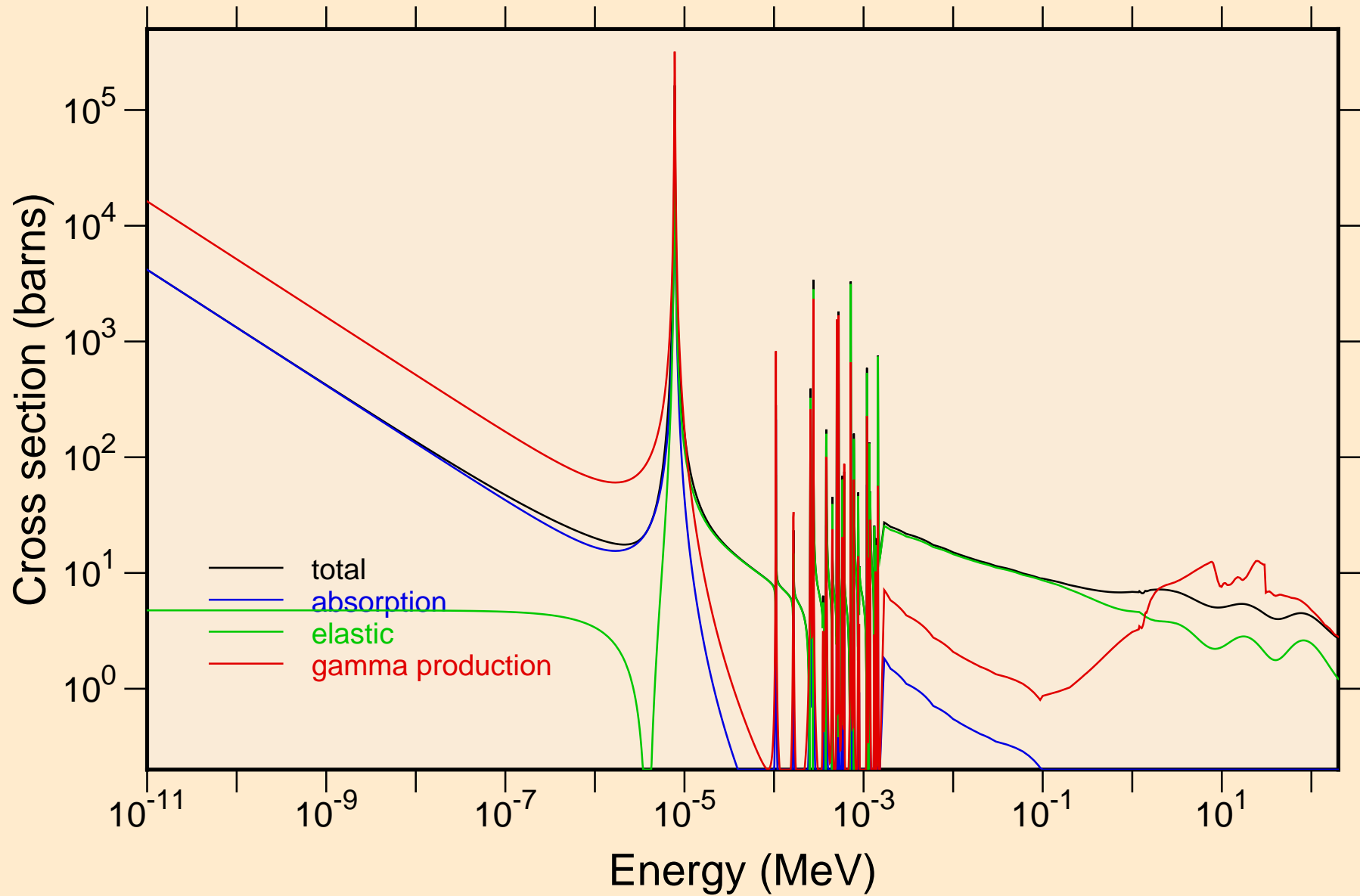
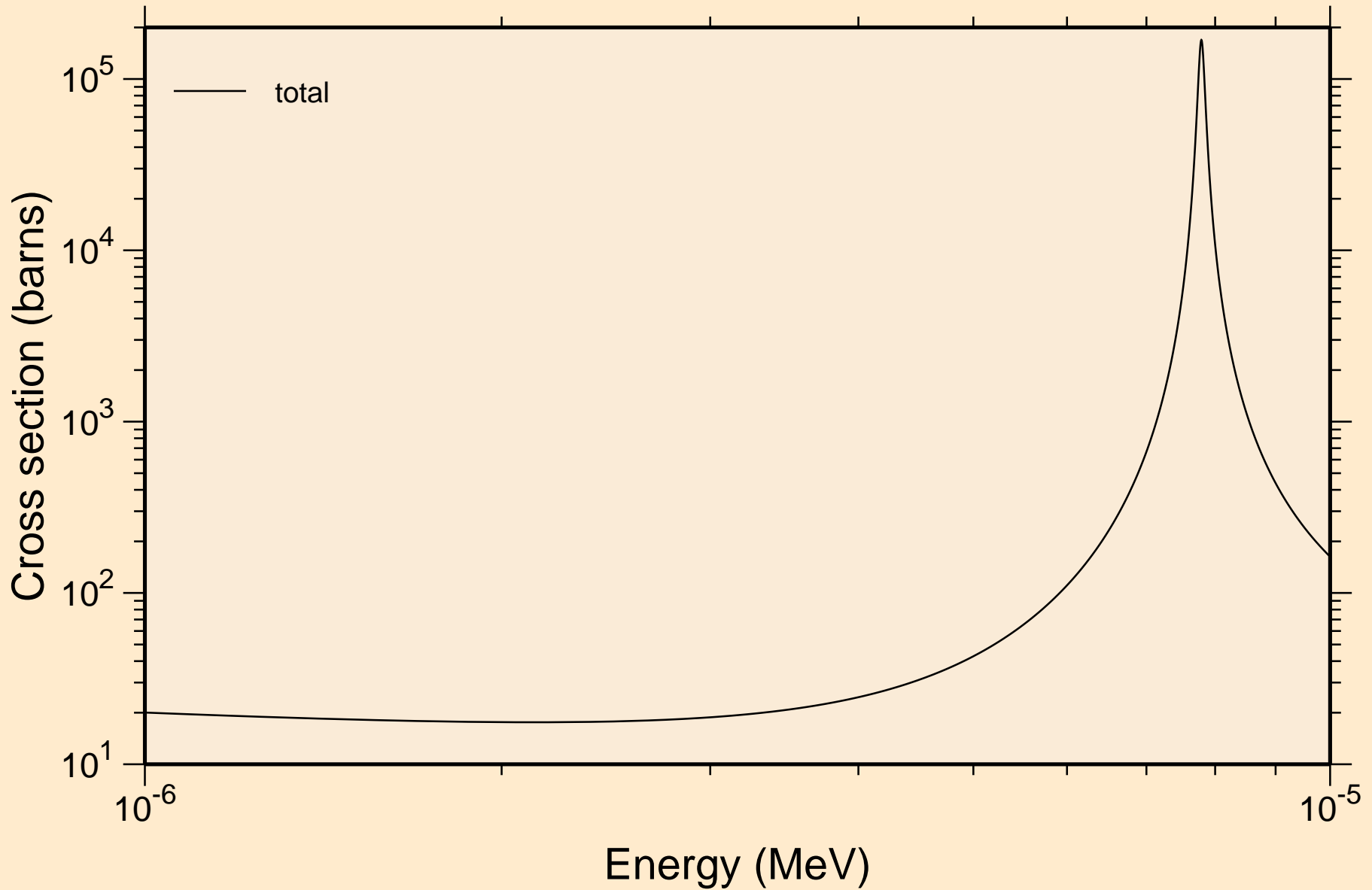


# HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

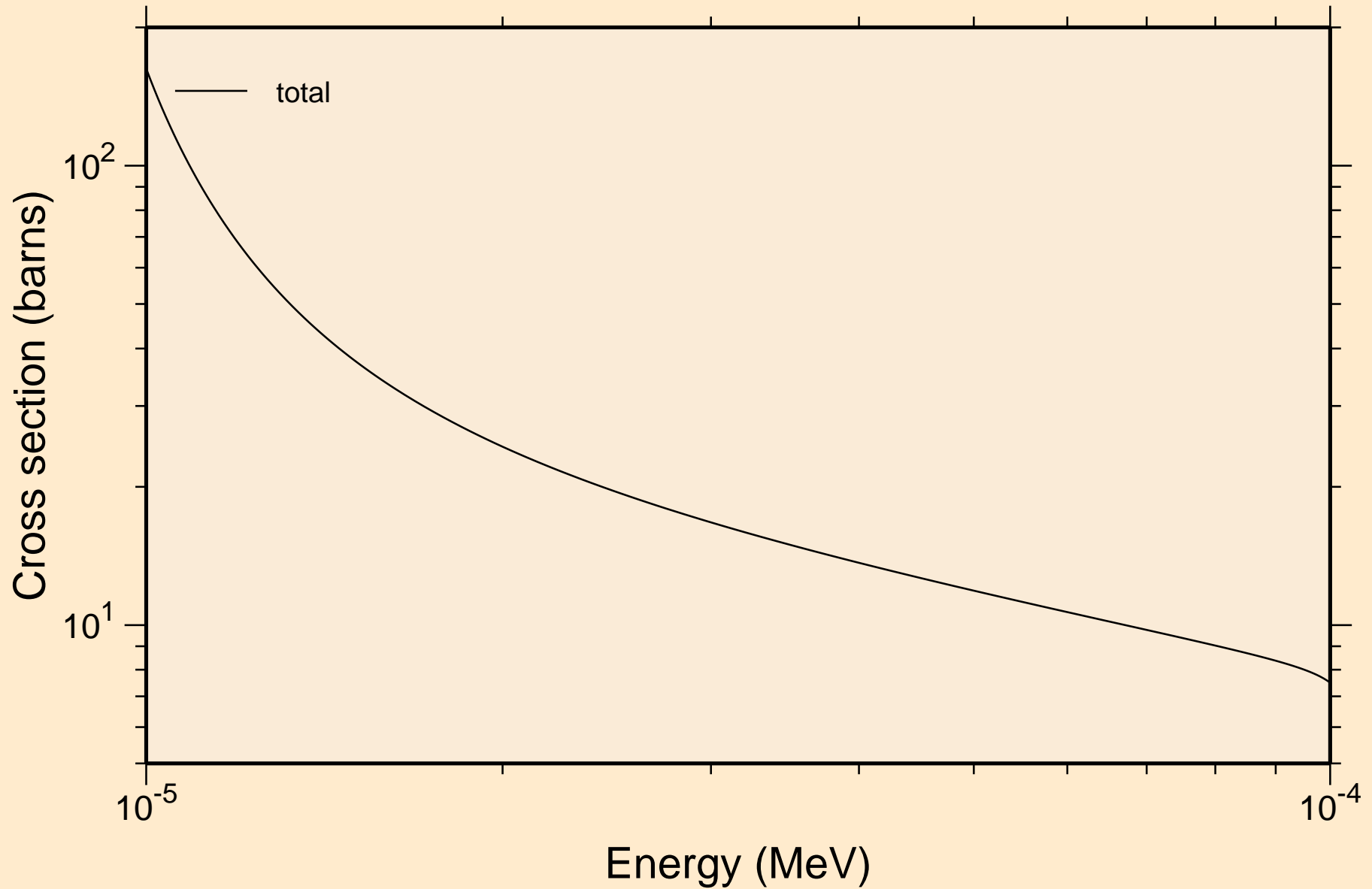
## Principal cross sections



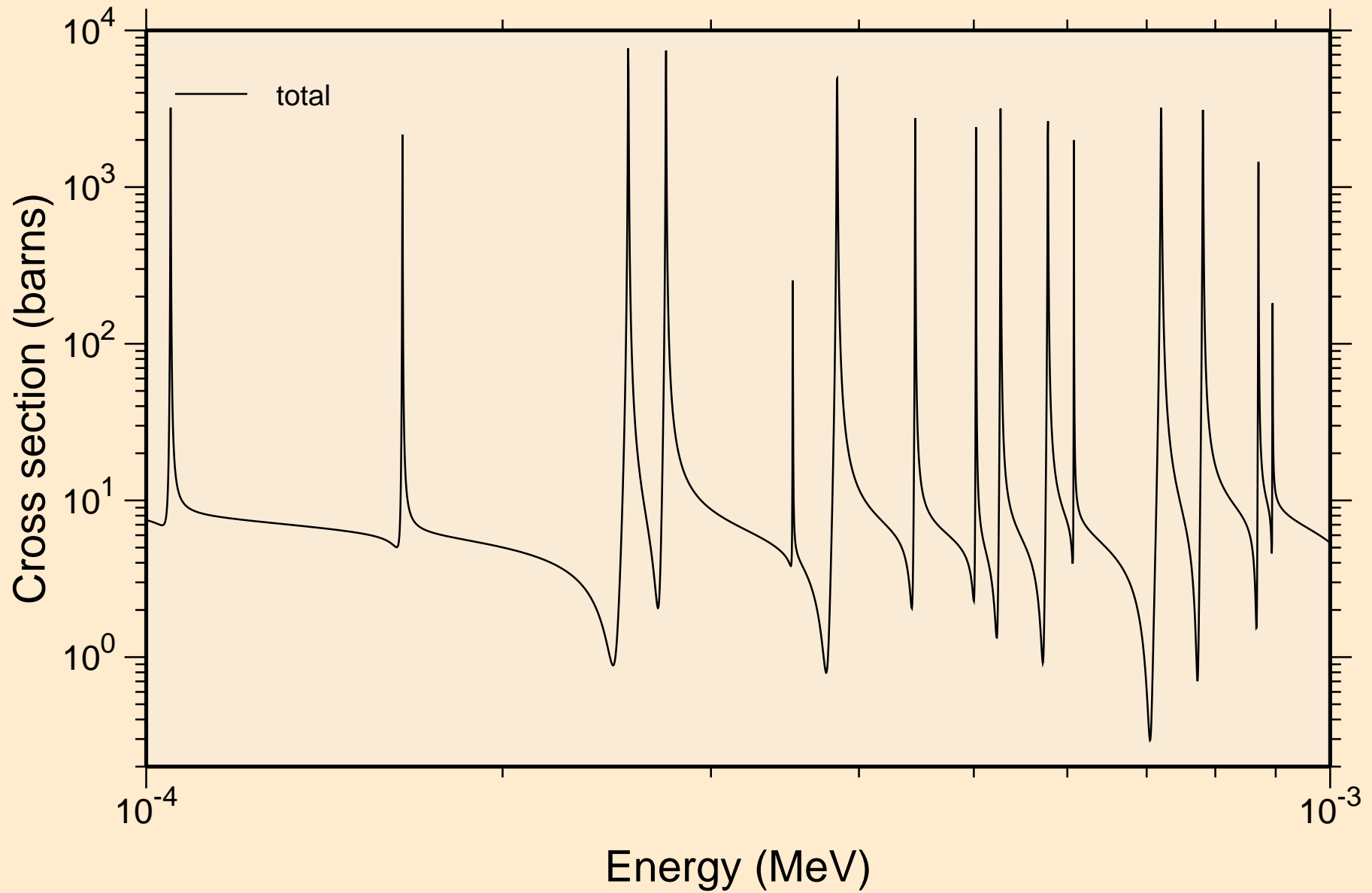
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



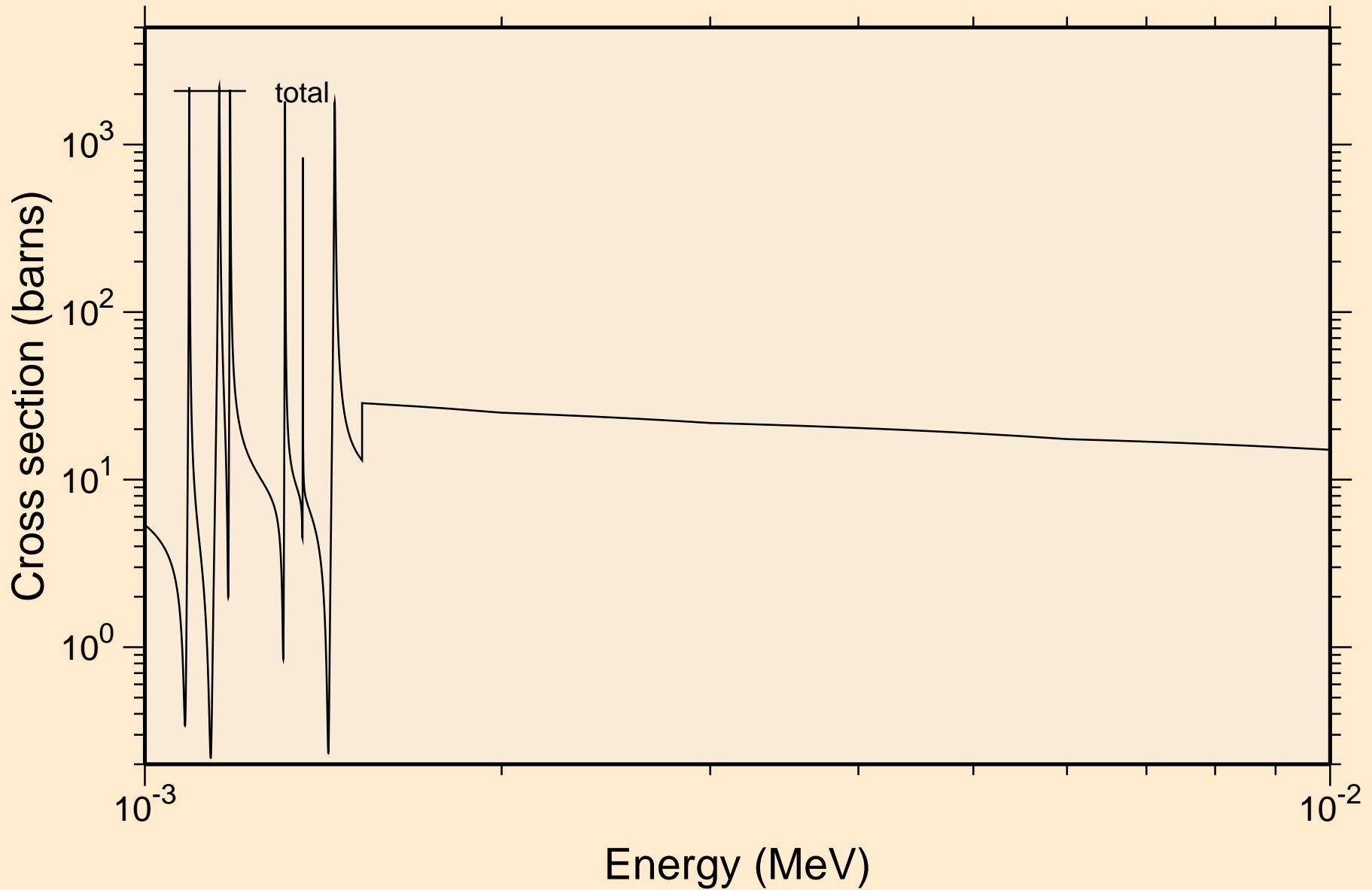
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



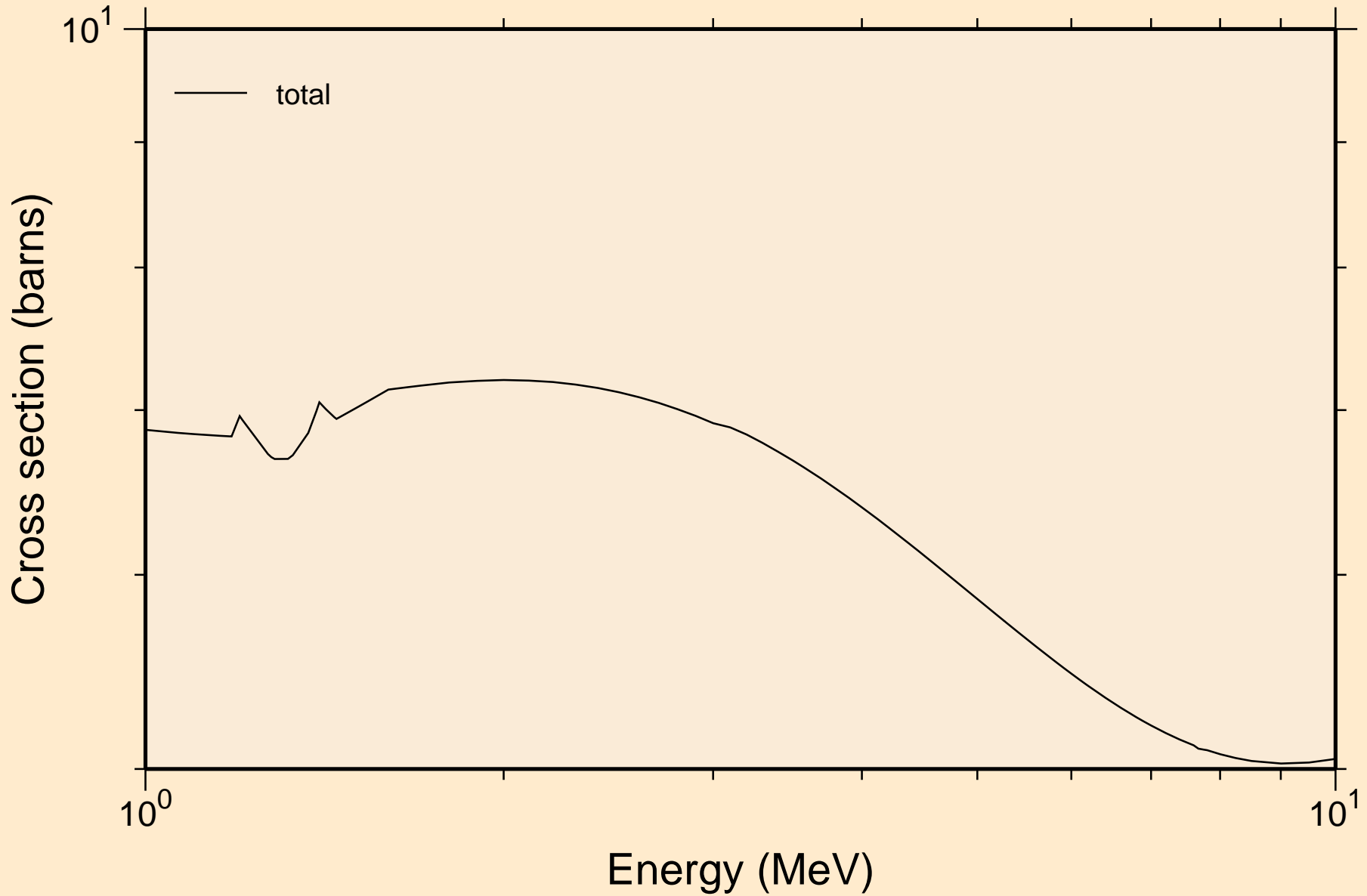
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



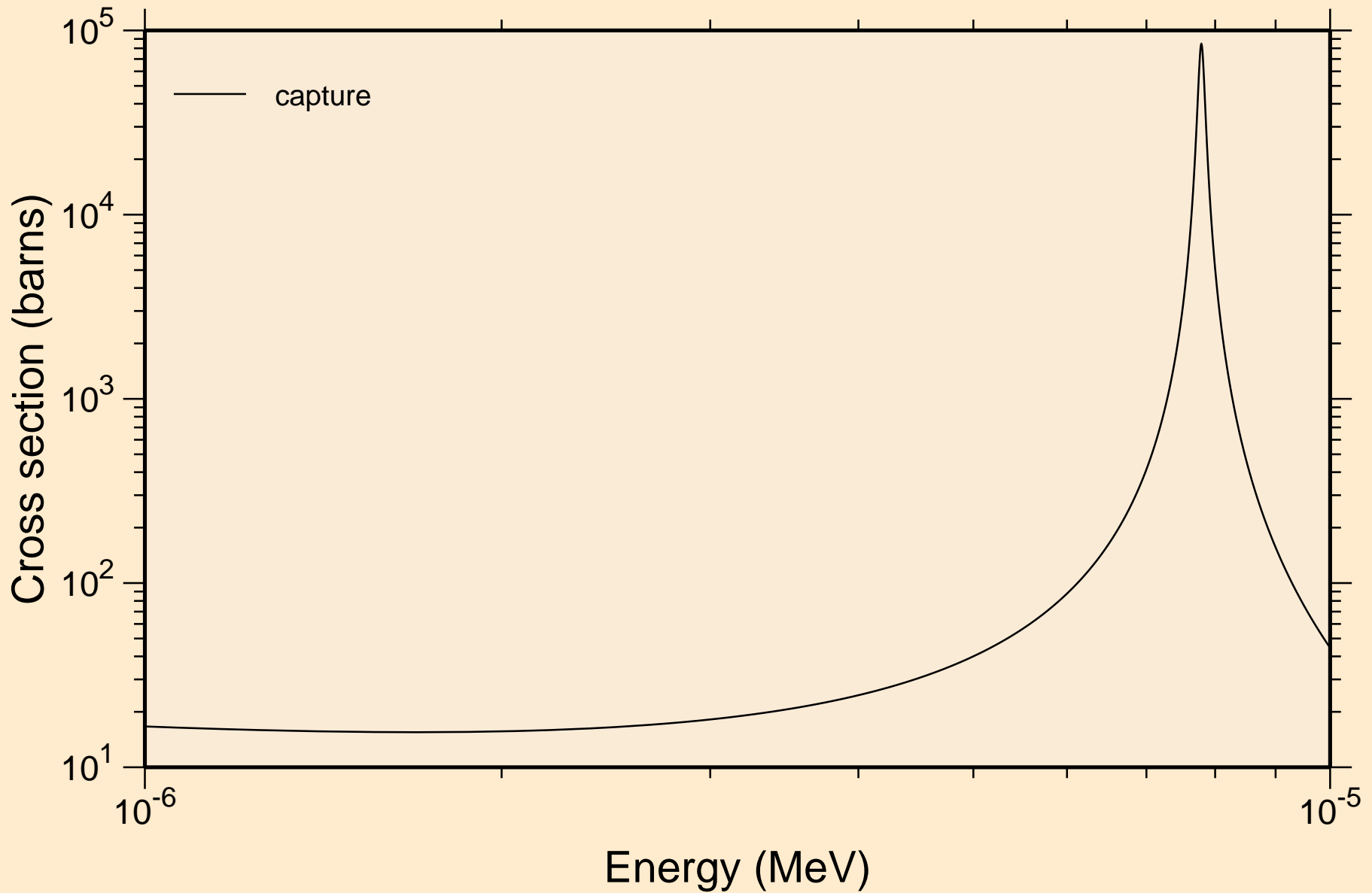
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



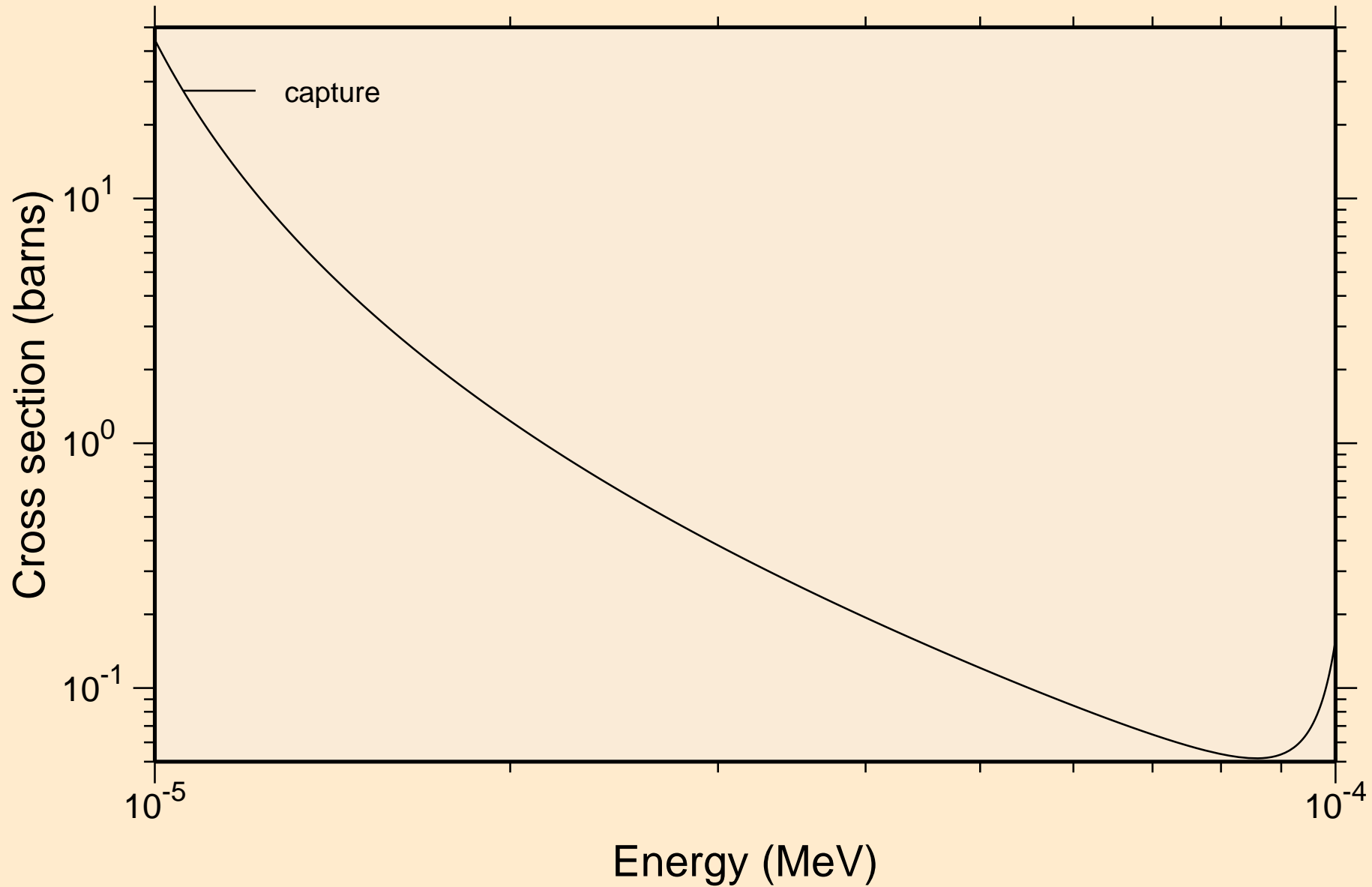
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

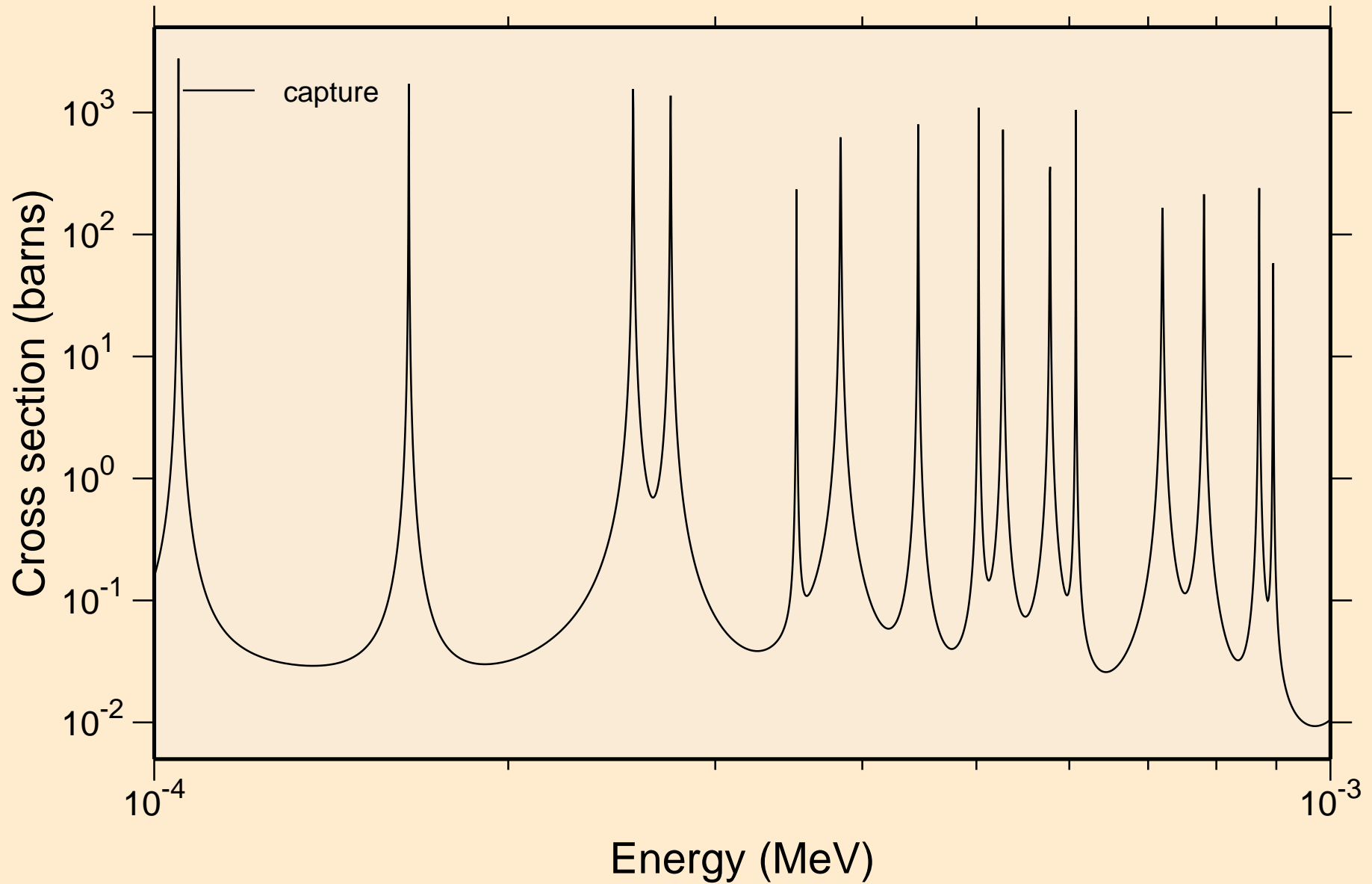


HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

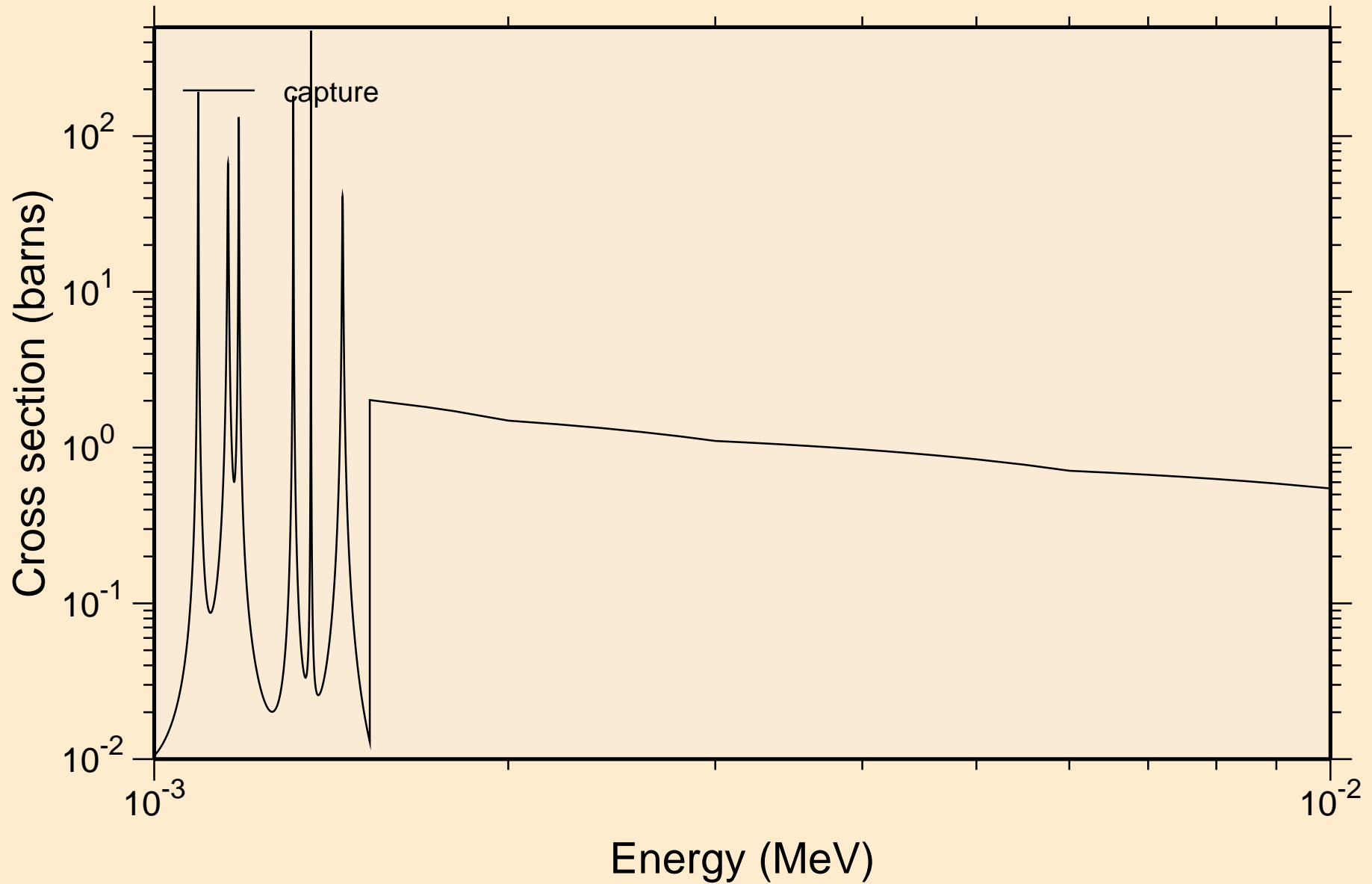




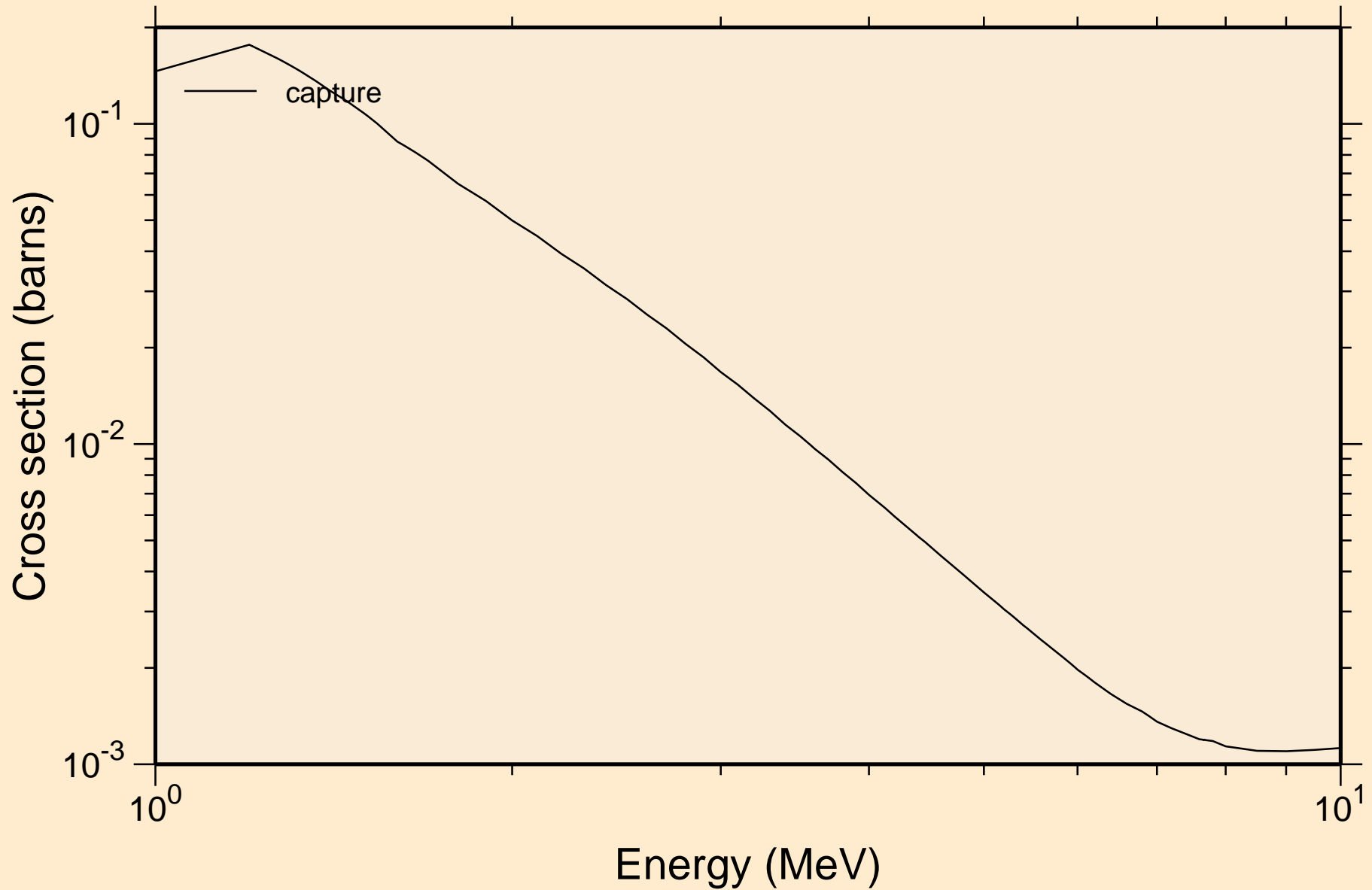
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



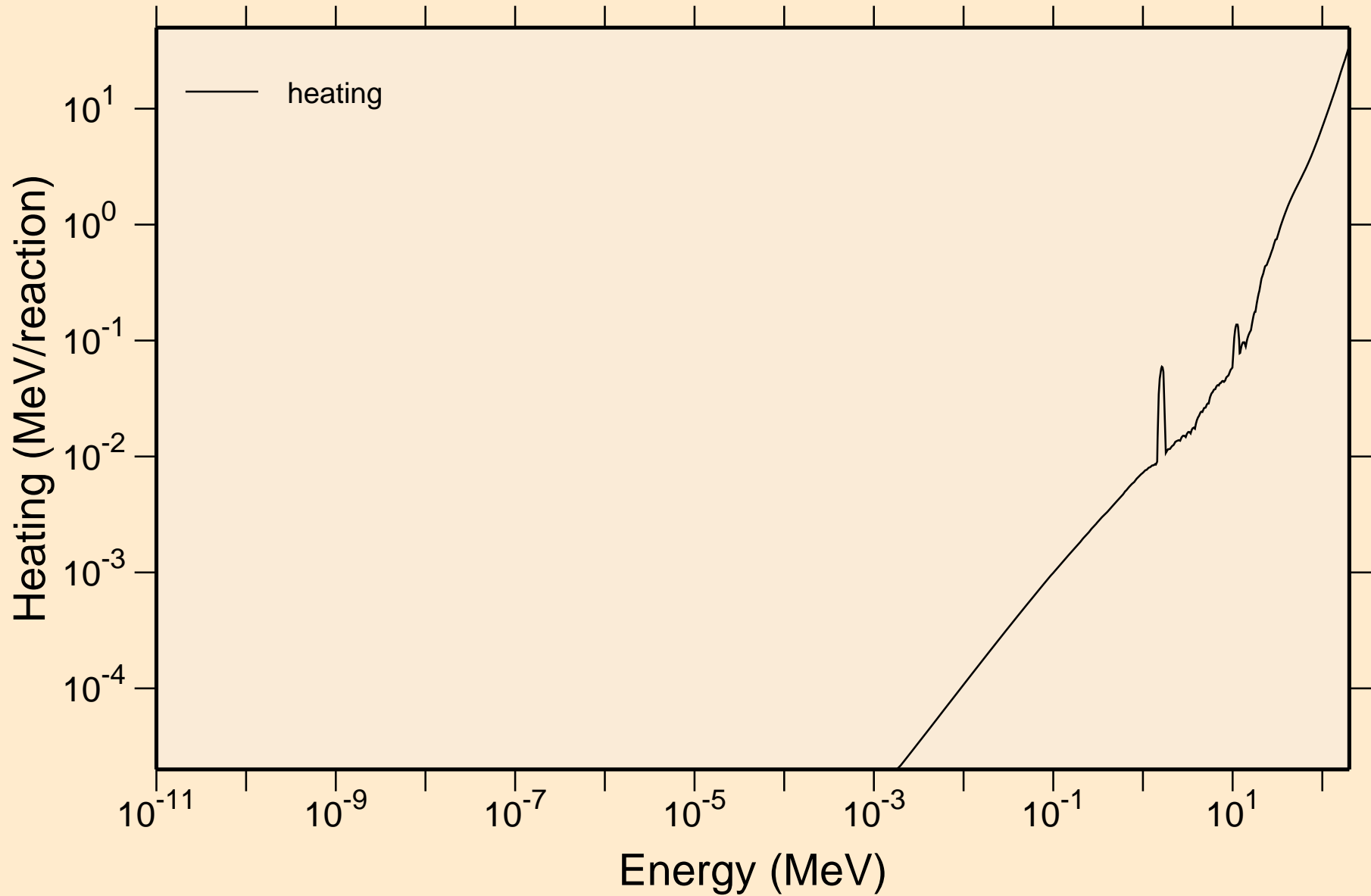
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

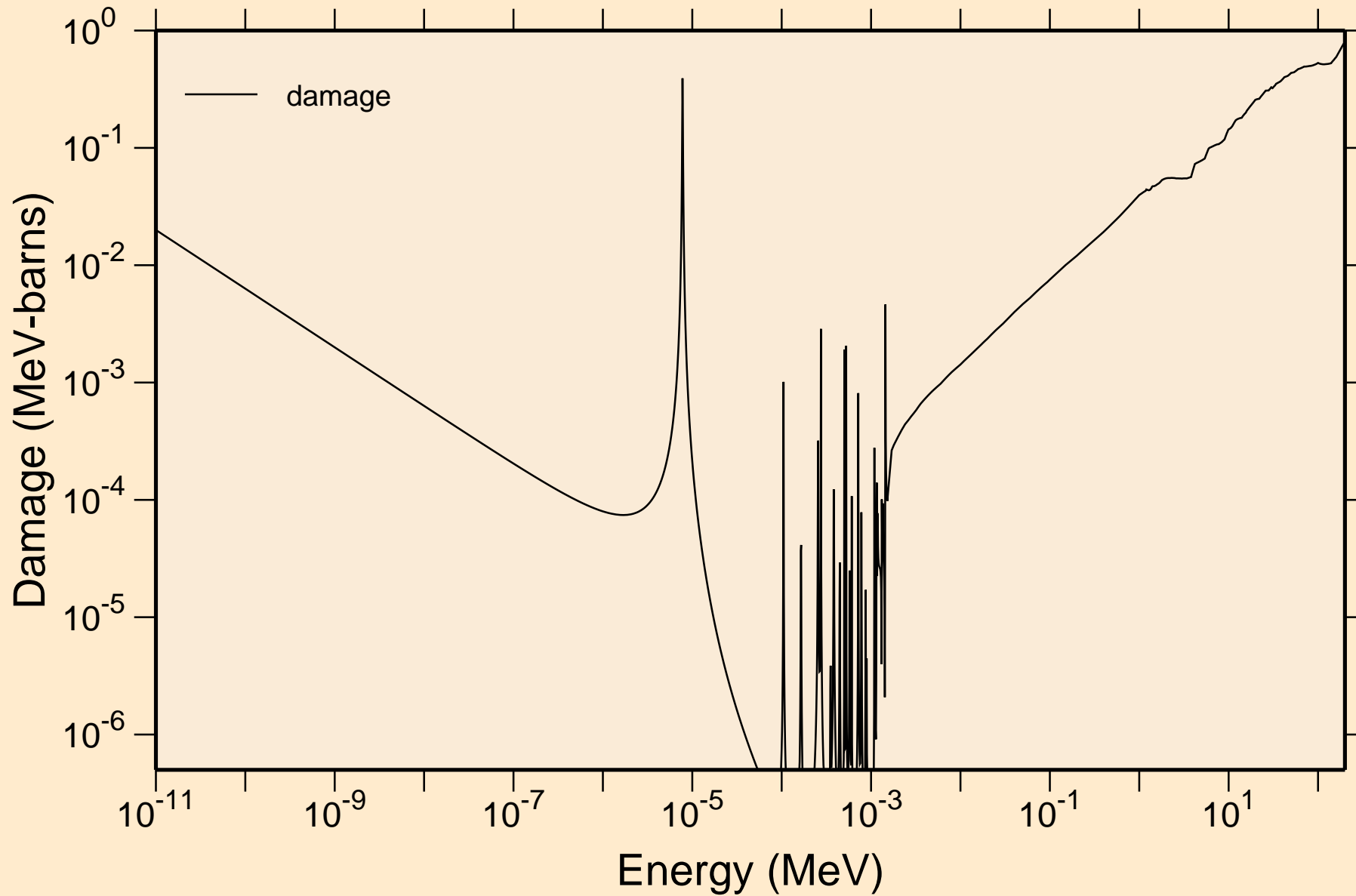


HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Heating



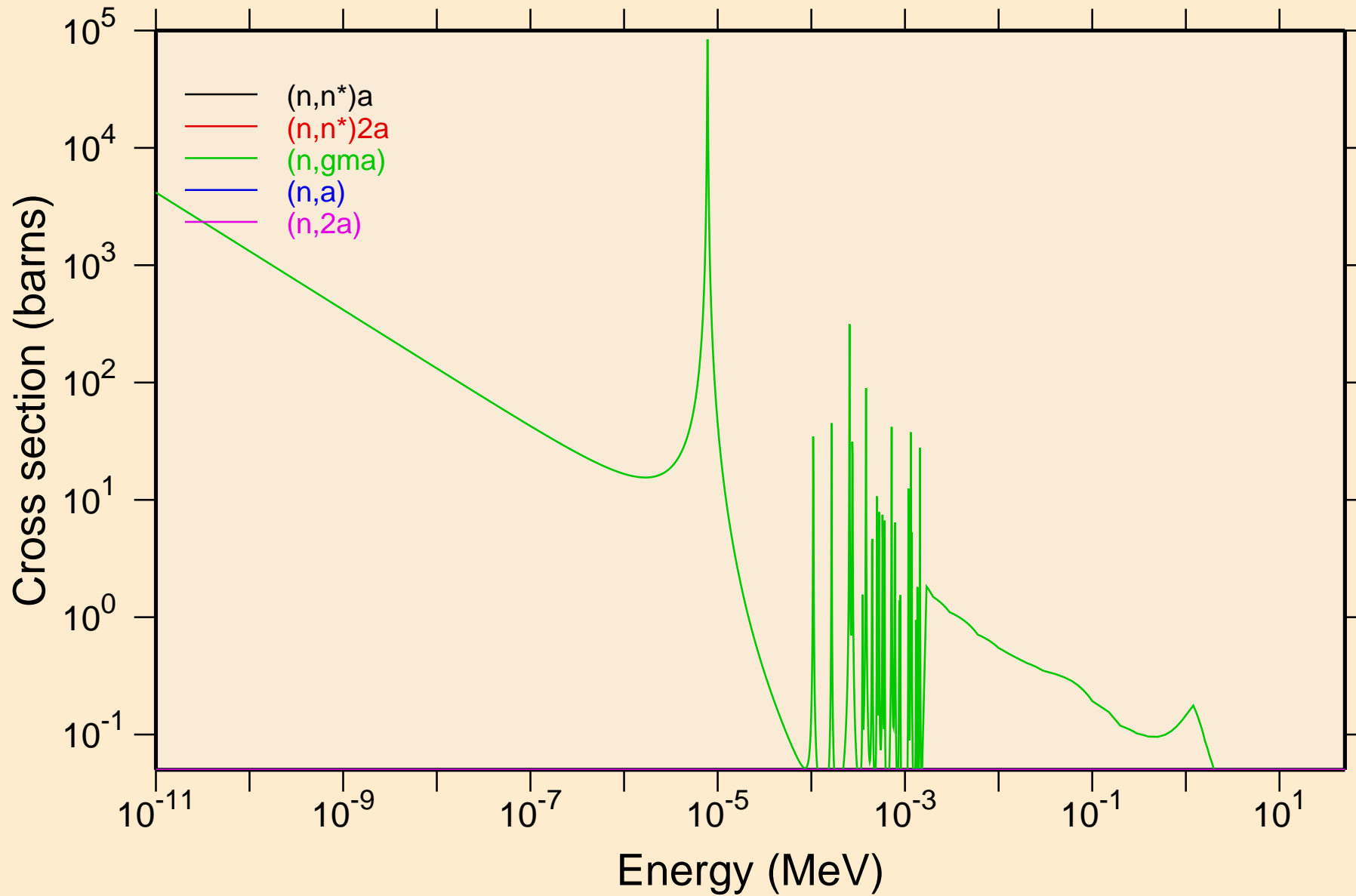
# HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Damage

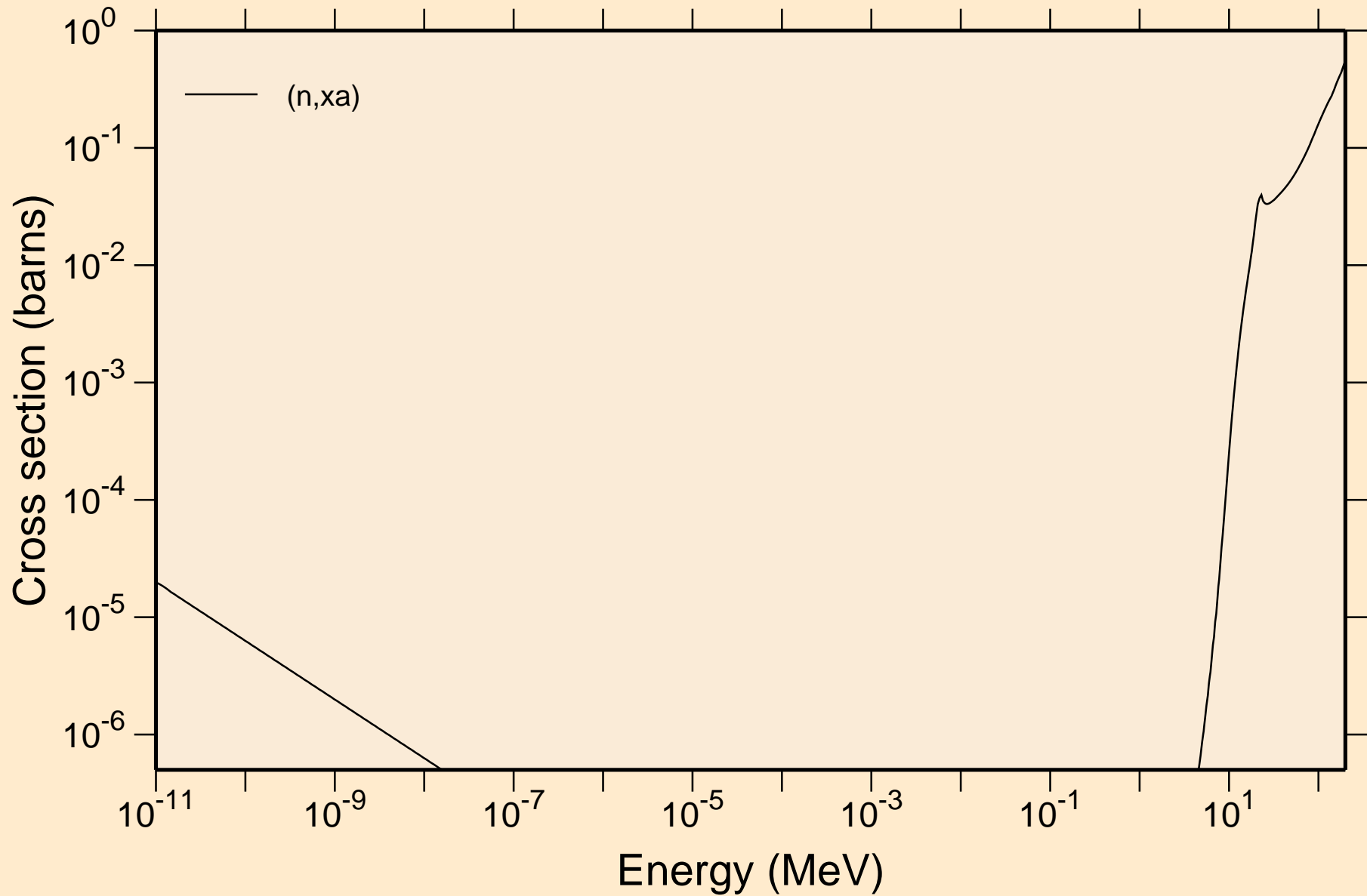


# HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Non-threshold reactions

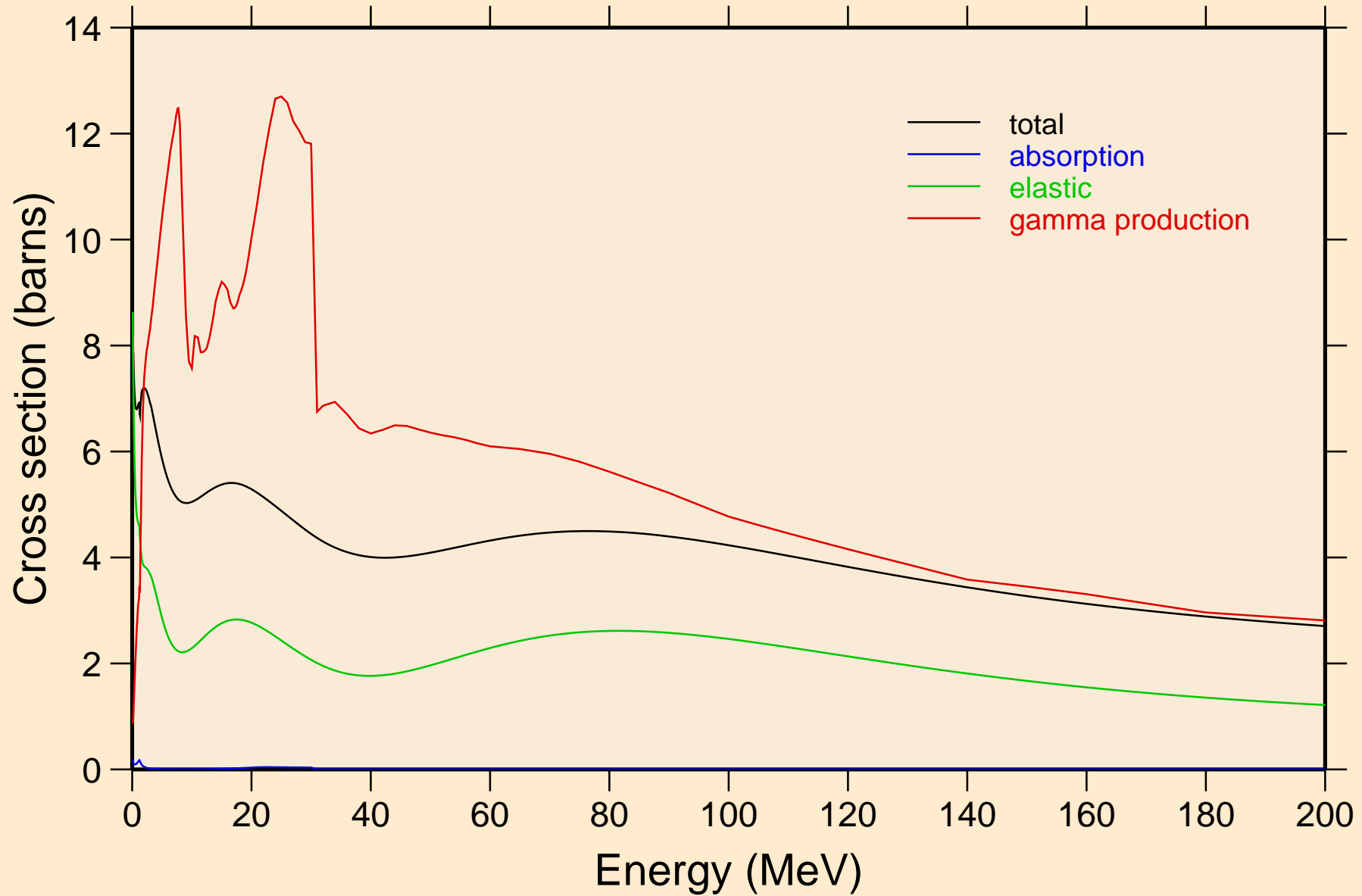


HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



# HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

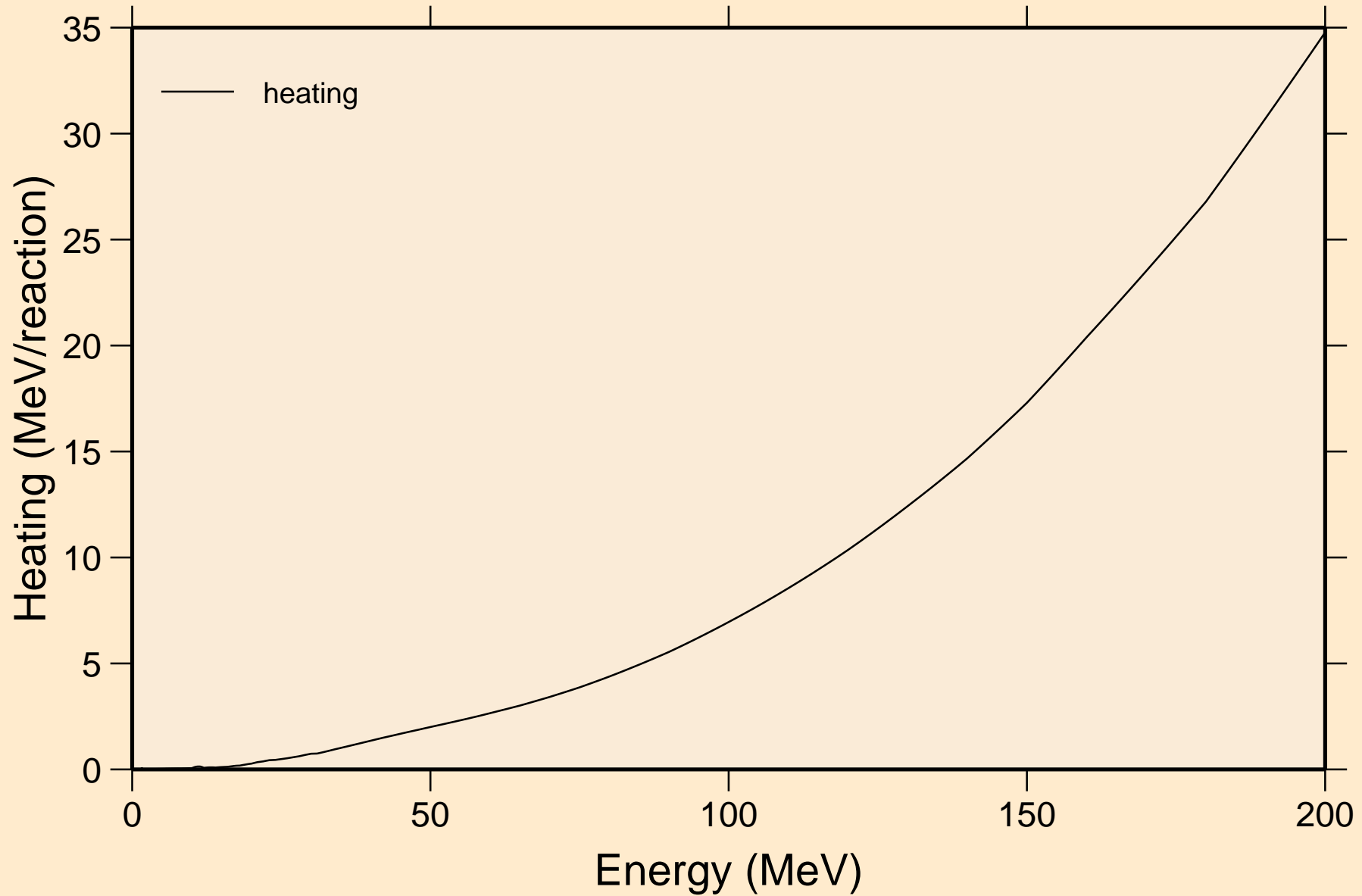
## Principal cross sections





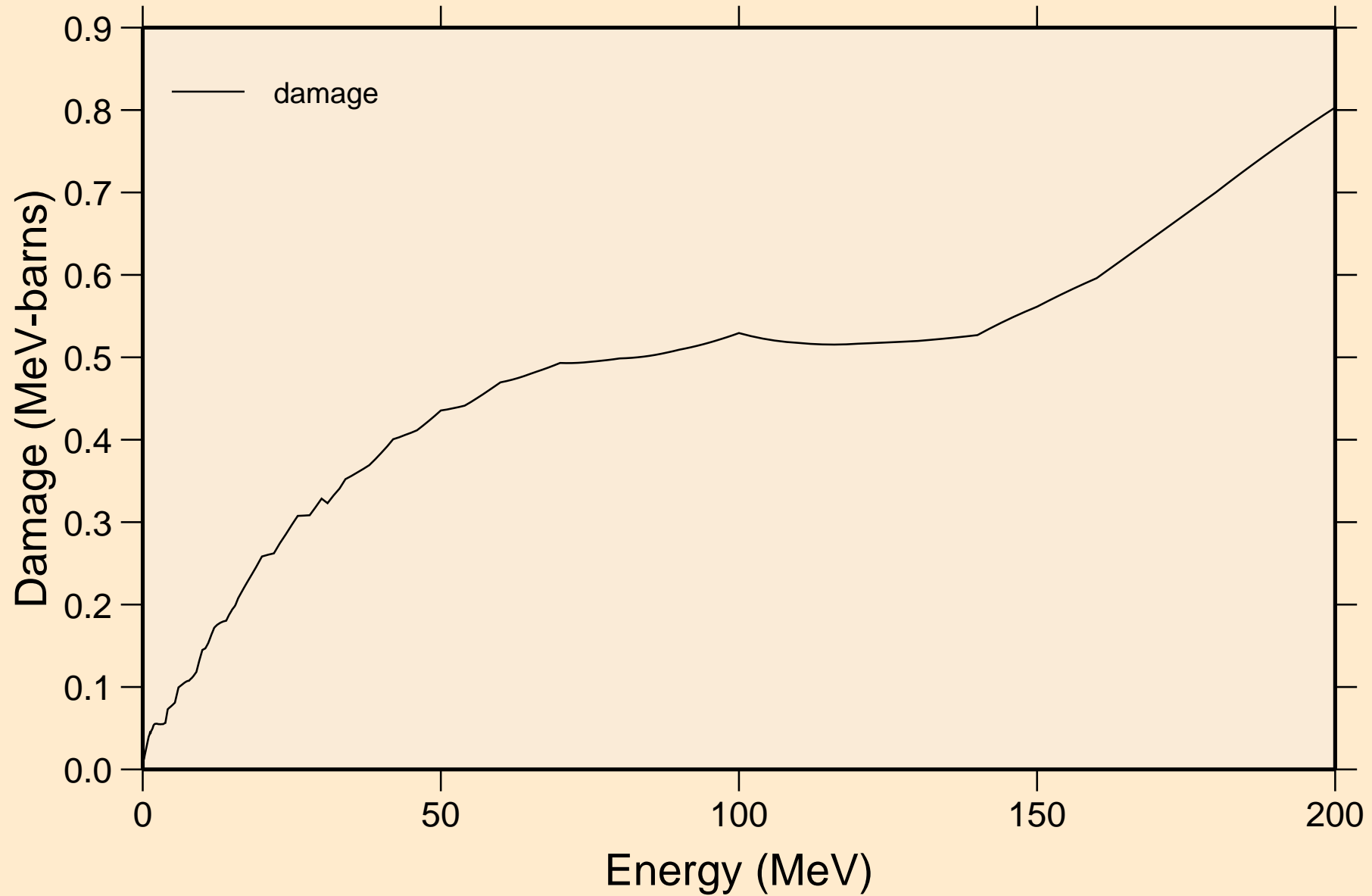
# HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Heating



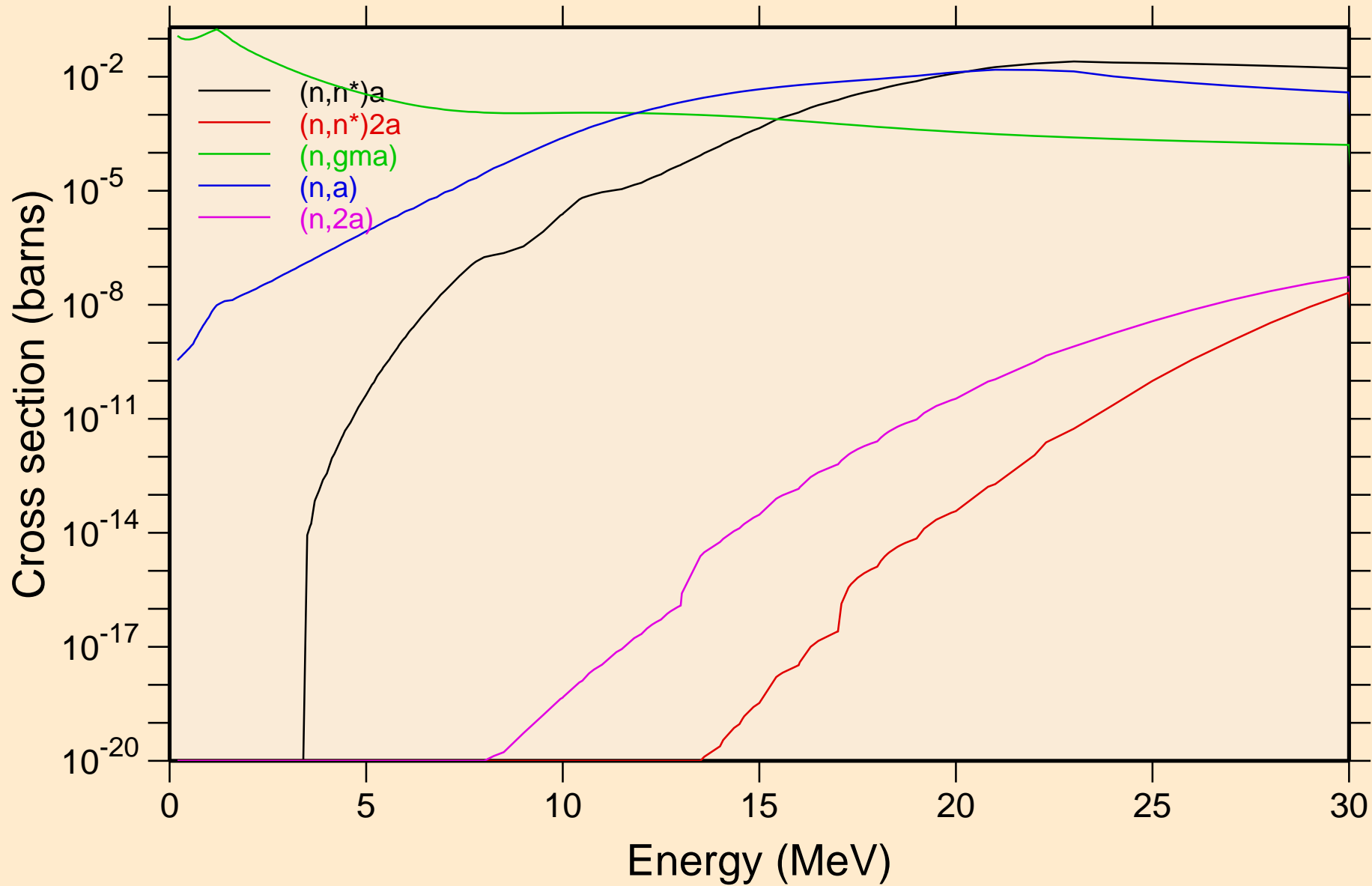
# HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Damage

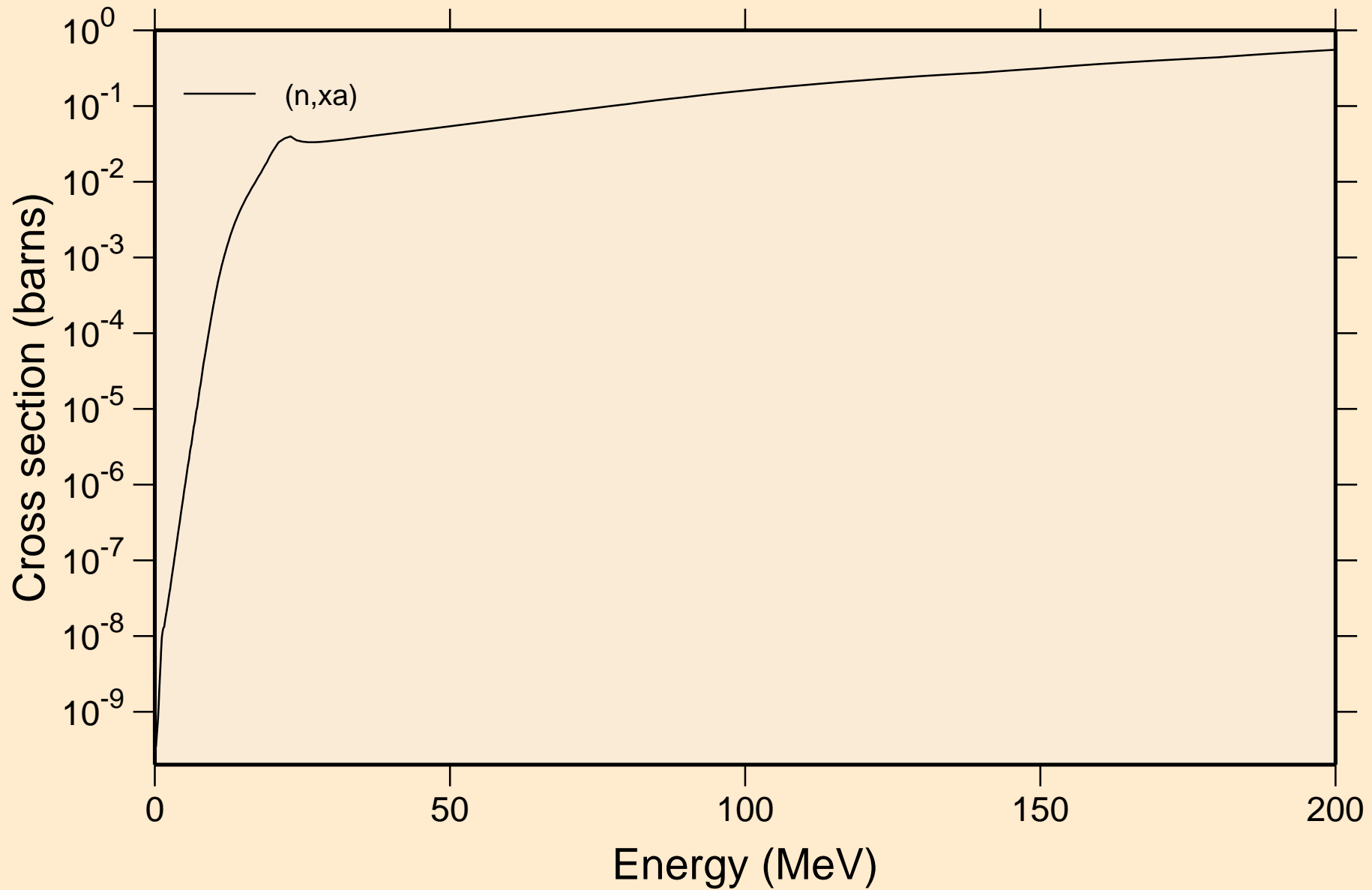


# HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Non-threshold reactions

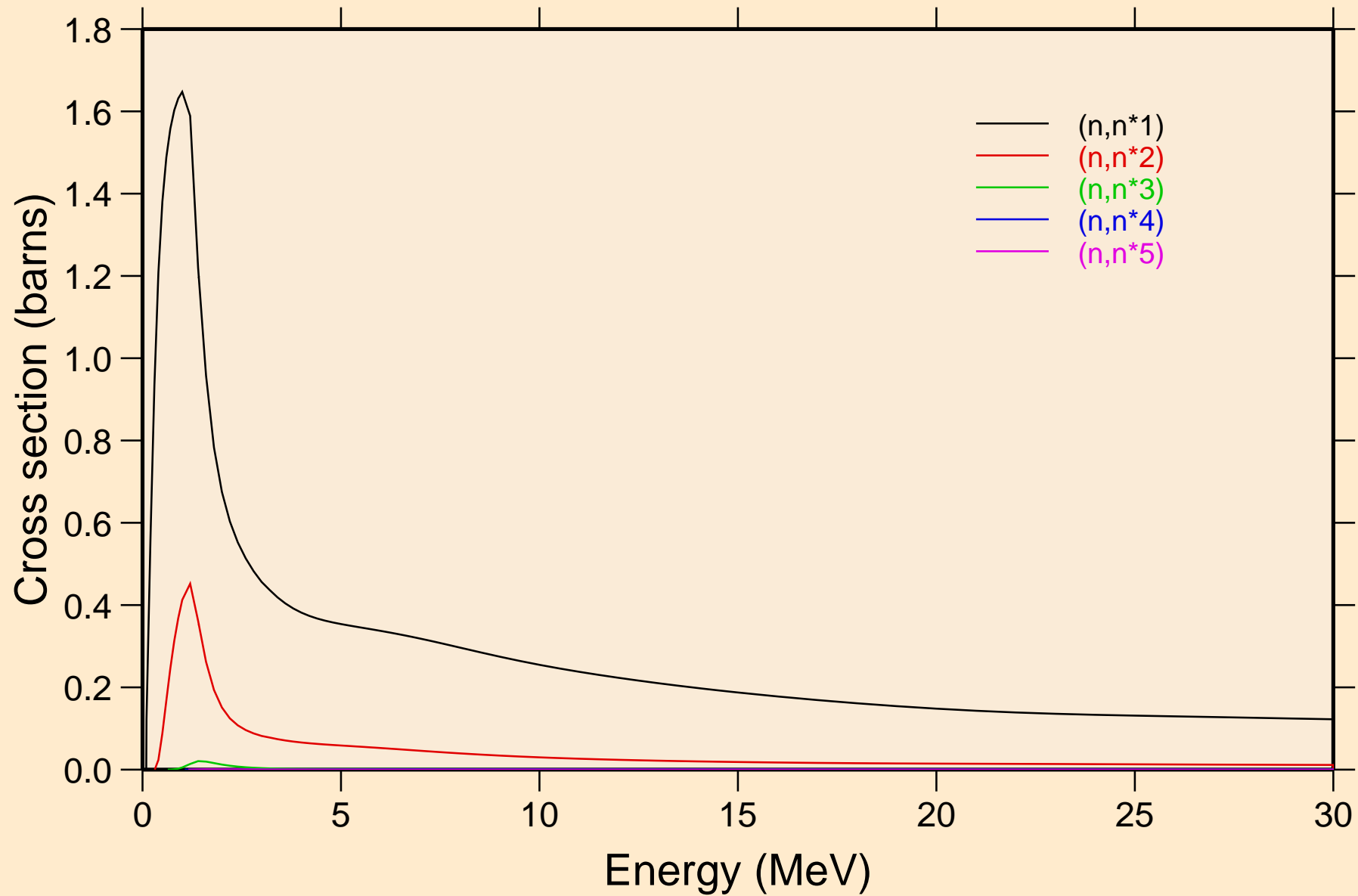


HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



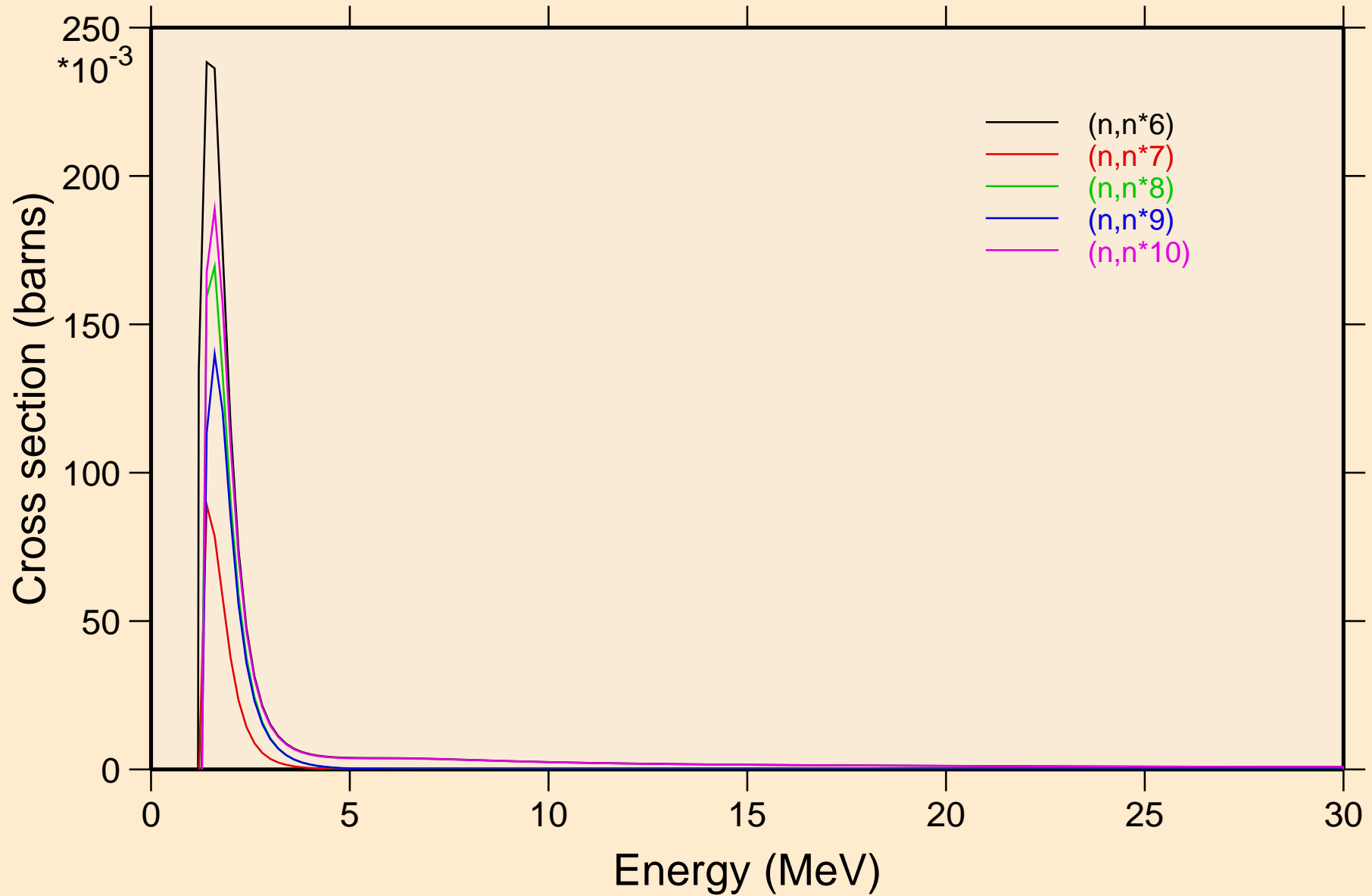
# HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Inelastic levels

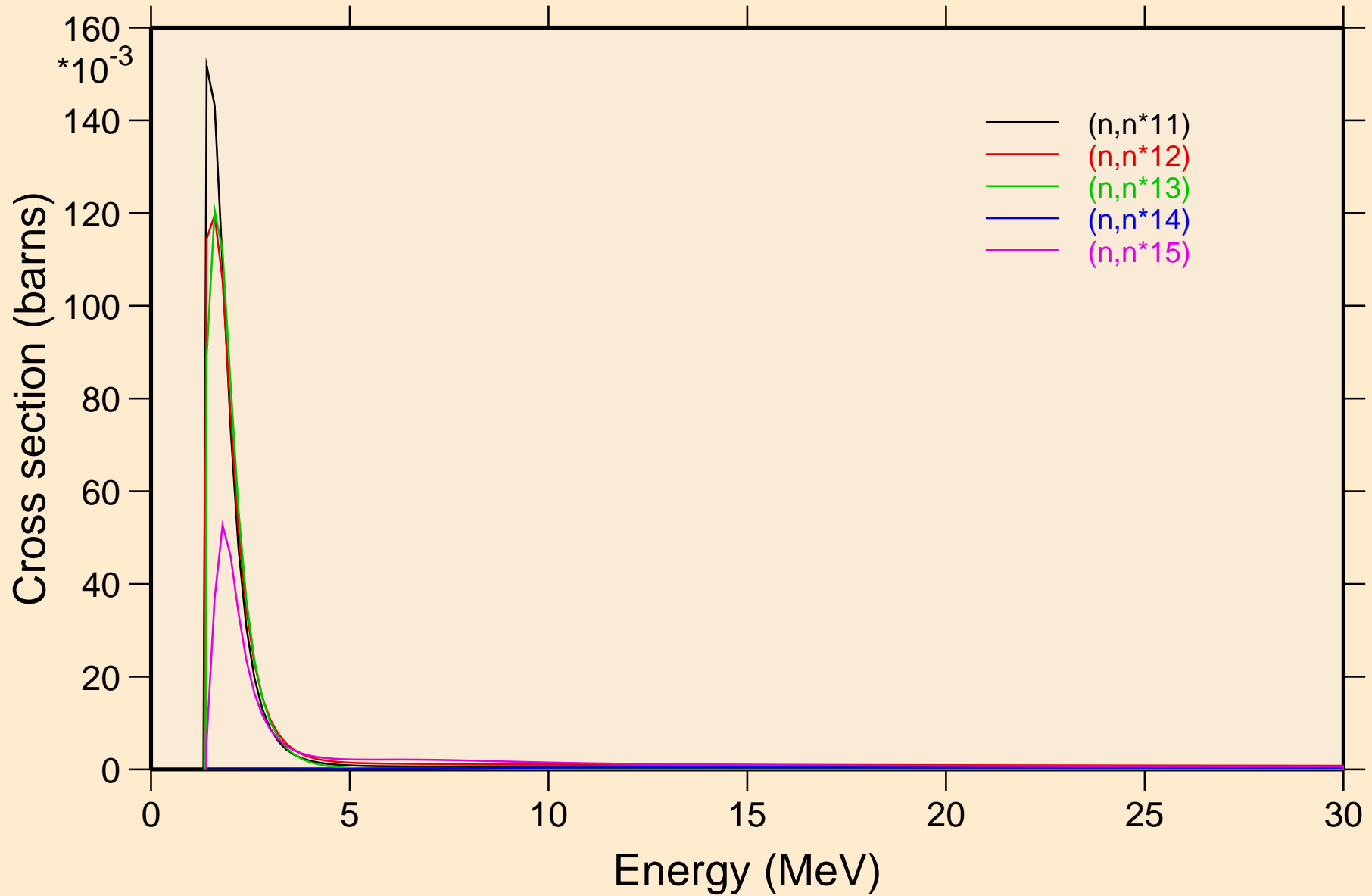


# HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

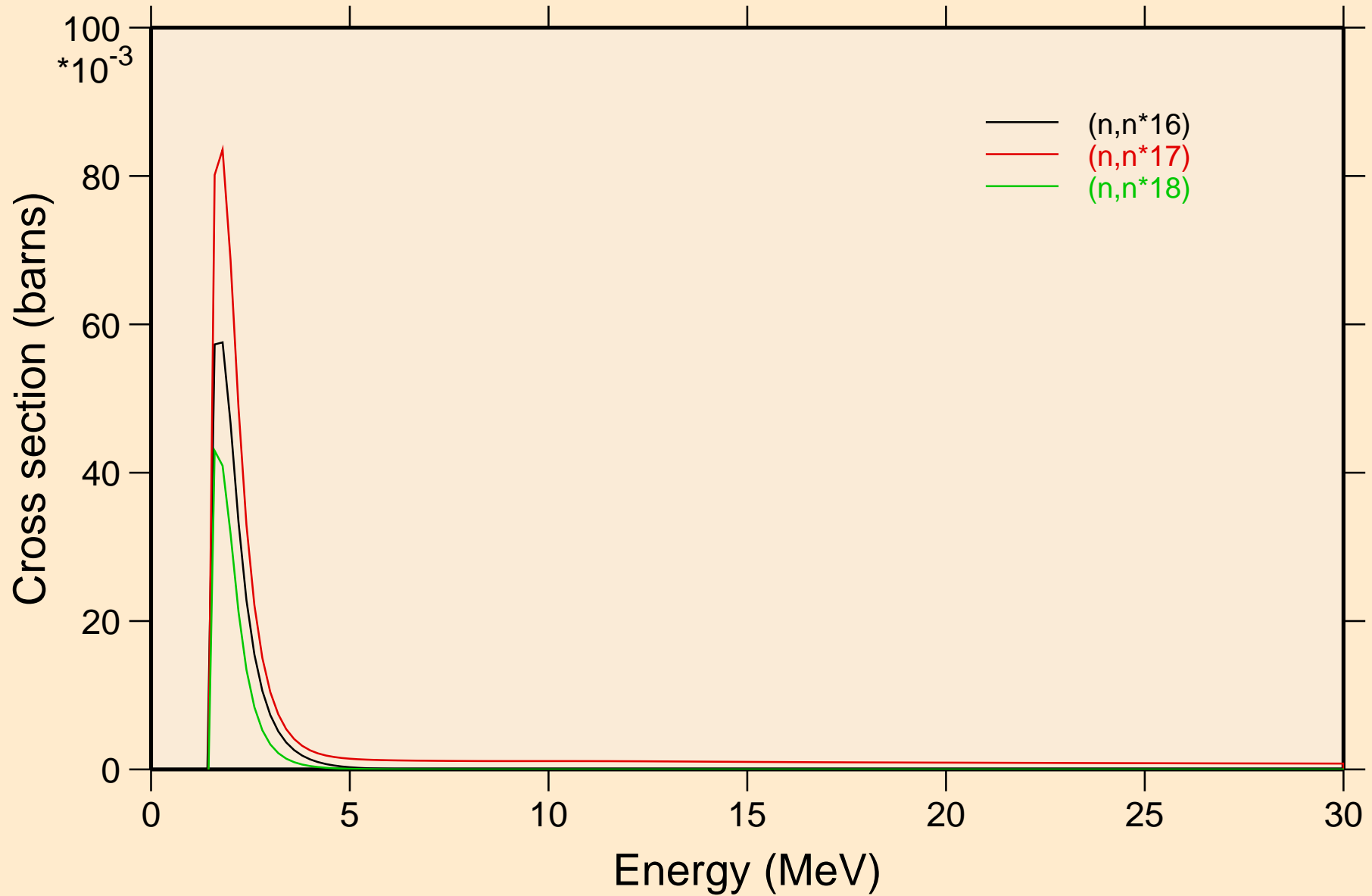
## Inelastic levels



HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



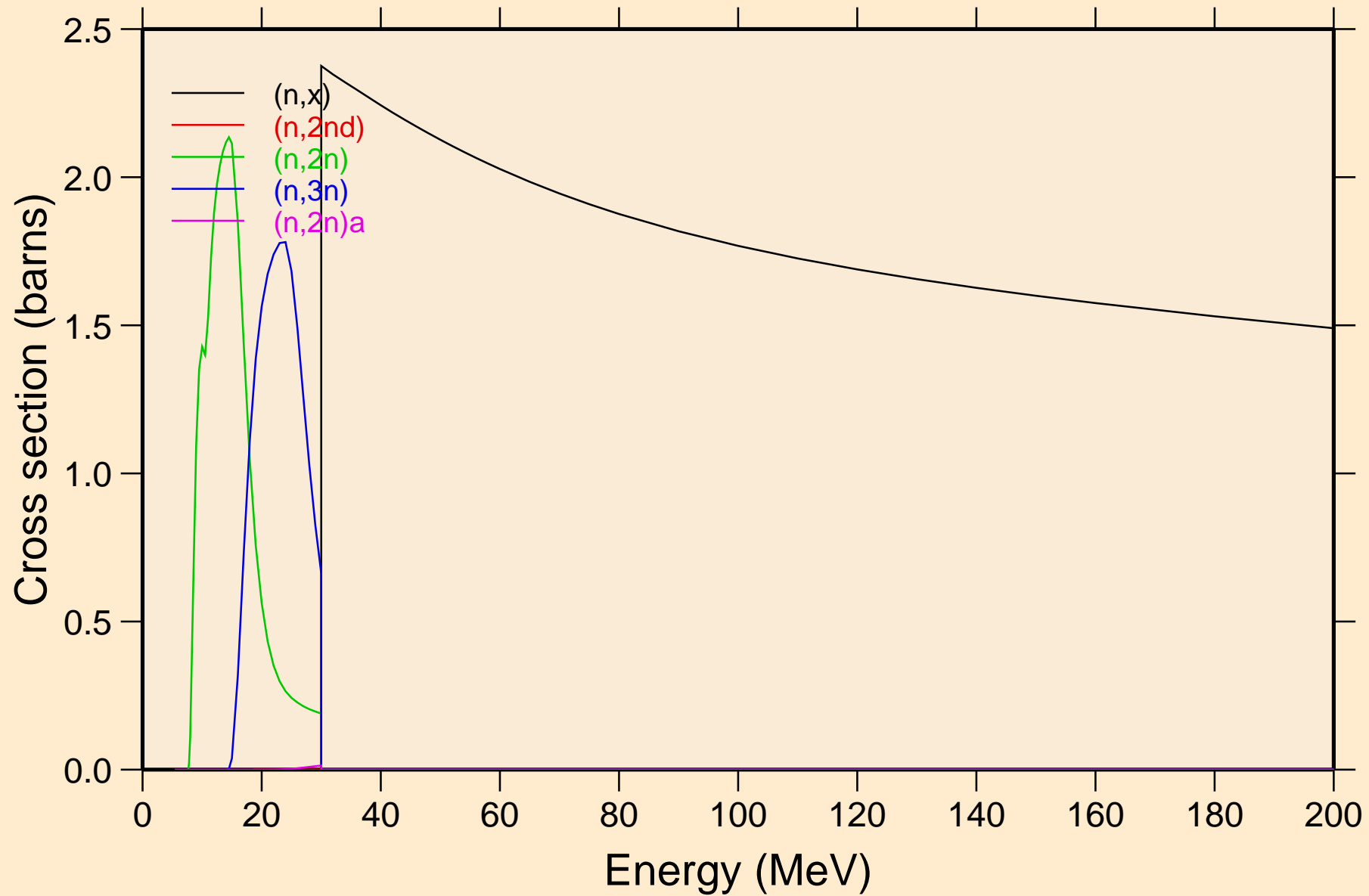
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels





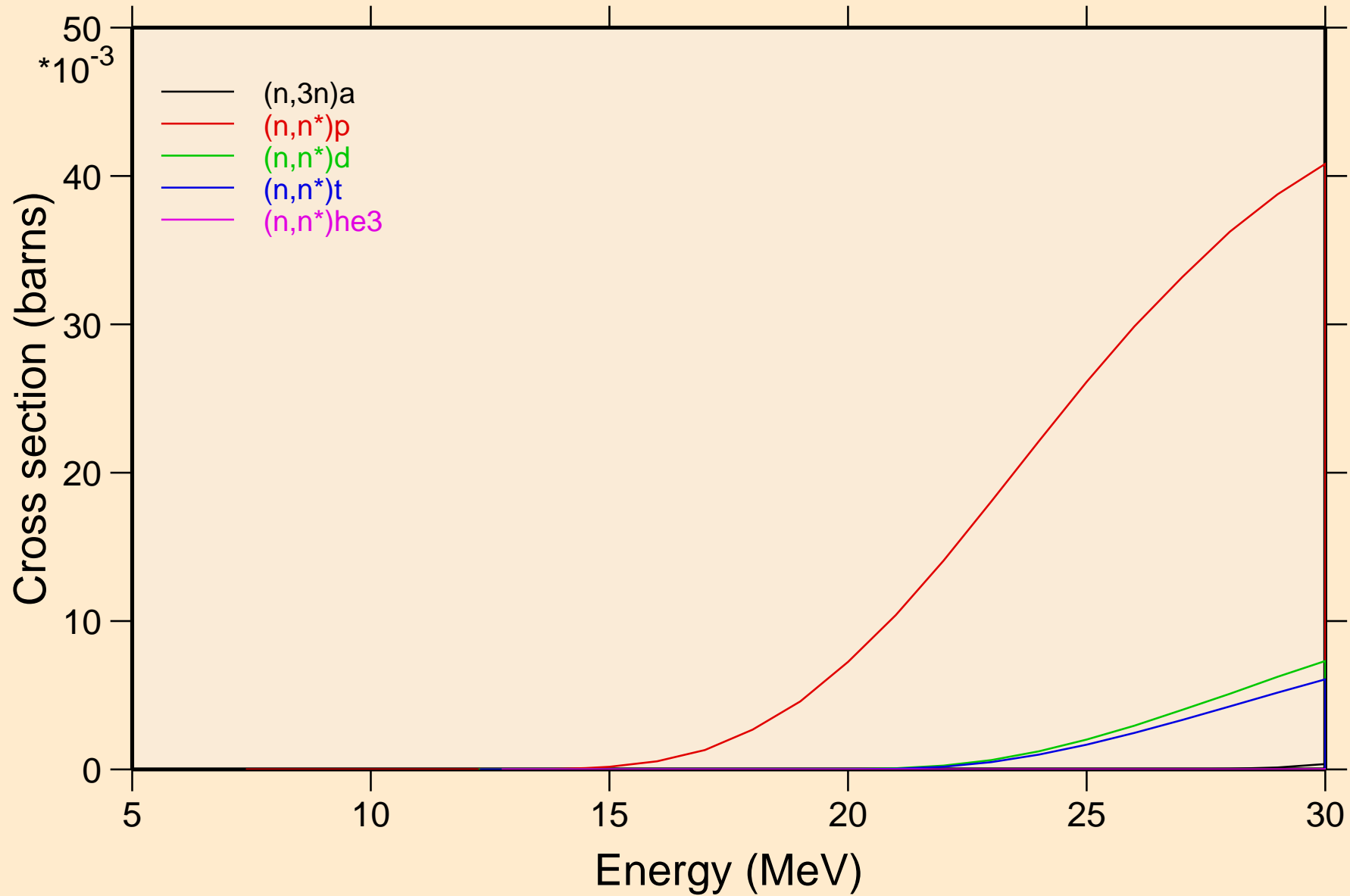
# HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions



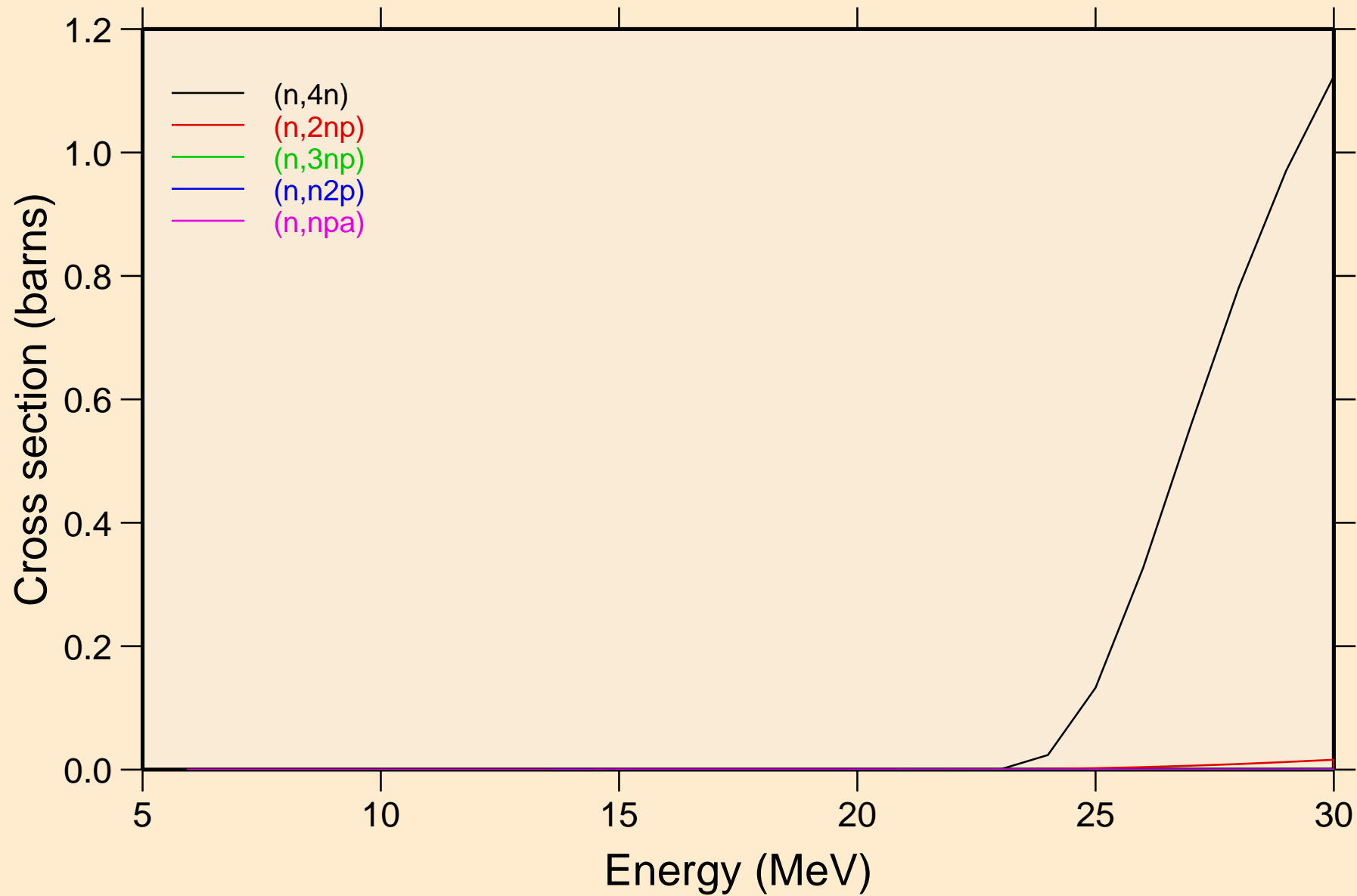
# HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions



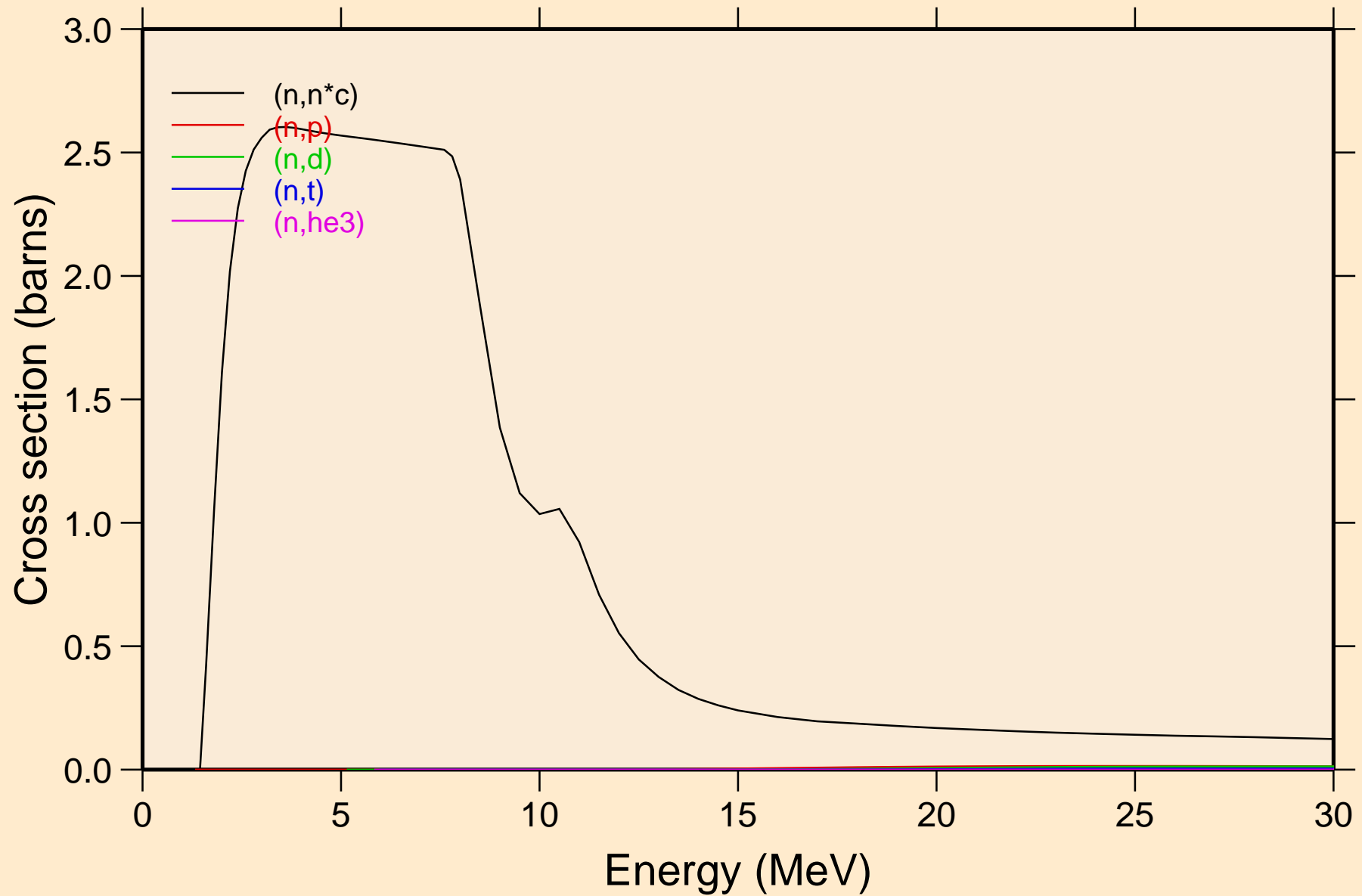
# HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions



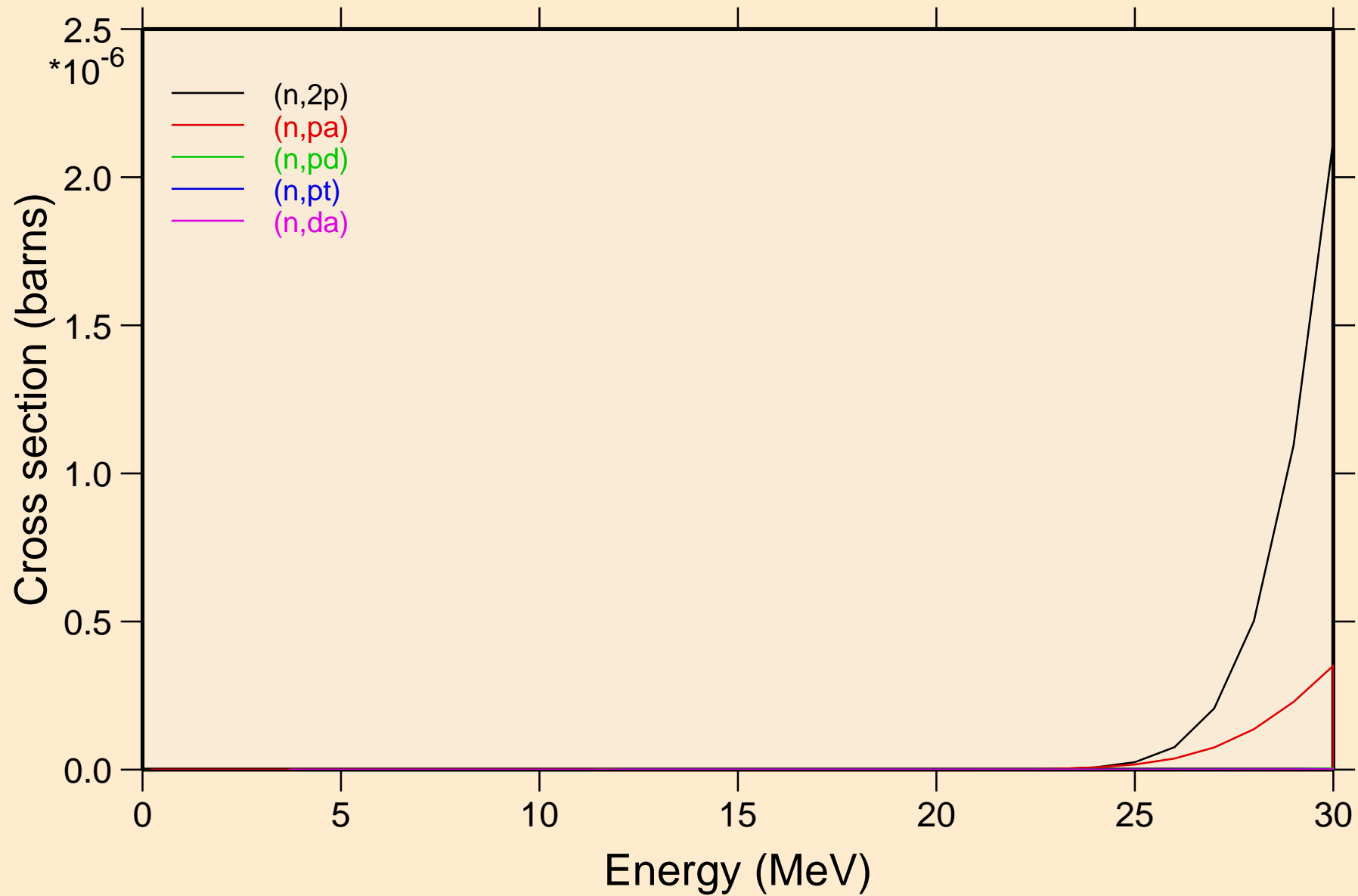
# HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions



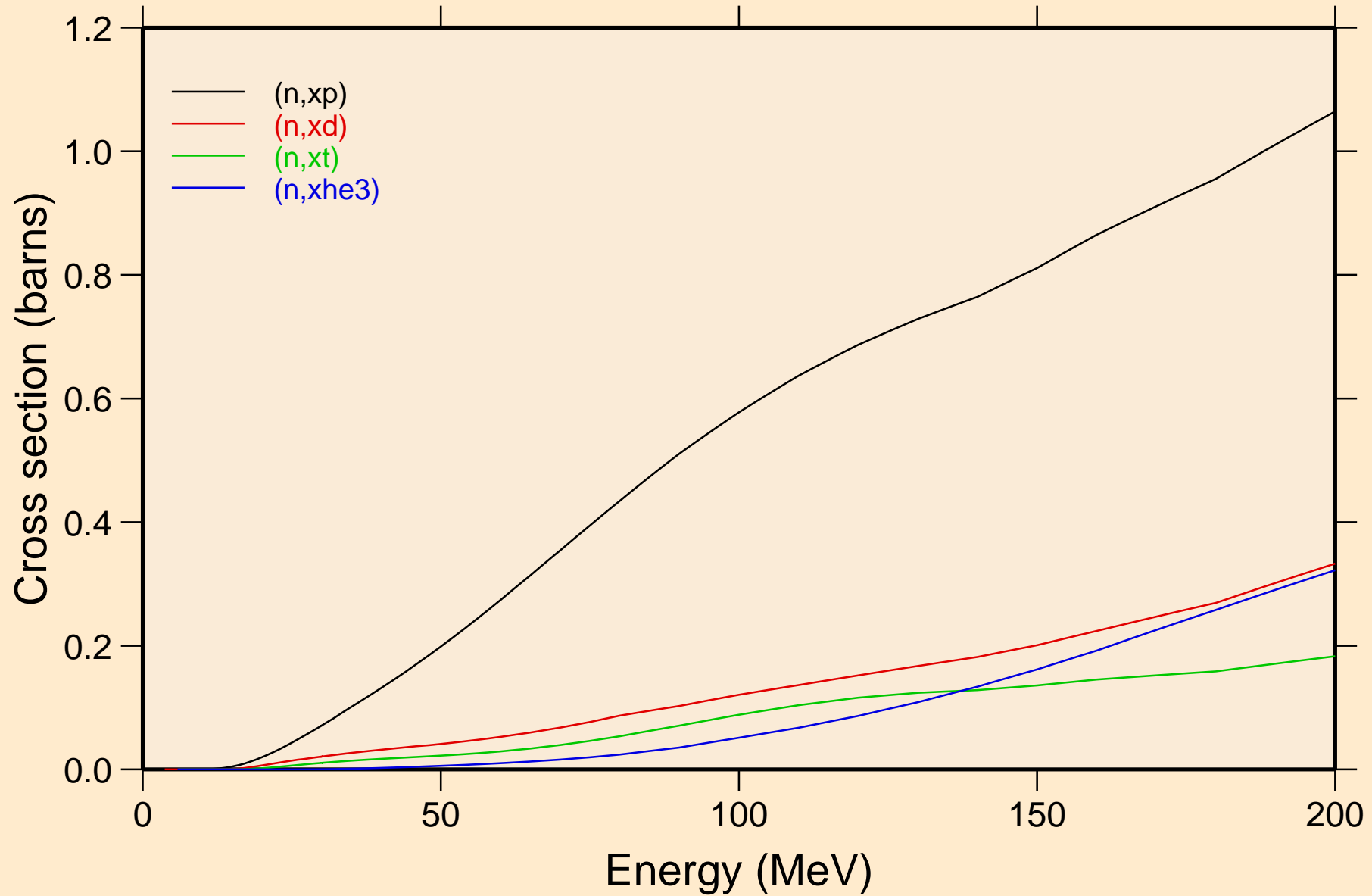
# HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions

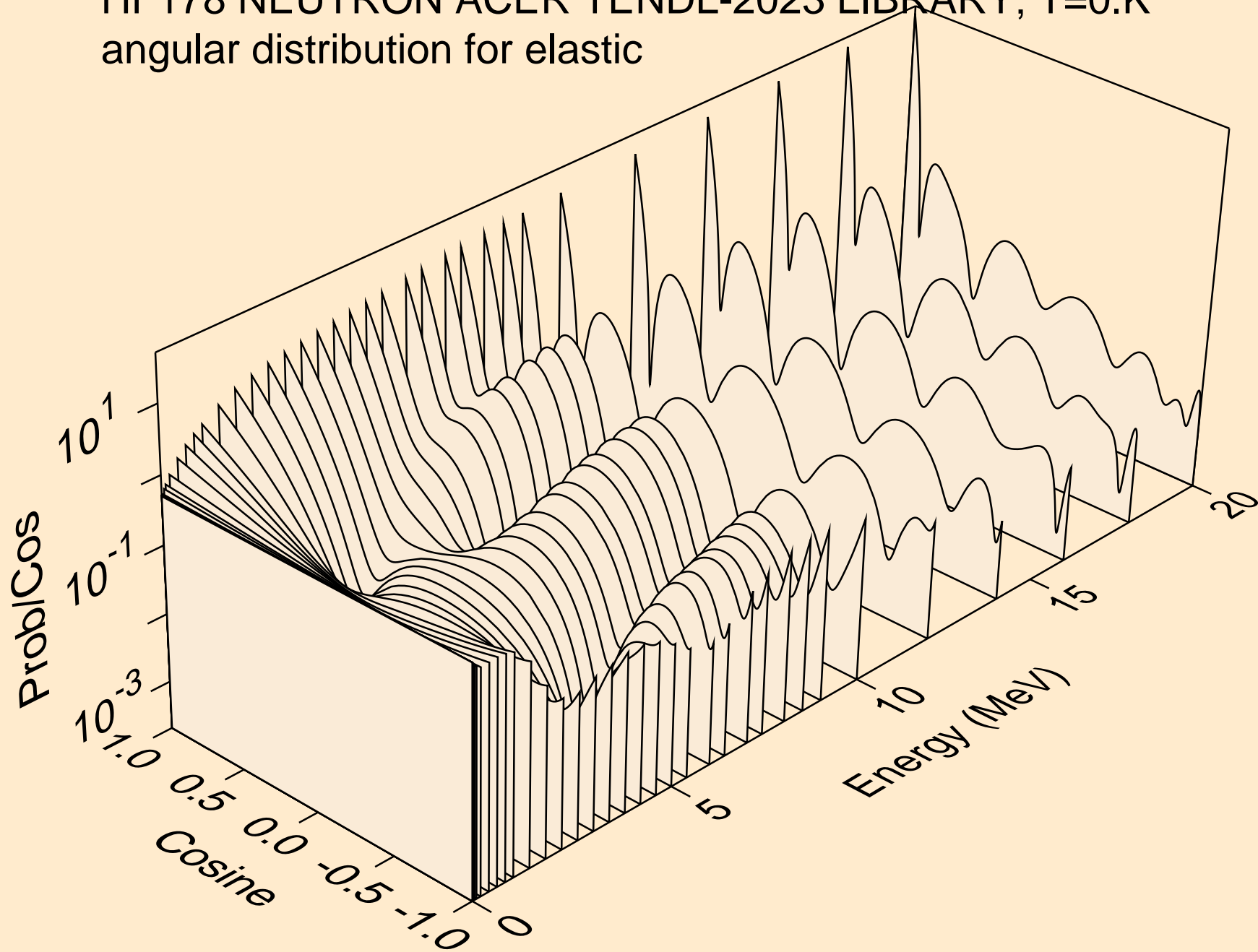


# HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

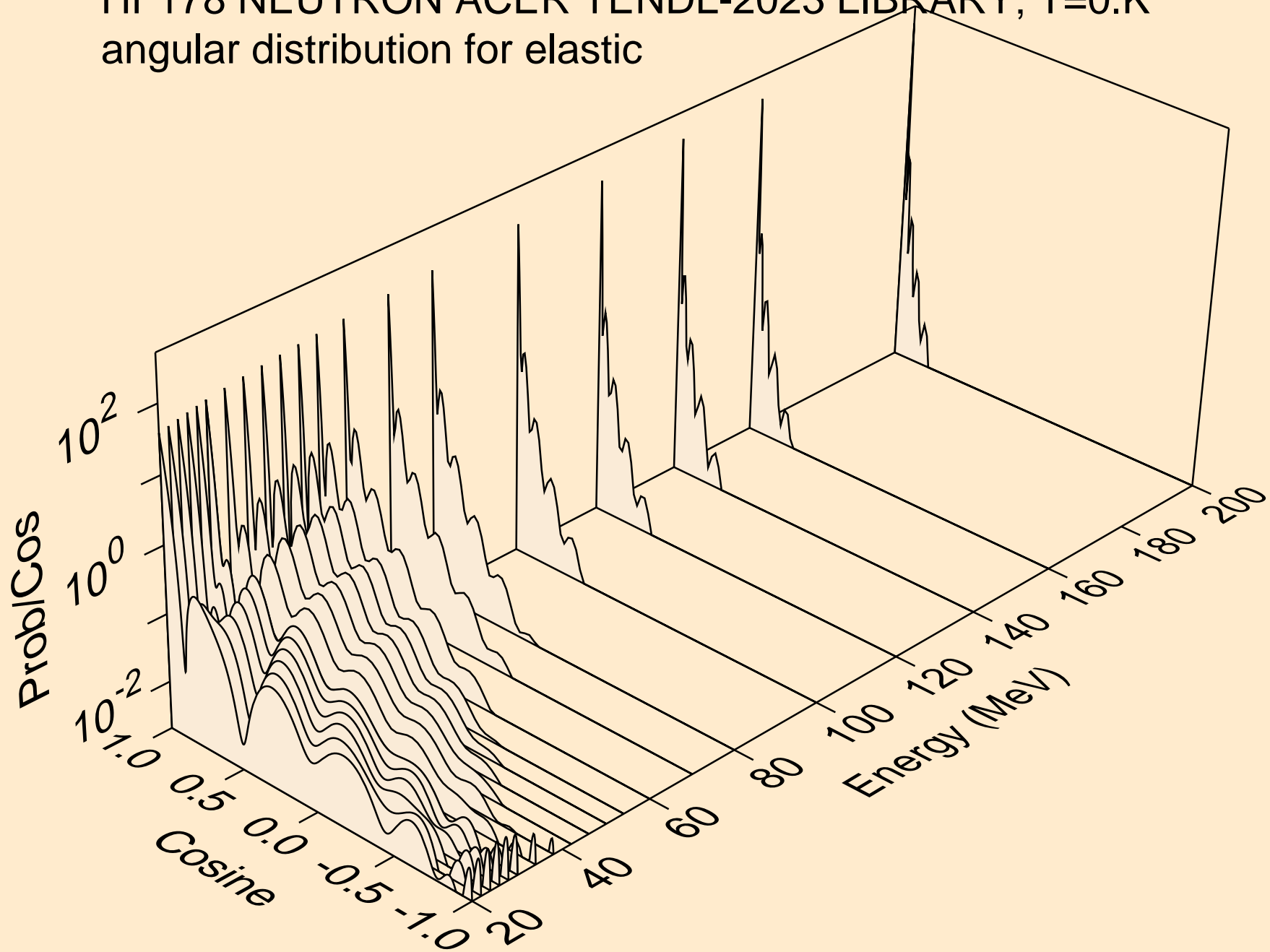
## Threshold reactions



HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic

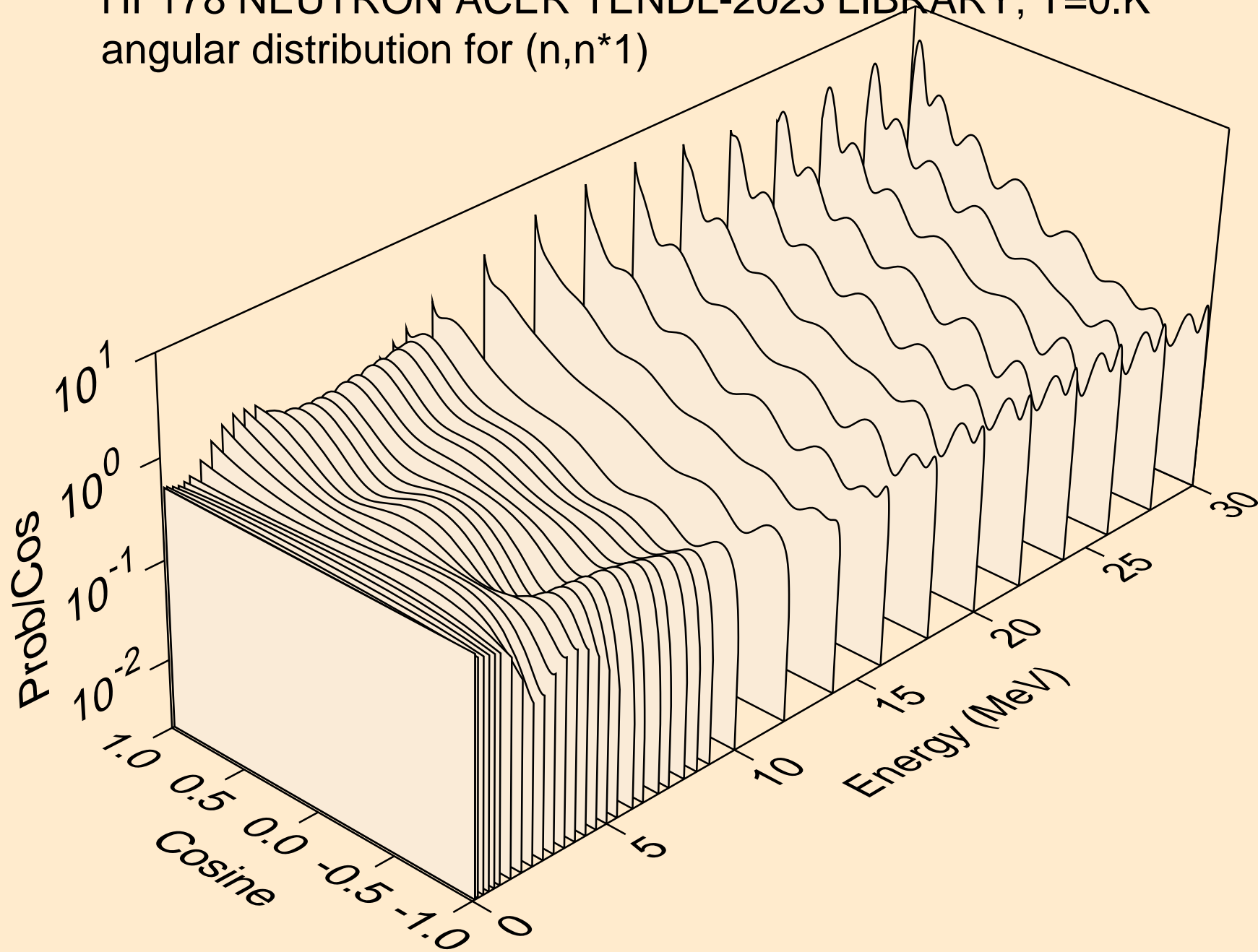


HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic

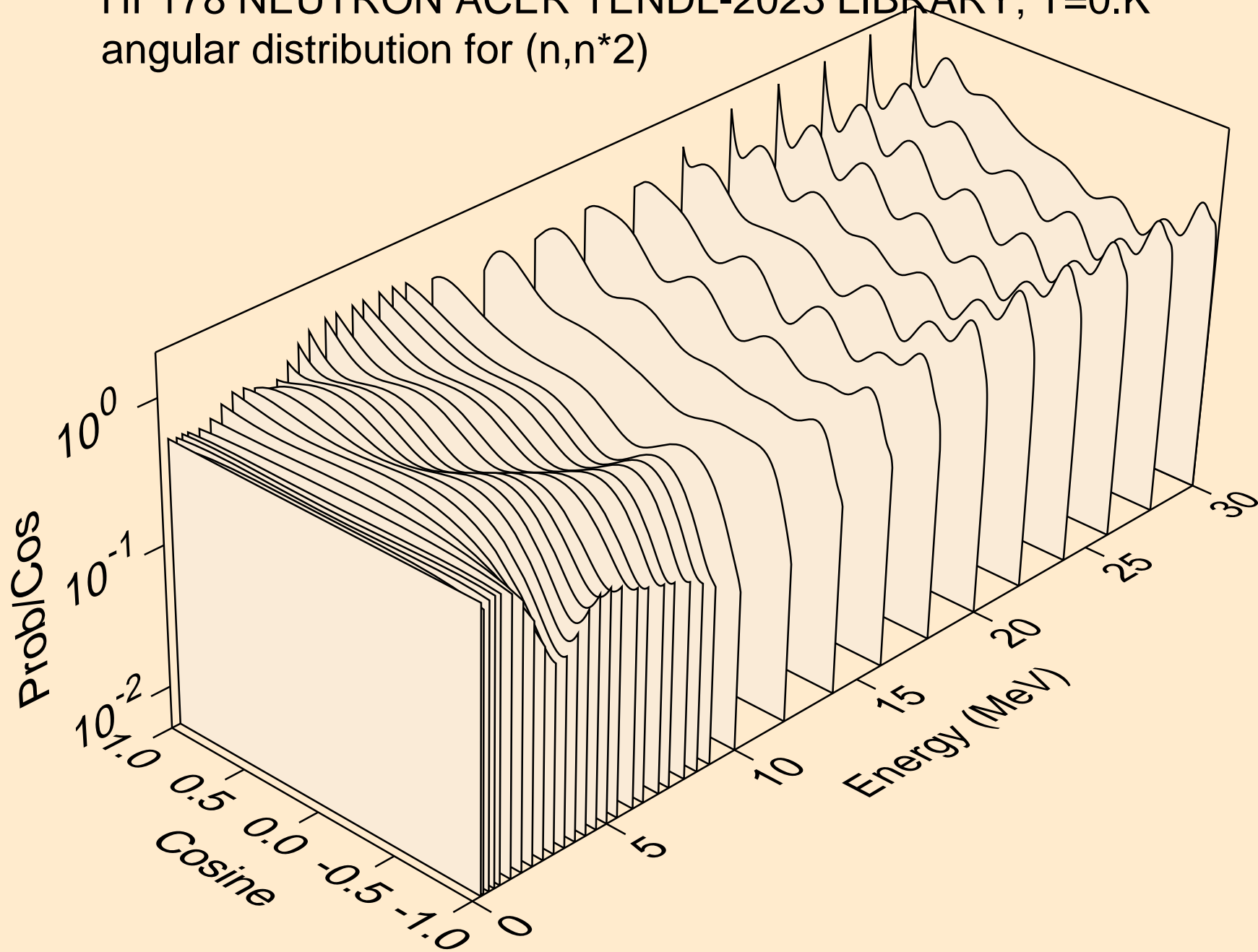




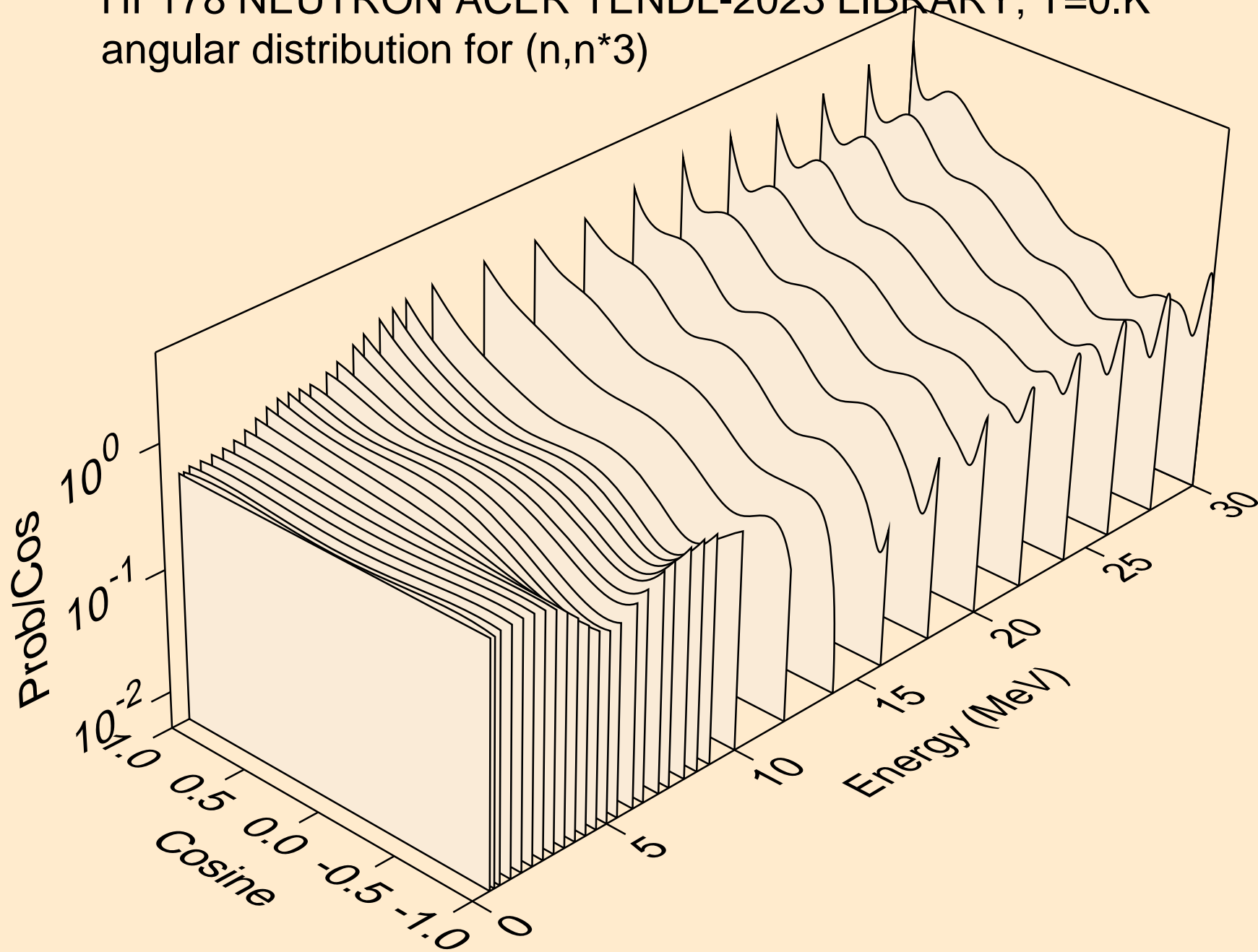
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*1)



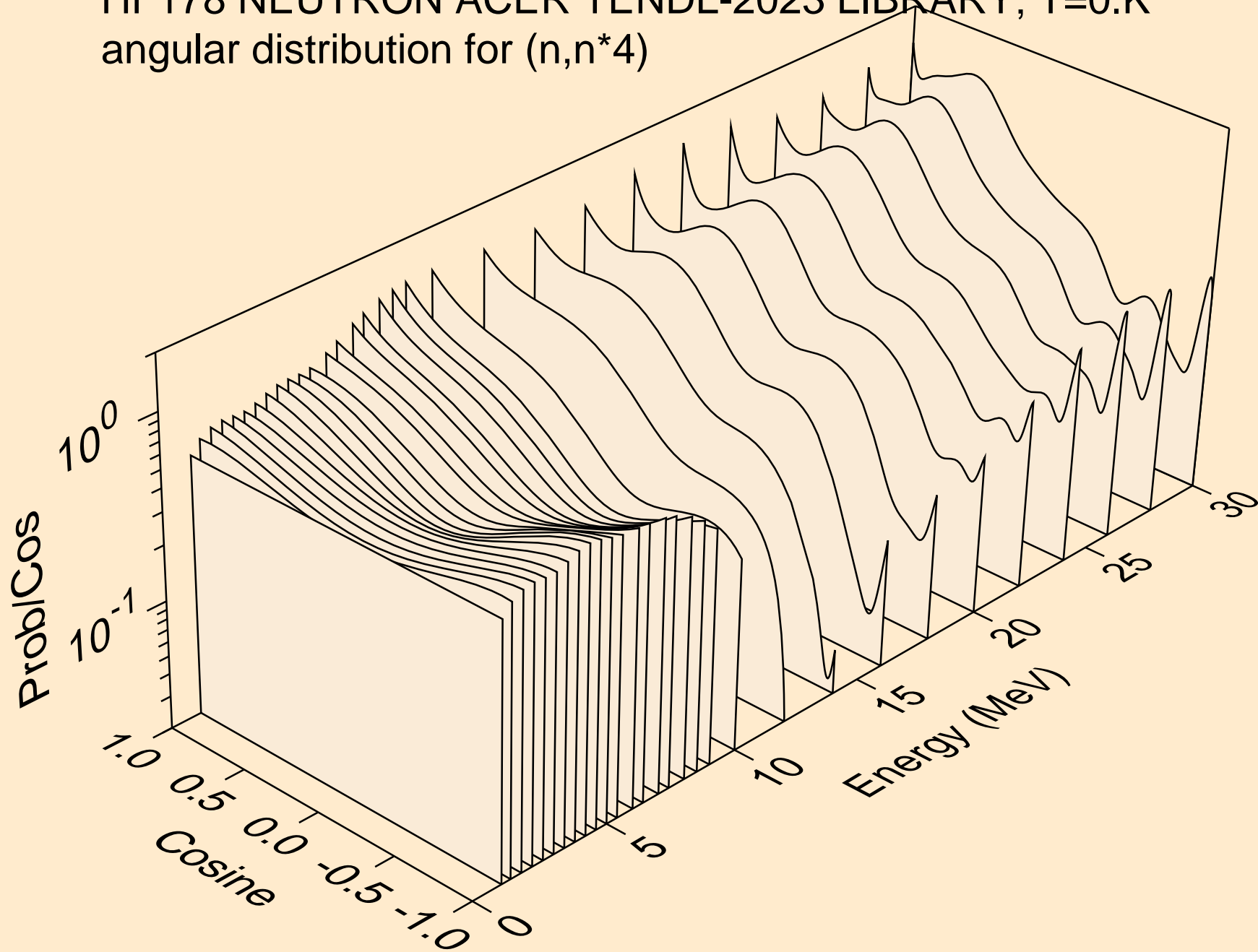
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*2)



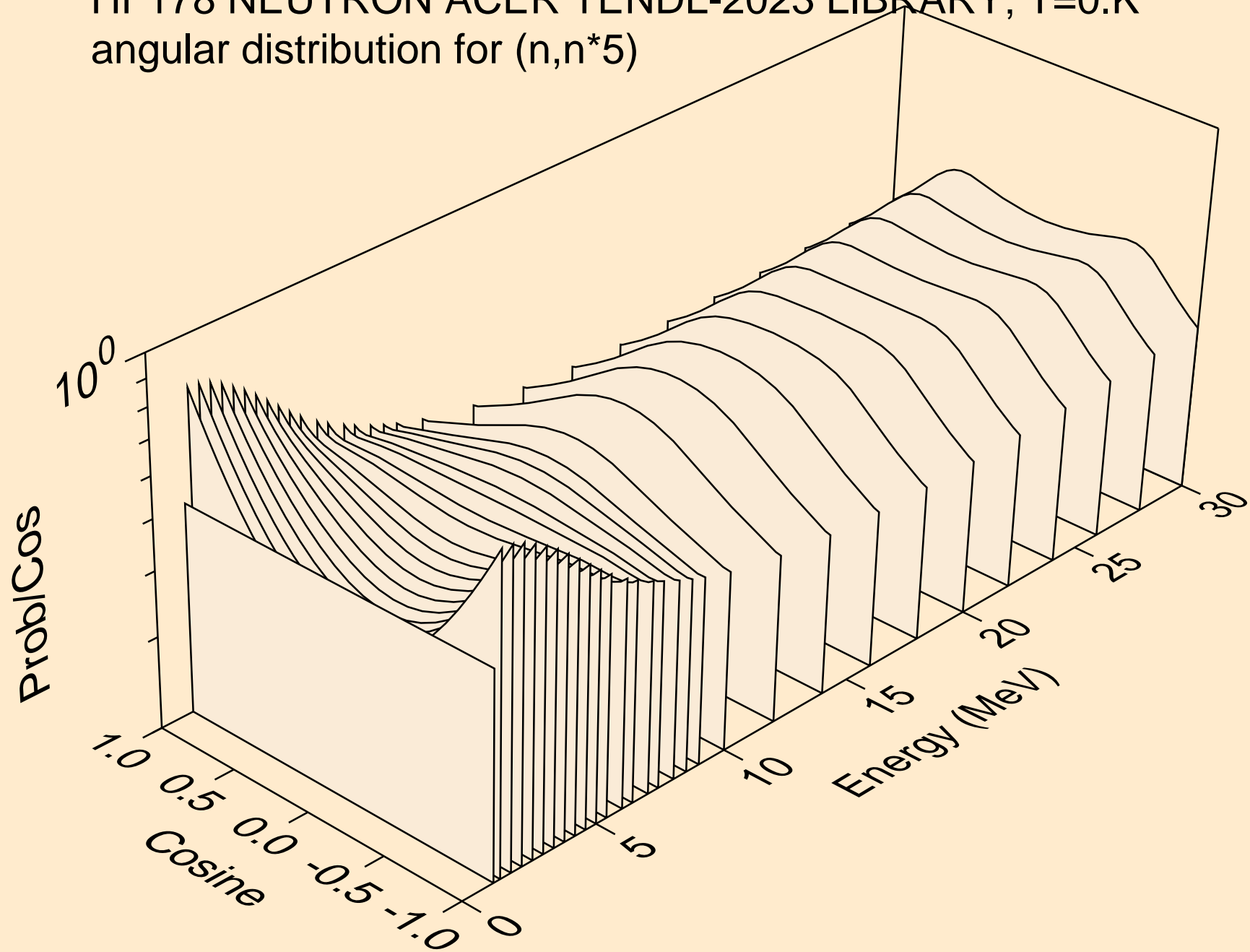
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*3)



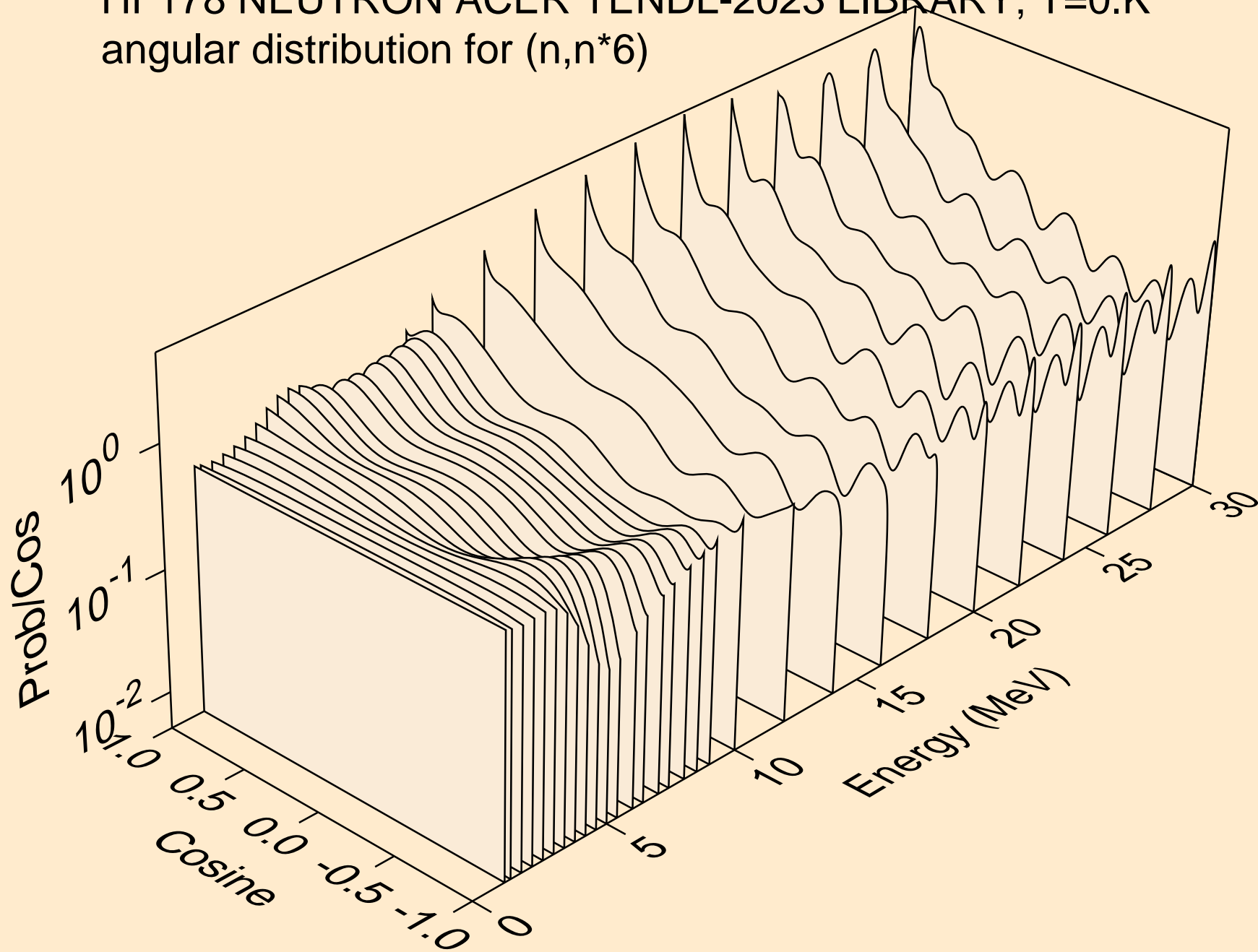
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*4)



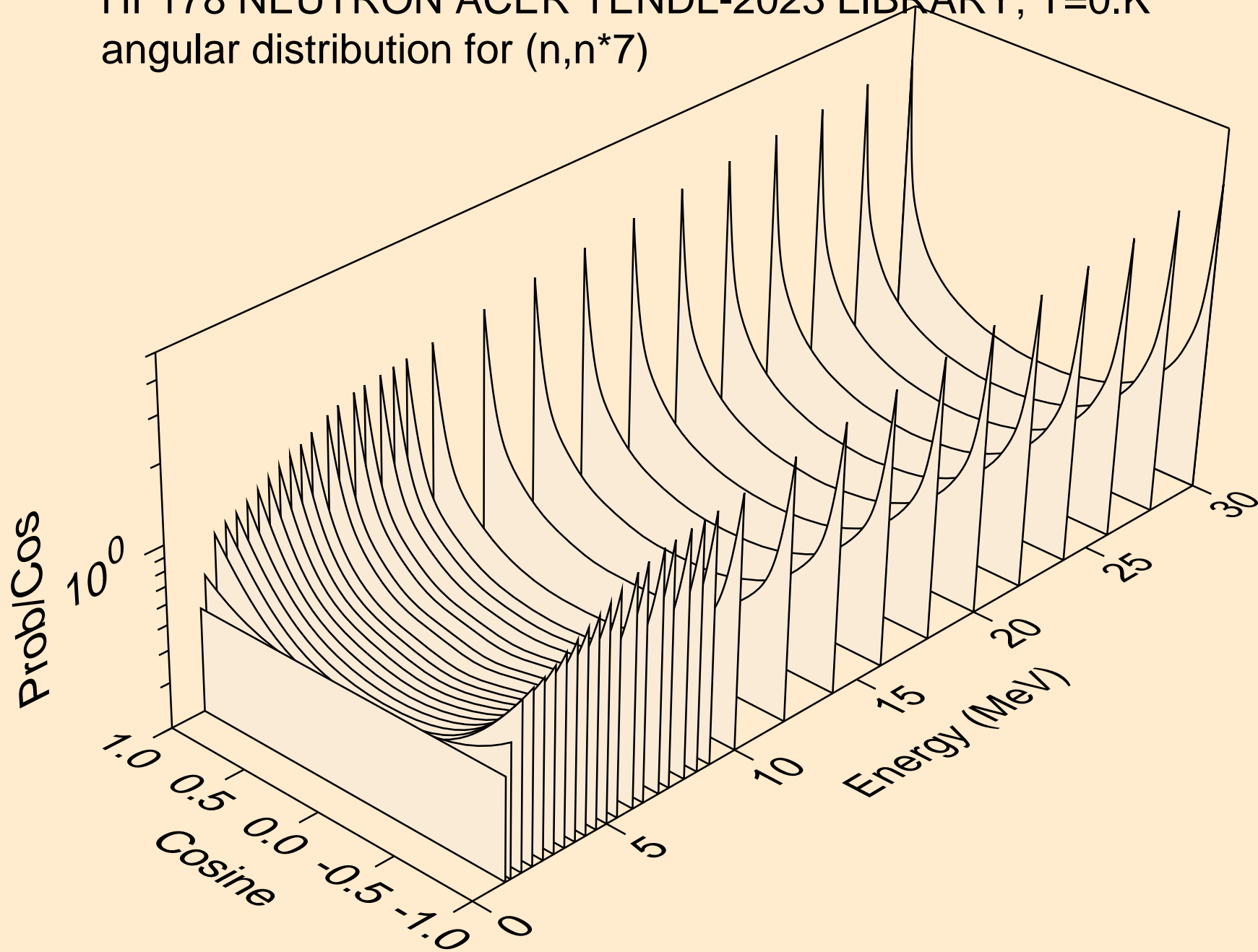
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*5)



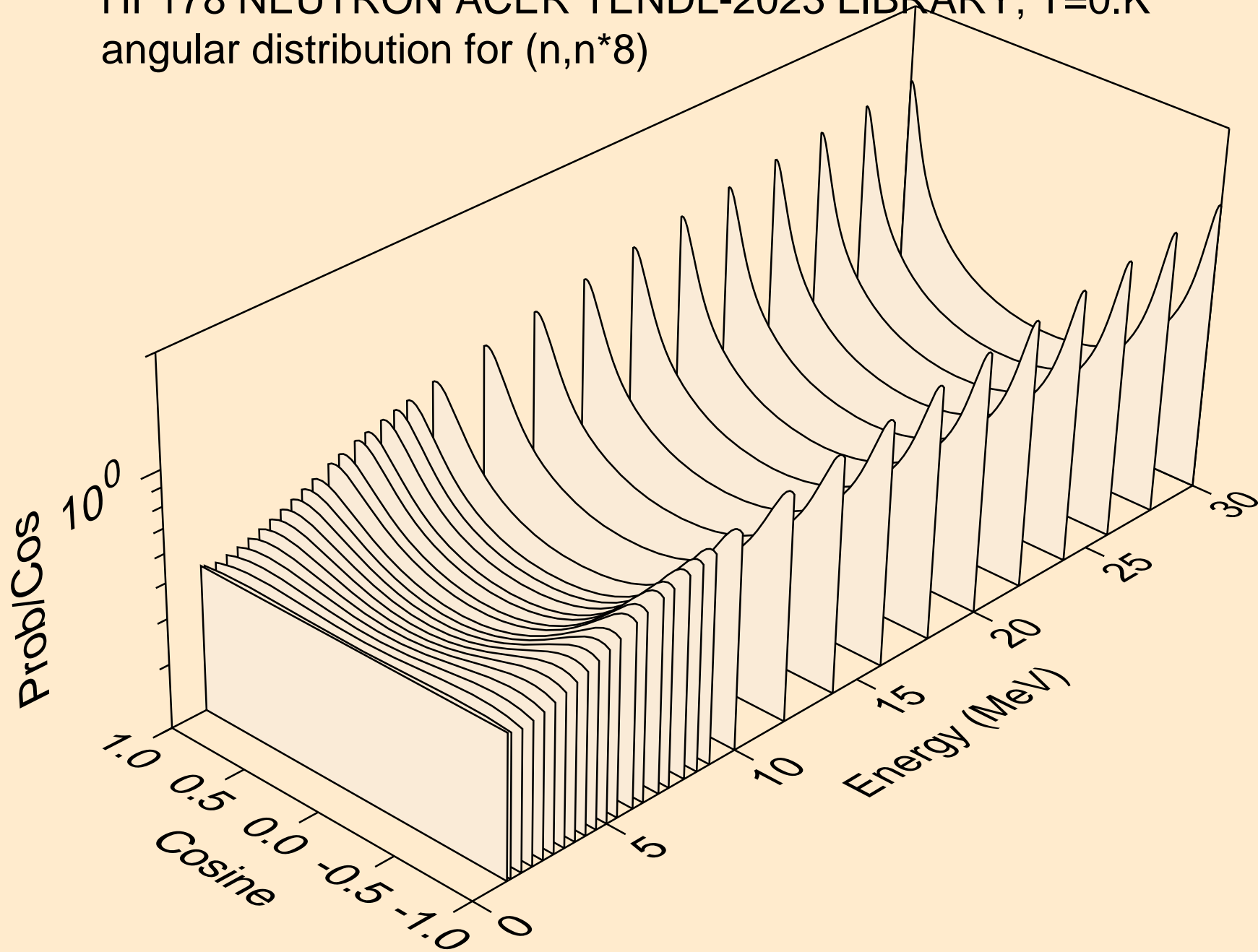
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*6)



HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*7)

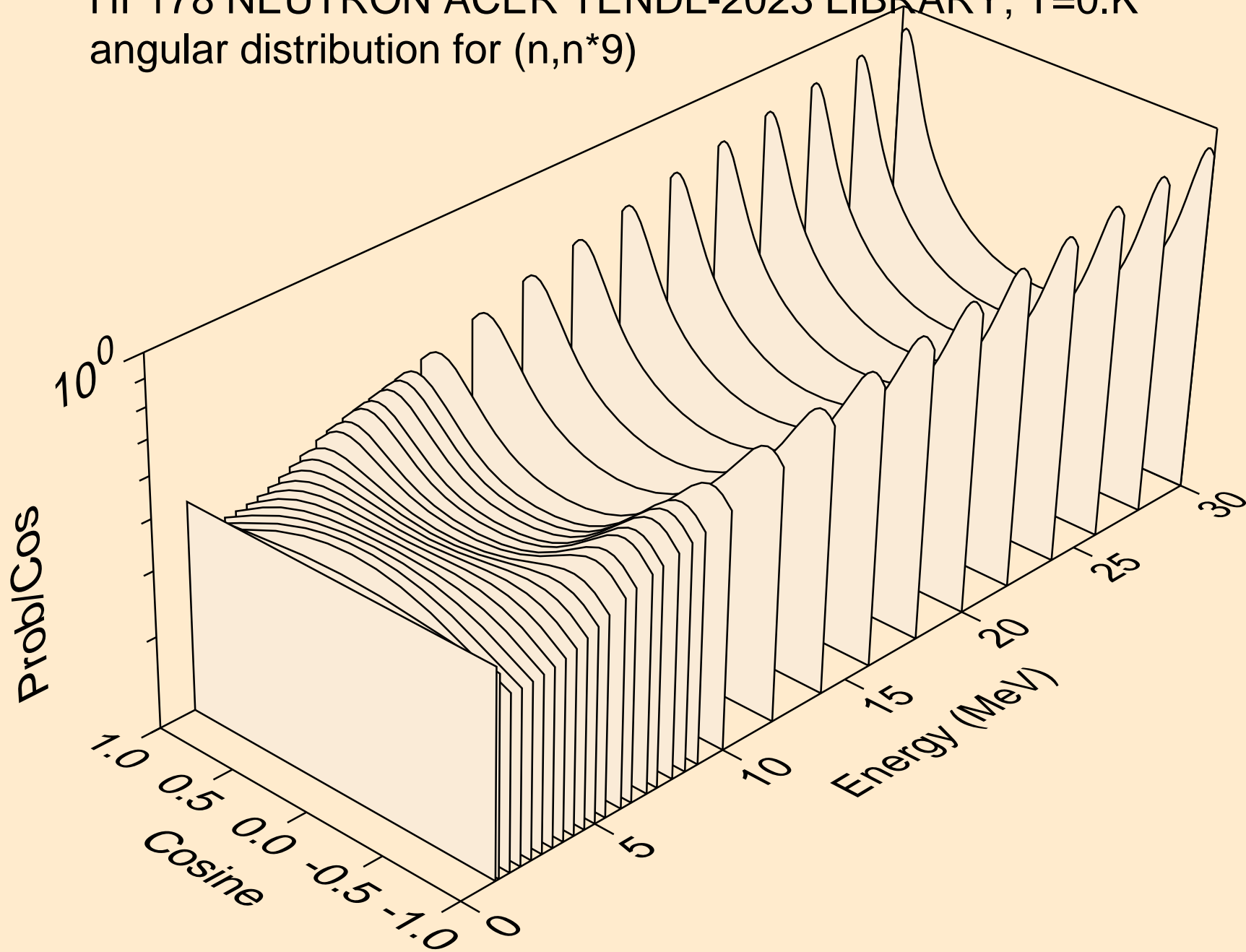


HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*8)

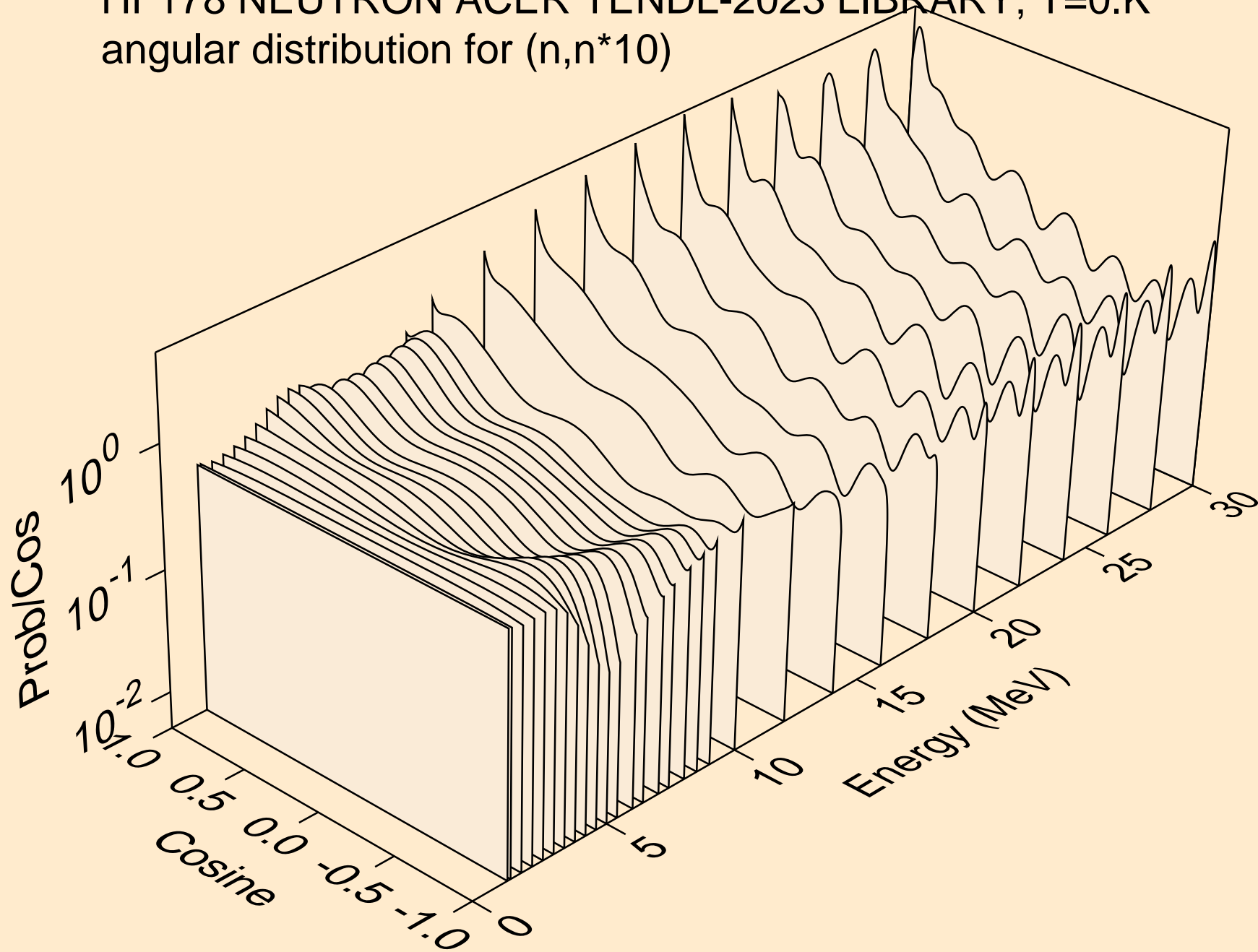




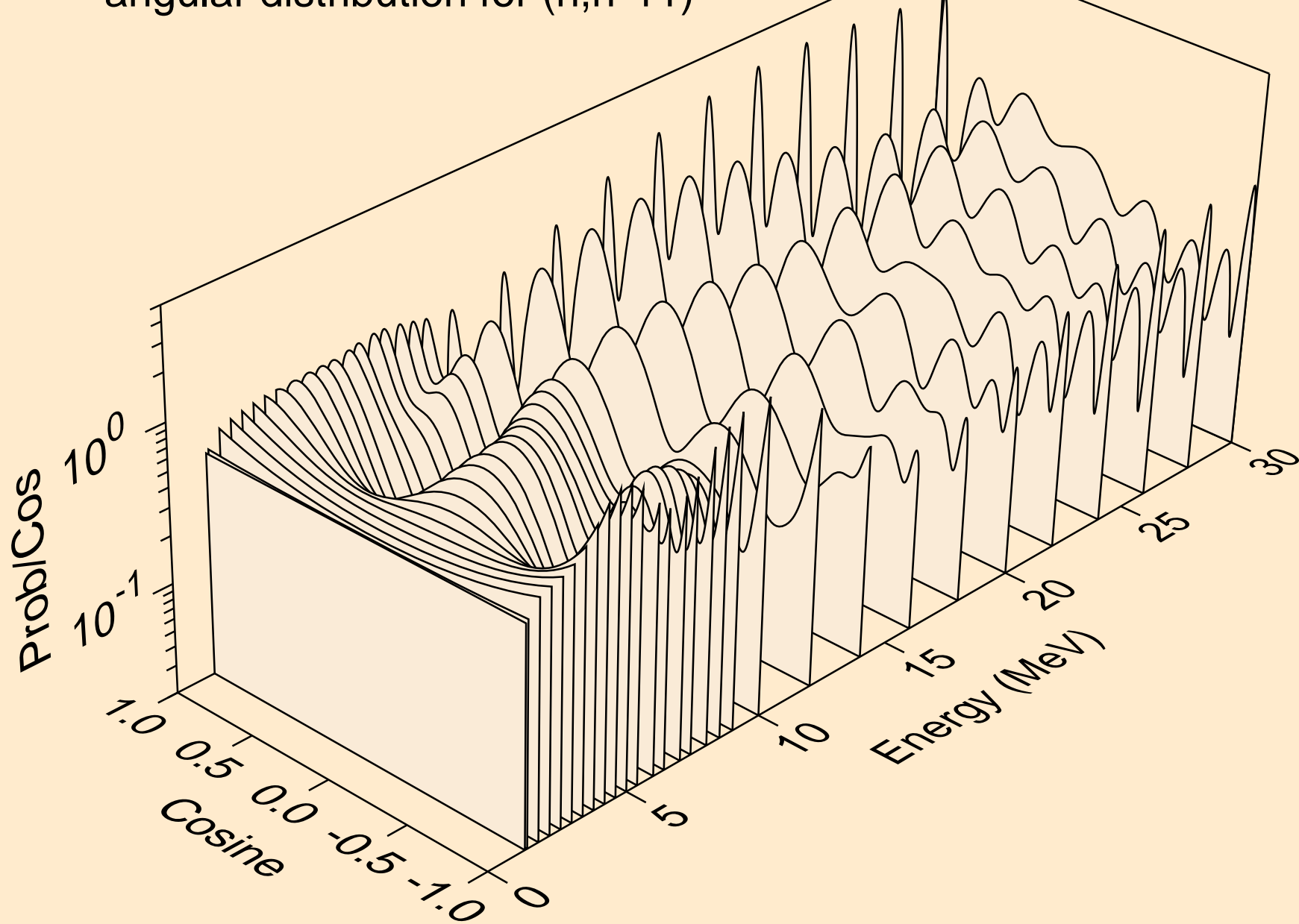
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*9)



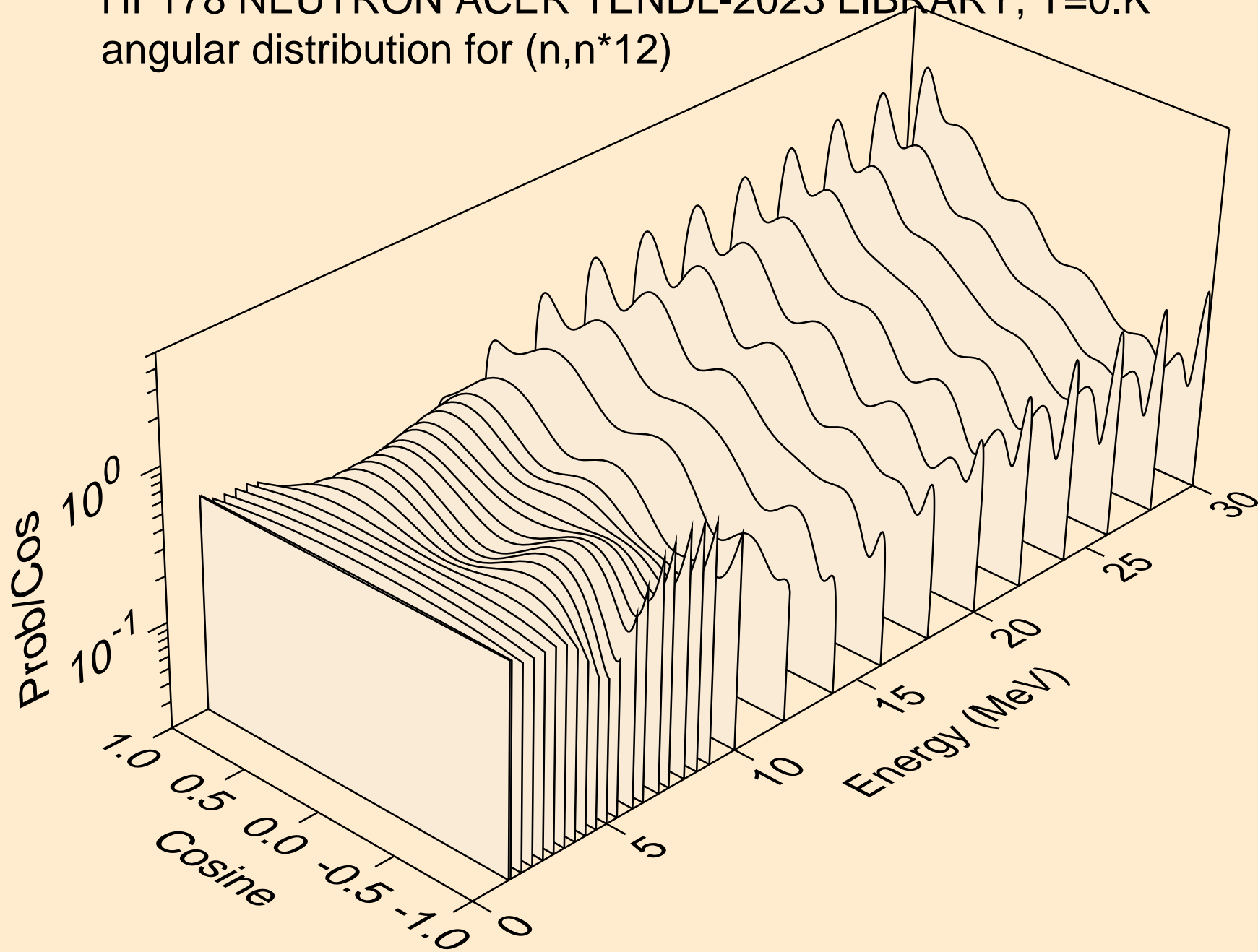
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*10)



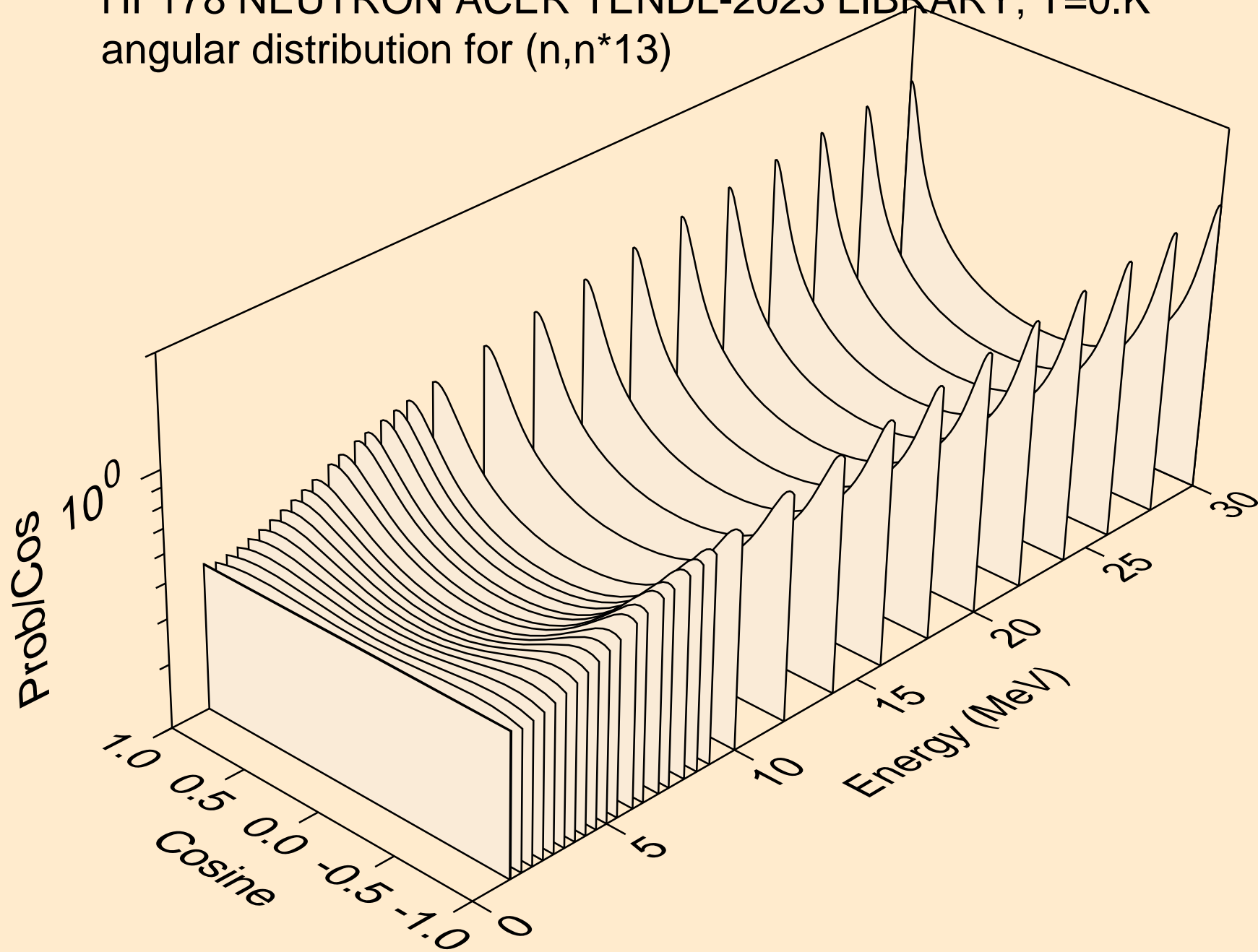
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*11)



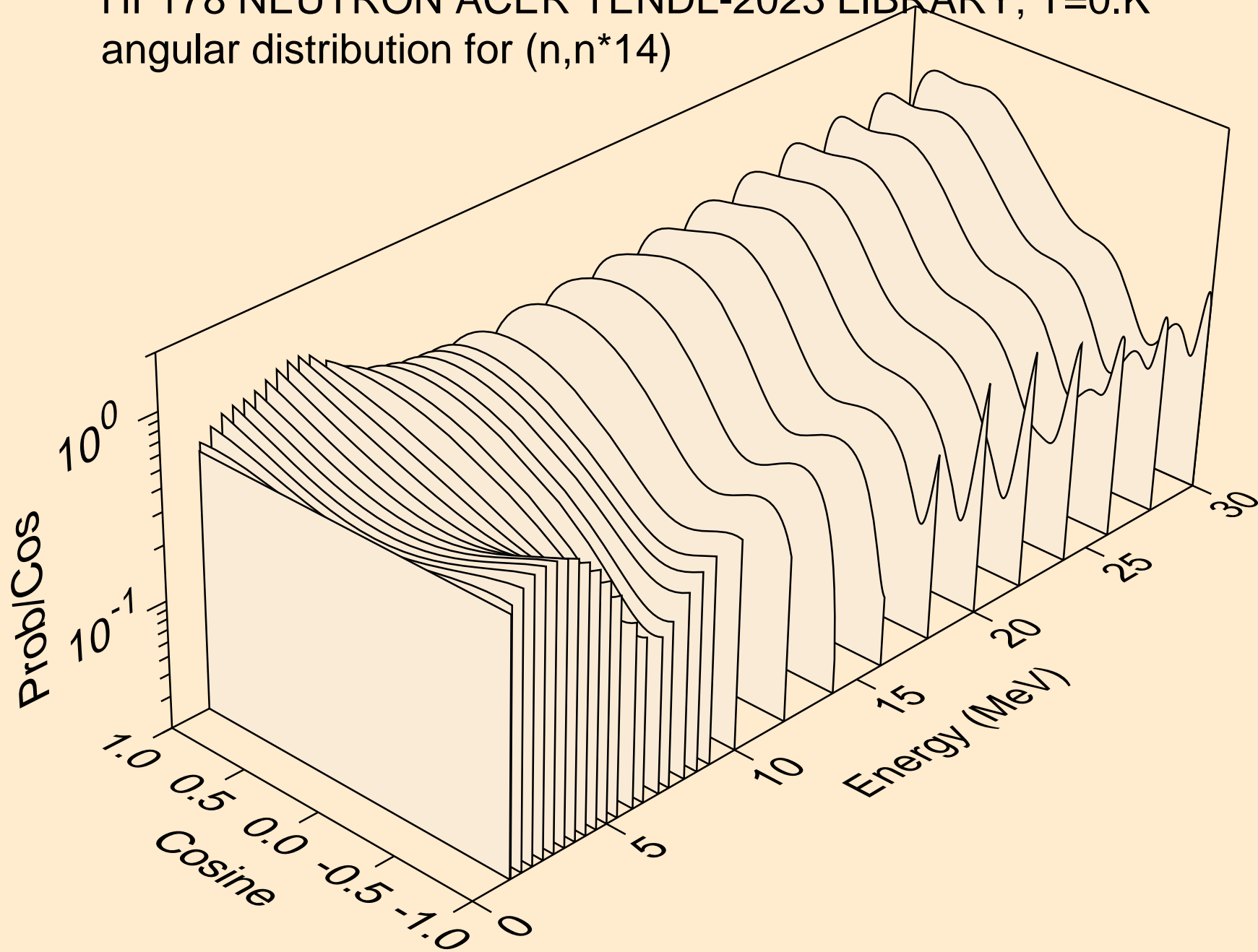
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*12)



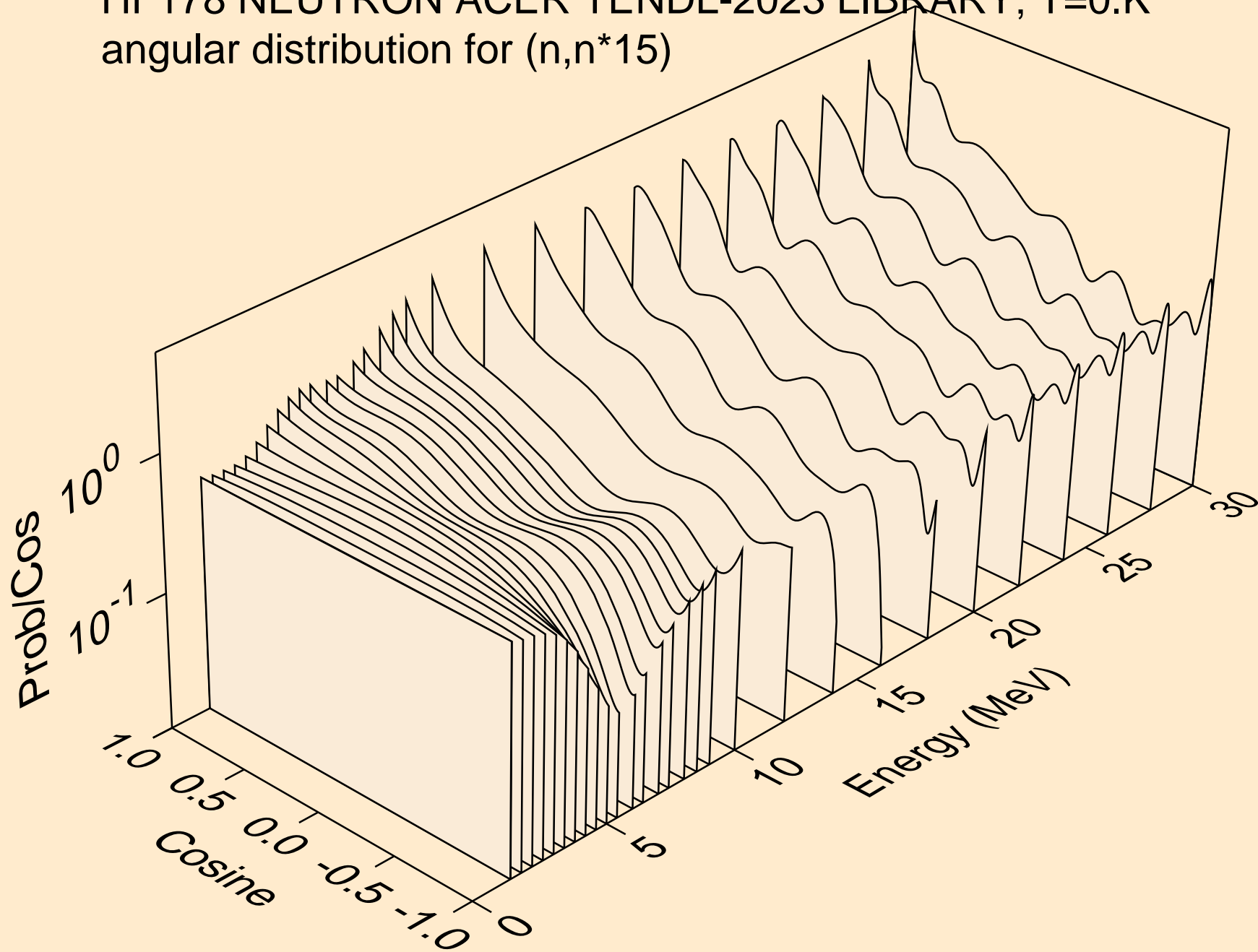
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*13)



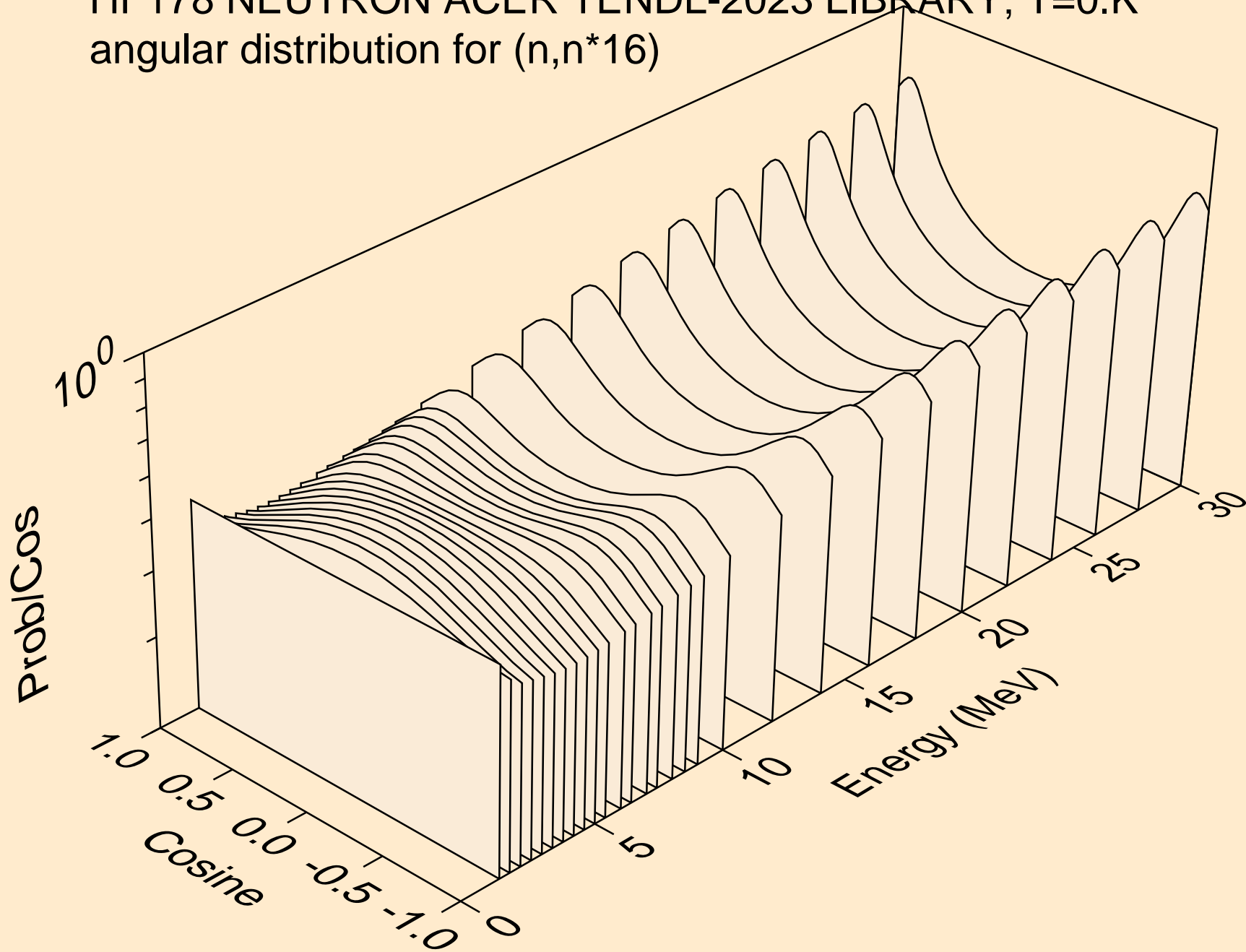
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*14)



HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*15)

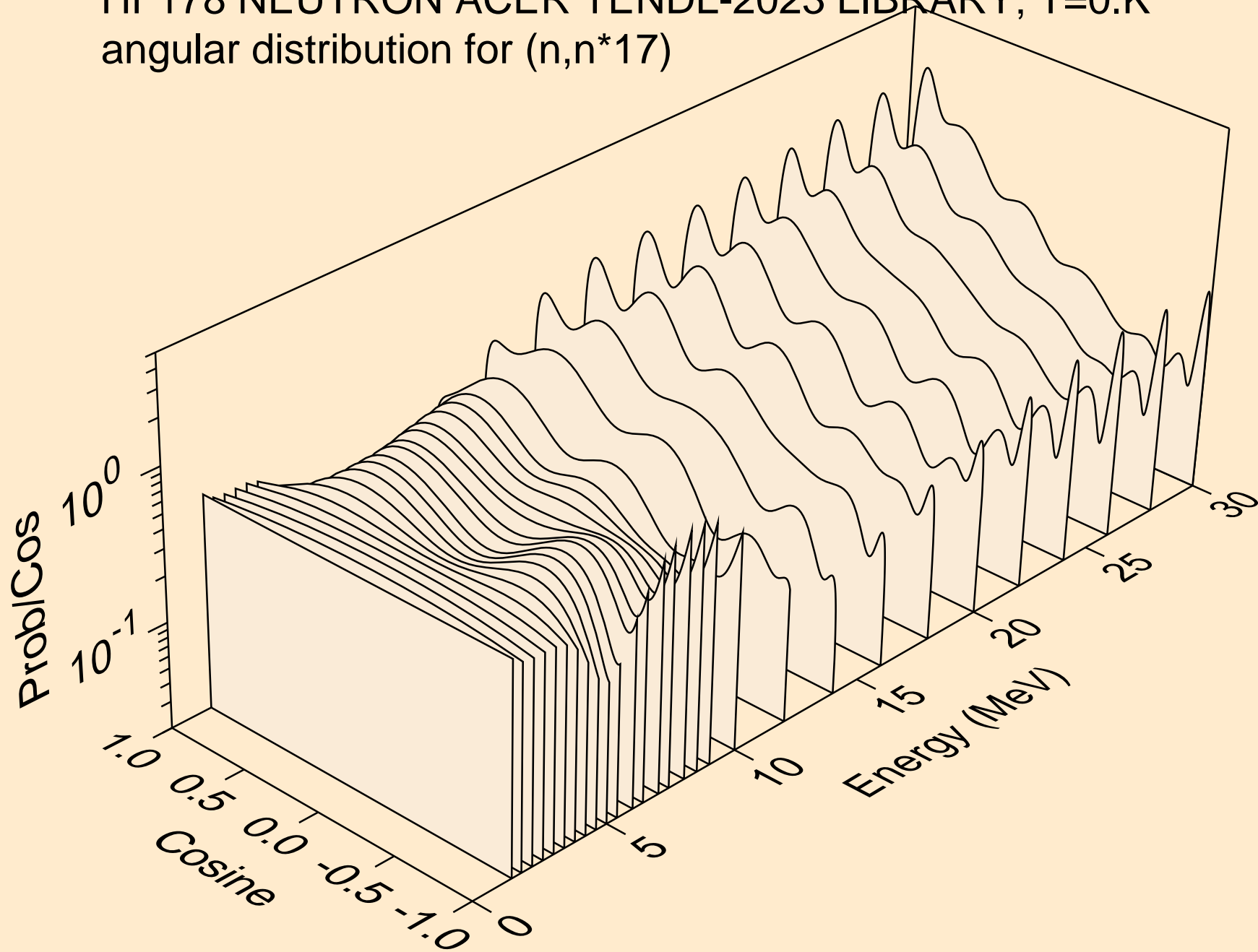


HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*16)

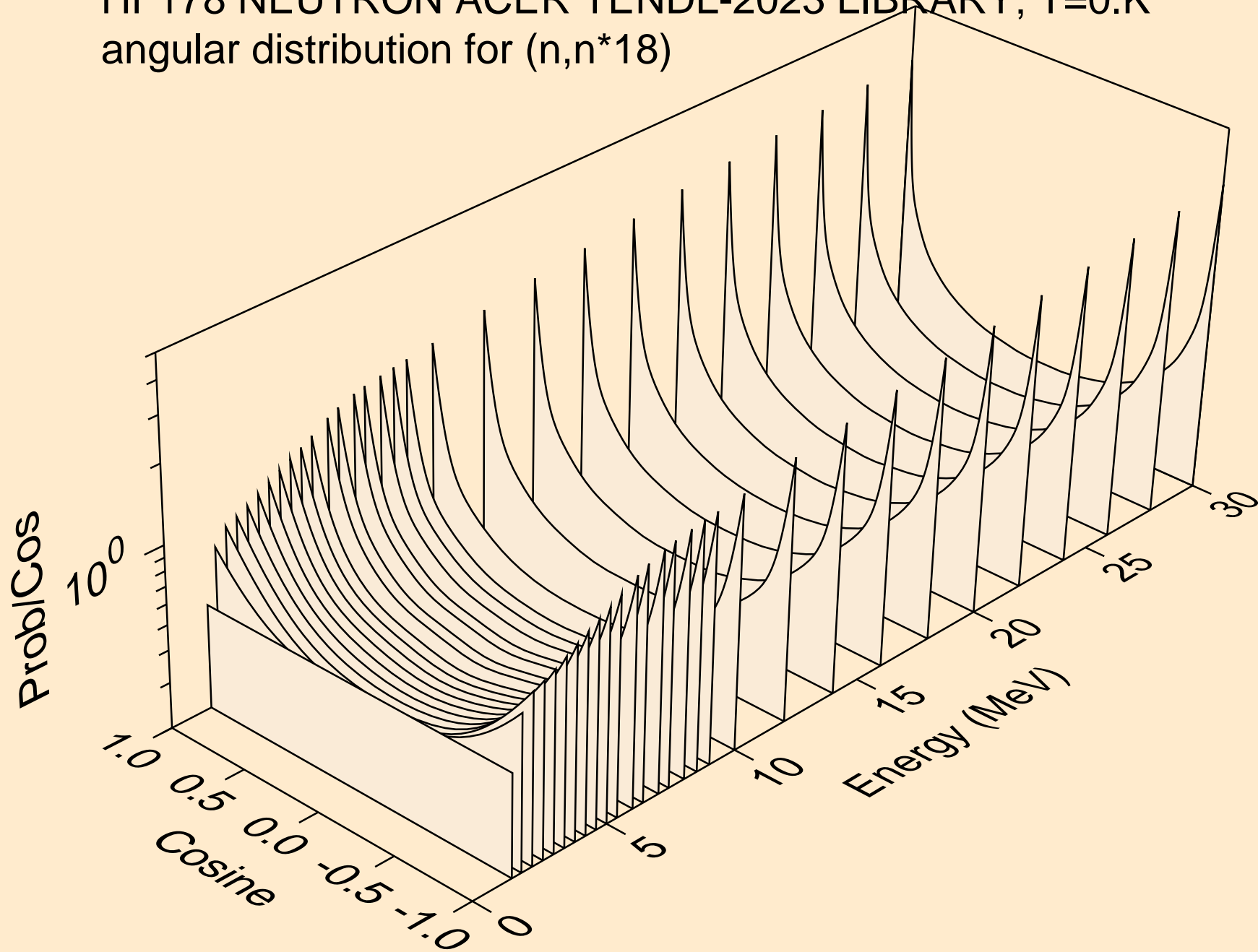




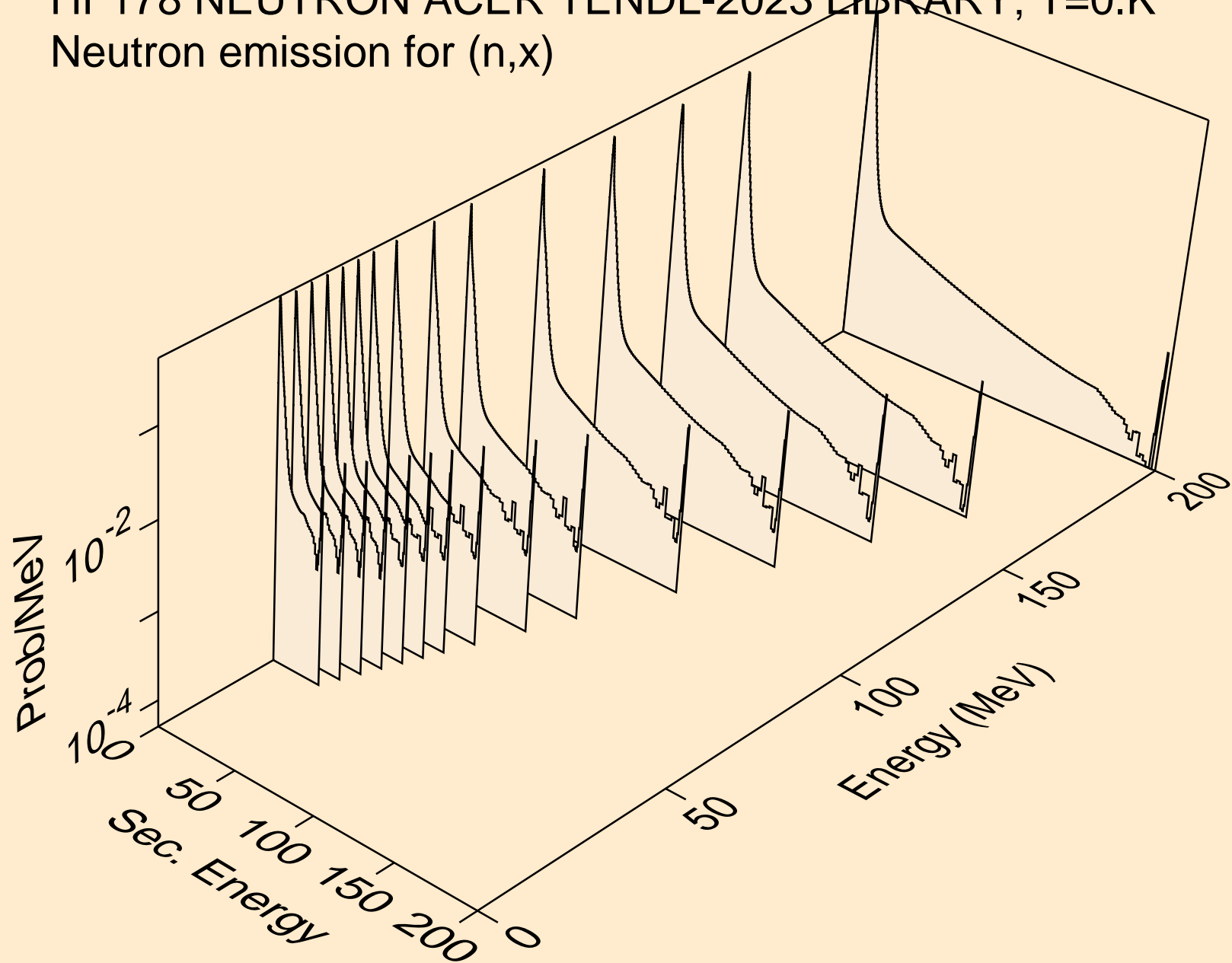
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*17)



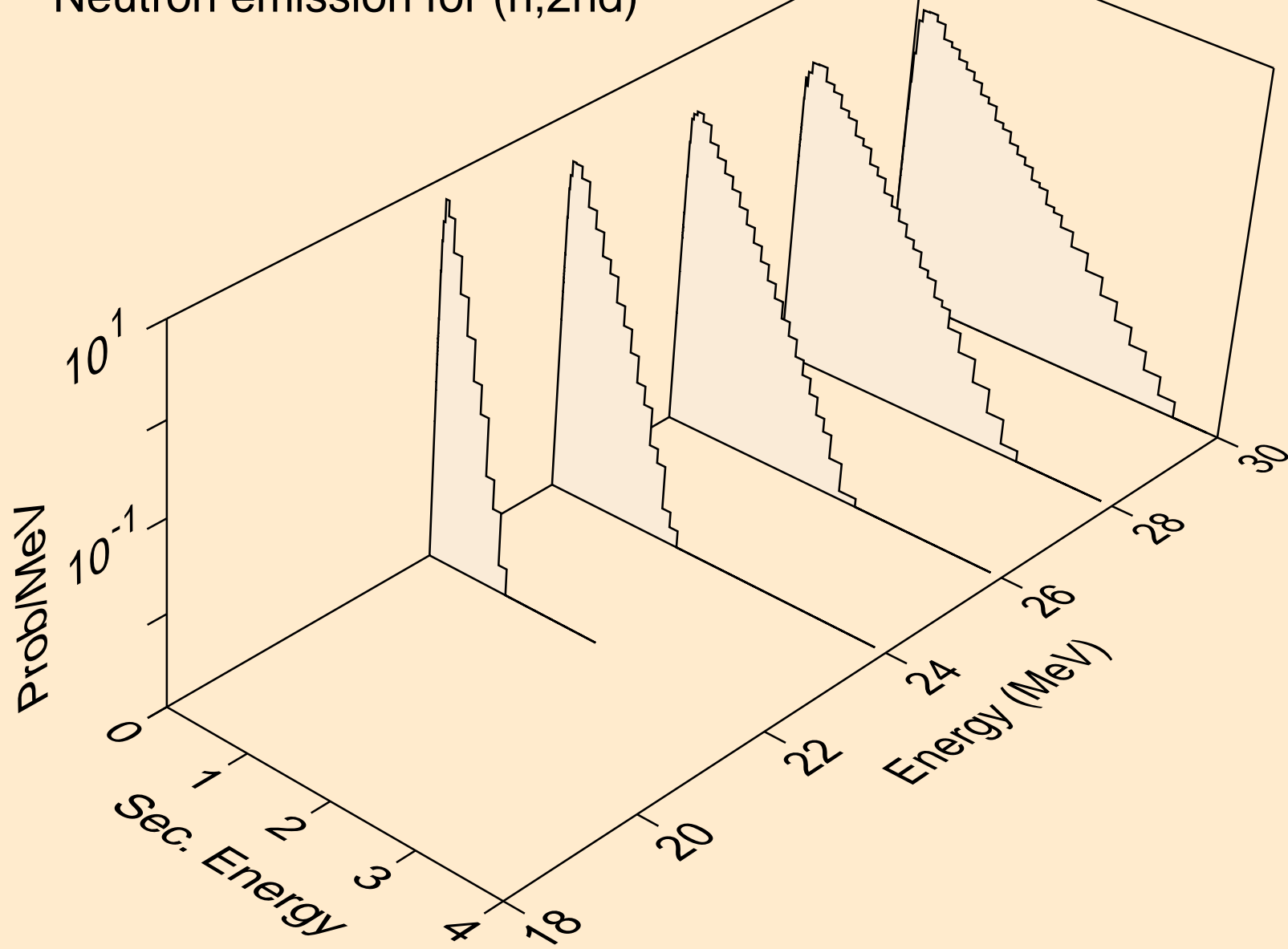
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*18)



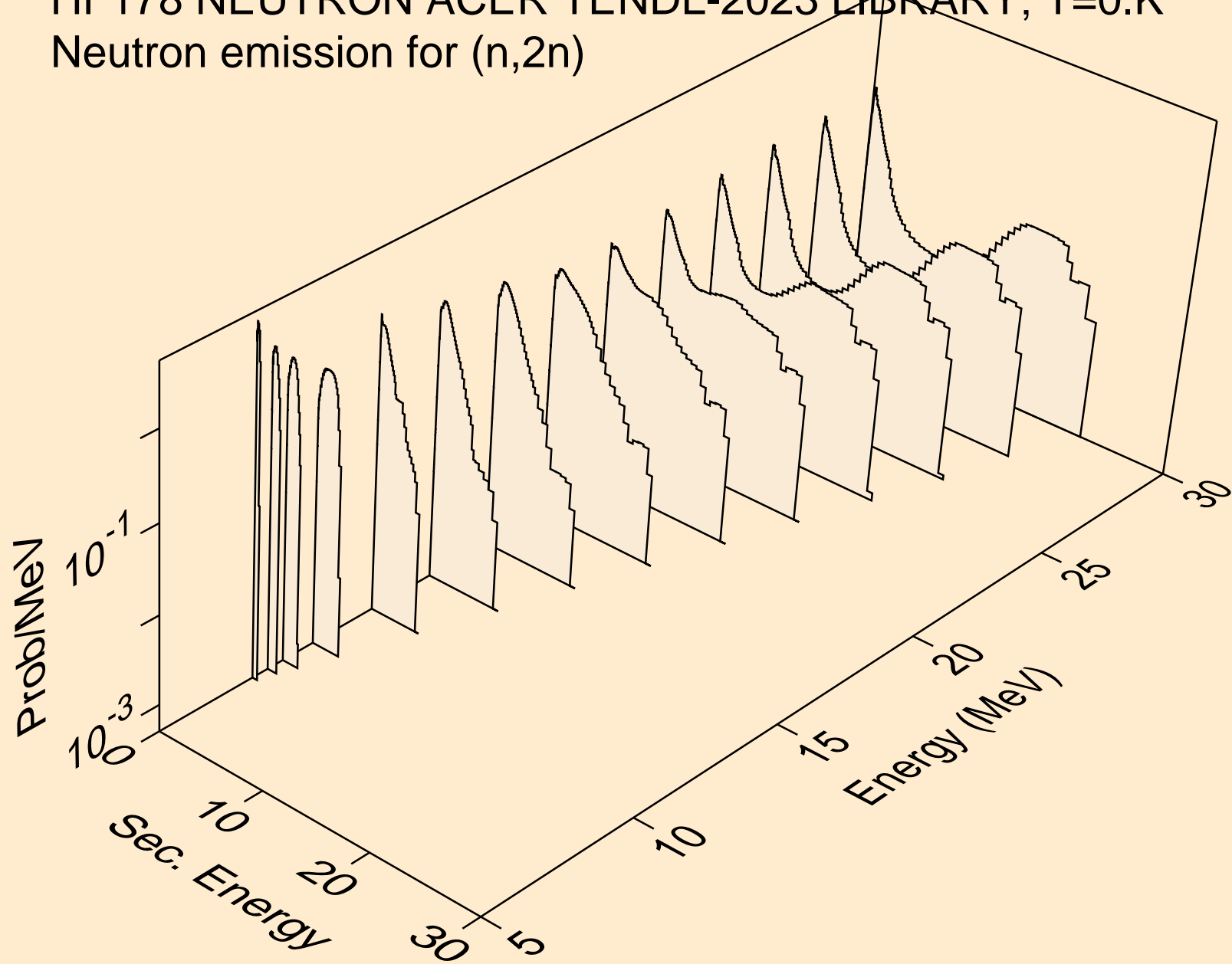
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,x)



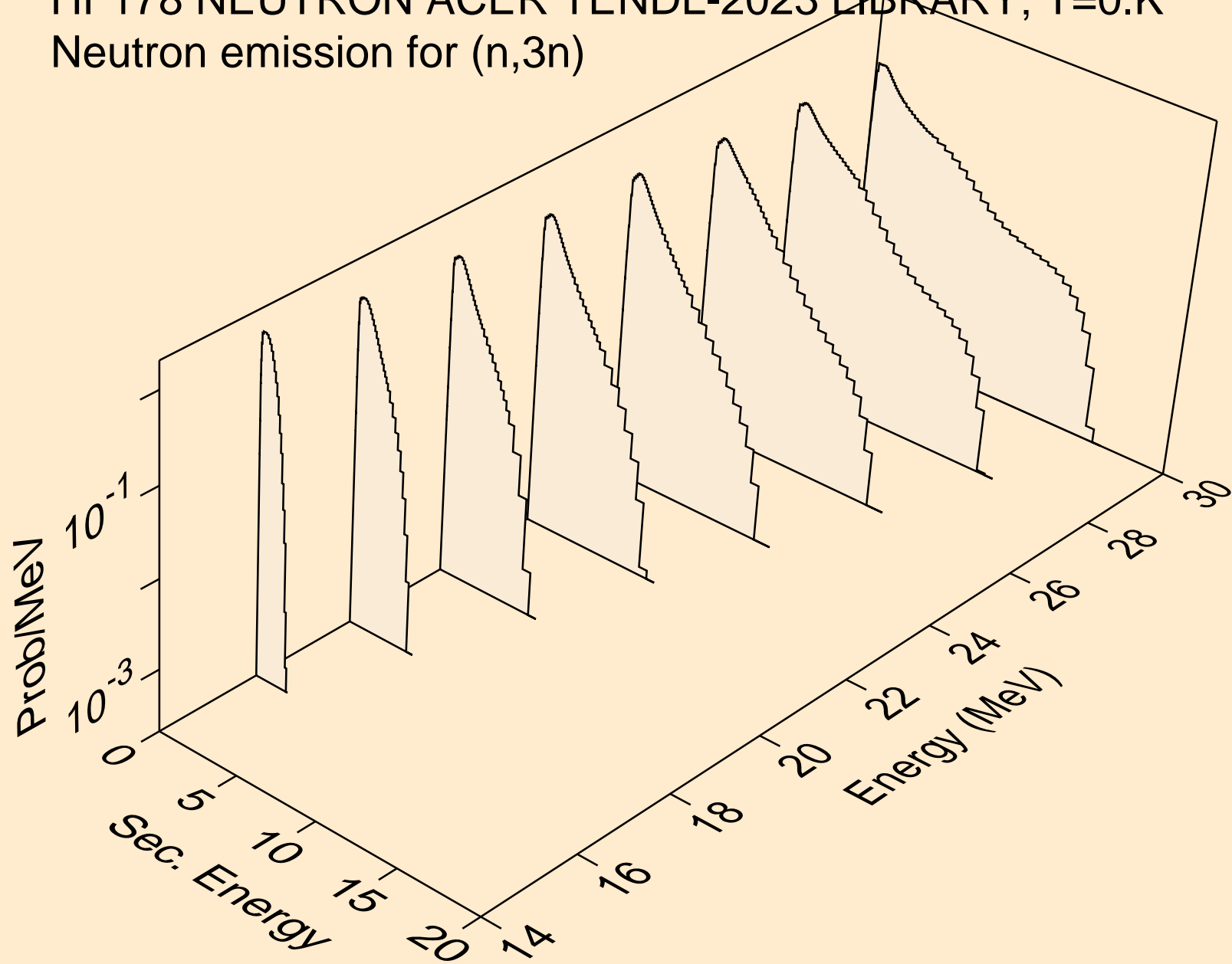
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2nd)



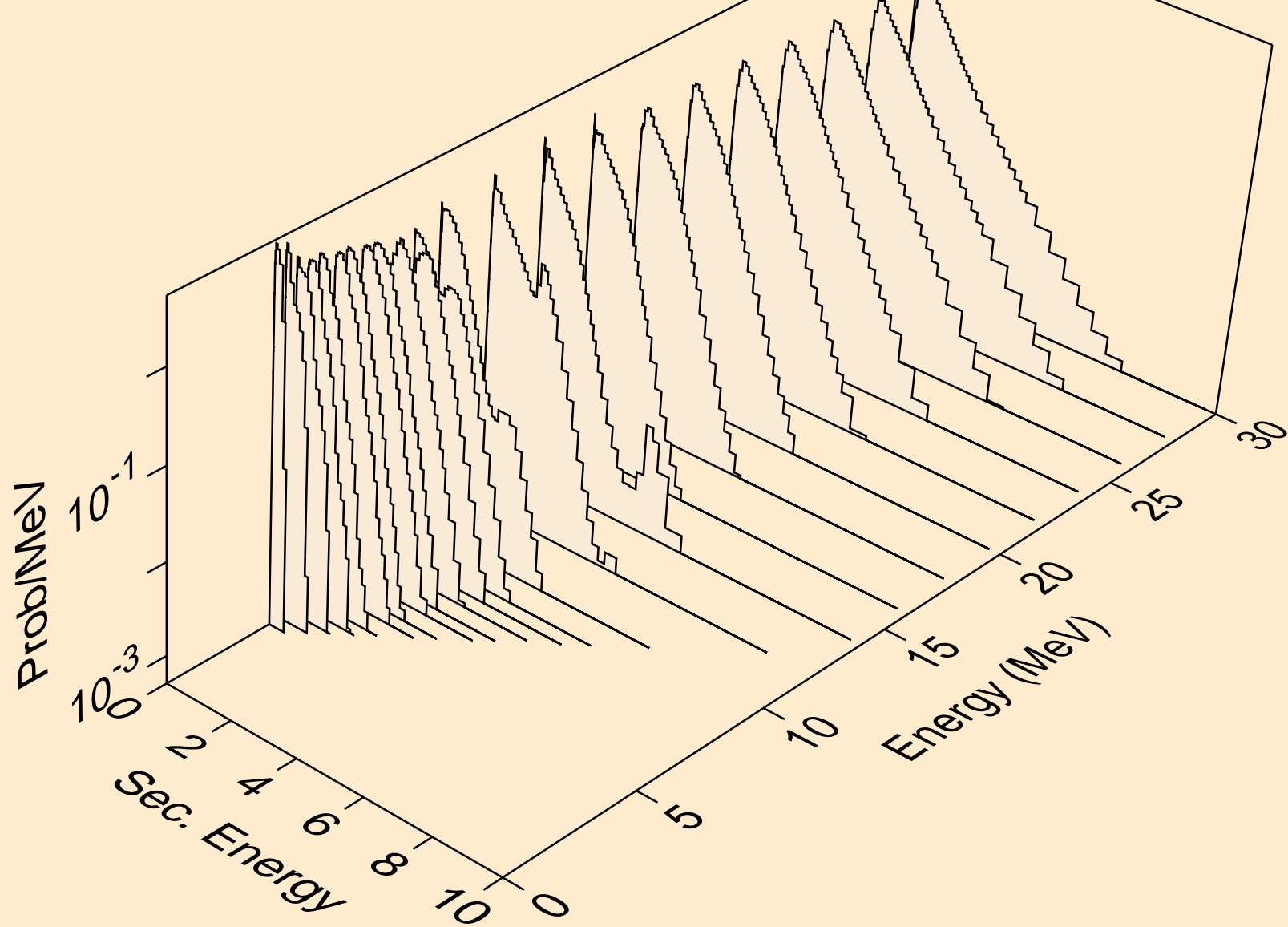
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)



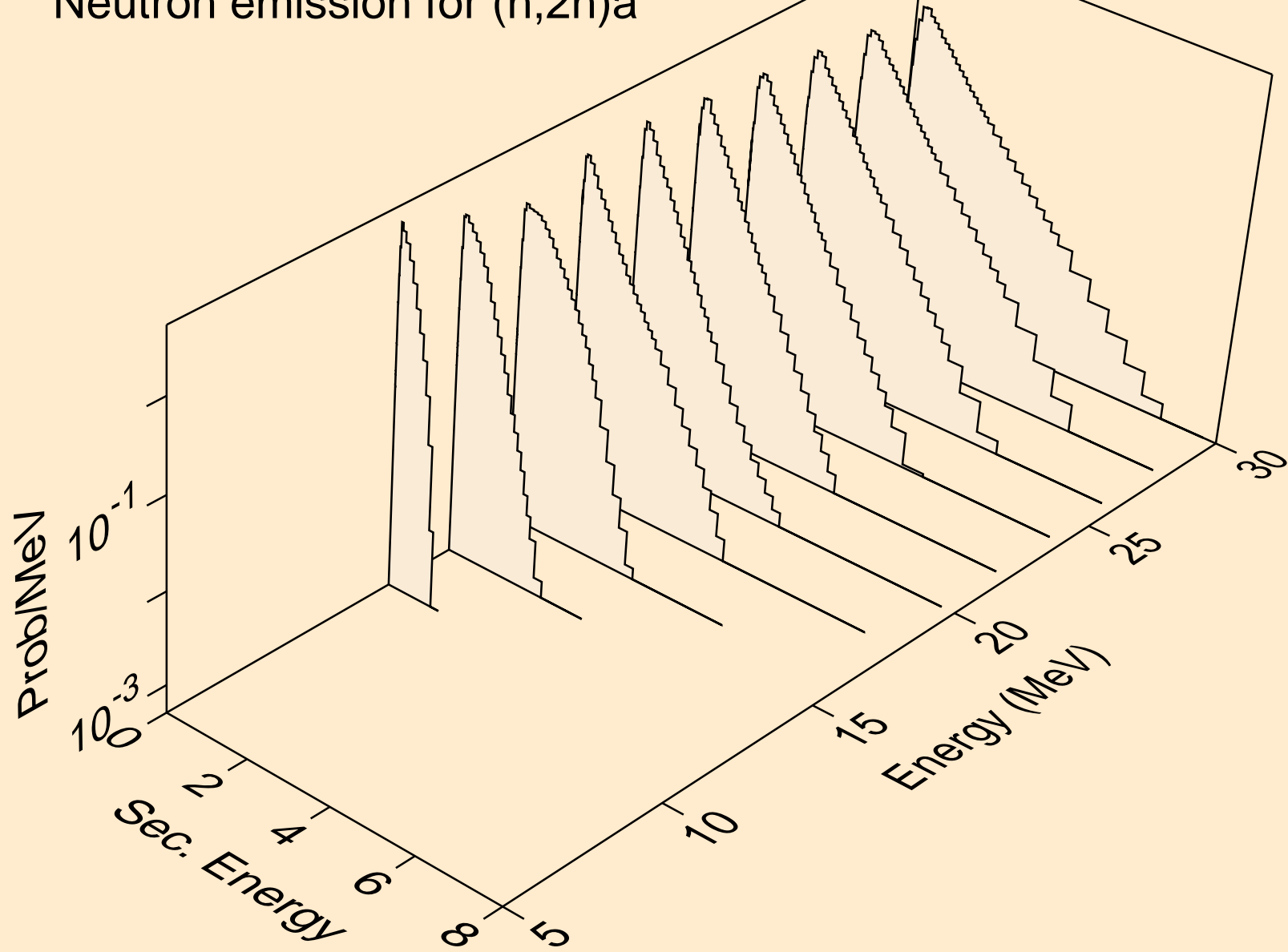
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)



HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a

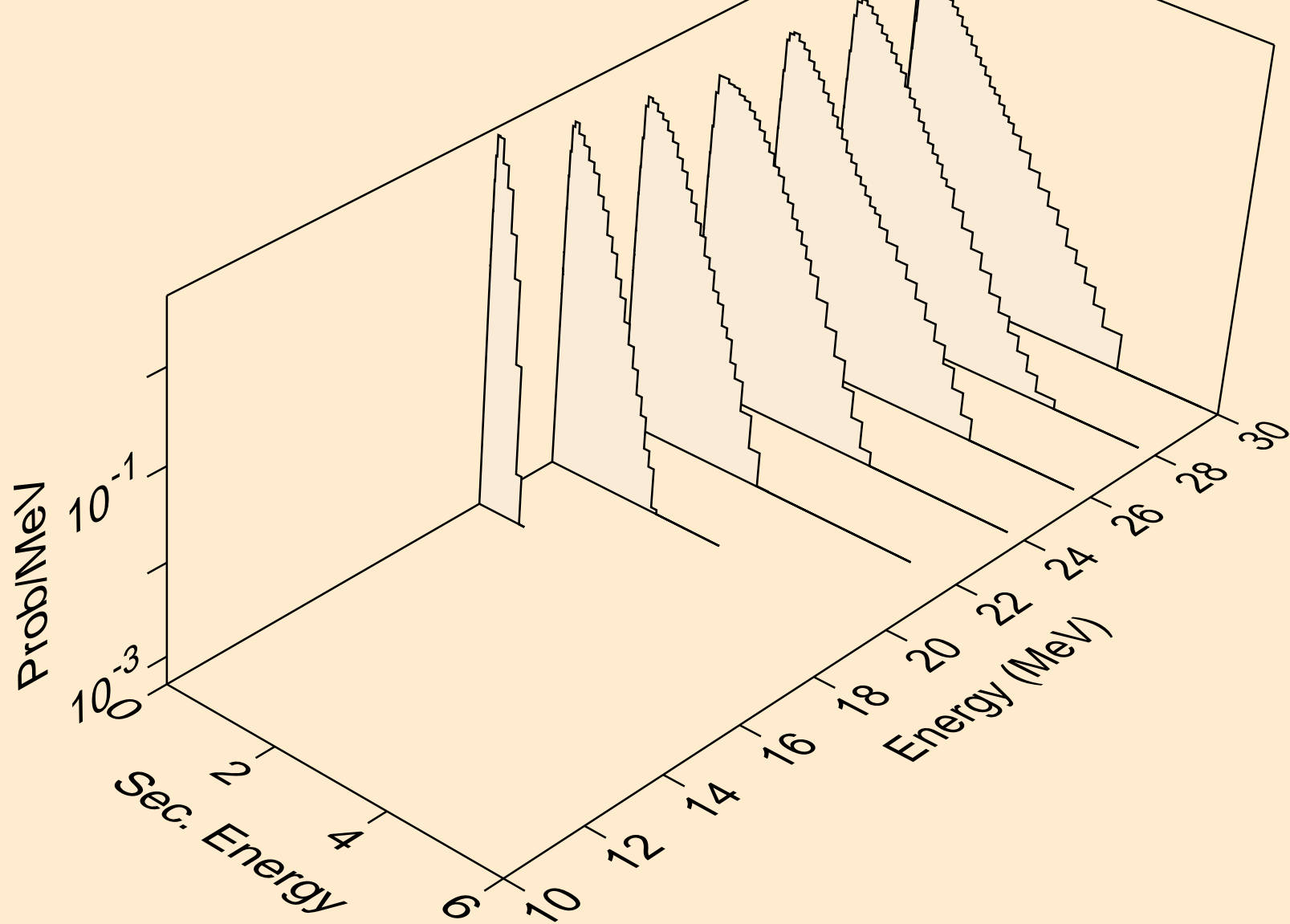


HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)<sub>a</sub>

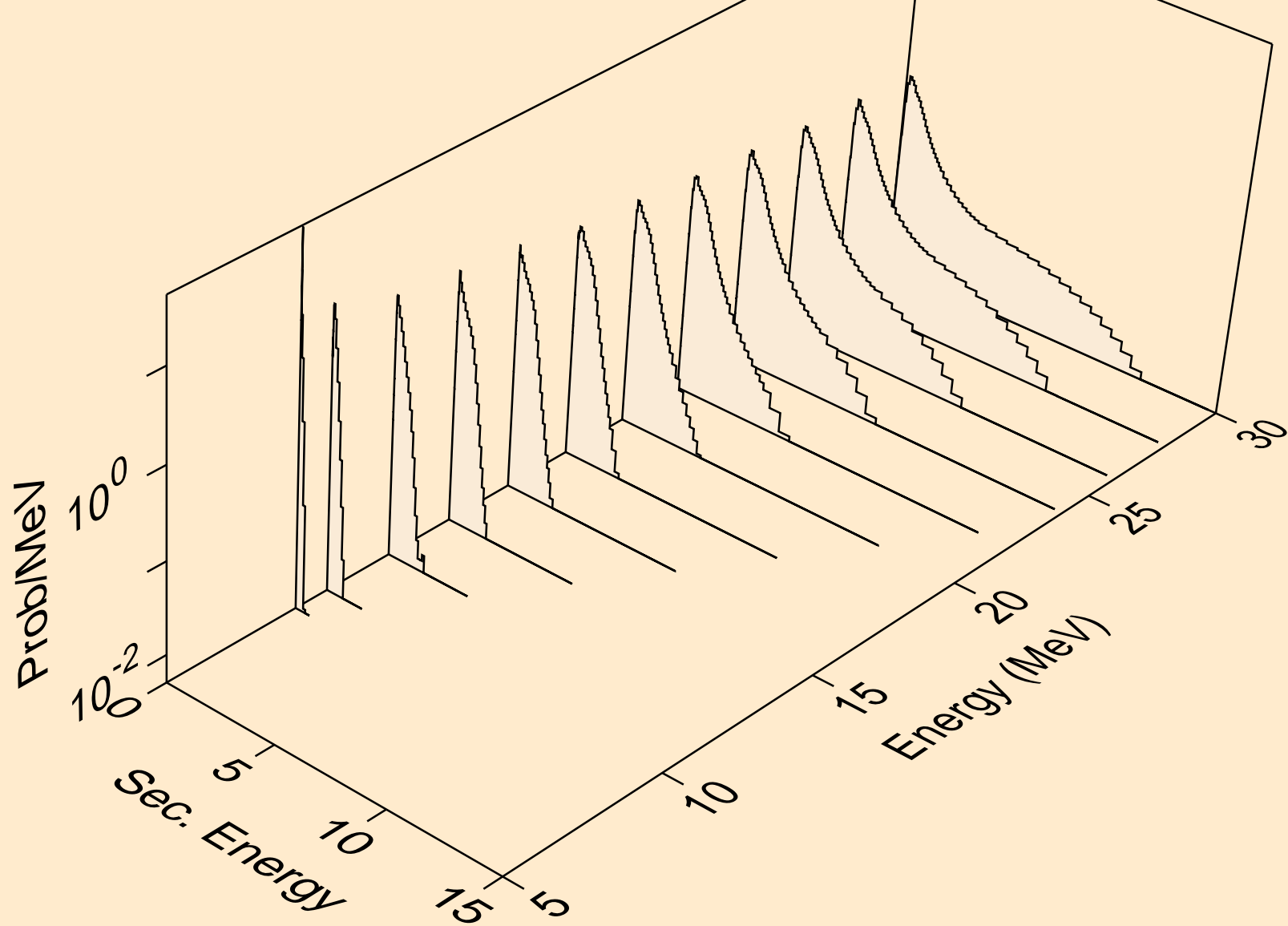




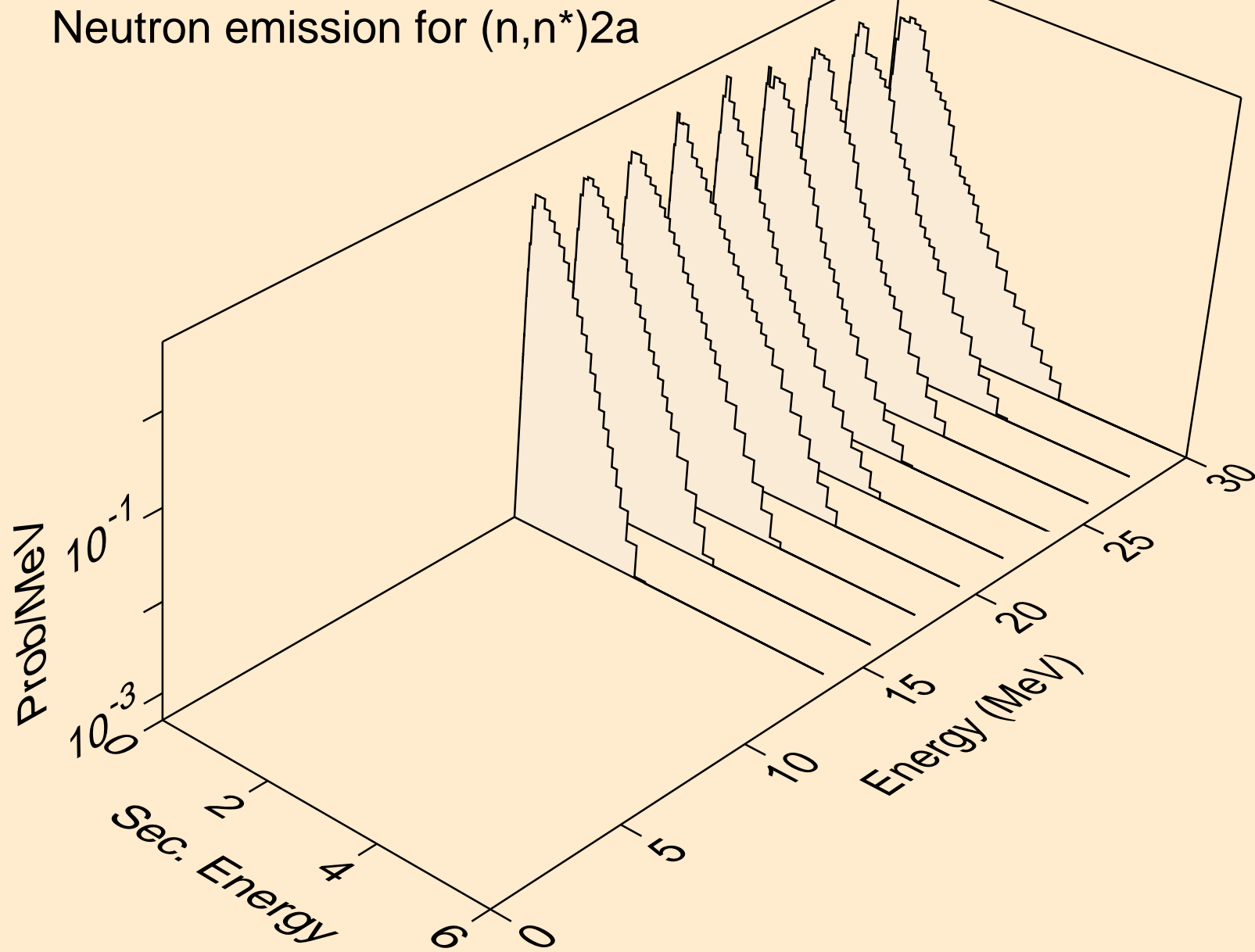
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)a



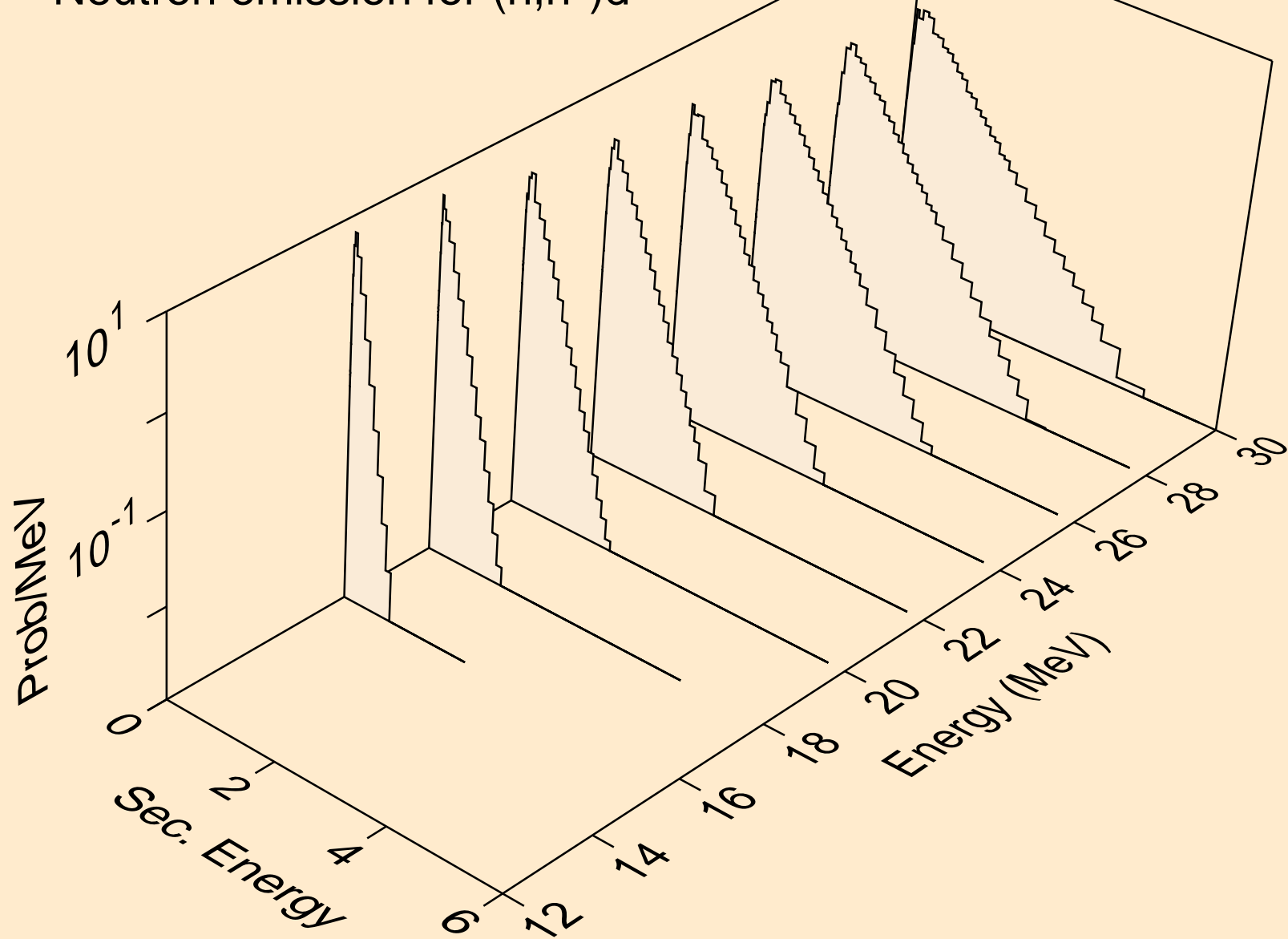
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p



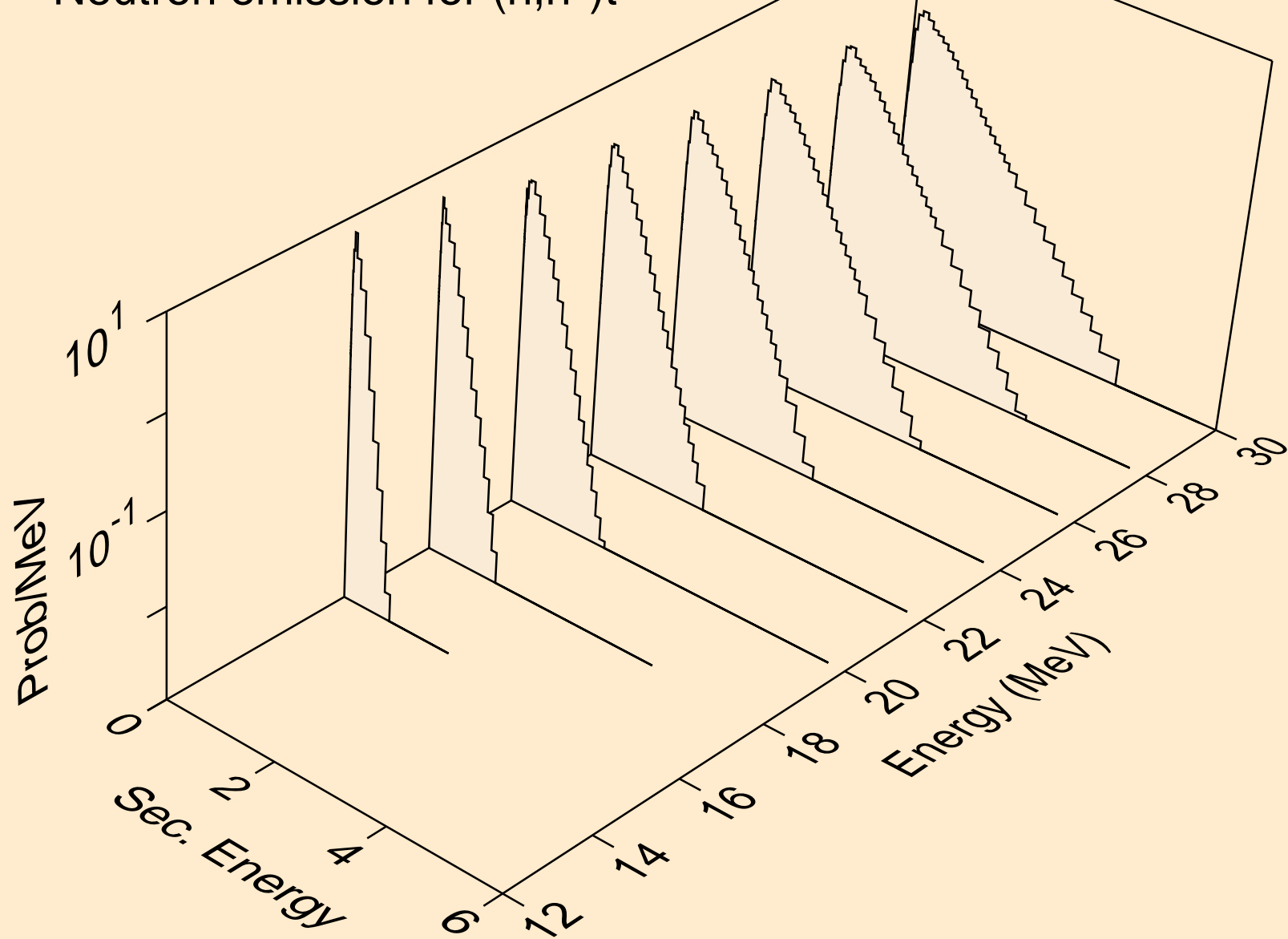
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)2a



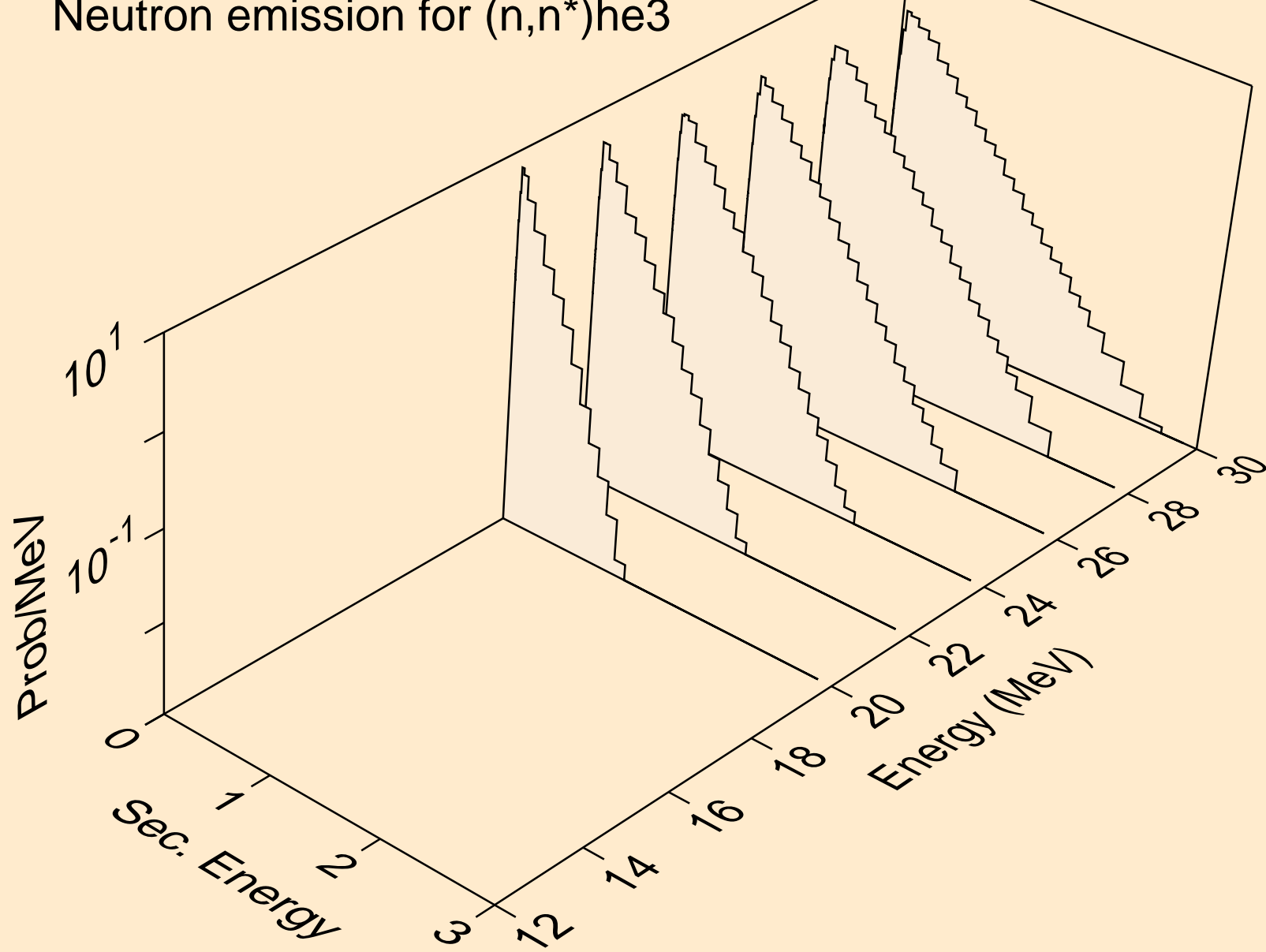
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d



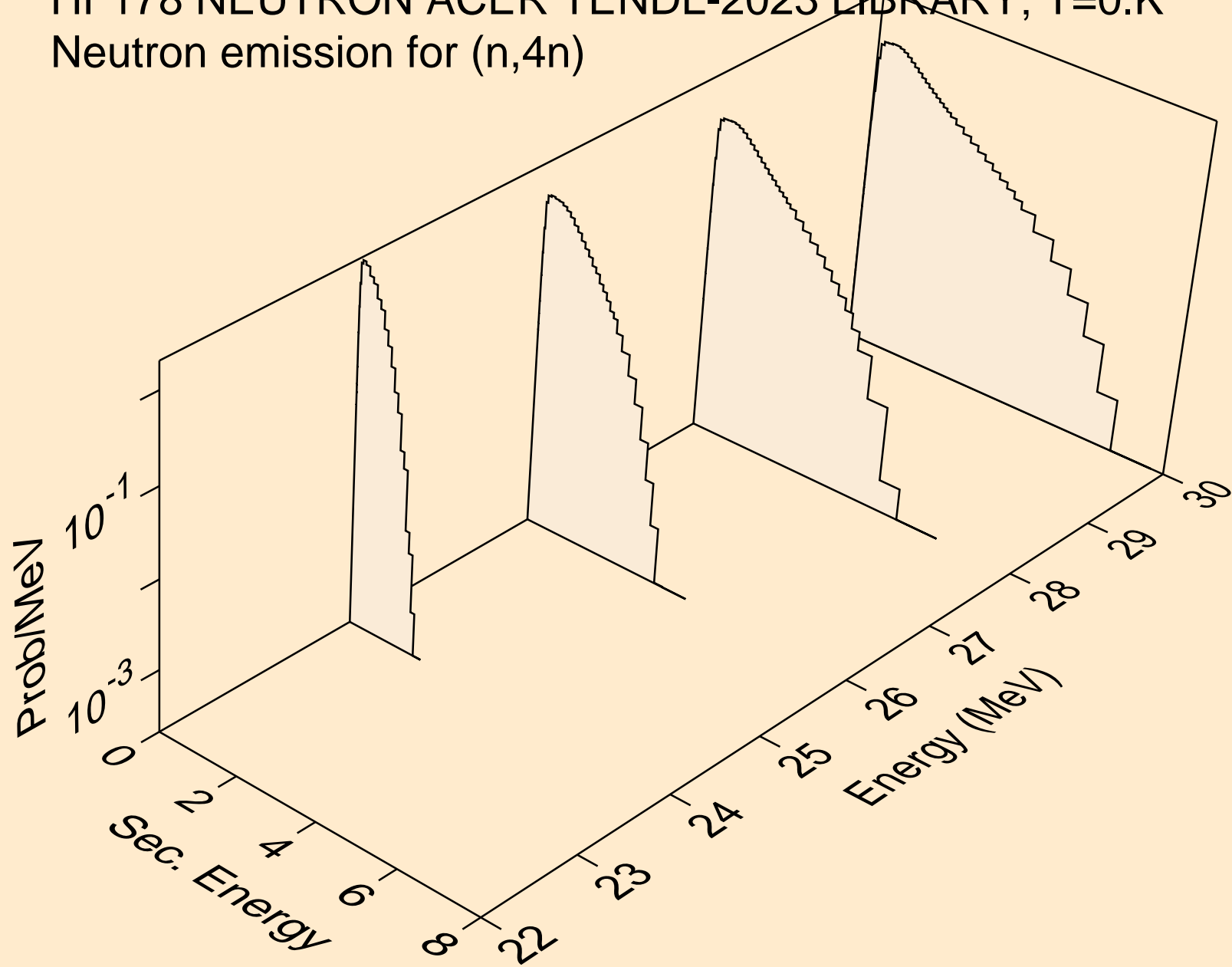
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)t



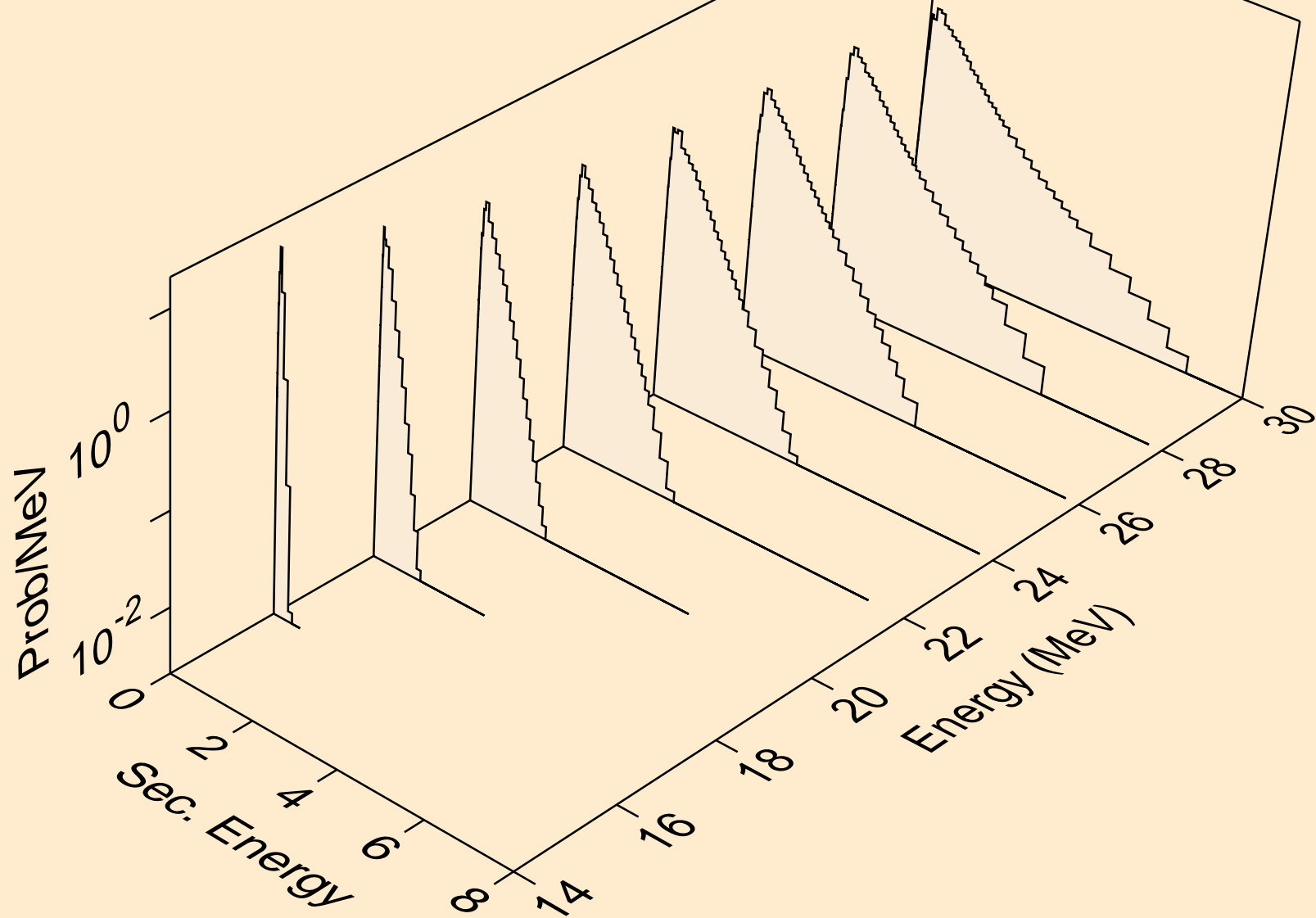
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3



HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,4n)

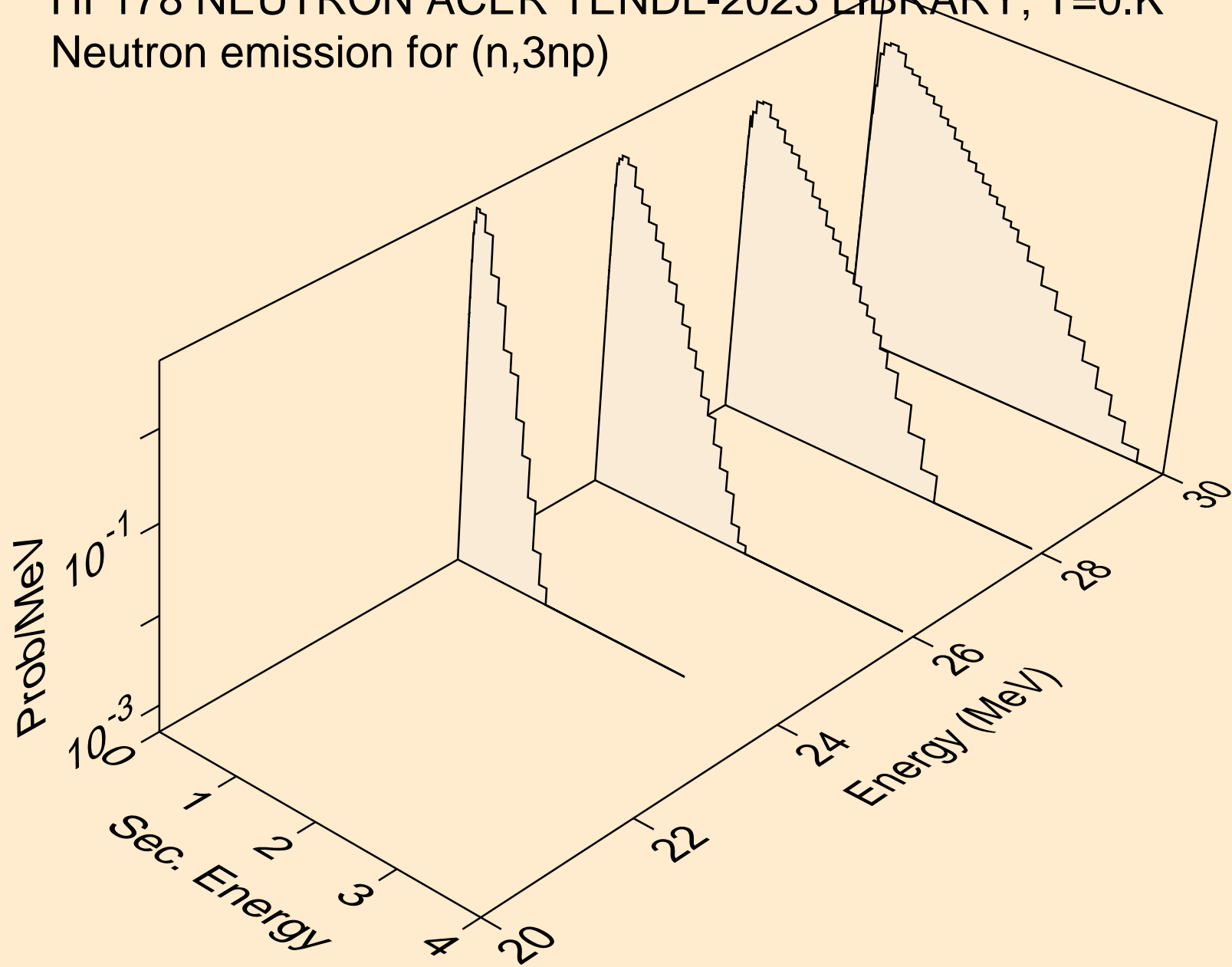


HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2np)

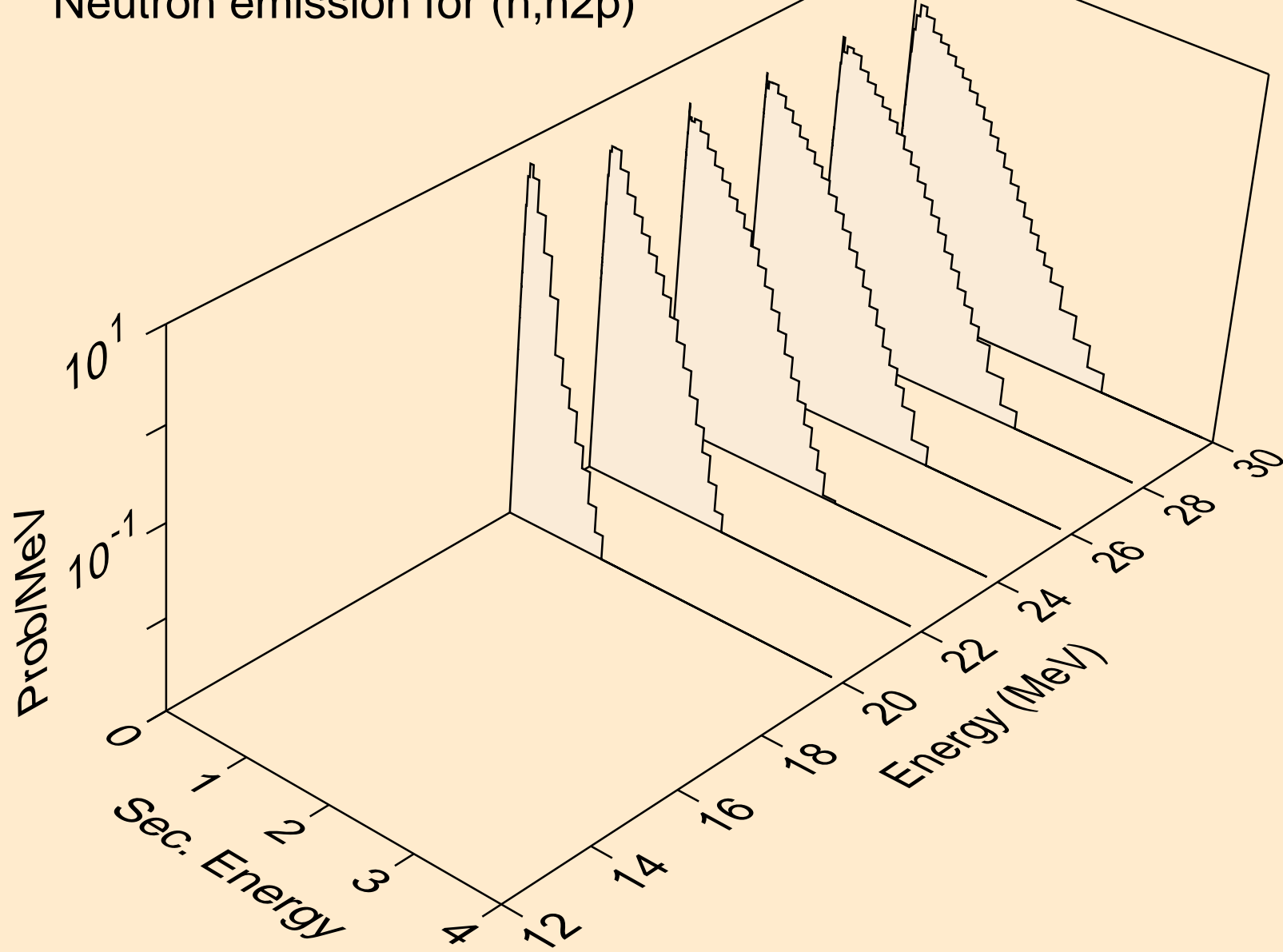




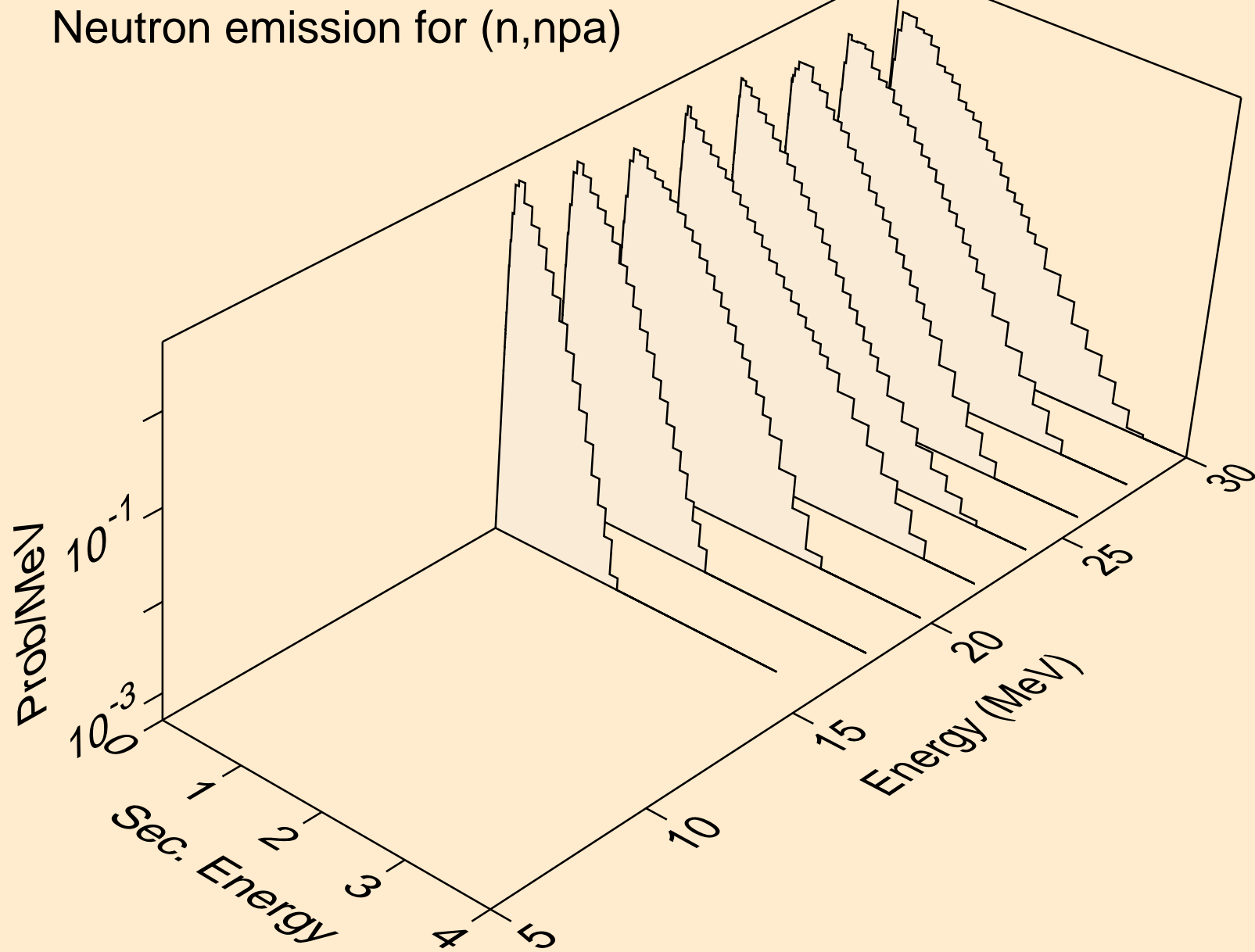
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3np)



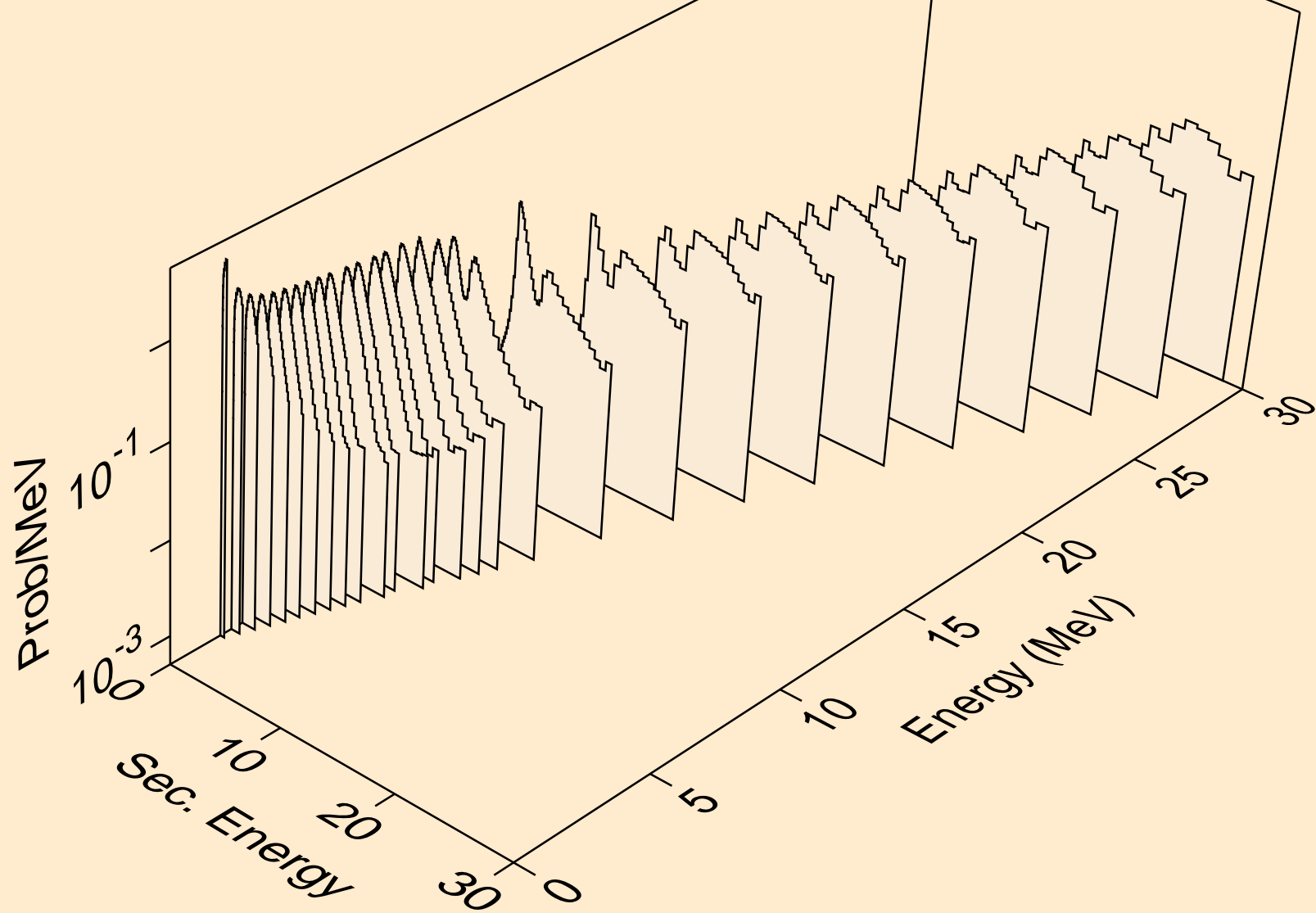
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n2p)



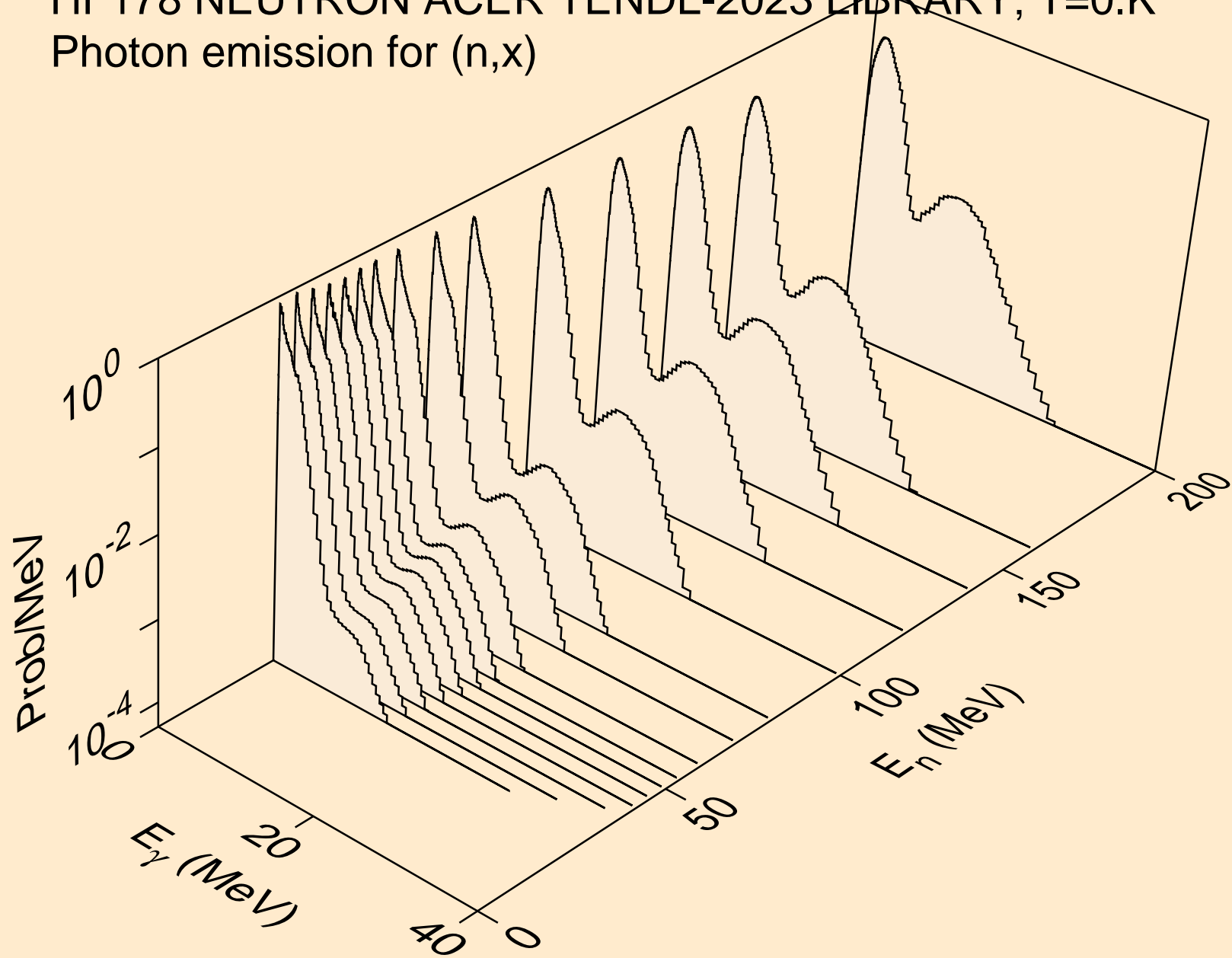
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,npa)



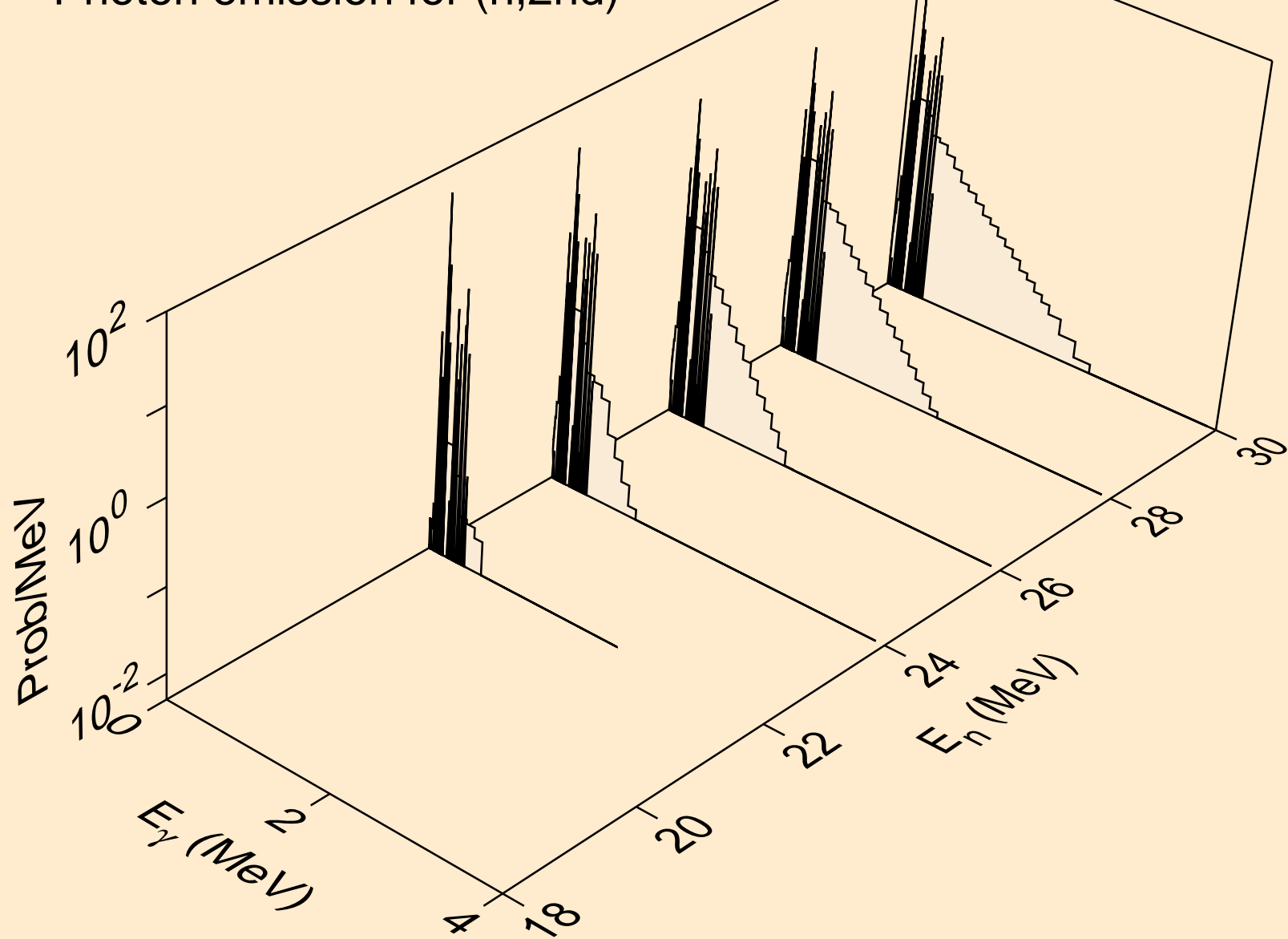
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)



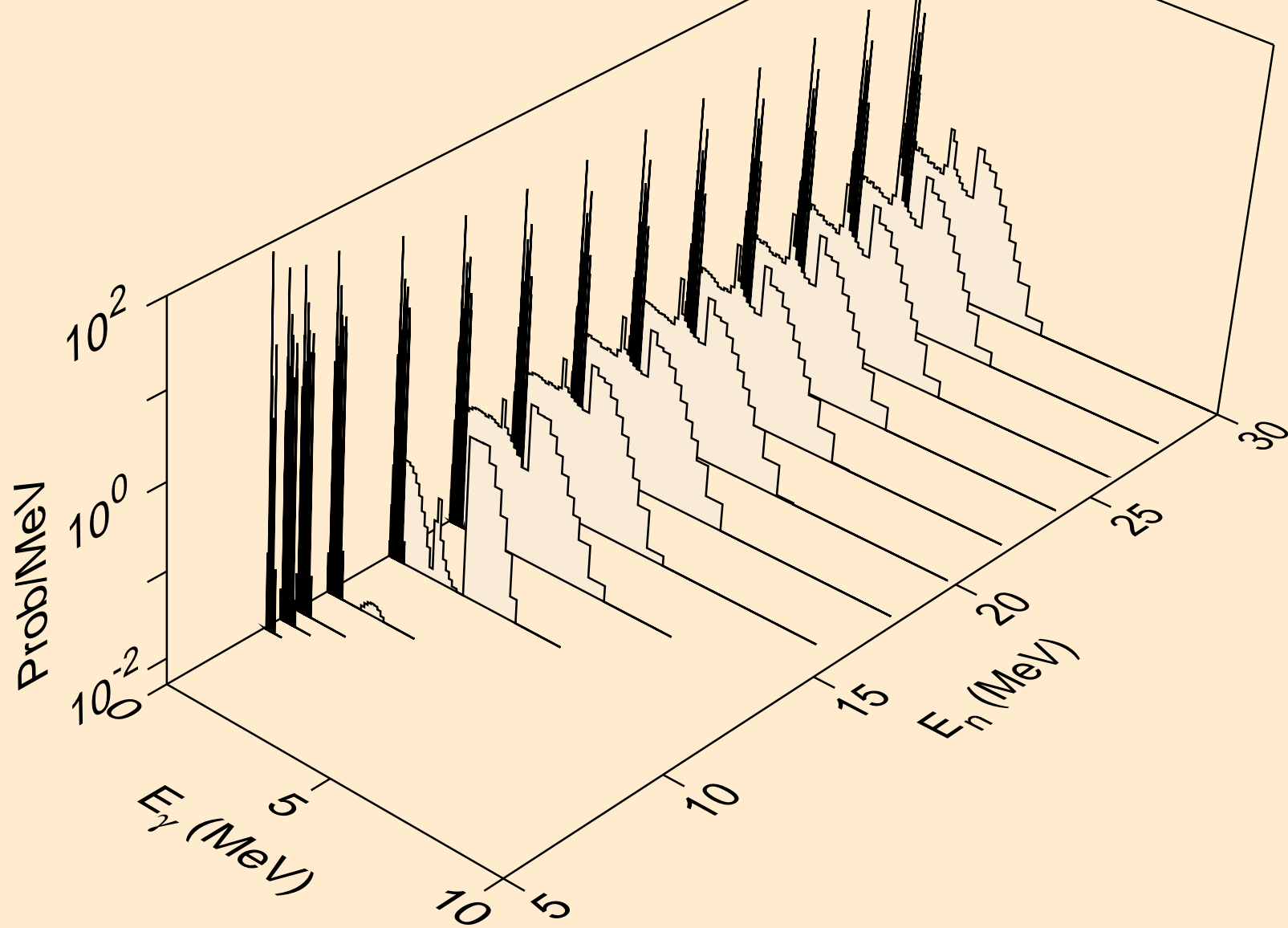
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,x)



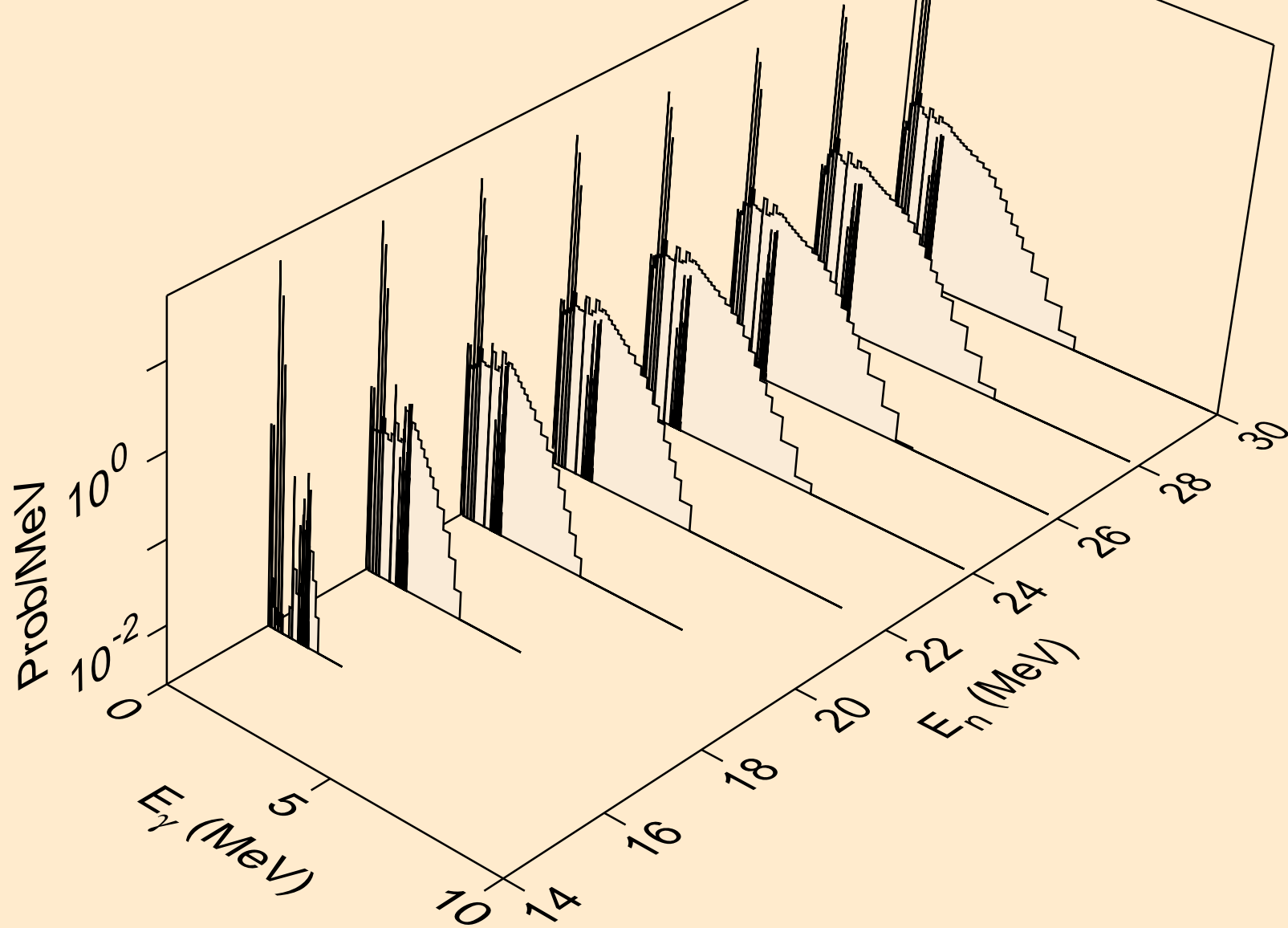
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)



HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)

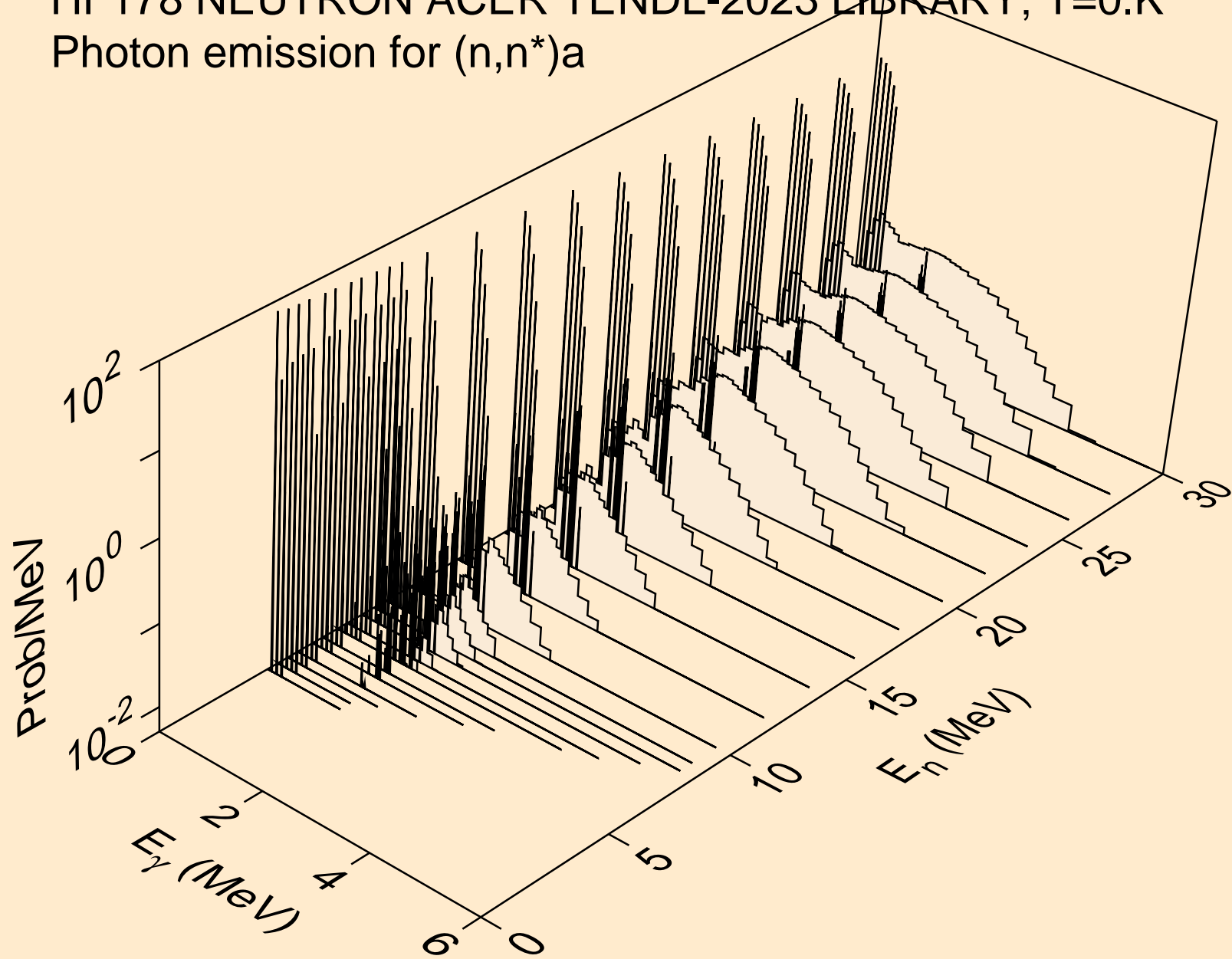


HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)

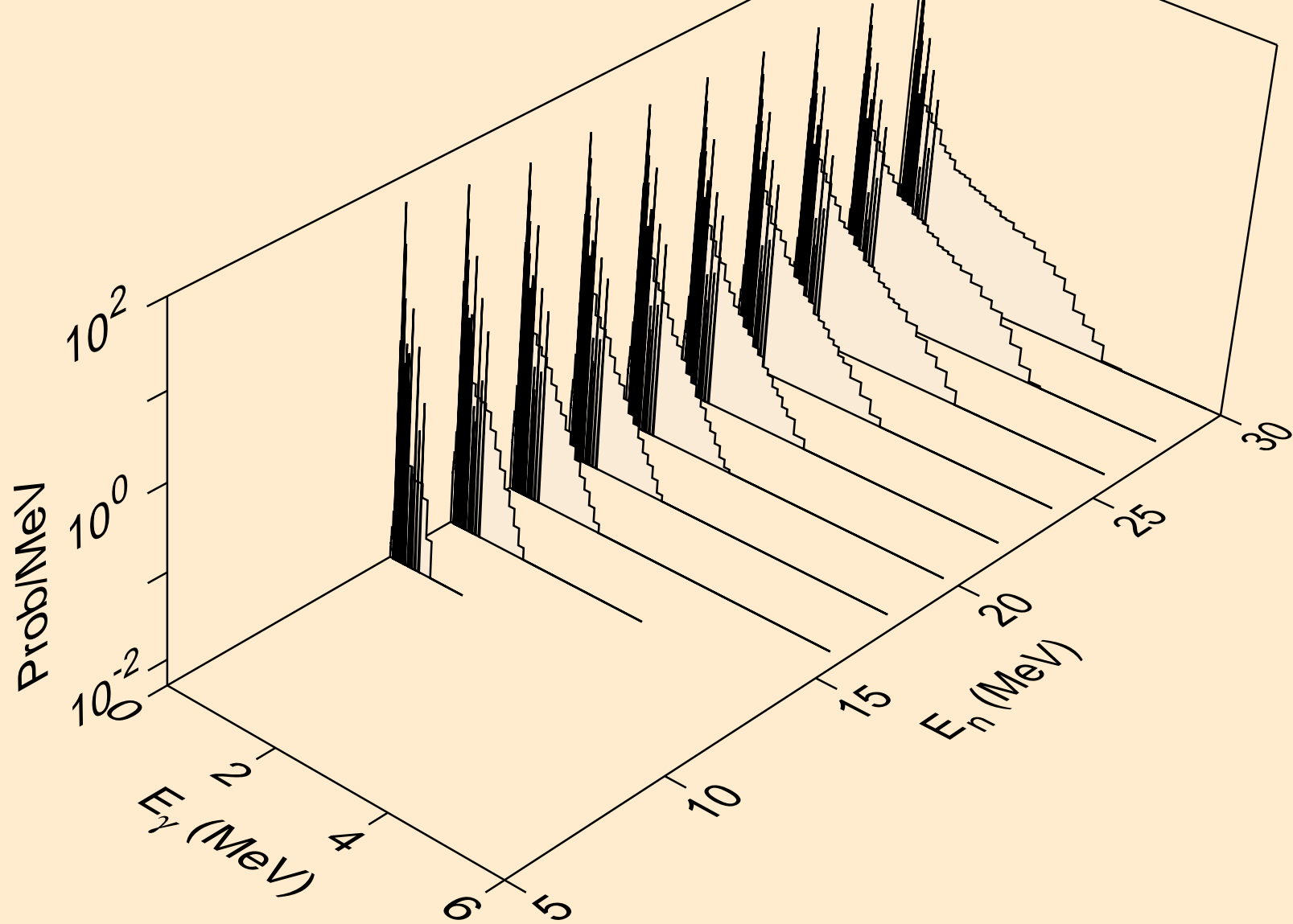




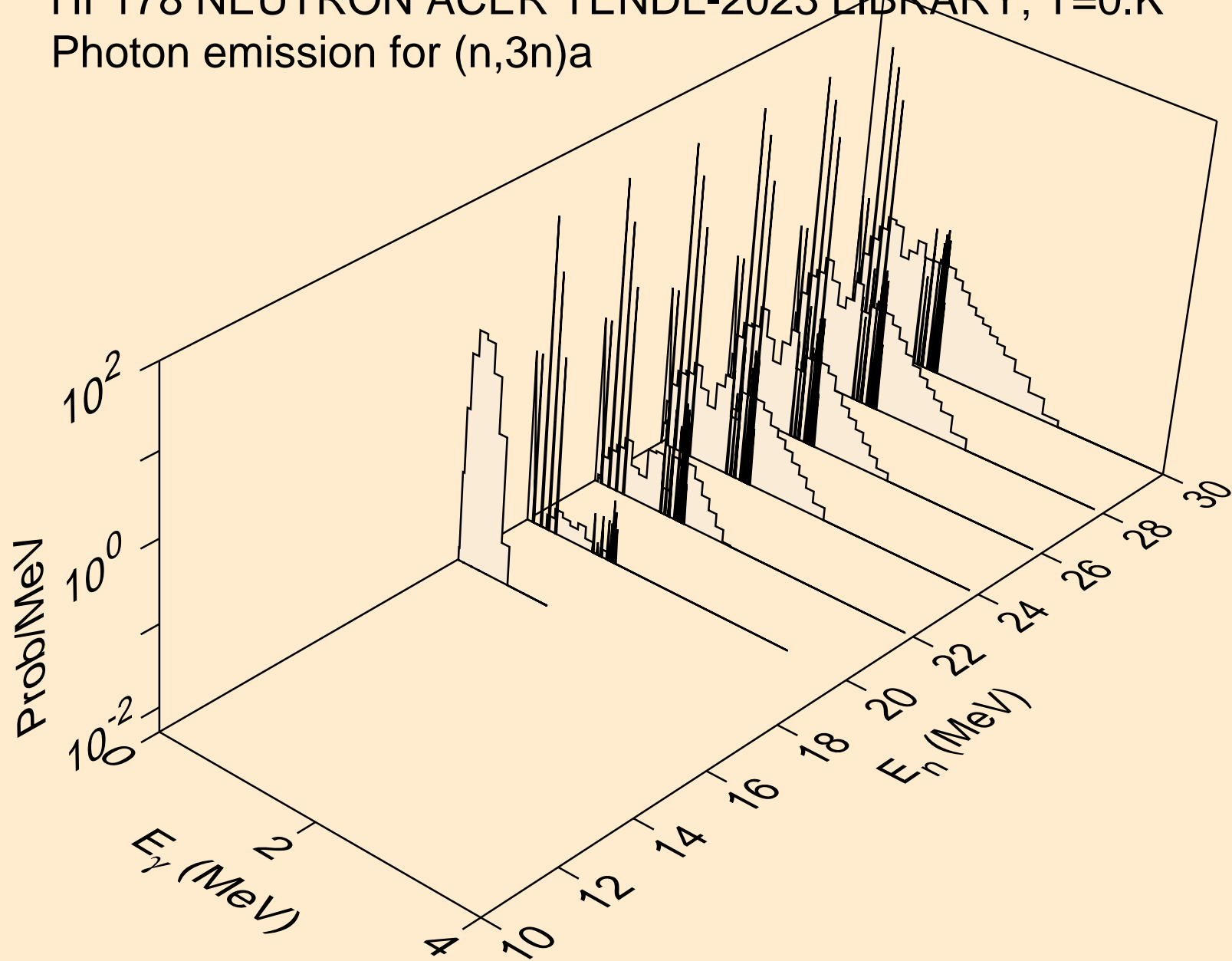
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



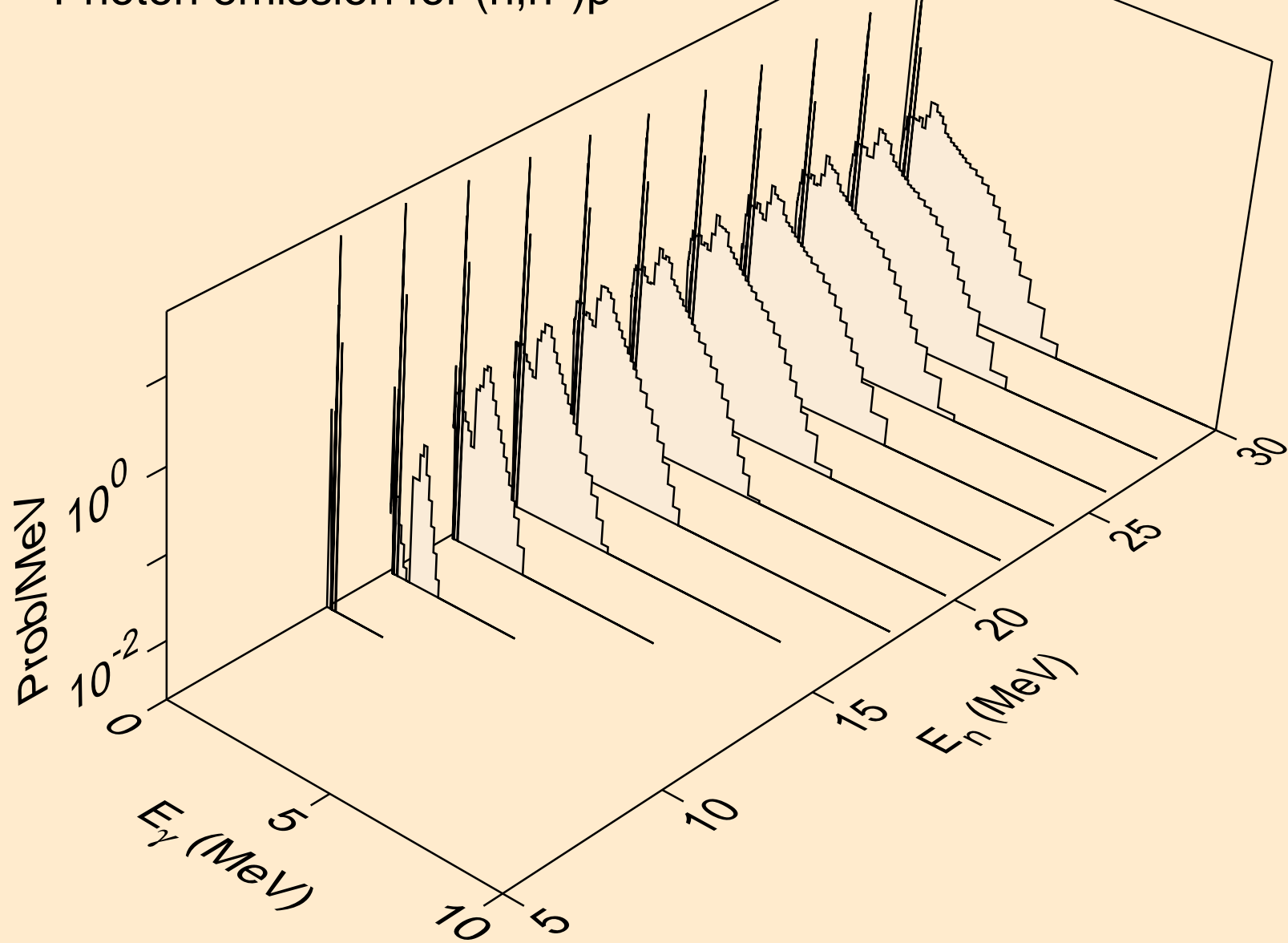
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)a



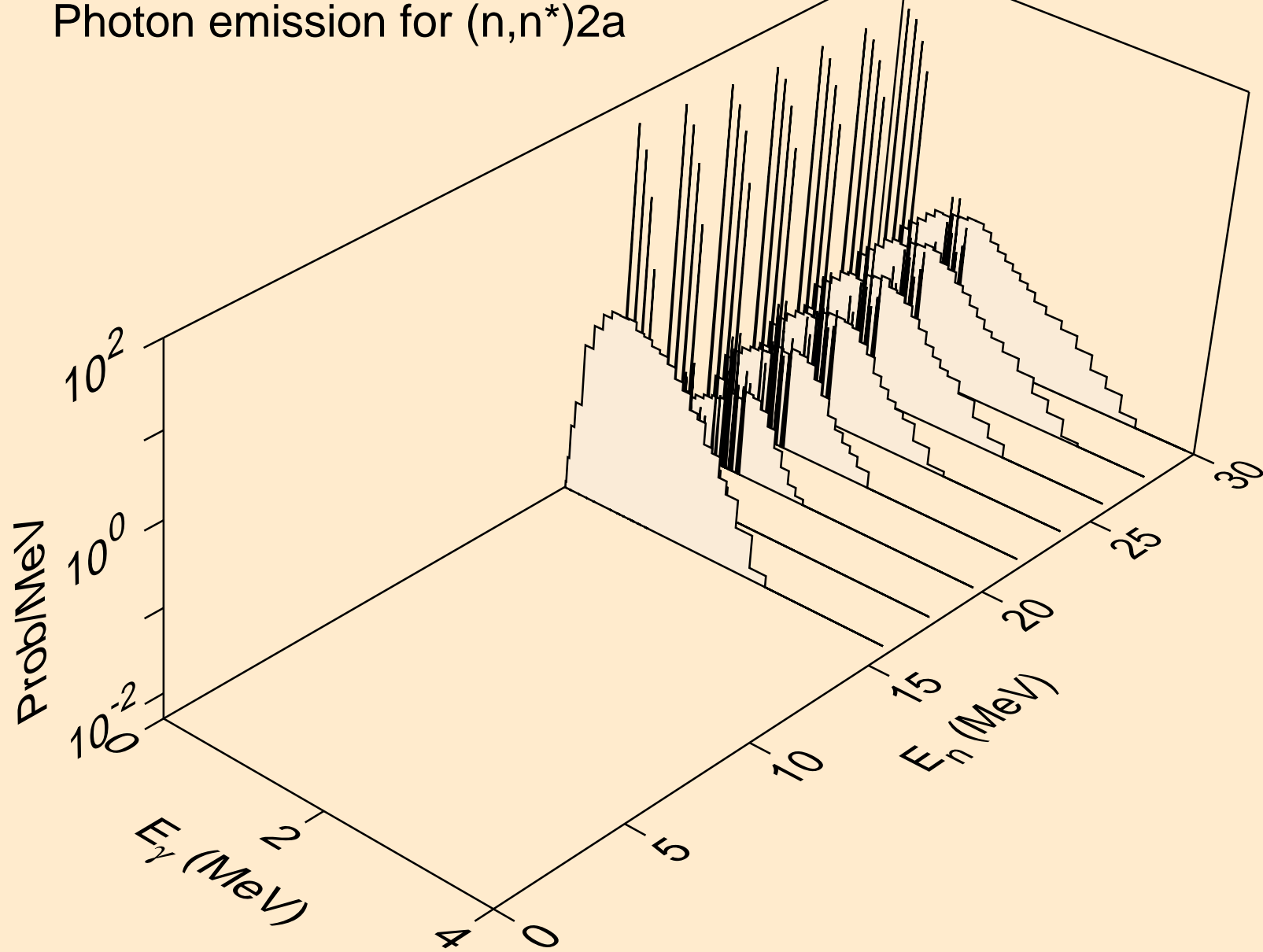
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)a



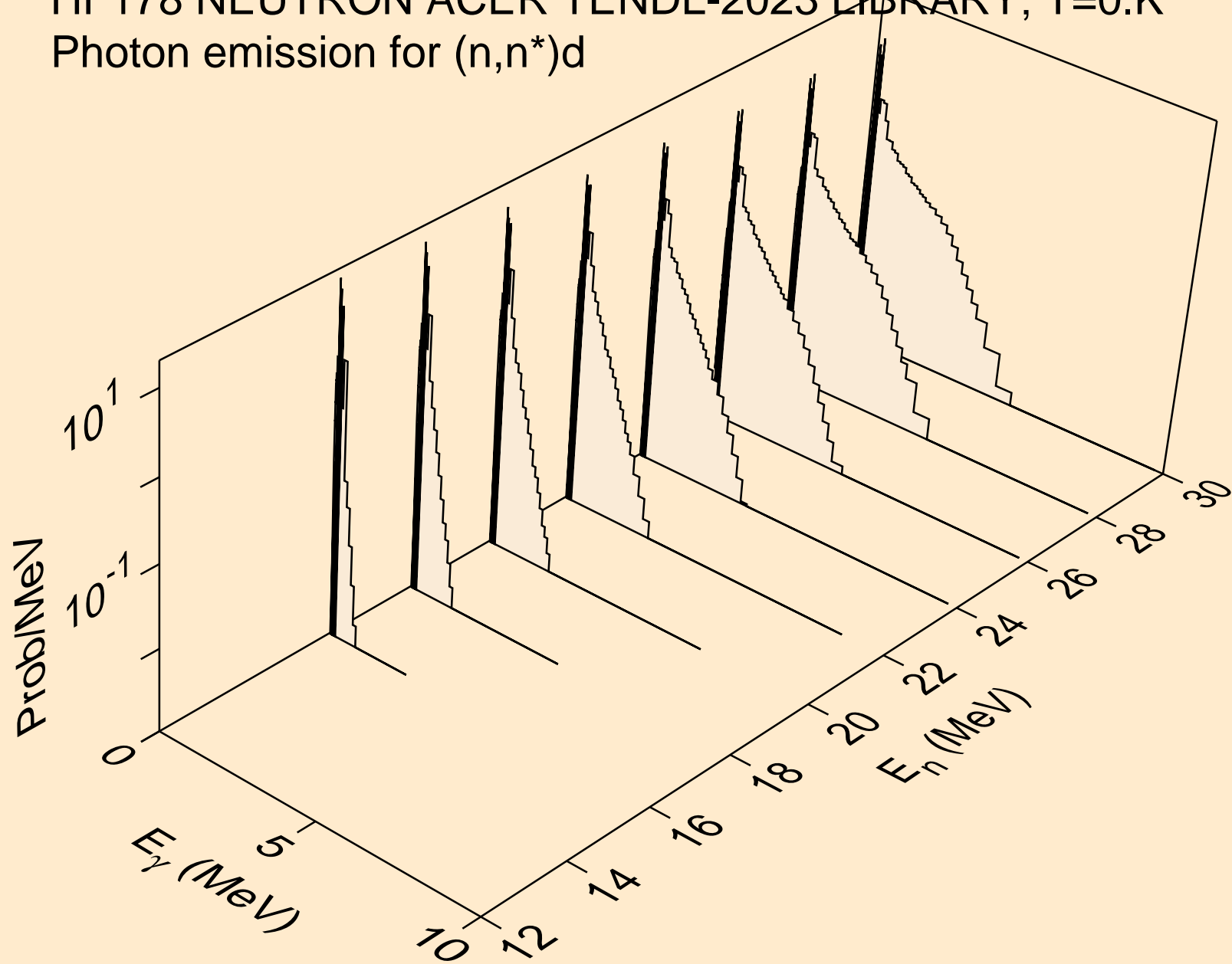
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



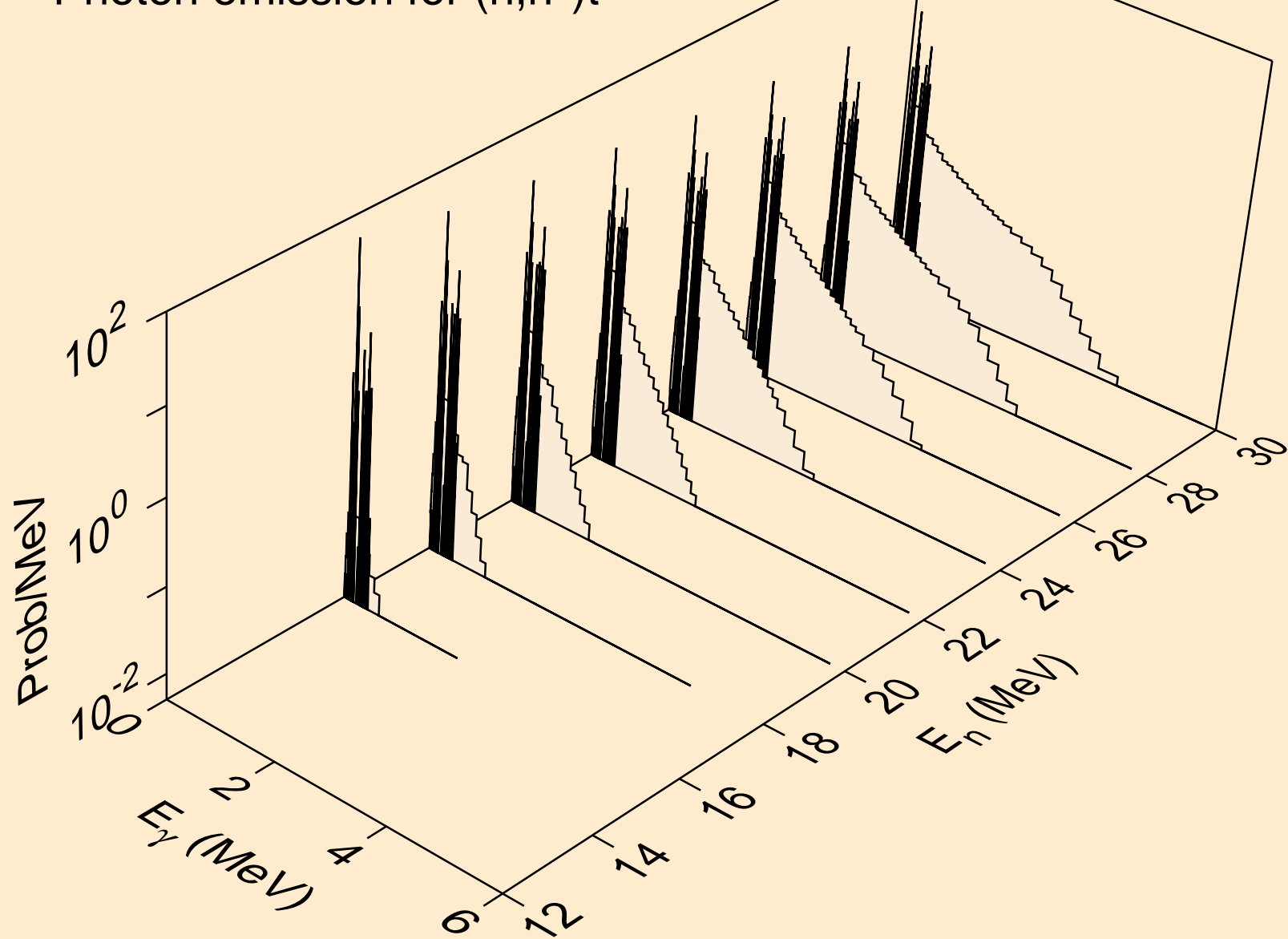
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)2a



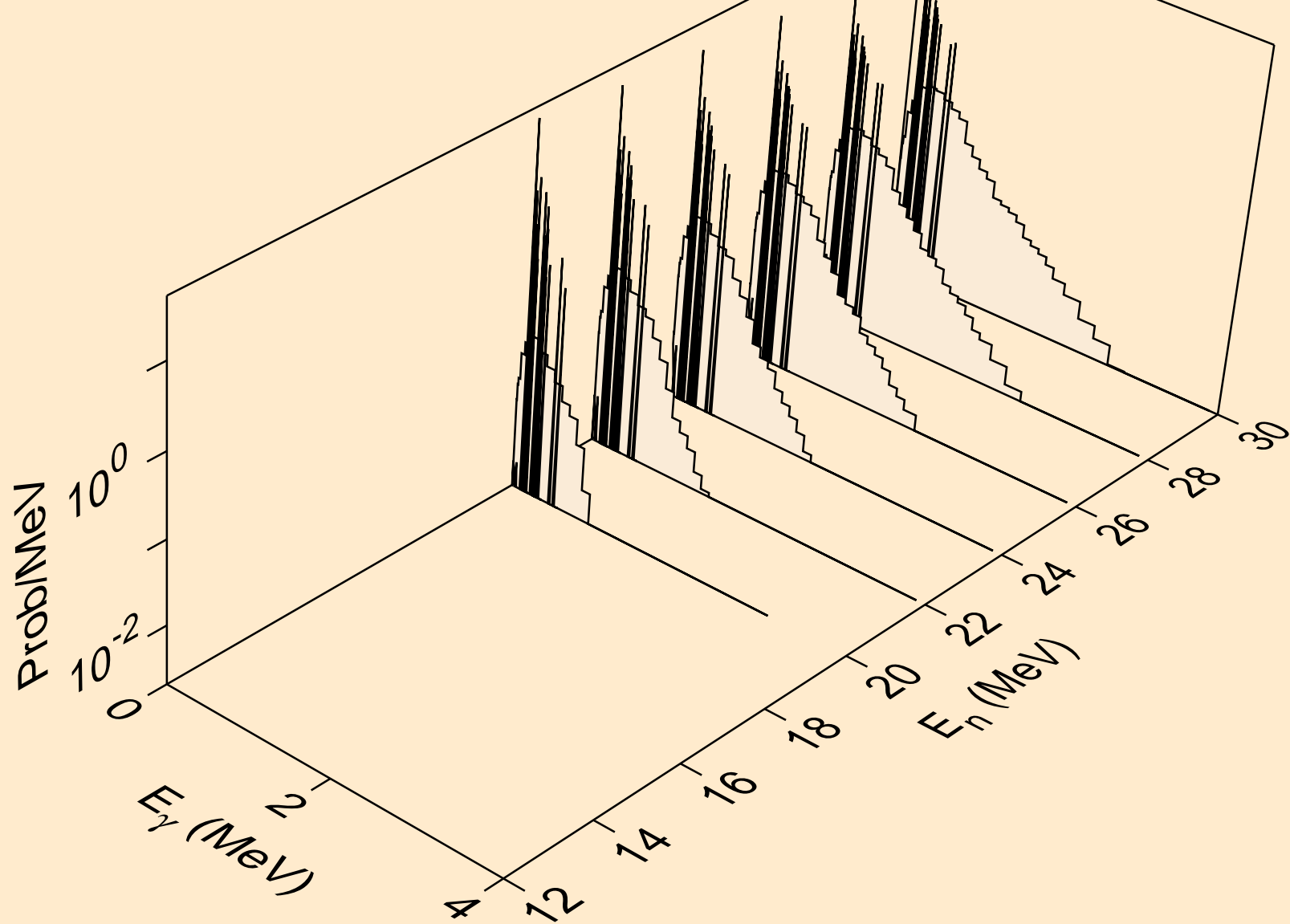
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d



HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)t

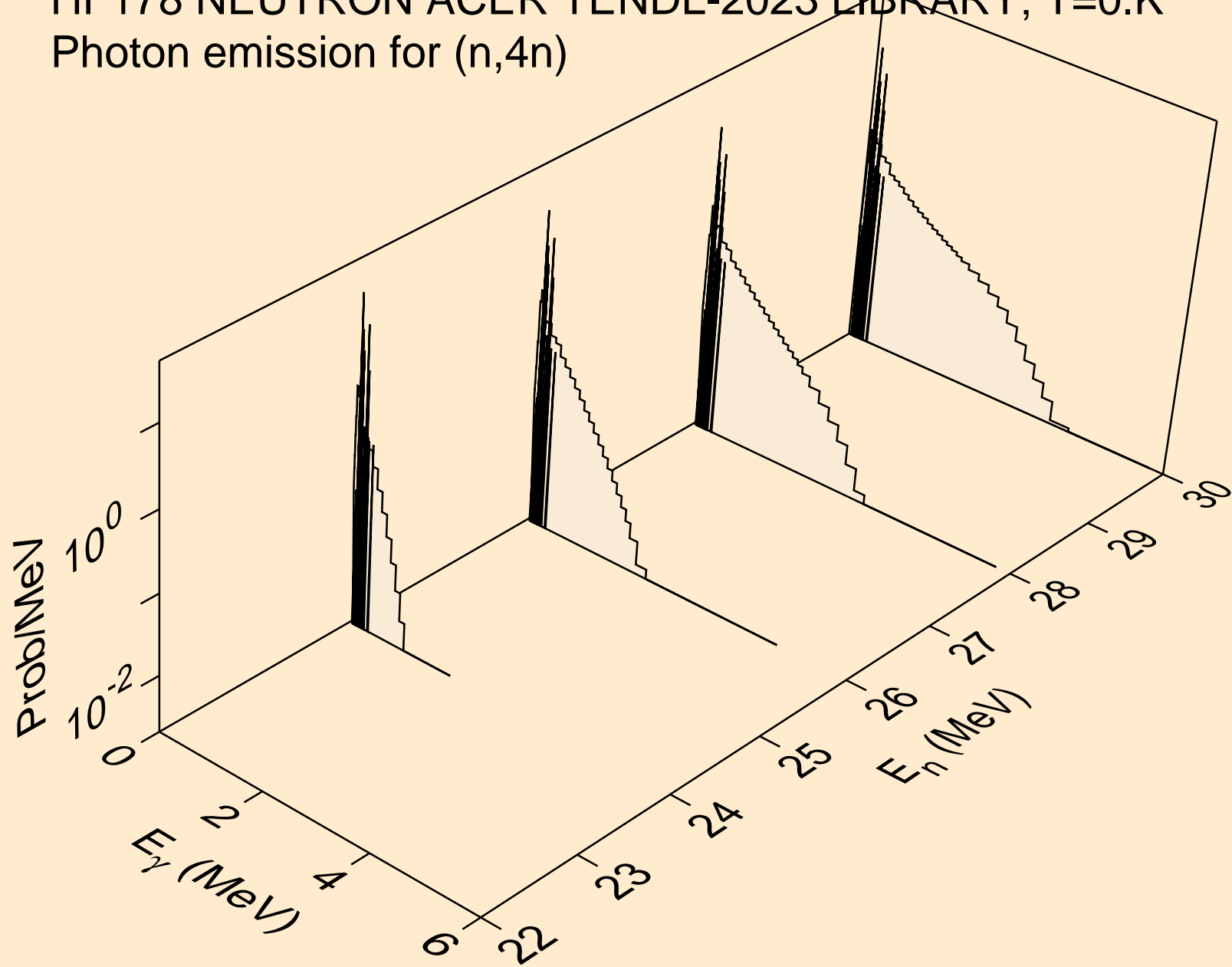


HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3

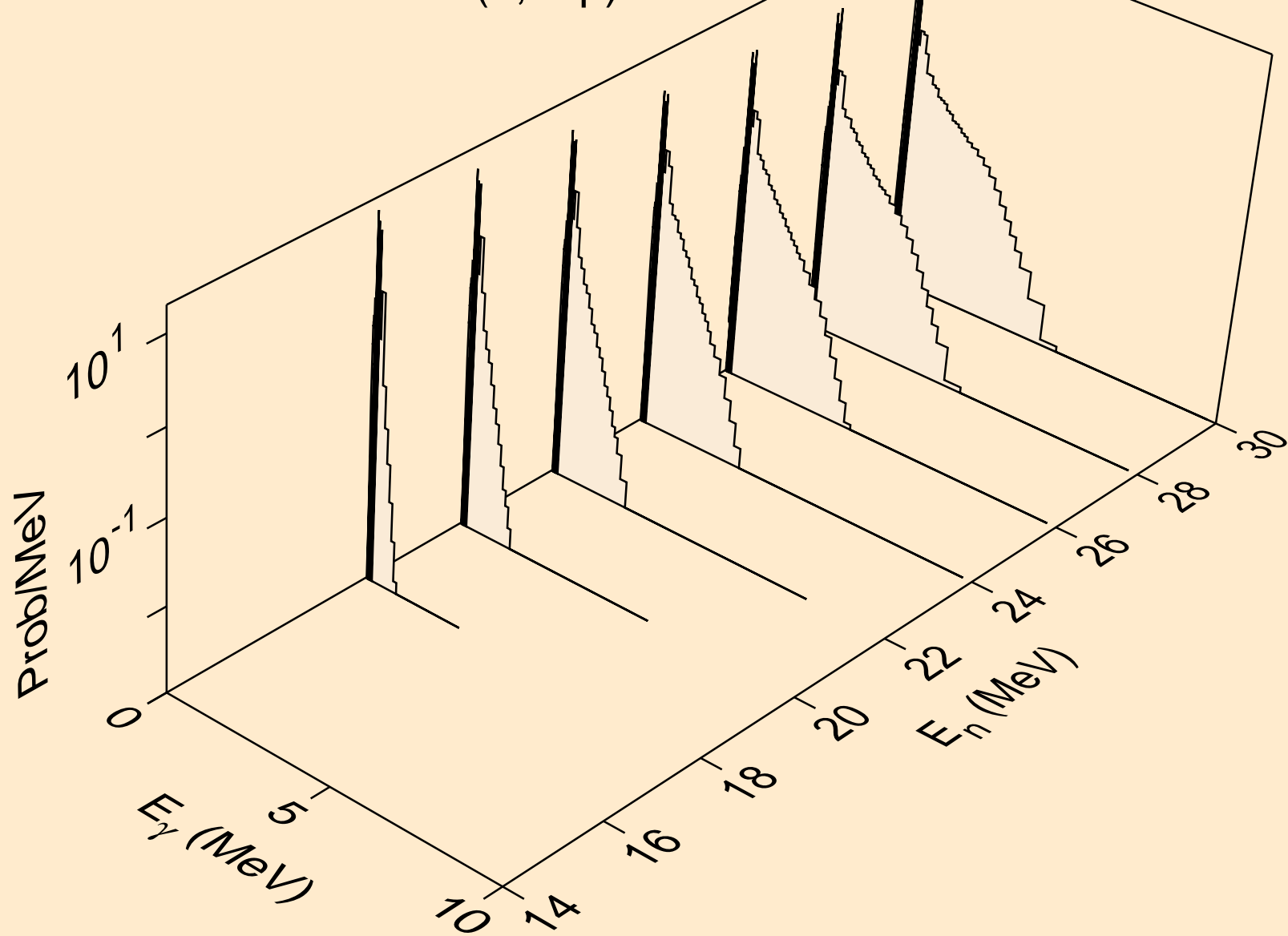




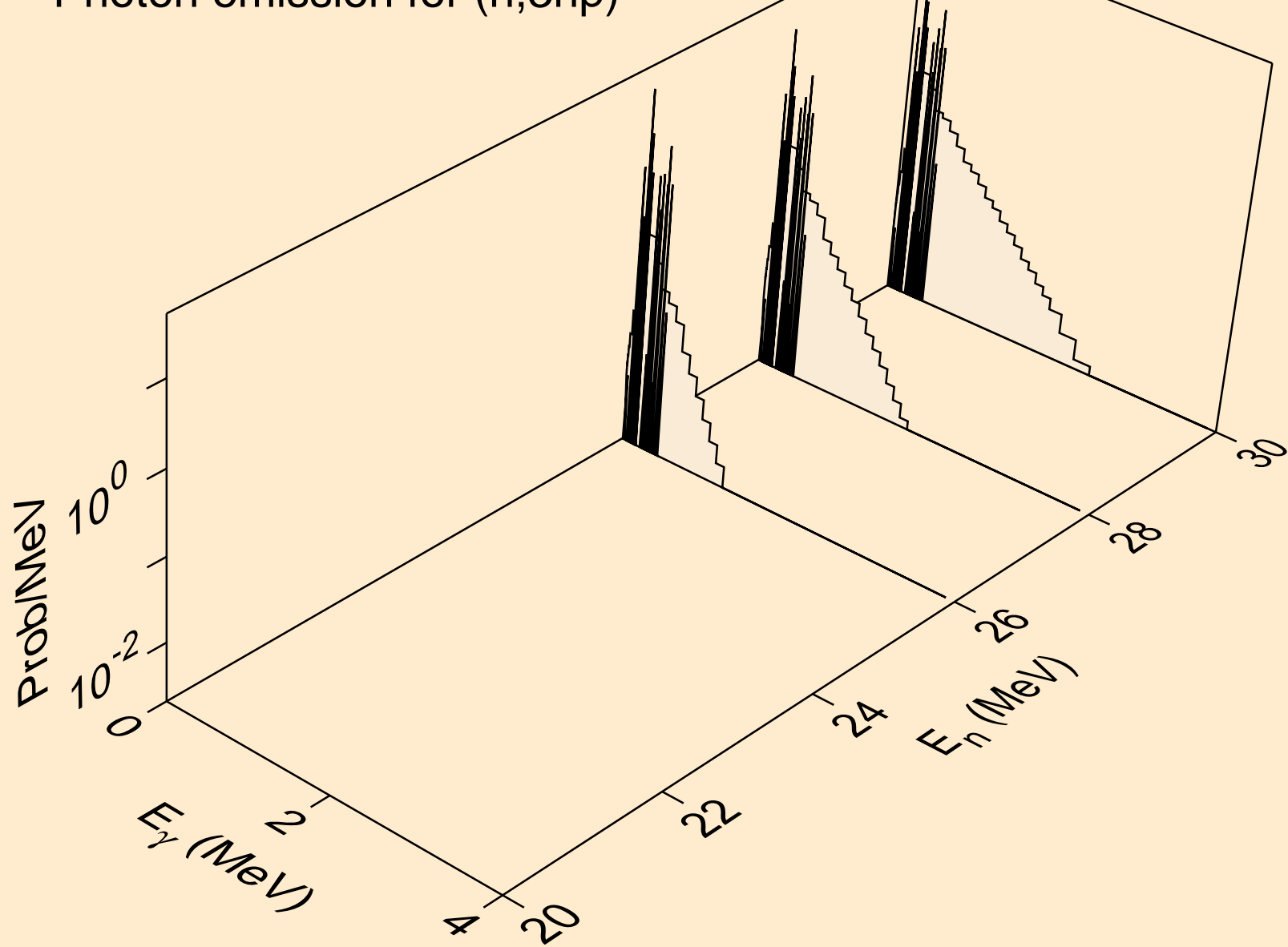
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,4n)



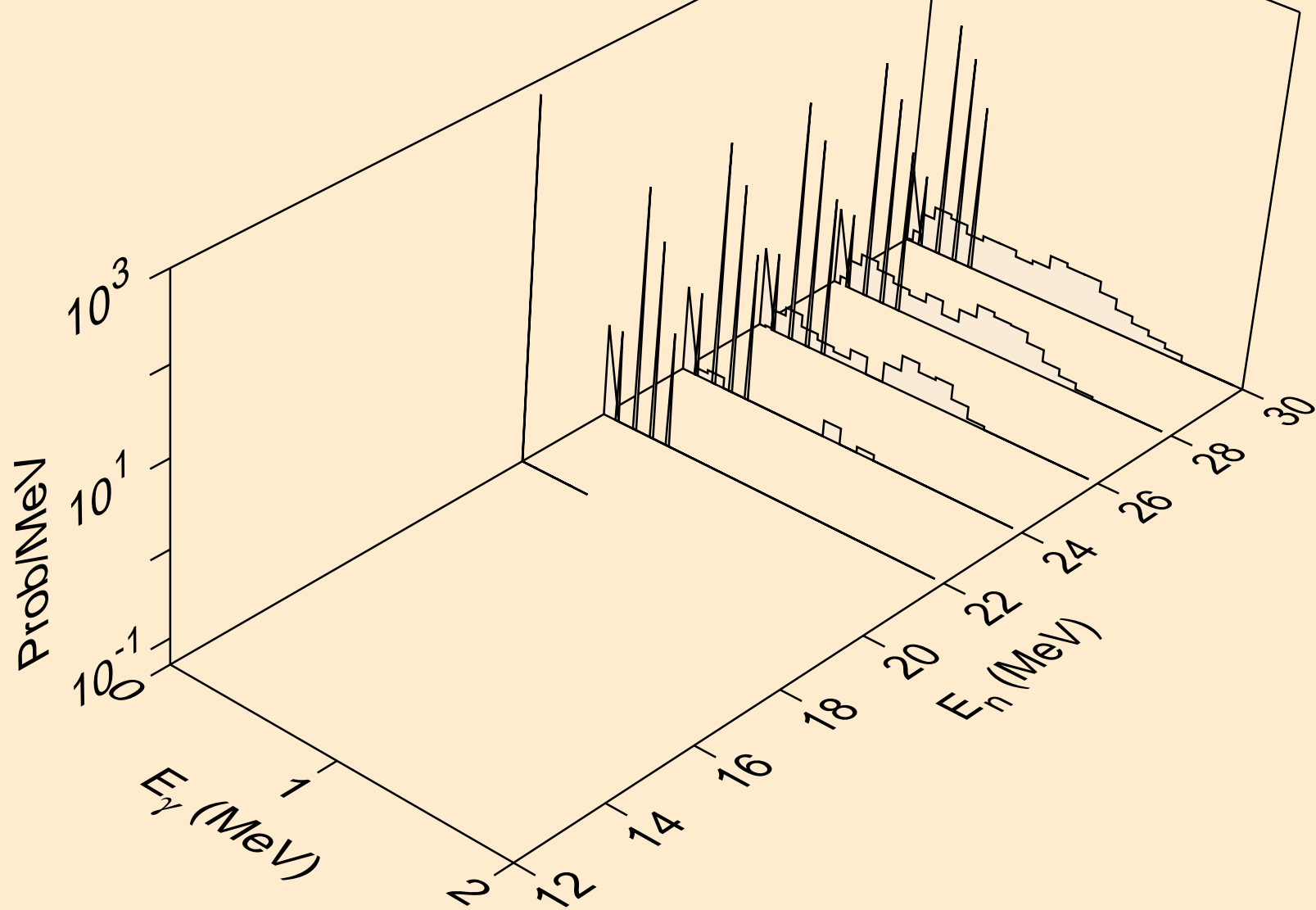
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2np)



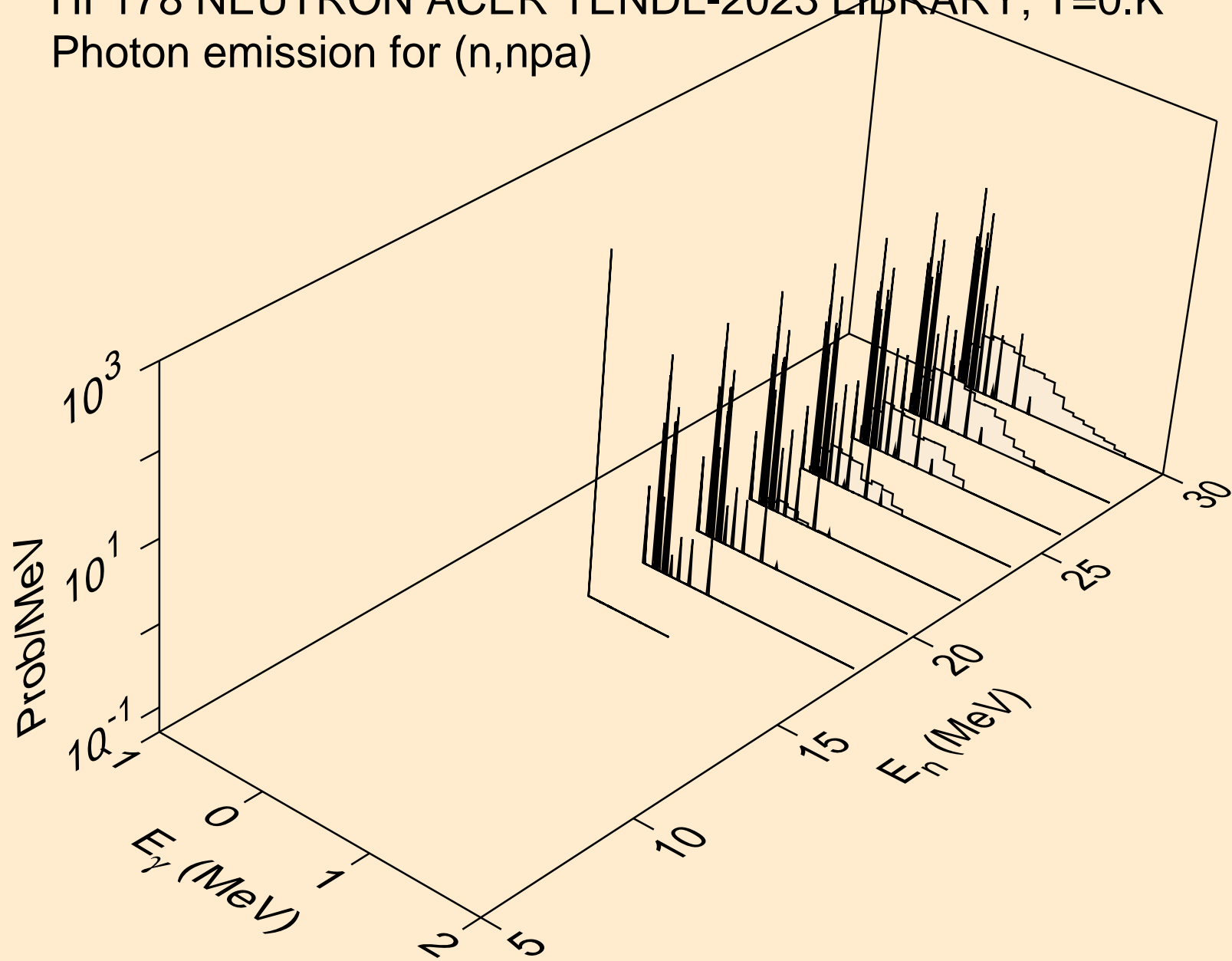
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3np)



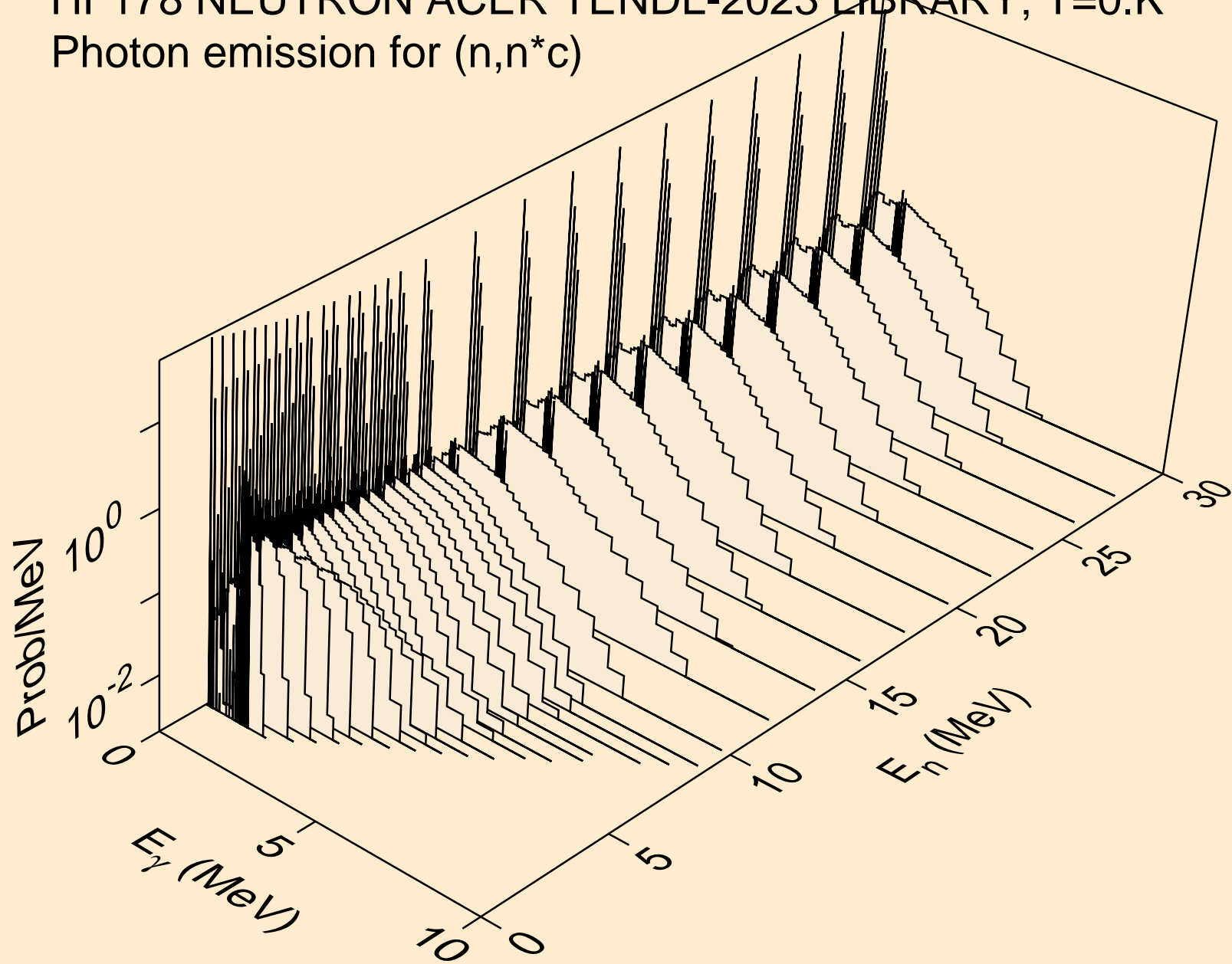
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n2p)



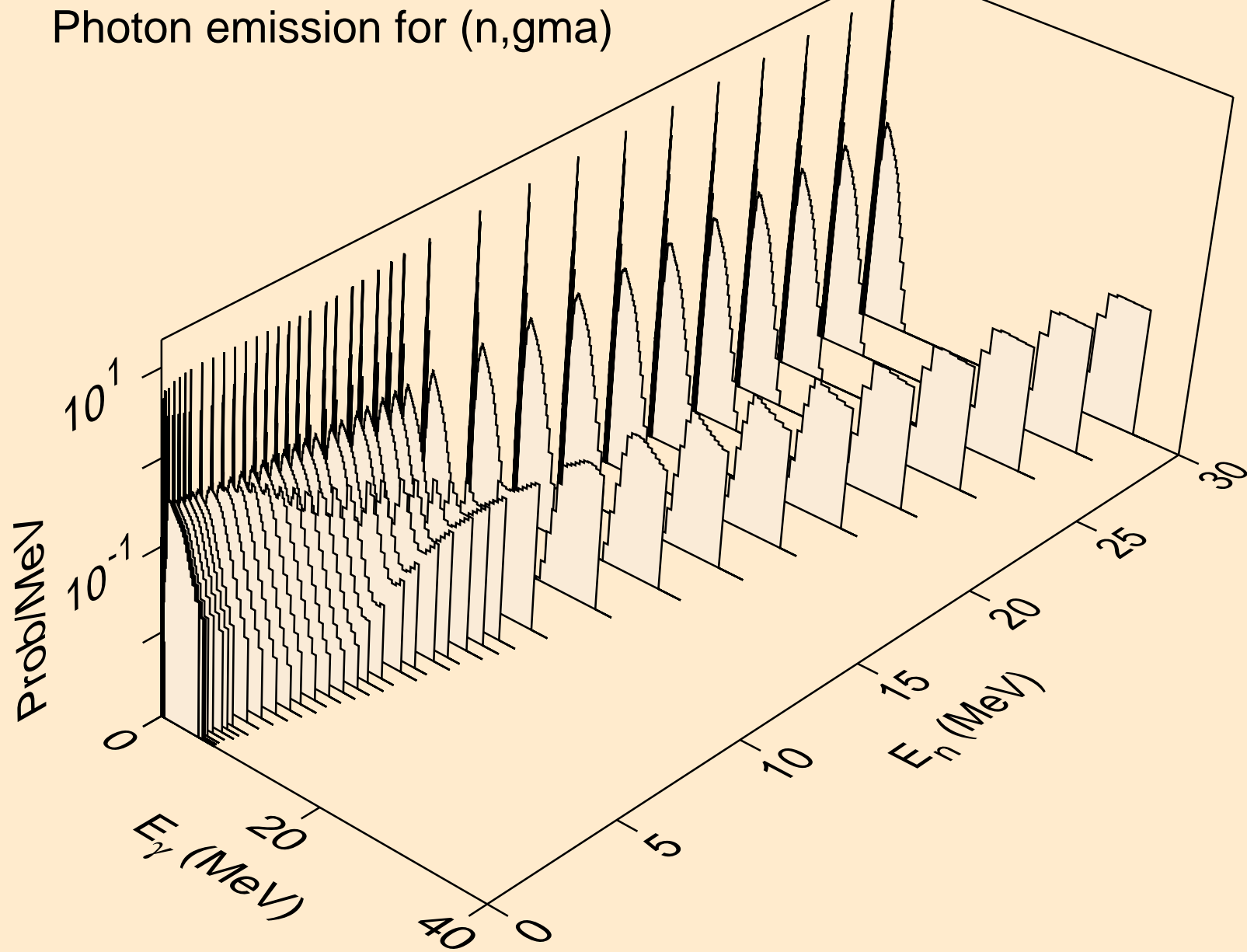
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,npa)



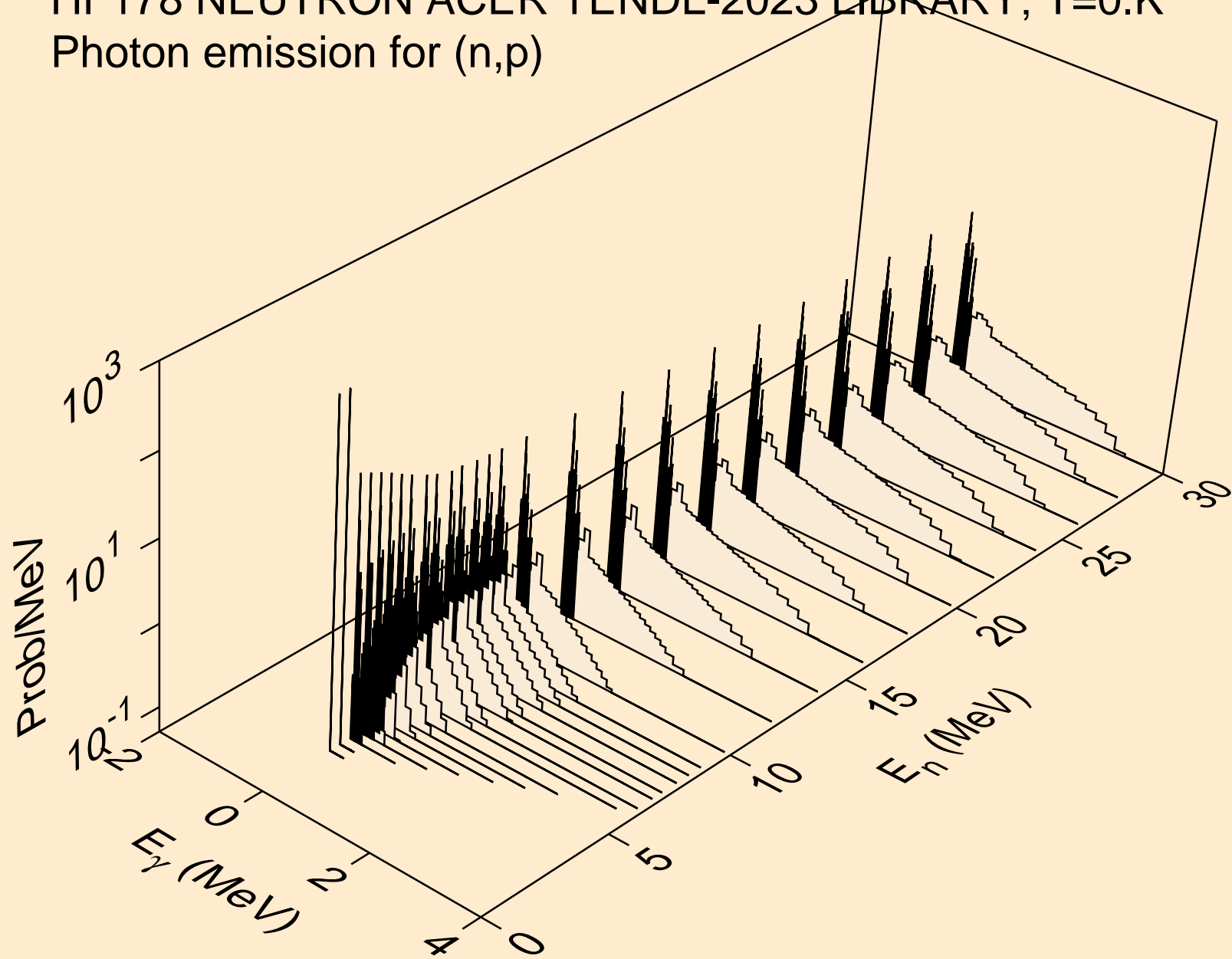
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*c)



HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,gma)

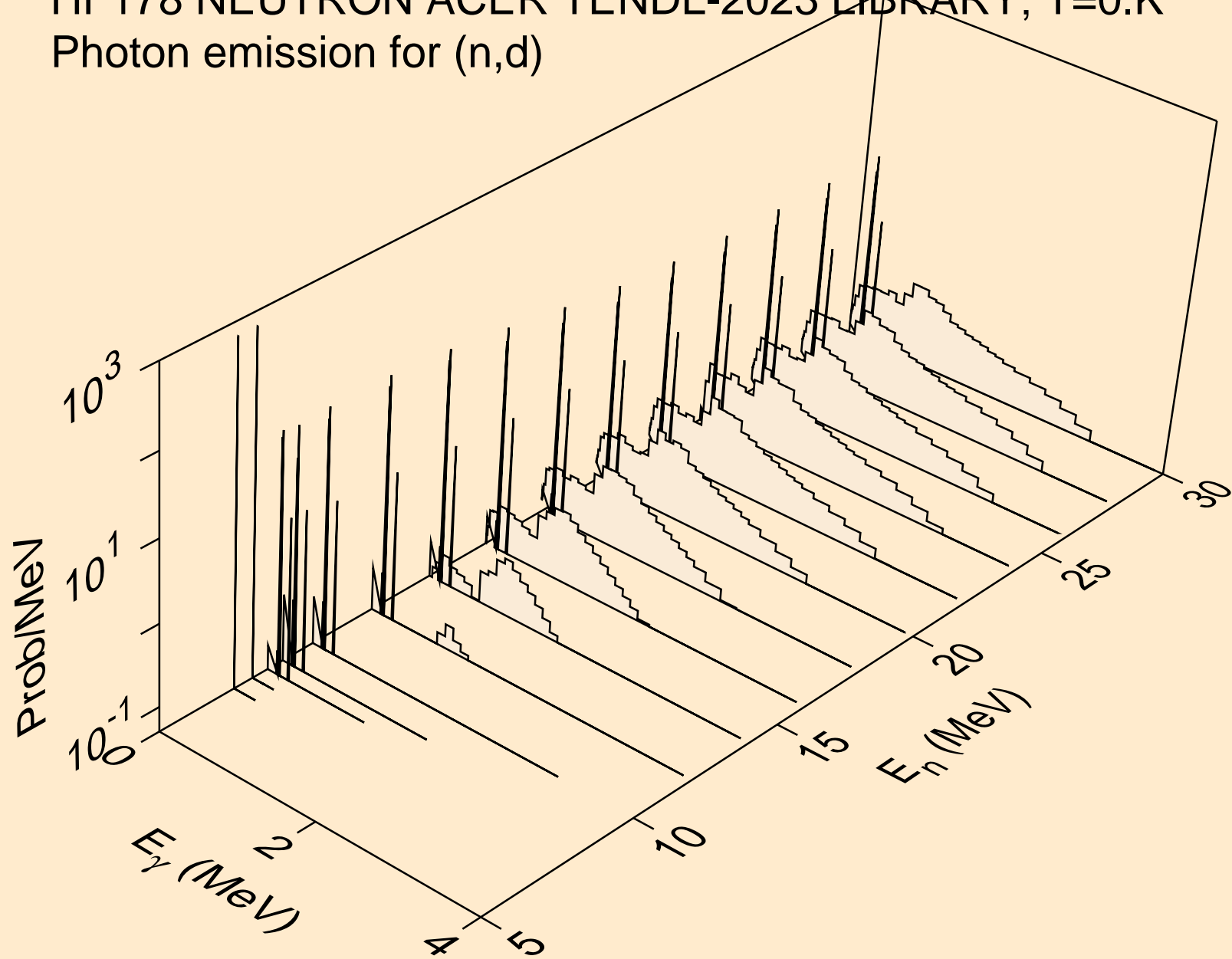


HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p)

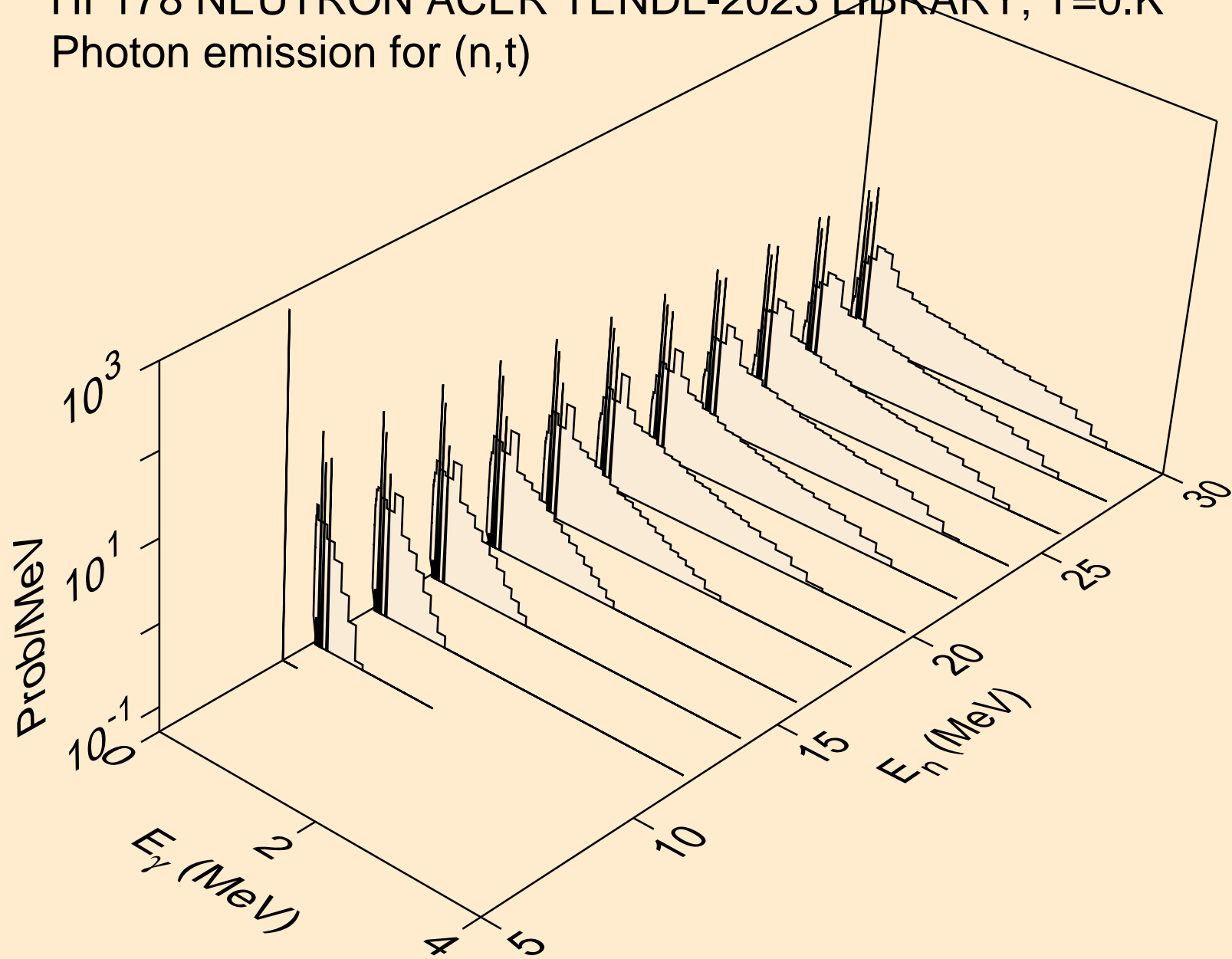




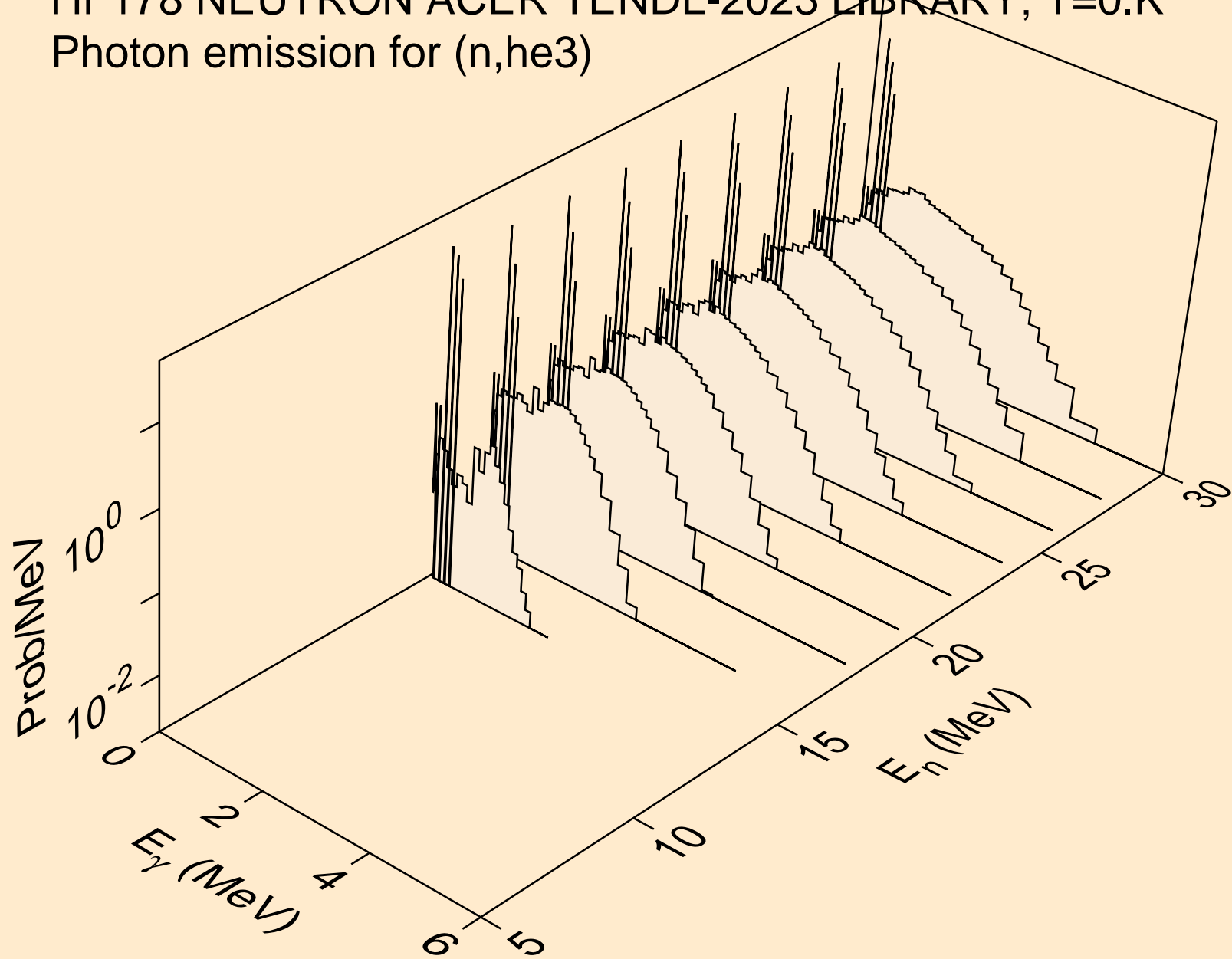
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,d)



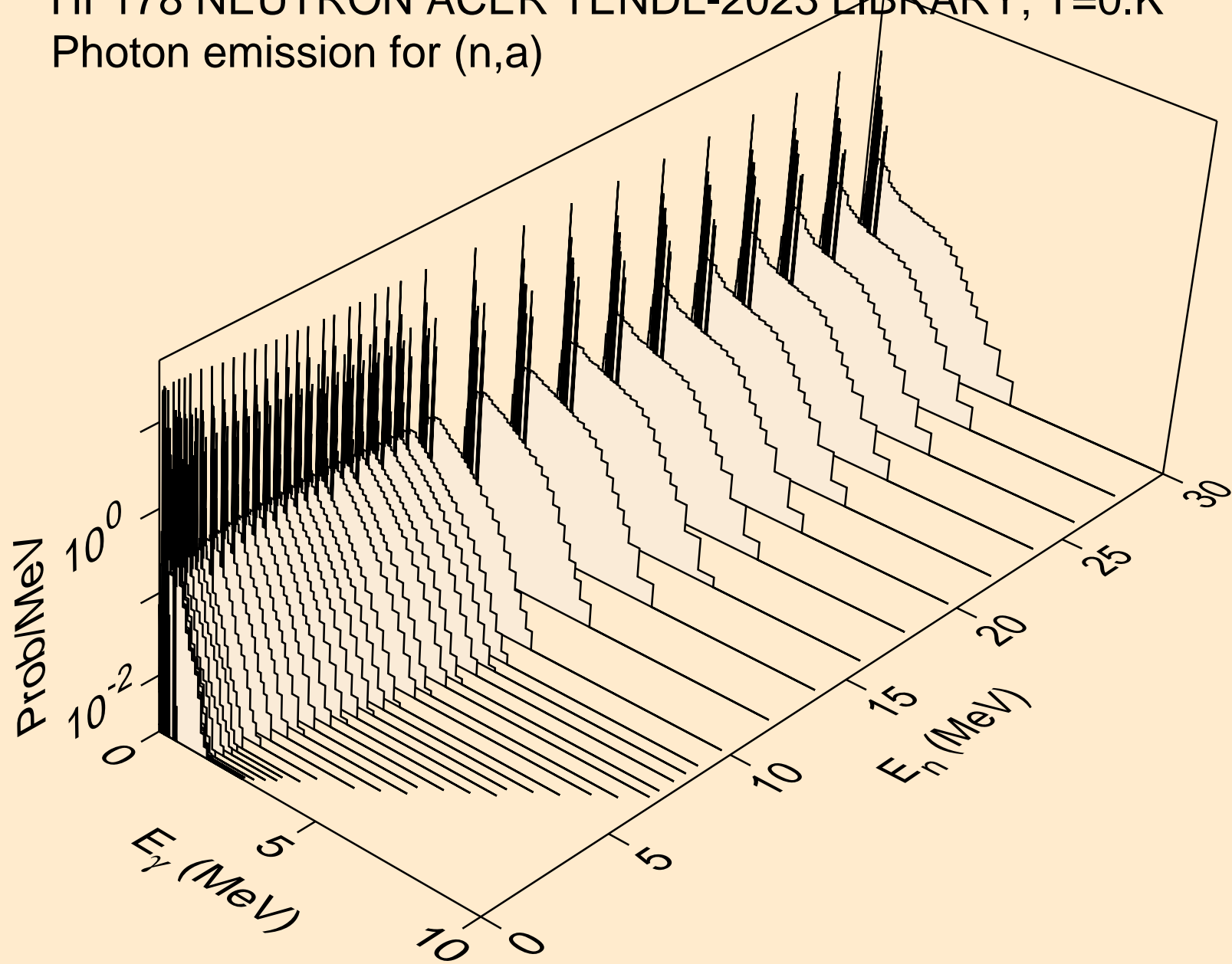
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,t)



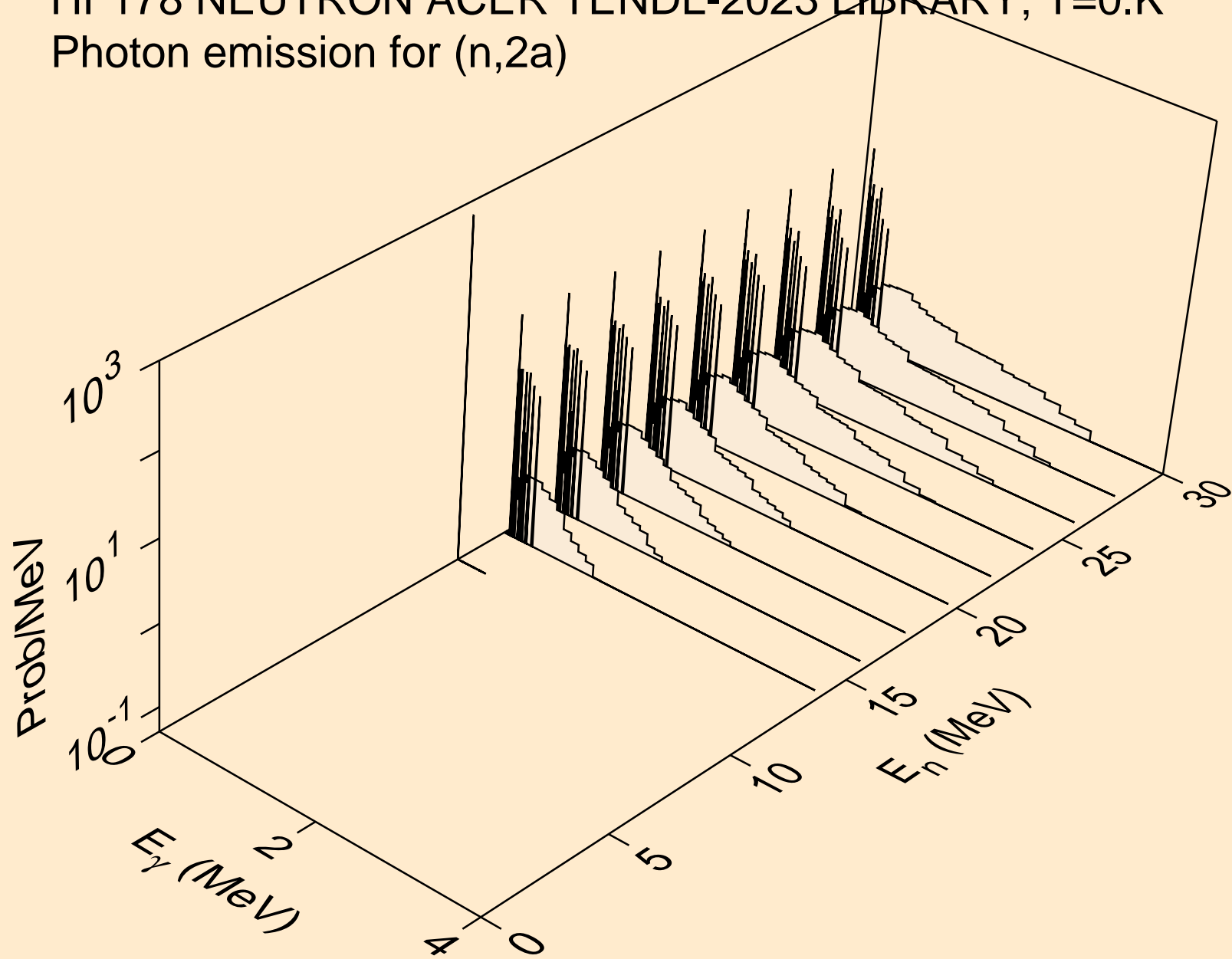
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,he3)



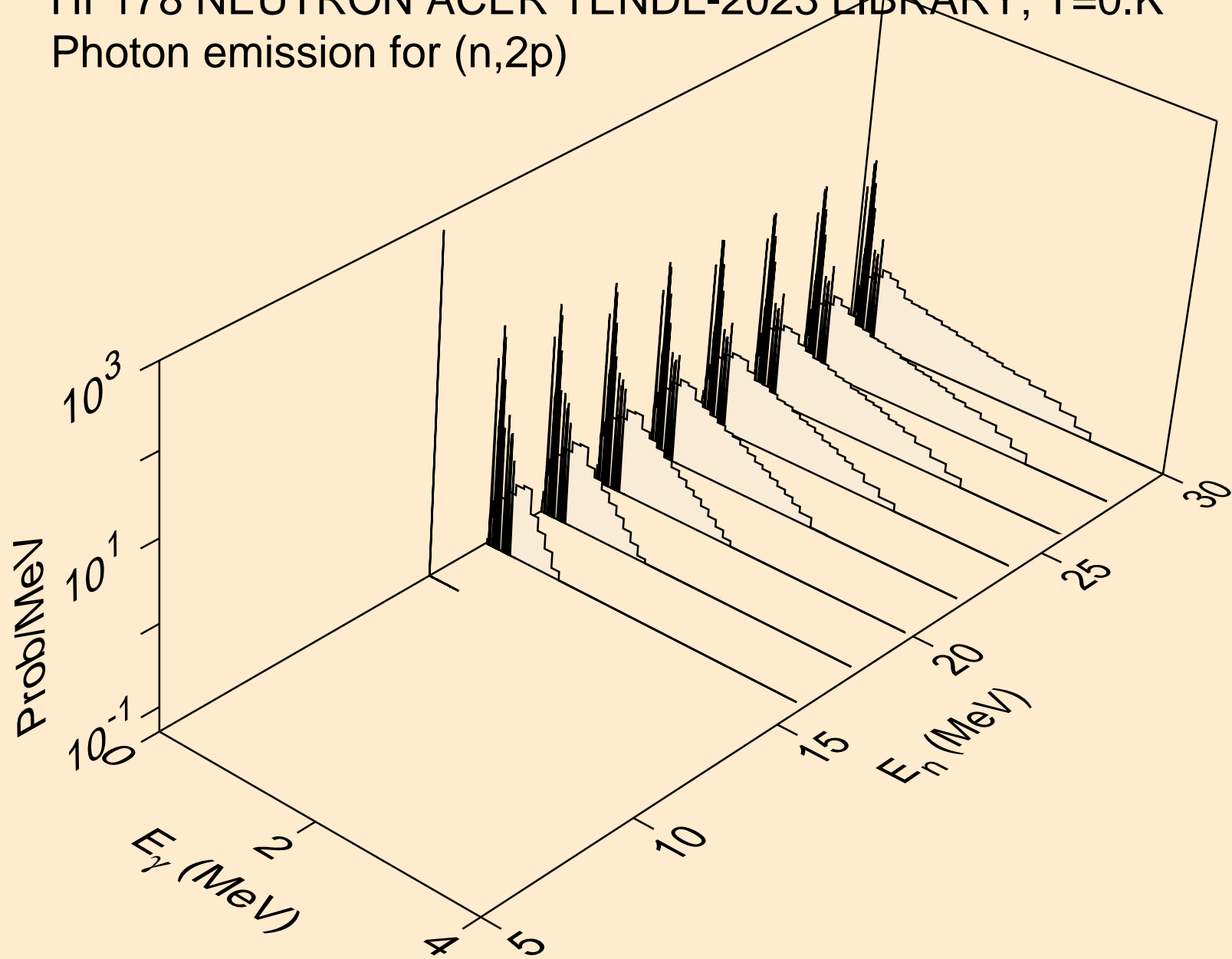
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,a)



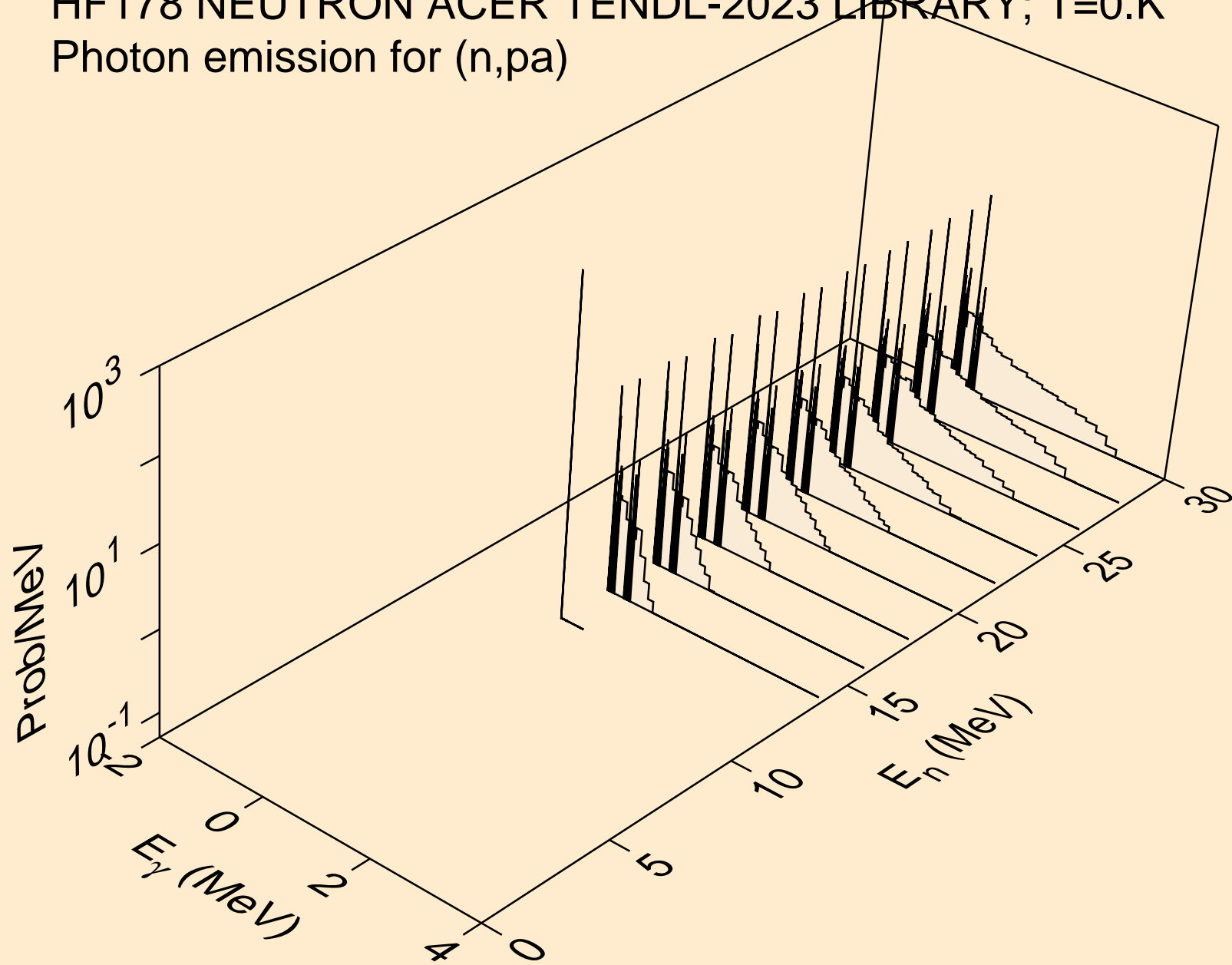
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2a)



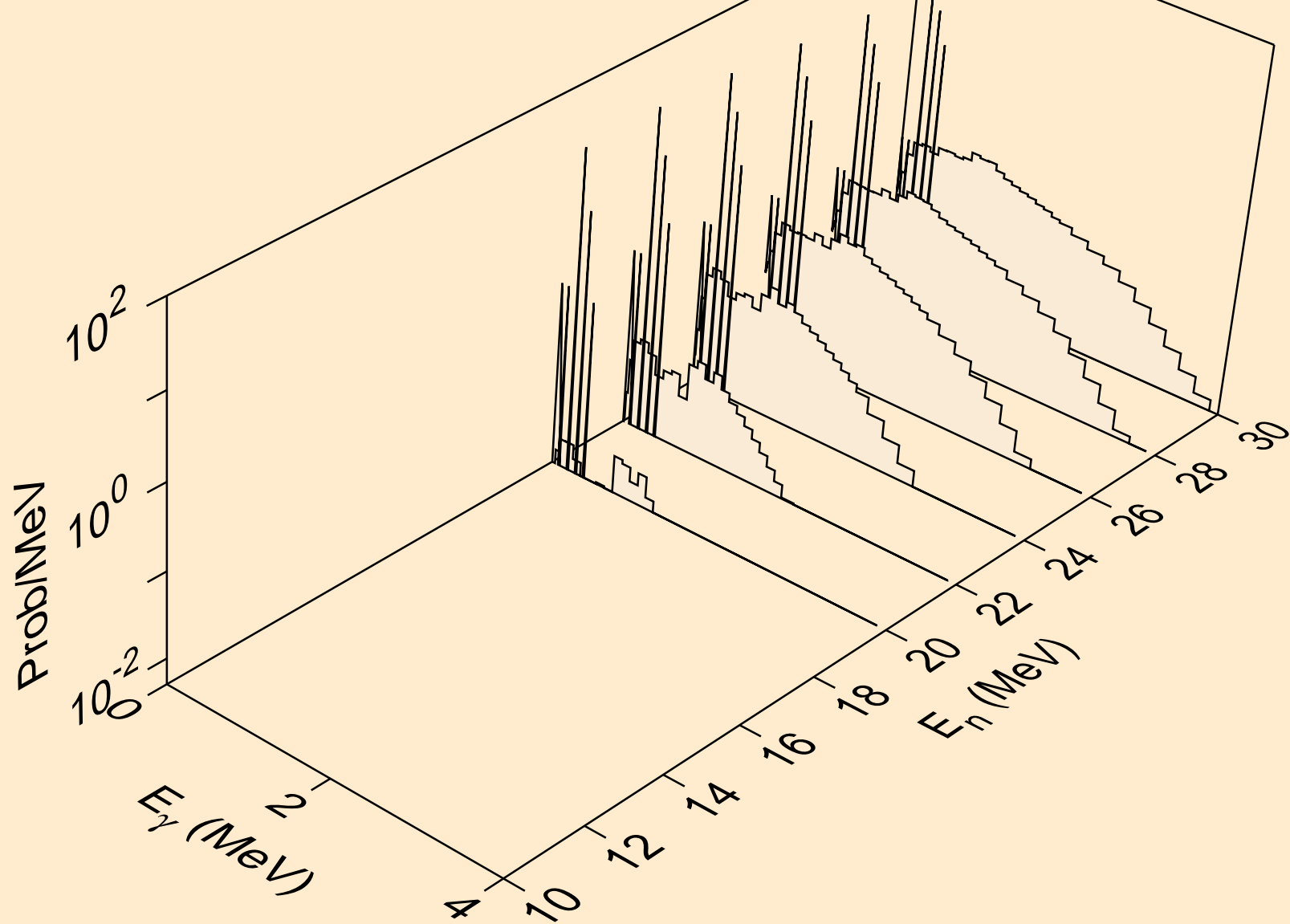
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2p)



HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pa)

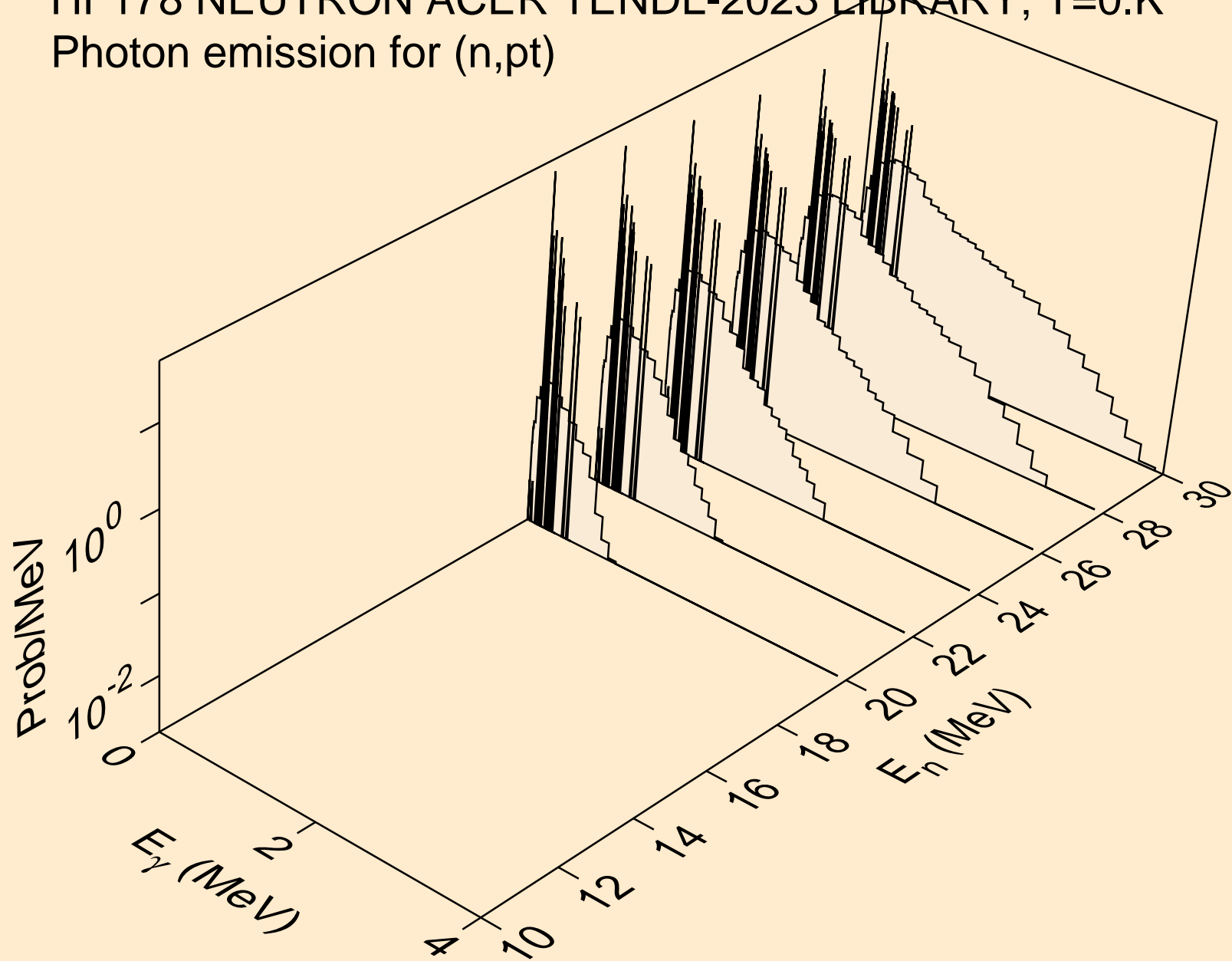


HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pd)

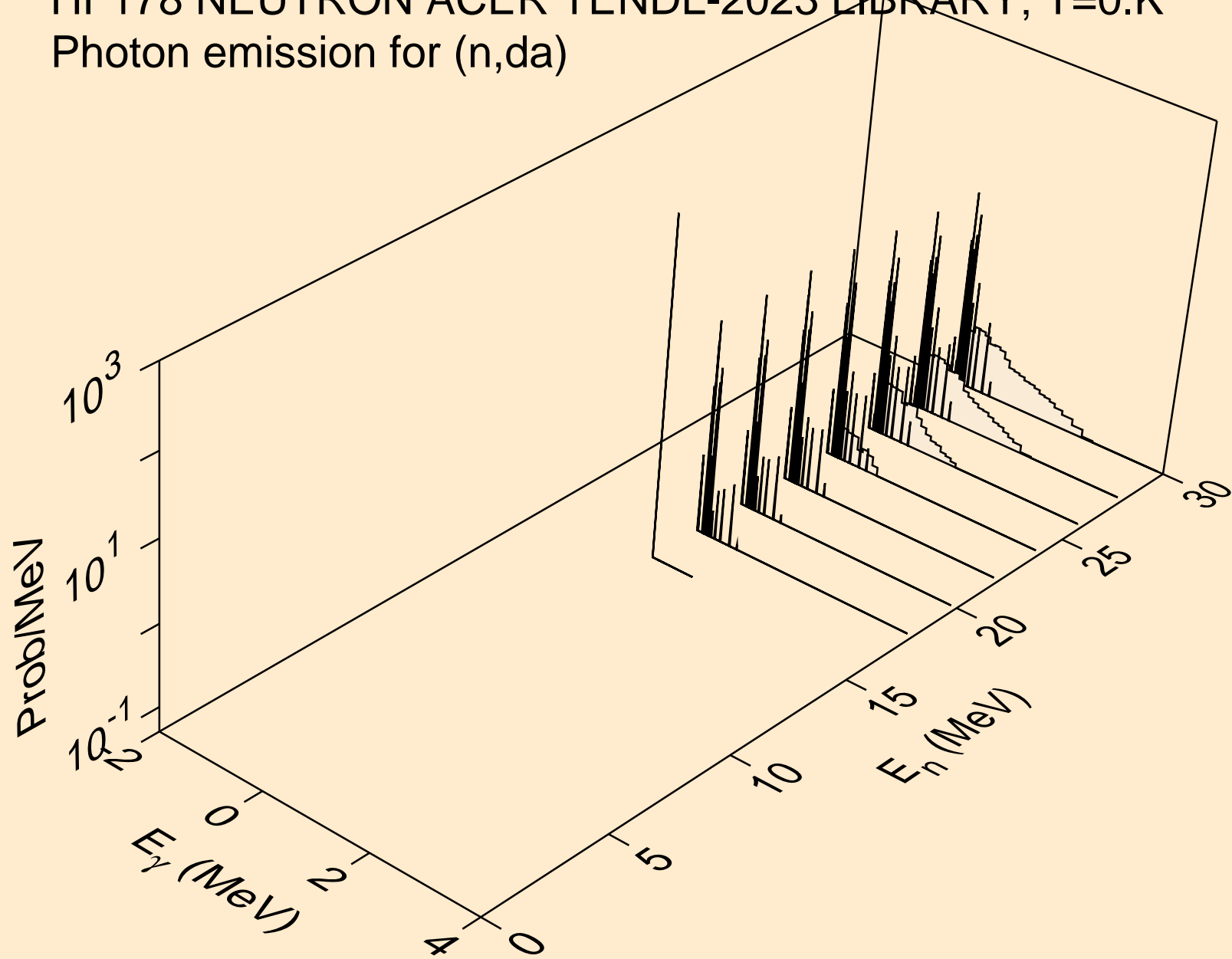




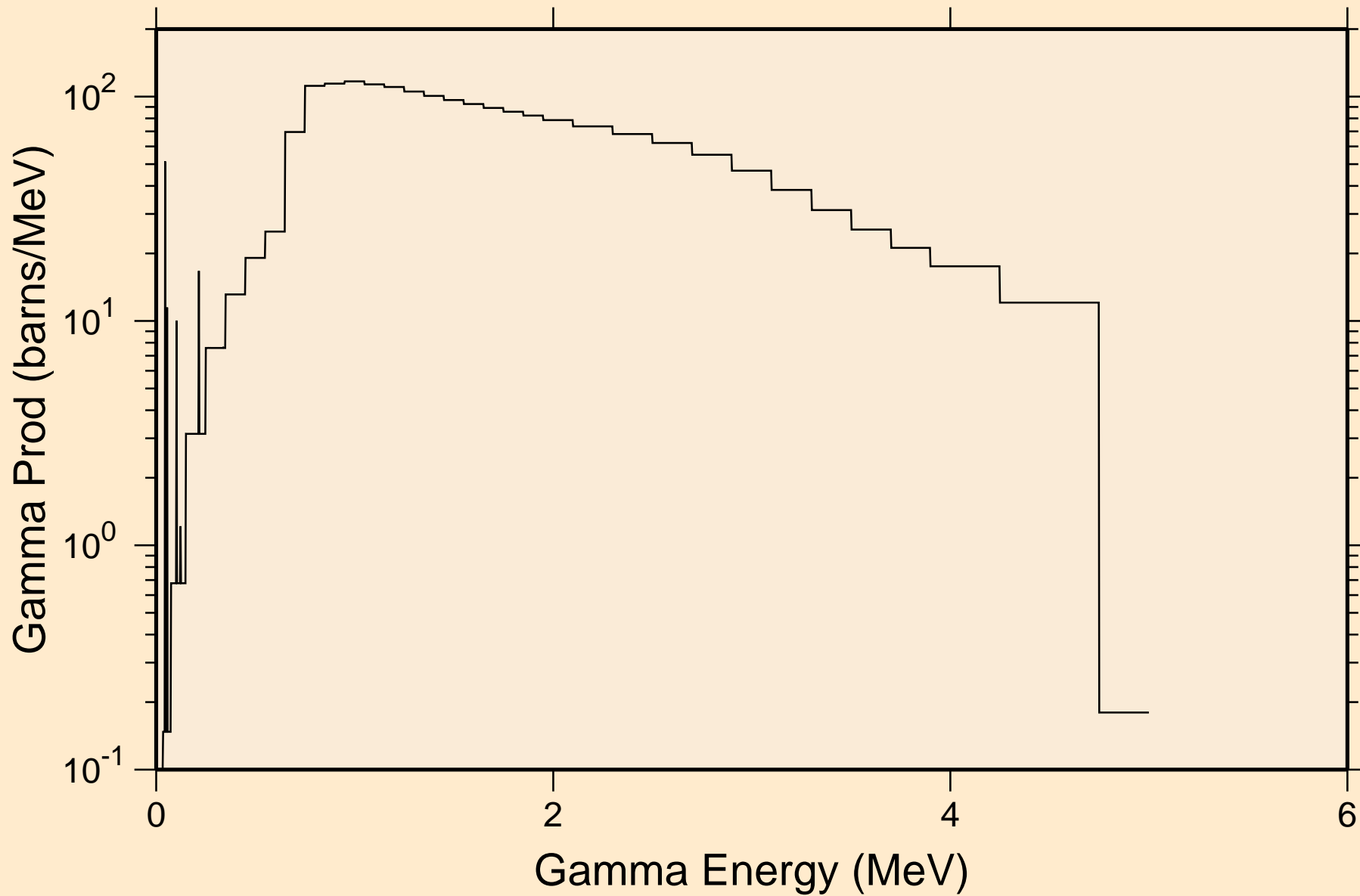
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pt)



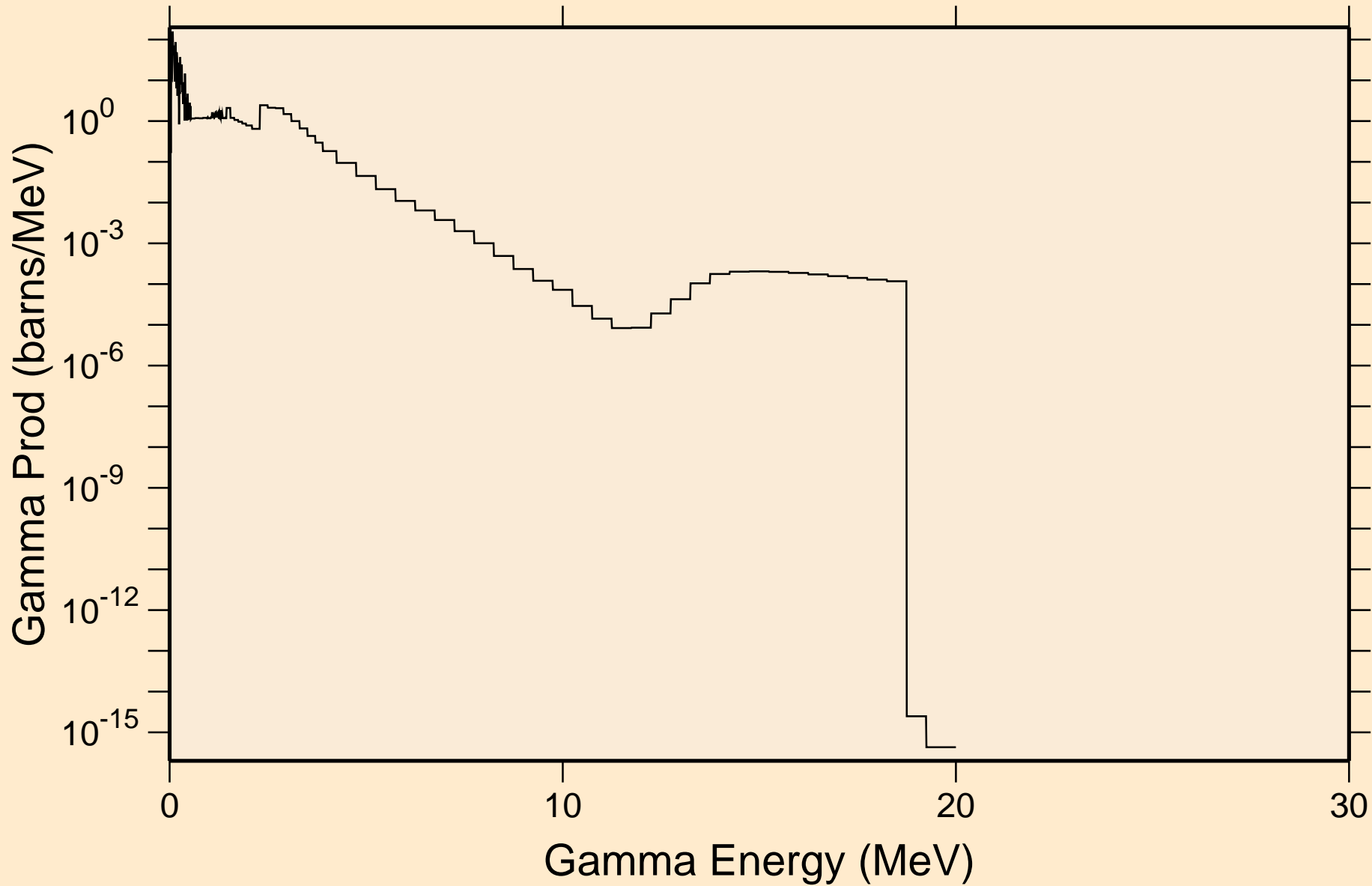
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)



HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
thermal capture photon spectrum

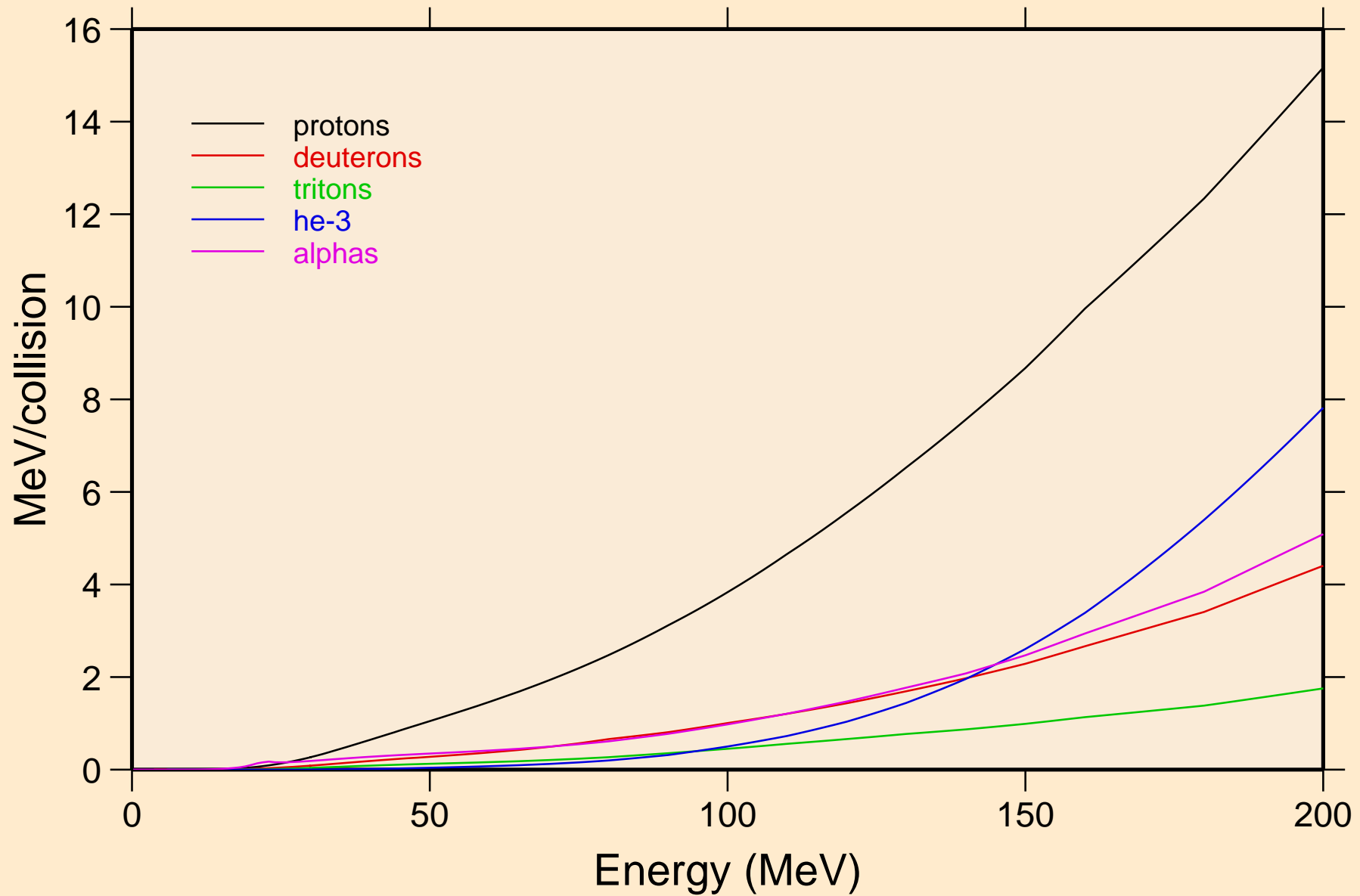


HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
14 MeV photon spectrum



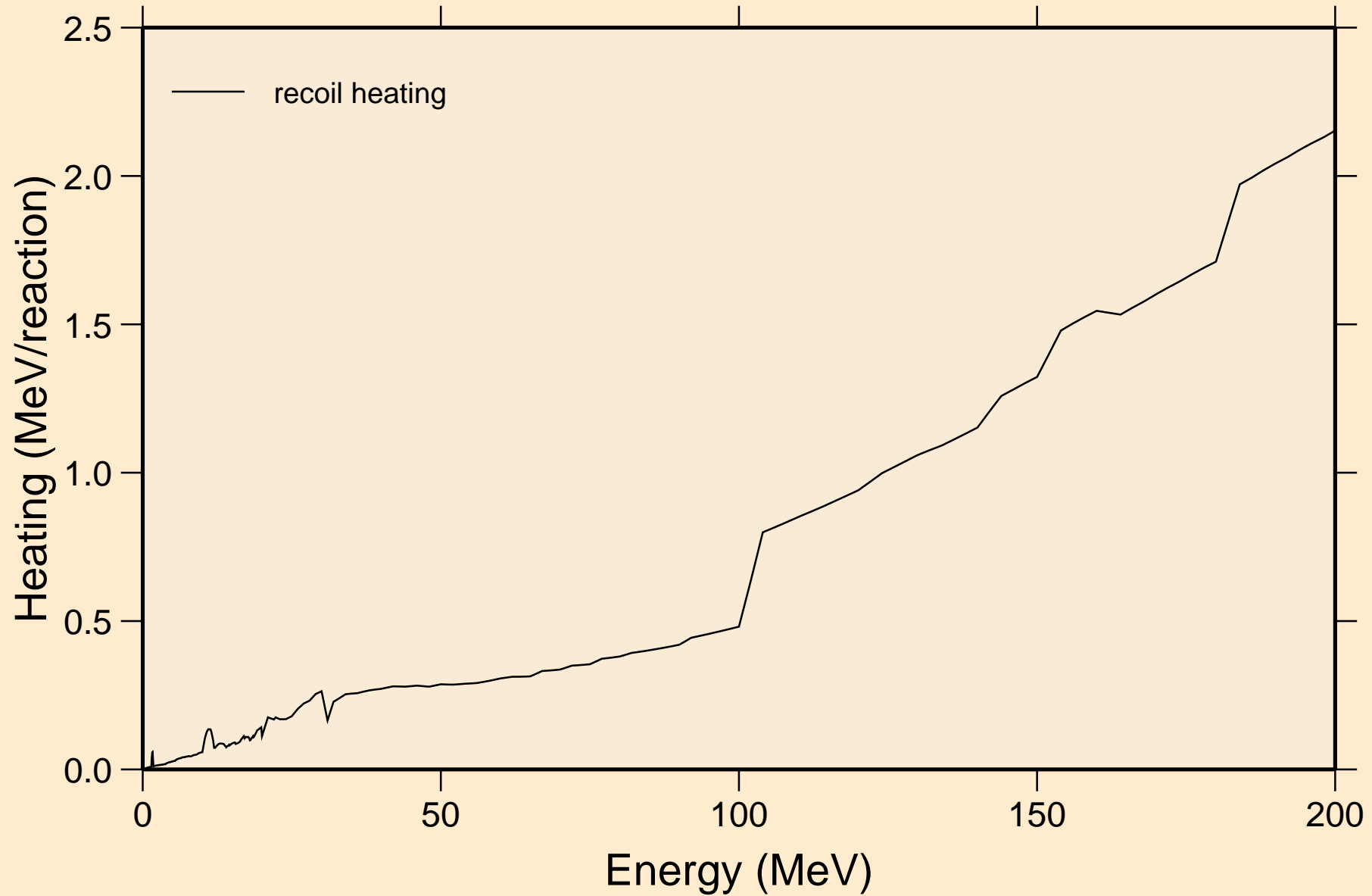
# HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Particle heating contributions



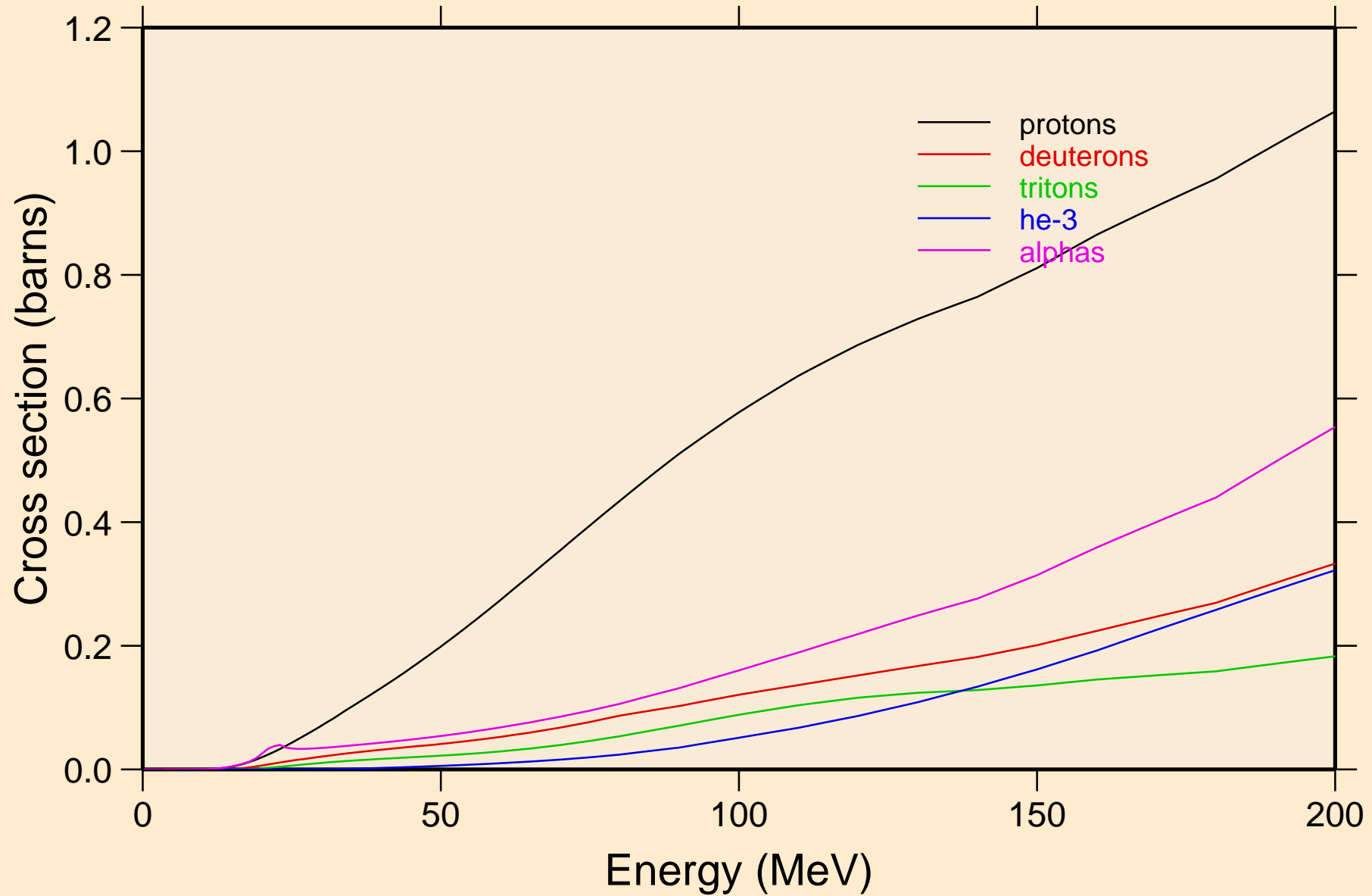
# HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Recoil Heating

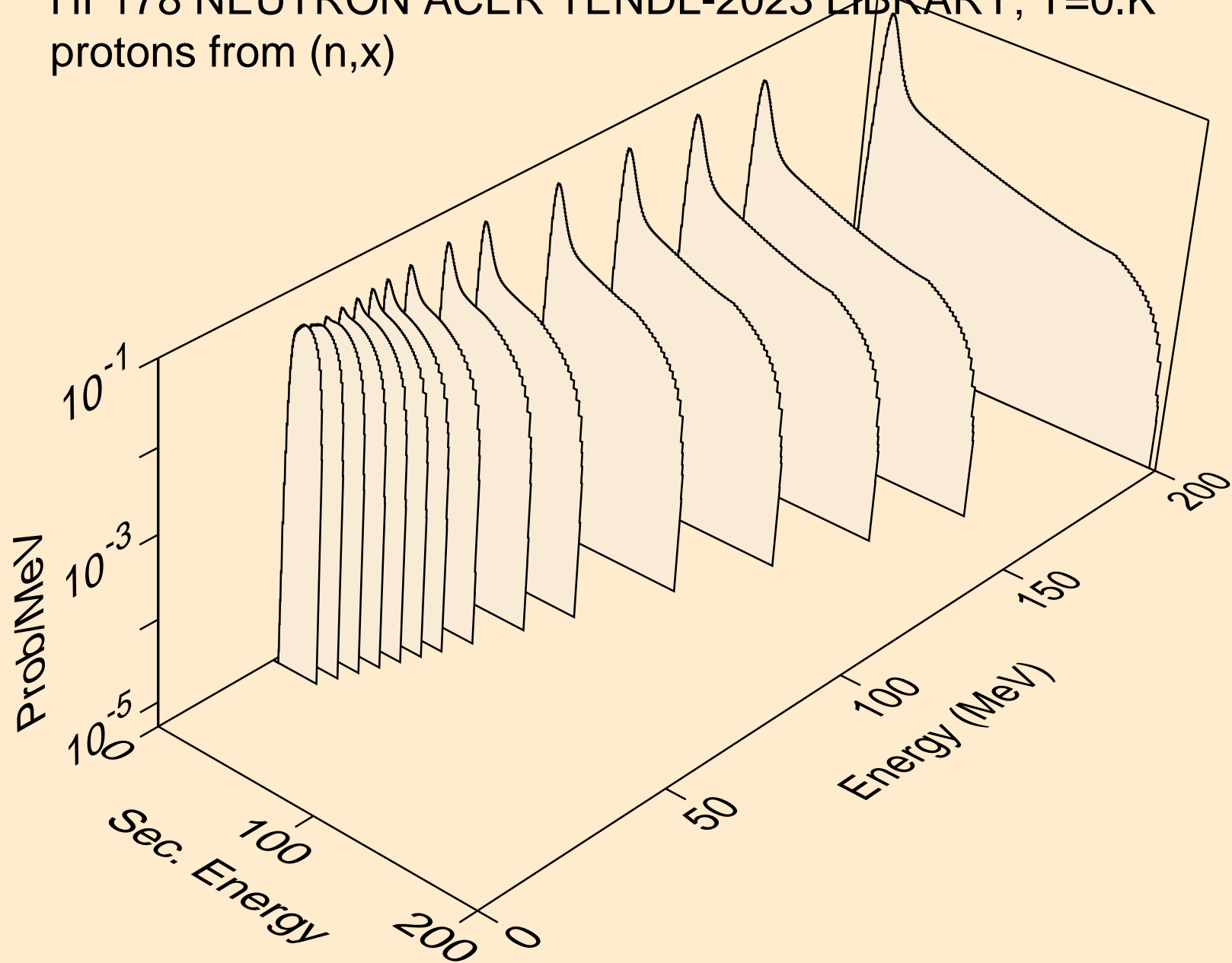


# HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Particle production cross sections

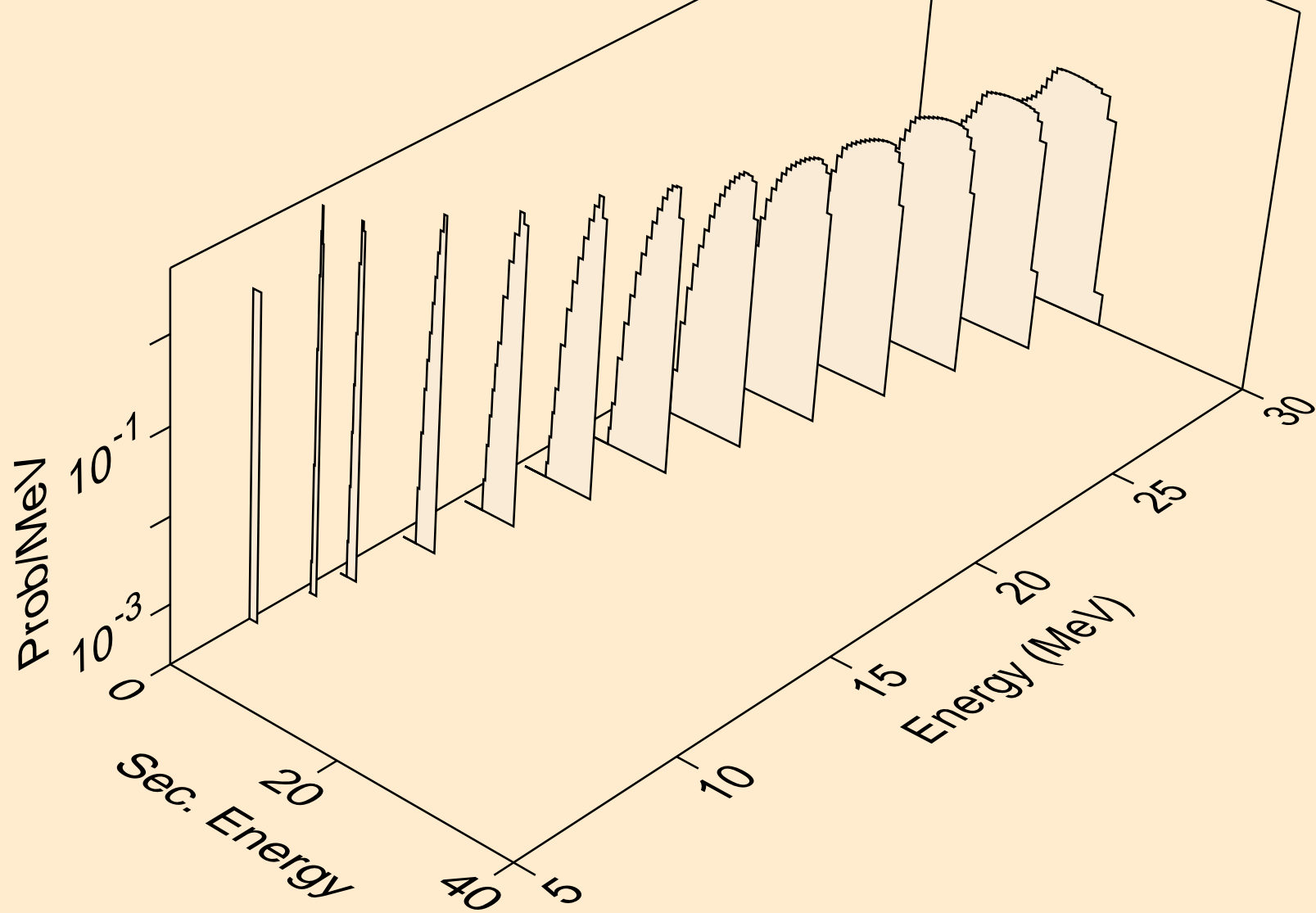


HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,x)

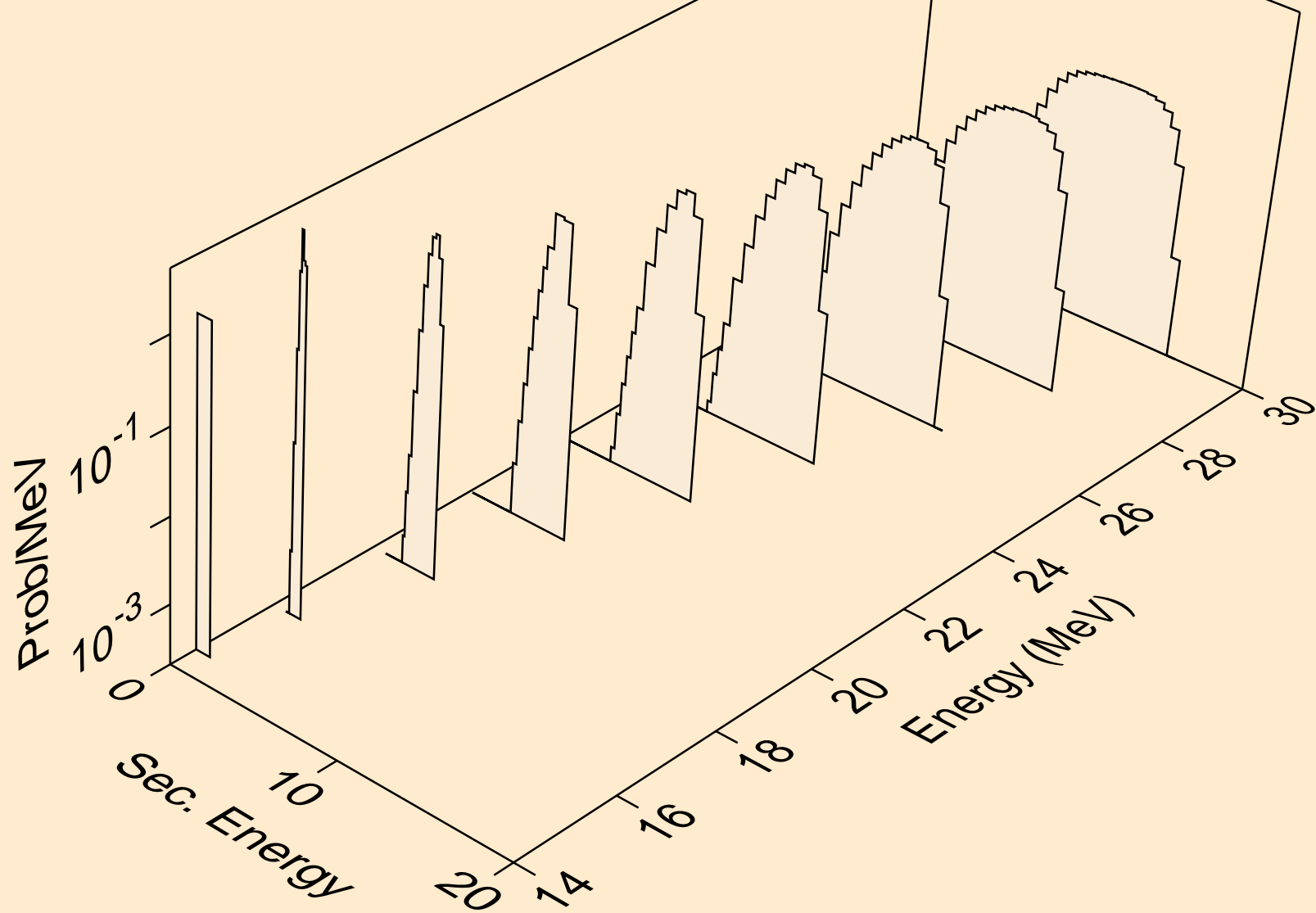




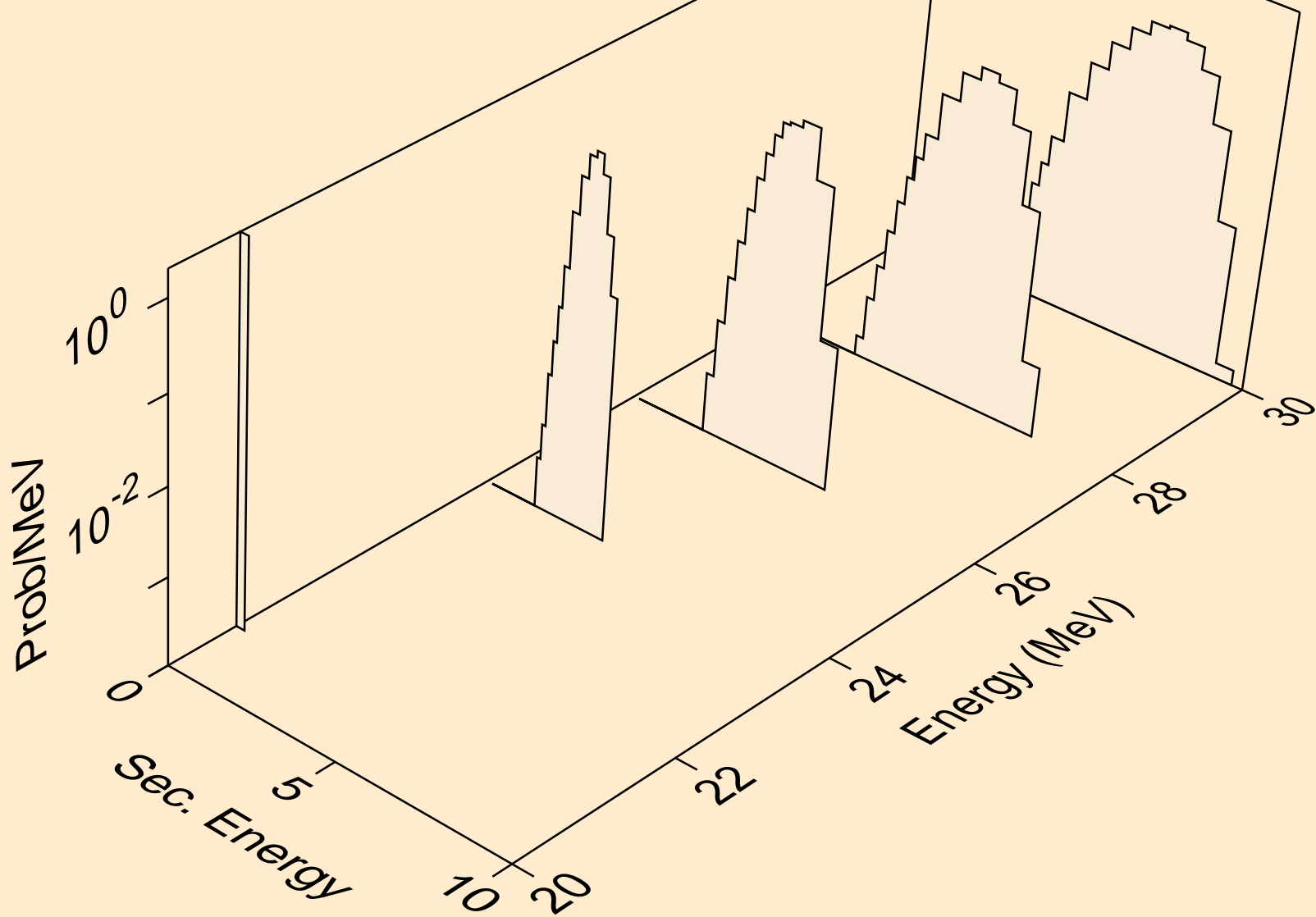
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,n\*)p



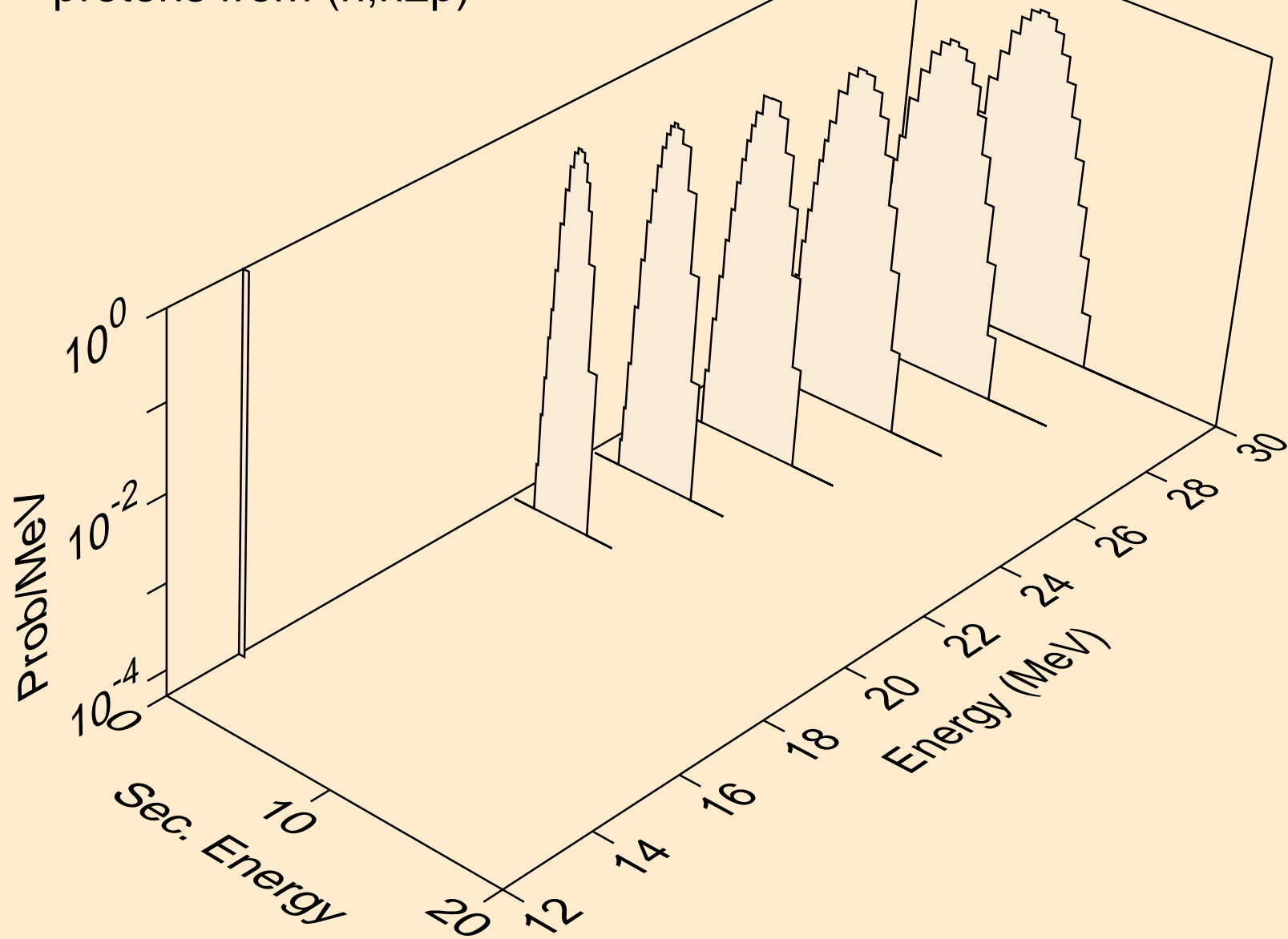
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,2np)



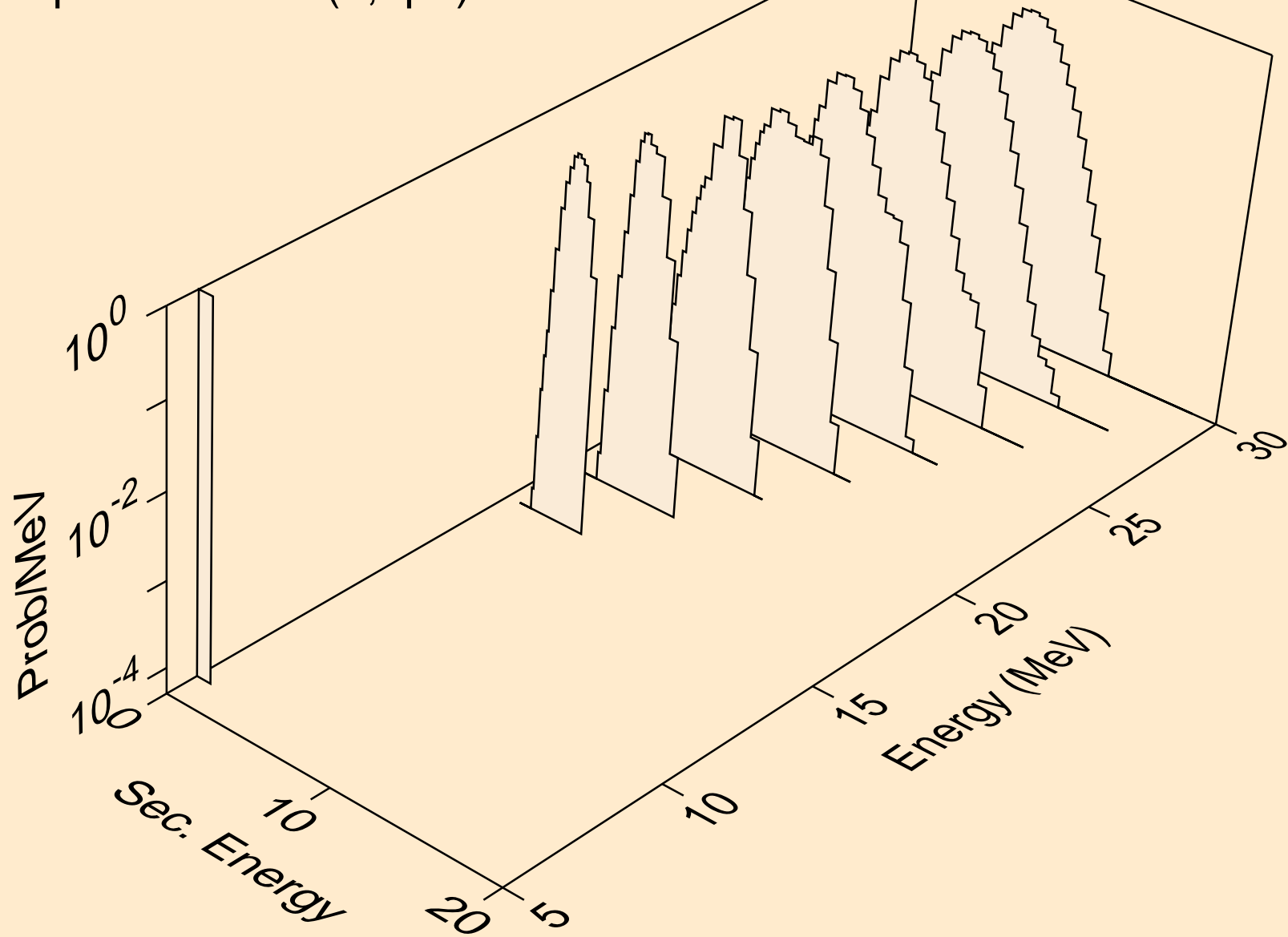
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,3np)



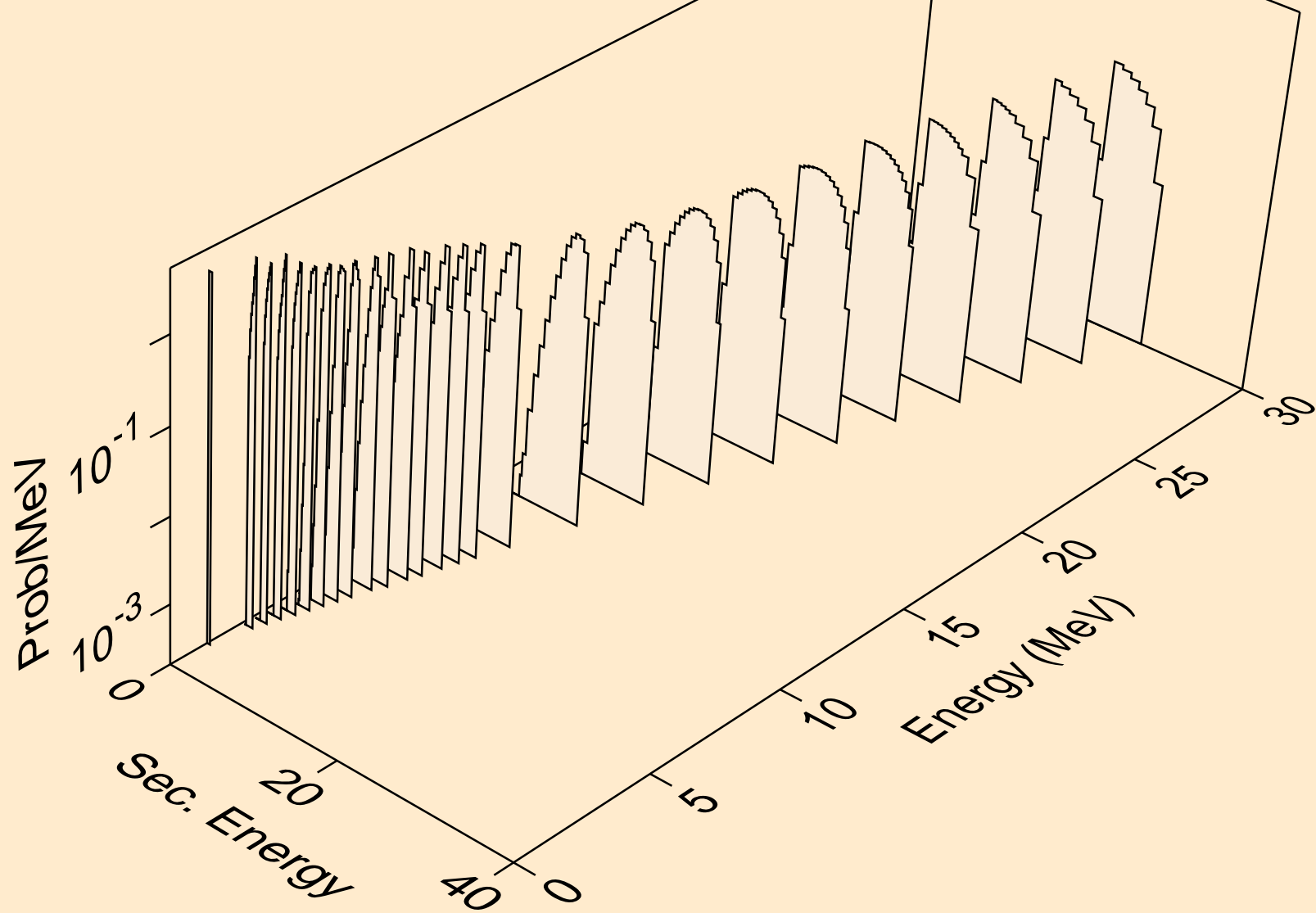
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,n2p)



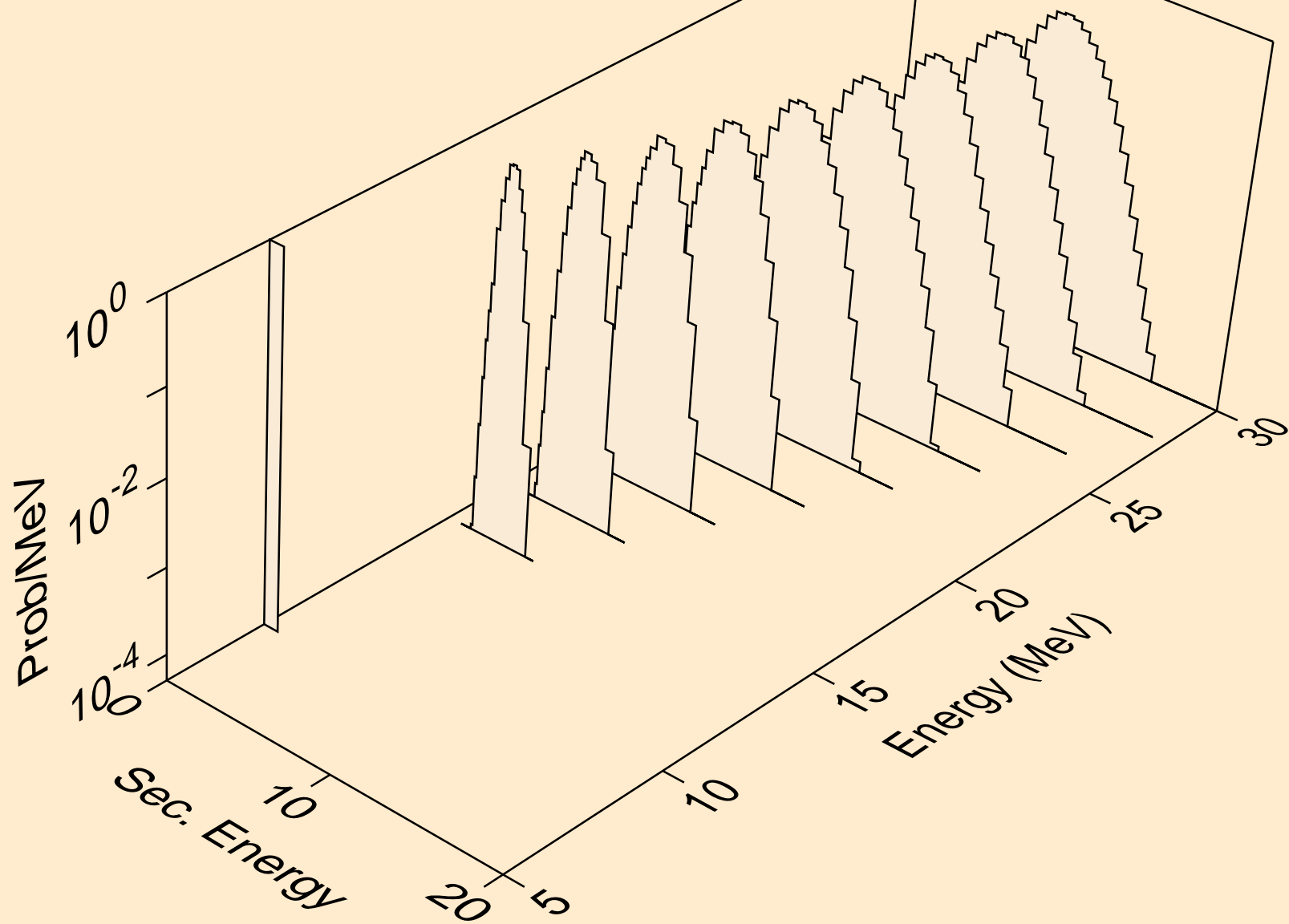
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,npa)



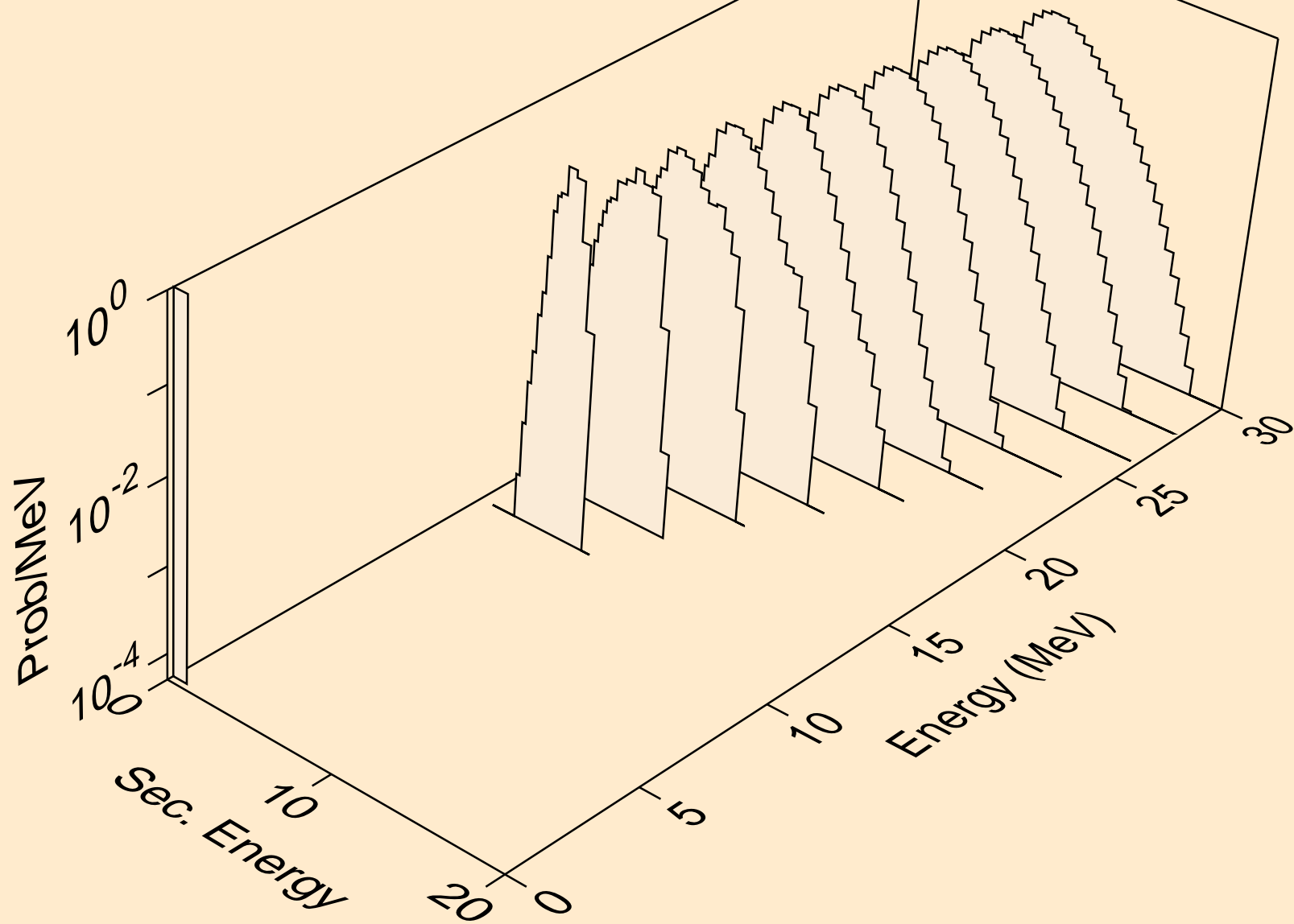
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,p)



HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,2p)

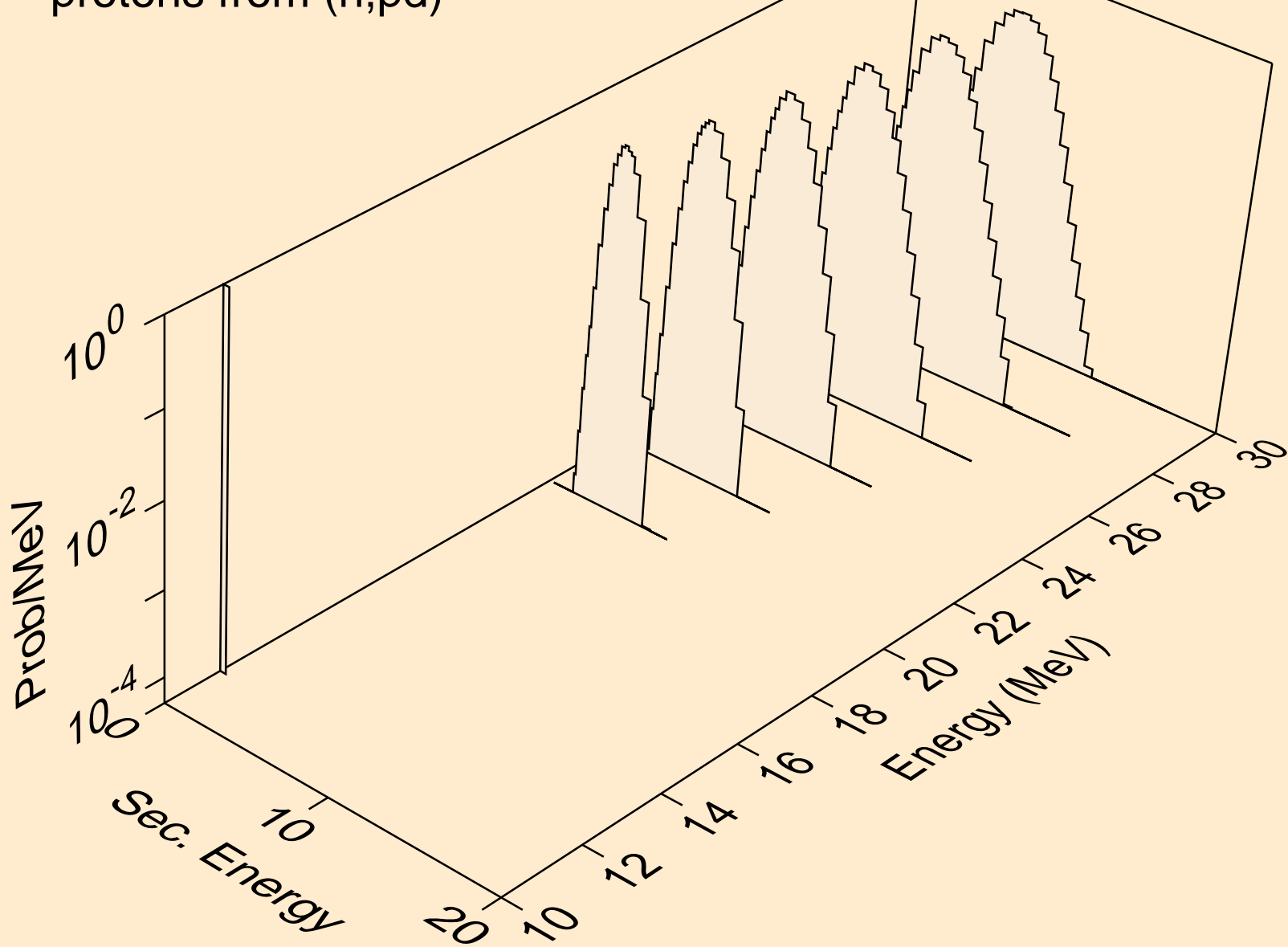


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protons from (n,p)

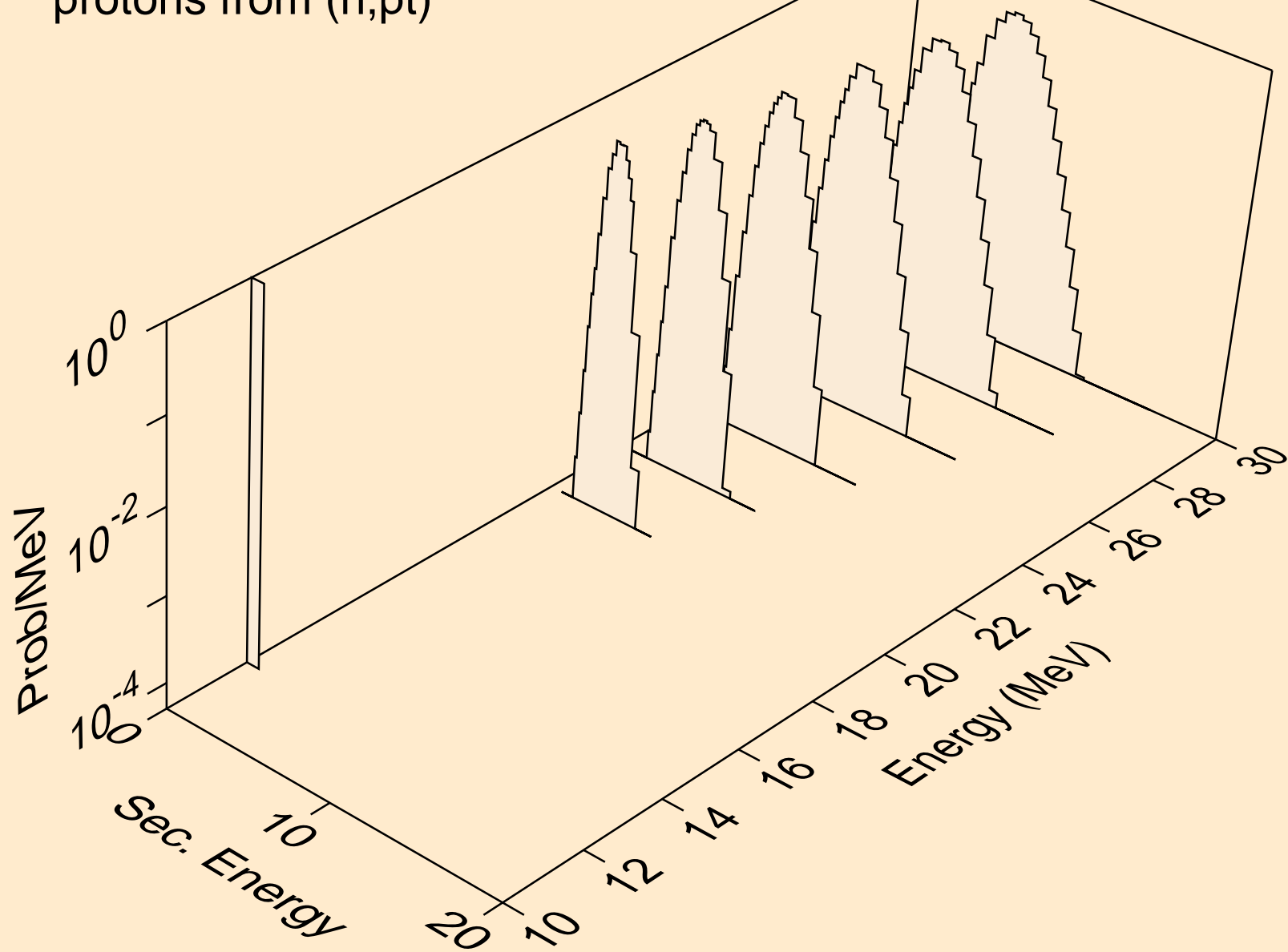




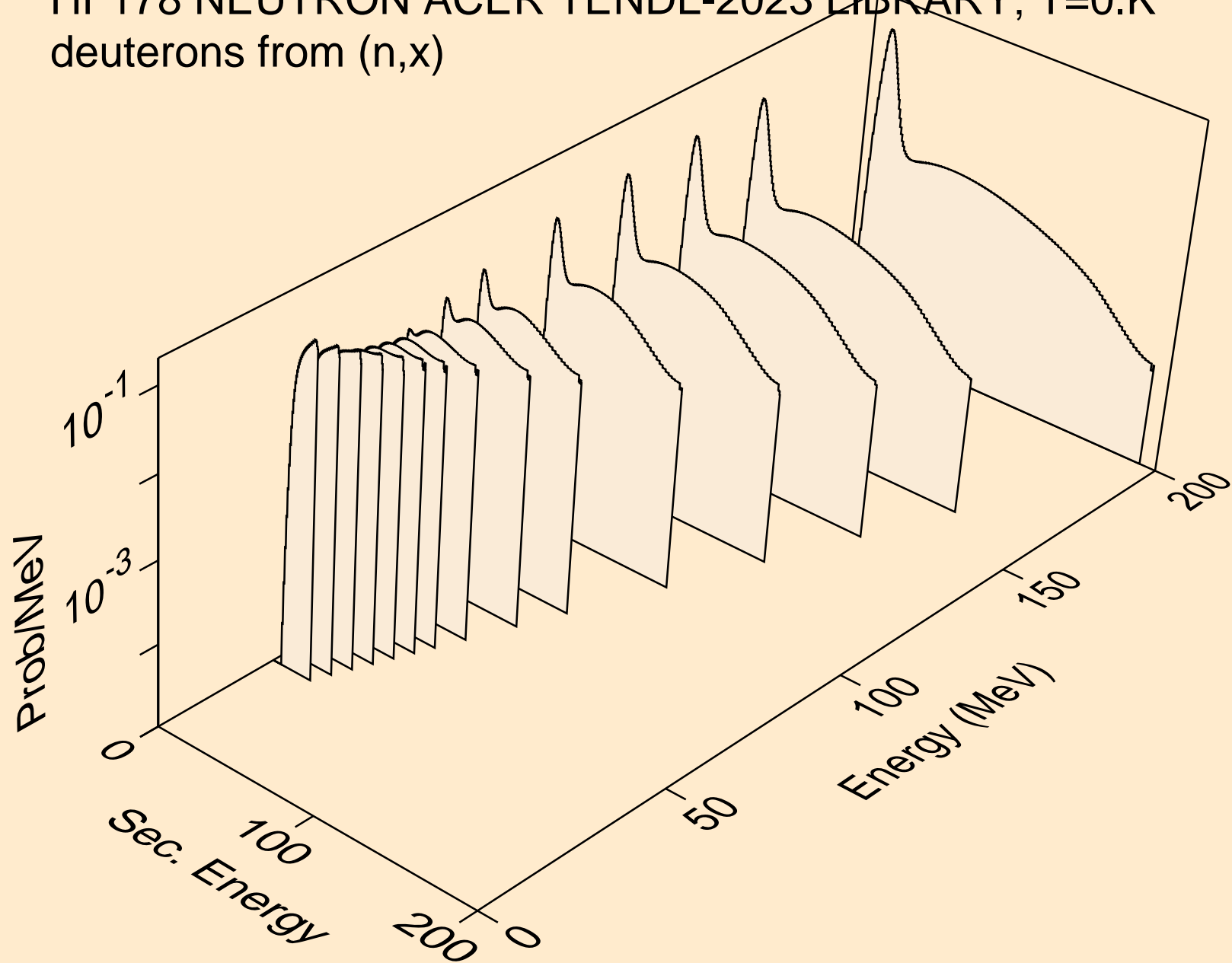
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,pd)



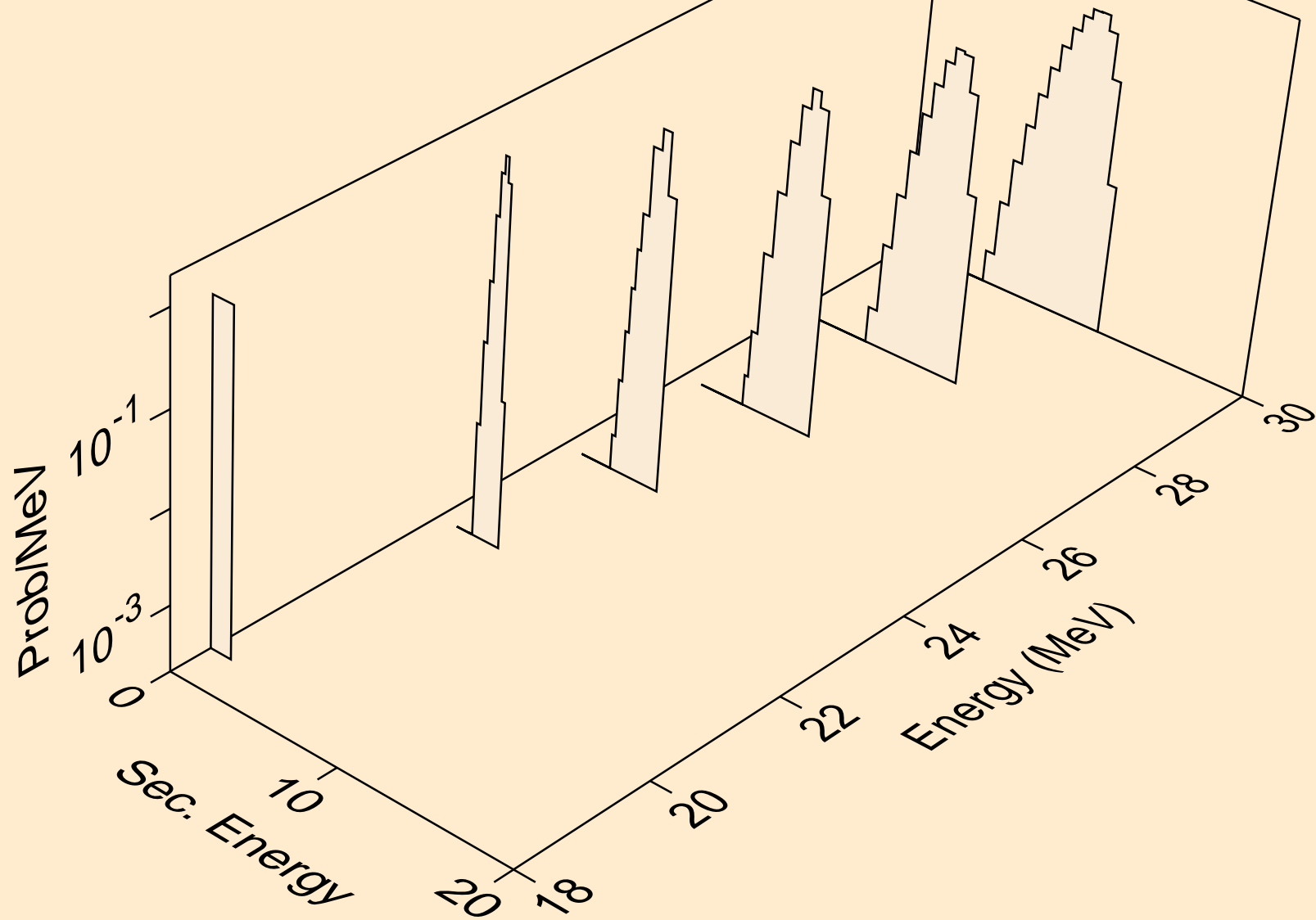
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,pt)



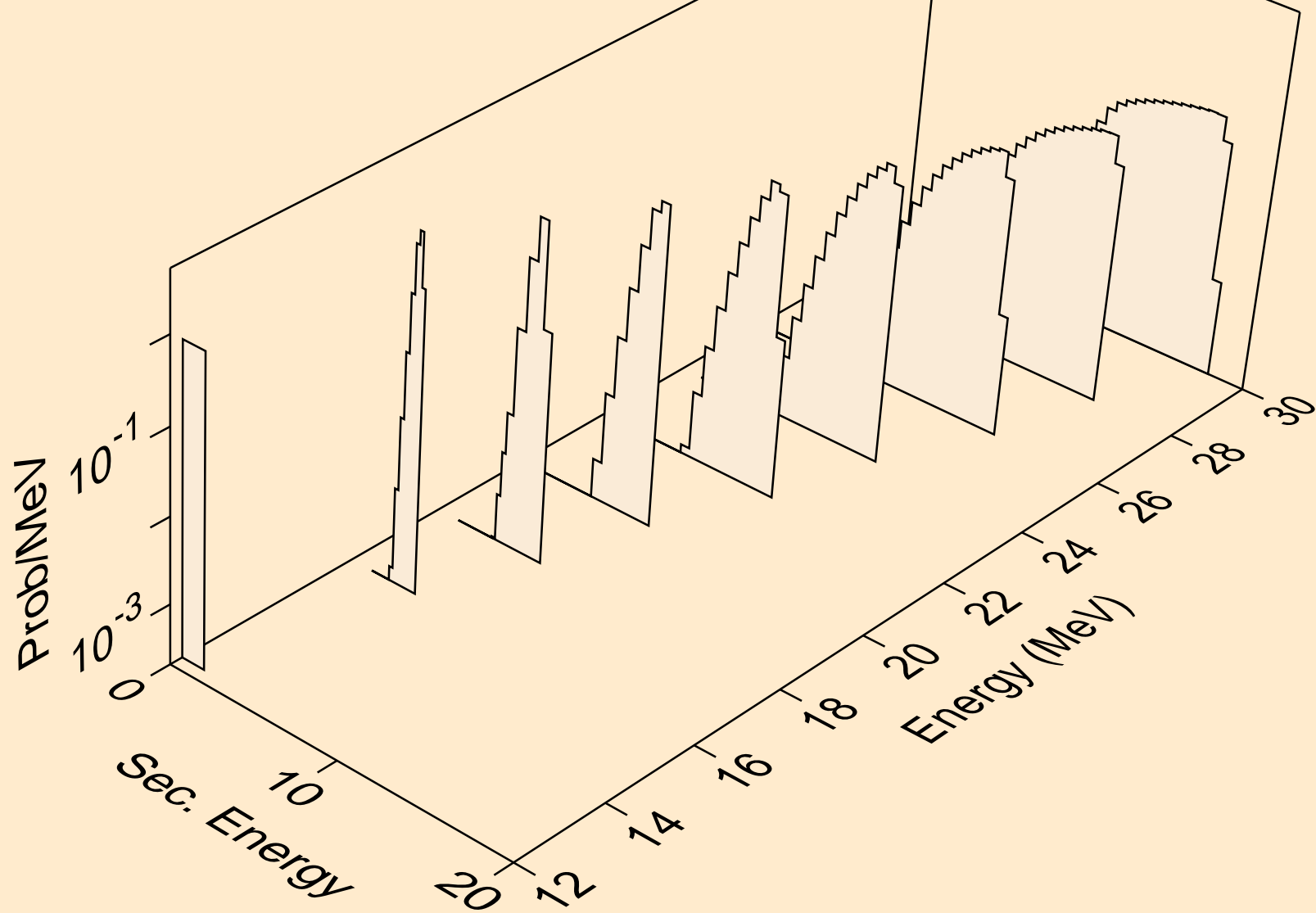
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,x)



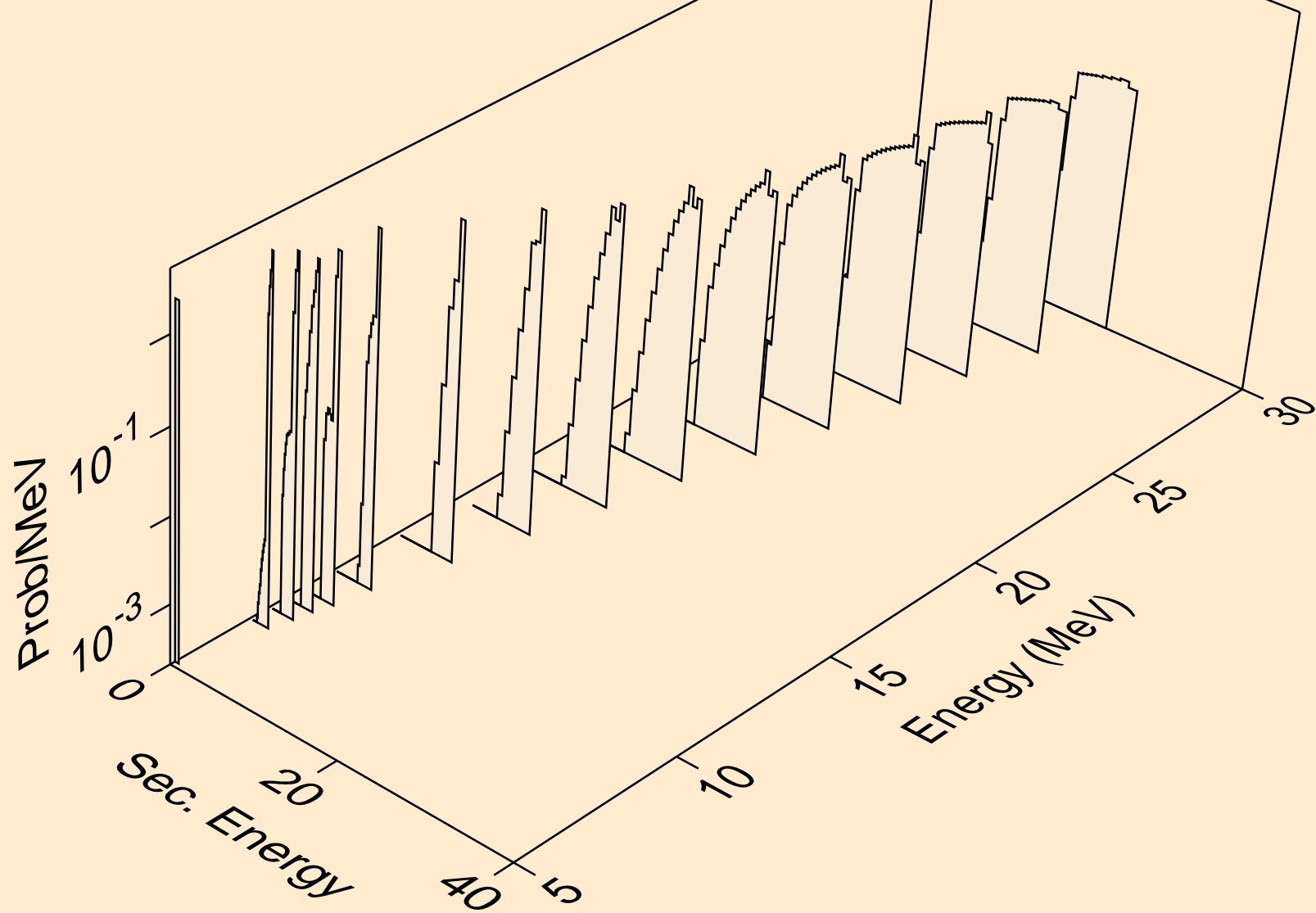
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,2nd)



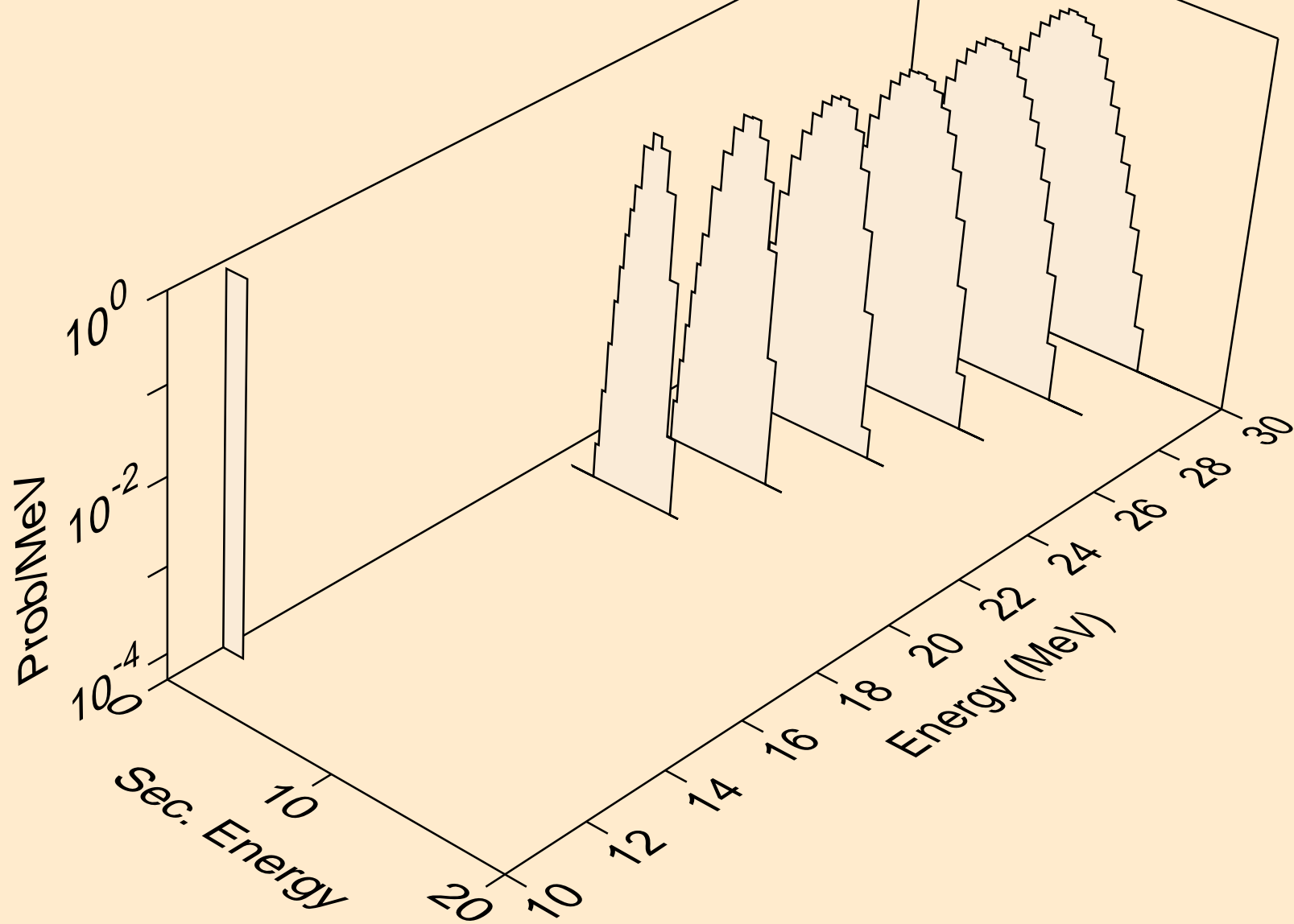
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,n\*)d



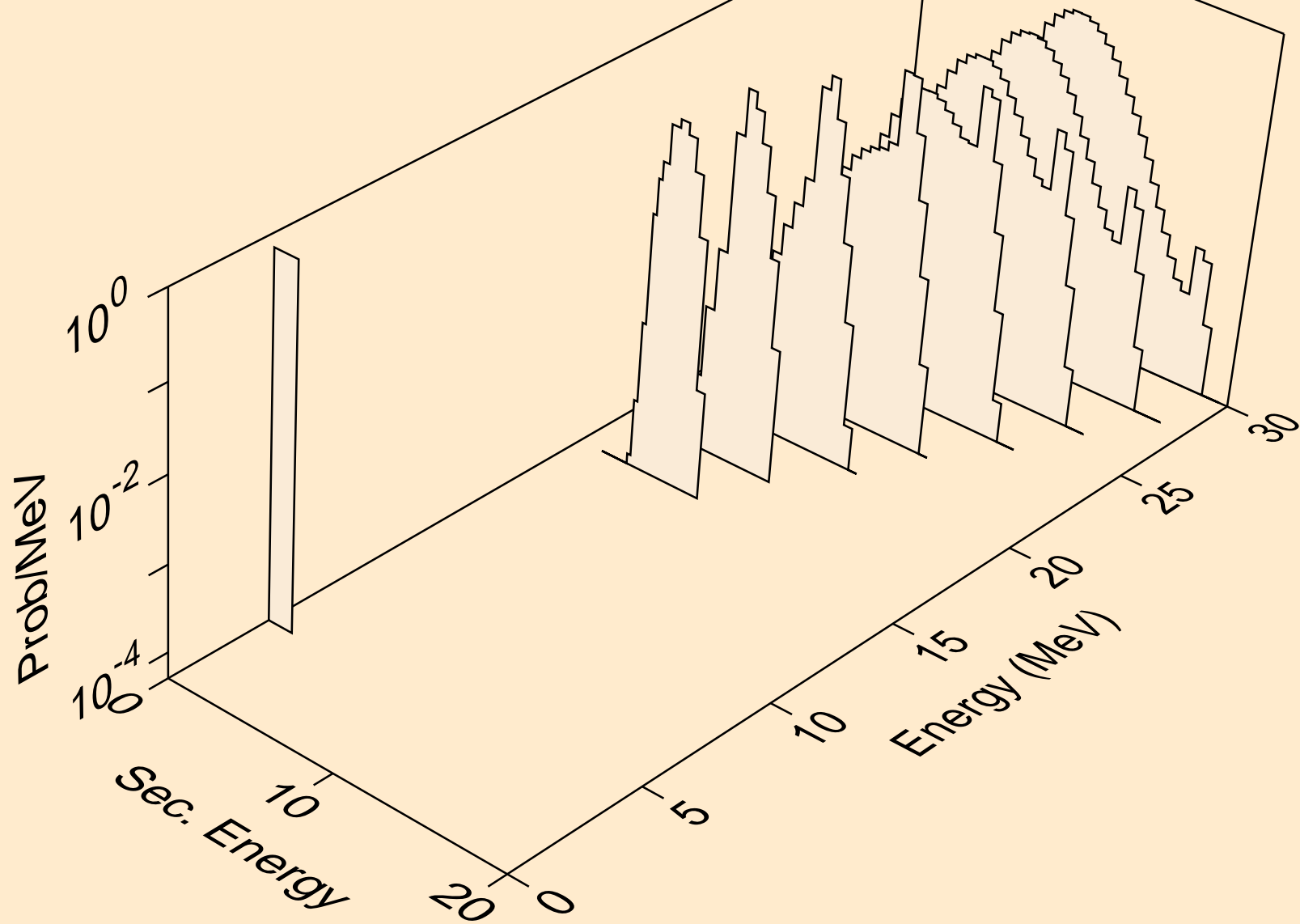
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,d)



HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,pd)

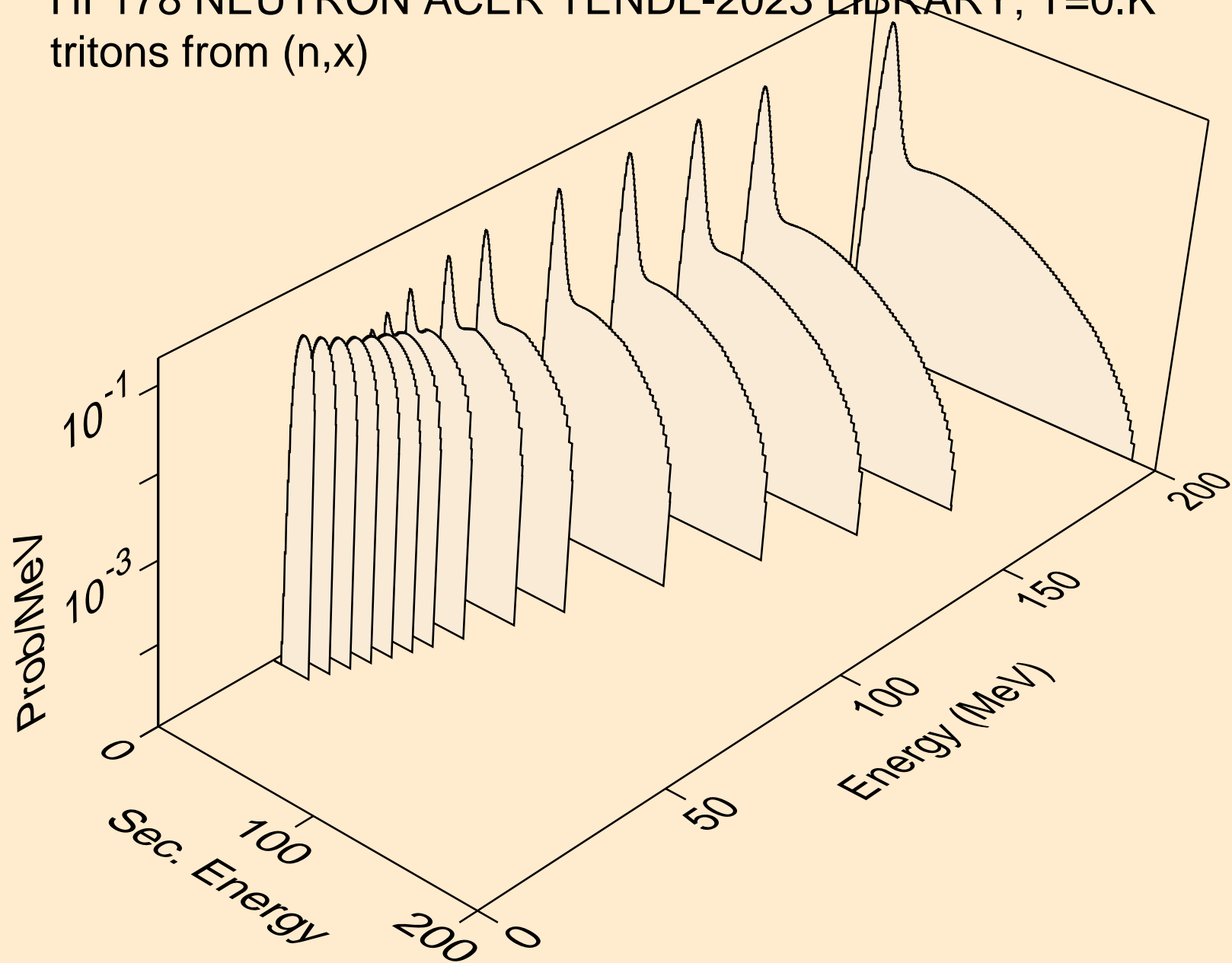


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deuterons from (n,da)

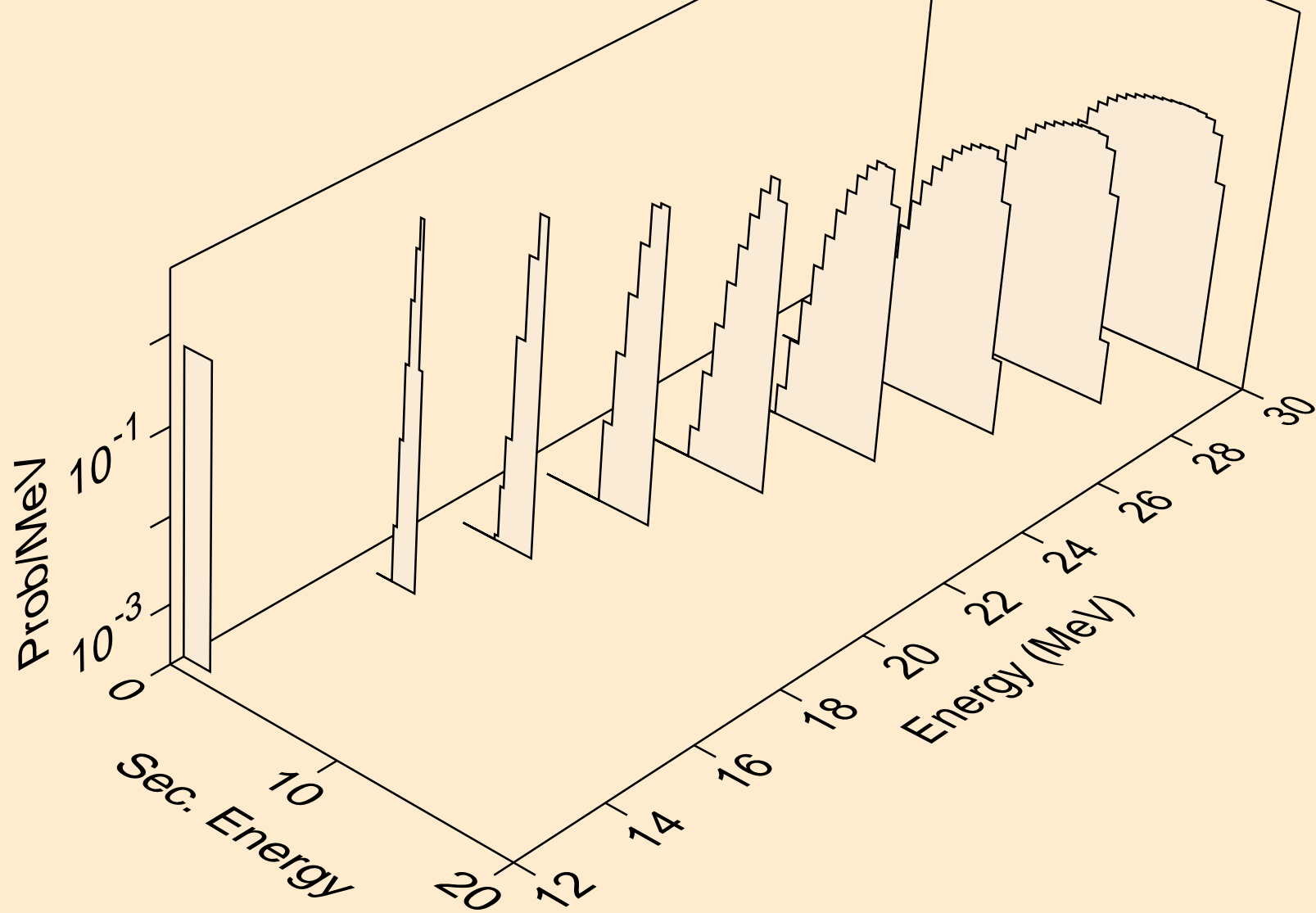




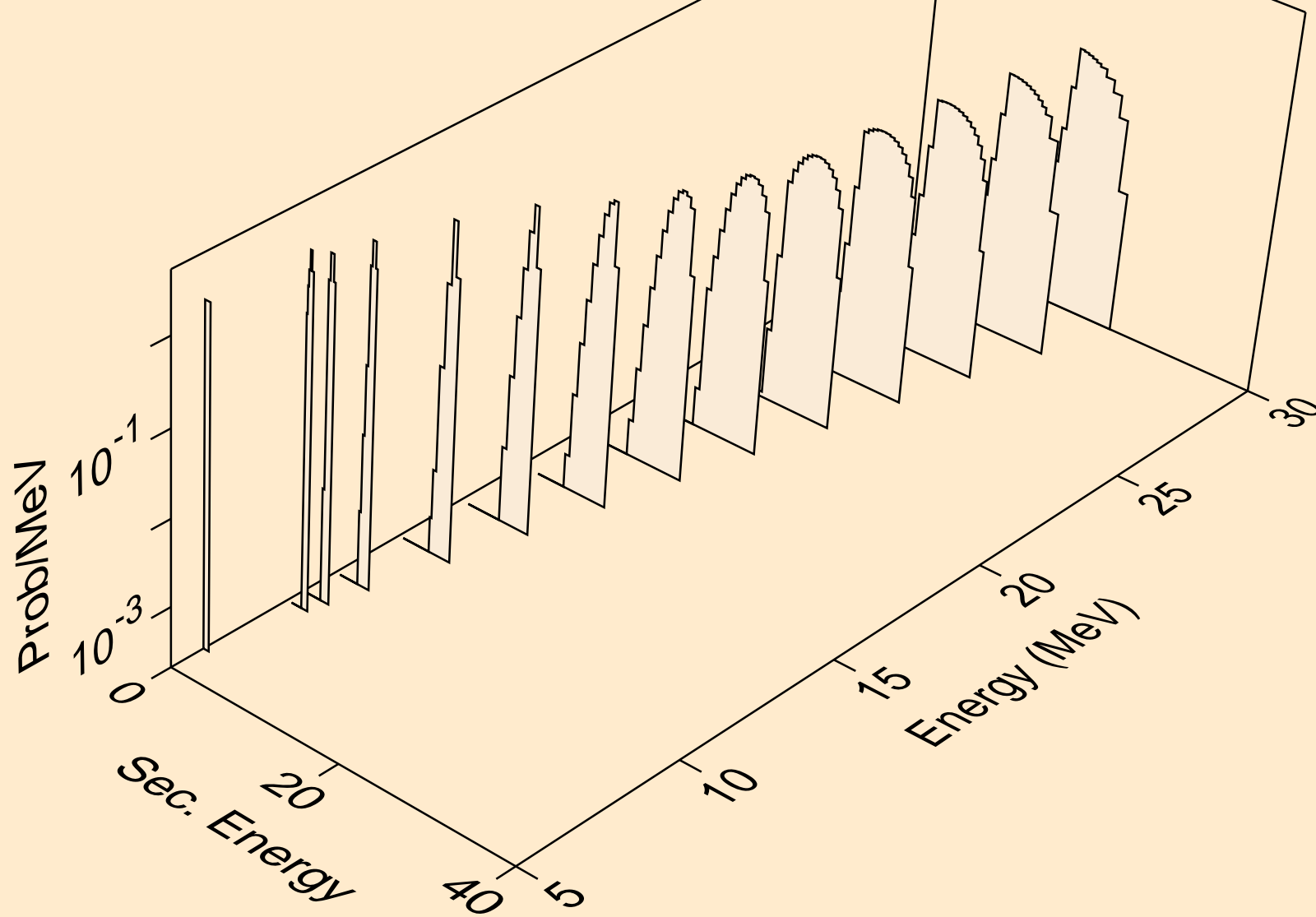
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,x)



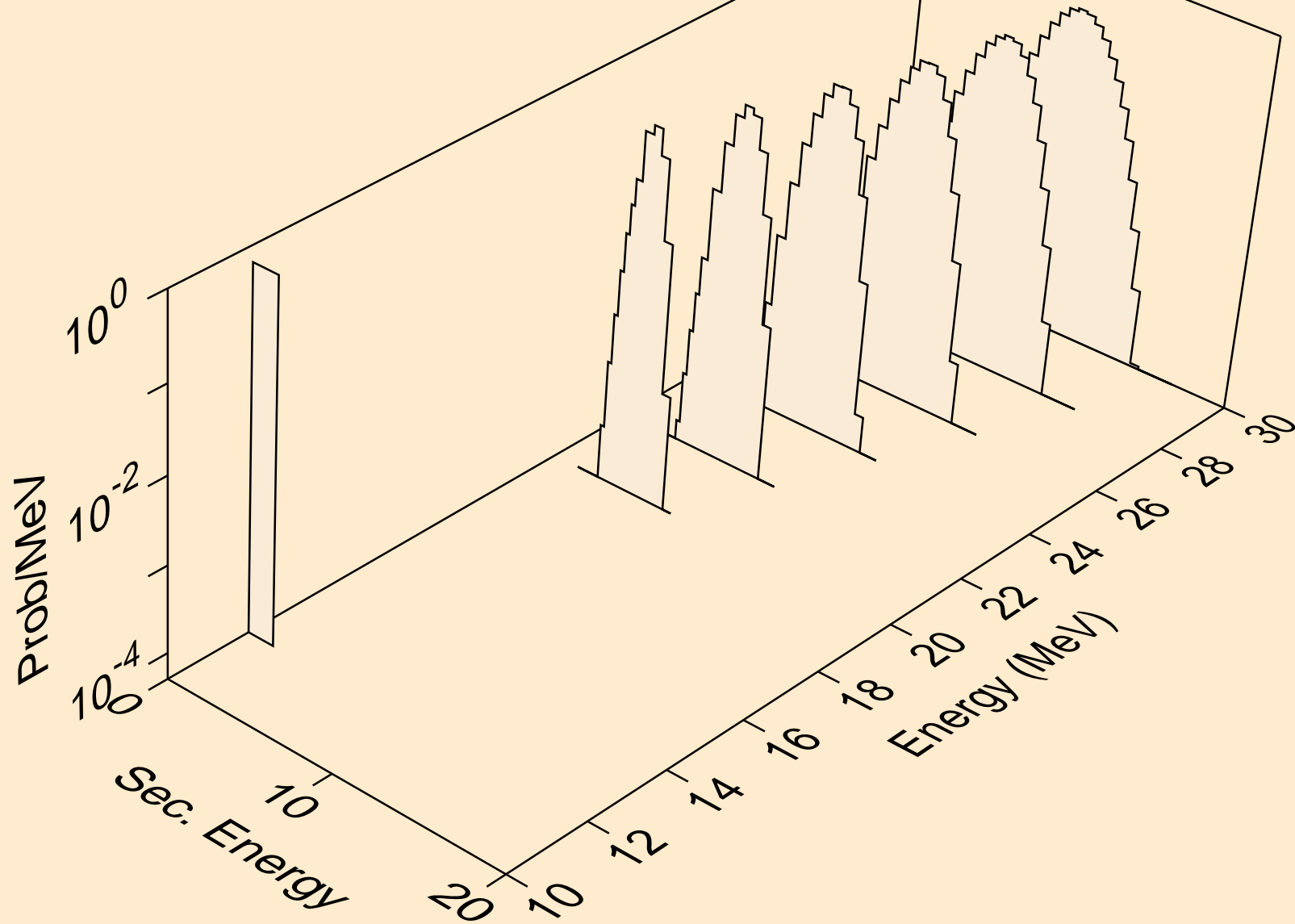
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,n\*)t



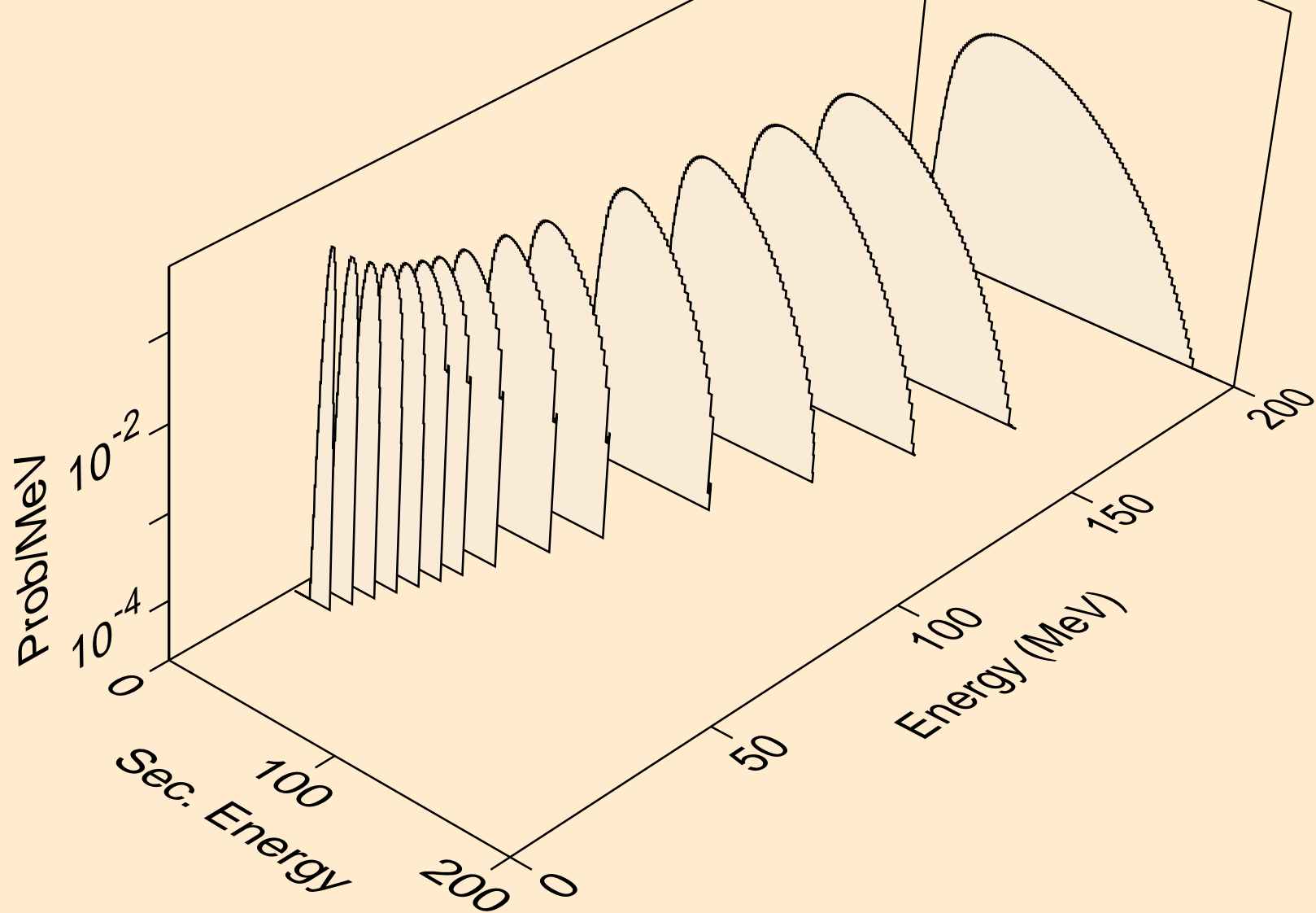
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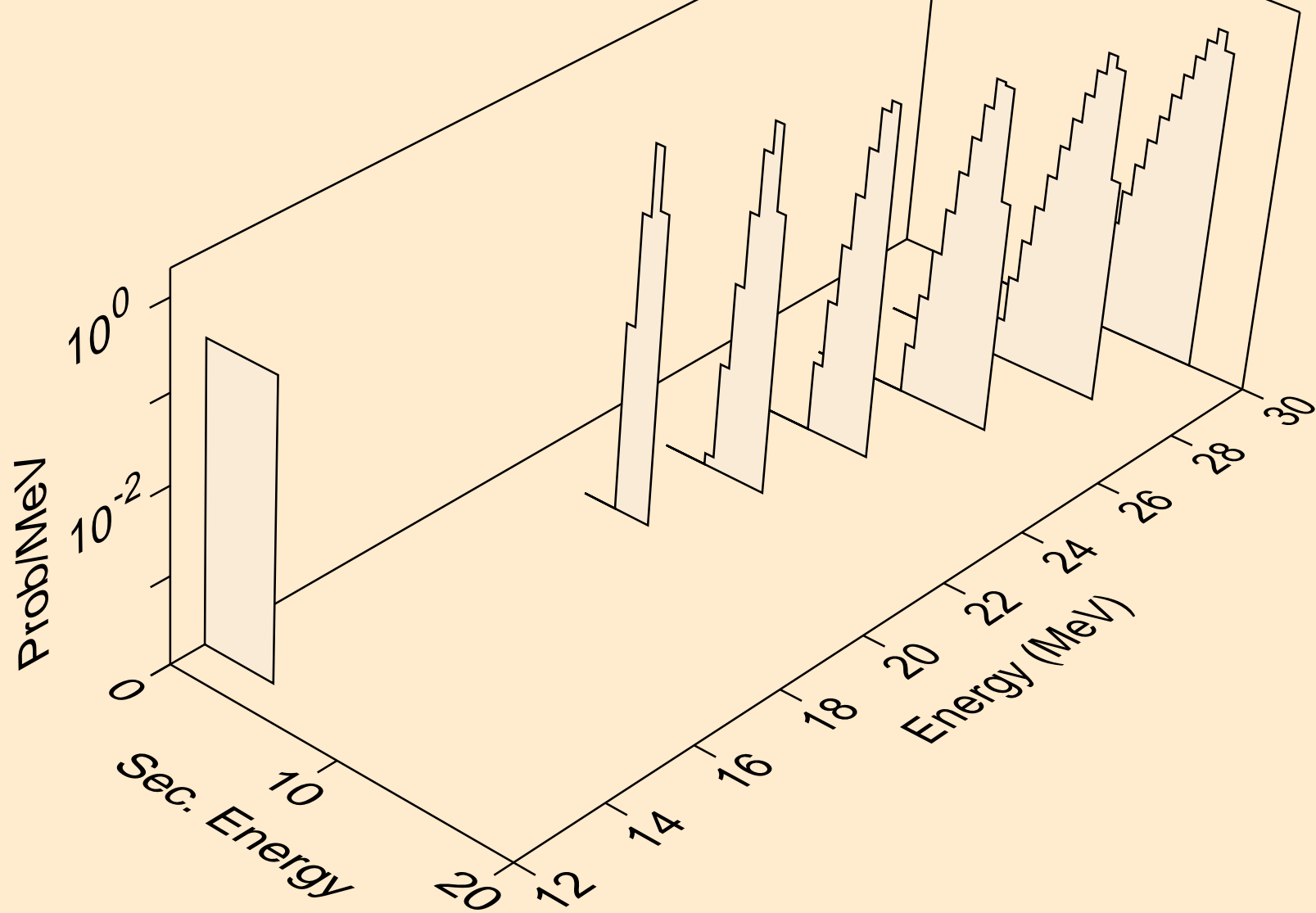
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,pt)



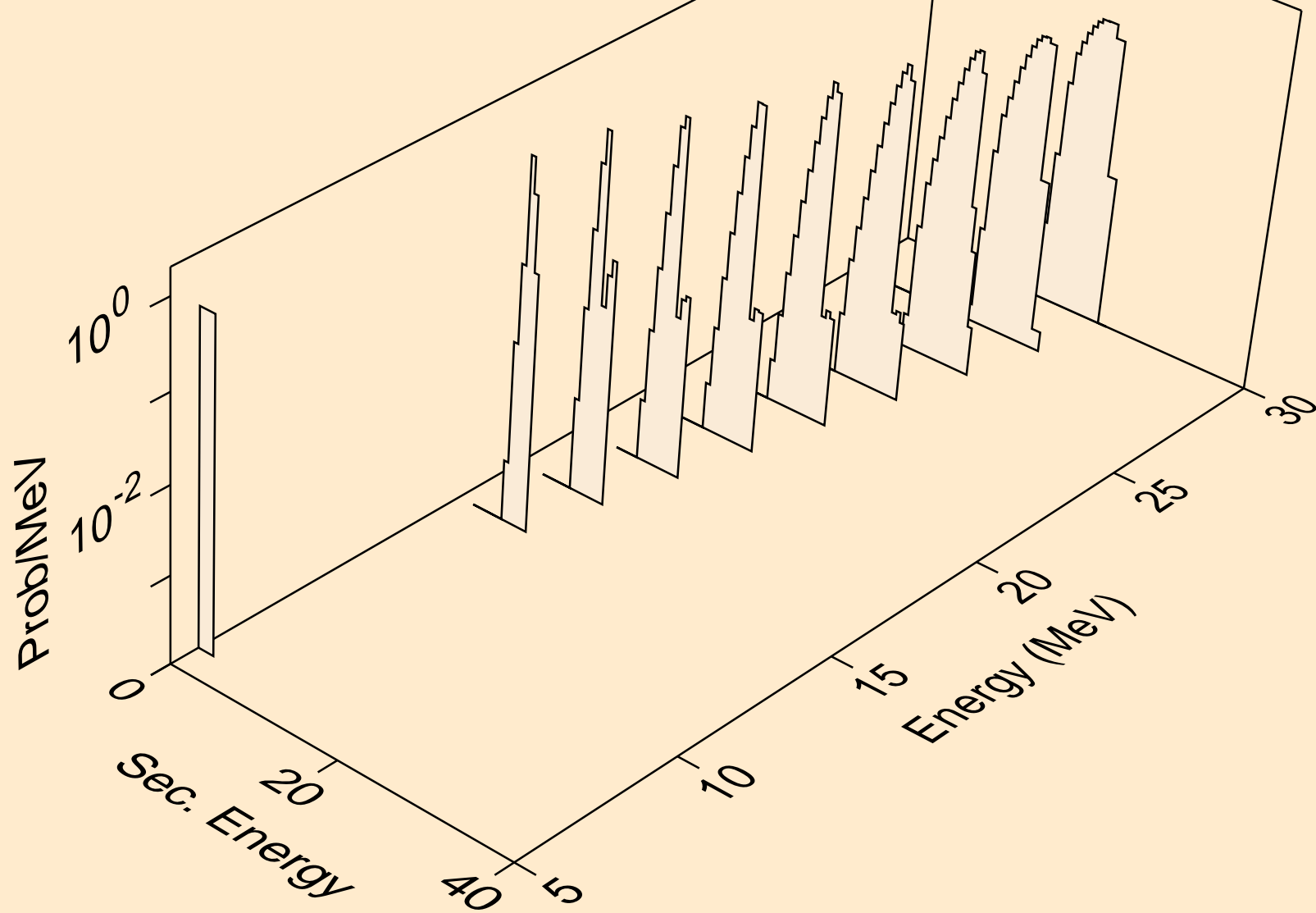
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,x)



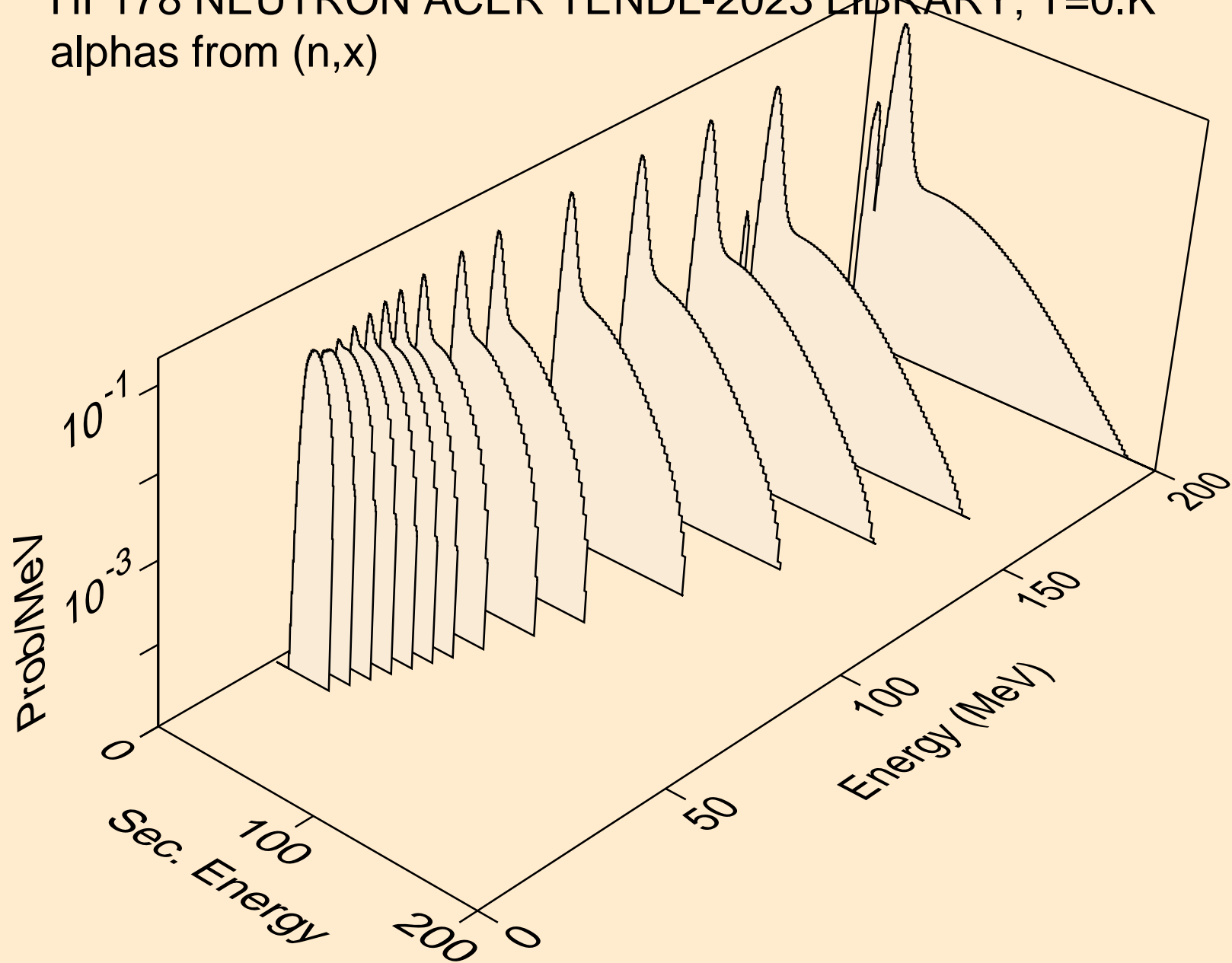
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,n\*)he3



HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,he3)

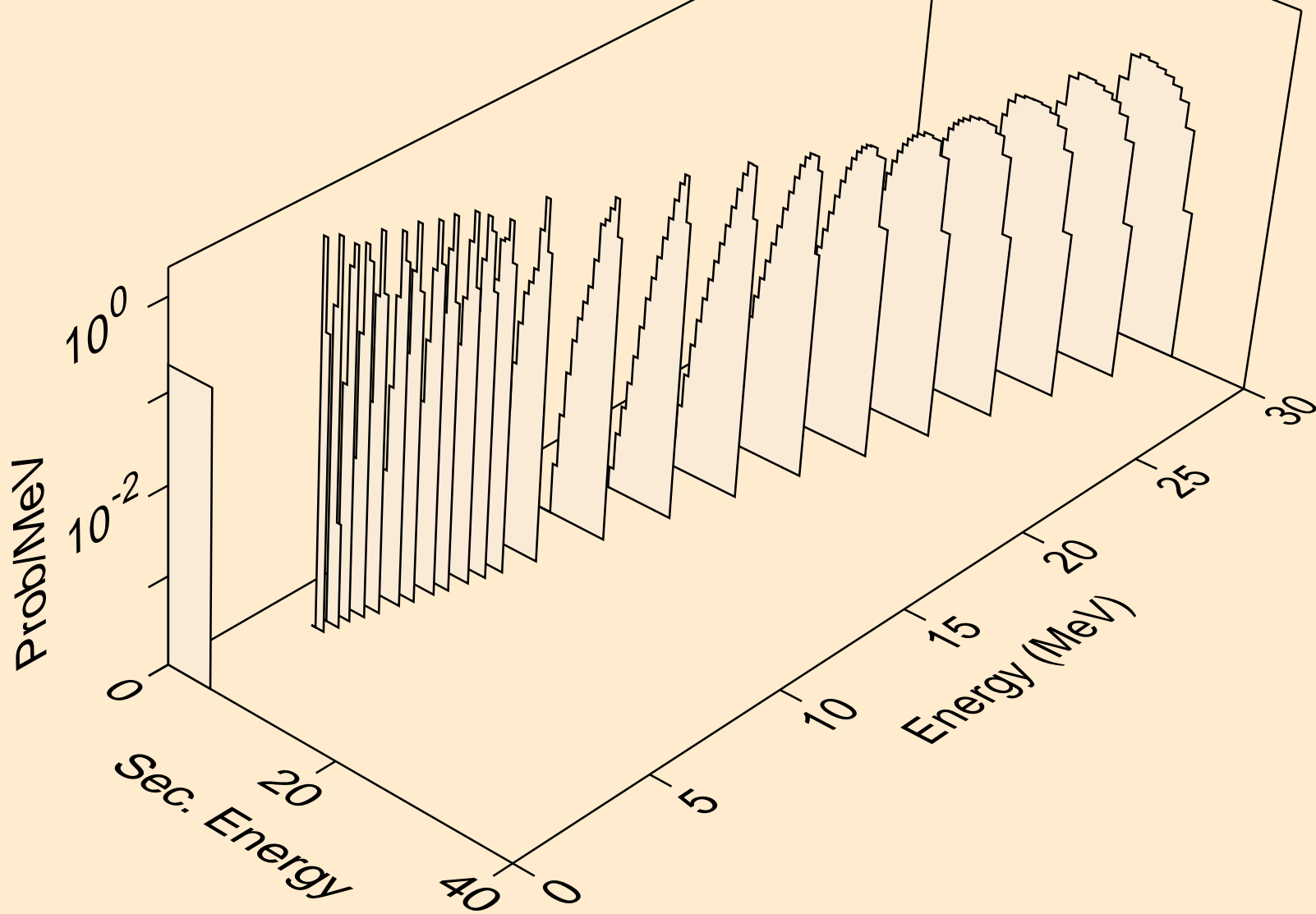


HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,x)

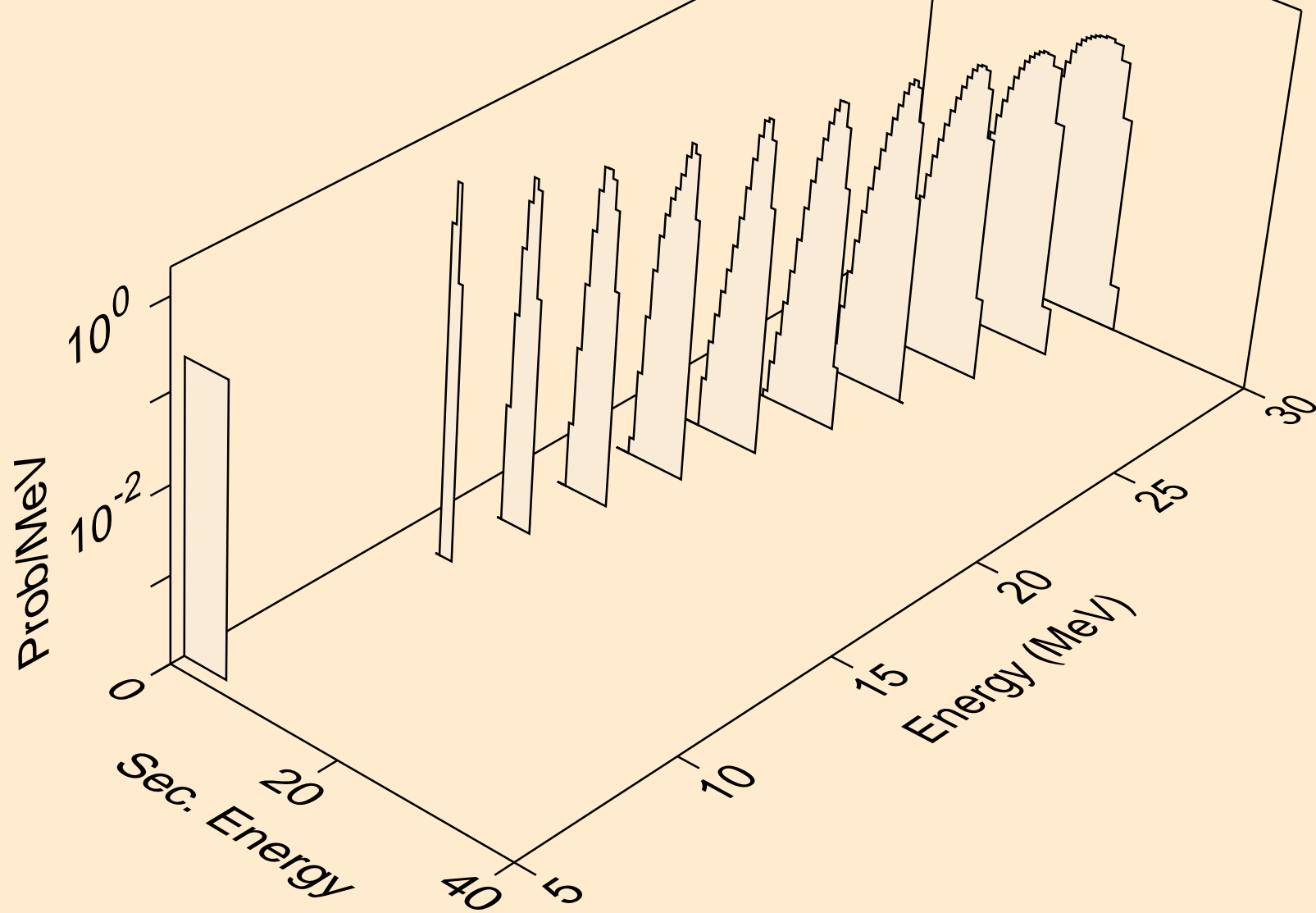




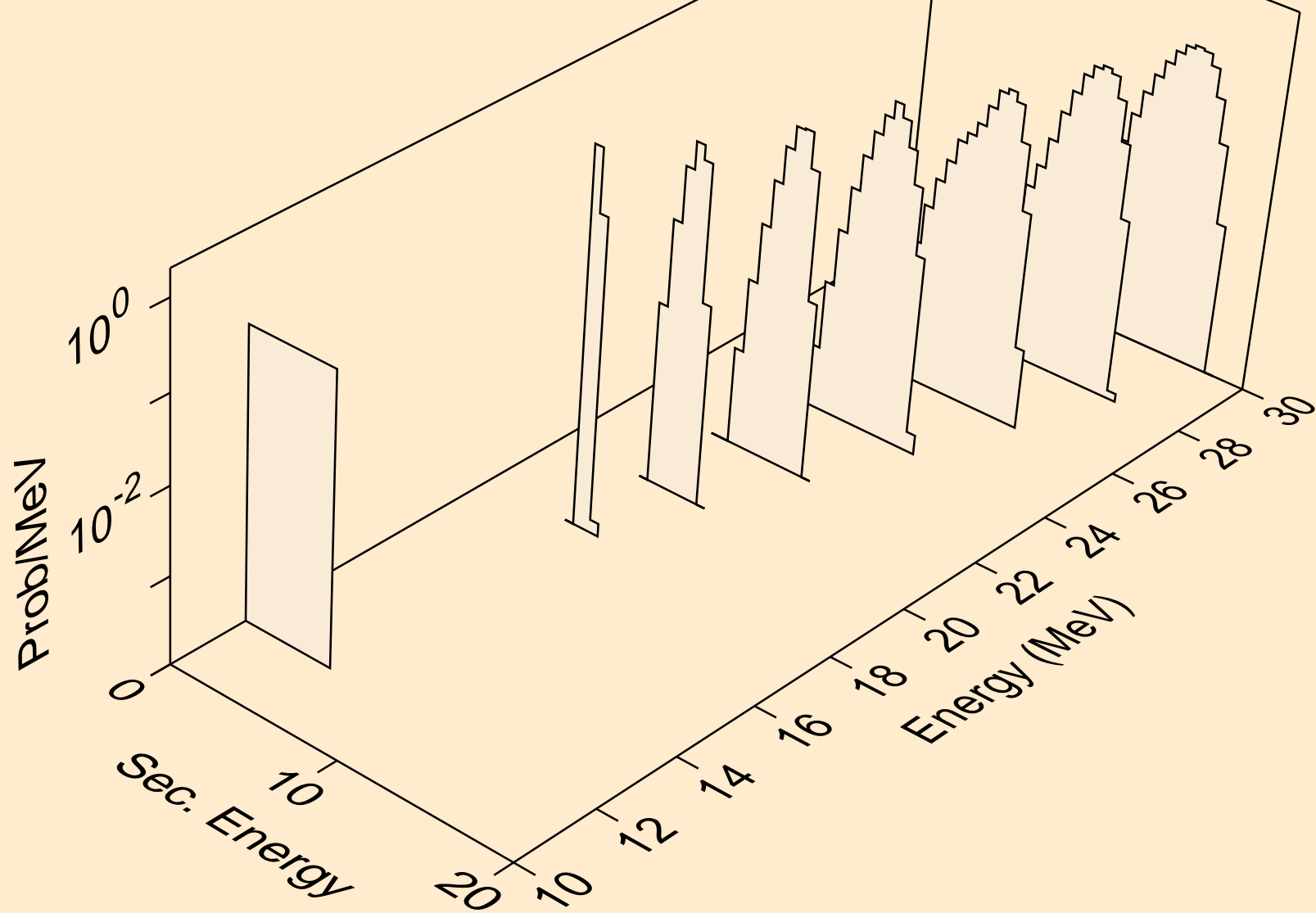
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,n\*)a



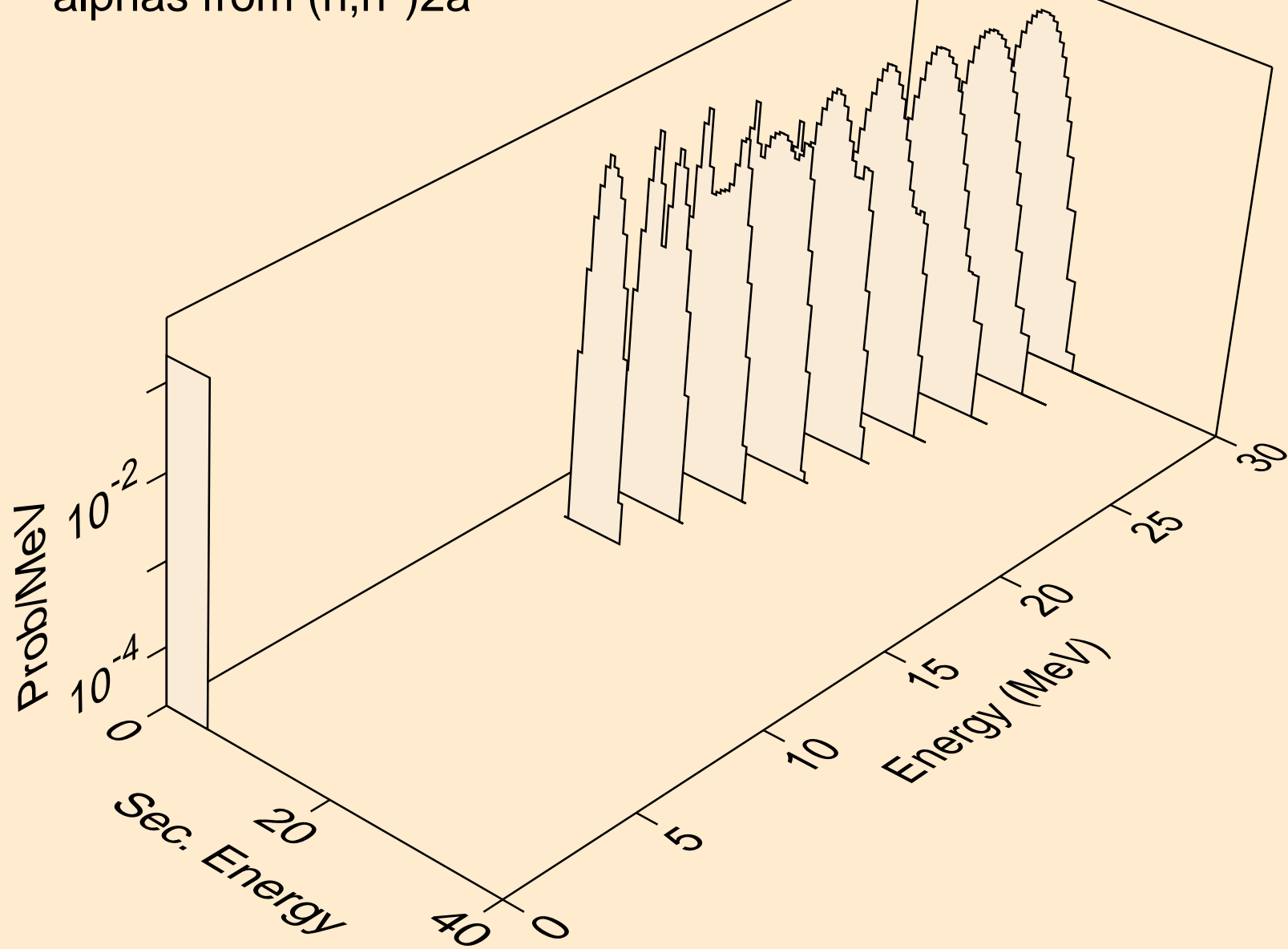
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2n)a



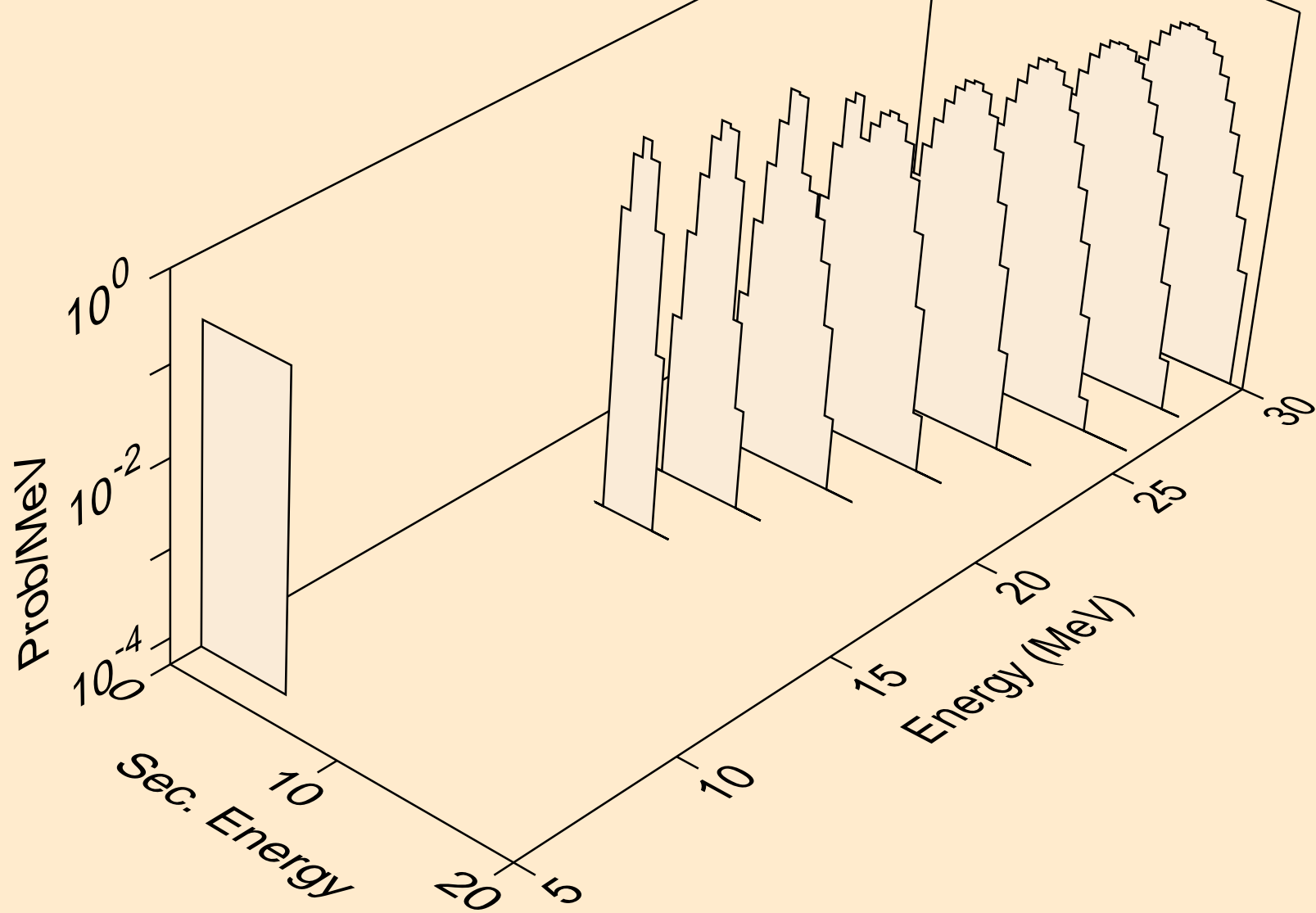
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alphas from (n,3n)a



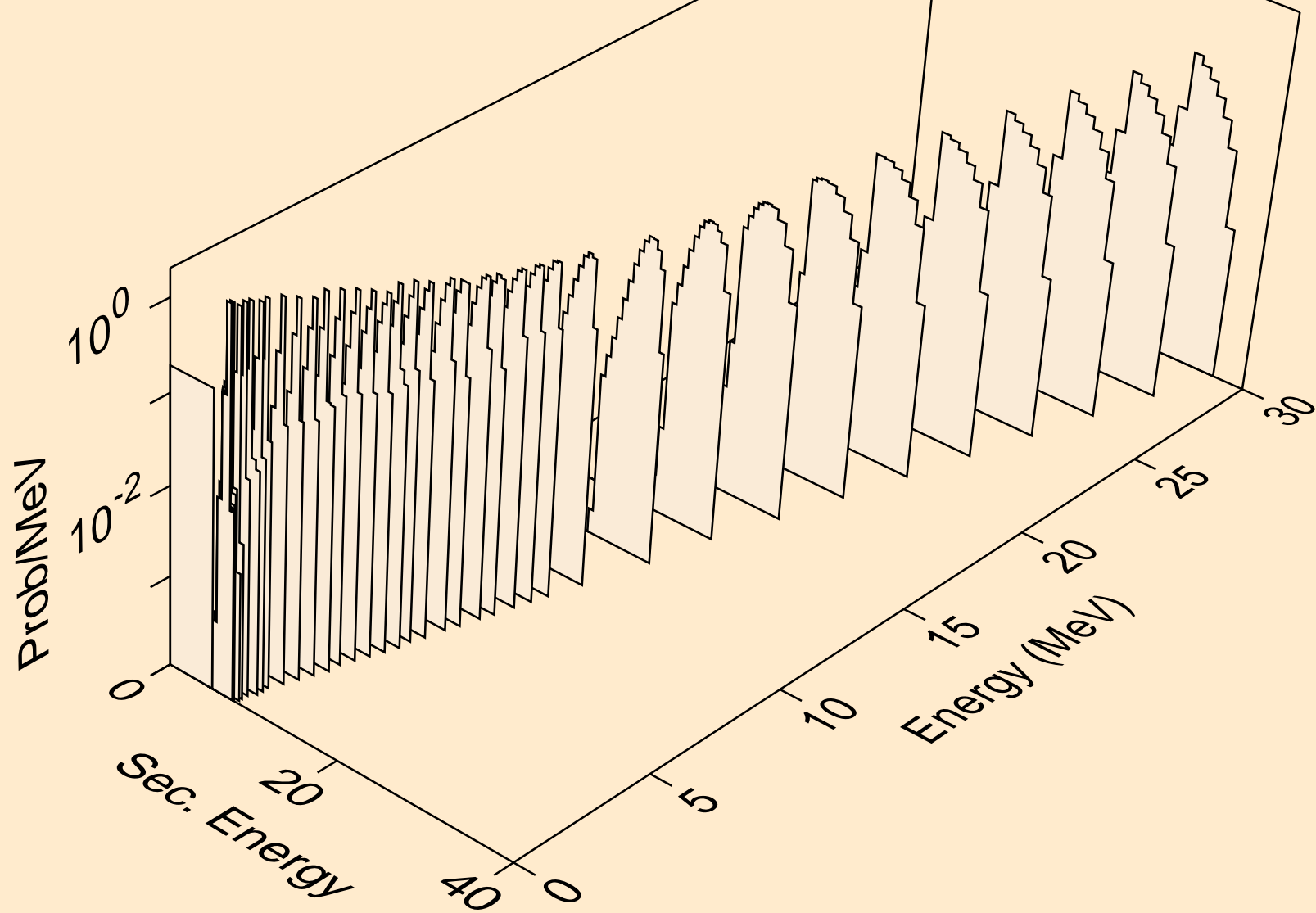
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alphas from (n,n\*)2a



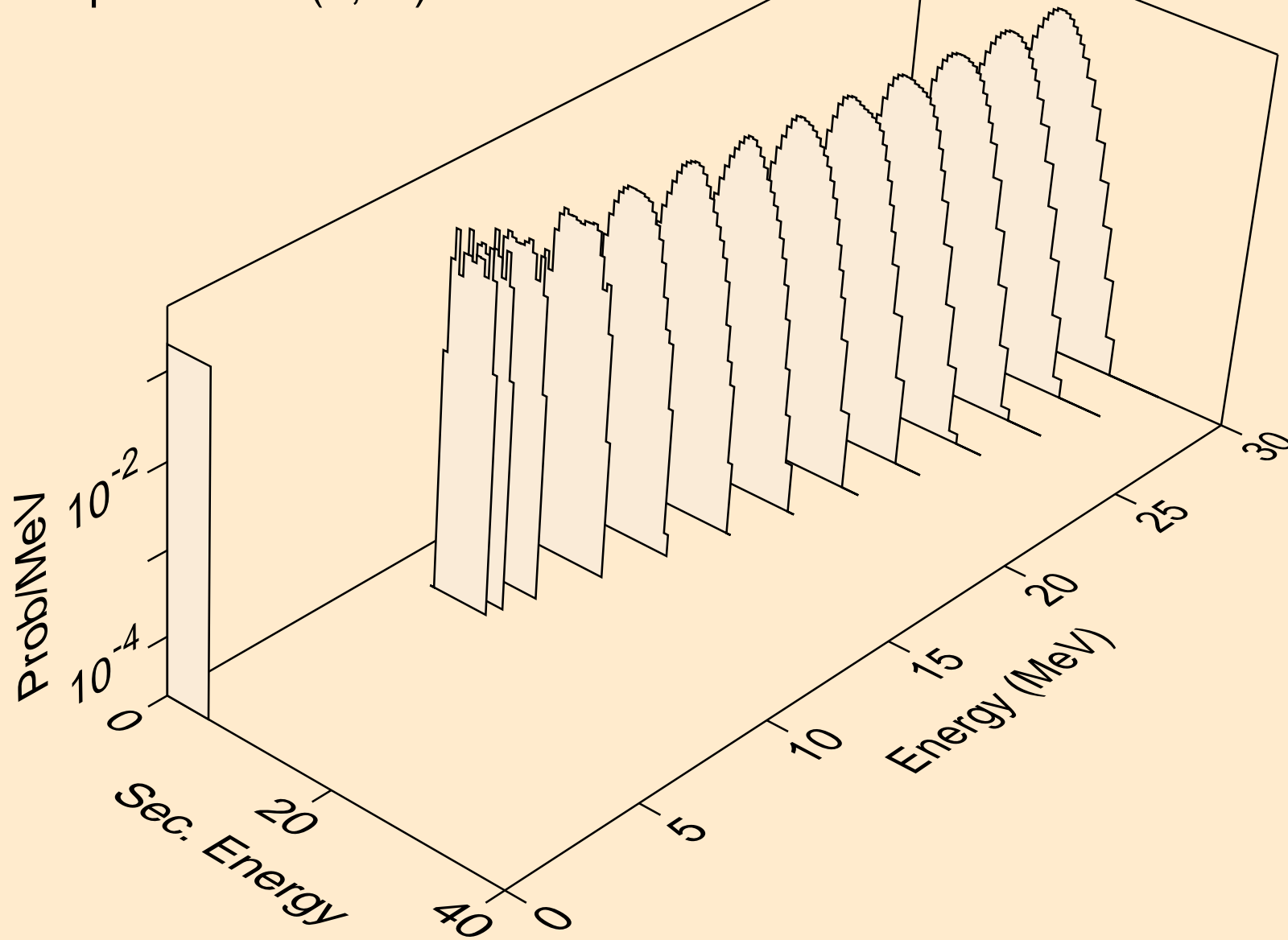
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alphas from (n,npa)



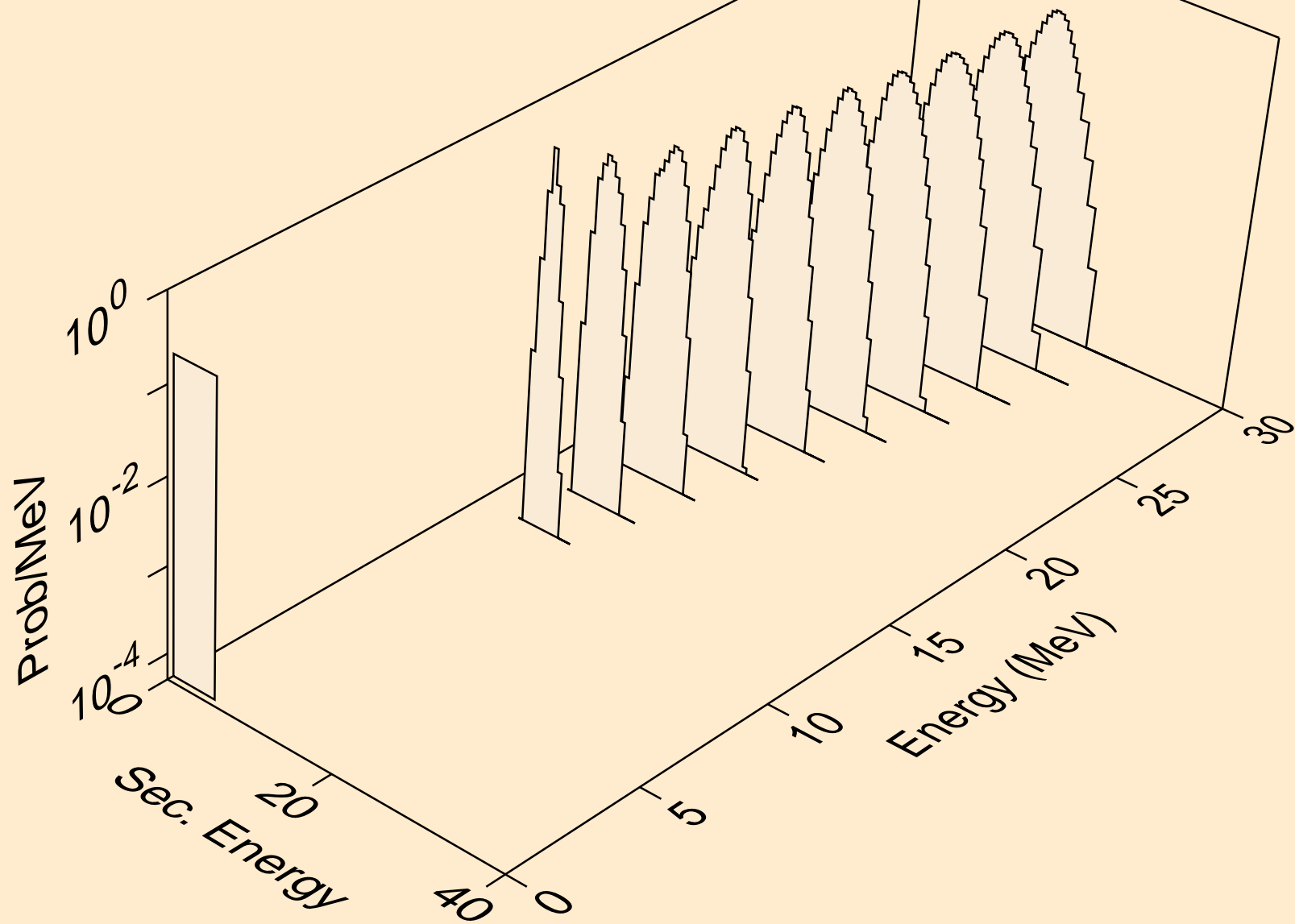
HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,a)



HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2a)



HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,pa)





HF178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,da)

