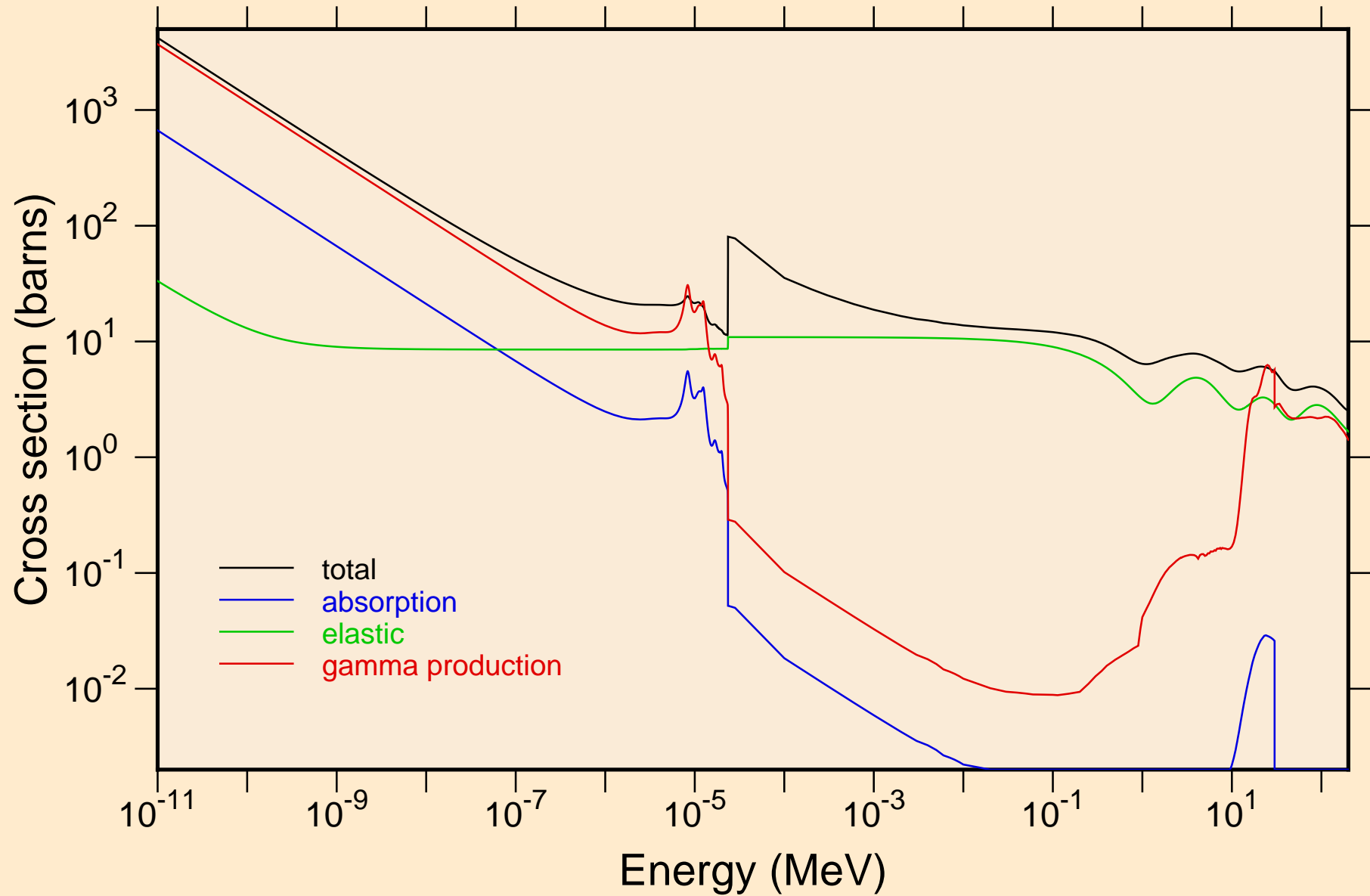


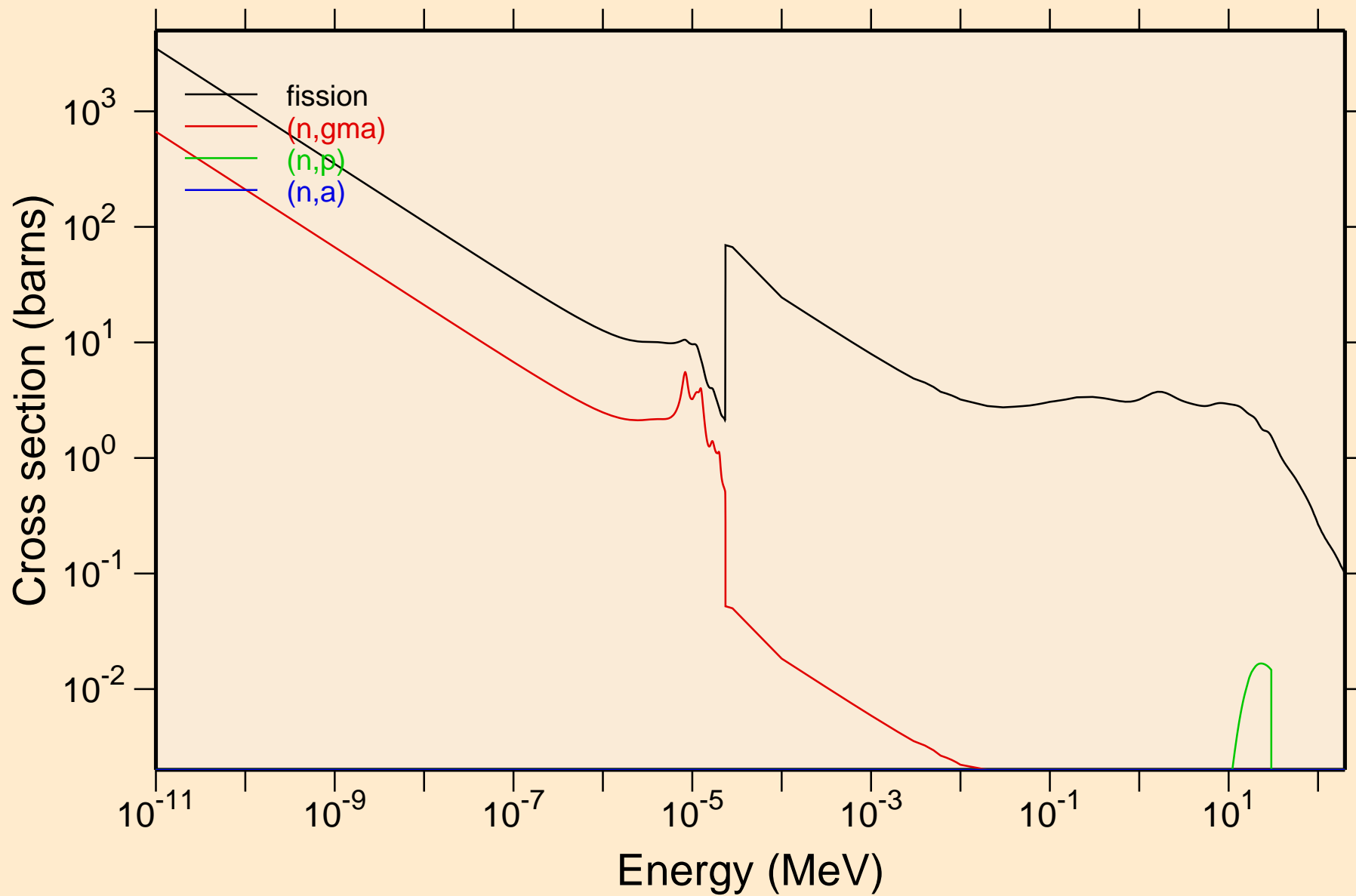
# N-NP231 NRG TENDL-2017, AKONING

## Principal cross sections



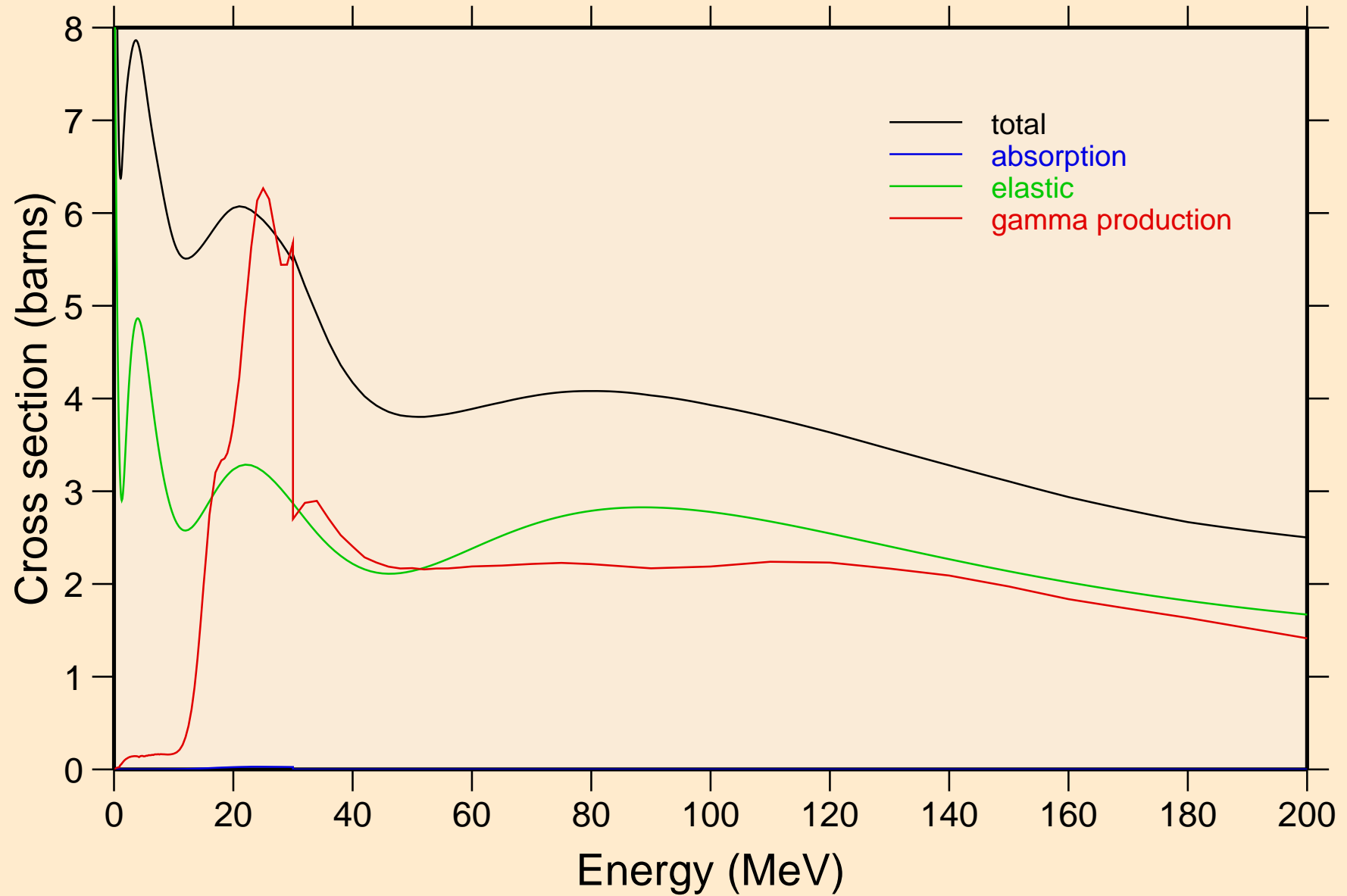
# N-NP231 NRG TENDL-2017, AKONING

## Non-threshold reactions



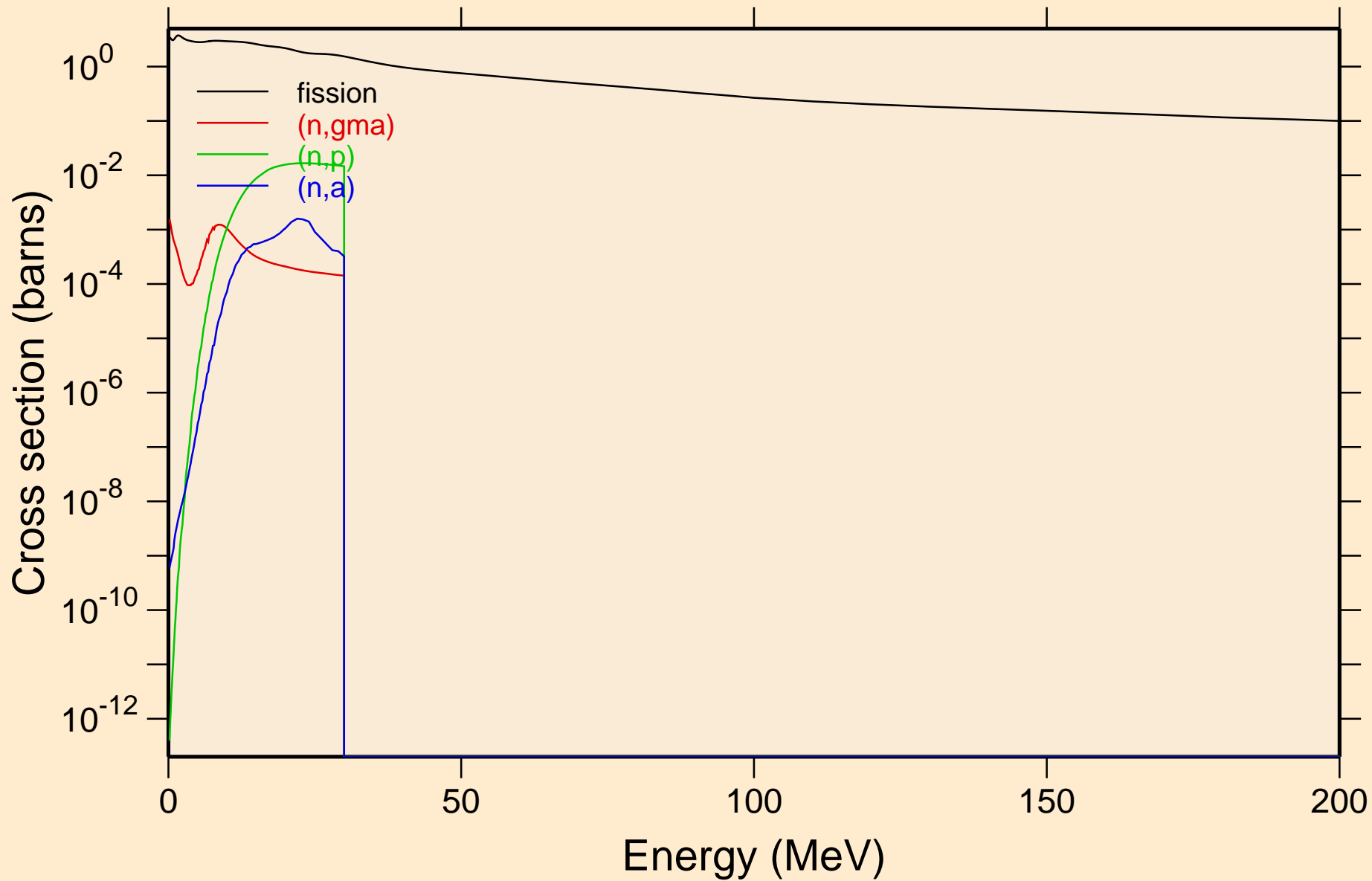
# N-NP231 NRG TENDL-2017, AKONING

## Principal cross sections

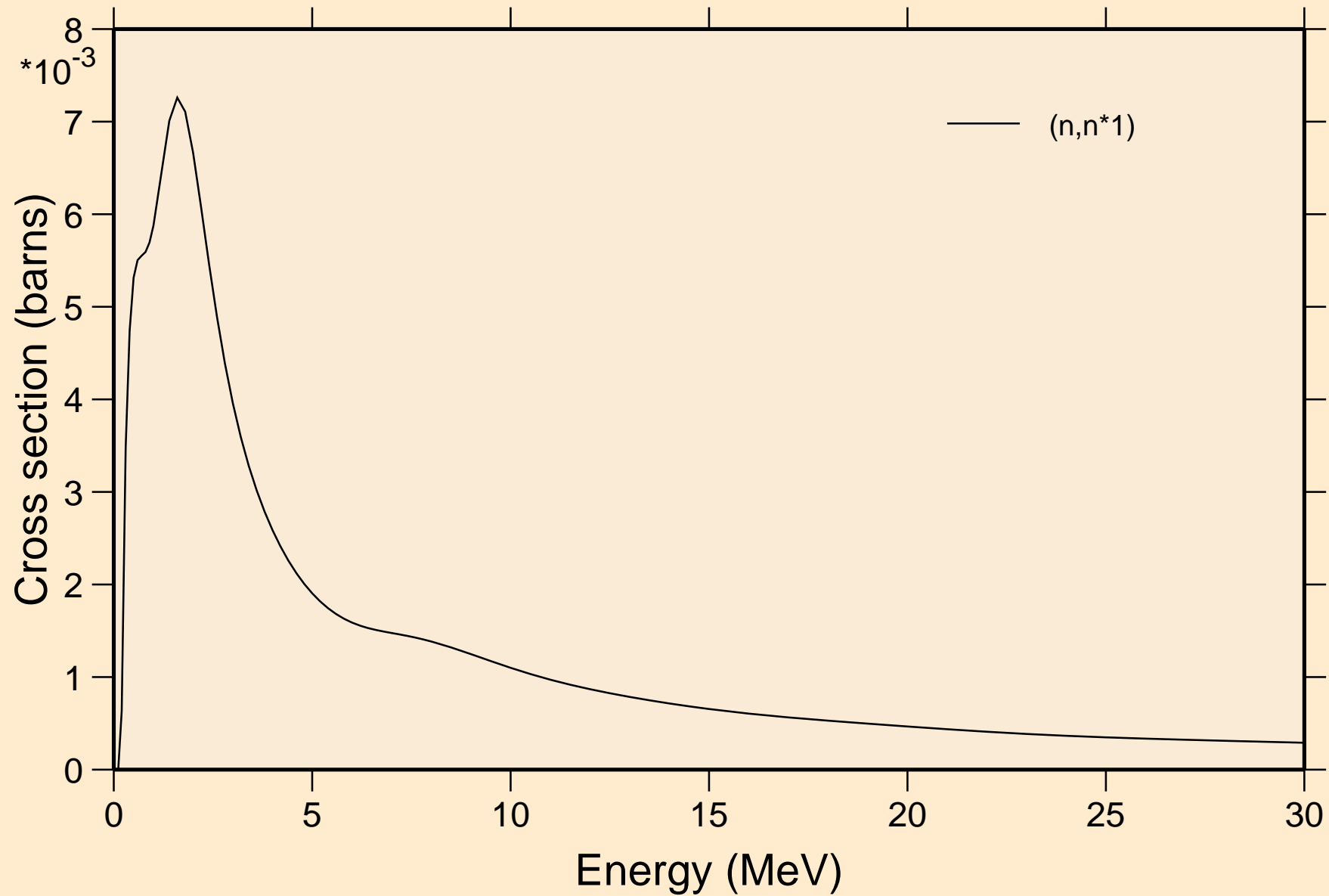


# N-NP231 NRG TENDL-2017, AKONING

## Non-threshold reactions

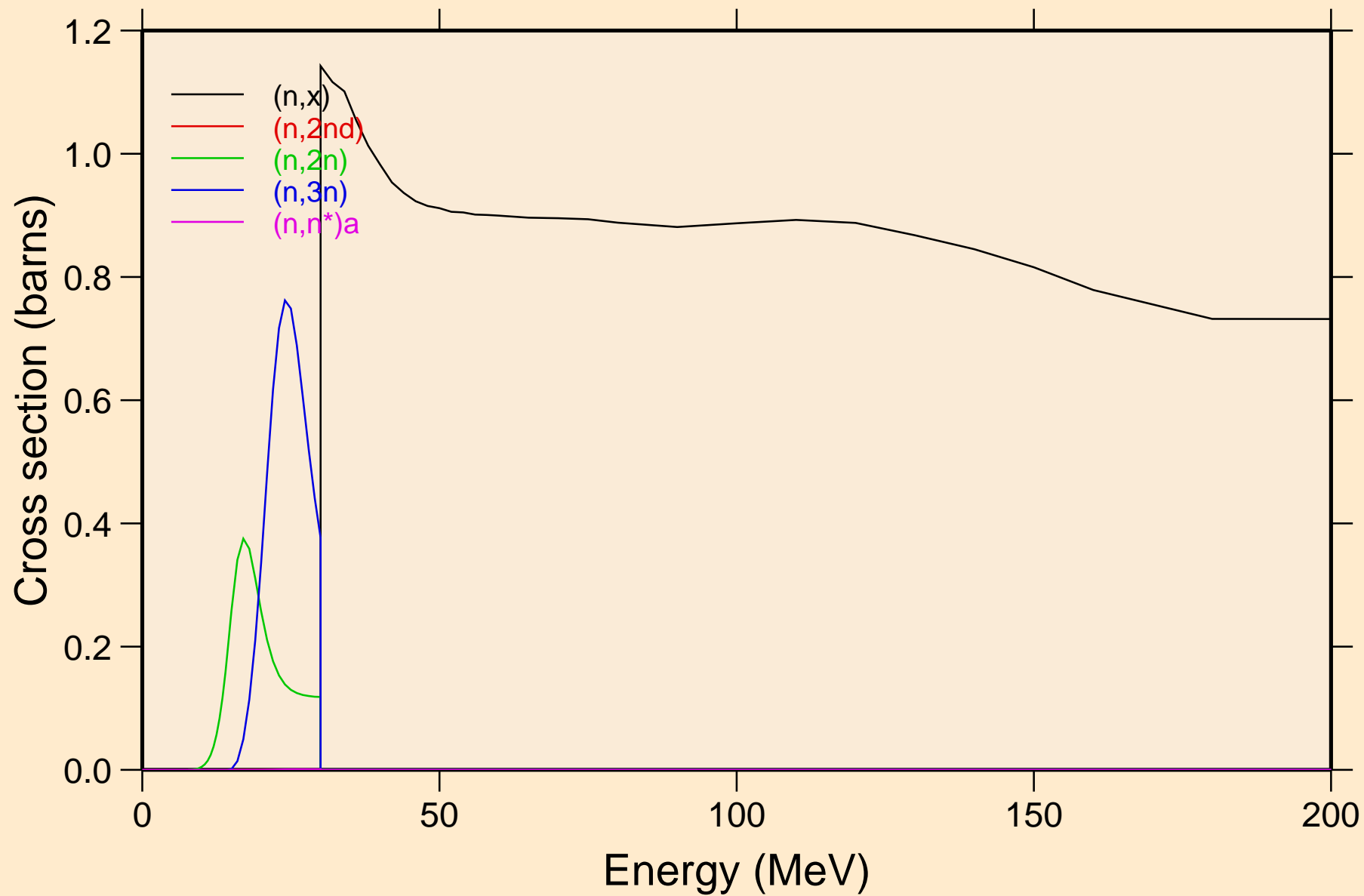


N-NP231 NRG TENDL-2017, AKONING  
Inelastic levels



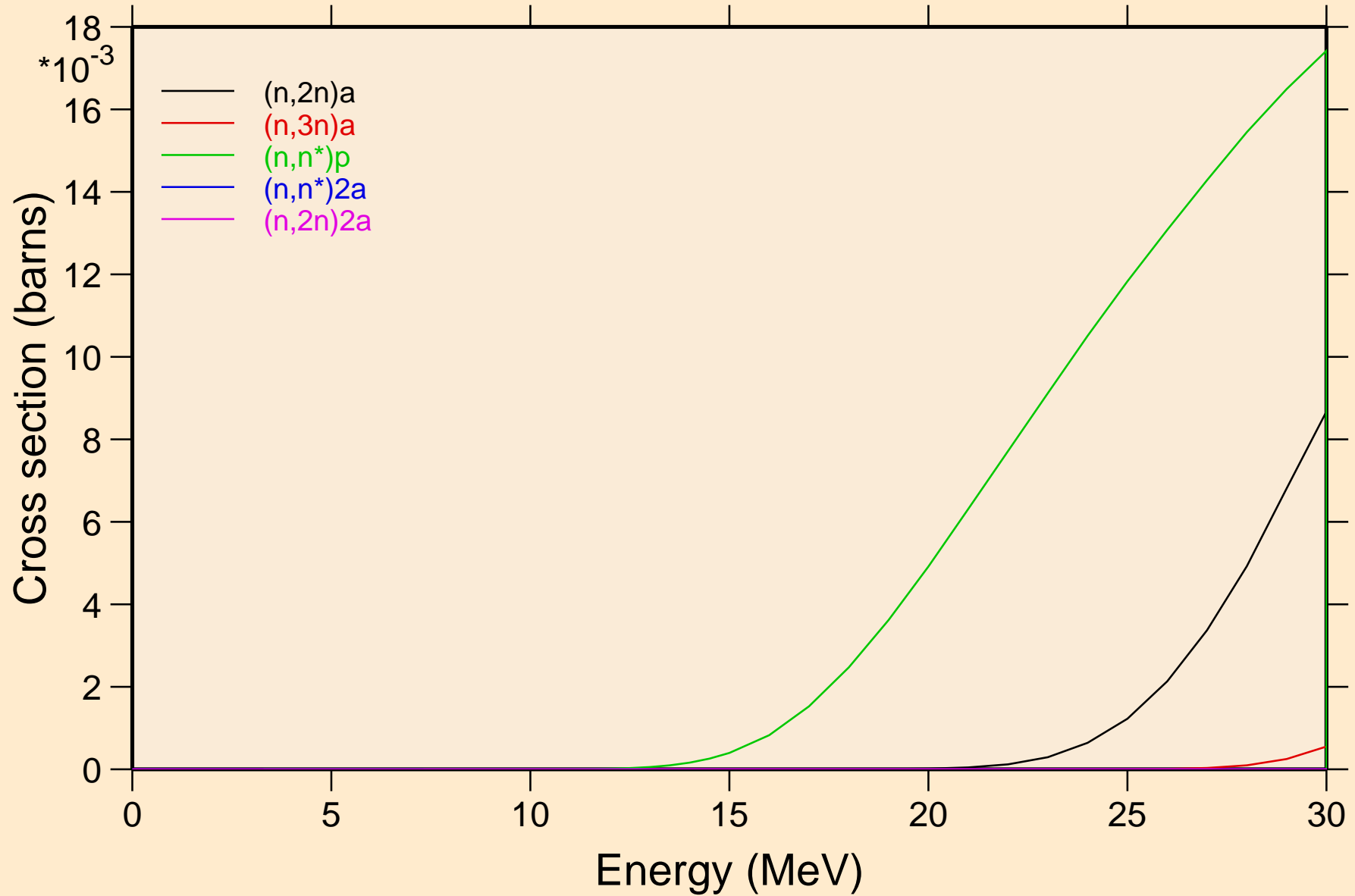
# N-NP231 NRG TENDL-2017, AKONING

## Threshold reactions



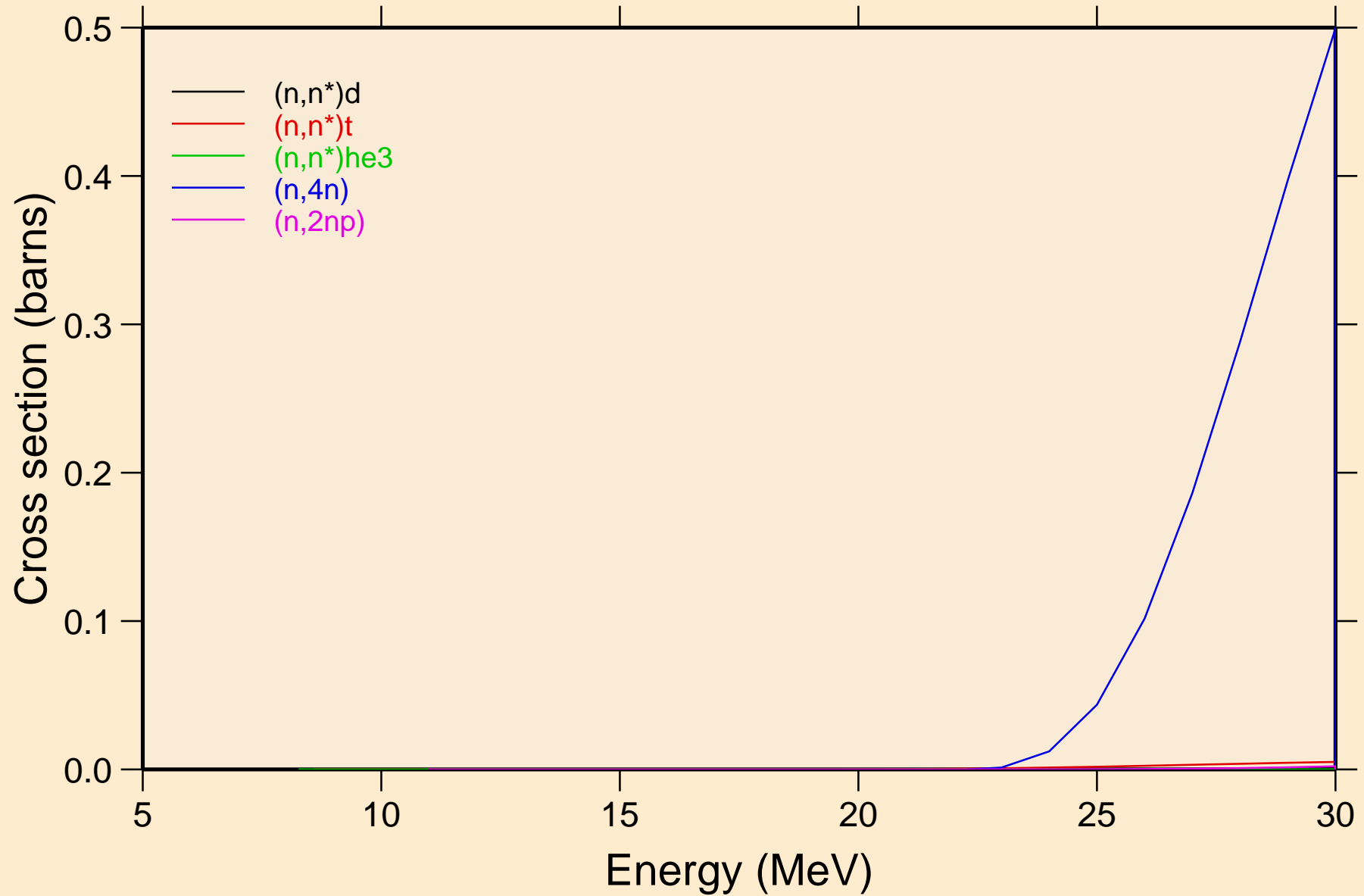
# N-NP231 NRG TENDL-2017, AKONING

## Threshold reactions



# N-NP231 NRG TENDL-2017, AKONING

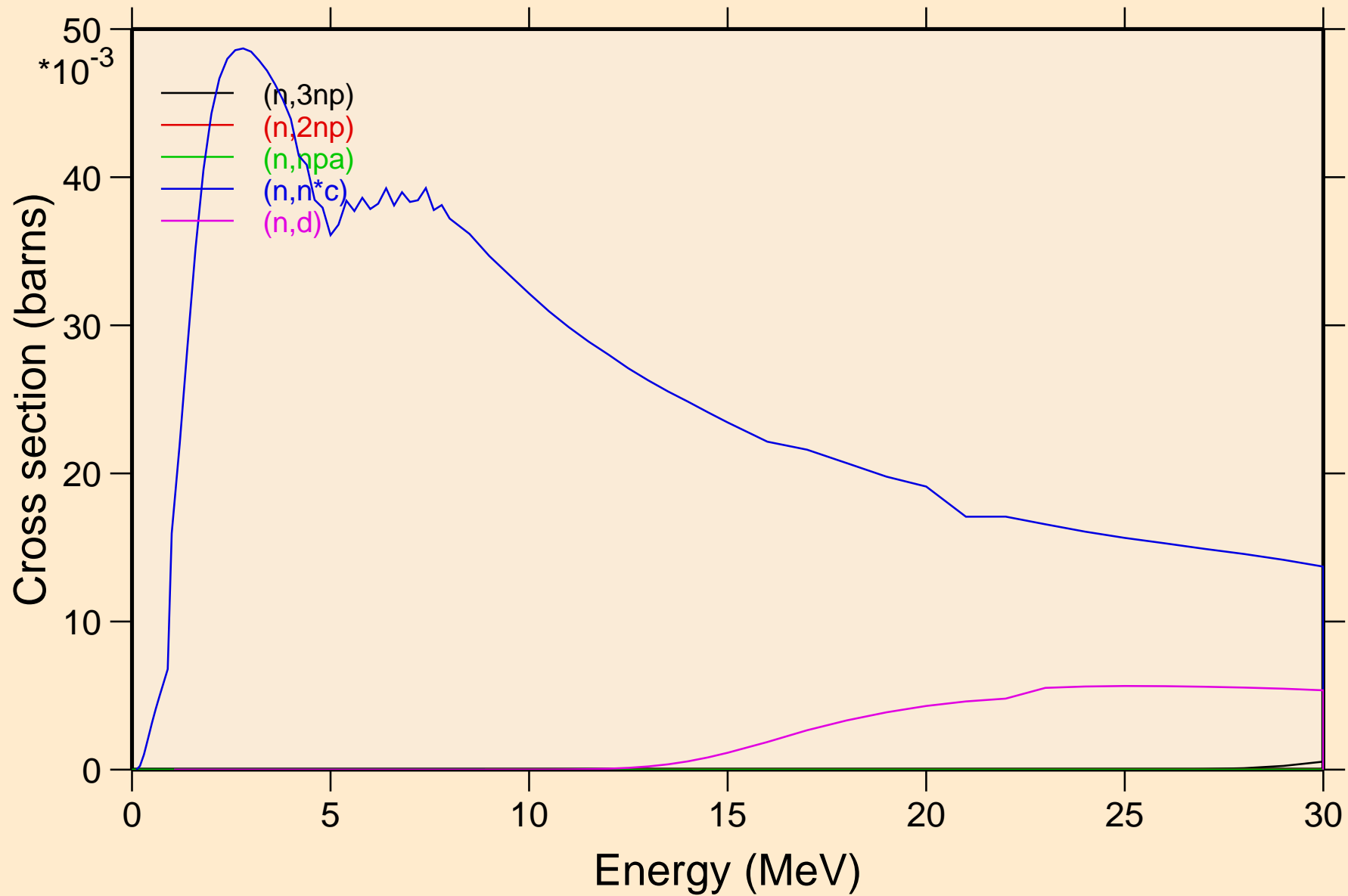
## Threshold reactions





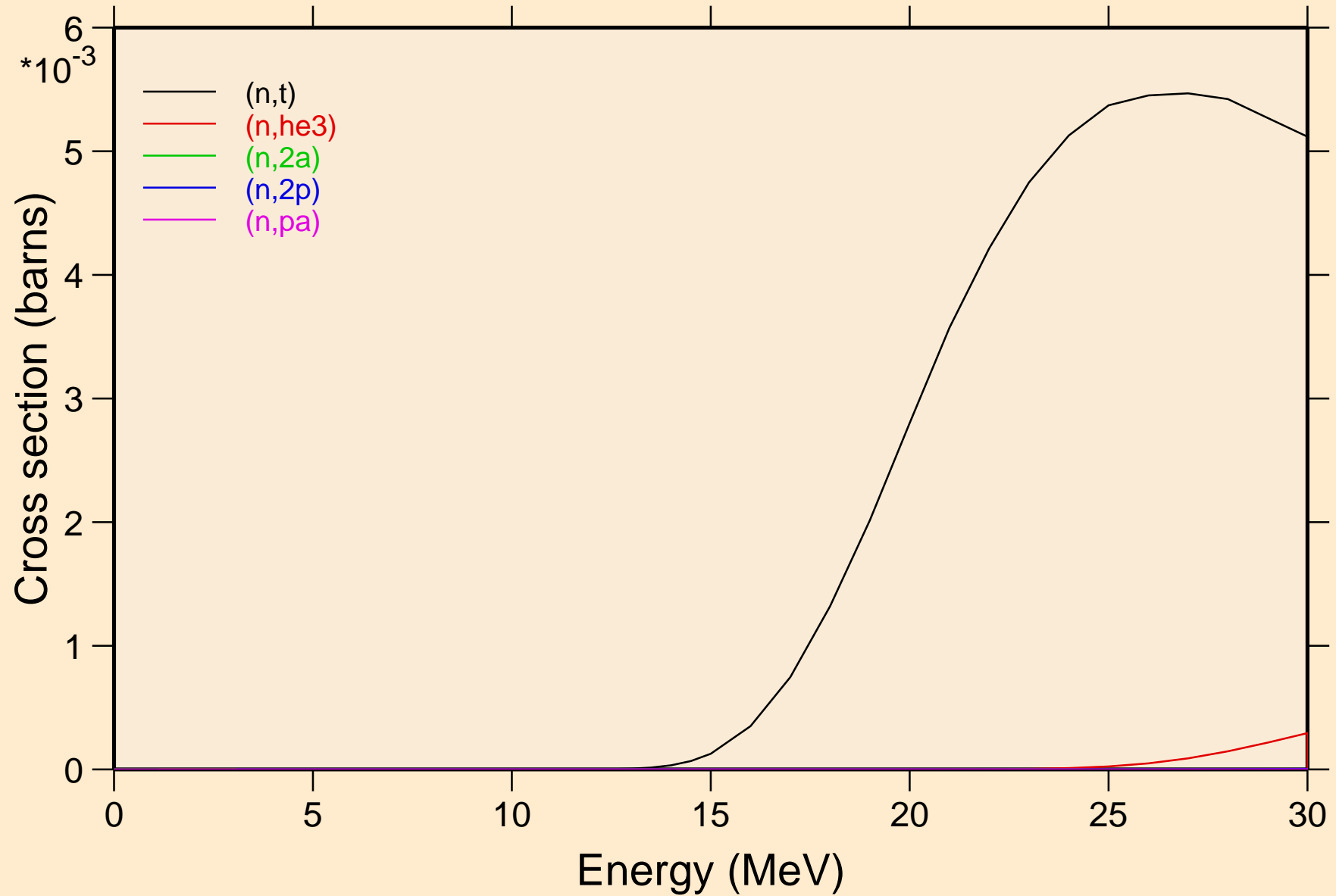
# N-NP231 NRG TENDL-2017, AKONING

## Threshold reactions



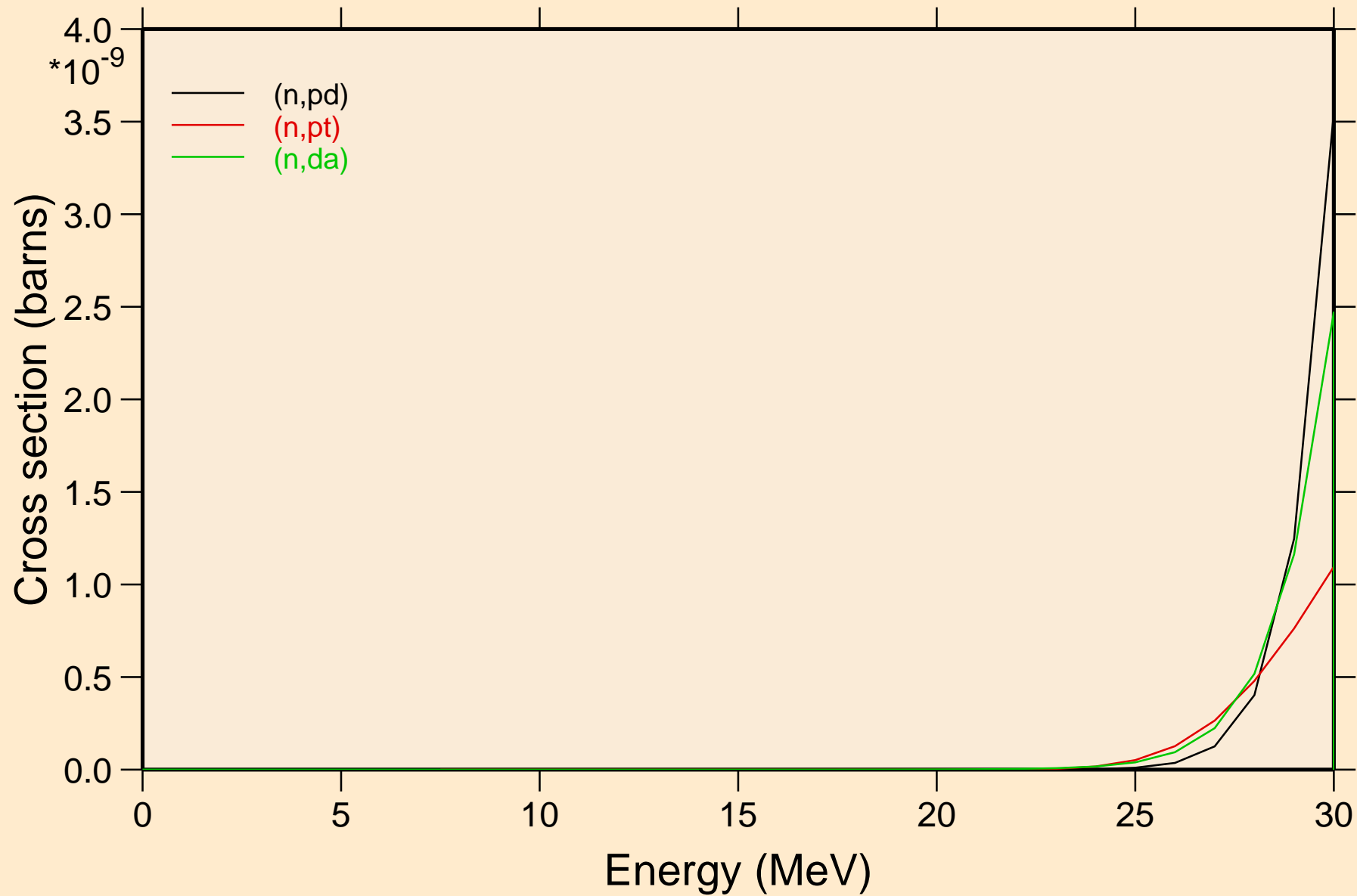
# N-NP231 NRG TENDL-2017, AKONING

## Threshold reactions

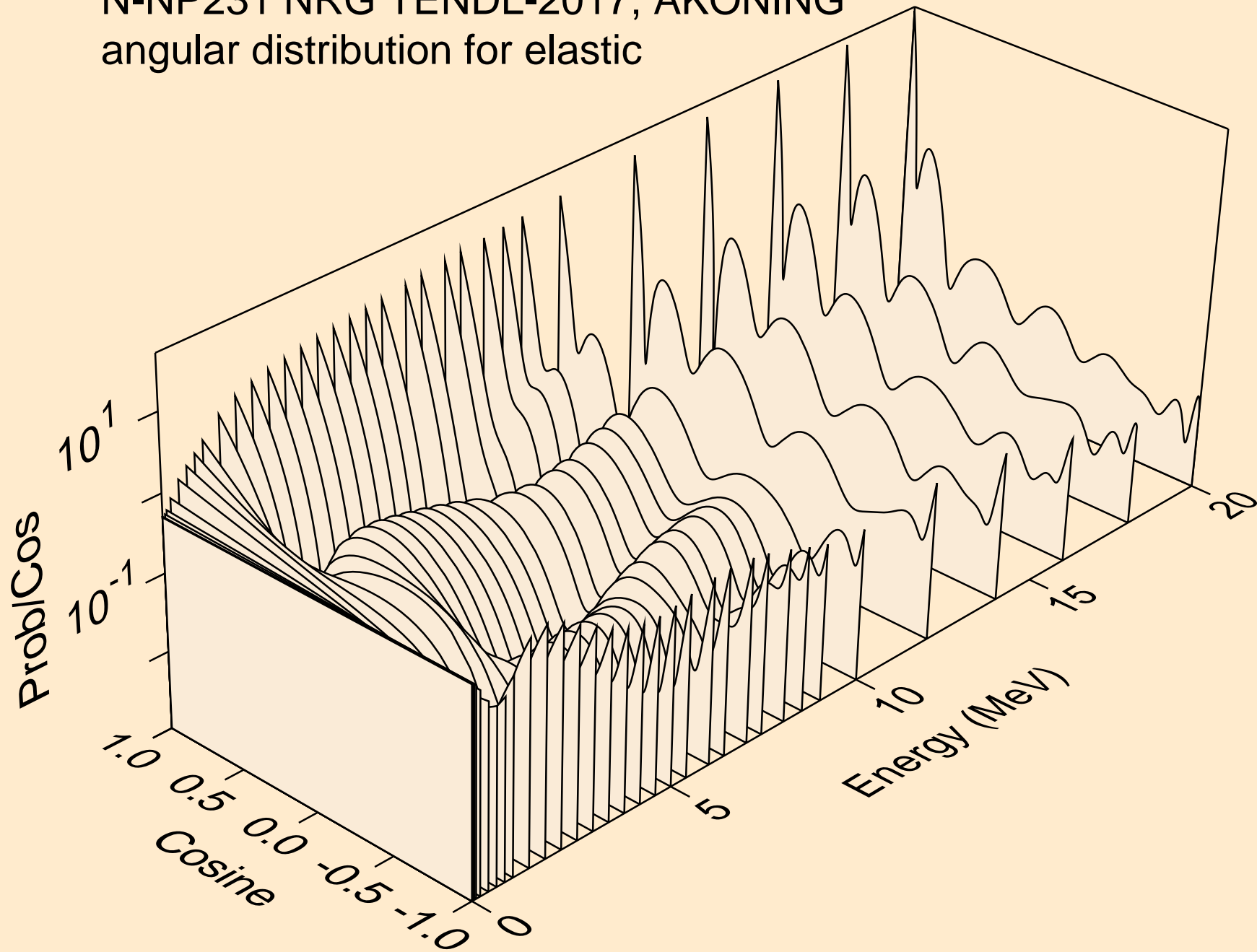


# N-NP231 NRG TENDL-2017, AKONING

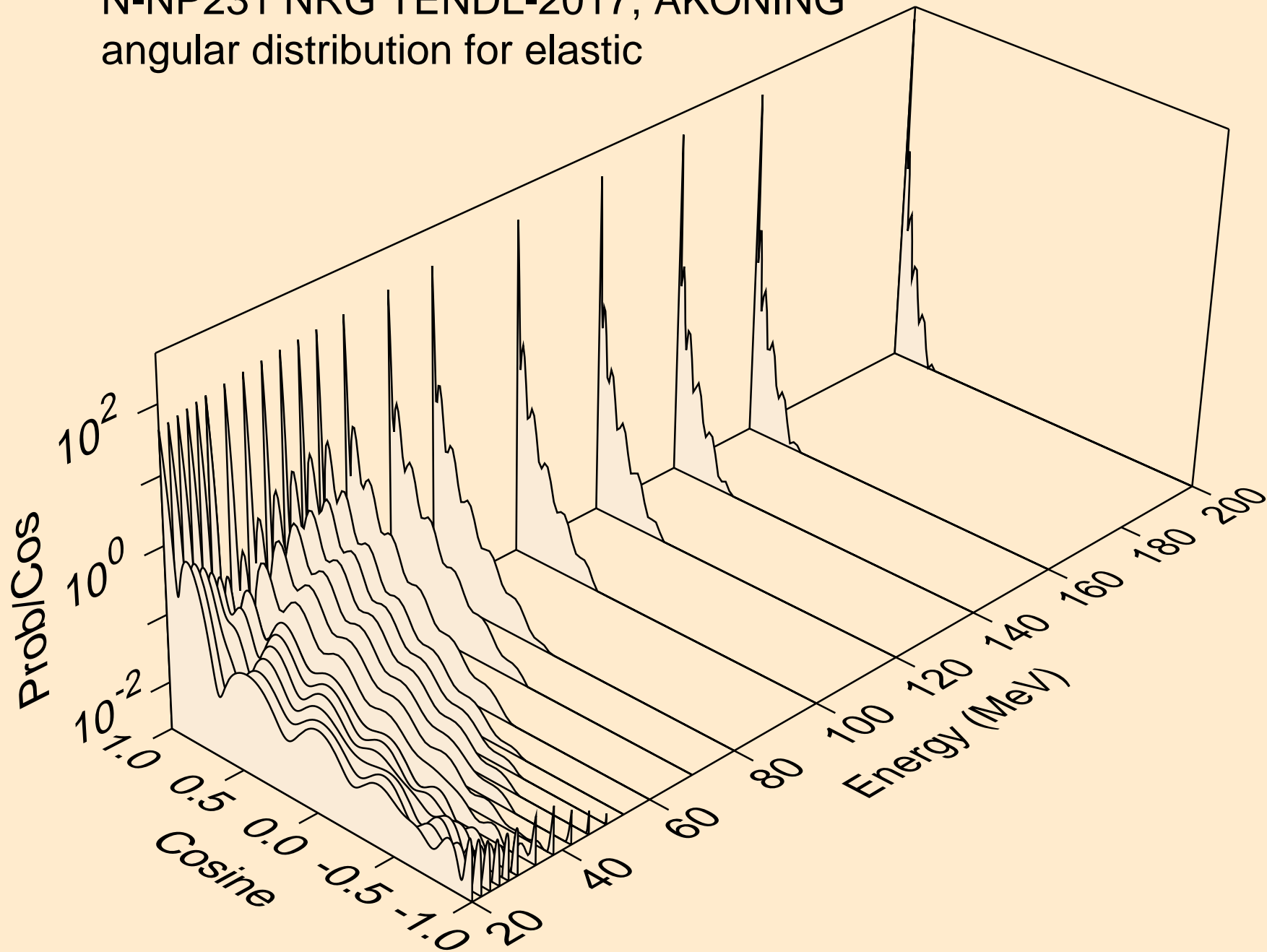
## Threshold reactions



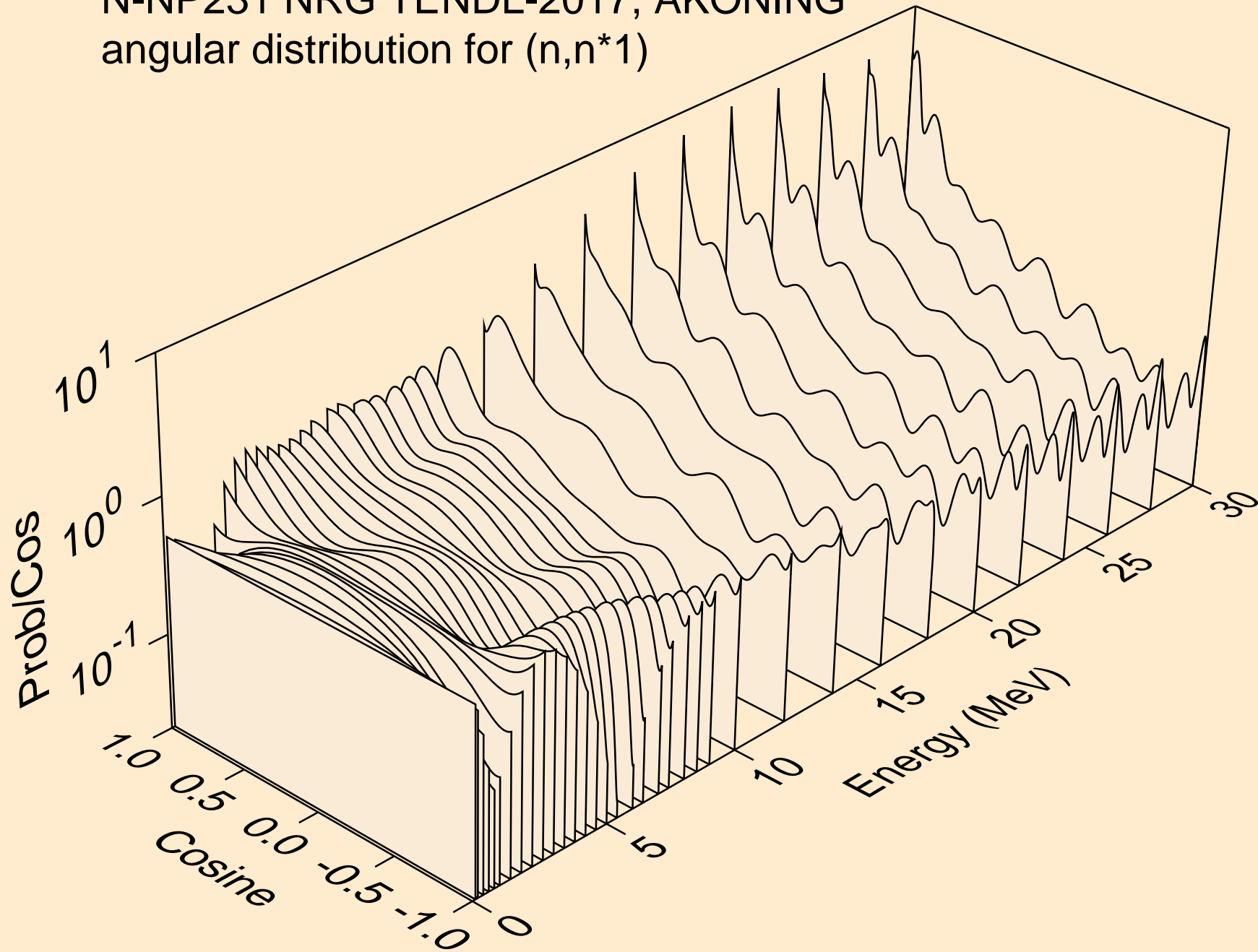
N-NP231 NRG TENDL-2017, AKONING  
angular distribution for elastic



N-NP231 NRG TENDL-2017, AKONING  
angular distribution for elastic

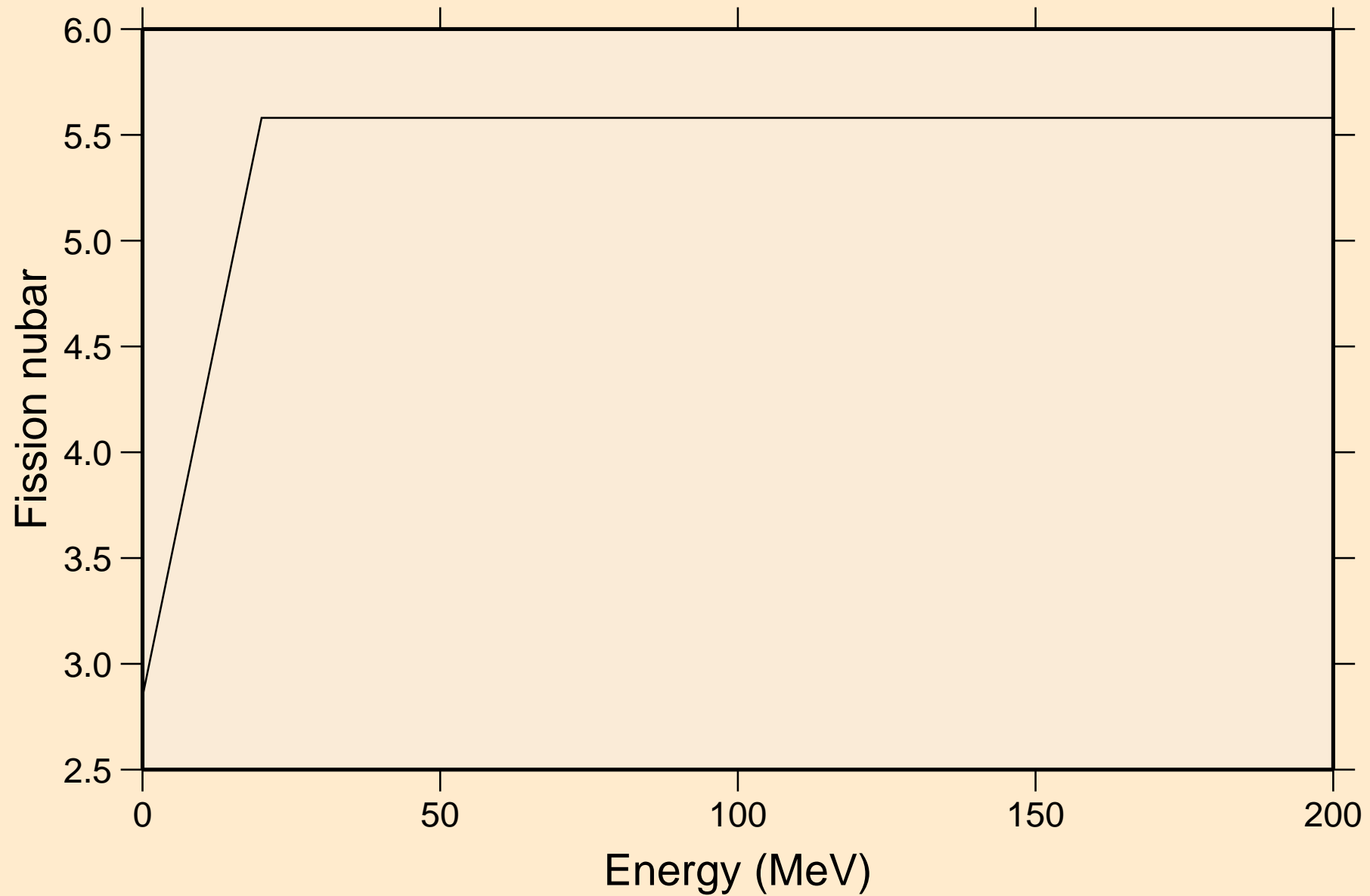


N-NP231 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*1)

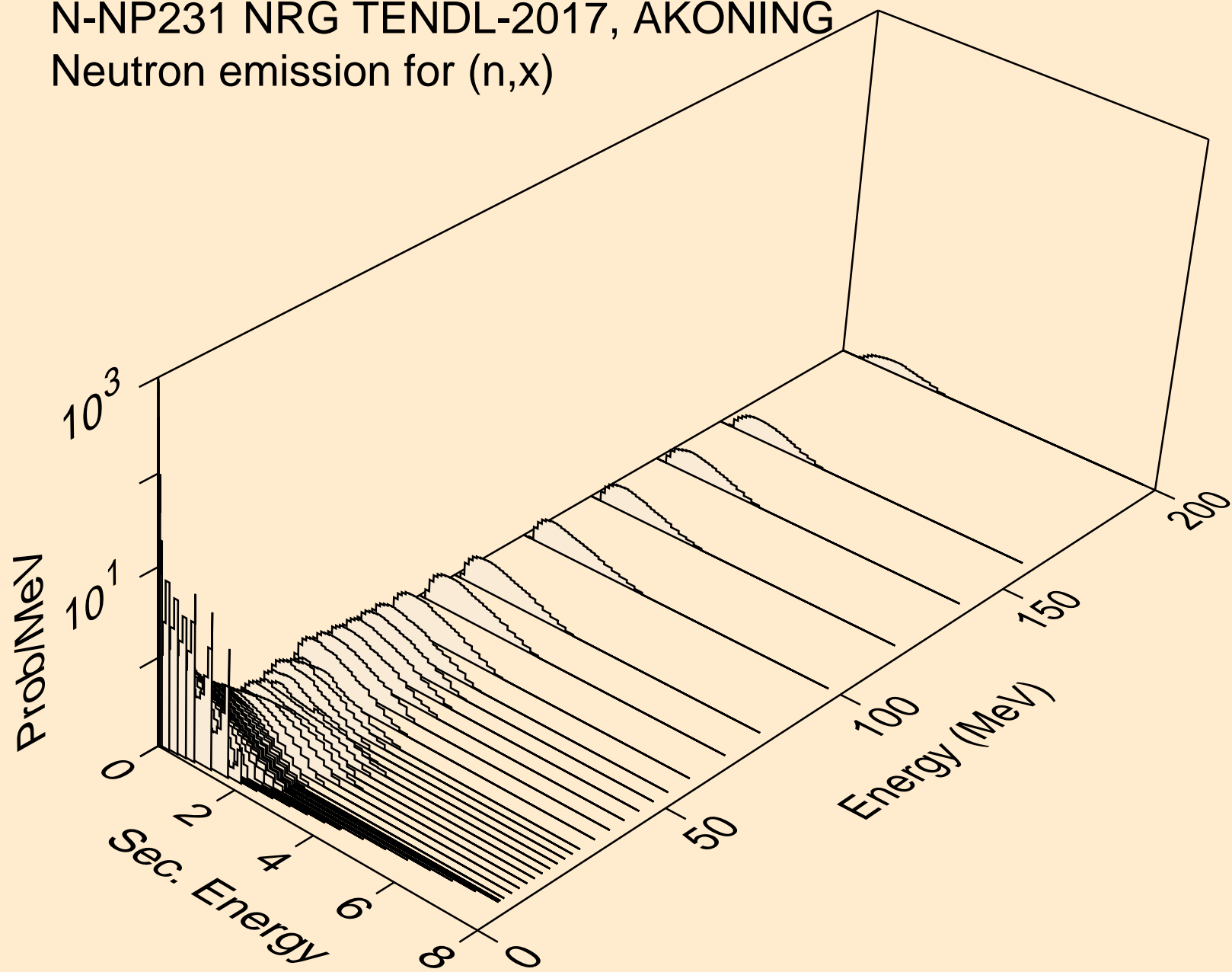


# N-NP231 NRG TENDL-2017, AKONING

Total fission nubar

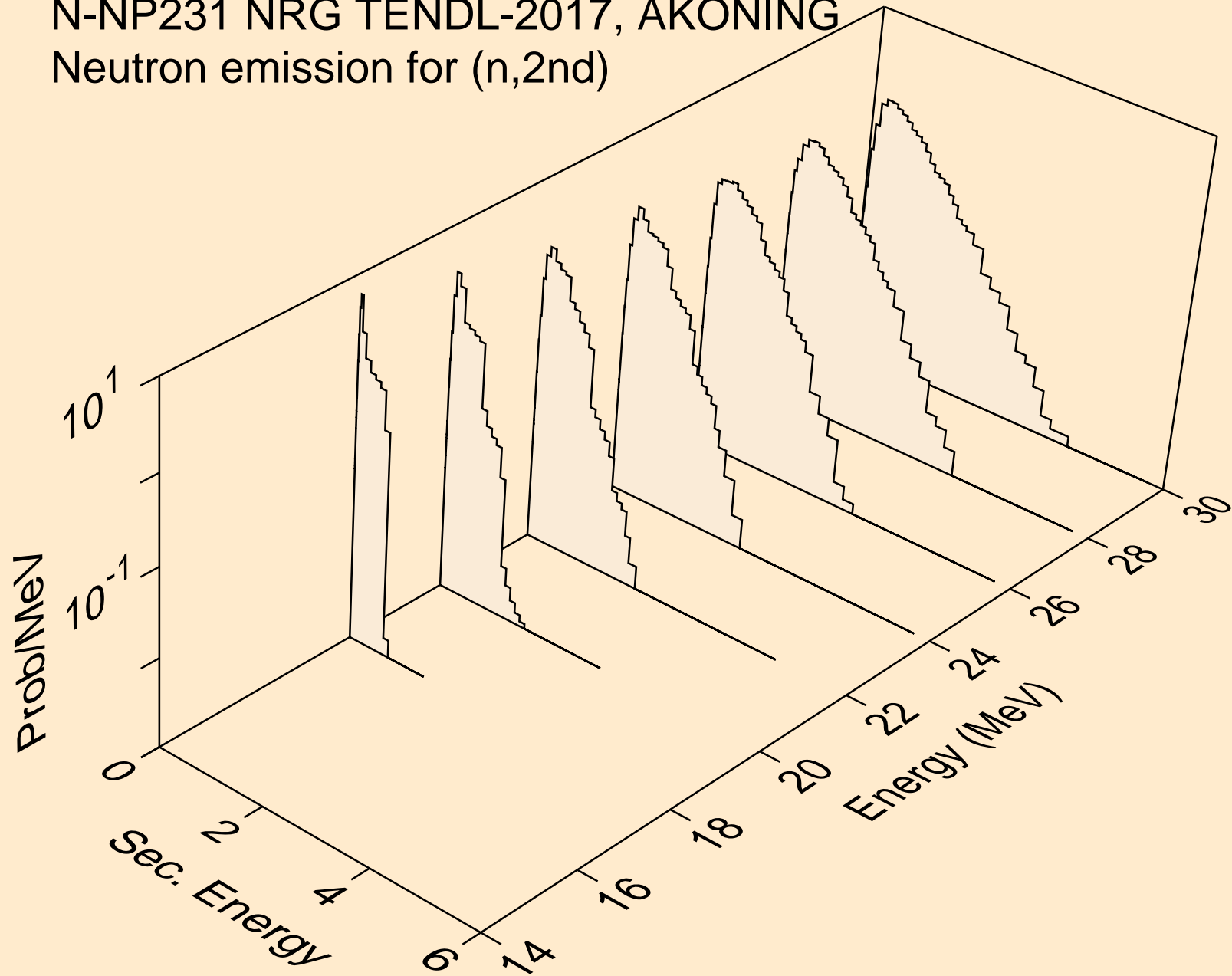


N-NP231 NRG TENDL-2017, AKONING  
Neutron emission for (n,x)

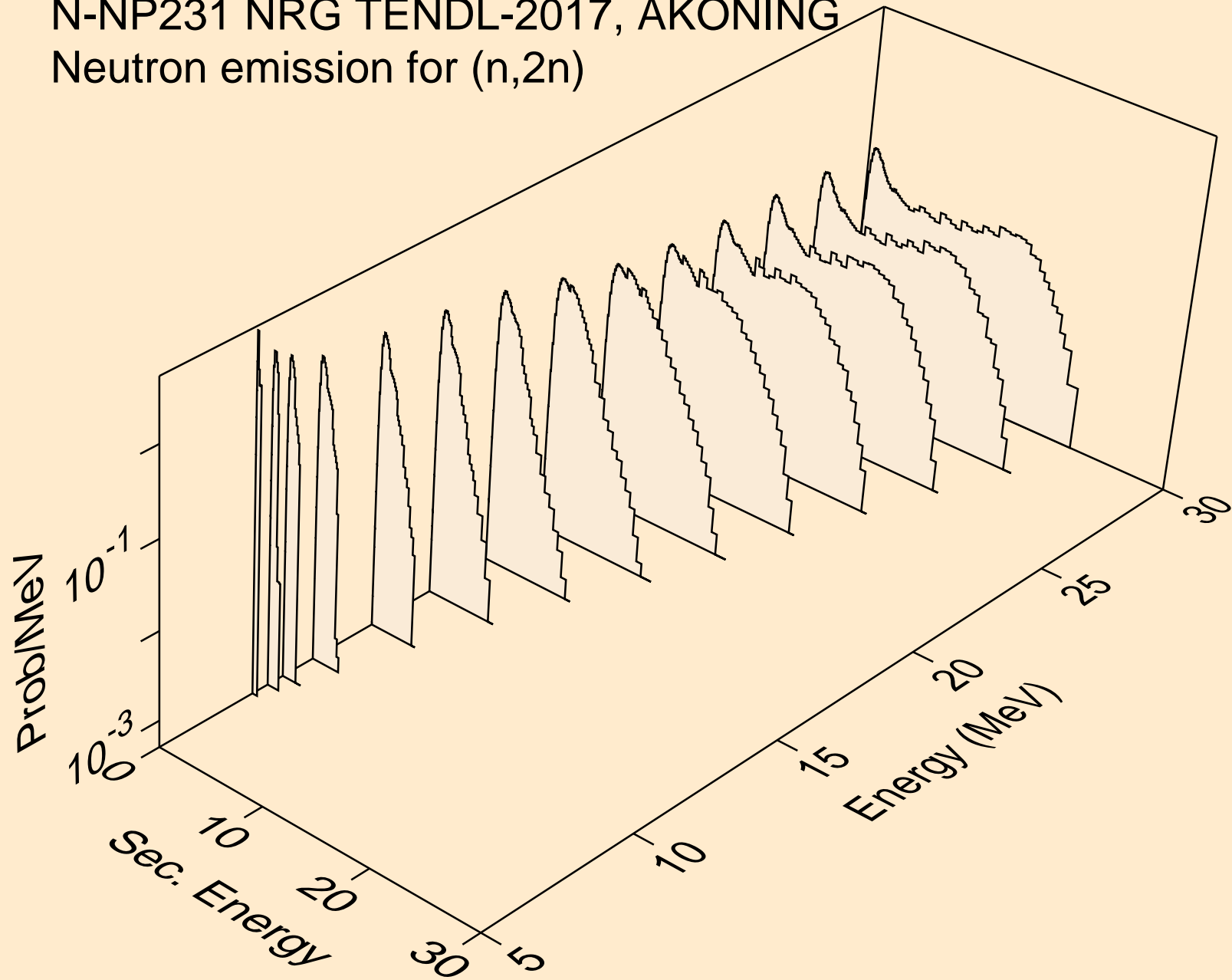




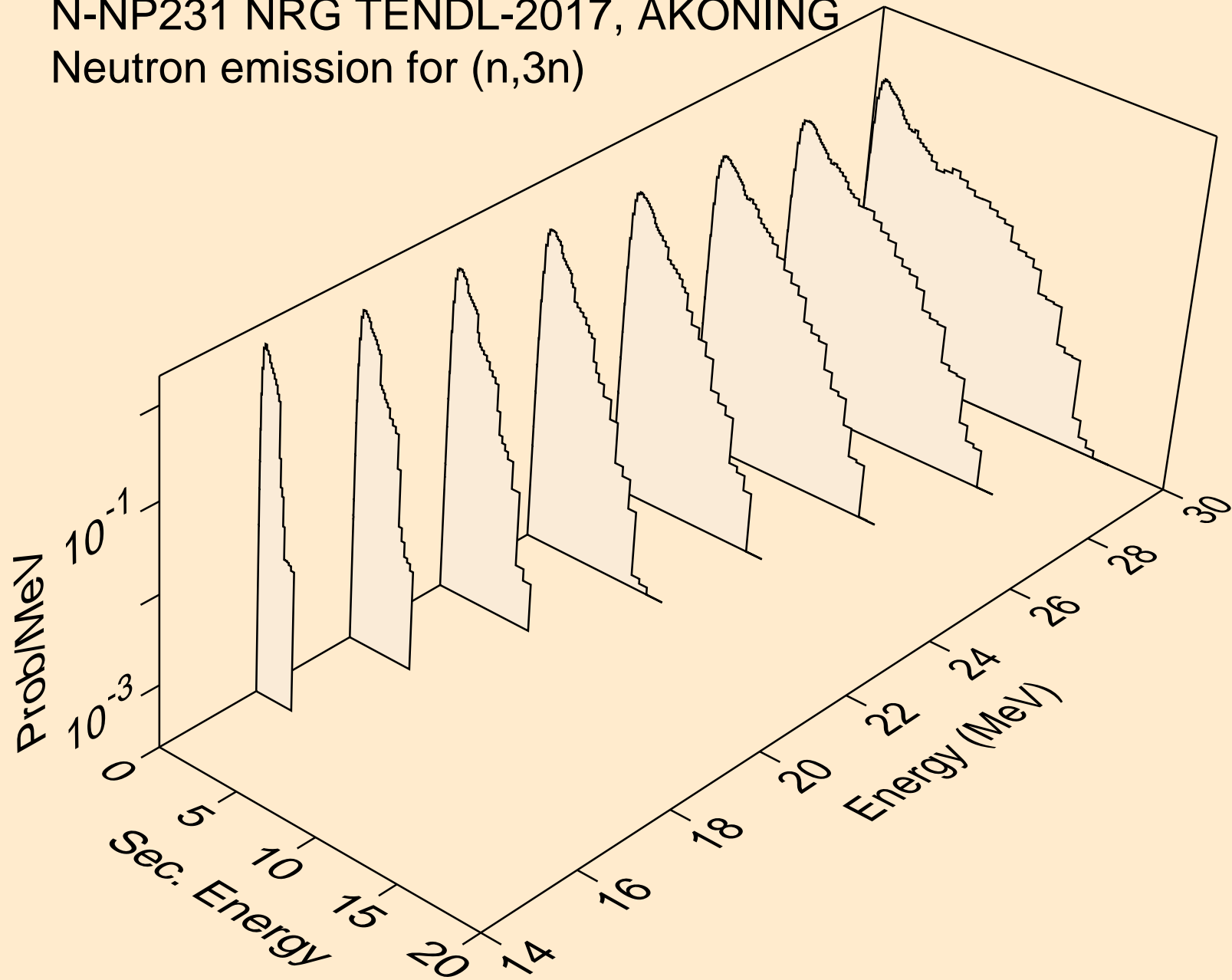
N-NP231 NRG TENDL-2017, AKONING  
Neutron emission for (n,2nd)



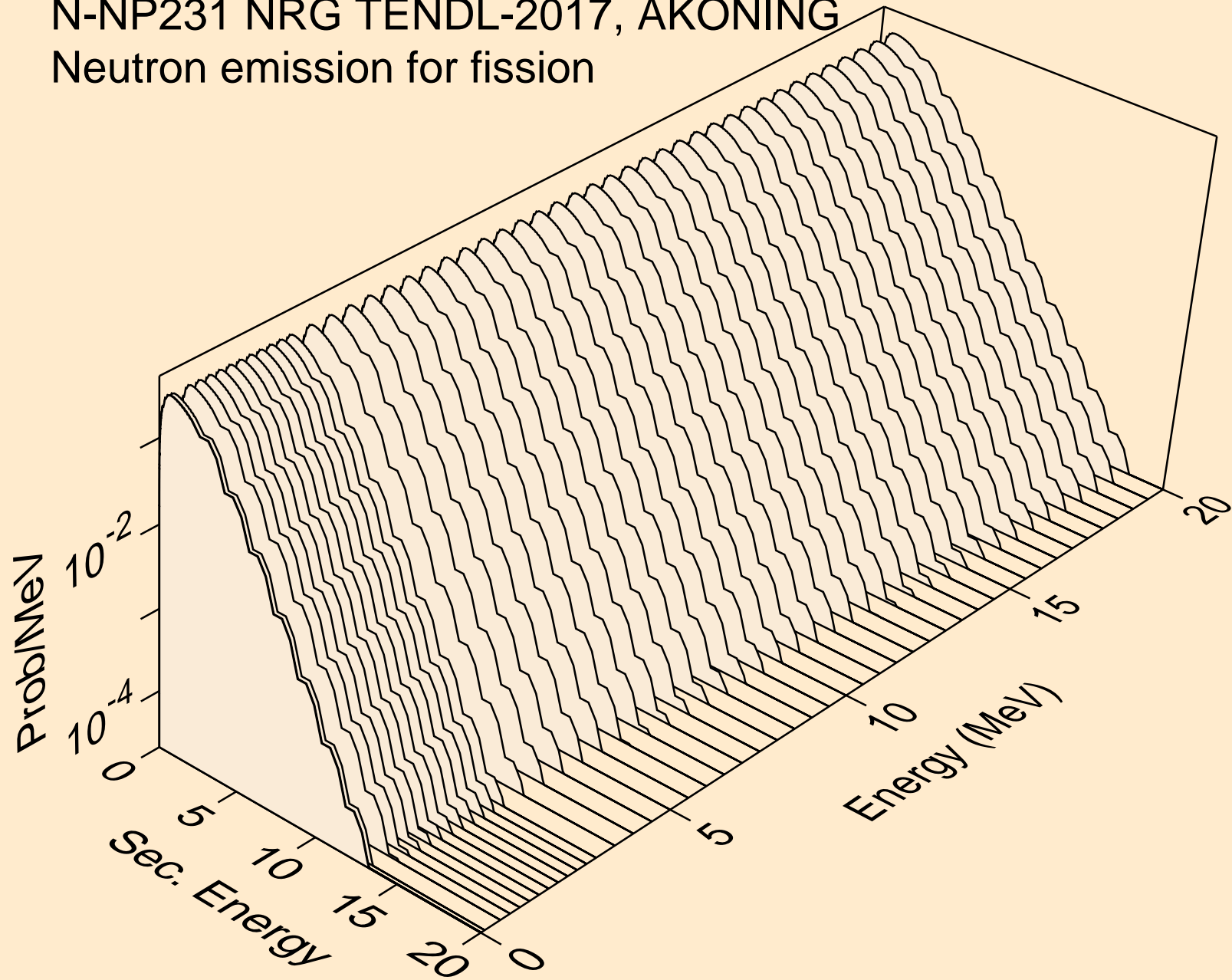
N-NP231 NRG TENDL-2017, AKONING  
Neutron emission for (n,2n)



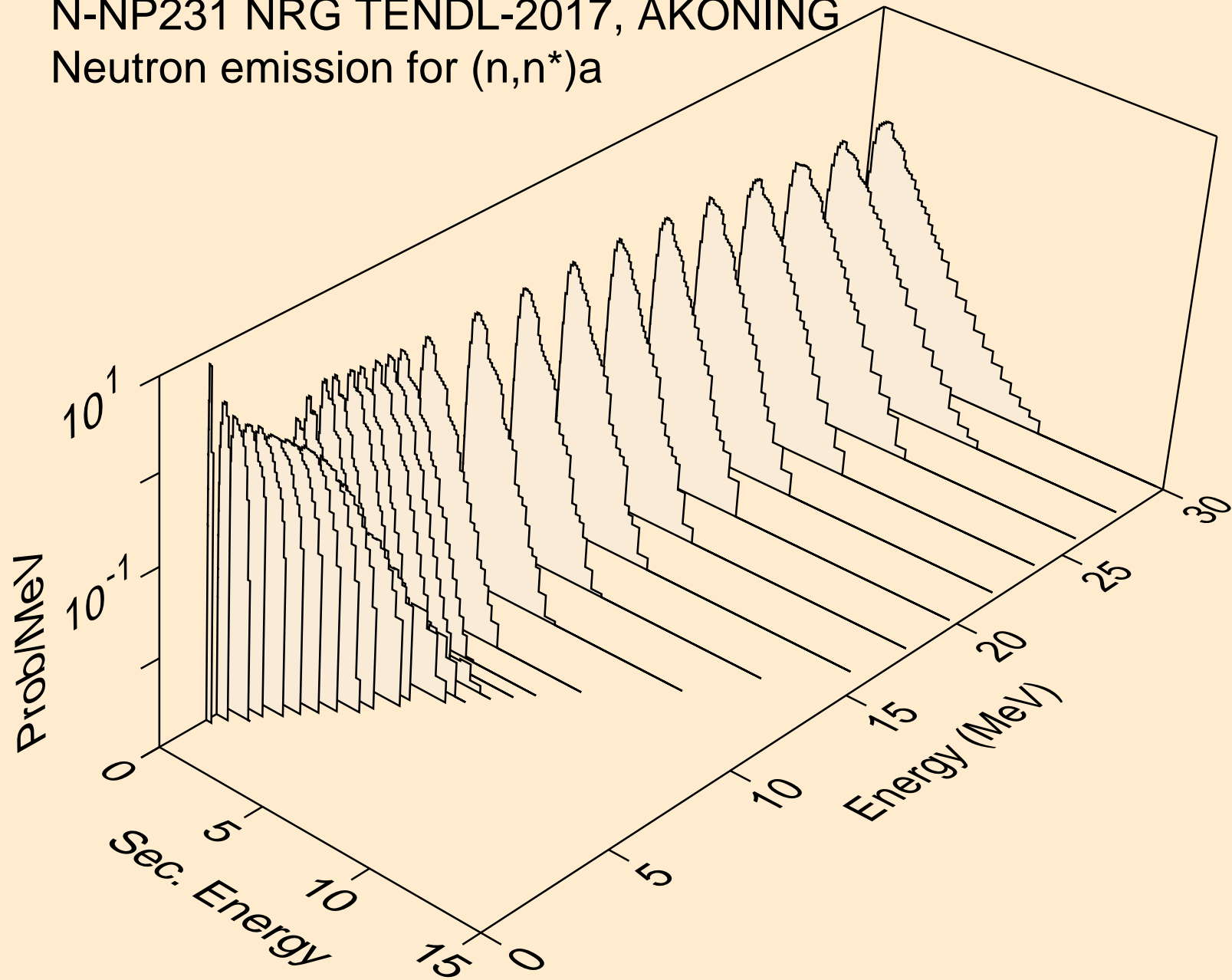
N-NP231 NRG TENDL-2017, AKONING  
Neutron emission for (n,3n)



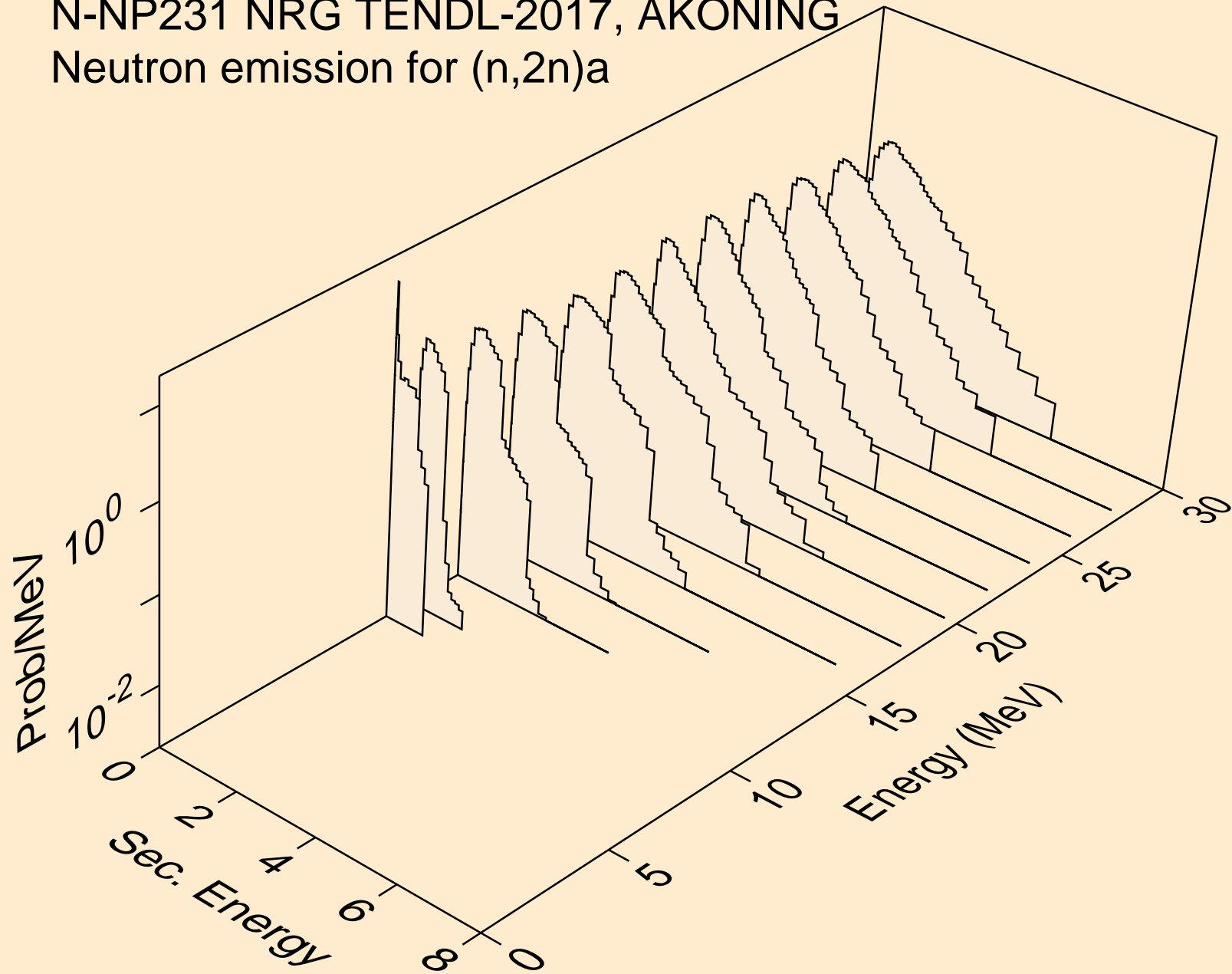
N-NP231 NRG TENDL-2017, AKONING  
Neutron emission for fission



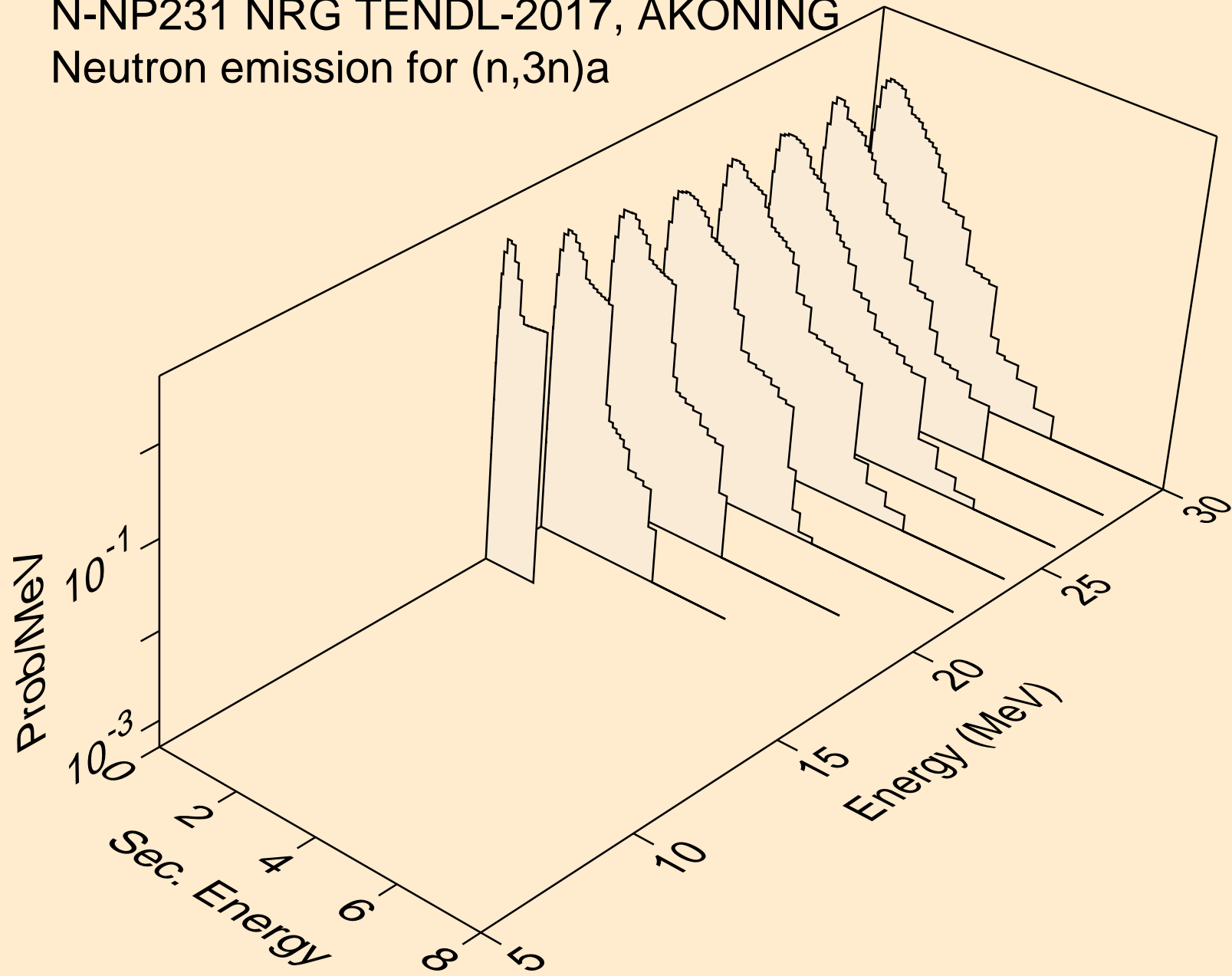
N-NP231 NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*)a



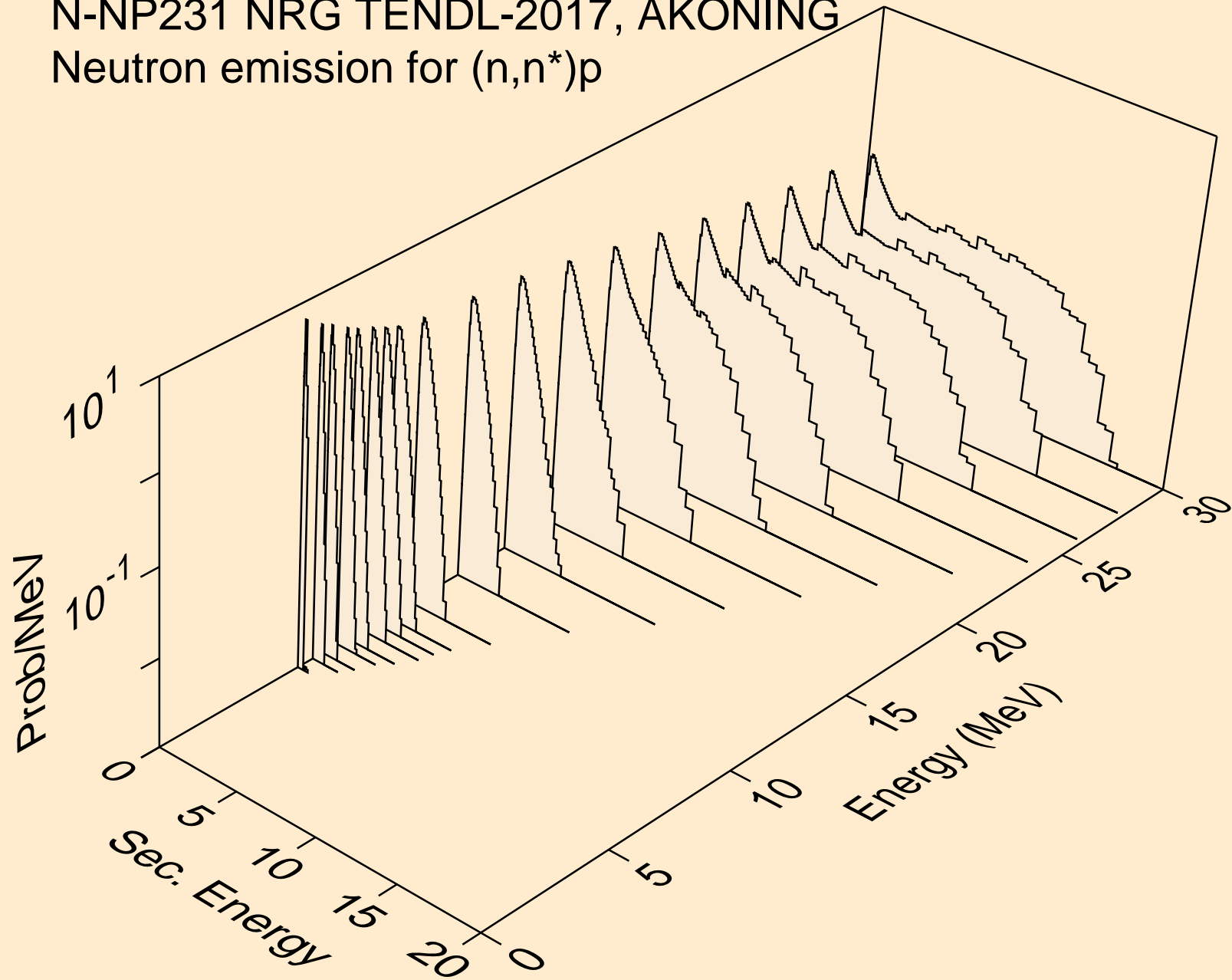
N-NP231 NRG TENDL-2017, AKONING  
Neutron emission for (n,2n)a



N-NP231 NRG TENDL-2017, AKONING  
Neutron emission for (n,3n)a

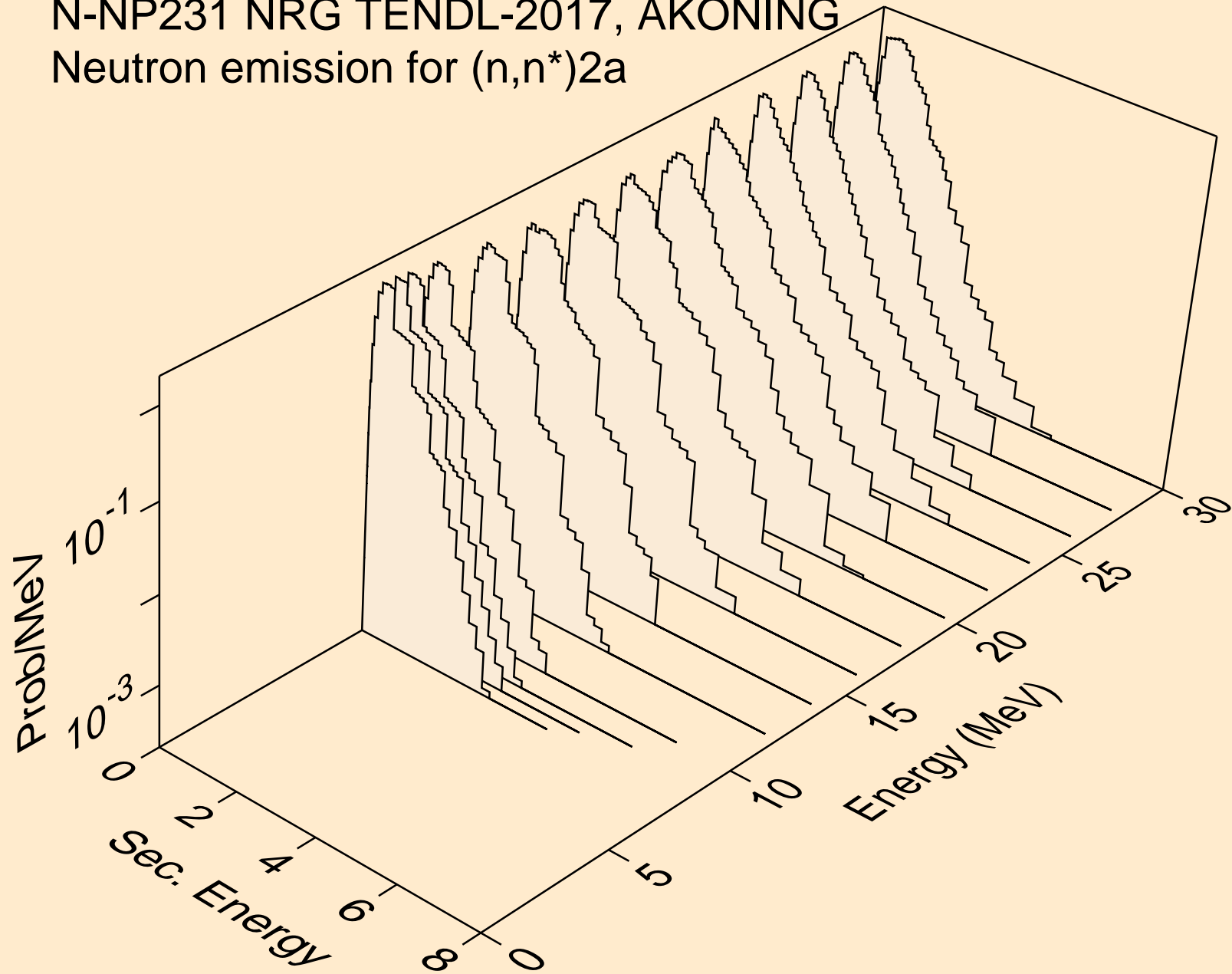


N-NP231 NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*)p

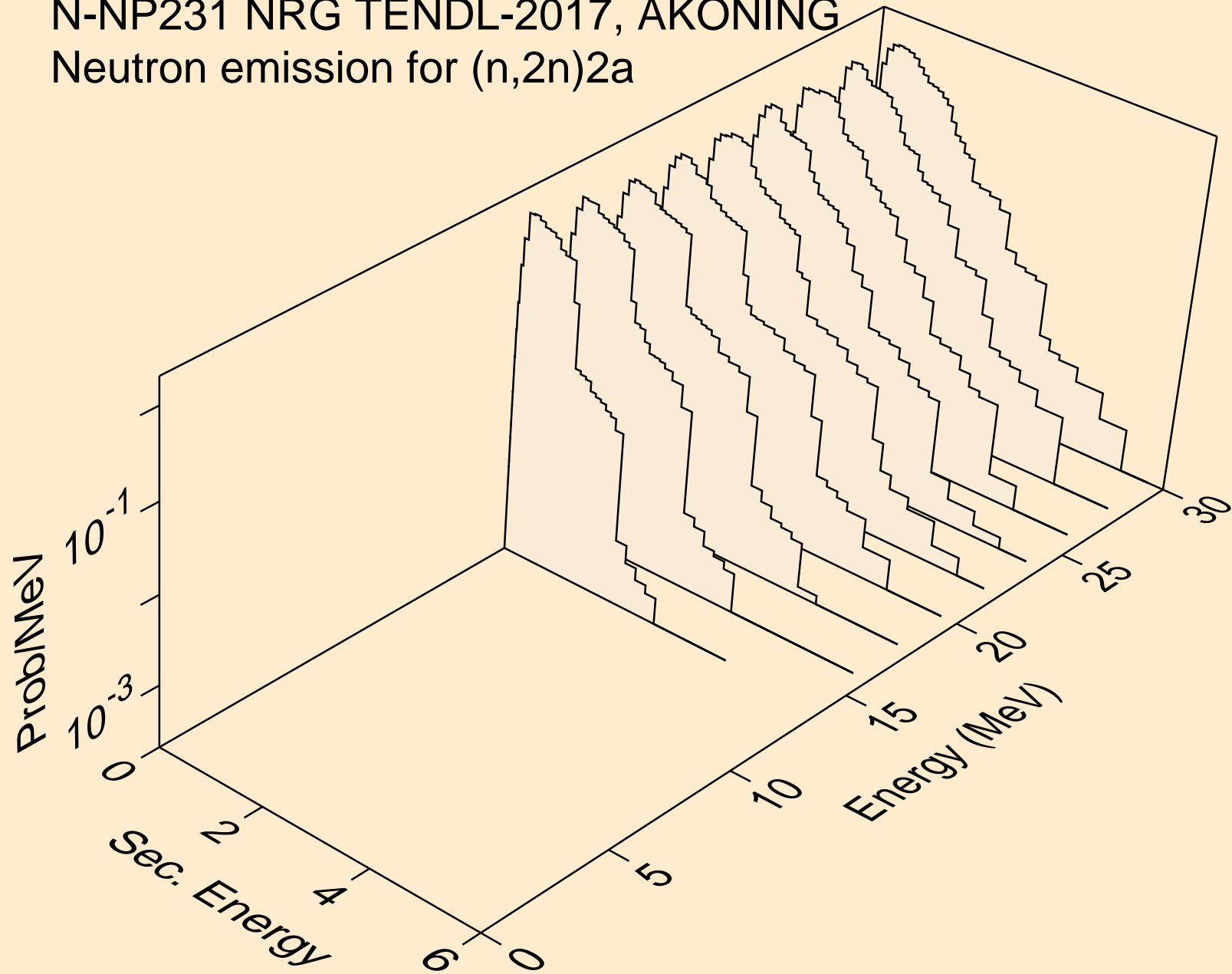




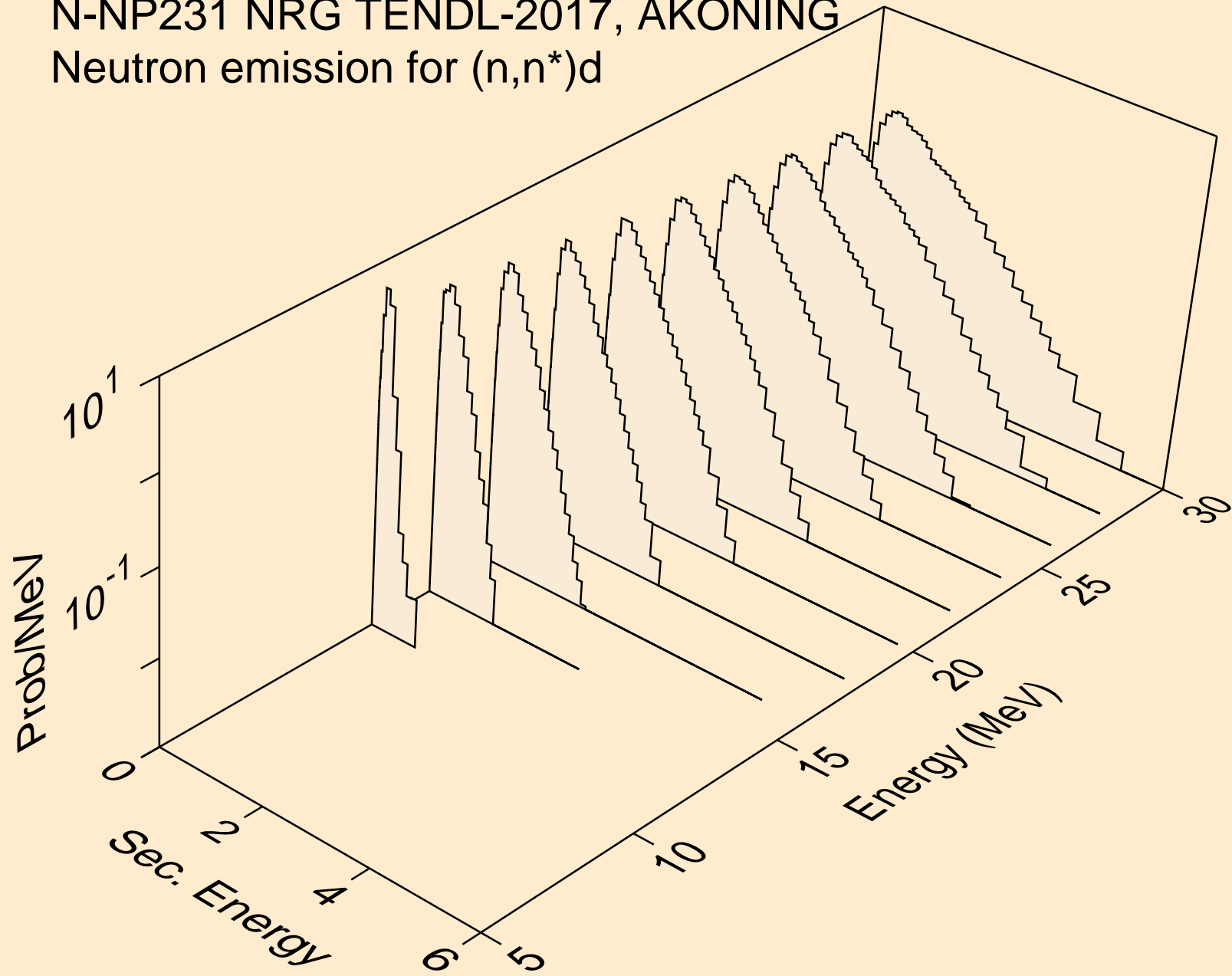
N-NP231 NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*)2a



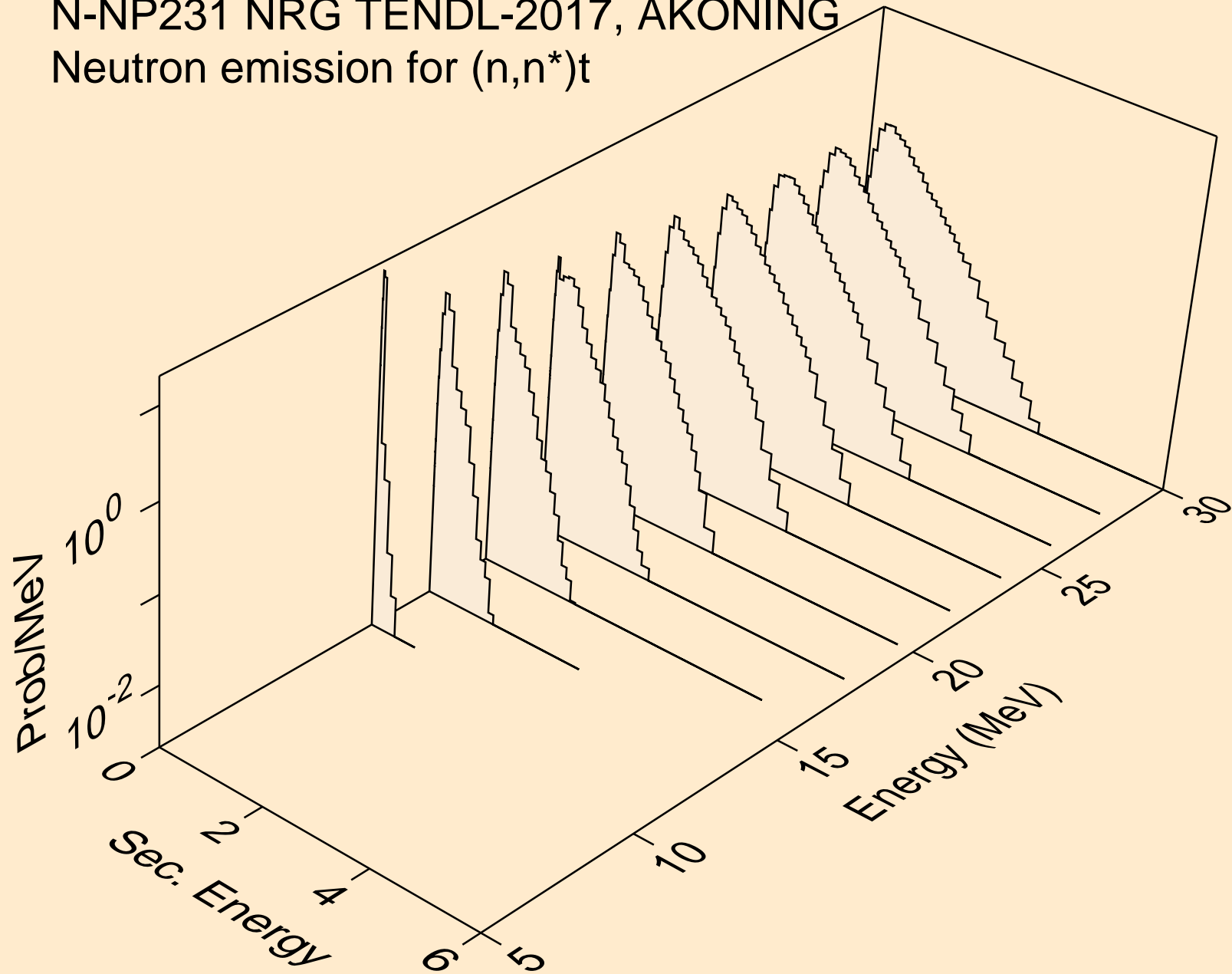
N-NP231 NRG TENDL-2017, AKONING  
Neutron emission for (n,2n)2a



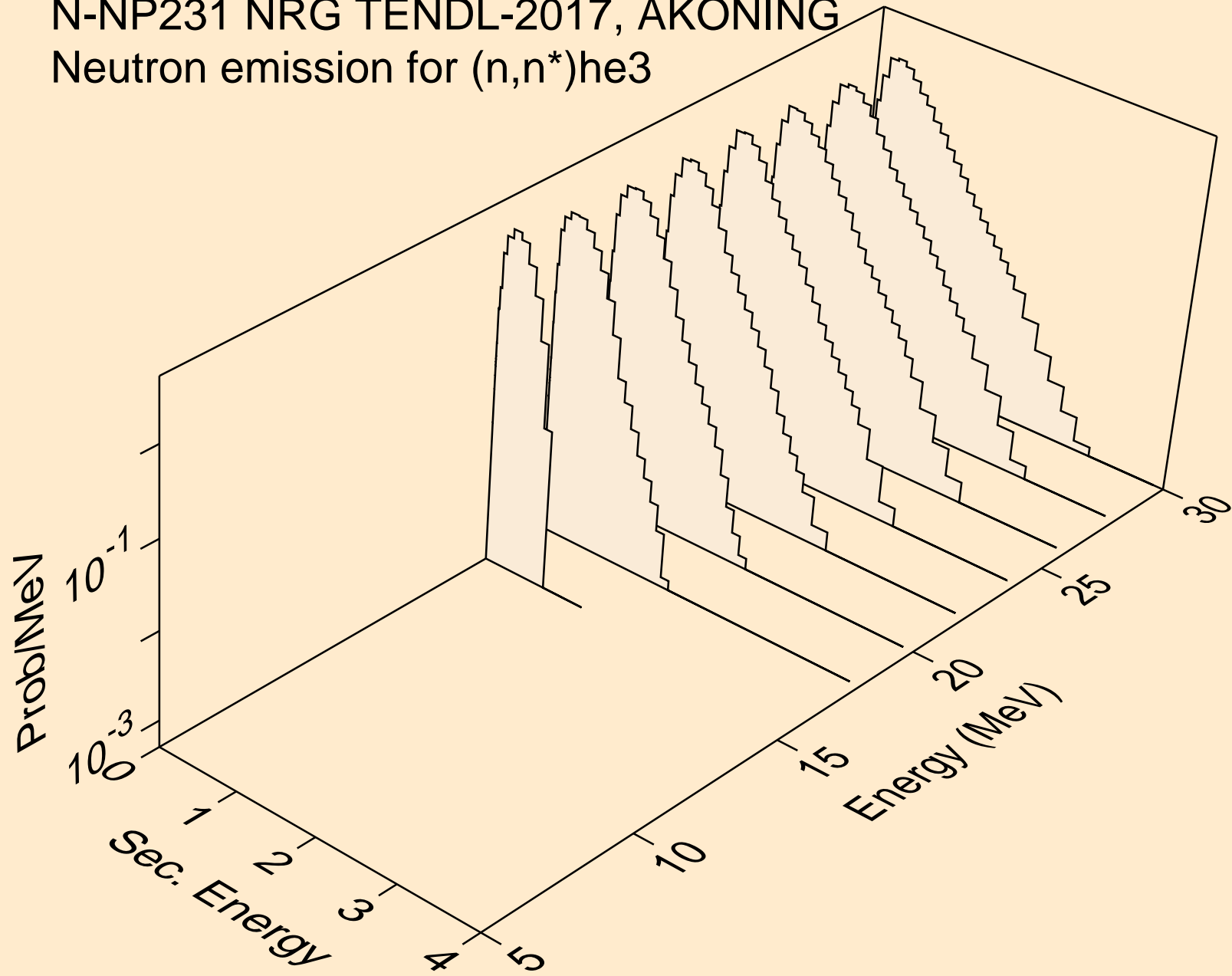
N-NP231 NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*)d



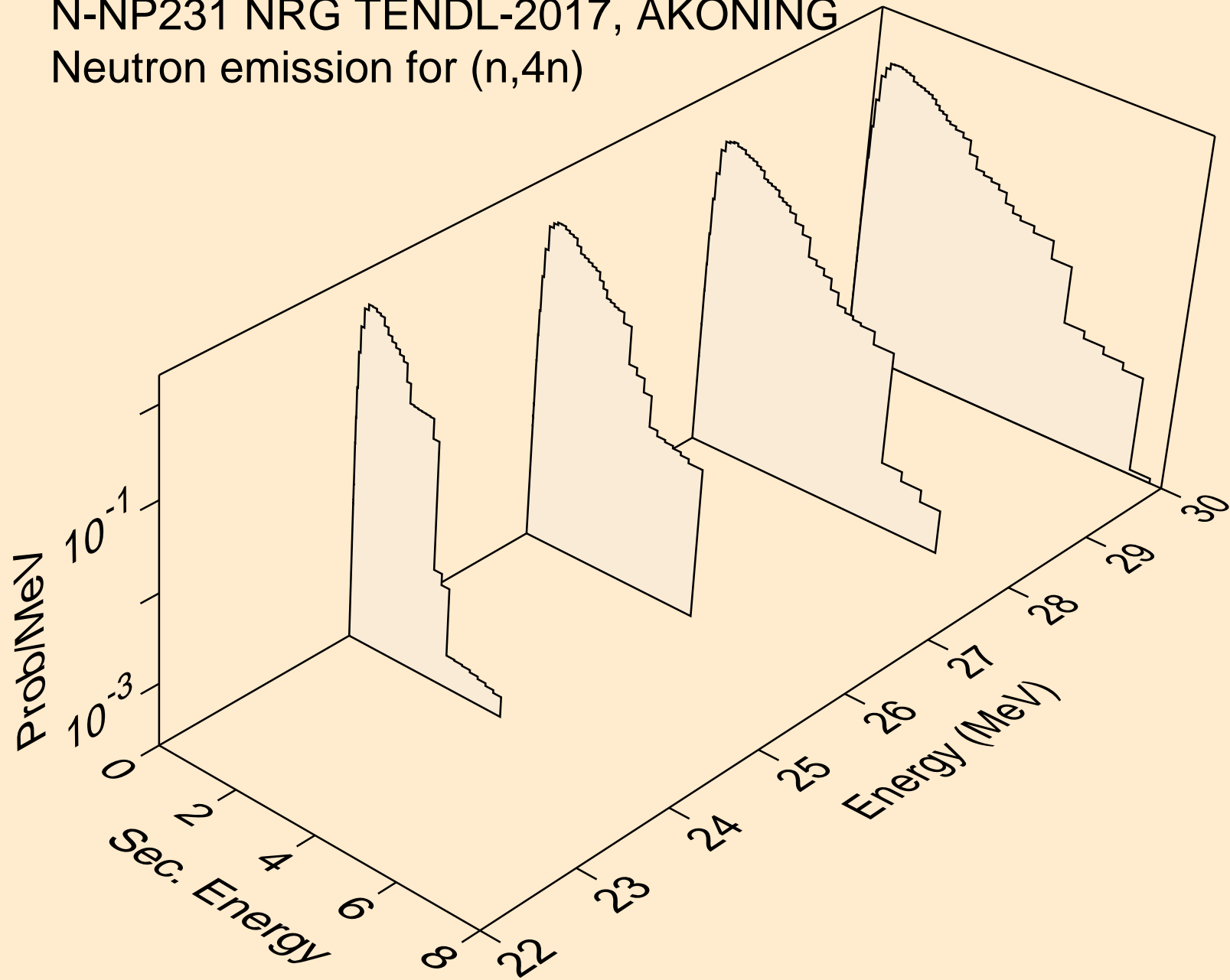
N-NP231 NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*)t



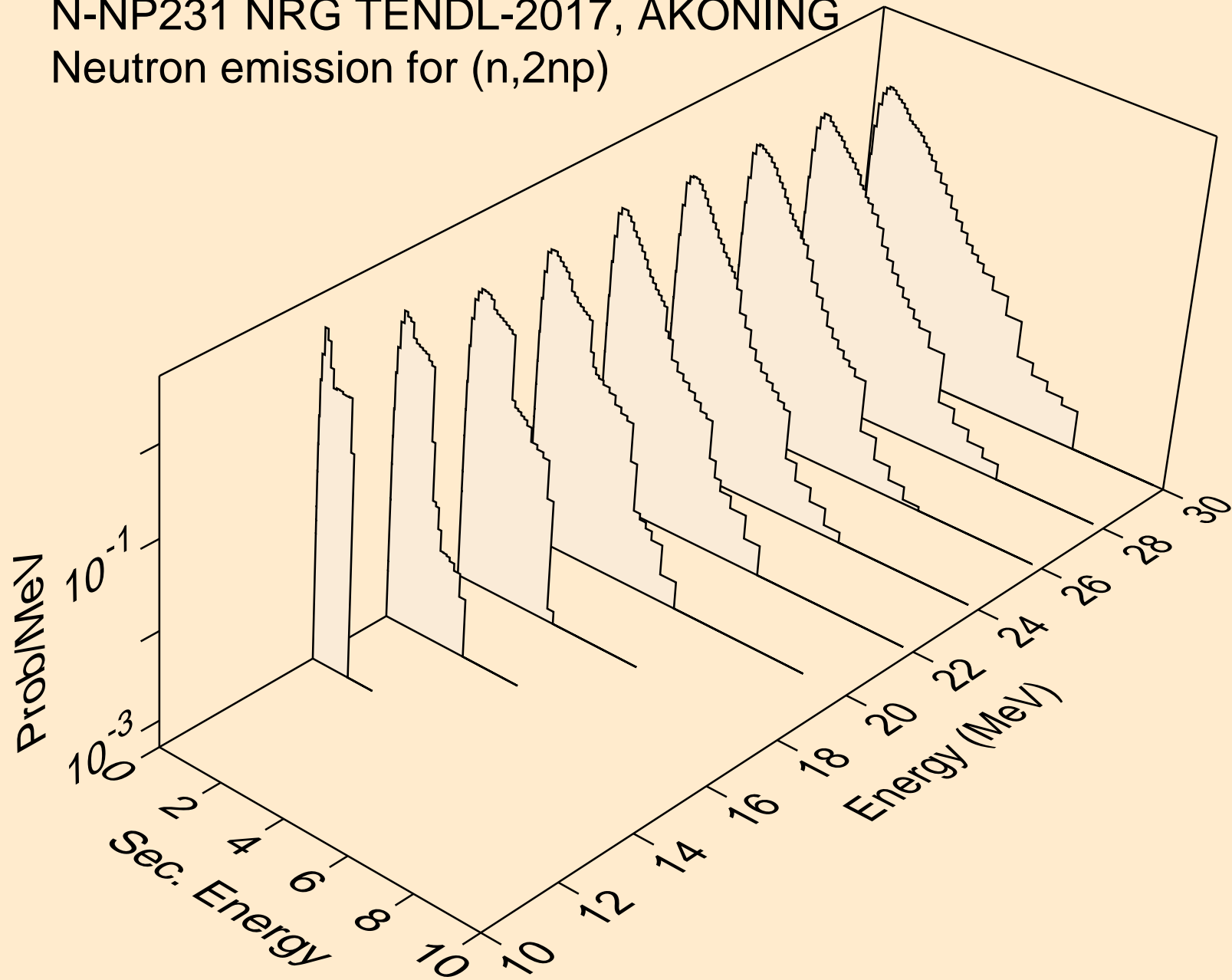
N-NP231 NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*)he3



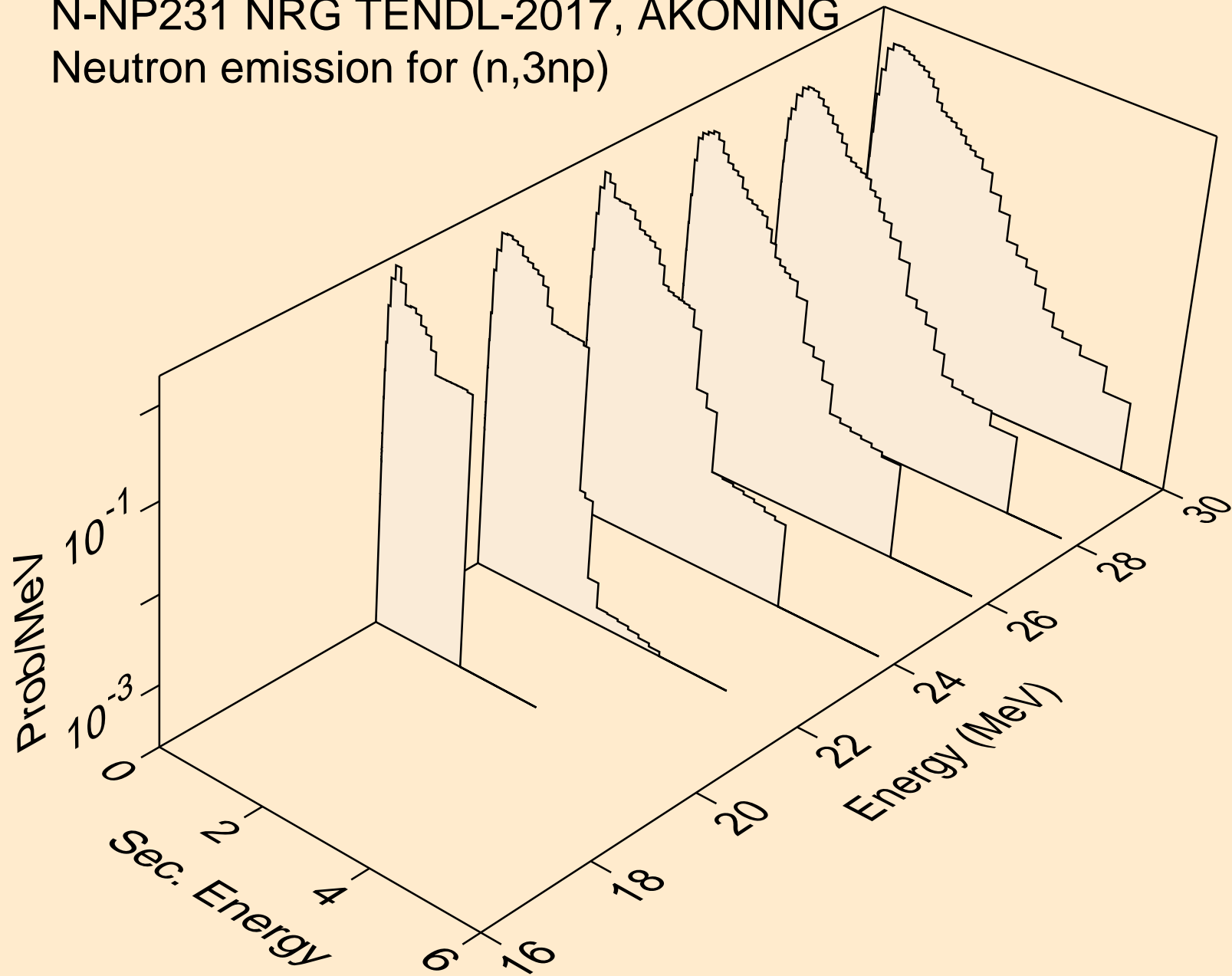
N-NP231 NRG TENDL-2017, AKONING  
Neutron emission for (n,4n)



N-NP231 NRG TENDL-2017, AKONING  
Neutron emission for (n,2np)

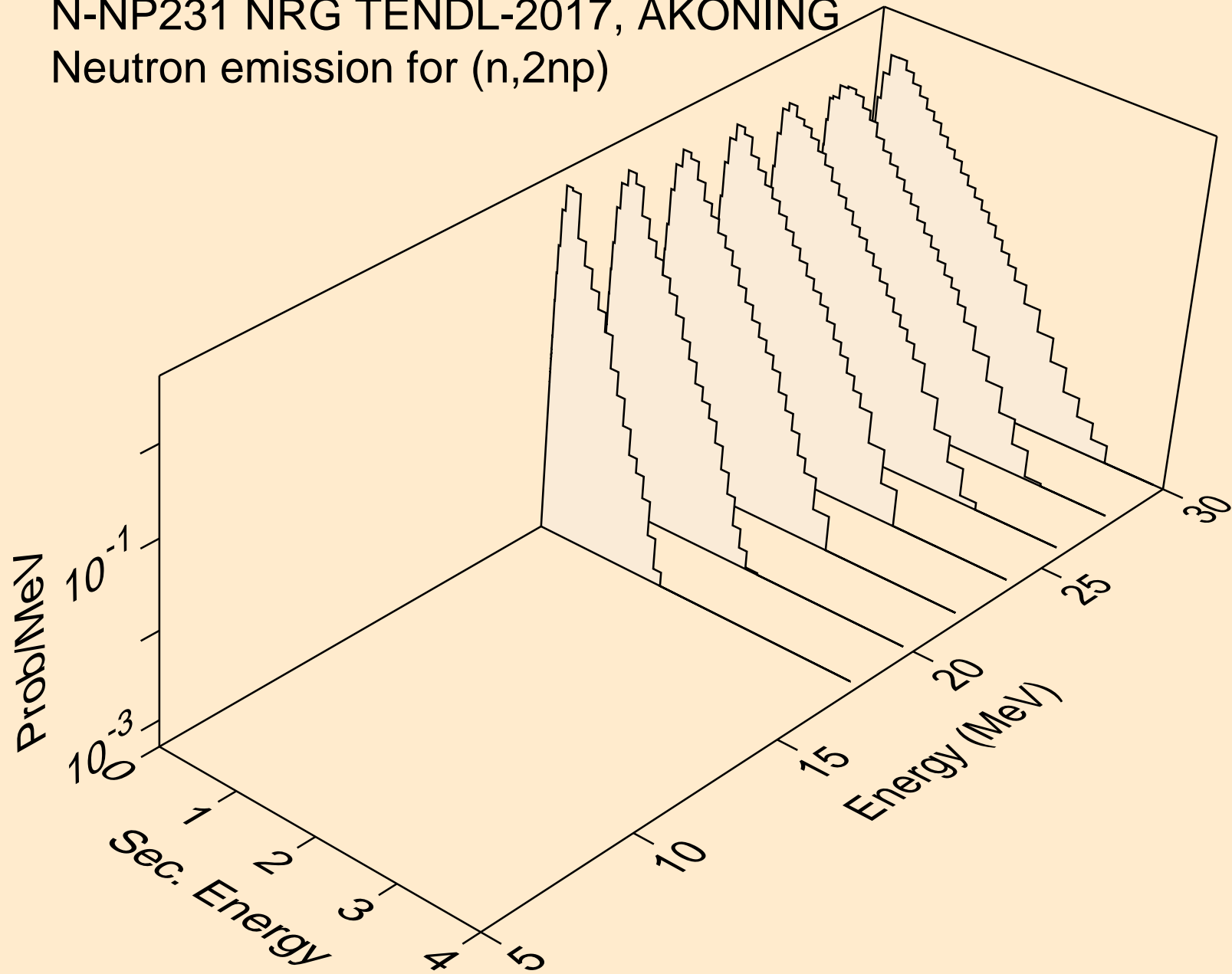


N-NP231 NRG TENDL-2017, AKONING  
Neutron emission for (n,3np)

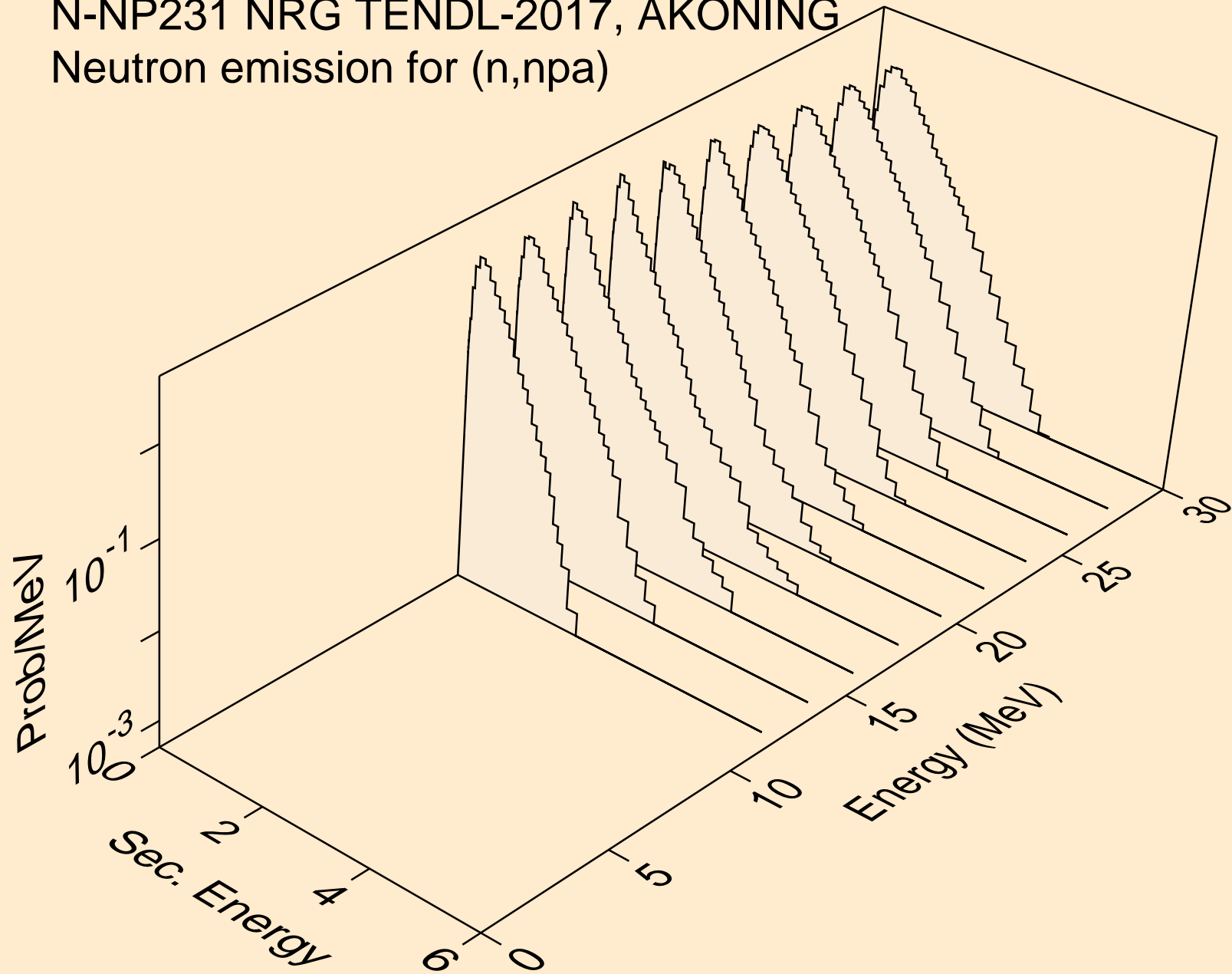




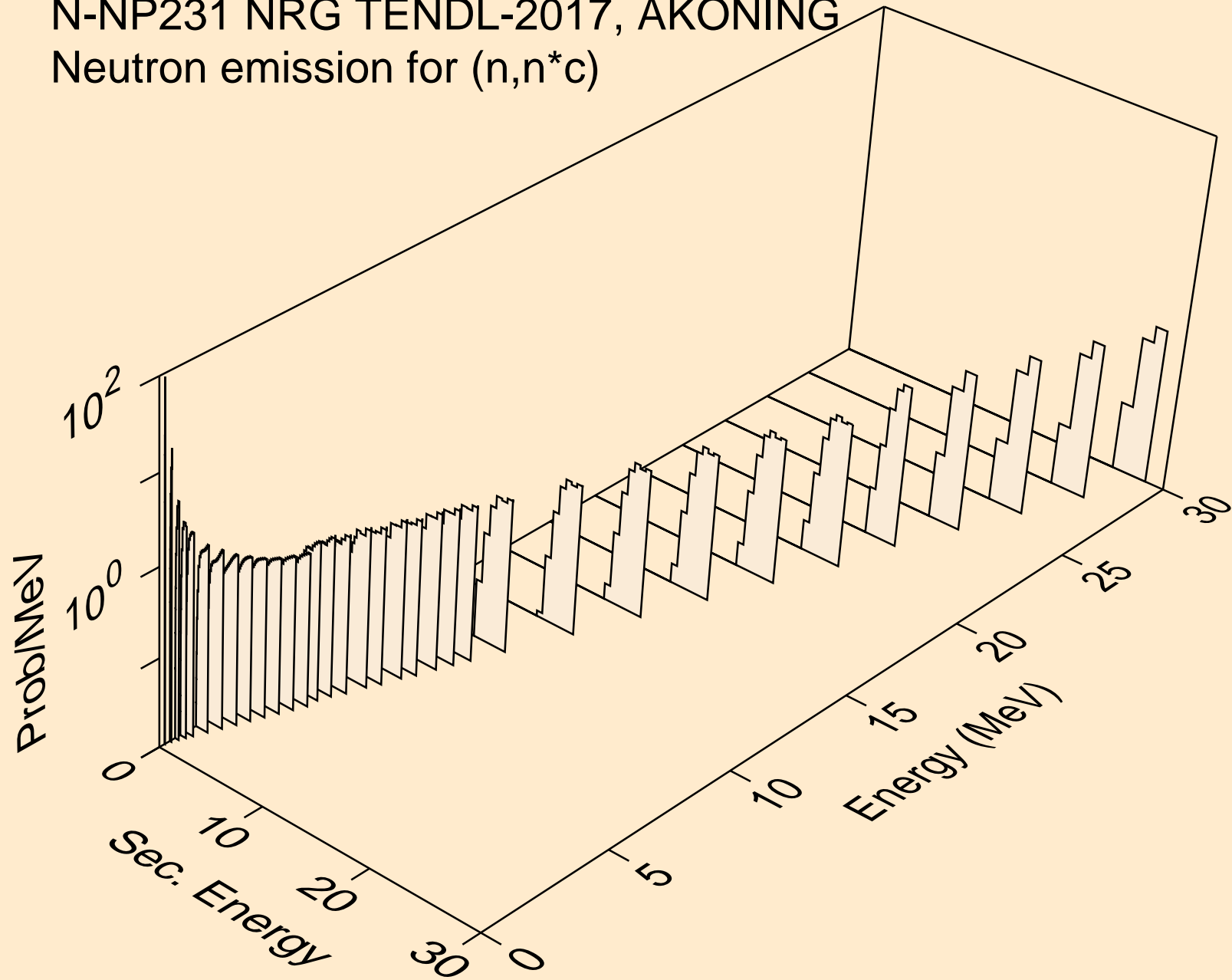
N-NP231 NRG TENDL-2017, AKONING  
Neutron emission for (n,2np)



N-NP231 NRG TENDL-2017, AKONING  
Neutron emission for (n,npa)

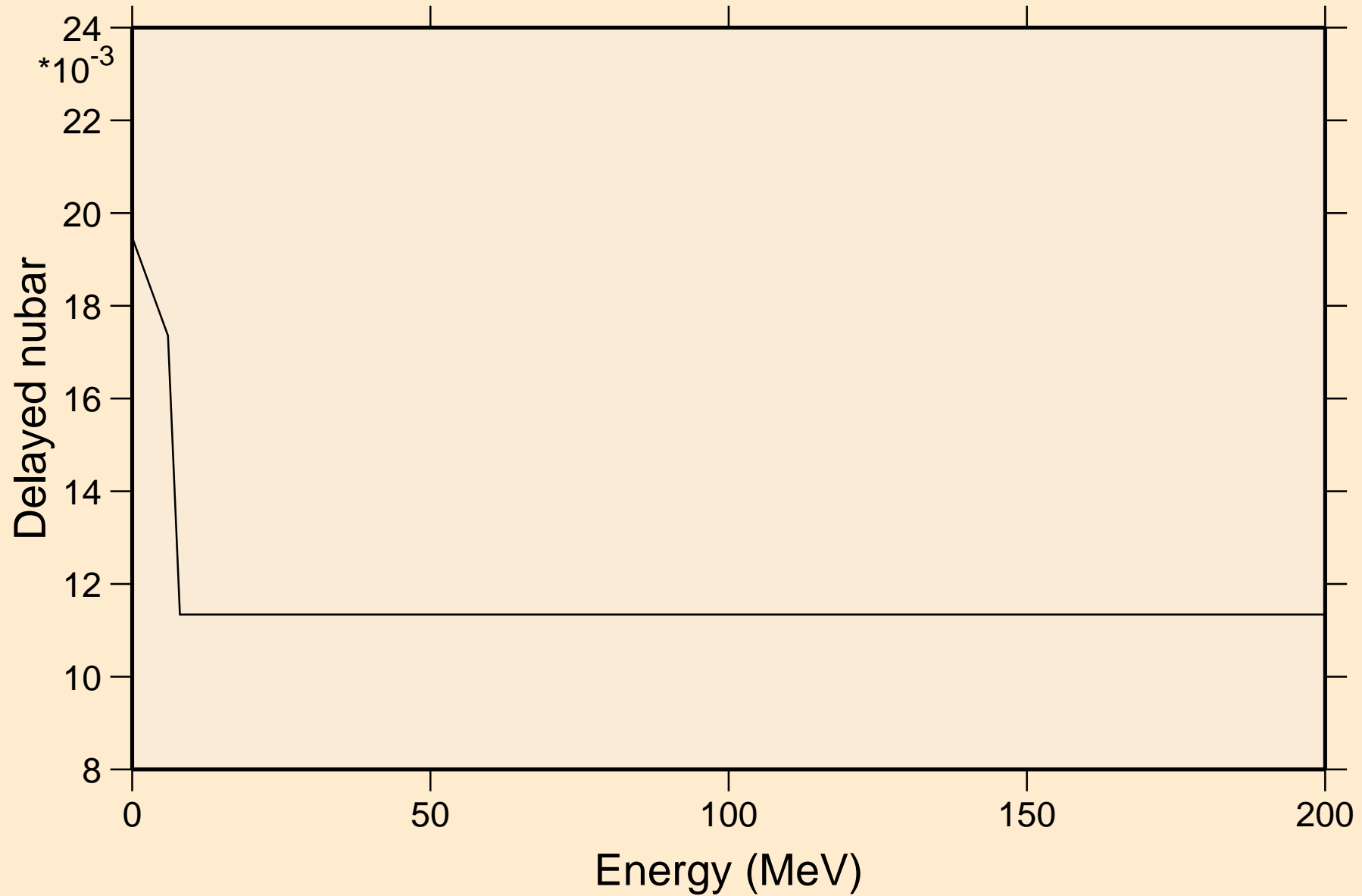


N-NP231 NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*c)



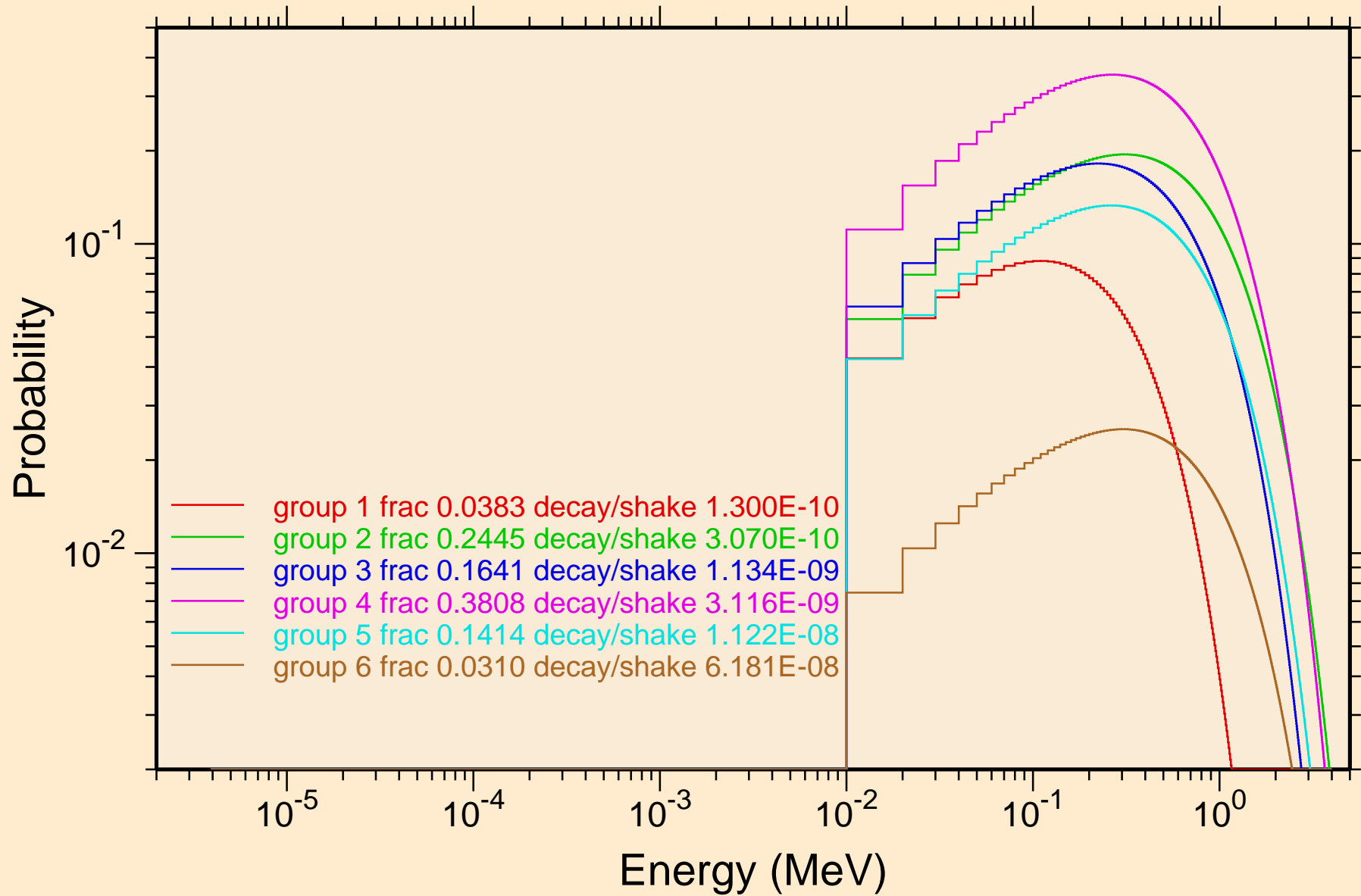
# N-NP231 NRG TENDL-2017, AKONING

## Delayed nubar

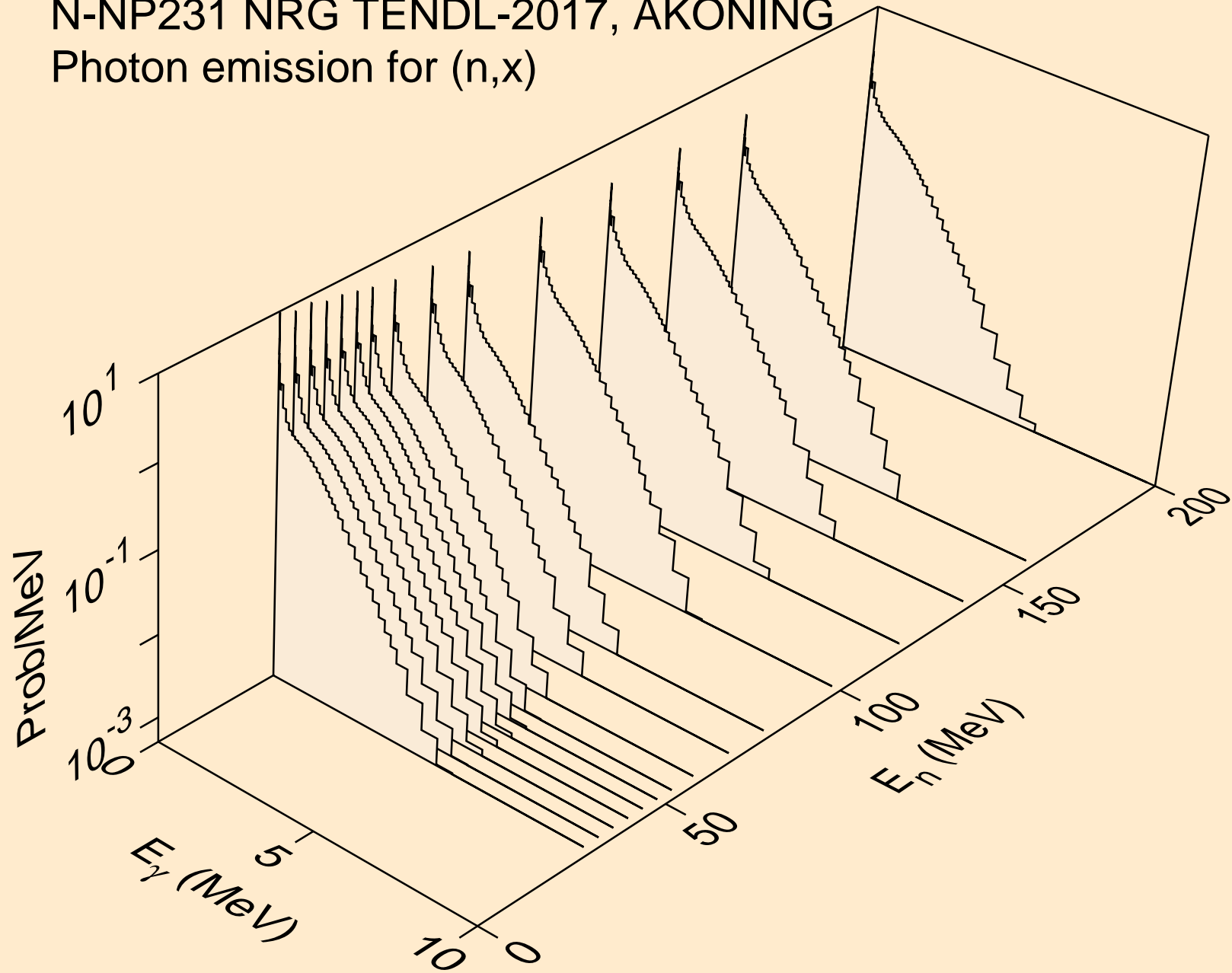


# N-NP231 NRG TENDL-2017, AKONING

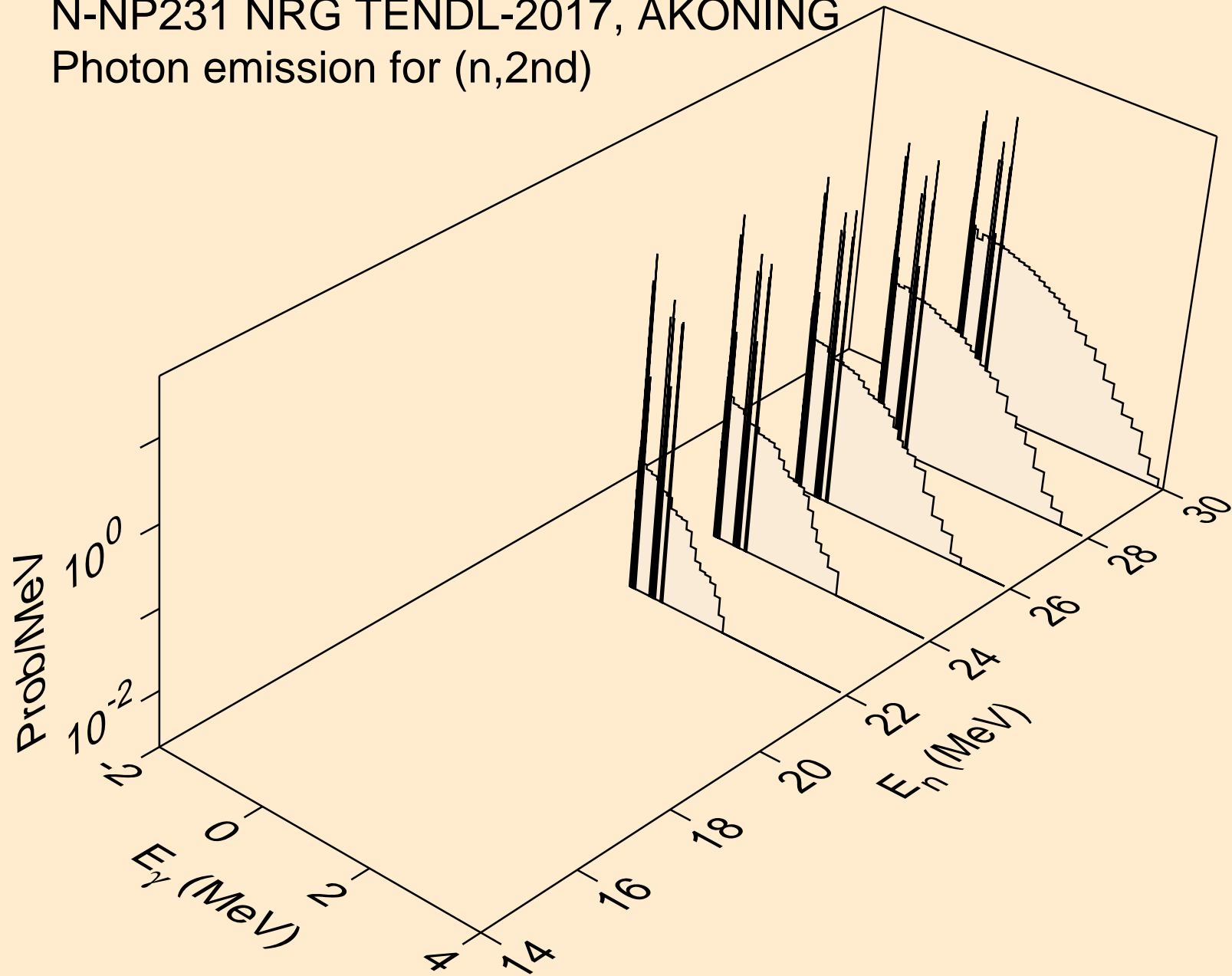
## Delayed neutron spectra



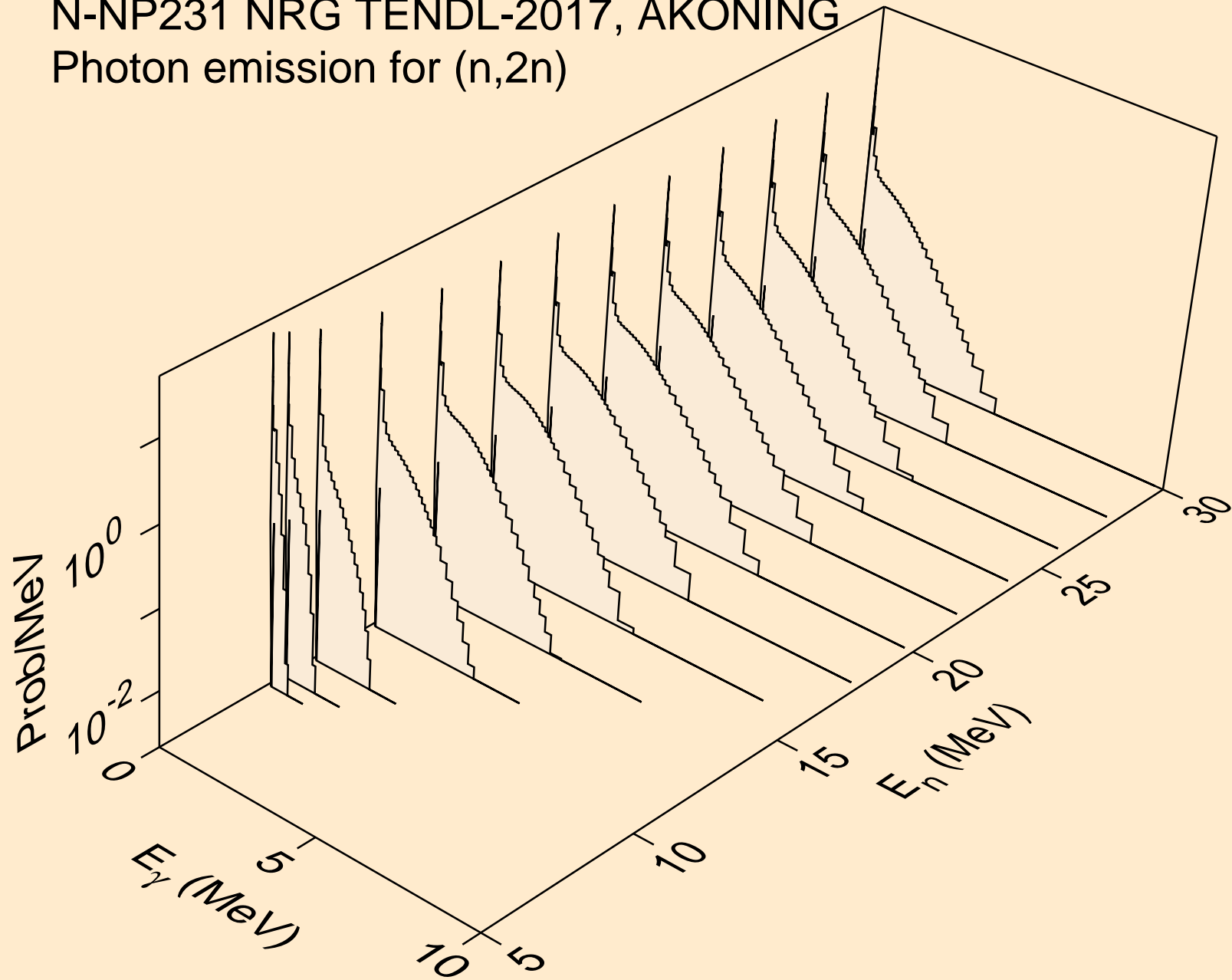
N-NP231 NRG TENDL-2017, AKONING  
Photon emission for (n,x)



N-NP231 NRG TENDL-2017, AKONING  
Photon emission for (n,2nd)

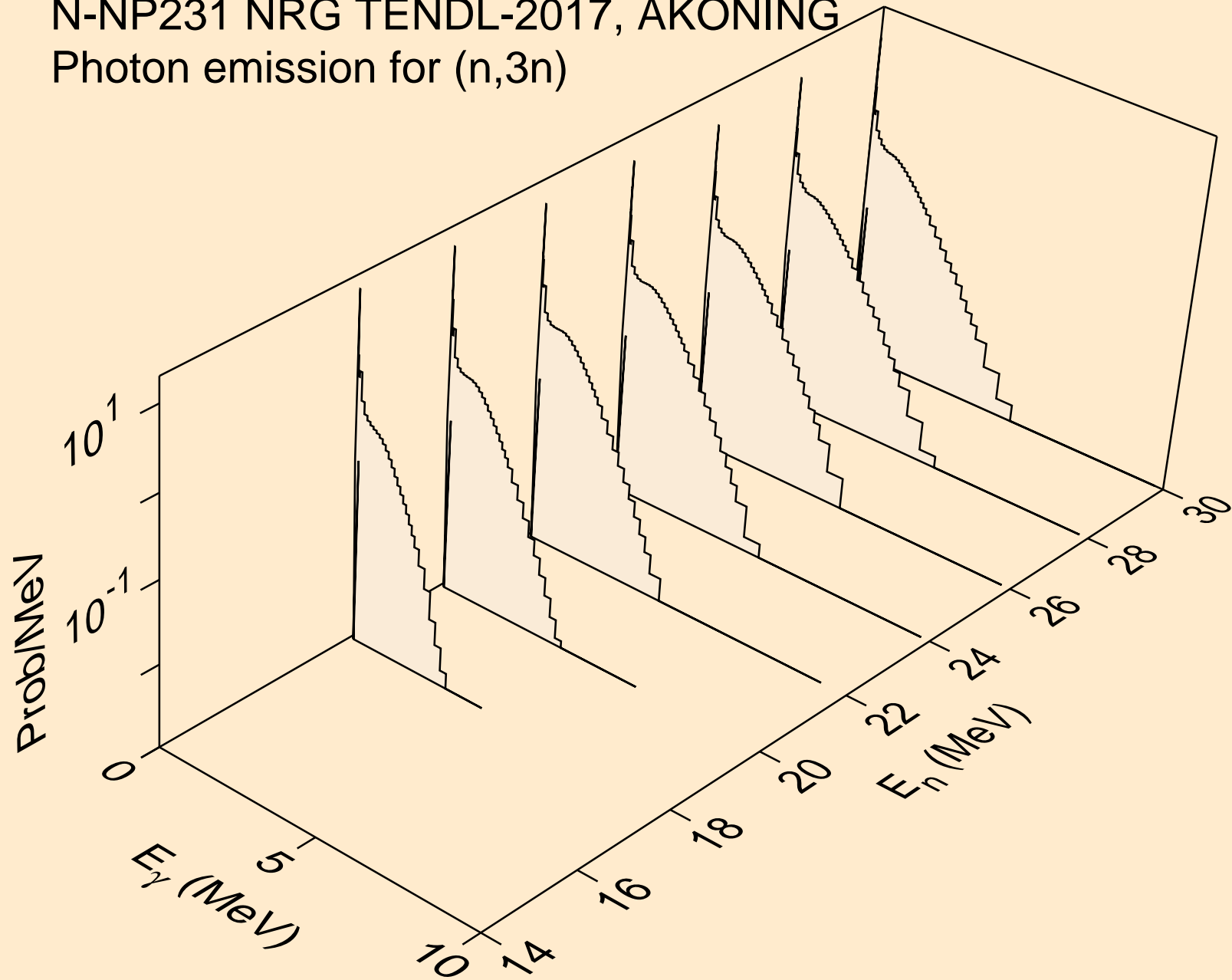


N-NP231 NRG TENDL-2017, AKONING  
Photon emission for (n,2n)

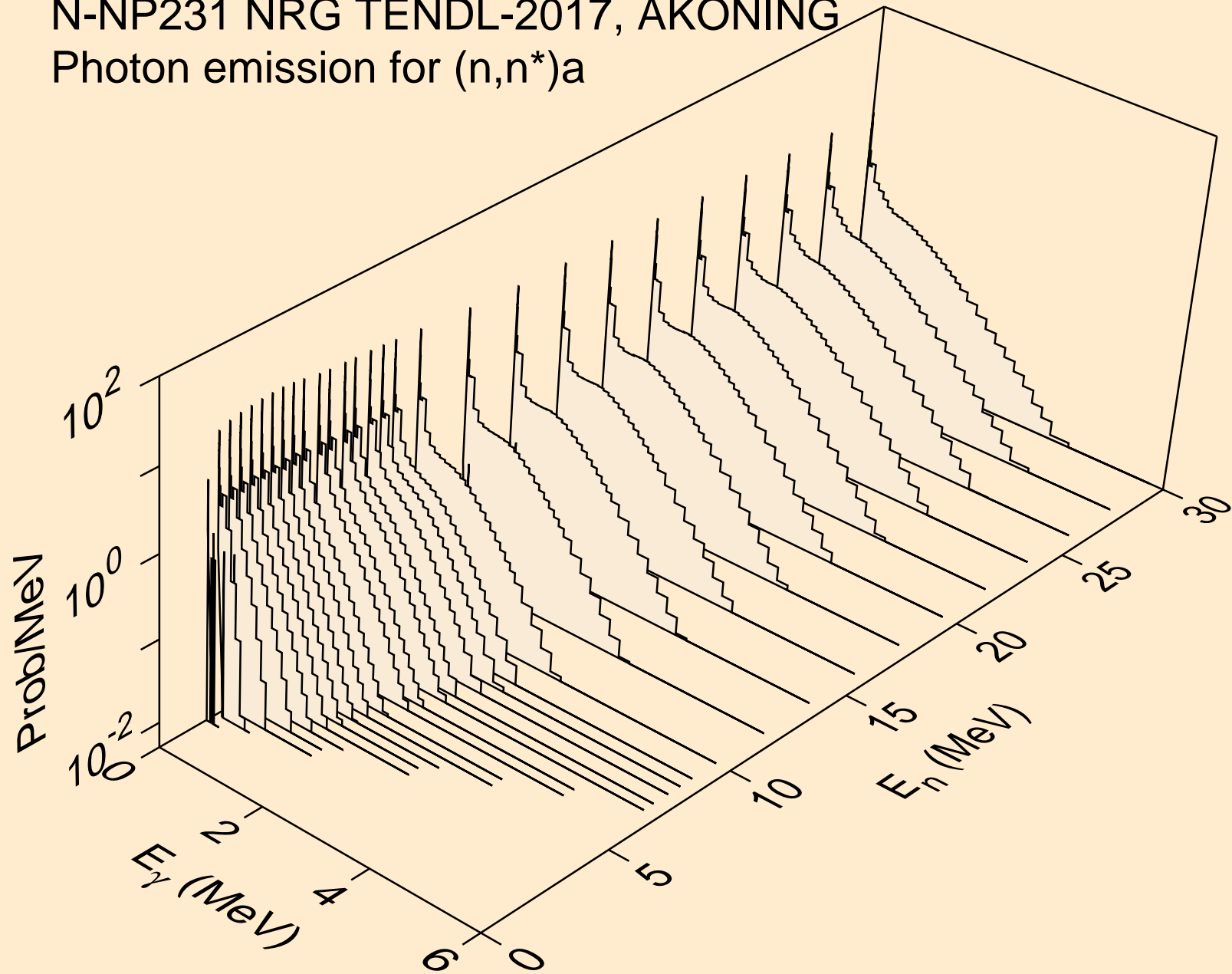




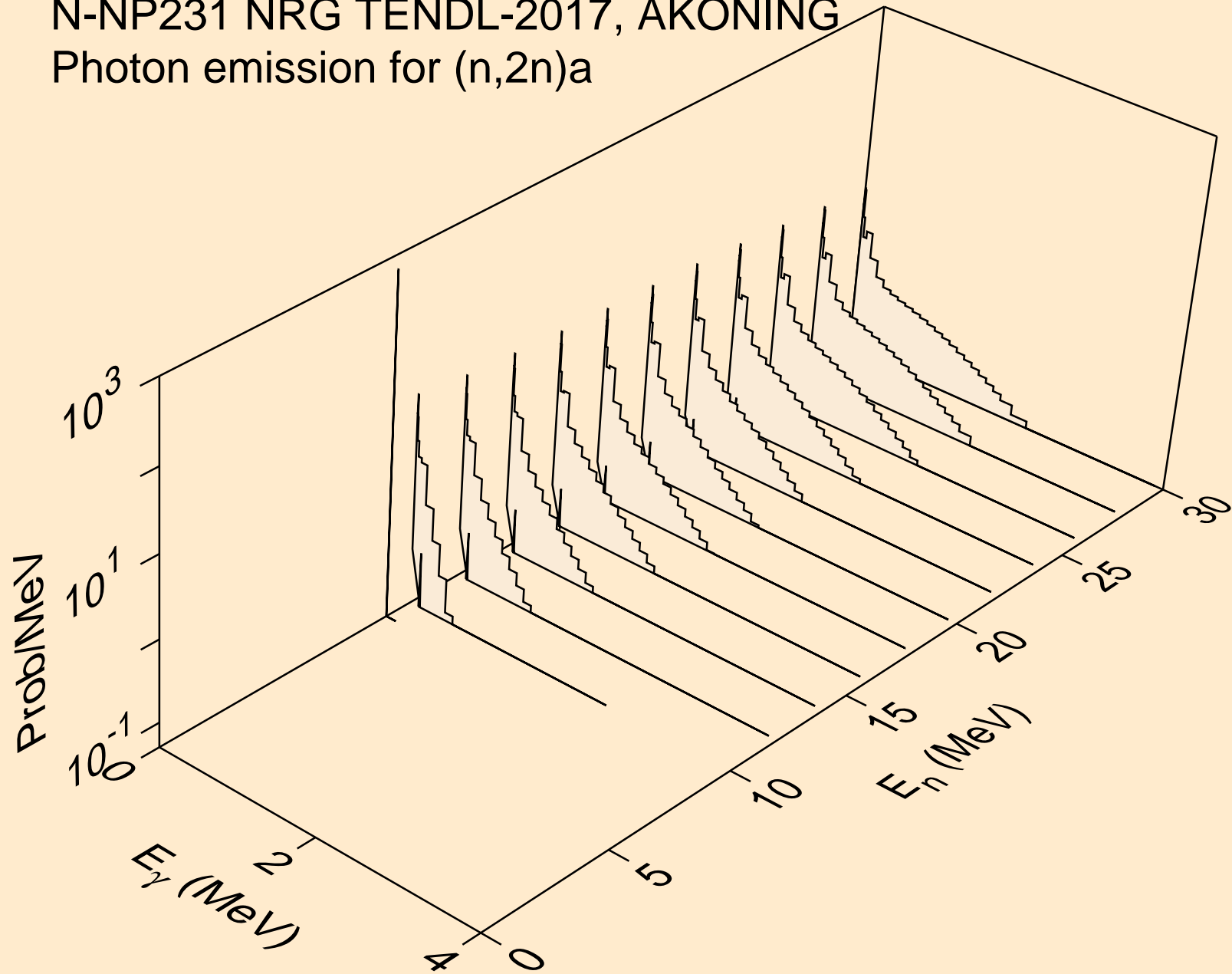
N-NP231 NRG TENDL-2017, AKONING  
Photon emission for (n,3n)



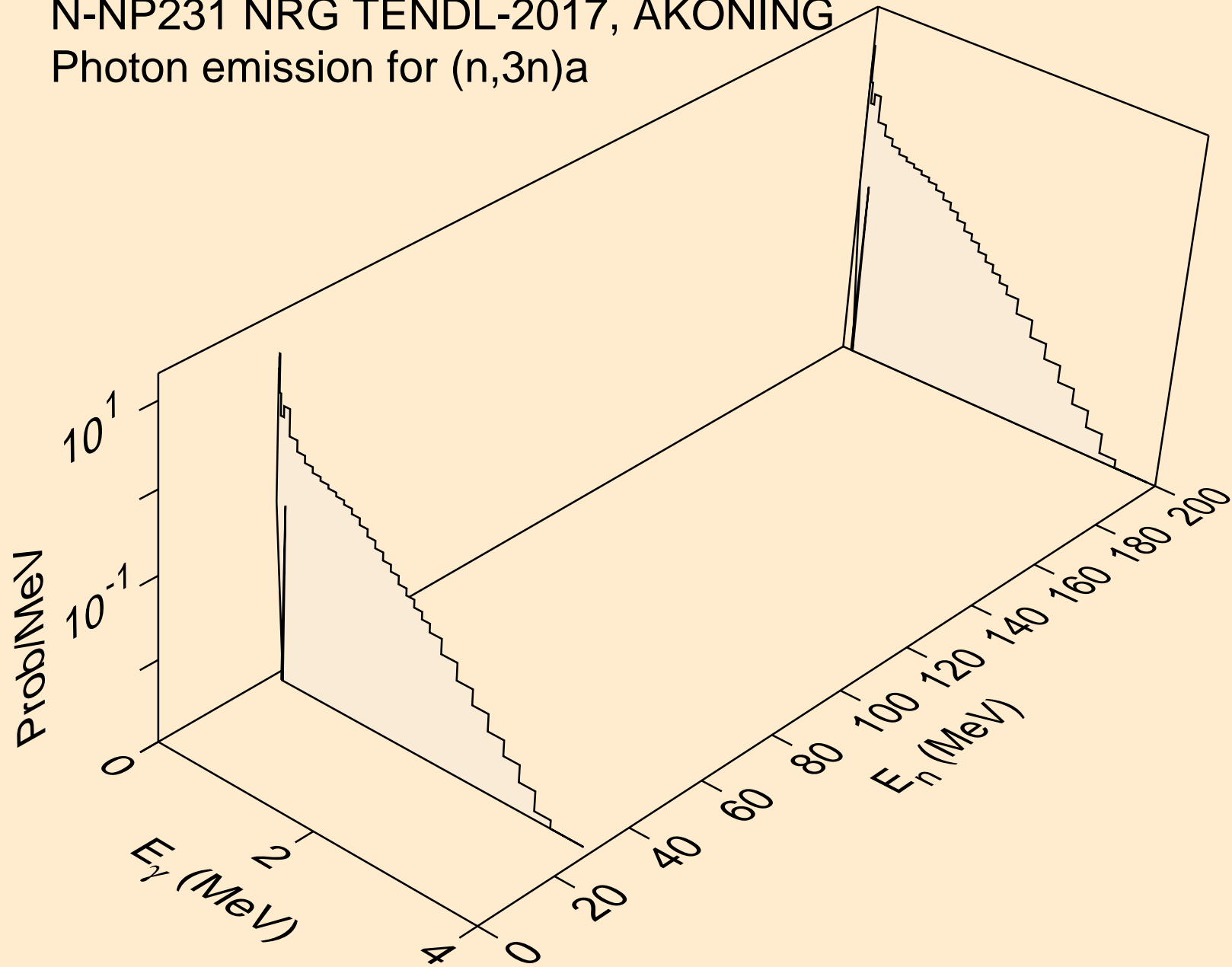
N-NP231 NRG TENDL-2017, AKONING  
Photon emission for (n,n\*)a



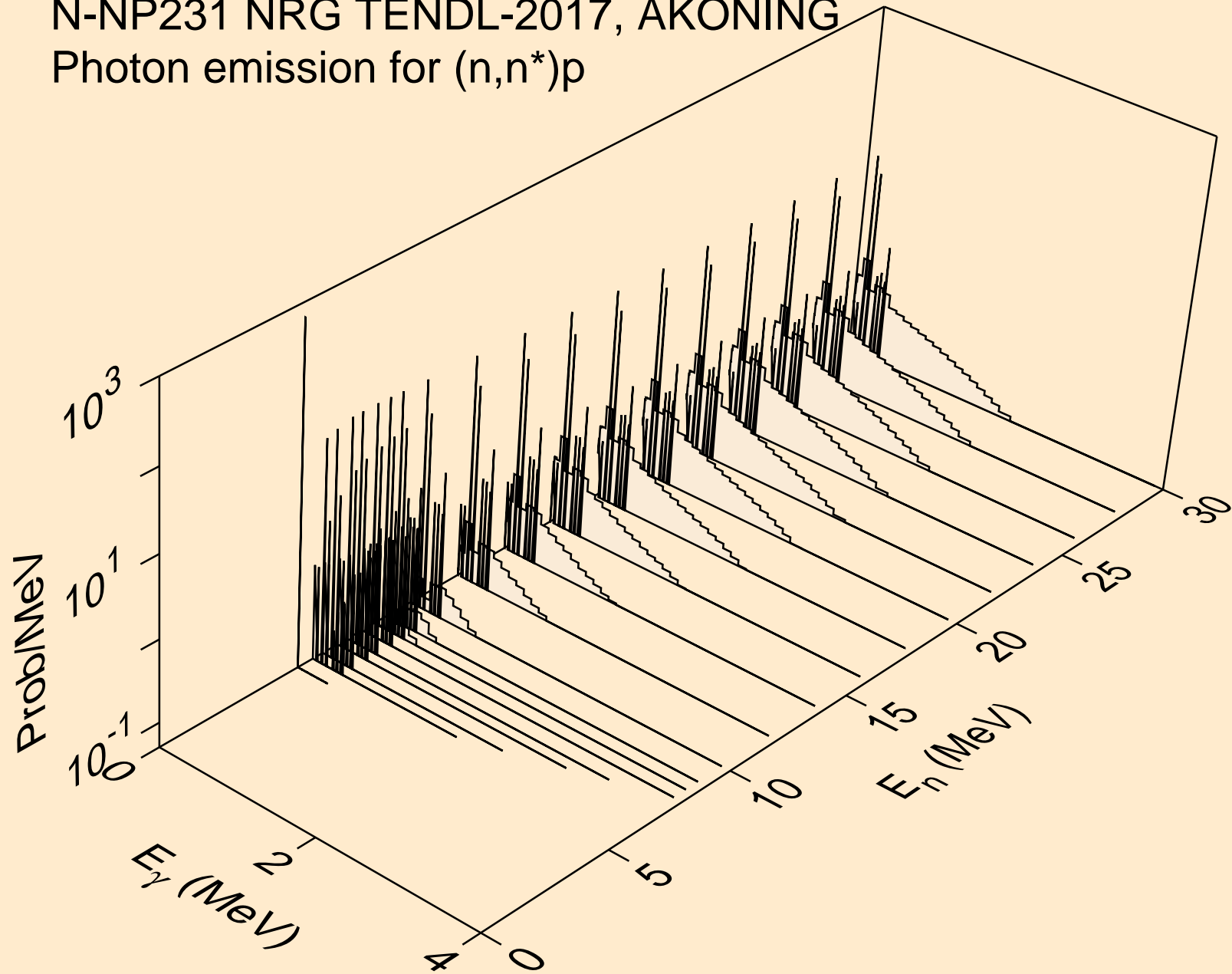
N-NP231 NRG TENDL-2017, AKONING  
Photon emission for (n,2n)a



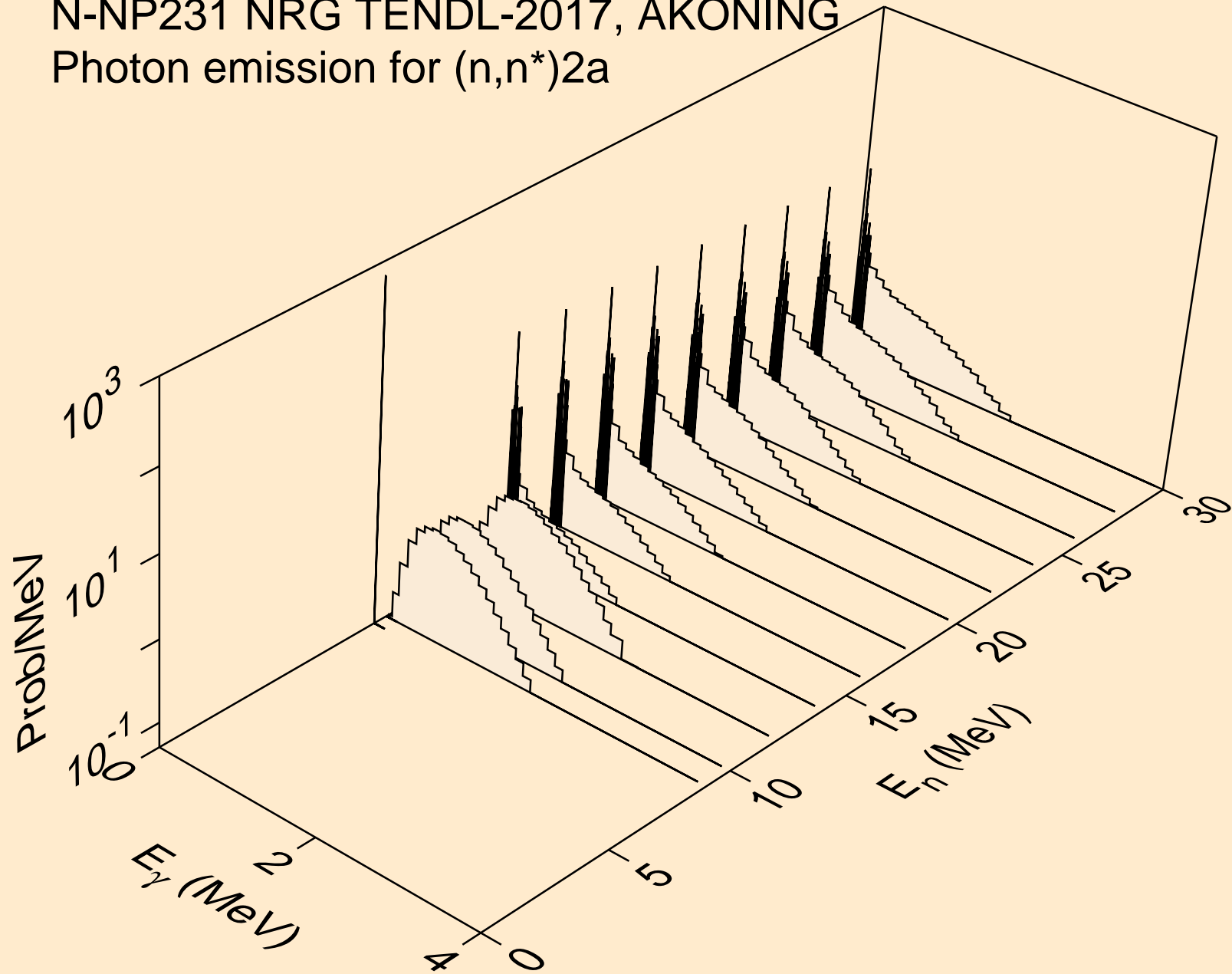
N-NP231 NRG TENDL-2017, AKONING  
Photon emission for (n,3n)a



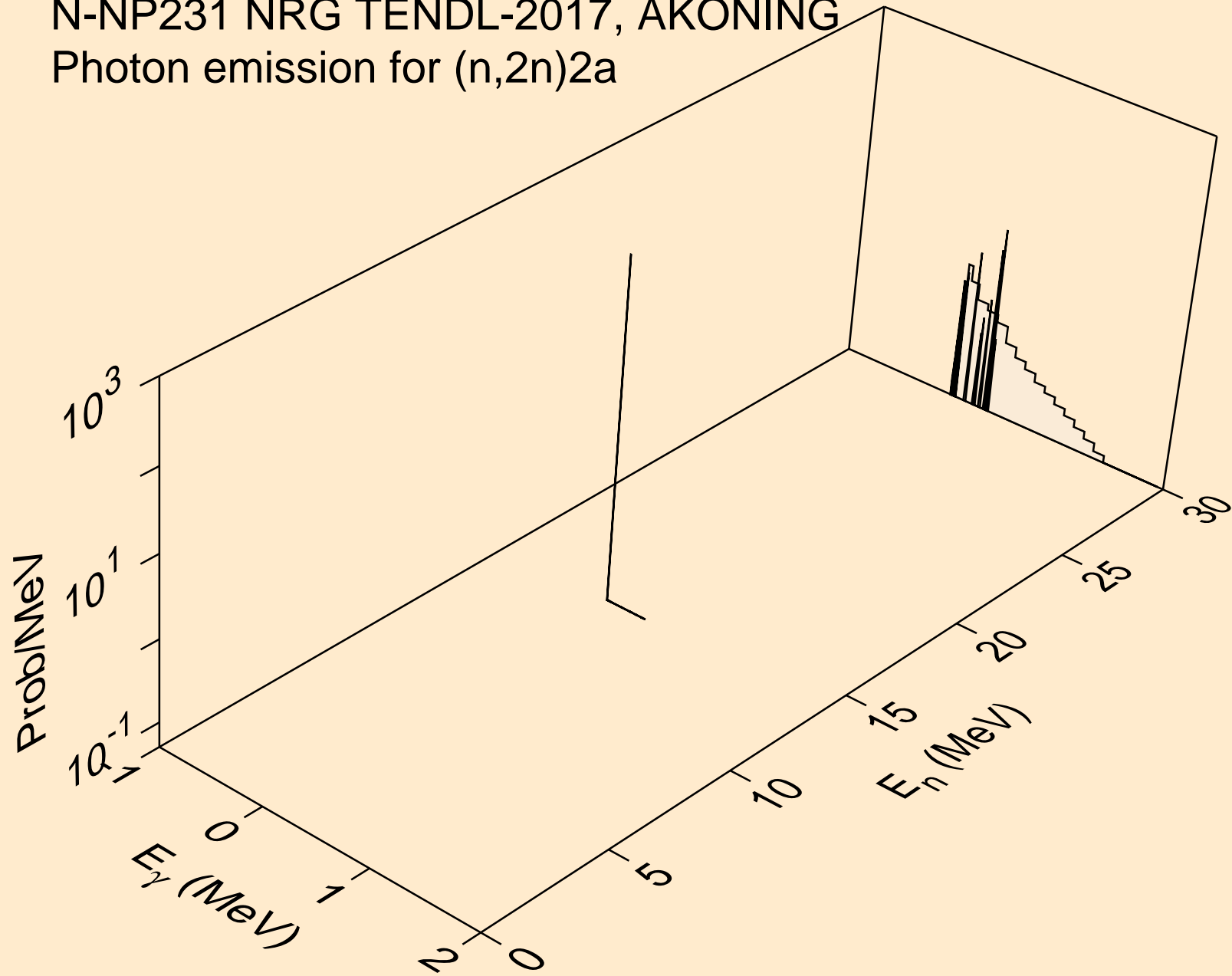
N-NP231 NRG TENDL-2017, AKONING  
Photon emission for (n,n\*)p



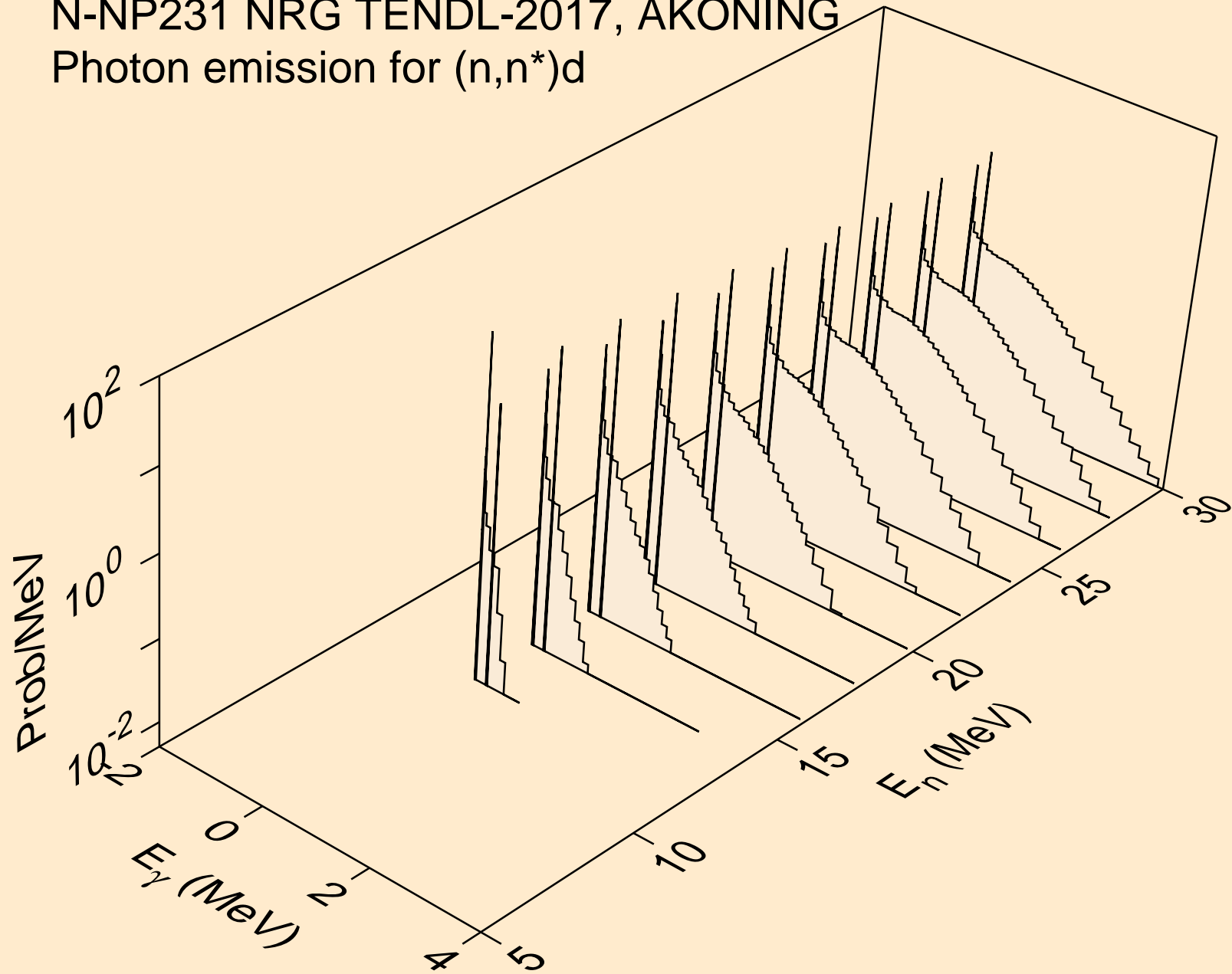
N-NP231 NRG TENDL-2017, AKONING  
Photon emission for (n,n\*)2a



N-NP231 NRG TENDL-2017, AKONING  
Photon emission for (n,2n)2a

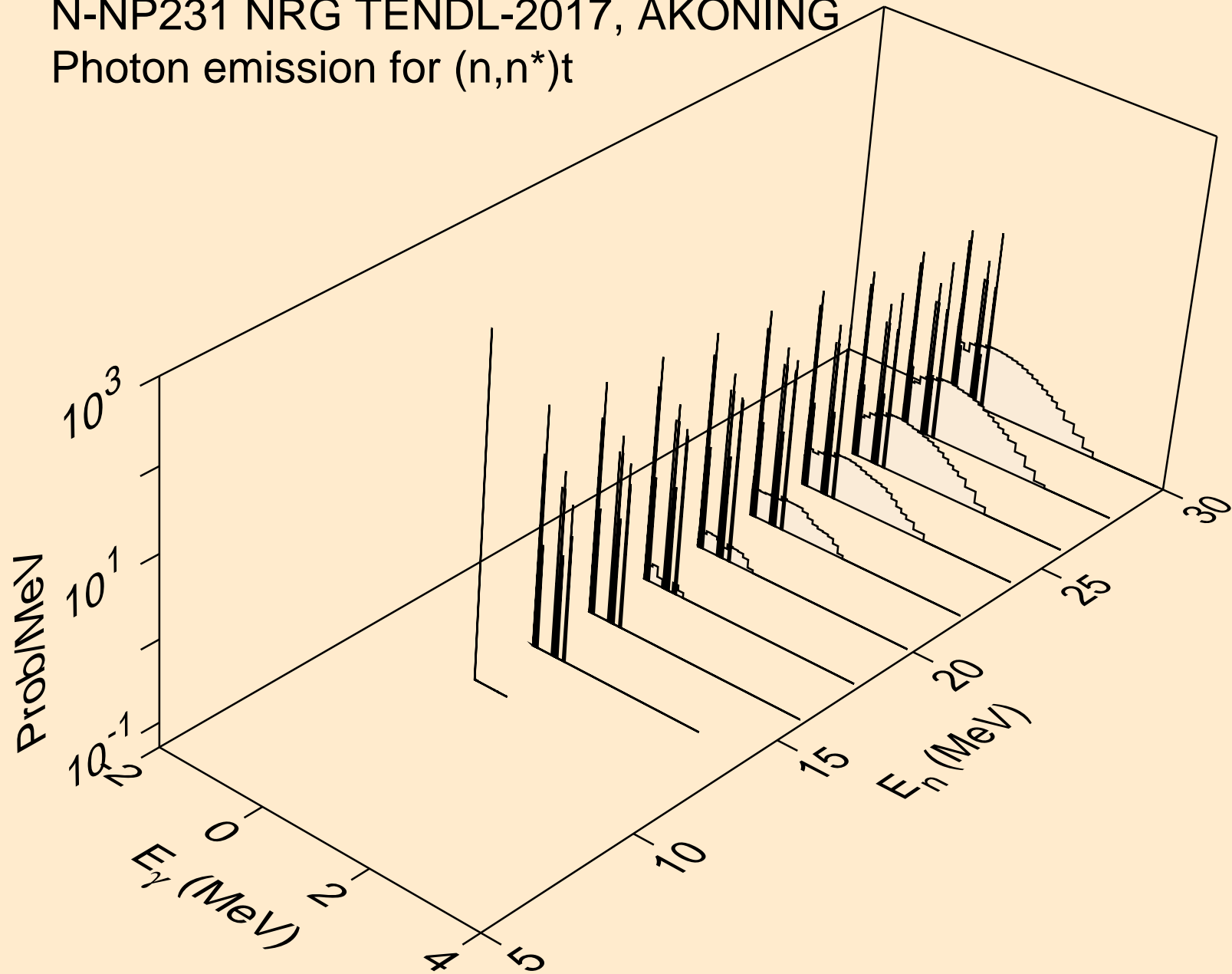


N-NP231 NRG TENDL-2017, AKONING  
Photon emission for (n,n\*)d

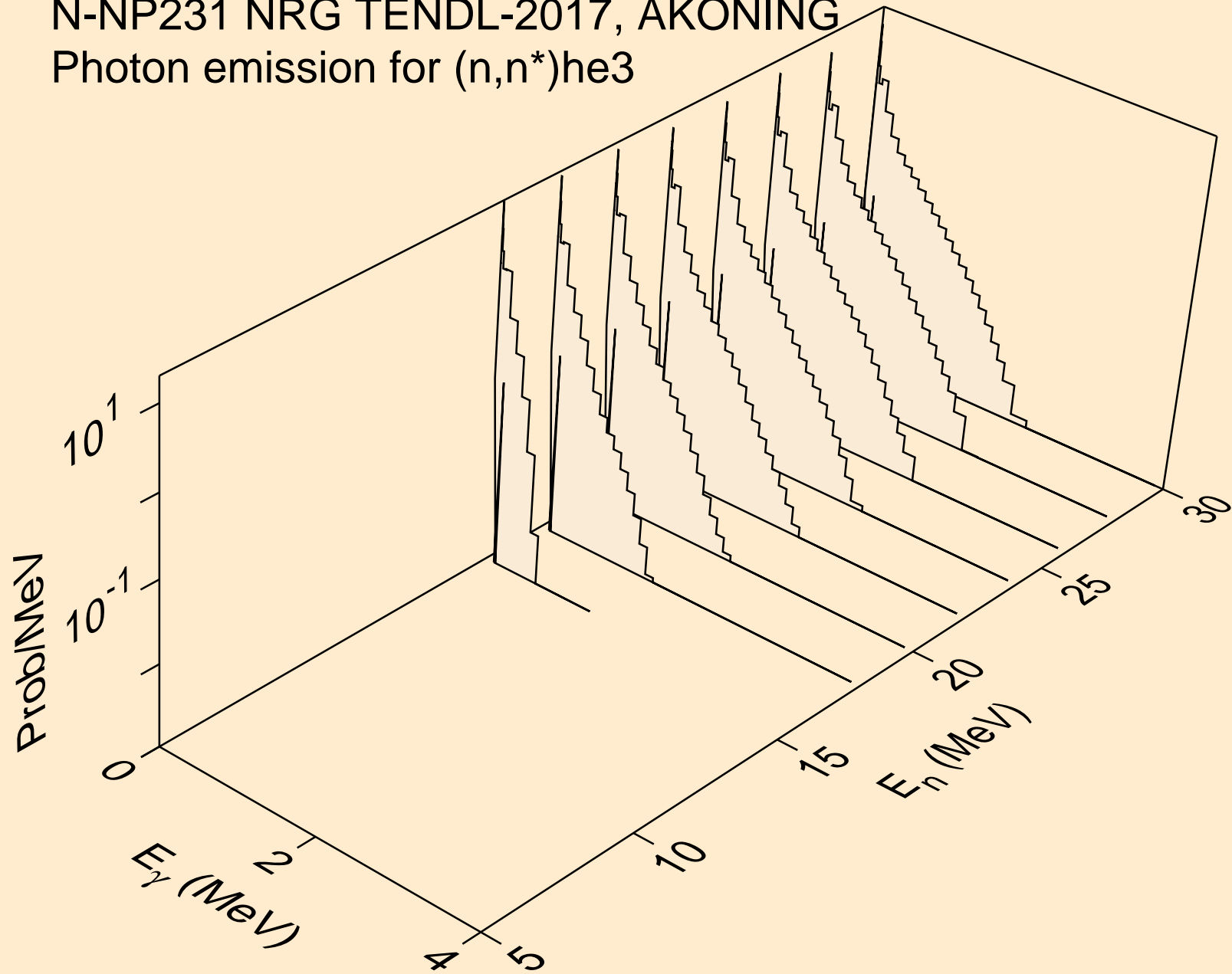




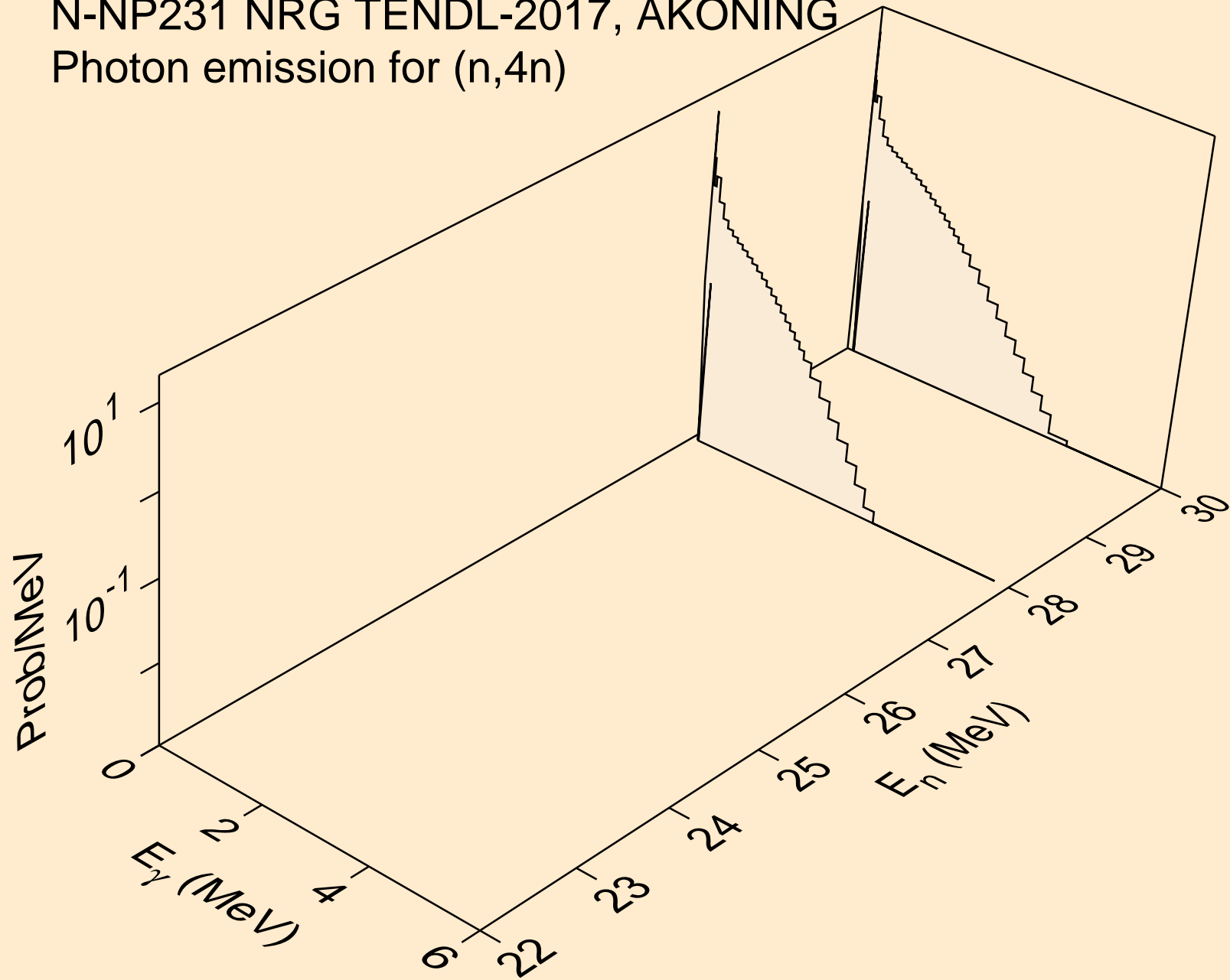
N-NP231 NRG TENDL-2017, AKONING  
Photon emission for (n,n\*)t



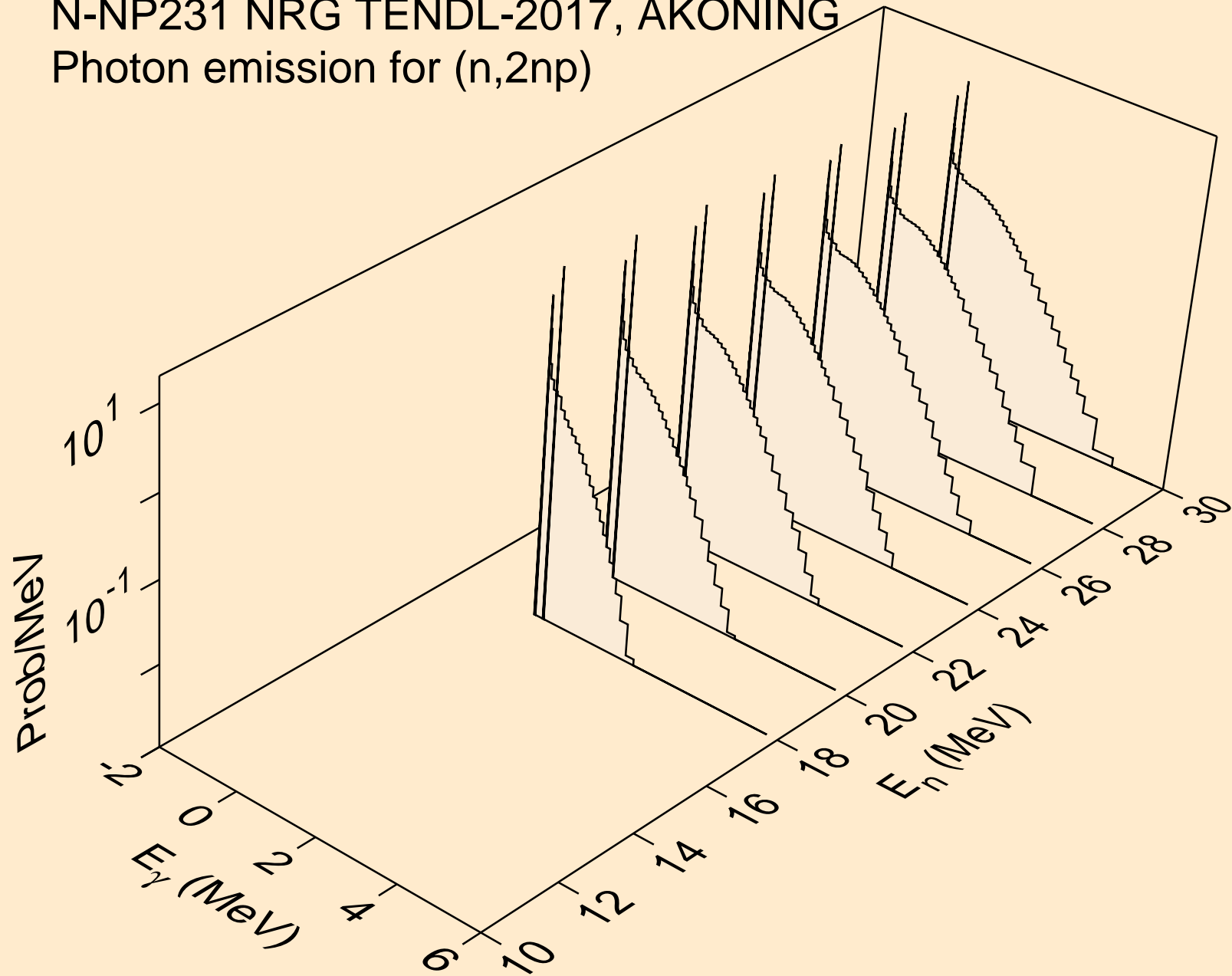
N-NP231 NRG TENDL-2017, AKONING  
Photon emission for (n,n\*)he3



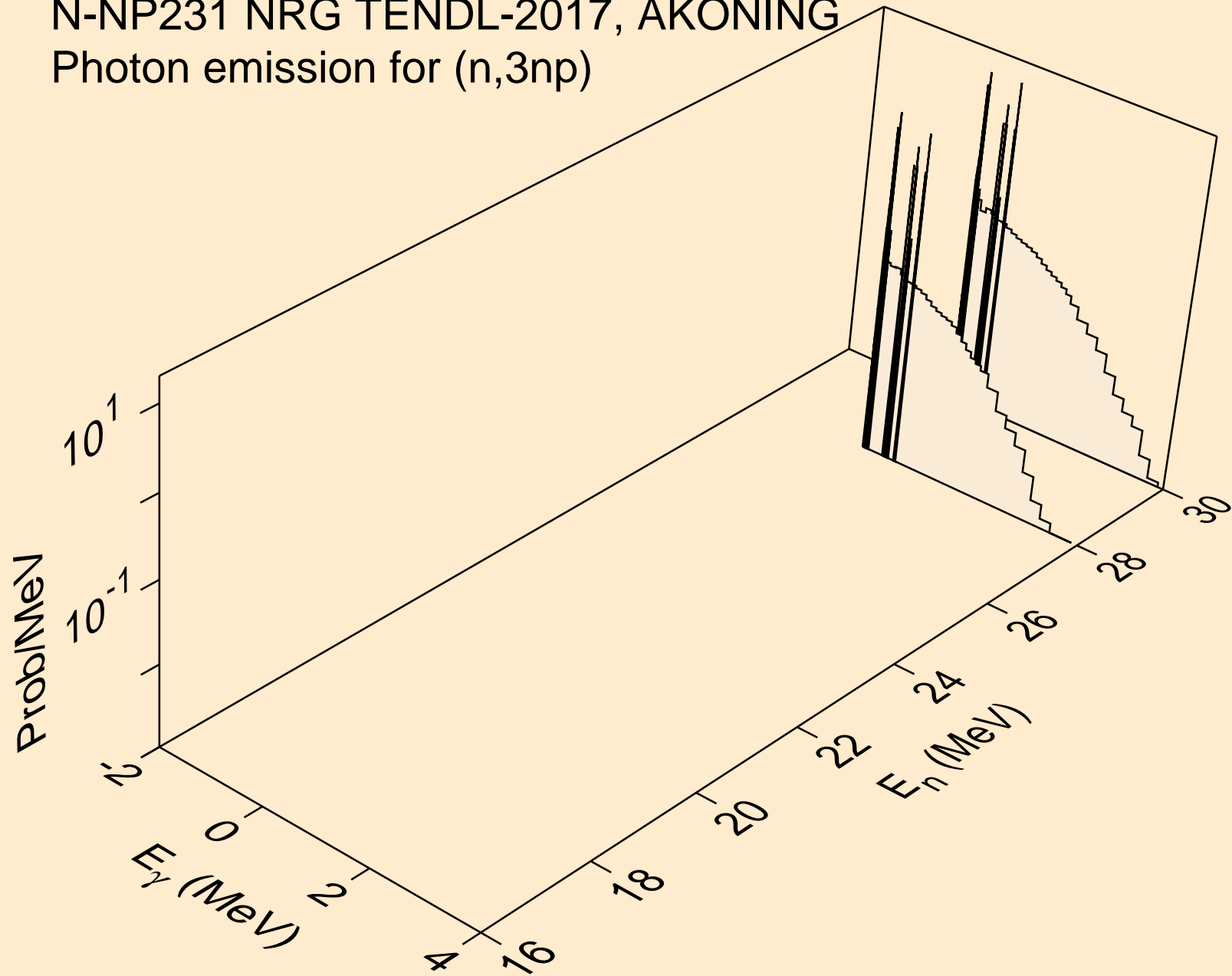
N-NP231 NRG TENDL-2017, AKONING  
Photon emission for (n,4n)



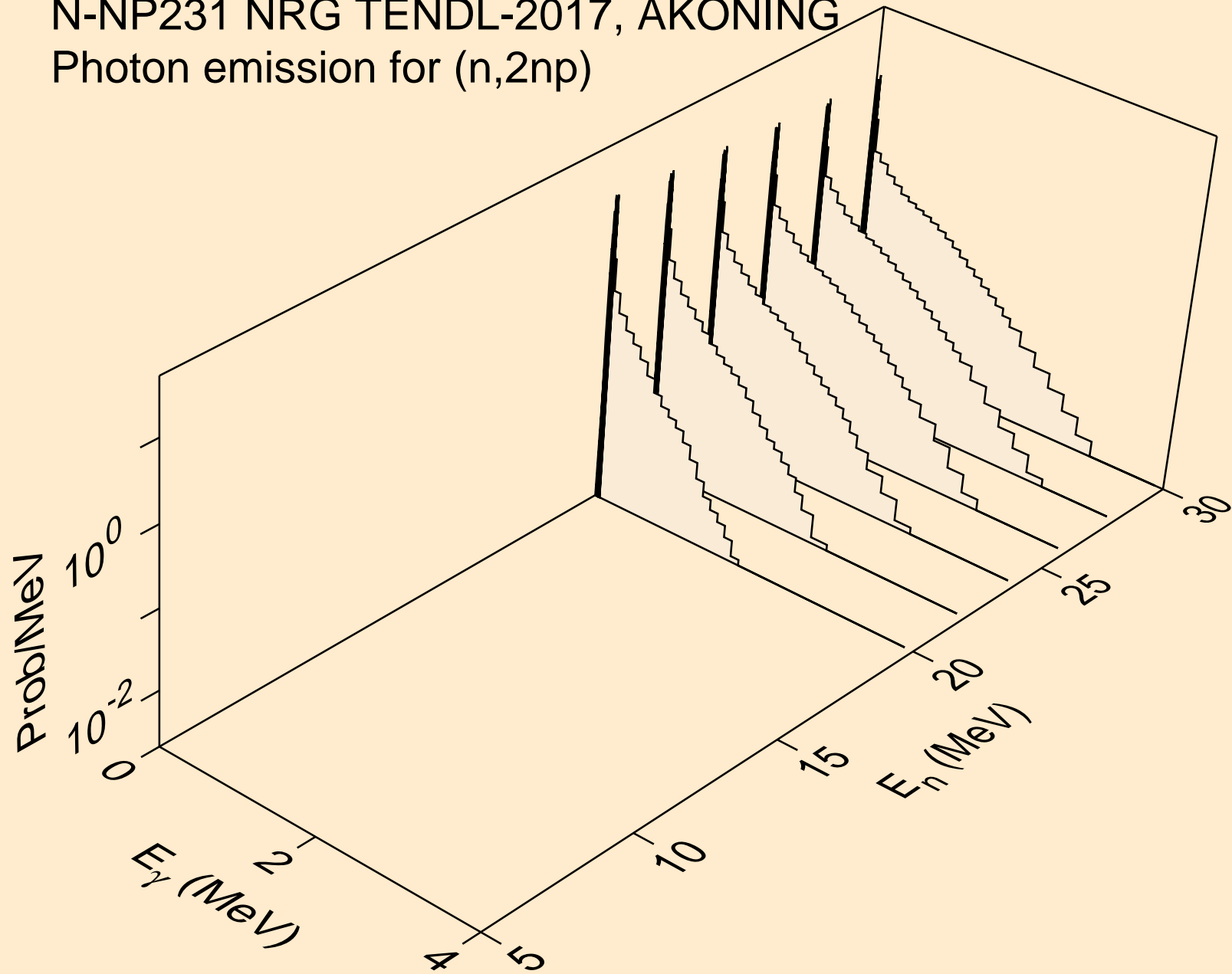
N-NP231 NRG TENDL-2017, AKONING  
Photon emission for (n,2np)



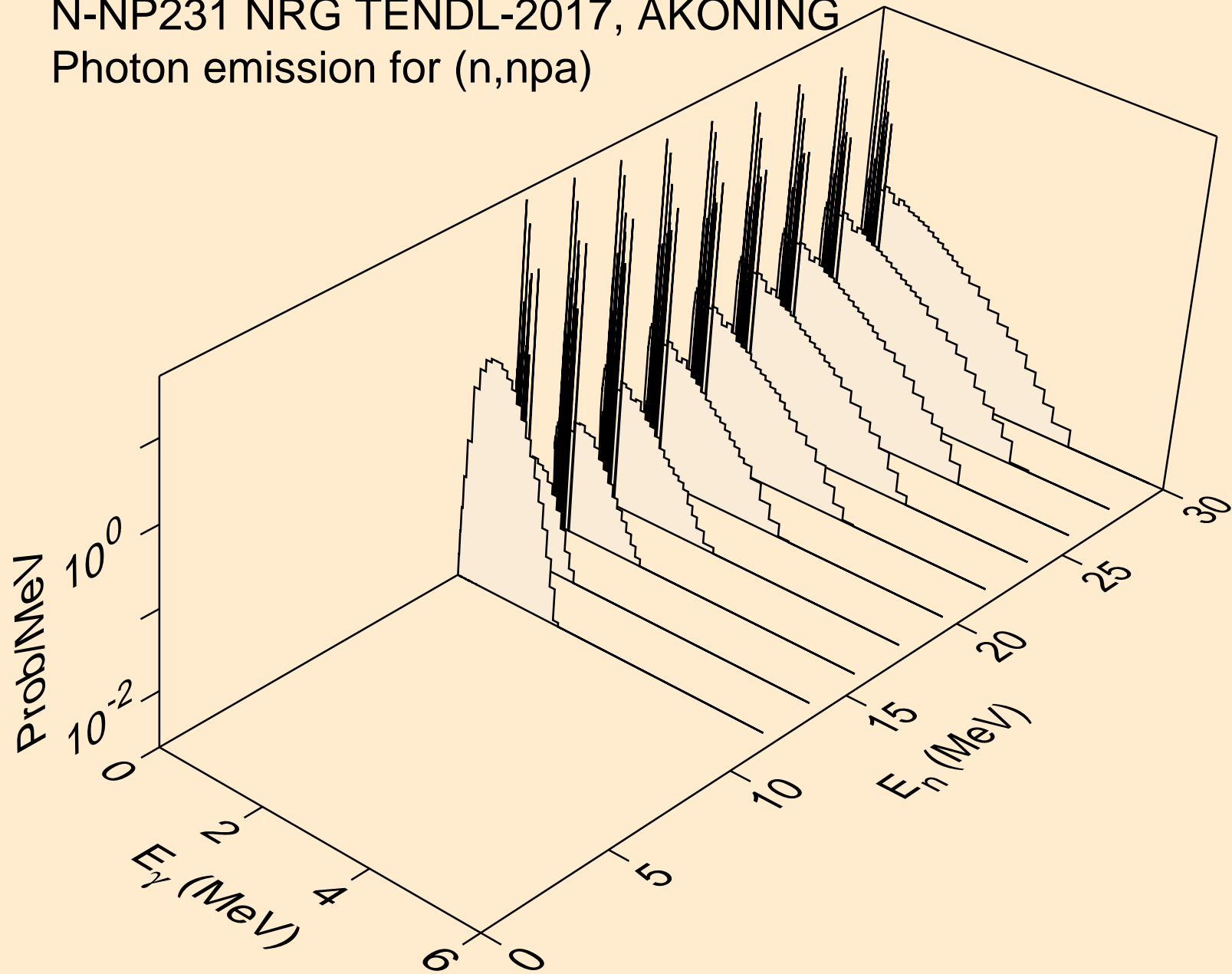
N-NP231 NRG TENDL-2017, AKONING  
Photon emission for (n,3np)



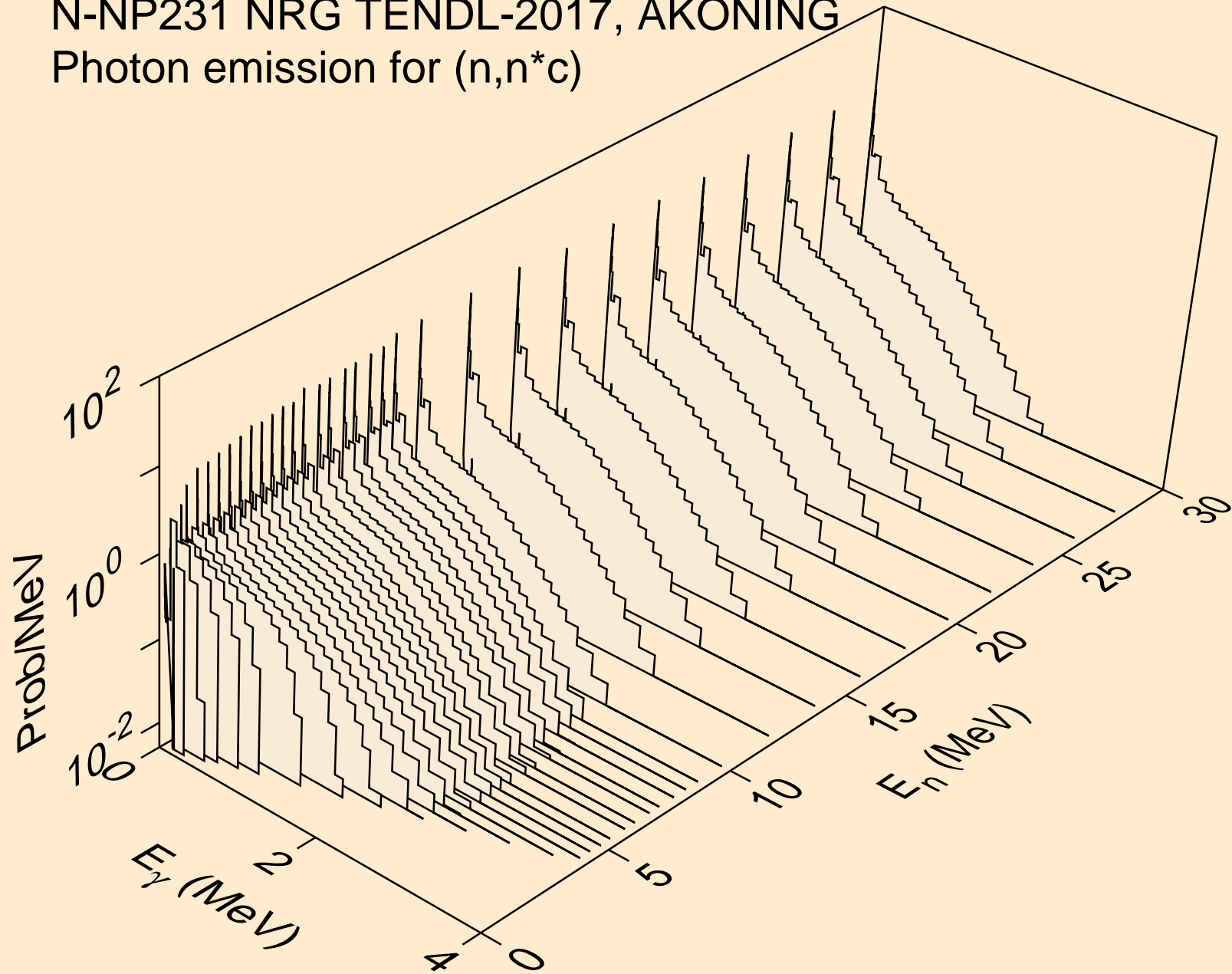
N-NP231 NRG TENDL-2017, AKONING  
Photon emission for (n,2np)



N-NP231 NRG TENDL-2017, AKONING  
Photon emission for (n,npa)

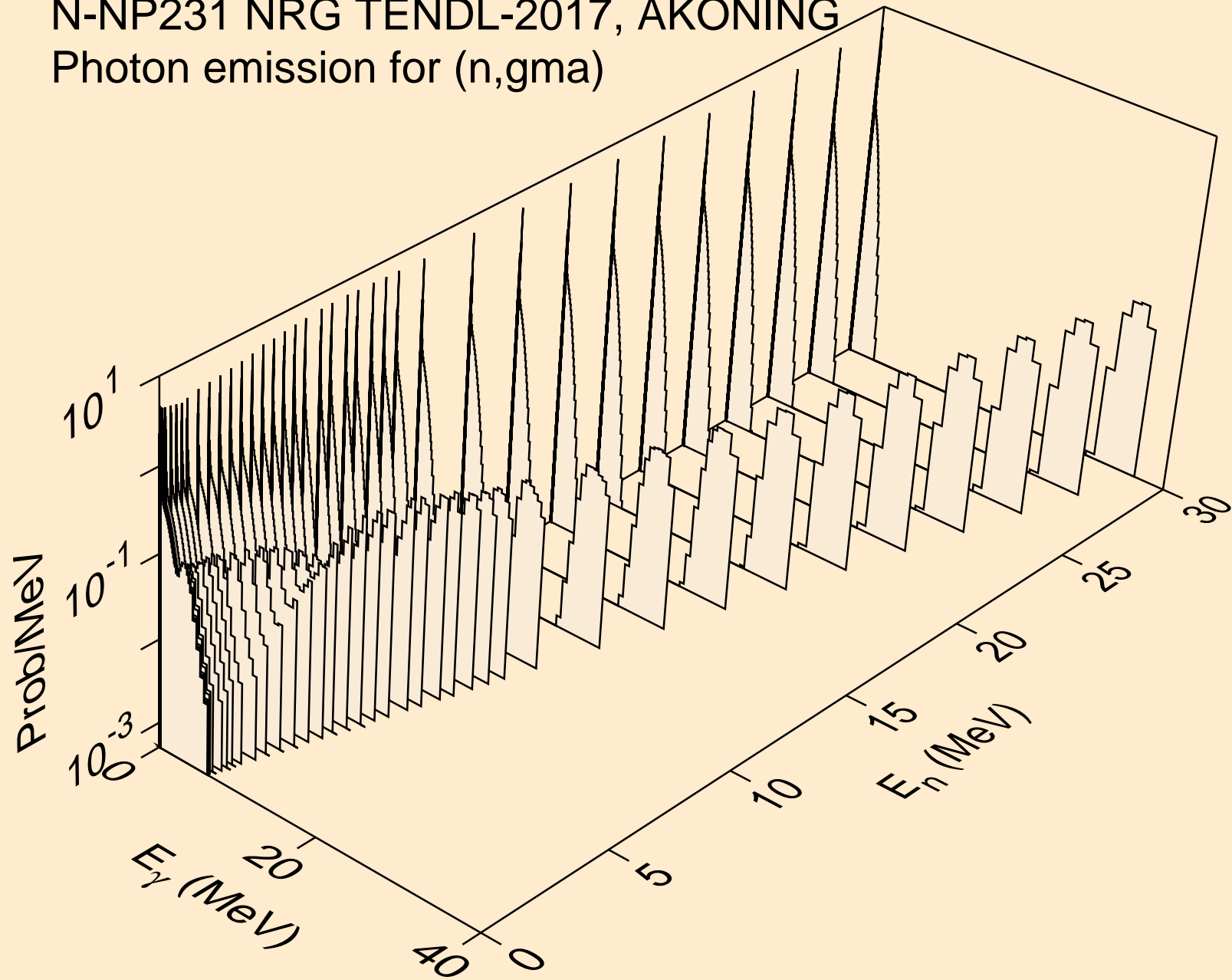


N-NP231 NRG TENDL-2017, AKONING  
Photon emission for (n,n\*c)

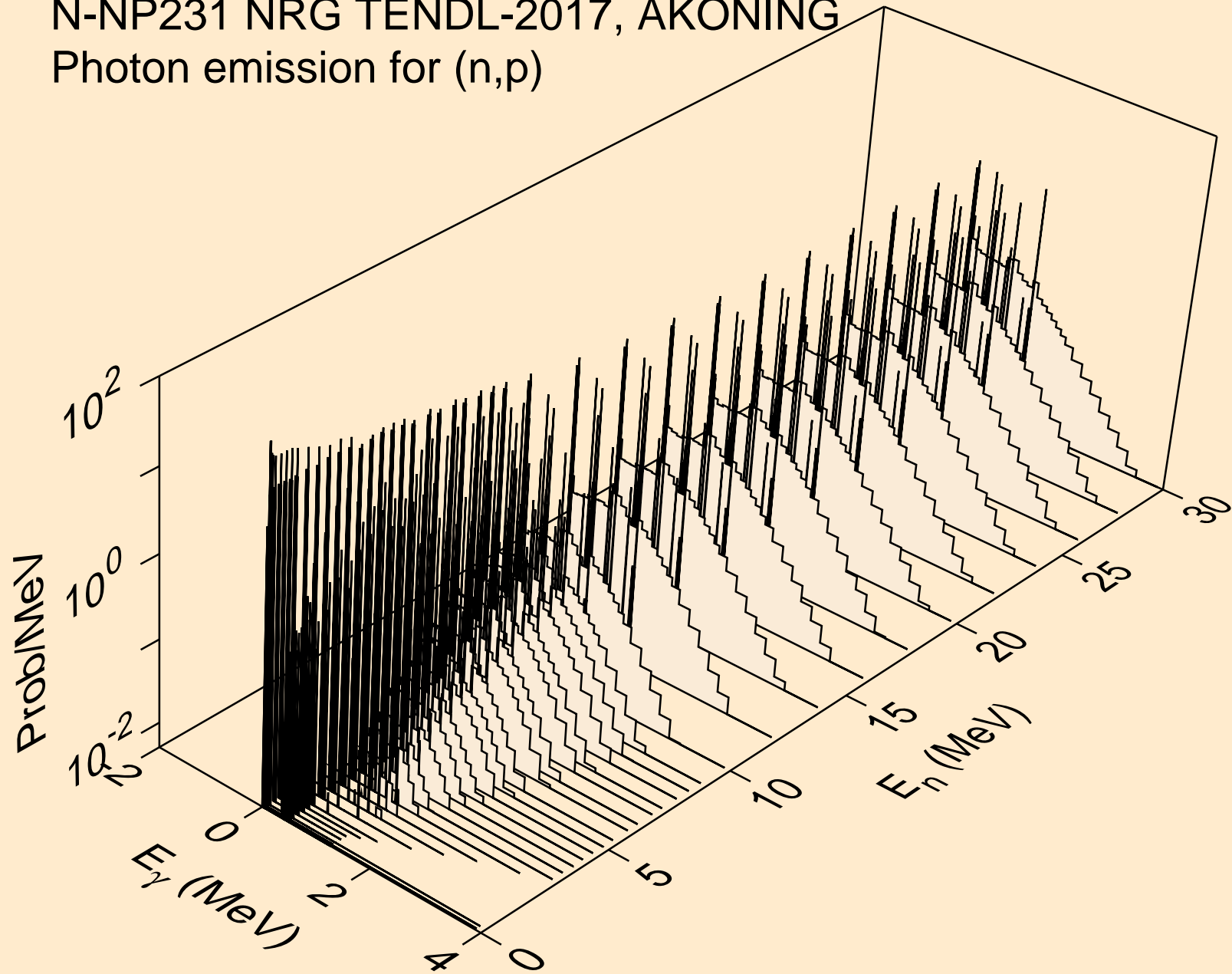




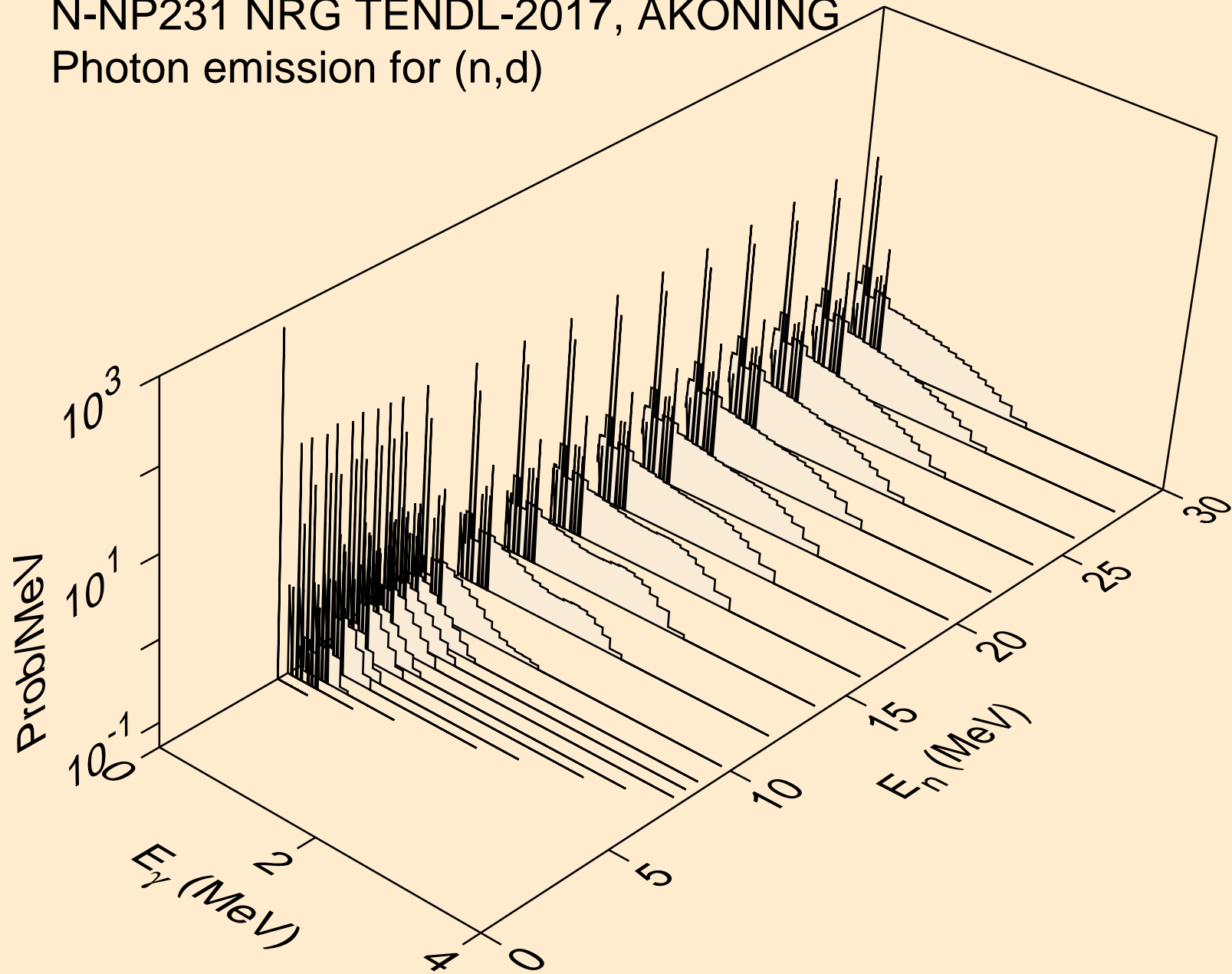
N-NP231 NRG TENDL-2017, AKONING  
Photon emission for (n,gma)



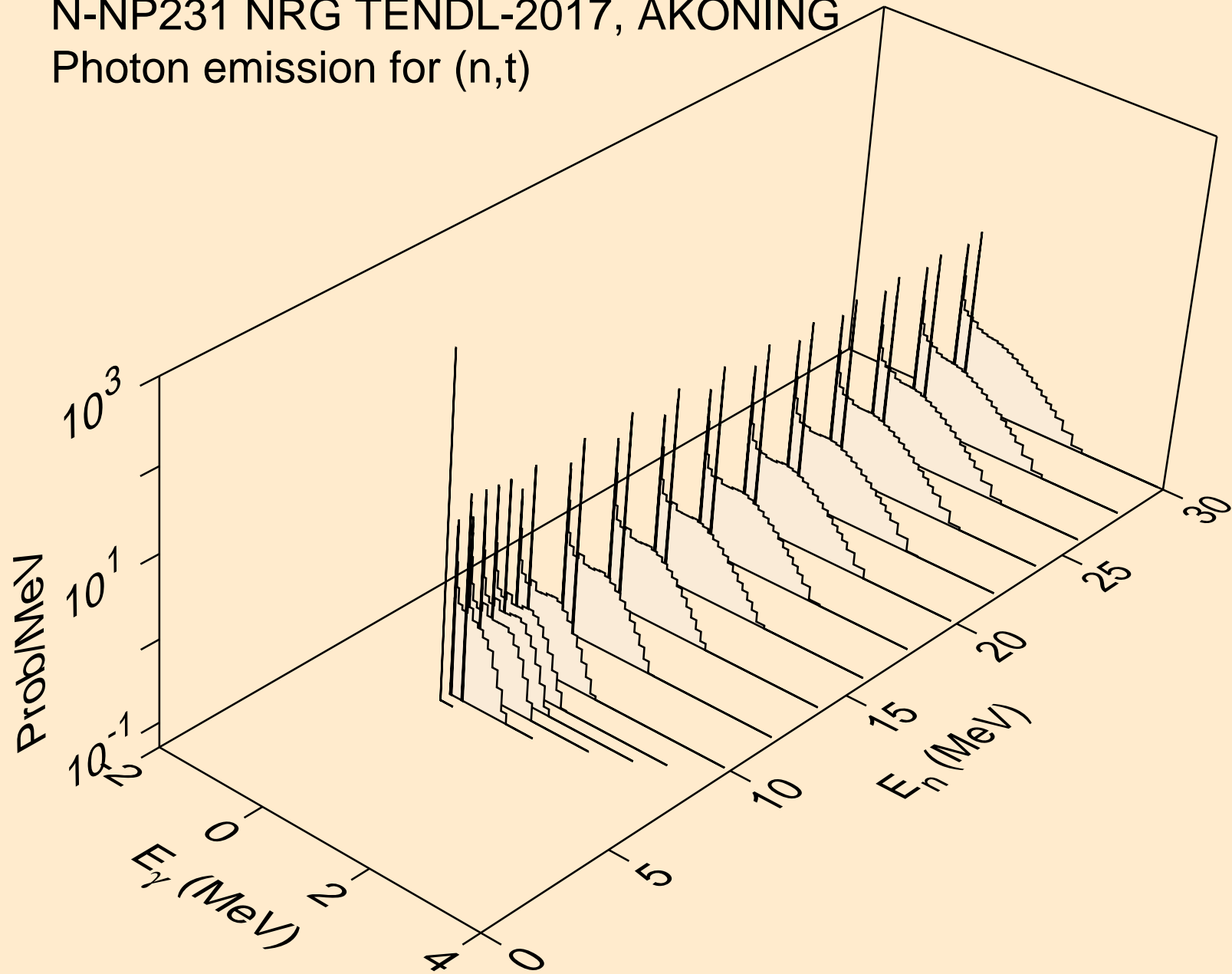
N-NP231 NRG TENDL-2017, AKONING  
Photon emission for (n,p)



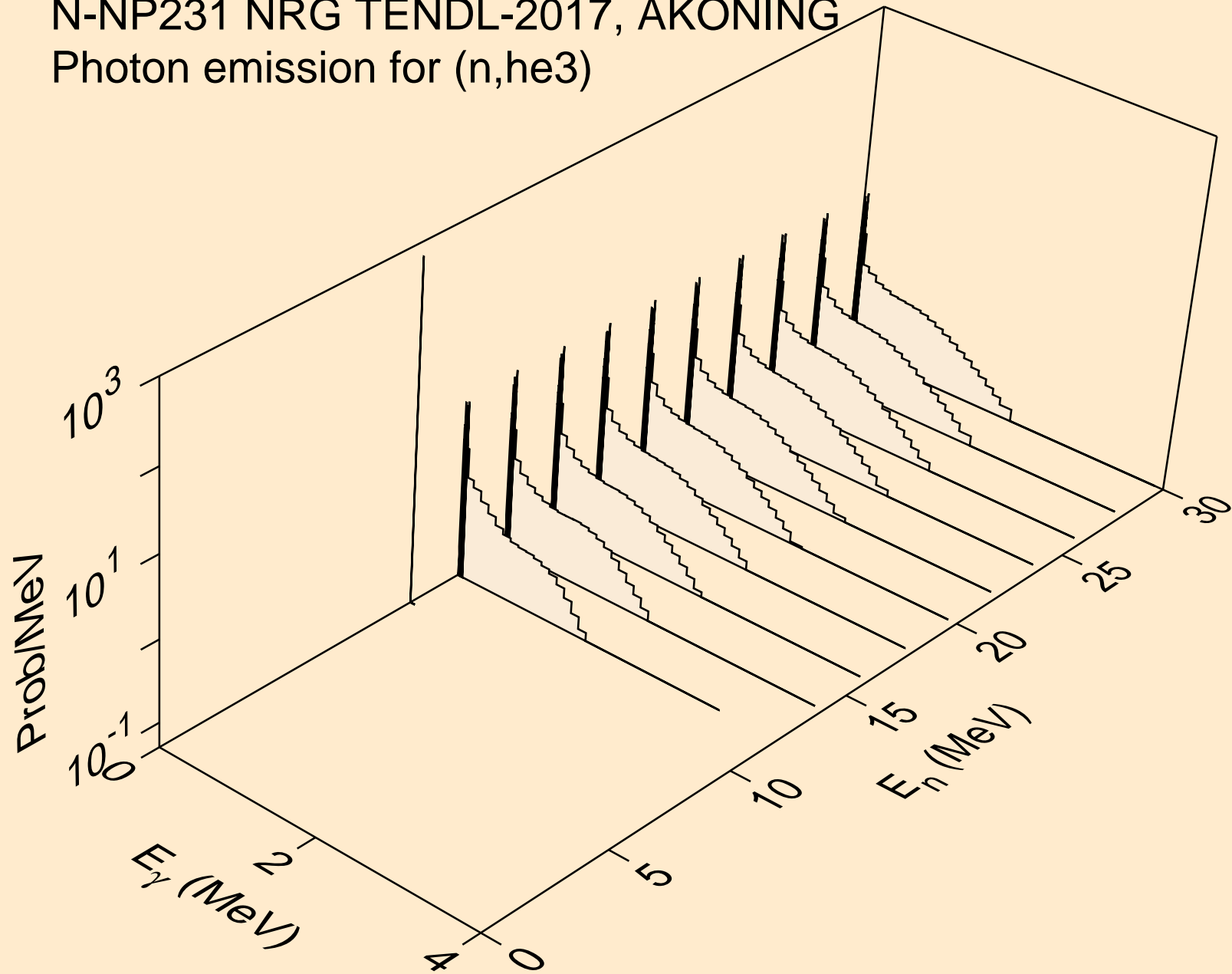
N-NP231 NRG TENDL-2017, AKONING  
Photon emission for (n,d)



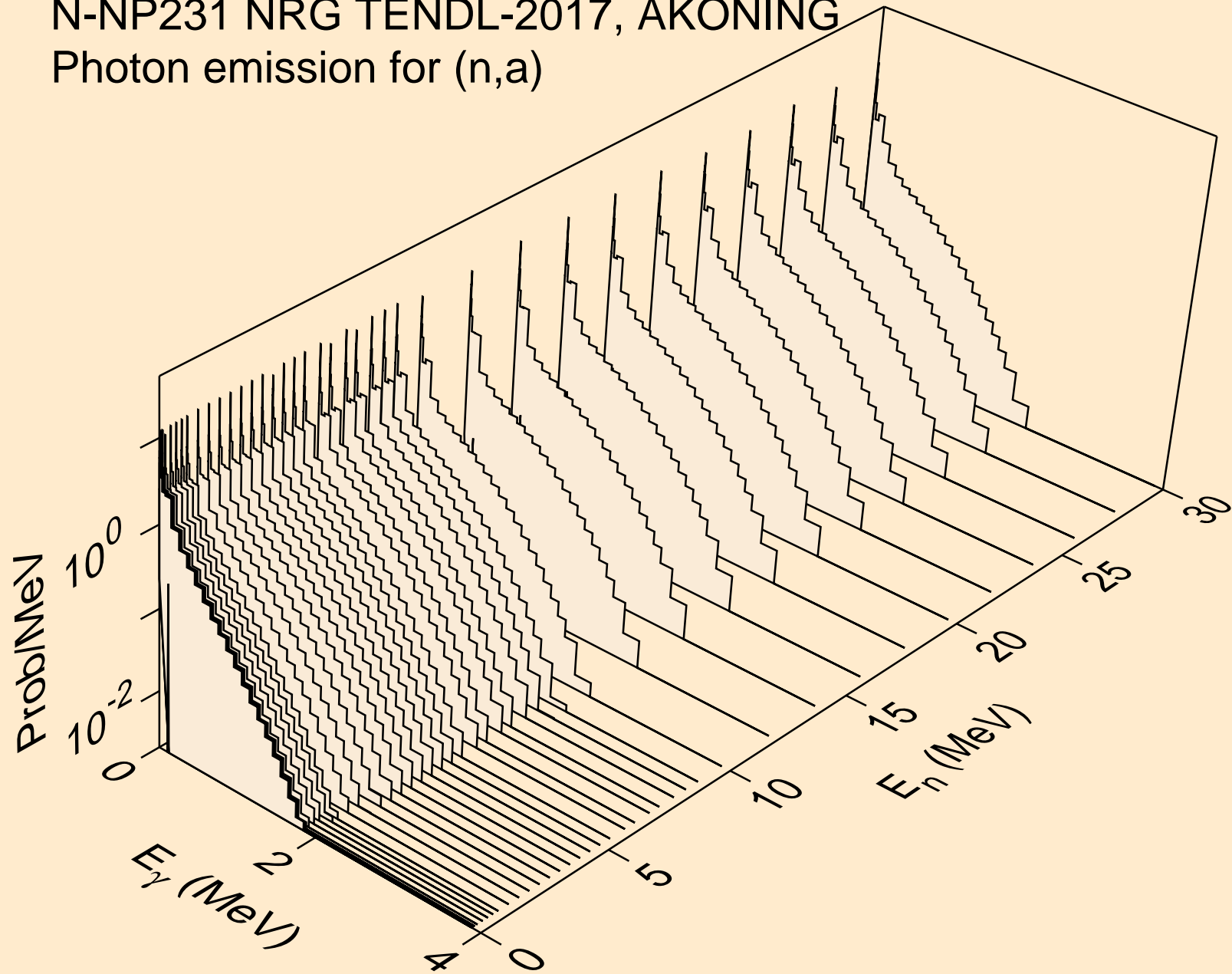
N-NP231 NRG TENDL-2017, AKONING  
Photon emission for (n,t)



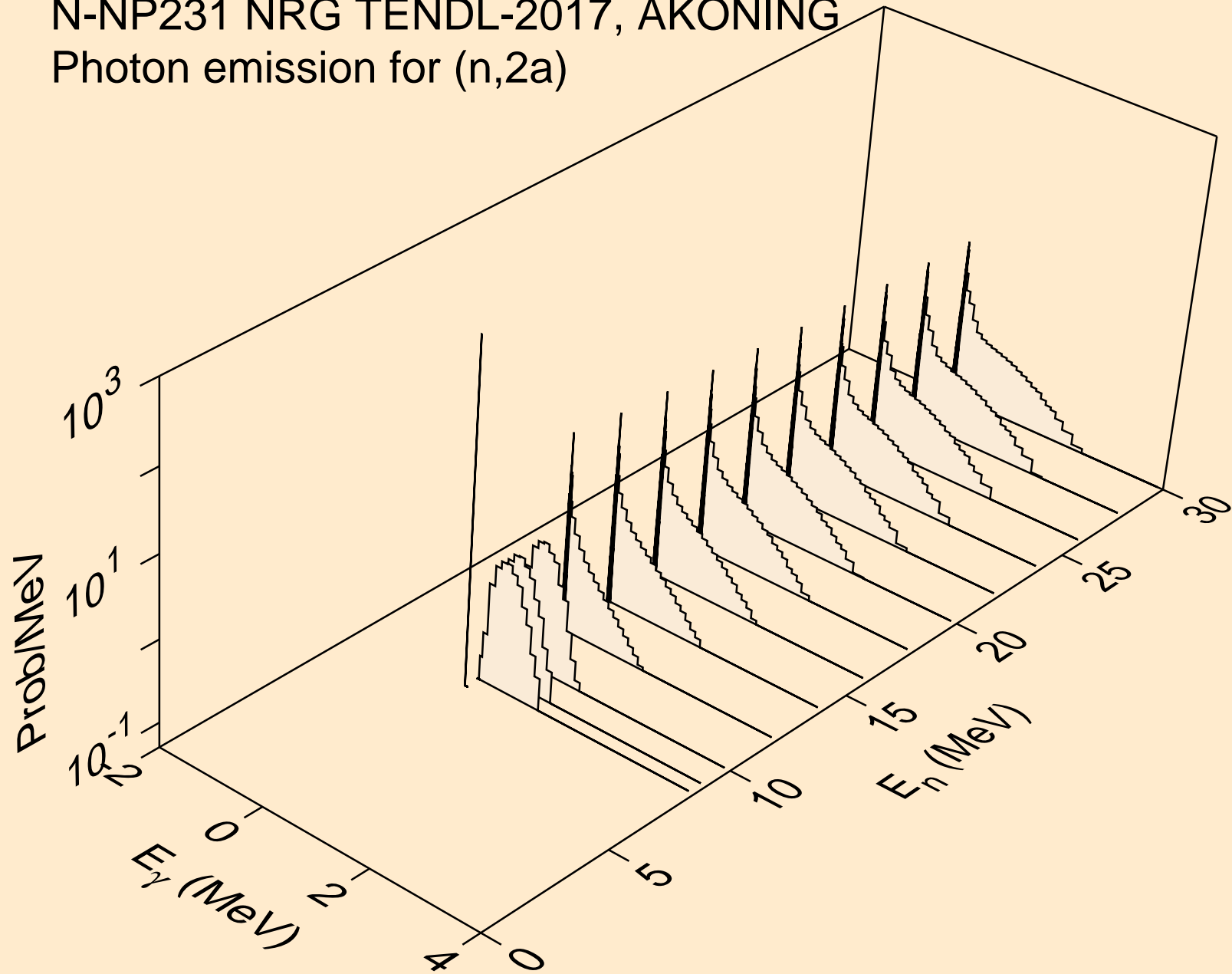
N-NP231 NRG TENDL-2017, AKONING  
Photon emission for (n,he3)



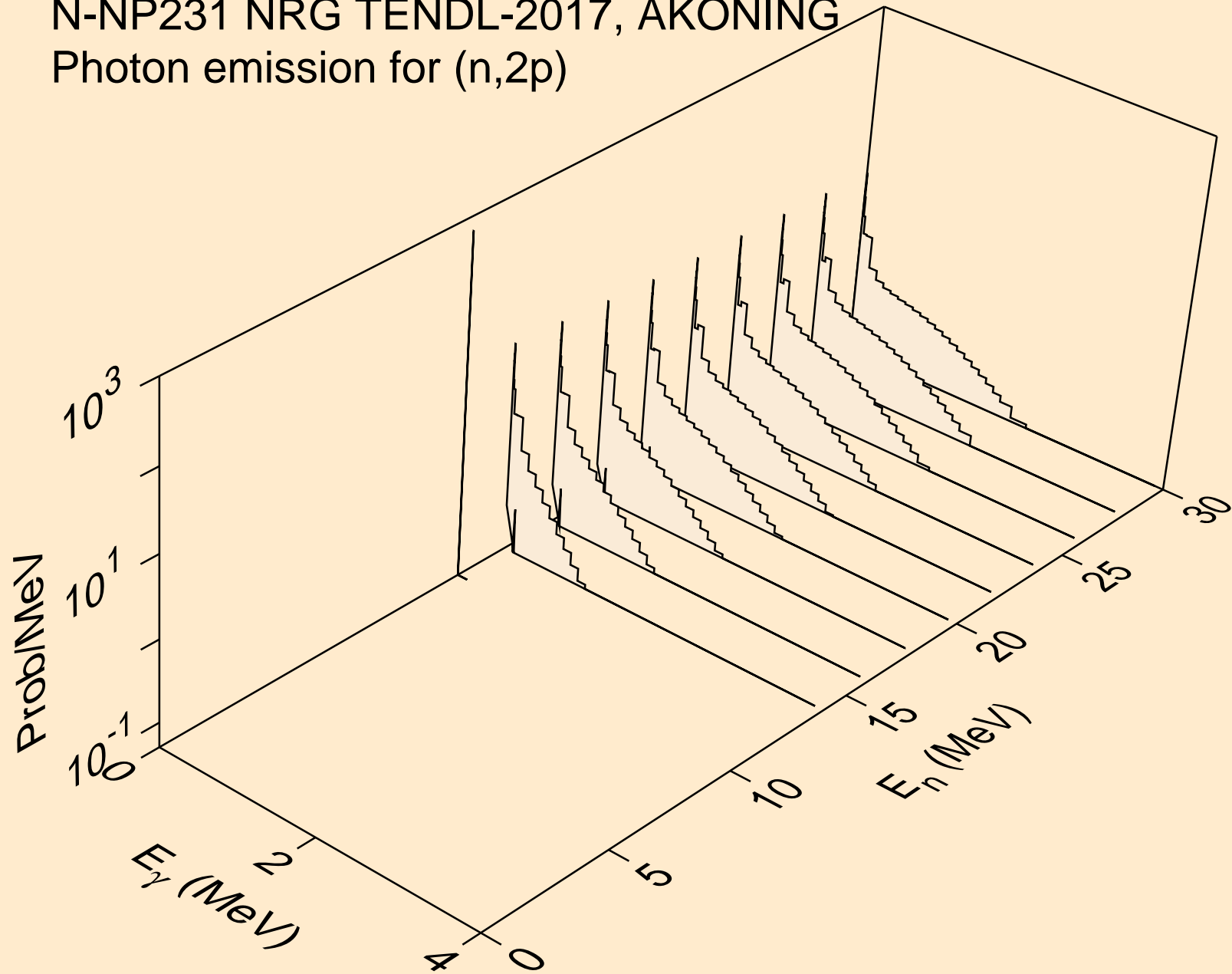
N-NP231 NRG TENDL-2017, AKONING  
Photon emission for (n,a)



N-NP231 NRG TENDL-2017, AKONING  
Photon emission for (n,2a)

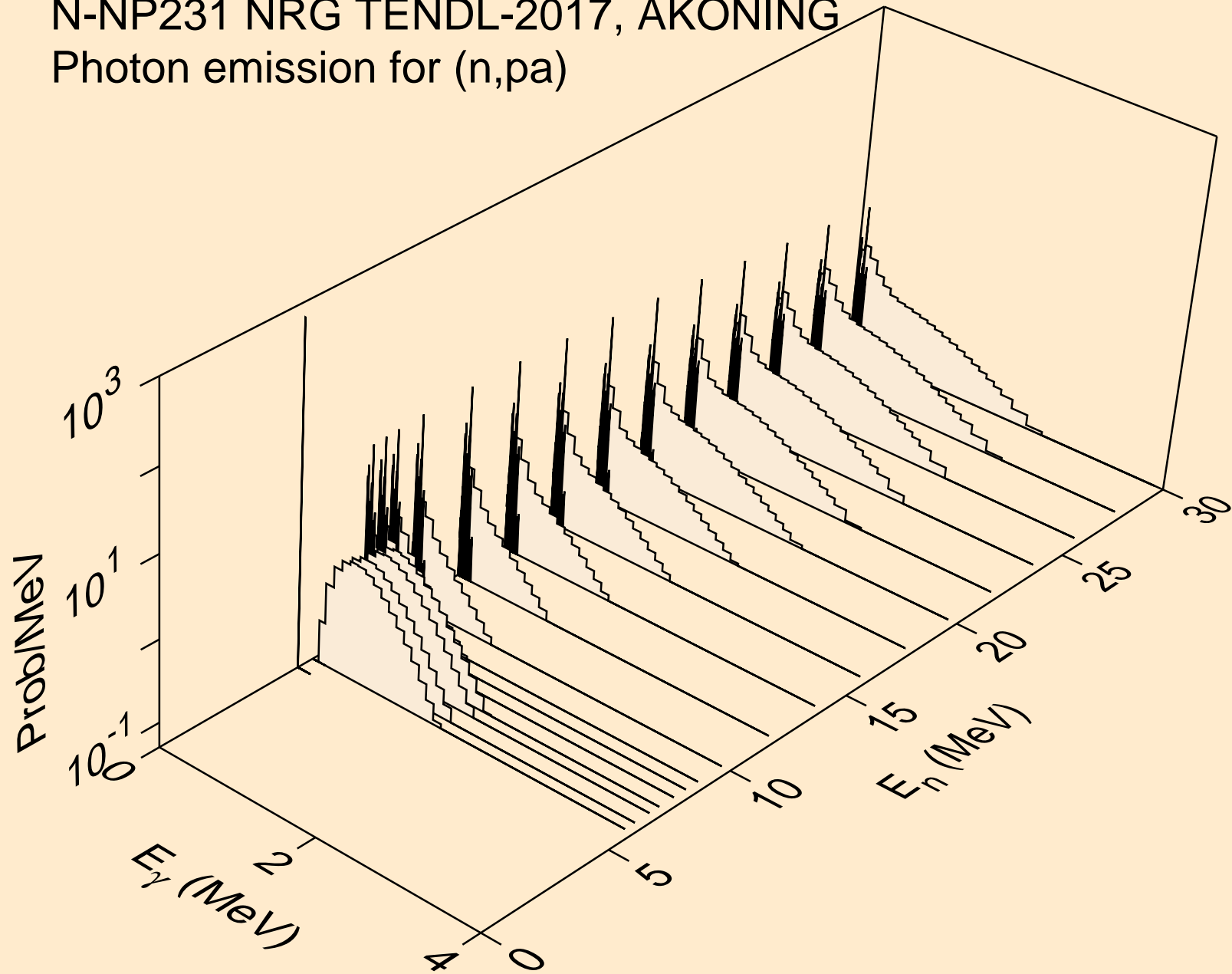


N-NP231 NRG TENDL-2017, AKONING  
Photon emission for (n,2p)

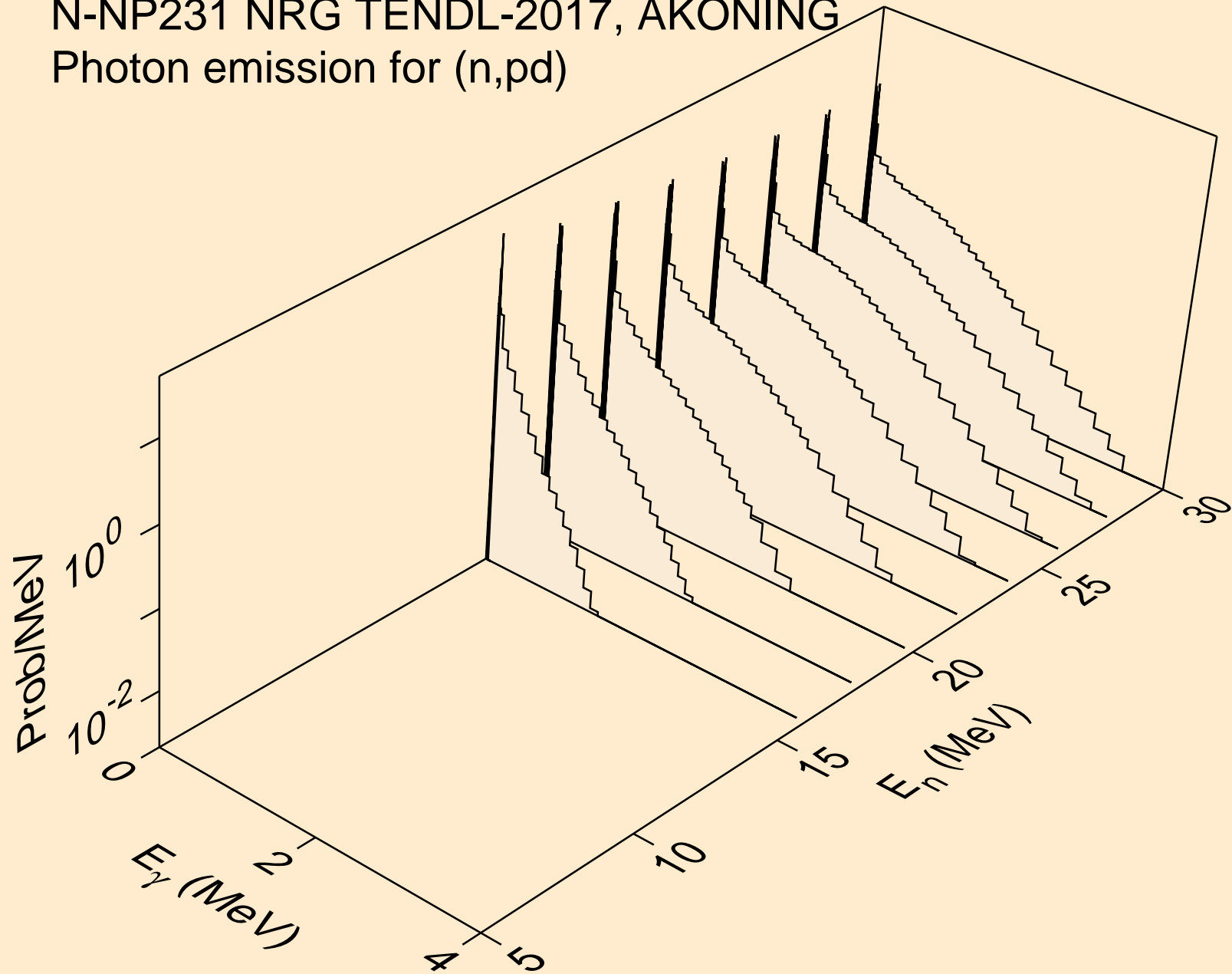




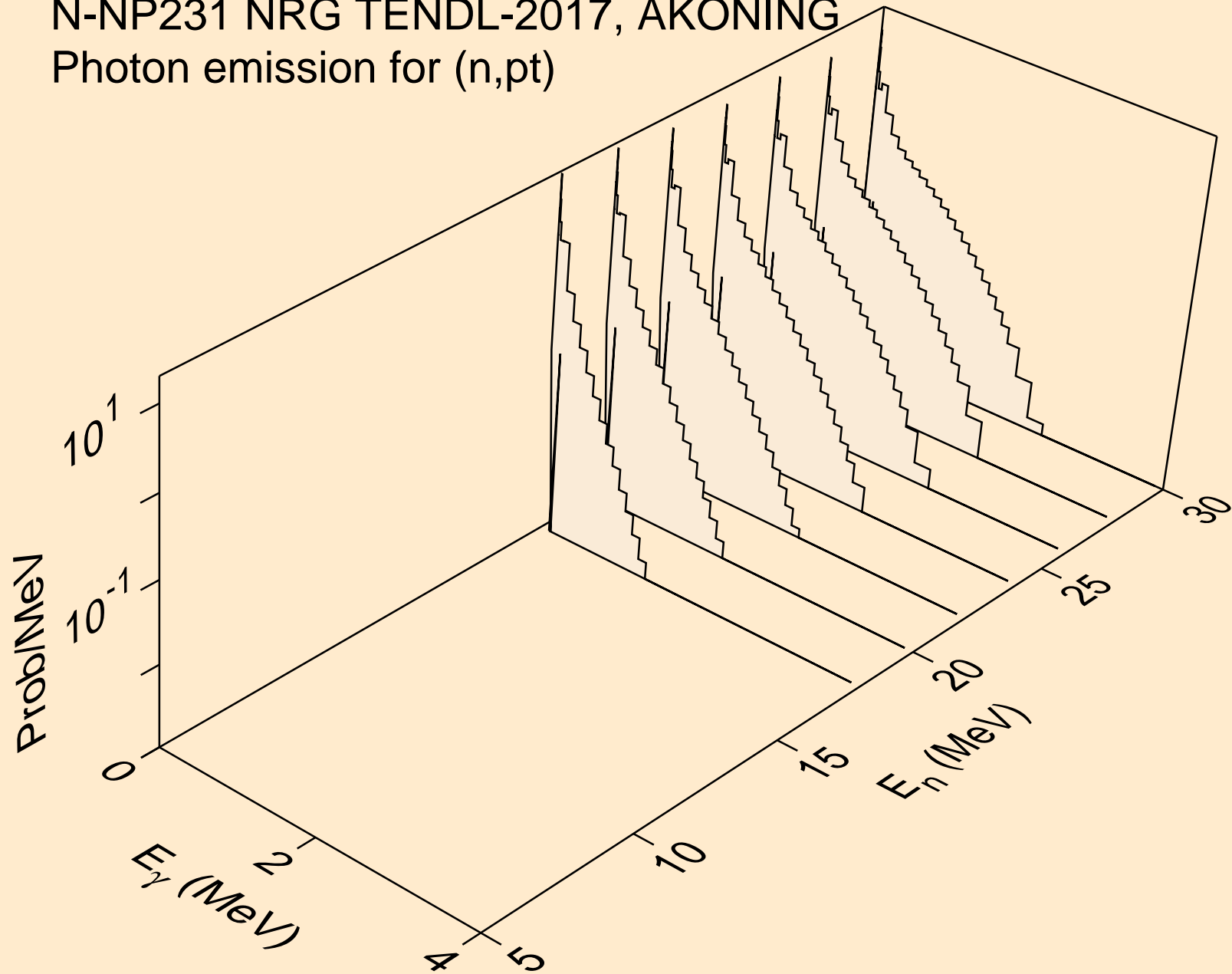
N-NP231 NRG TENDL-2017, AKONING  
Photon emission for (n,pa)



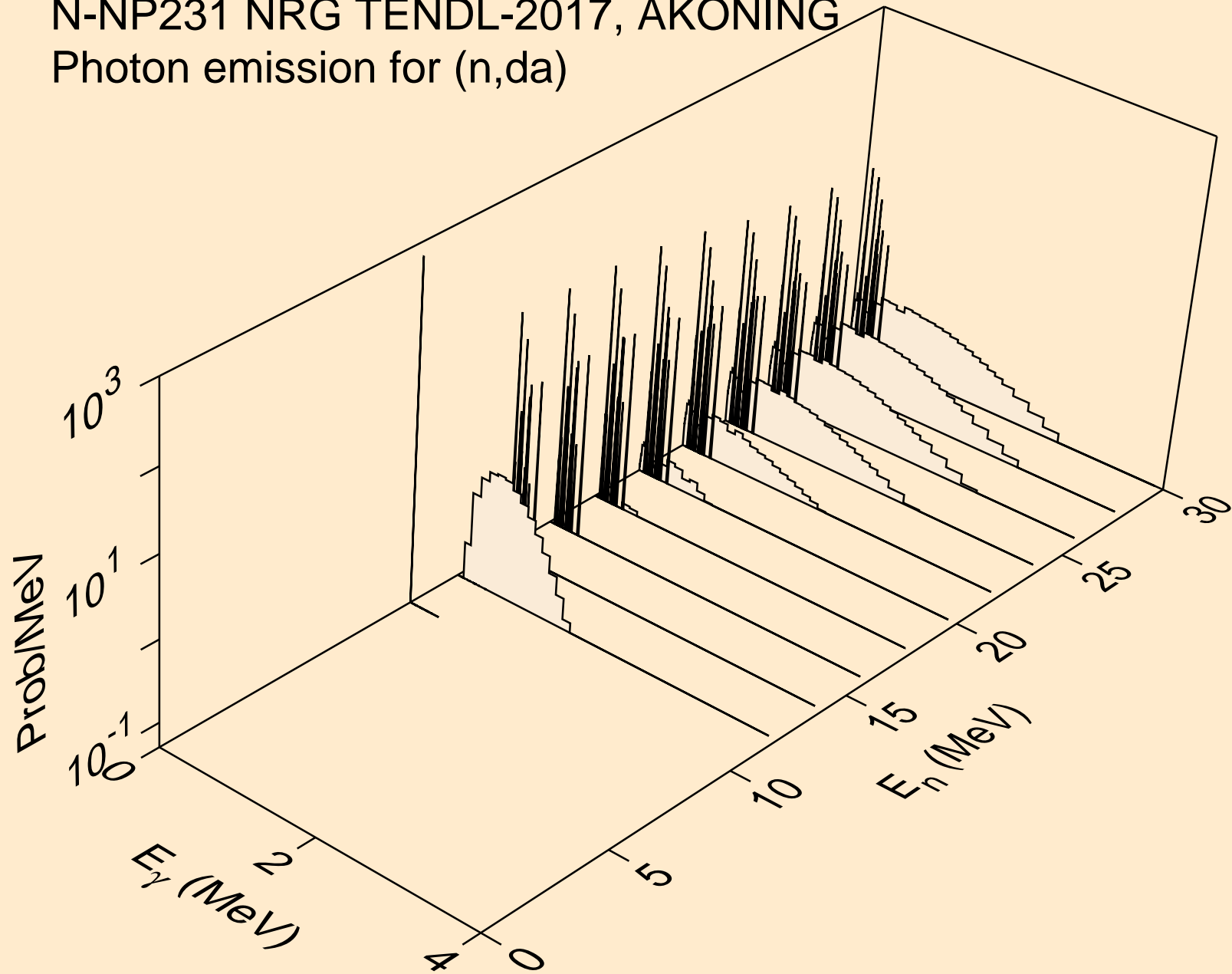
N-NP231 NRG TENDL-2017, AKONING  
Photon emission for (n,pd)



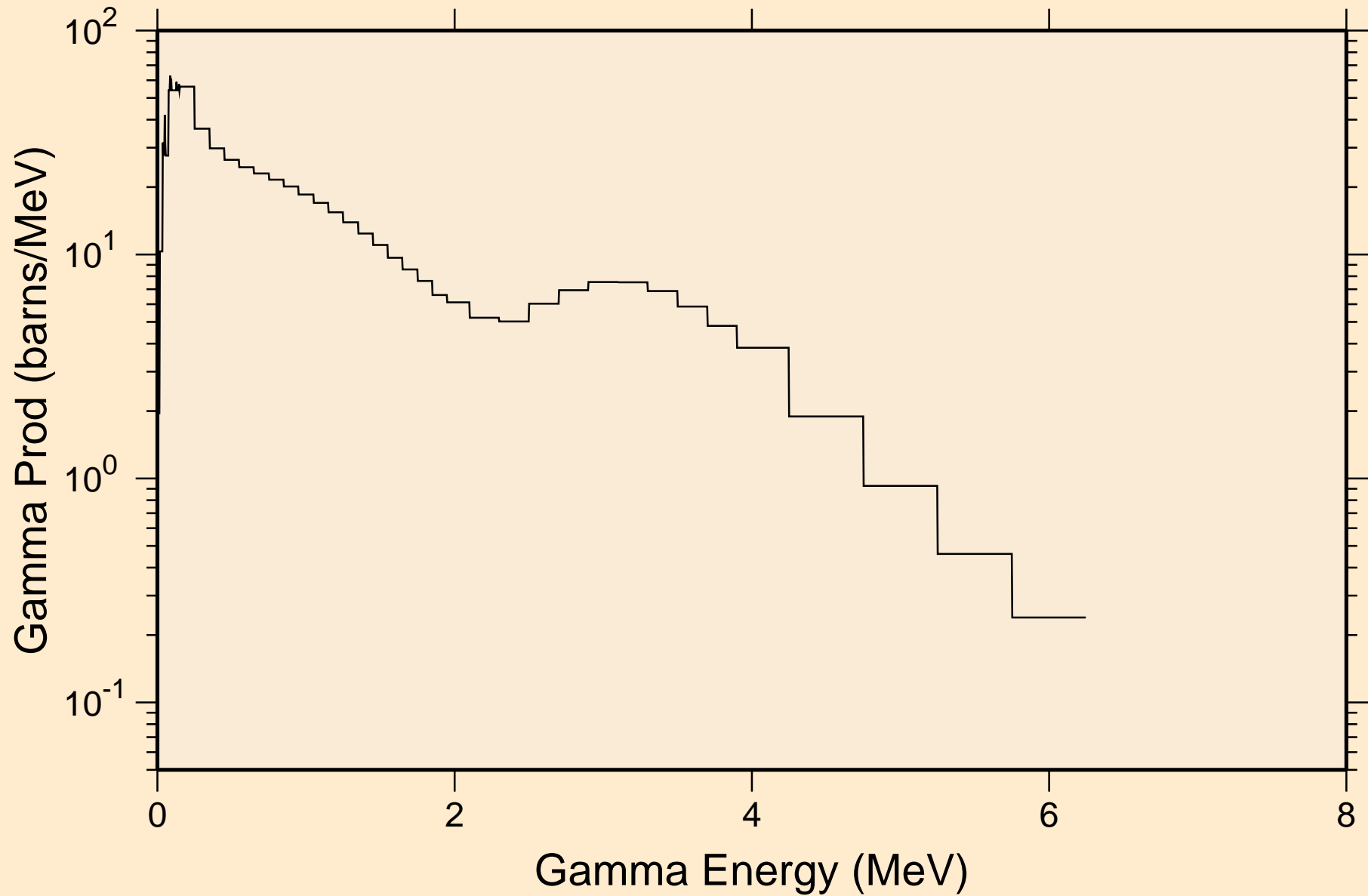
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Photon emission for (n,pt)



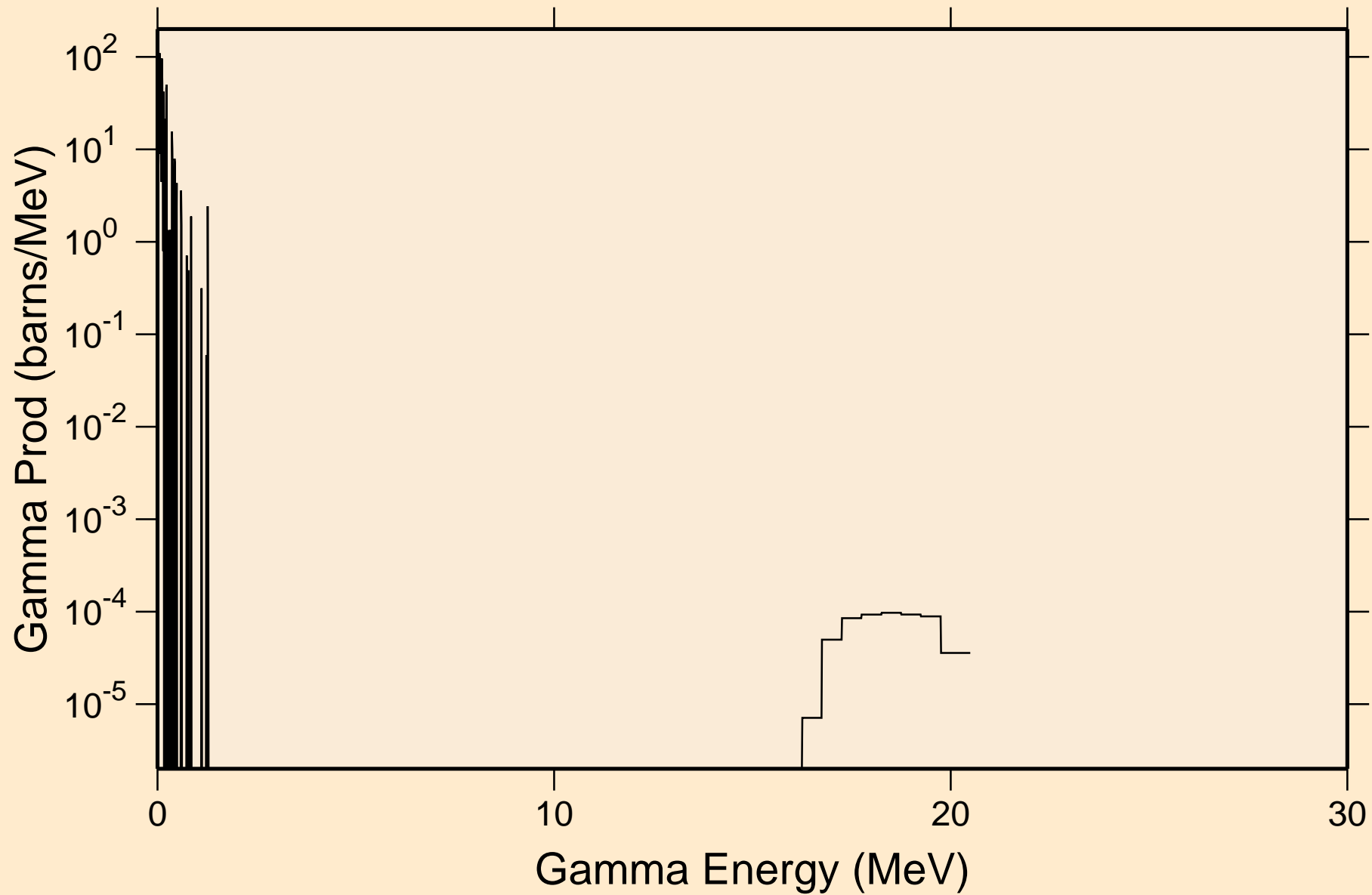
N-NP231 NRG TENDL-2017, AKONING  
Photon emission for (n,da)



N-NP231 NRG TENDL-2017, AKONING  
thermal capture photon spectrum

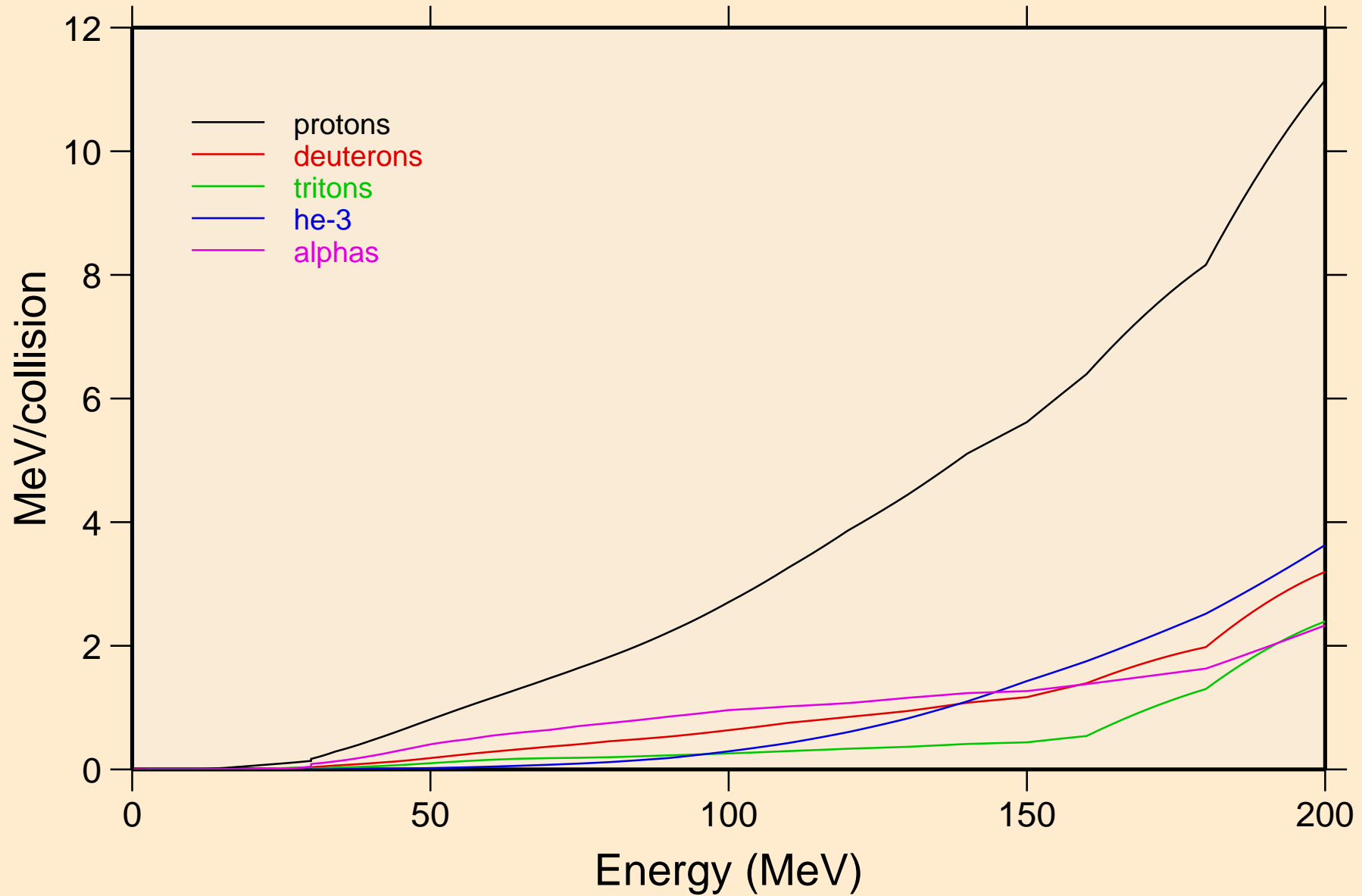


N-NP231 NRG TENDL-2017, AKONING  
14 MeV photon spectrum



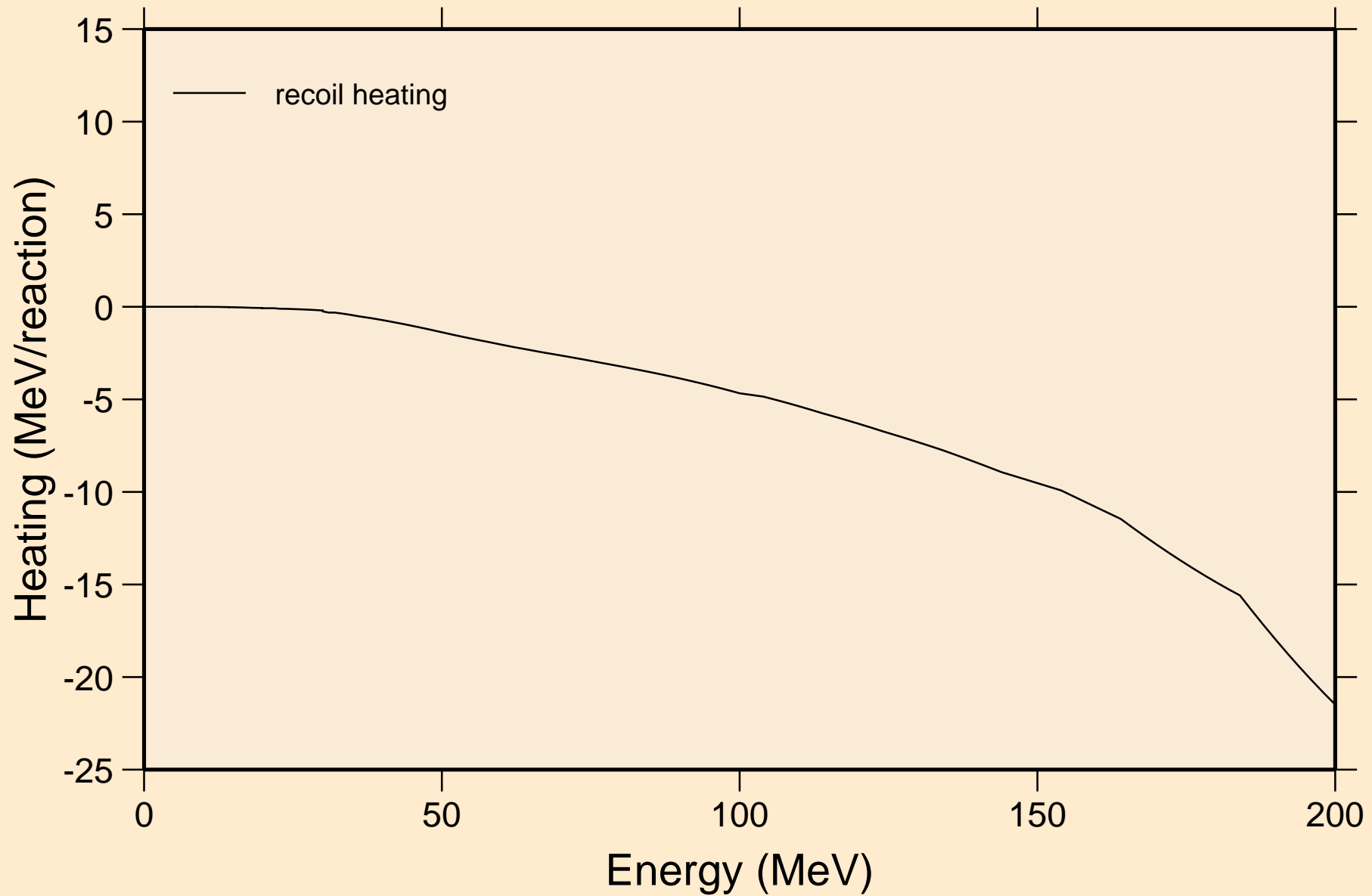
# N-NP231 NRG TENDL-2017, AKONING

## Particle heating contributions



# N-NP231 NRG TENDL-2017, AKONING

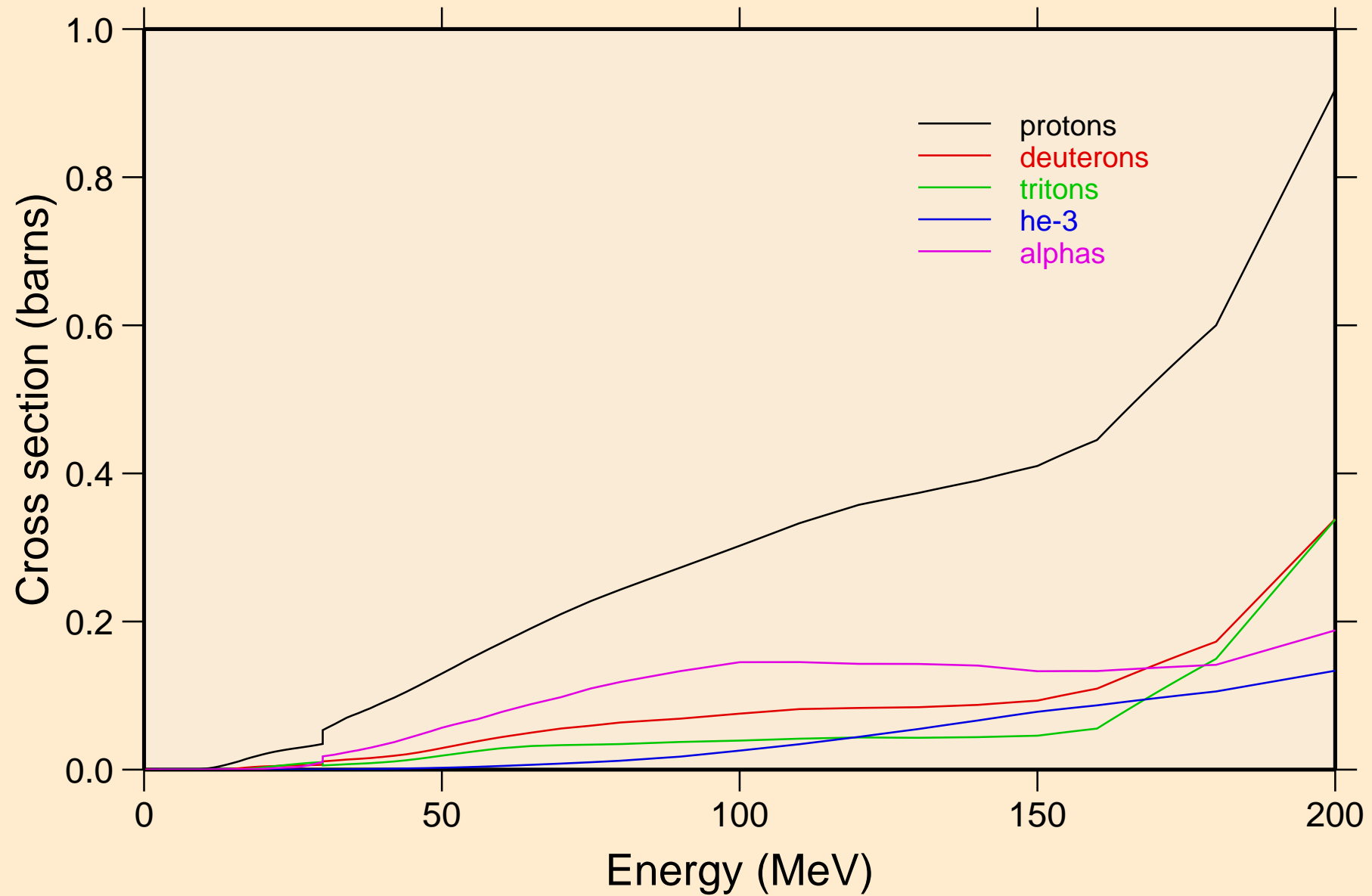
## Recoil Heating



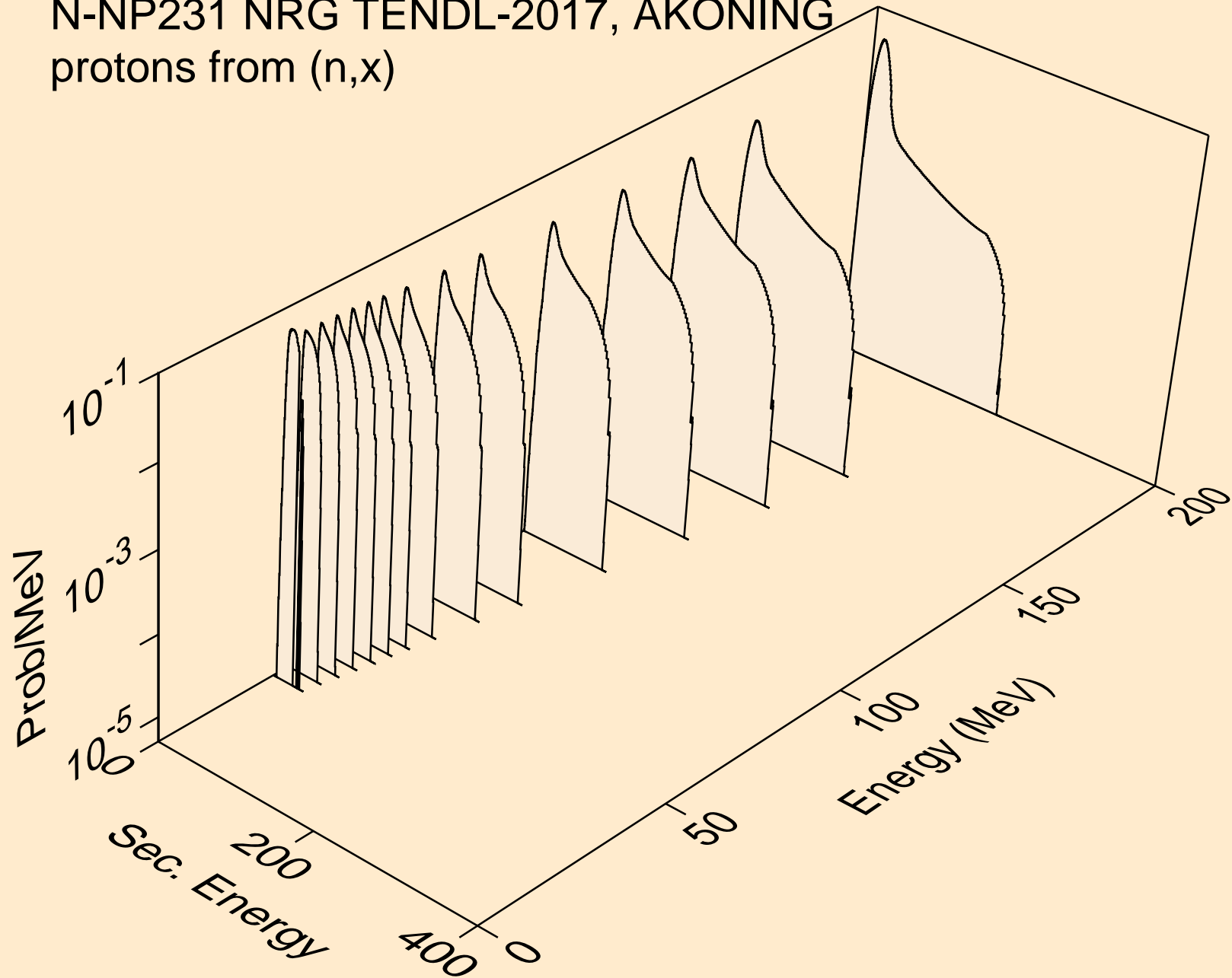


# N-NP231 NRG TENDL-2017, AKONING

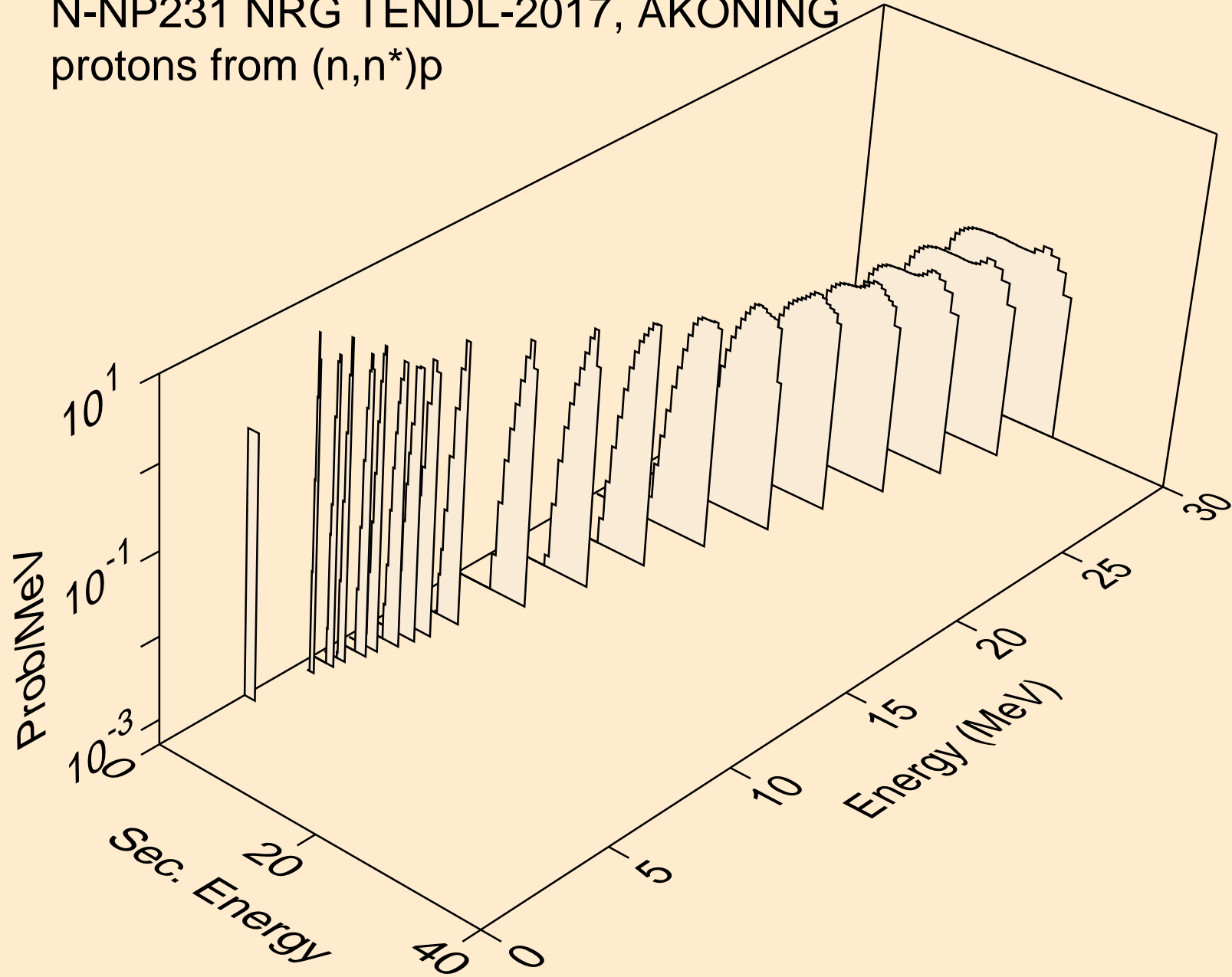
## Particle production cross sections



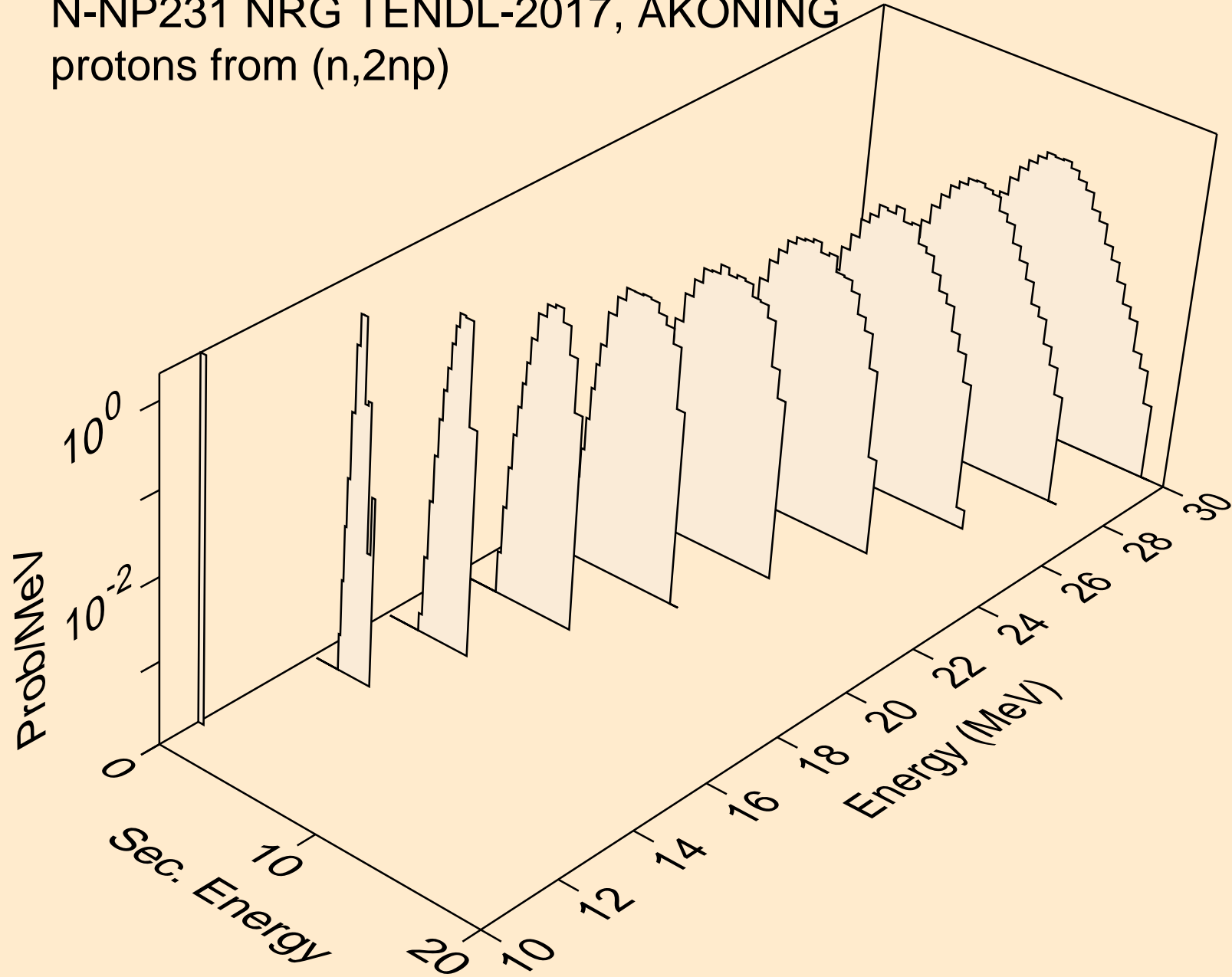
N-NP231 NRG TENDL-2017, AKONING  
protons from (n,x)



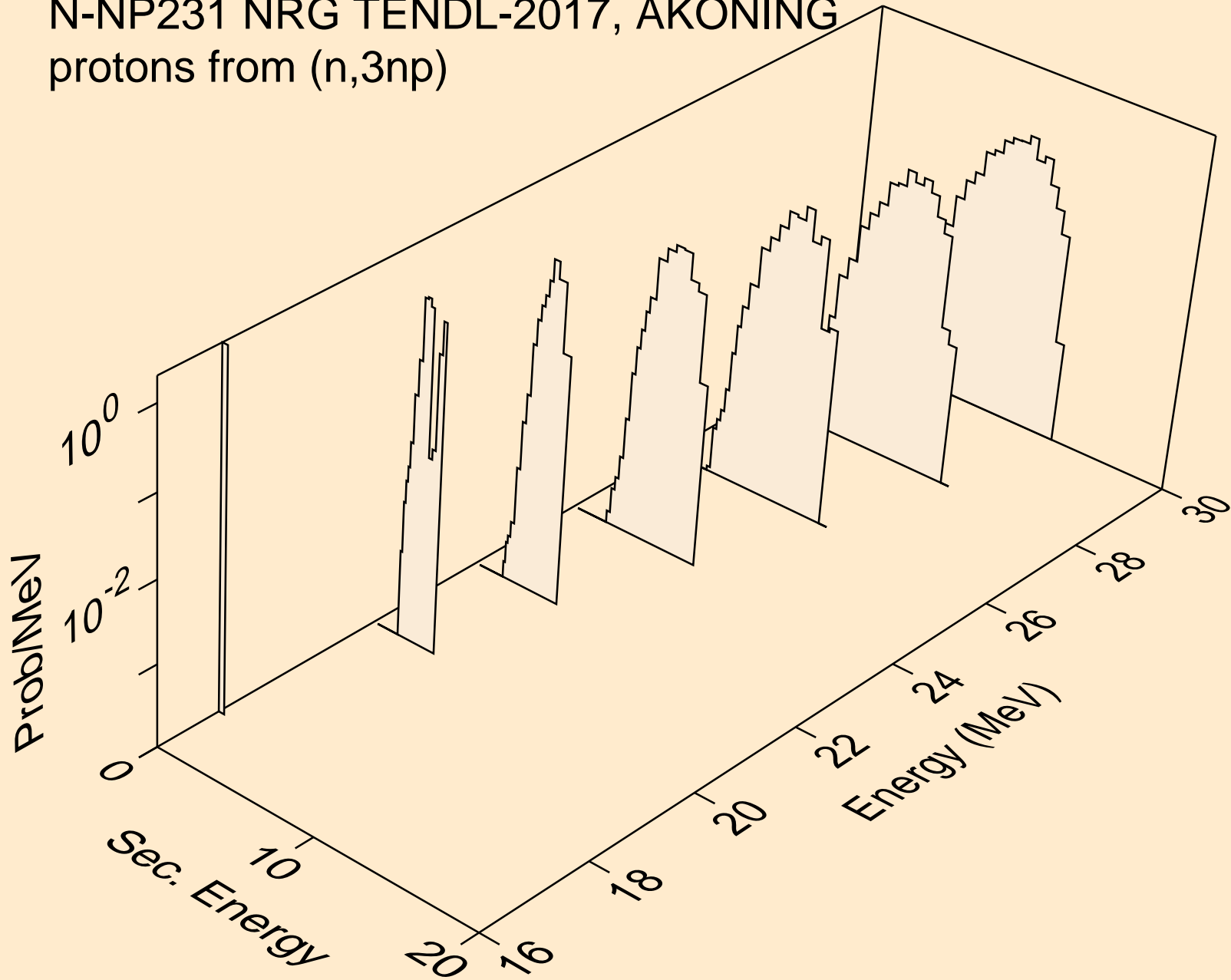
N-NP231 NRG TENDL-2017, AKONING  
protons from (n,n\*)p



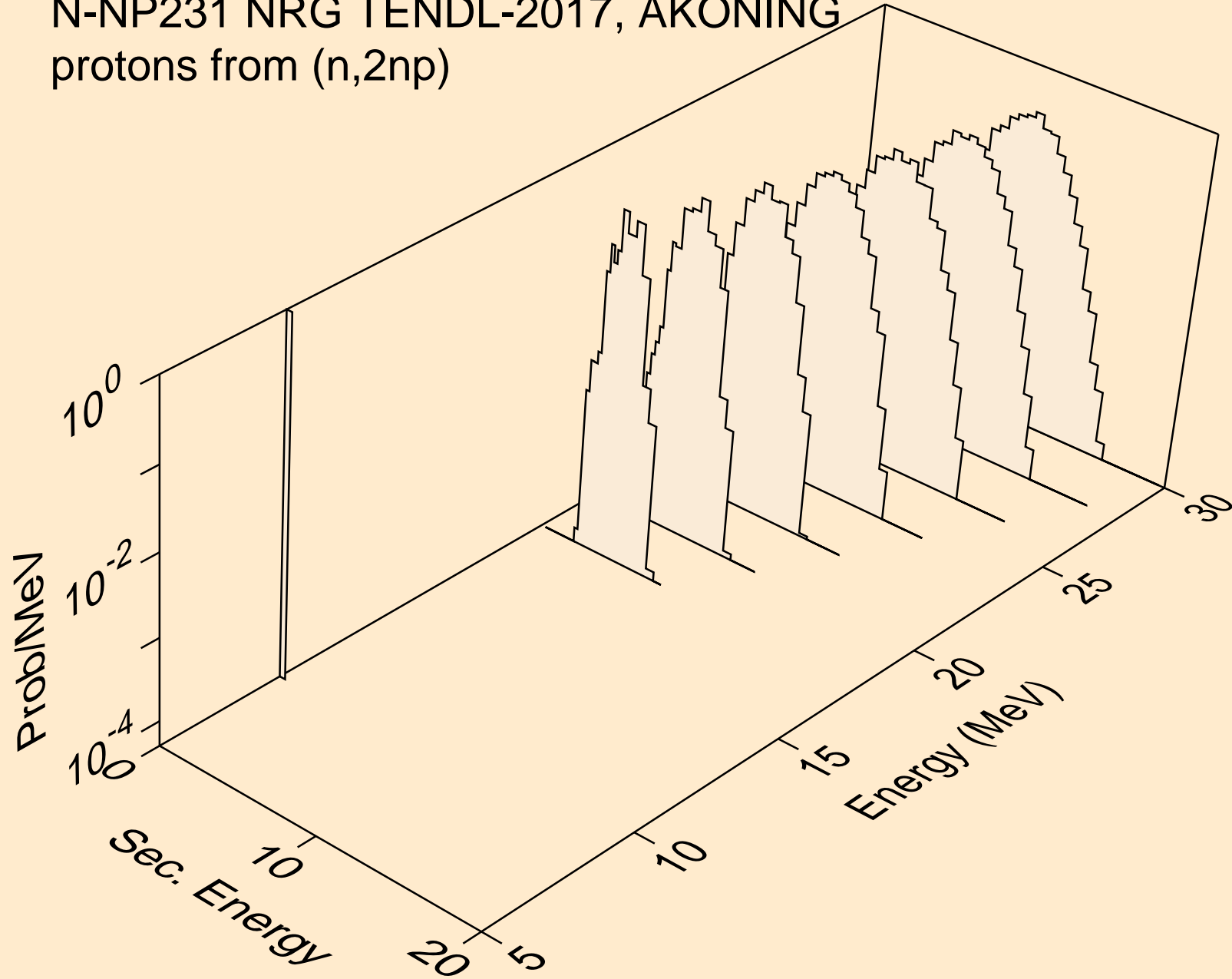
N-NP231 NRG TENDL-2017, AKONING  
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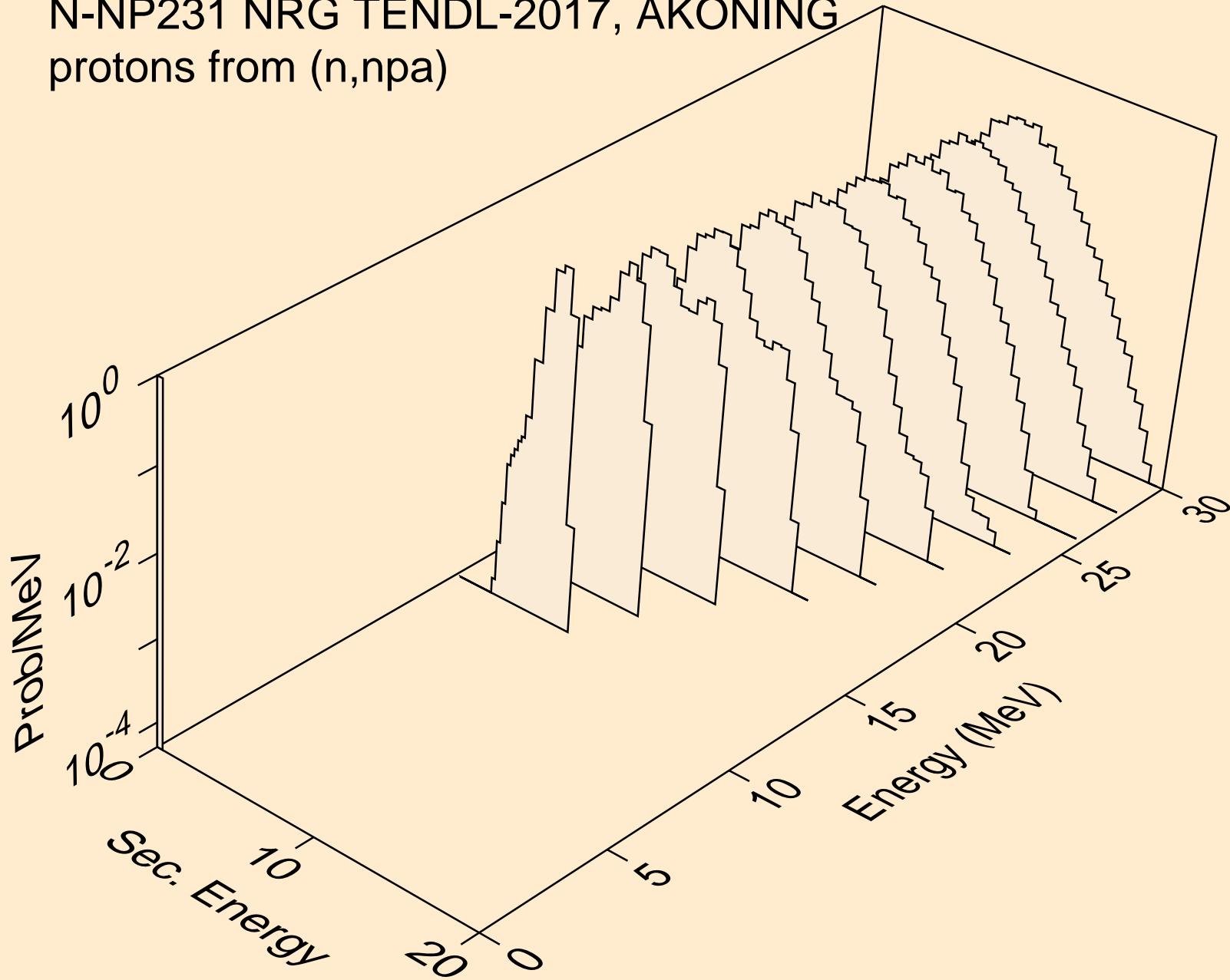
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protons from (n,3np)



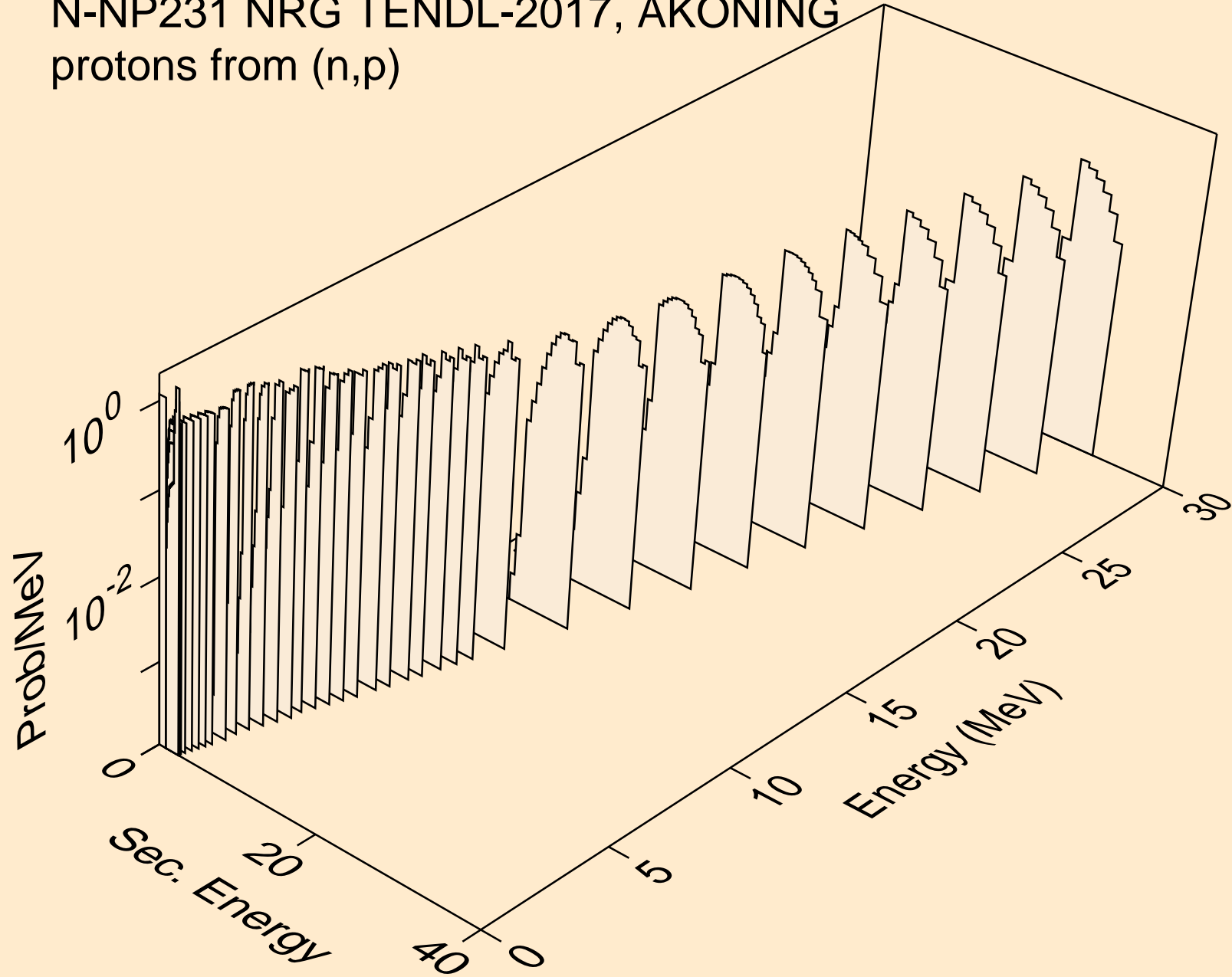
N-NP231 NRG TENDL-2017, AKONING  
protons from (n,2np)



N-NP231 NRG TENDL-2017, AKONING  
protons from (n,npa)

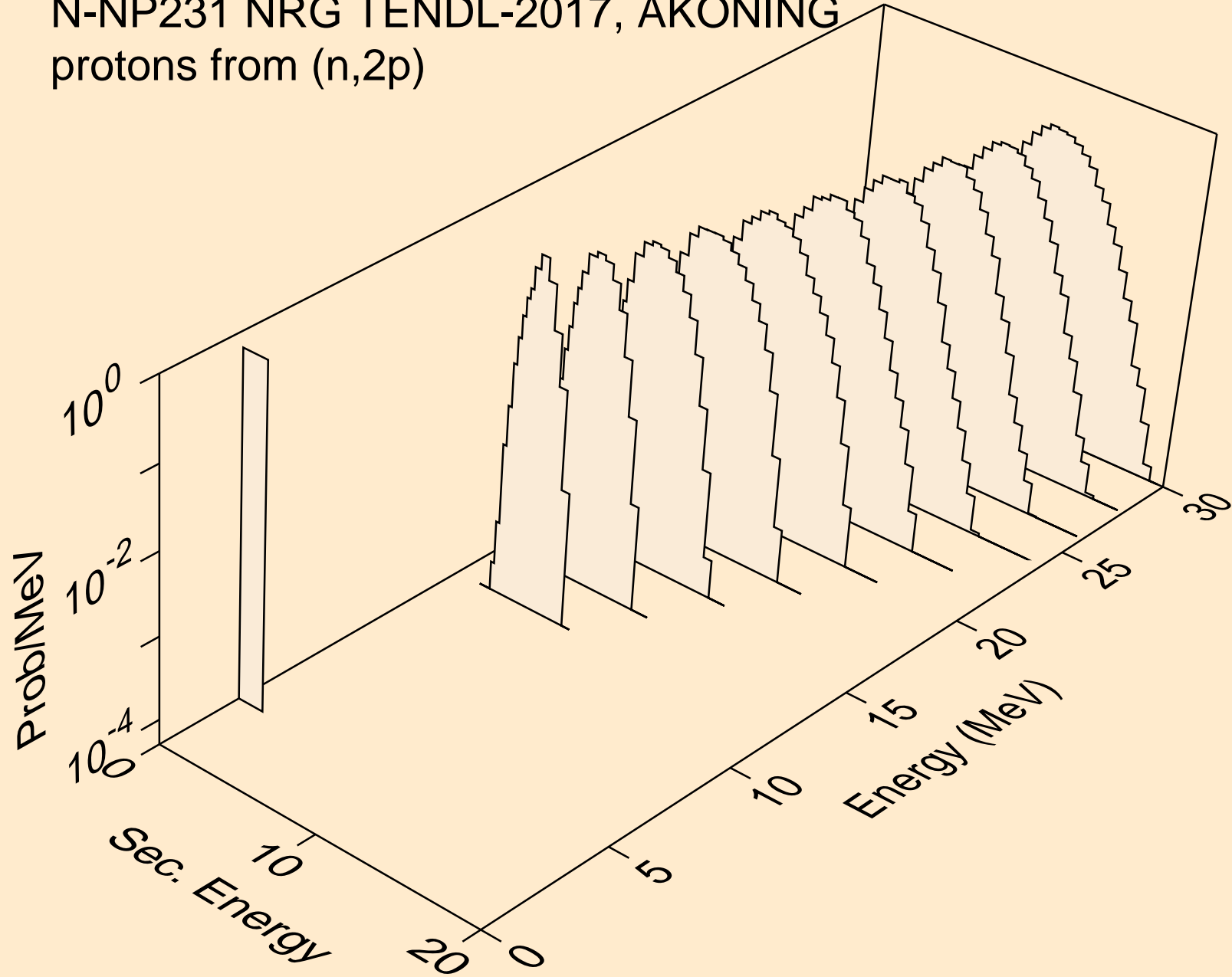


N-NP231 NRG TENDL-2017, AKONING  
protons from (n,p)

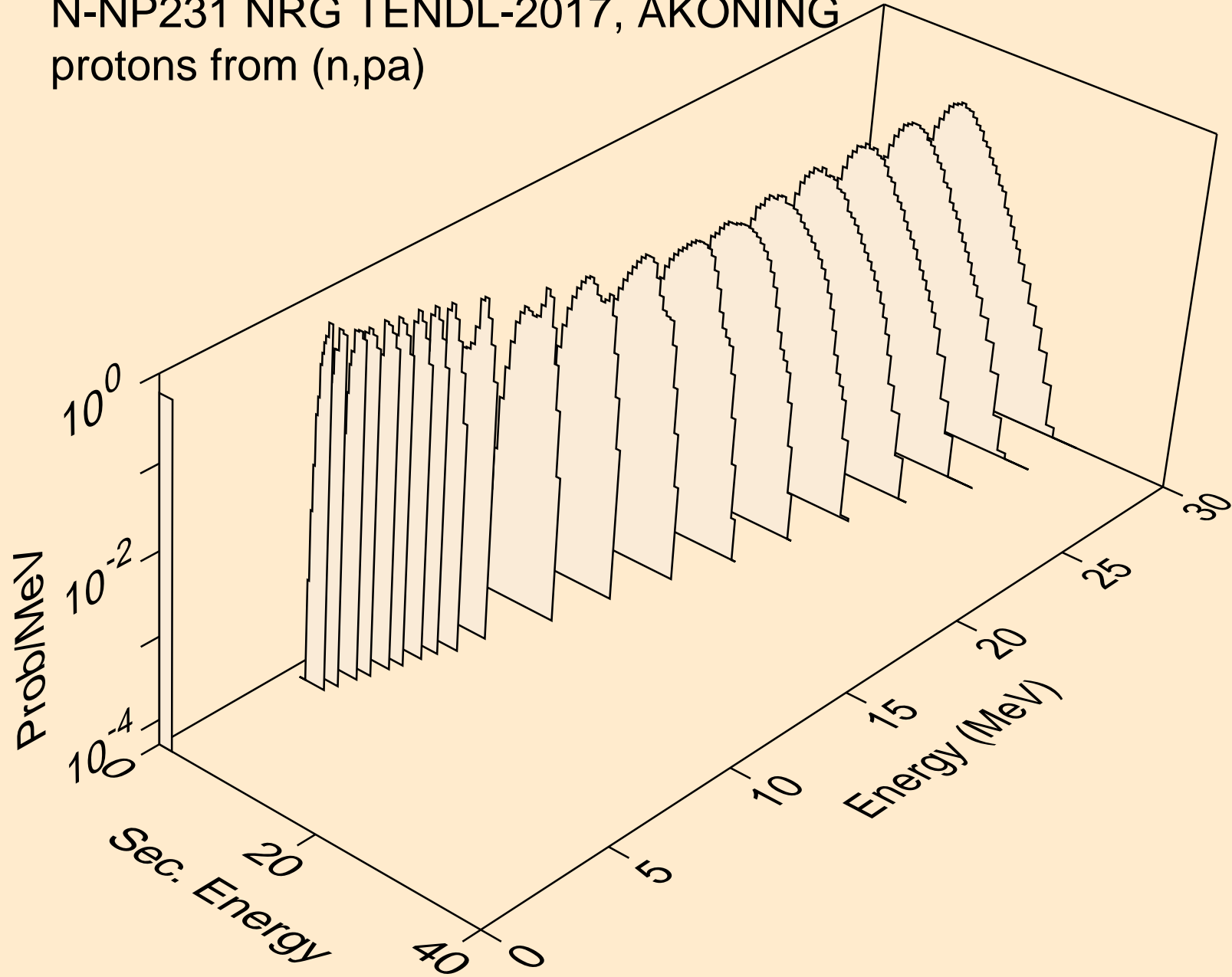




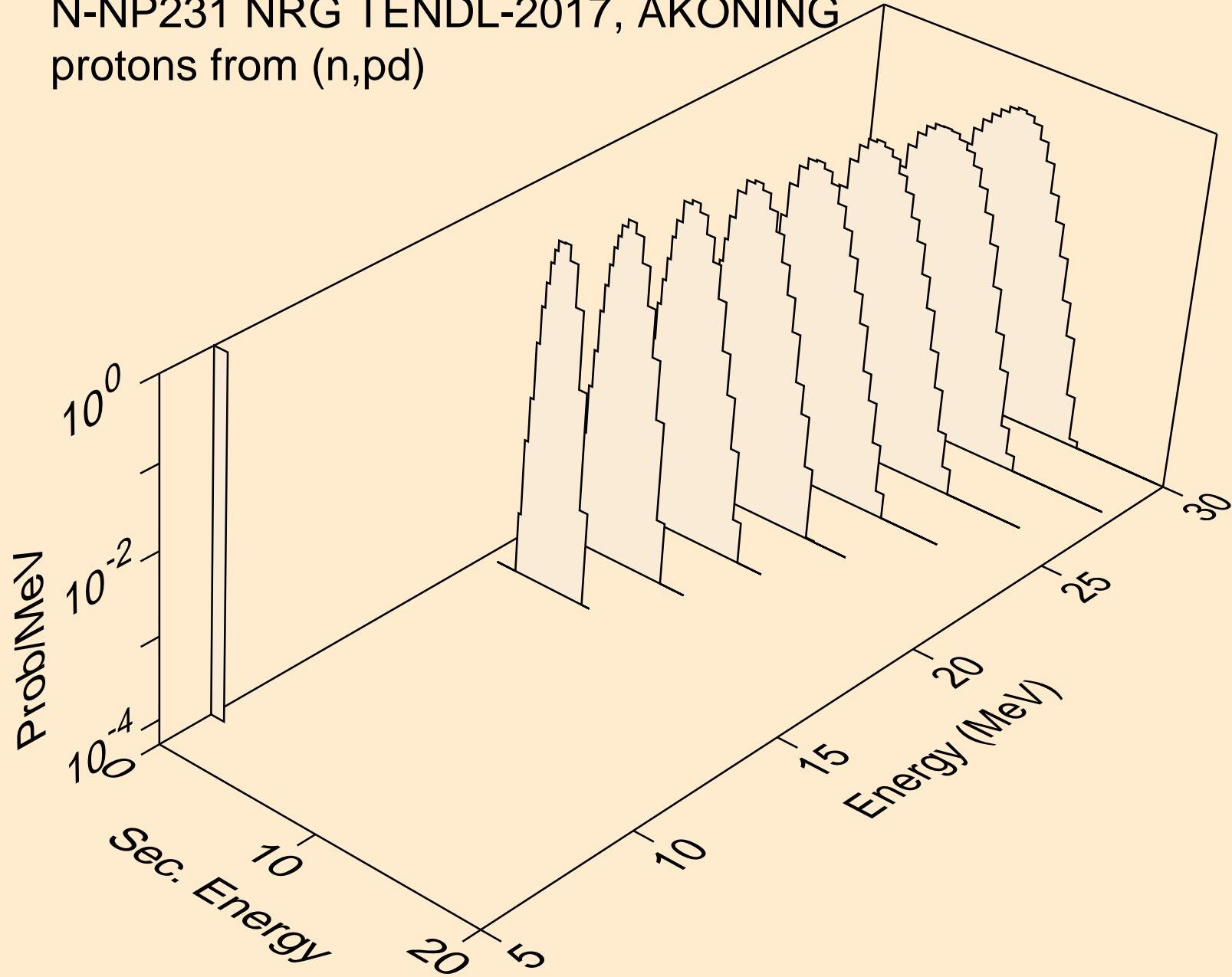
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protons from (n,2p)



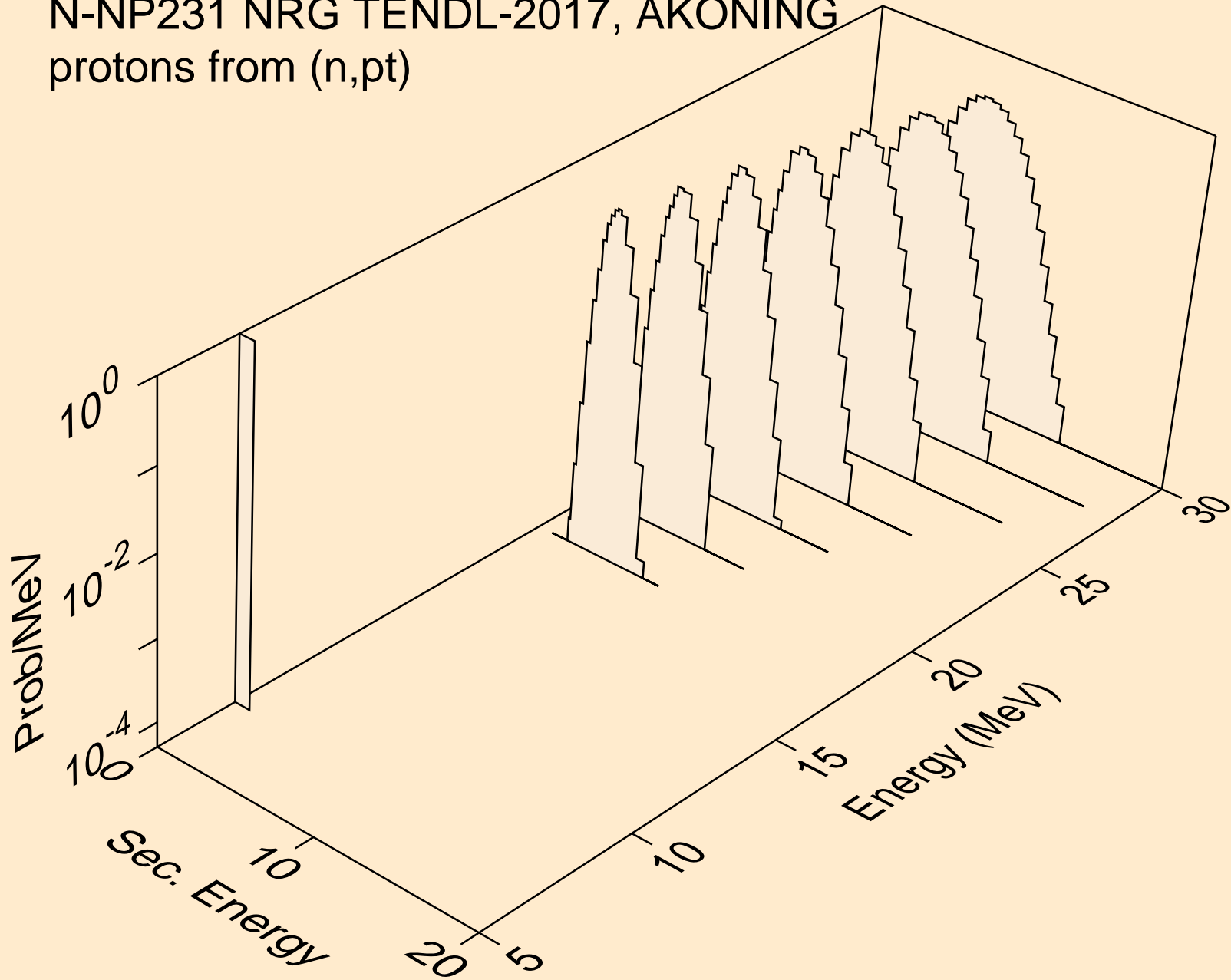
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protons from (n,pa)



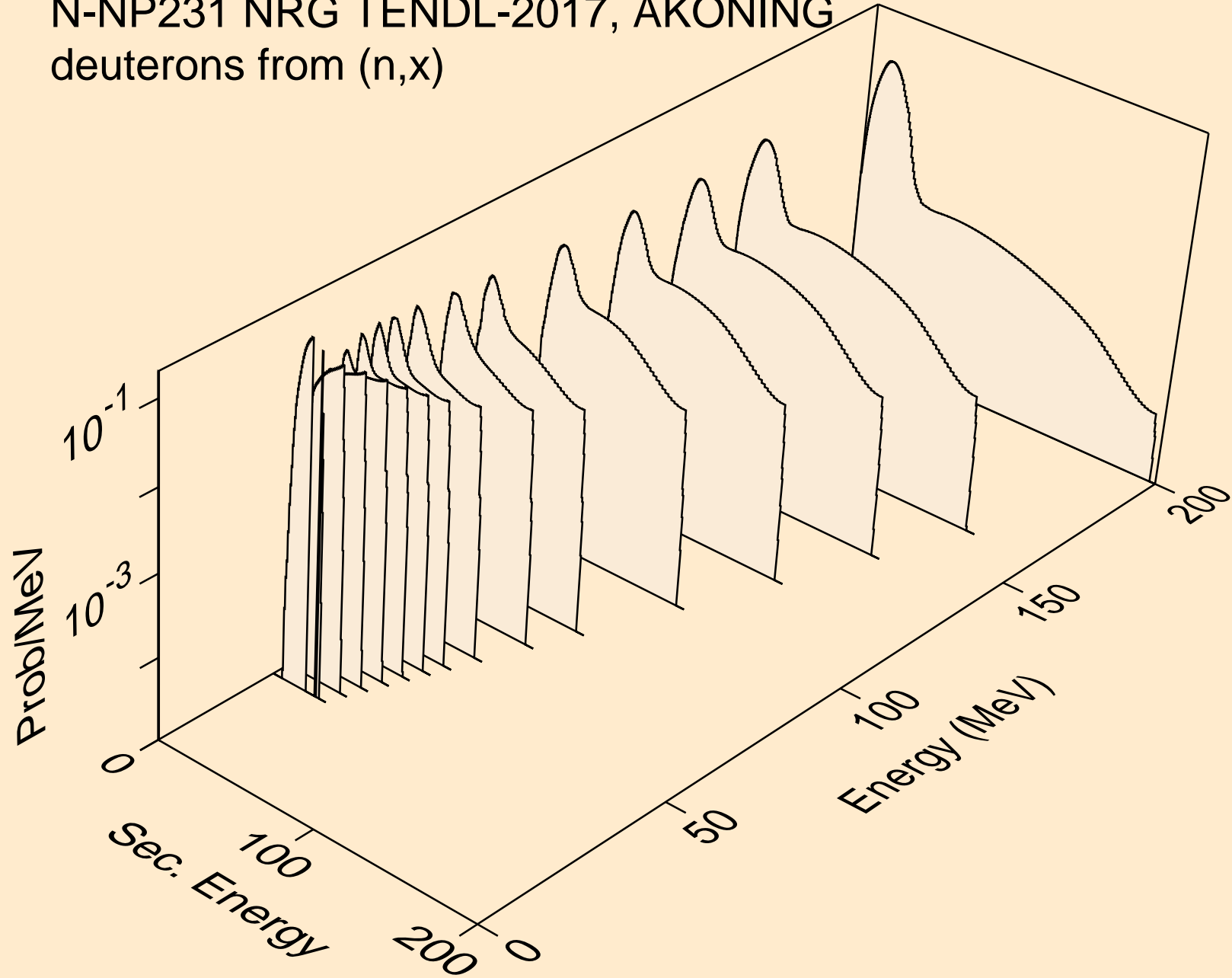
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protons from (n,pd)



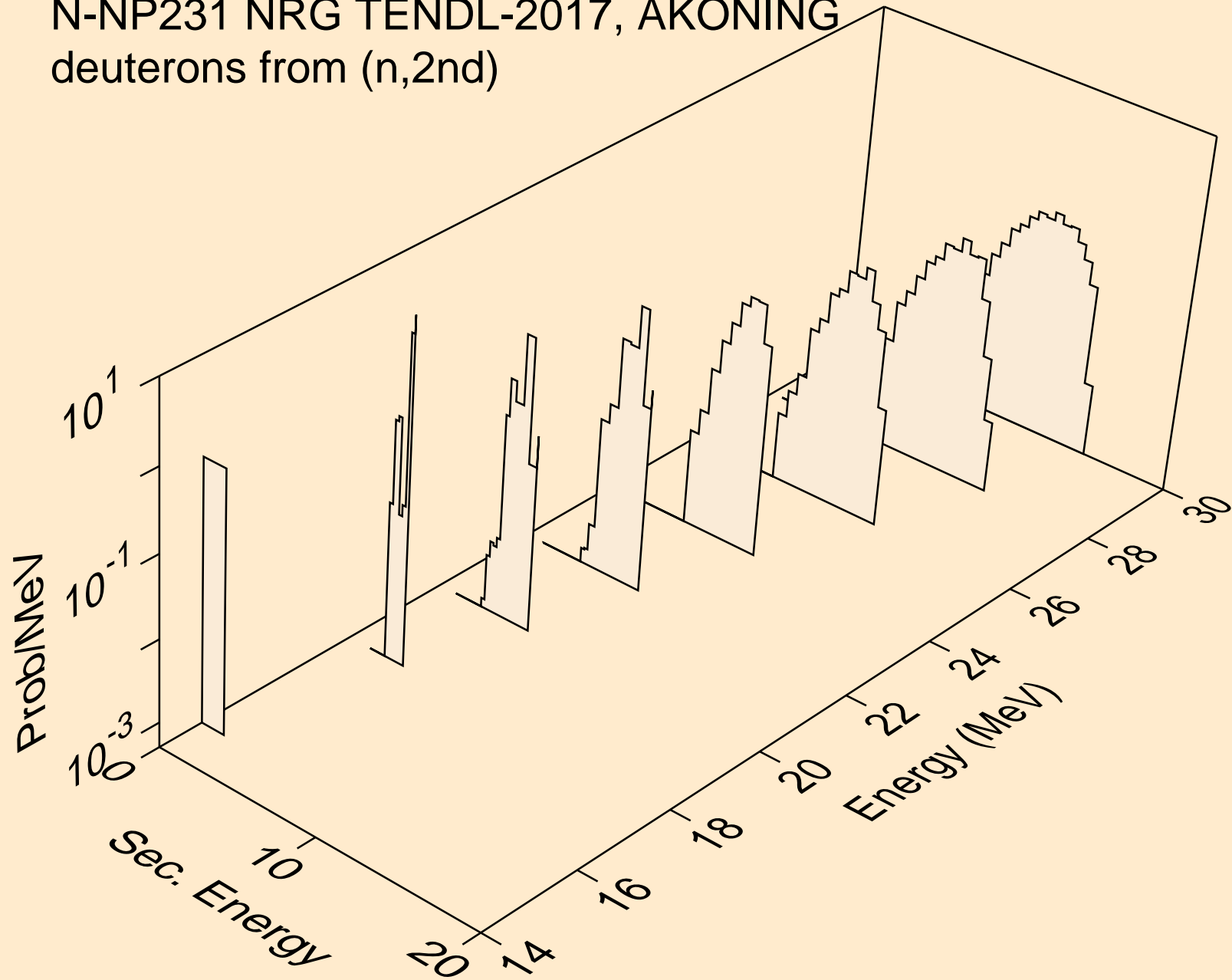
N-NP231 NRG TENDL-2017, AKONING  
protons from (n,pt)



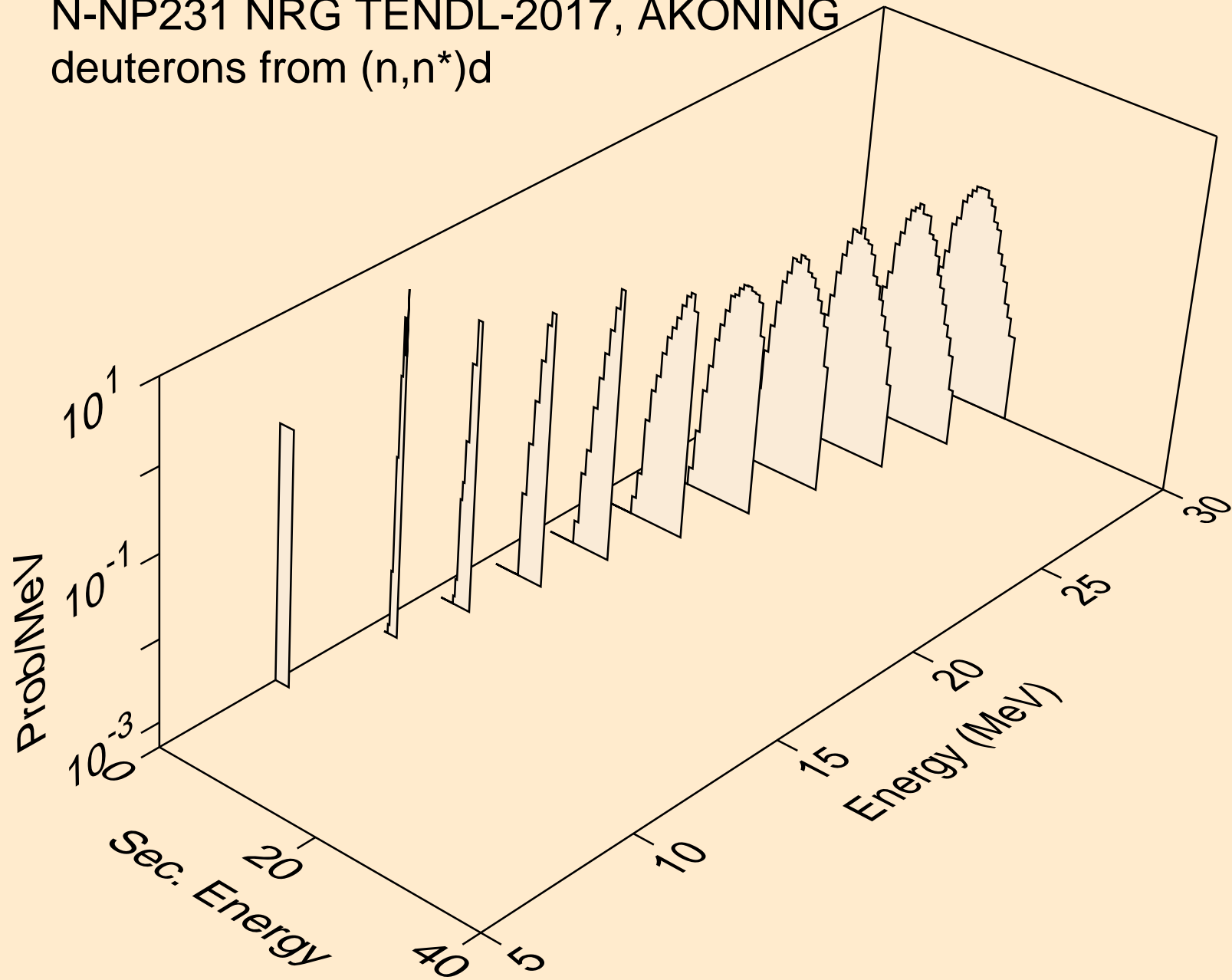
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deuterons from (n,x)



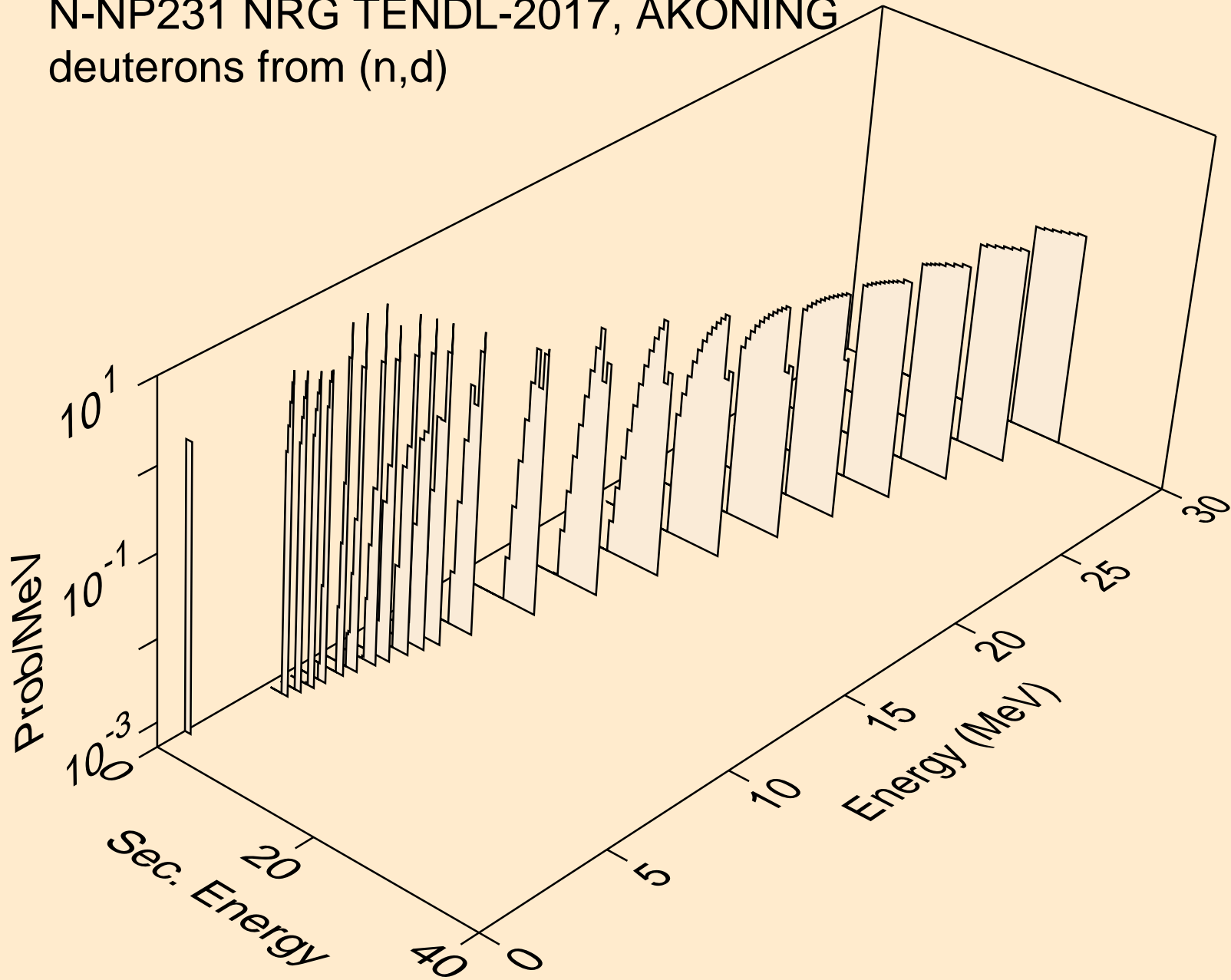
N-NP231 NRG TENDL-2017, AKONING  
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N-NP231 NRG TENDL-2017, AKONING  
deuterons from (n,n\*)d

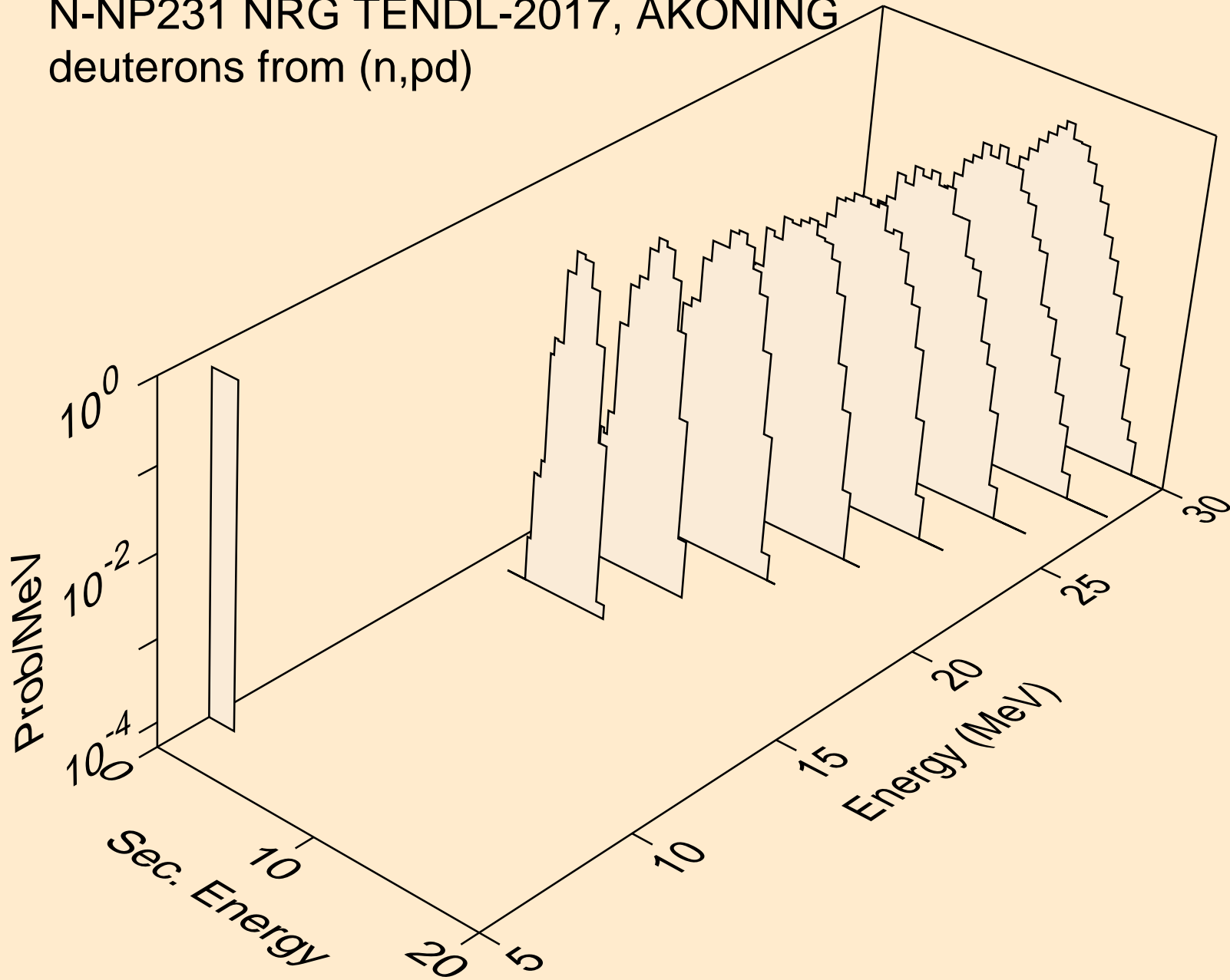


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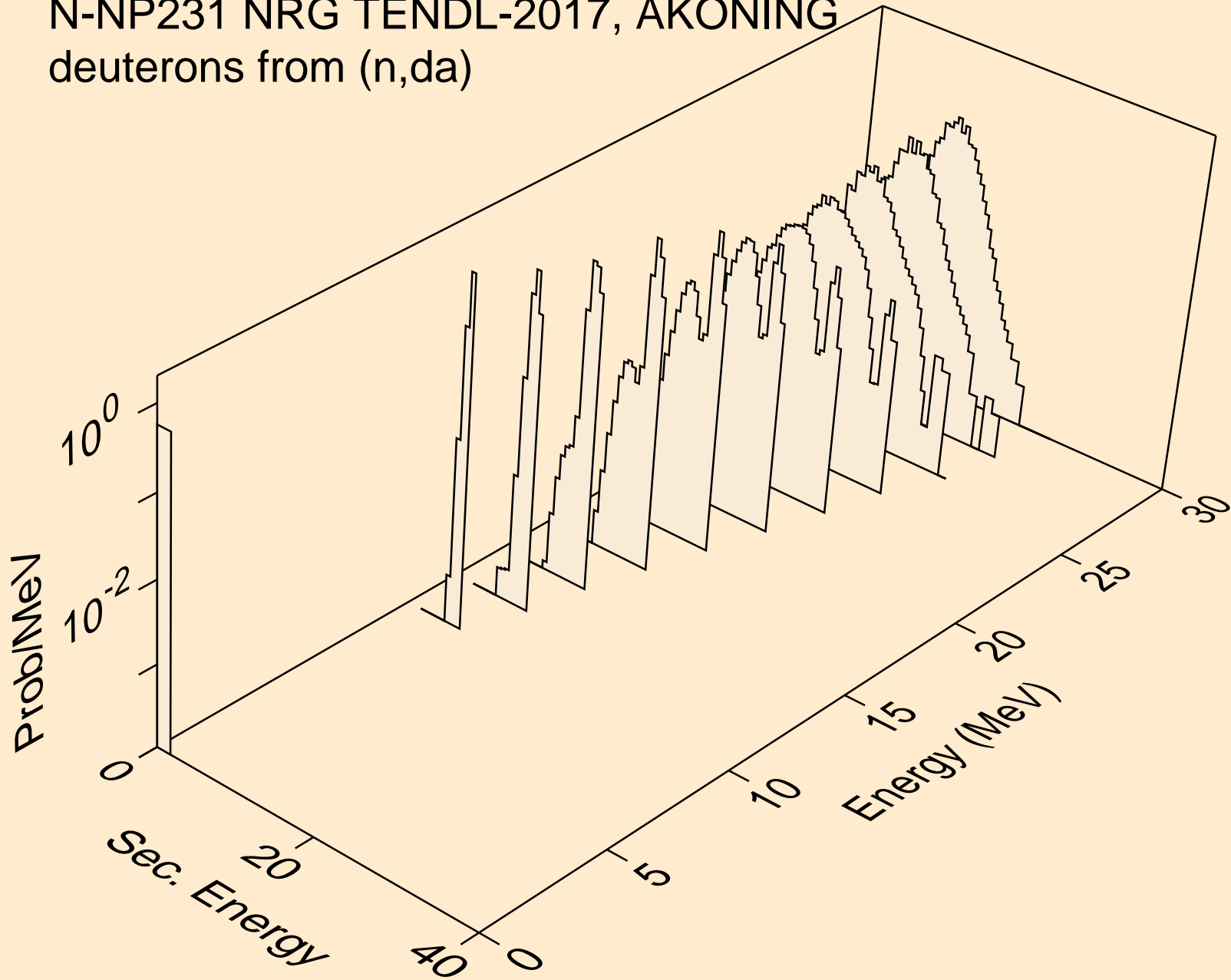




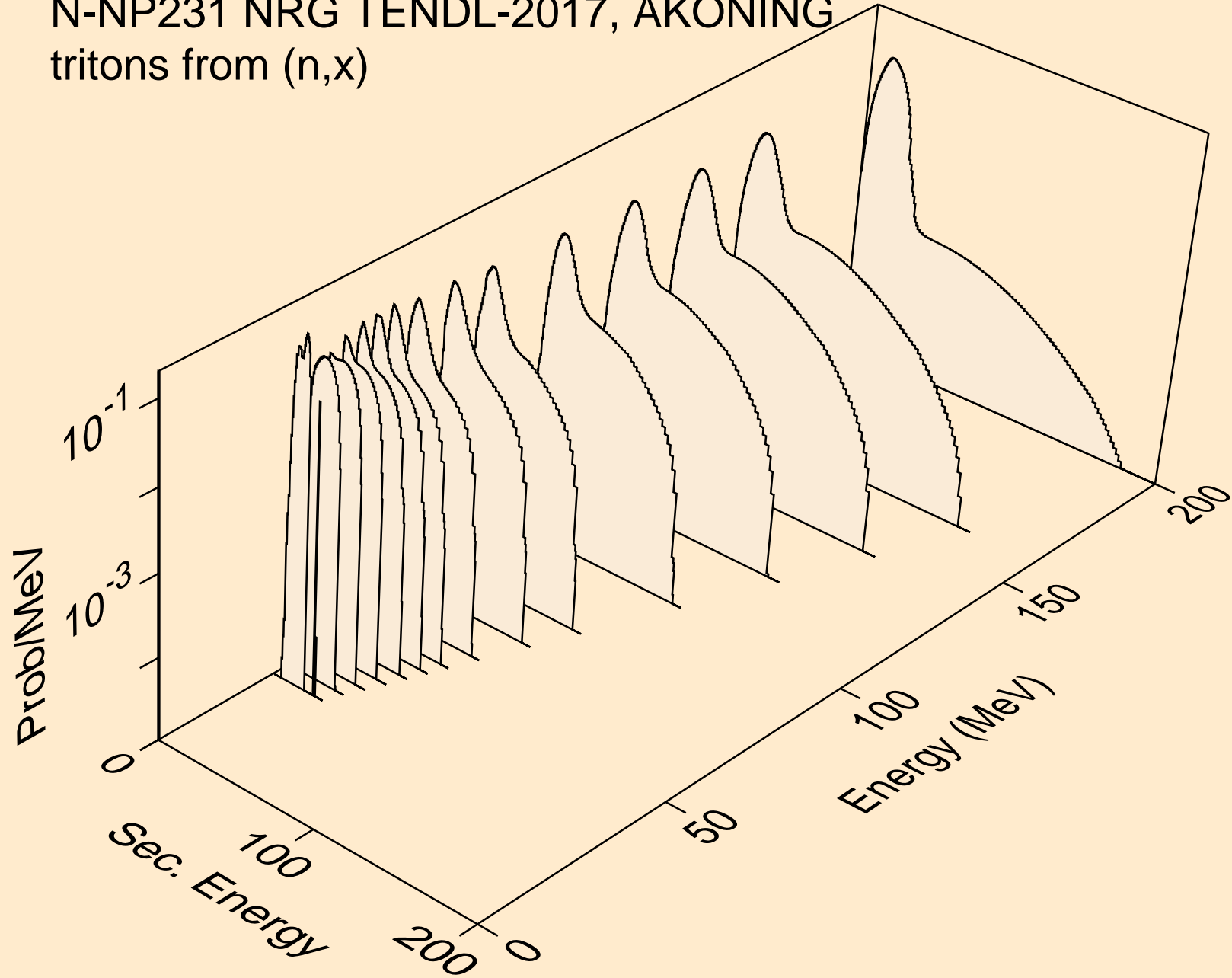
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deuterons from (n,pd)



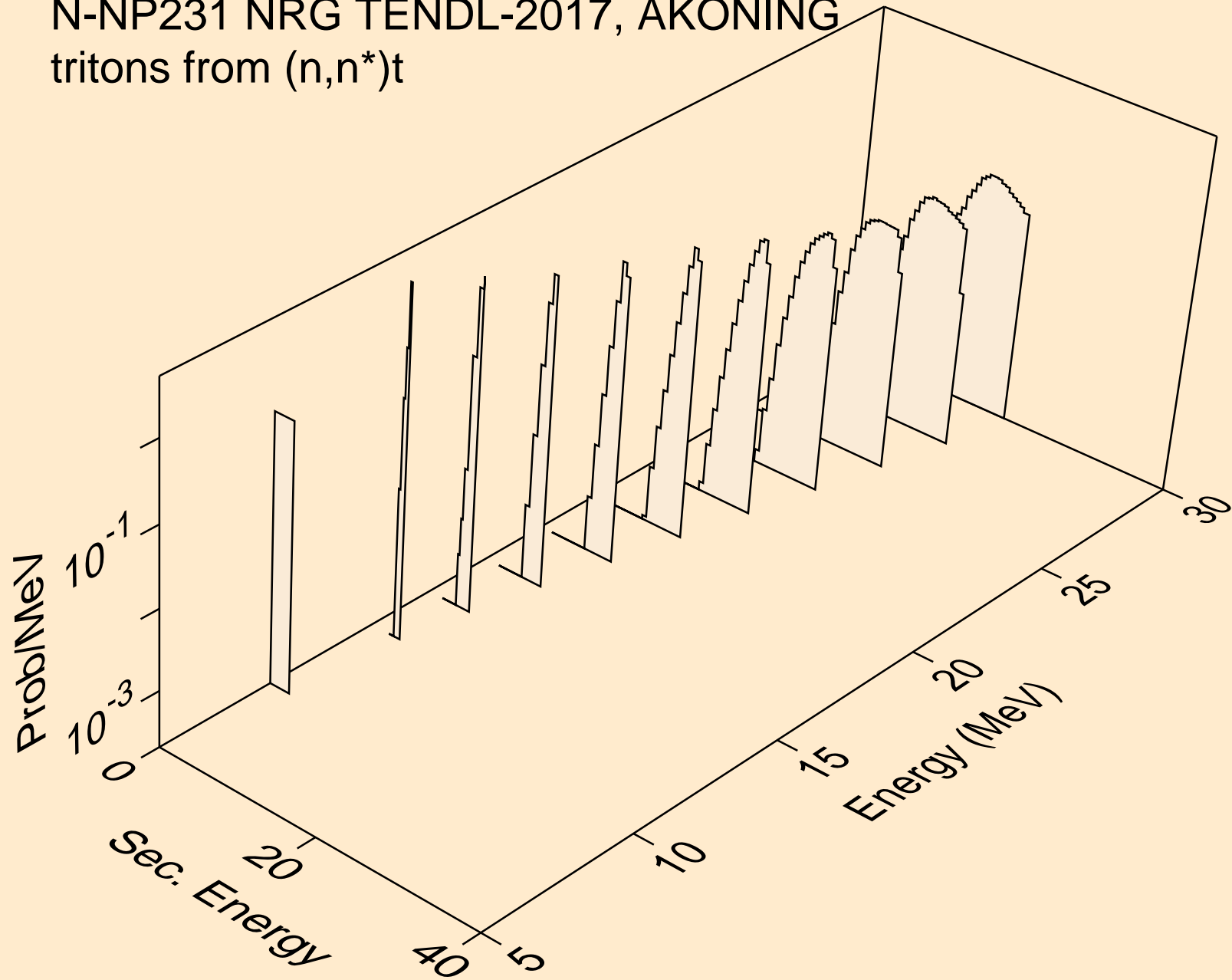
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deuterons from (n,da)



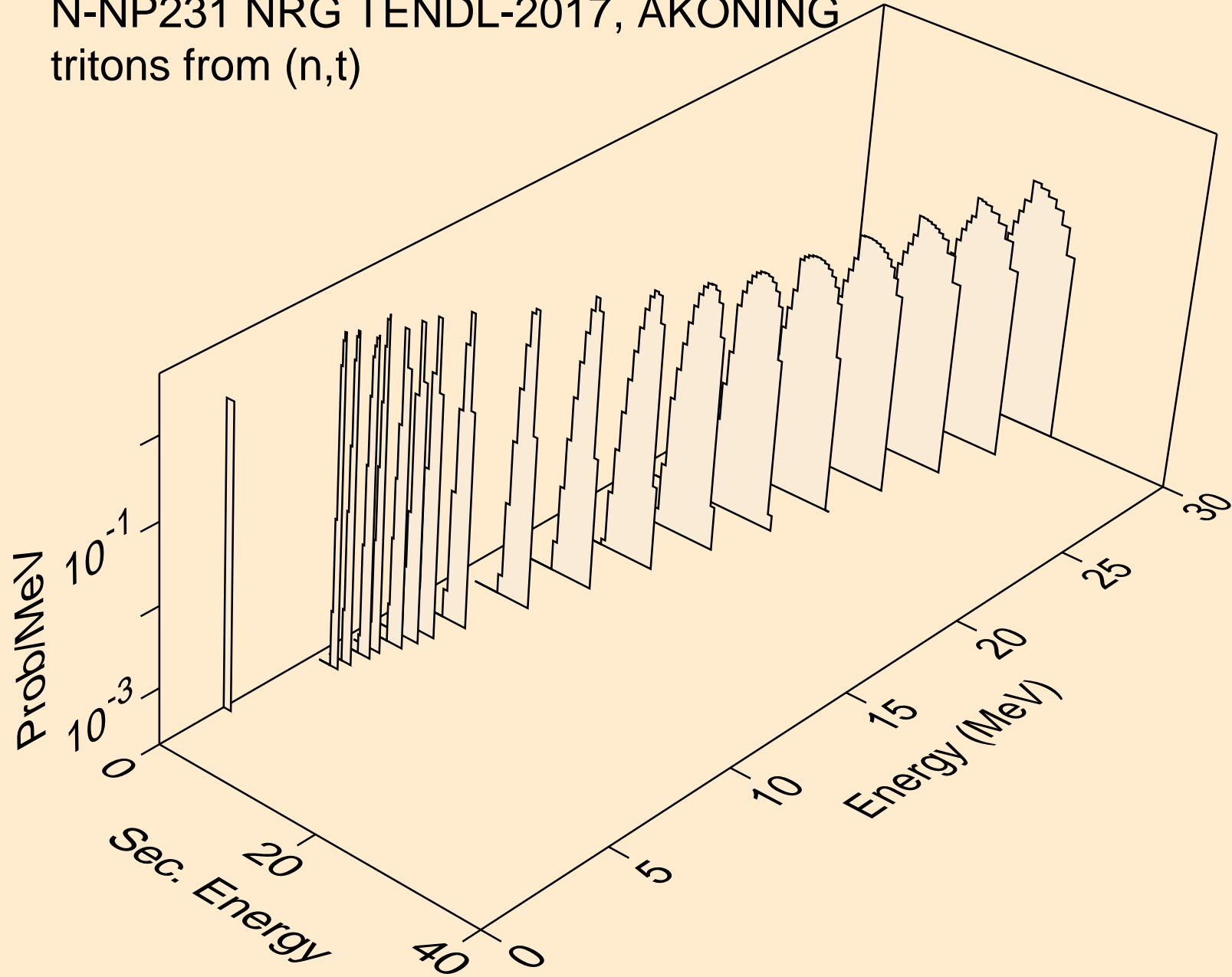
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tritons from (n,x)



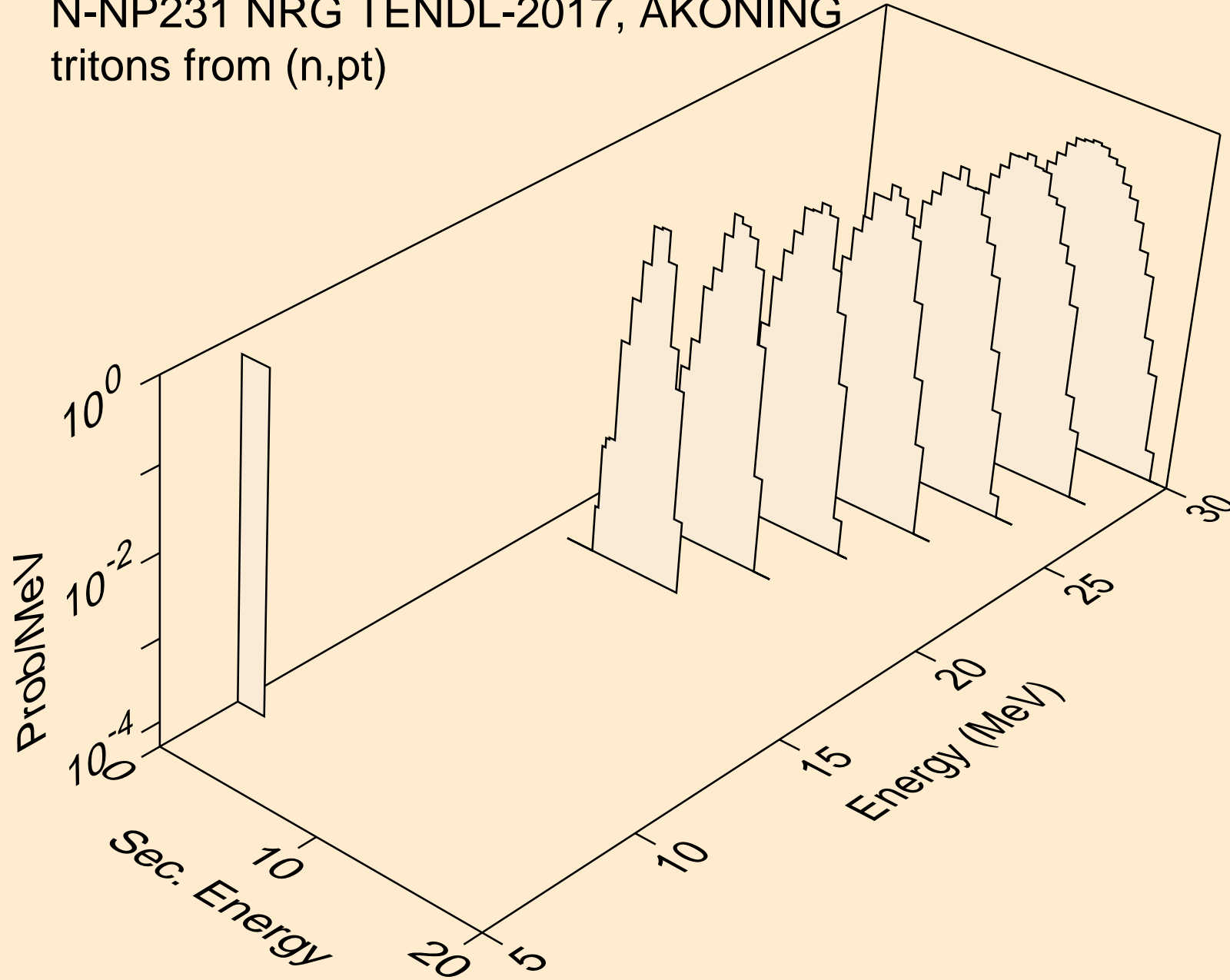
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tritons from (n,n\*)t



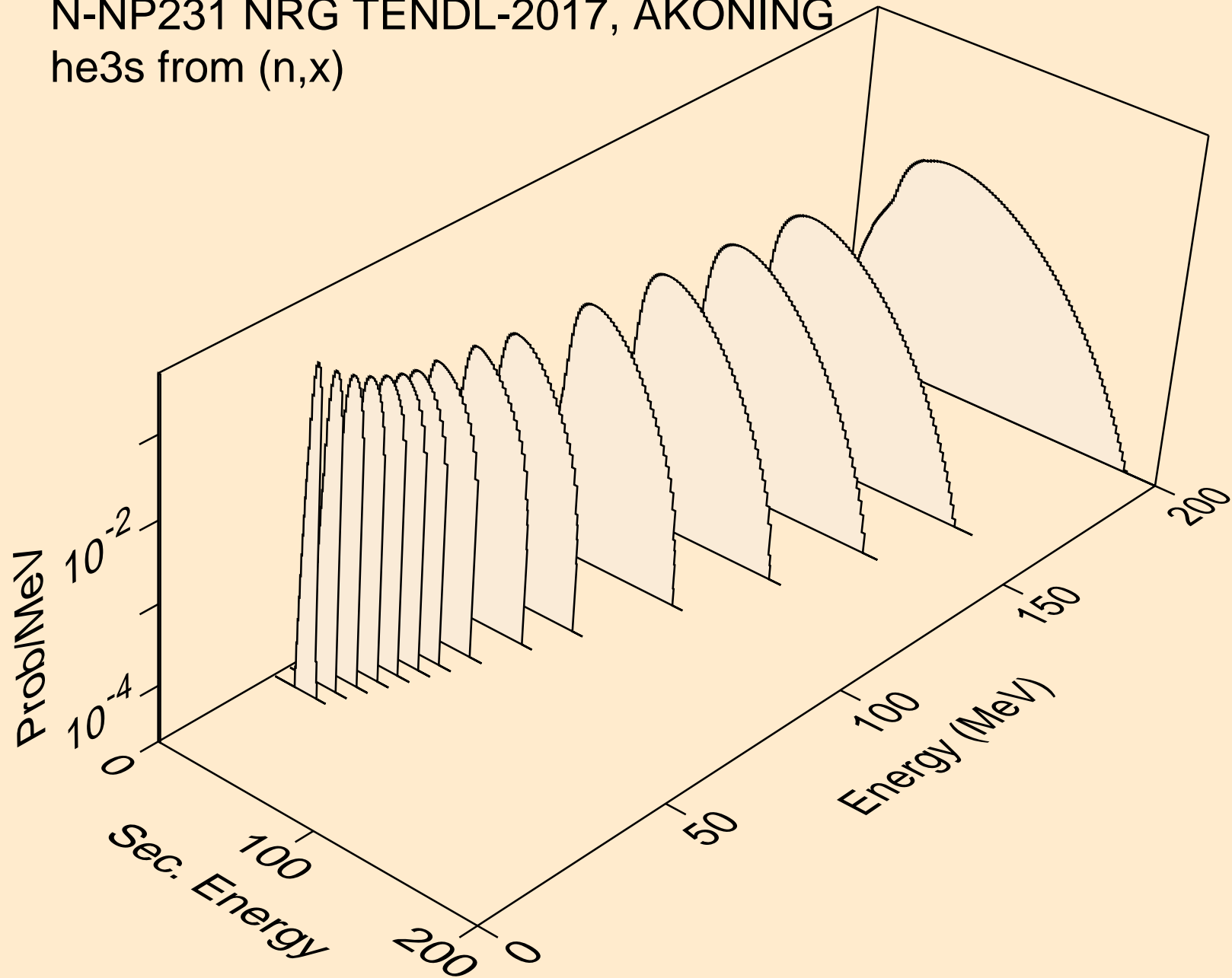
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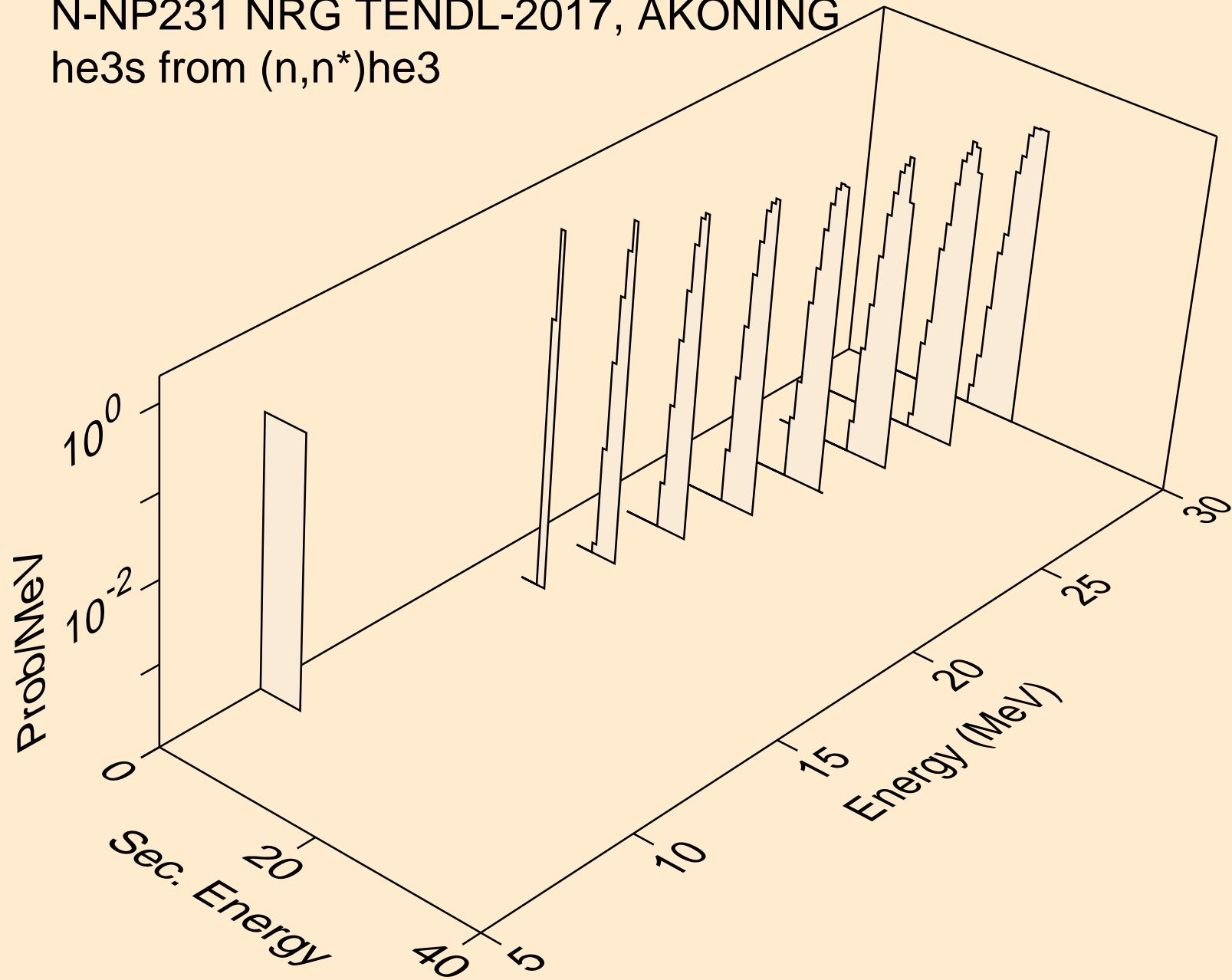
N-NP231 NRG TENDL-2017, AKONING  
tritons from (n,pt)



N-NP231 NRG TENDL-2017, AKONING  
he3s from (n,x)

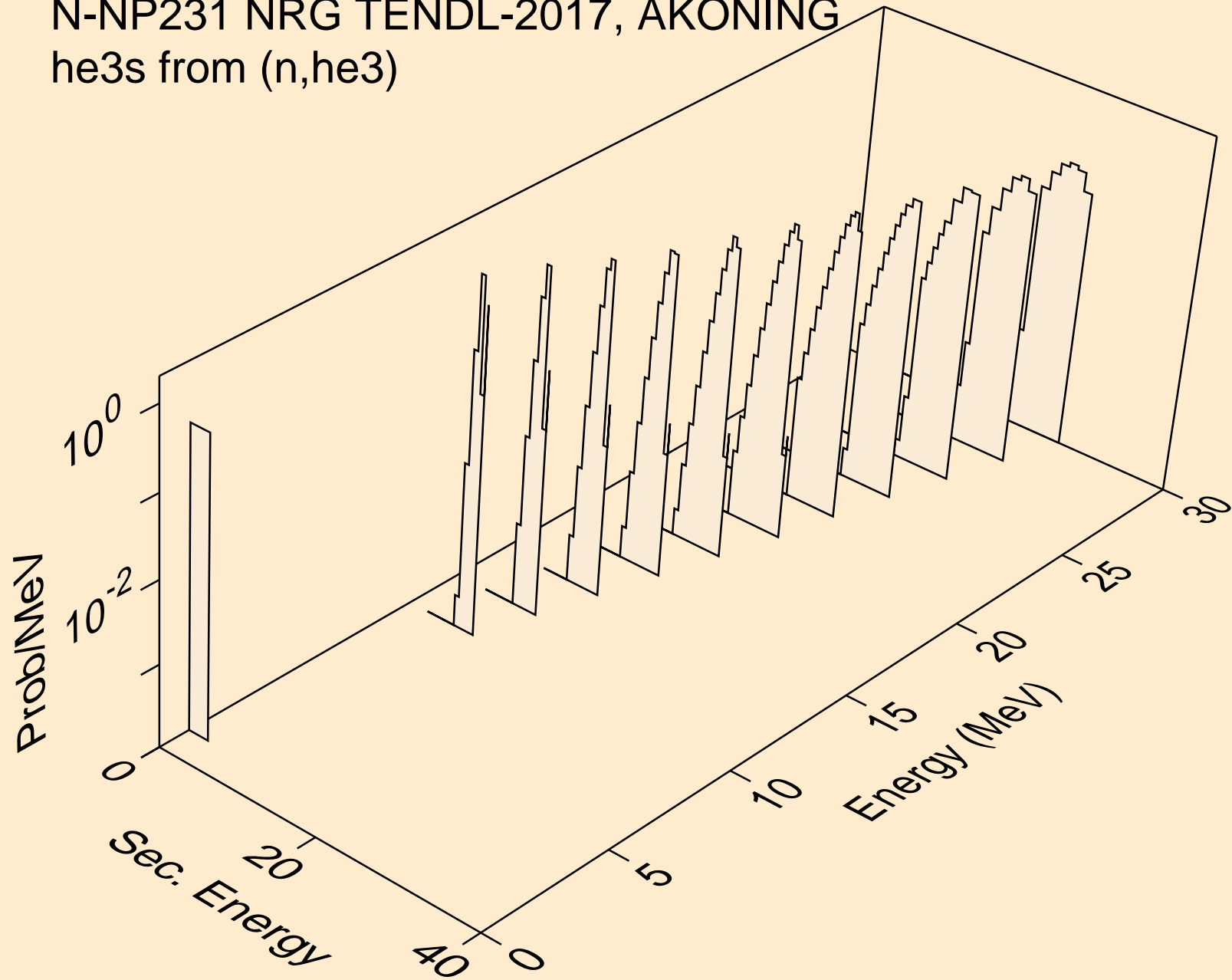


N-NP231 NRG TENDL-2017, AKONING  
he3s from (n,n\*)he3

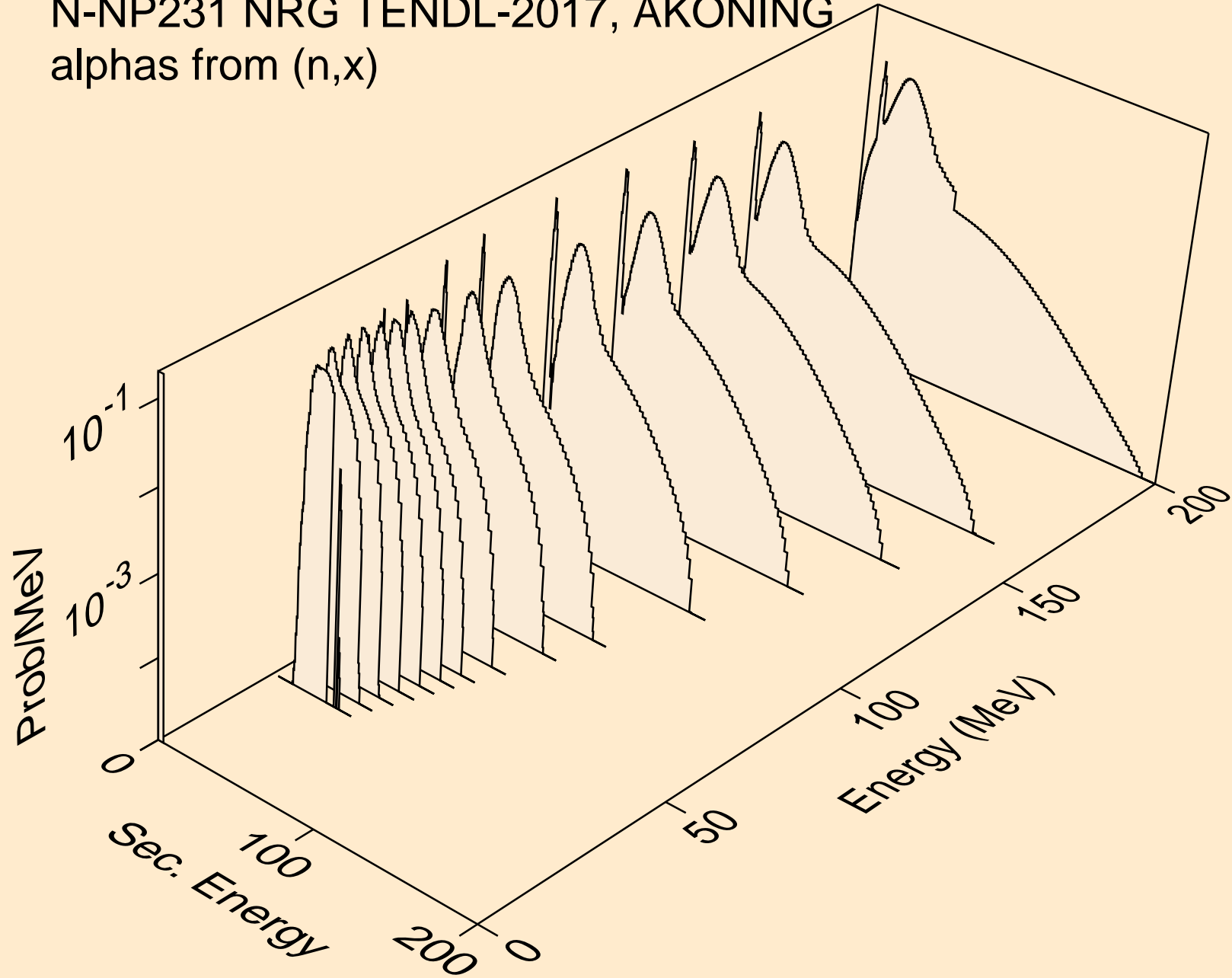




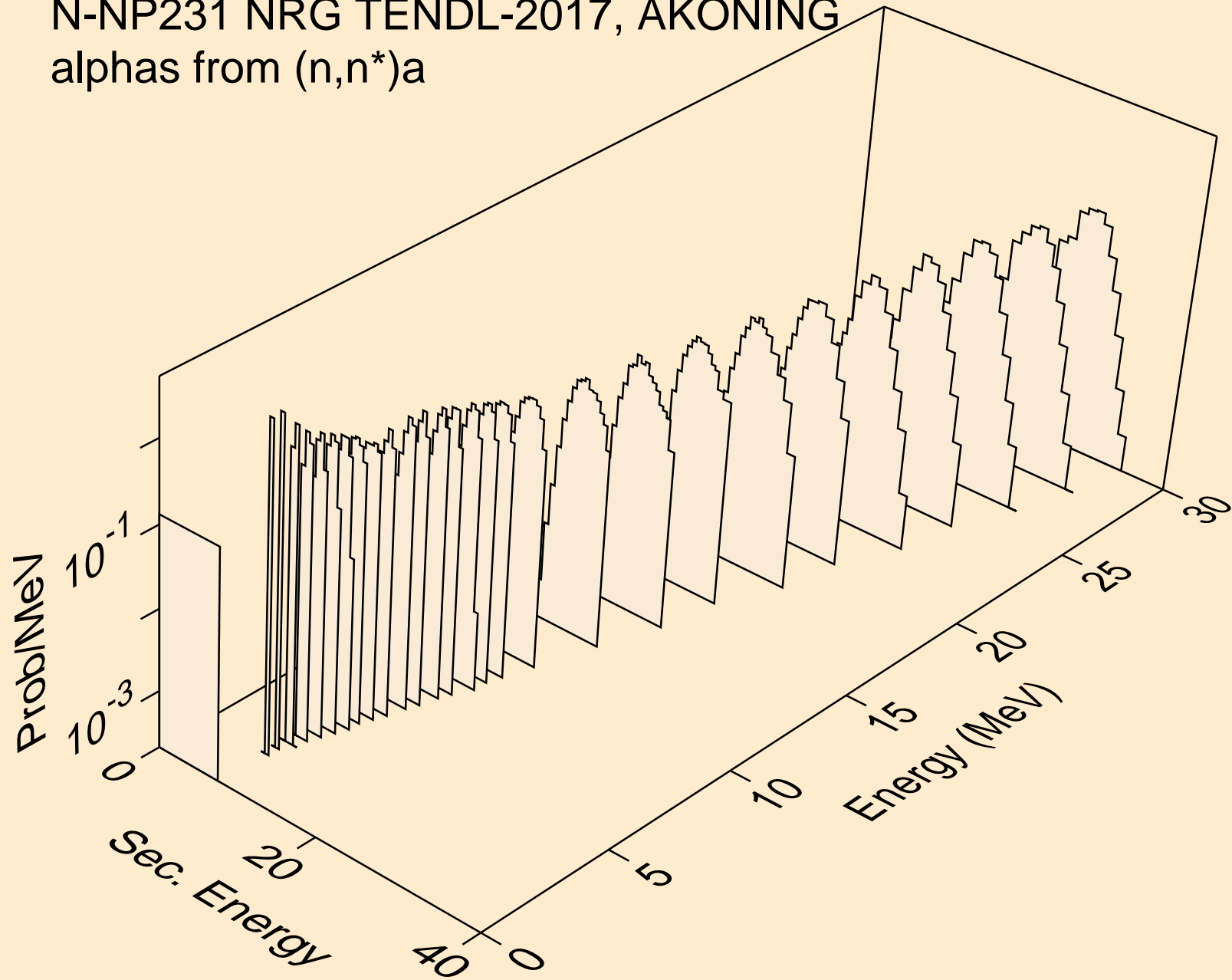
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he3s from (n,he3)



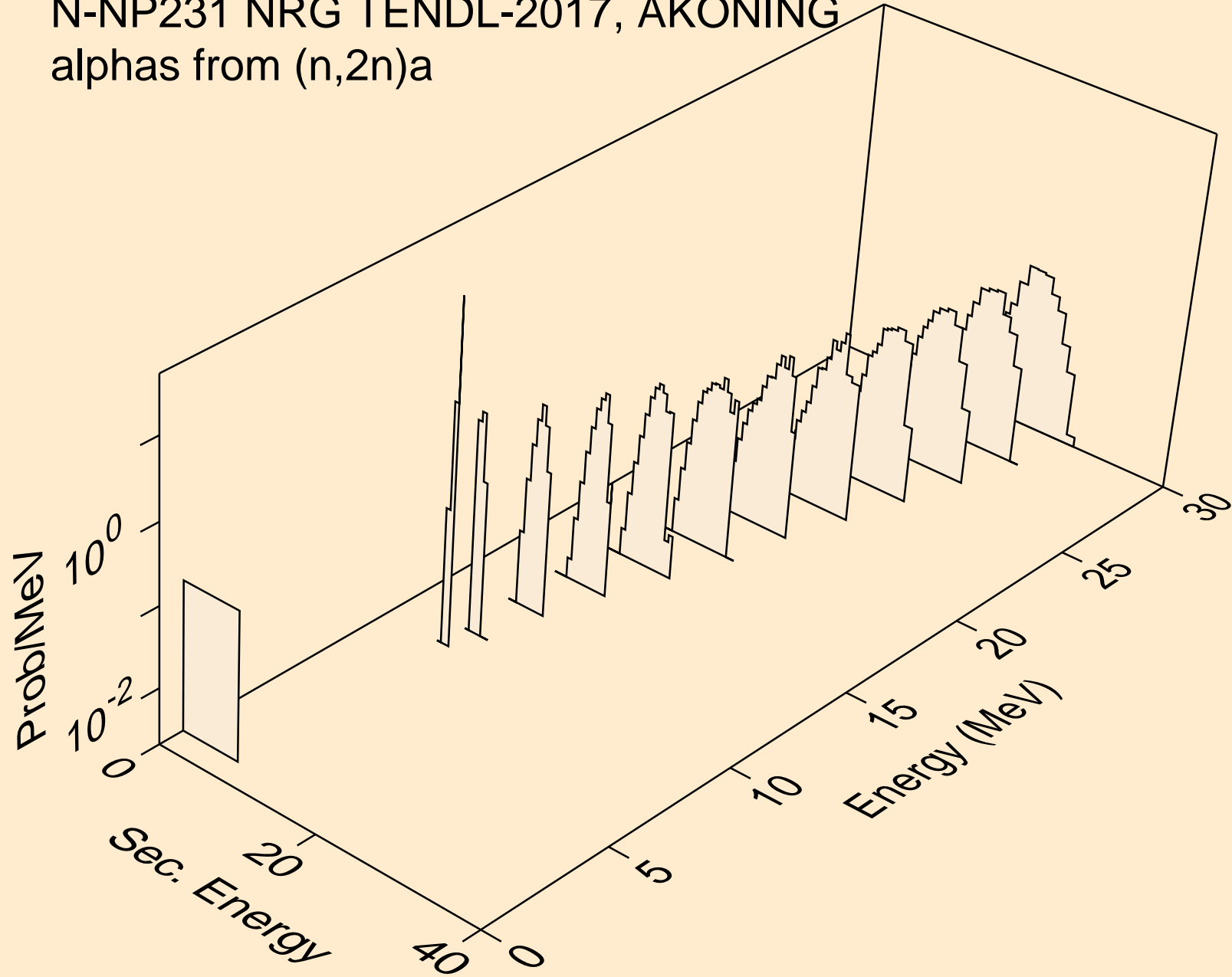
N-NP231 NRG TENDL-2017, AKONING  
alphas from (n,x)



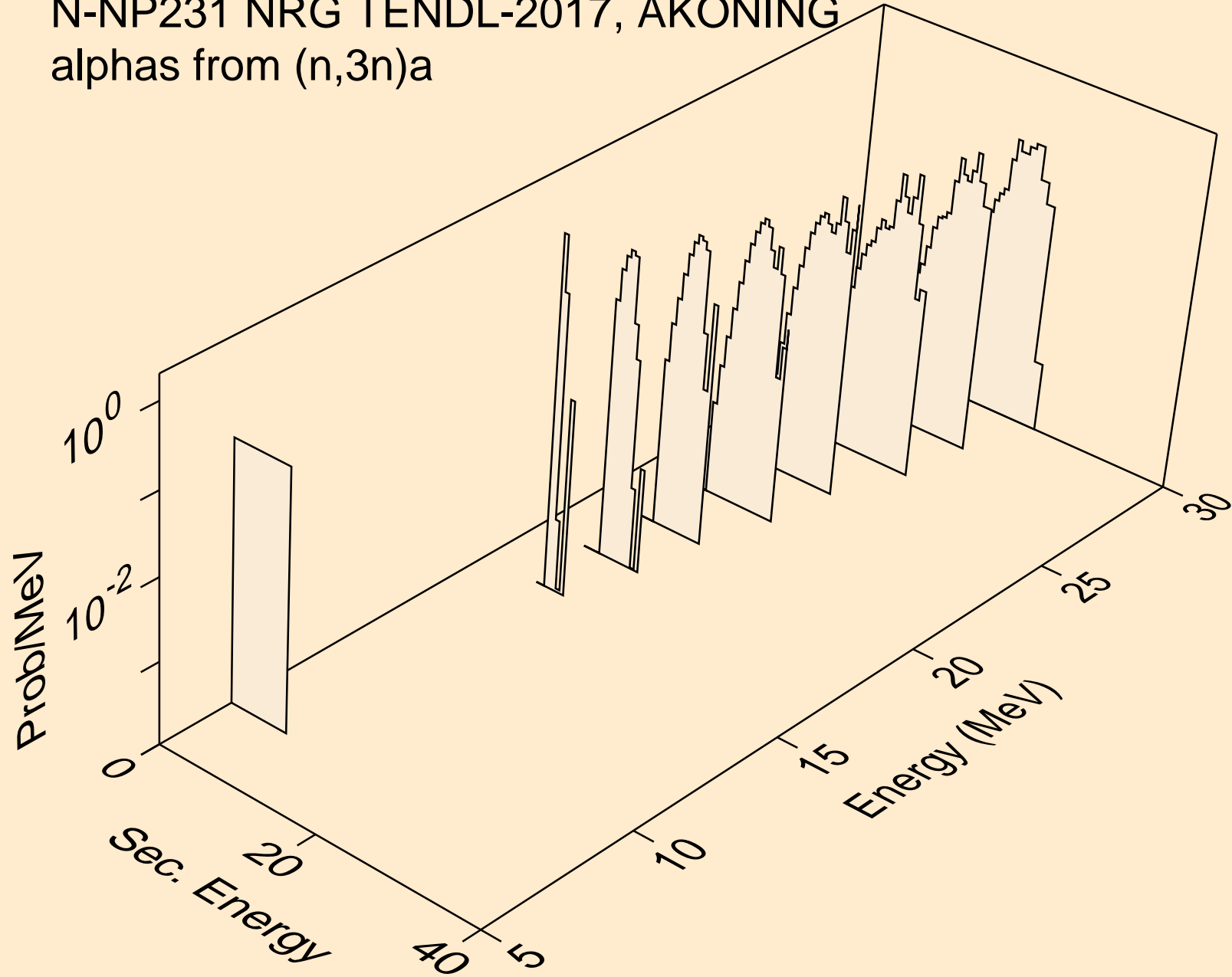
N-NP231 NRG TENDL-2017, AKONING  
alphas from (n,n\*)a



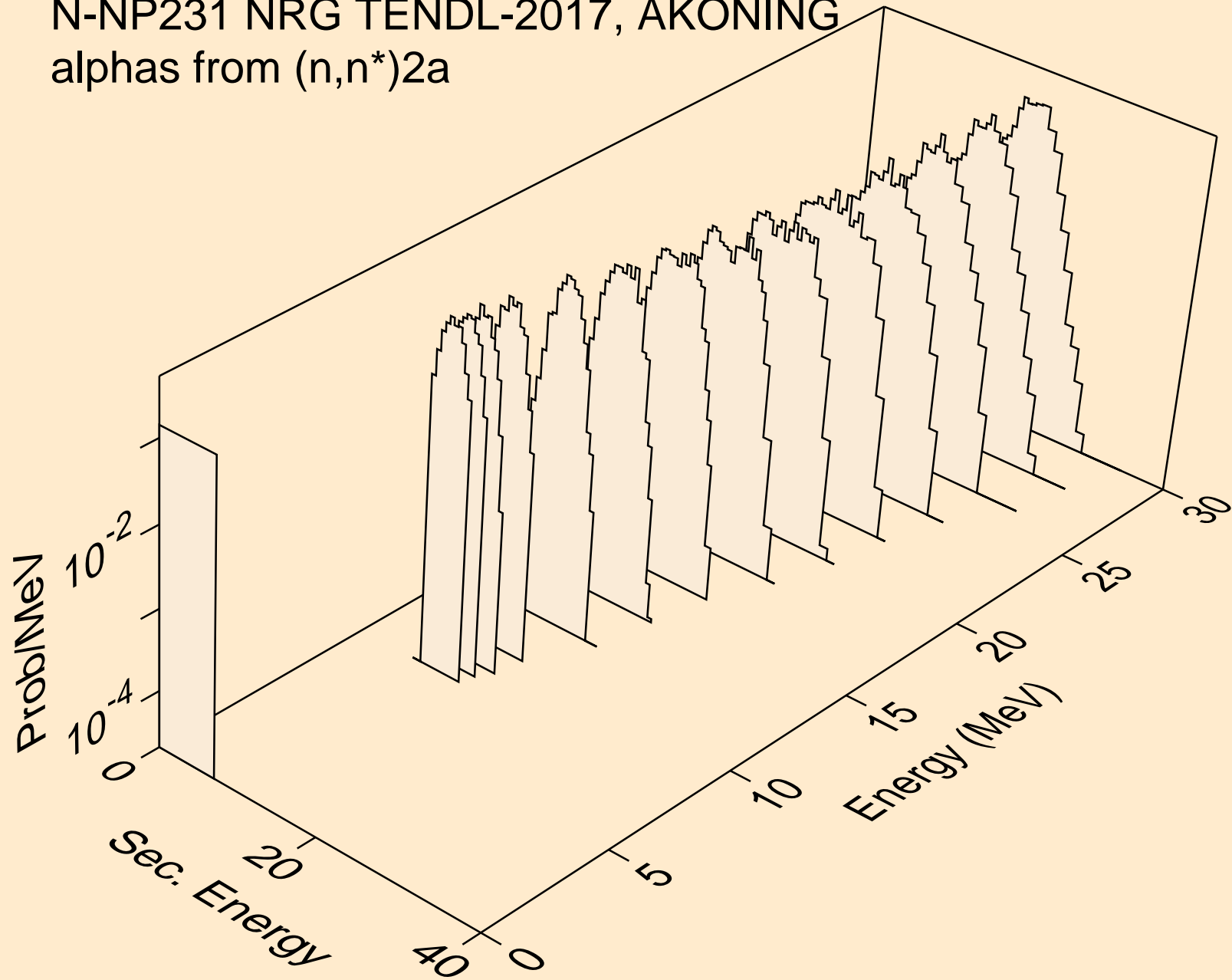
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alphas from (n,2n)a



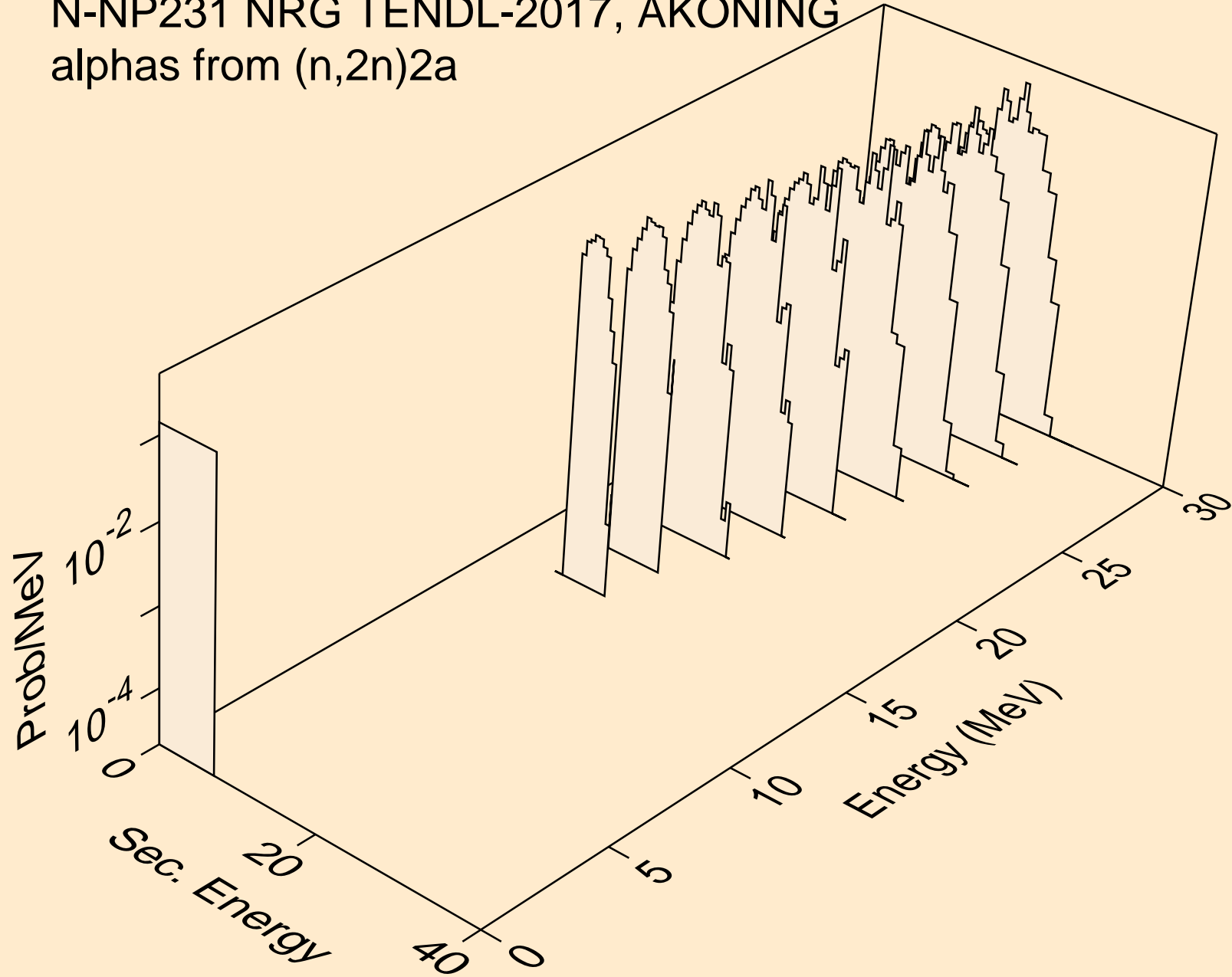
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alphas from (n,3n)a



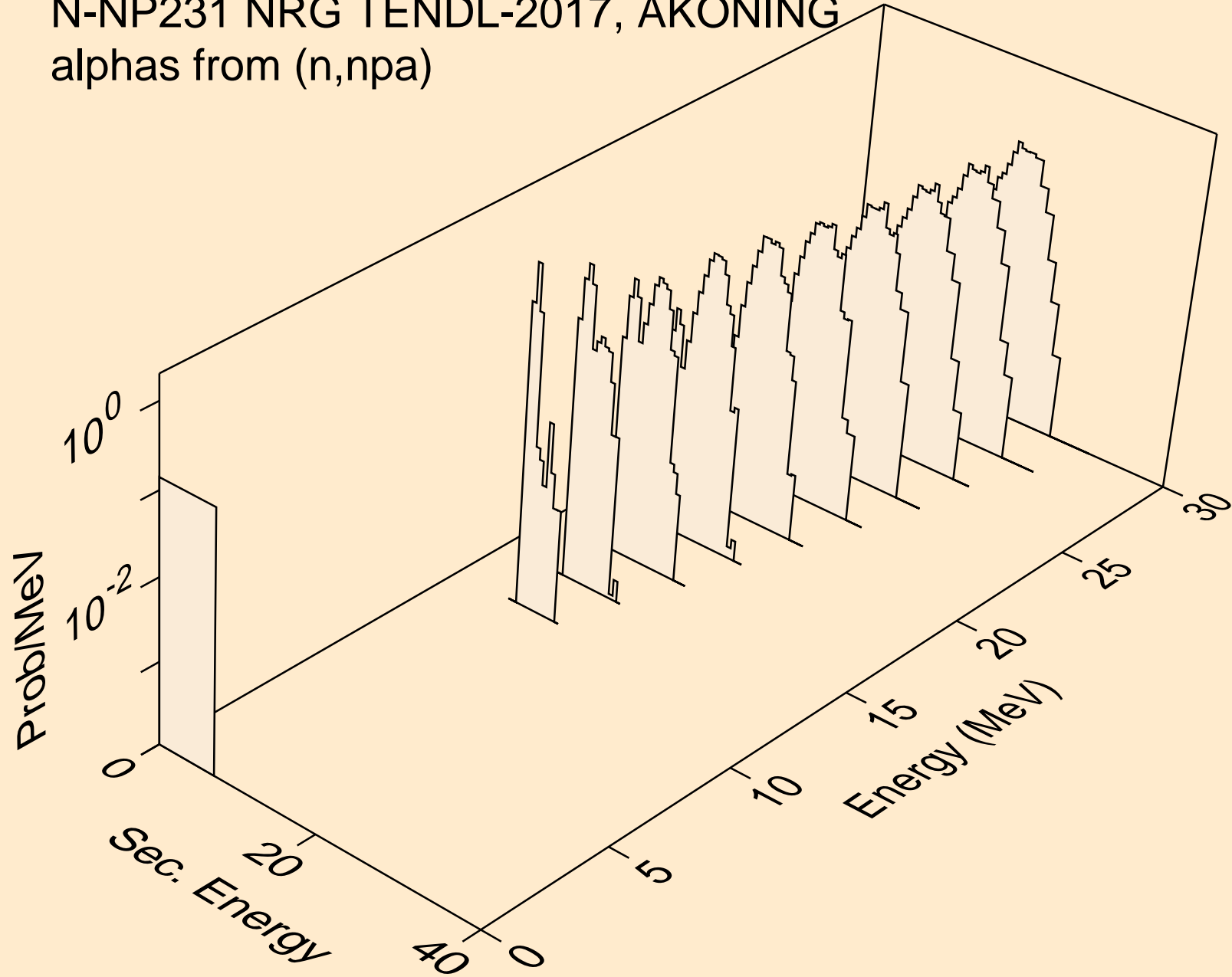
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alphas from (n,n\*)2a



N-NP231 NRG TENDL-2017, AKONING  
alphas from (n,2n)2a

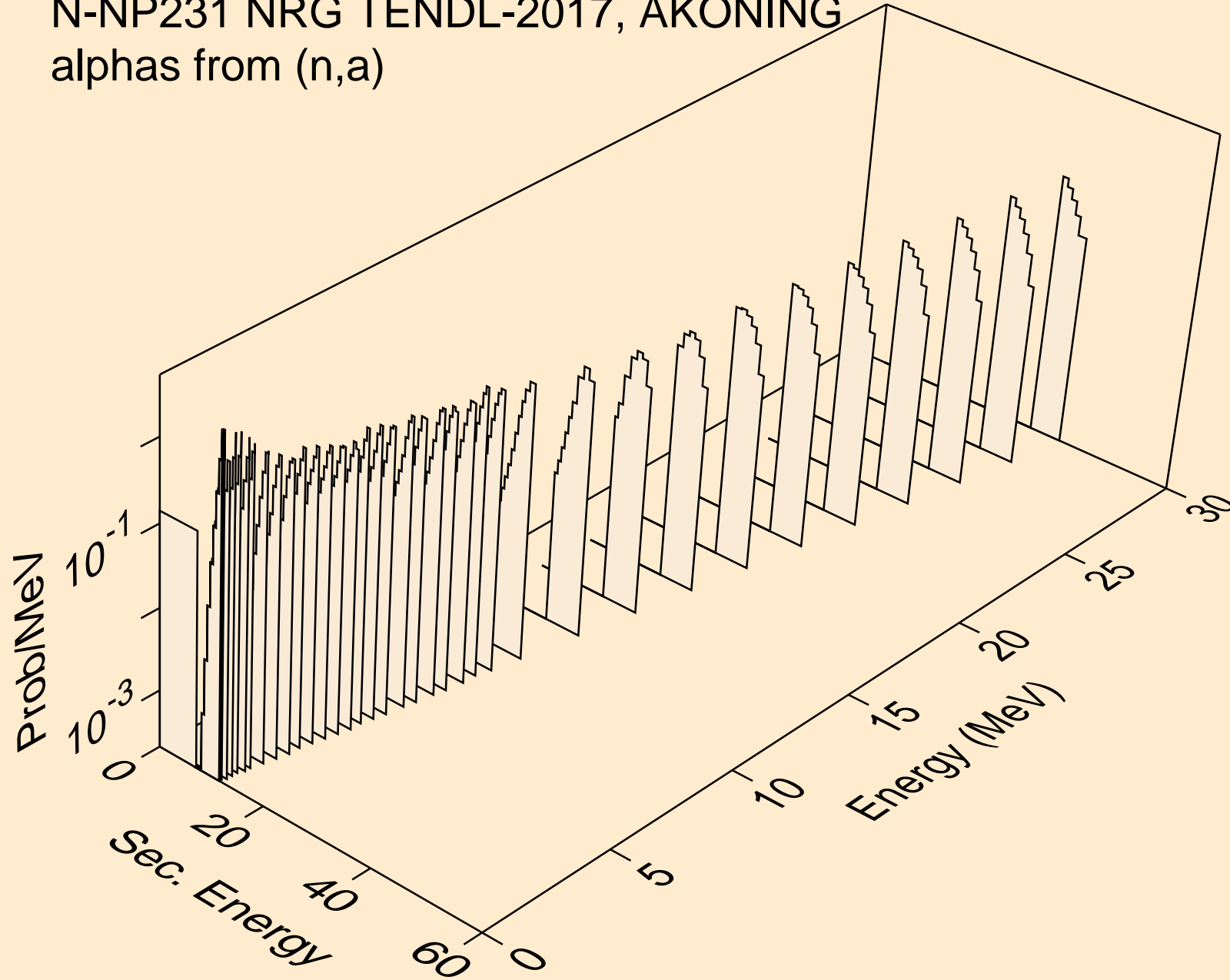


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alphas from (n,npa)

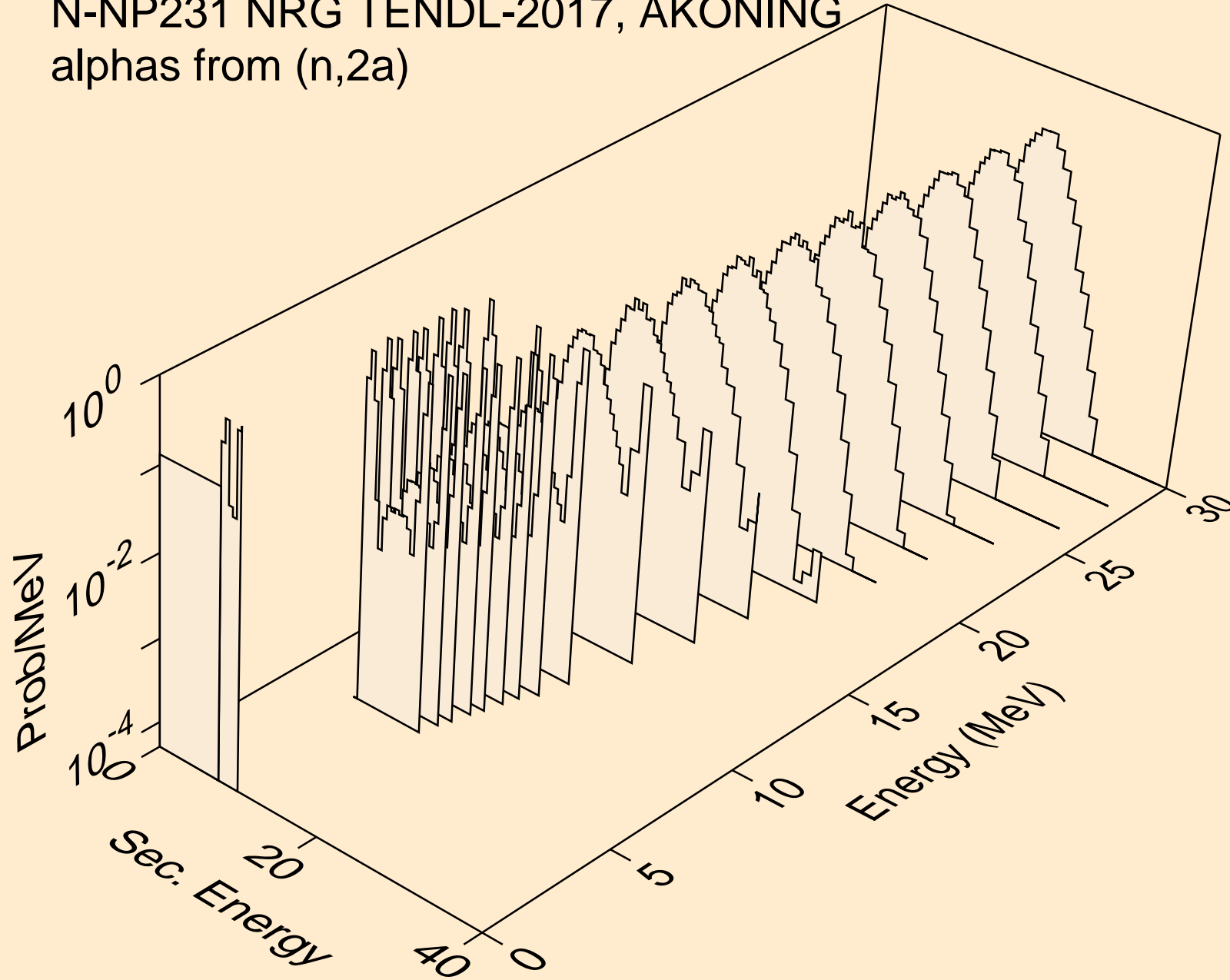




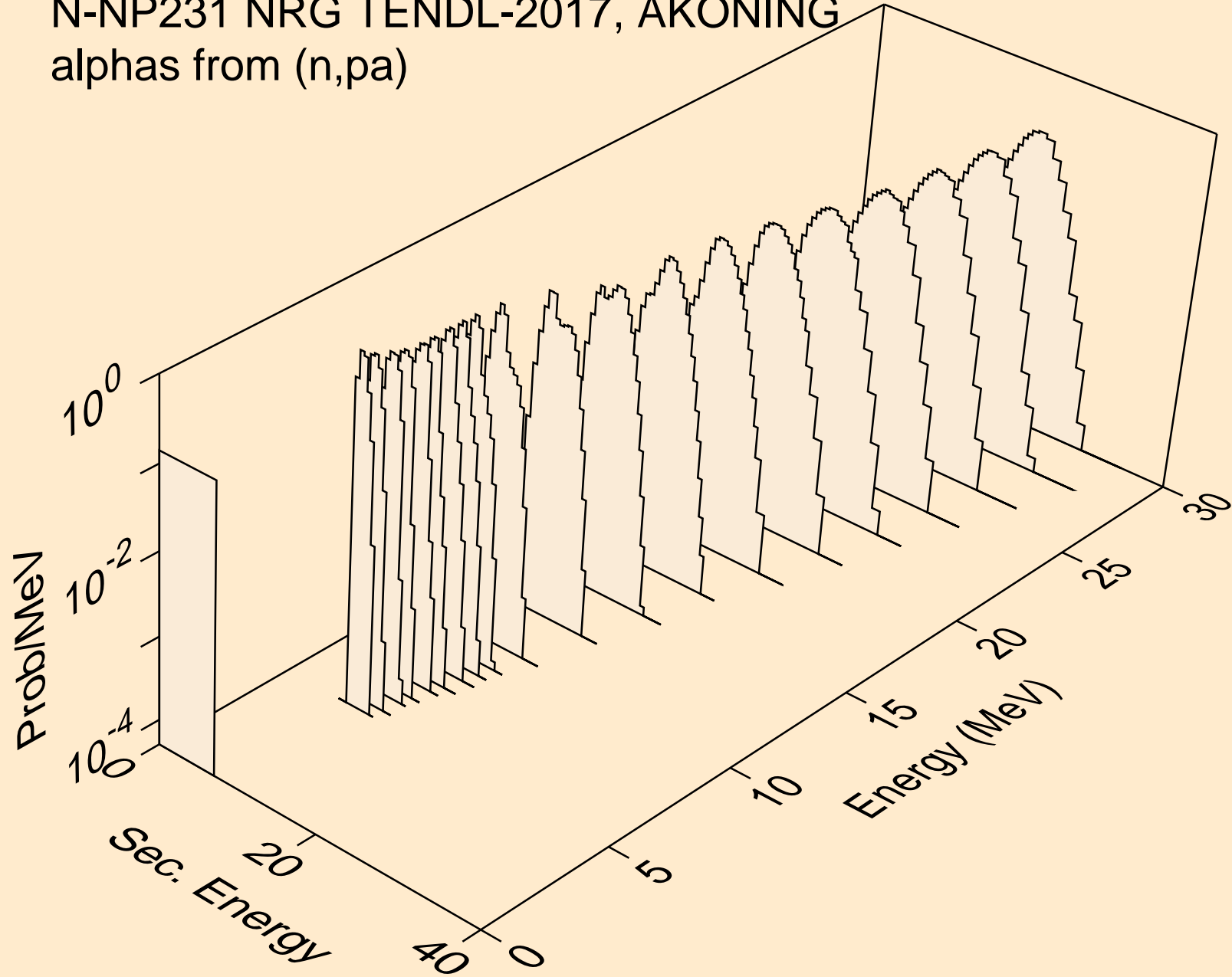
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alphas from (n,a)



N-NP231 NRG TENDL-2017, AKONING  
alphas from (n,2a)



N-NP231 NRG TENDL-2017, AKONING  
alphas from (n,pa)



N-NP231 NRG TENDL-2017, AKONING  
alphas from (n,da)

