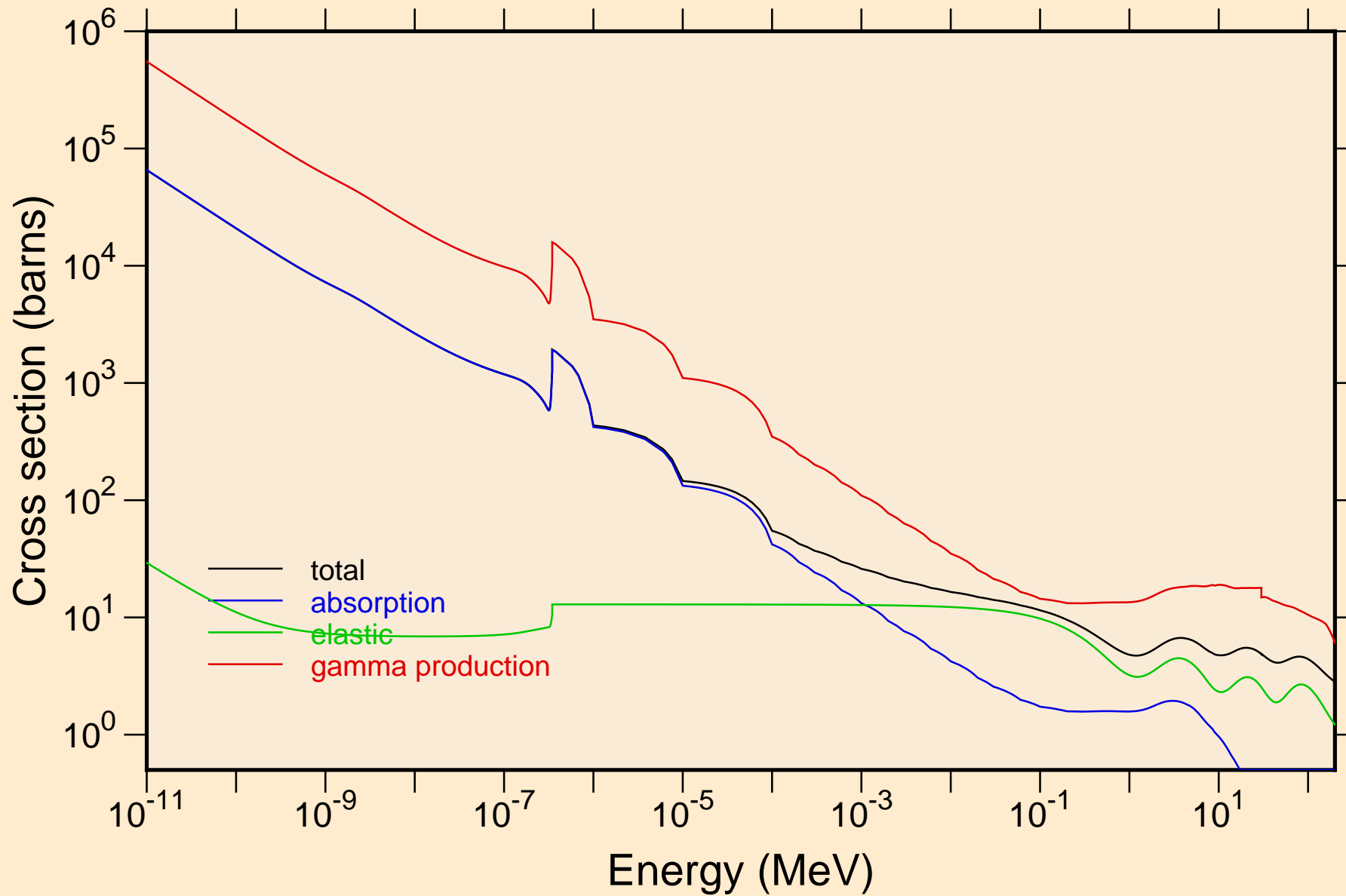


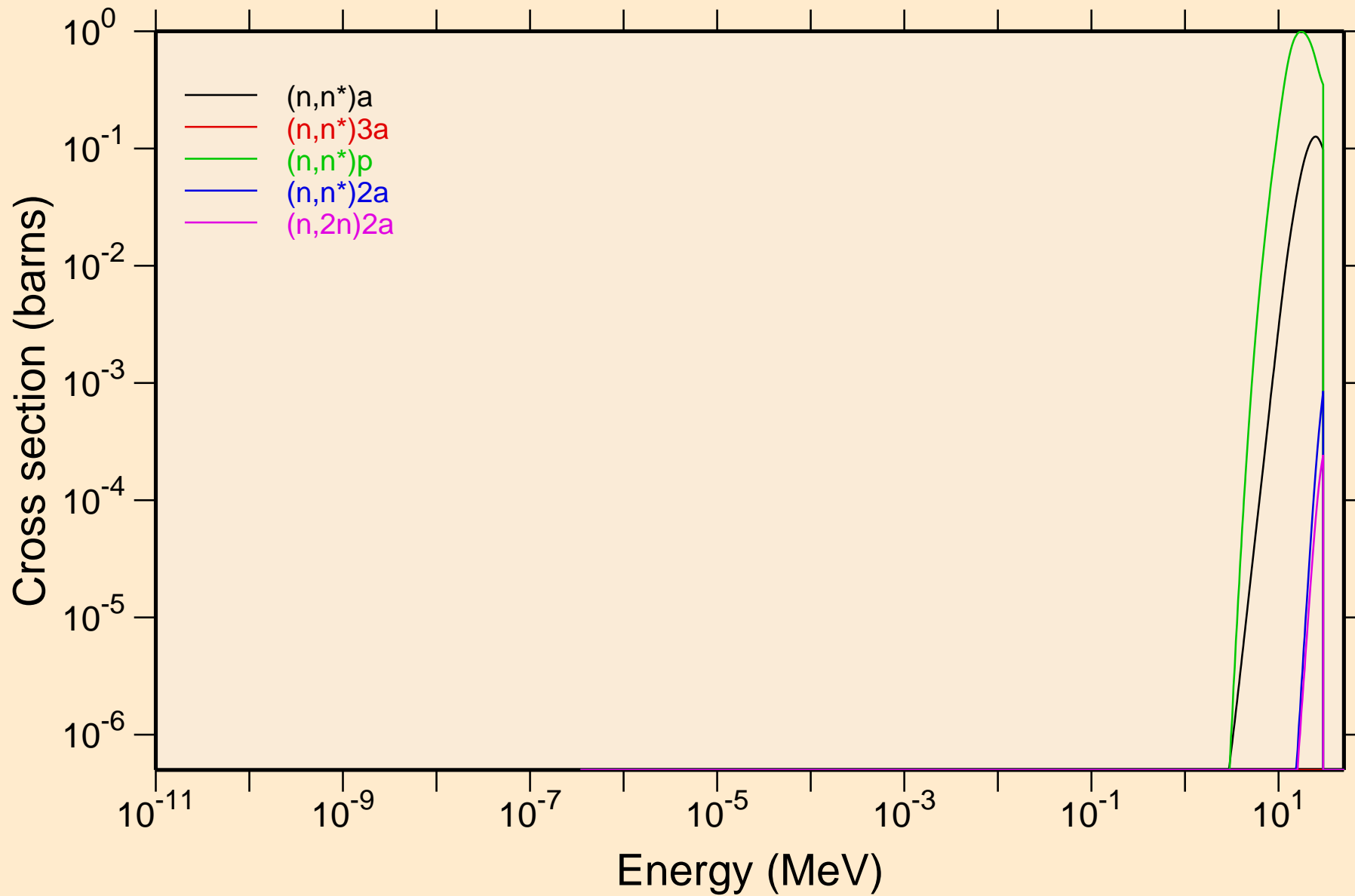
# N-BI190M NRG TENDL-2017, AKONING

## Principal cross sections



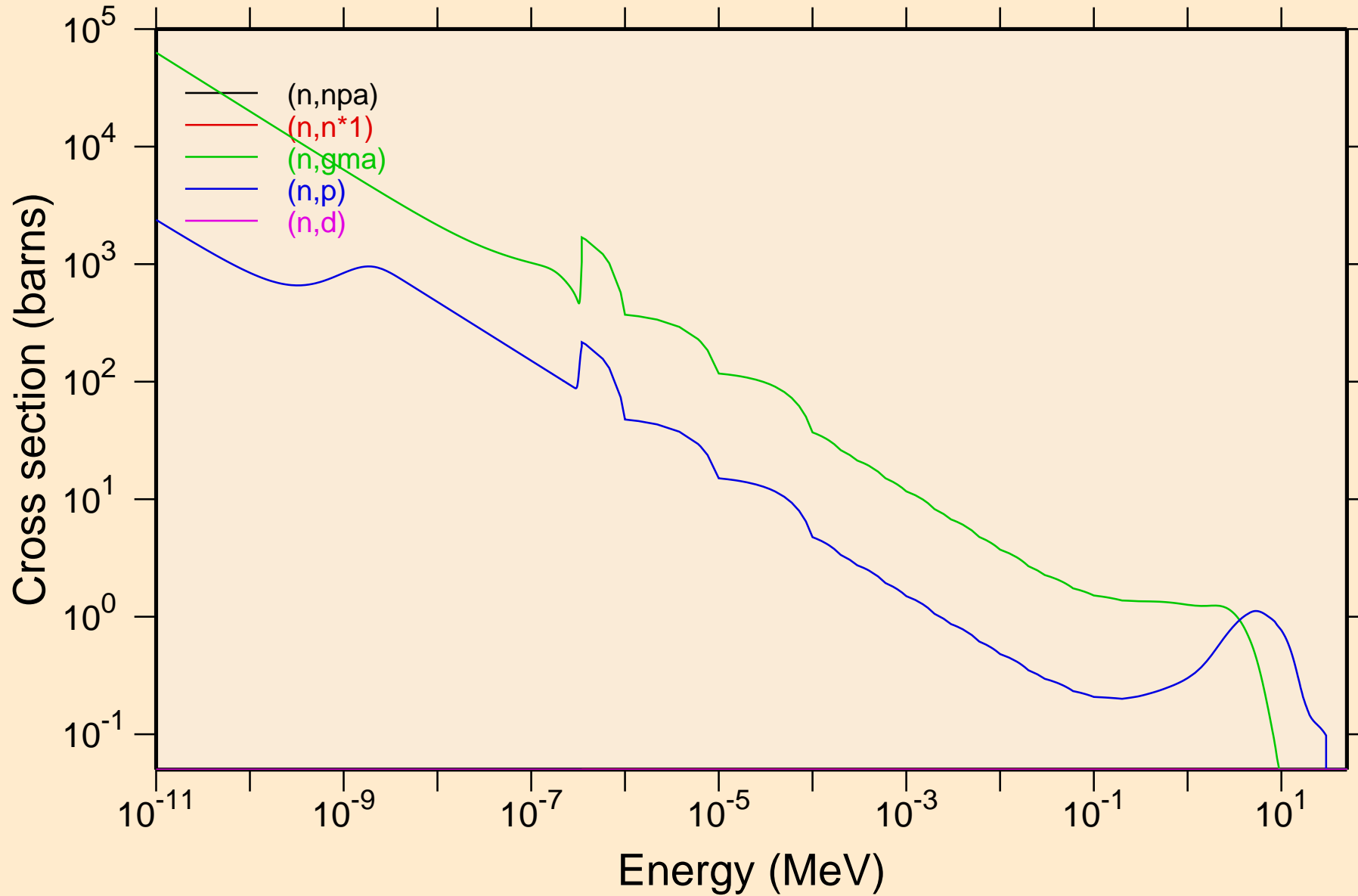
# N-BI190M NRG TENDL-2017, AKONING

## Non-threshold reactions



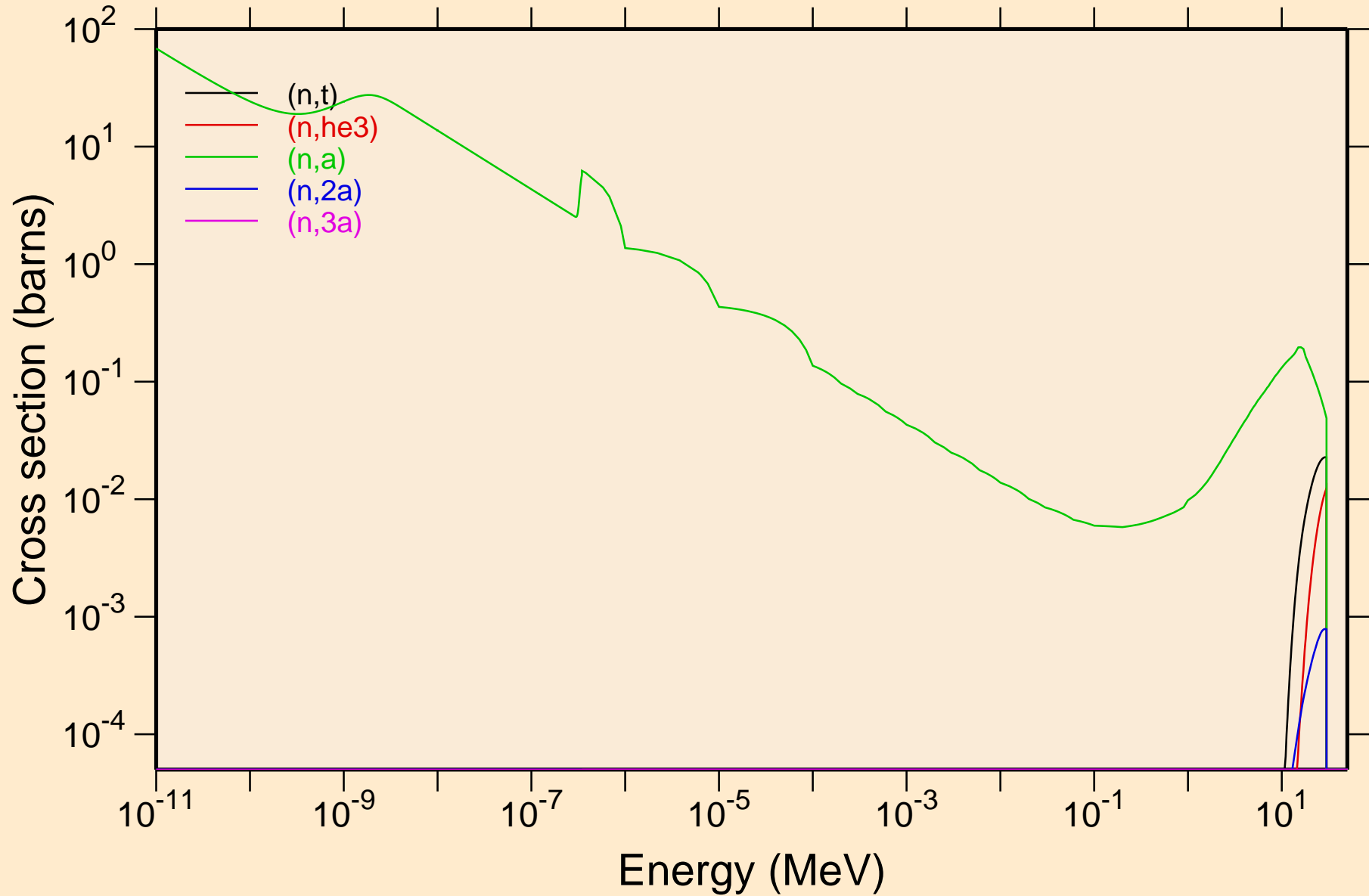
# N-BI190M NRG TENDL-2017, AKONING

## Non-threshold reactions



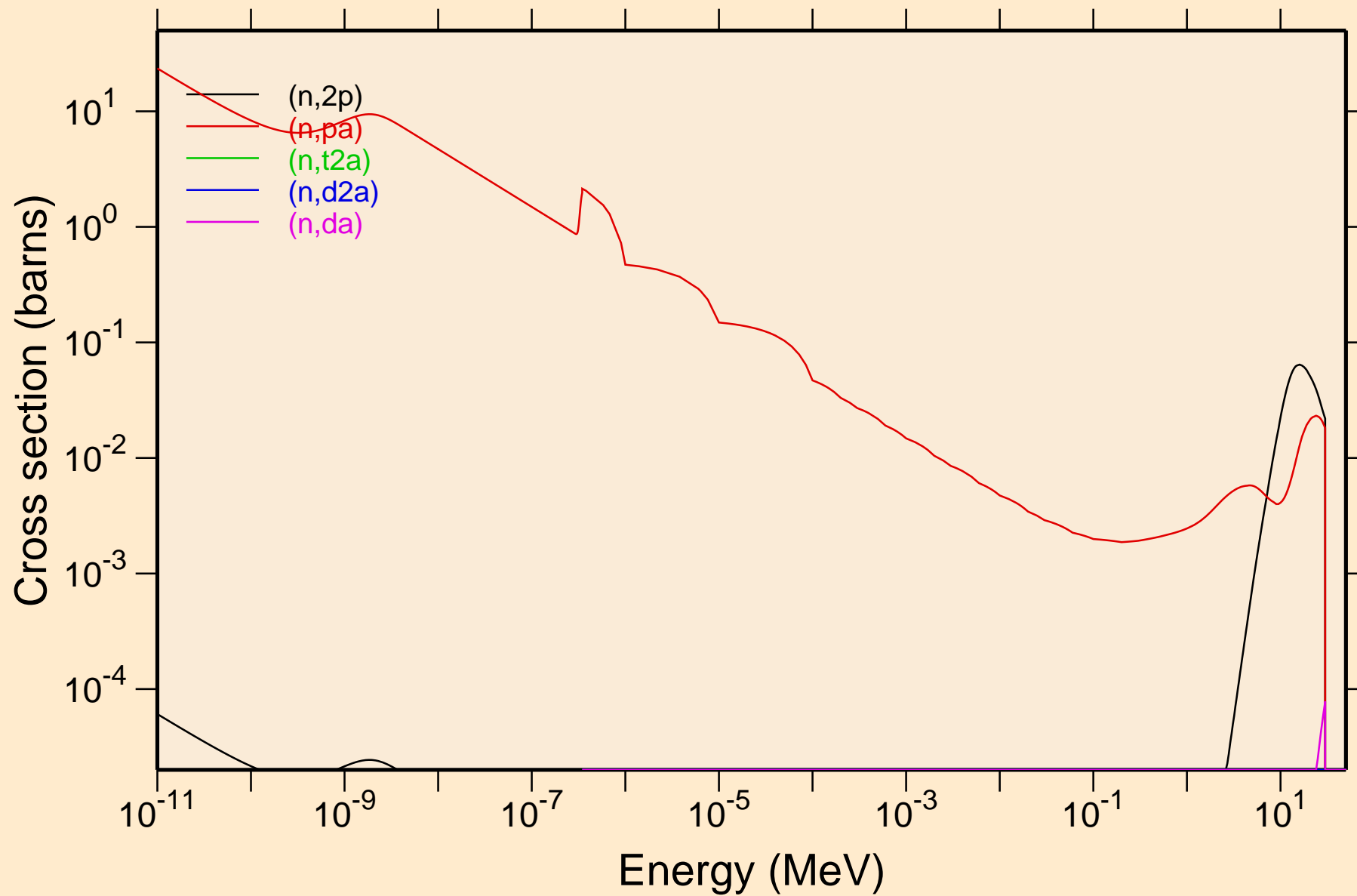
# N-BI190M NRG TENDL-2017, AKONING

## Non-threshold reactions



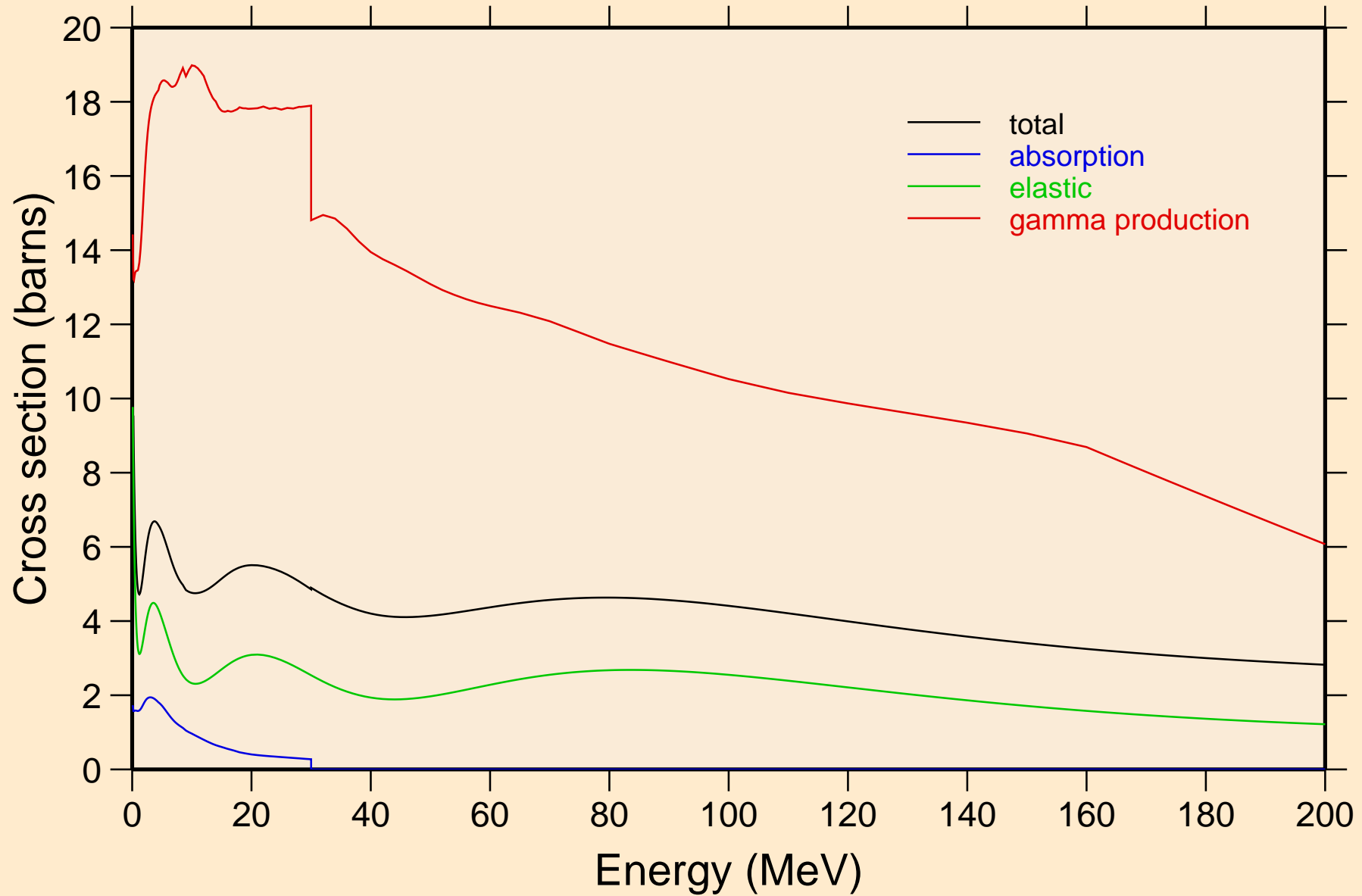
# N-BI190M NRG TENDL-2017, AKONING

## Non-threshold reactions



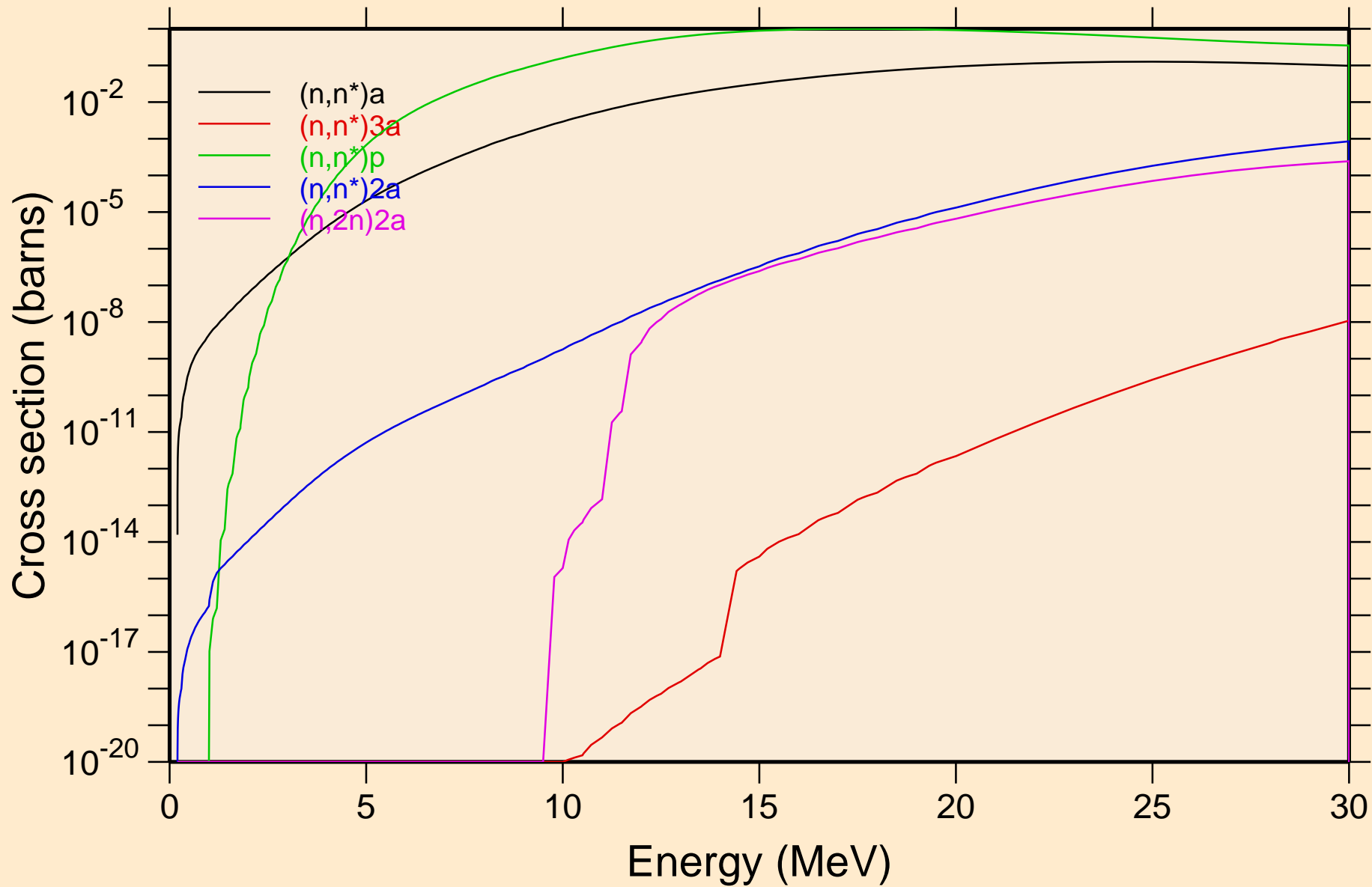
# N-BI190M NRG TENDL-2017, AKONING

## Principal cross sections



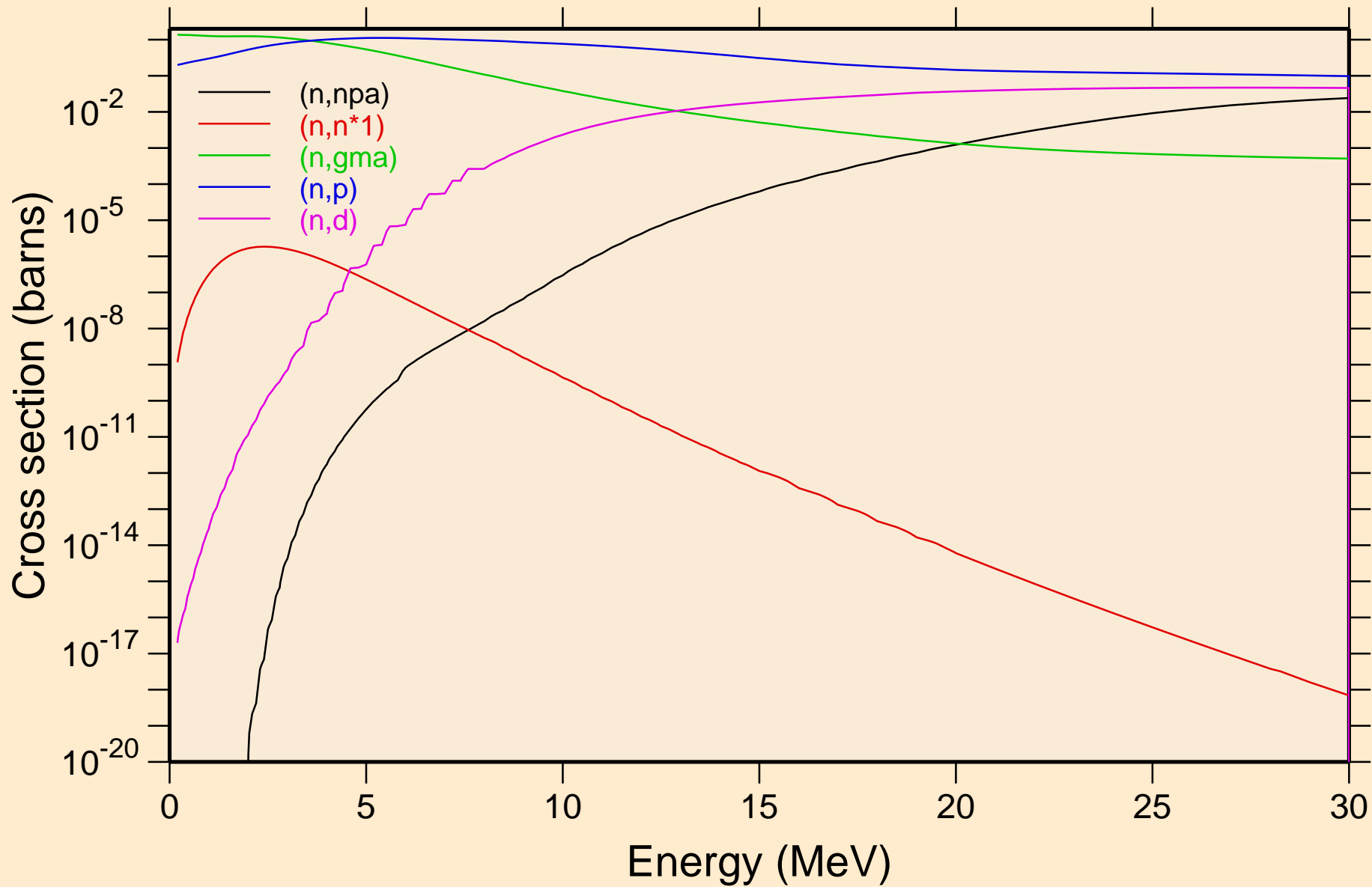
# N-BI190M NRG TENDL-2017, AKONING

## Non-threshold reactions



# N-BI190M NRG TENDL-2017, AKONING

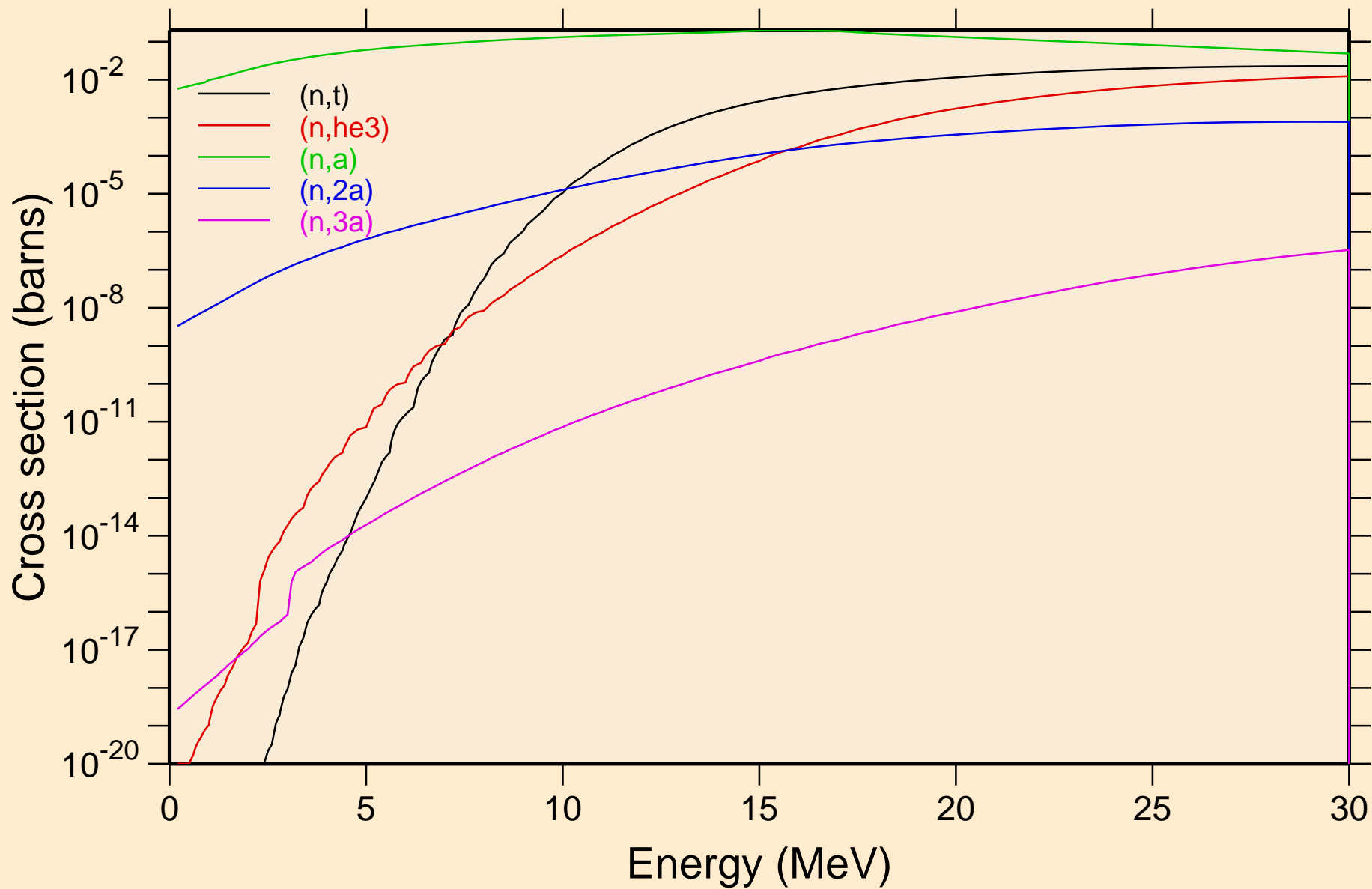
## Non-threshold reactions





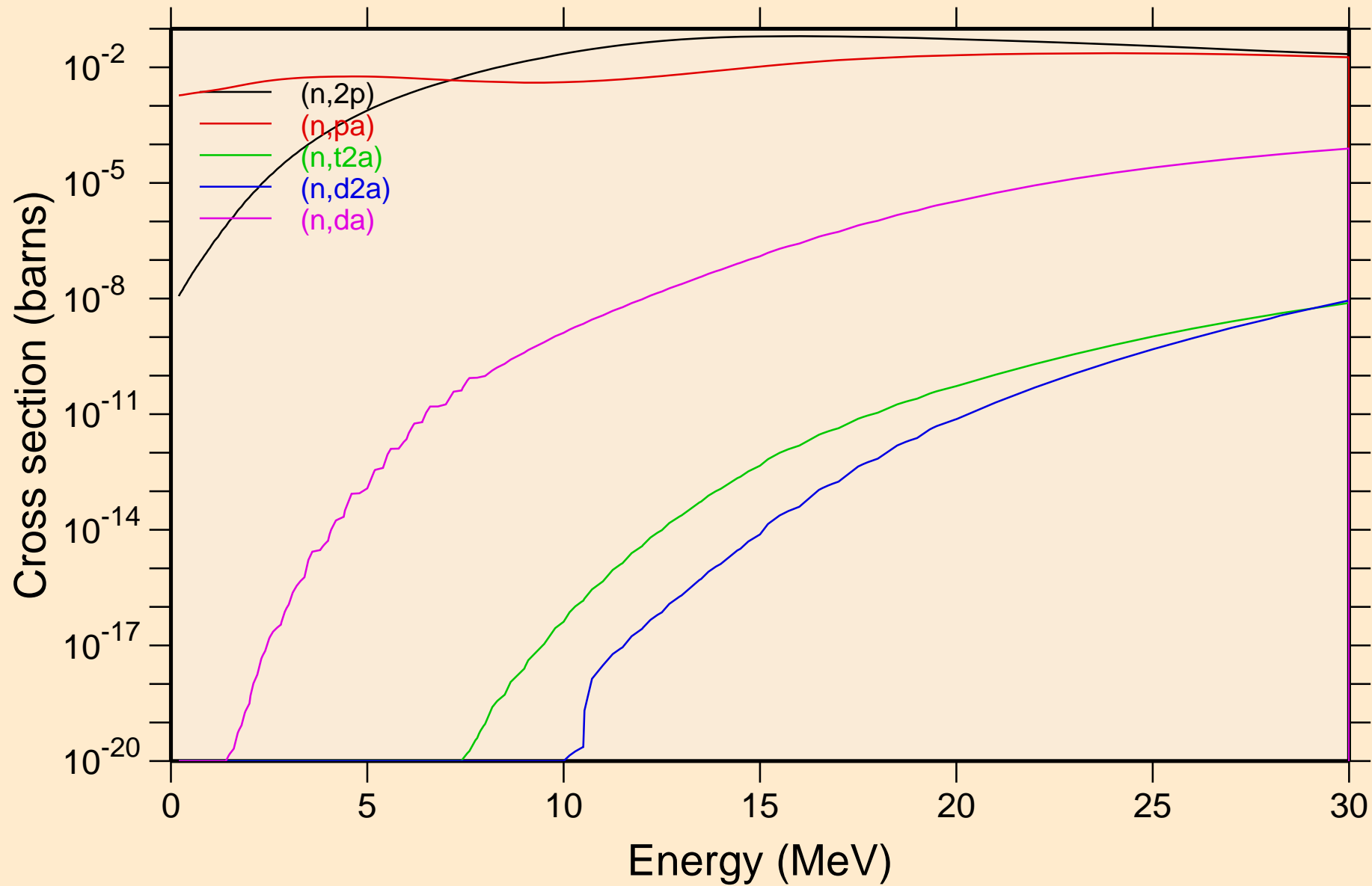
# N-BI190M NRG TENDL-2017, AKONING

## Non-threshold reactions



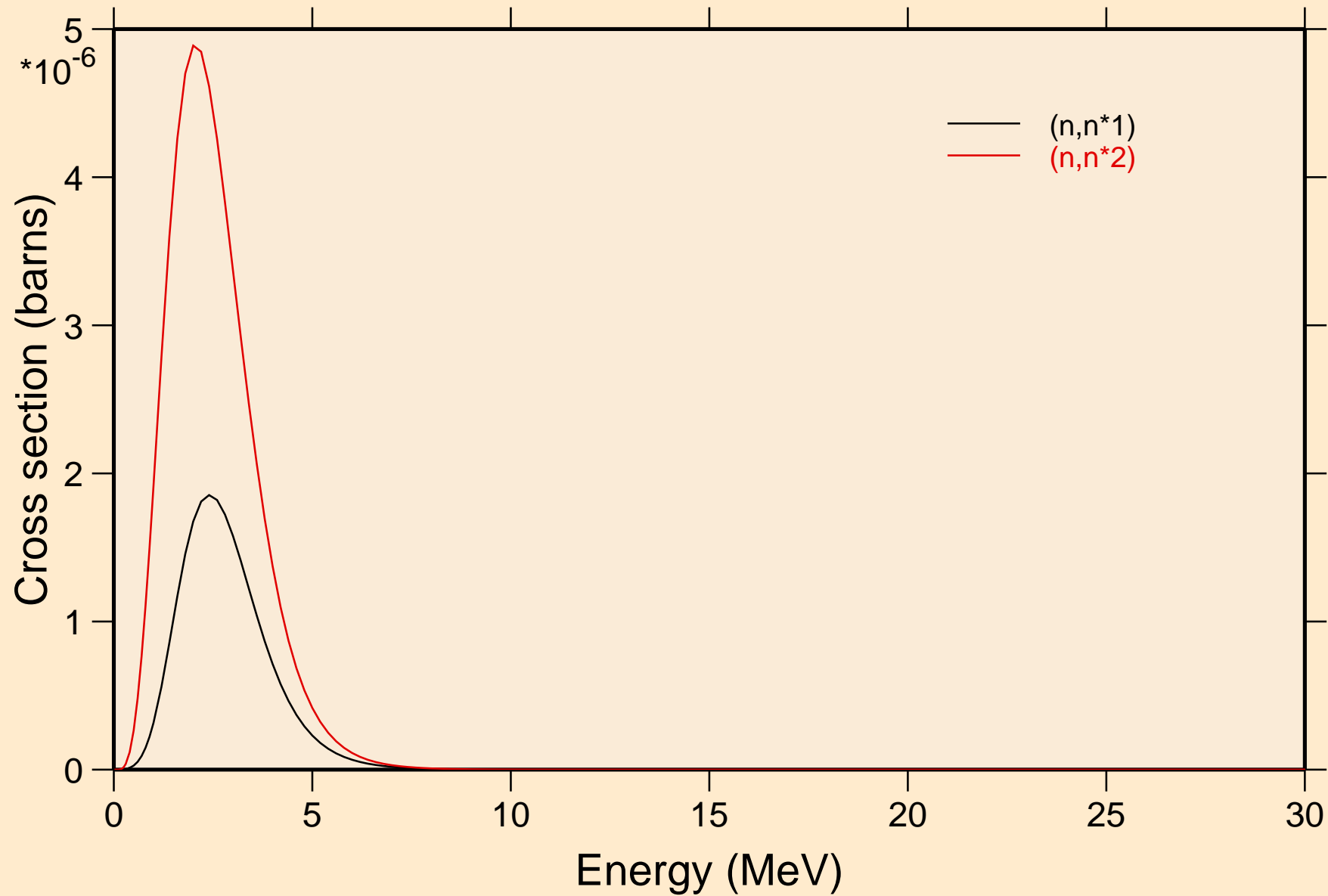
# N-BI190M NRG TENDL-2017, AKONING

## Non-threshold reactions



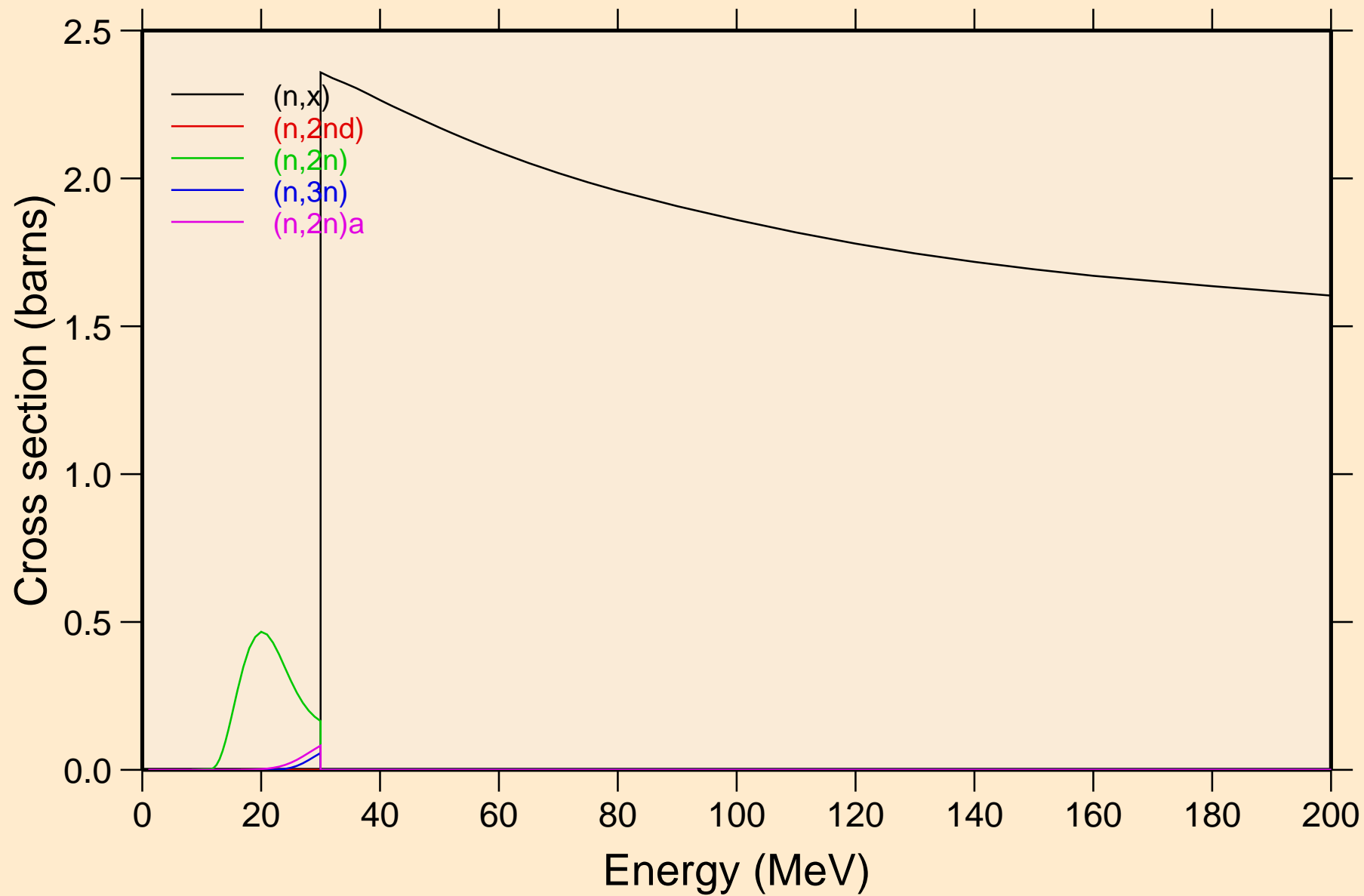
# N-BI190M NRG TENDL-2017, AKONING

## Inelastic levels



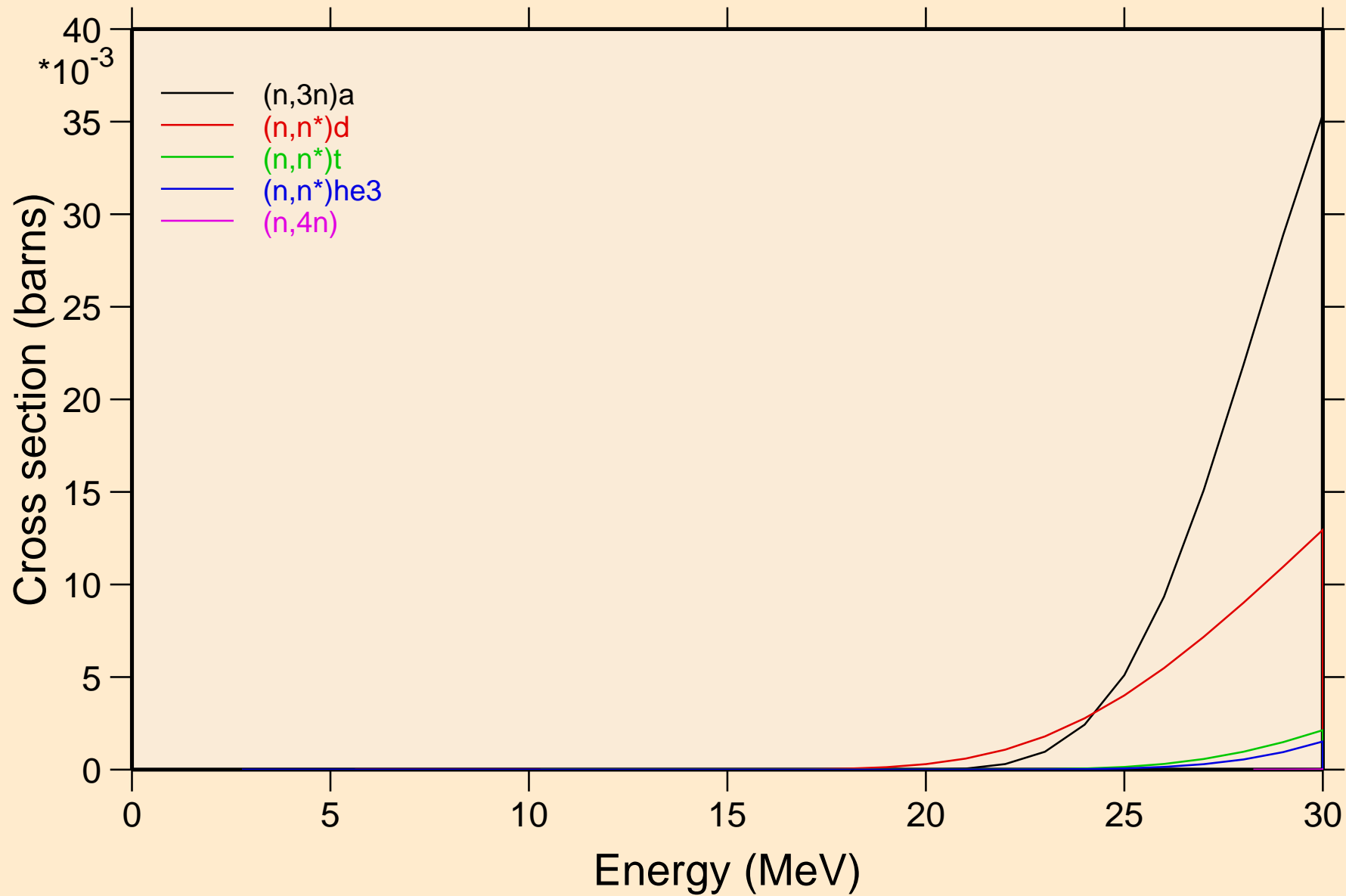
# N-BI190M NRG TENDL-2017, AKONING

## Threshold reactions



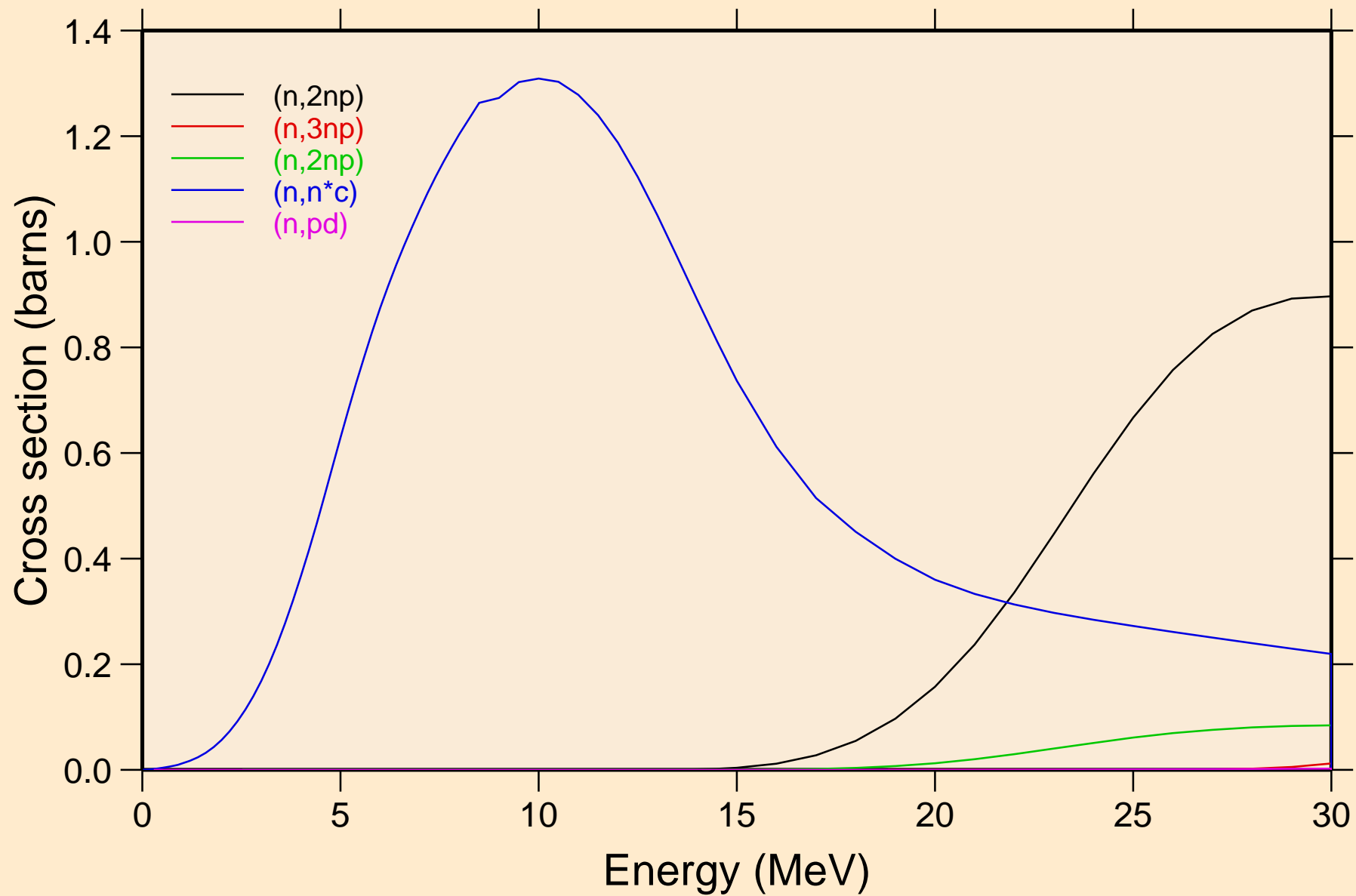
# N-BI190M NRG TENDL-2017, AKONING

## Threshold reactions



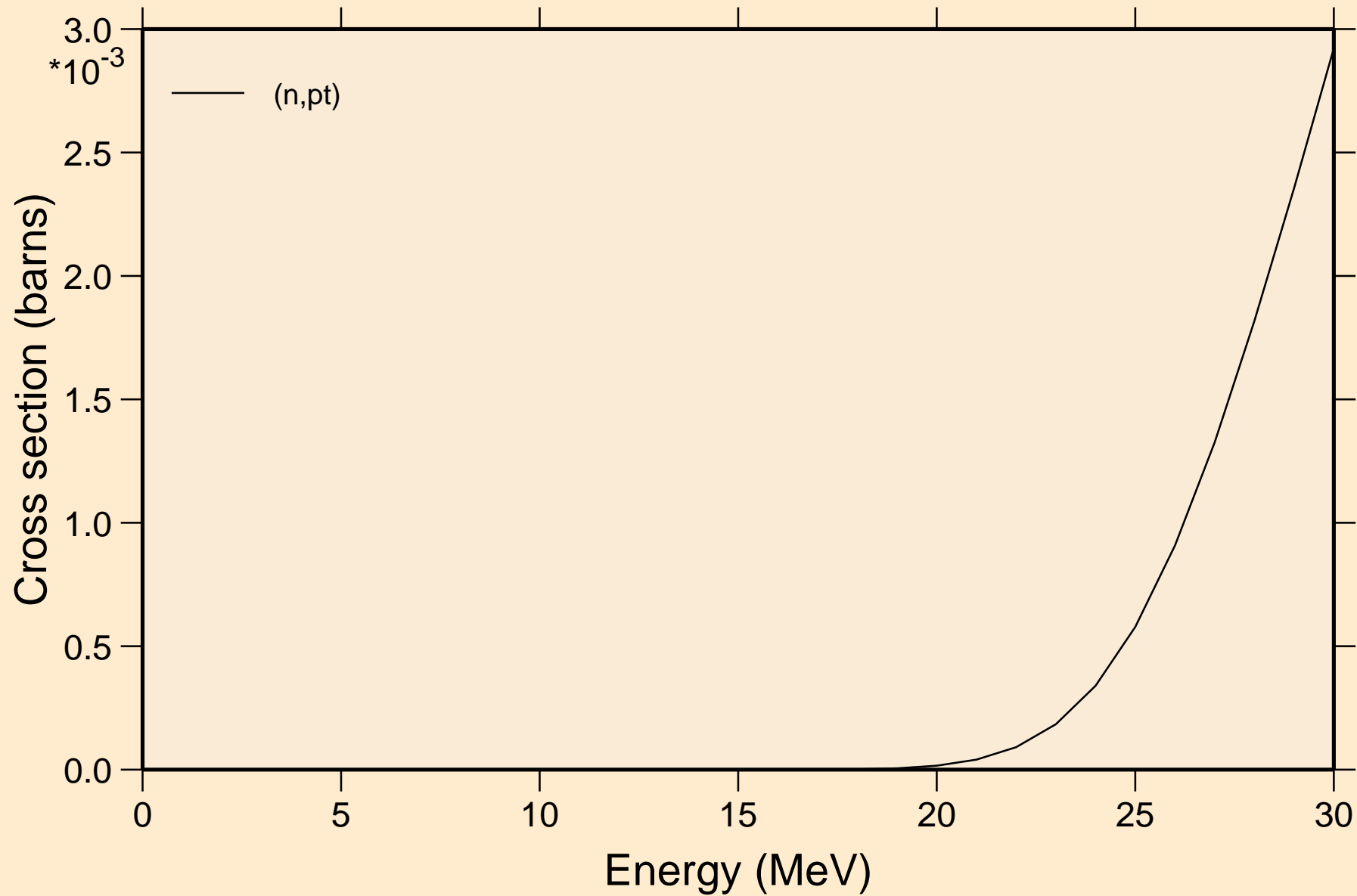
# N-BI190M NRG TENDL-2017, AKONING

## Threshold reactions

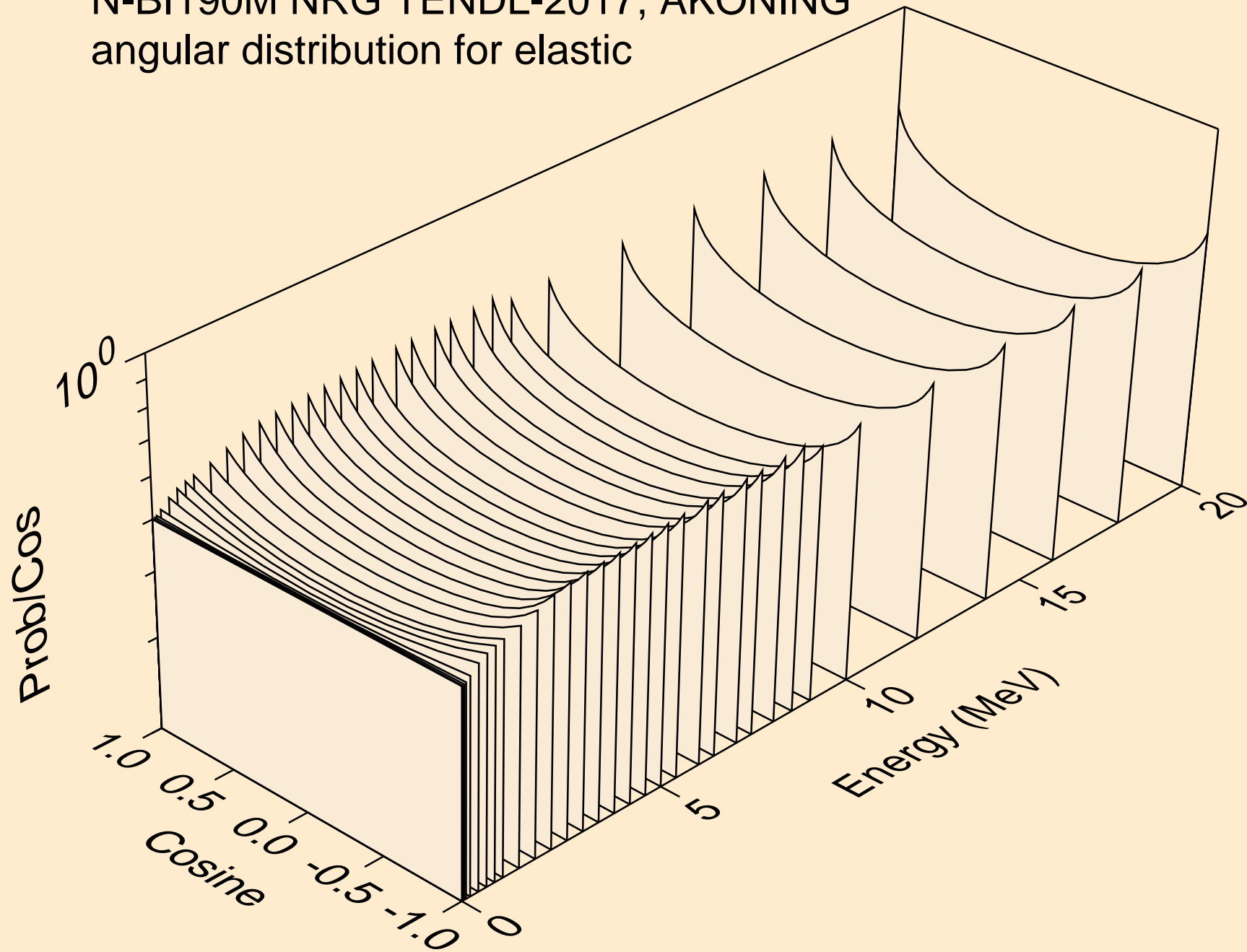


# N-BI190M NRG TENDL-2017, AKONING

## Threshold reactions

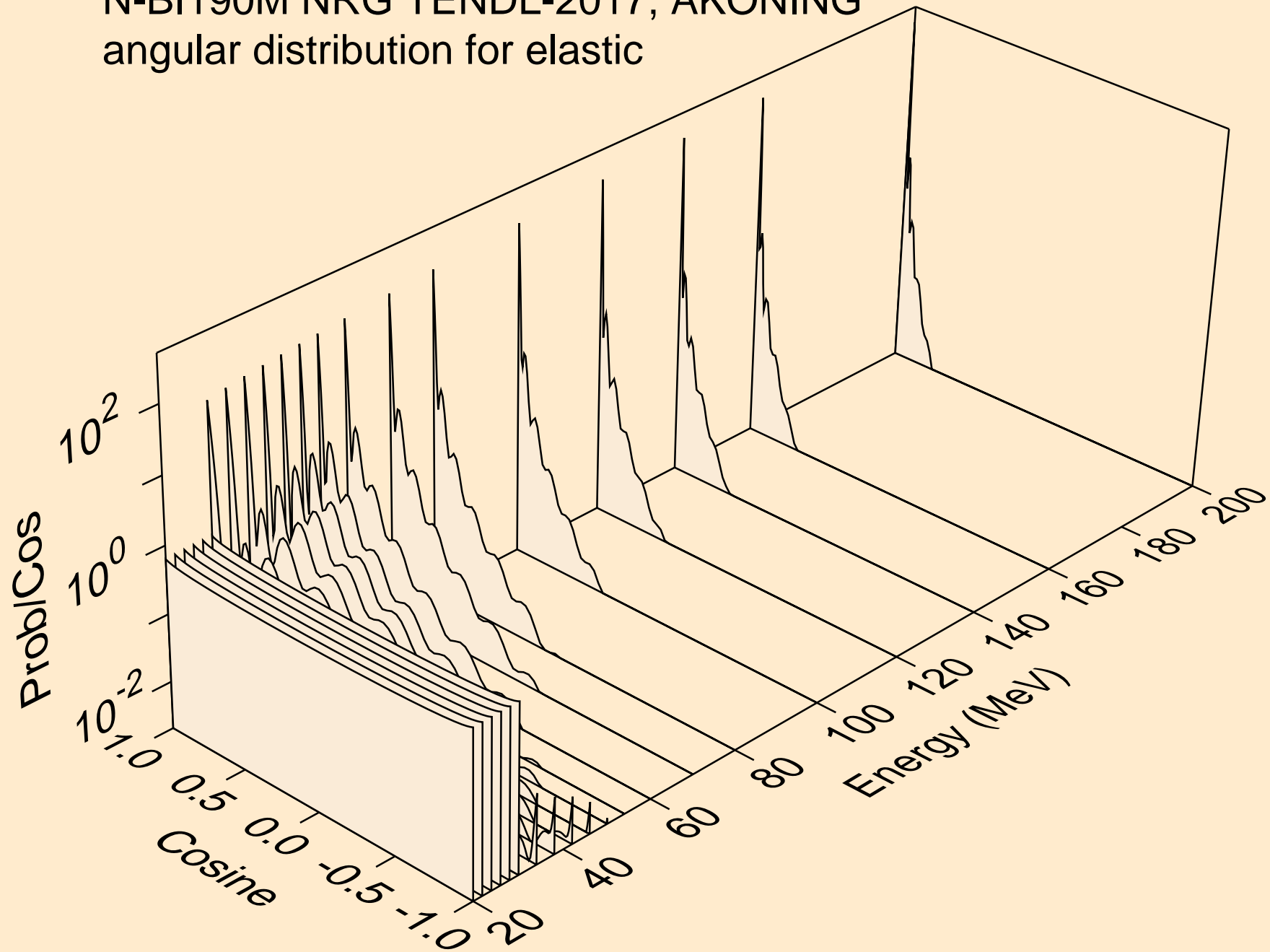


N-BI190M NRG TENDL-2017, AKONING  
angular distribution for elastic

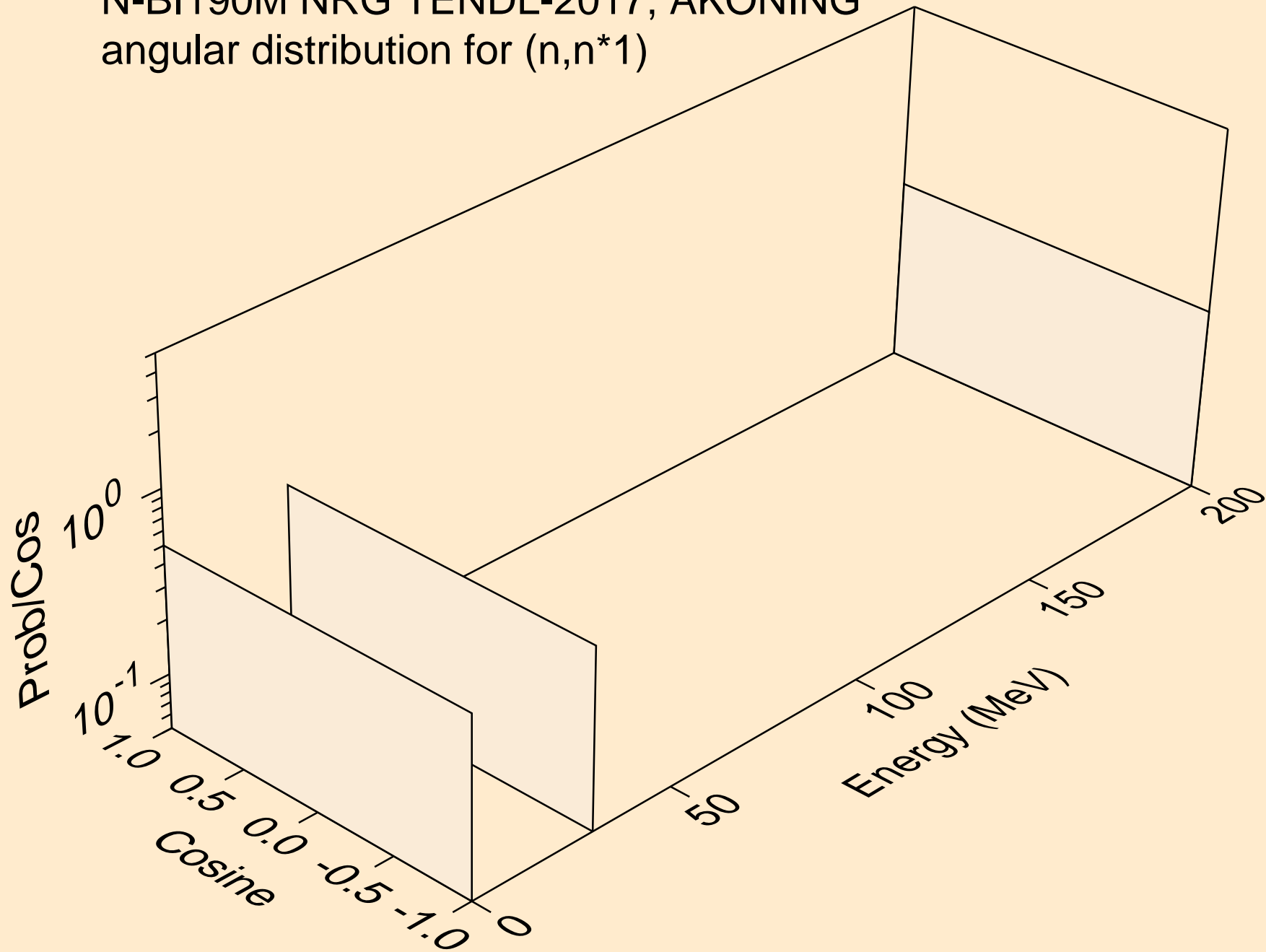




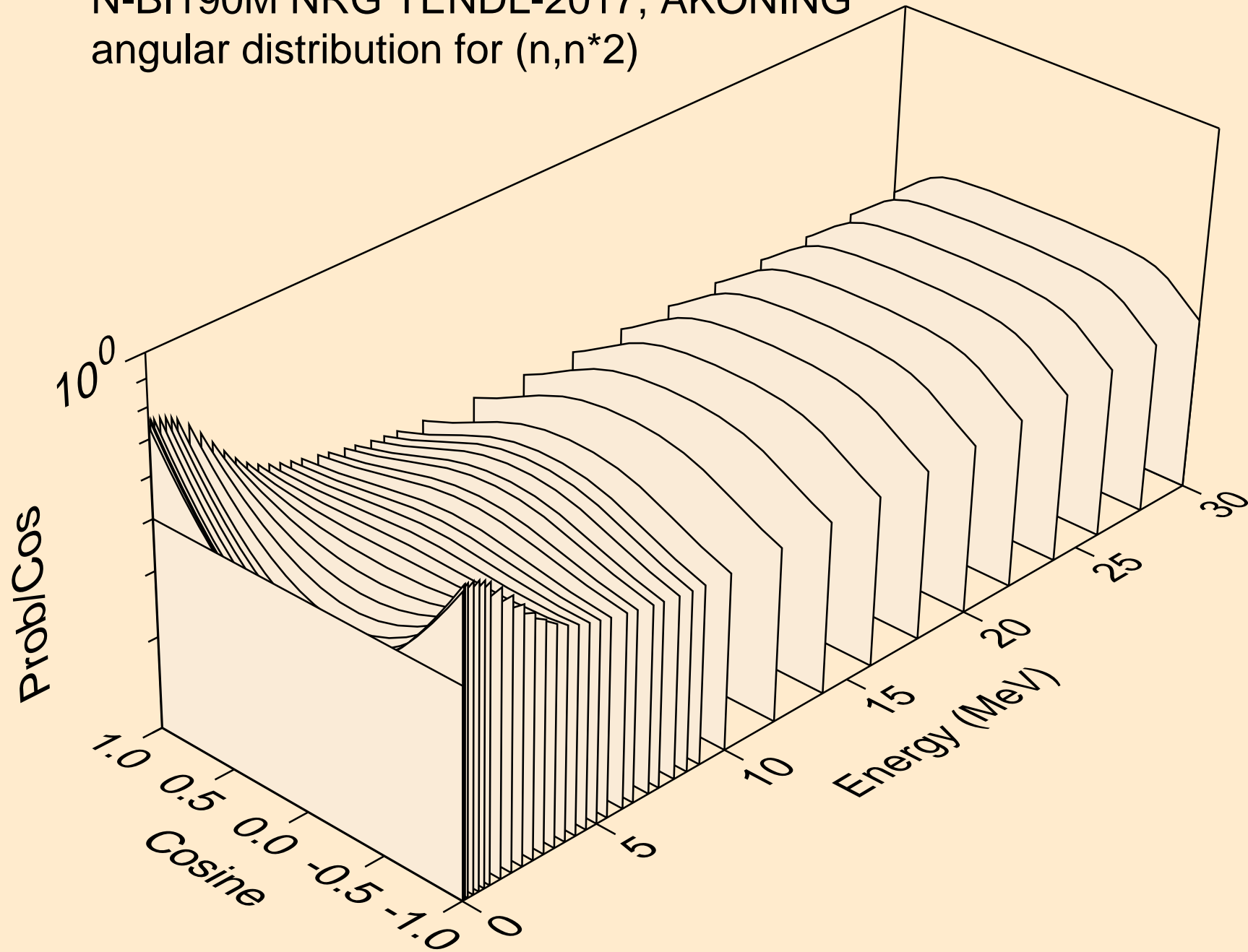
N-BI190M NRG TENDL-2017, AKONING  
angular distribution for elastic



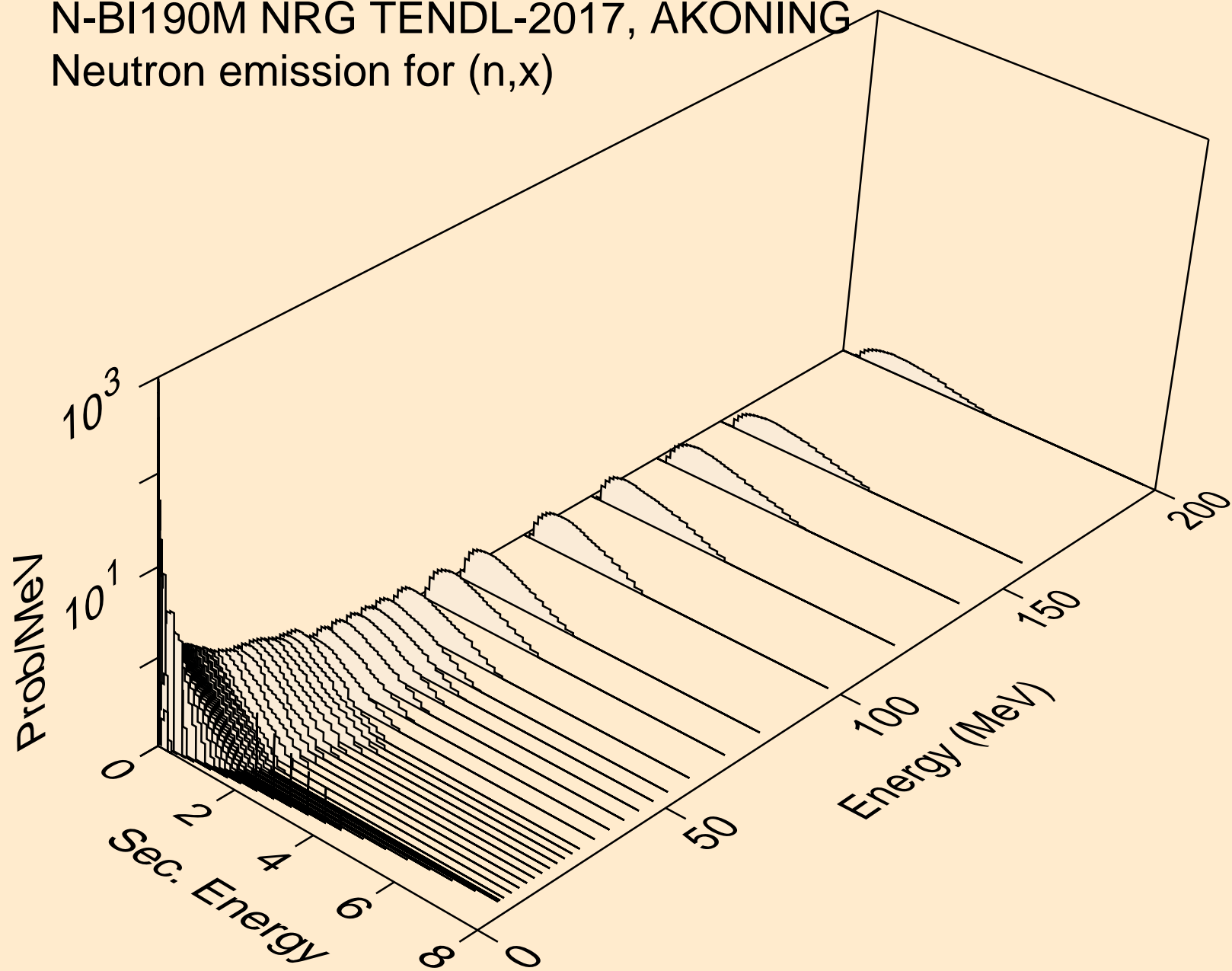
N-BI190M NRG TENDL-2017, AKONING  
angular distribution for (n,n\*1)



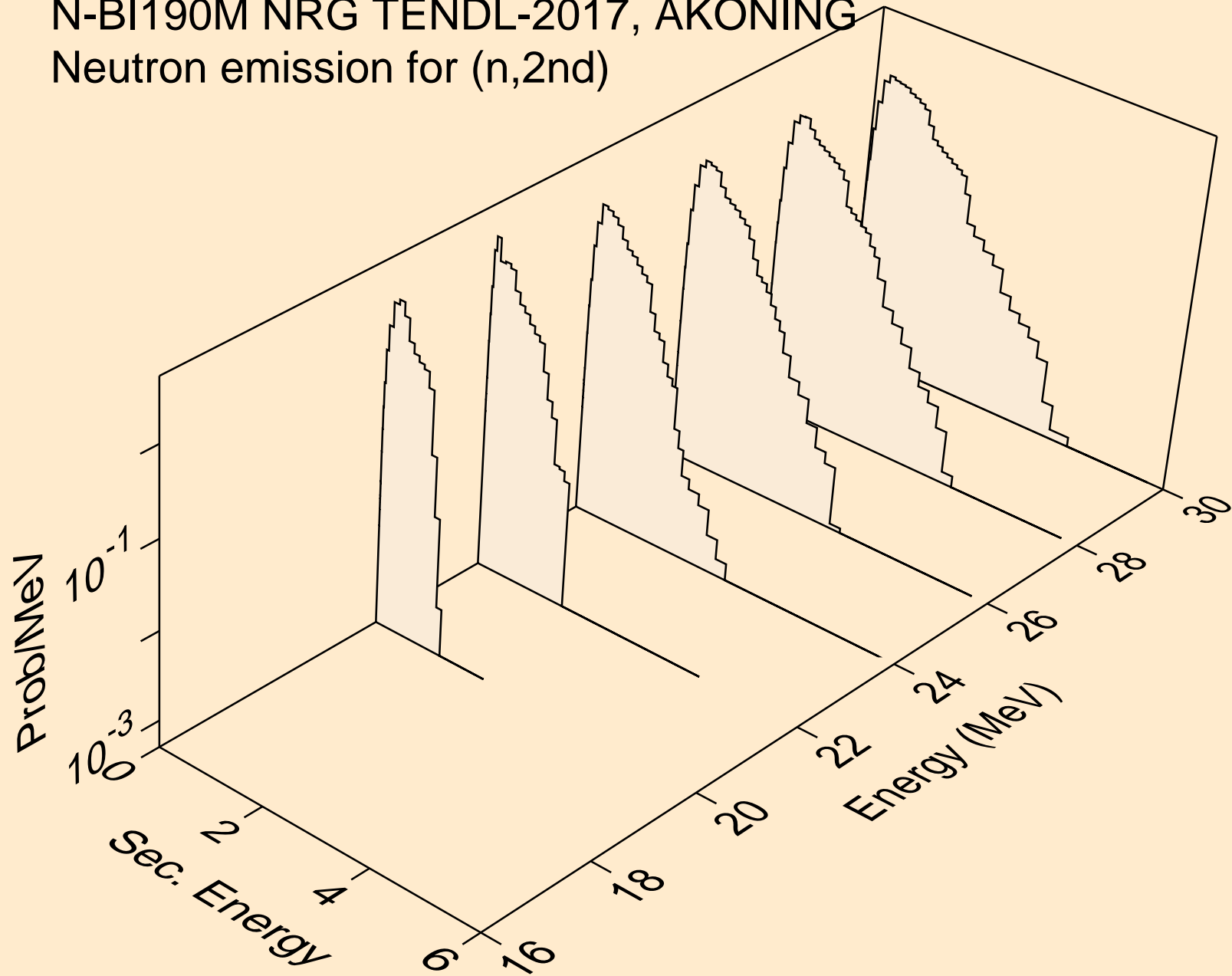
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angular distribution for (n,n\*2)



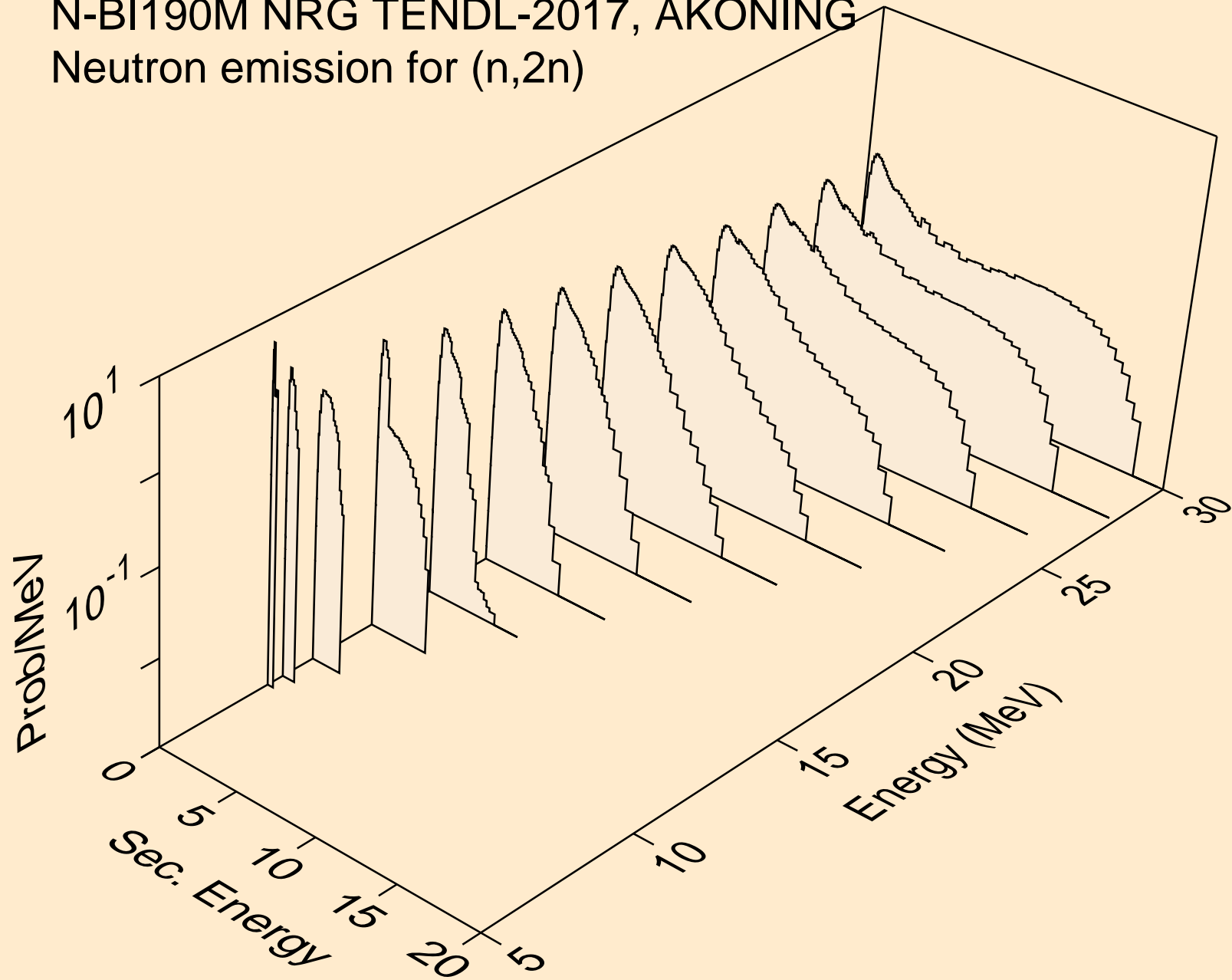
N-BI190M NRG TENDL-2017, AKONING  
Neutron emission for (n,x)



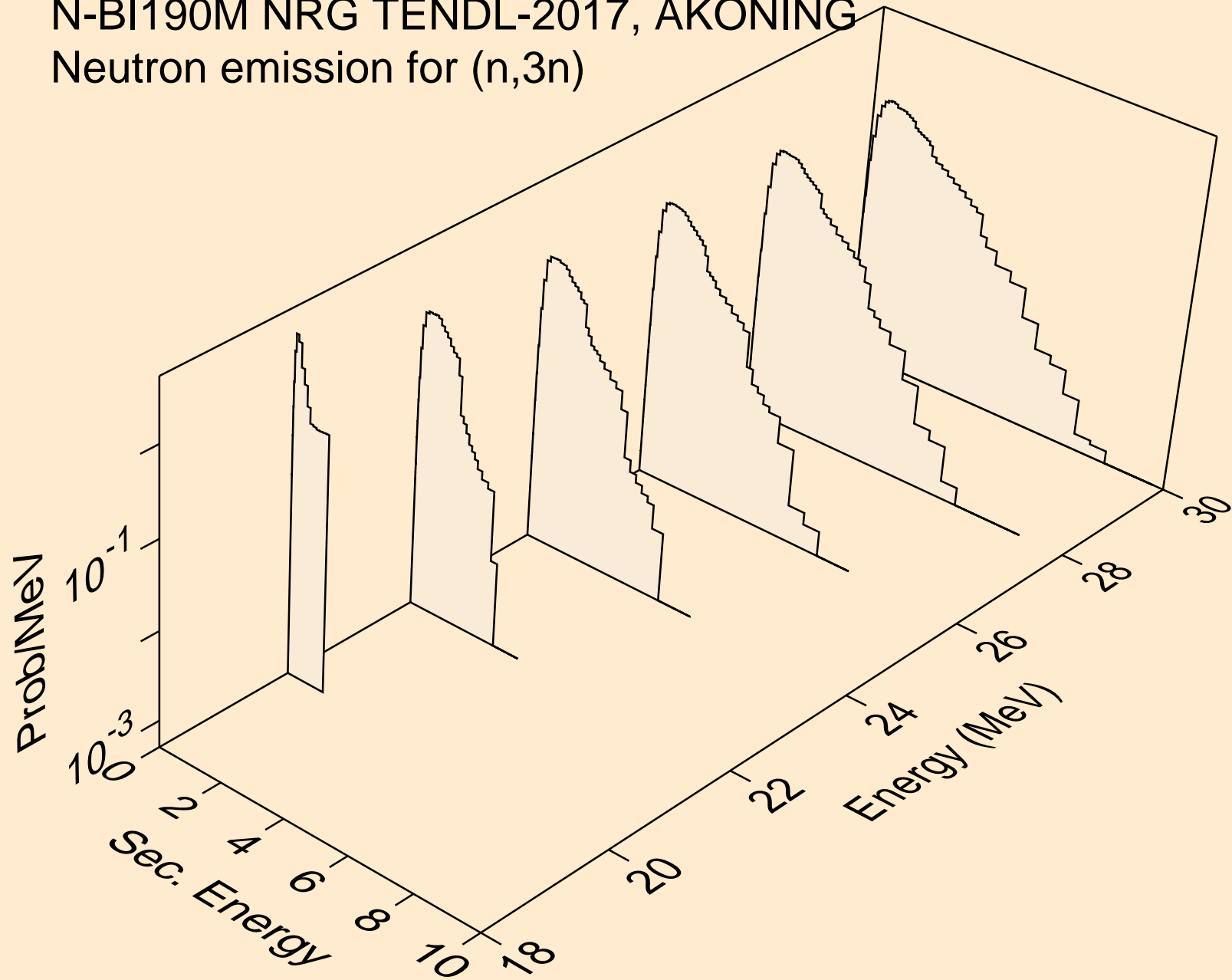
N-BI190M NRG TENDL-2017, AKONING  
Neutron emission for (n,2nd)



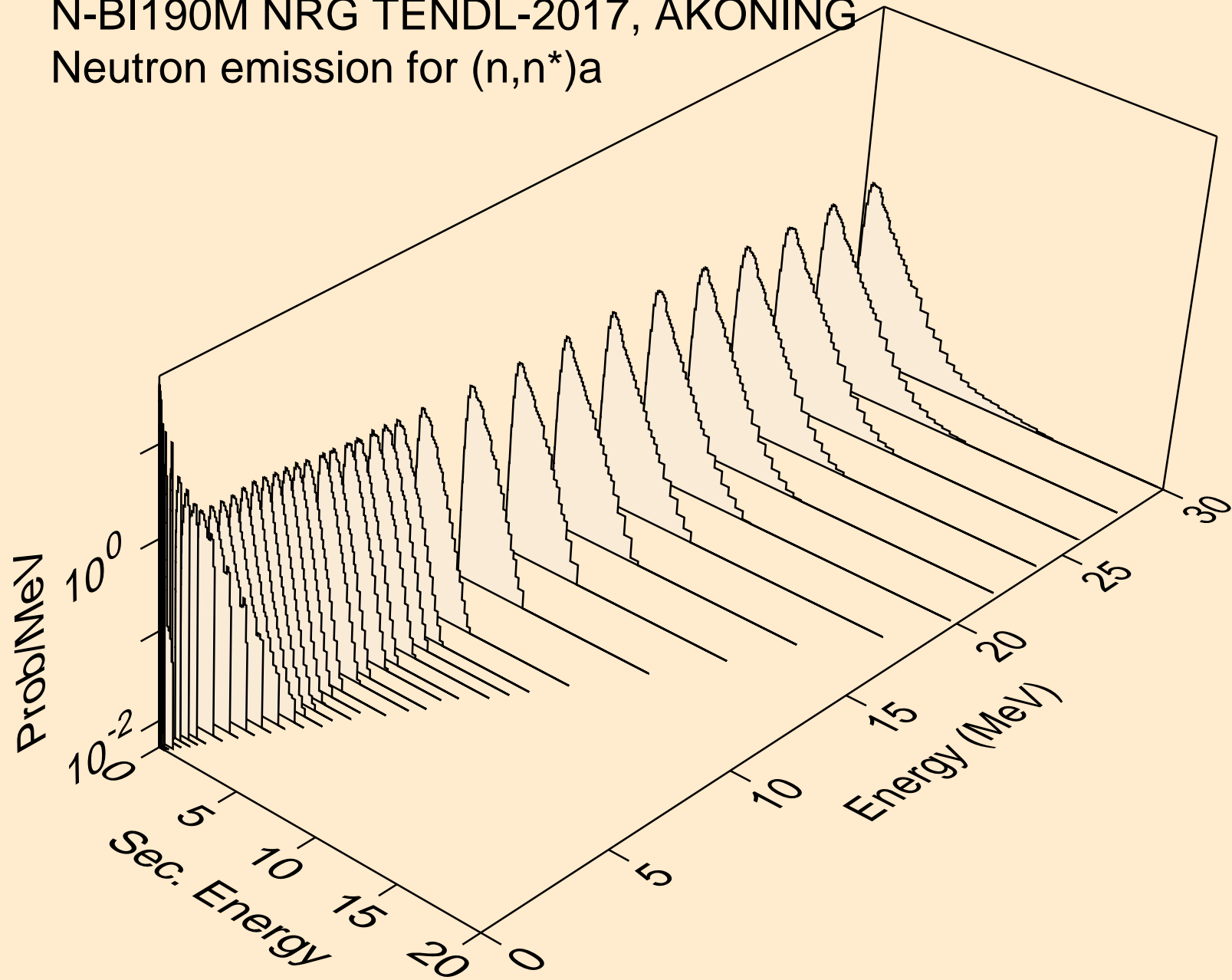
N-BI190M NRG TENDL-2017, AKONING  
Neutron emission for (n,2n)



N-BI190M NRG TENDL-2017, AKONING  
Neutron emission for (n,3n)

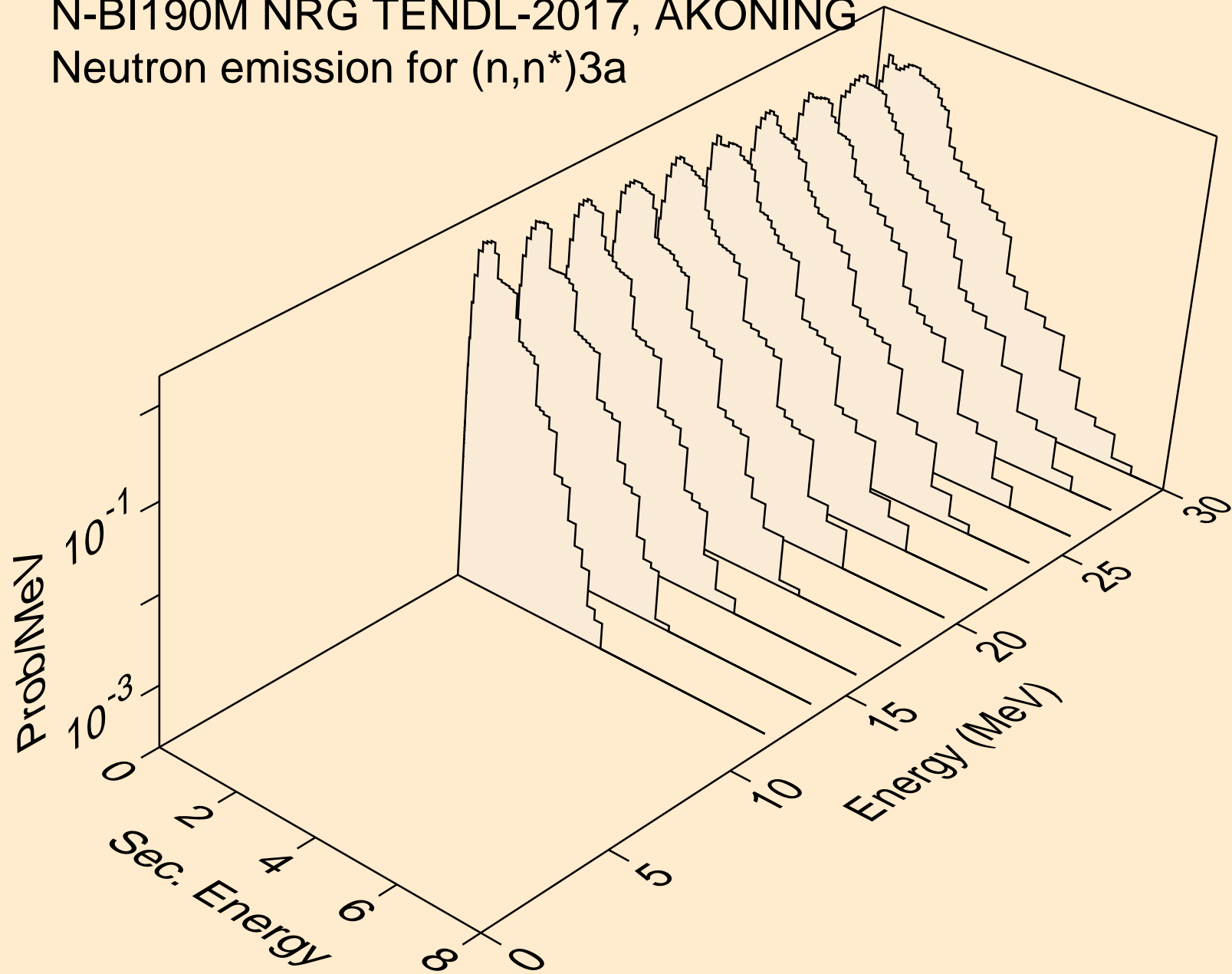


N-BI190M NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*)a

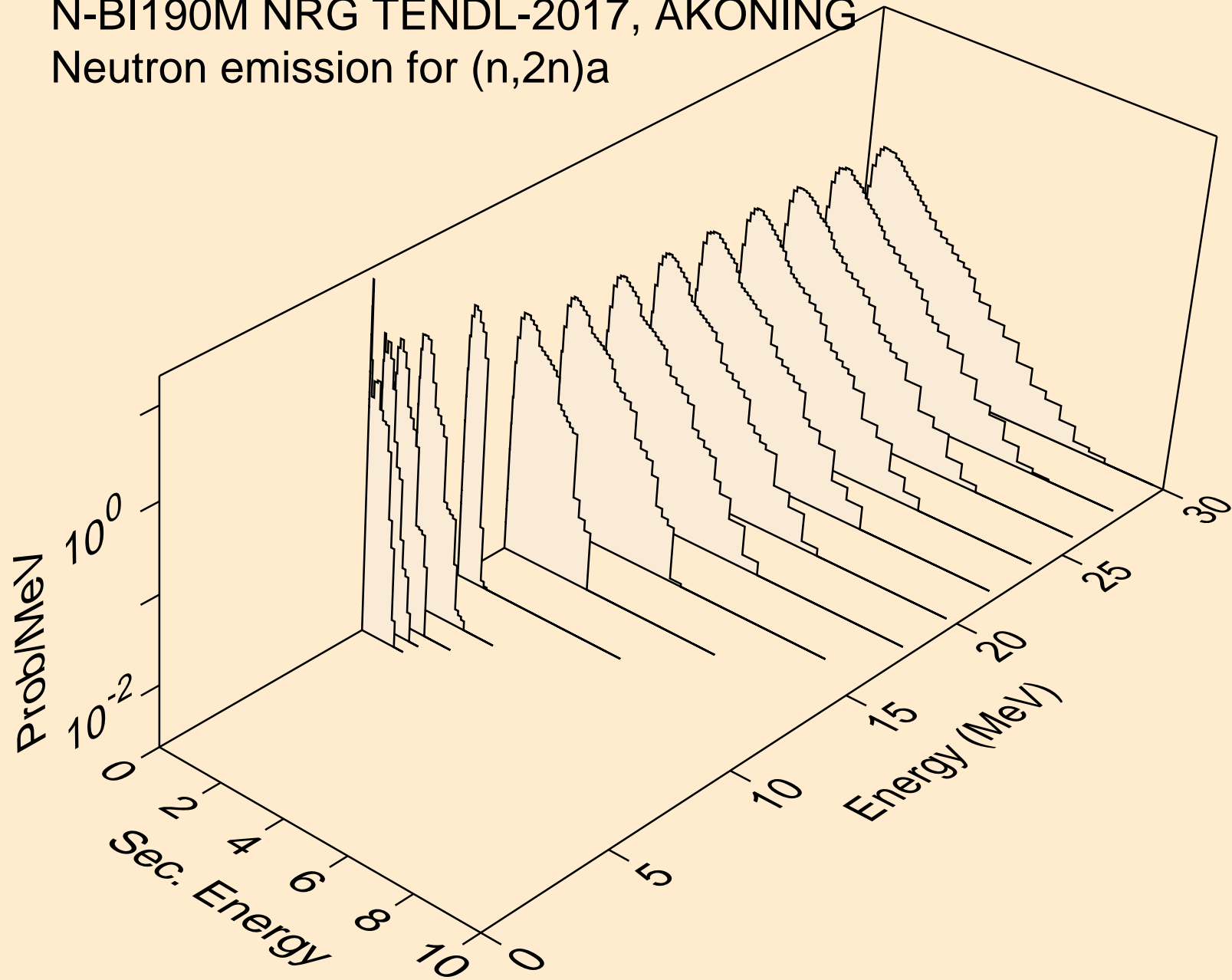




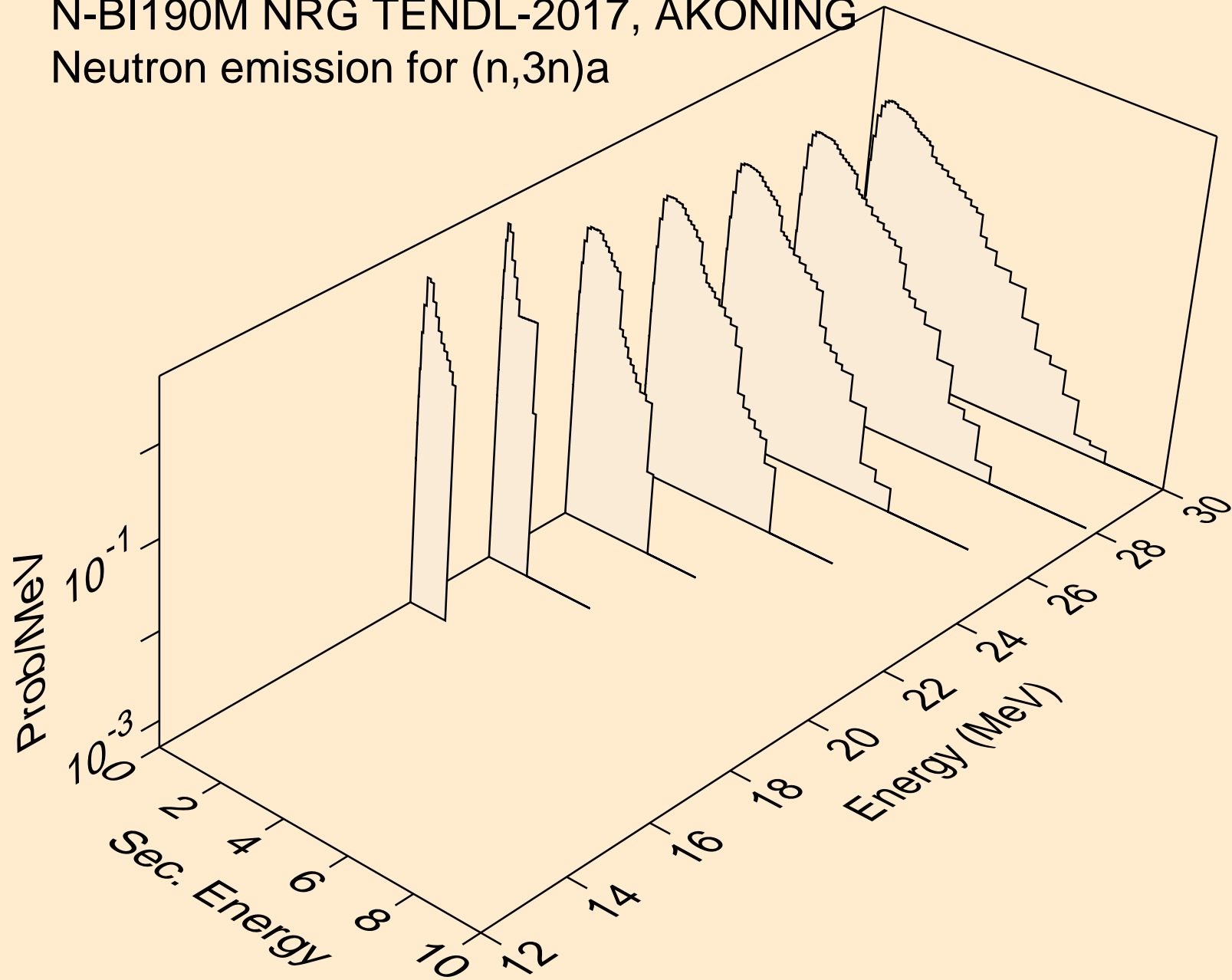
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Neutron emission for (n,n\*)3a



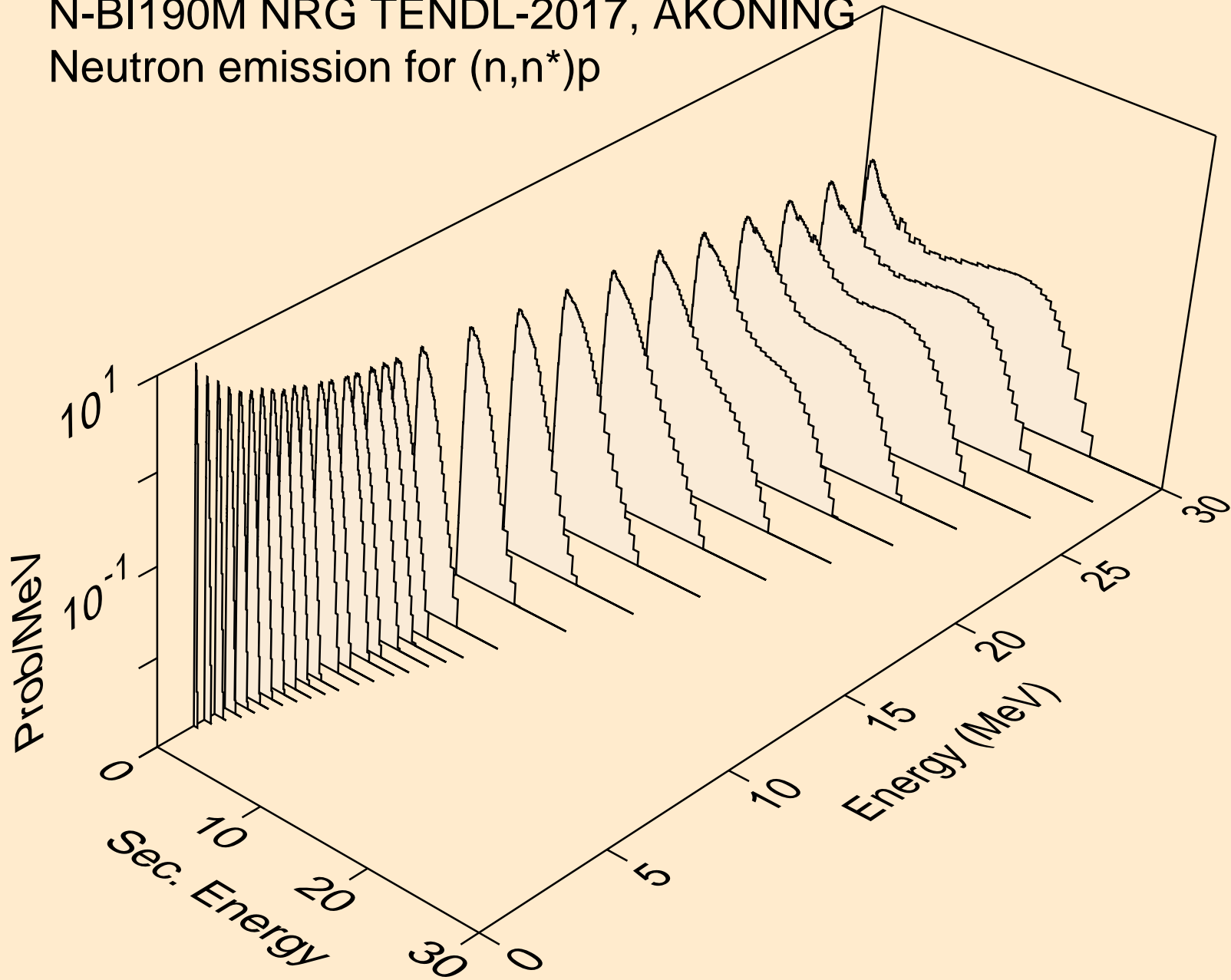
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Neutron emission for (n,2n)a



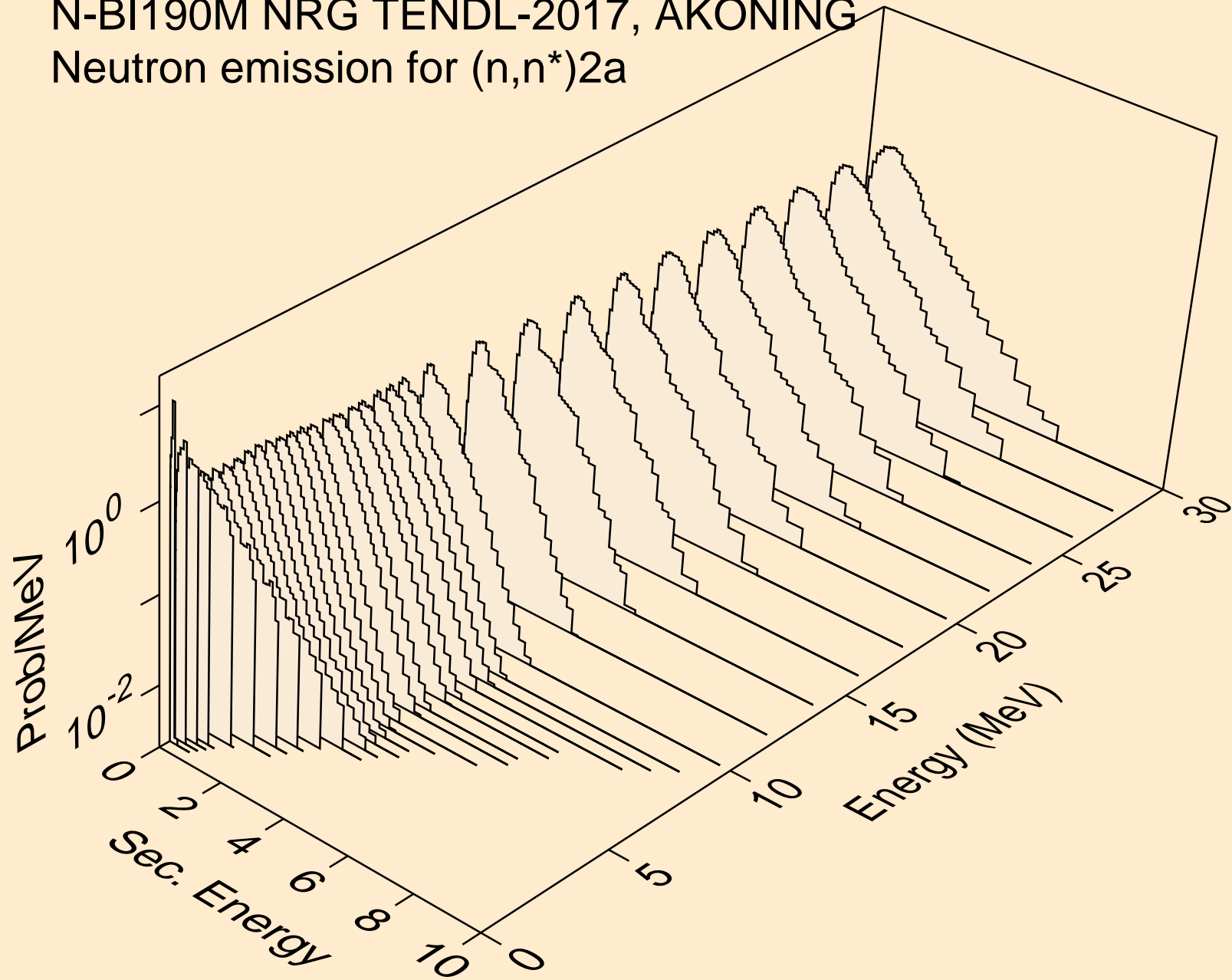
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Neutron emission for (n,3n)a



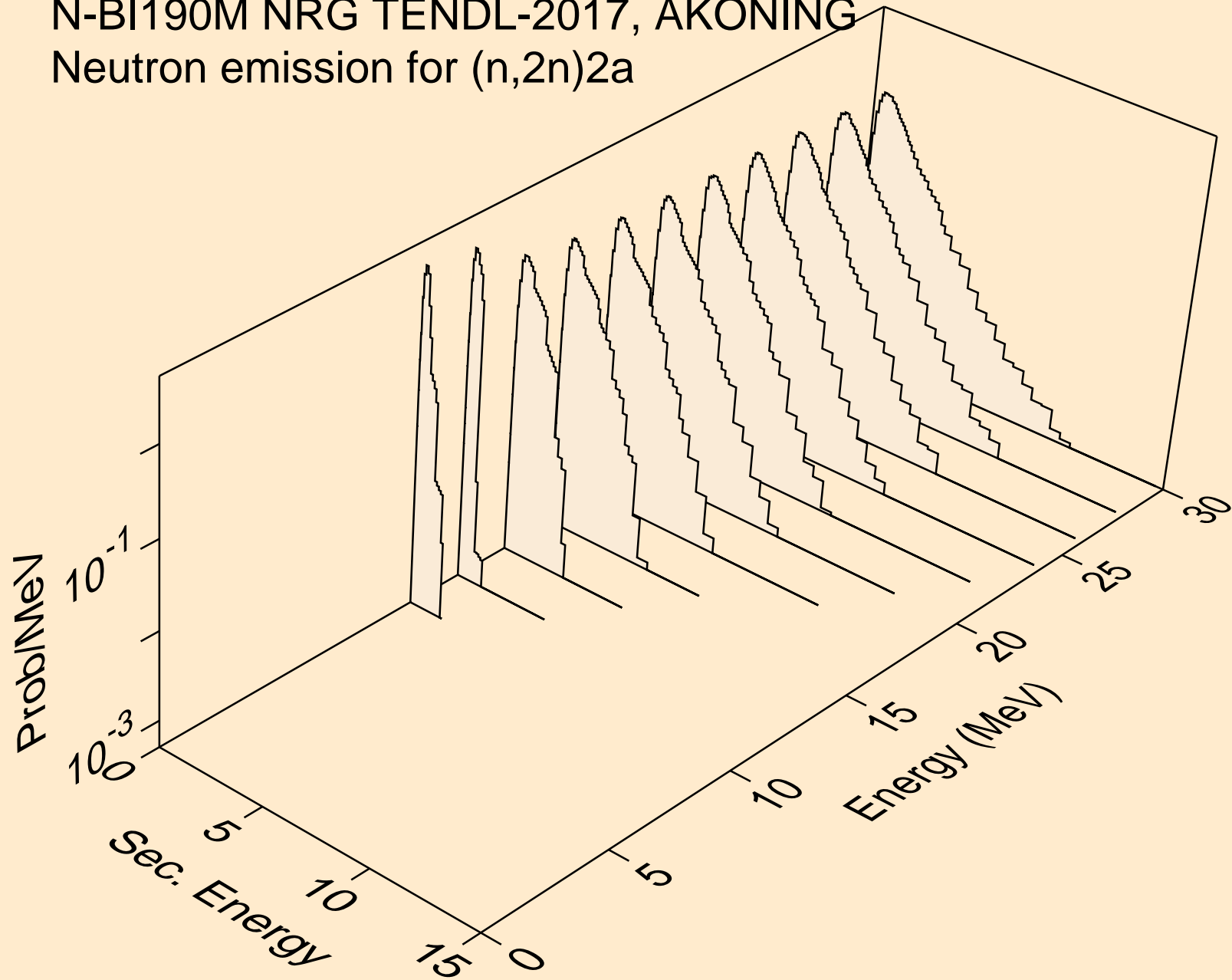
N-BI190M NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*)p



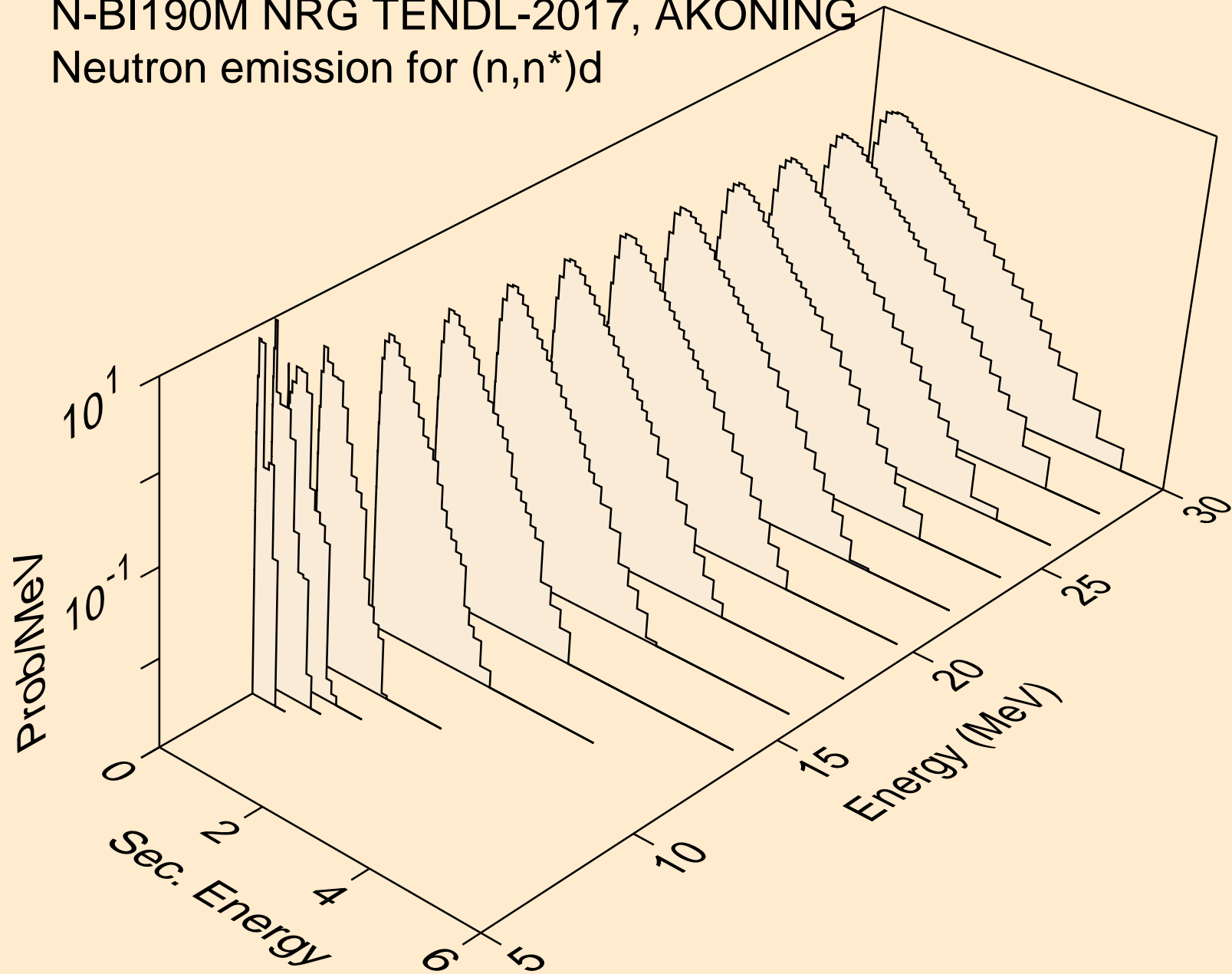
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Neutron emission for (n,n\*)2a



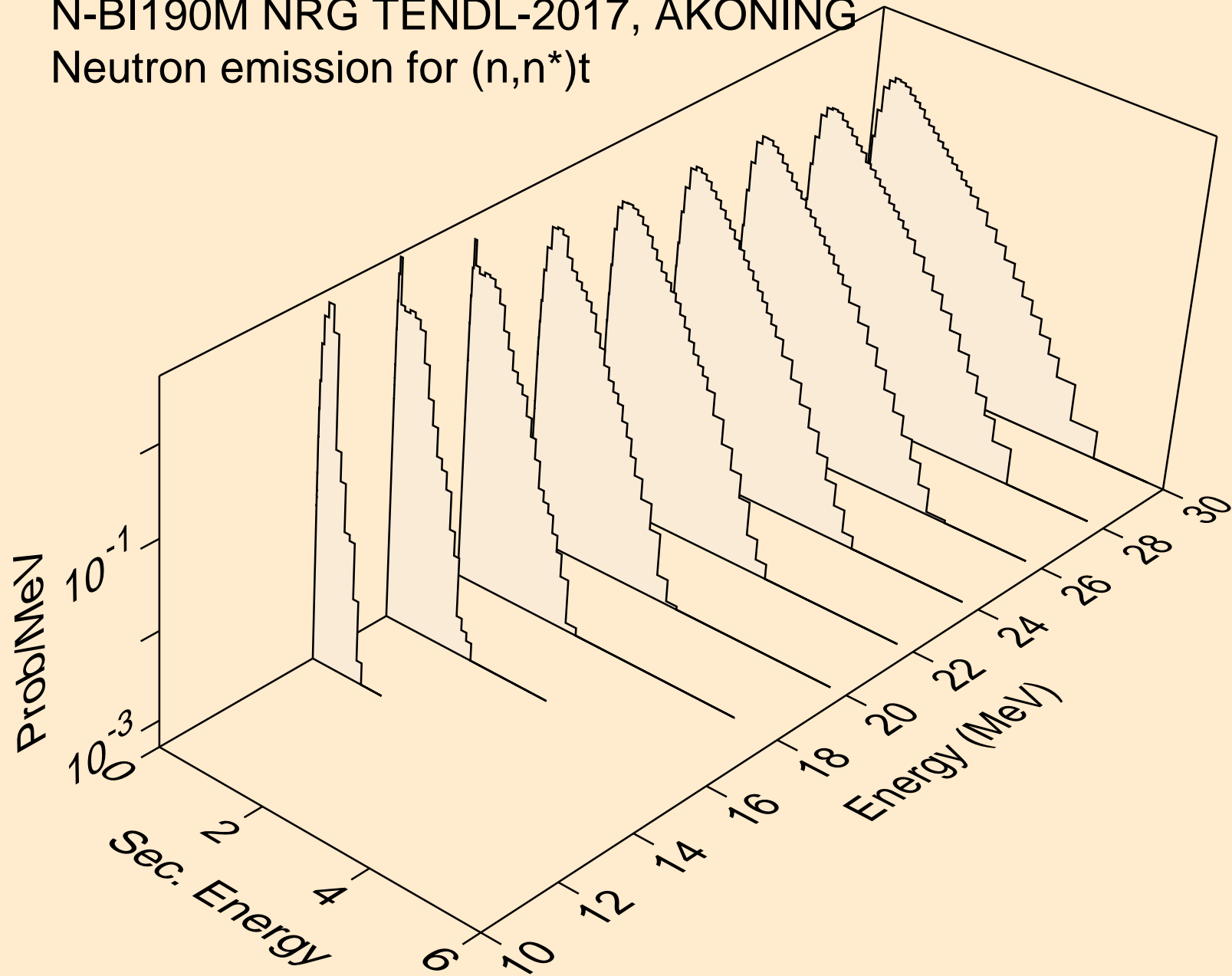
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Neutron emission for (n,2n)2a



N-BI190M NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*)d

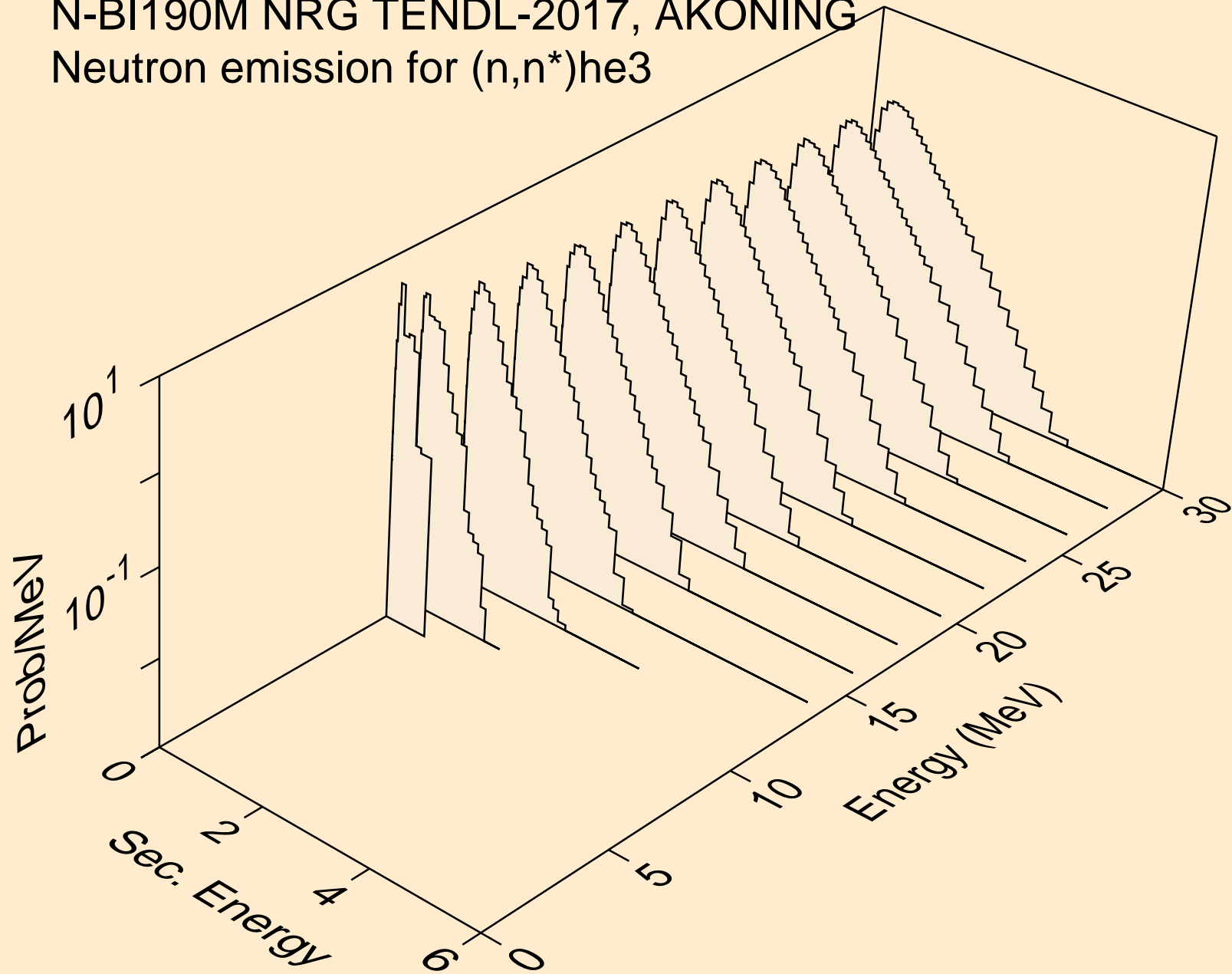


N-BI190M NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*)t

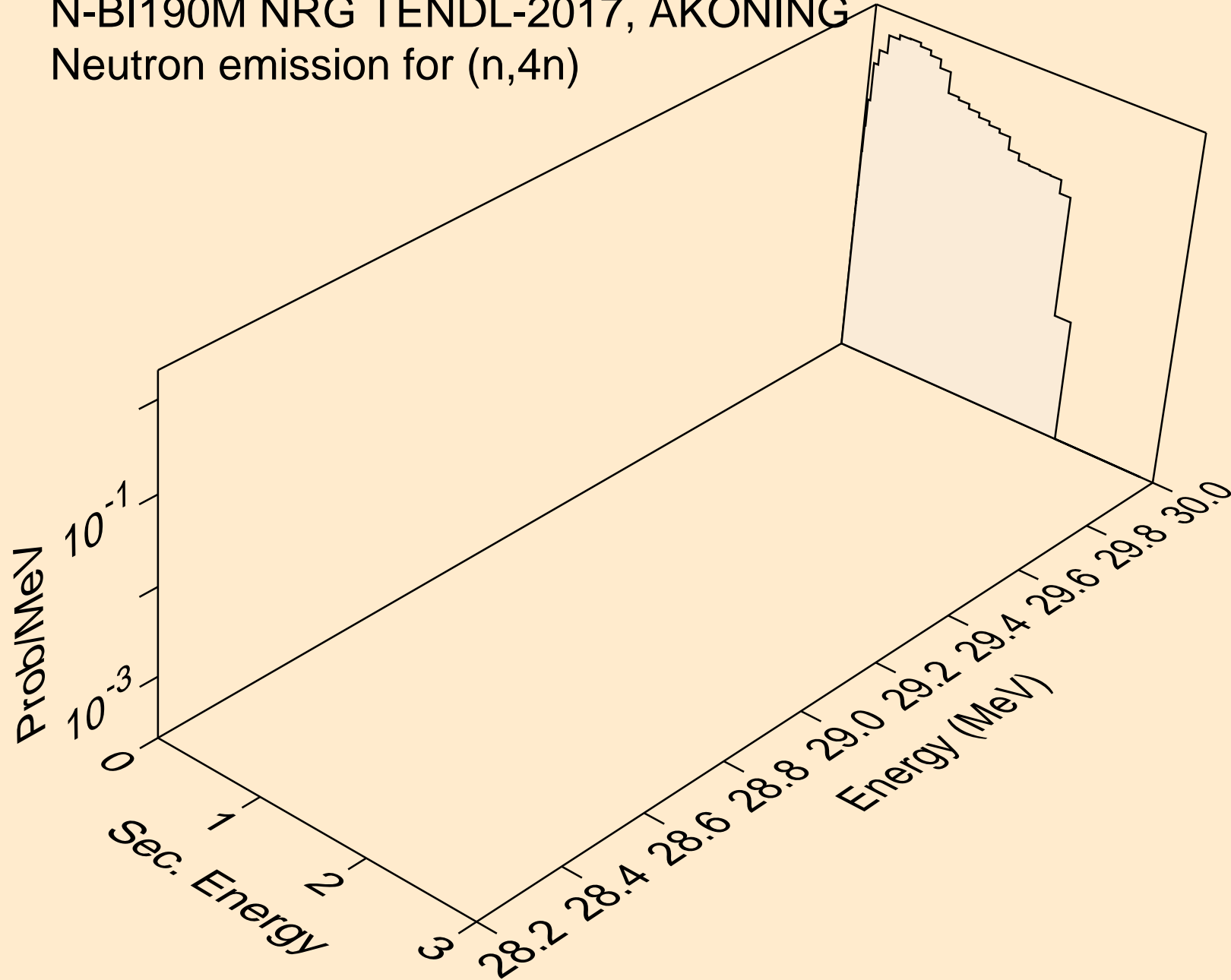




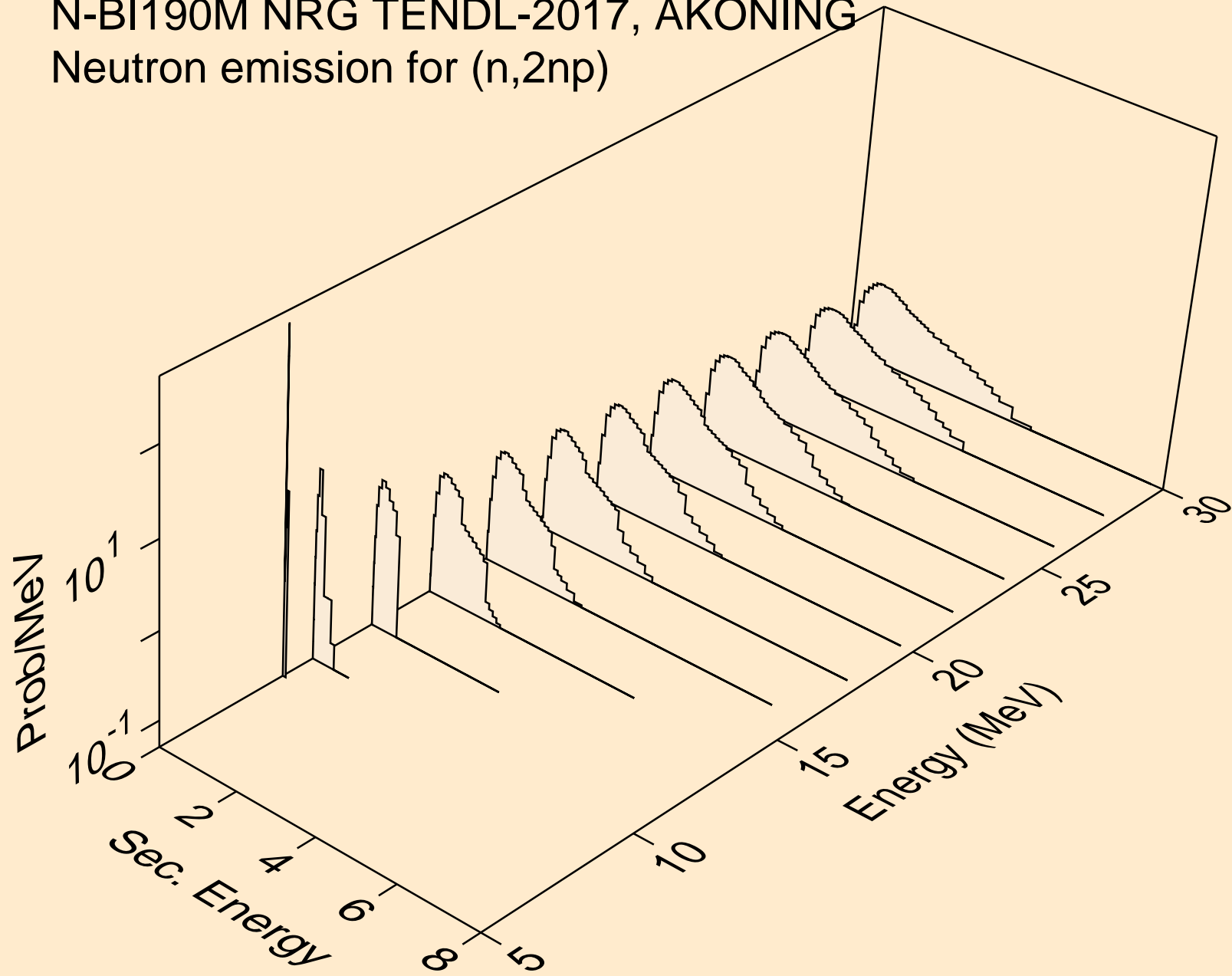
N-BI190M NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*)he3



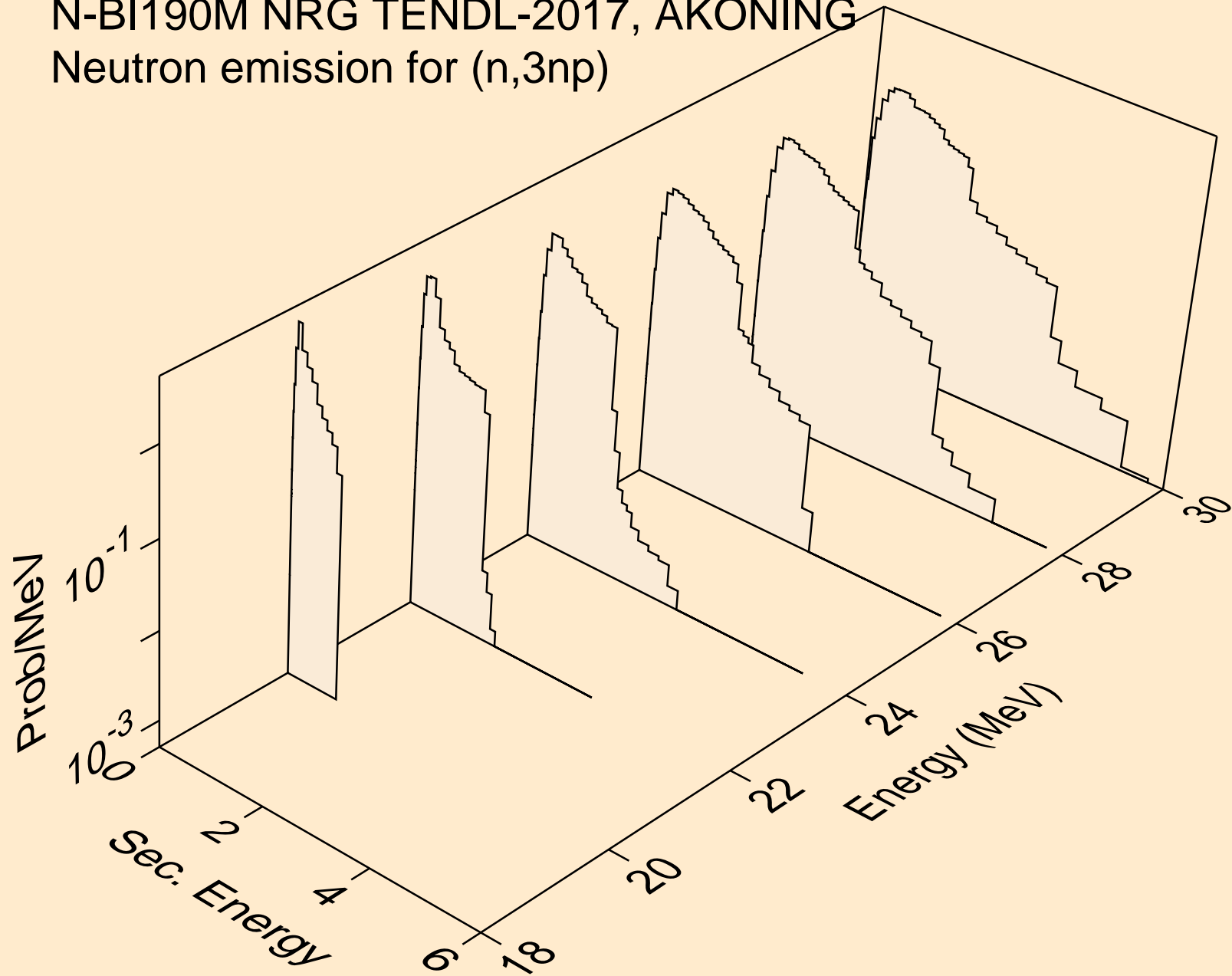
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Neutron emission for (n,4n)



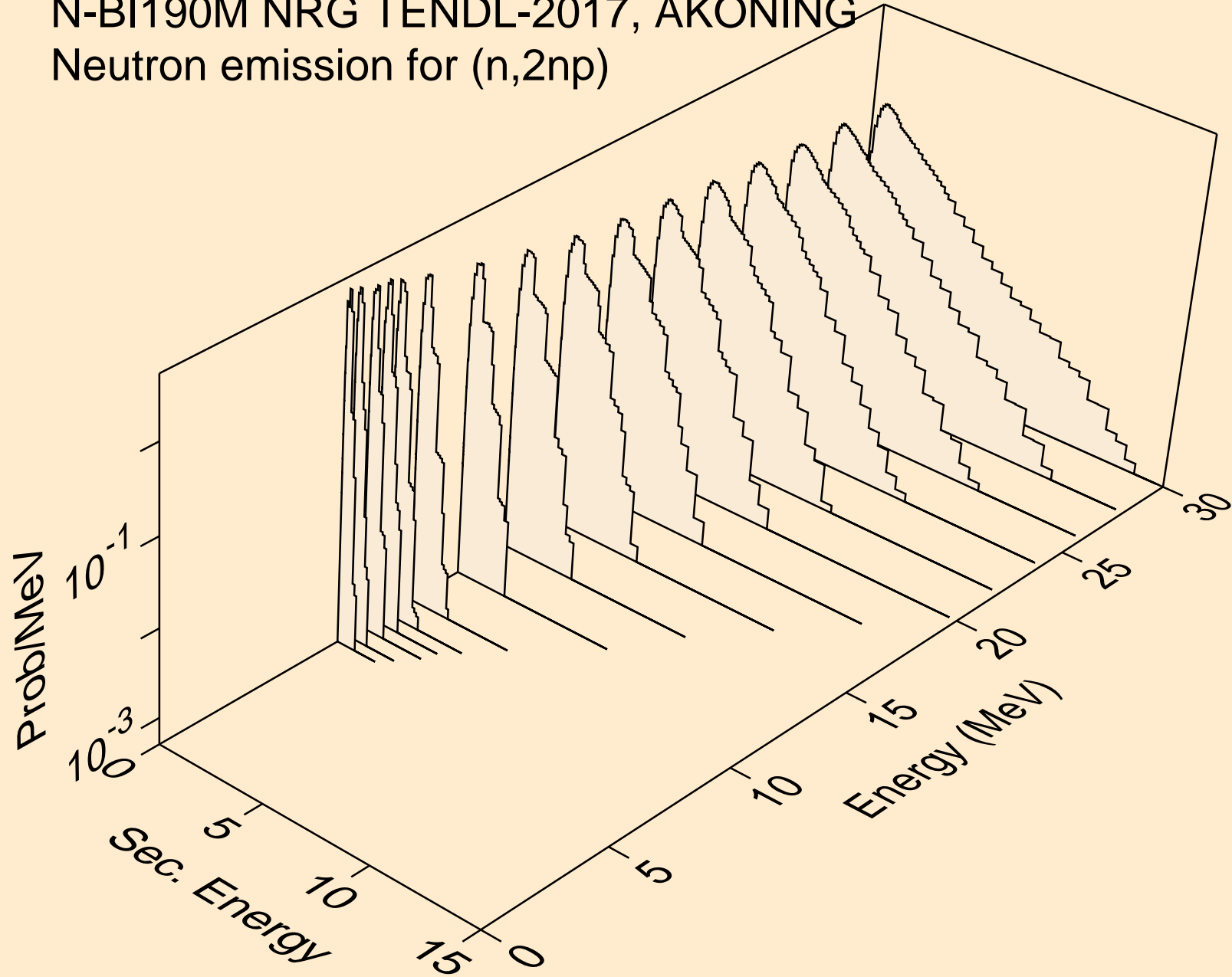
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Neutron emission for (n,2np)



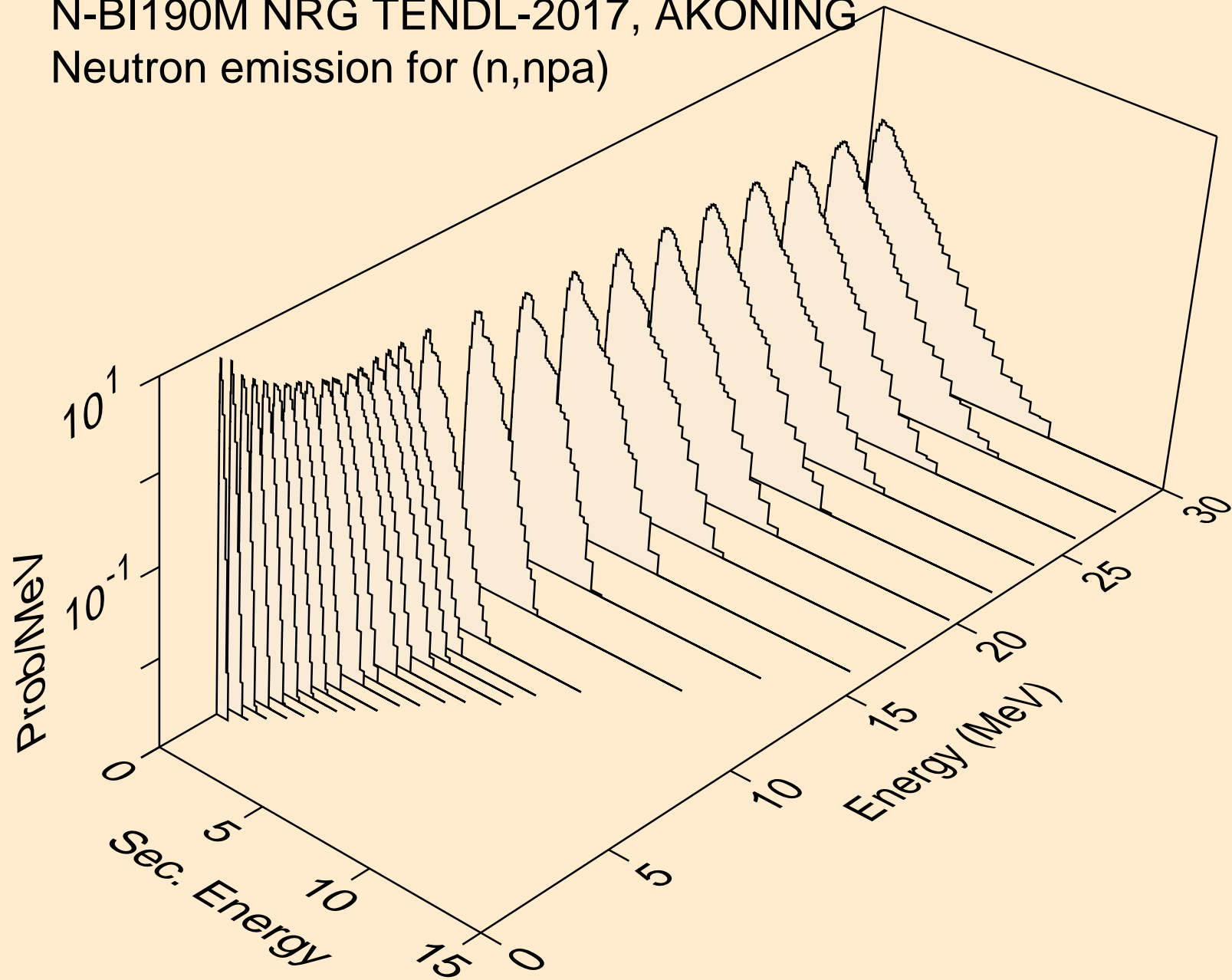
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Neutron emission for (n,3np)



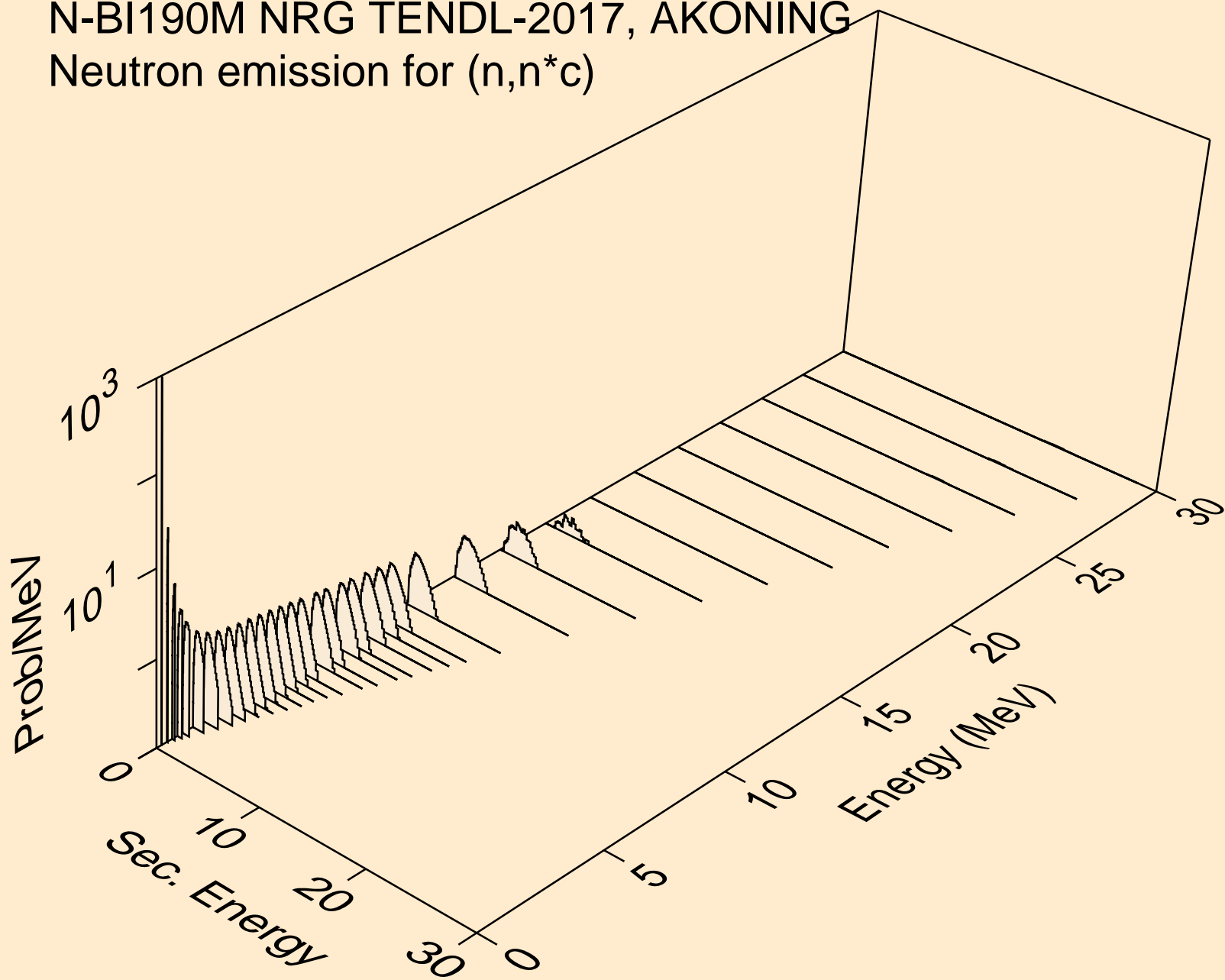
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Neutron emission for (n,2np)



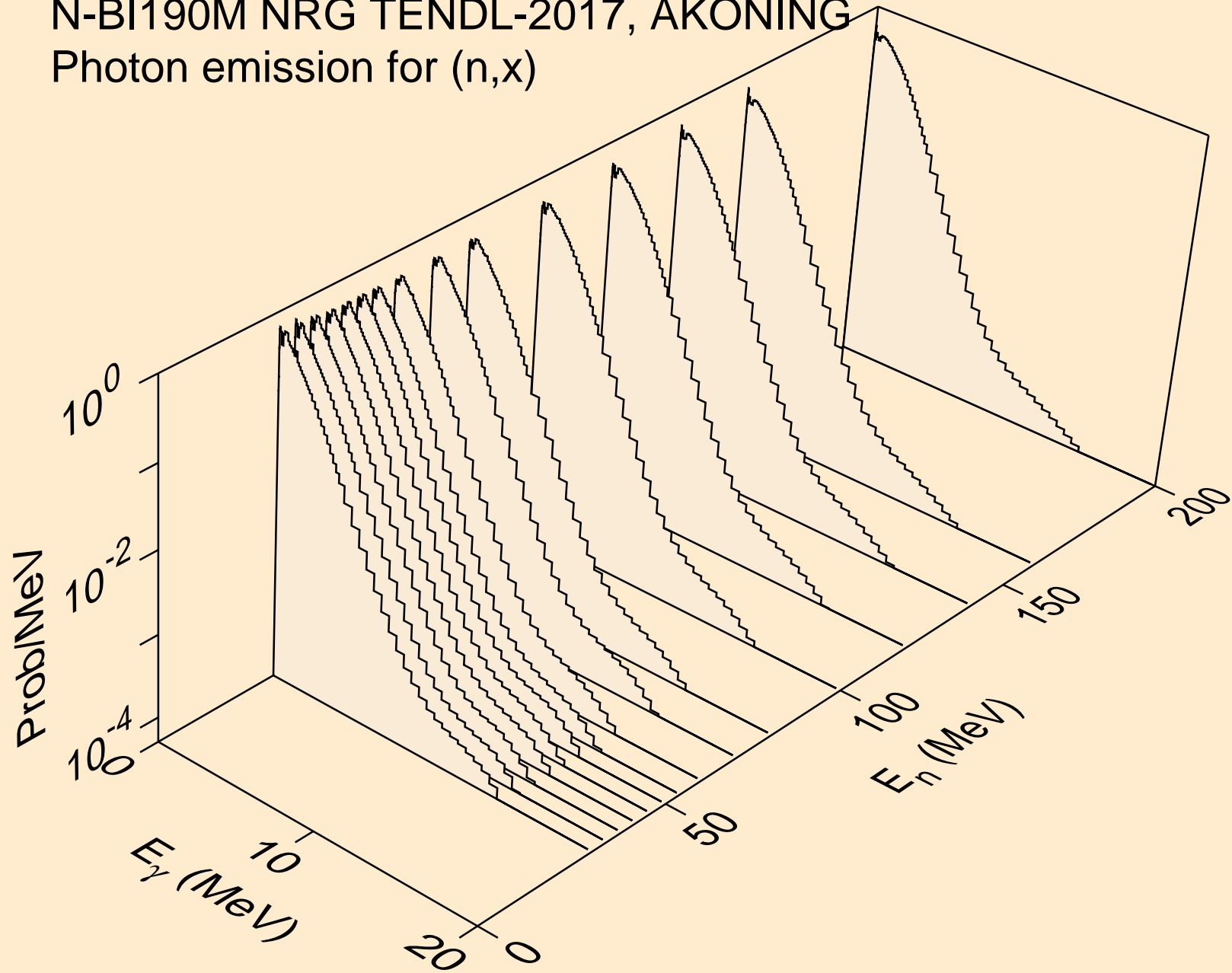
N-BI190M NRG TENDL-2017, AKONING  
Neutron emission for (n,npa)



N-BI190M NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*c)

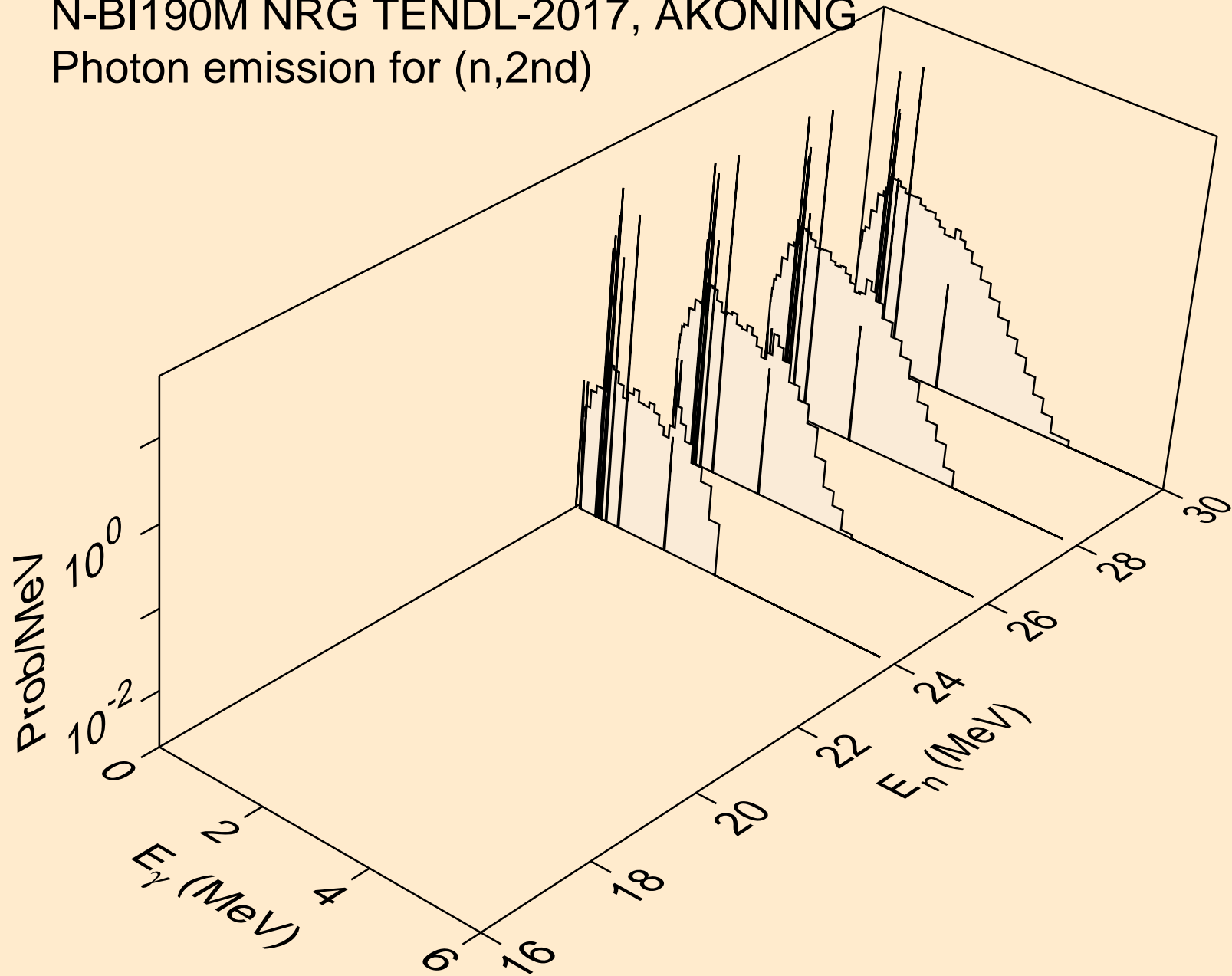


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Photon emission for (n,x)

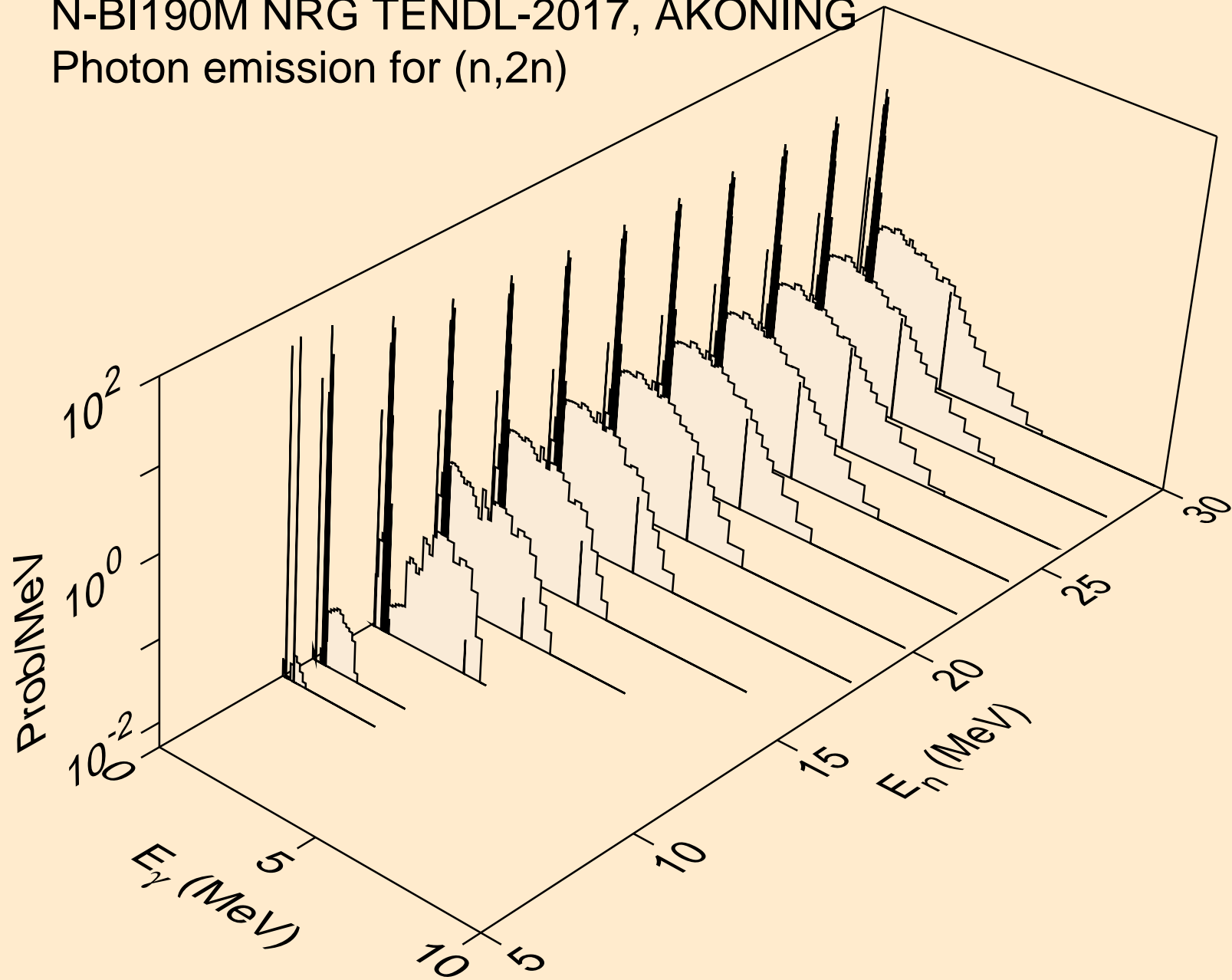




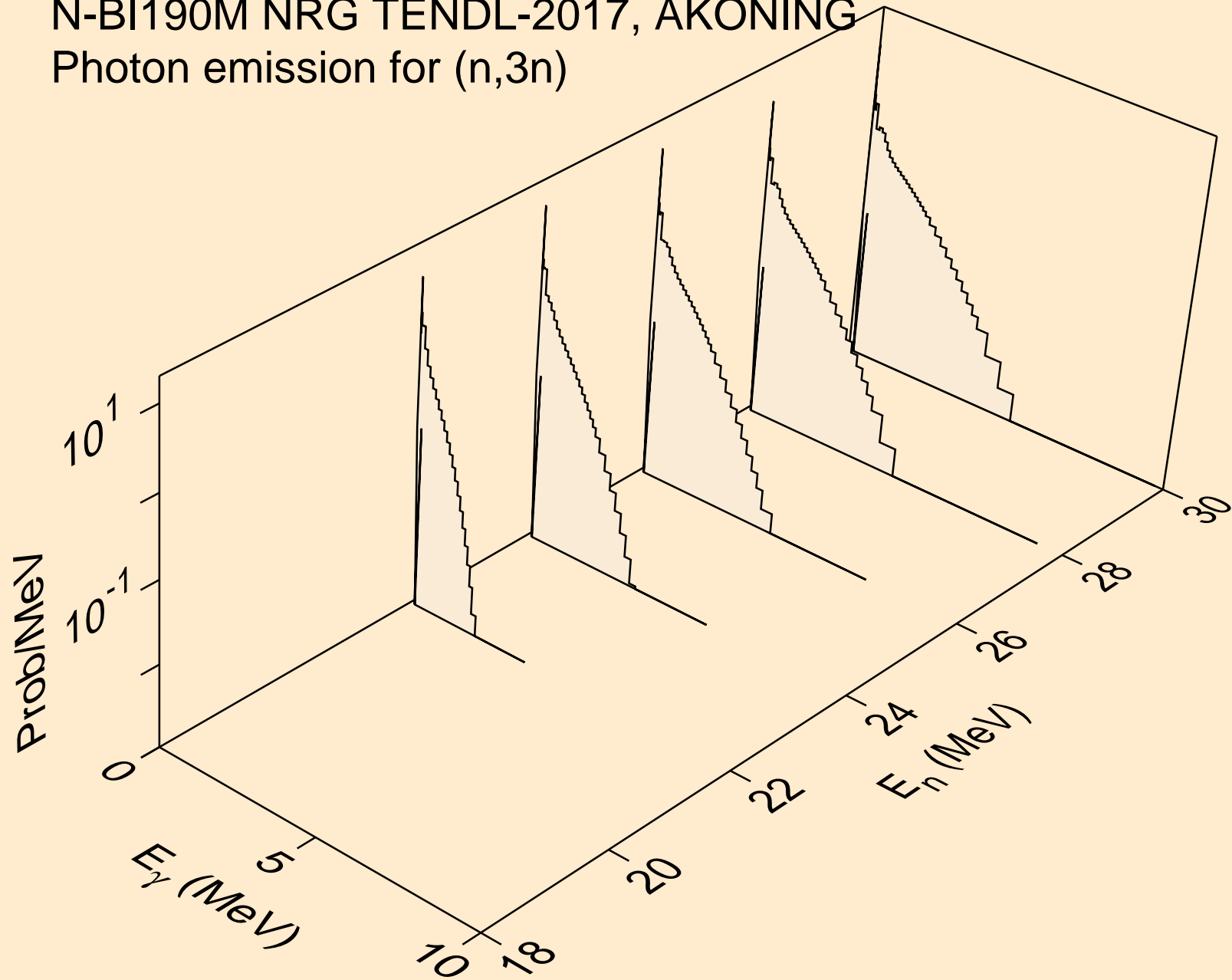
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Photon emission for (n,2nd)



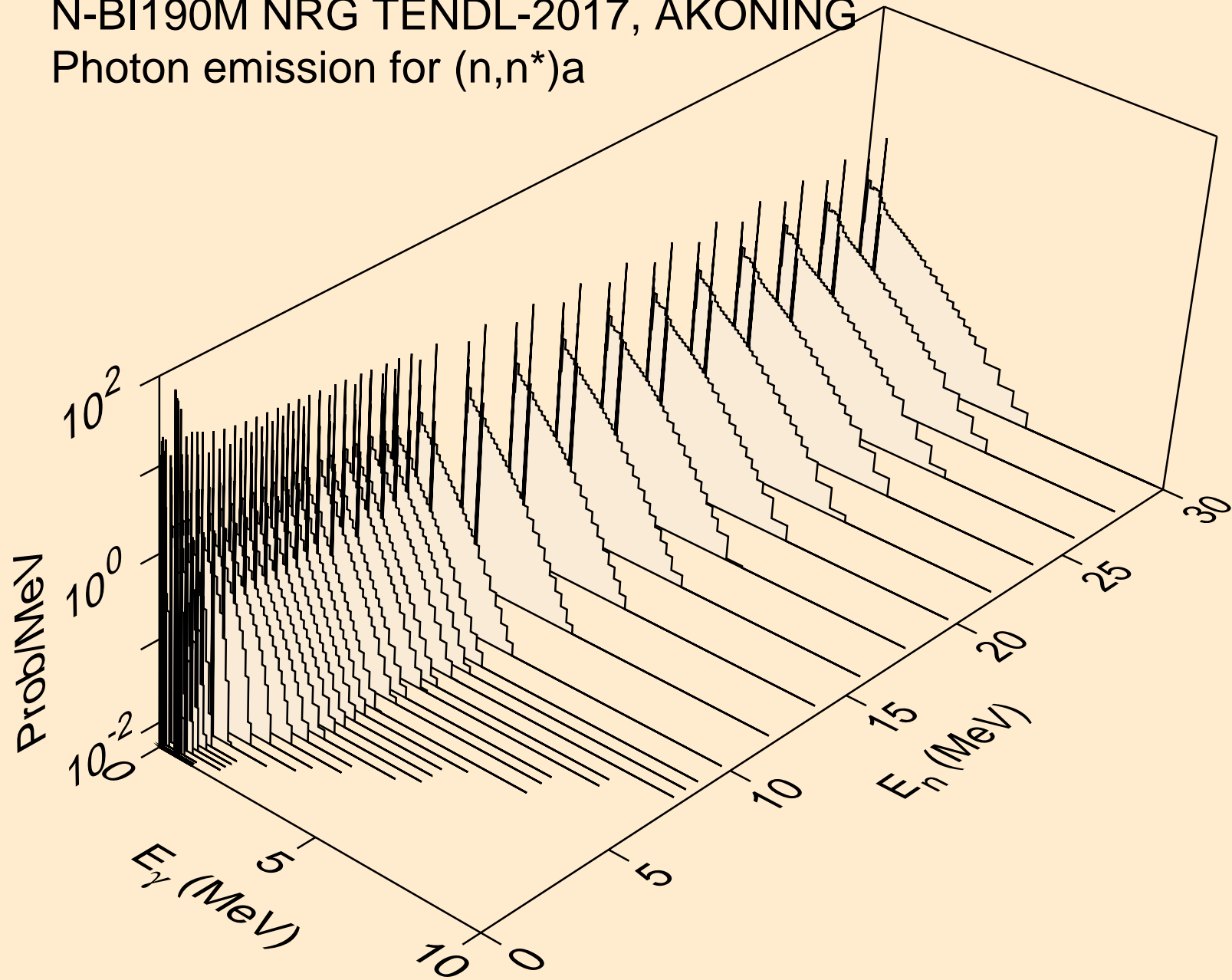
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Photon emission for (n,2n)



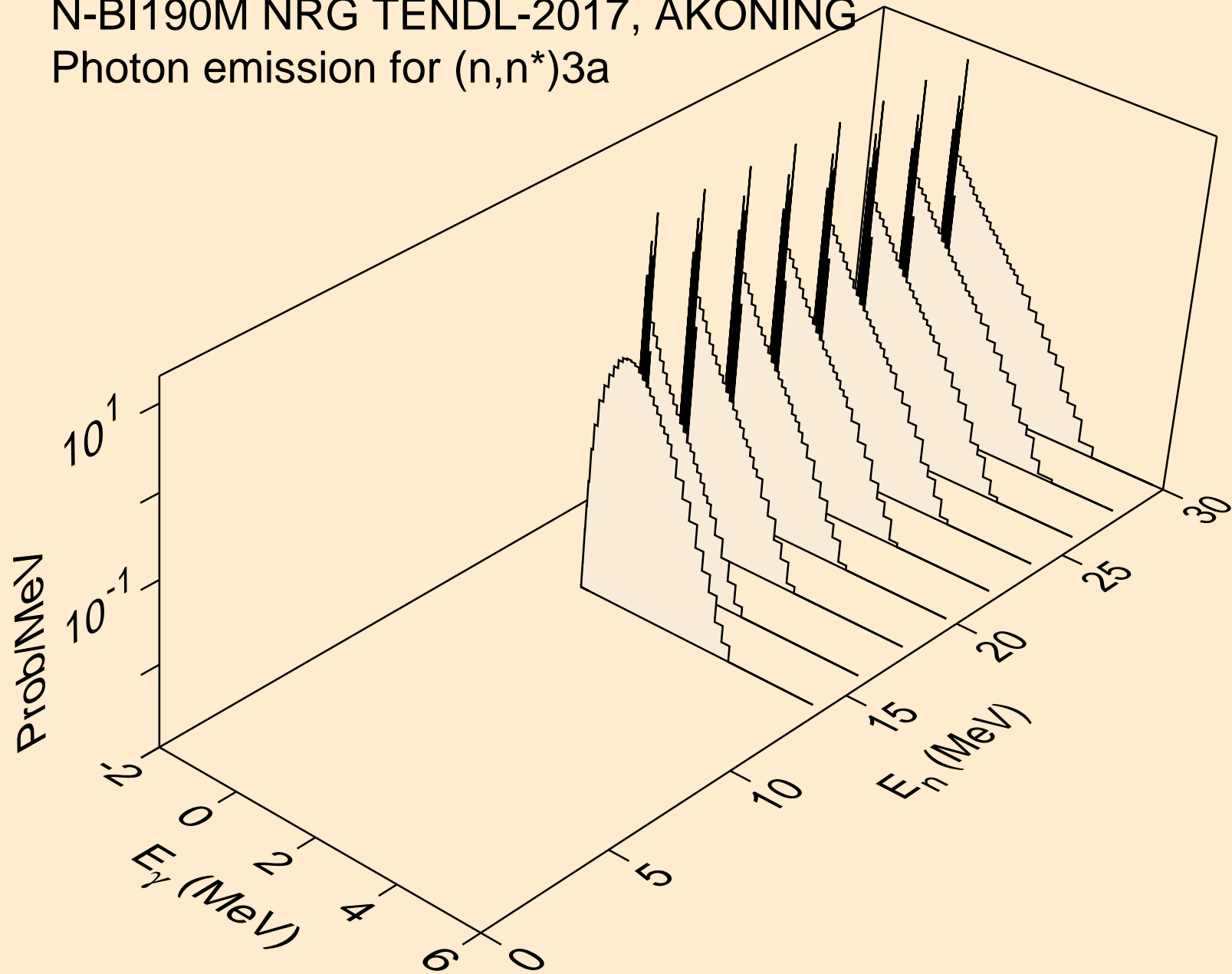
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Photon emission for (n,3n)



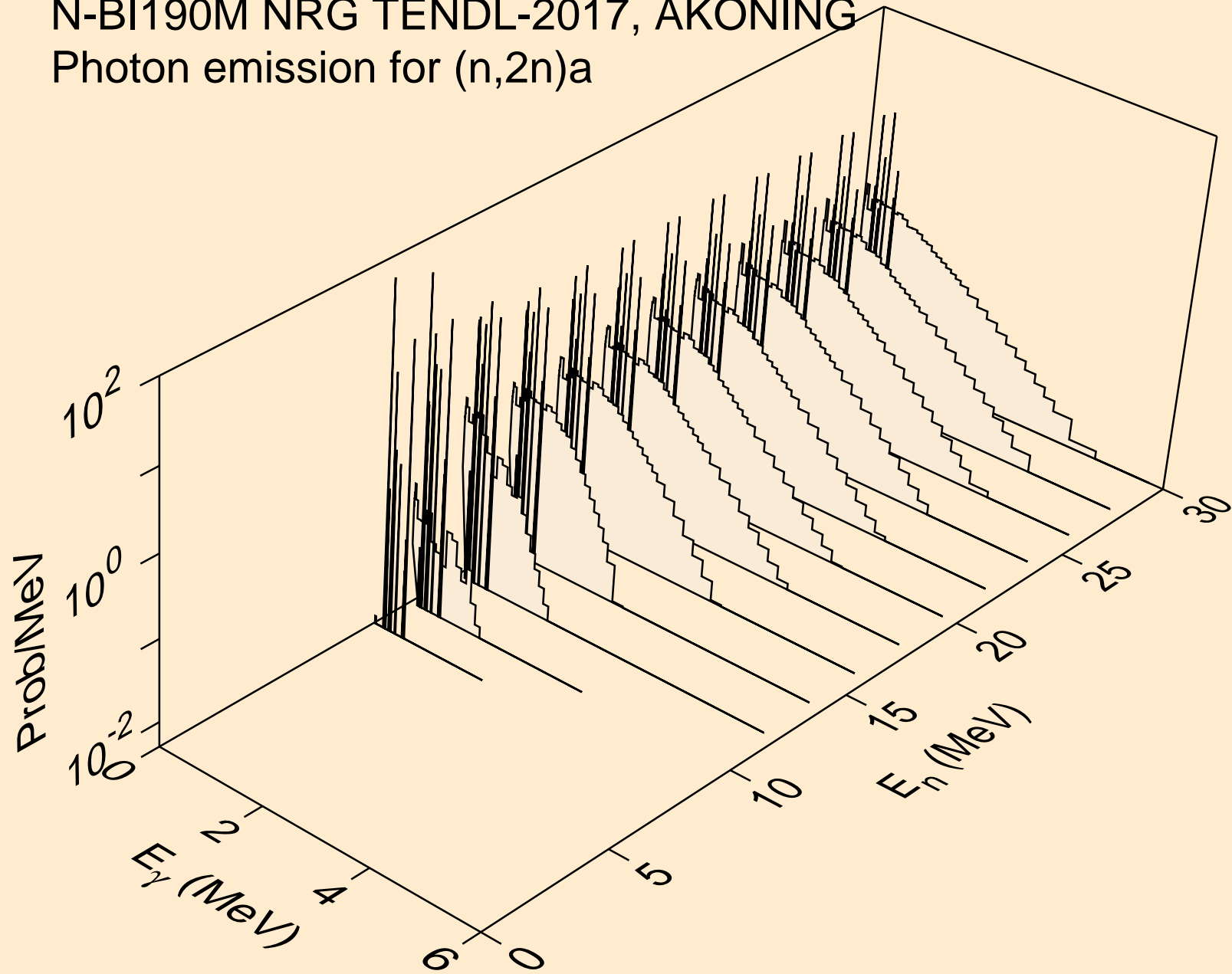
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Photon emission for (n,n\*)a



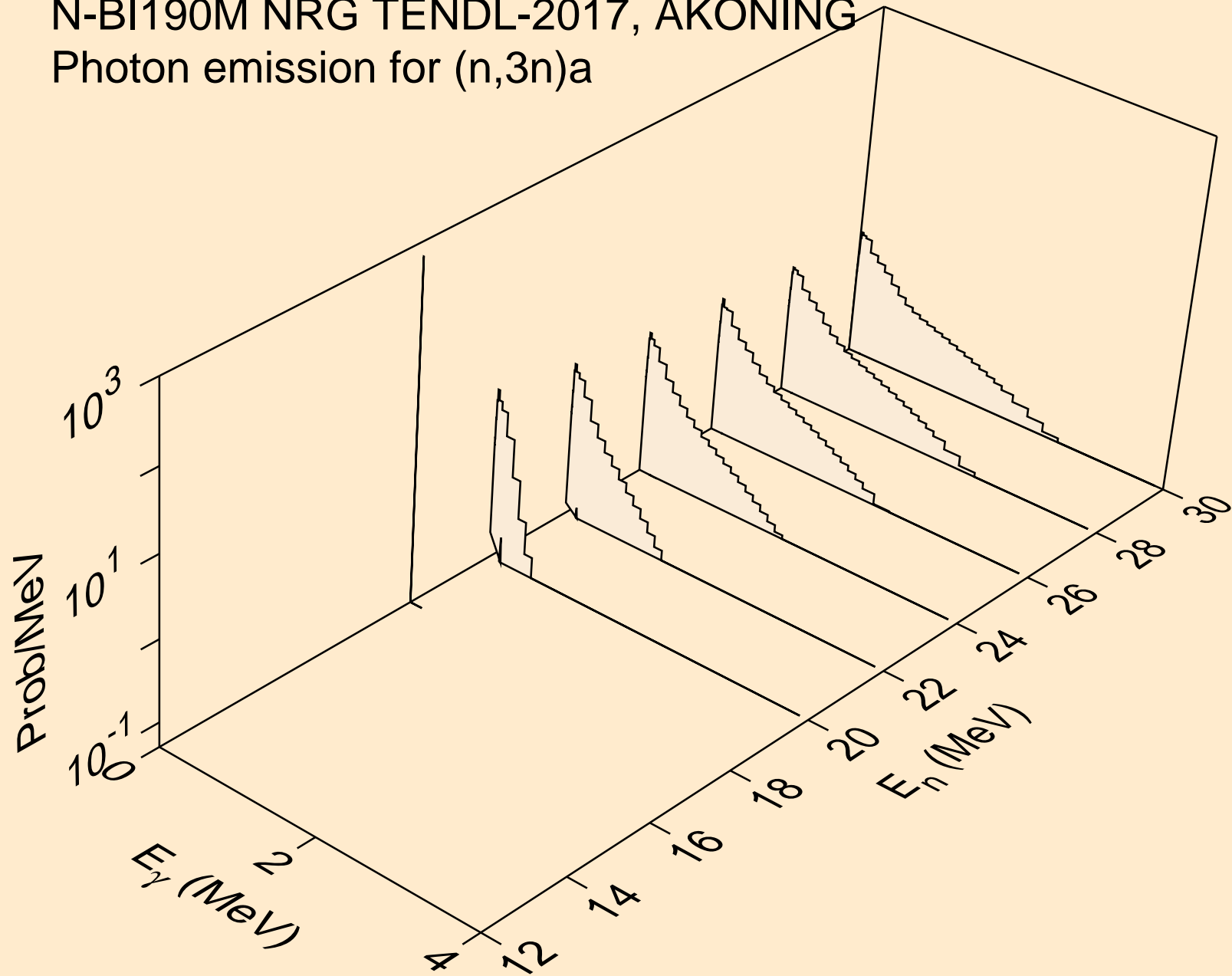
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Photon emission for (n,n\*)3a



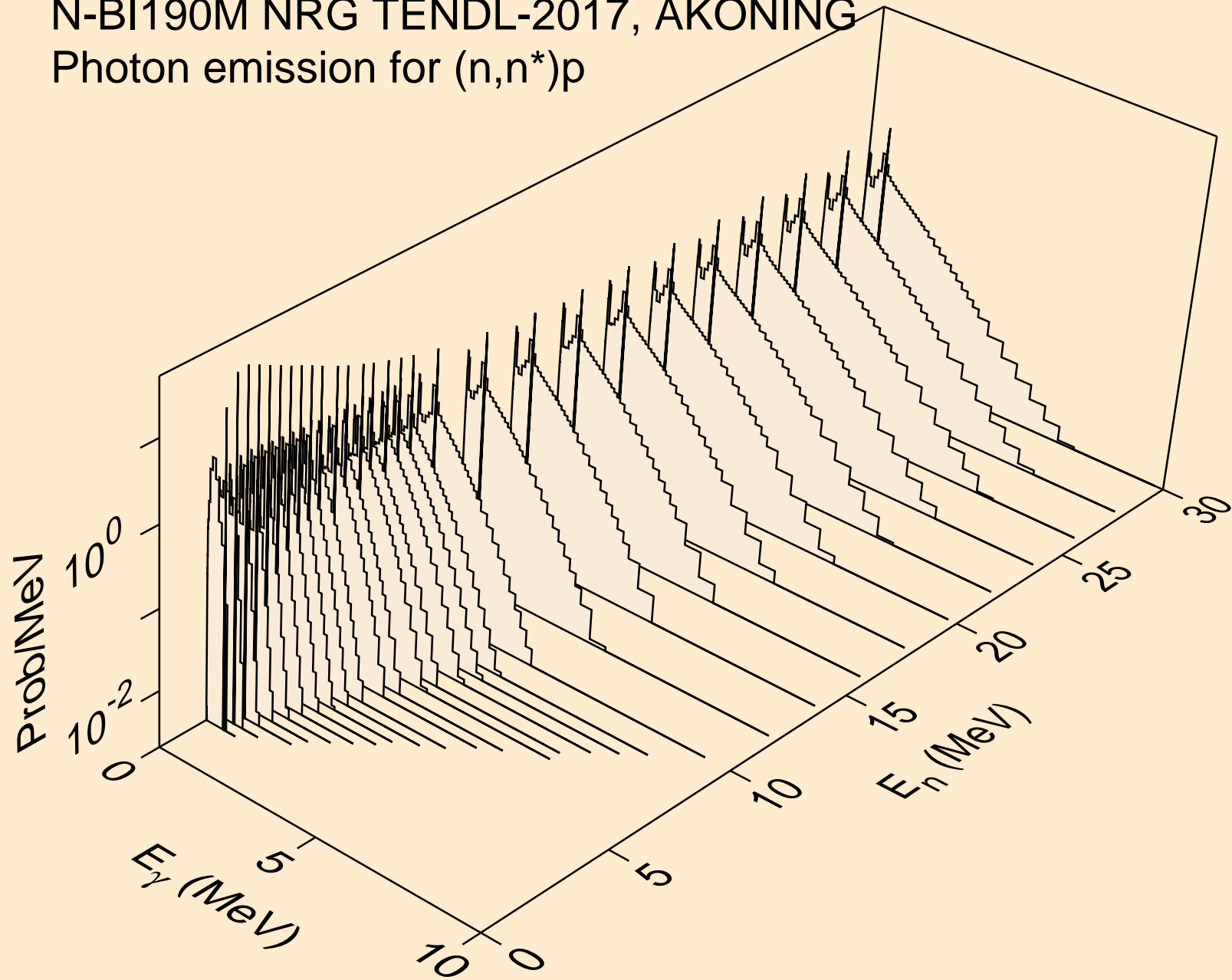
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Photon emission for (n,2n)a



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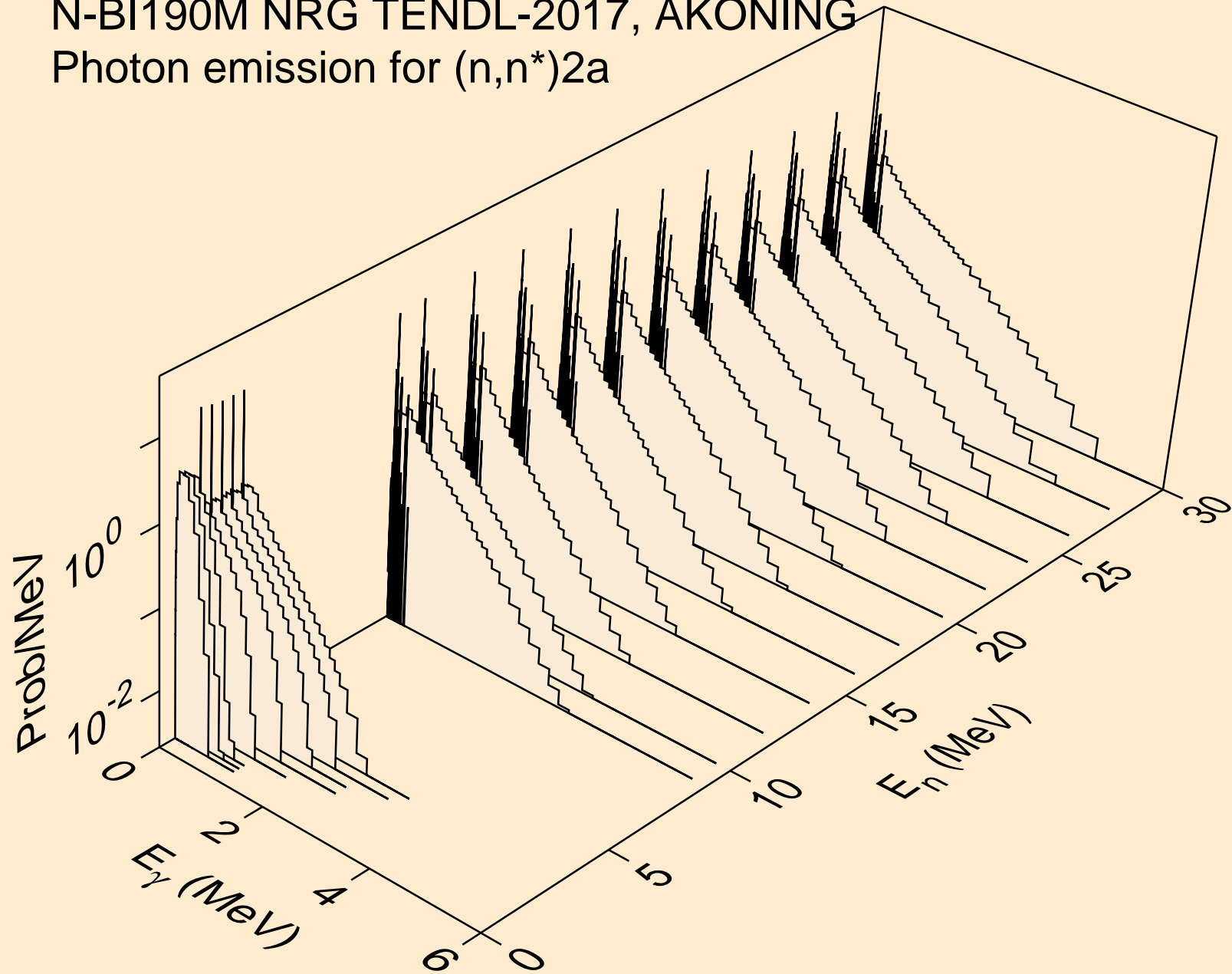


N-BI190M NRG TENDL-2017, AKONING  
Photon emission for (n,n\*)p

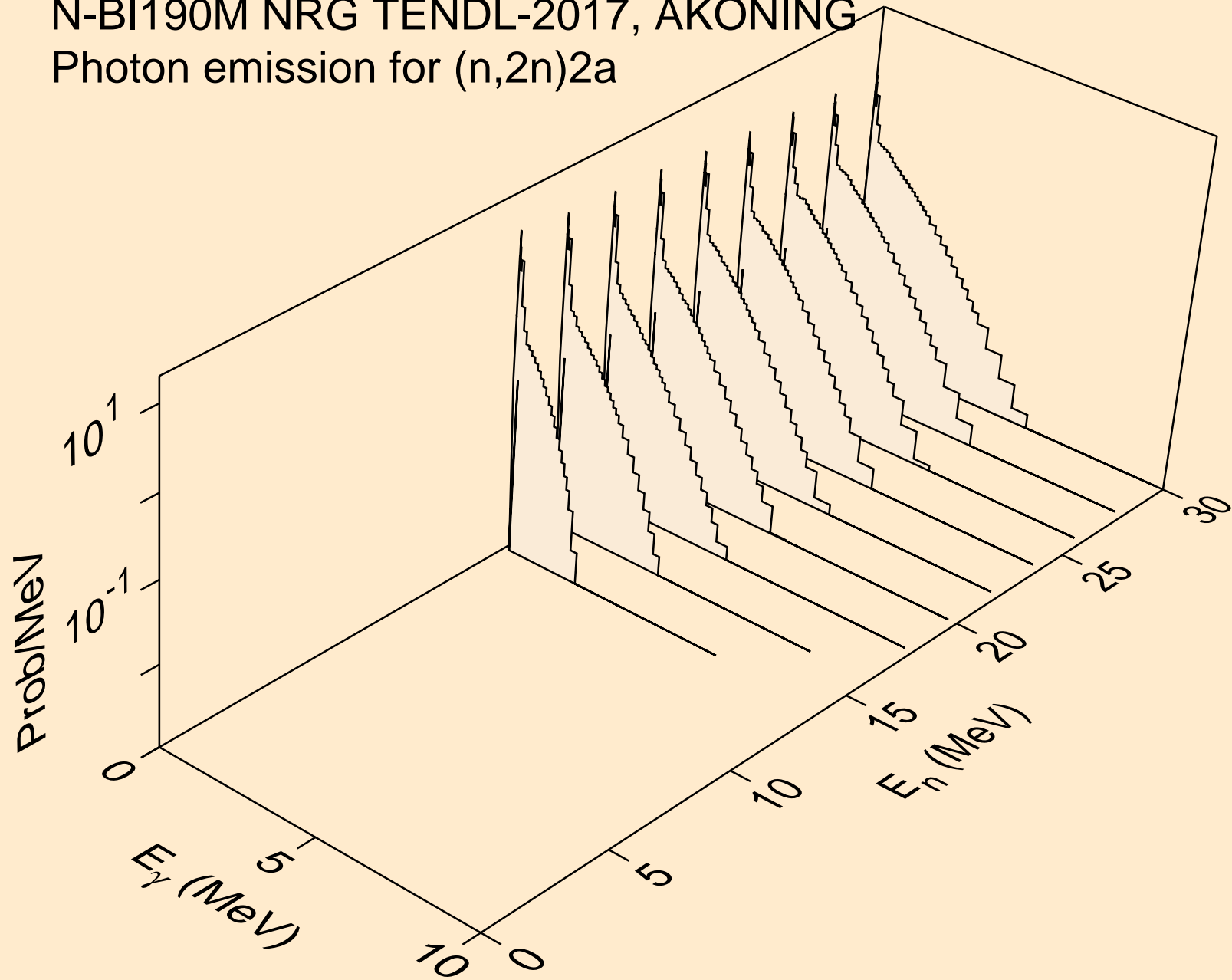




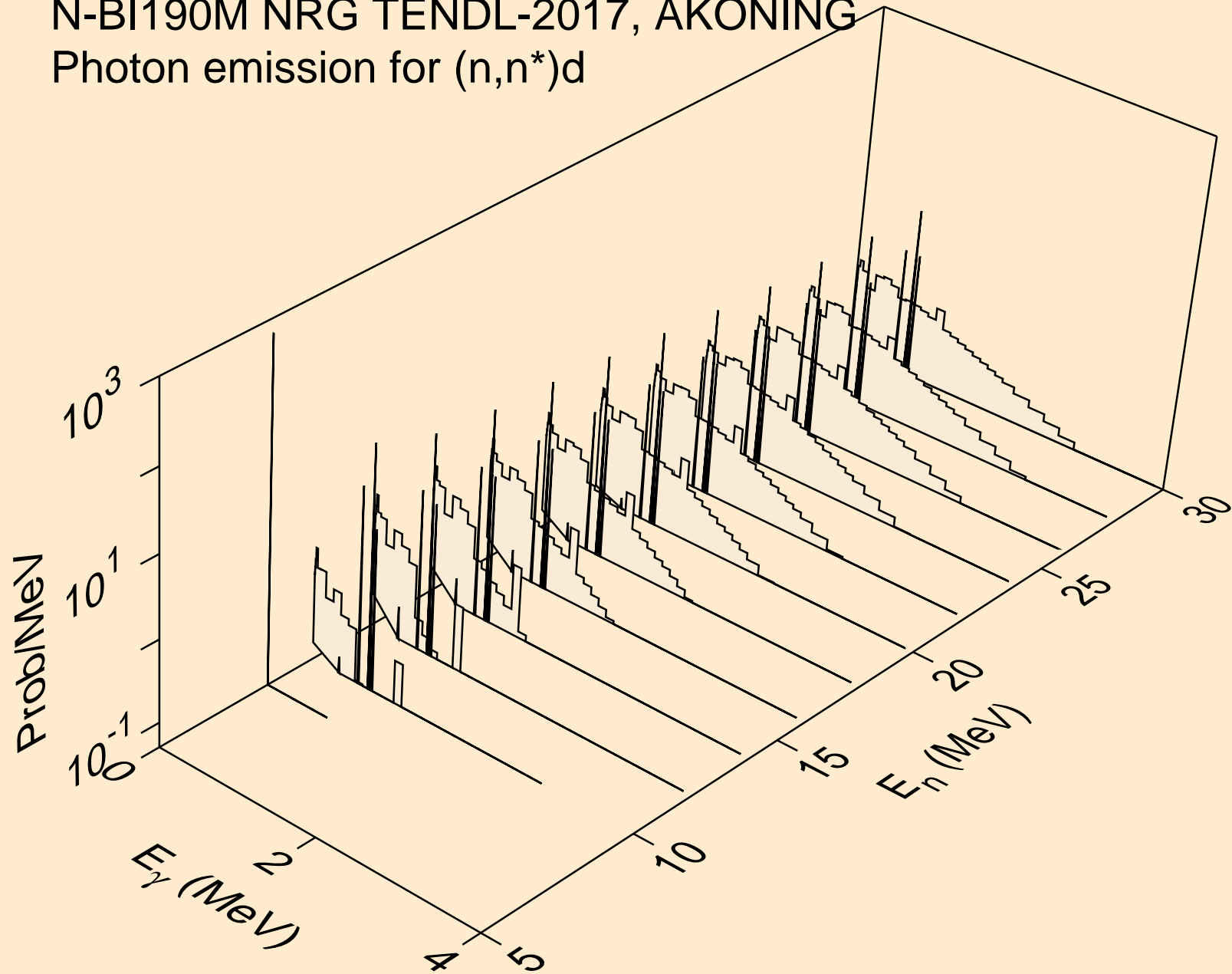
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Photon emission for (n,n\*)2a



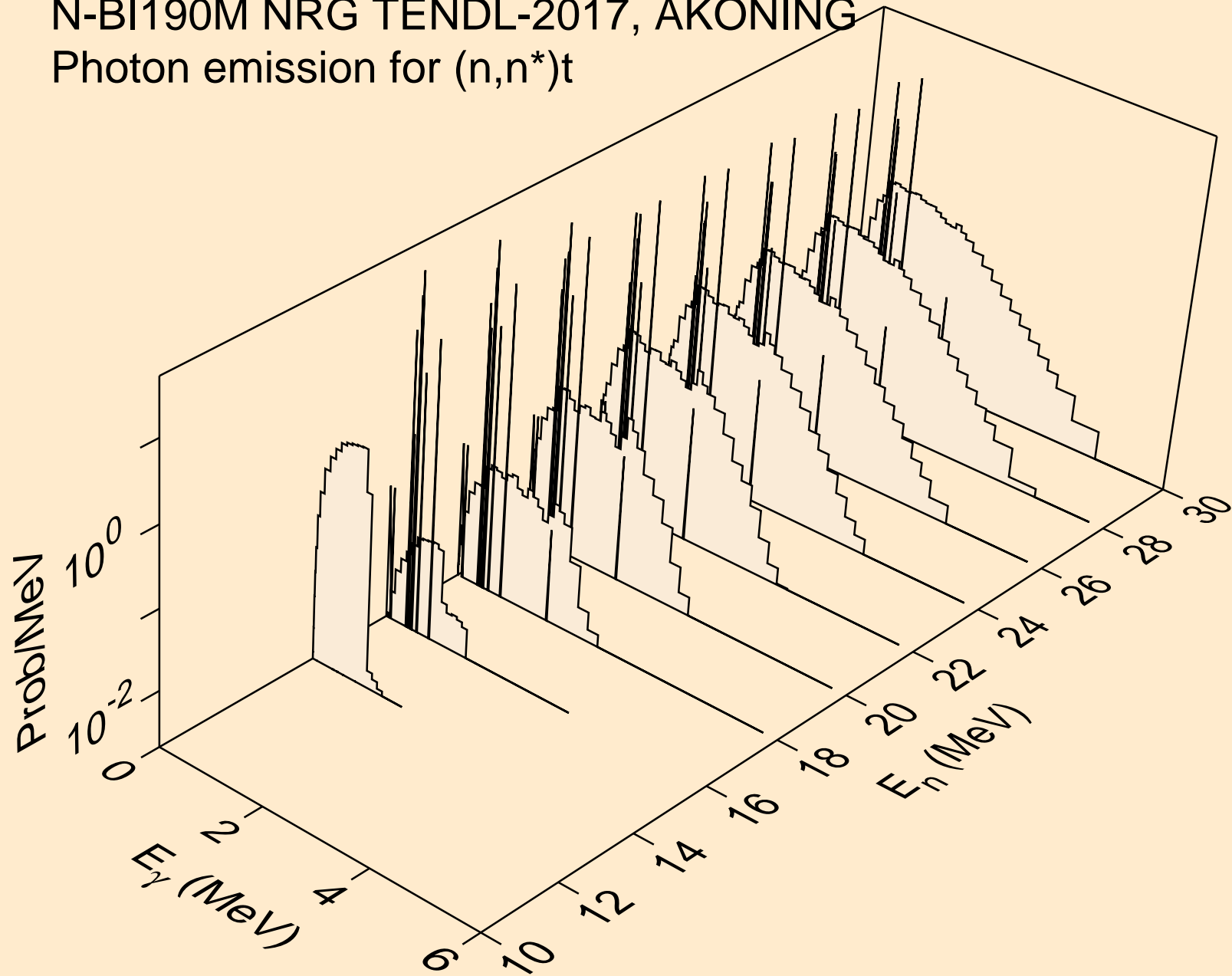
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Photon emission for (n,2n)2a



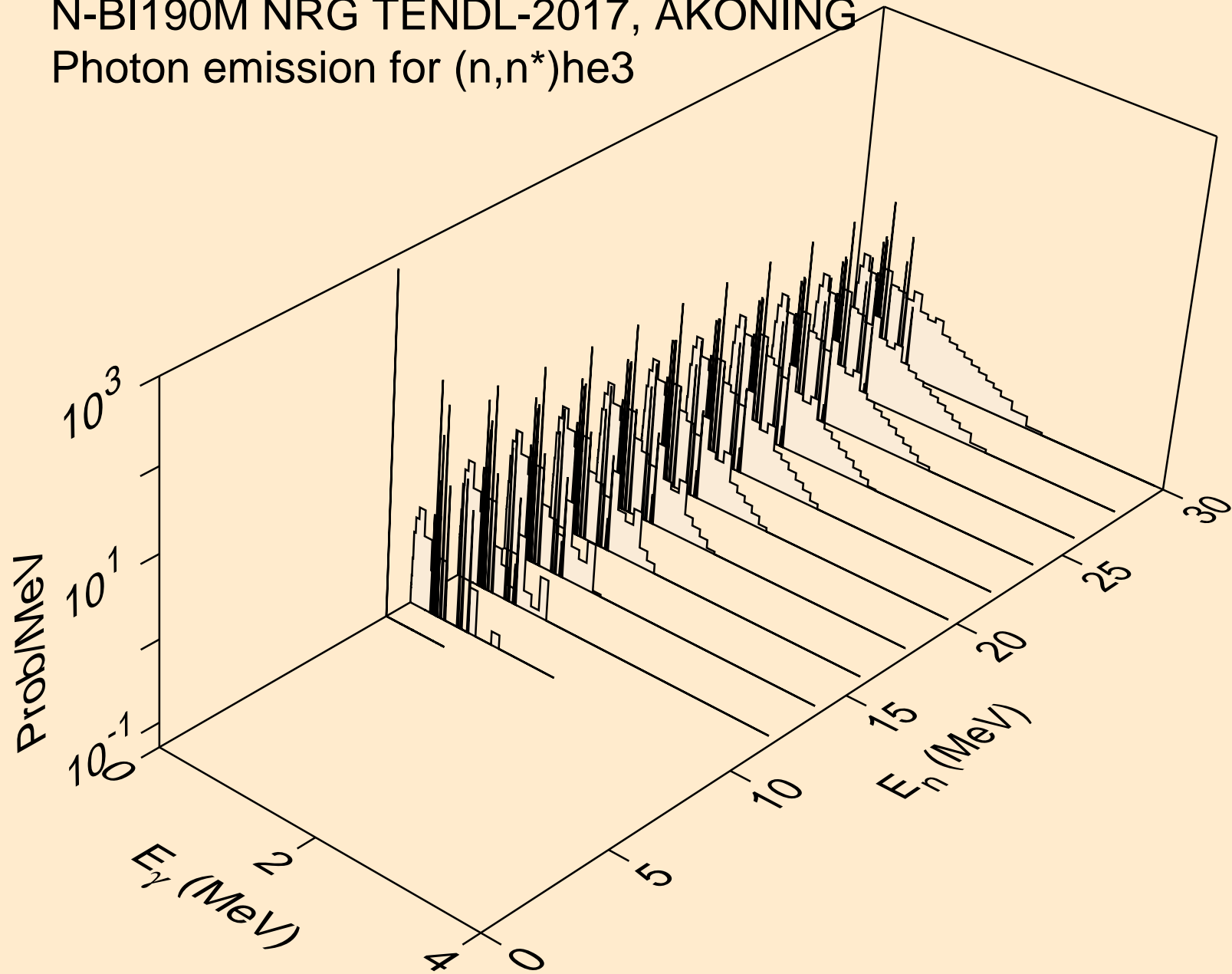
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Photon emission for (n,n\*)d



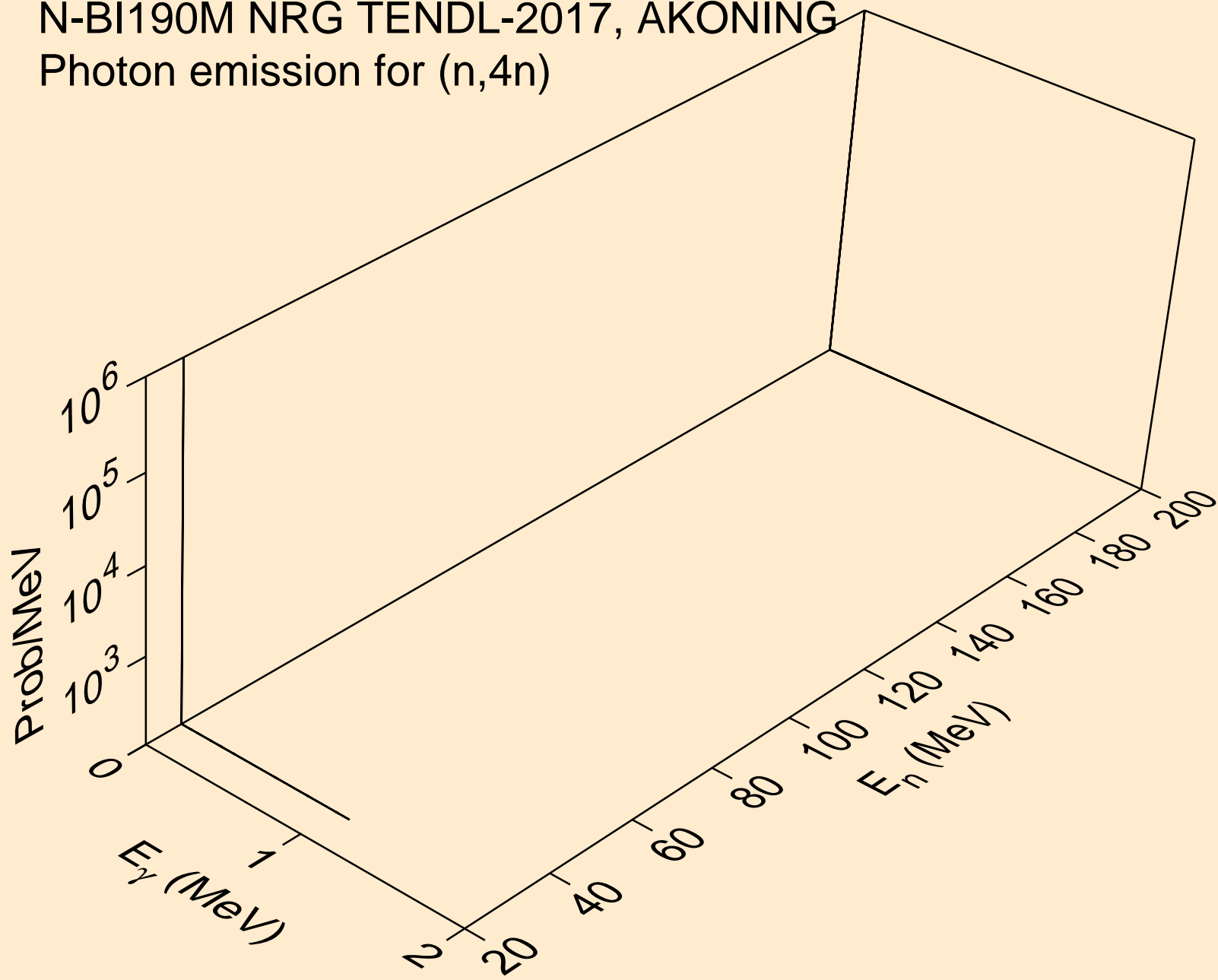
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Photon emission for (n,n\*)t



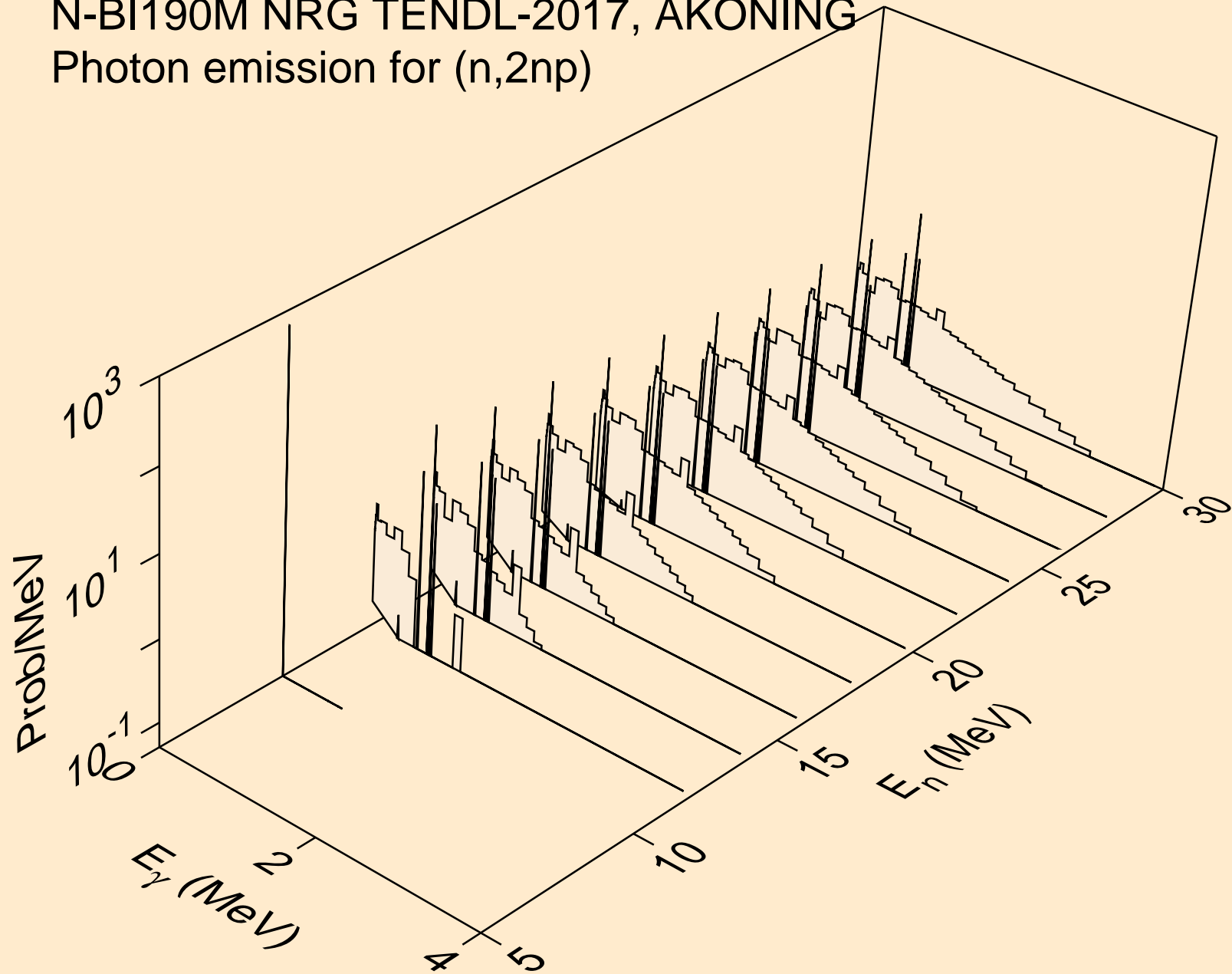
N-BI190M NRG TENDL-2017, AKONING  
Photon emission for (n,n\*)he3



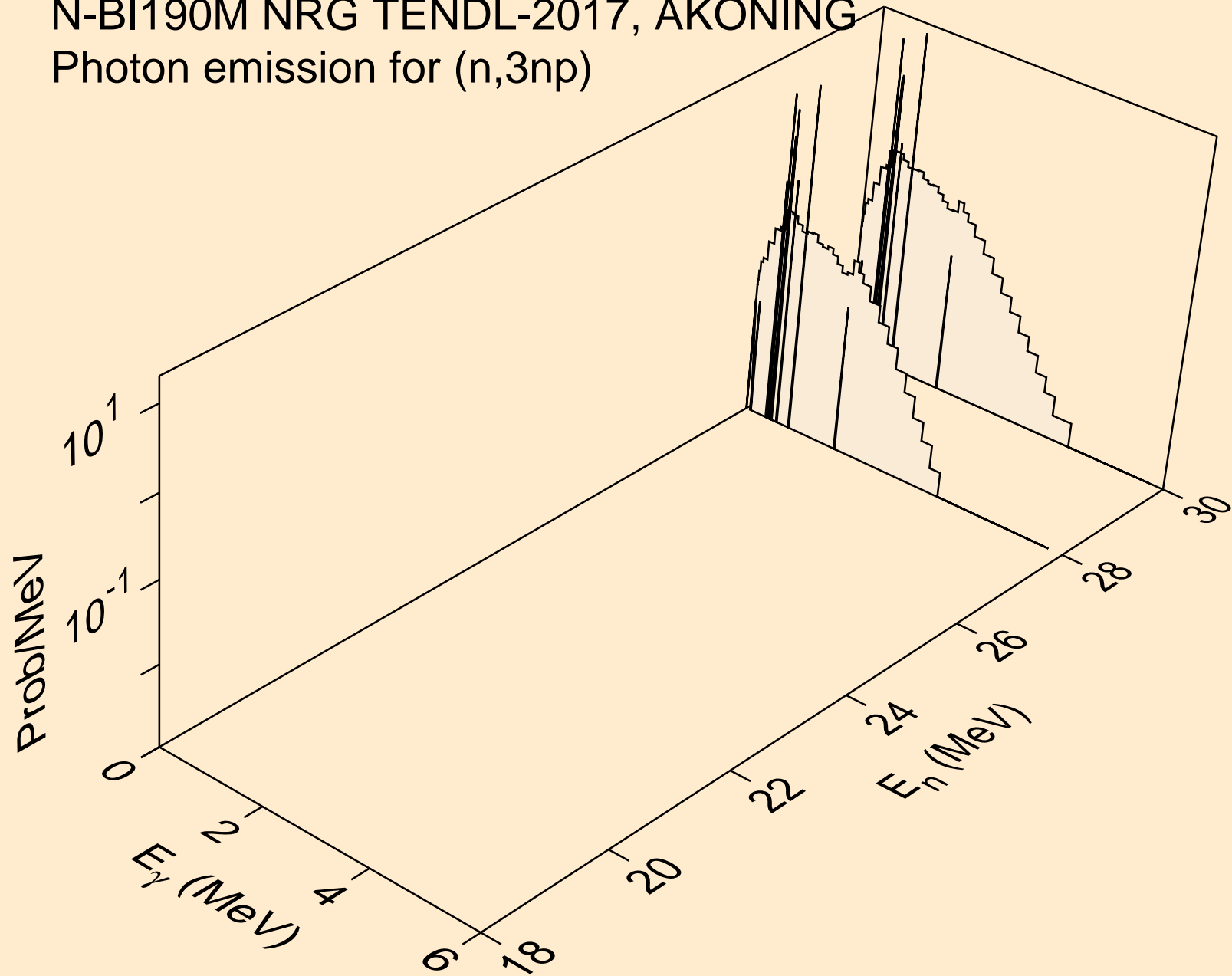
N-BI190M NRG TENDL-2017, AKONING  
Photon emission for (n,4n)



N-BI190M NRG TENDL-2017, AKONING  
Photon emission for (n,2np)

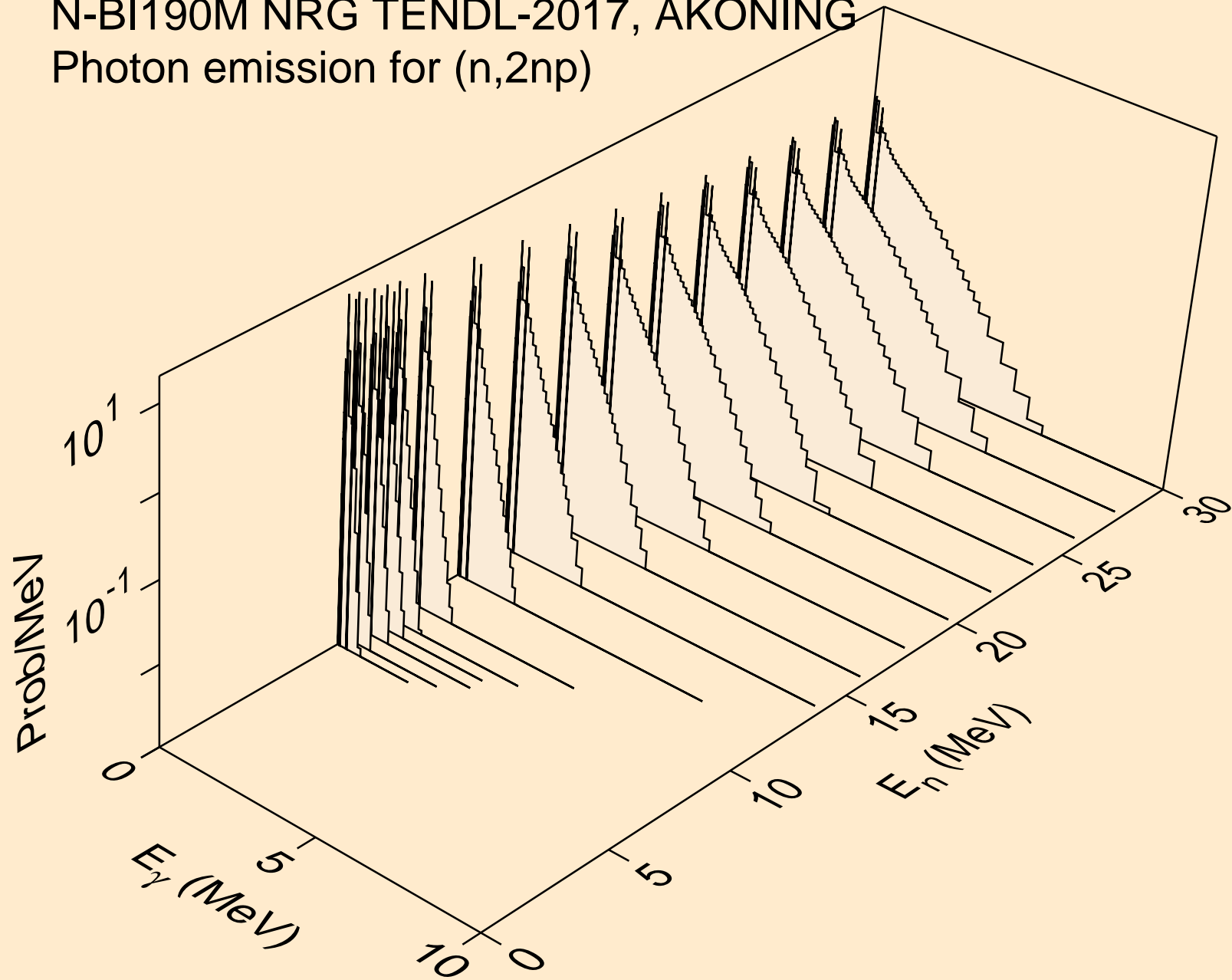


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Photon emission for (n,3np)

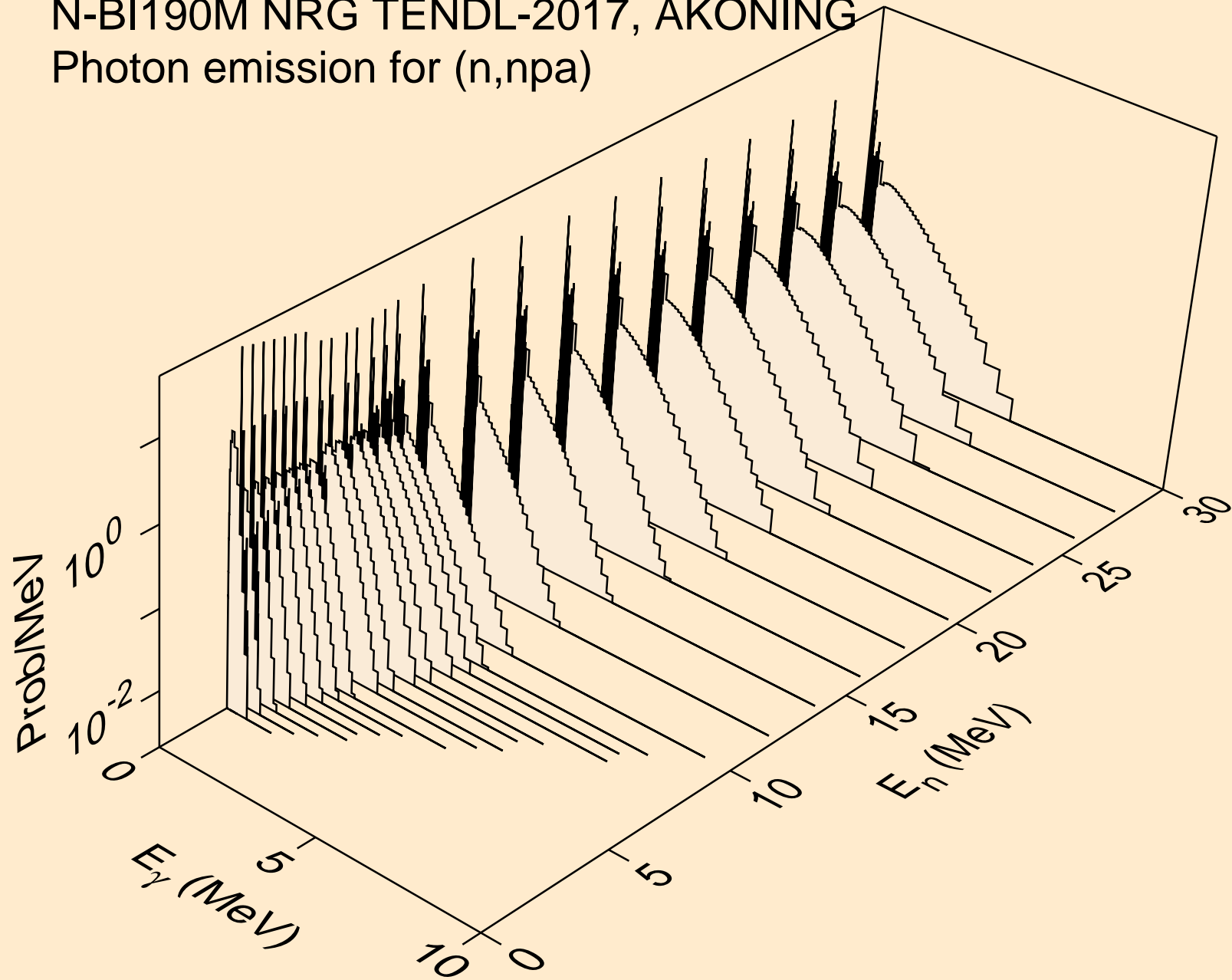




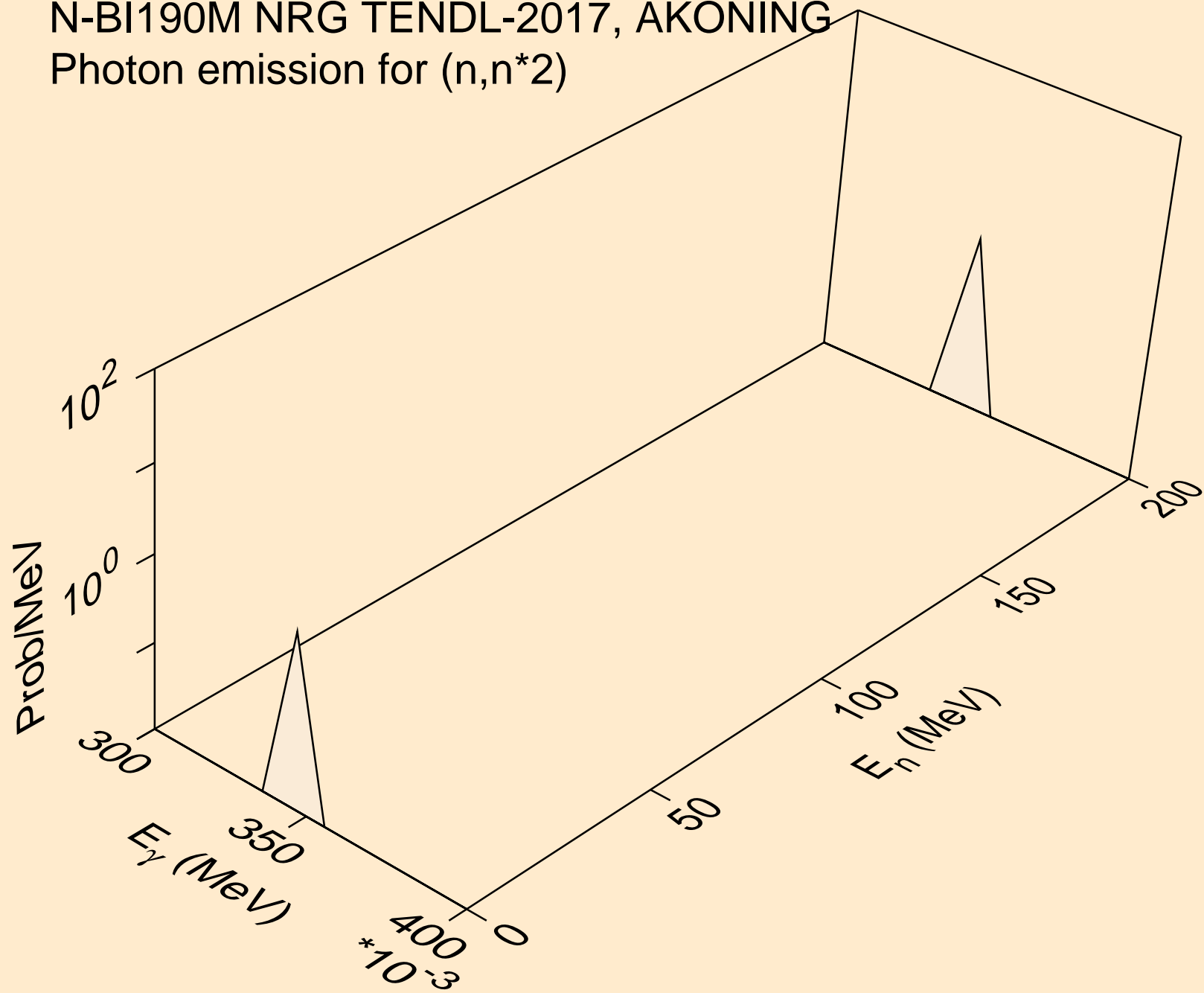
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Photon emission for (n,2np)



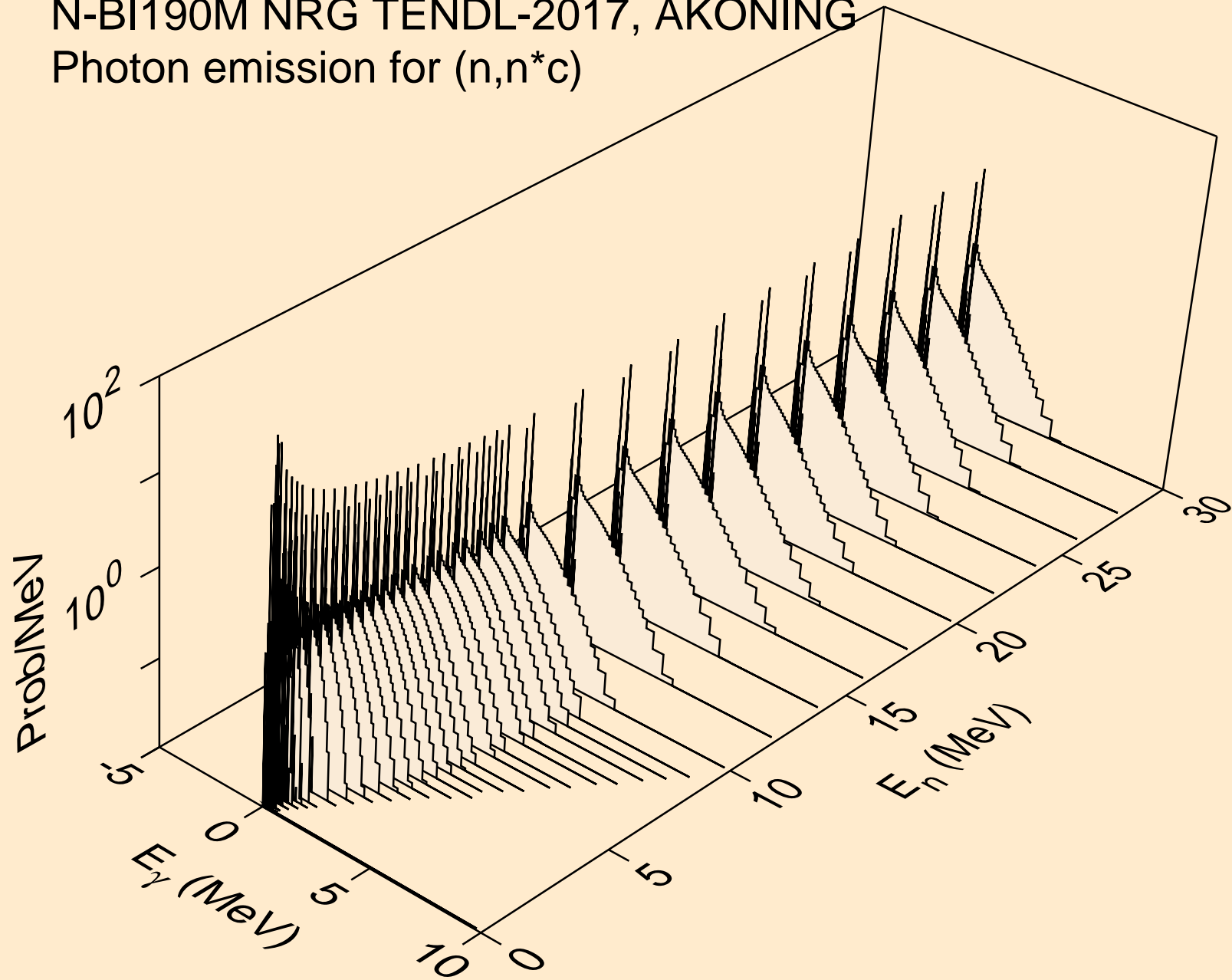
N-BI190M NRG TENDL-2017, AKONING  
Photon emission for (n,npa)



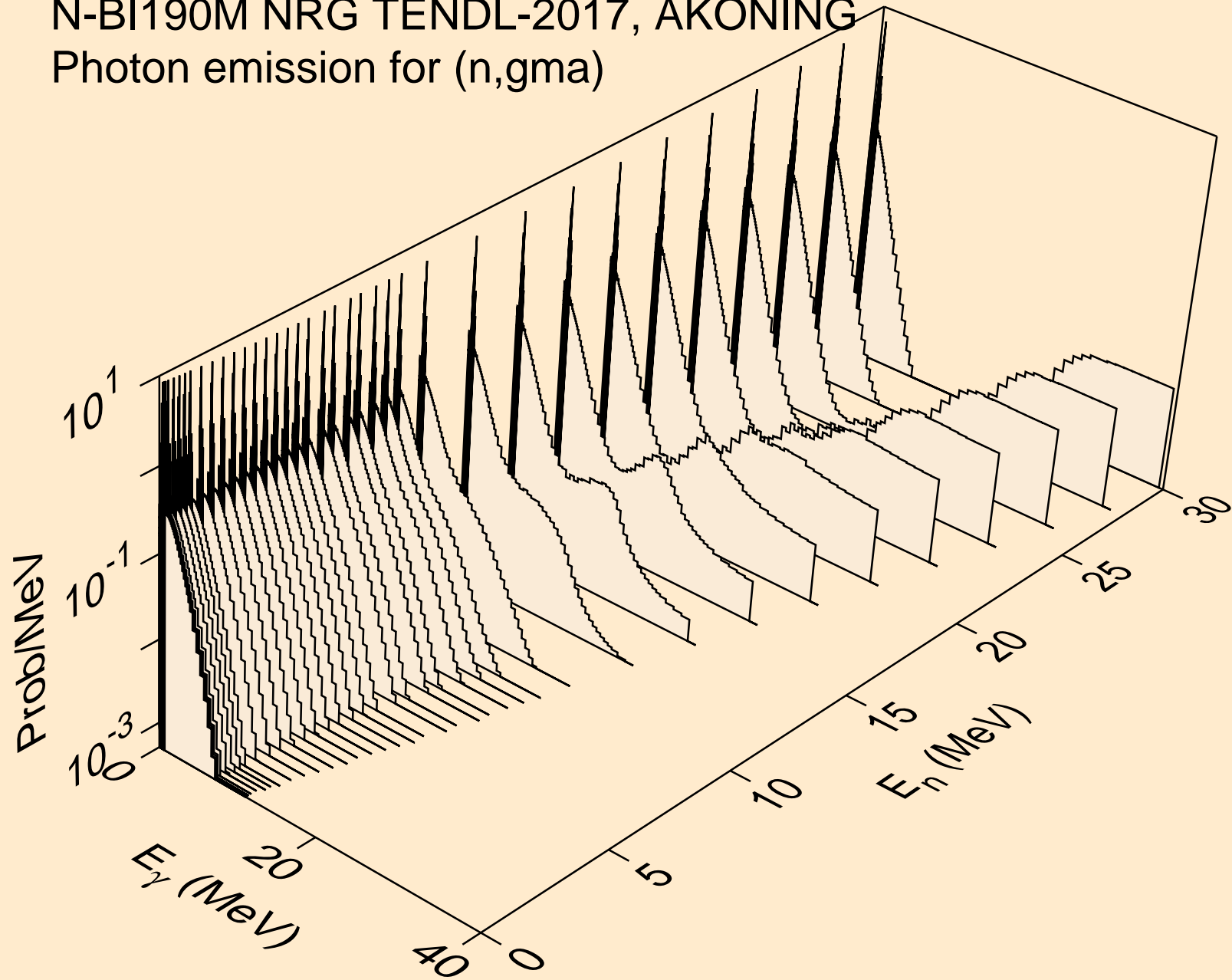
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Photon emission for (n,n\*2)



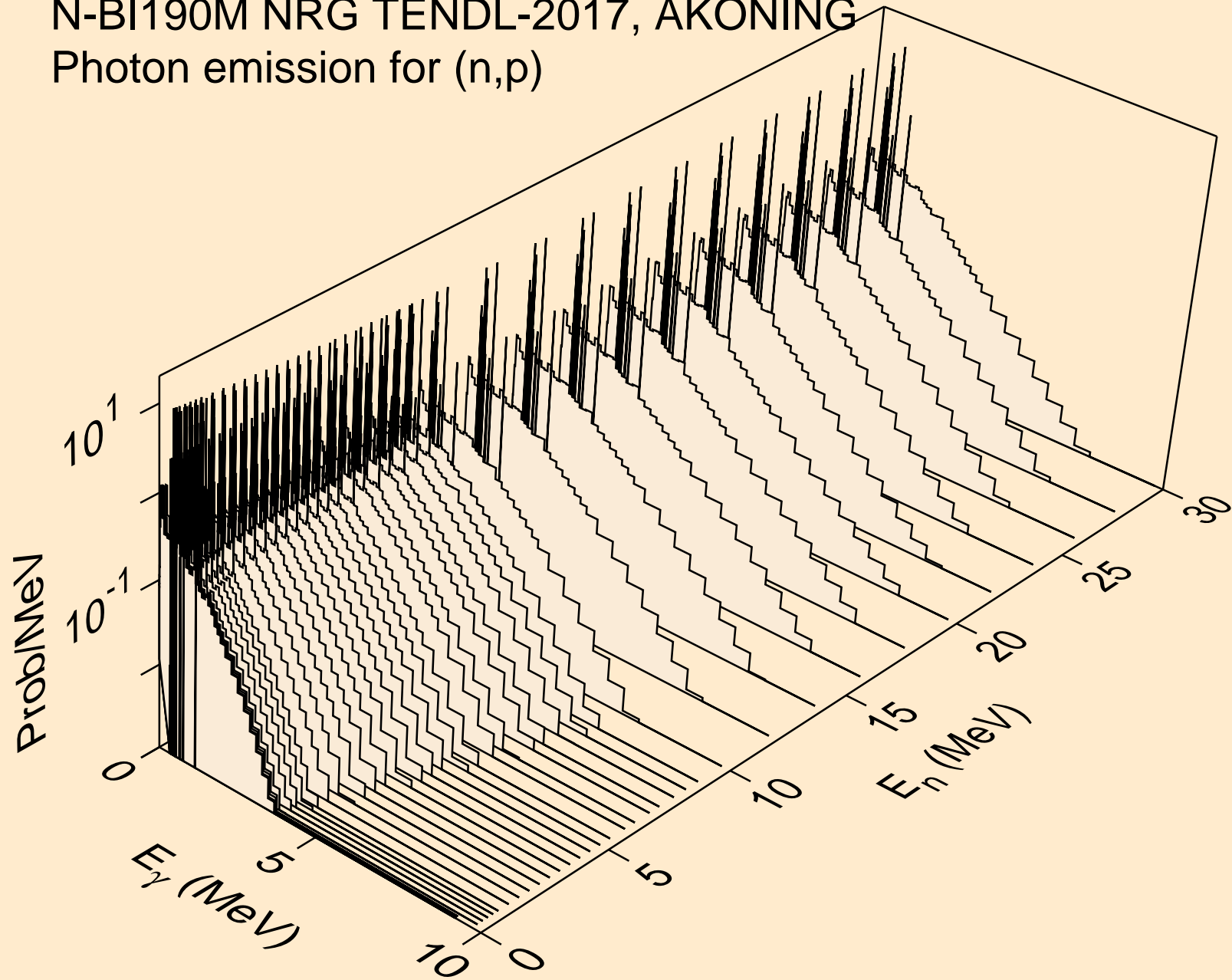
N-BI190M NRG TENDL-2017, AKONING  
Photon emission for (n,n\*c)



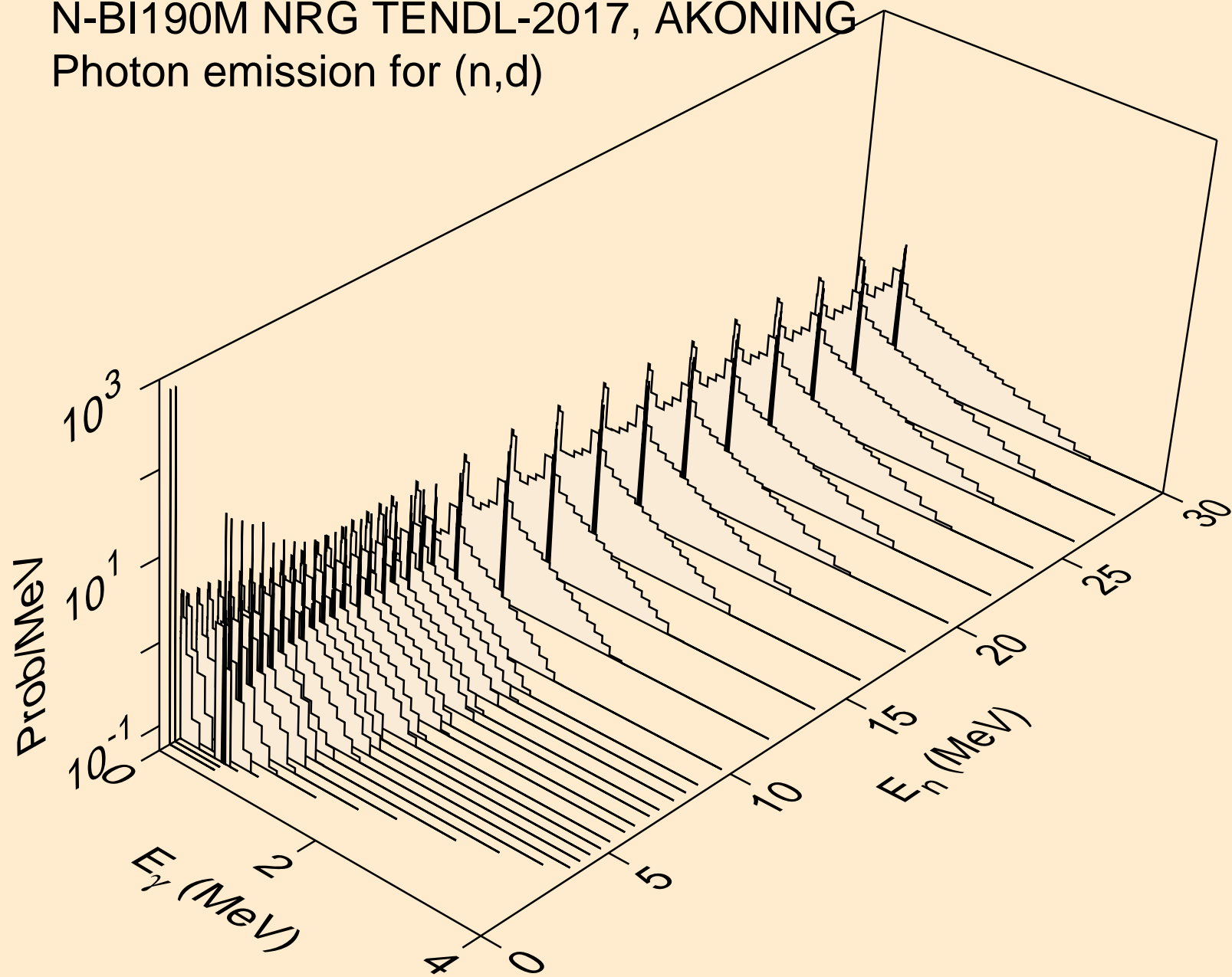
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Photon emission for (n,gma)



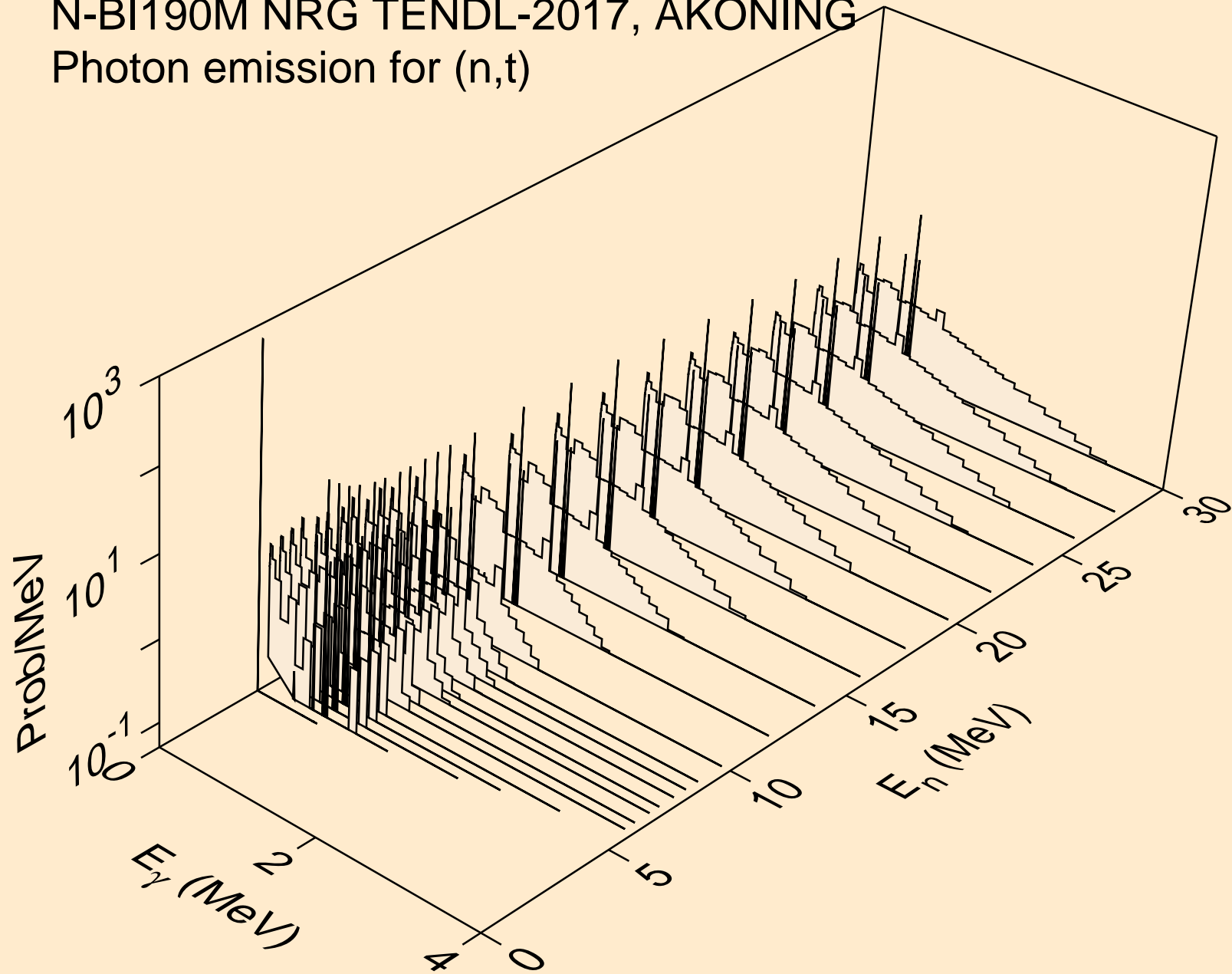
N-BI190M NRG TENDL-2017, AKONING  
Photon emission for (n,p)



N-BI190M NRG TENDL-2017, AKONING  
Photon emission for (n,d)

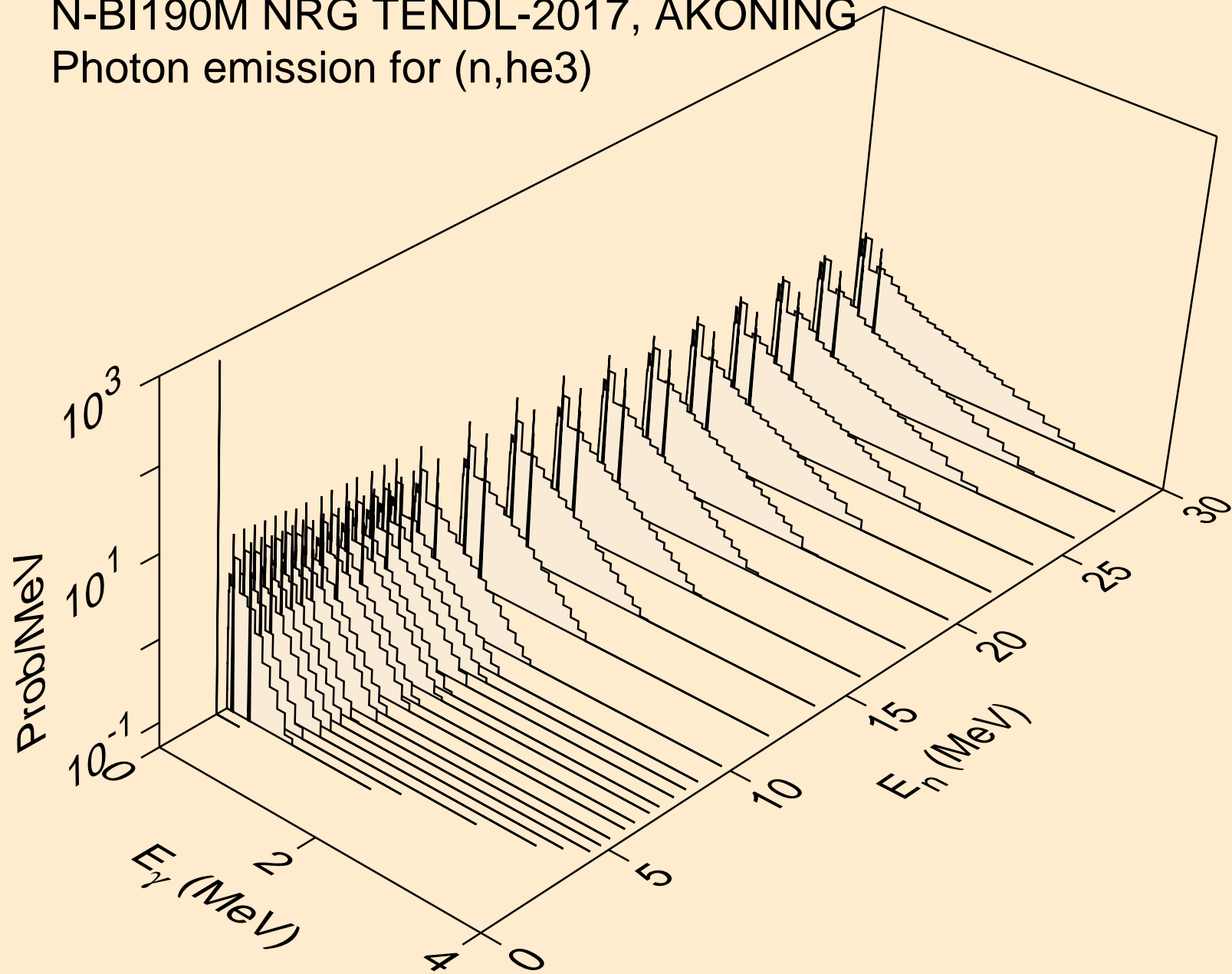


N-BI190M NRG TENDL-2017, AKONING  
Photon emission for (n,t)

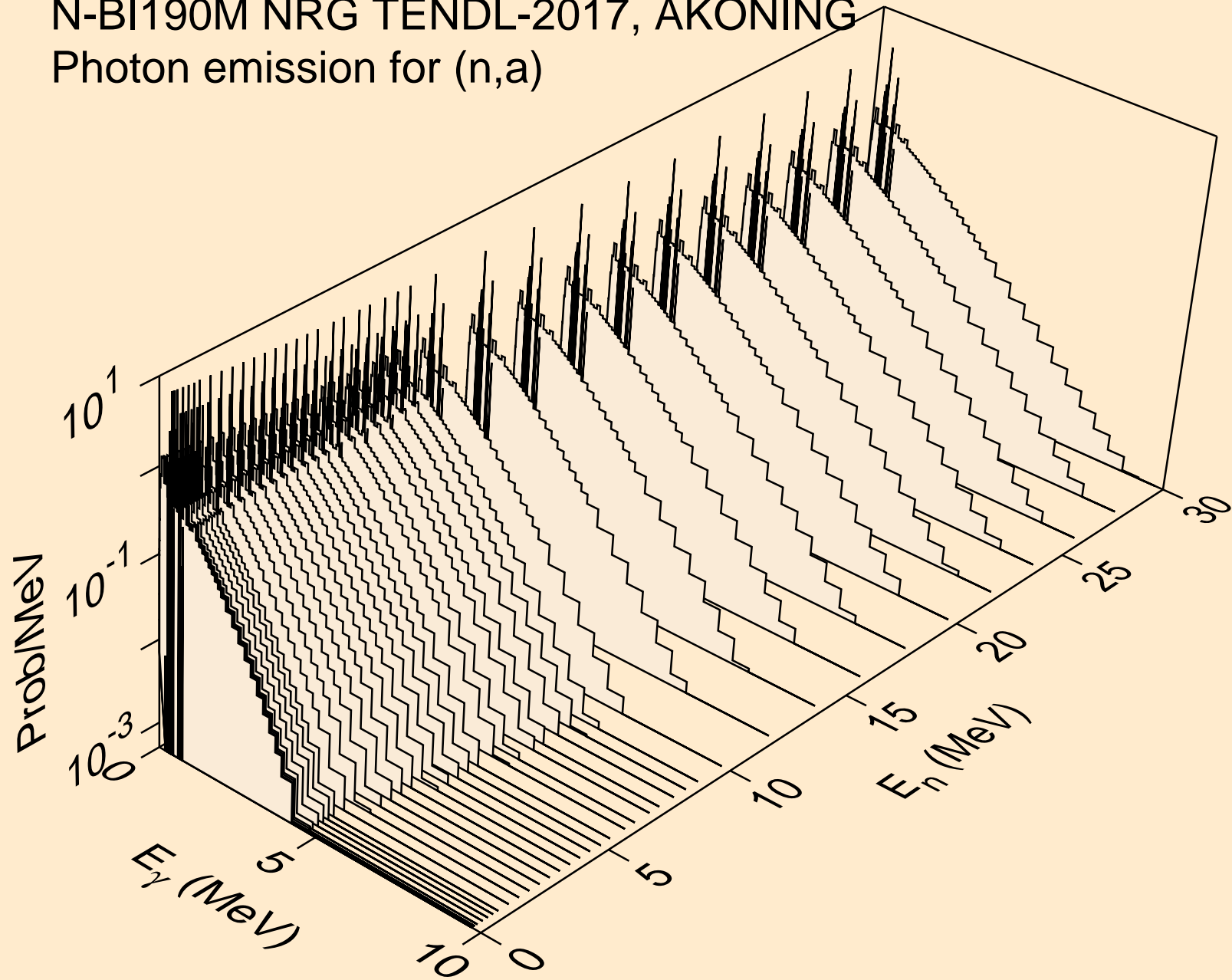




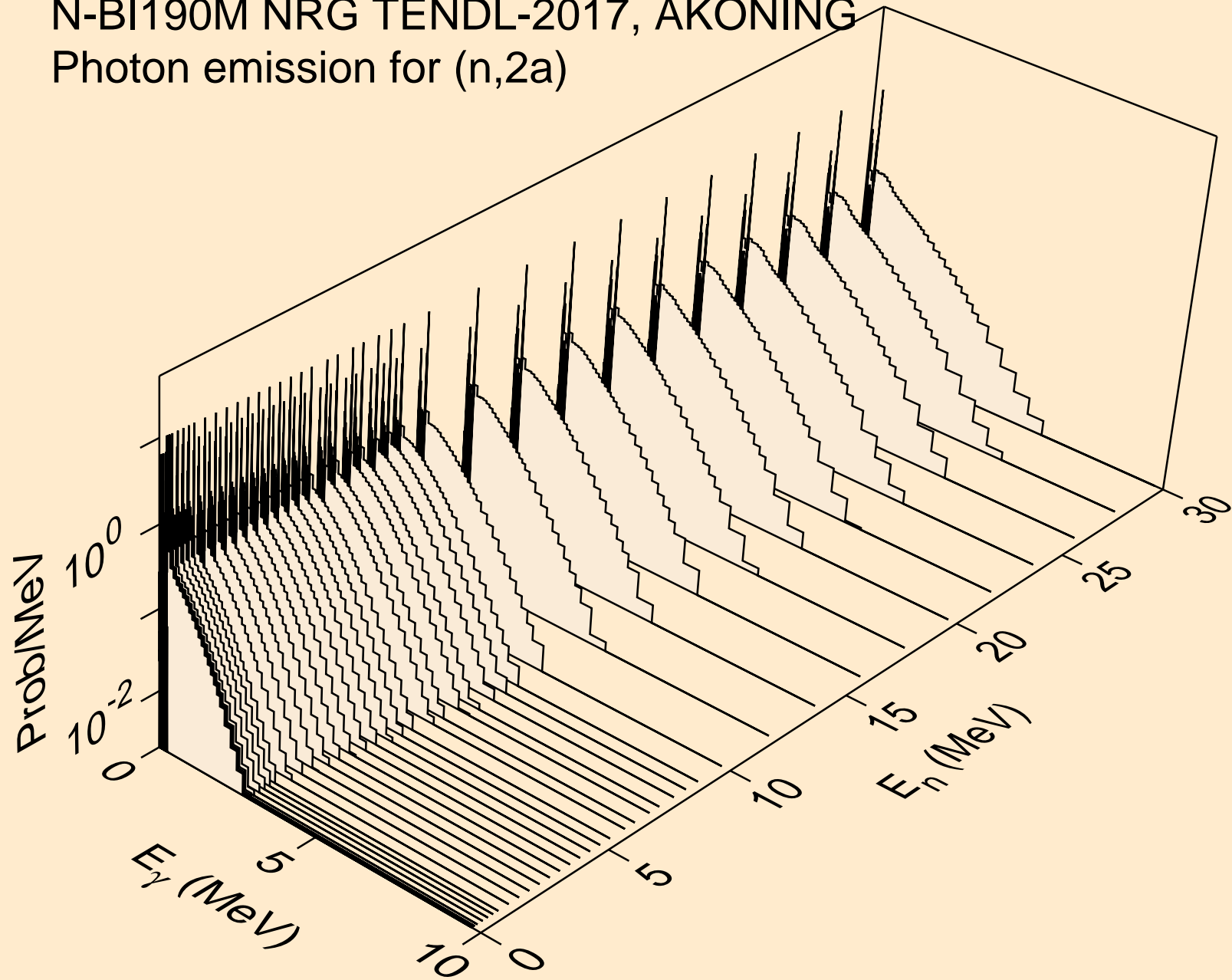
N-BI190M NRG TENDL-2017, AKONING  
Photon emission for (n,he3)



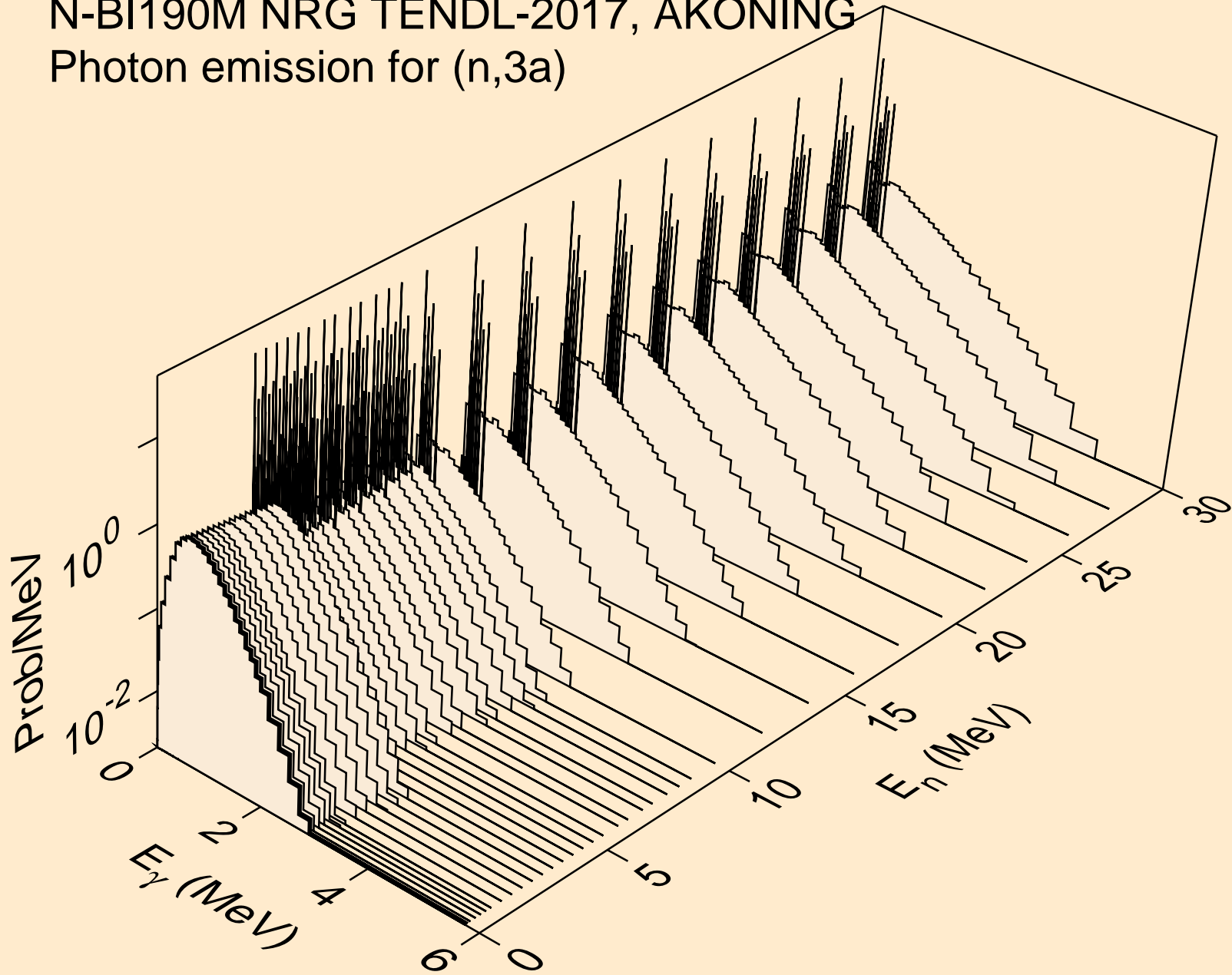
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Photon emission for (n,a)



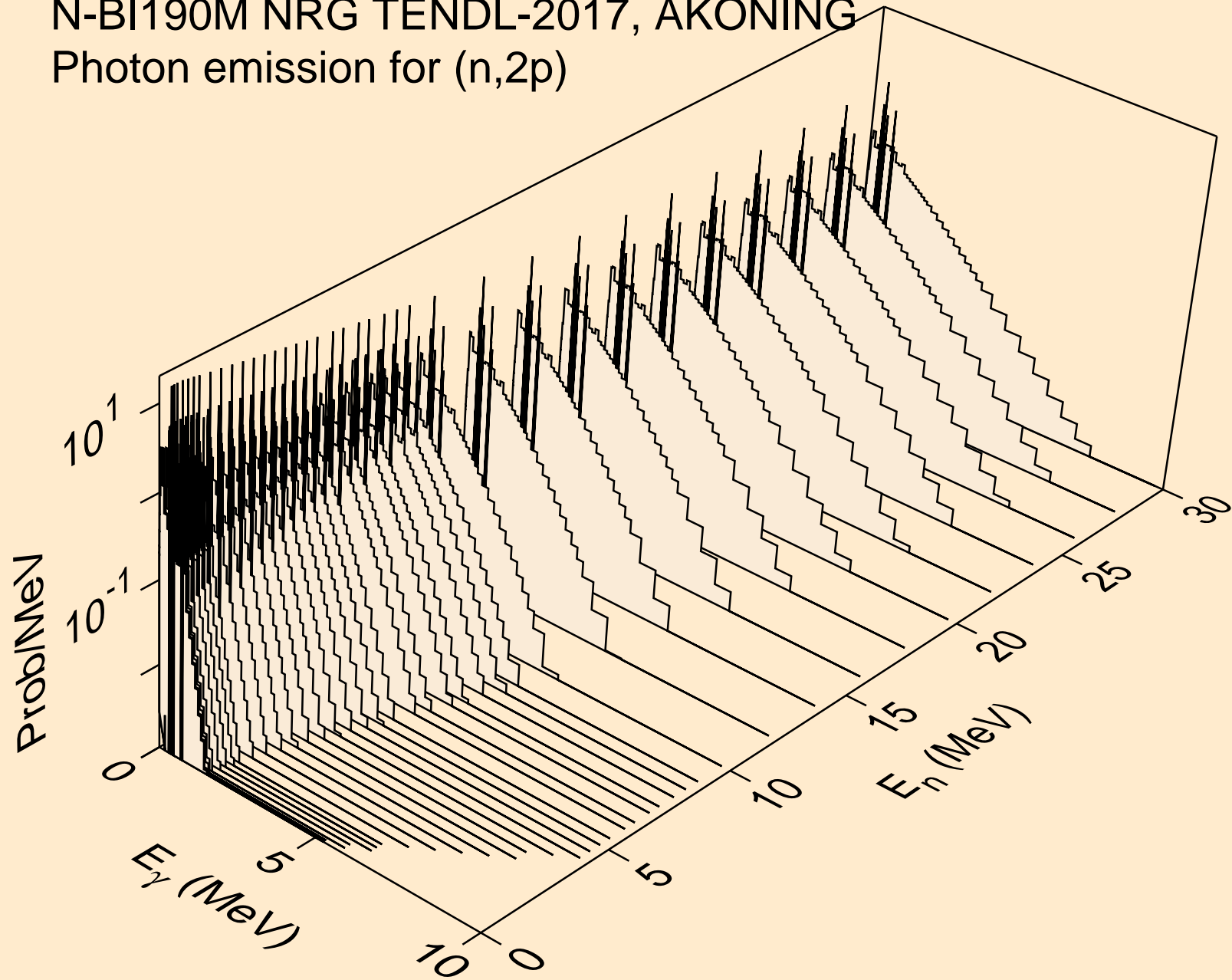
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Photon emission for (n,2a)



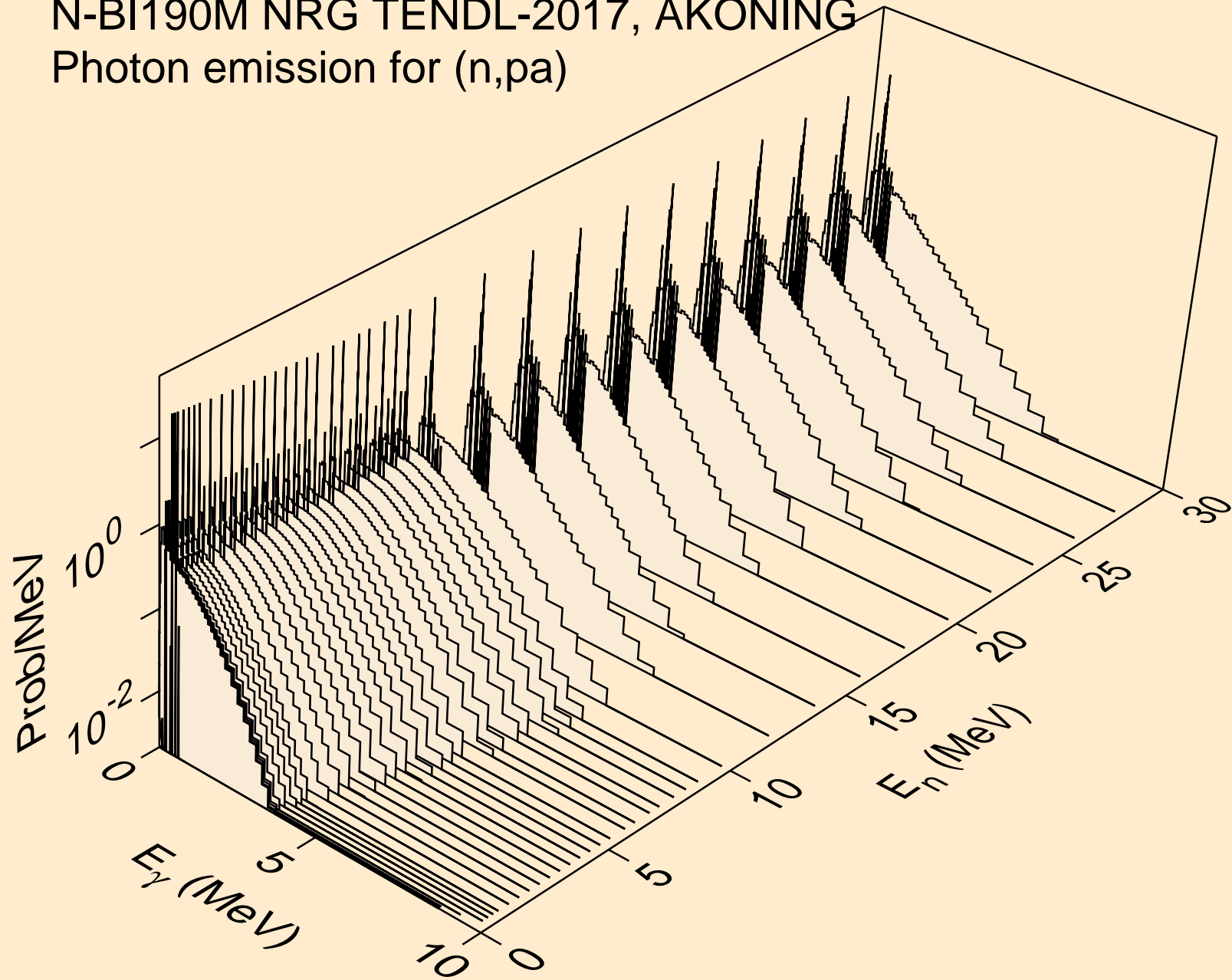
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Photon emission for (n,3a)



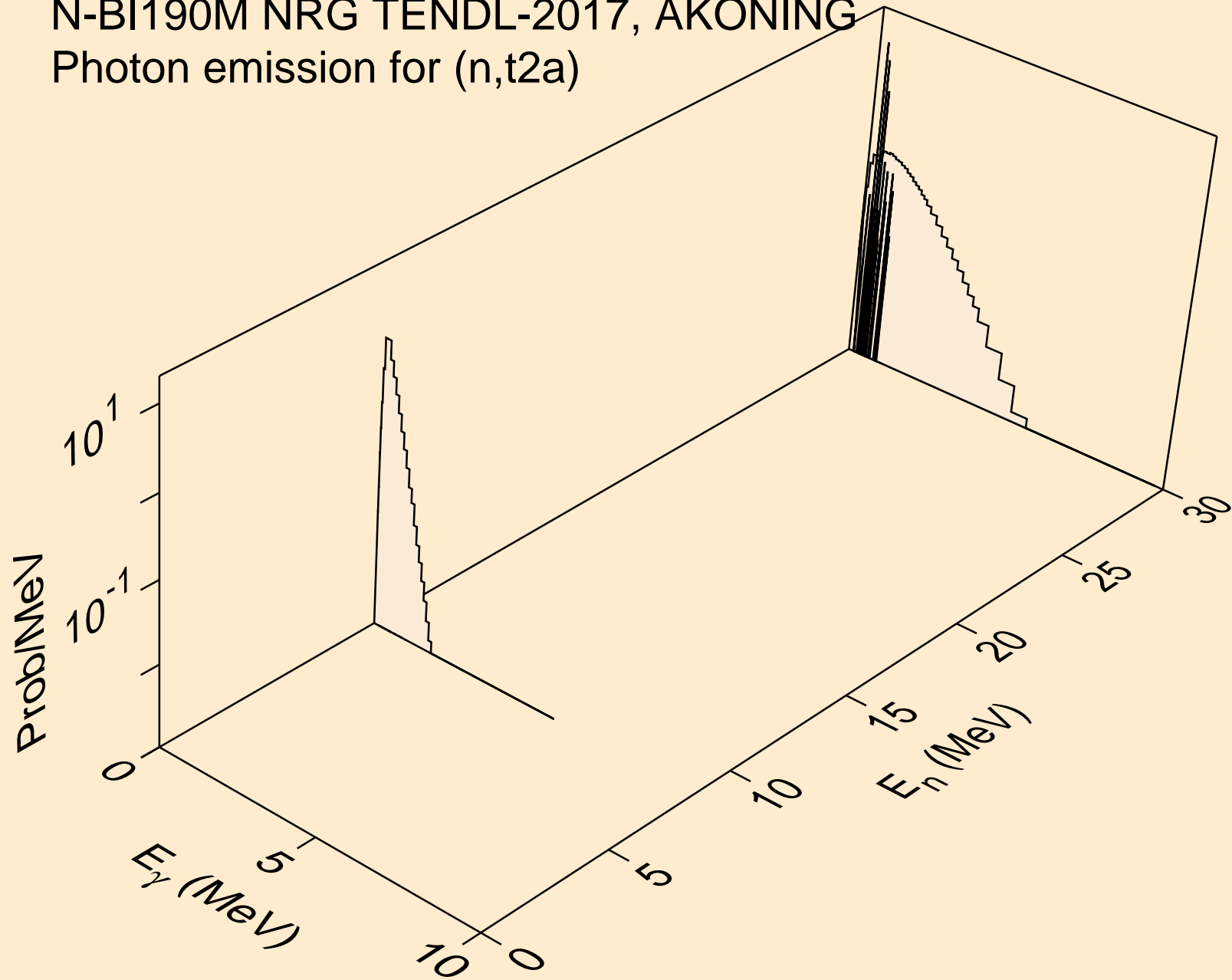
N-BI190M NRG TENDL-2017, AKONING  
Photon emission for (n,2p)



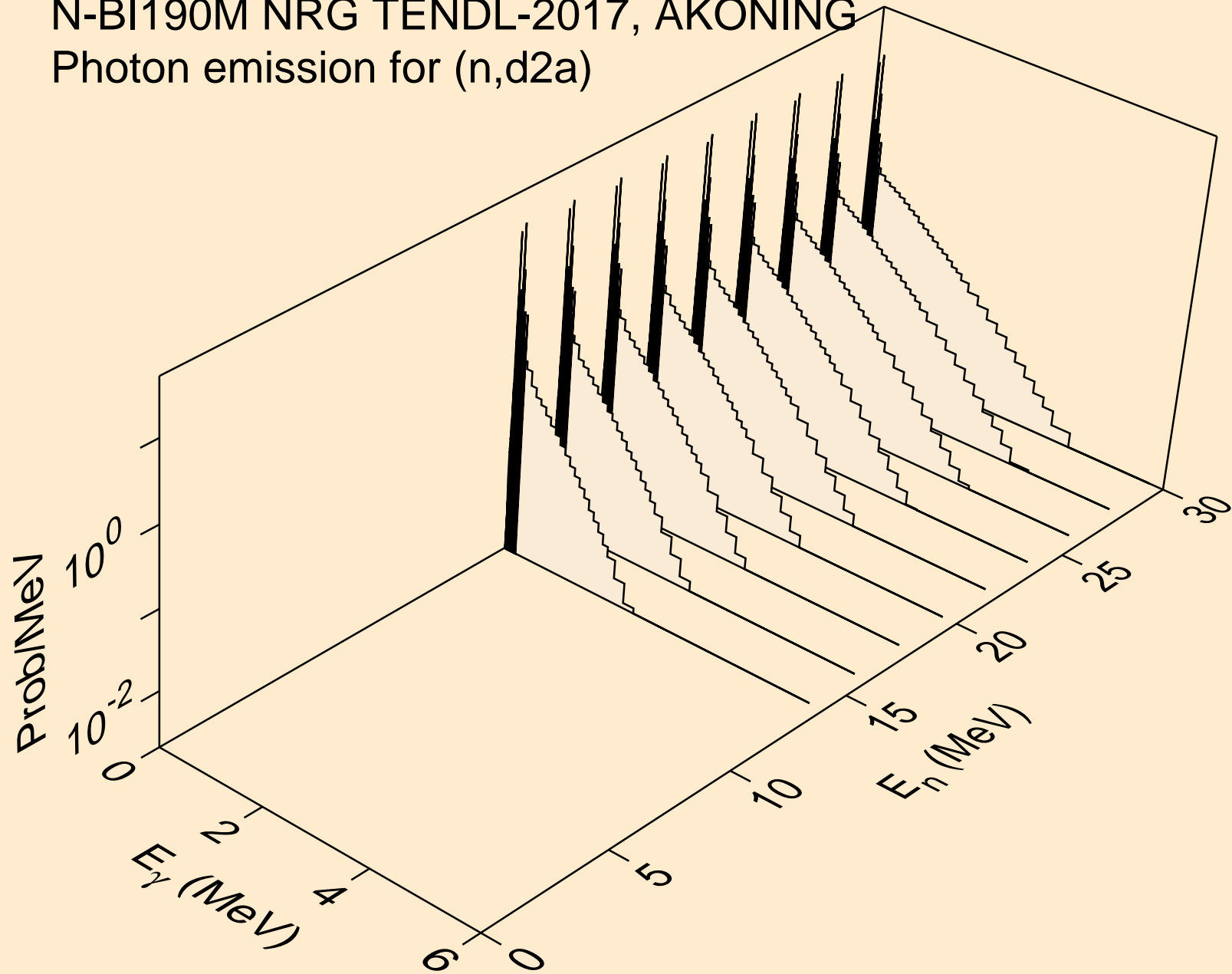
N-BI190M NRG TENDL-2017, AKONING  
Photon emission for (n,p $\alpha$ )



N-BI190M NRG TENDL-2017, AKONING  
Photon emission for (n,t2a)

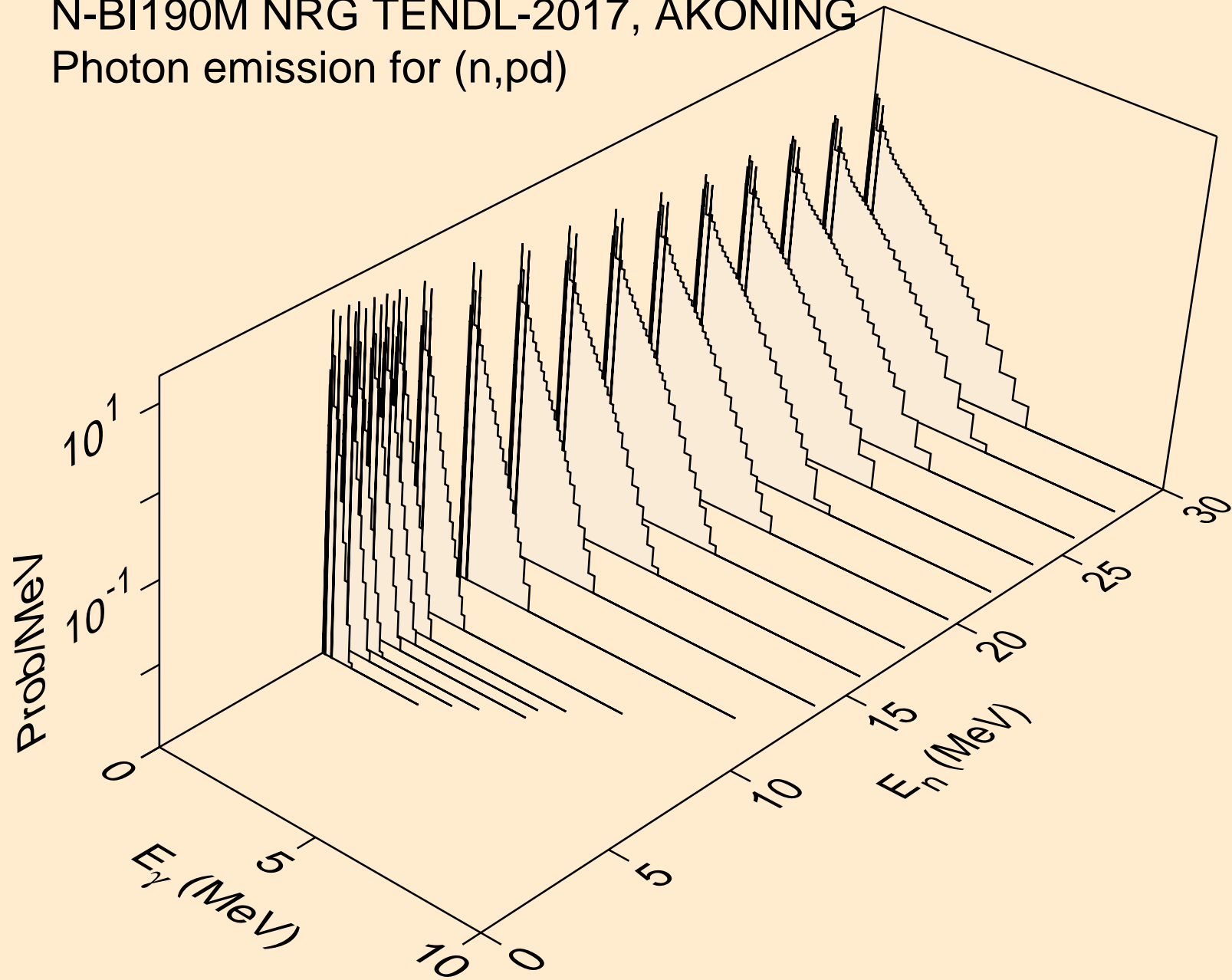


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Photon emission for (n,d2a)

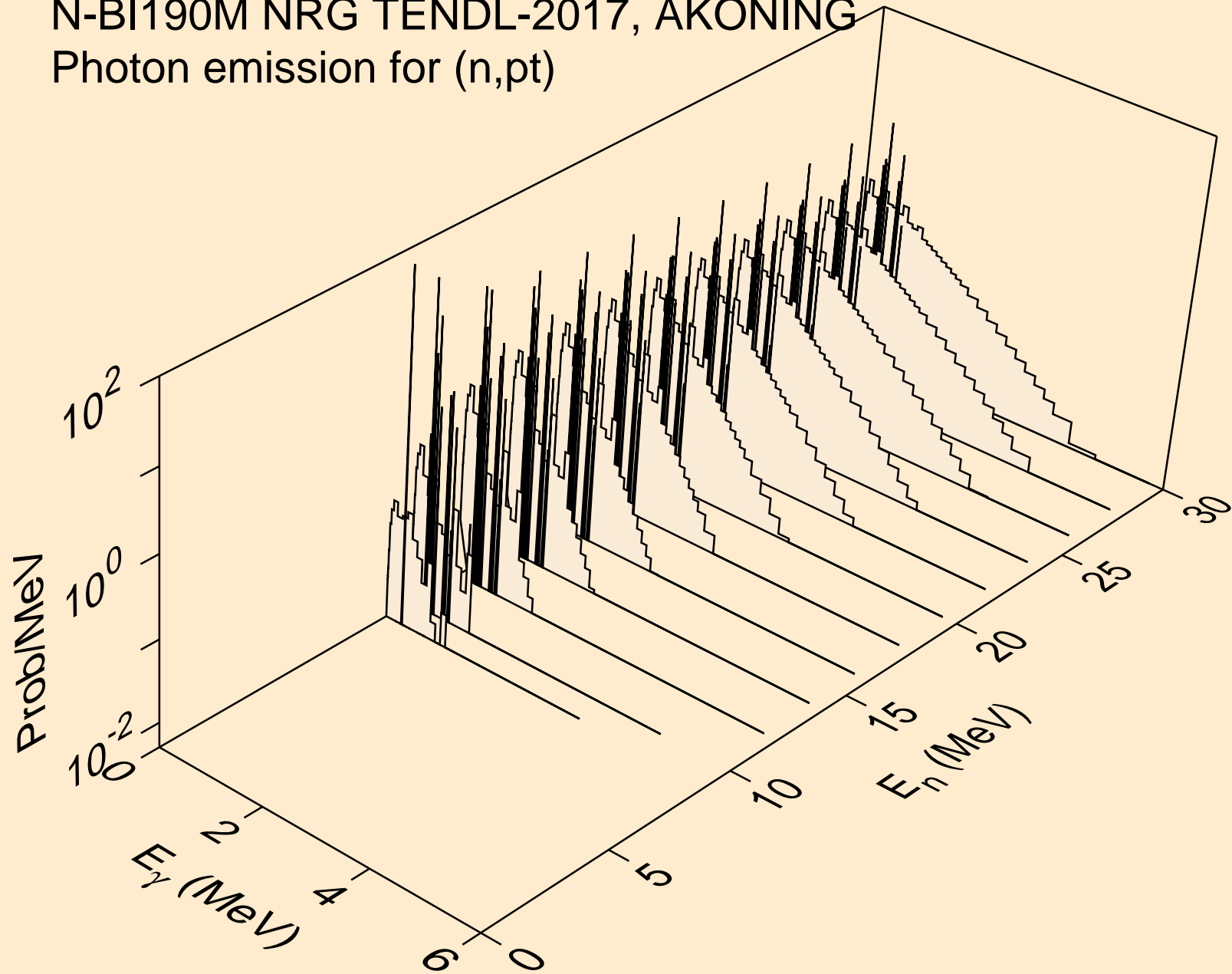




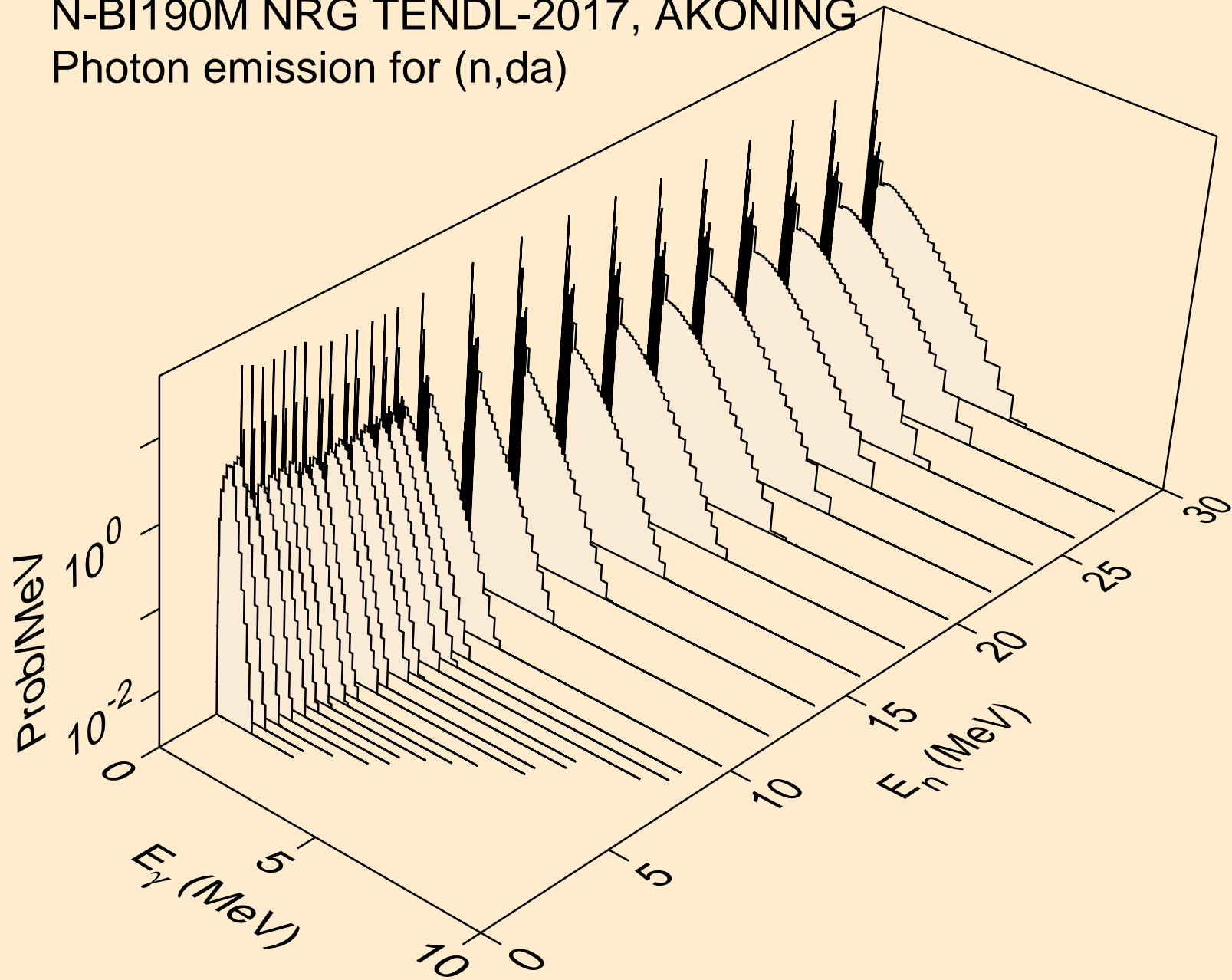
N-BI190M NRG TENDL-2017, AKONING  
Photon emission for (n,pd)



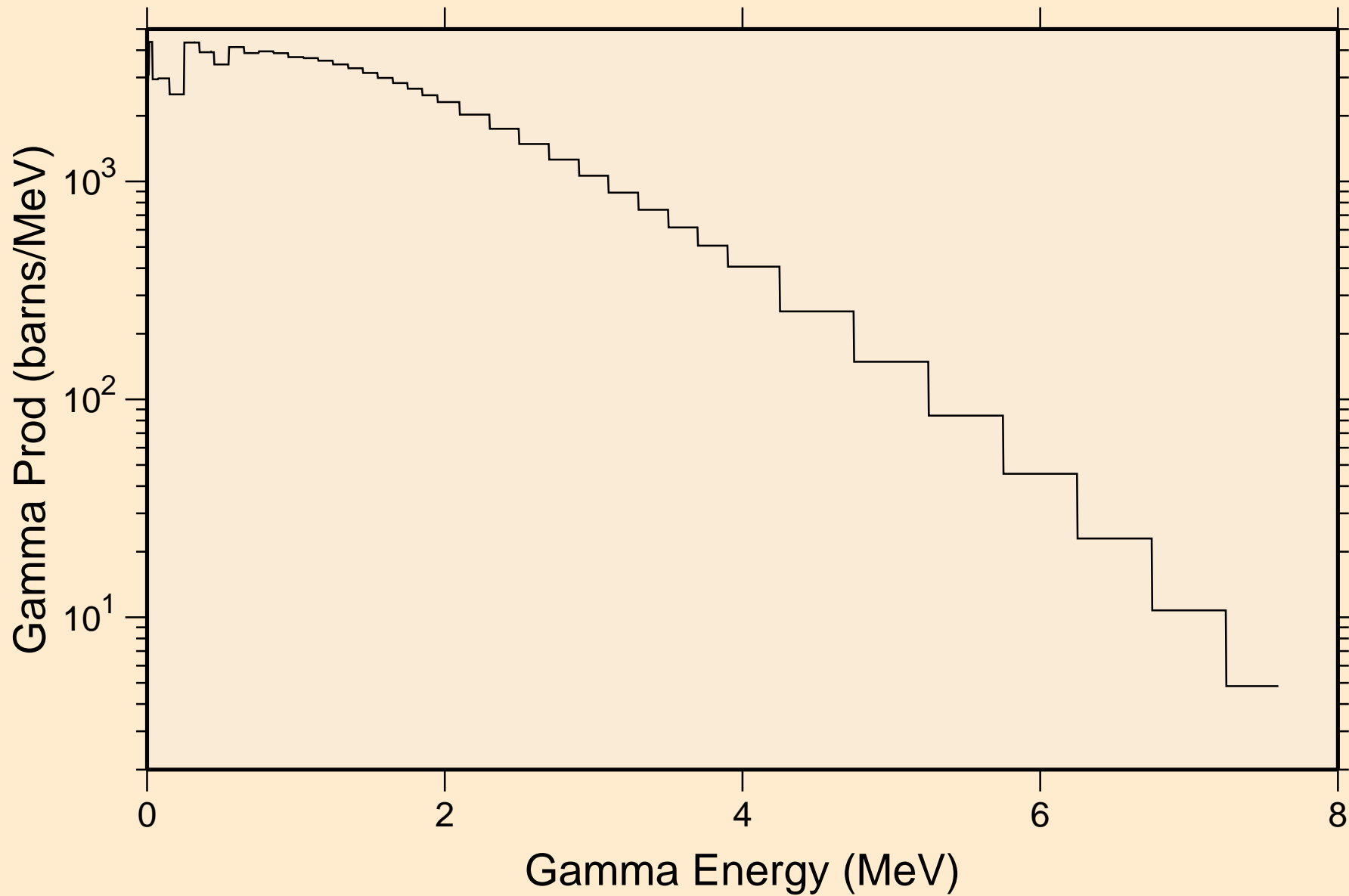
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Photon emission for (n,pt)



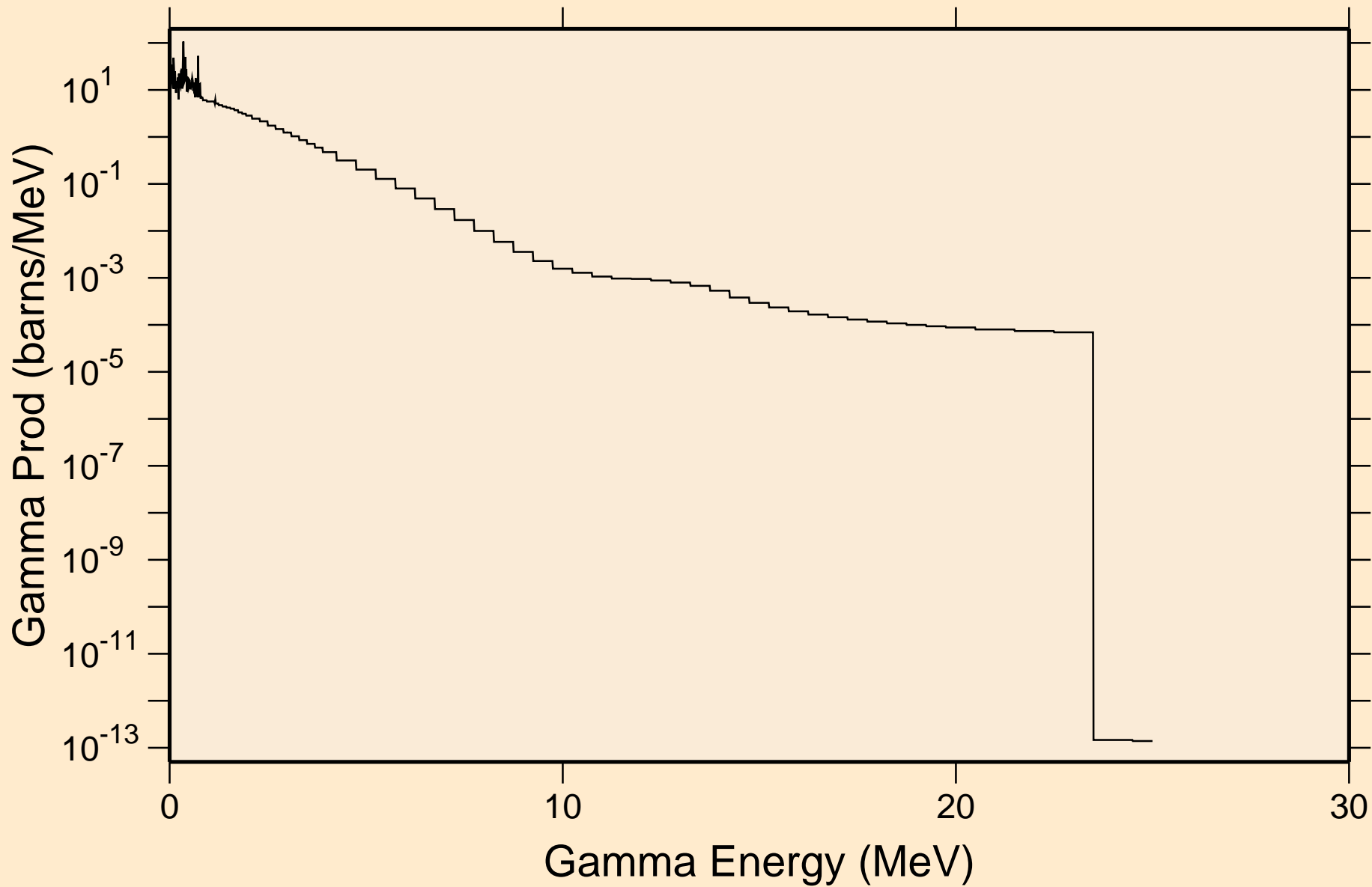
N-BI190M NRG TENDL-2017, AKONING  
Photon emission for (n,da)



N-BI190M NRG TENDL-2017, AKONING  
thermal capture photon spectrum

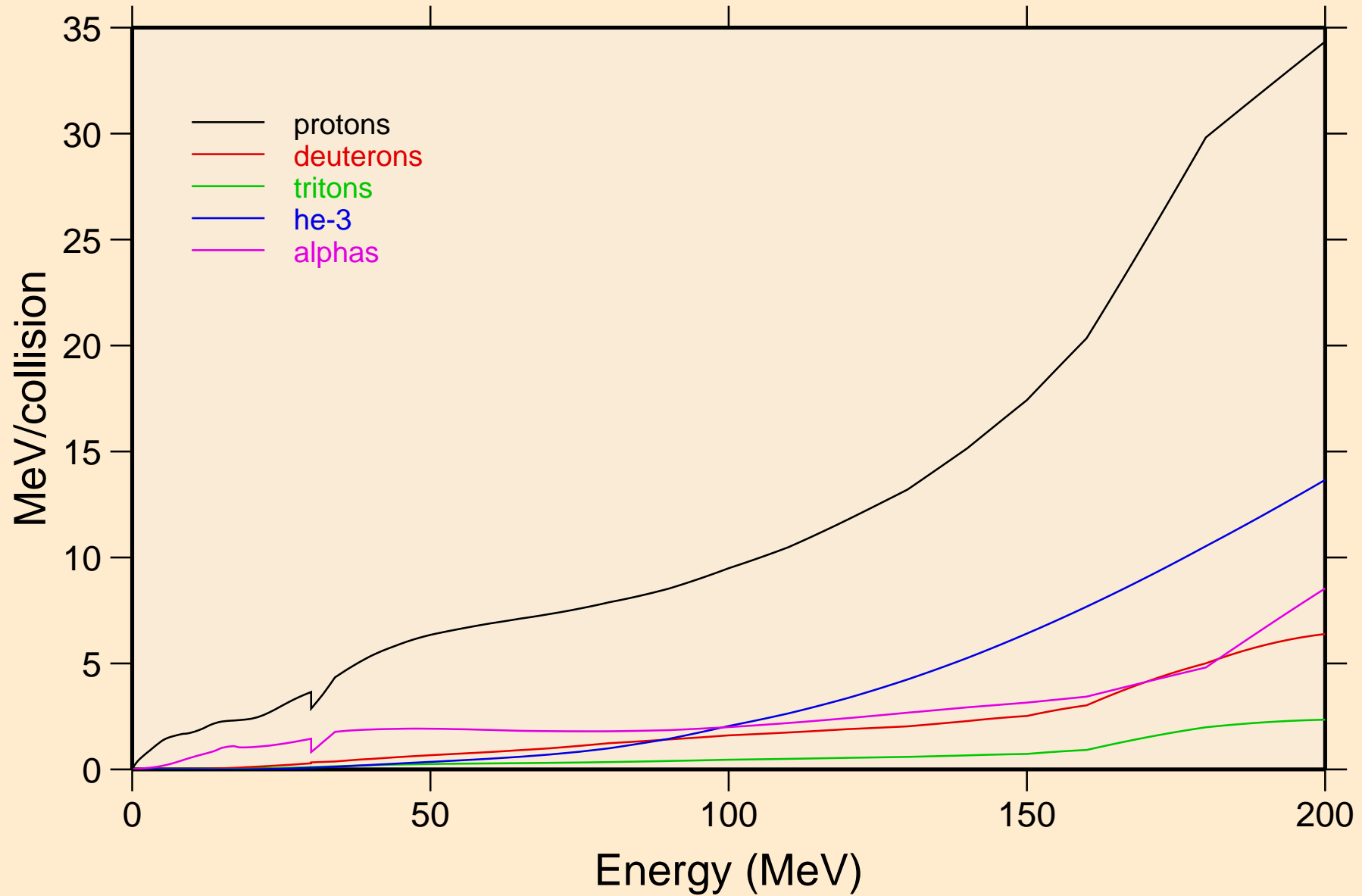


N-BI190M NRG TENDL-2017, AKONING  
14 MeV photon spectrum



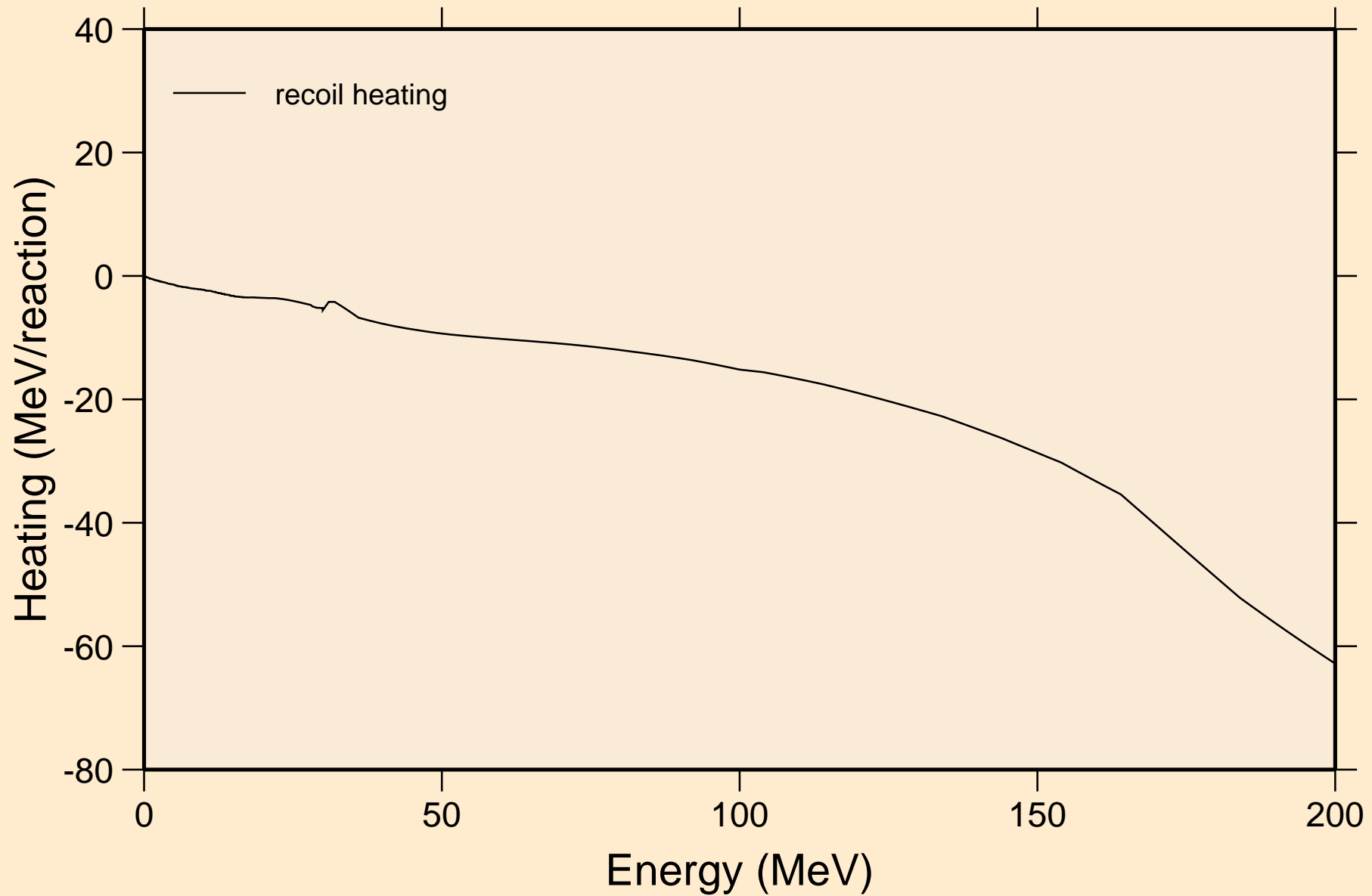
# N-BI190M NRG TENDL-2017, AKONING

## Particle heating contributions



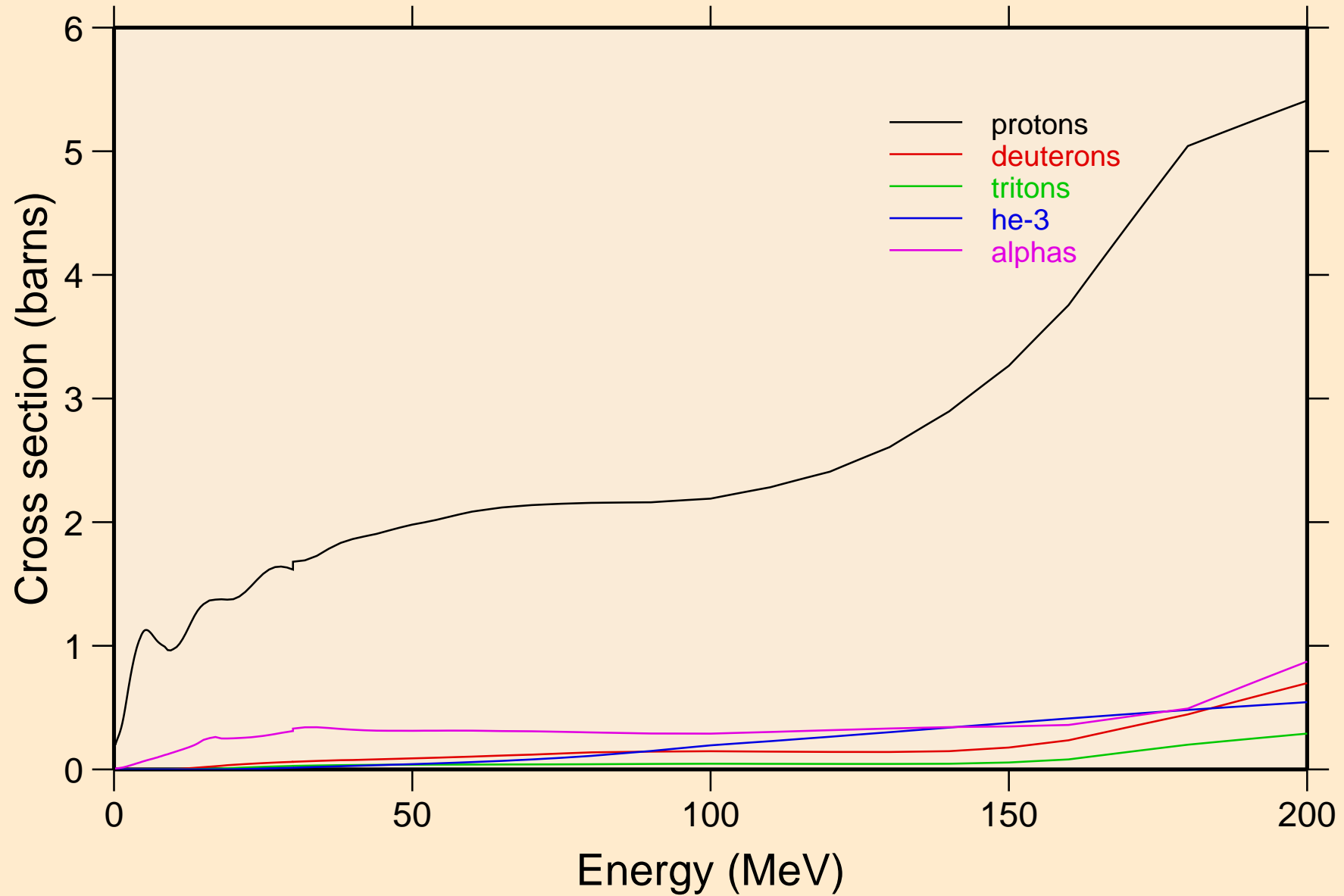
# N-BI190M NRG TENDL-2017, AKONING

## Recoil Heating



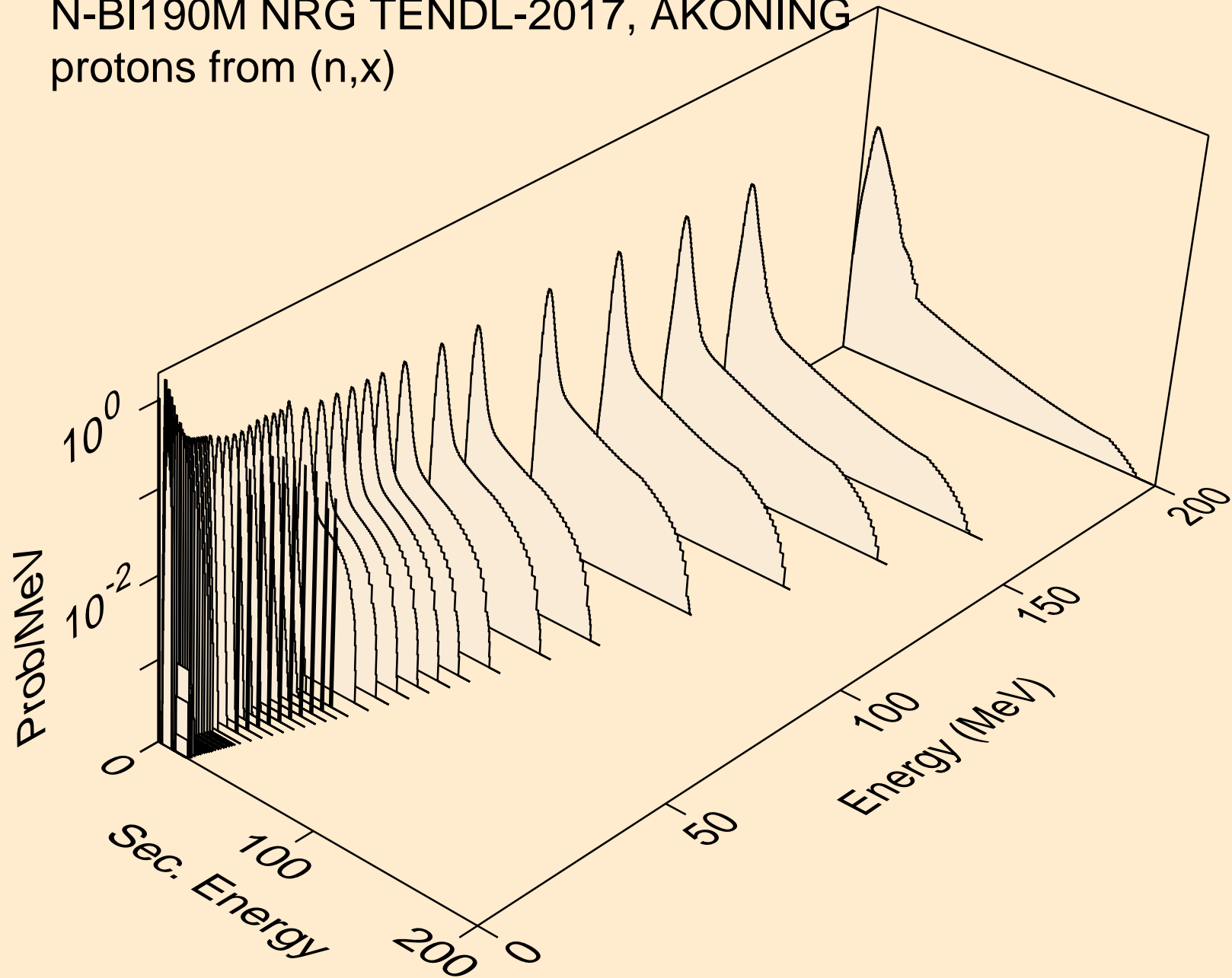
# N-BI190M NRG TENDL-2017, AKONING

## Particle production cross sections

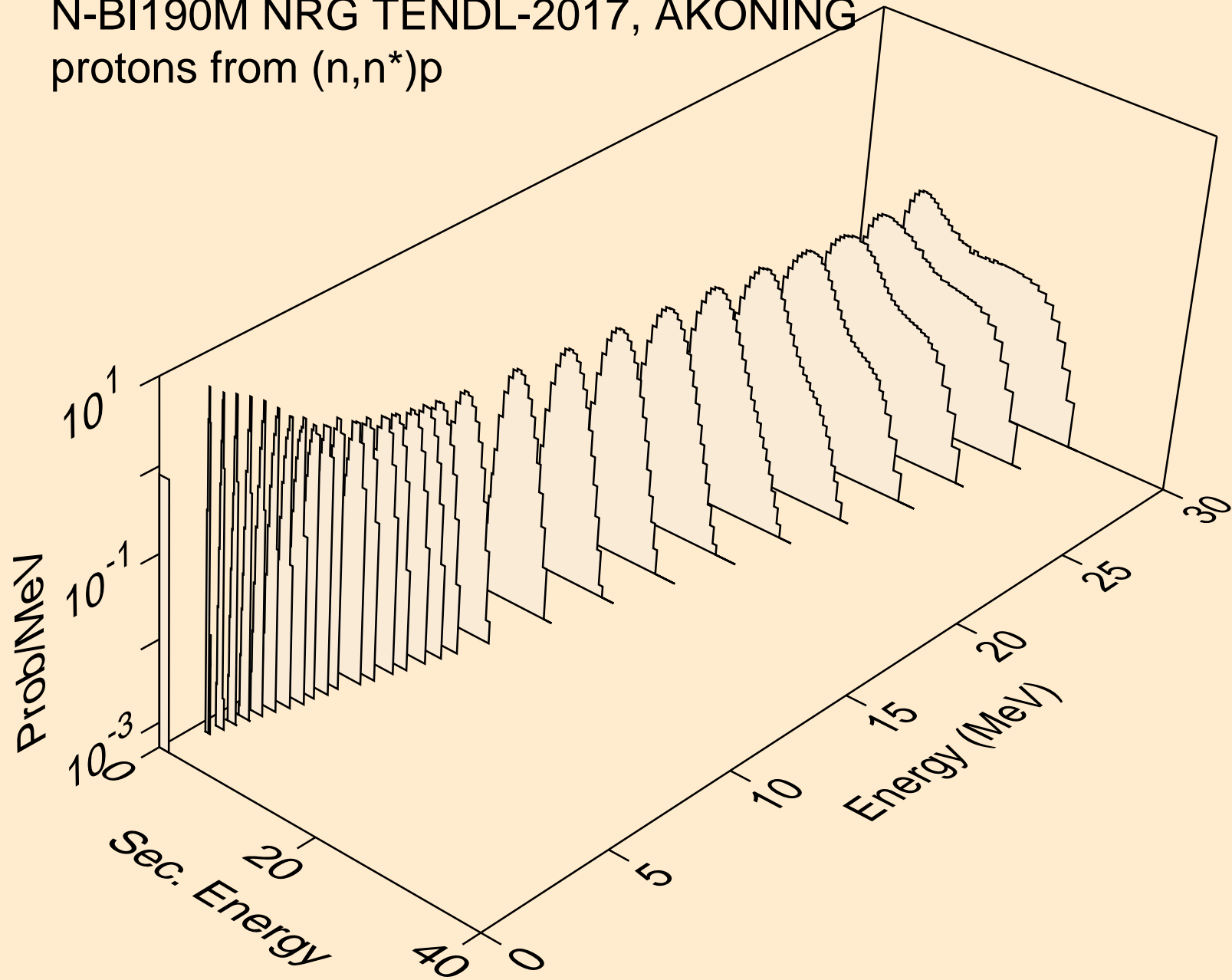




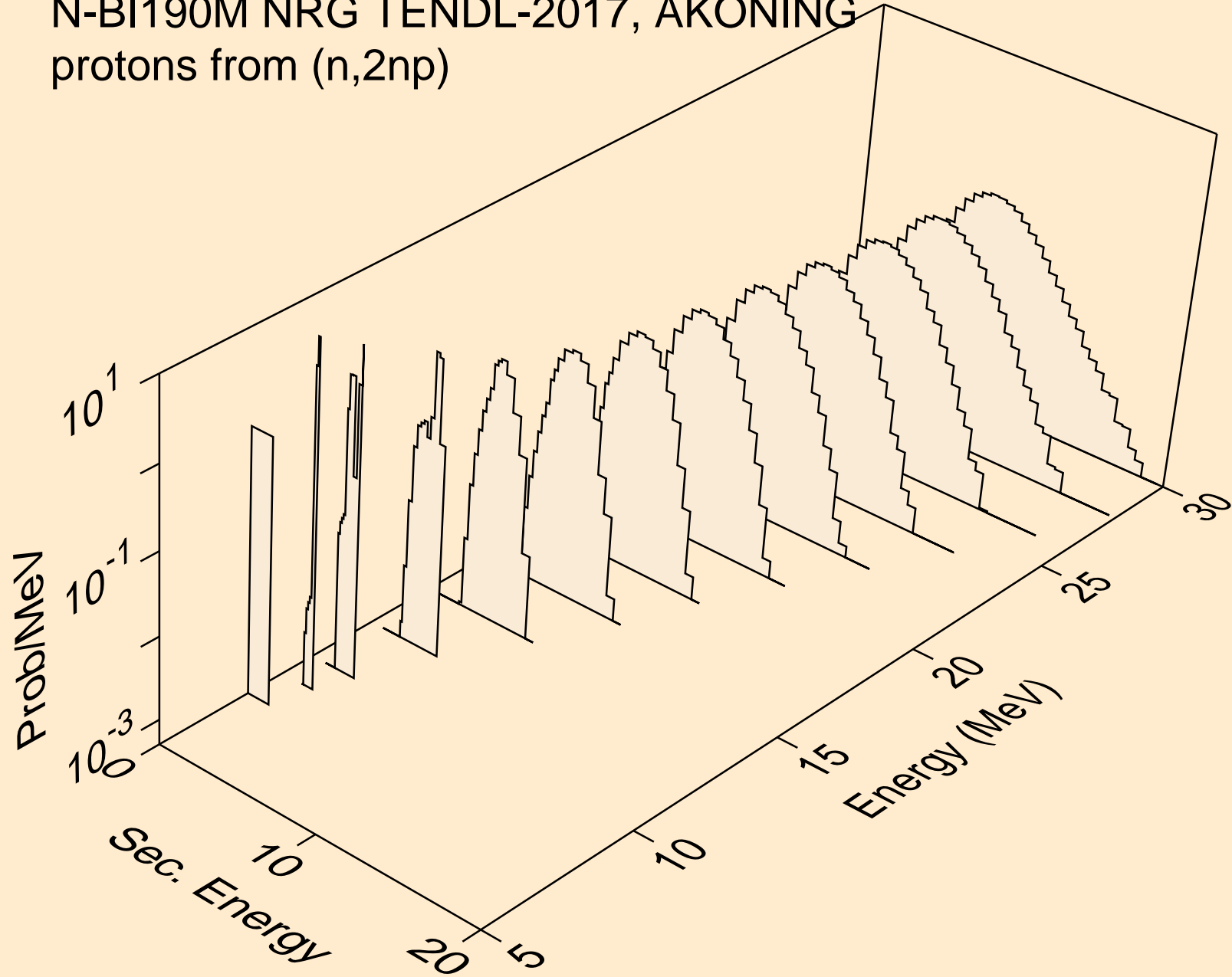
N-BI190M NRG TENDL-2017, AKONING  
protons from (n,x)



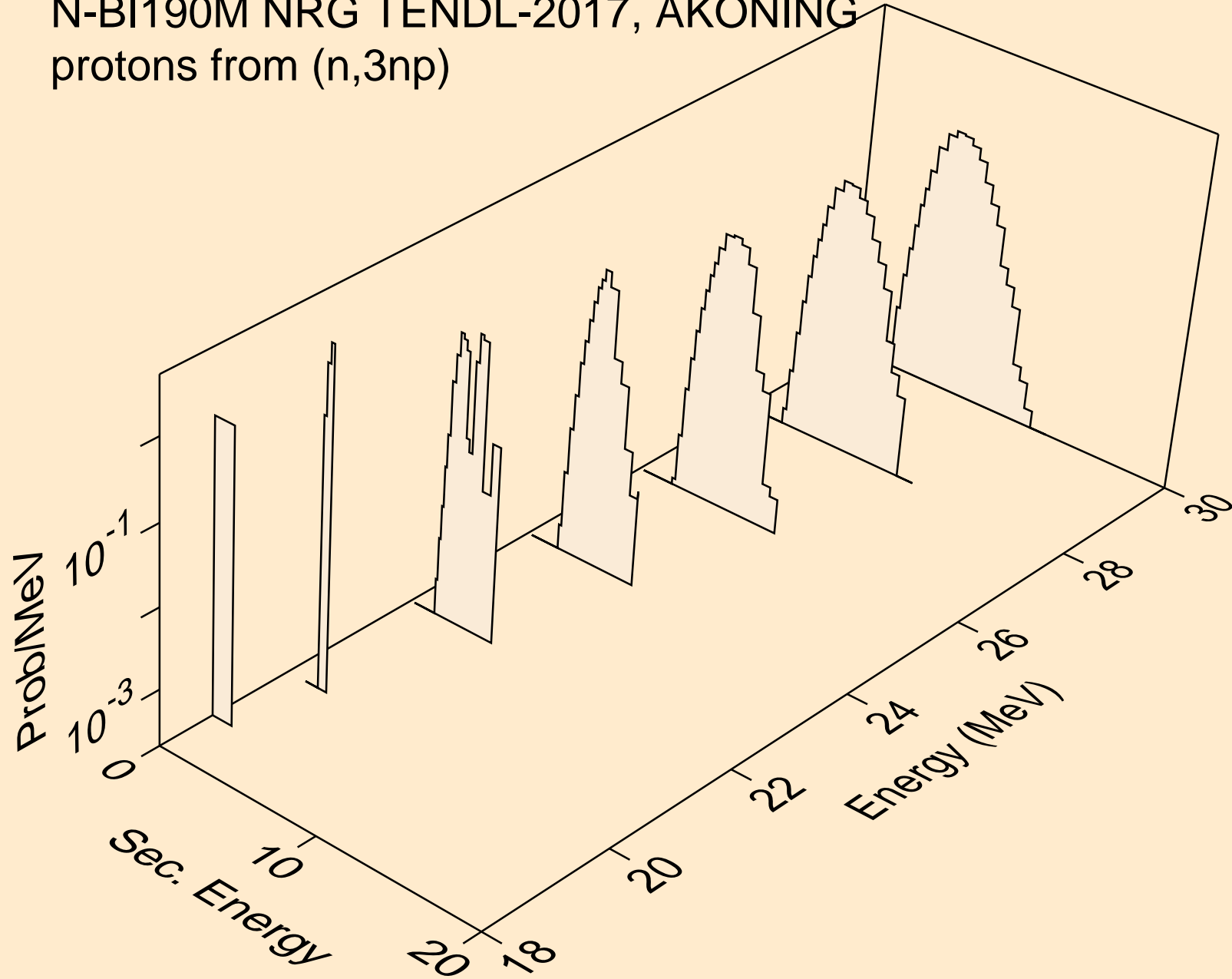
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protons from (n,n\*)p



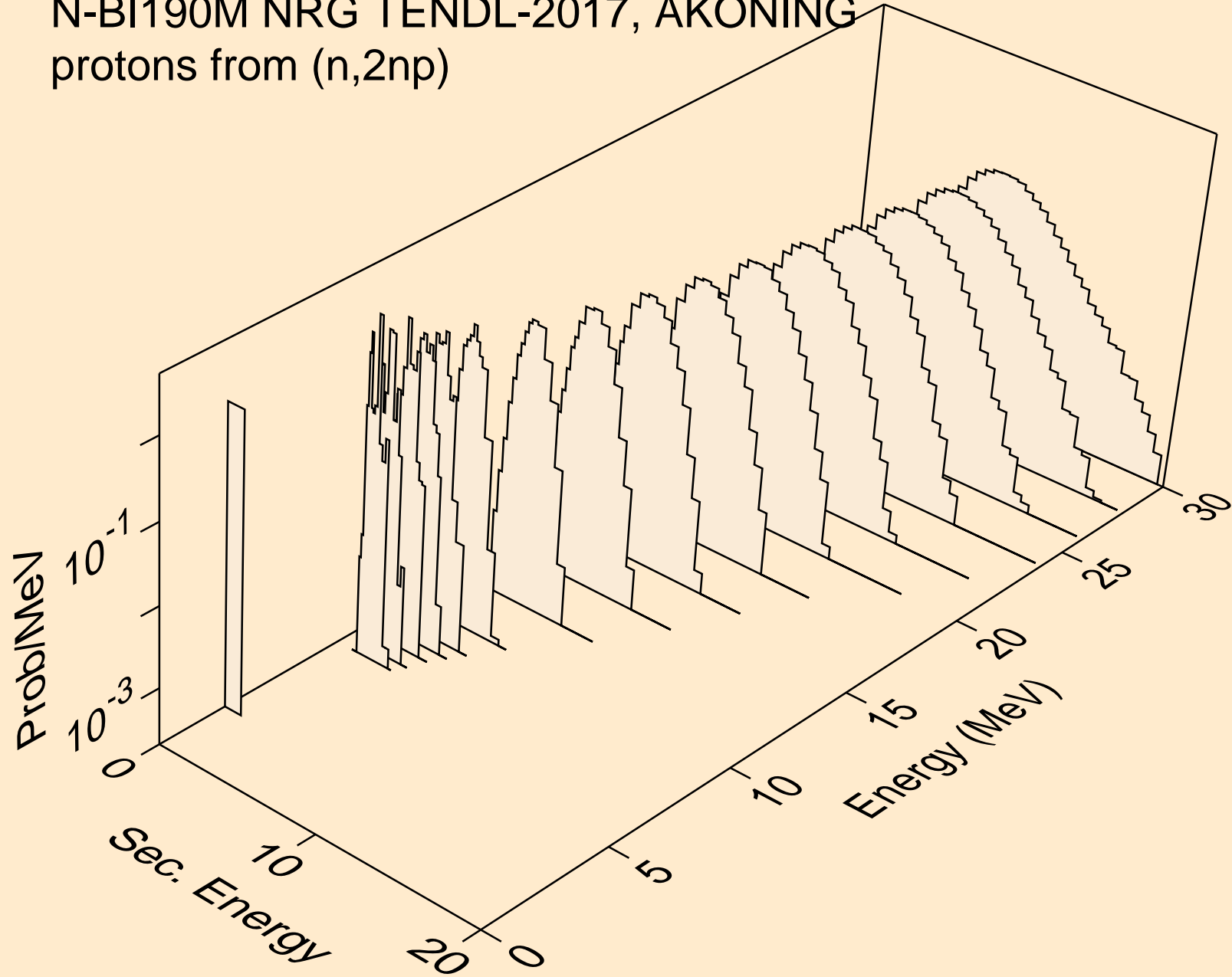
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protons from (n,2np)



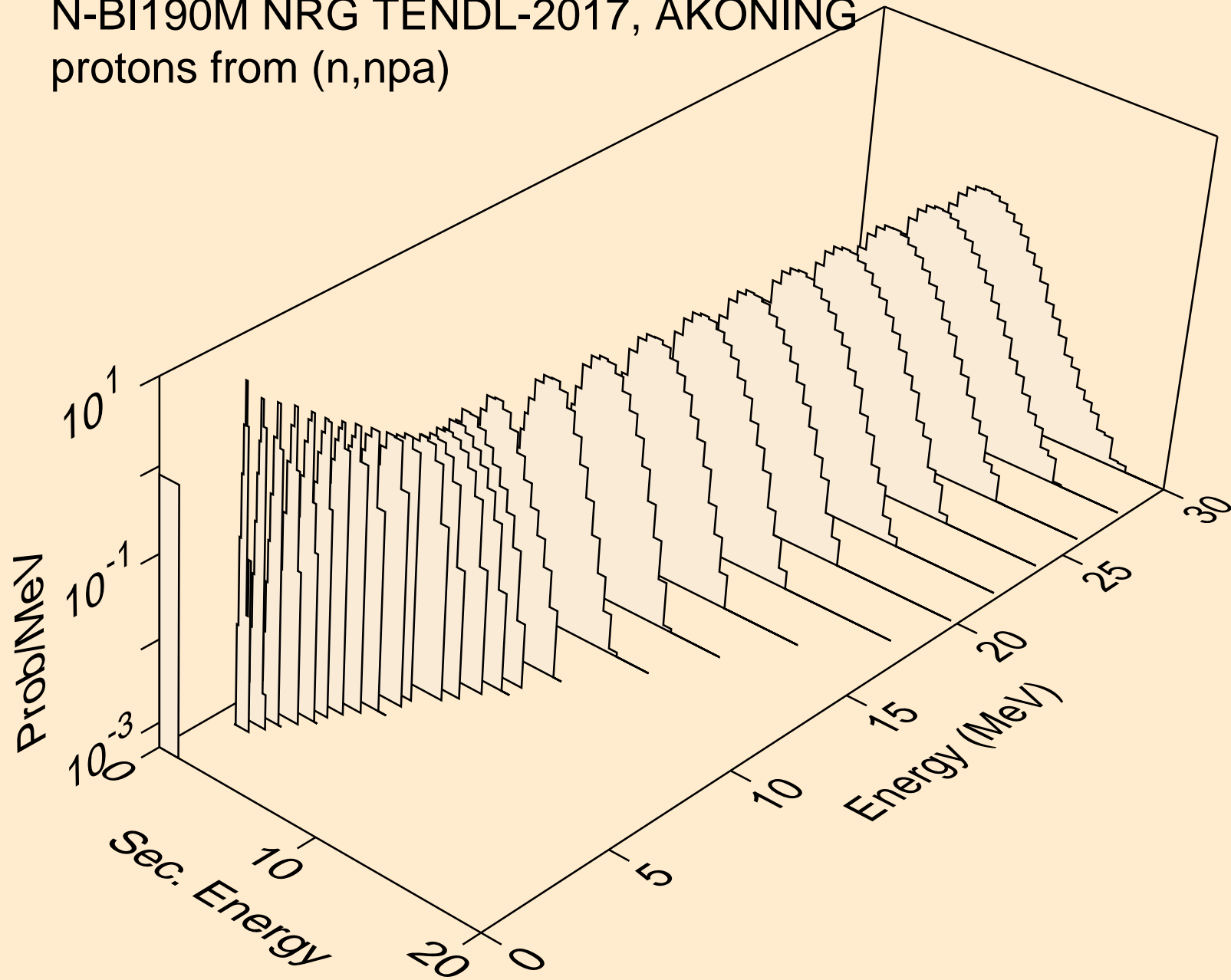
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protons from (n,3np)



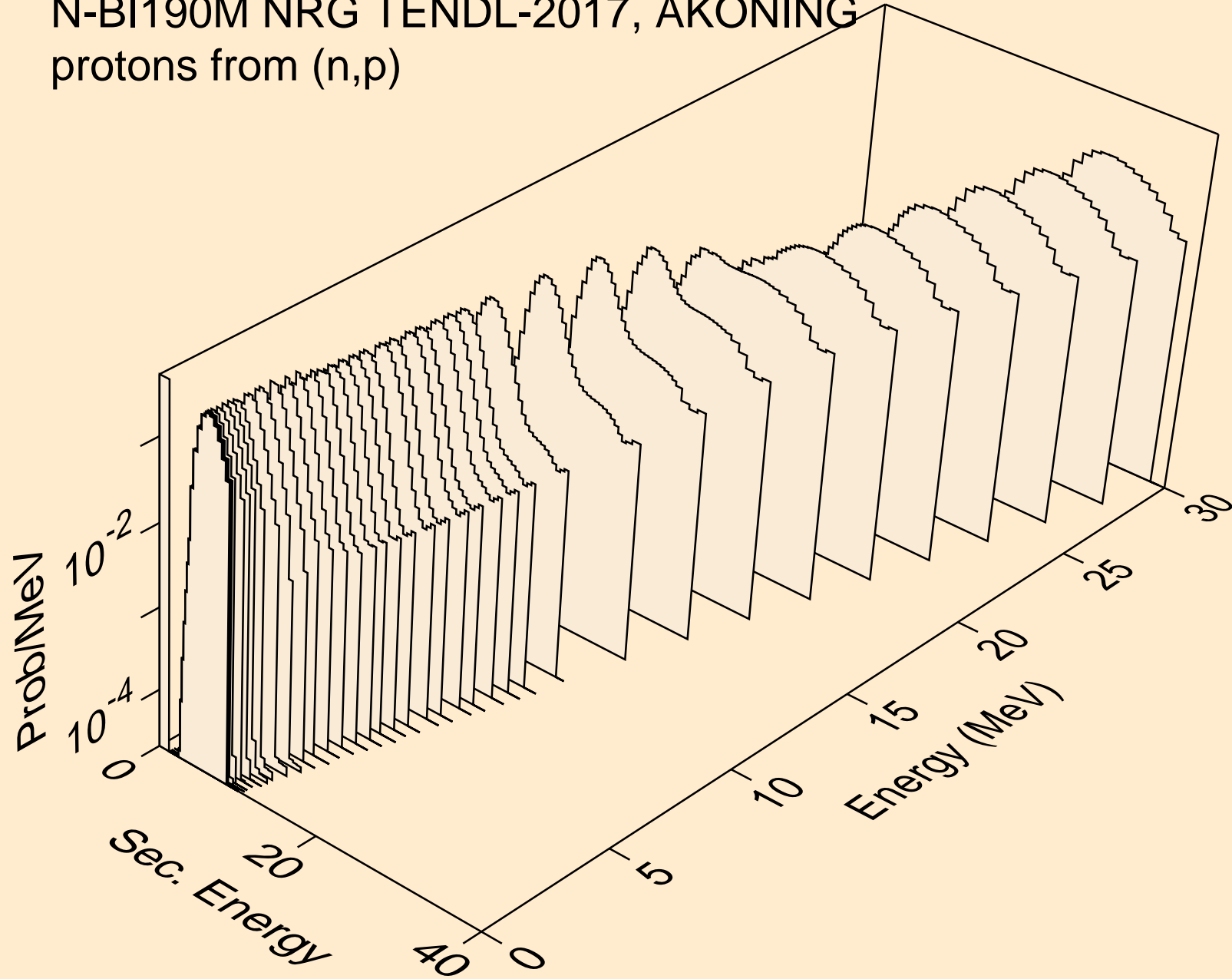
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protons from (n,2np)



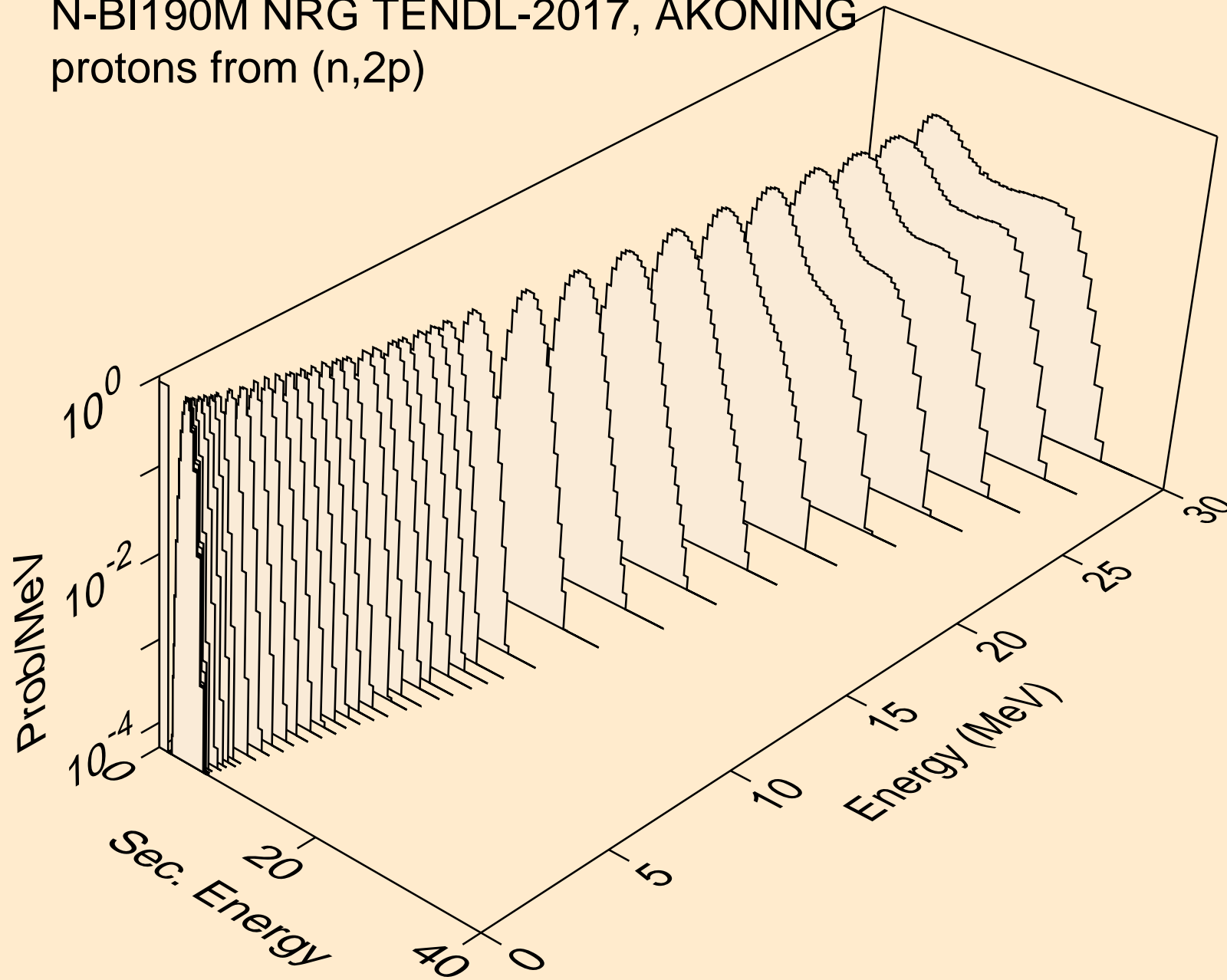
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protons from (n,npa)



N-BI190M NRG TENDL-2017, AKONING  
protons from (n,p)

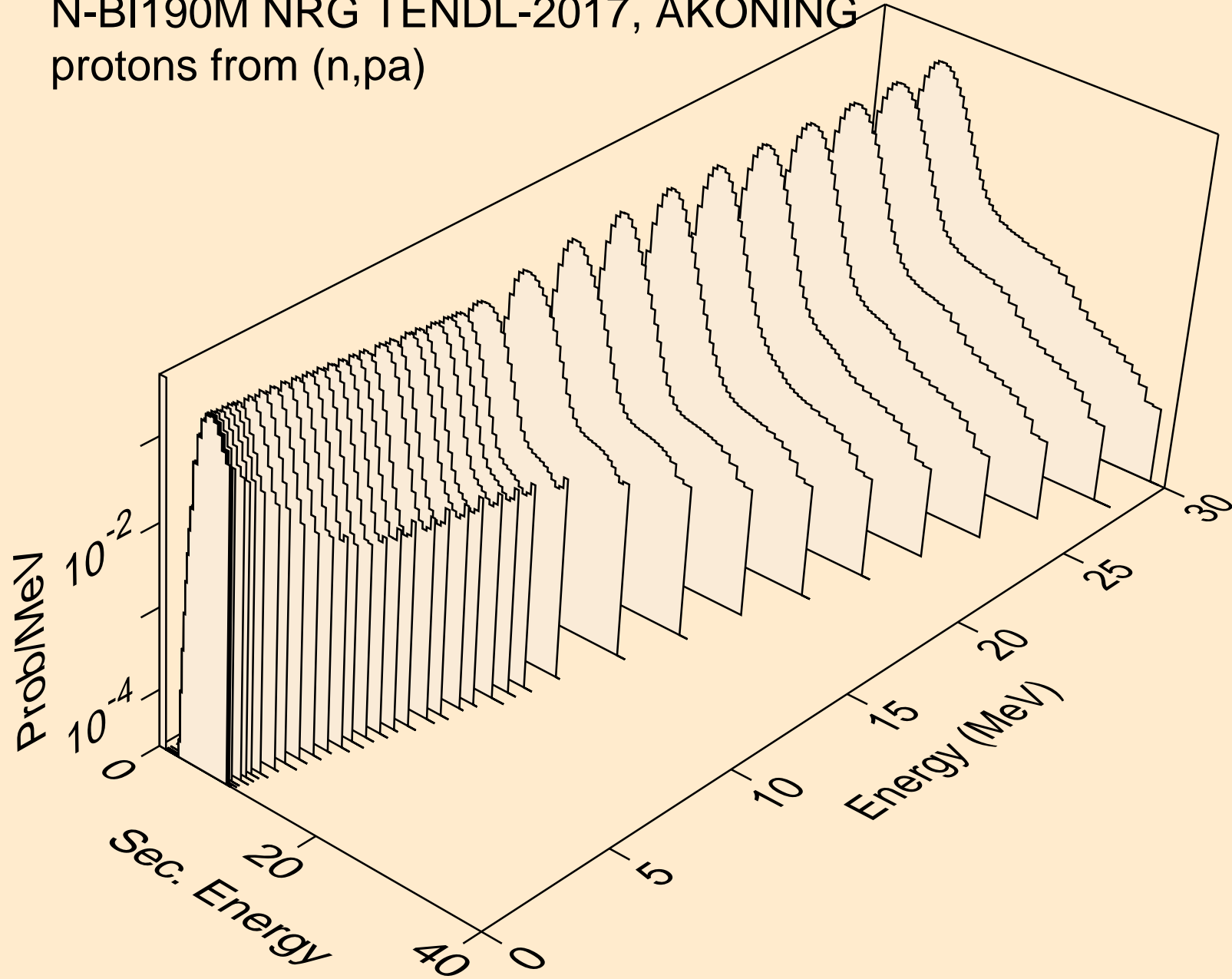


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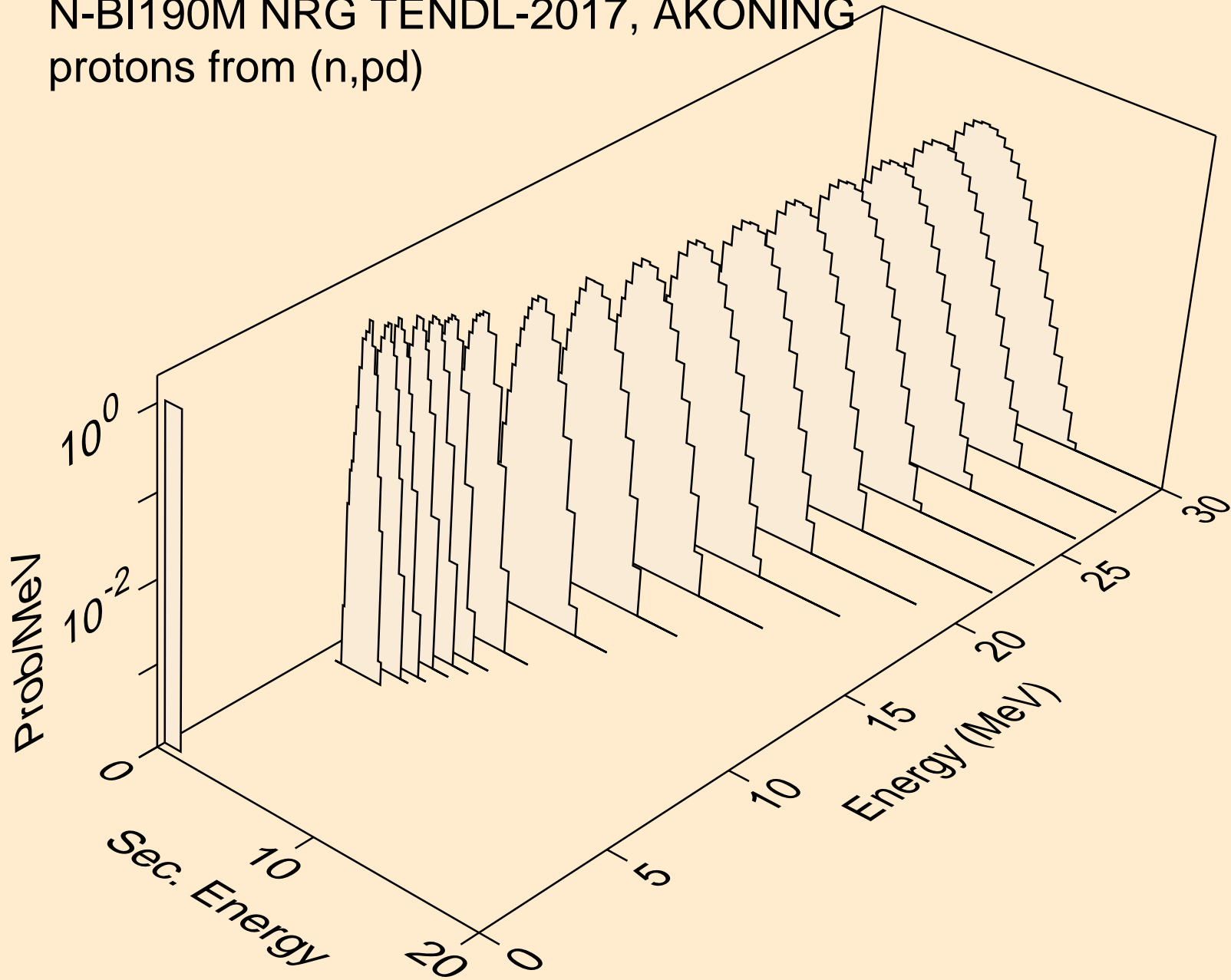




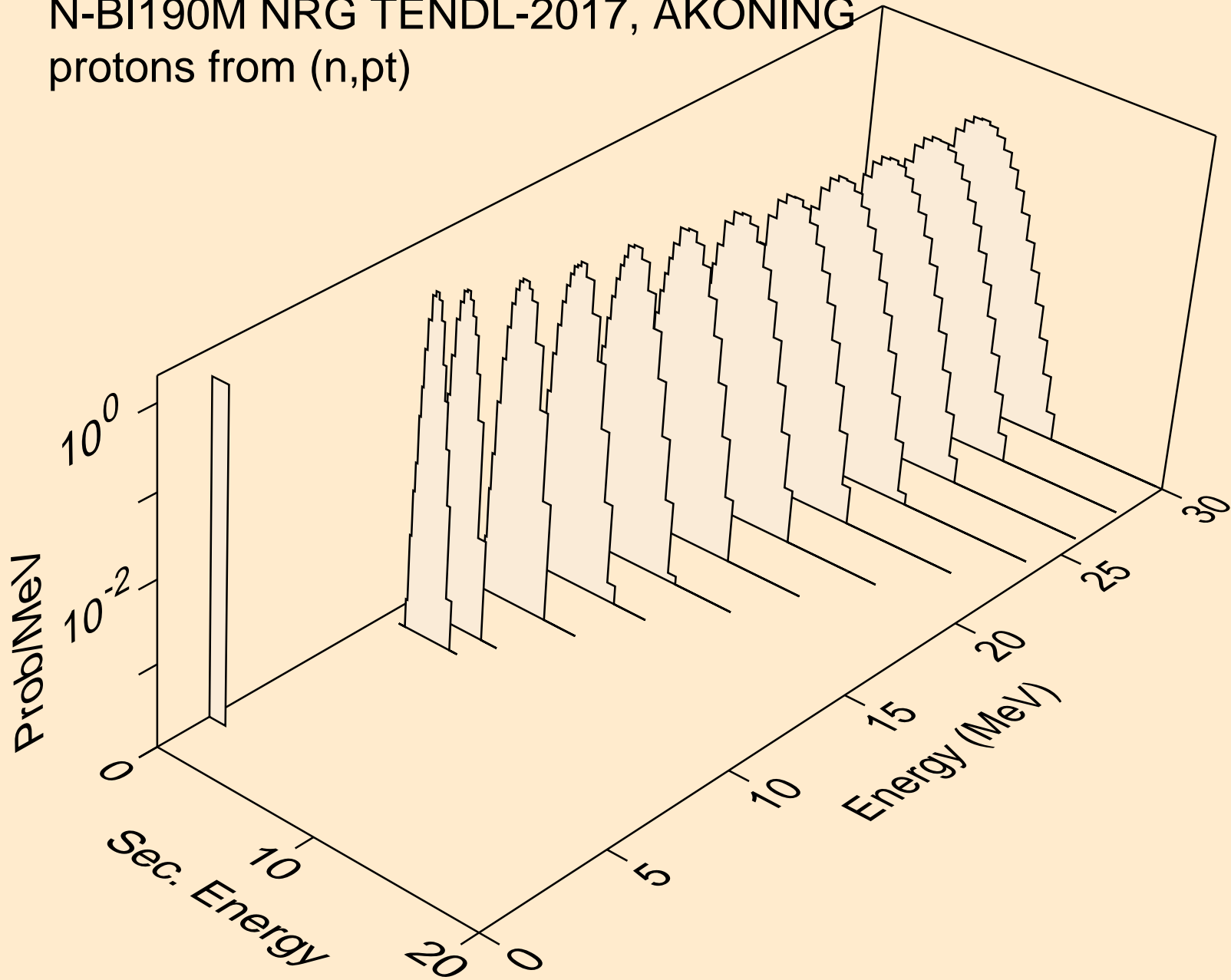
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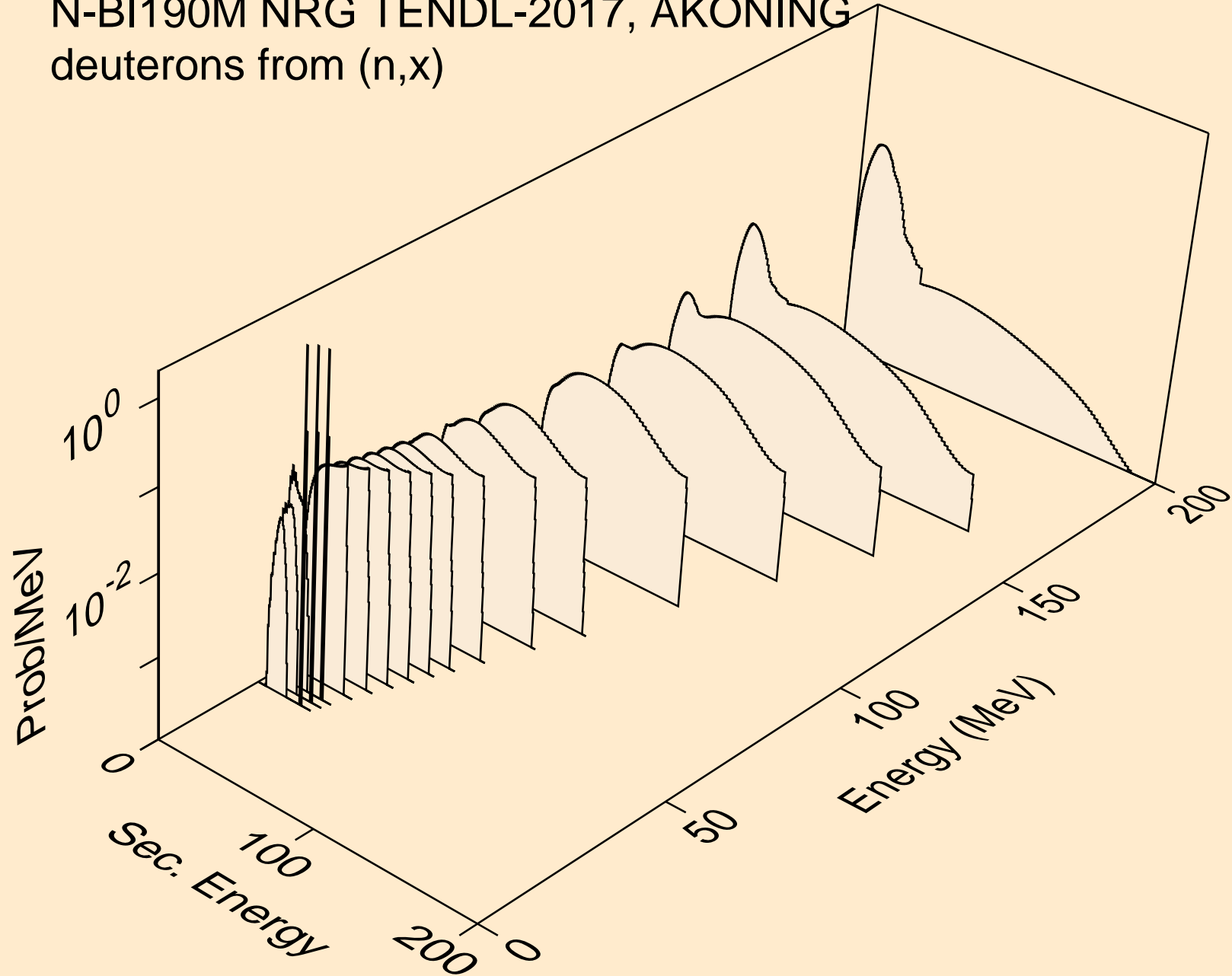
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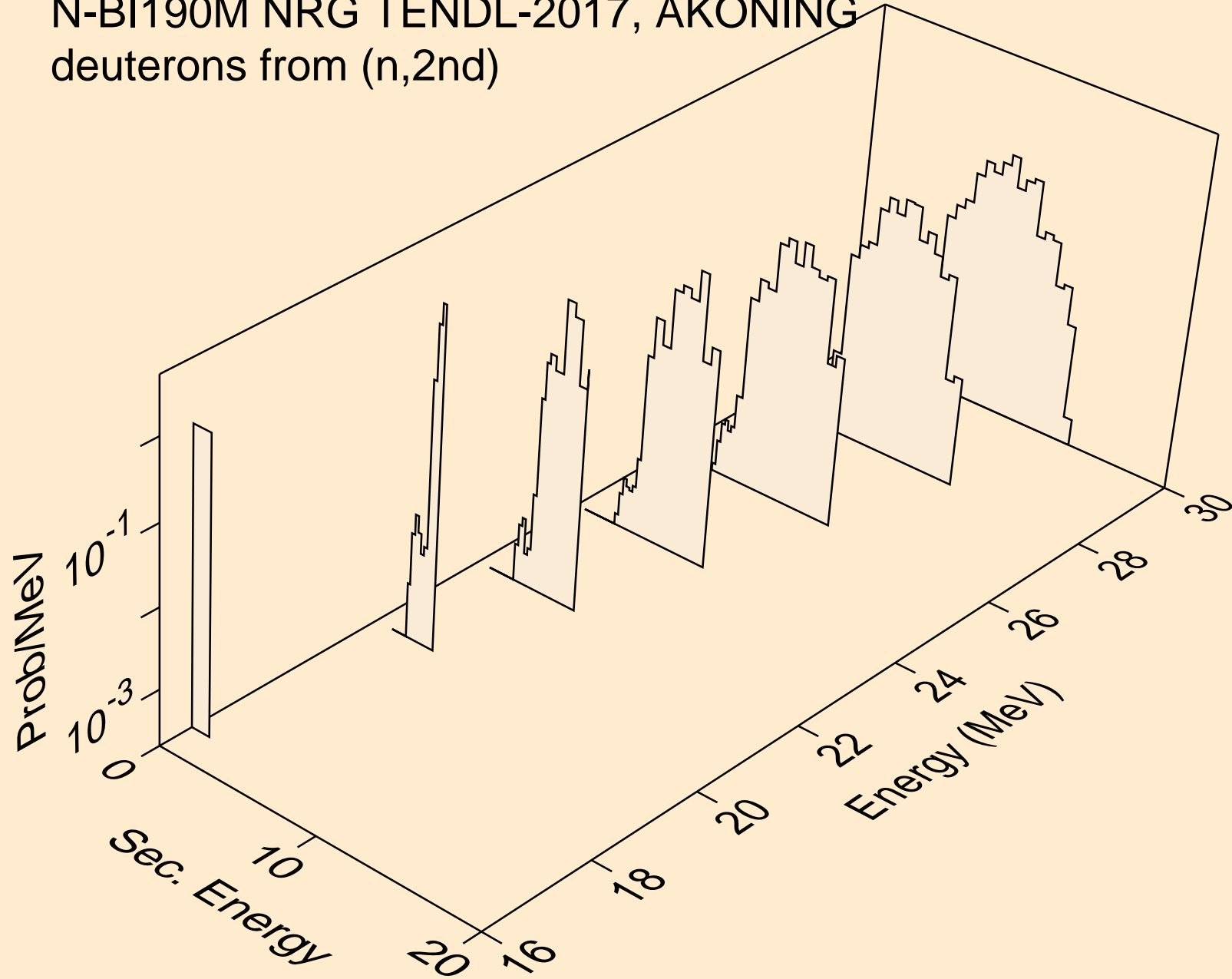
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protons from (n,pt)



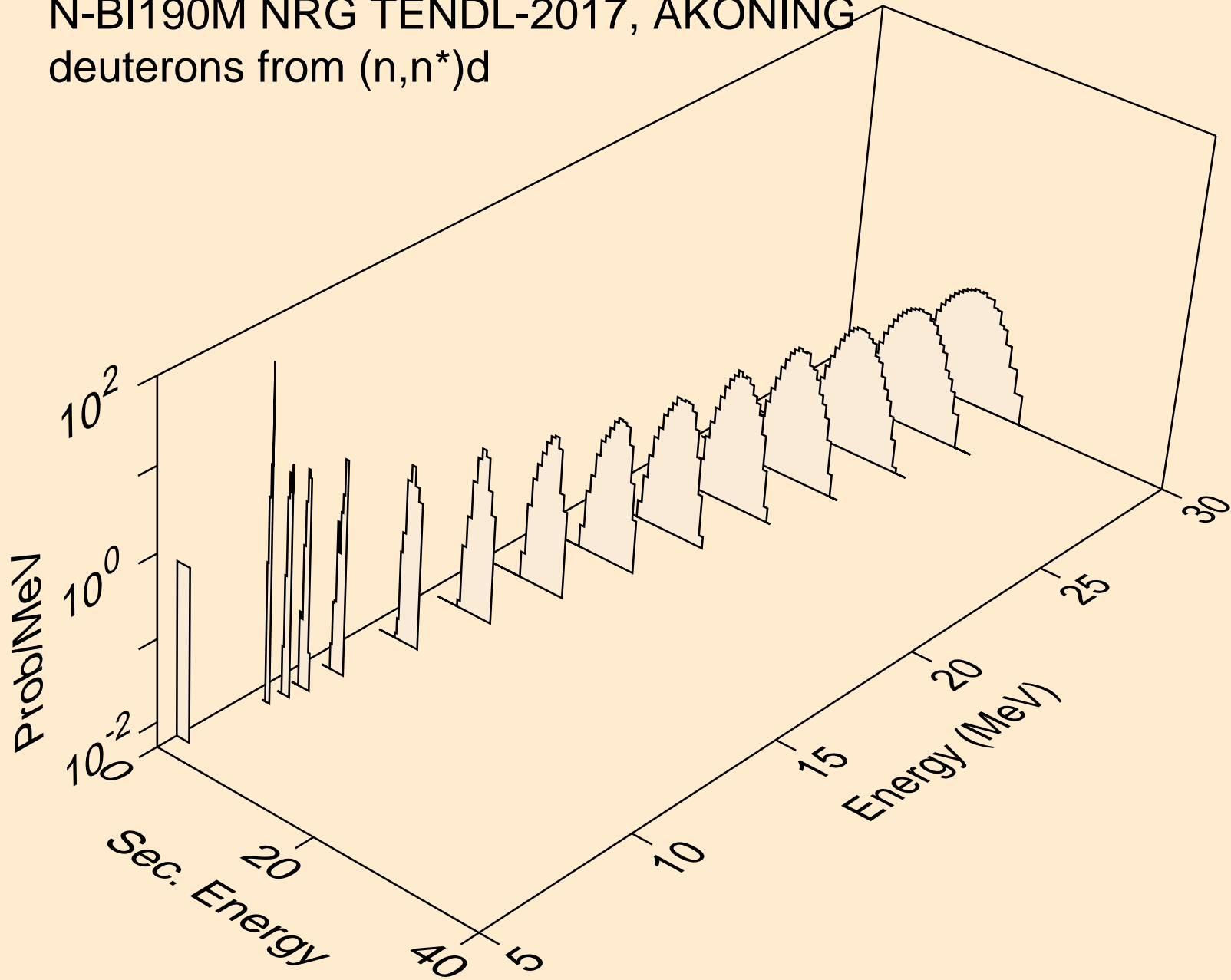
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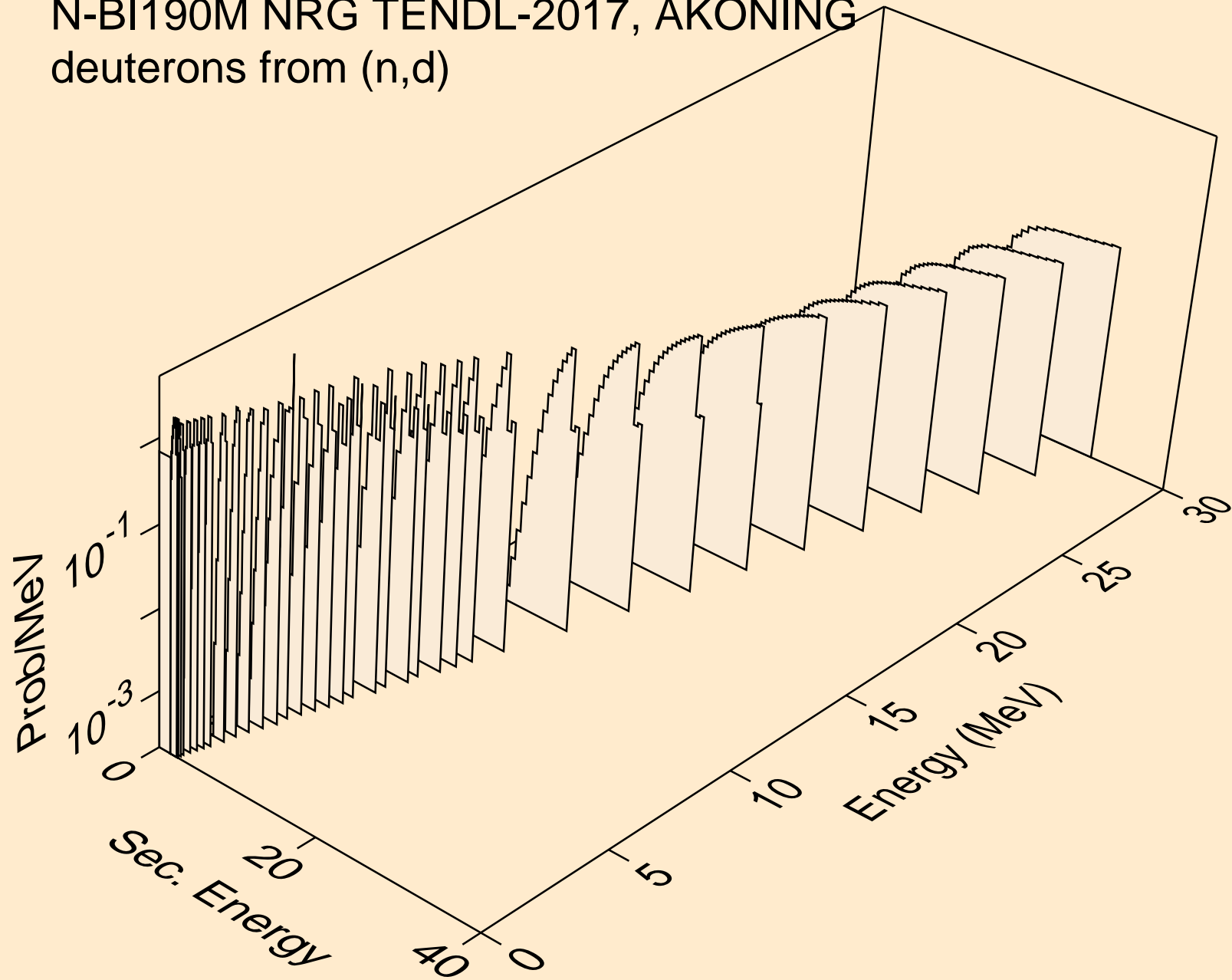
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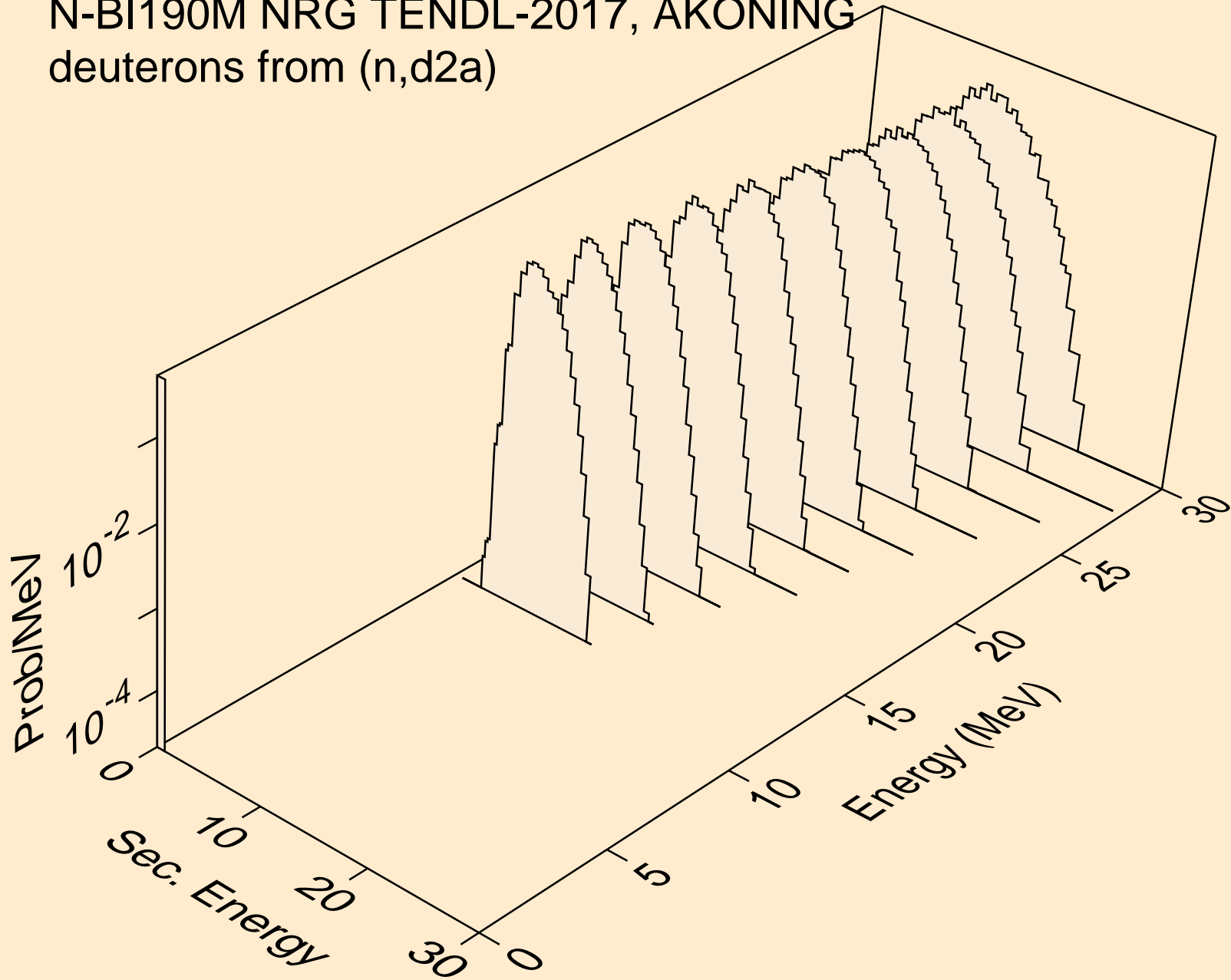
N-BI190M NRG TENDL-2017, AKONING  
deuterons from (n,n\*)d



N-BI190M NRG TENDL-2017, AKONING  
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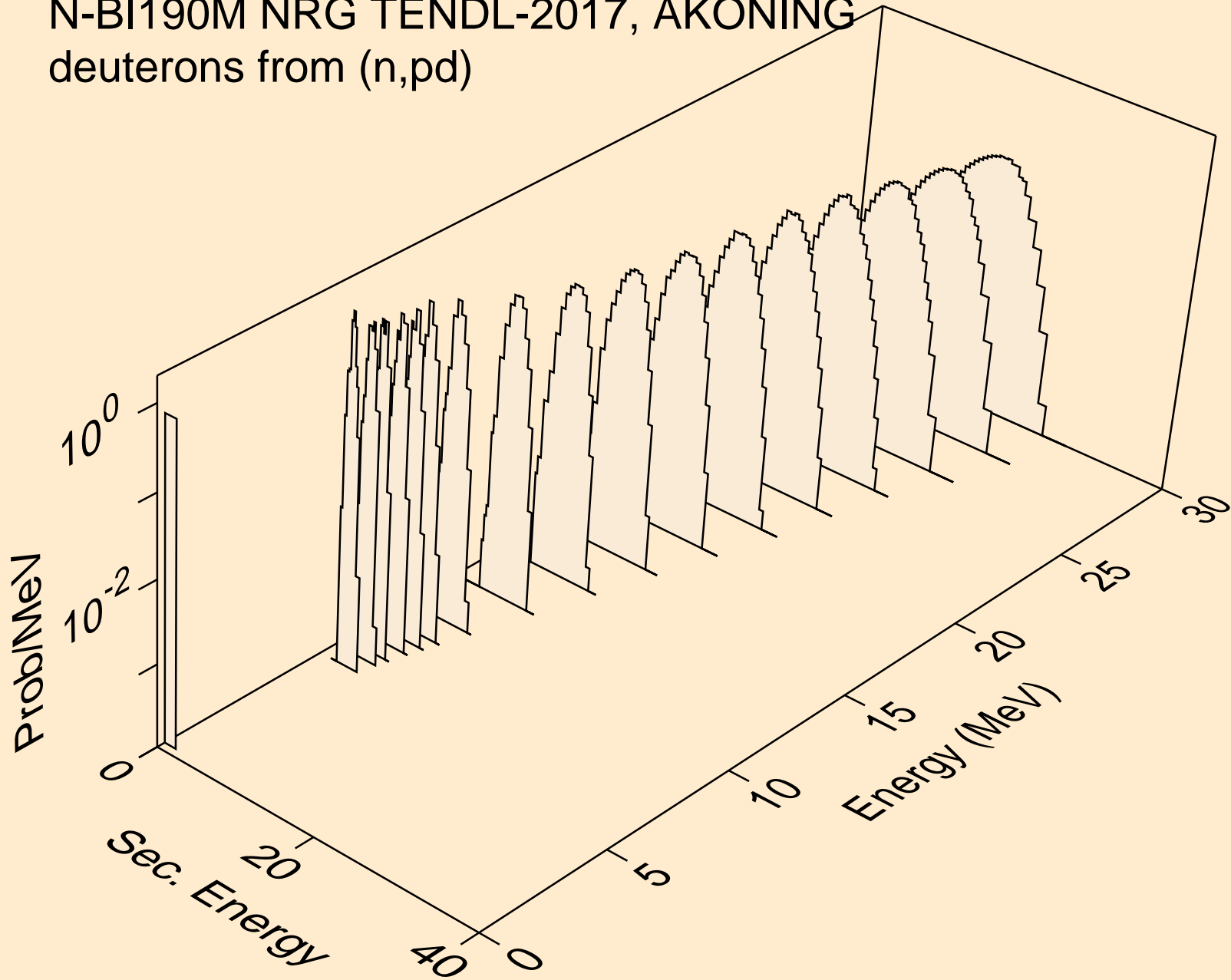


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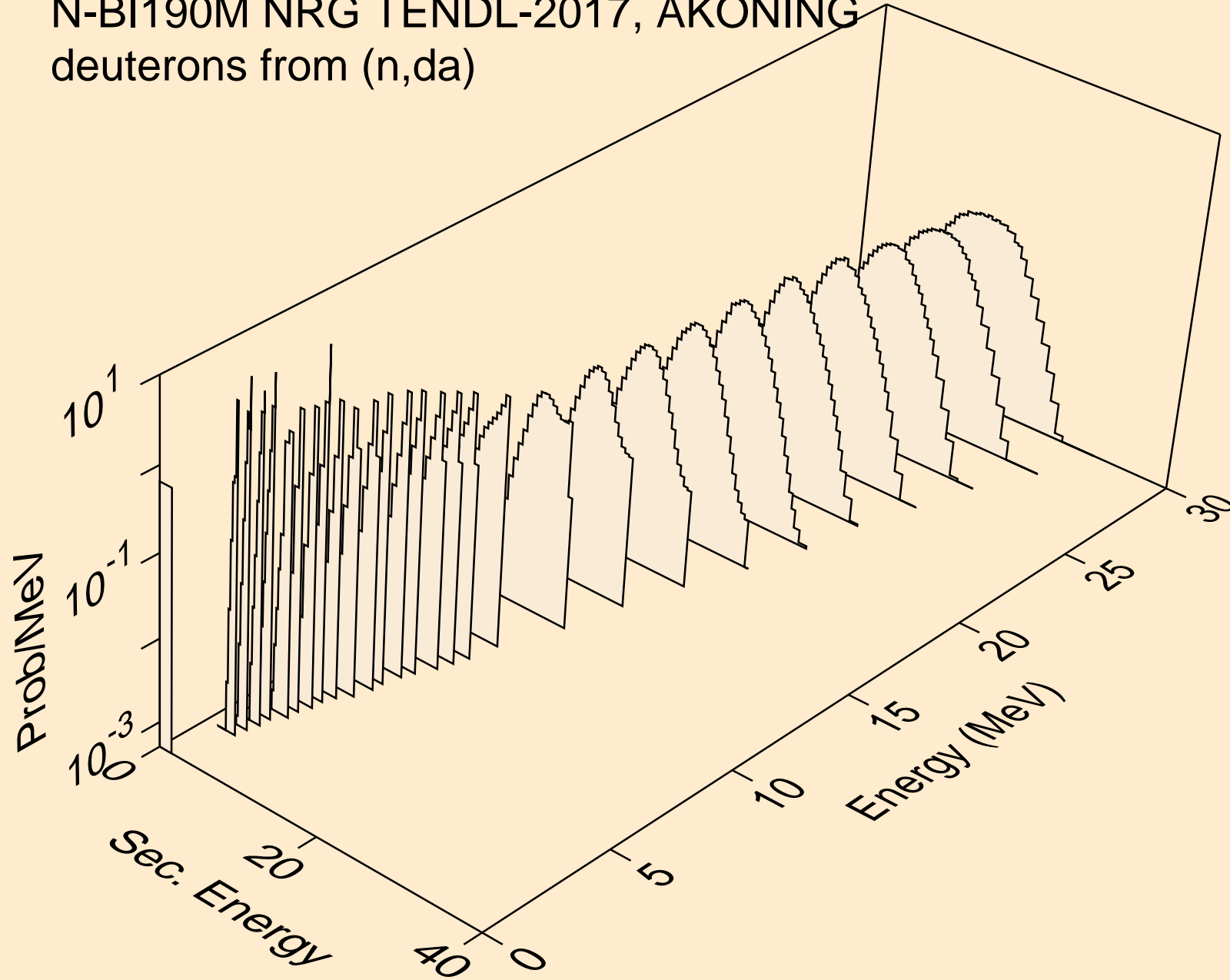




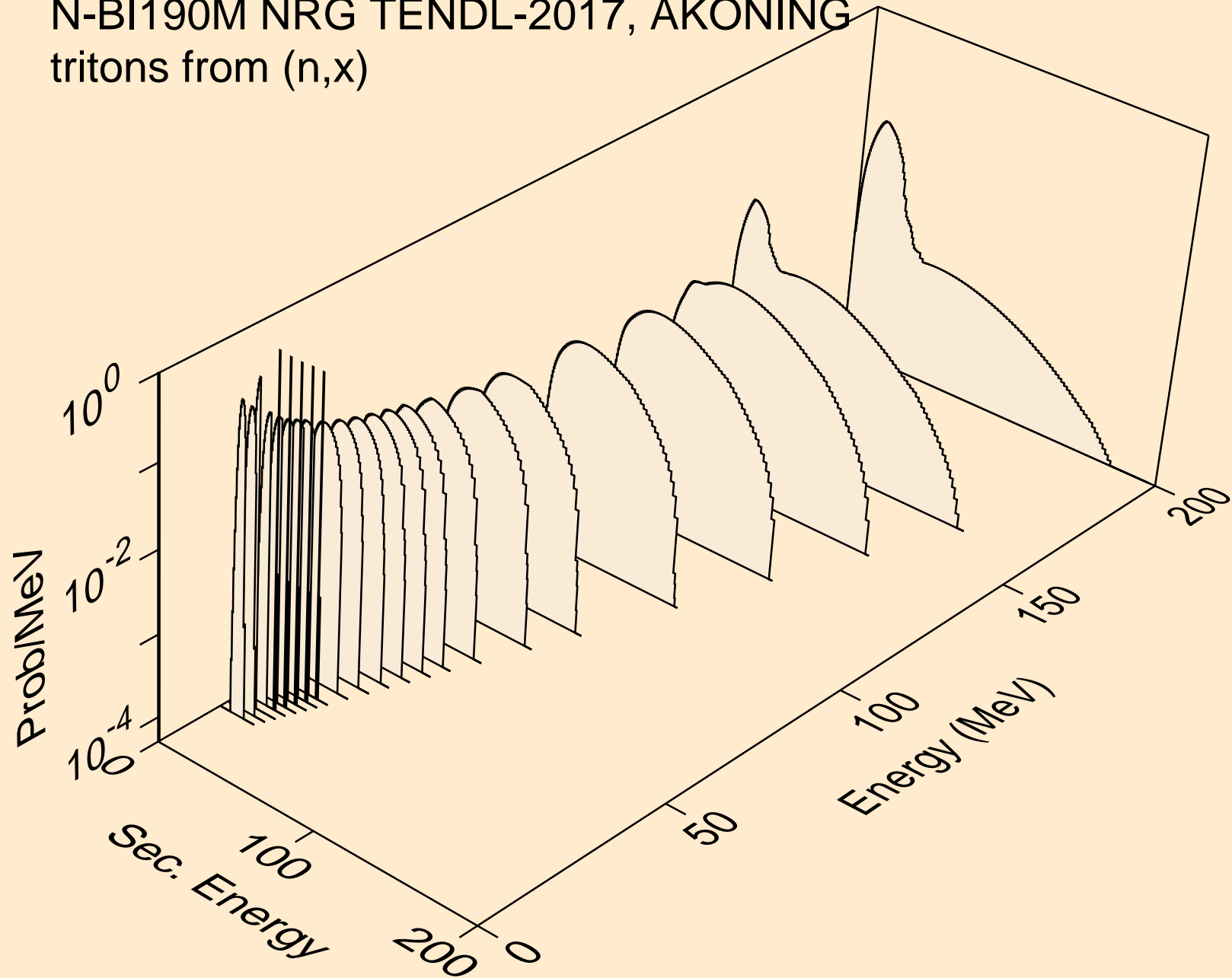
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deuterons from (n,pd)



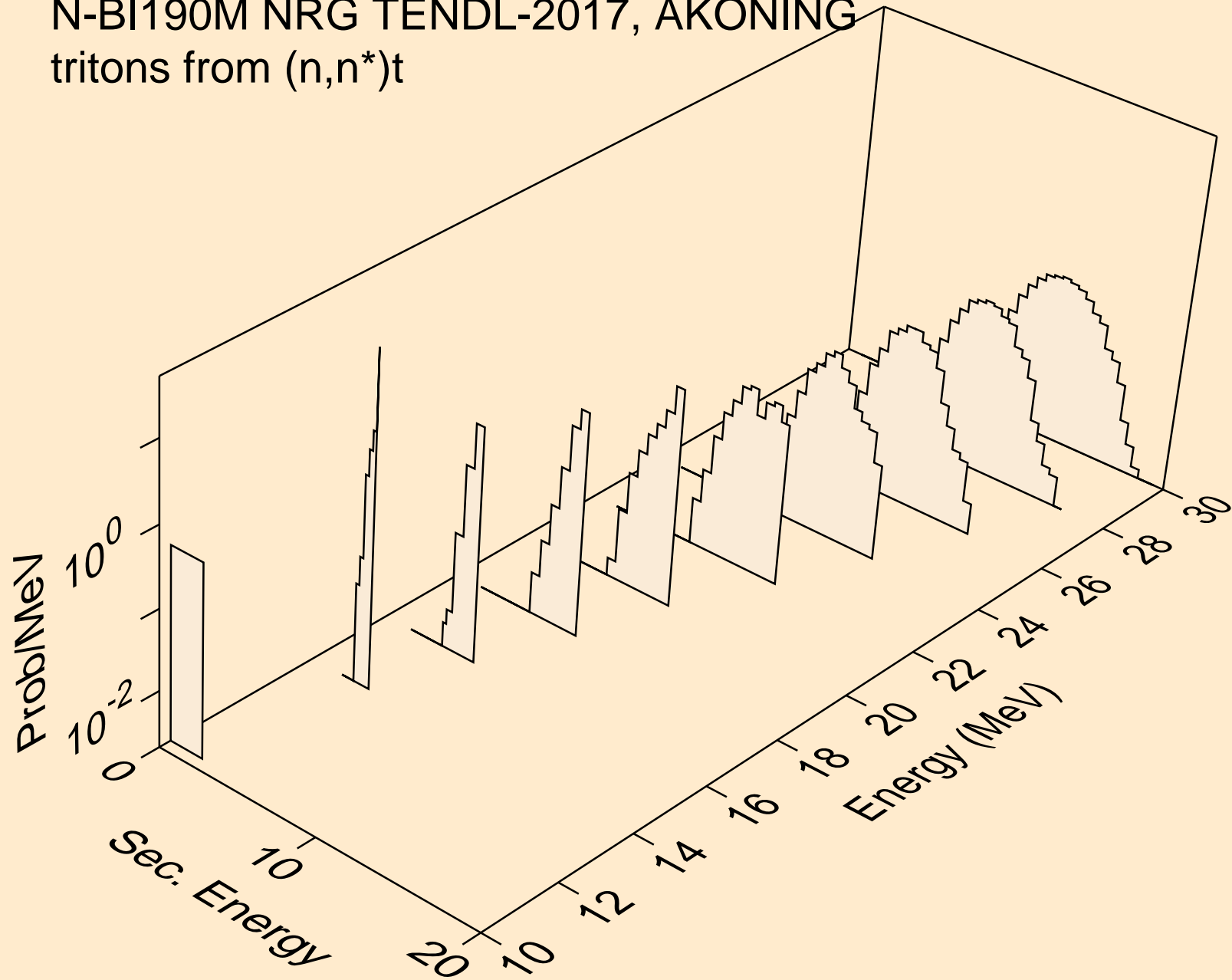
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deuterons from (n,da)



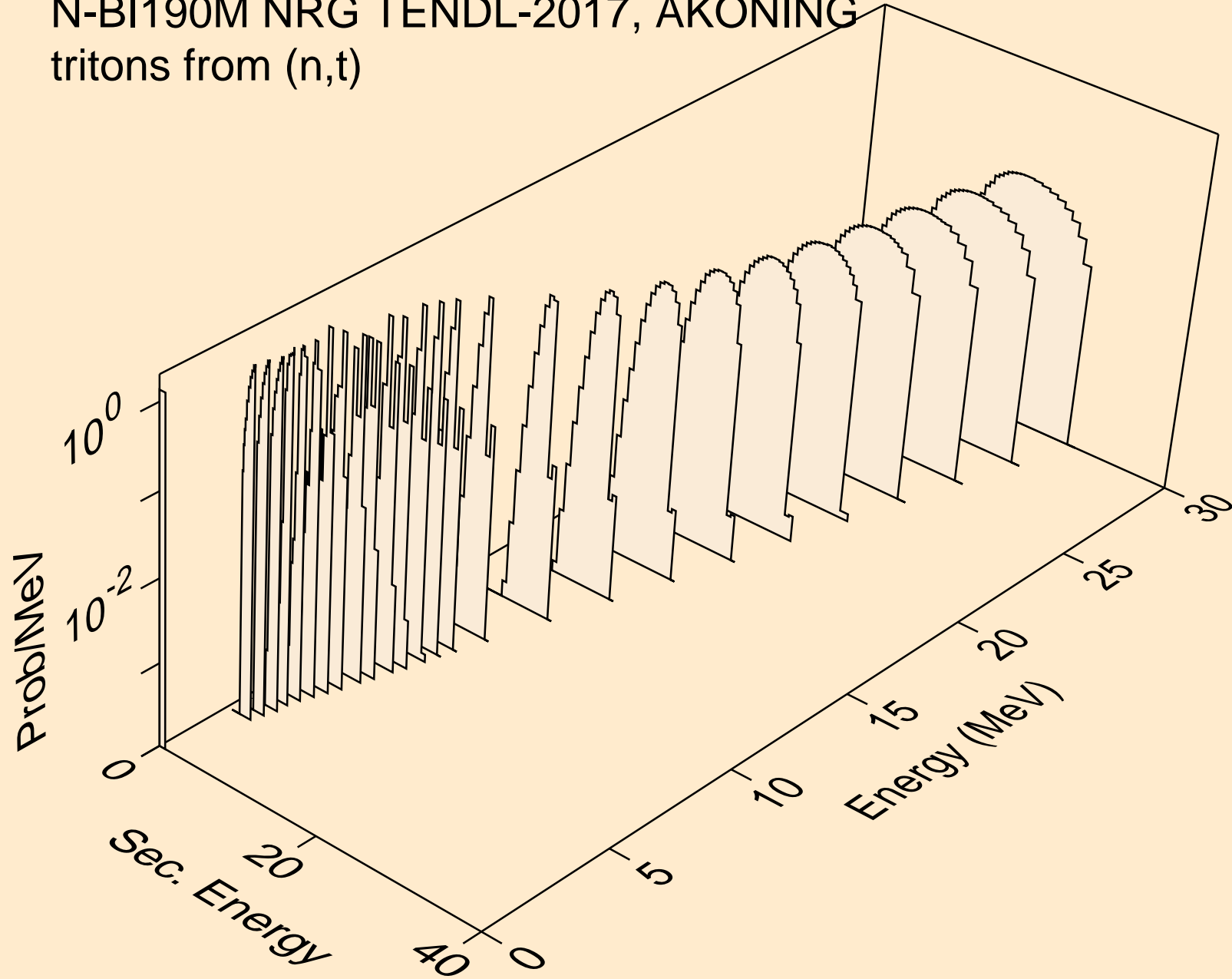
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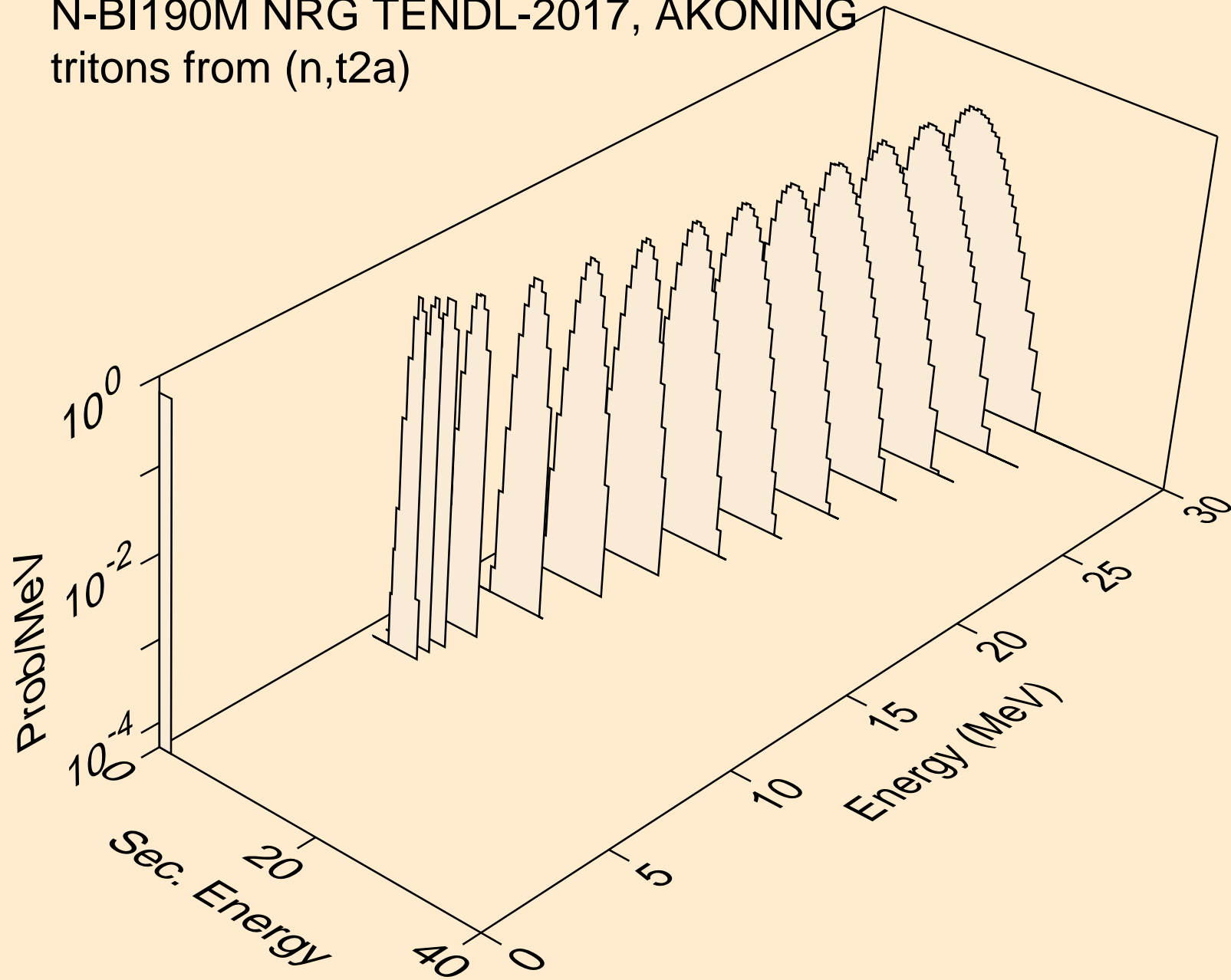
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tritons from (n,n\*)t



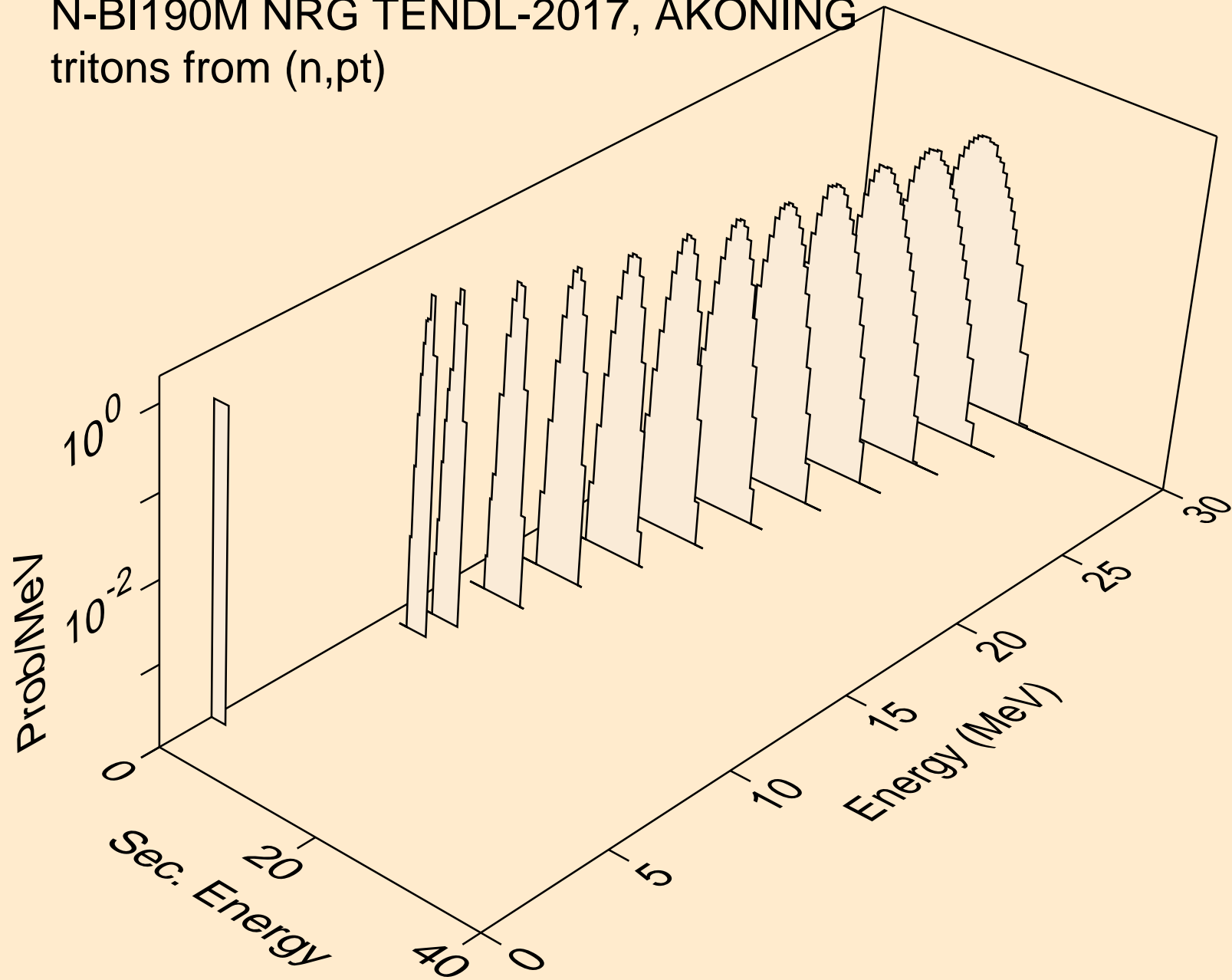
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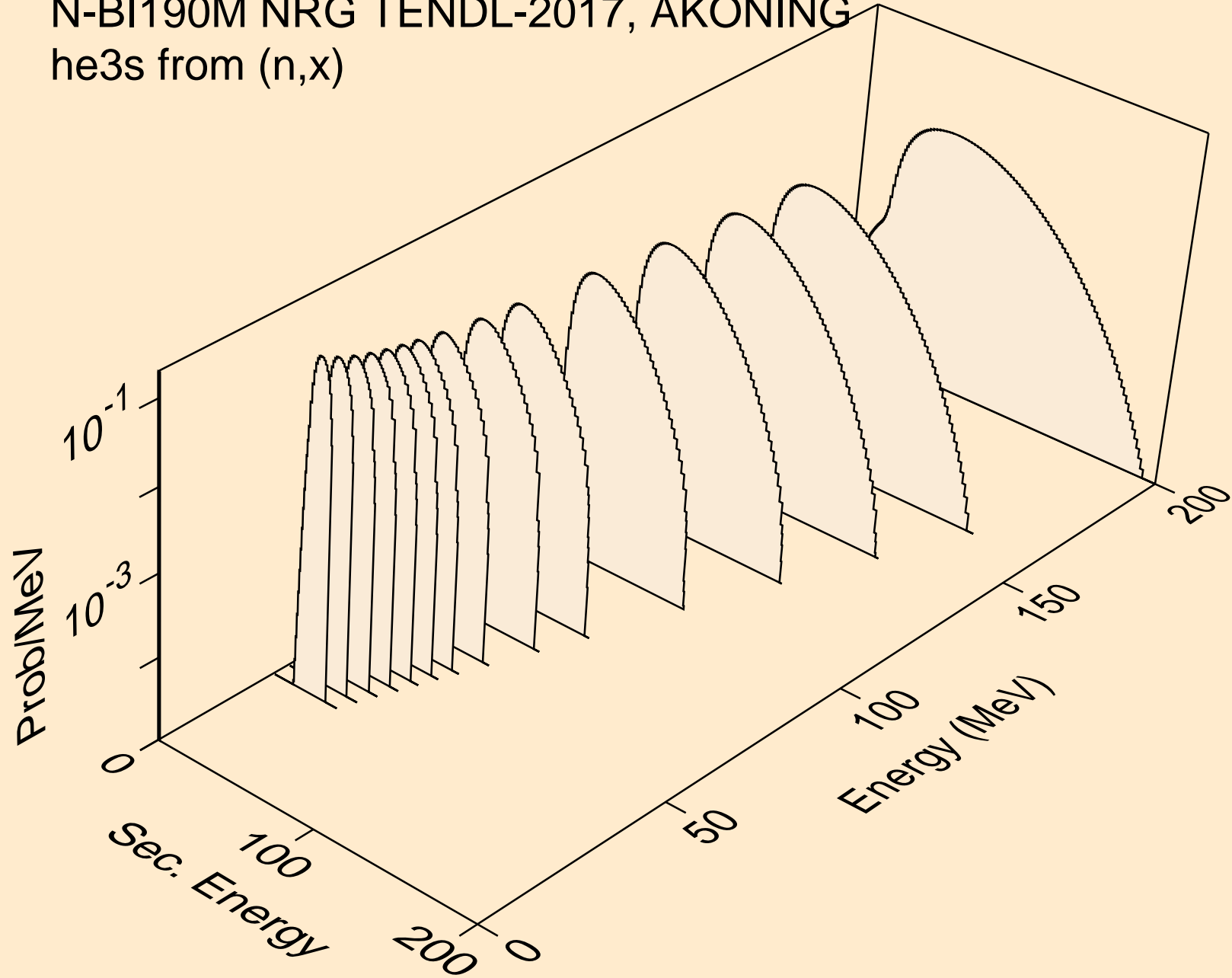
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tritons from (n,t2a)



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tritons from (n,pt)

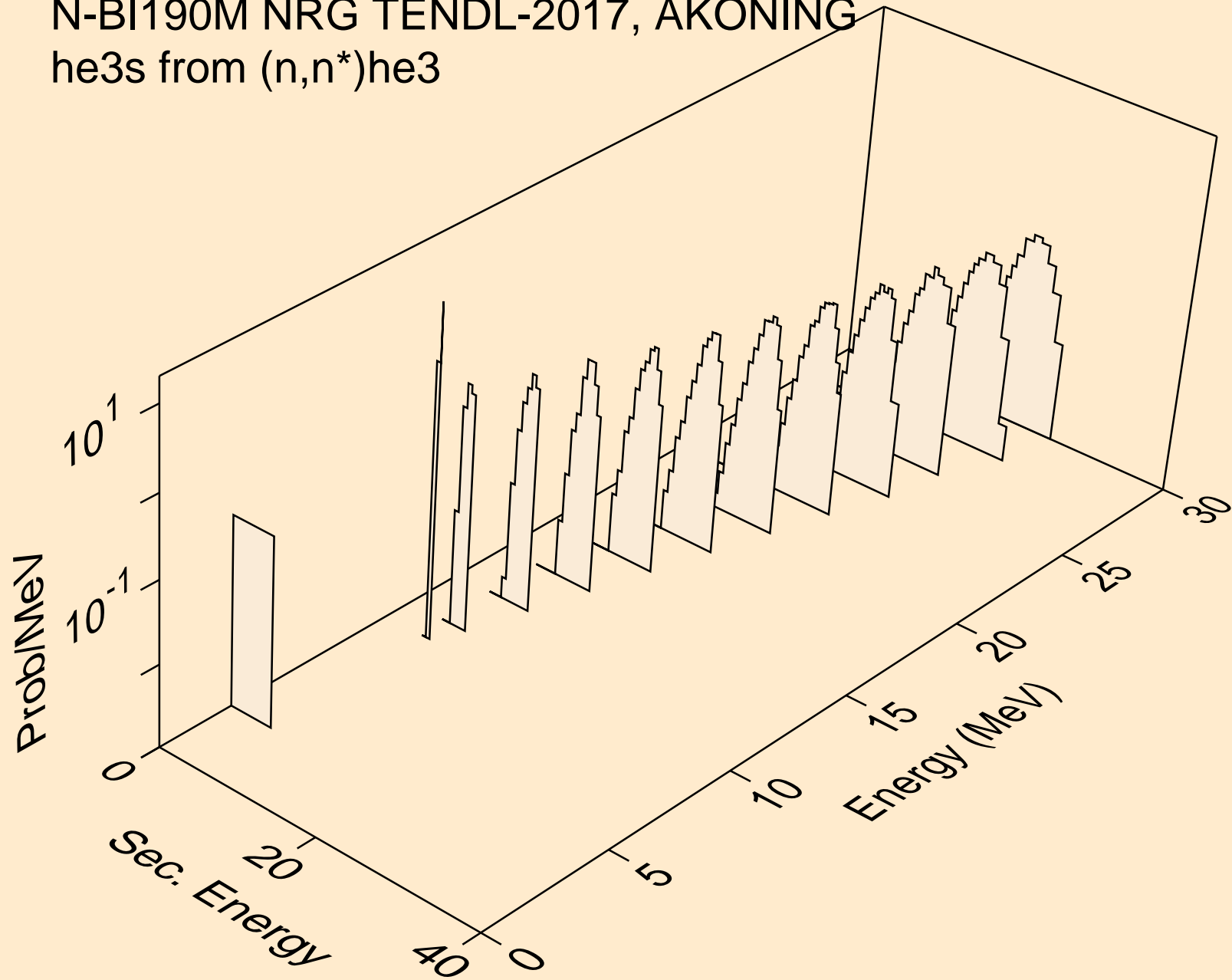


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he3s from (n,x)

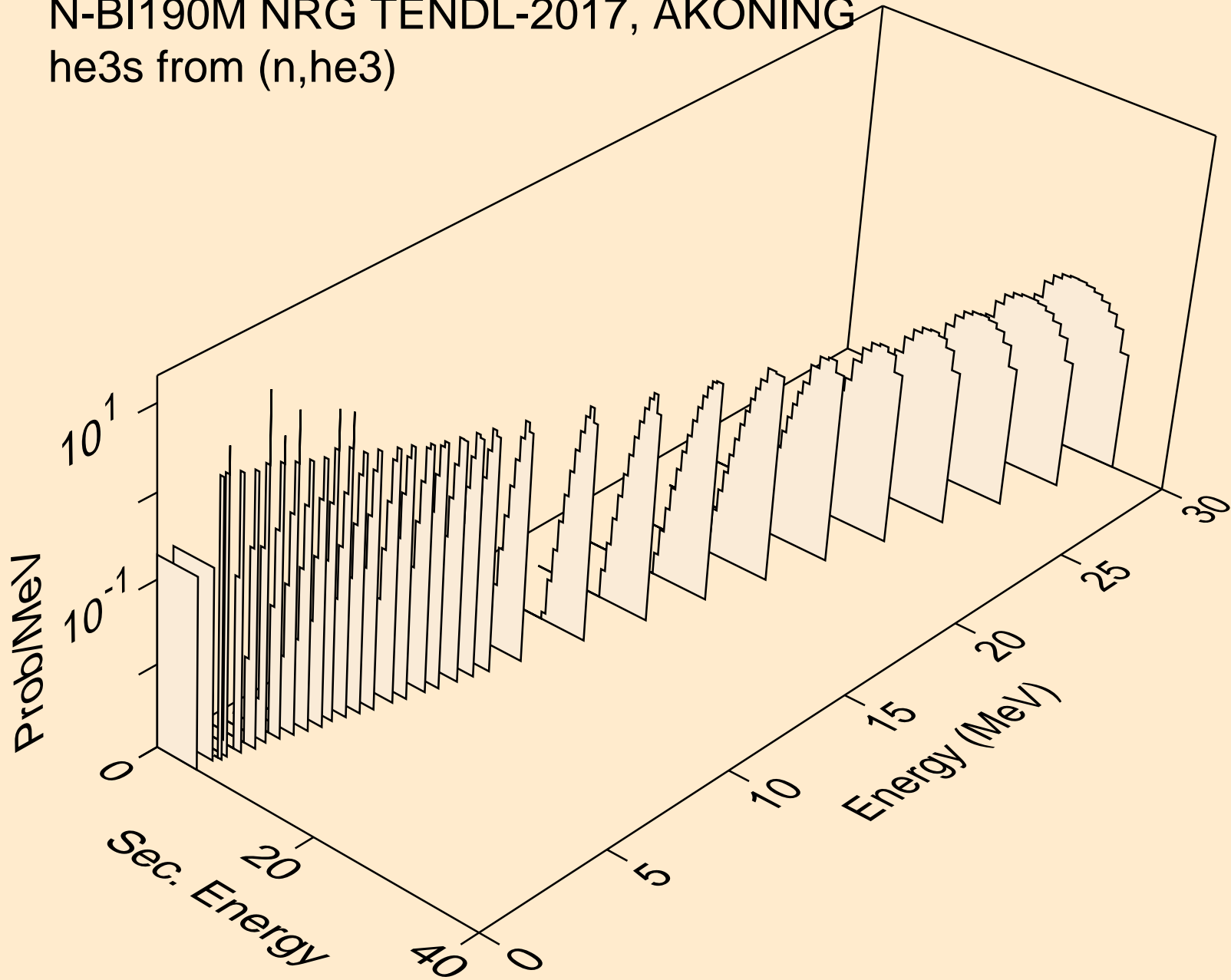




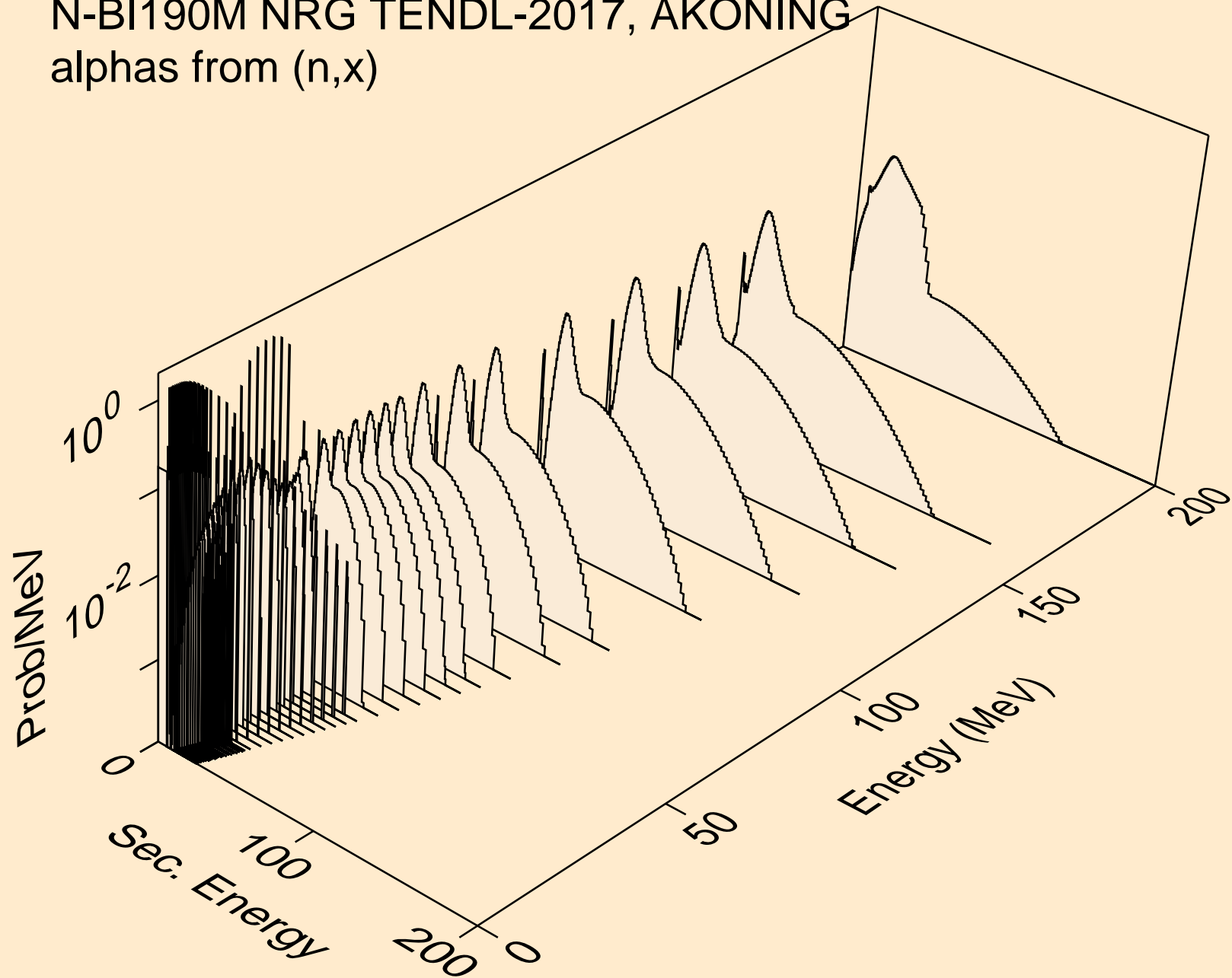
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he3s from (n,n\*)he3



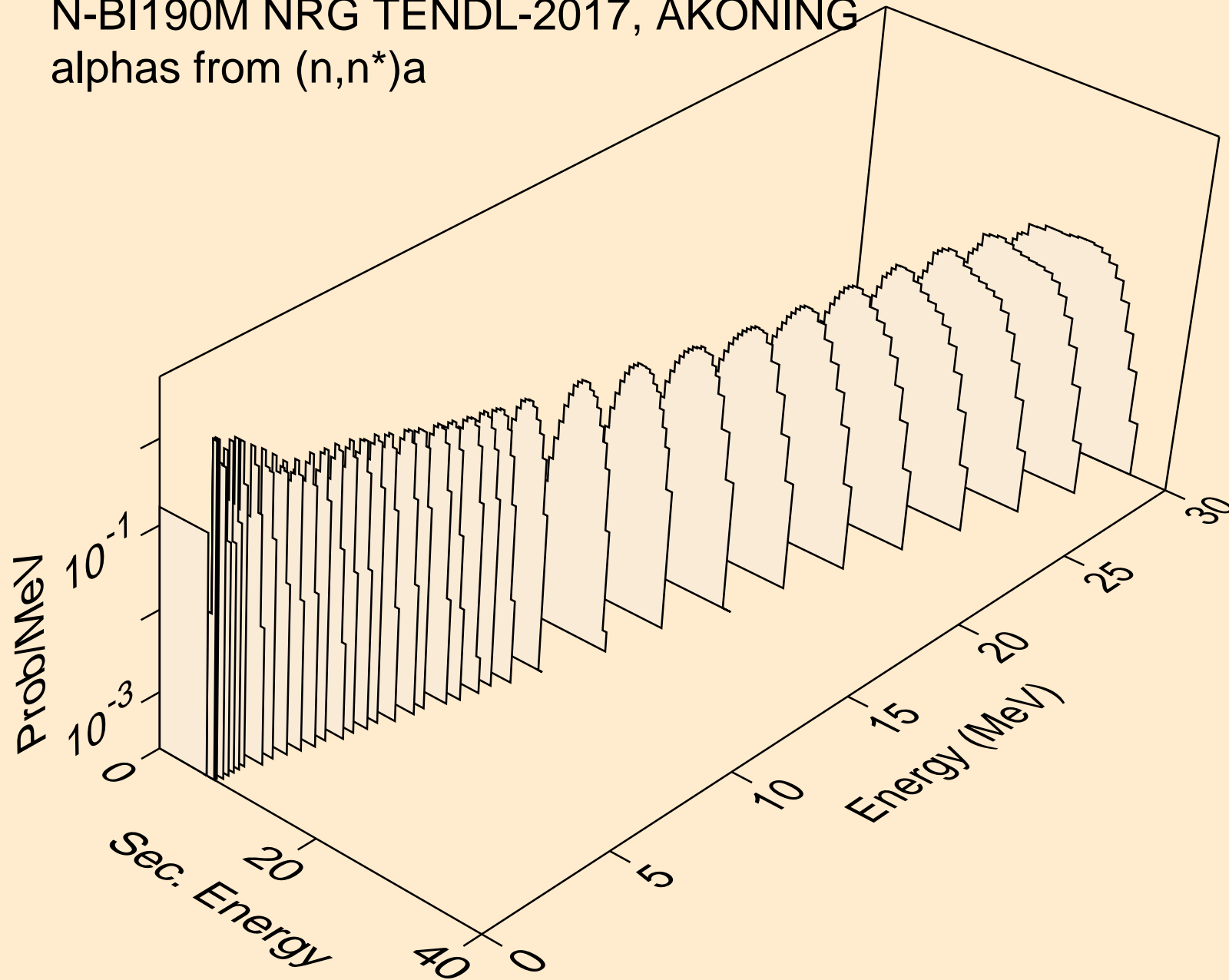
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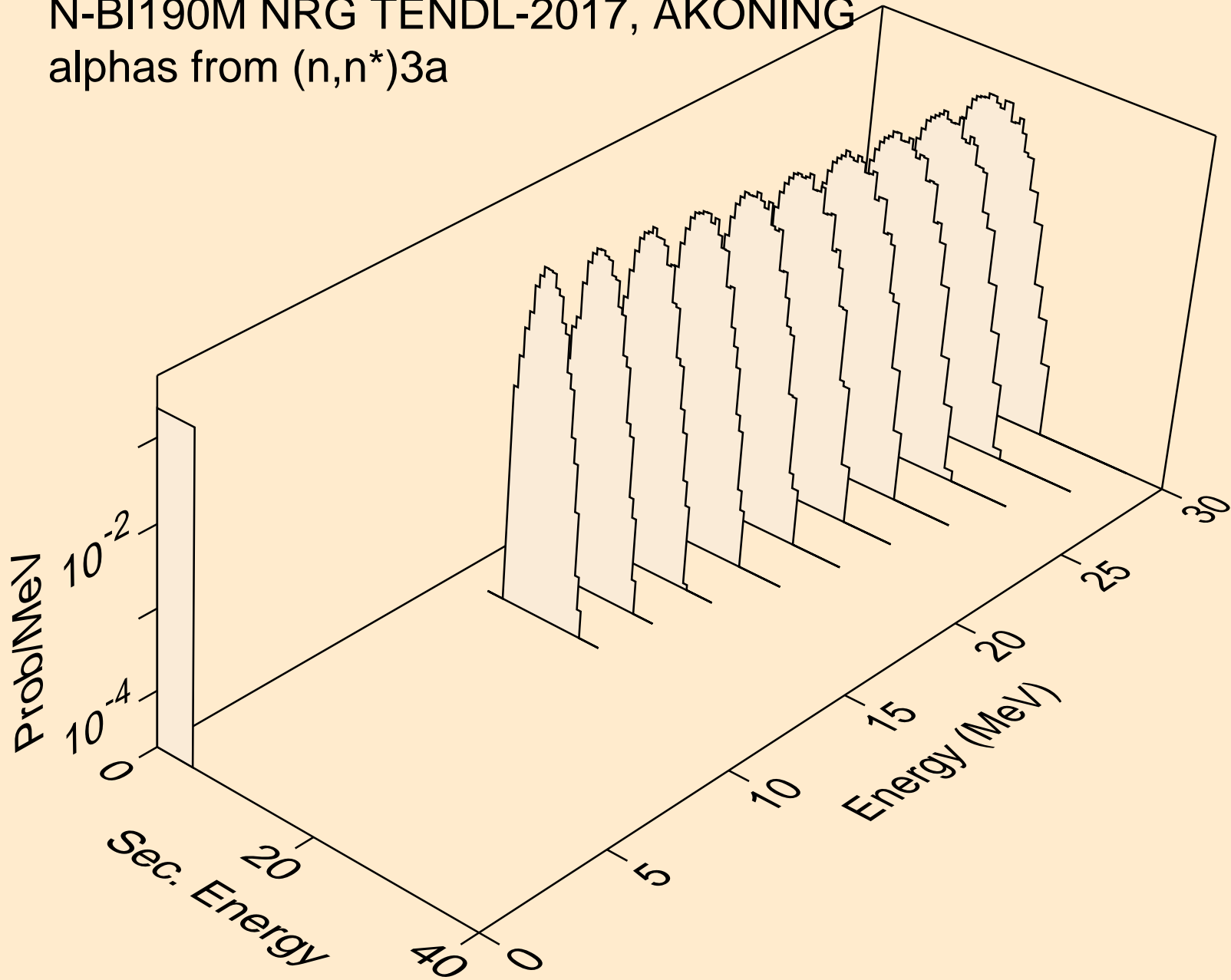
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alphas from (n,x)



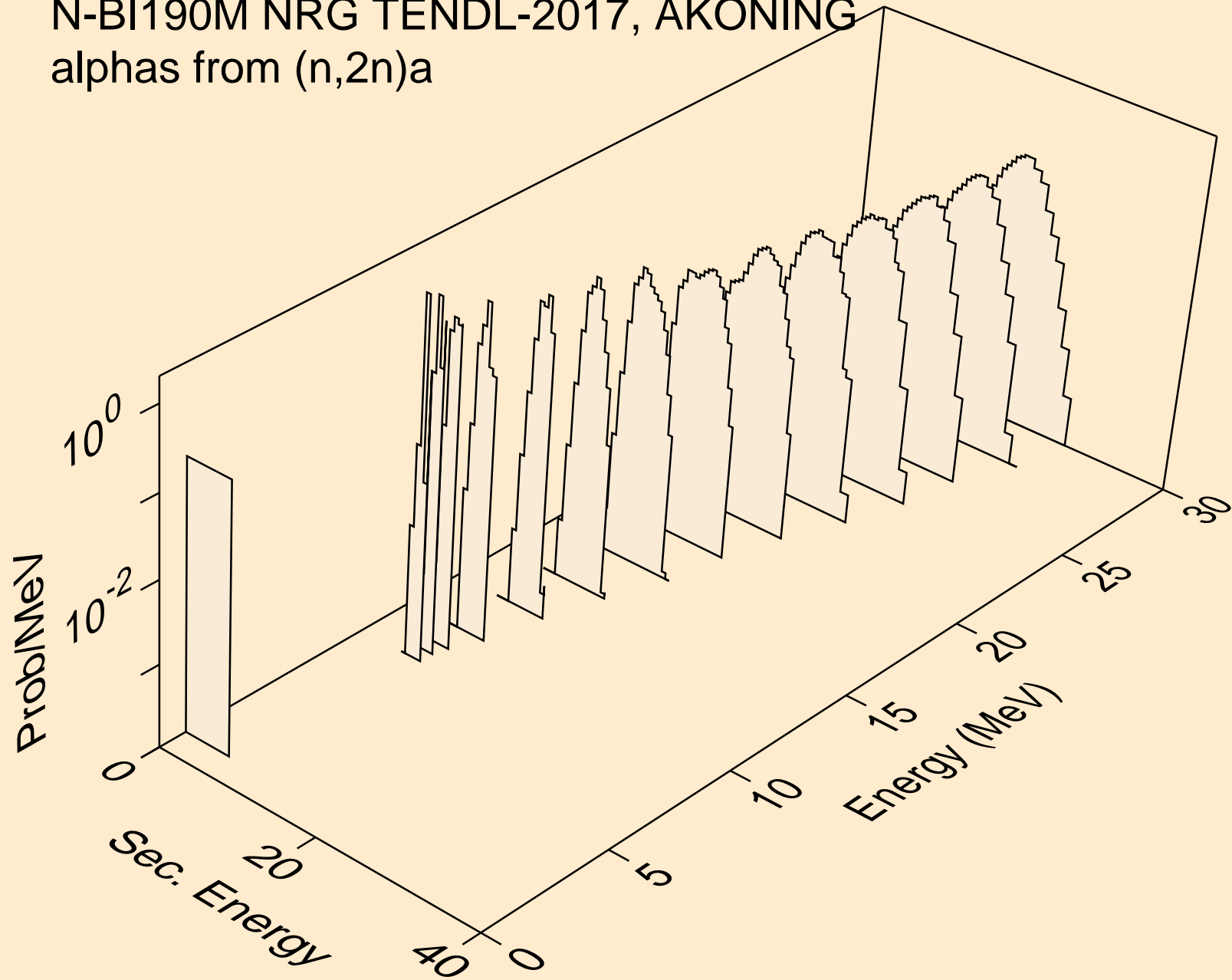
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alphas from (n,n\*)a



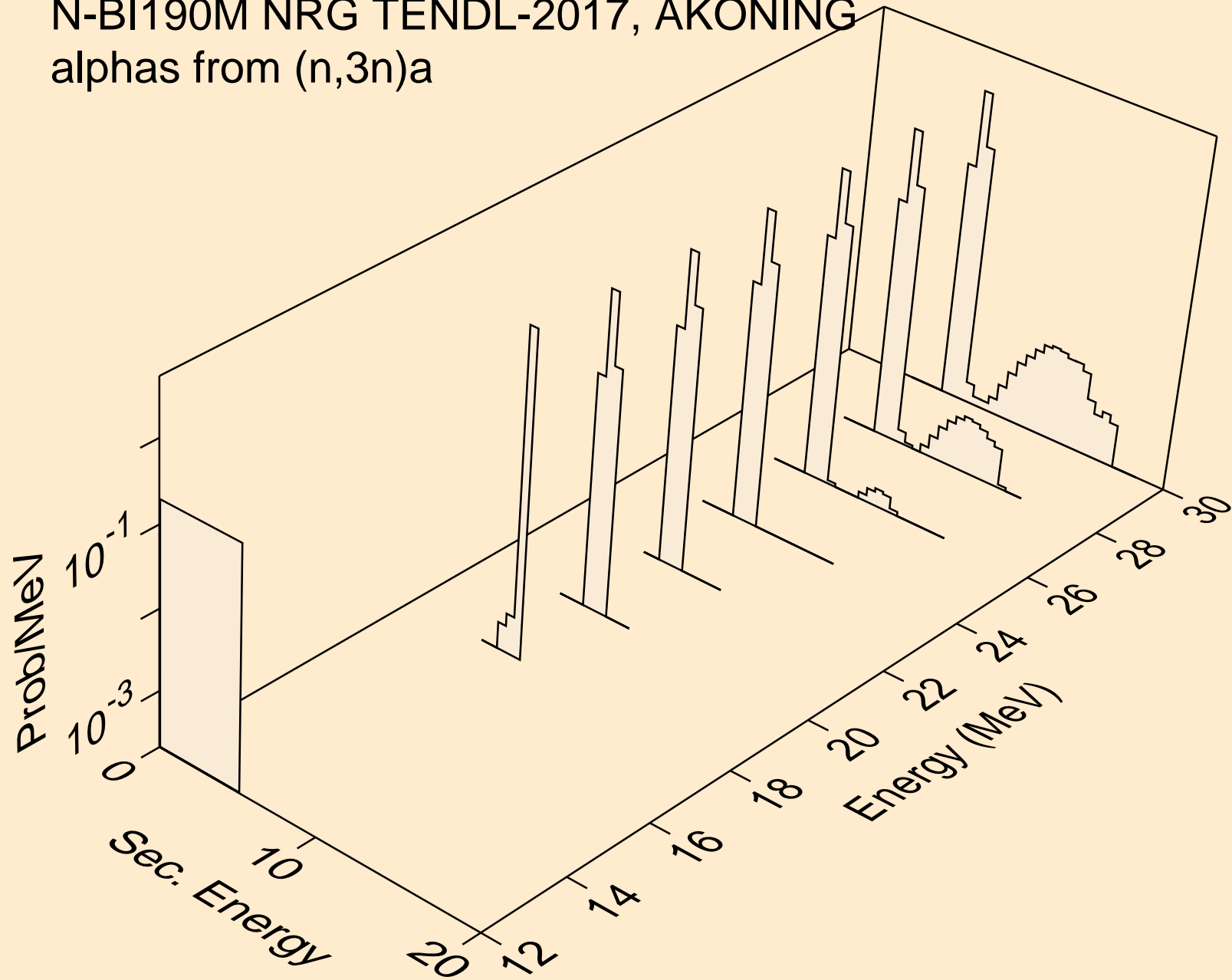
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alphas from (n,n\*)3a



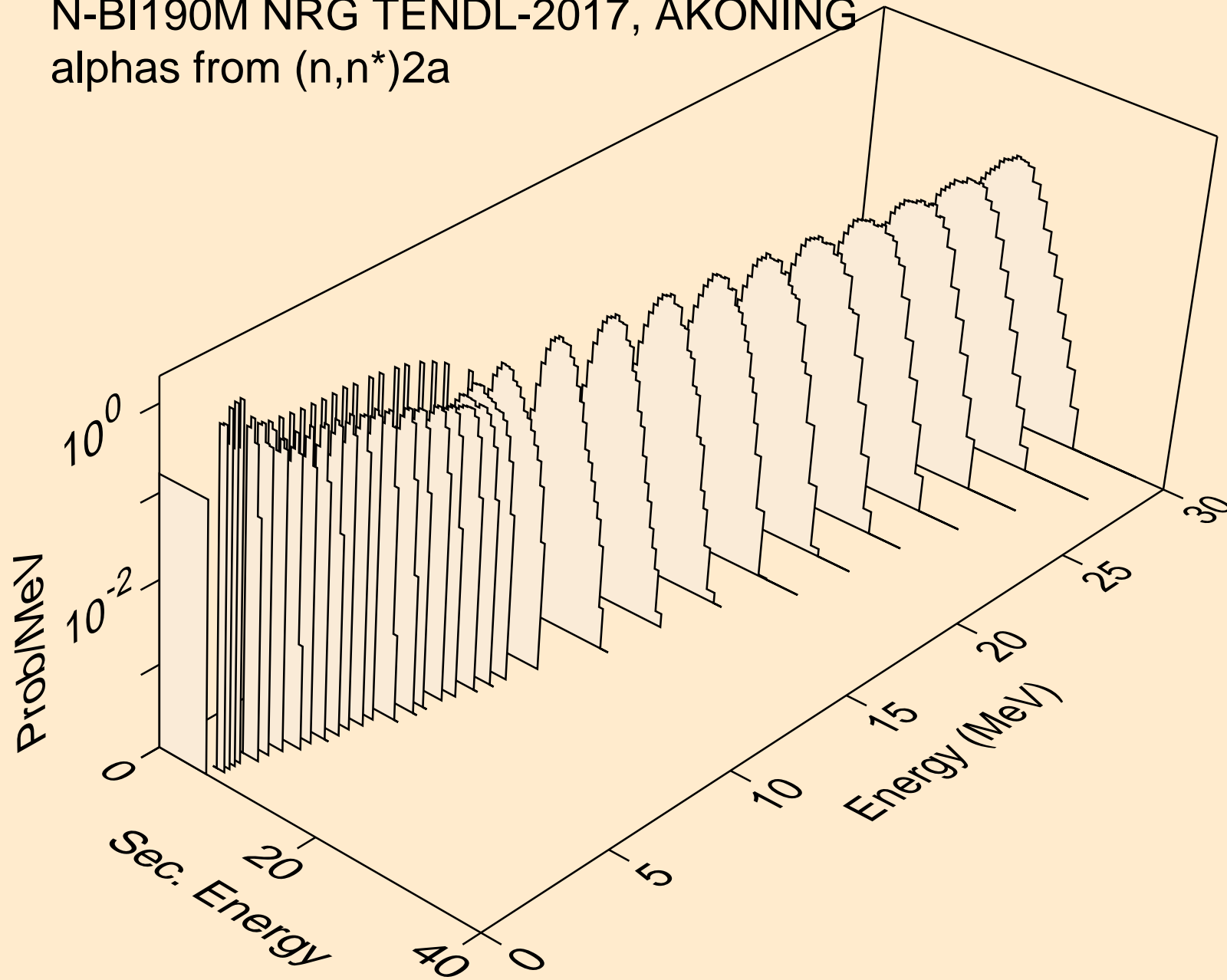
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alphas from (n,2n)a



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alphas from (n,3n)a

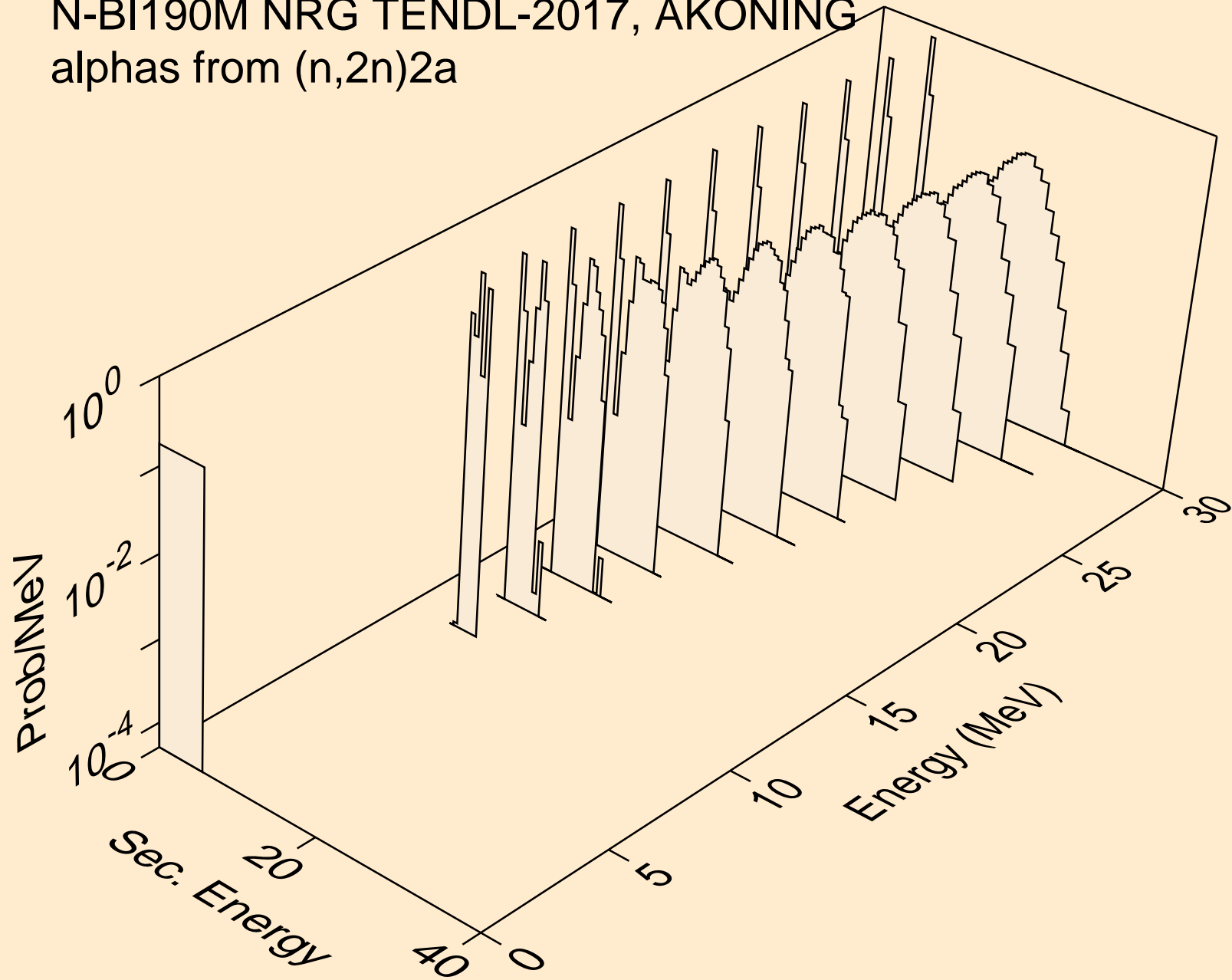


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alphas from (n,n\*)2a

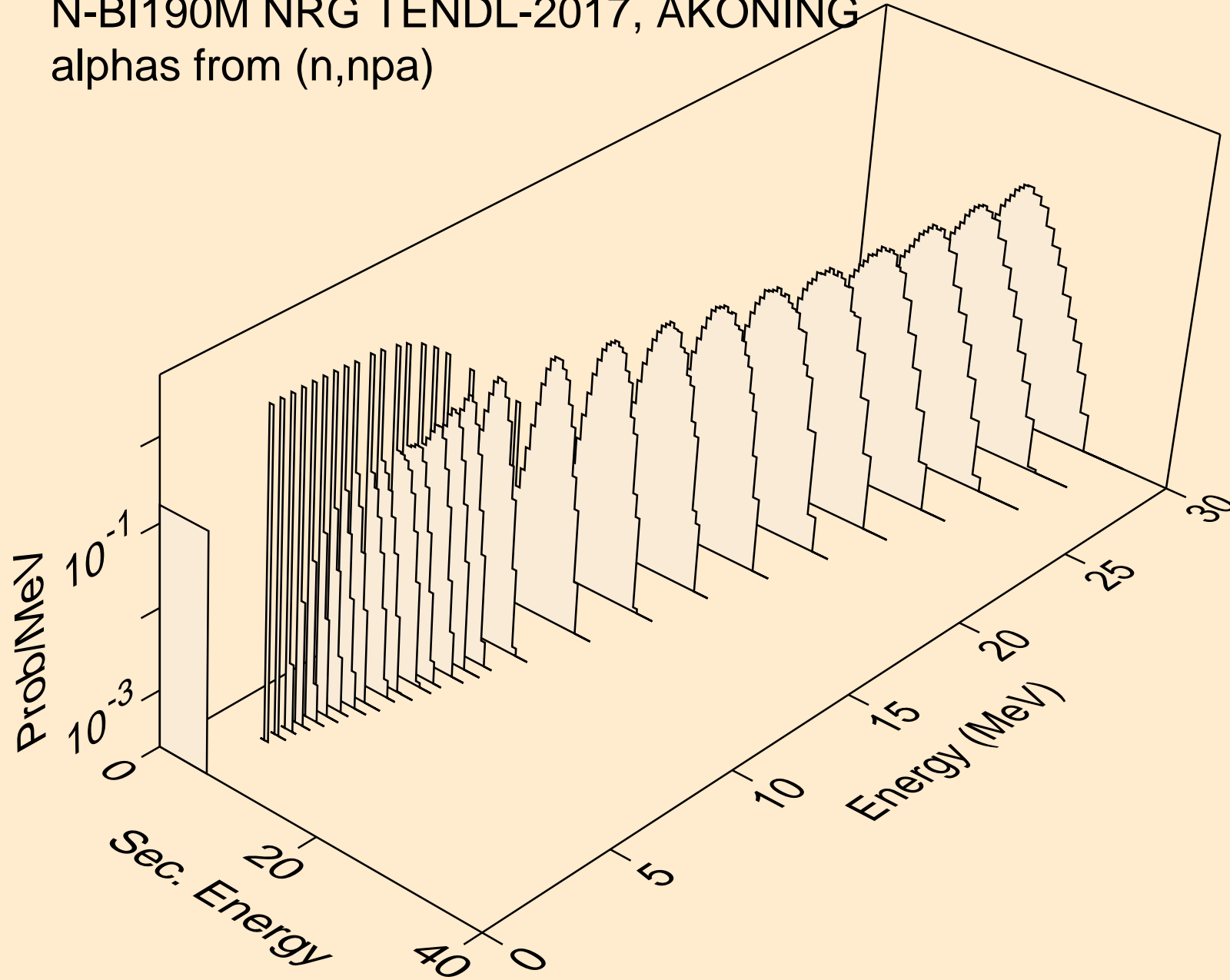




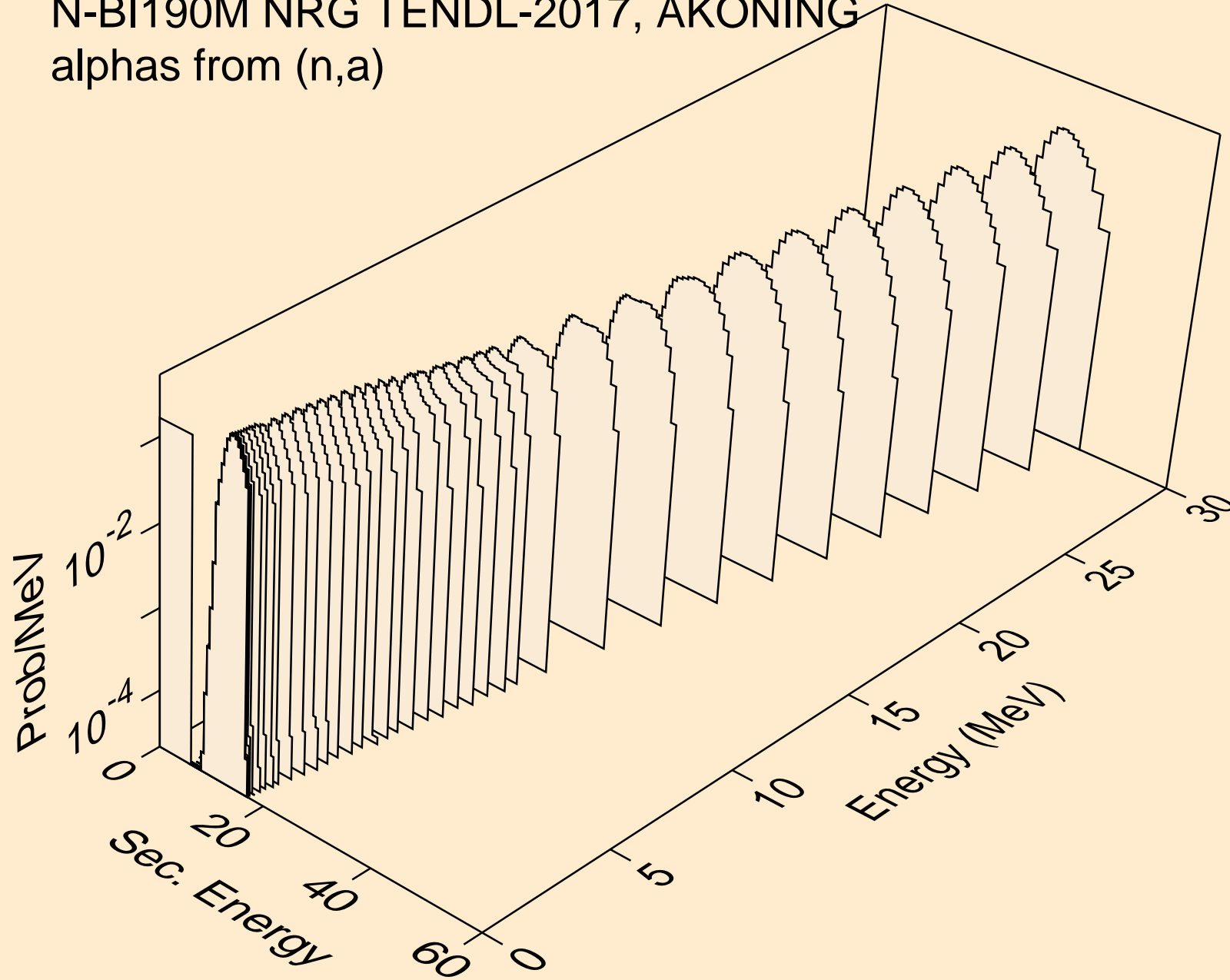
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alphas from (n,2n)2a



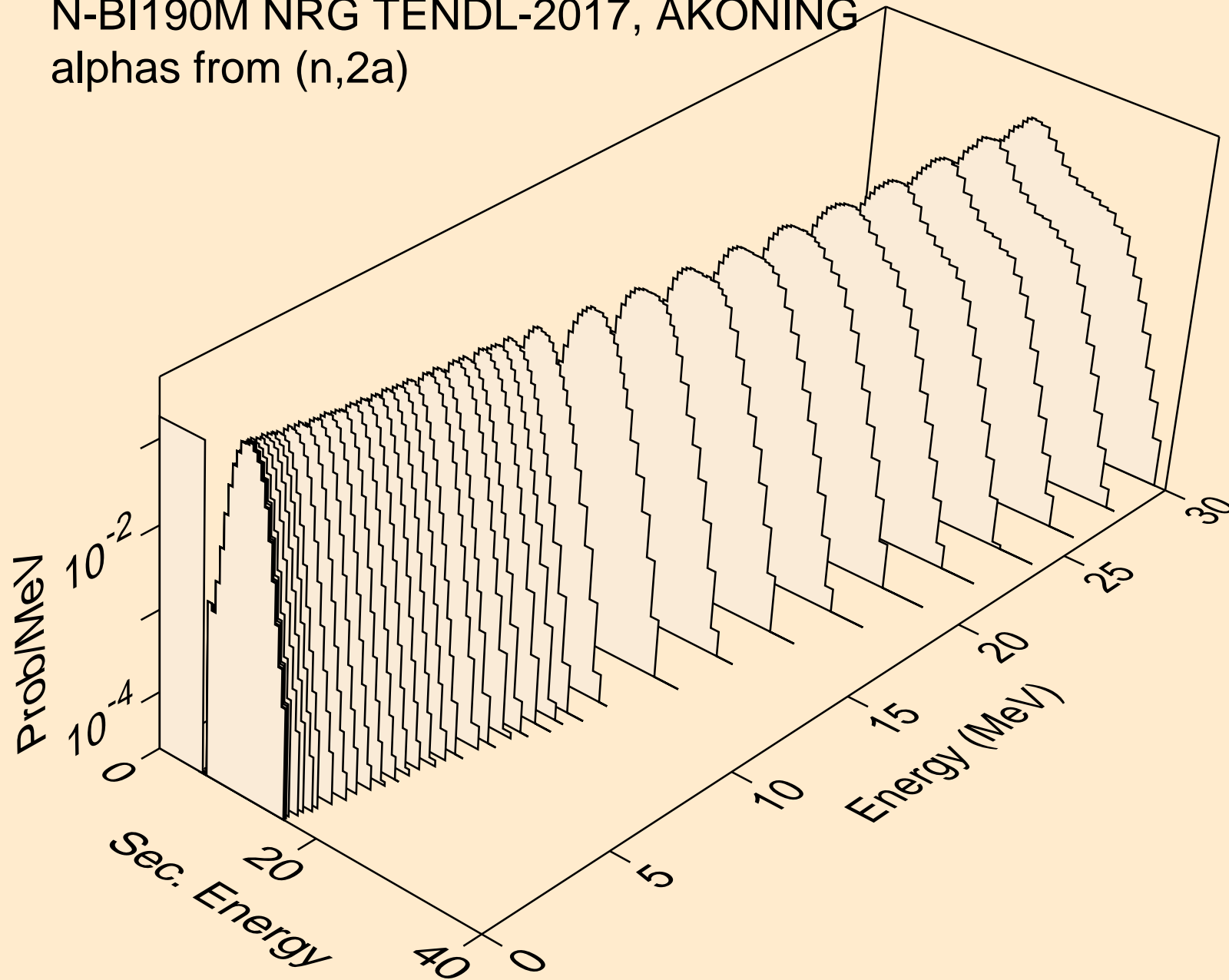
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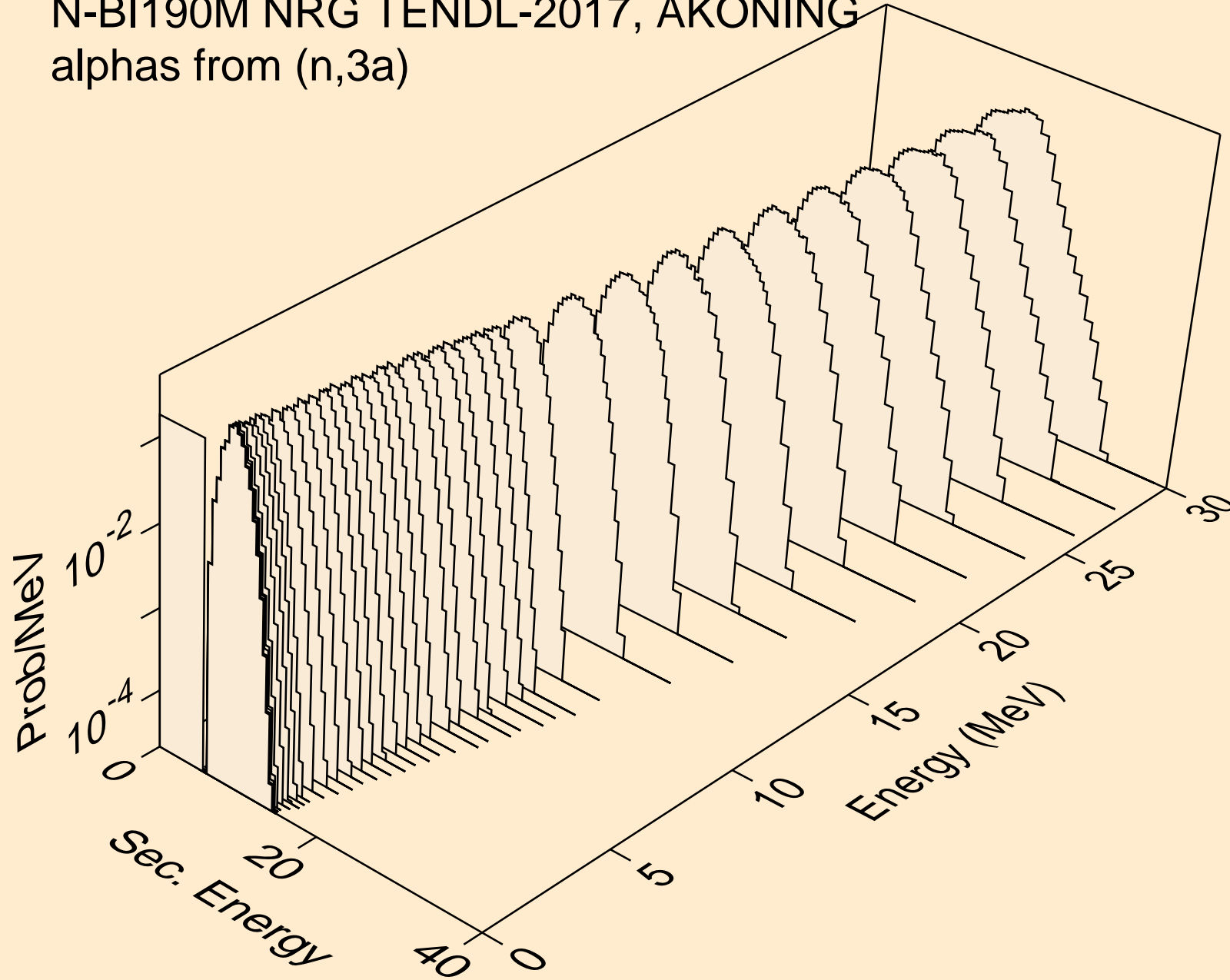
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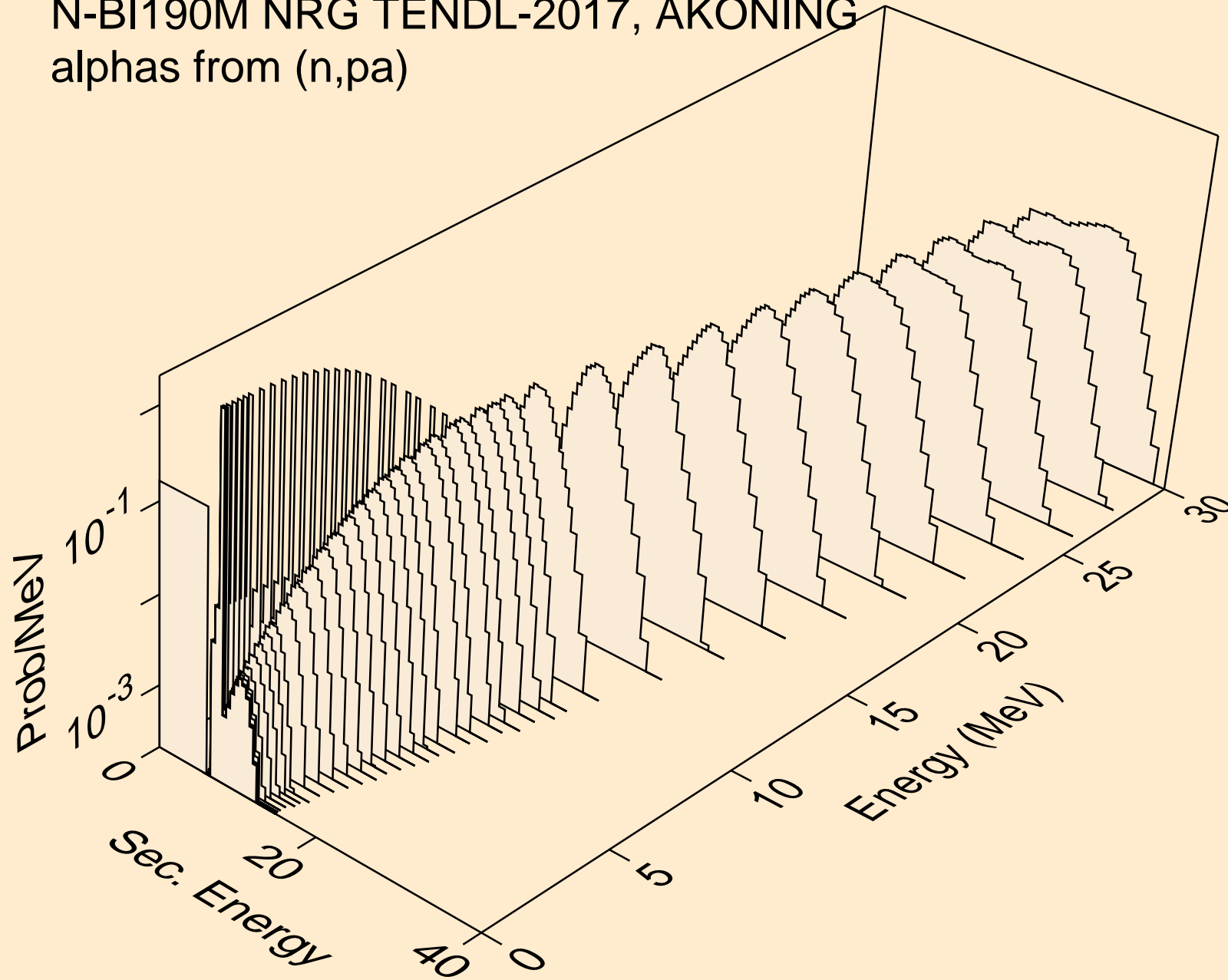
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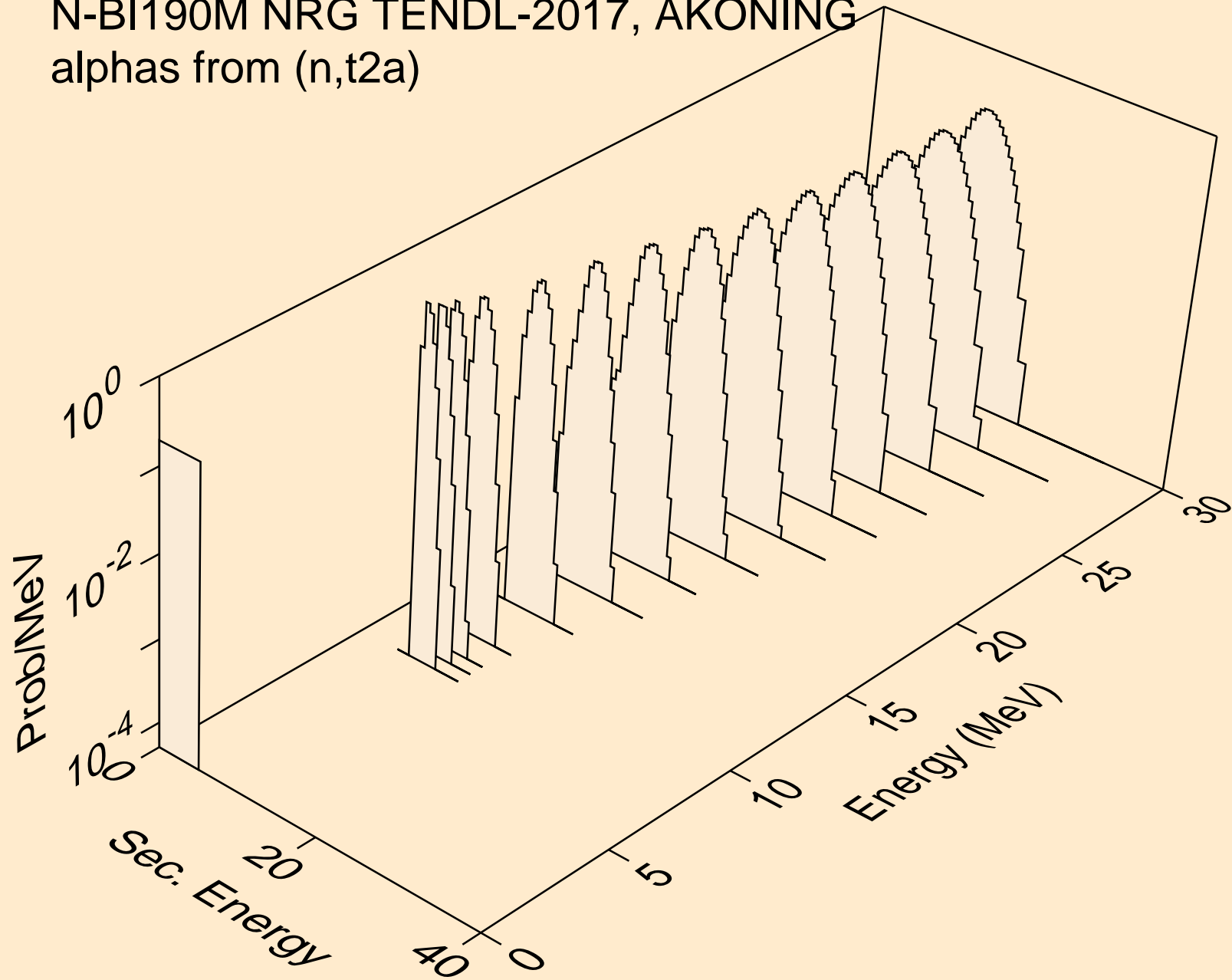
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alphas from (n,3a)



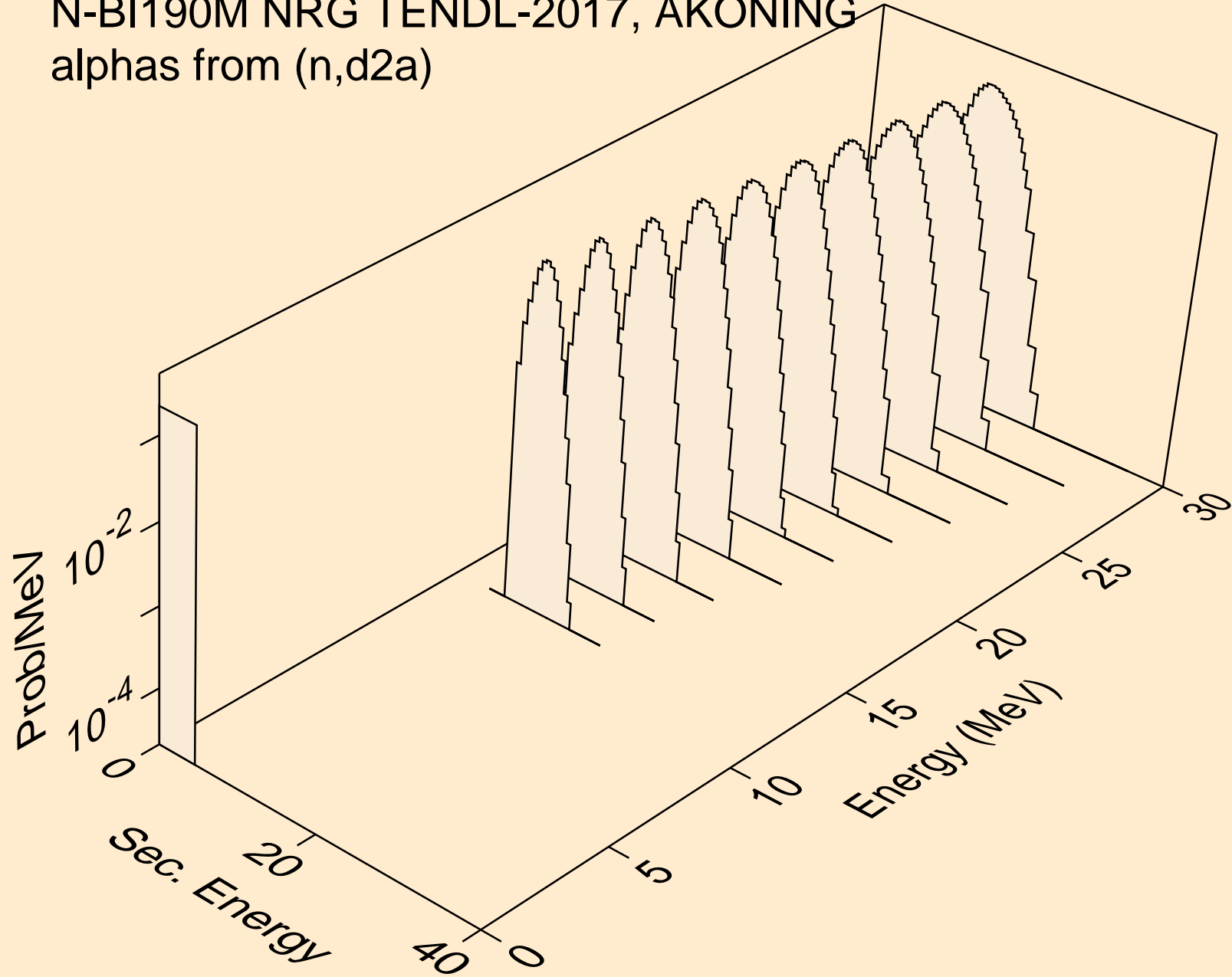
N-BI190M NRG TENDL-2017, AKONING  
alphas from (n,pa)



N-BI190M NRG TENDL-2017, AKONING  
alphas from (n,t2a)



N-BI190M NRG TENDL-2017, AKONING  
alphas from (n,d2a)





N-BI190M NRG TENDL-2017, AKONING  
alphas from (n,da)

