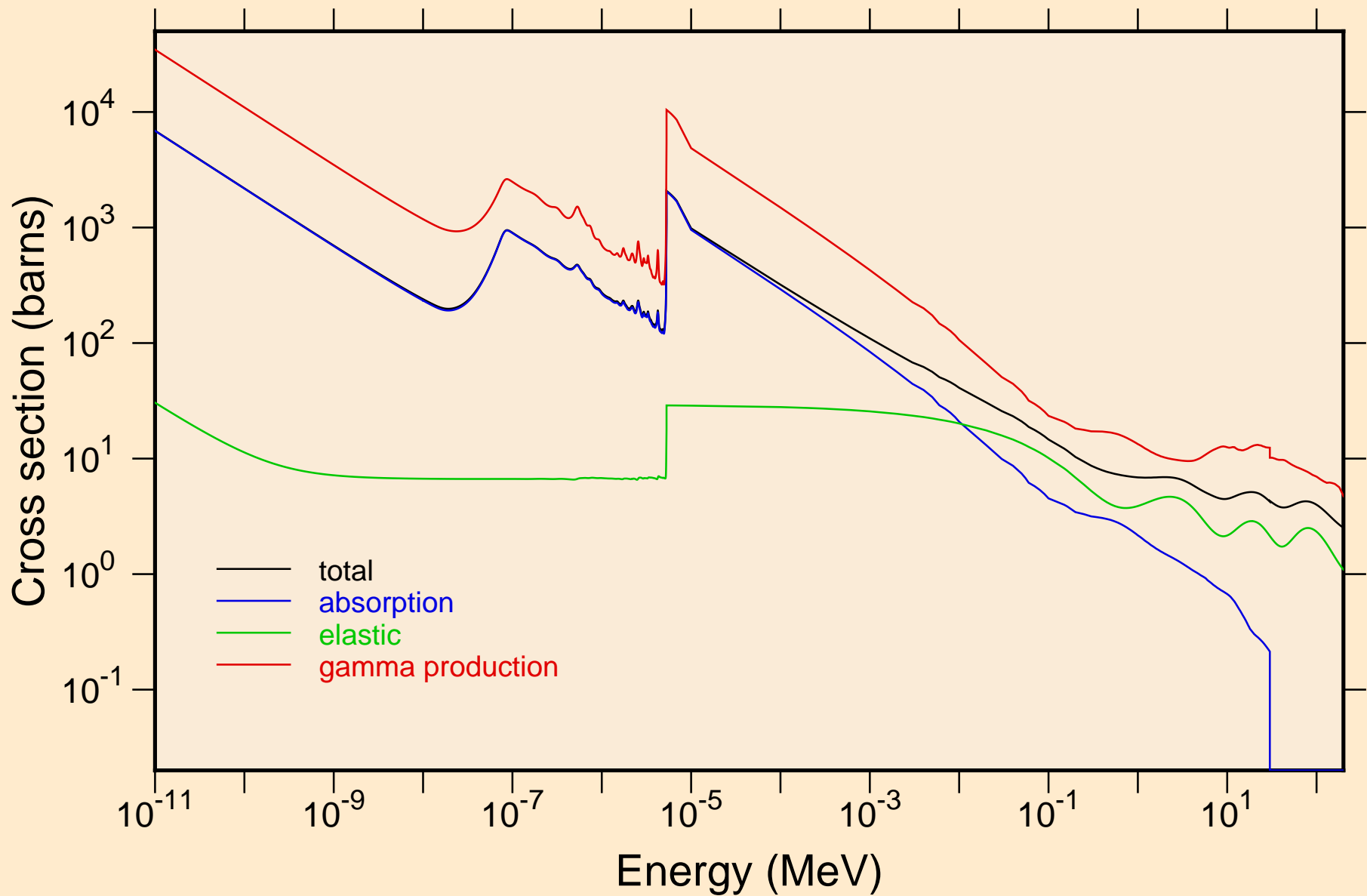
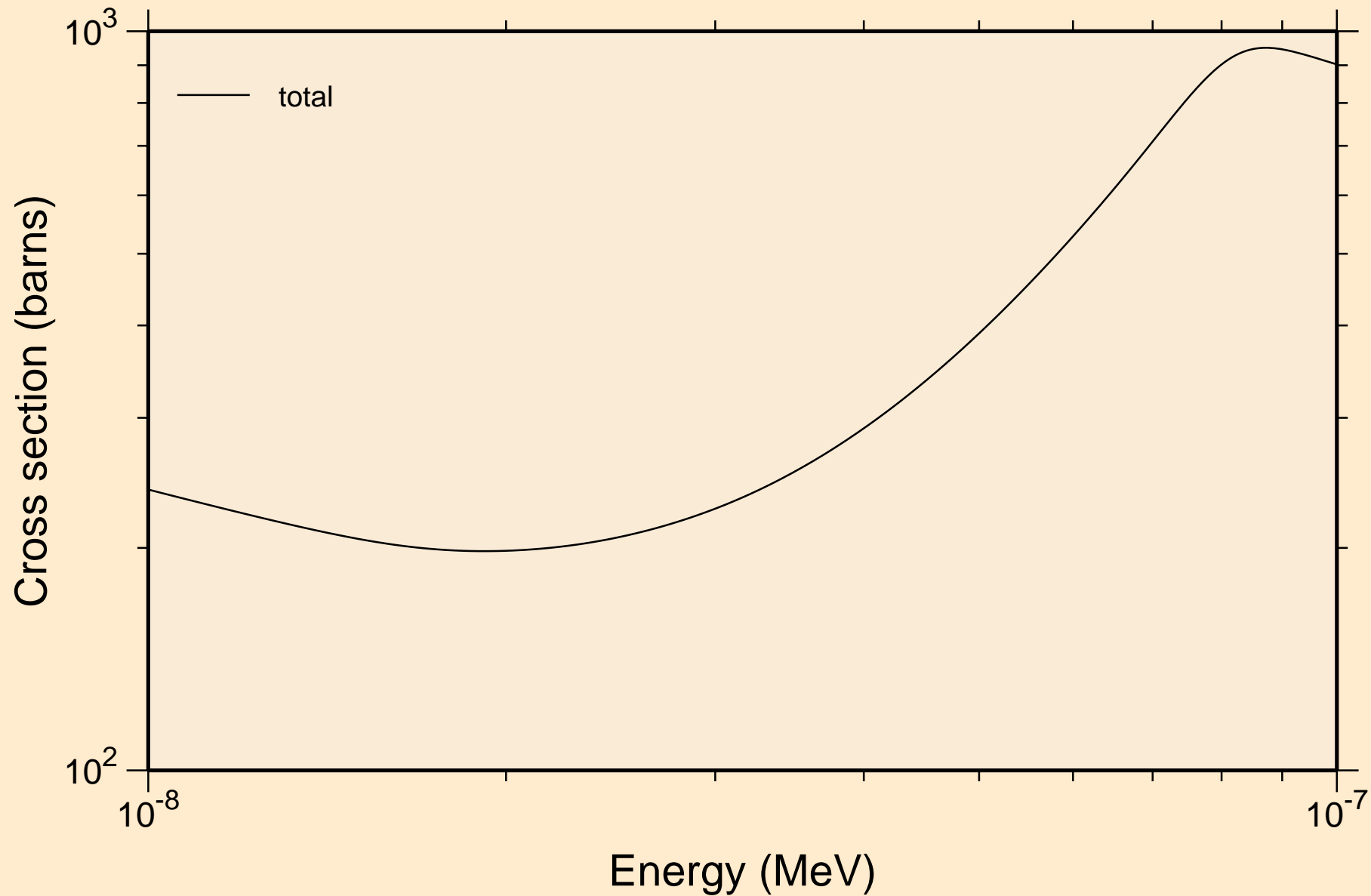


# HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

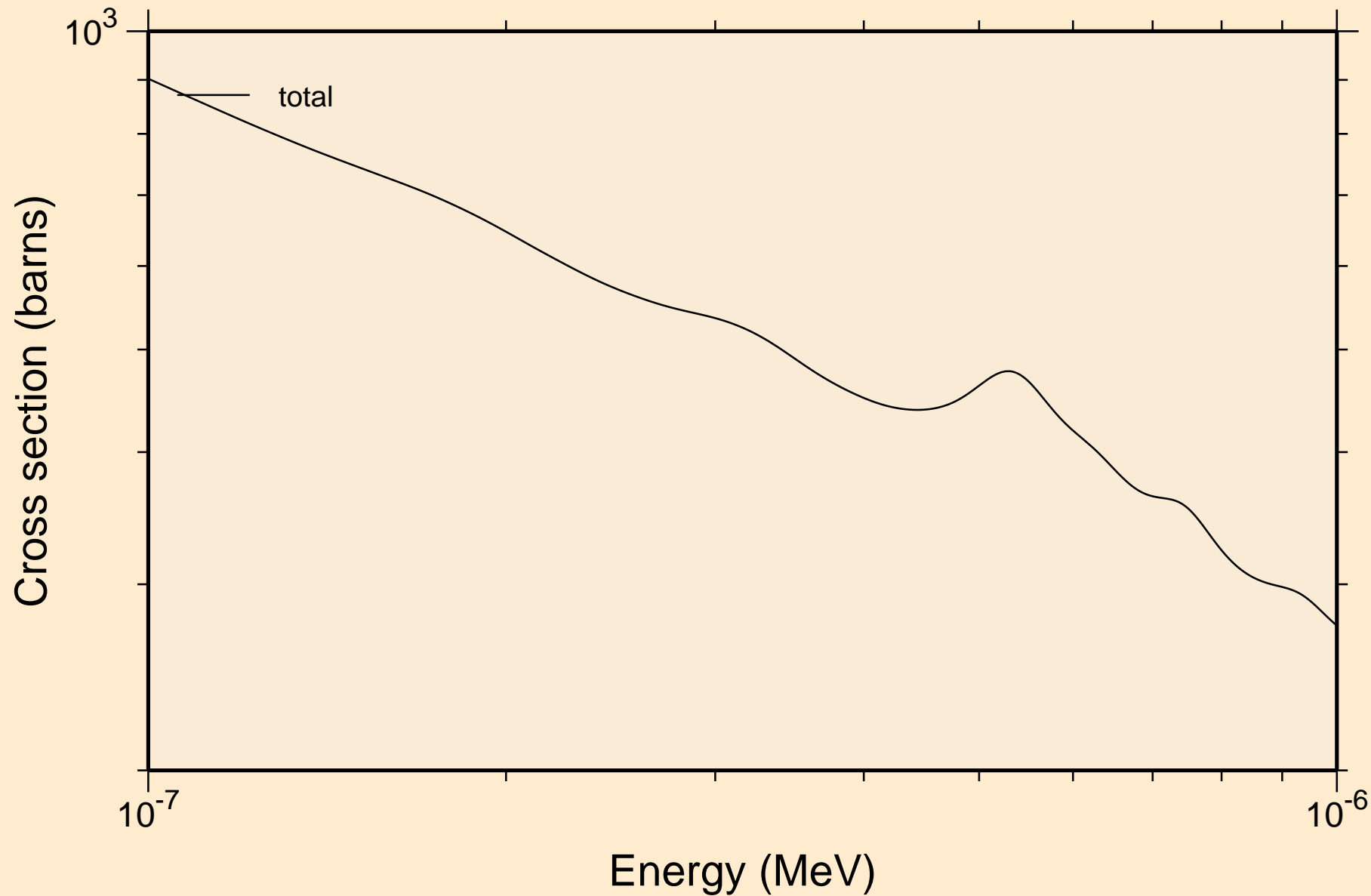
## Principal cross sections



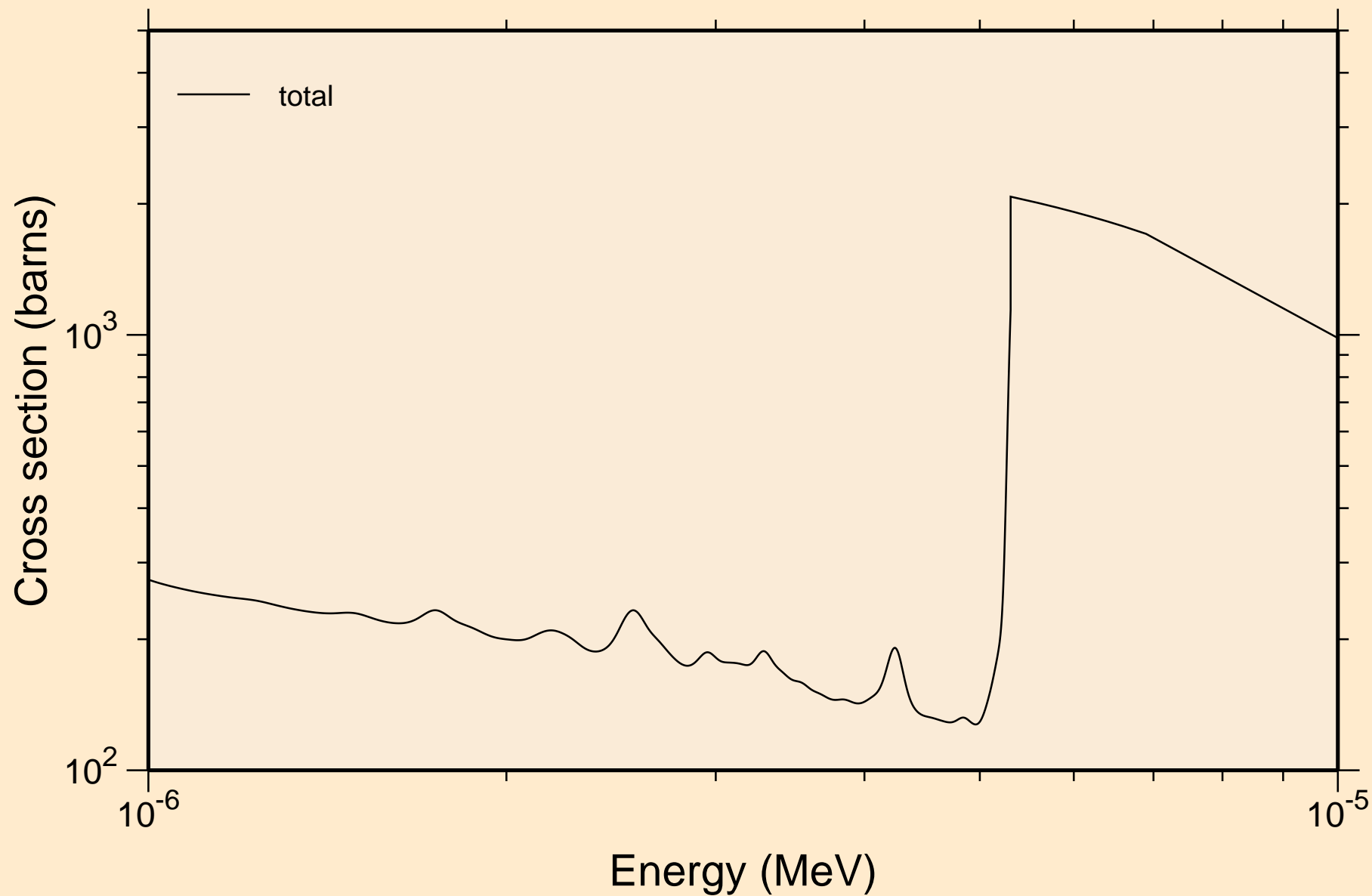
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resonance total cross section



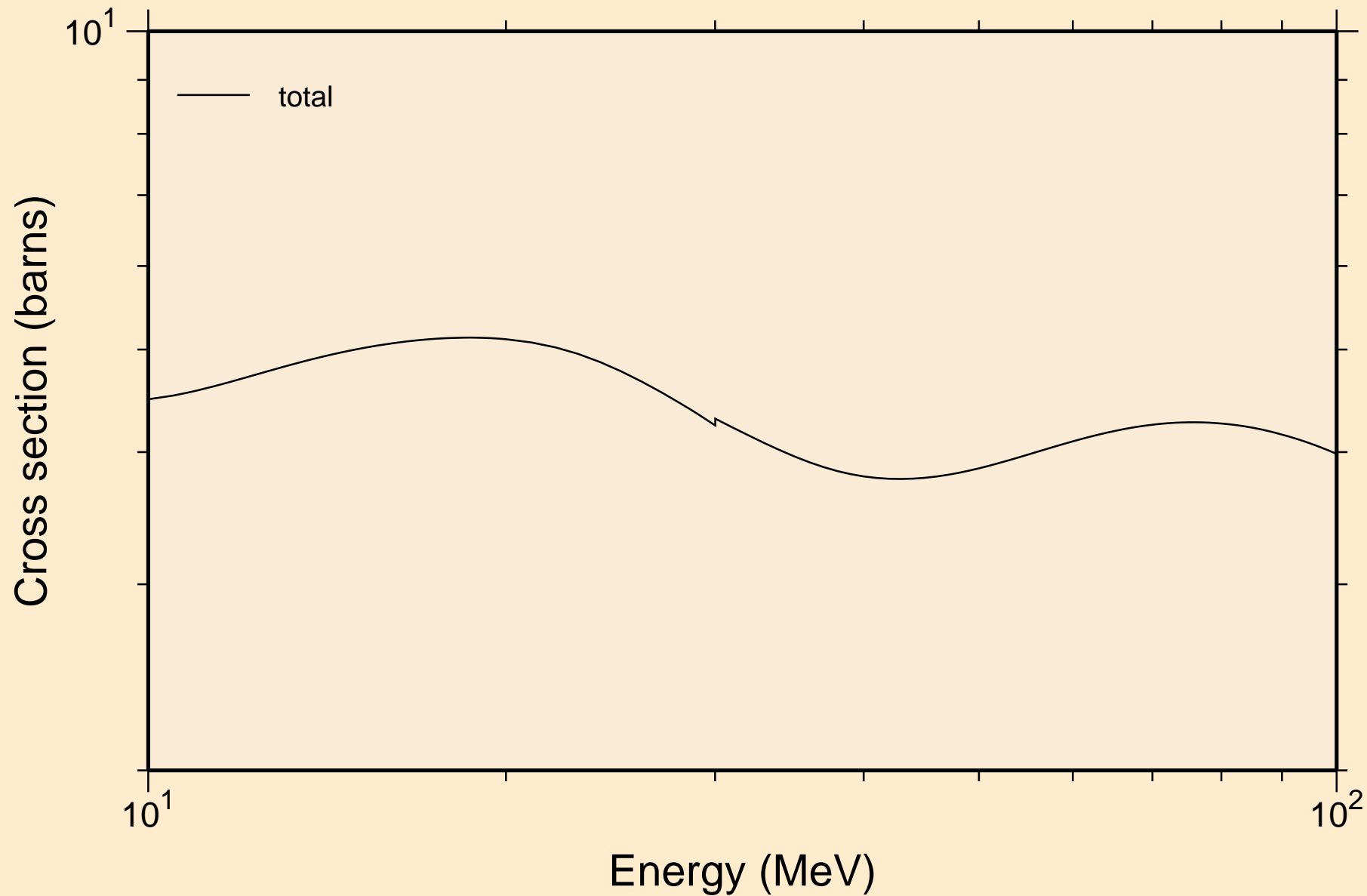
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resonance total cross section



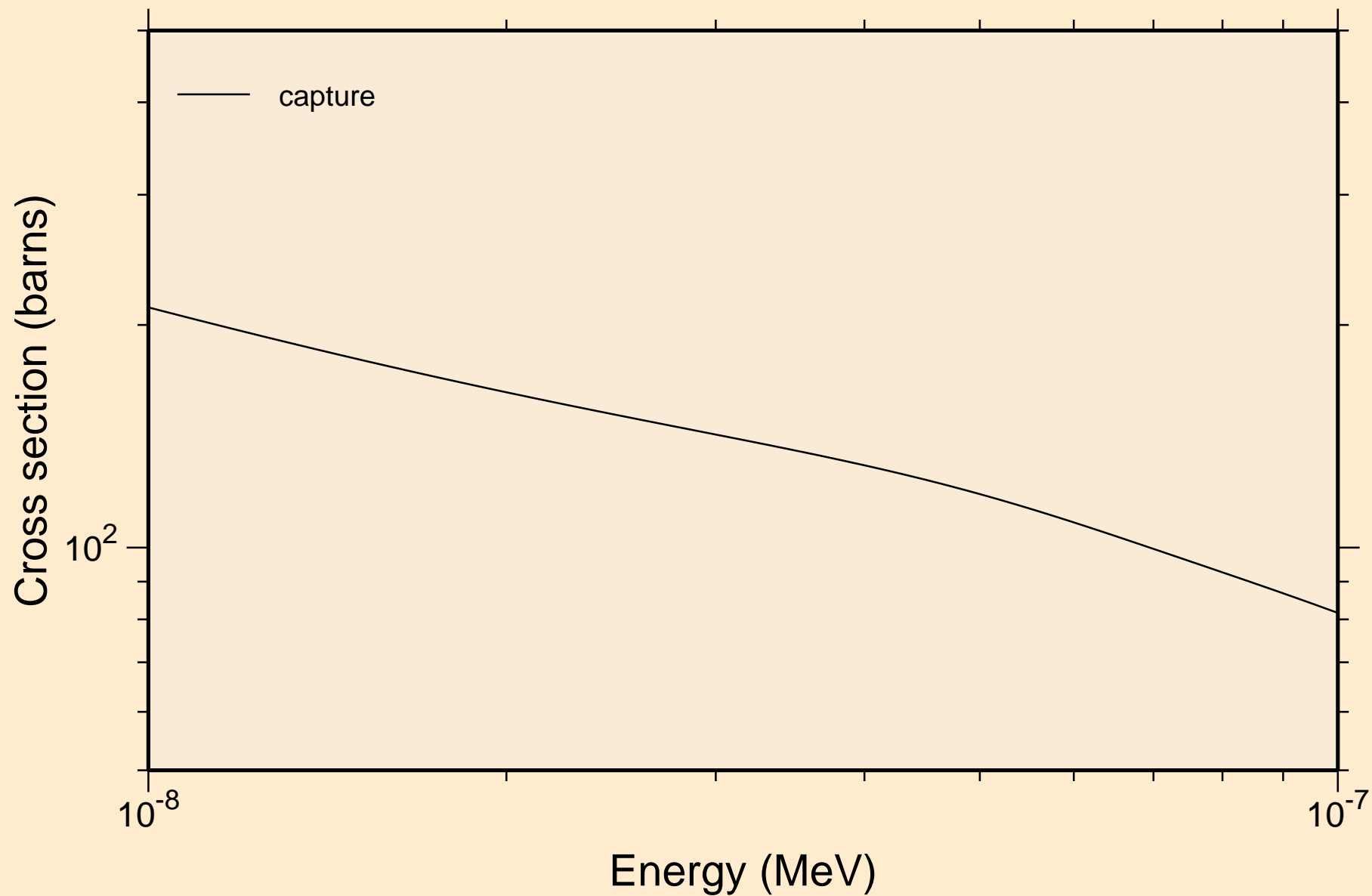
HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



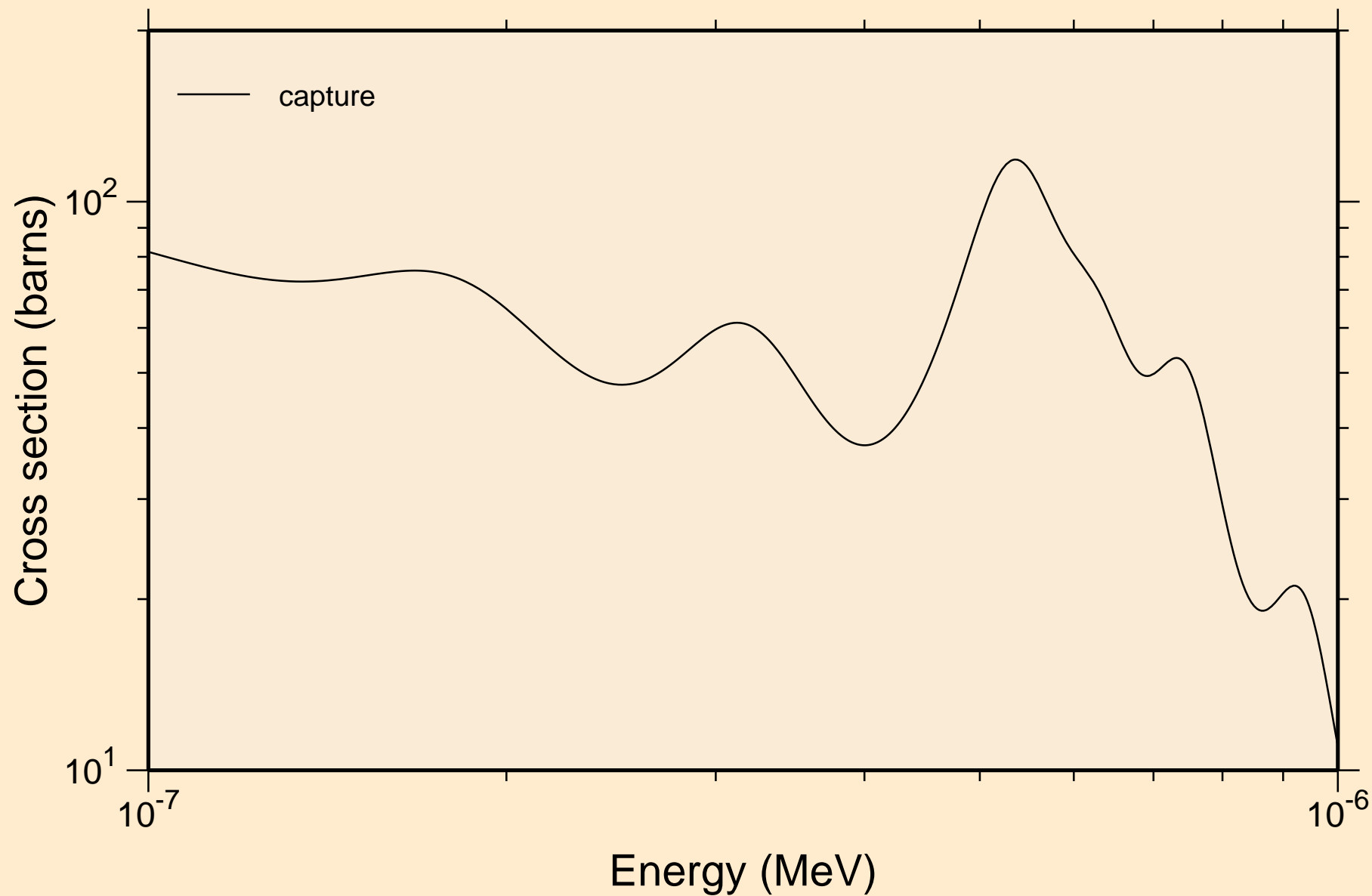
HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



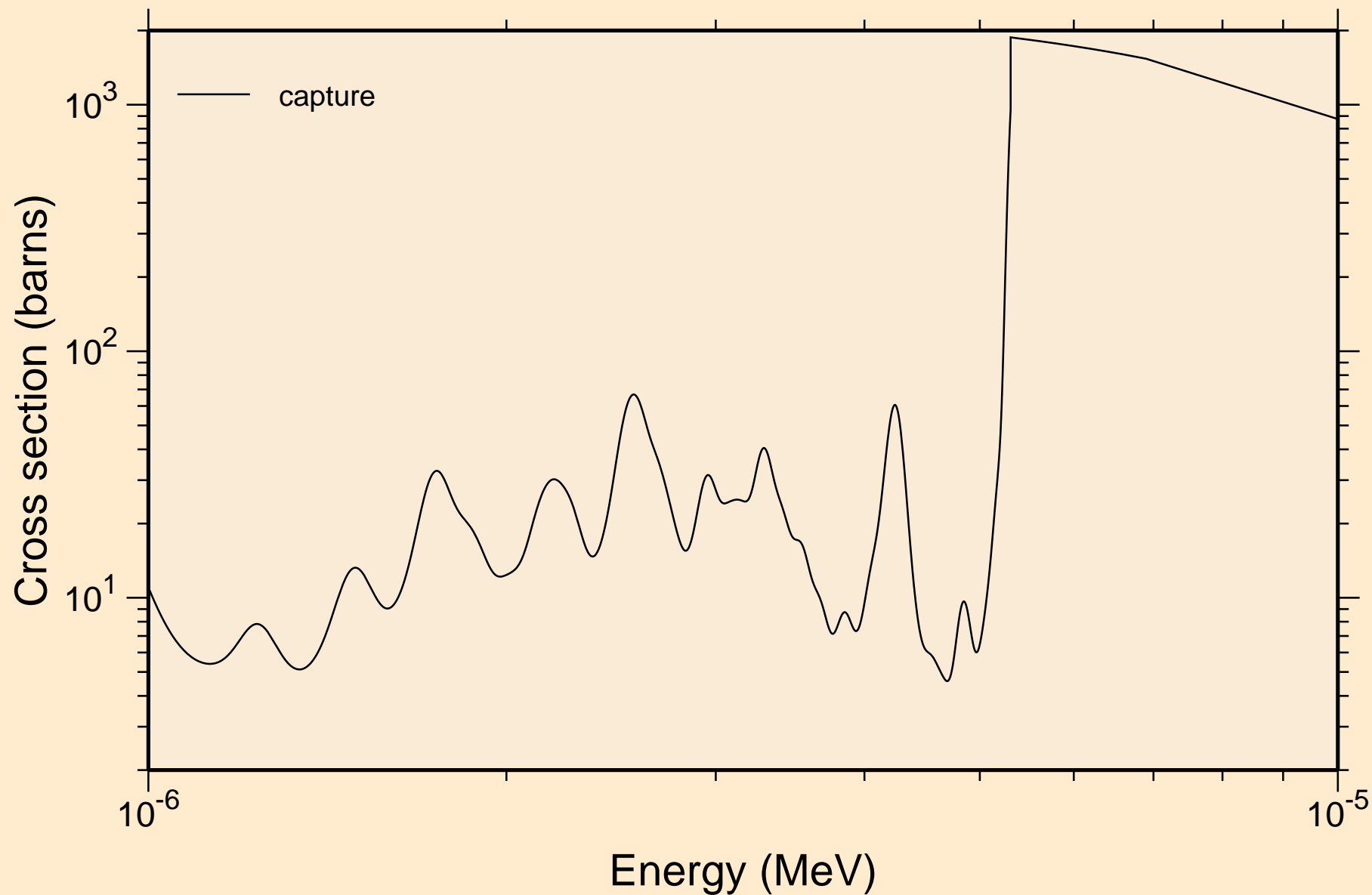
HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections



HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

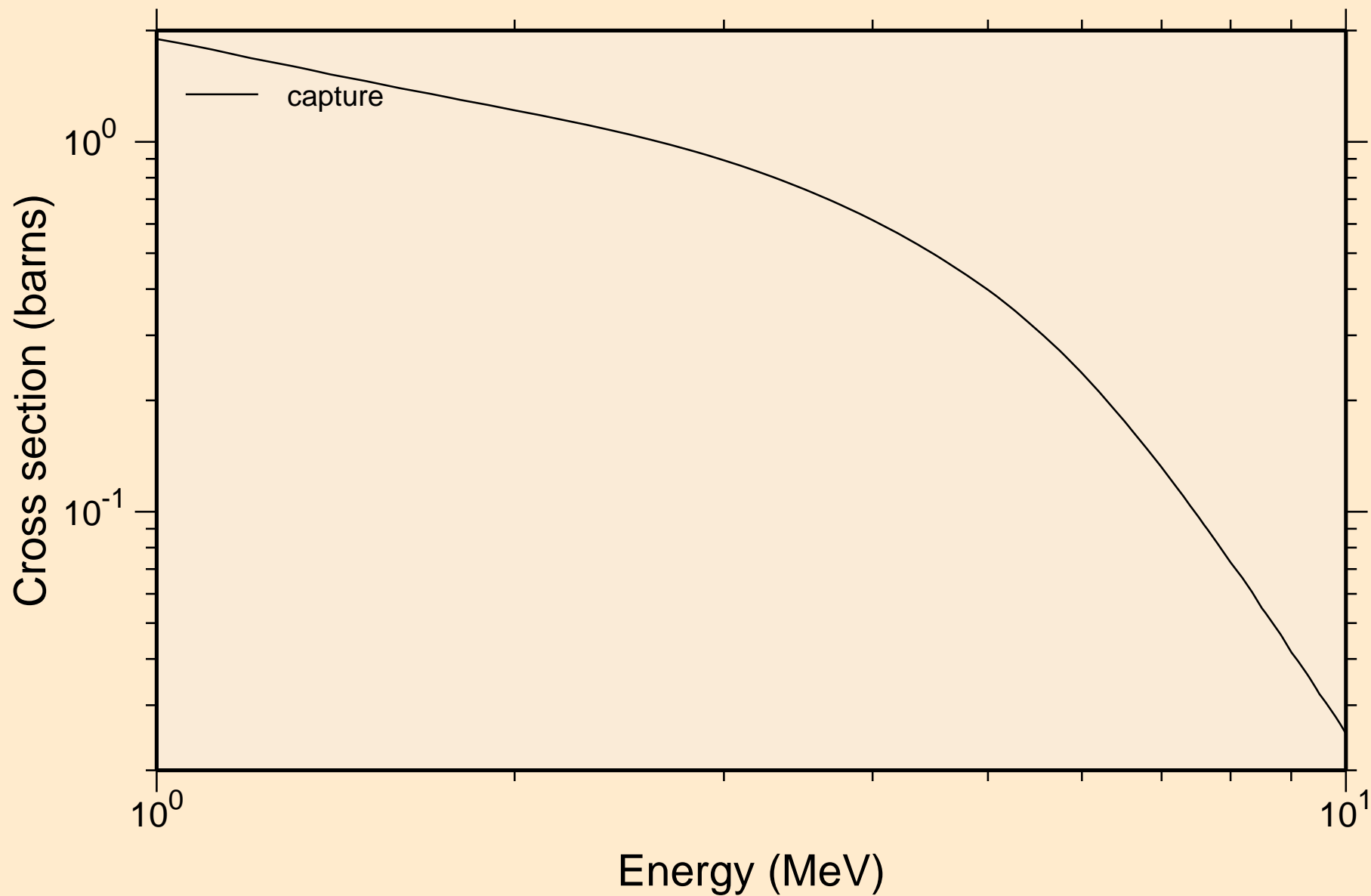


HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

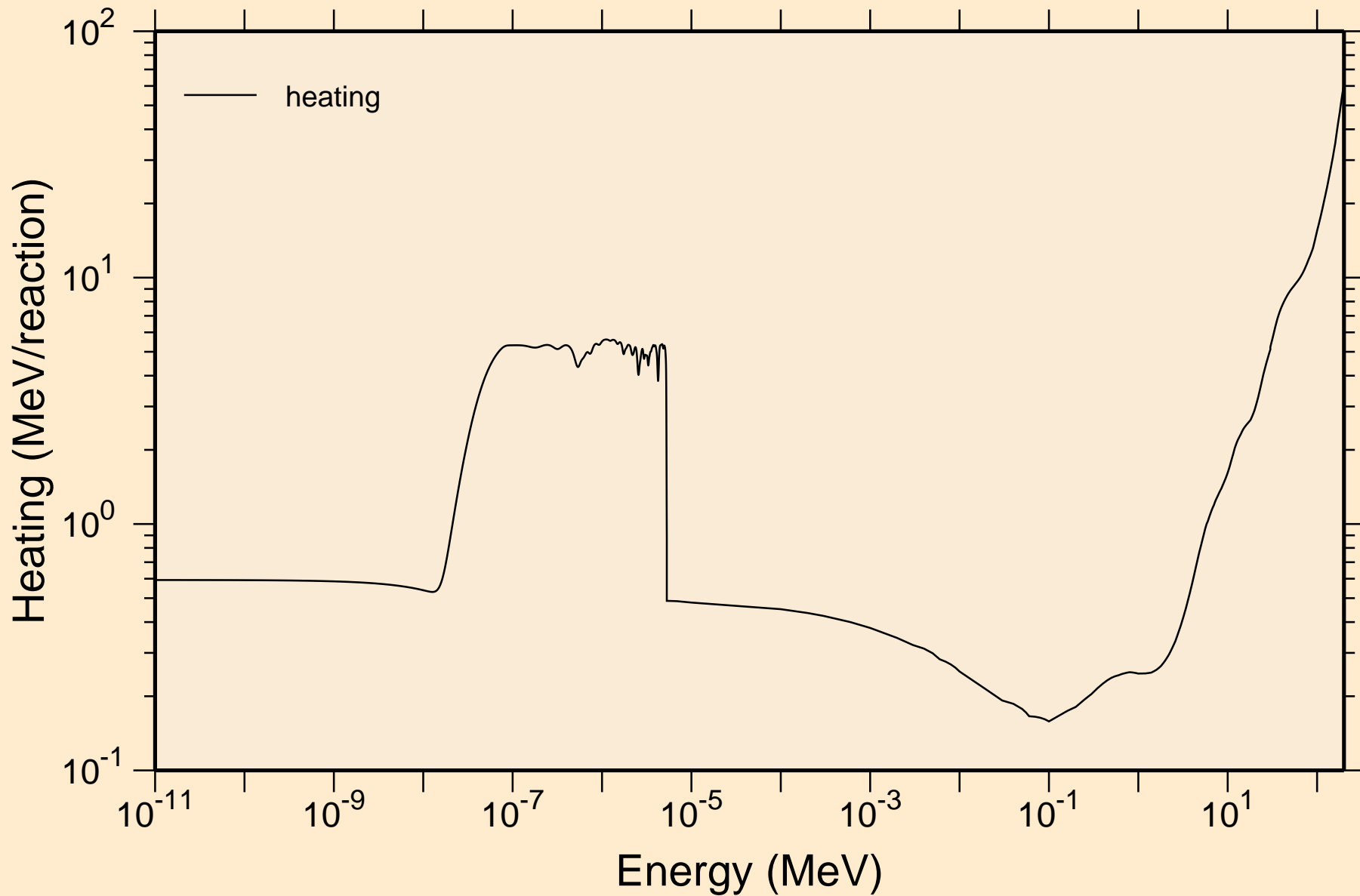




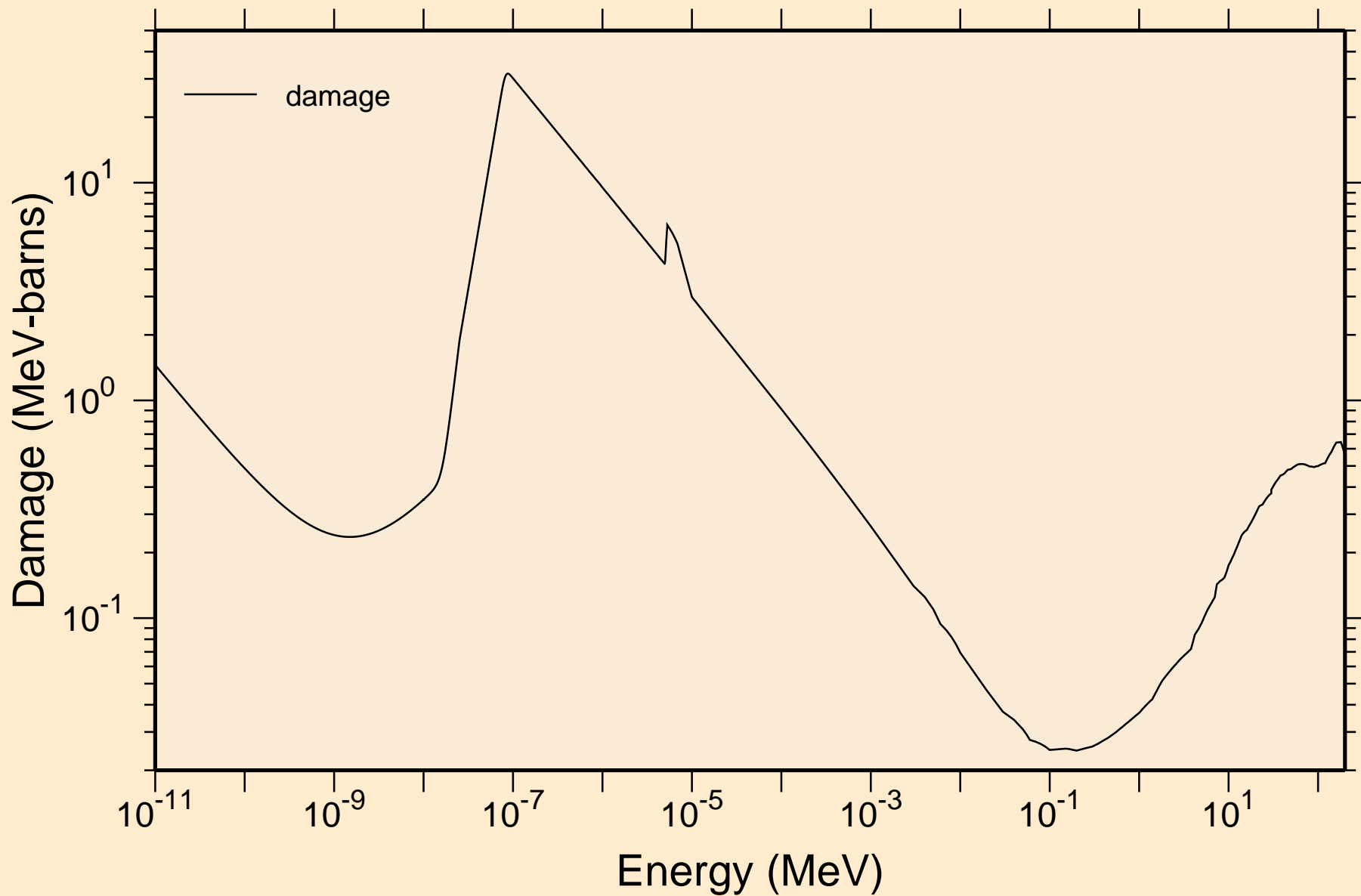
HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections



HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating

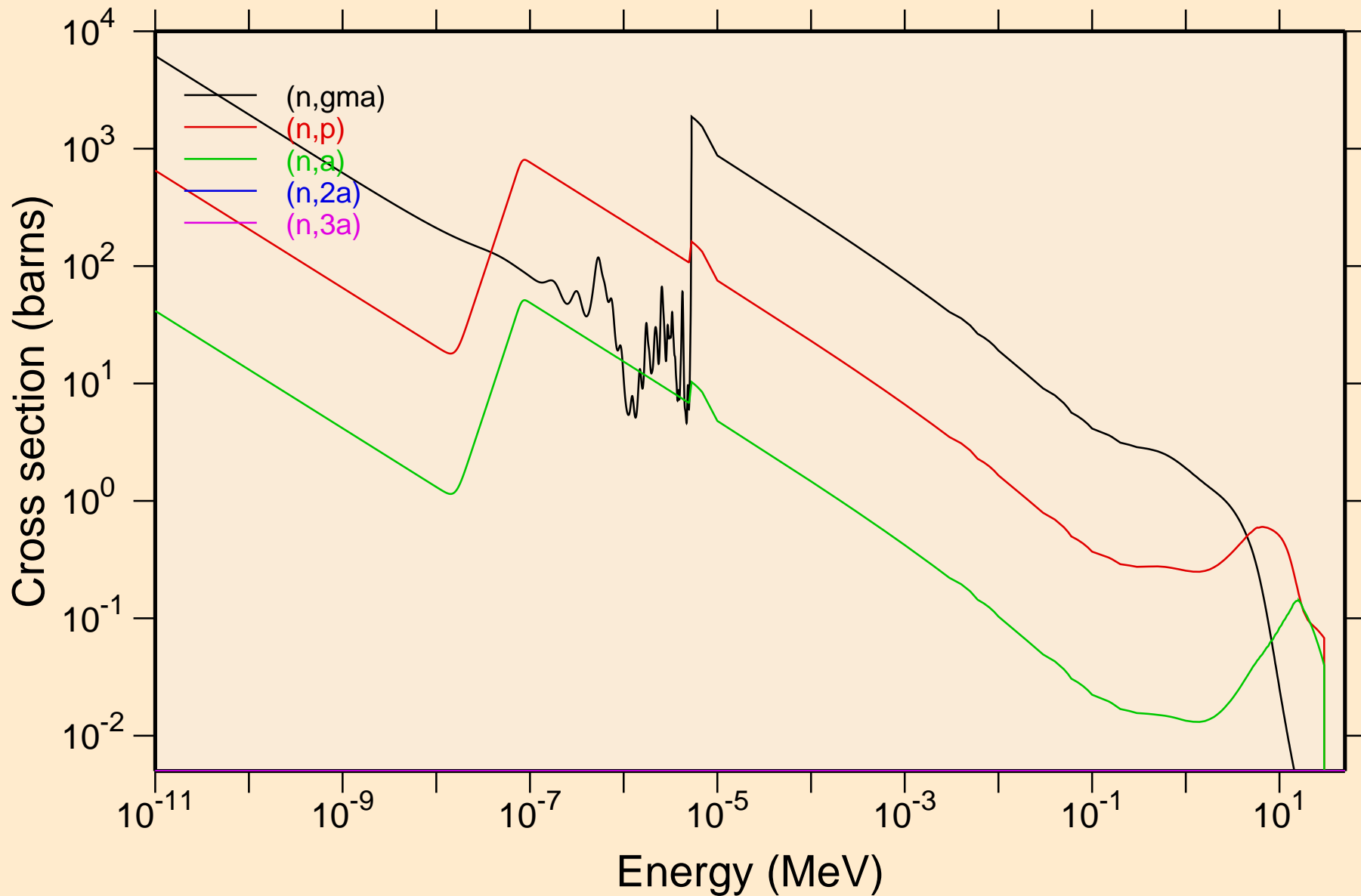


HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Damage

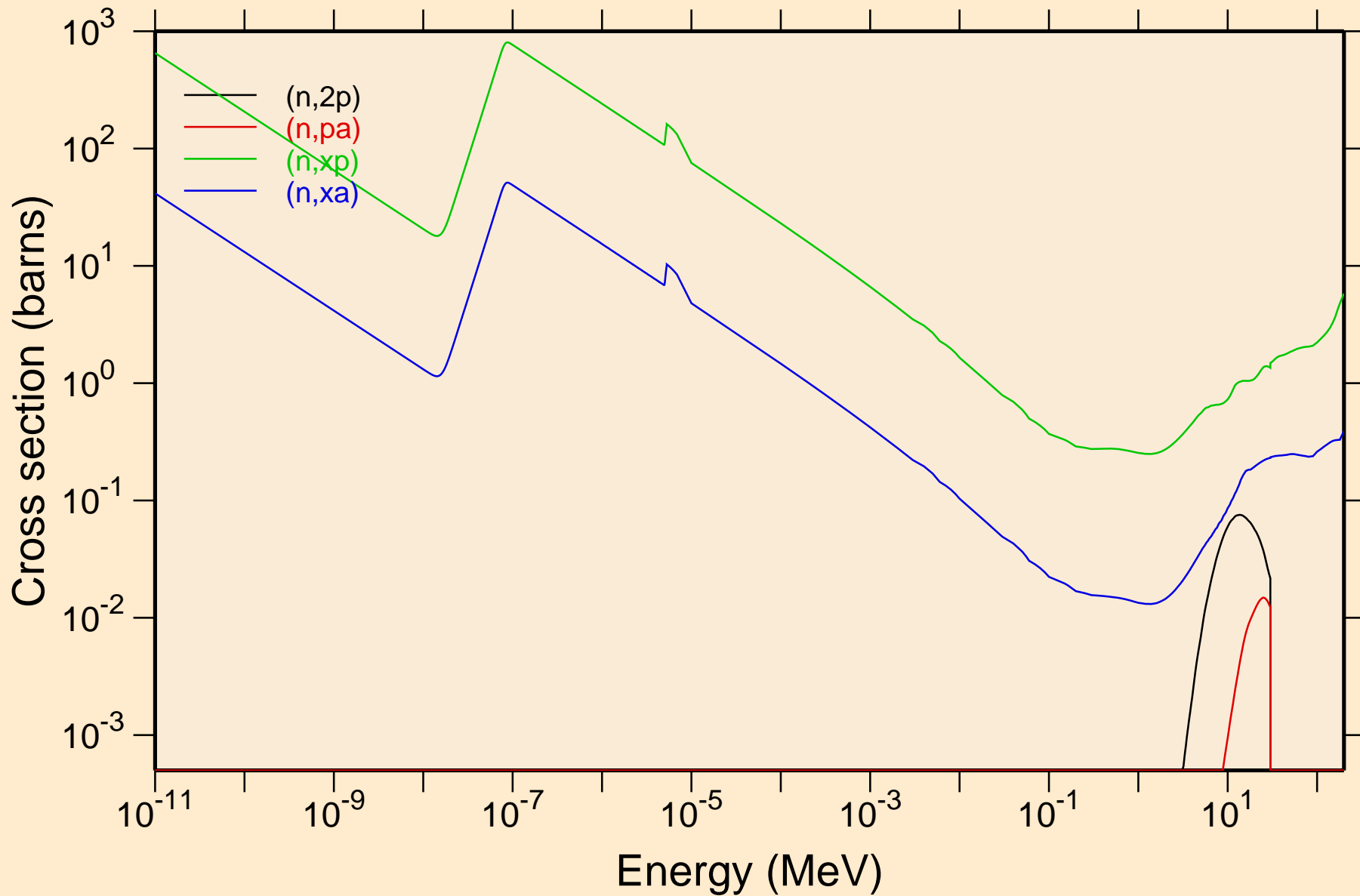


# HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Non-threshold reactions

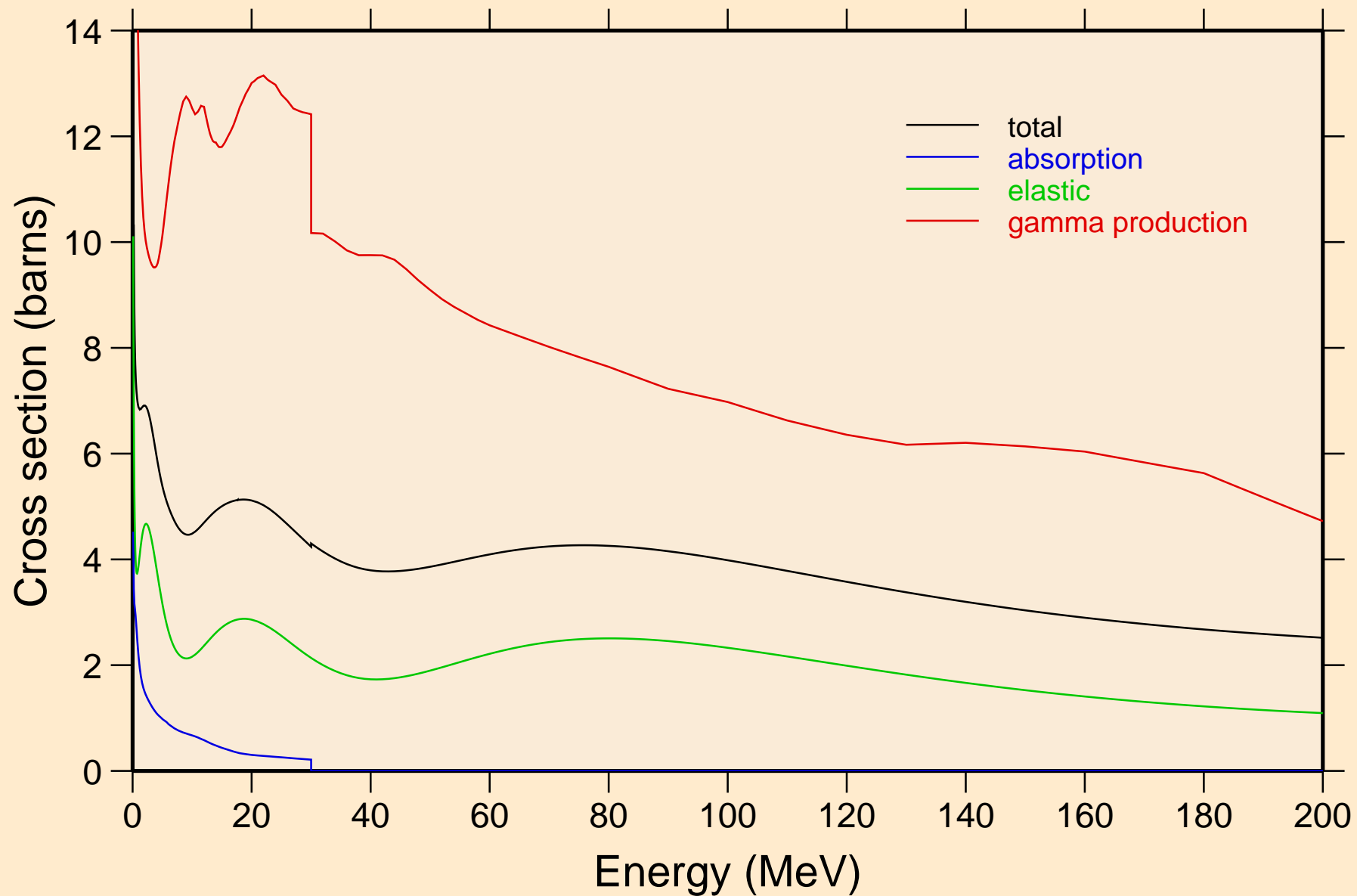


HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions

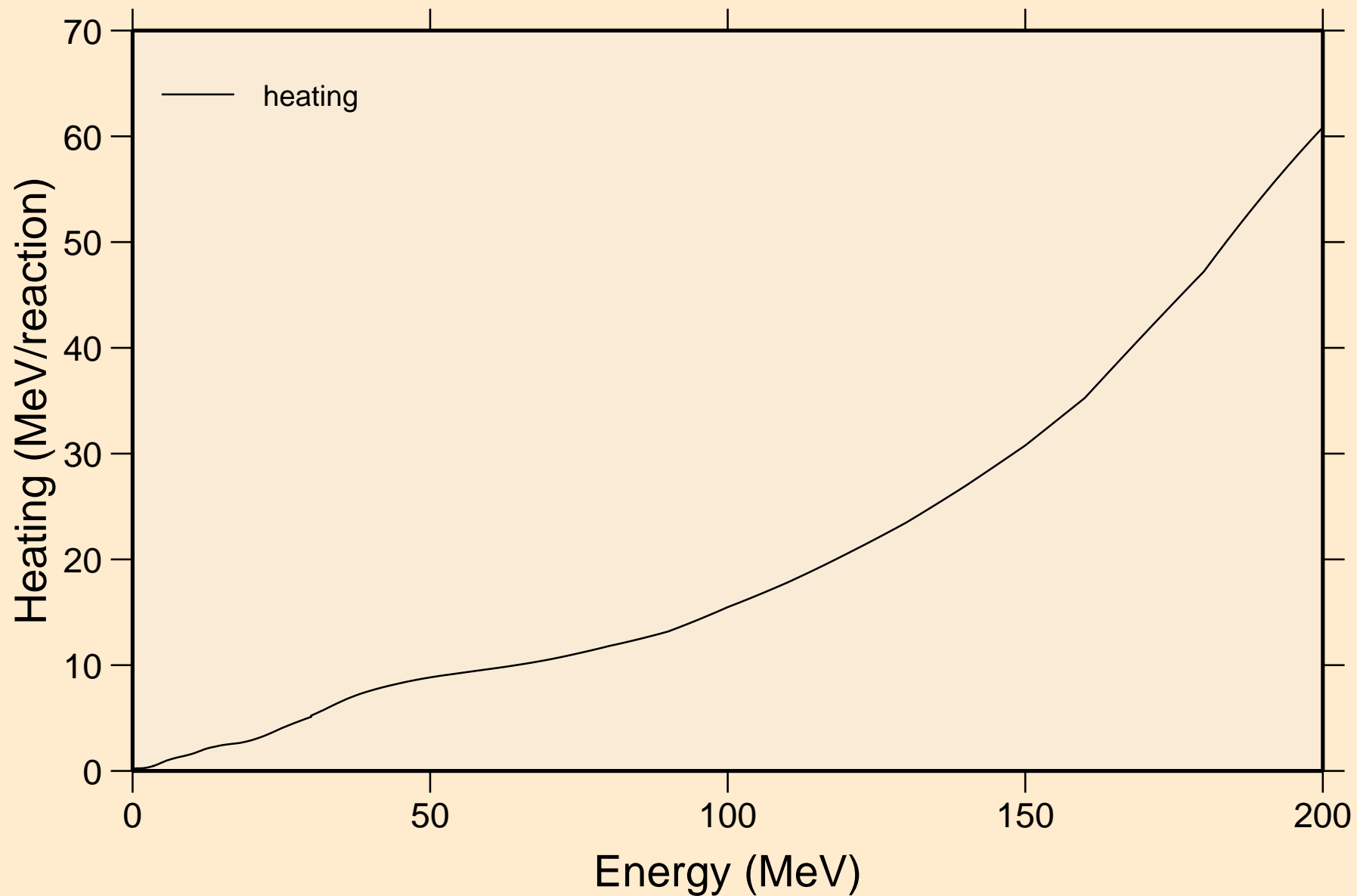


# HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

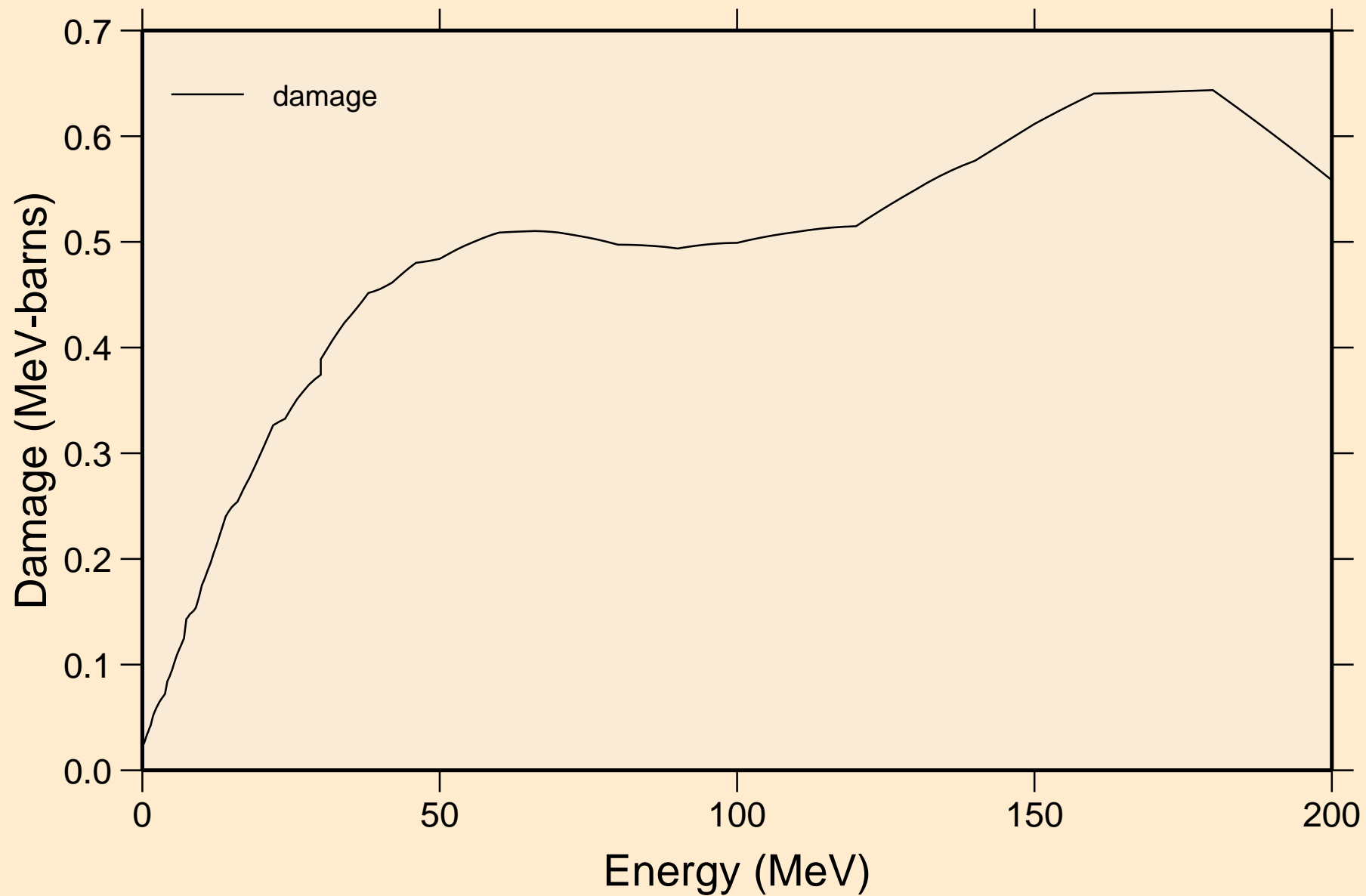
## Principal cross sections



HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating

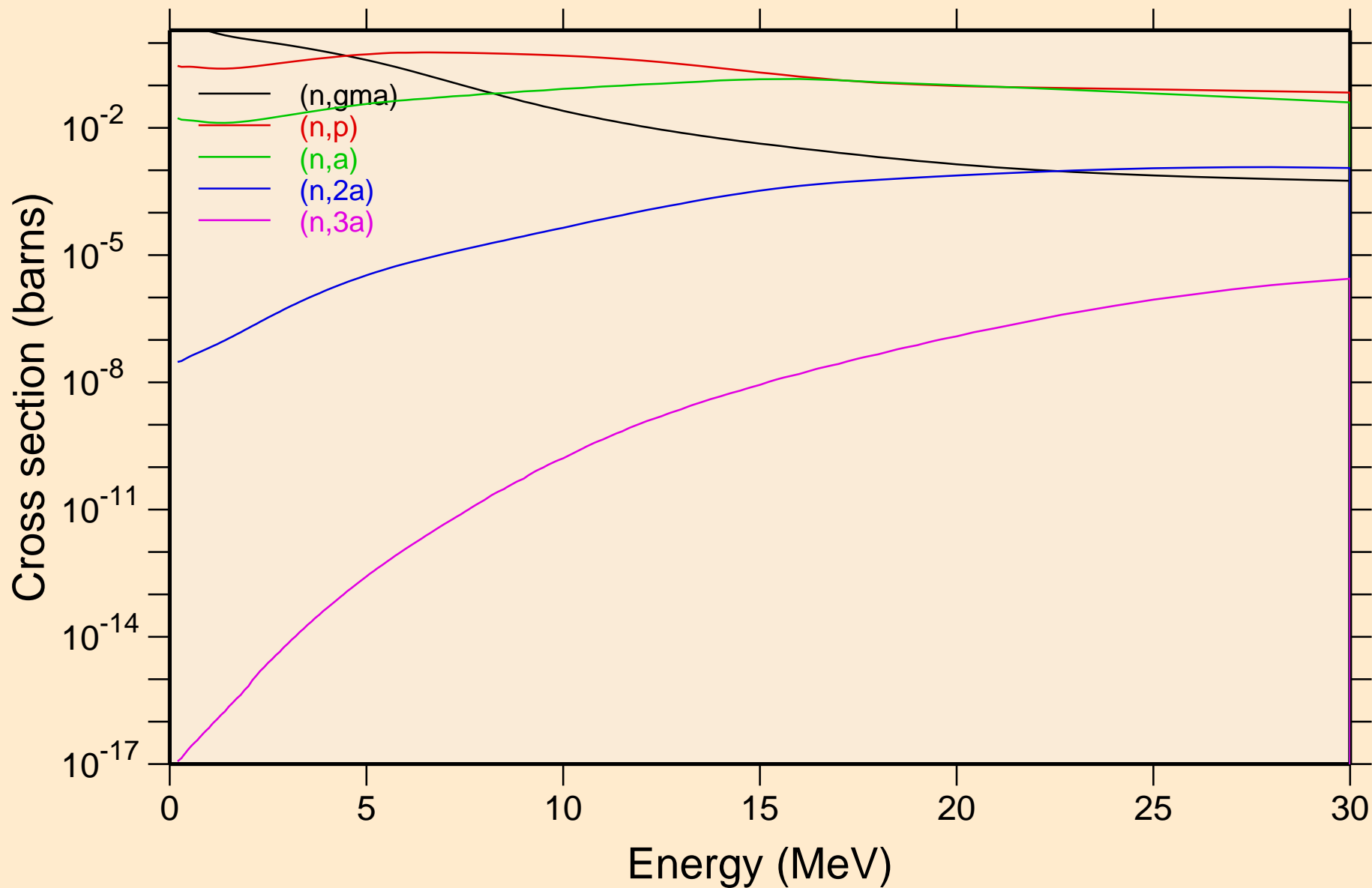


HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Damage

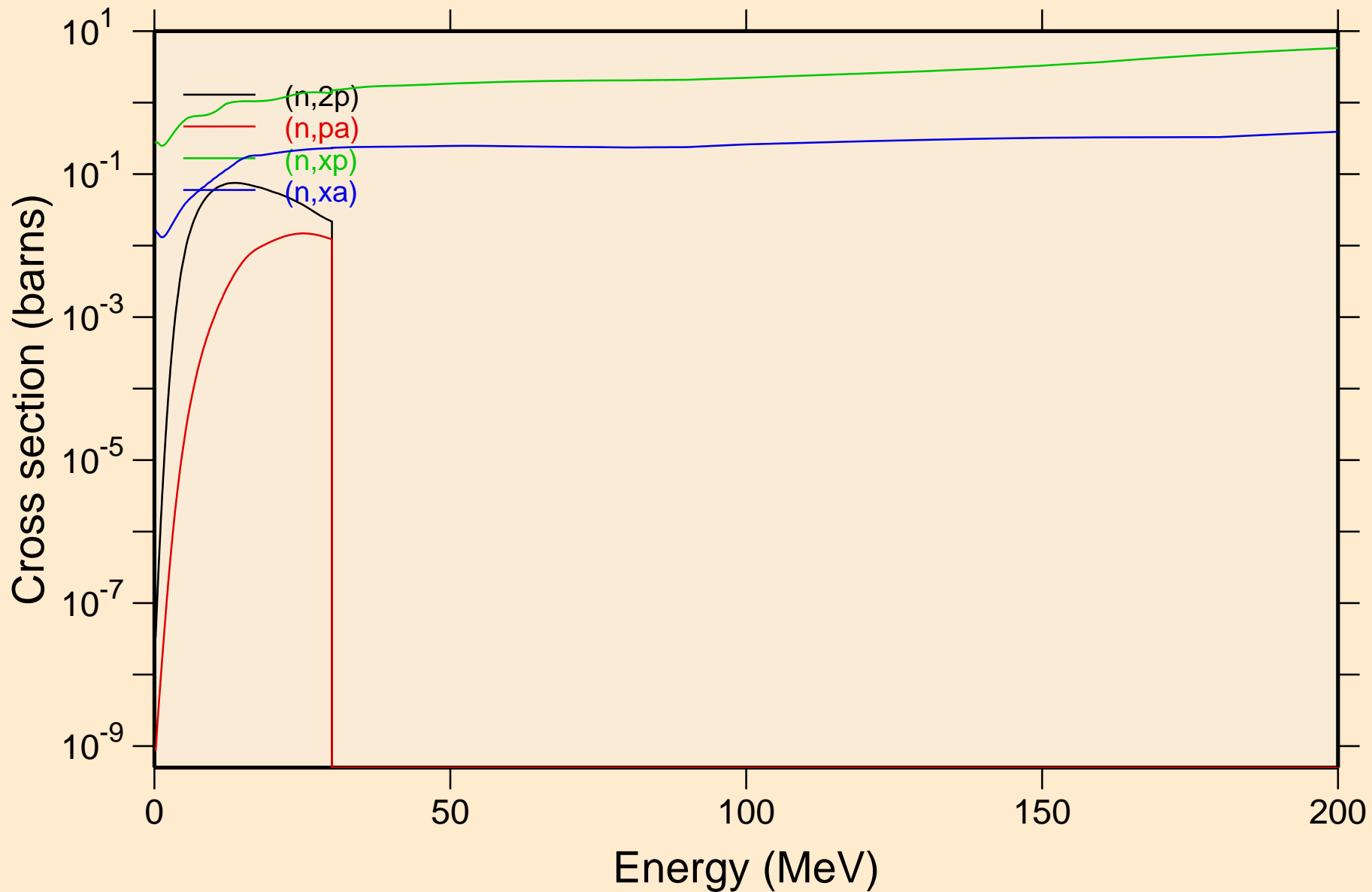




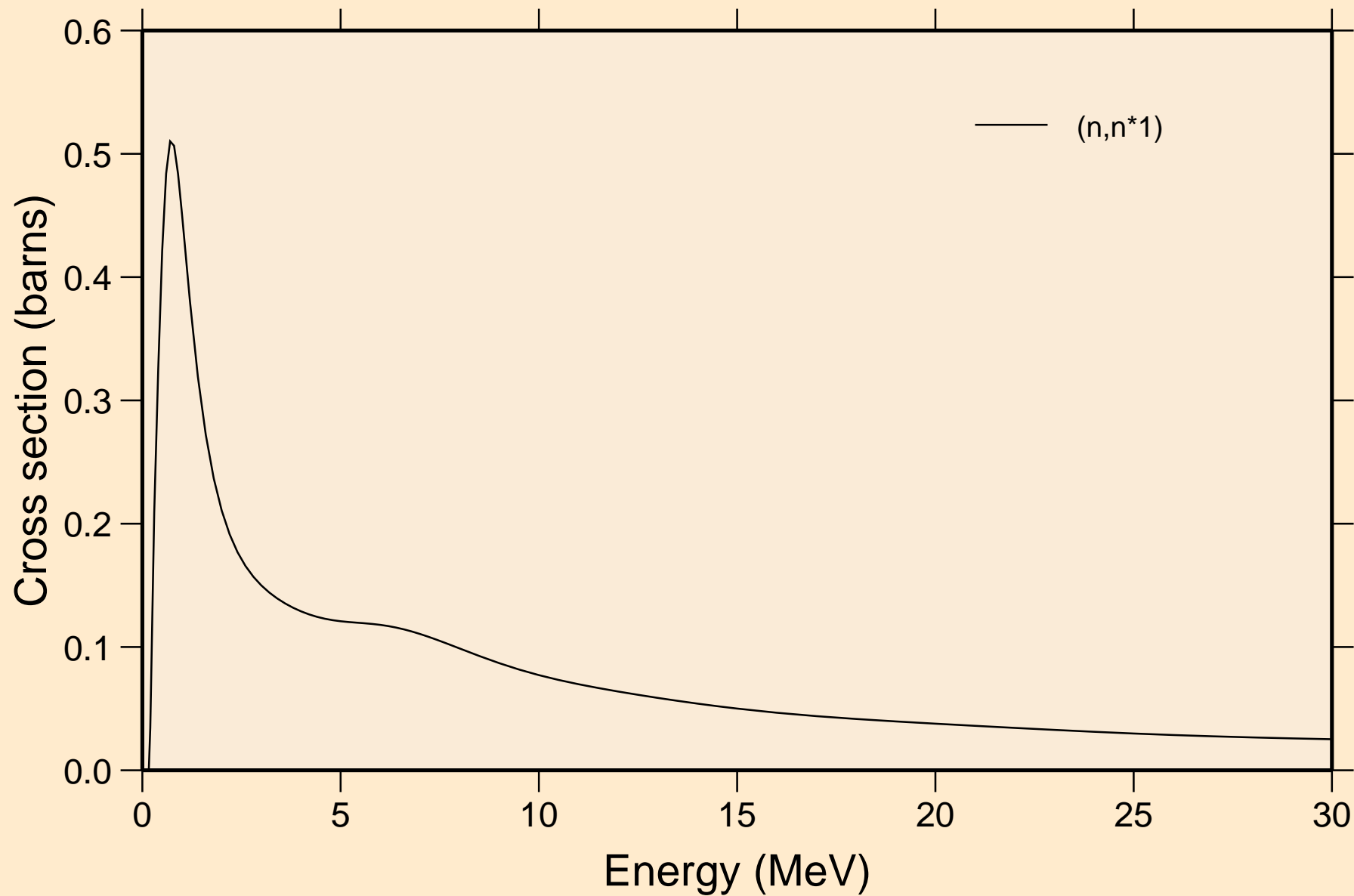
HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions



HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions

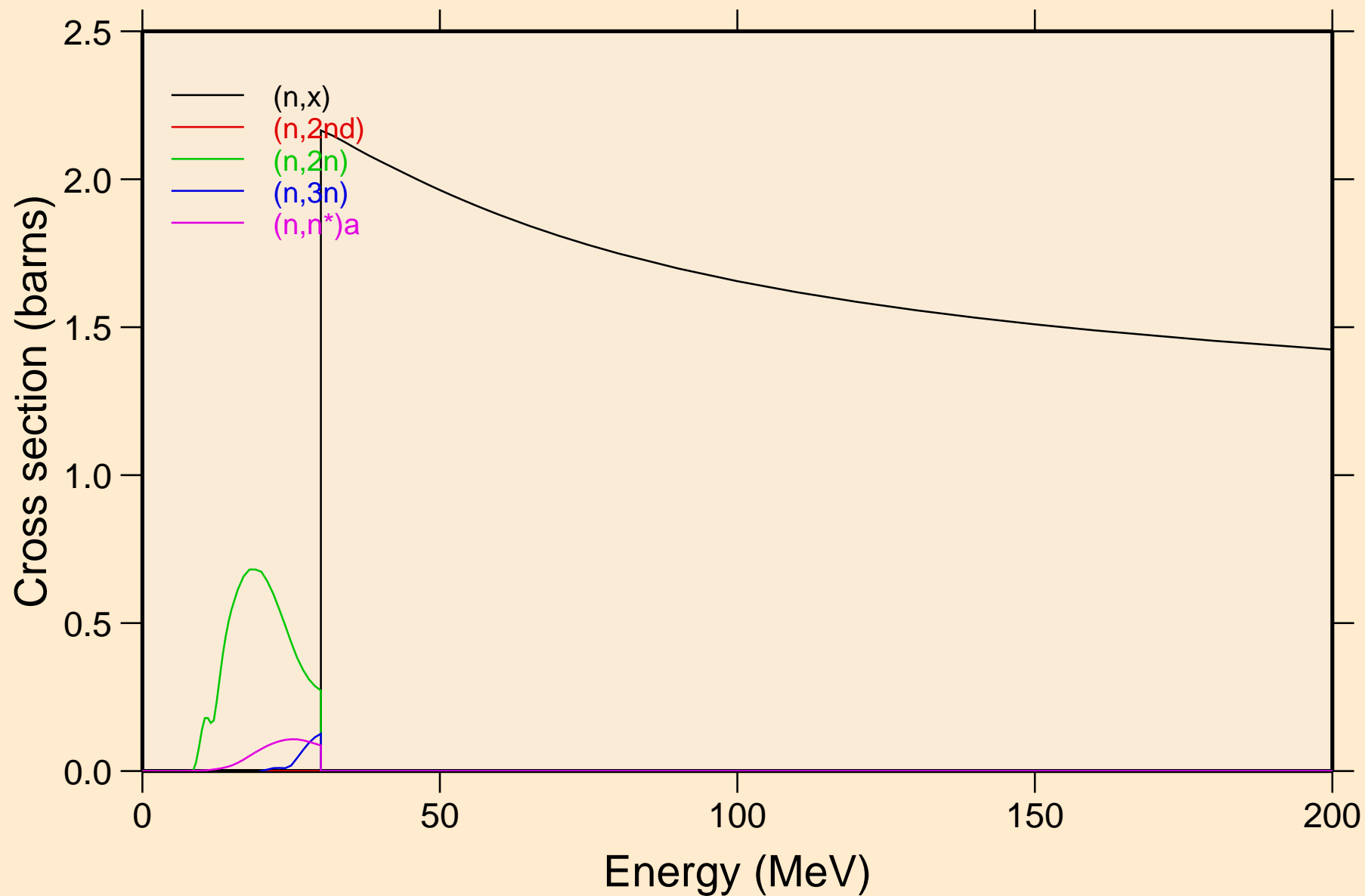


HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels

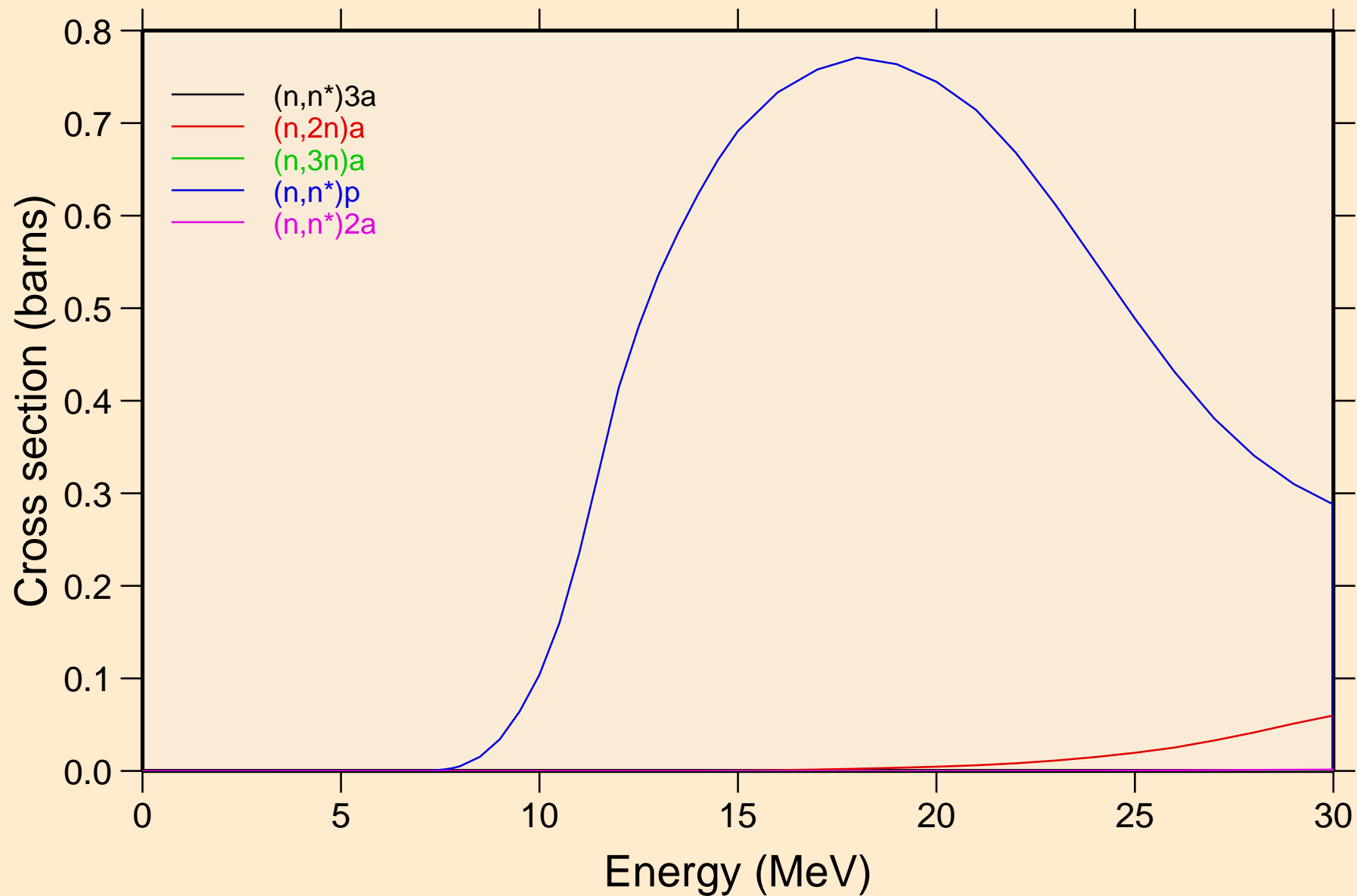


# HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Threshold reactions

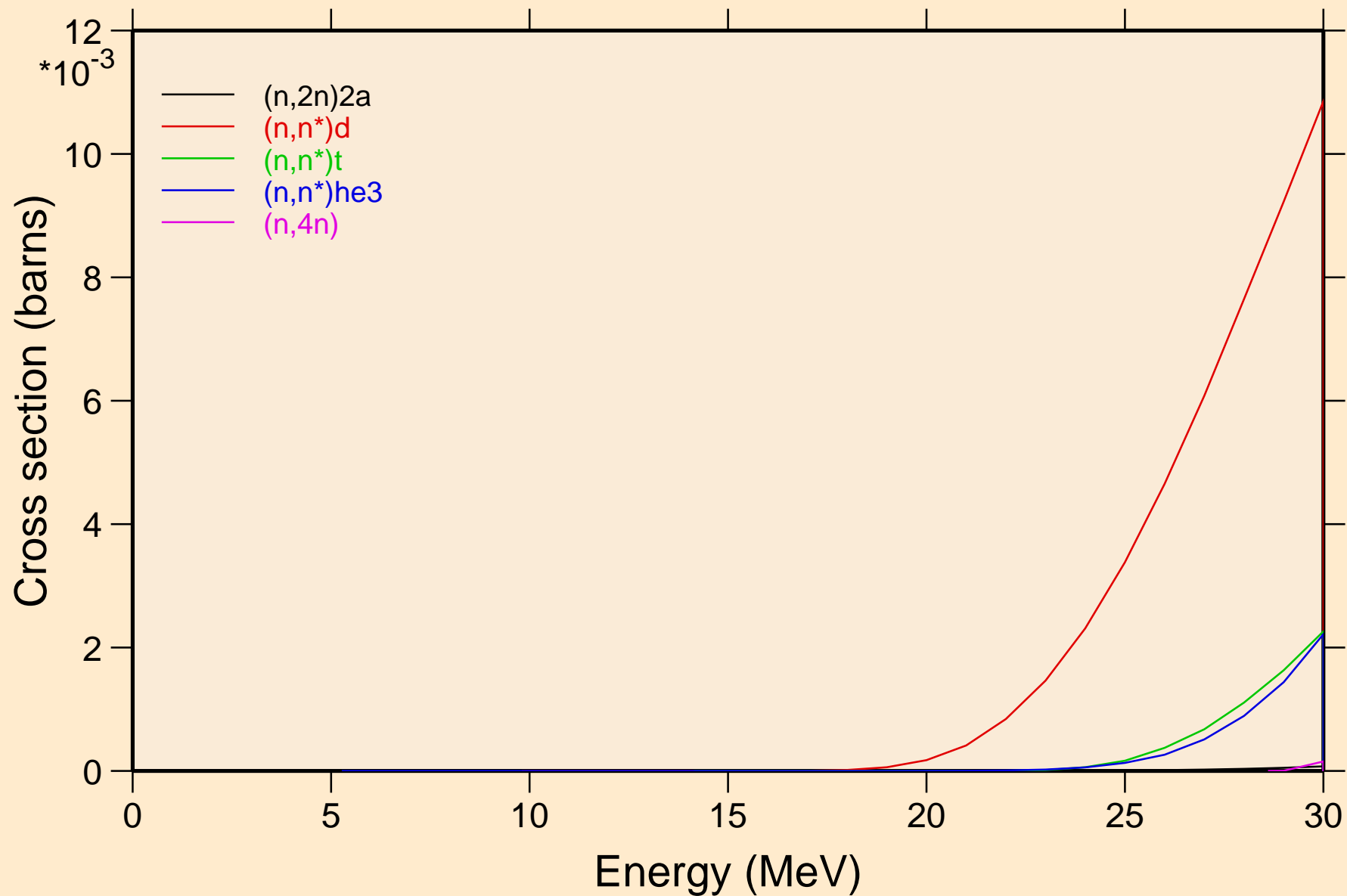


HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



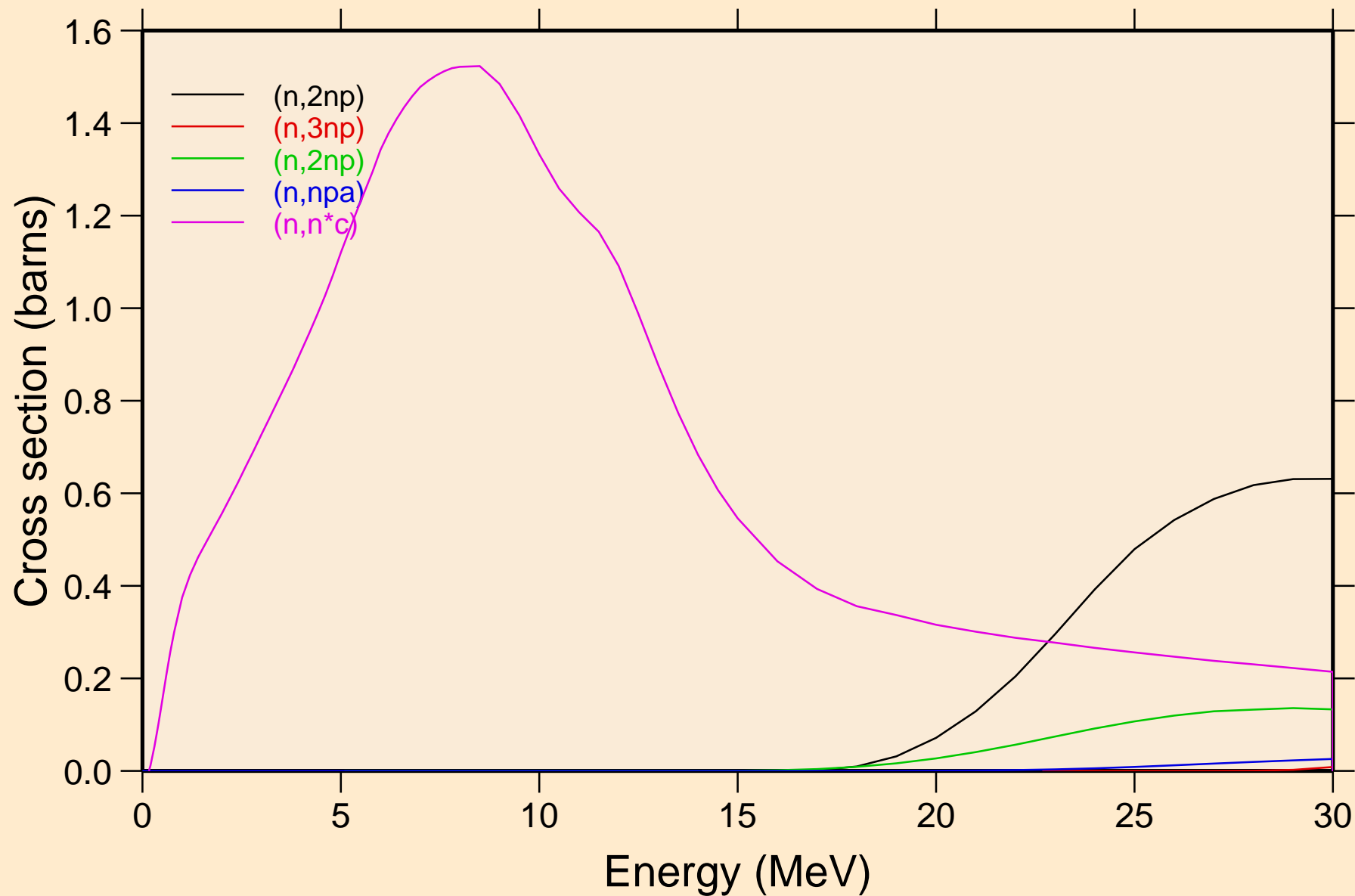
# HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Threshold reactions

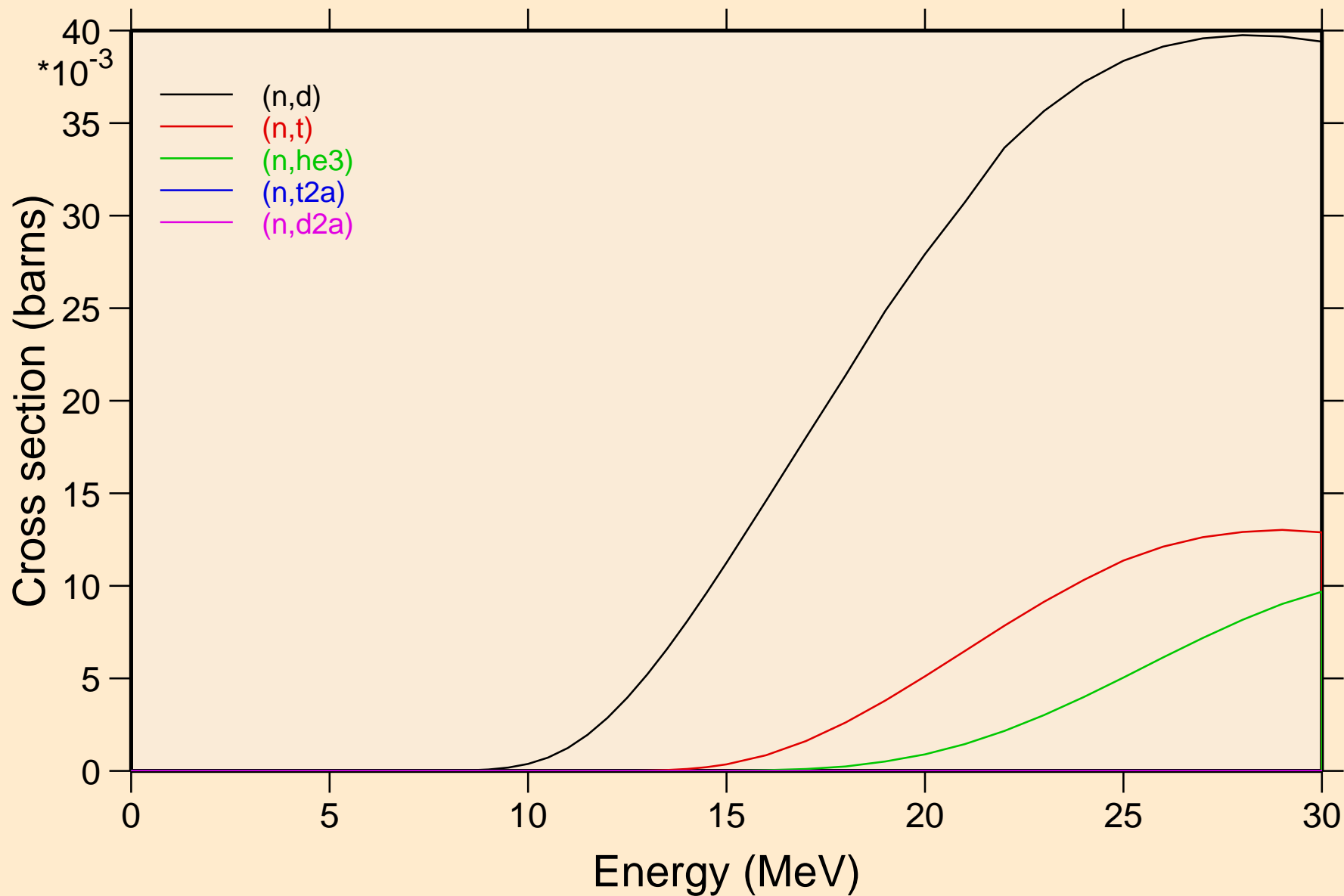


# HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Threshold reactions

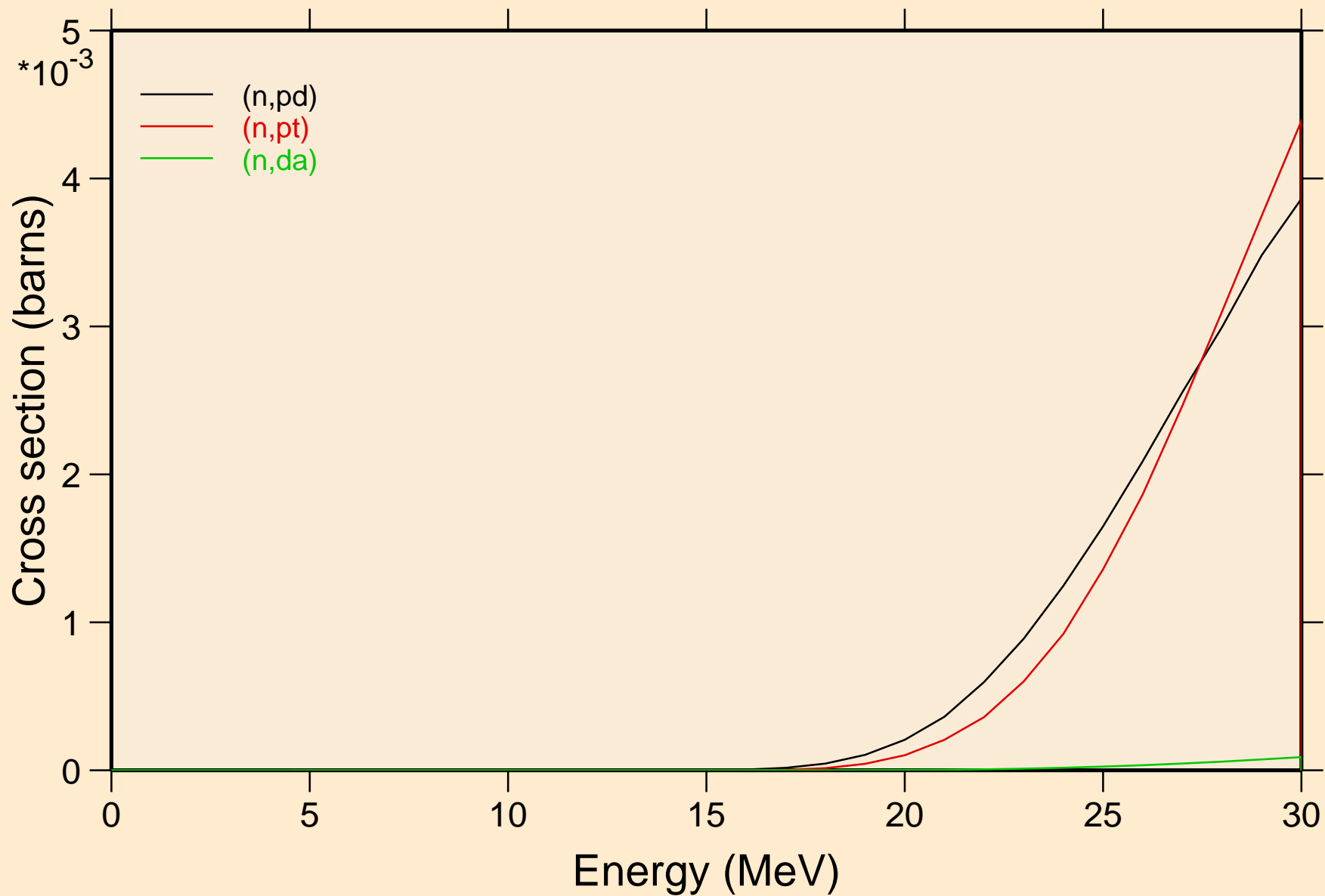


HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions

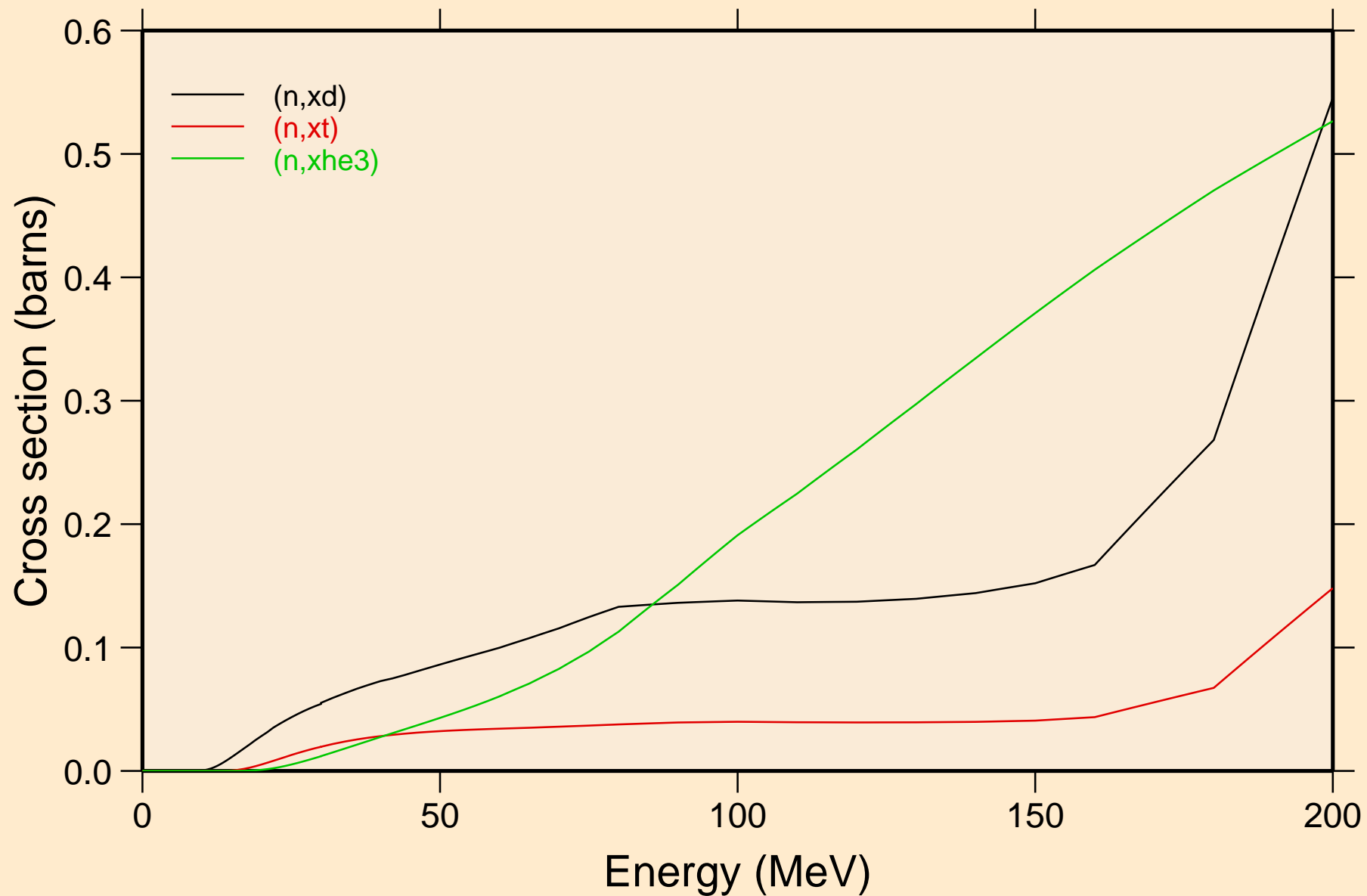




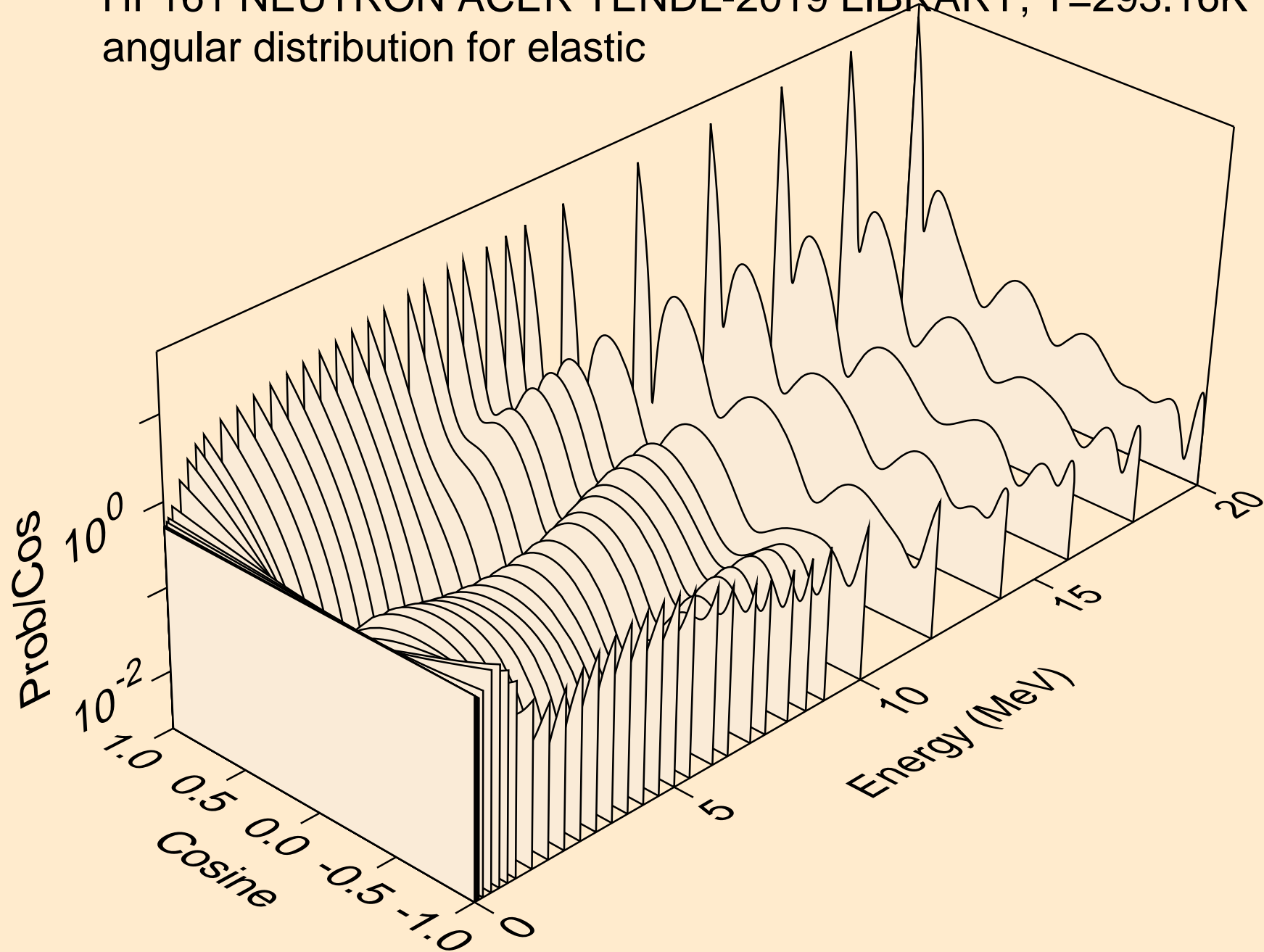
HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



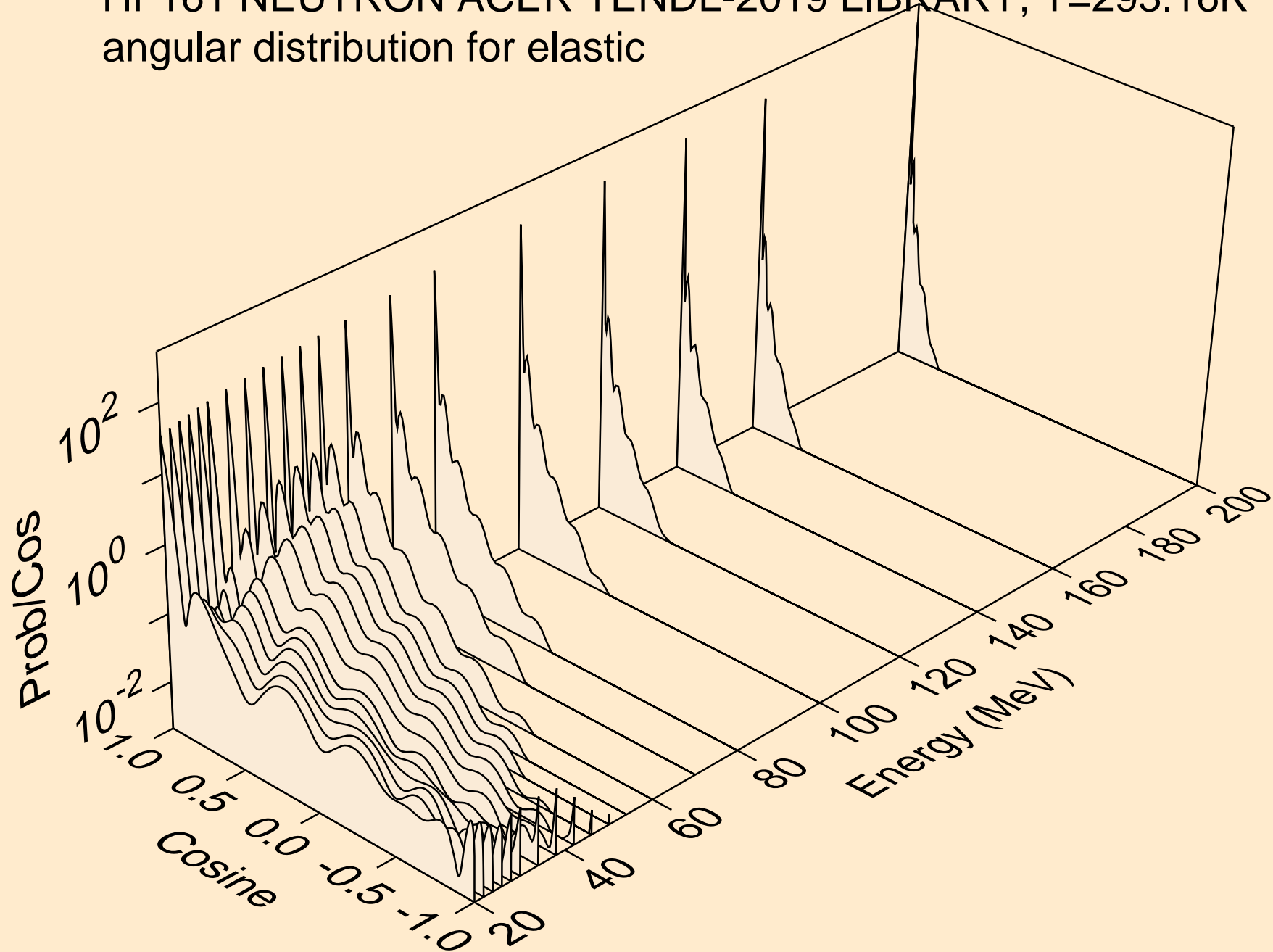
HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



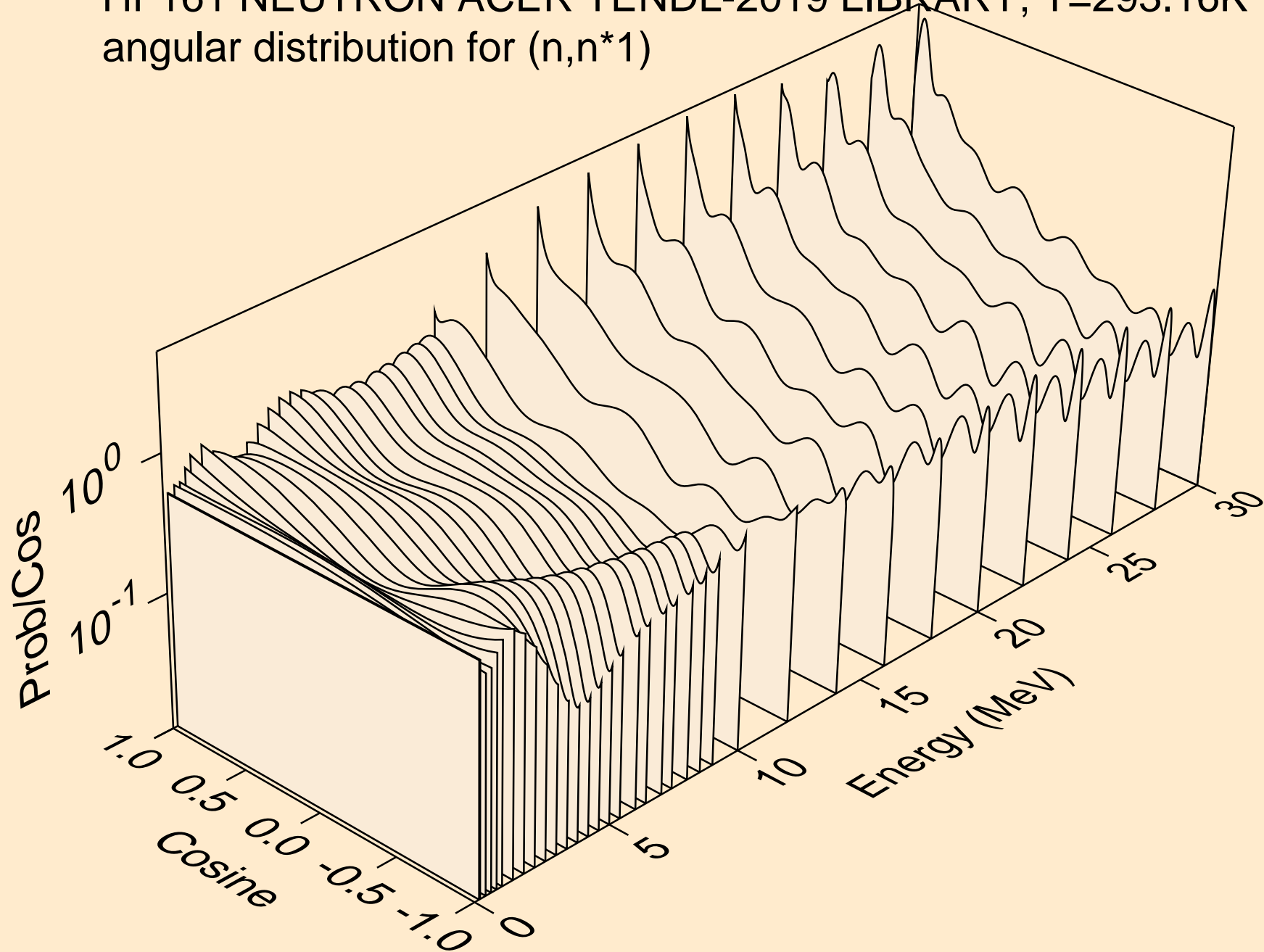
HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for elastic



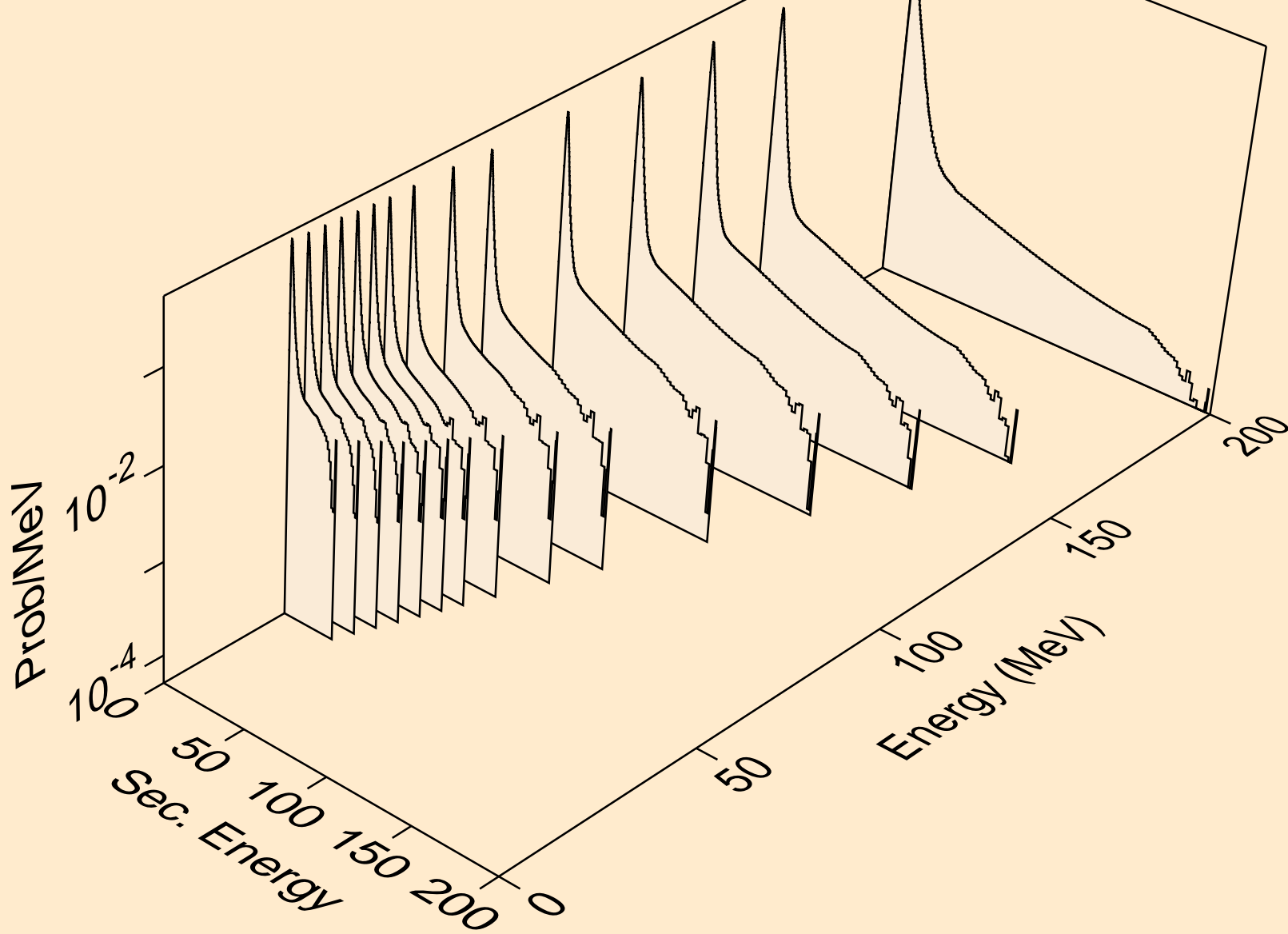
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angular distribution for elastic



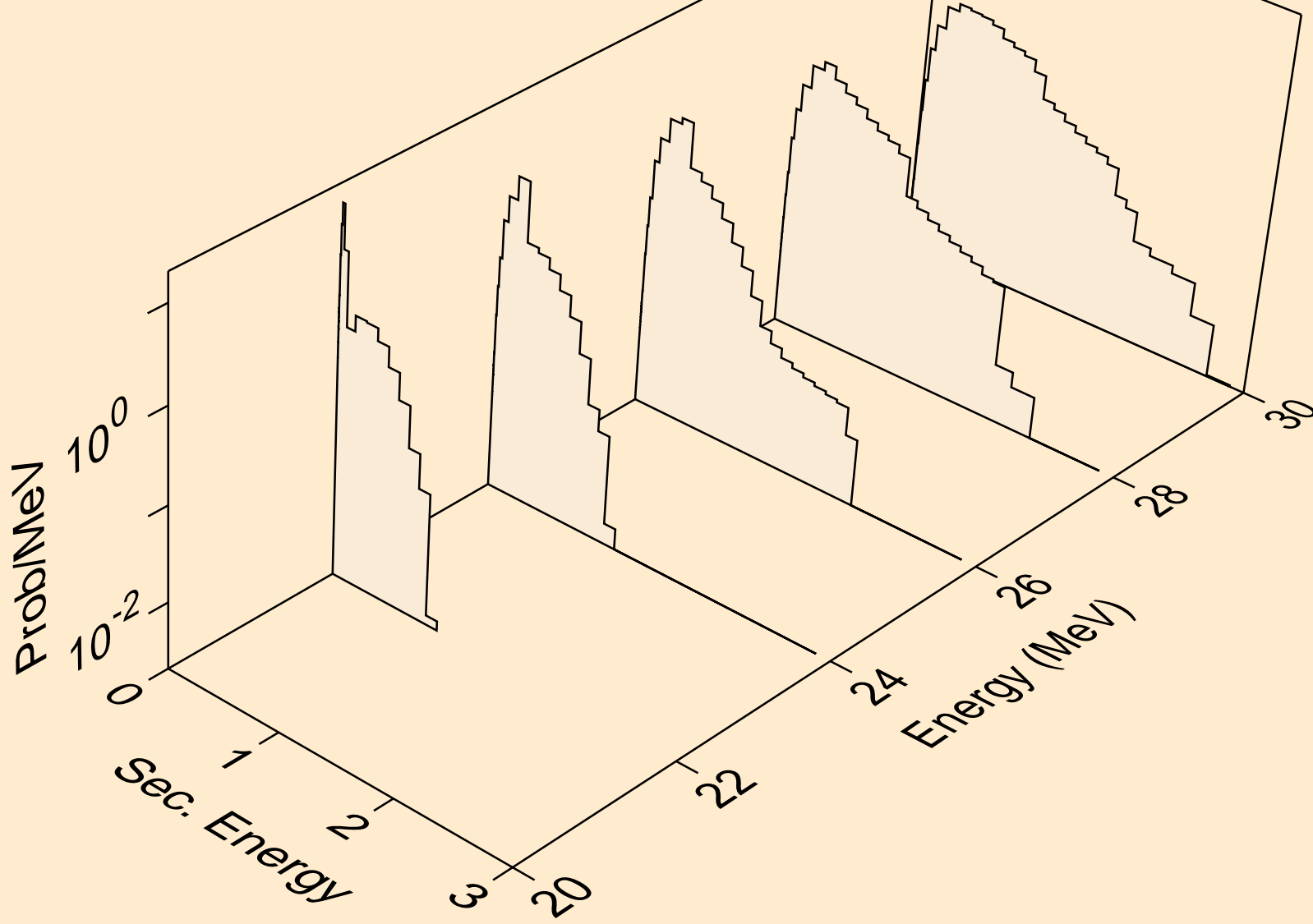
HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*1)



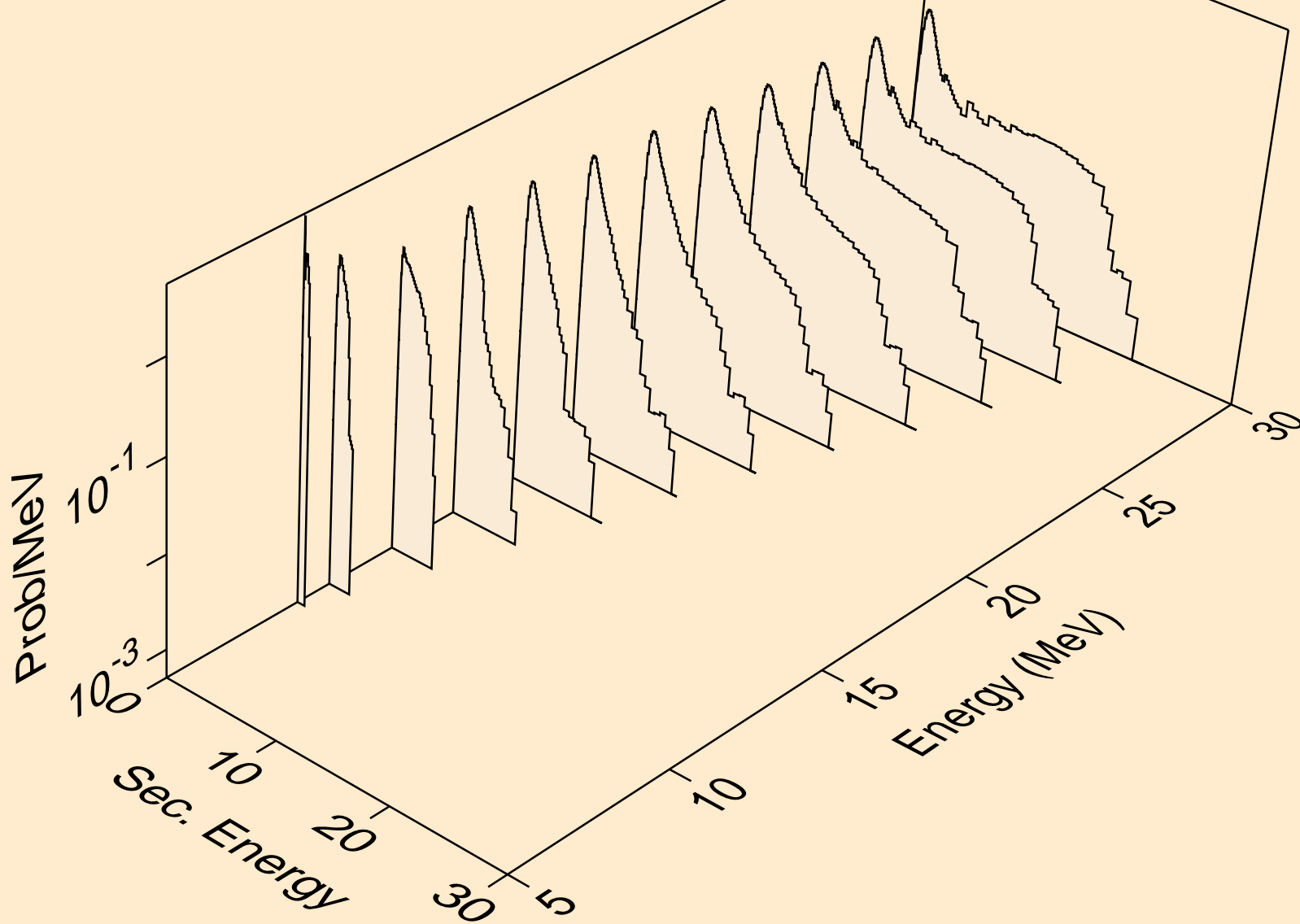
HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,x)



HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2nd)

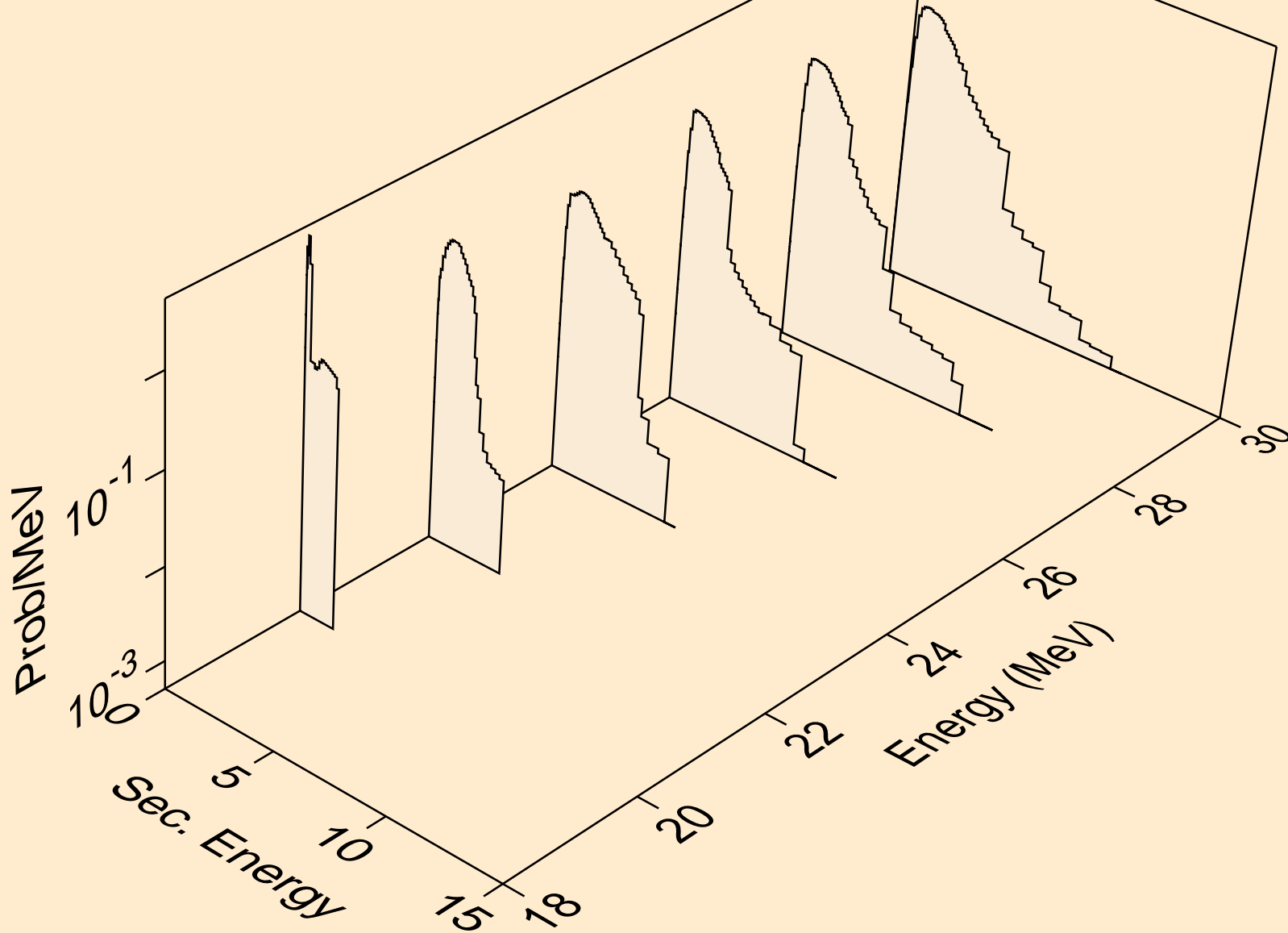


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Neutron emission for (n,2n)

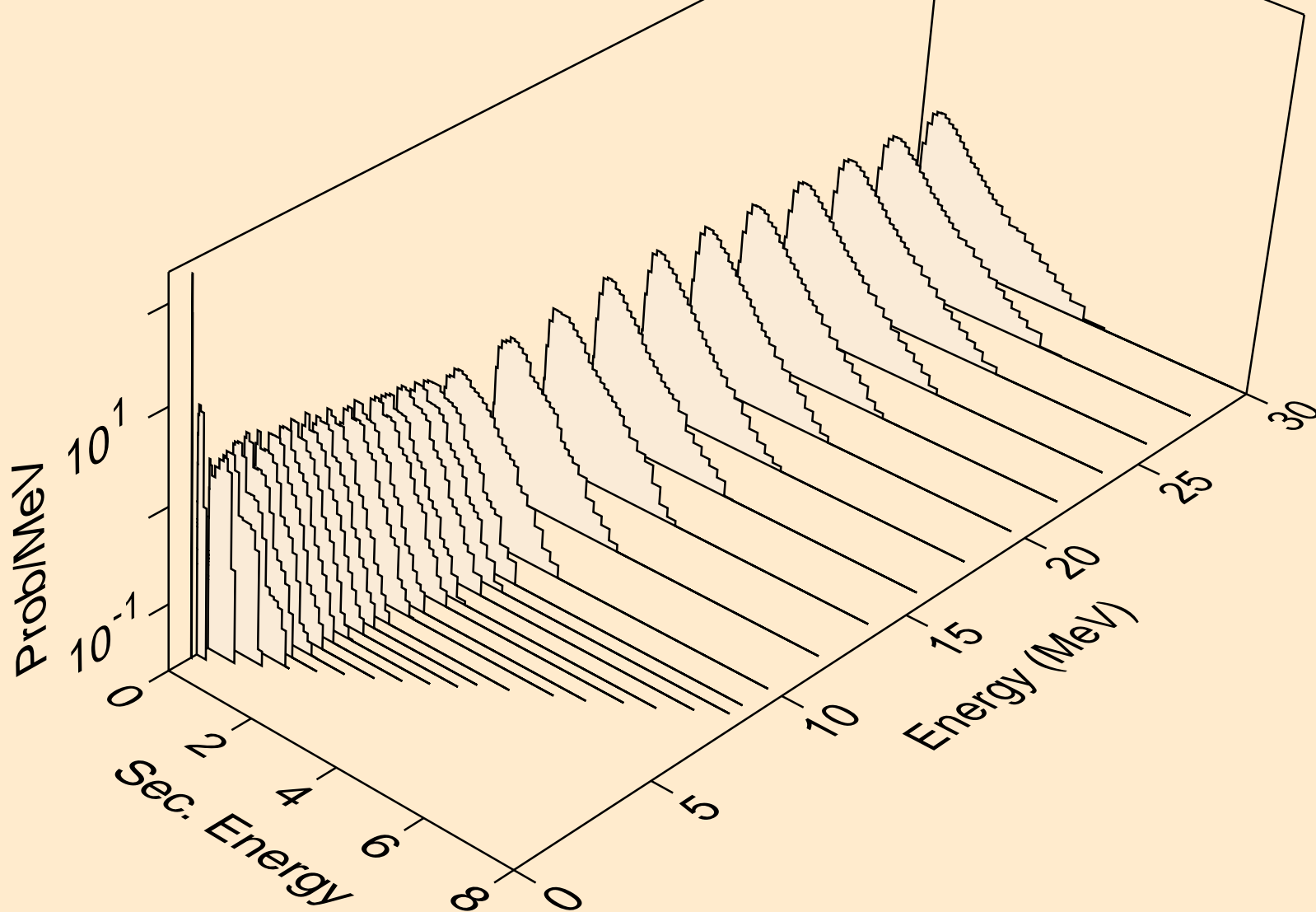




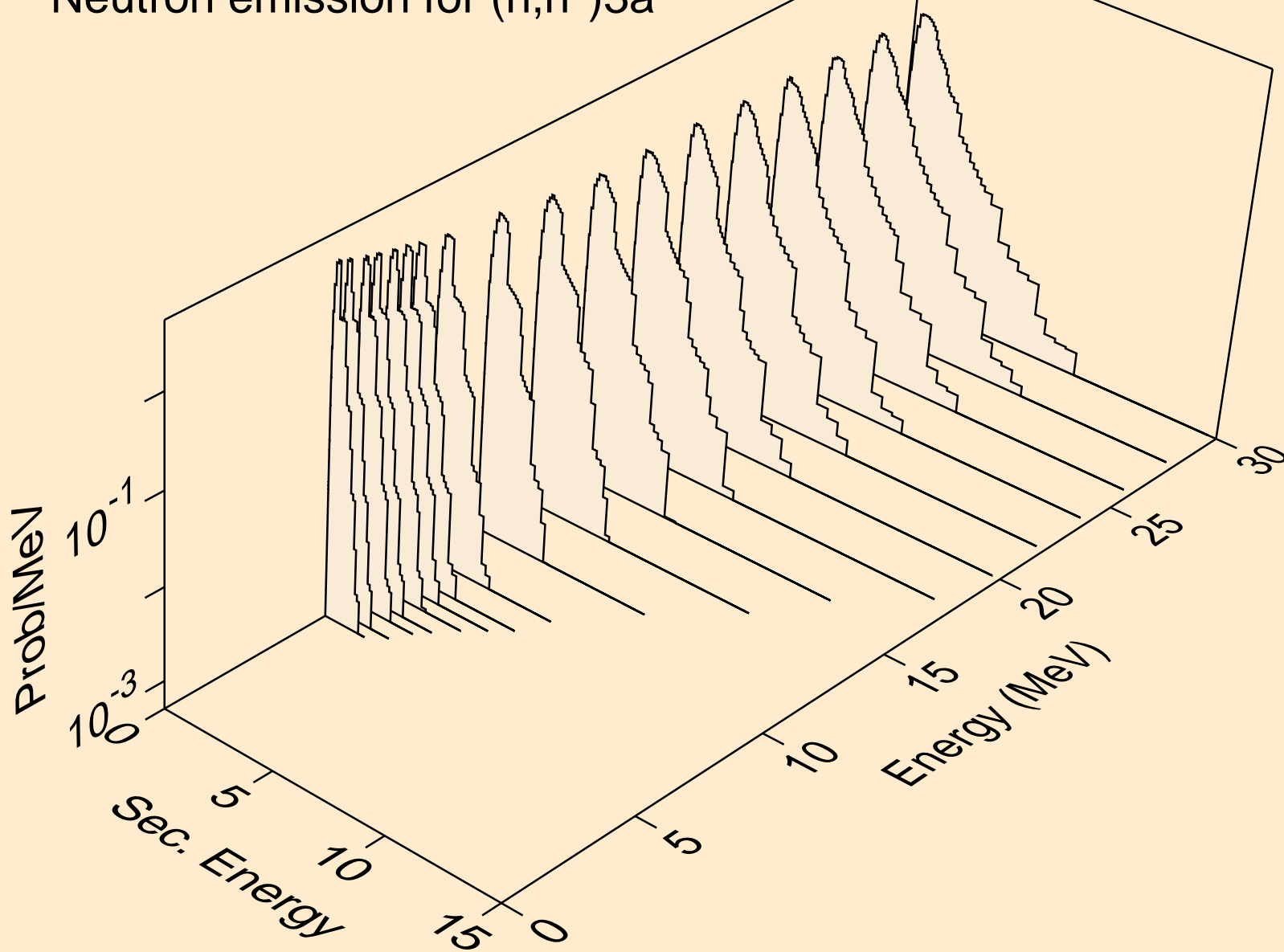
HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)



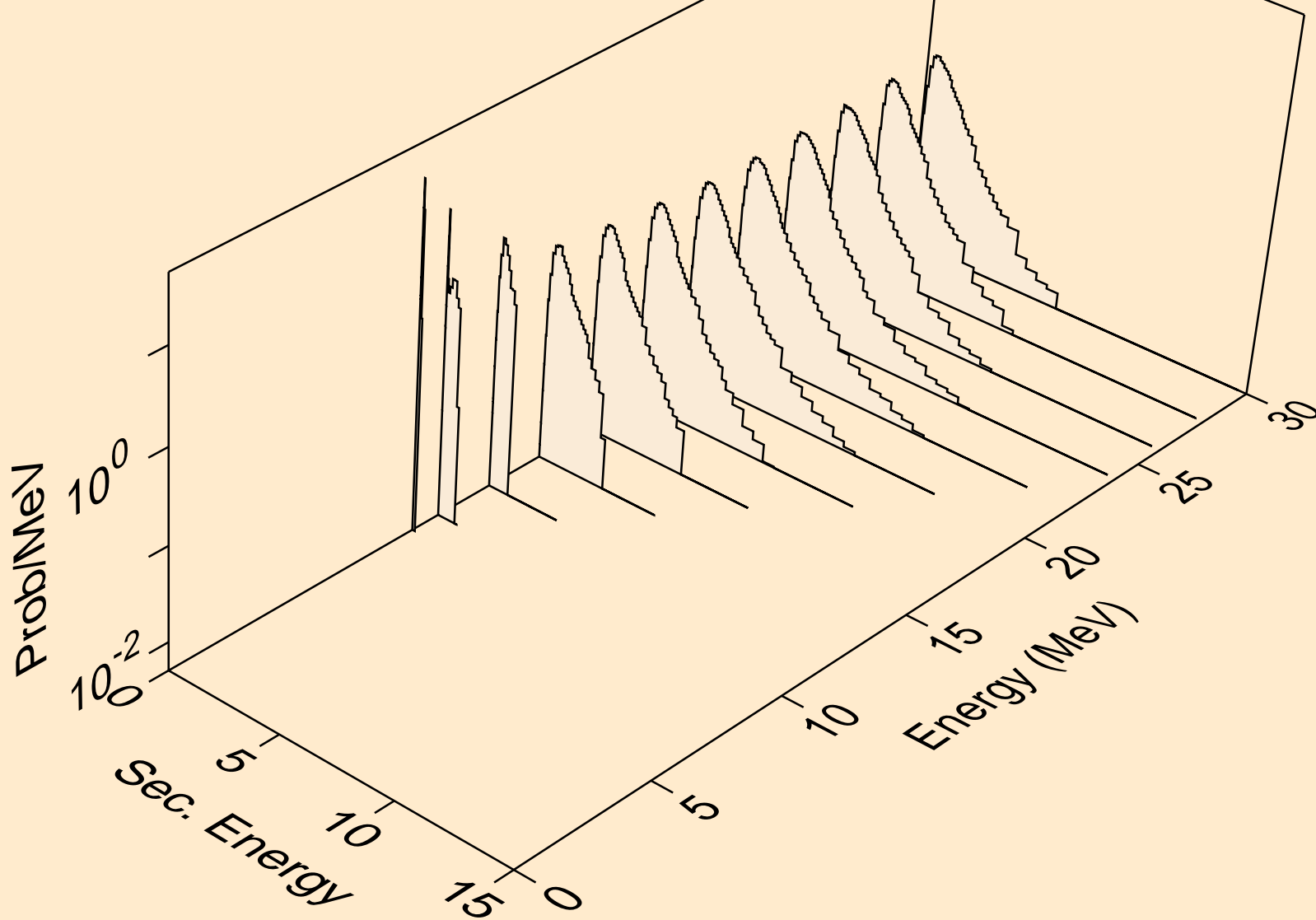
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Neutron emission for (n,n\*)a



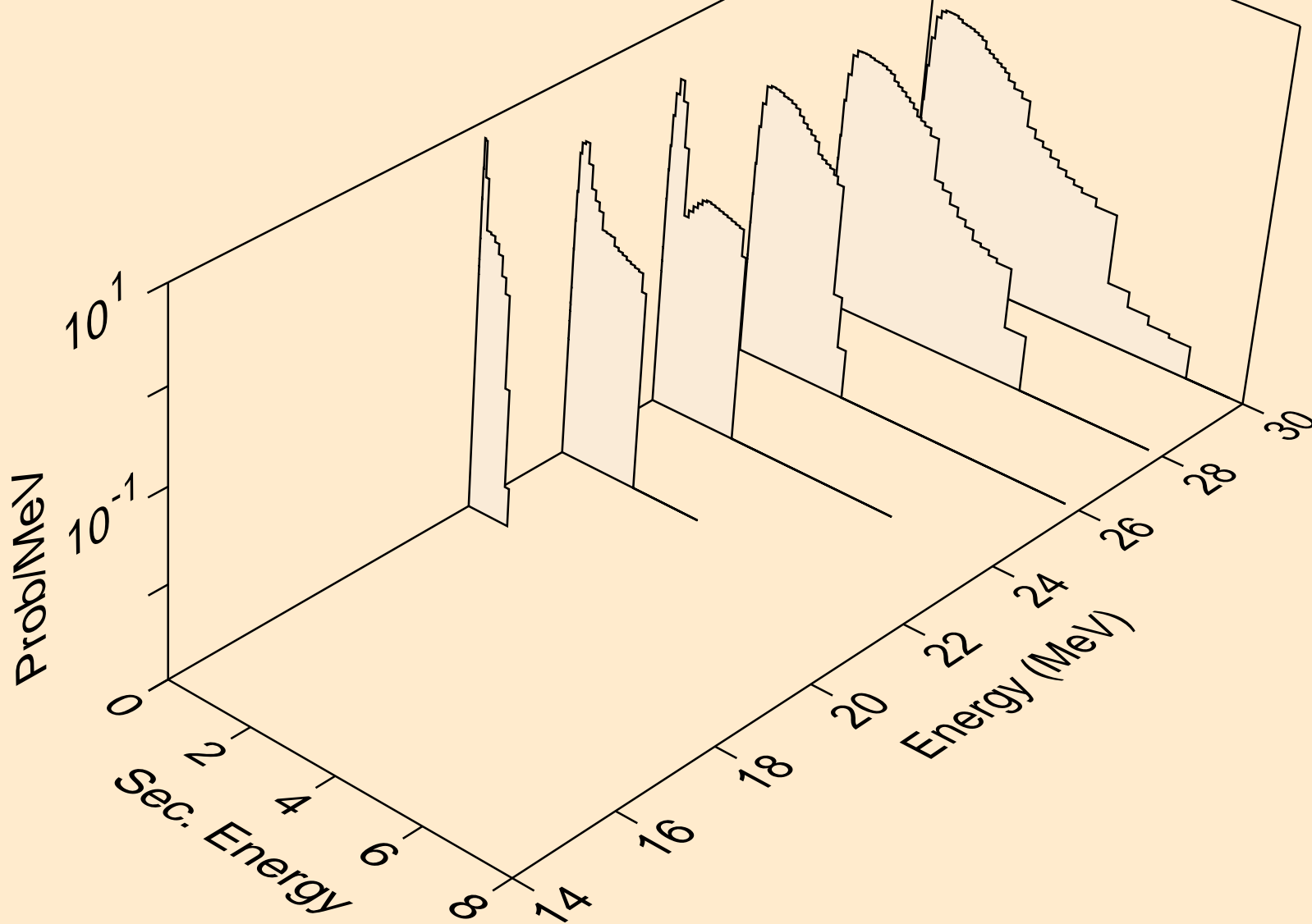
HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)3a



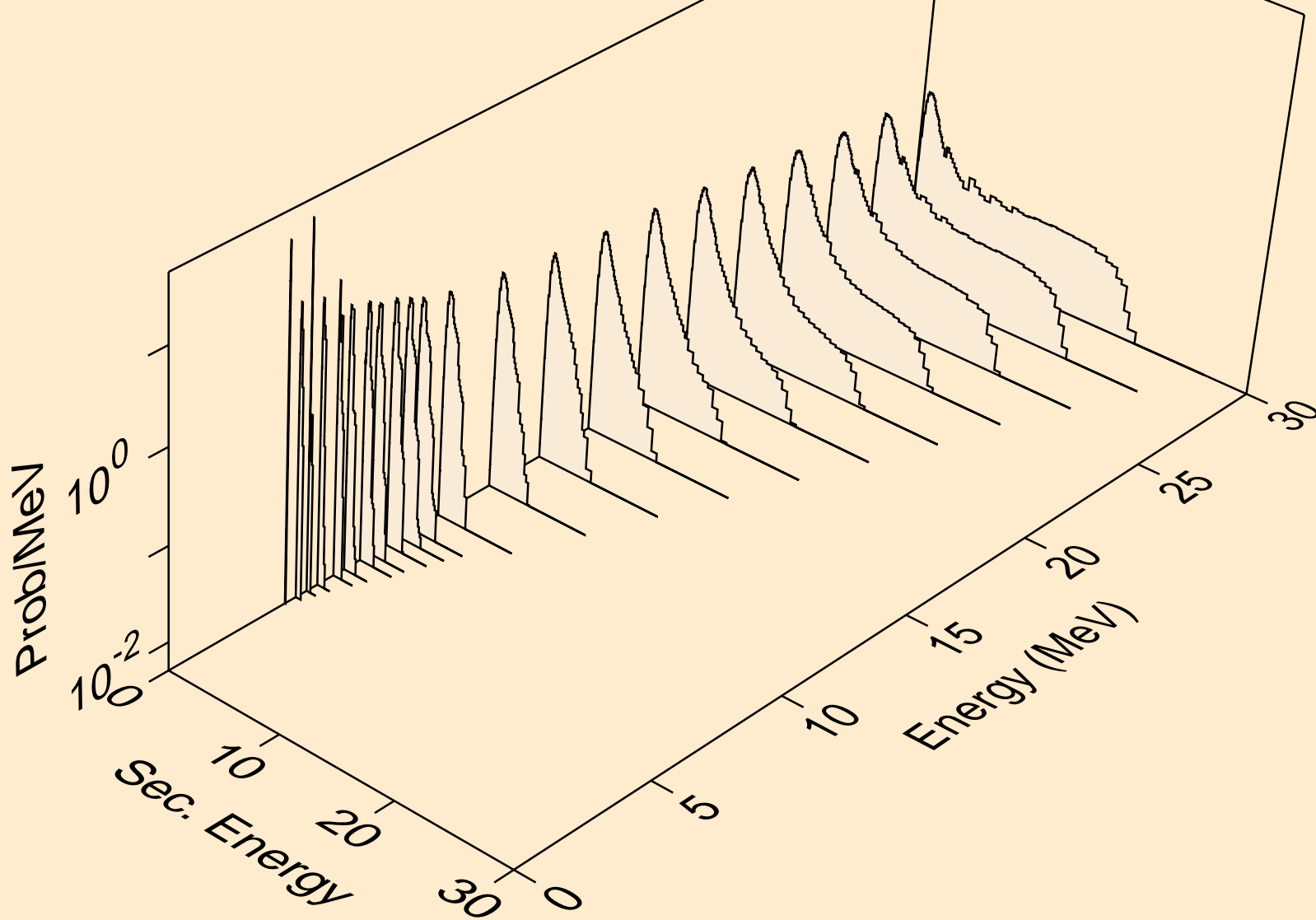
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Neutron emission for (n,2n)a



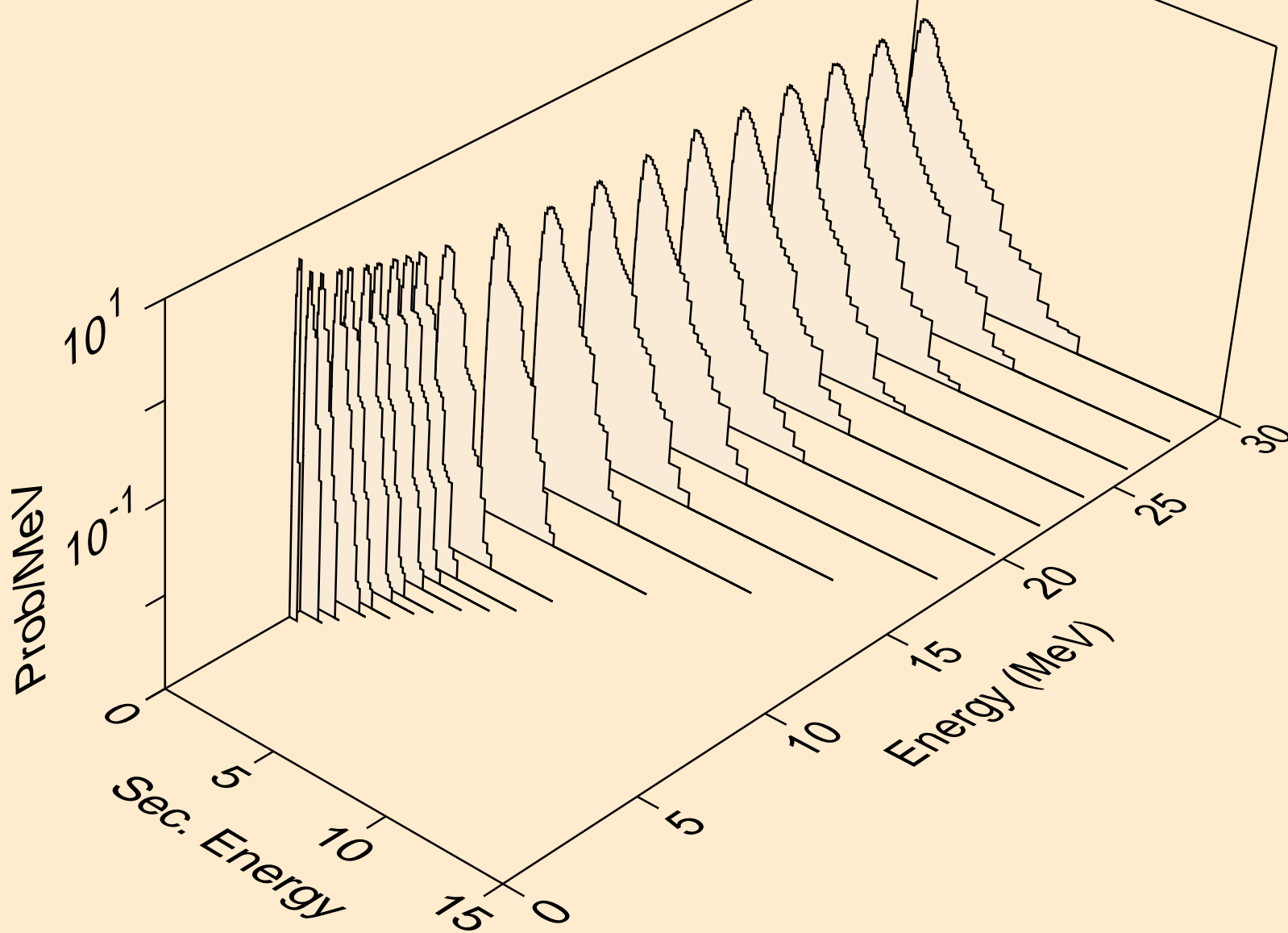
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Neutron emission for (n,3n)a



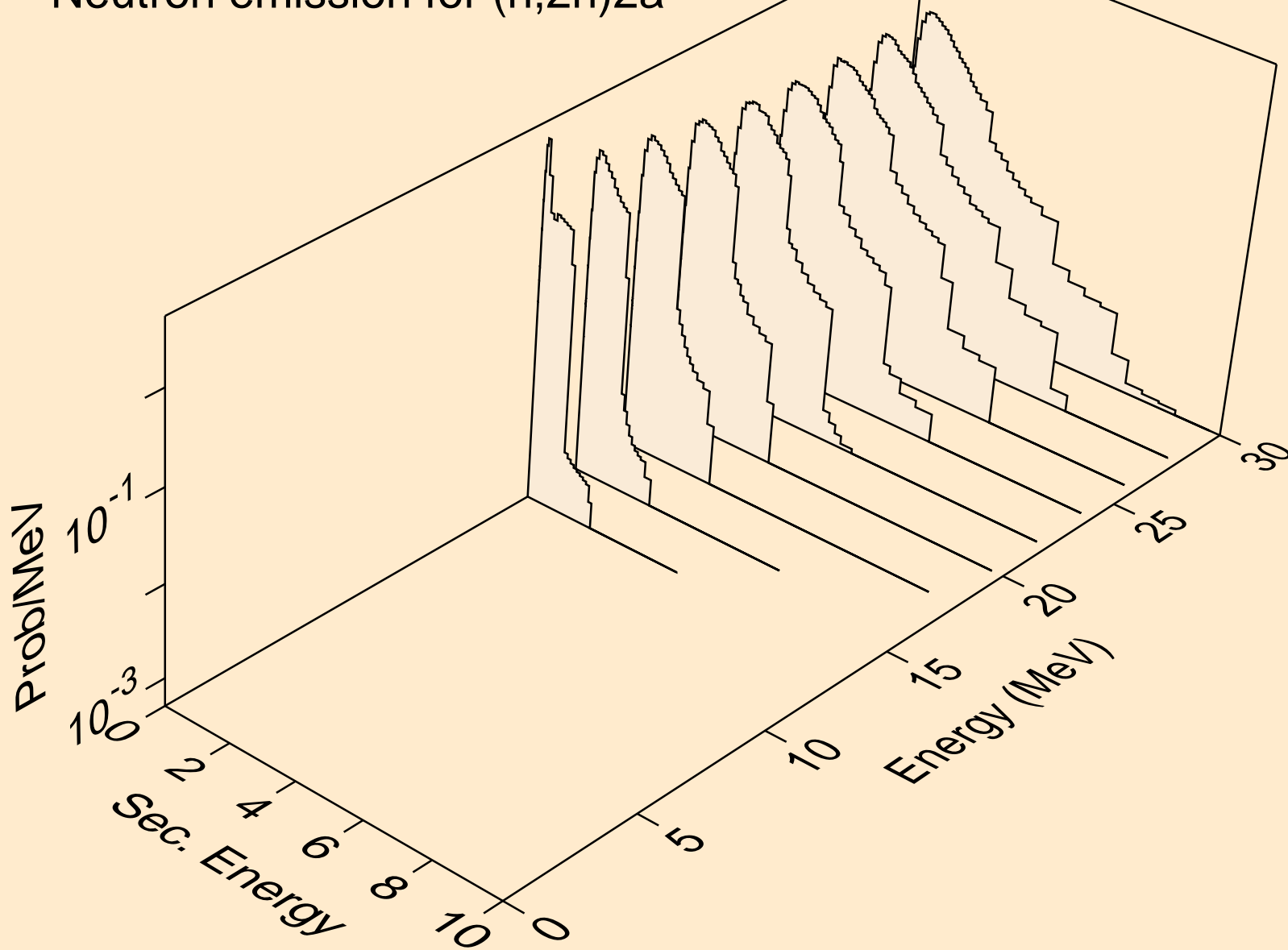
HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)p



HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)2a

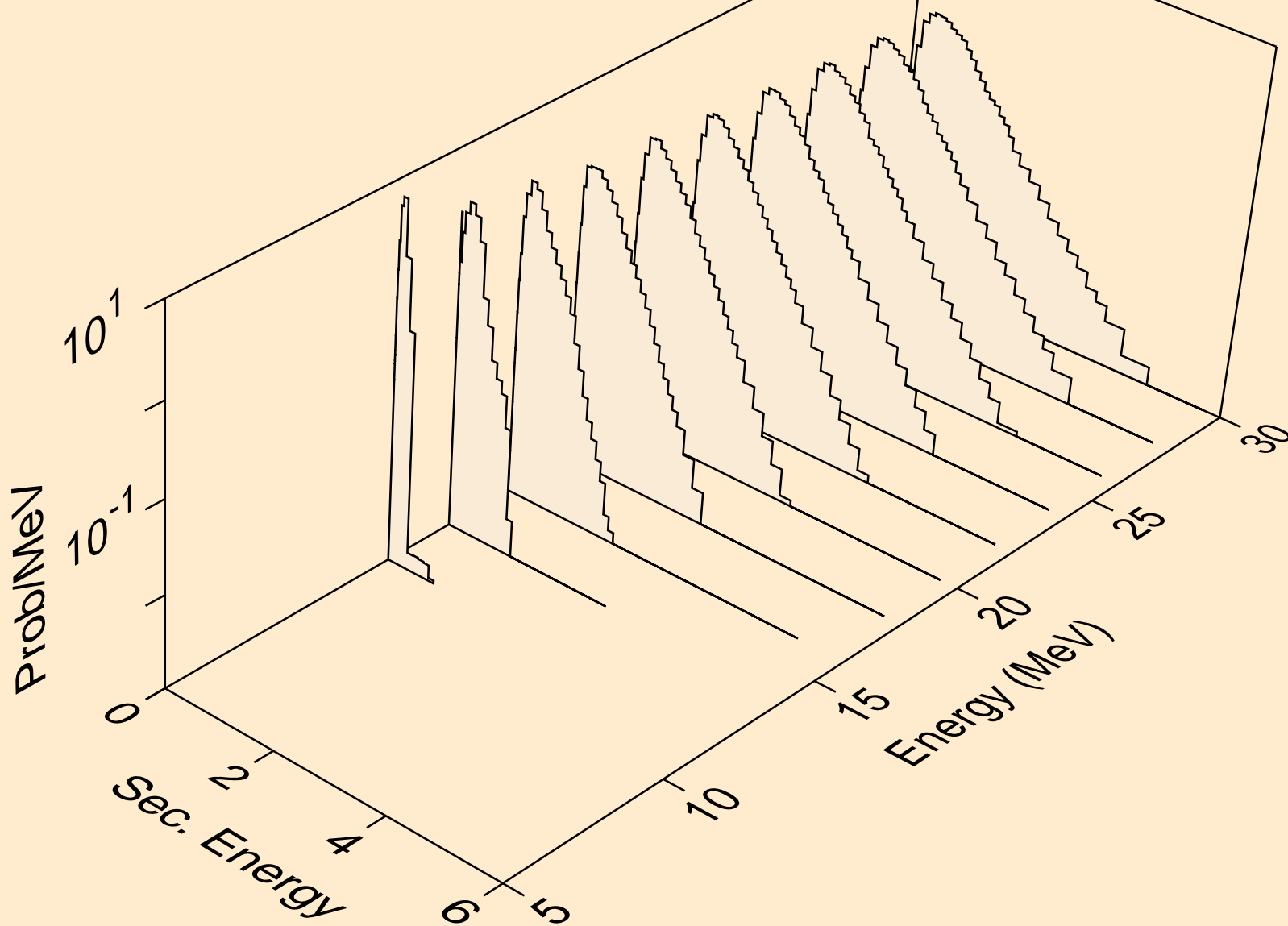


HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)2a

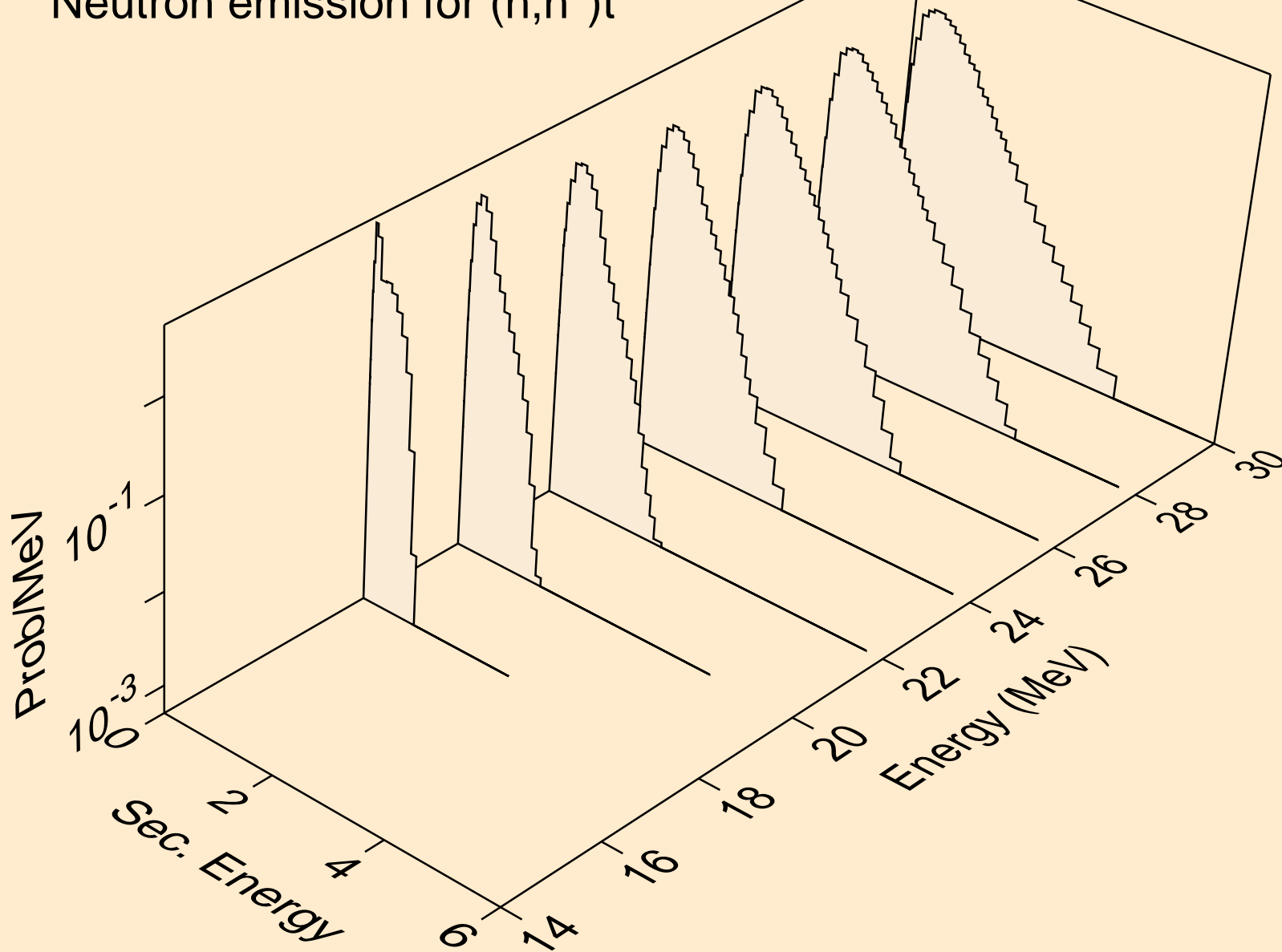




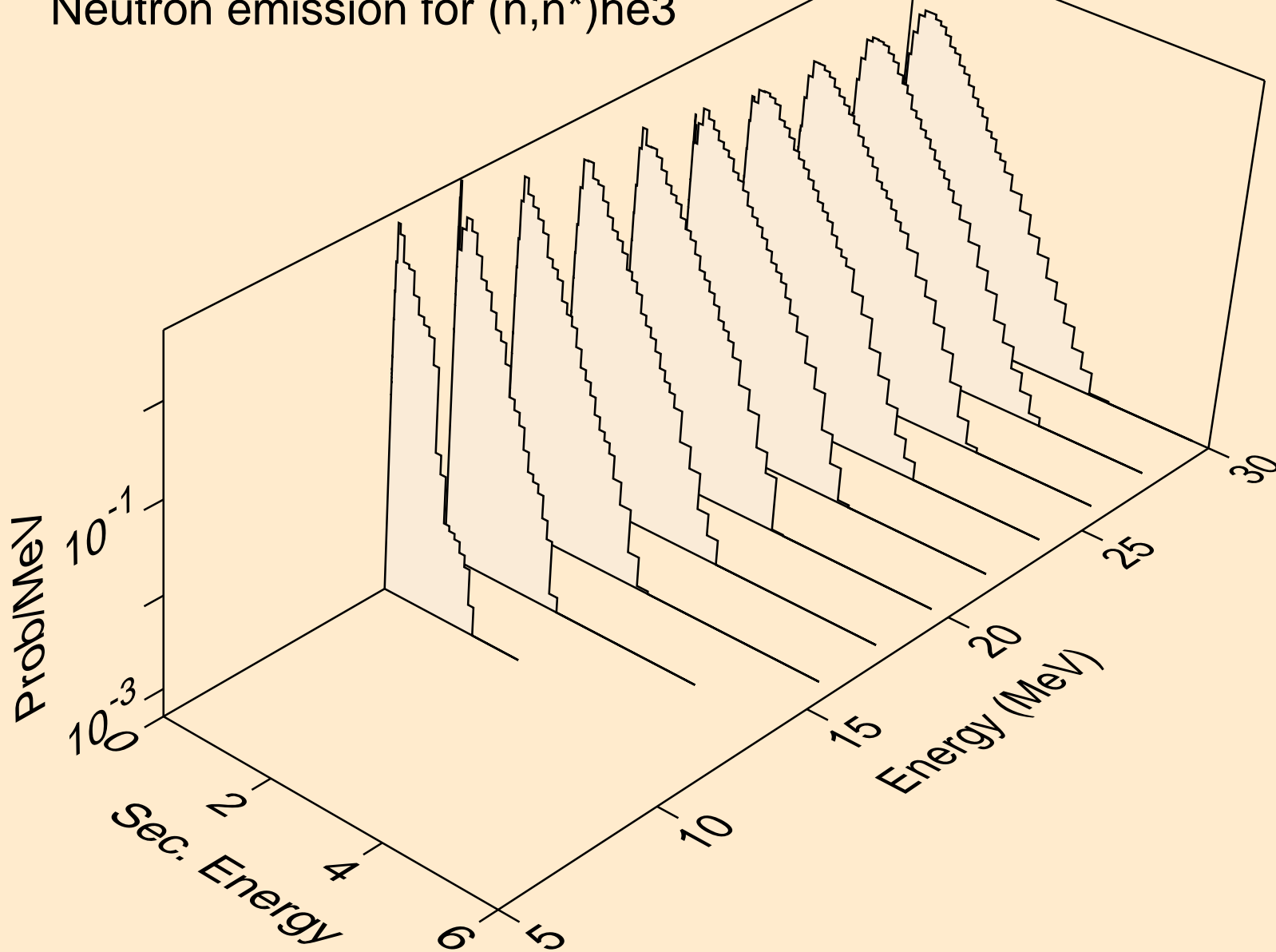
HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)d



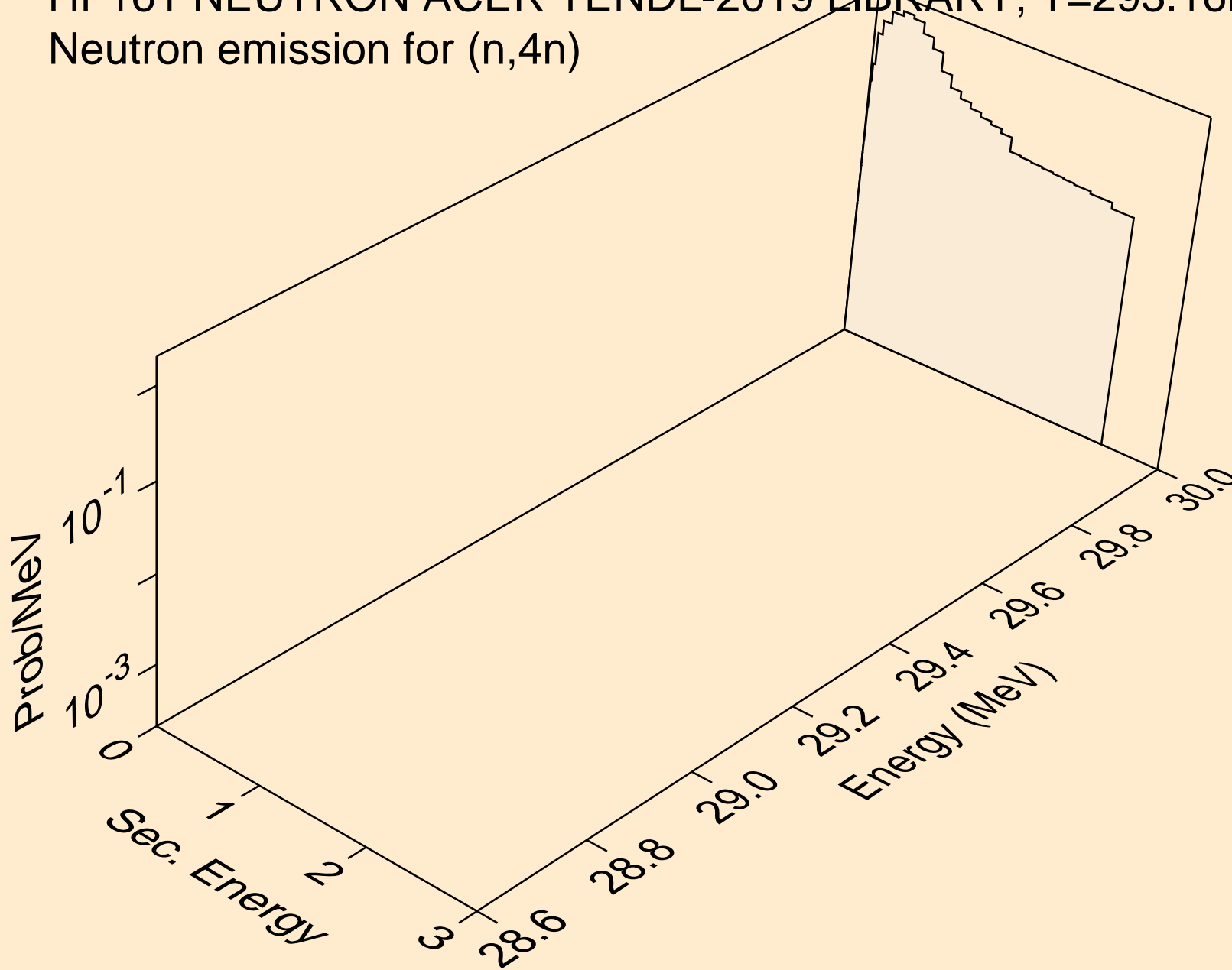
HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)t



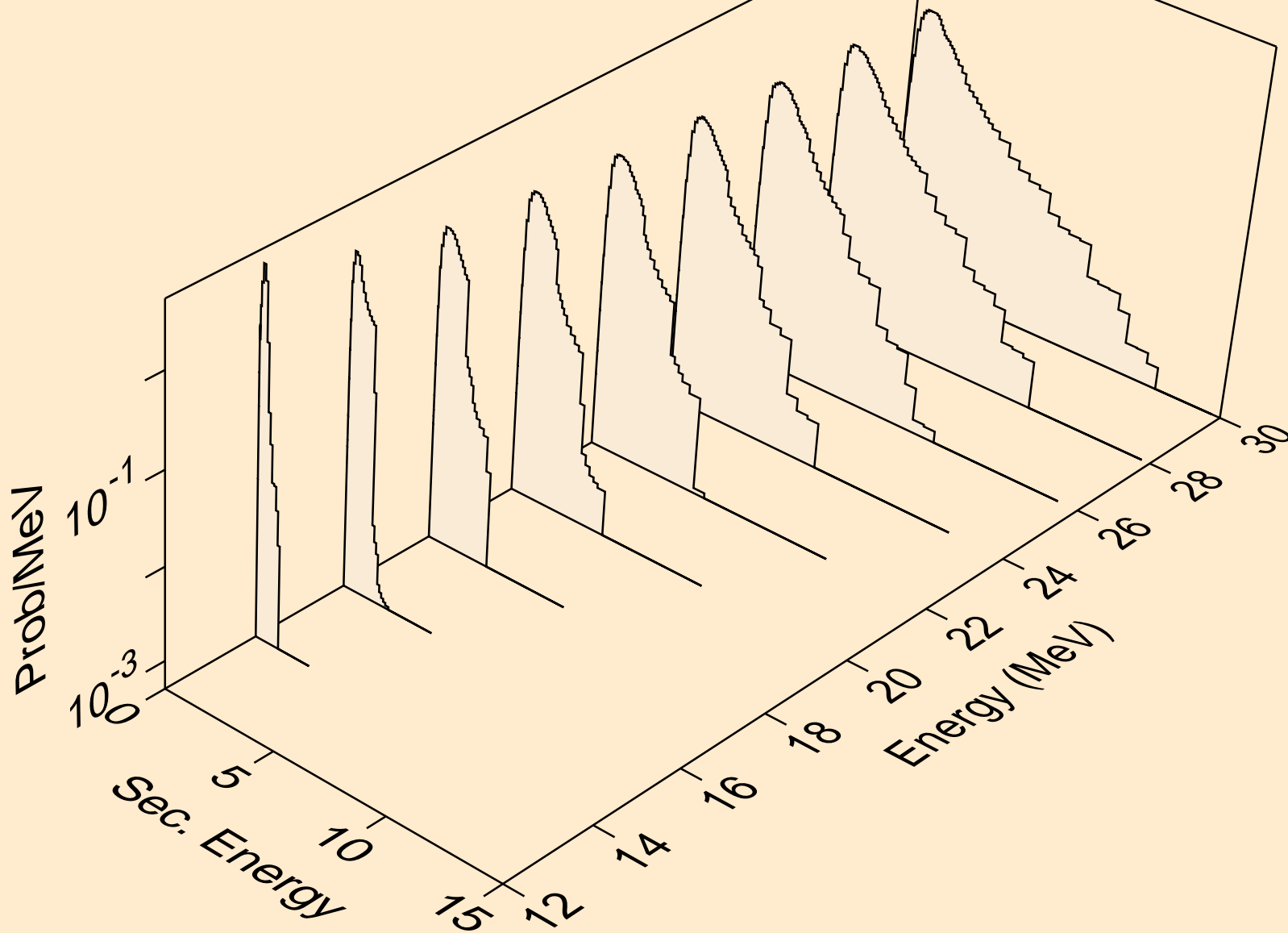
HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)he3



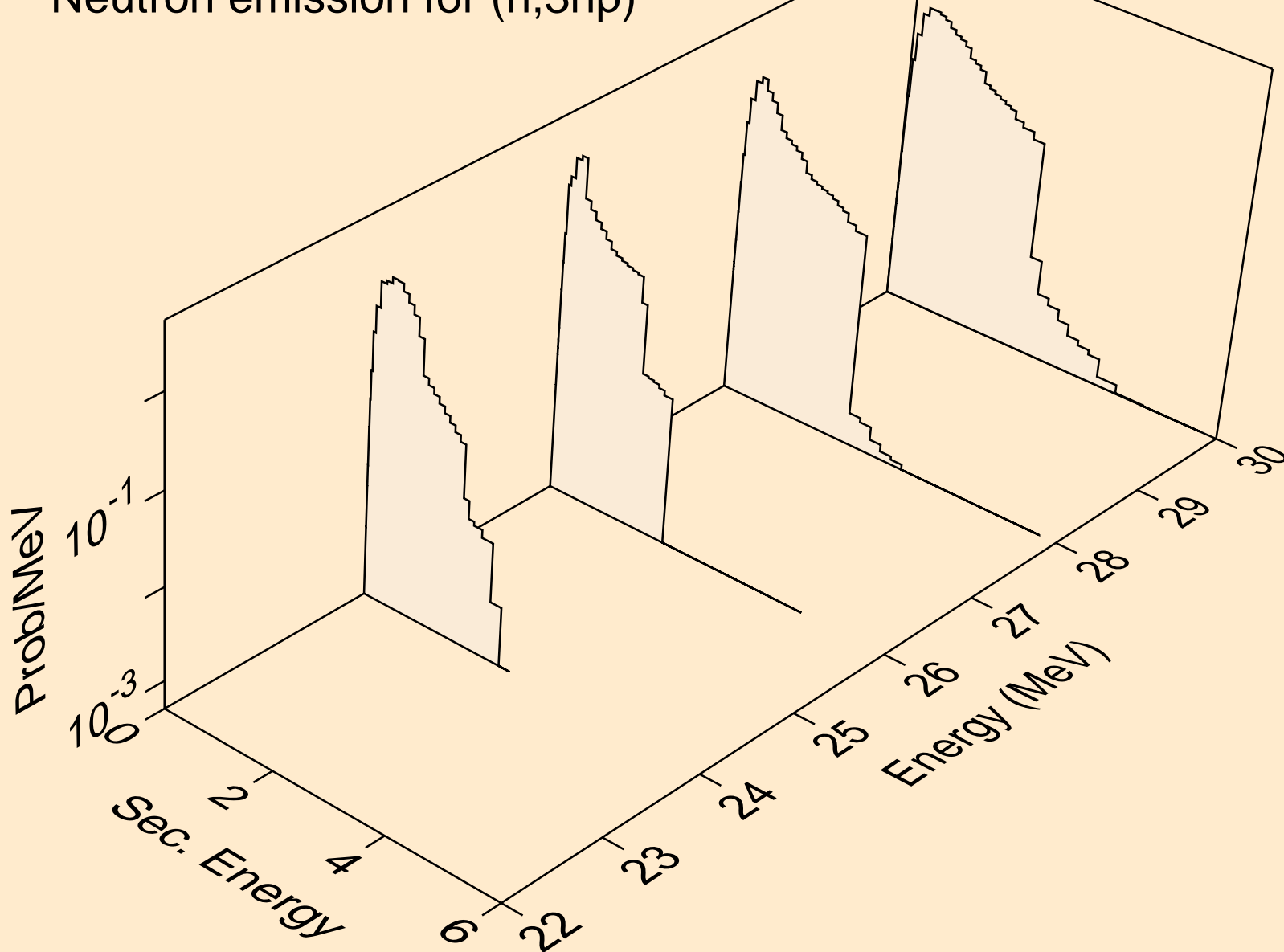
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Neutron emission for (n,4n)



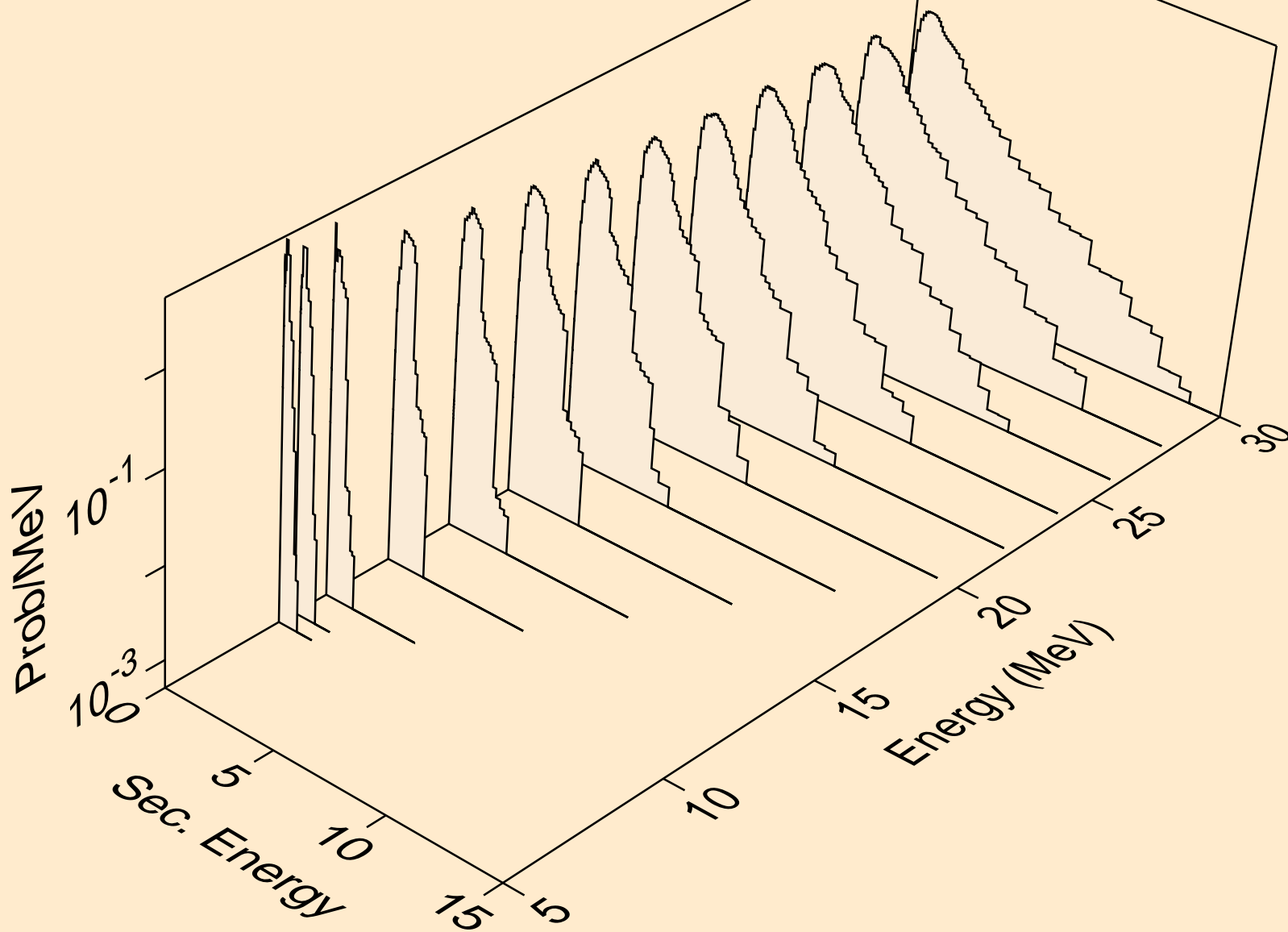
HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2np)



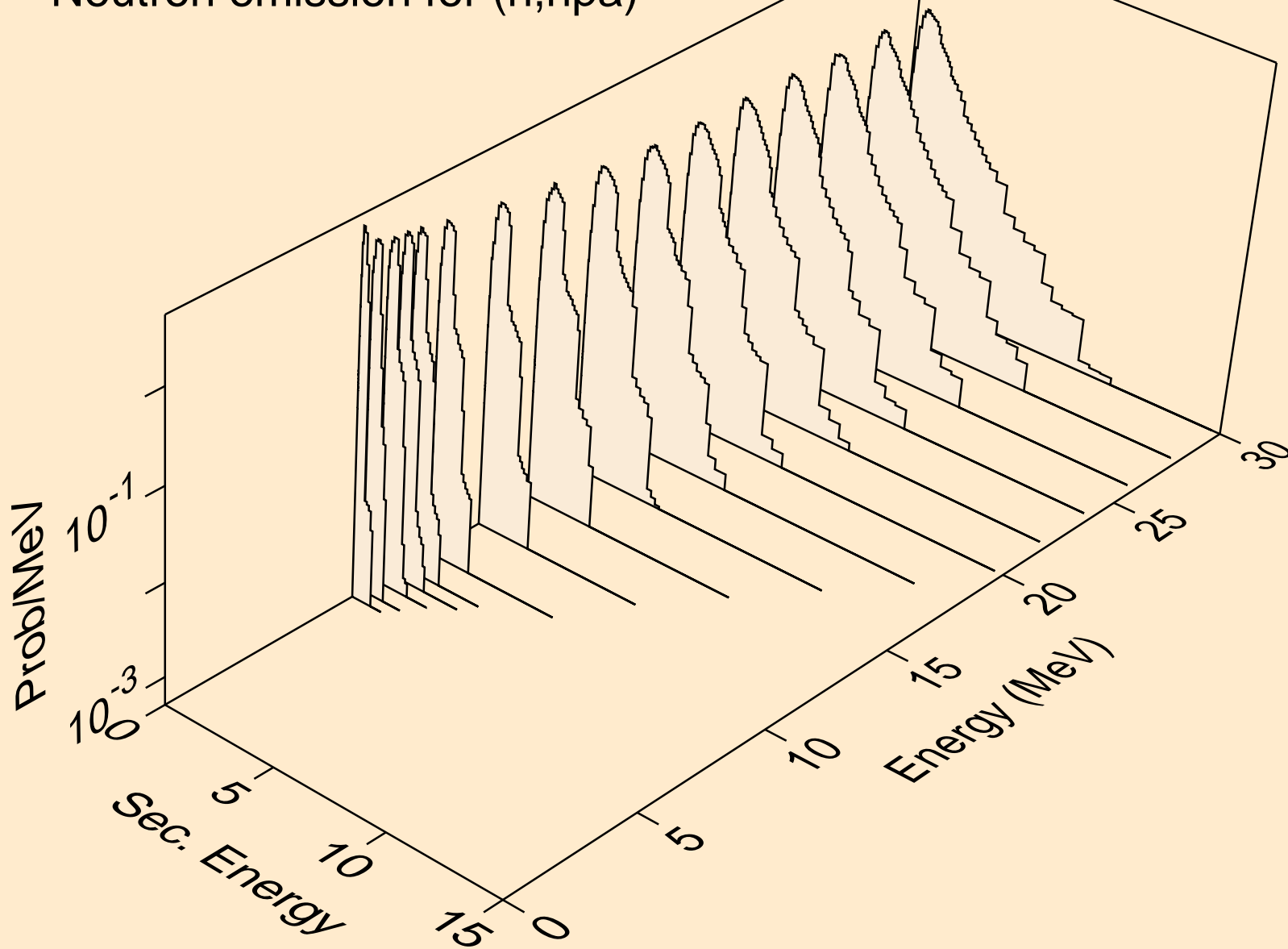
HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3np)



HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2np)

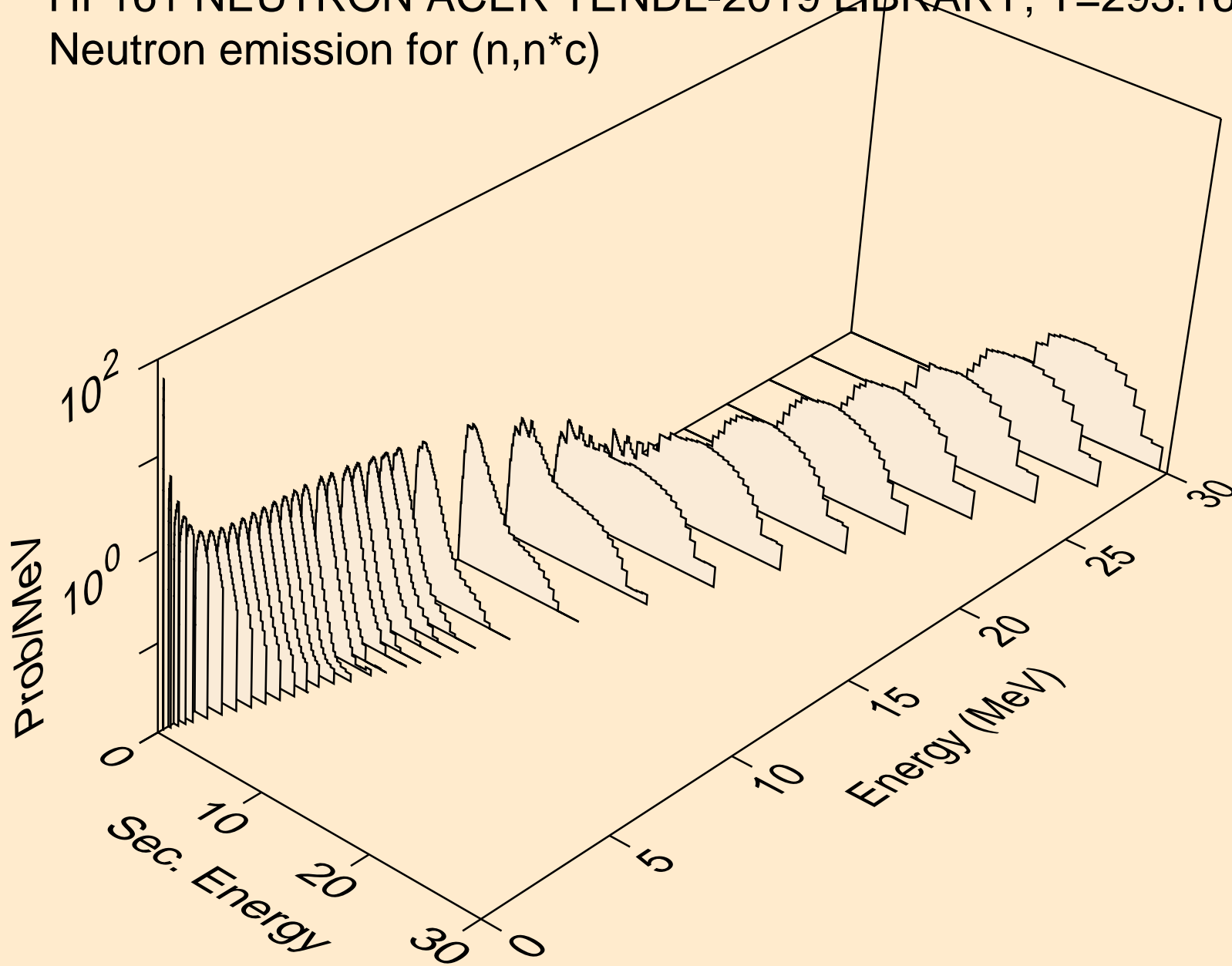


HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,npa)

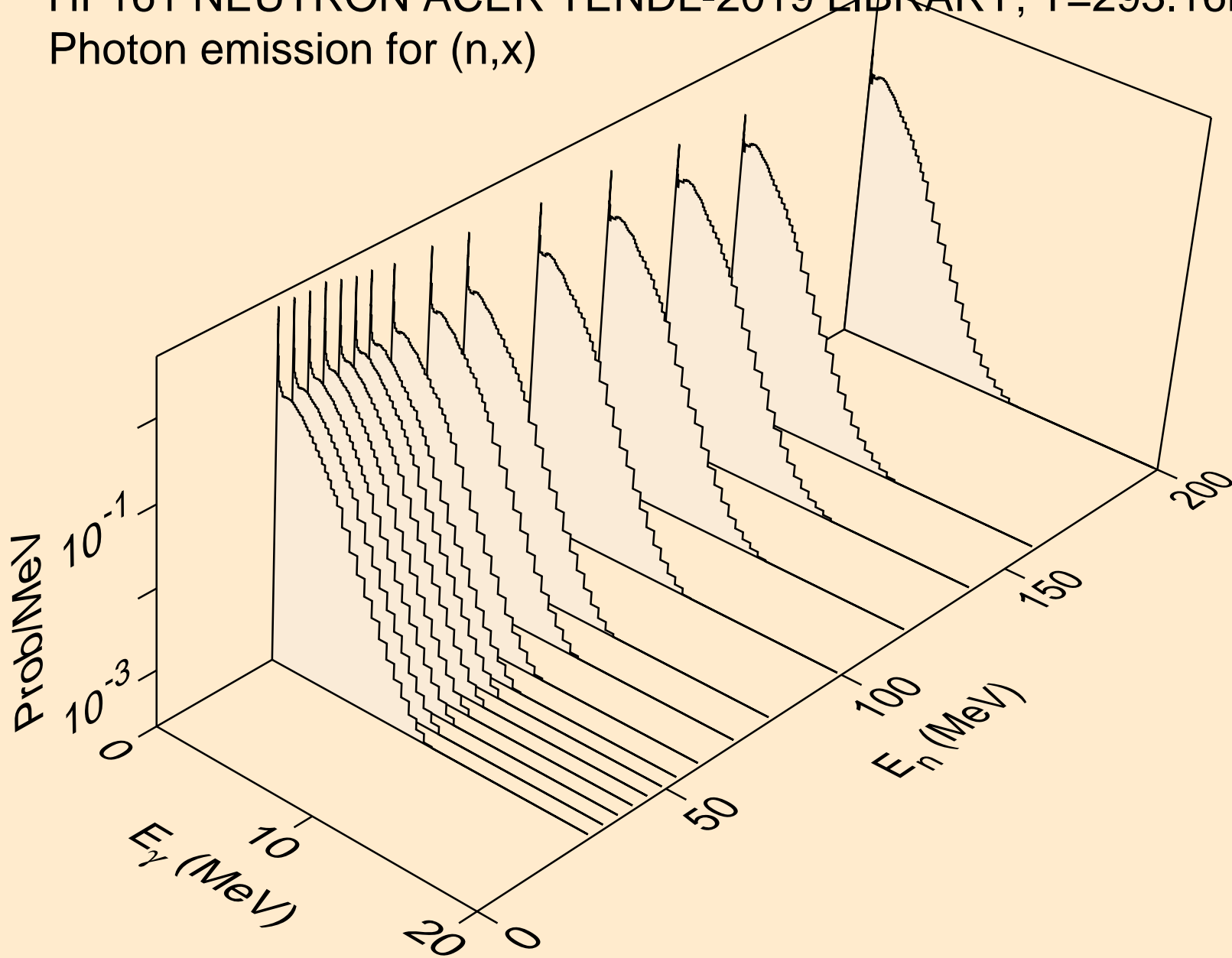




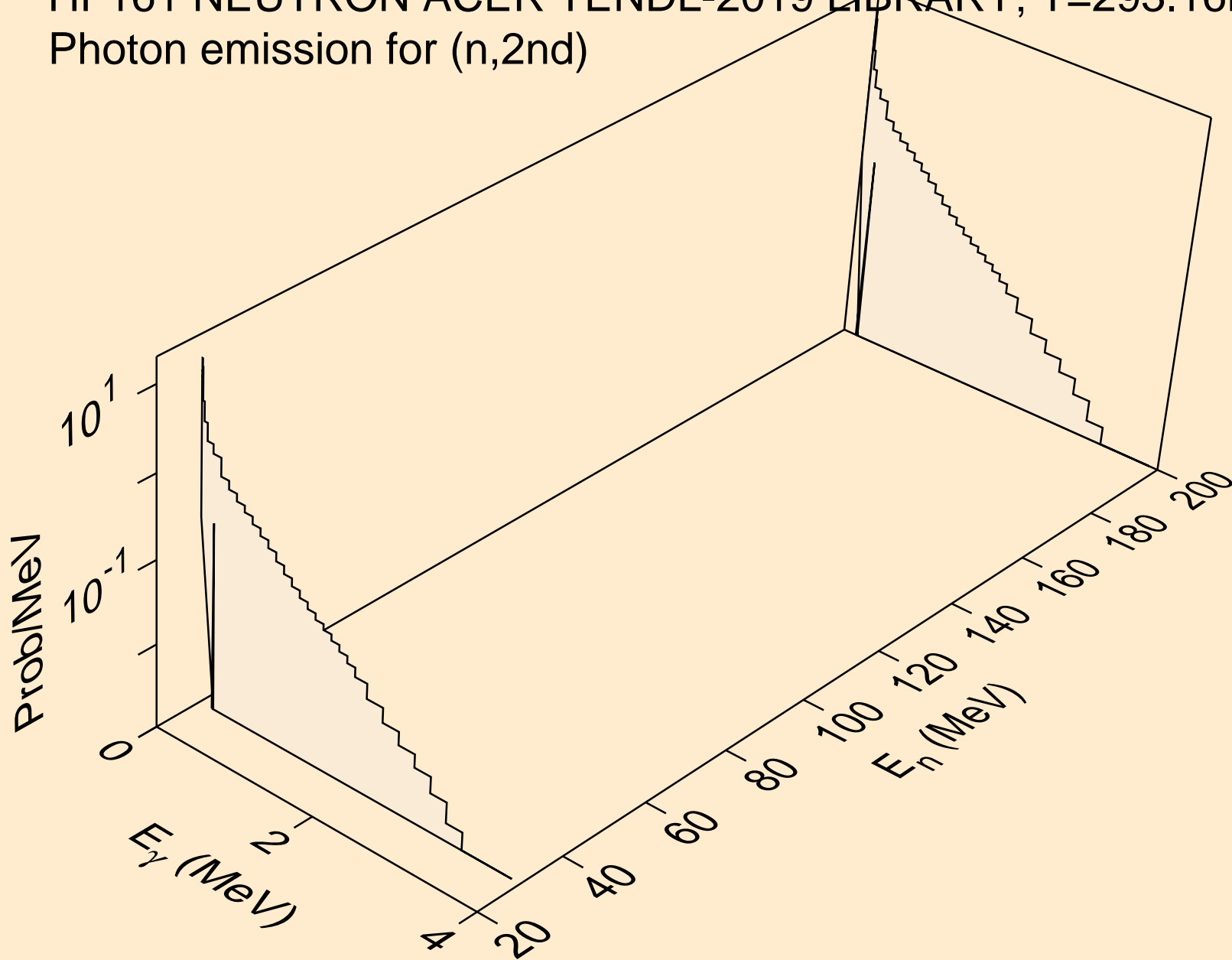
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Neutron emission for (n,n\*c)



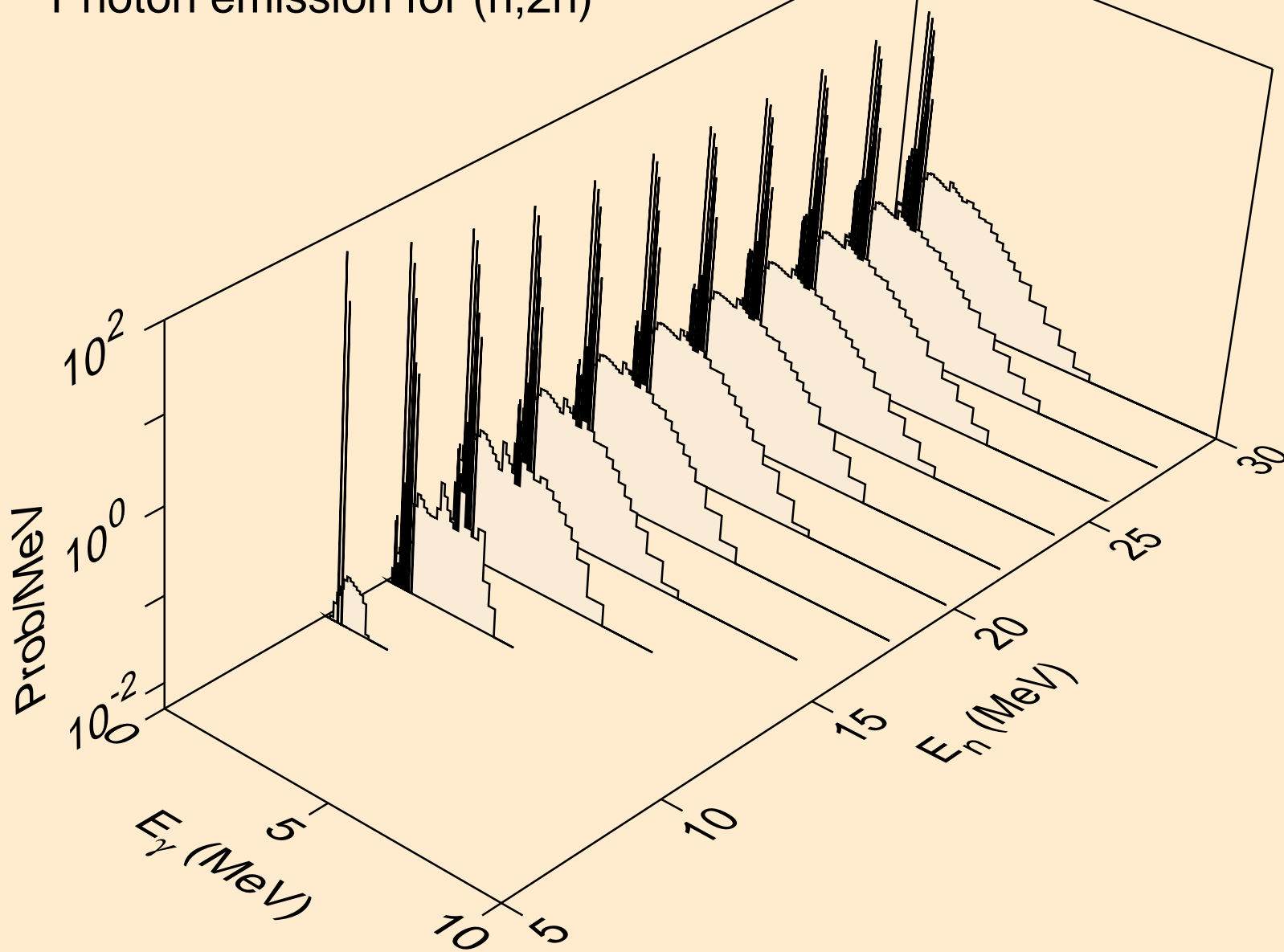
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Photon emission for (n,x)



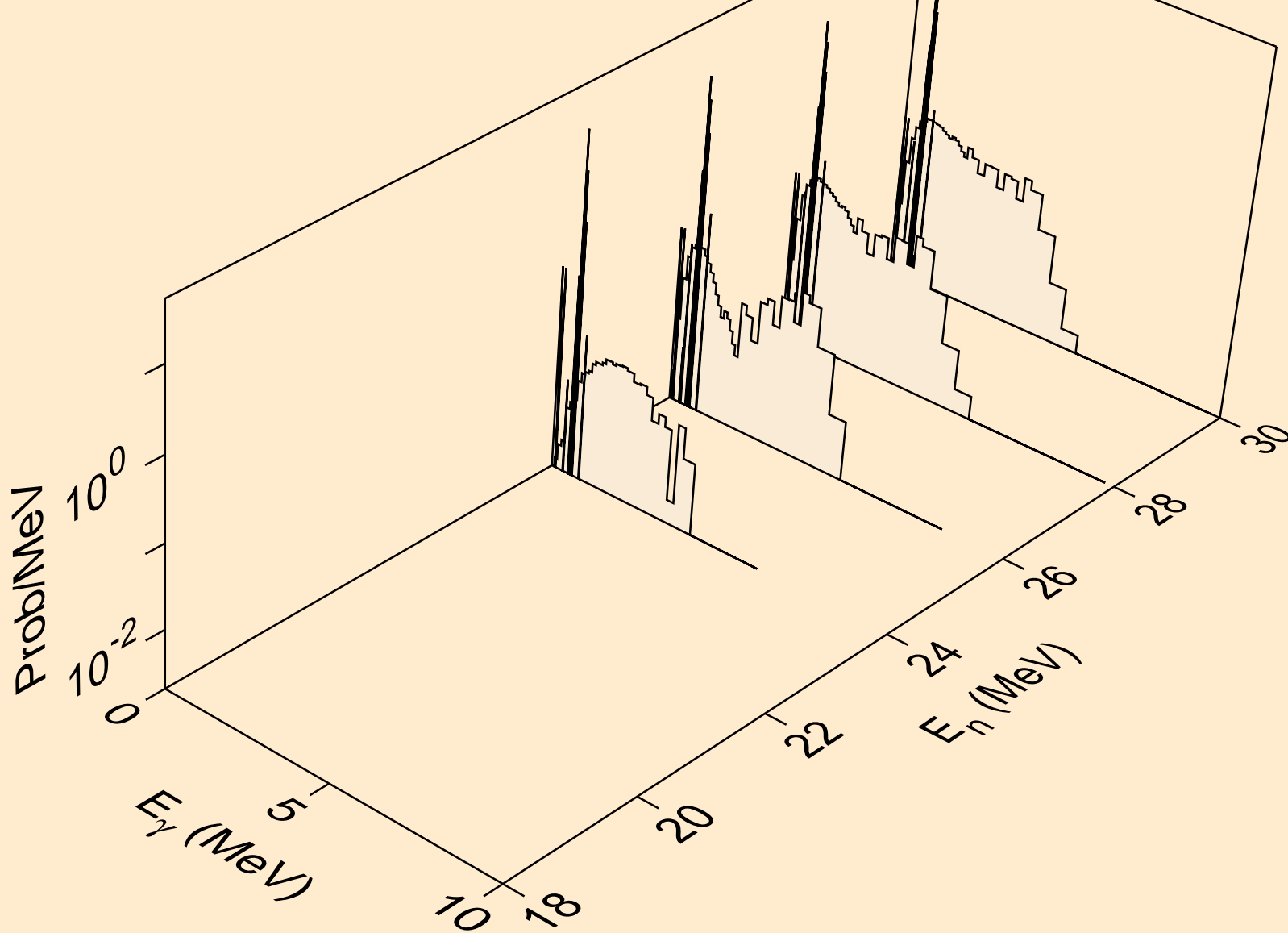
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Photon emission for (n,2nd)



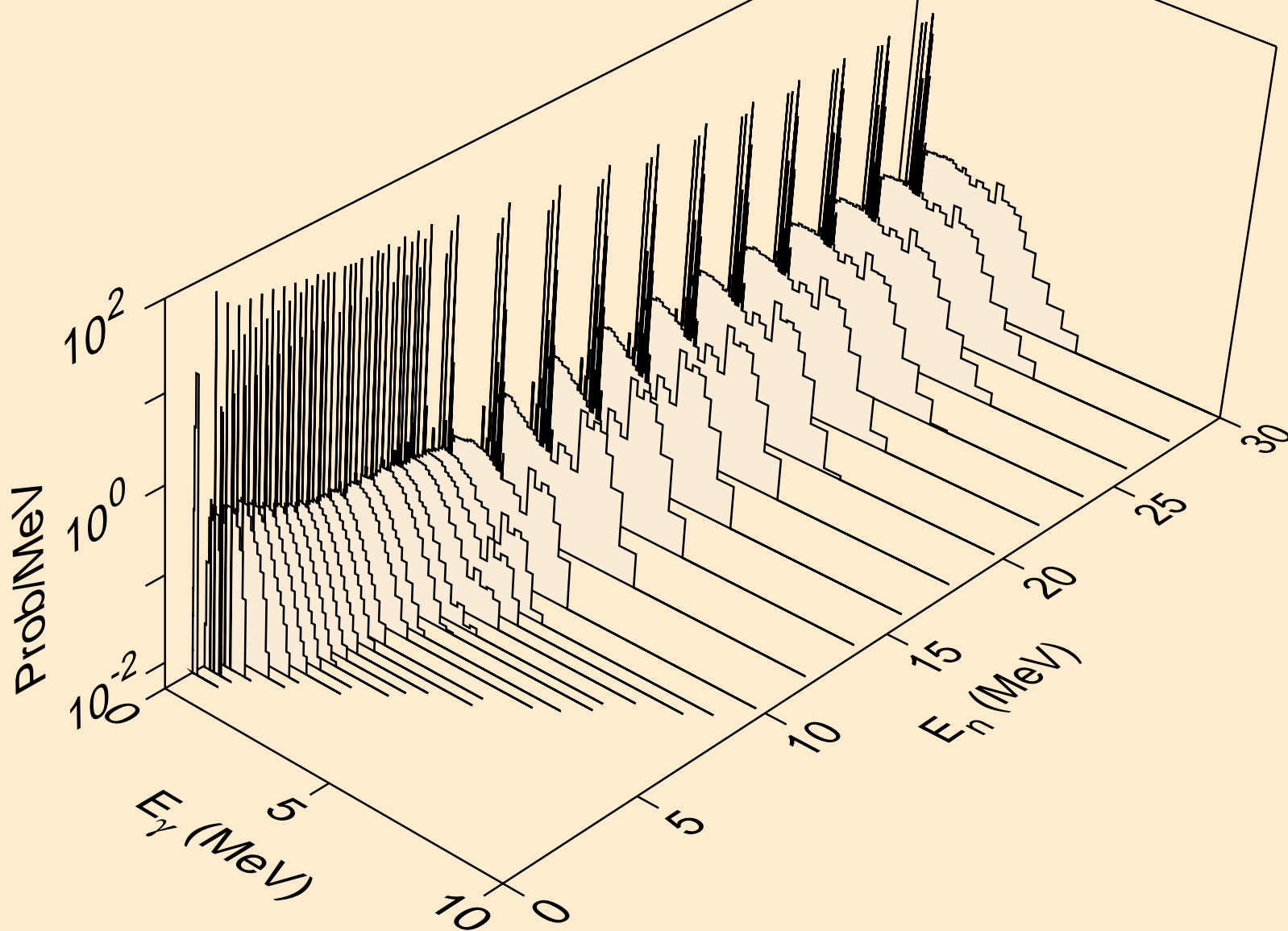
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Photon emission for (n,2n)



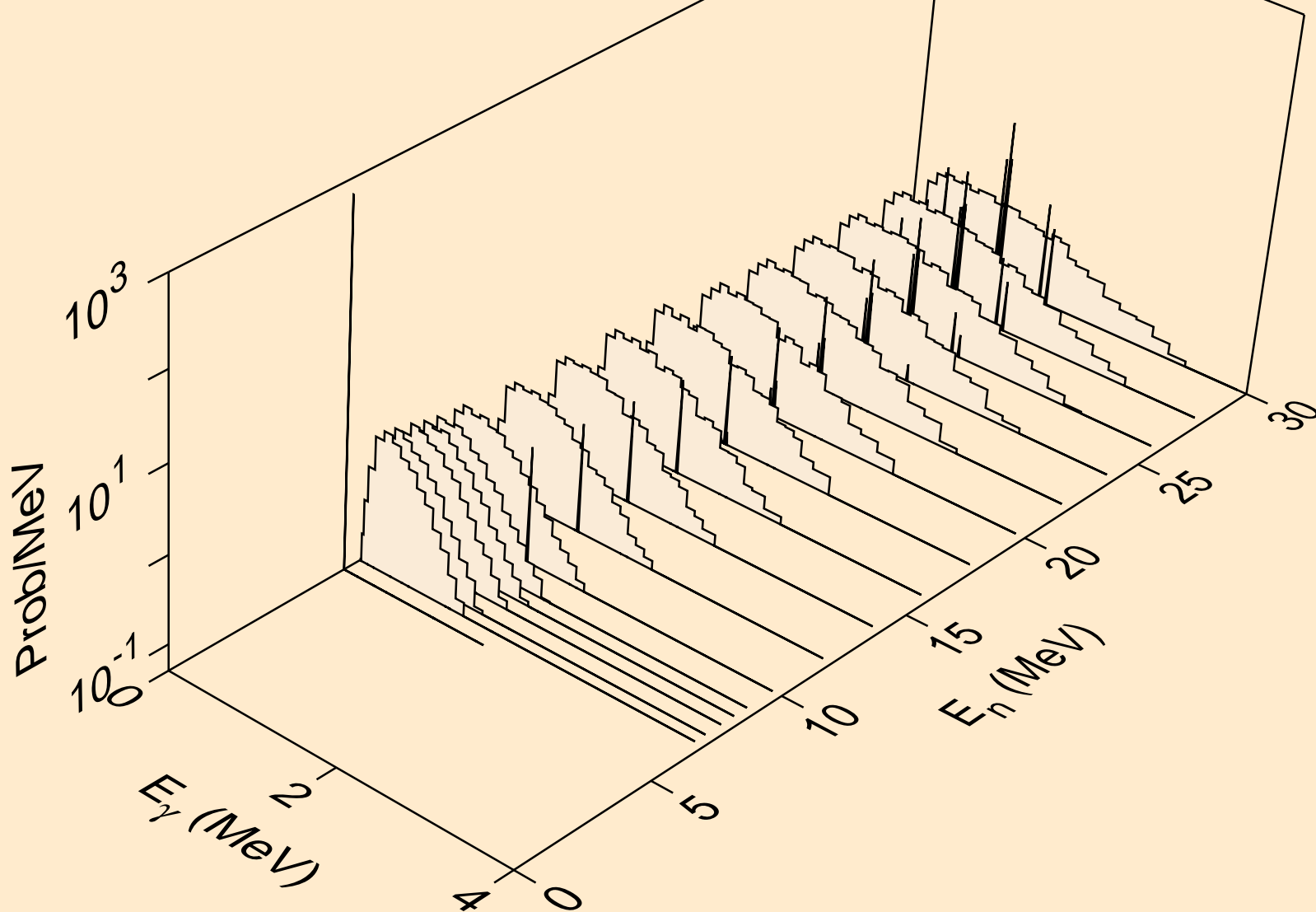
HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3n)



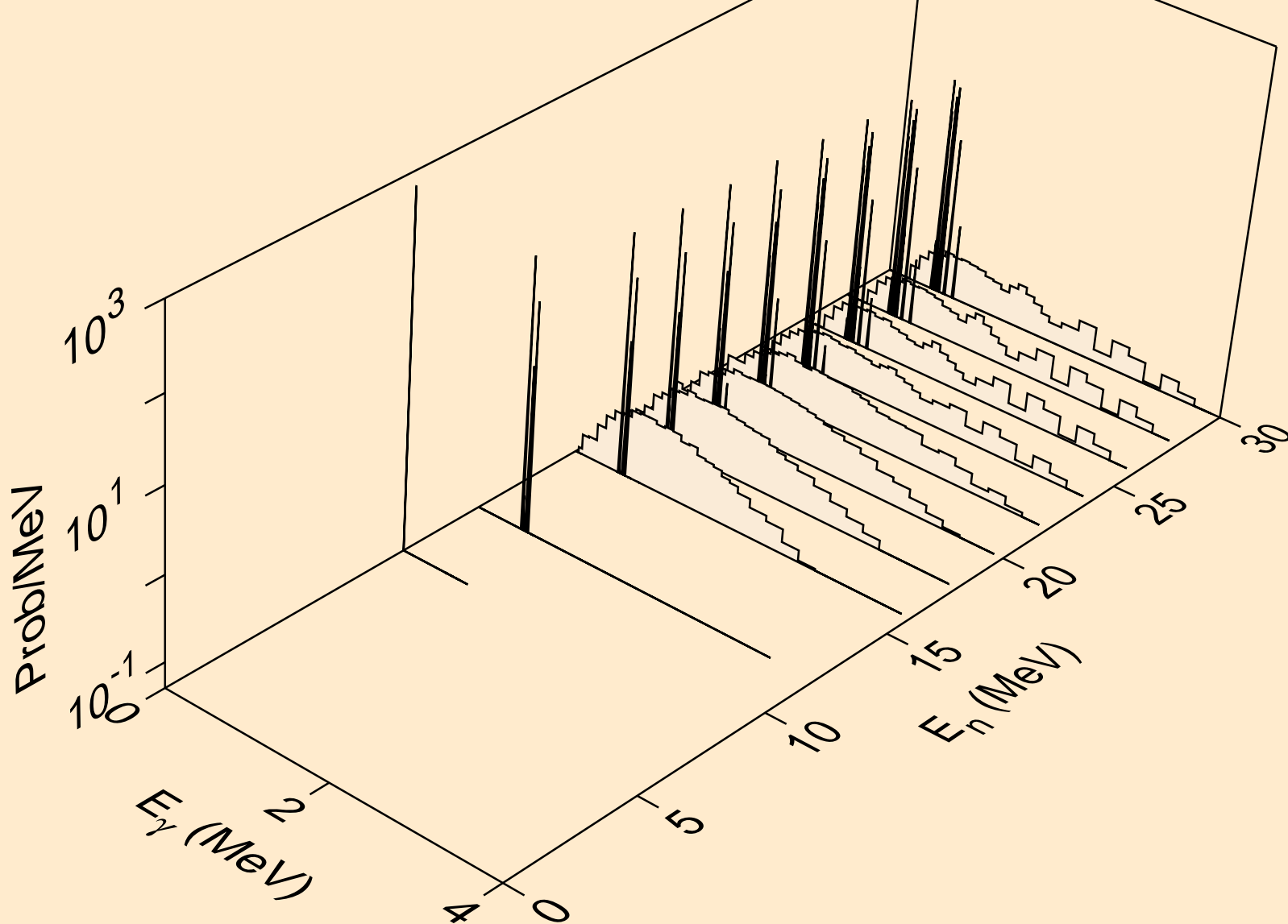
HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)a



HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)3a

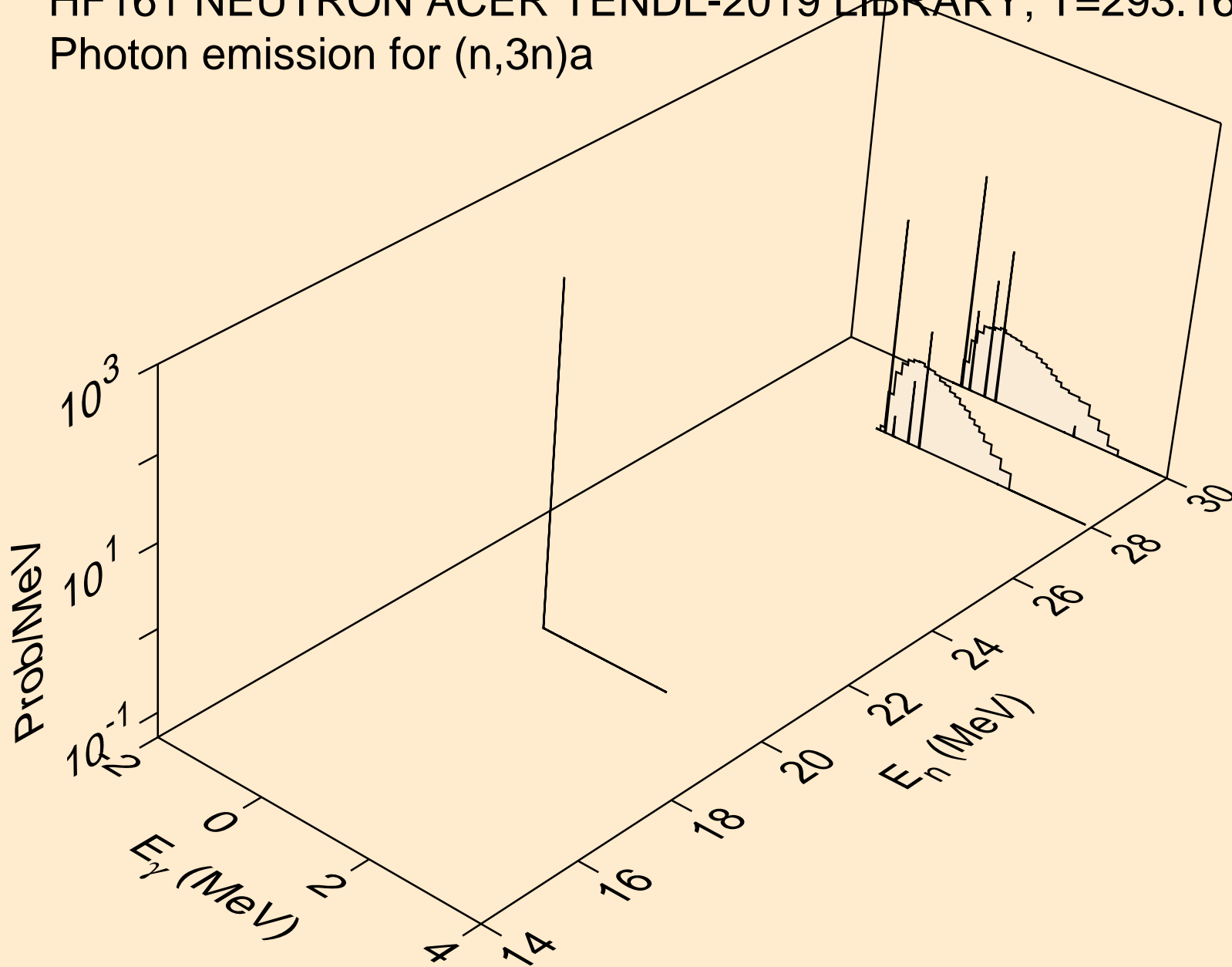


HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2n)a

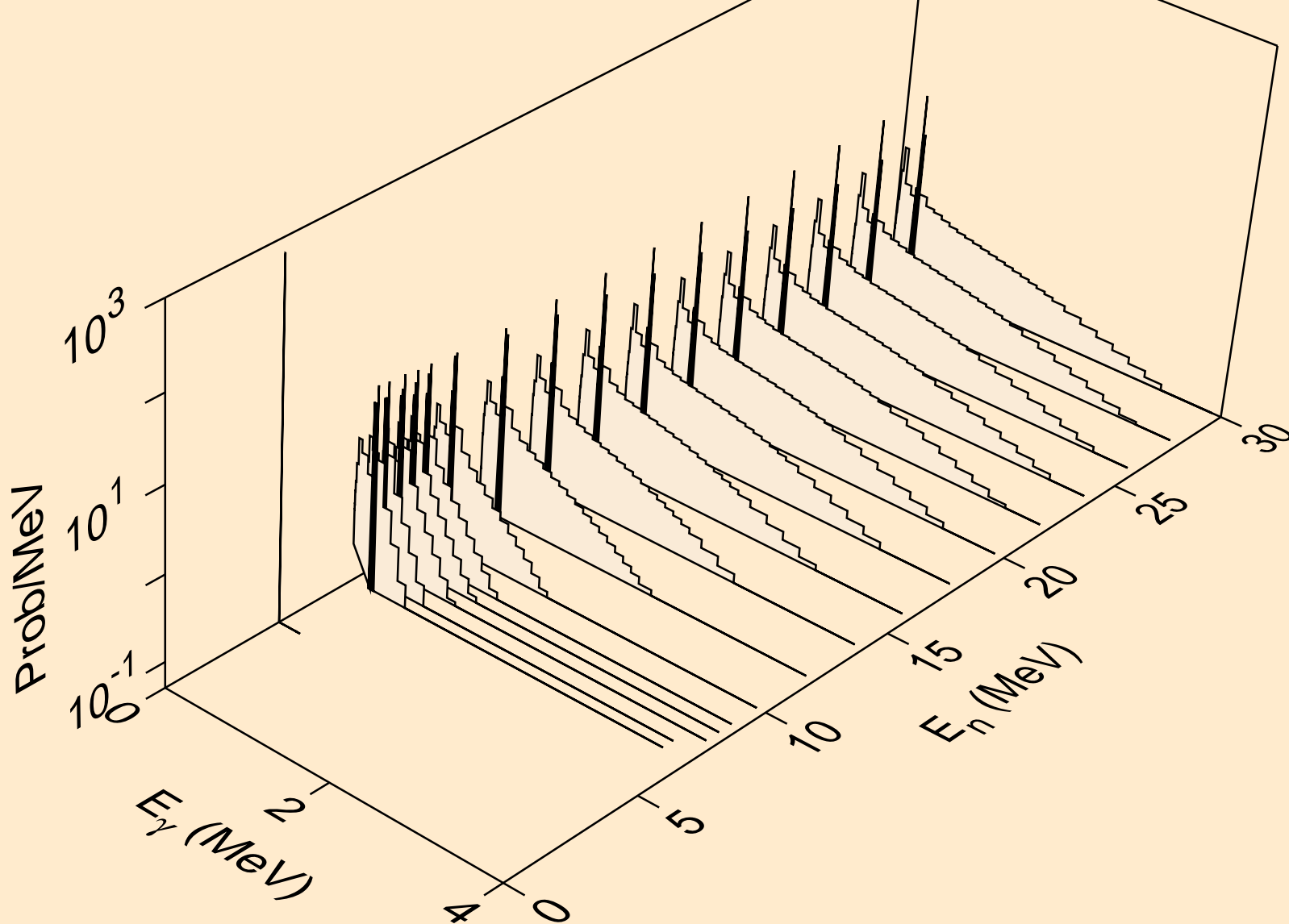




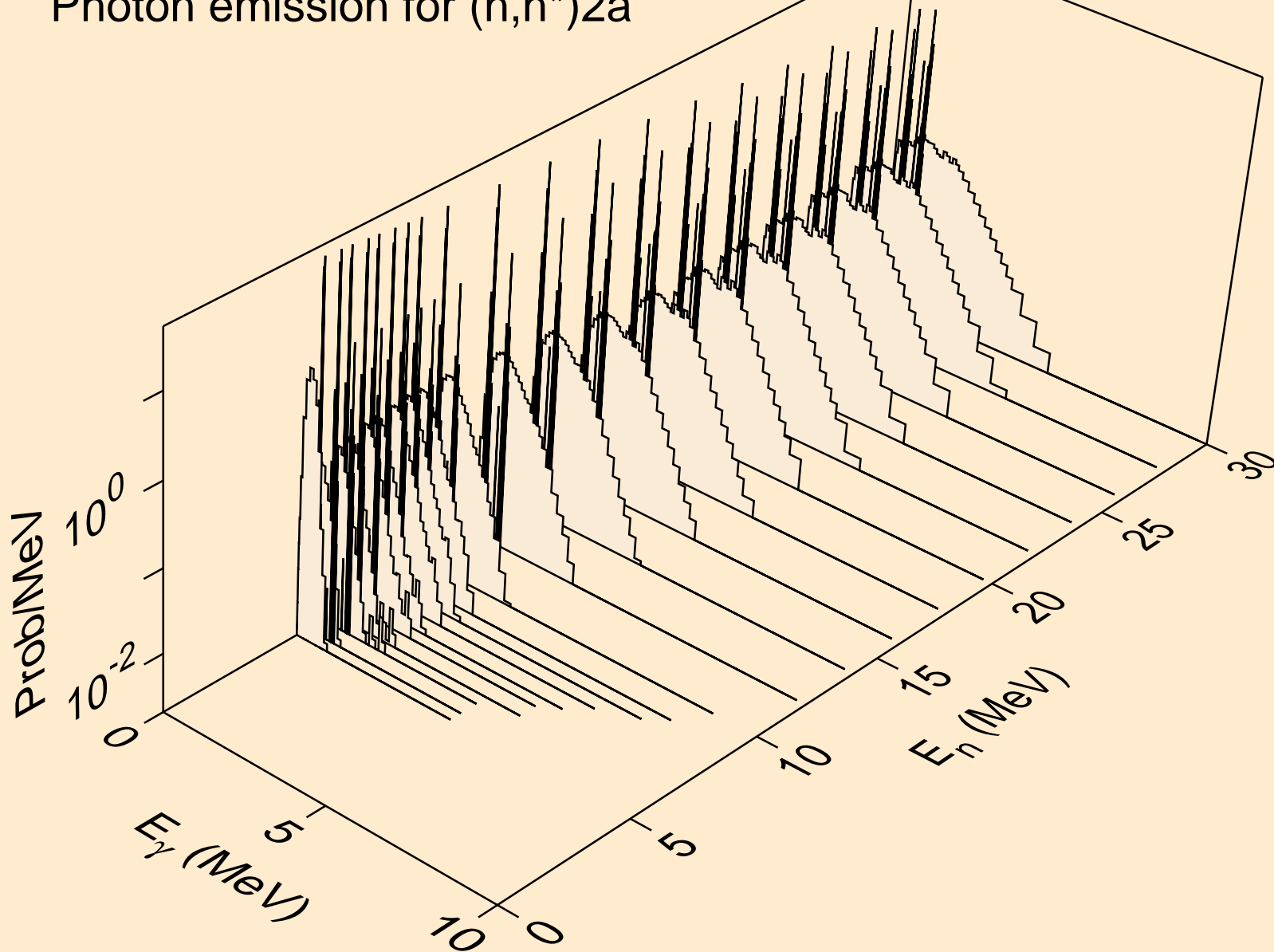
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Photon emission for (n,3n)a



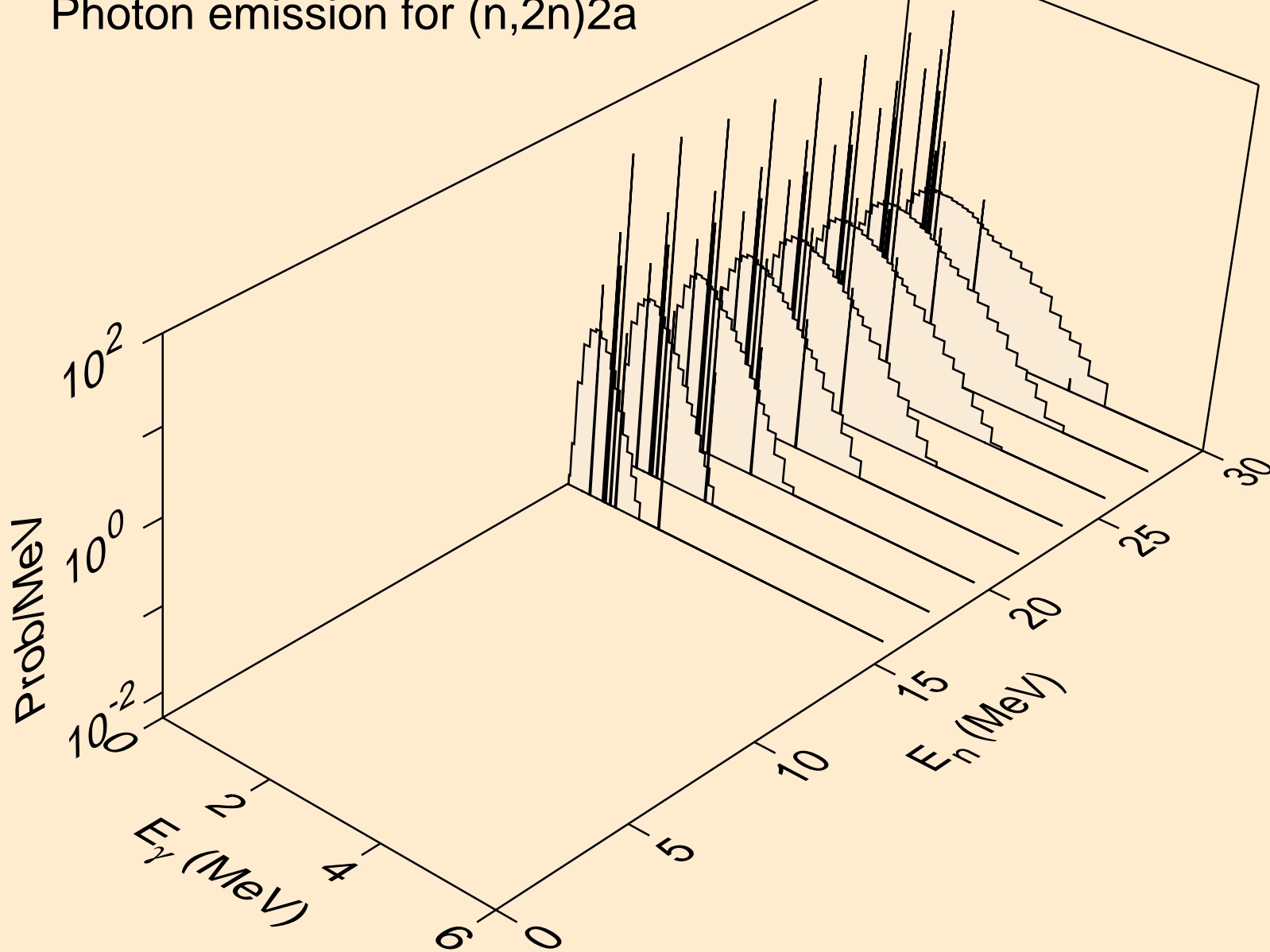
HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)p



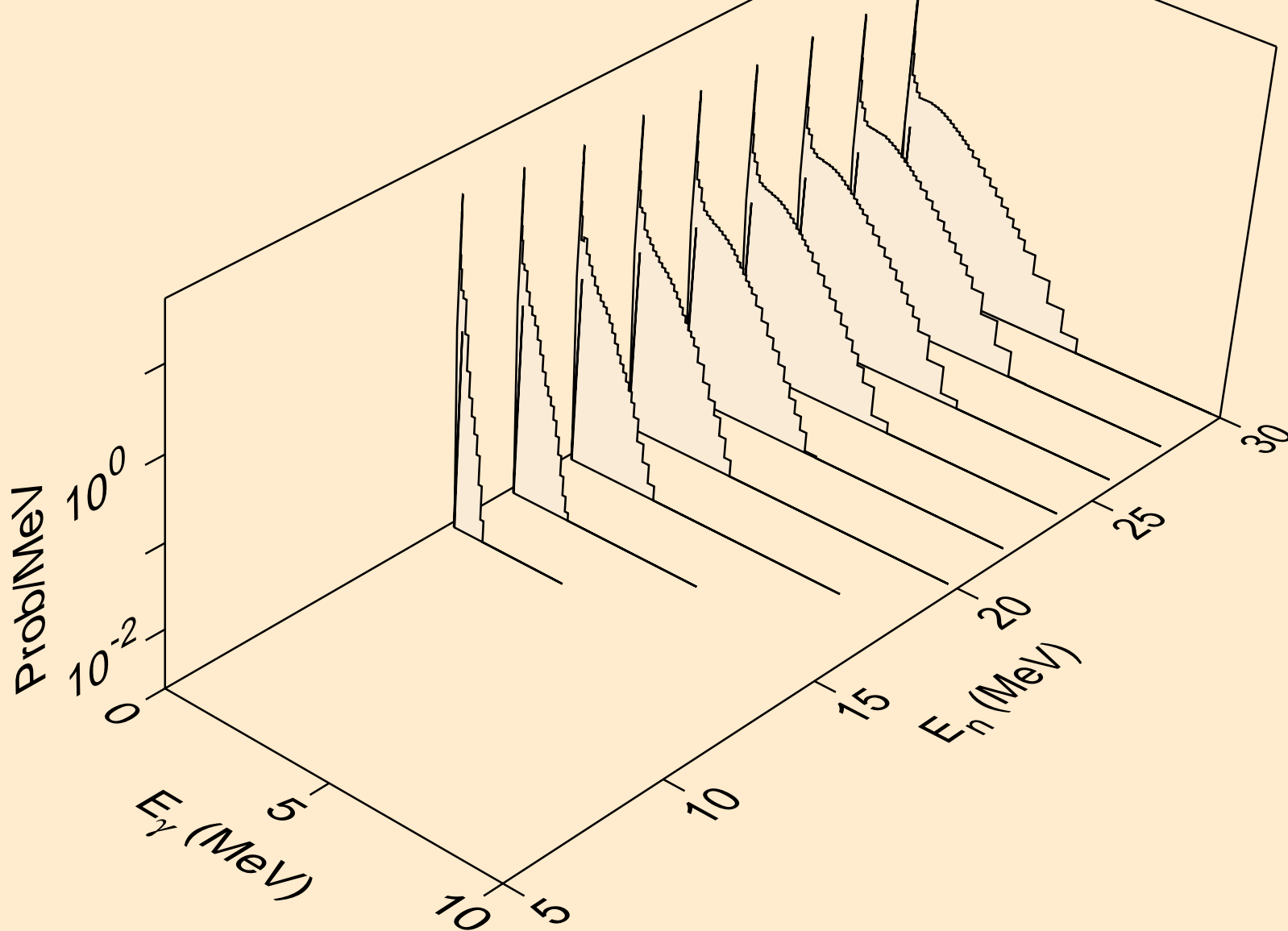
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Photon emission for (n,n\*)2a



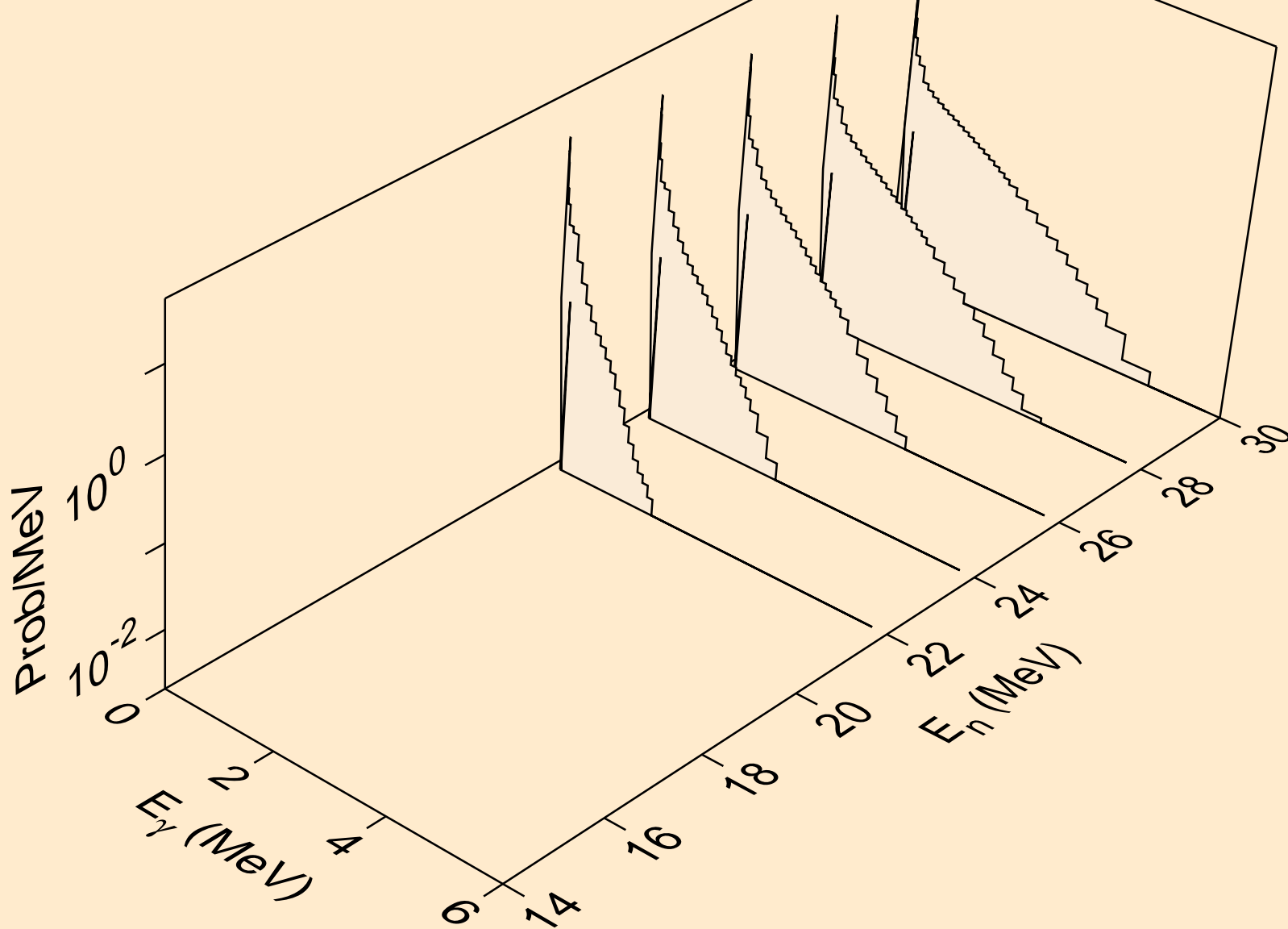
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Photon emission for (n,2n)2a



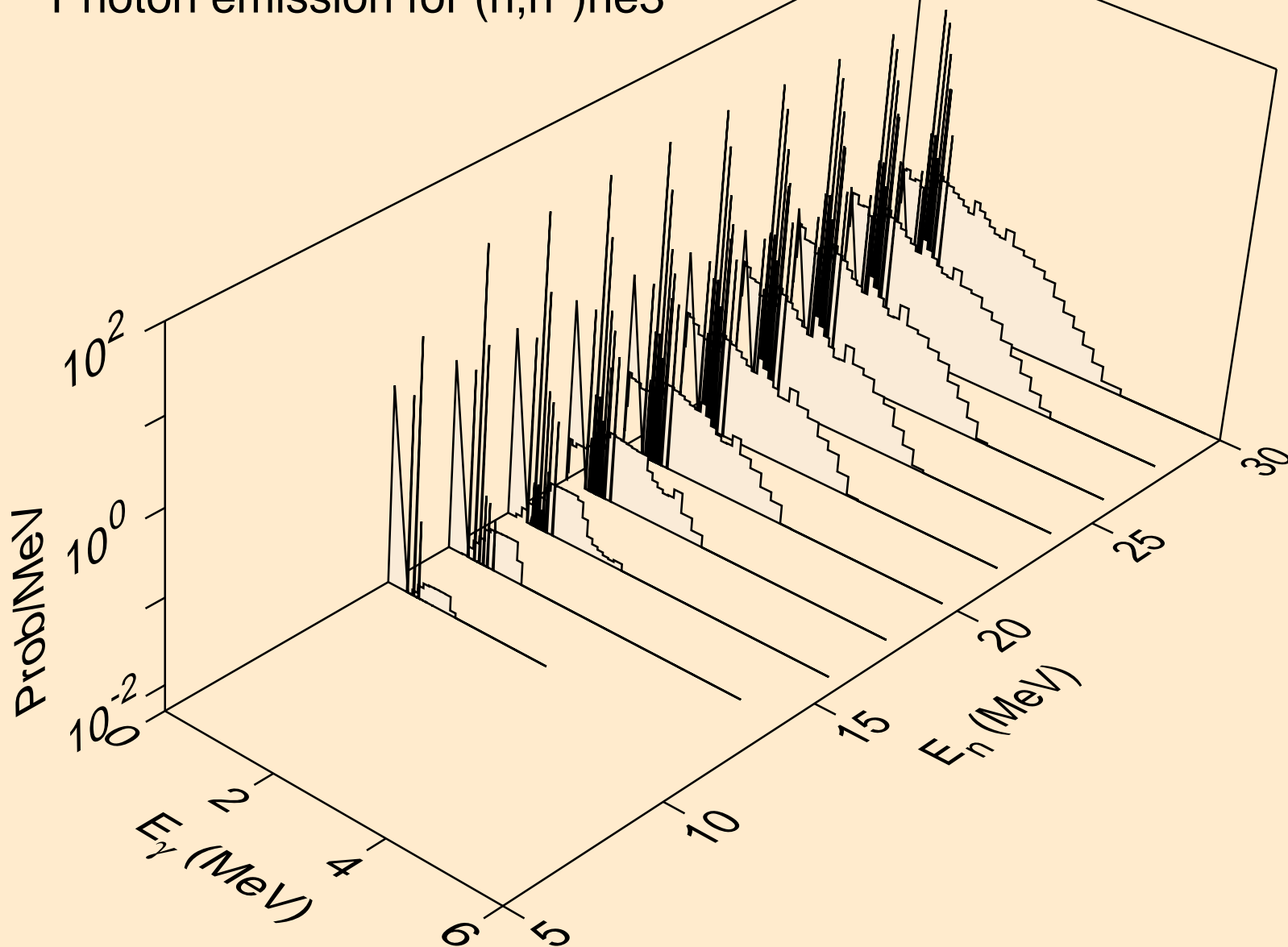
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Photon emission for (n,n\*)d



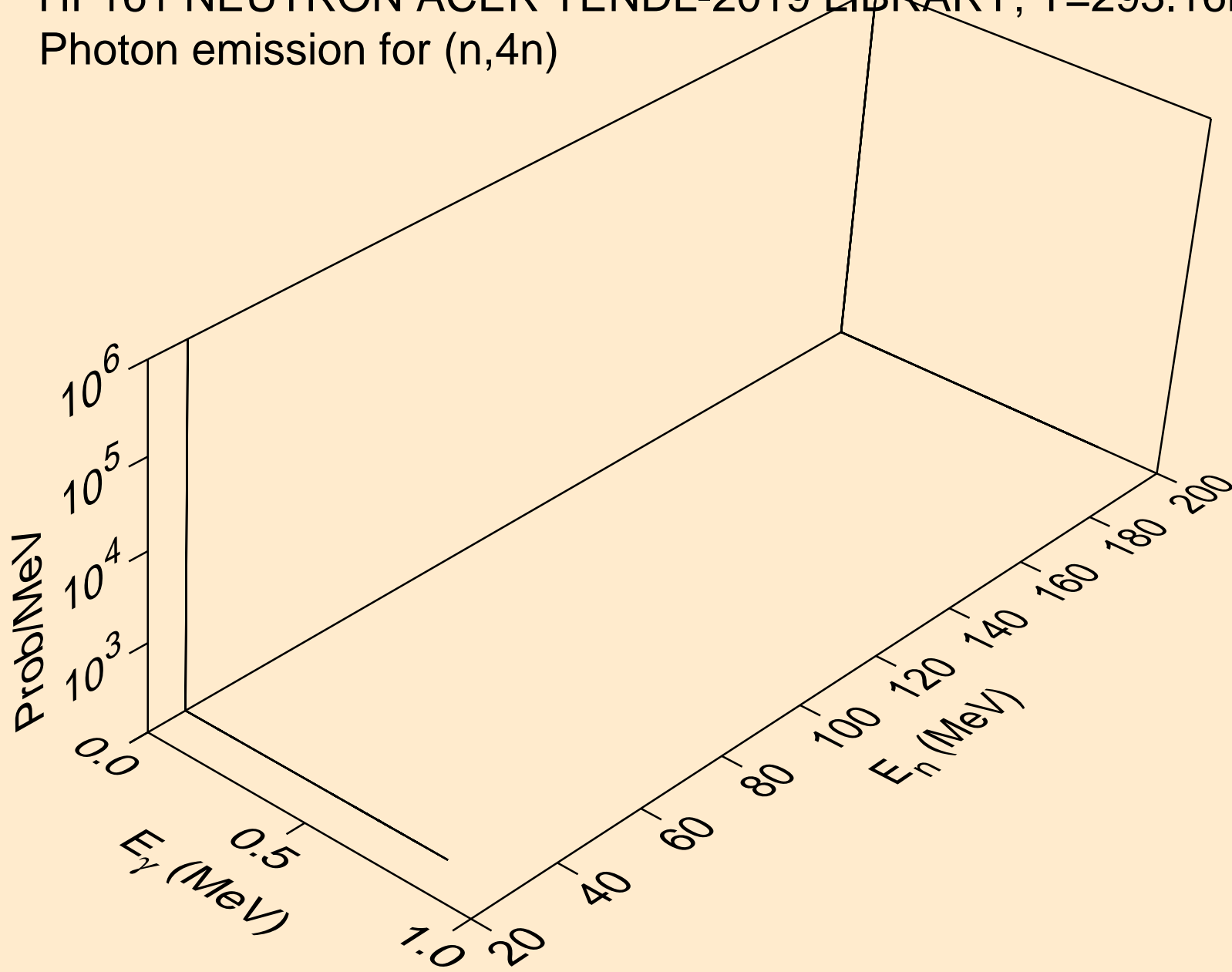
HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)t



HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)he3

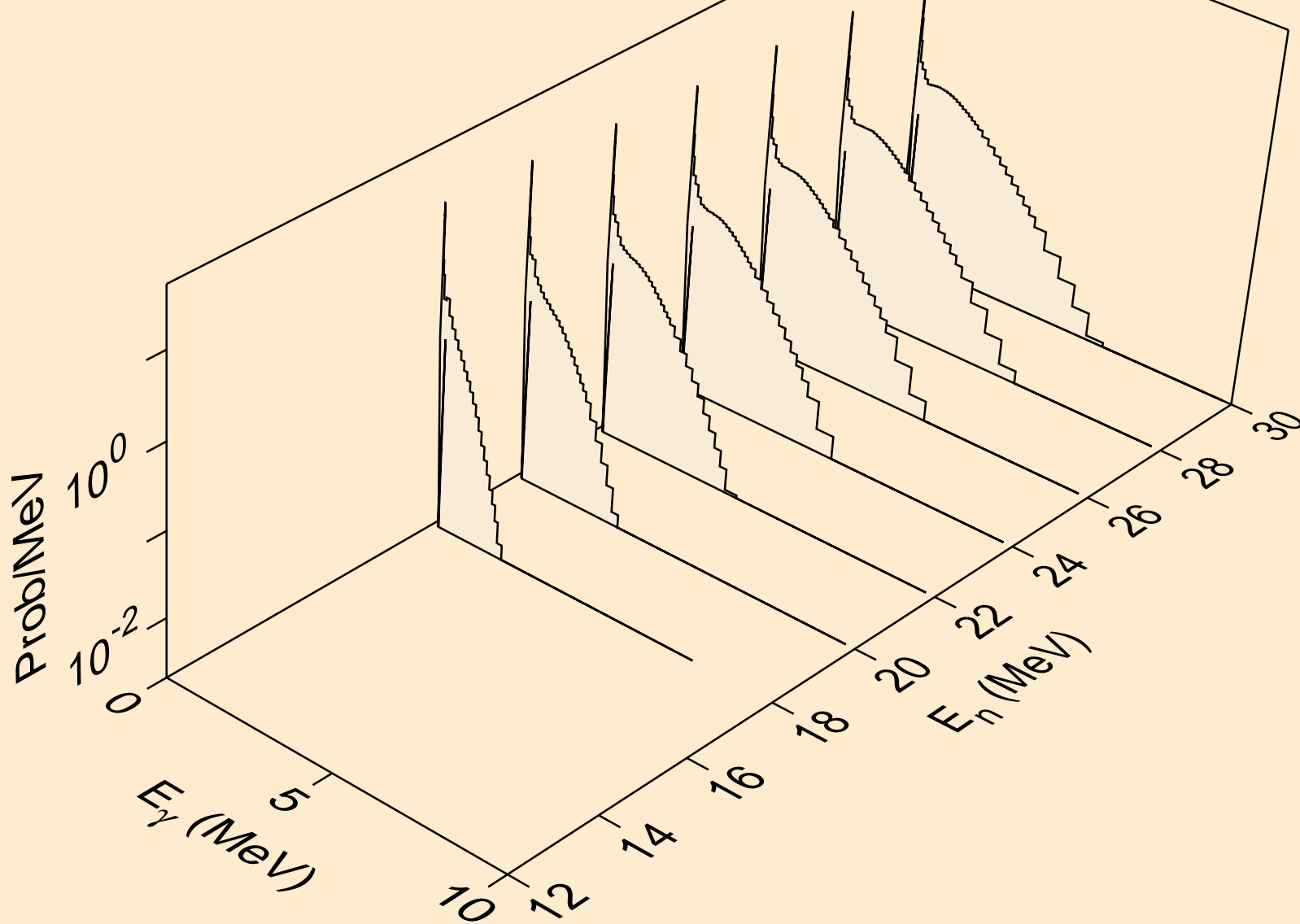


HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,4n)

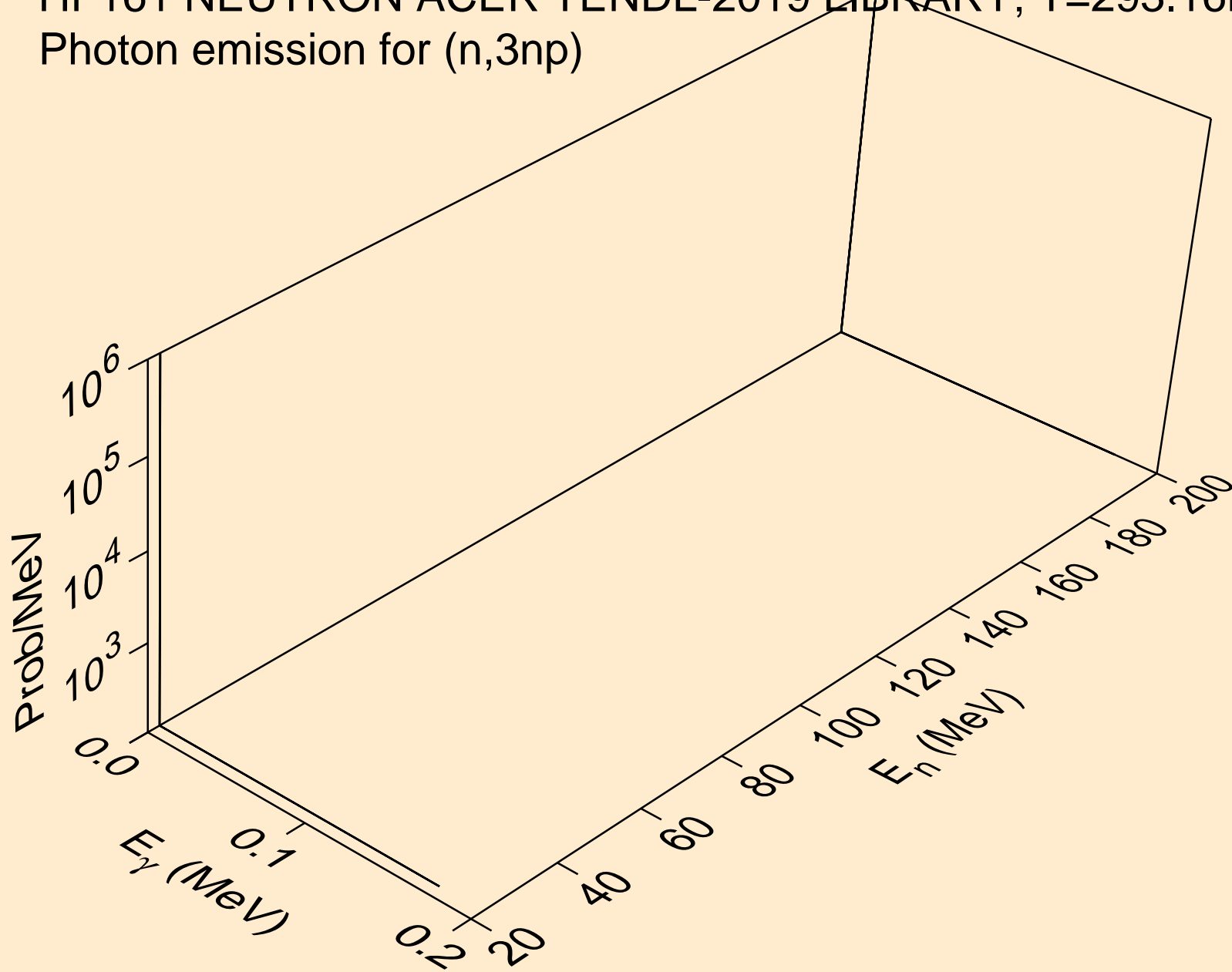




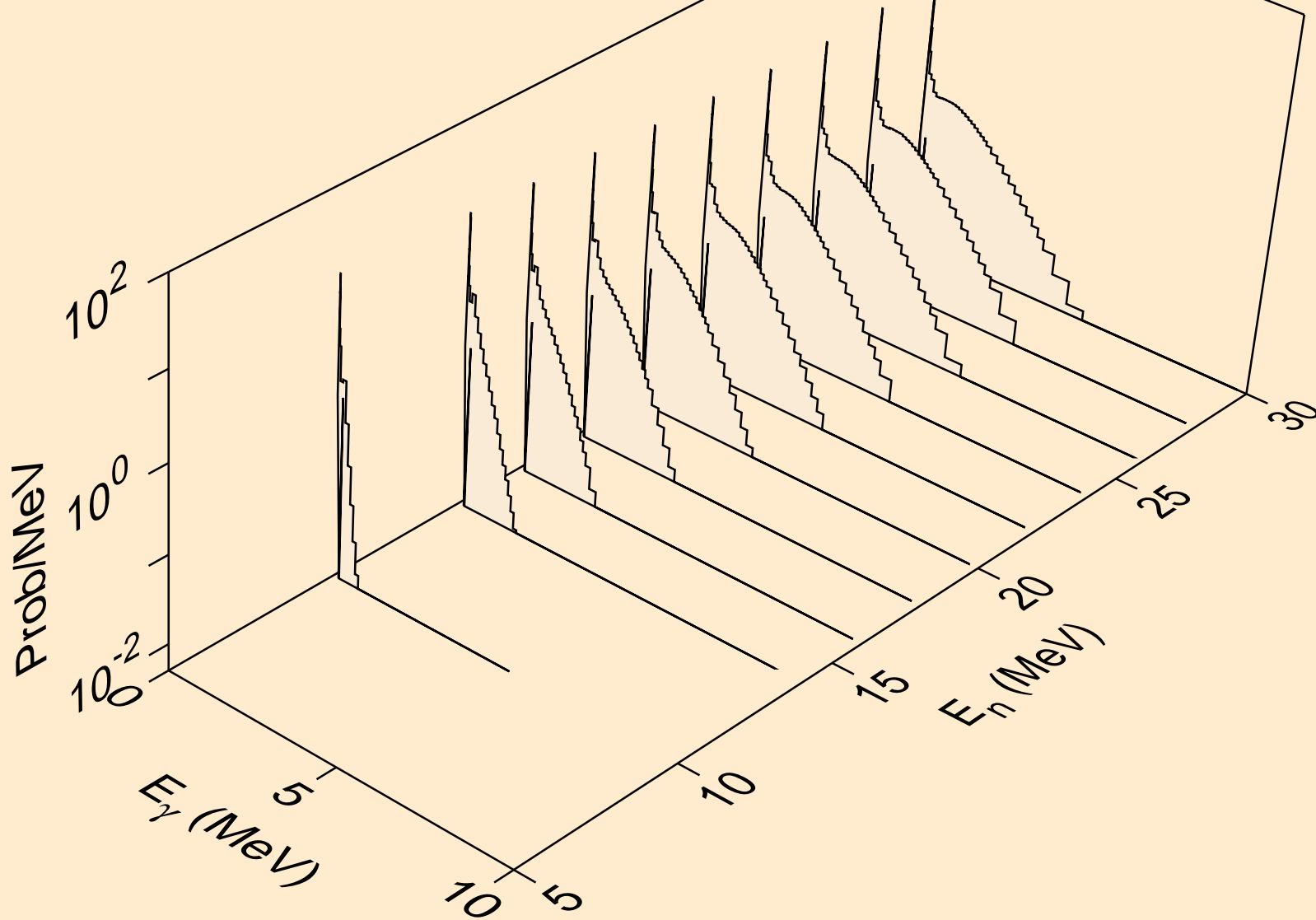
HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2np)



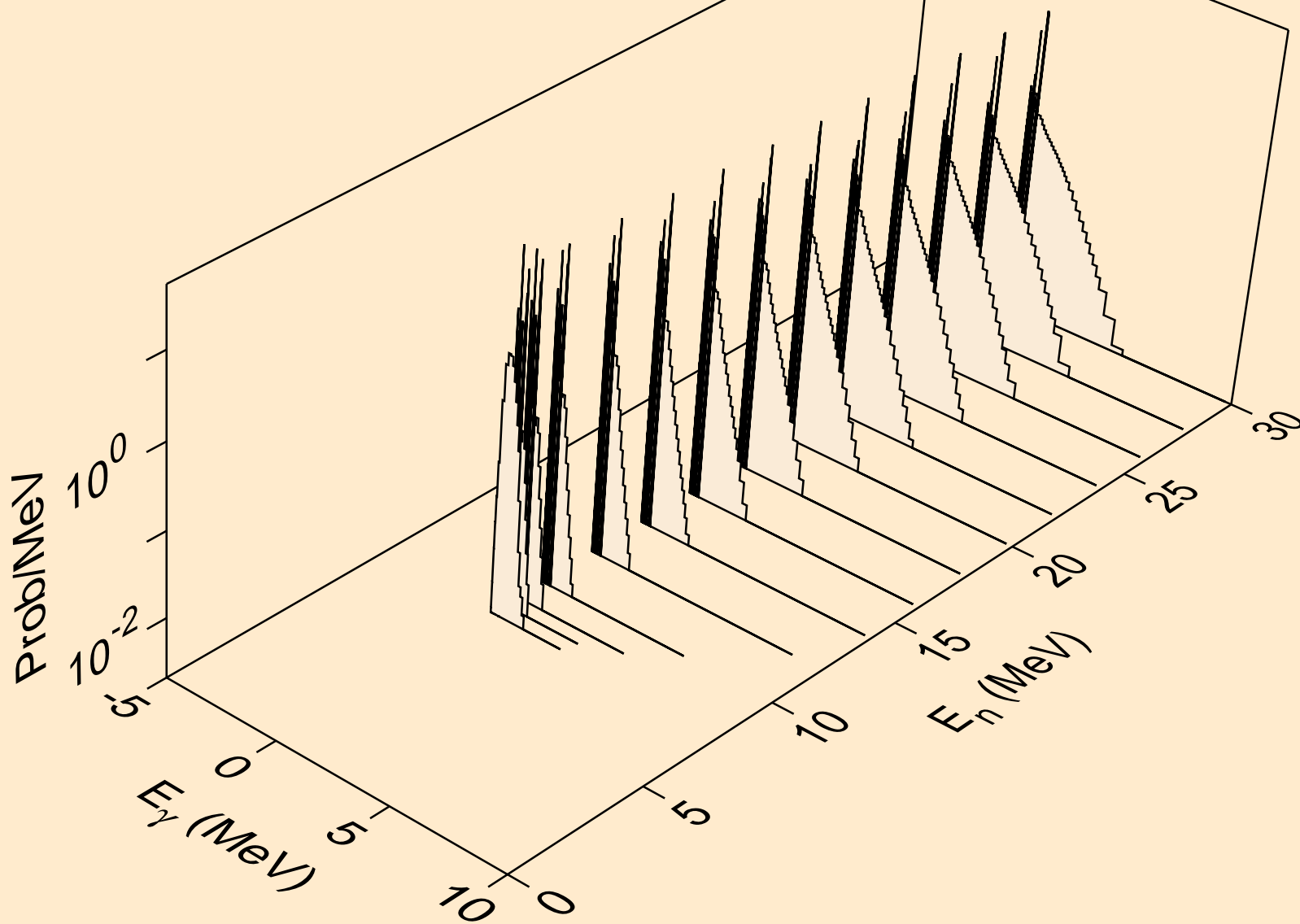
HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3np)



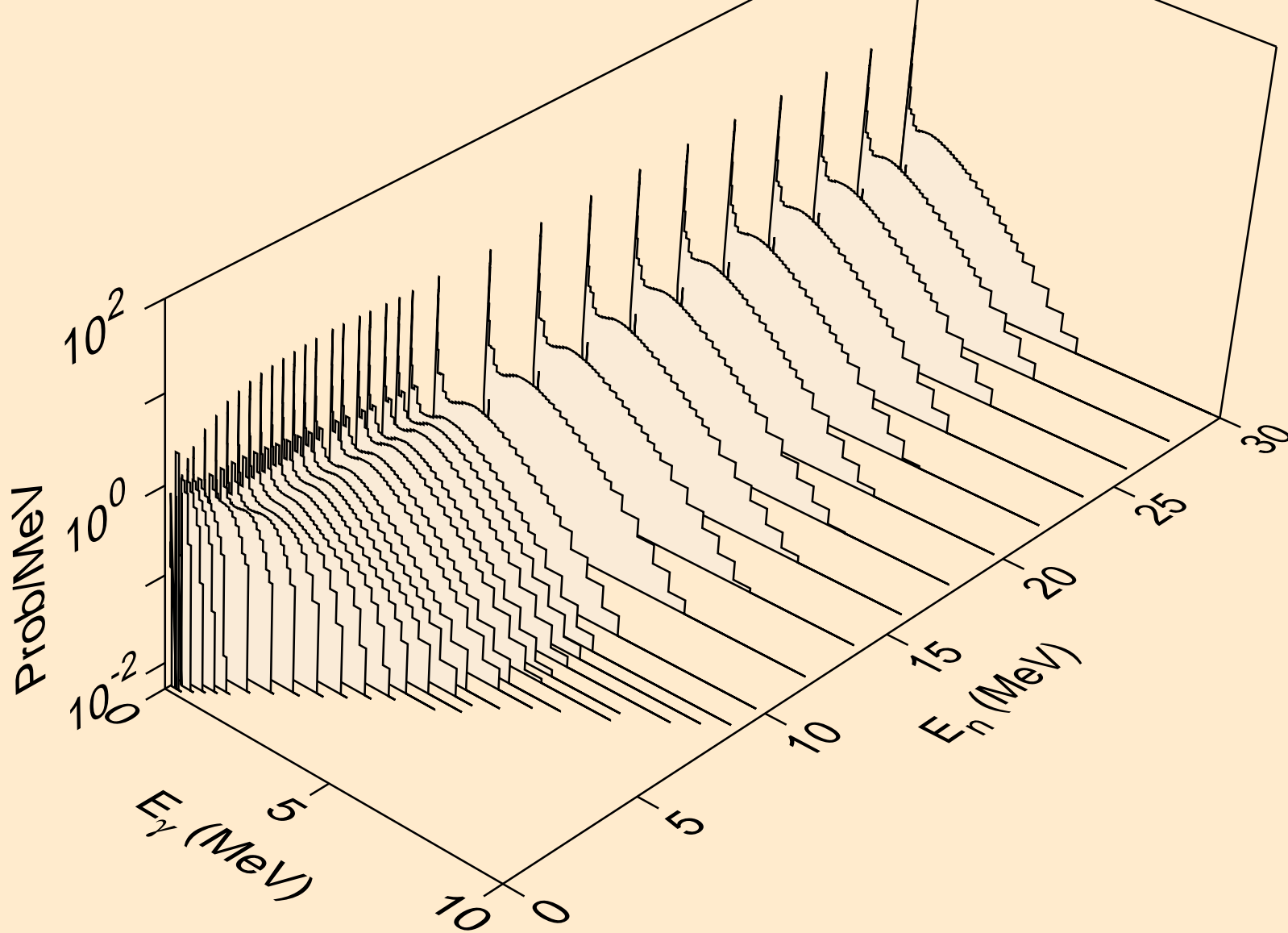
HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2np)



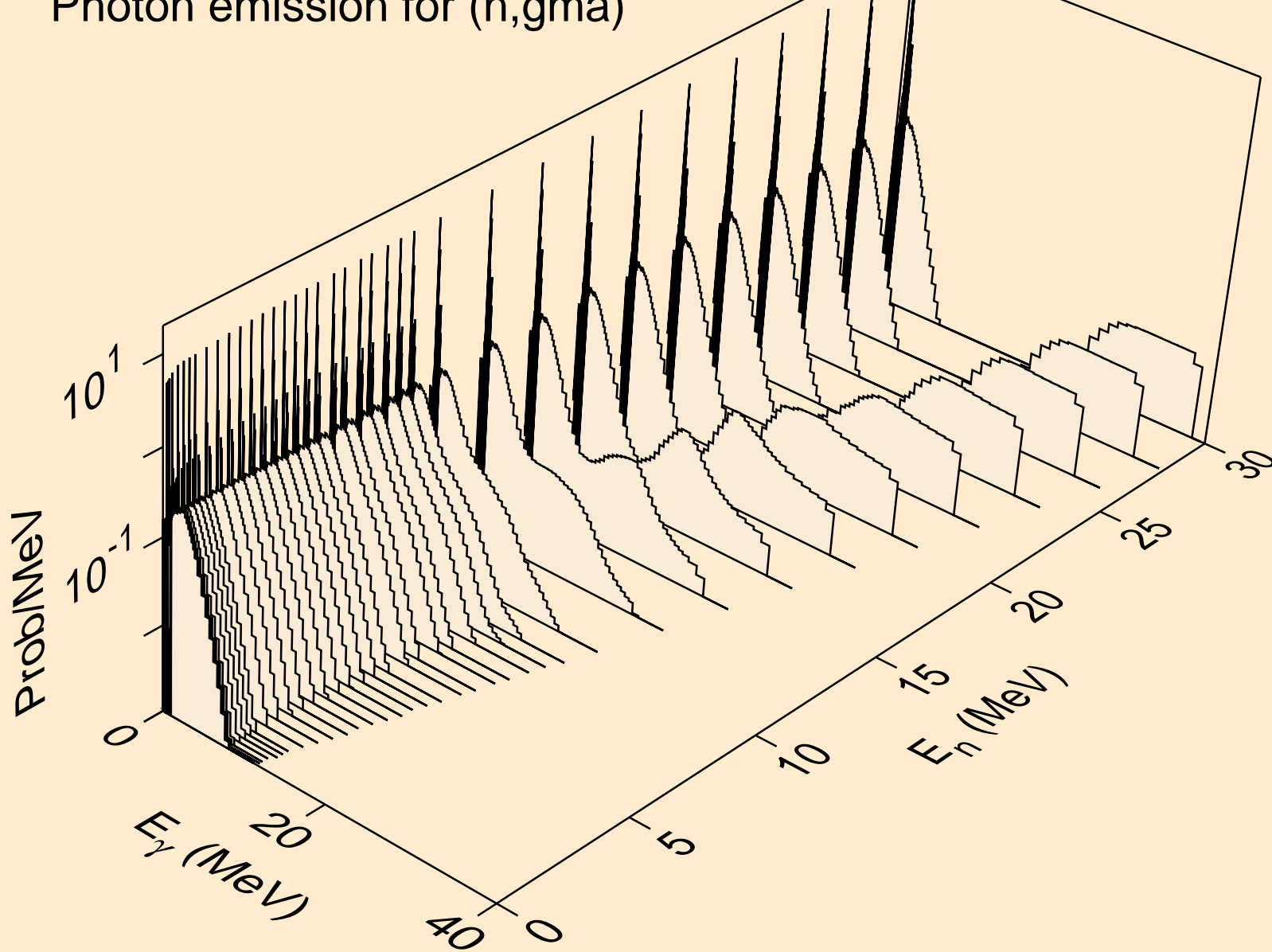
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Photon emission for (n,npa)



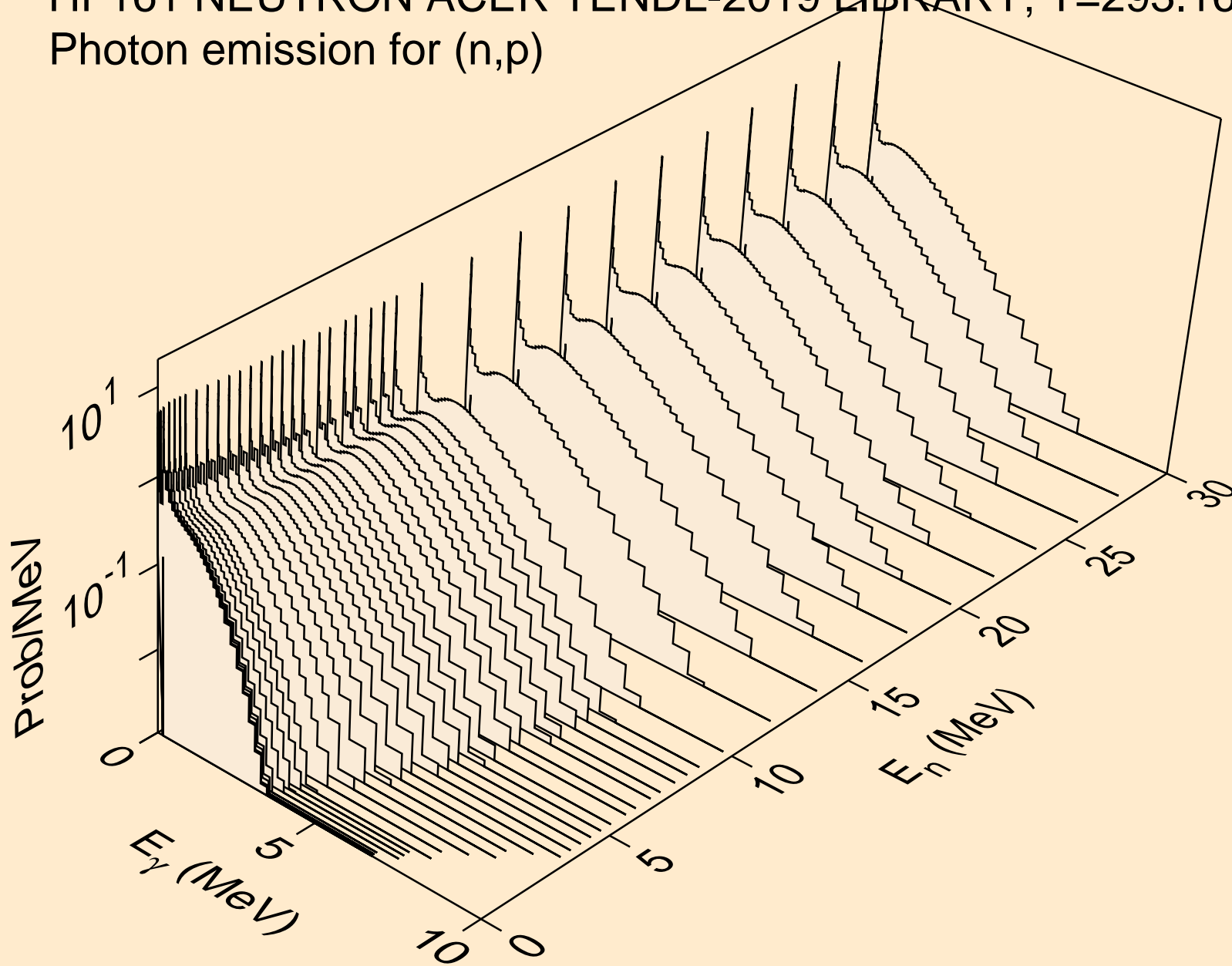
HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*c)



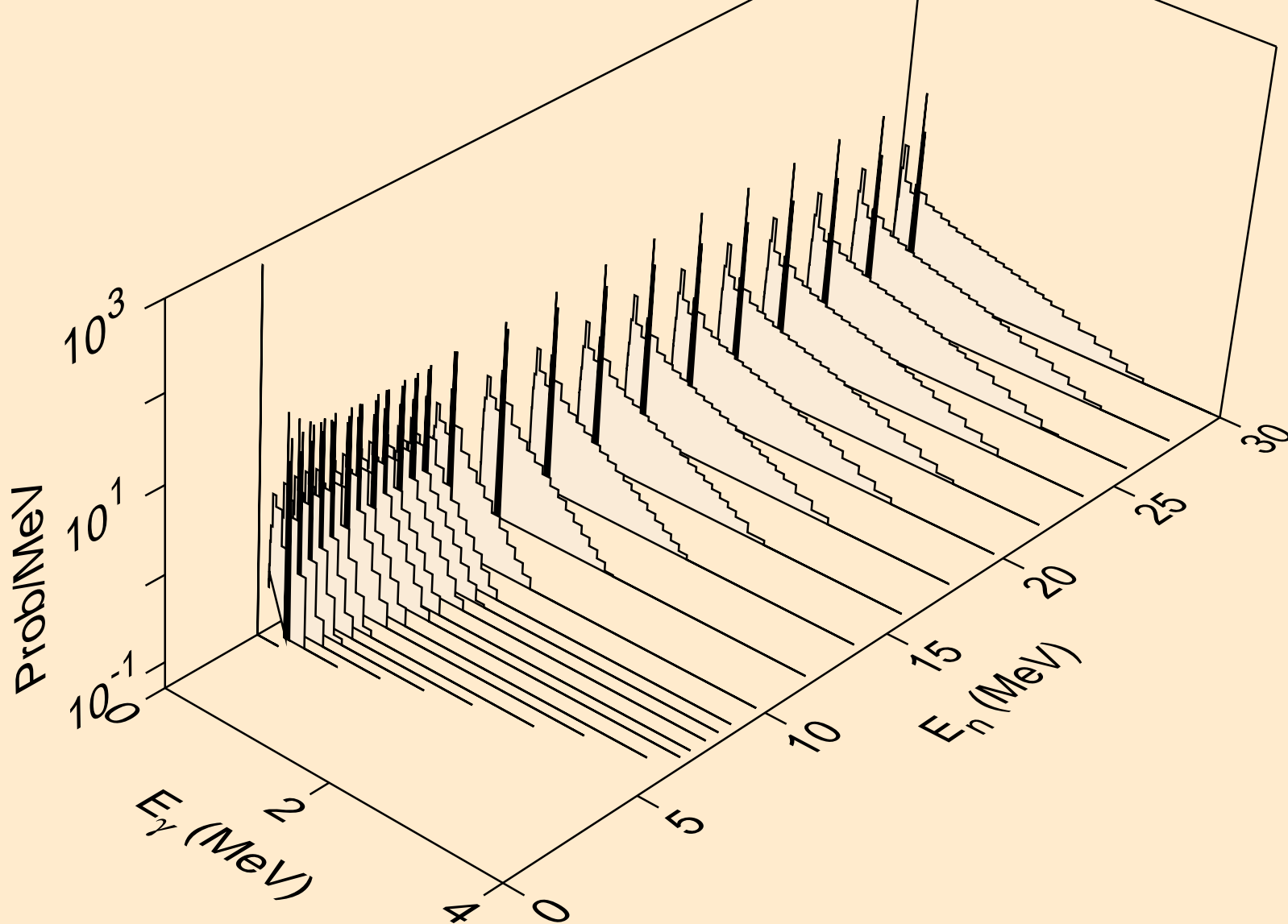
HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,gma)



HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,p)

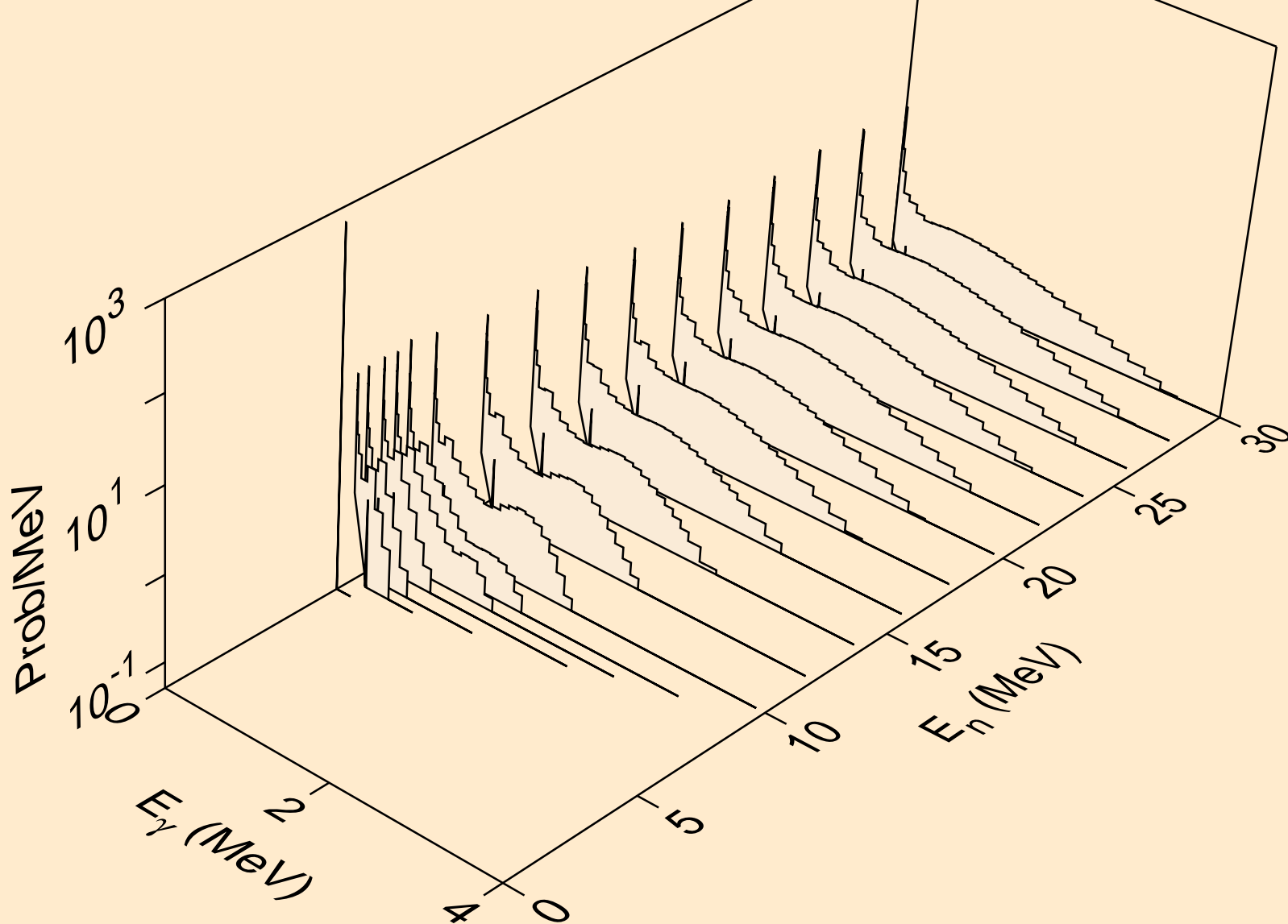


HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,d)

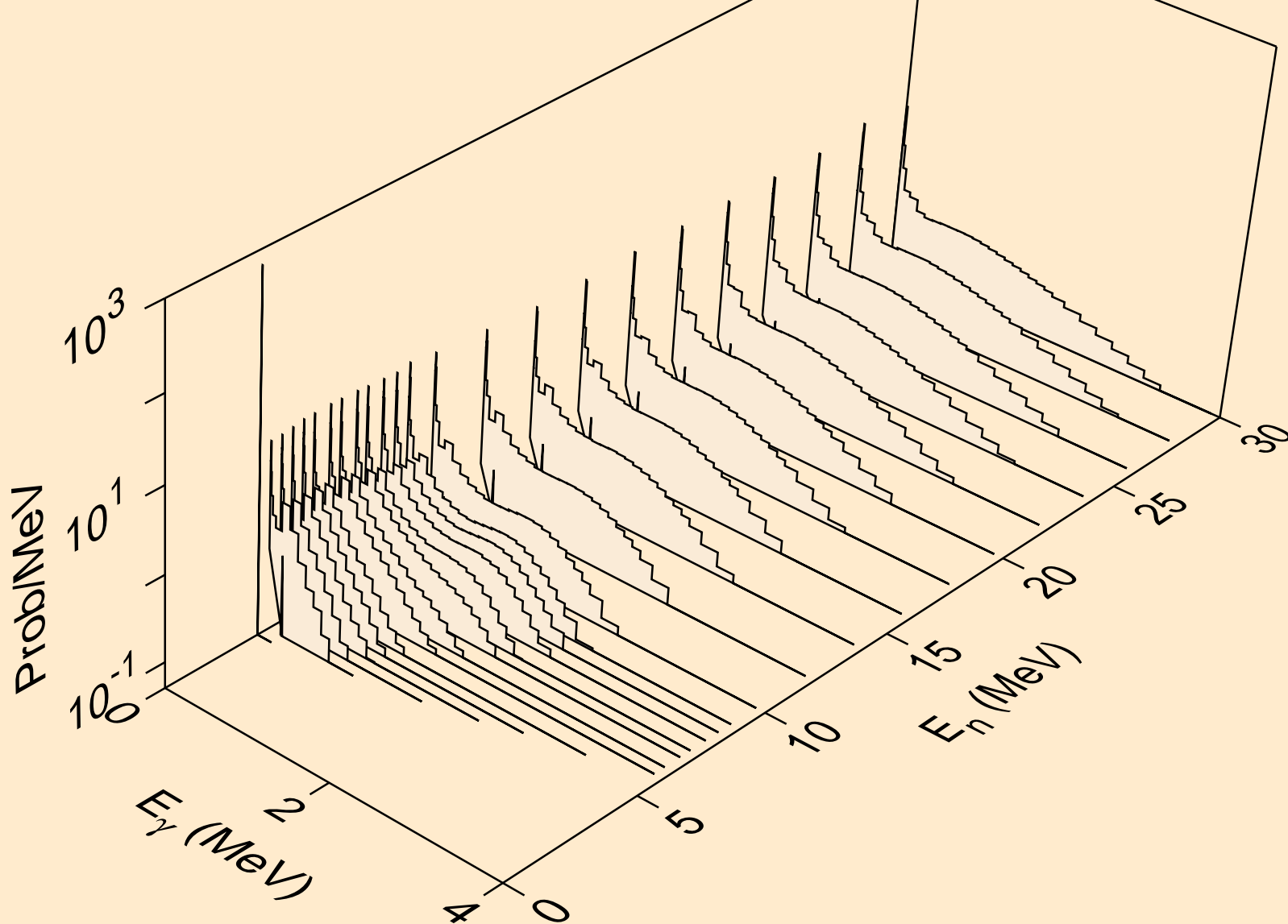




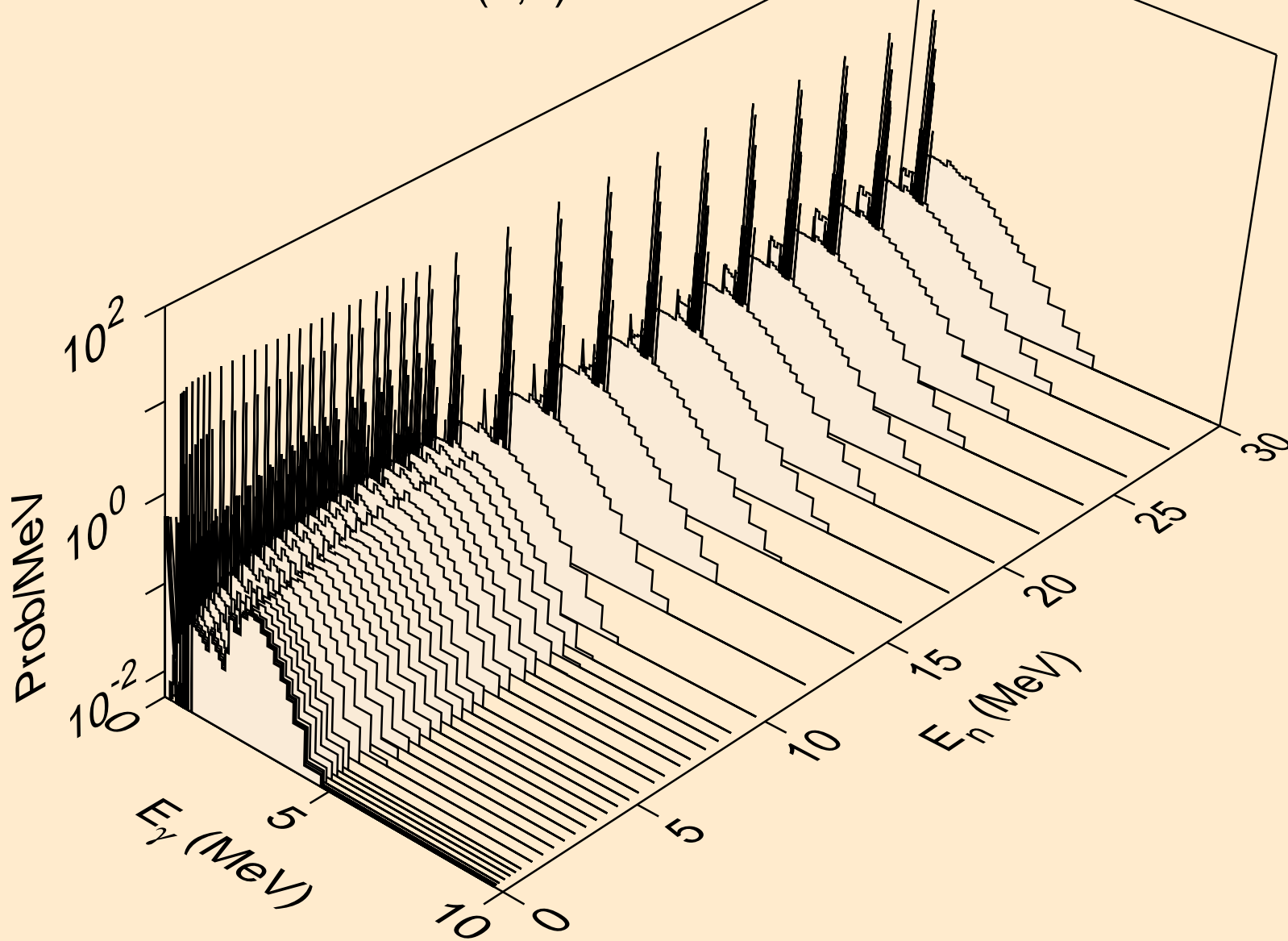
HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,t)



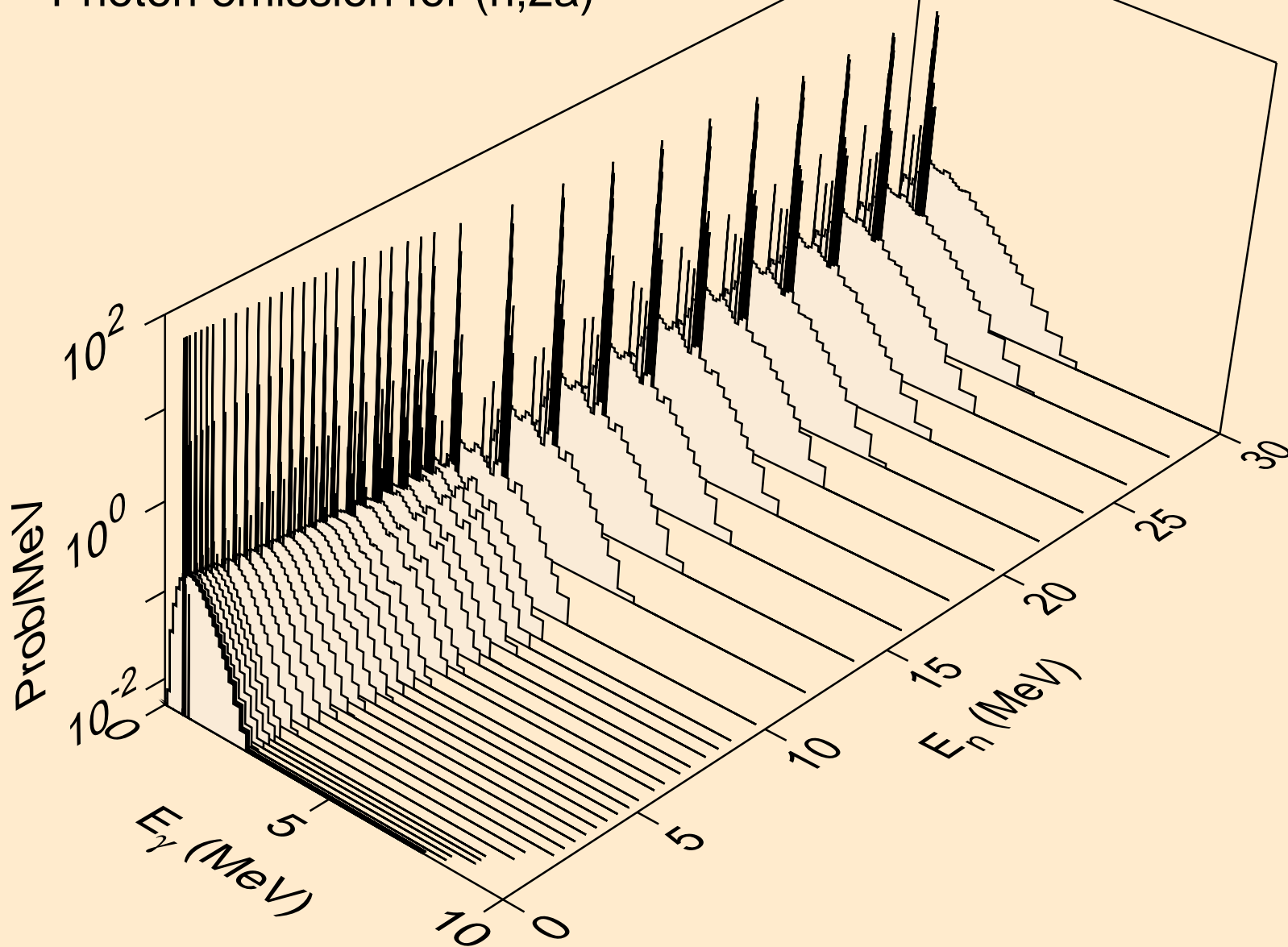
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Photon emission for (n,he3)



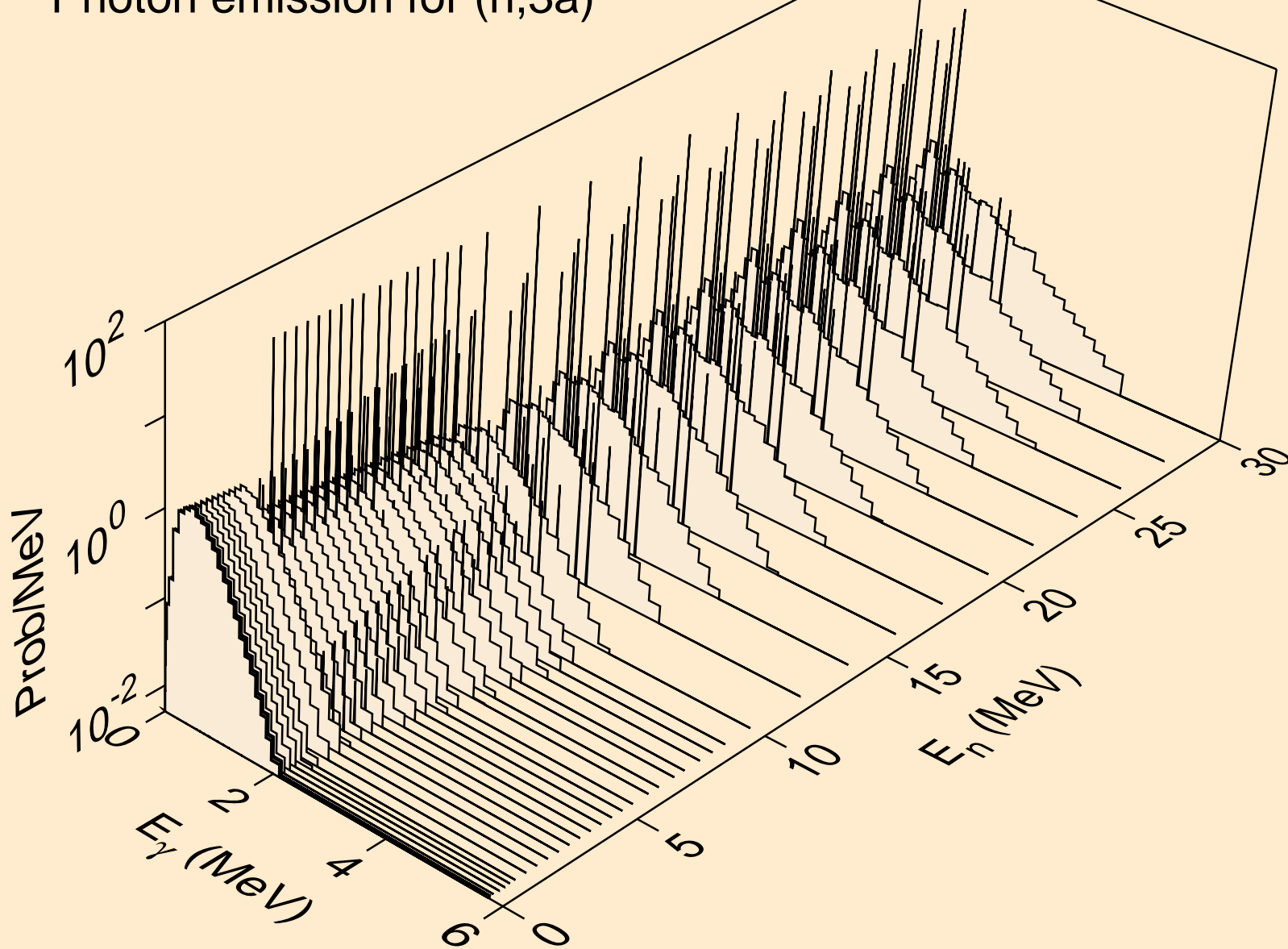
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Photon emission for (n,a)



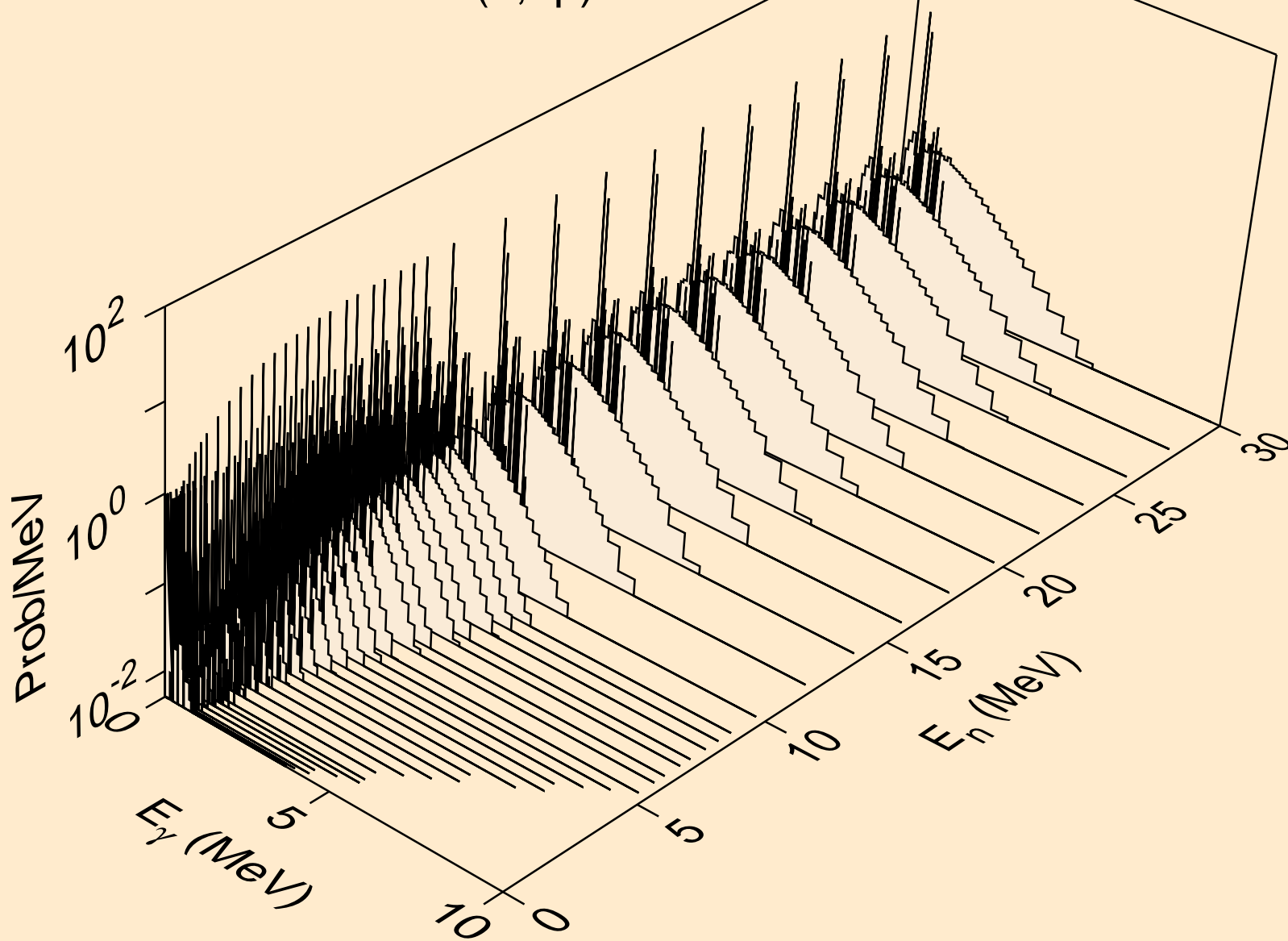
HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2a)



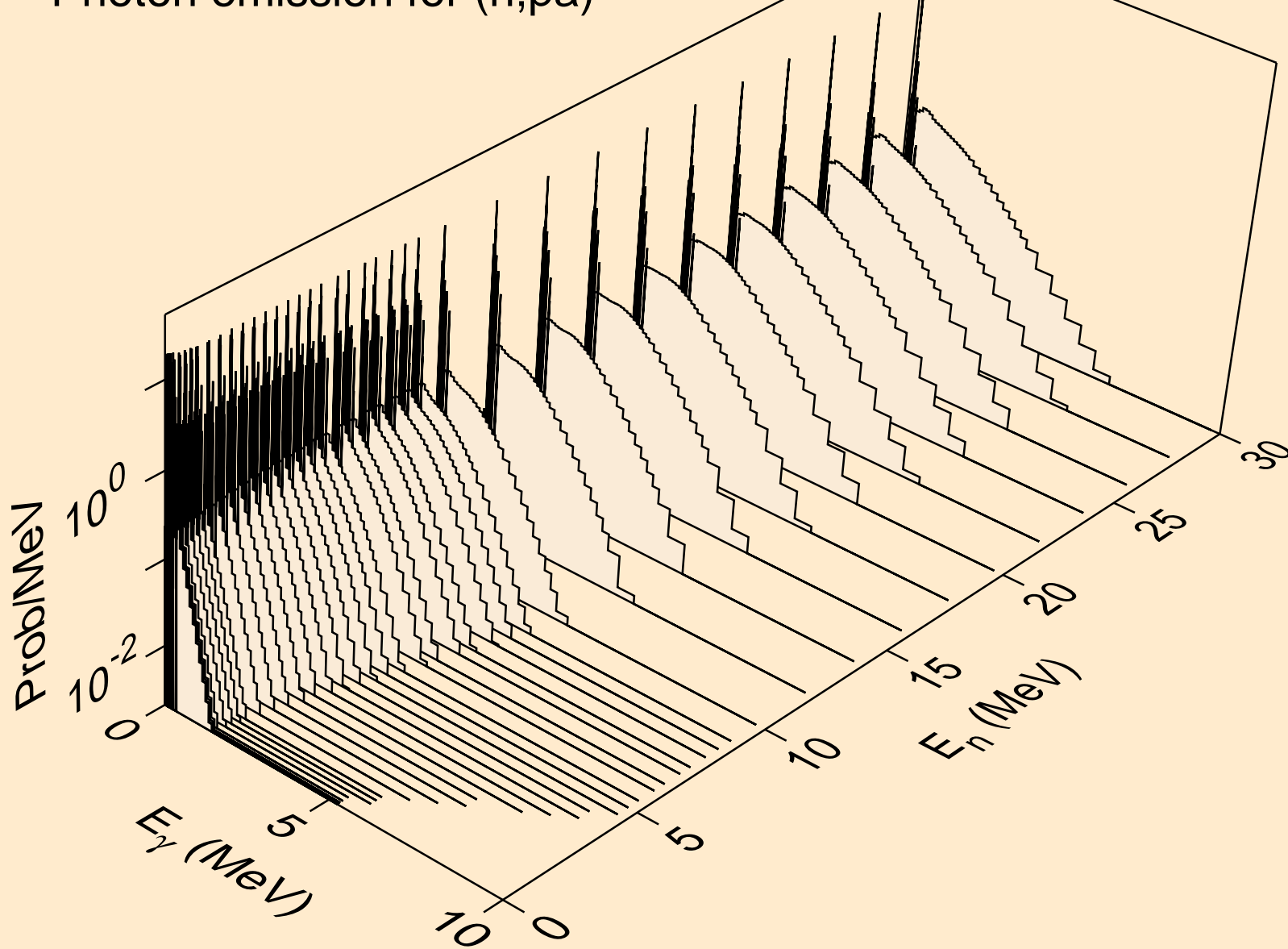
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Photon emission for (n,3a)



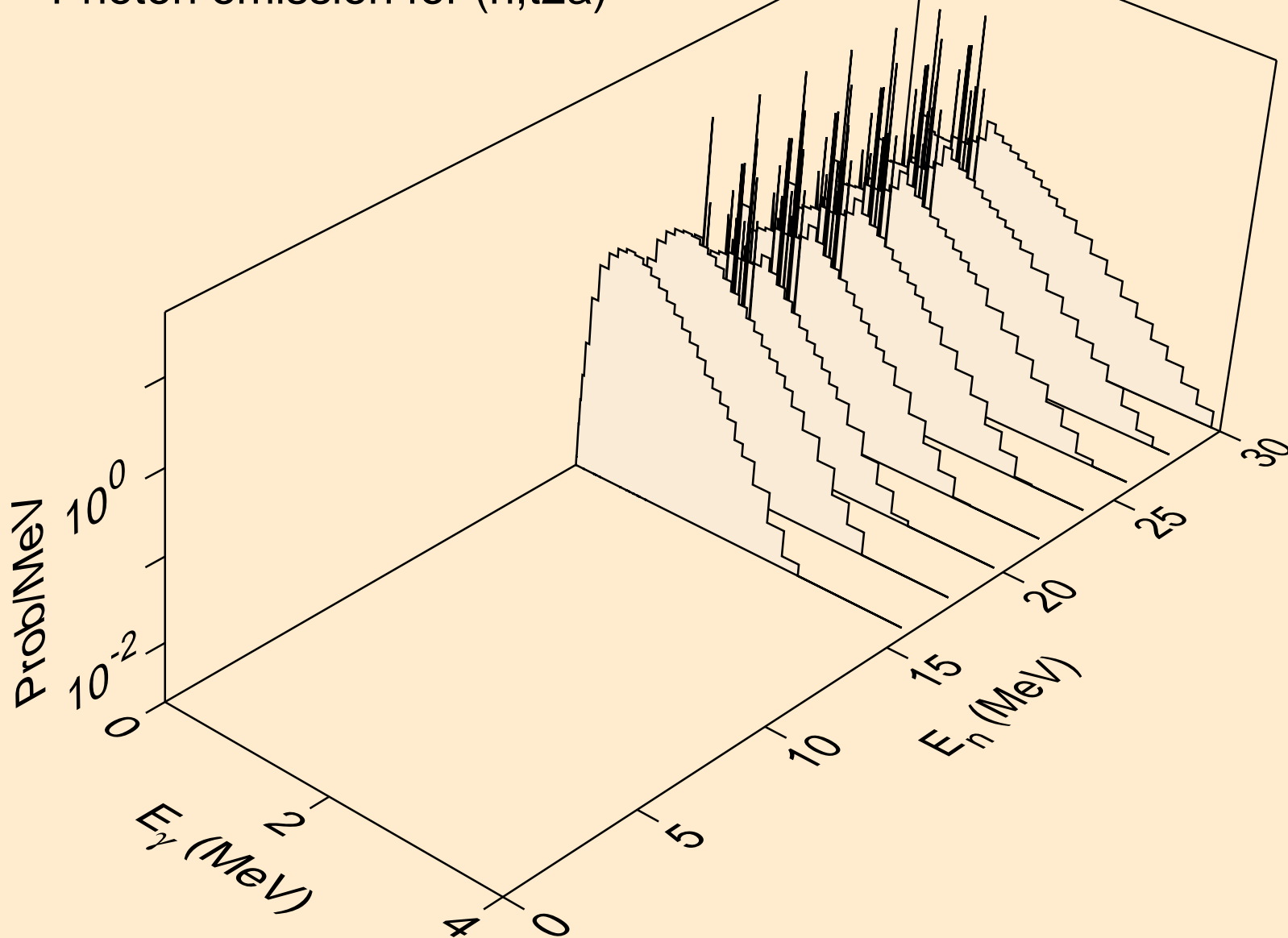
HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2p)



HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,p)

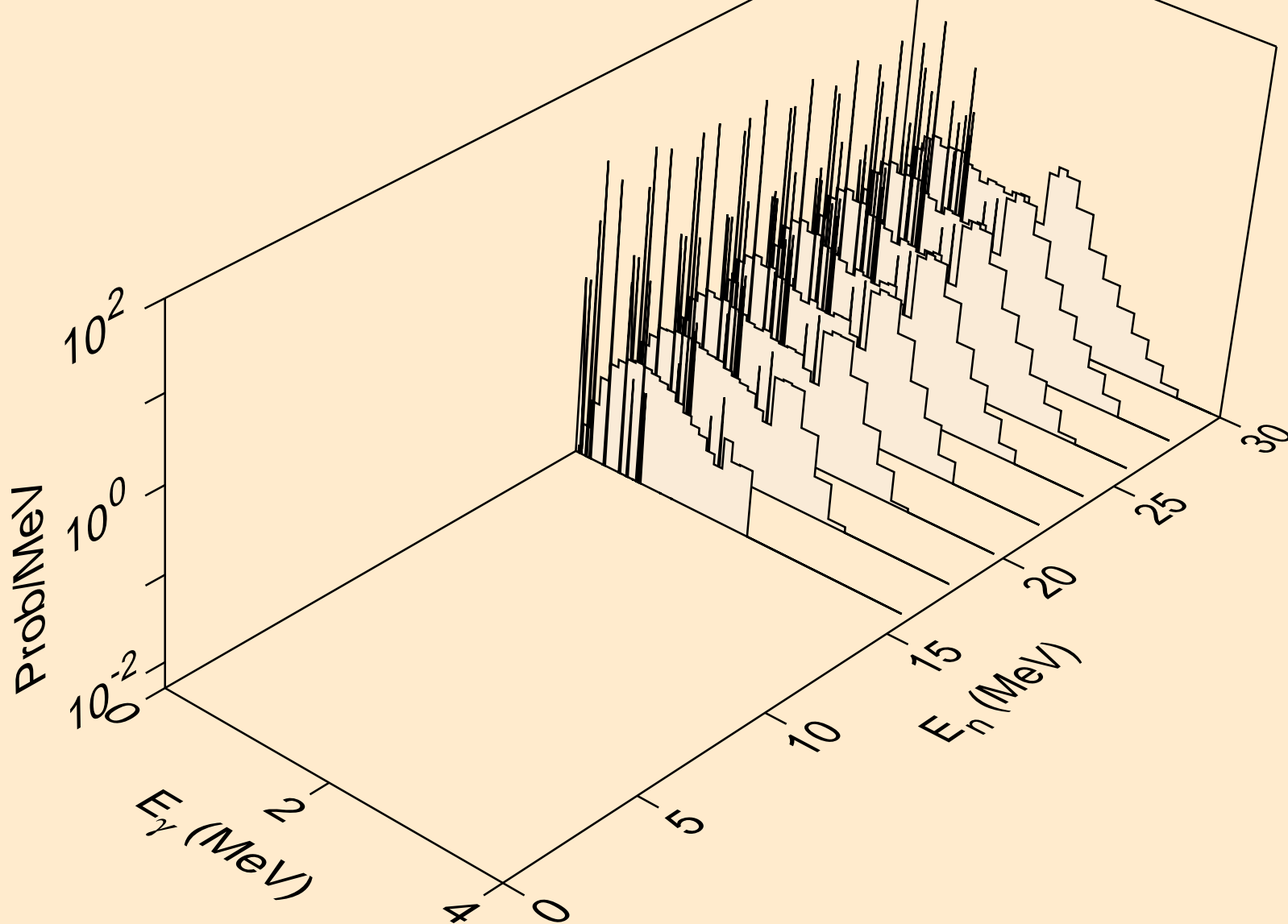


HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,t2a)

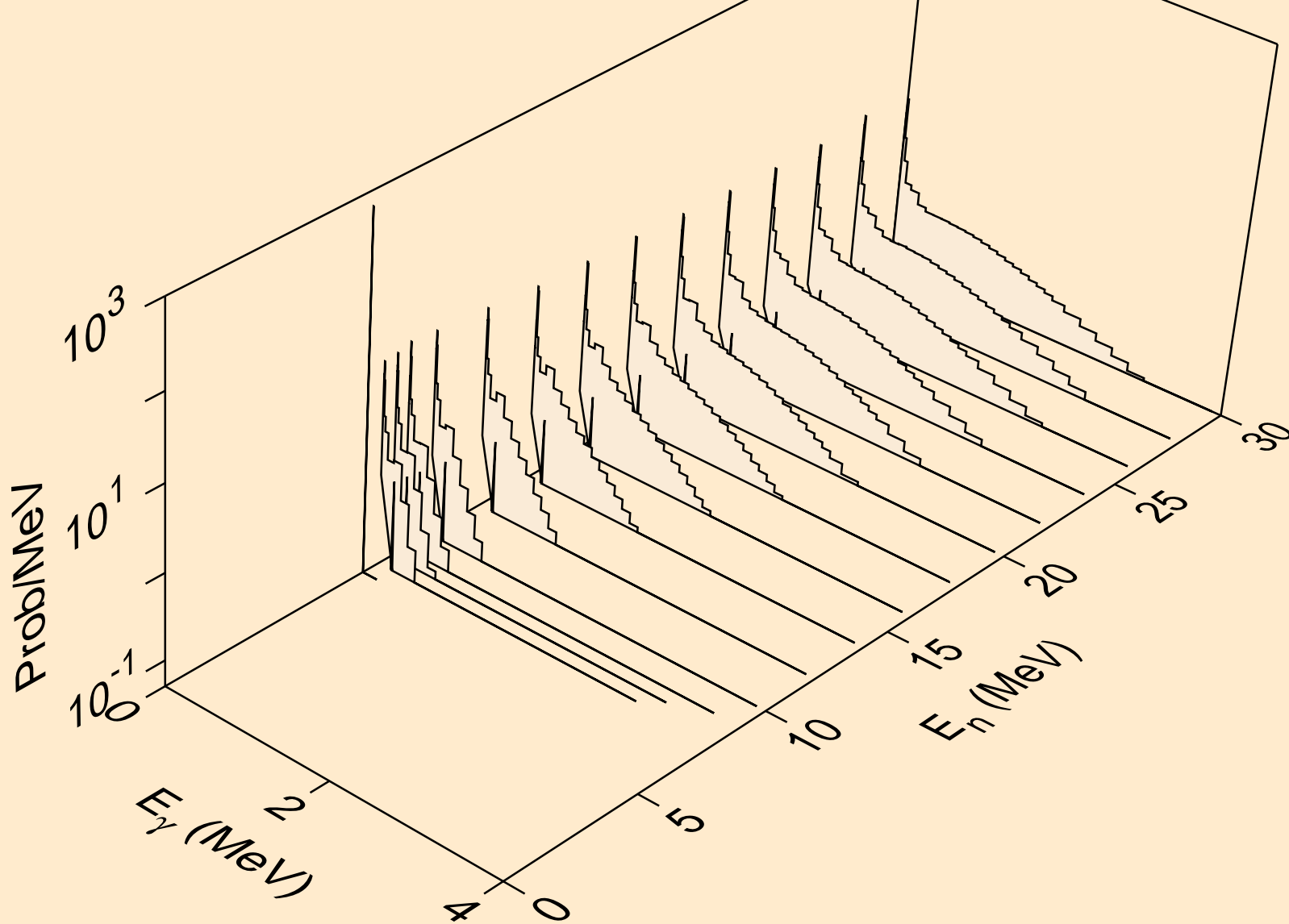




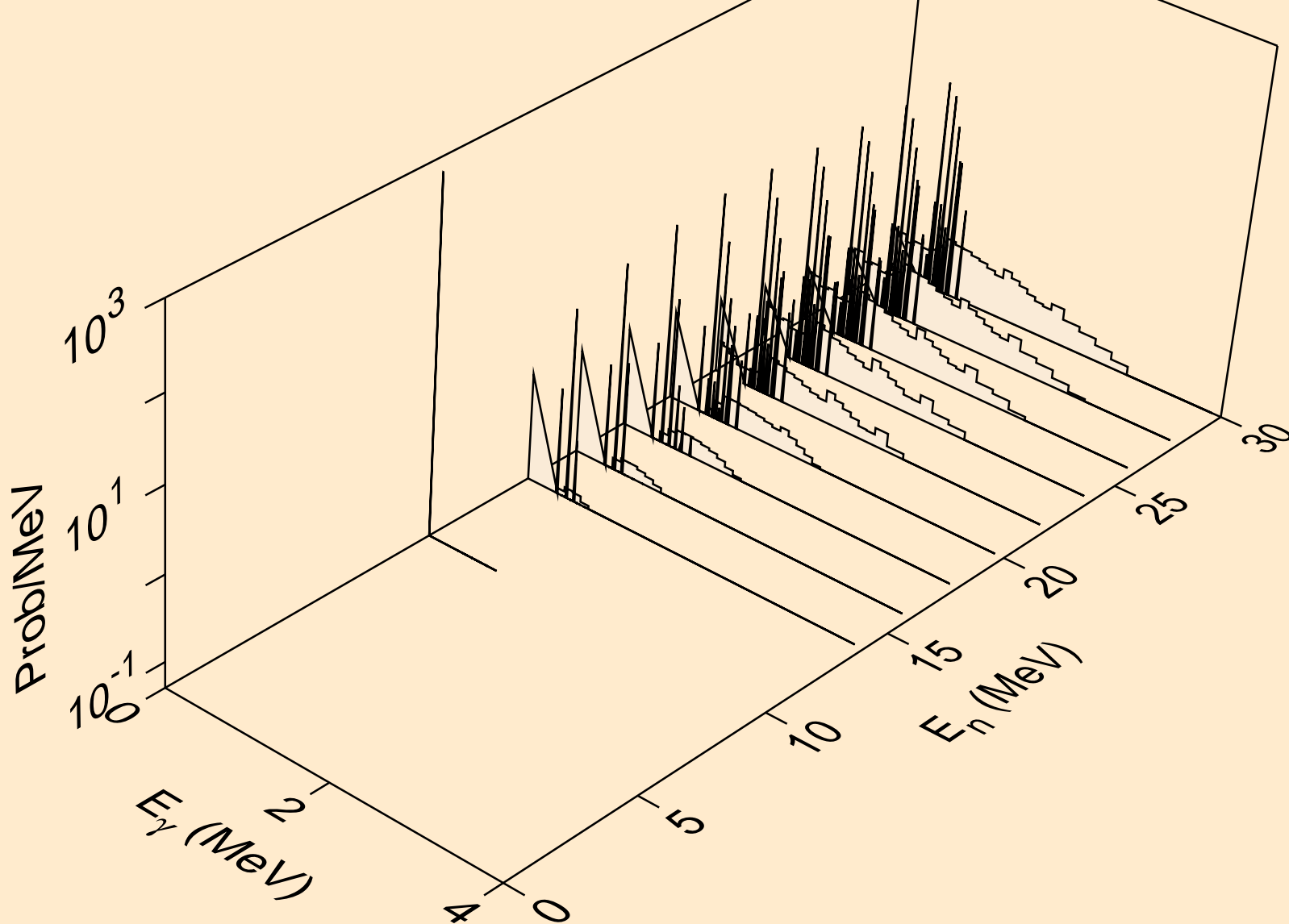
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Photon emission for (n,d2a)



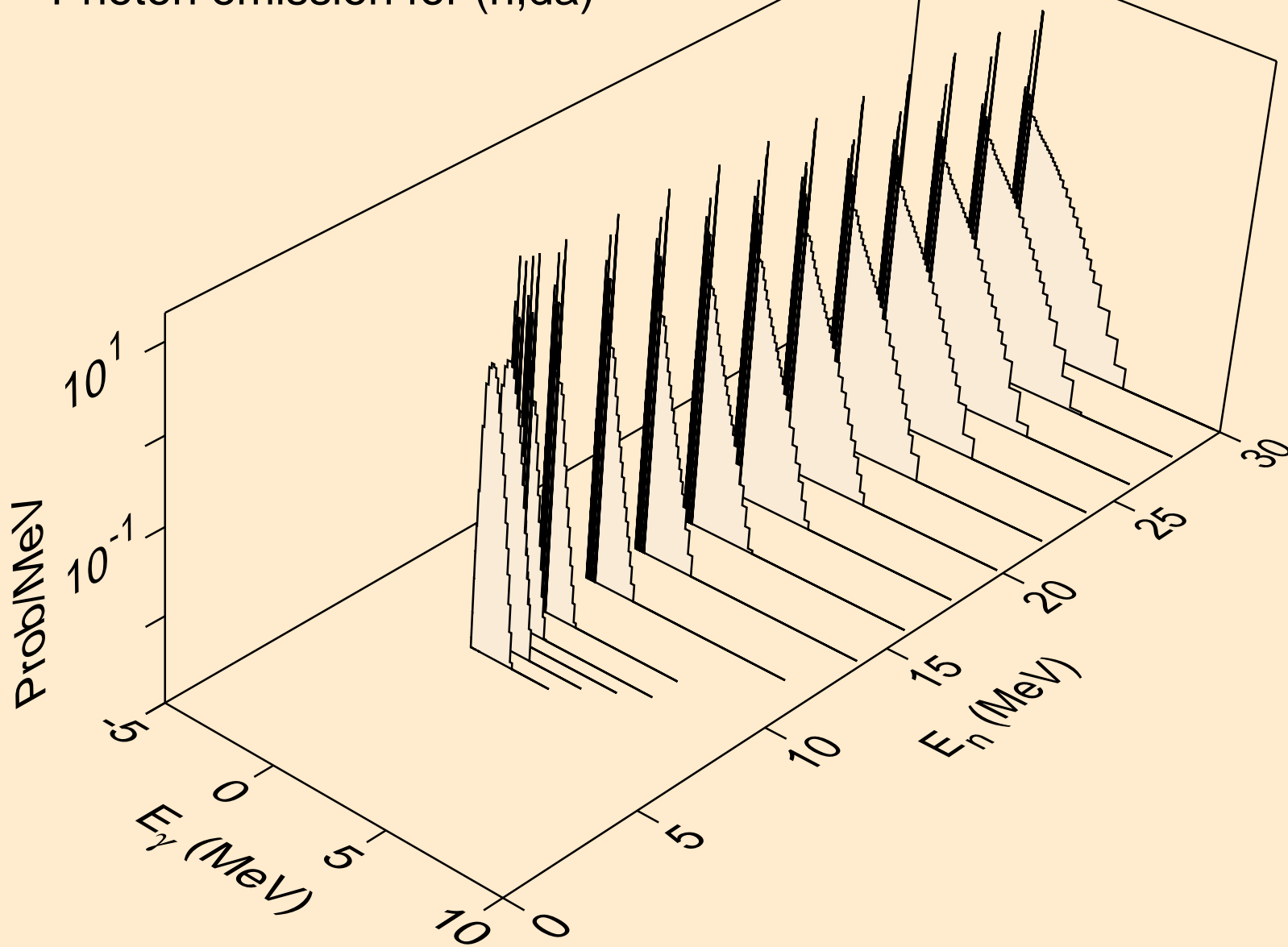
HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,pd)



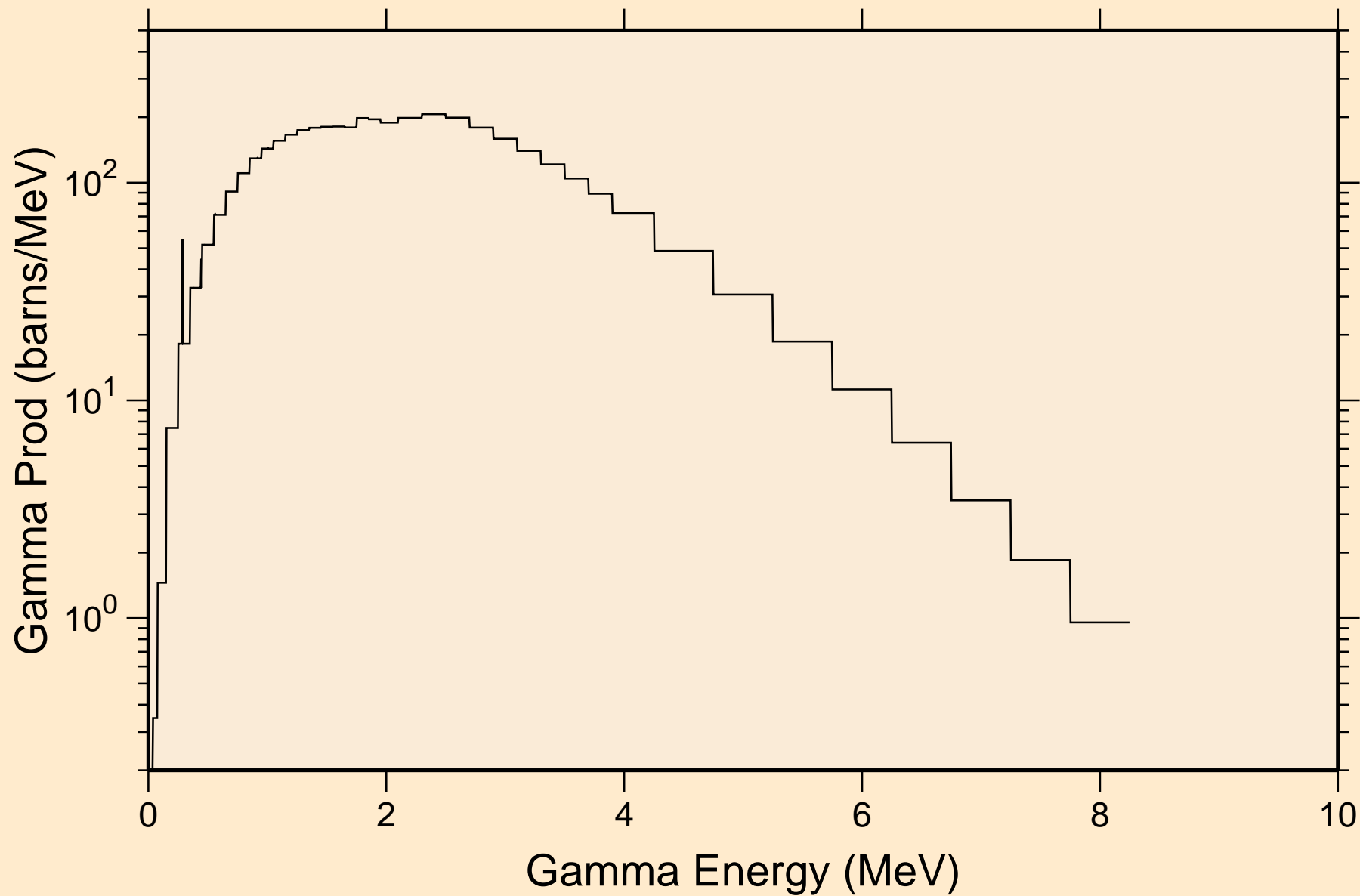
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Photon emission for (n,pt)



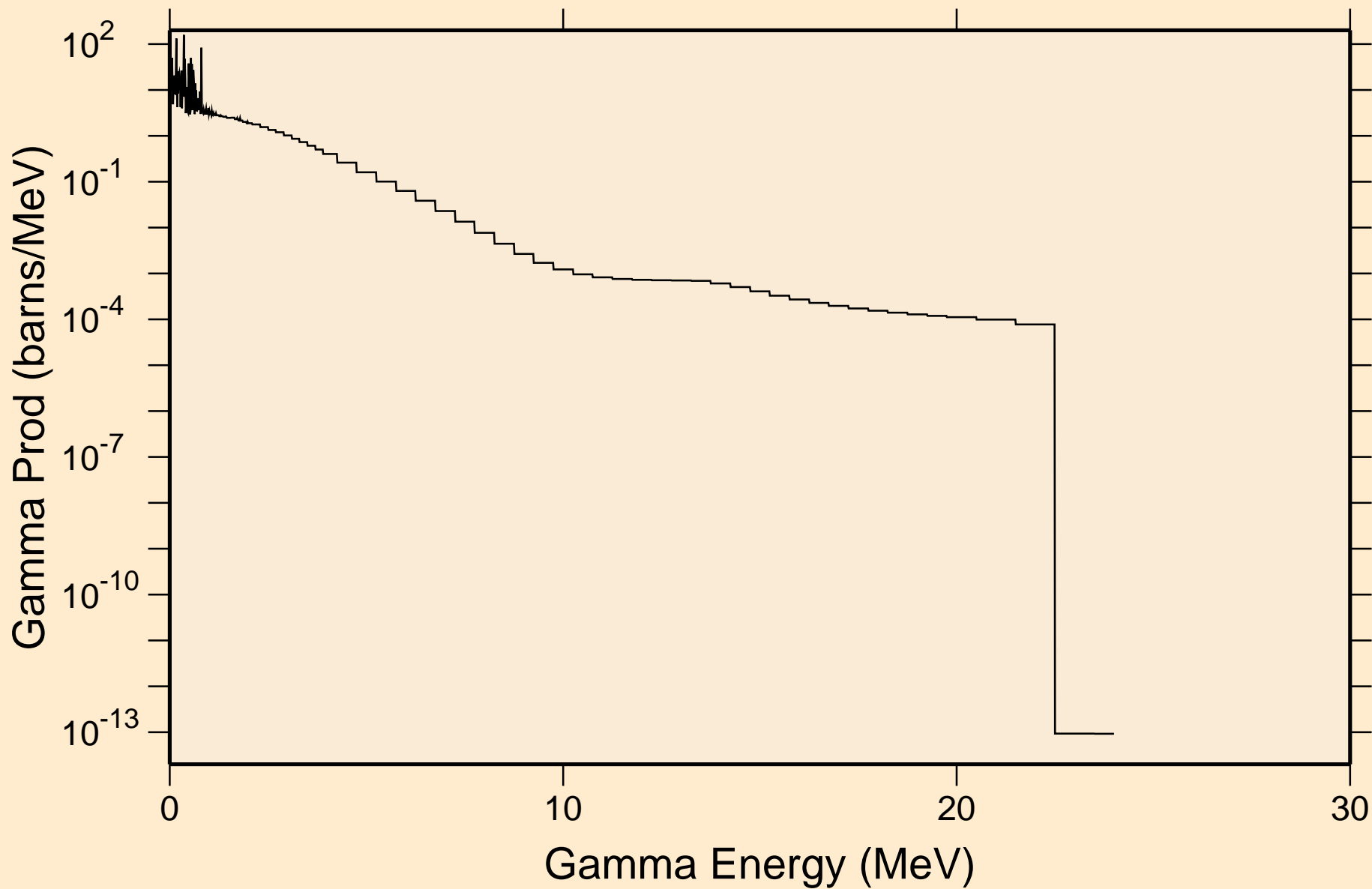
HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,da)



HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
thermal capture photon spectrum

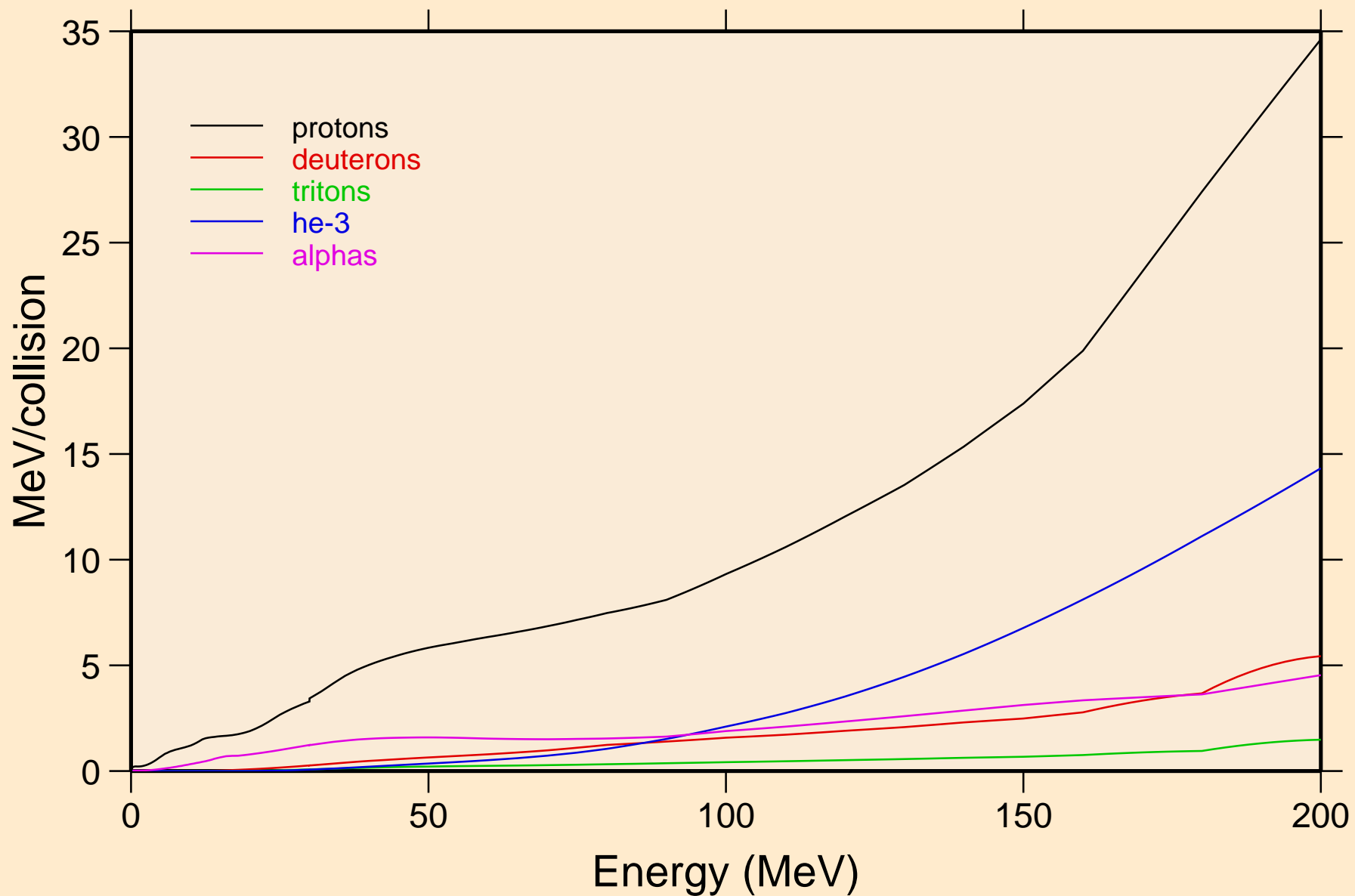


HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
14 MeV photon spectrum

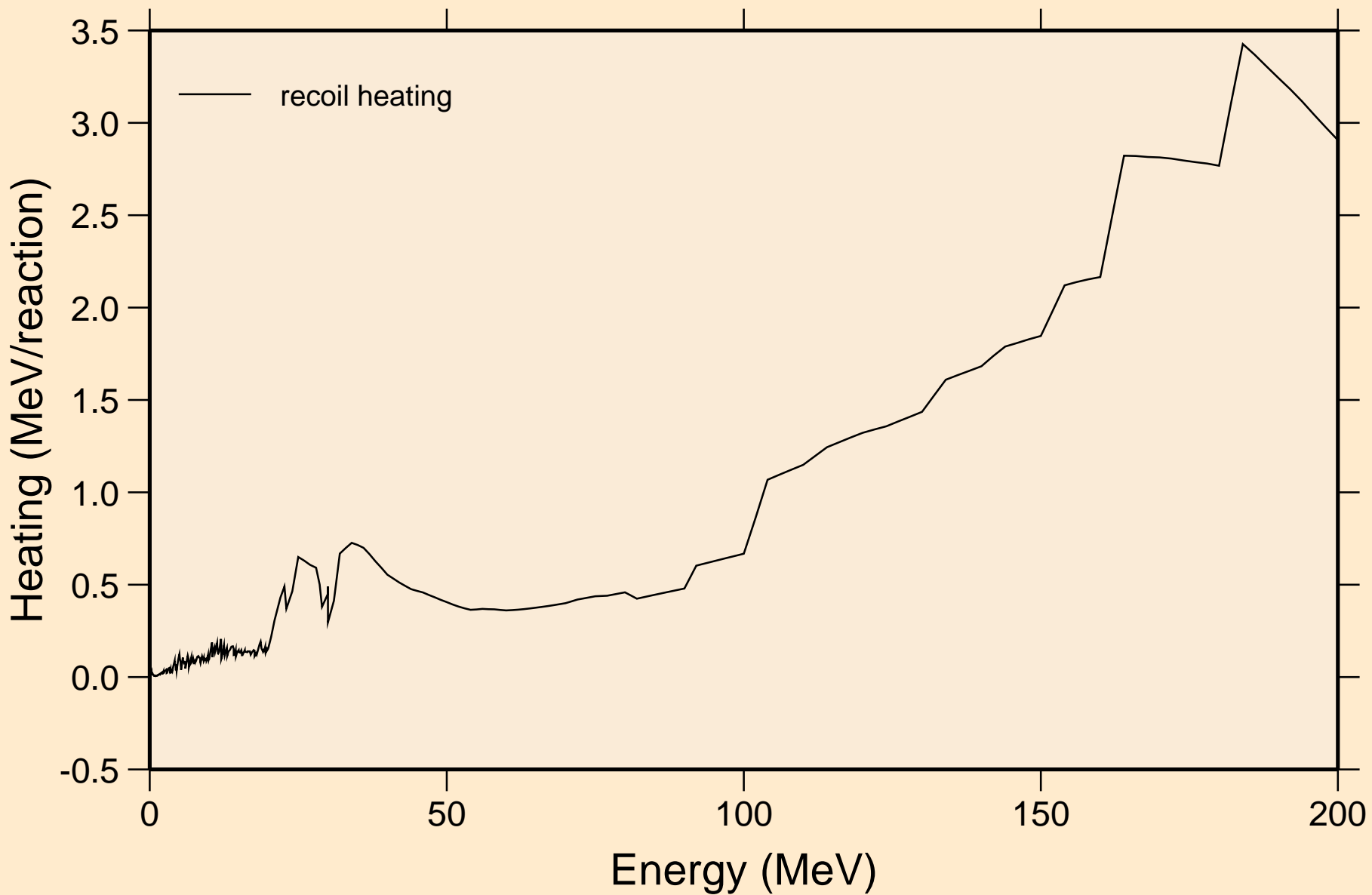


# HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Particle heating contributions



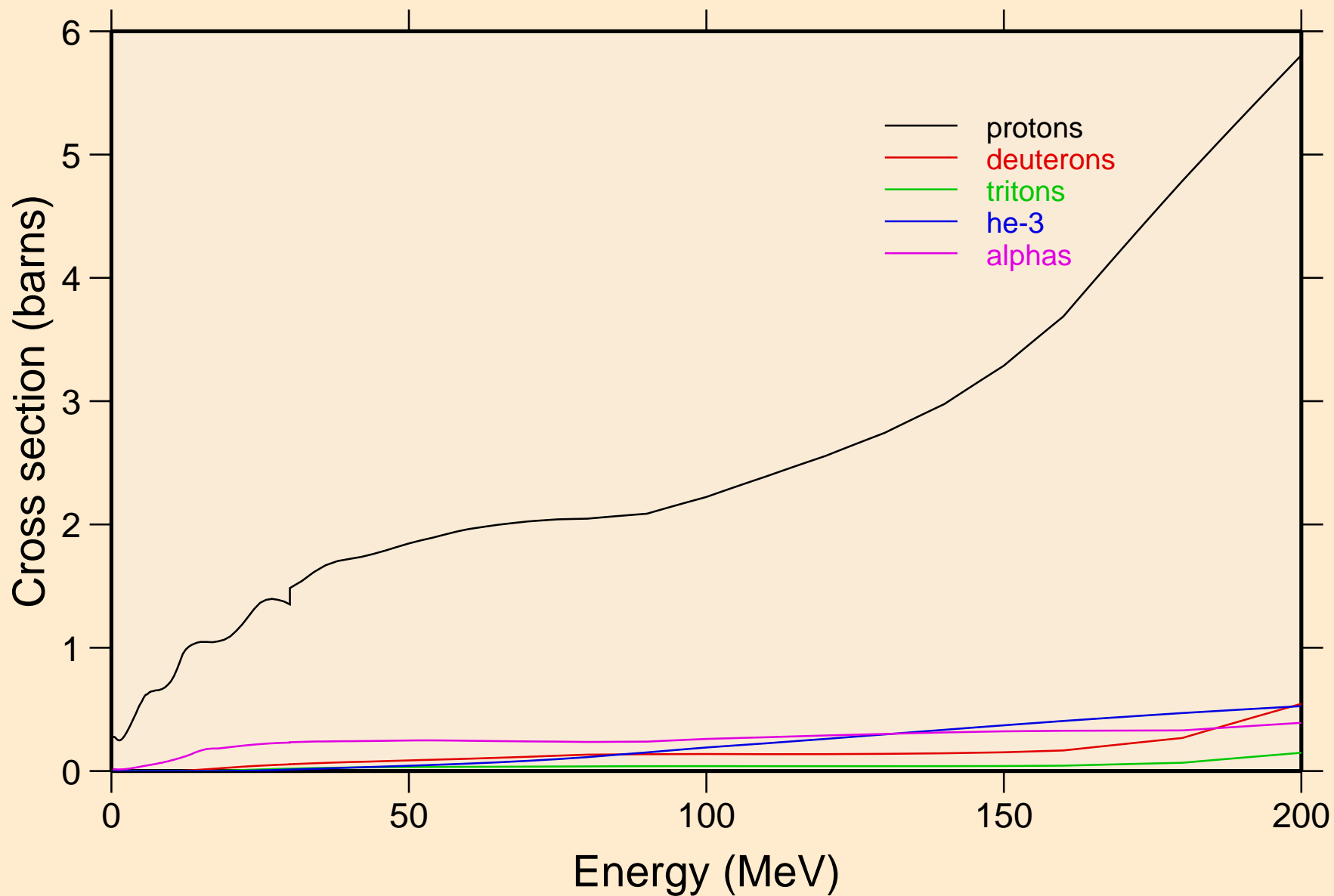
HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Recoil Heating



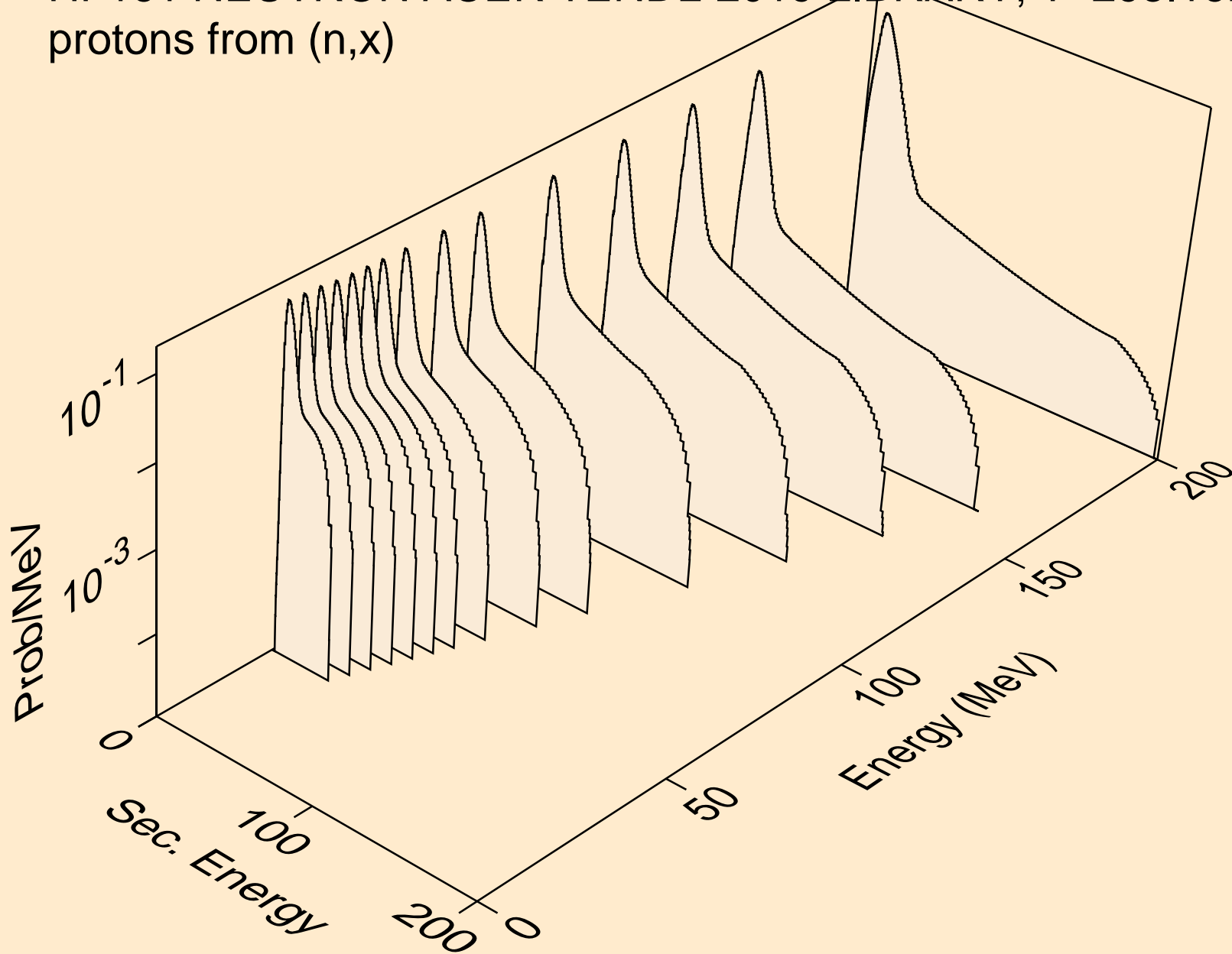


# HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

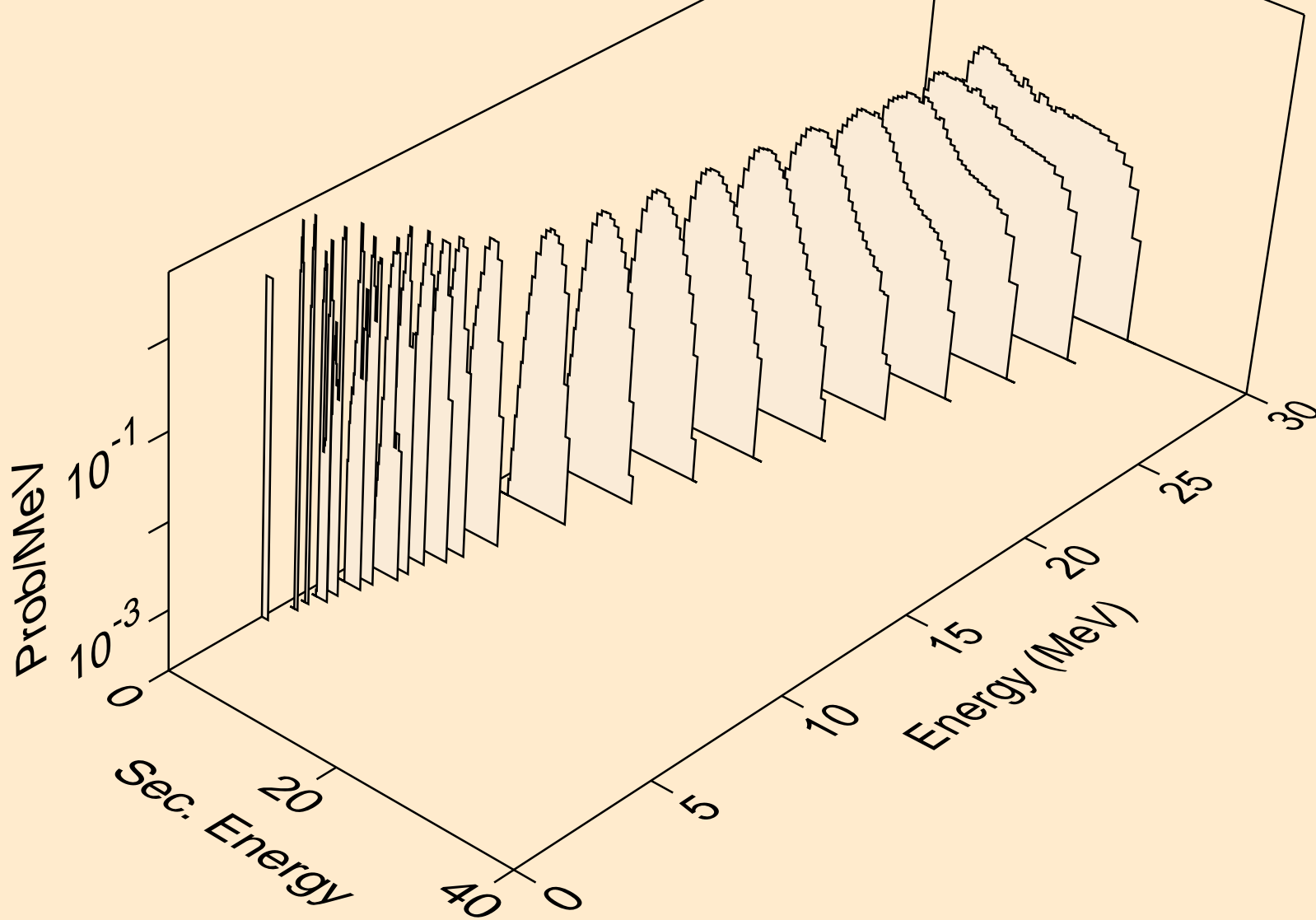
## Particle production cross sections



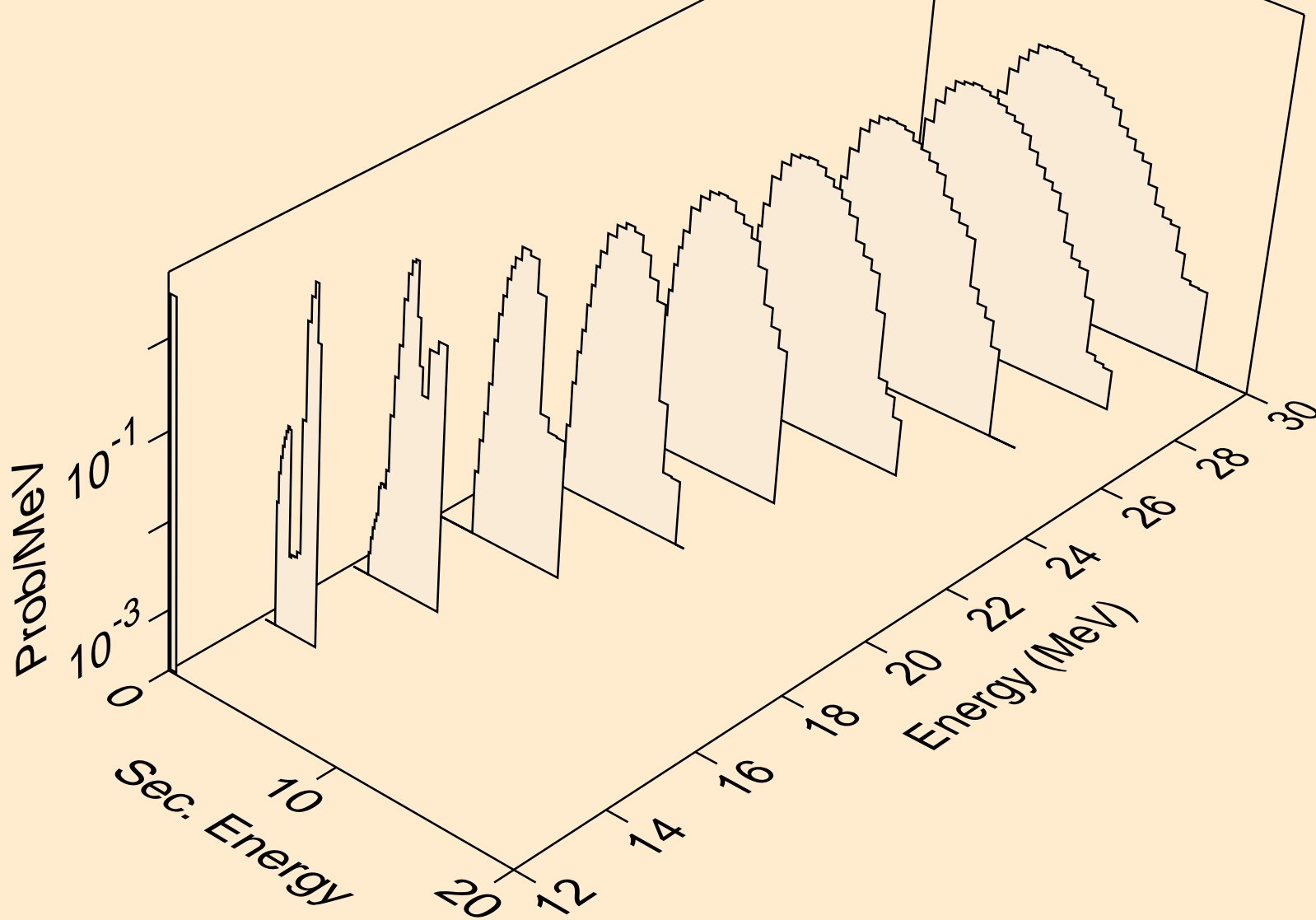
HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,x)



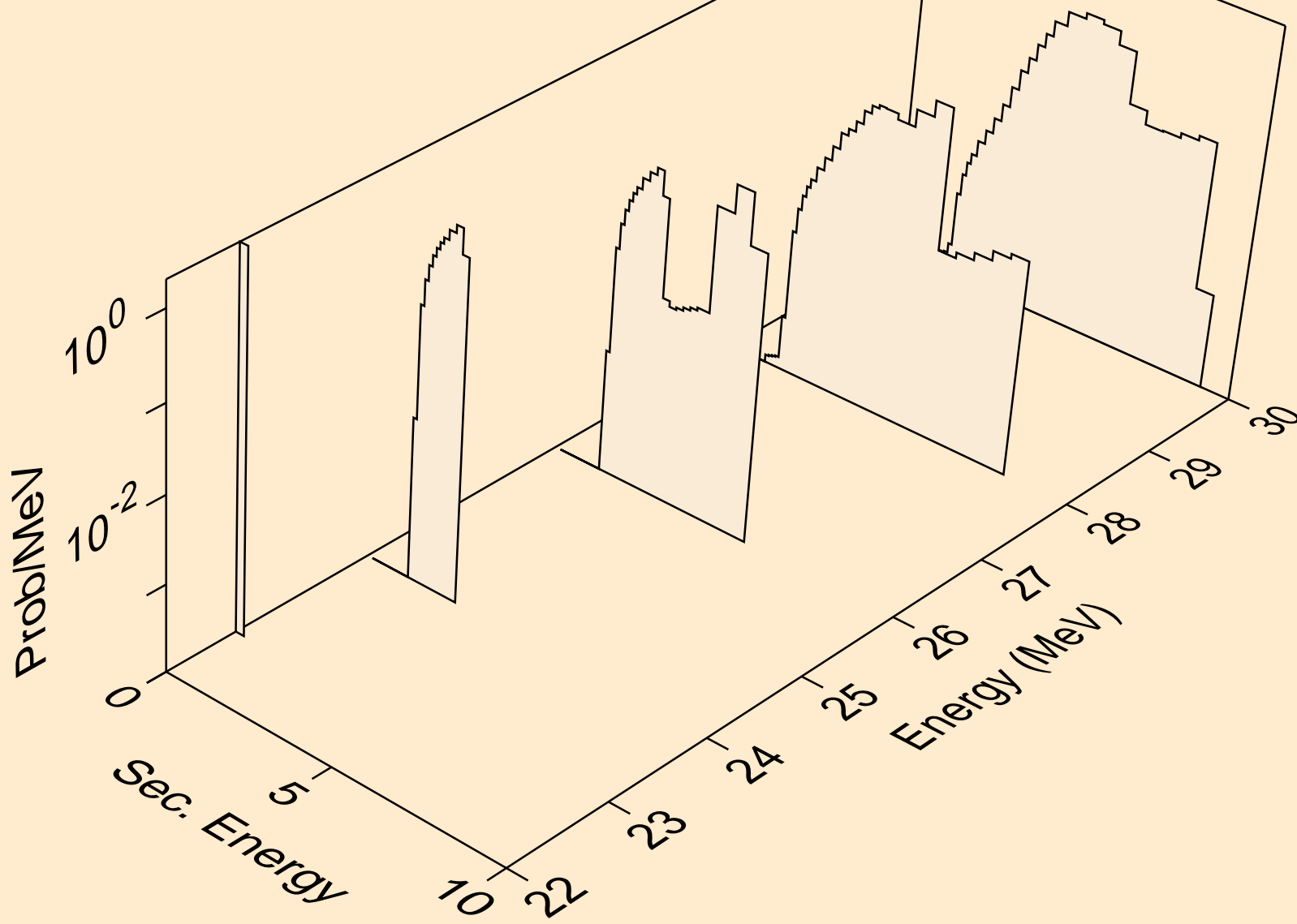
HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,n\*)p



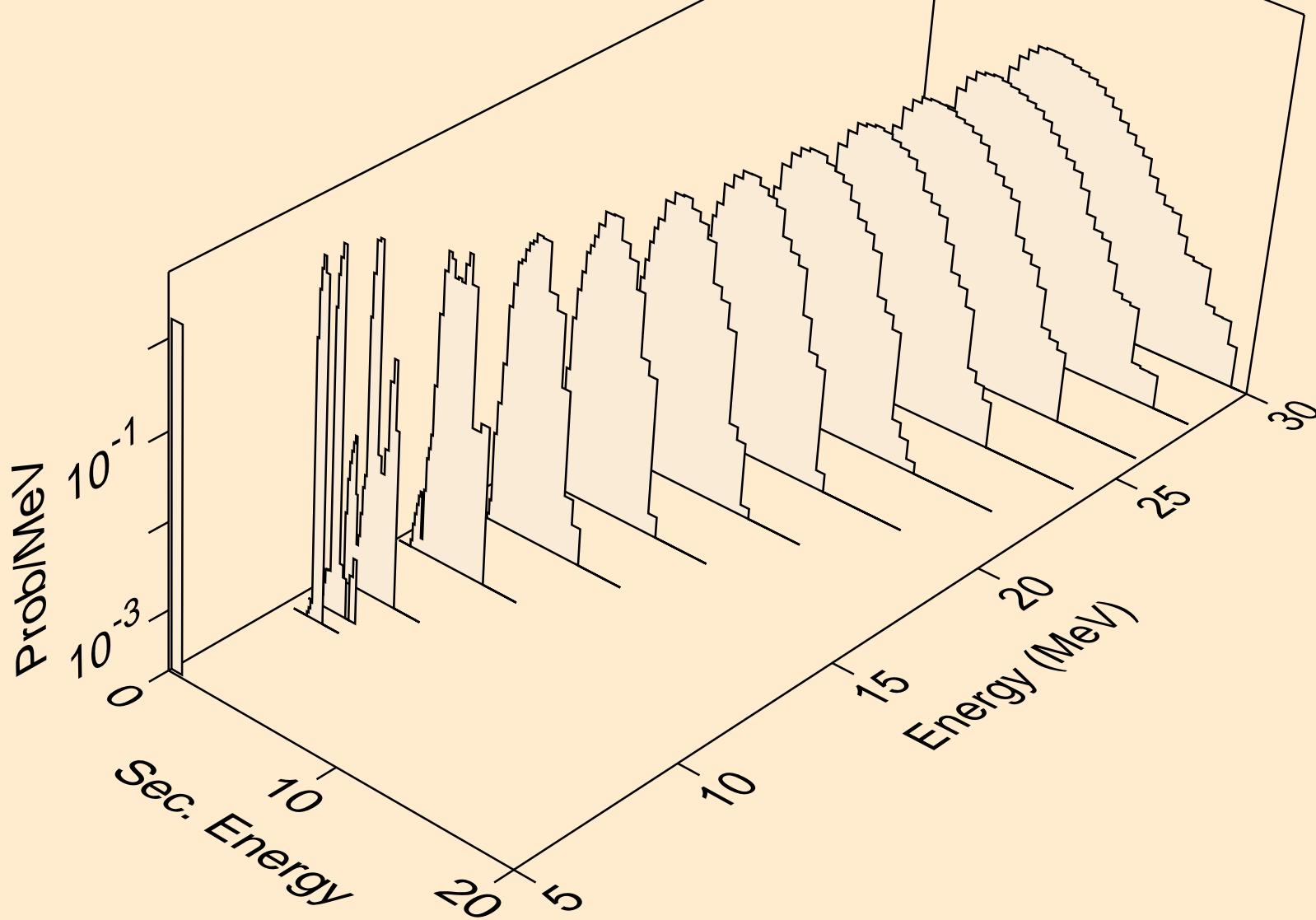
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protons from (n,2np)



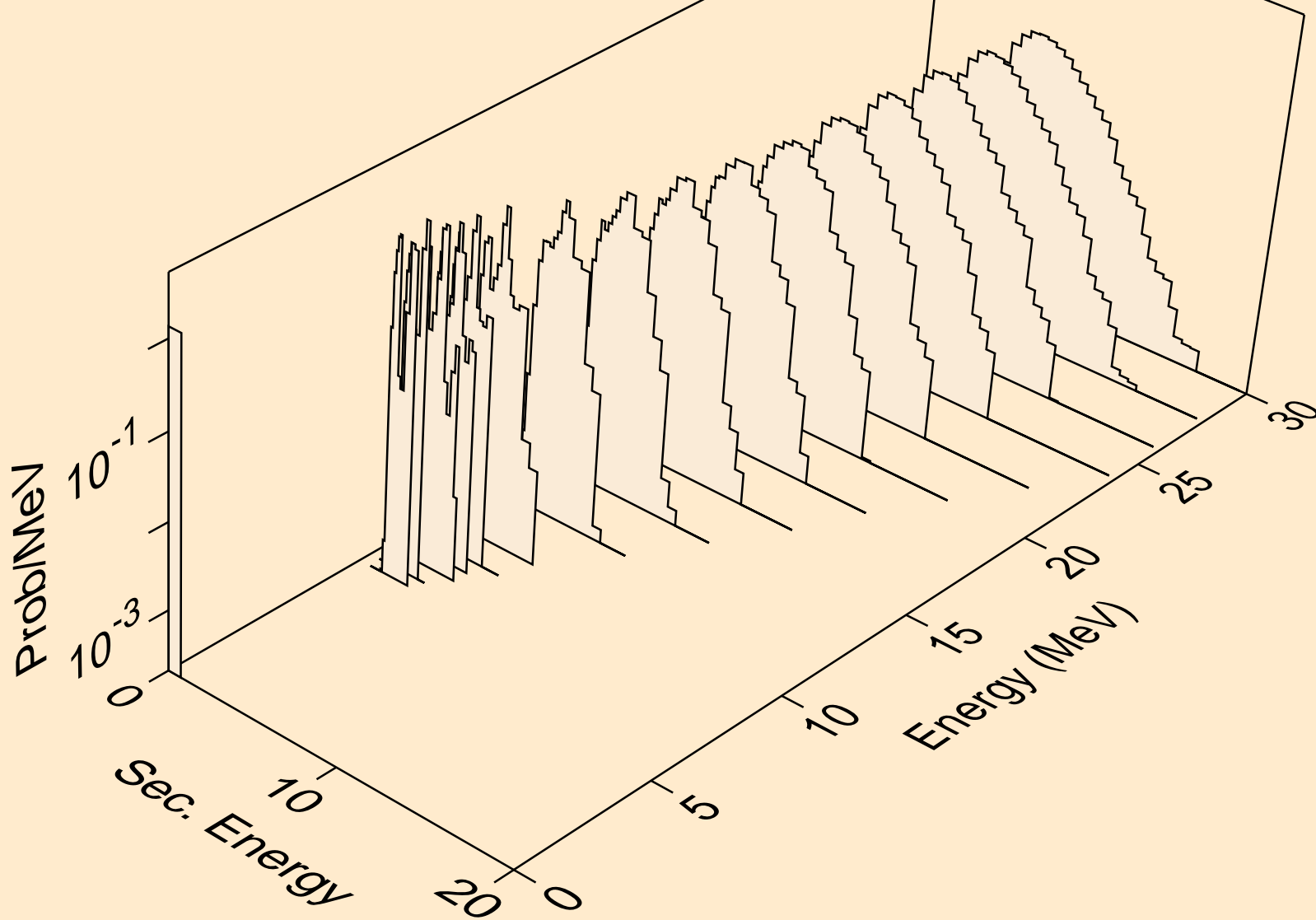
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protons from (n,3np)



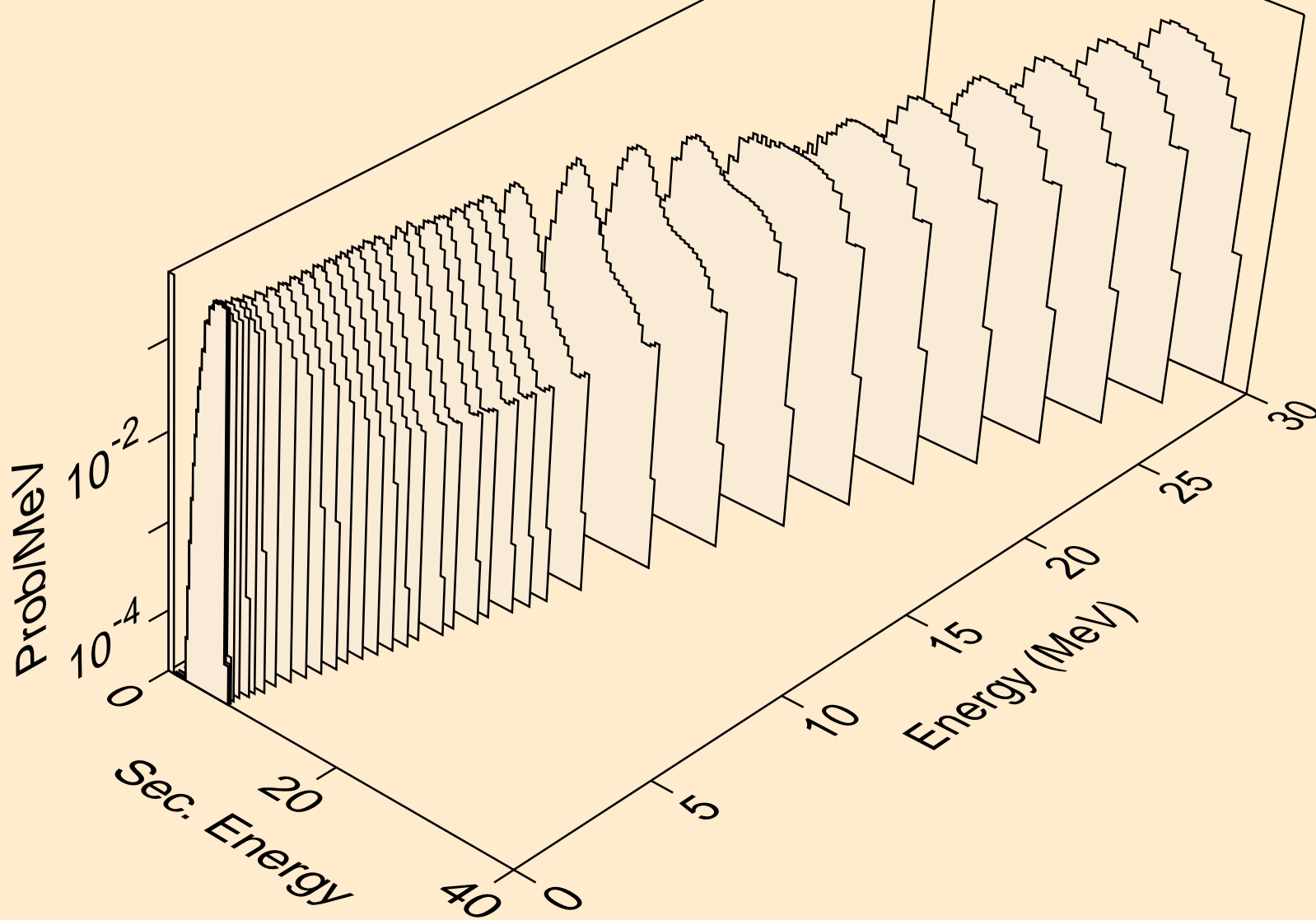
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protons from (n,2np)



HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,npa)

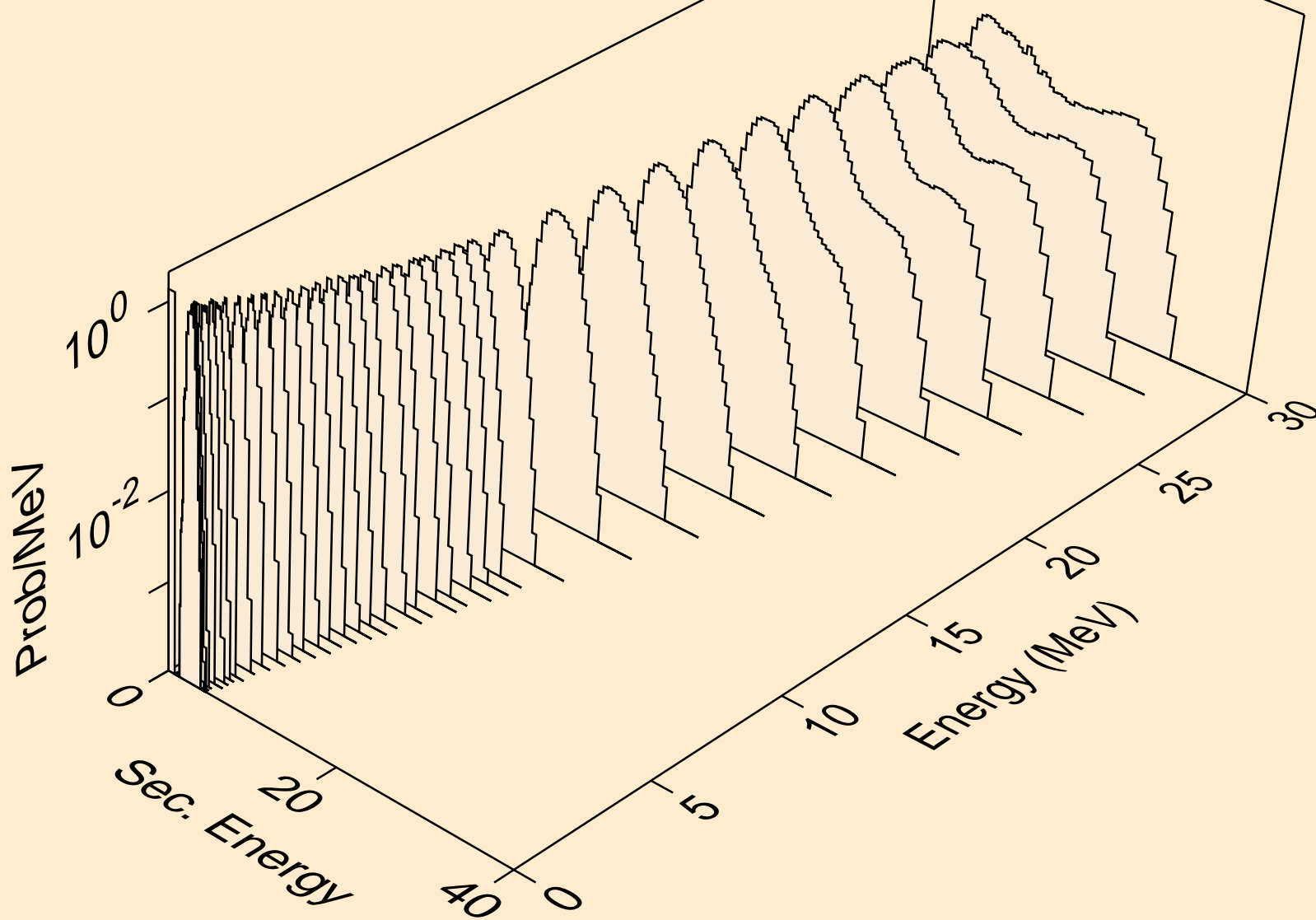


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protons from (n,p)

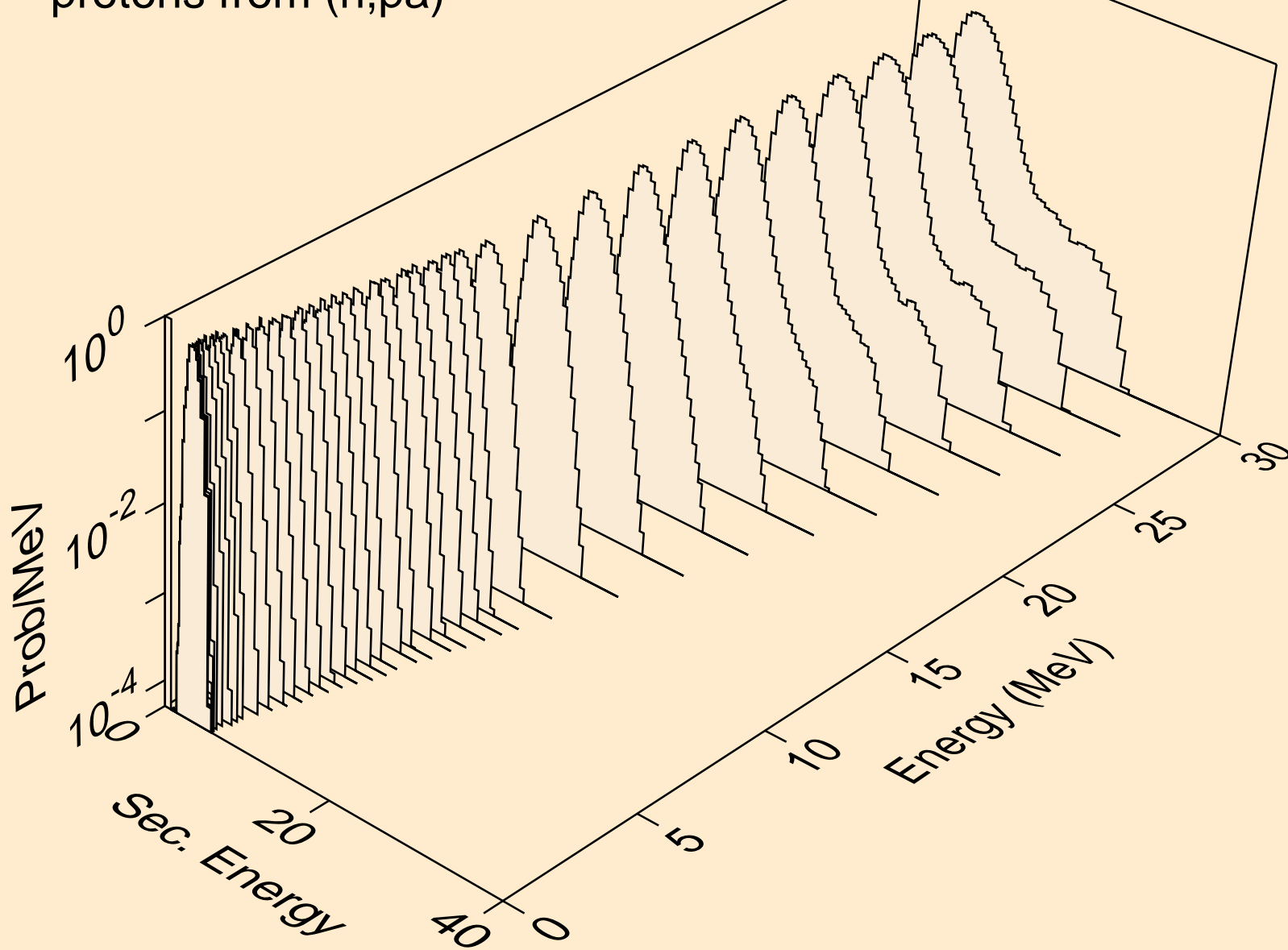




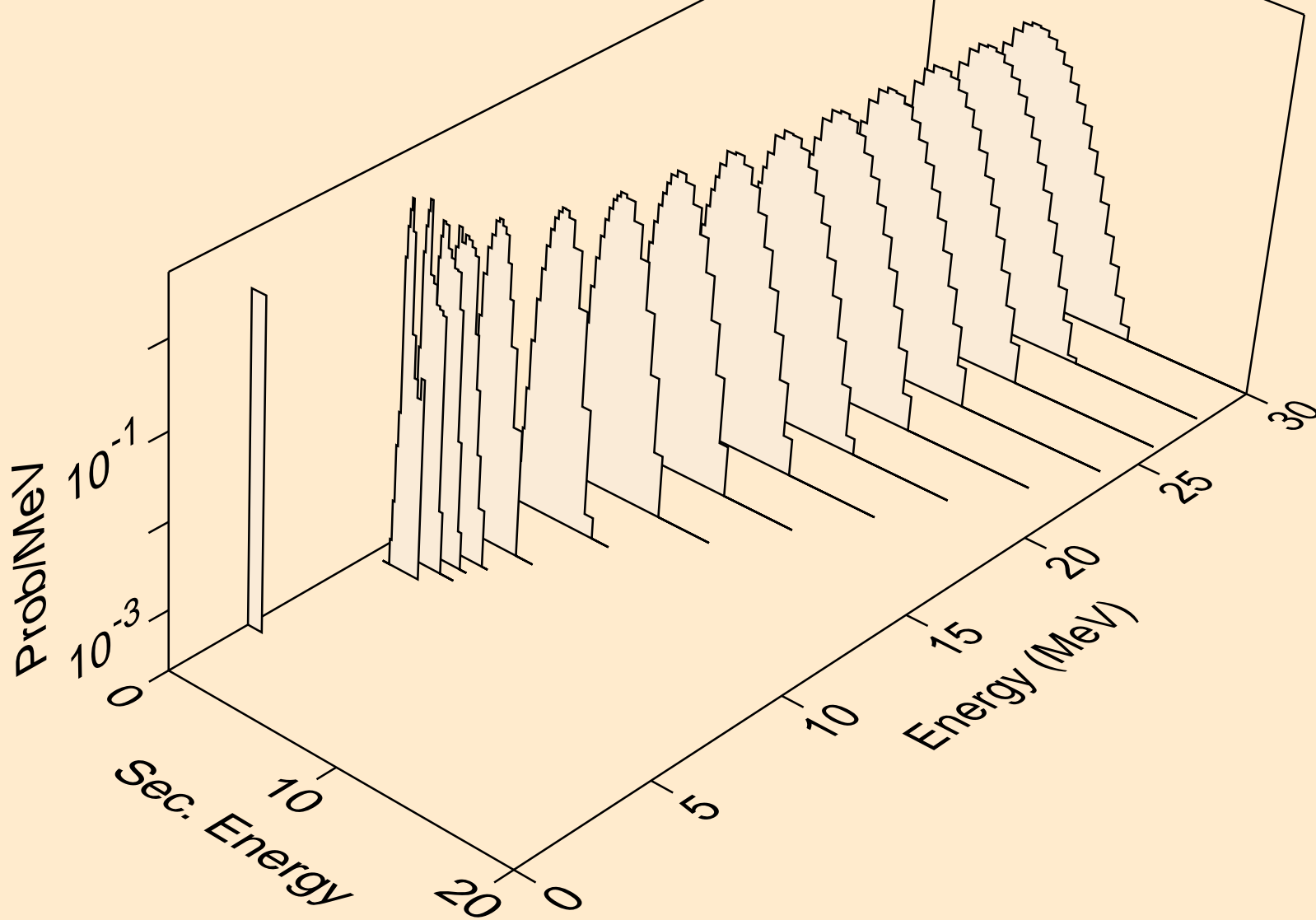
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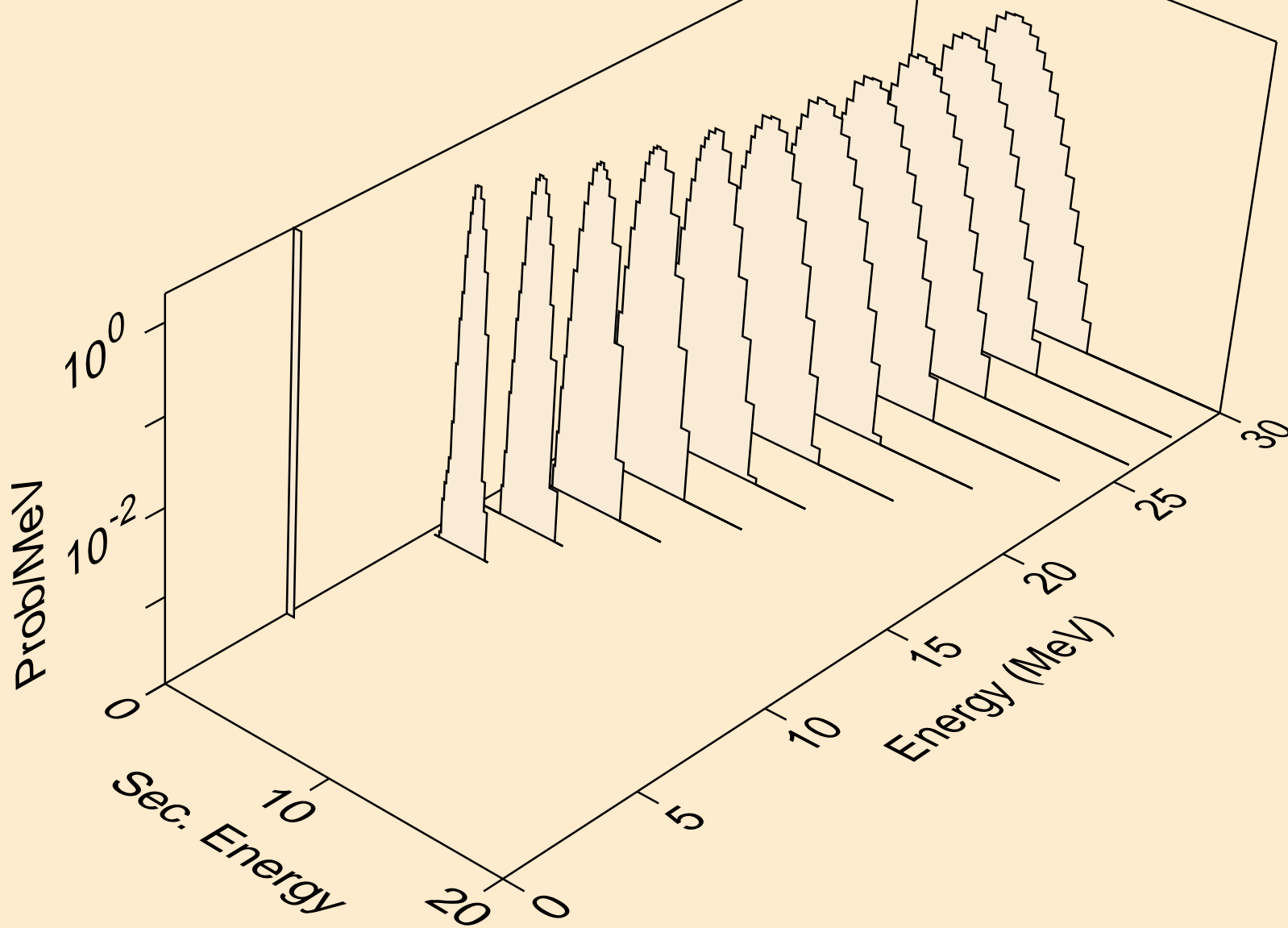
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protons from (n,p)



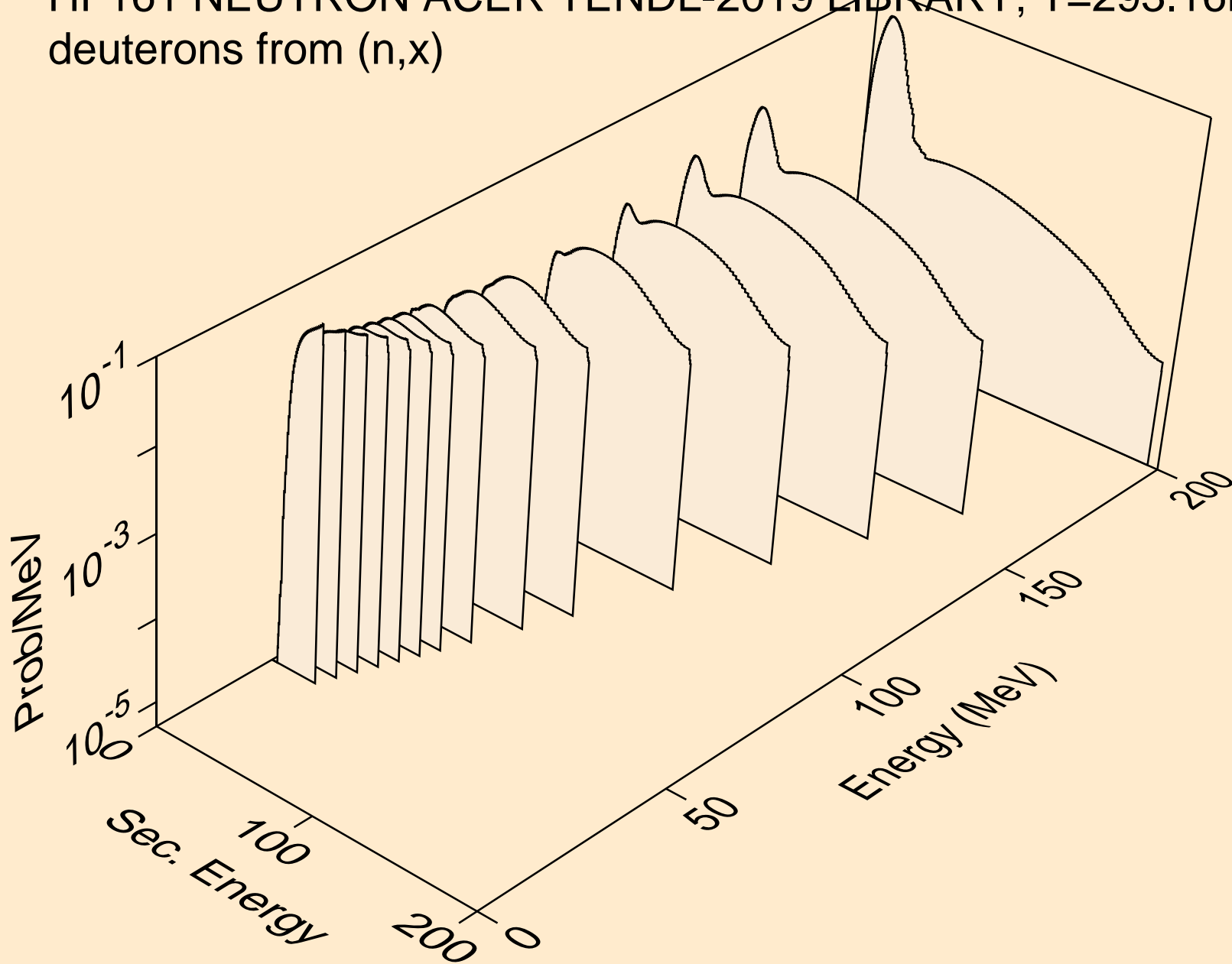
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protons from (n,pd)



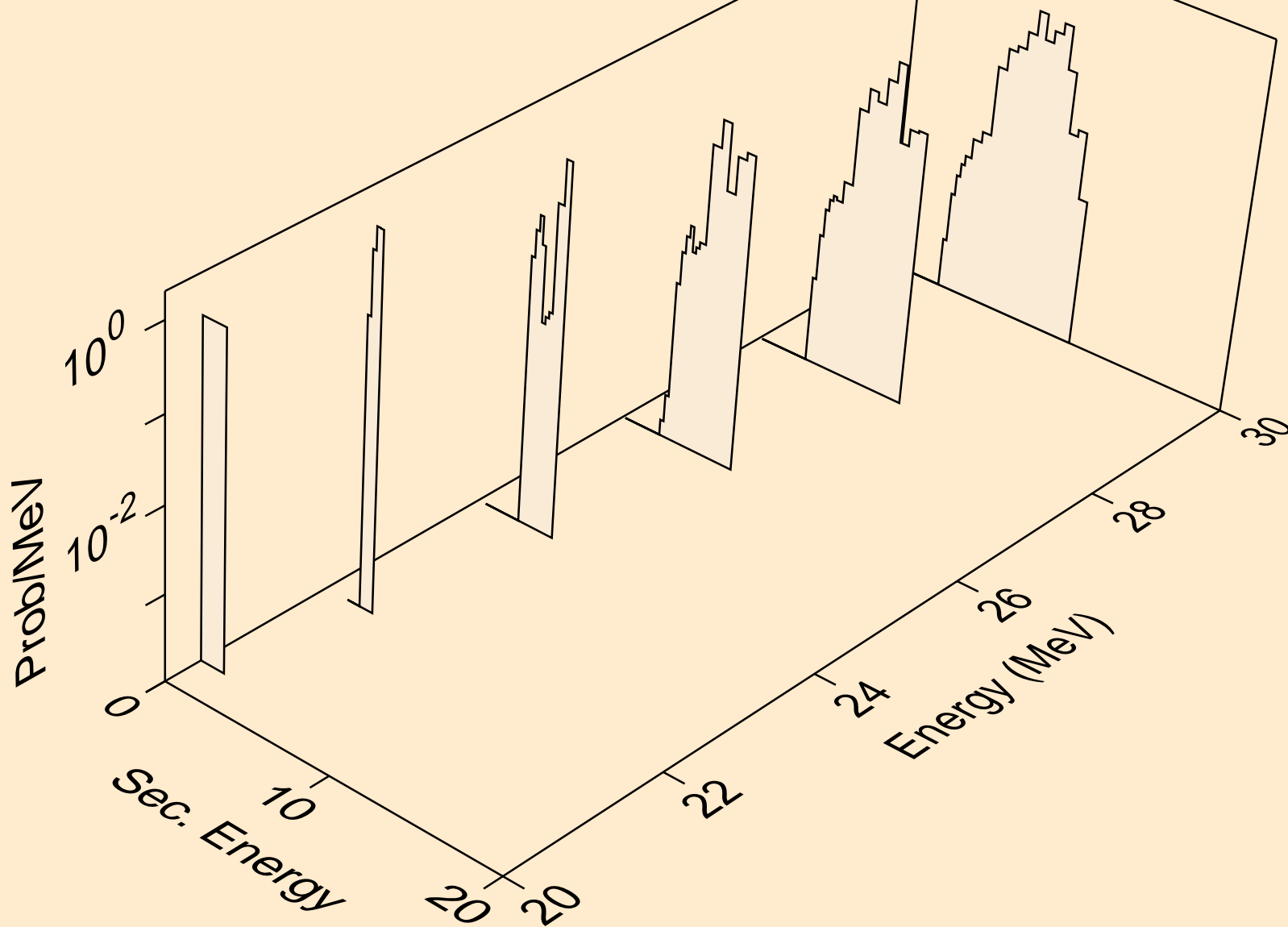
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protons from (n,pt)



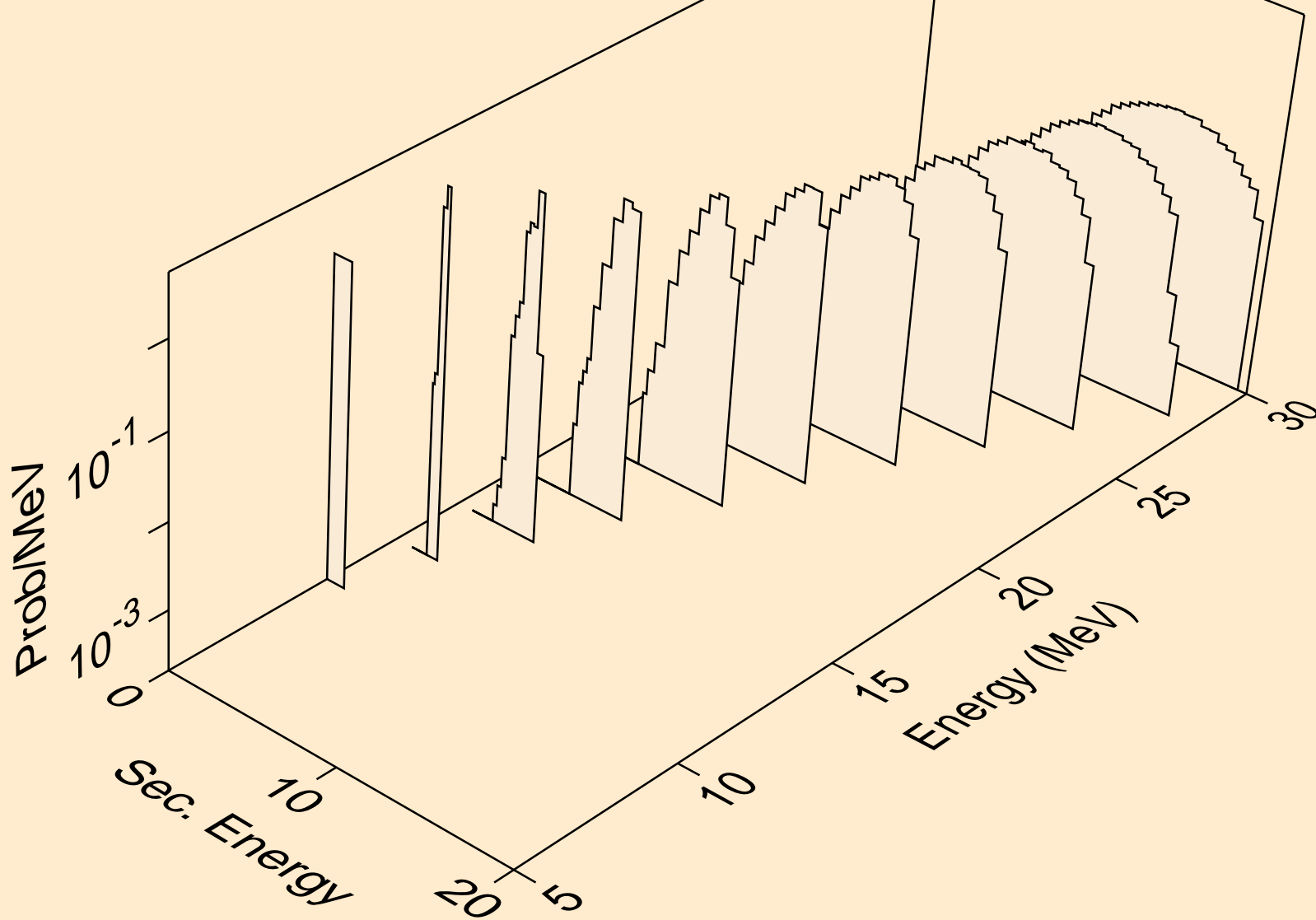
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deuterons from (n,x)



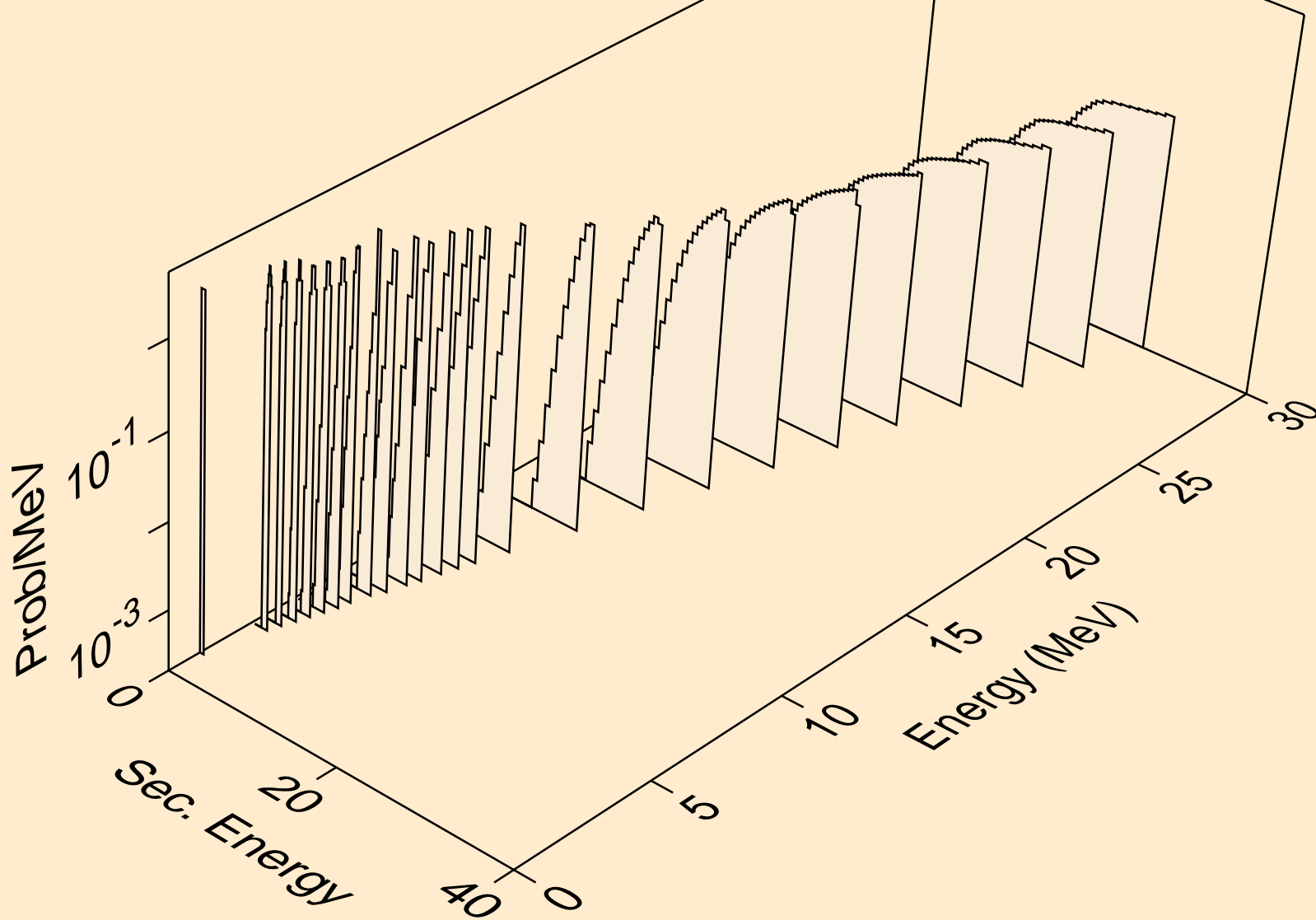
HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,2nd)



HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,n\*)d

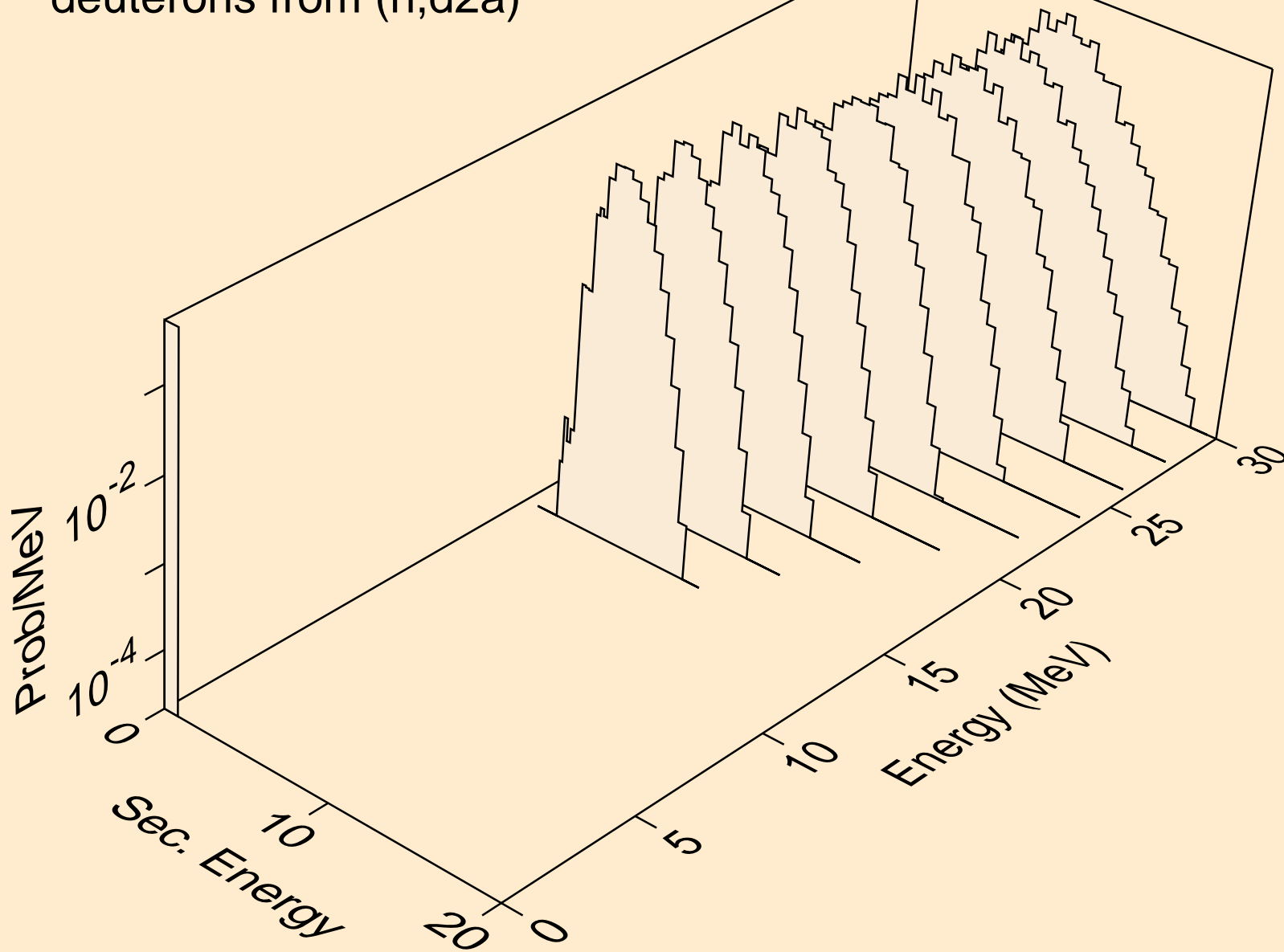


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deuterons from (n,d)

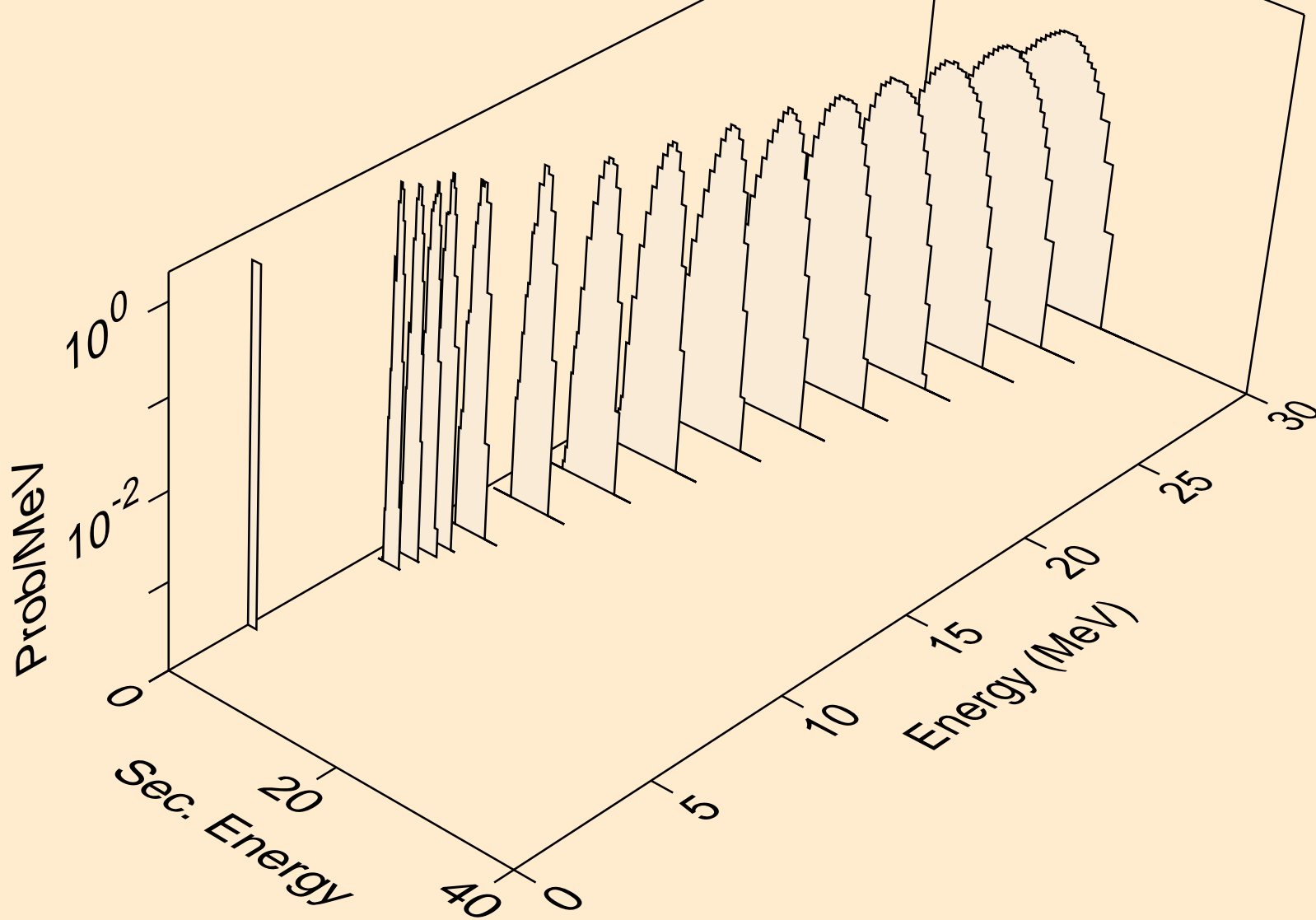




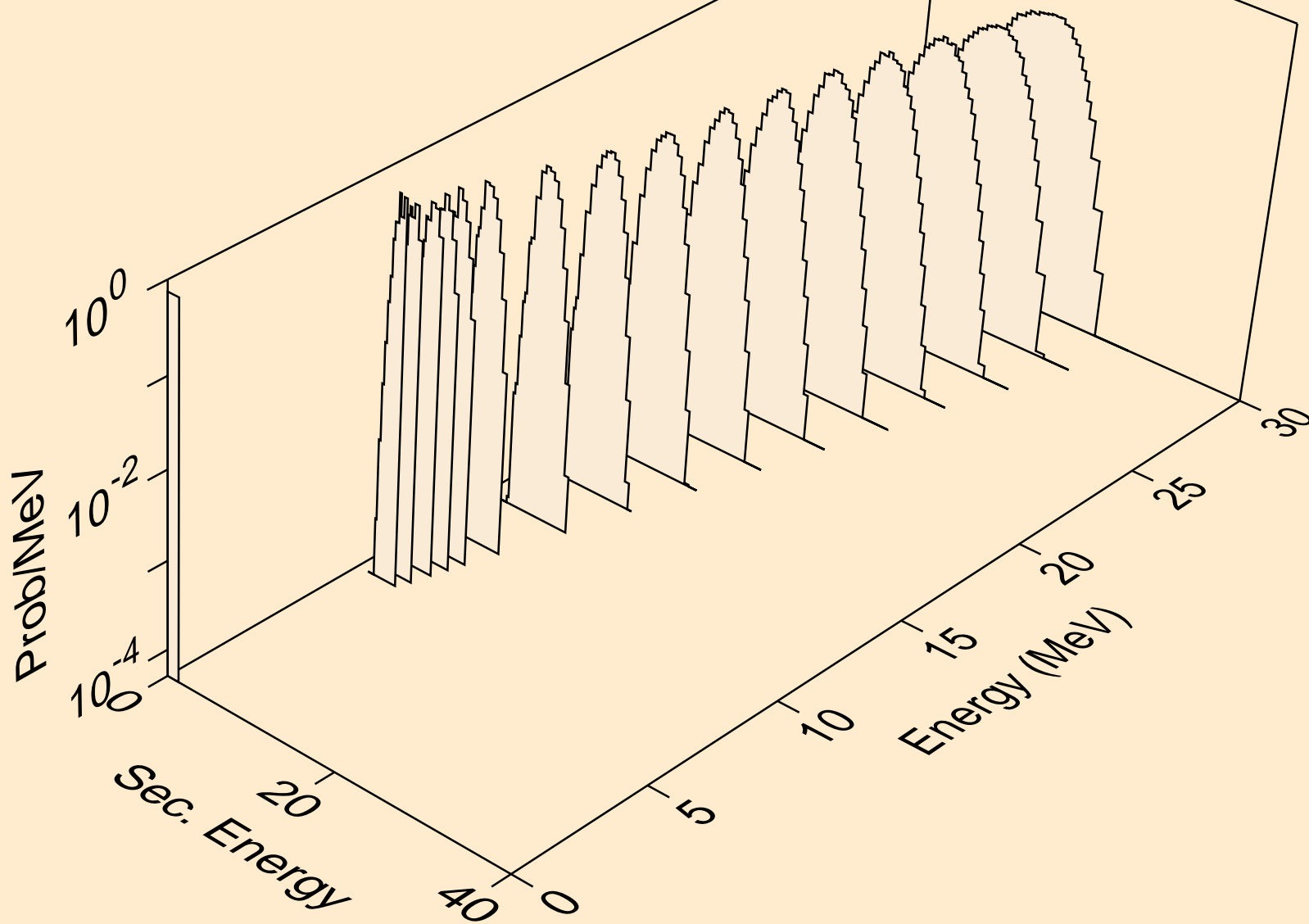
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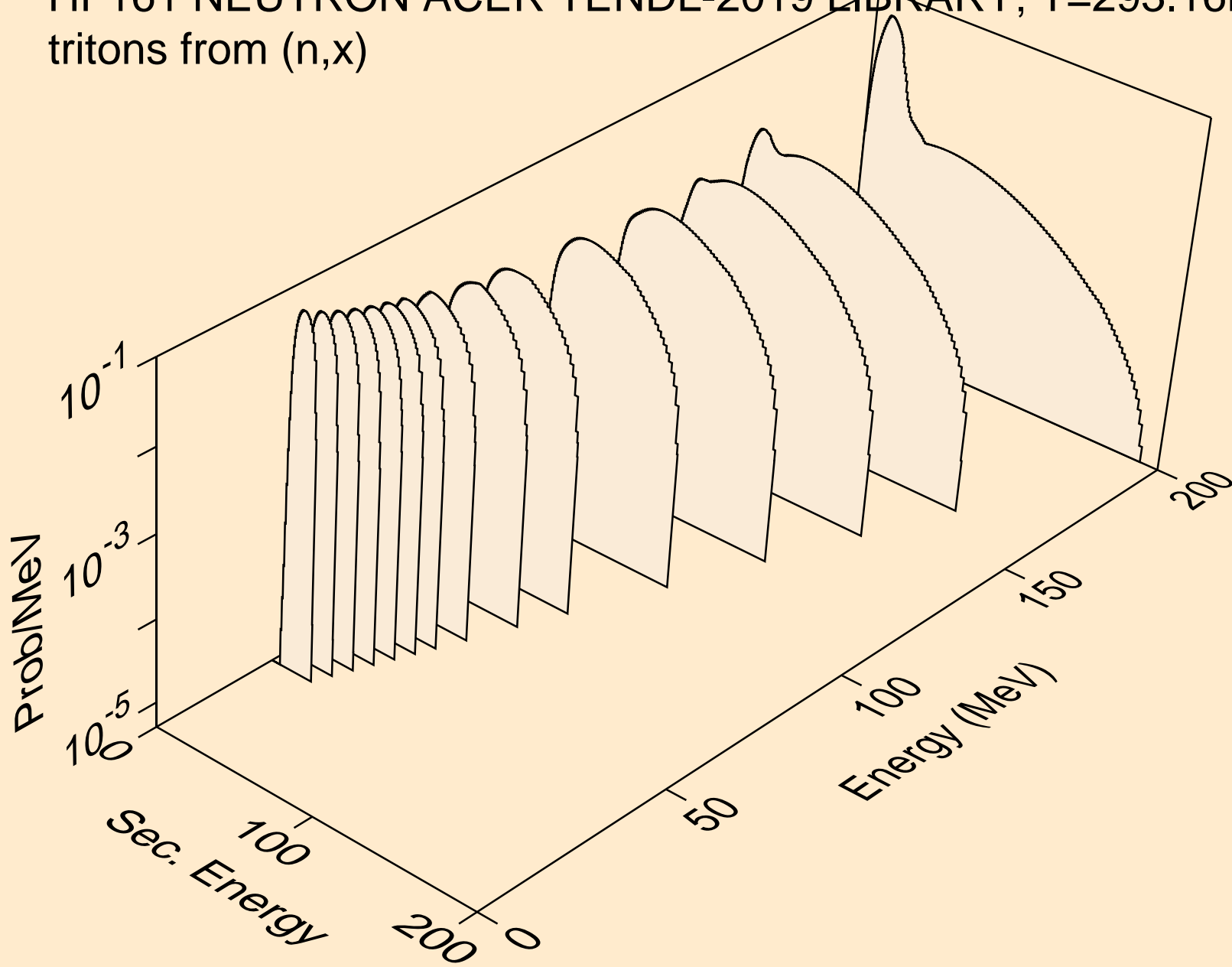
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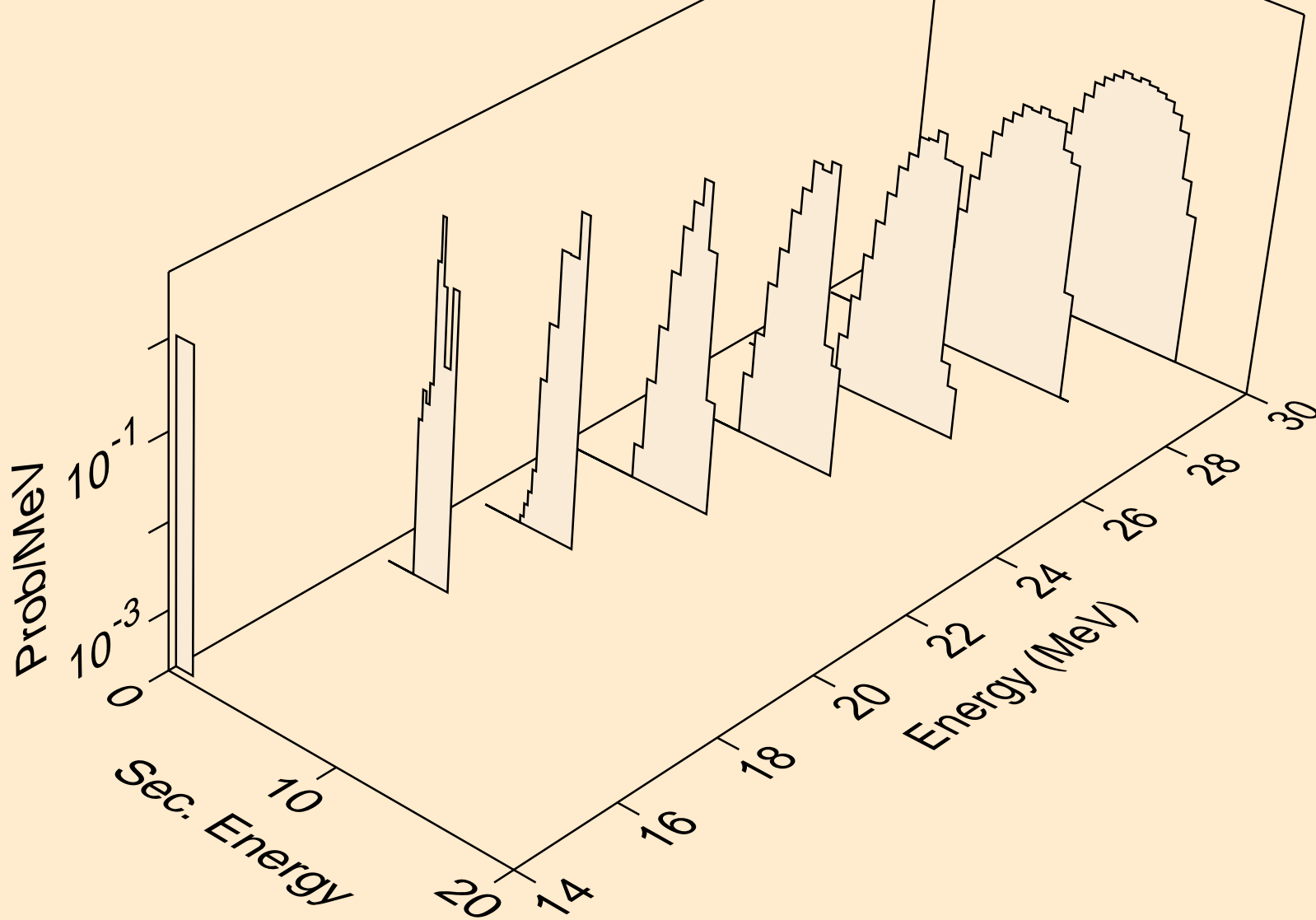
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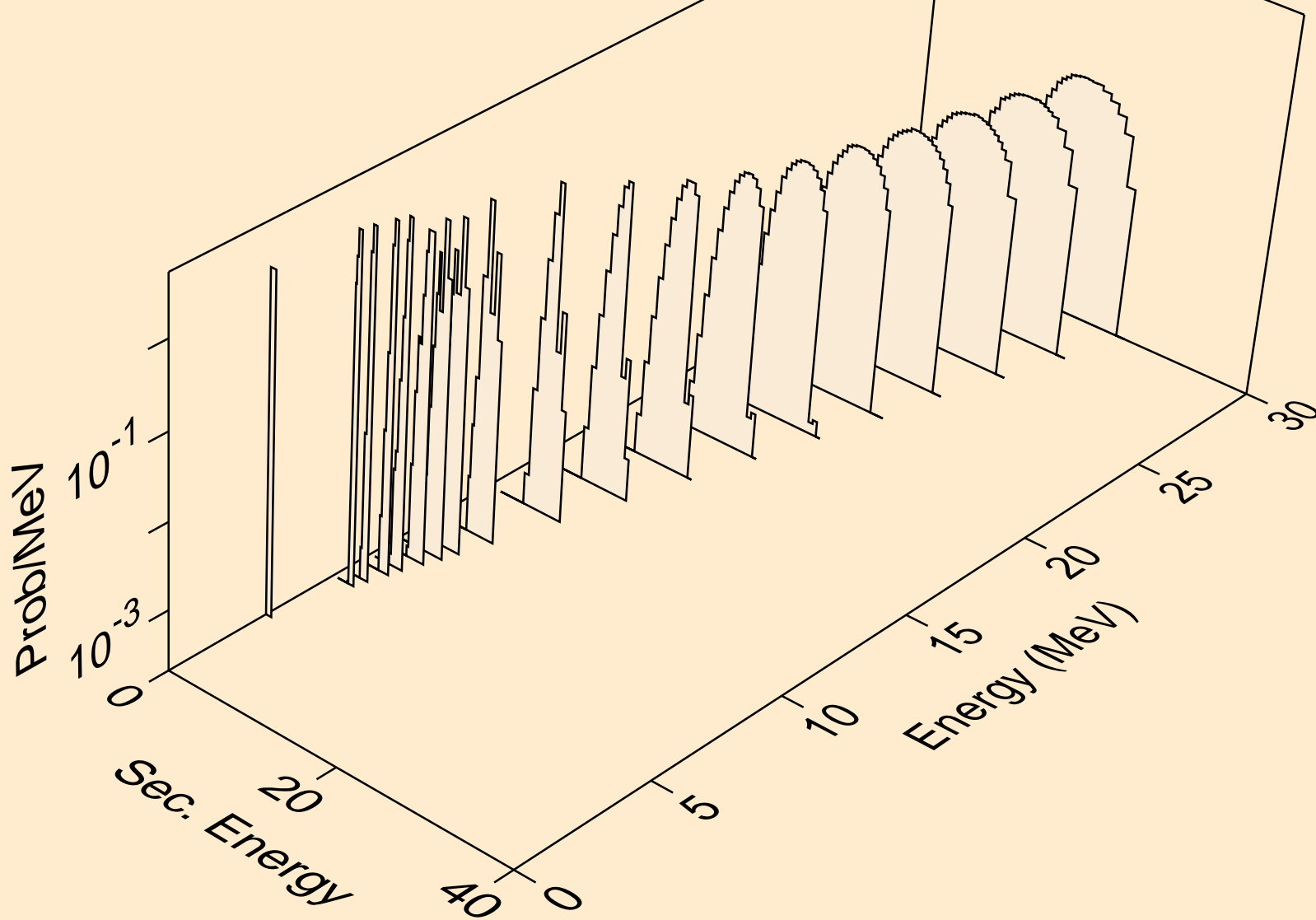
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tritons from (n,x)



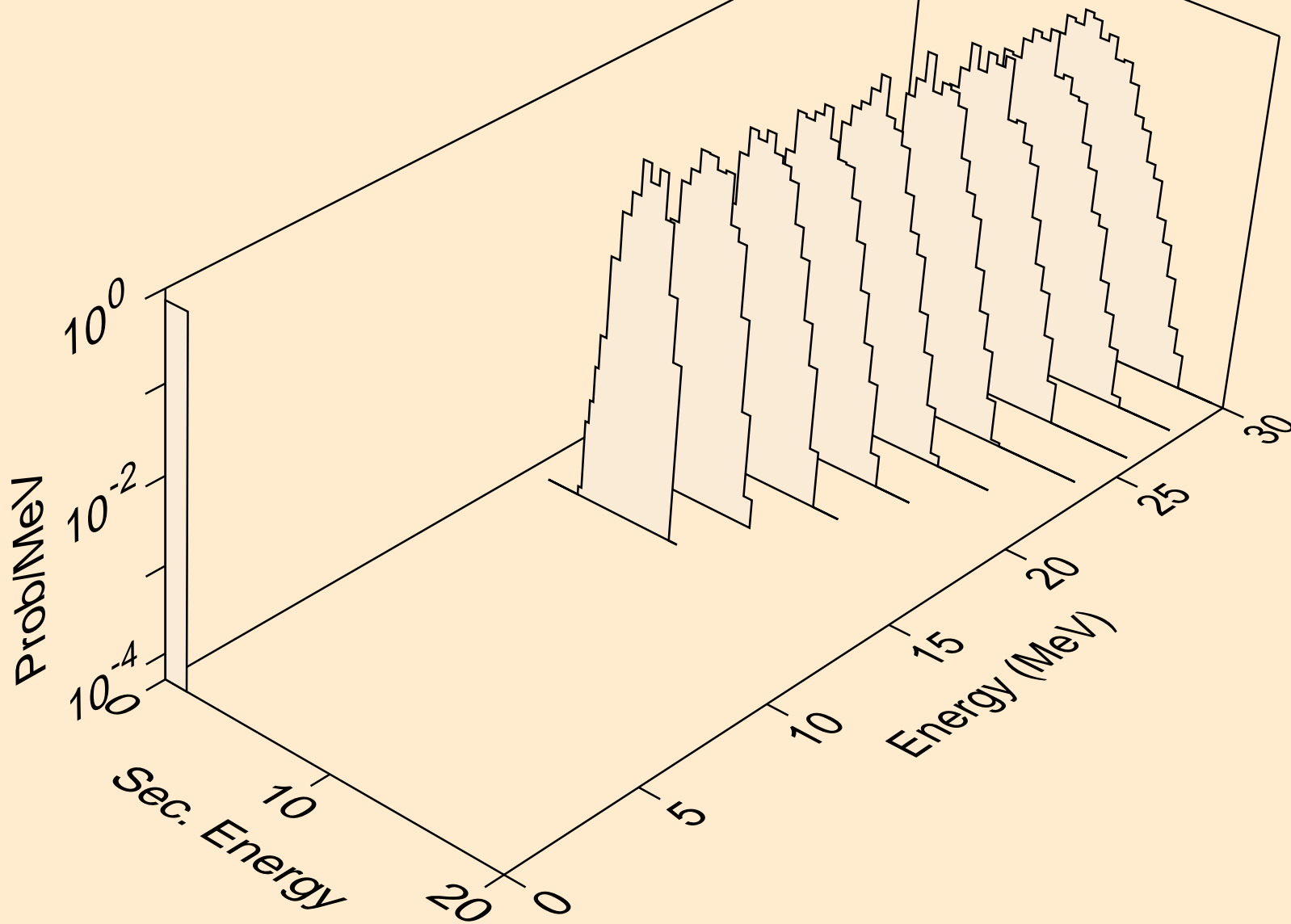
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tritons from (n,n\*)t



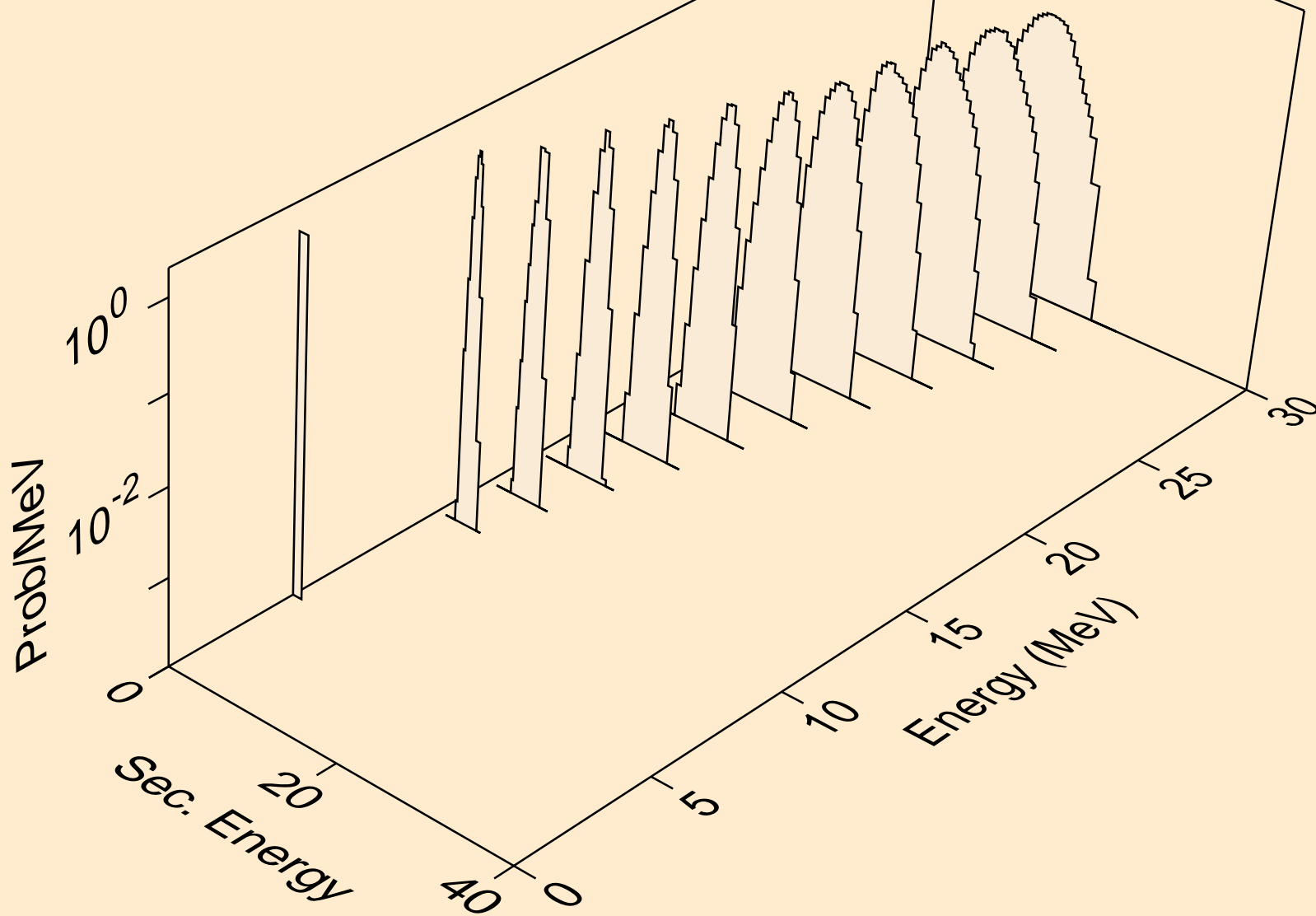
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HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
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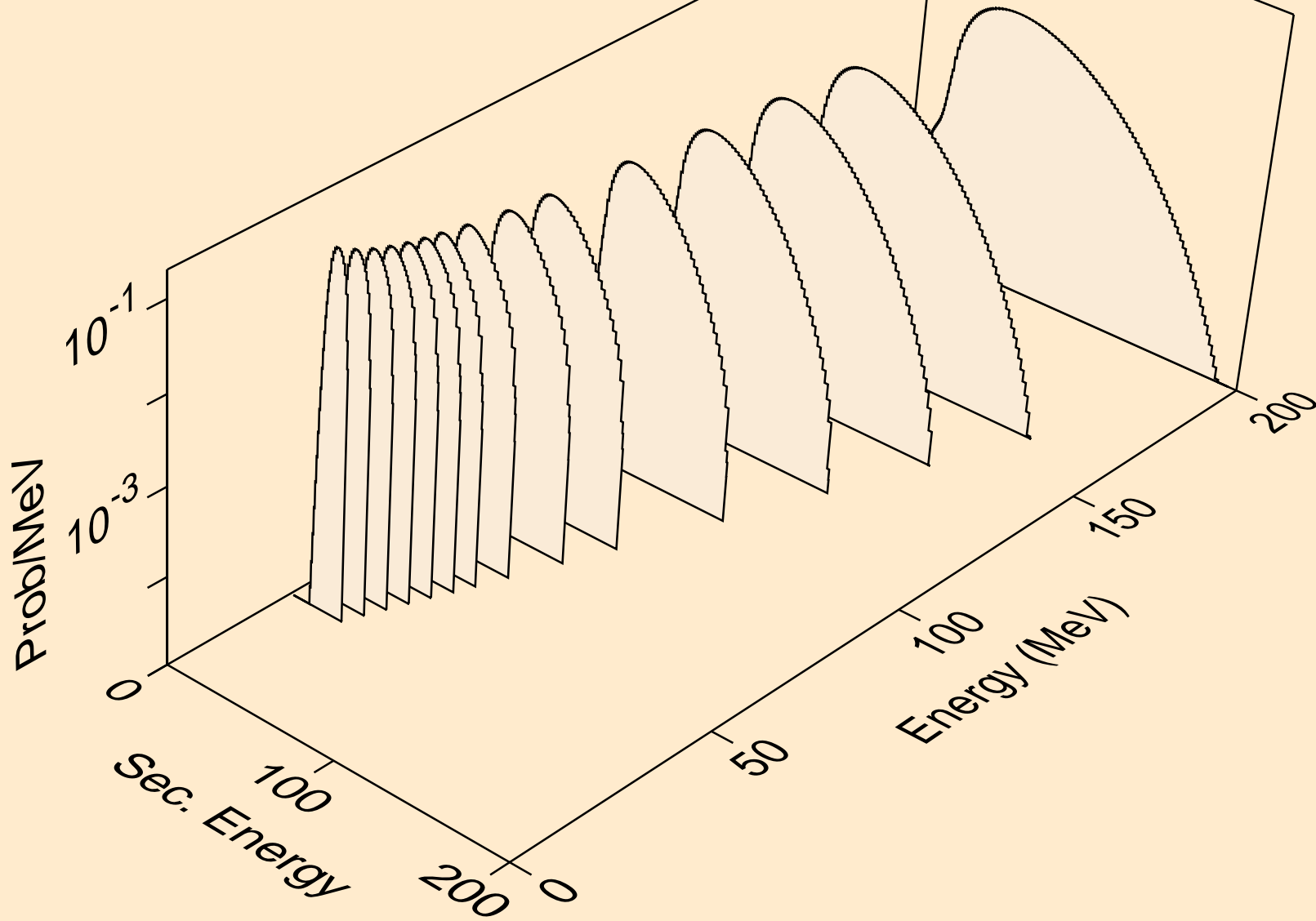


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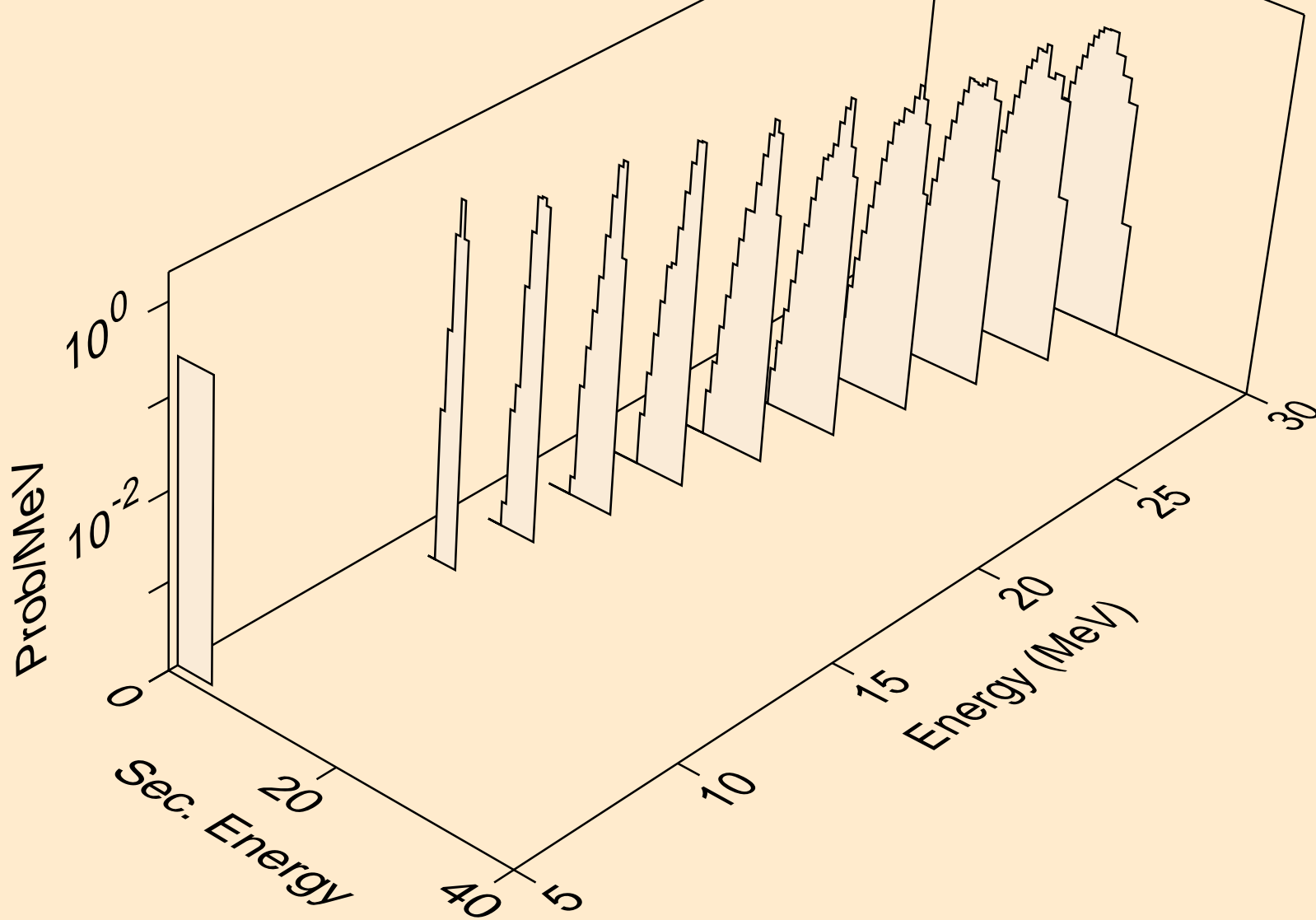




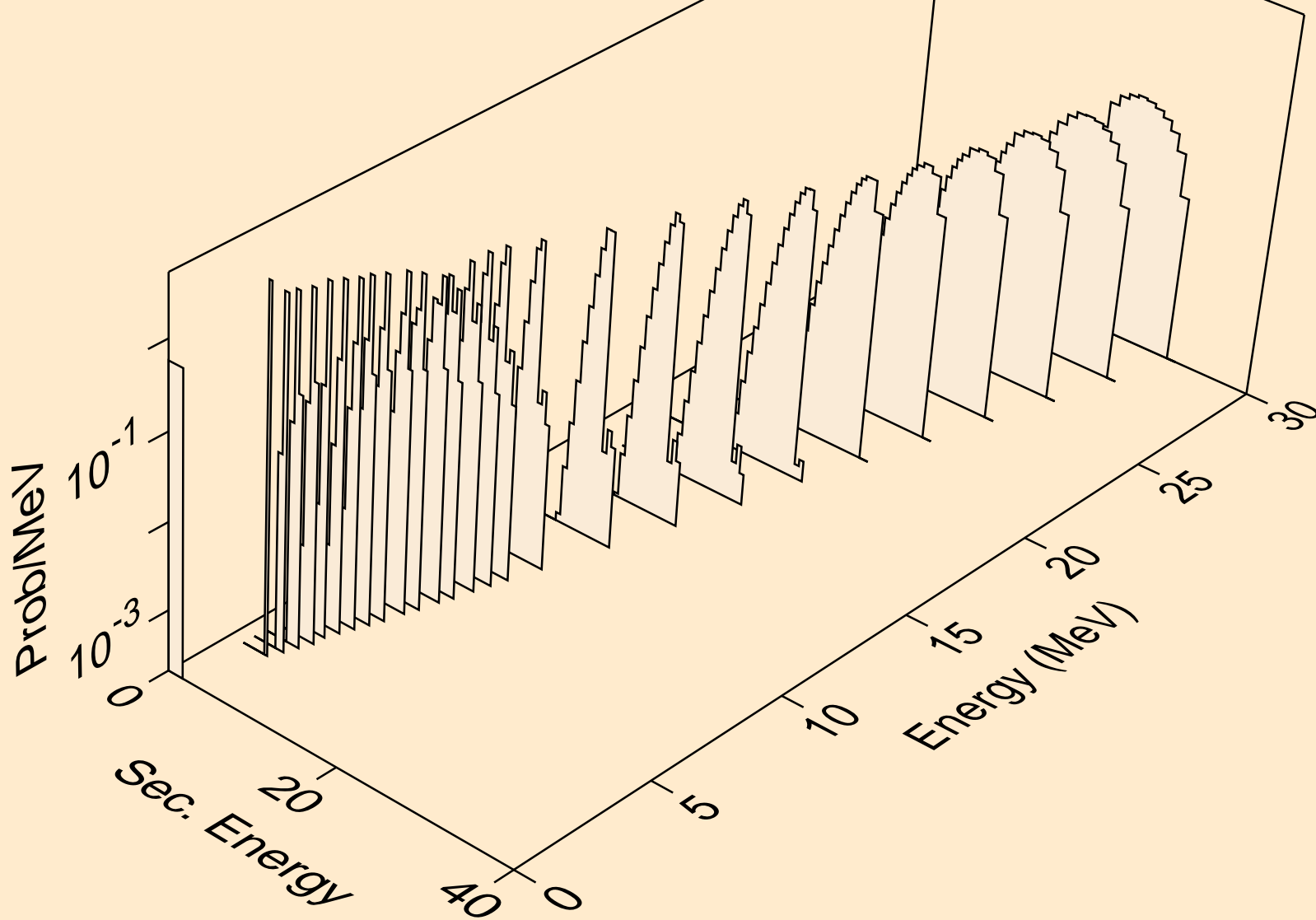
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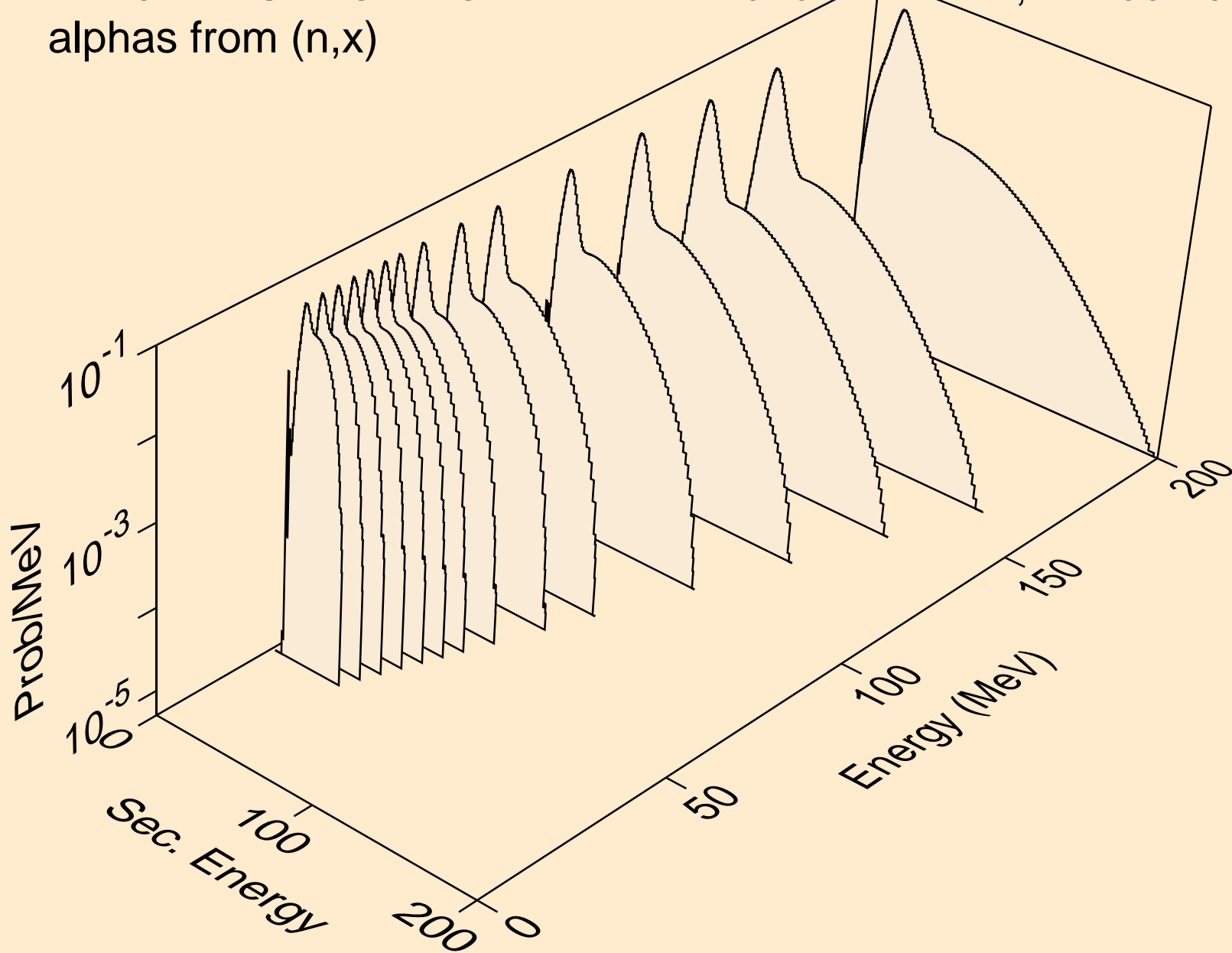
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he3s from (n,n\*)he3



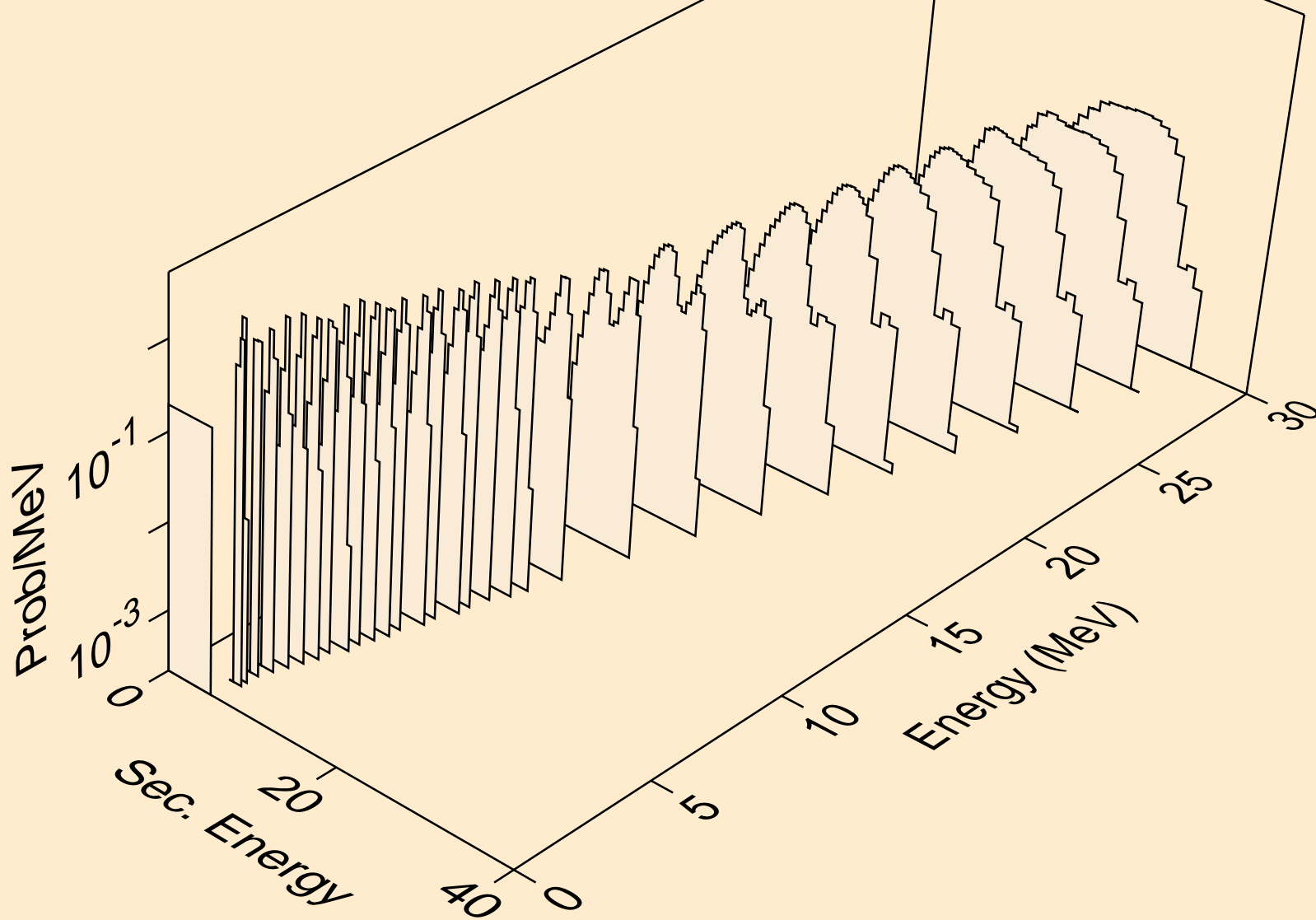
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he3s from (n,he3)



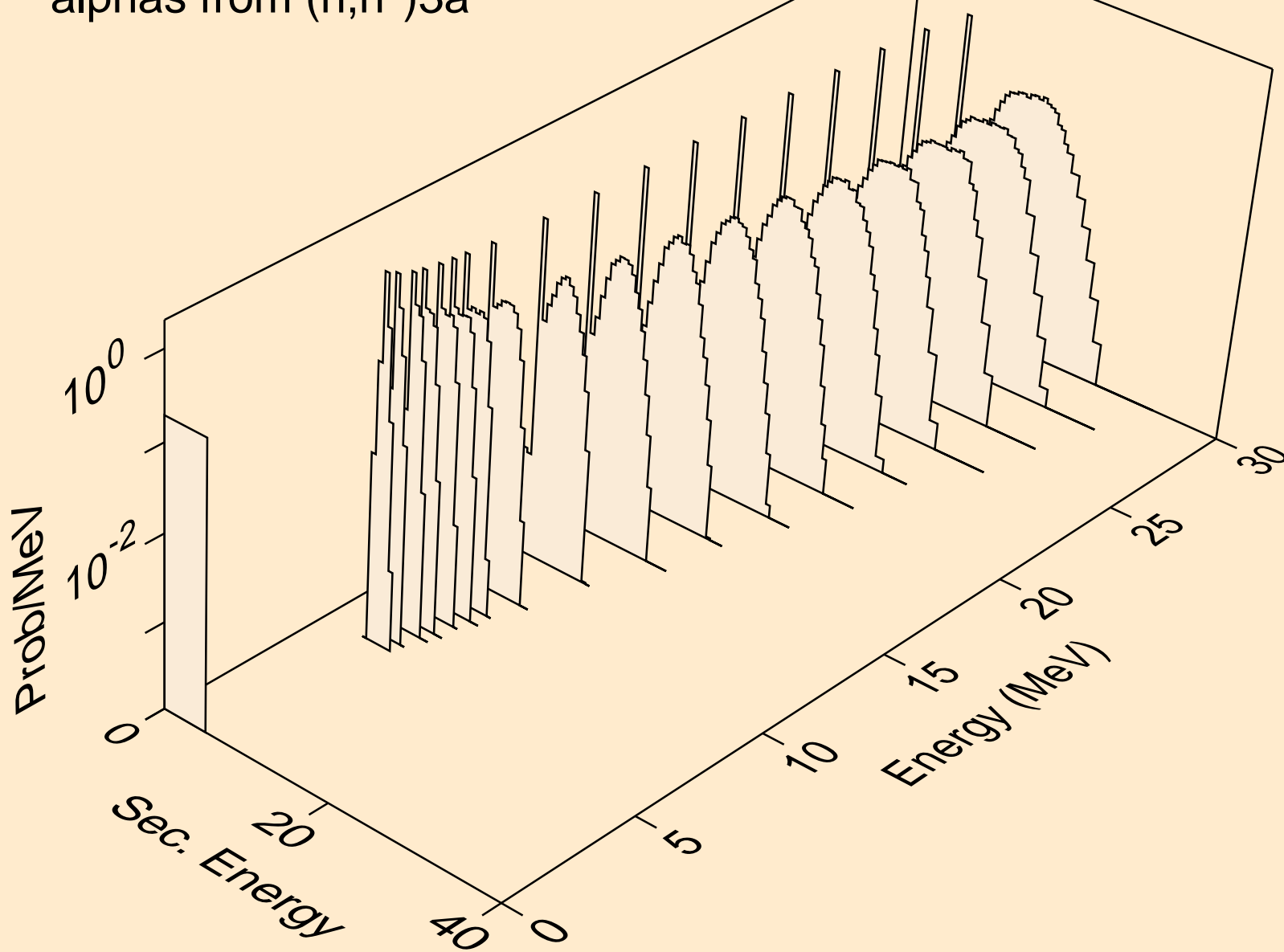
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alphas from (n,x)



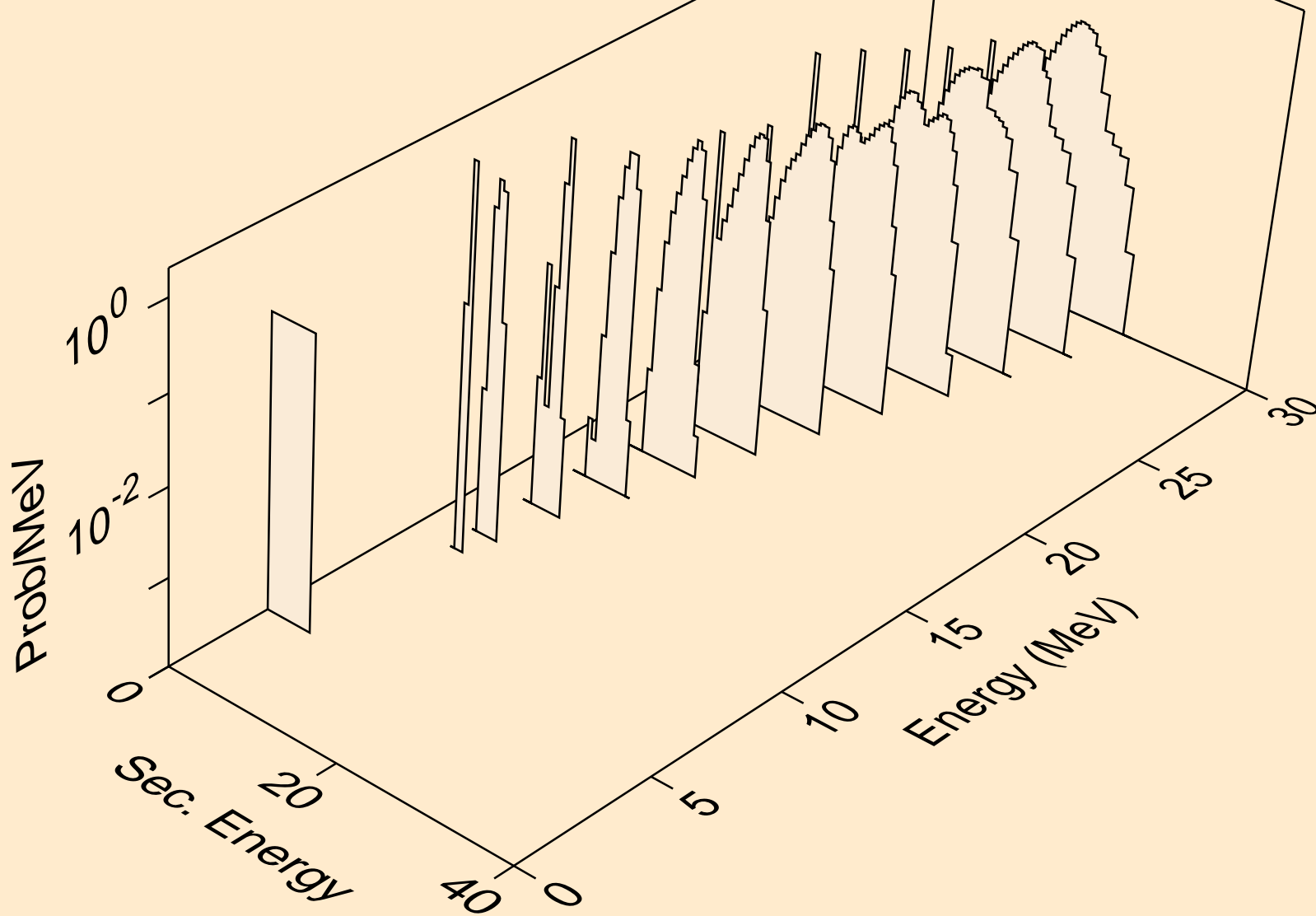
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alphas from (n,n\*)a



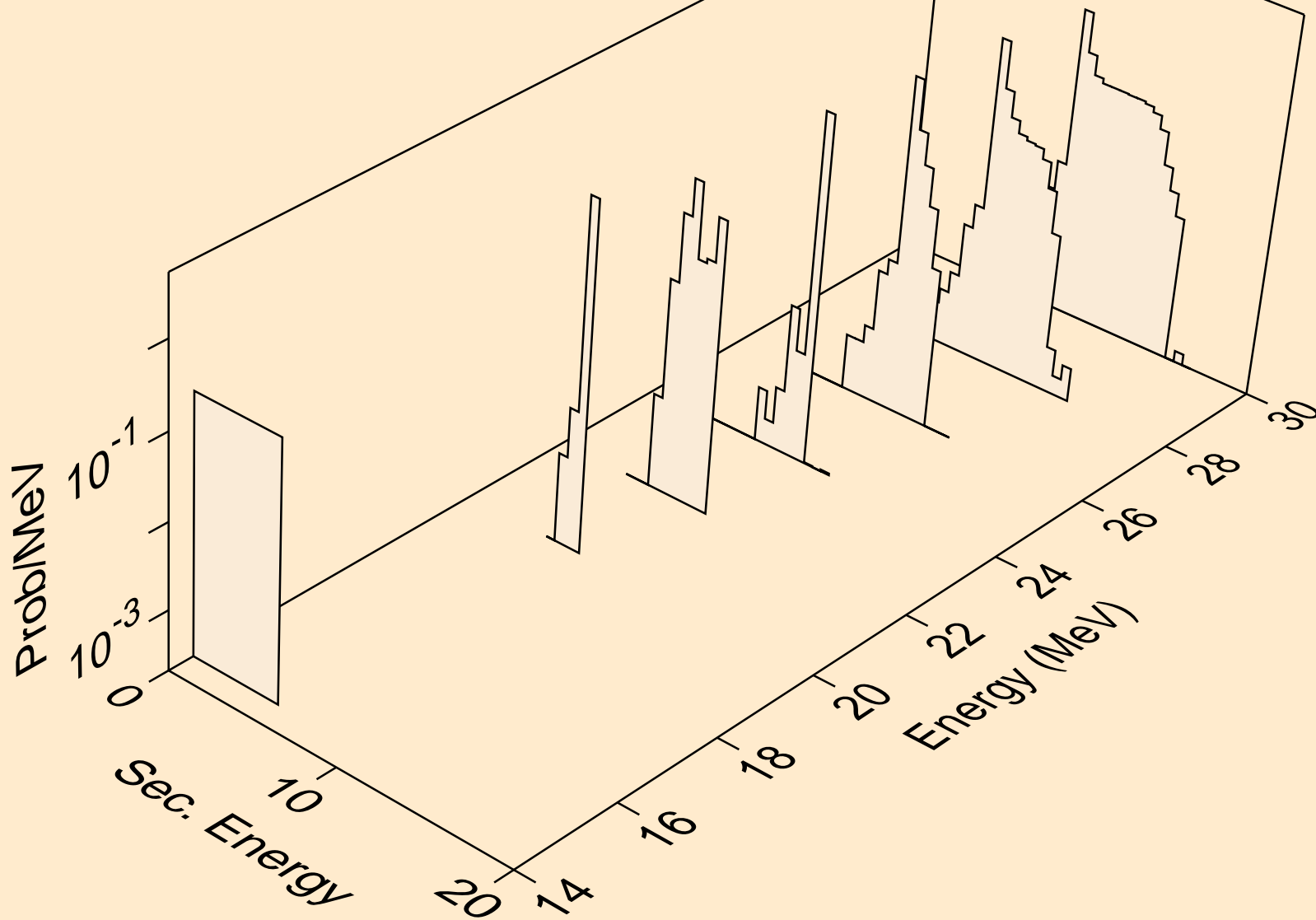
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alphas from (n,n\*)3a



HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,2n)a

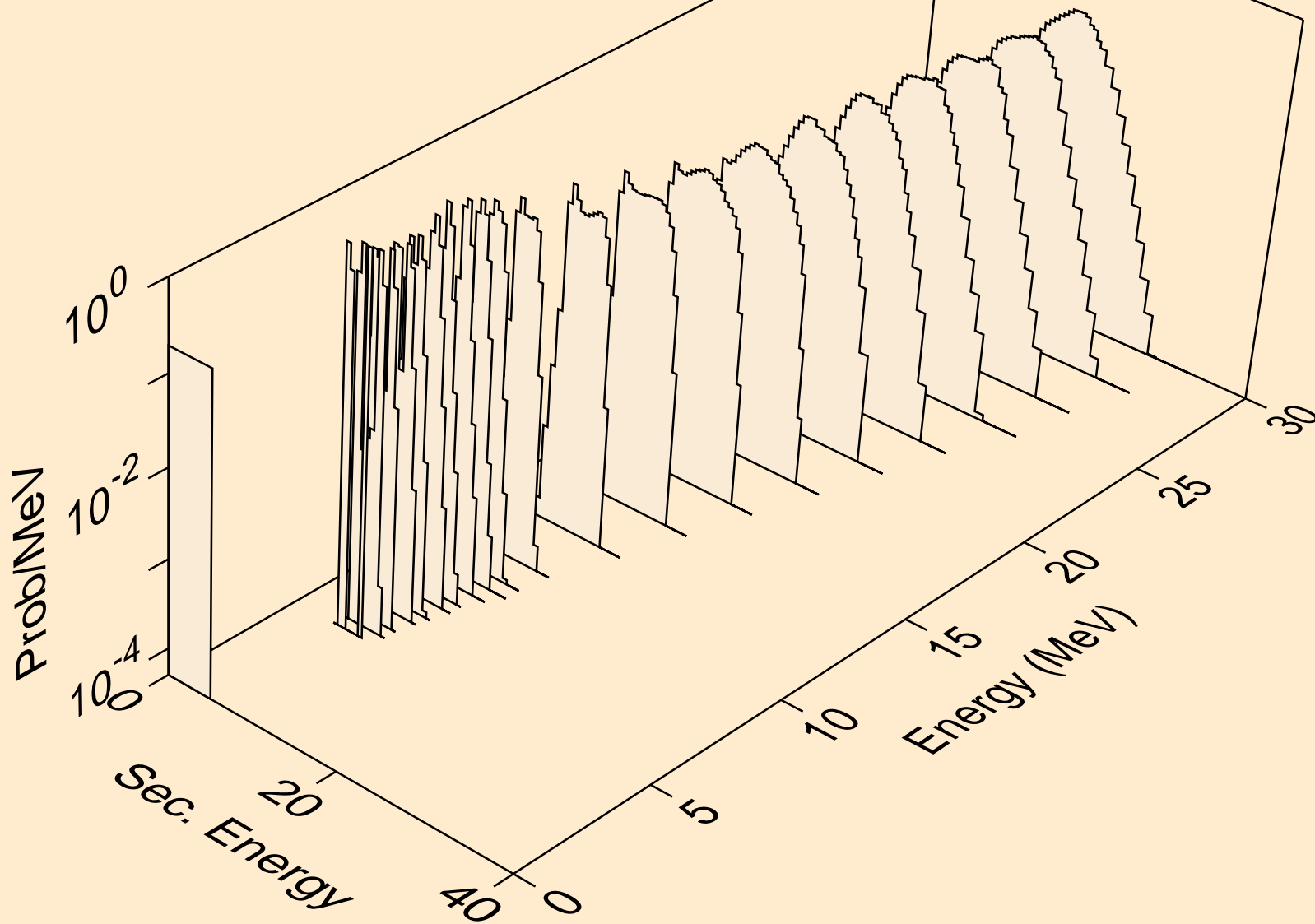


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alphas from (n,3n)a

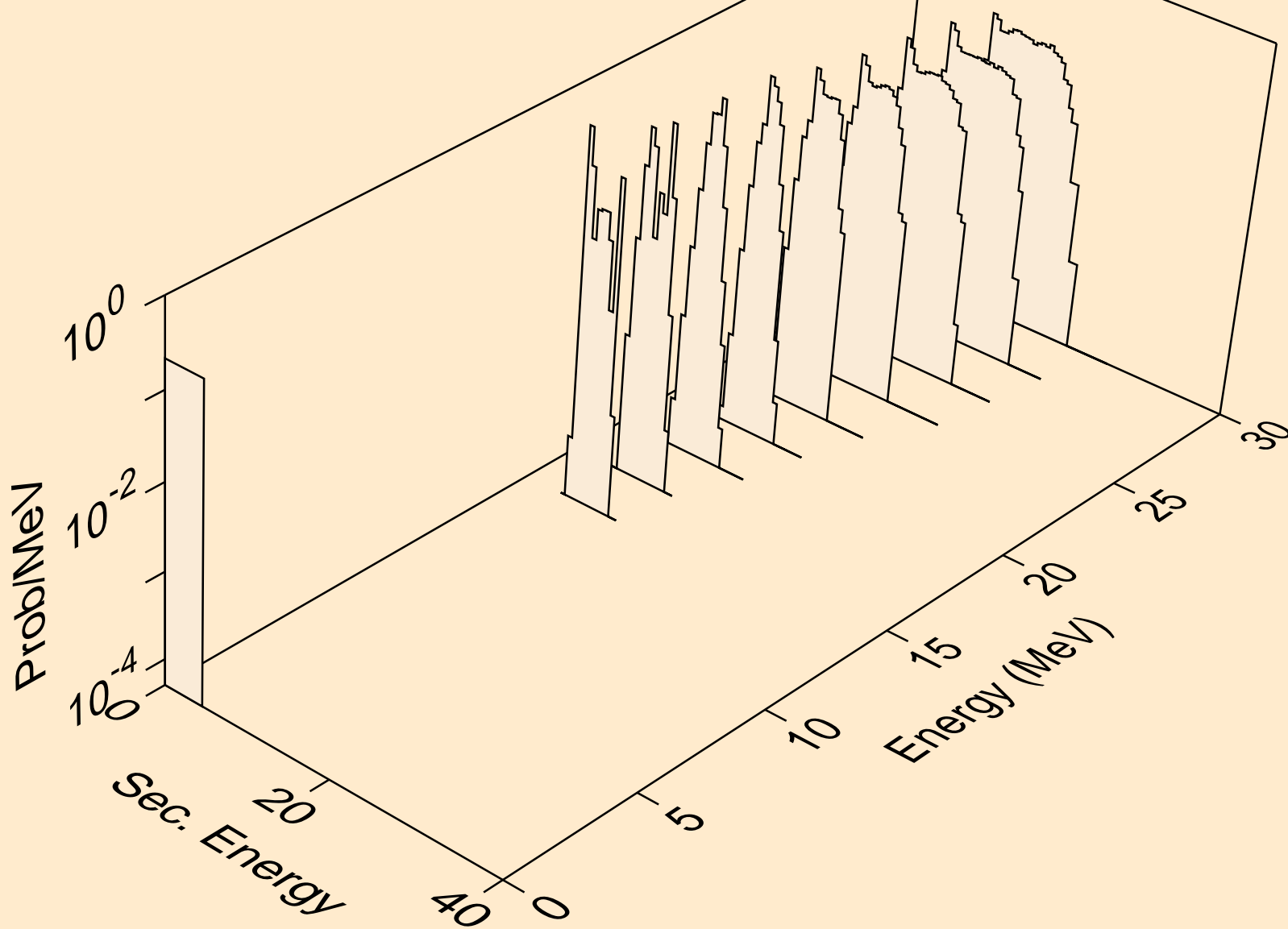




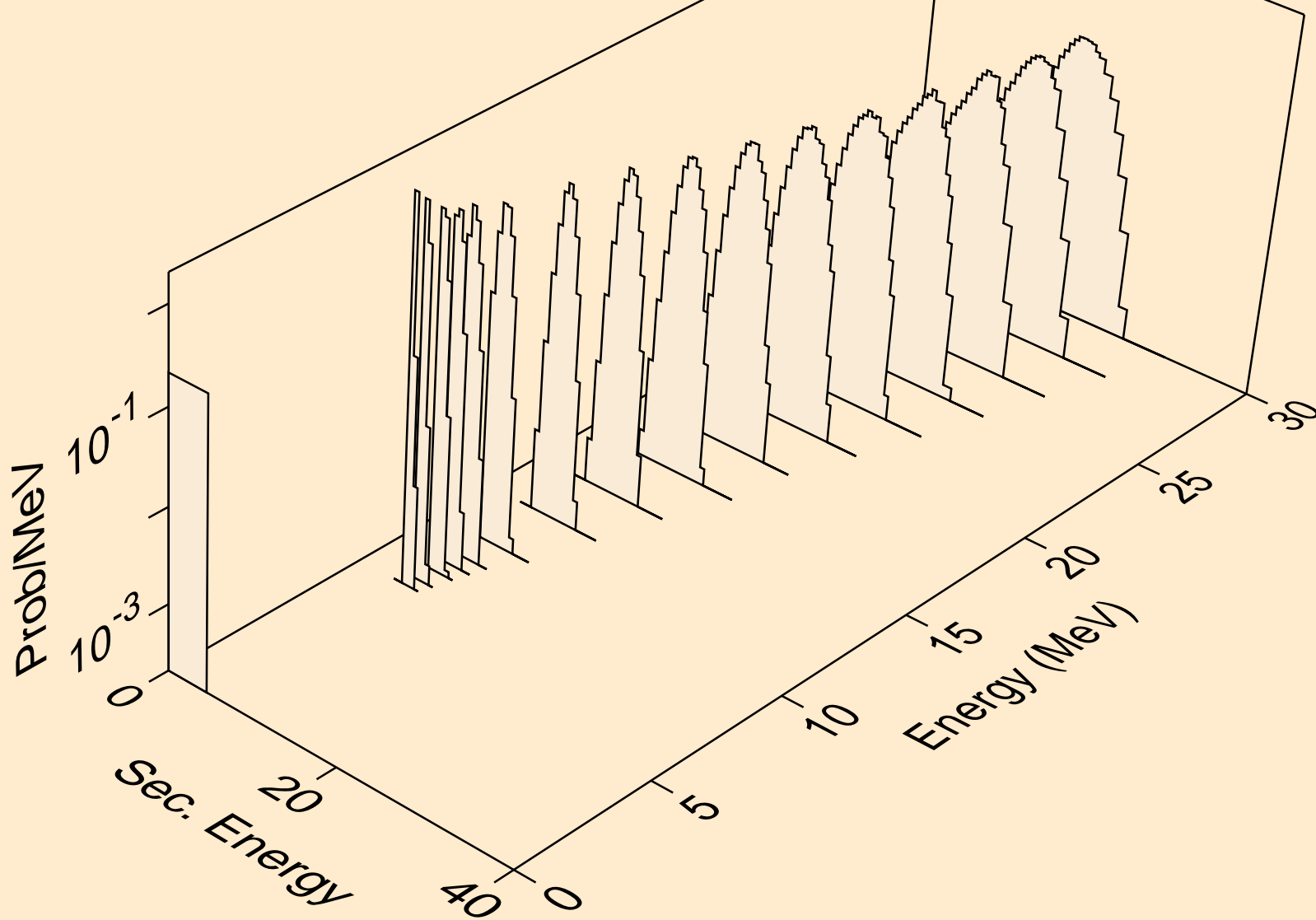
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alphas from (n,n\*)2a



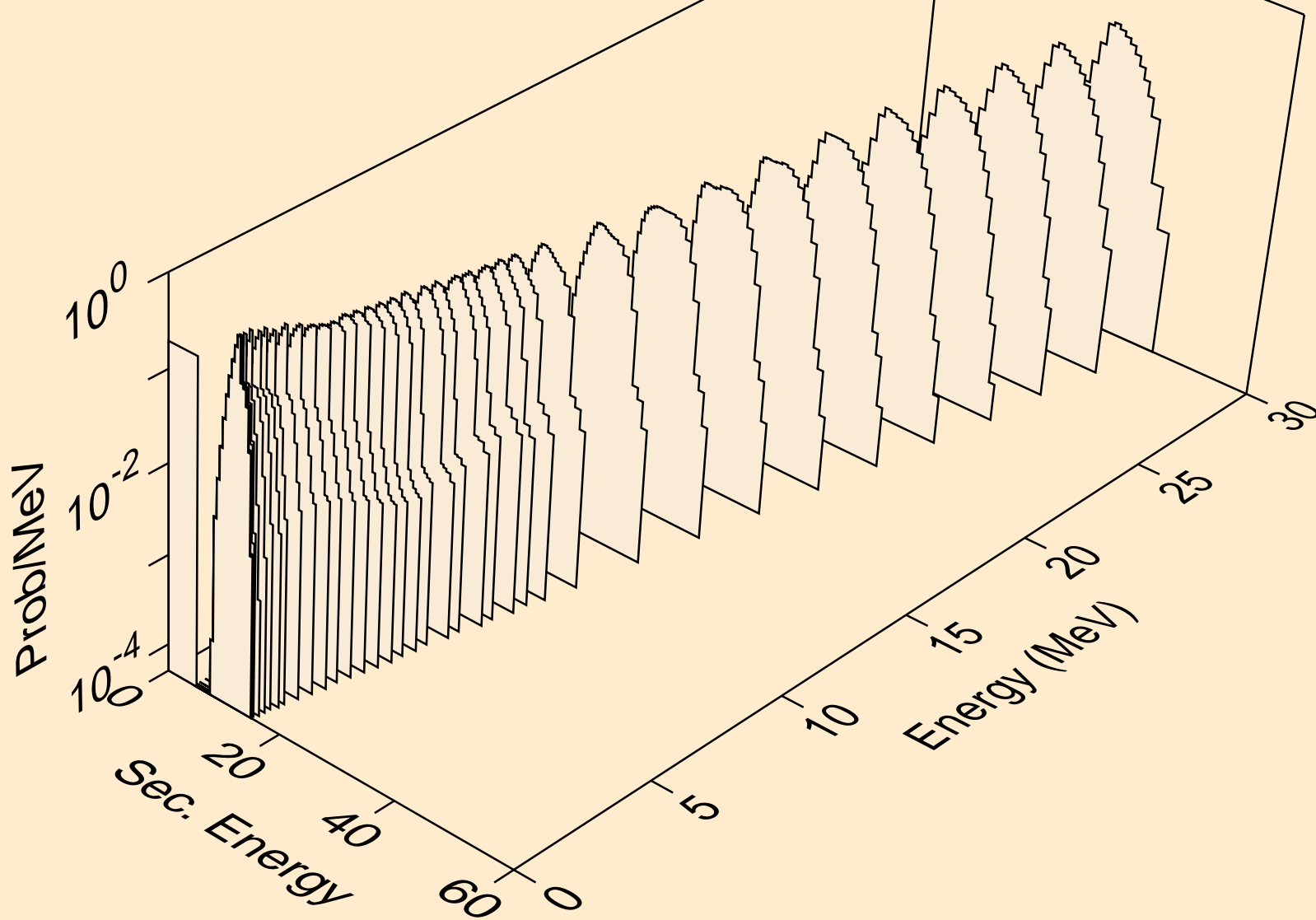
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alphas from (n,2n)2a



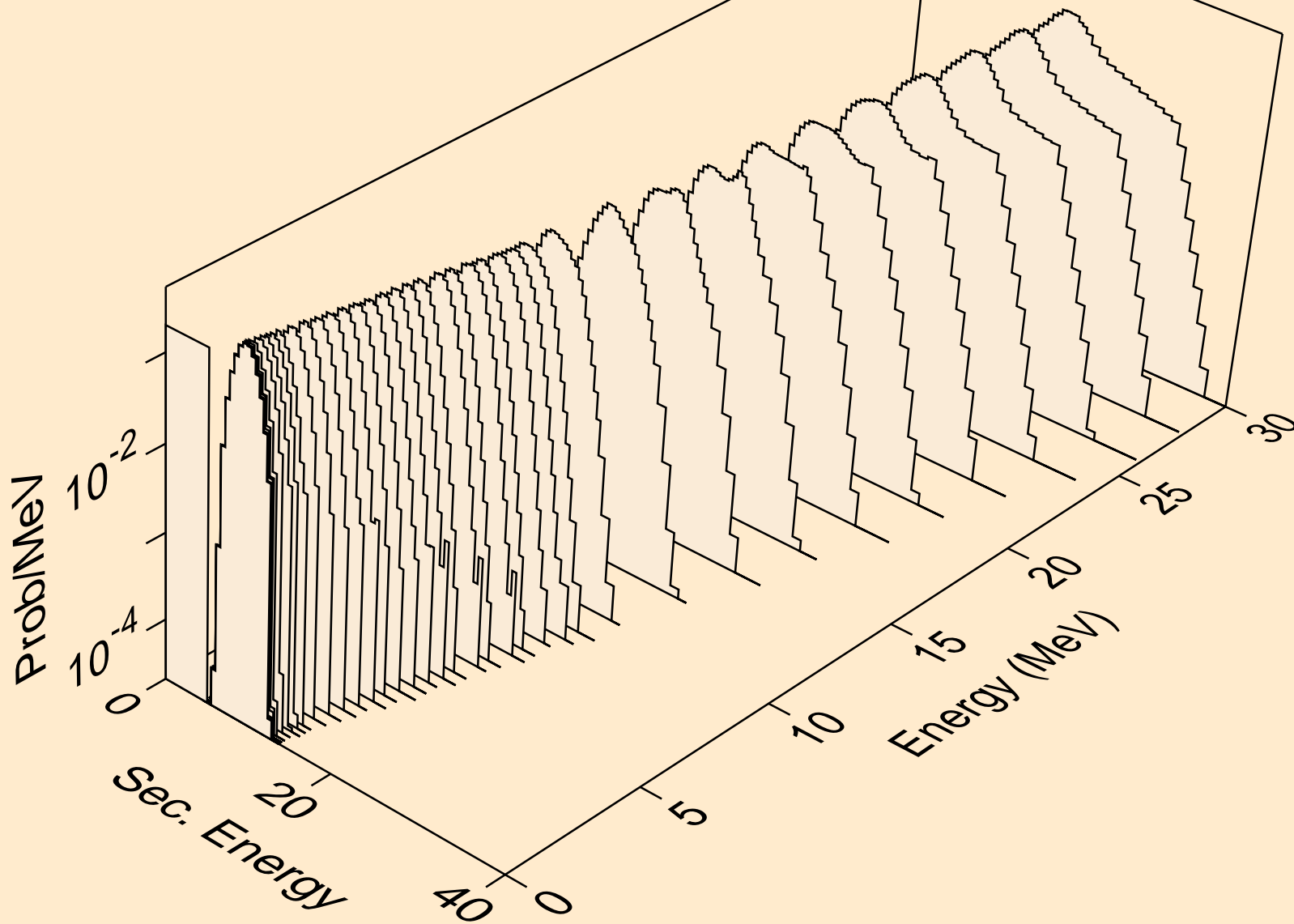
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alphas from (n,npa)



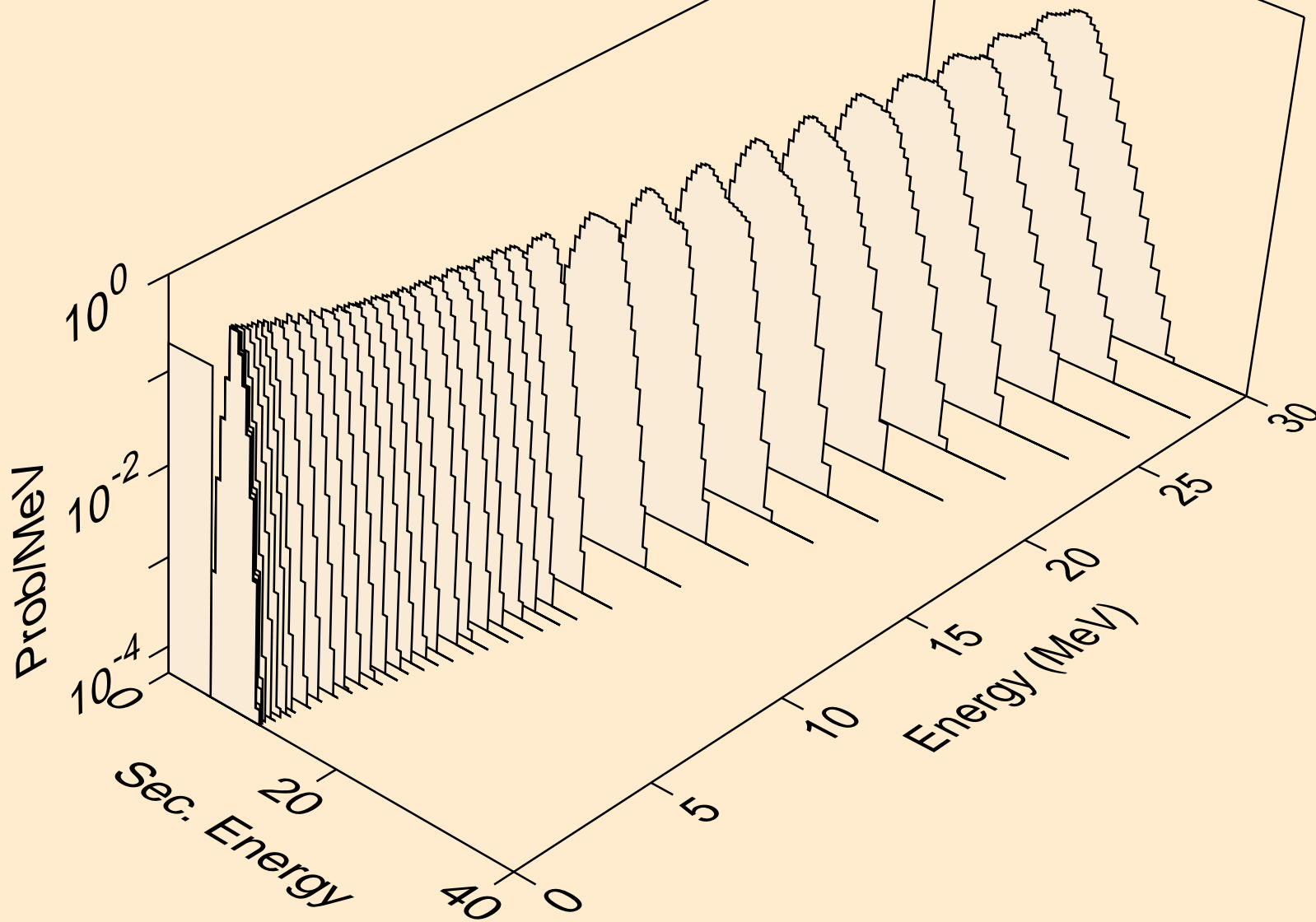
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alphas from (n,a)



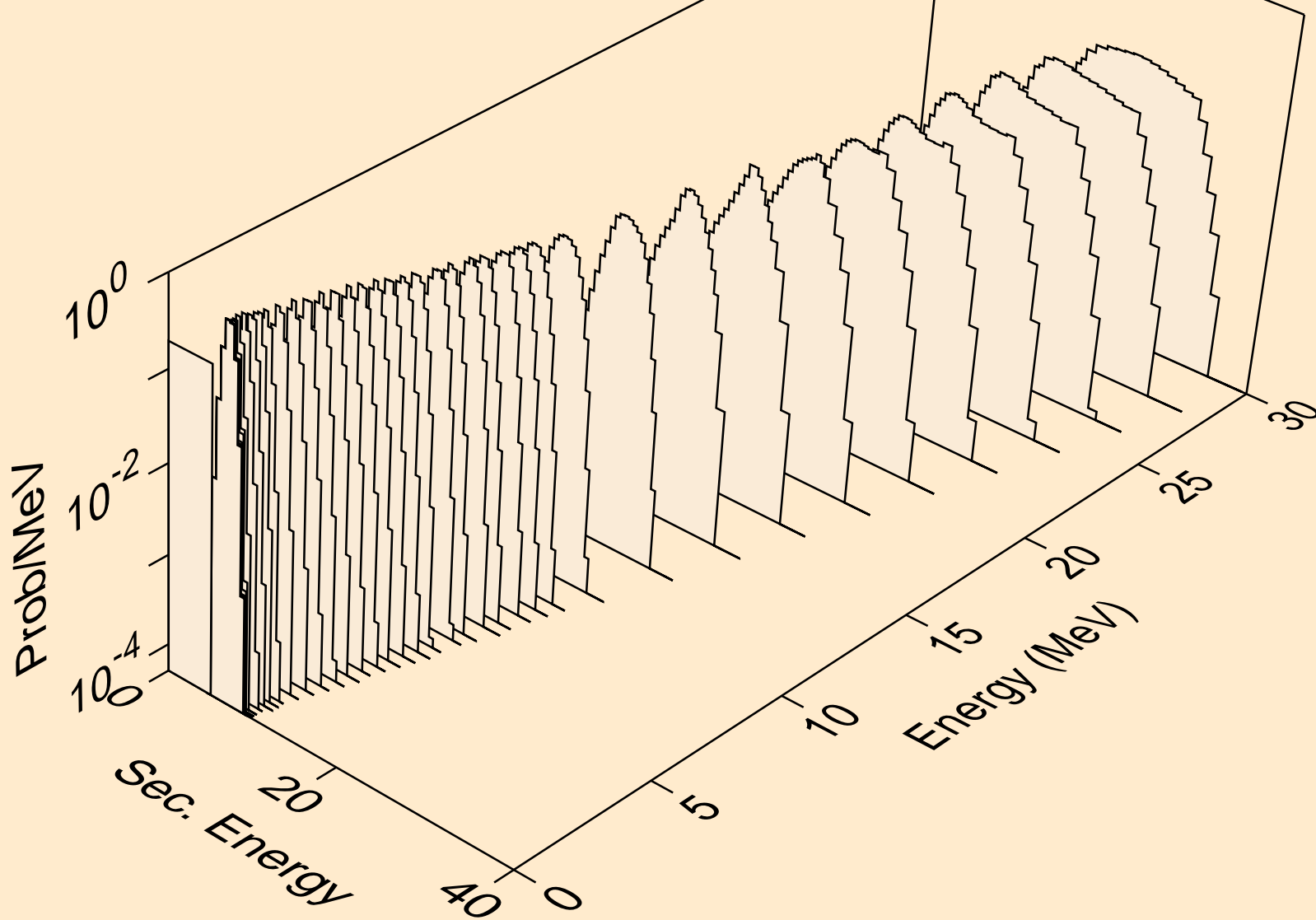
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alphas from (n,2a)



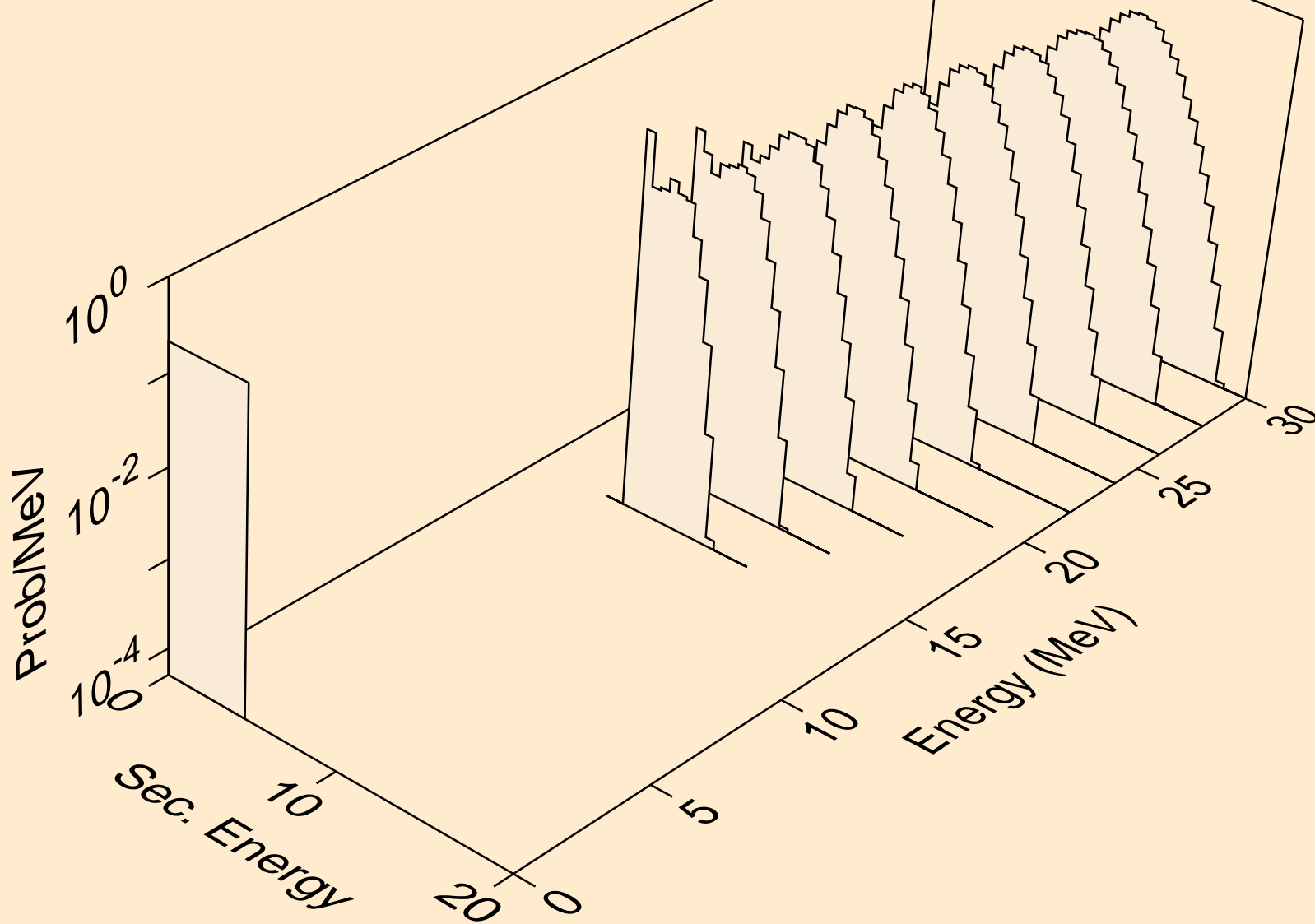
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alphas from (n,3a)



HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,pa)

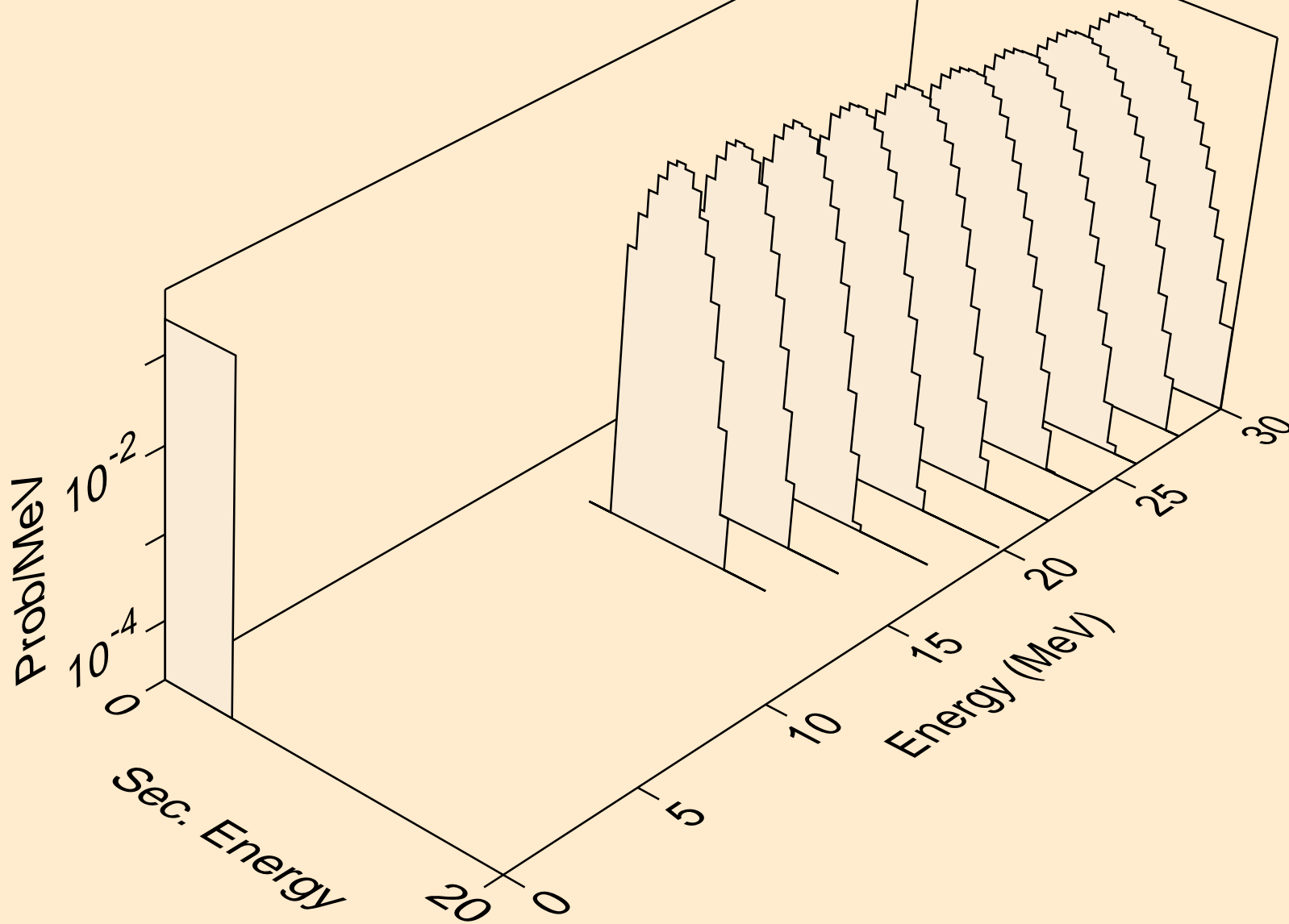


HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,t2a)





HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,d2a)



HF161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,da)

