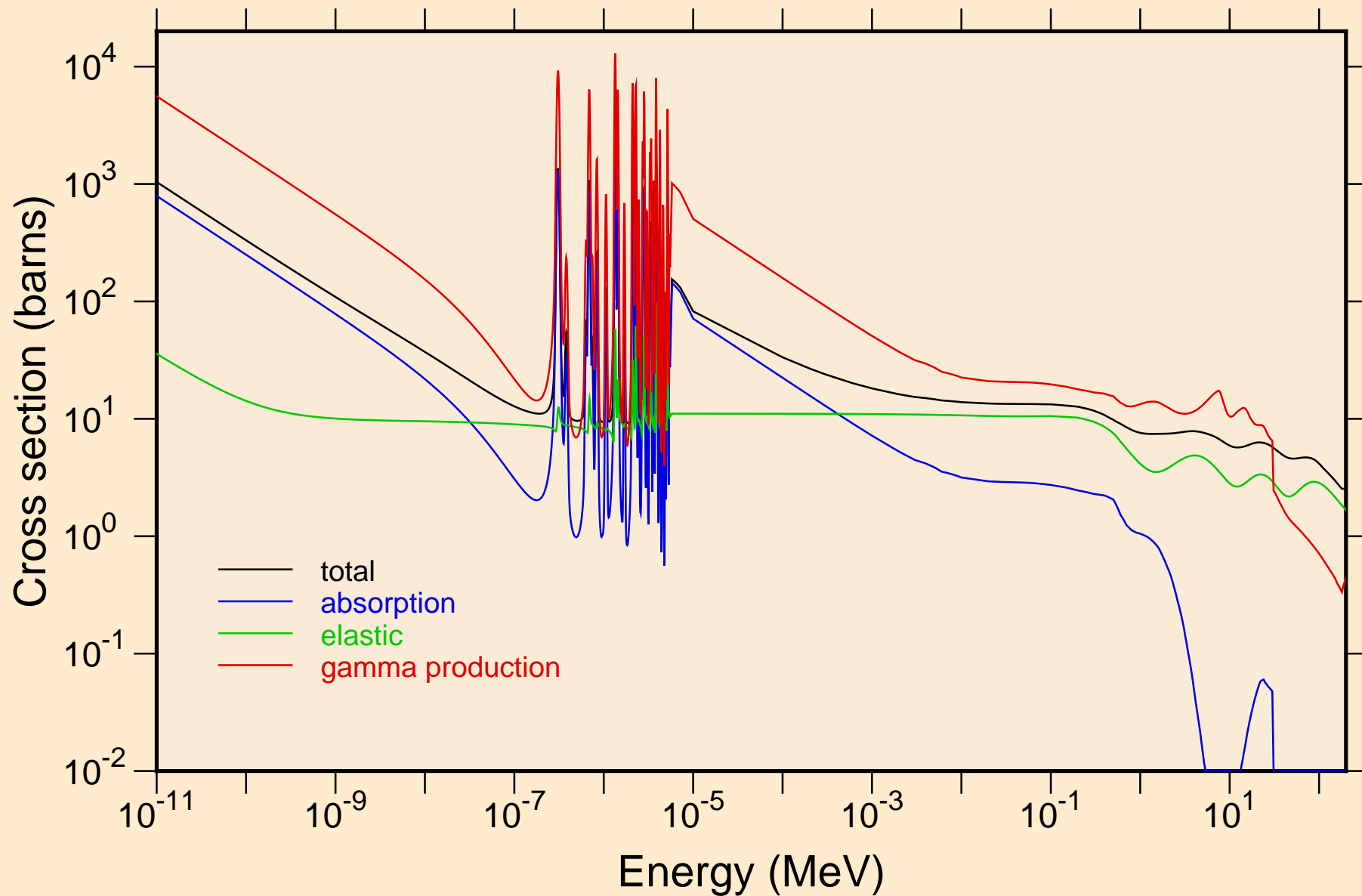
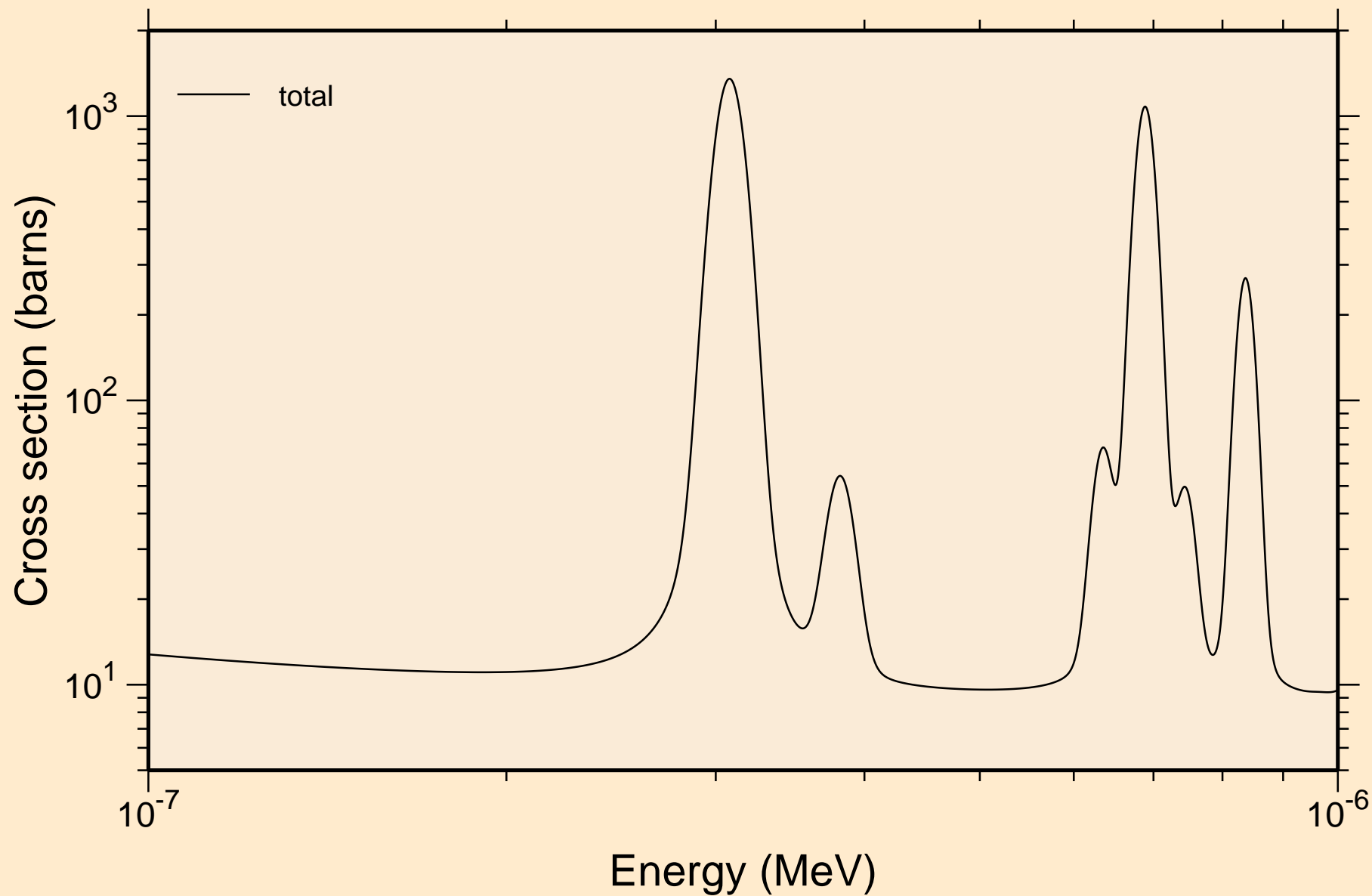


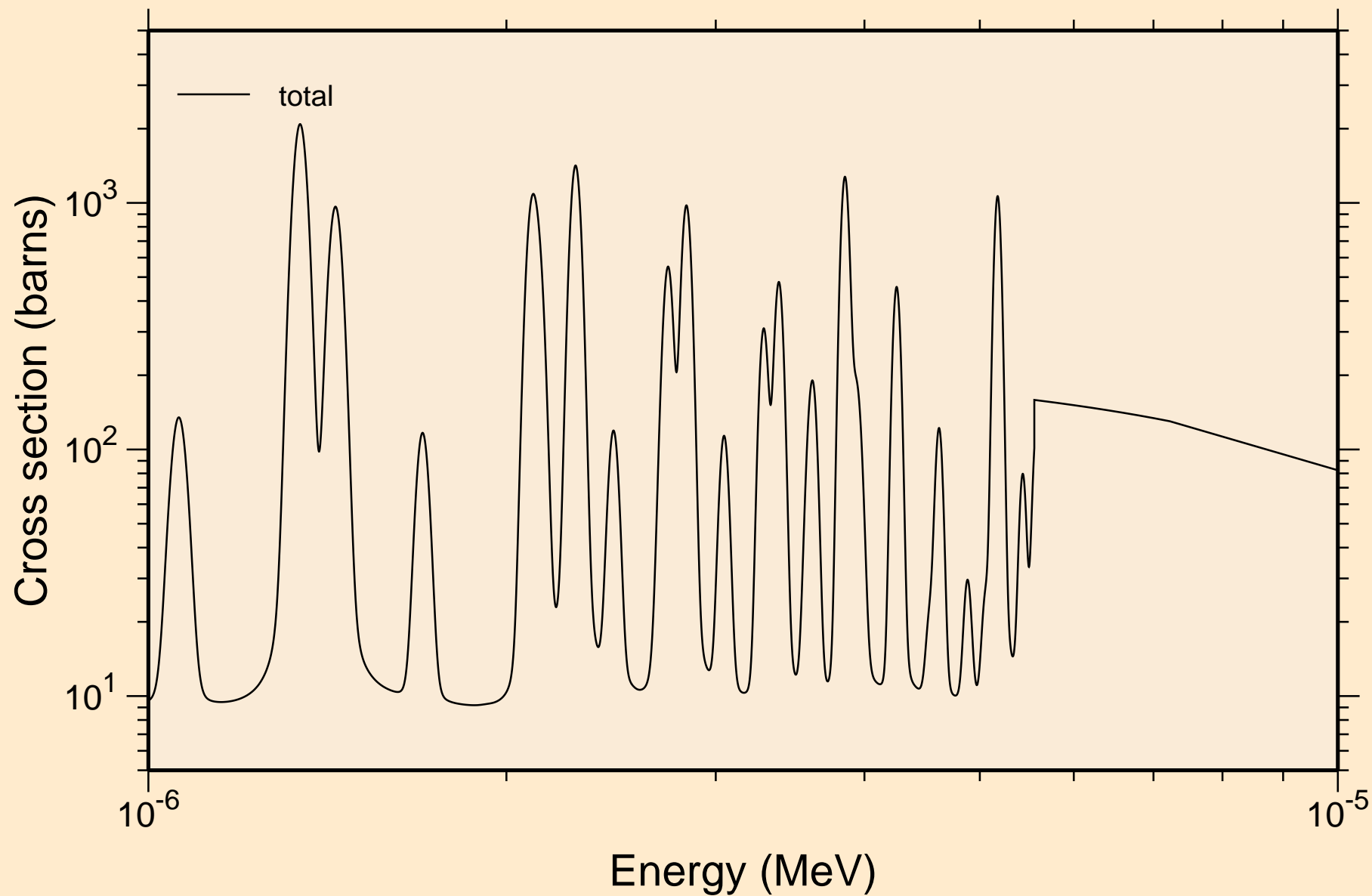
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Principal cross sections



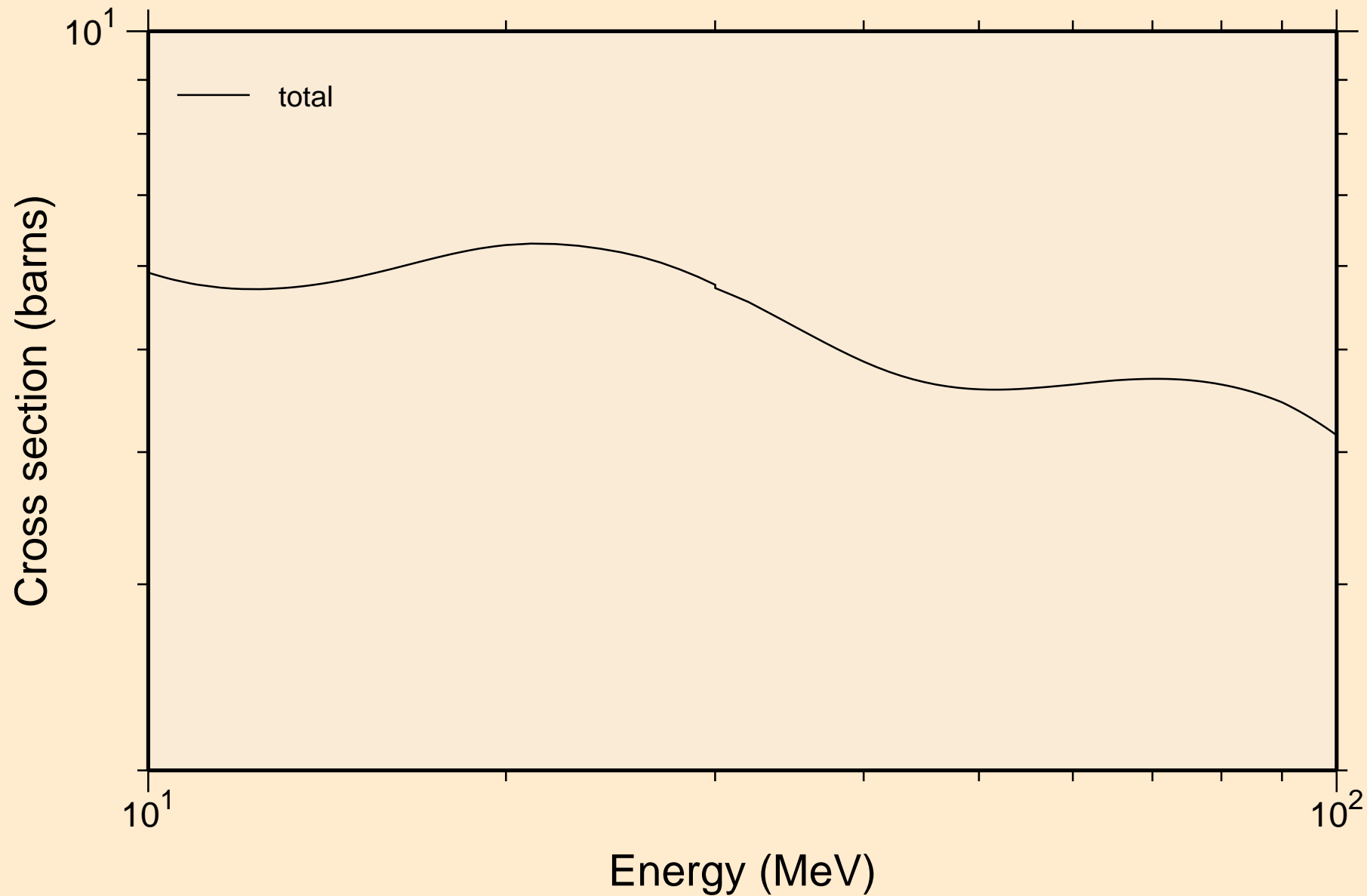
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resonance total cross section



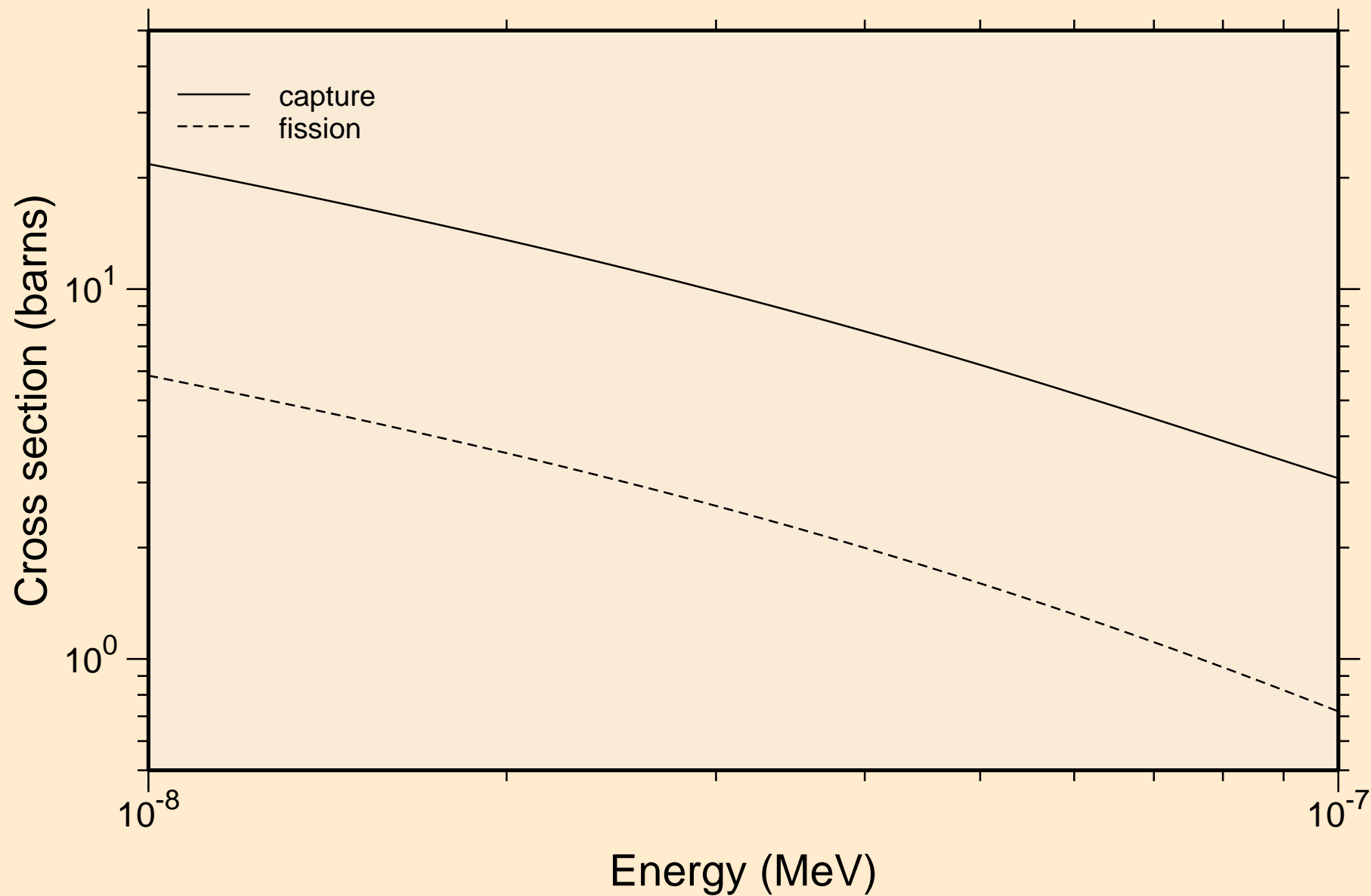
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



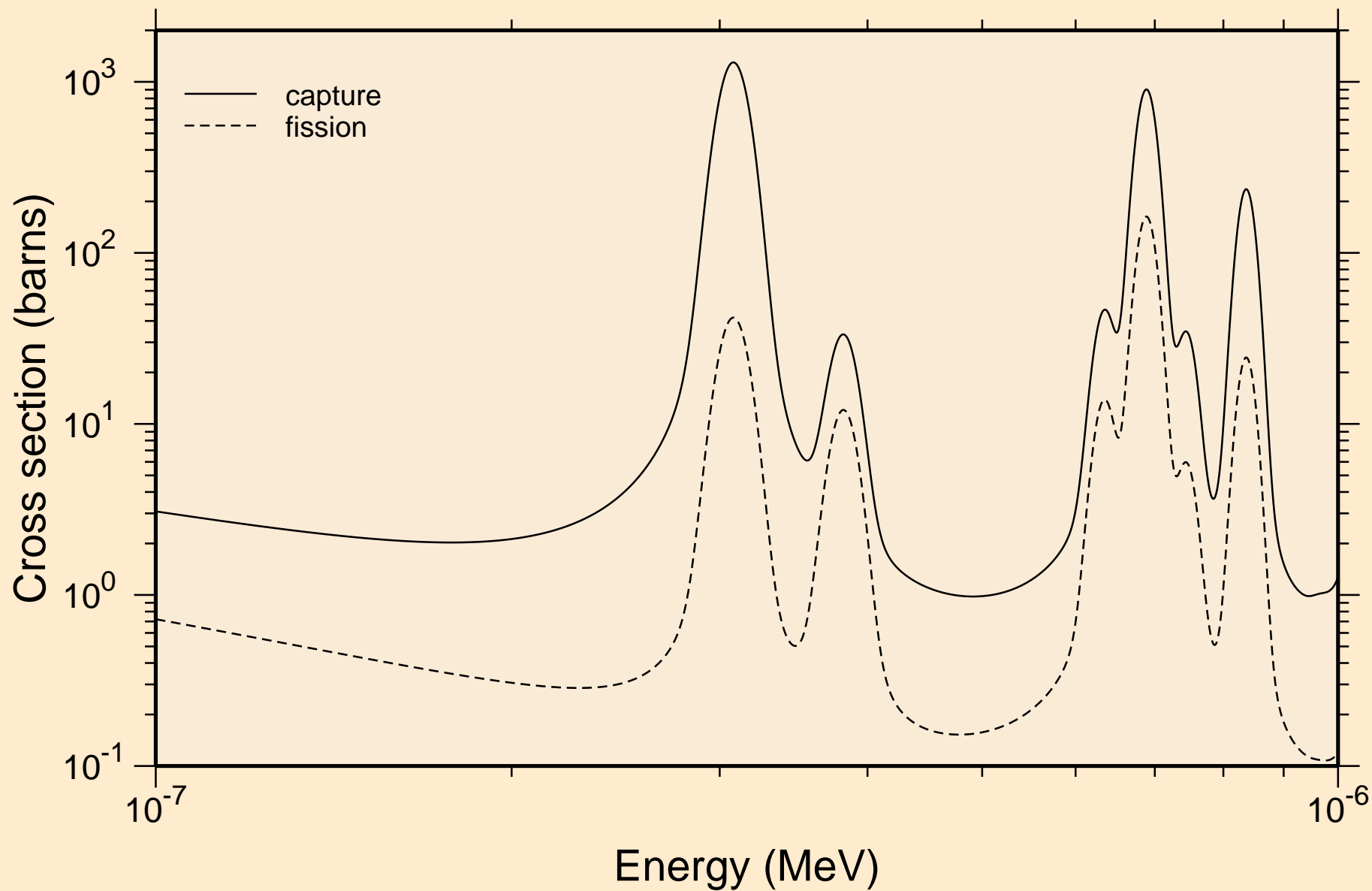
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resonance total cross section



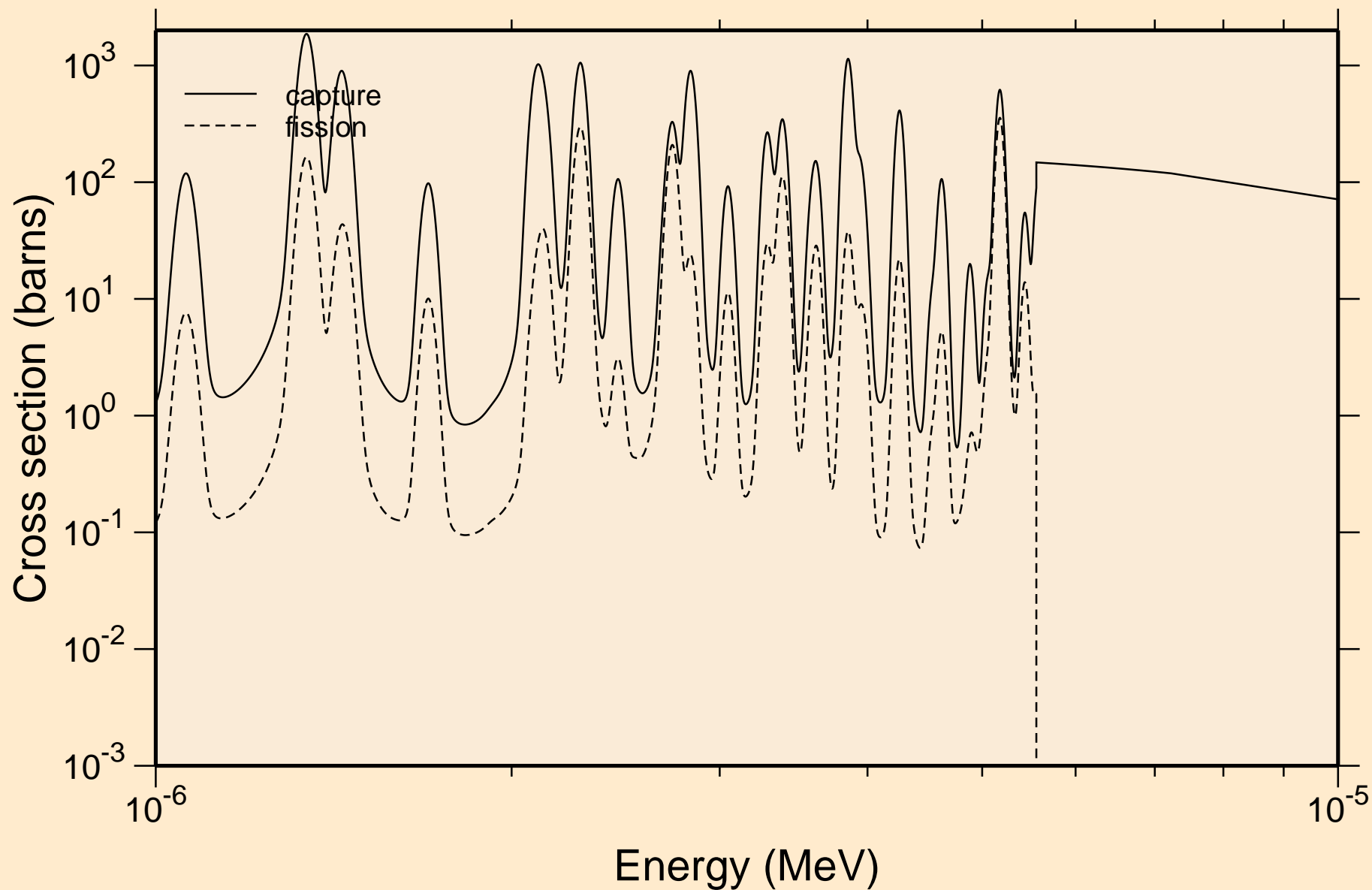
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections



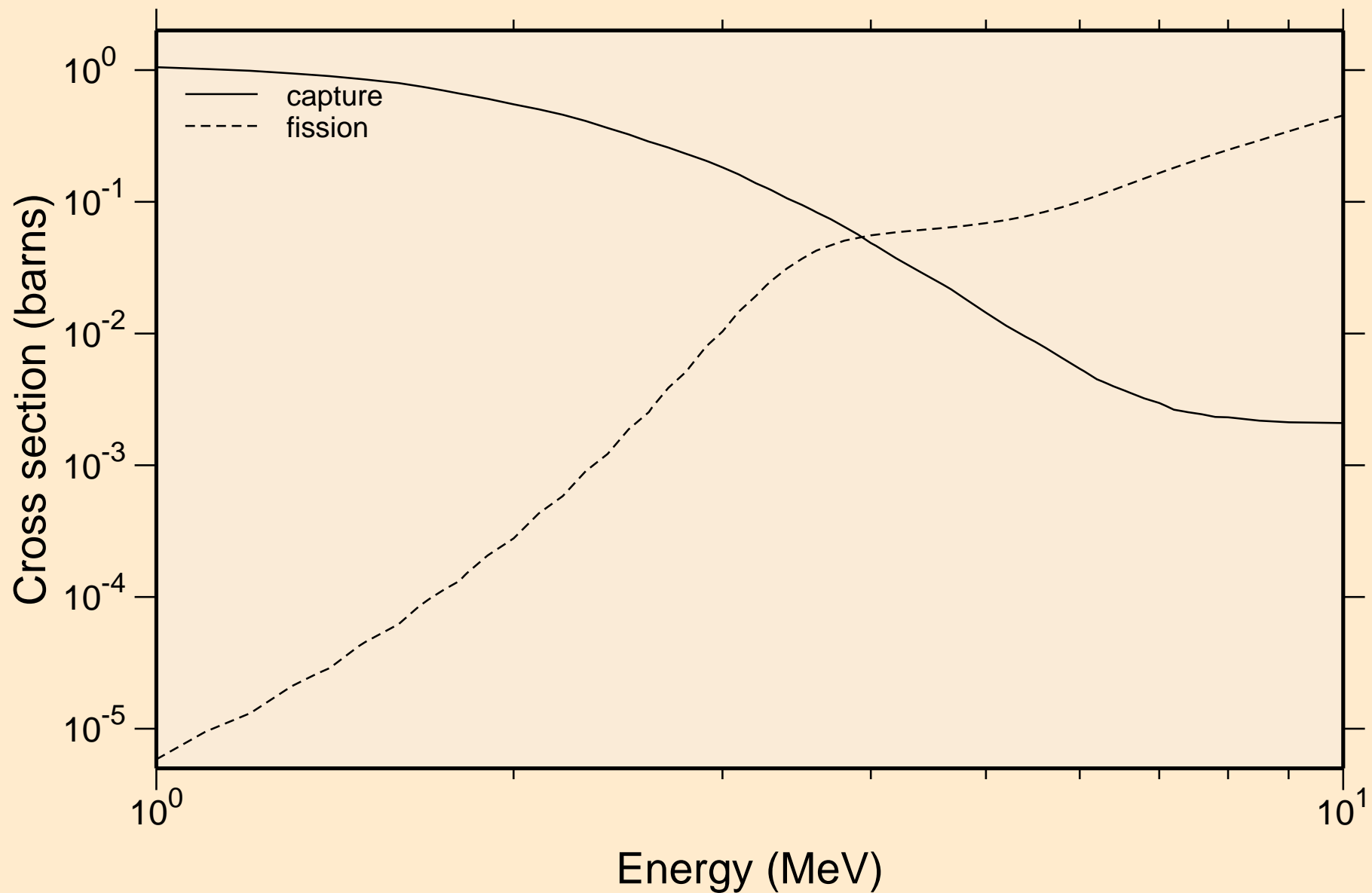
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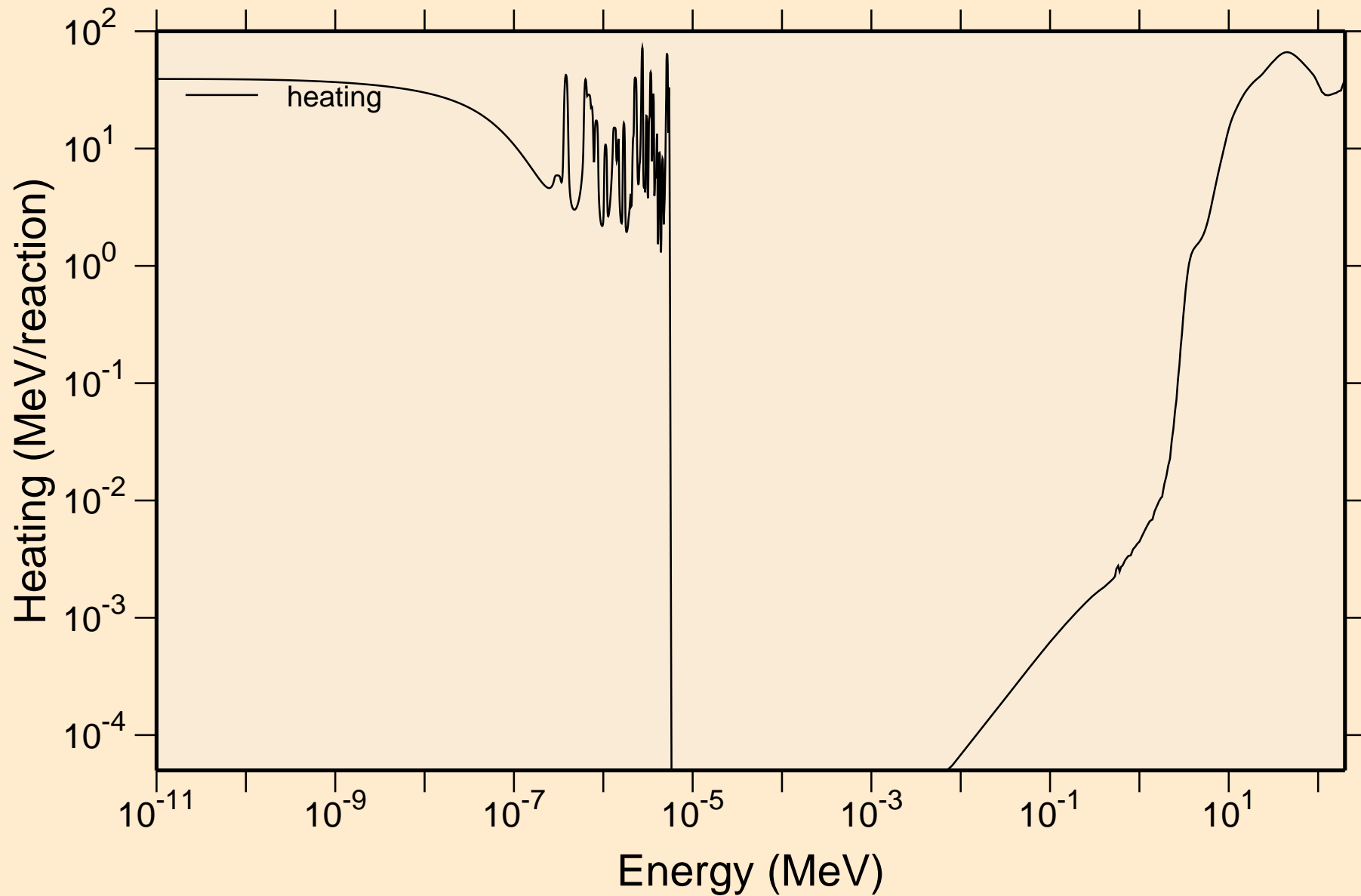
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections



ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

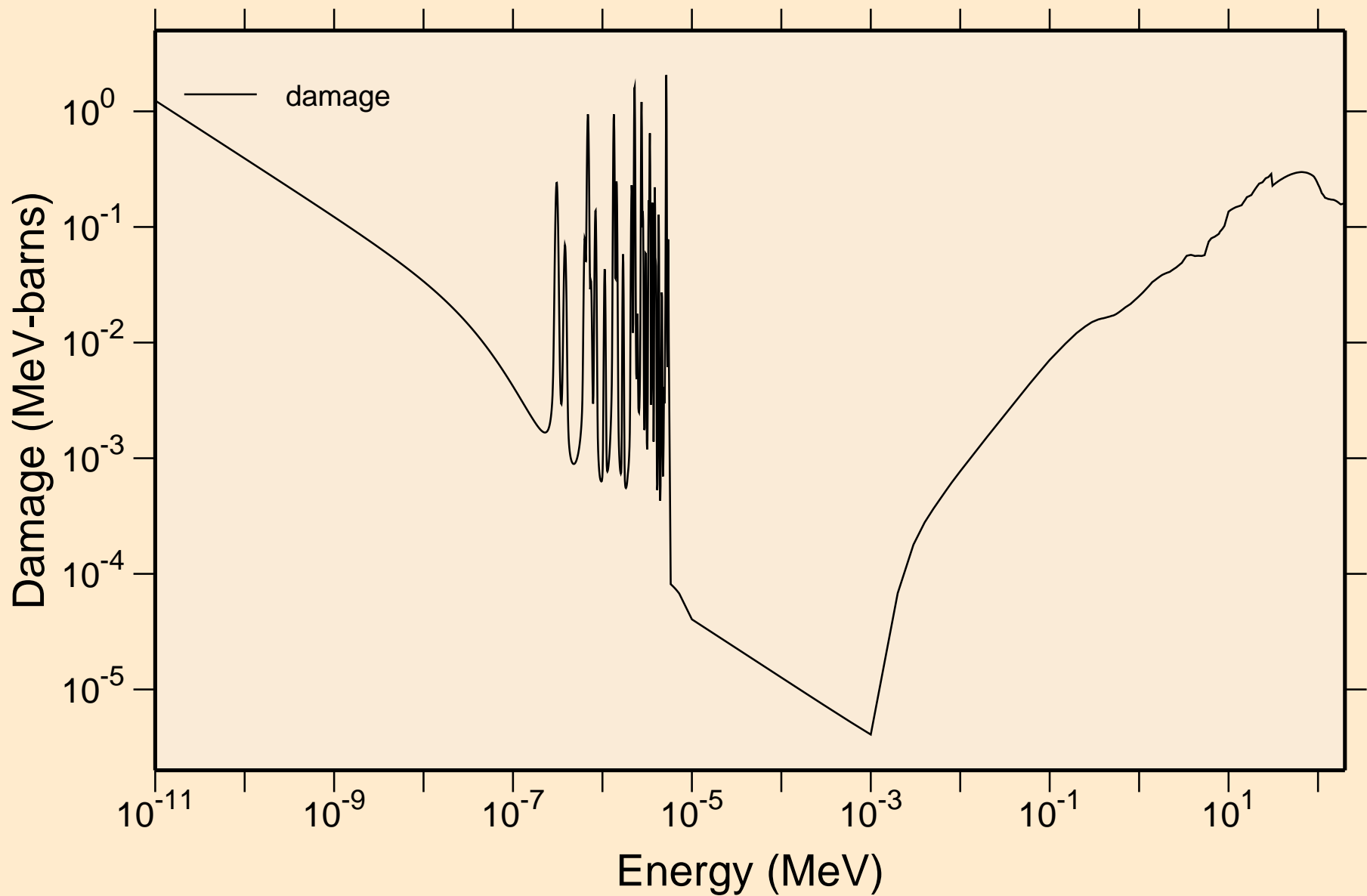


ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating



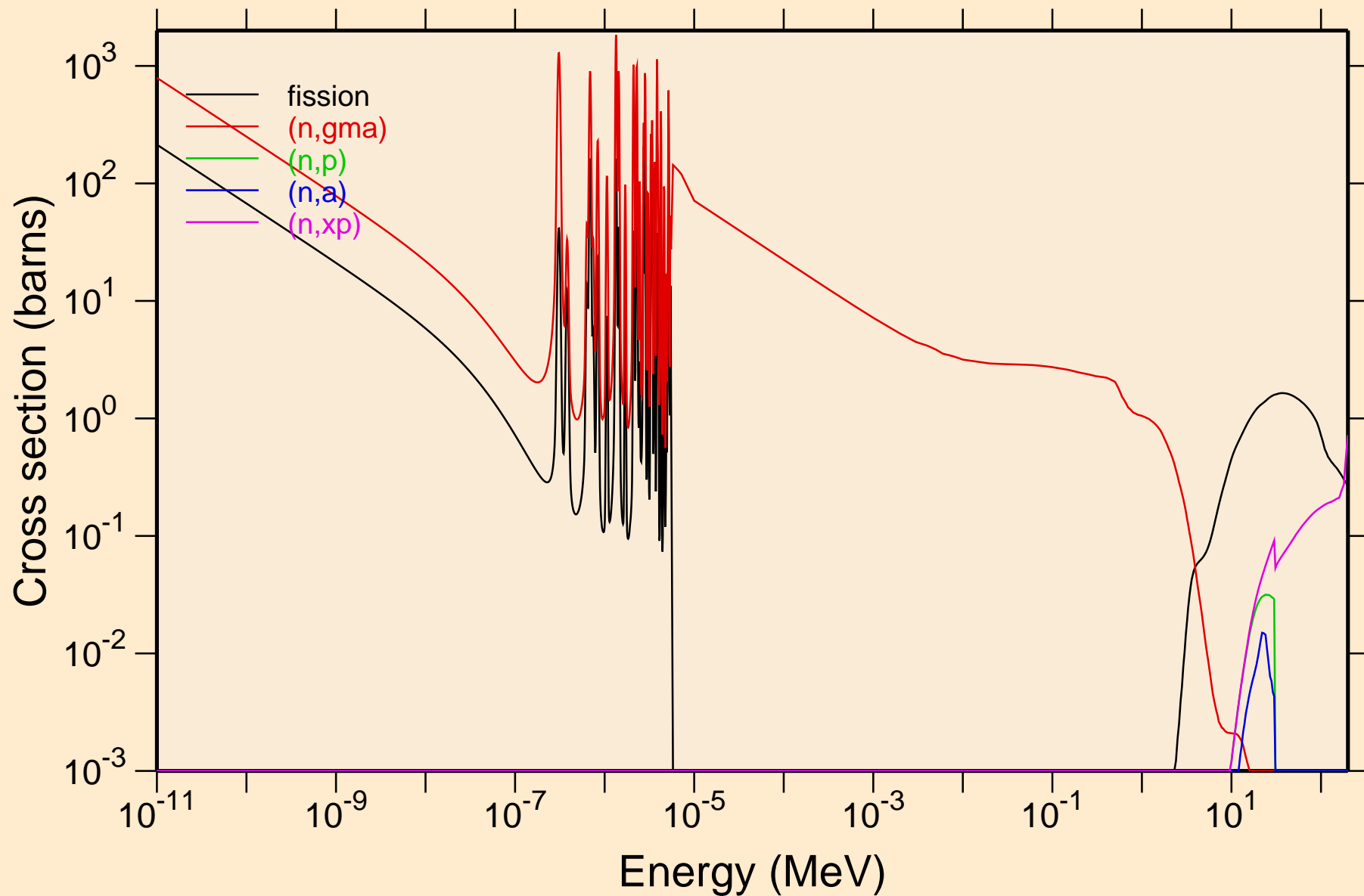
# ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Damage

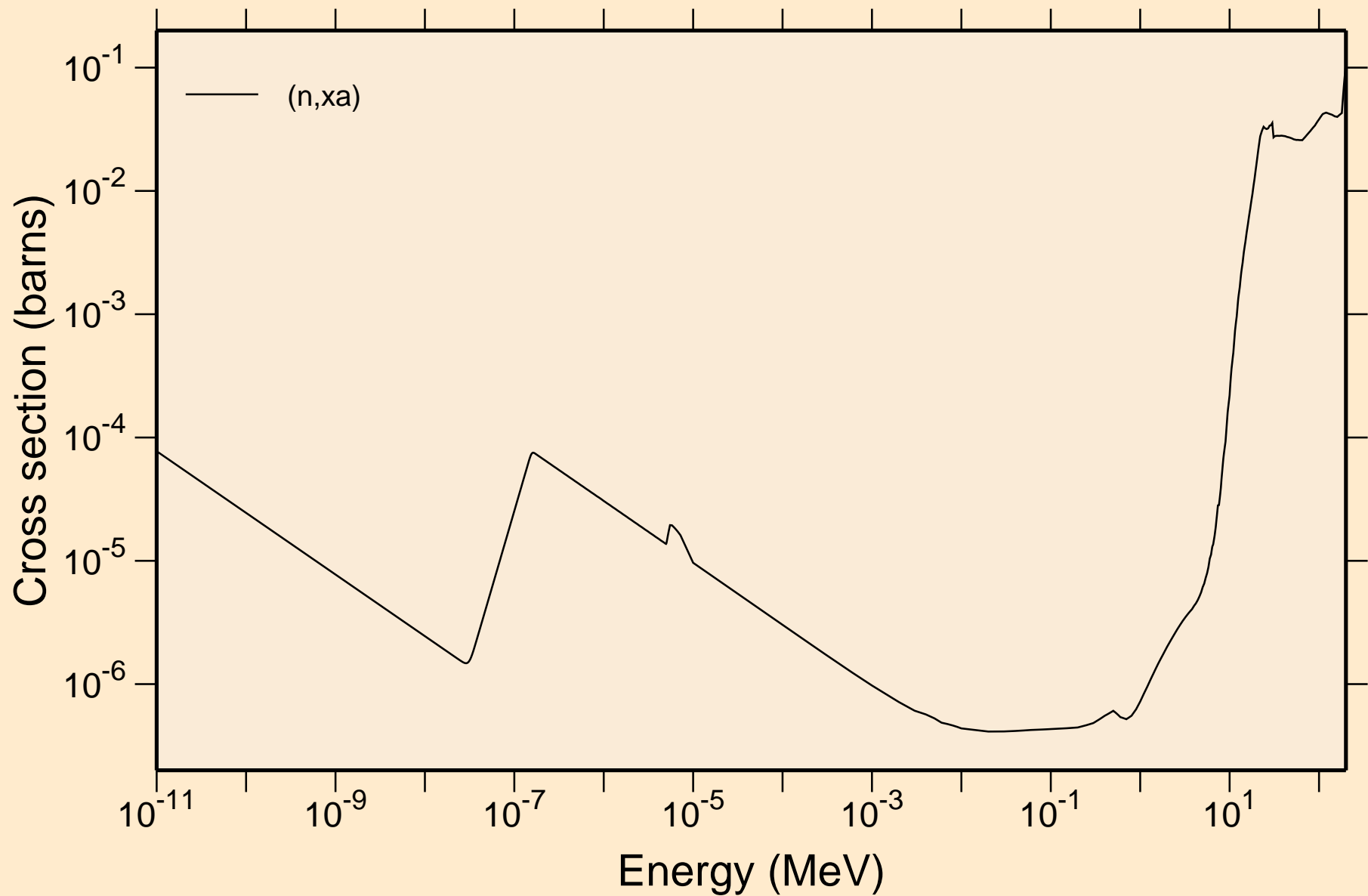


# ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Non-threshold reactions

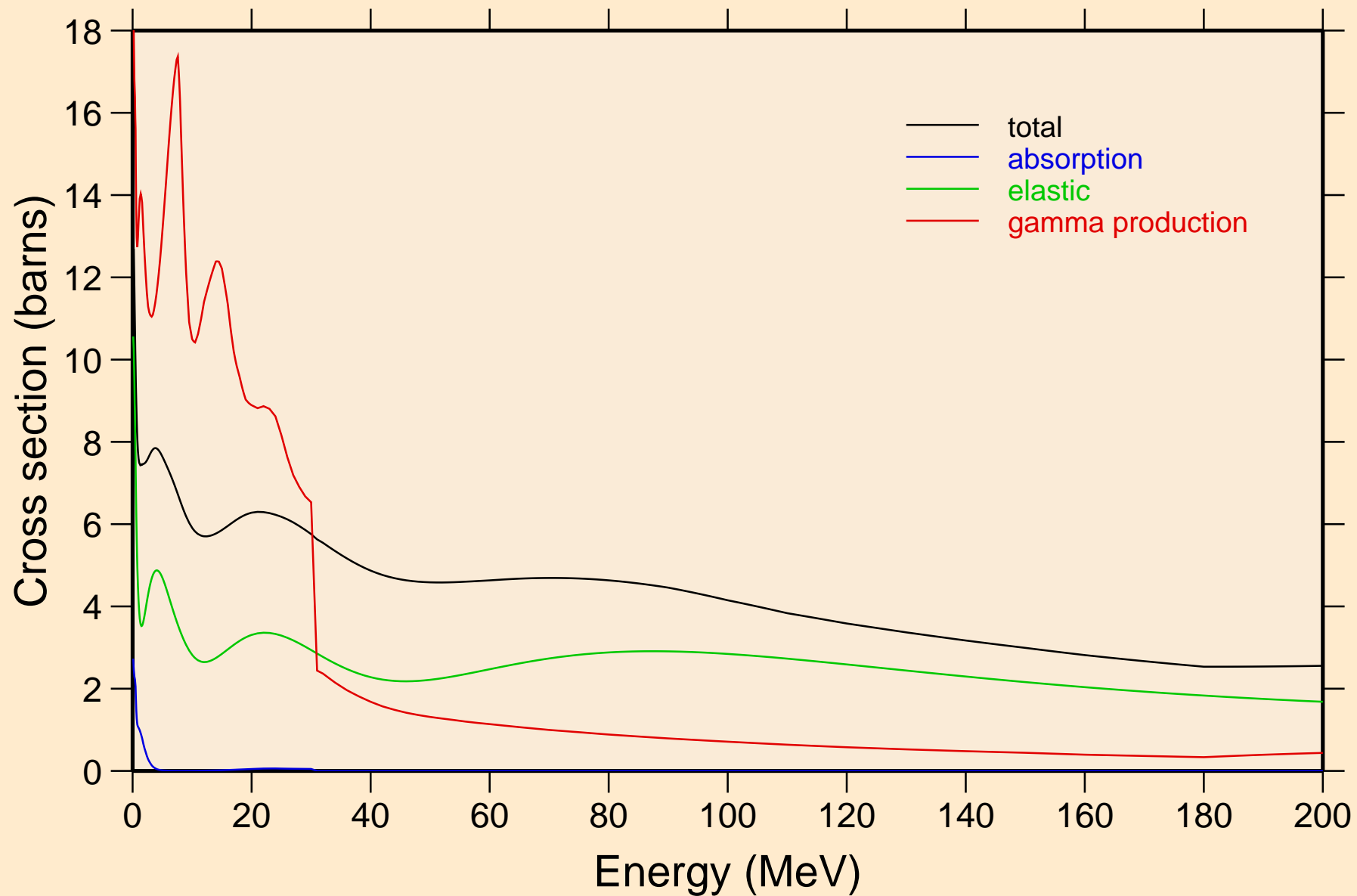


ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions

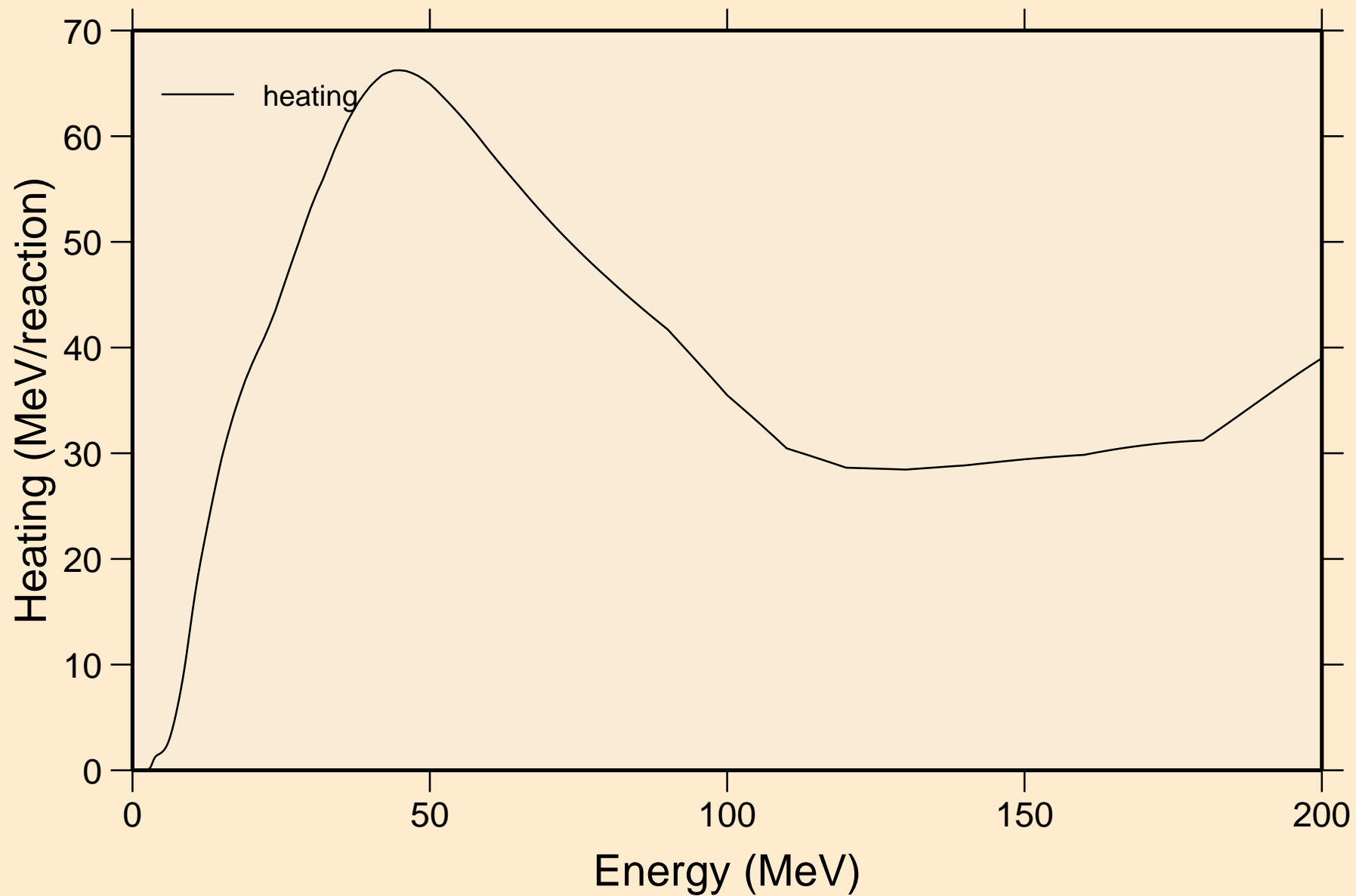


# ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

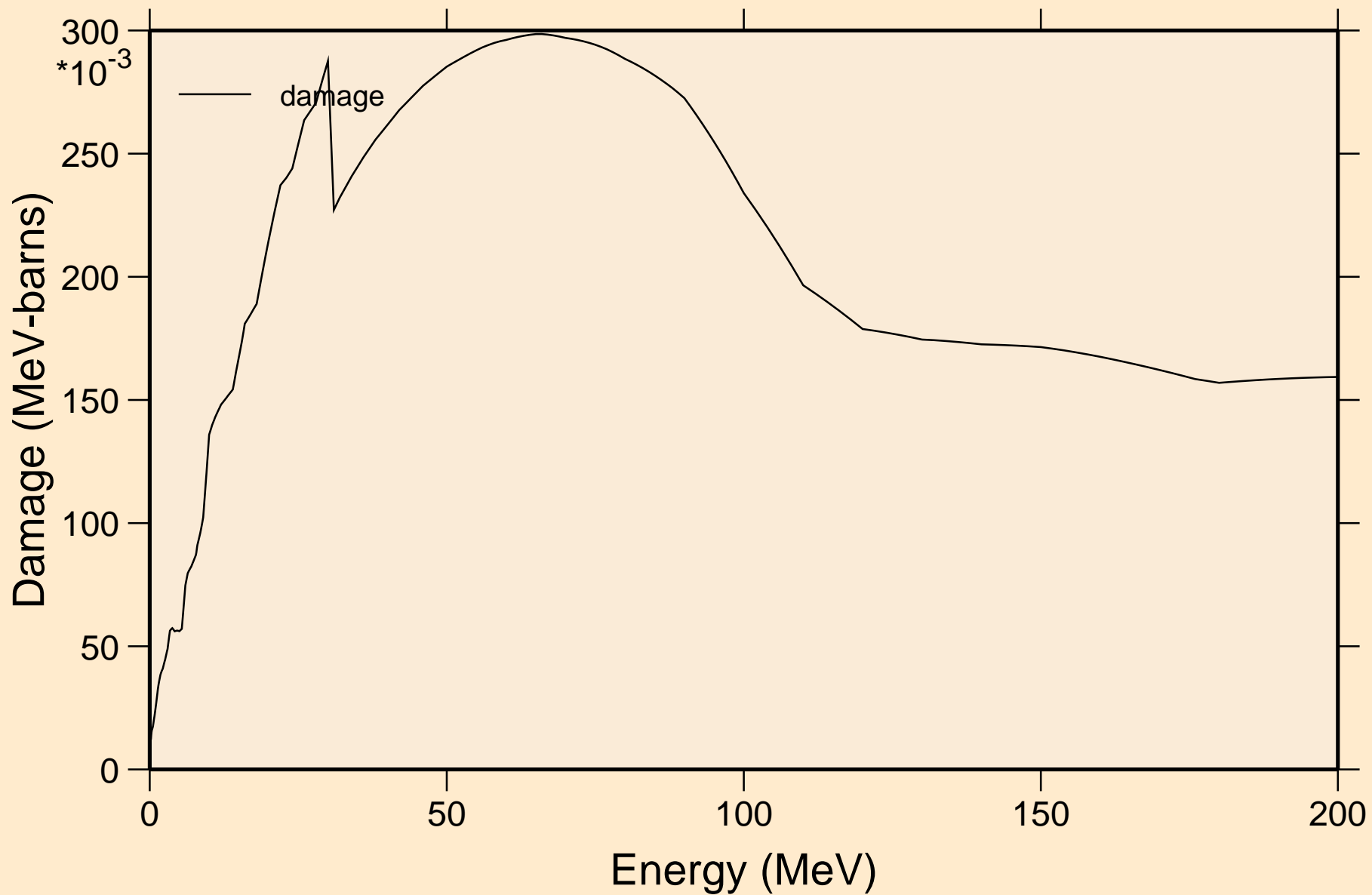
## Principal cross sections



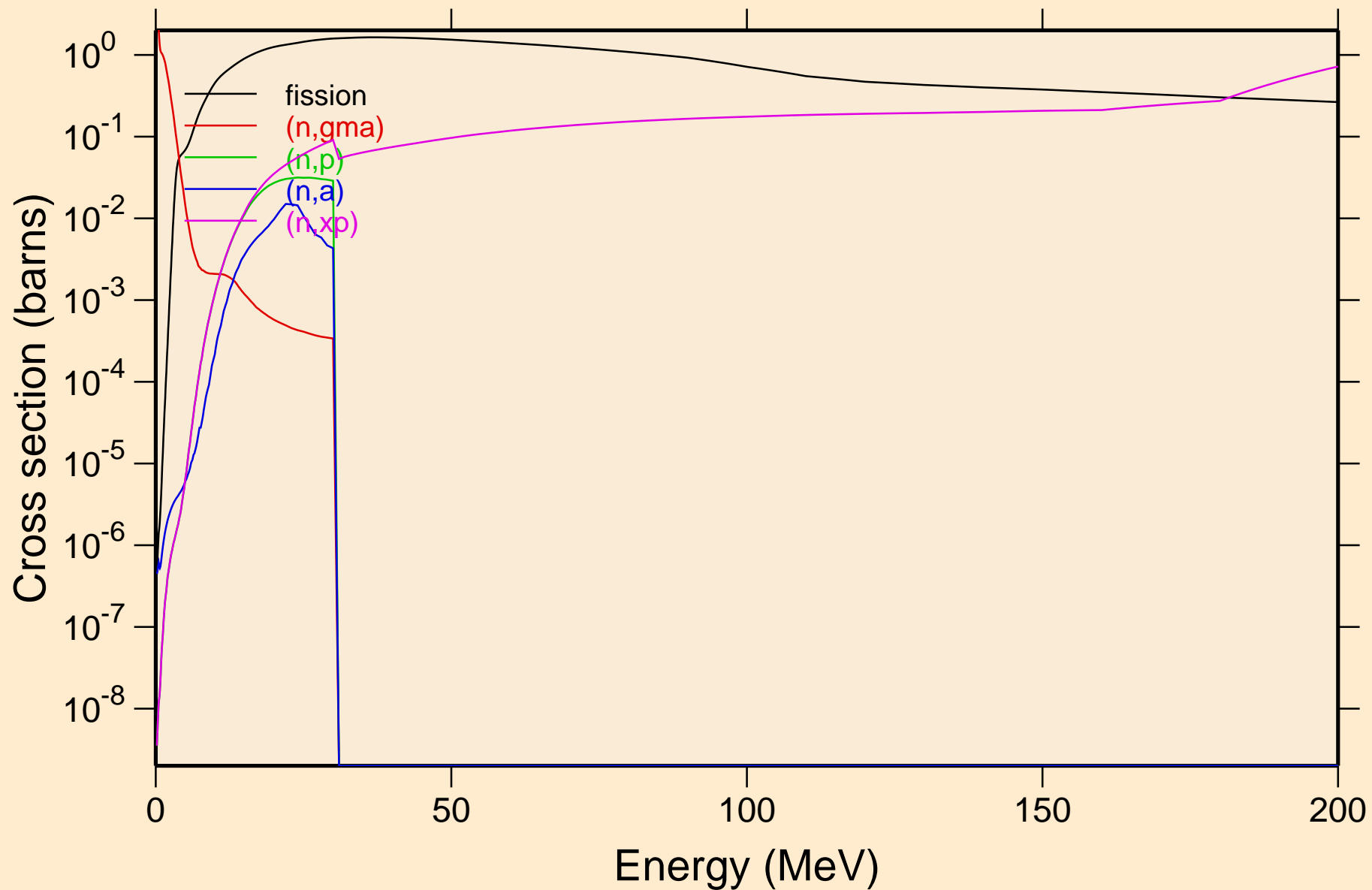
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating



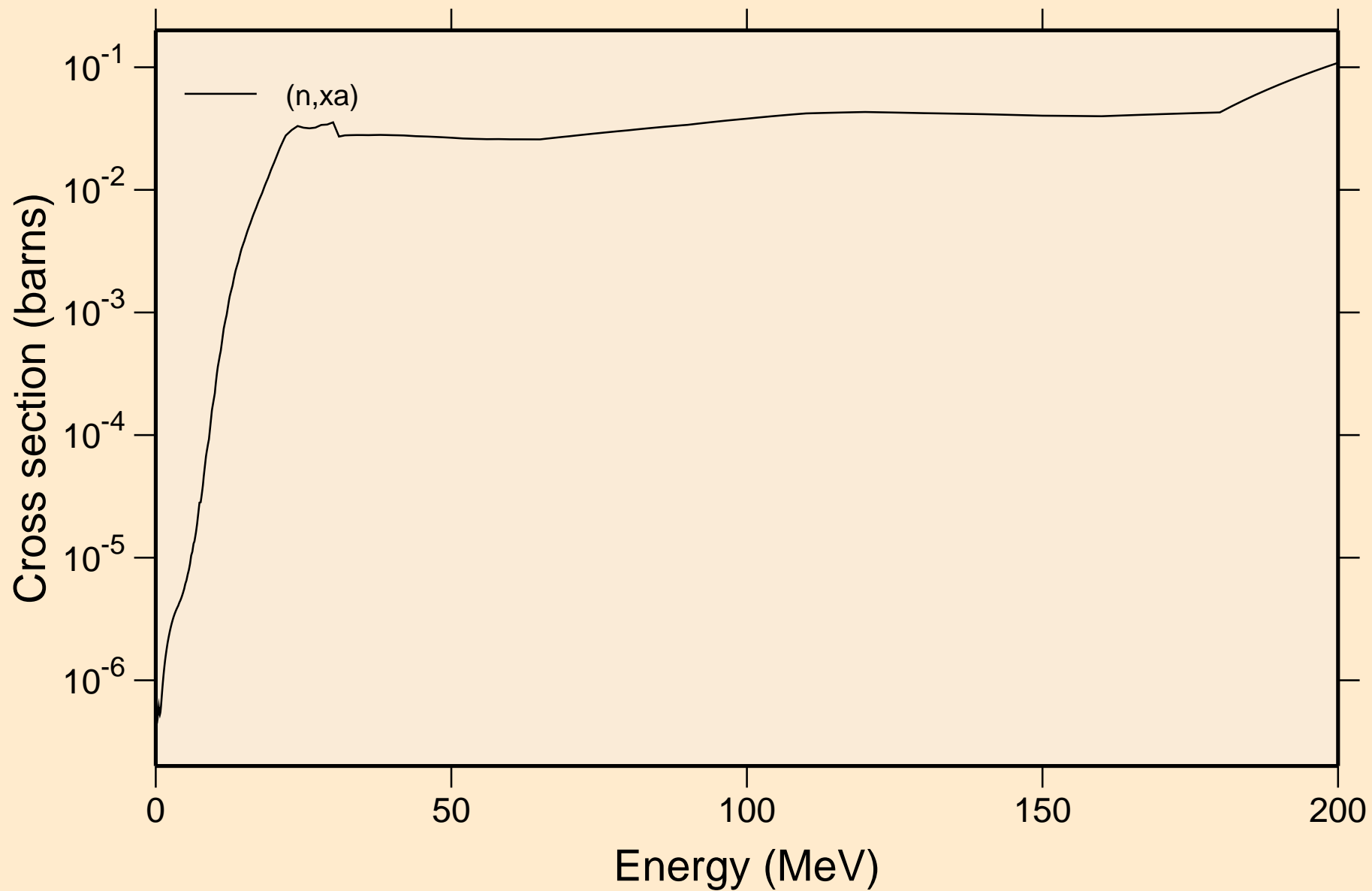
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Damage



ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions



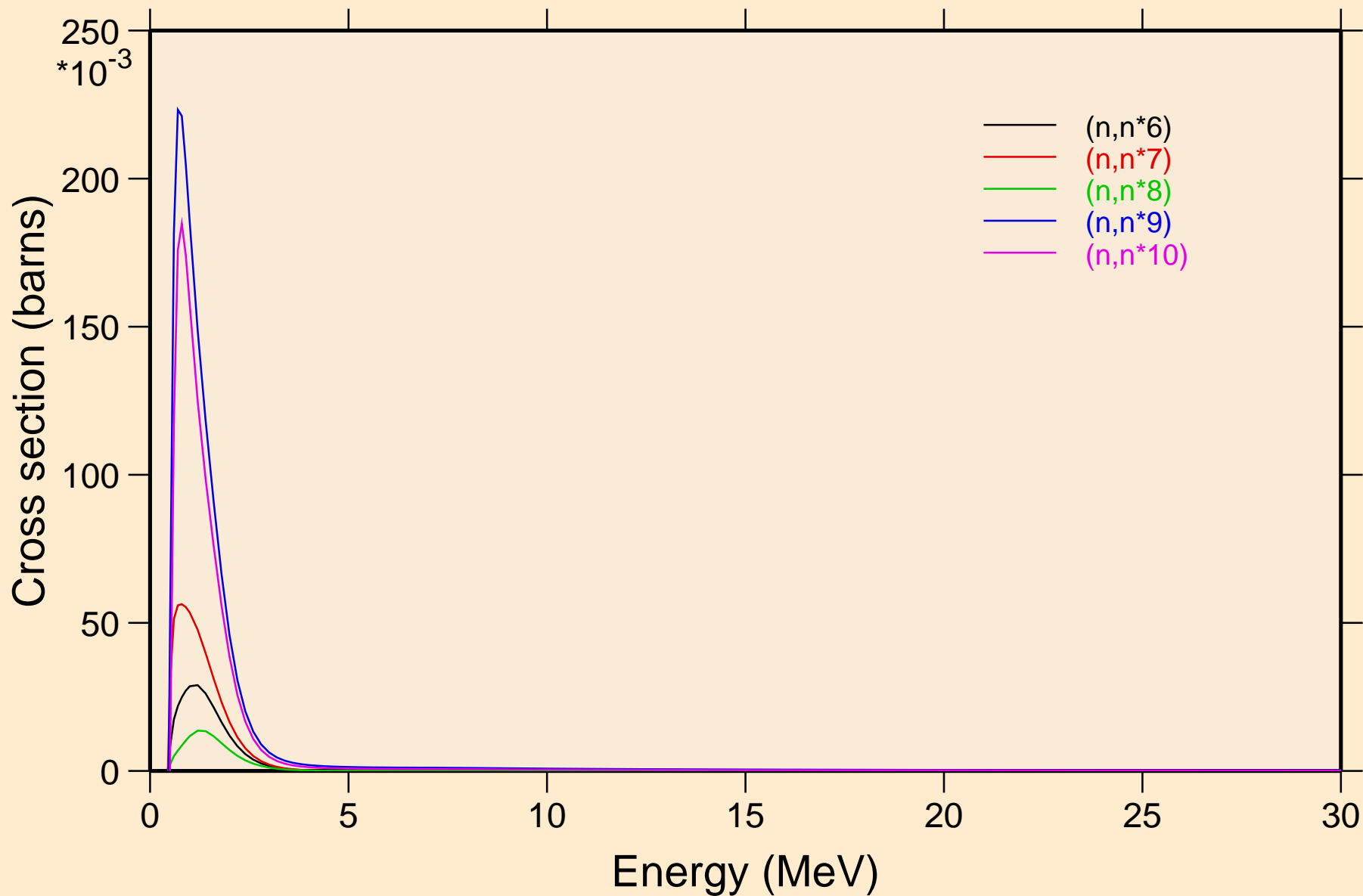
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions



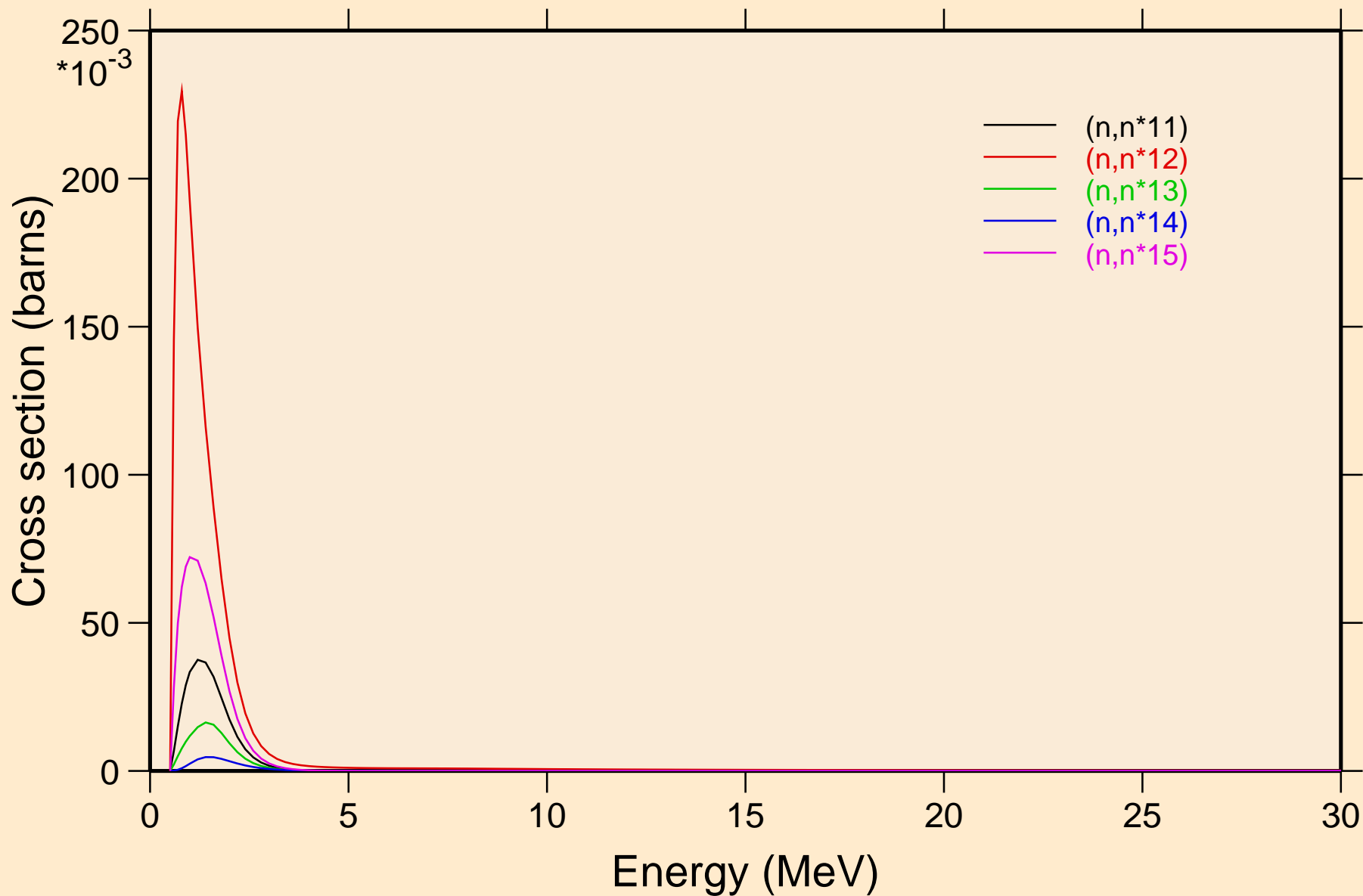
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



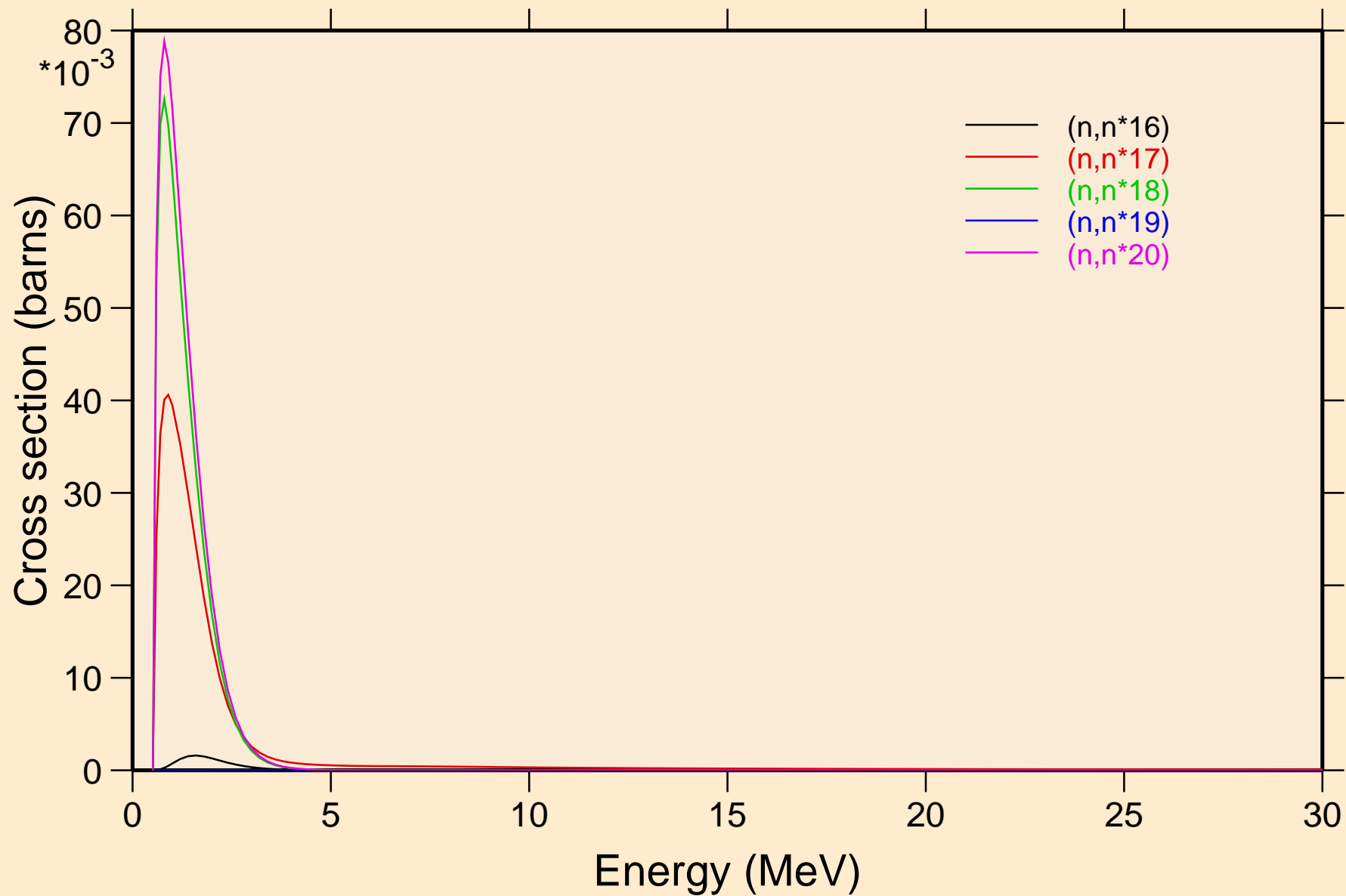
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



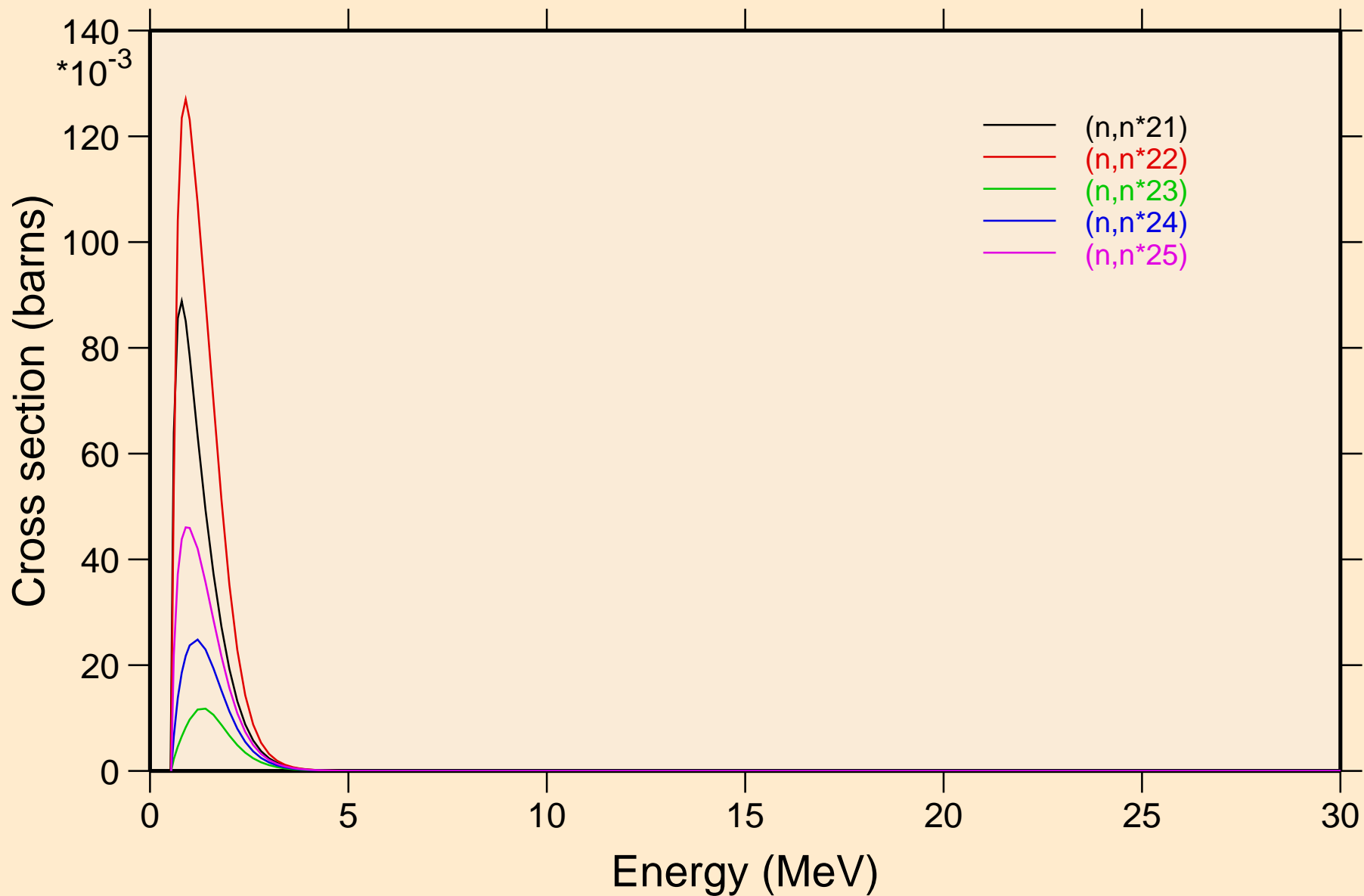
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels

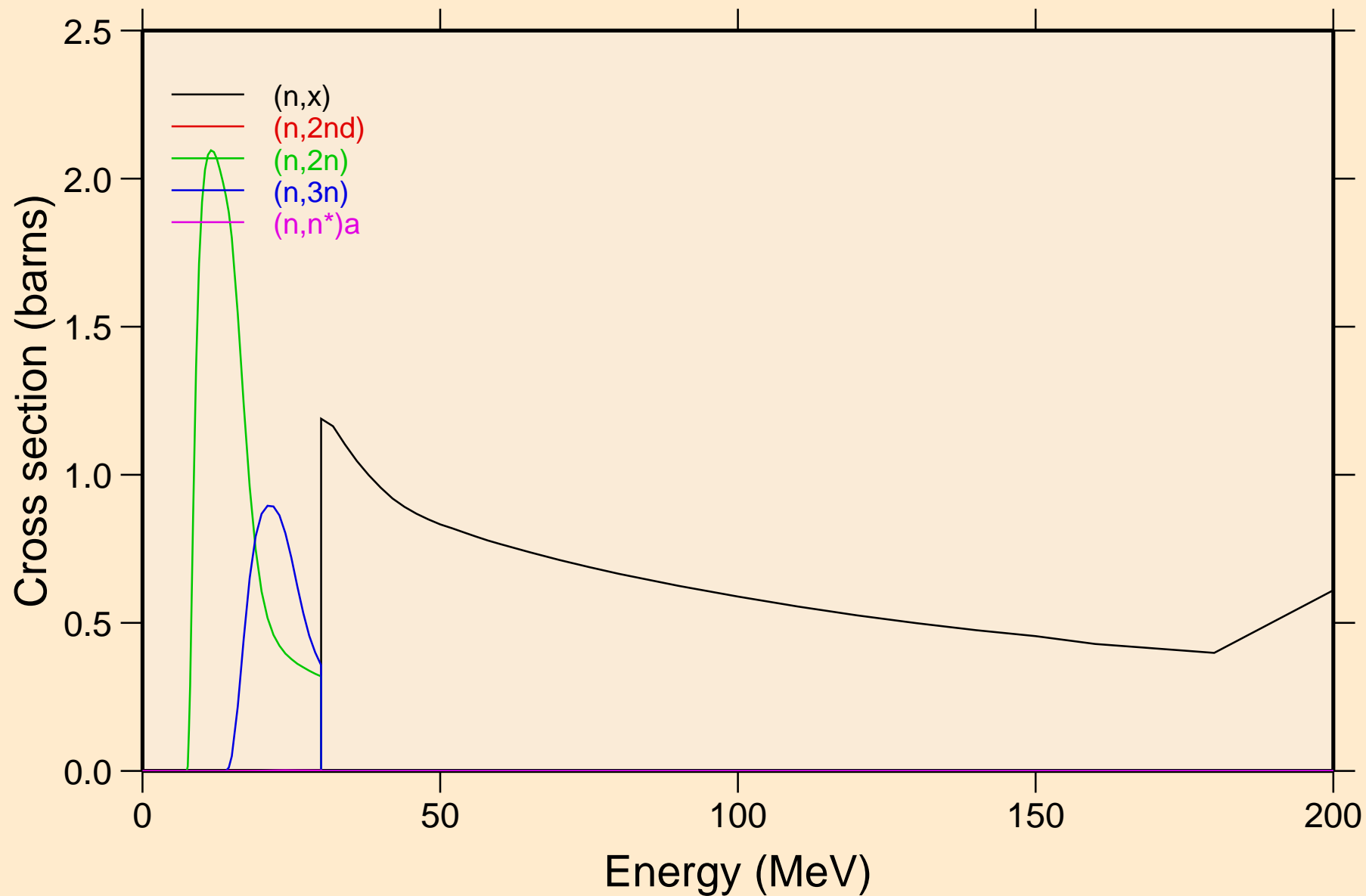


ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels

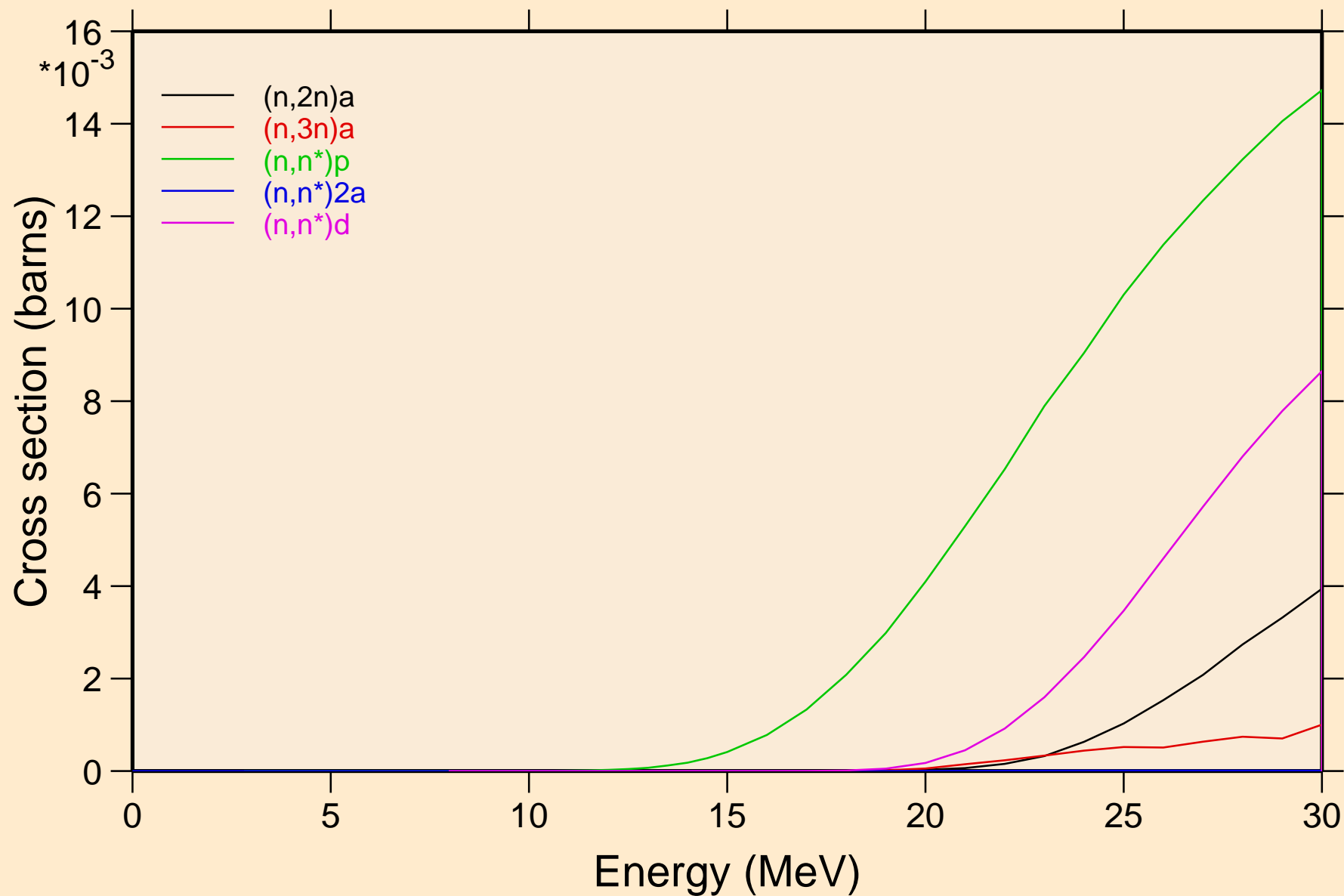


# ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Threshold reactions

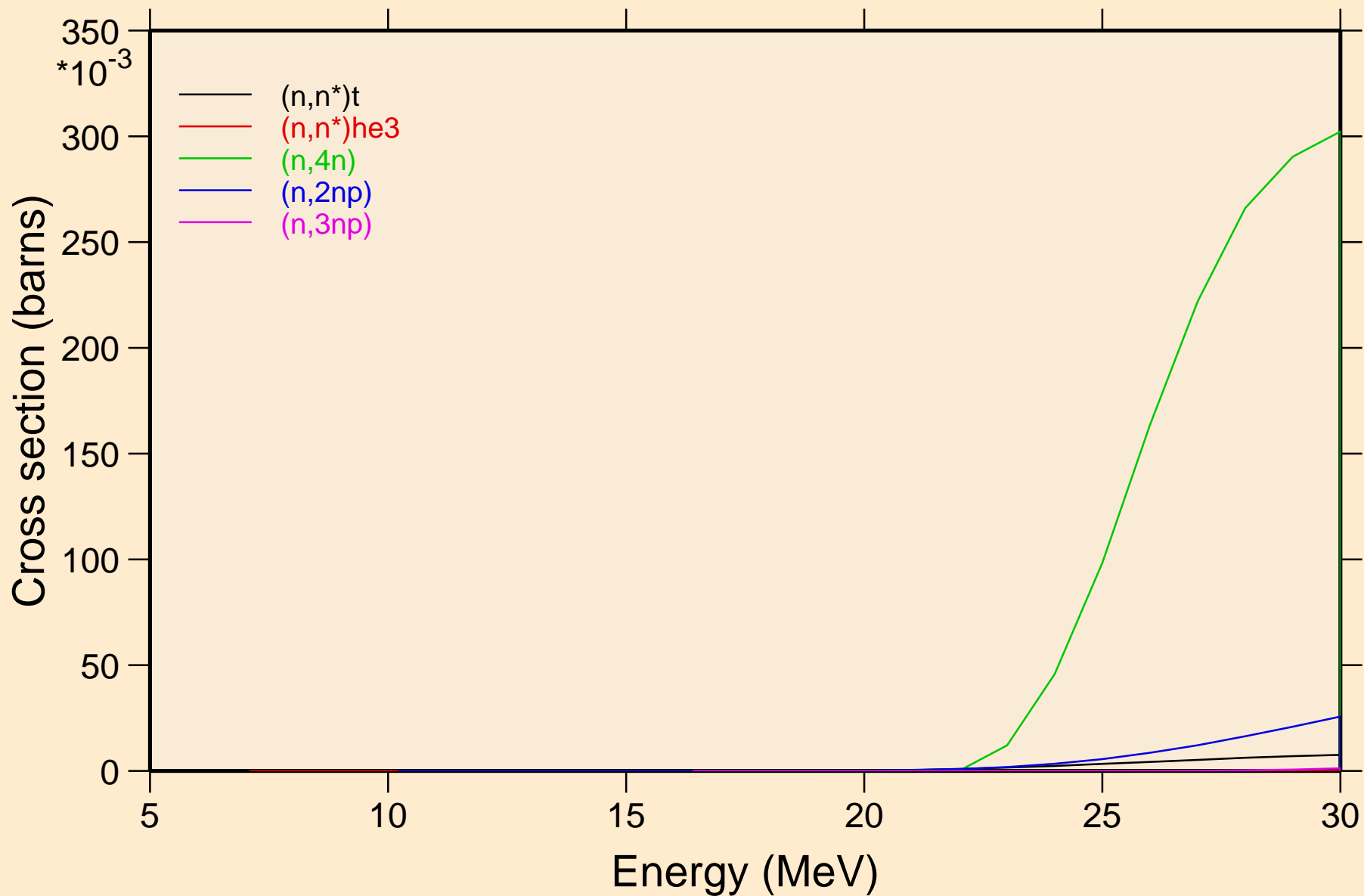


ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions

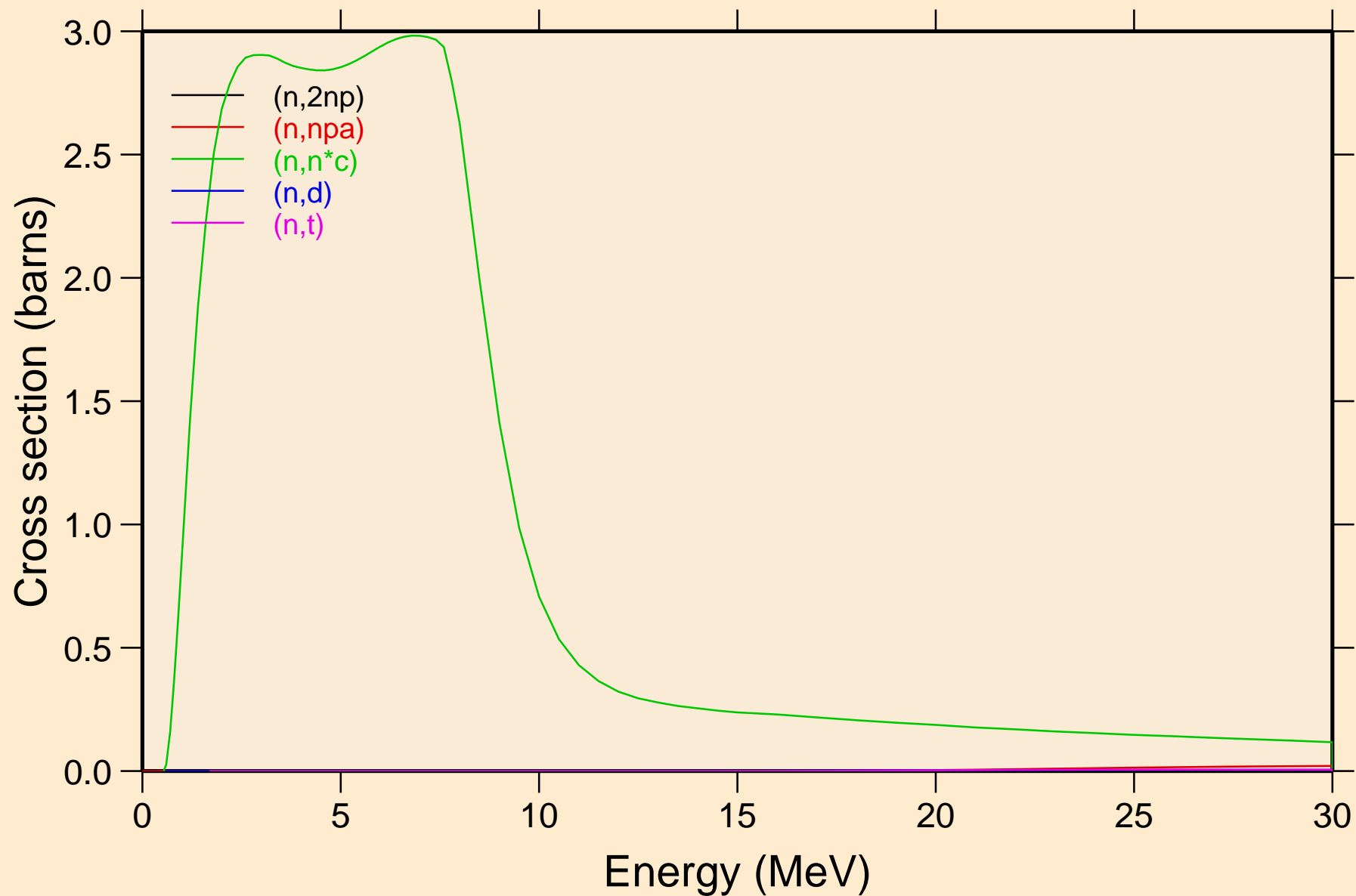


# ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Threshold reactions

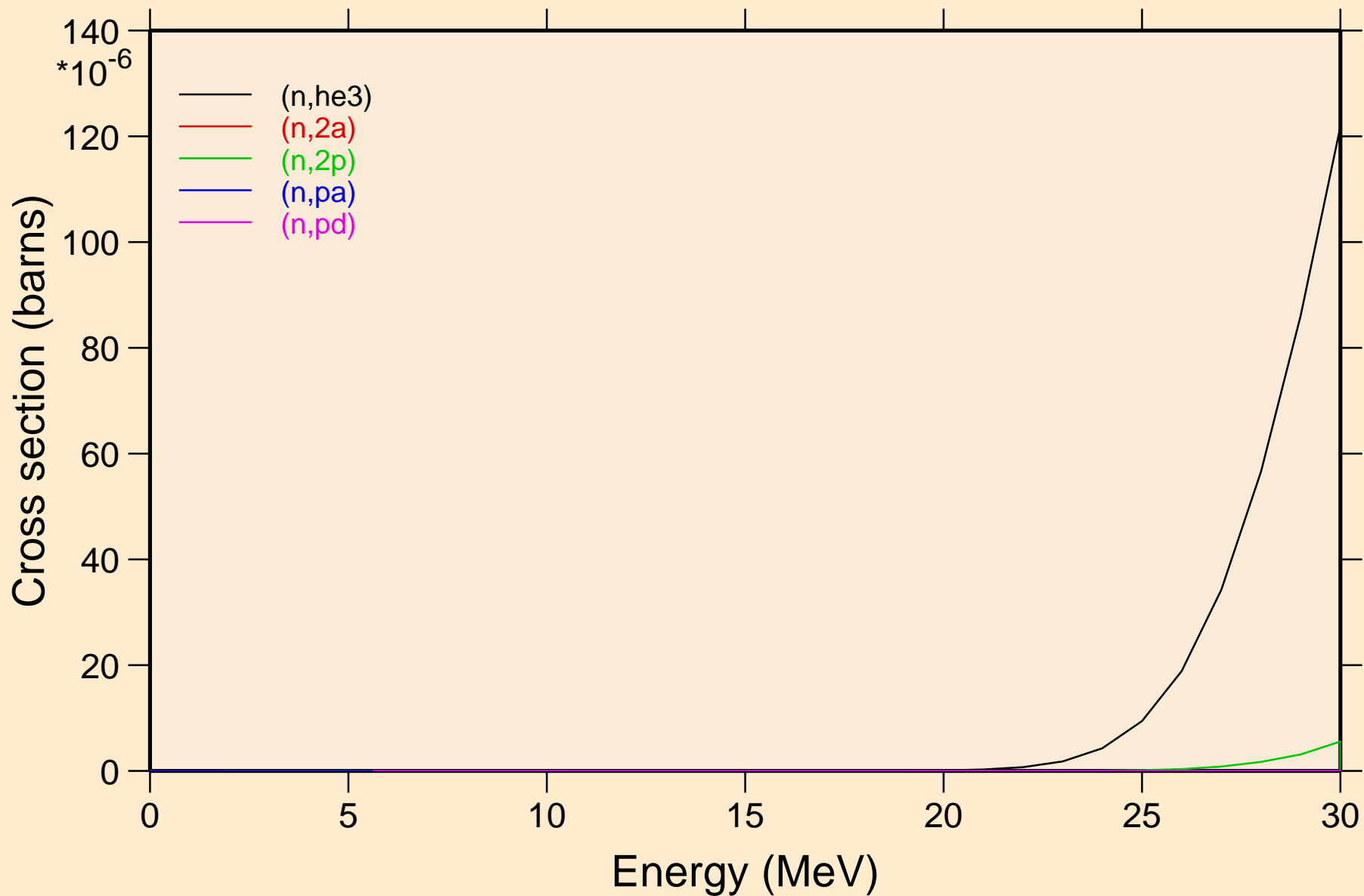


ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions

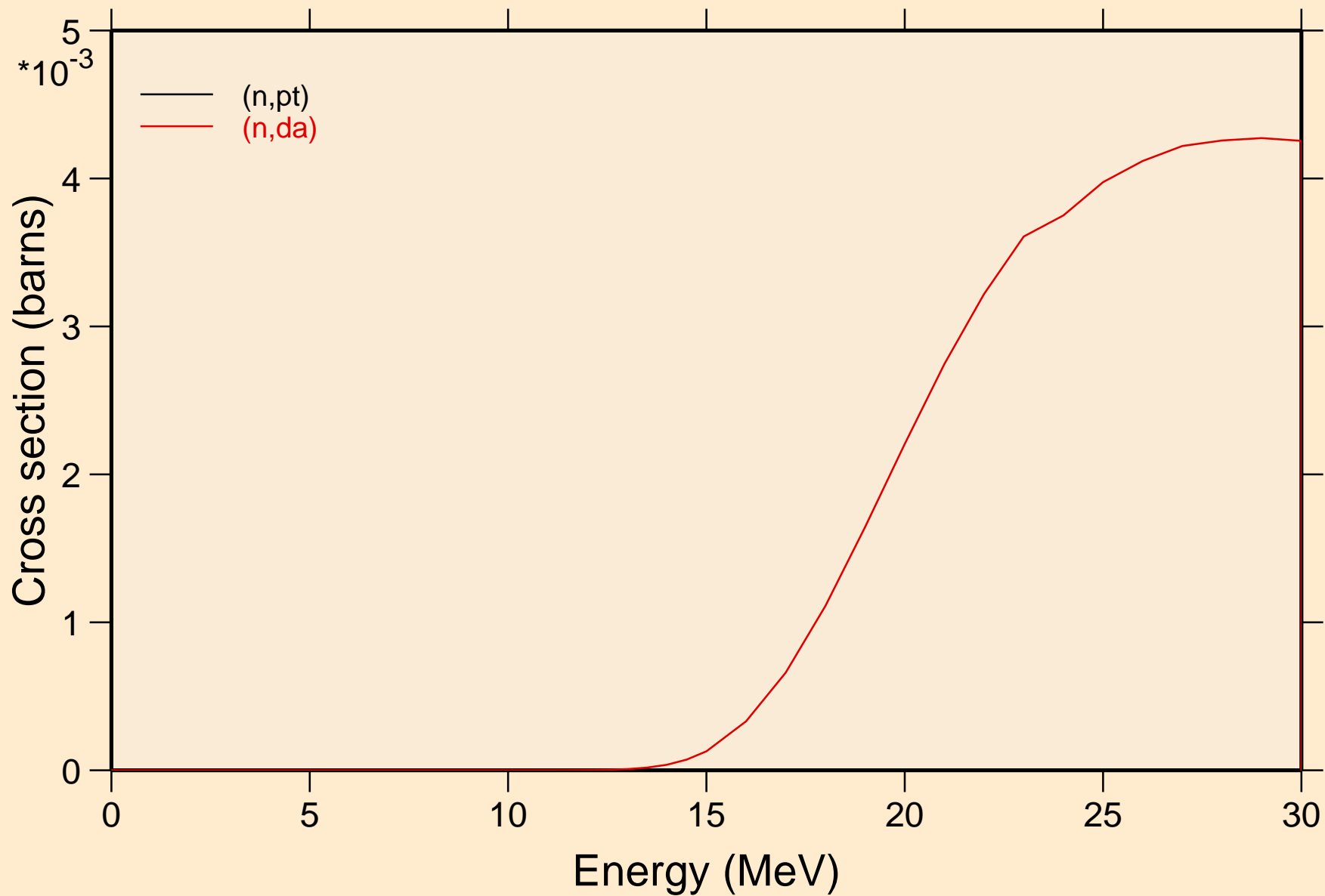


# ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Threshold reactions

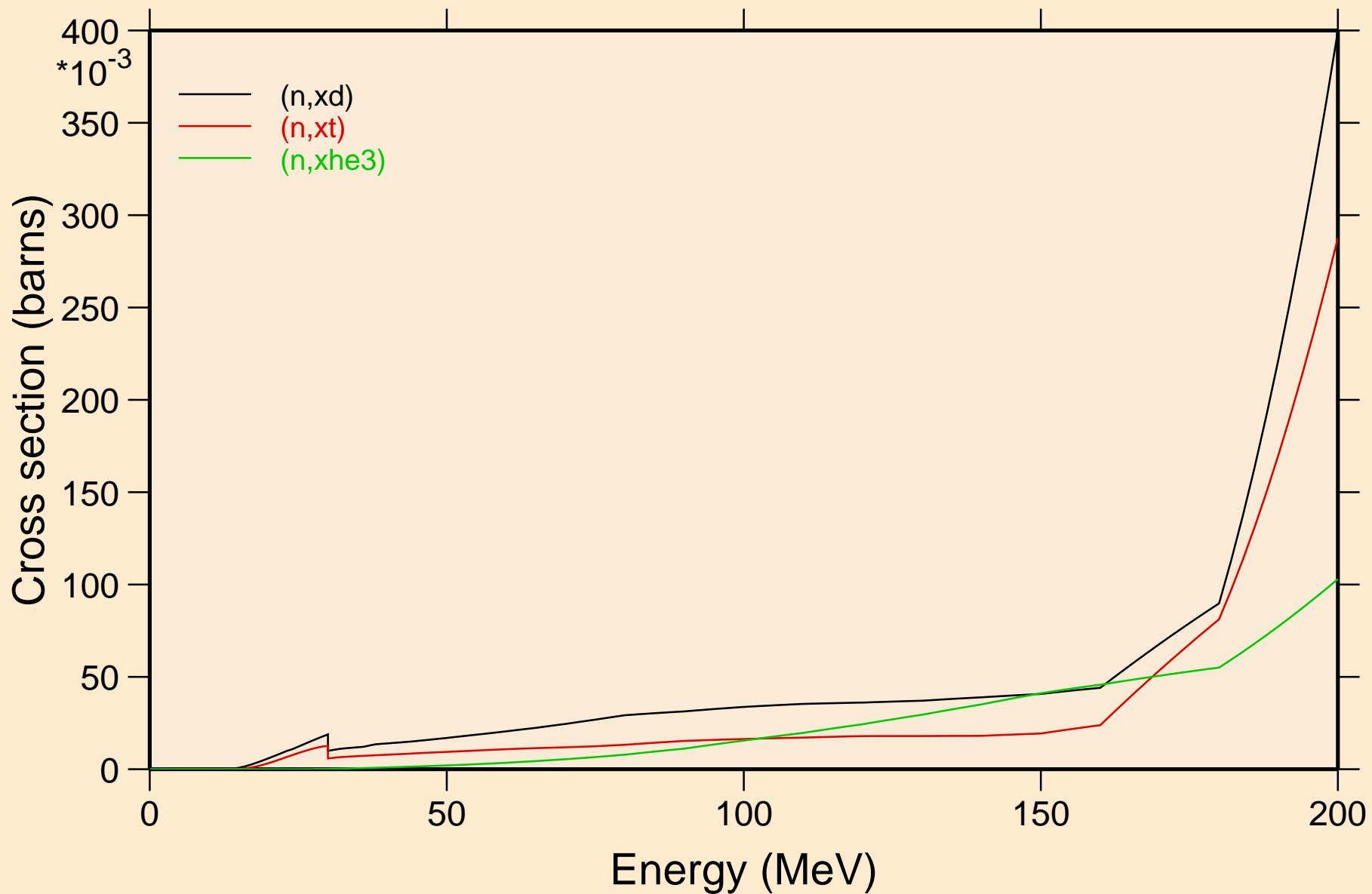


ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions

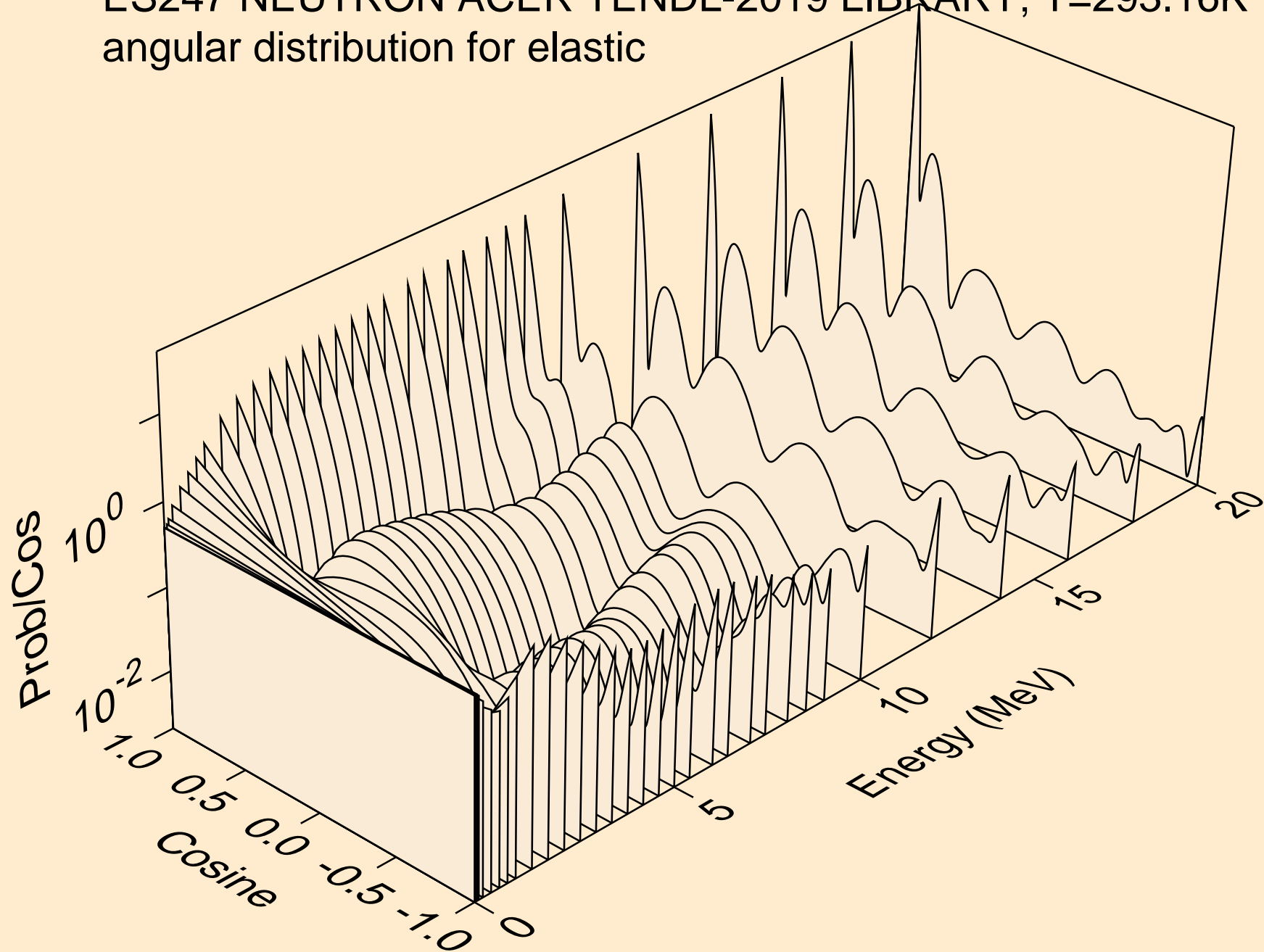


# ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

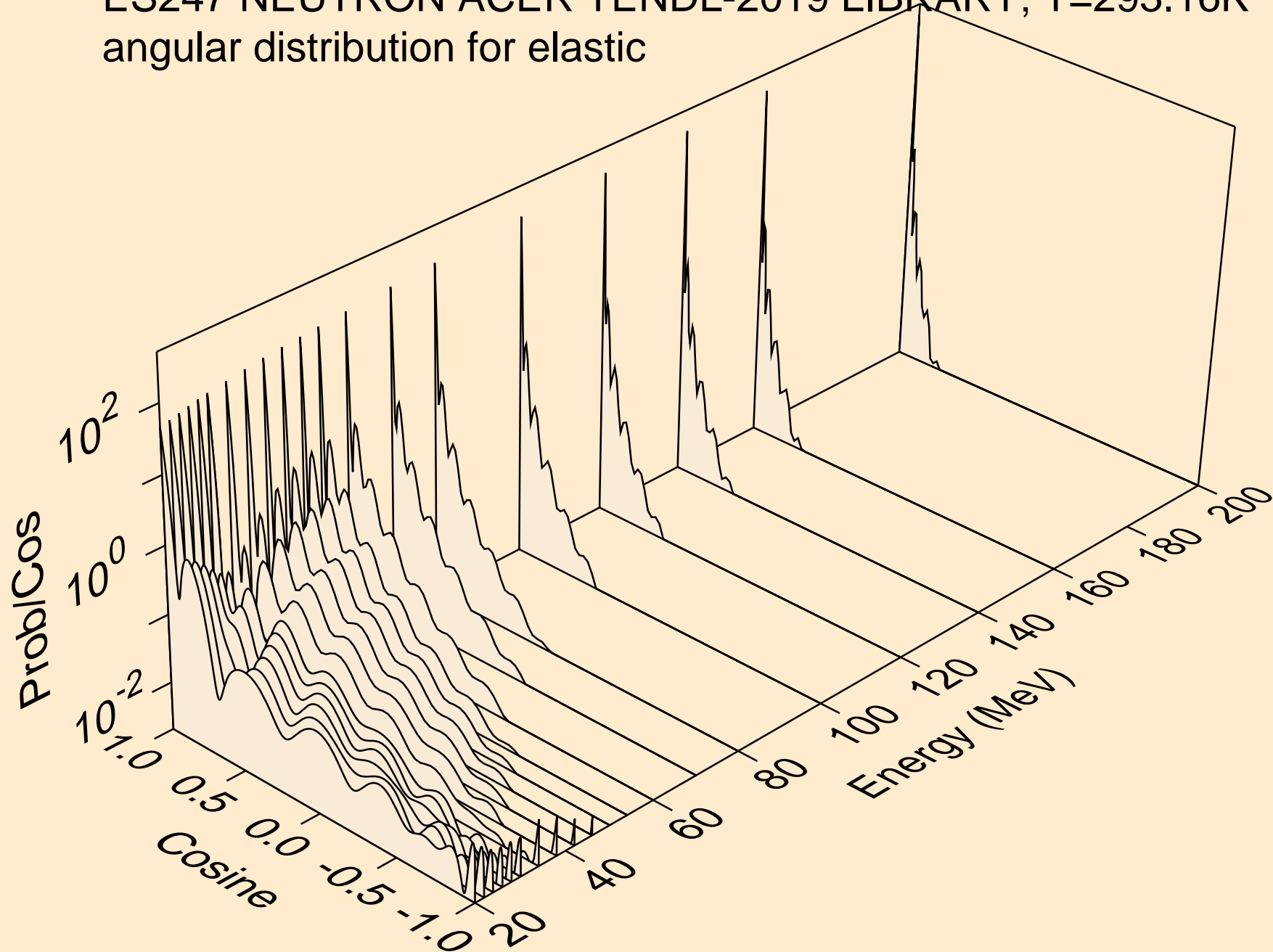
## Threshold reactions



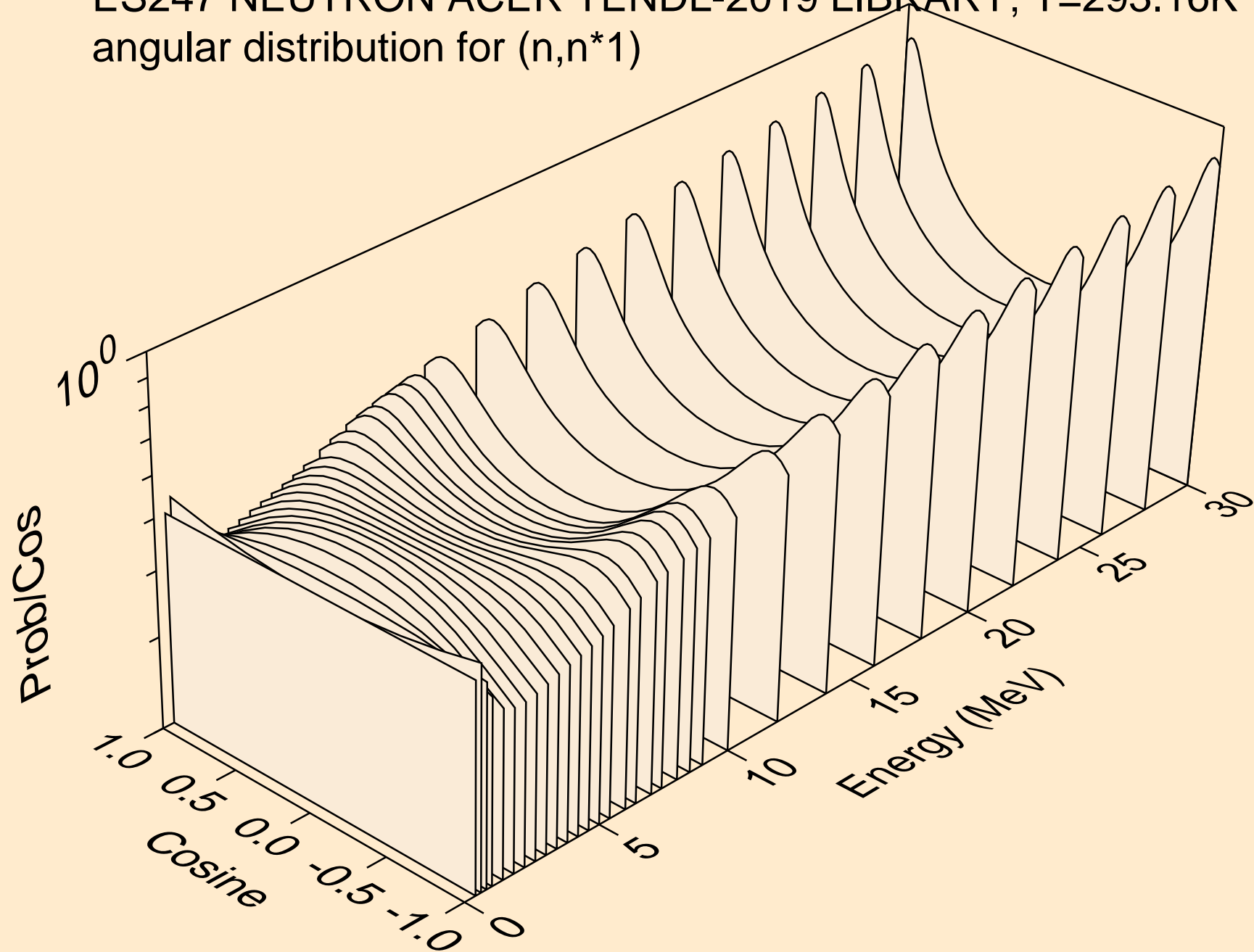
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for elastic



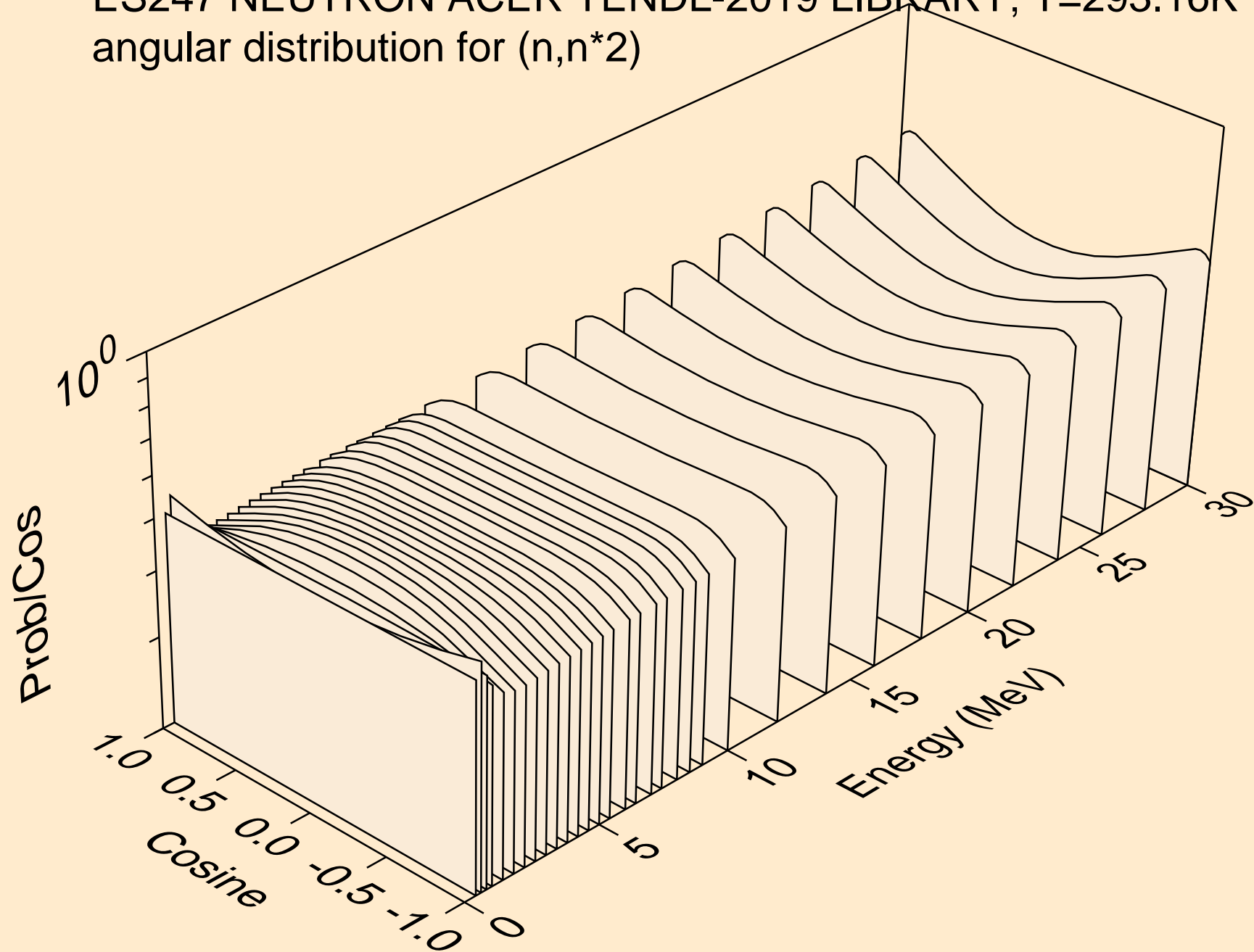
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angular distribution for elastic



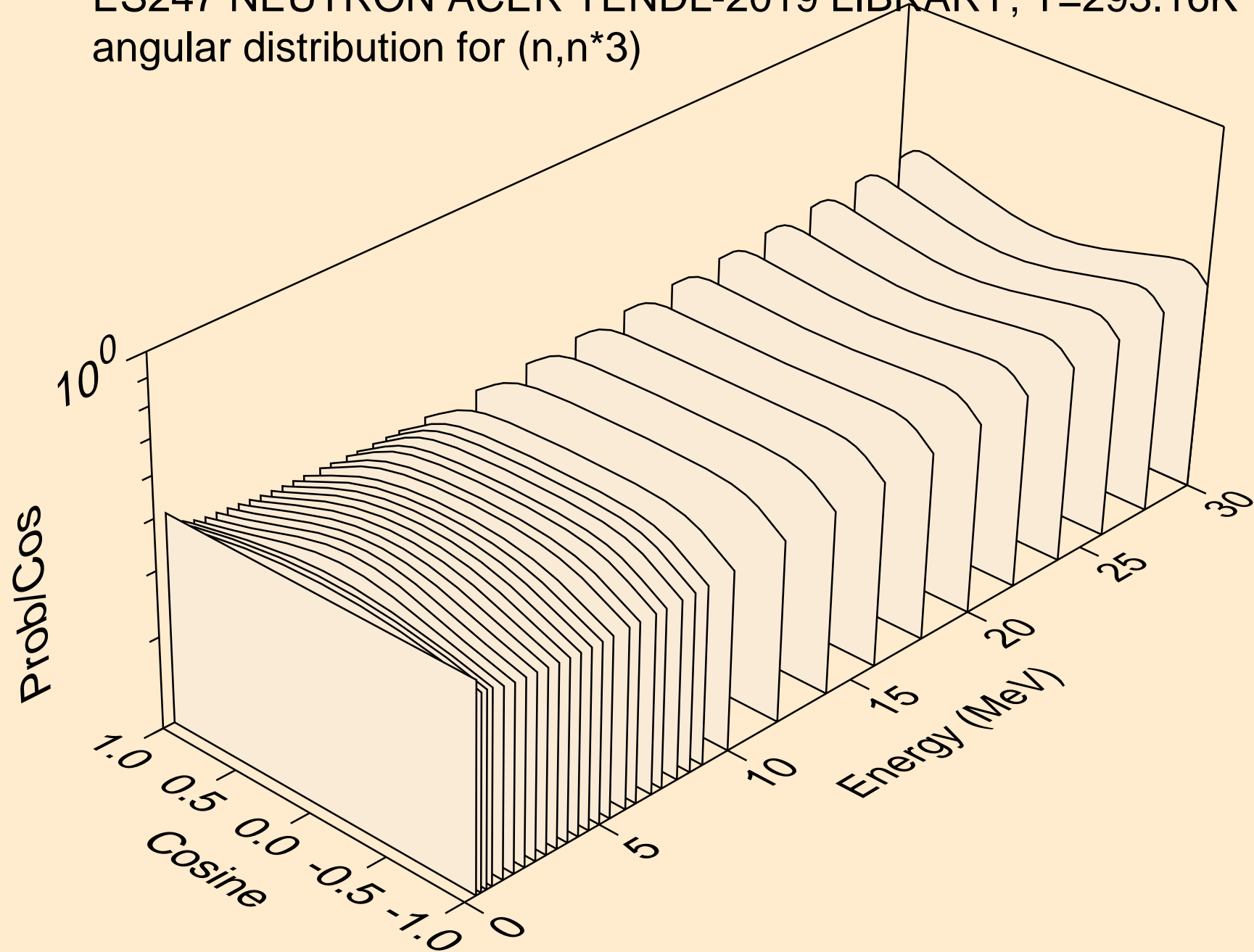
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*1)



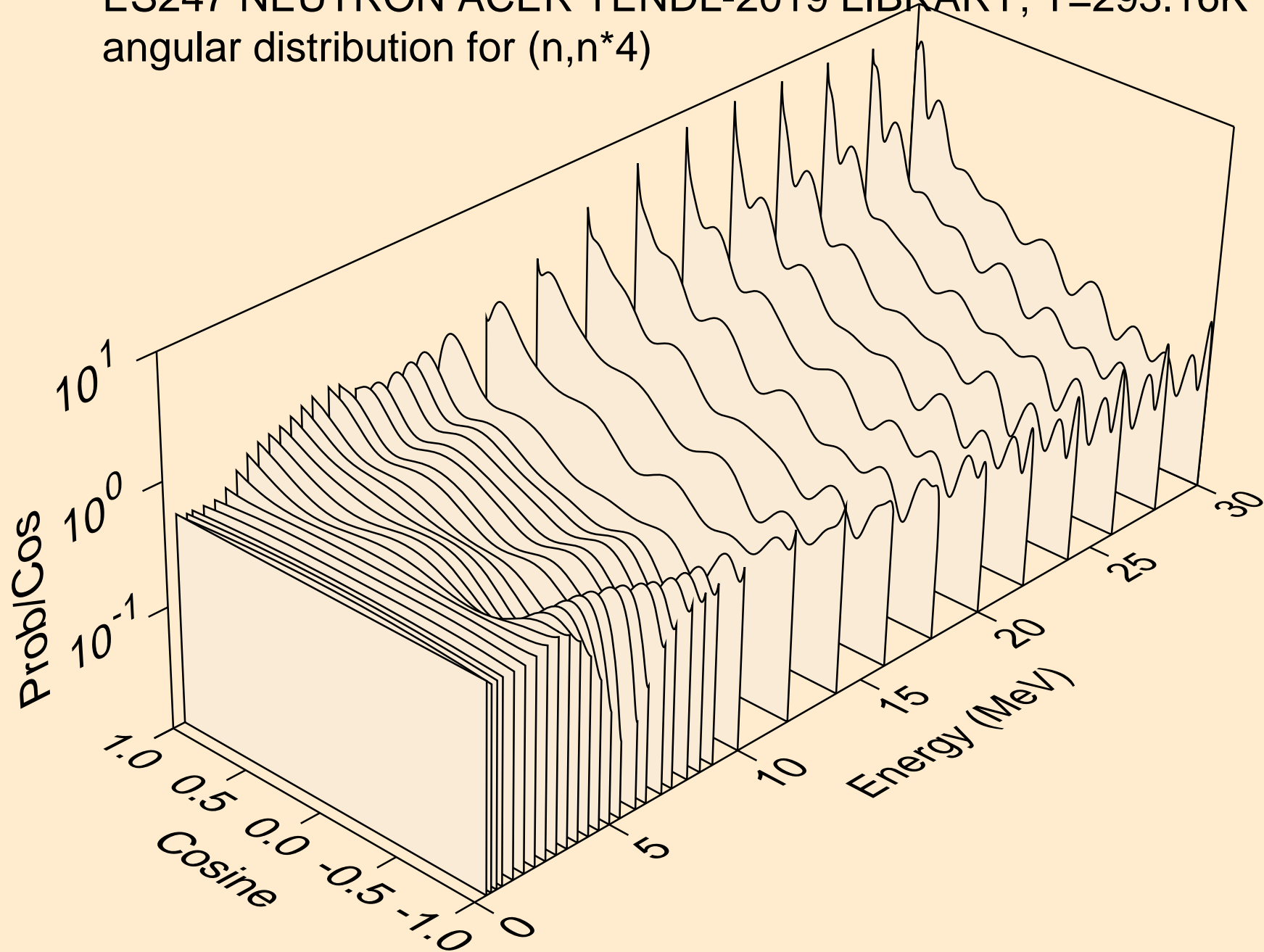
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angular distribution for (n,n\*2)



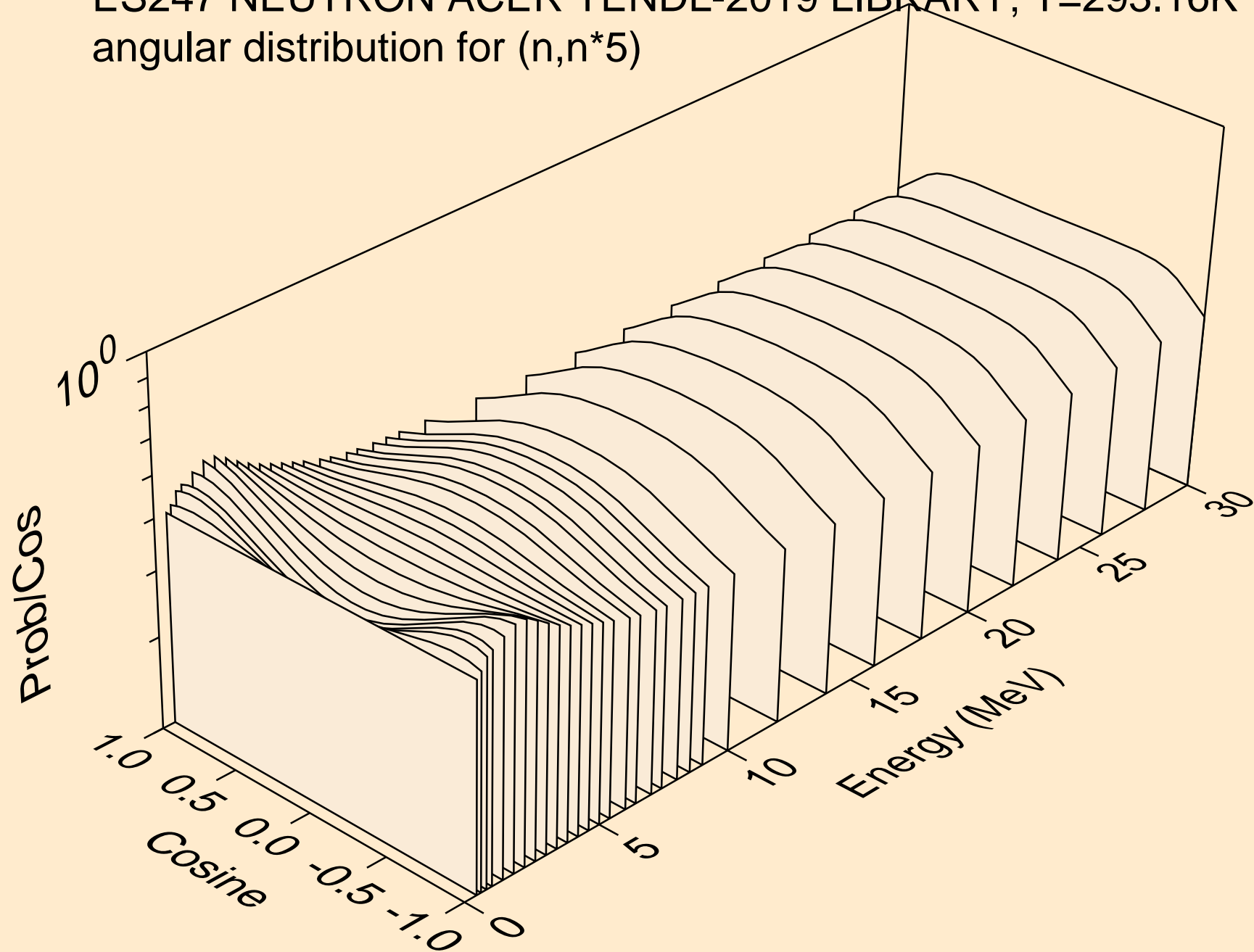
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*3)



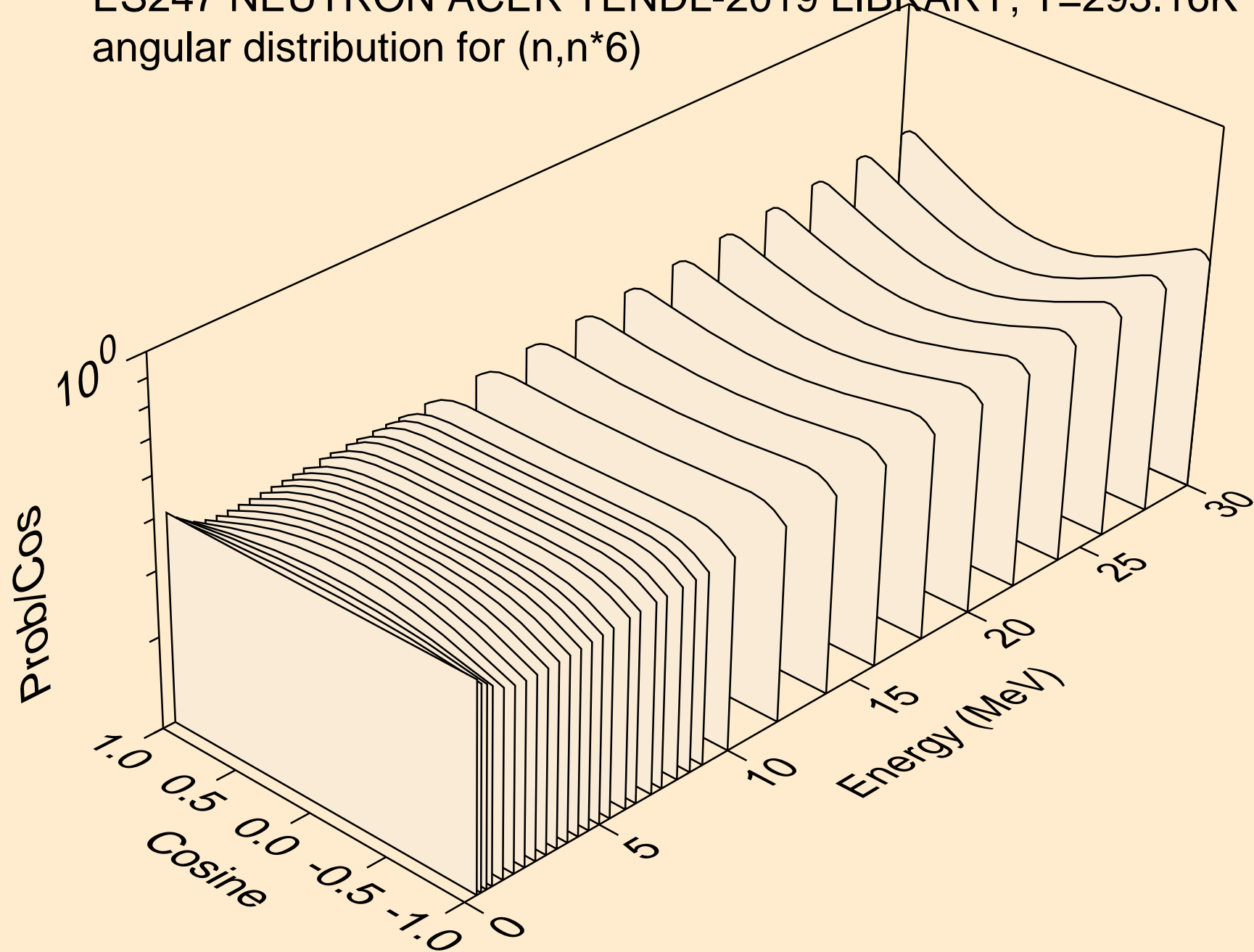
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angular distribution for (n,n\*4)



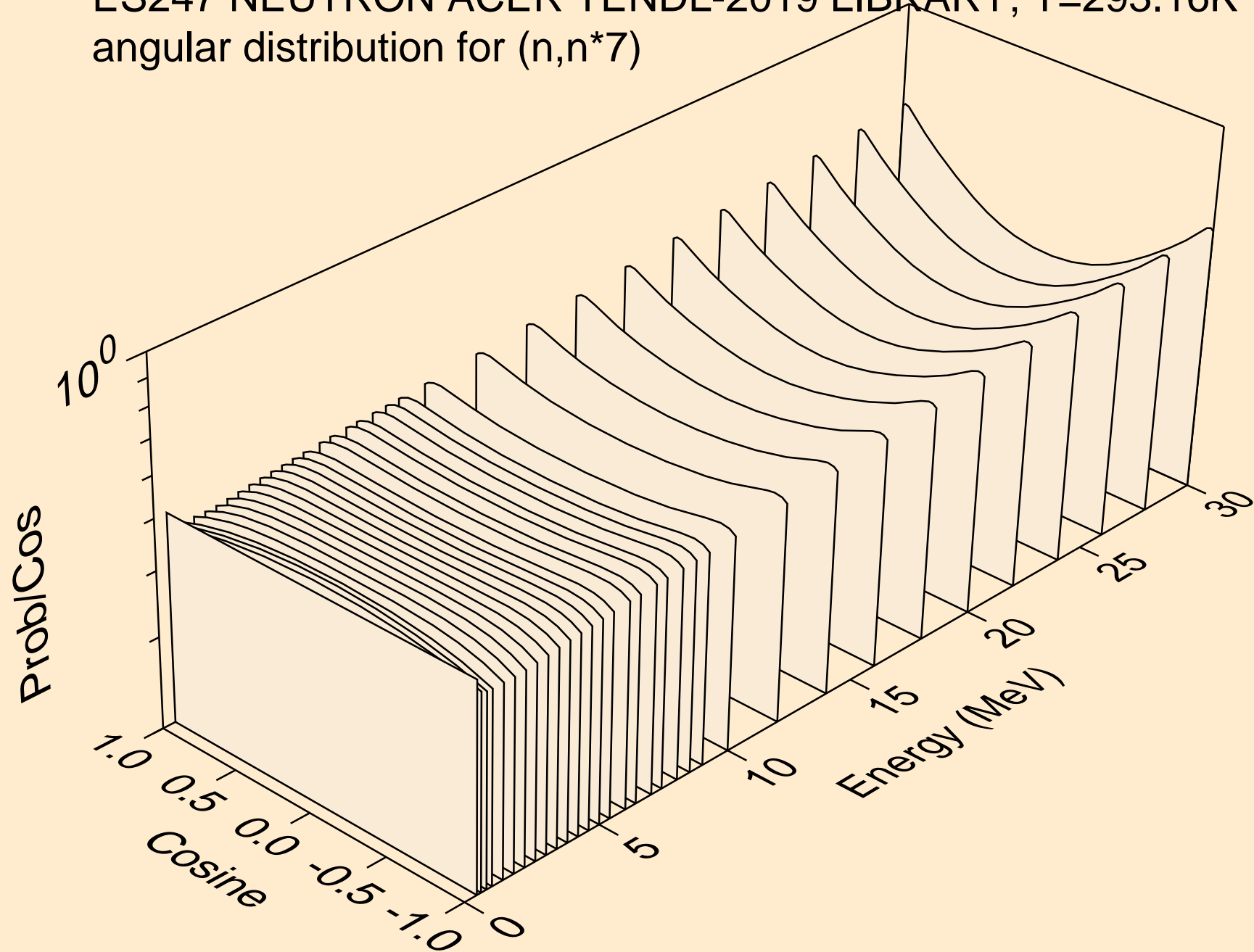
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angular distribution for (n,n\*5)



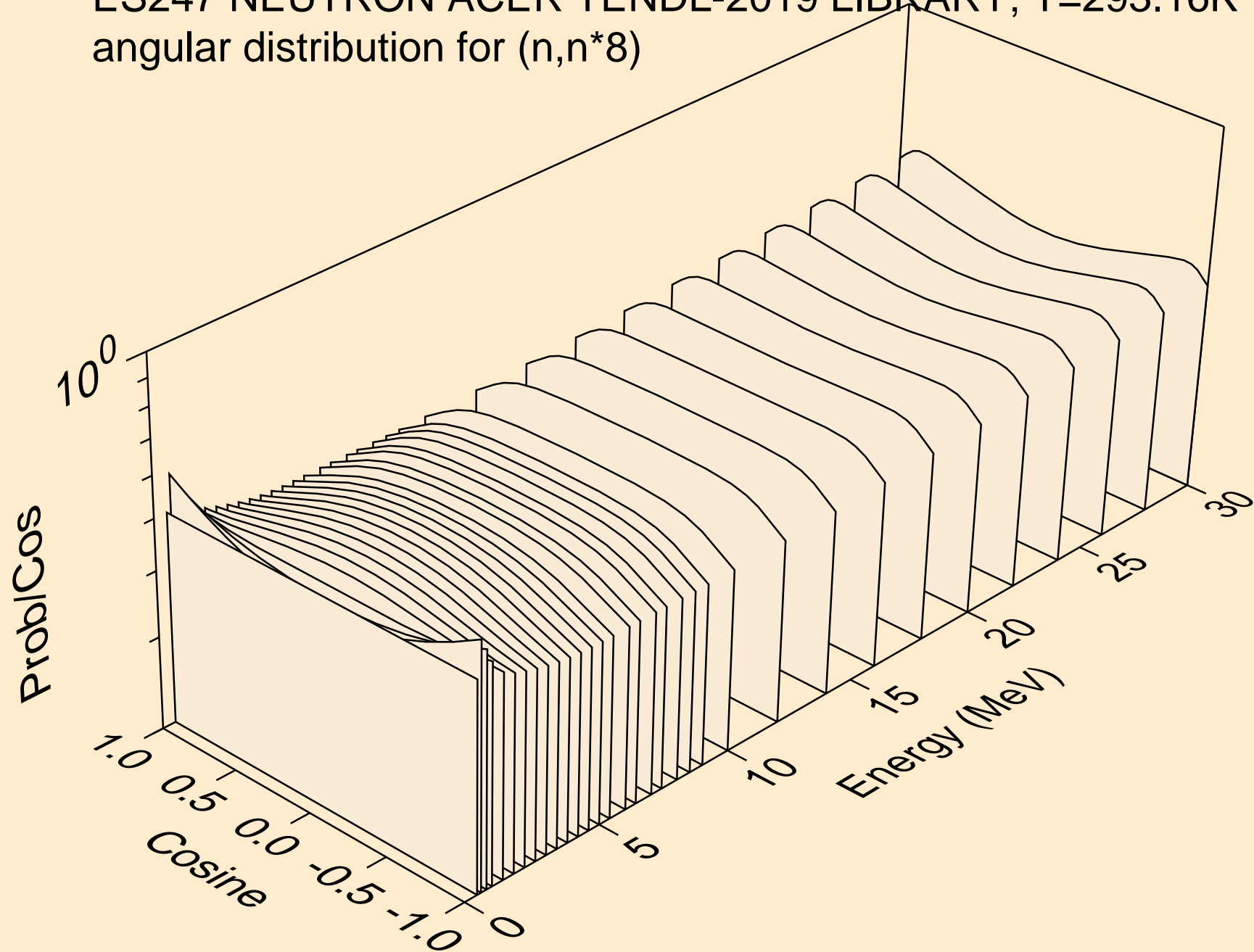
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angular distribution for (n,n\*6)



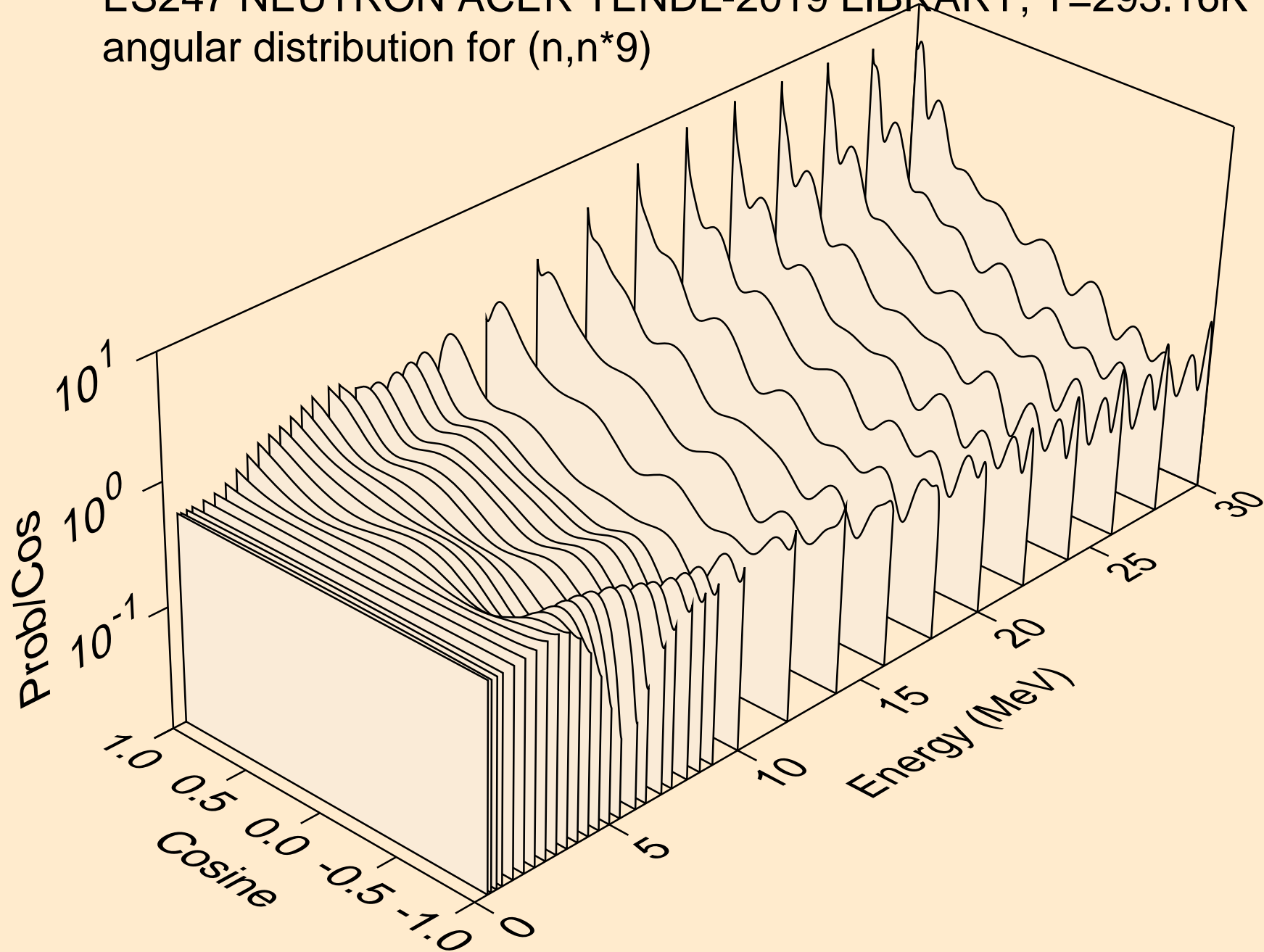
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angular distribution for (n,n\*7)



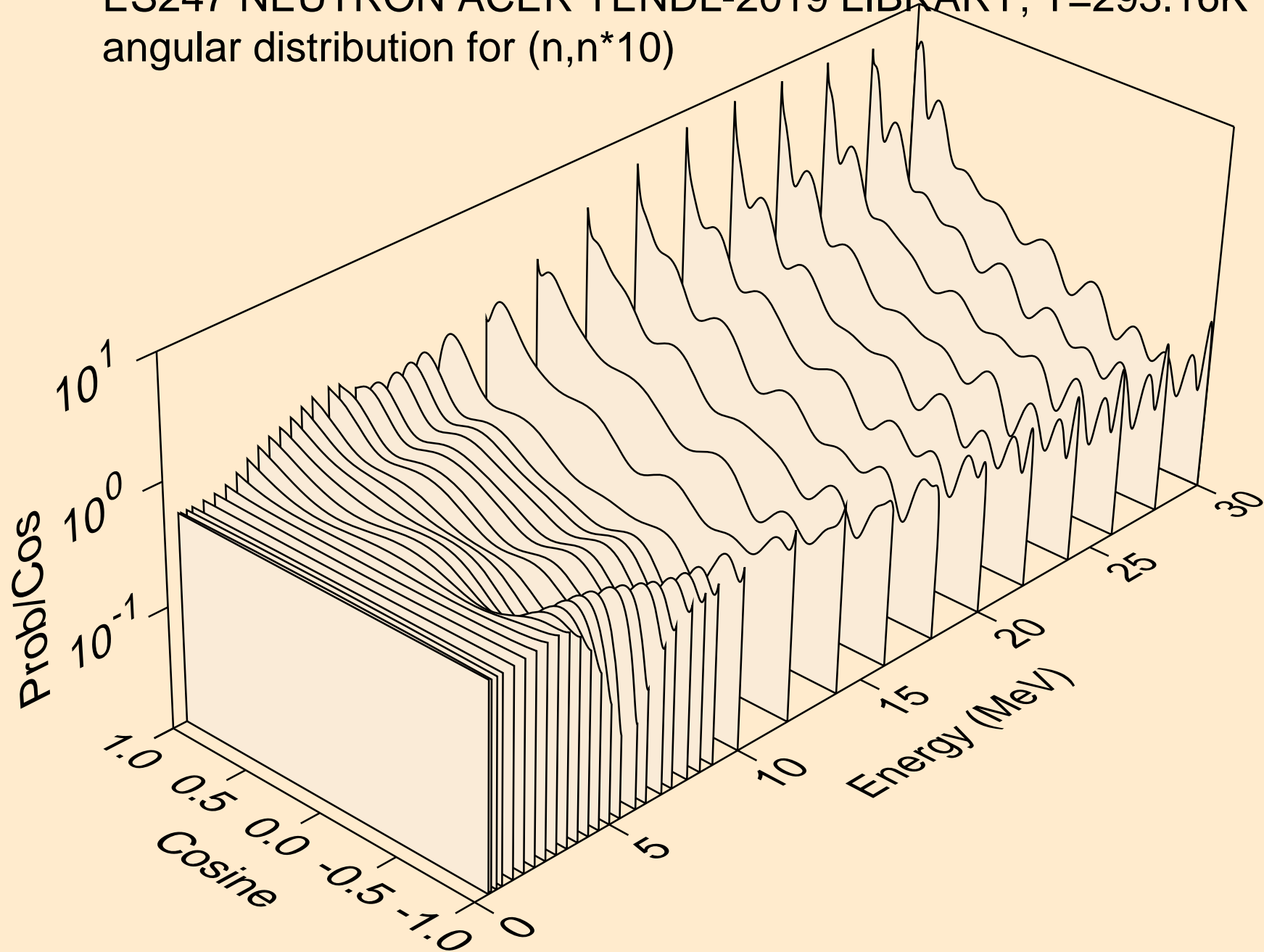
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angular distribution for (n,n\*8)



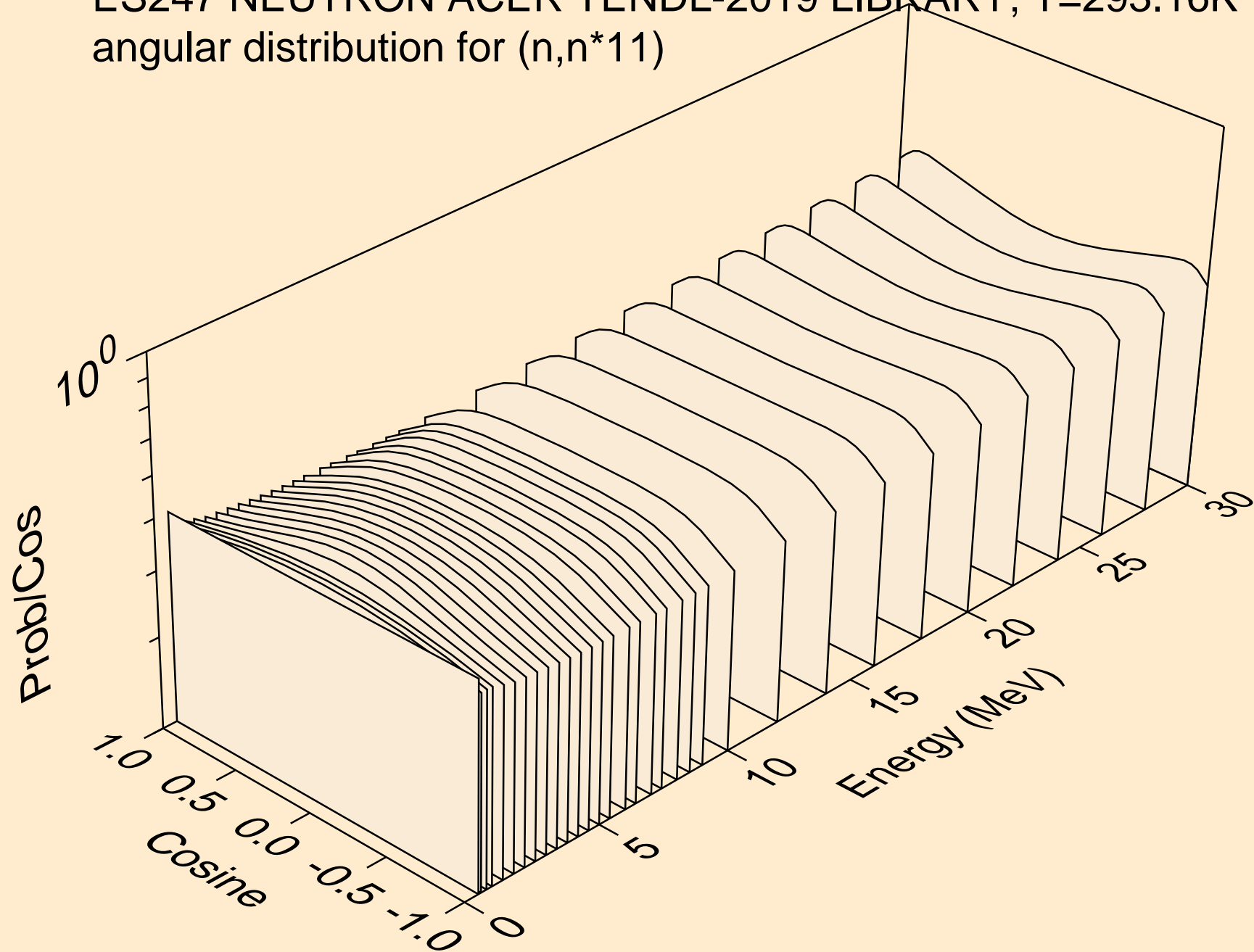
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angular distribution for (n,n\*9)



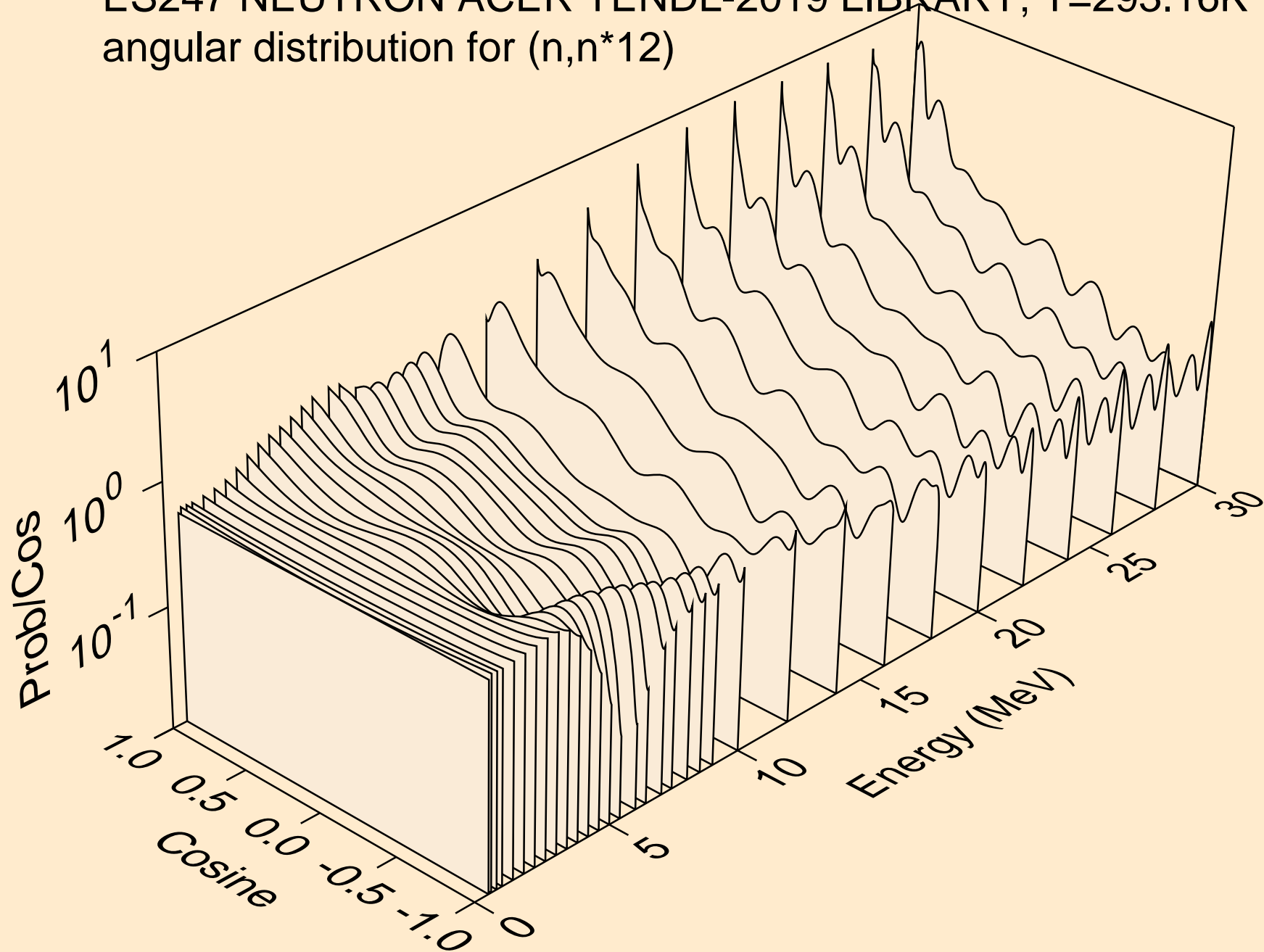
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angular distribution for (n,n\*10)



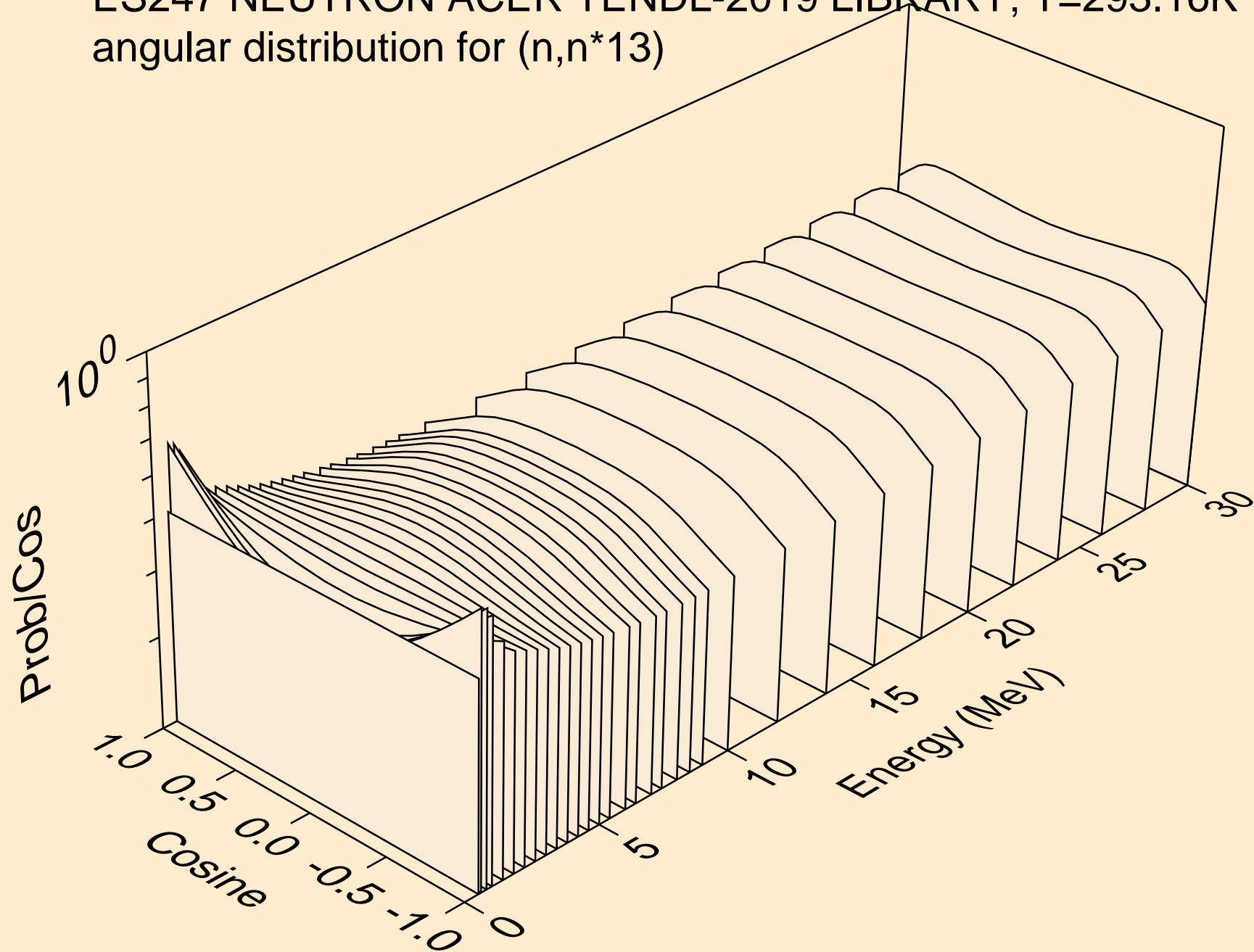
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angular distribution for (n,n\*11)



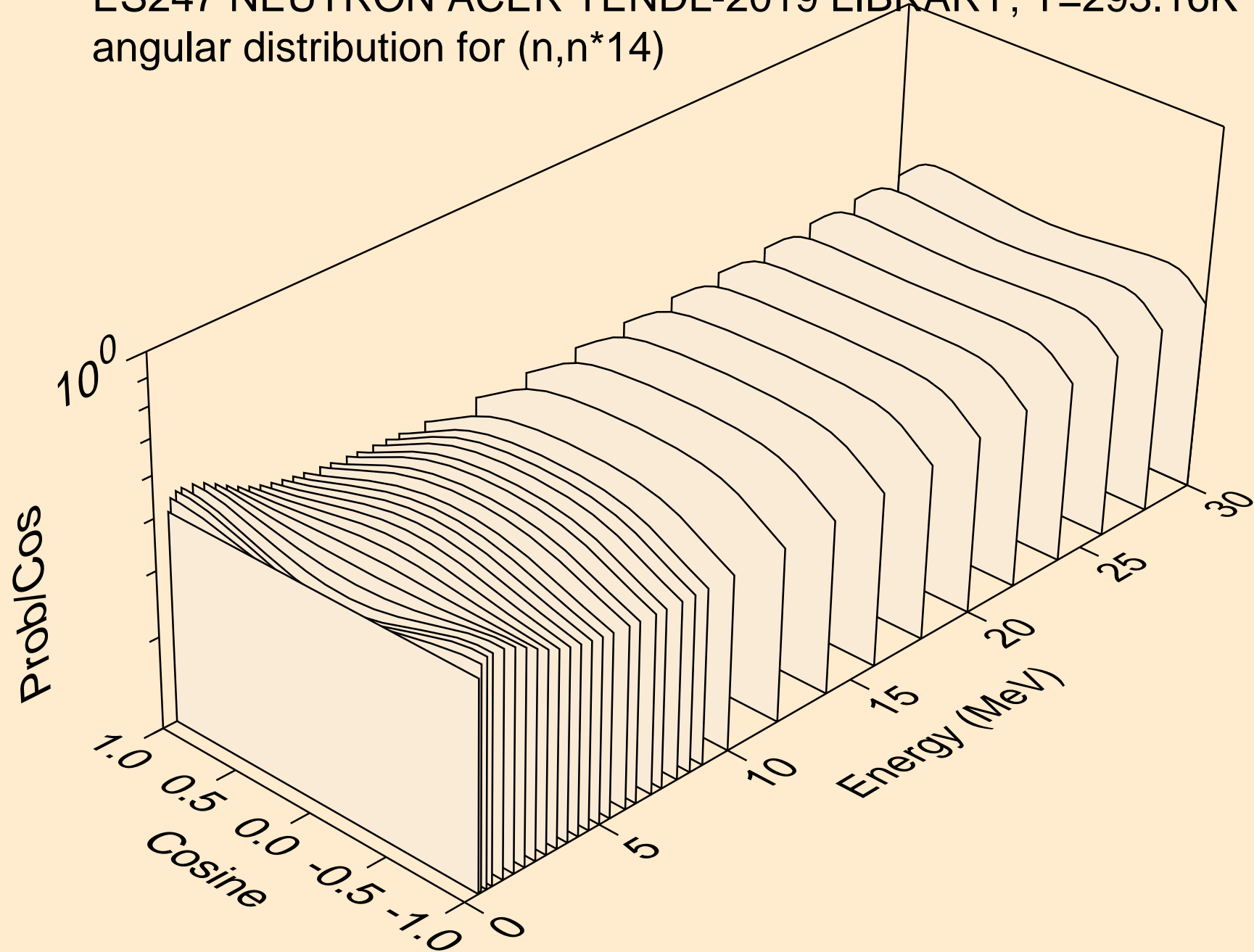
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angular distribution for (n,n\*12)



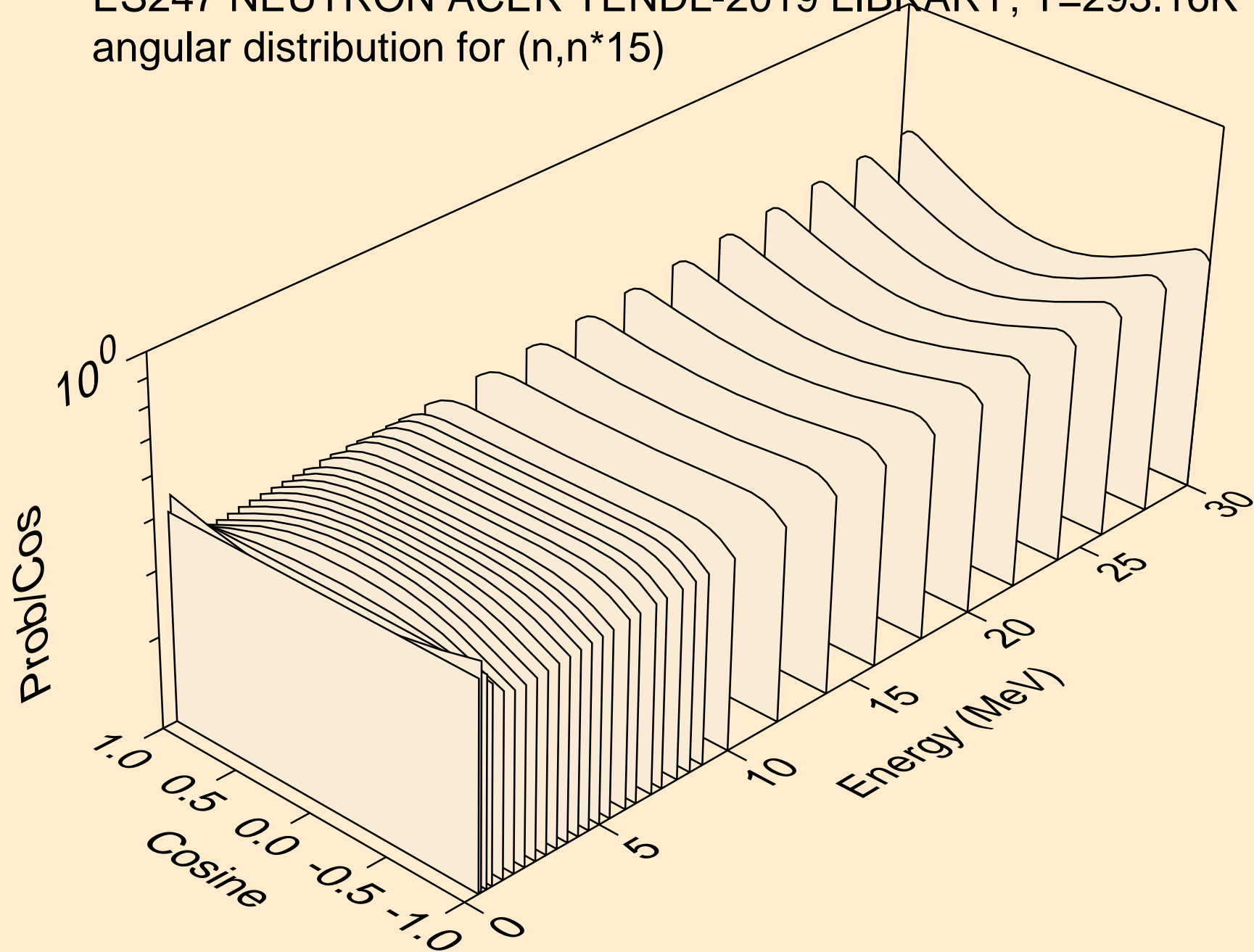
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angular distribution for (n,n\*13)



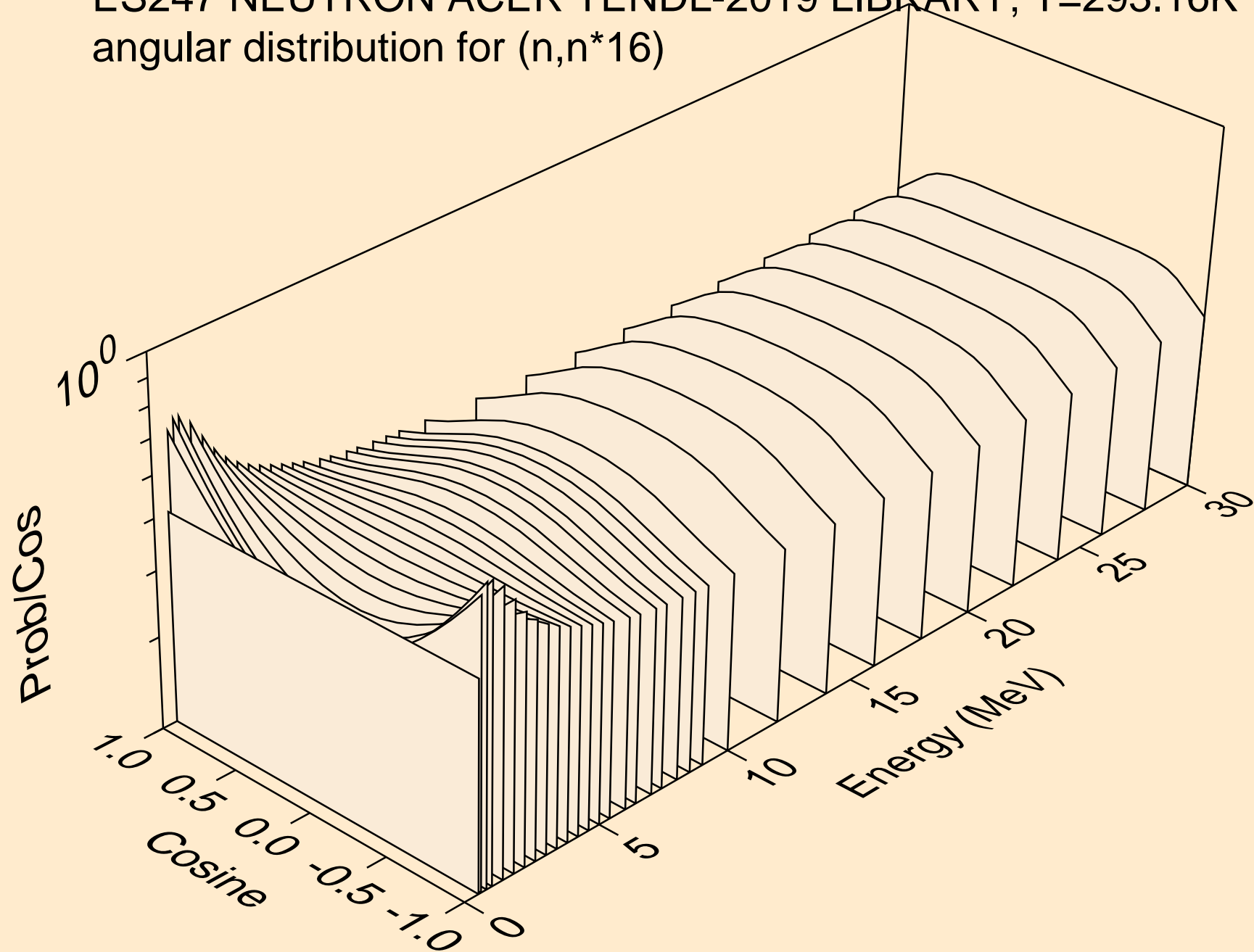
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angular distribution for (n,n\*14)



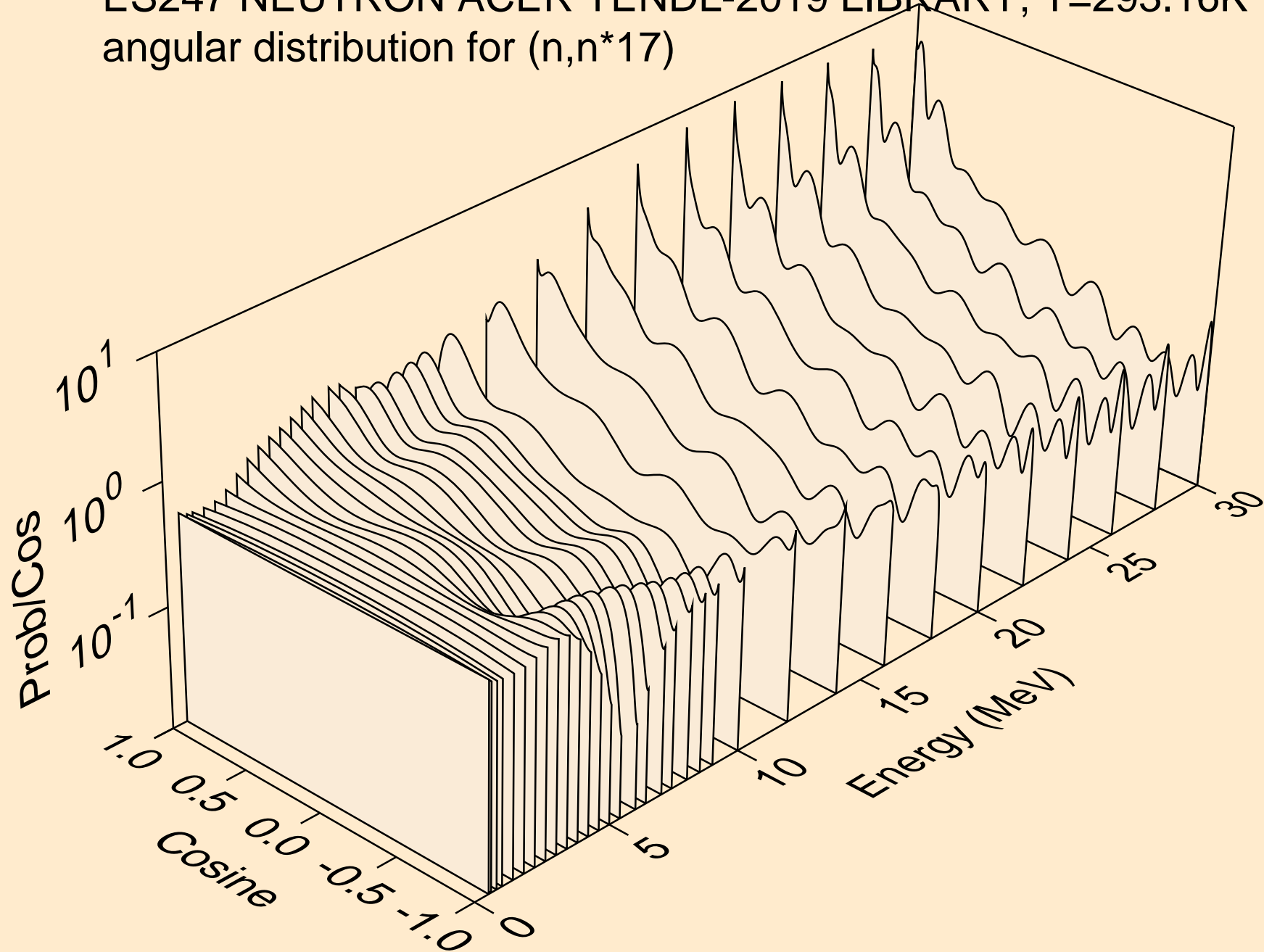
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angular distribution for (n,n\*15)



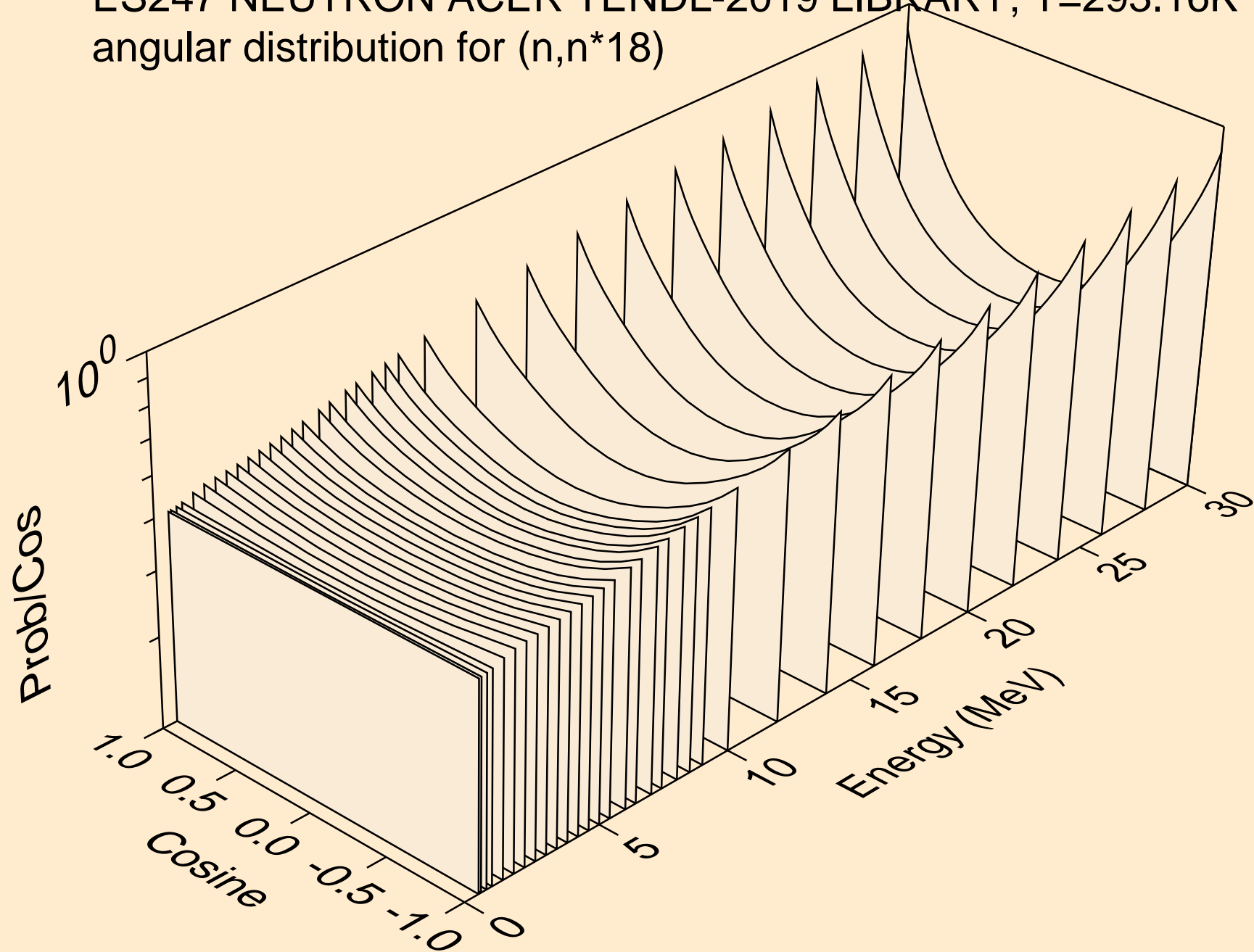
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angular distribution for (n,n\*16)



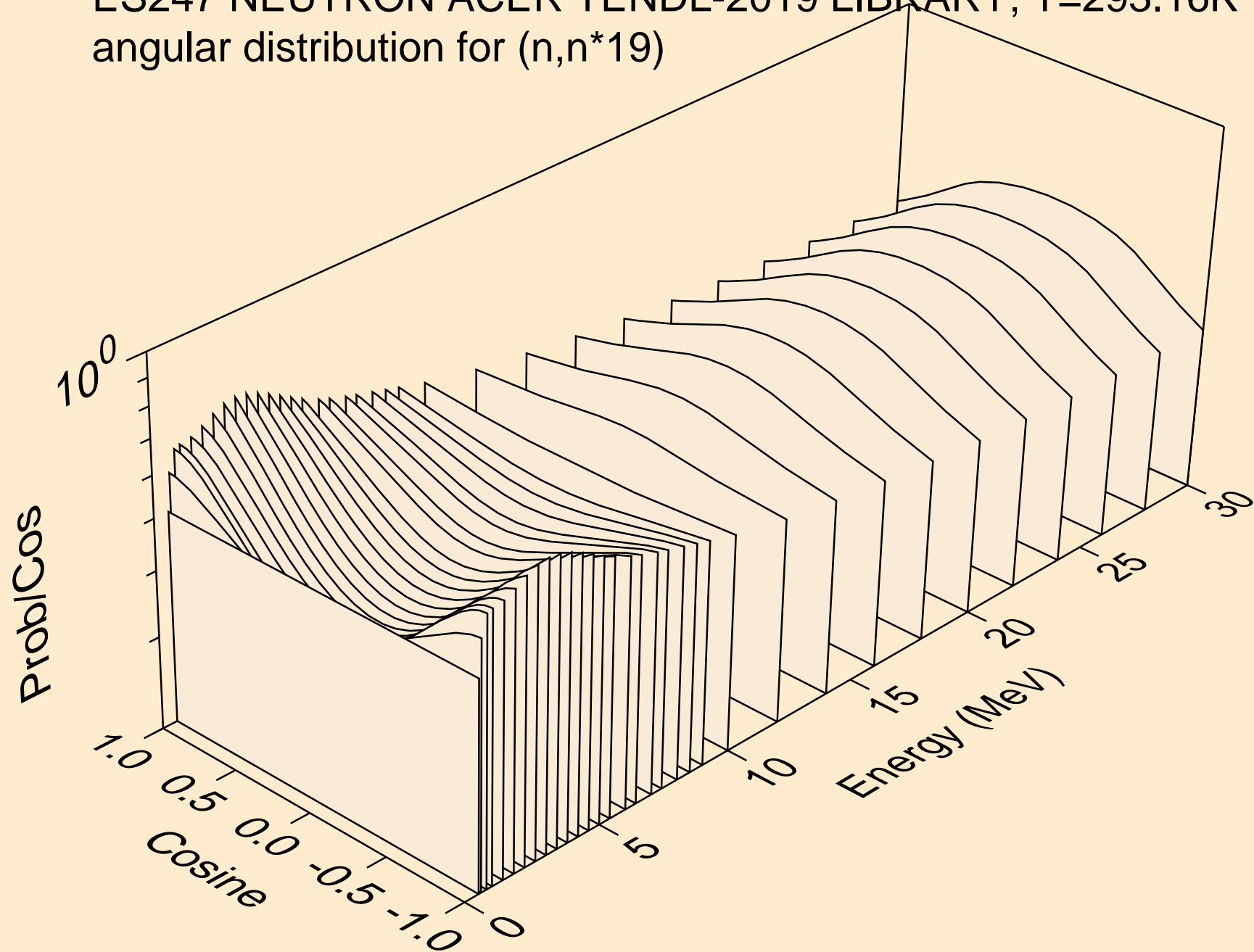
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angular distribution for (n,n\*17)



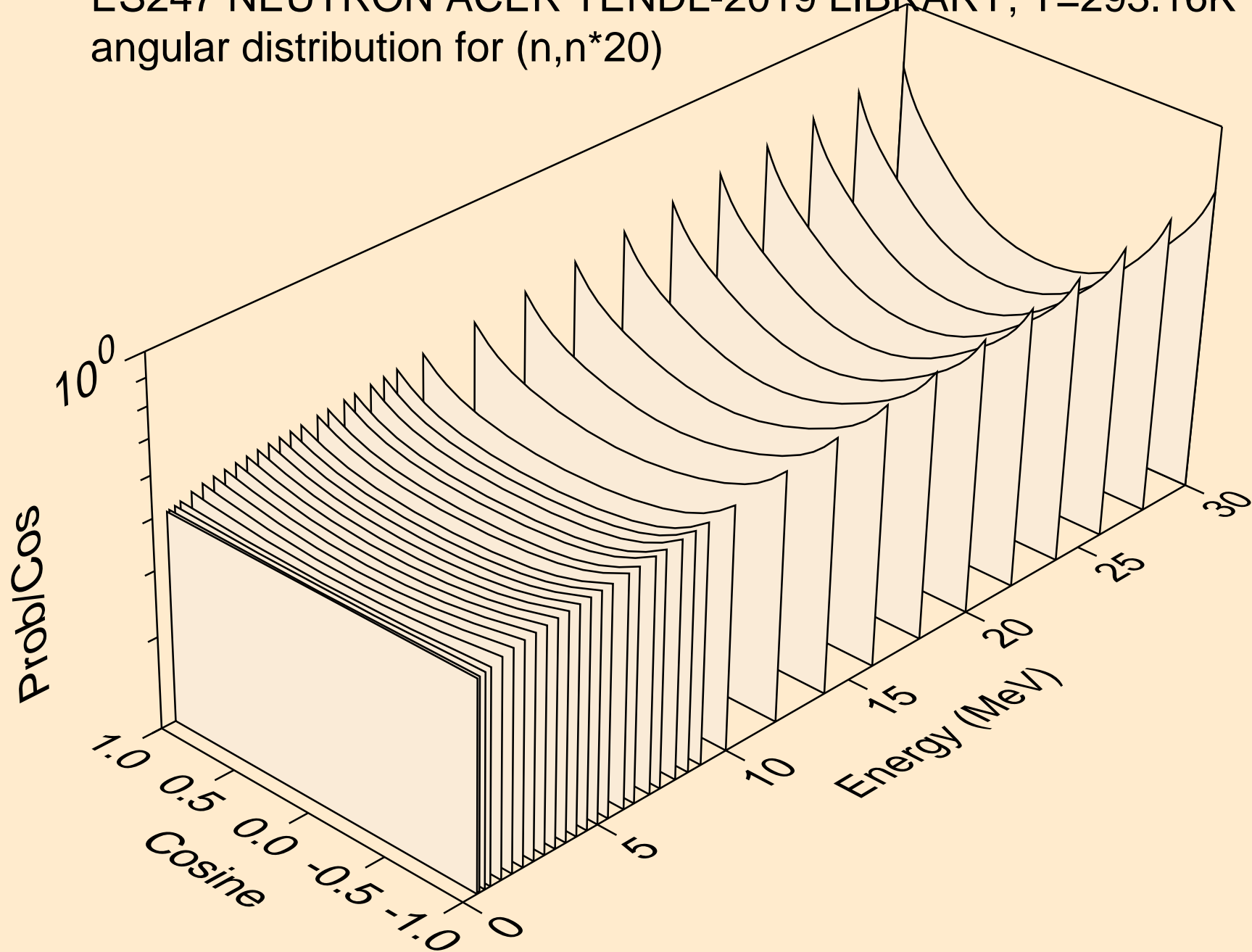
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angular distribution for (n,n\*18)



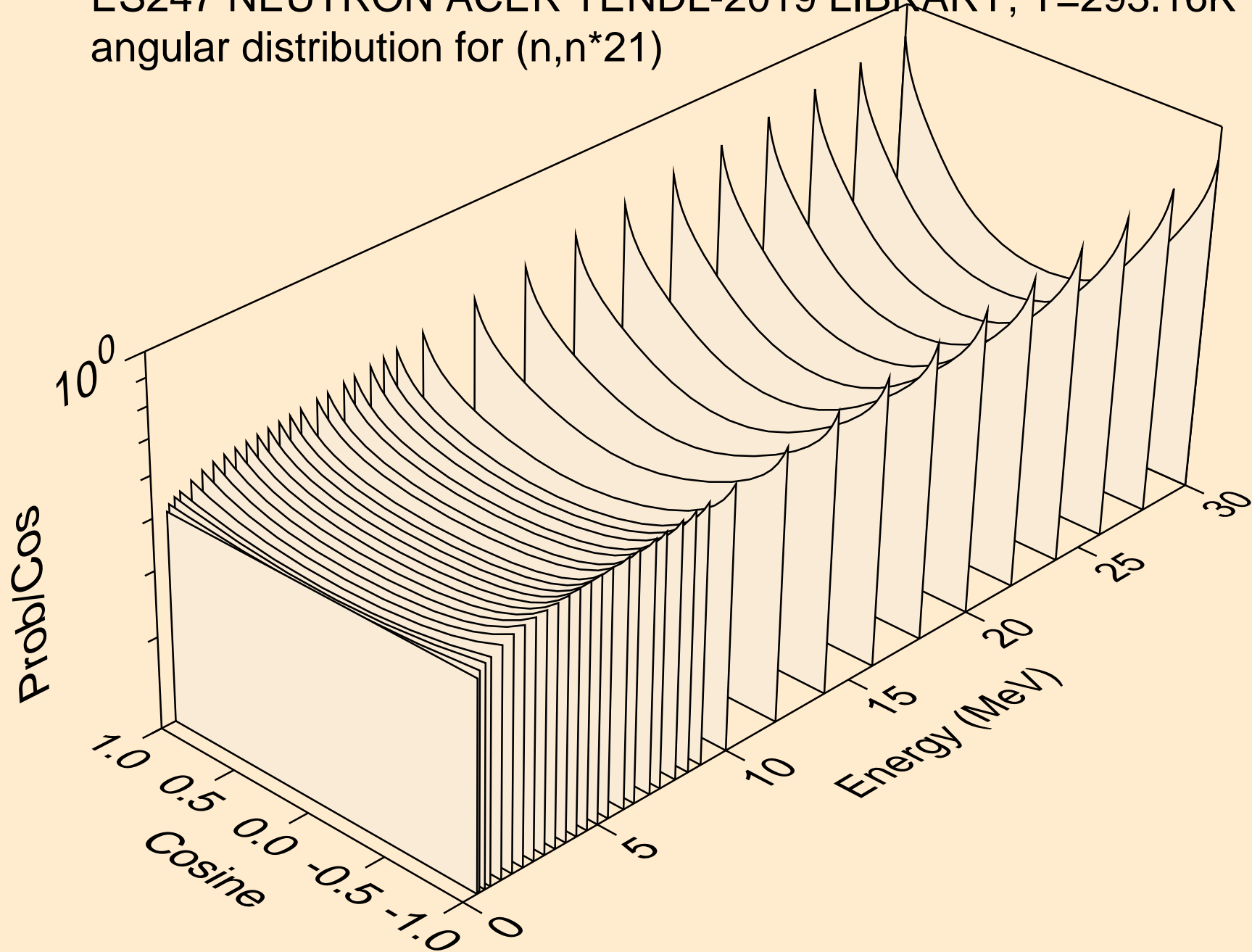
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angular distribution for (n,n\*19)



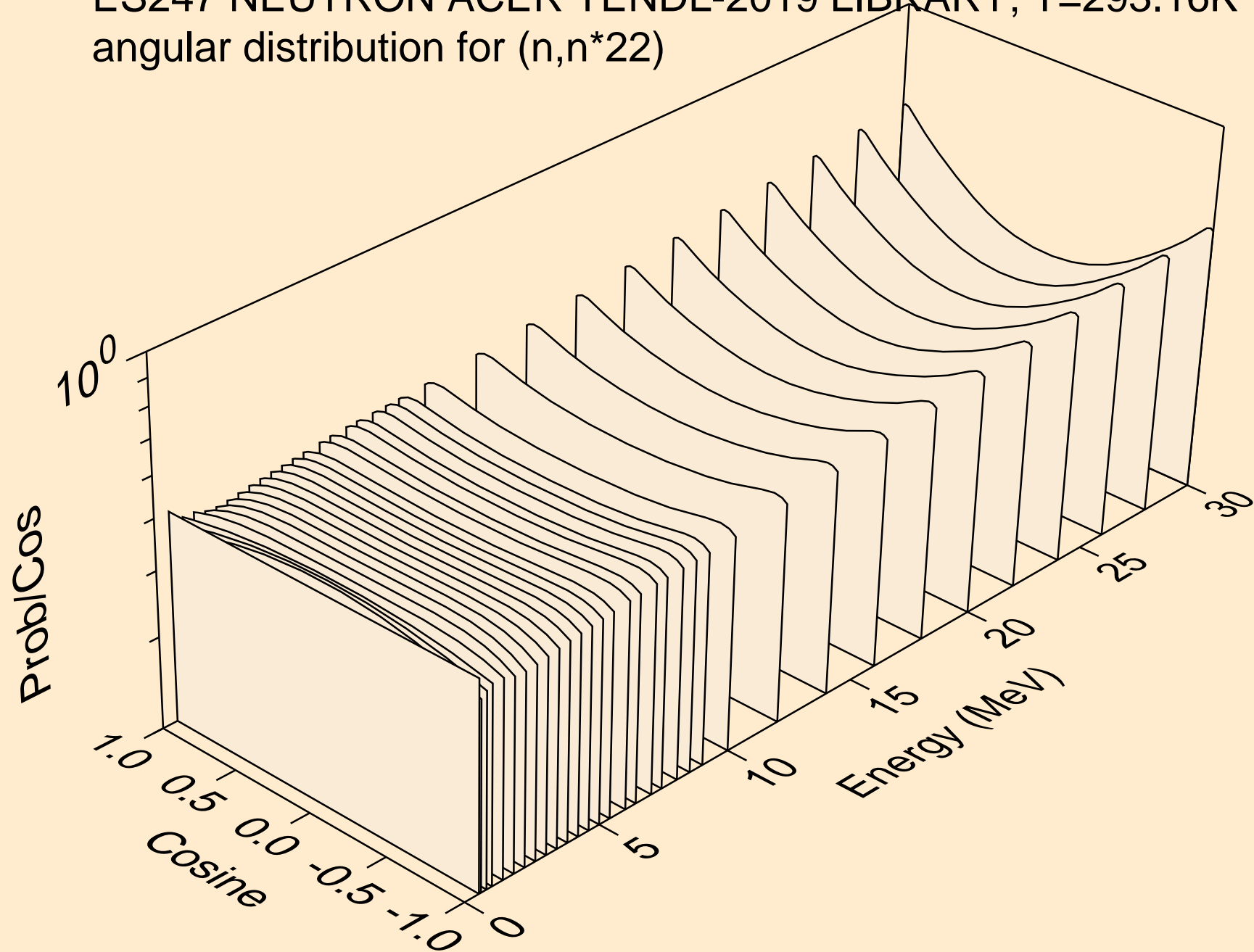
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angular distribution for (n,n\*20)



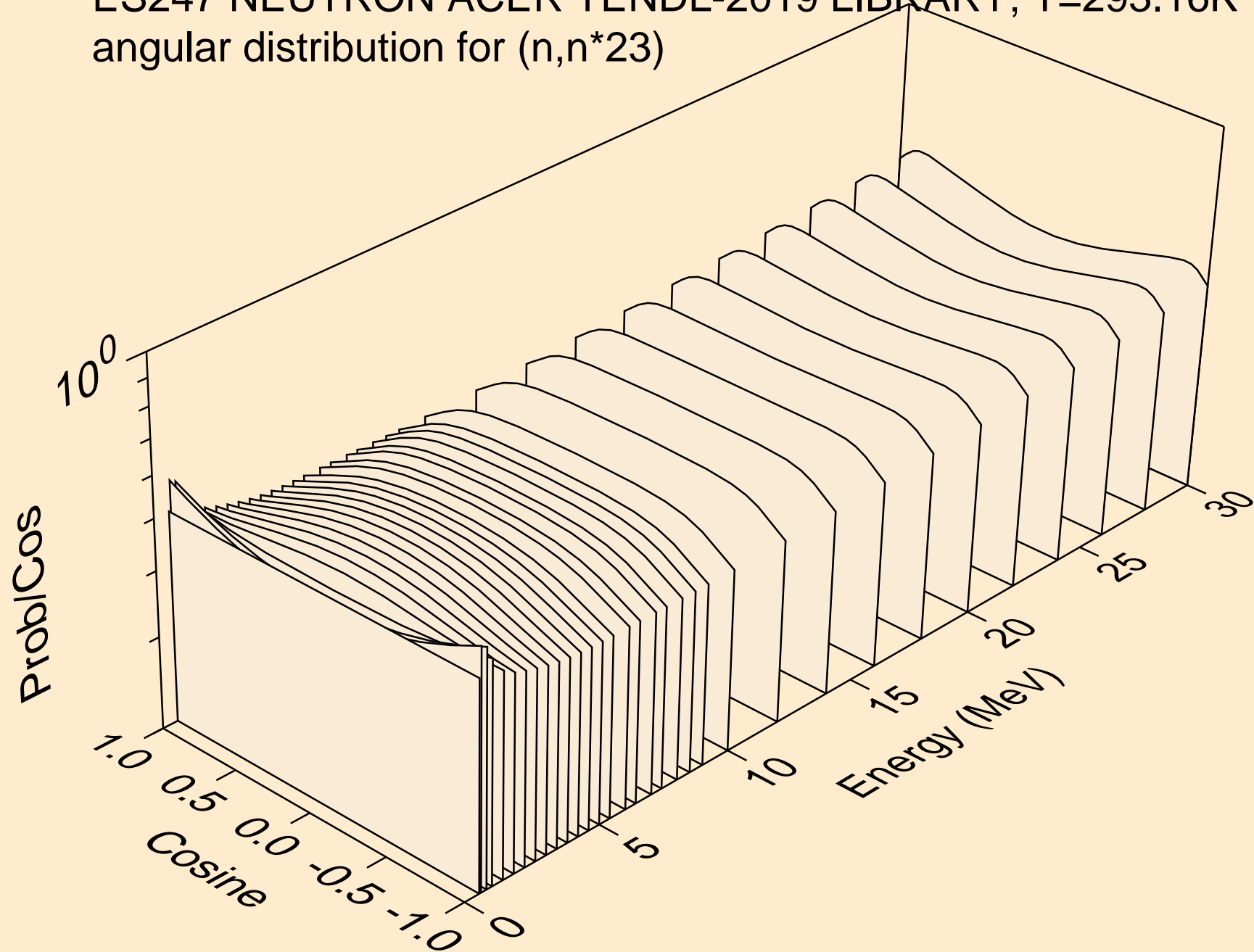
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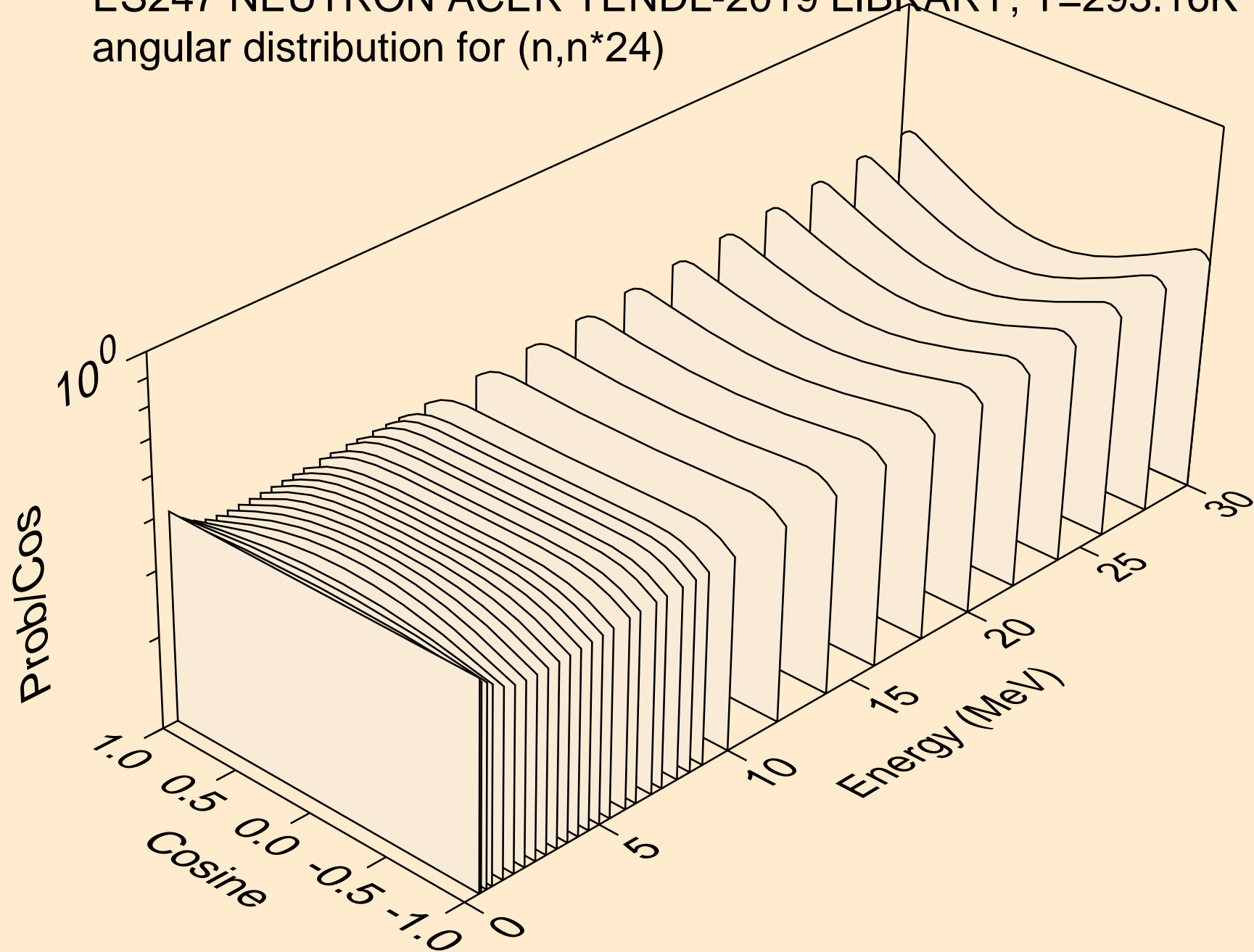
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angular distribution for (n,n\*22)



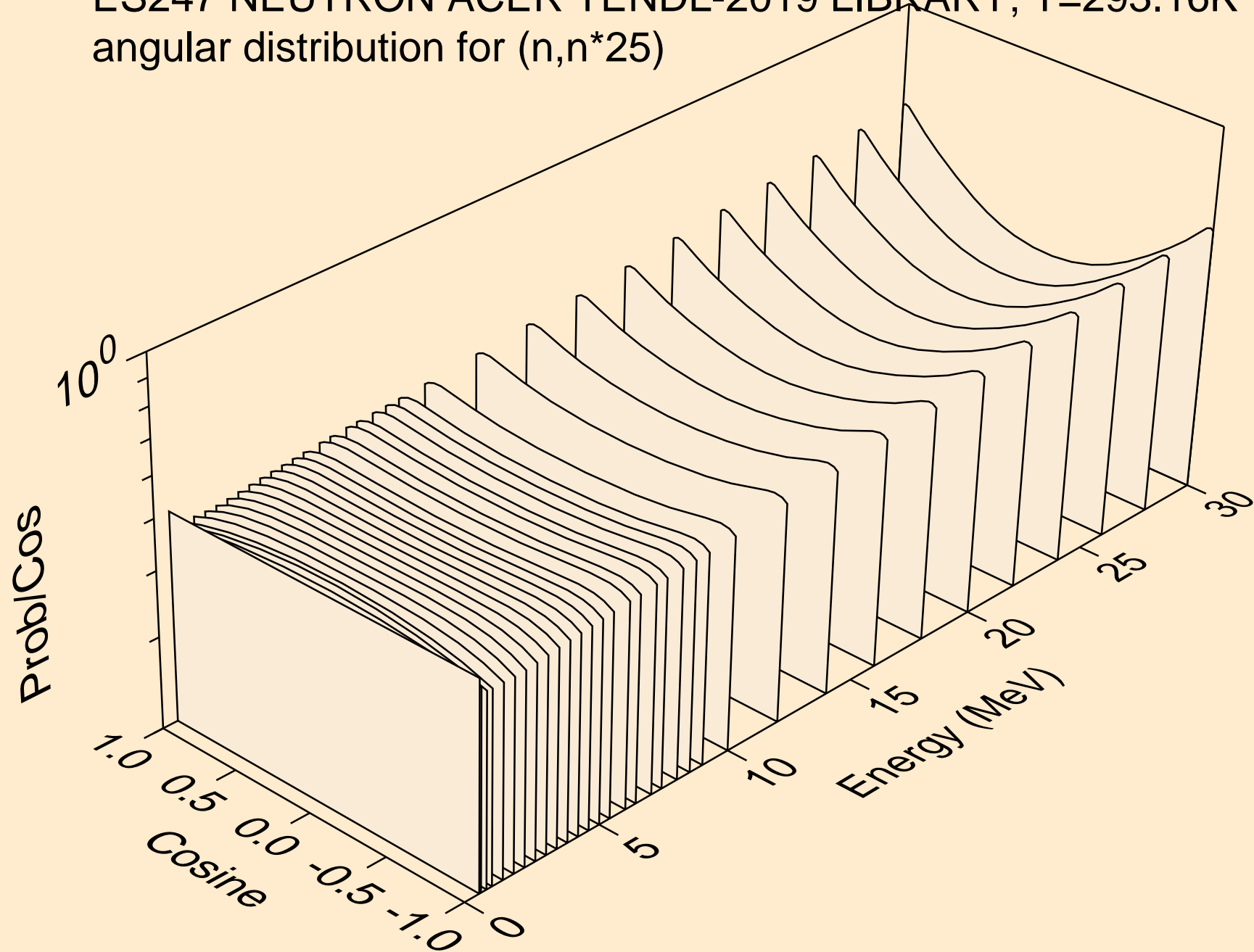
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angular distribution for (n,n\*23)



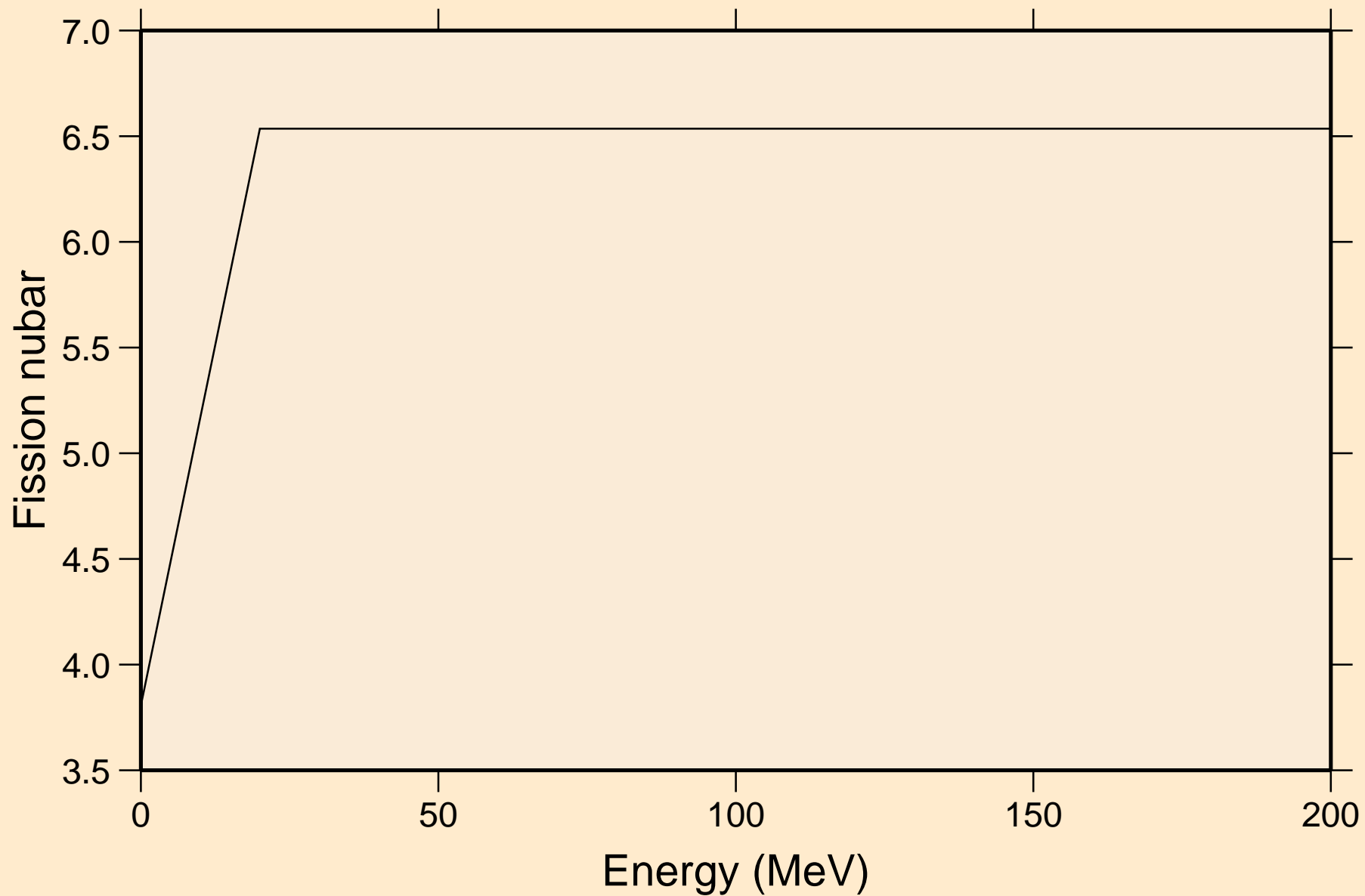
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angular distribution for (n,n\*24)



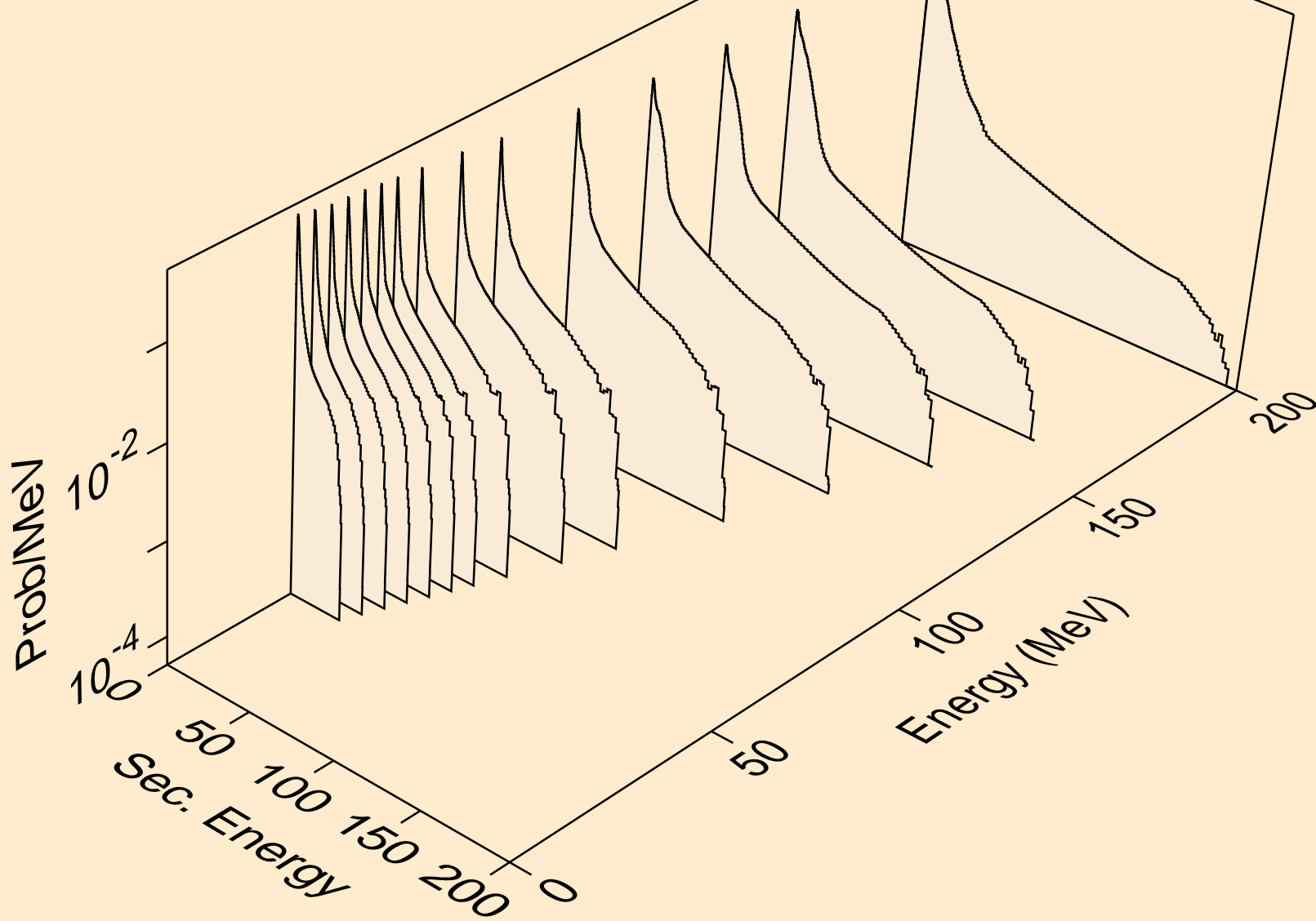
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angular distribution for (n,n\*25)



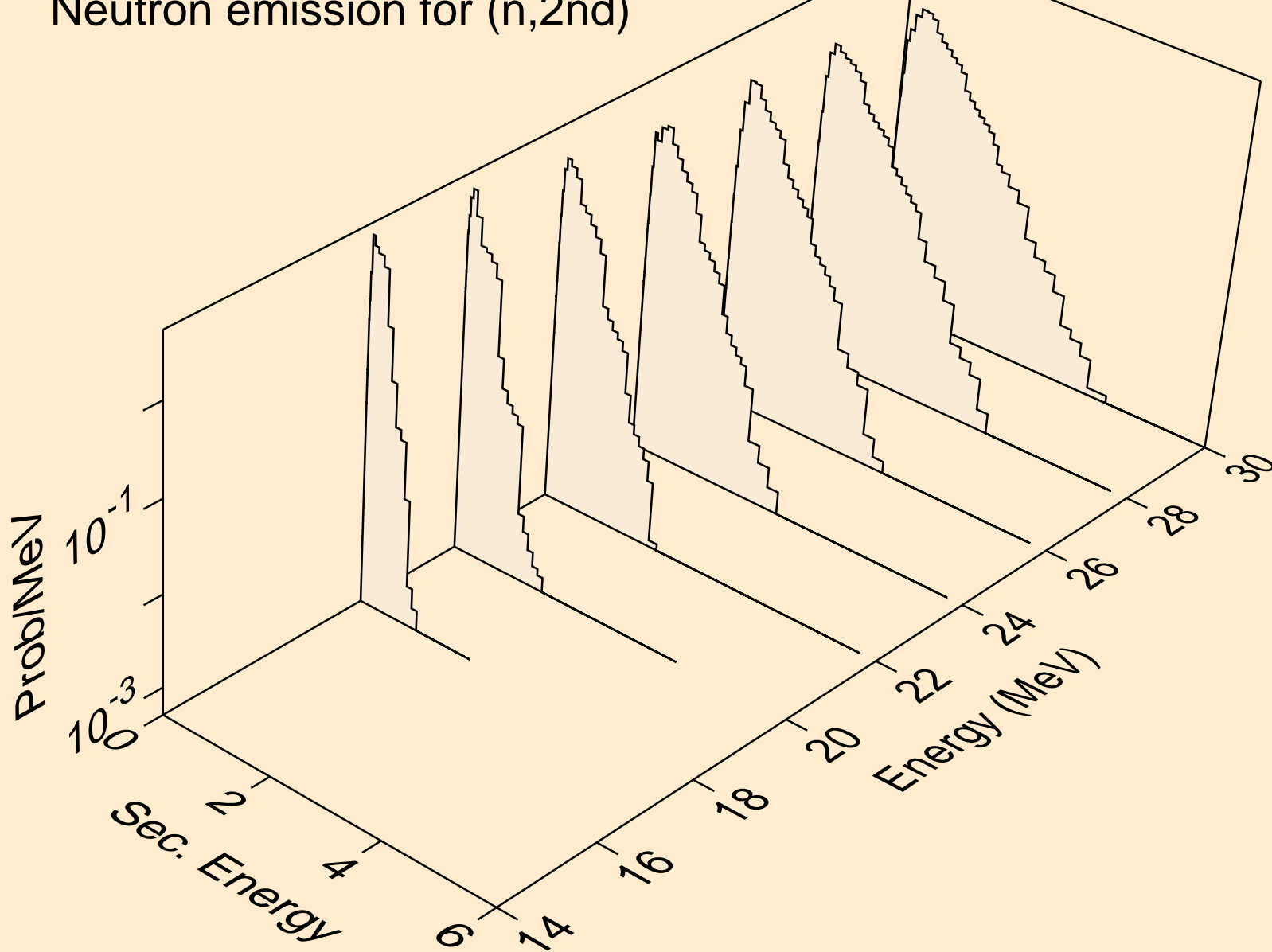
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Total fission nubar



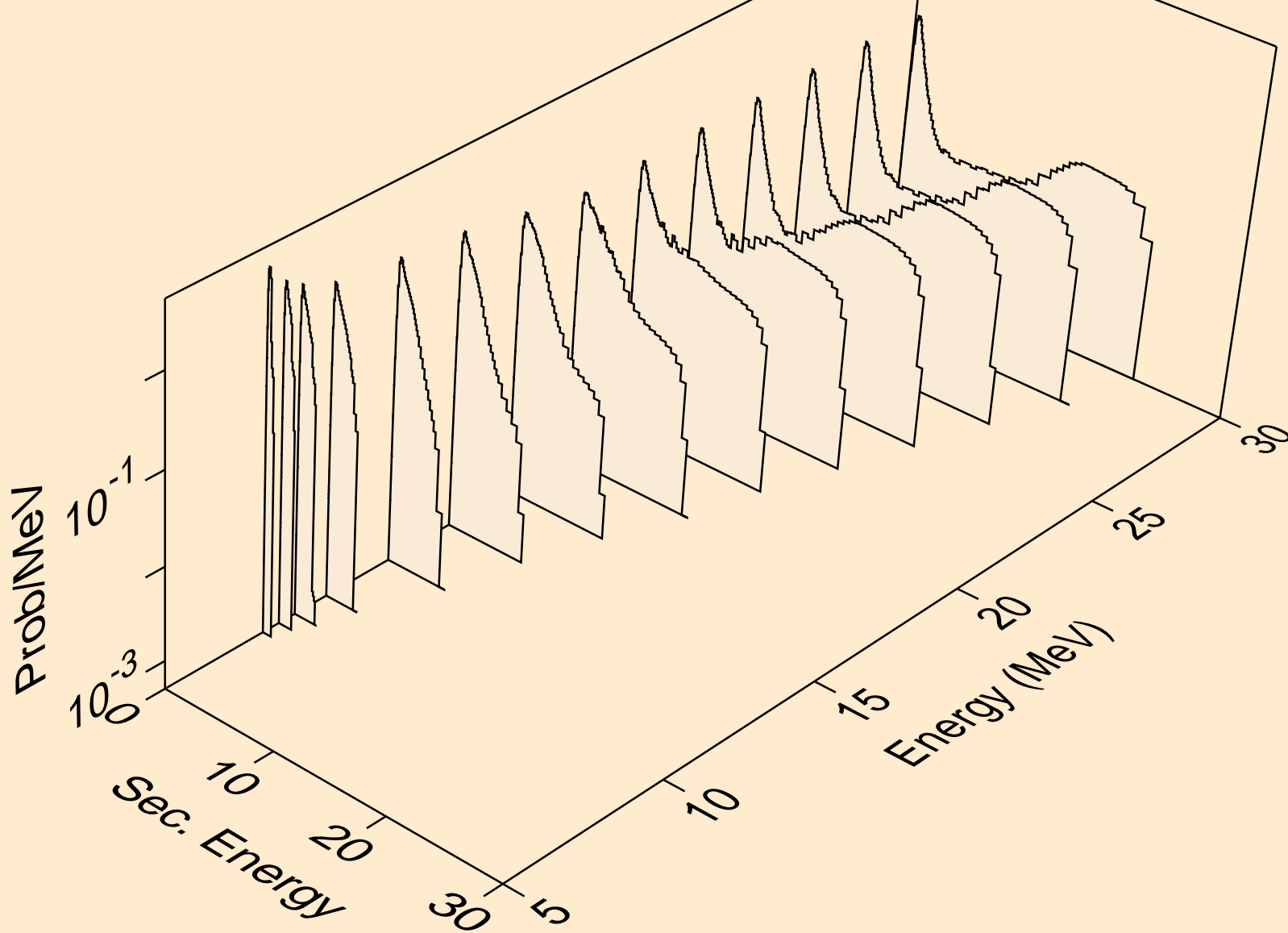
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,x)



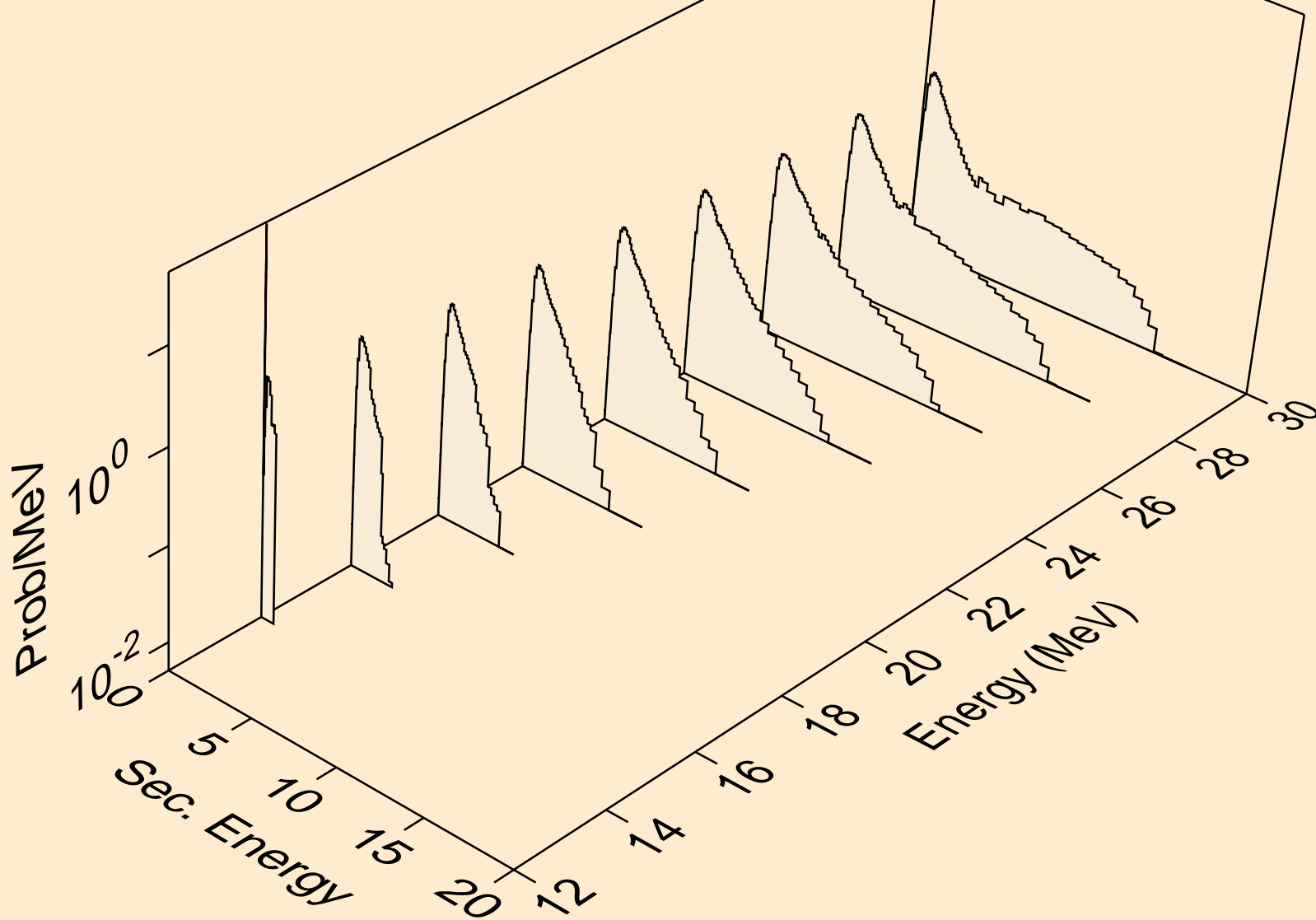
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2nd)



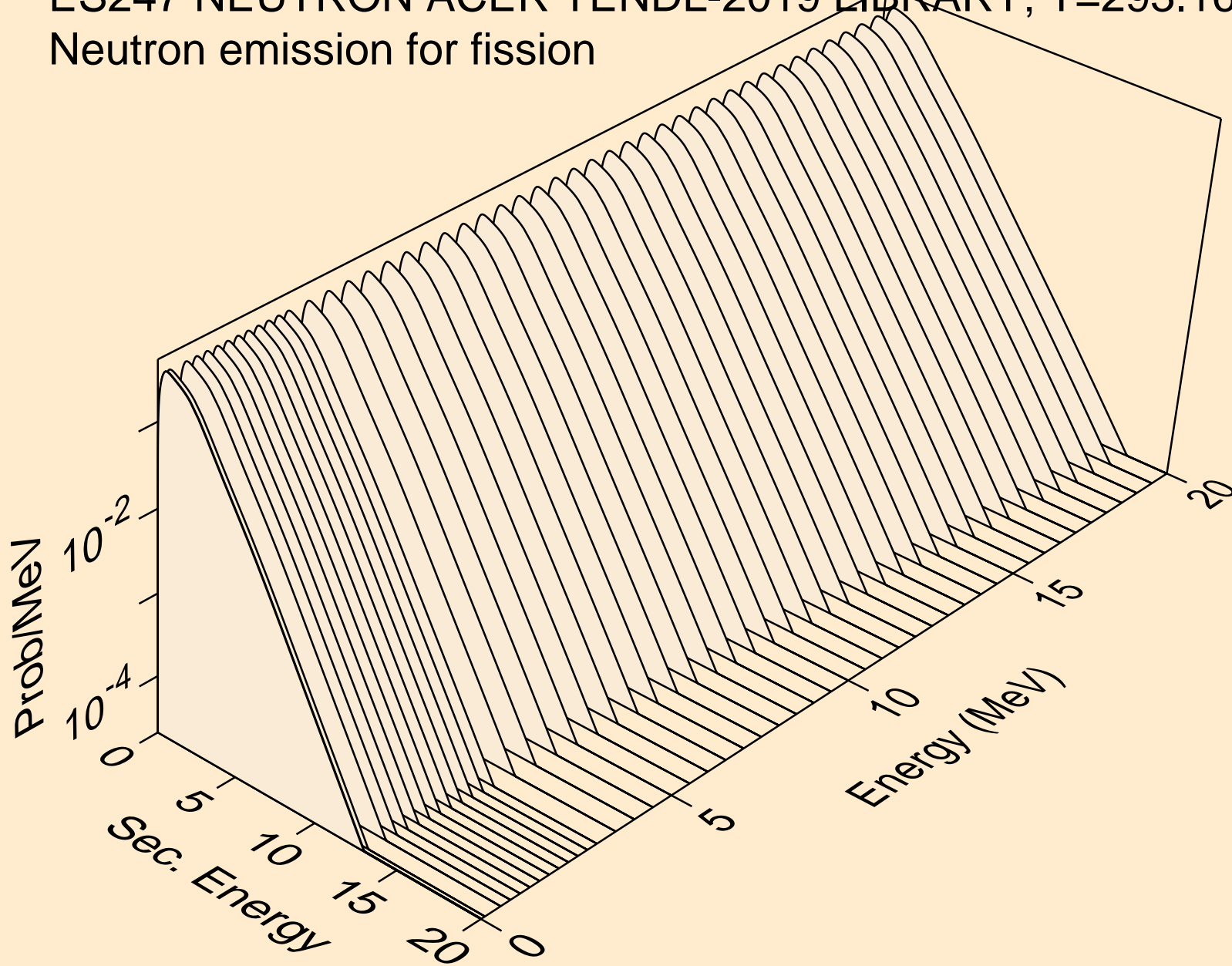
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)



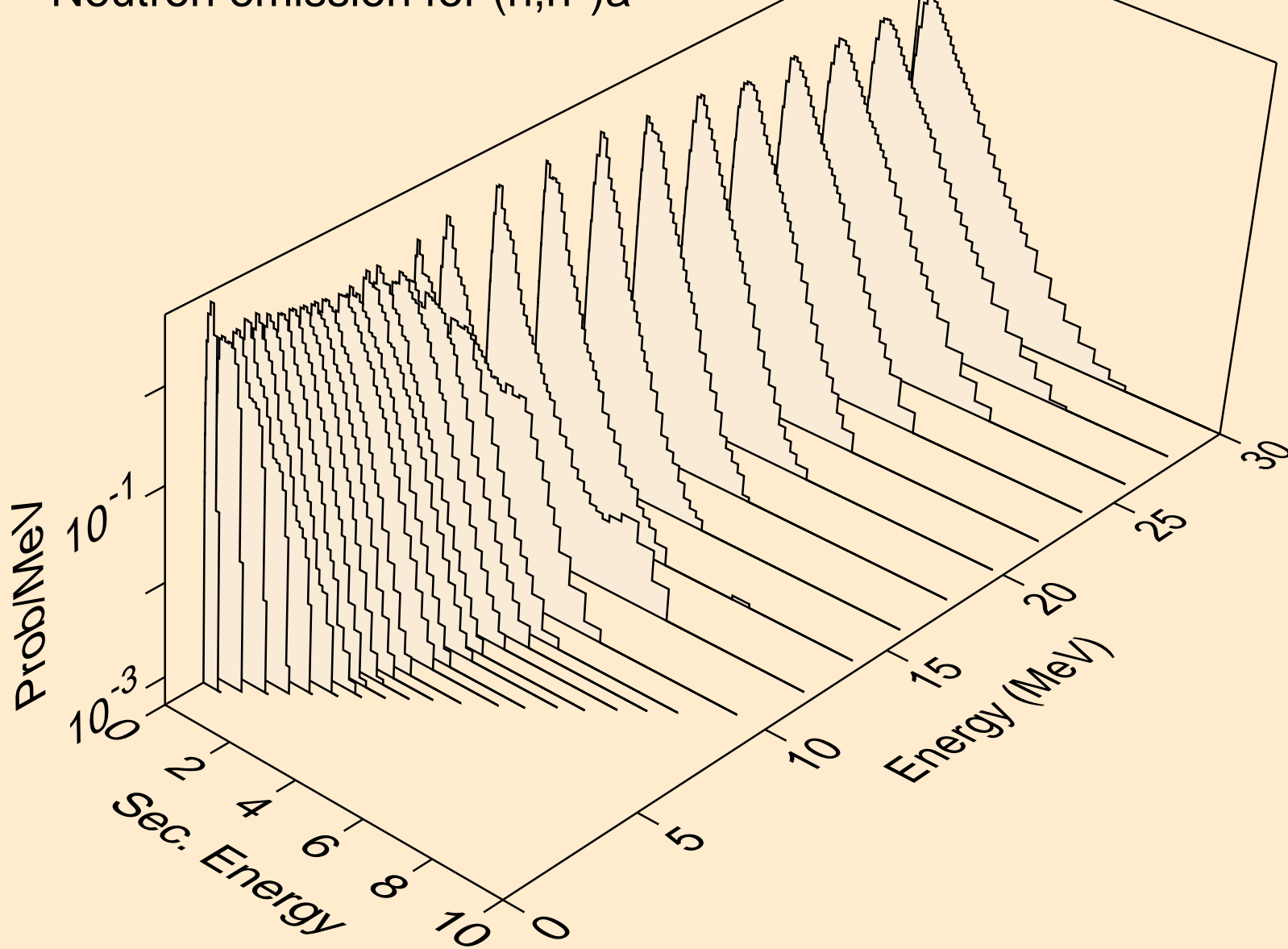
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)



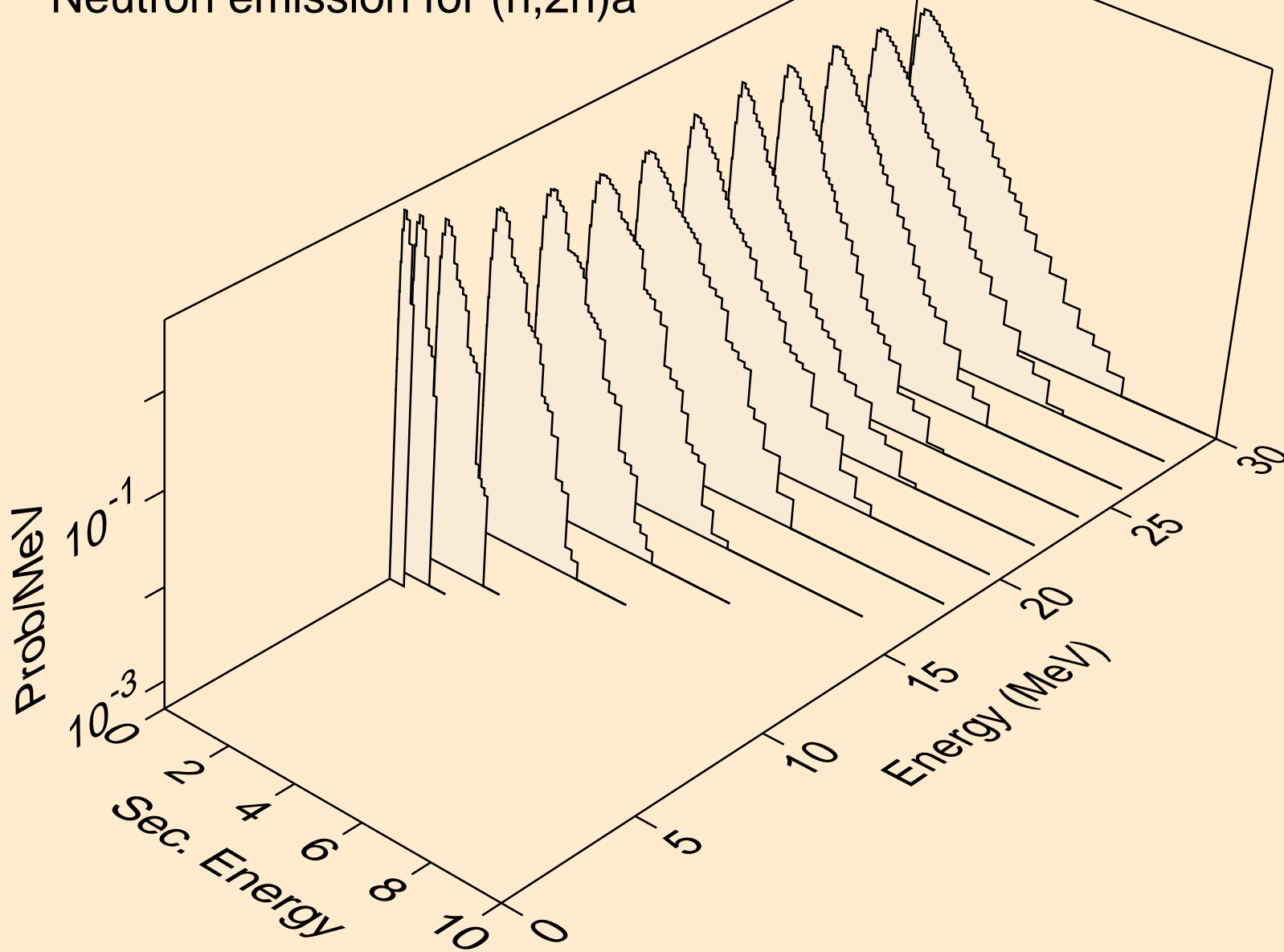
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for fission



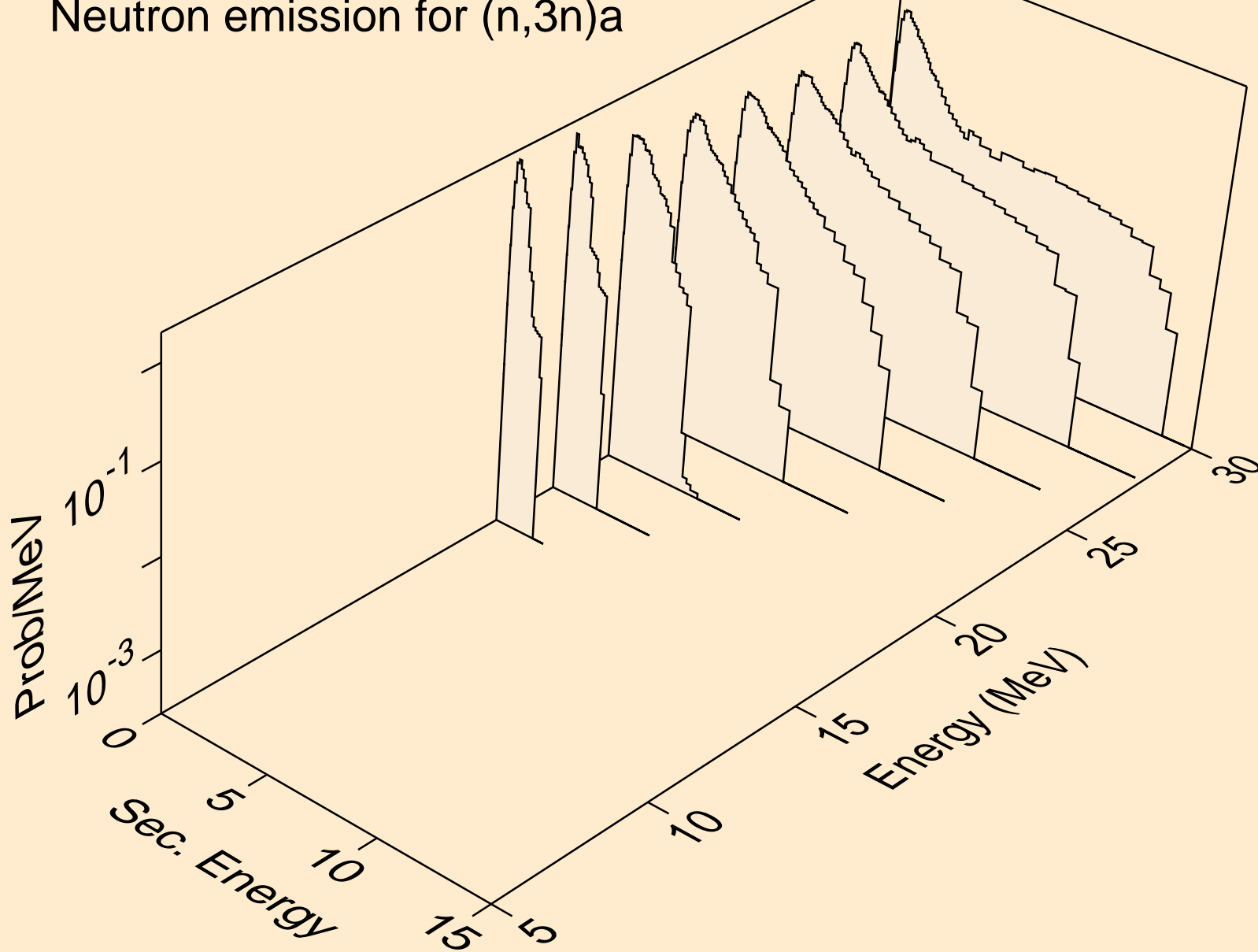
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)a



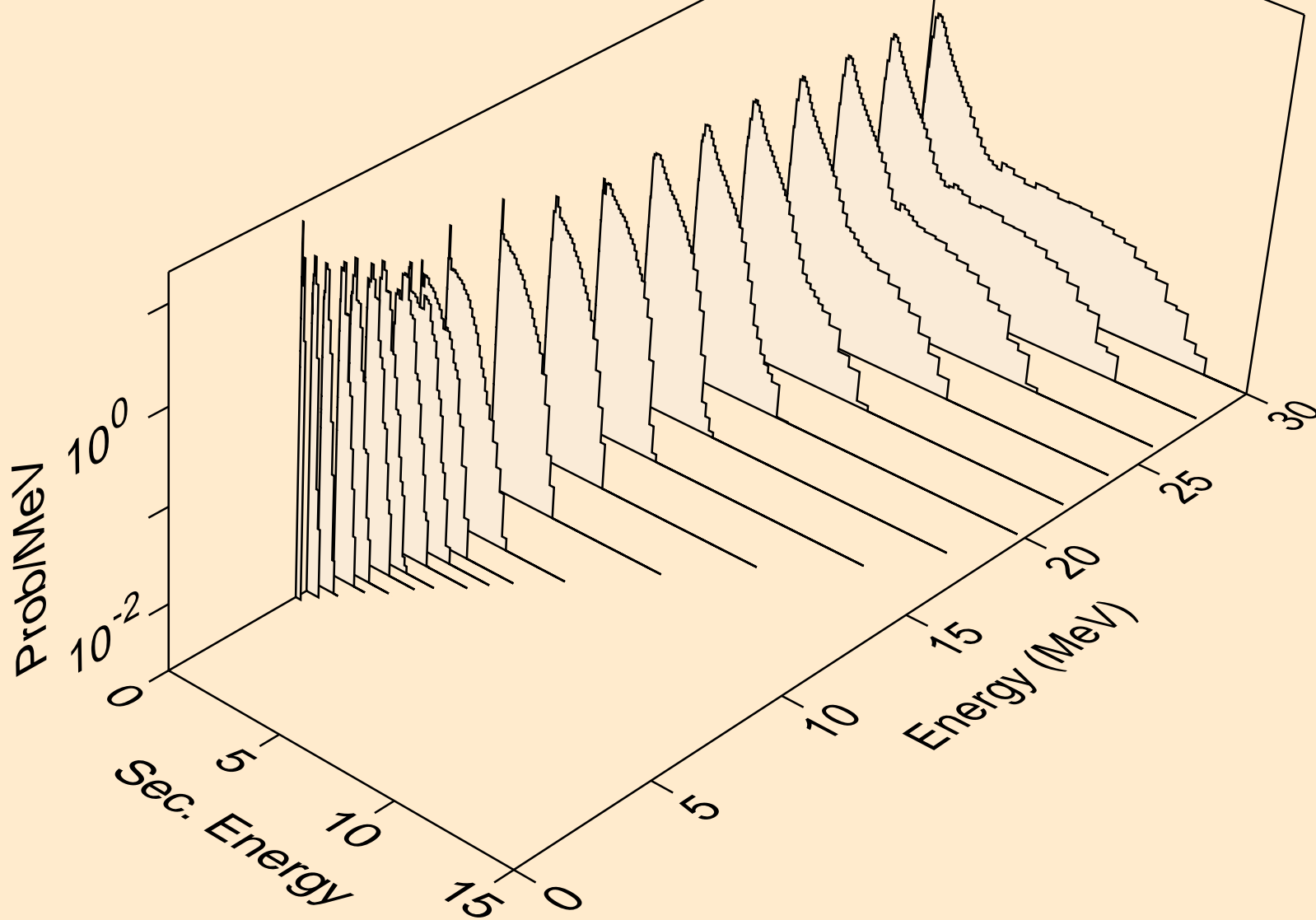
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Neutron emission for (n,2n)a



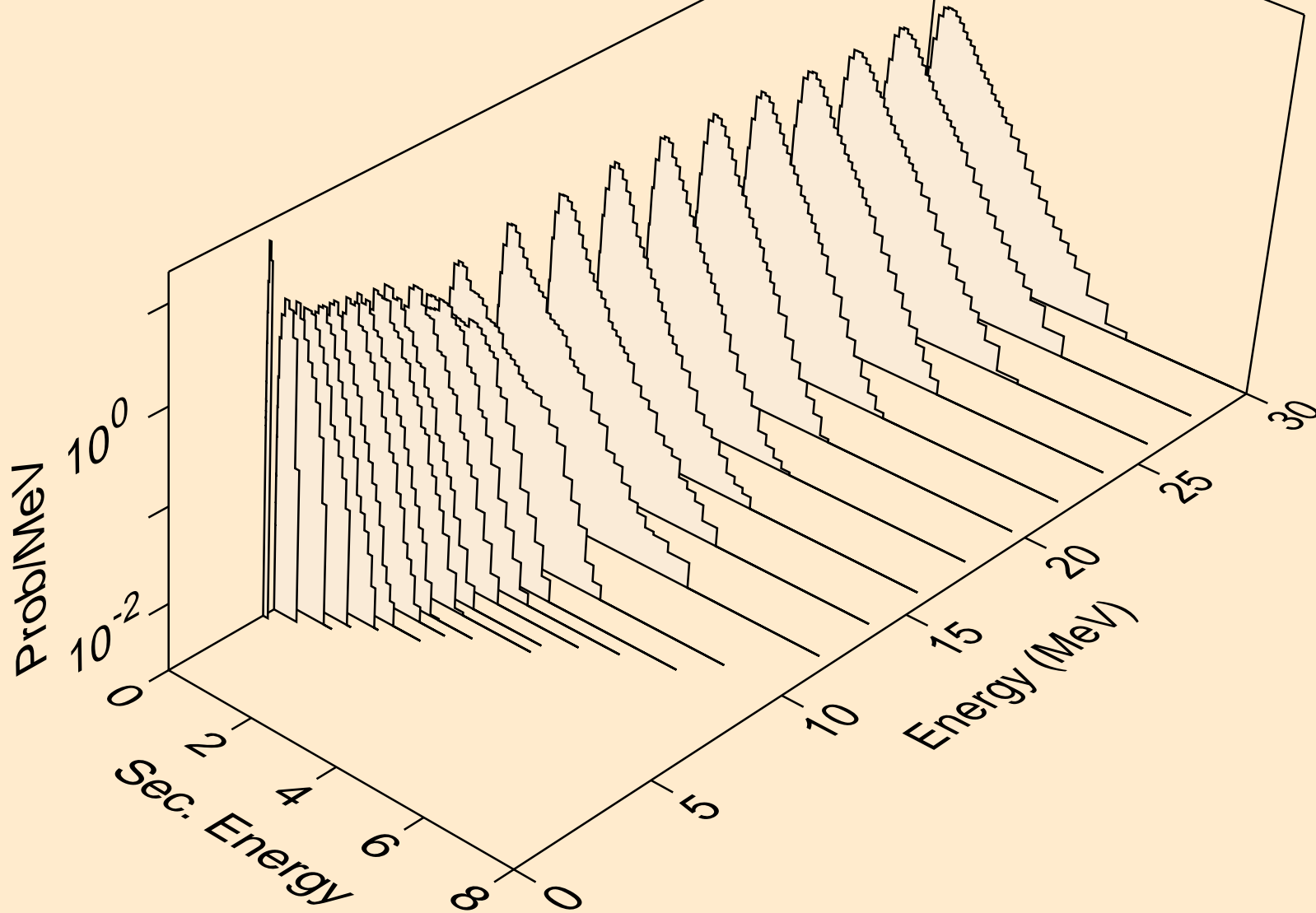
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Neutron emission for (n,3n)a



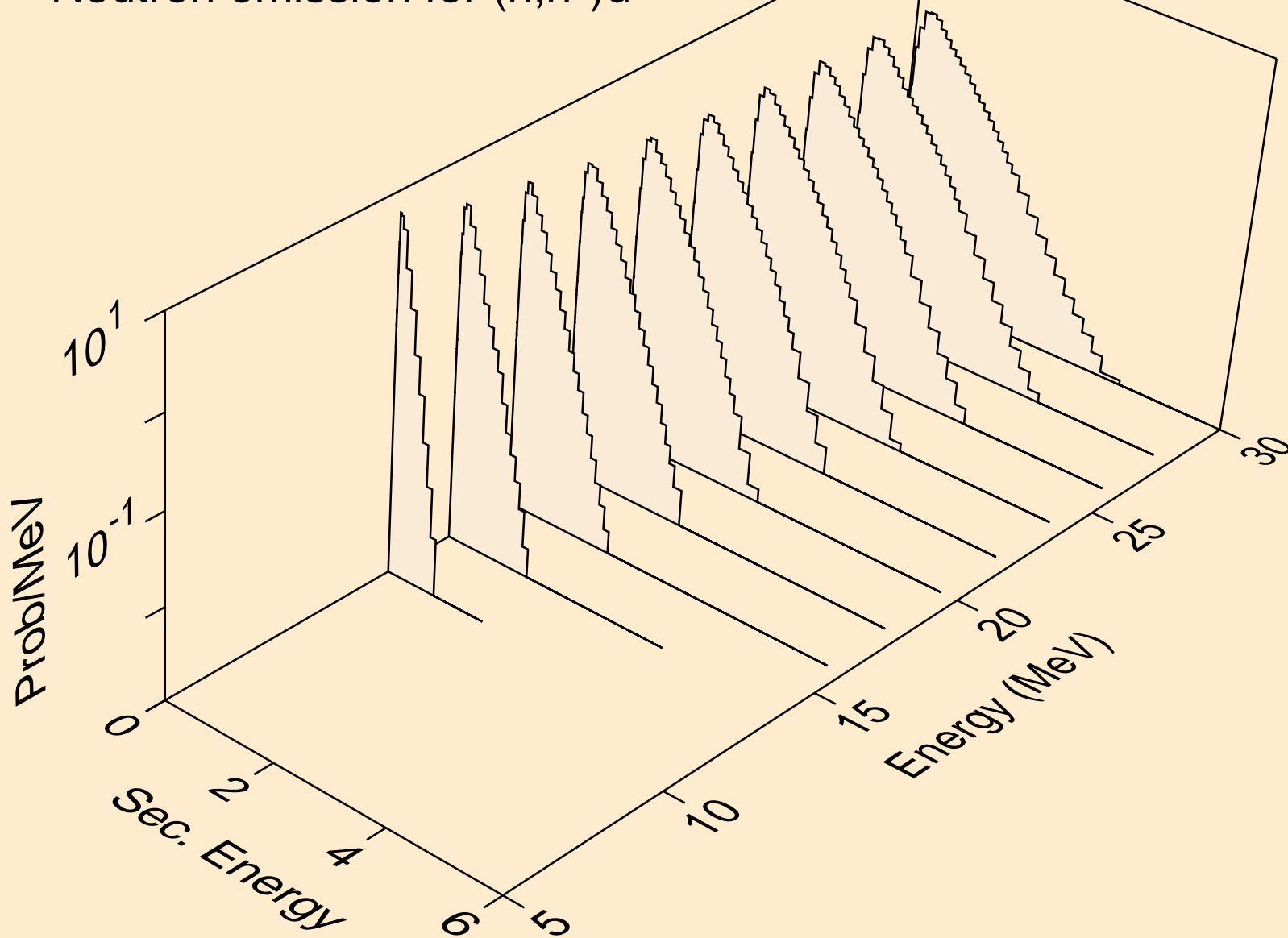
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)p



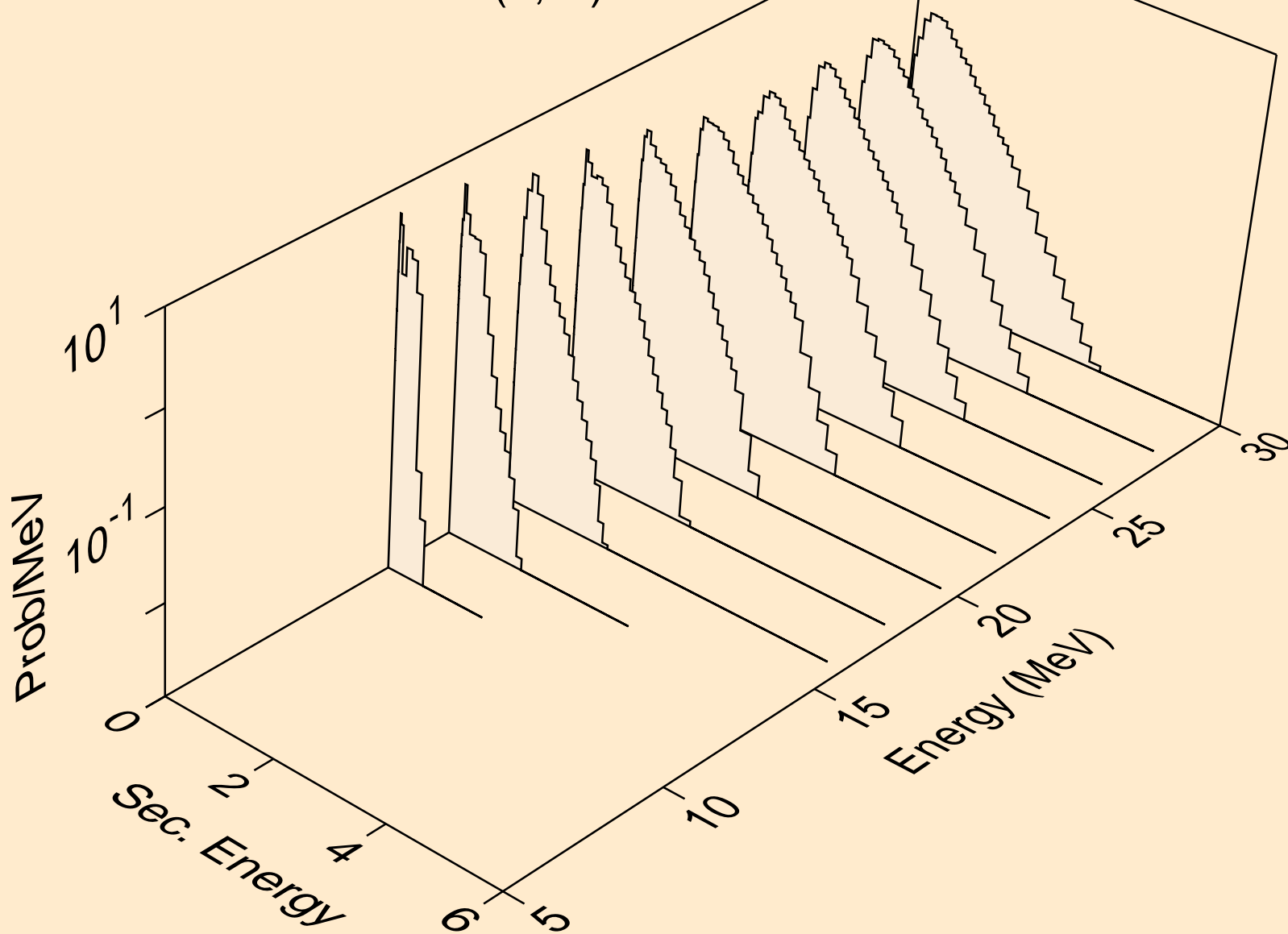
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)2a



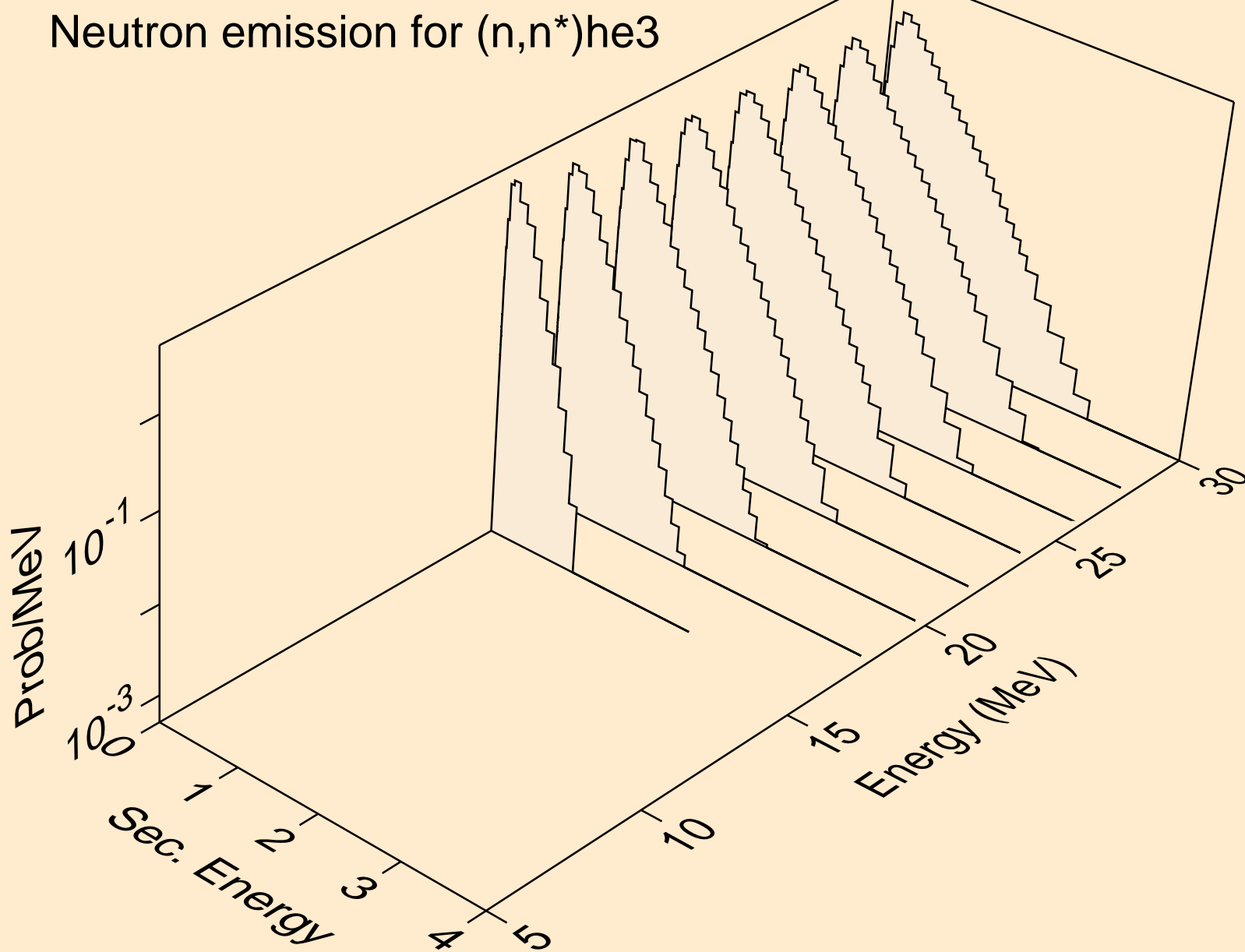
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)d



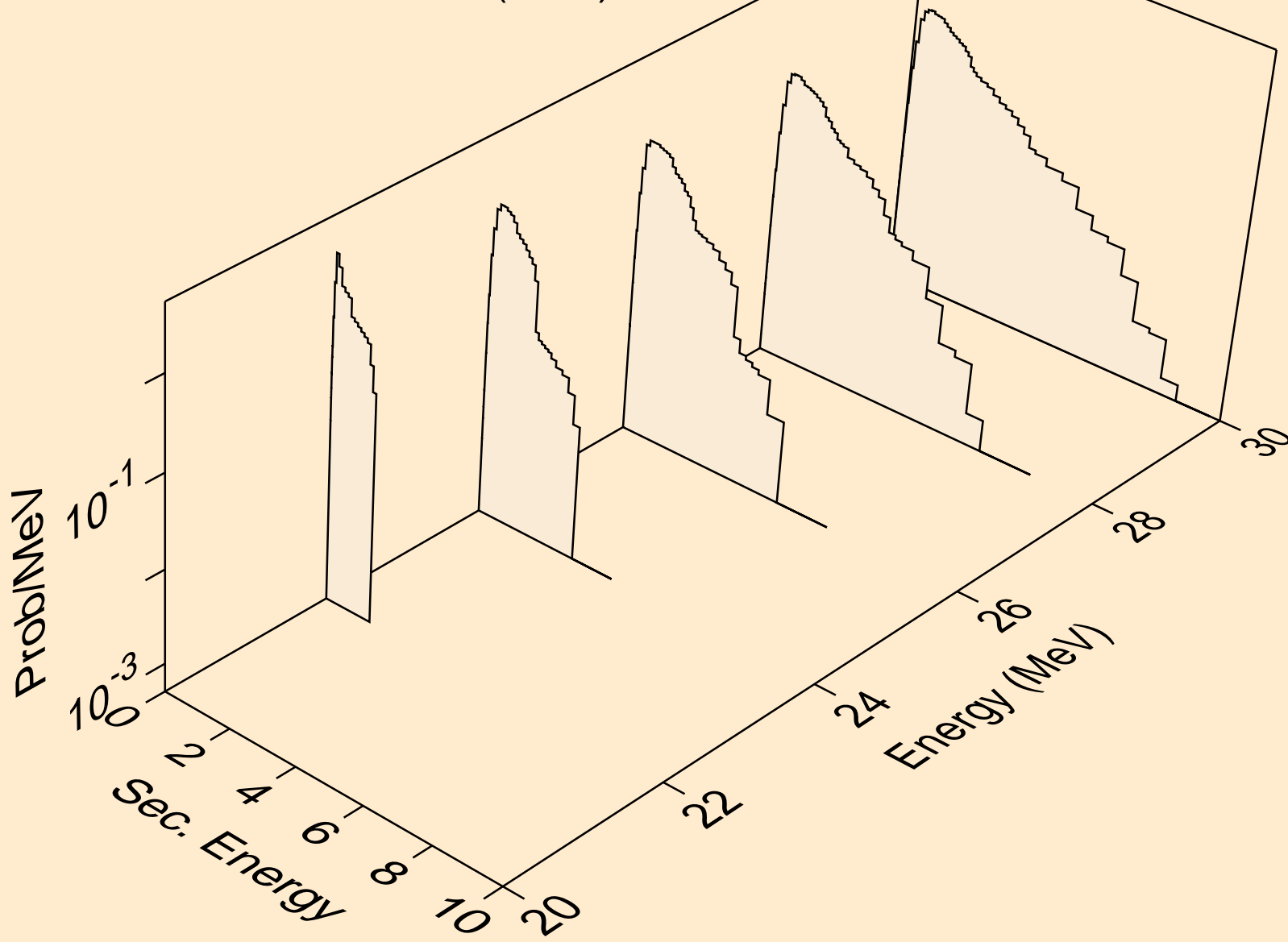
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)t



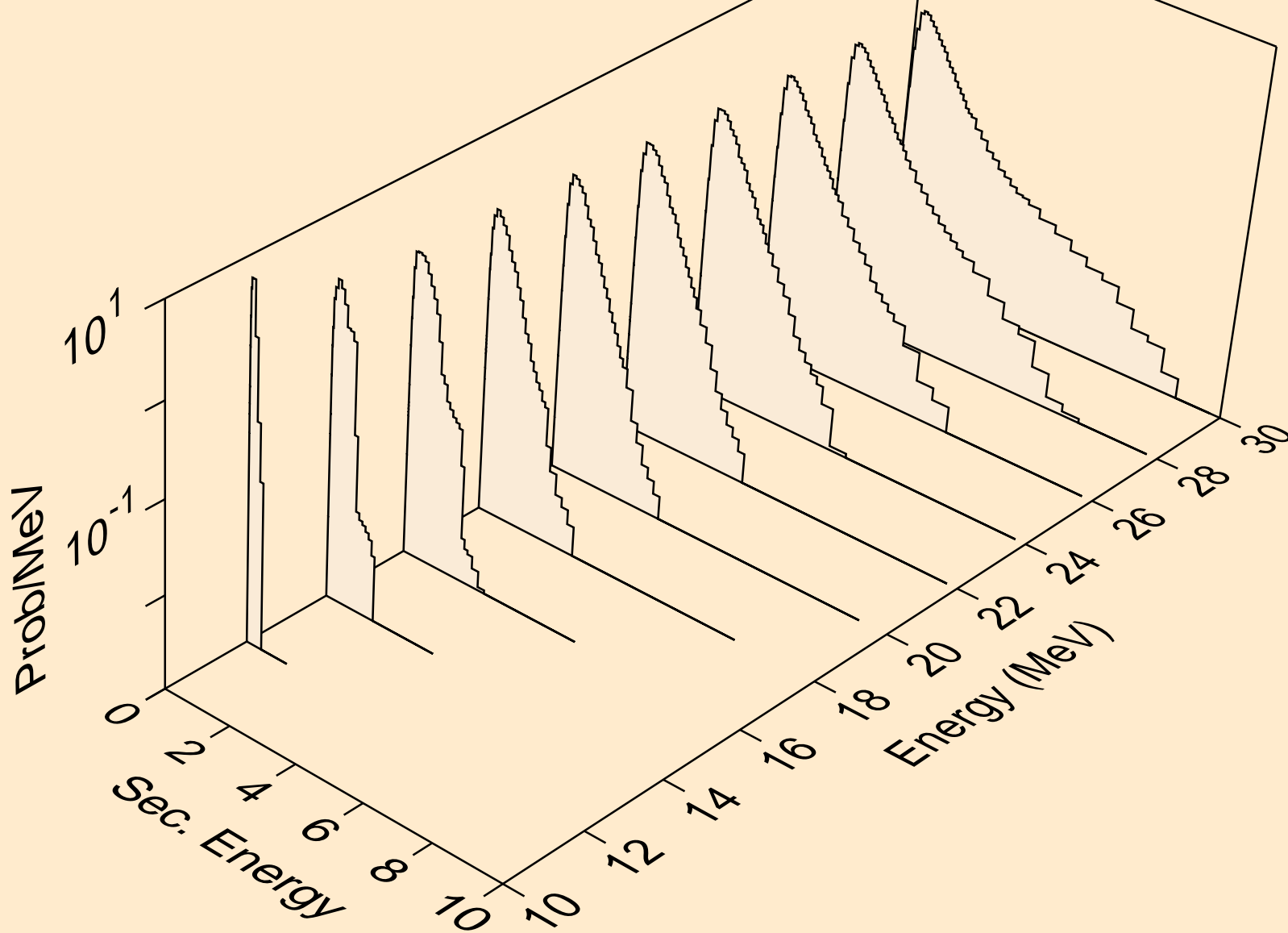
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)he3



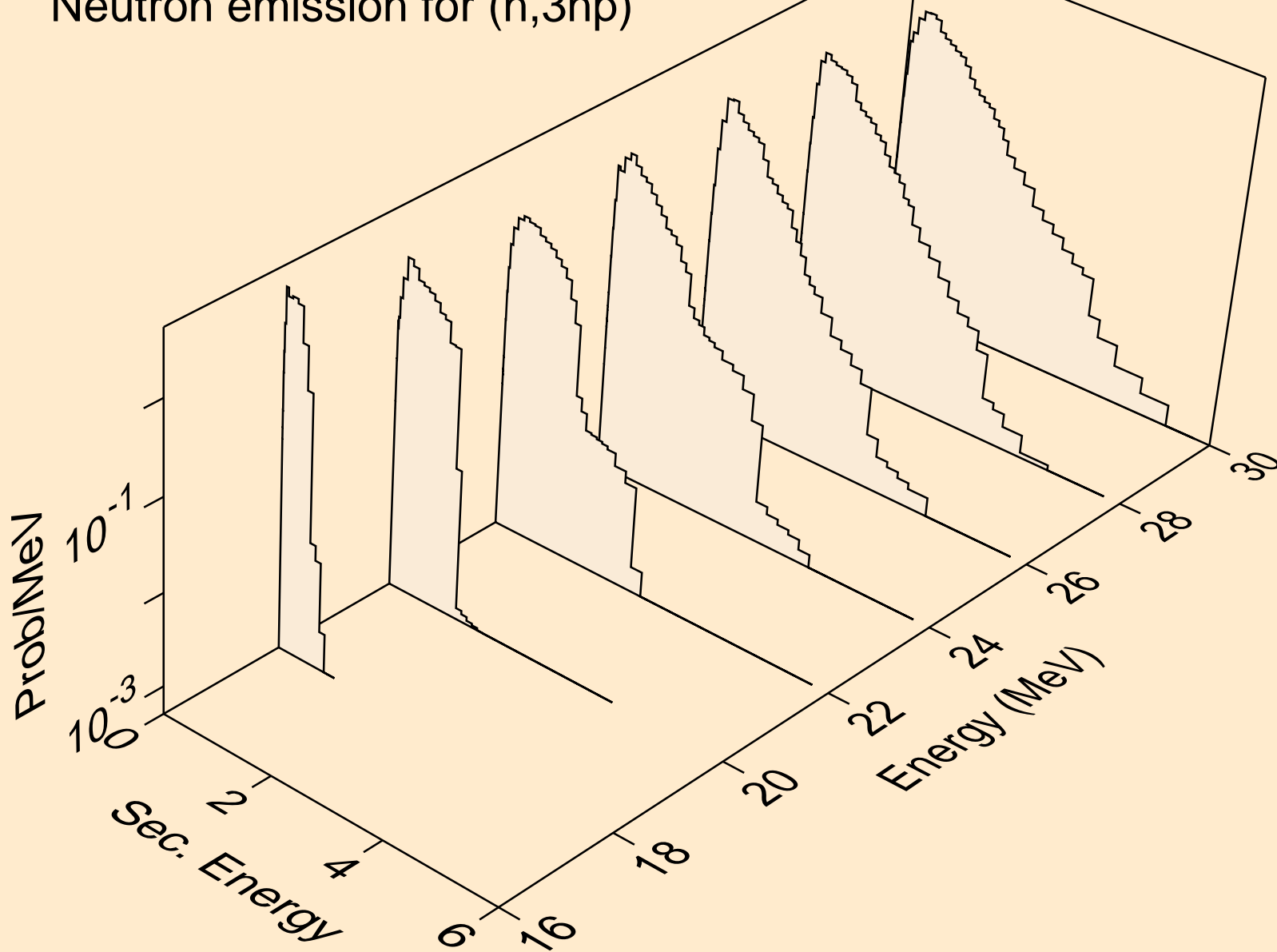
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,4n)



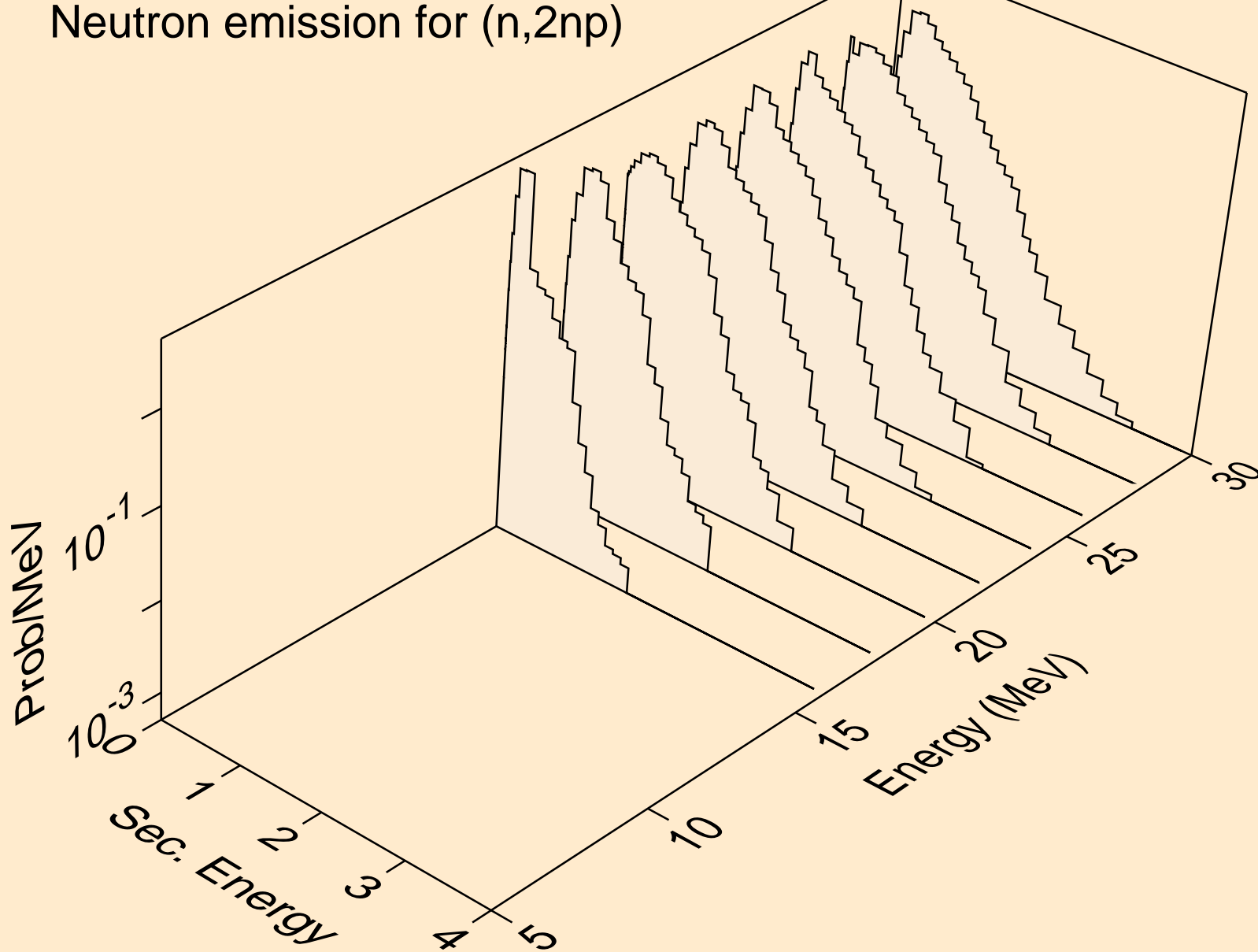
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2np)



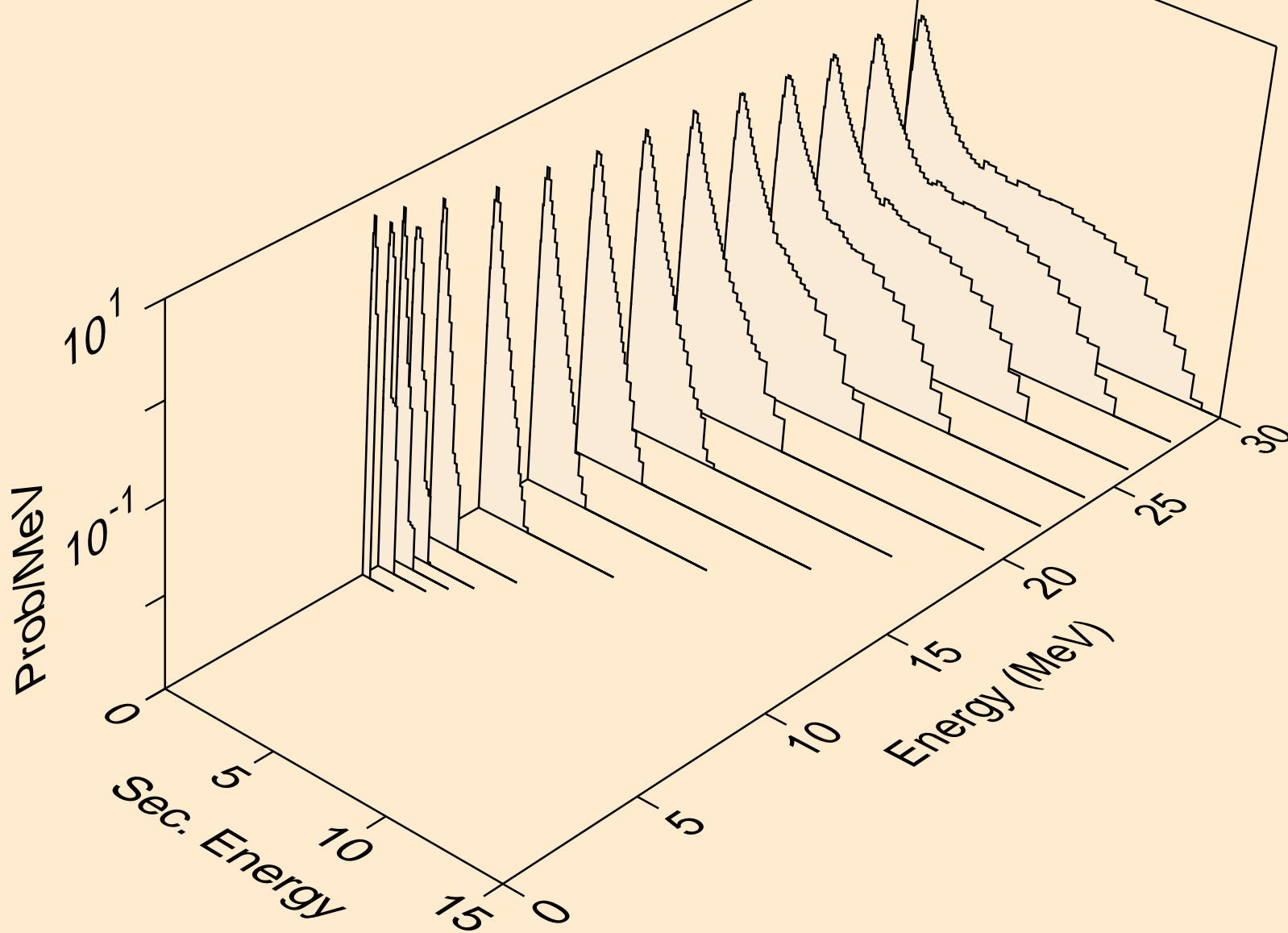
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3np)



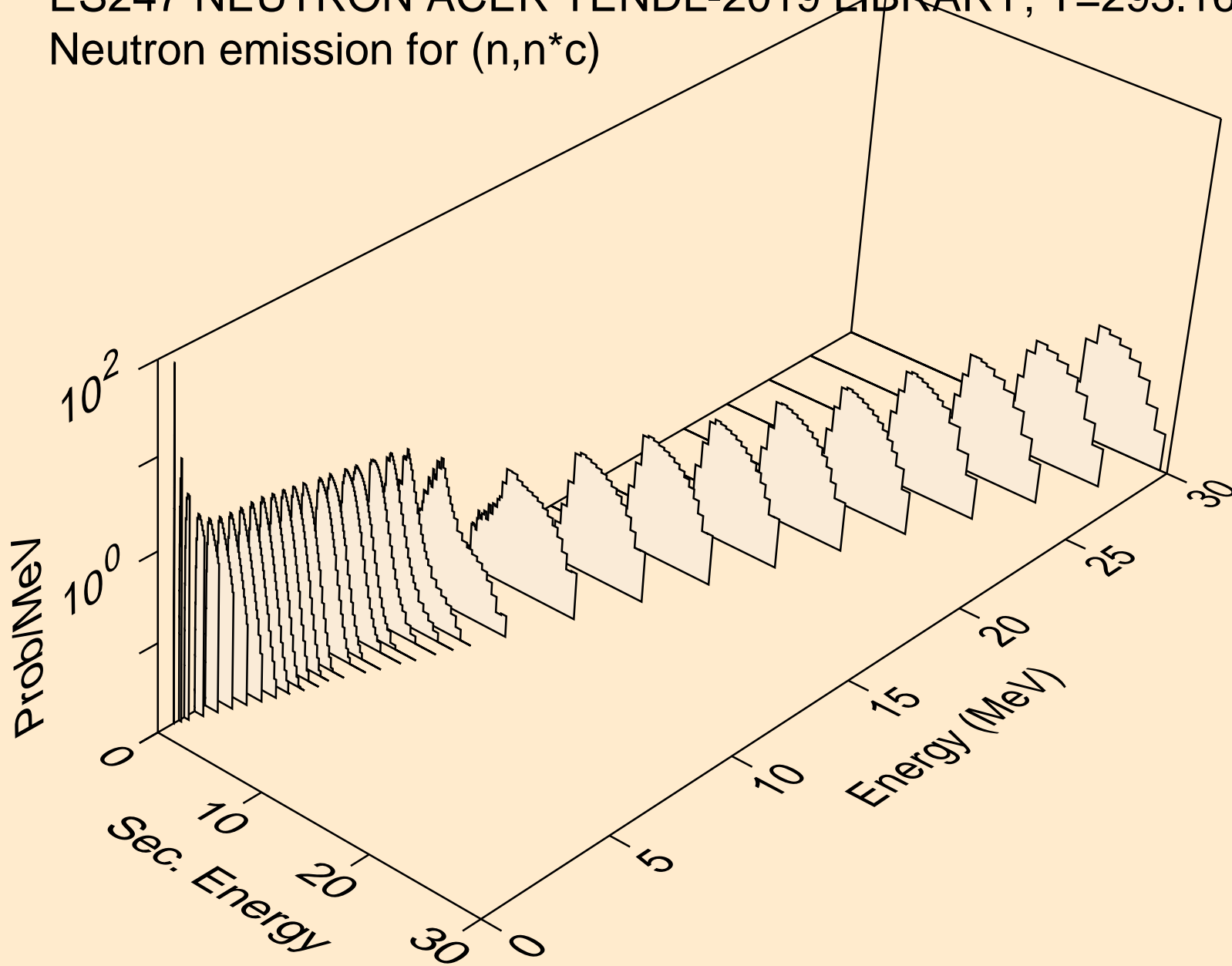
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2np)



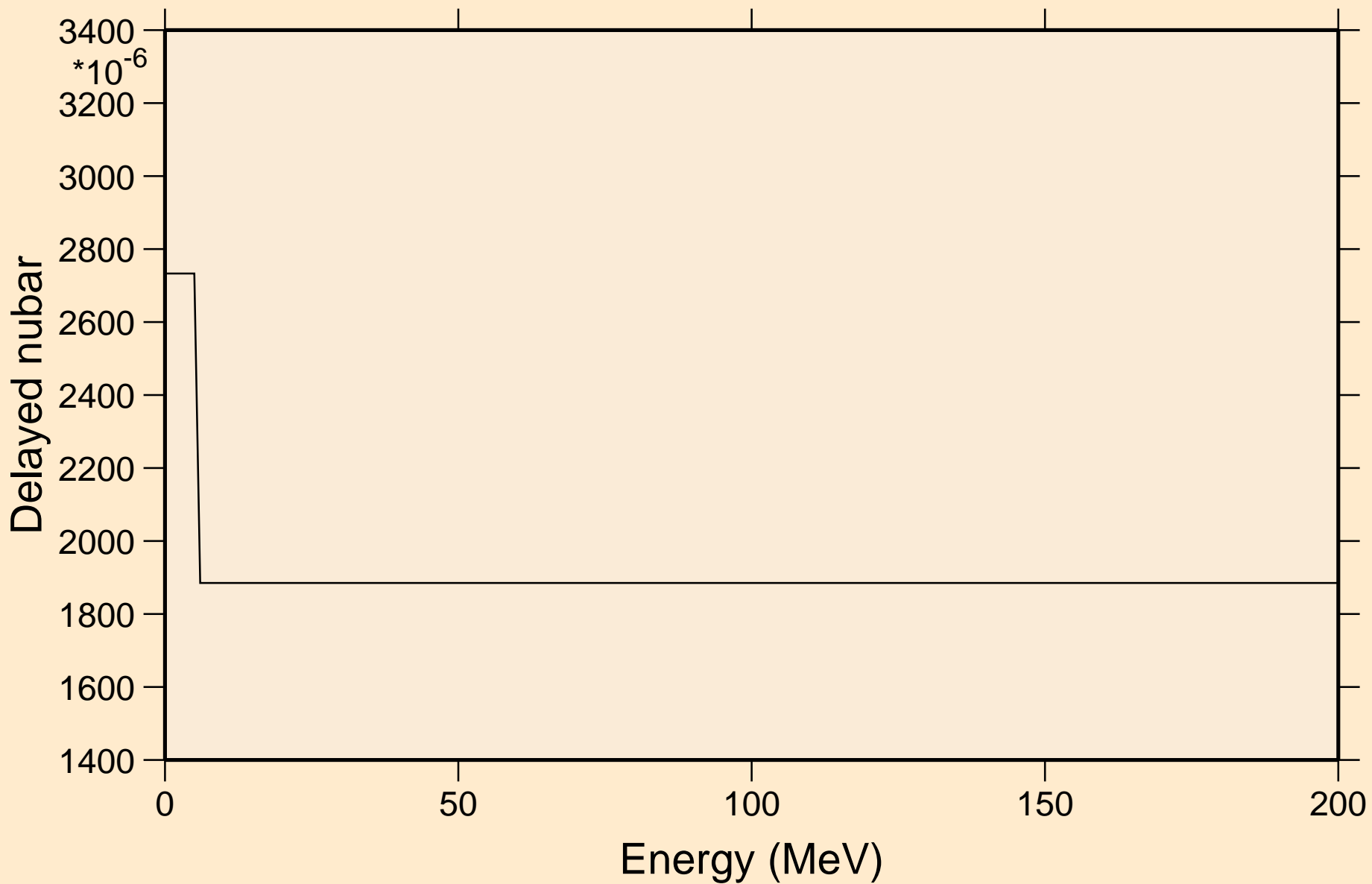
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,npa)



ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*c)

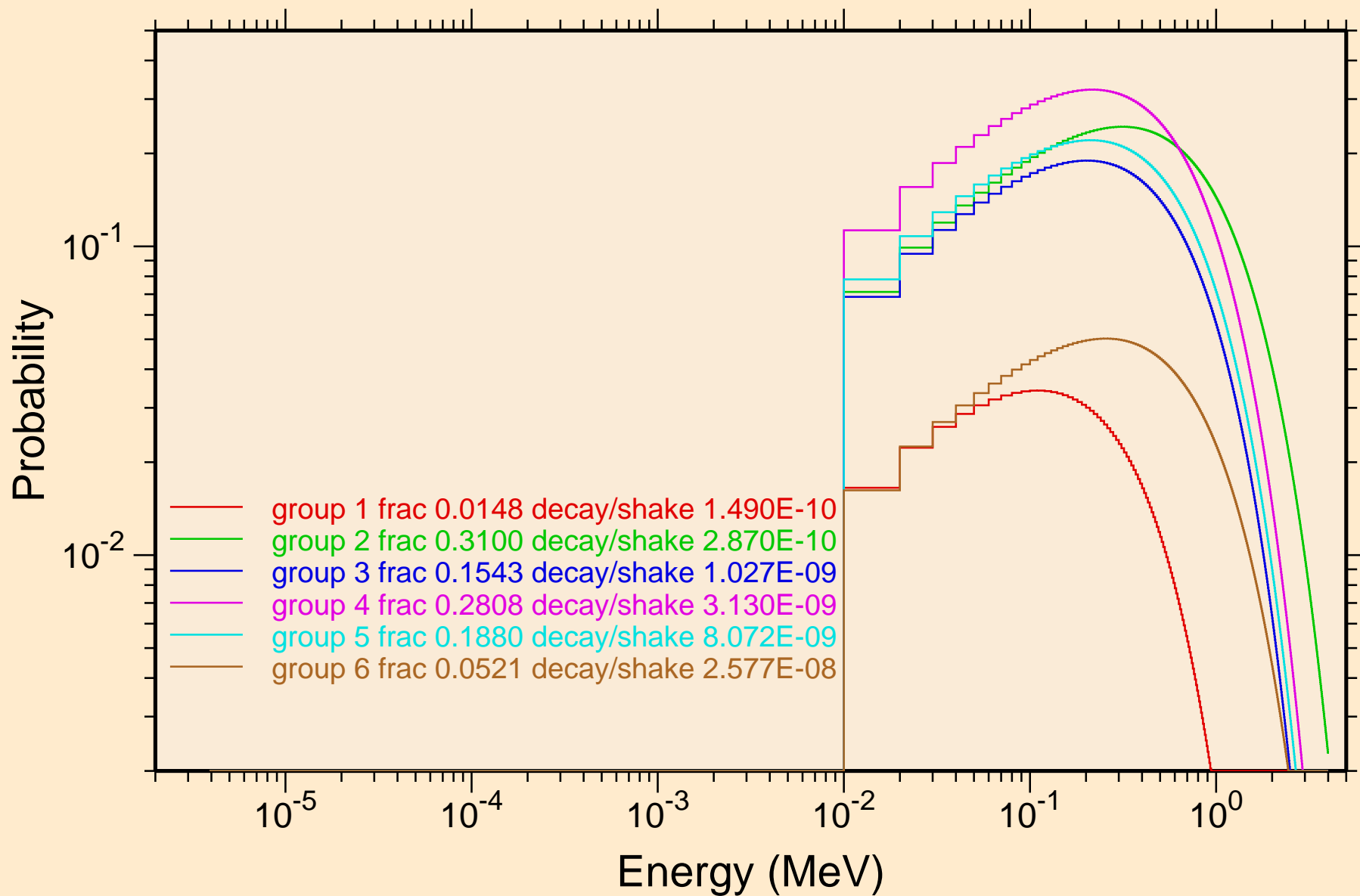


ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Delayed nubar

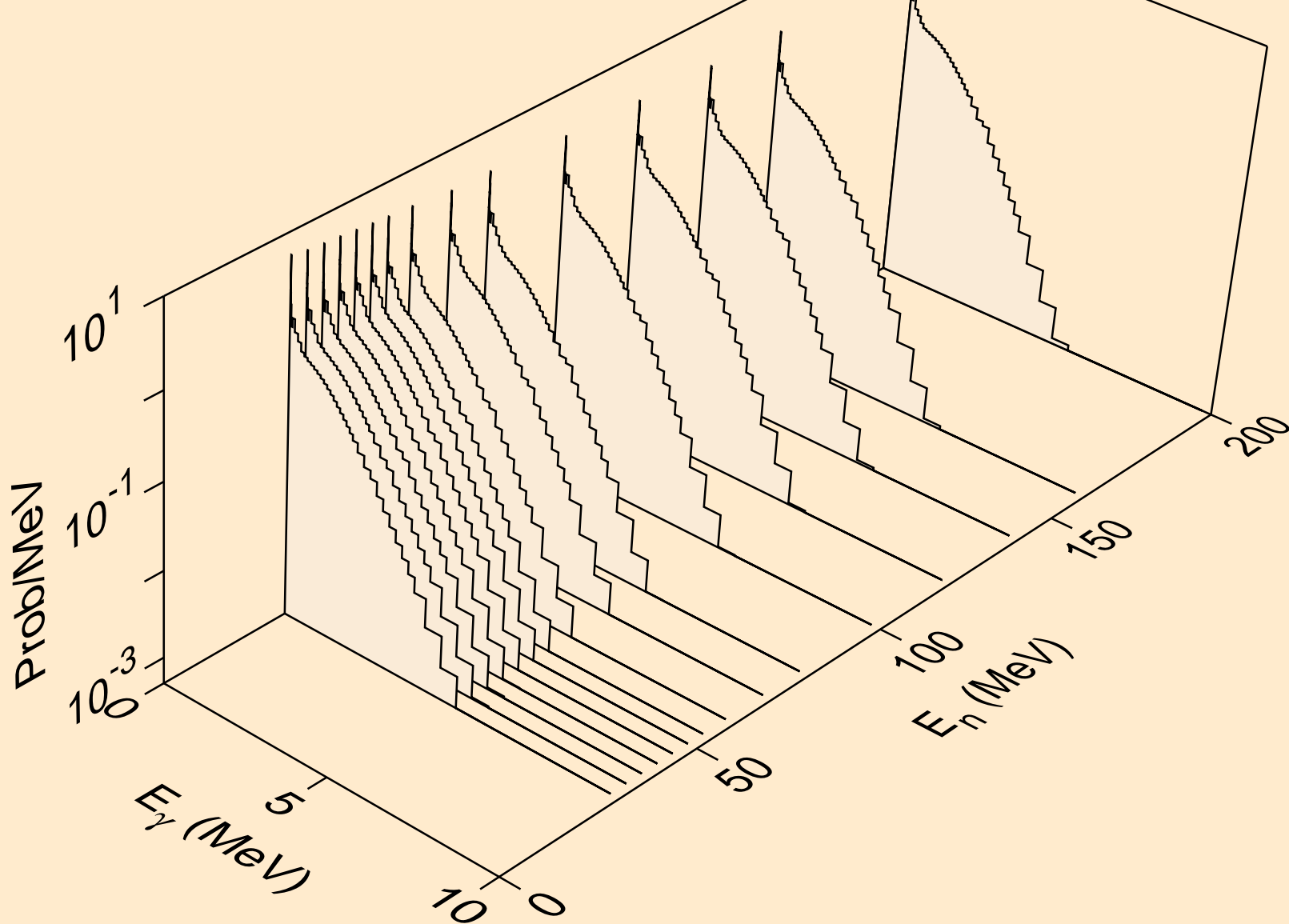


# ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

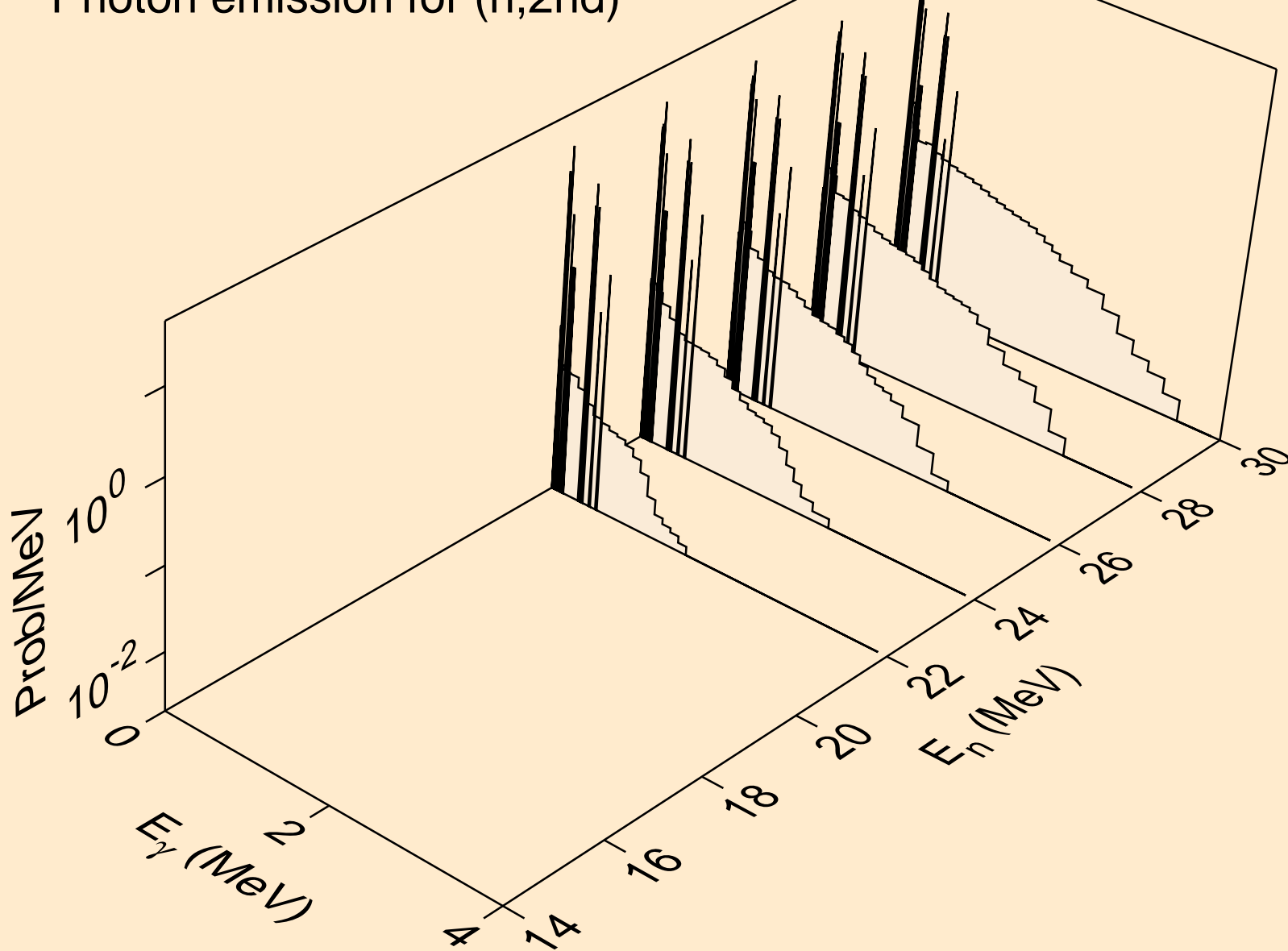
## Delayed neutron spectra



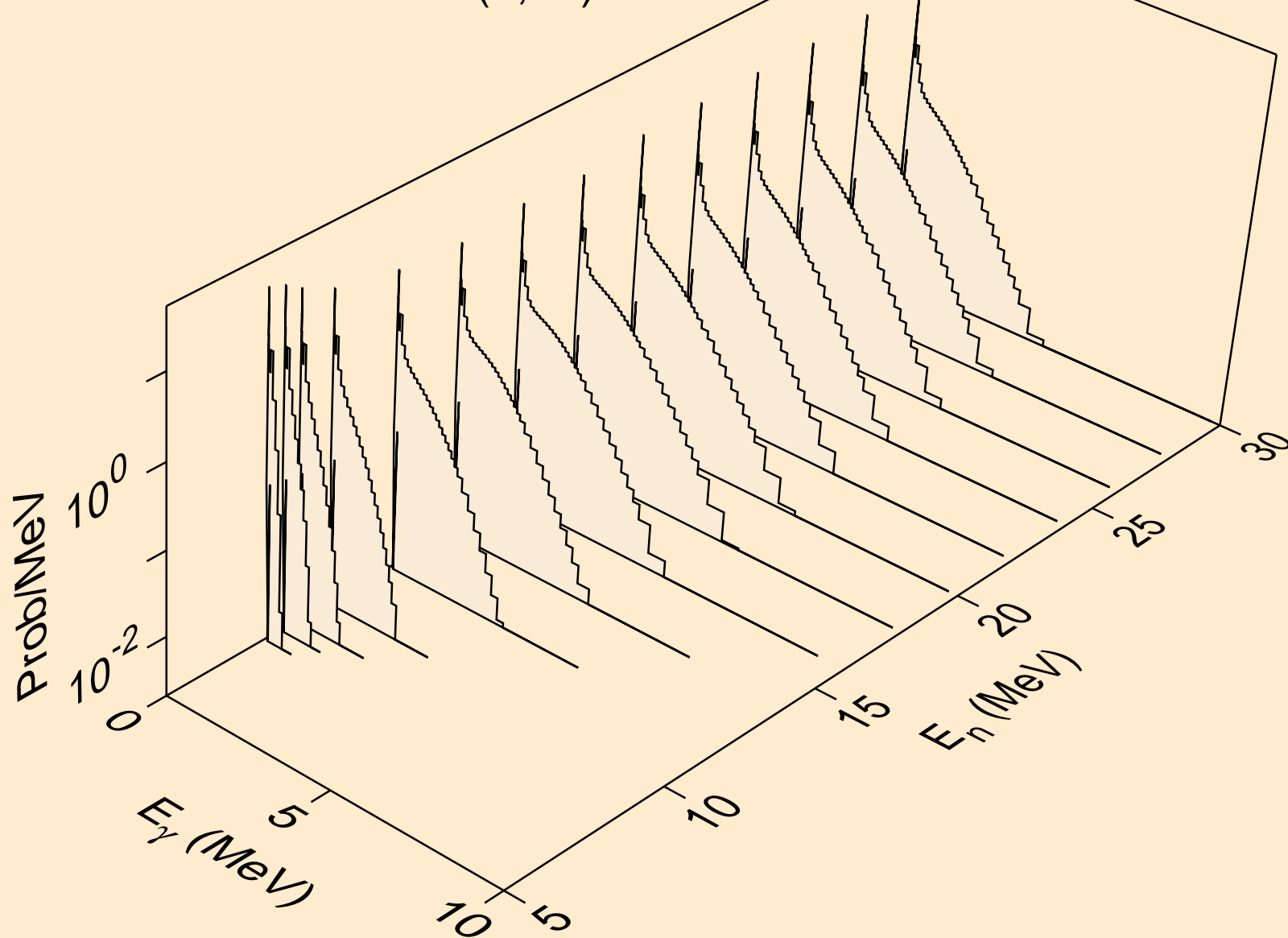
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,x)



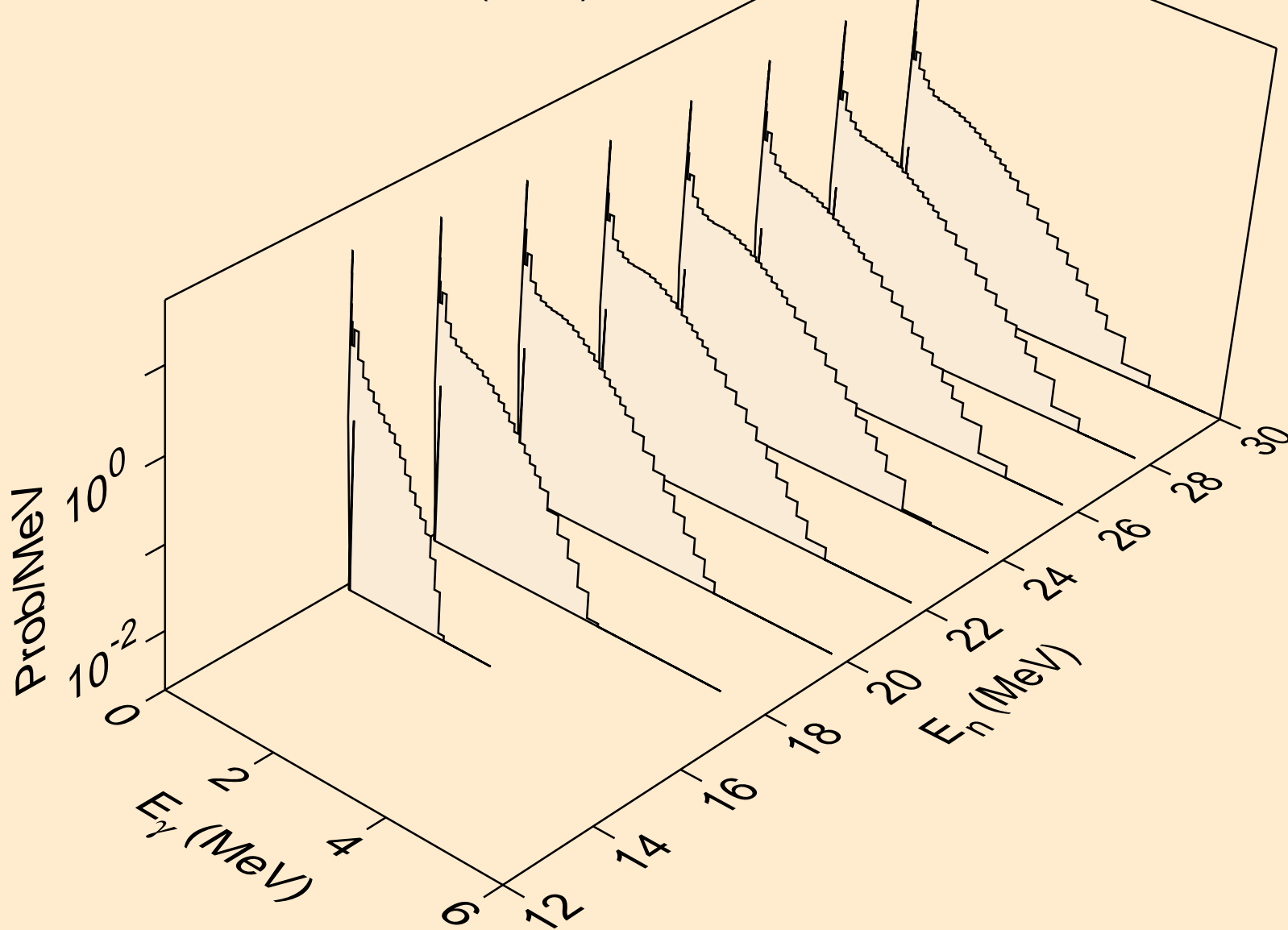
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2nd)



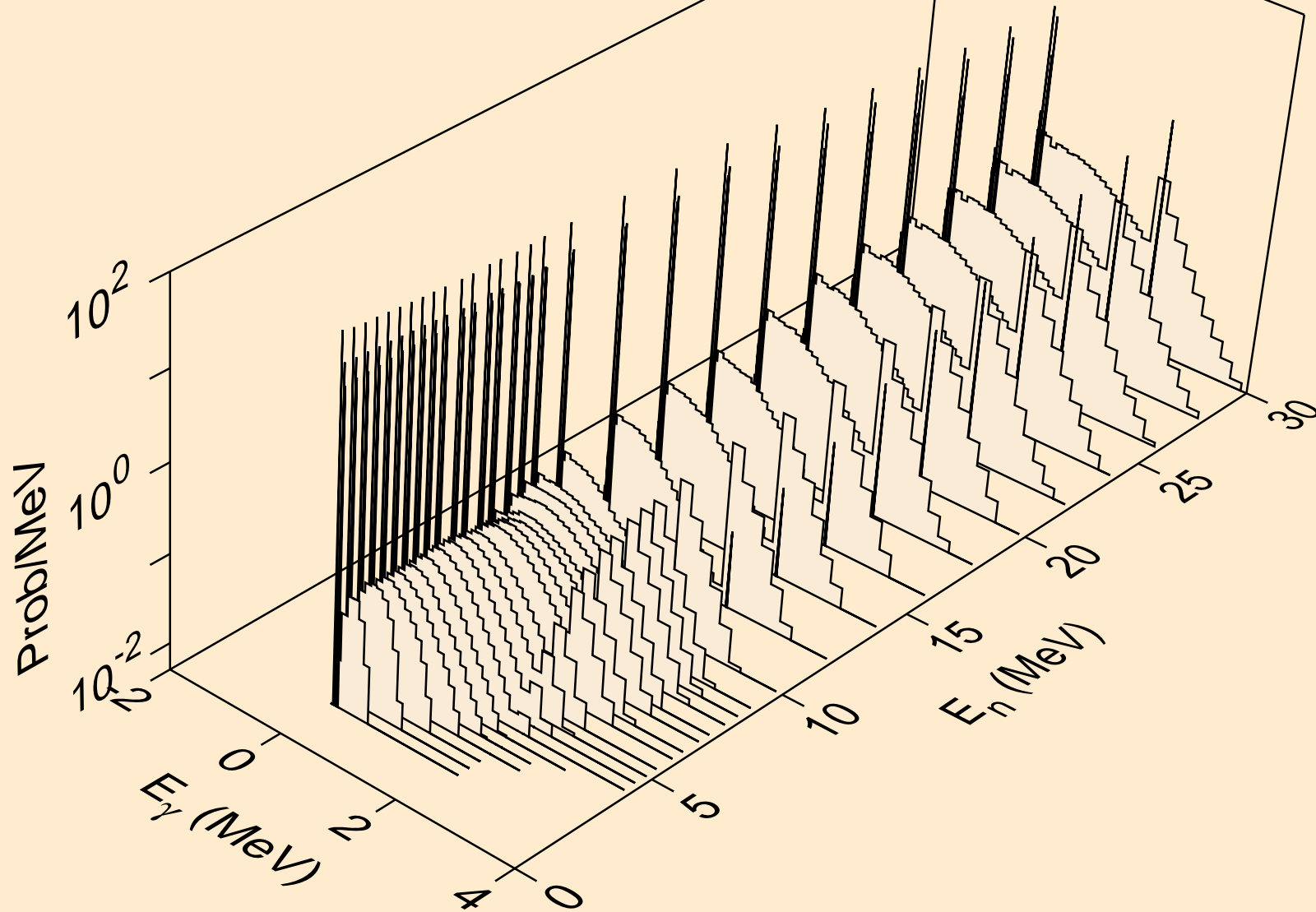
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2n)



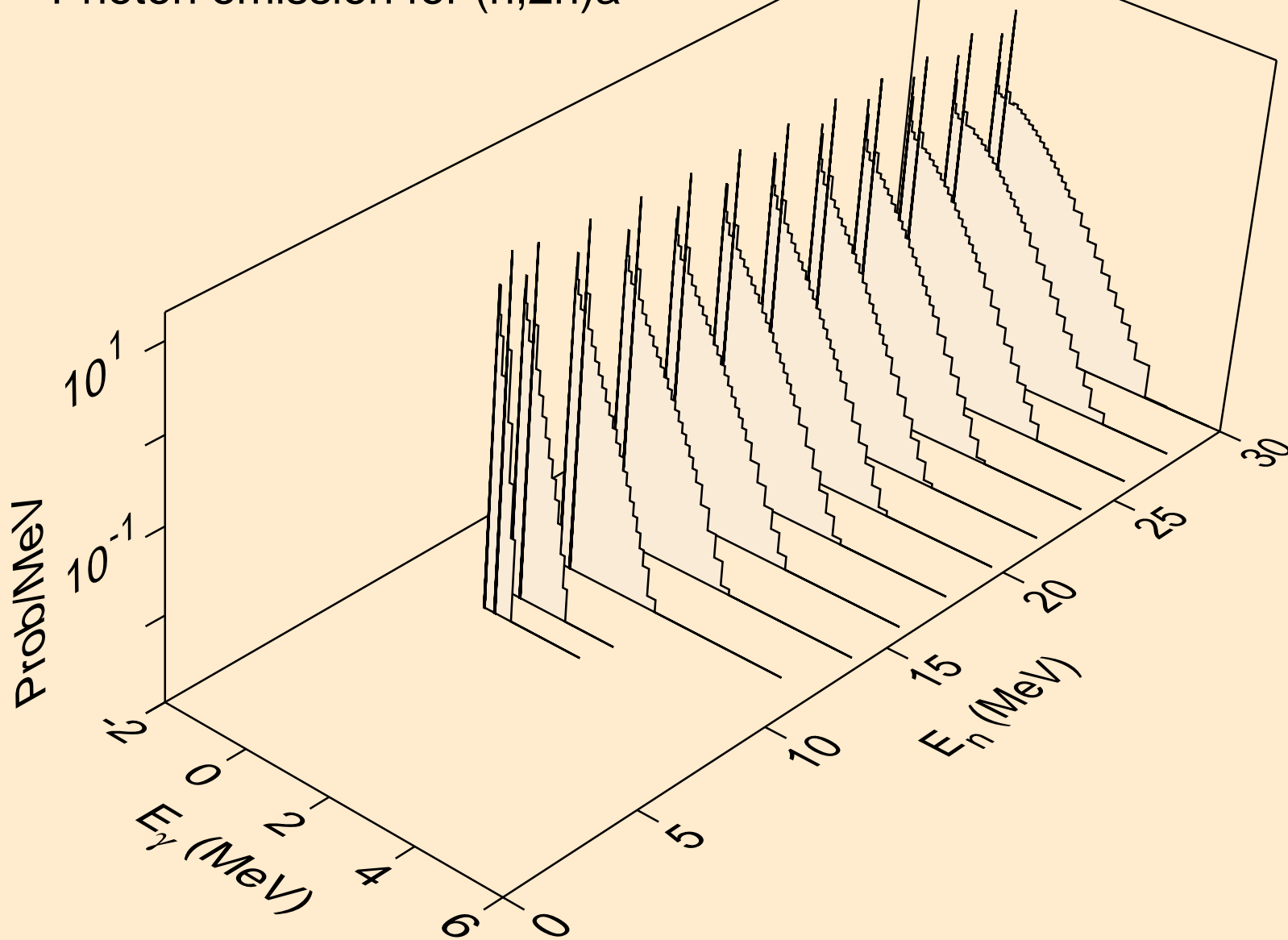
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3n)



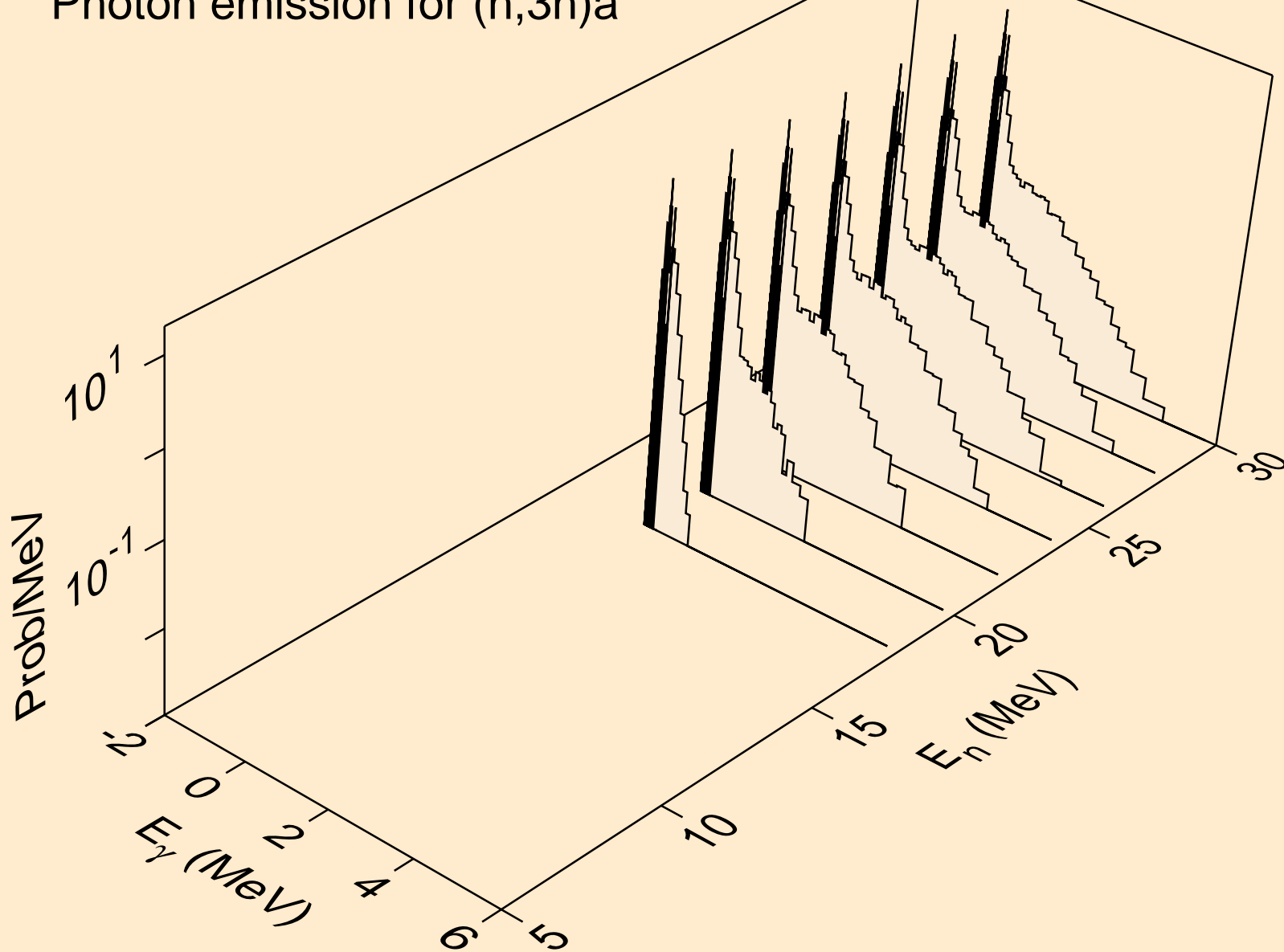
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)a



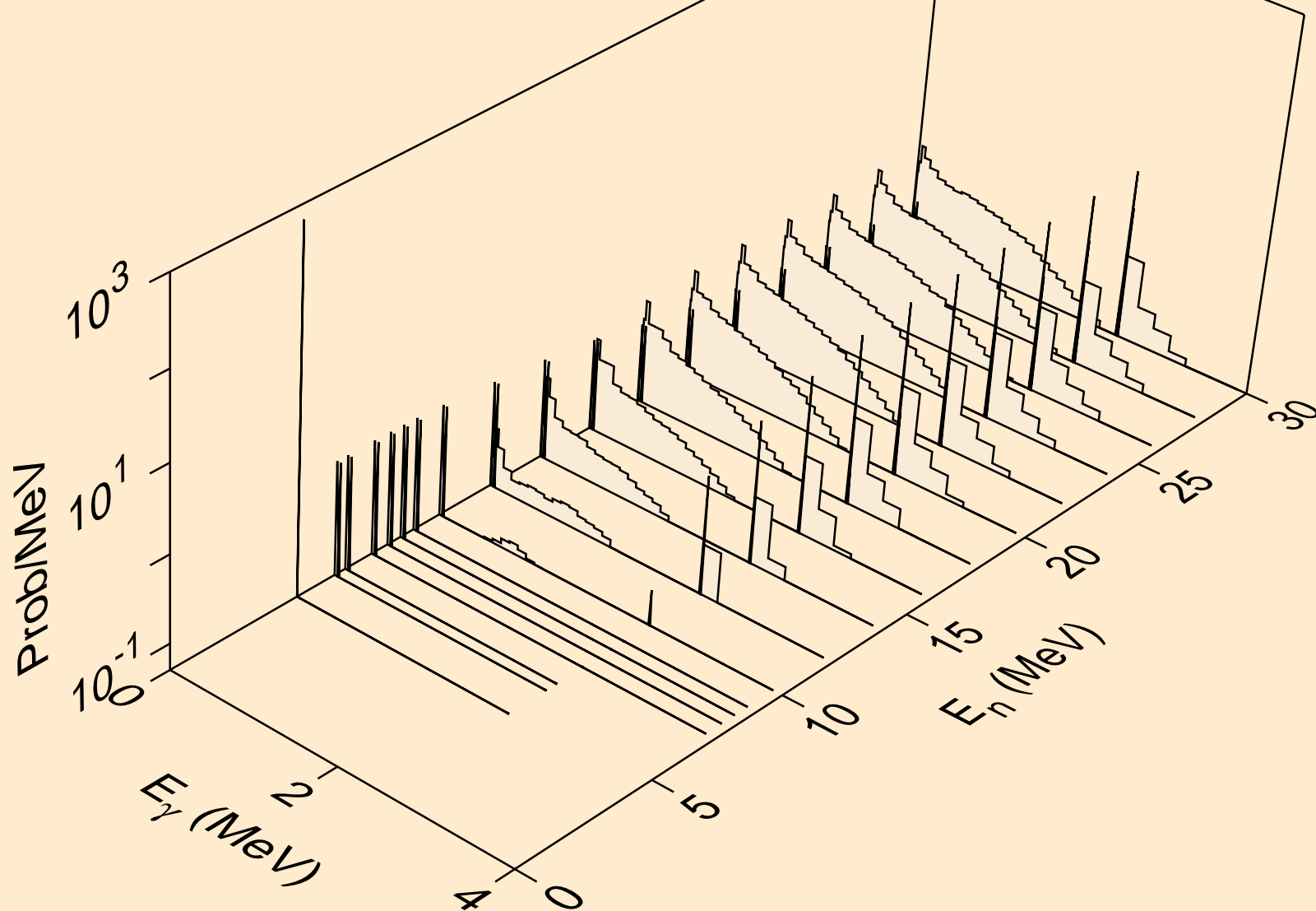
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2n)a



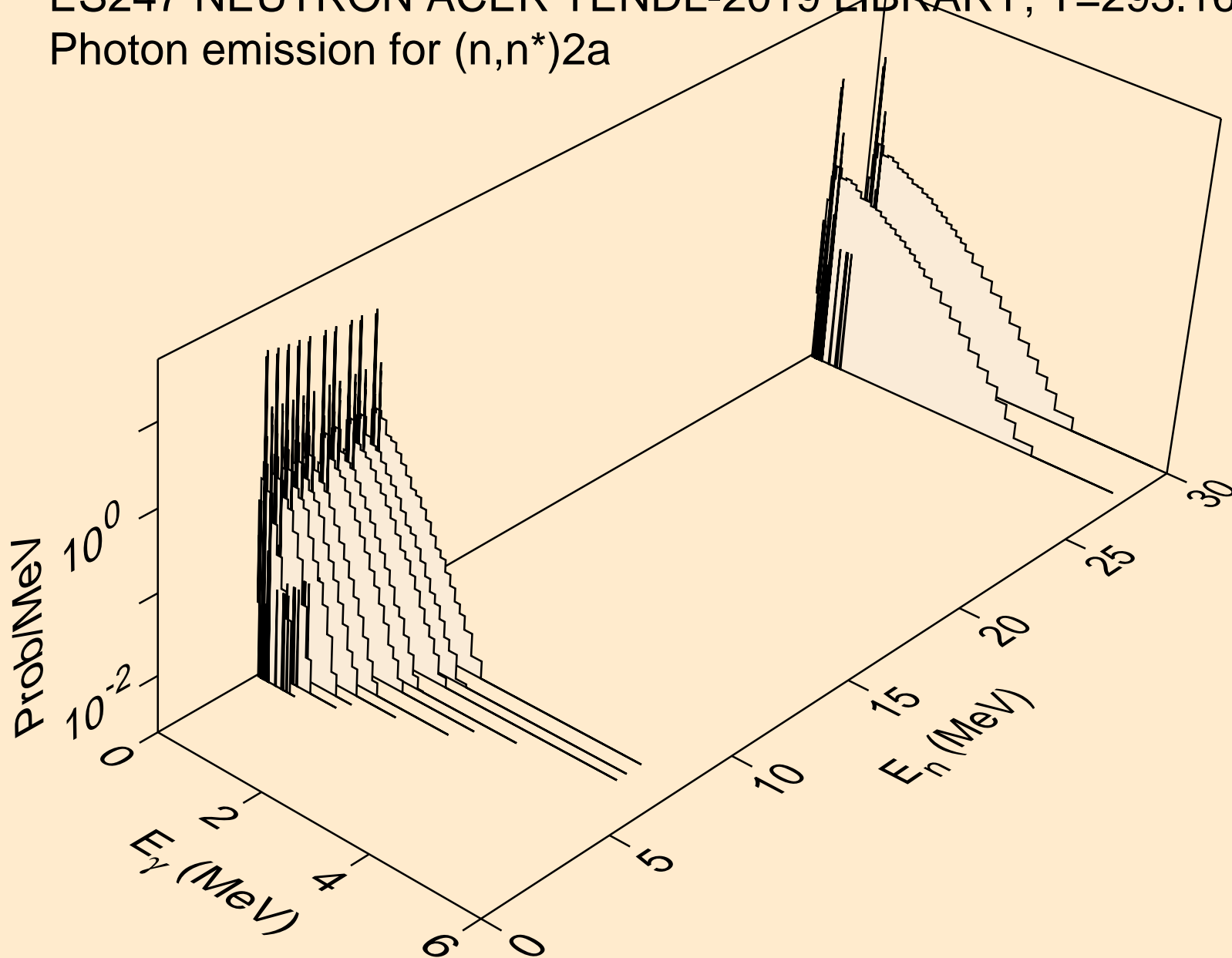
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3n)a



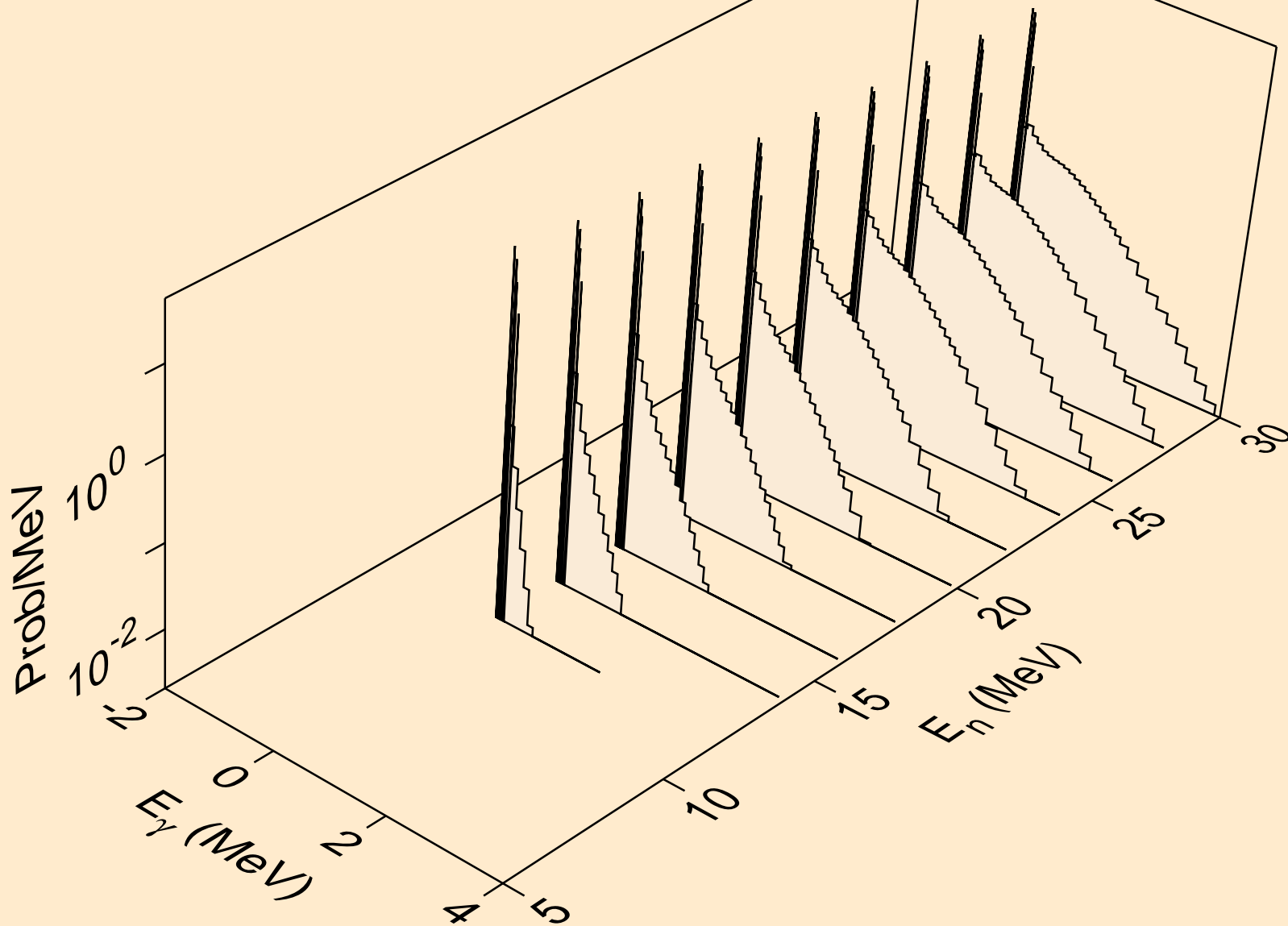
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)p



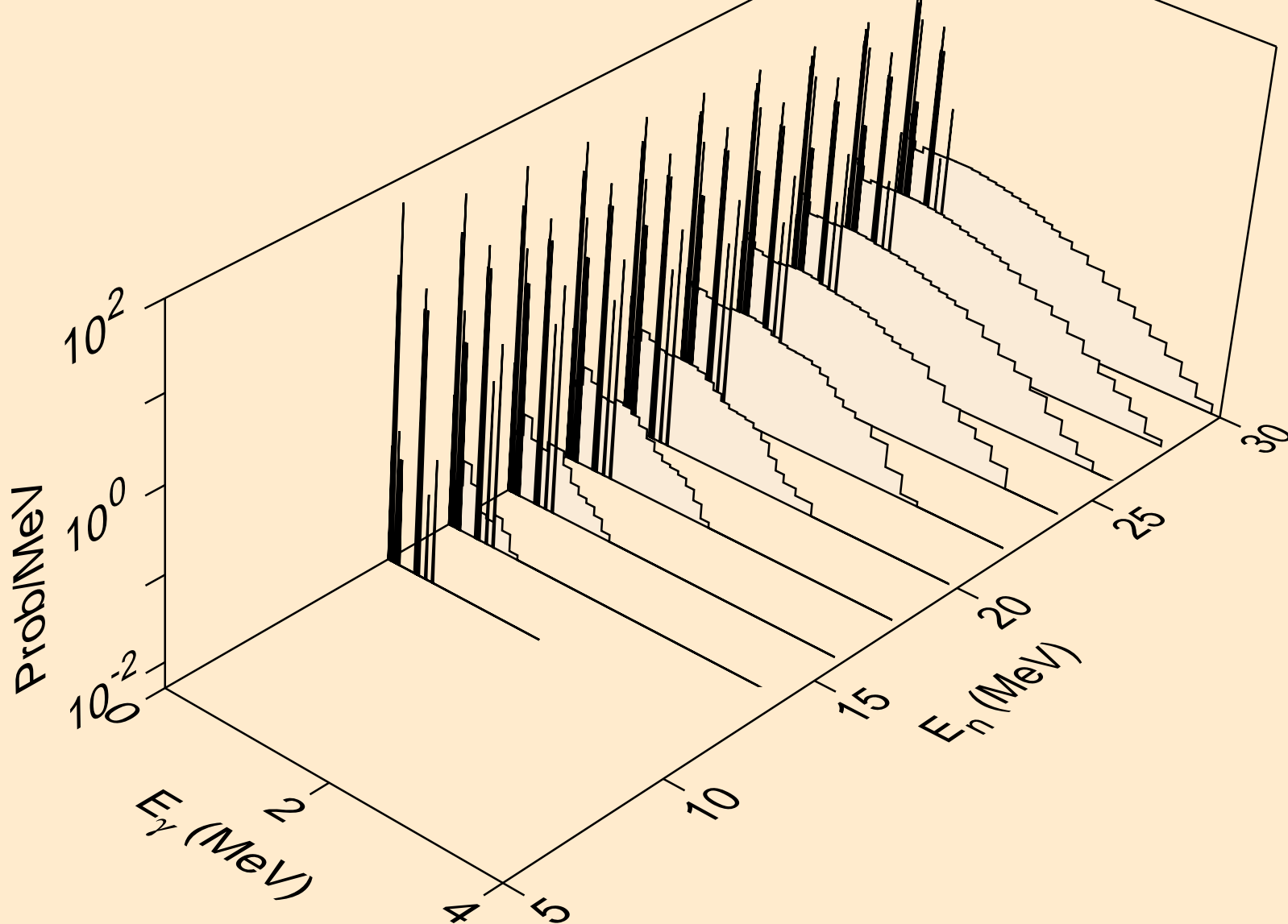
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)2a



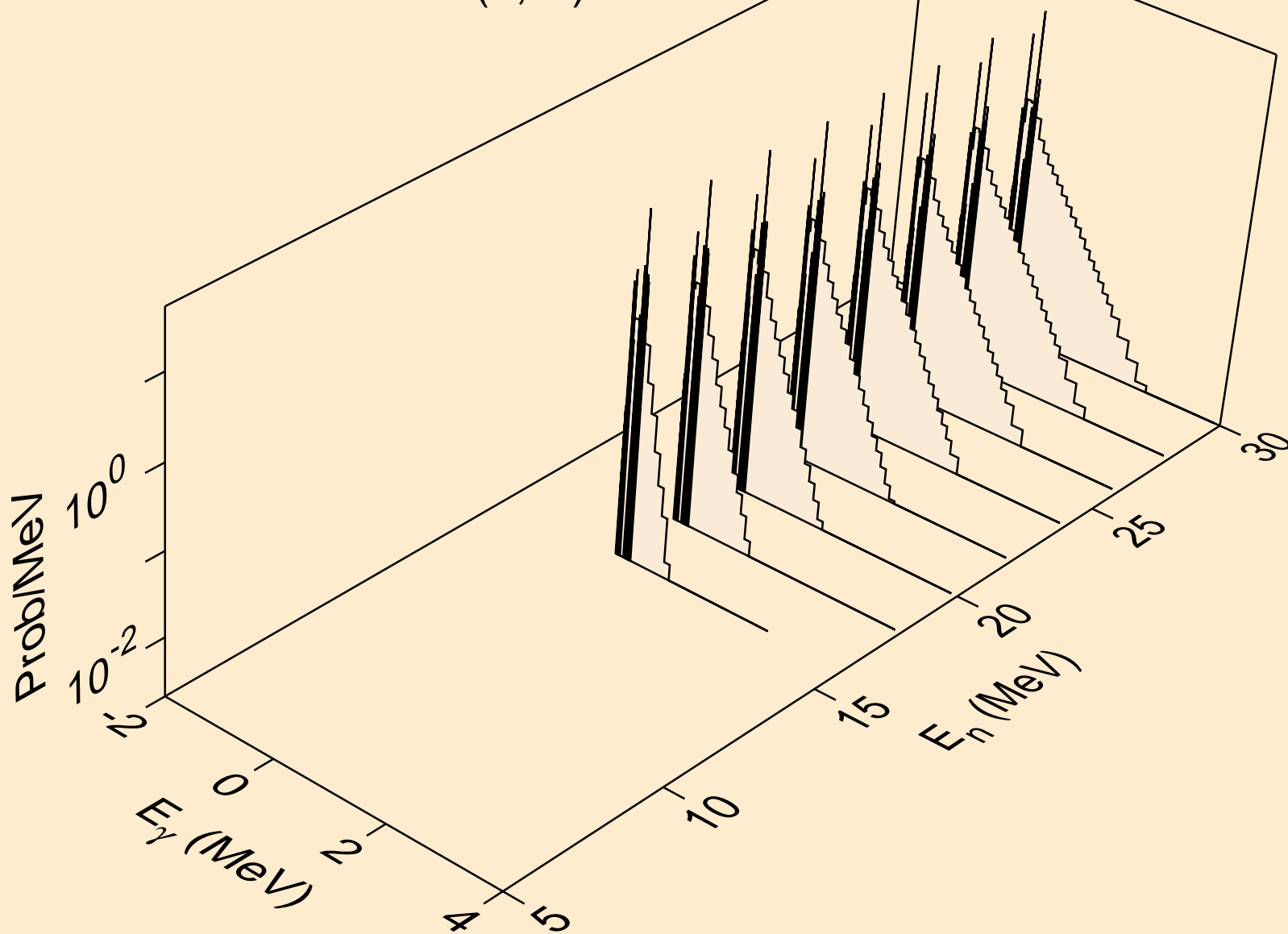
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)d



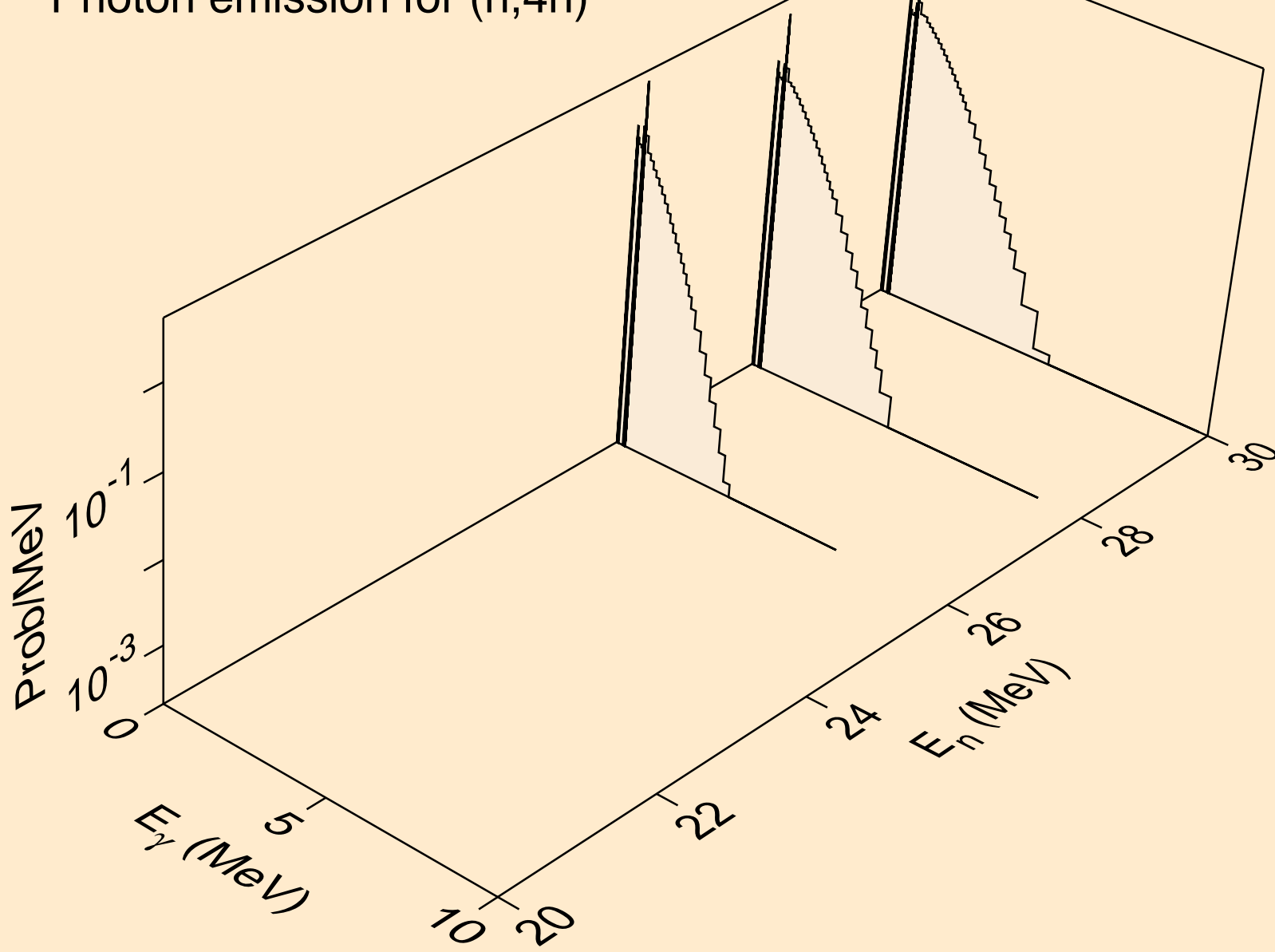
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)t



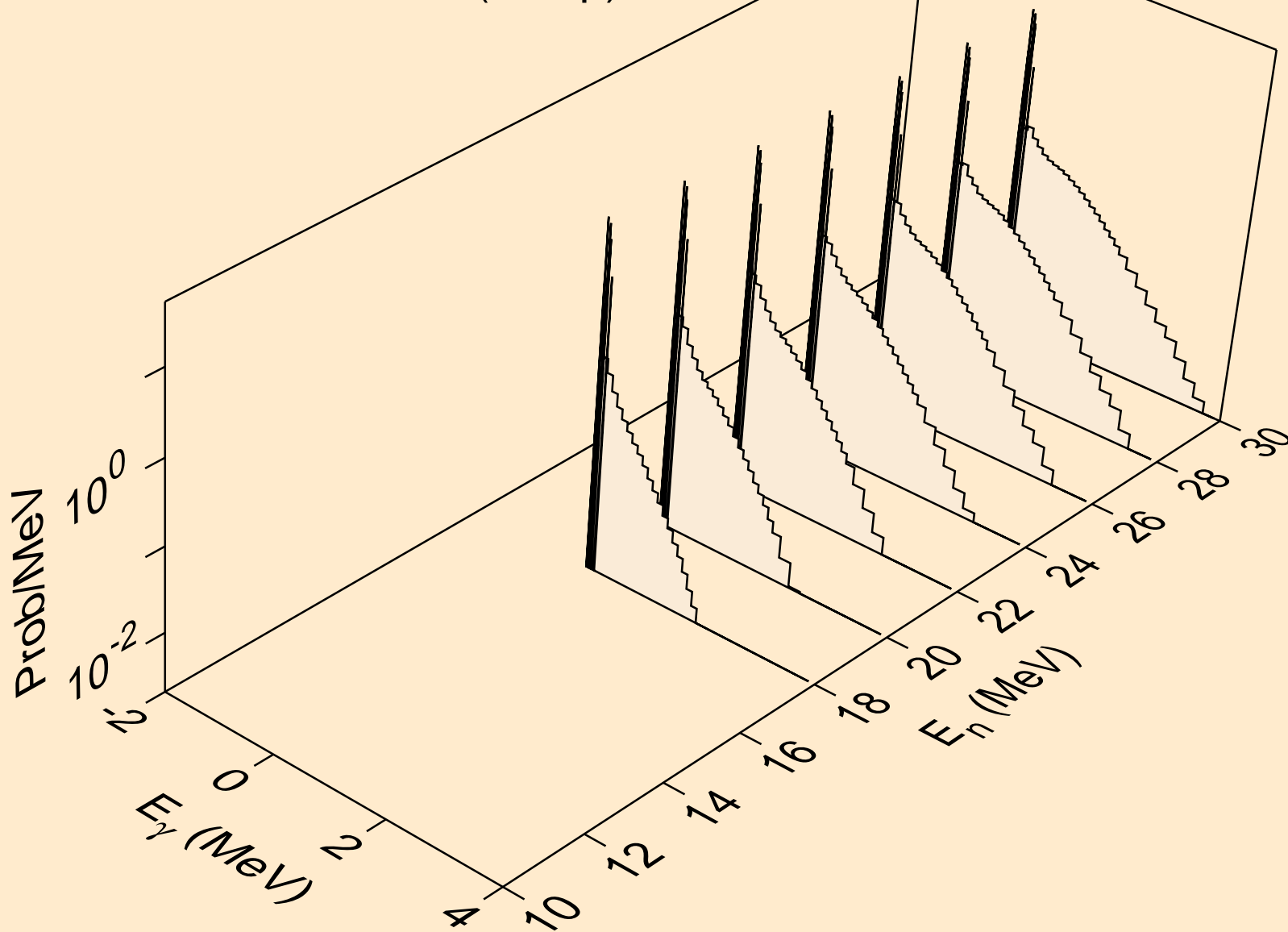
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)he3



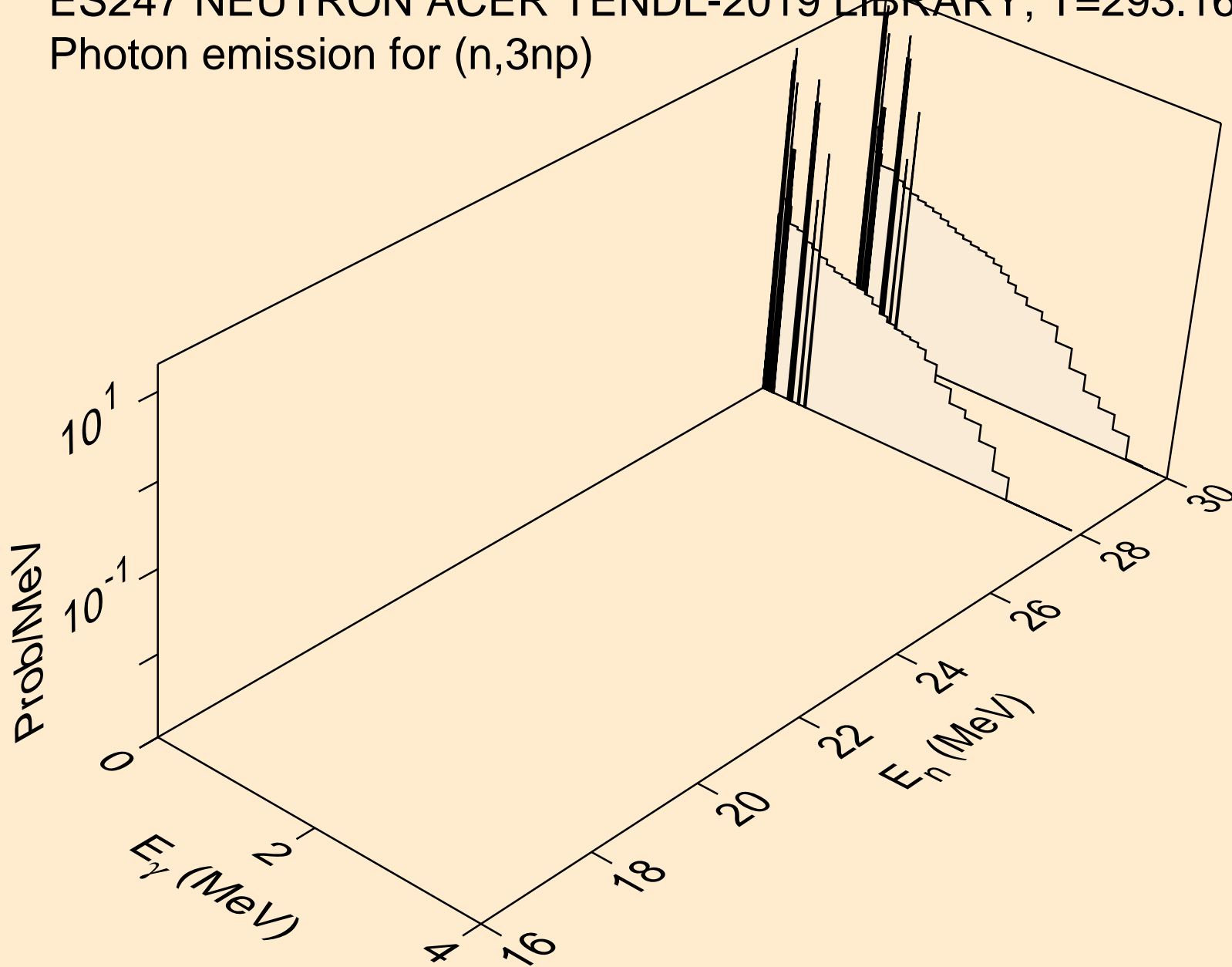
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,4n)



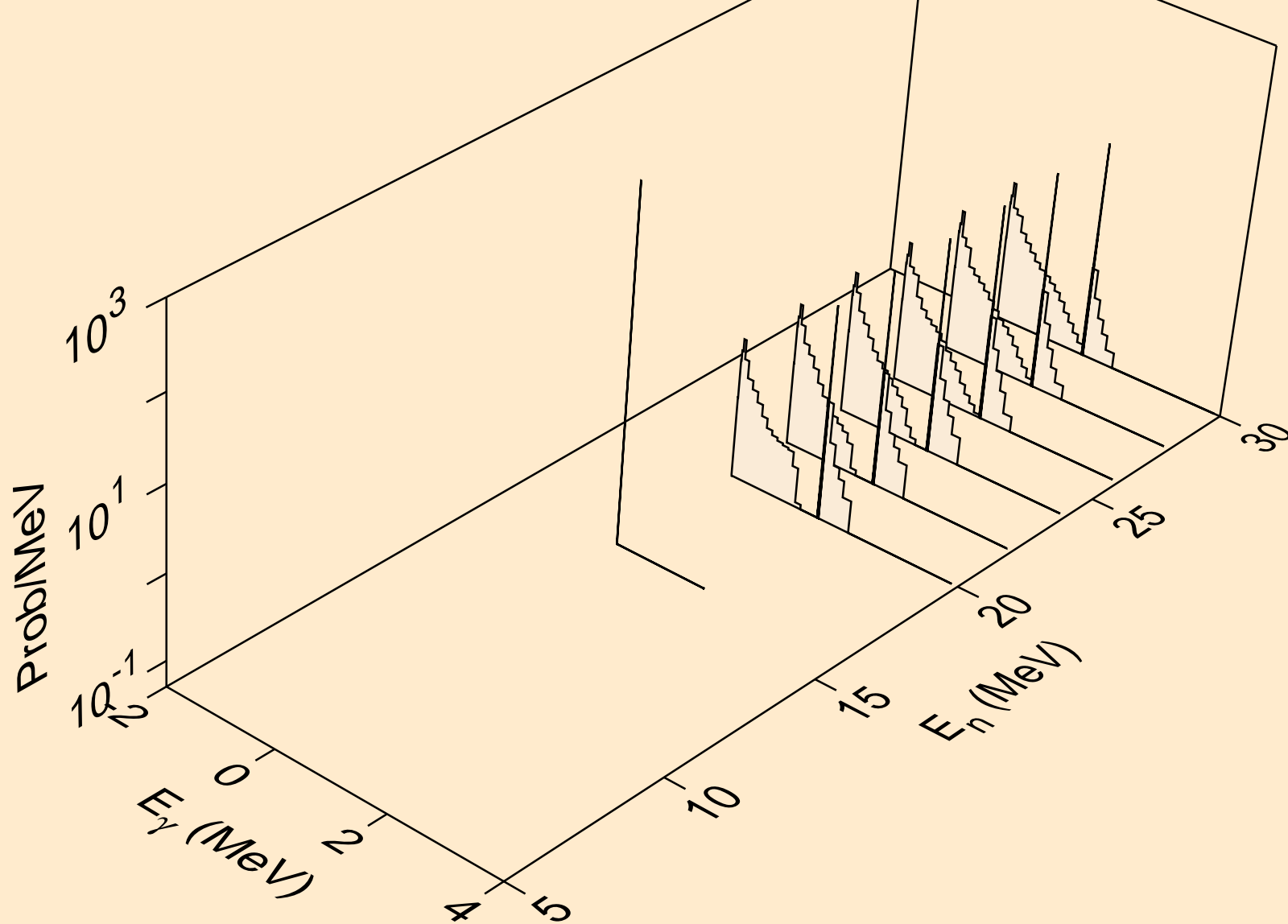
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Photon emission for (n,2np)



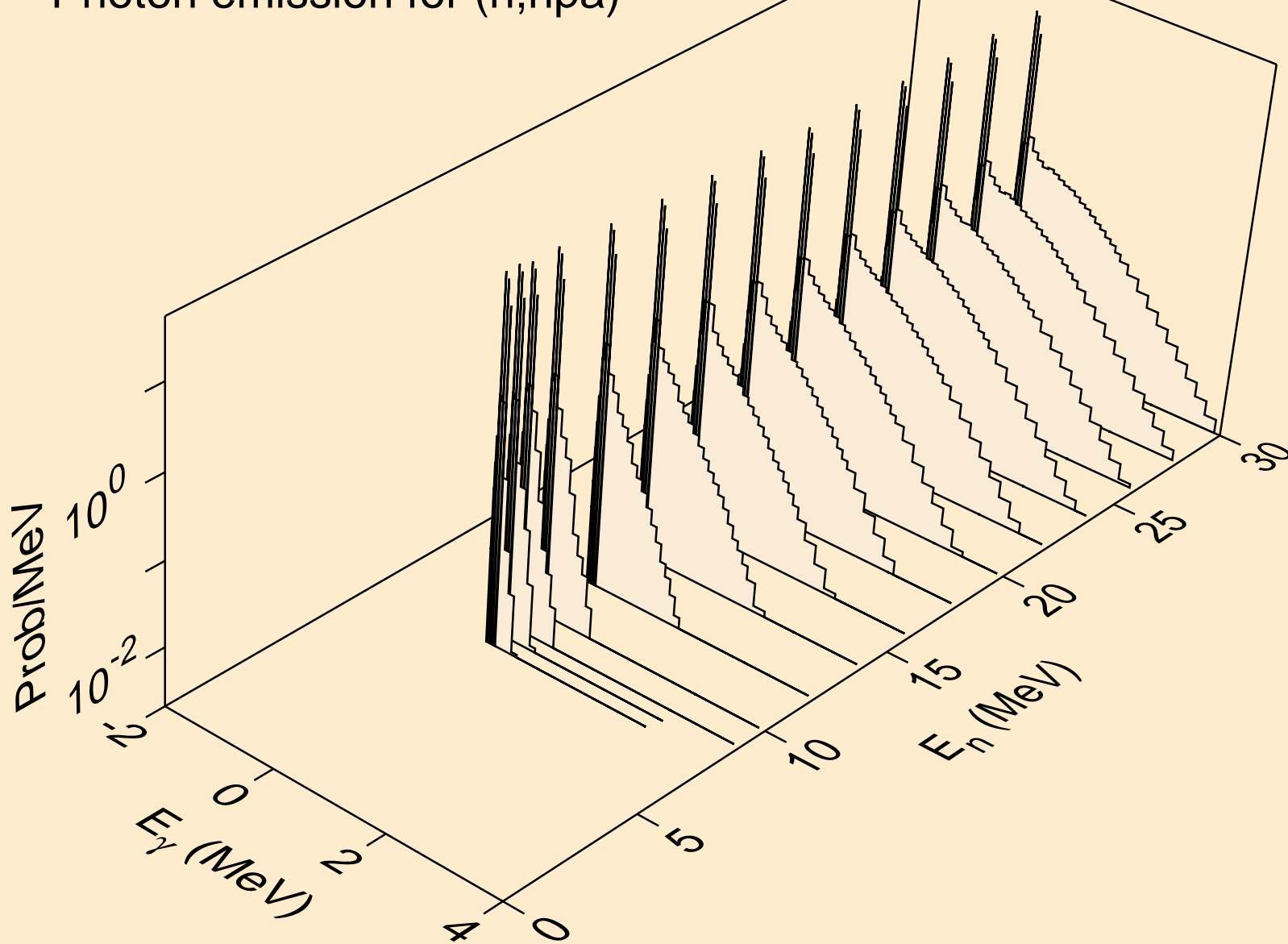
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Photon emission for (n,3np)



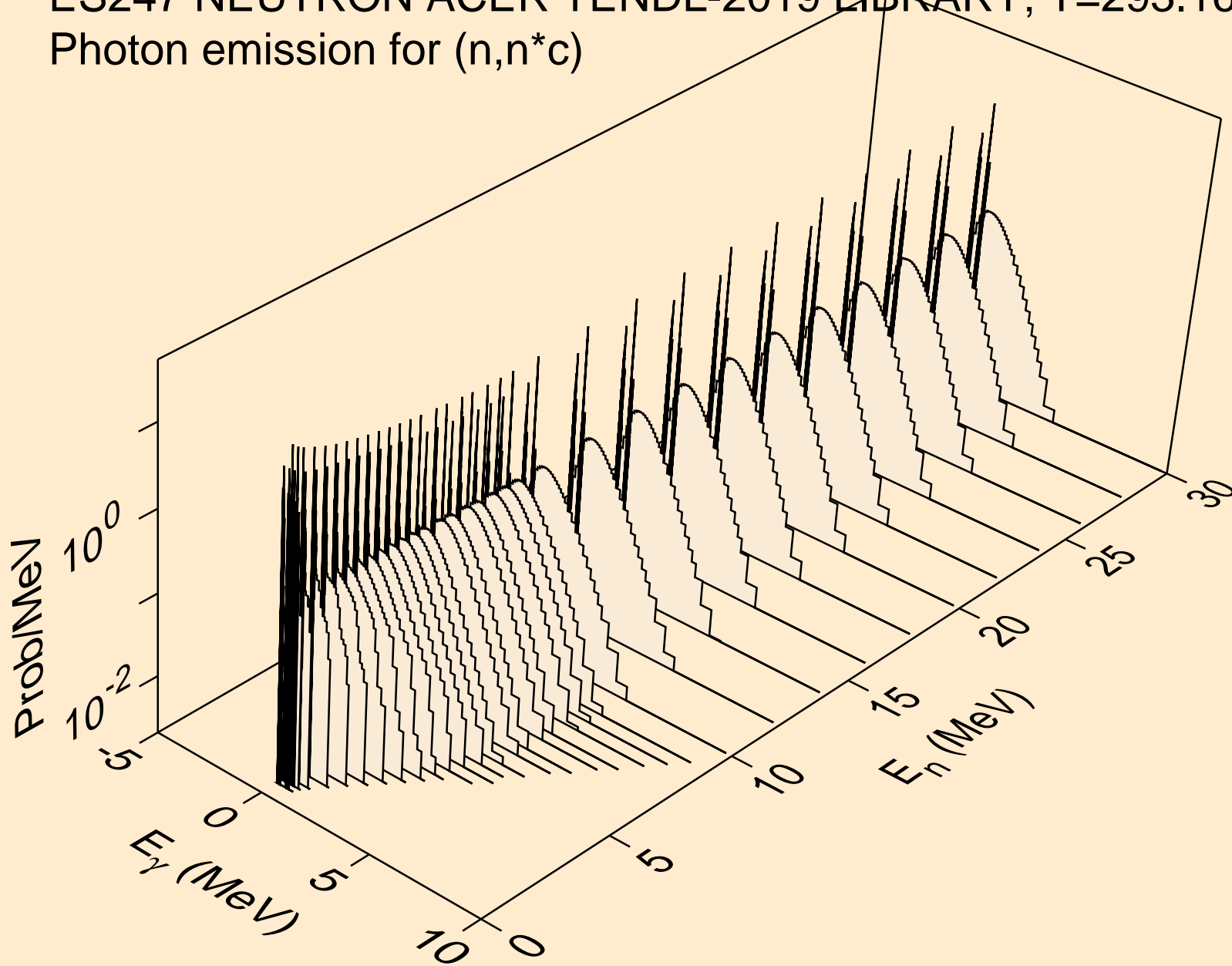
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2np)



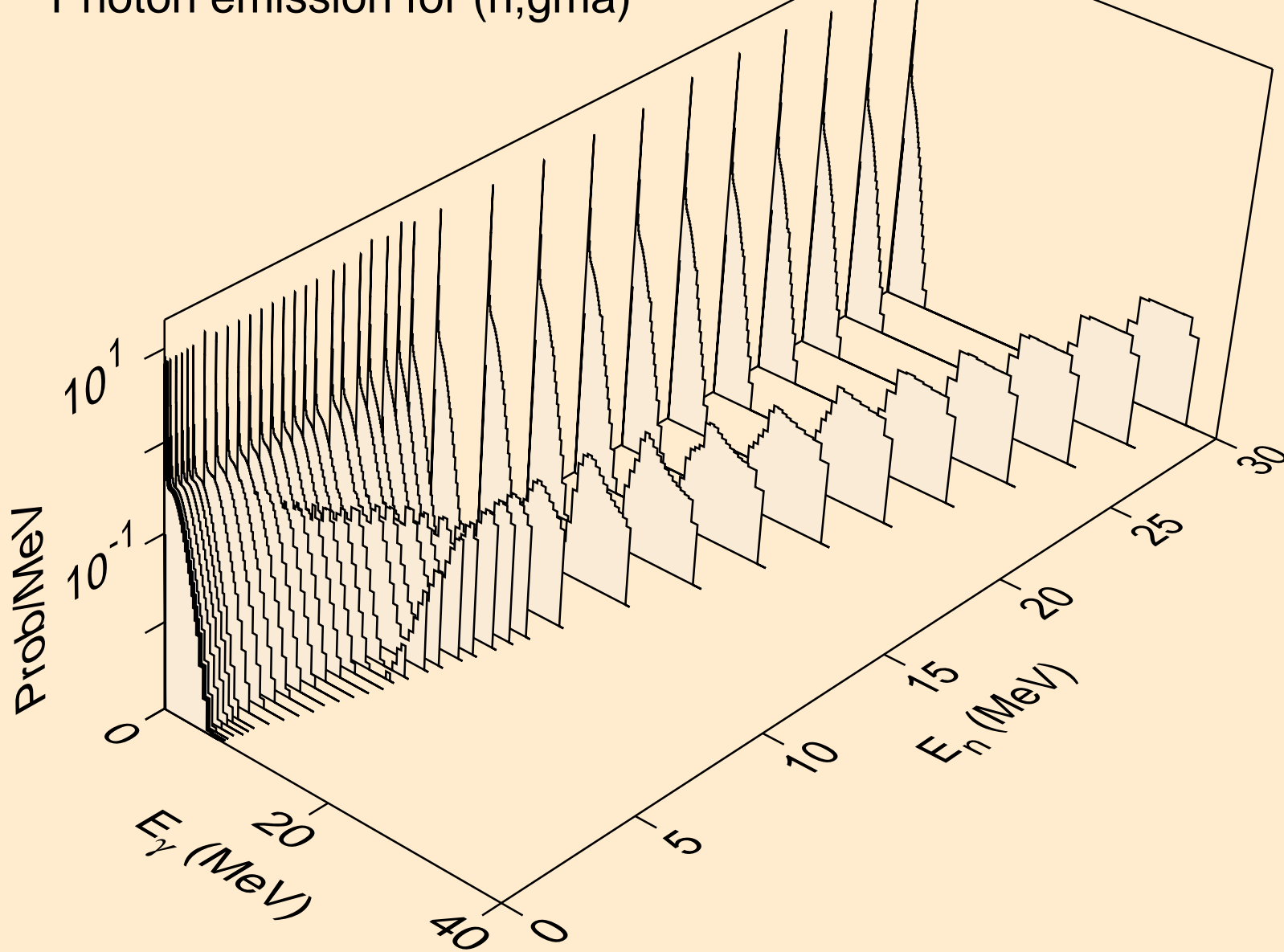
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Photon emission for (n,npa)



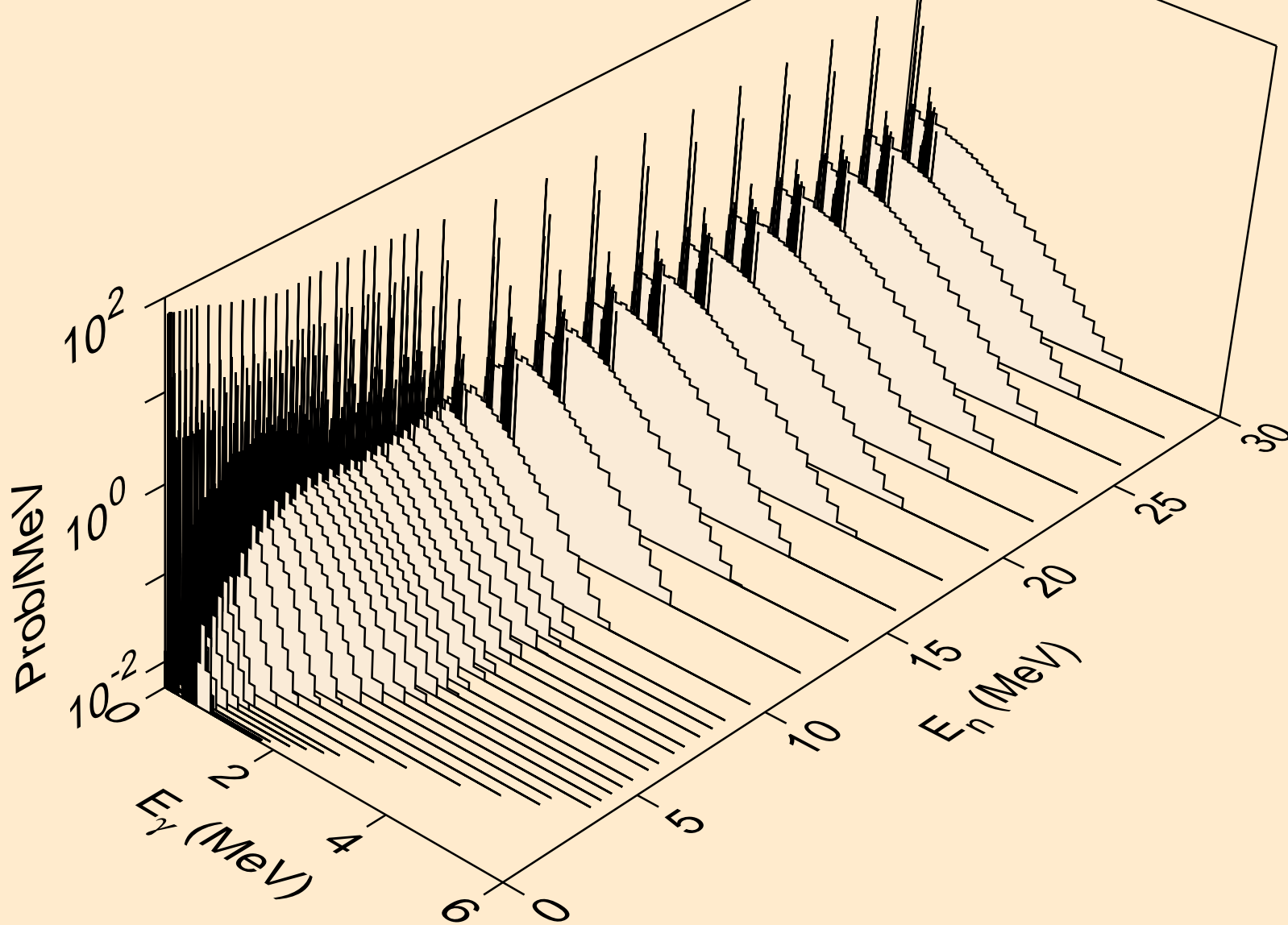
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Photon emission for (n,n\*c)



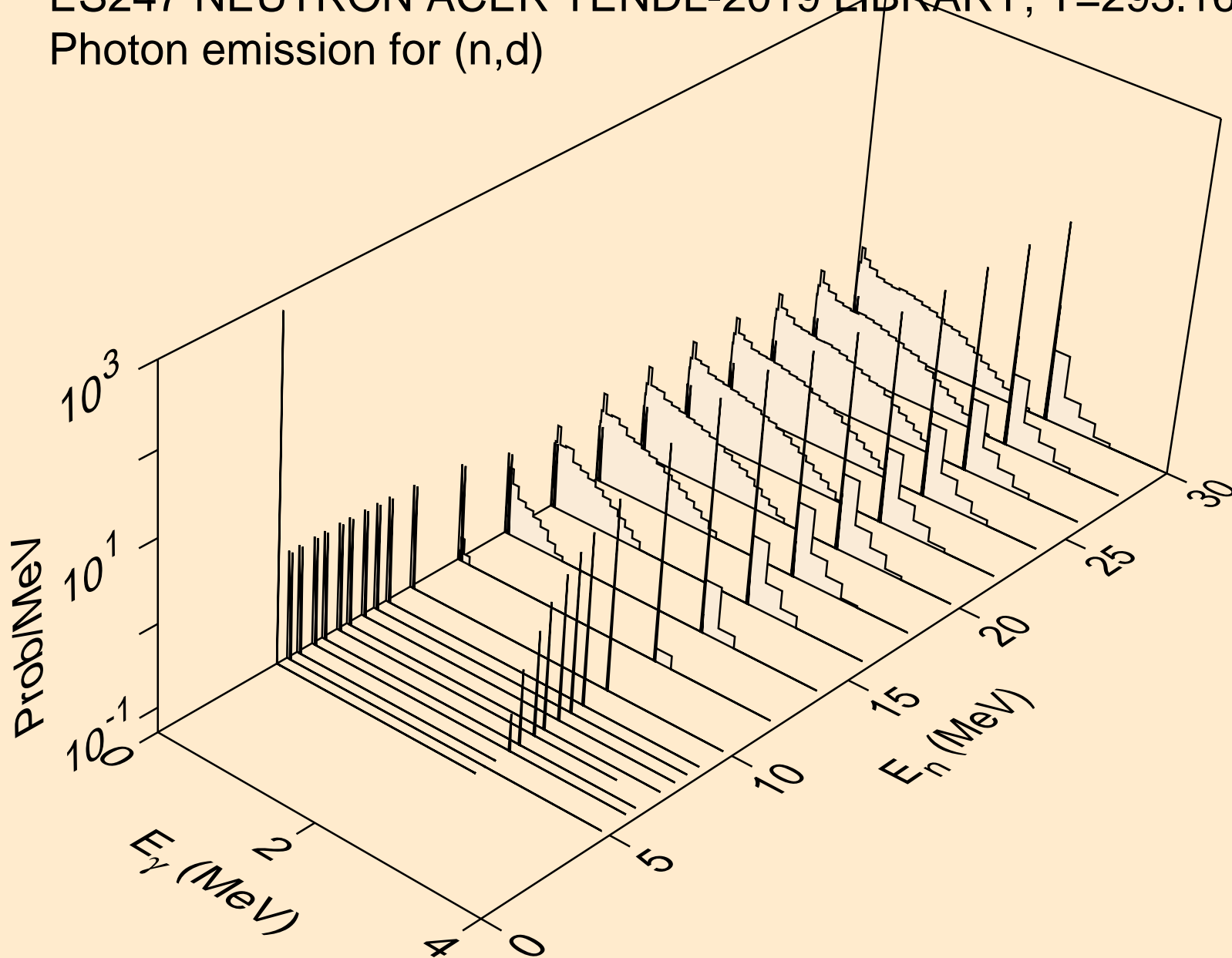
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Photon emission for (n,gma)



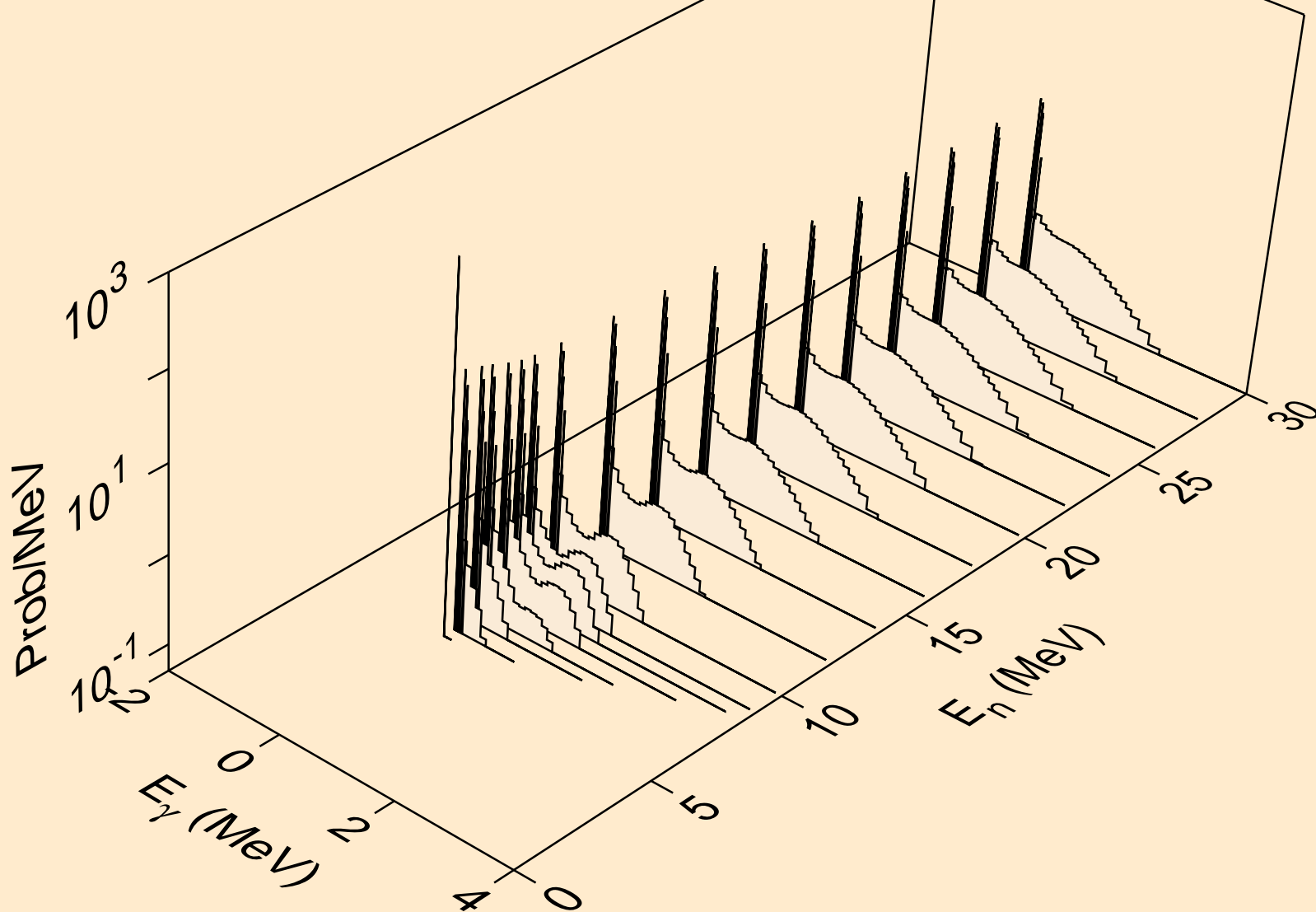
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Photon emission for (n,p)



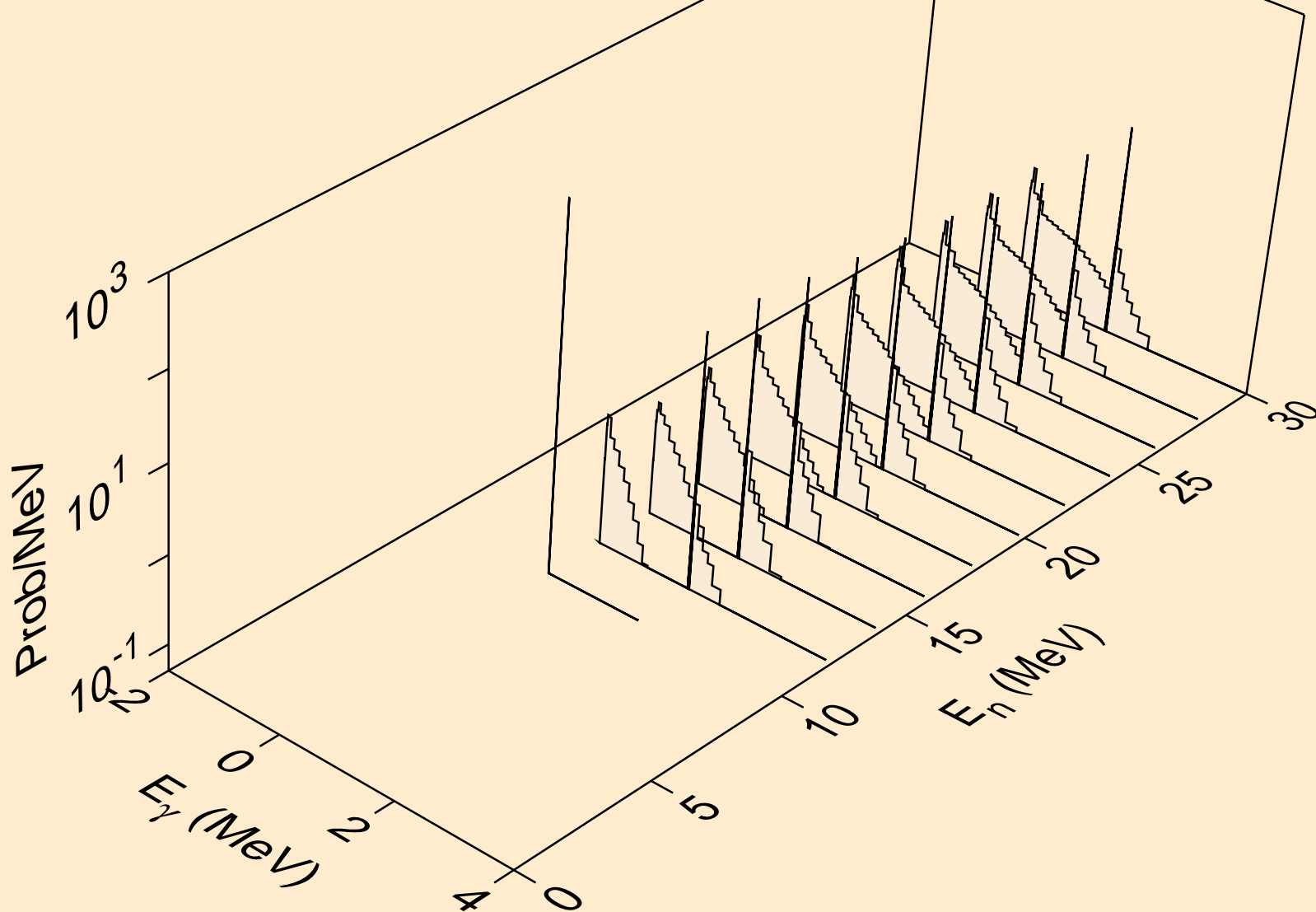
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Photon emission for (n,d)



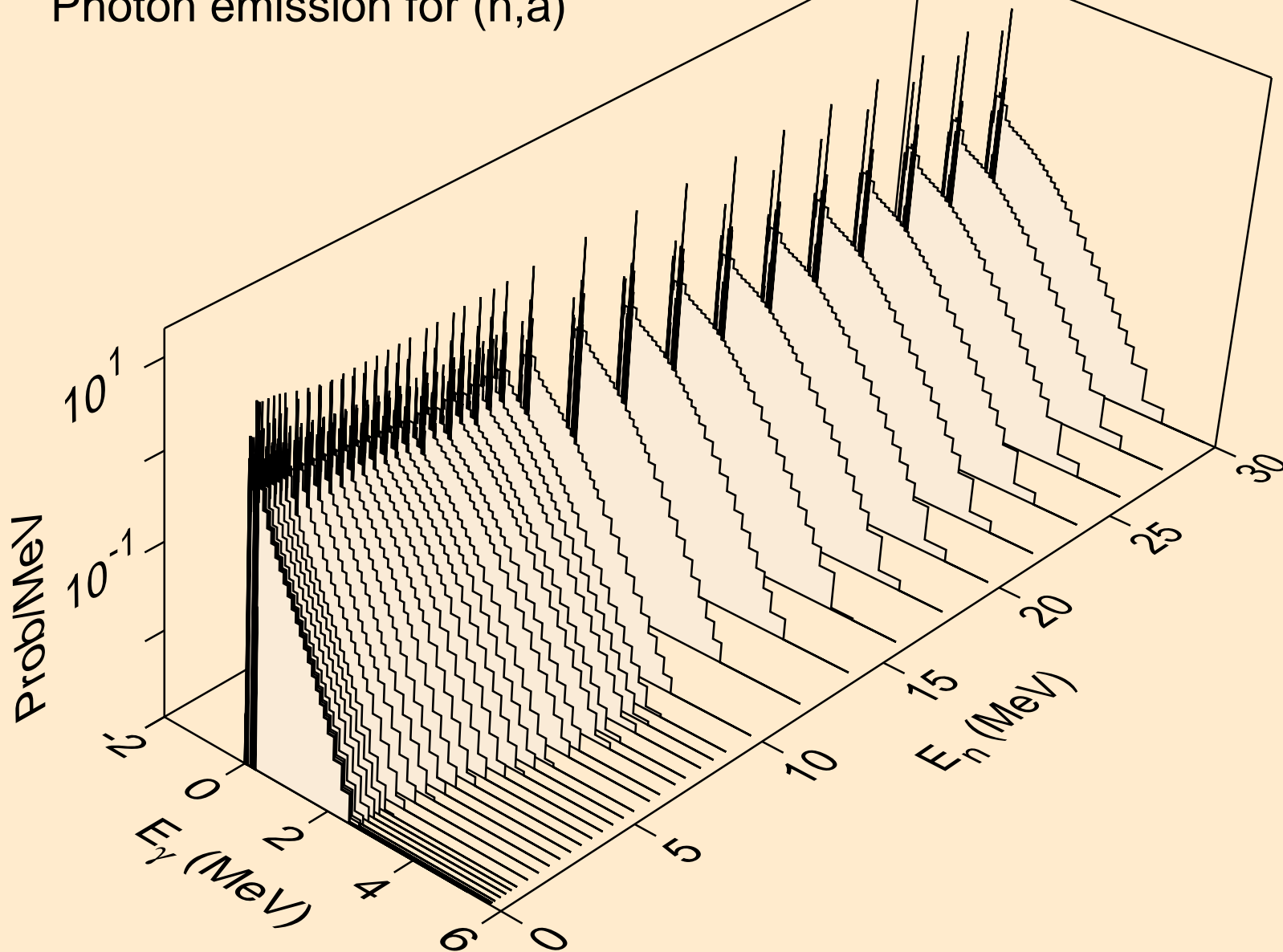
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Photon emission for (n,t)



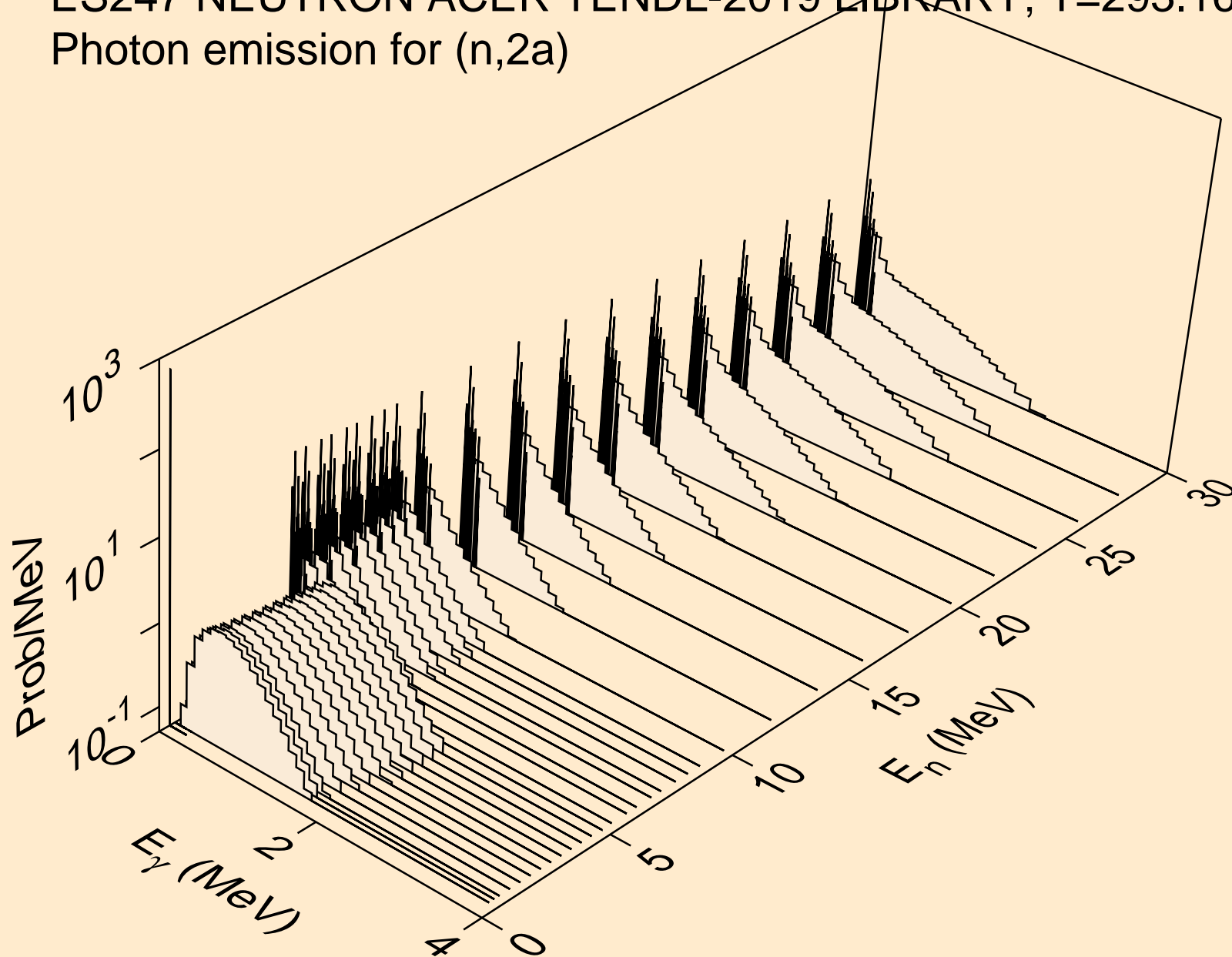
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Photon emission for (n,he3)



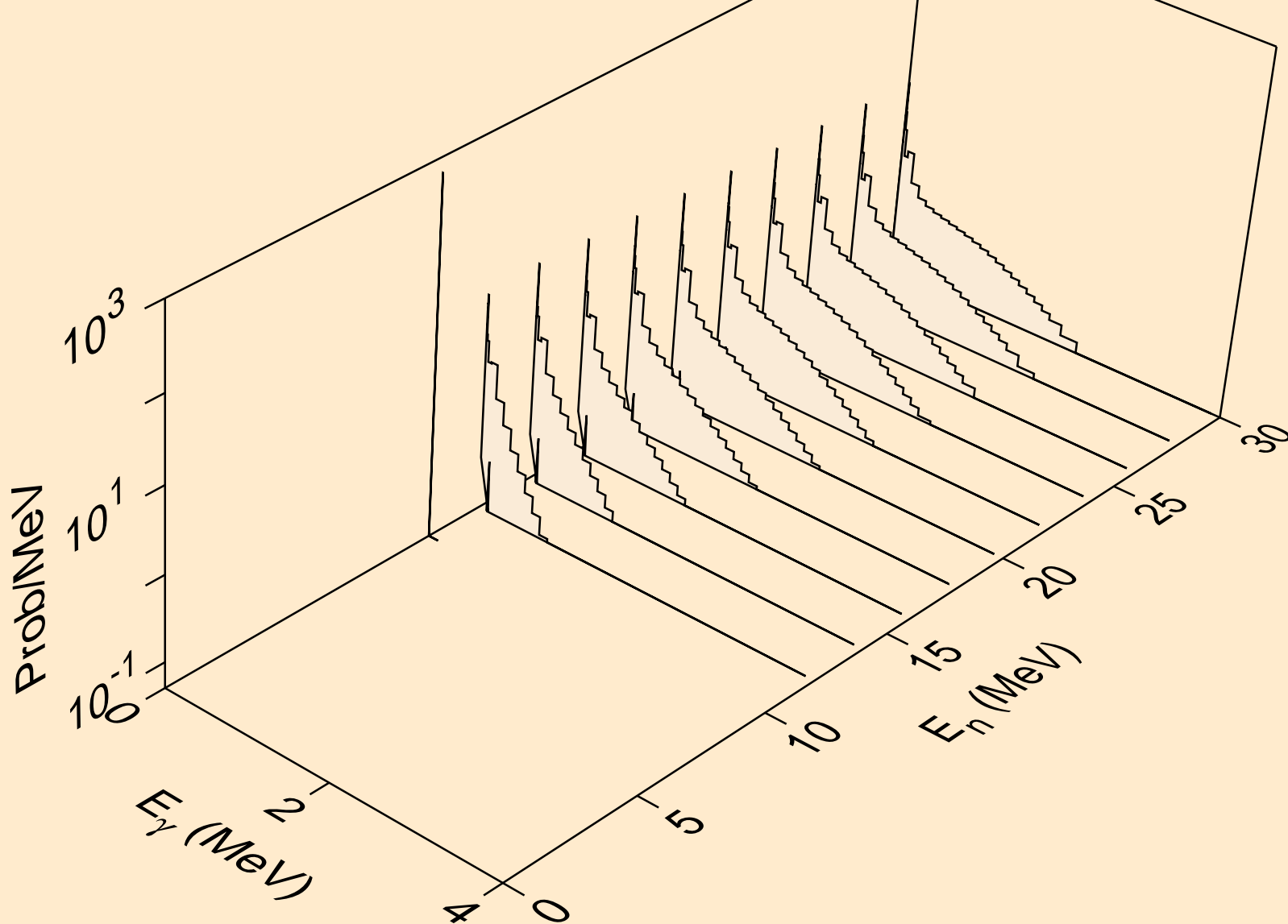
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Photon emission for (n,a)



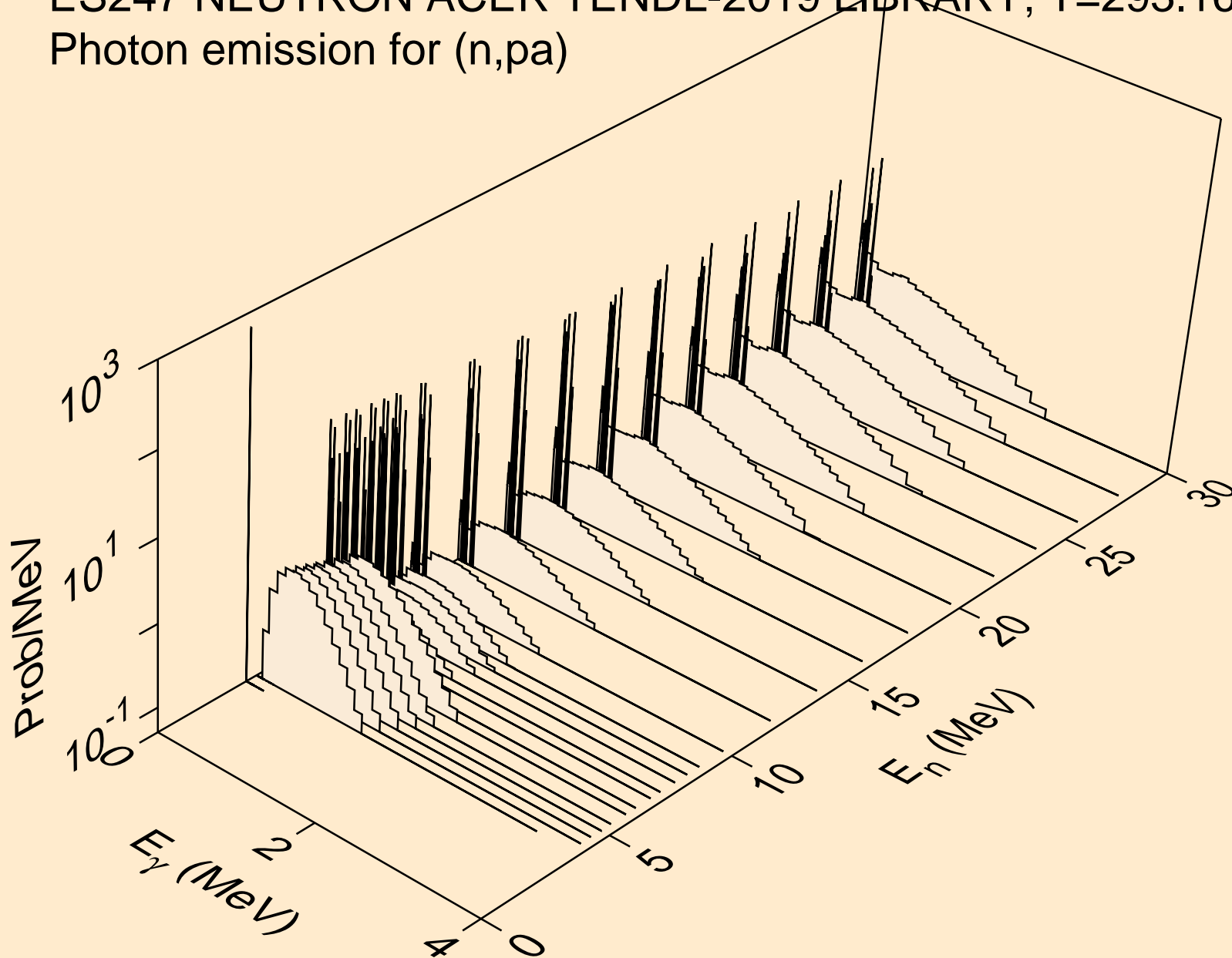
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Photon emission for (n,2a)



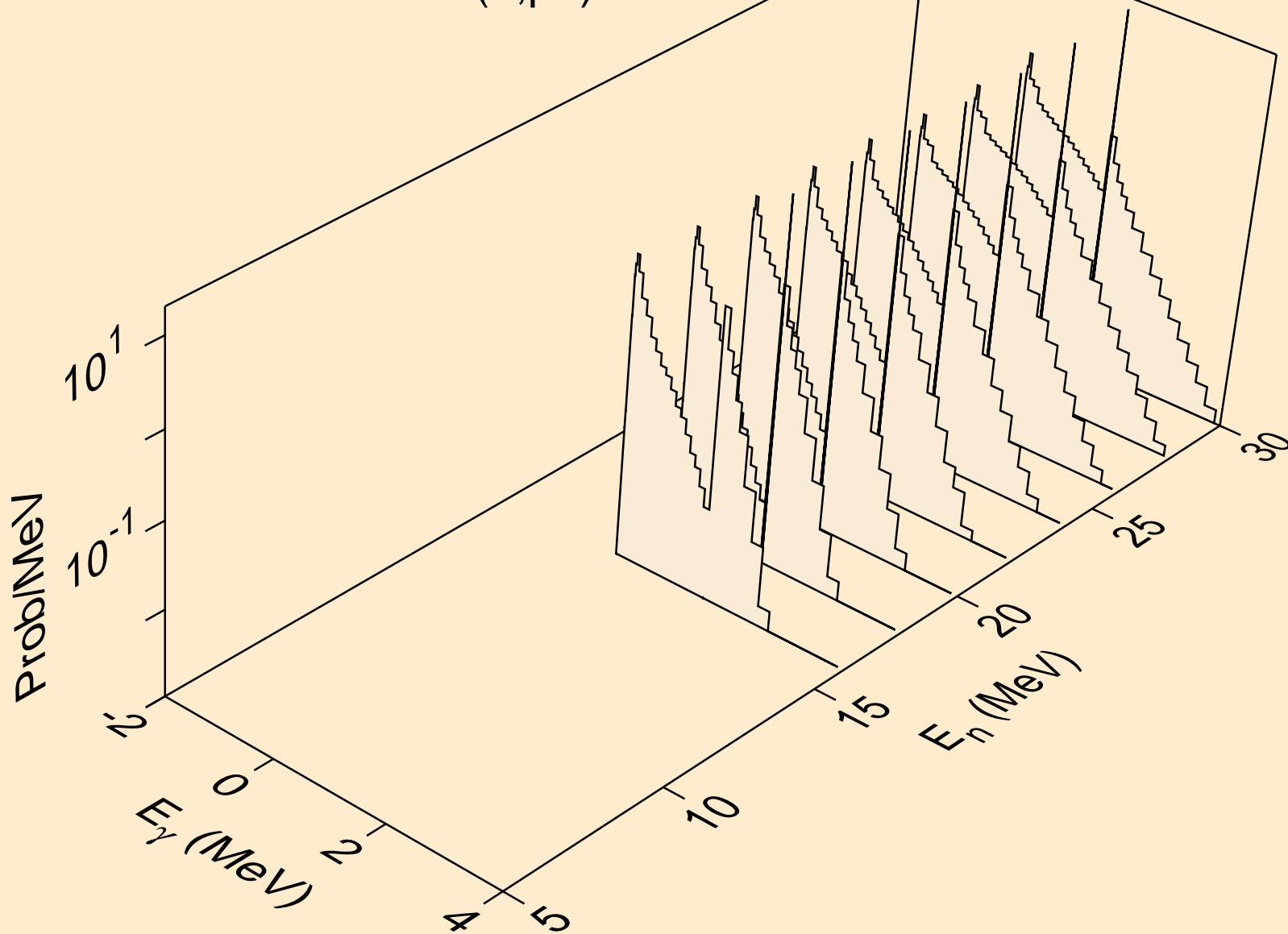
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Photon emission for (n,2p)



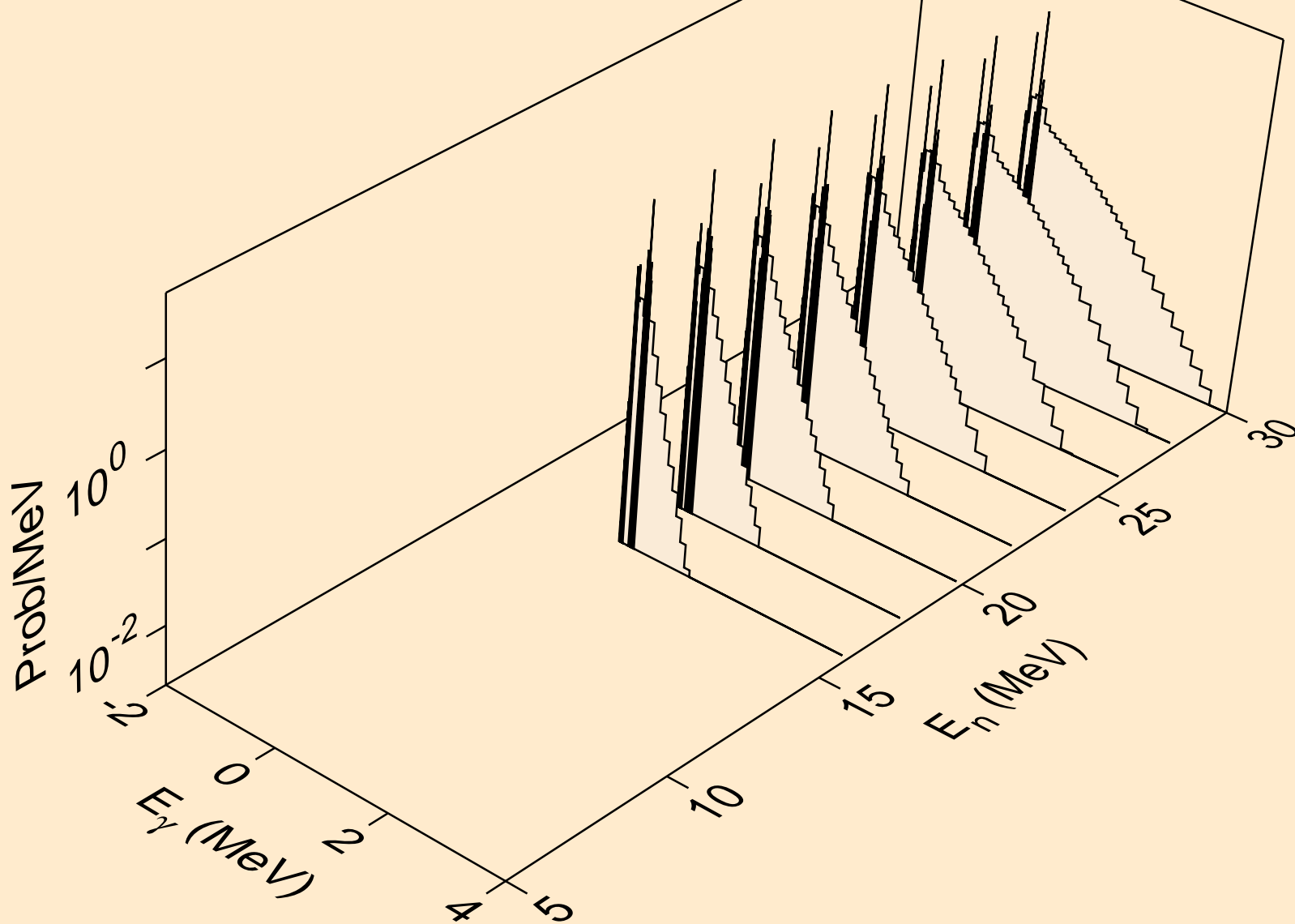
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Photon emission for (n,p)



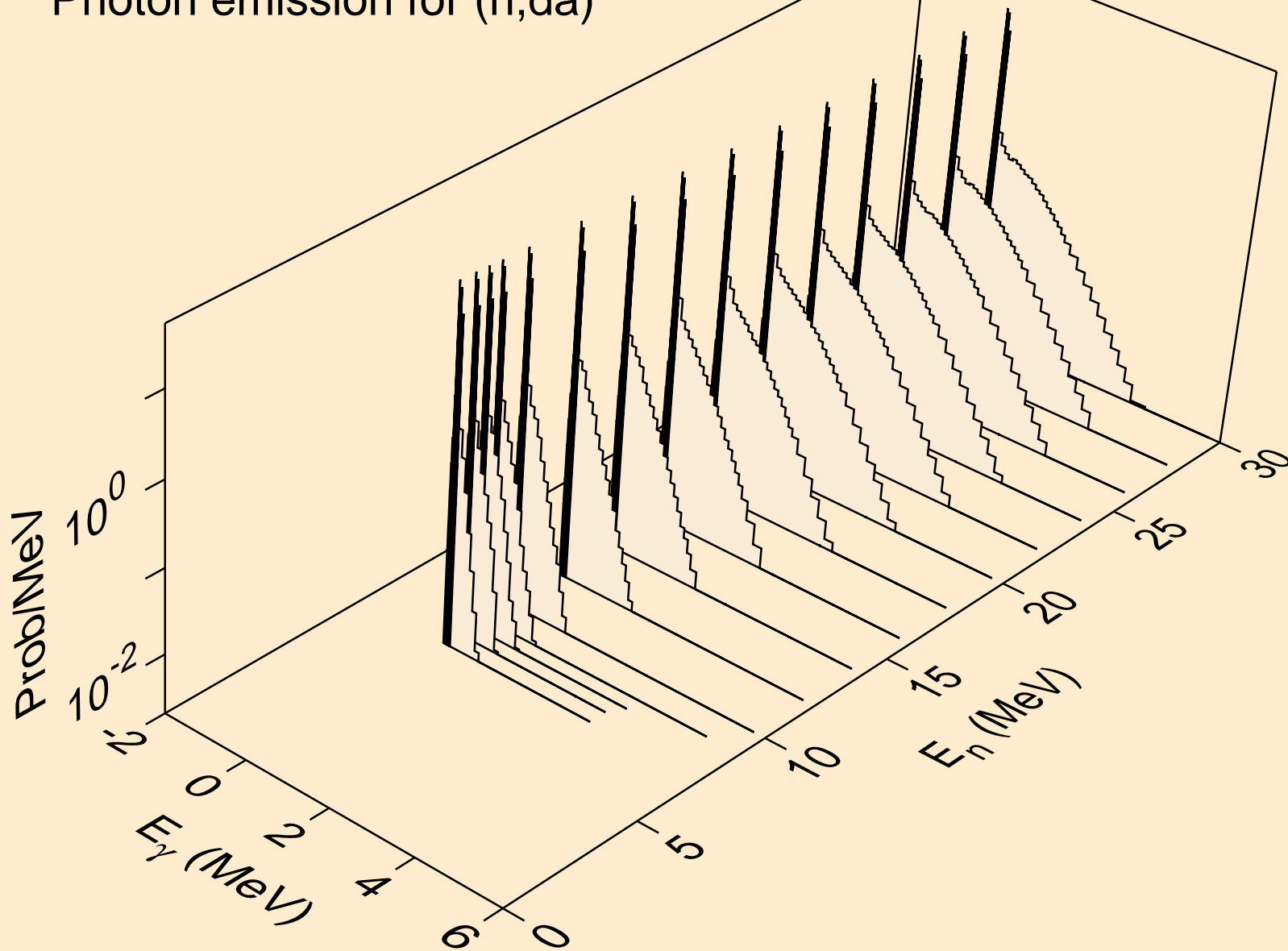
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Photon emission for (n,pd)



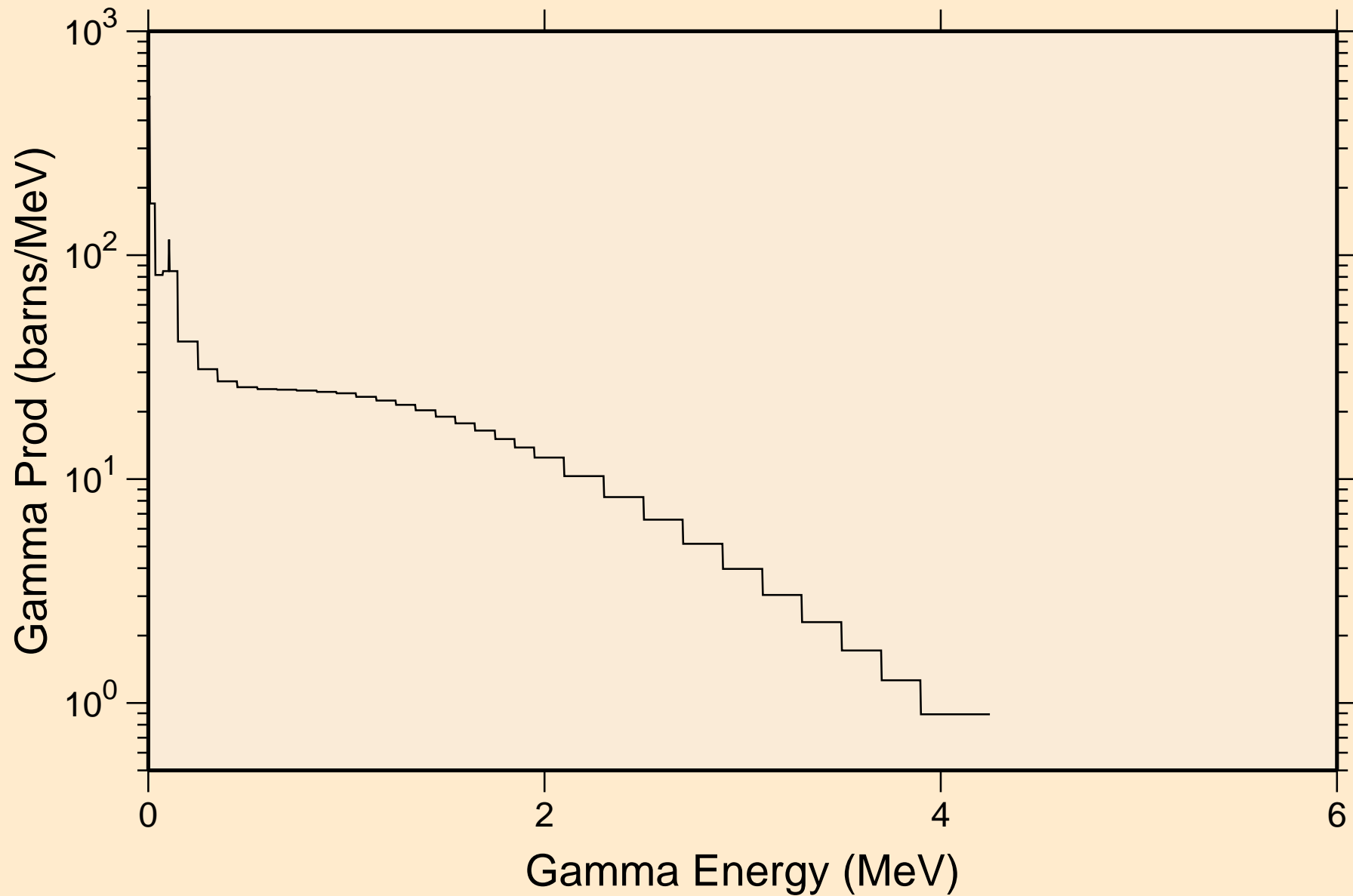
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Photon emission for (n,pt)



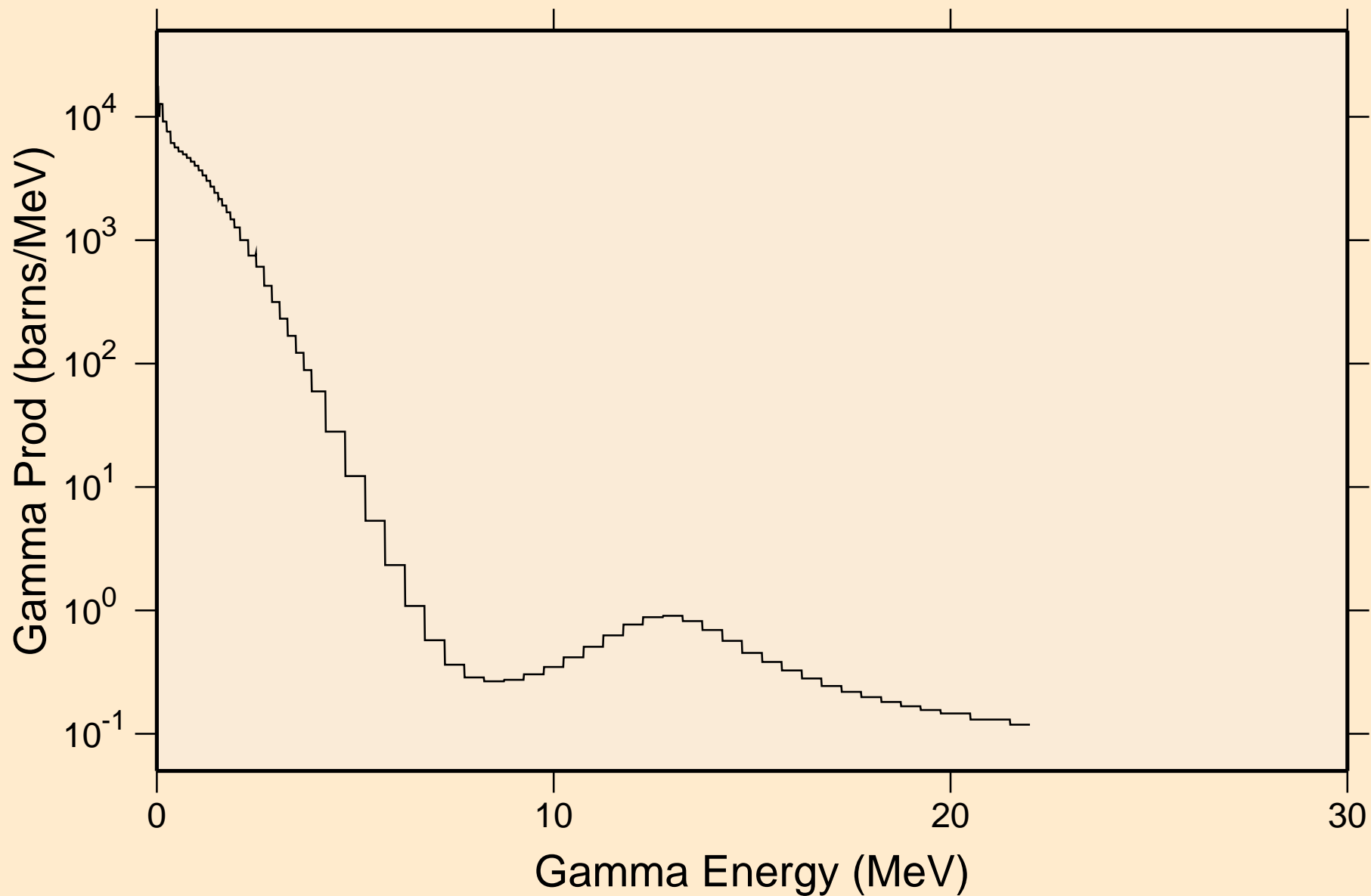
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,da)



ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
thermal capture photon spectrum

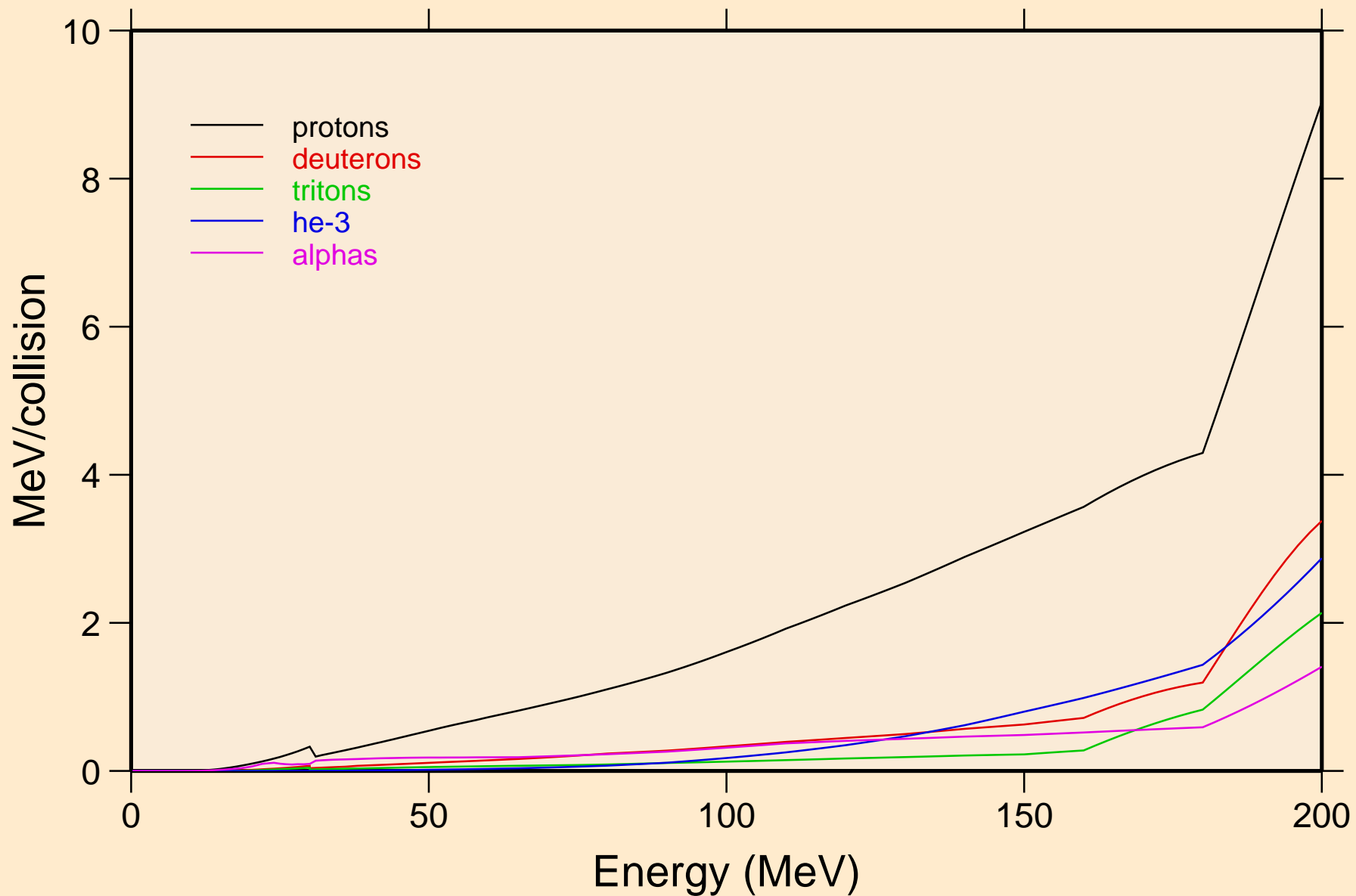


ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
14 MeV photon spectrum

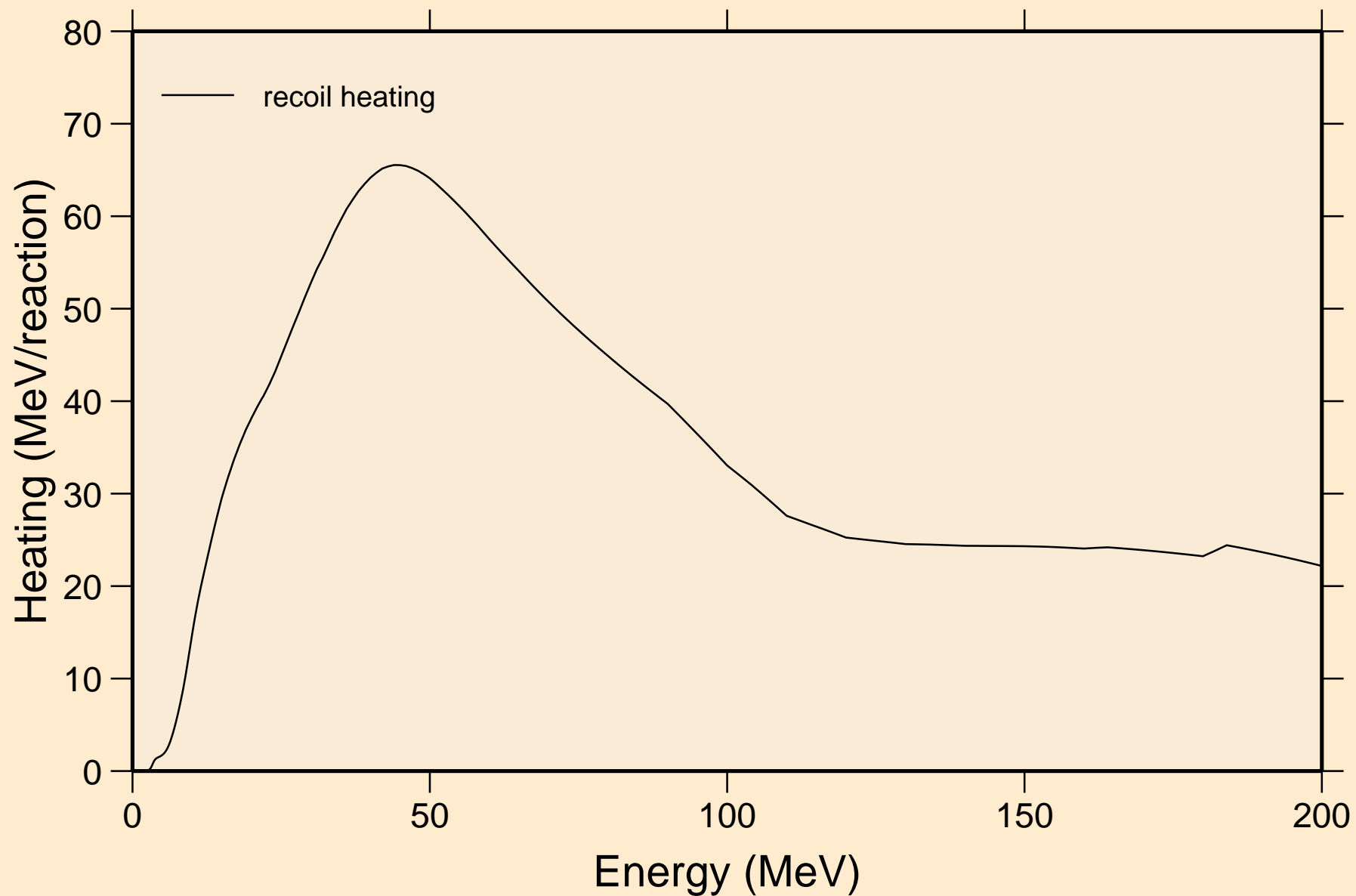


# ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Particle heating contributions

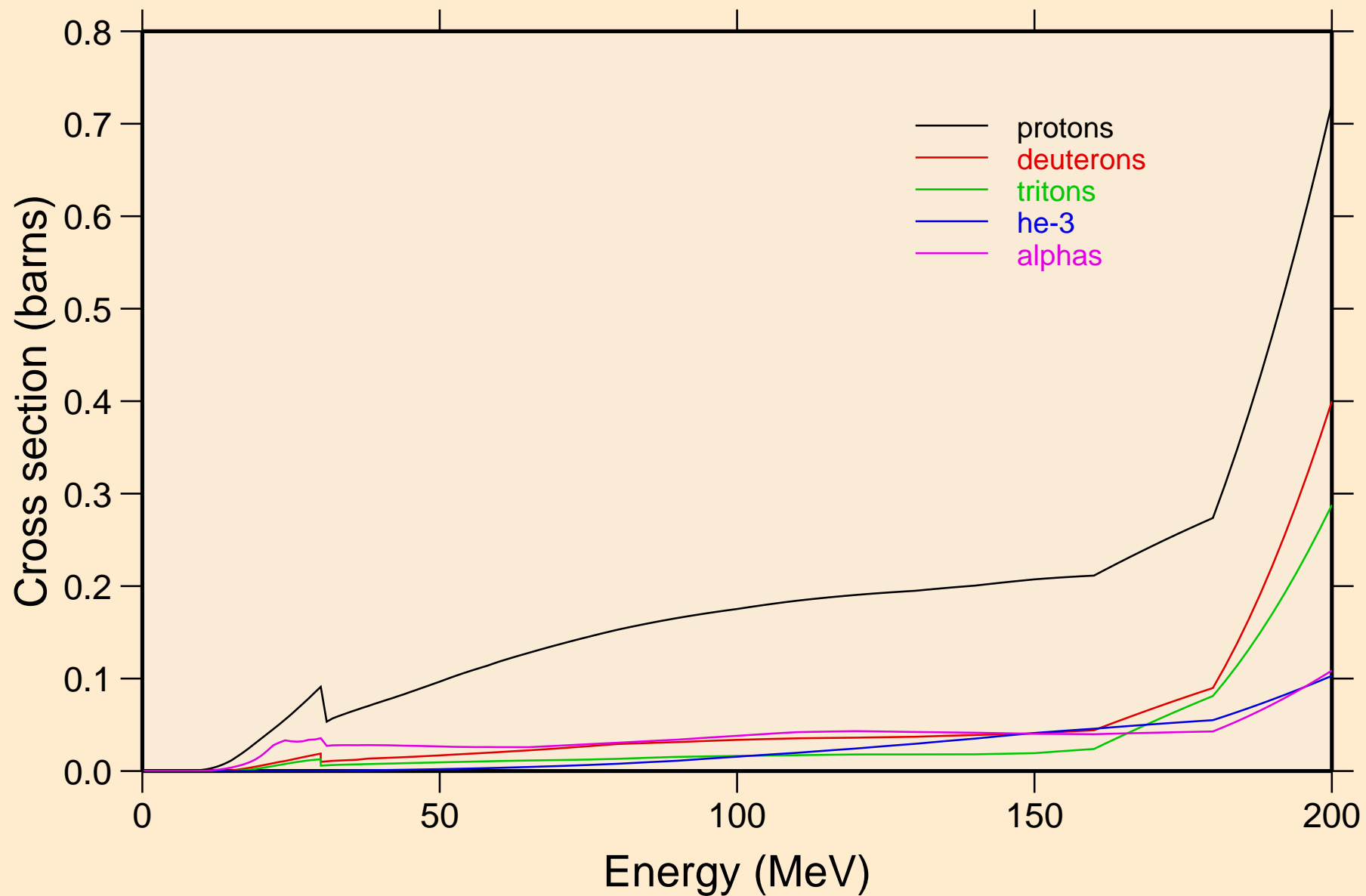


ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Recoil Heating

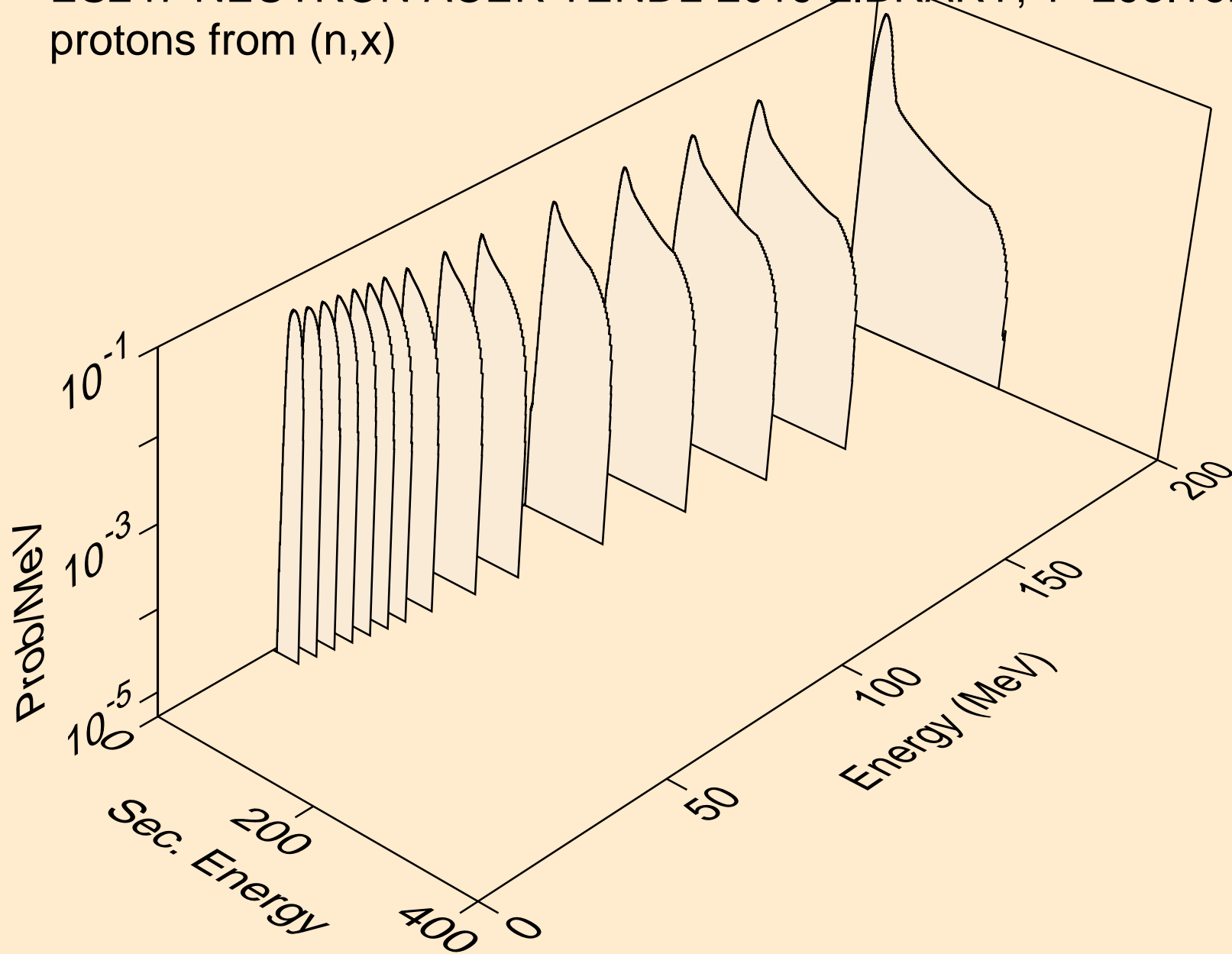


# ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

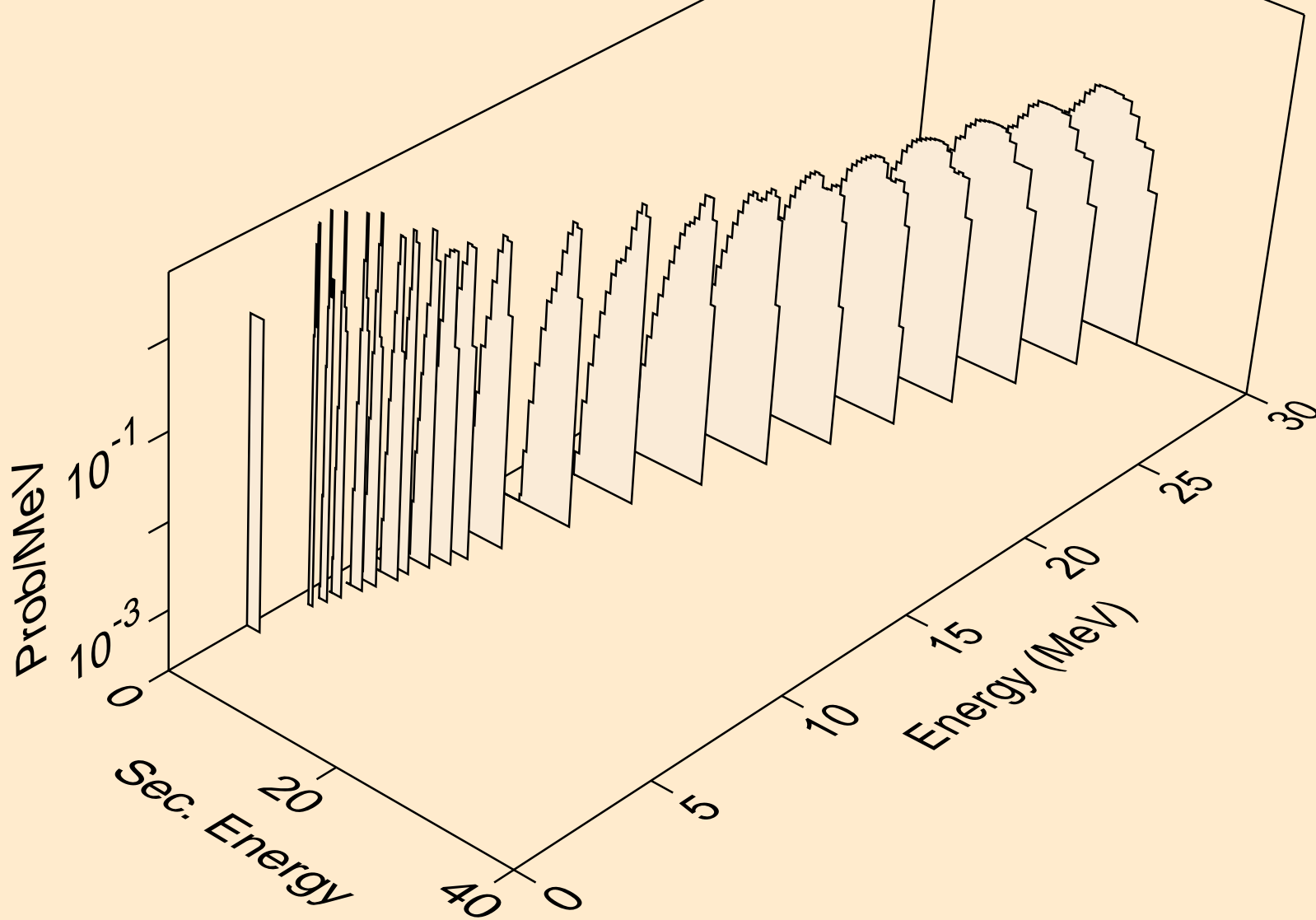
## Particle production cross sections



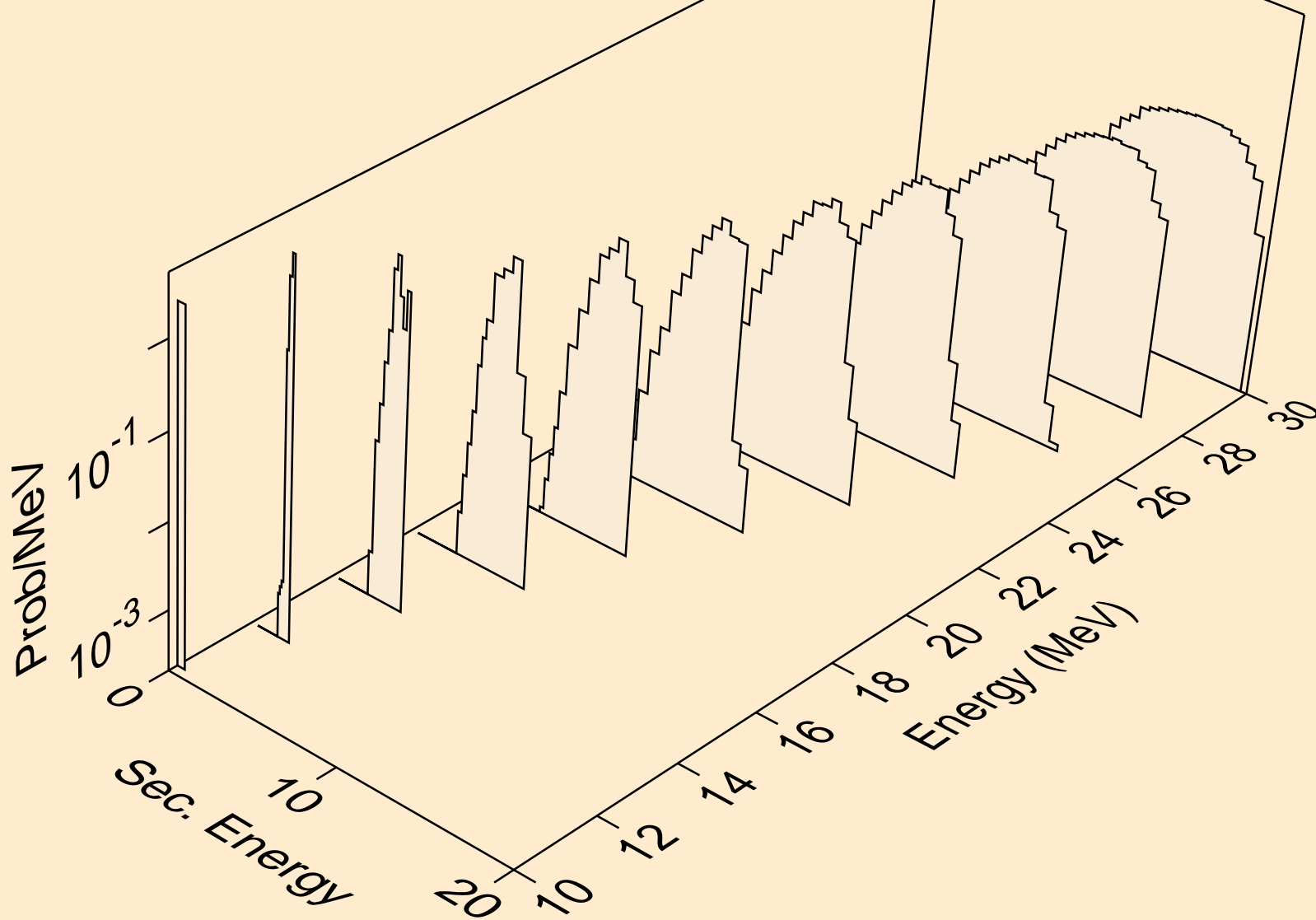
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,x)



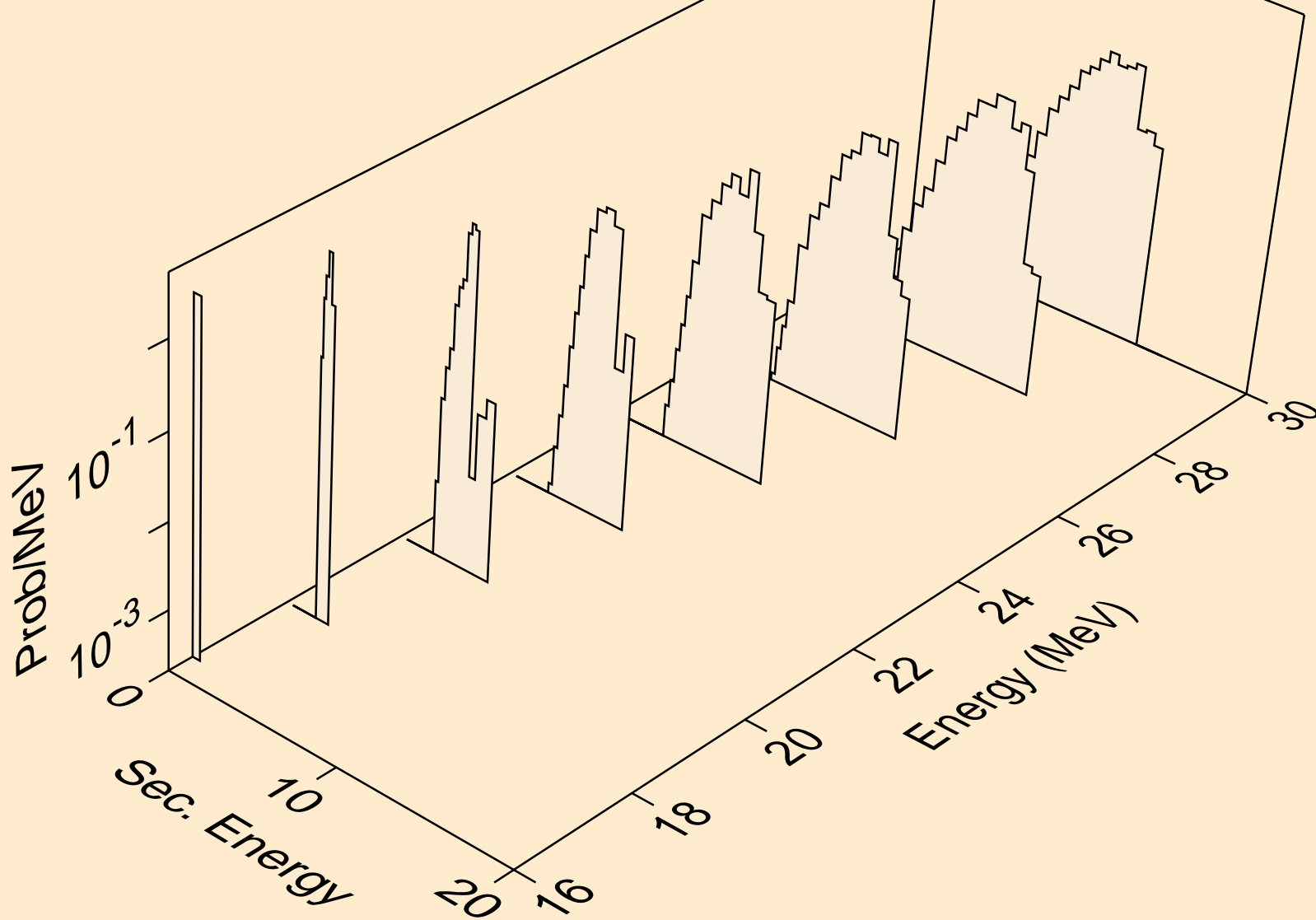
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protons from (n,n\*)p



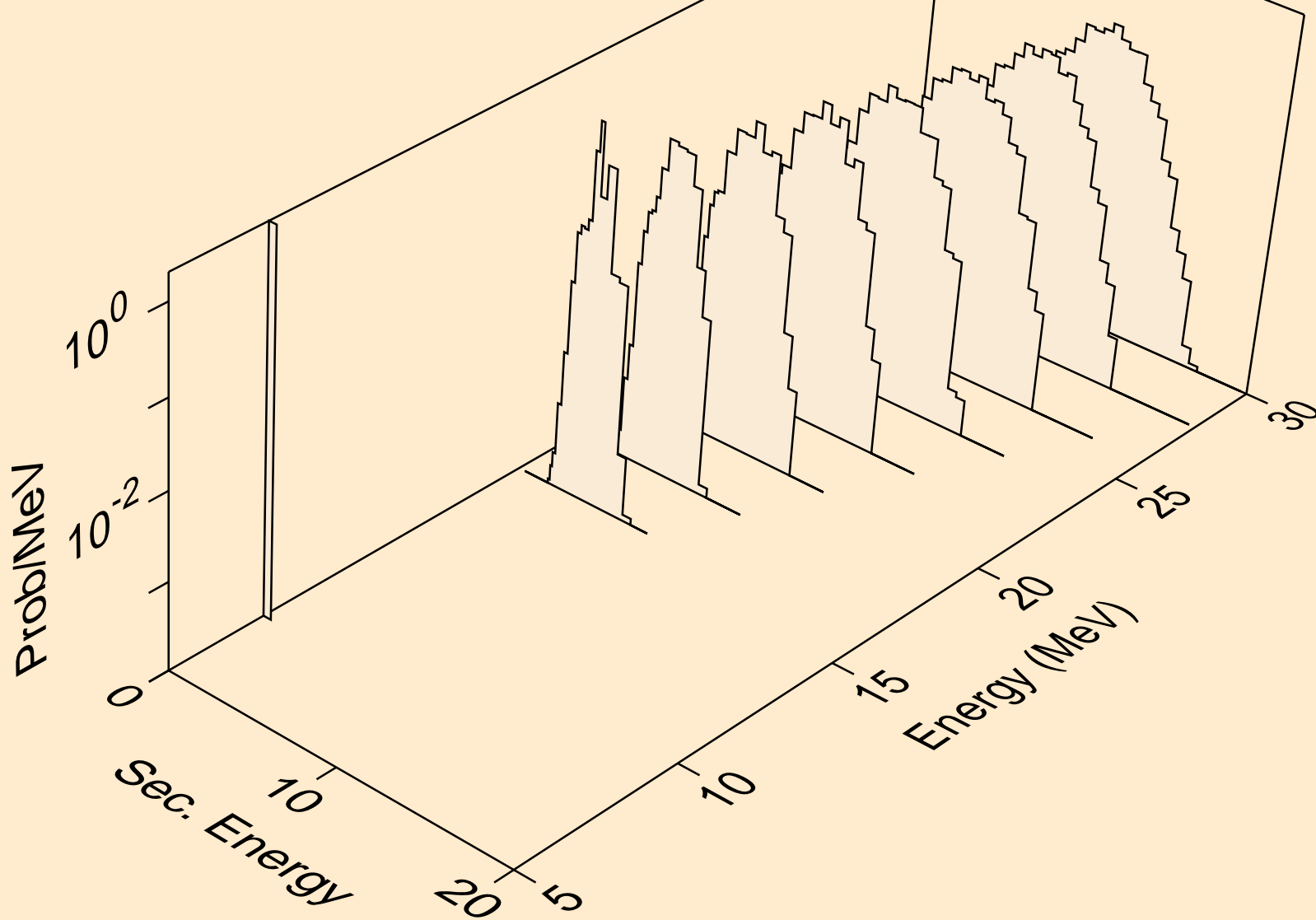
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protons from (n,2np)



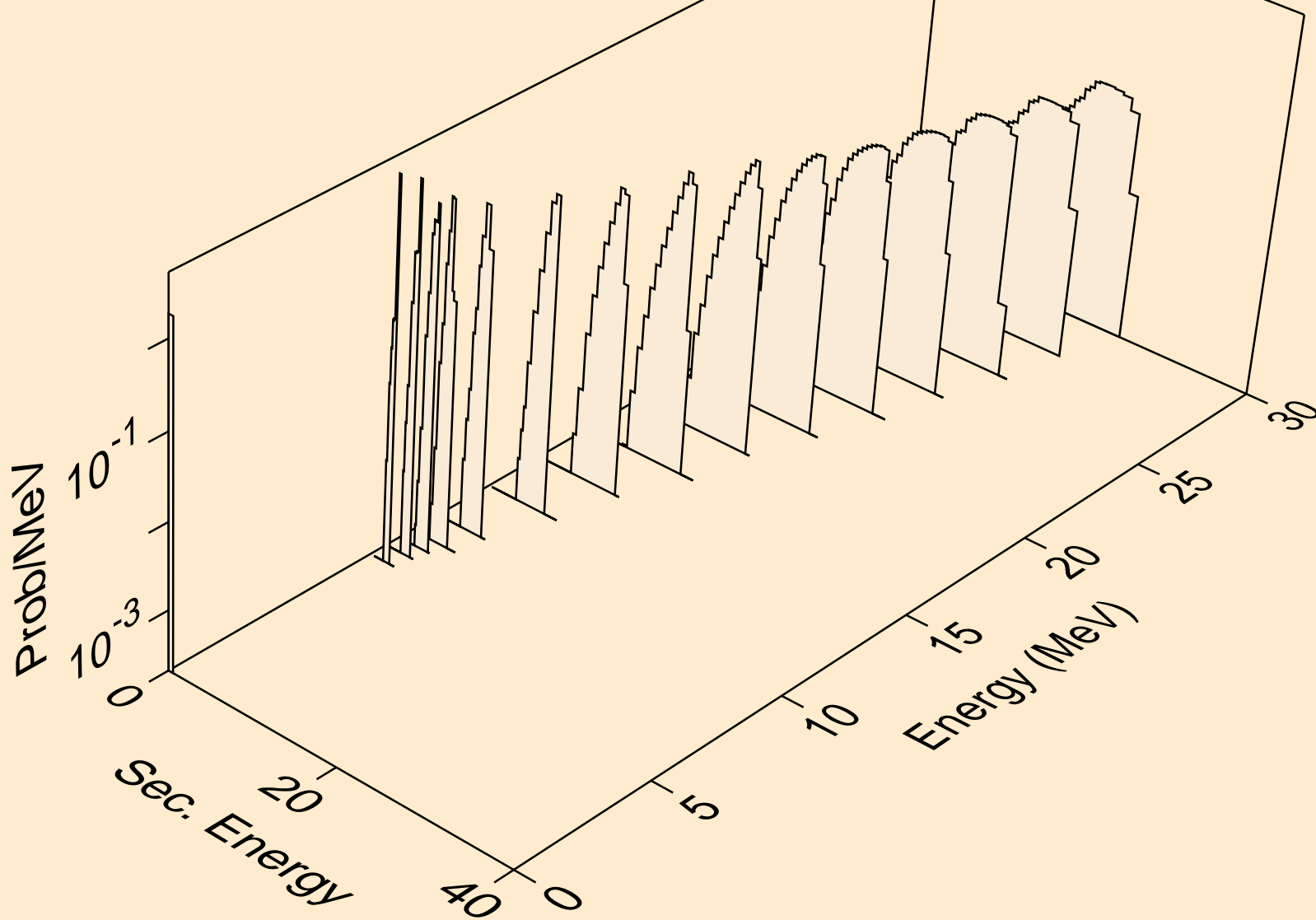
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protons from (n,3np)



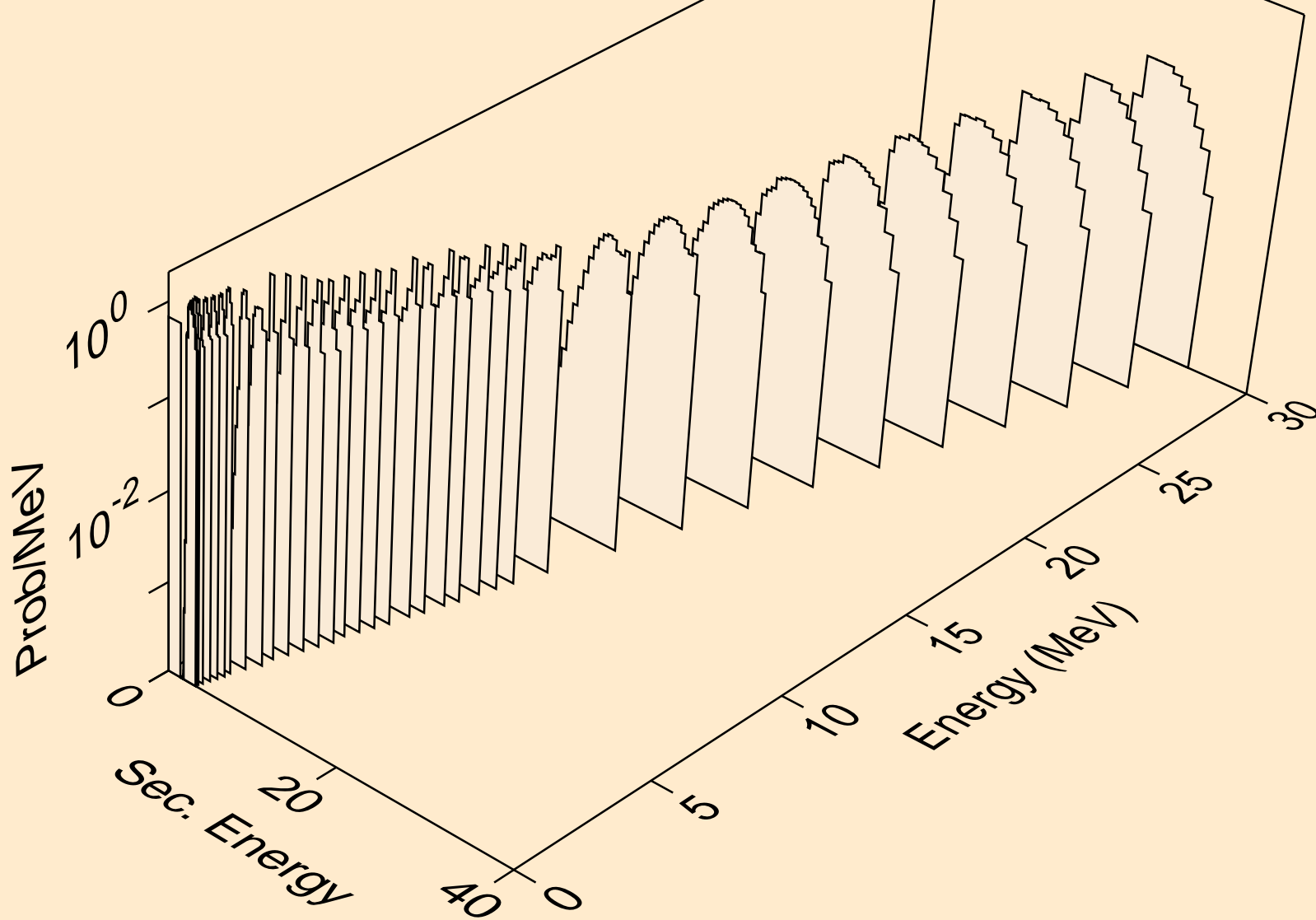
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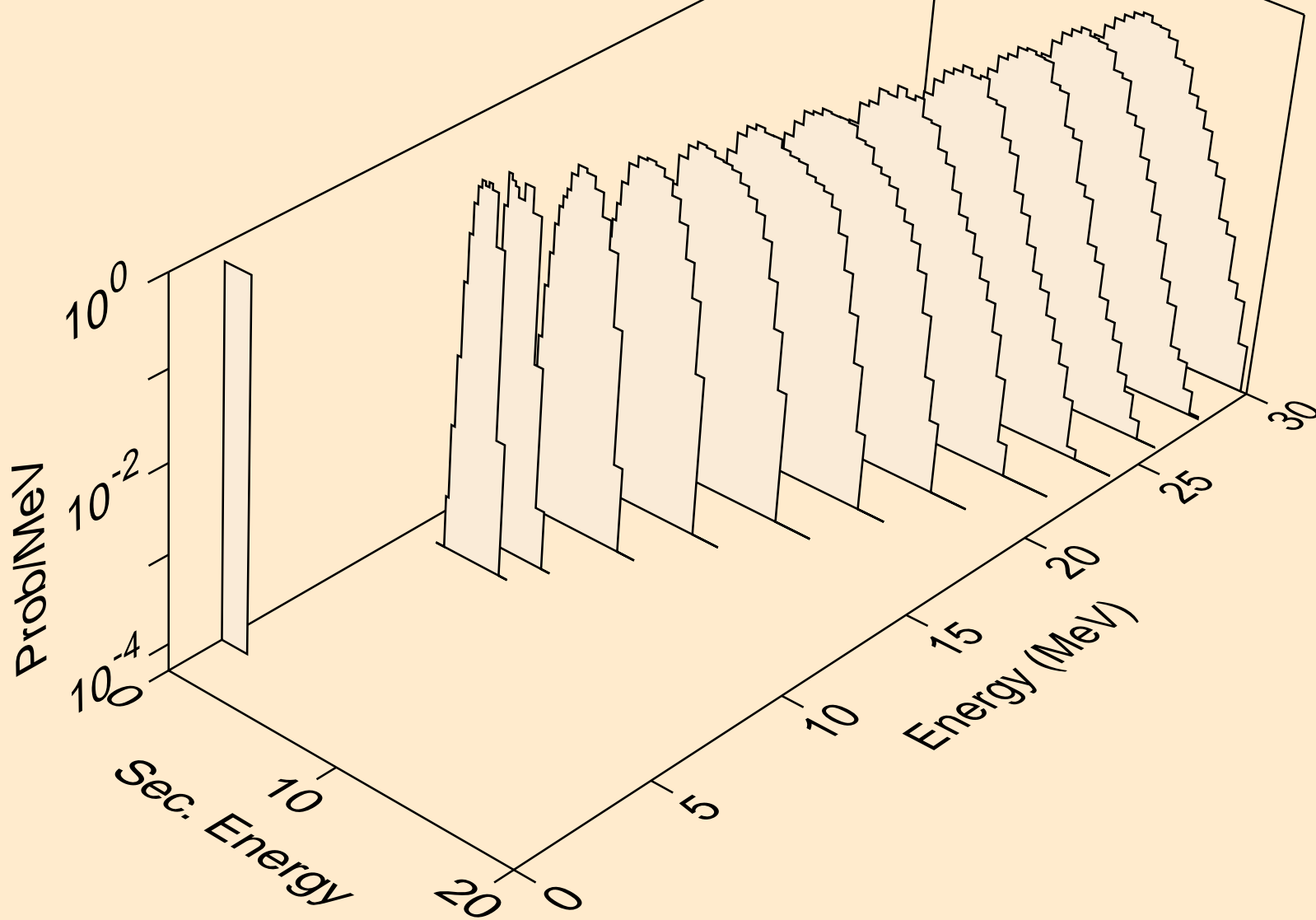
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protons from (n,npa)



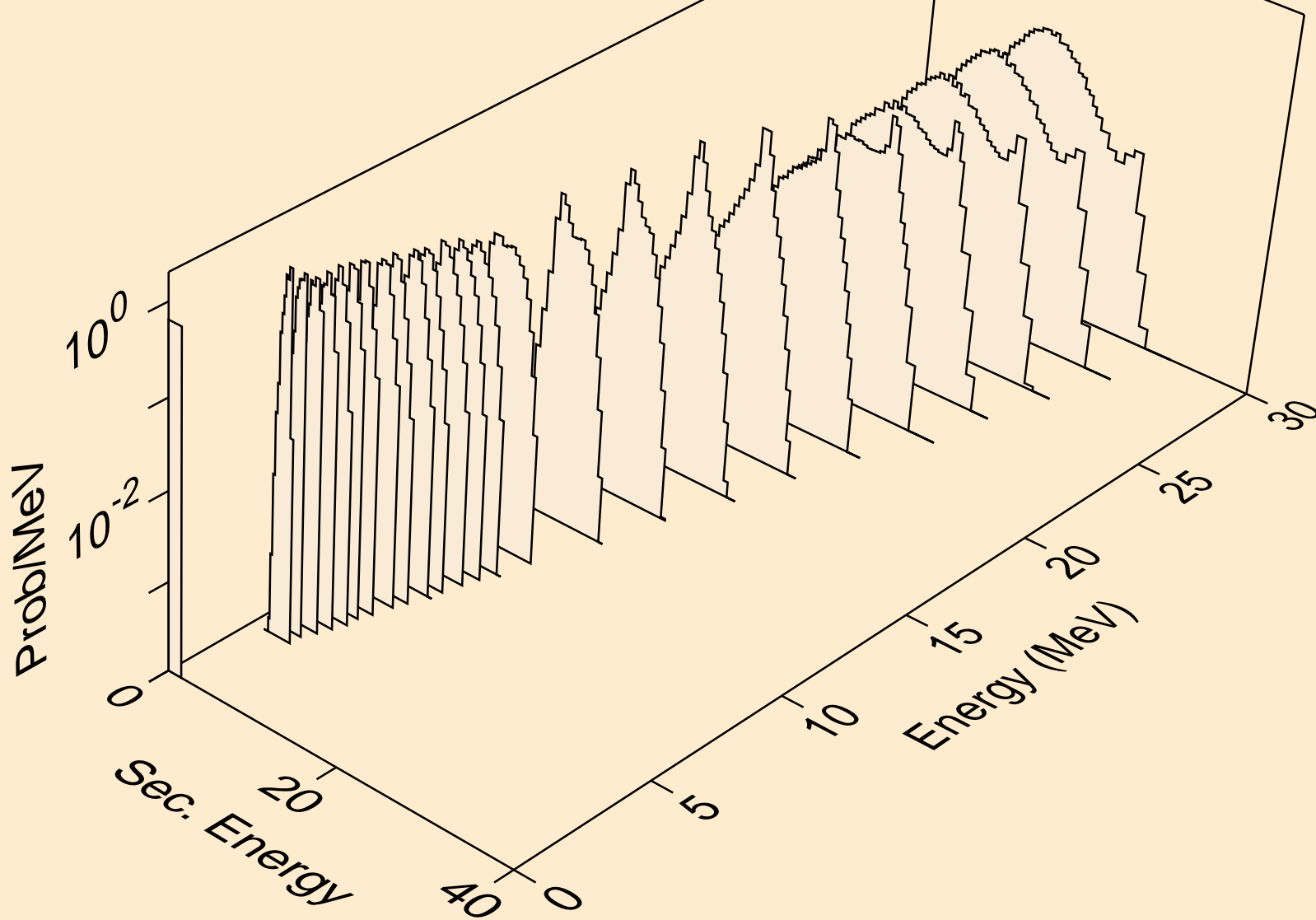
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protons from (n,p)



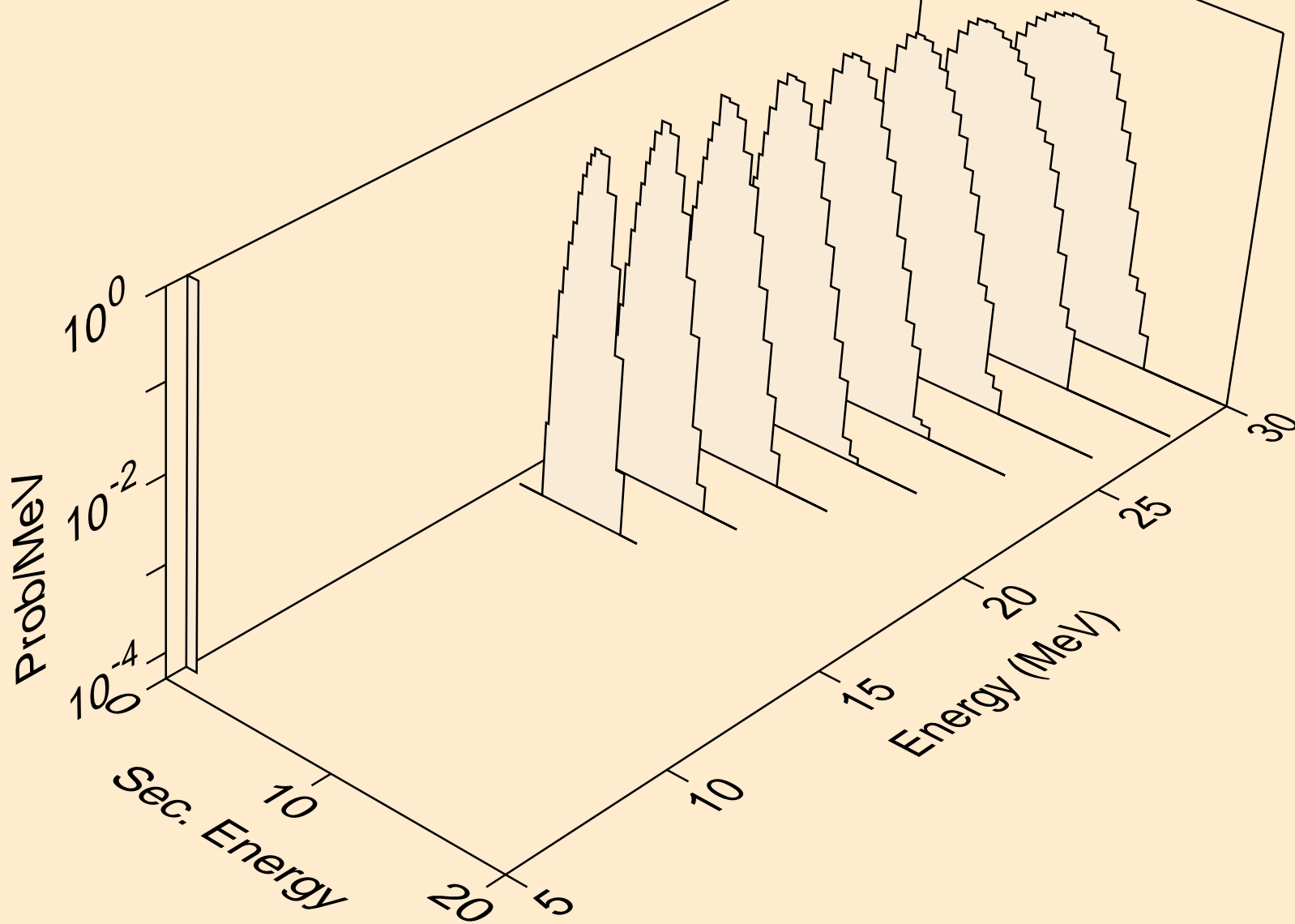
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protons from (n,2p)



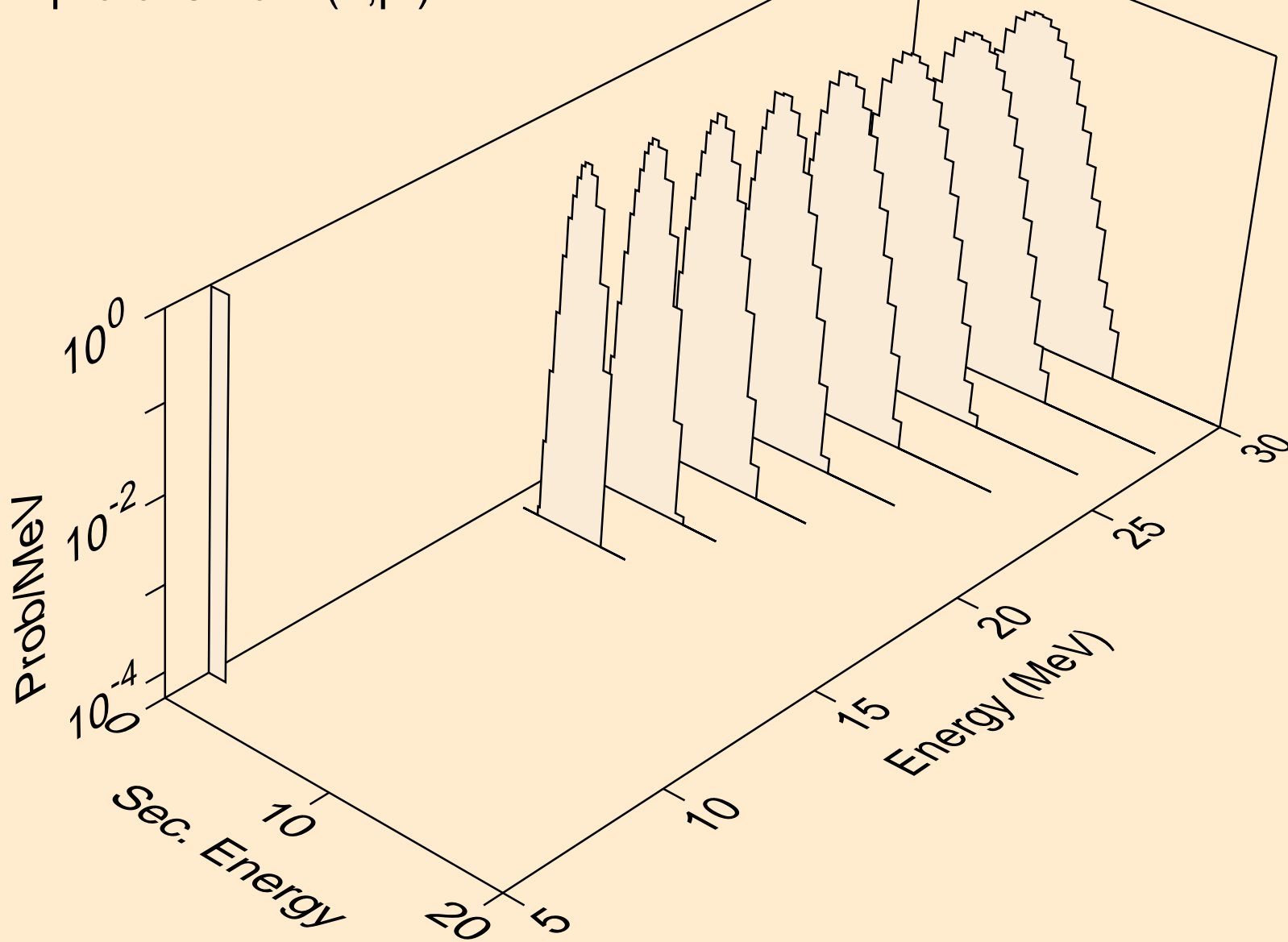
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protons from (n,p)



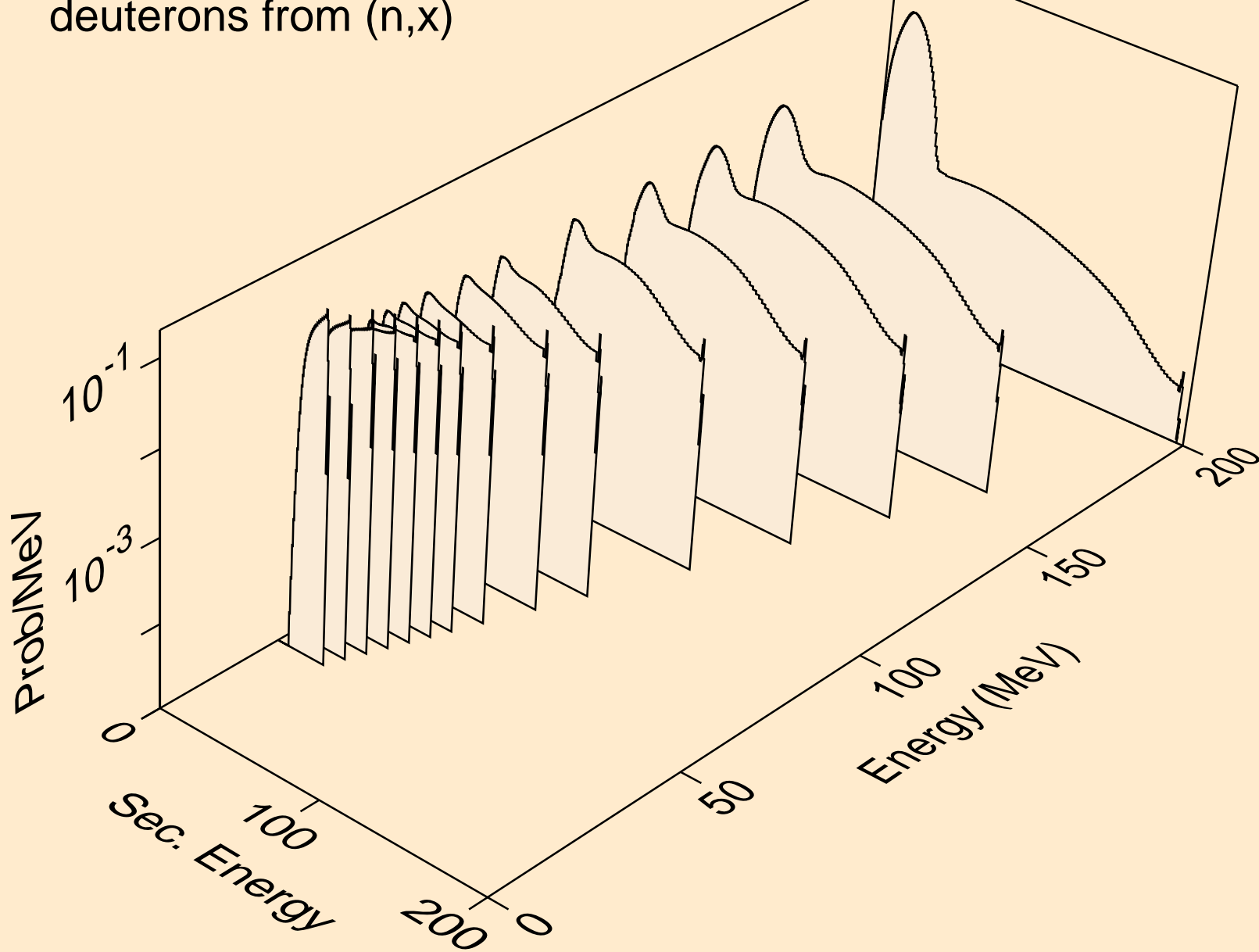
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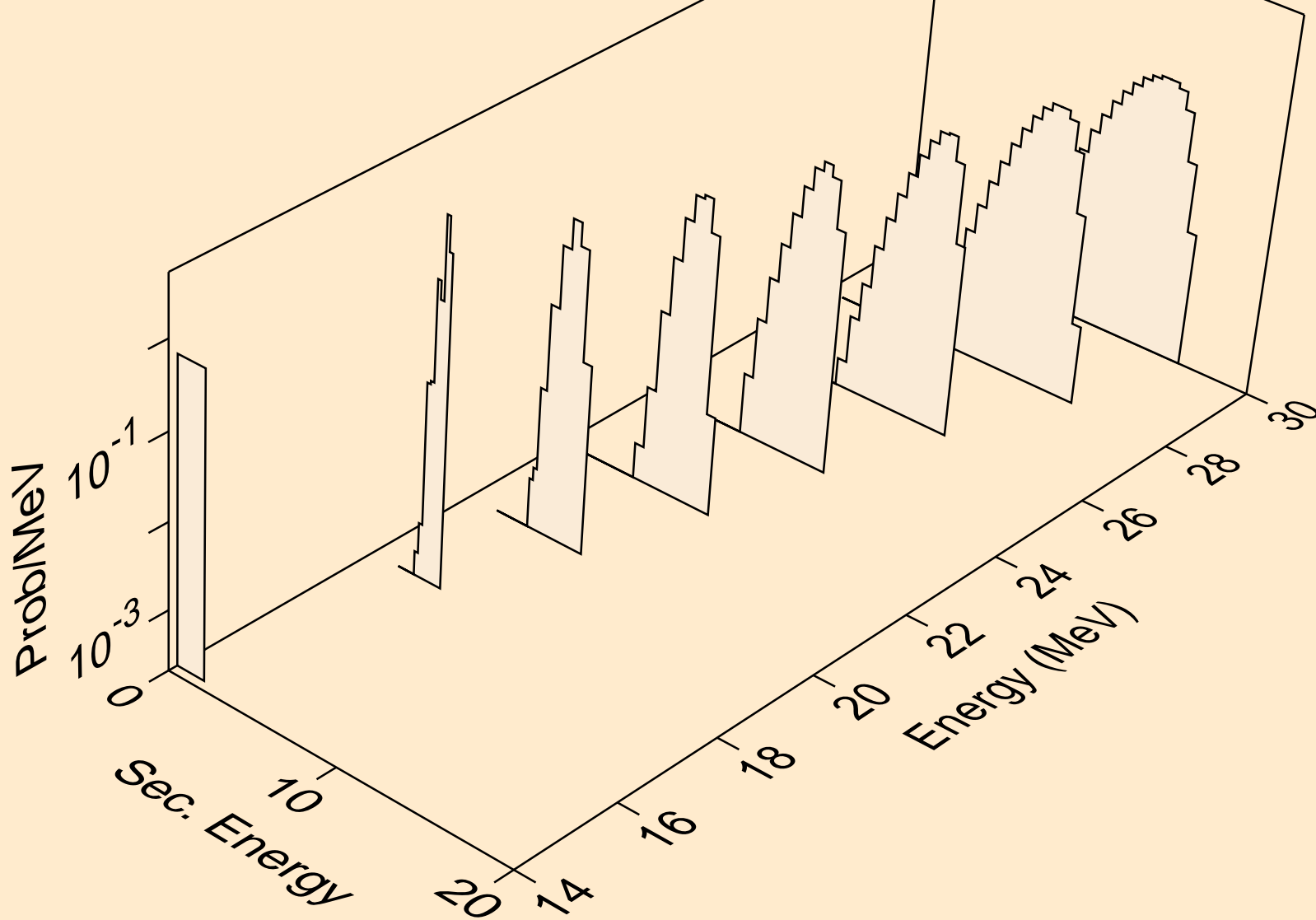
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protons from (n,pt)



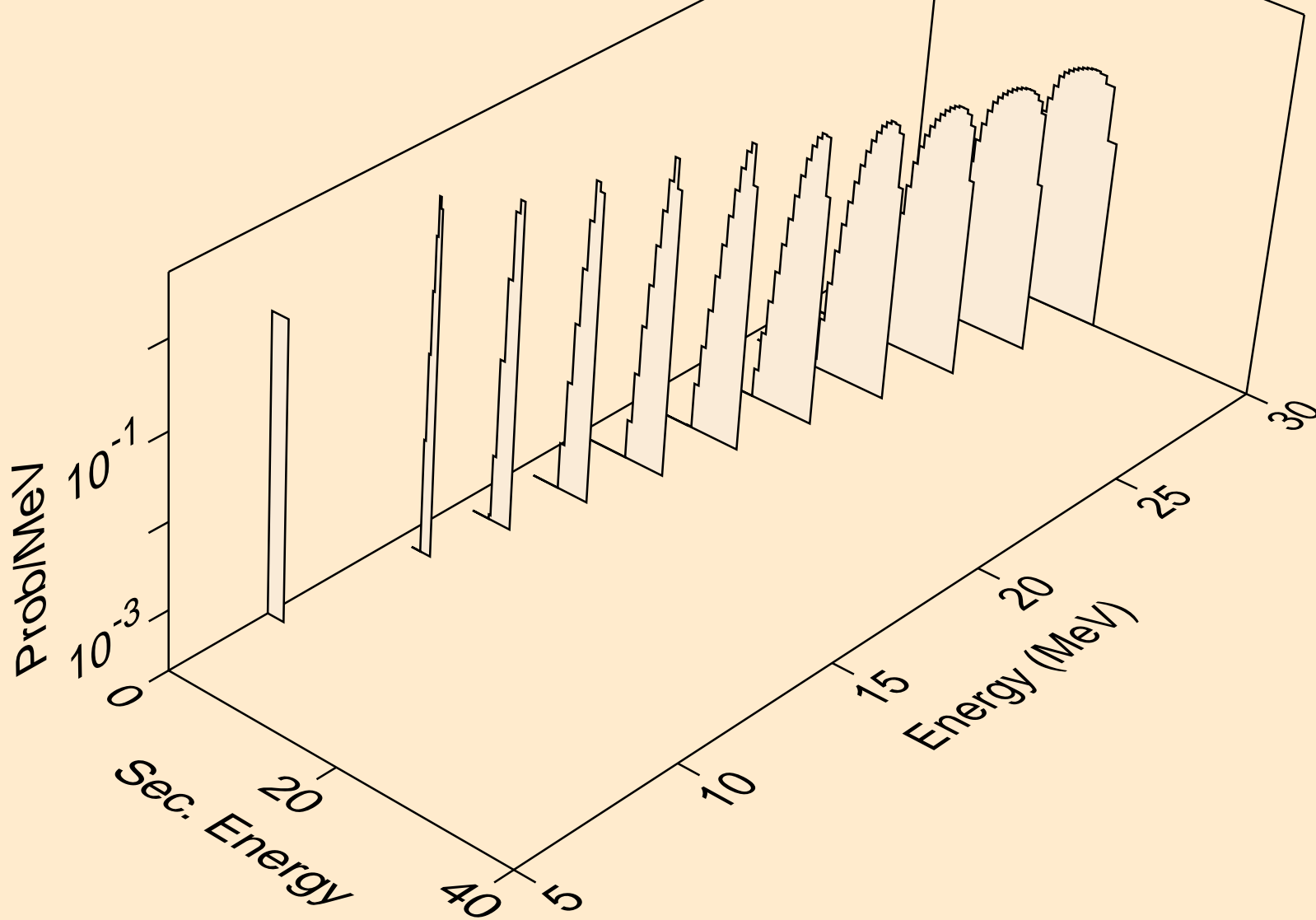
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deuterons from (n,x)



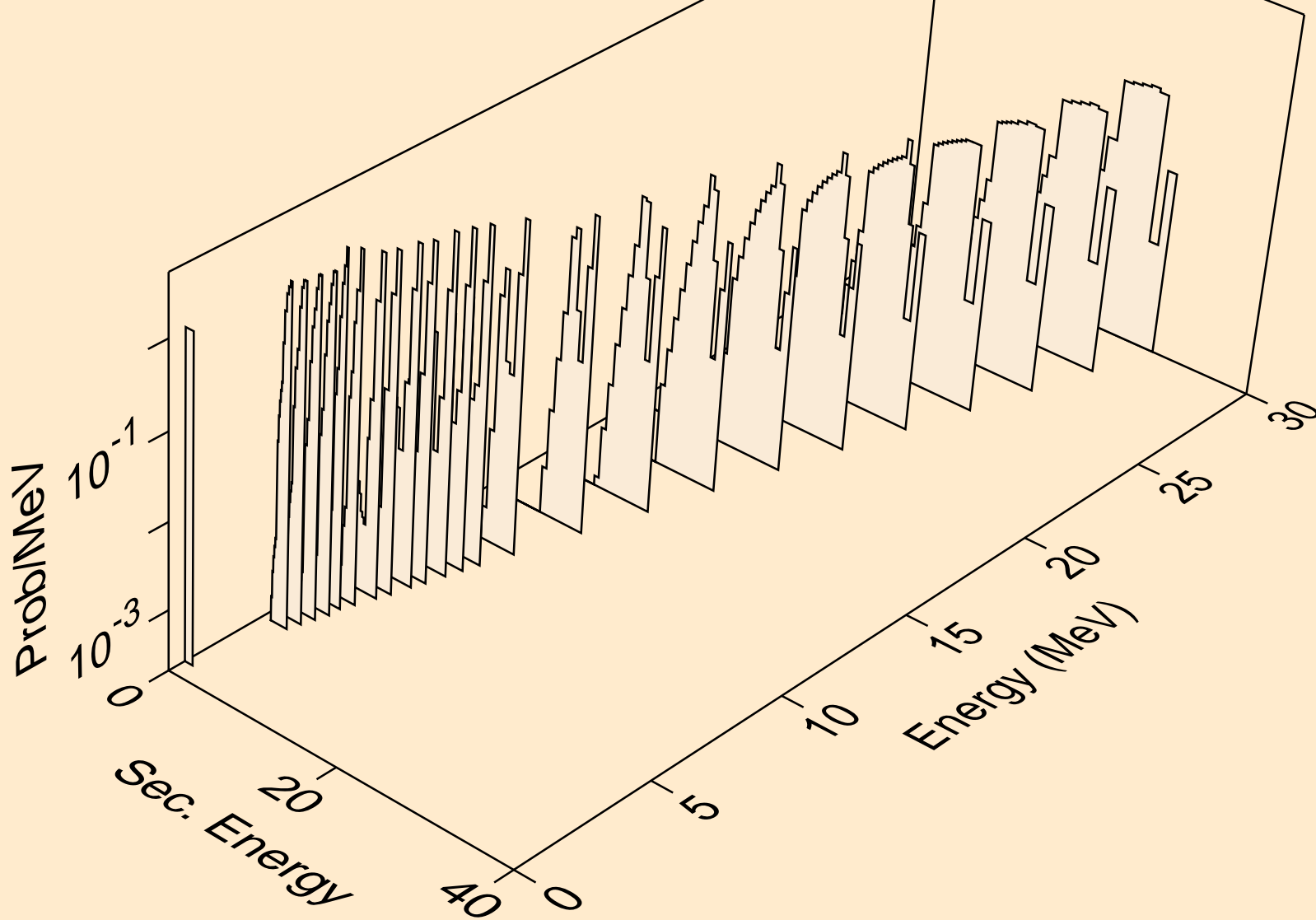
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deuterons from (n,2nd)



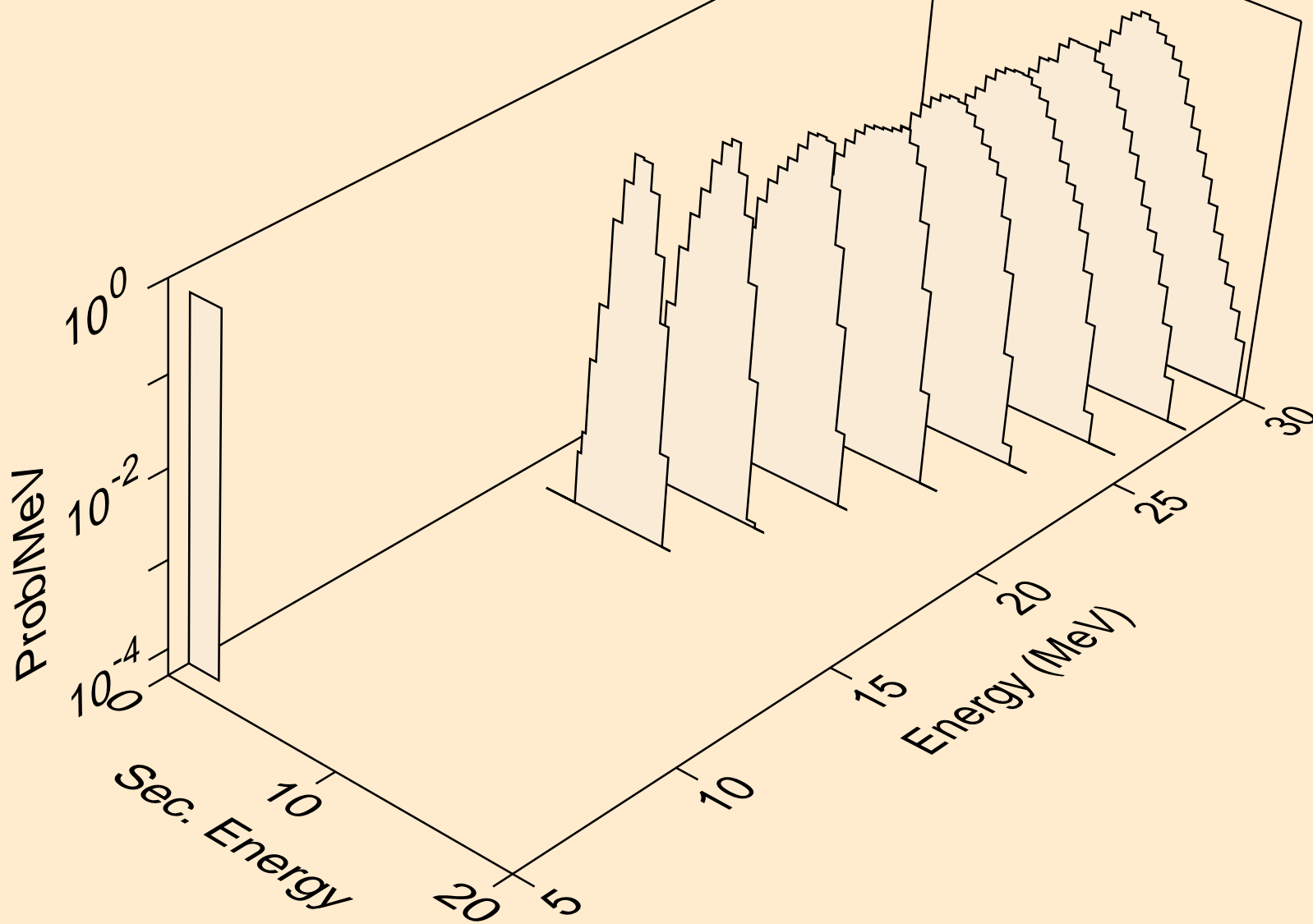
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deuterons from (n,n\*)d



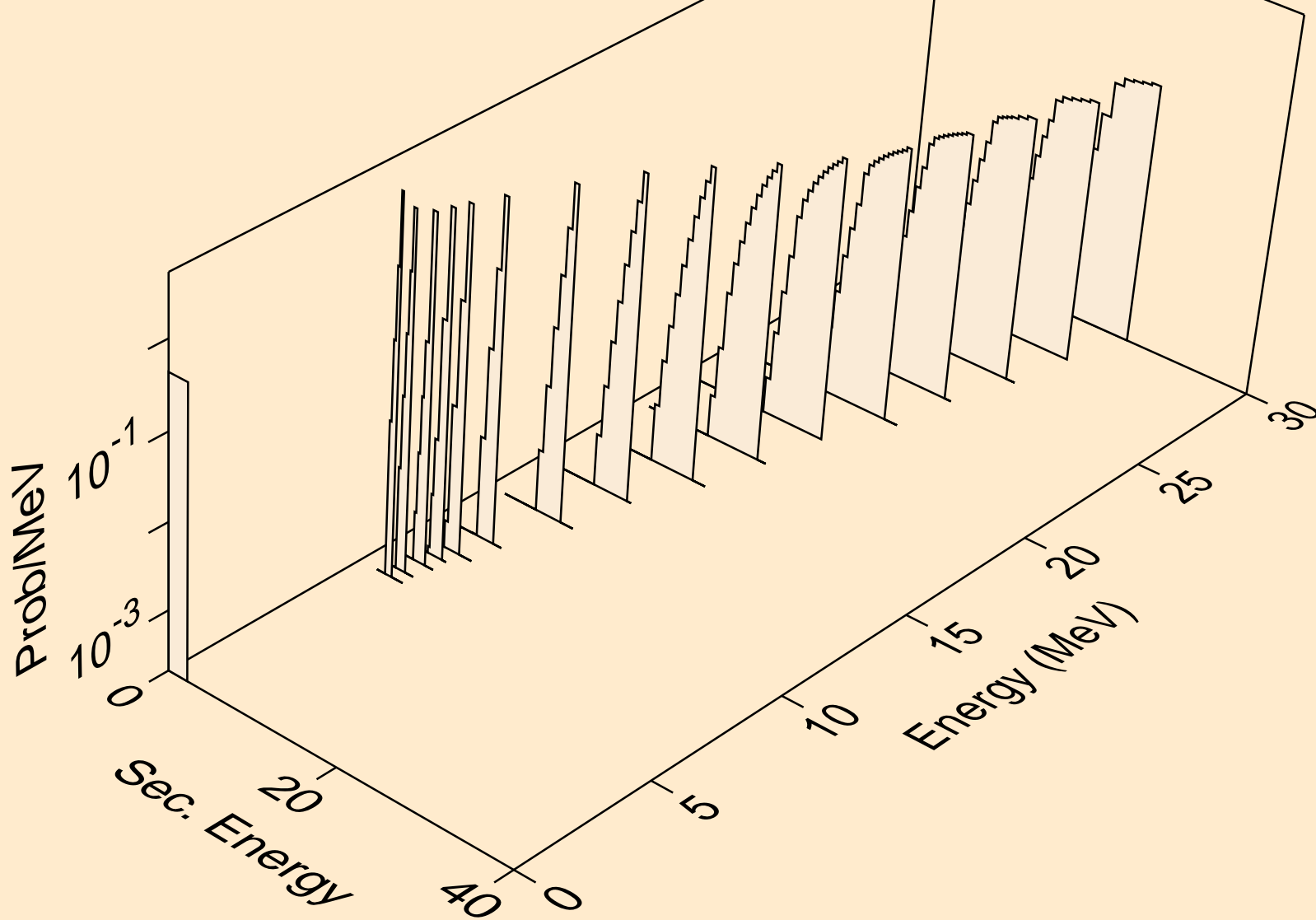
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deuterons from (n,d)



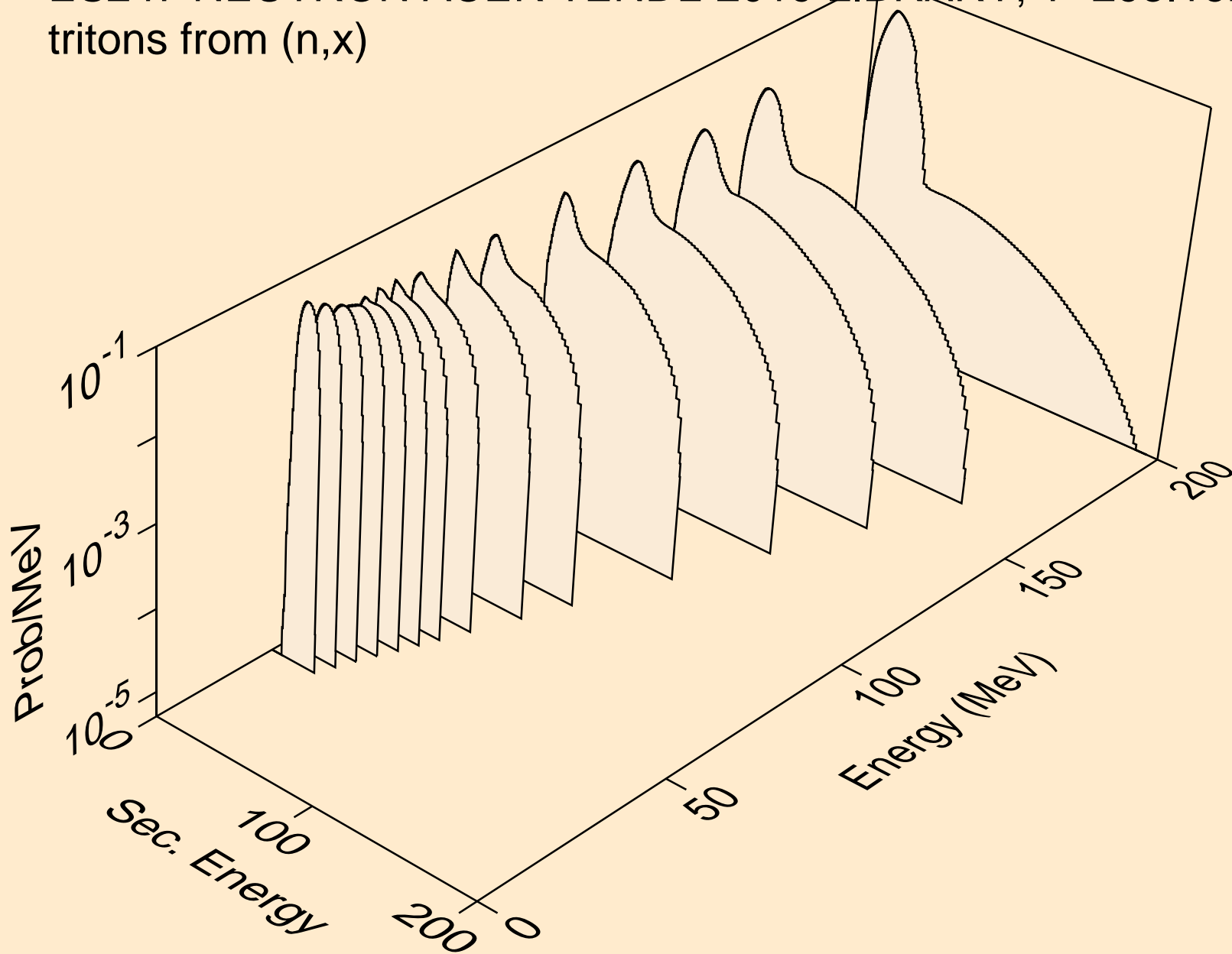
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deuterons from (n,pd)



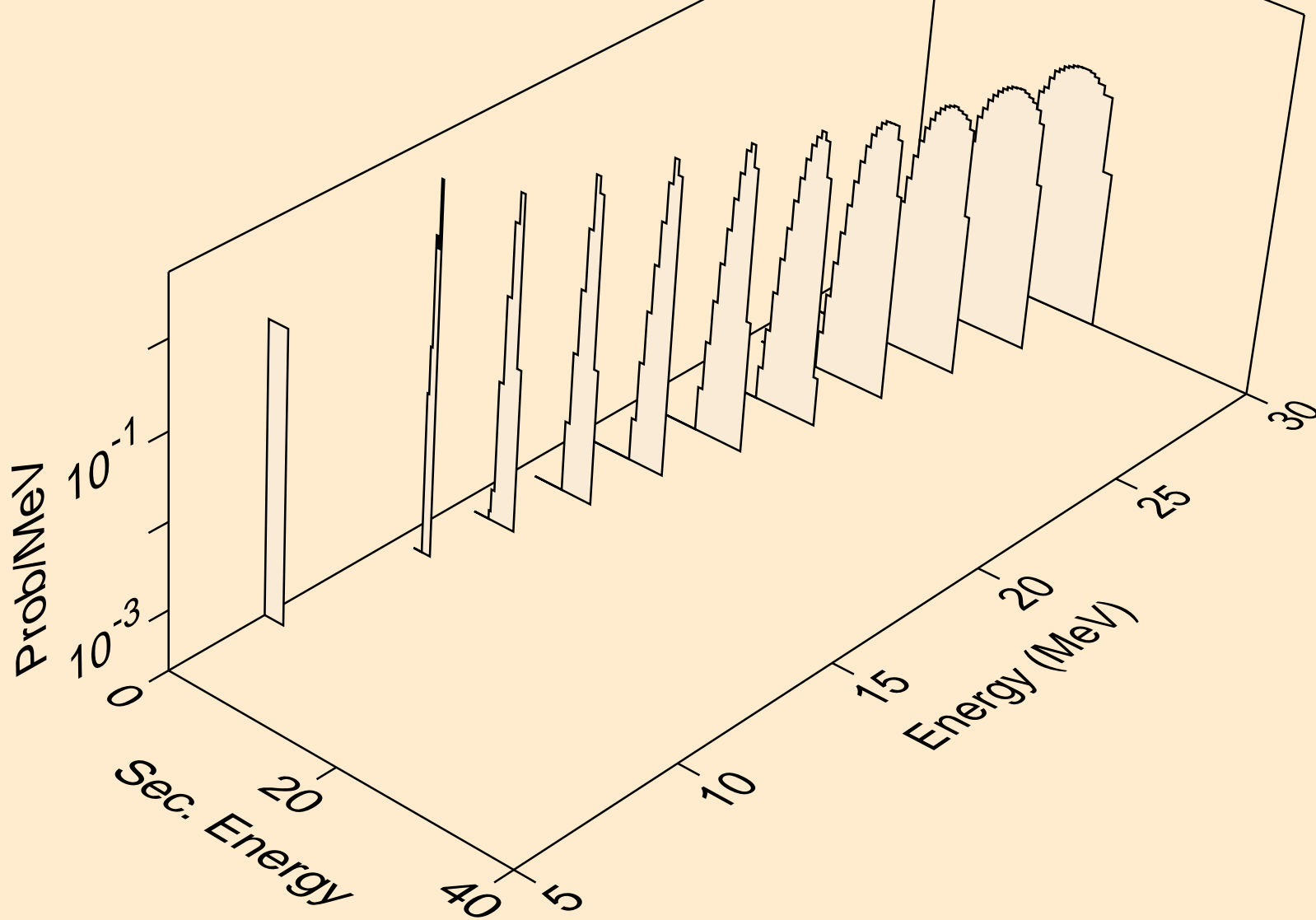
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deuterons from (n,da)



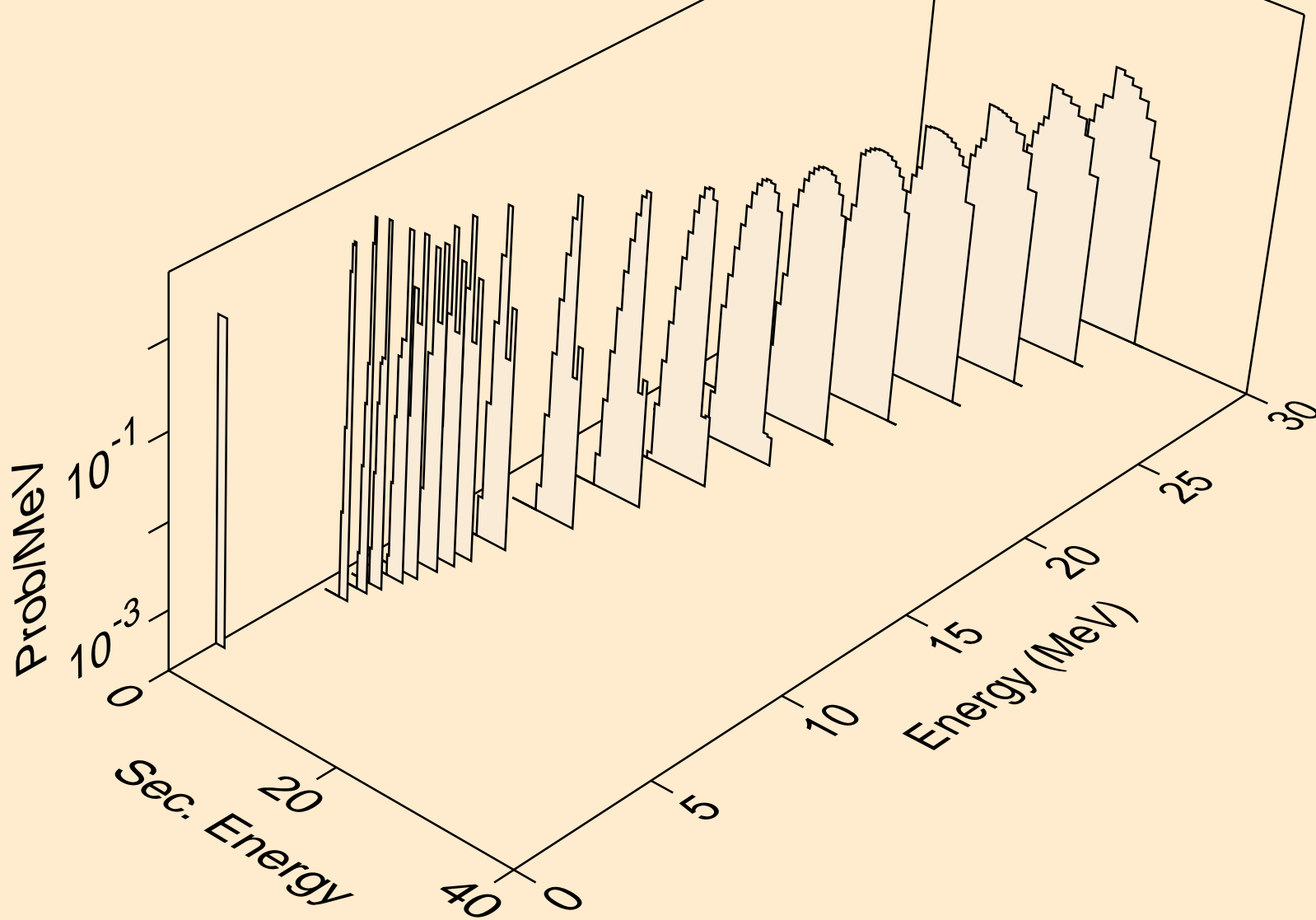
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tritons from (n,x)



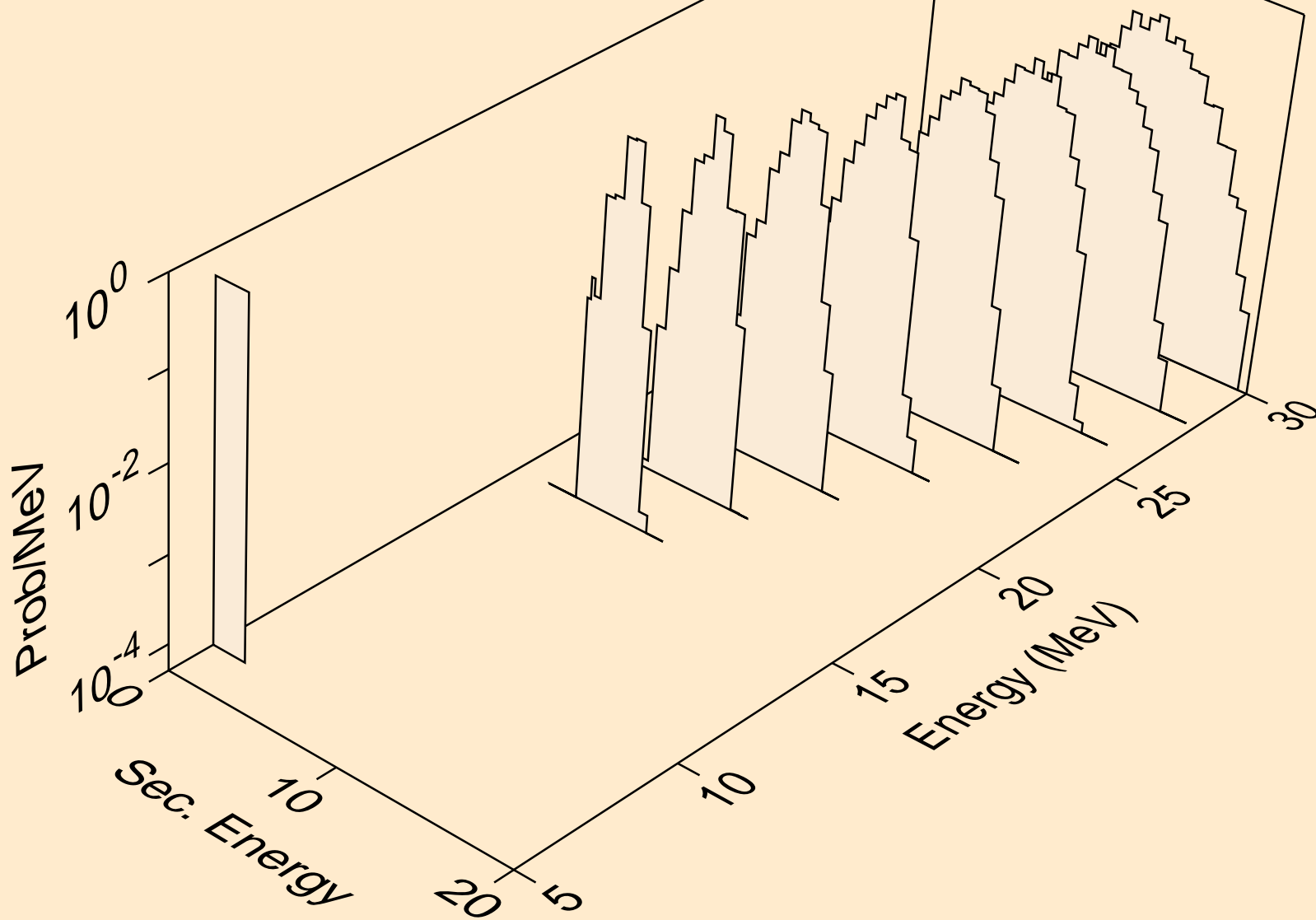
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tritons from (n,n\*)t



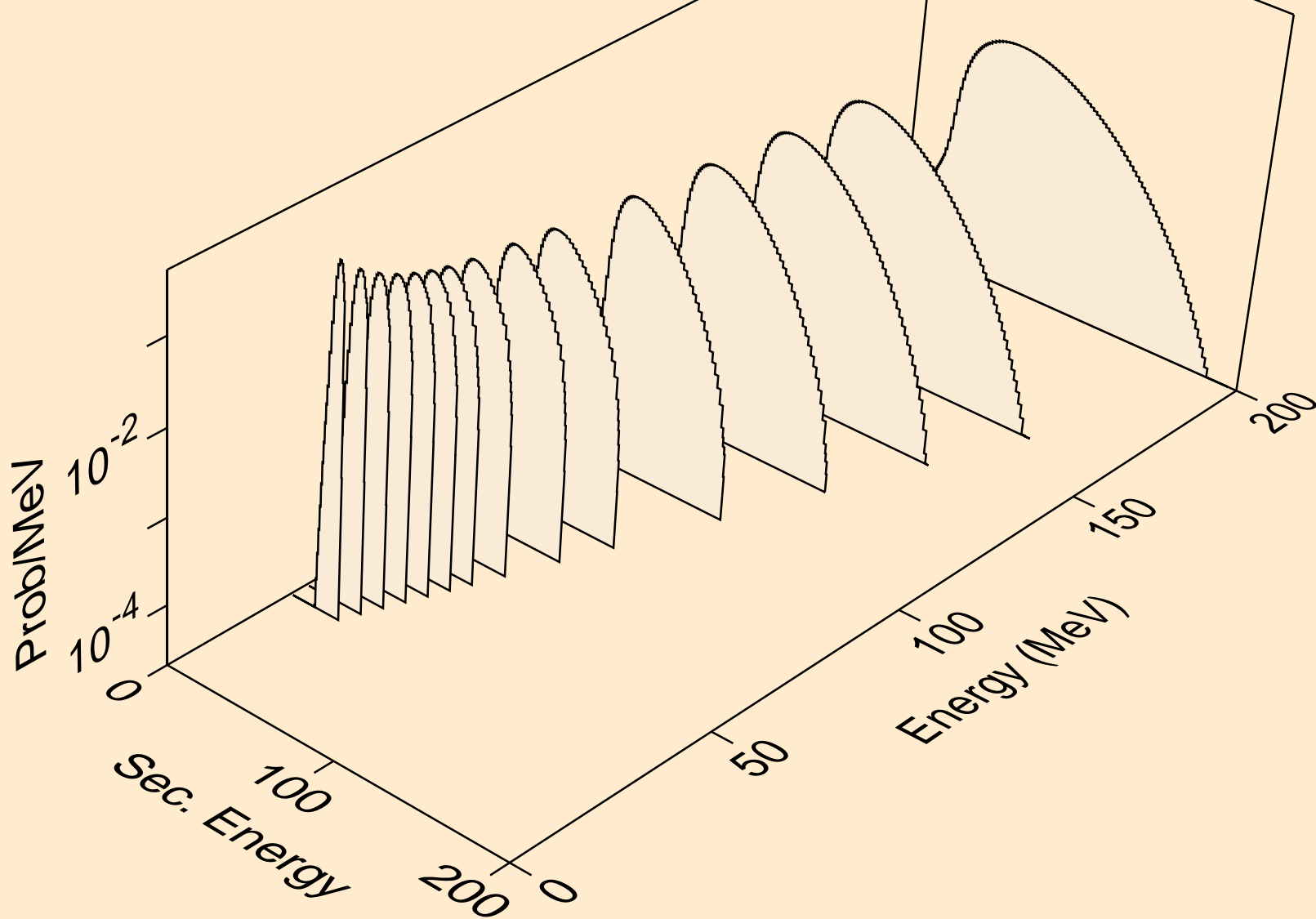
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
tritons from (n,t)



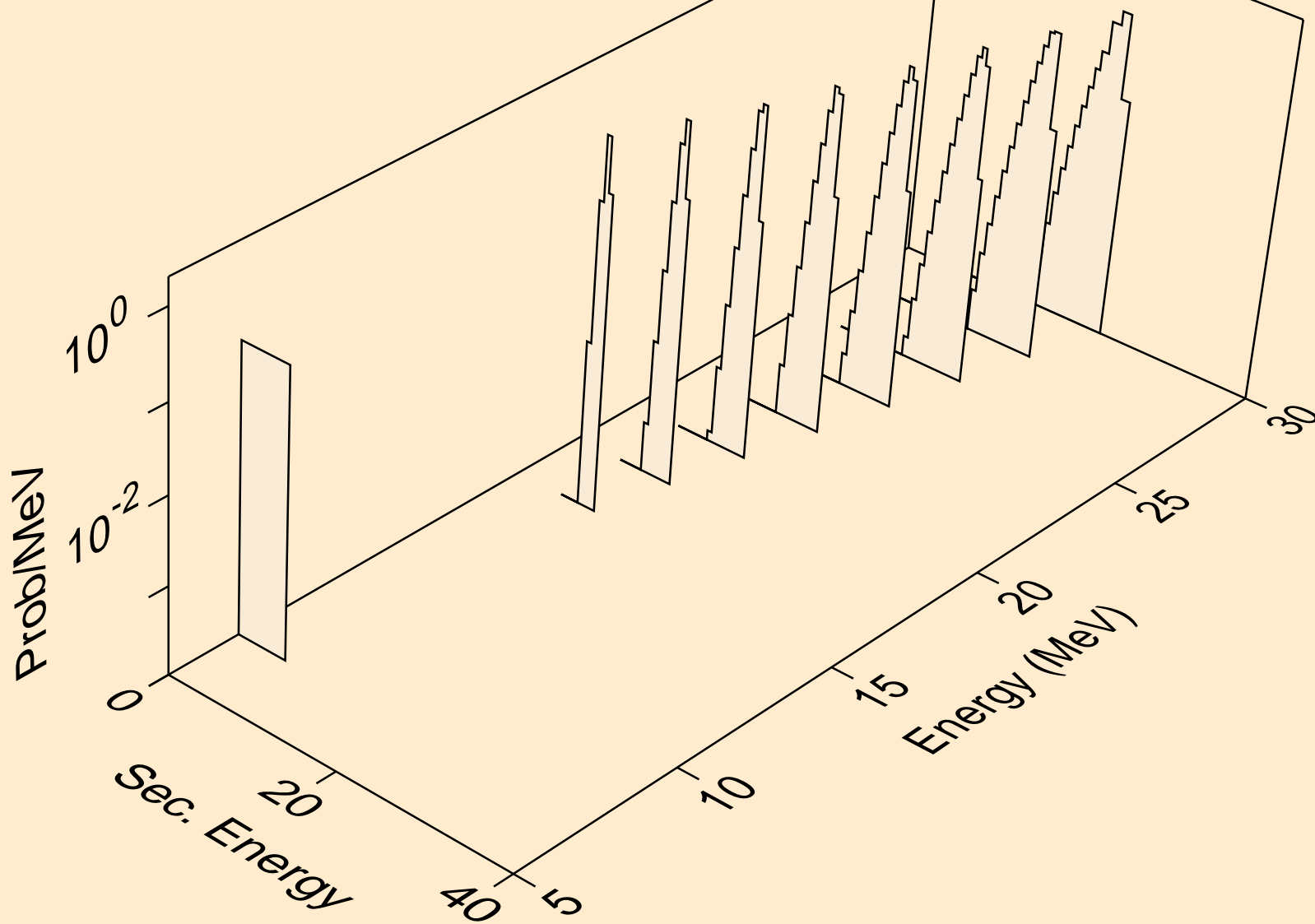
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
tritons from (n,pt)



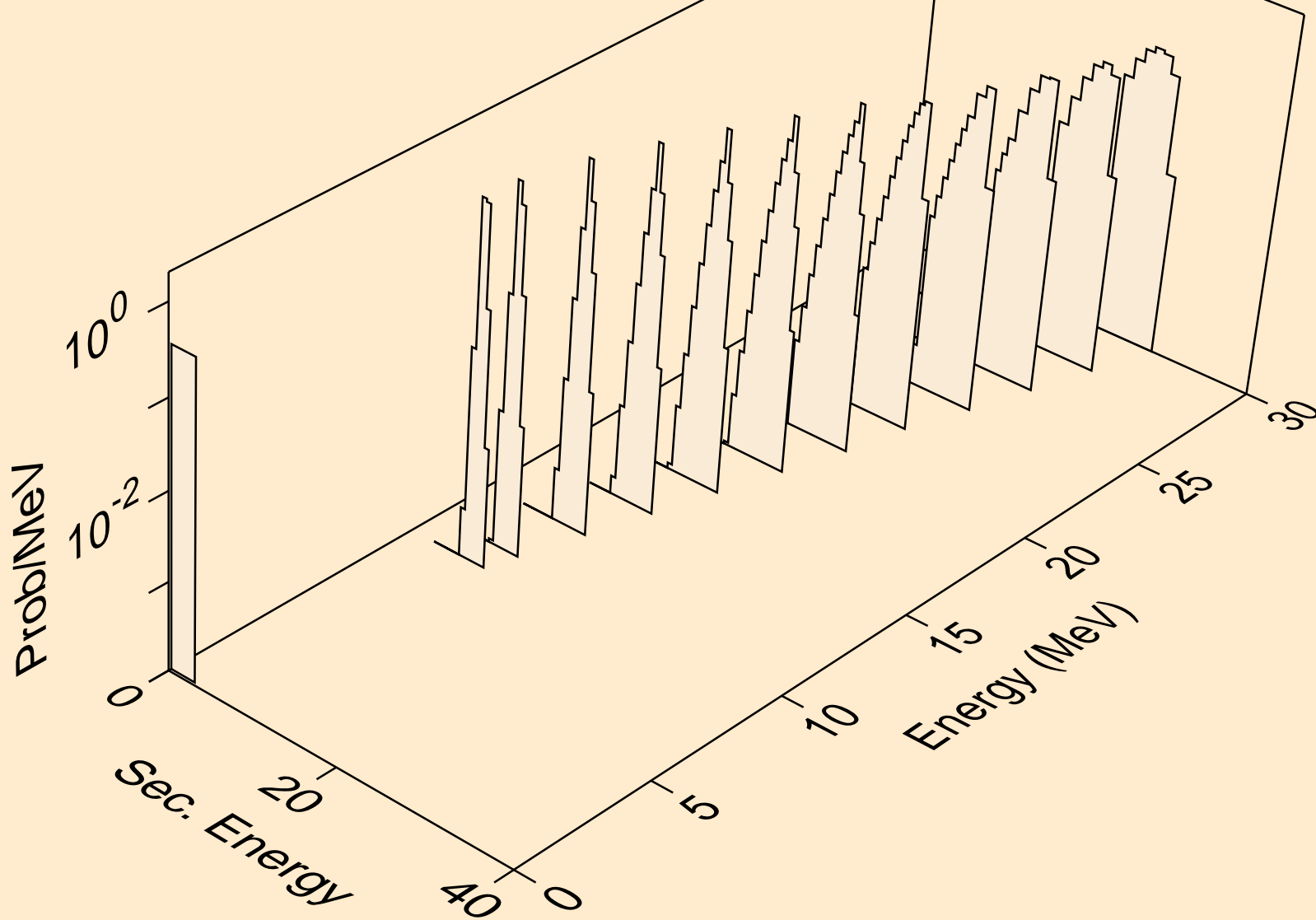
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he3s from (n,x)



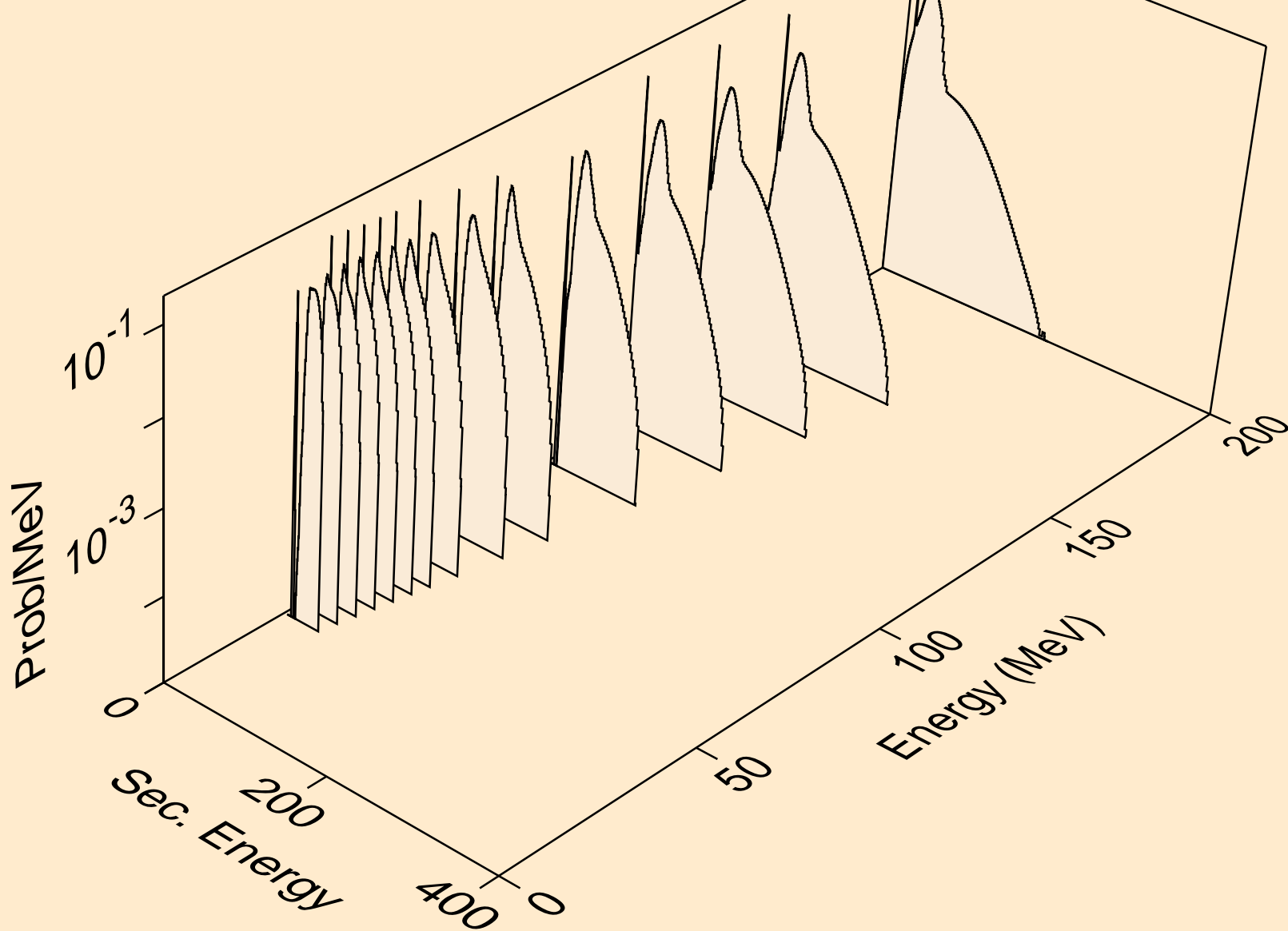
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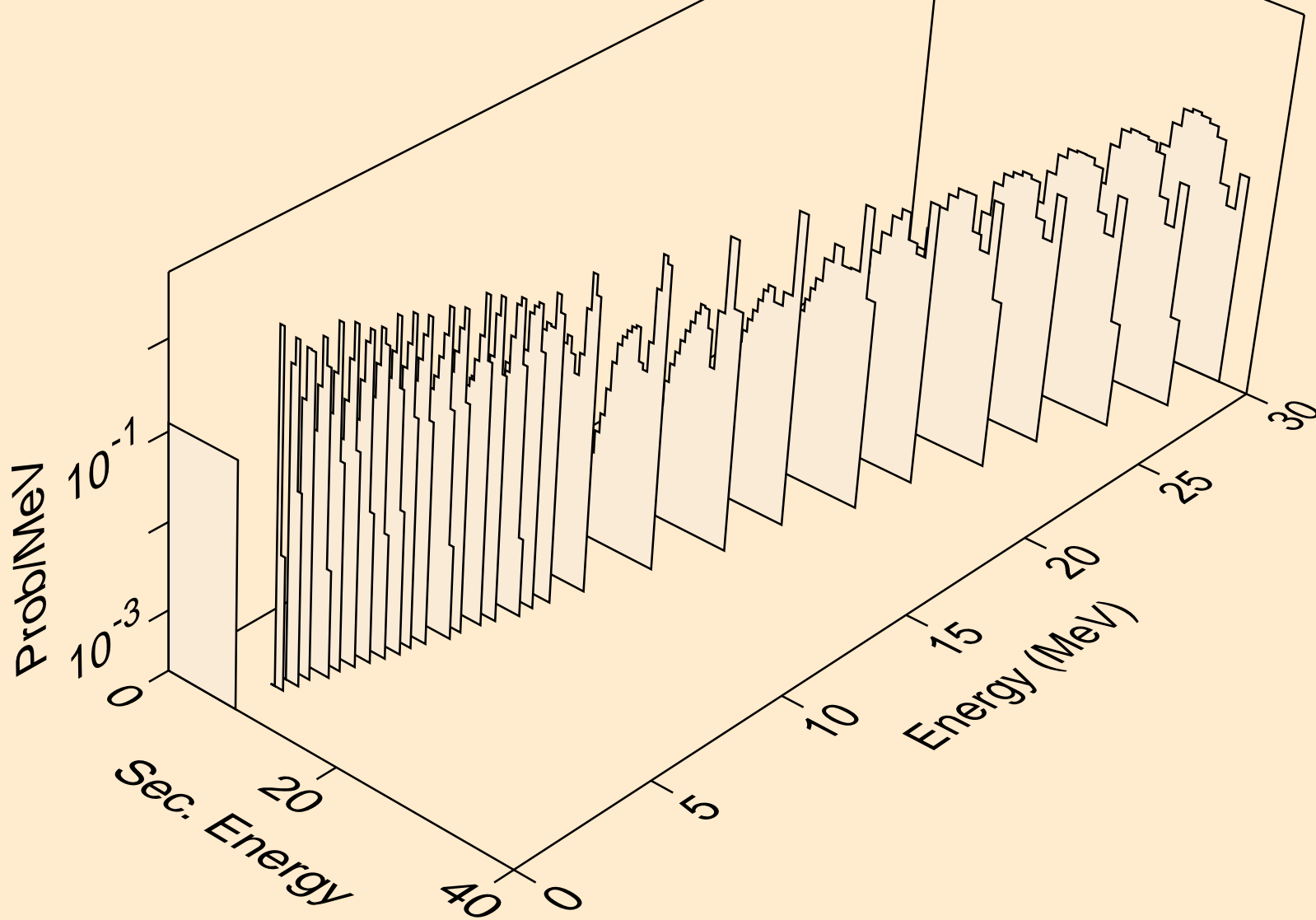
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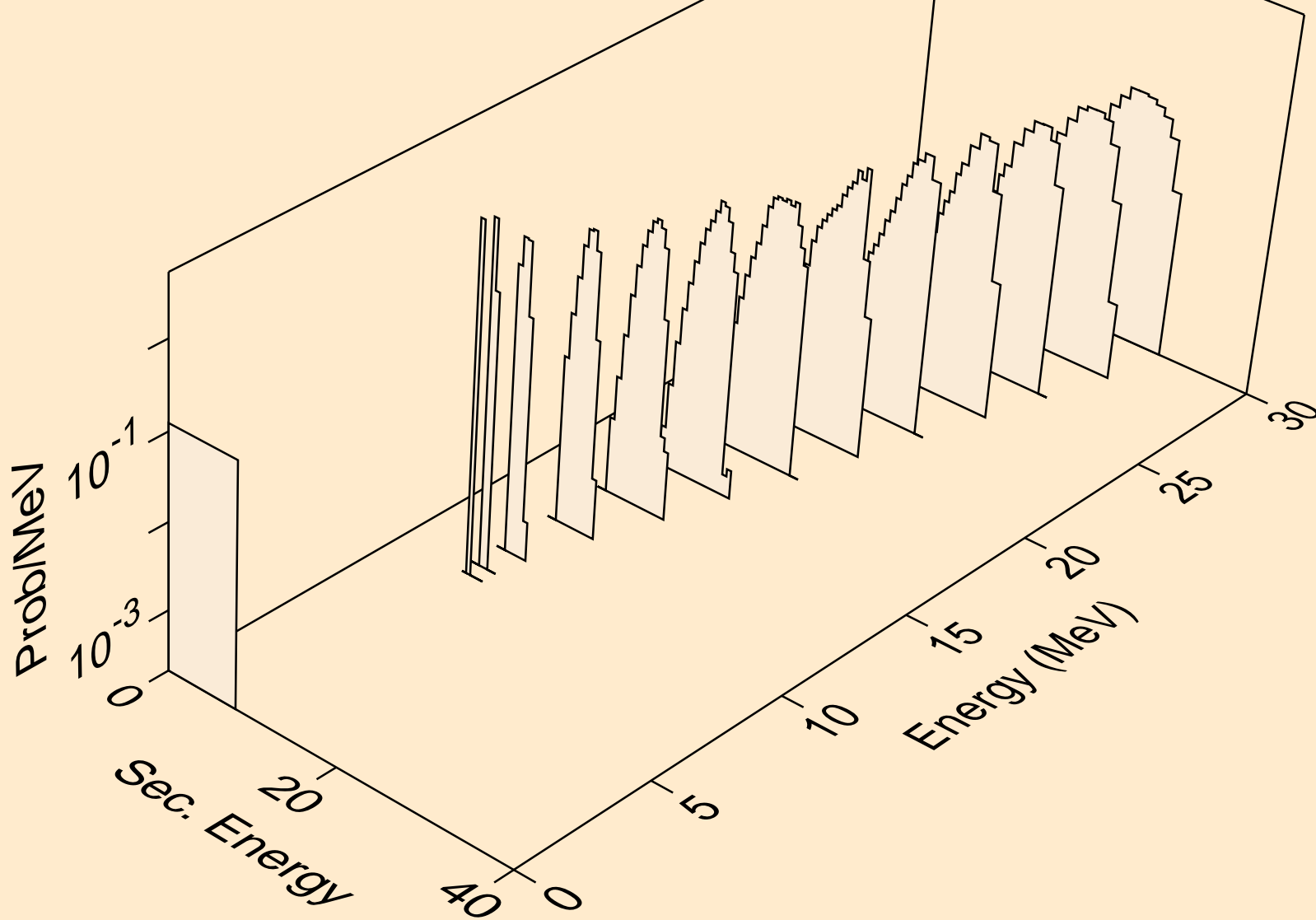
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,x)



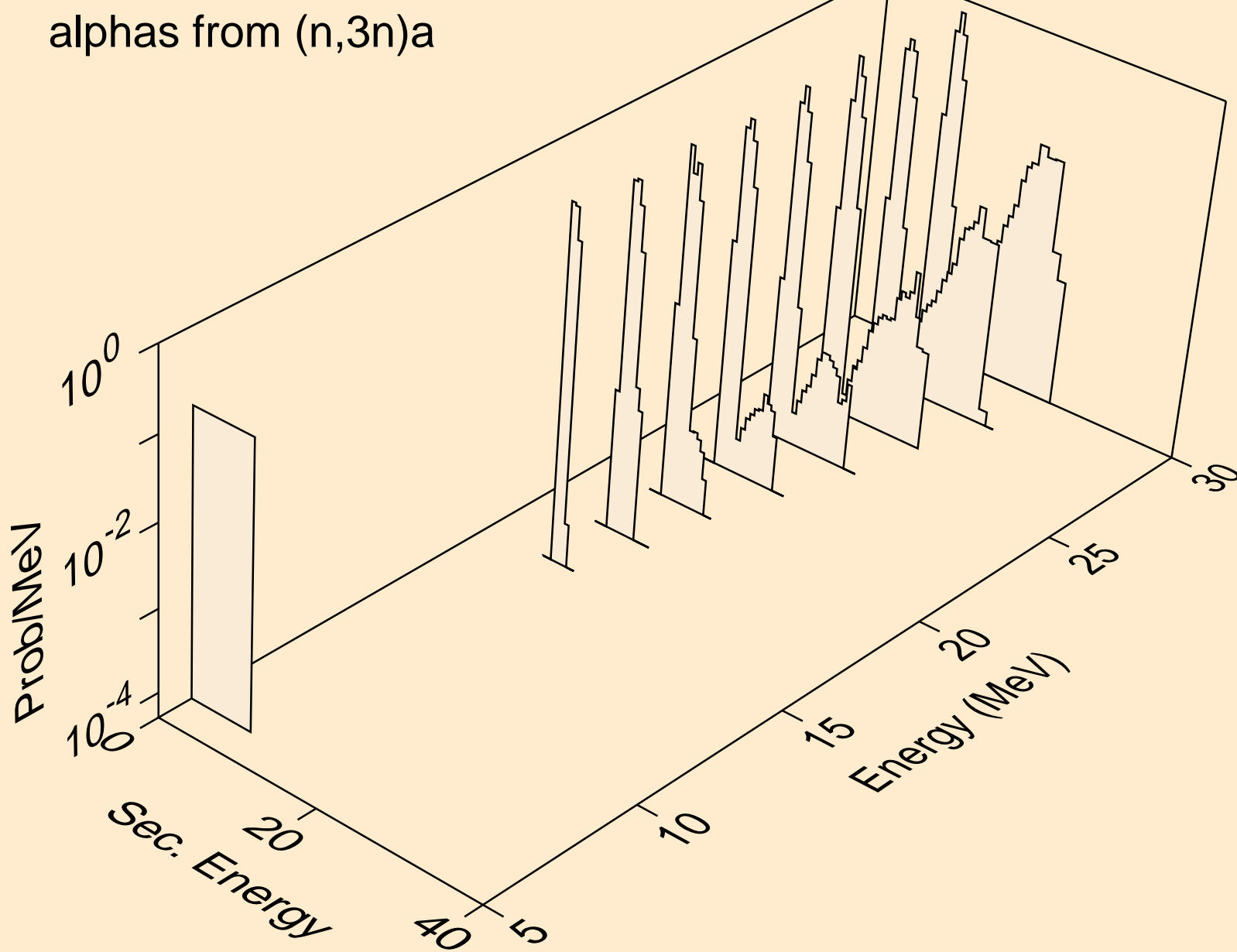
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,n\*)a



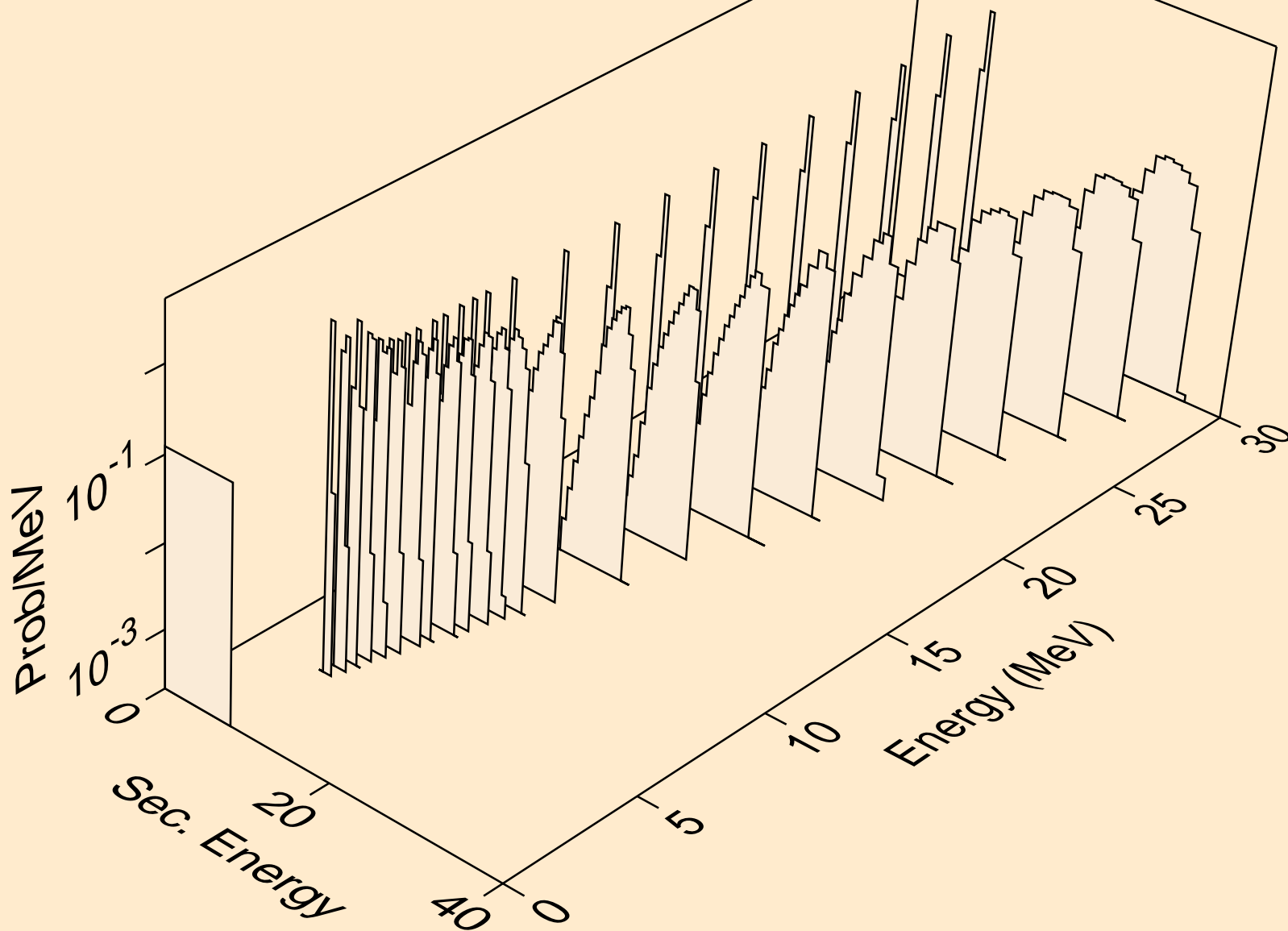
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alphas from (n,2n)a



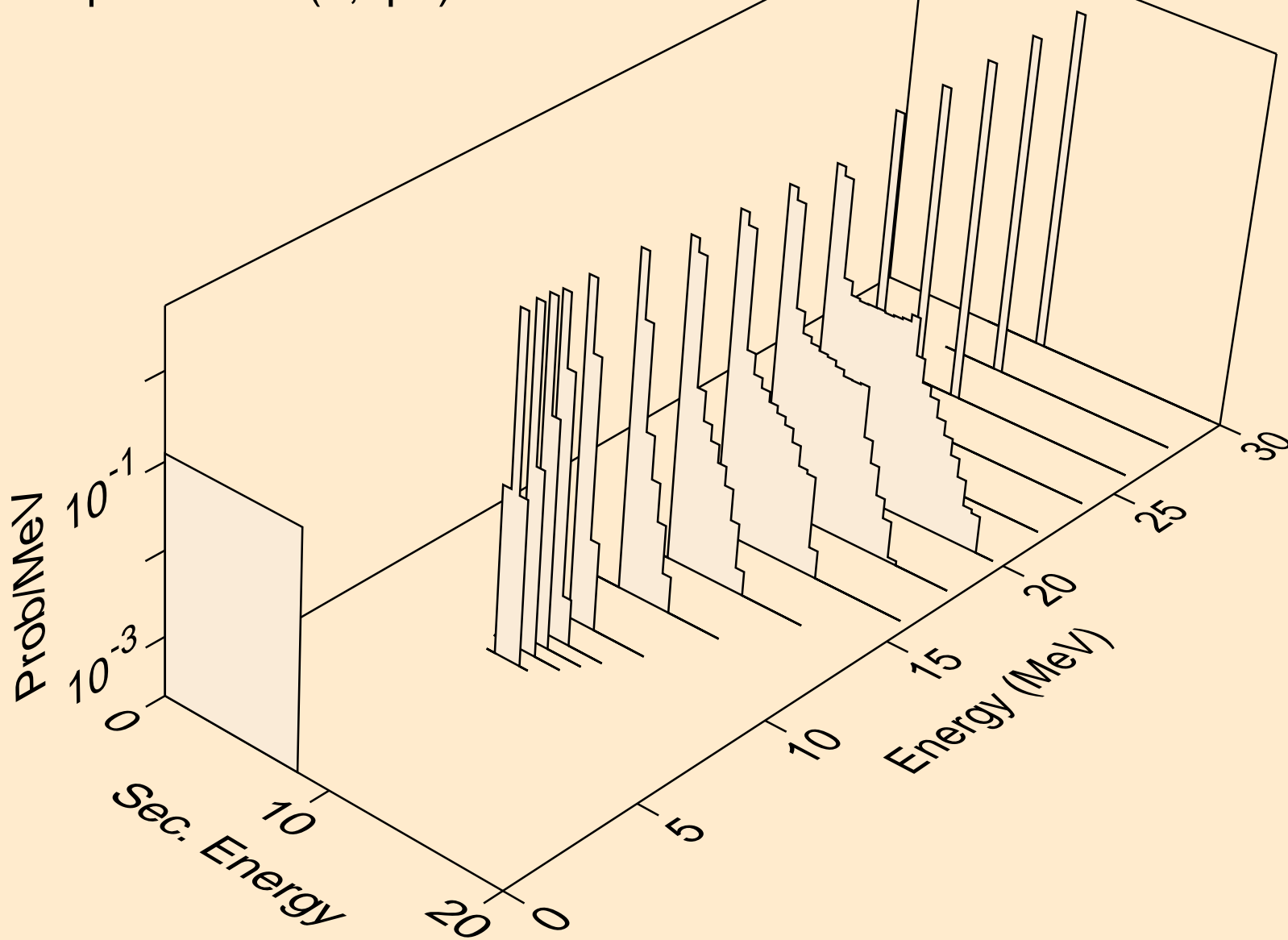
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alphas from (n,3n)a



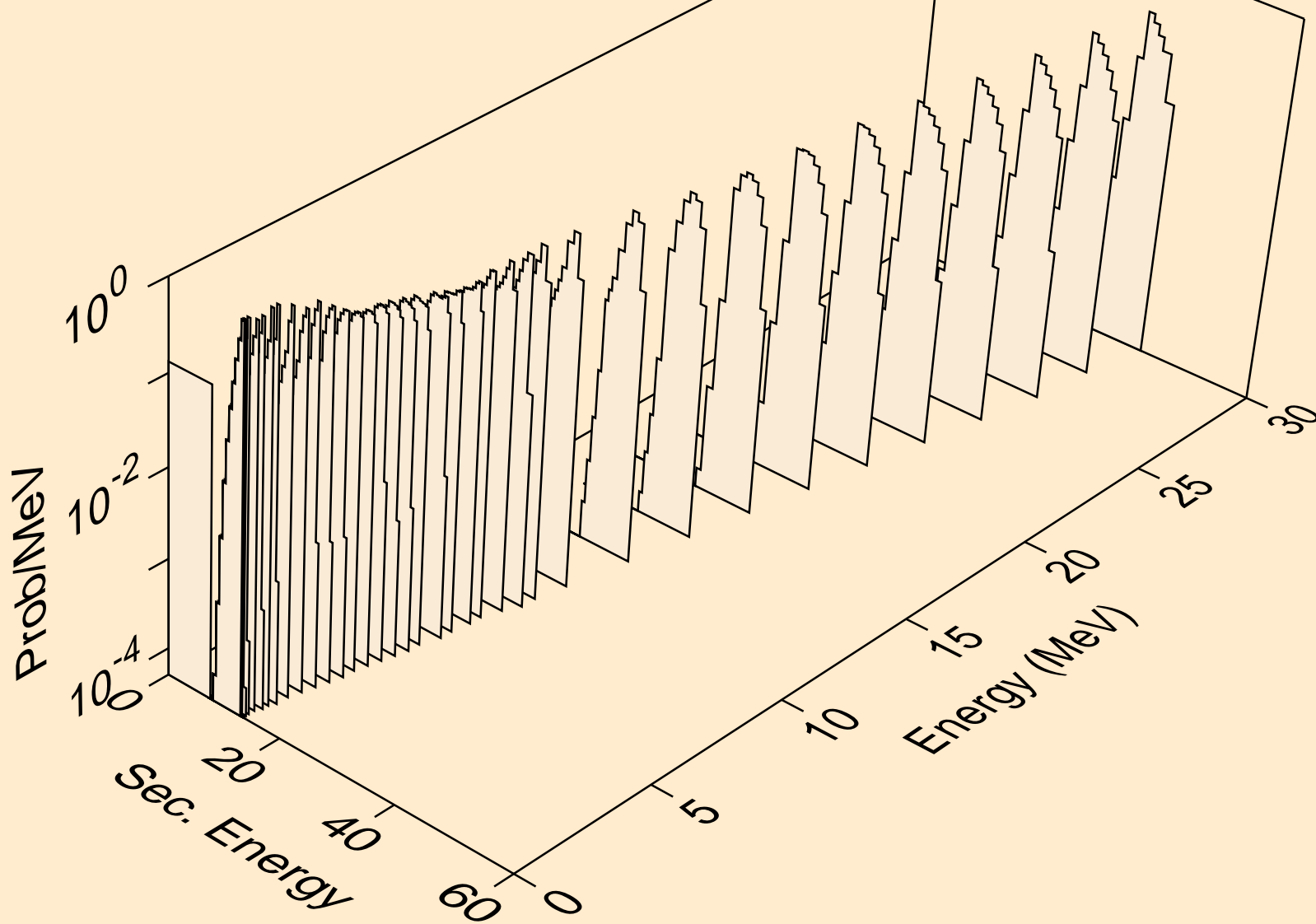
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,n\*)2a



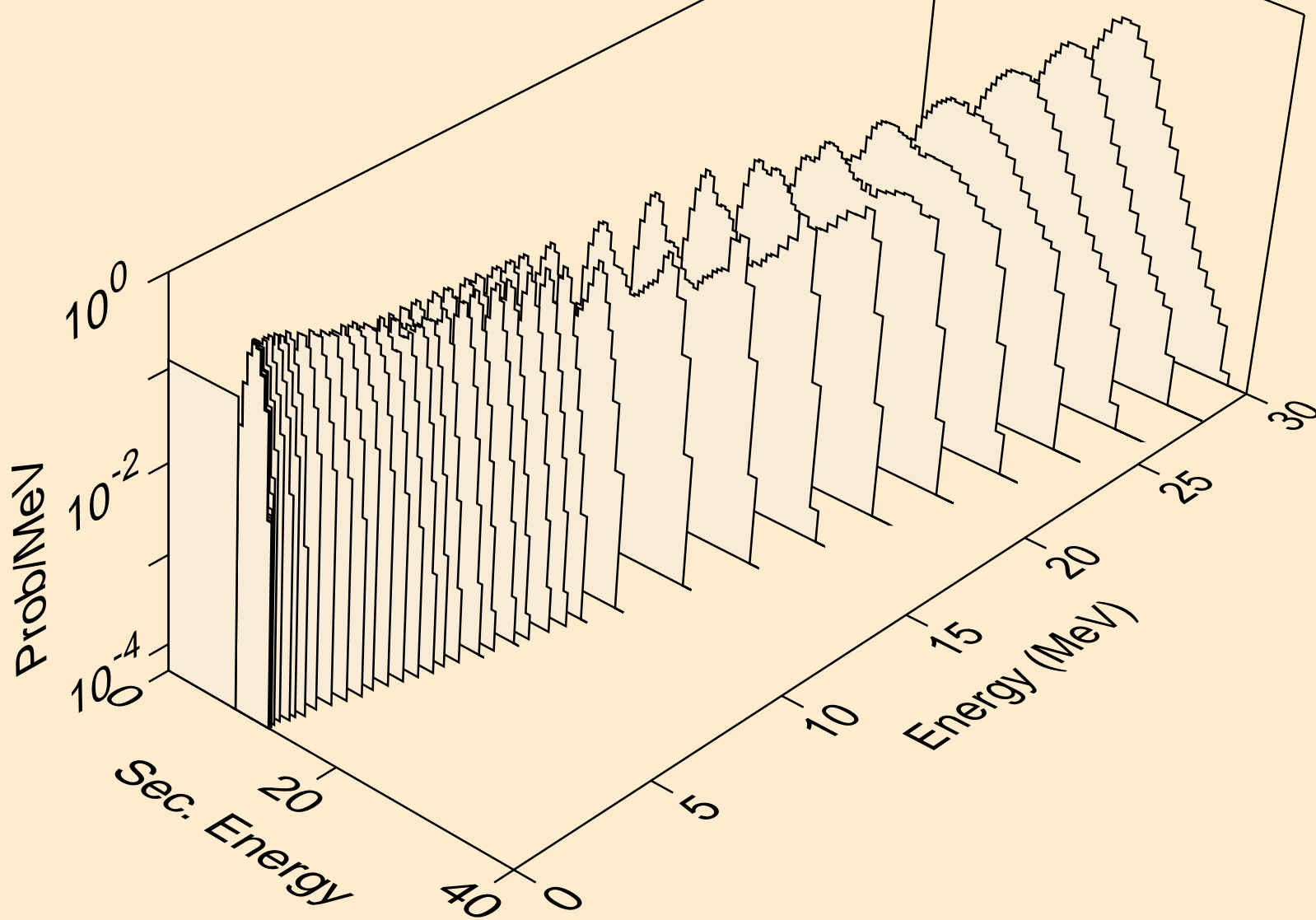
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,npa)



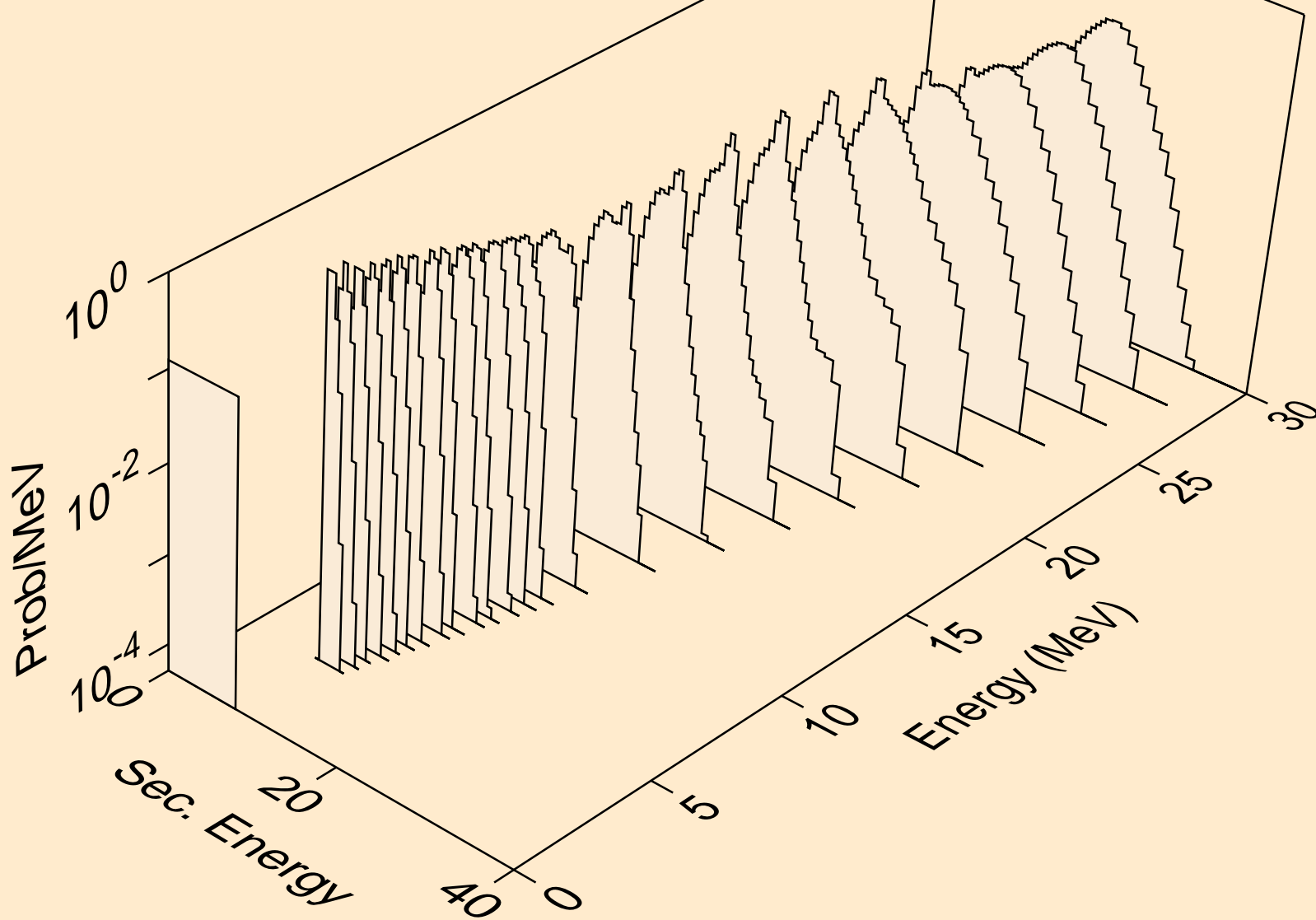
ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,a)



ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,2a)



ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,pa)



ES247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,da)

