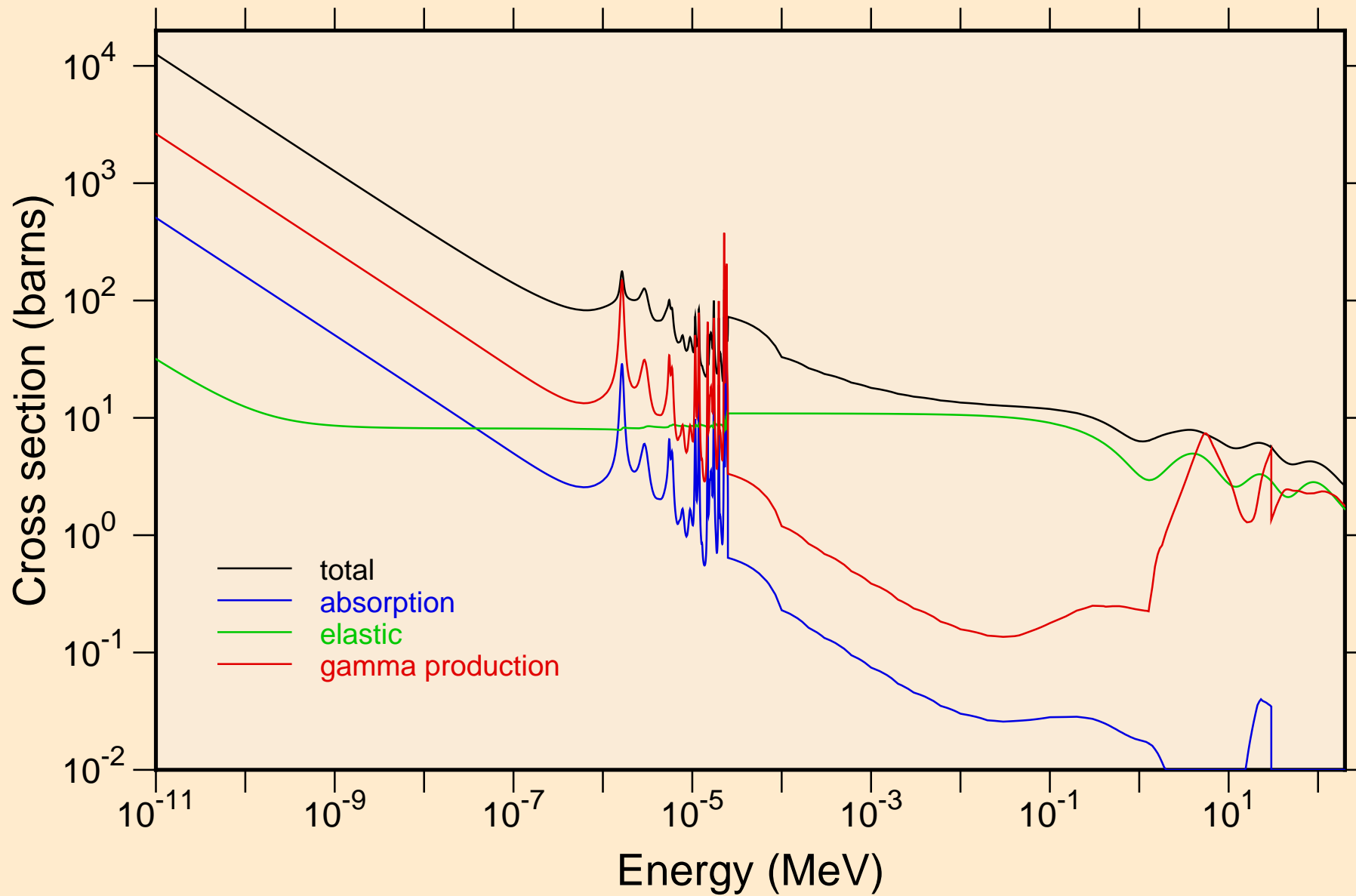


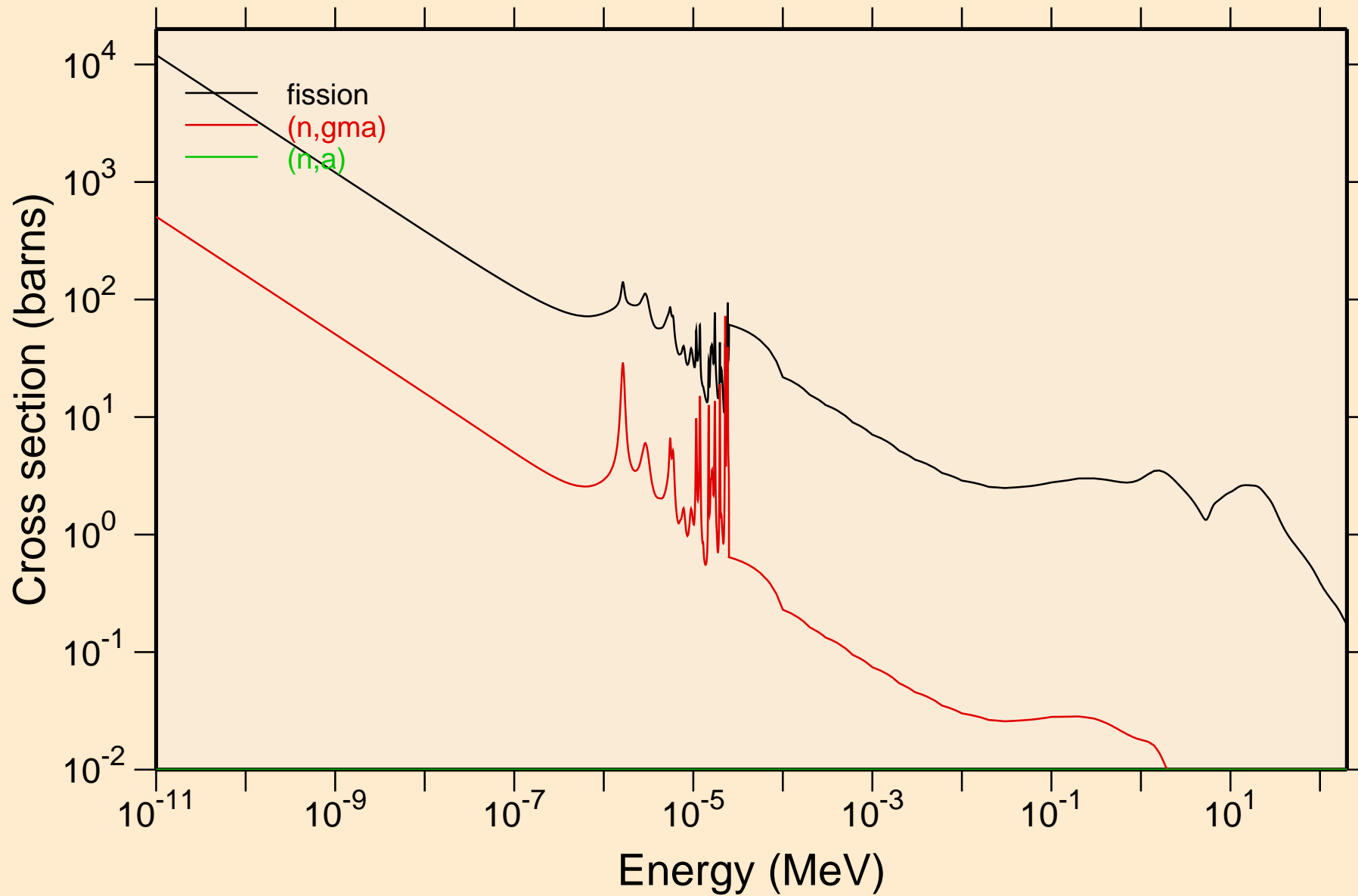
# N-U231 NRG TENDL-2017, AKONING

## Principal cross sections



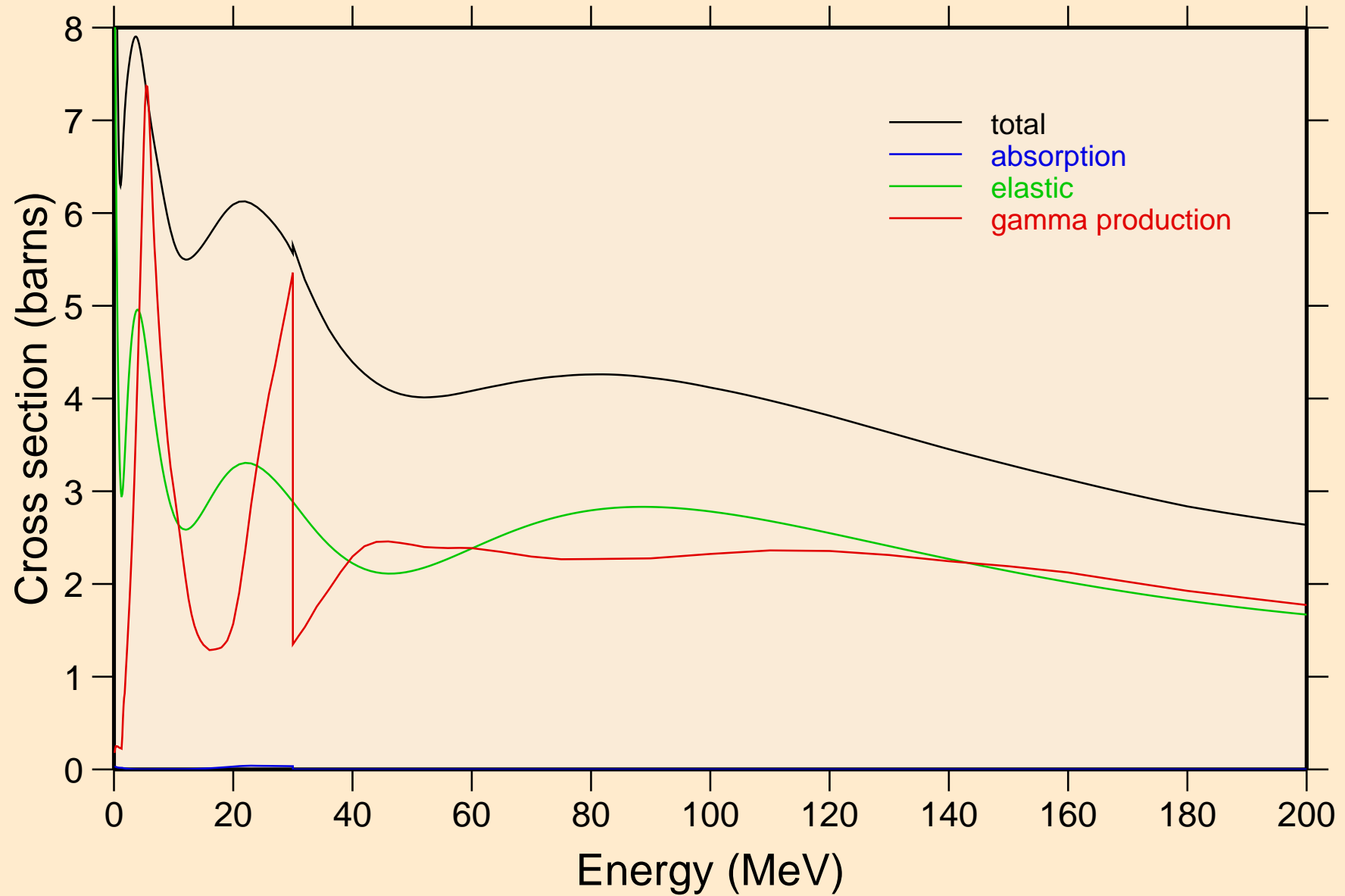
# N-U231 NRG TENDL-2017, AKONING

## Non-threshold reactions



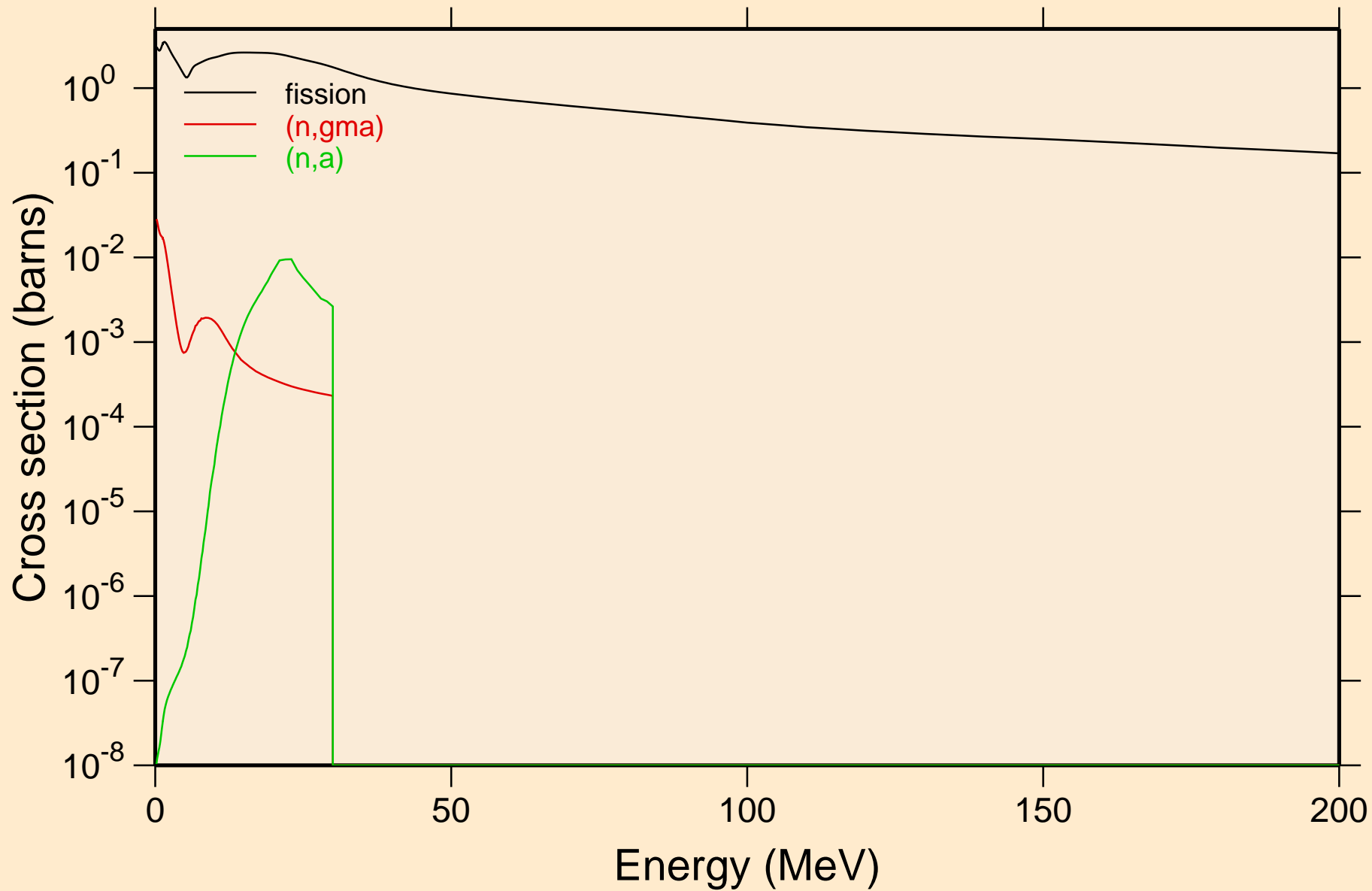
# N-U231 NRG TENDL-2017, AKONING

## Principal cross sections



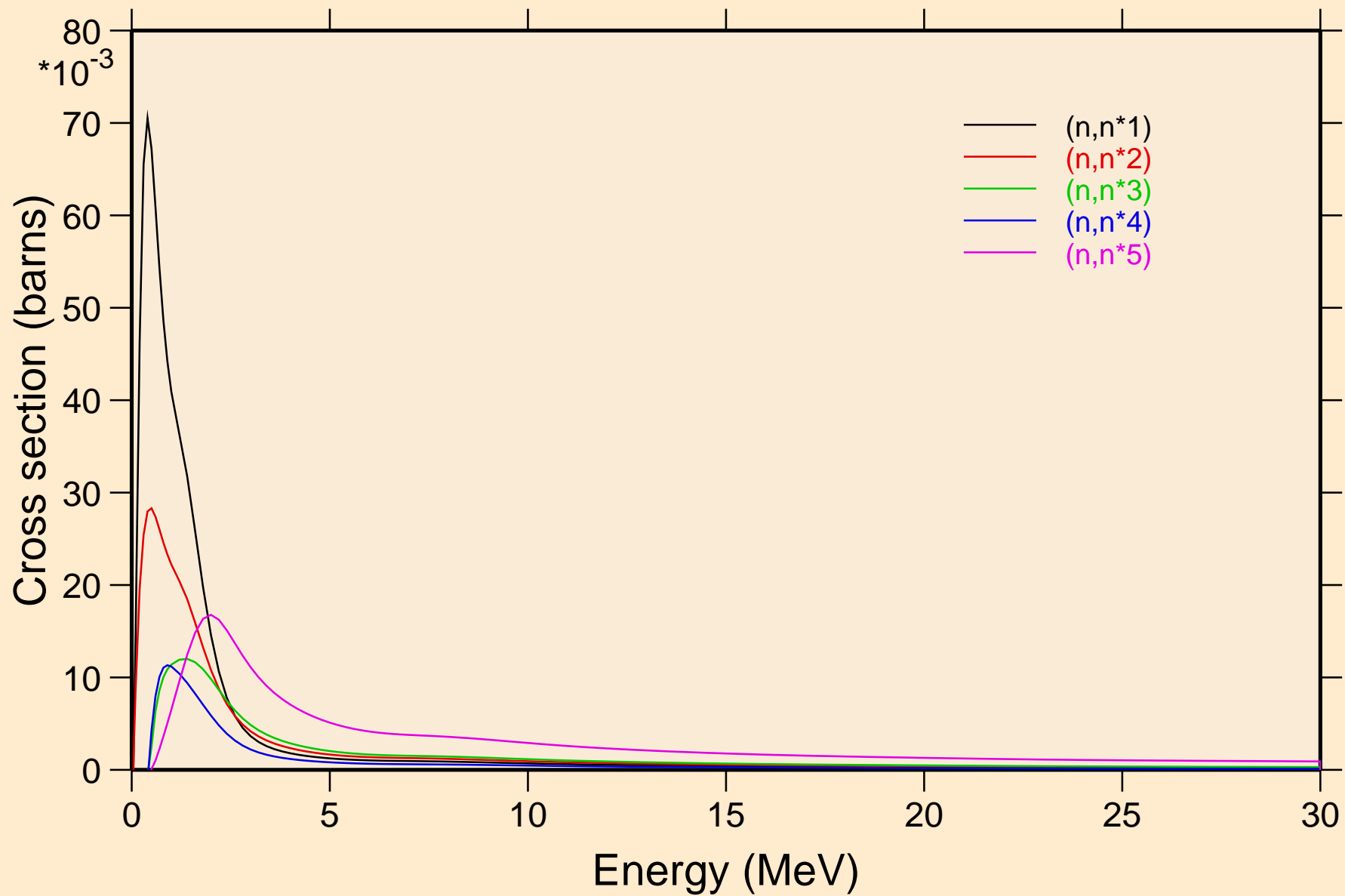
# N-U231 NRG TENDL-2017, AKONING

## Non-threshold reactions



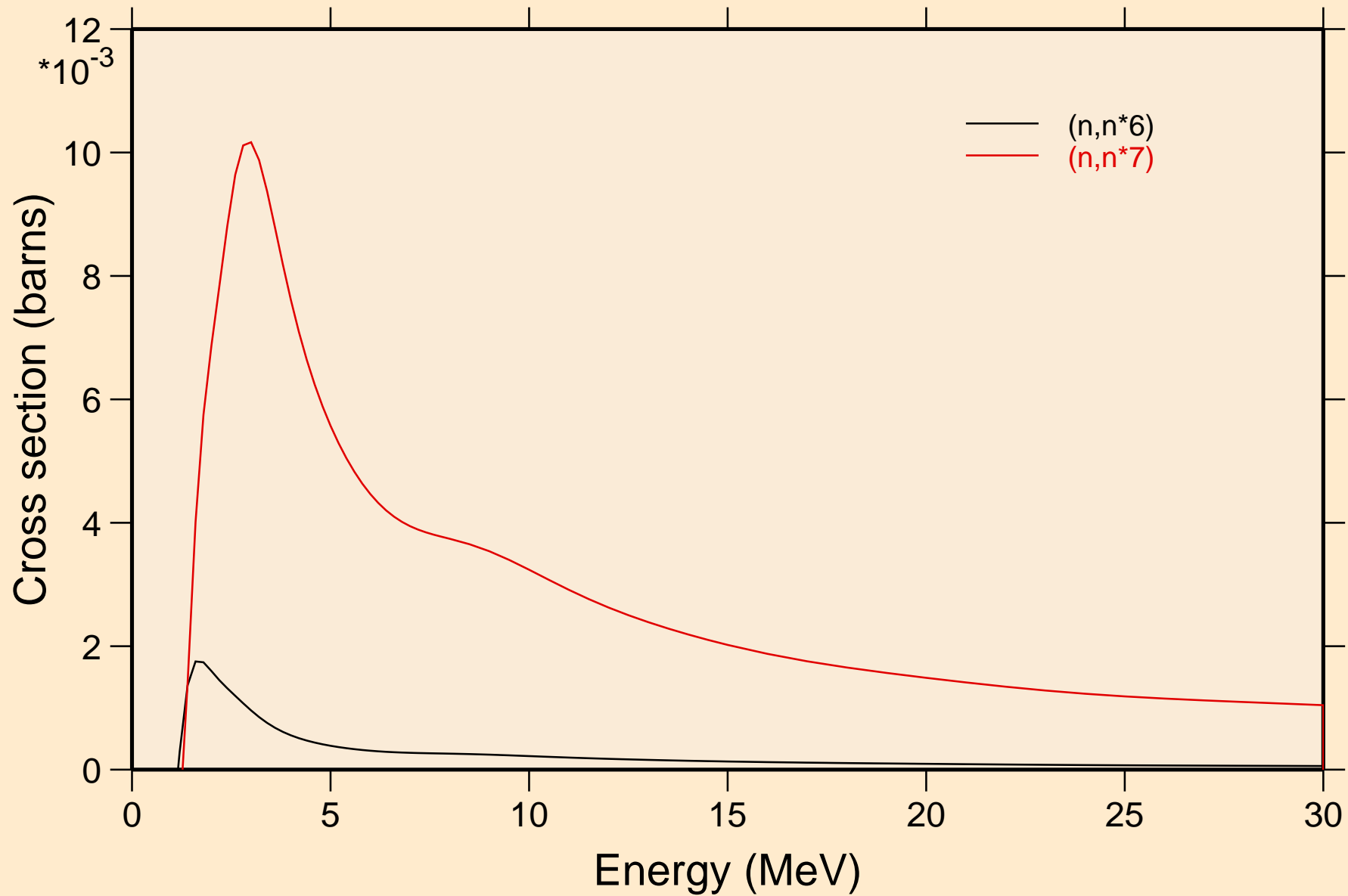
# N-U231 NRG TENDL-2017, AKONING

## Inelastic levels



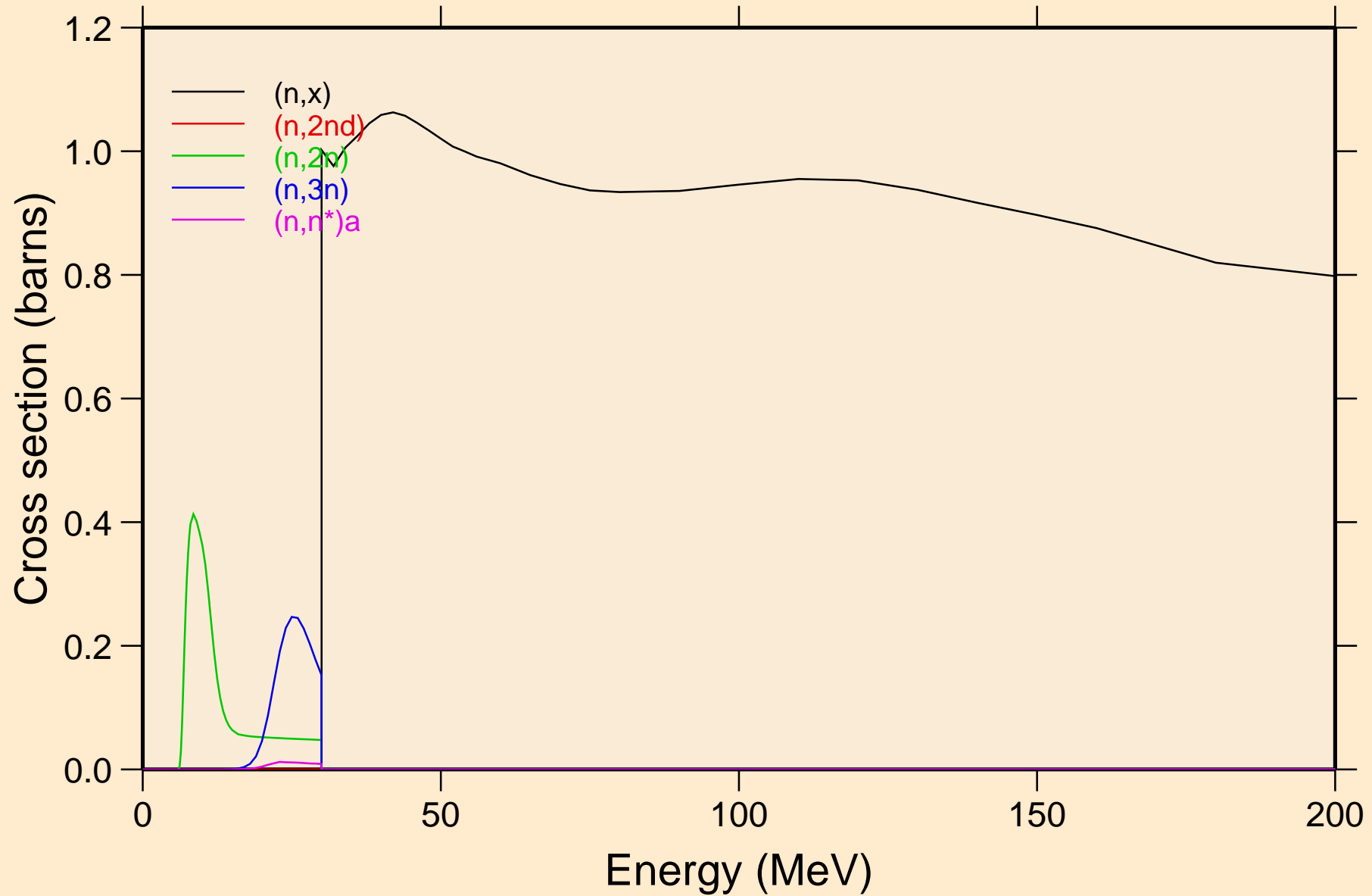
# N-U231 NRG TENDL-2017, AKONING

## Inelastic levels



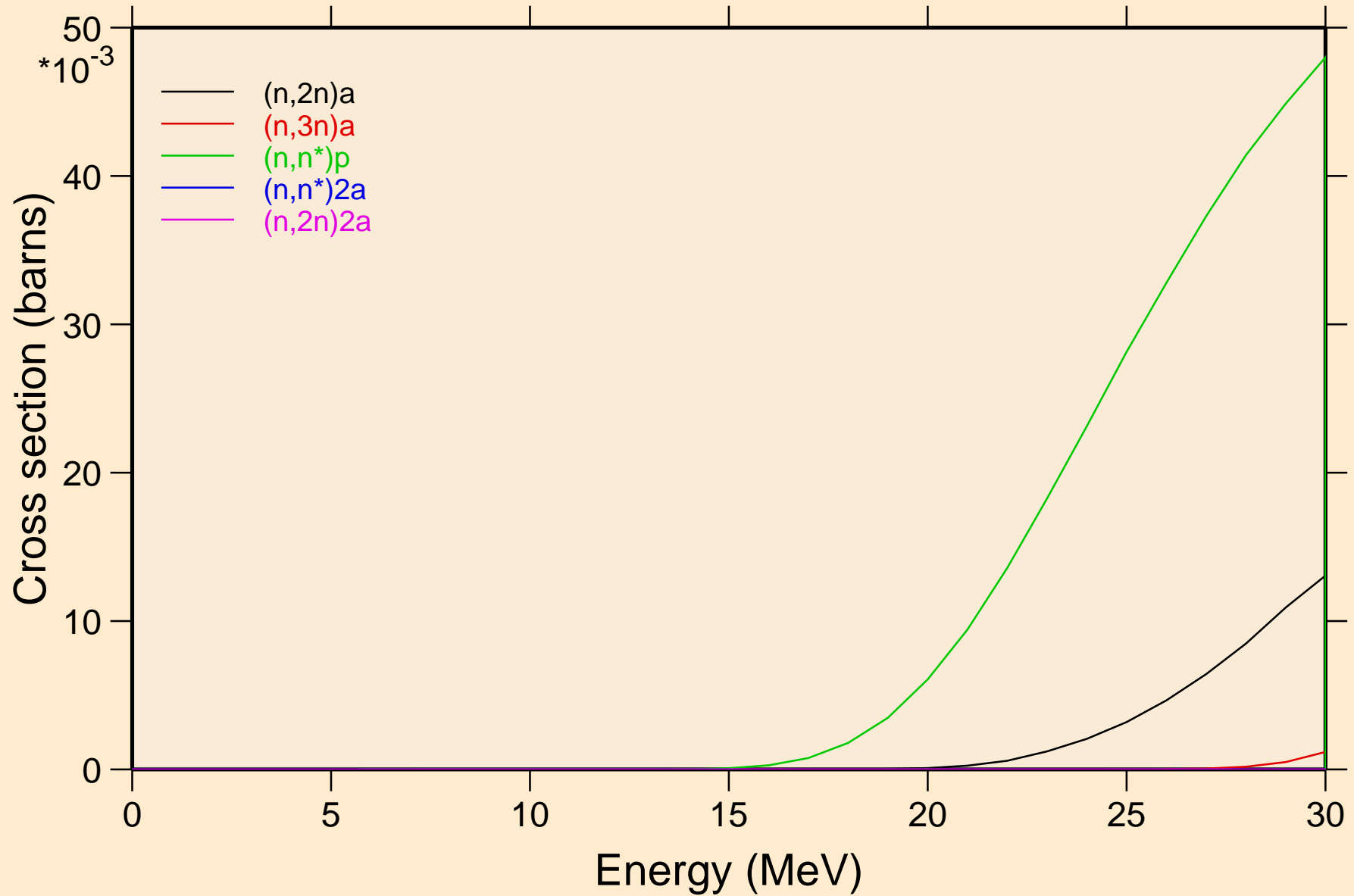
# N-U231 NRG TENDL-2017, AKONING

## Threshold reactions



# N-U231 NRG TENDL-2017, AKONING

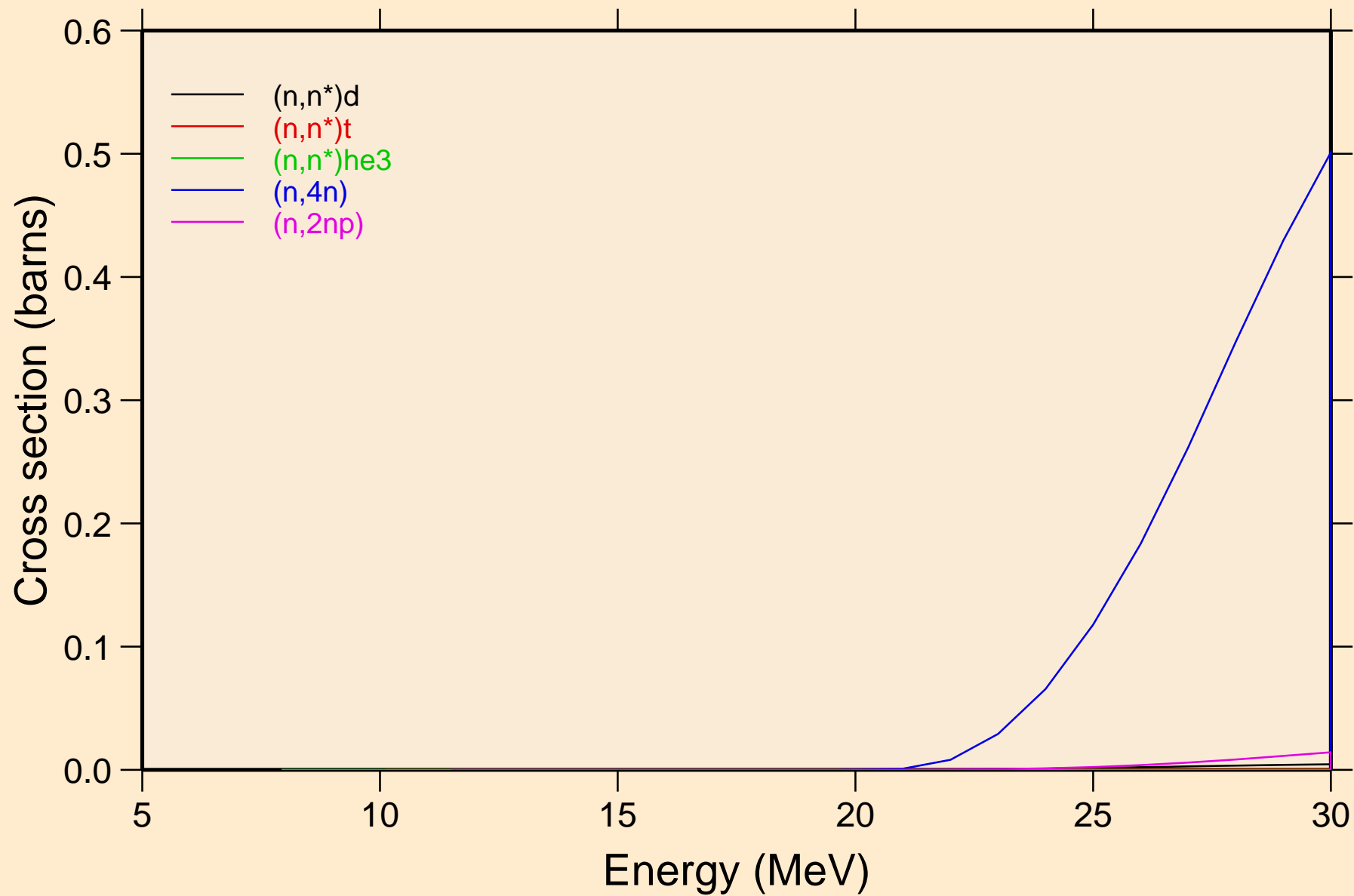
## Threshold reactions





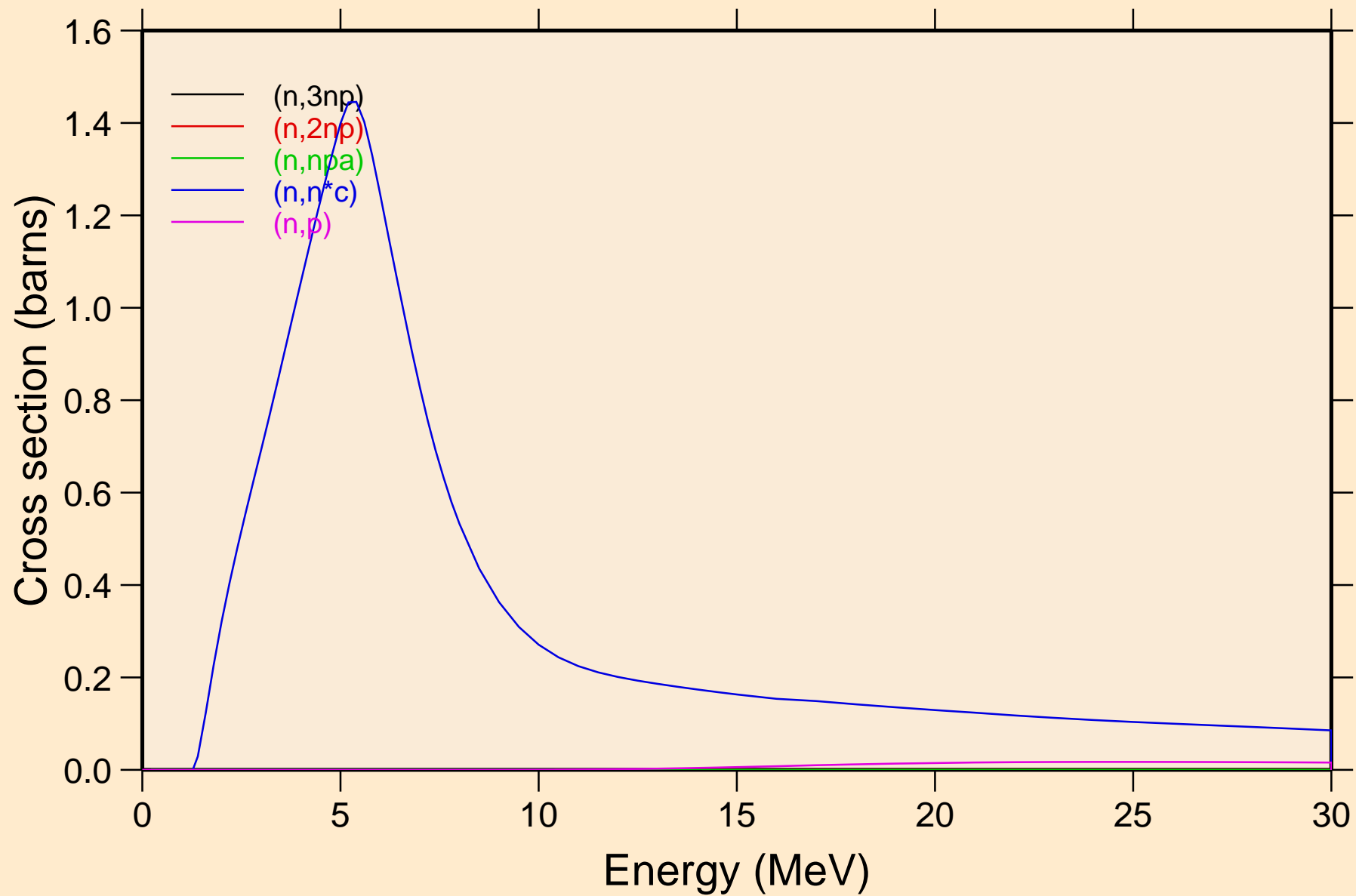
# N-U231 NRG TENDL-2017, AKONING

## Threshold reactions



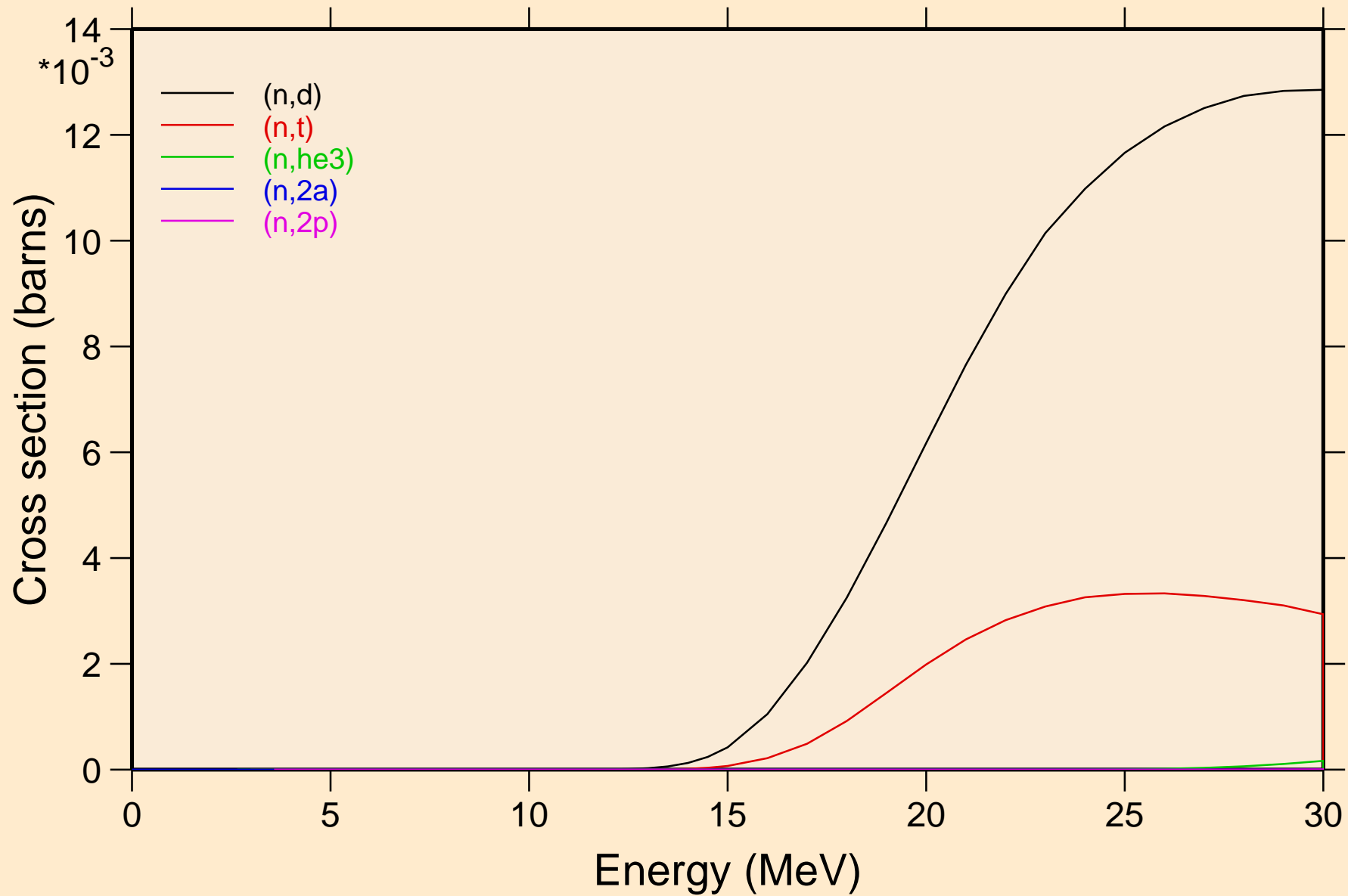
# N-U231 NRG TENDL-2017, AKONING

## Threshold reactions



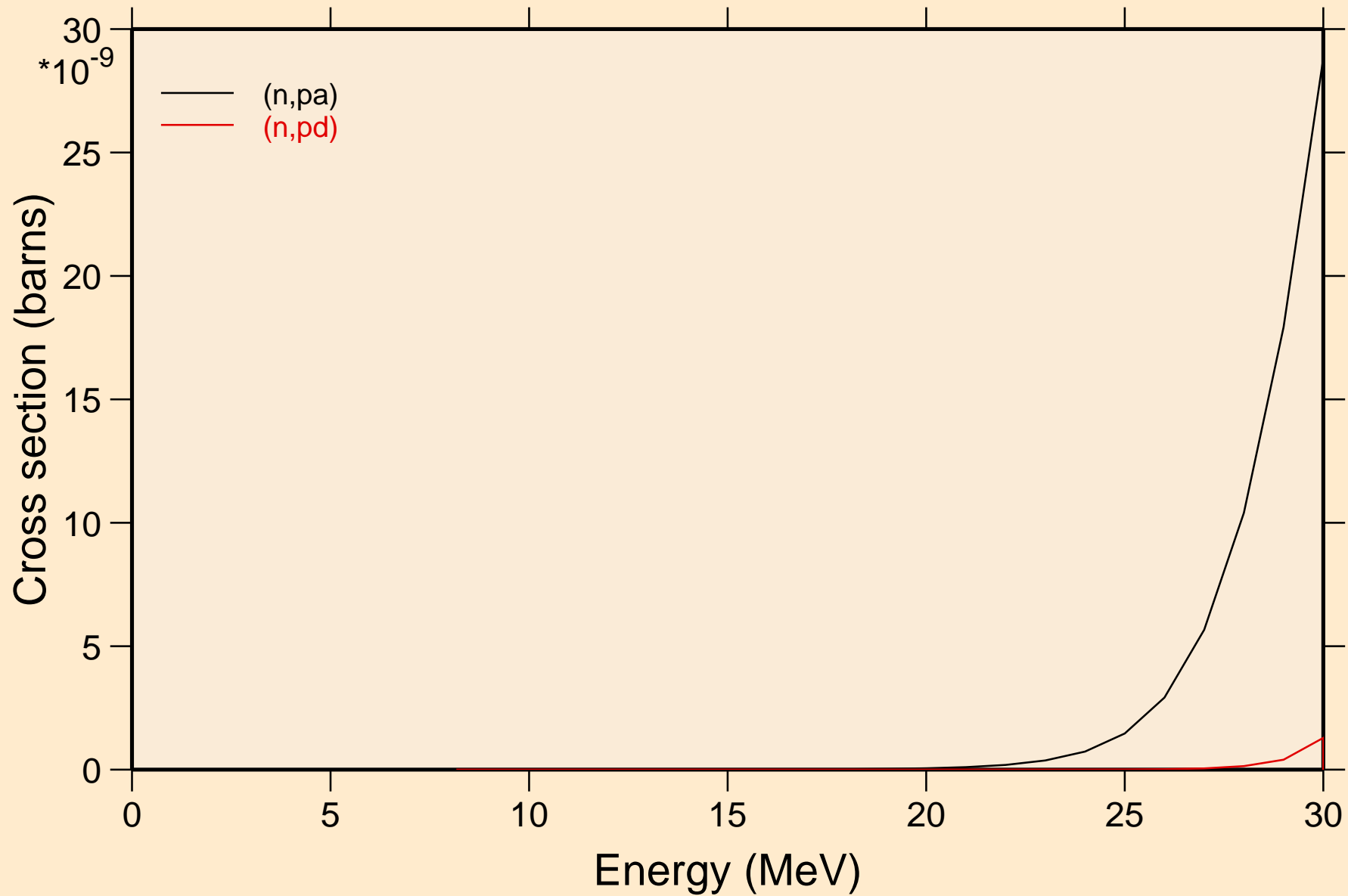
# N-U231 NRG TENDL-2017, AKONING

## Threshold reactions

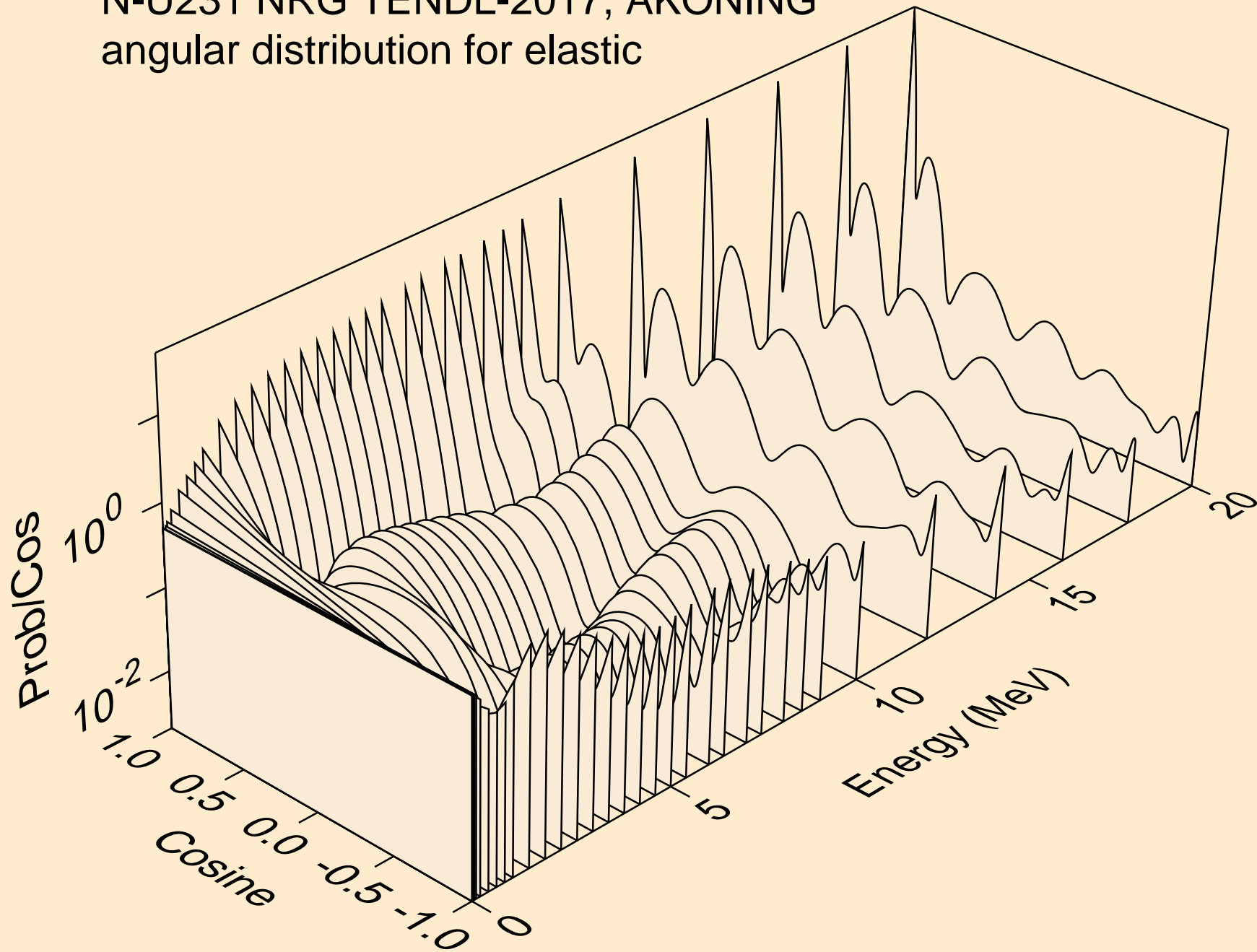


# N-U231 NRG TENDL-2017, AKONING

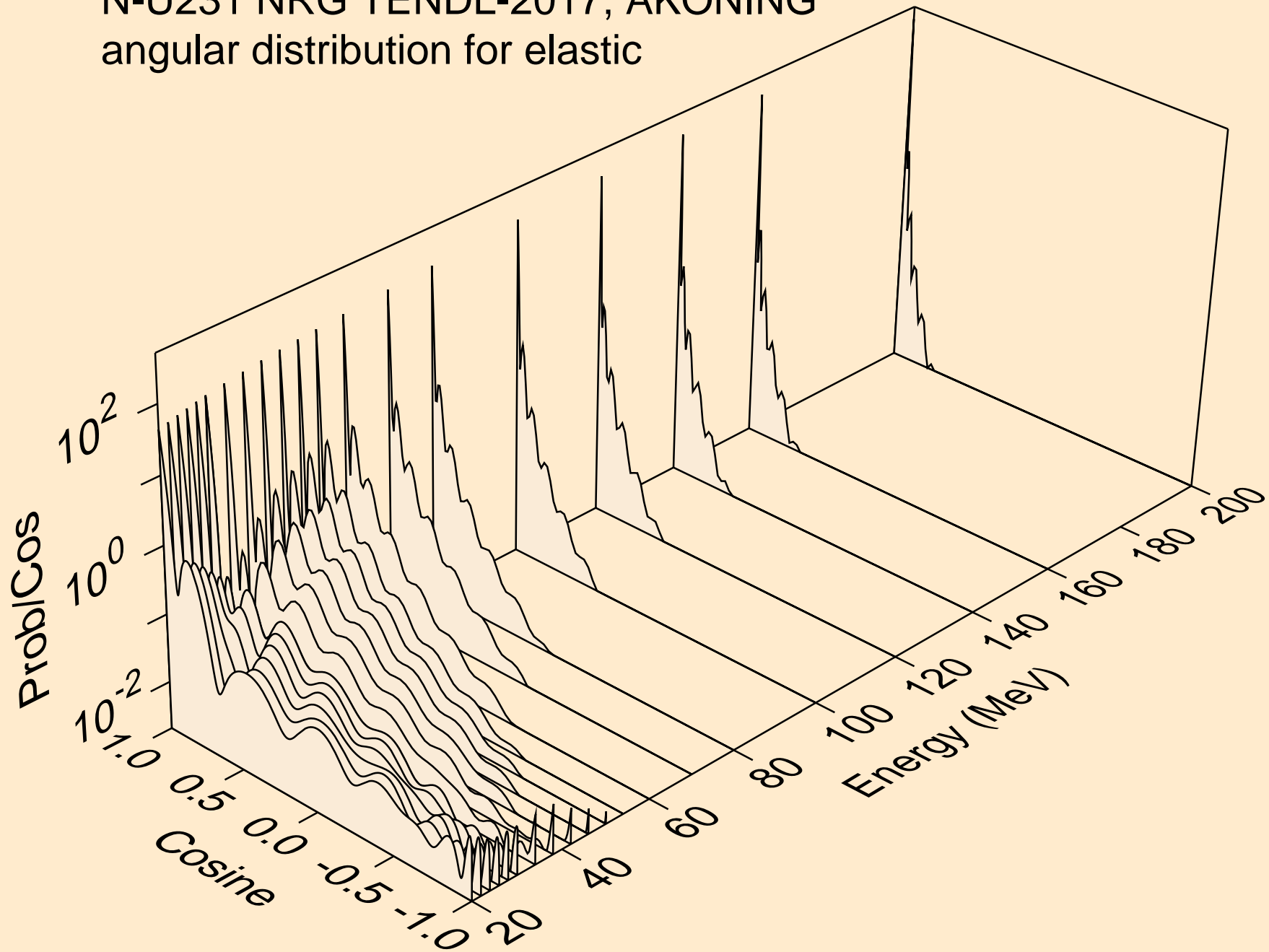
## Threshold reactions



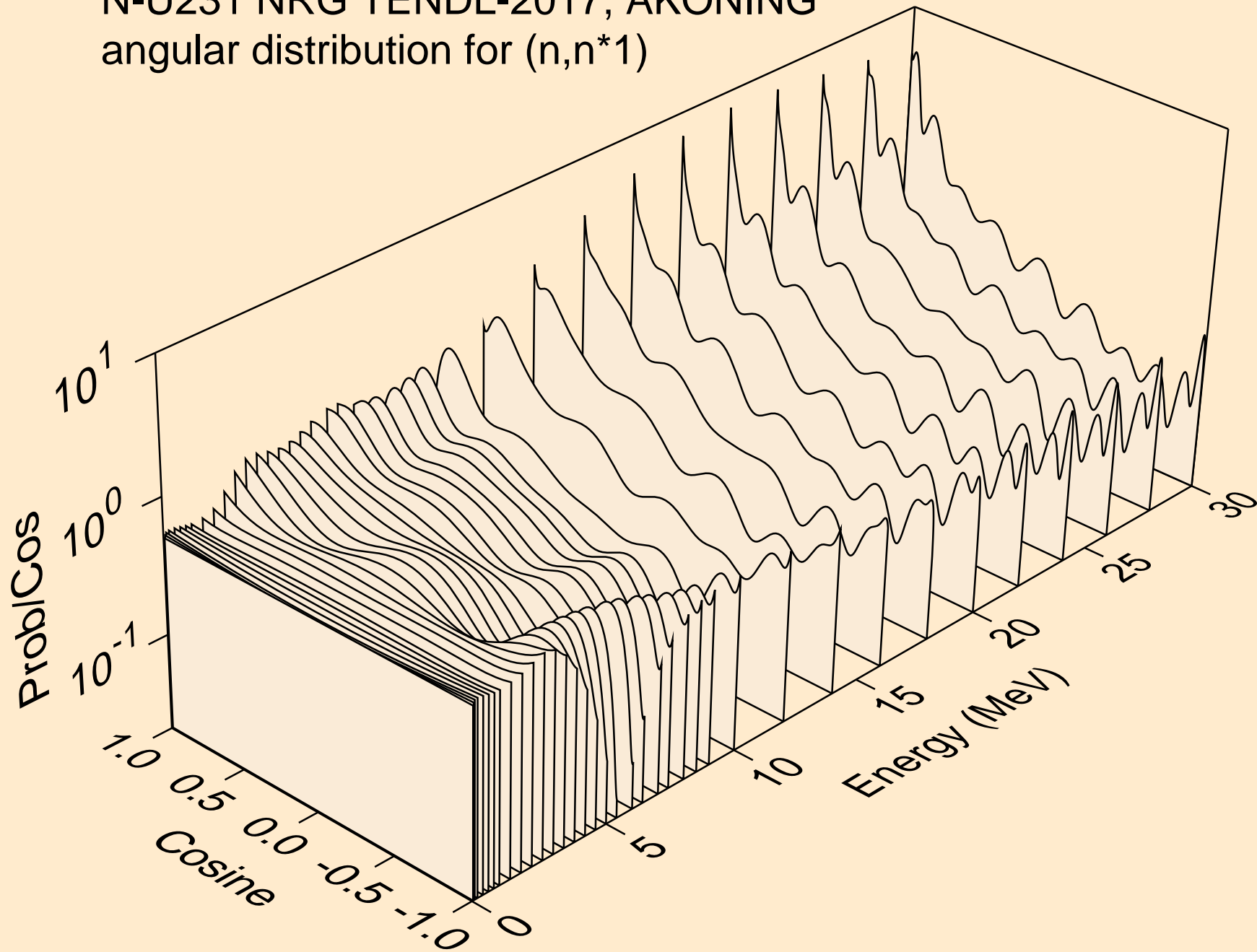
N-U231 NRG TENDL-2017, AKONING  
angular distribution for elastic



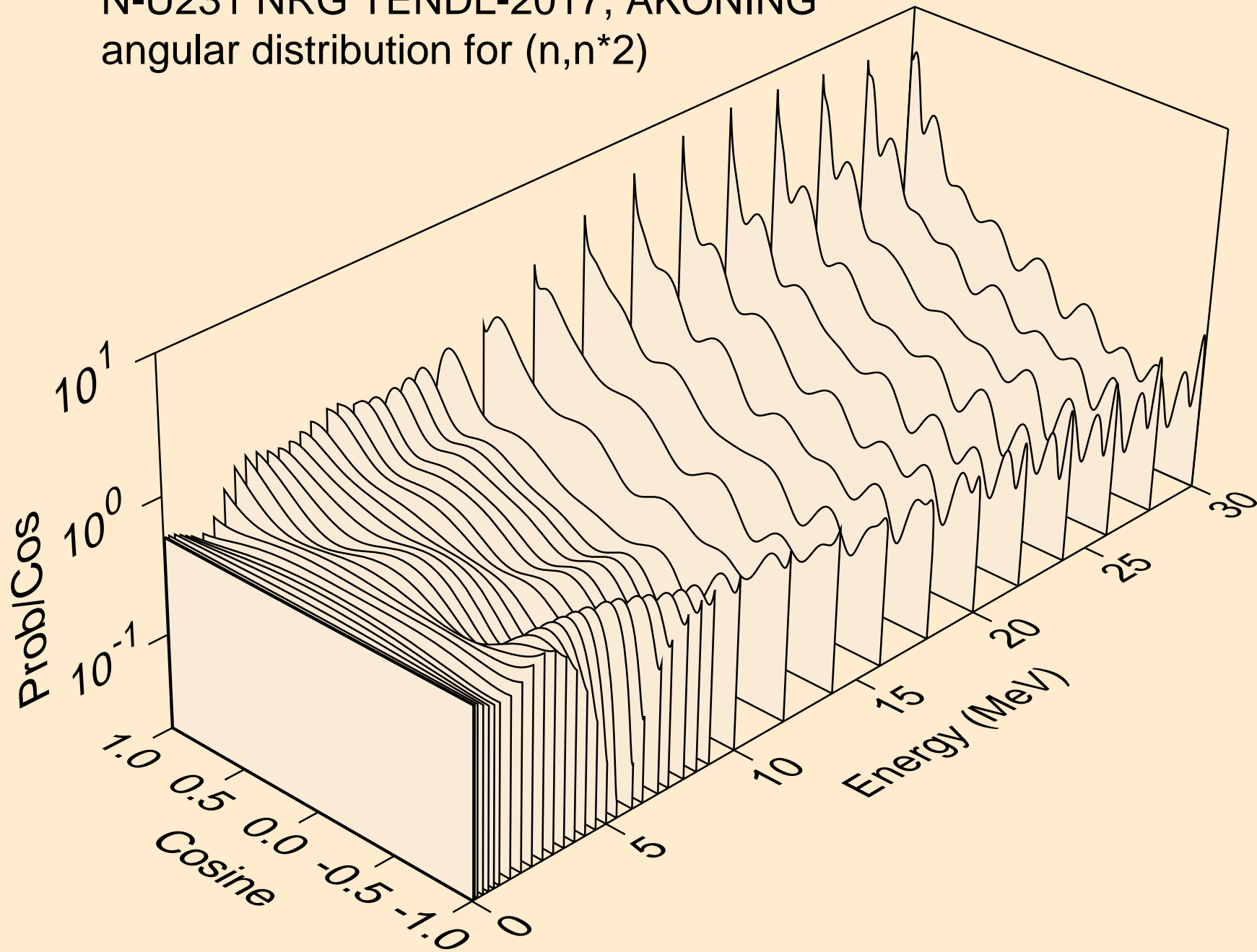
N-U231 NRG TENDL-2017, AKONING  
angular distribution for elastic



N-U231 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*1)

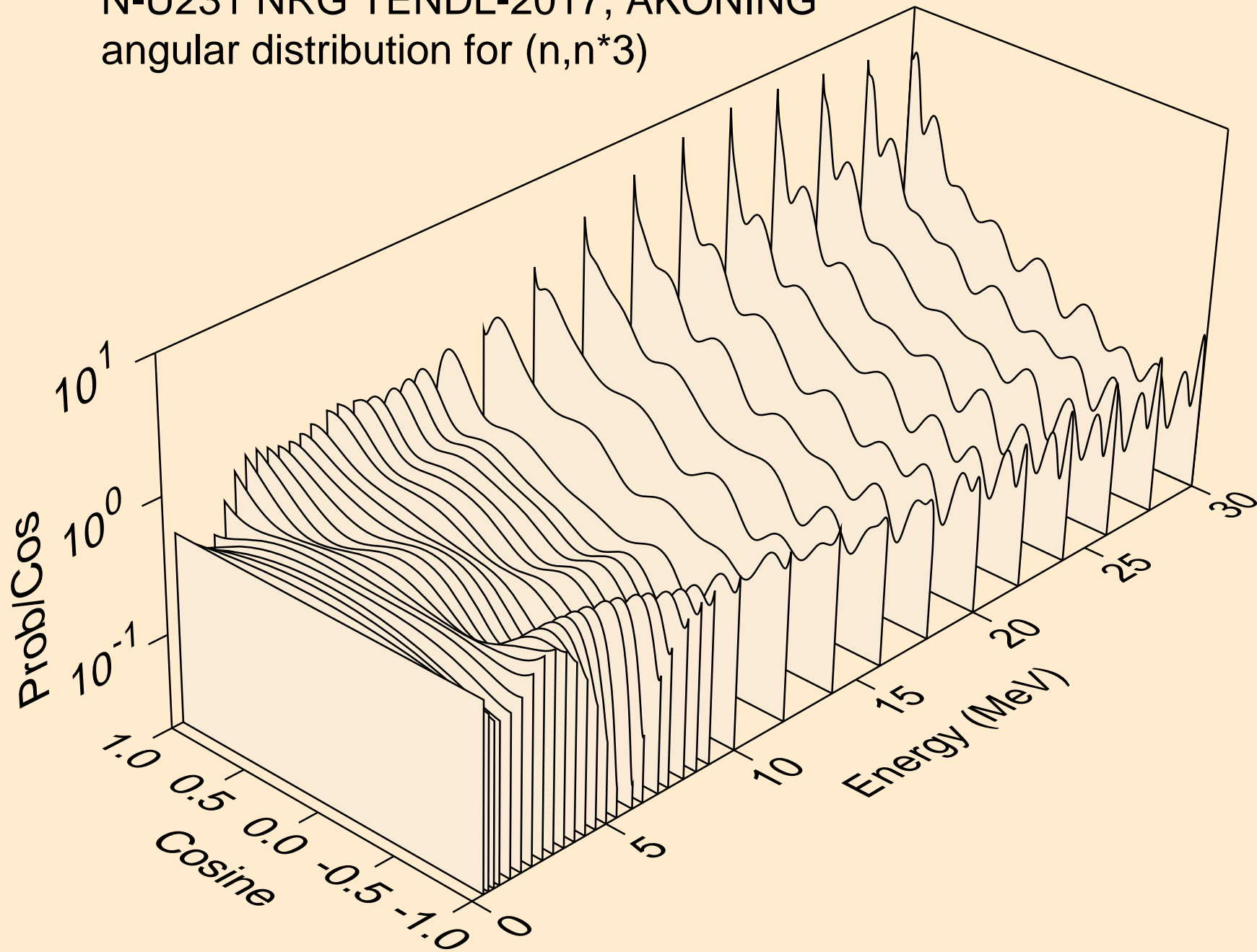


N-U231 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*2)

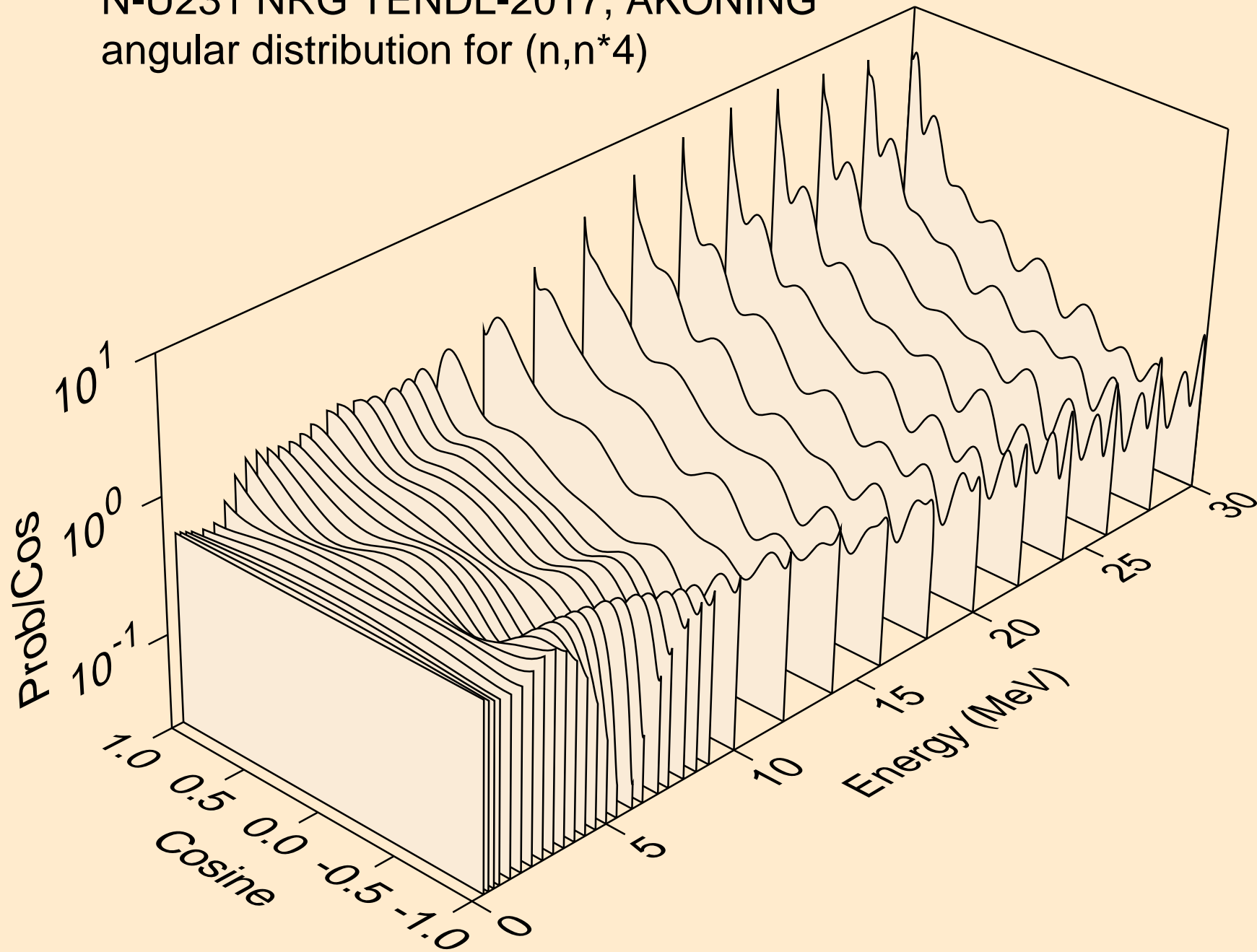




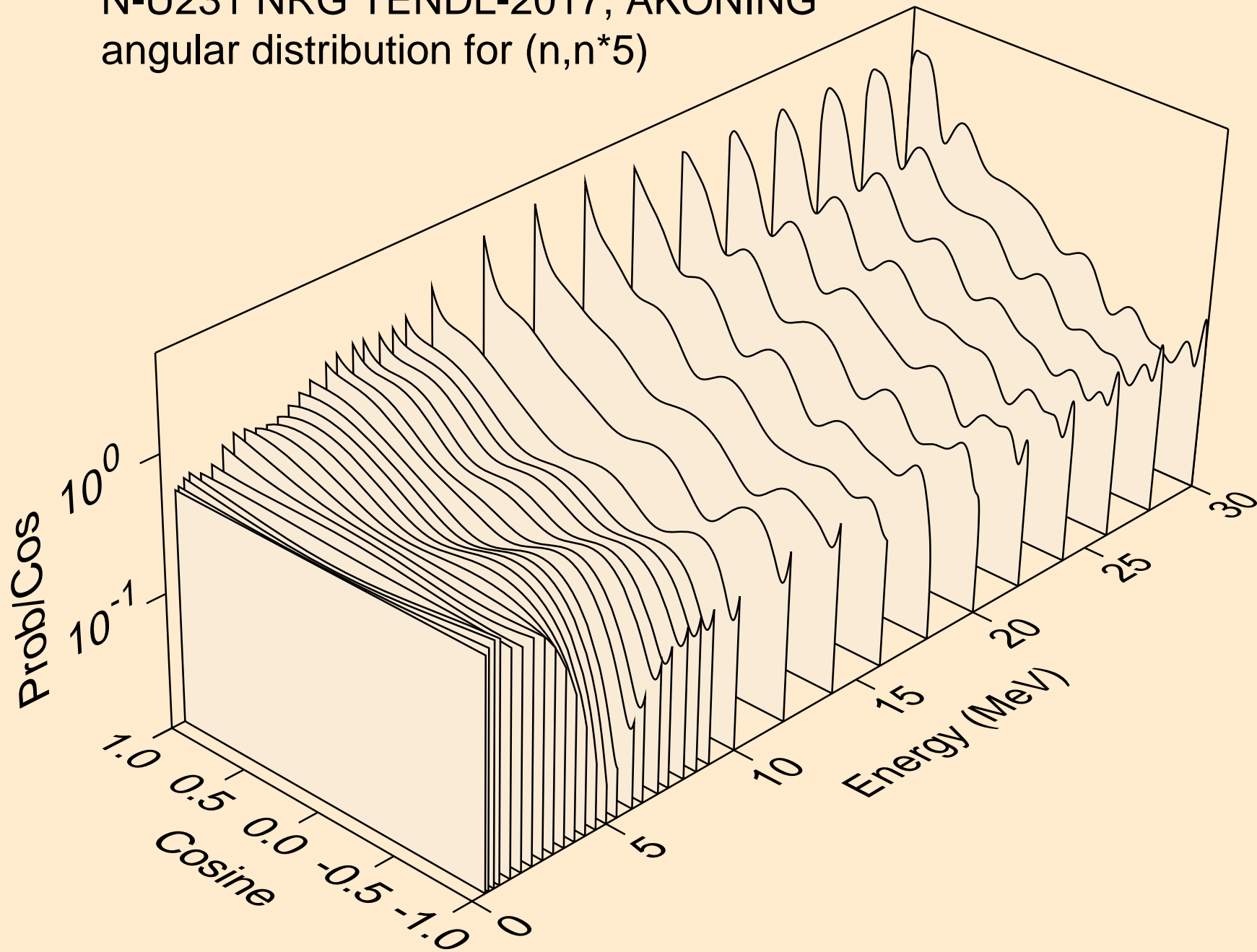
N-U231 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*3)



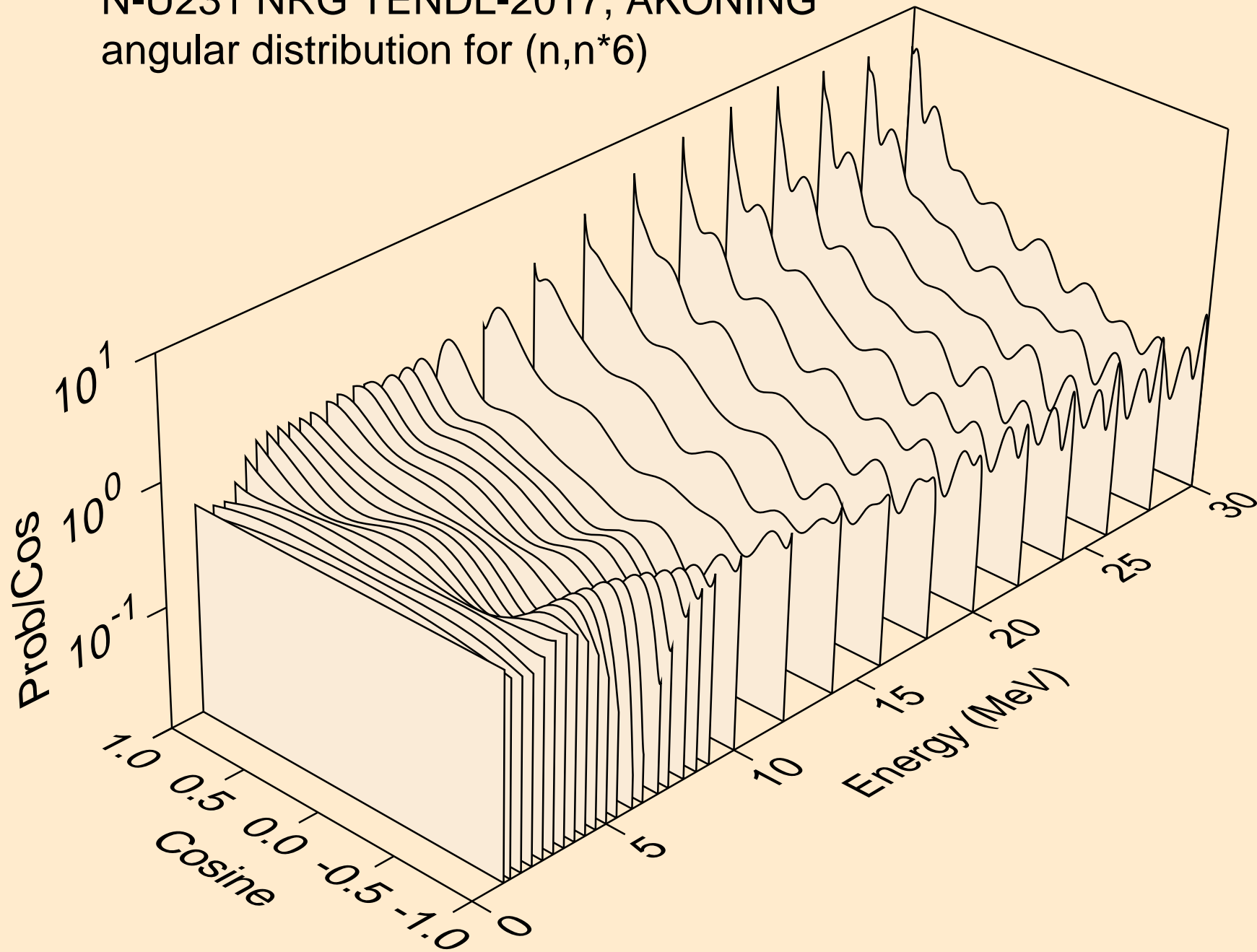
N-U231 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*4)



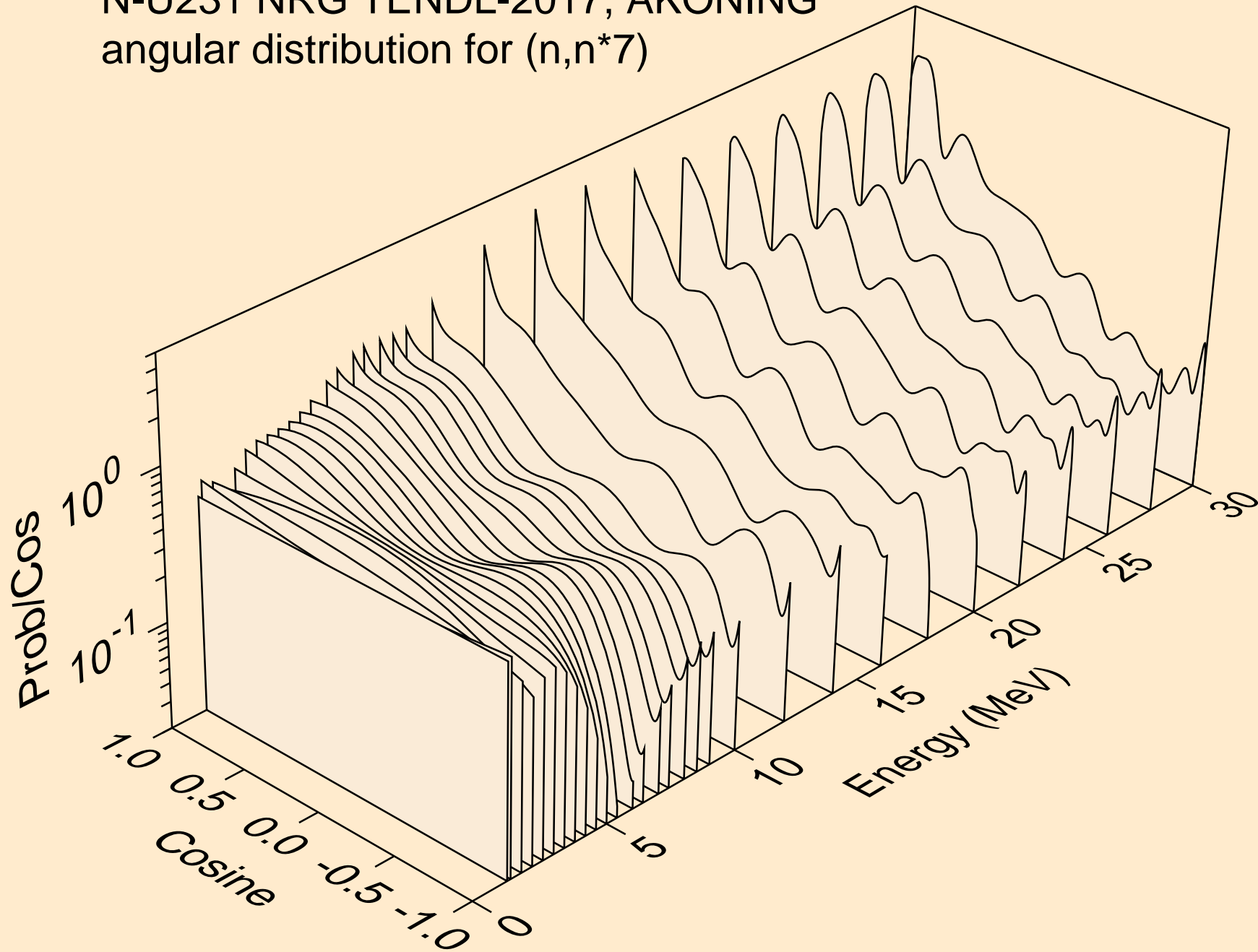
N-U231 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*5)



N-U231 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*6)

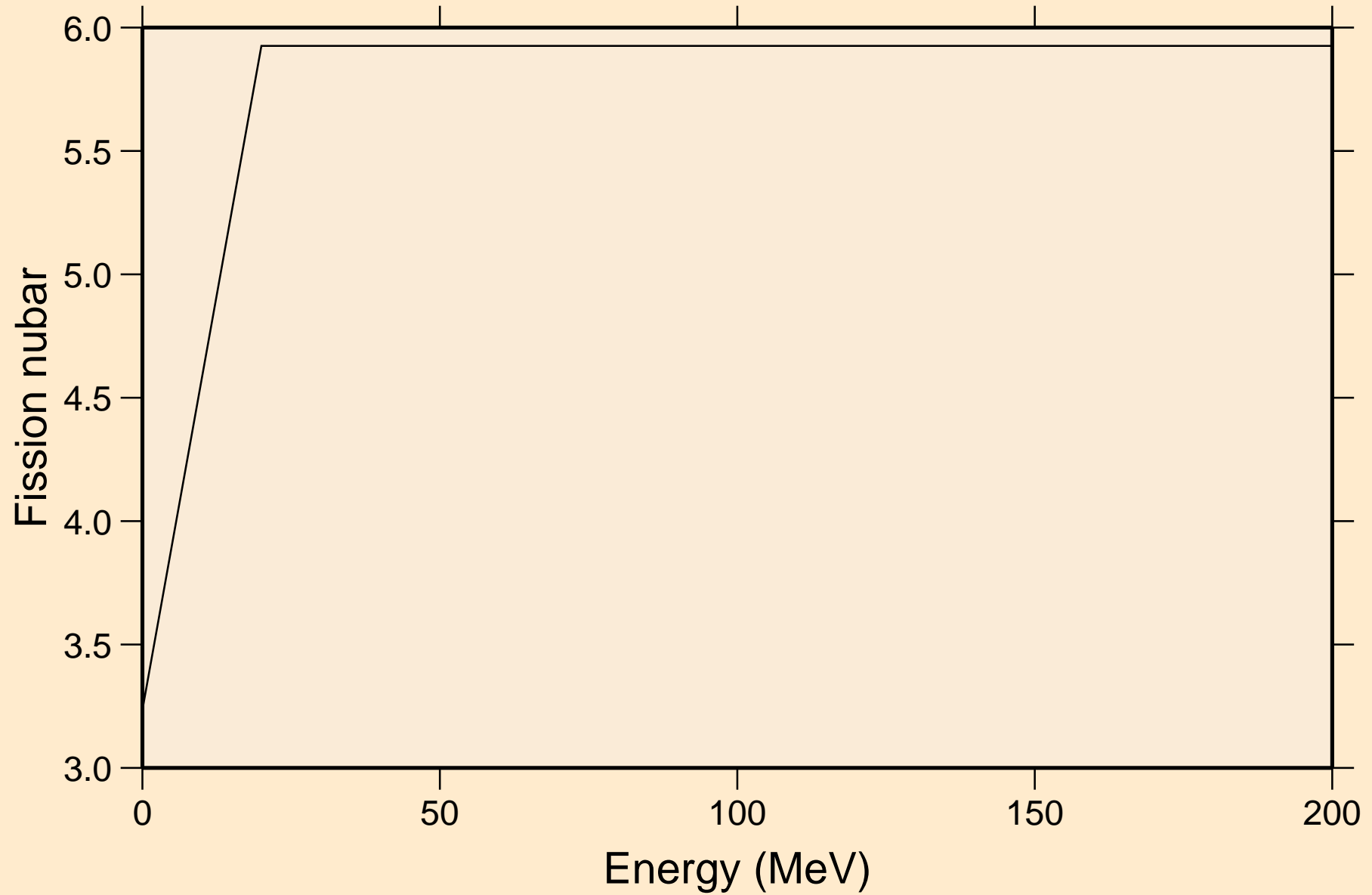


N-U231 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*7)

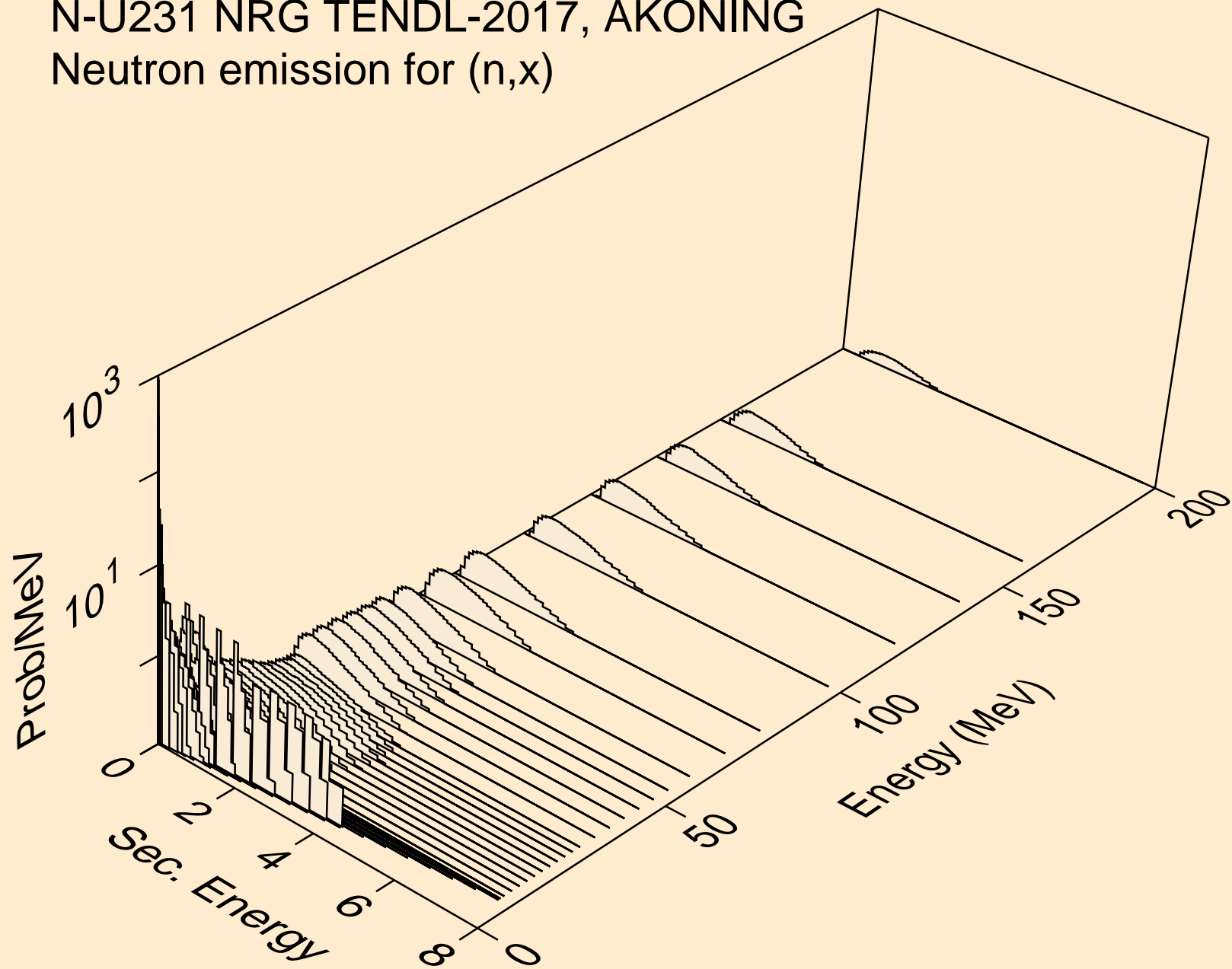


# N-U231 NRG TENDL-2017, AKONING

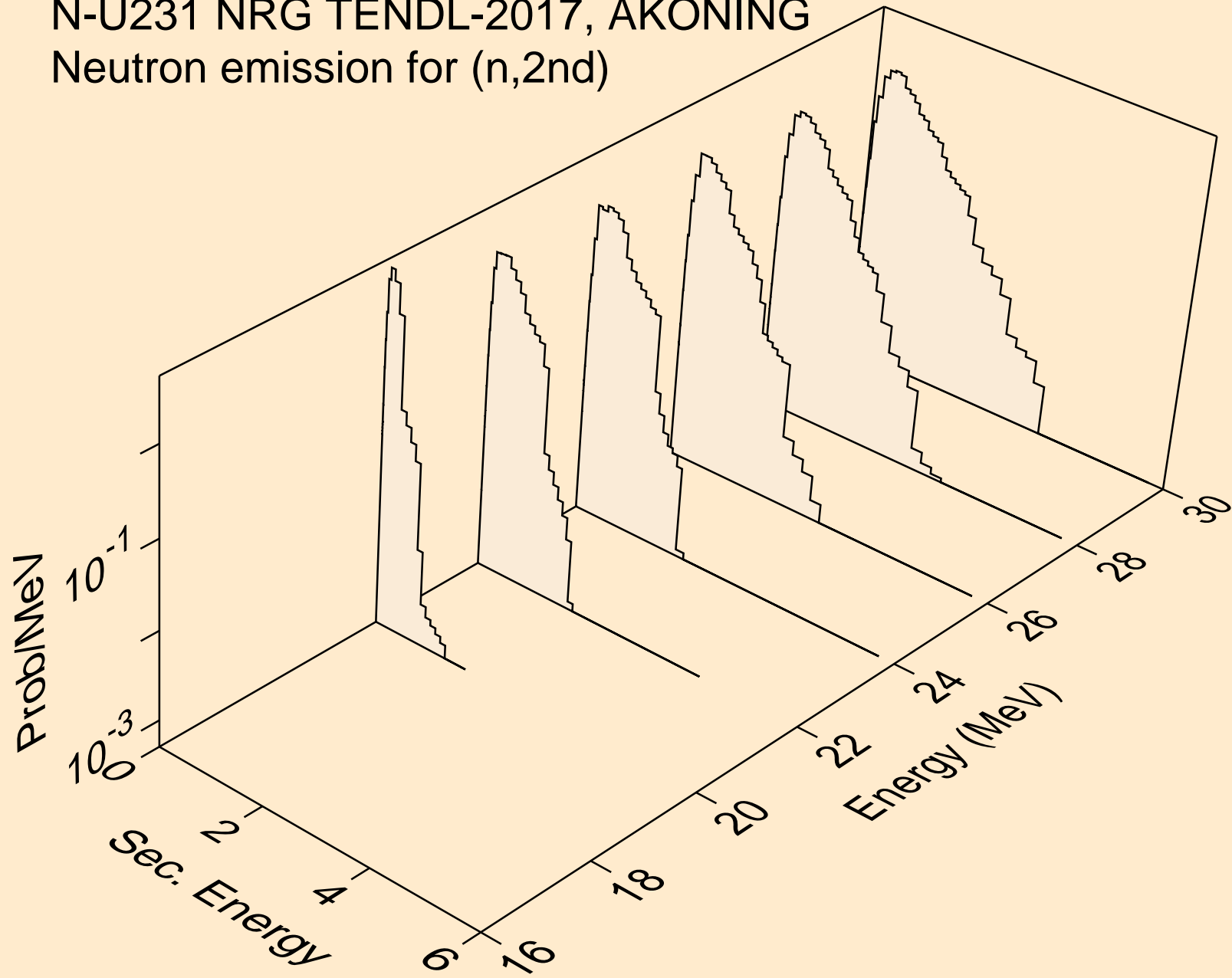
Total fission nubar



N-U231 NRG TENDL-2017, AKONING  
Neutron emission for (n,x)

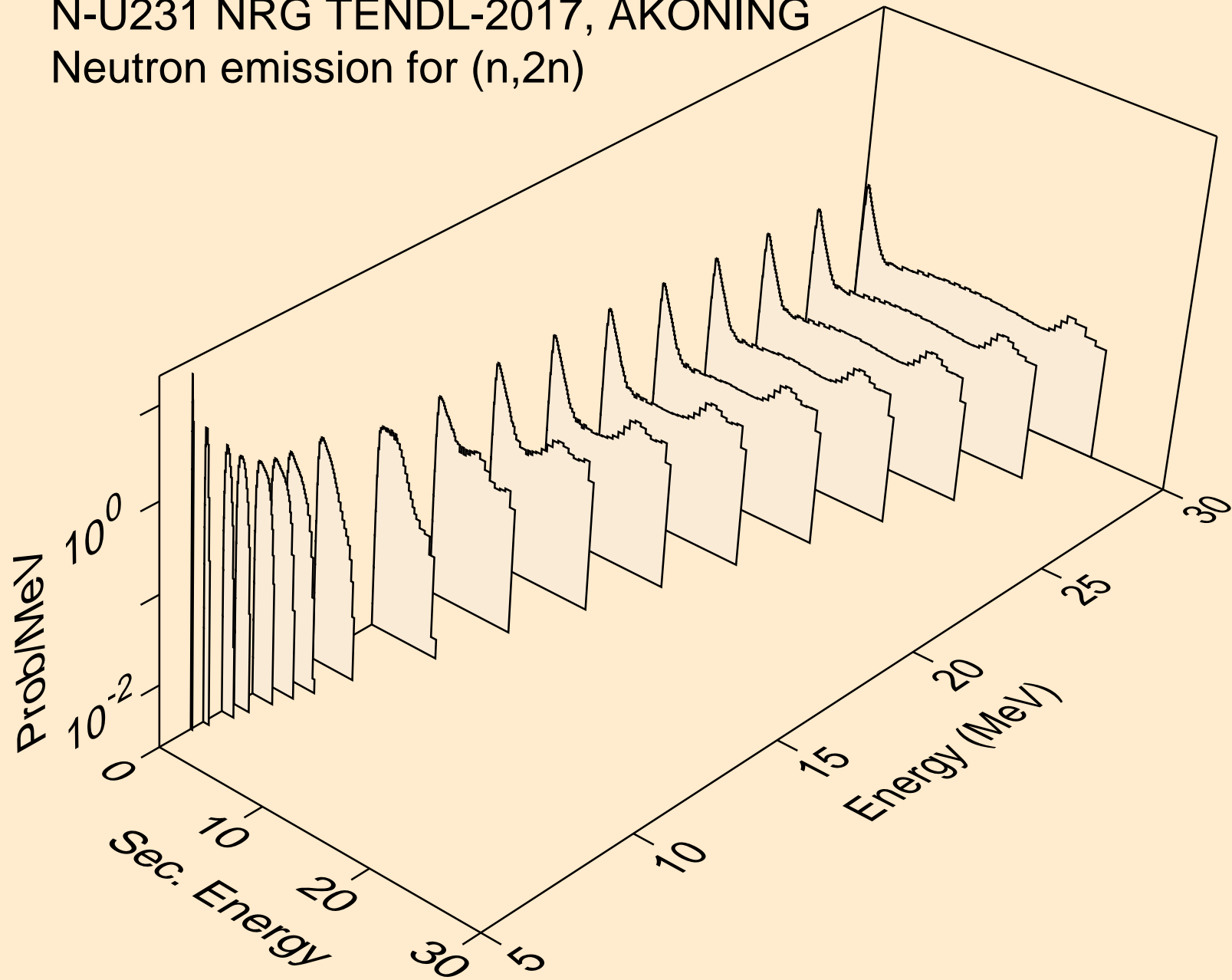


N-U231 NRG TENDL-2017, AKONING  
Neutron emission for (n,2nd)

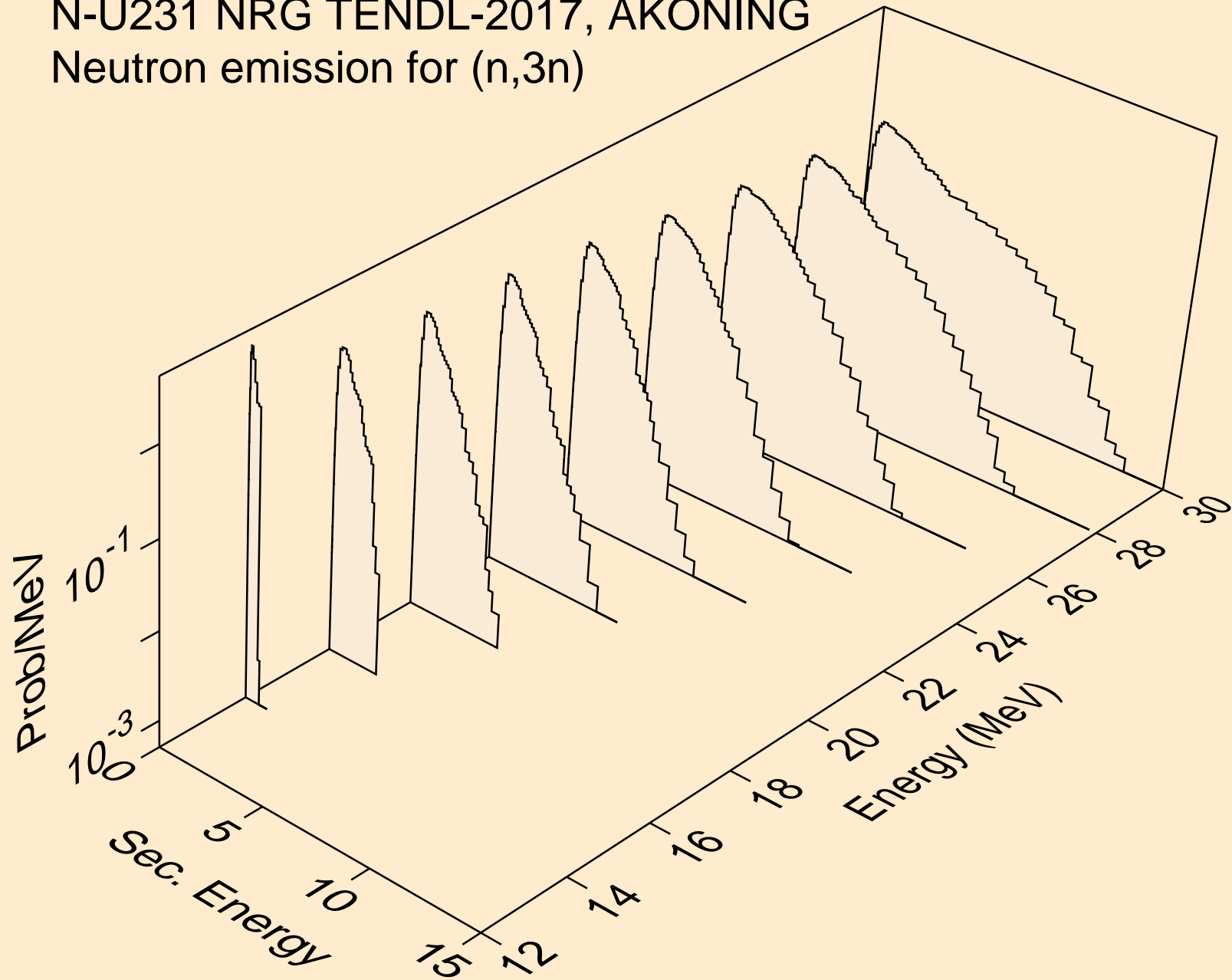




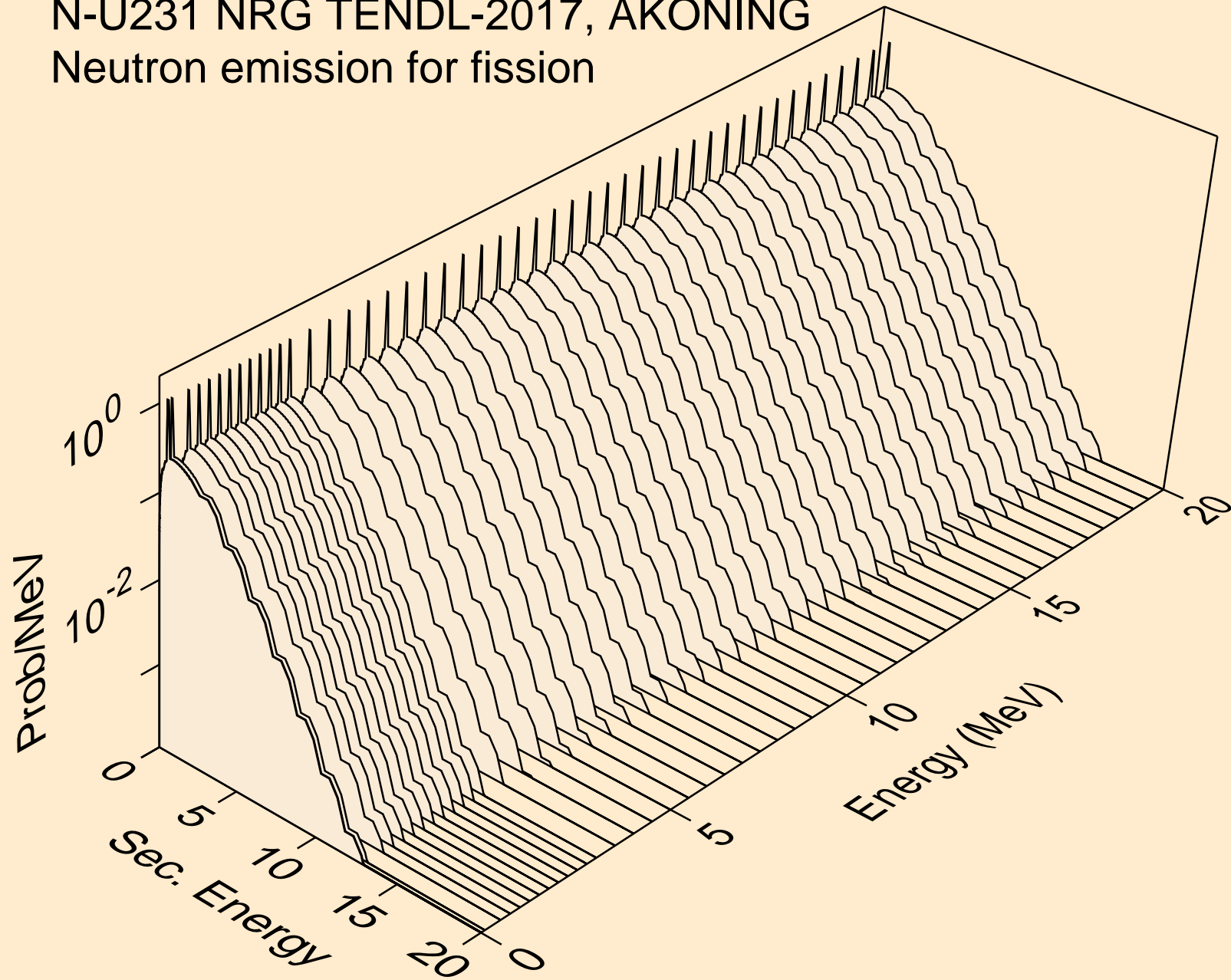
N-U231 NRG TENDL-2017, AKONING  
Neutron emission for (n,2n)



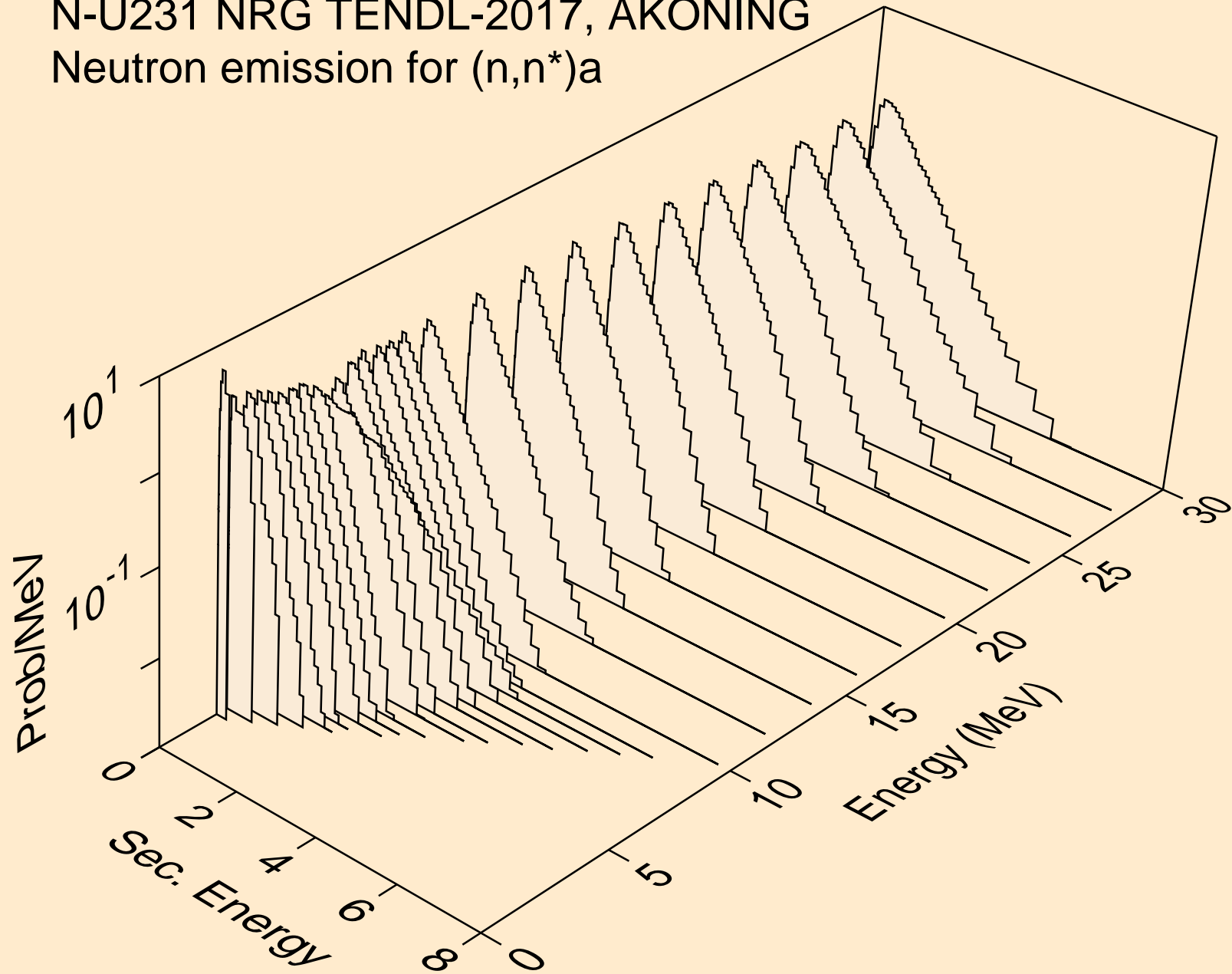
N-U231 NRG TENDL-2017, AKONING  
Neutron emission for (n,3n)



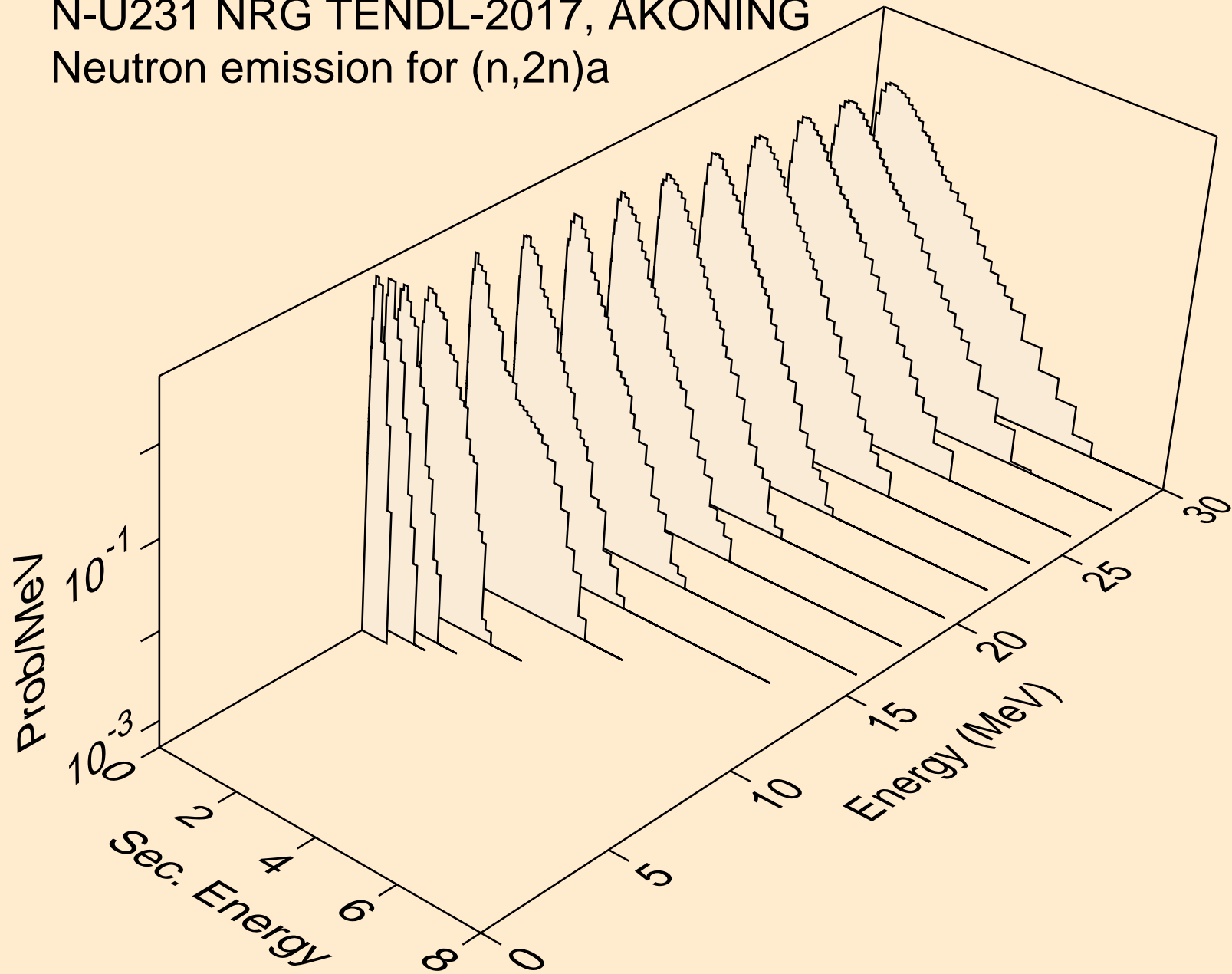
N-U231 NRG TENDL-2017, AKONING  
Neutron emission for fission



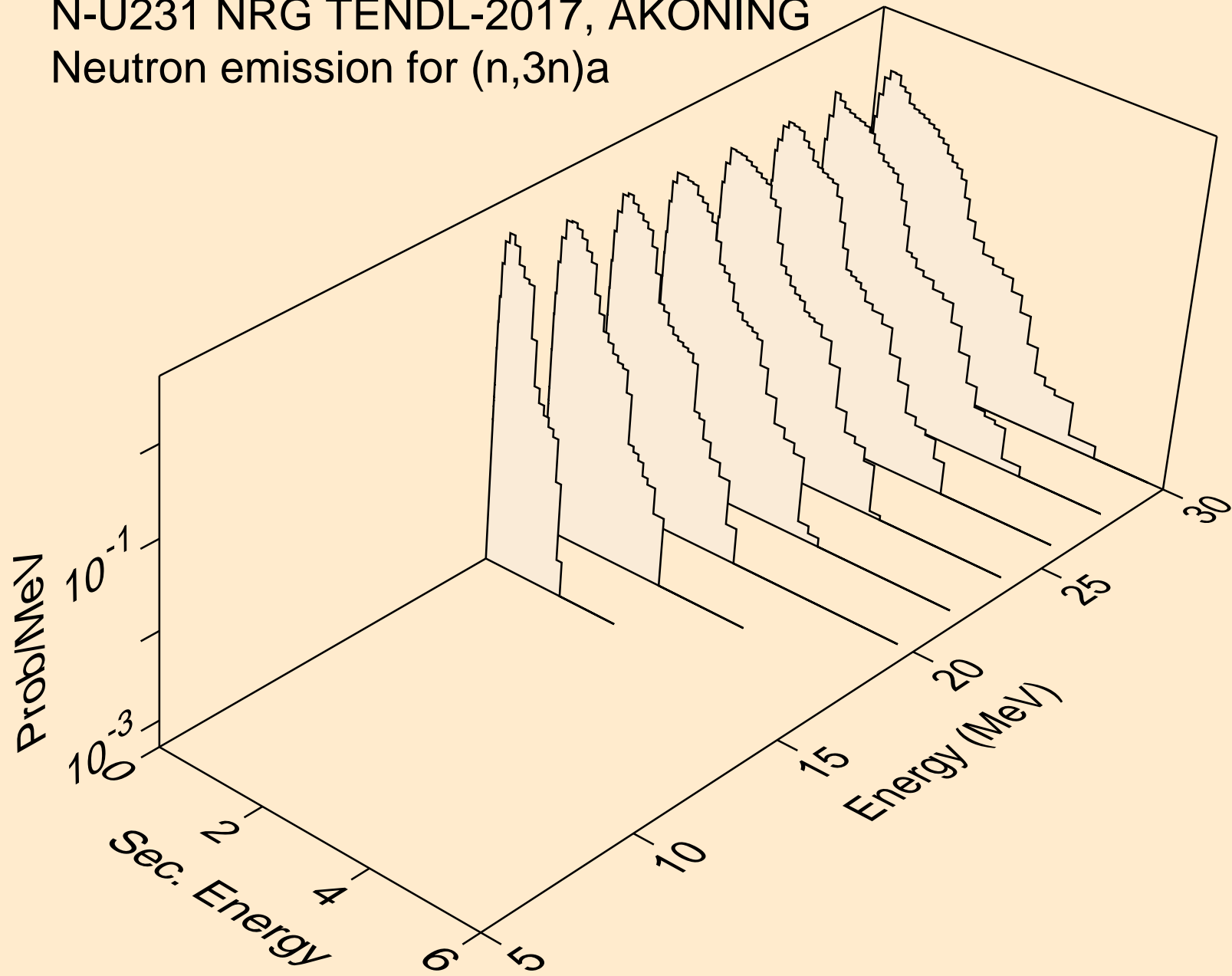
N-U231 NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*)a



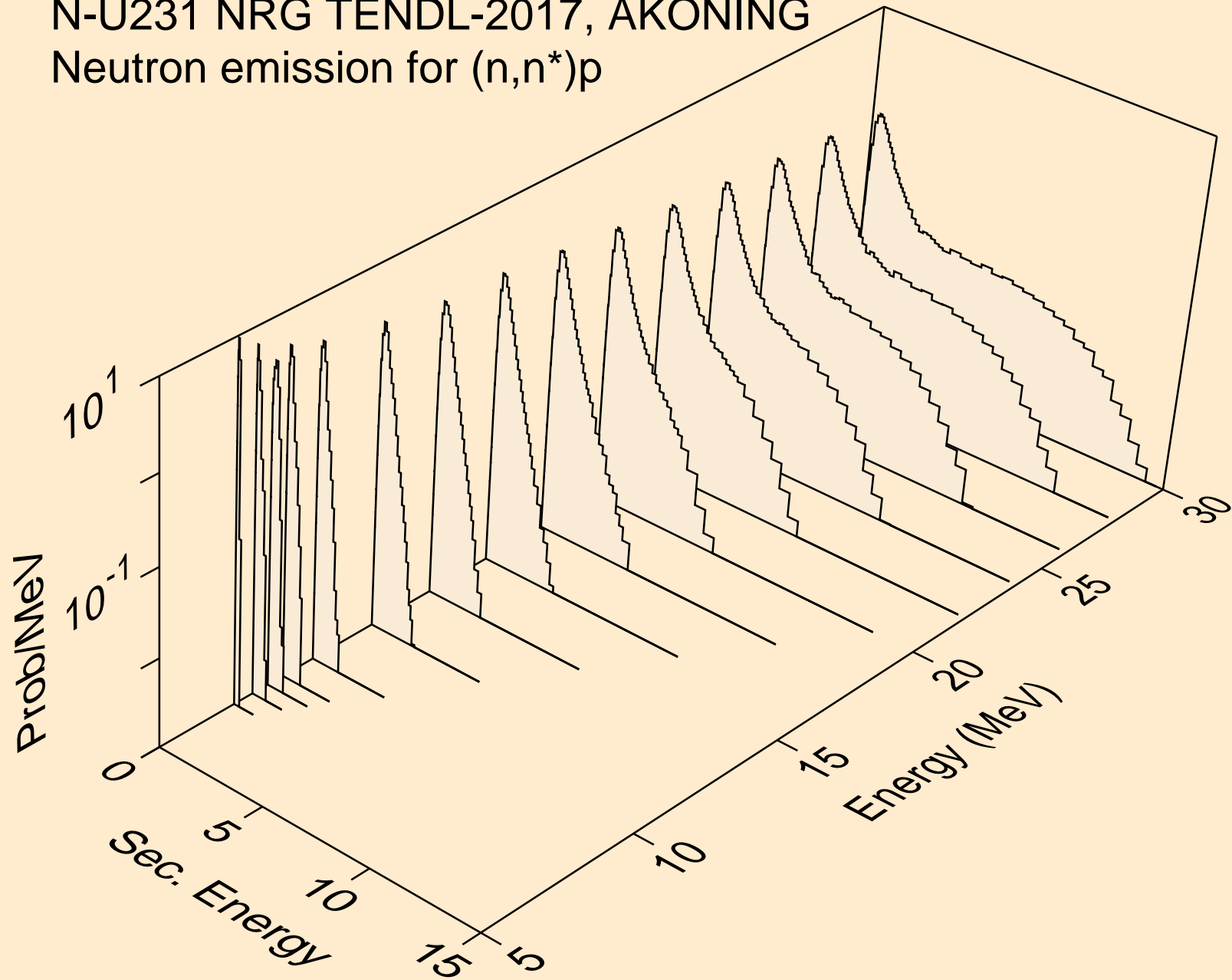
N-U231 NRG TENDL-2017, AKONING  
Neutron emission for (n,2n)a



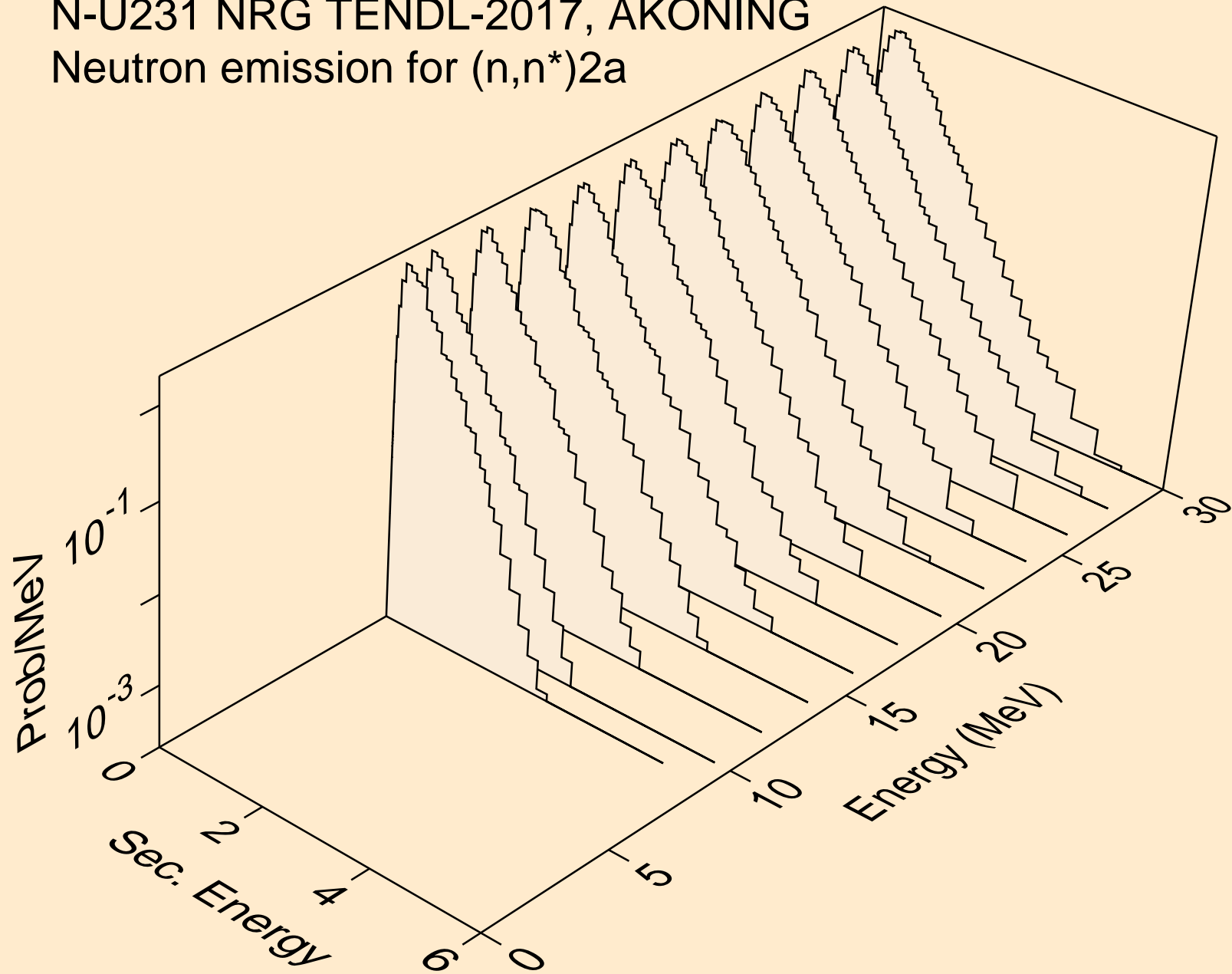
N-U231 NRG TENDL-2017, AKONING  
Neutron emission for (n,3n)a



N-U231 NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*)p

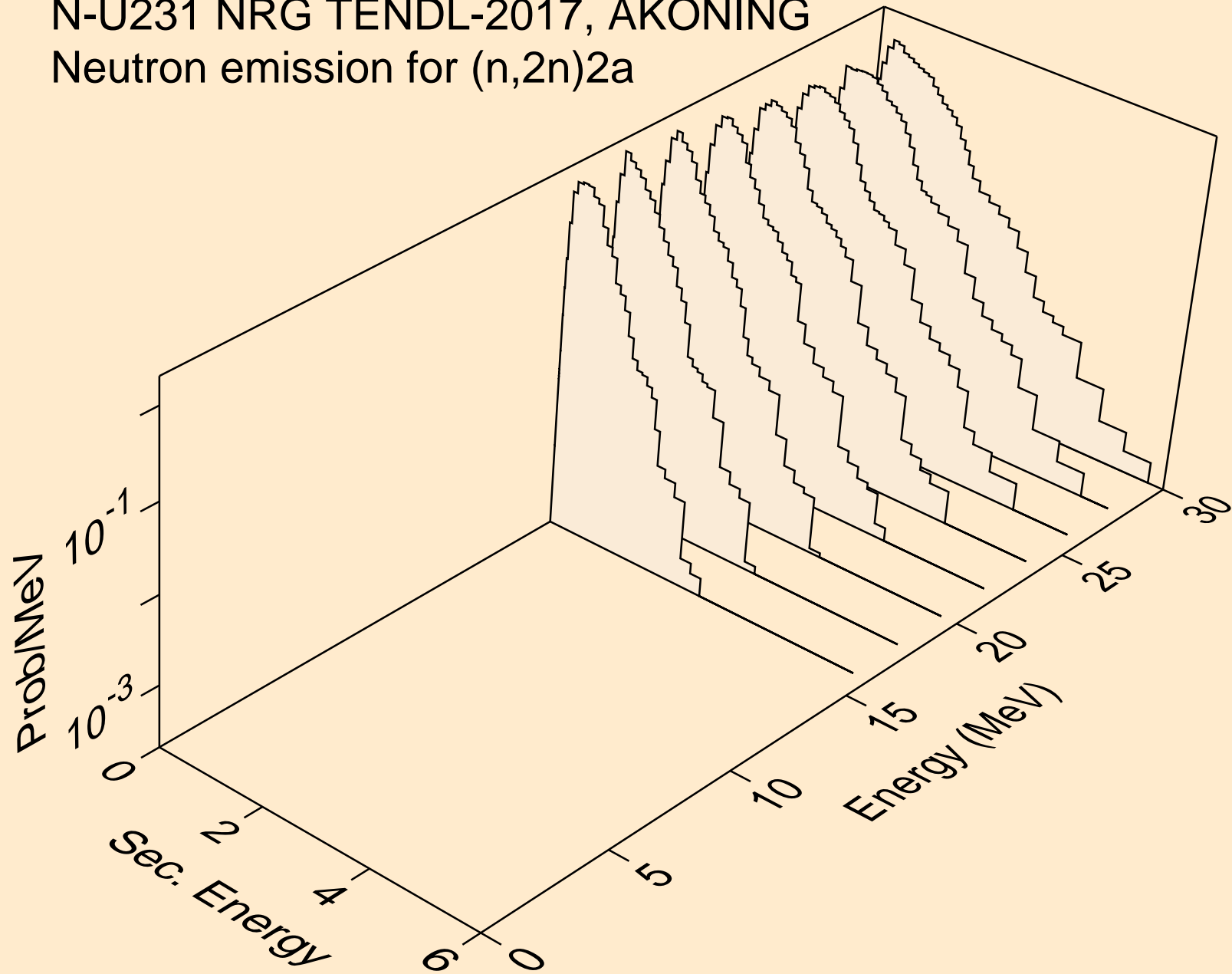


N-U231 NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*)2a

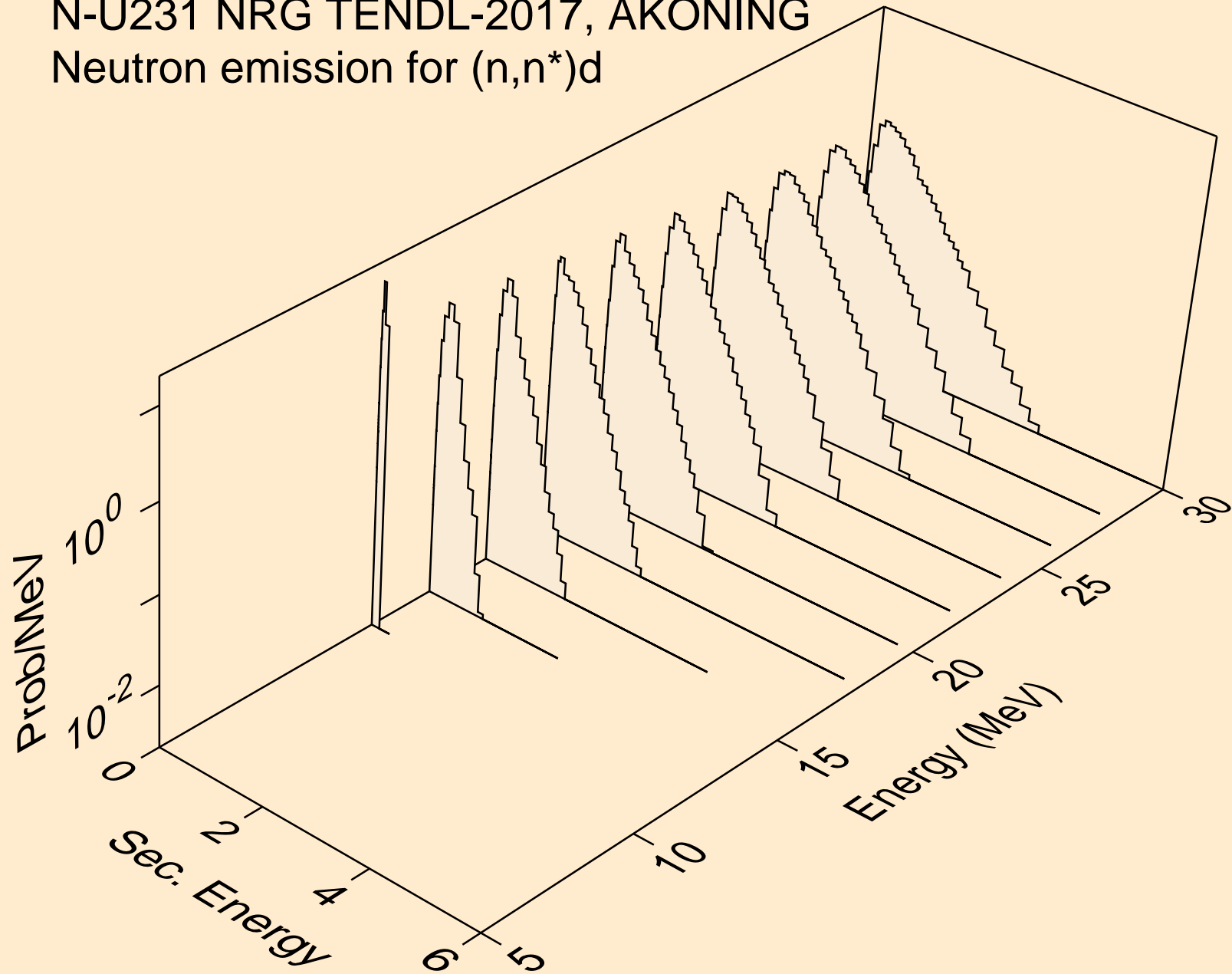




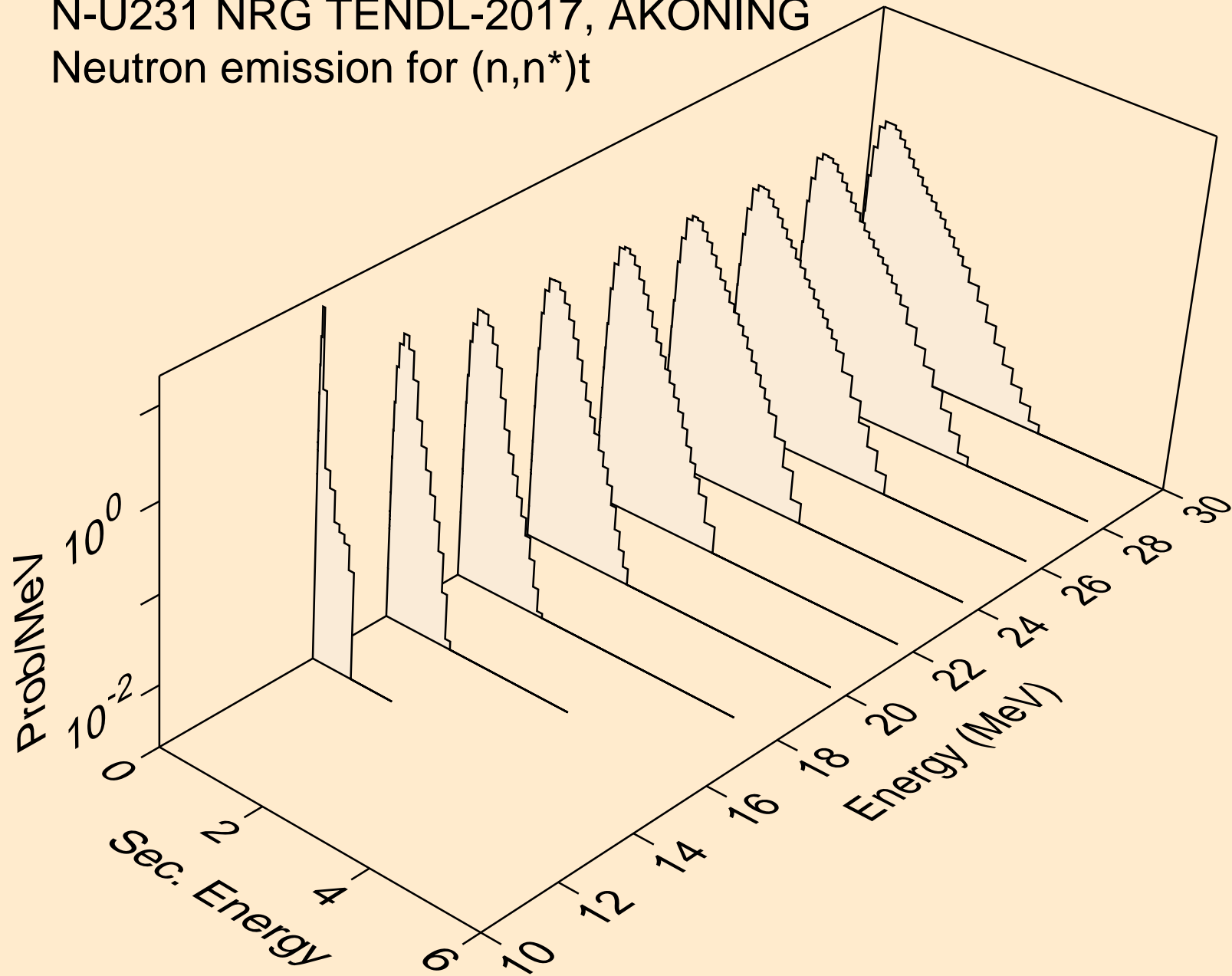
N-U231 NRG TENDL-2017, AKONING  
Neutron emission for (n,2n)2a



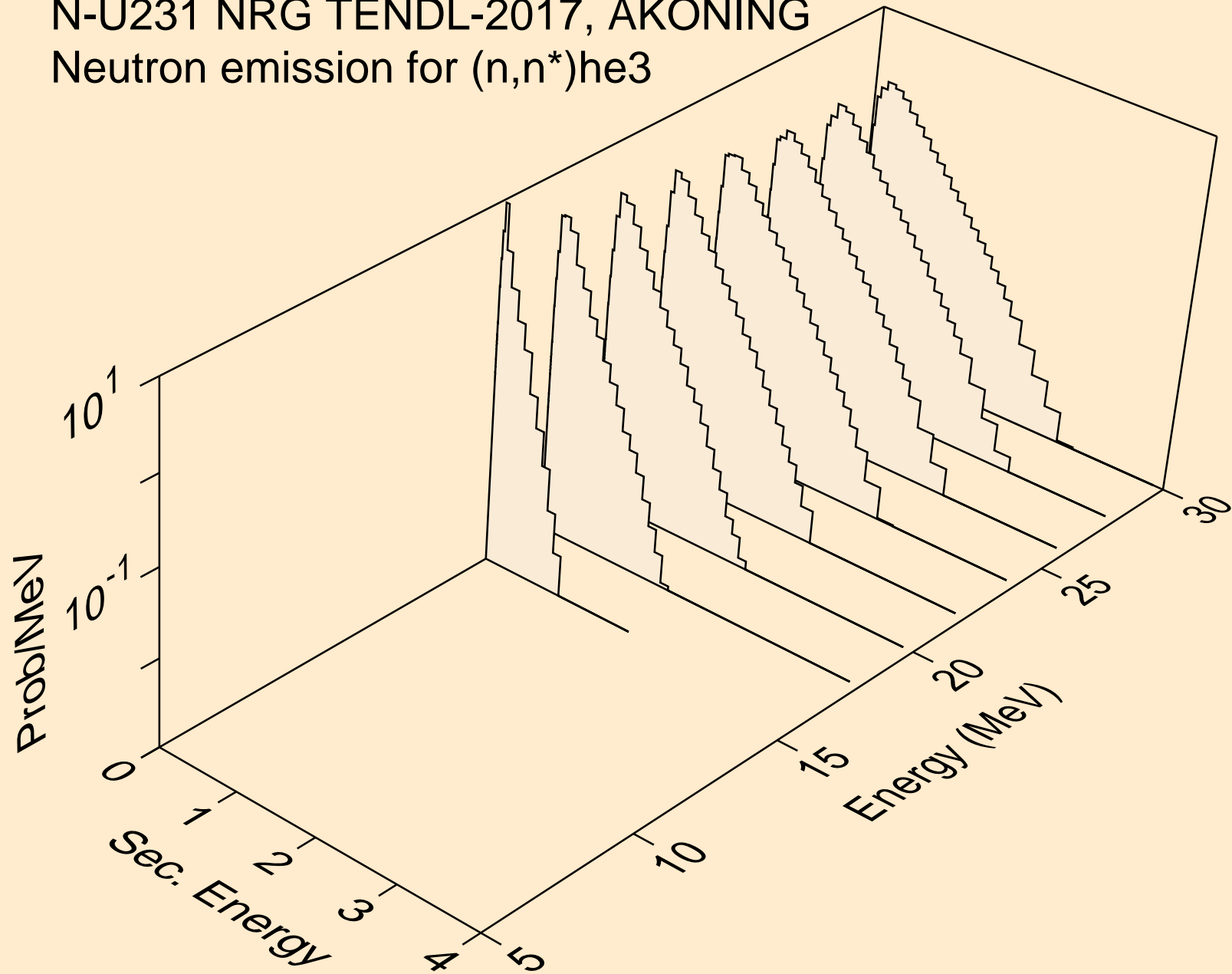
N-U231 NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*)d



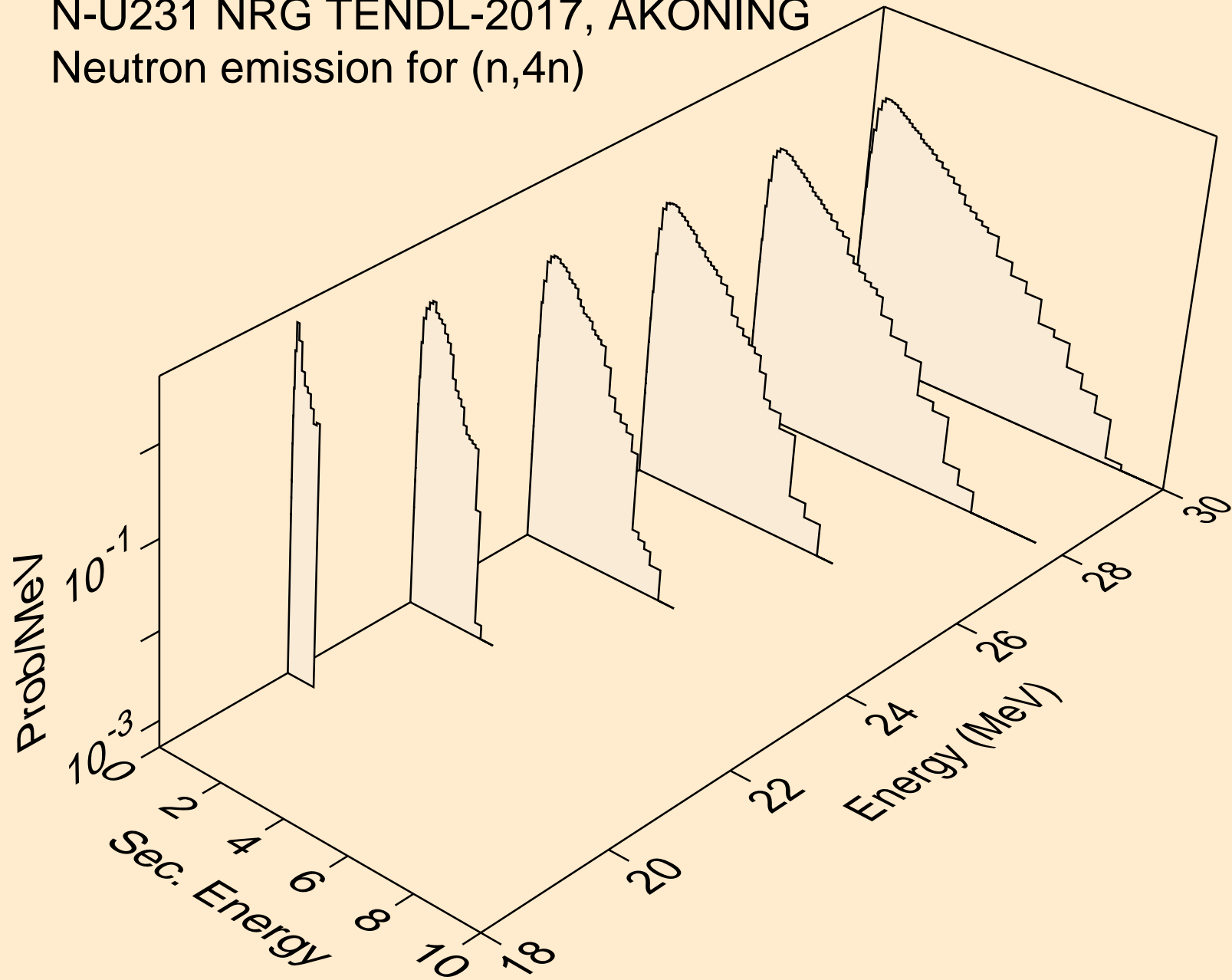
N-U231 NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*)t



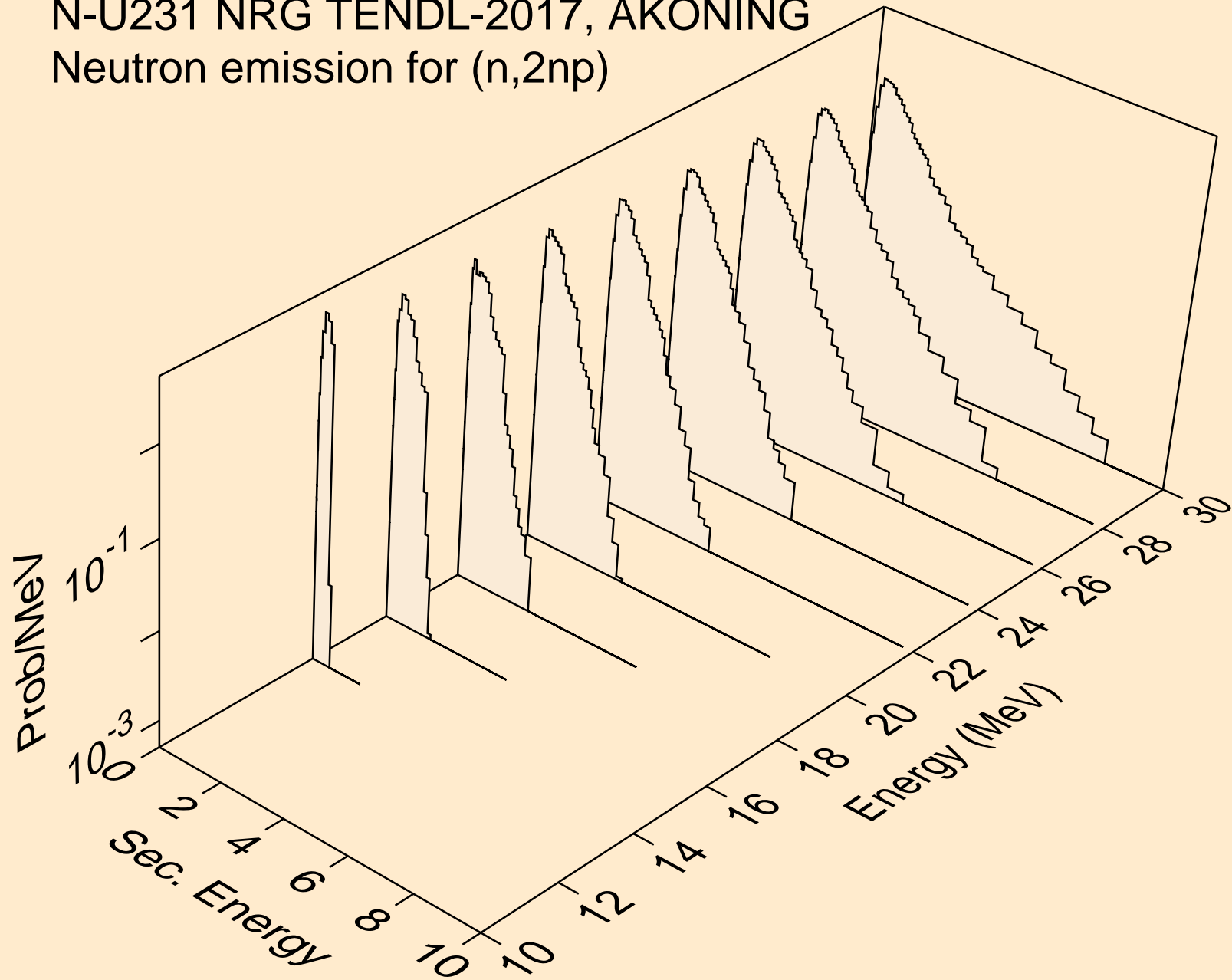
N-U231 NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*)he3



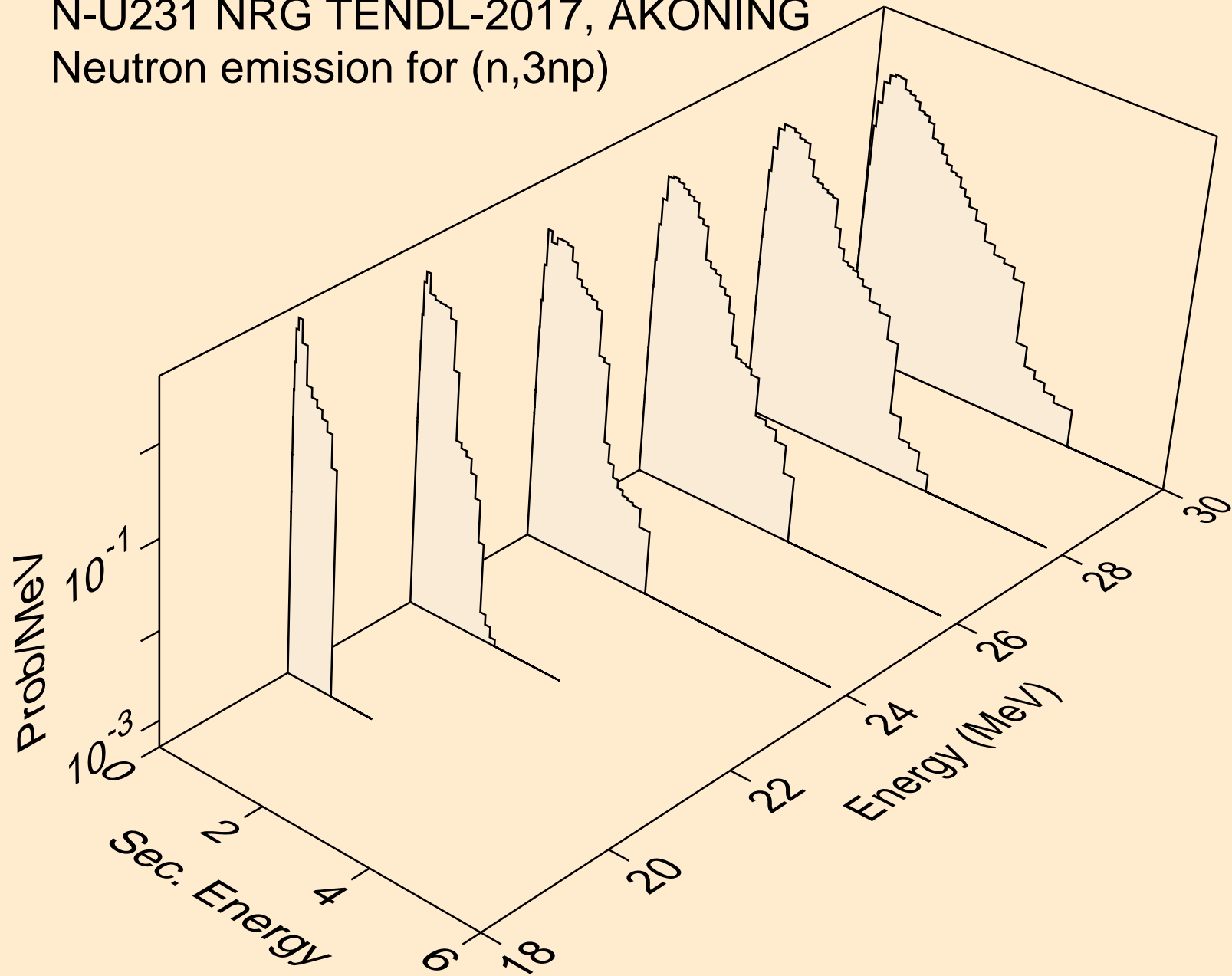
N-U231 NRG TENDL-2017, AKONING  
Neutron emission for (n,4n)



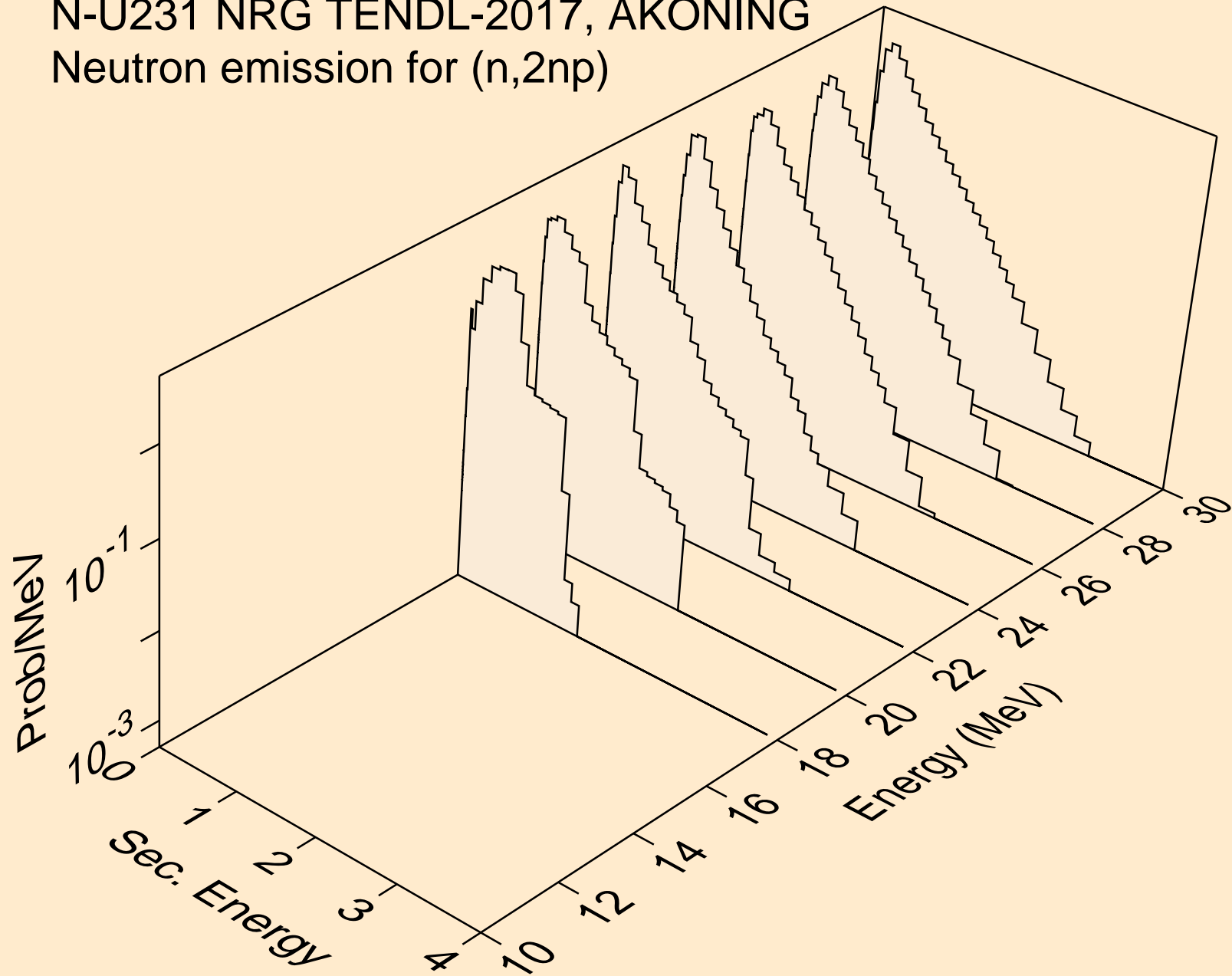
N-U231 NRG TENDL-2017, AKONING  
Neutron emission for (n,2np)



N-U231 NRG TENDL-2017, AKONING  
Neutron emission for (n,3np)

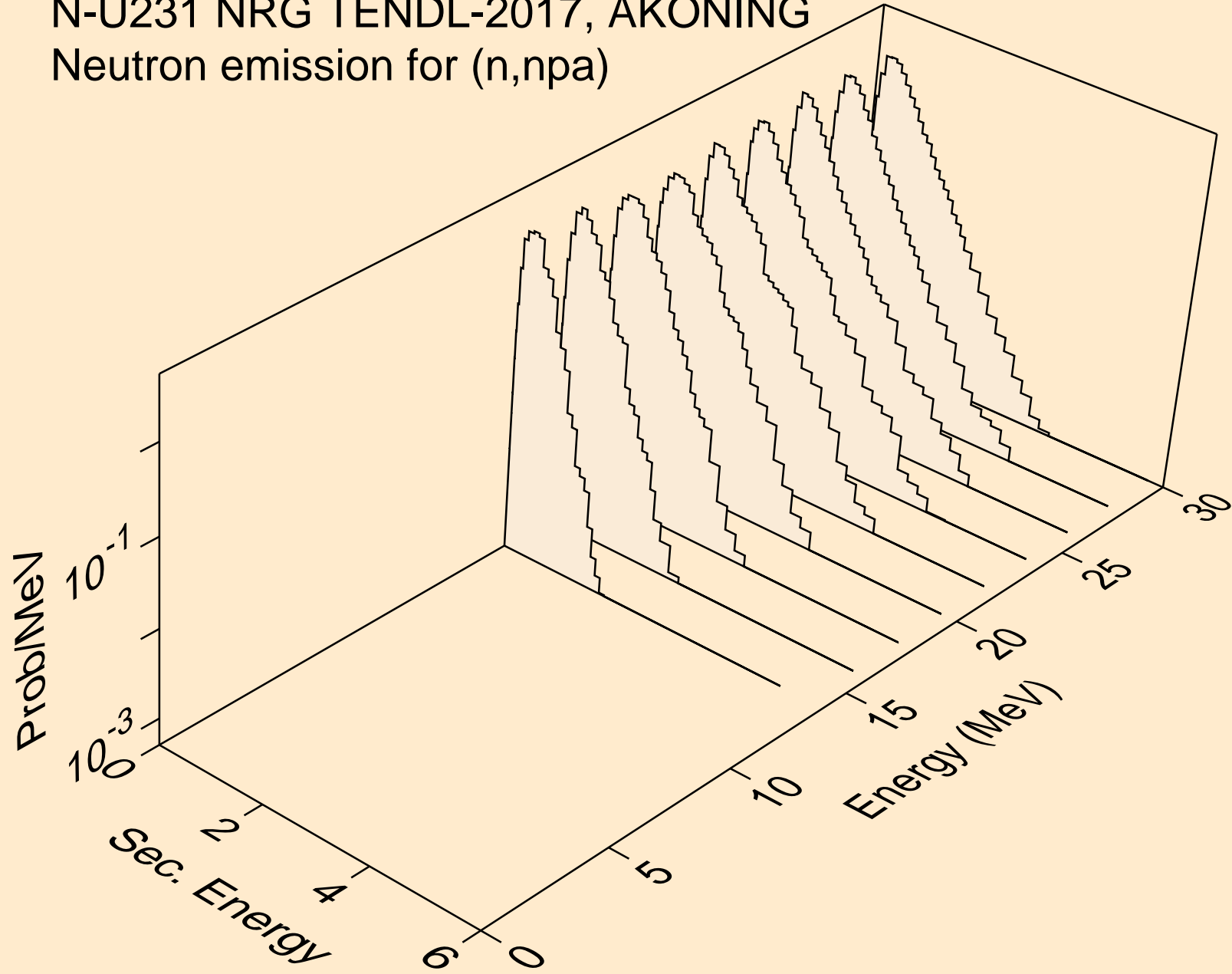


N-U231 NRG TENDL-2017, AKONING  
Neutron emission for (n,2np)

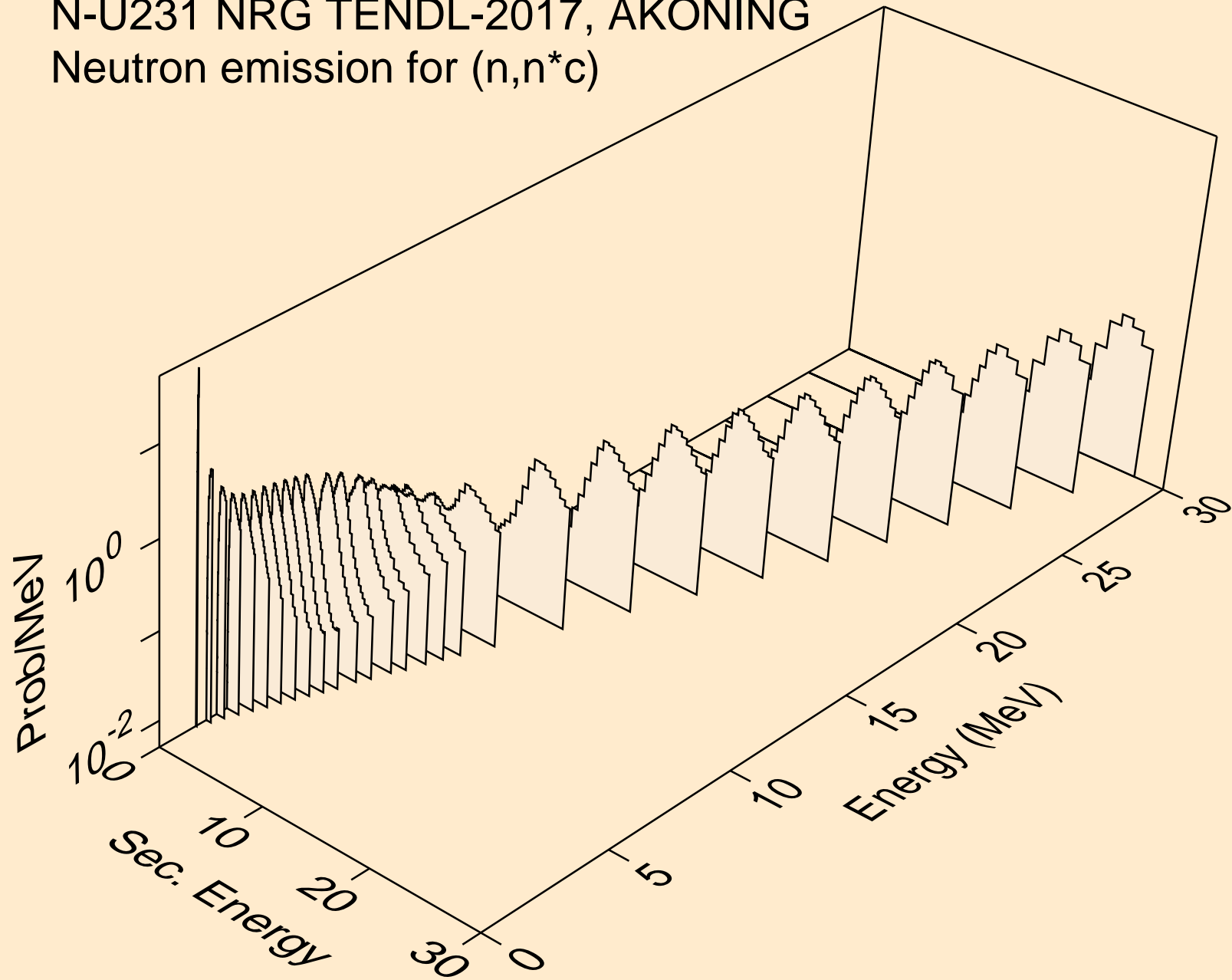




N-U231 NRG TENDL-2017, AKONING  
Neutron emission for (n,npa)

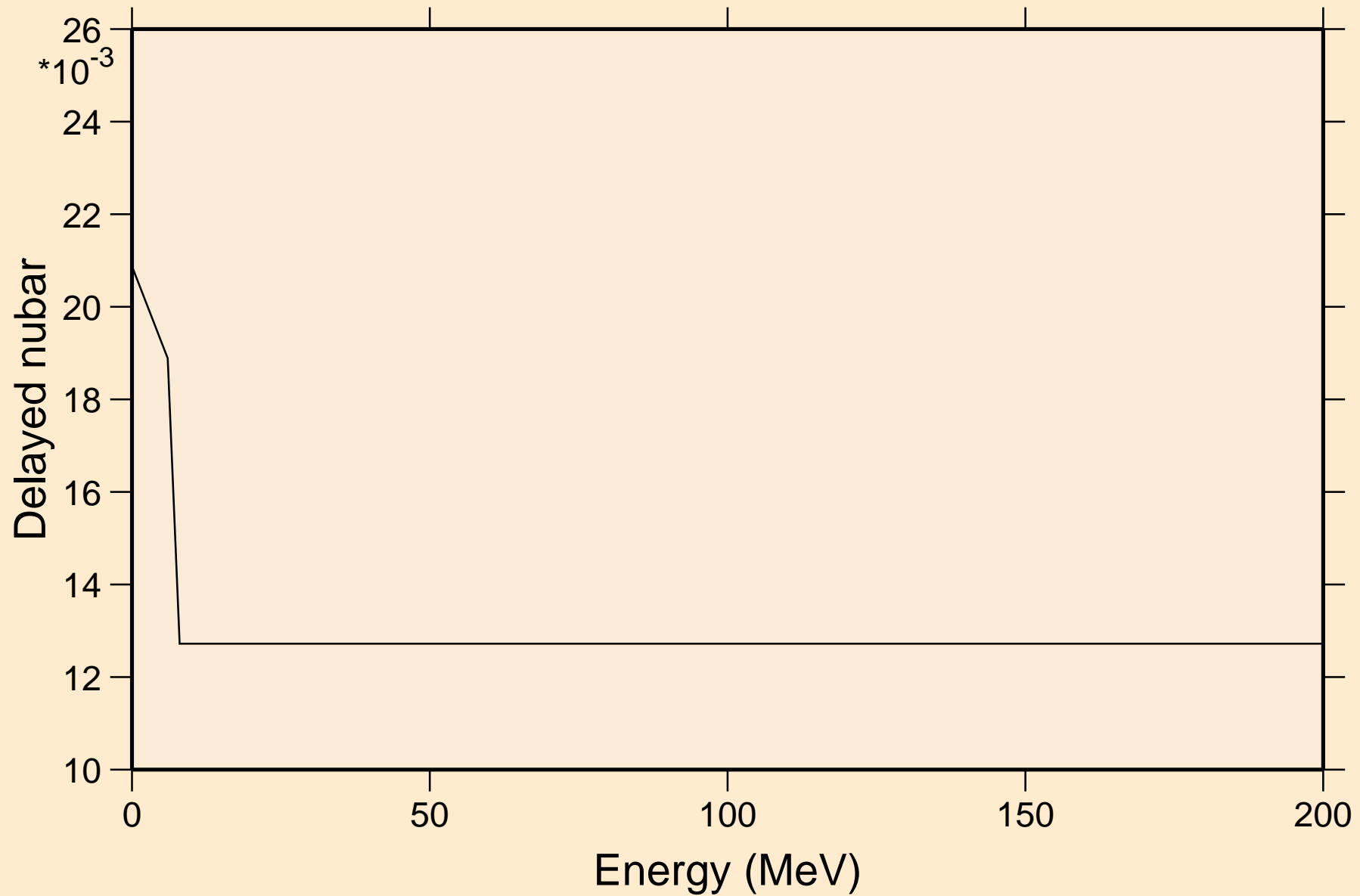


N-U231 NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*c)



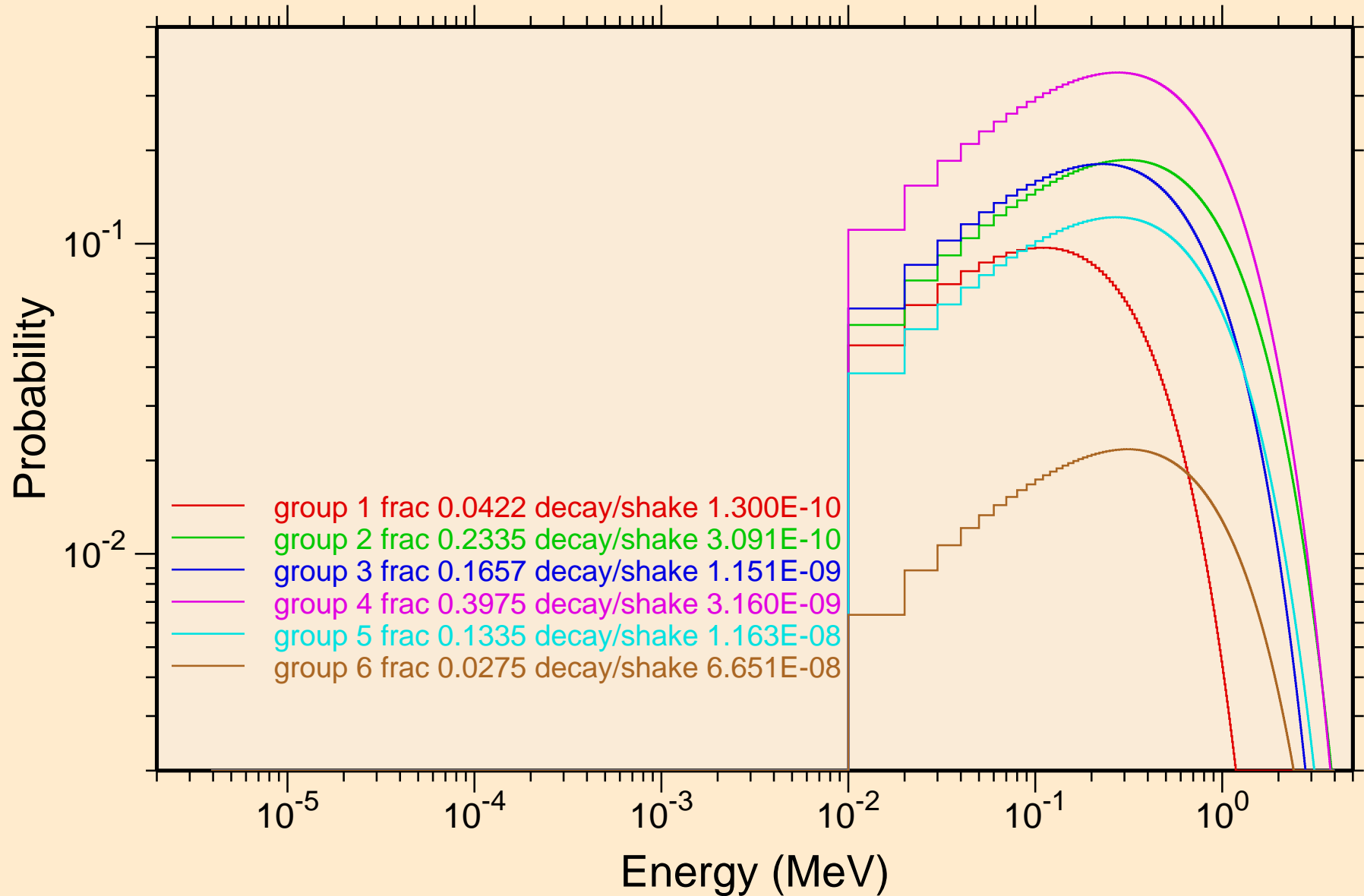
# N-U231 NRG TENDL-2017, AKONING

Delayed nubar

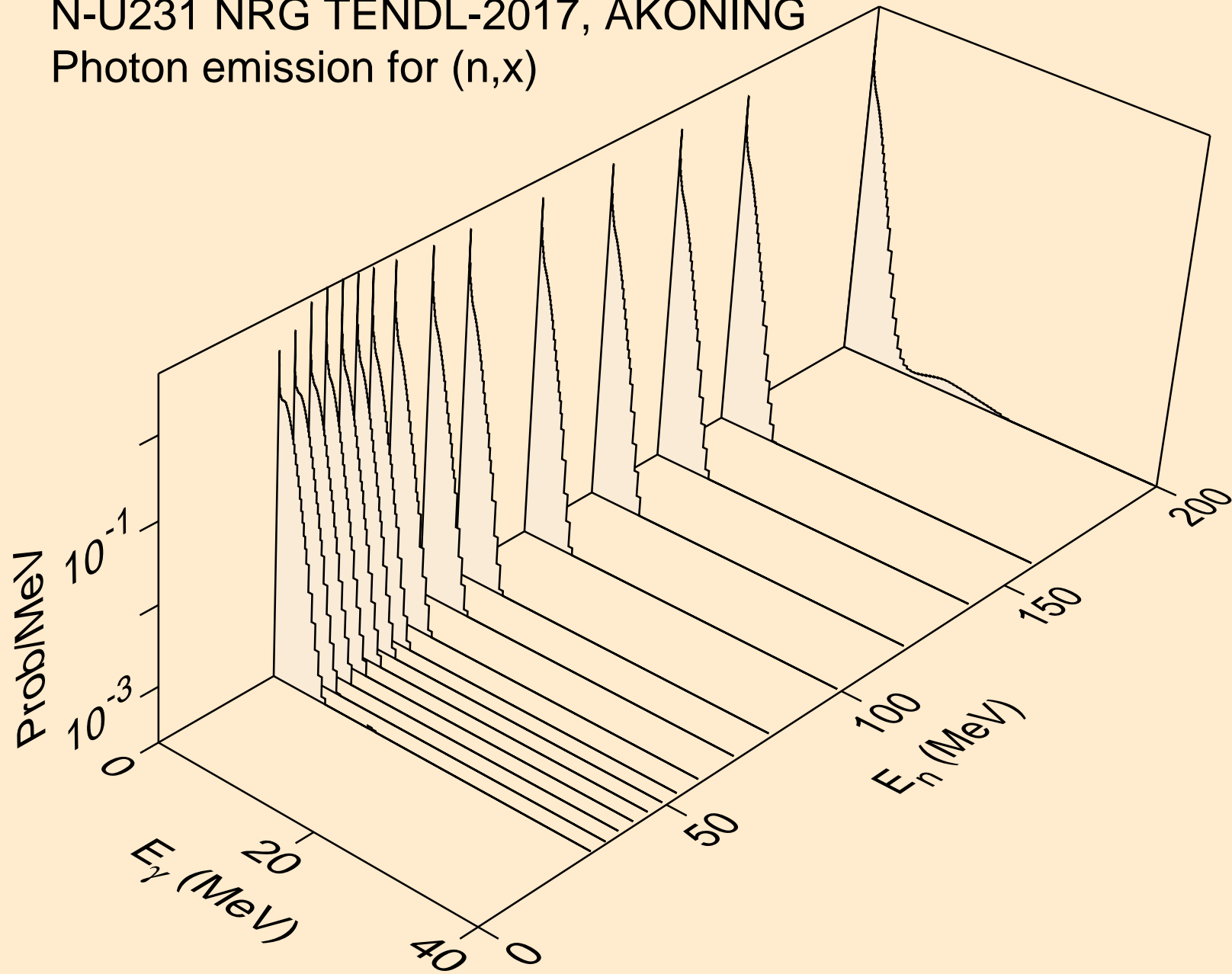


# N-U231 NRG TENDL-2017, AKONING

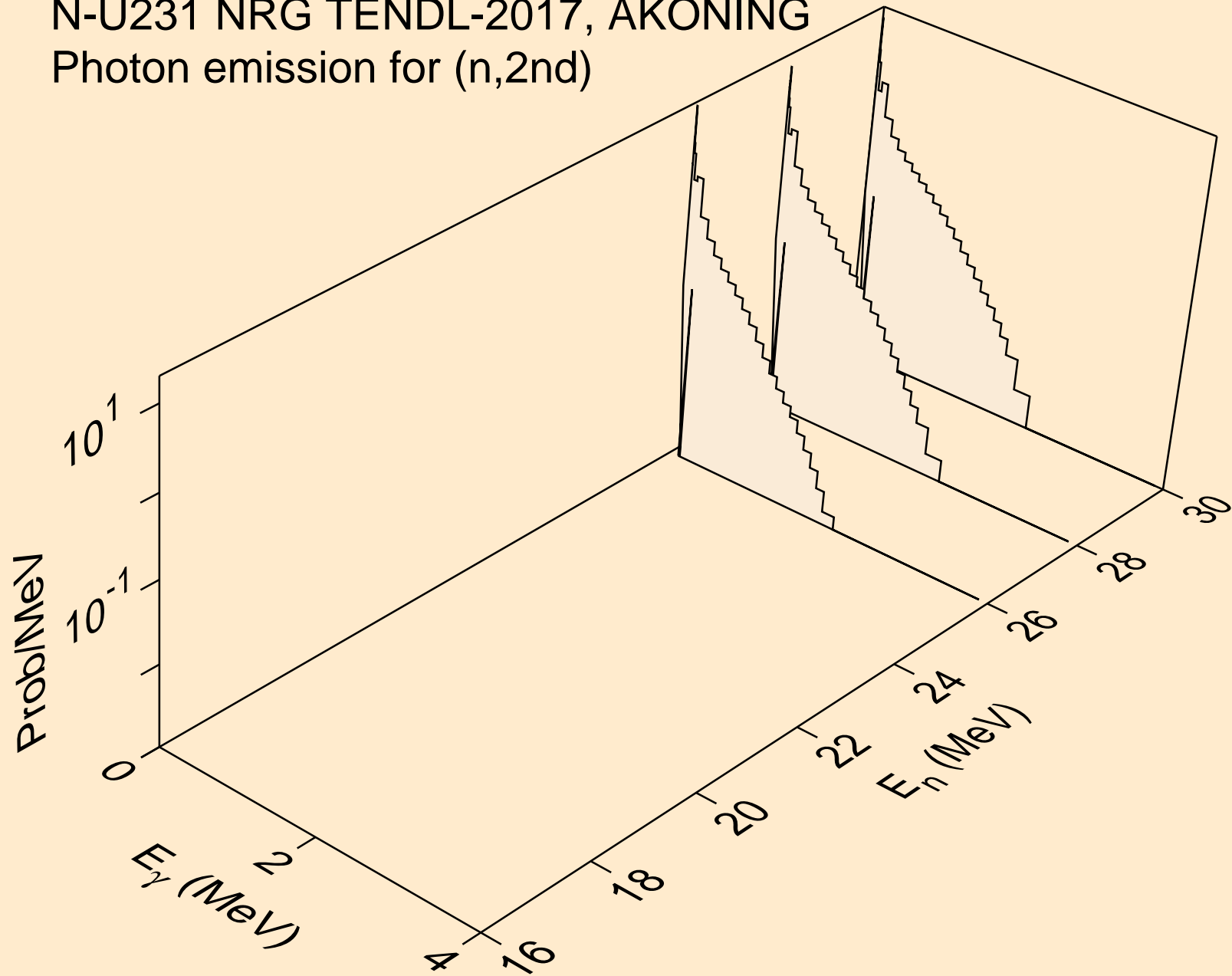
## Delayed neutron spectra



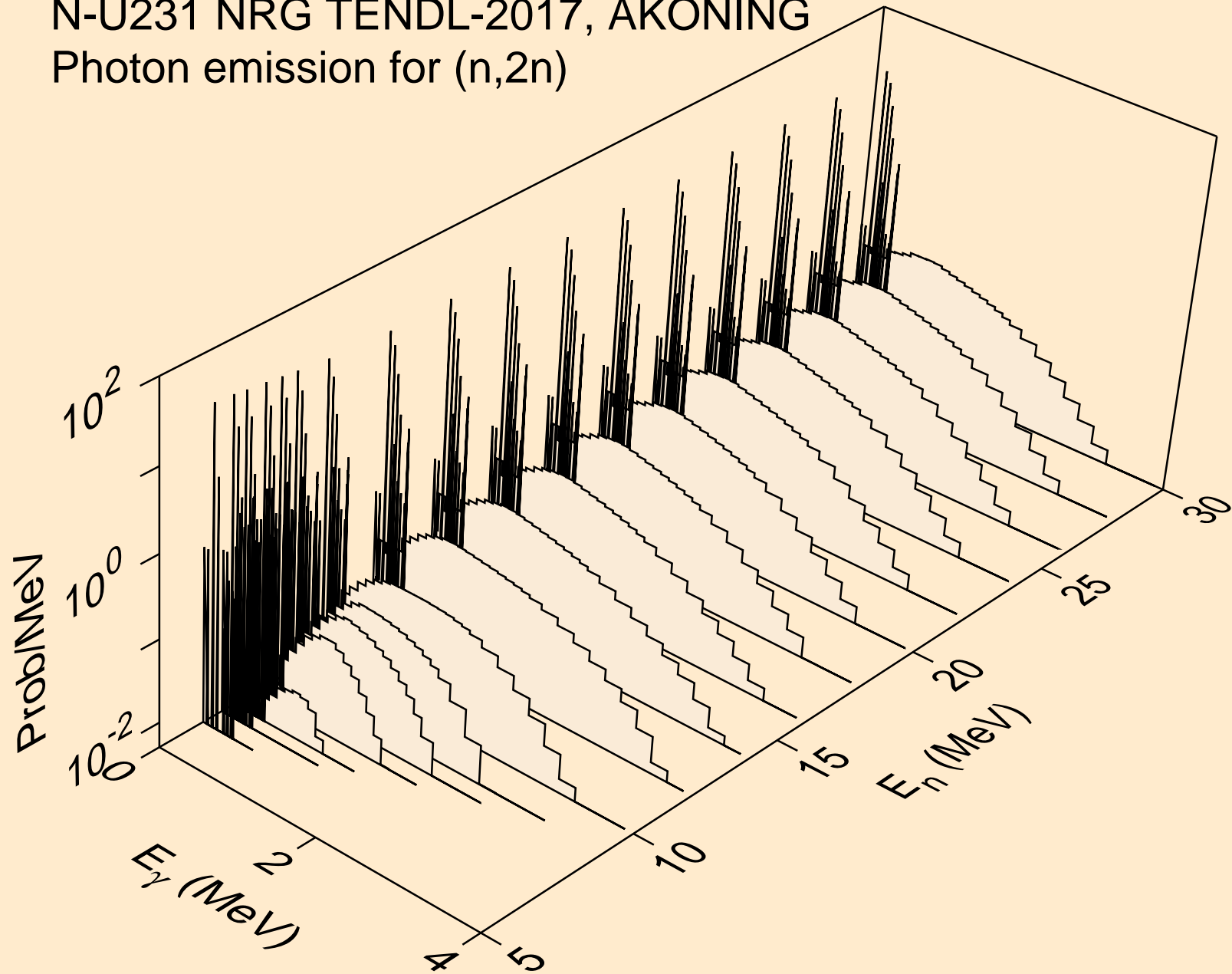
N-U231 NRG TENDL-2017, AKONING  
Photon emission for (n,x)



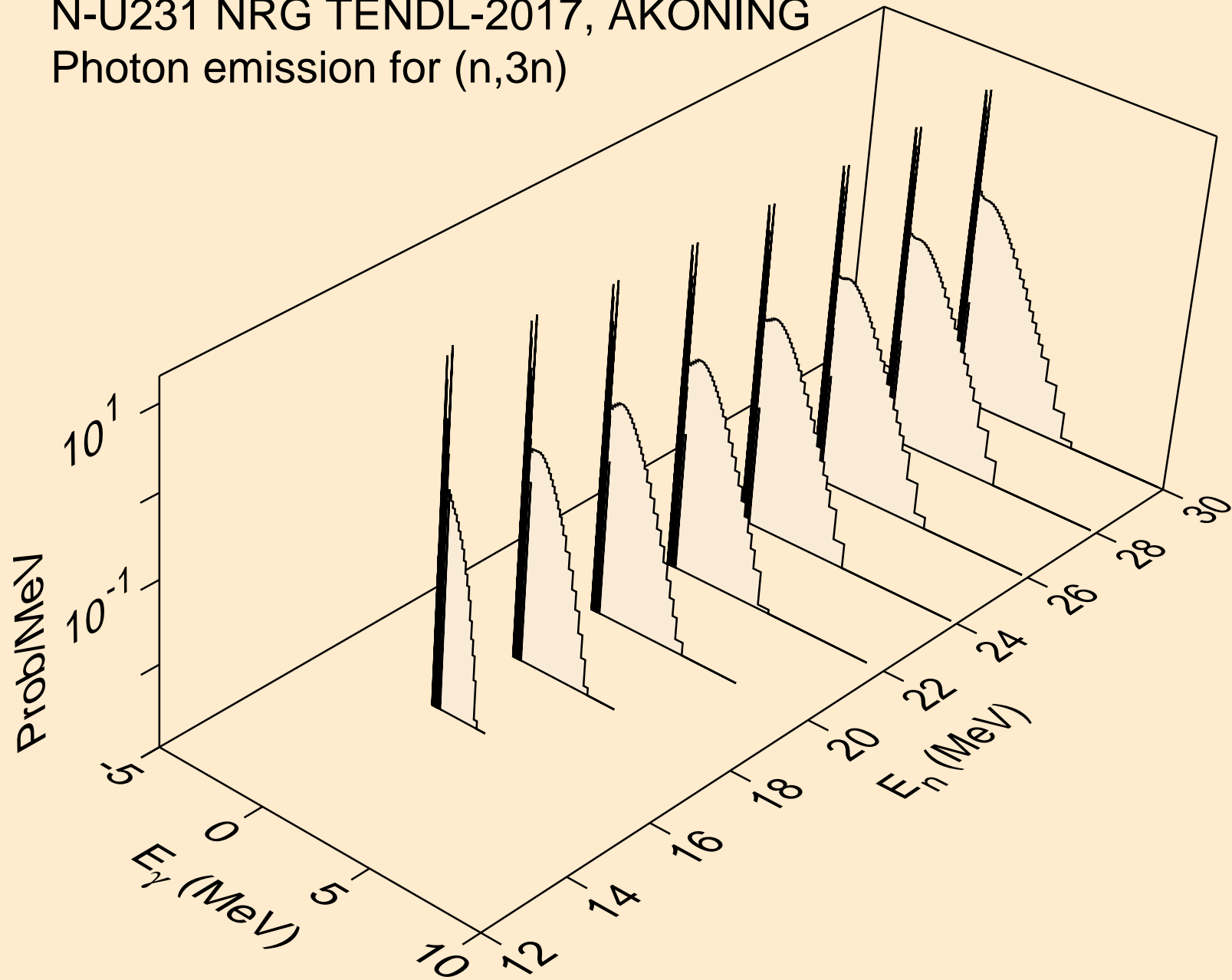
N-U231 NRG TENDL-2017, AKONING  
Photon emission for (n,2nd)



N-U231 NRG TENDL-2017, AKONING  
Photon emission for (n,2n)

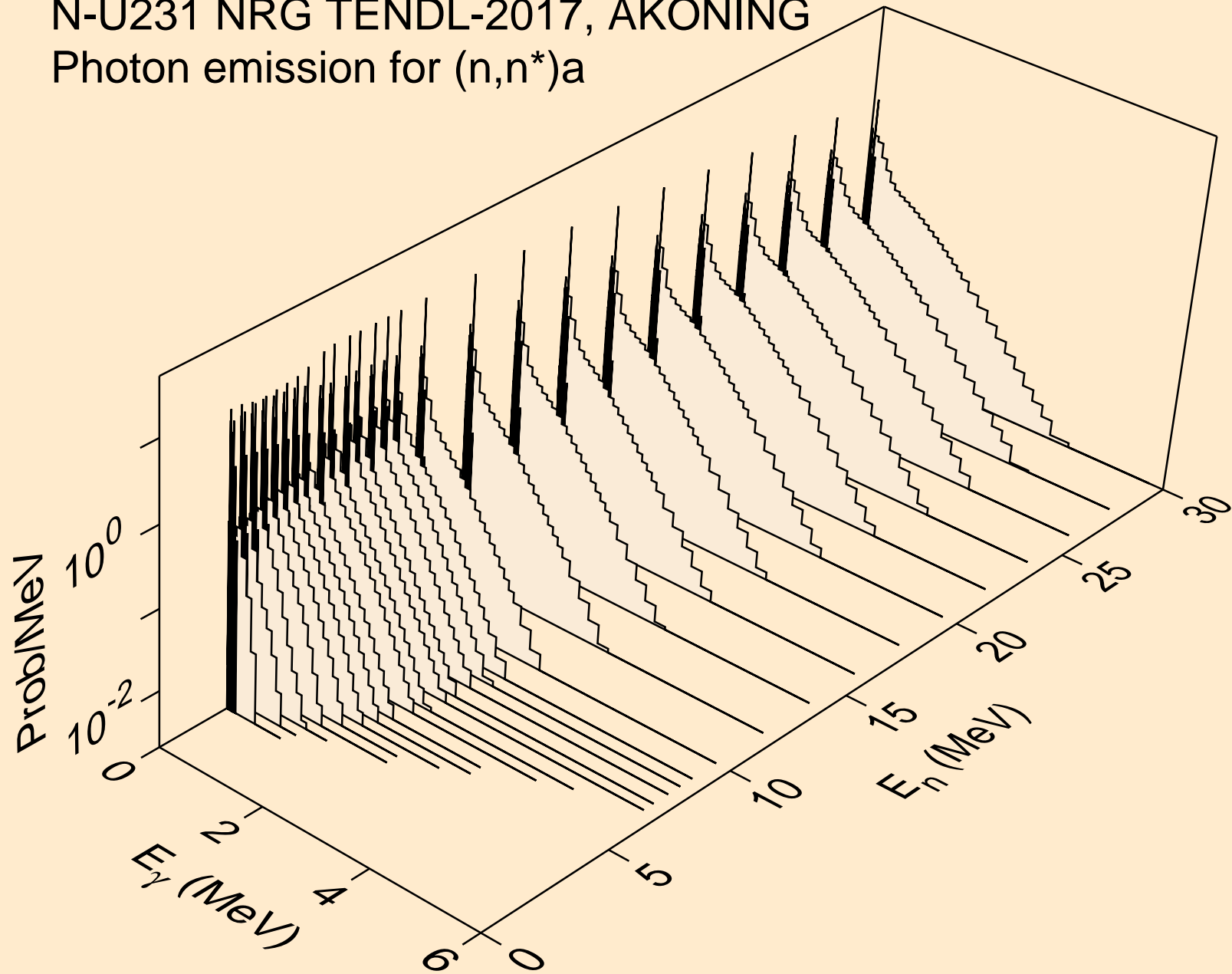


N-U231 NRG TENDL-2017, AKONING  
Photon emission for (n,3n)

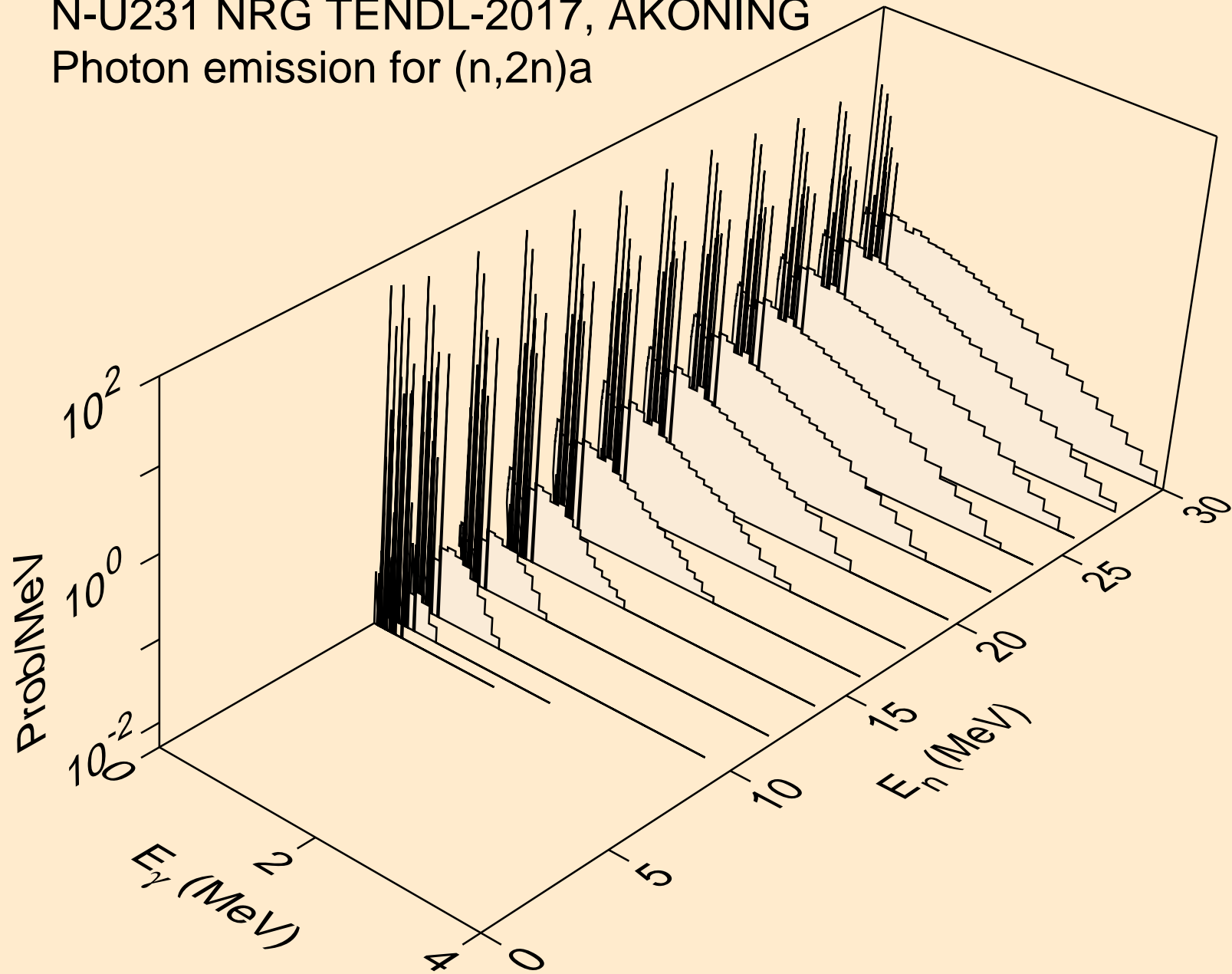




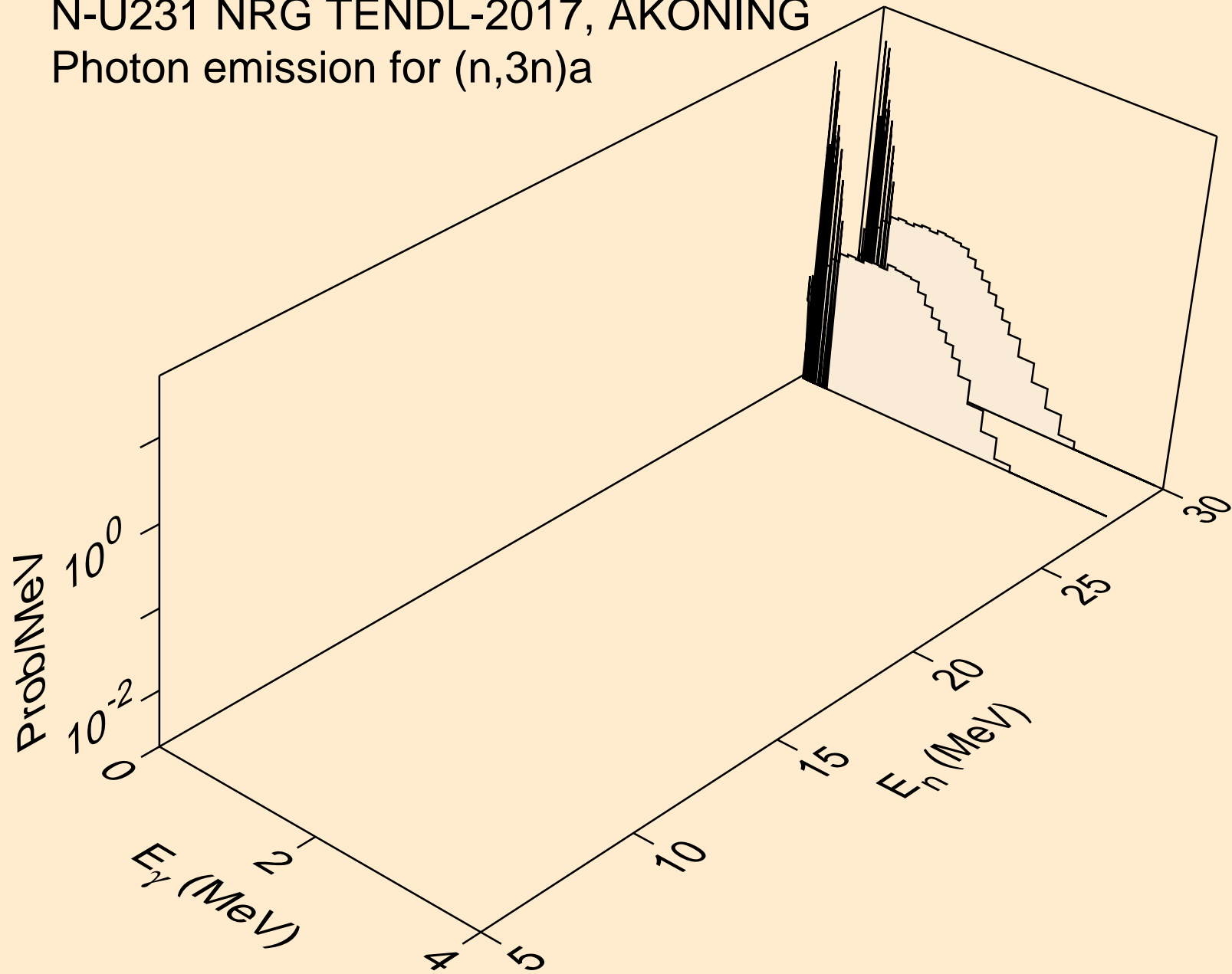
N-U231 NRG TENDL-2017, AKONING  
Photon emission for (n,n\*)a



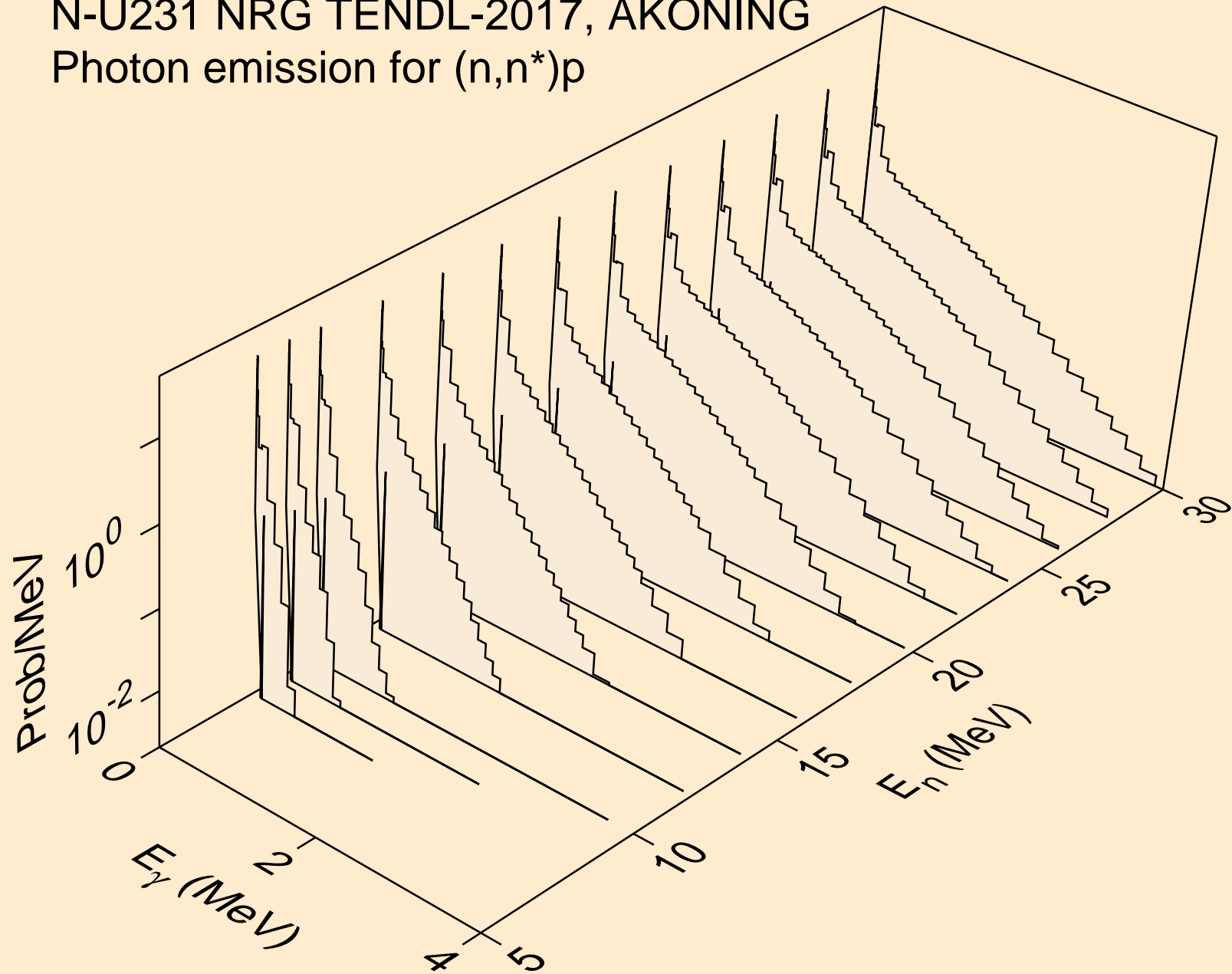
N-U231 NRG TENDL-2017, AKONING  
Photon emission for (n,2n)a



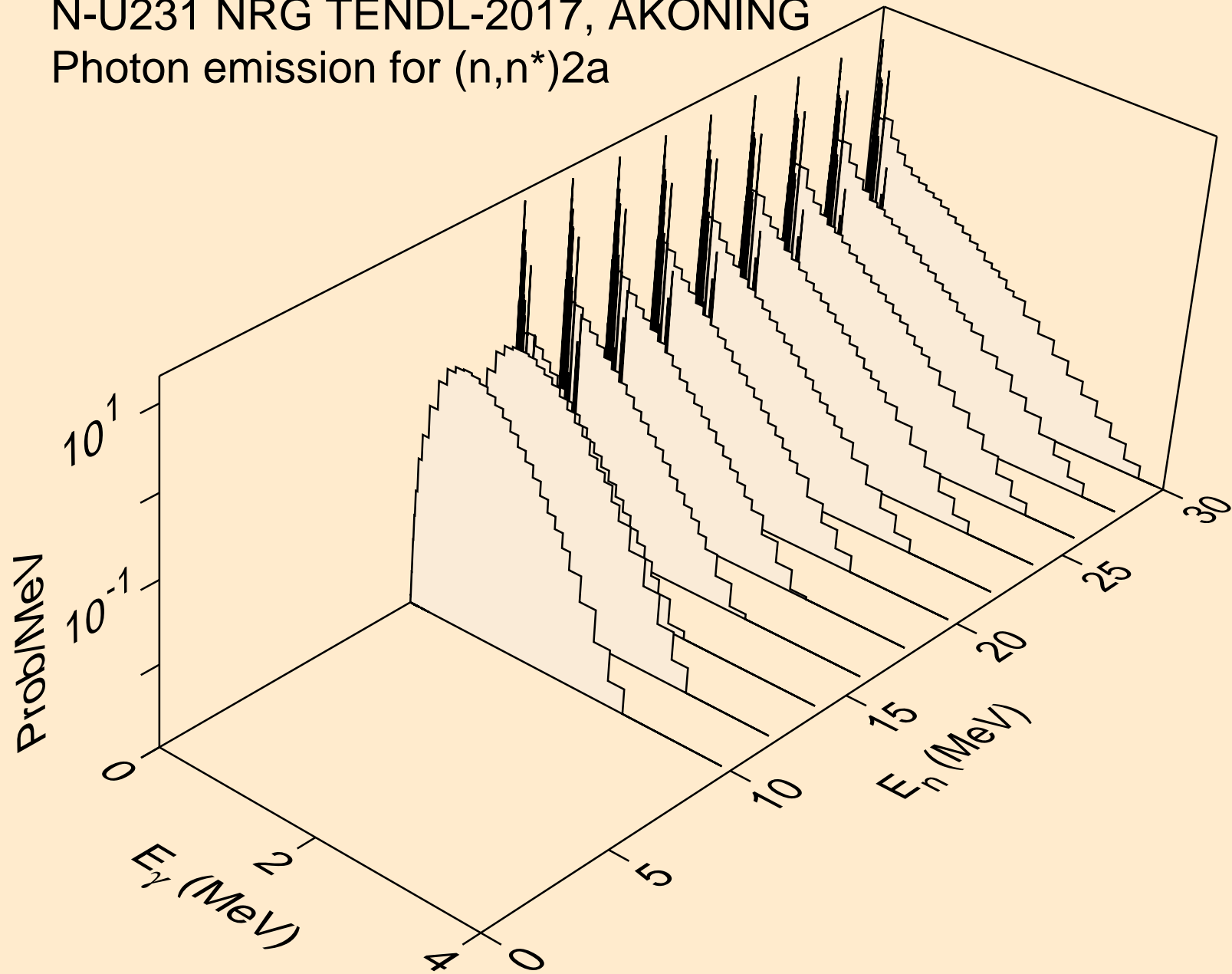
N-U231 NRG TENDL-2017, AKONING  
Photon emission for (n,3n)a



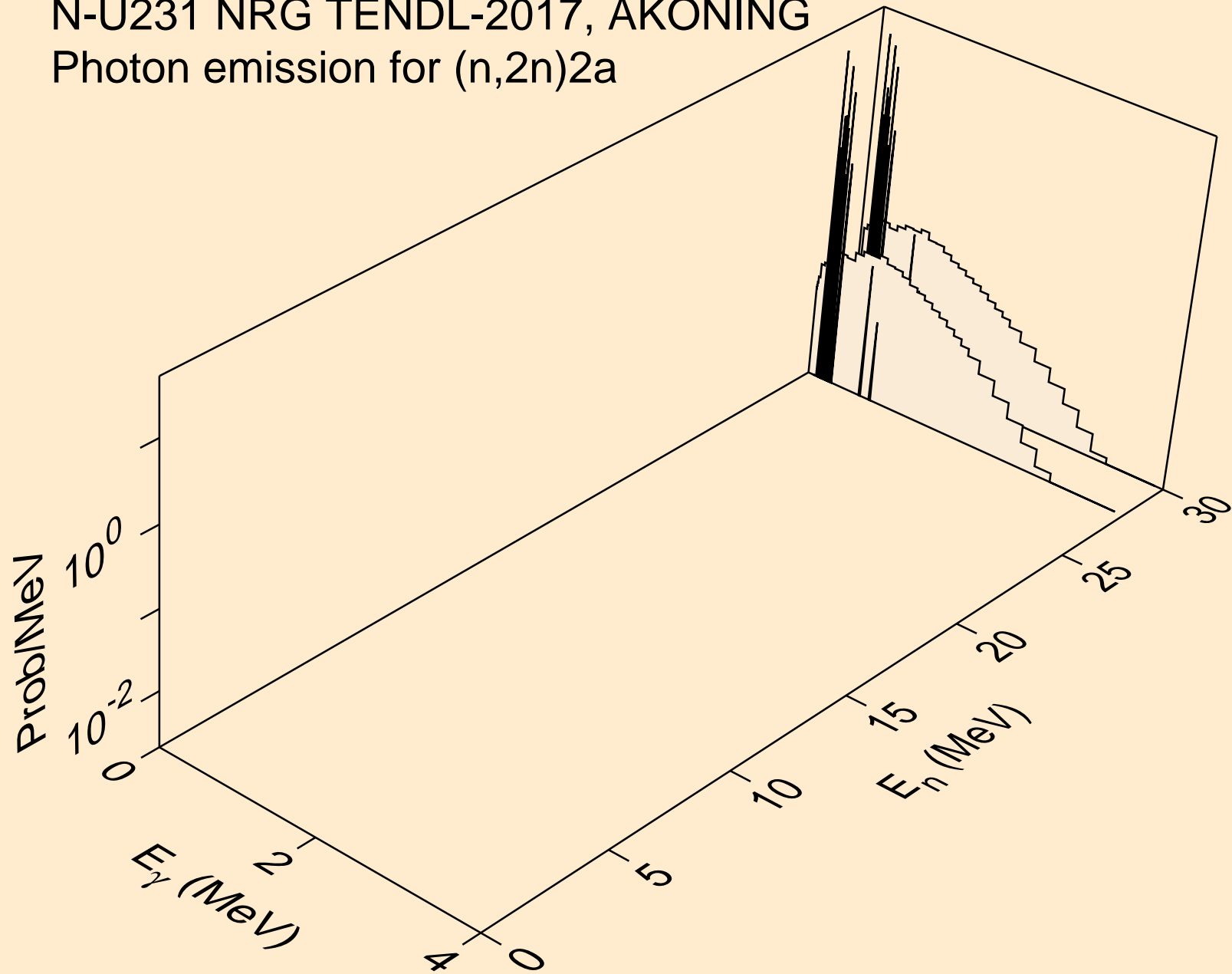
N-U231 NRG TENDL-2017, AKONING  
Photon emission for (n,n\*)p



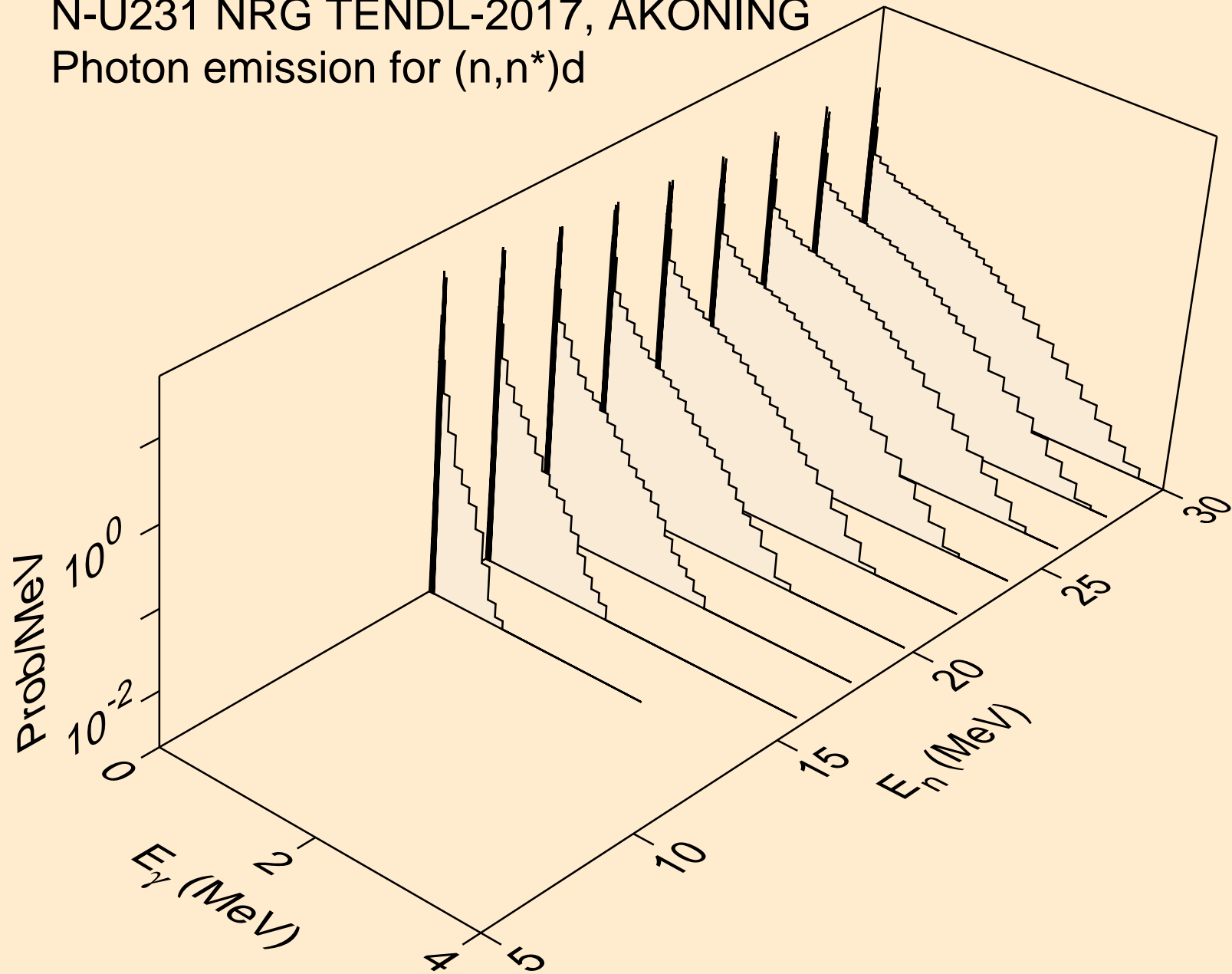
N-U231 NRG TENDL-2017, AKONING  
Photon emission for (n,n\*)2a



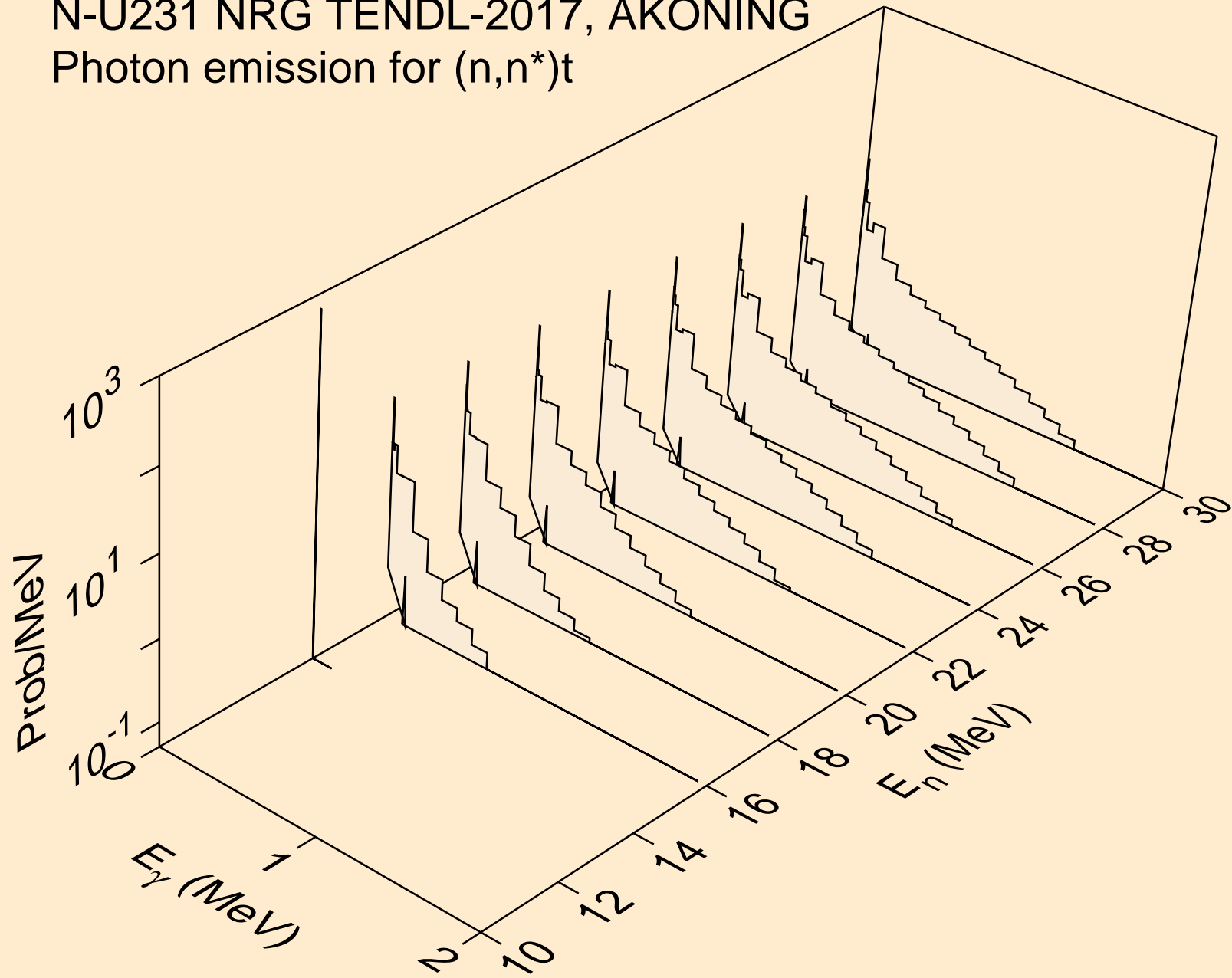
N-U231 NRG TENDL-2017, AKONING  
Photon emission for (n,2n)2a



N-U231 NRG TENDL-2017, AKONING  
Photon emission for (n,n\*)d

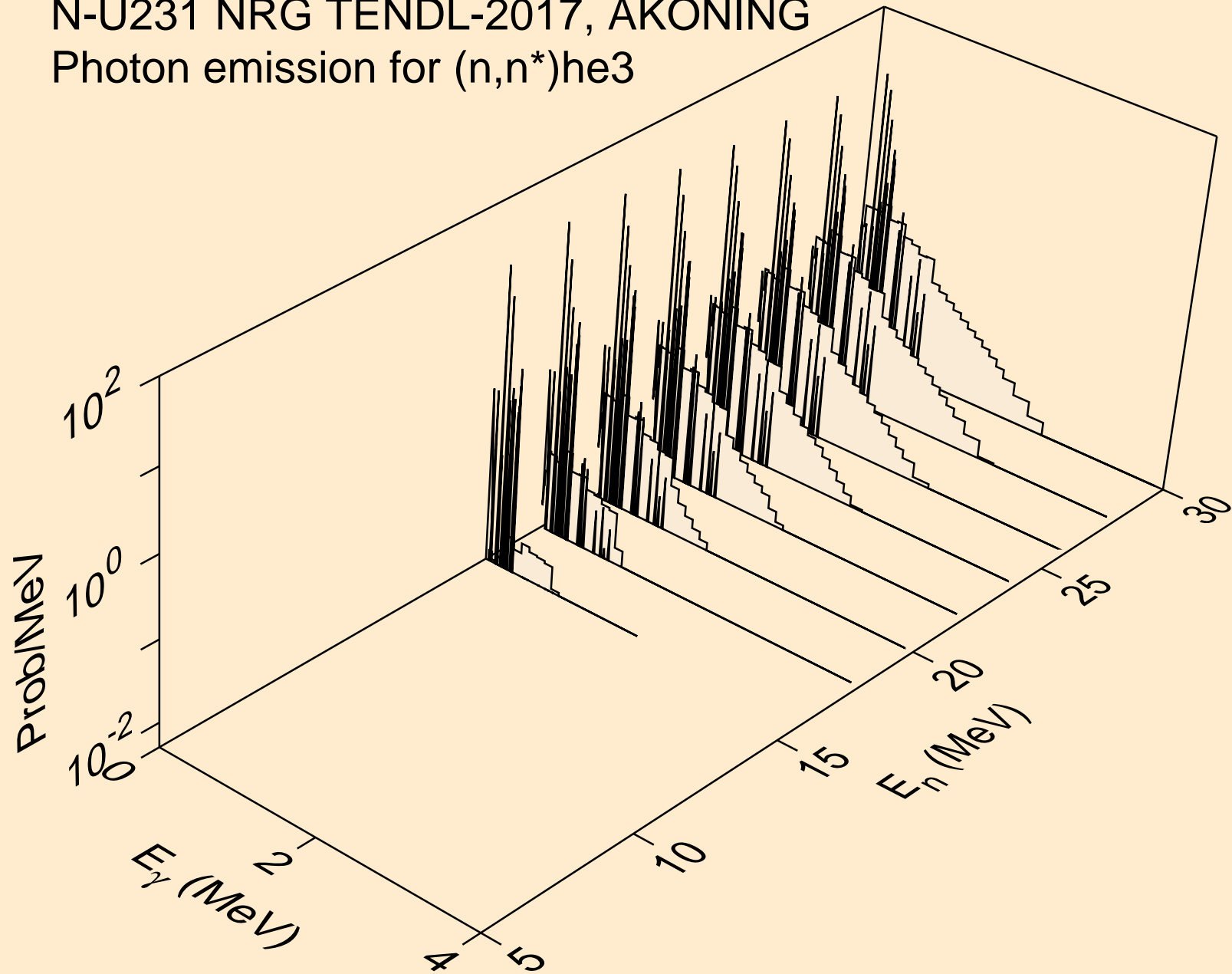


N-U231 NRG TENDL-2017, AKONING  
Photon emission for (n,n\*)t

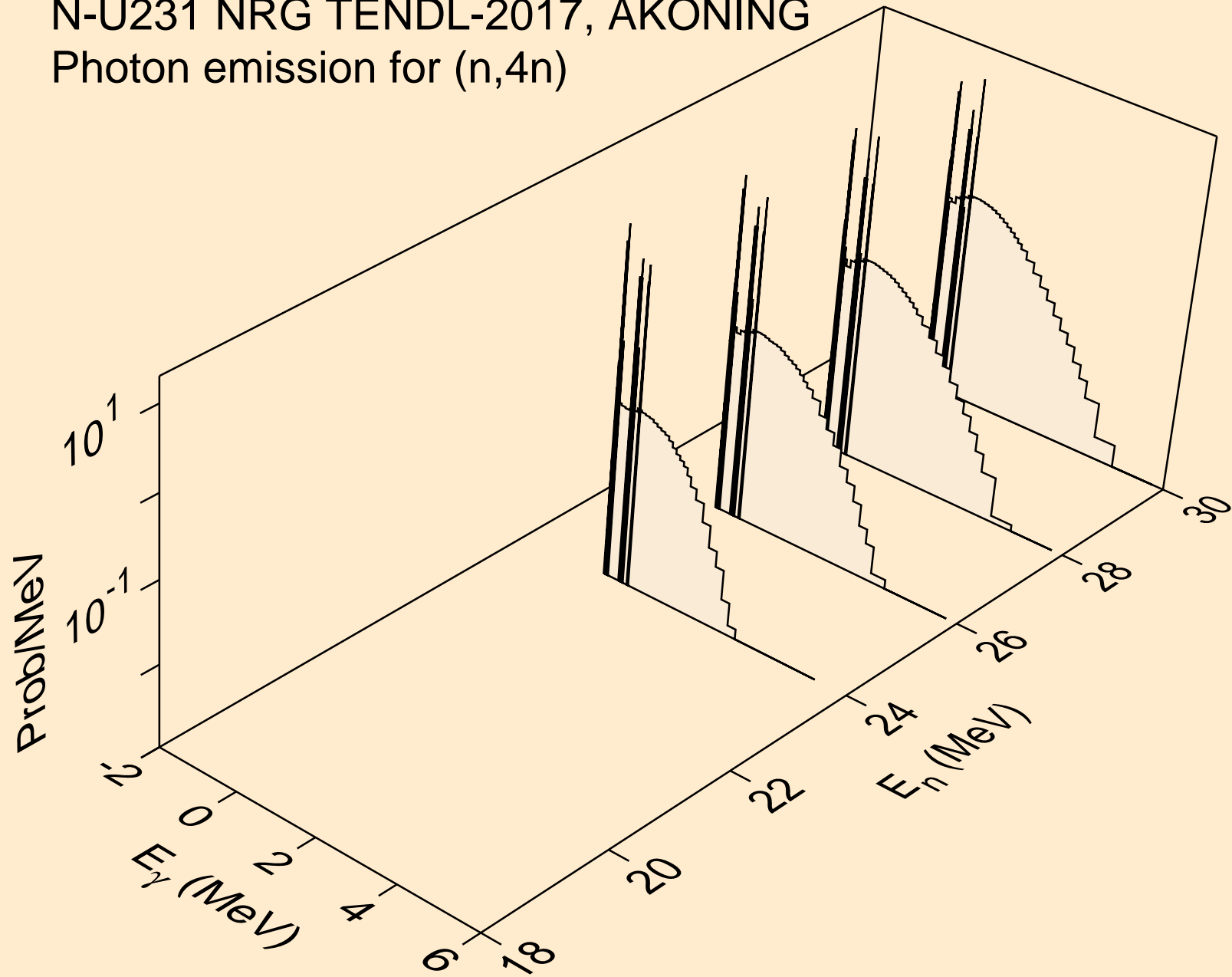




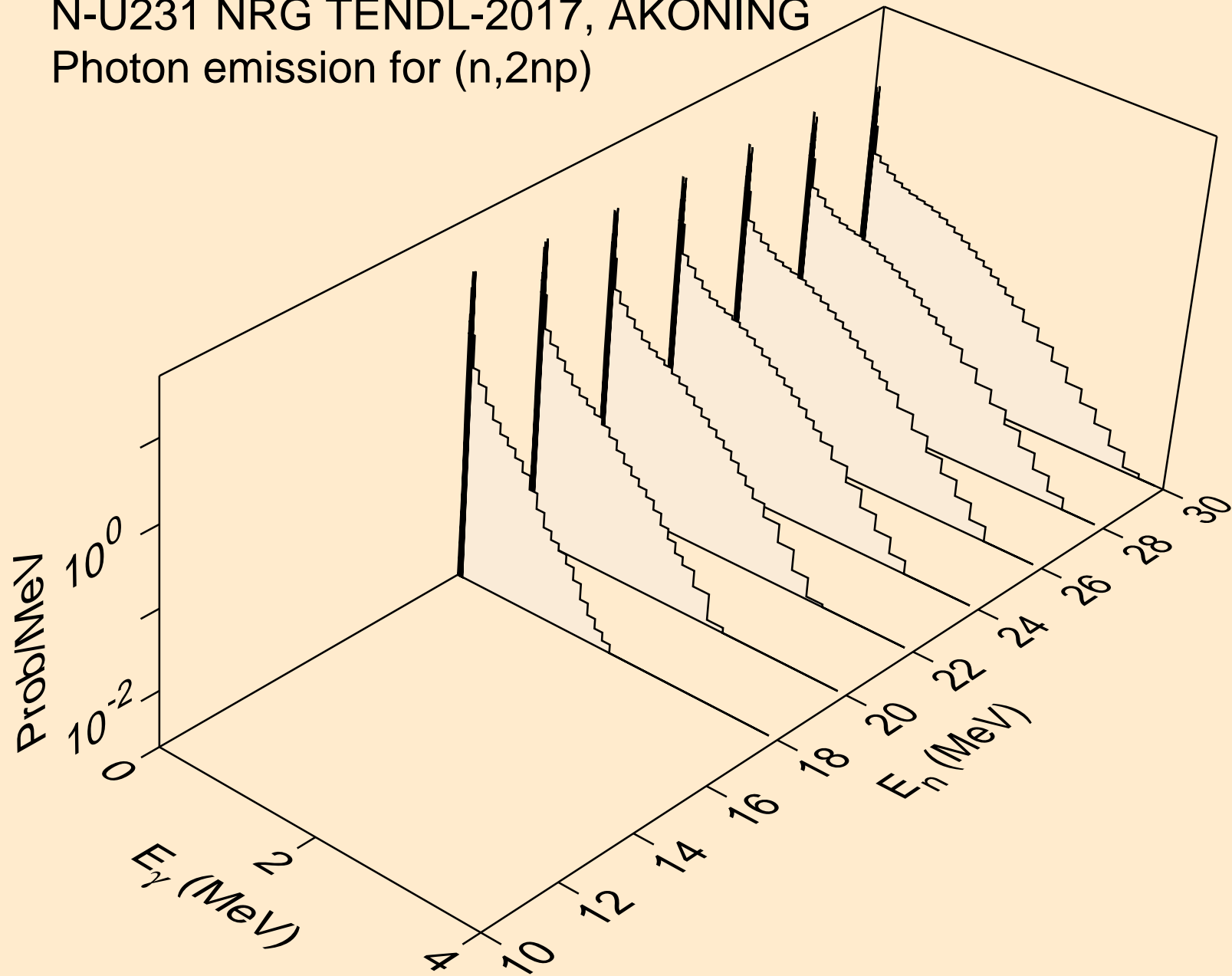
N-U231 NRG TENDL-2017, AKONING  
Photon emission for (n,n\*)he3



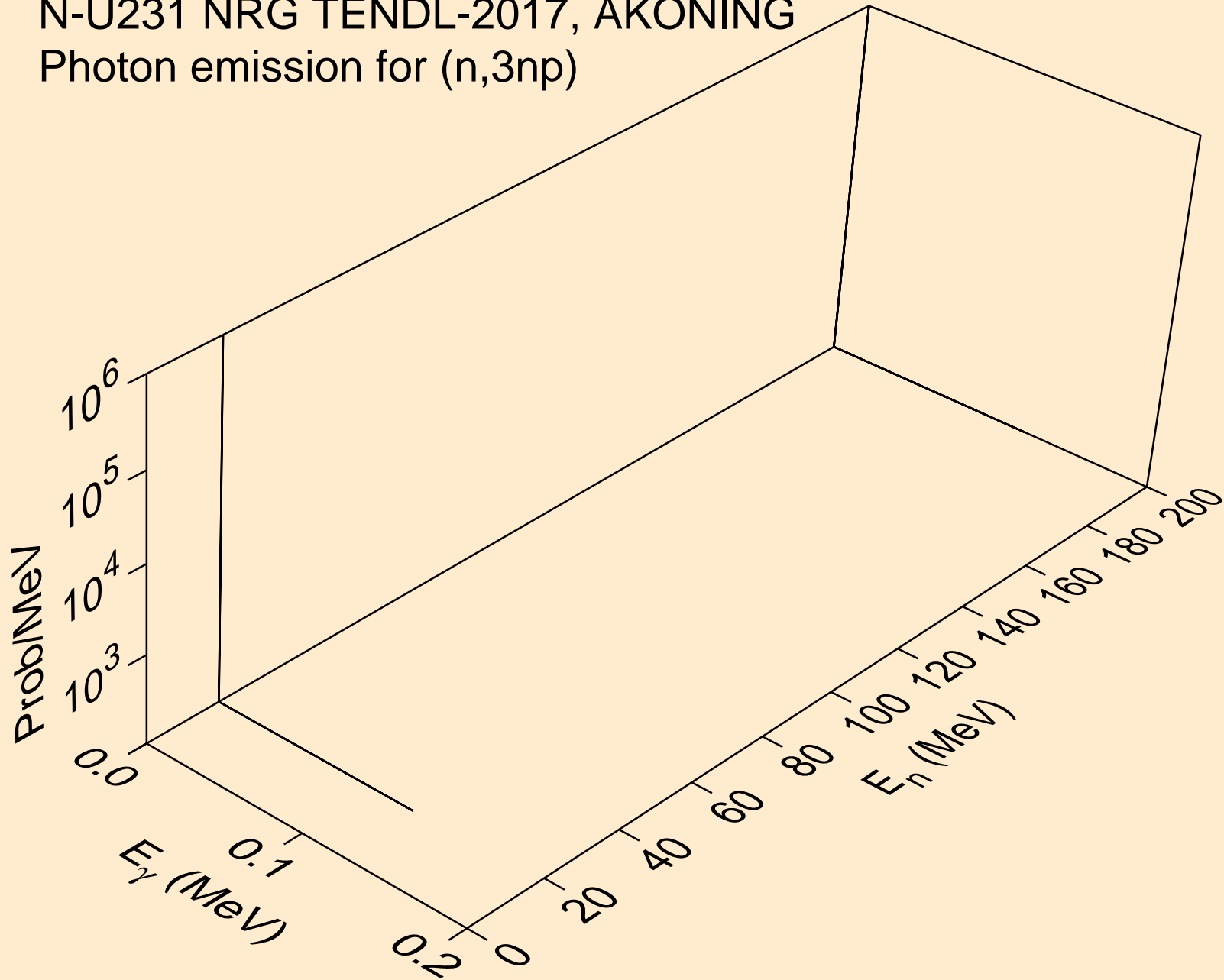
N-U231 NRG TENDL-2017, AKONING  
Photon emission for (n,4n)



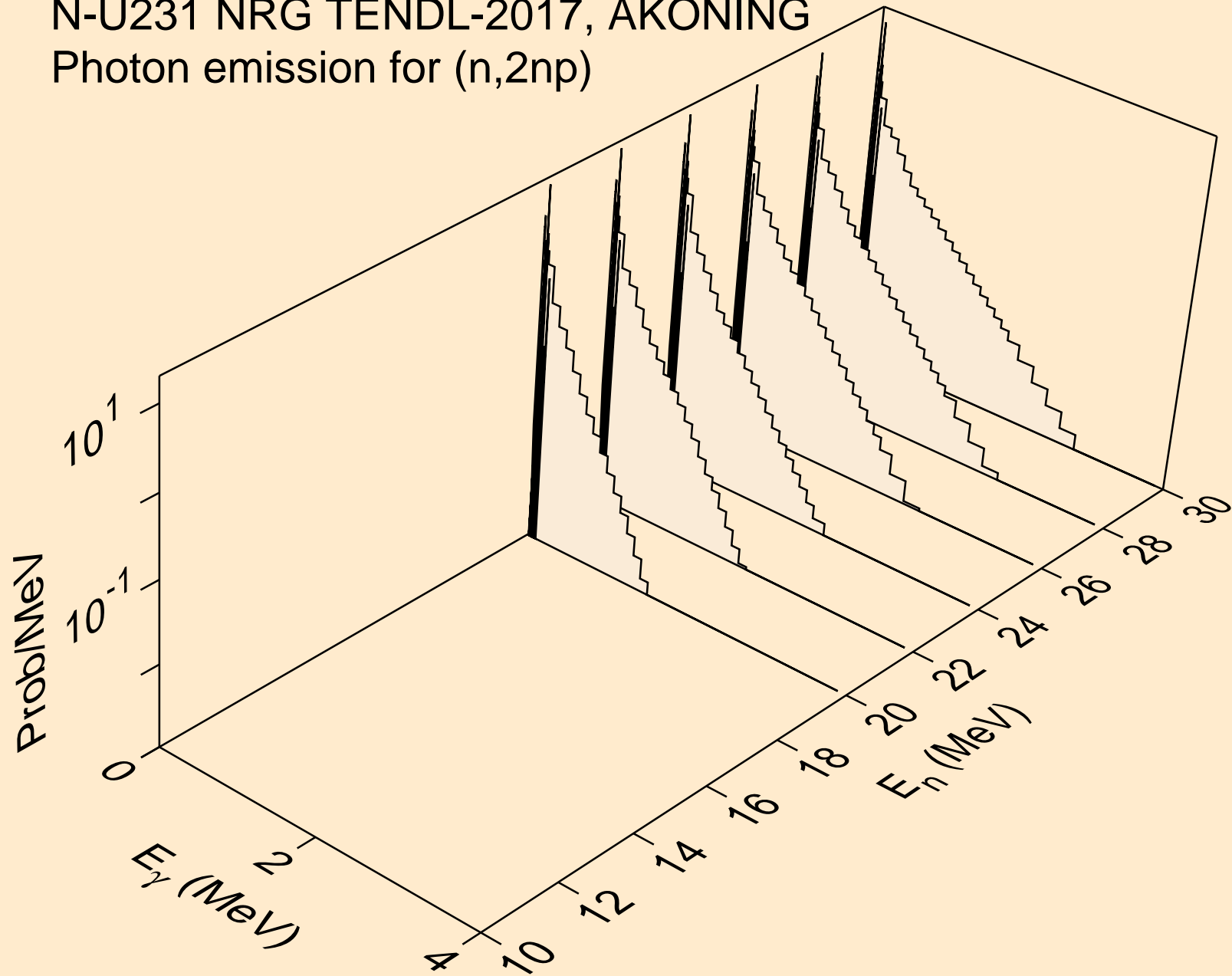
N-U231 NRG TENDL-2017, AKONING  
Photon emission for (n,2np)



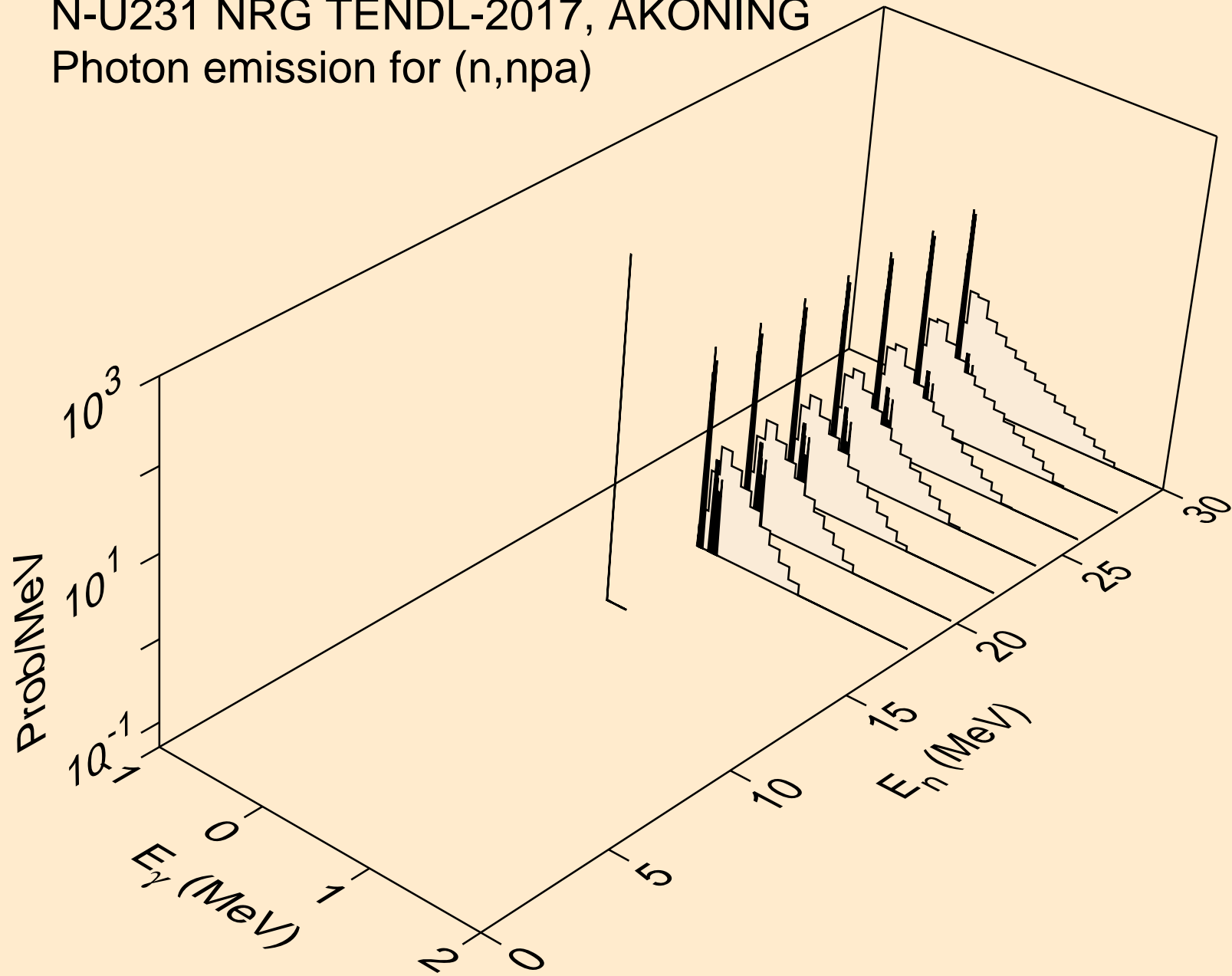
N-U231 NRG TENDL-2017, AKONING  
Photon emission for (n,3np)



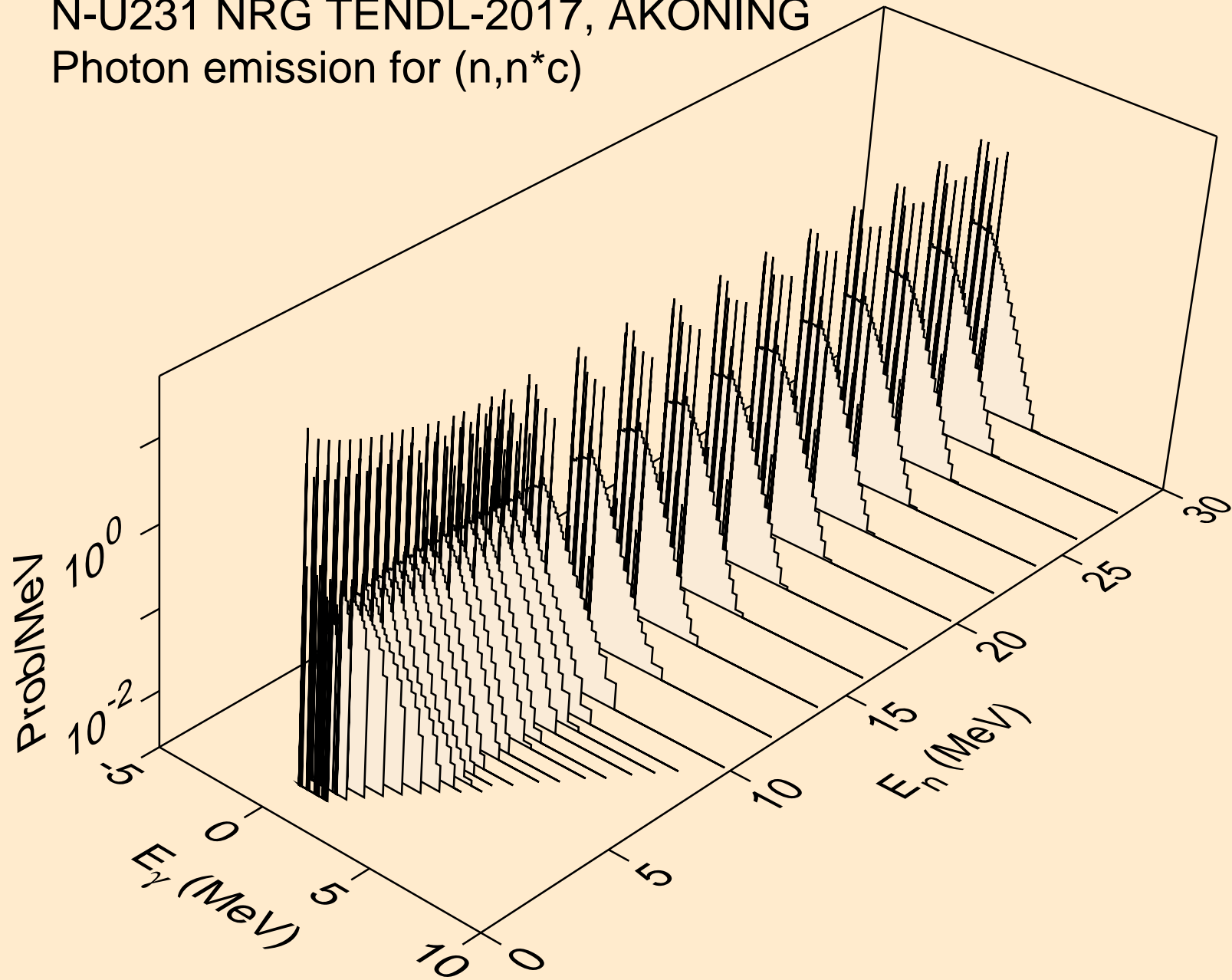
N-U231 NRG TENDL-2017, AKONING  
Photon emission for (n,2np)



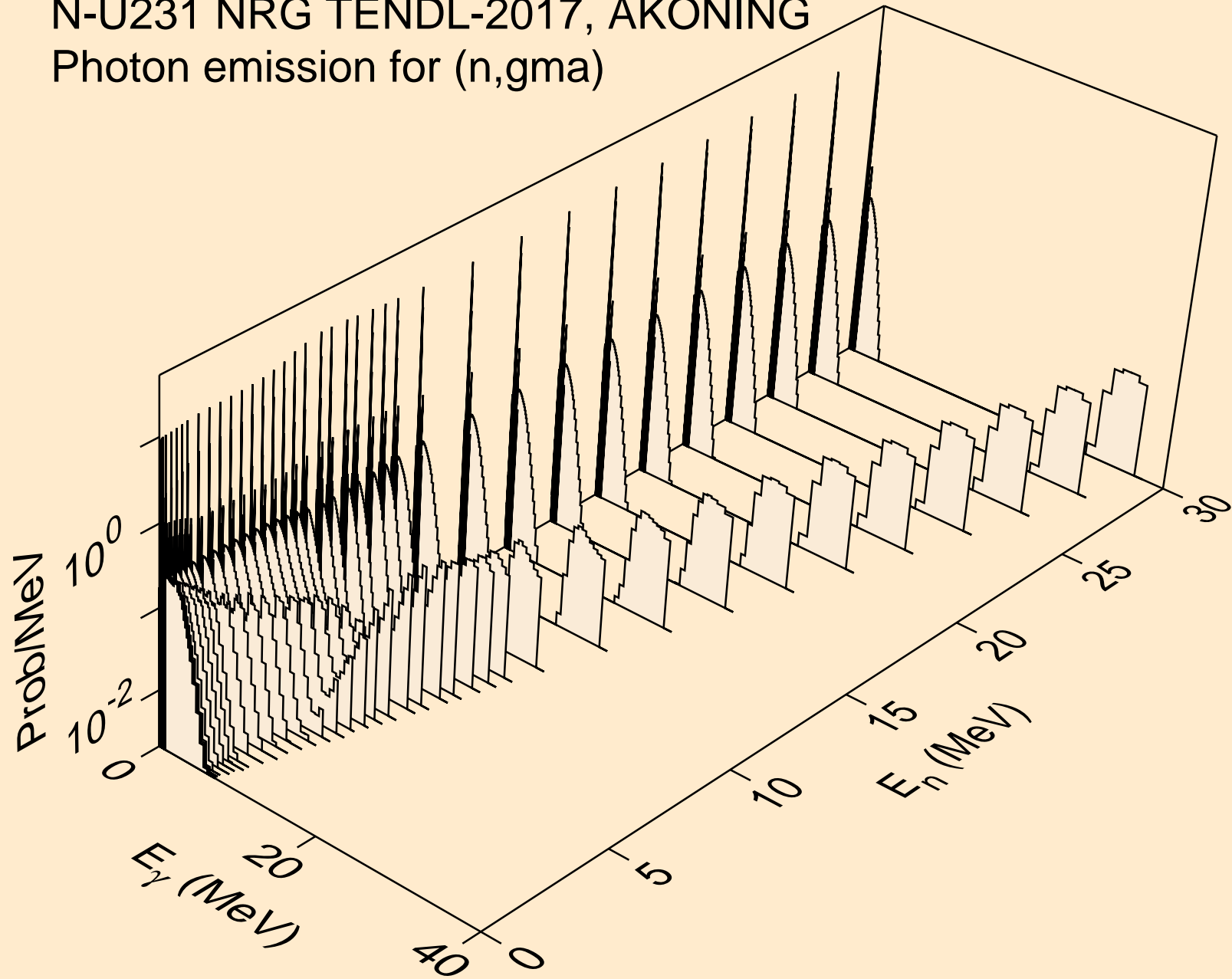
N-U231 NRG TENDL-2017, AKONING  
Photon emission for (n,npa)



N-U231 NRG TENDL-2017, AKONING  
Photon emission for (n,n\*c)

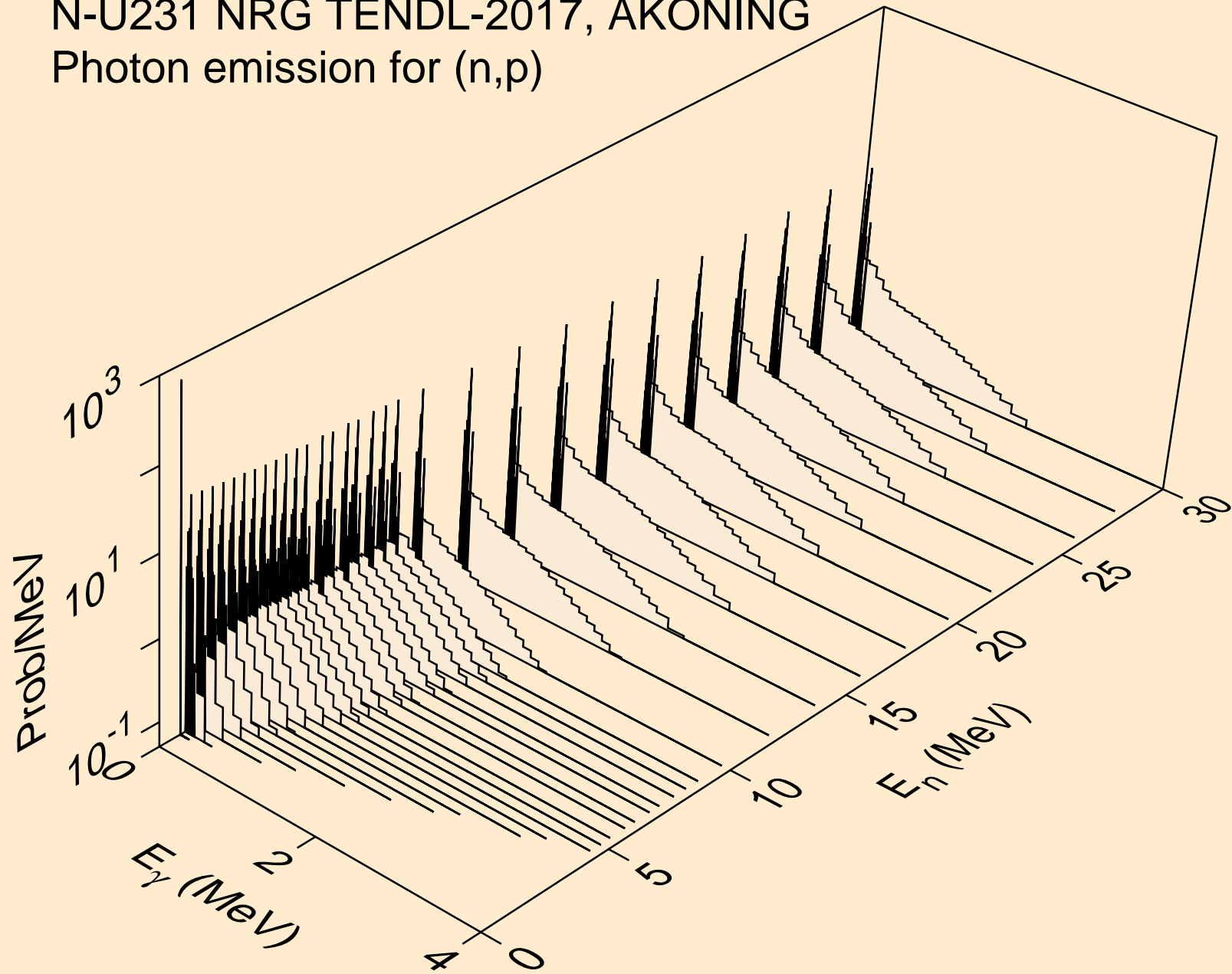


N-U231 NRG TENDL-2017, AKONING  
Photon emission for (n,gma)

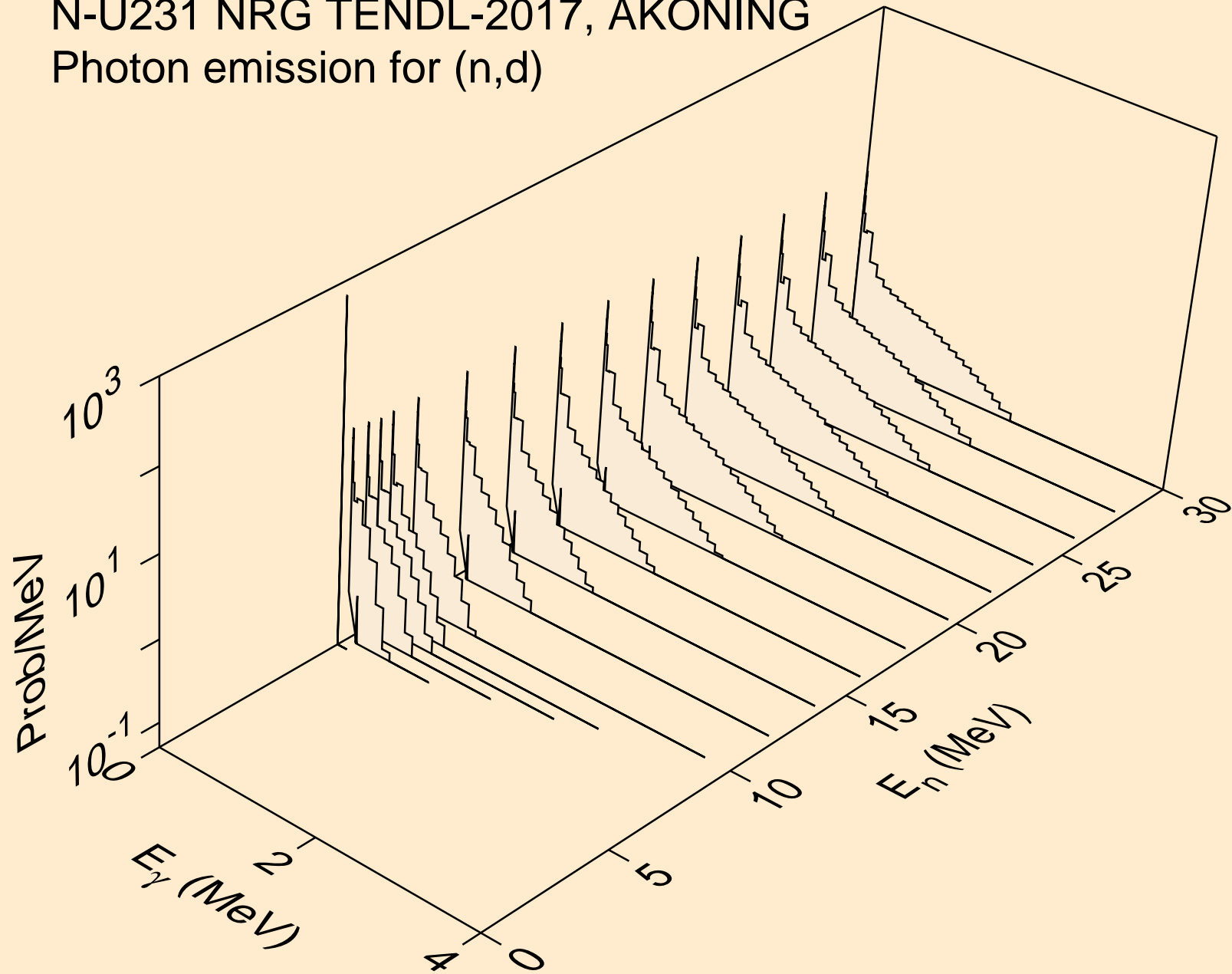




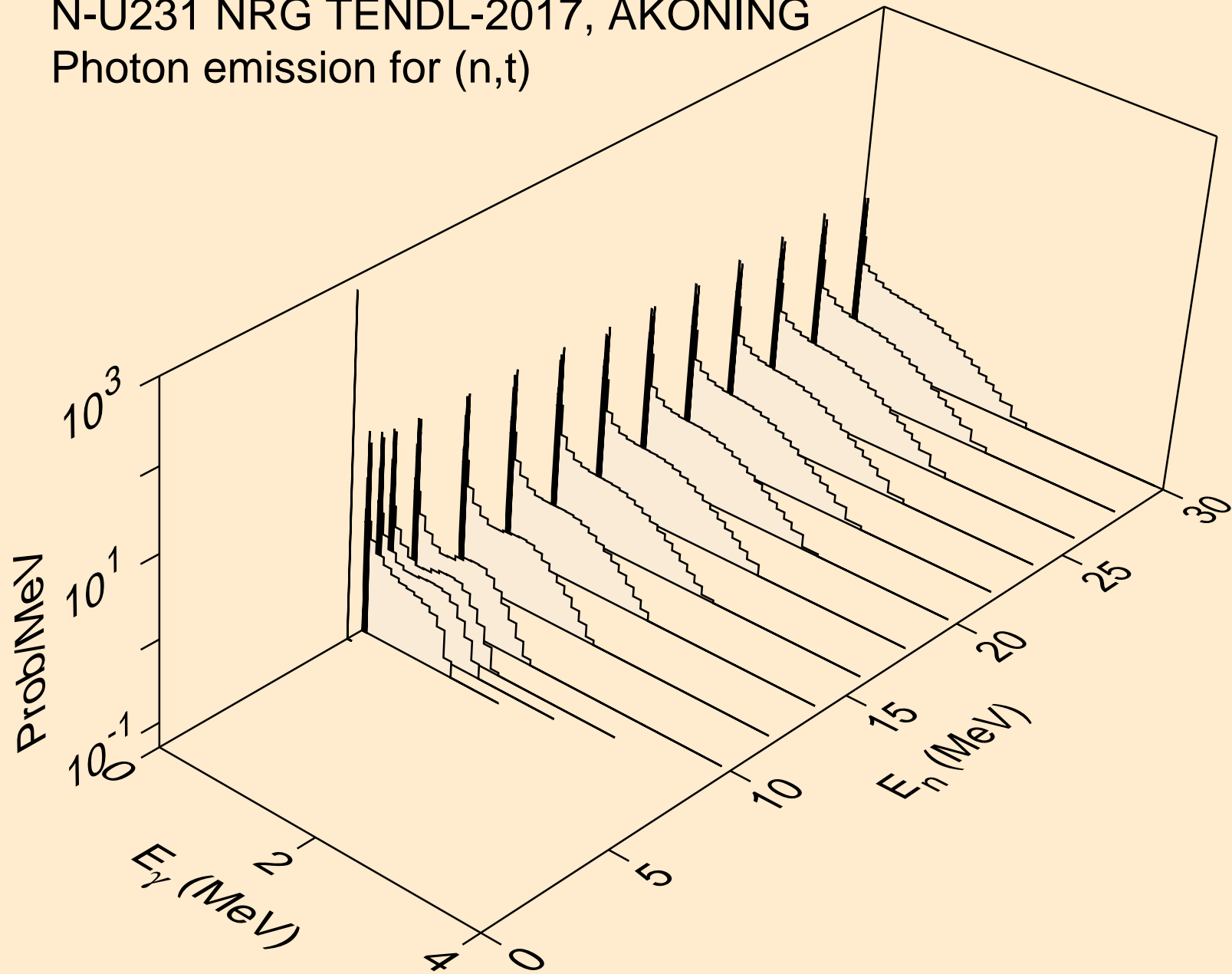
N-U231 NRG TENDL-2017, AKONING  
Photon emission for (n,p)



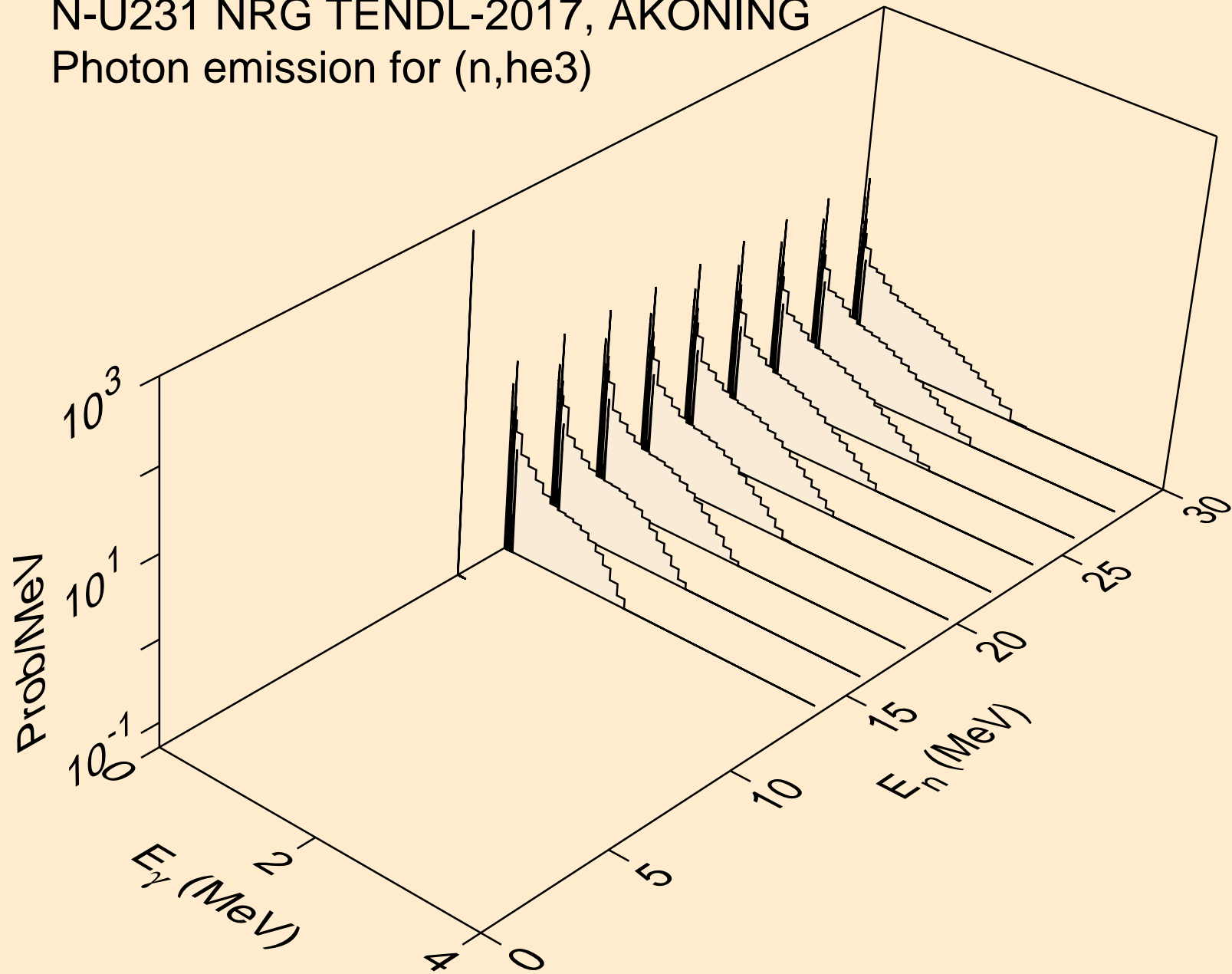
N-U231 NRG TENDL-2017, AKONING  
Photon emission for (n,d)



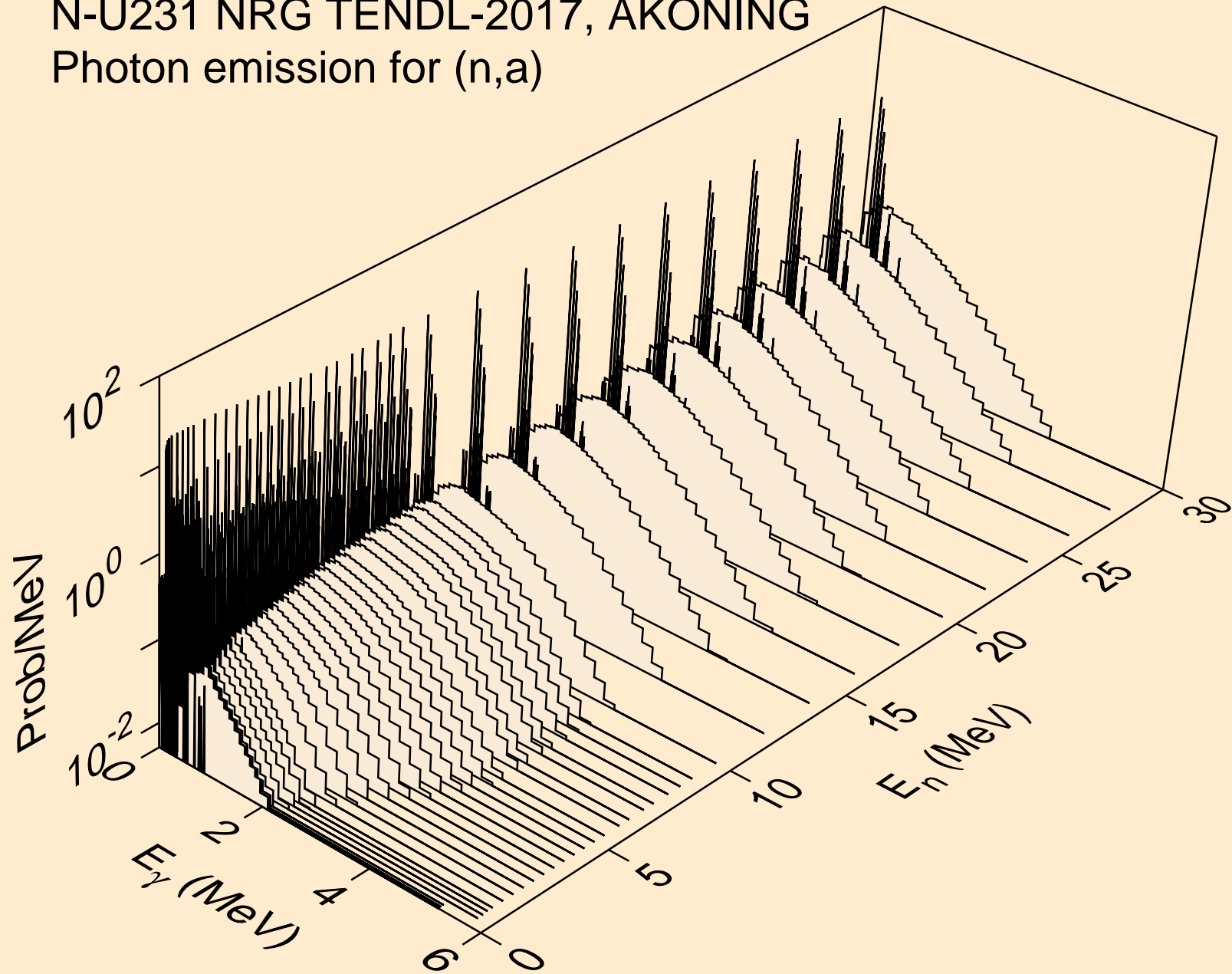
N-U231 NRG TENDL-2017, AKONING  
Photon emission for (n,t)



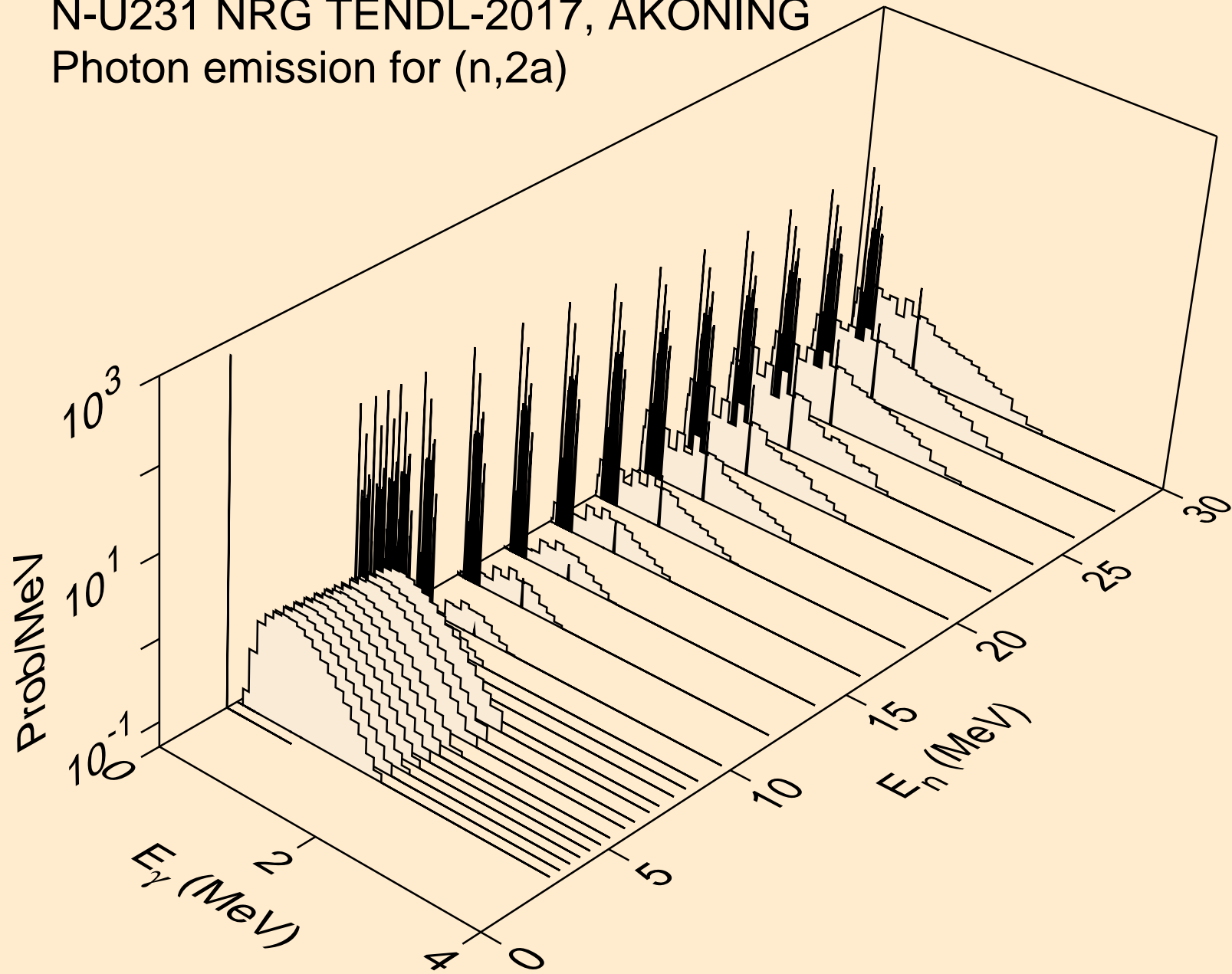
N-U231 NRG TENDL-2017, AKONING  
Photon emission for (n,he3)



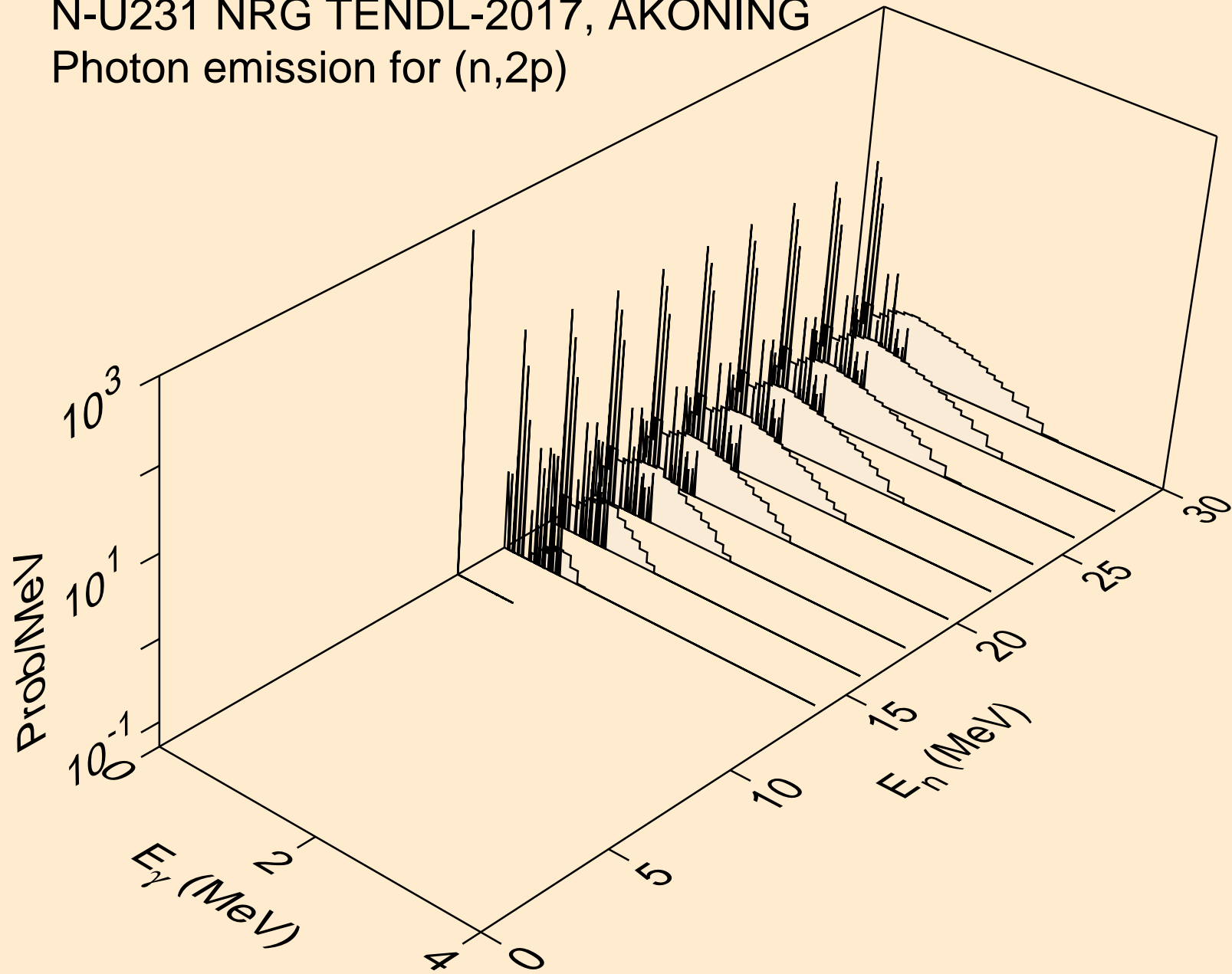
N-U231 NRG TENDL-2017, AKONING  
Photon emission for (n,a)



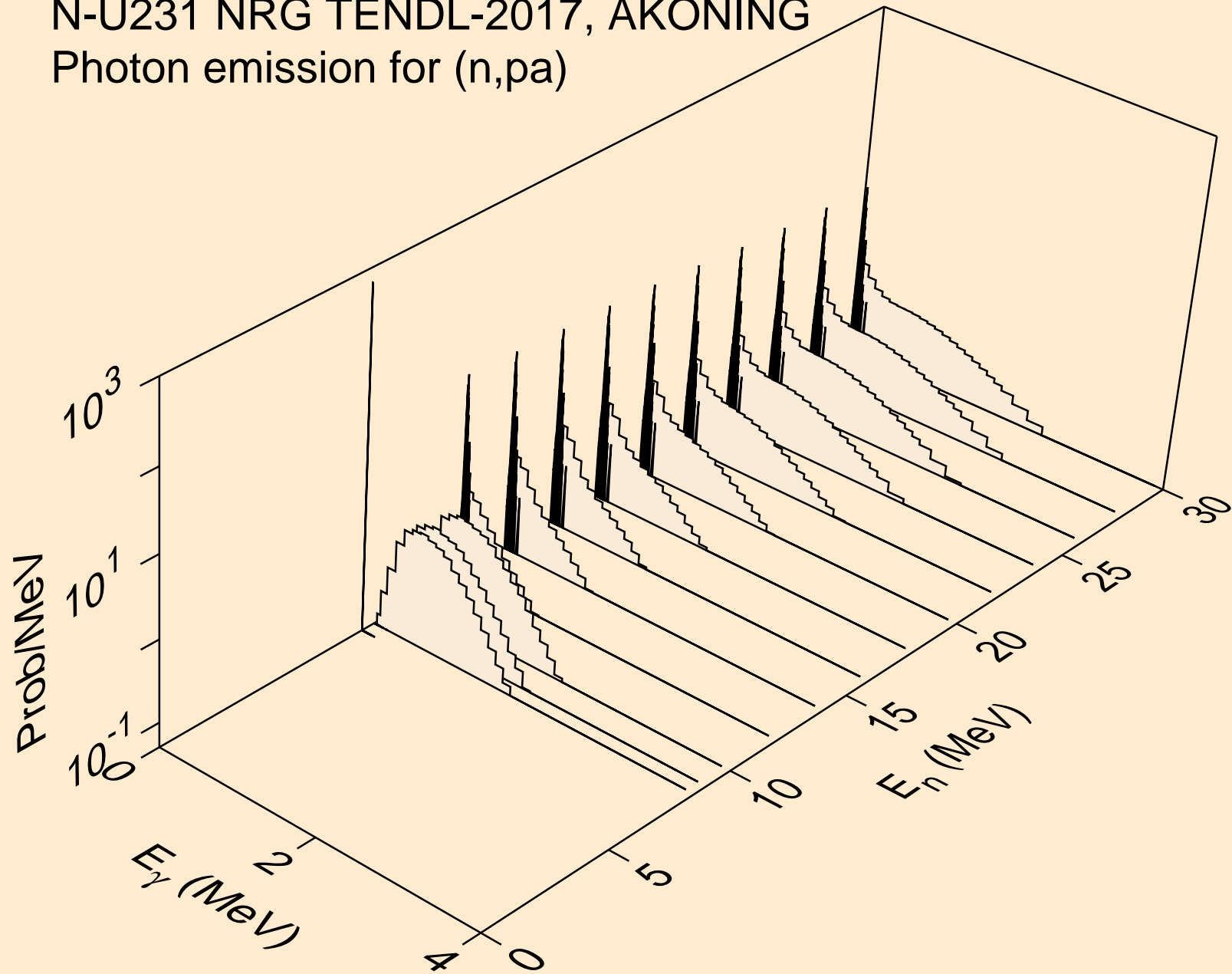
N-U231 NRG TENDL-2017, AKONING  
Photon emission for (n,2a)



N-U231 NRG TENDL-2017, AKONING  
Photon emission for (n,2p)

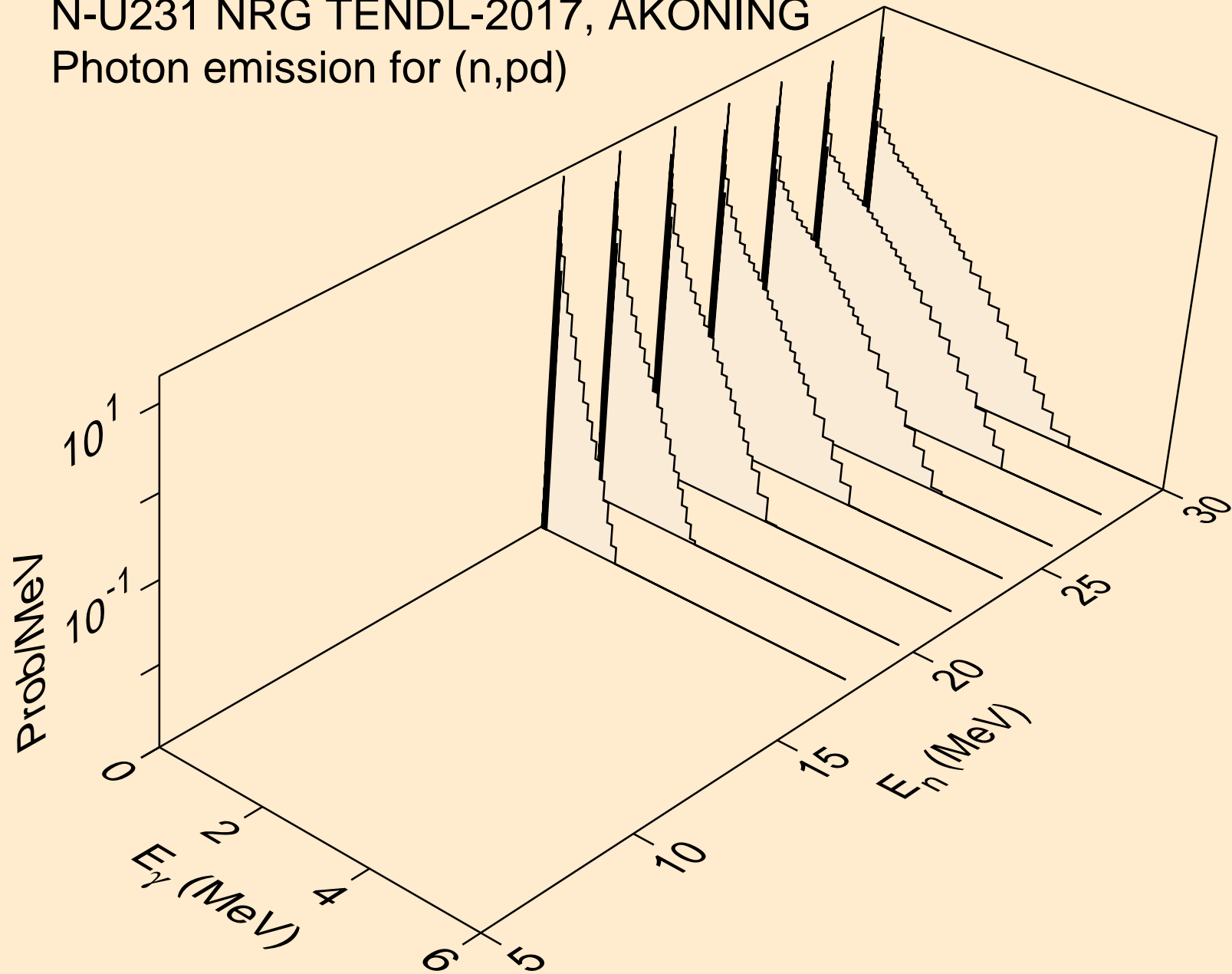


N-U231 NRG TENDL-2017, AKONING  
Photon emission for (n,pa)

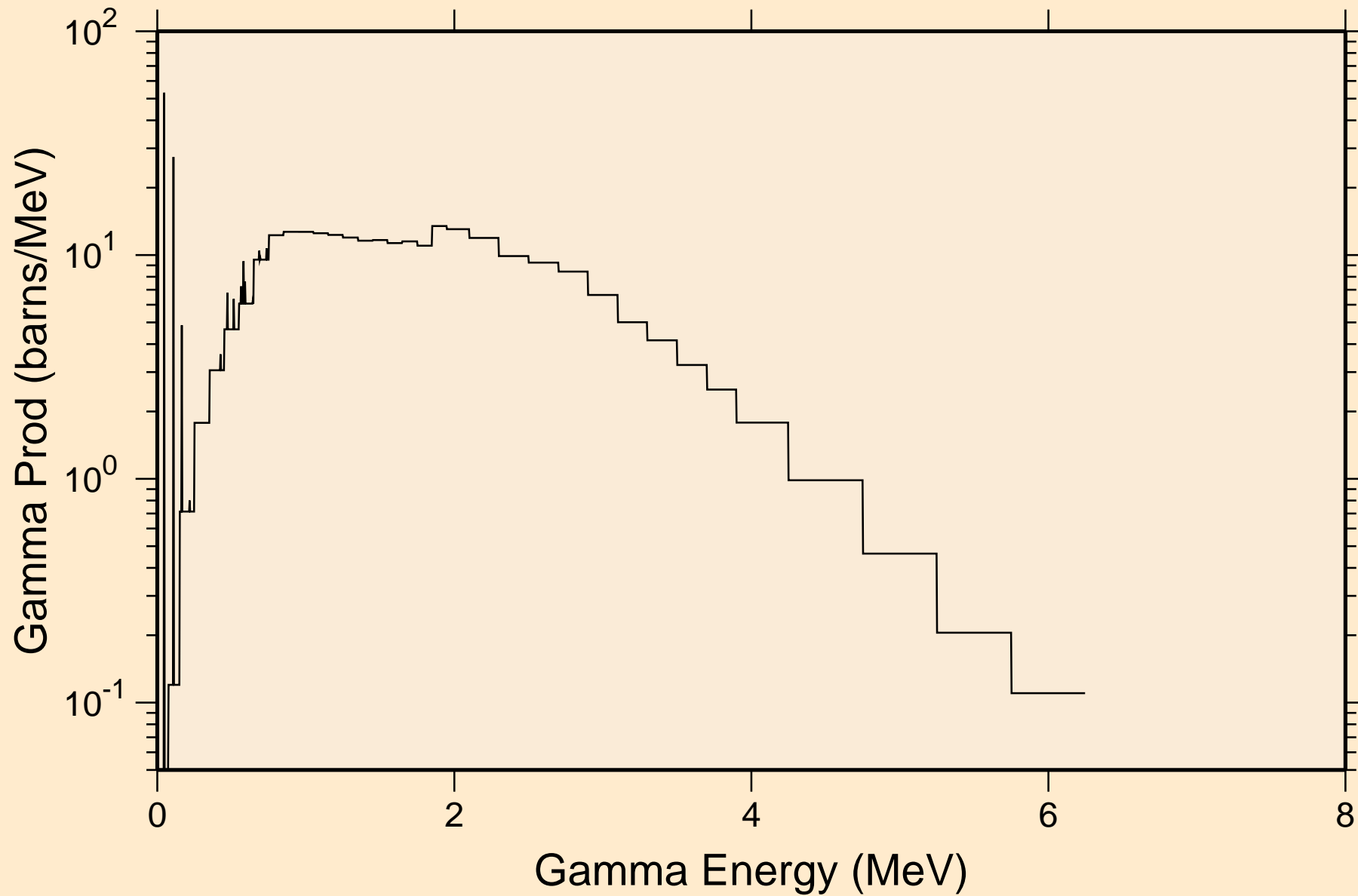




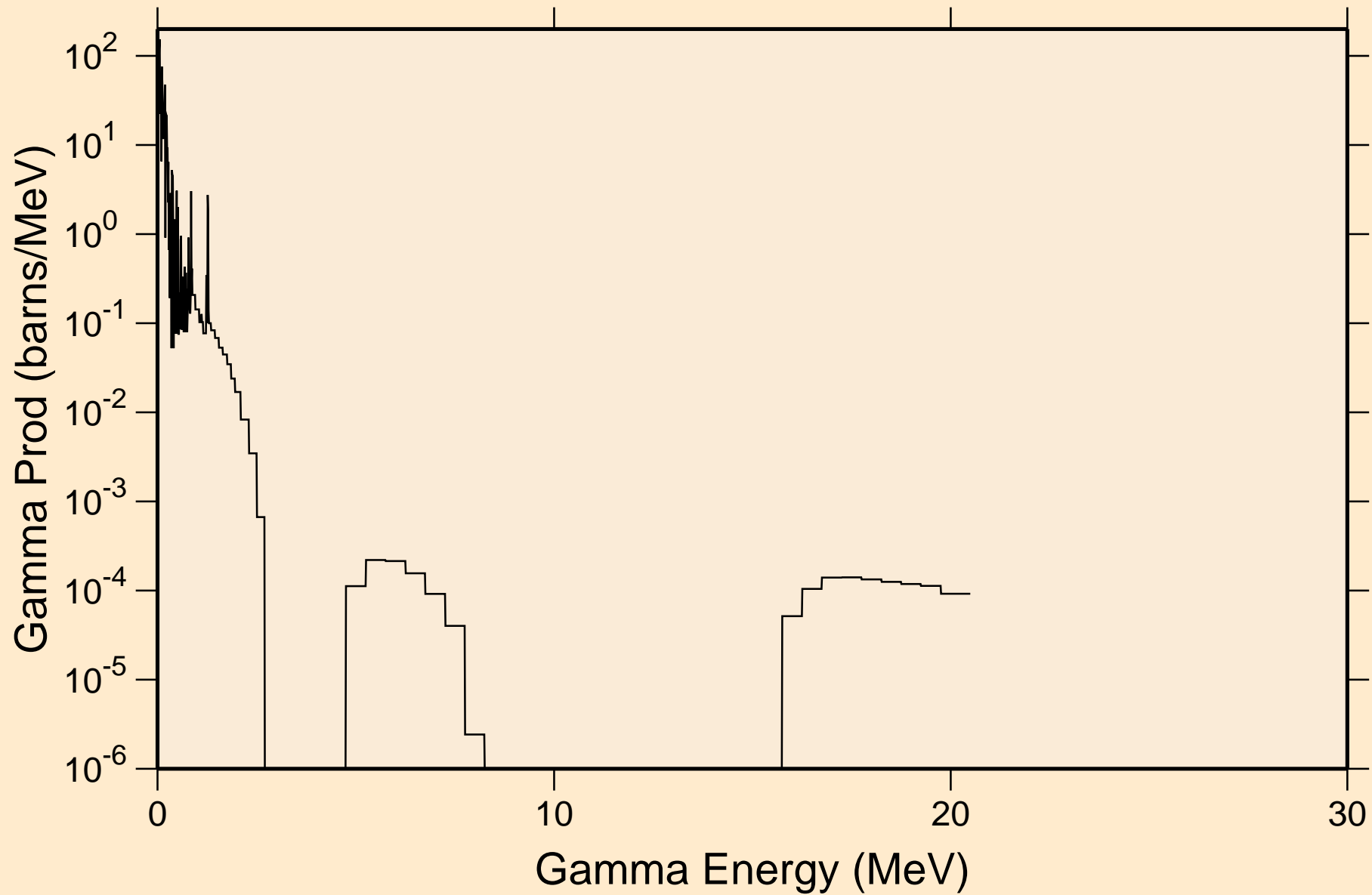
N-U231 NRG TENDL-2017, AKONING  
Photon emission for (n,pd)



N-U231 NRG TENDL-2017, AKONING  
thermal capture photon spectrum

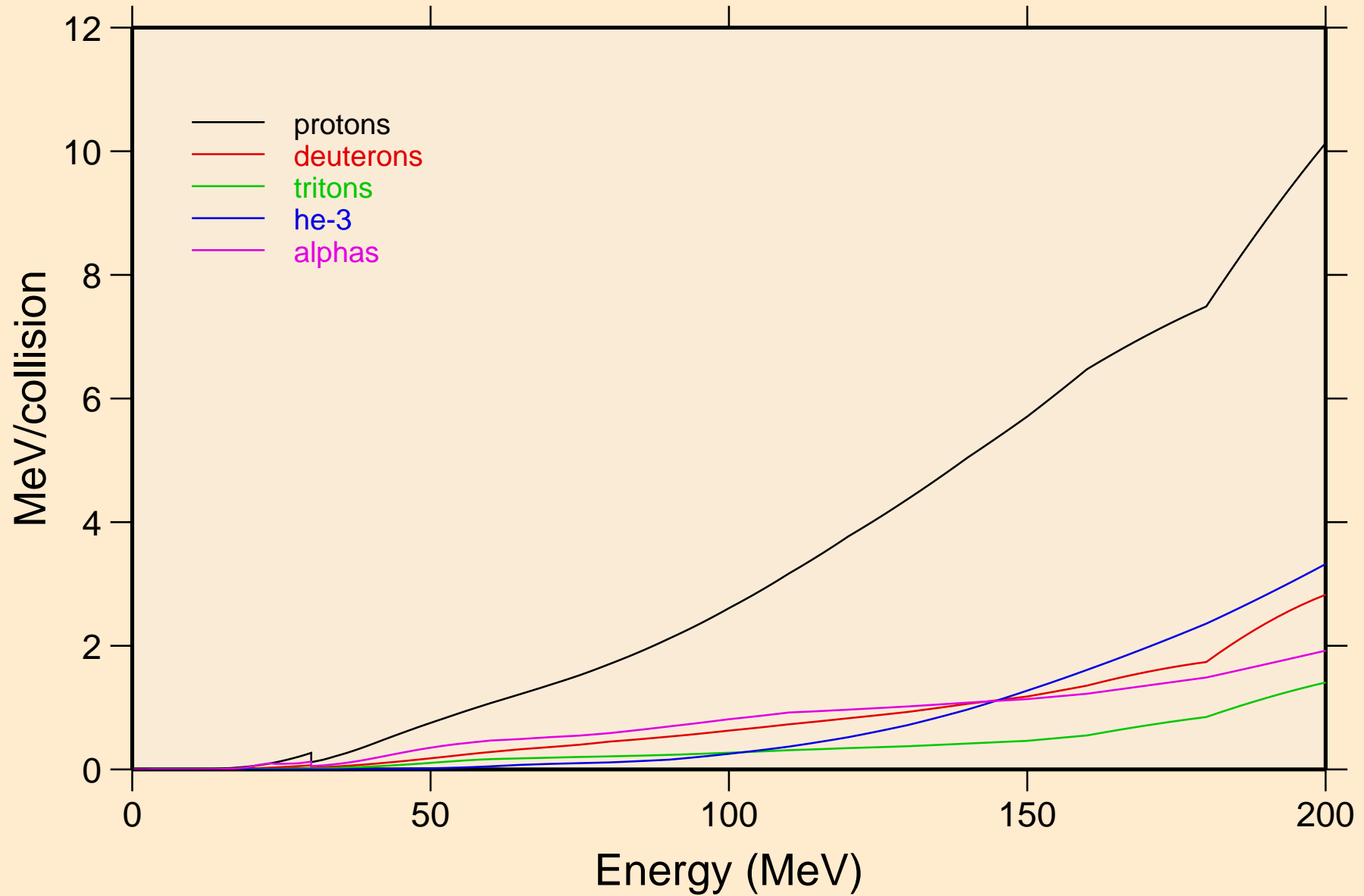


N-U231 NRG TENDL-2017, AKONING  
14 MeV photon spectrum



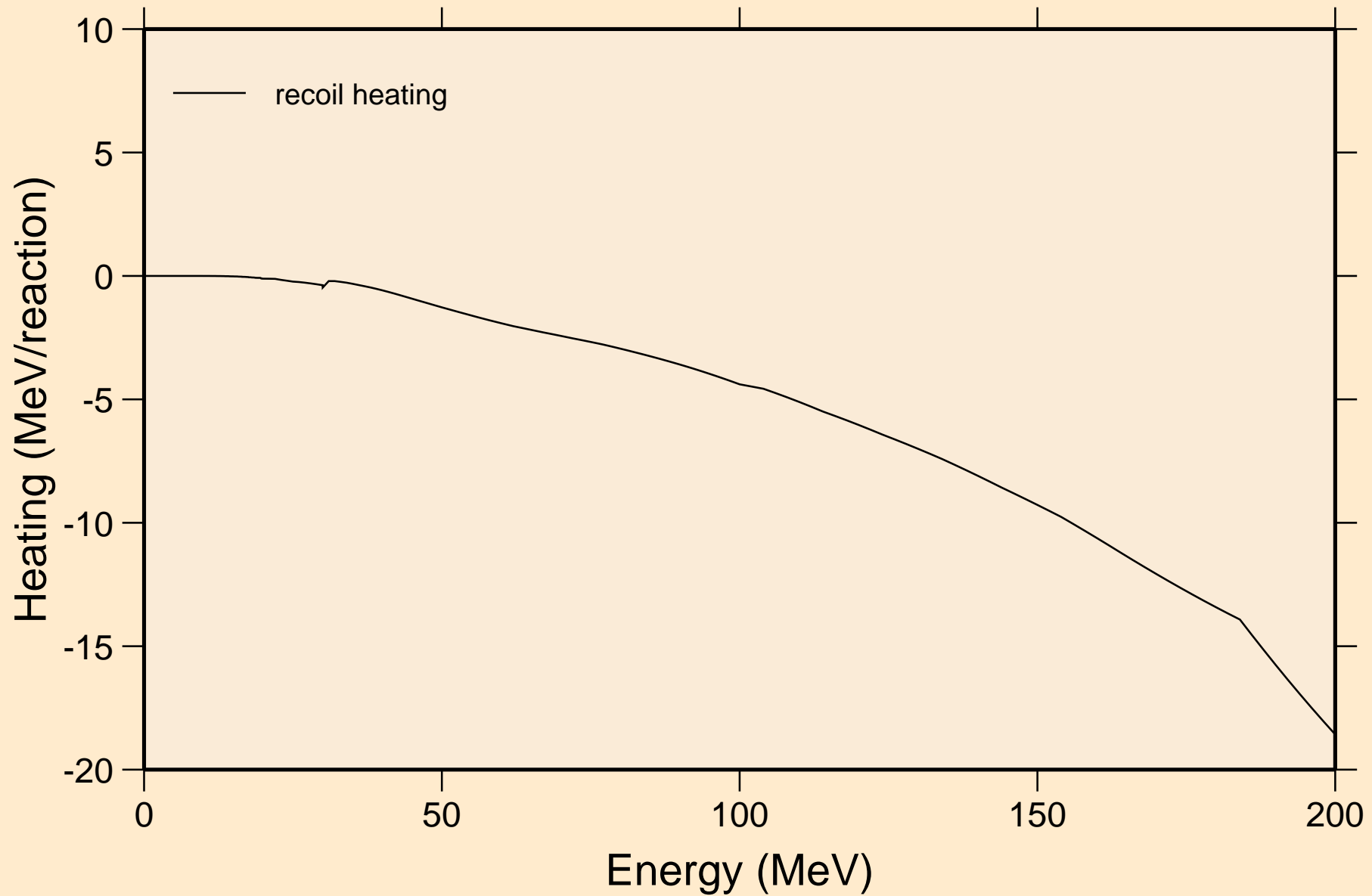
# N-U231 NRG TENDL-2017, AKONING

## Particle heating contributions



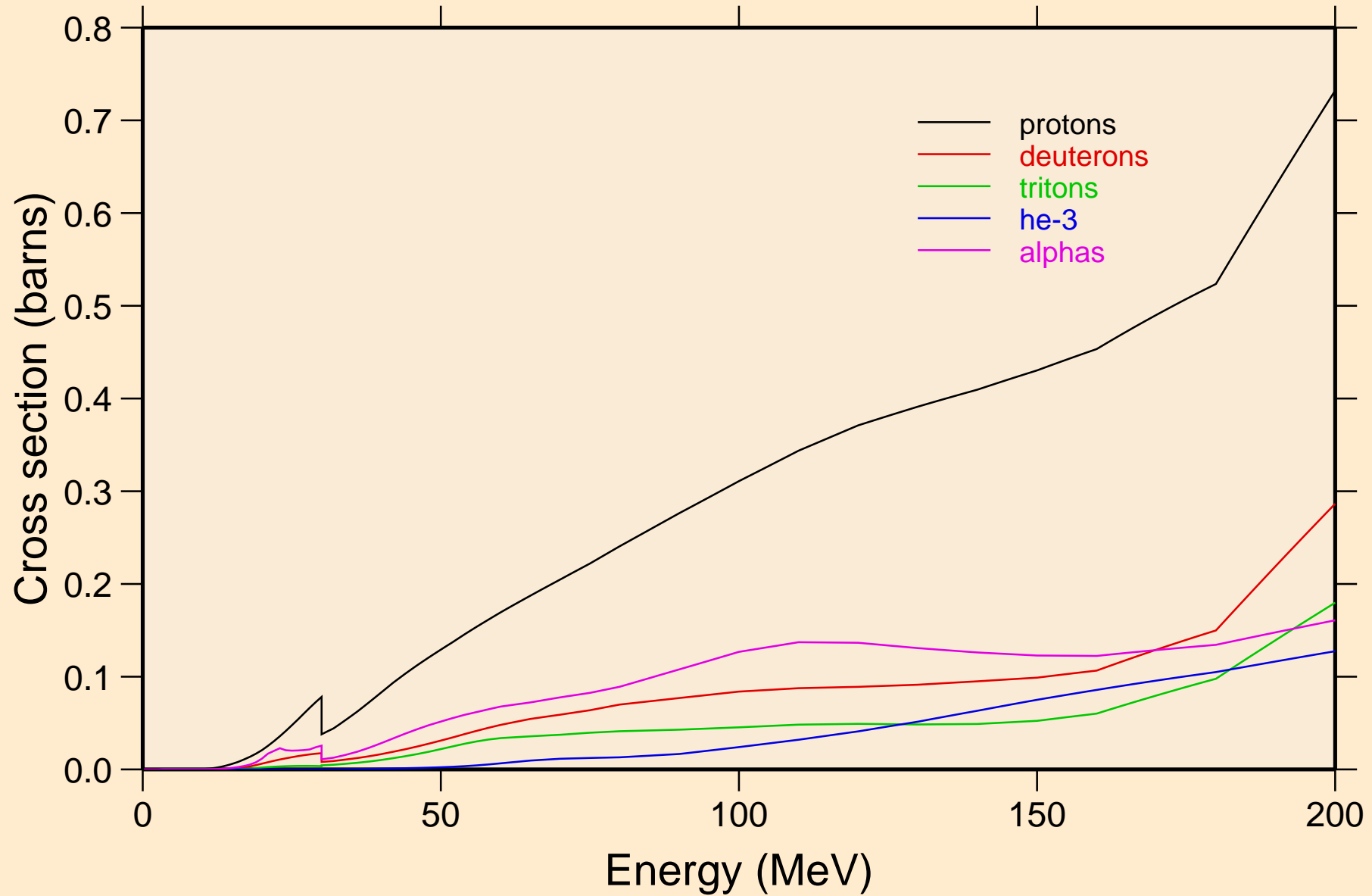
# N-U231 NRG TENDL-2017, AKONING

## Recoil Heating

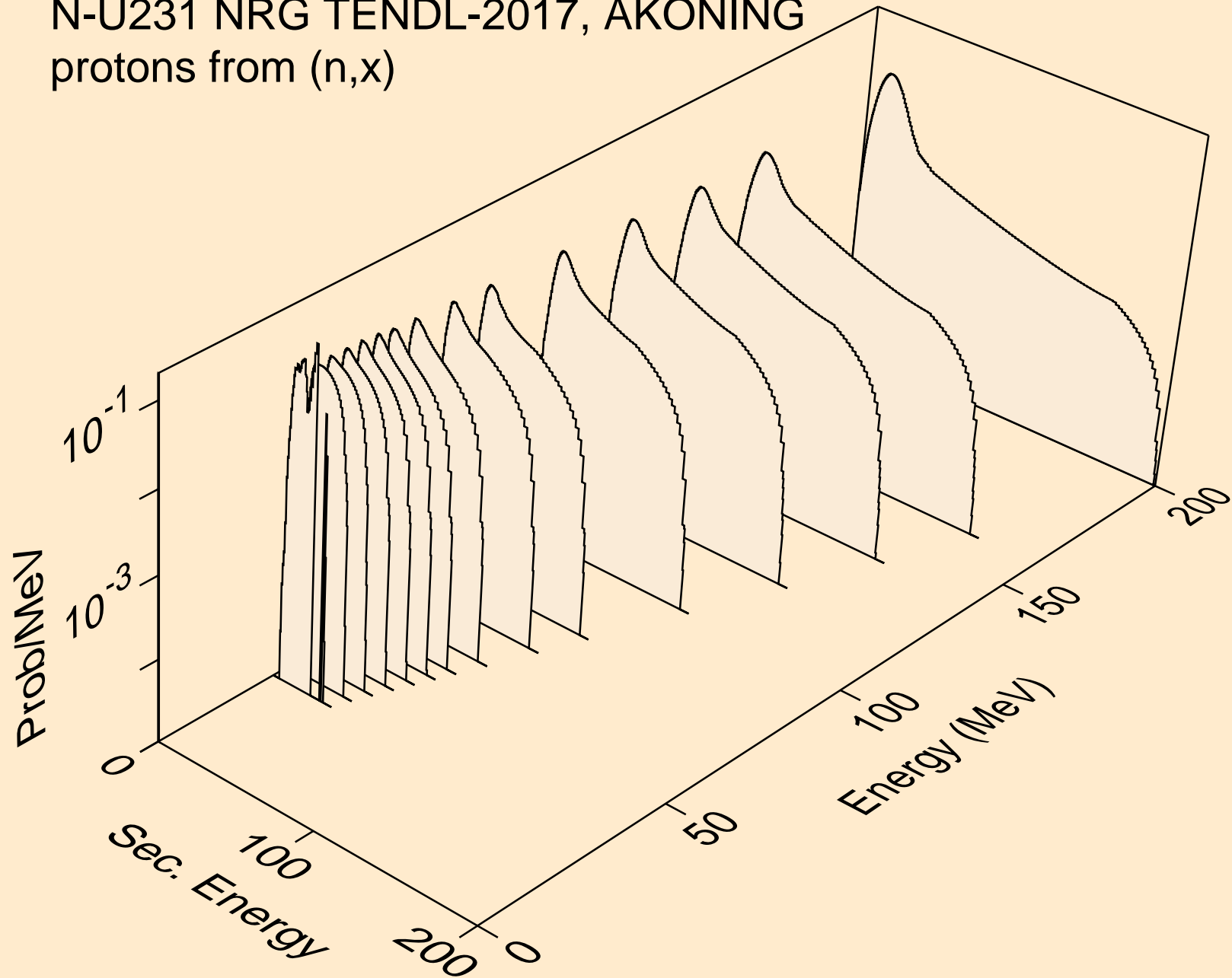


# N-U231 NRG TENDL-2017, AKONING

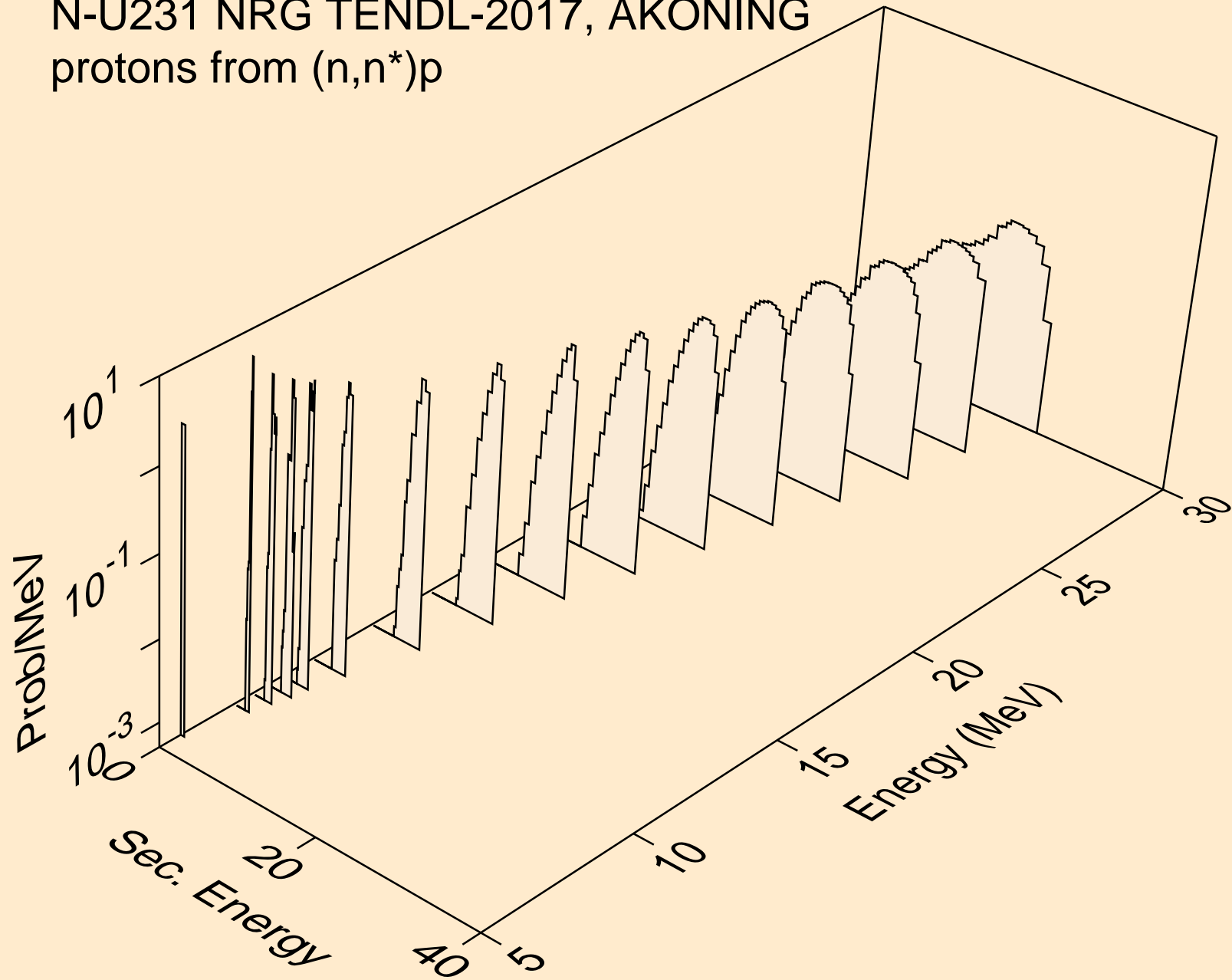
## Particle production cross sections



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protons from (n,x)

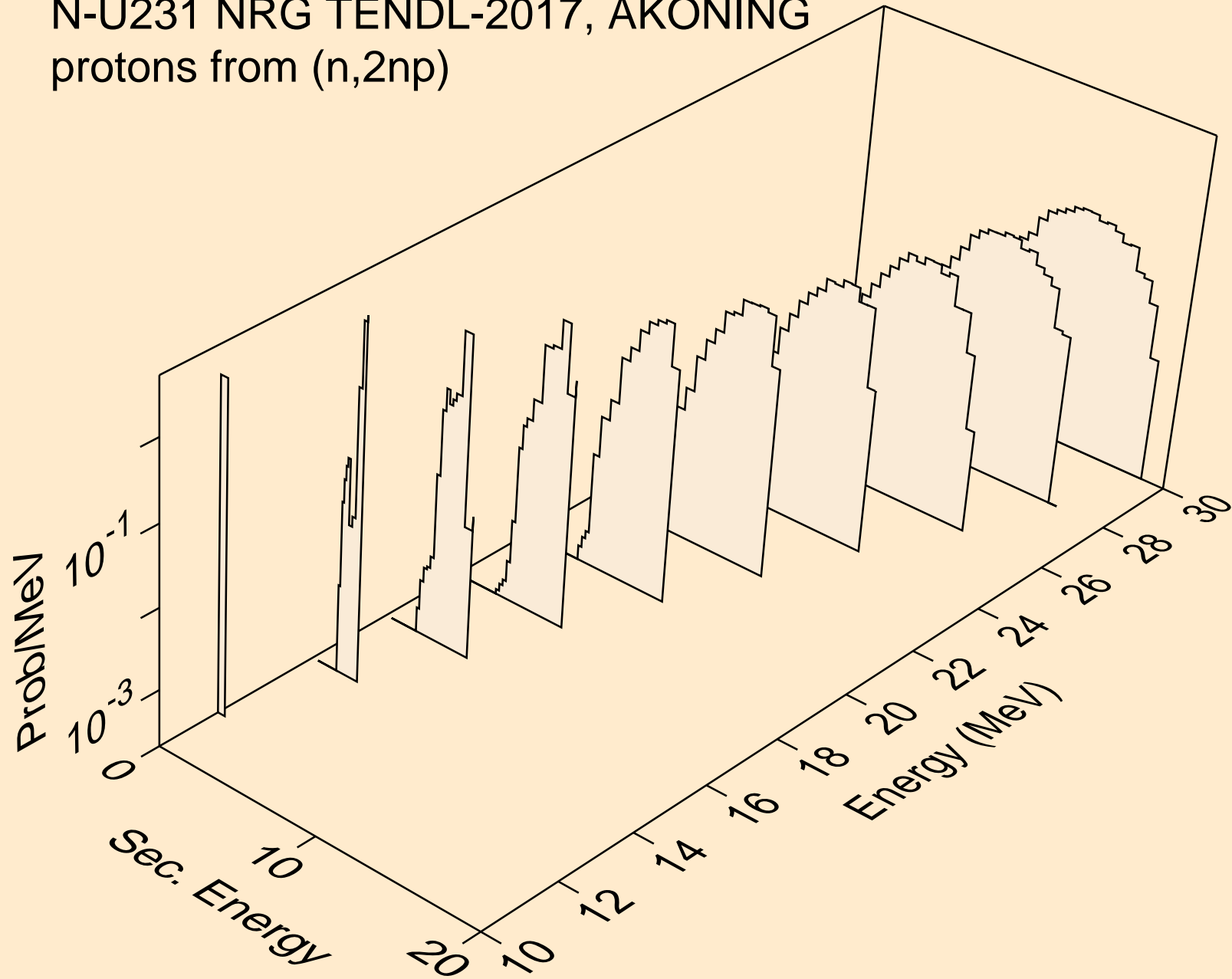


N-U231 NRG TENDL-2017, AKONING  
protons from (n,n\*)p

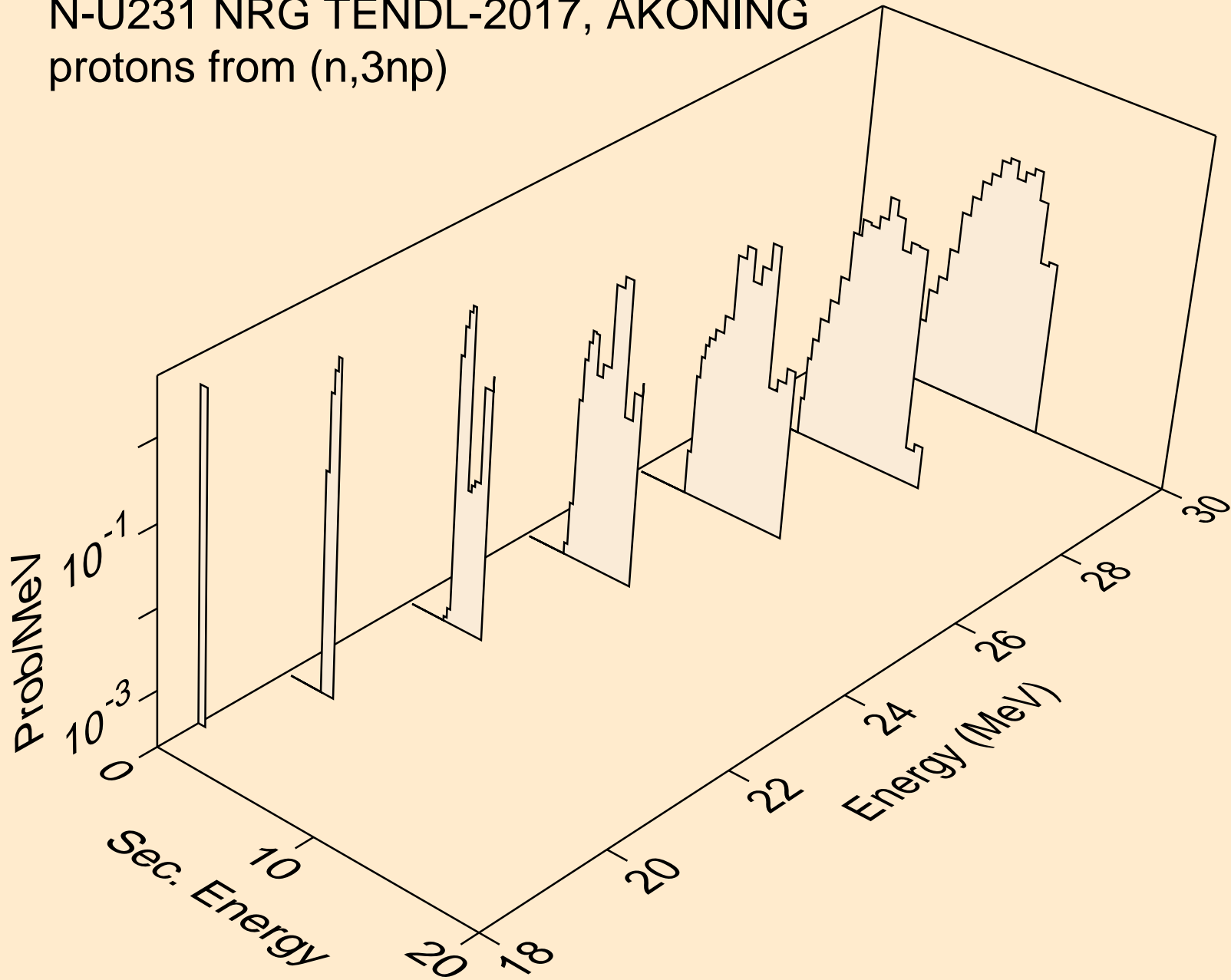




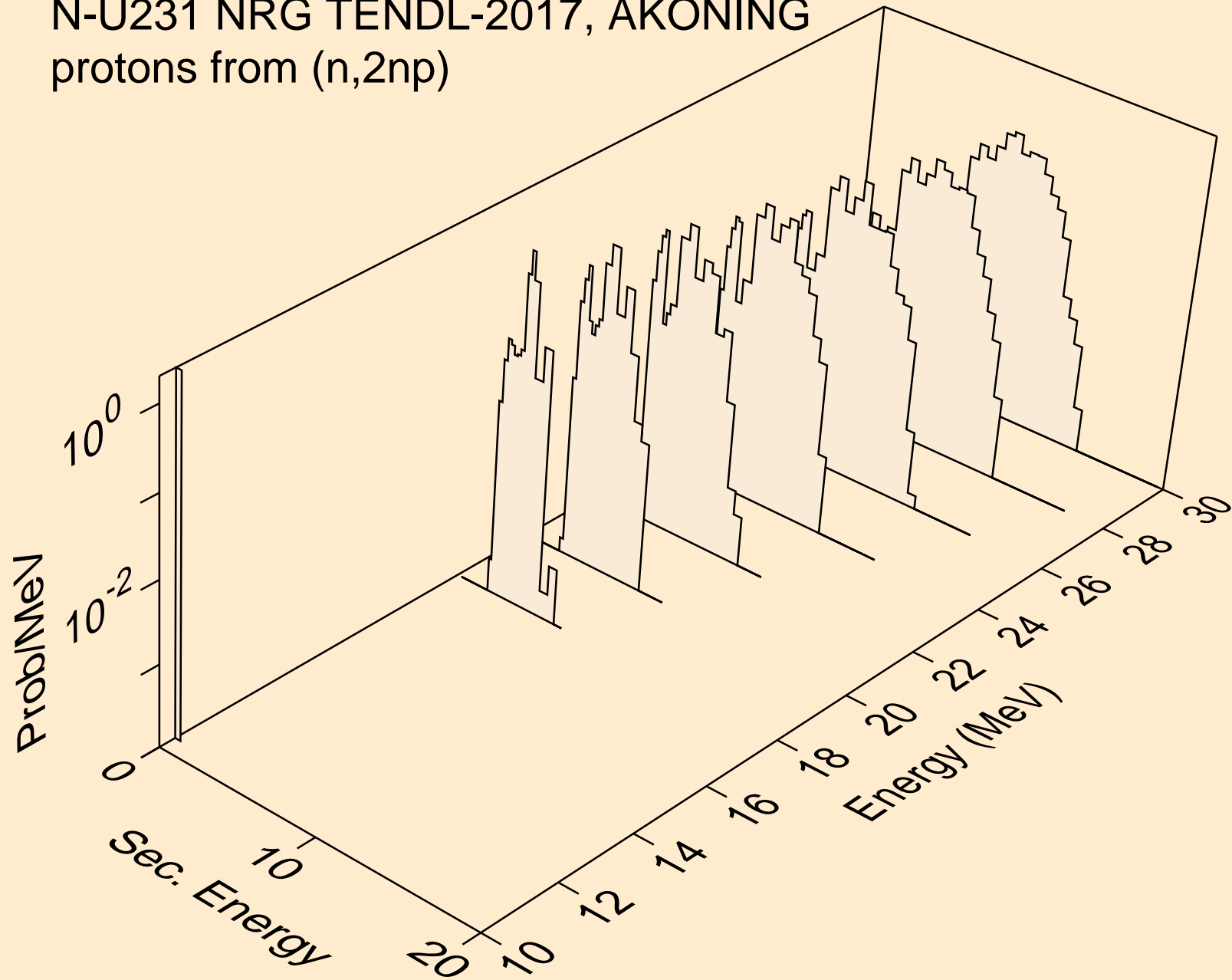
N-U231 NRG TENDL-2017, AKONING  
protons from (n,2np)



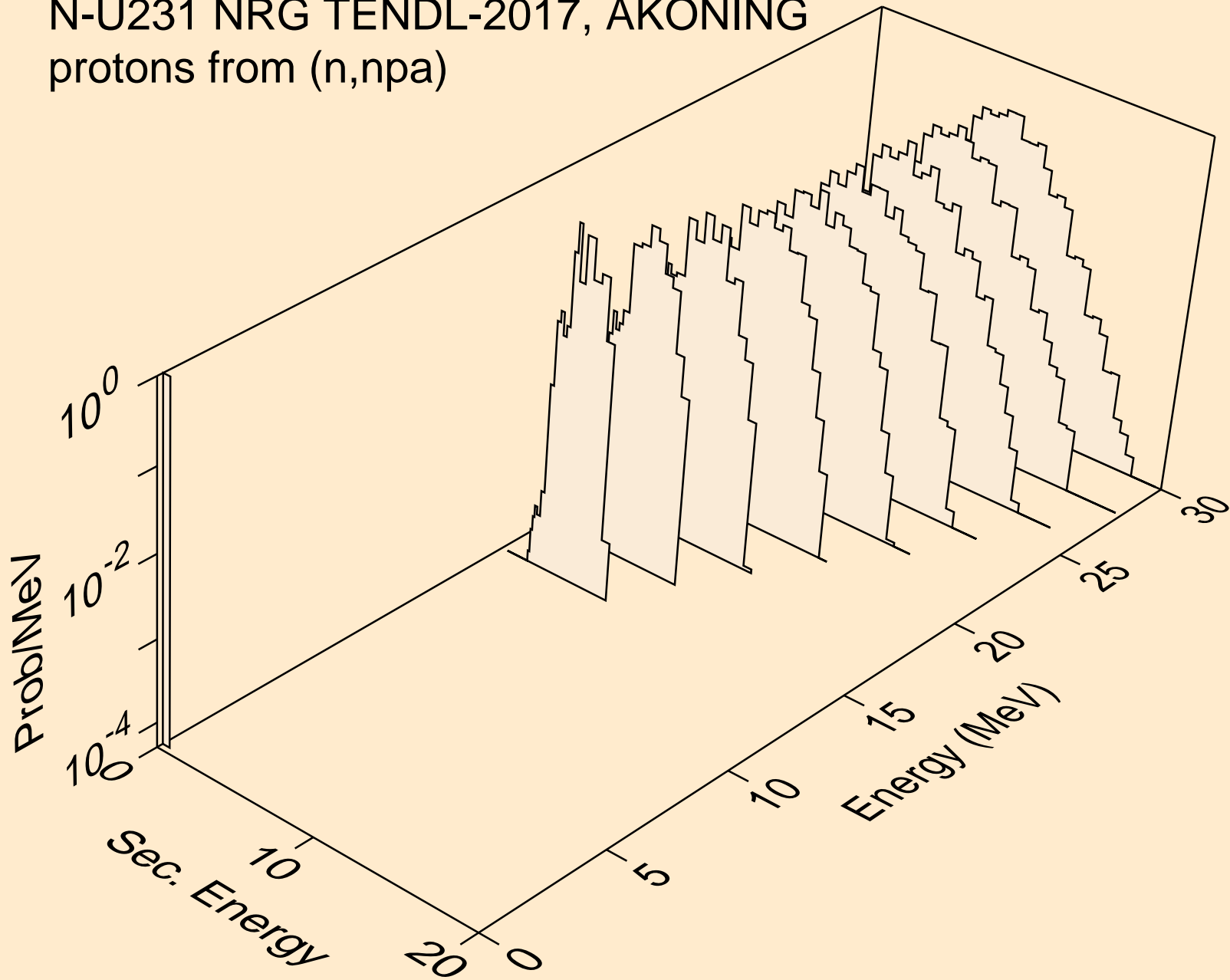
N-U231 NRG TENDL-2017, AKONING  
protons from (n,3np)



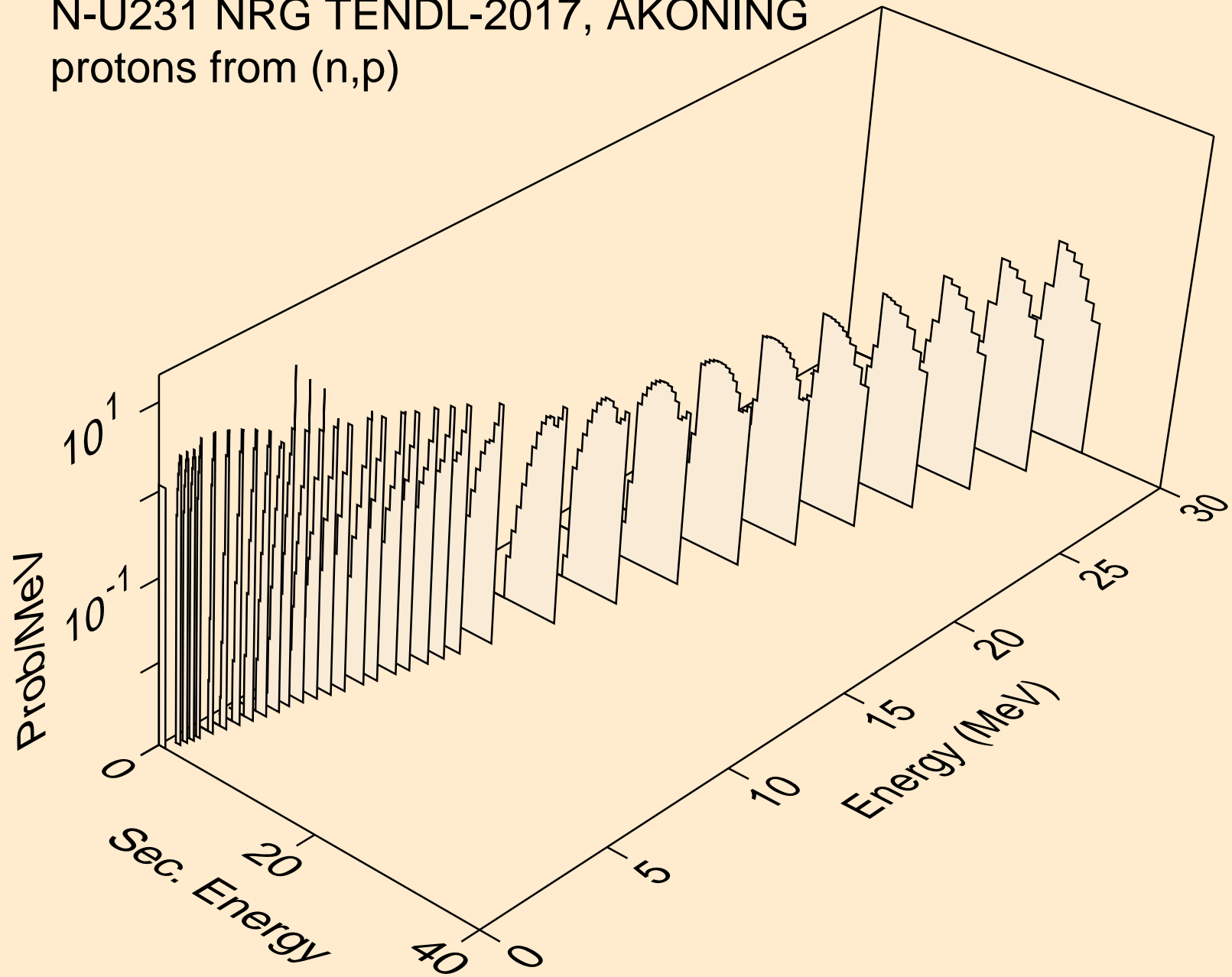
N-U231 NRG TENDL-2017, AKONING  
protons from (n,2np)



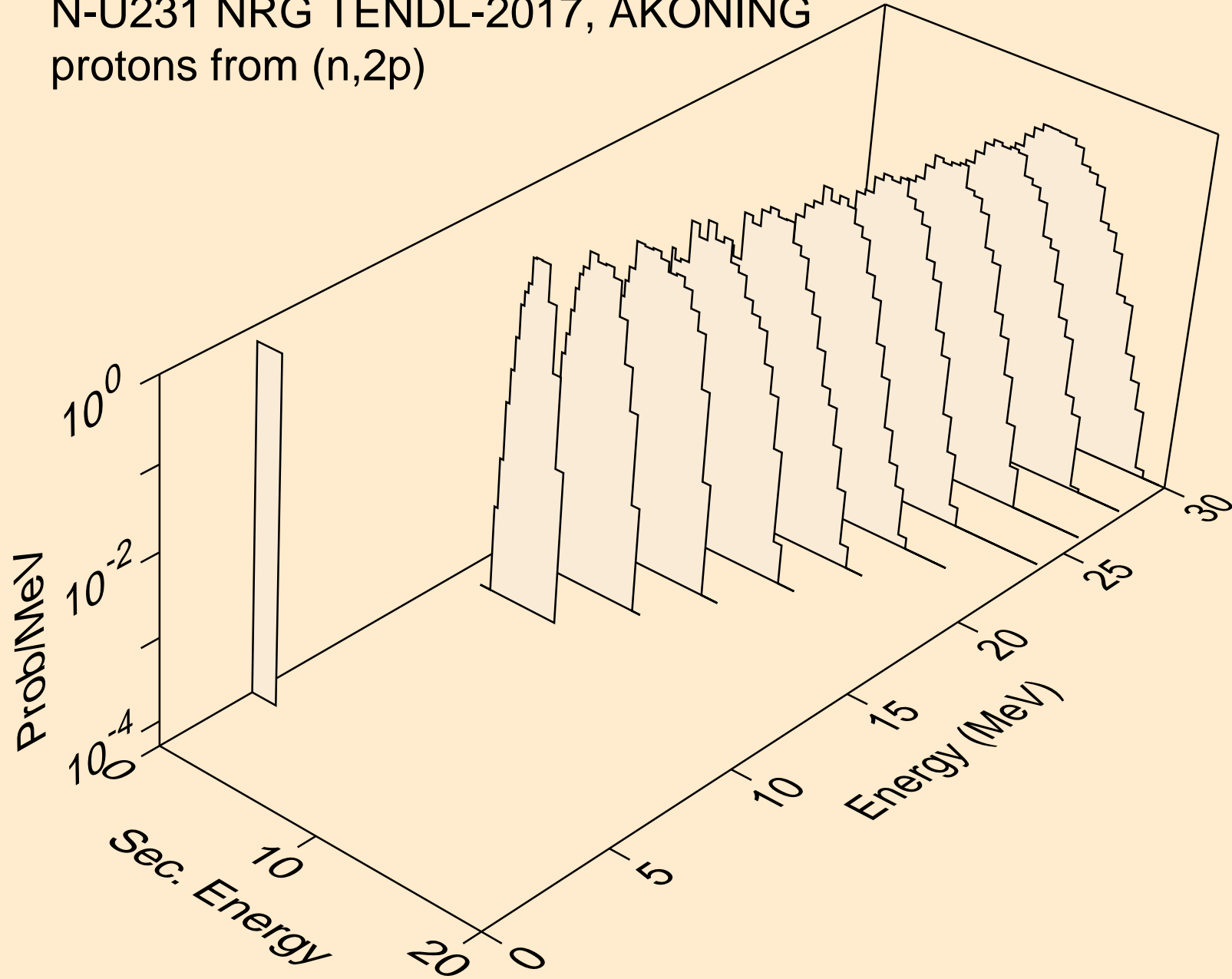
N-U231 NRG TENDL-2017, AKONING  
protons from (n,npa)



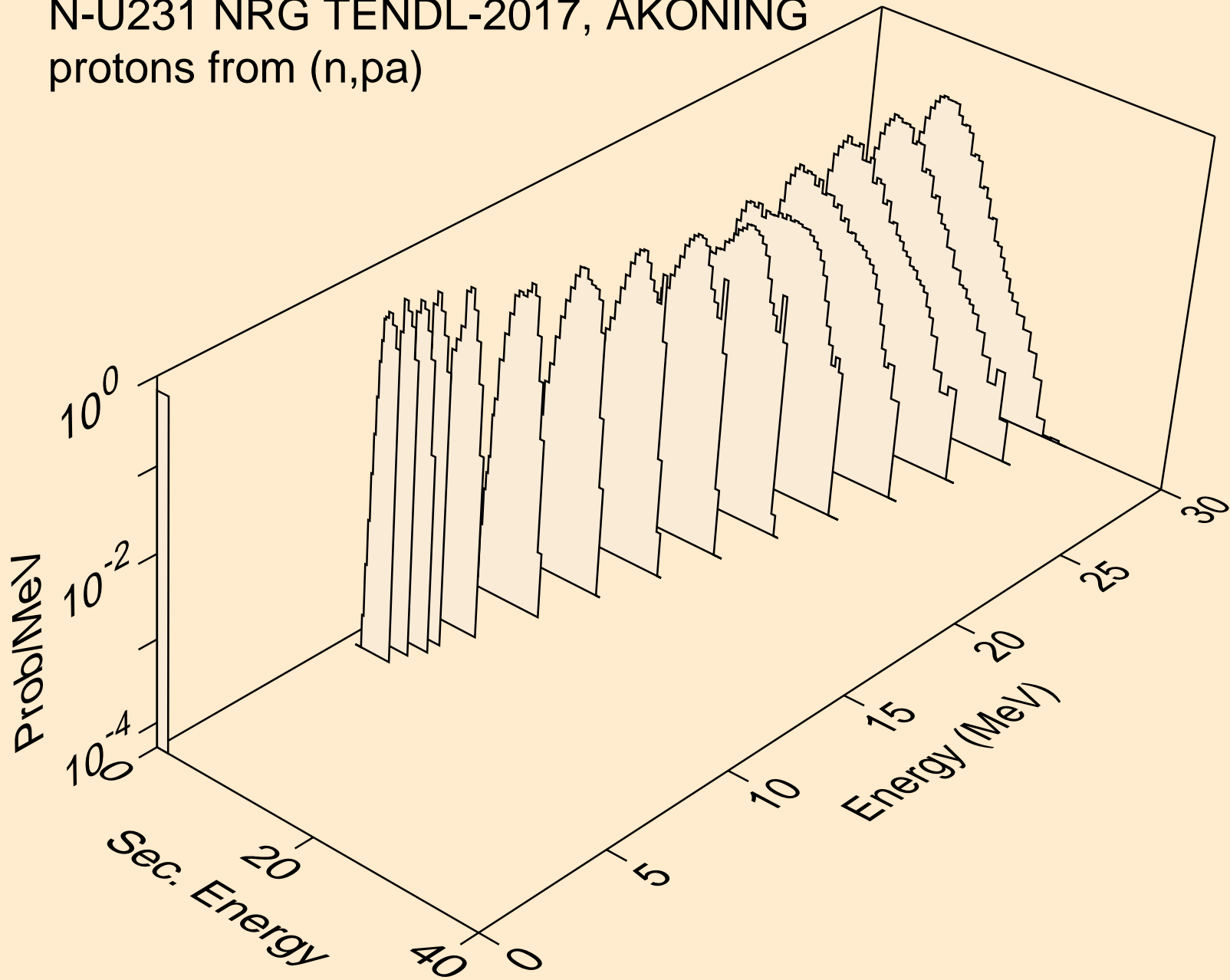
N-U231 NRG TENDL-2017, AKONING  
protons from (n,p)



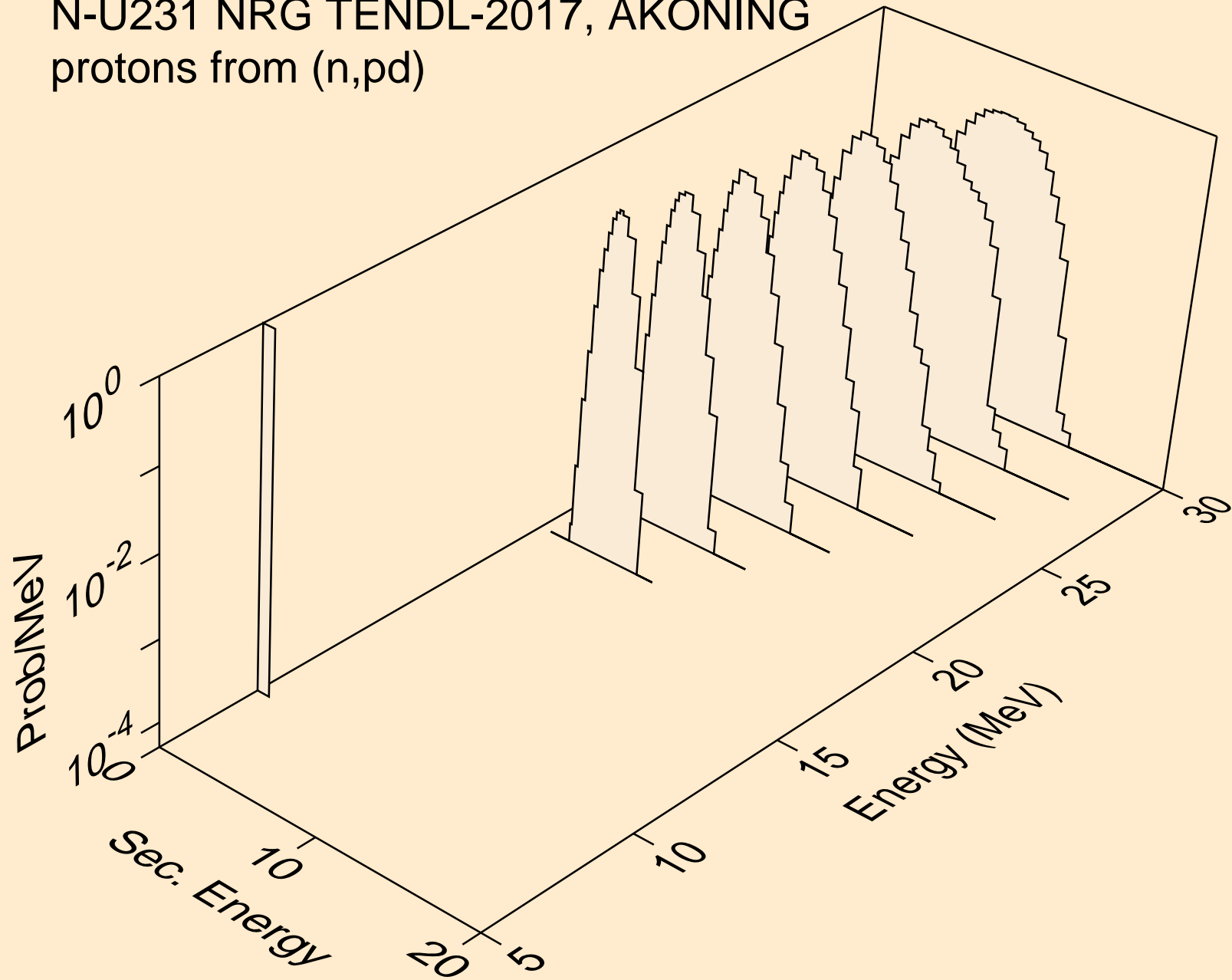
N-U231 NRG TENDL-2017, AKONING  
protons from (n,2p)



N-U231 NRG TENDL-2017, AKONING  
protons from (n,pa)

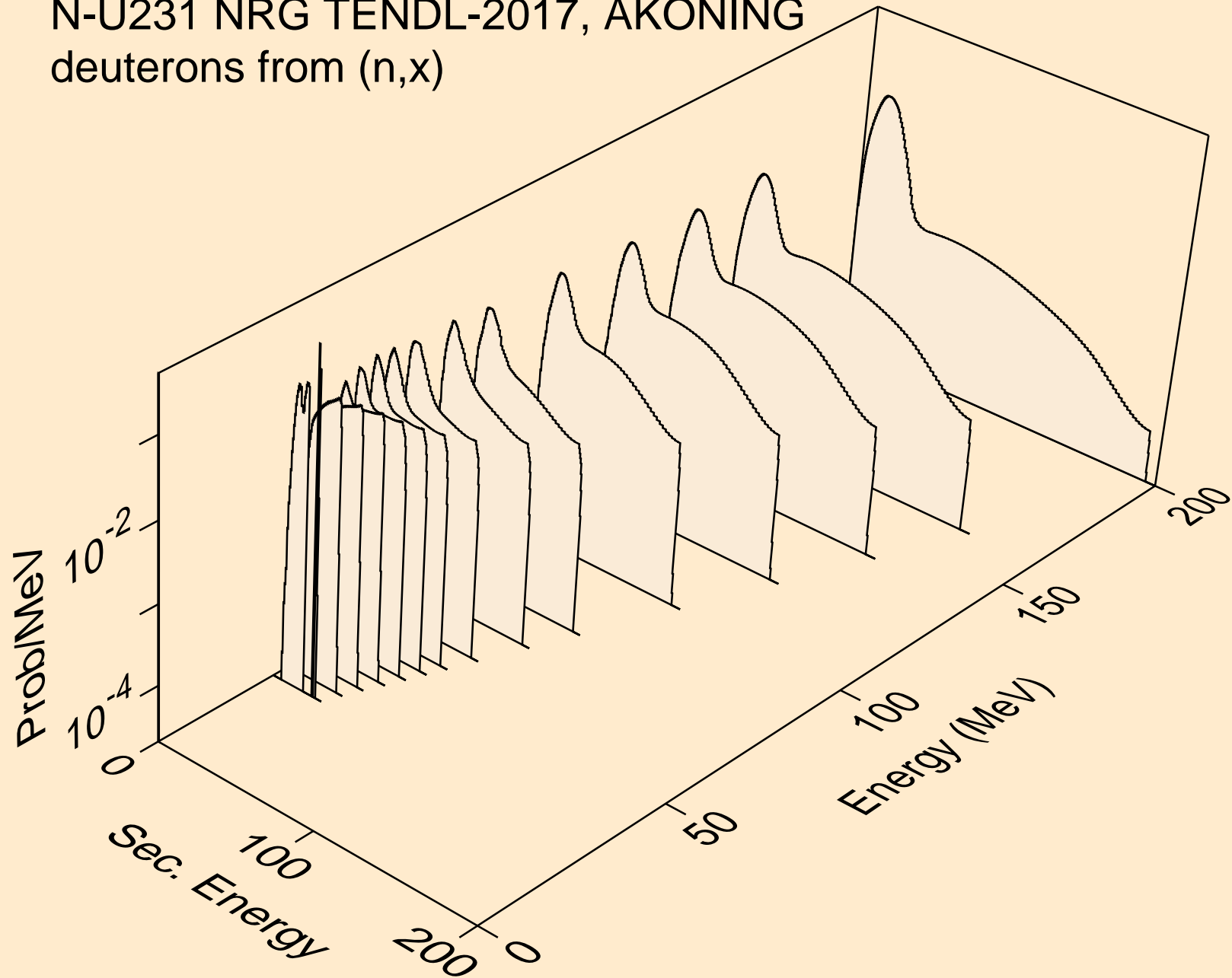


N-U231 NRG TENDL-2017, AKONING  
protons from (n,pd)

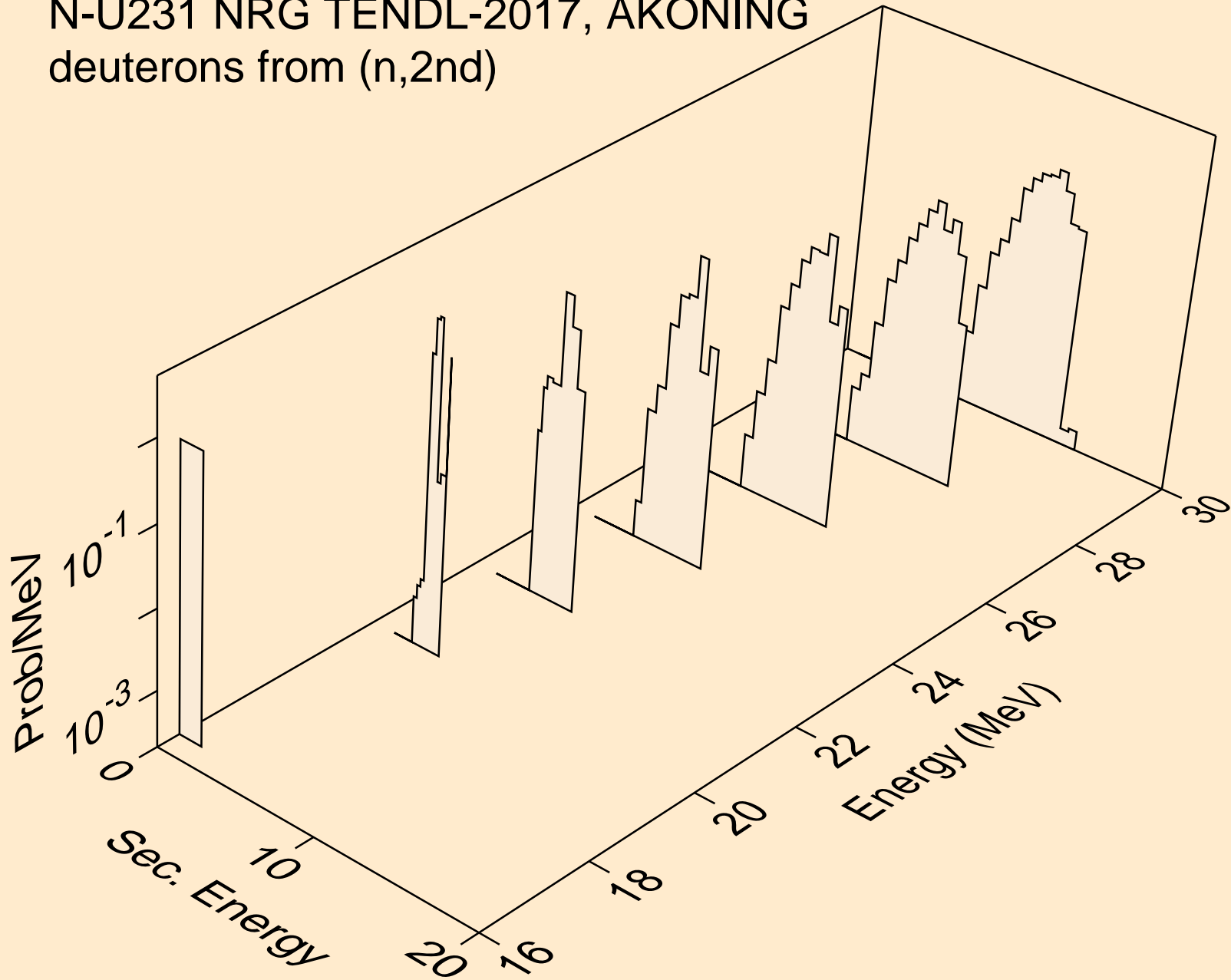




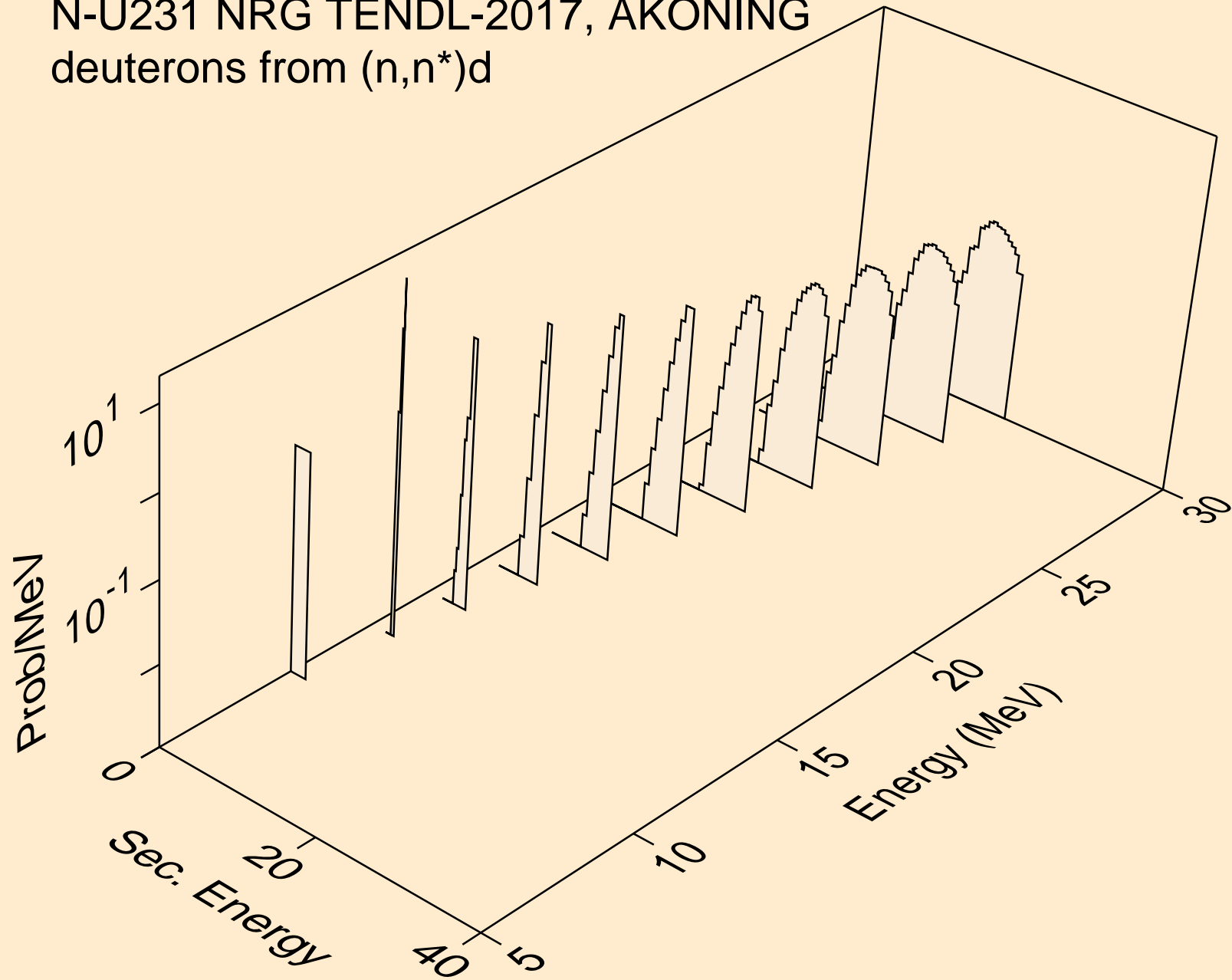
N-U231 NRG TENDL-2017, AKONING  
deuterons from (n,x)



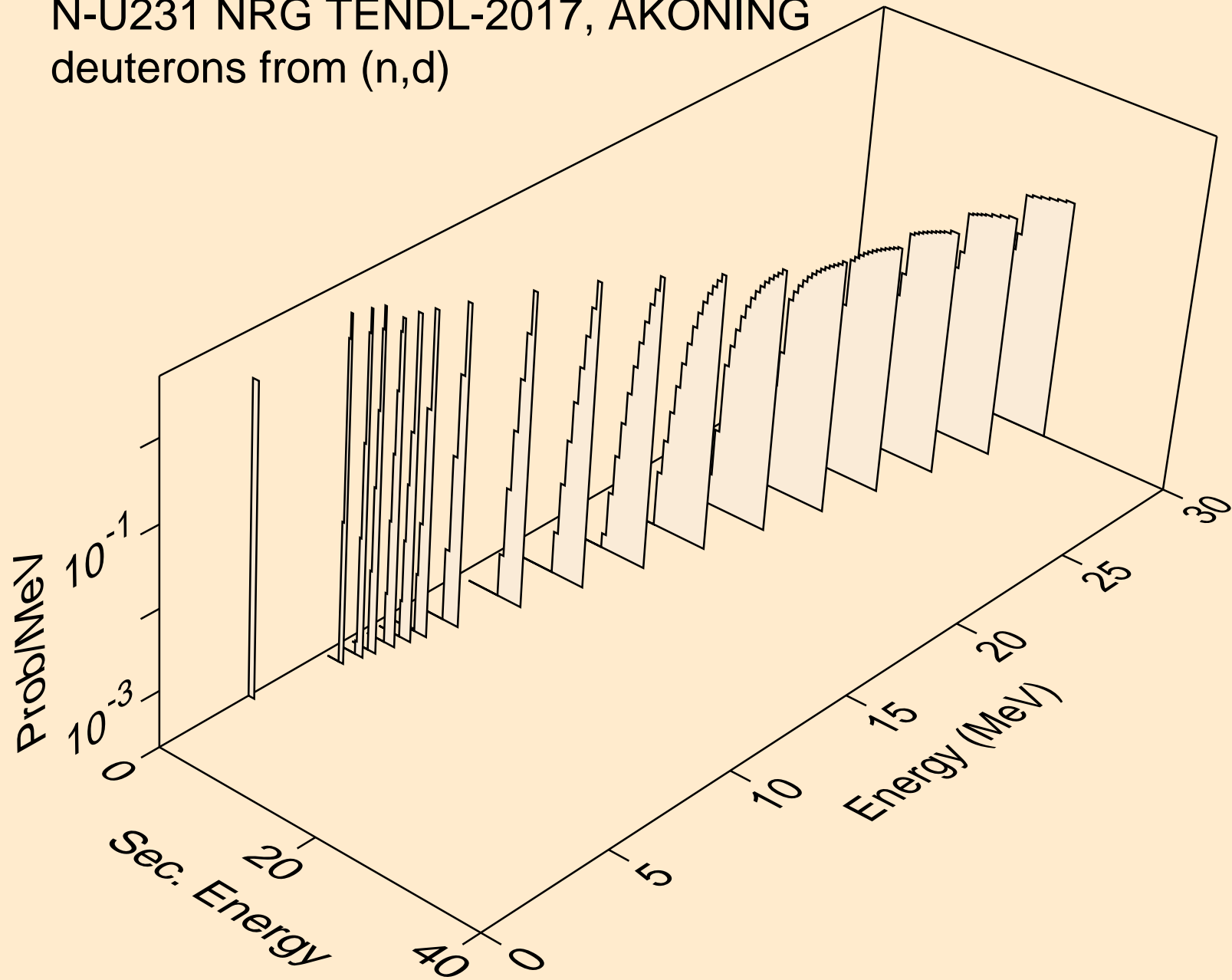
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deuterons from (n,2nd)



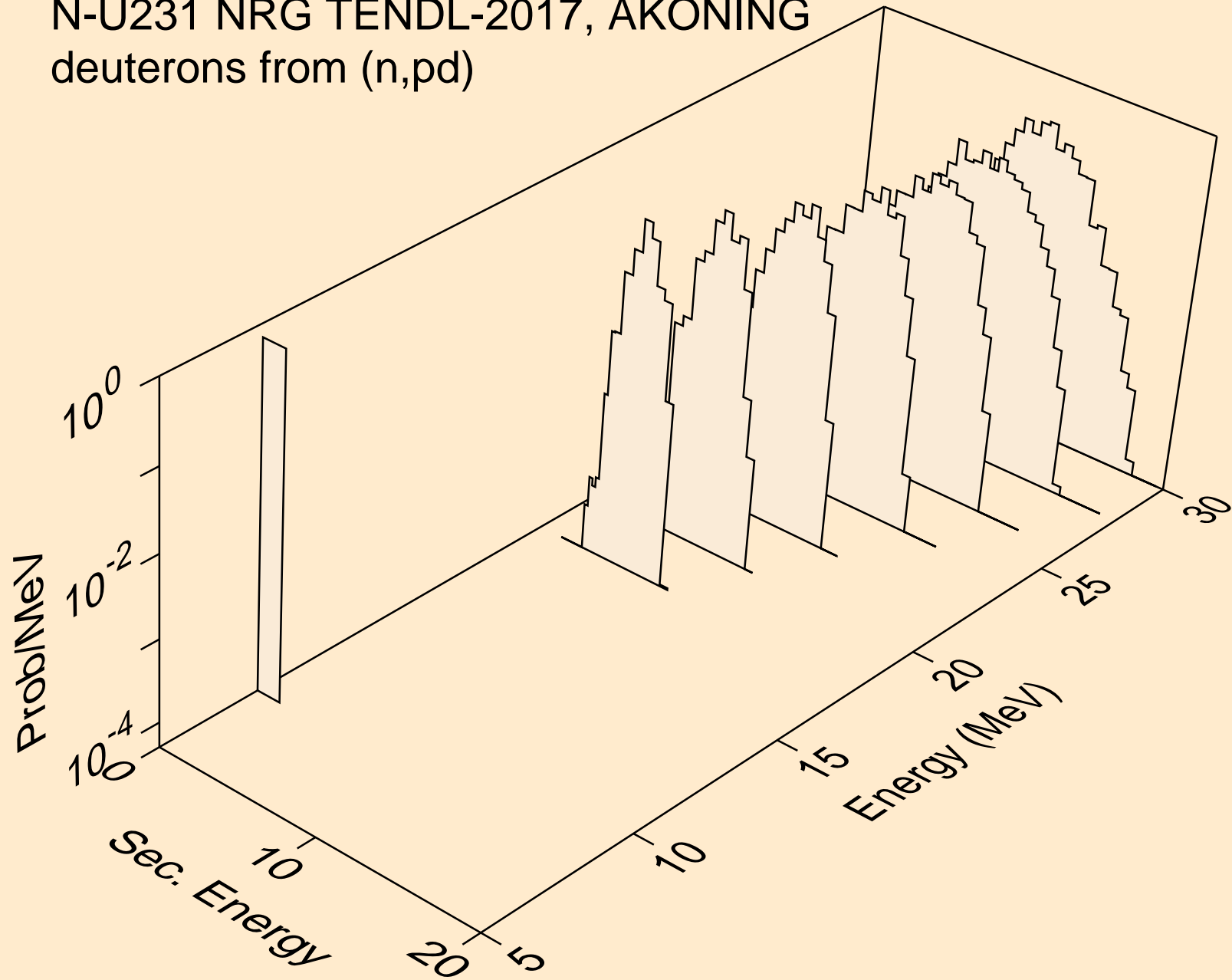
N-U231 NRG TENDL-2017, AKONING  
deuterons from (n,n\*)d



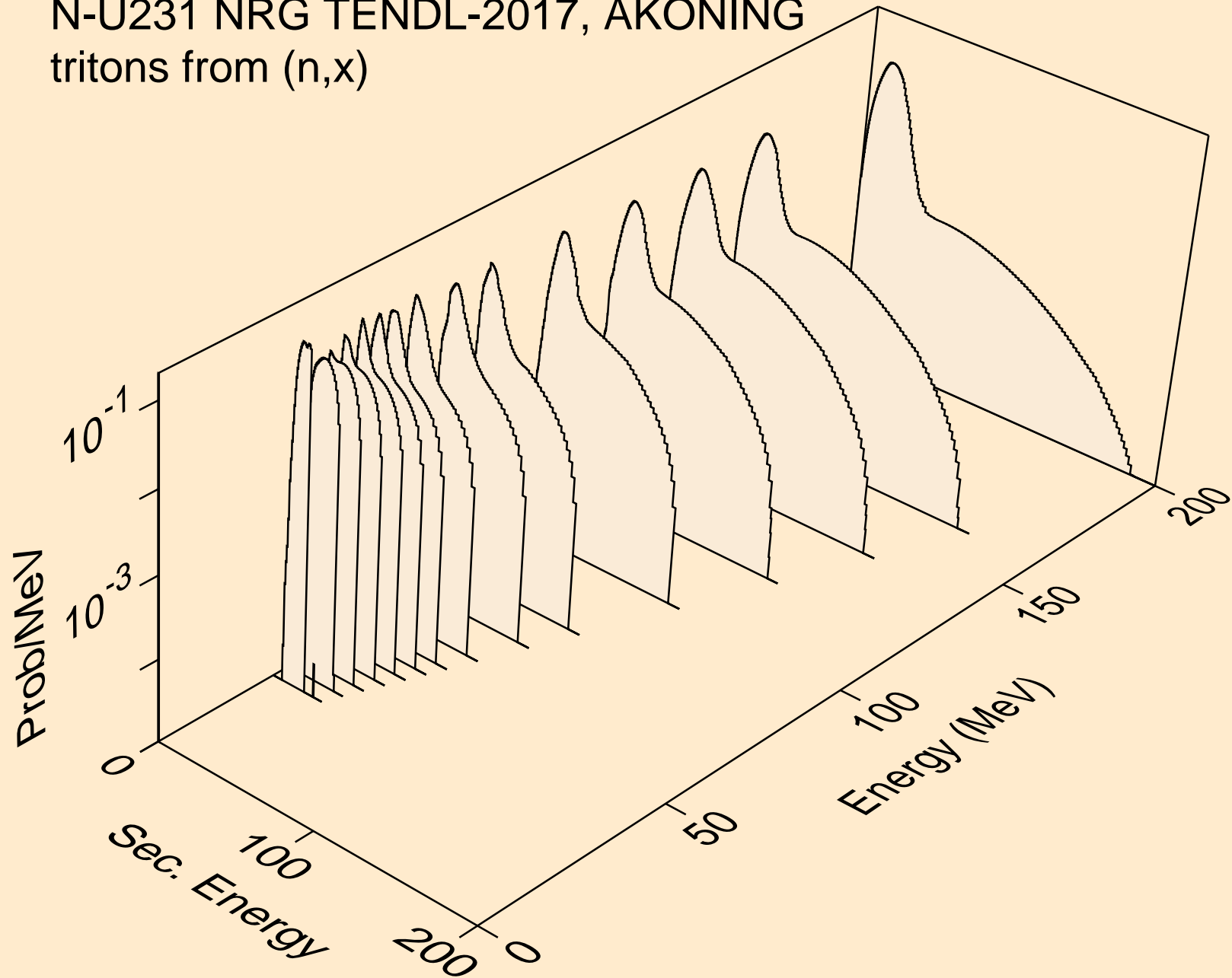
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deuterons from (n,d)



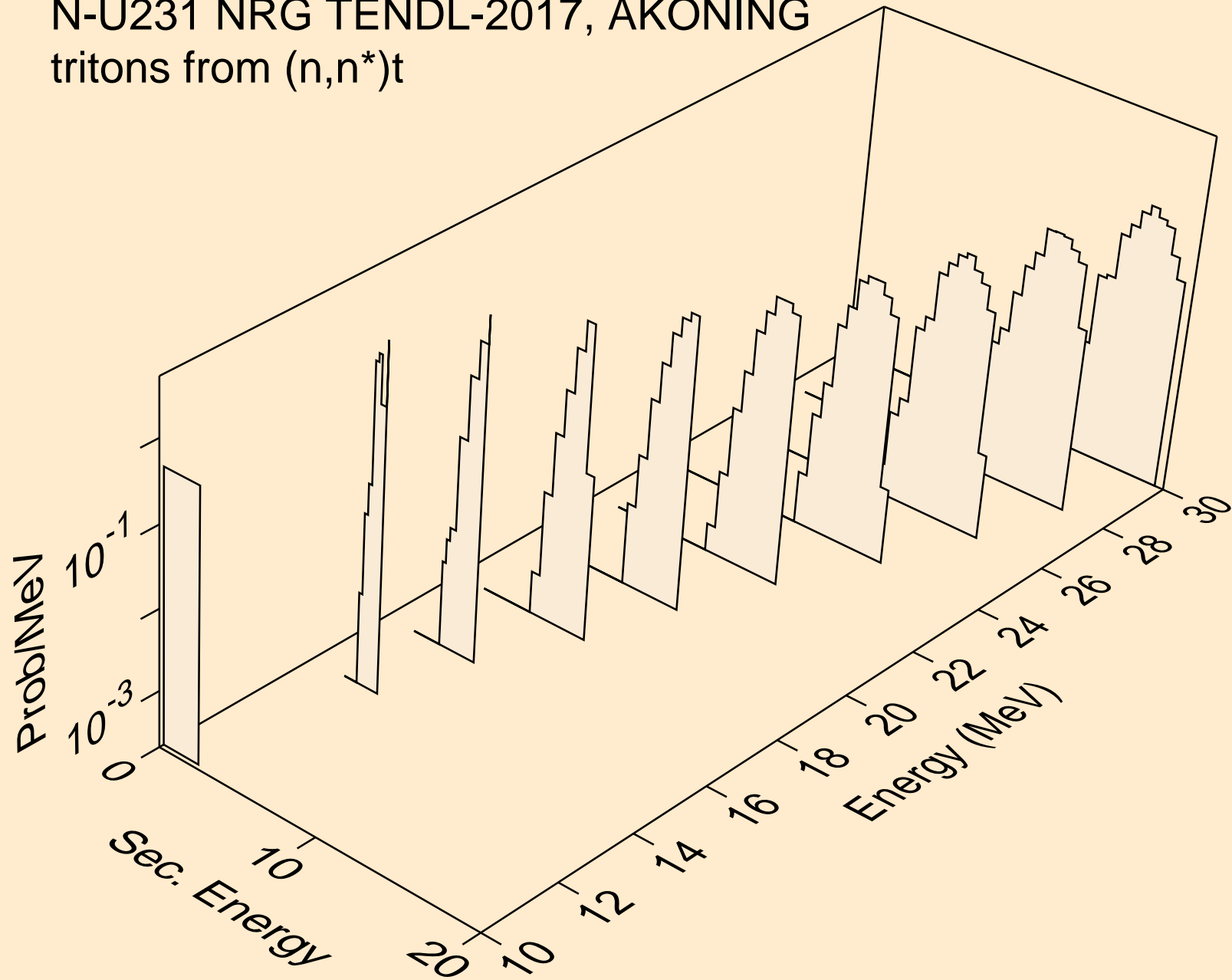
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deuterons from (n,pd)



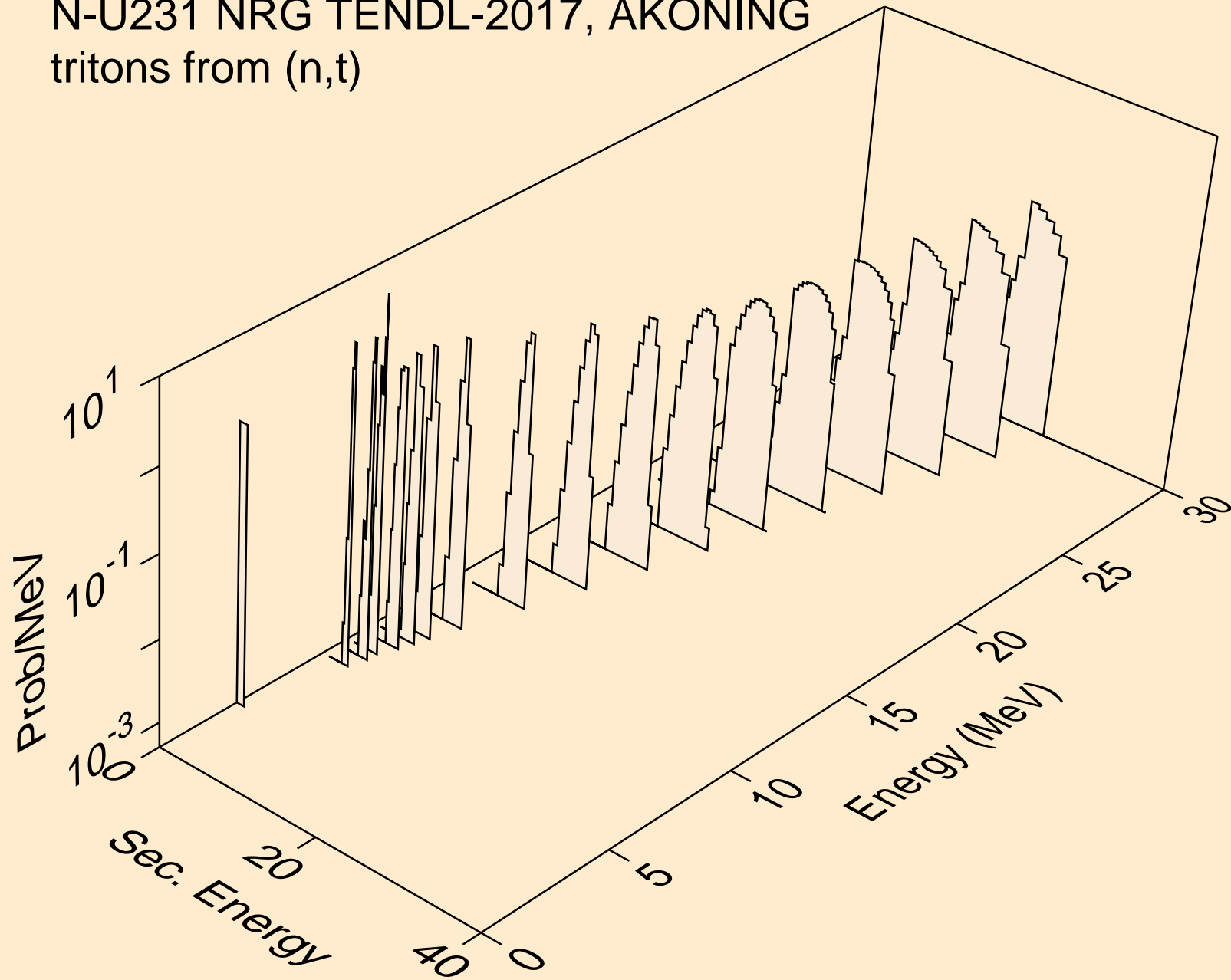
N-U231 NRG TENDL-2017, AKONING  
tritons from (n,x)



N-U231 NRG TENDL-2017, AKONING  
tritons from (n,n\*)t

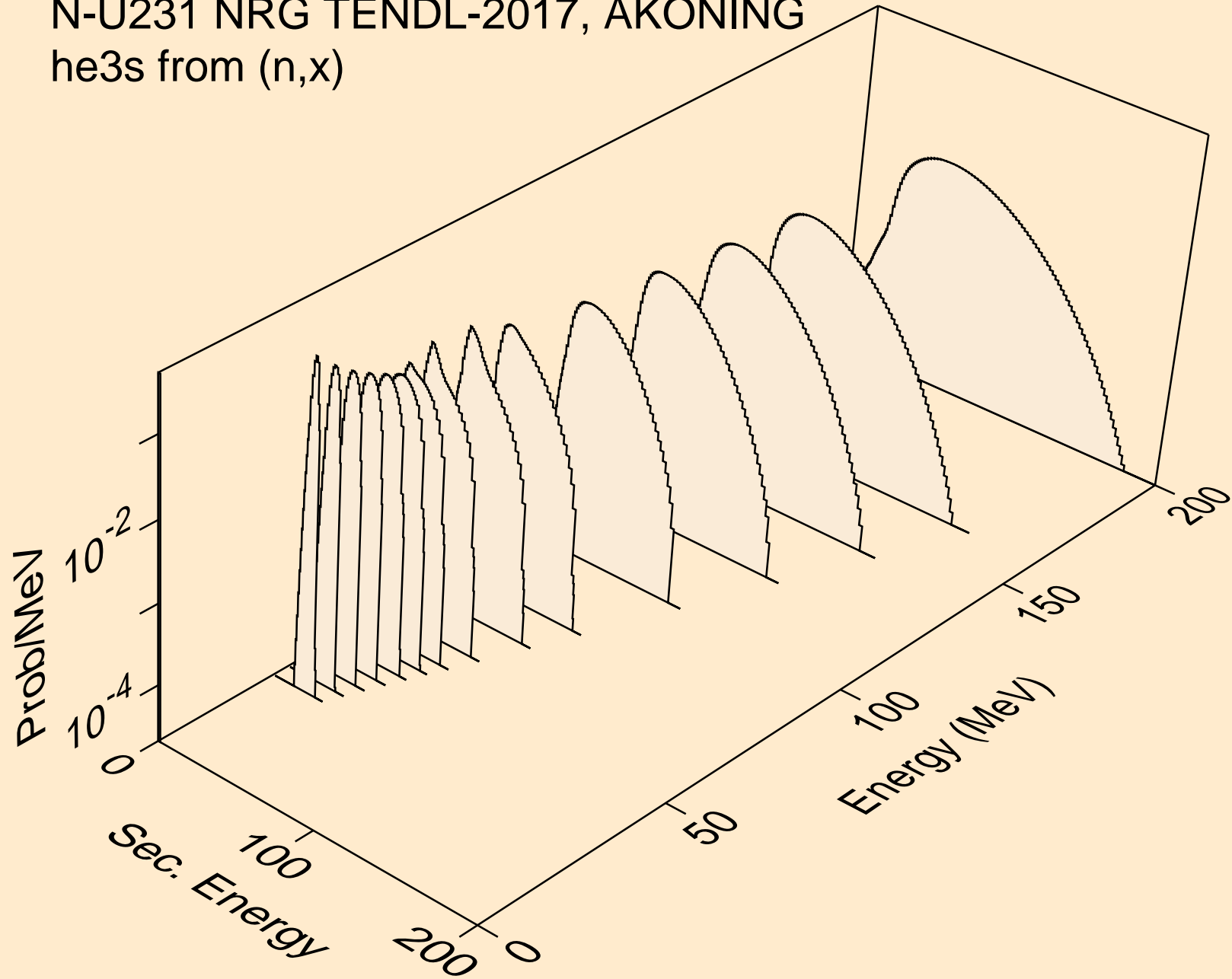


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tritons from (n,t)

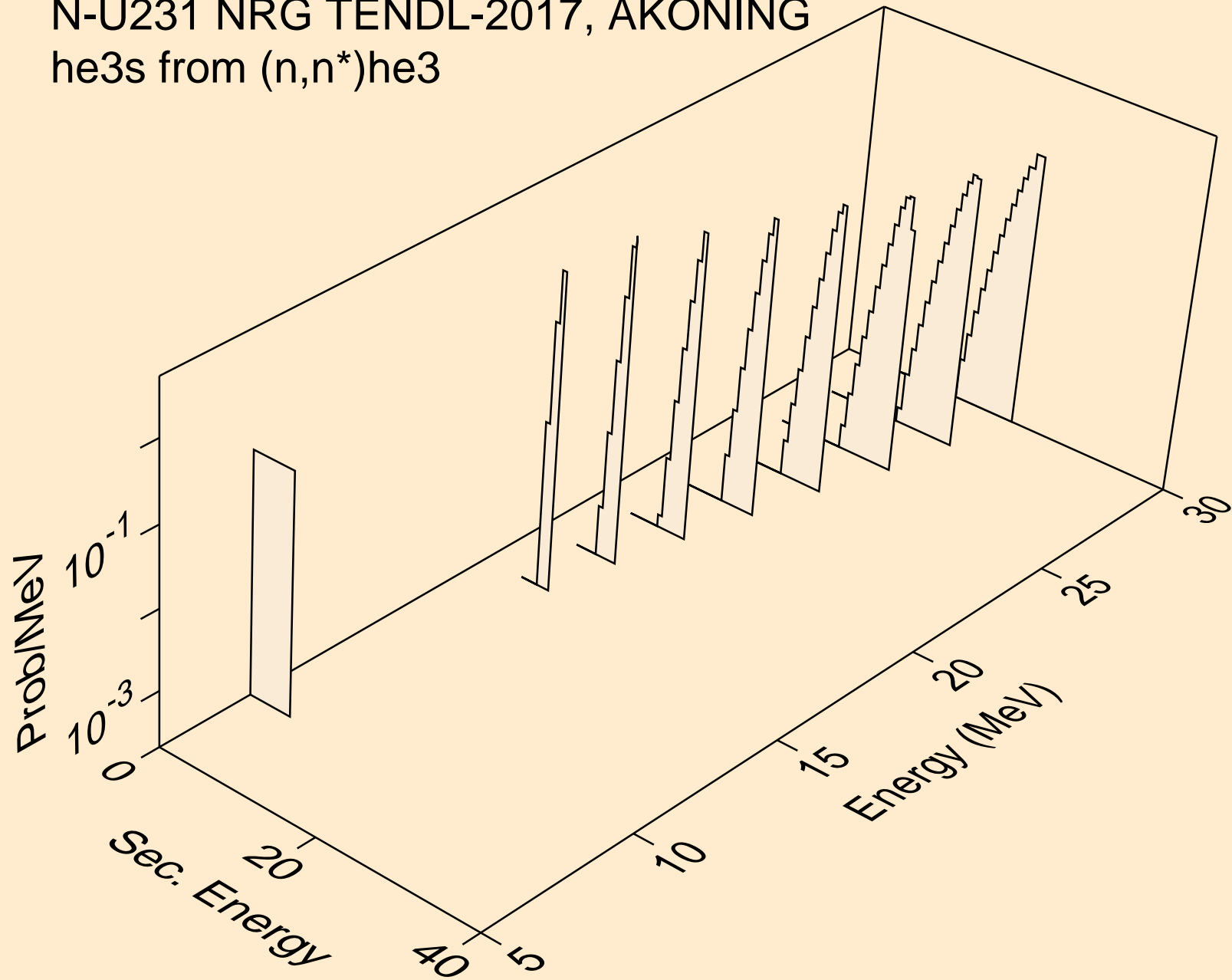




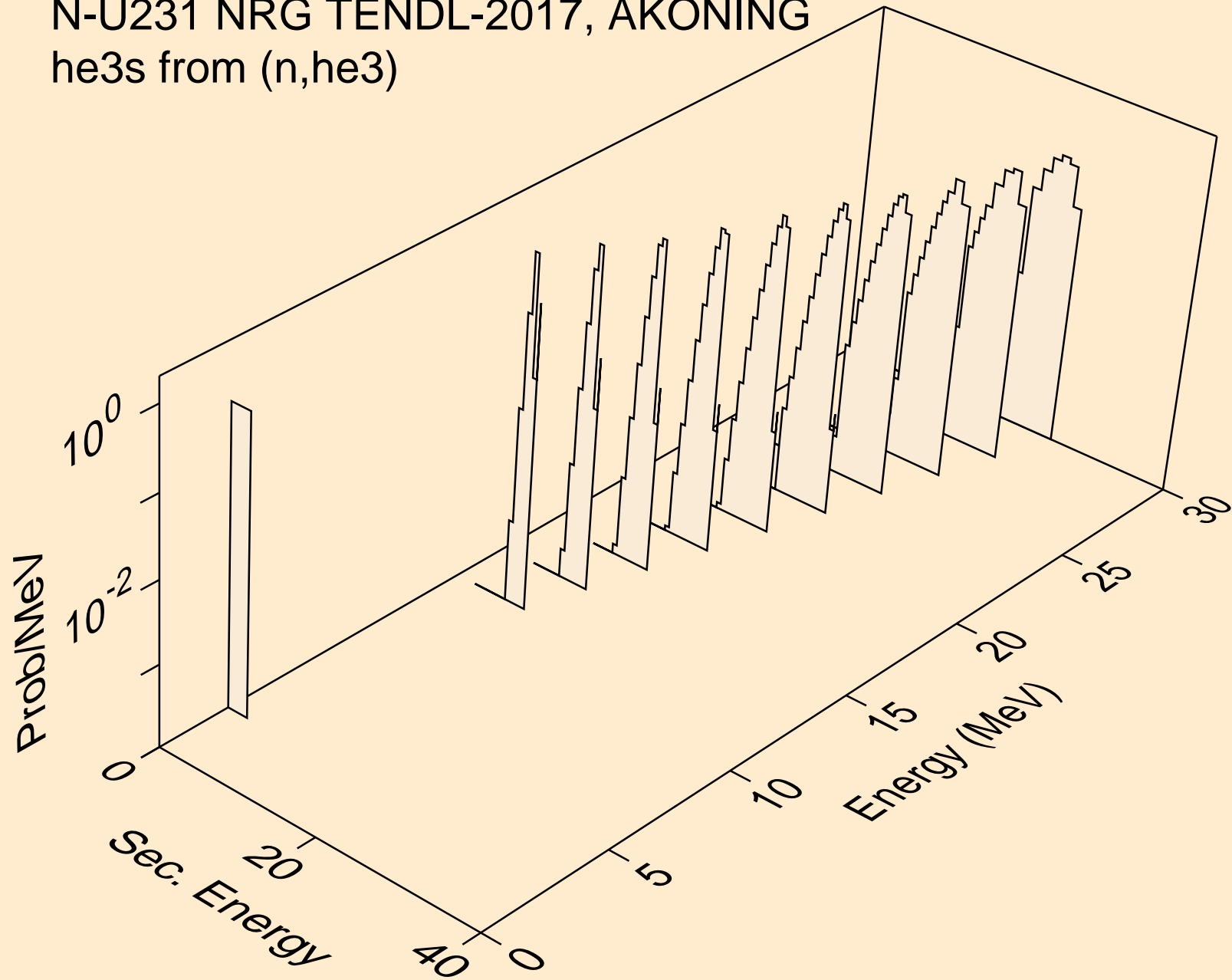
N-U231 NRG TENDL-2017, AKONING  
he3s from (n,x)



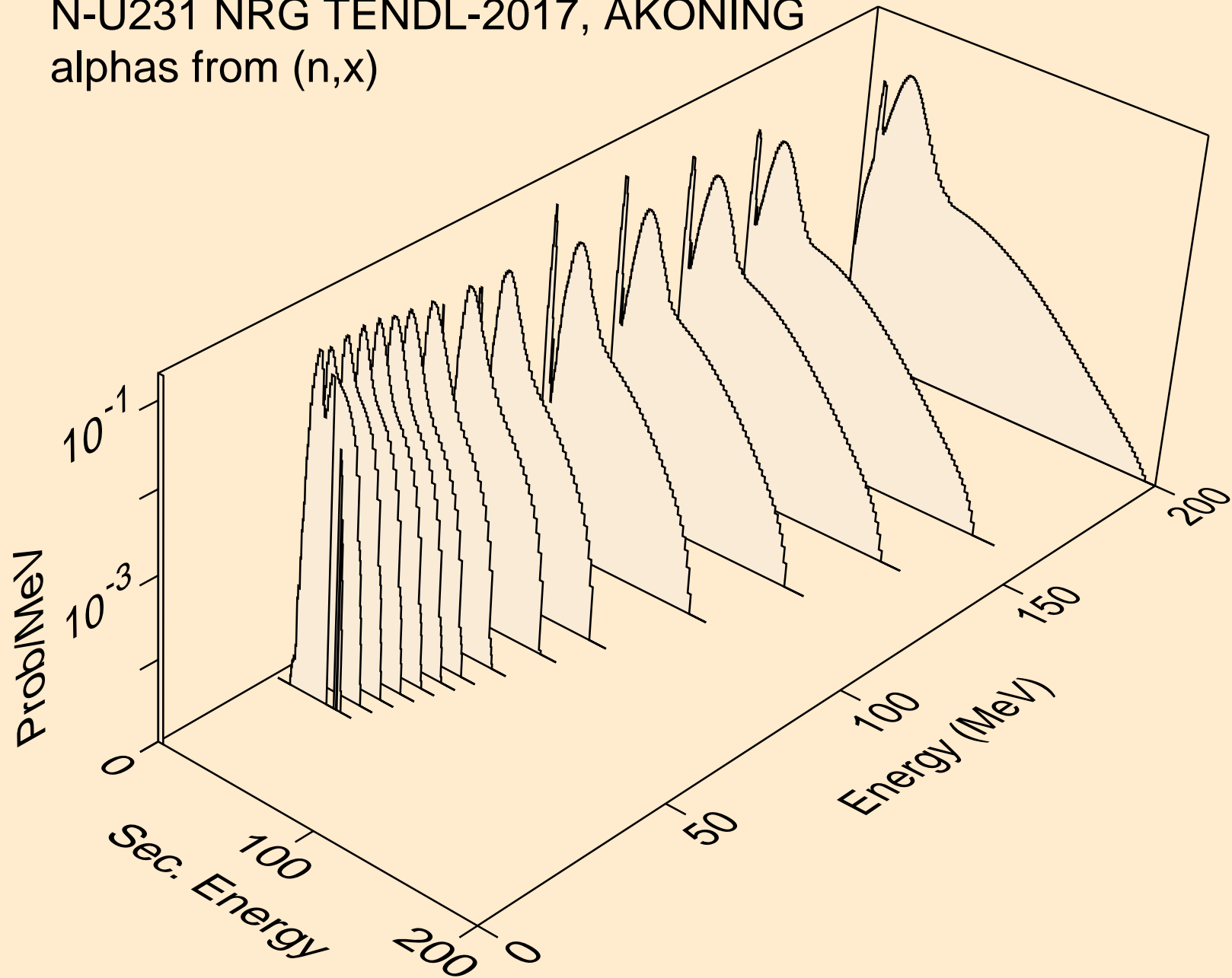
N-U231 NRG TENDL-2017, AKONING  
he3s from (n,n\*)he3



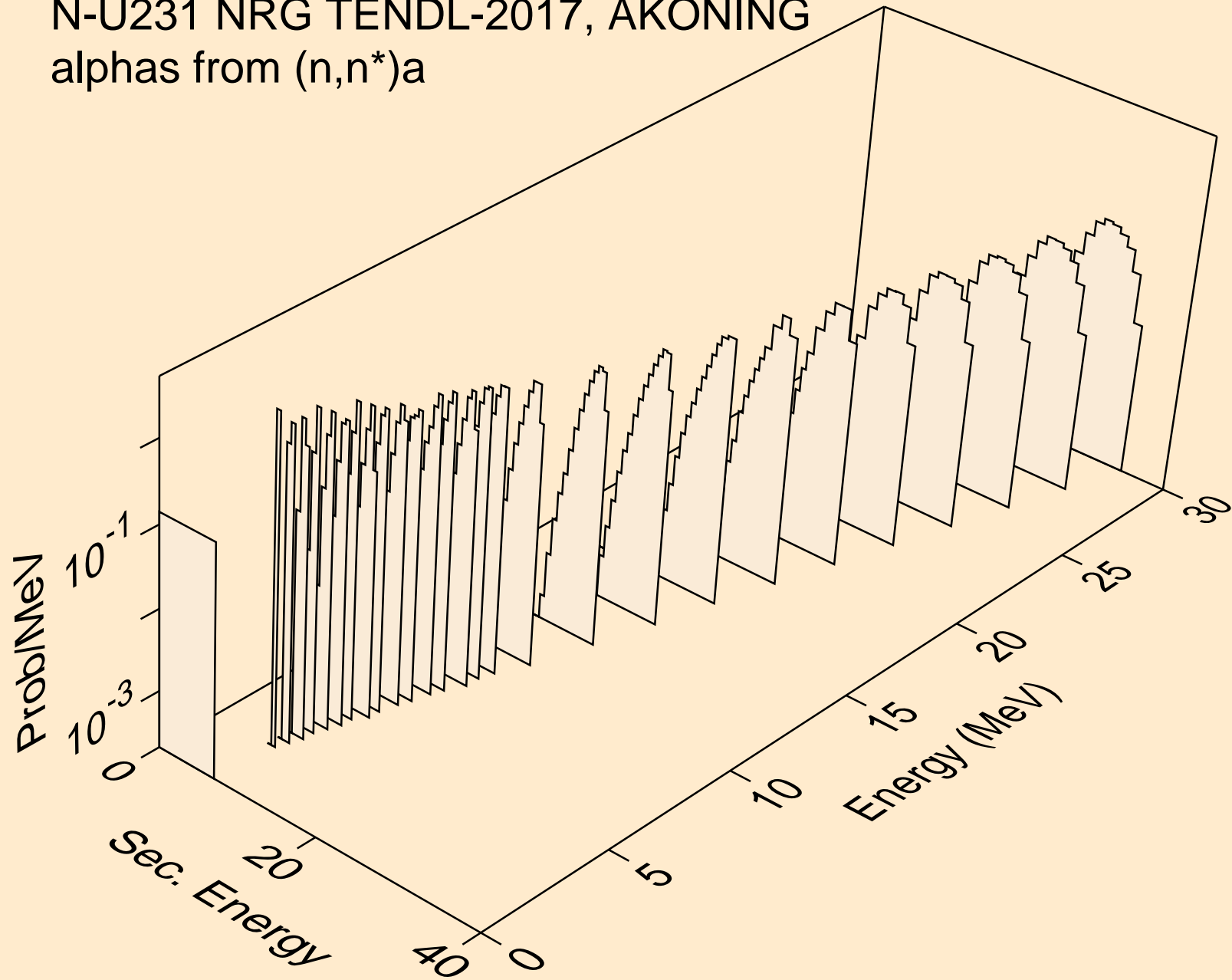
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he3s from (n,he3)



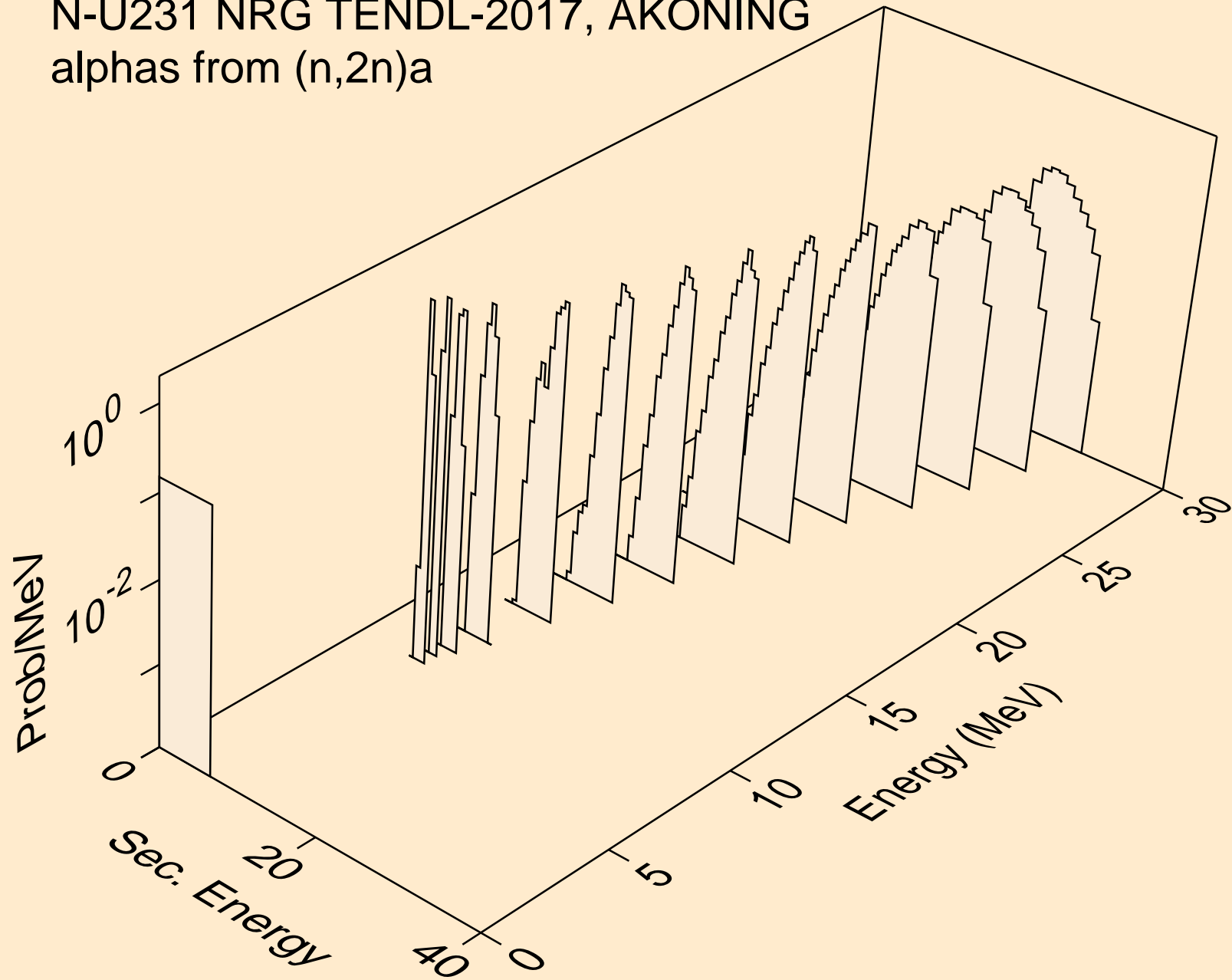
N-U231 NRG TENDL-2017, AKONING  
alphas from (n,x)



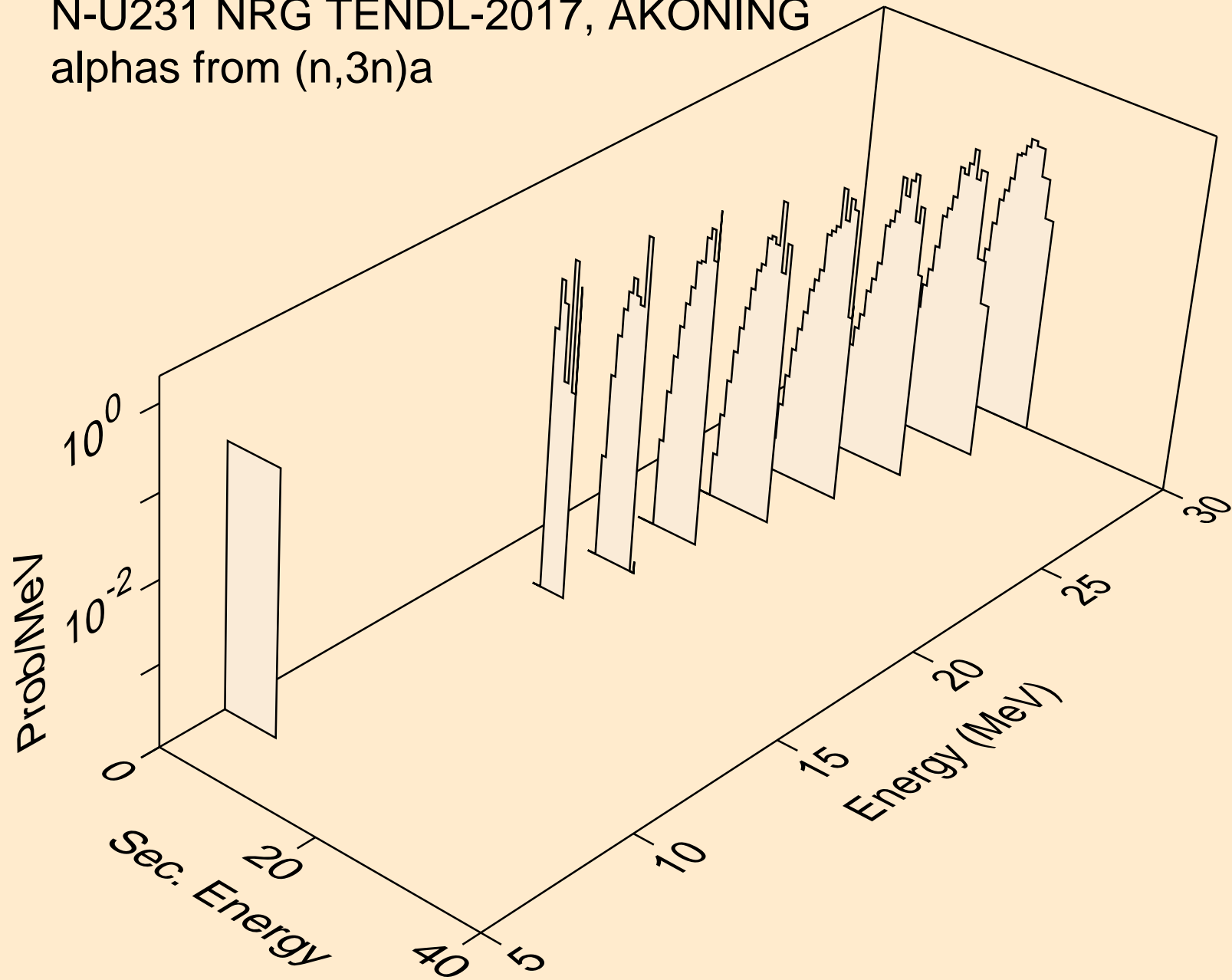
N-U231 NRG TENDL-2017, AKONING  
alphas from (n,n\*)a



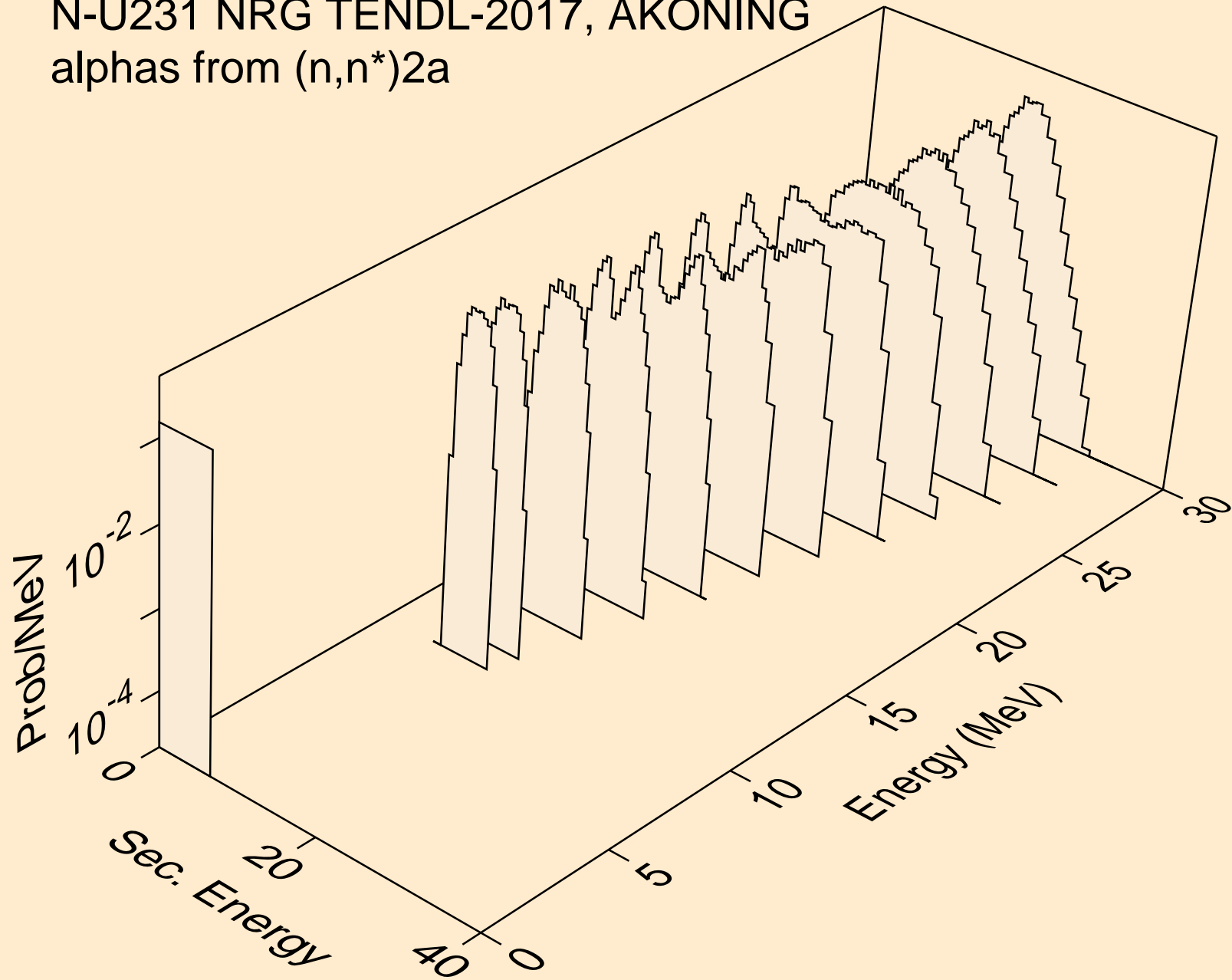
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alphas from (n,2n)a



N-U231 NRG TENDL-2017, AKONING  
alphas from (n,3n)a

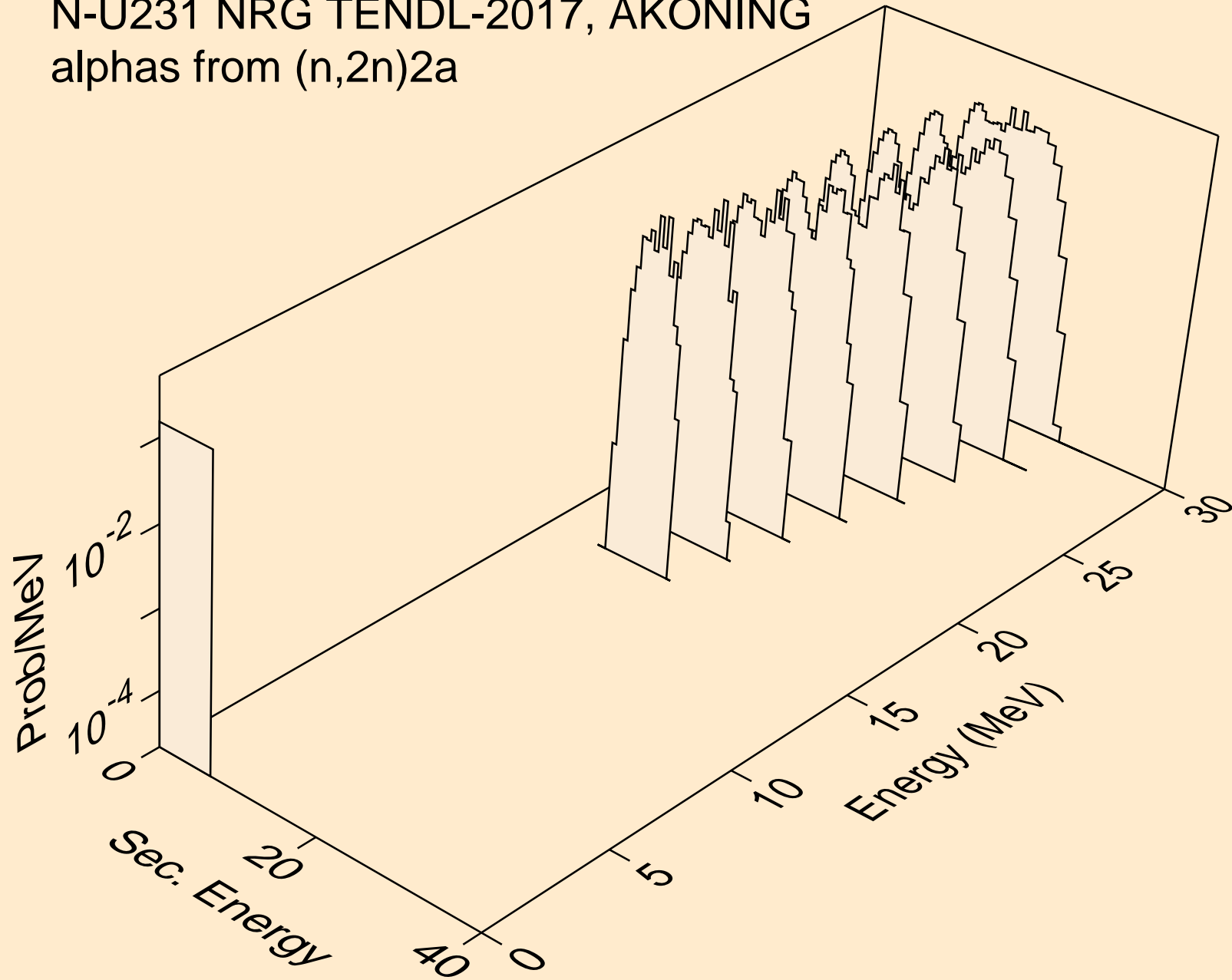


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alphas from (n,n\*)2a

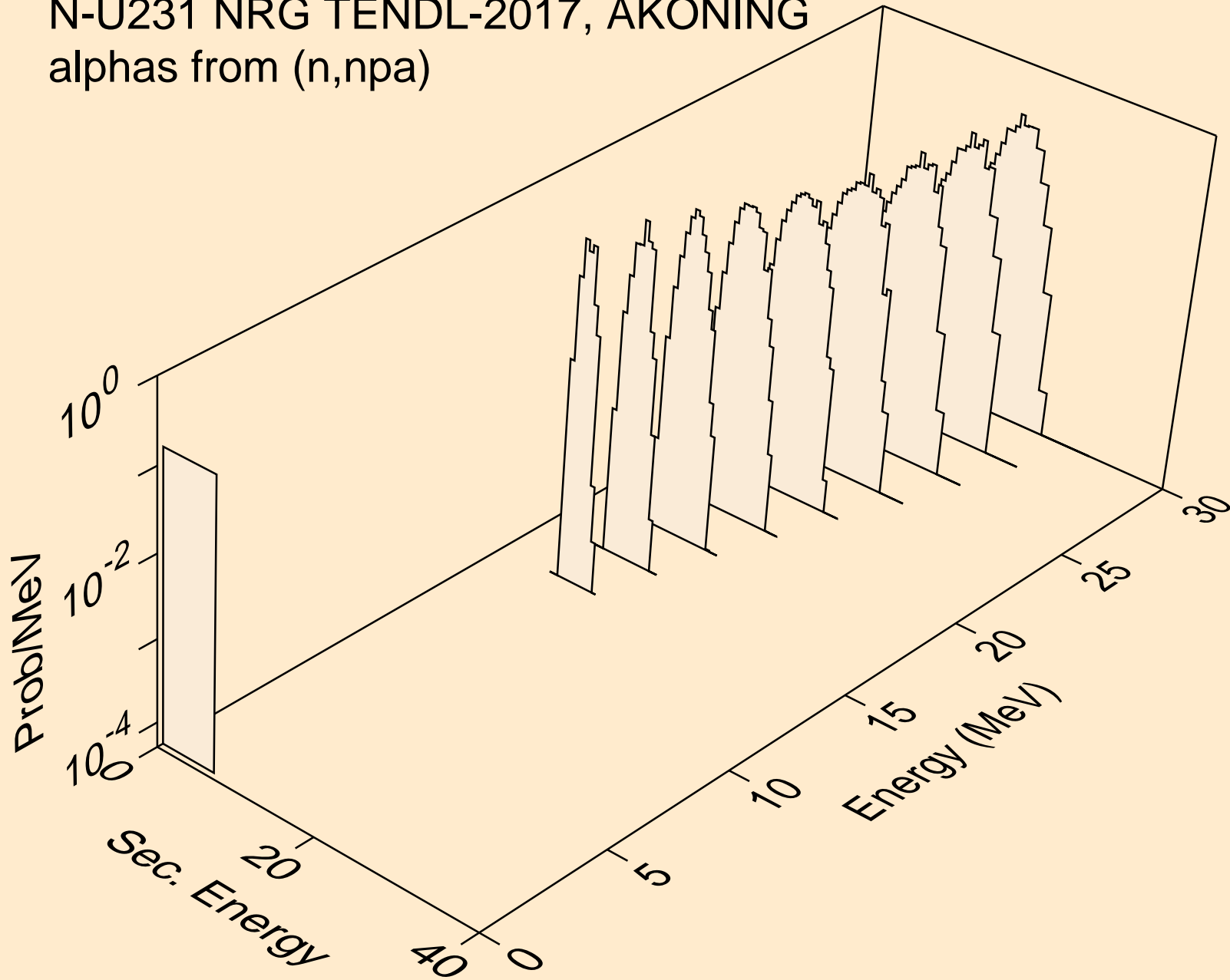




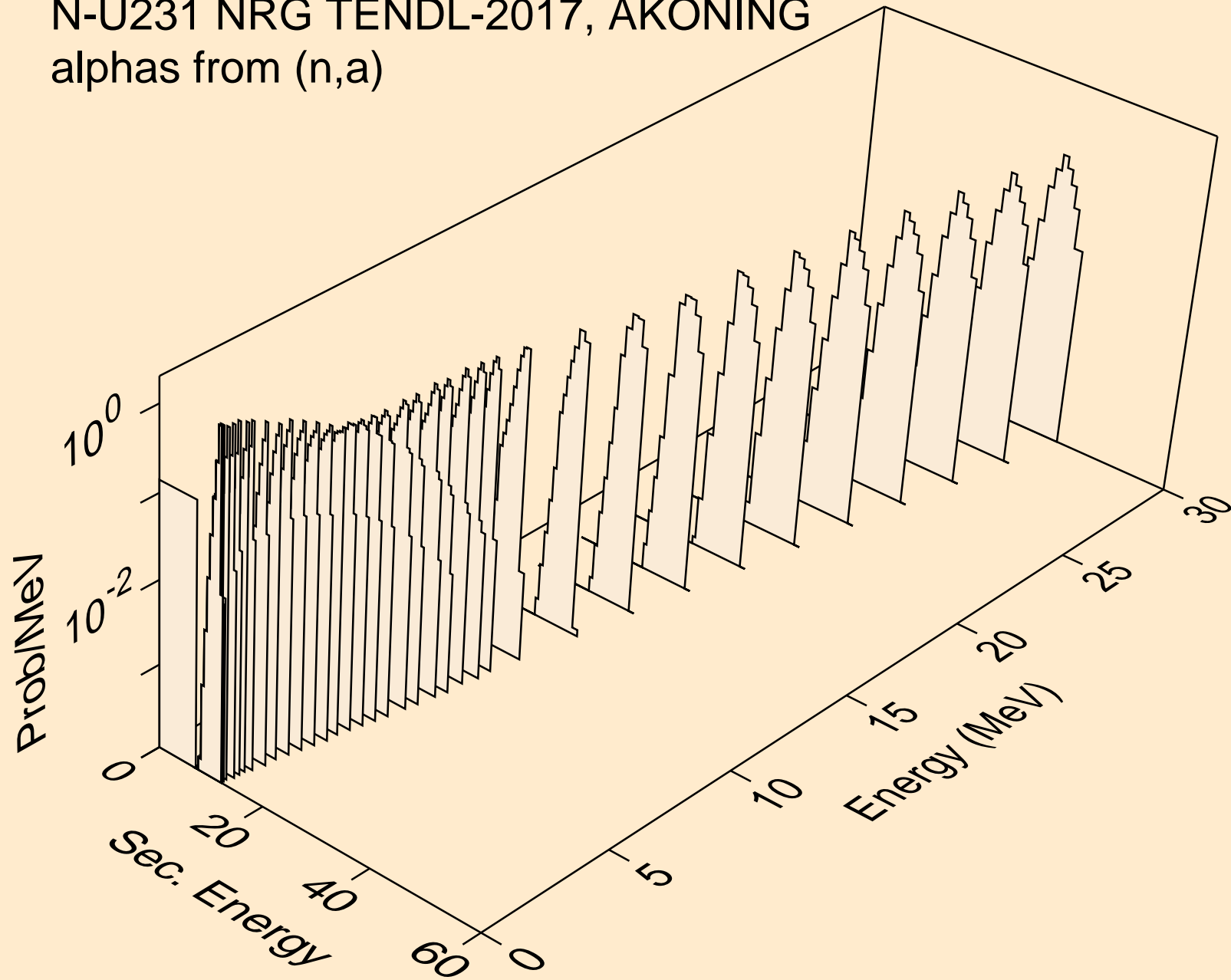
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alphas from (n,2n)2a



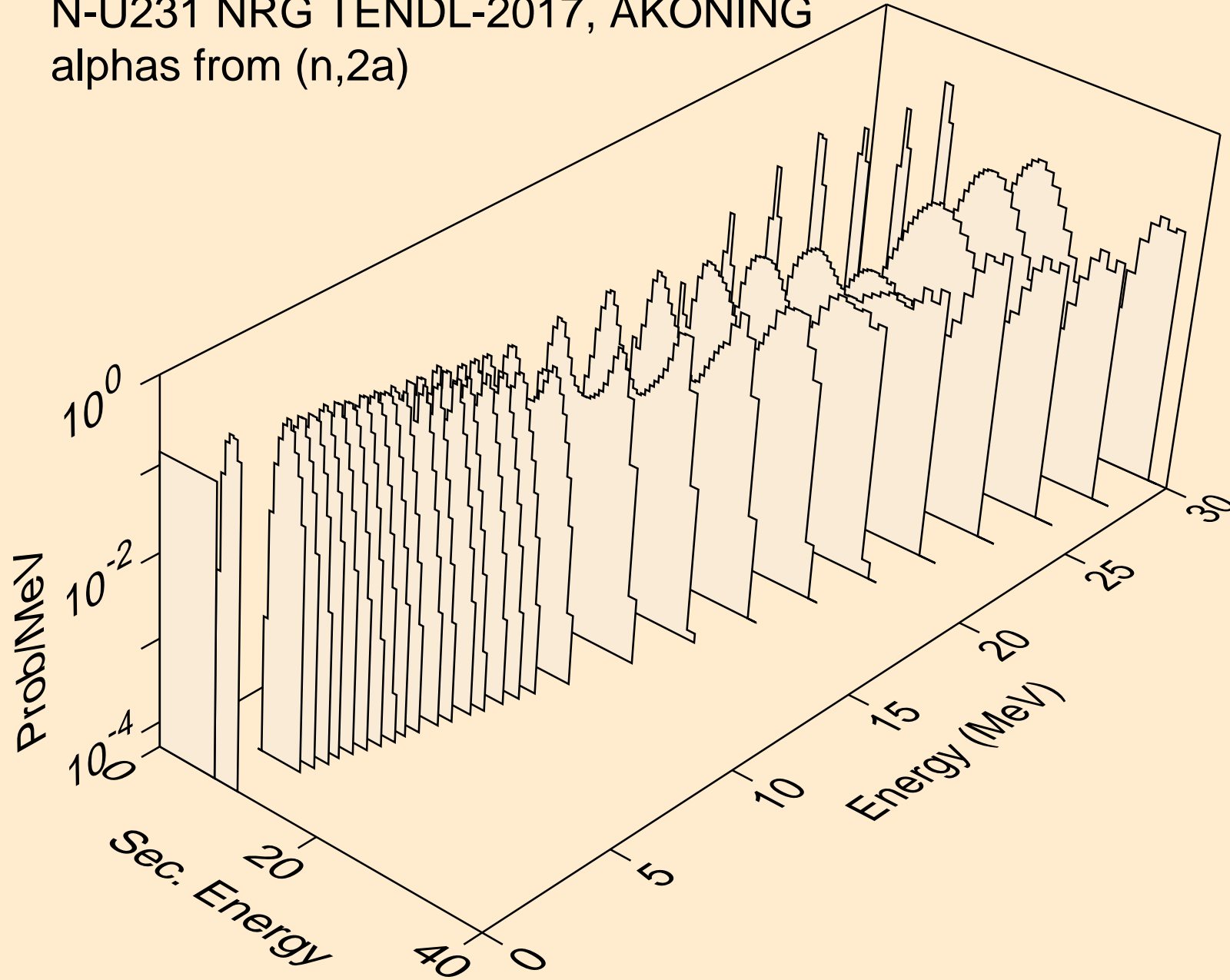
N-U231 NRG TENDL-2017, AKONING  
alphas from (n,npa)



N-U231 NRG TENDL-2017, AKONING  
alphas from (n,a)



N-U231 NRG TENDL-2017, AKONING  
alphas from (n,2a)



N-U231 NRG TENDL-2017, AKONING  
alphas from (n,pa)

