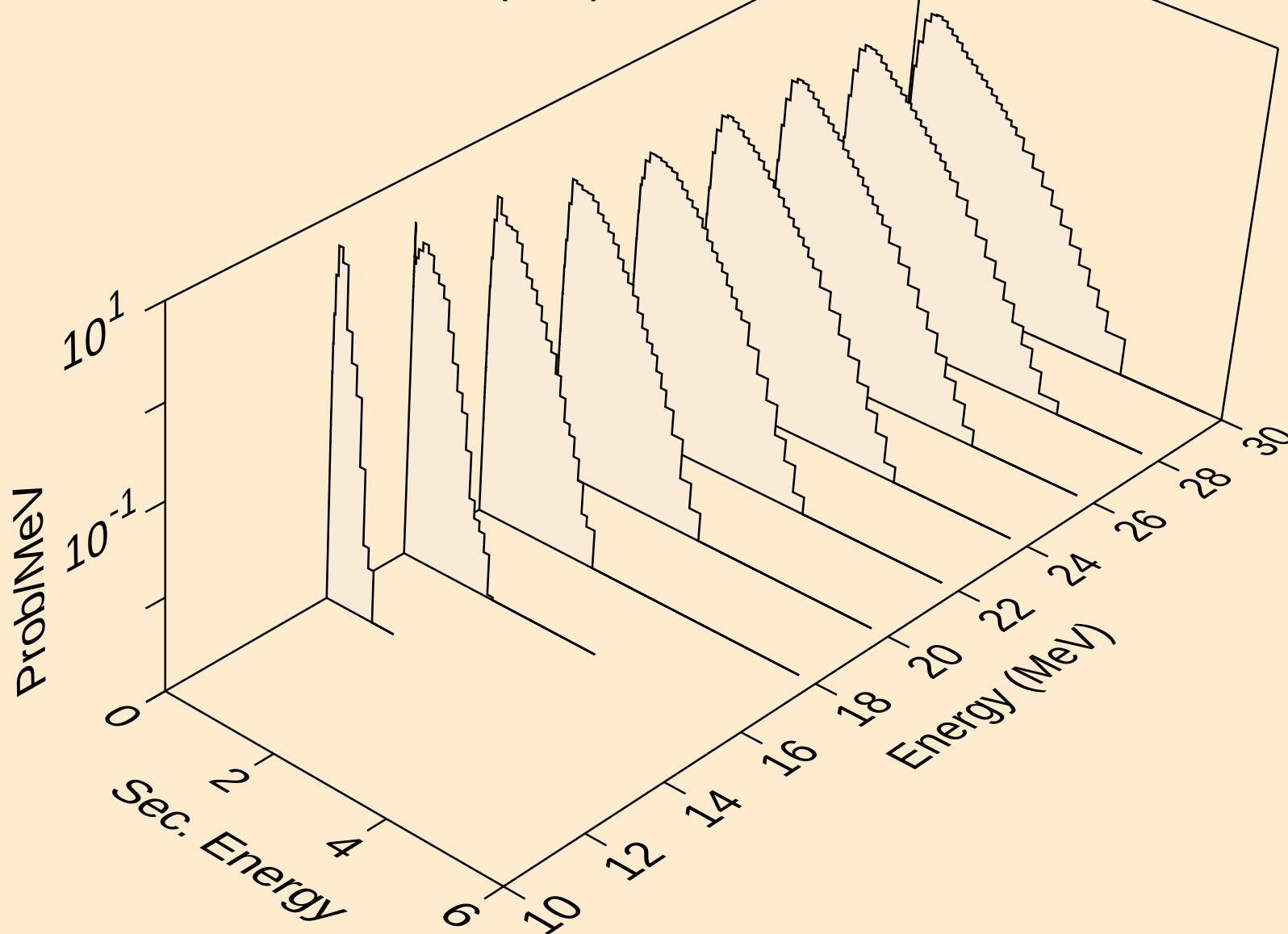
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Neutron emission for (n,n*)2a



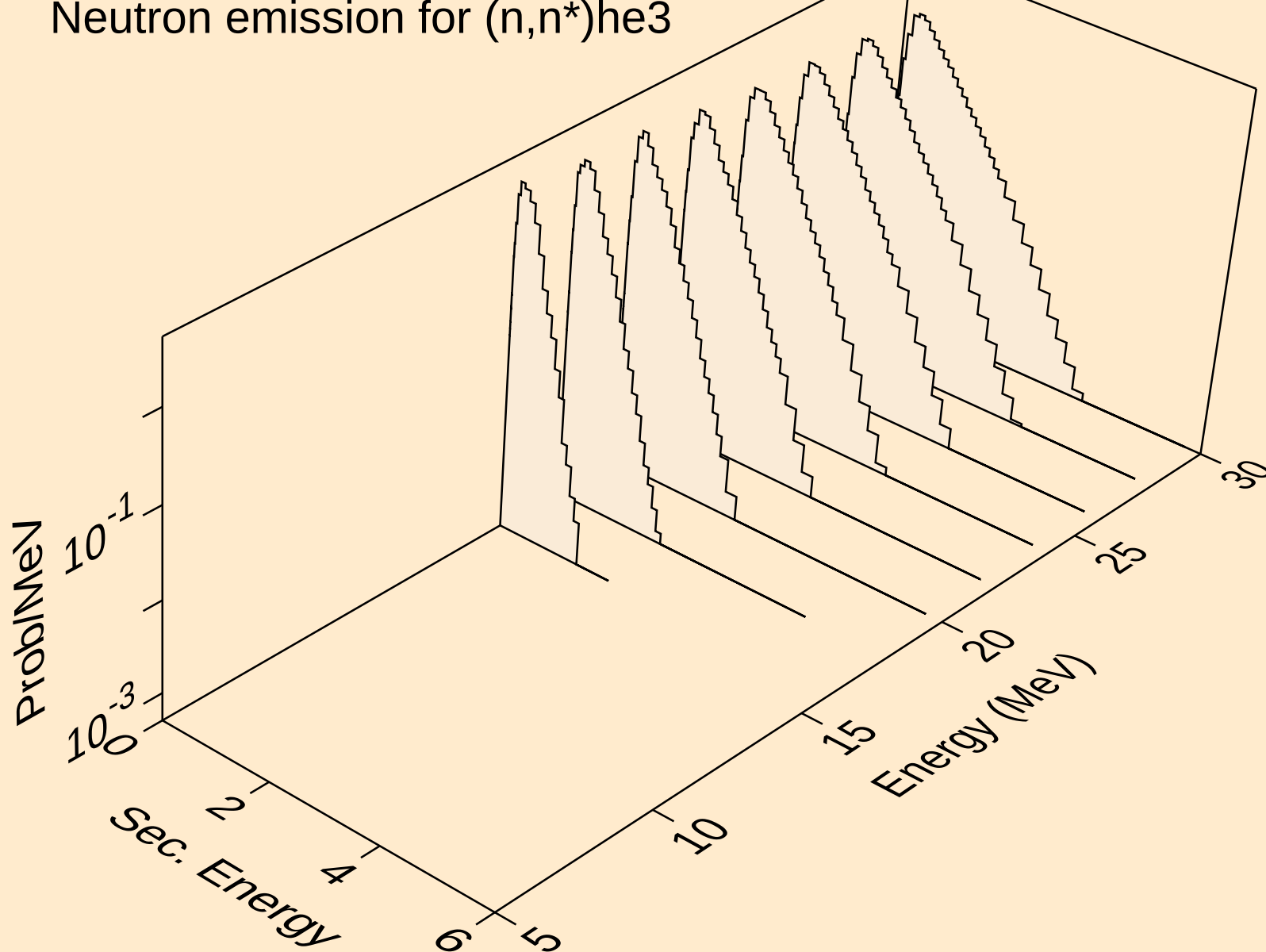
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,n*)d



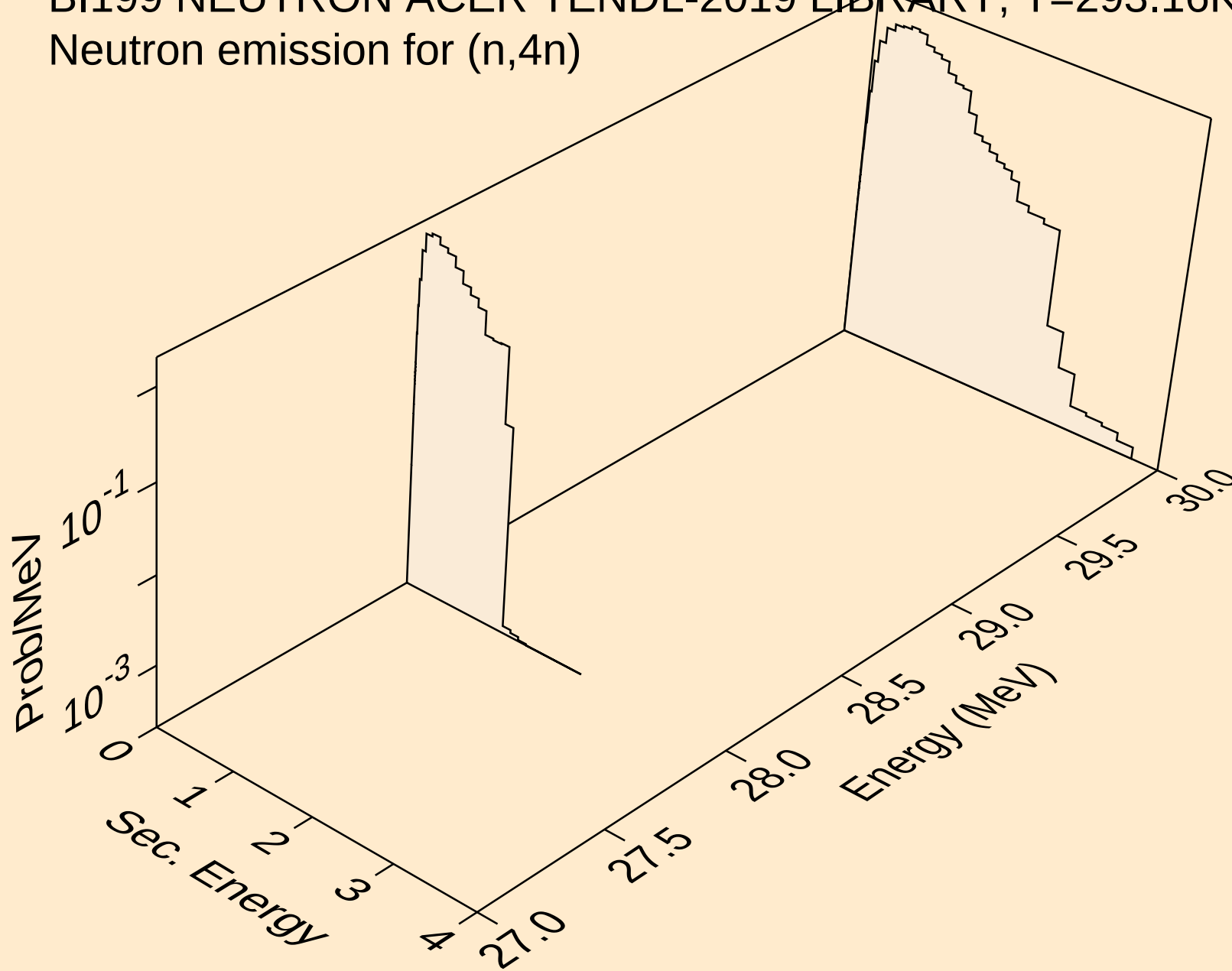
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,n*)t



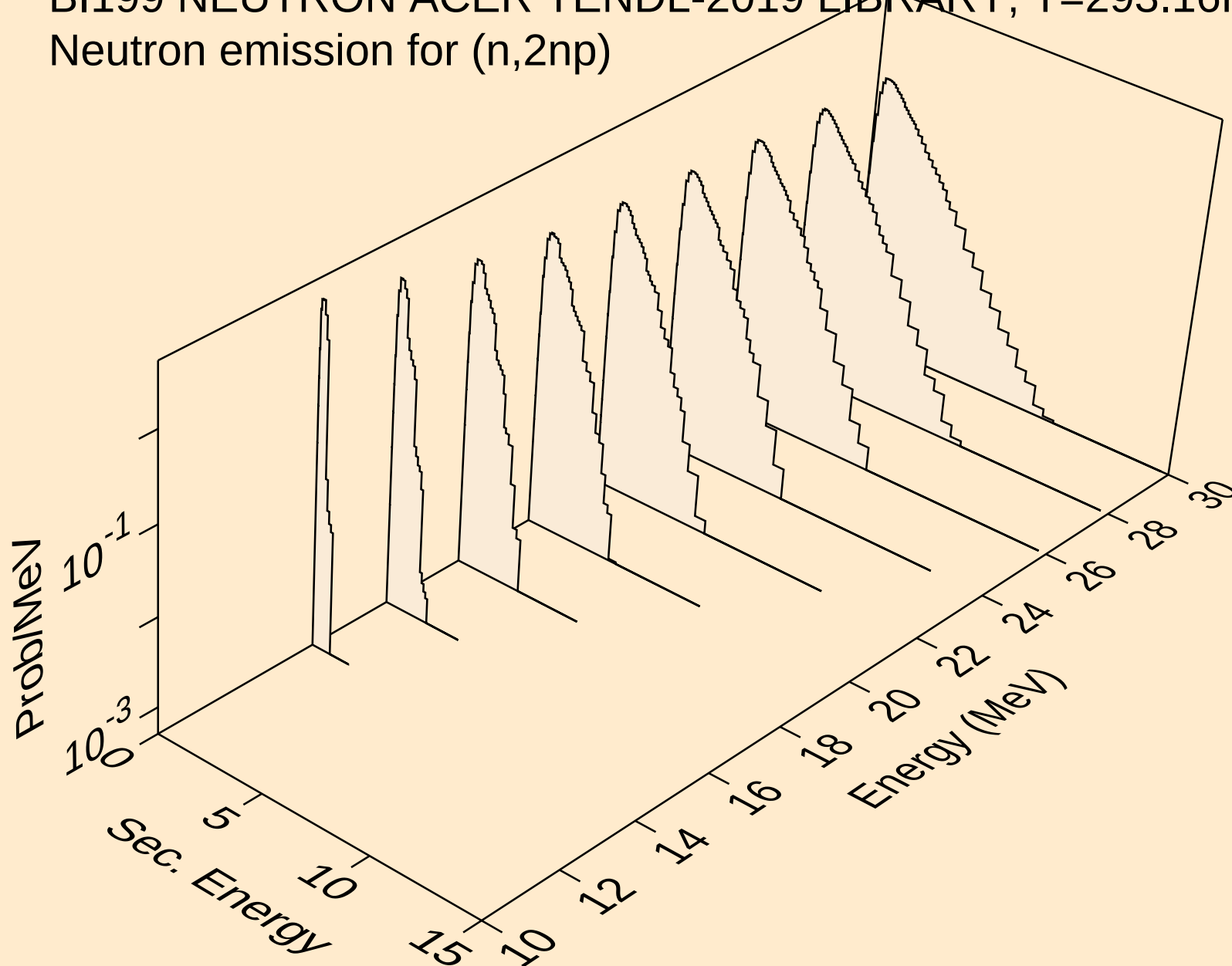
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,n*)he3



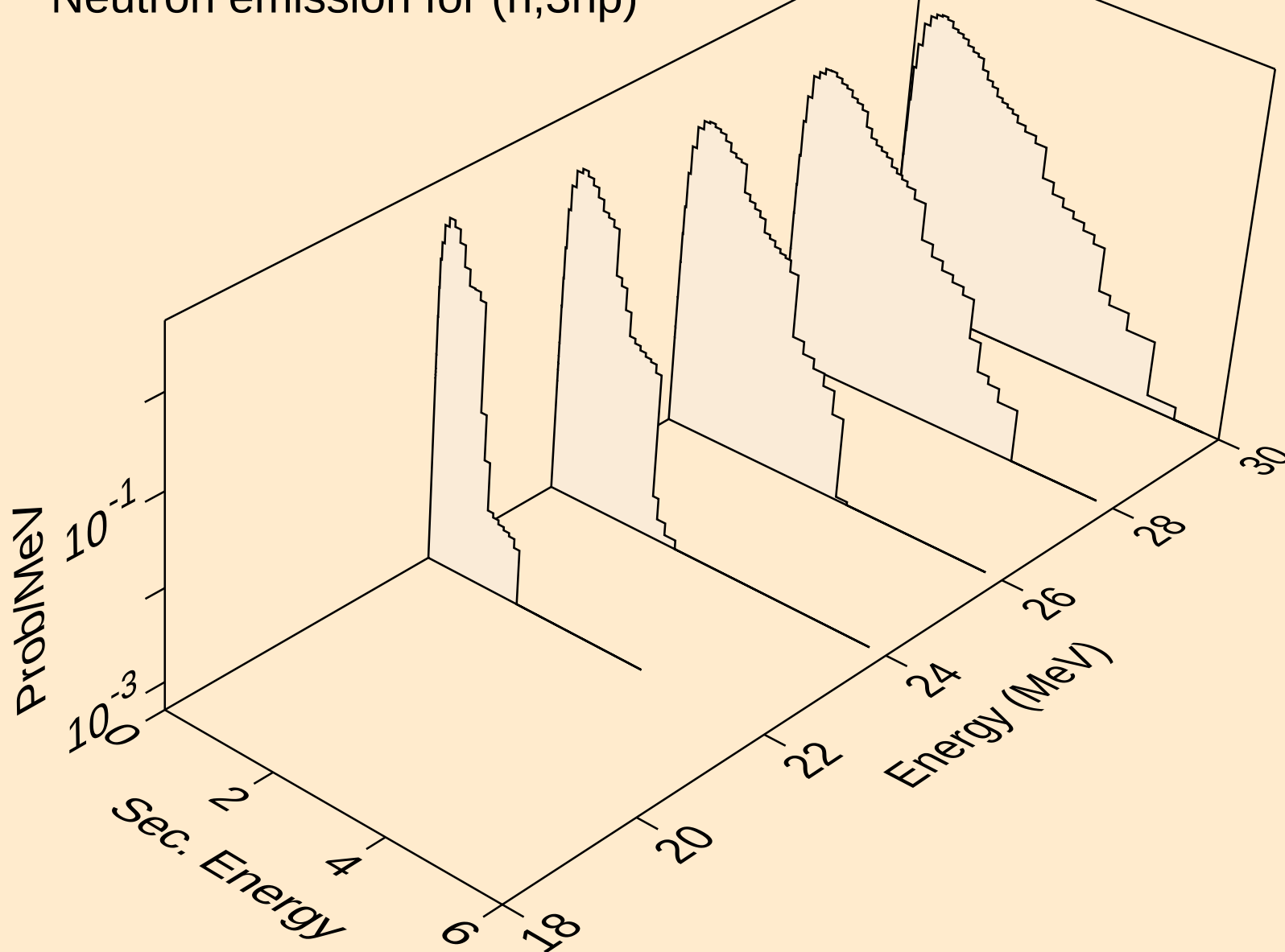
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,4n)



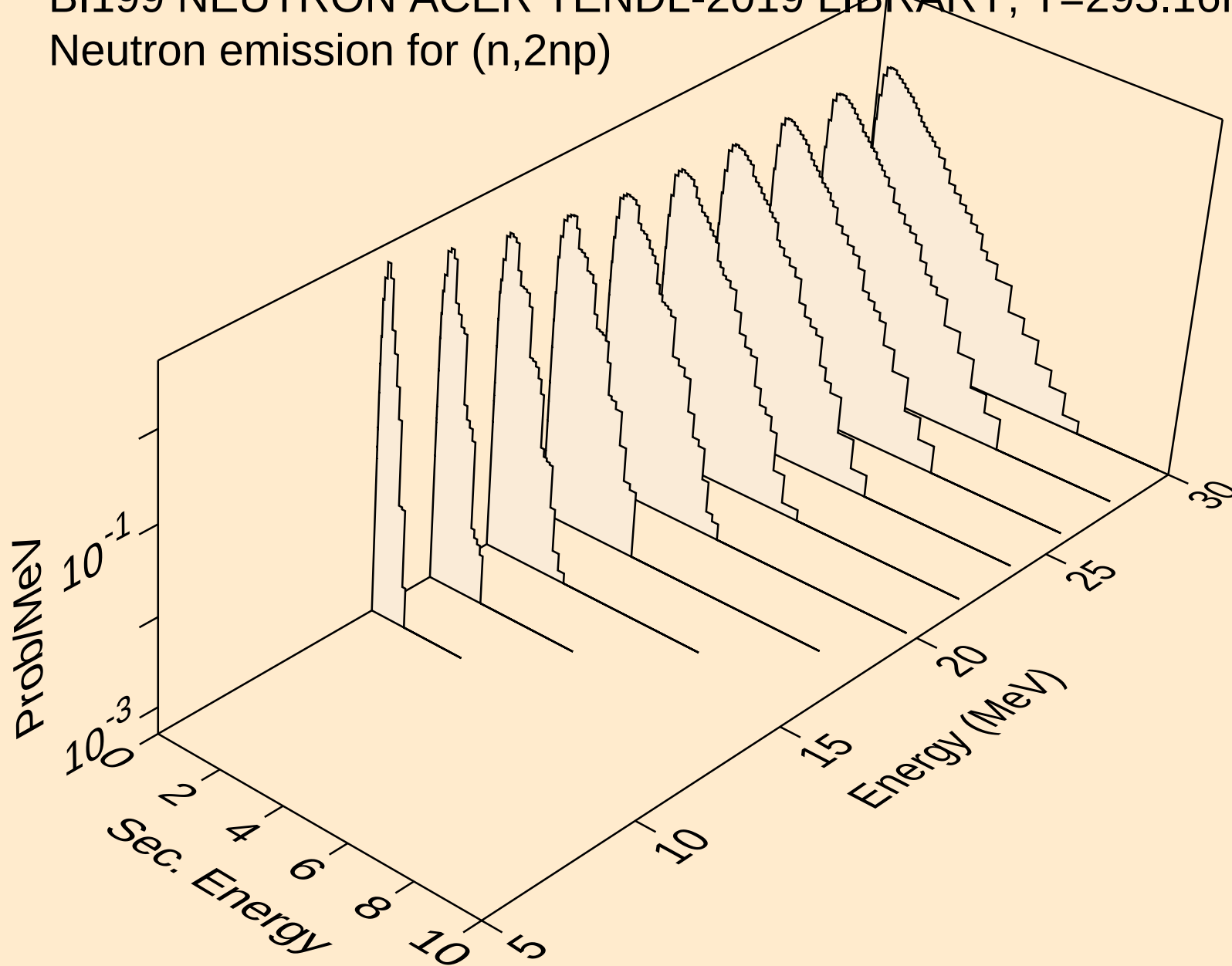
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,2np)



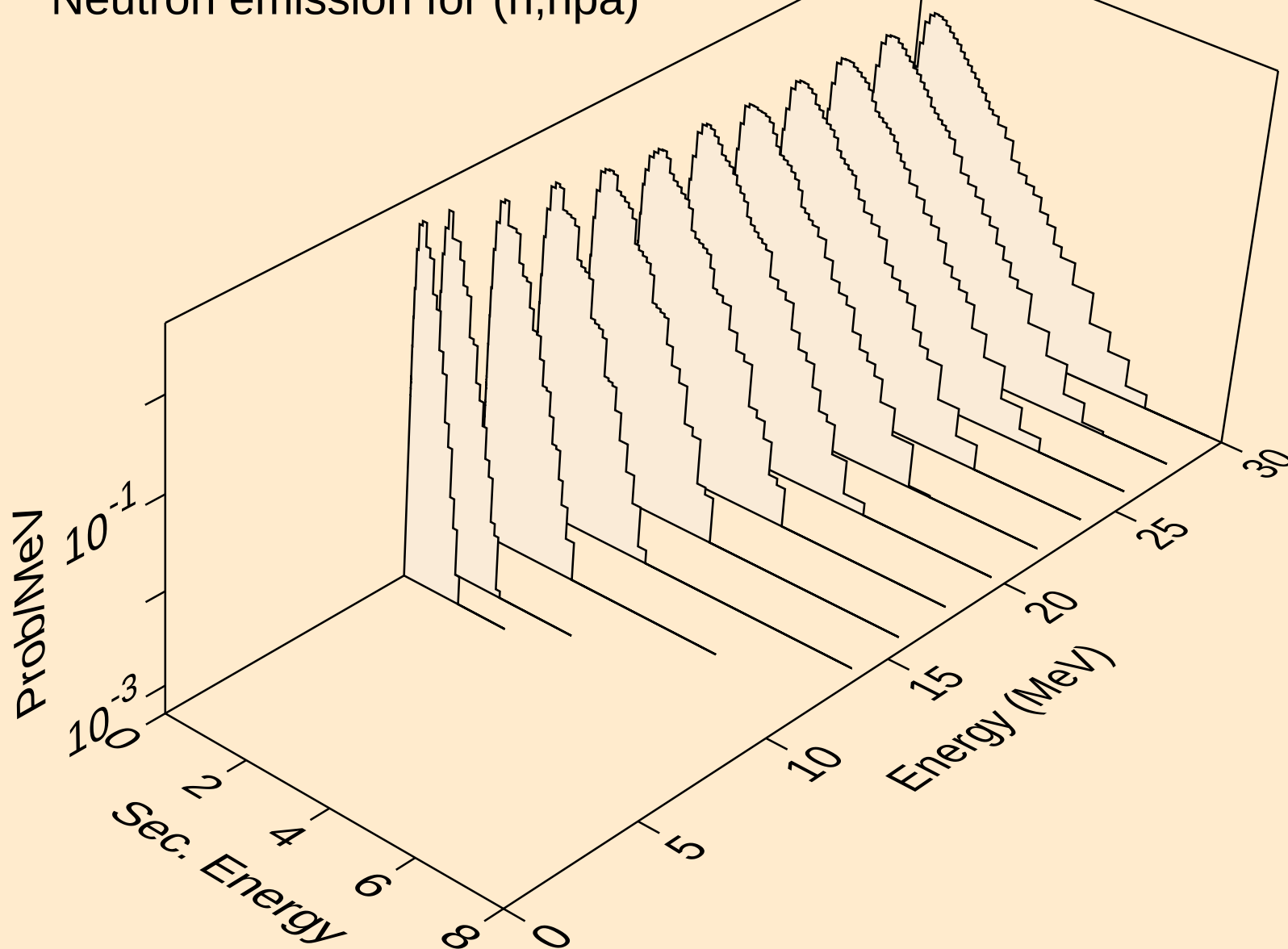
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Neutron emission for (n,3np)



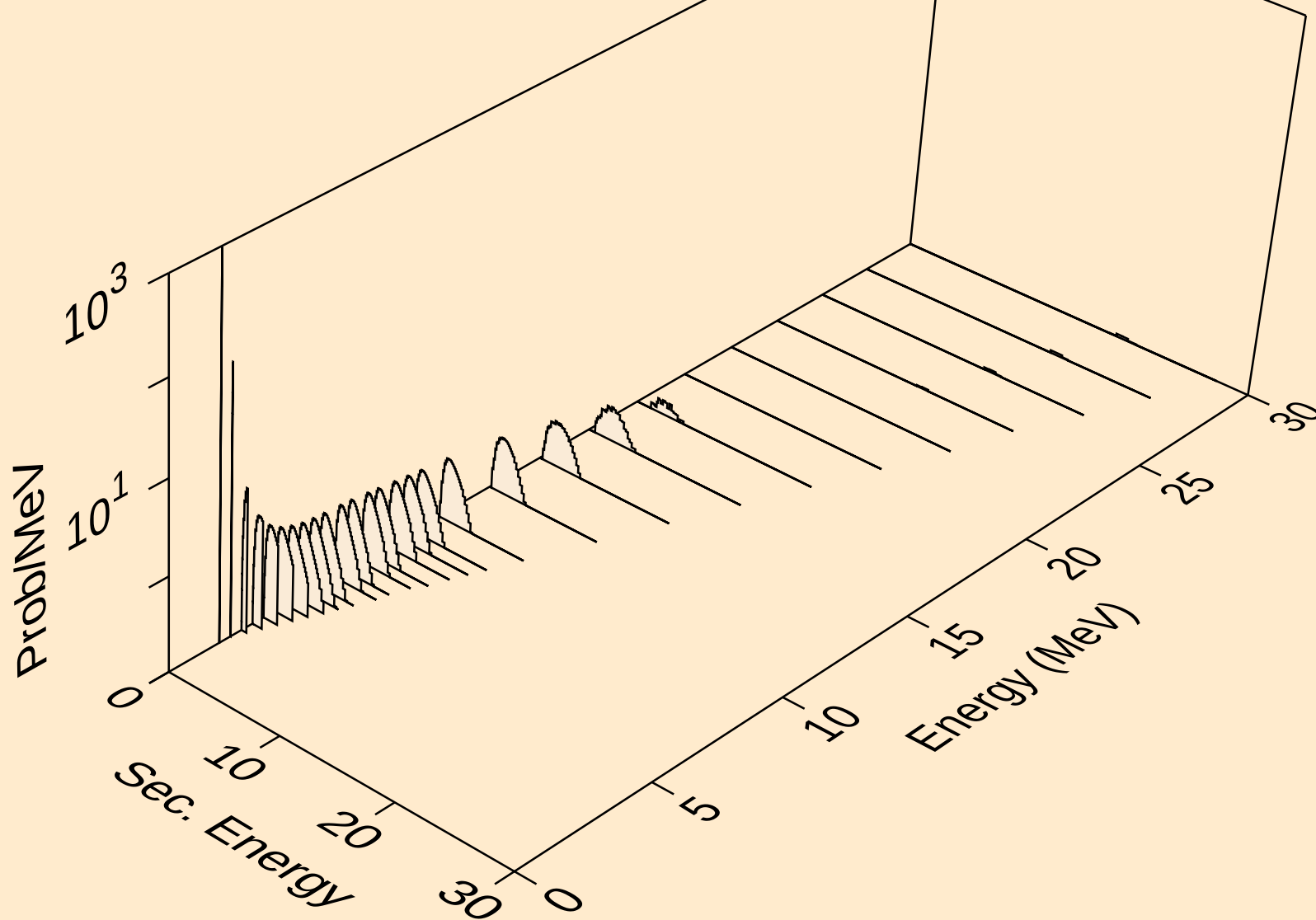
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Neutron emission for (n,2np)



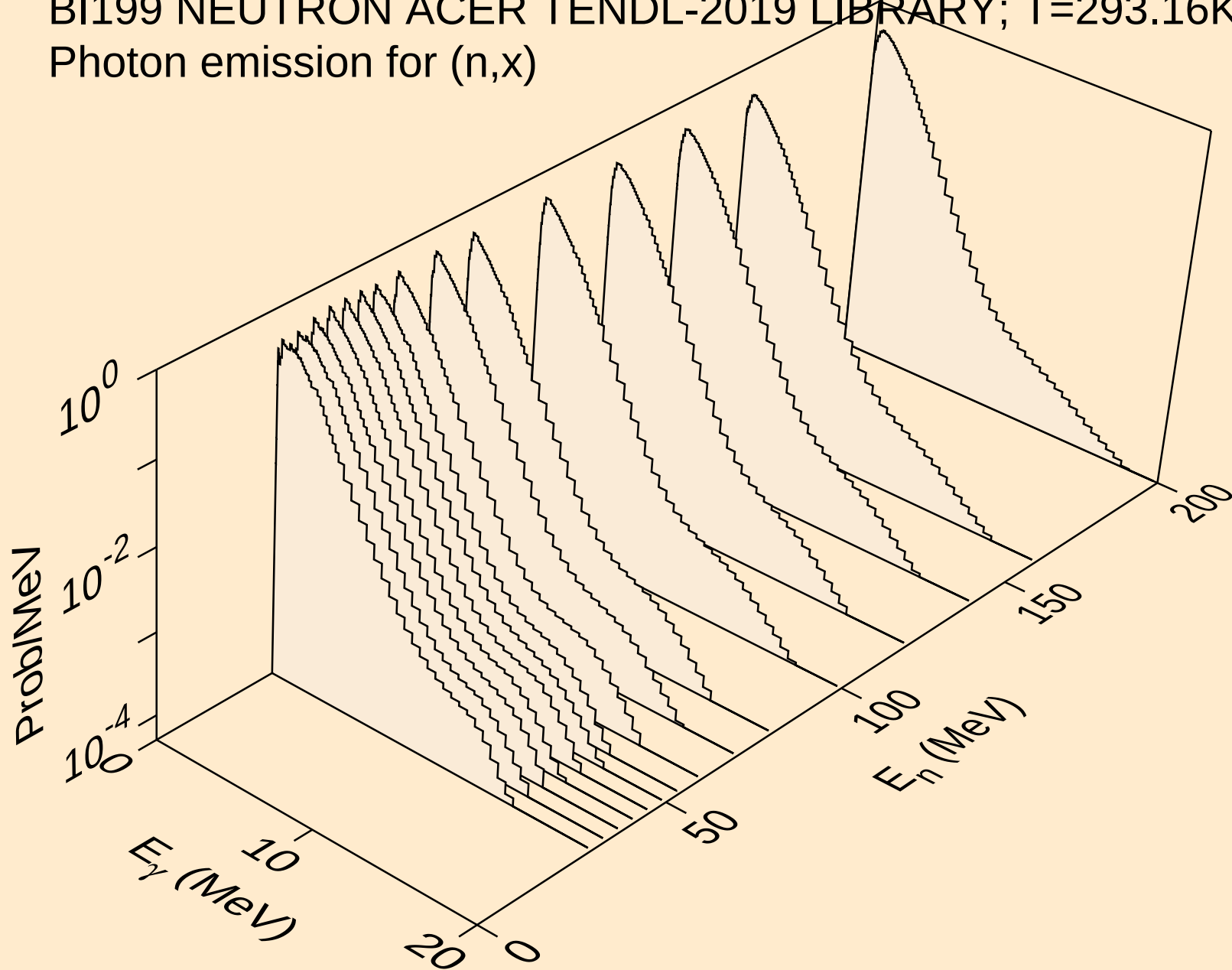
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Neutron emission for (n,npa)



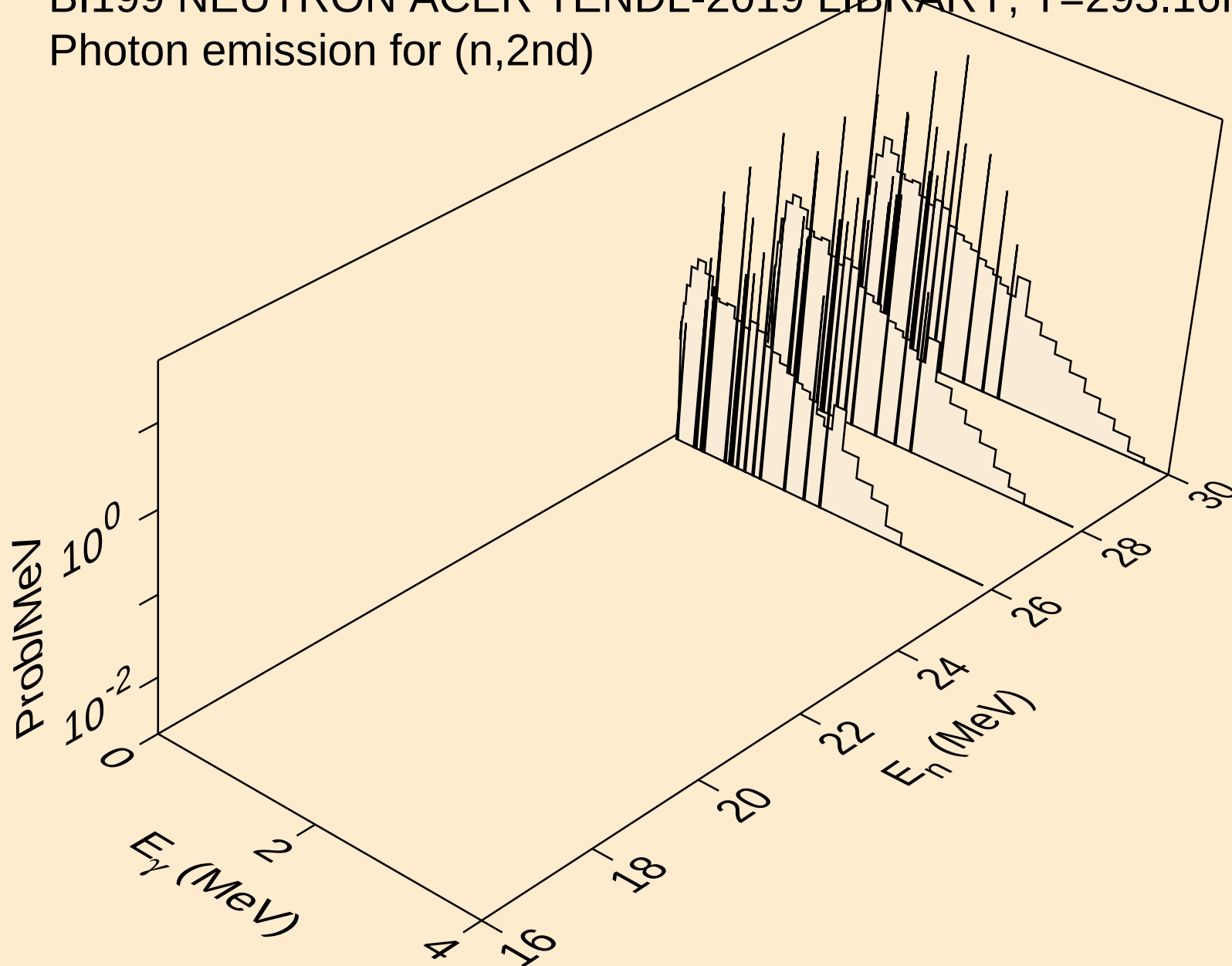
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Neutron emission for (n,n*c)



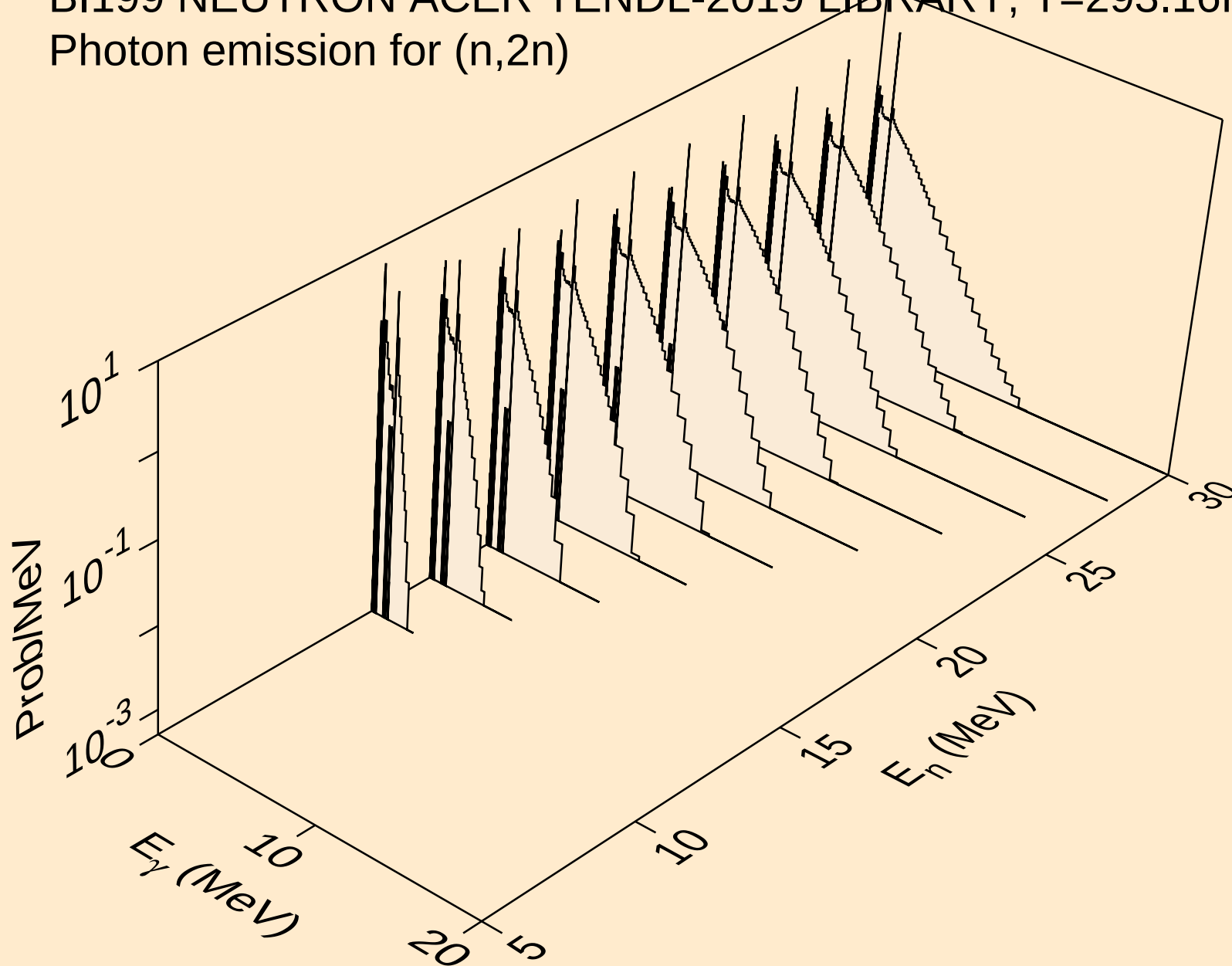
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,x)



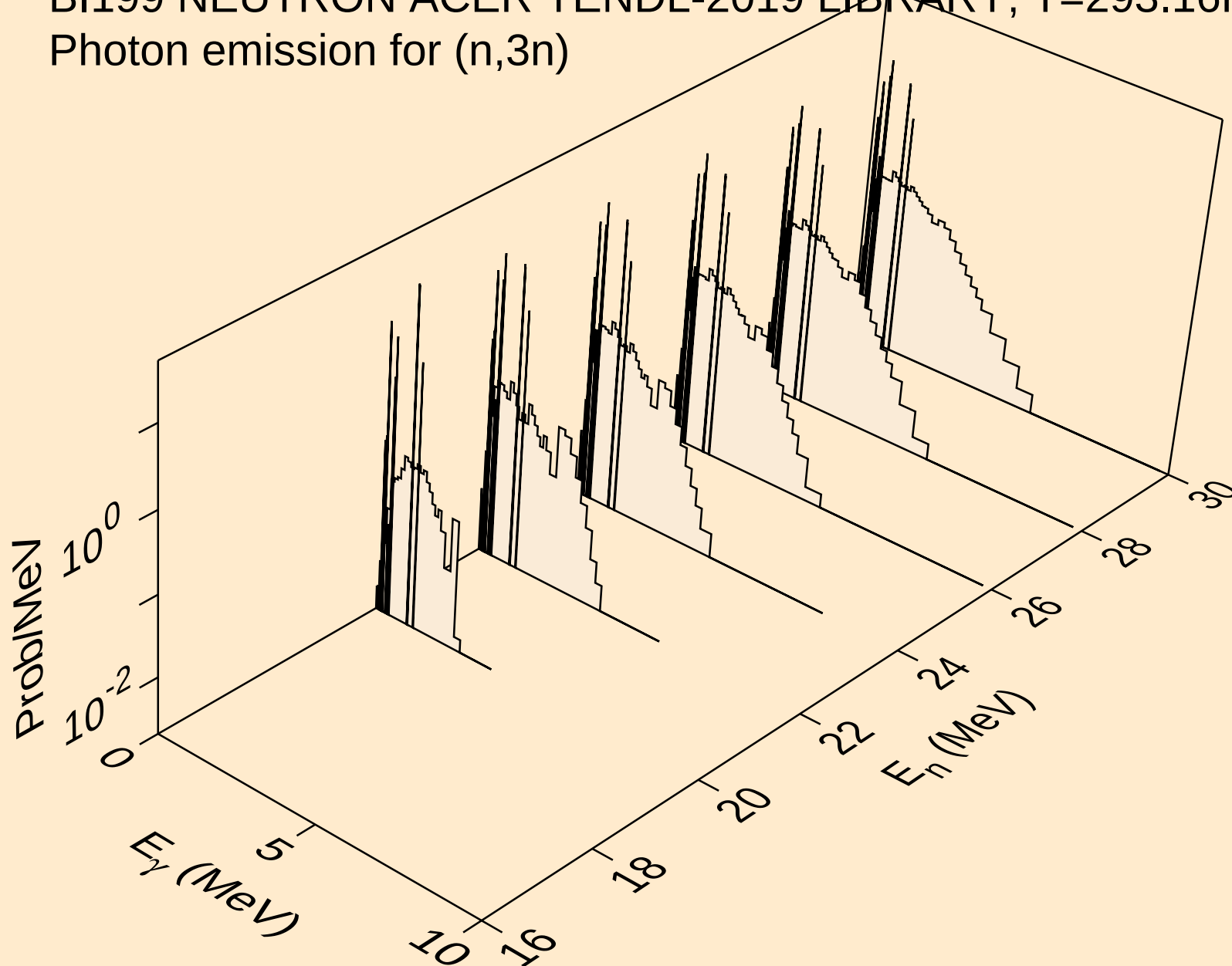
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Photon emission for (n,2nd)



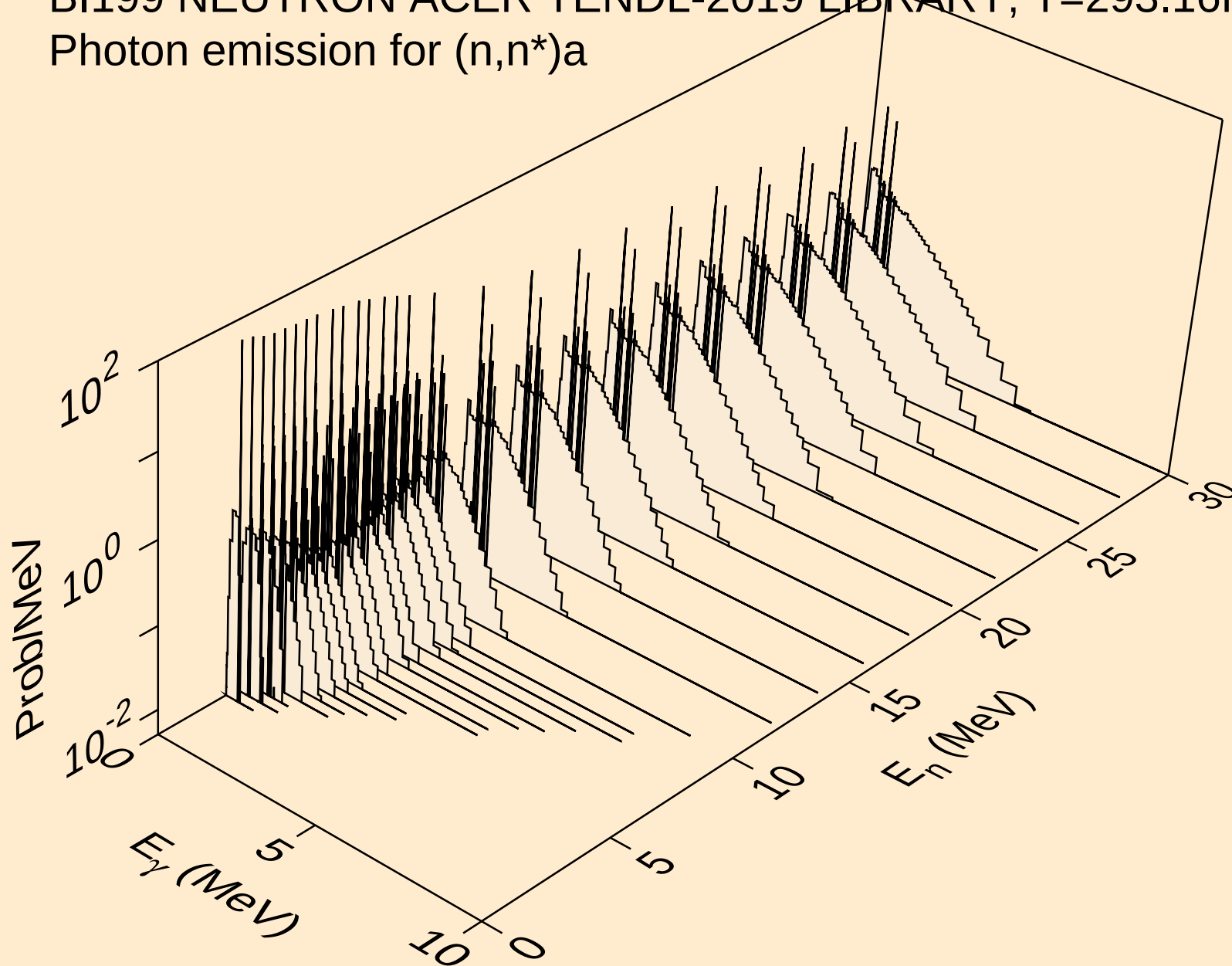
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,2n)



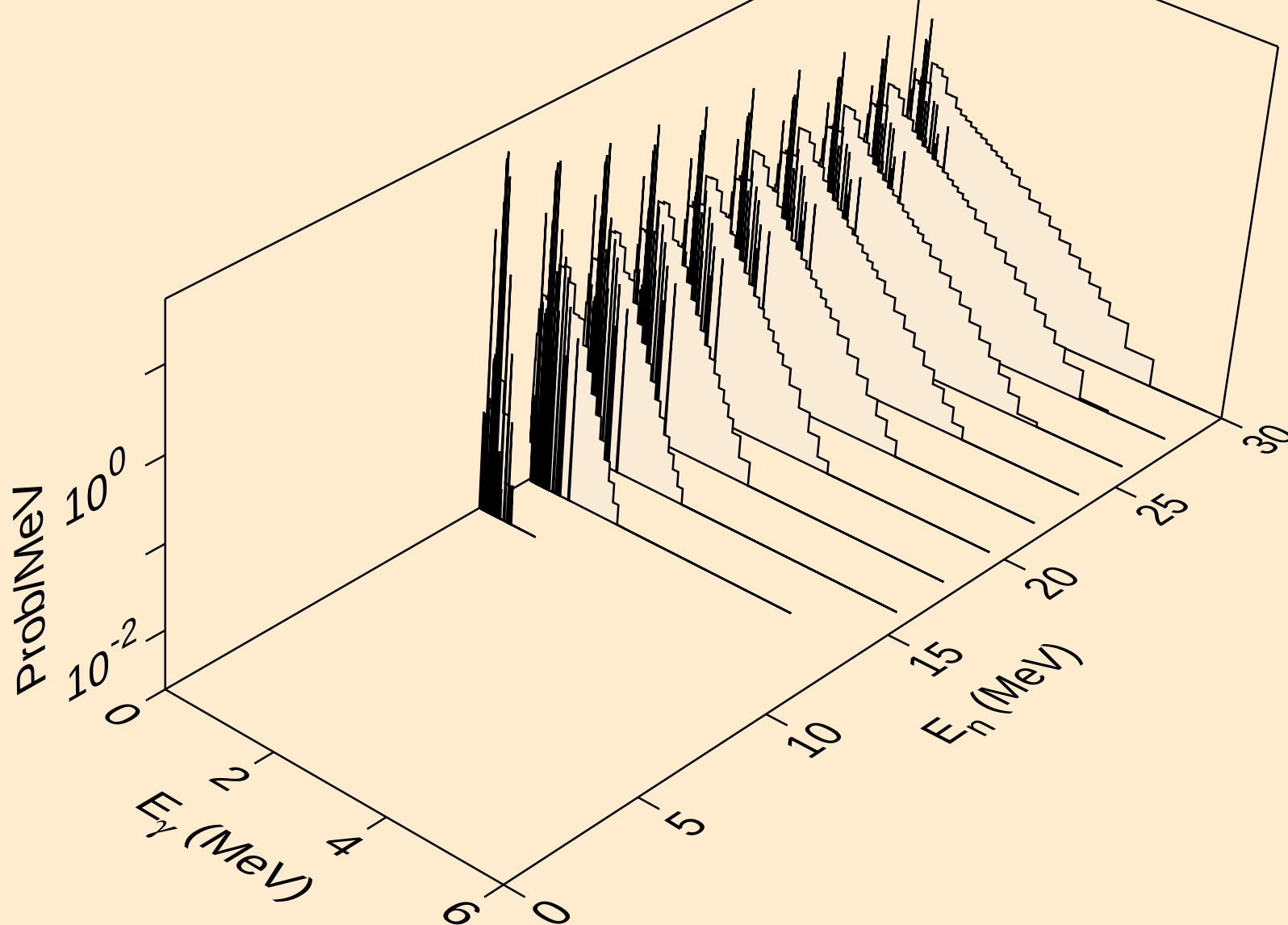
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,3n)



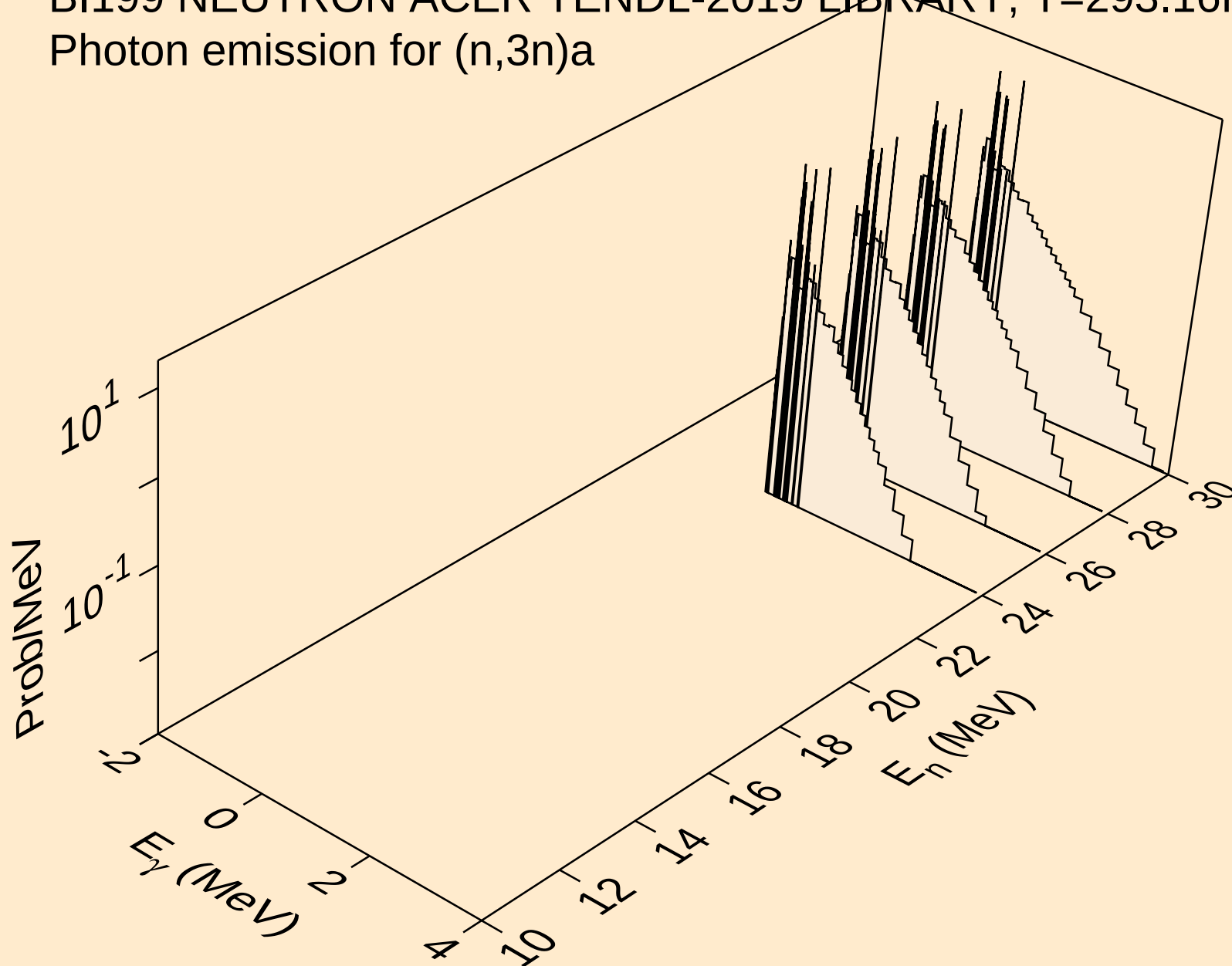
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*)a



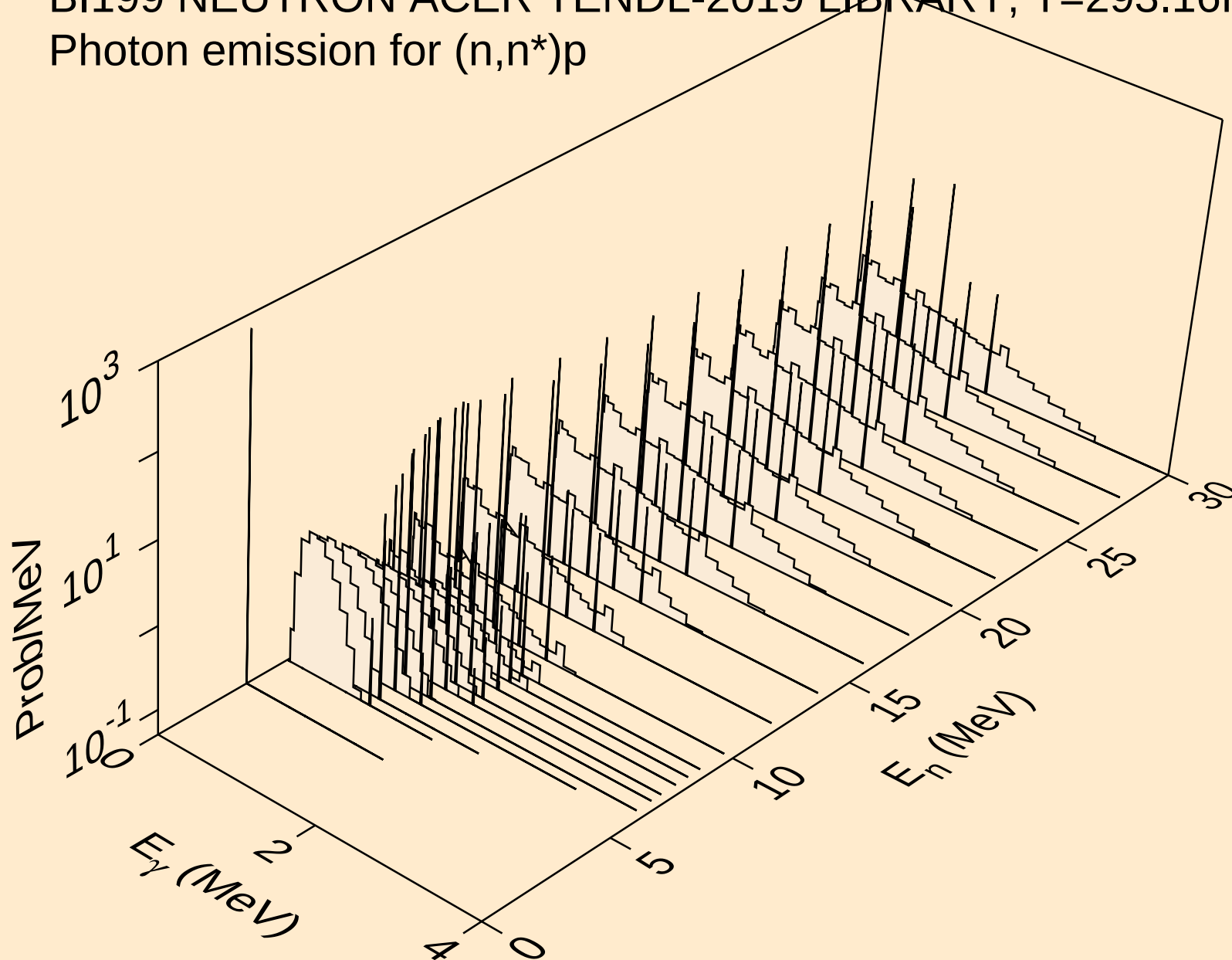
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Photon emission for (n,2n) α



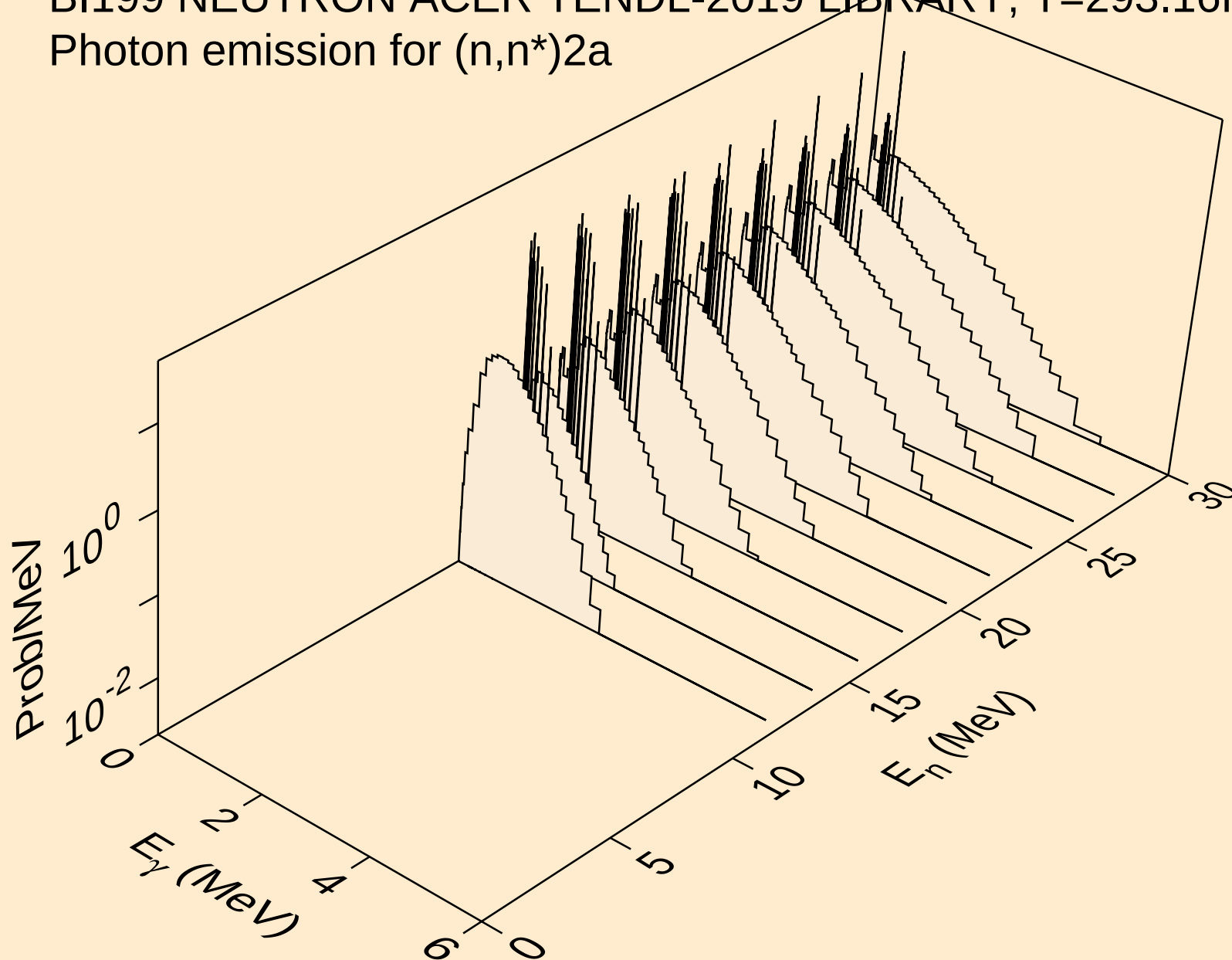
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Photon emission for (n,3n) α



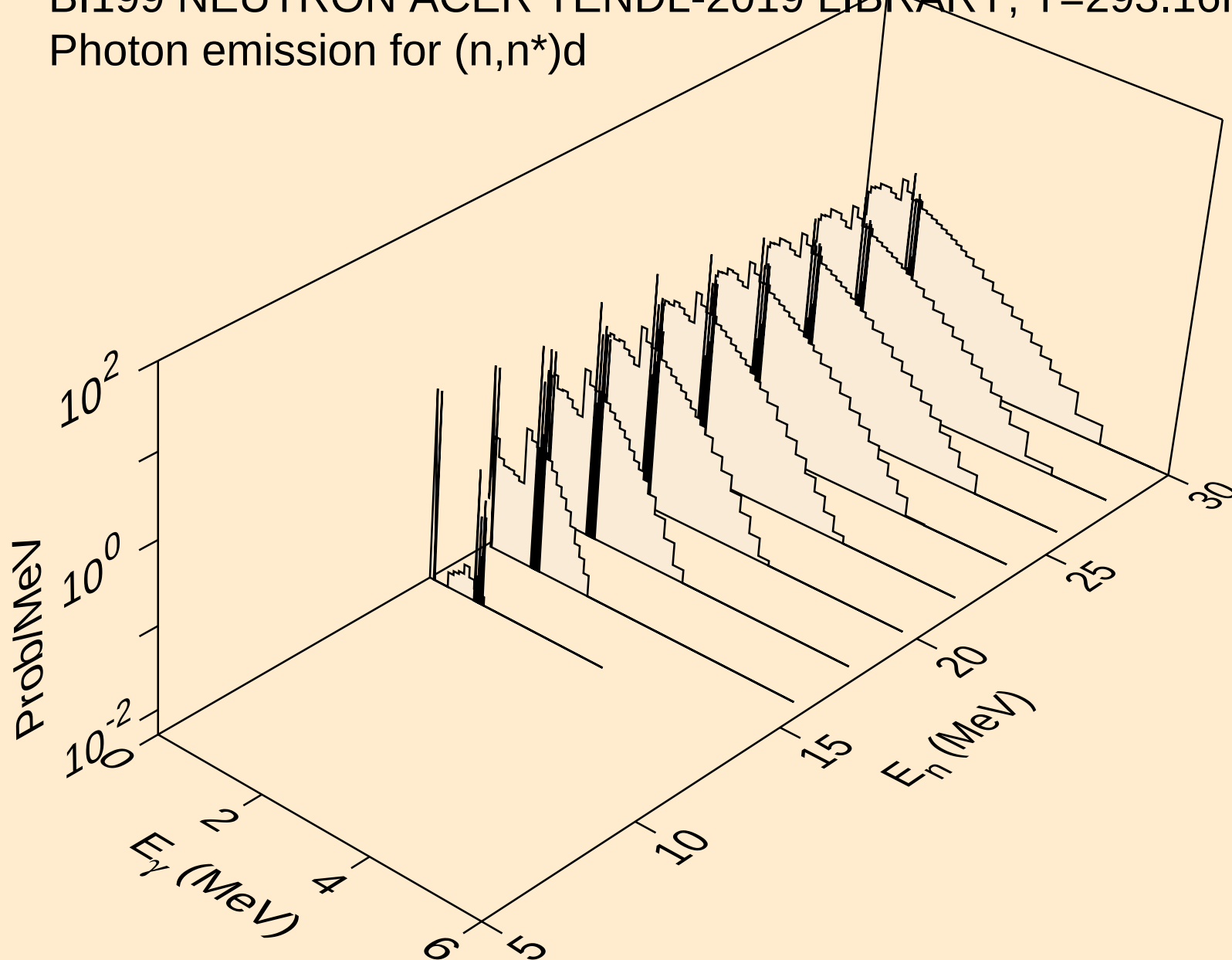
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*)p



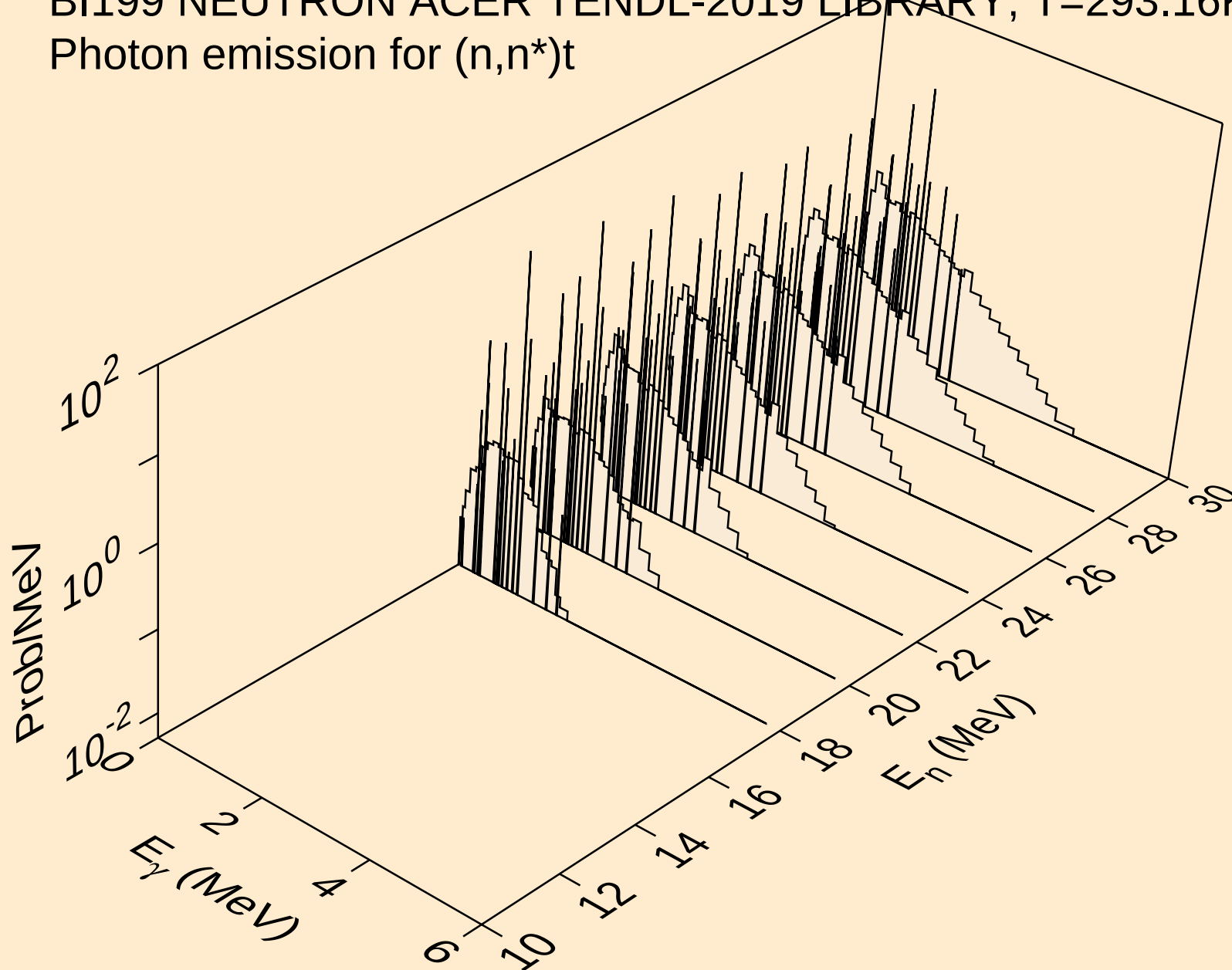
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*)2a



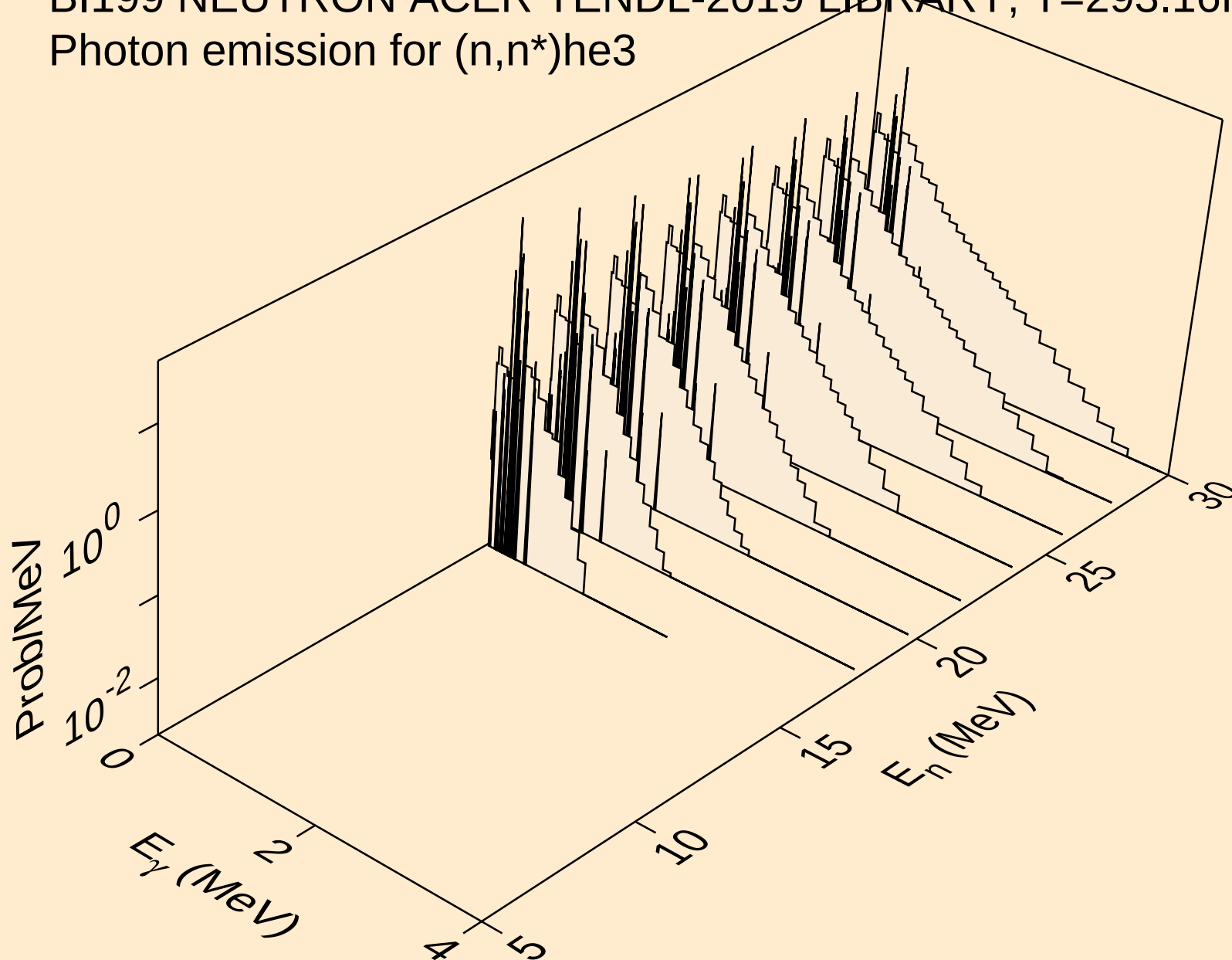
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*)d



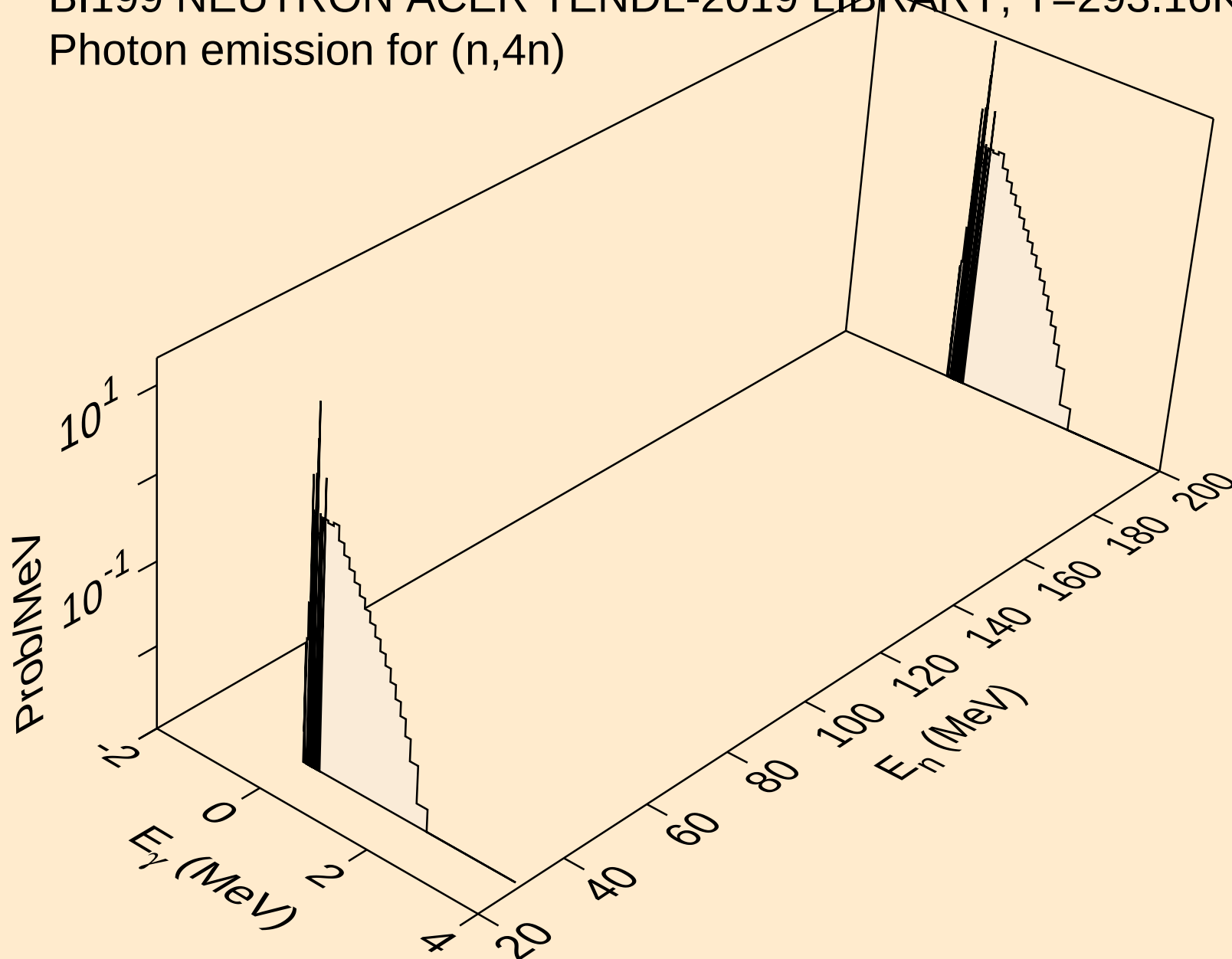
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*)t



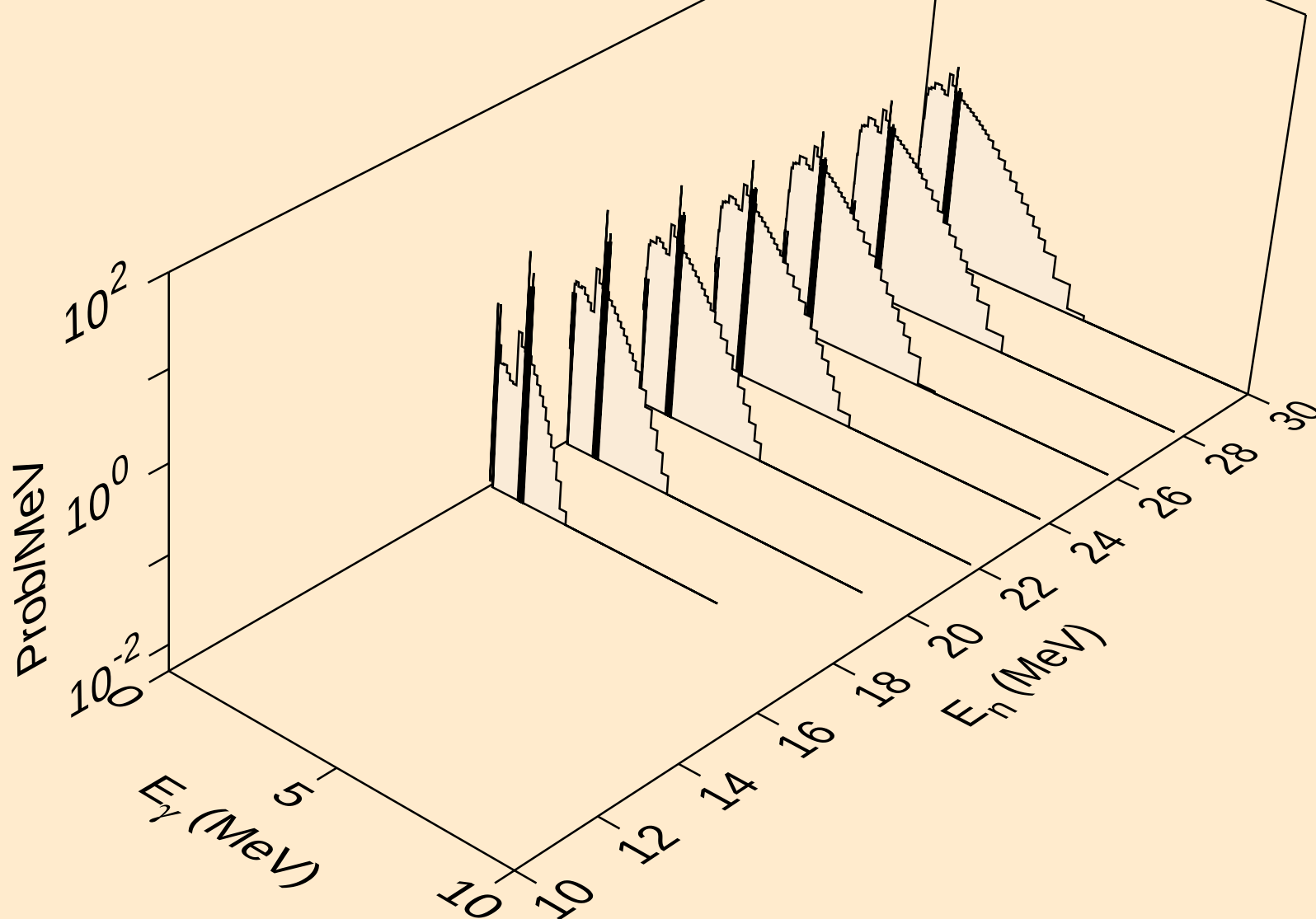
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*)he3



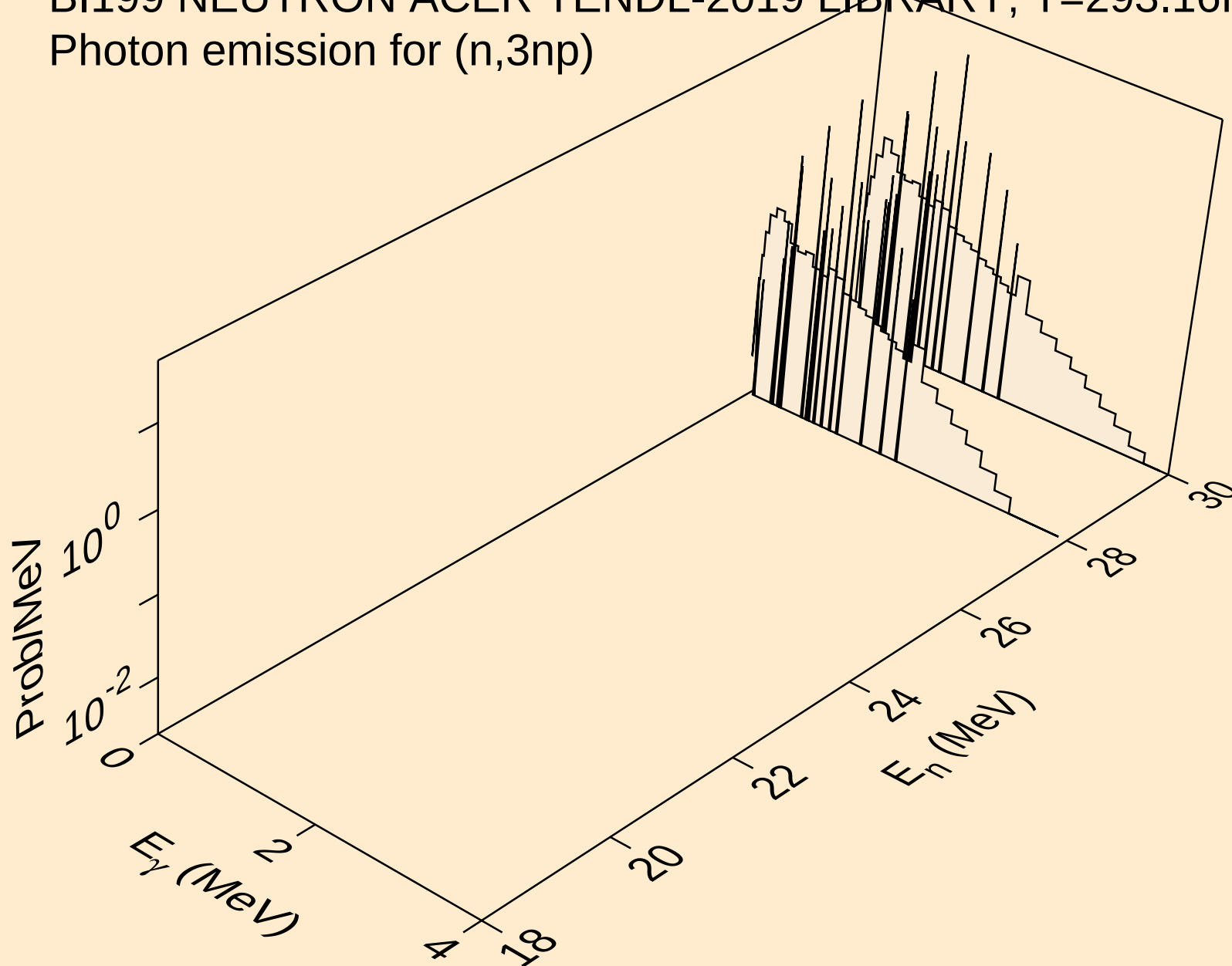
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,4n)



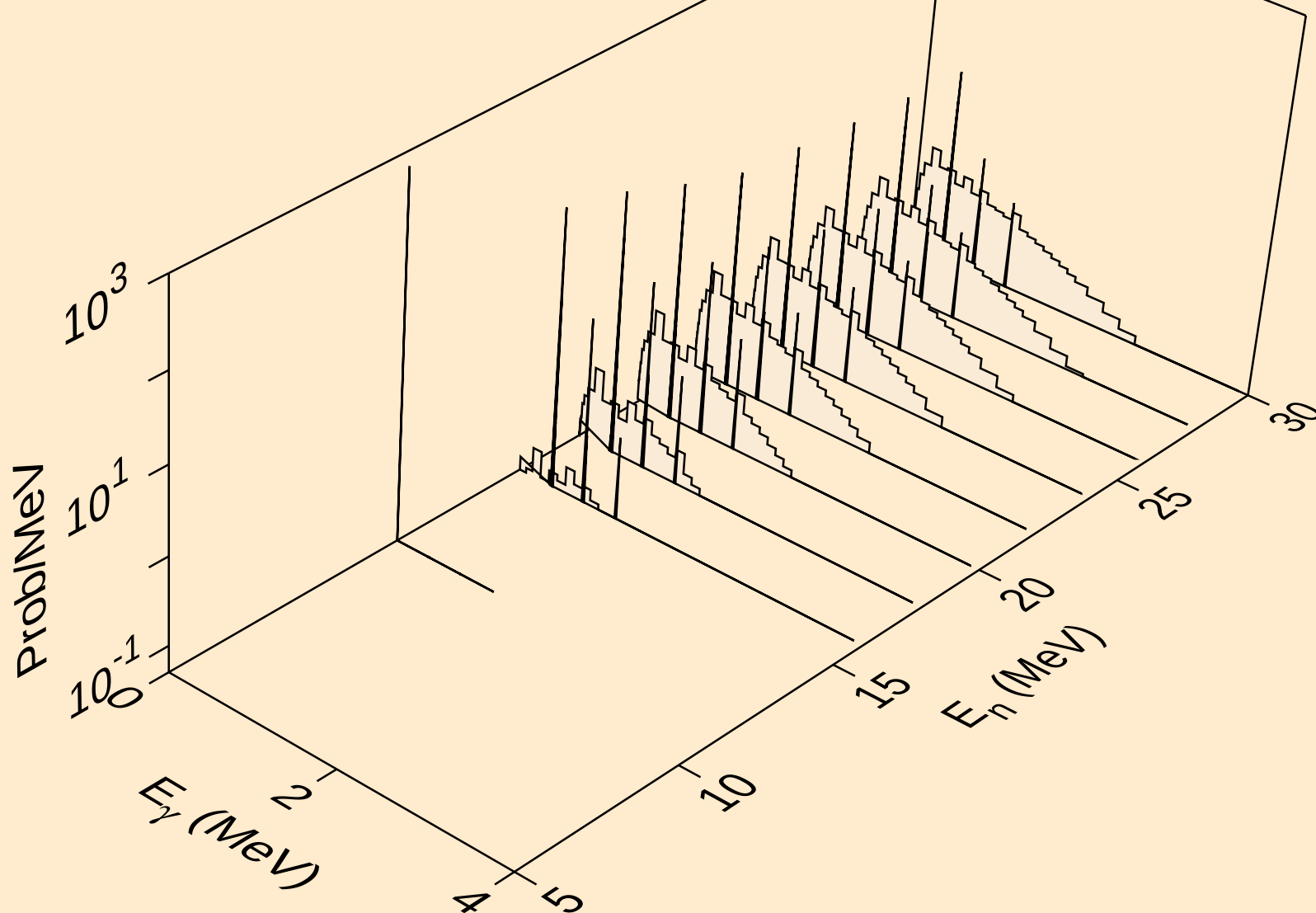
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,2np)



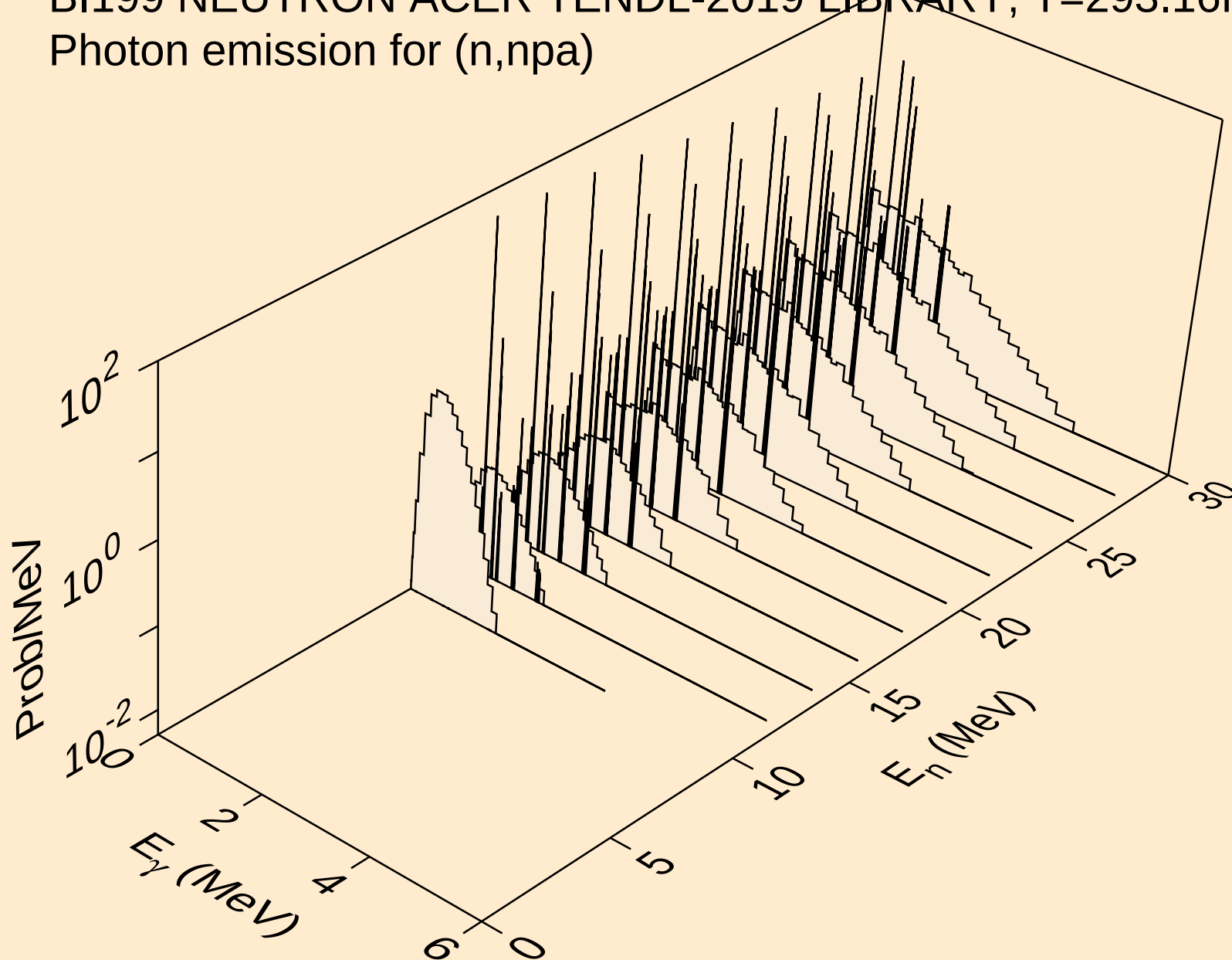
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,3np)



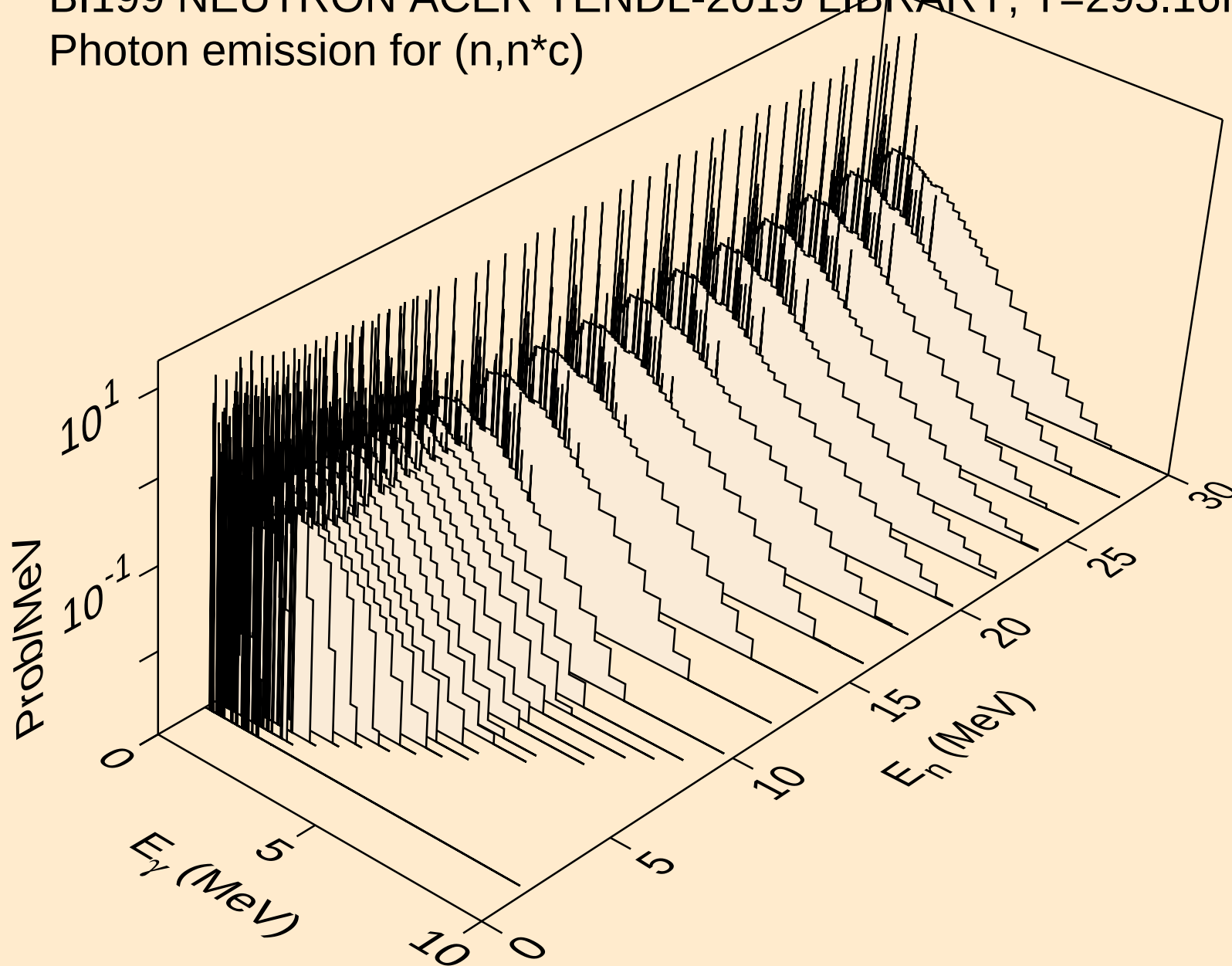
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,2np)



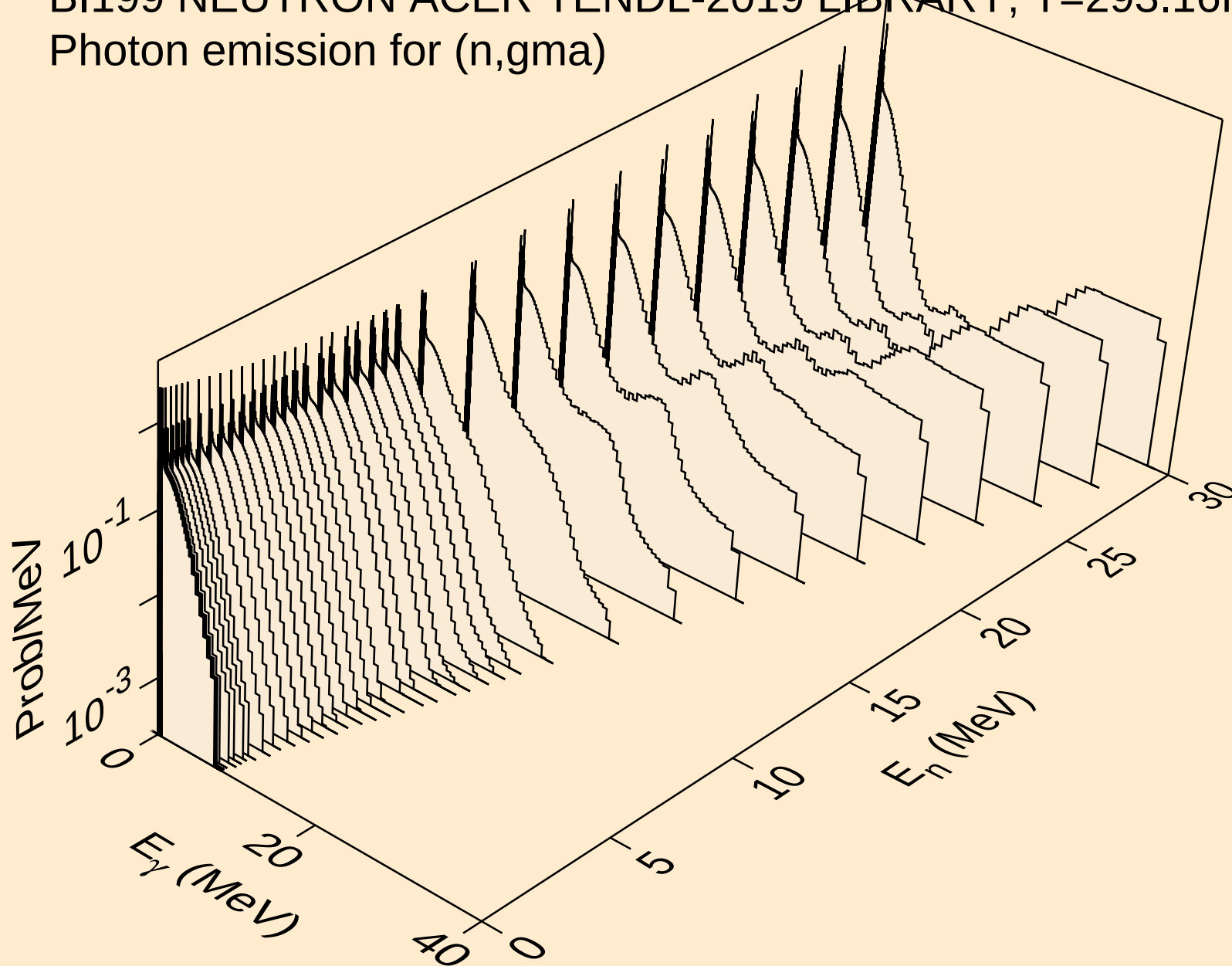
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,npa)



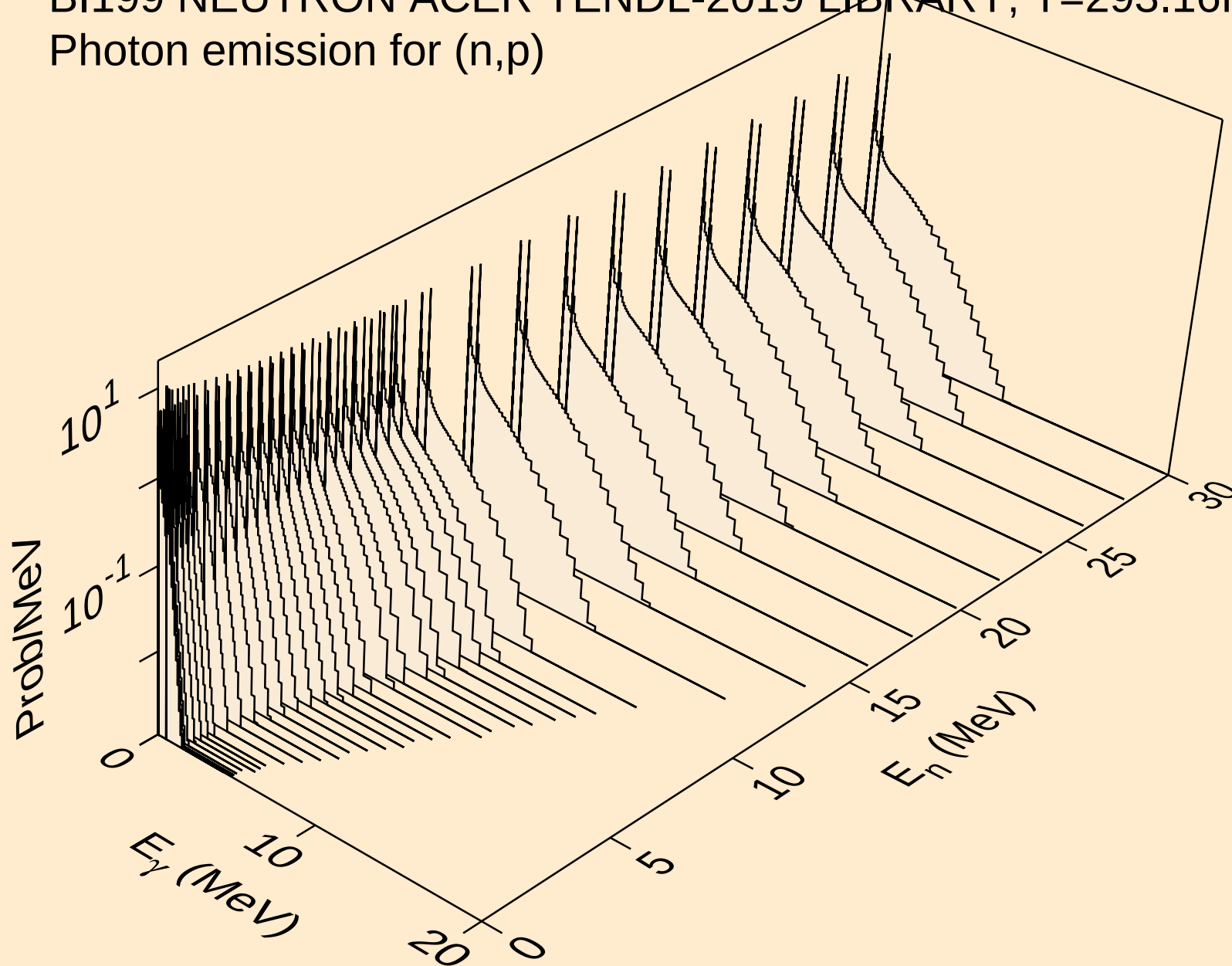
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*c)



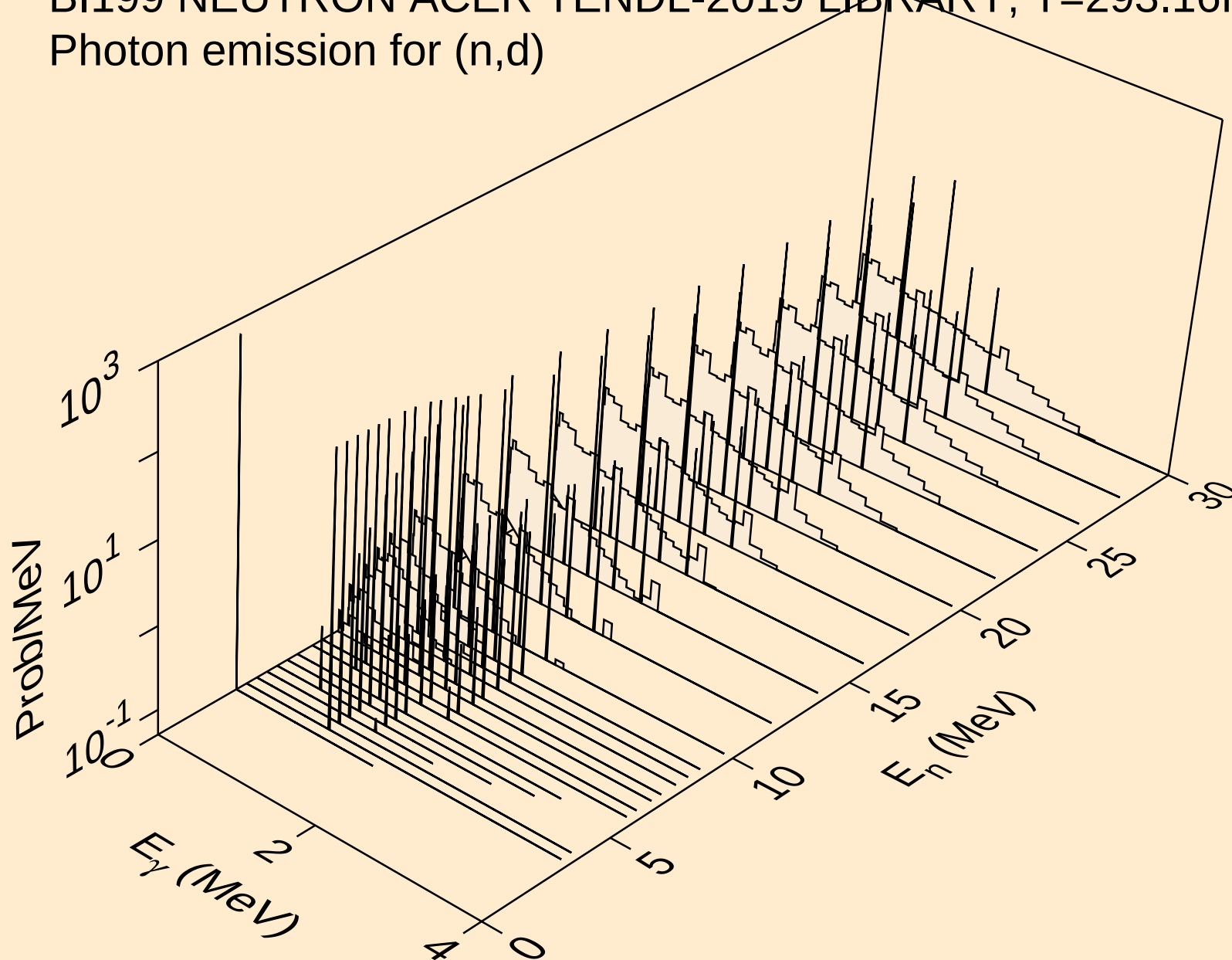
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,gma)



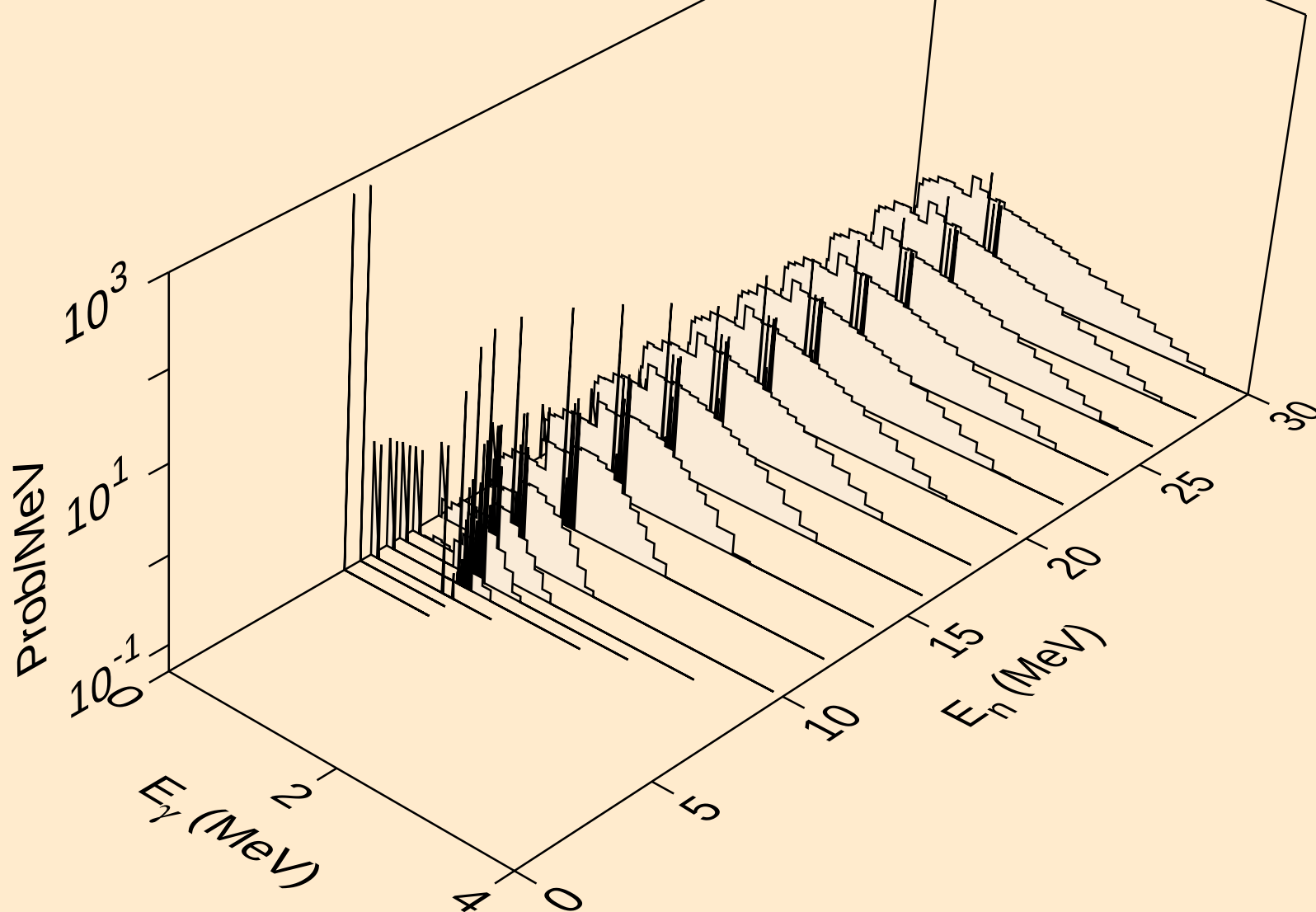
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,p)



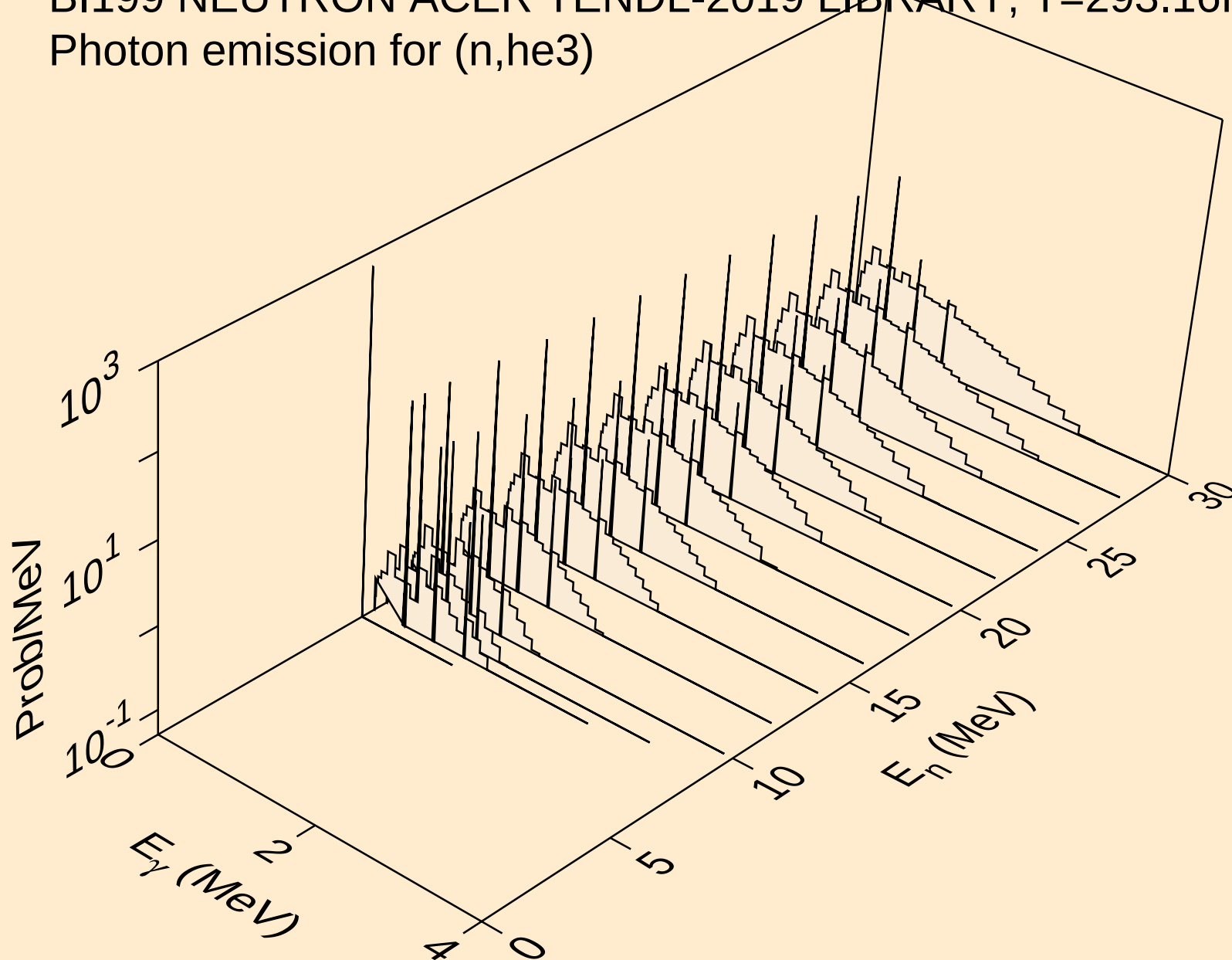
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,d)



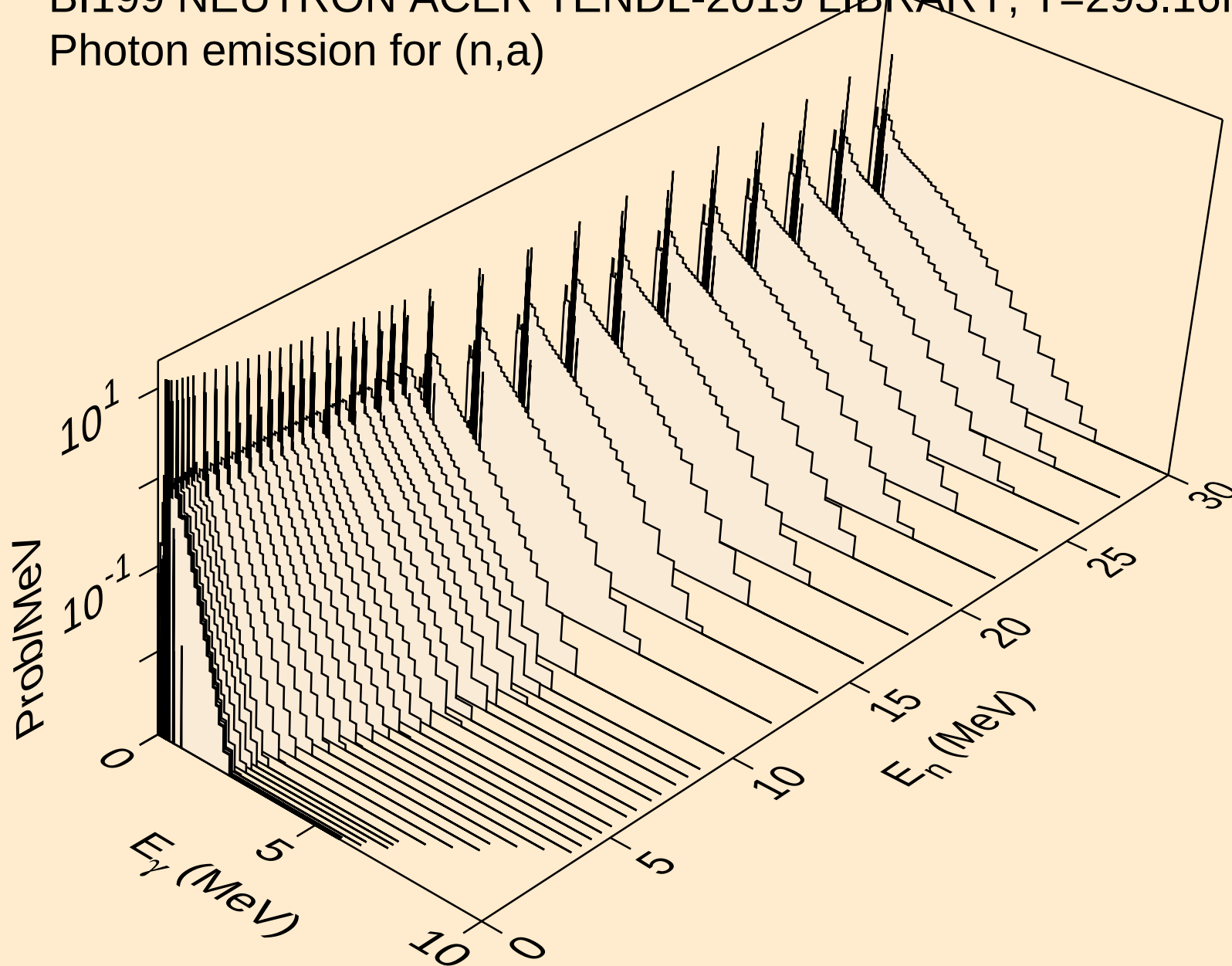
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,t)



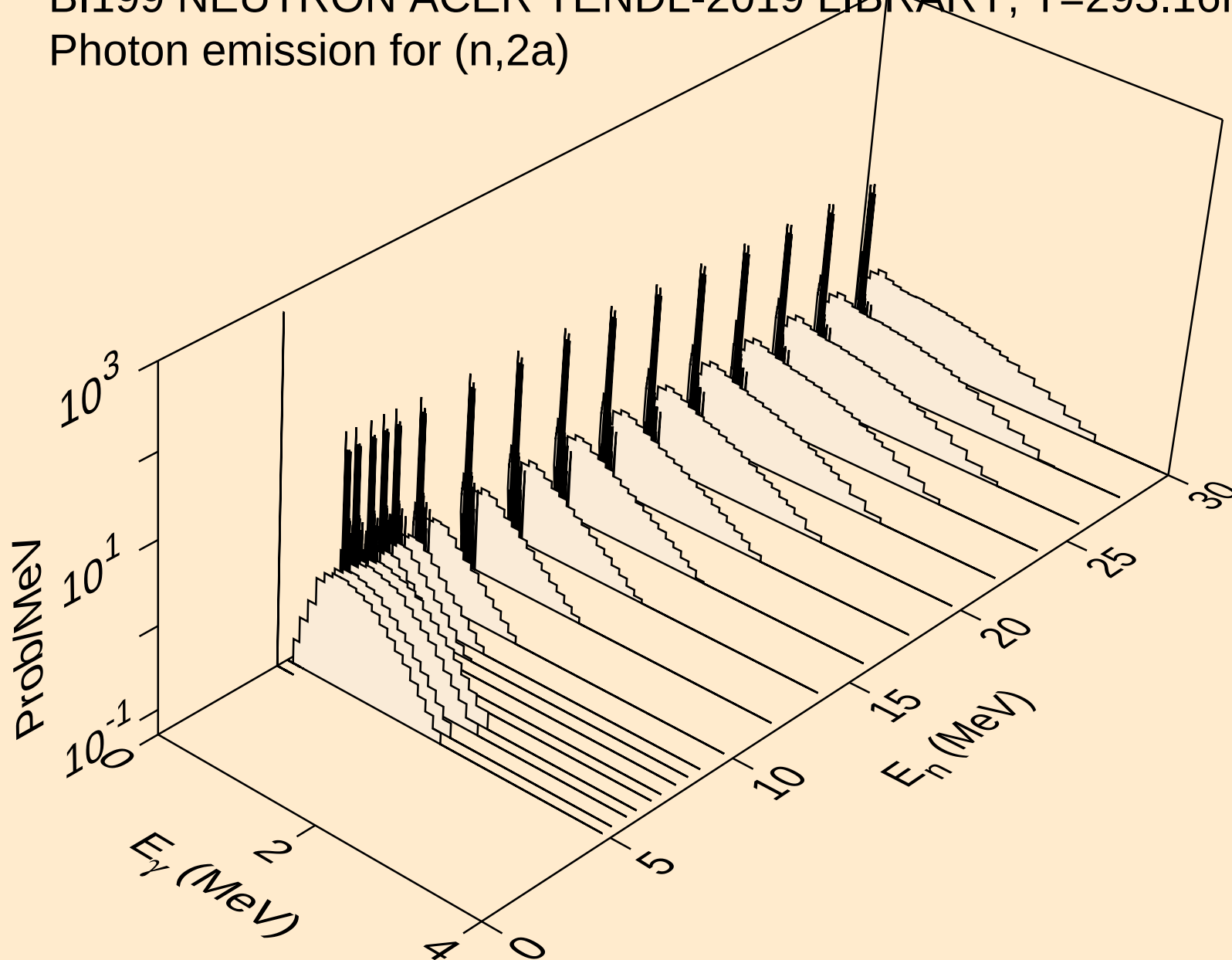
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,he3)



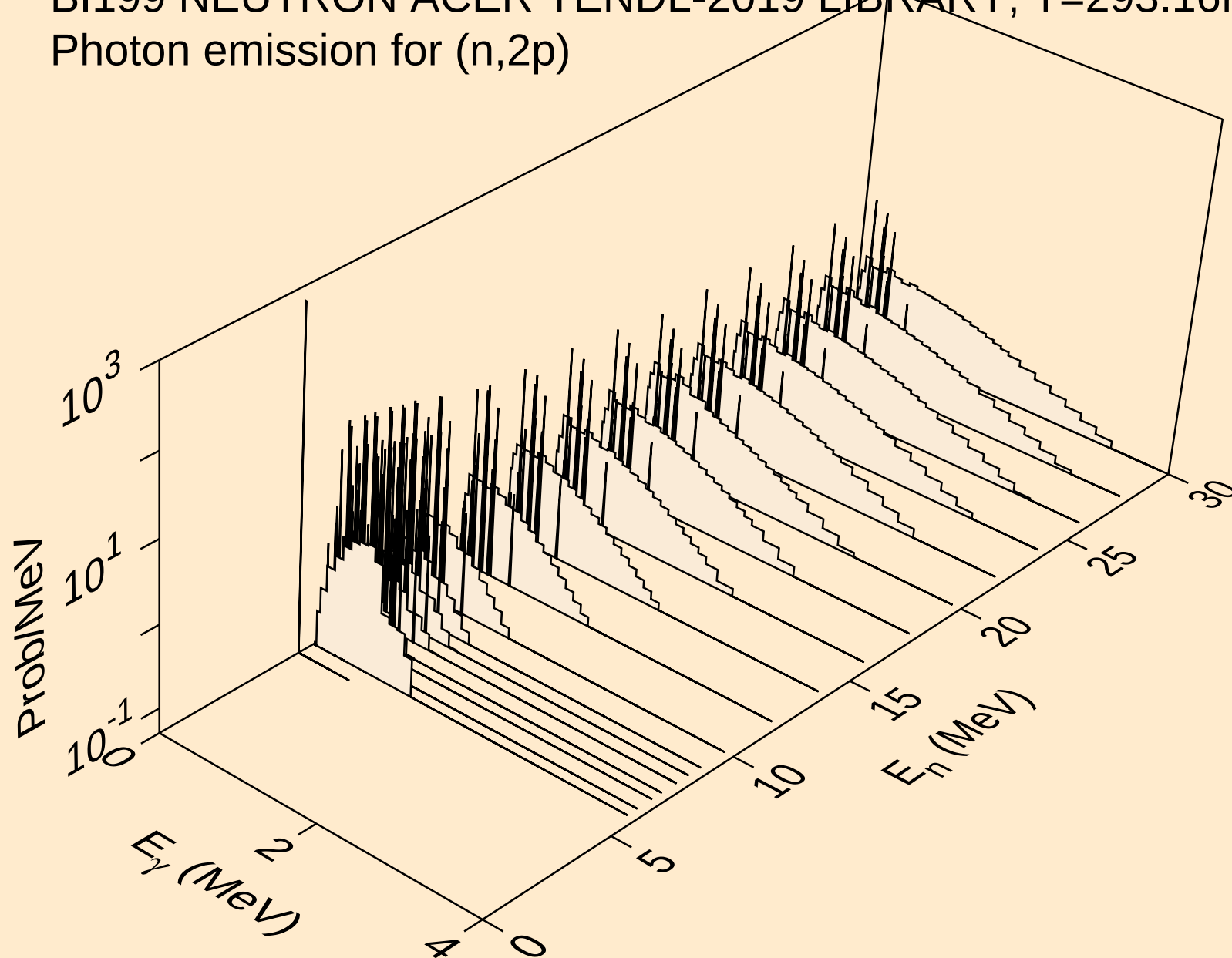
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,a)



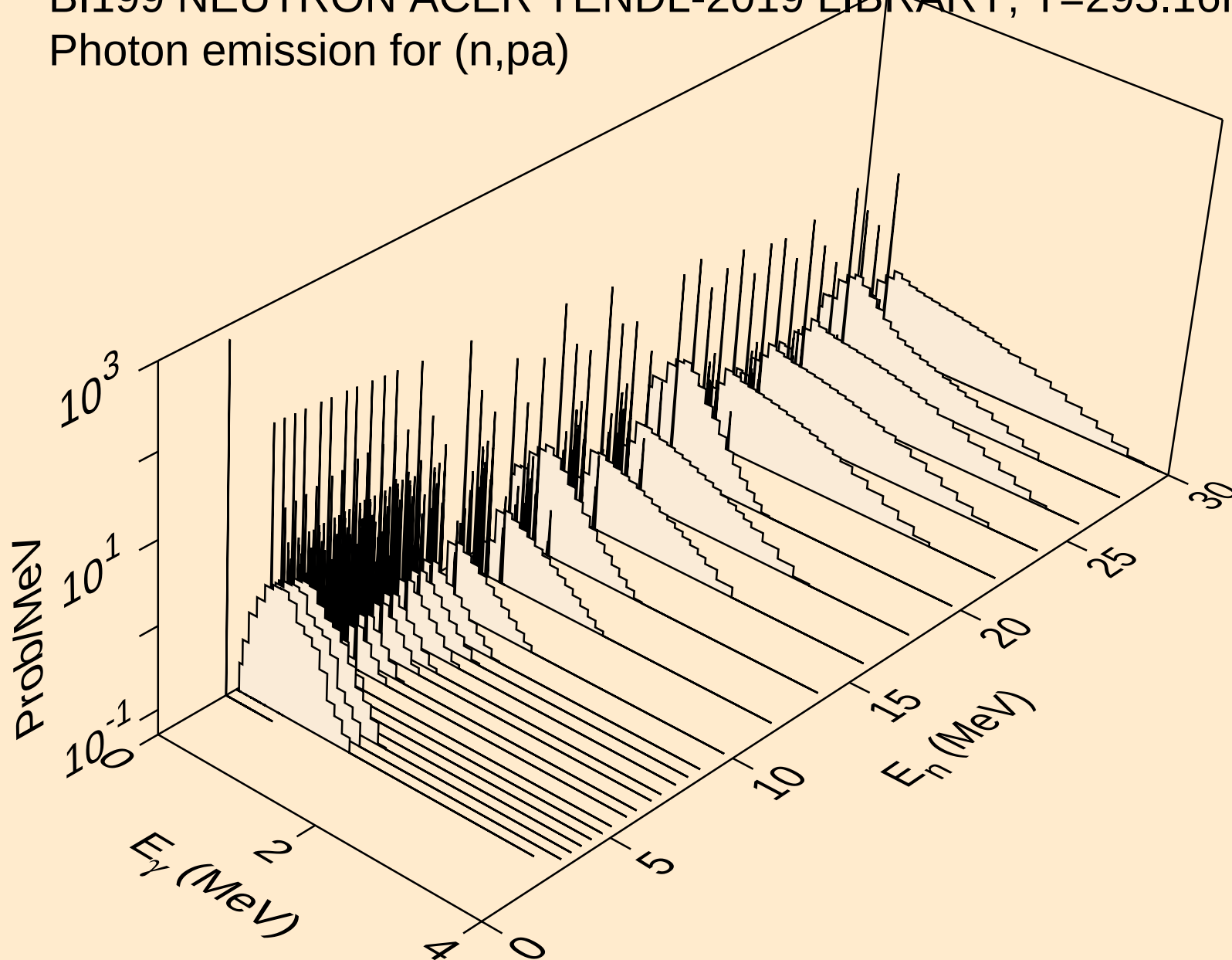
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,2a)



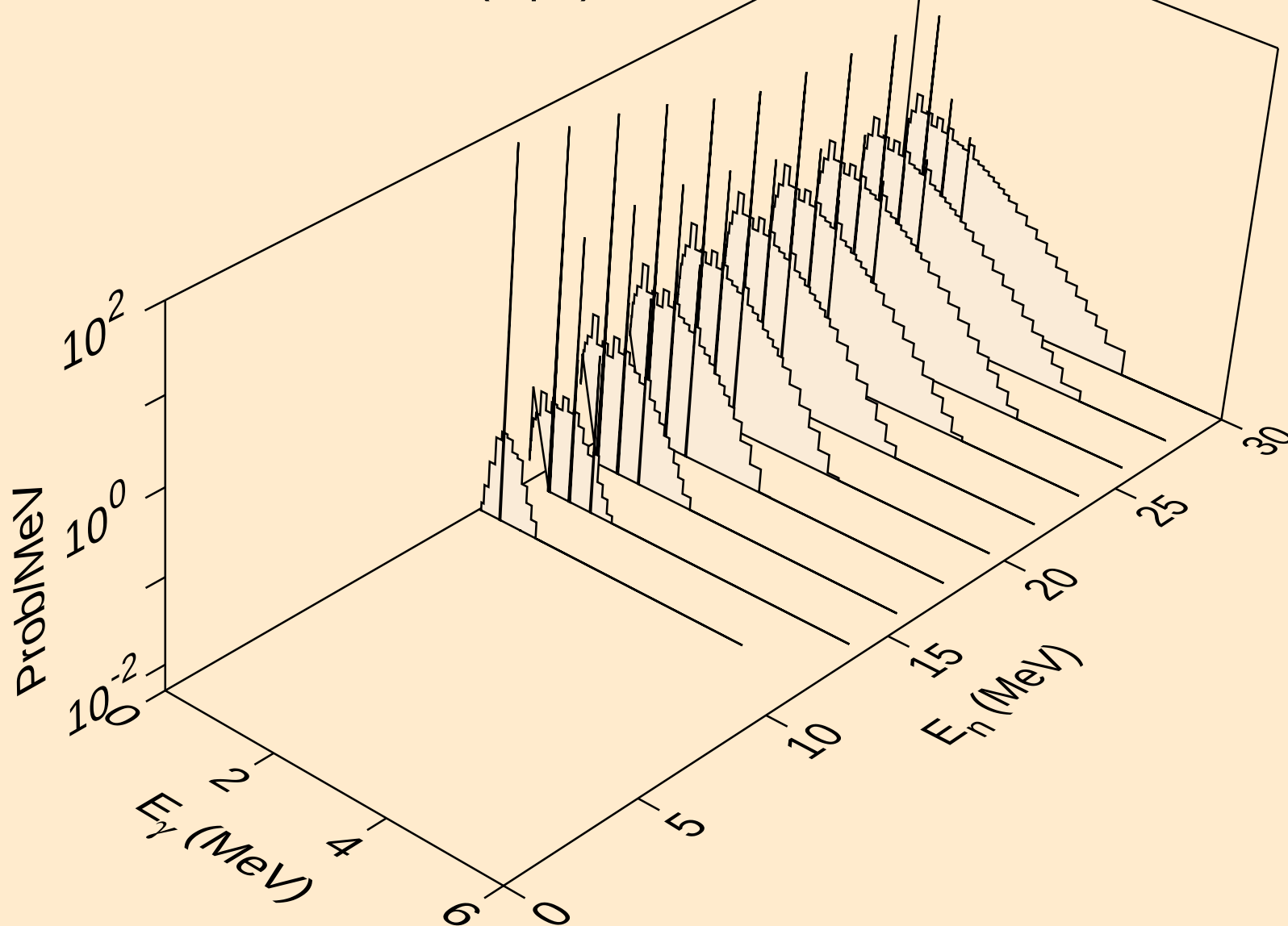
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,2p)



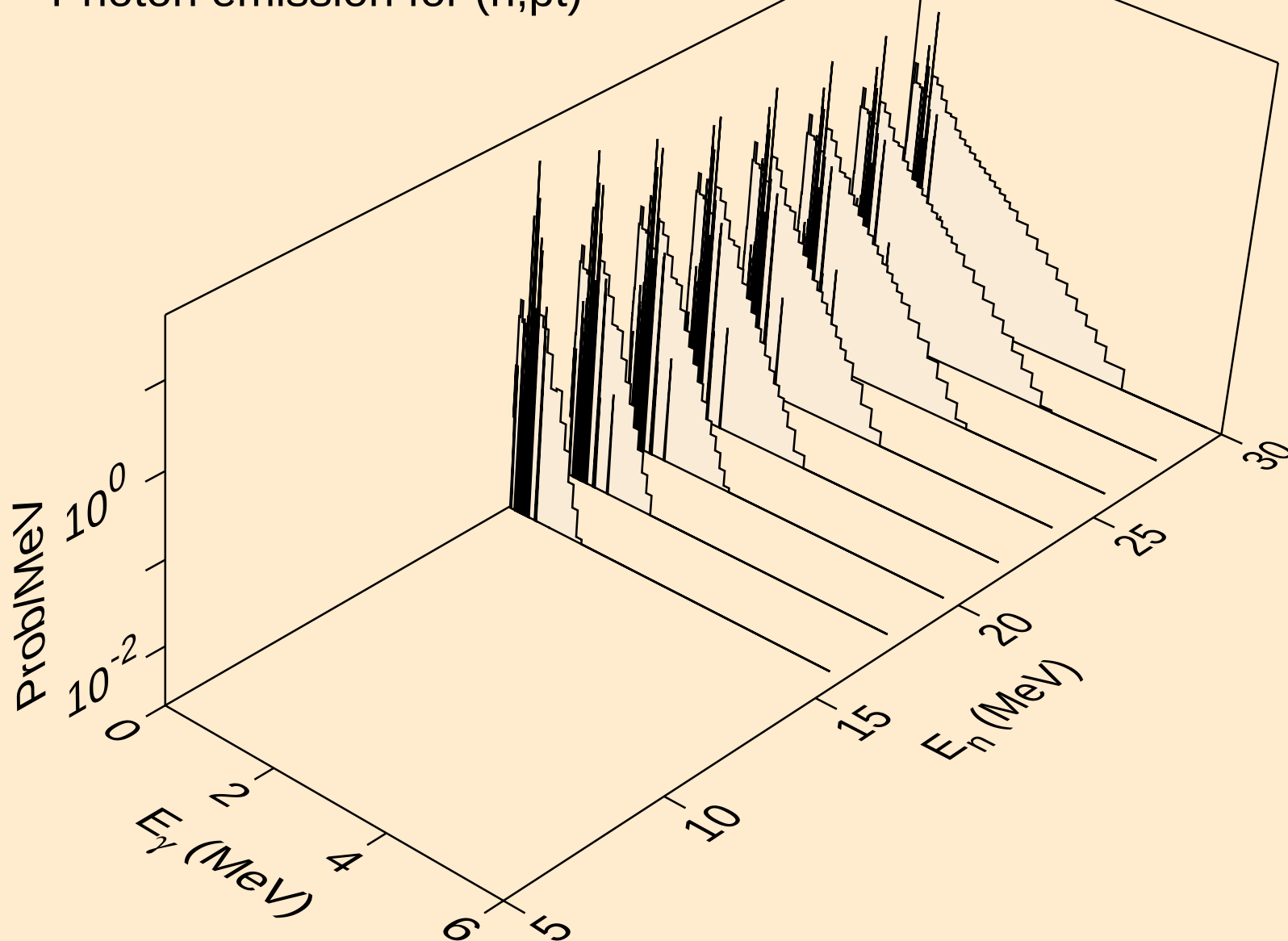
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,p α)



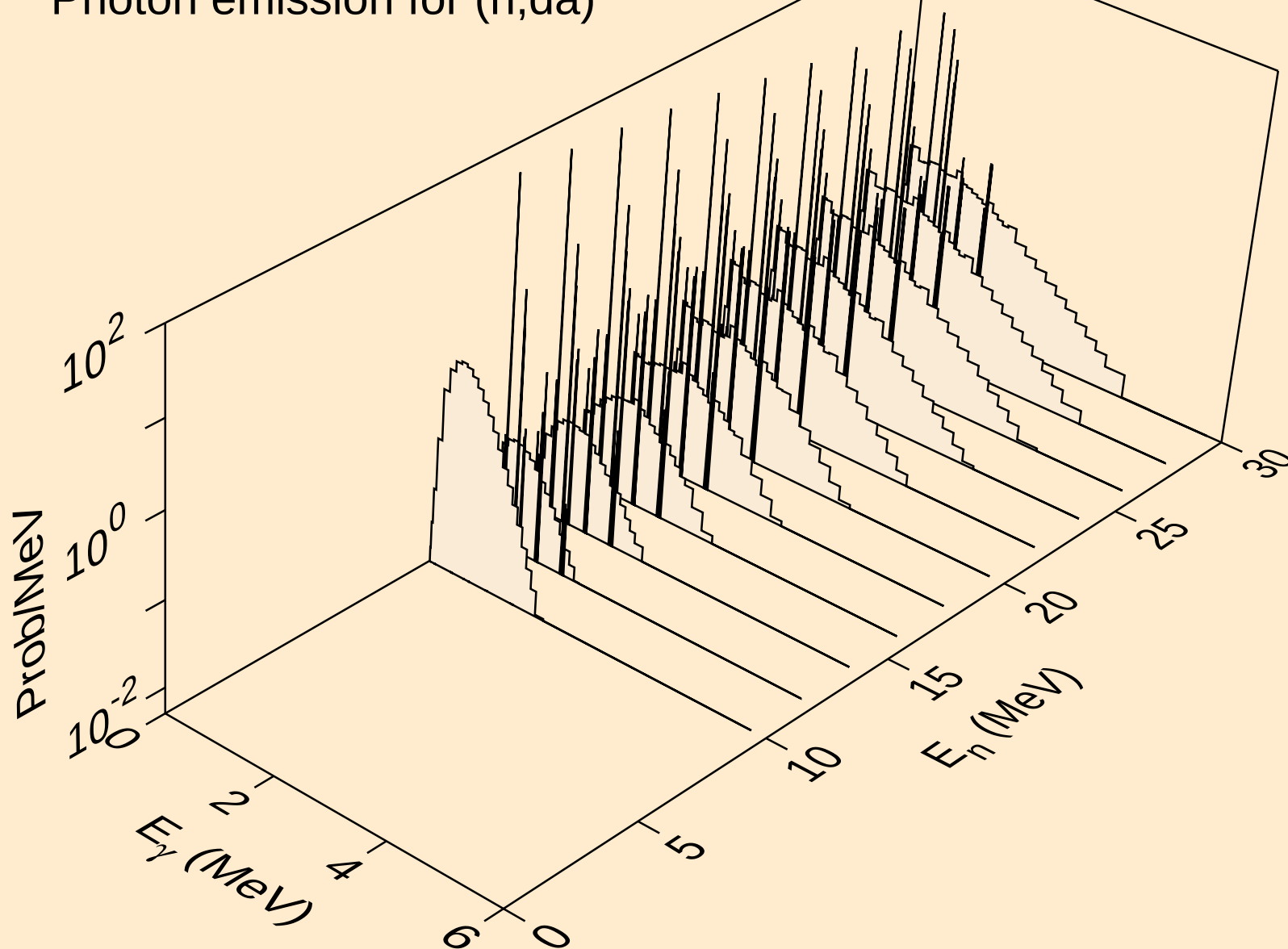
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,pd)



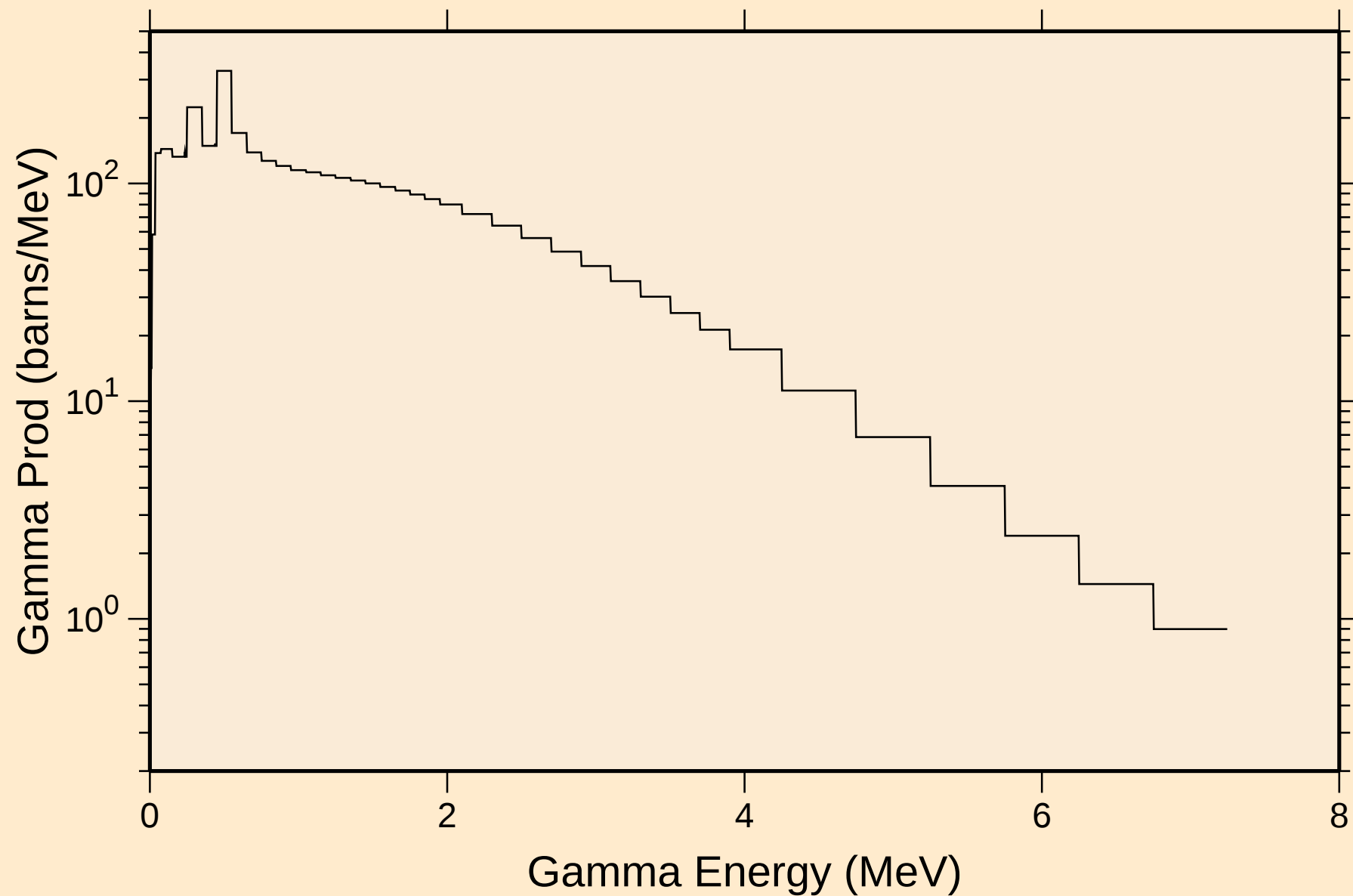
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,pt)



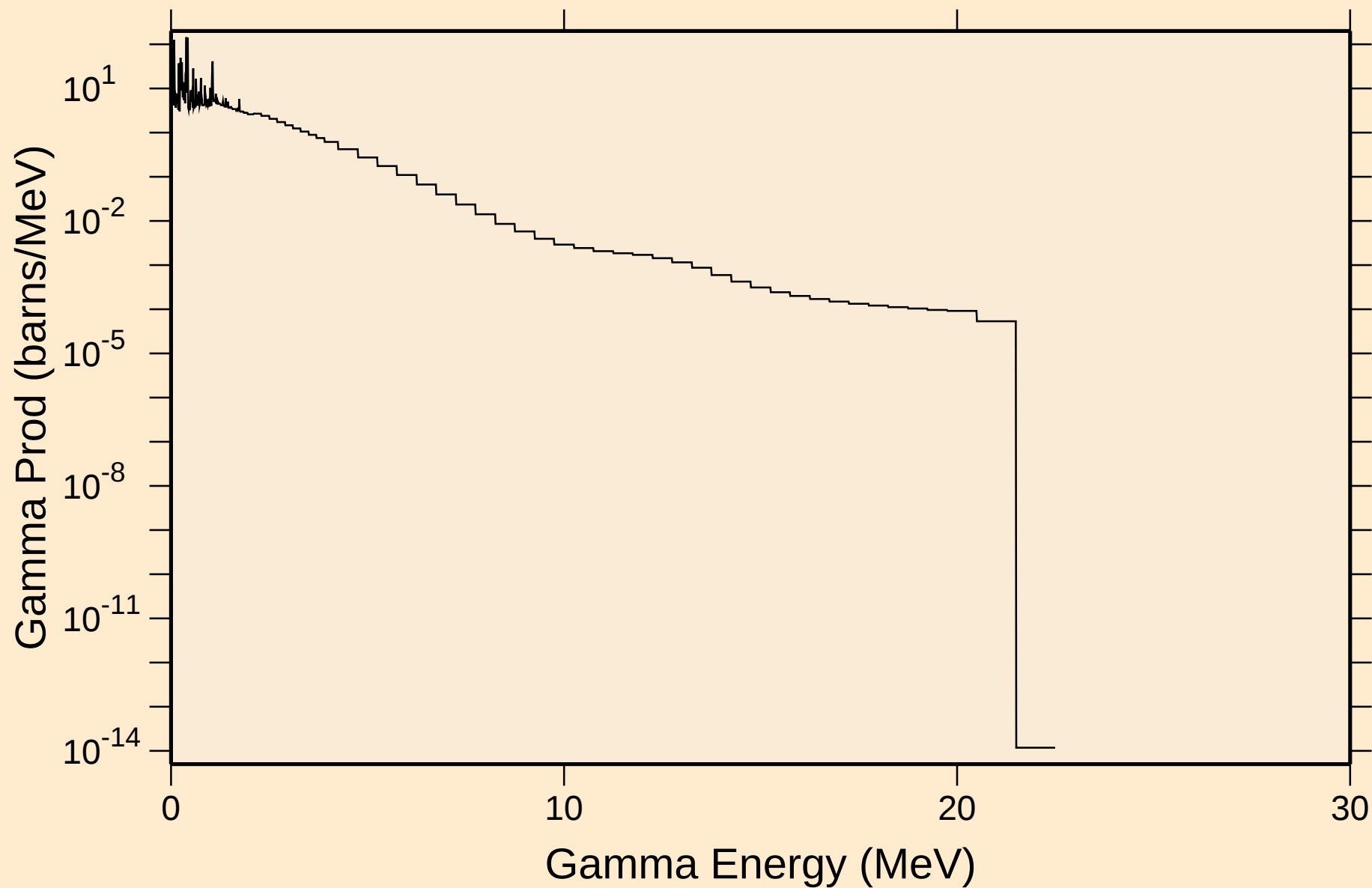
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,da)



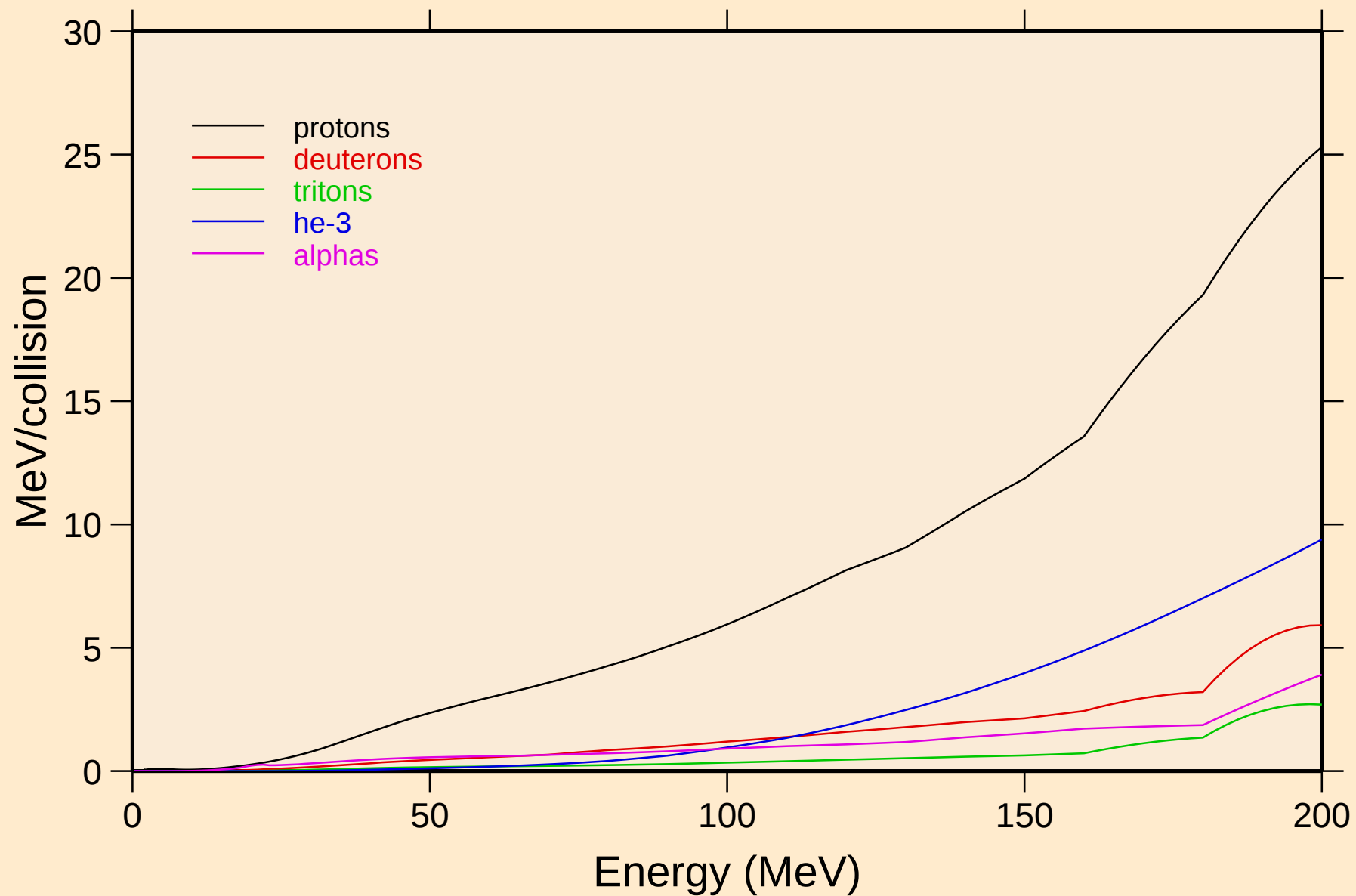
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
thermal capture photon spectrum



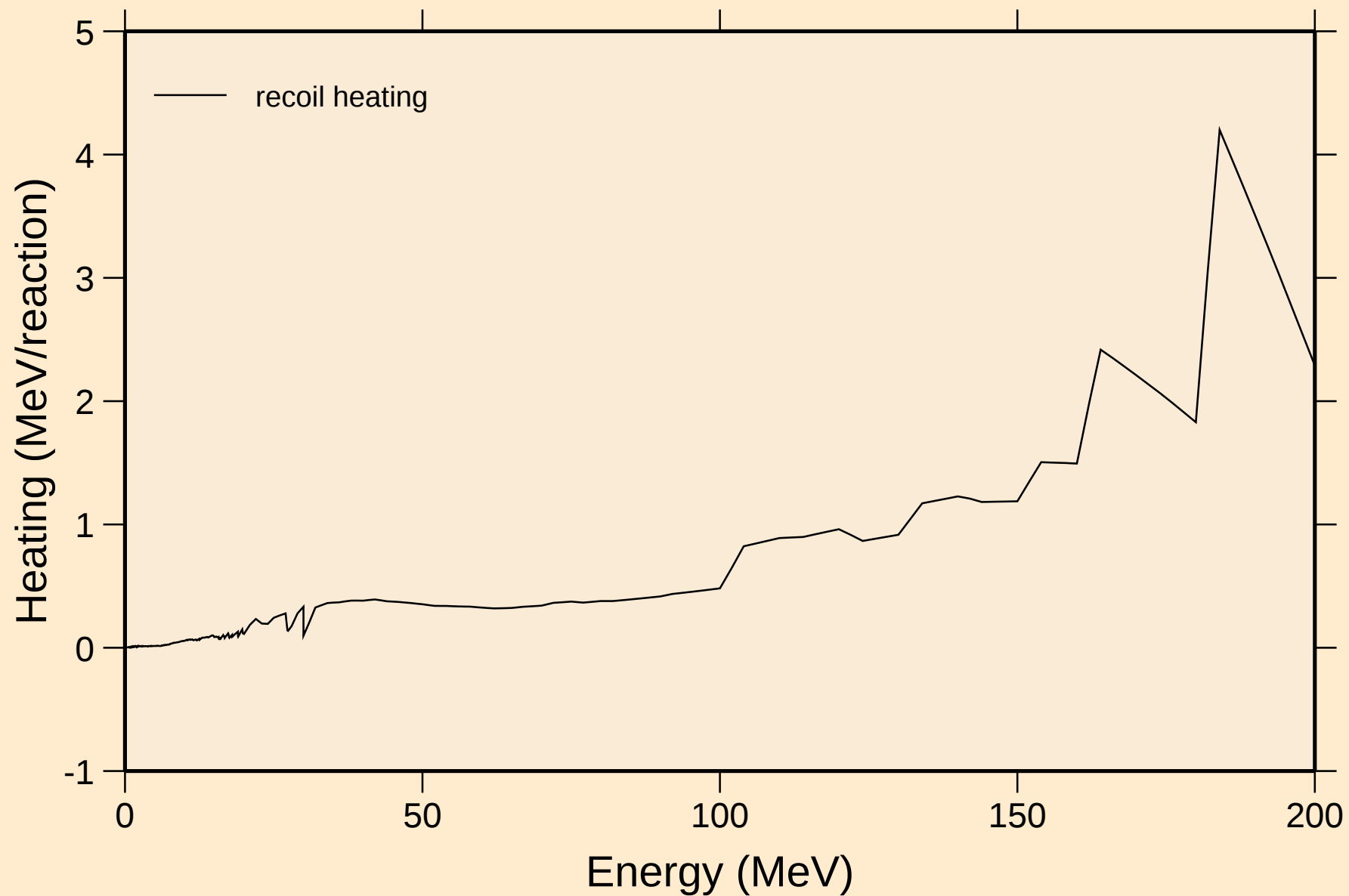
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
14 MeV photon spectrum



BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Particle heating contributions

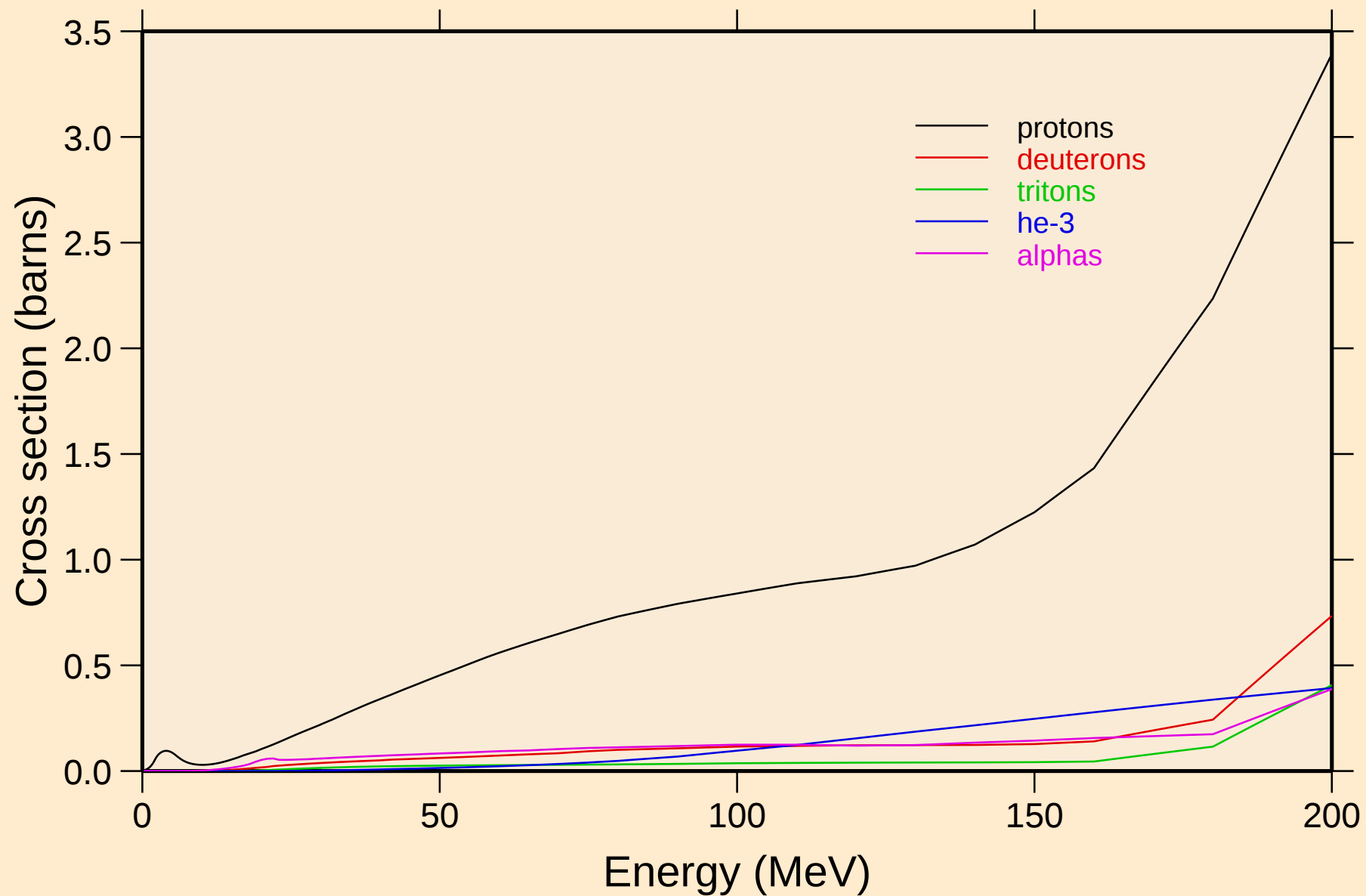


BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Recoil Heating

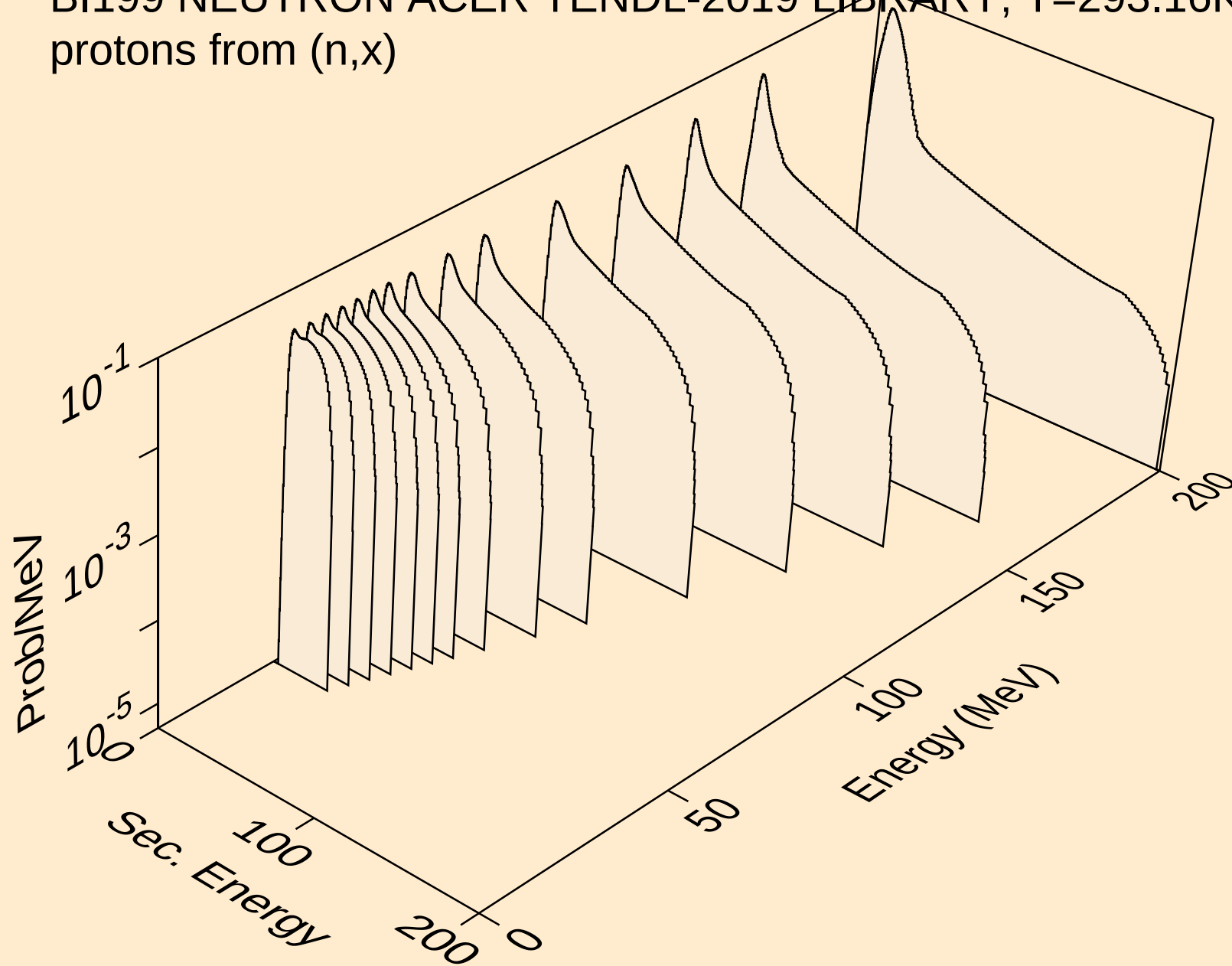


BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

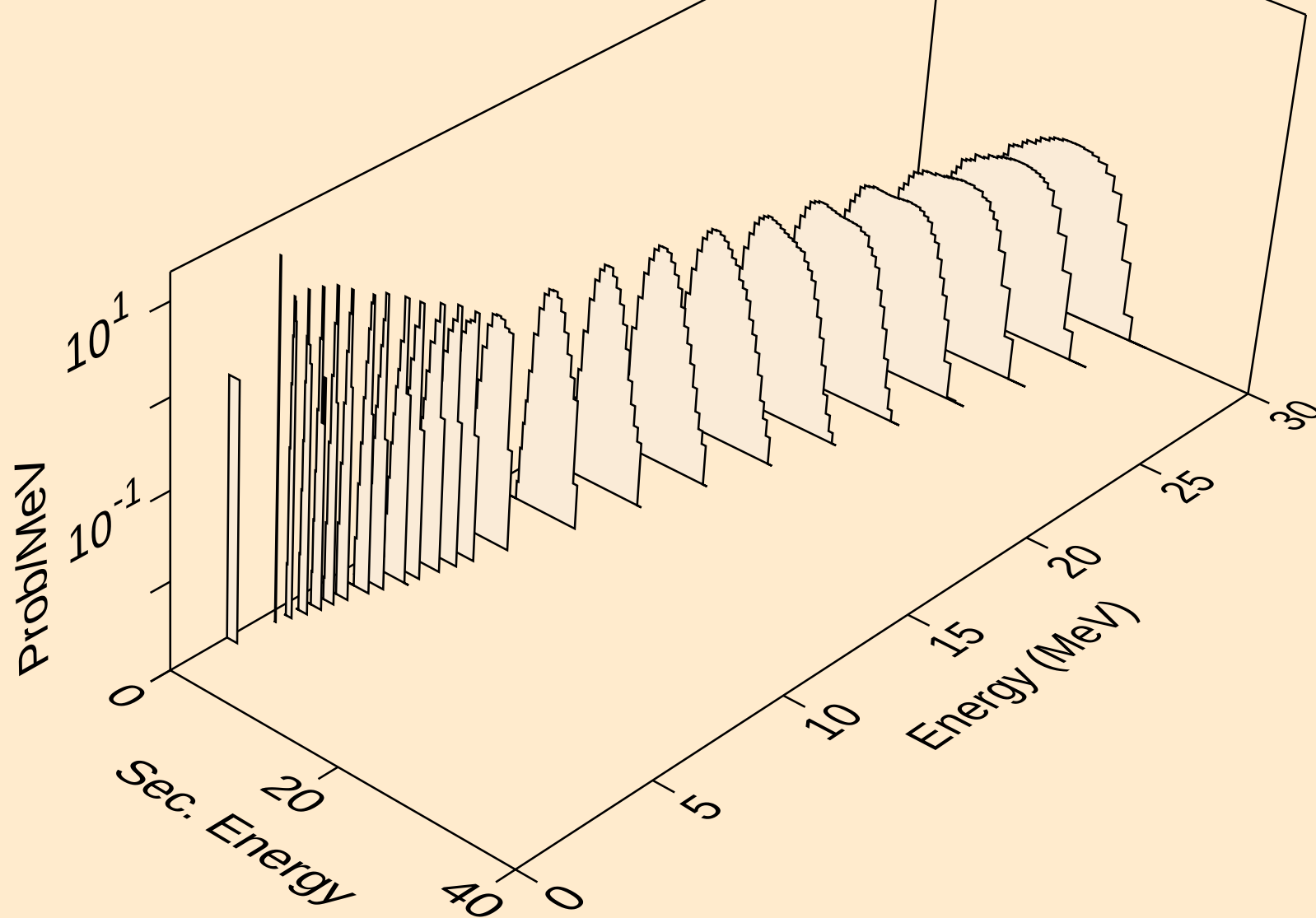
Particle production cross sections



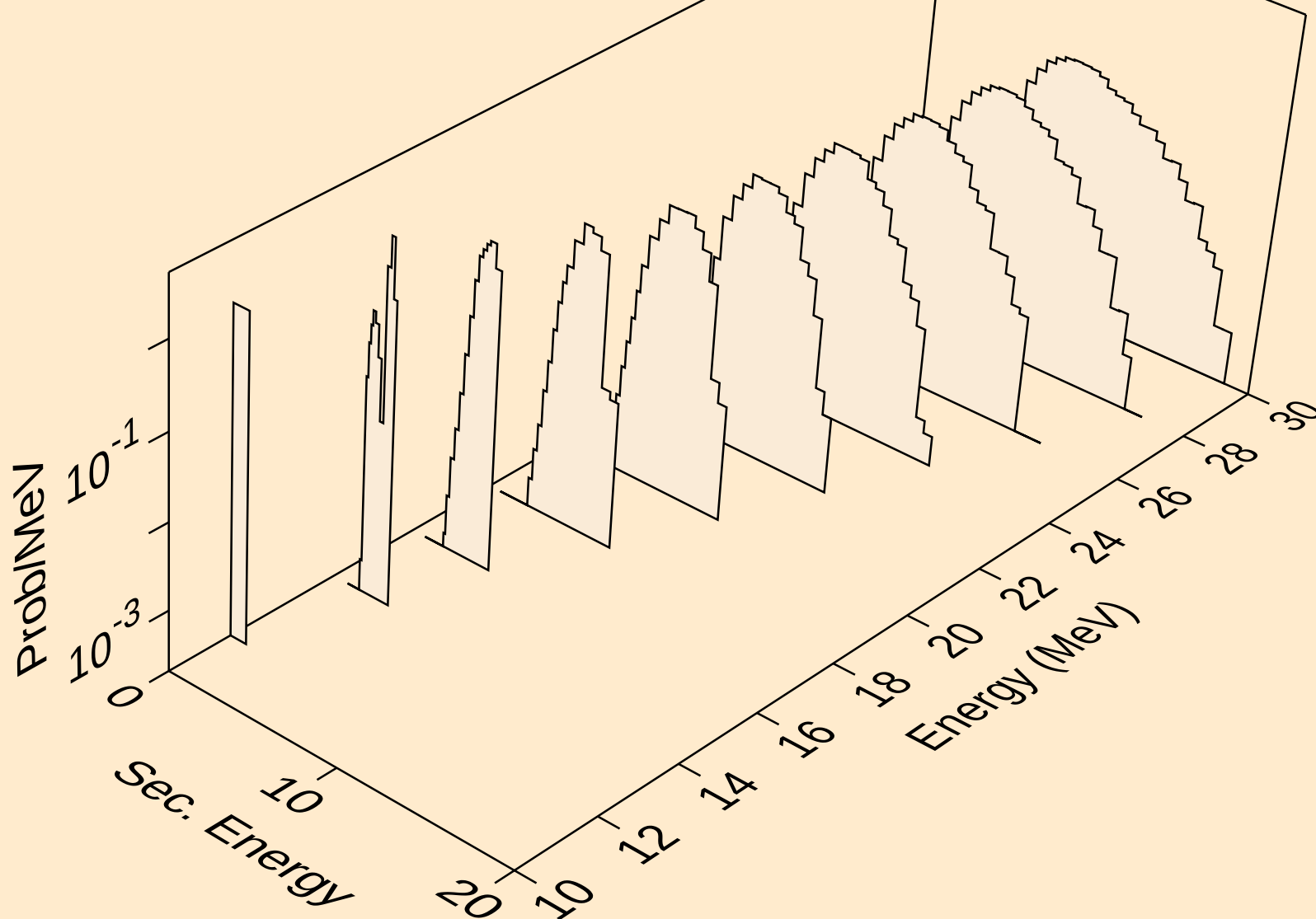
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,x)



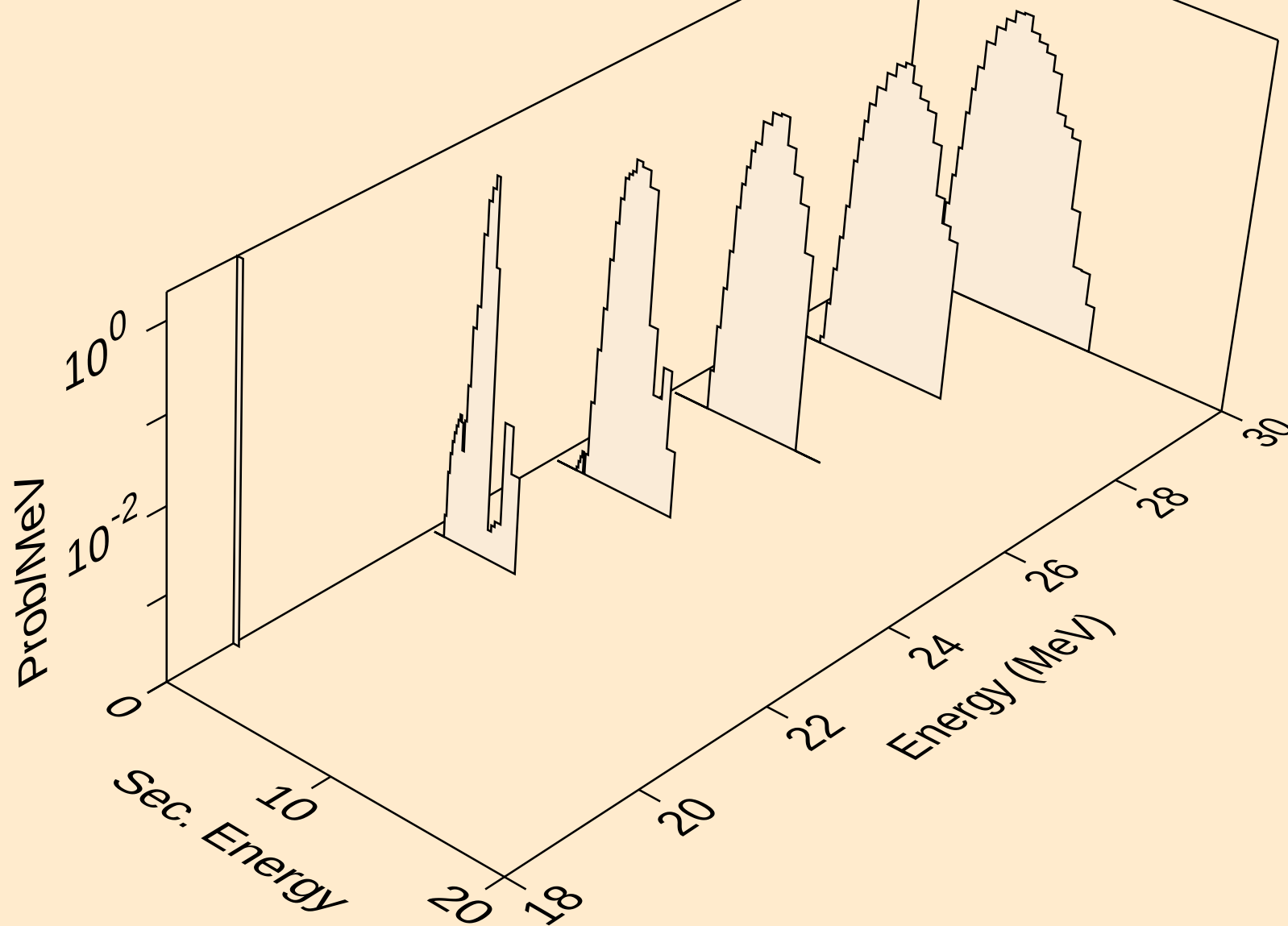
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,n*)p



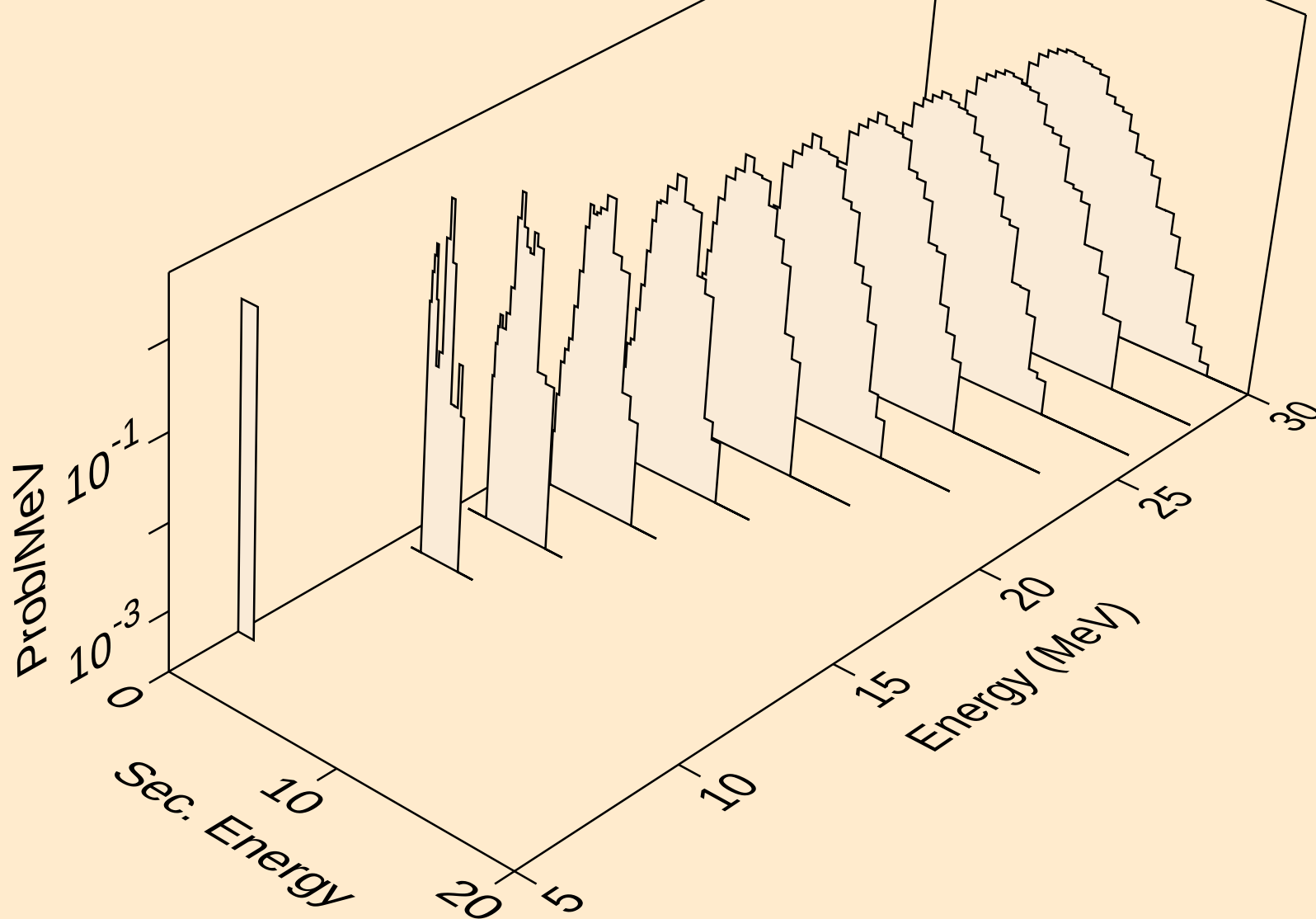
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,2np)



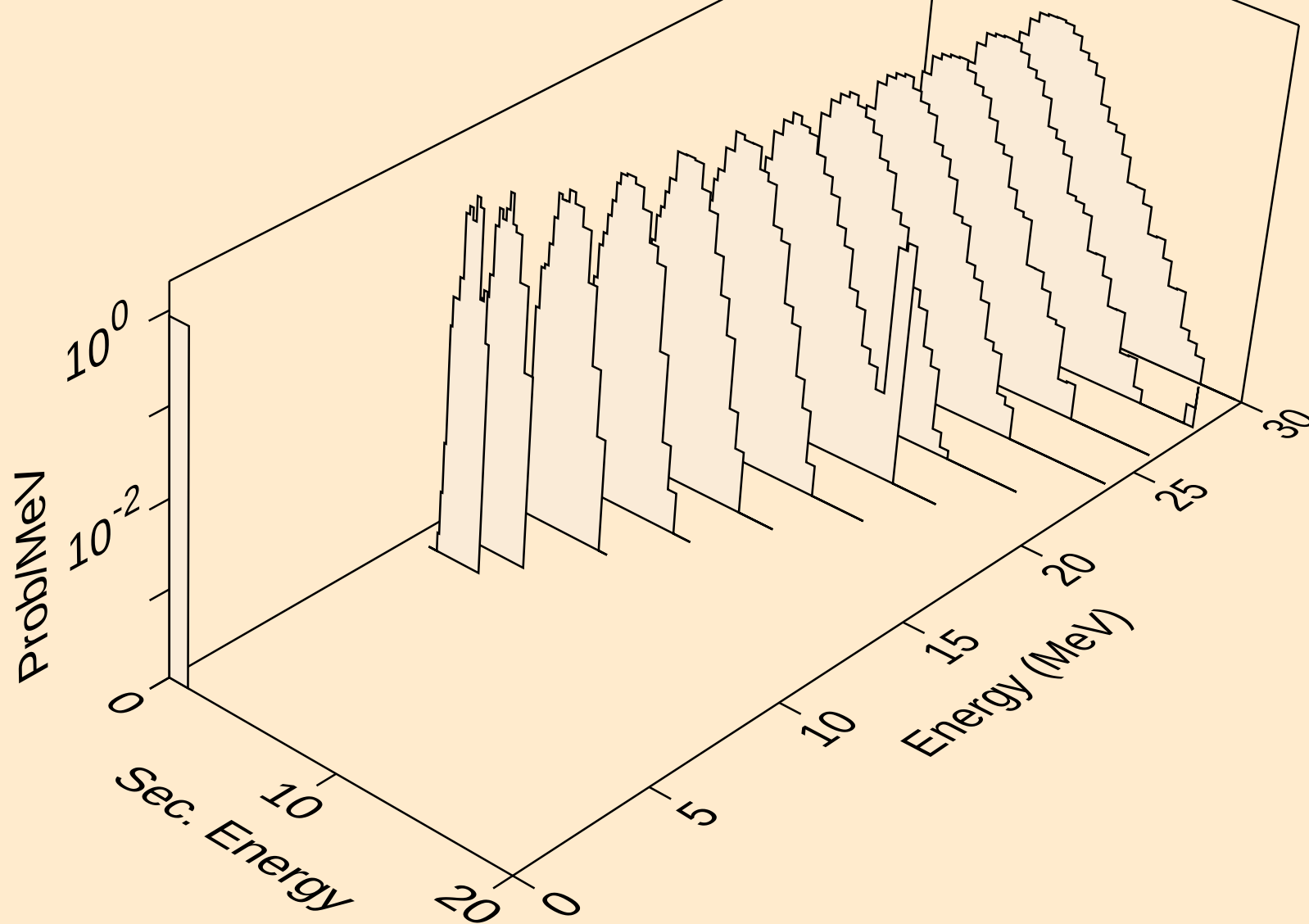
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,3np)



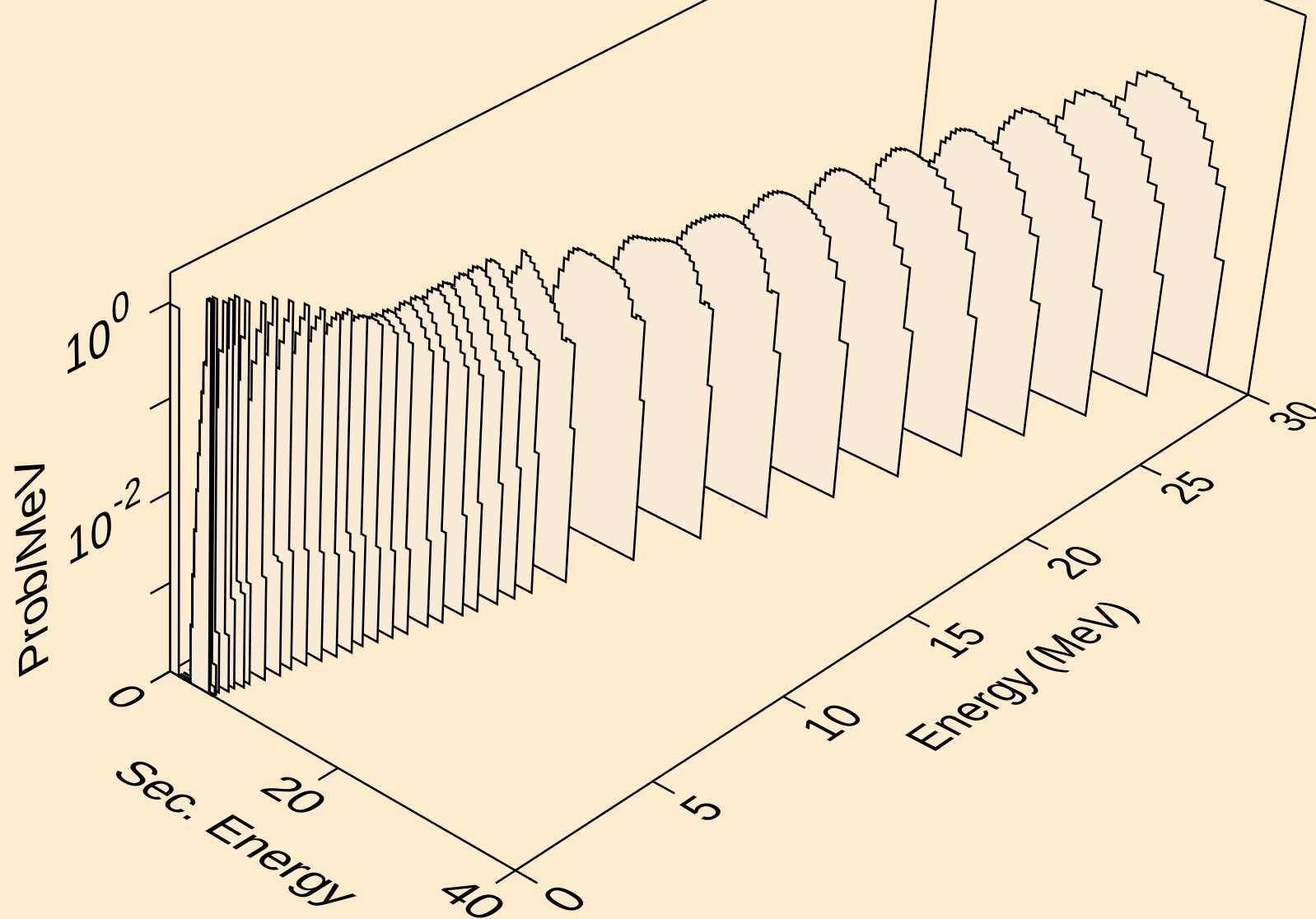
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,2np)



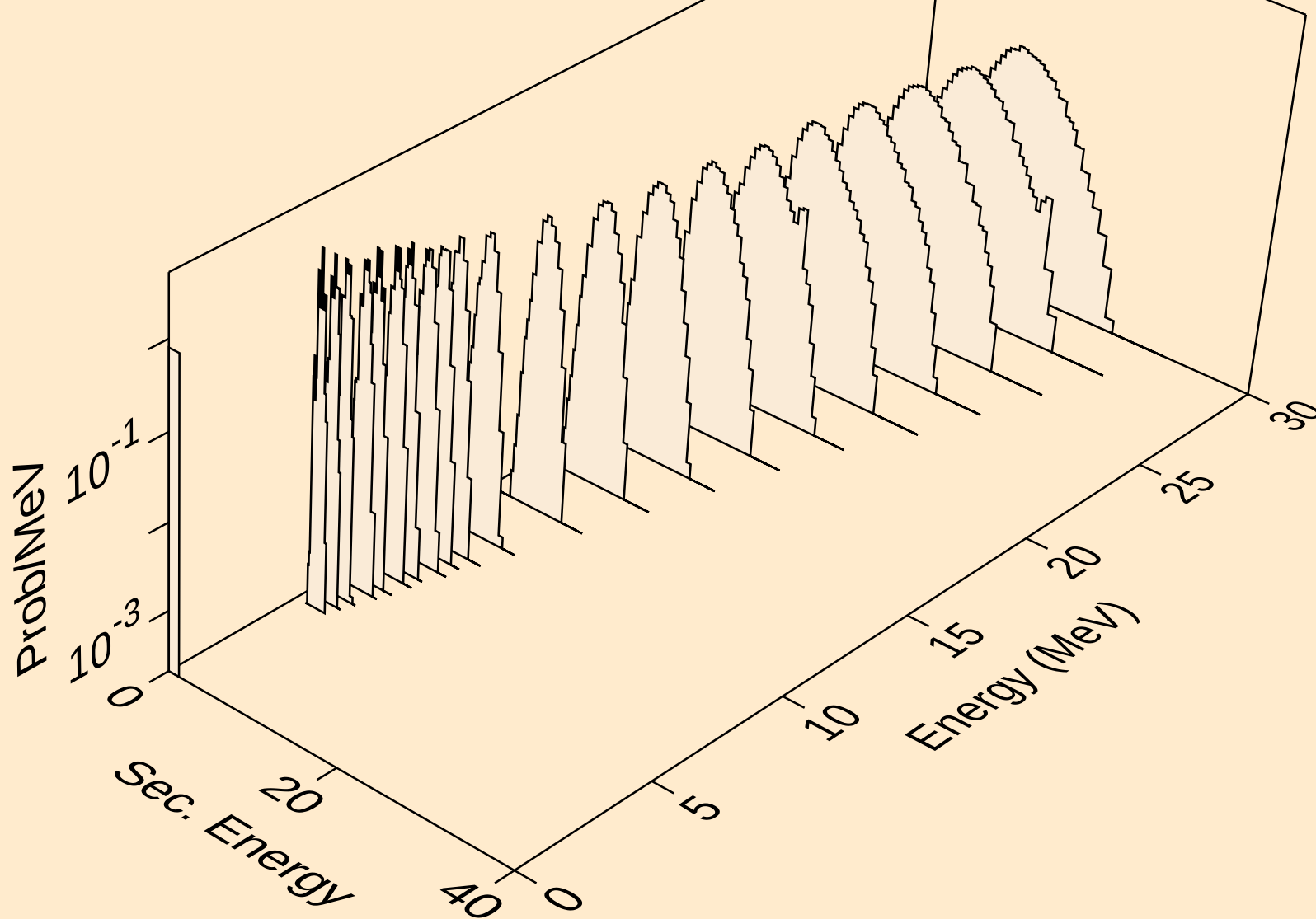
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,npa)



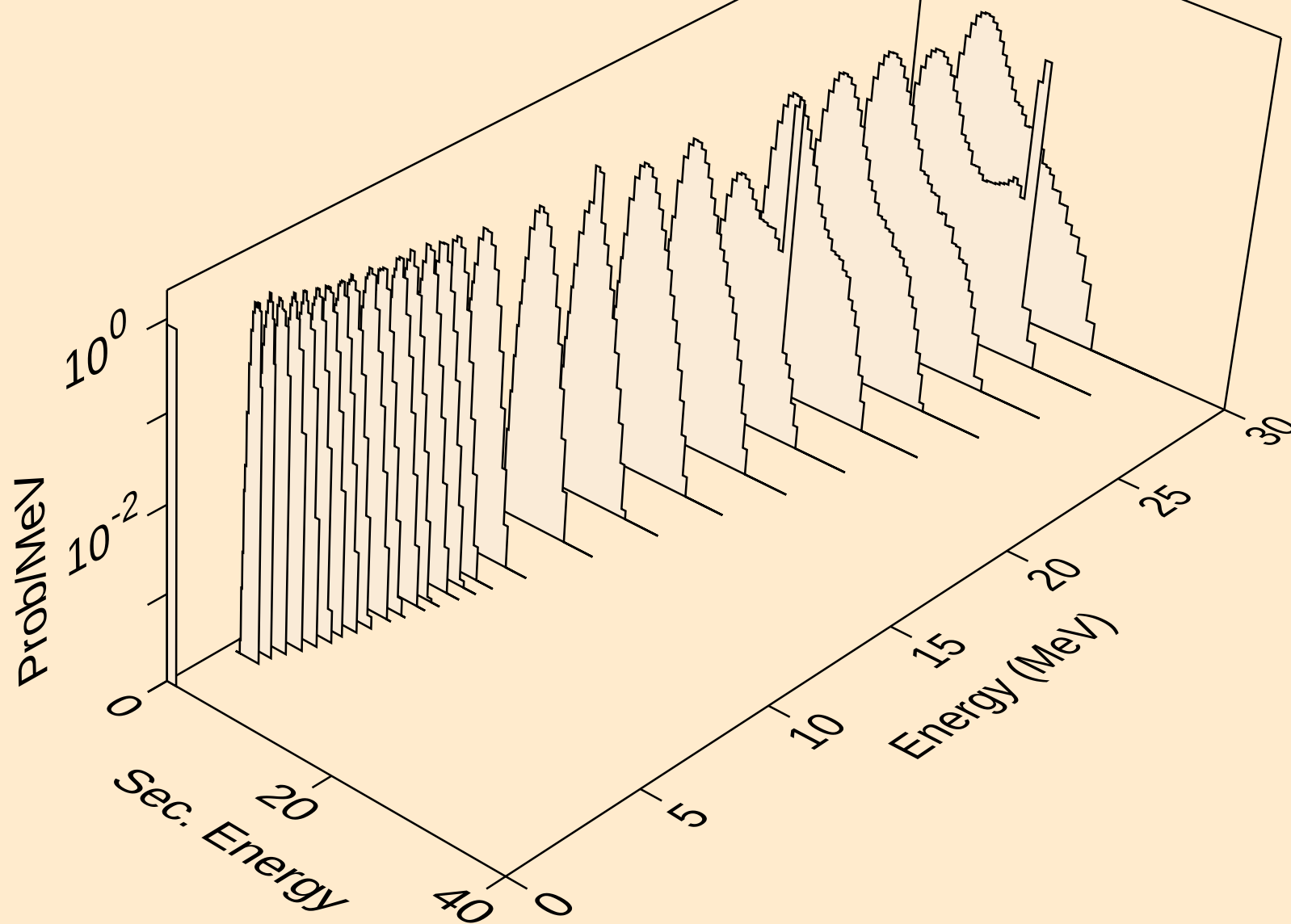
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,p)



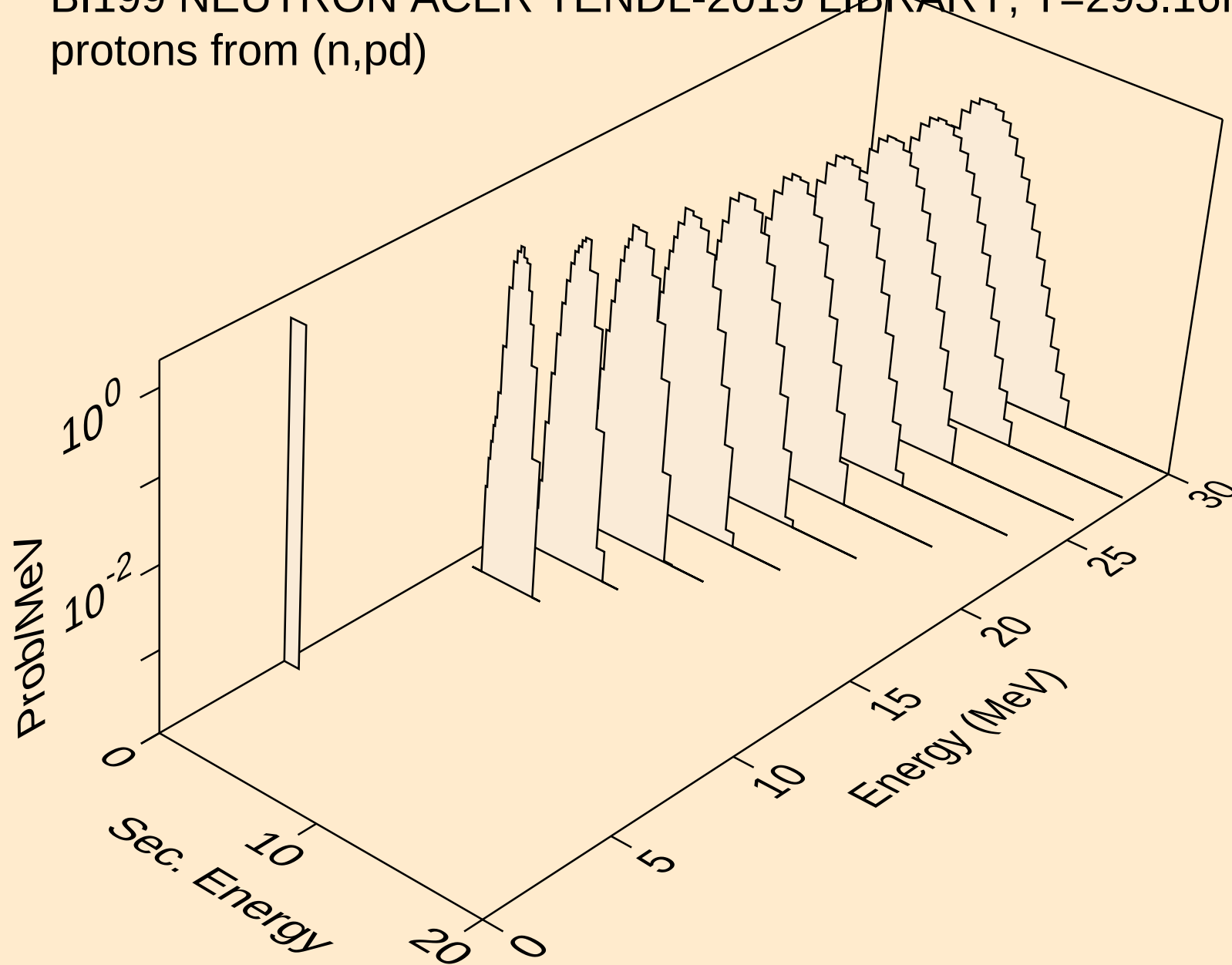
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,2p)



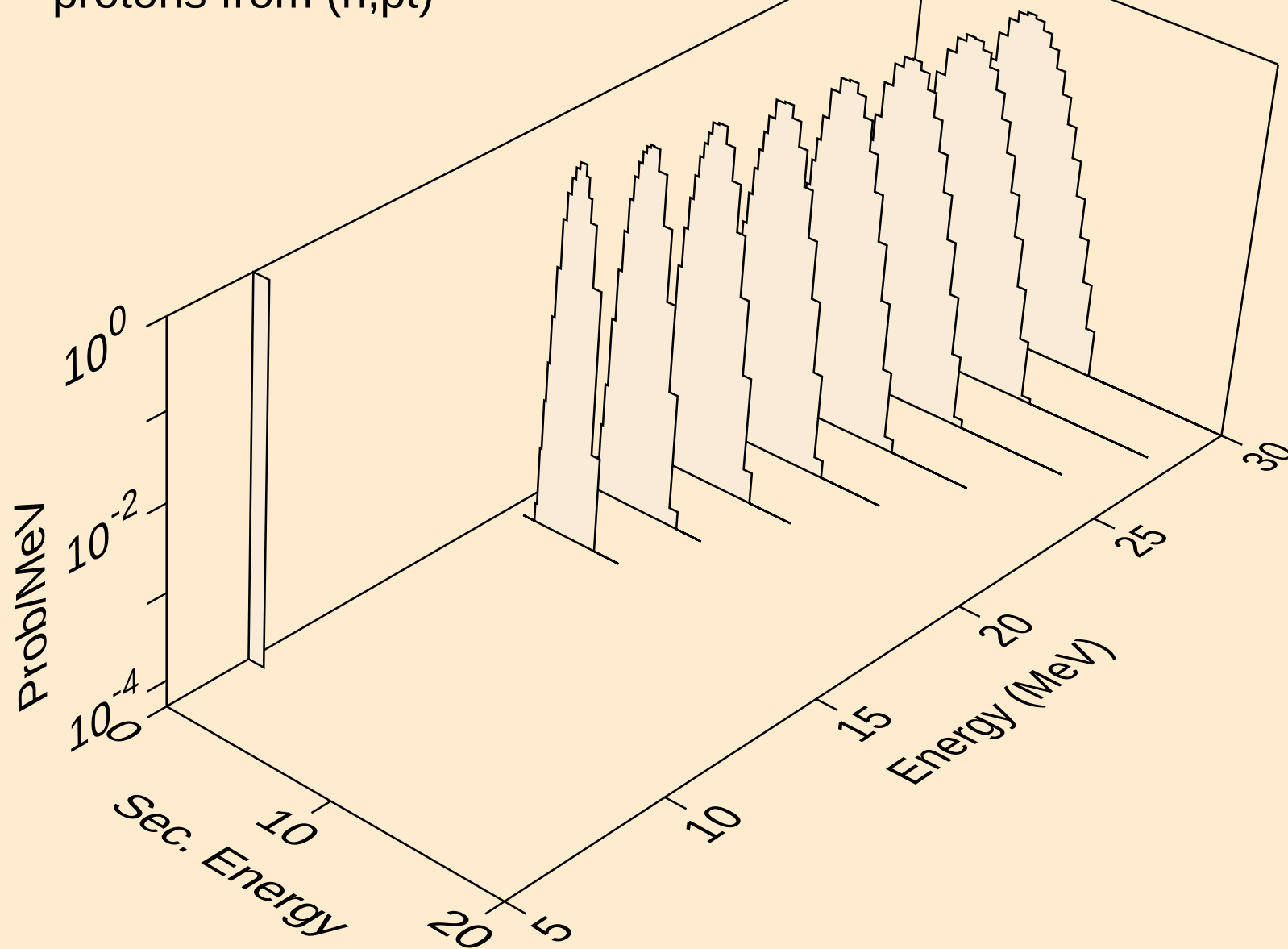
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,p)



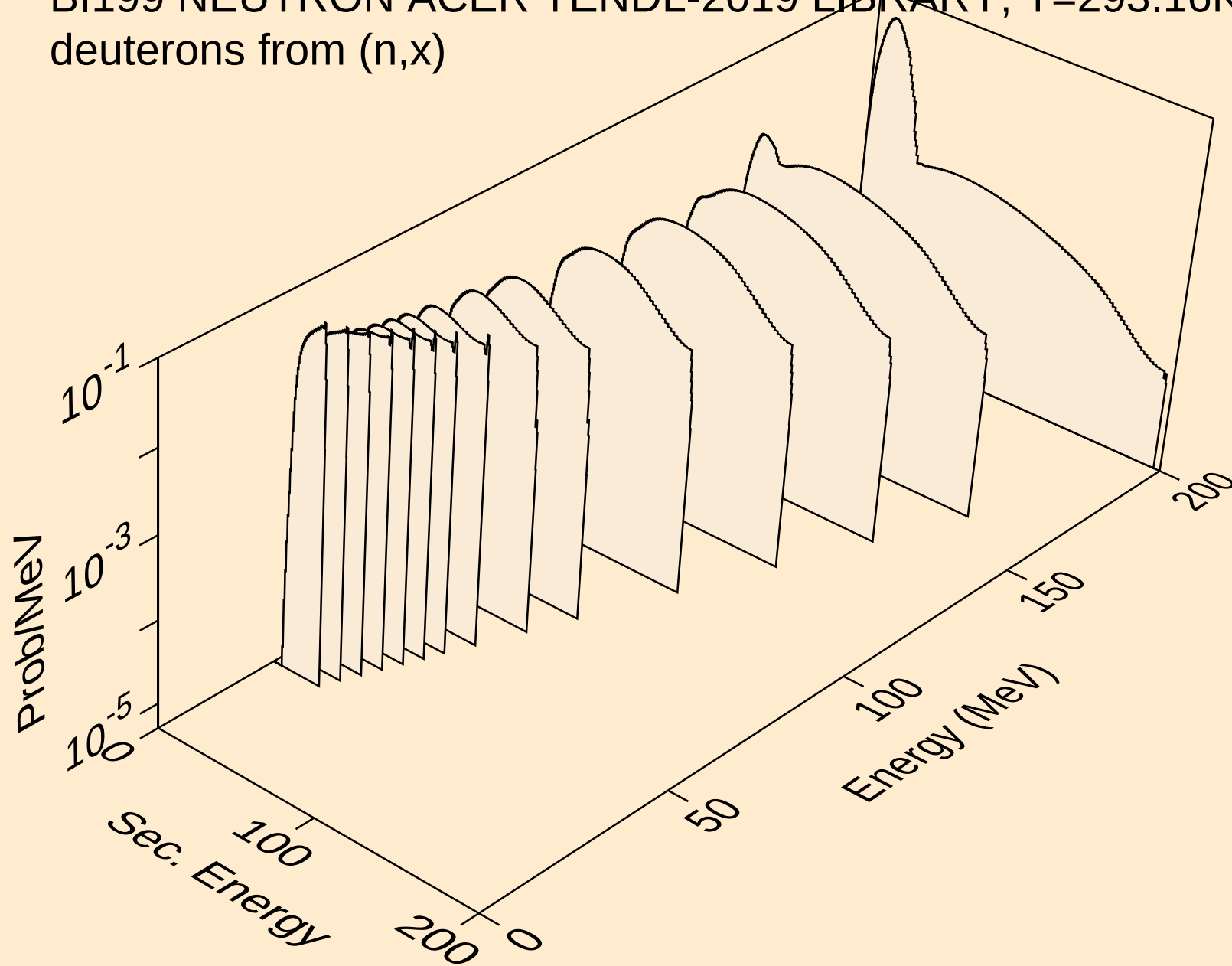
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,pd)



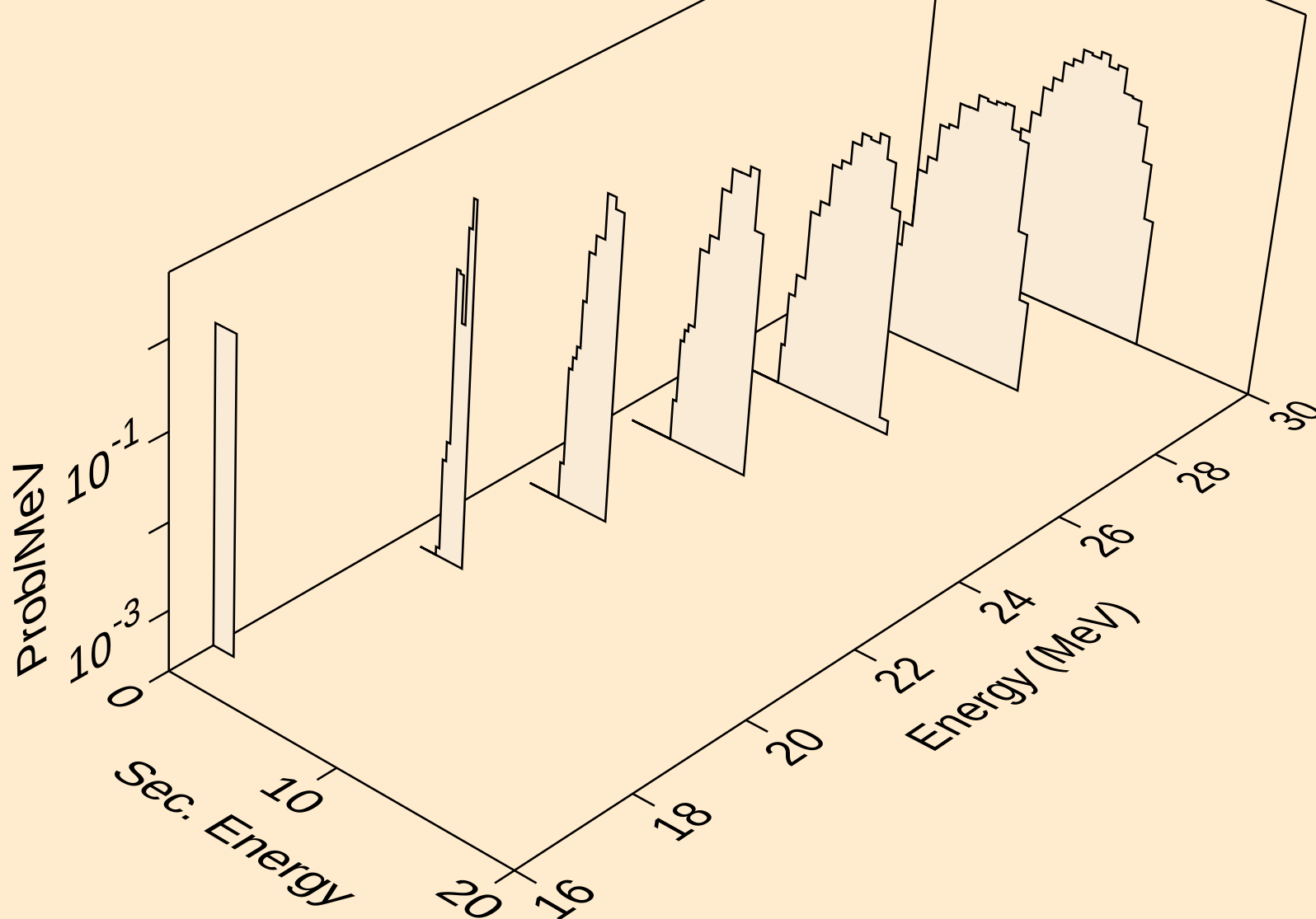
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,pt)



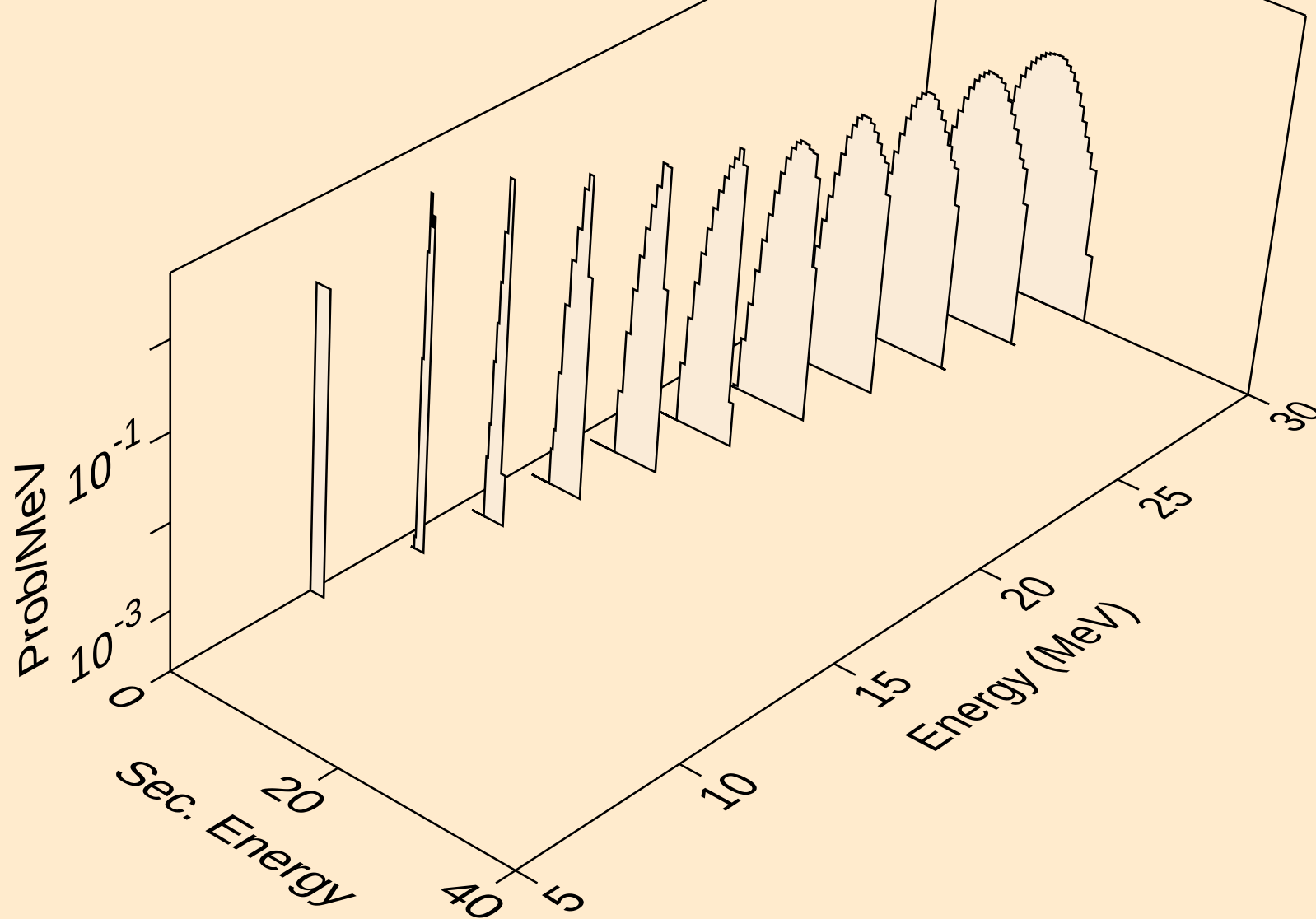
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
deuterons from (n,x)



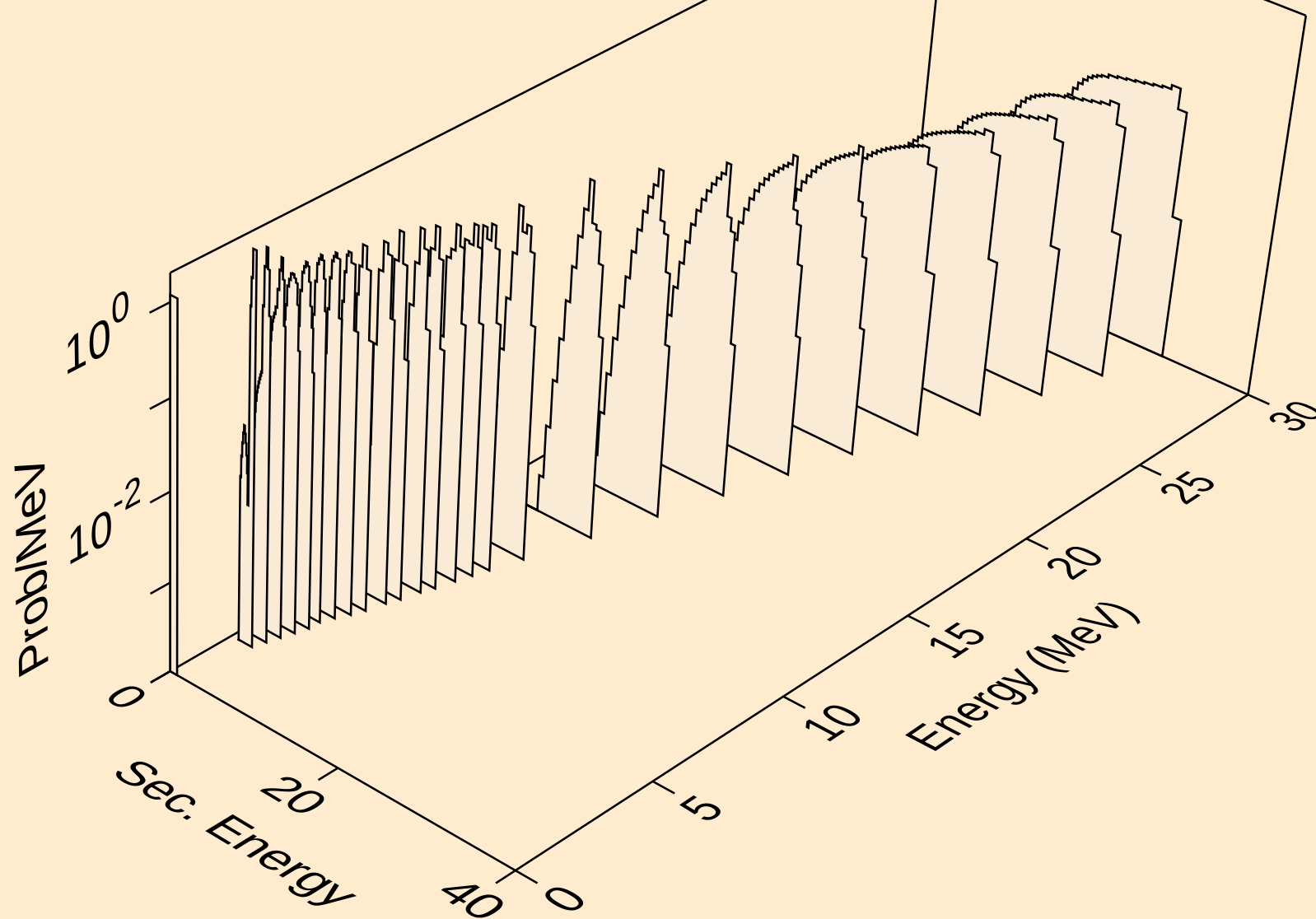
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
deuterons from (n,2nd)



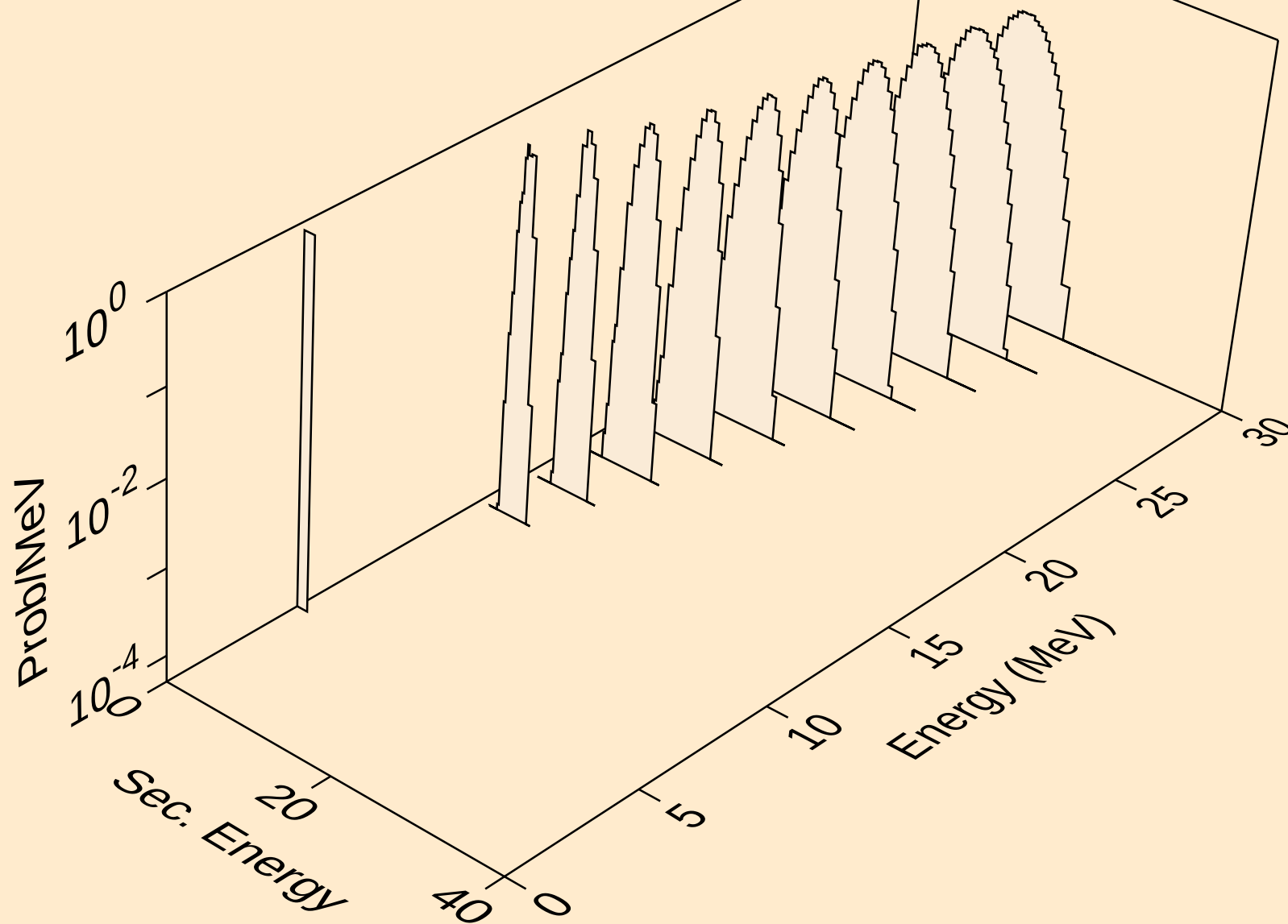
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
deuterons from (n,n*)d



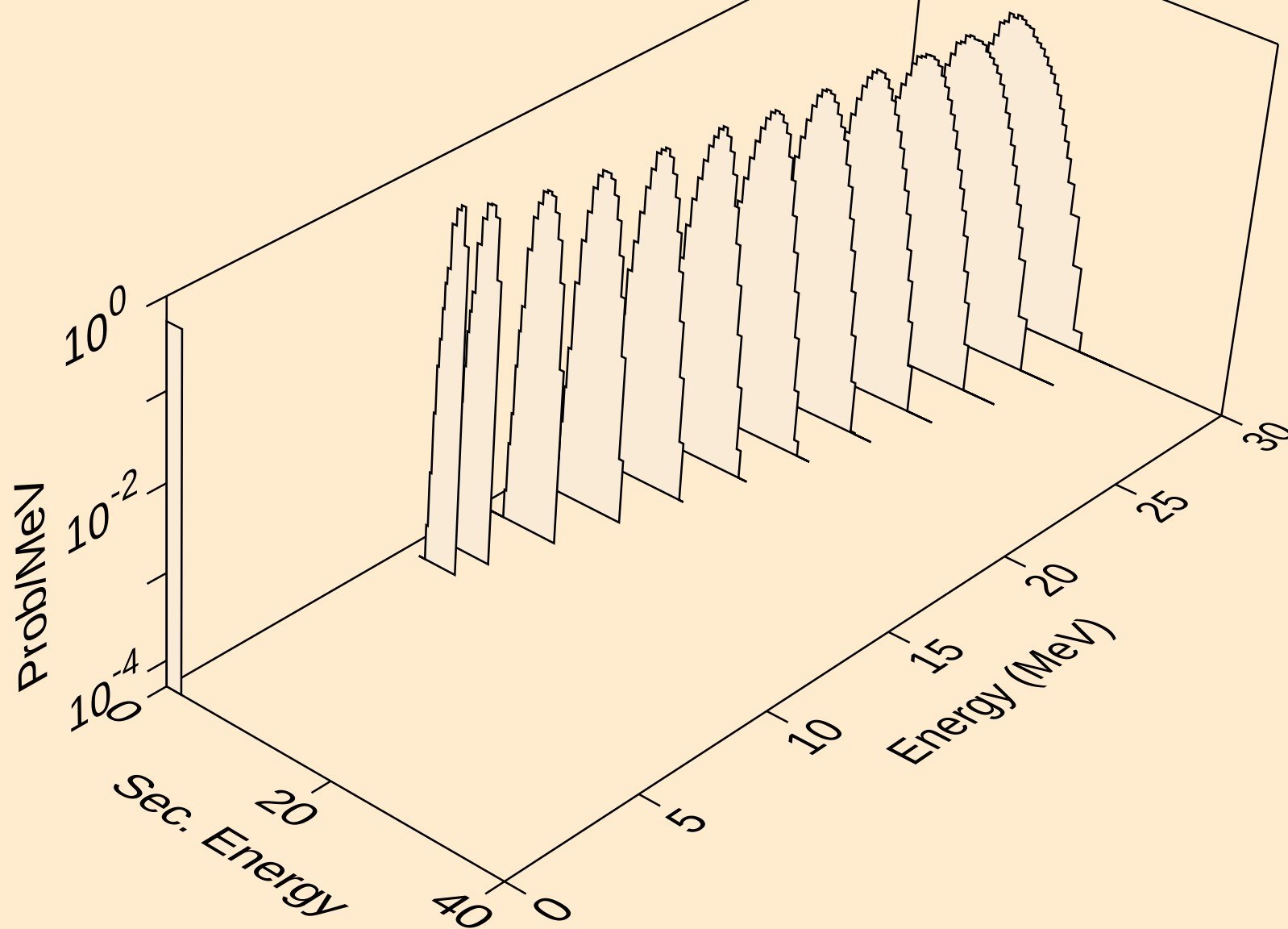
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
deuterons from (n,d)



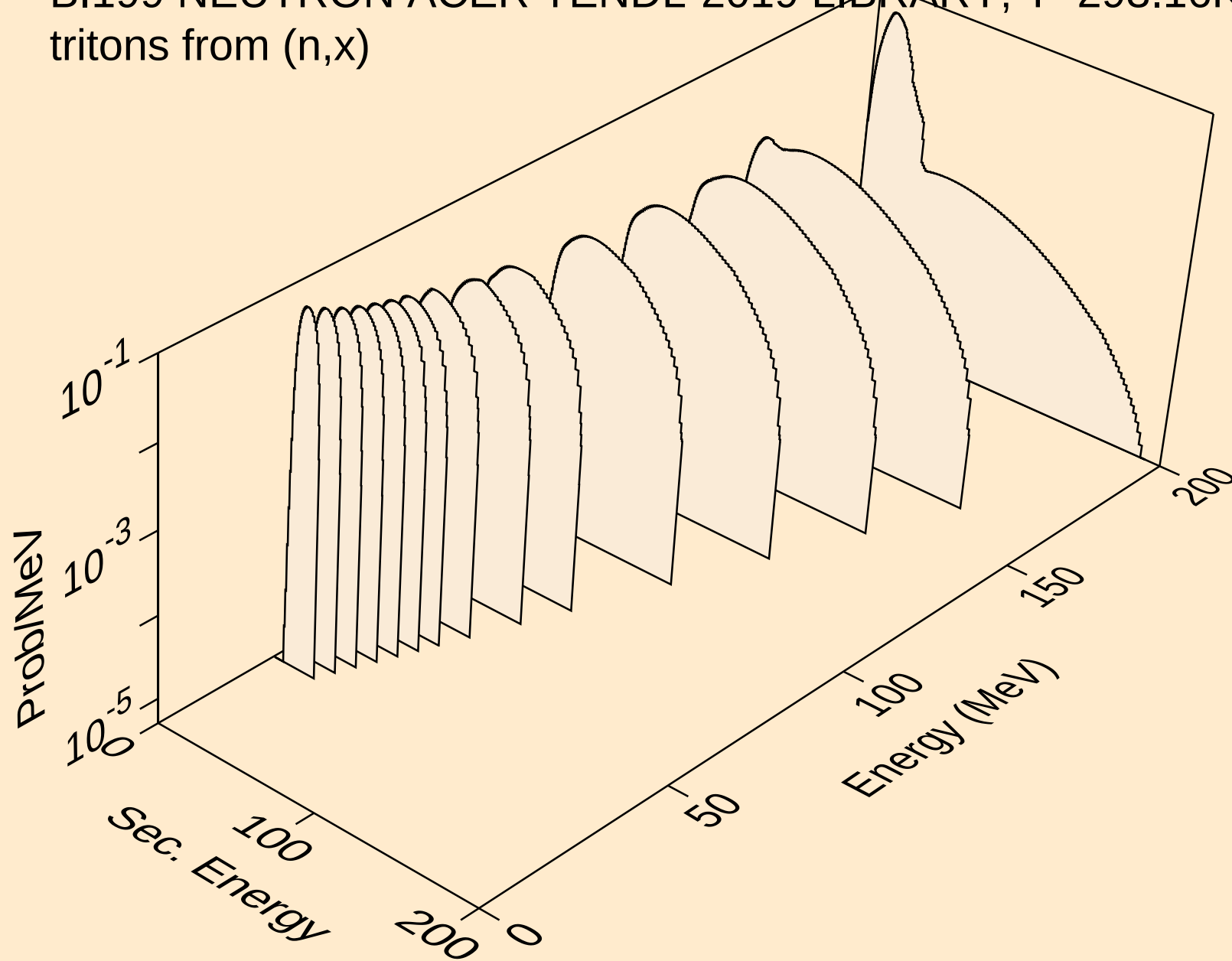
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
deuterons from (n,pd)



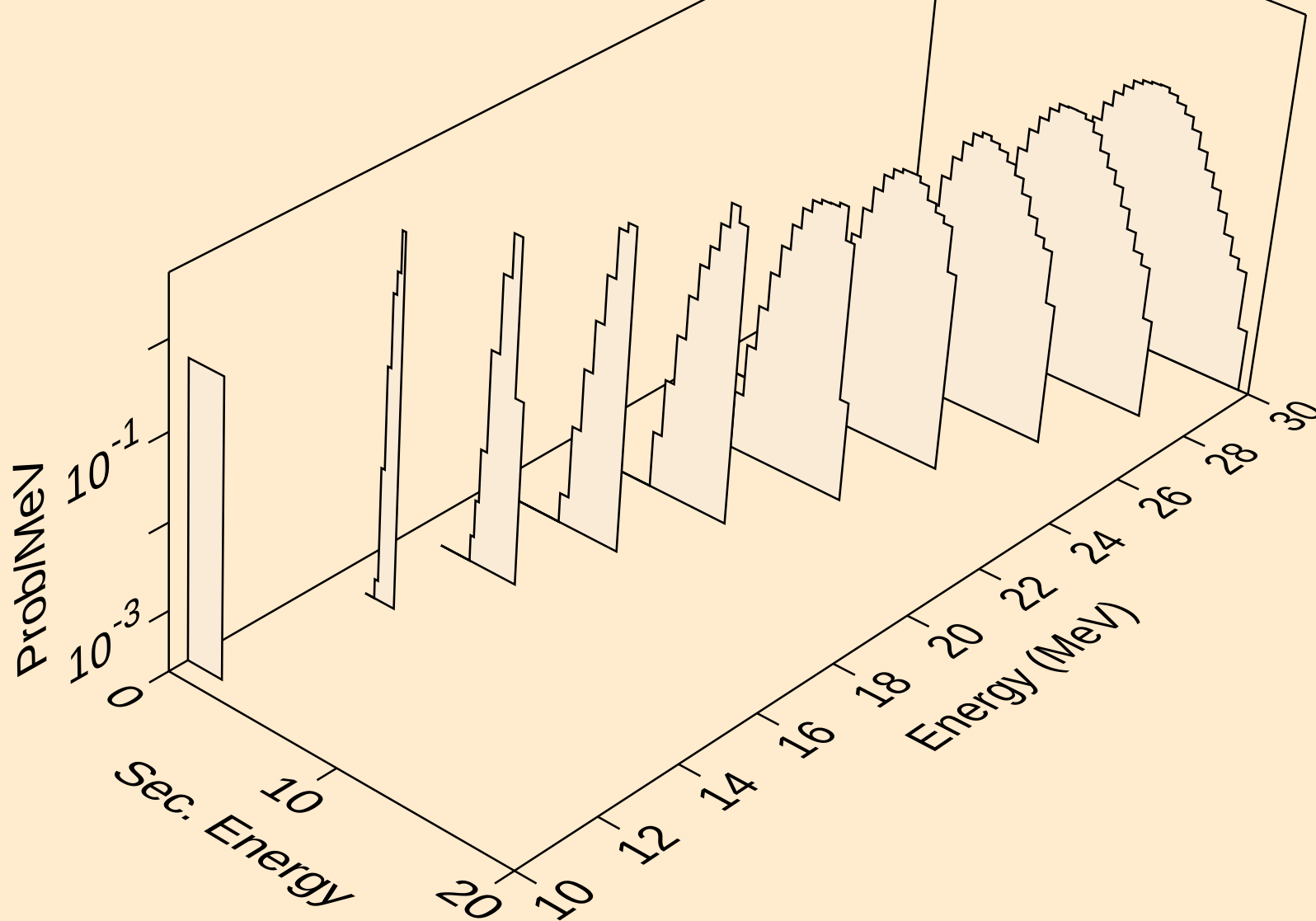
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
deuterons from (n,da)



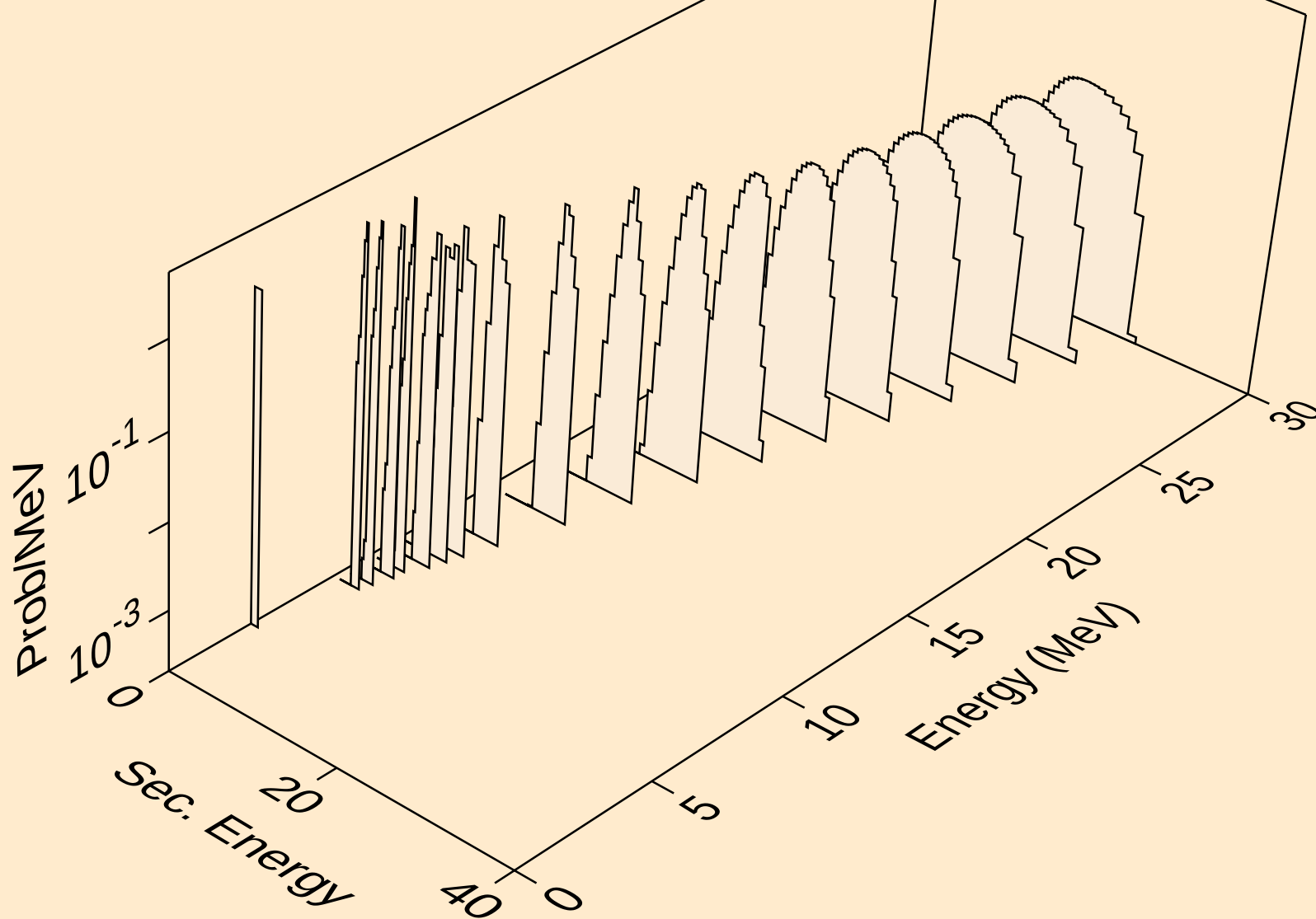
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
tritons from (n,x)



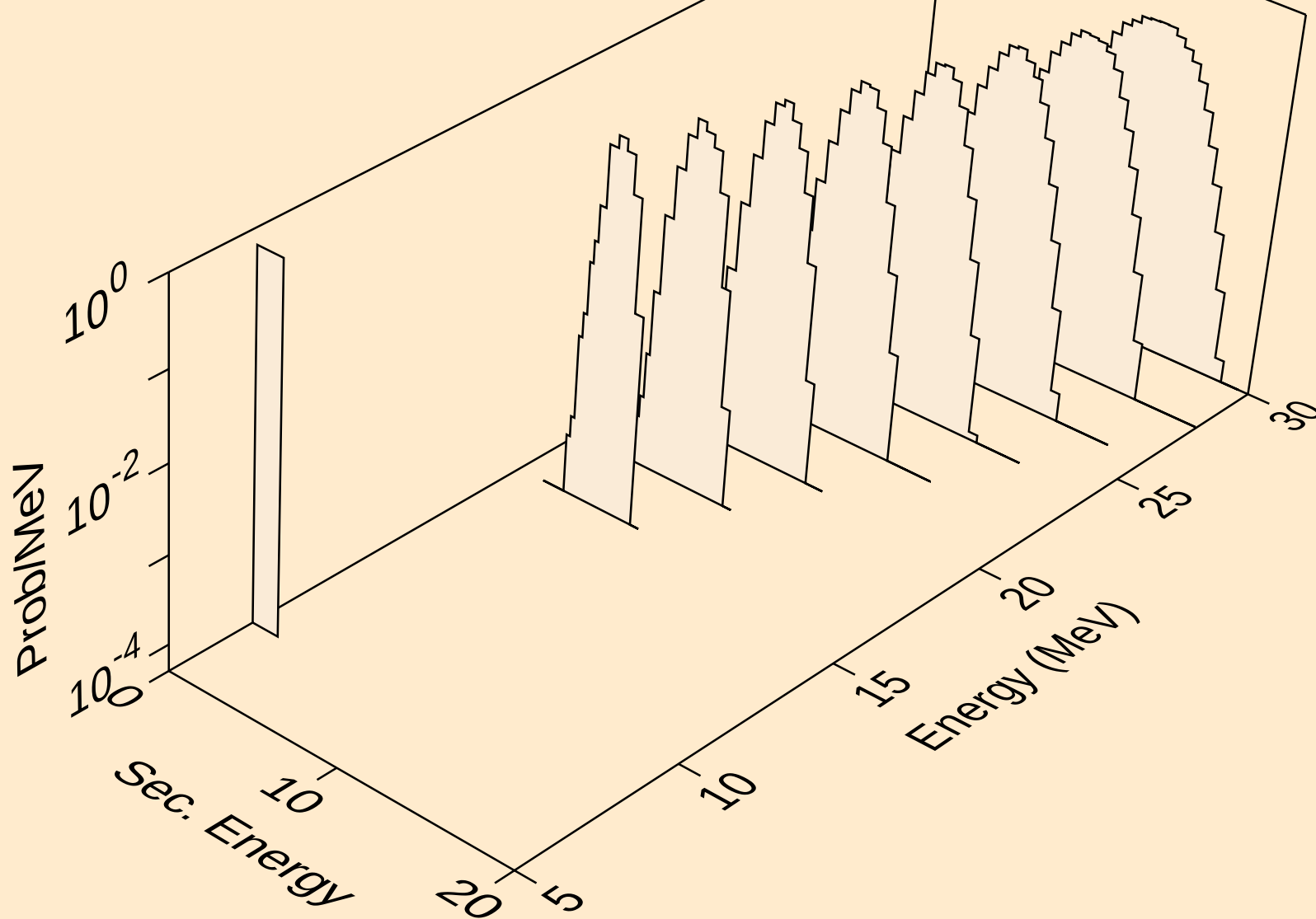
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
tritons from (n,n*)t



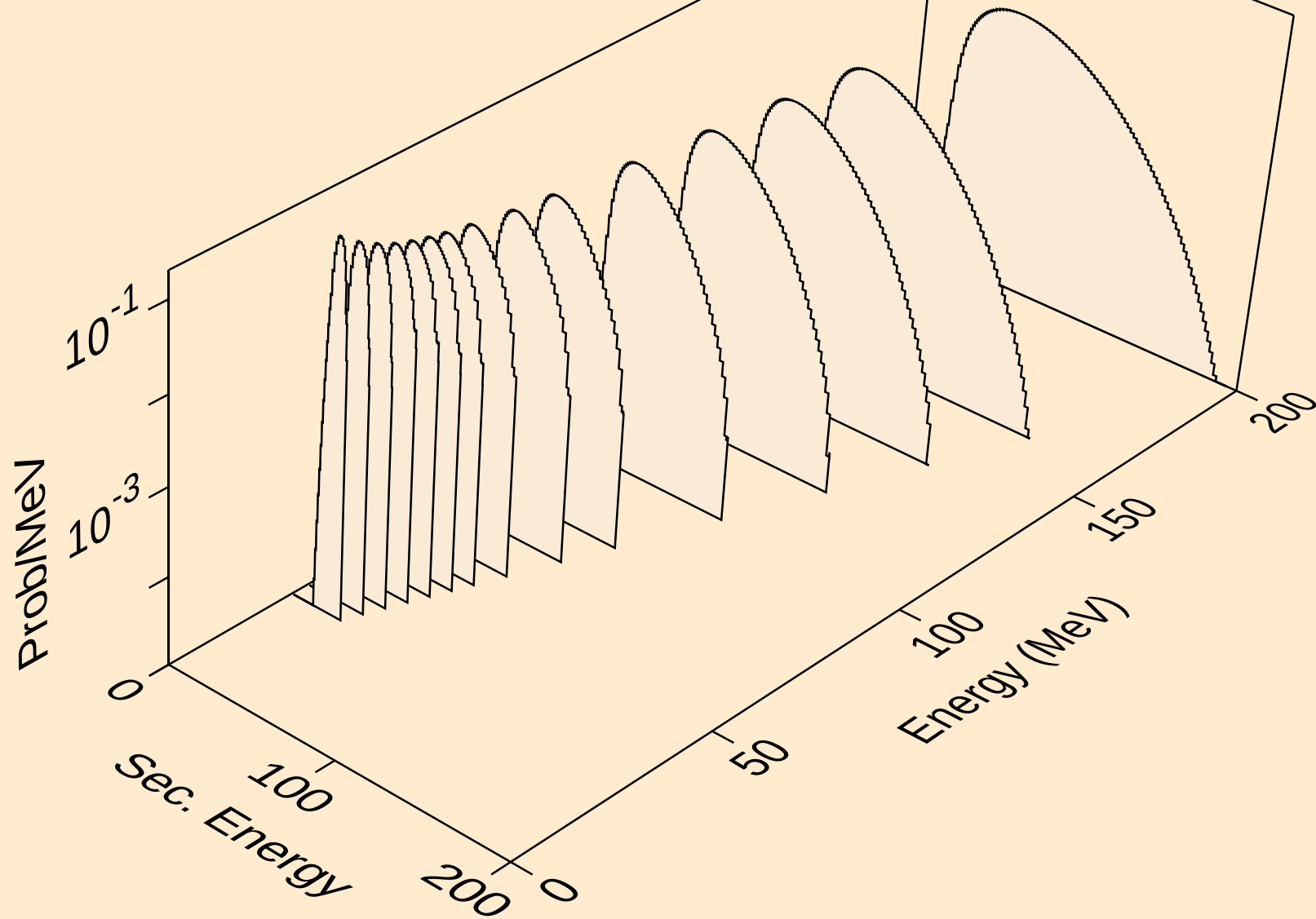
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
tritons from (n,t)



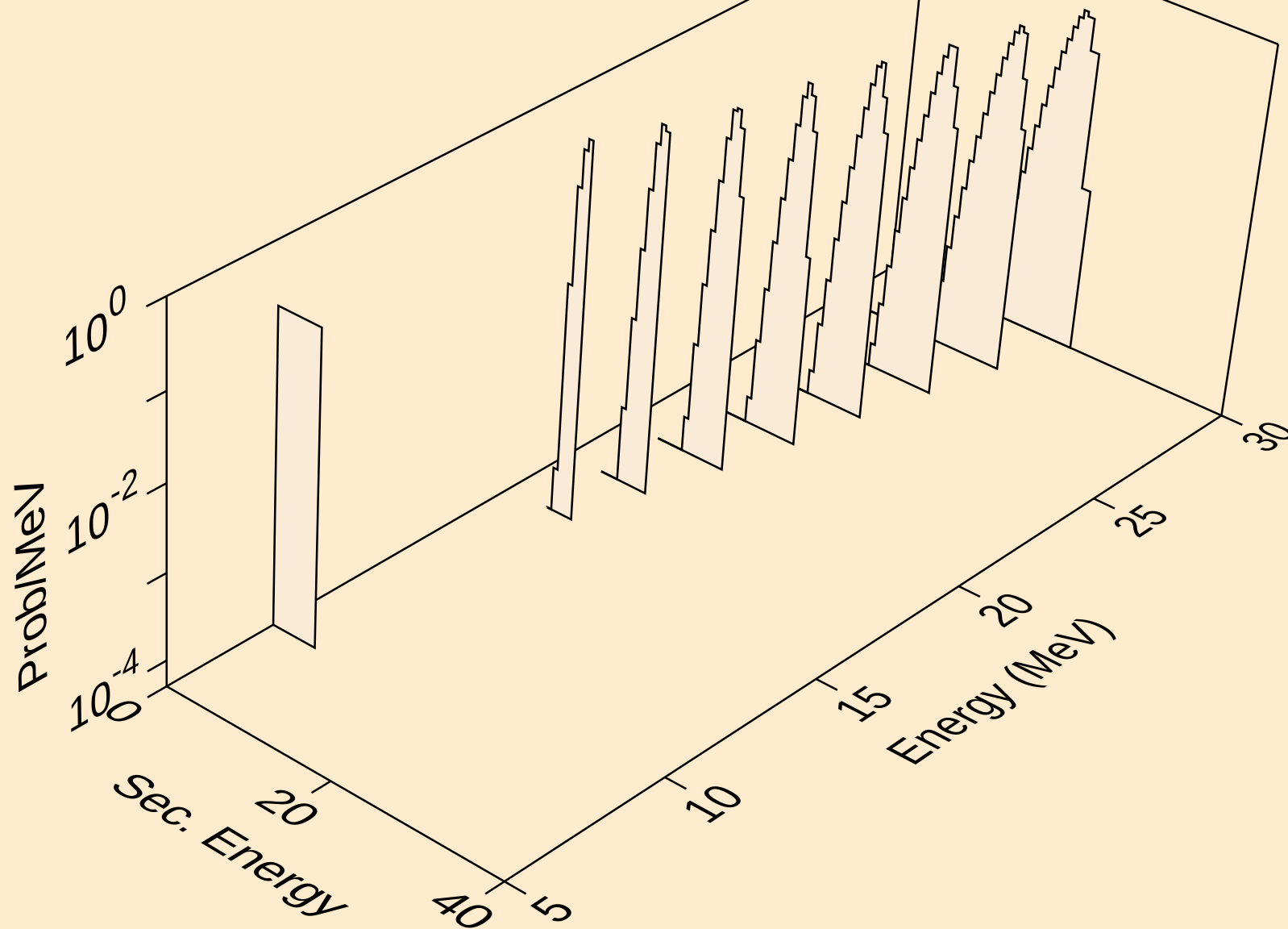
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
tritons from (n,pt)



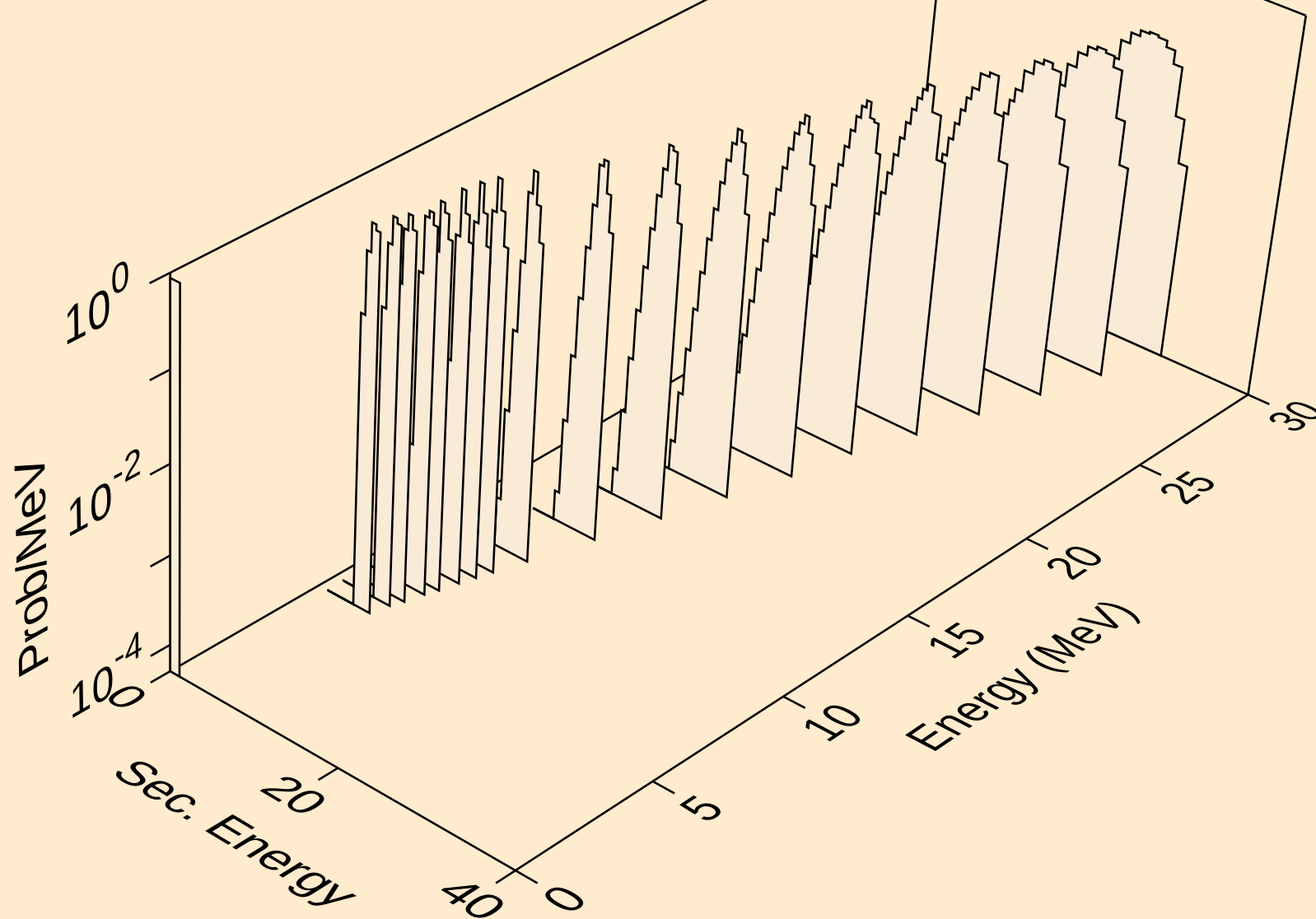
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
he3s from (n,x)



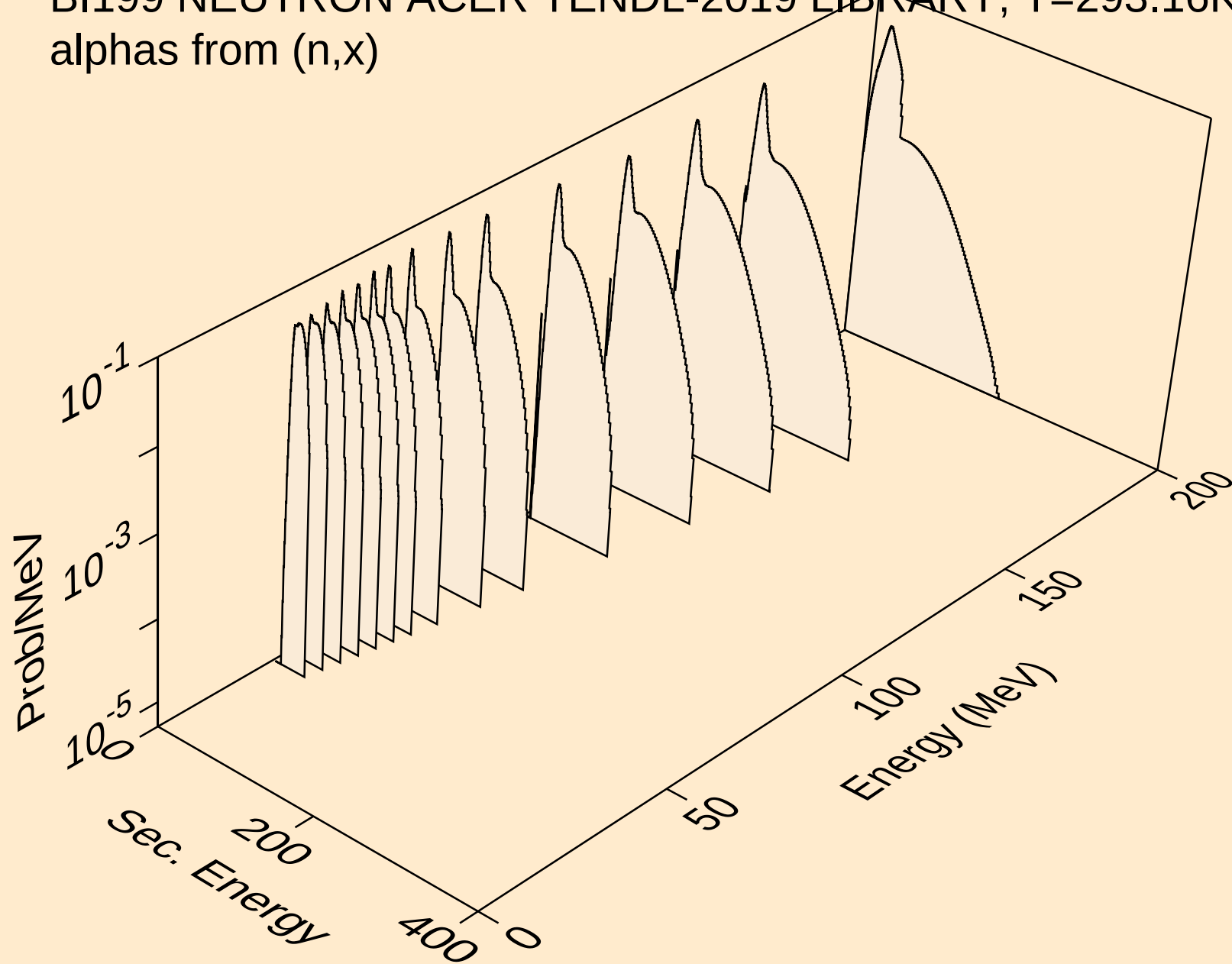
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
he3s from (n,n*)he3



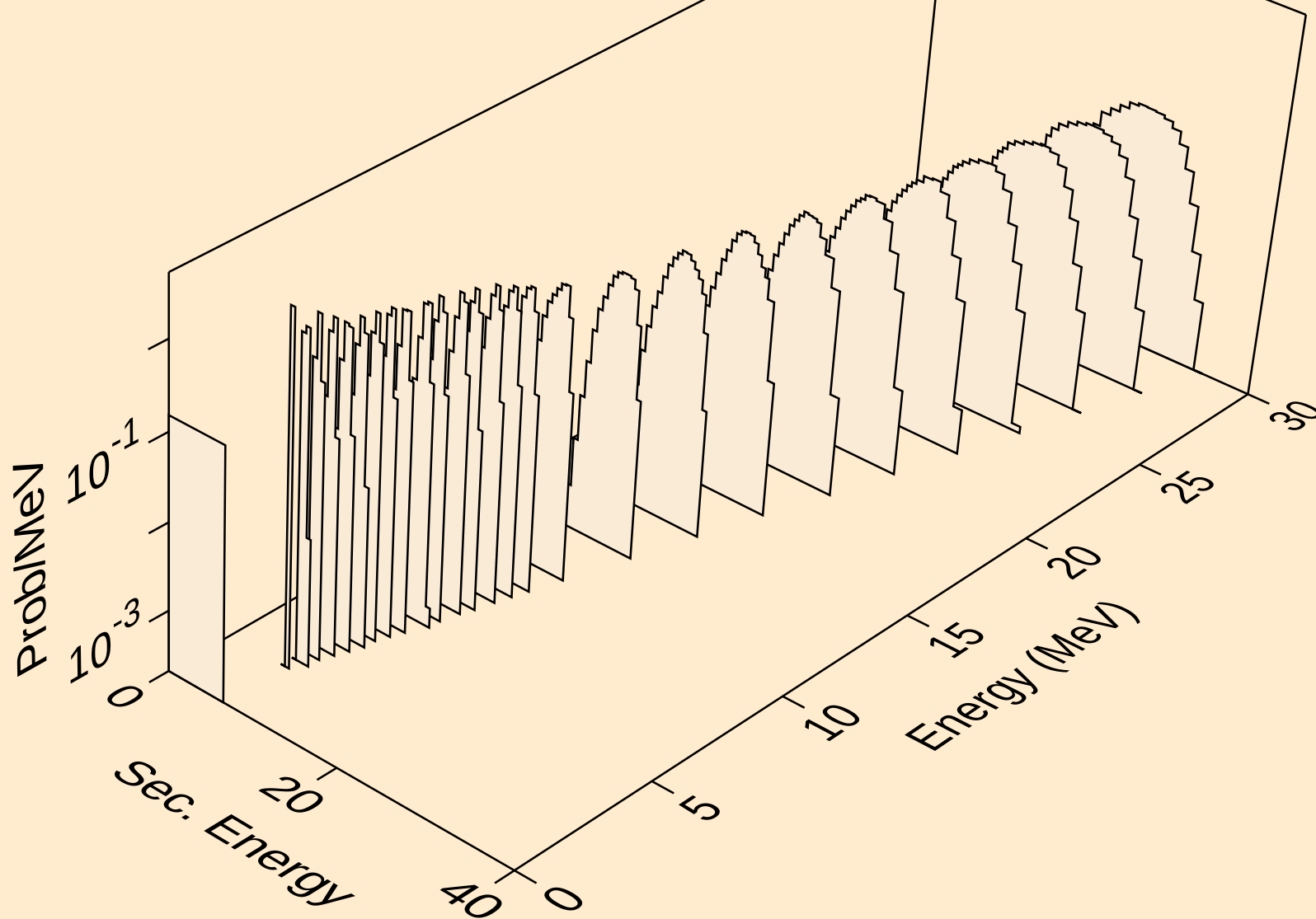
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
he3s from (n,he3)



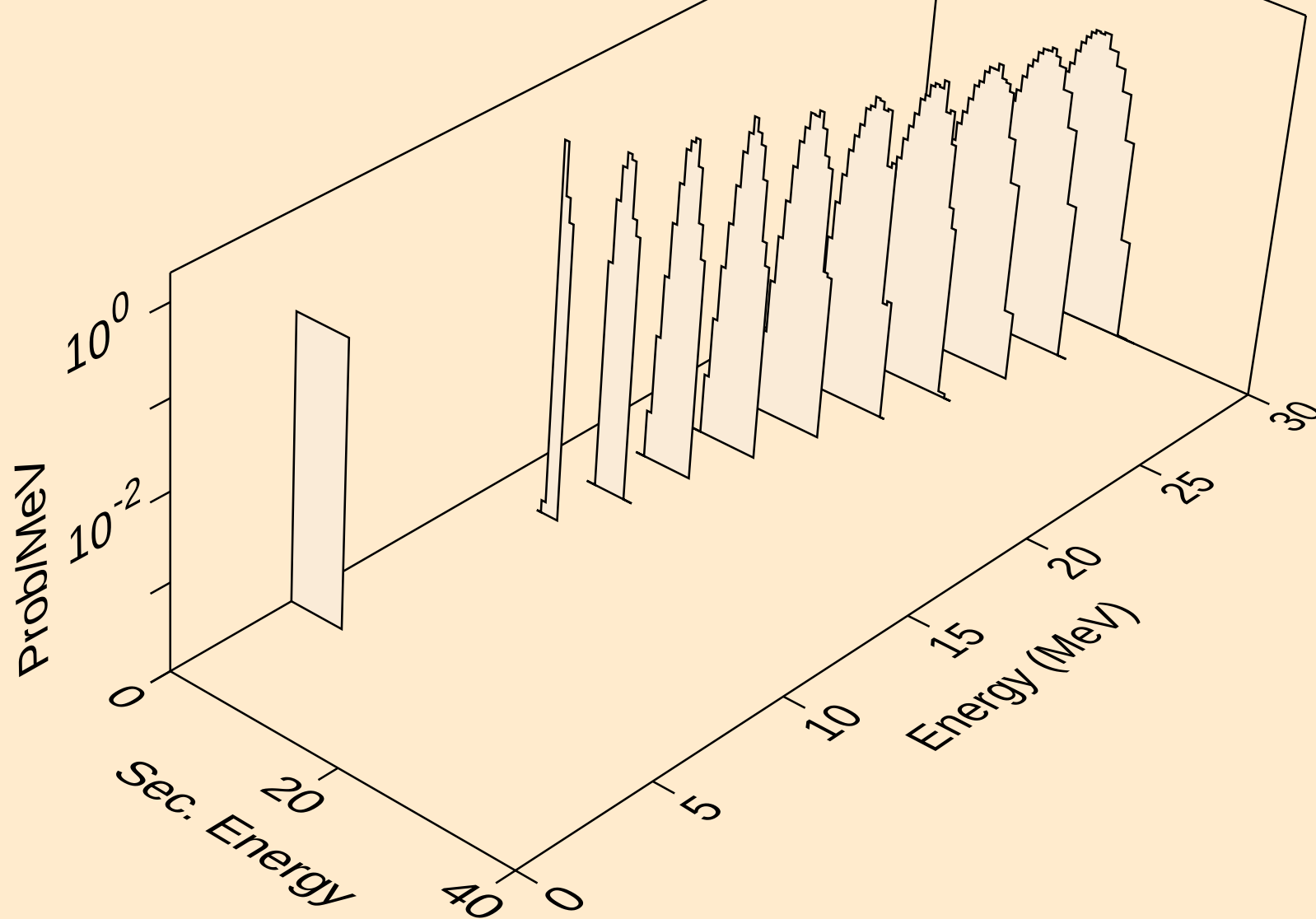
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,x)



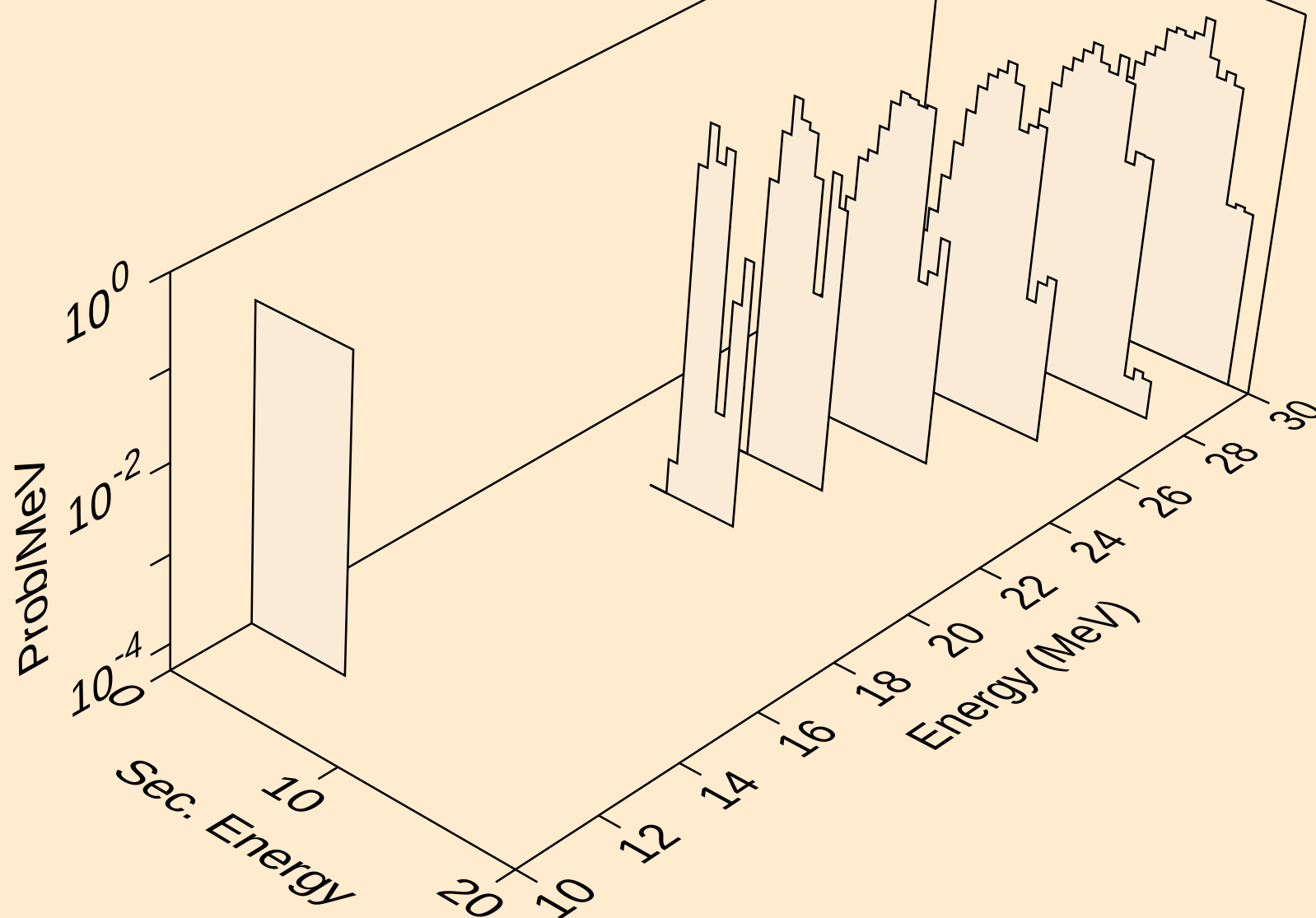
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,n*)a



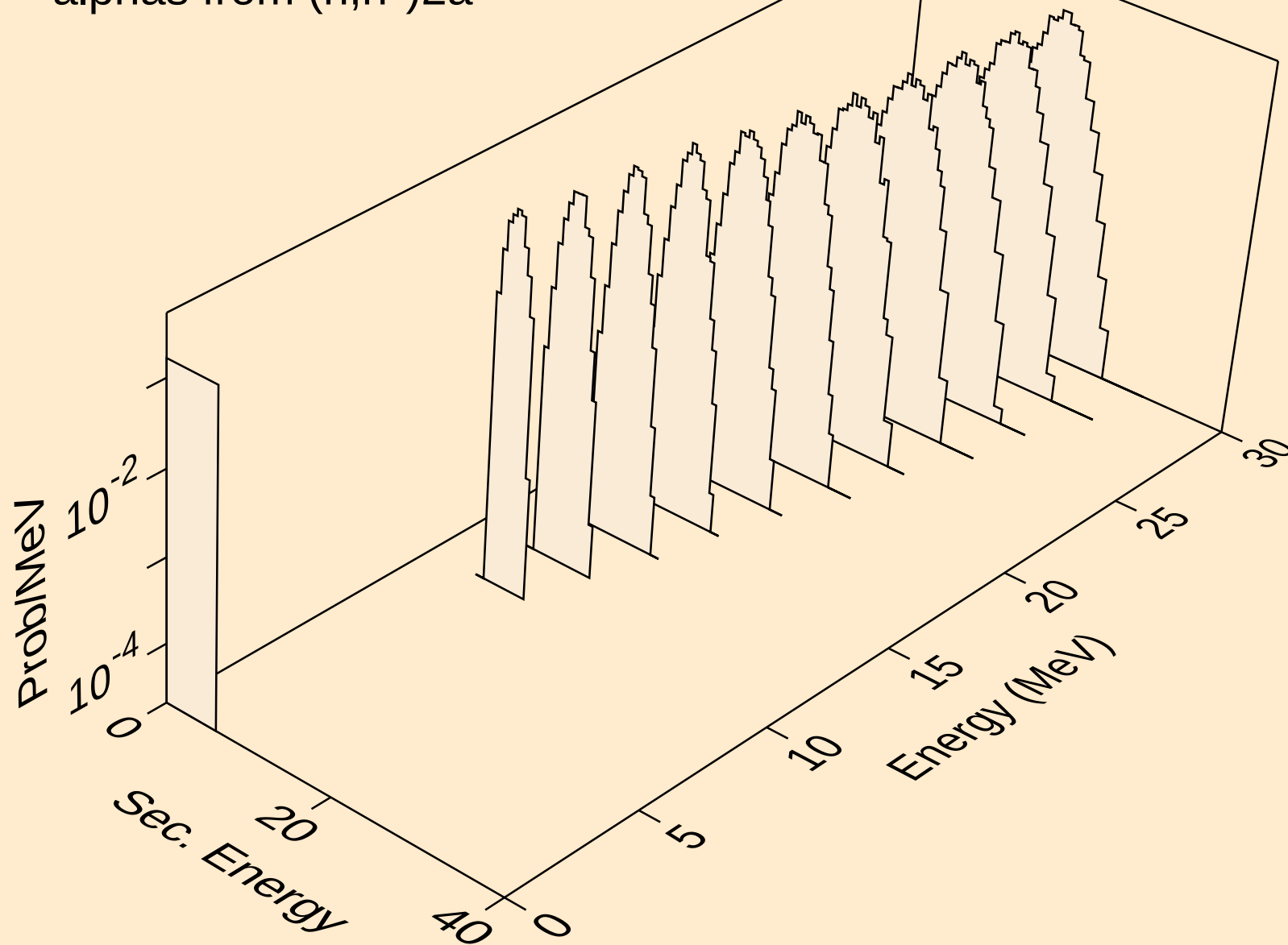
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,2n)a



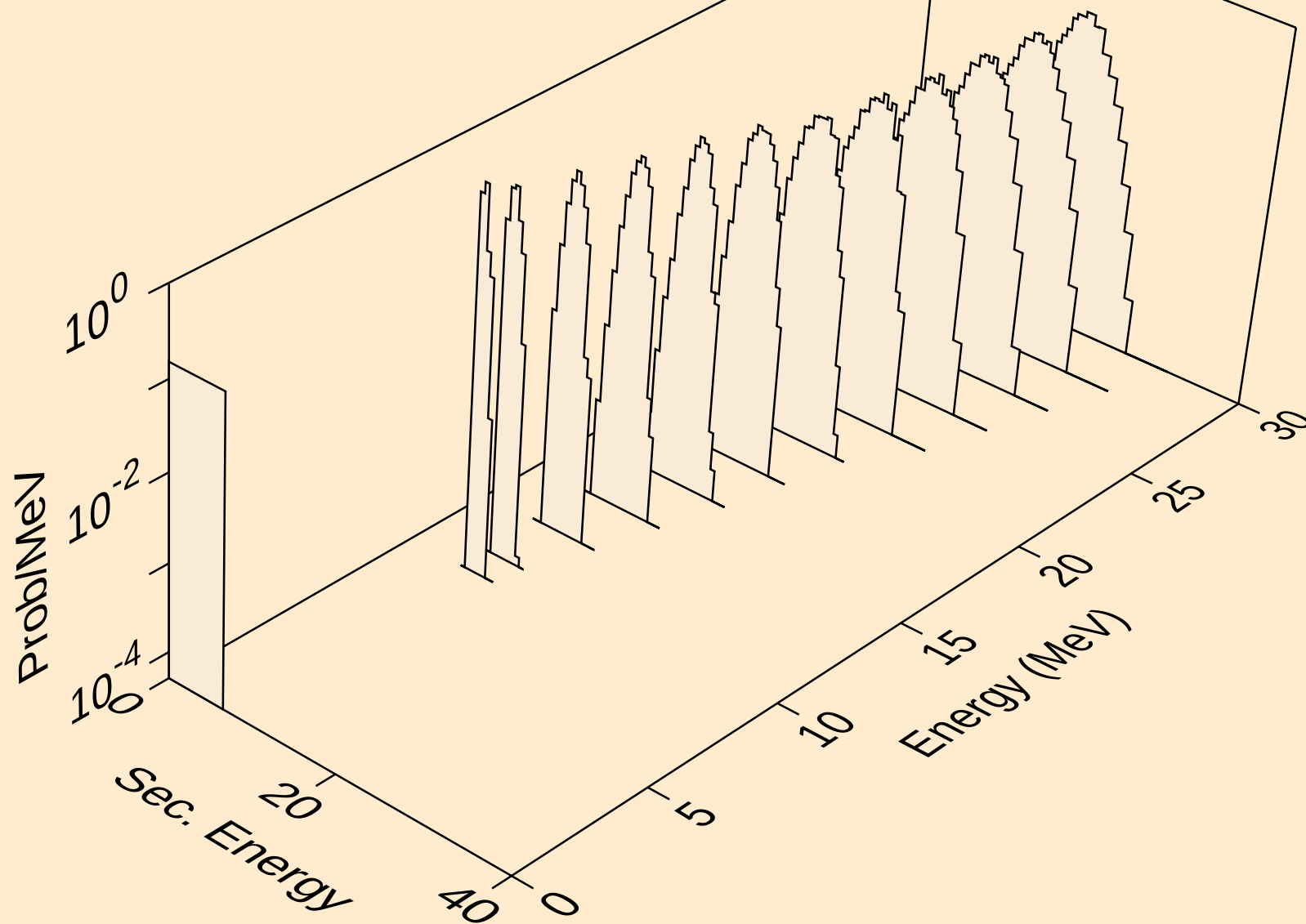
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,3n)a



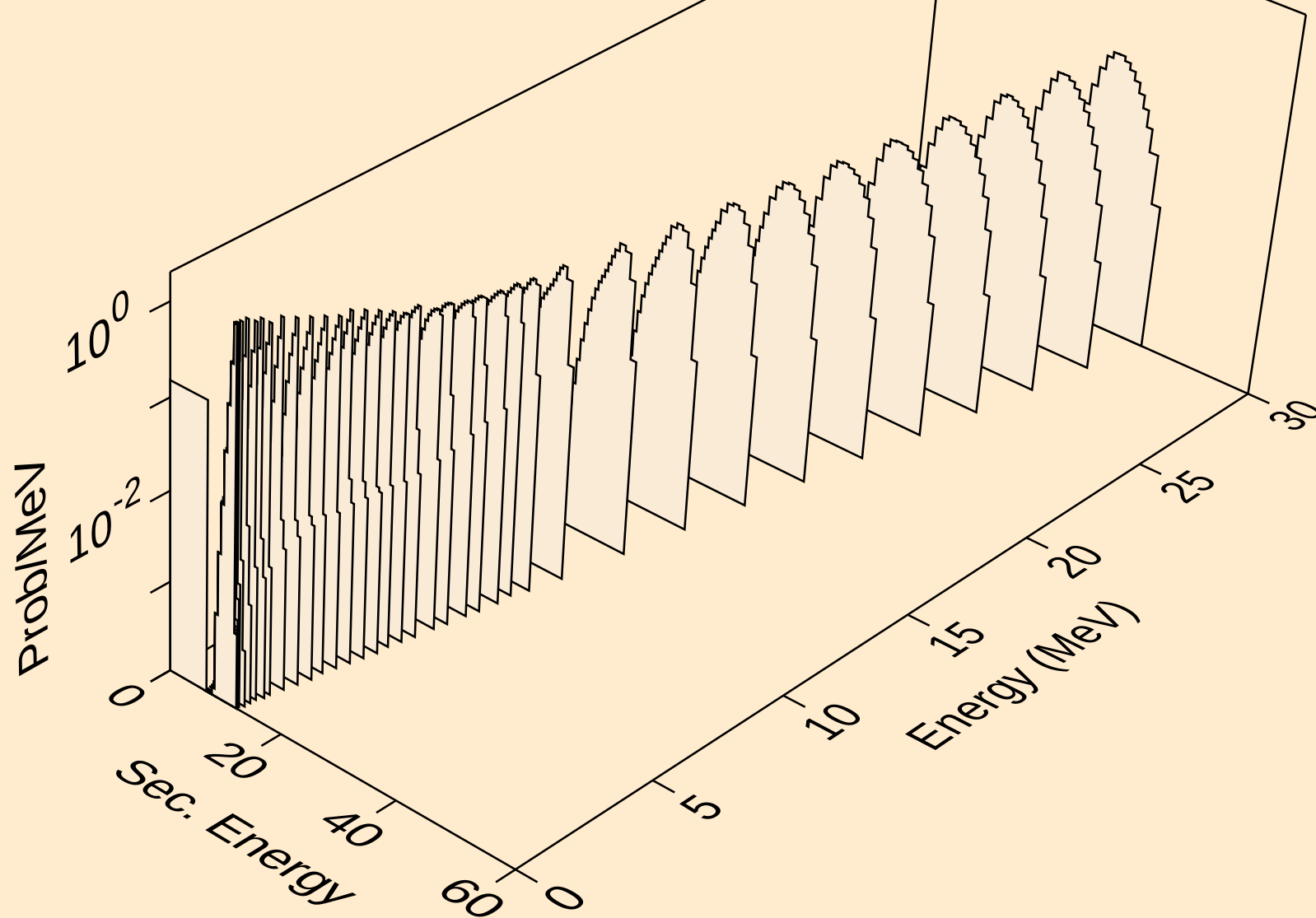
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,n*)2a



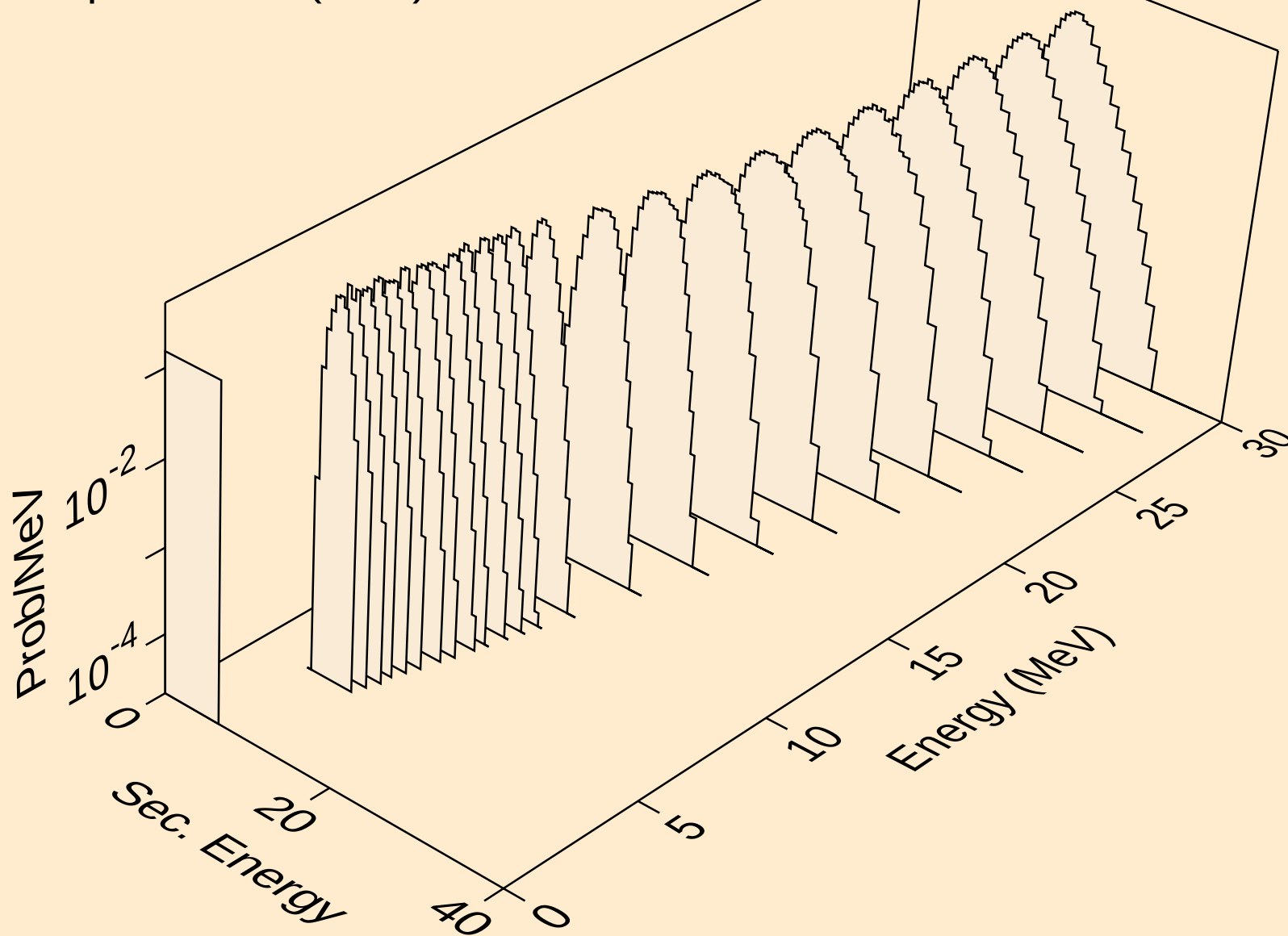
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,npa)



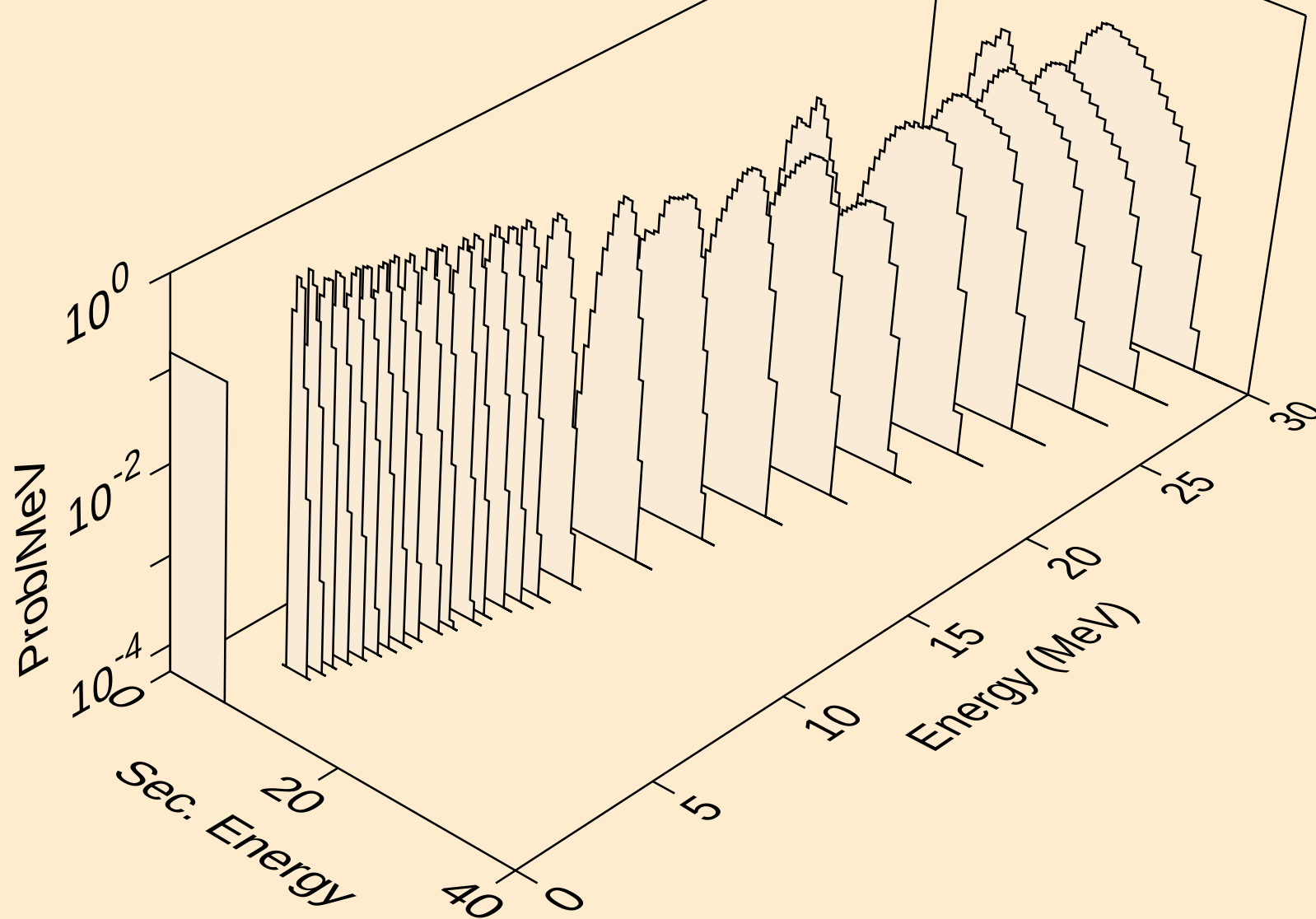
BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,a)



BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,2a)



BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,p)



BI199 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,da)

