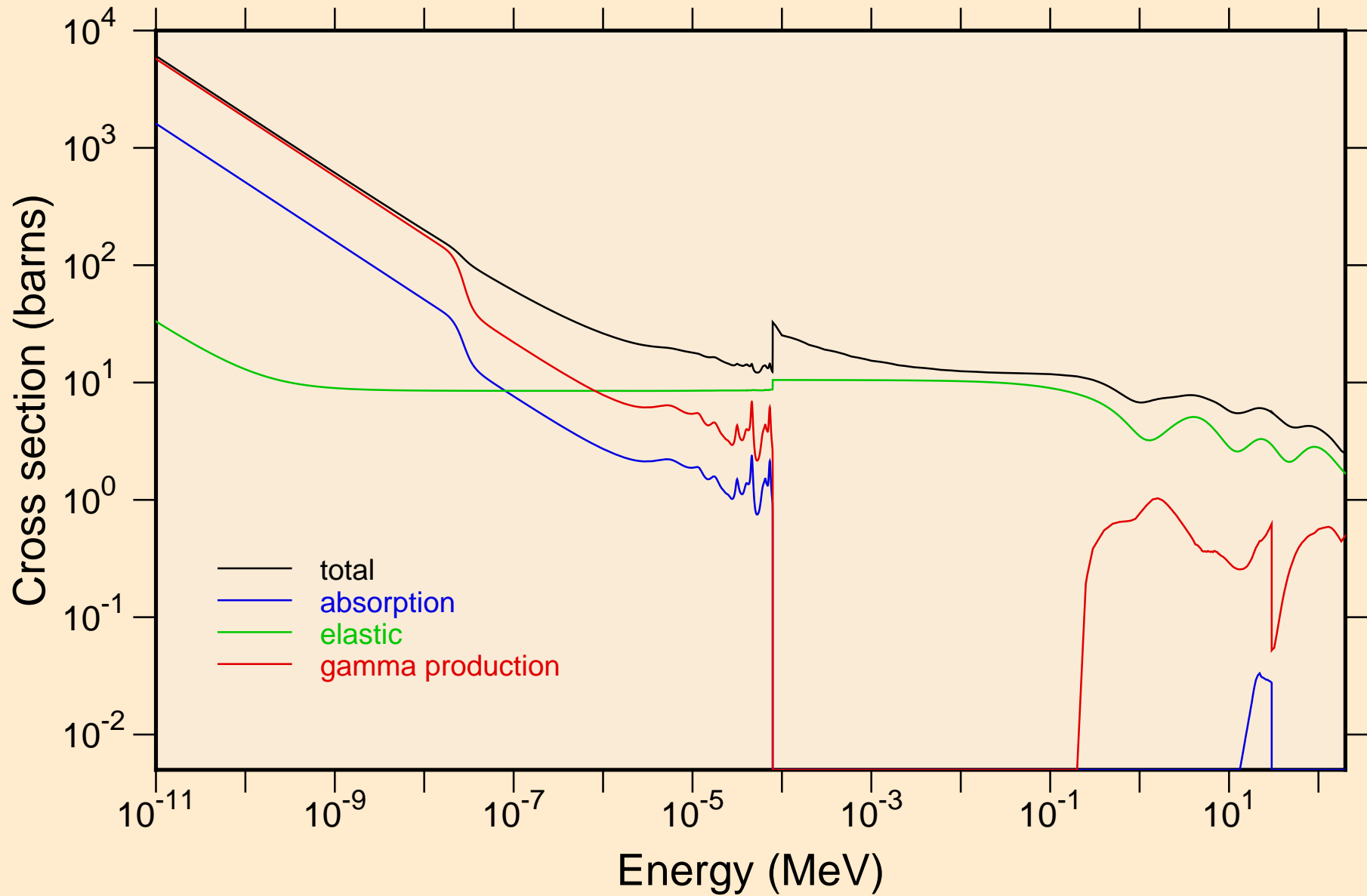


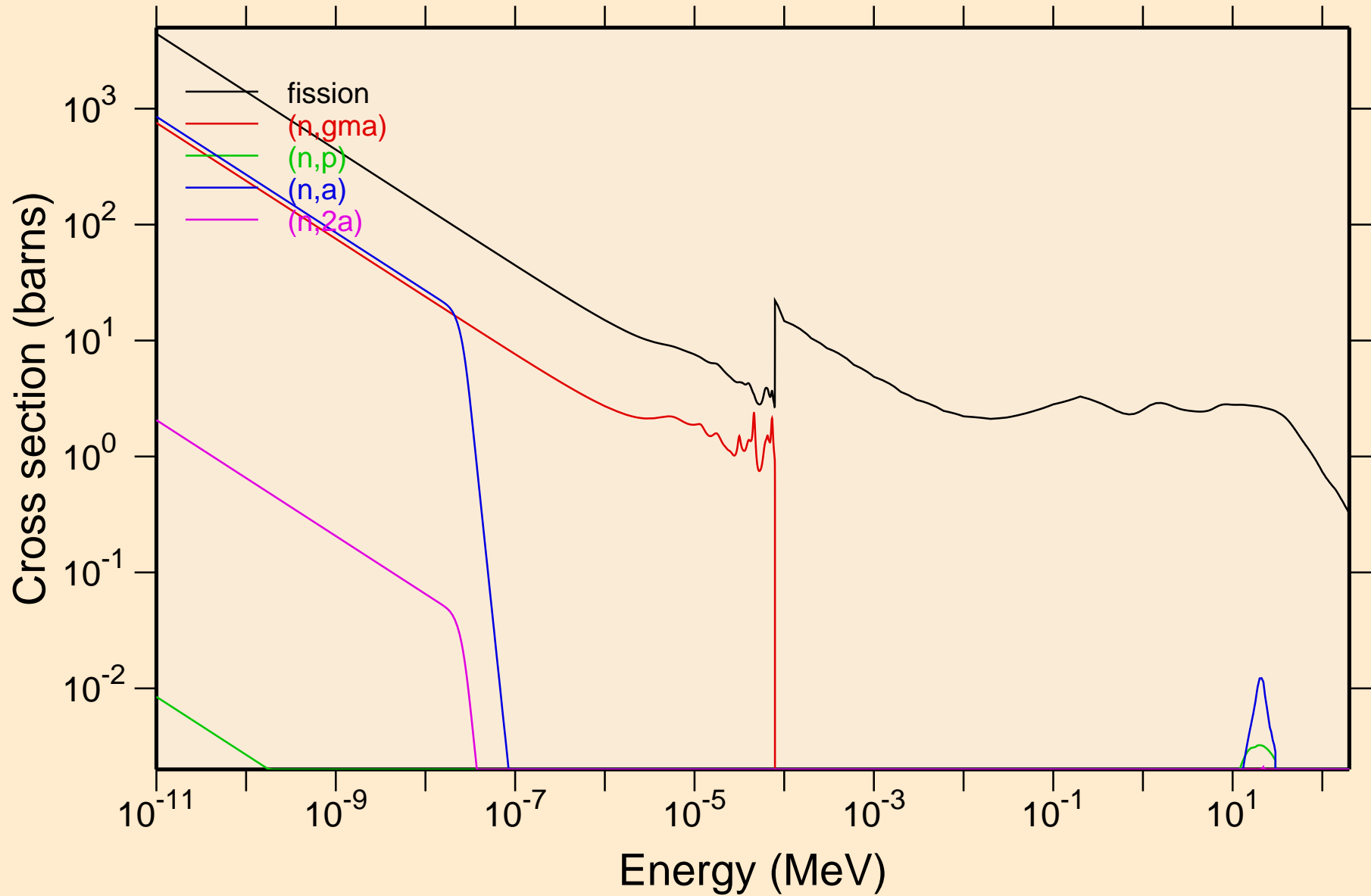
# PU231 NRG TENDL-2015, AKONING

## Principal cross sections

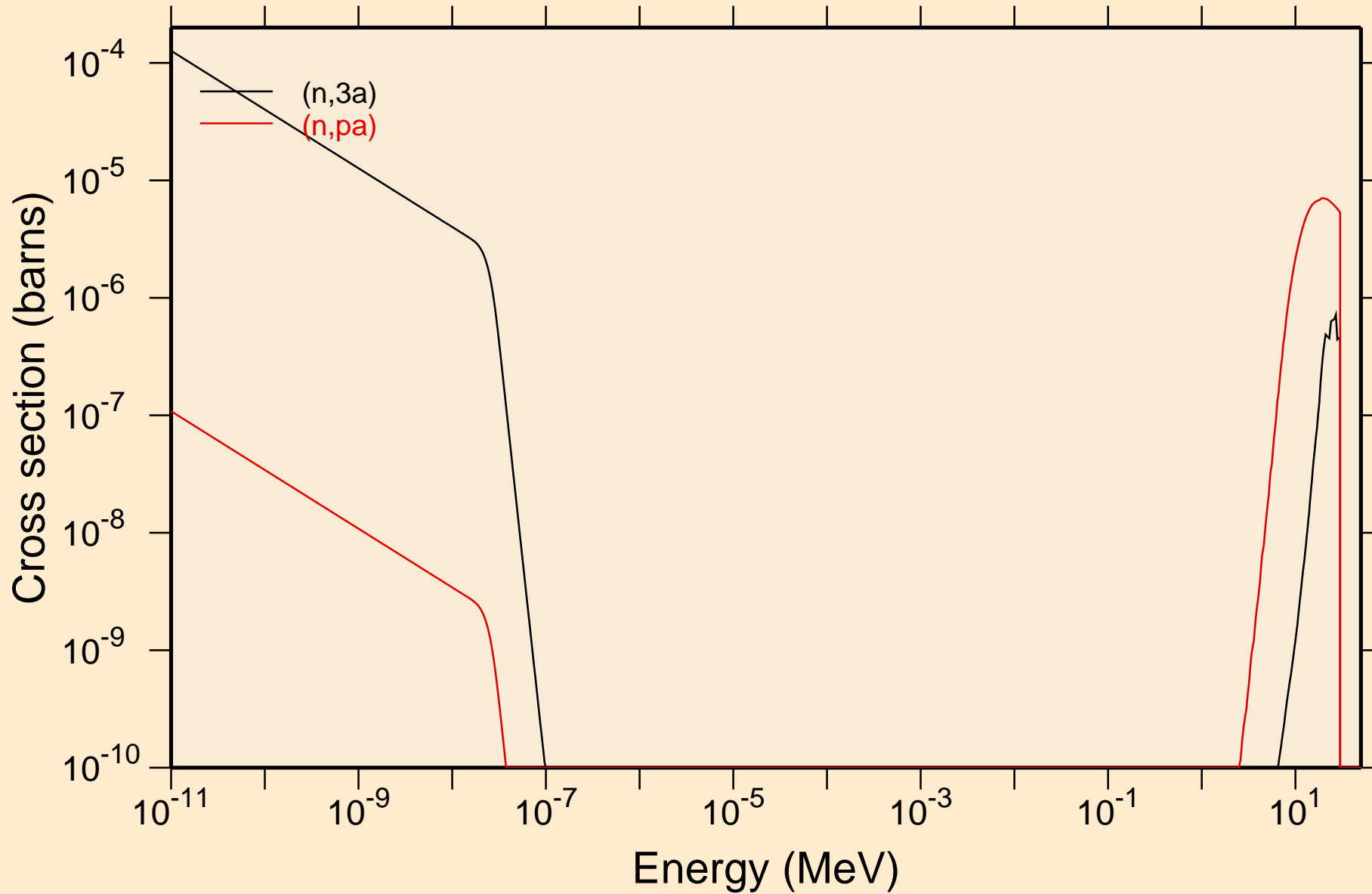


# PU231 NRG TENDL-2015, AKONING

## Non-threshold reactions

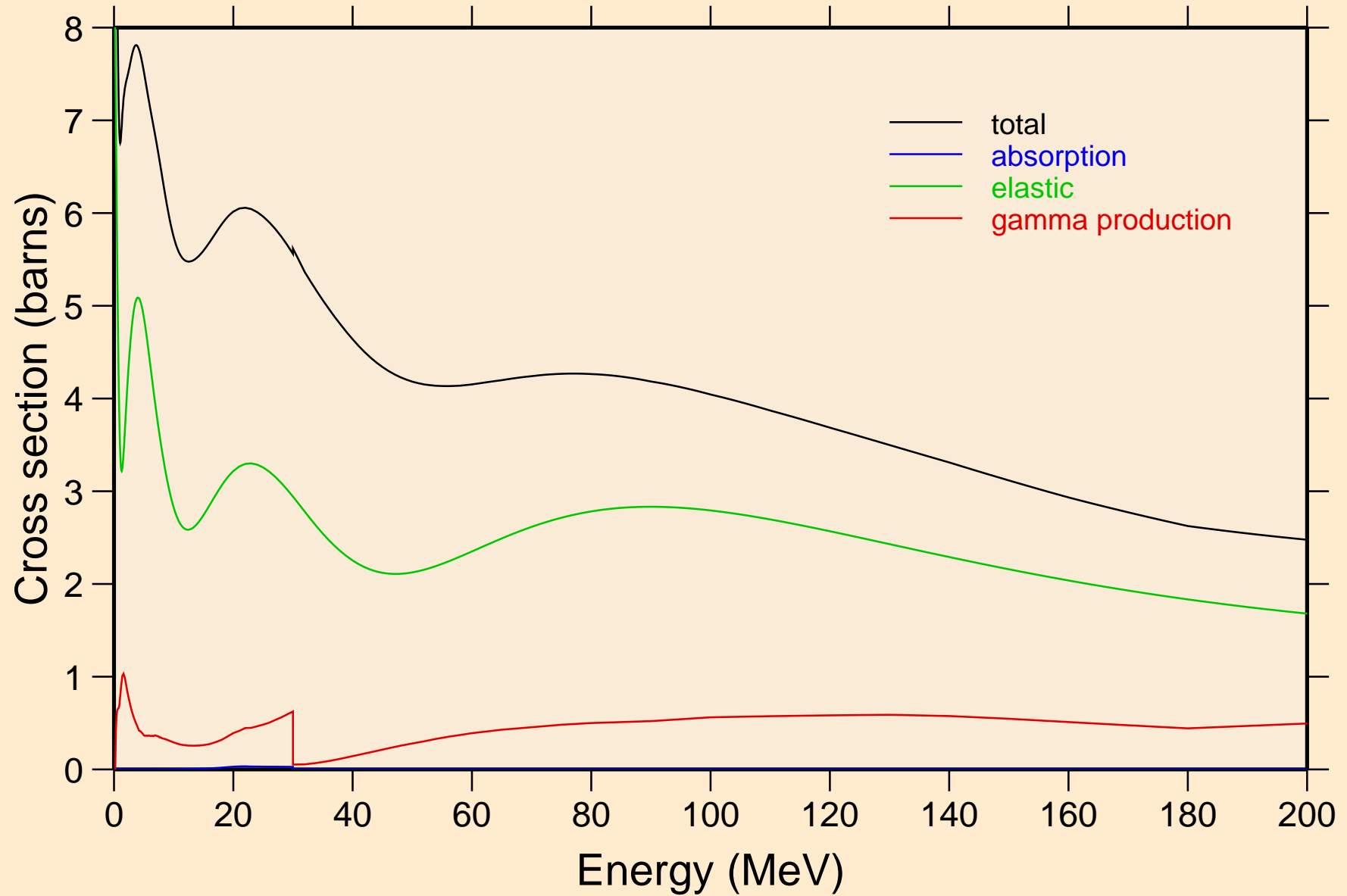


PU231 NRG TENDL-2015, AKONING  
Non-threshold reactions



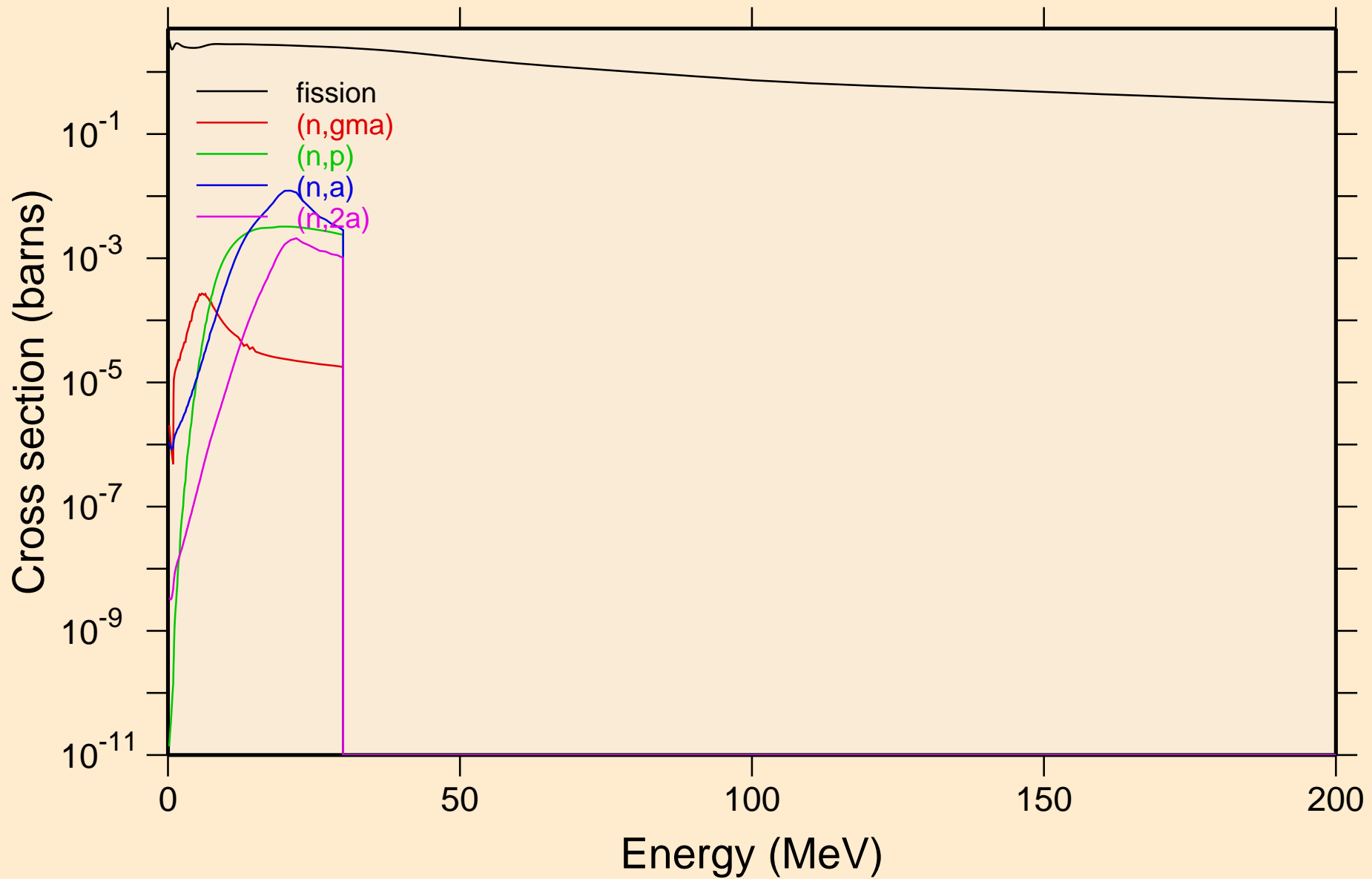
# PU231 NRG TENDL-2015, AKONING

## Principal cross sections



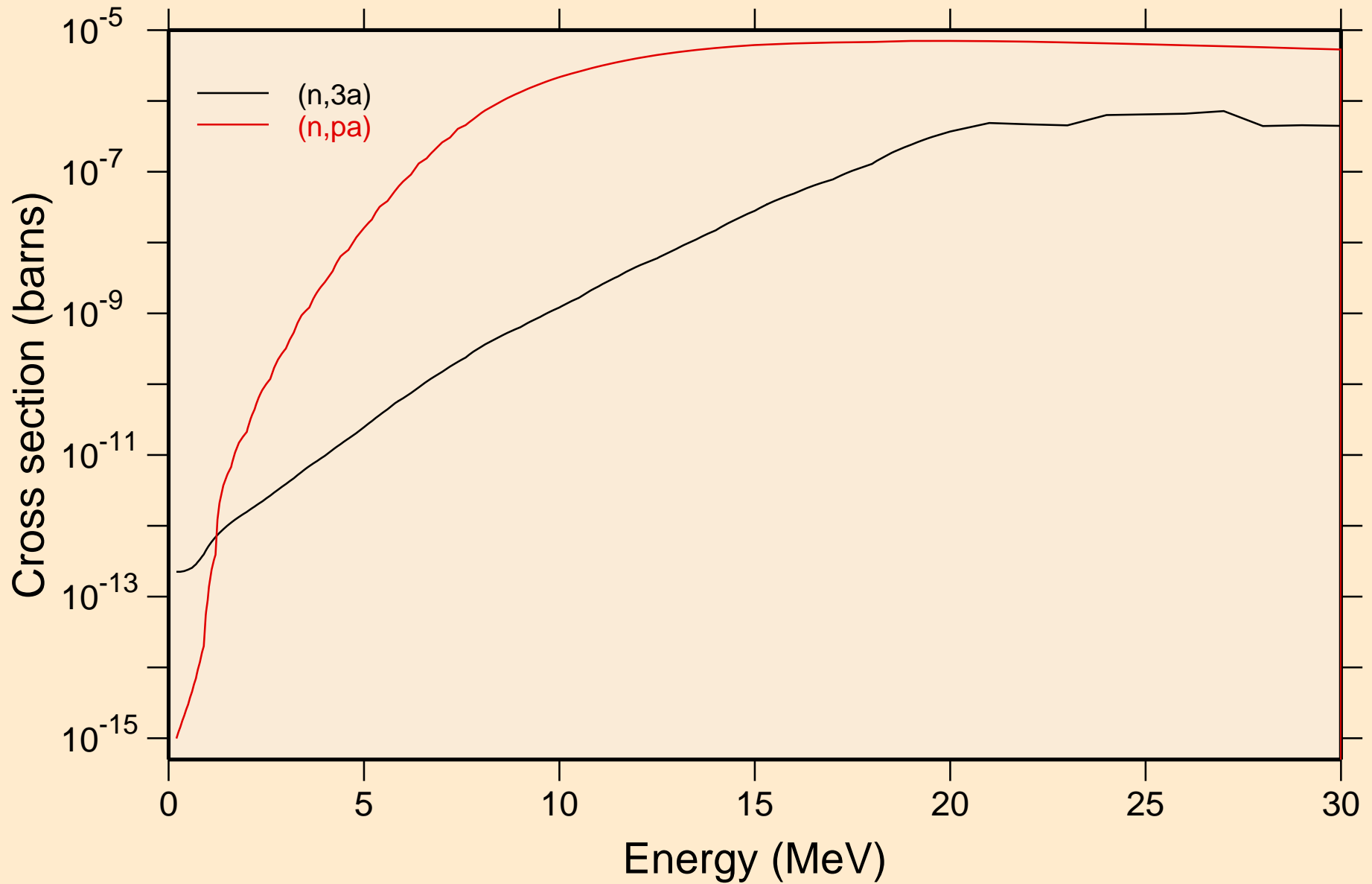
# PU231 NRG TENDL-2015, AKONING

## Non-threshold reactions

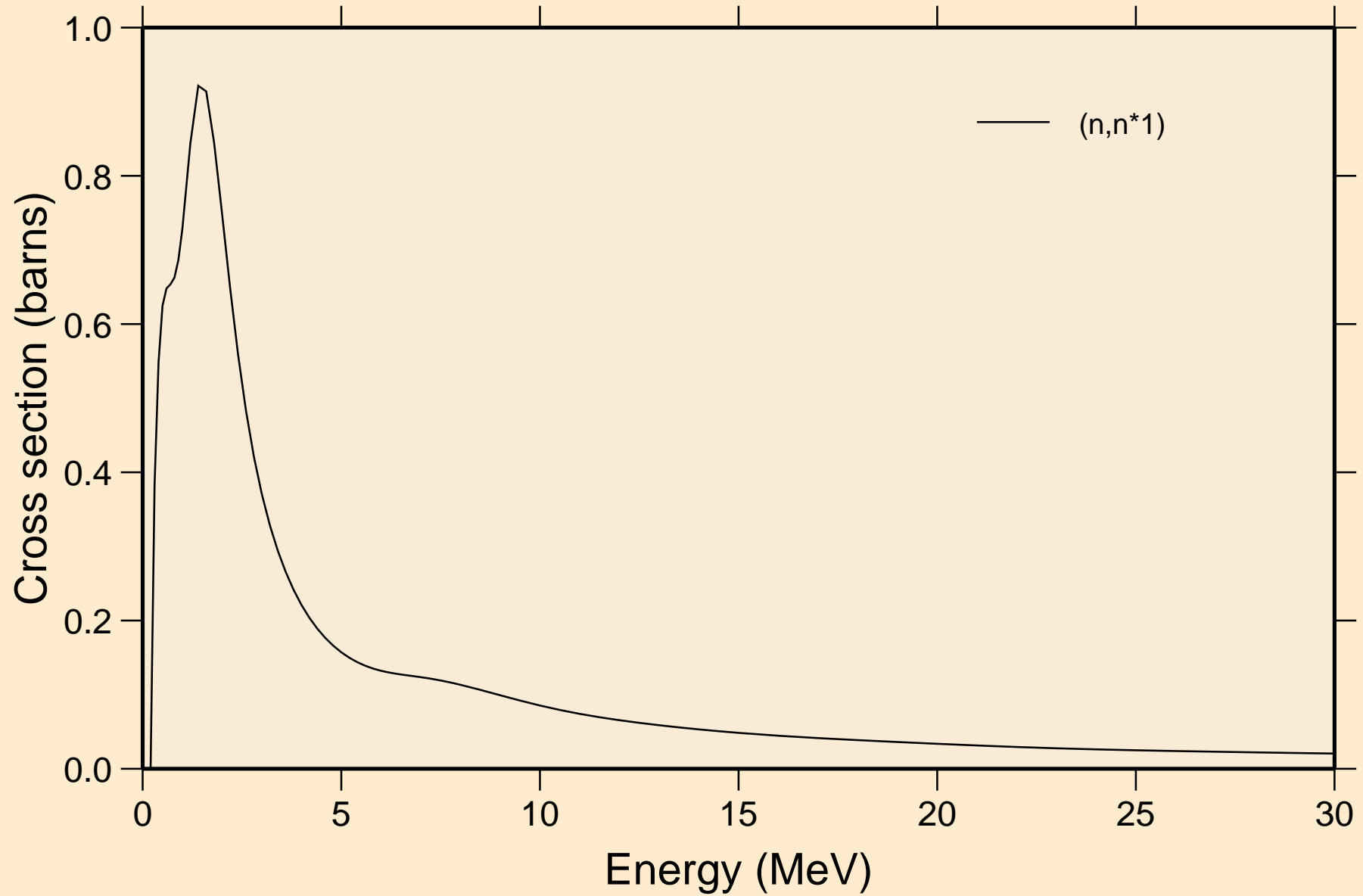


# PU231 NRG TENDL-2015, AKONING

## Non-threshold reactions

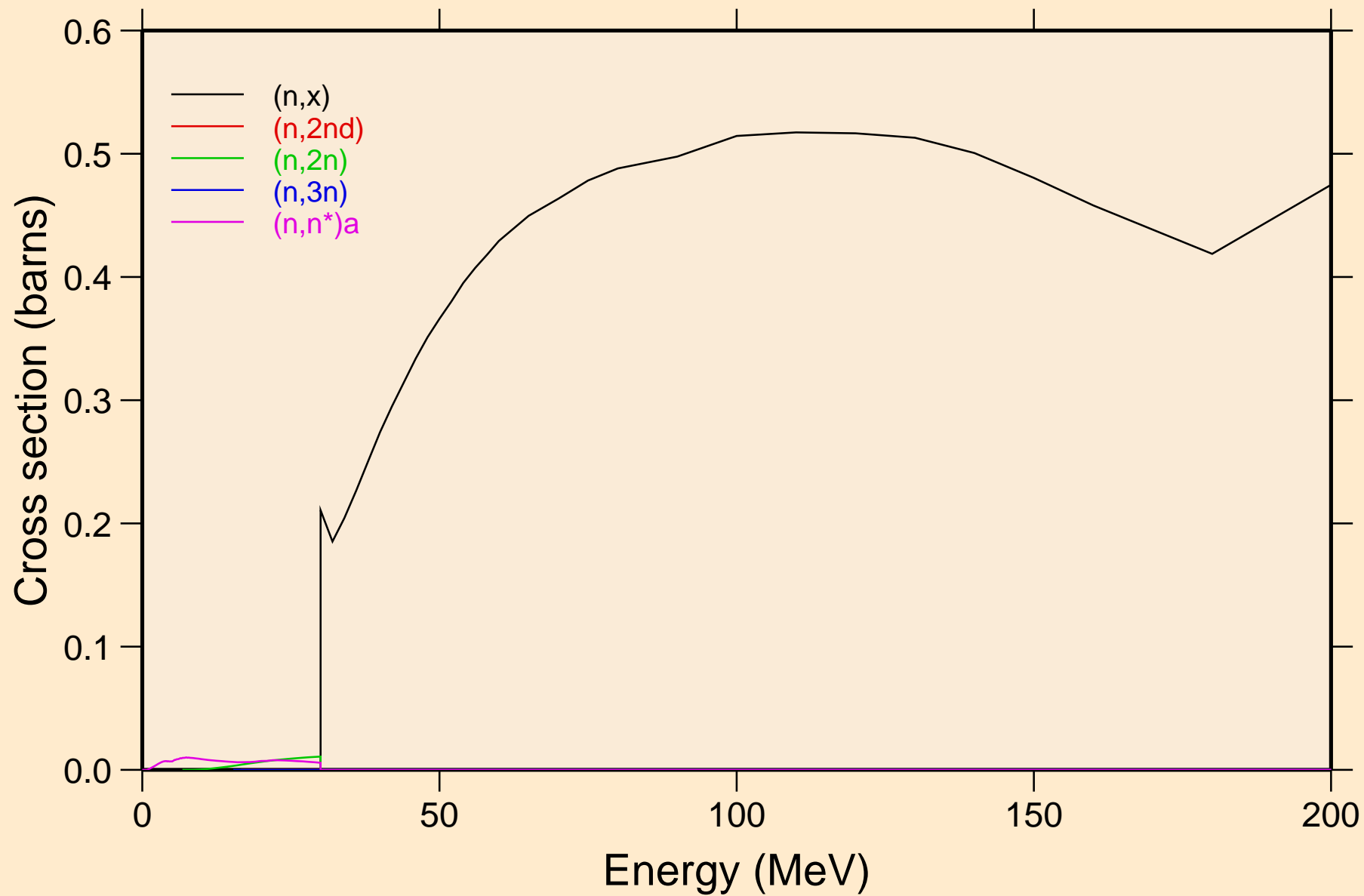


PU231 NRG TENDL-2015, AKONING  
Inelastic levels



# PU231 NRG TENDL-2015, AKONING

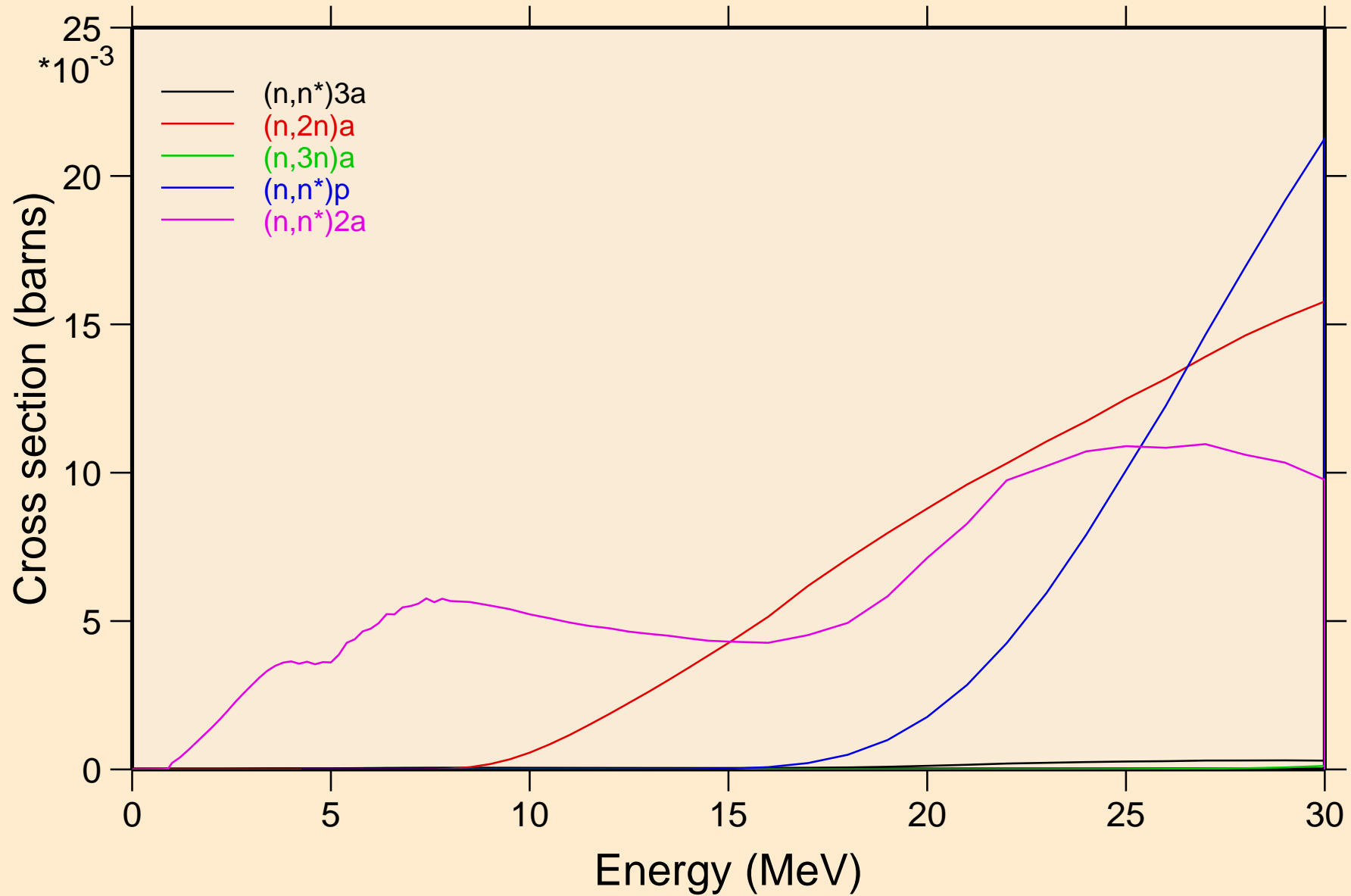
## Threshold reactions





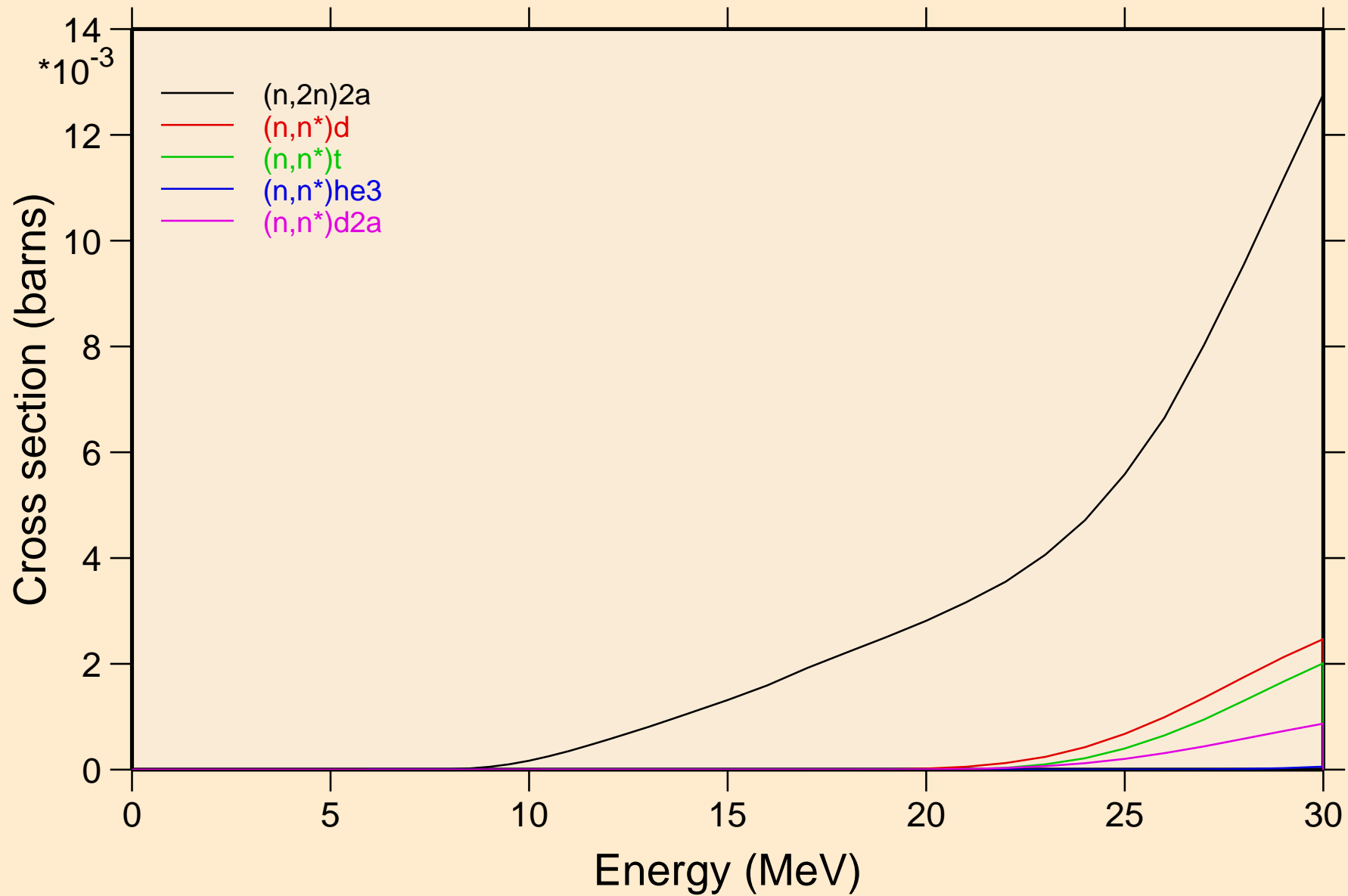
# PU231 NRG TENDL-2015, AKONING

## Threshold reactions



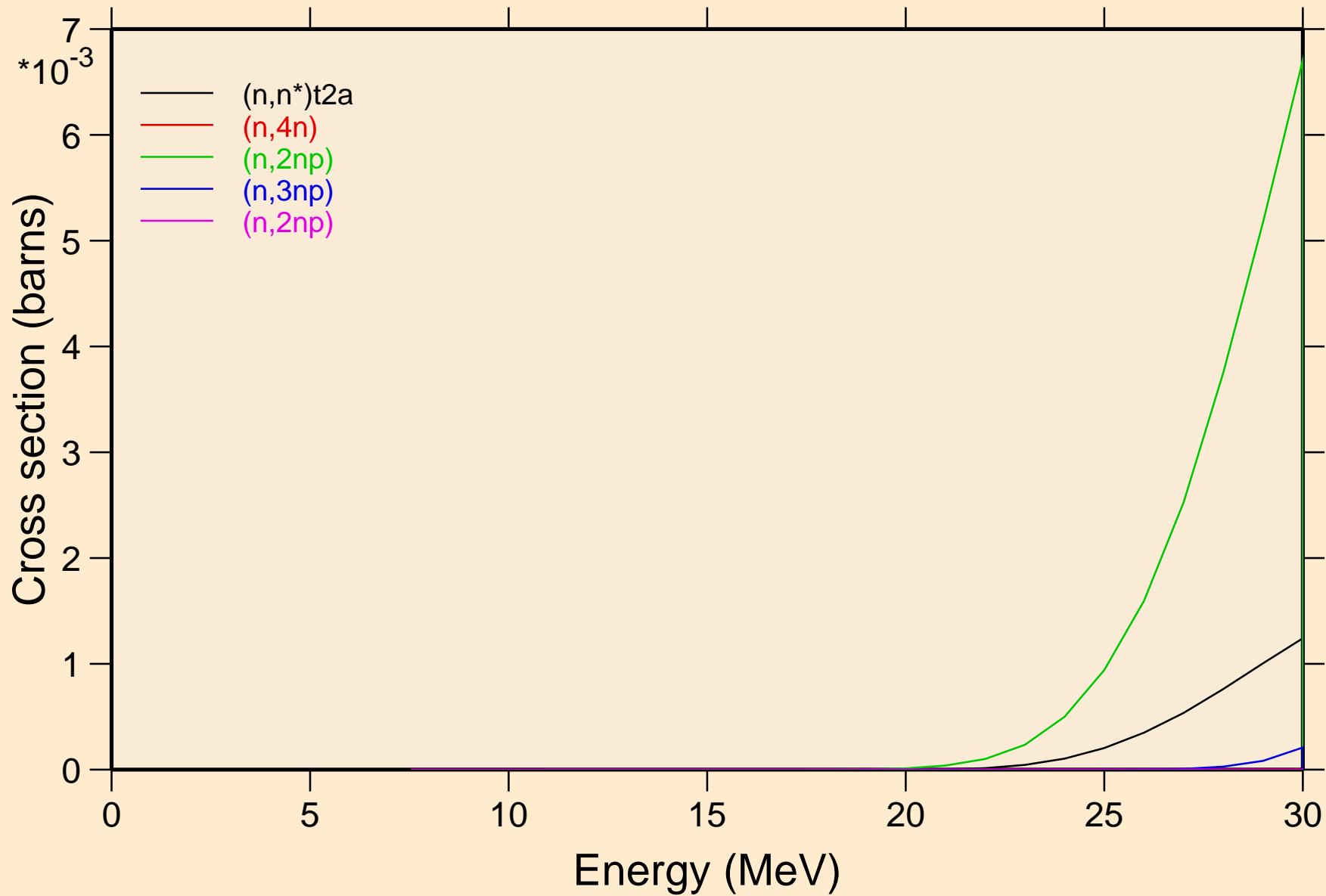
# PU231 NRG TENDL-2015, AKONING

## Threshold reactions



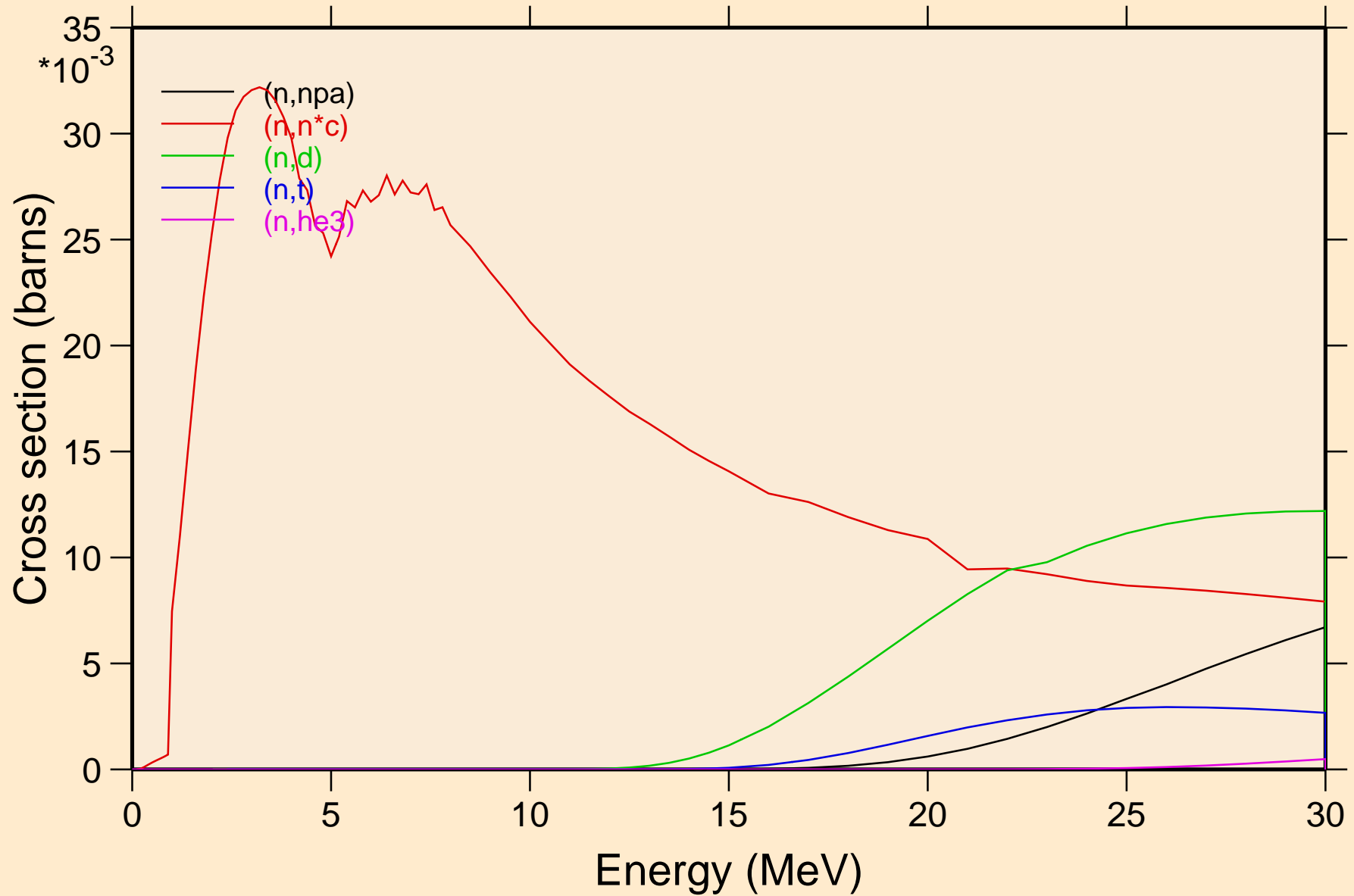
# PU231 NRG TENDL-2015, AKONING

## Threshold reactions



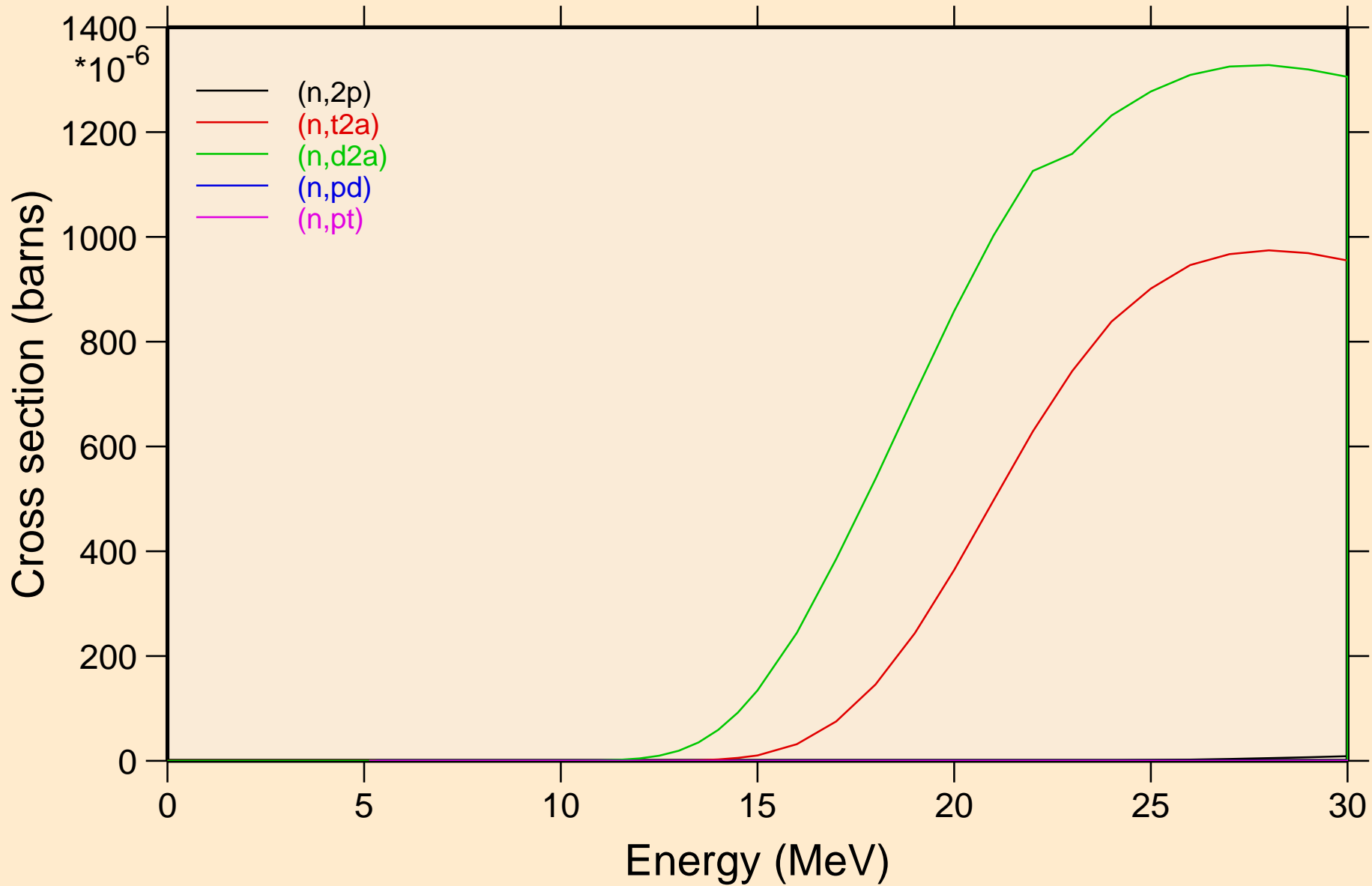
# PU231 NRG TENDL-2015, AKONING

## Threshold reactions



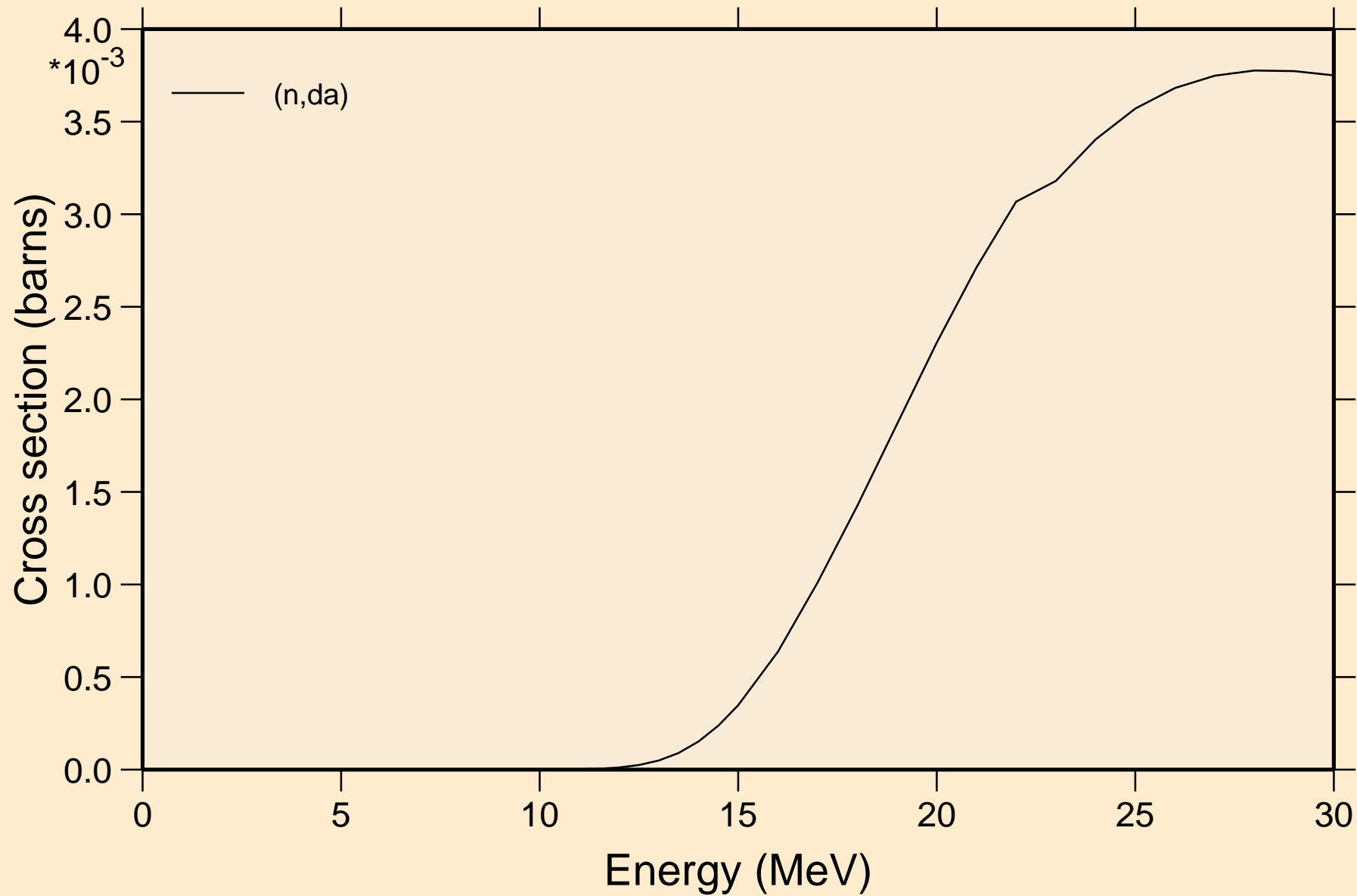
# PU231 NRG TENDL-2015, AKONING

## Threshold reactions

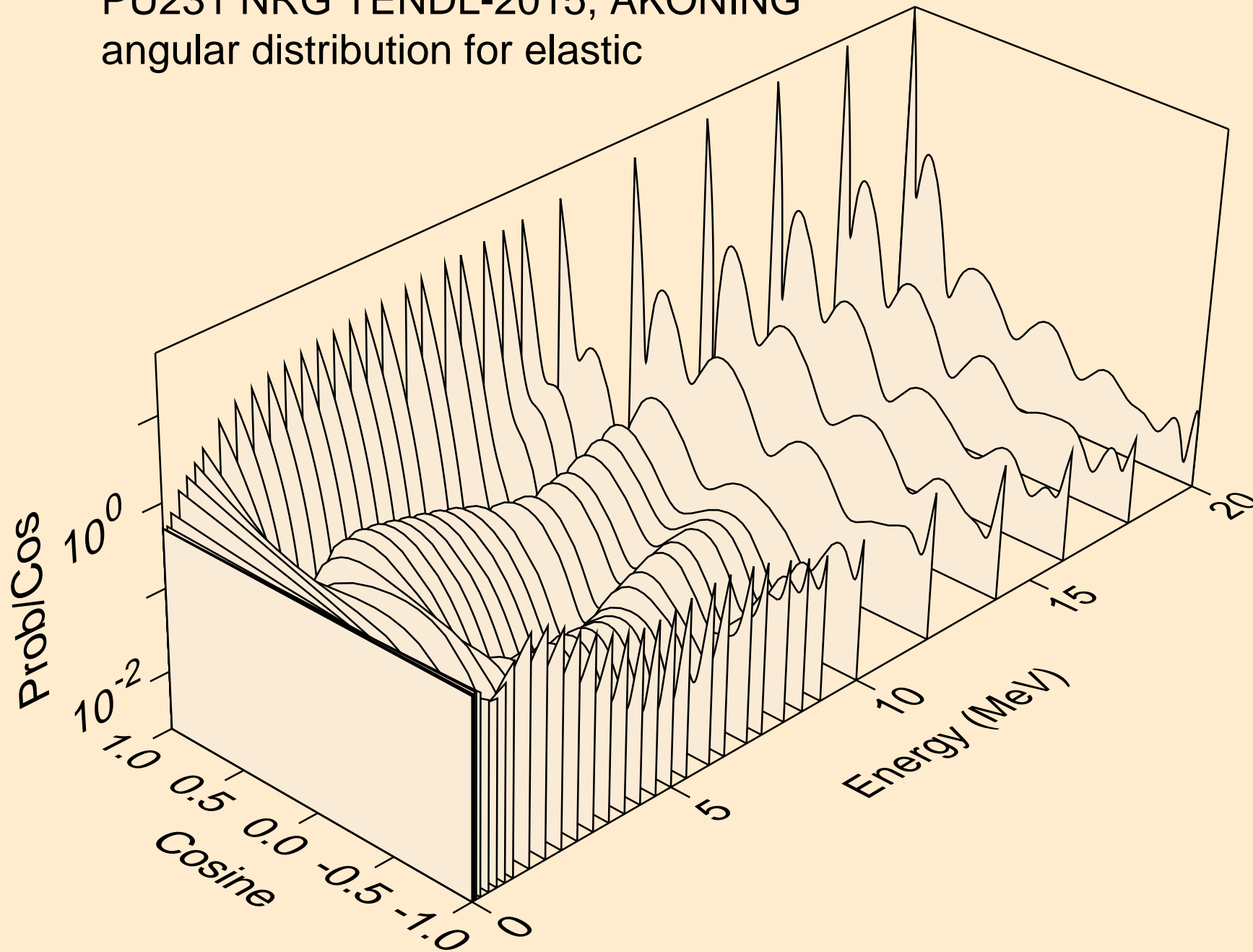


# PU231 NRG TENDL-2015, AKONING

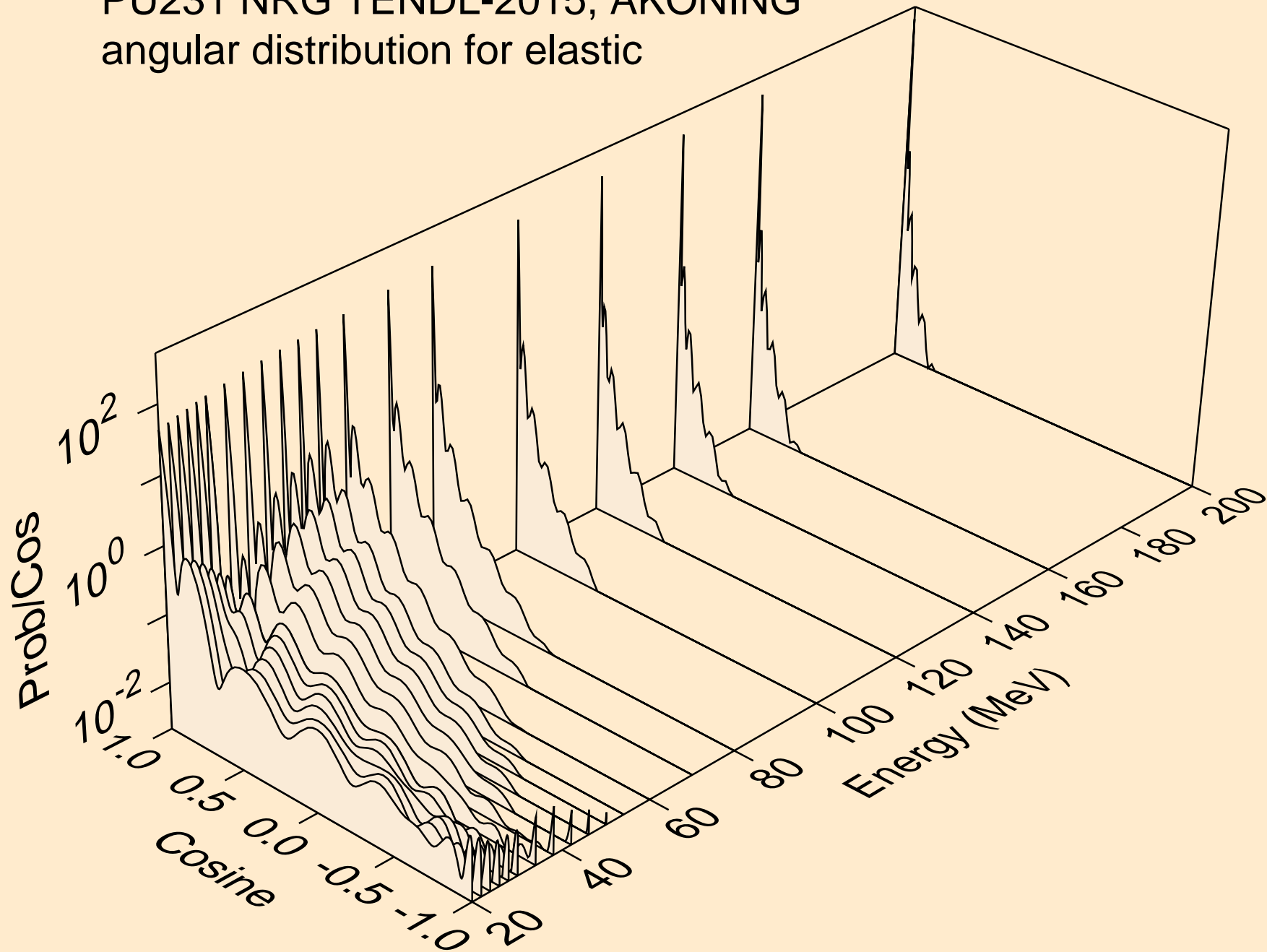
## Threshold reactions



PU231 NRG TENDL-2015, AKONING  
angular distribution for elastic

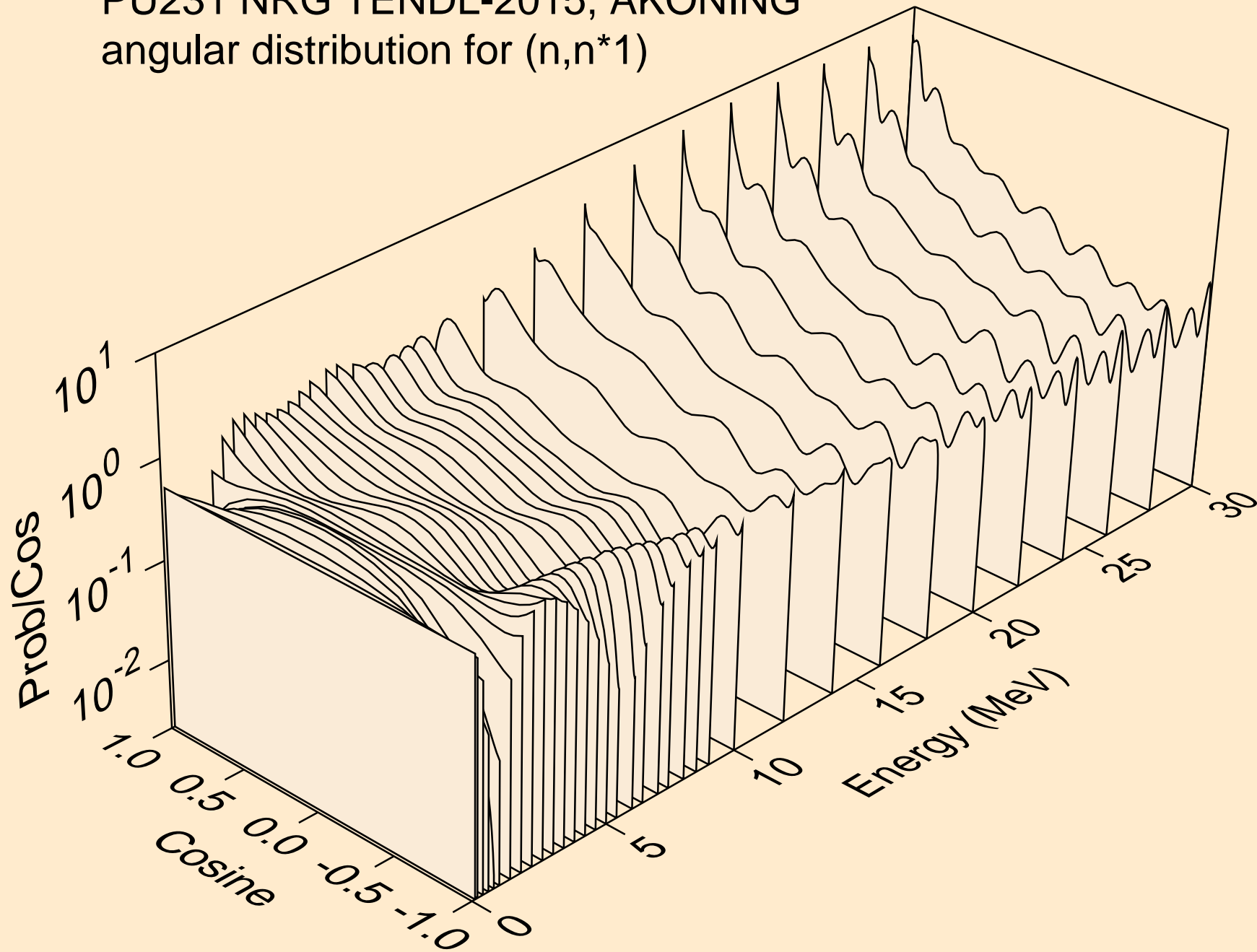


PU231 NRG TENDL-2015, AKONING  
angular distribution for elastic



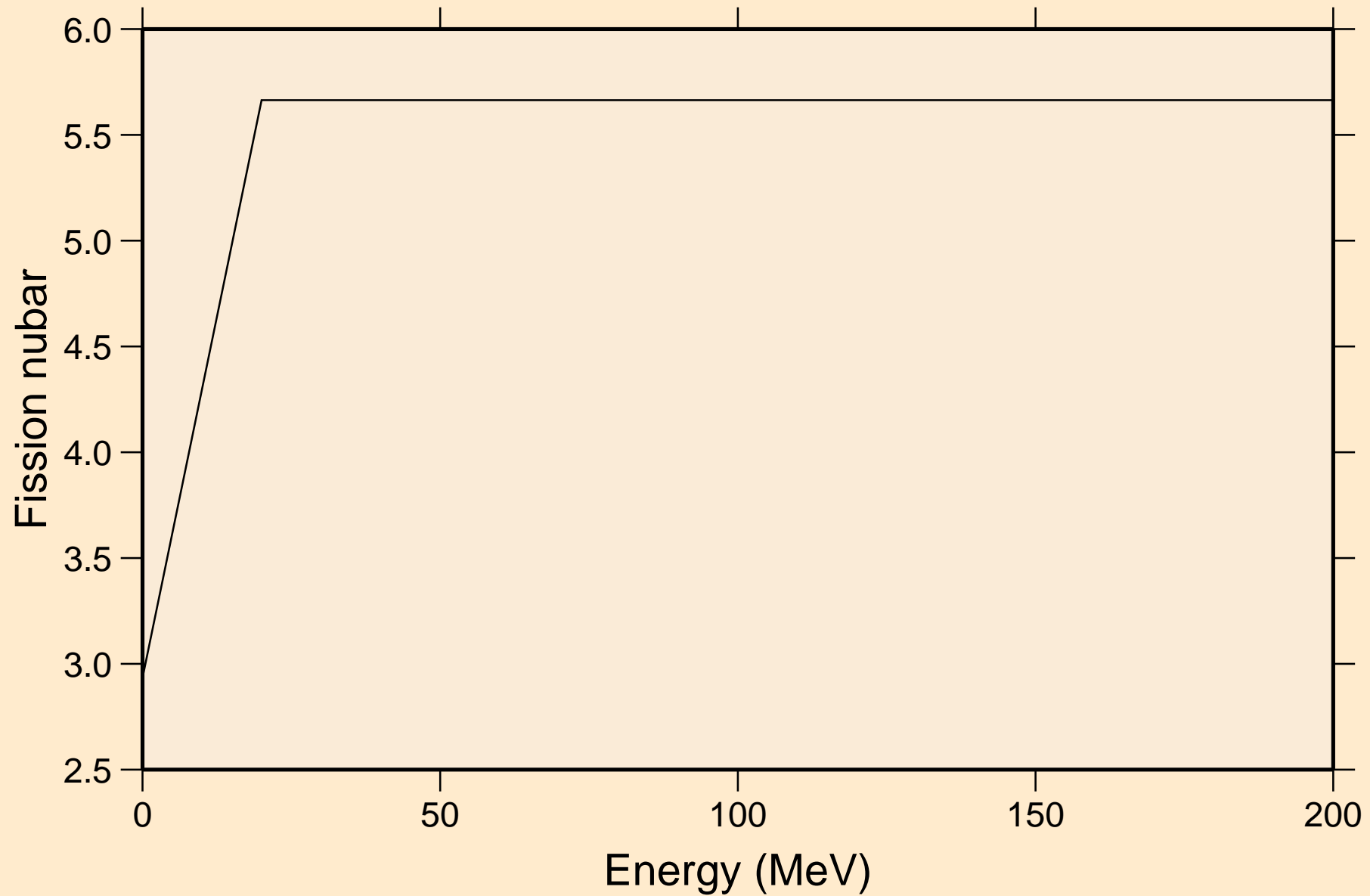


PU231 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*1)

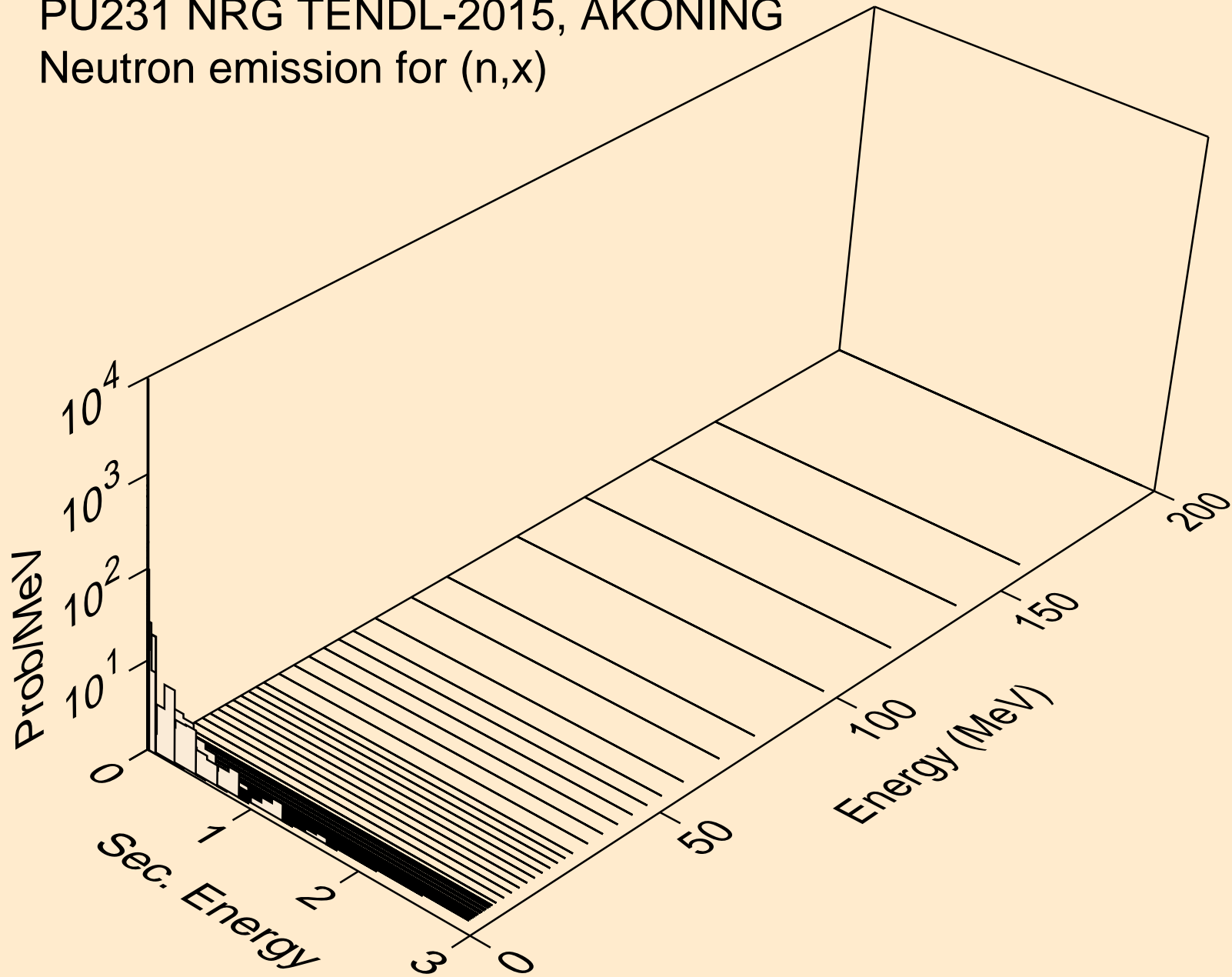


# PU231 NRG TENDL-2015, AKONING

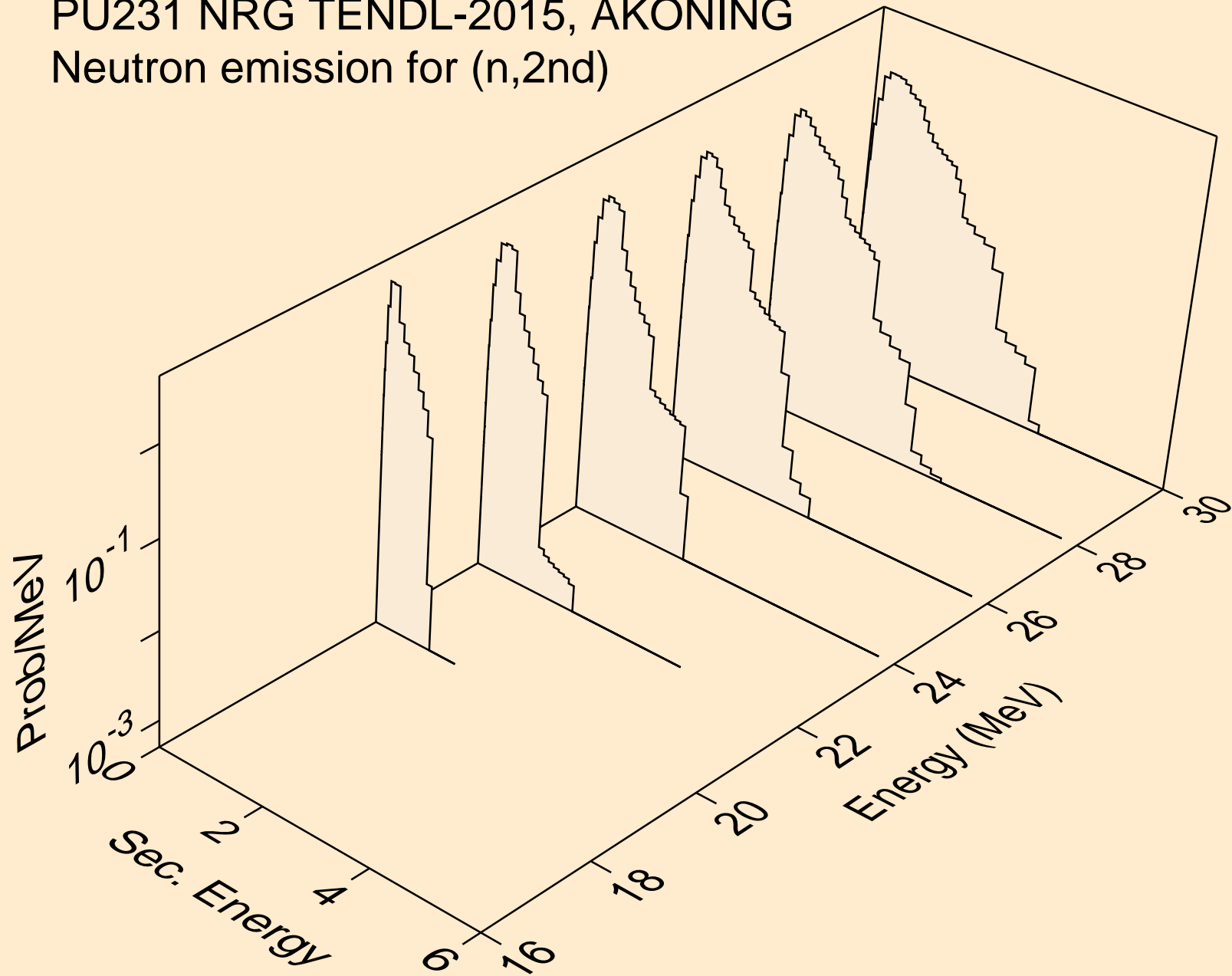
Total fission nubar



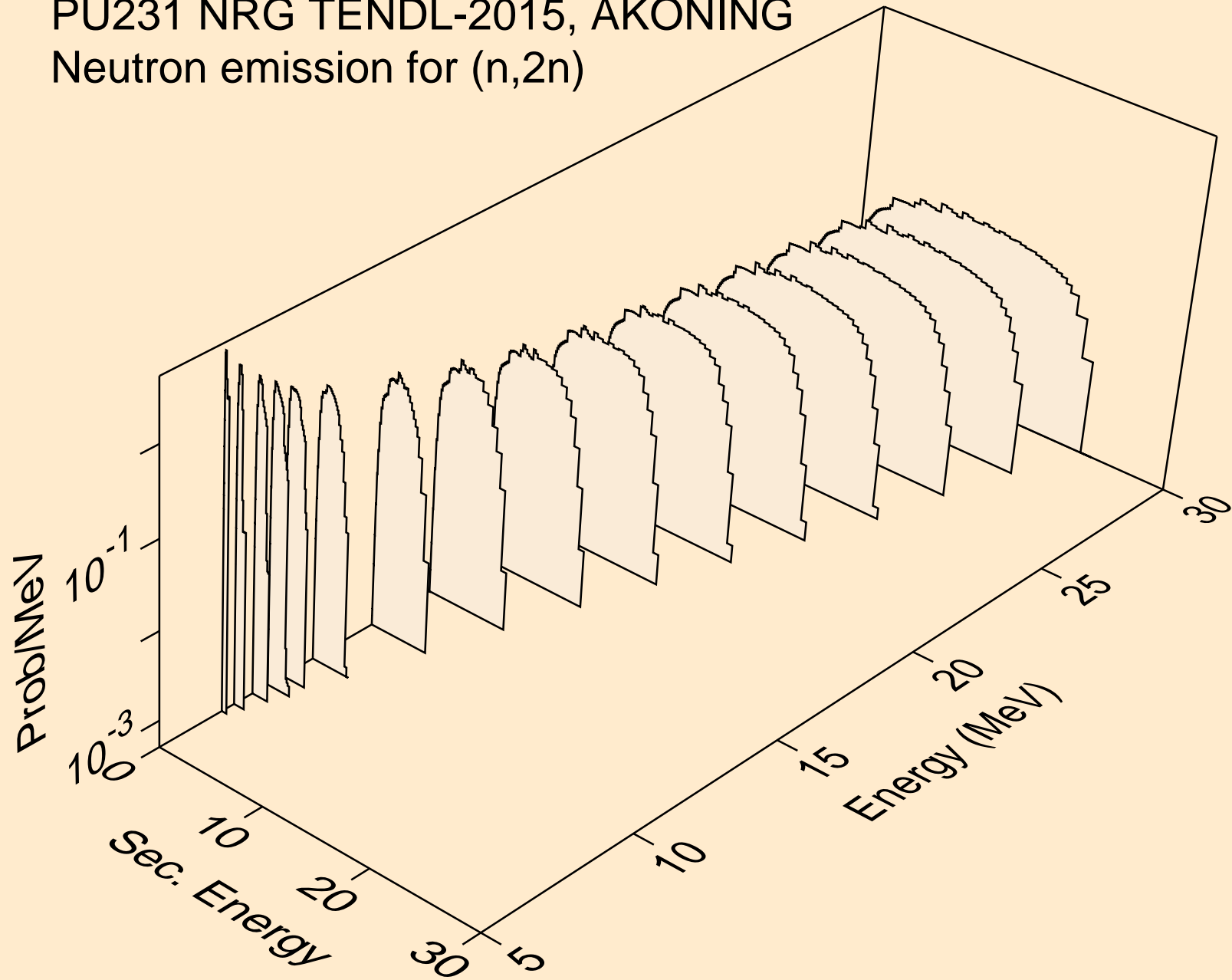
PU231 NRG TENDL-2015, AKONING  
Neutron emission for (n,x)



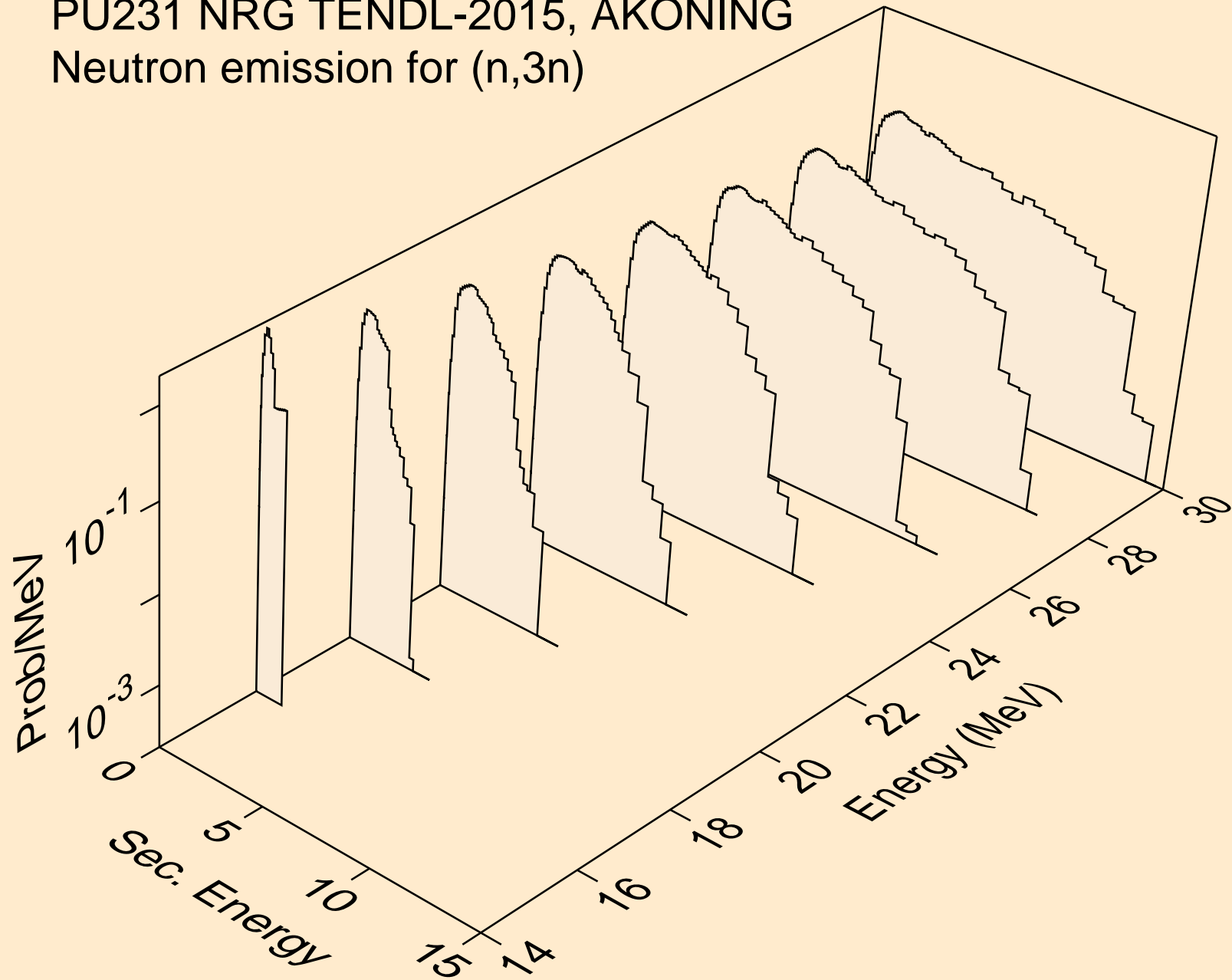
PU231 NRG TENDL-2015, AKONING  
Neutron emission for (n,2nd)



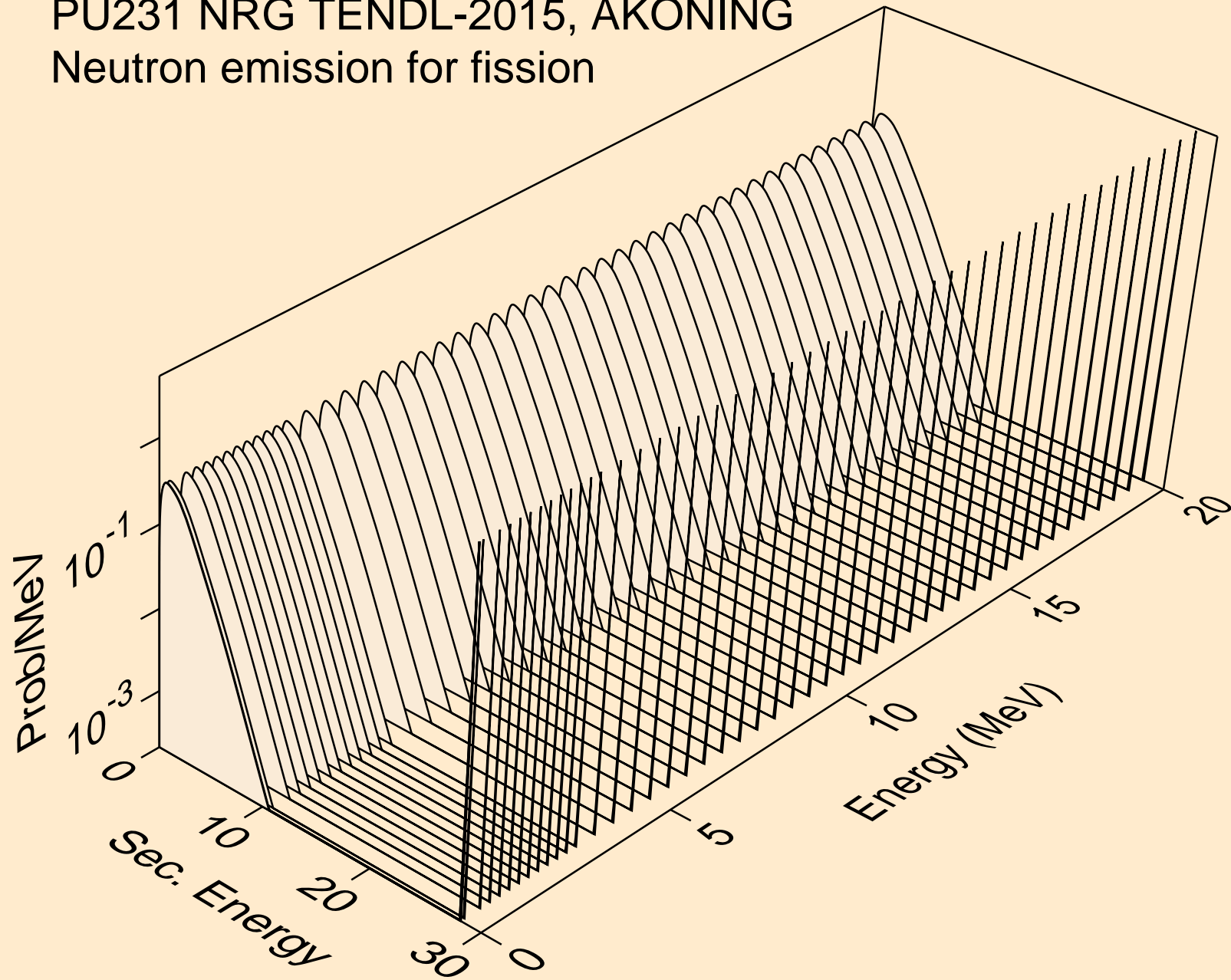
PU231 NRG TENDL-2015, AKONING  
Neutron emission for (n,2n)



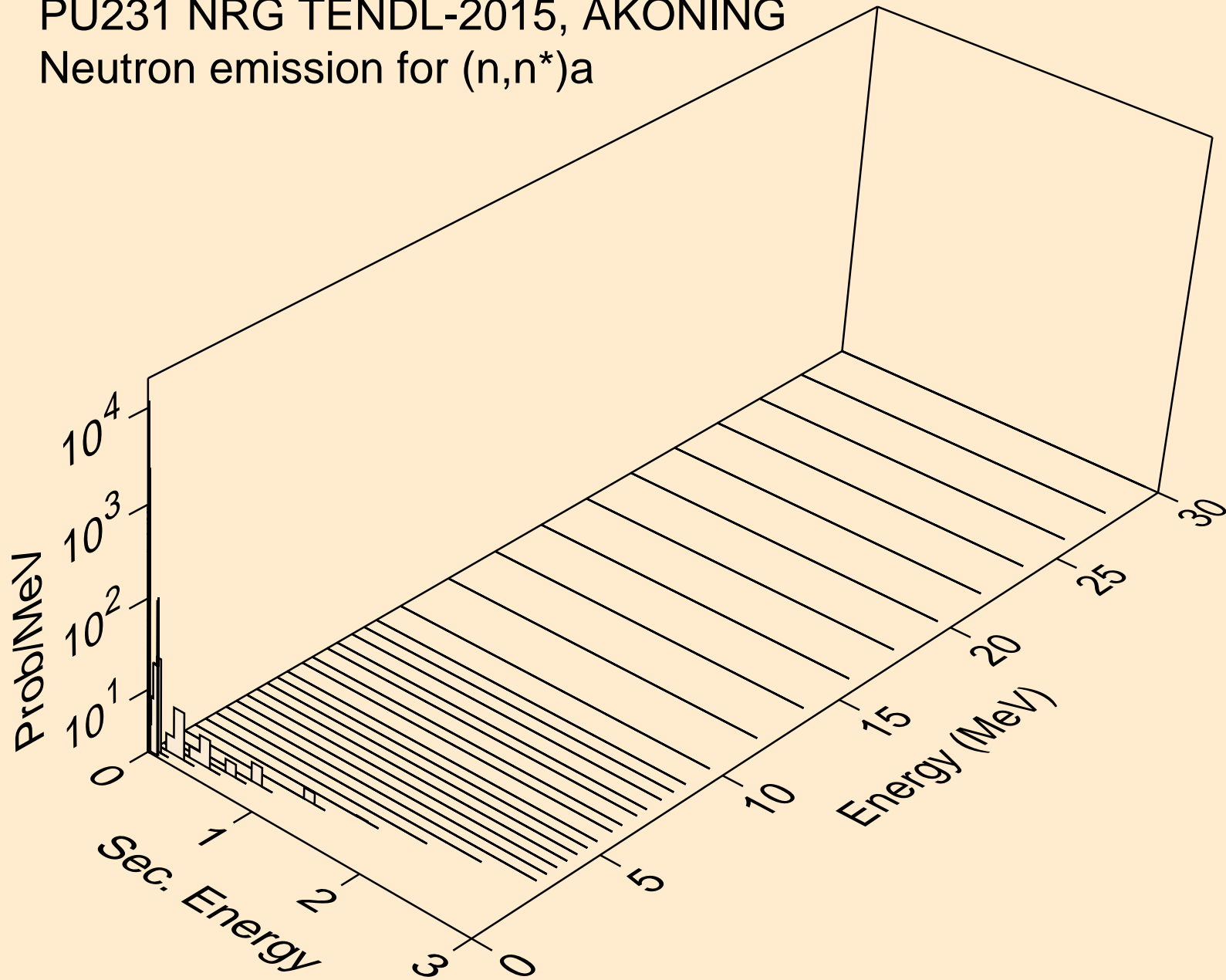
PU231 NRG TENDL-2015, AKONING  
Neutron emission for (n,3n)



PU231 NRG TENDL-2015, AKONING  
Neutron emission for fission

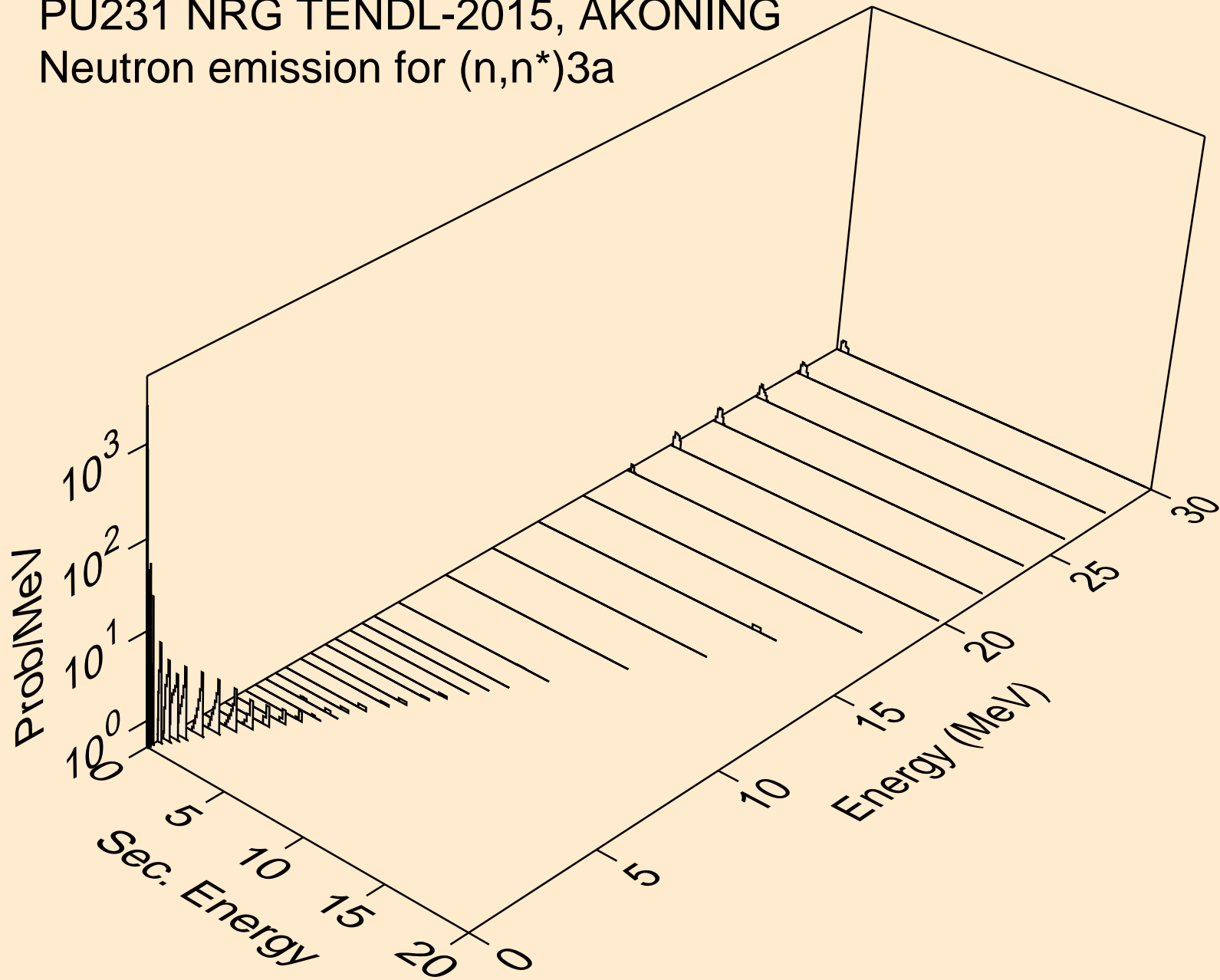


PU231 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)a

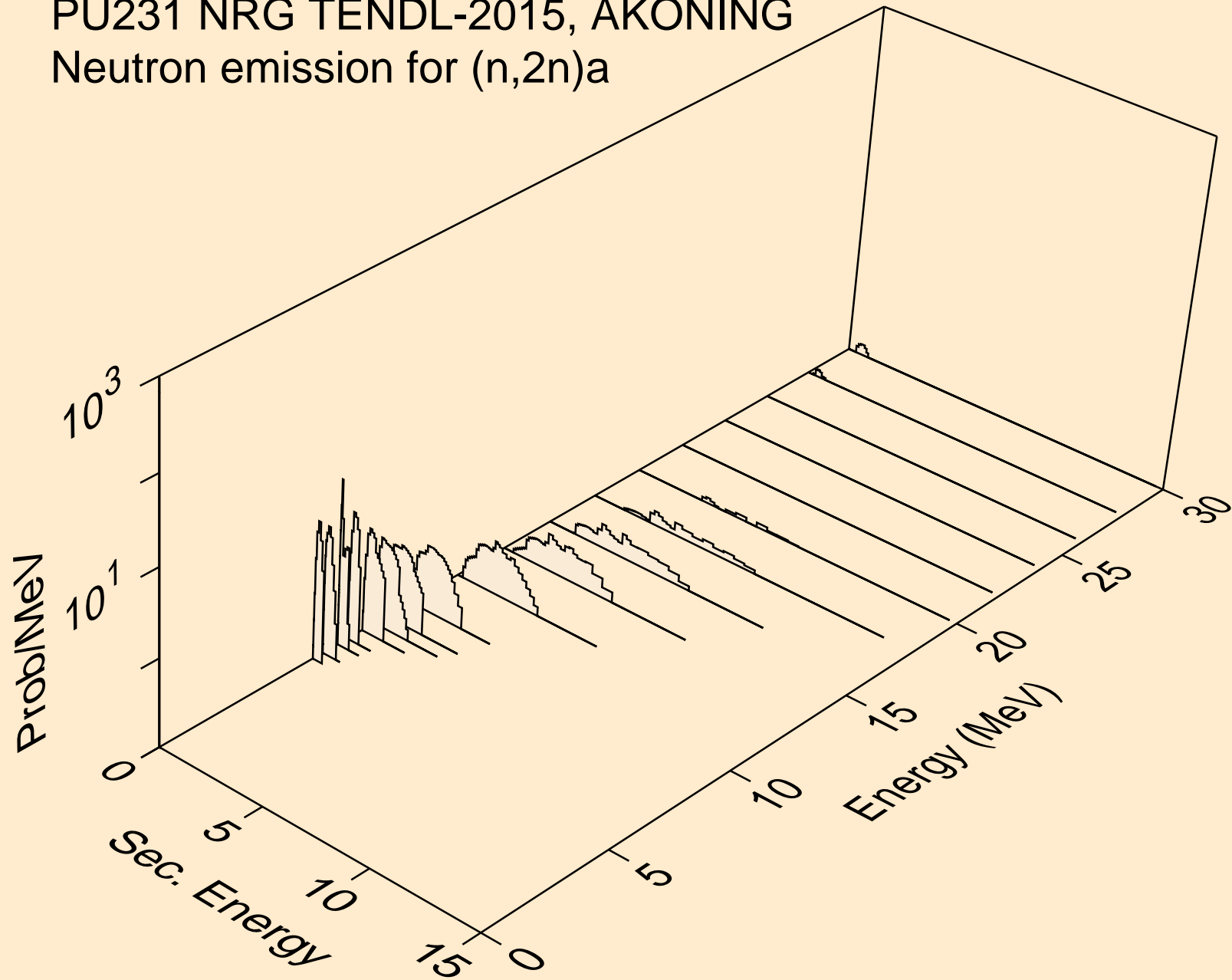




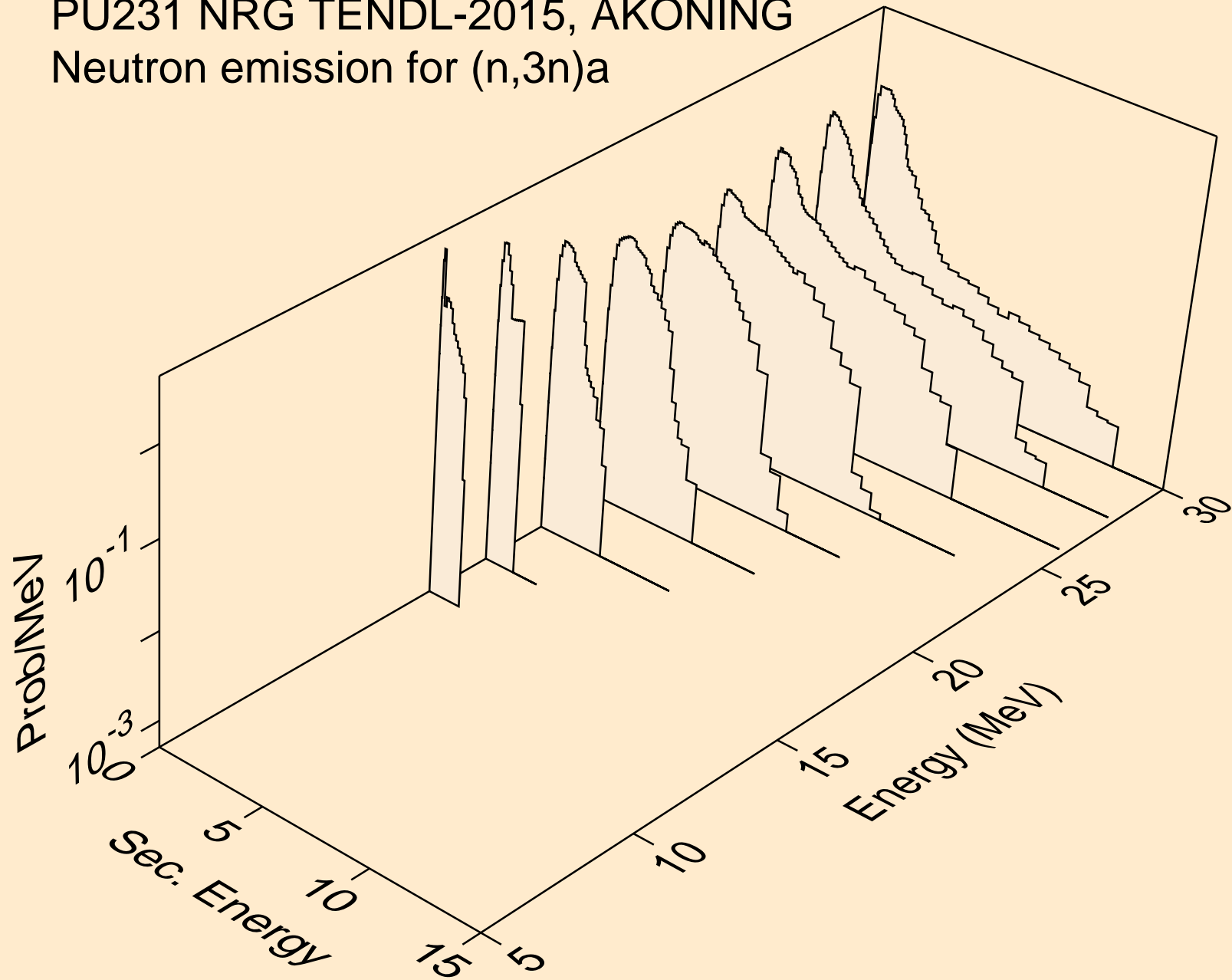
PU231 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)3a



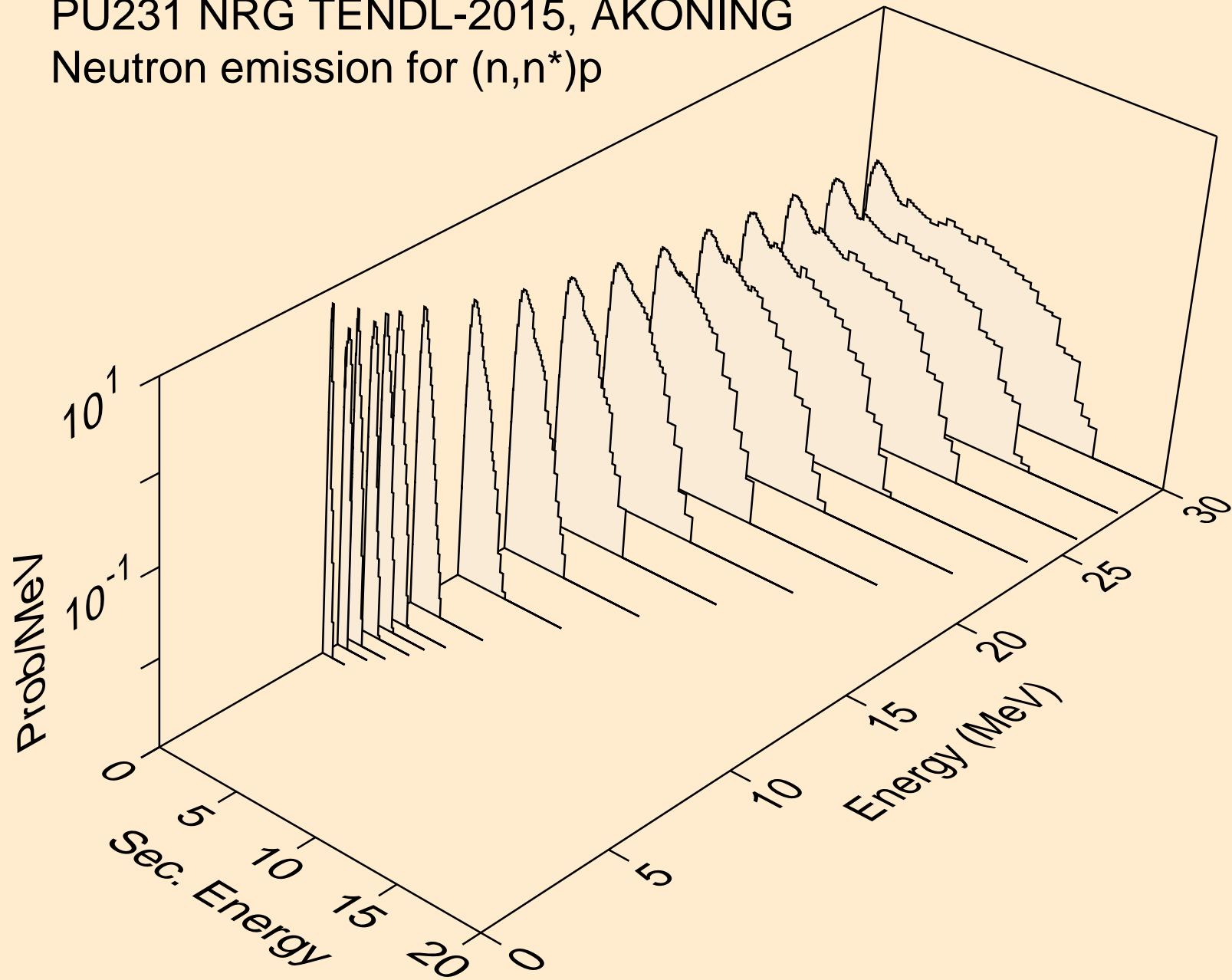
PU231 NRG TENDL-2015, AKONING  
Neutron emission for (n,2n)a



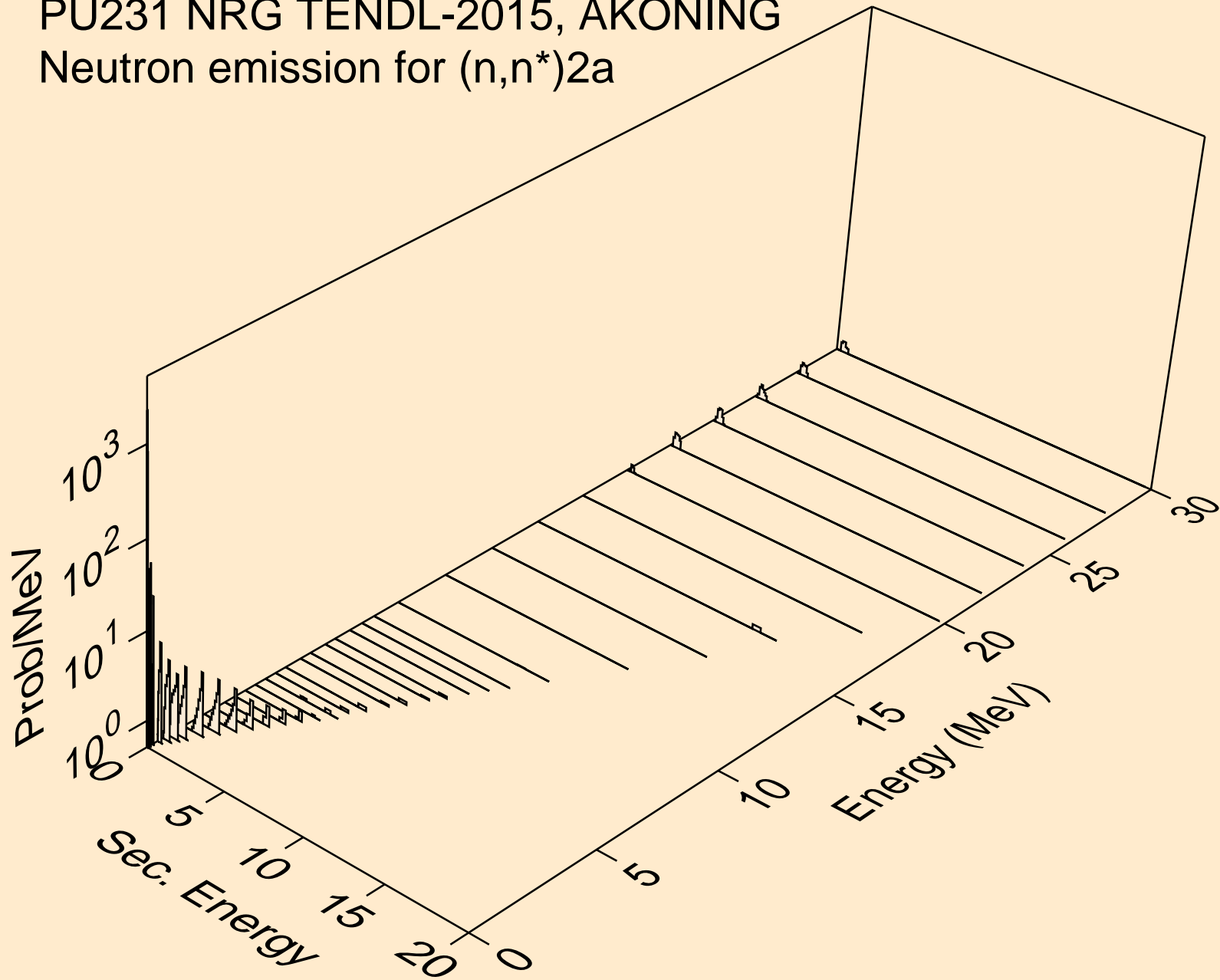
PU231 NRG TENDL-2015, AKONING  
Neutron emission for (n,3n)a



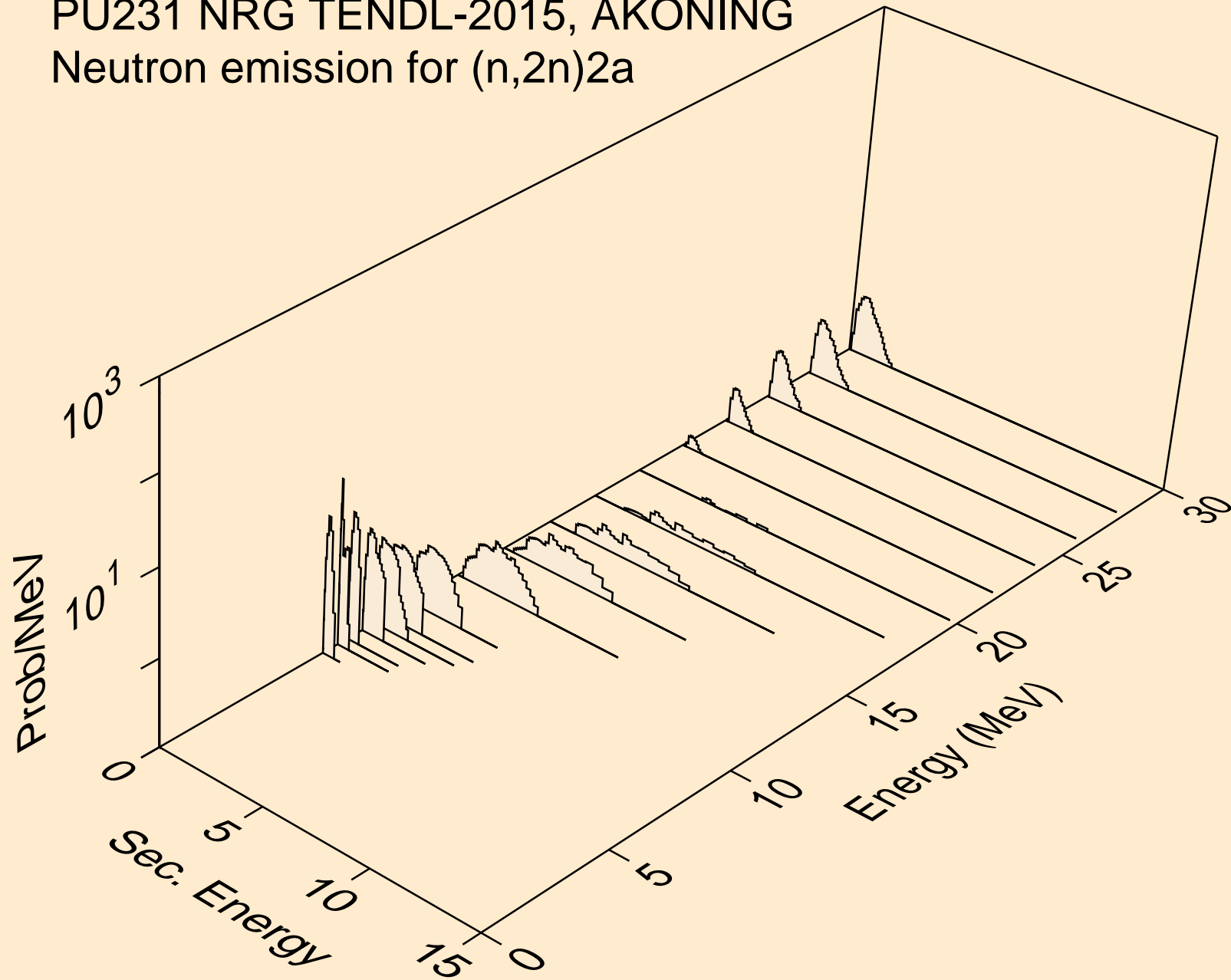
PU231 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)p



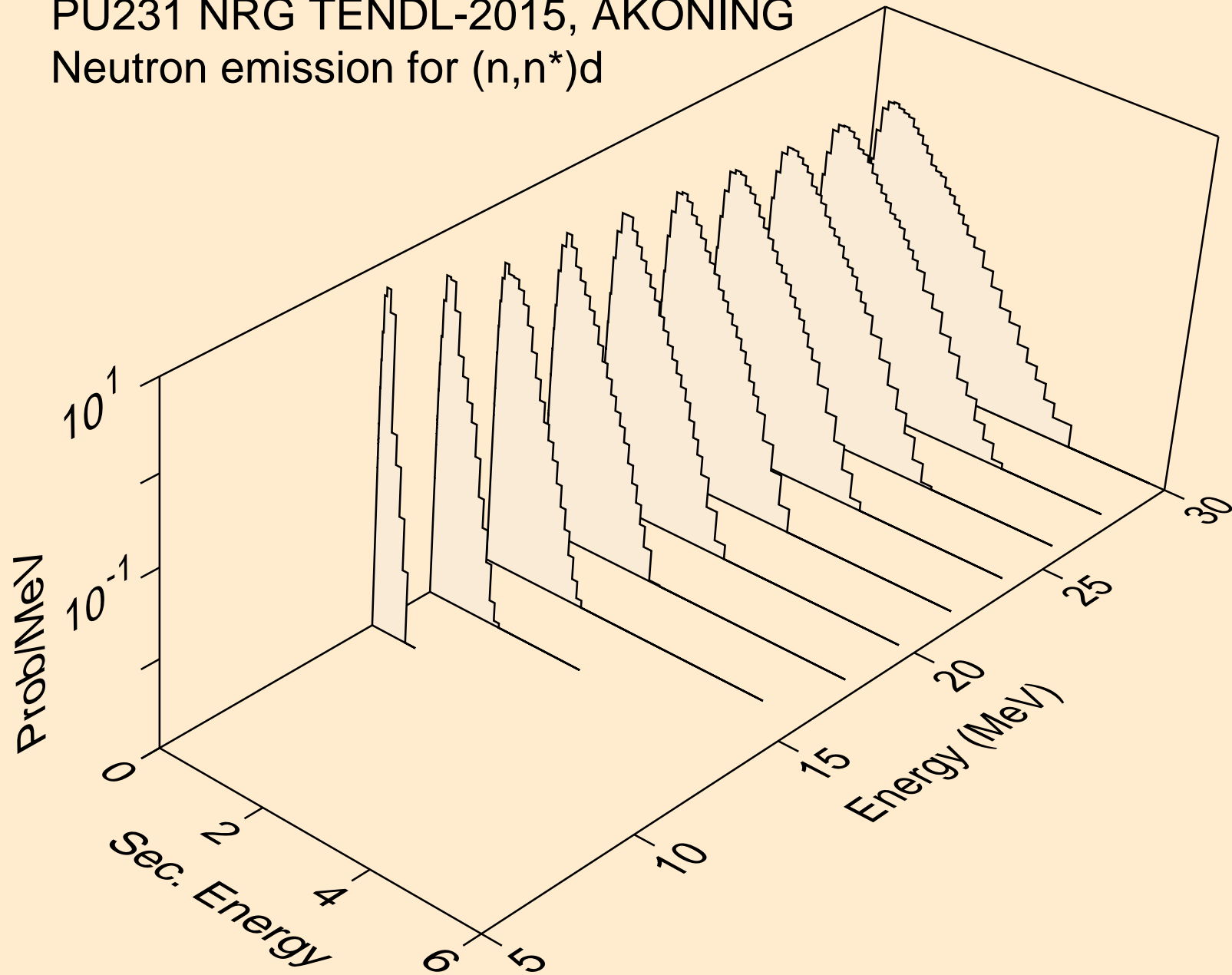
PU231 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)2a



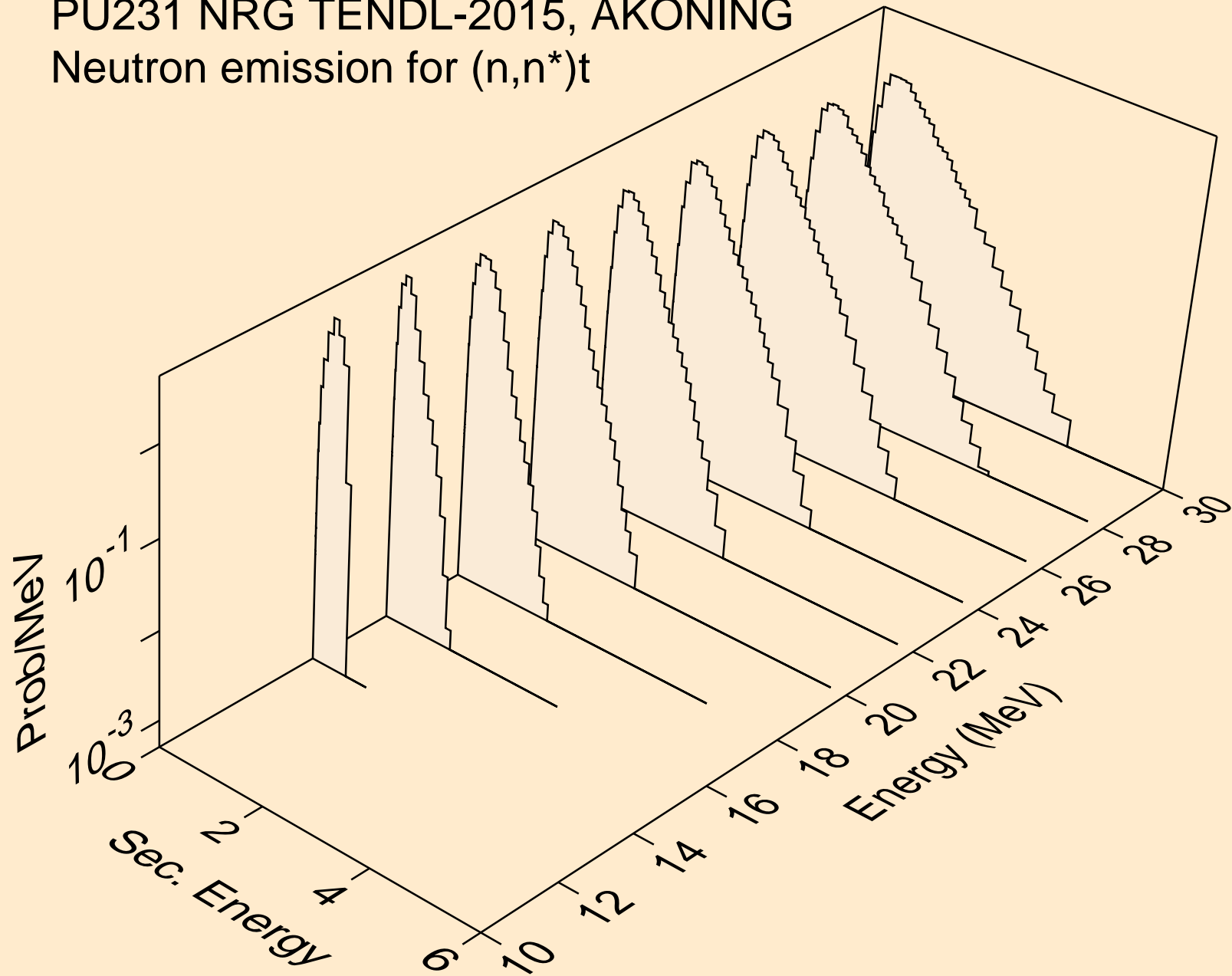
PU231 NRG TENDL-2015, AKONING  
Neutron emission for (n,2n)2a



PU231 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)d

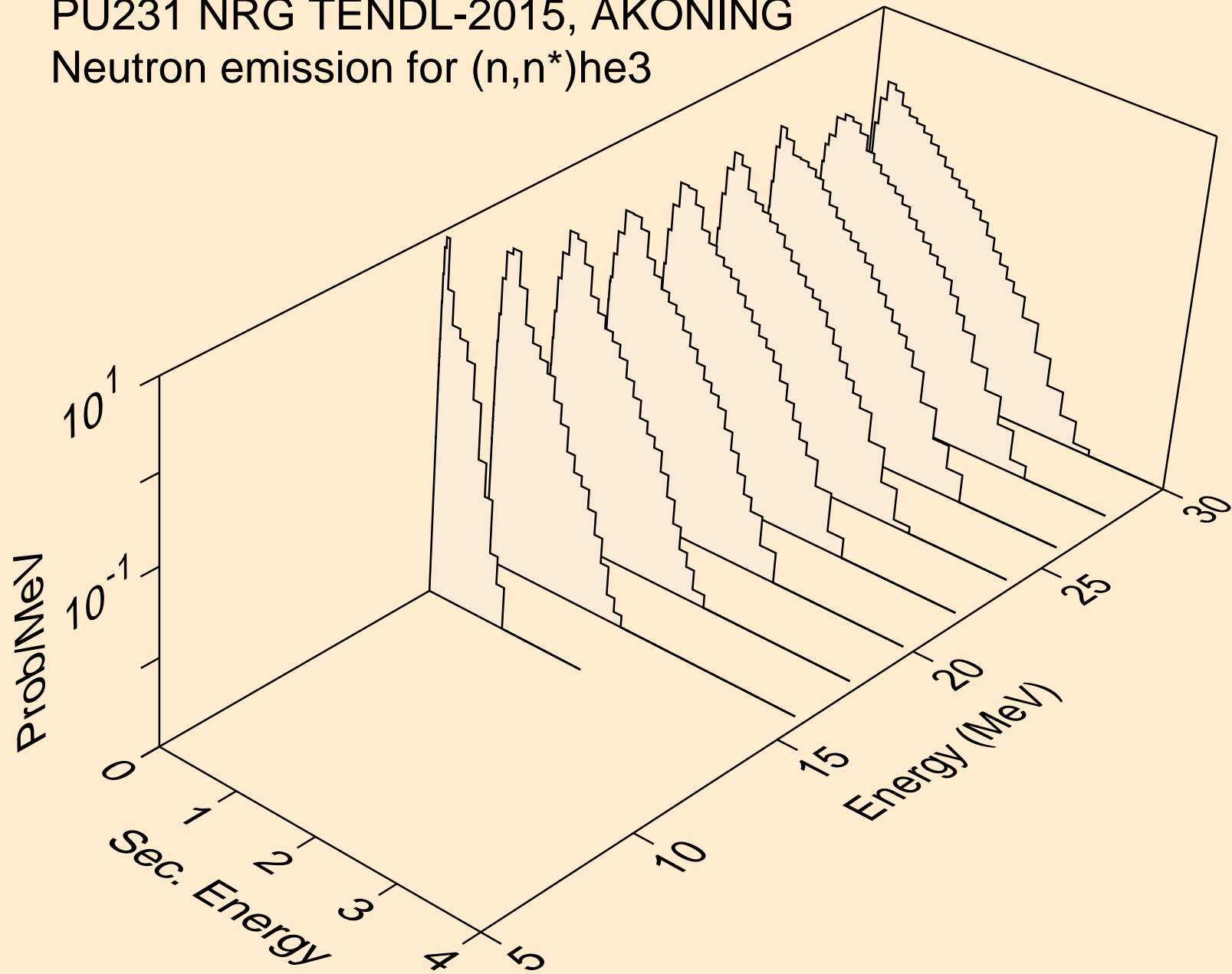


PU231 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)t

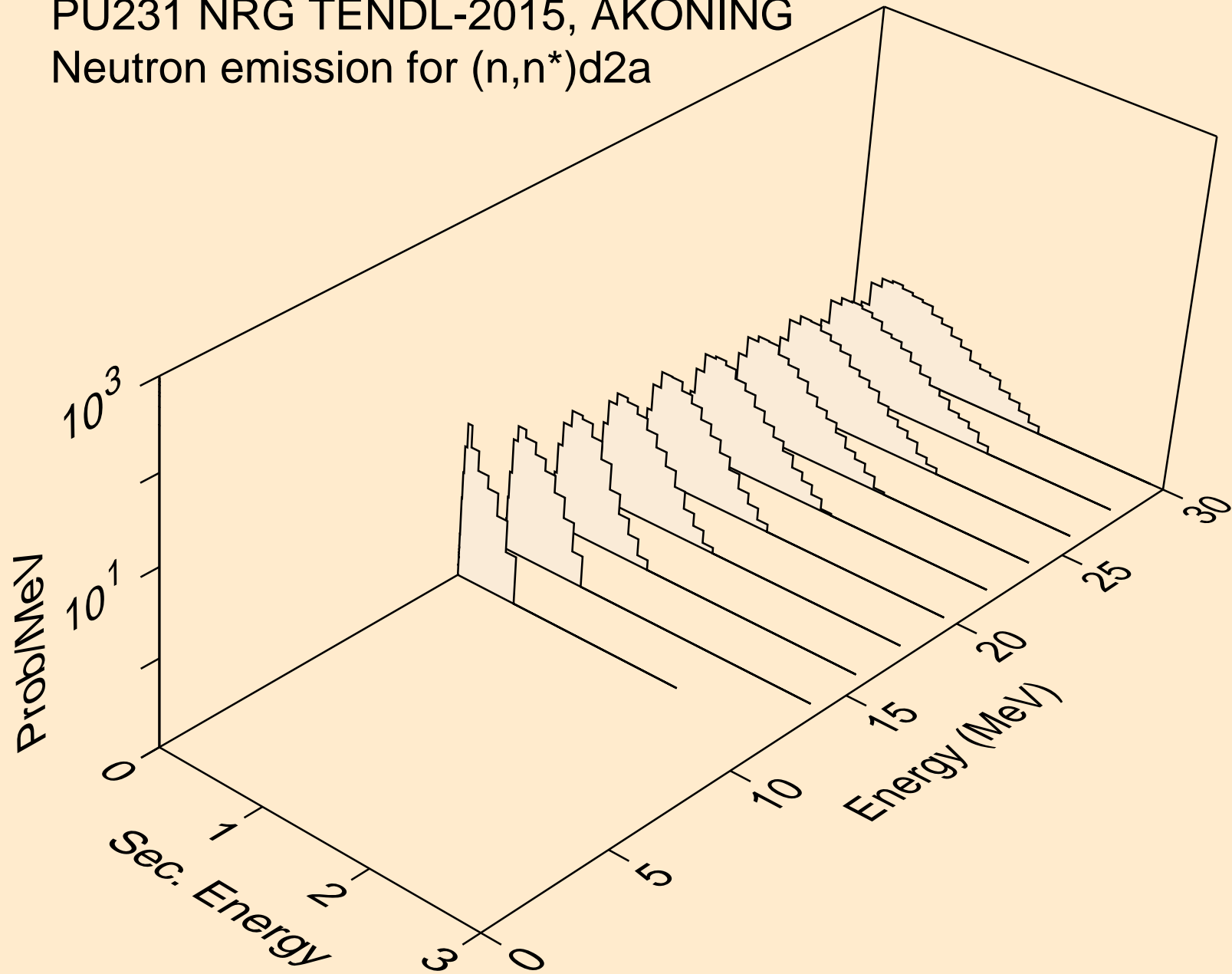




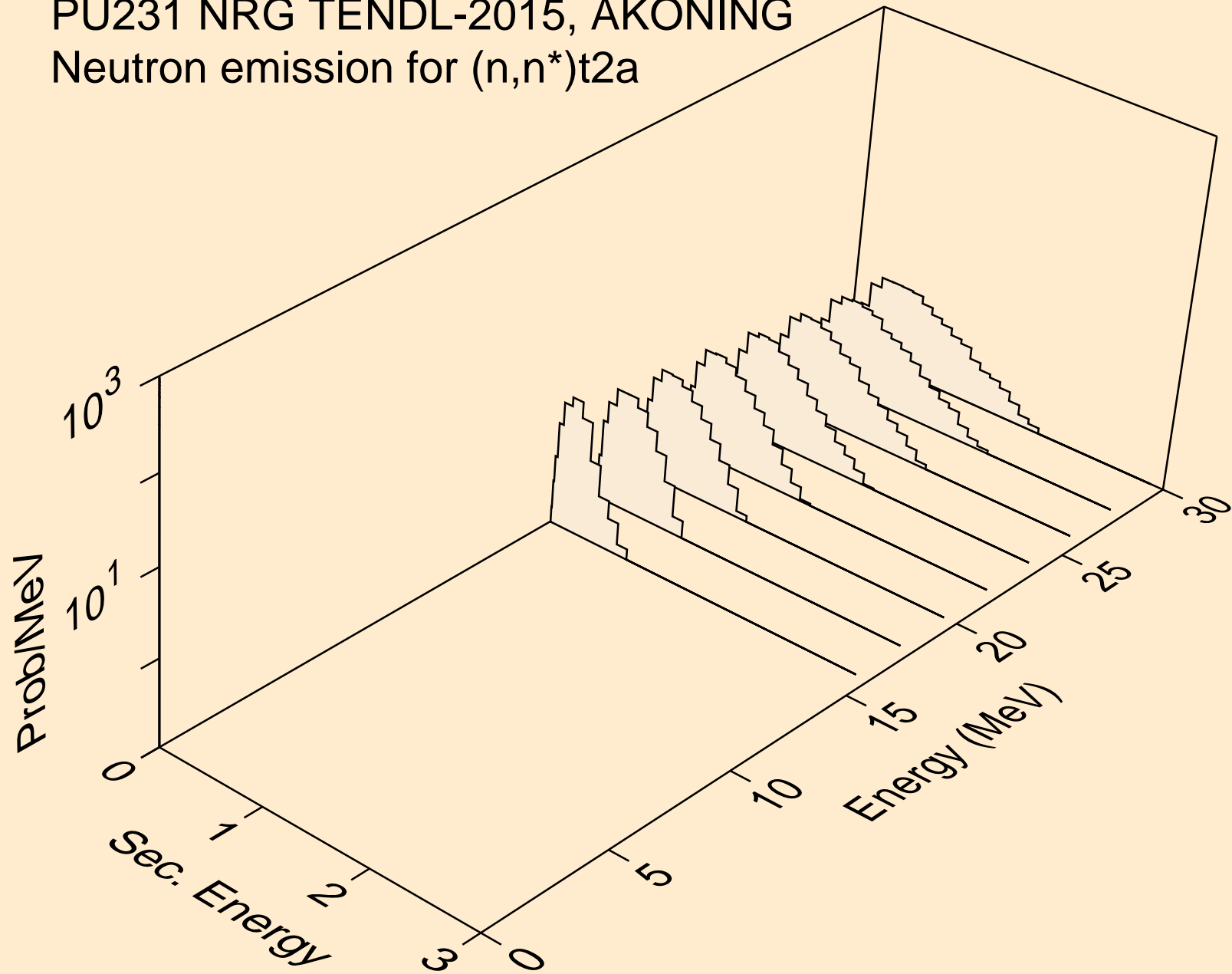
PU231 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)he3



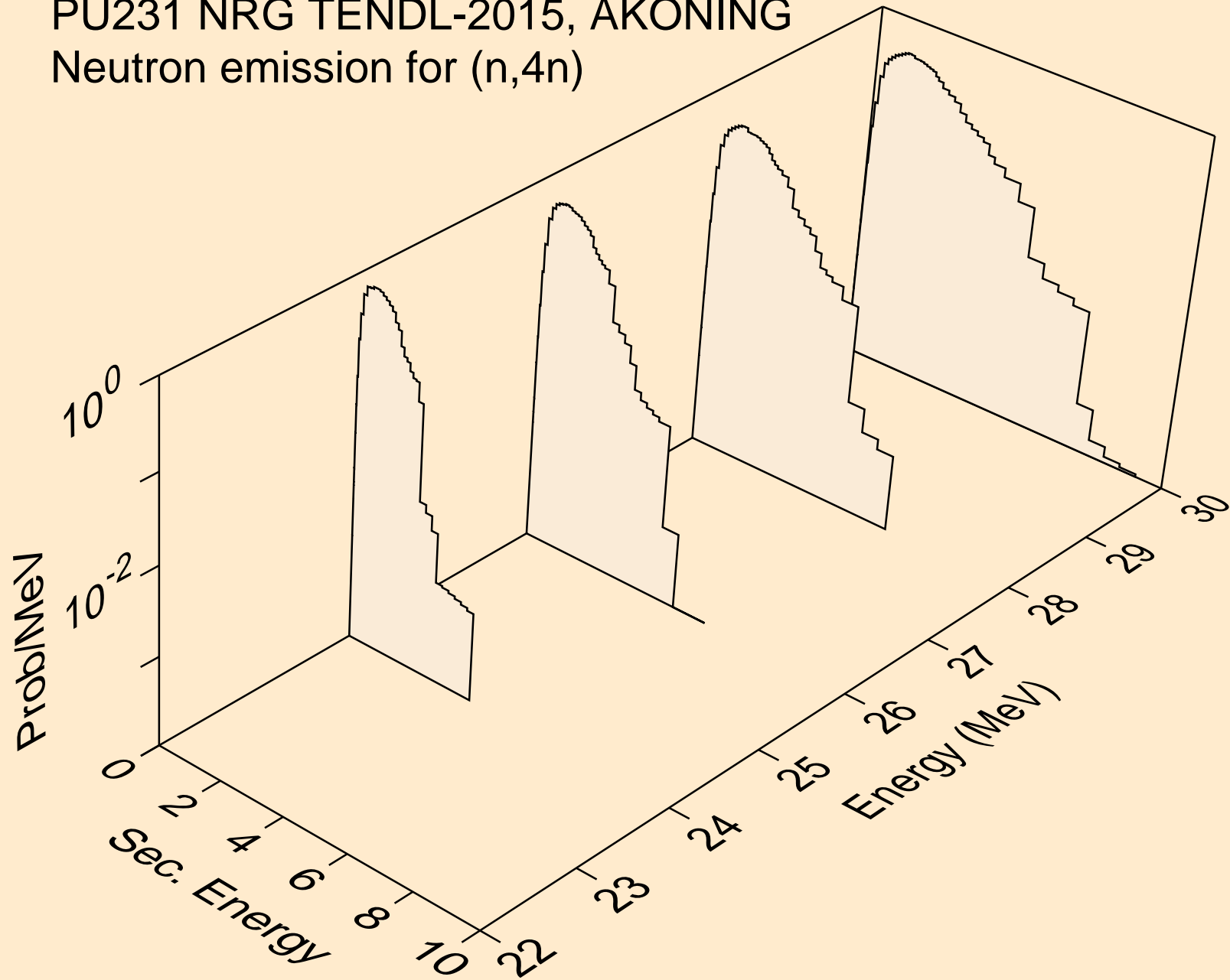
PU231 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)d2a



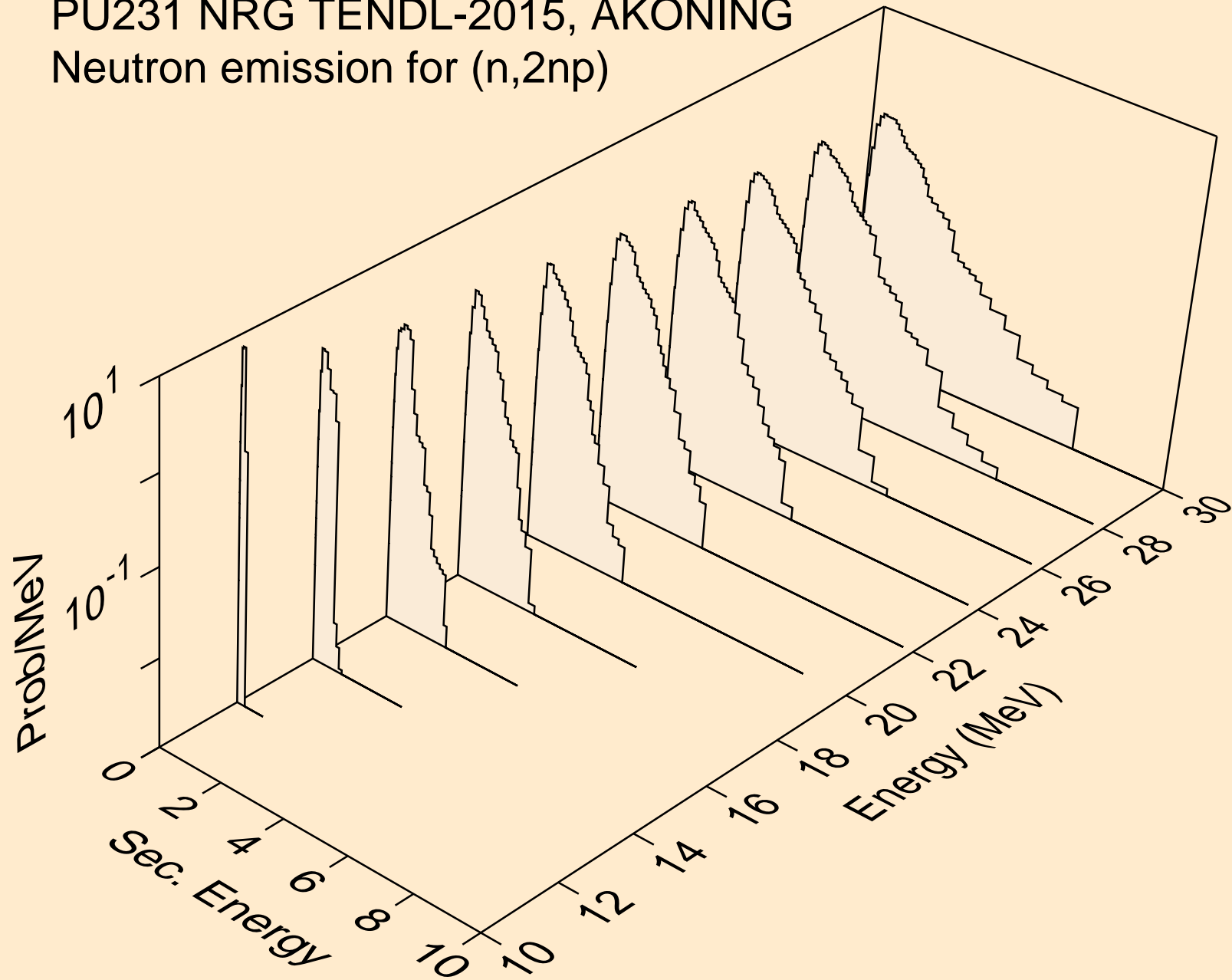
PU231 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)t2a



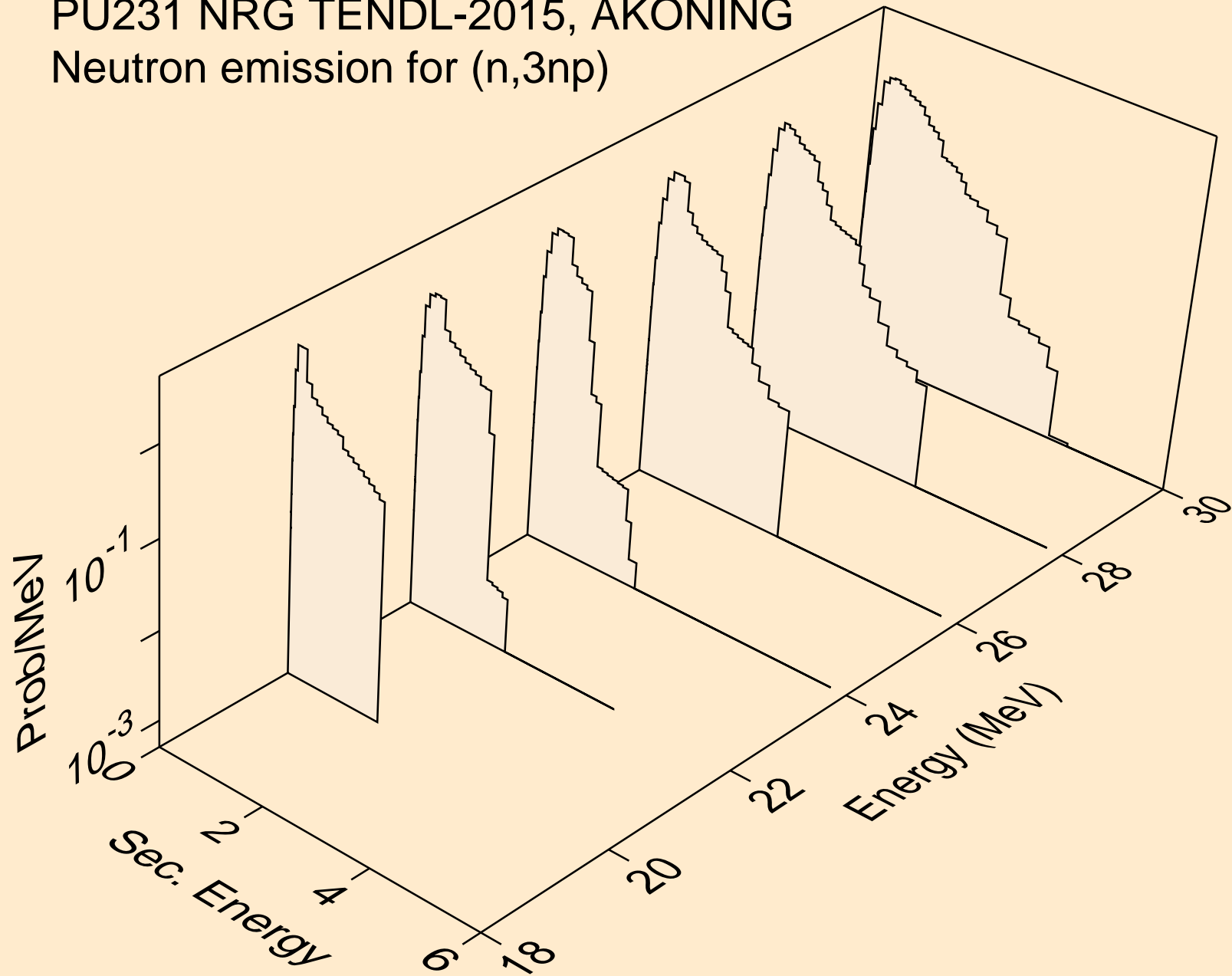
PU231 NRG TENDL-2015, AKONING  
Neutron emission for (n,4n)



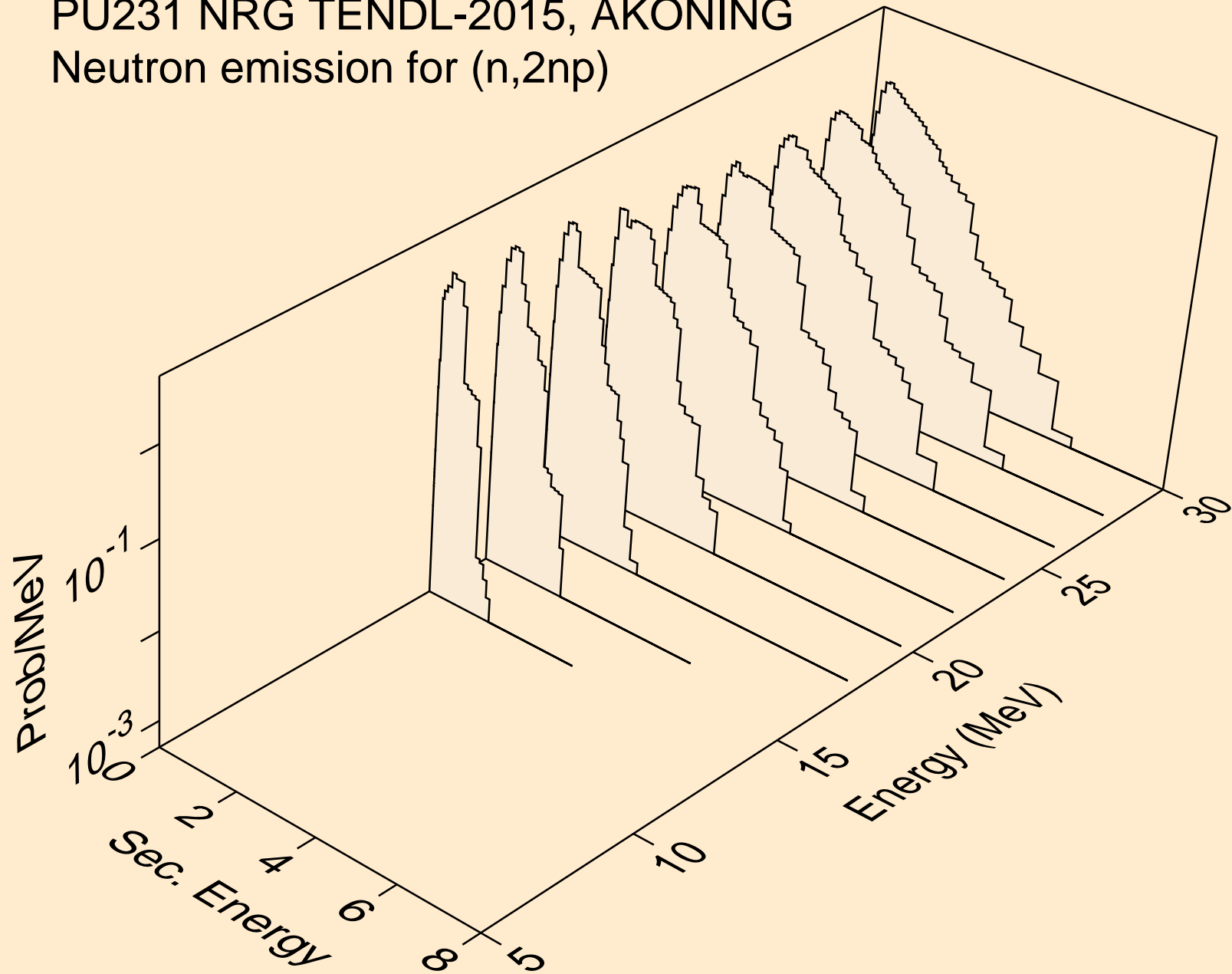
PU231 NRG TENDL-2015, AKONING  
Neutron emission for (n,2np)



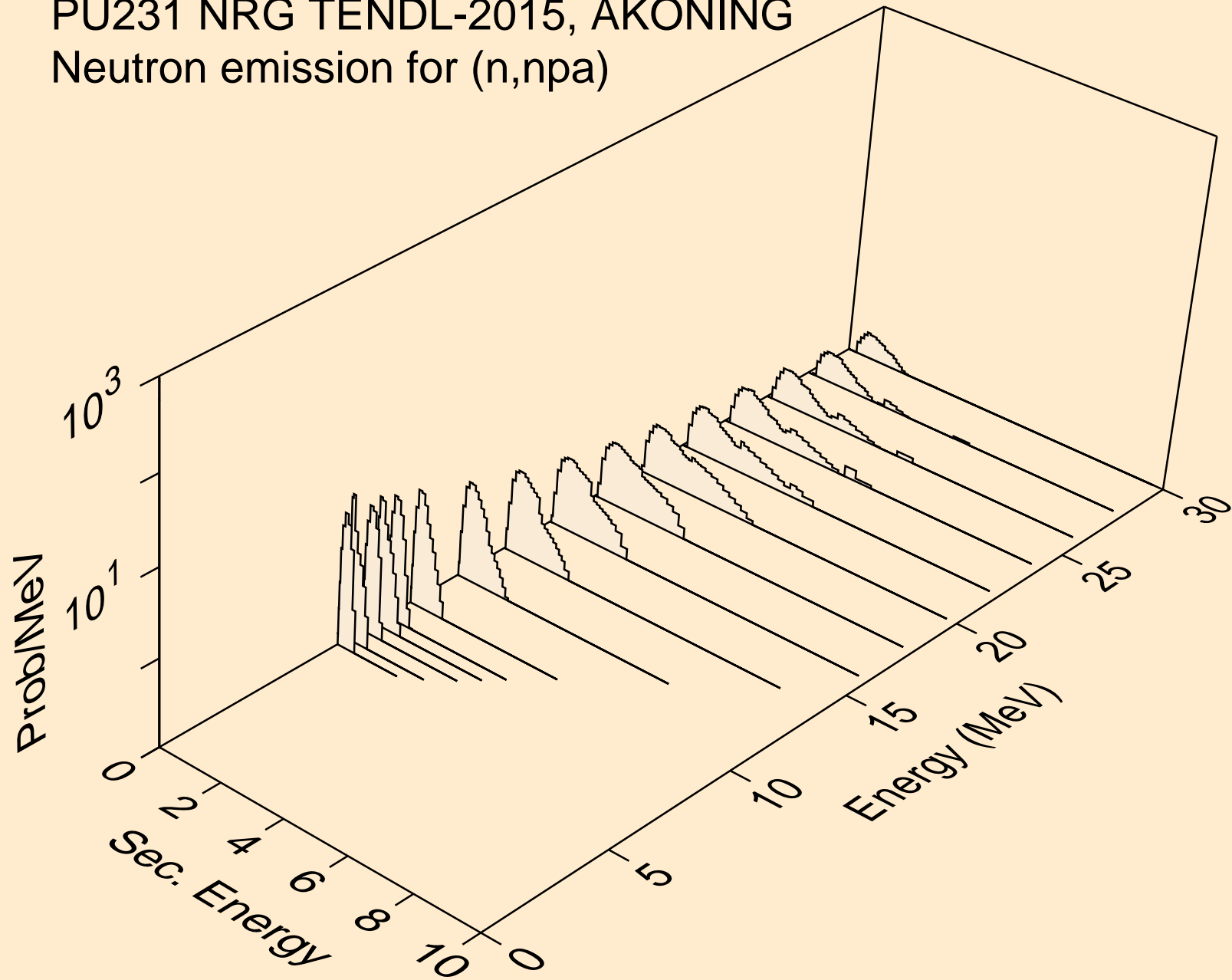
PU231 NRG TENDL-2015, AKONING  
Neutron emission for (n,3np)



PU231 NRG TENDL-2015, AKONING  
Neutron emission for (n,2np)

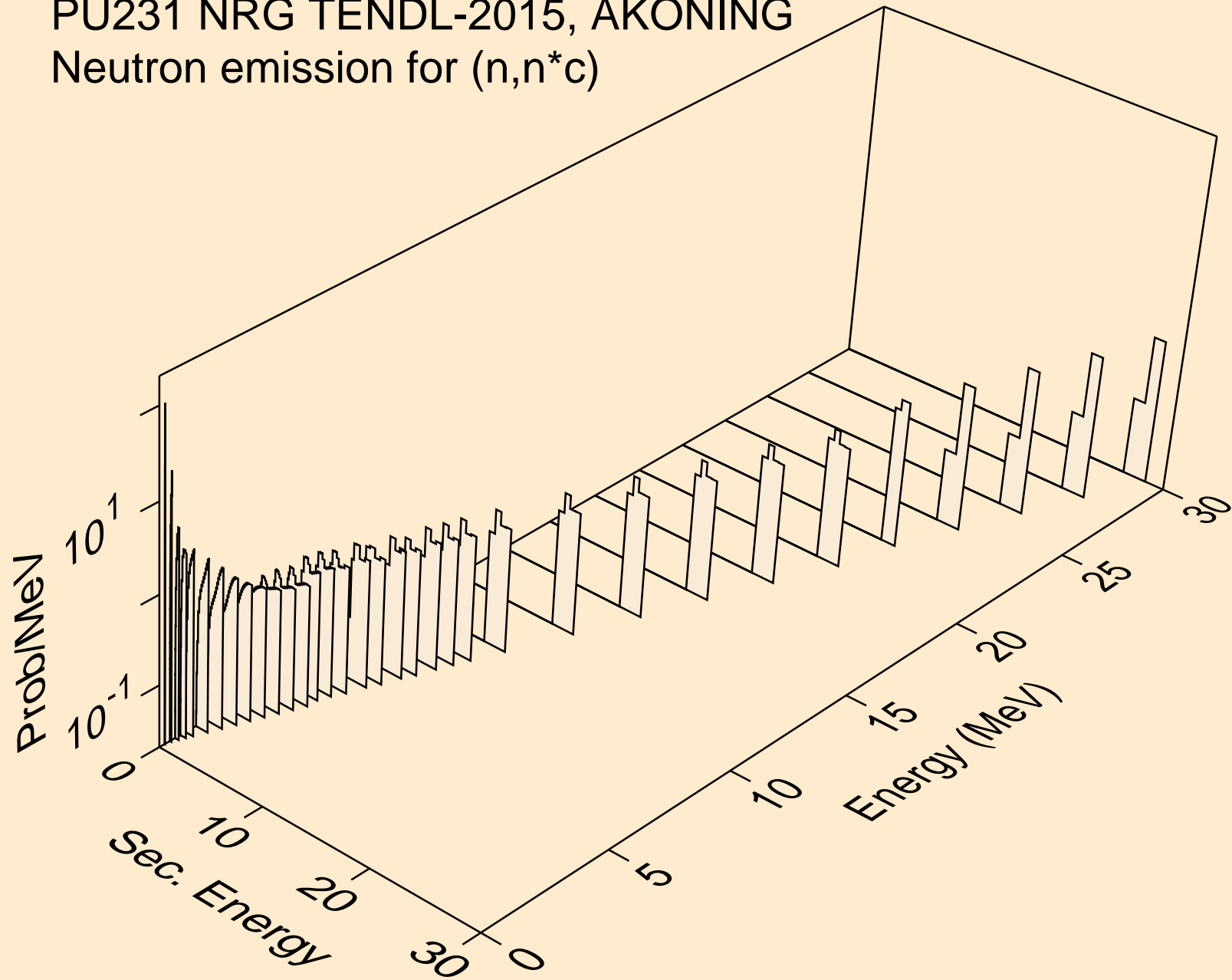


PU231 NRG TENDL-2015, AKONING  
Neutron emission for (n,npa)



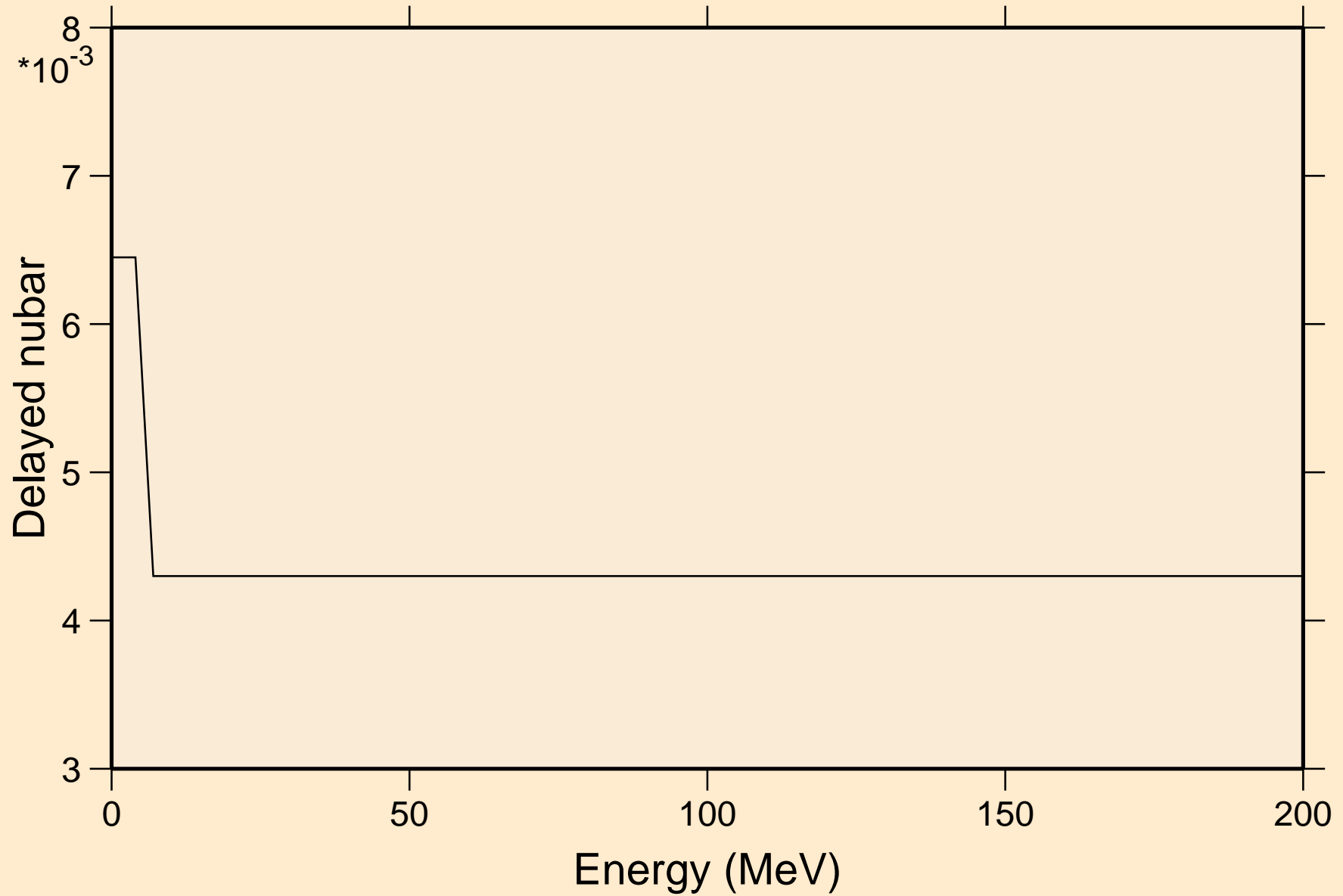


PU231 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*c)



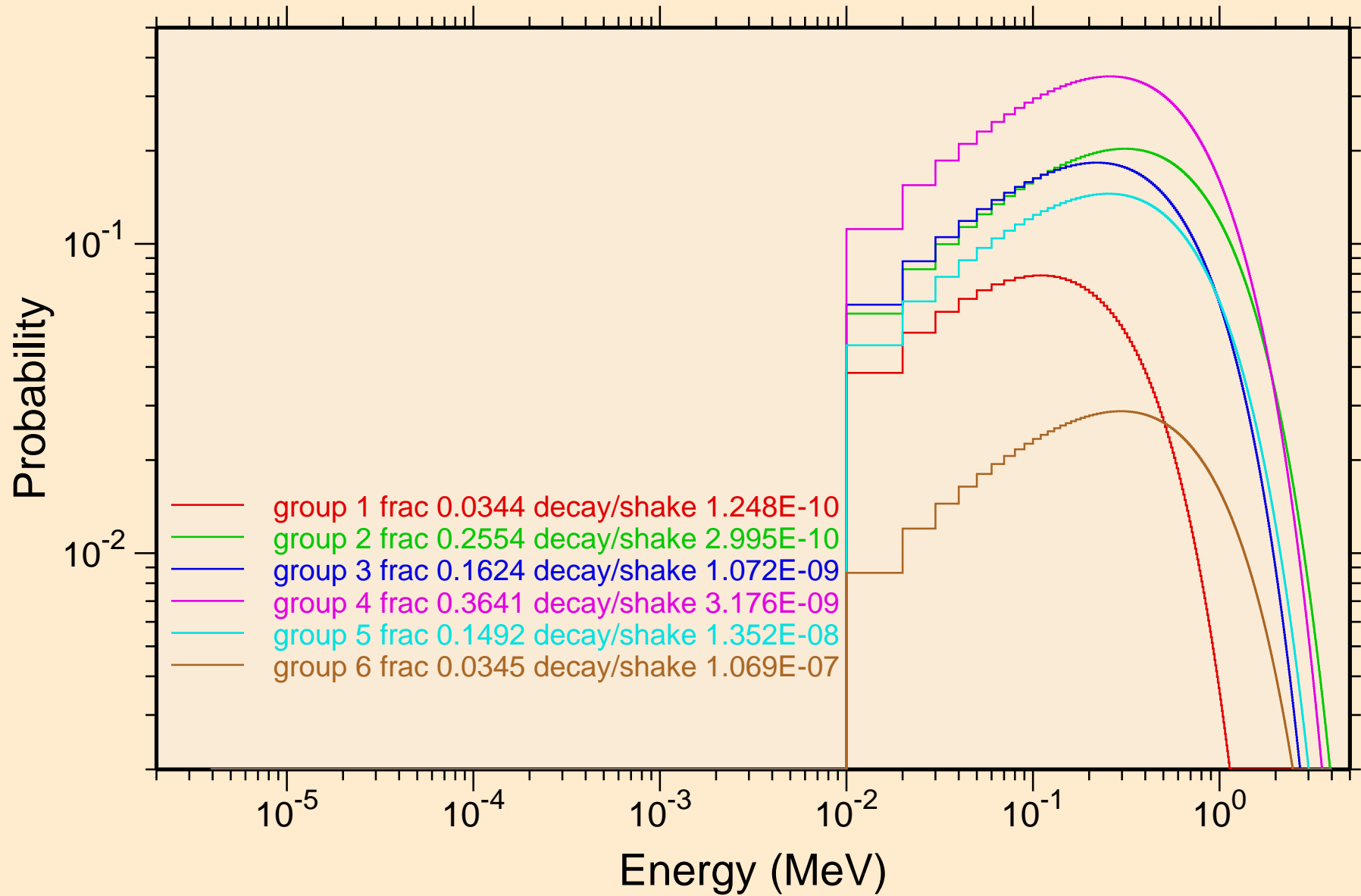
# PU231 NRG TENDL-2015, AKONING

## Delayed nubar

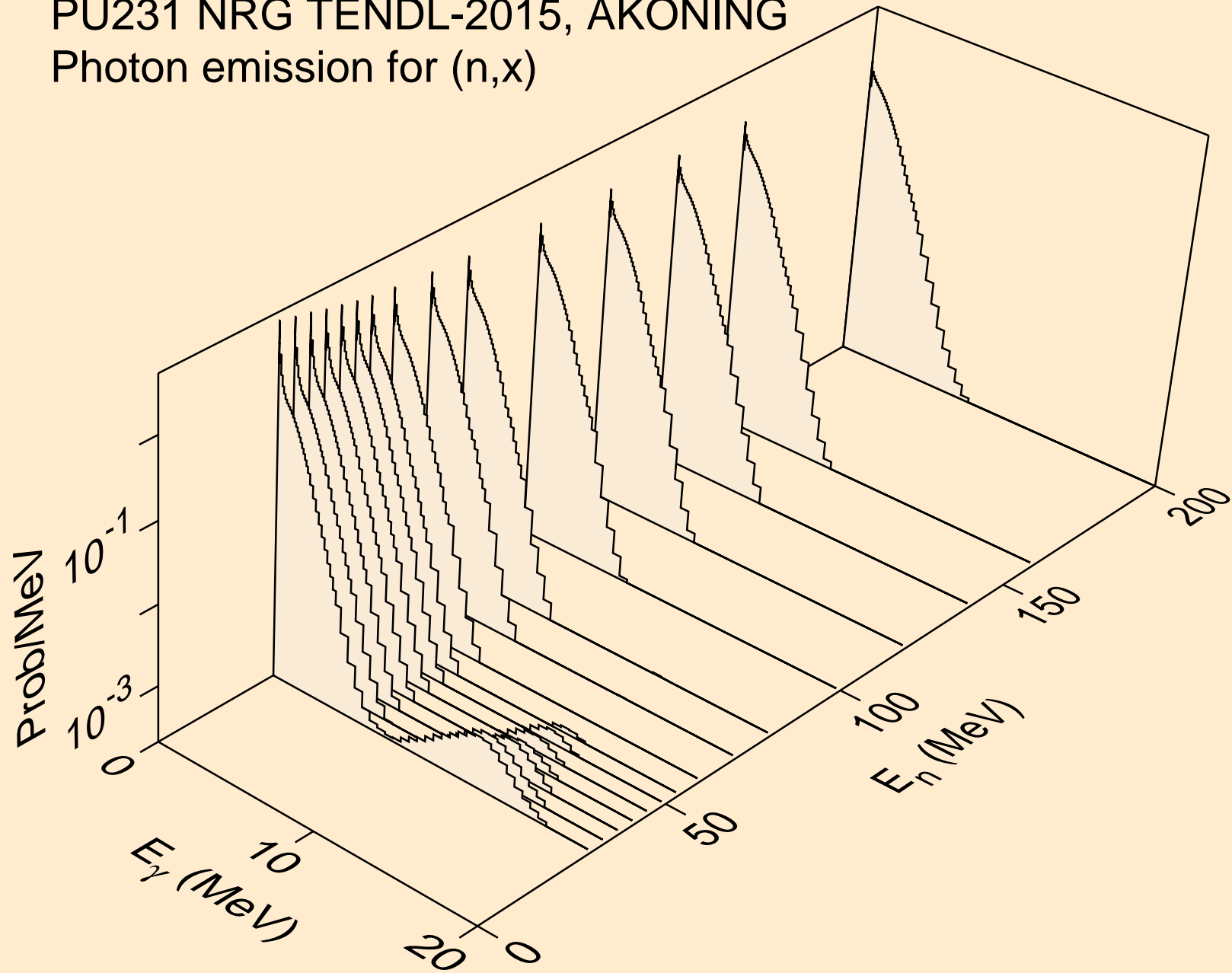


# PU231 NRG TENDL-2015, AKONING

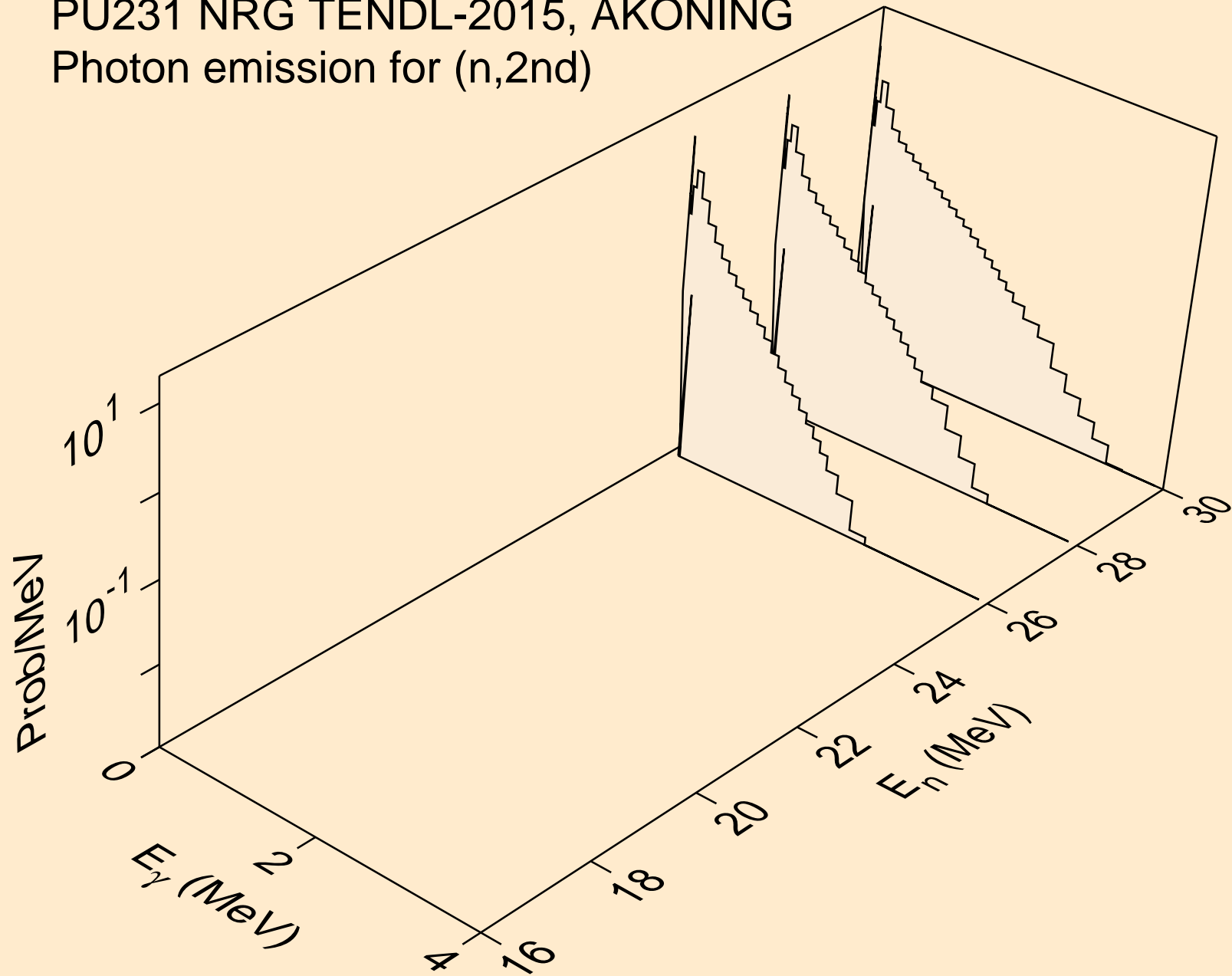
## Delayed neutron spectra



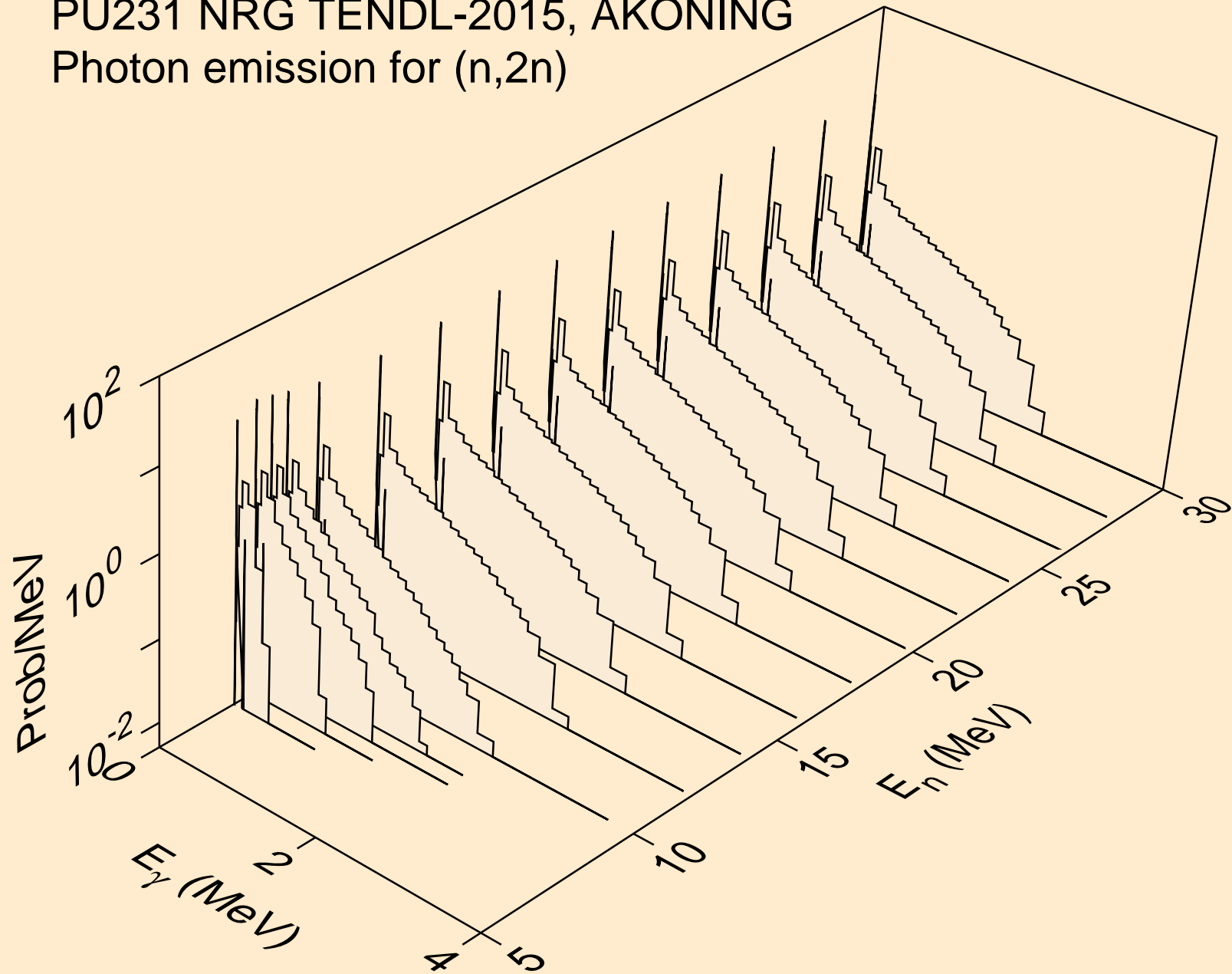
PU231 NRG TENDL-2015, AKONING  
Photon emission for (n,x)



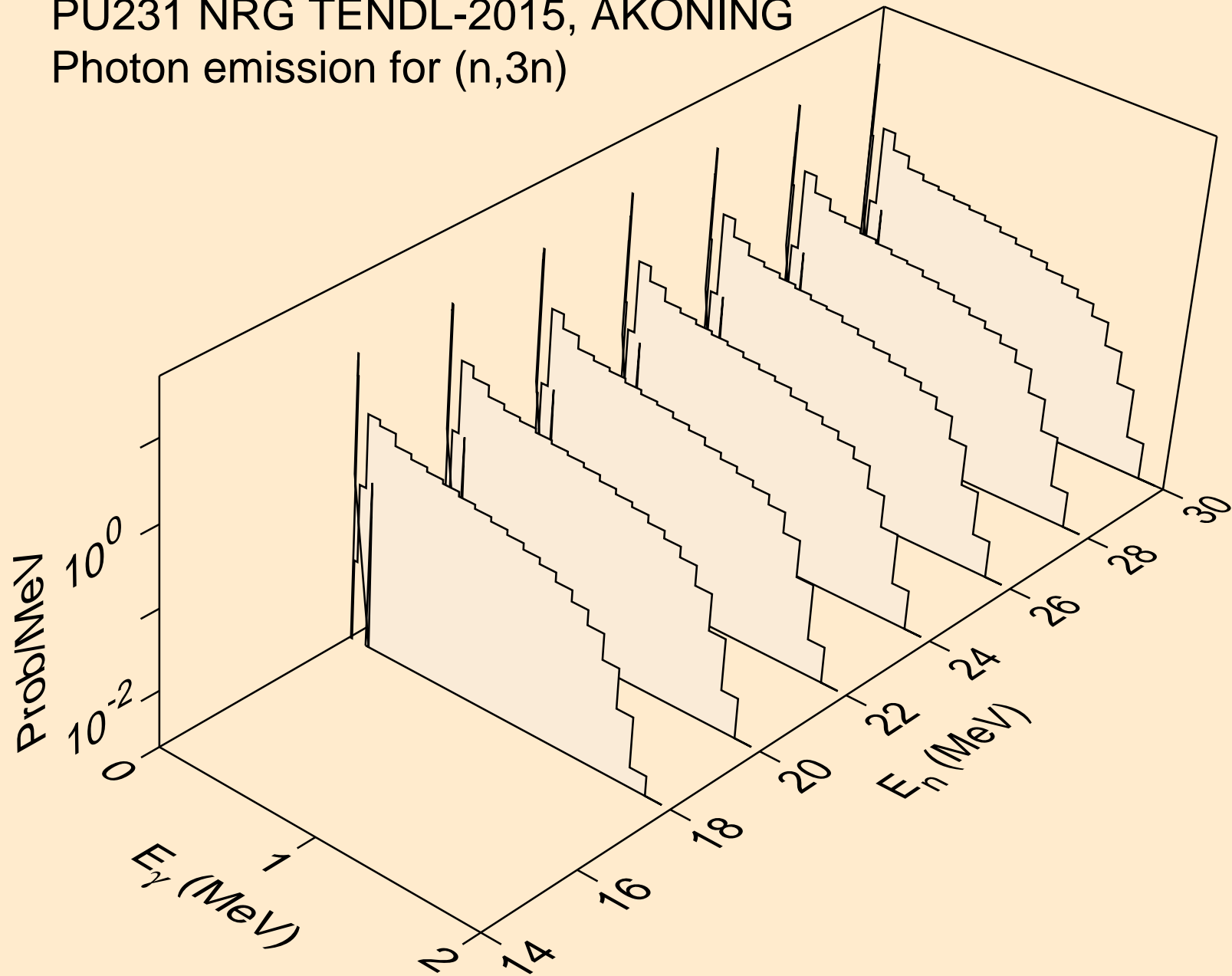
PU231 NRG TENDL-2015, AKONING  
Photon emission for (n,2nd)



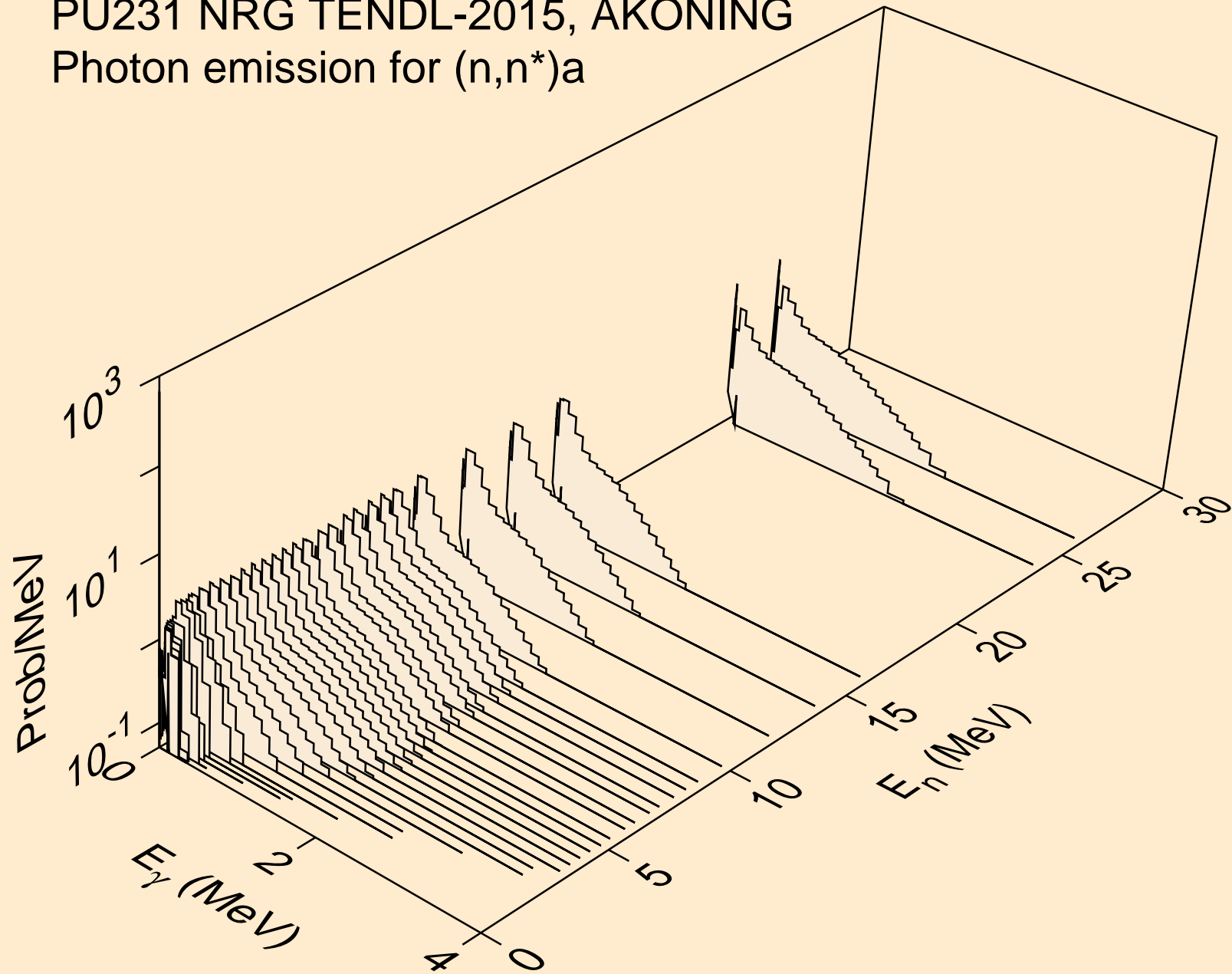
PU231 NRG TENDL-2015, AKONING  
Photon emission for (n,2n)



PU231 NRG TENDL-2015, AKONING  
Photon emission for (n,3n)

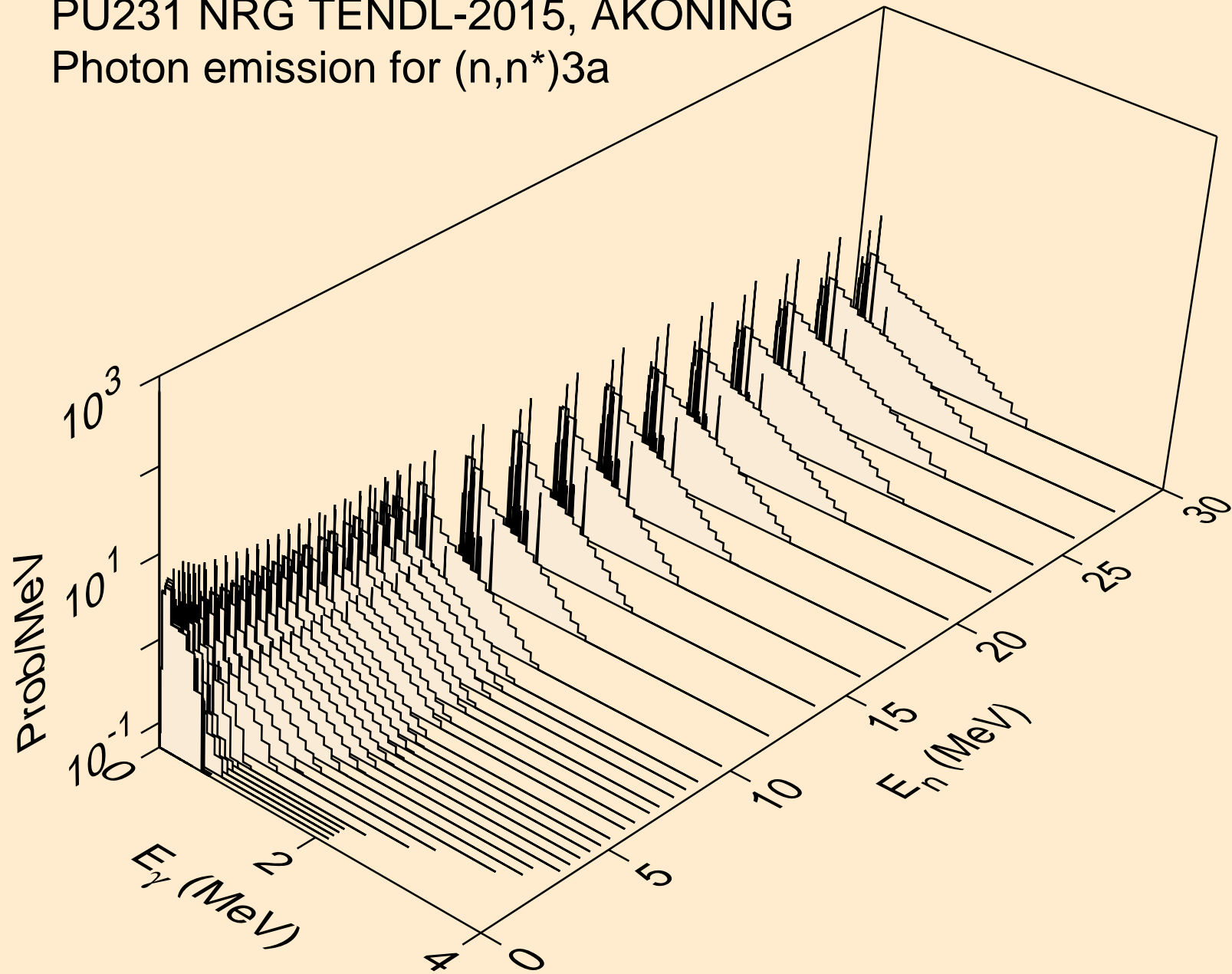


PU231 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)a

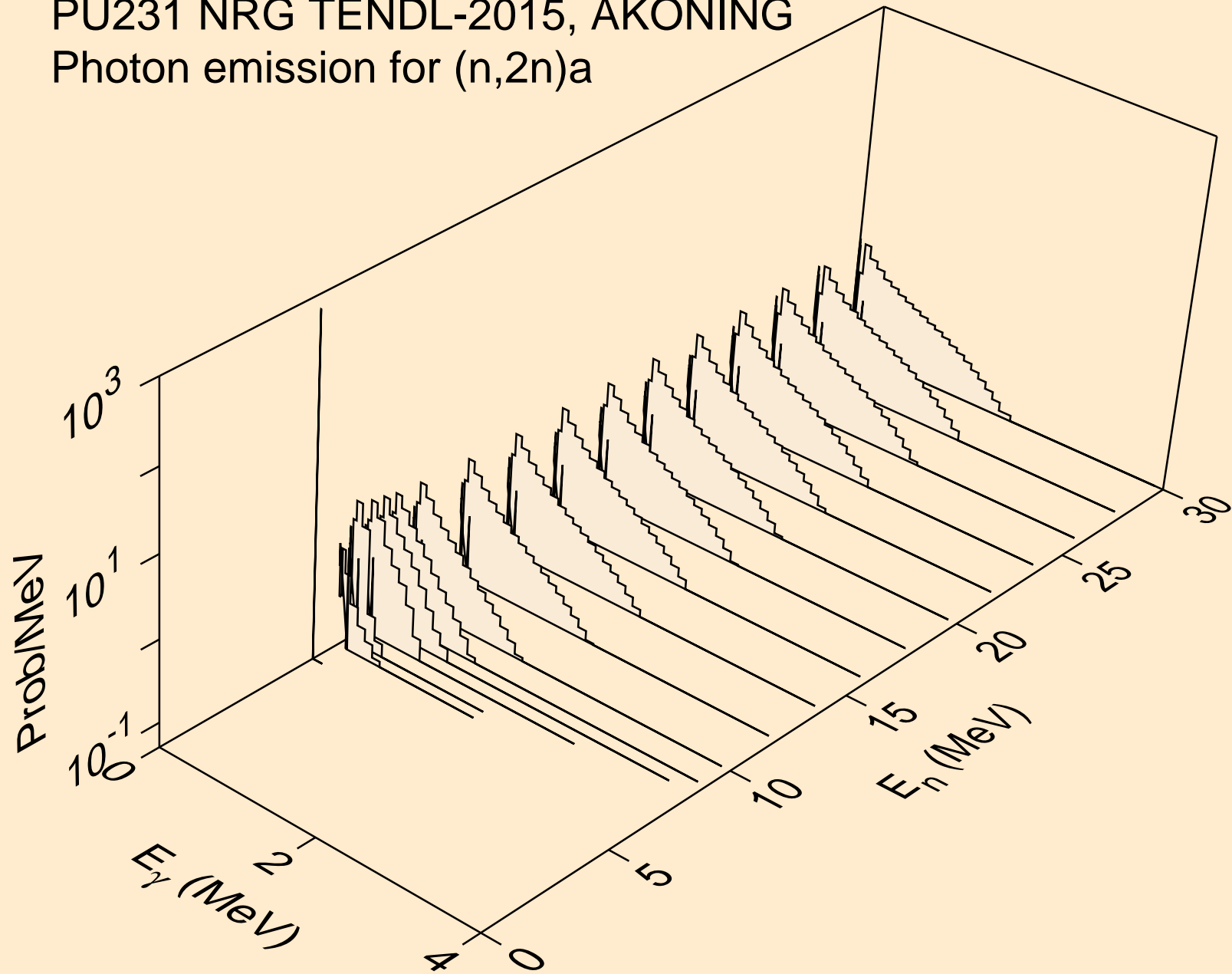




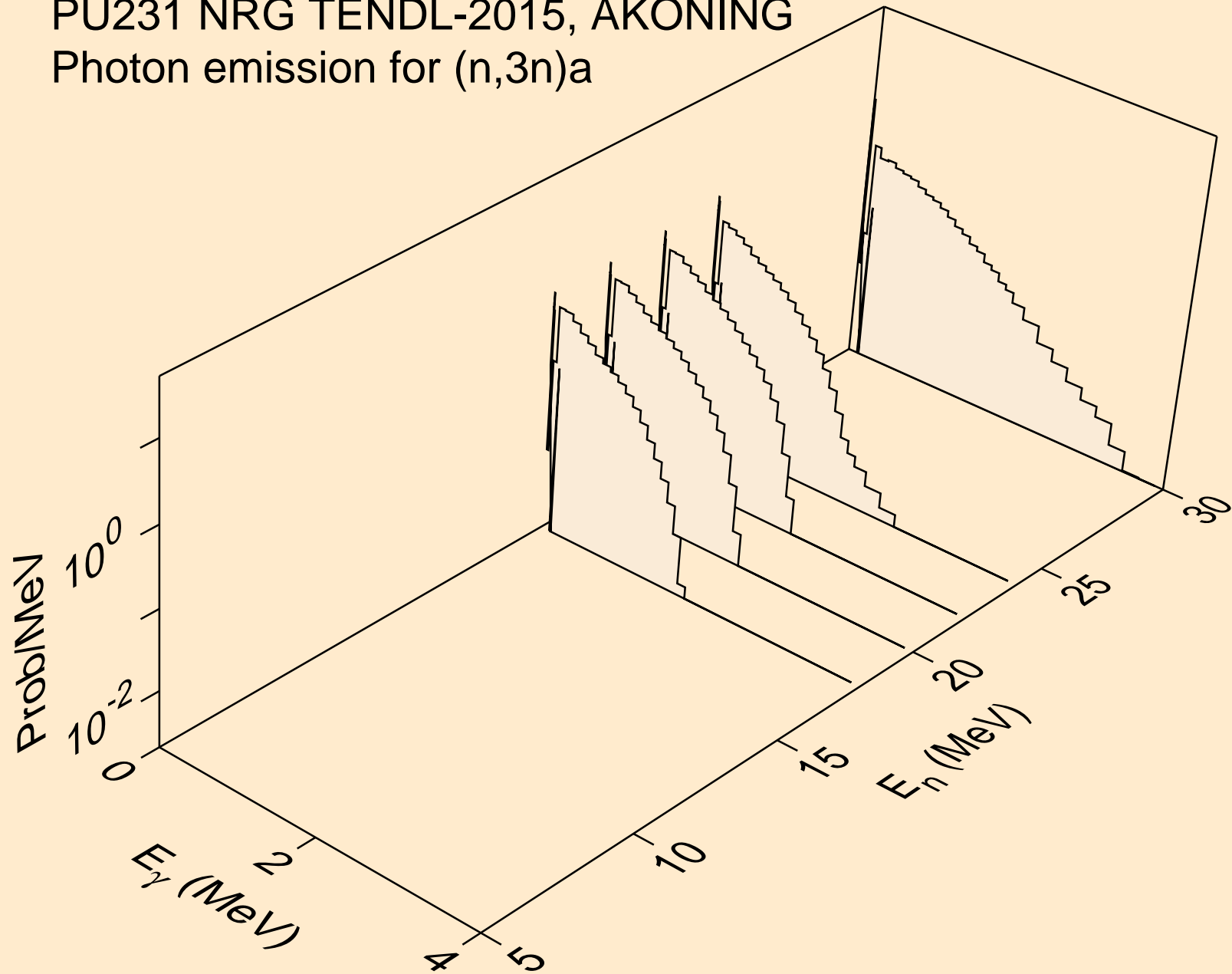
PU231 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)3a



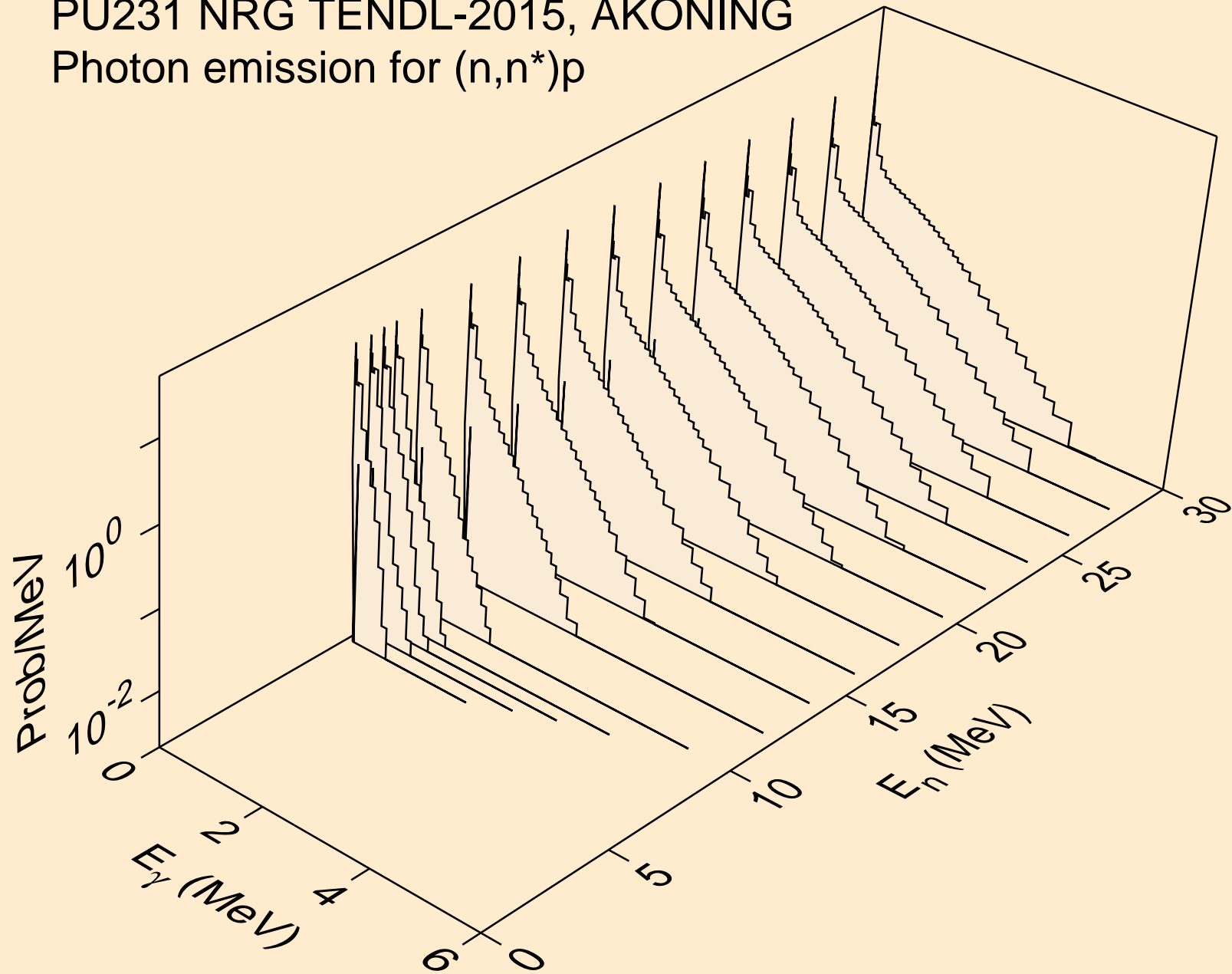
PU231 NRG TENDL-2015, AKONING  
Photon emission for (n,2n)<sub>a</sub>



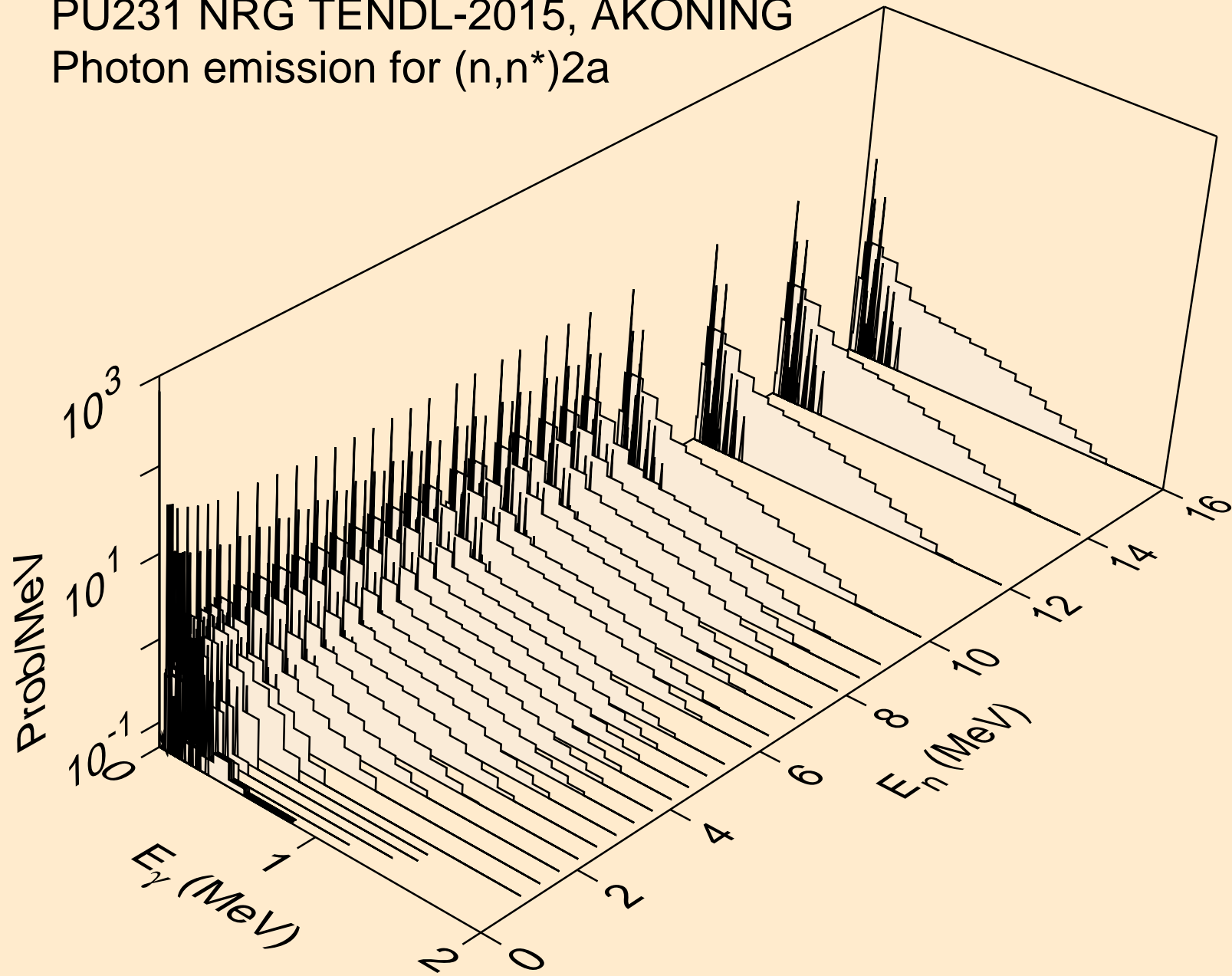
PU231 NRG TENDL-2015, AKONING  
Photon emission for (n,3n)a



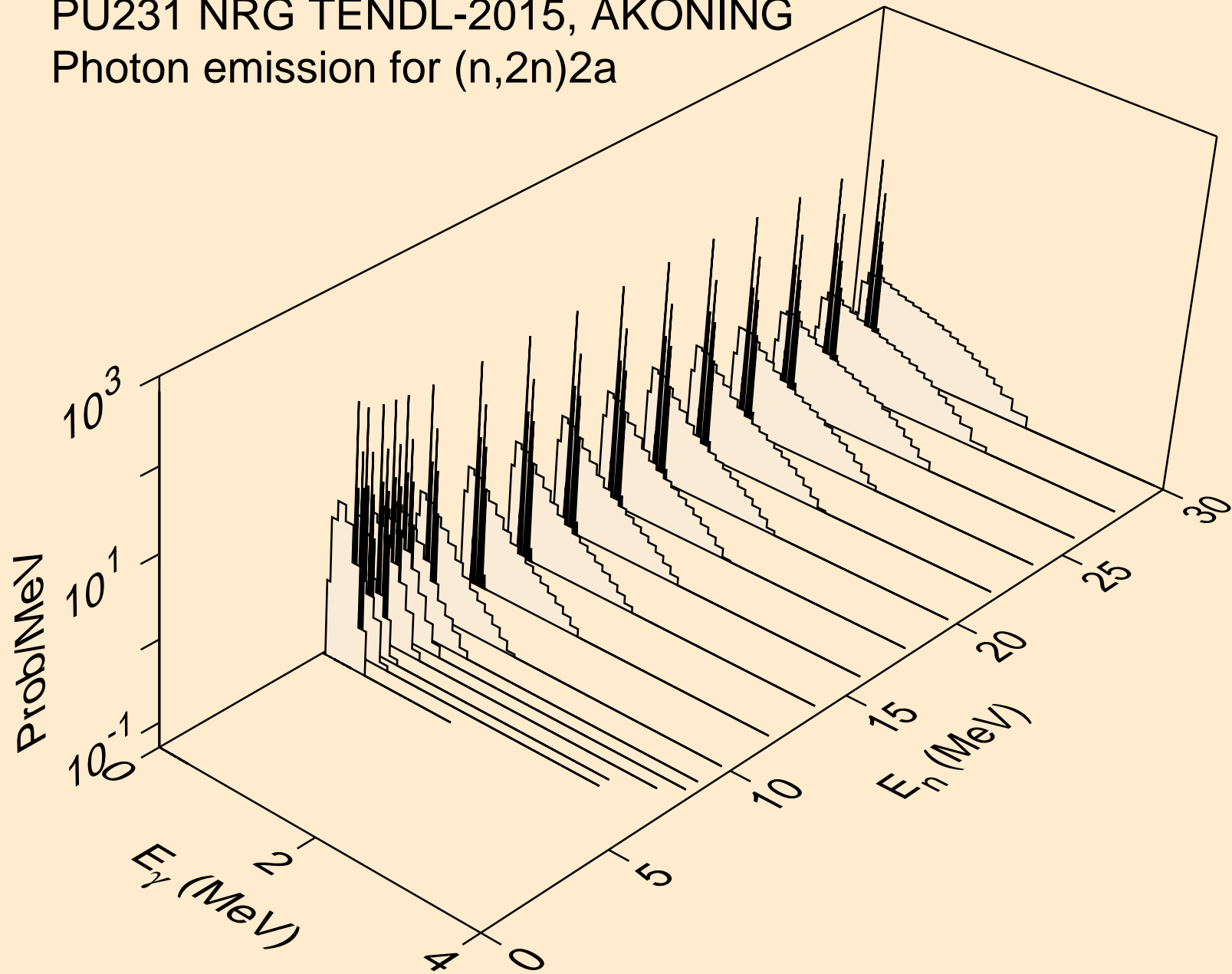
PU231 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)p



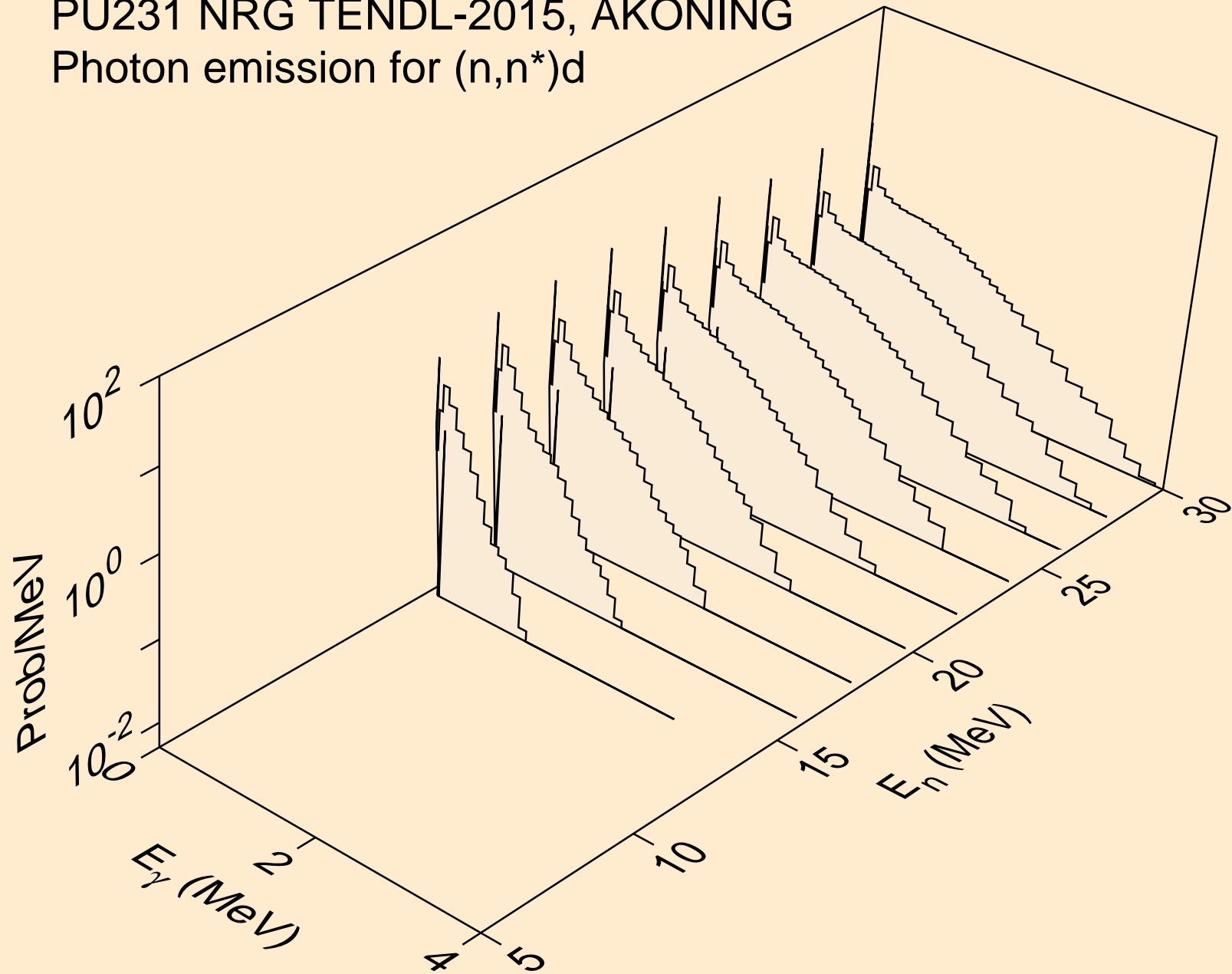
PU231 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)2a



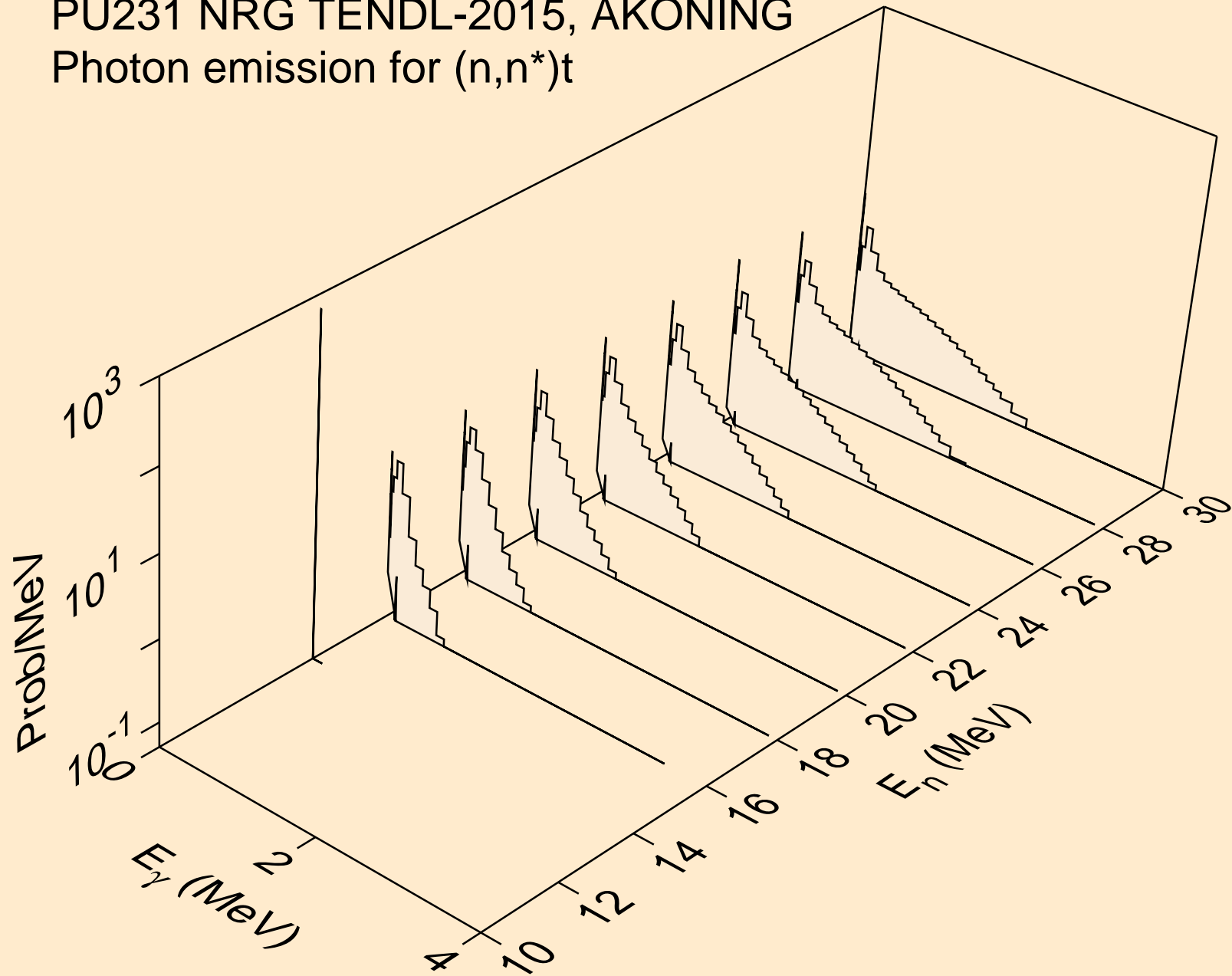
PU231 NRG TENDL-2015, AKONING  
Photon emission for (n,2n)2a



PU231 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)d

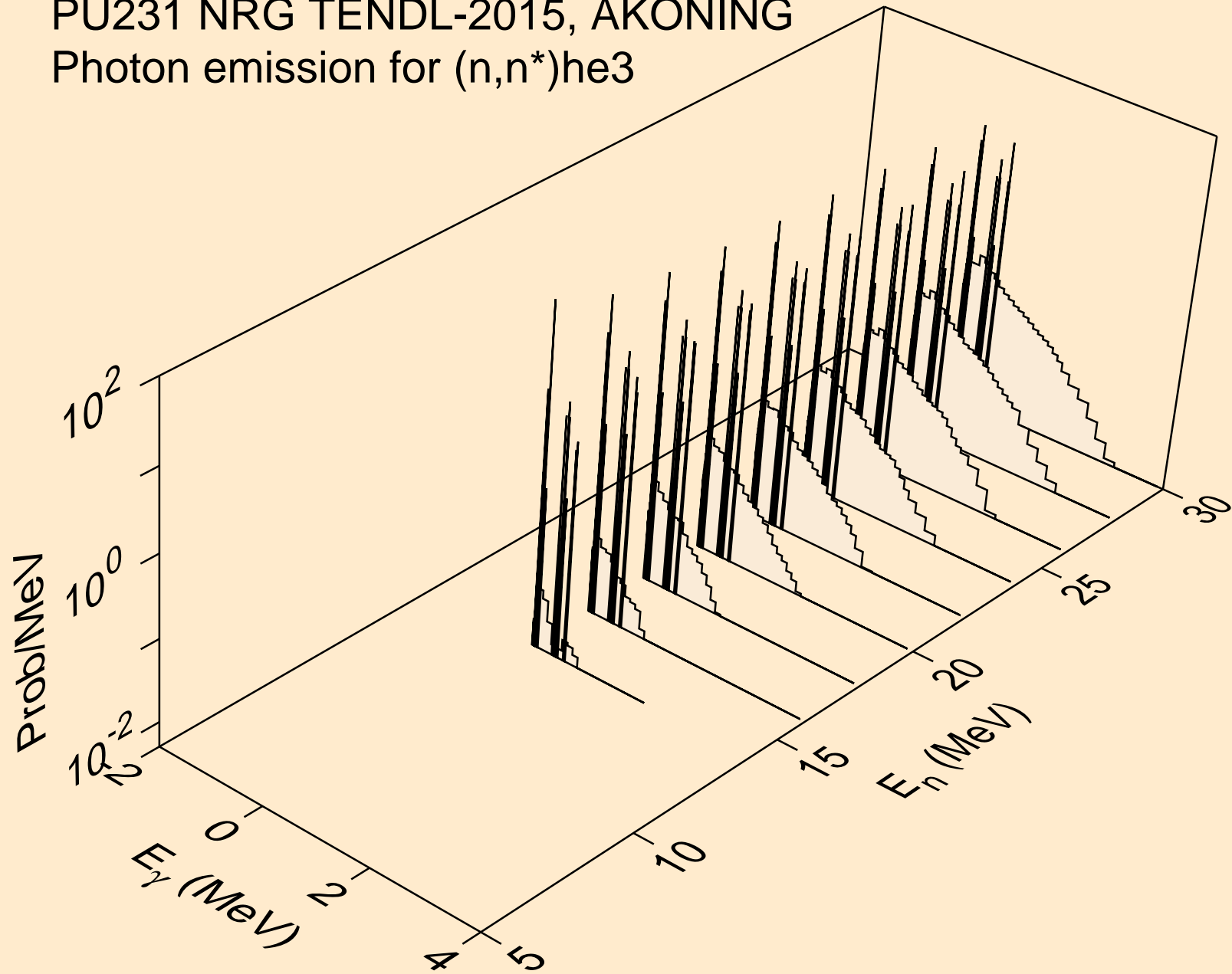


PU231 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)t

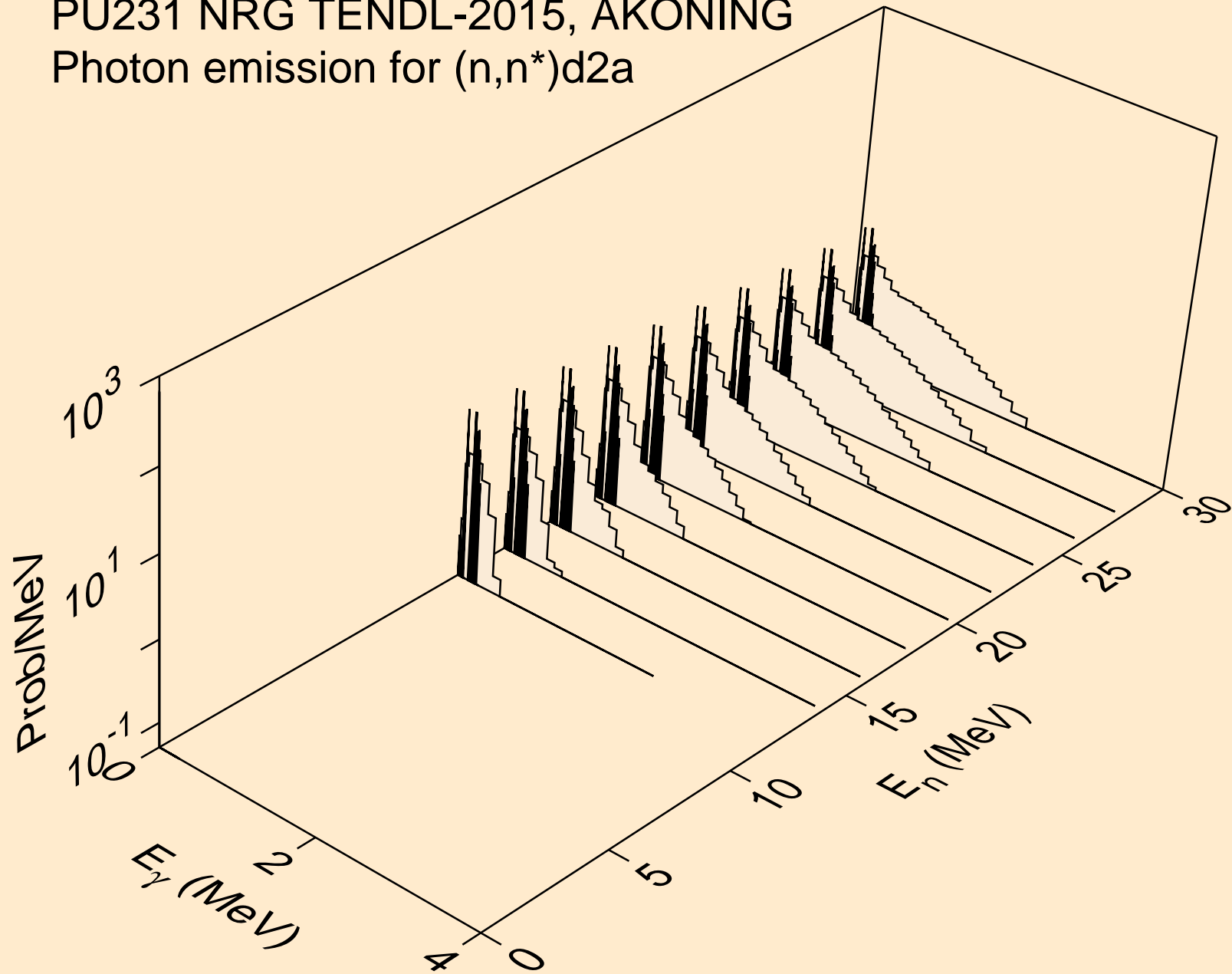




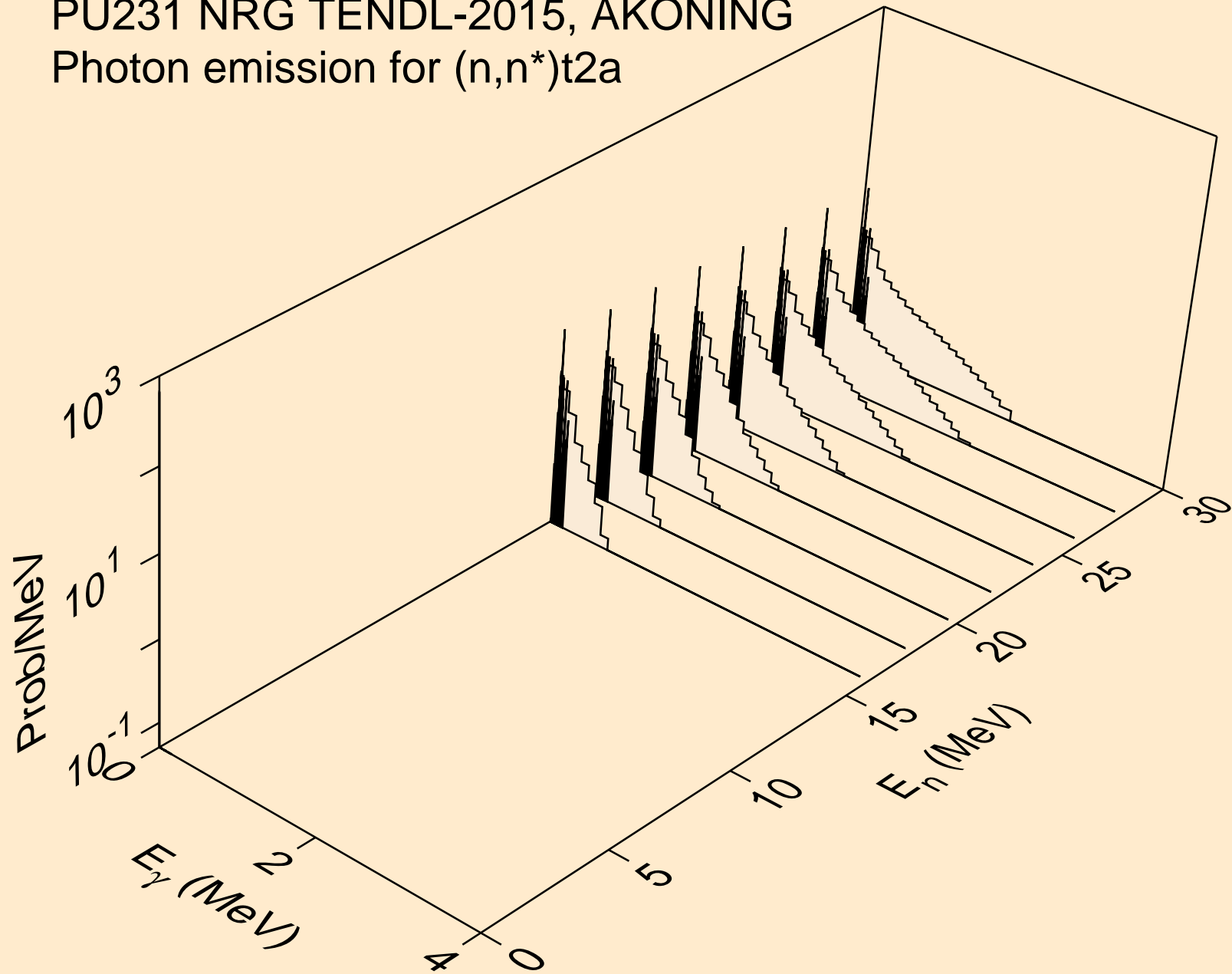
PU231 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)he3



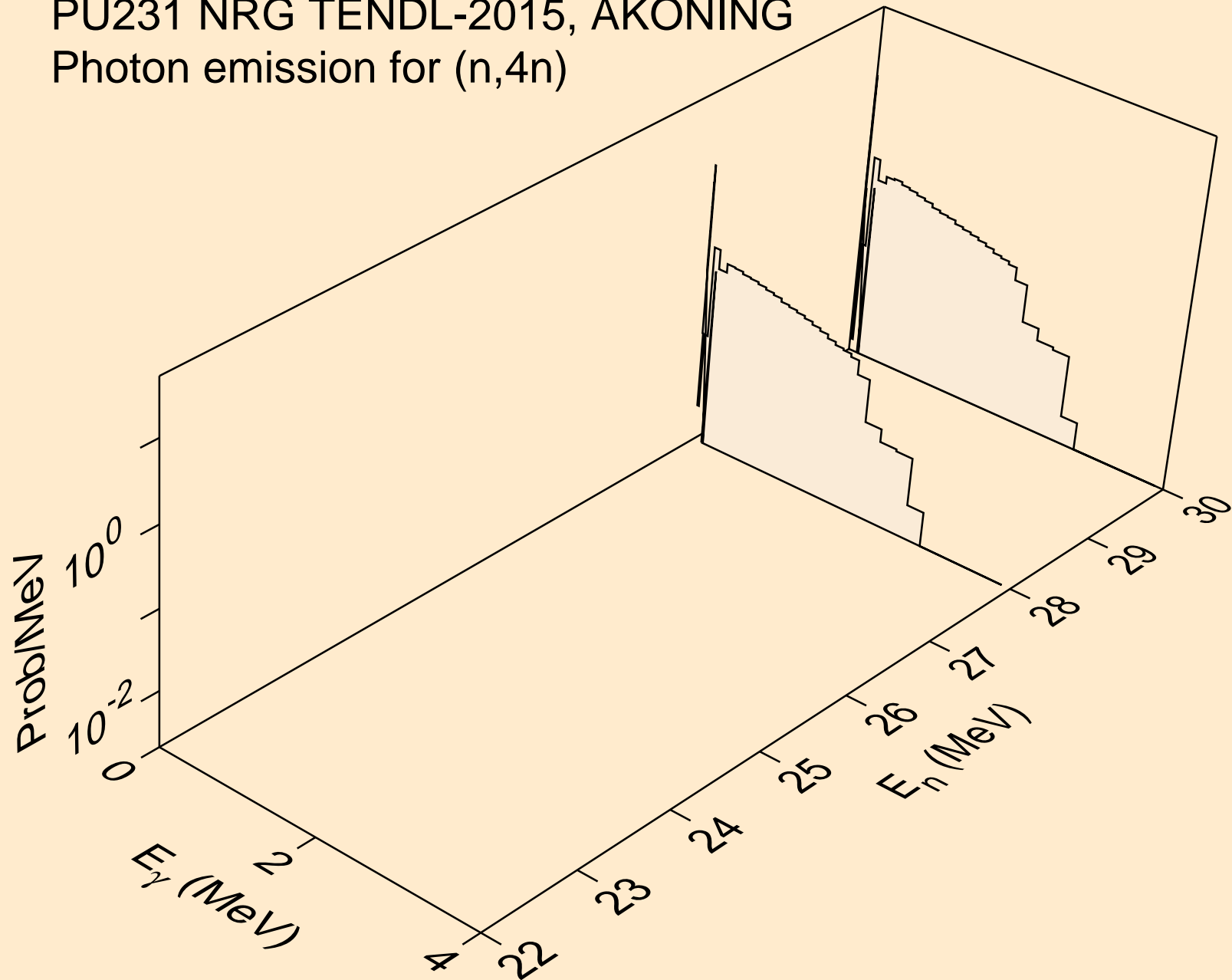
PU231 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)d2a



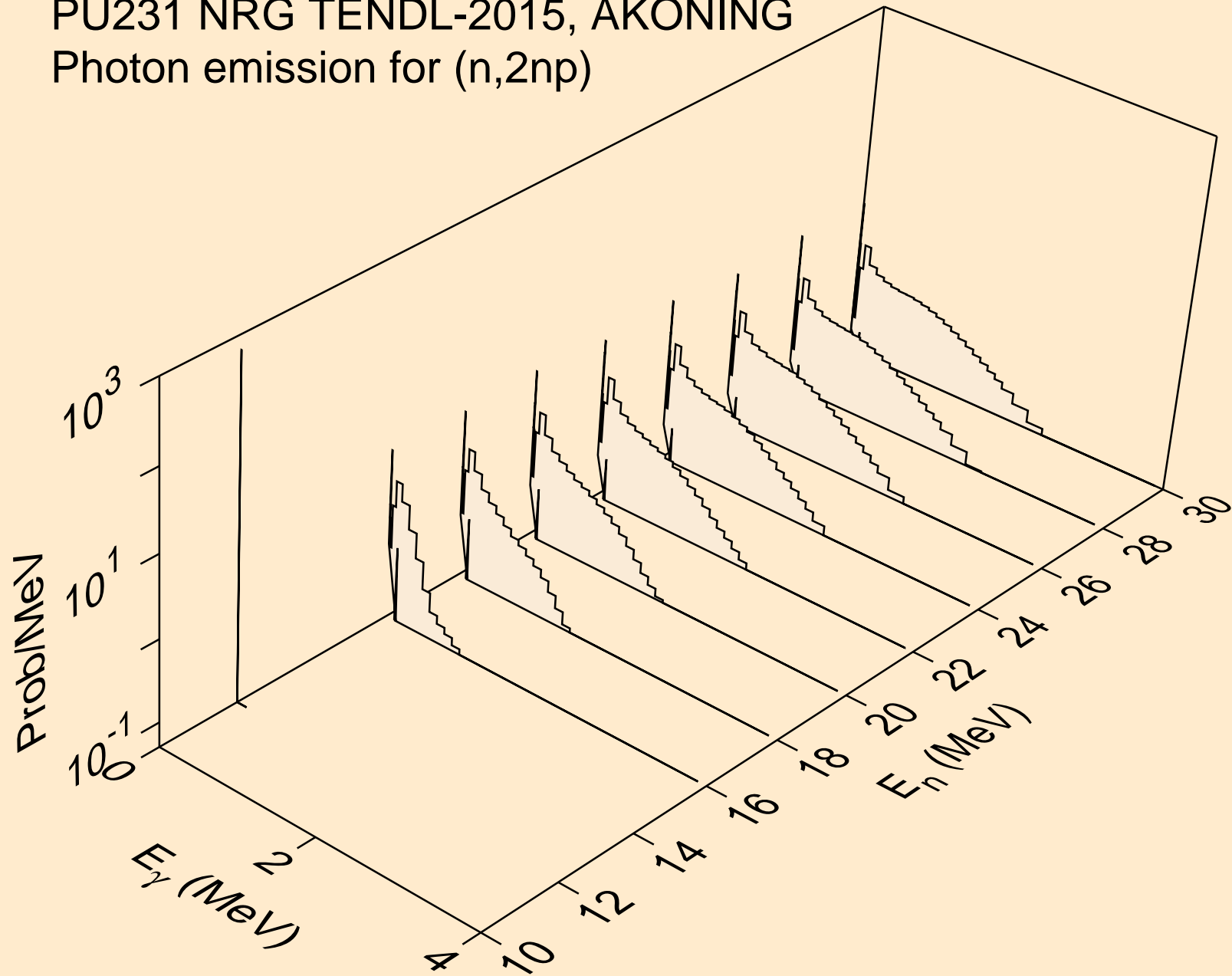
PU231 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)t2a



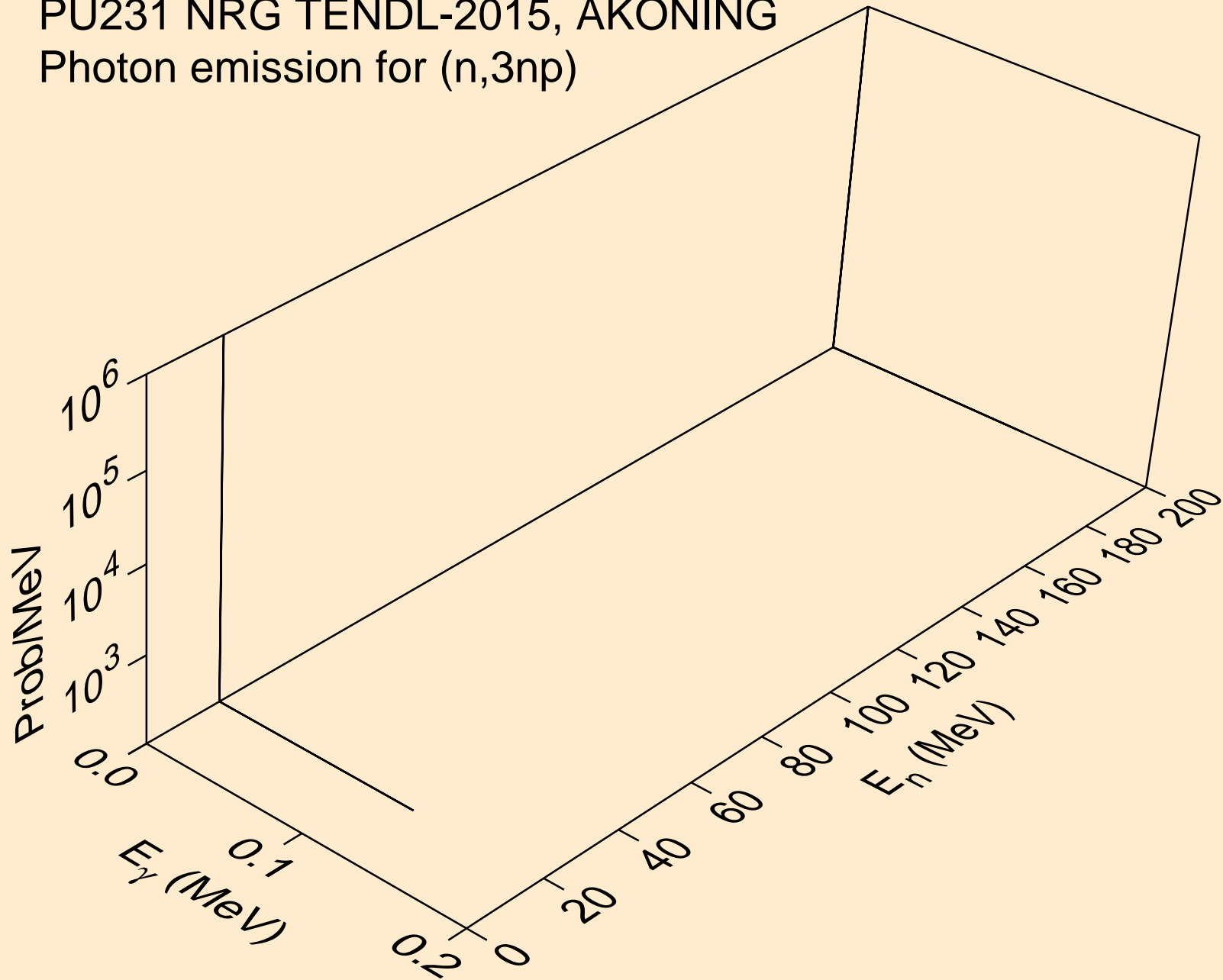
PU231 NRG TENDL-2015, AKONING  
Photon emission for (n,4n)



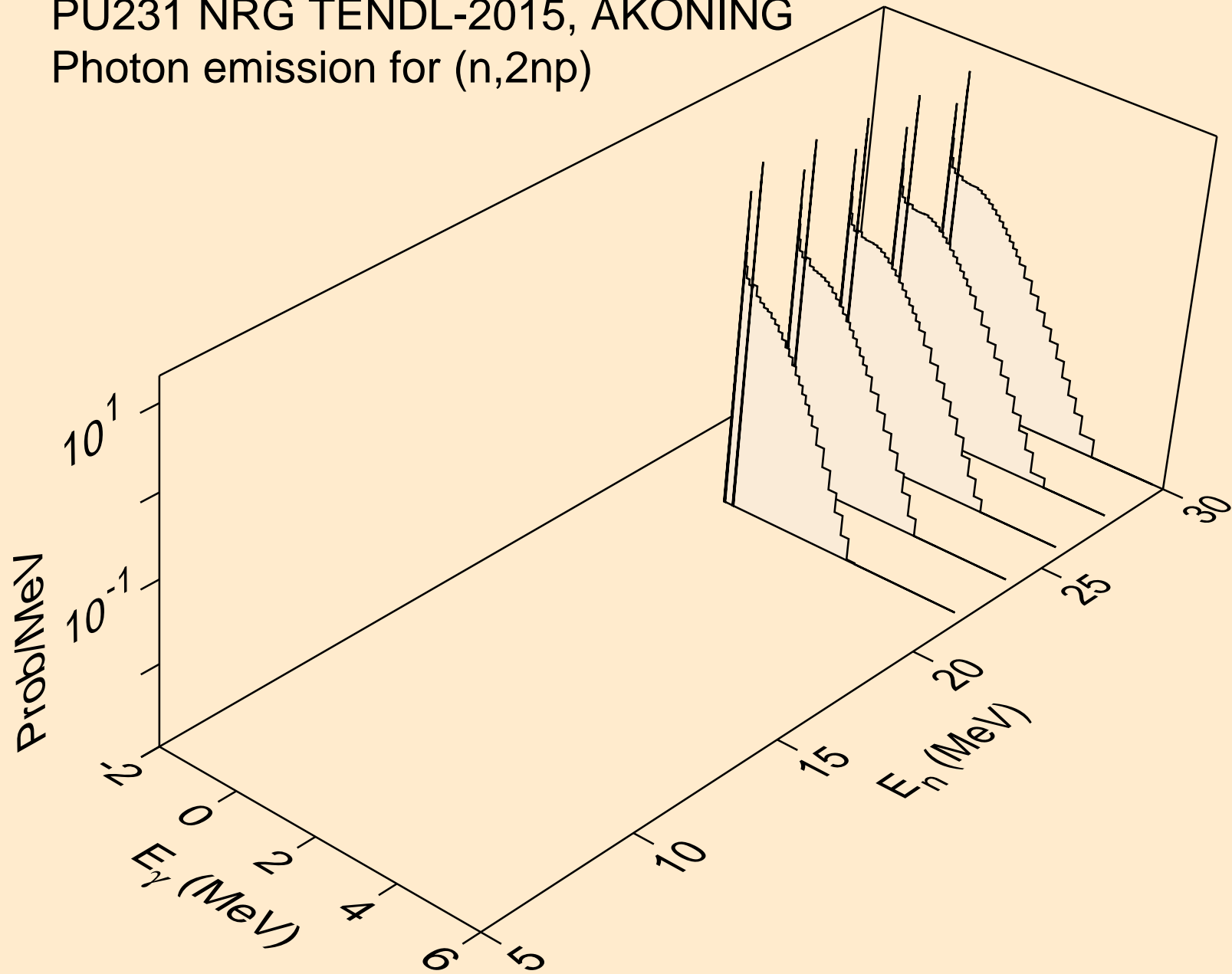
PU231 NRG TENDL-2015, AKONING  
Photon emission for (n,2np)



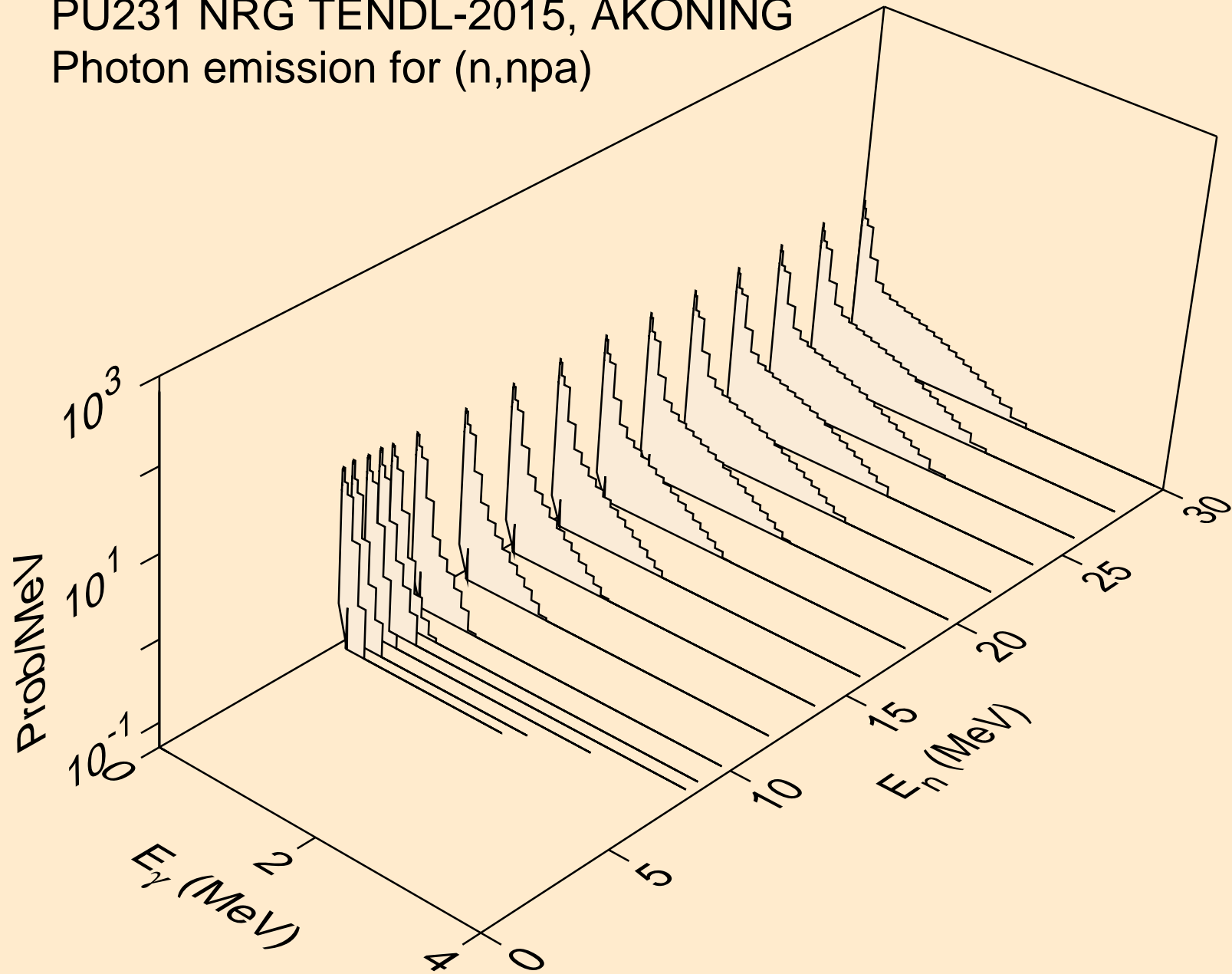
PU231 NRG TENDL-2015, AKONING  
Photon emission for (n,3np)



PU231 NRG TENDL-2015, AKONING  
Photon emission for (n,2np)

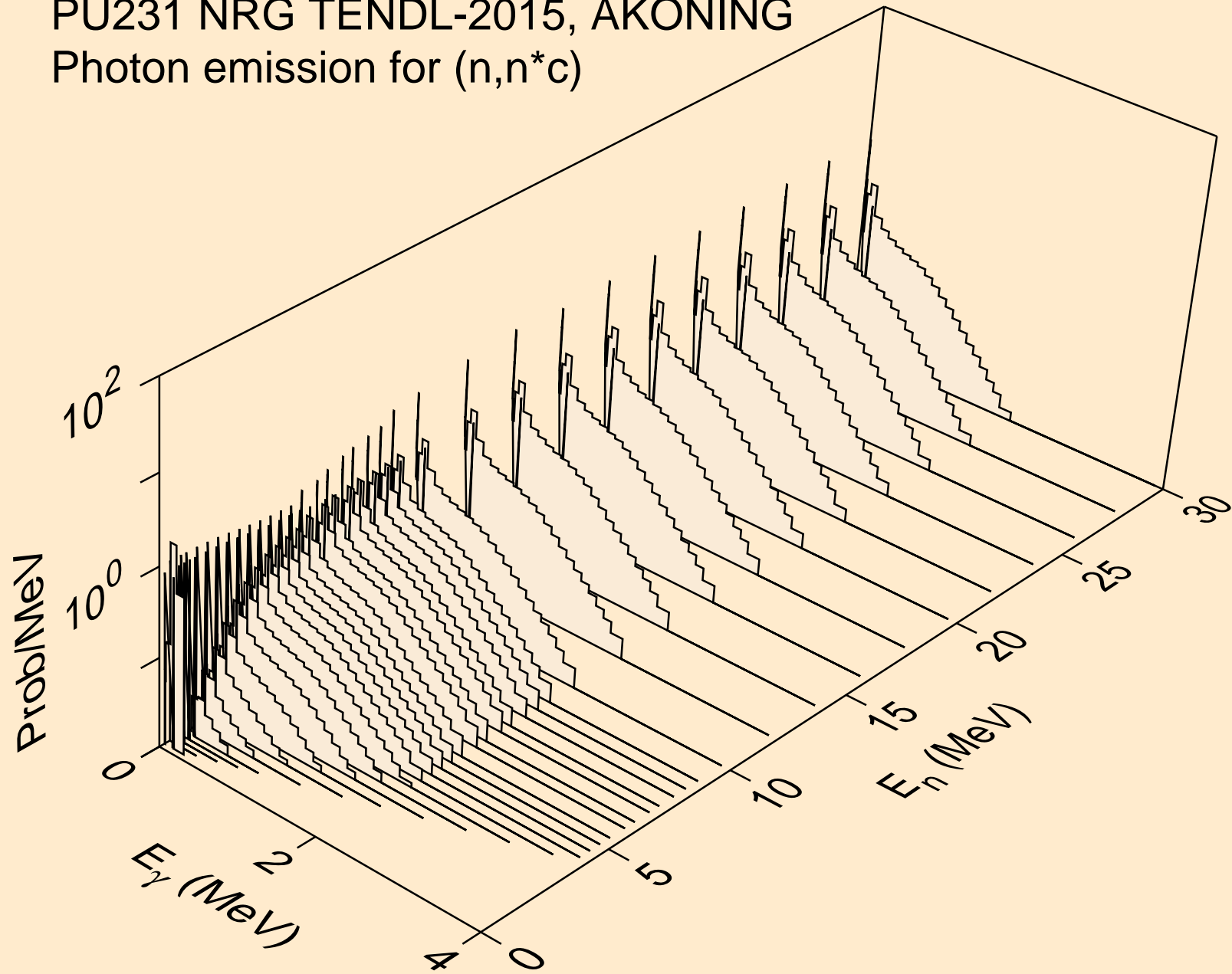


PU231 NRG TENDL-2015, AKONING  
Photon emission for (n,npa)

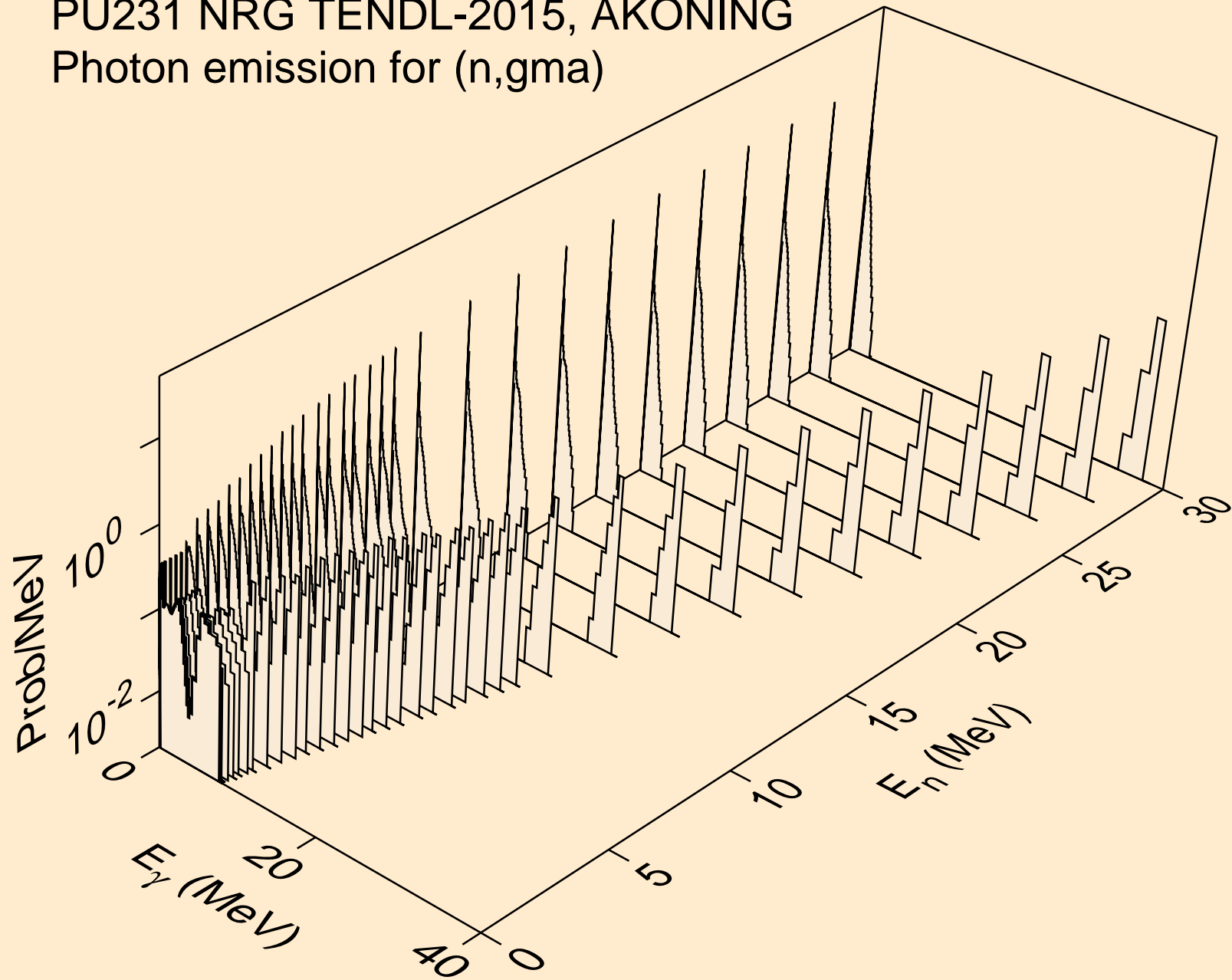




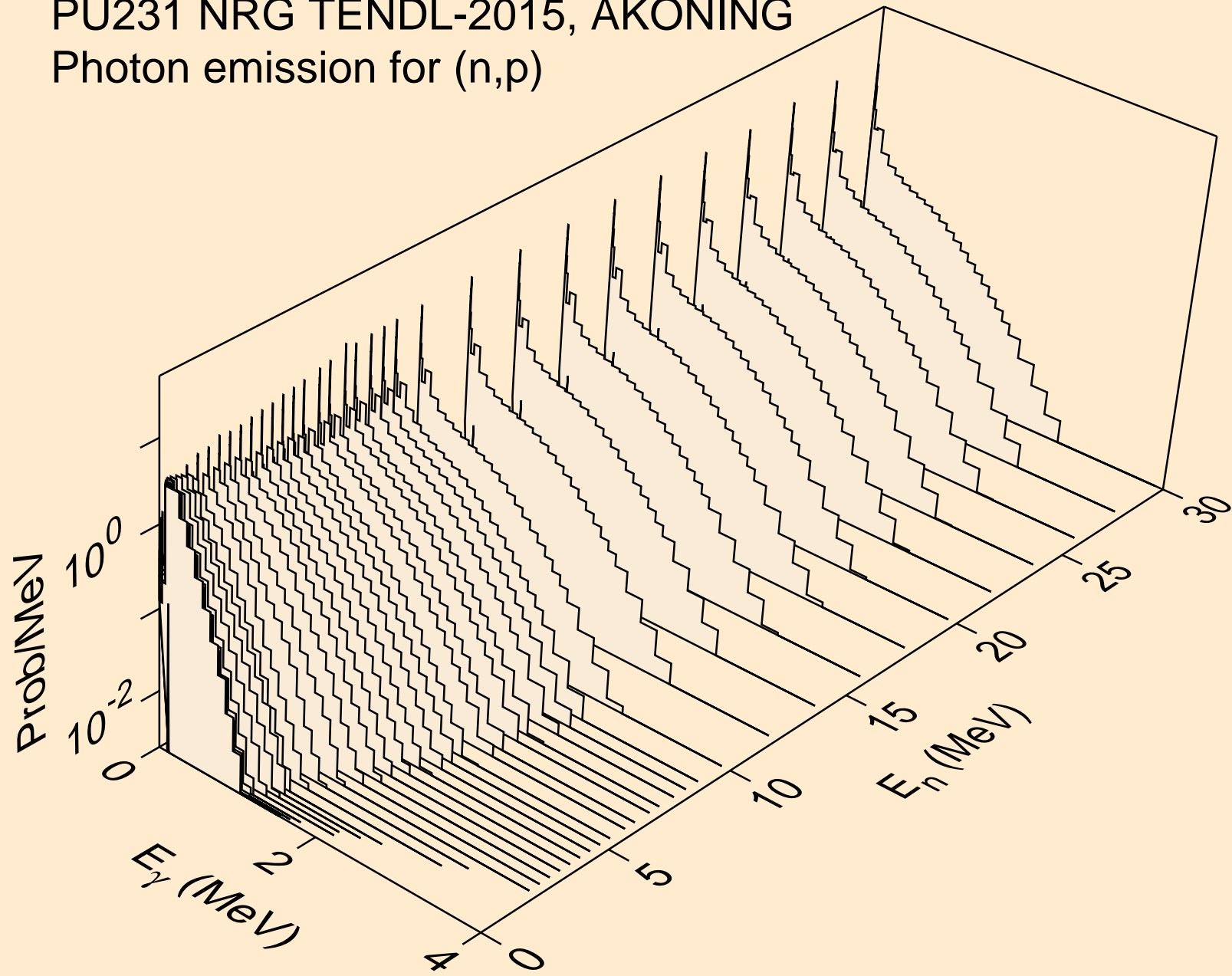
PU231 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*c)



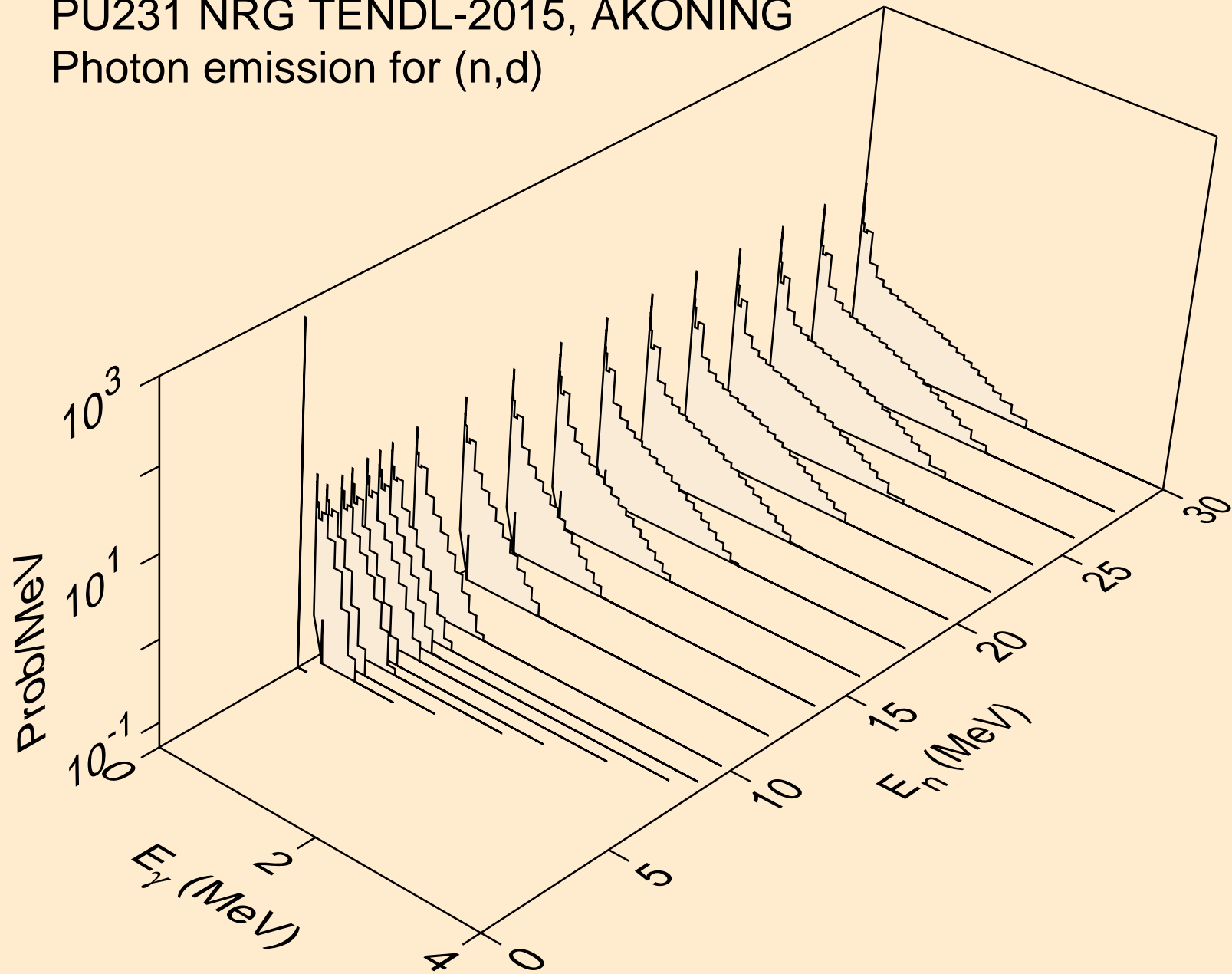
PU231 NRG TENDL-2015, AKONING  
Photon emission for (n,gma)



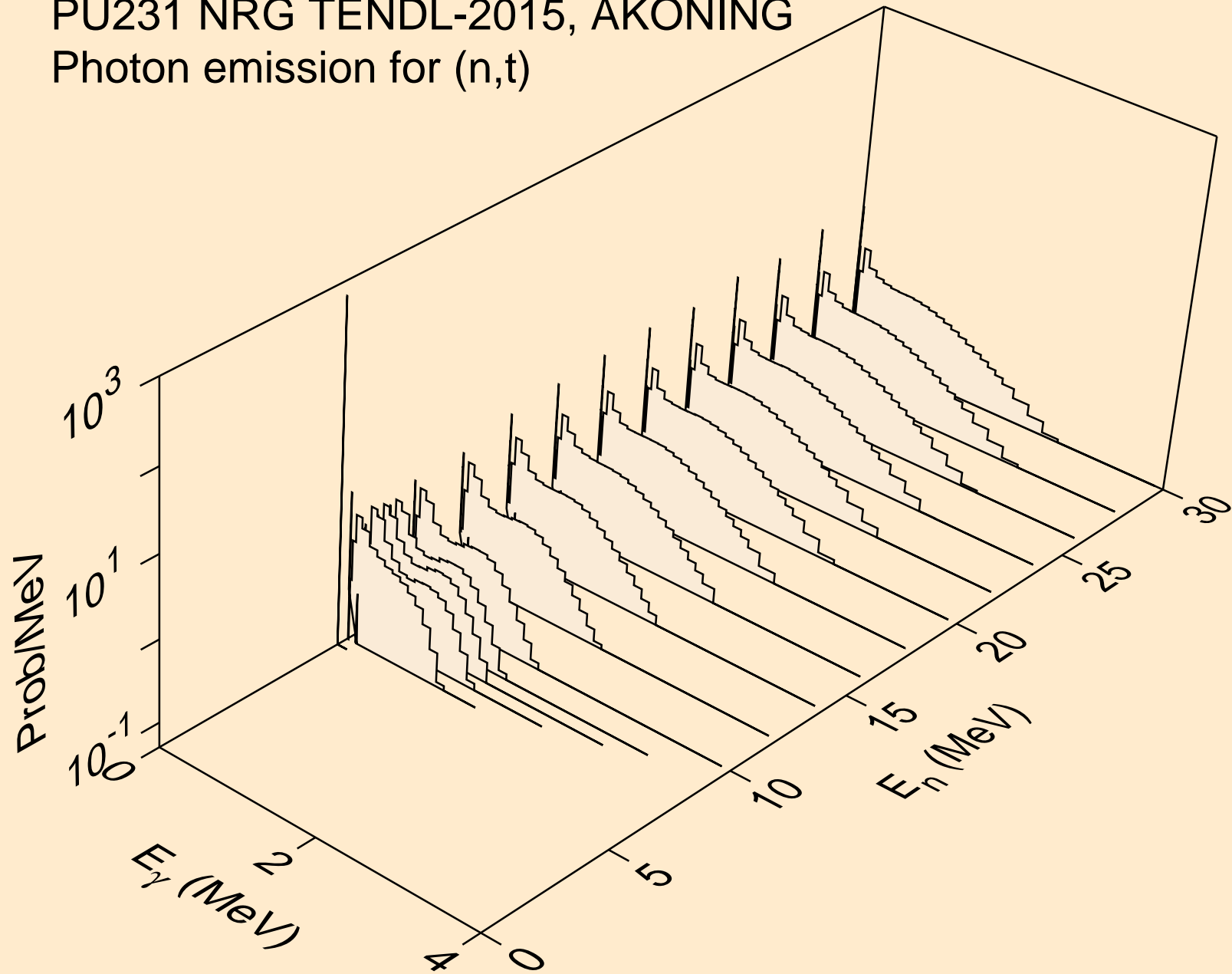
PU231 NRG TENDL-2015, AKONING  
Photon emission for (n,p)



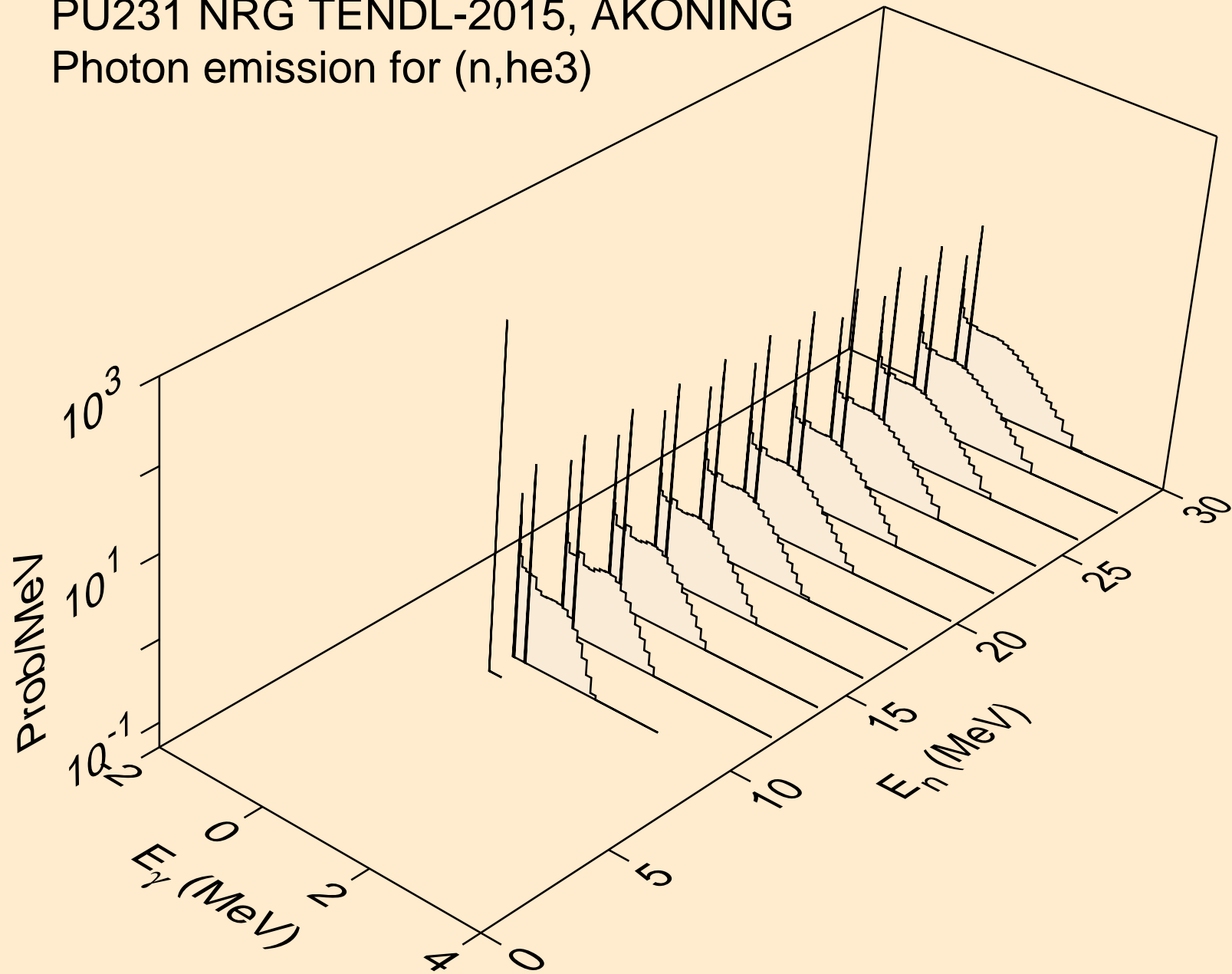
PU231 NRG TENDL-2015, AKONING  
Photon emission for (n,d)



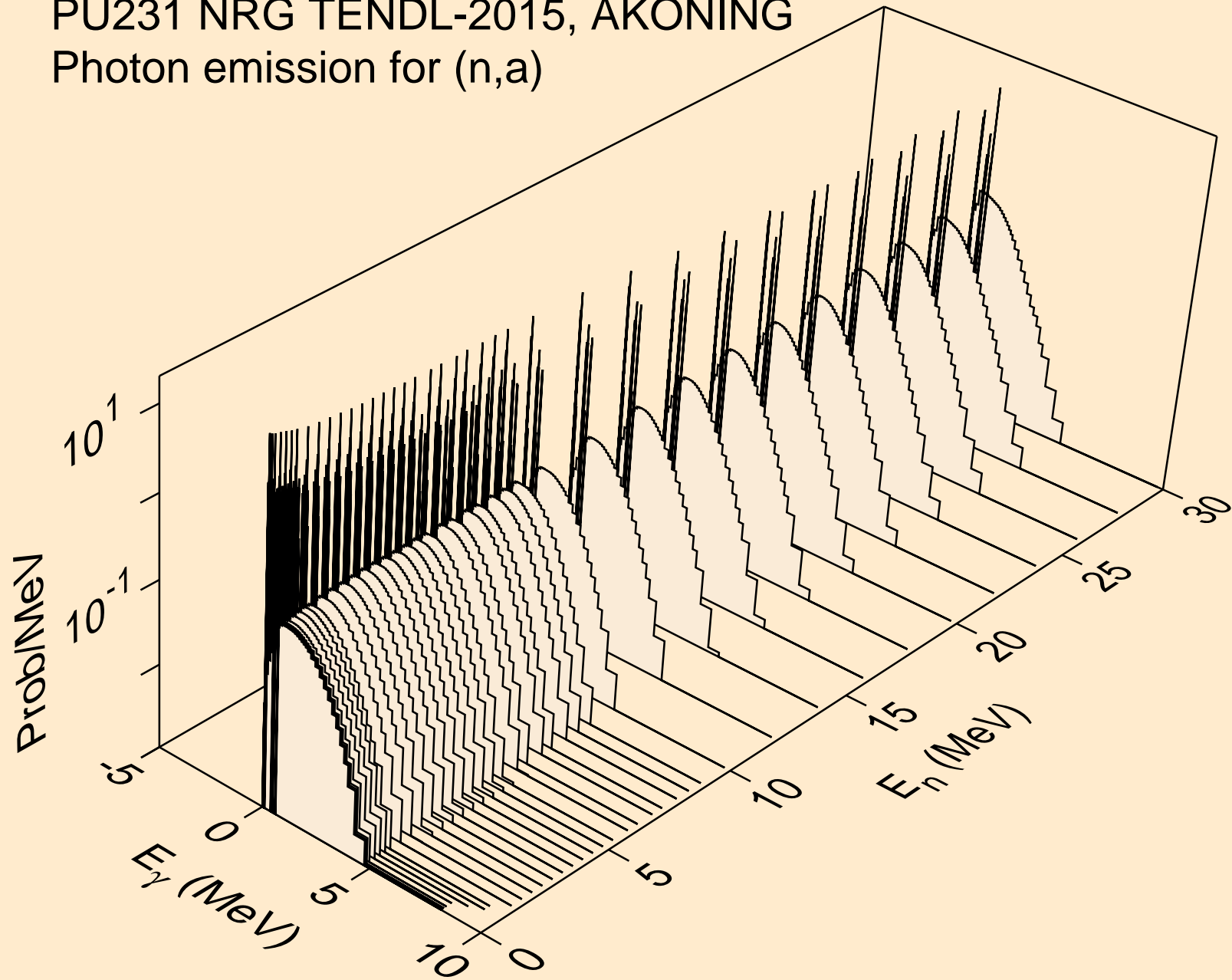
PU231 NRG TENDL-2015, AKONING  
Photon emission for (n,t)



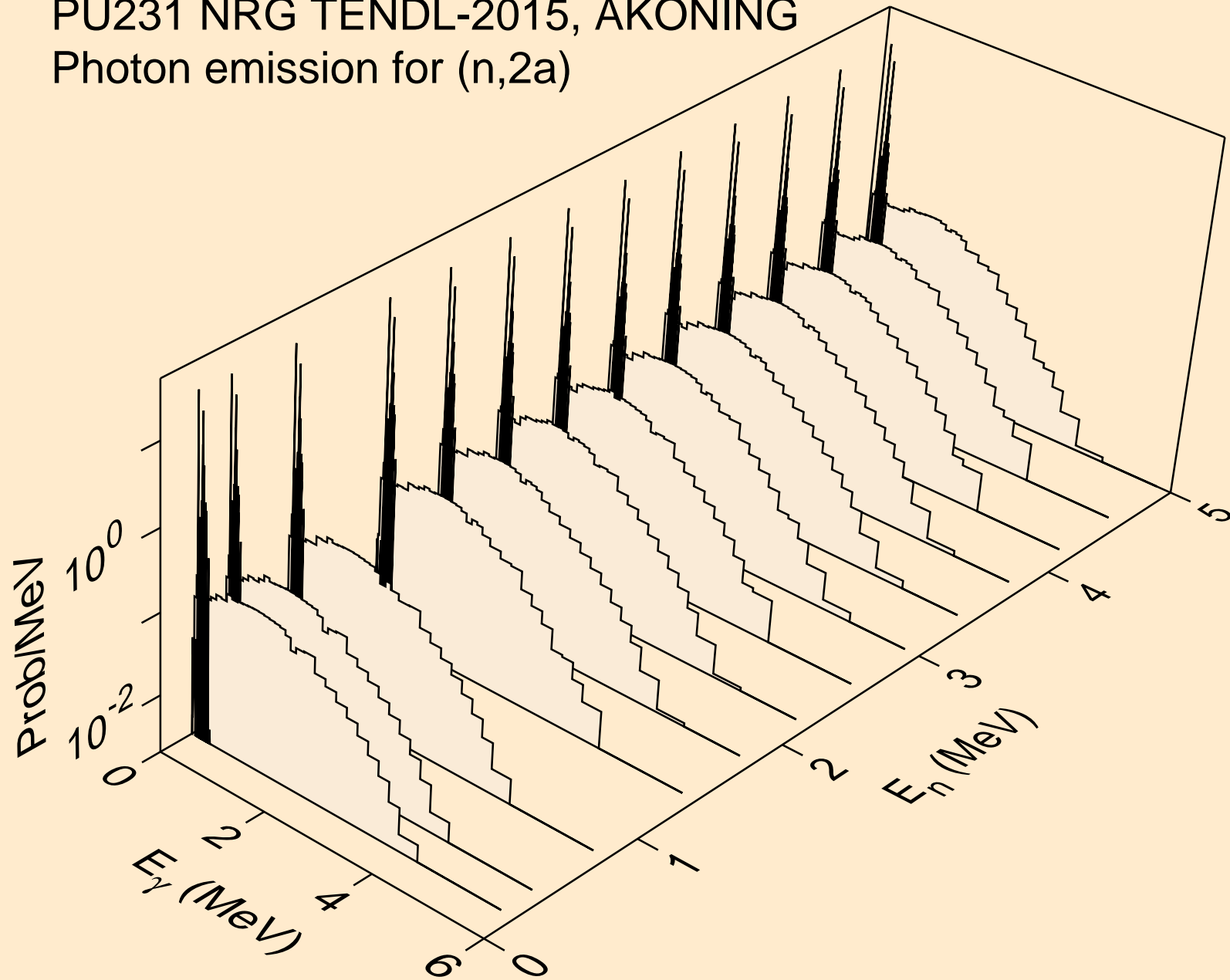
PU231 NRG TENDL-2015, AKONING  
Photon emission for (n,he3)



PU231 NRG TENDL-2015, AKONING  
Photon emission for (n,a)

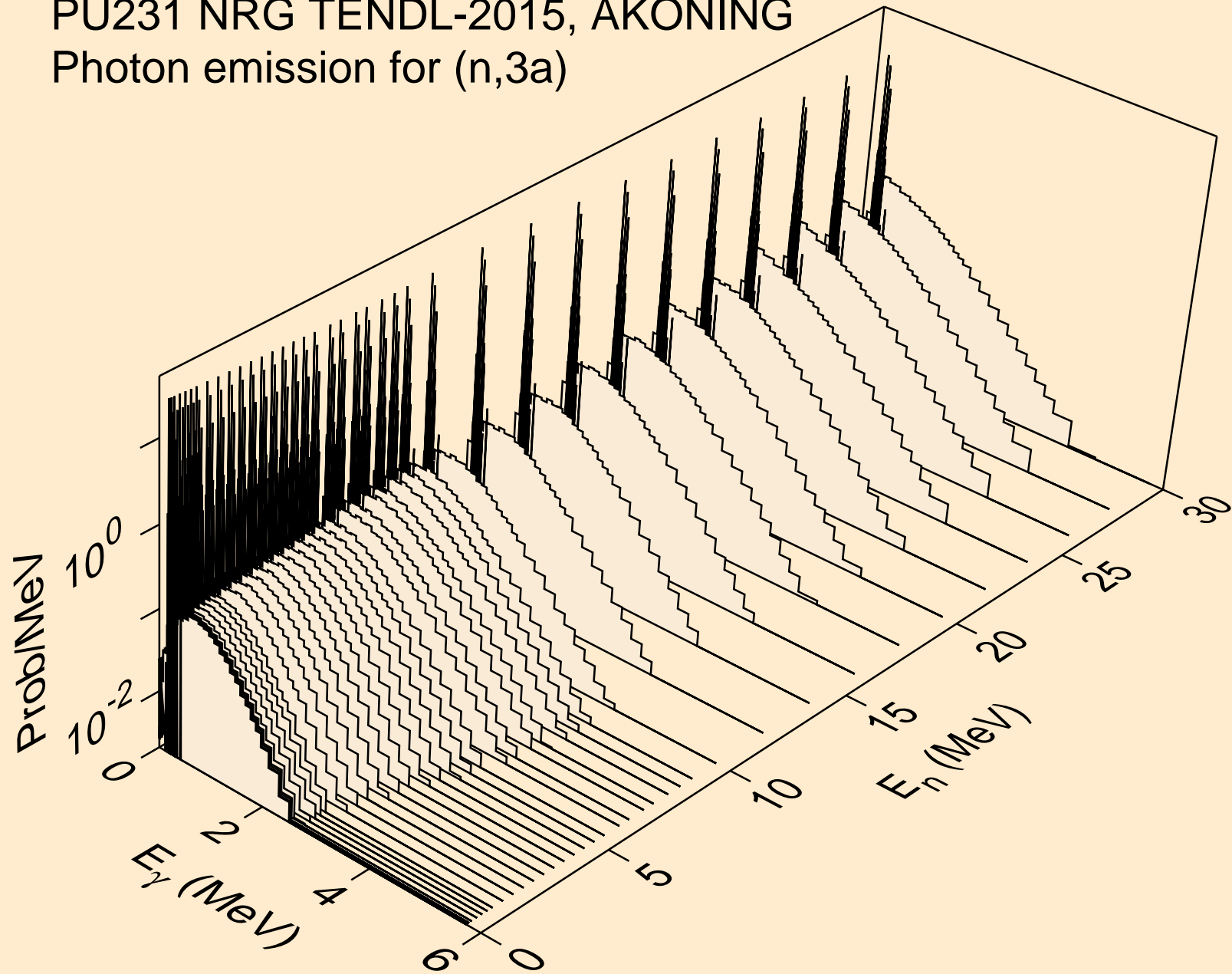


PU231 NRG TENDL-2015, AKONING  
Photon emission for (n,2a)

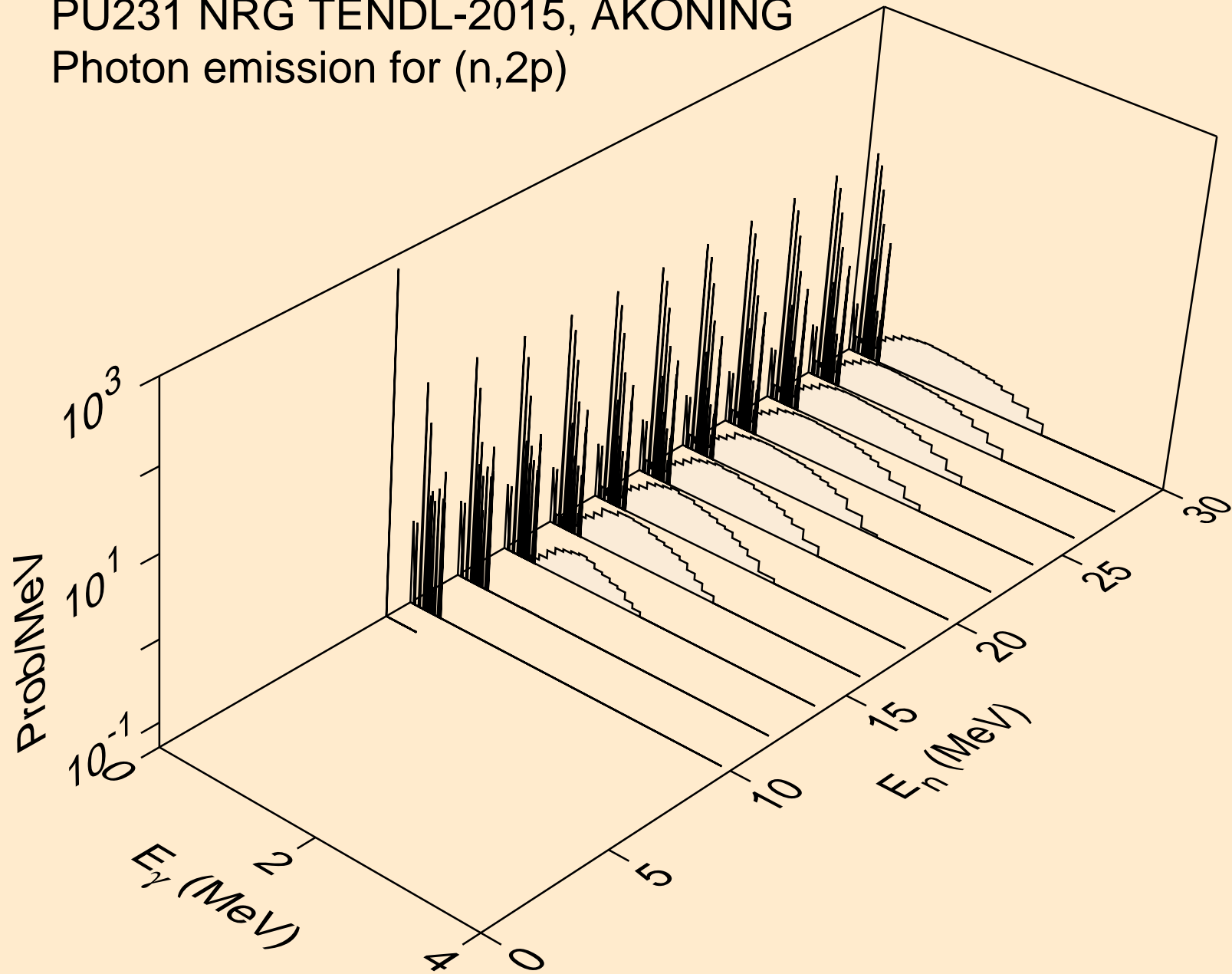




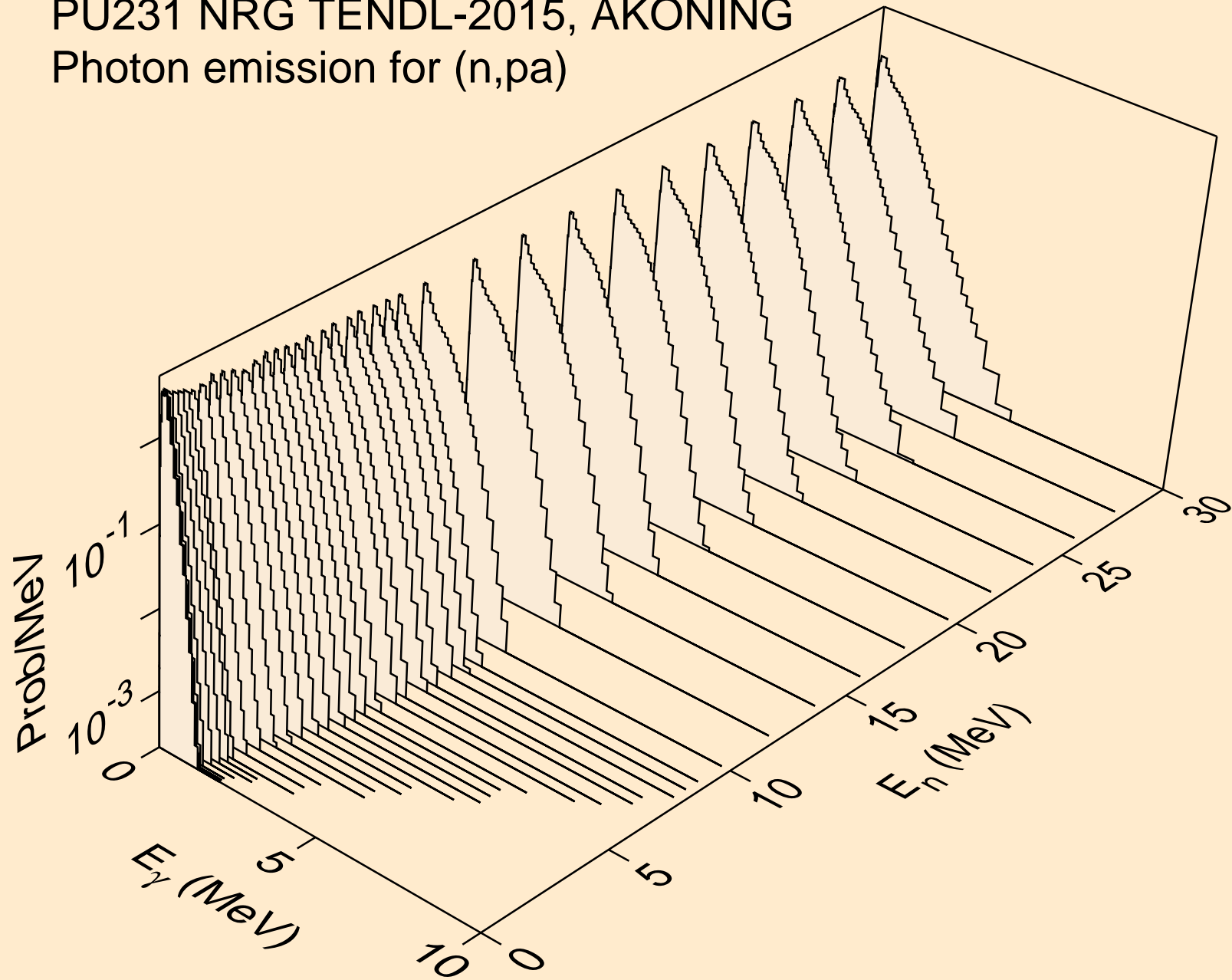
PU231 NRG TENDL-2015, AKONING  
Photon emission for (n,3a)



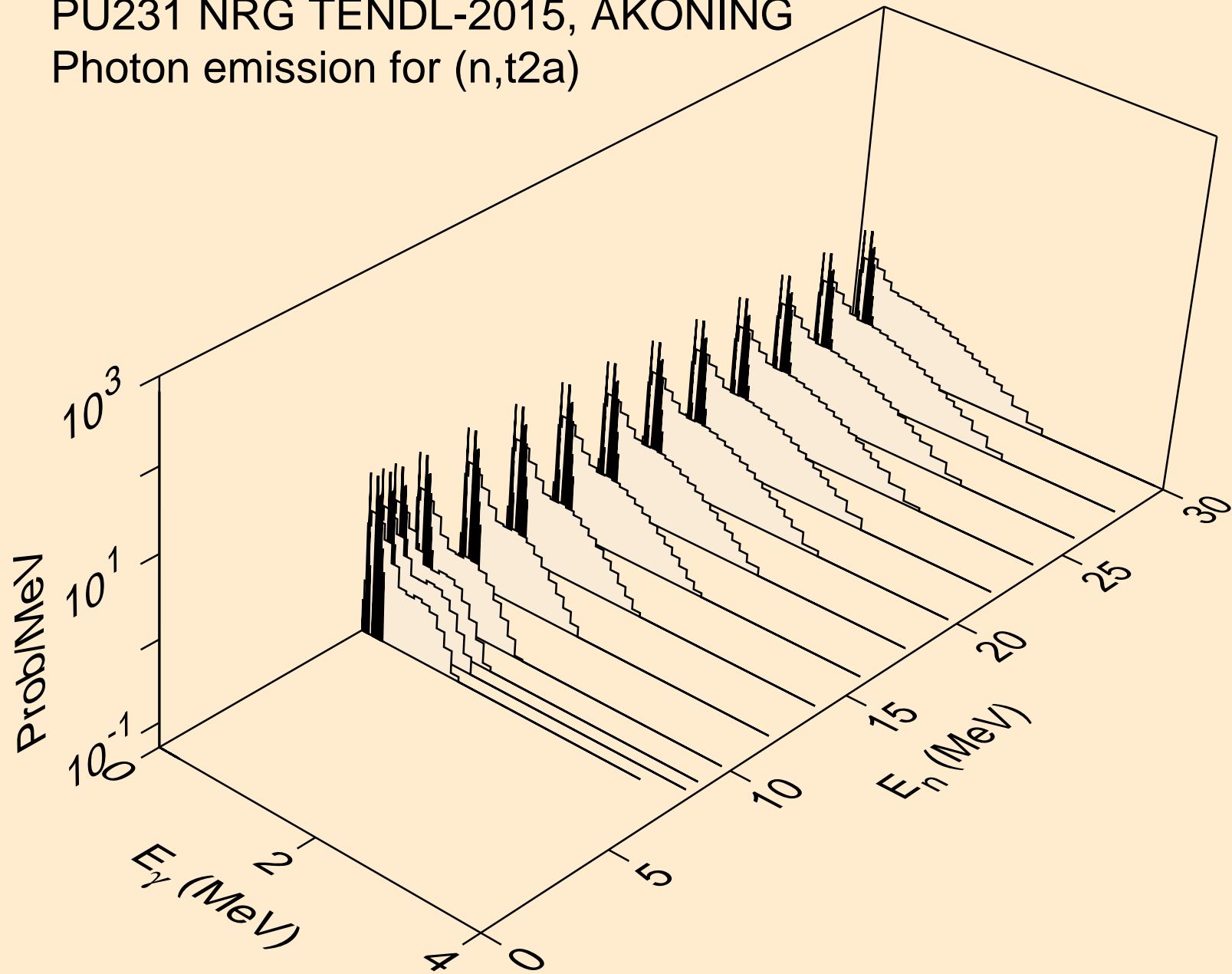
PU231 NRG TENDL-2015, AKONING  
Photon emission for (n,2p)



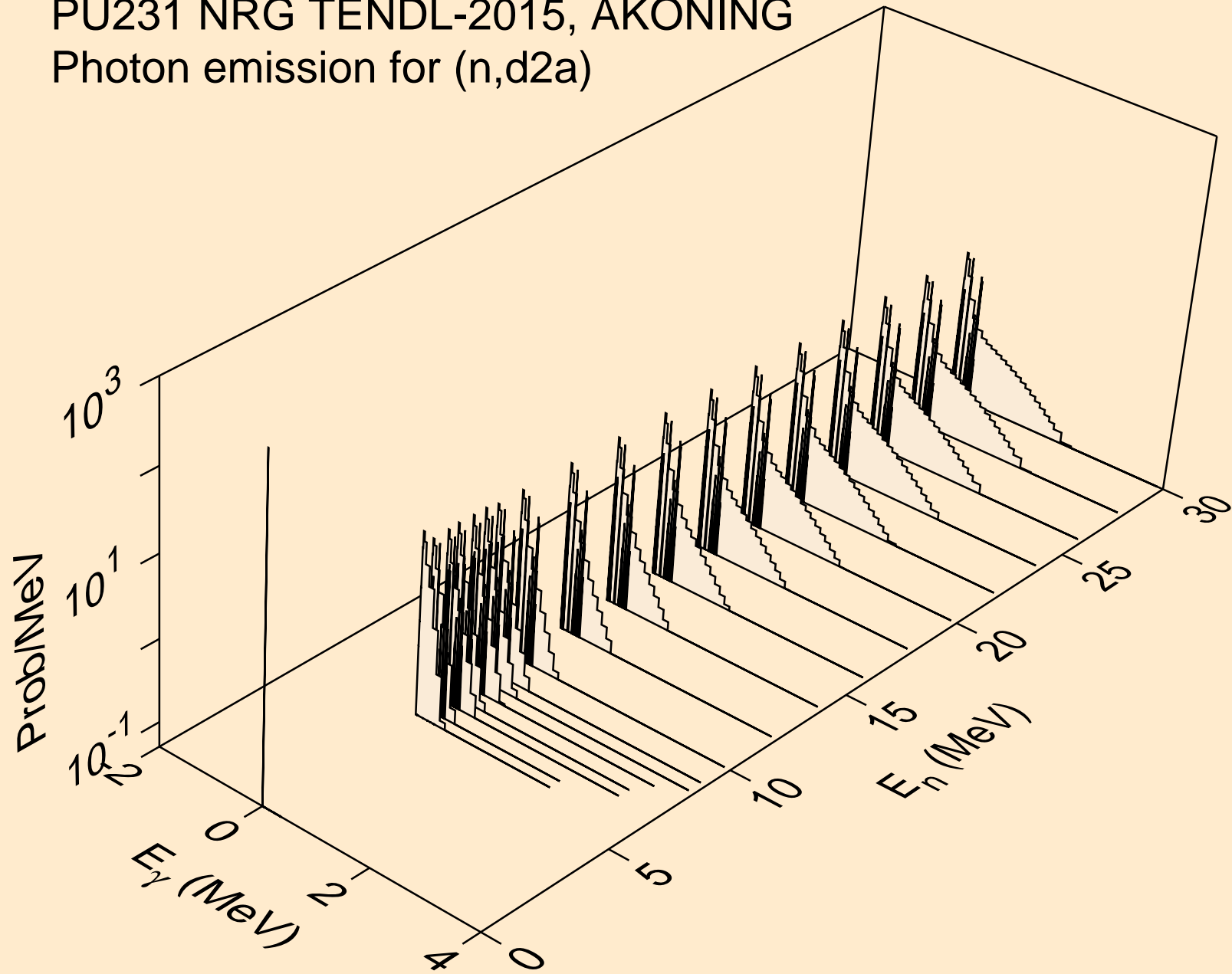
PU231 NRG TENDL-2015, AKONING  
Photon emission for (n,pa)



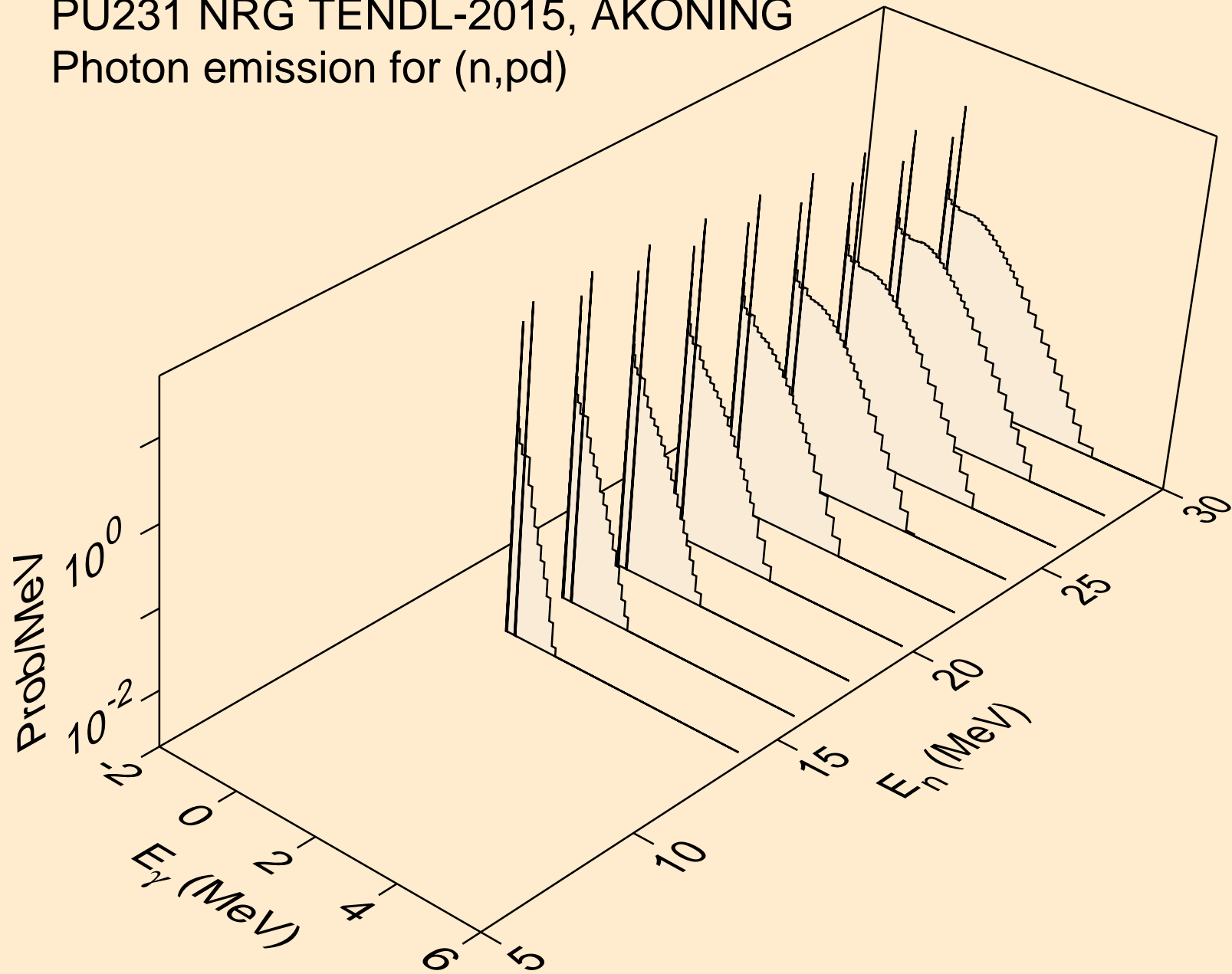
PU231 NRG TENDL-2015, AKONING  
Photon emission for (n,t2a)



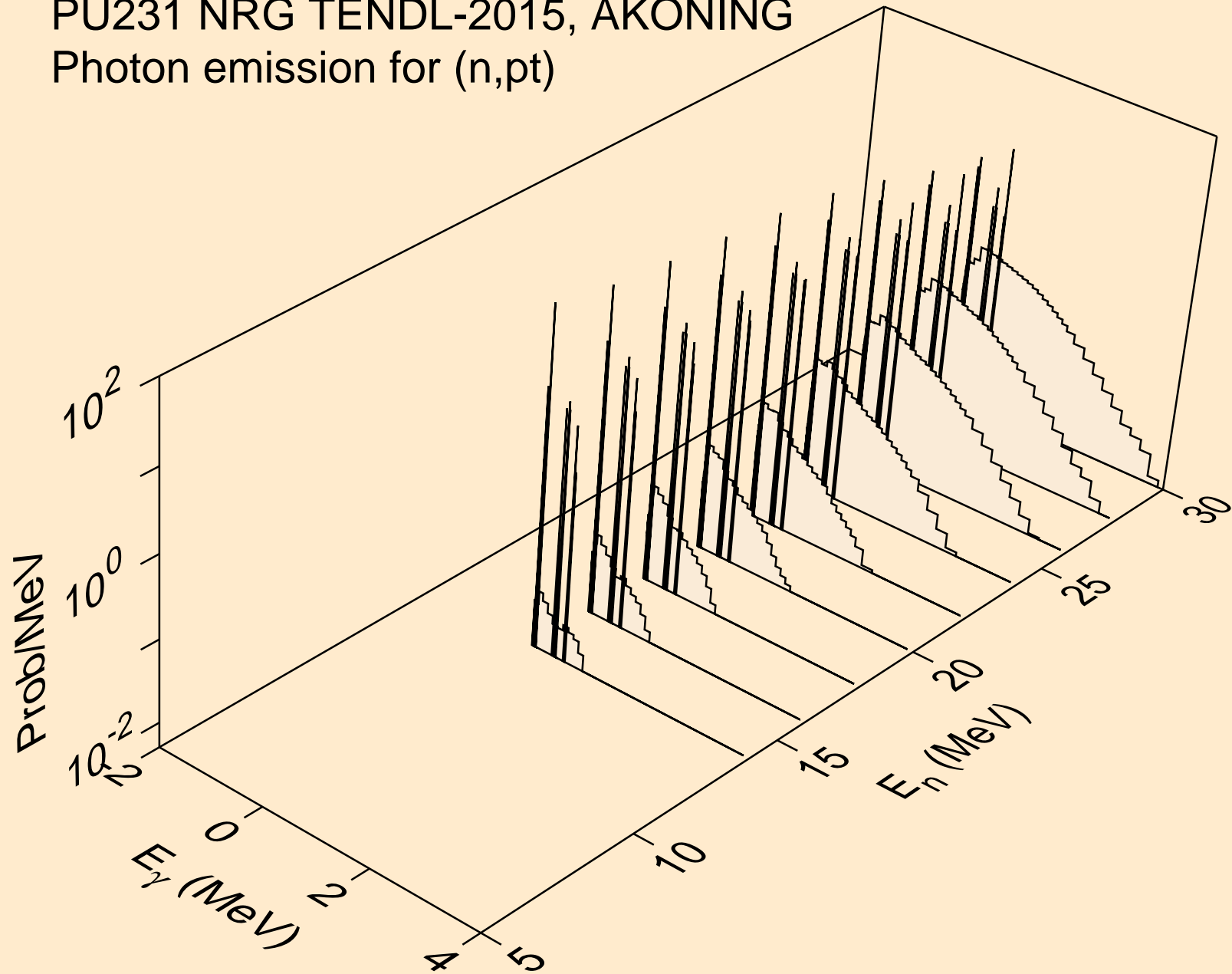
PU231 NRG TENDL-2015, AKONING  
Photon emission for (n,d2a)



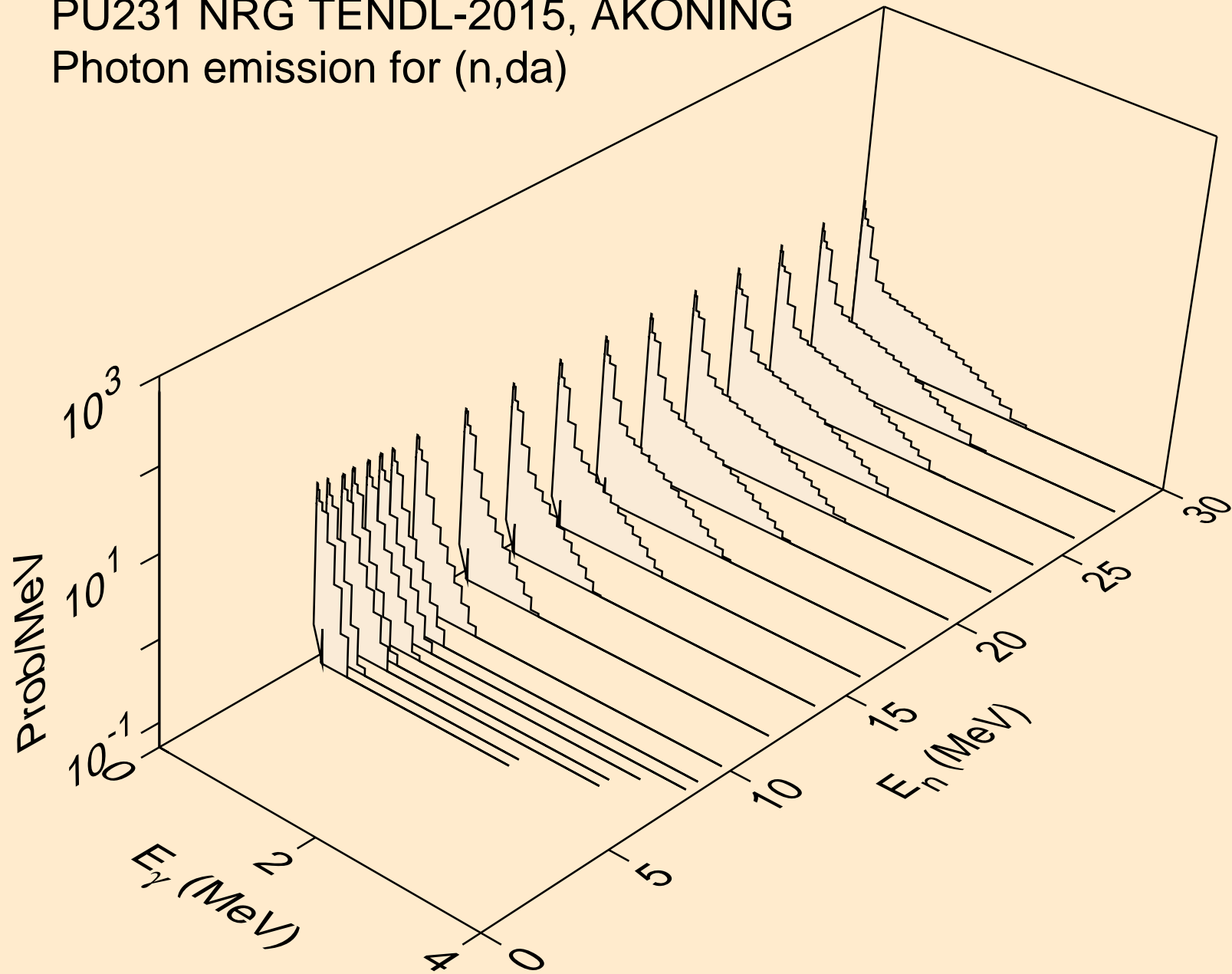
PU231 NRG TENDL-2015, AKONING  
Photon emission for (n,pd)



PU231 NRG TENDL-2015, AKONING  
Photon emission for (n,pt)

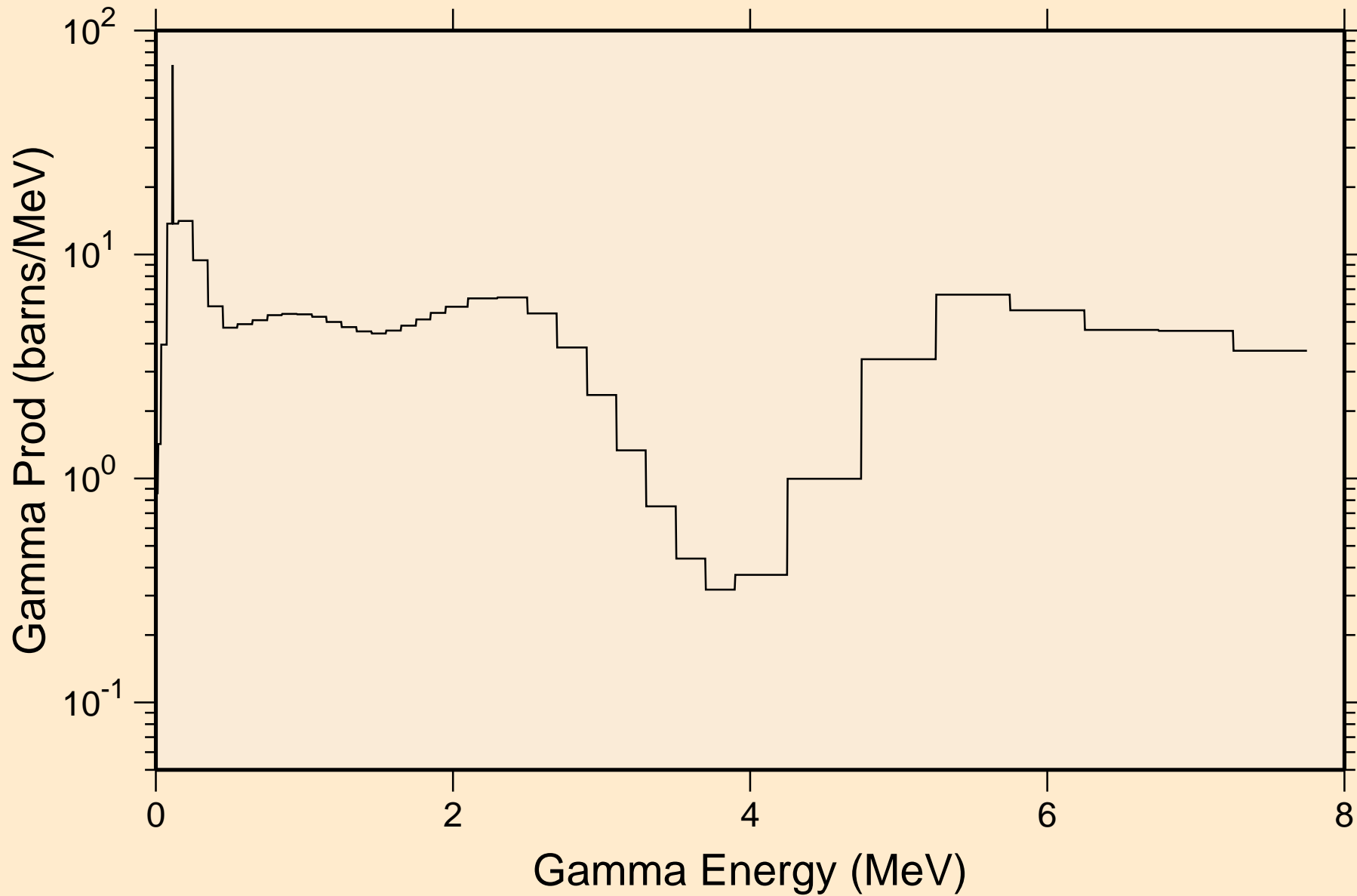


PU231 NRG TENDL-2015, AKONING  
Photon emission for (n,da)

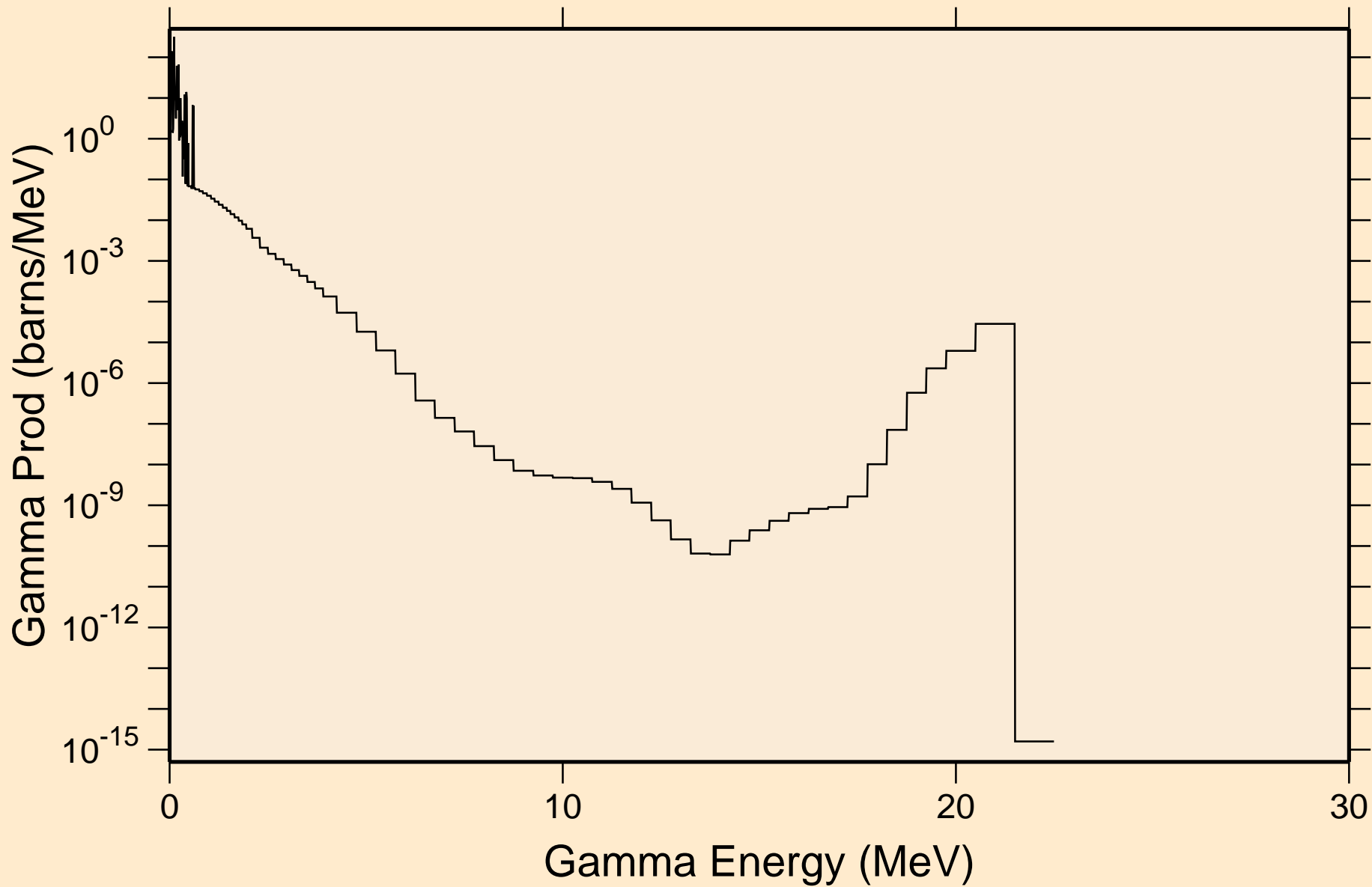




PU231 NRG TENDL-2015, AKONING  
thermal capture photon spectrum

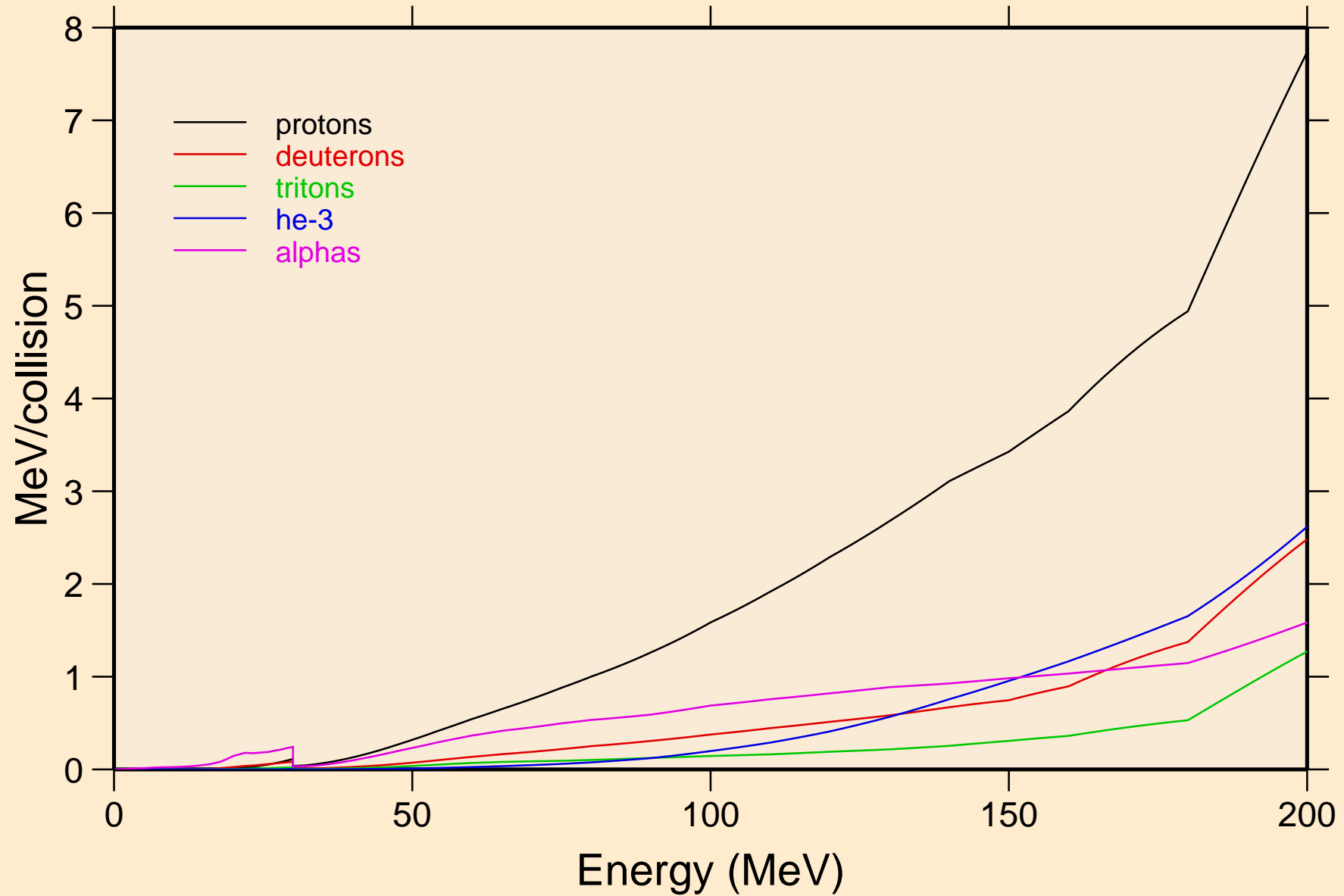


PU231 NRG TENDL-2015, AKONING  
14 MeV photon spectrum



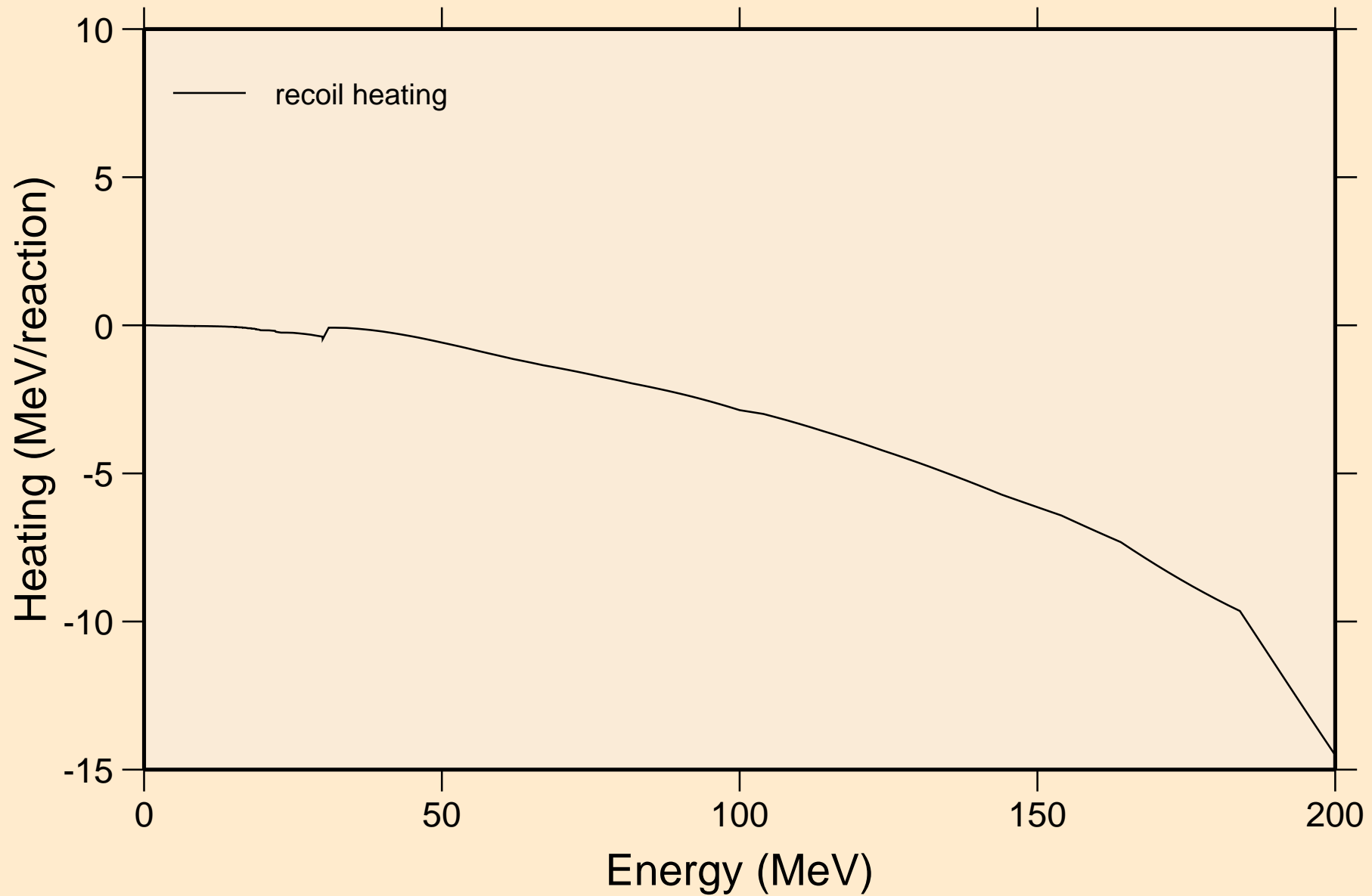
# PU231 NRG TENDL-2015, AKONING

## Particle heating contributions



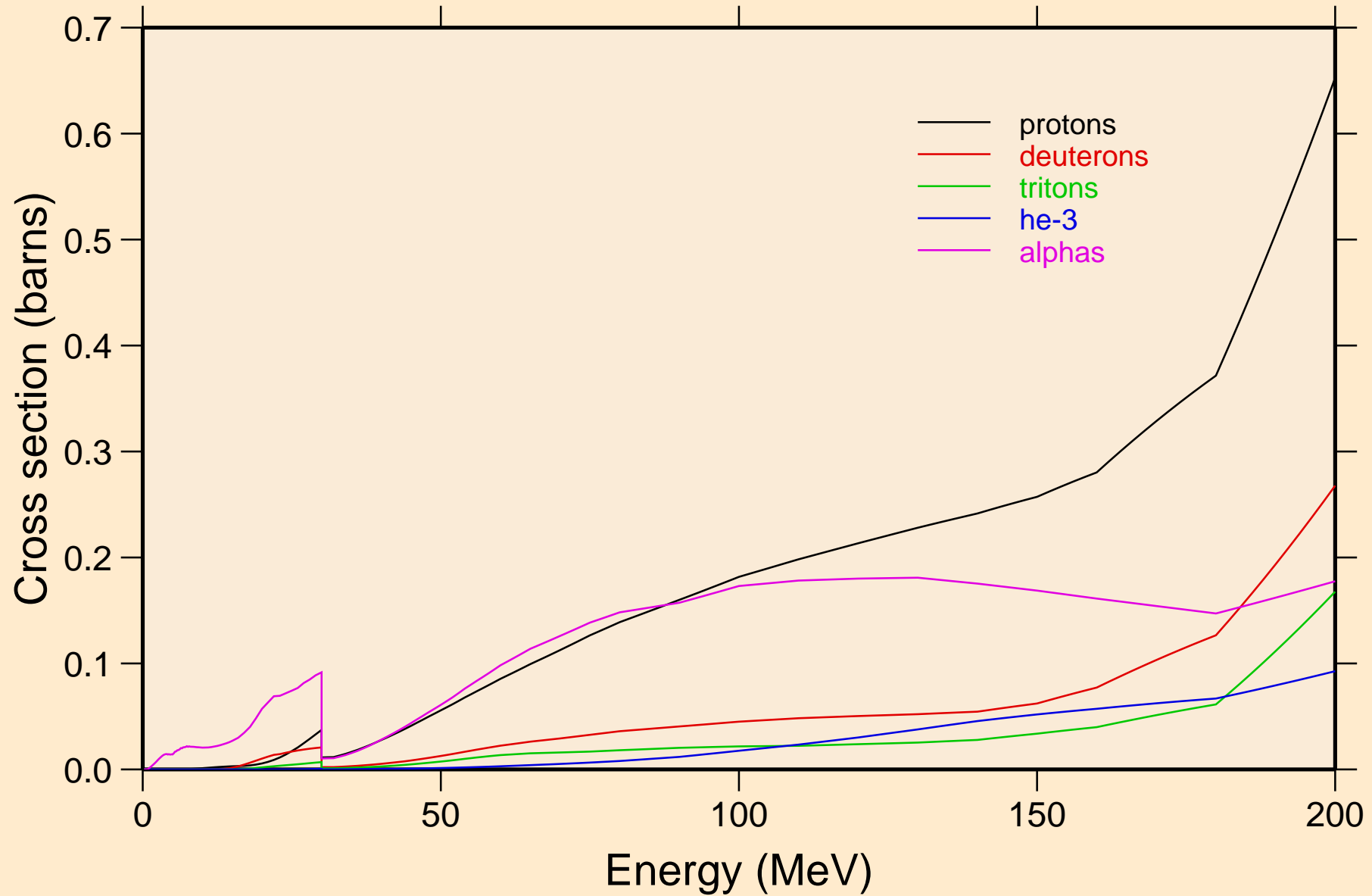
# PU231 NRG TENDL-2015, AKONING

## Recoil Heating

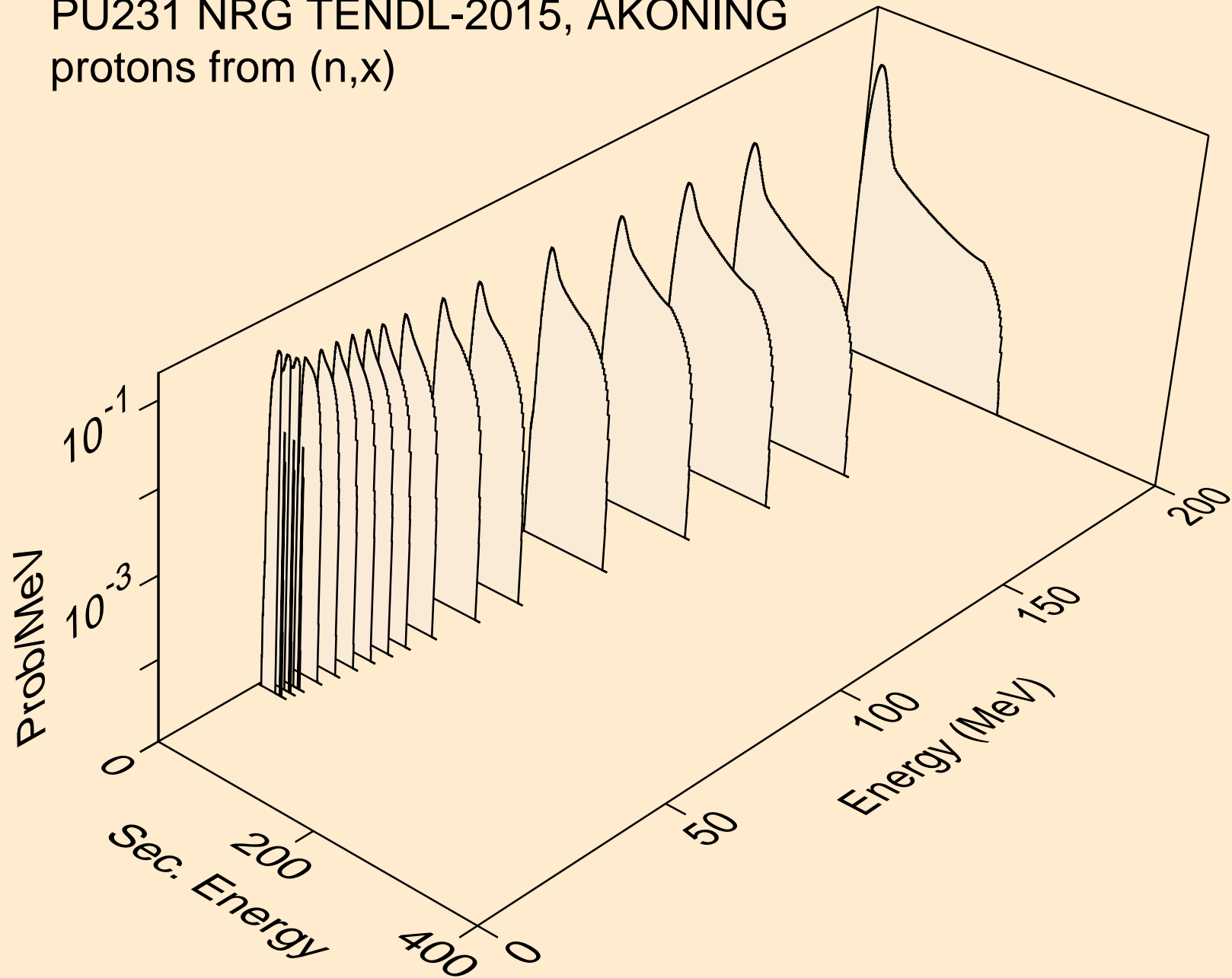


# PU231 NRG TENDL-2015, AKONING

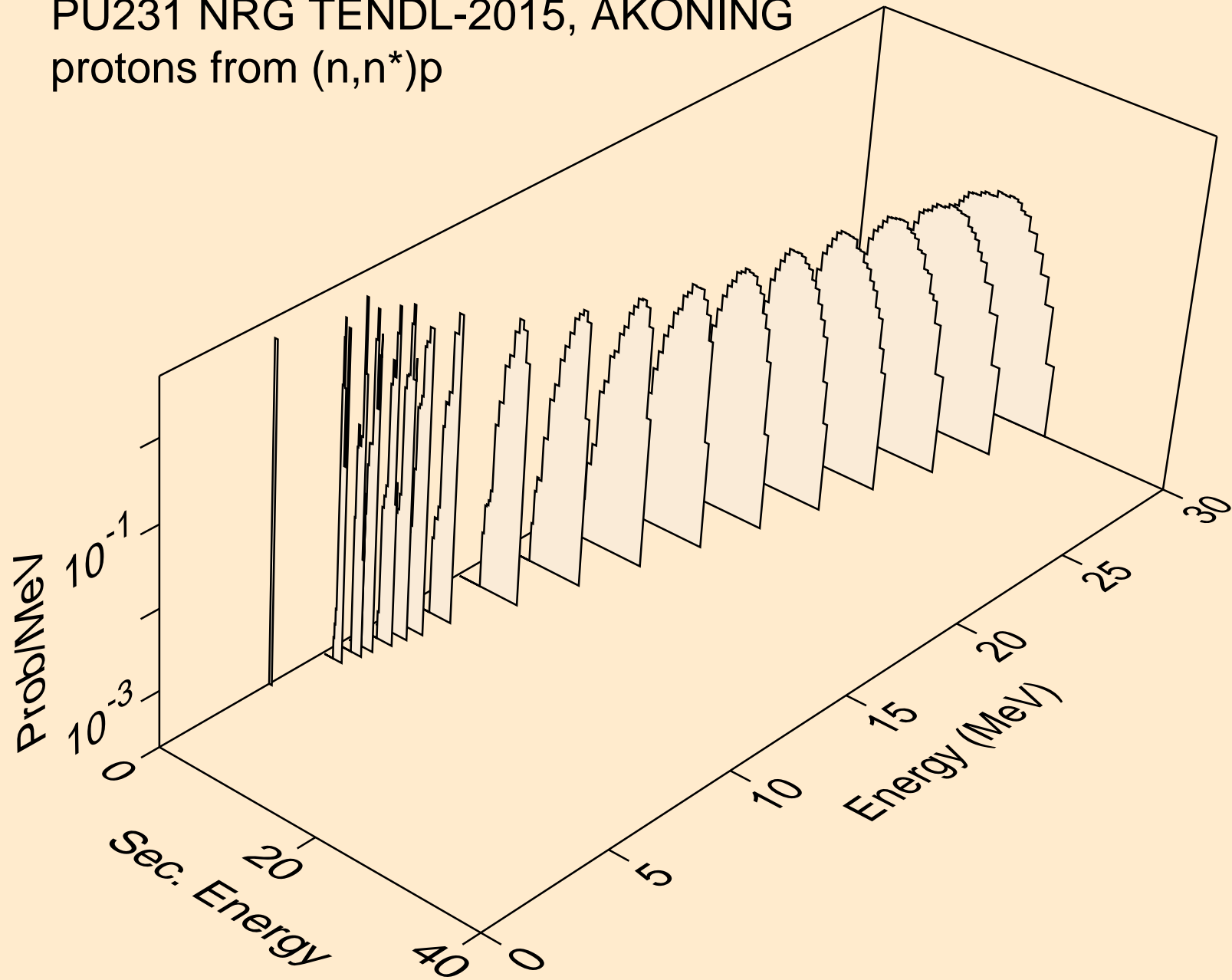
## Particle production cross sections



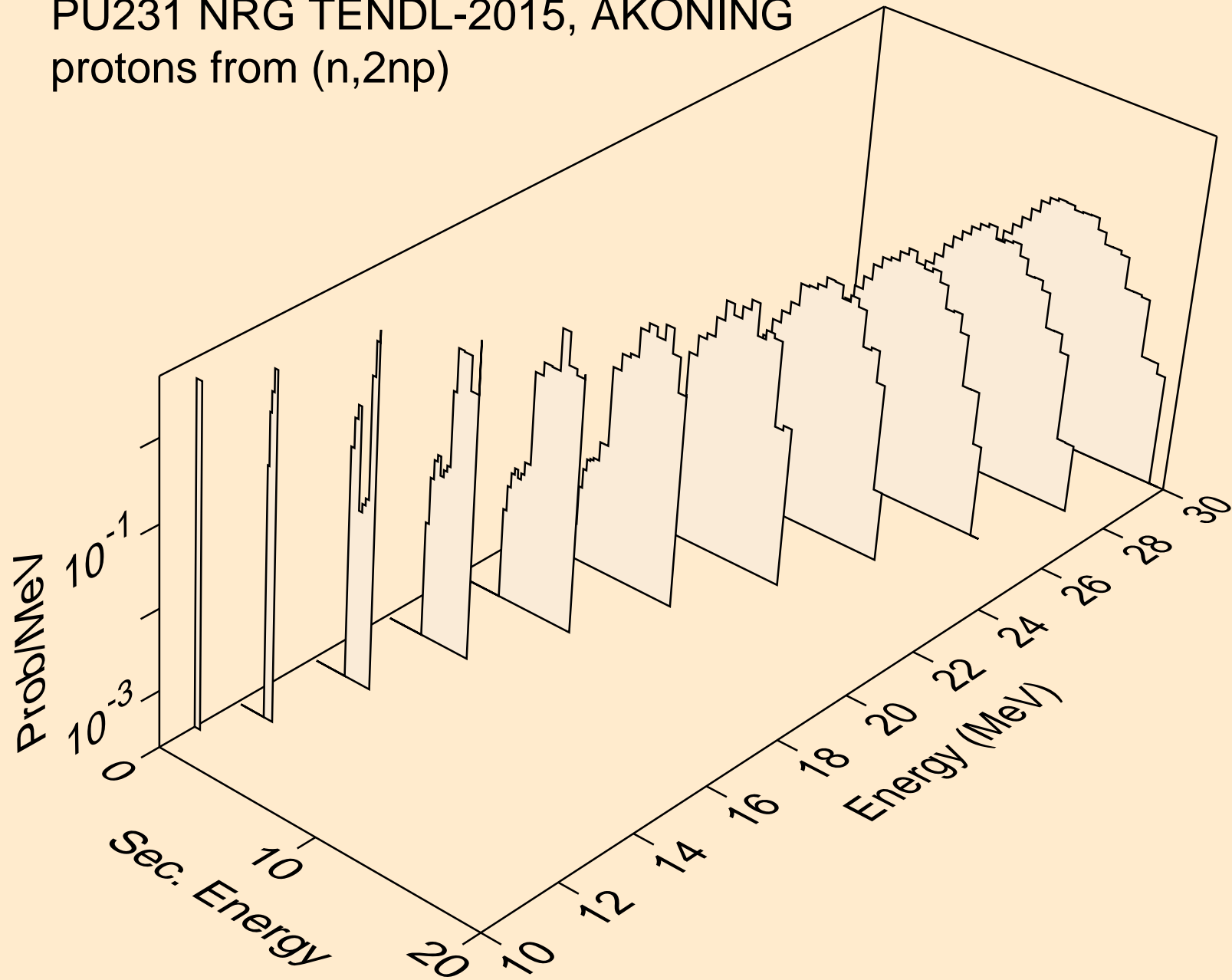
PU231 NRG TENDL-2015, AKONING  
protons from (n,x)



PU231 NRG TENDL-2015, AKONING  
protons from (n,n\*)p

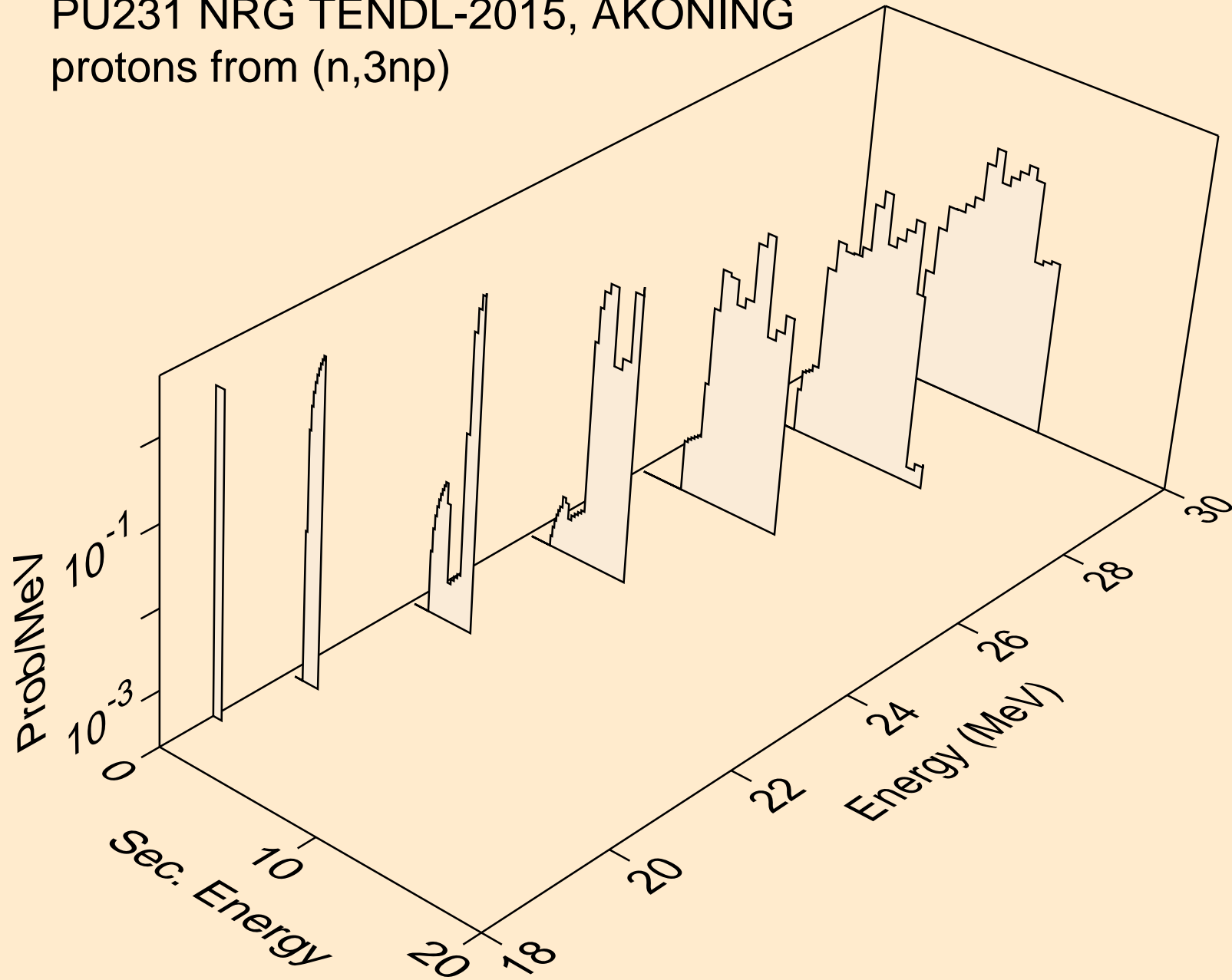


PU231 NRG TENDL-2015, AKONING  
protons from (n,2np)

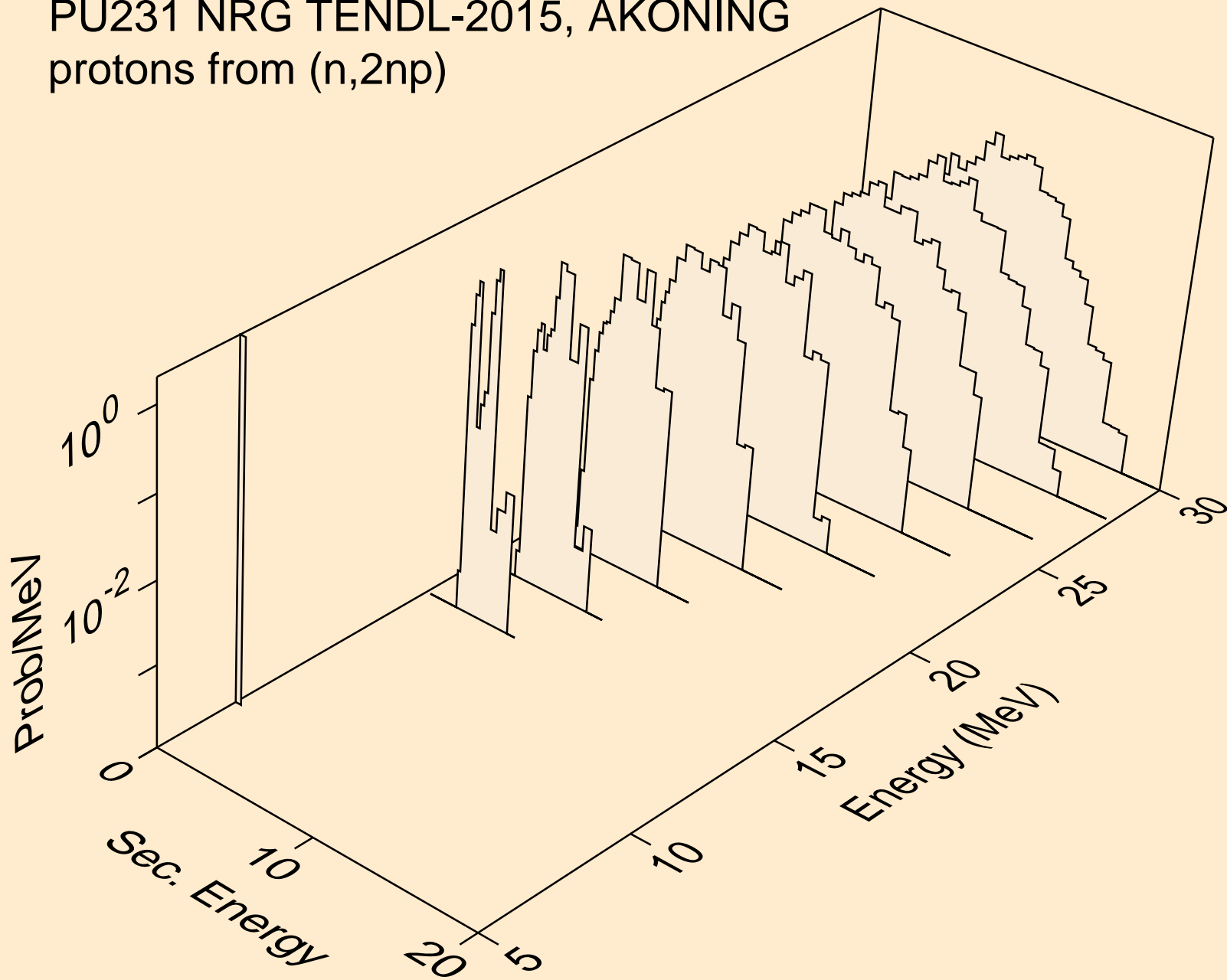




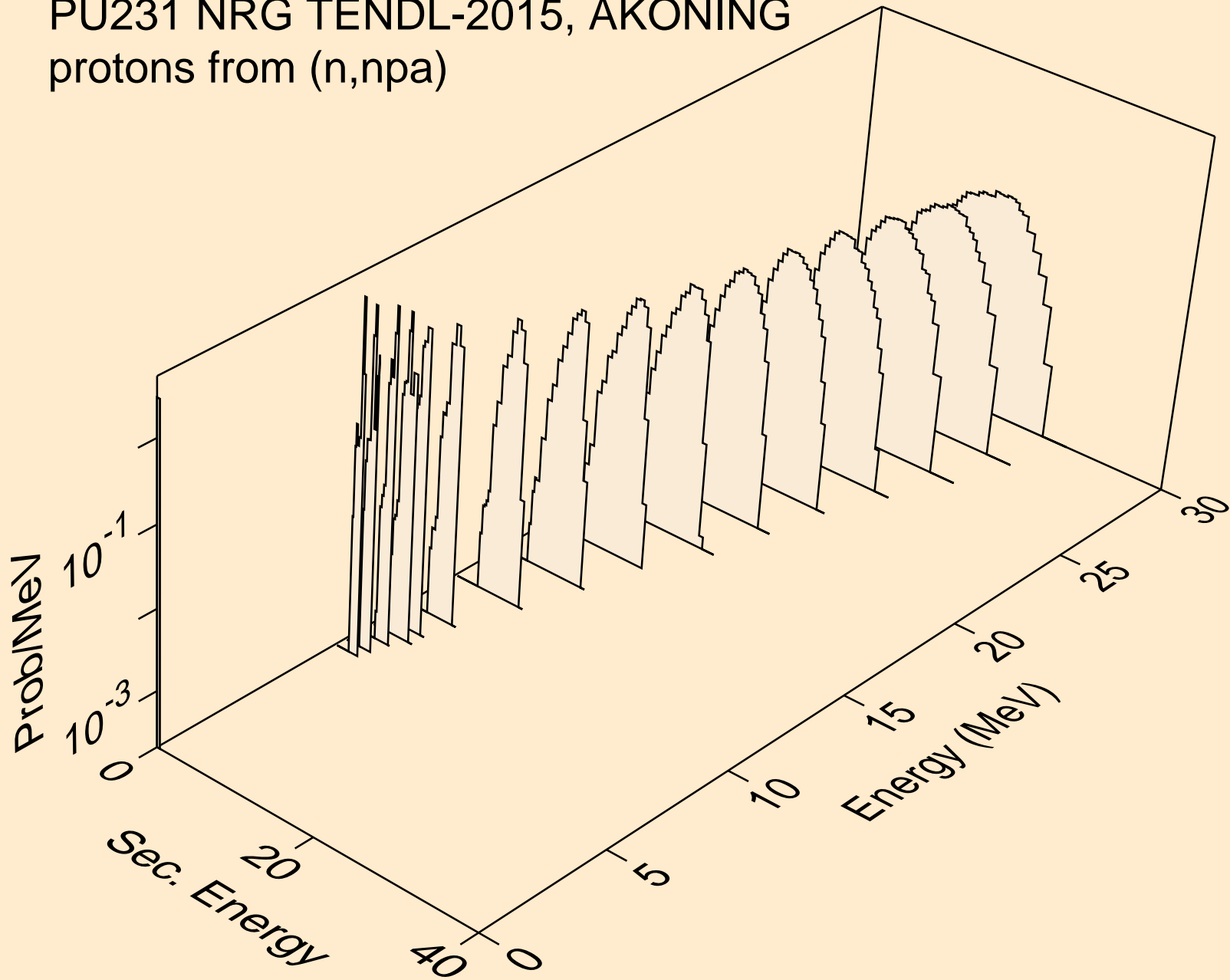
PU231 NRG TENDL-2015, AKONING  
protons from (n,3np)



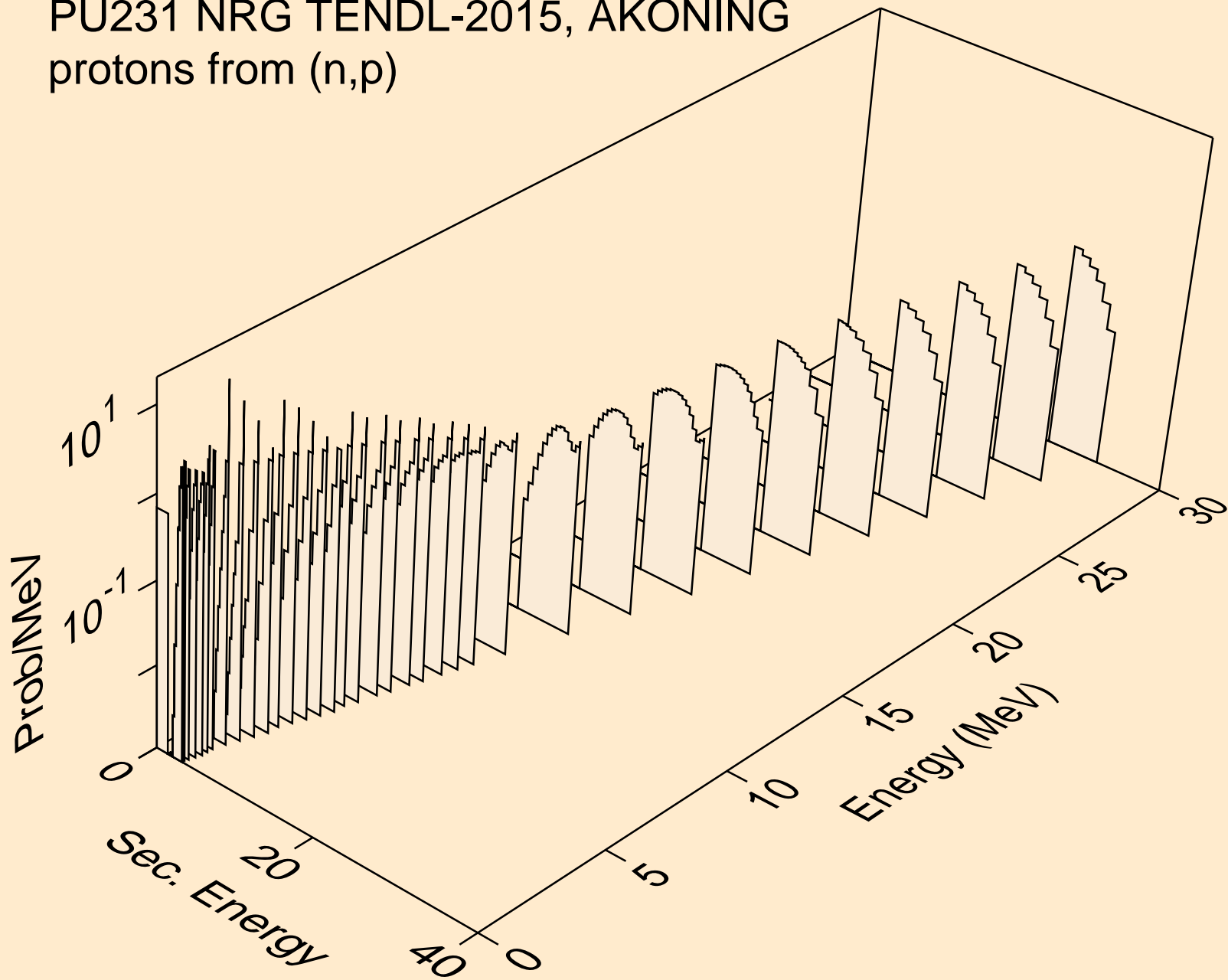
PU231 NRG TENDL-2015, AKONING  
protons from (n,2np)



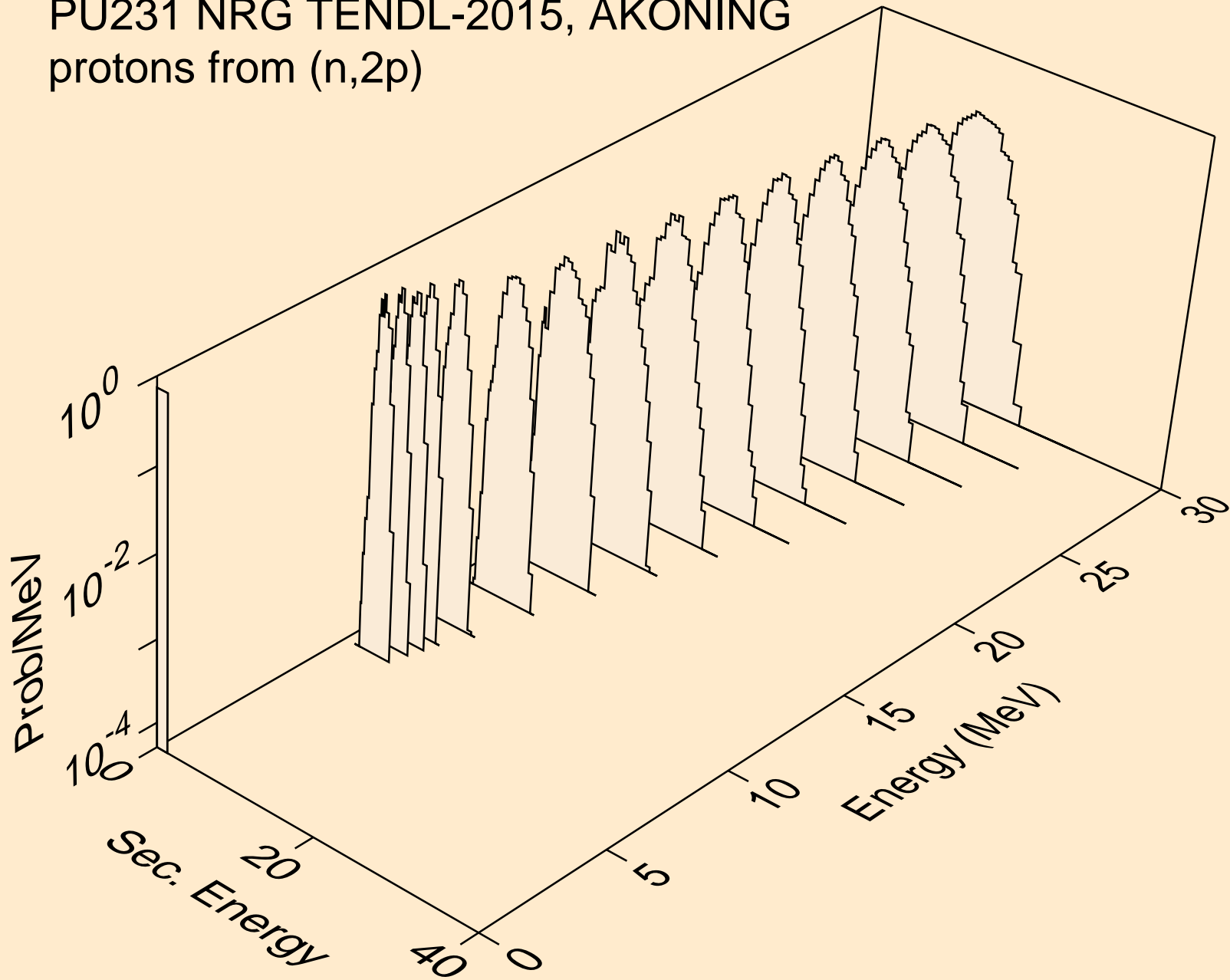
PU231 NRG TENDL-2015, AKONING  
protons from (n,npa)



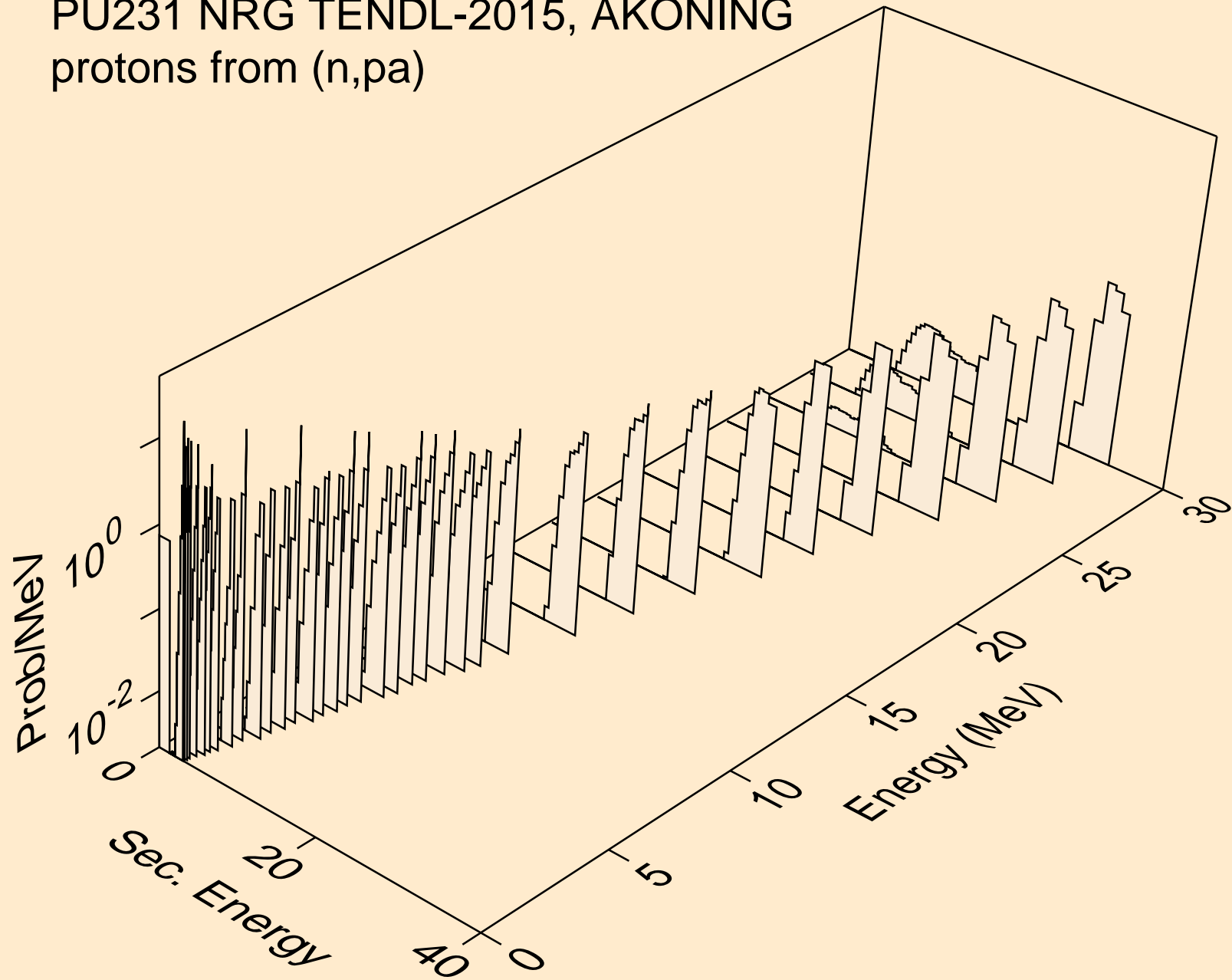
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protons from (n,p)



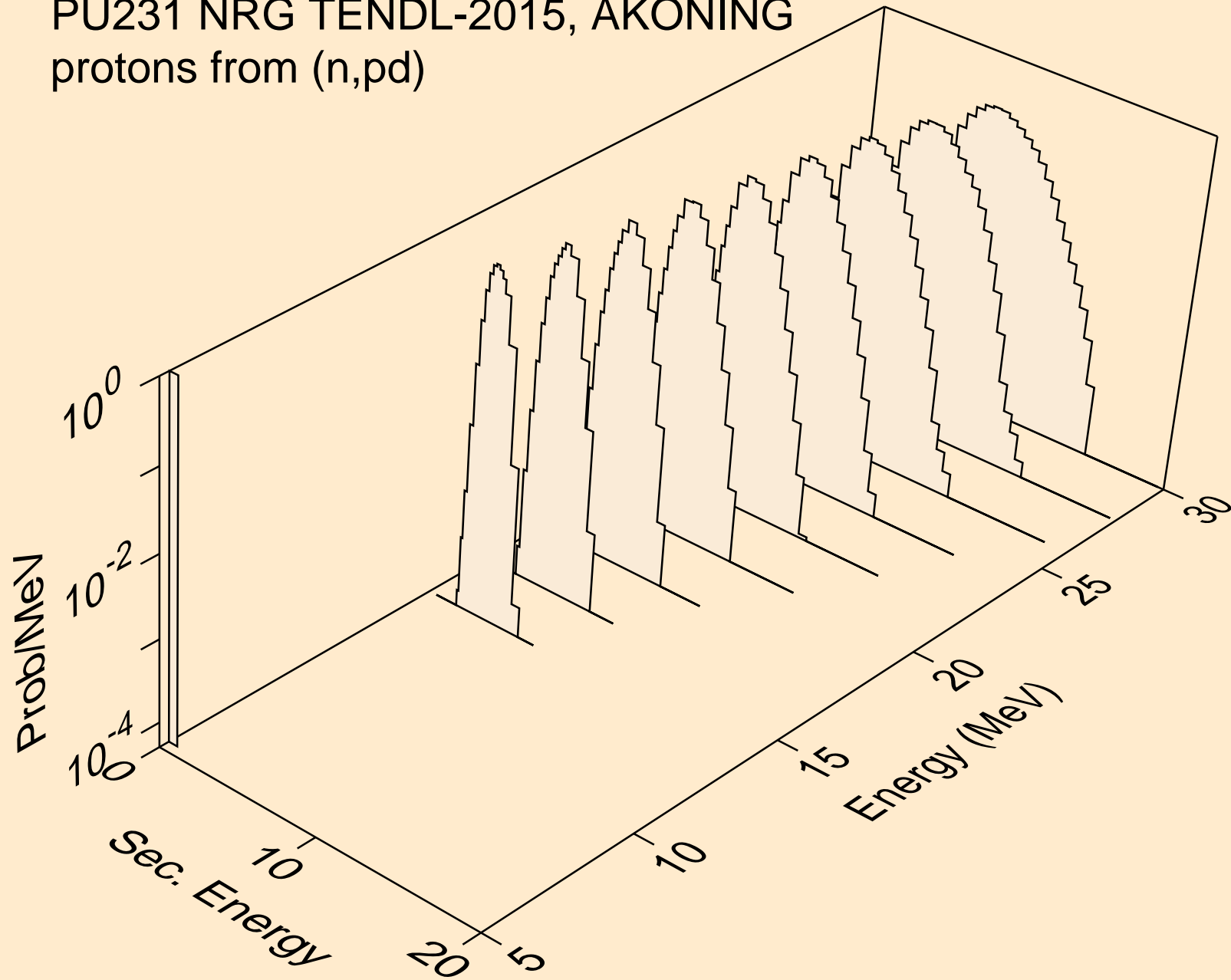
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protons from (n,2p)



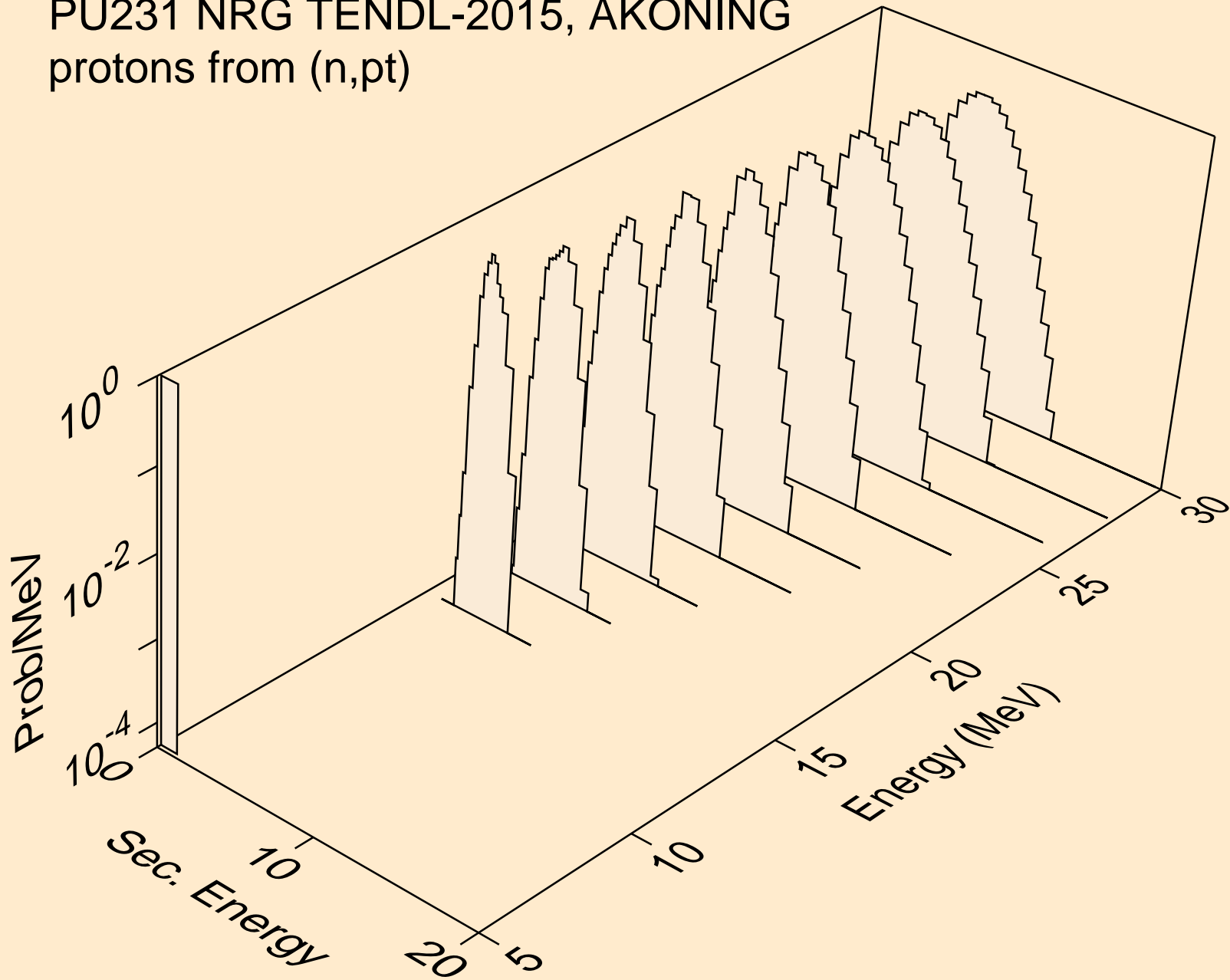
PU231 NRG TENDL-2015, AKONING  
protons from (n,pa)



PU231 NRG TENDL-2015, AKONING  
protons from (n,pd)

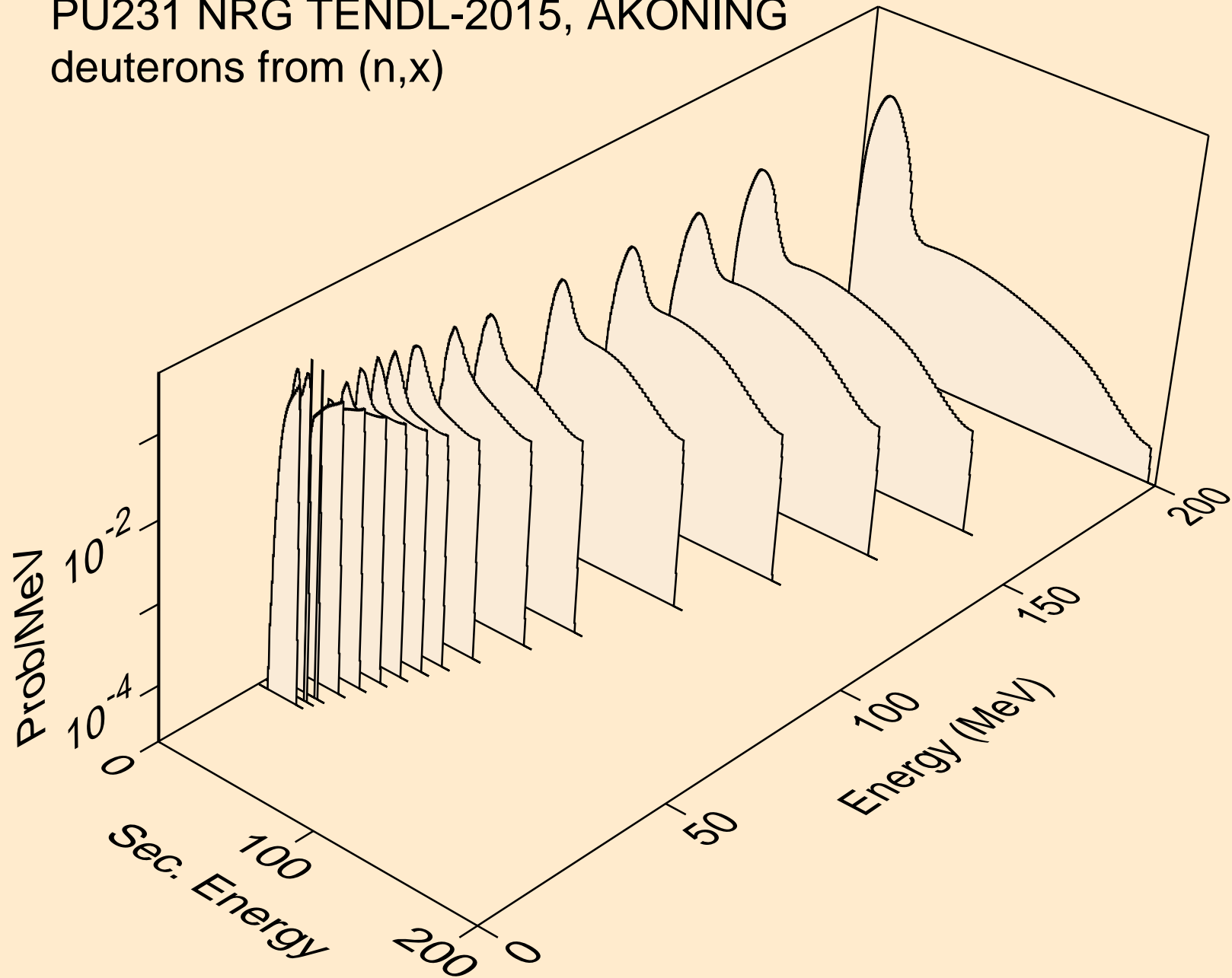


PU231 NRG TENDL-2015, AKONING  
protons from (n,pt)

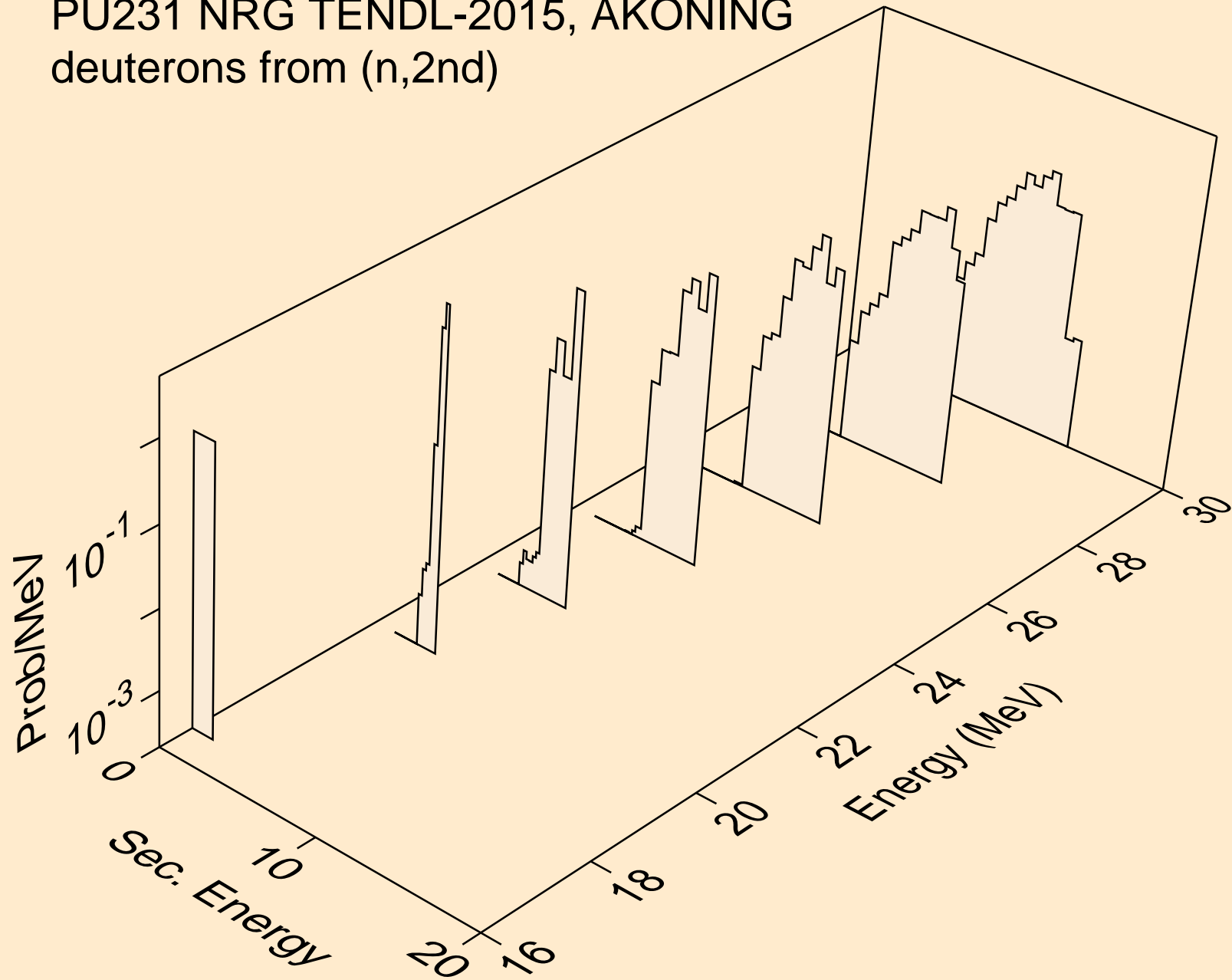




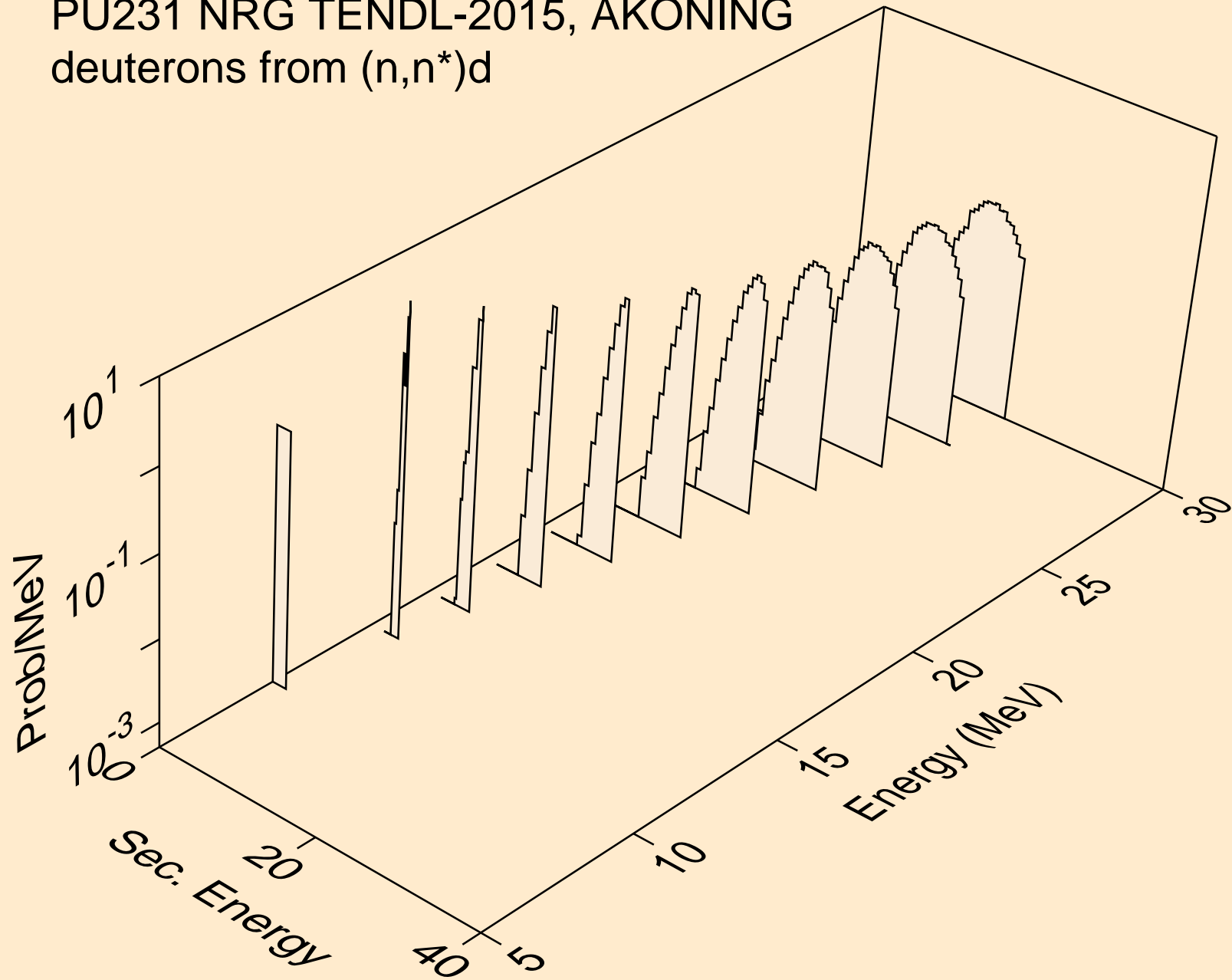
PU231 NRG TENDL-2015, AKONING  
deuterons from (n,x)



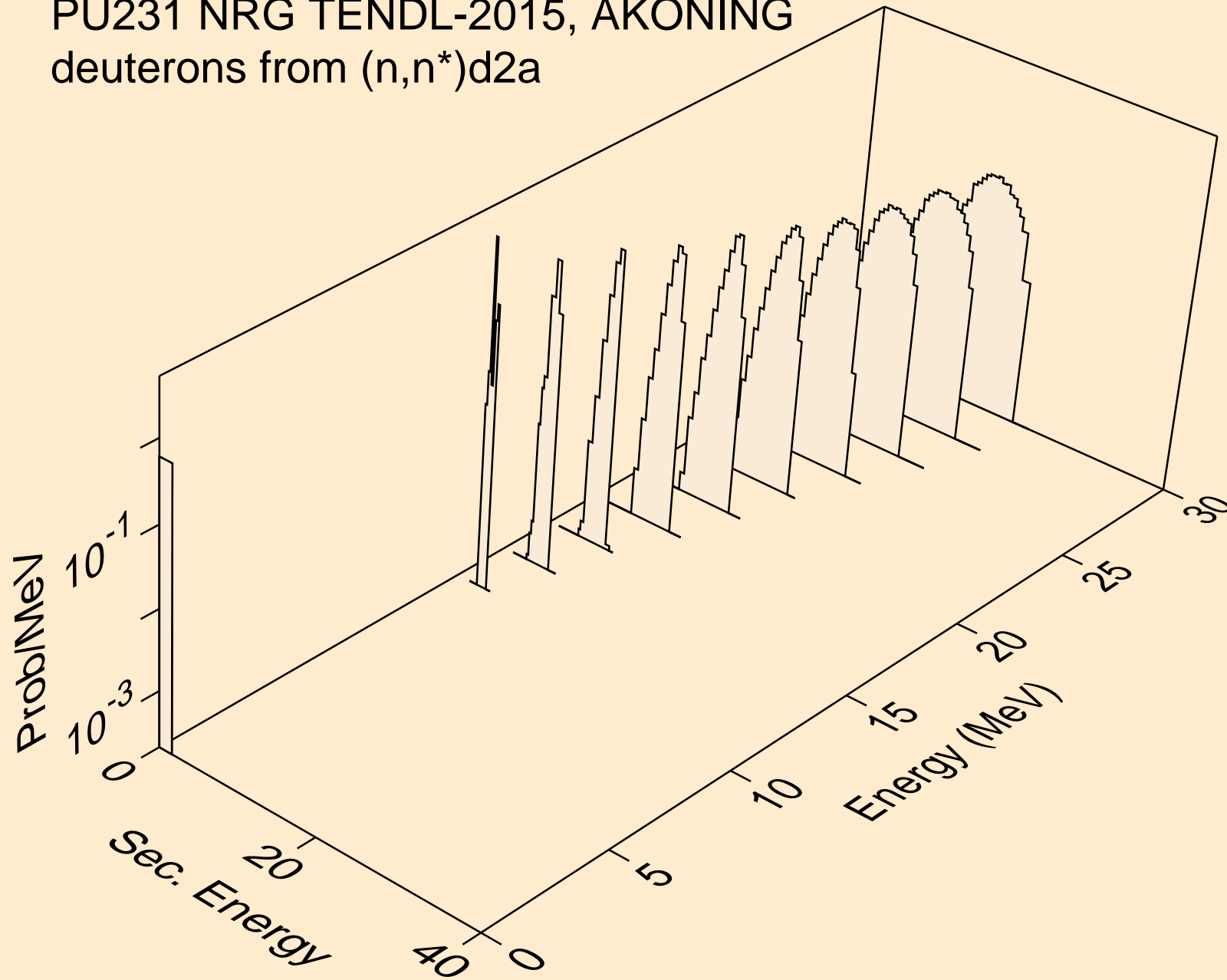
PU231 NRG TENDL-2015, AKONING  
deuterons from (n,2nd)



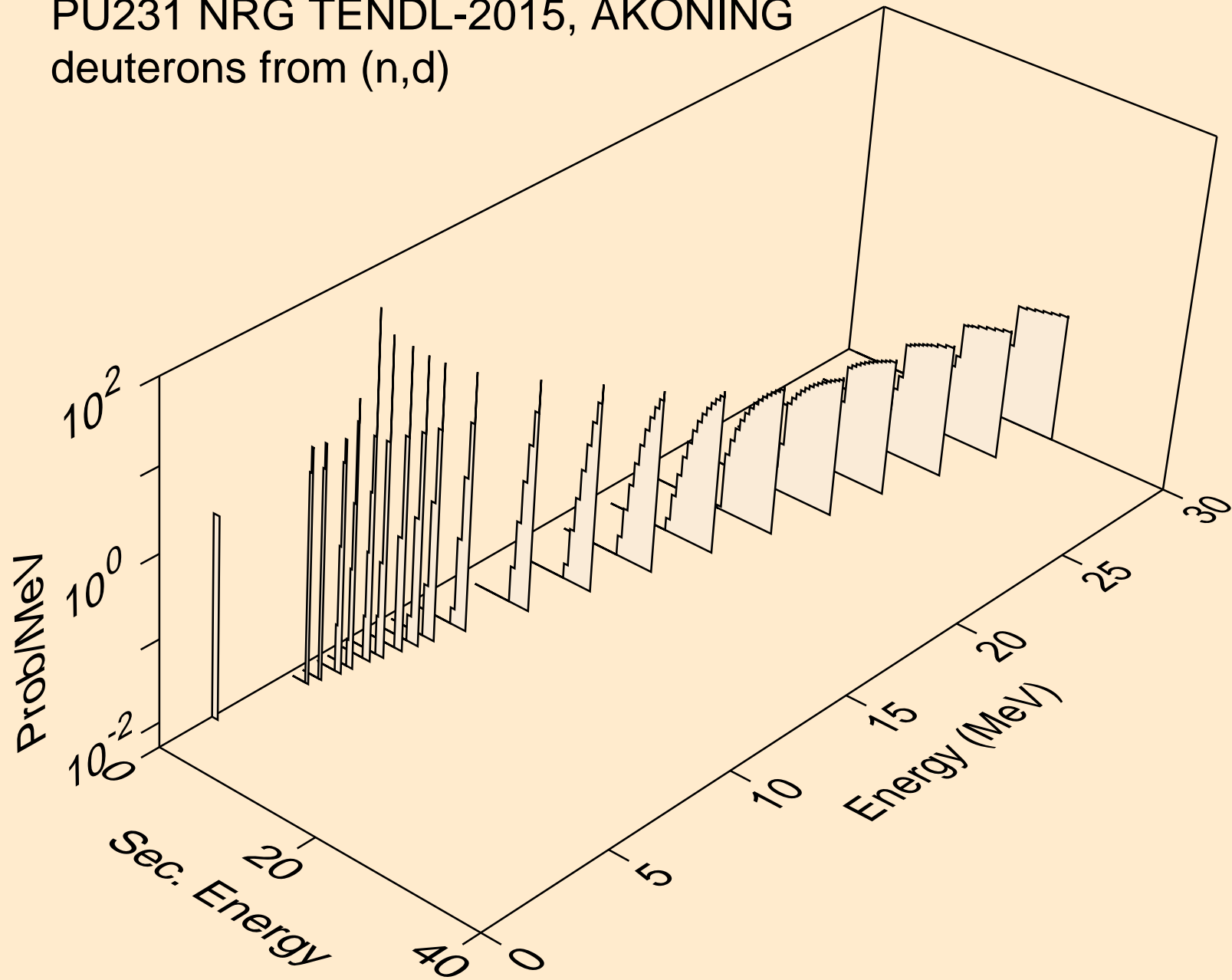
PU231 NRG TENDL-2015, AKONING  
deuterons from (n,n\*)d



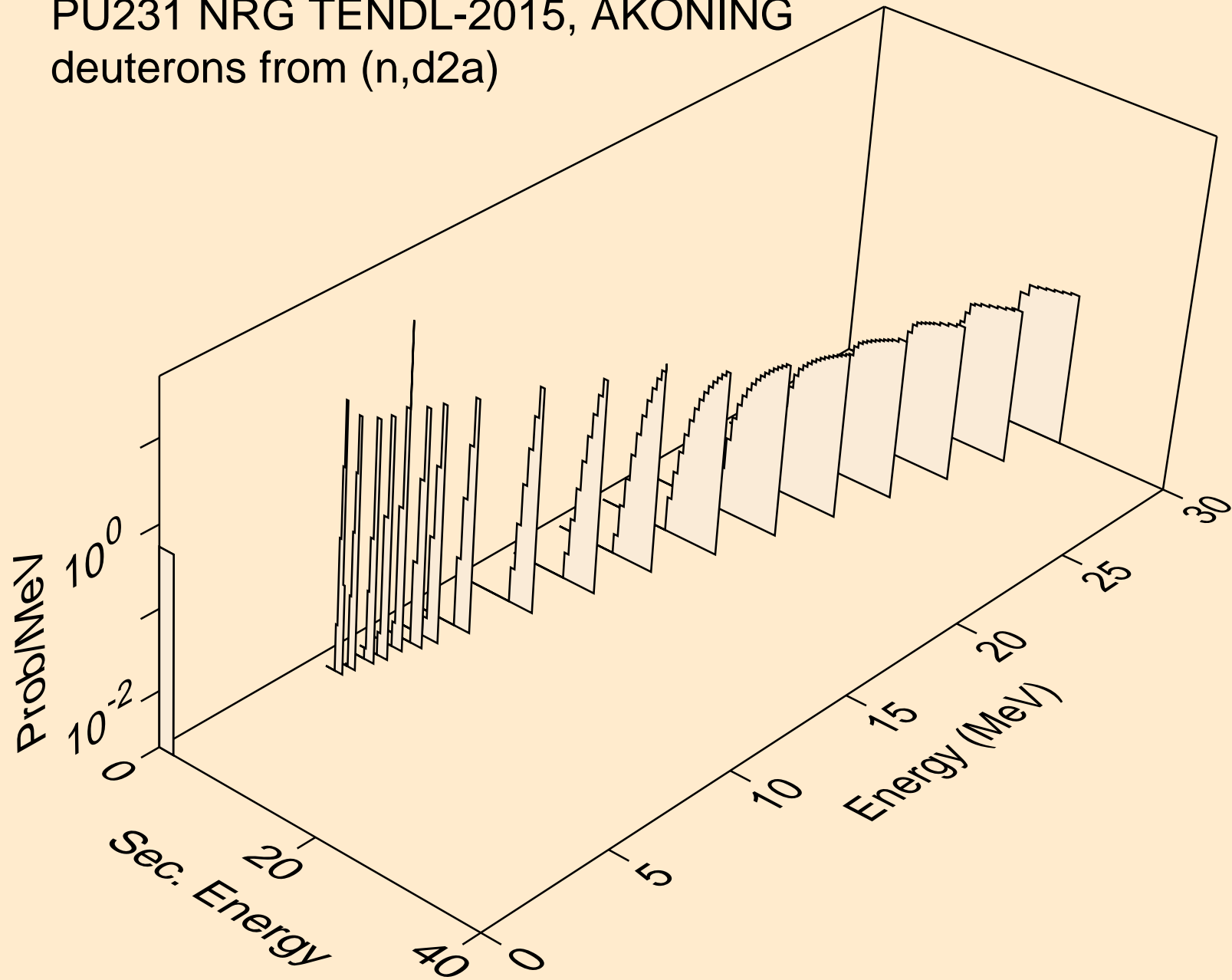
PU231 NRG TENDL-2015, AKONING  
deuterons from (n,n\*)d2a



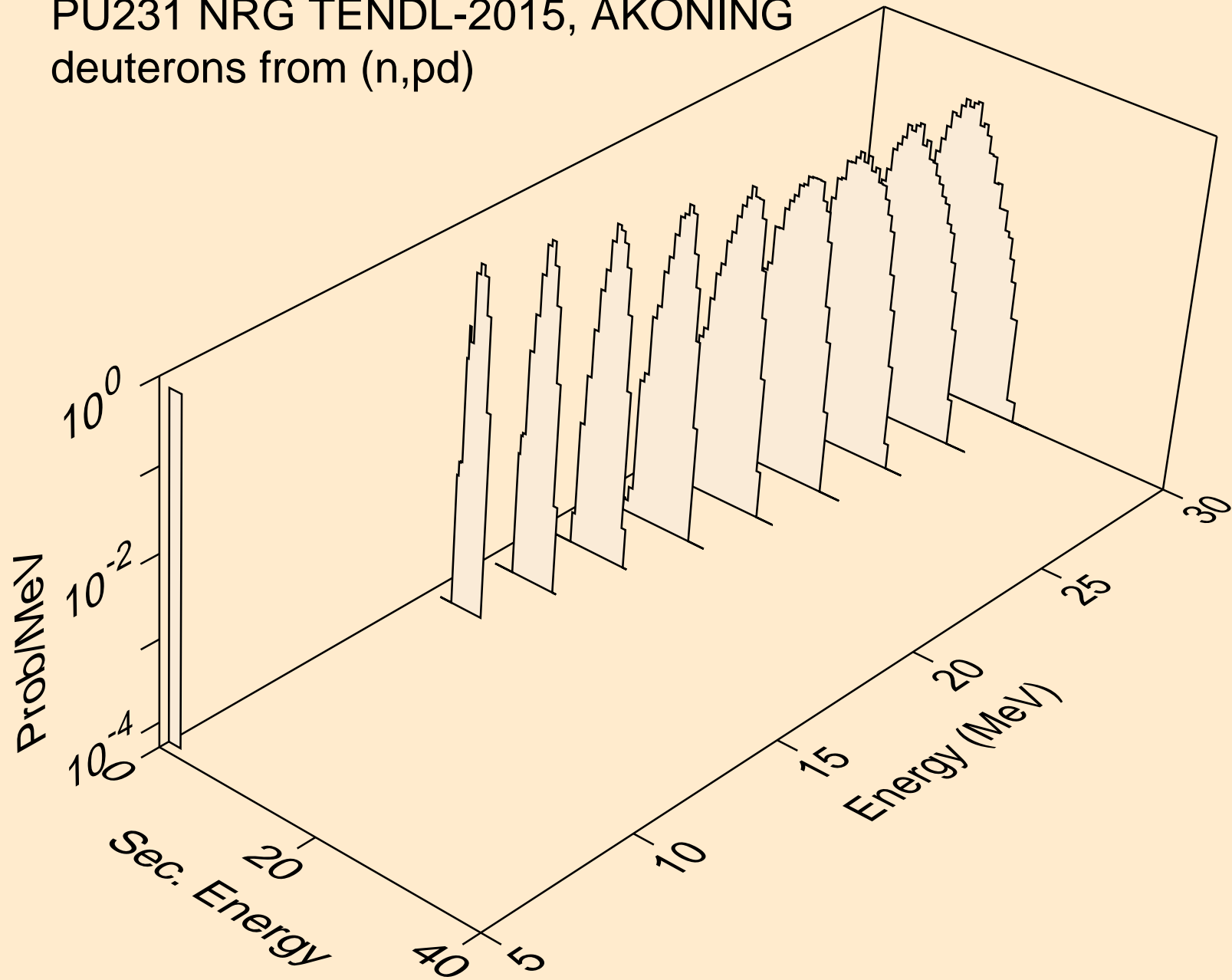
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deuterons from (n,d)



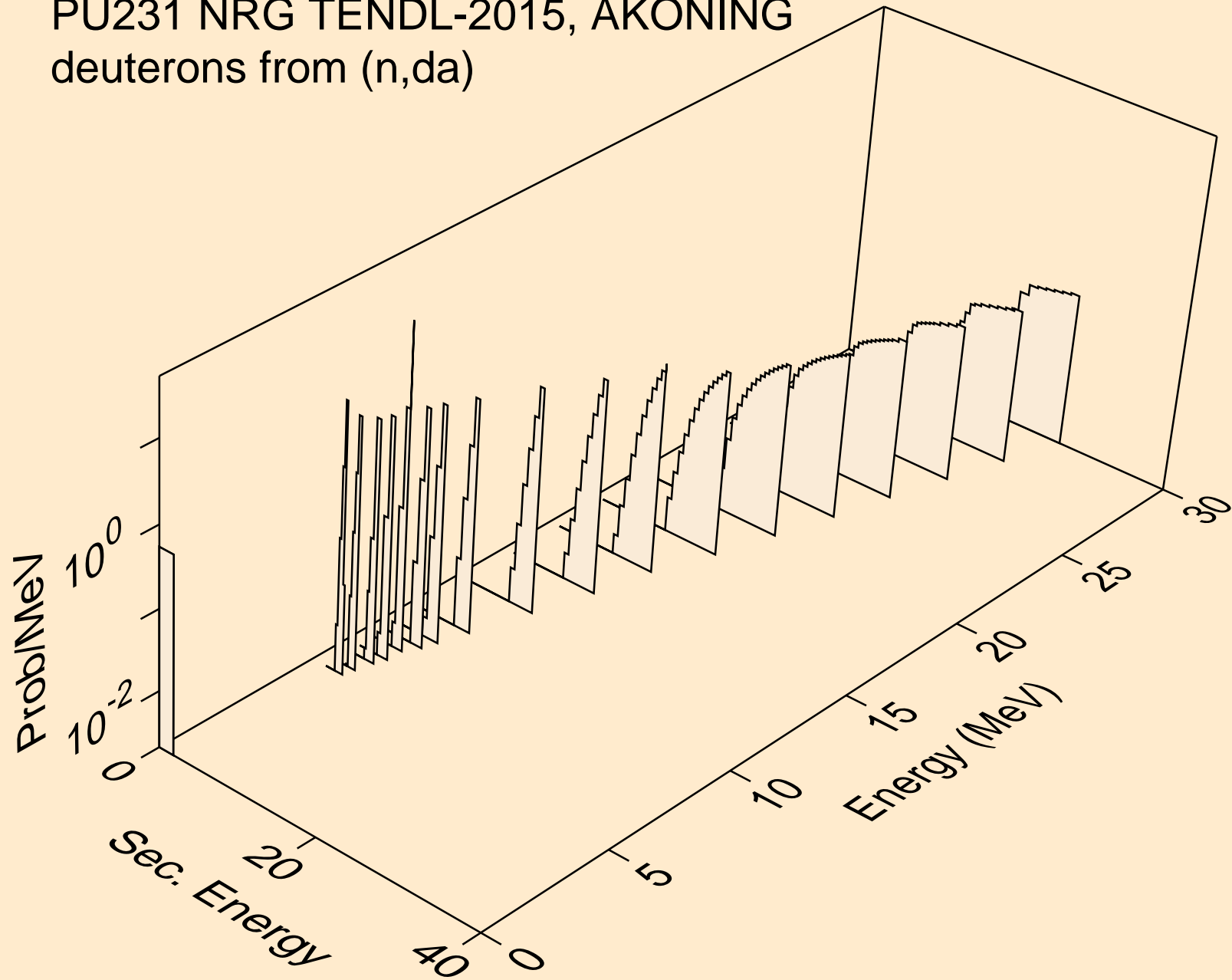
PU231 NRG TENDL-2015, AKONING  
deuterons from (n,d2a)



PU231 NRG TENDL-2015, AKONING  
deuterons from (n,pd)

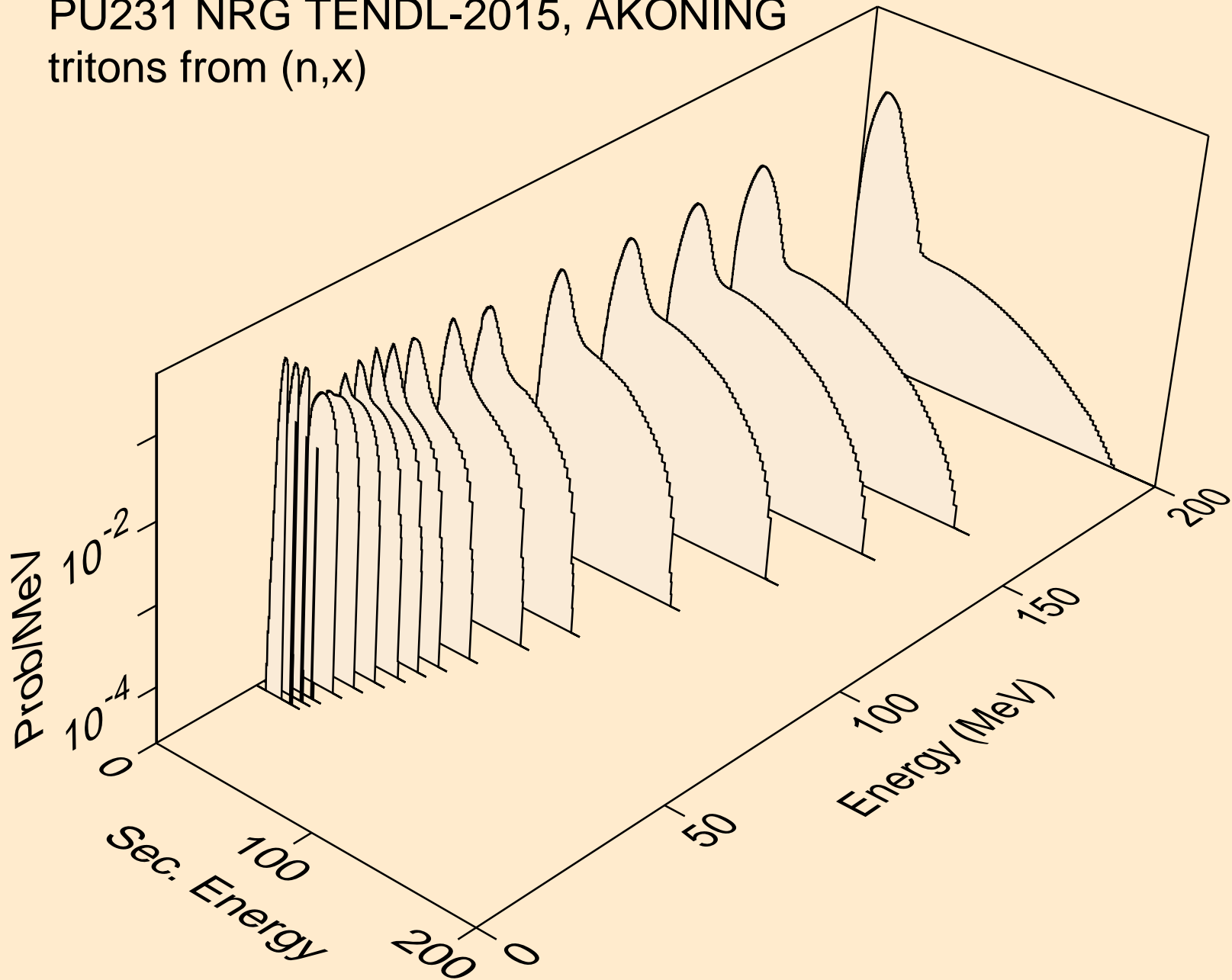


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deuterons from (n,da)

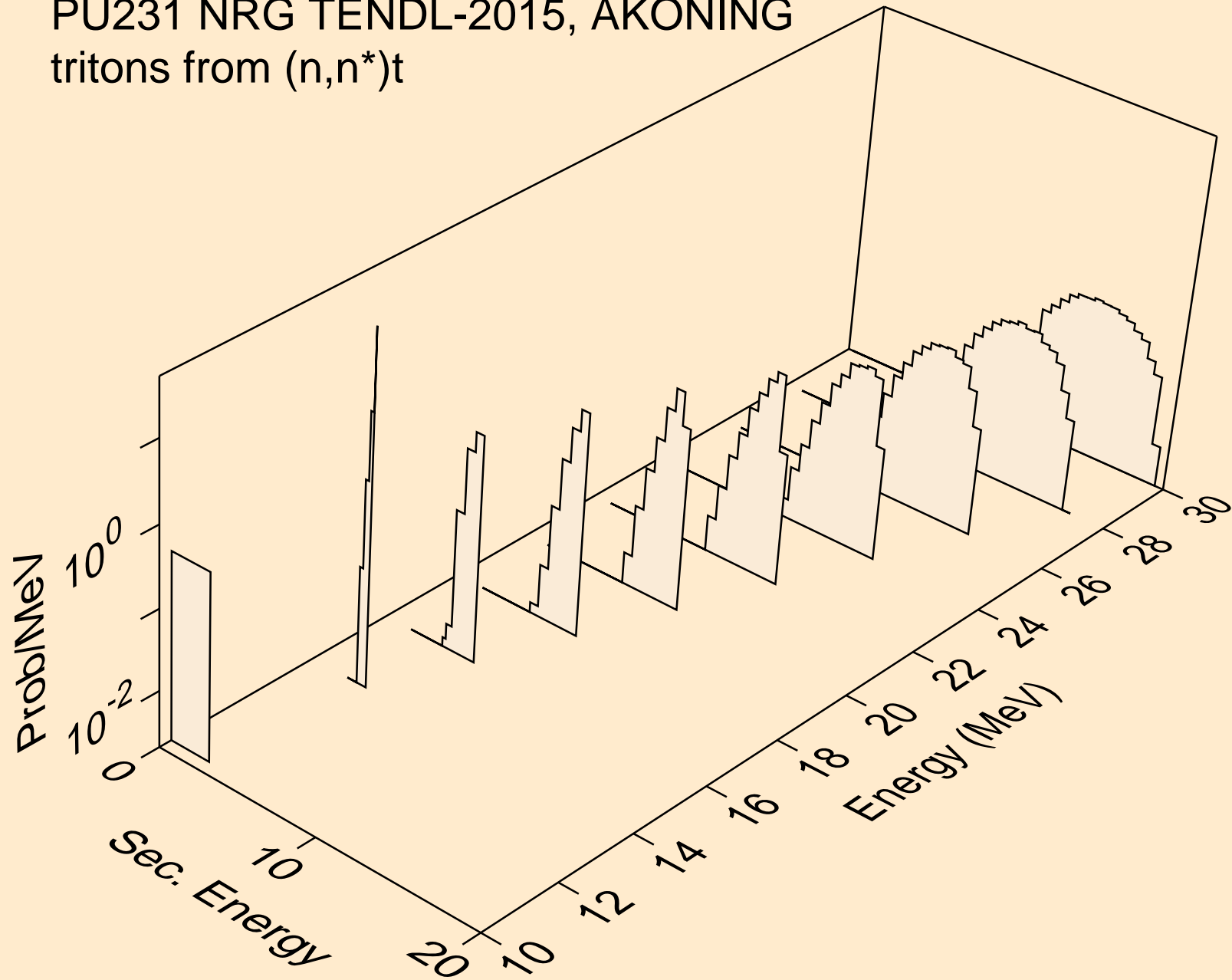




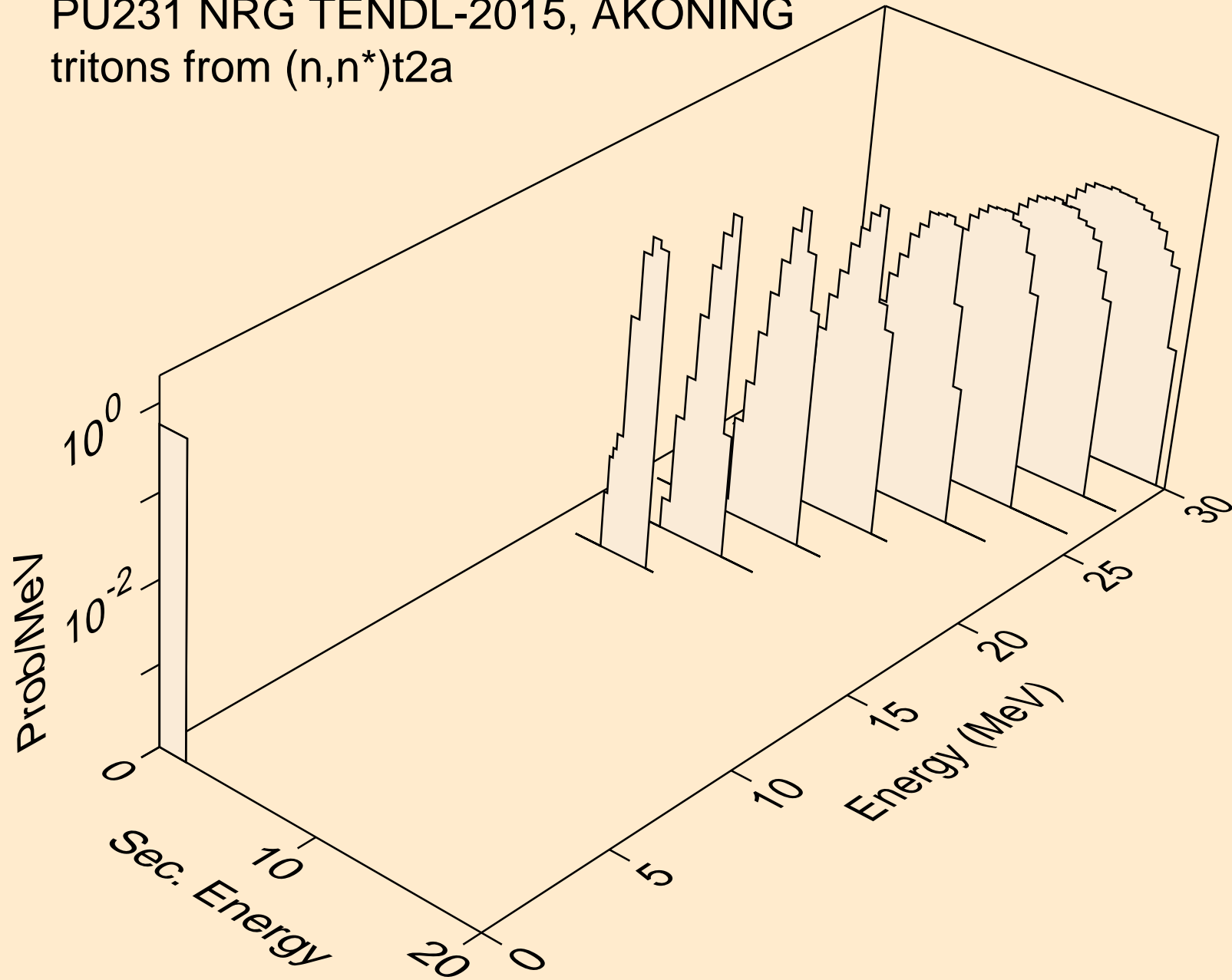
PU231 NRG TENDL-2015, AKONING  
tritons from (n,x)



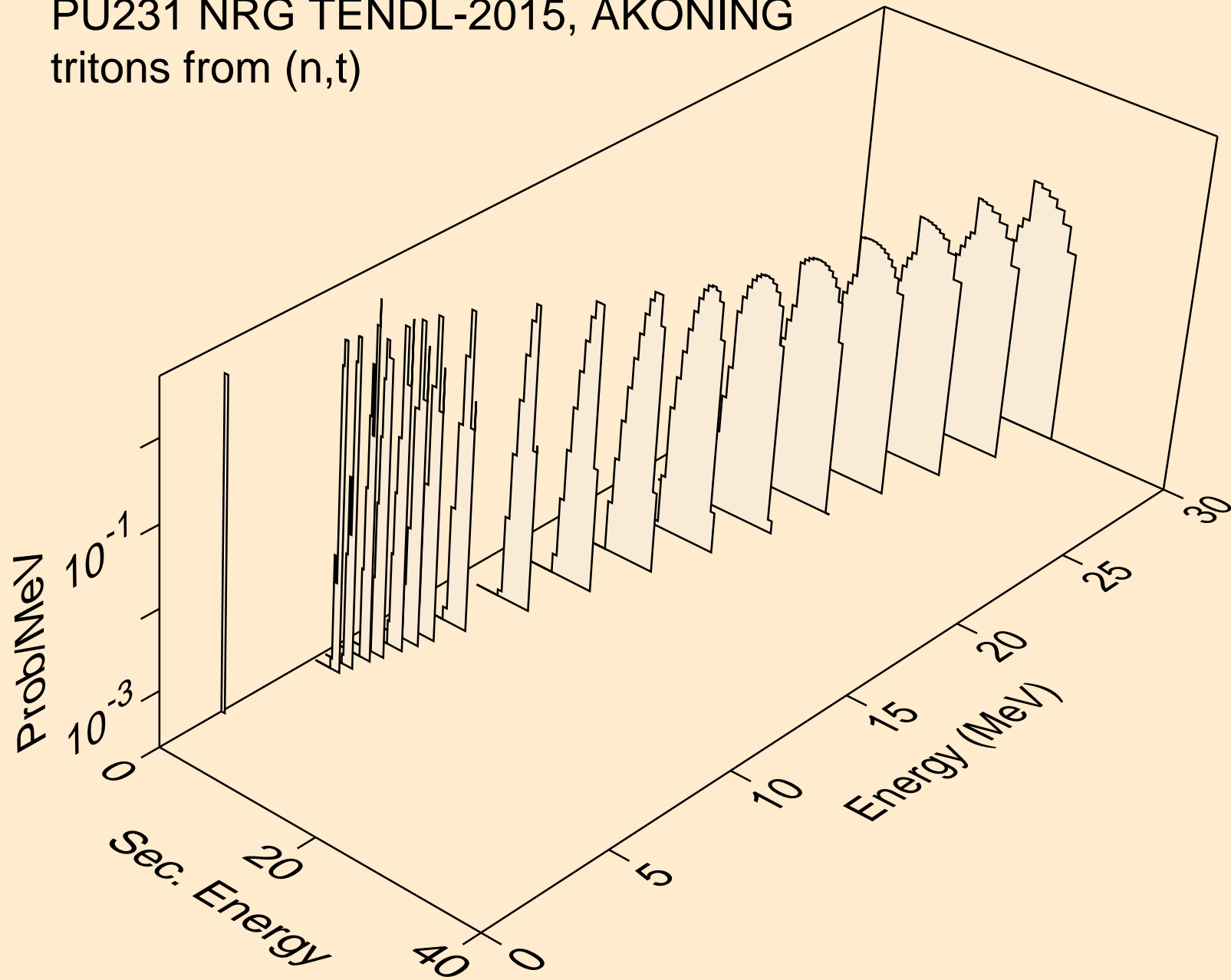
PU231 NRG TENDL-2015, AKONING  
tritons from (n,n\*)t



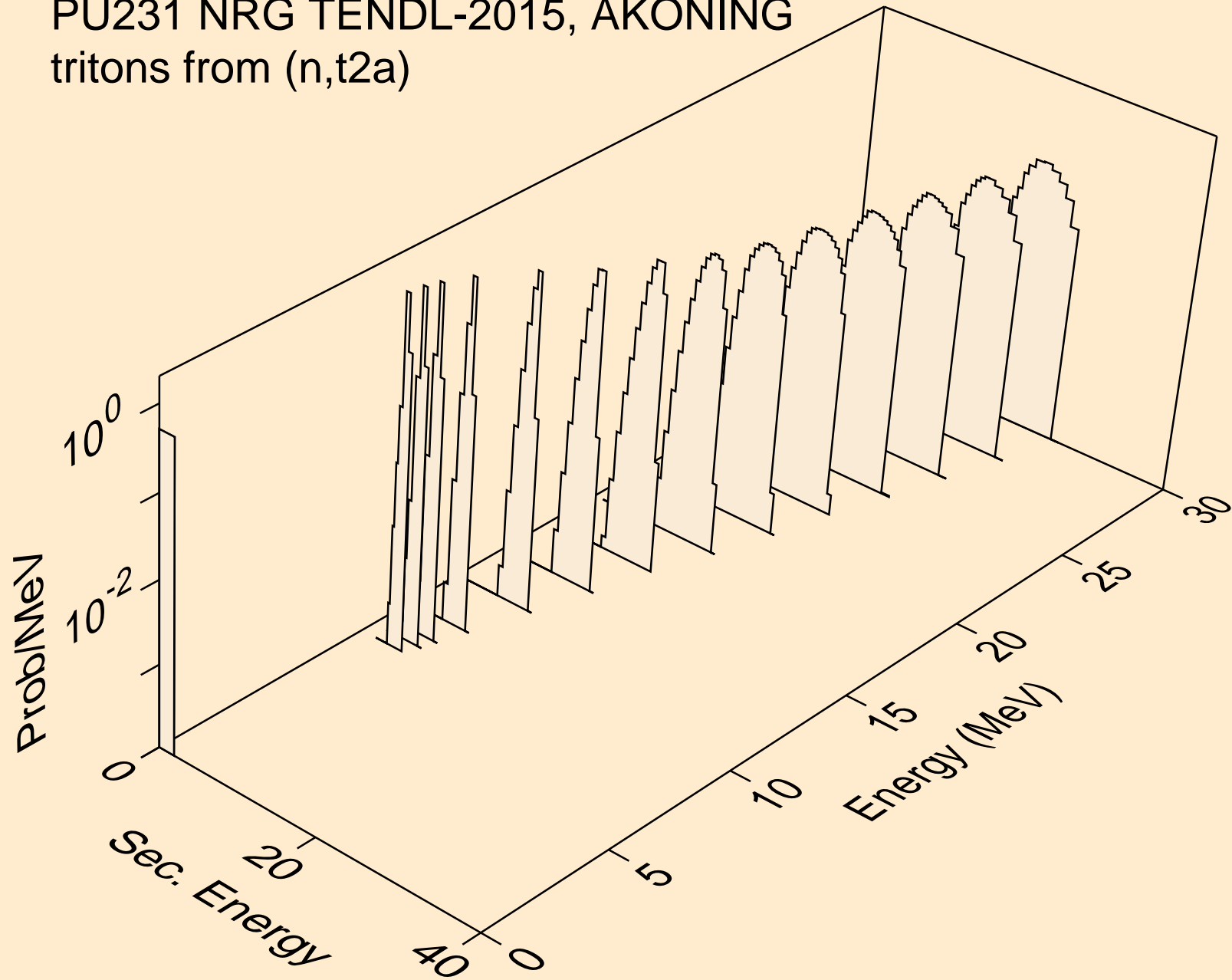
PU231 NRG TENDL-2015, AKONING  
tritons from (n,n\*)t2a



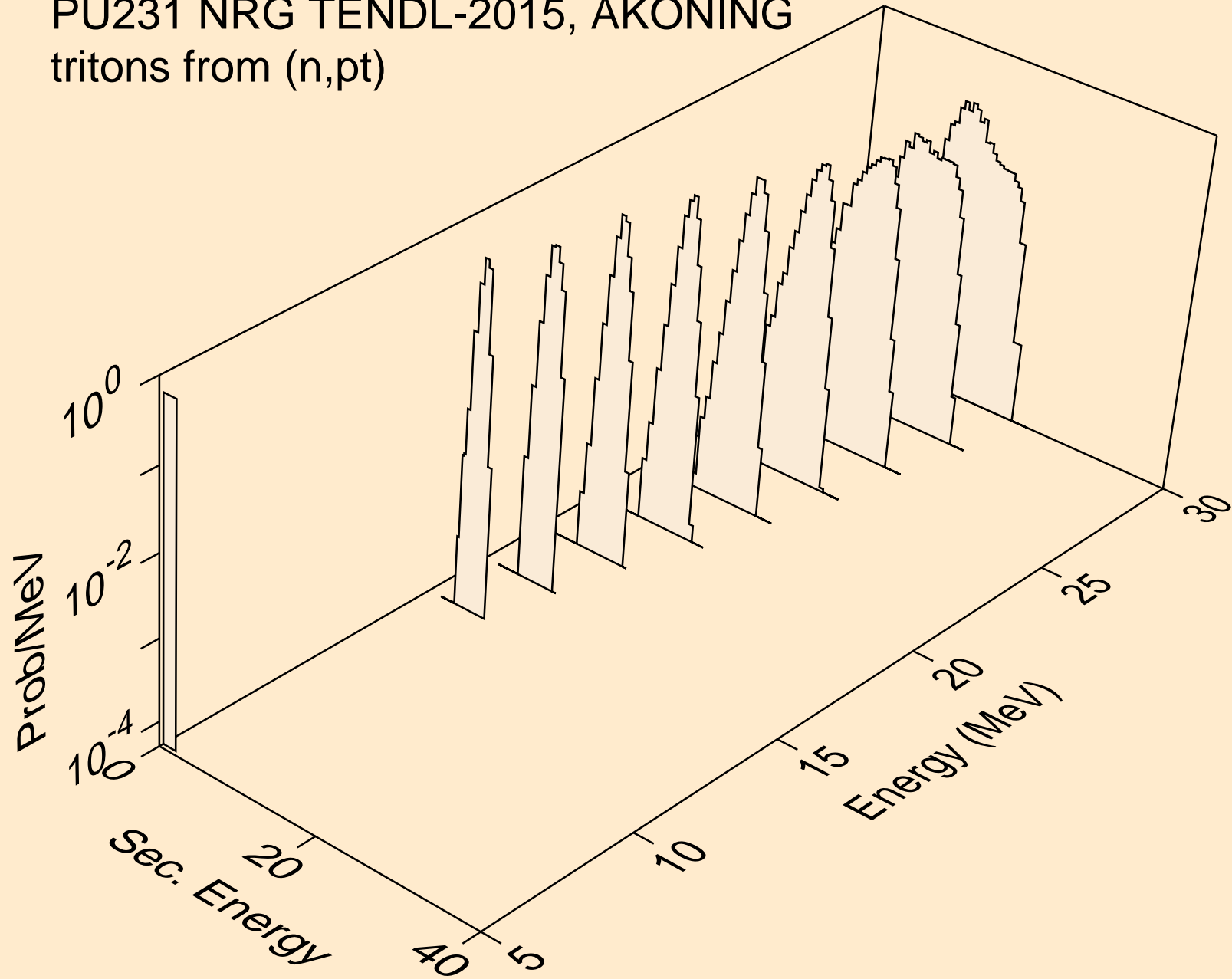
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tritons from (n,t)



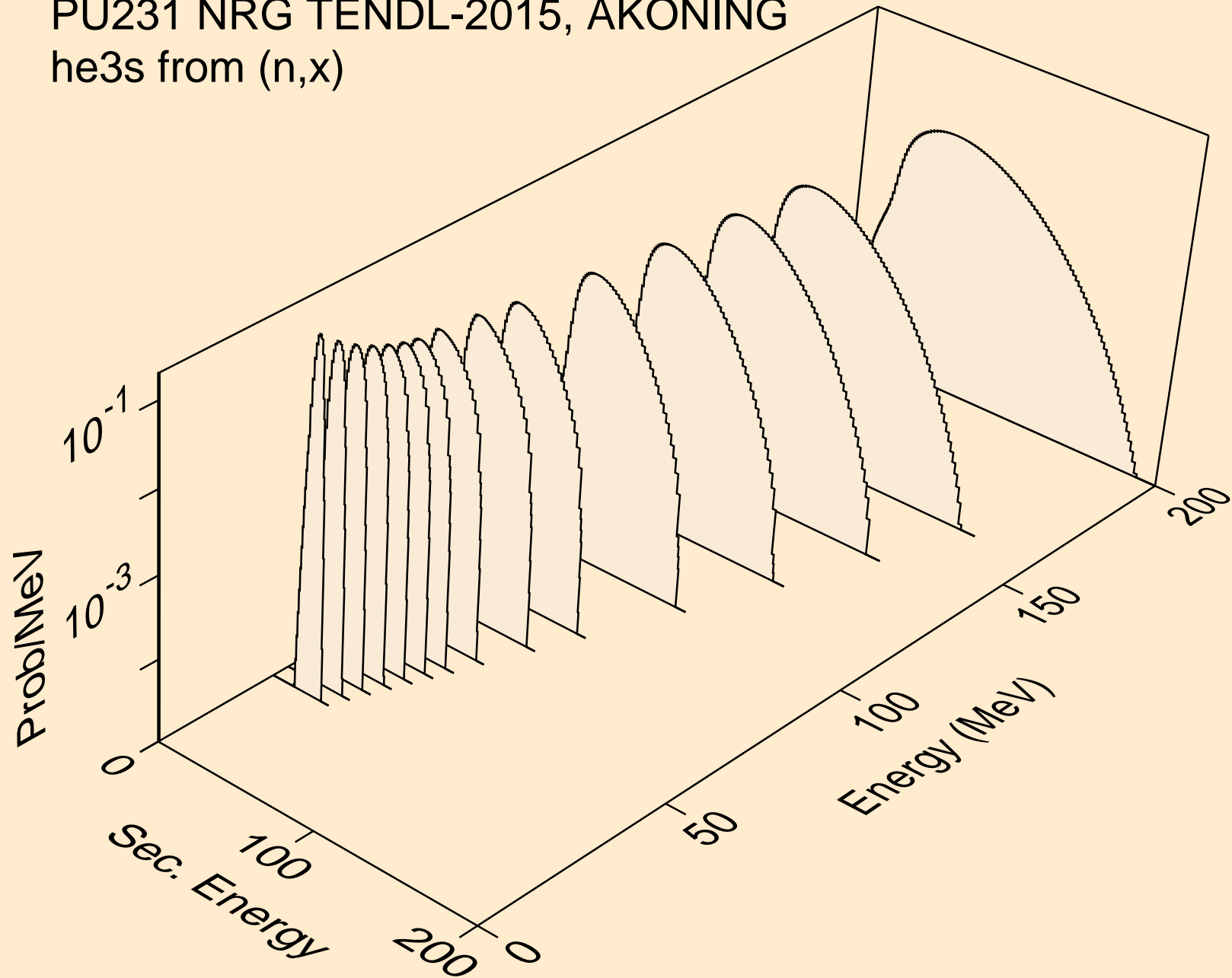
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tritons from (n,t2a)



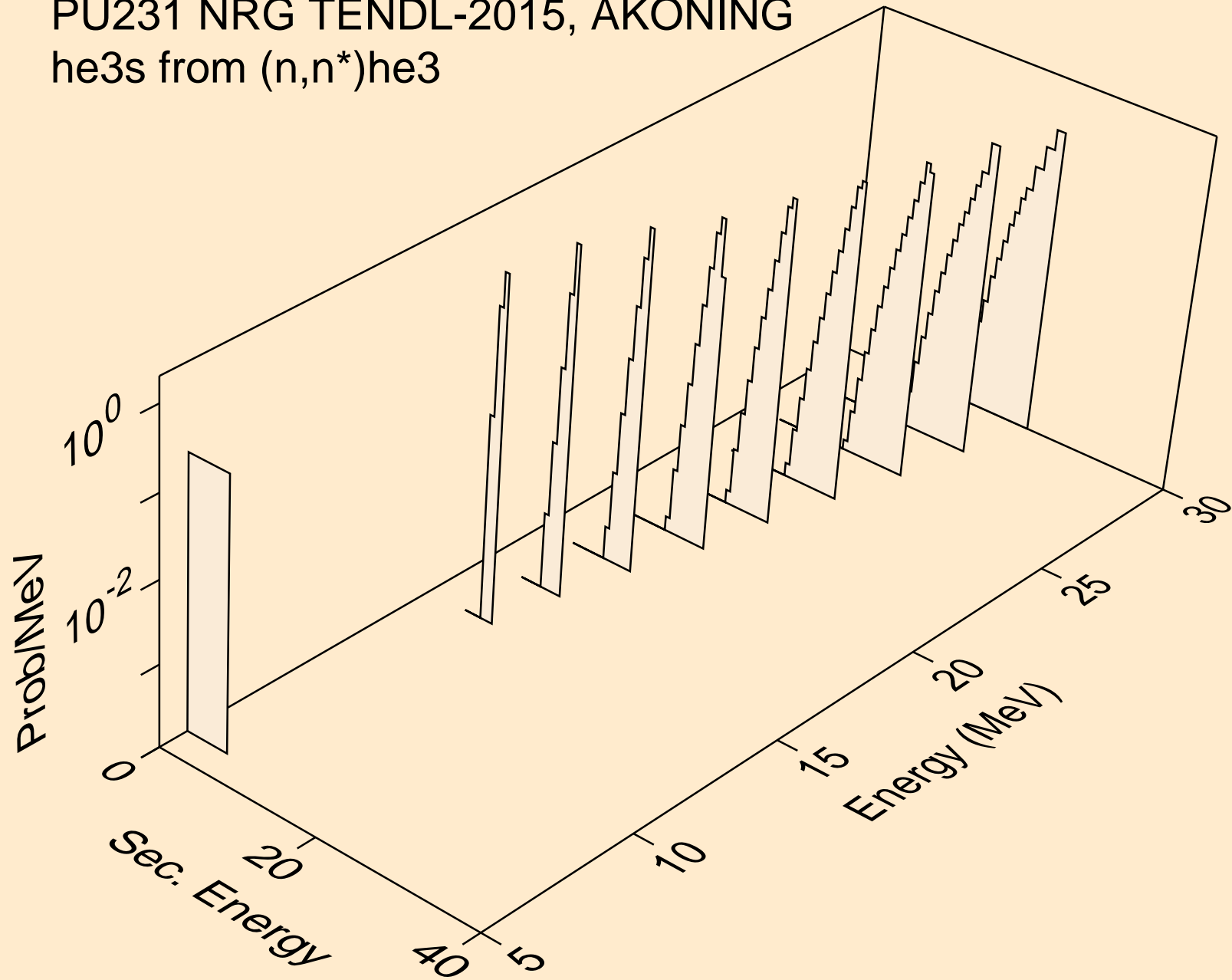
PU231 NRG TENDL-2015, AKONING  
tritons from (n,pt)



PU231 NRG TENDL-2015, AKONING  
he3s from (n,x)

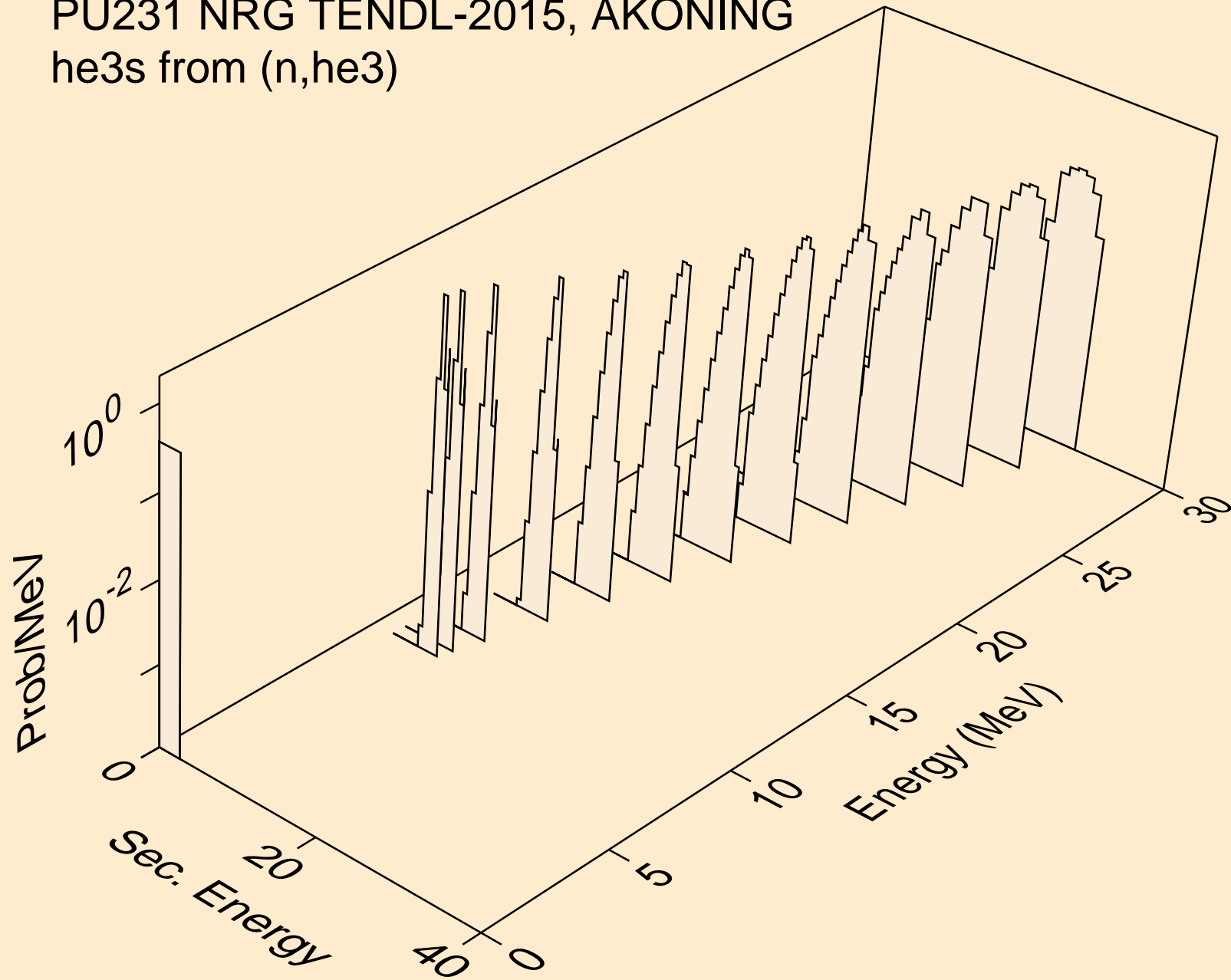


PU231 NRG TENDL-2015, AKONING  
he3s from (n,n\*)he3

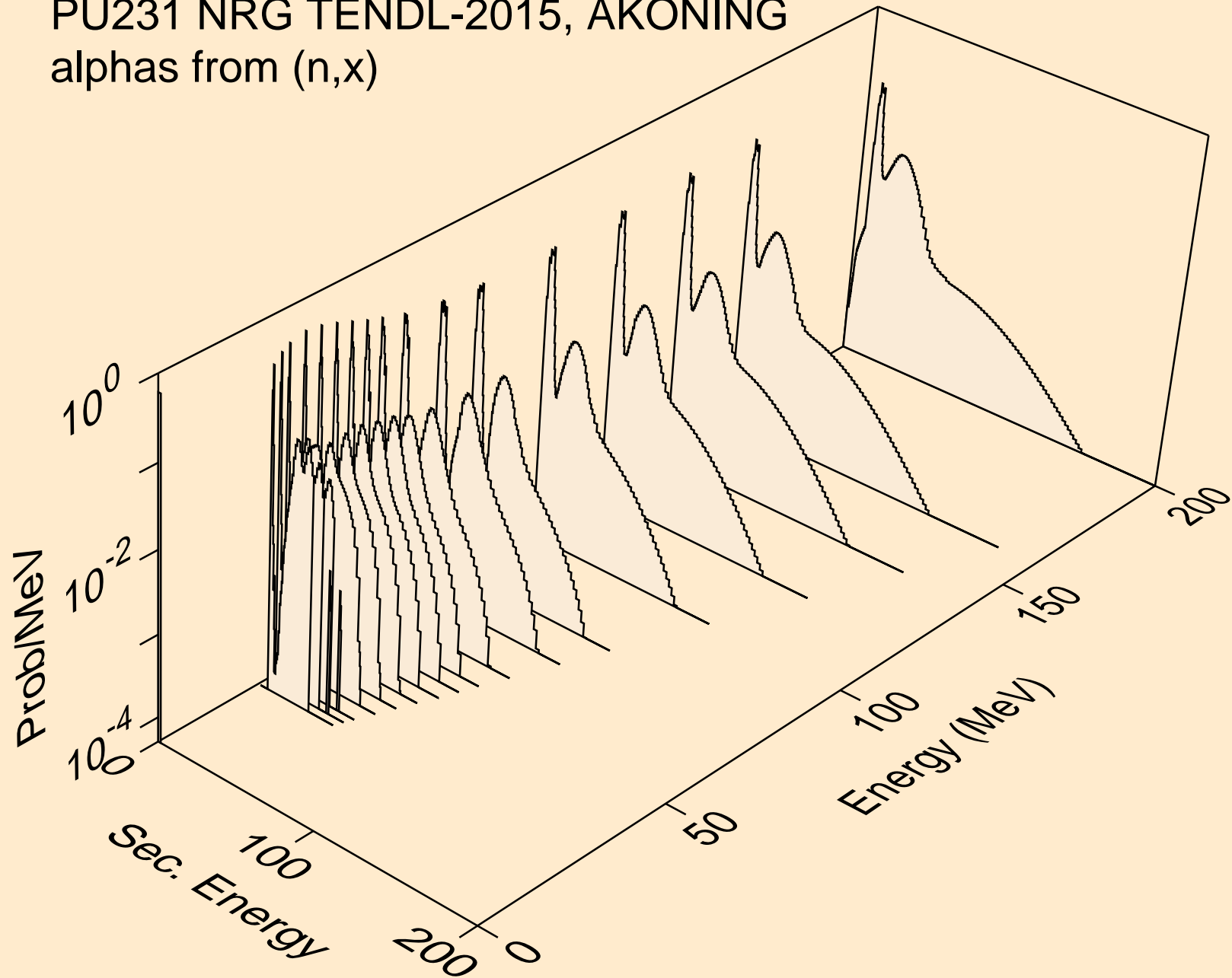




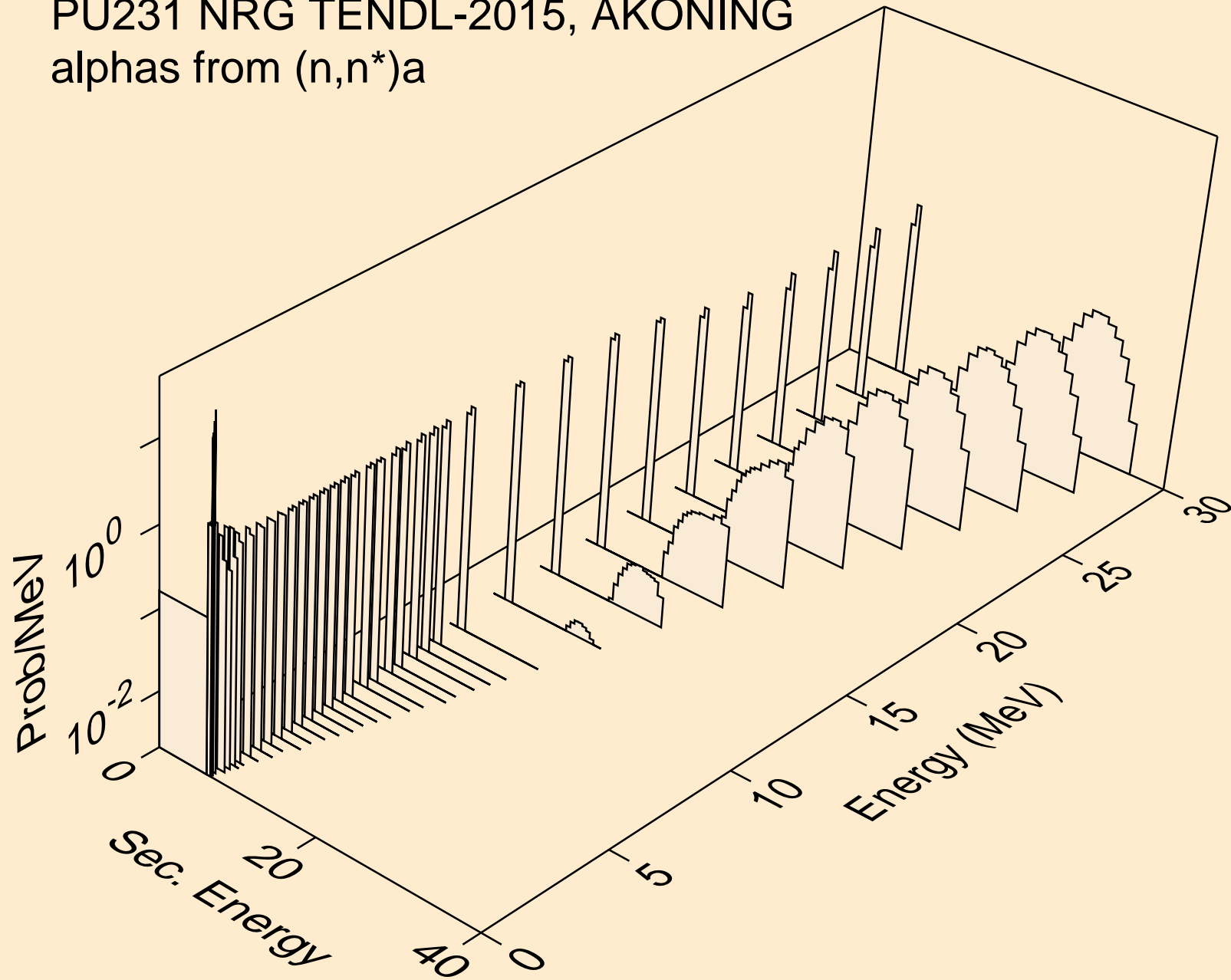
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he3s from (n,he3)



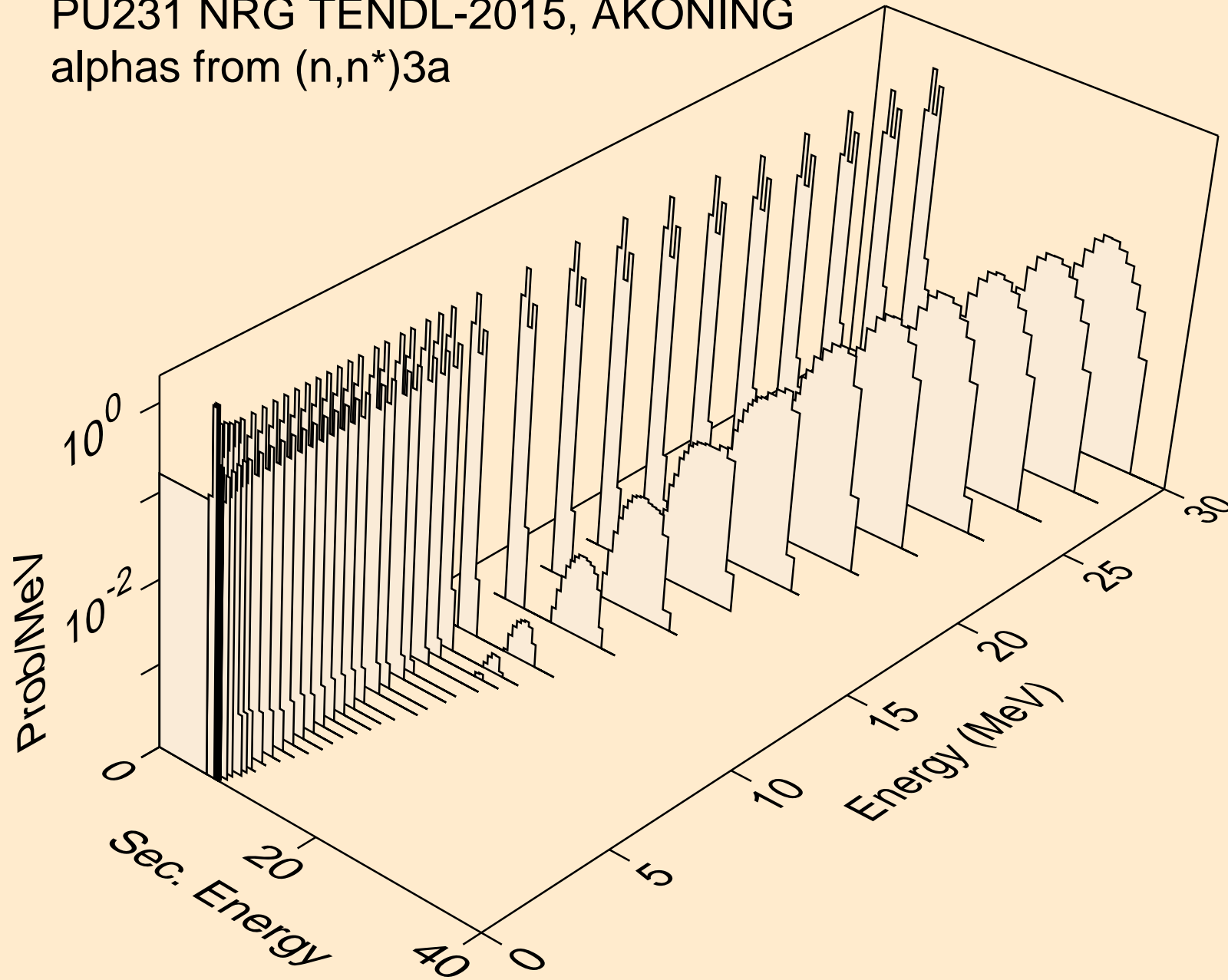
PU231 NRG TENDL-2015, AKONING  
alphas from (n,x)



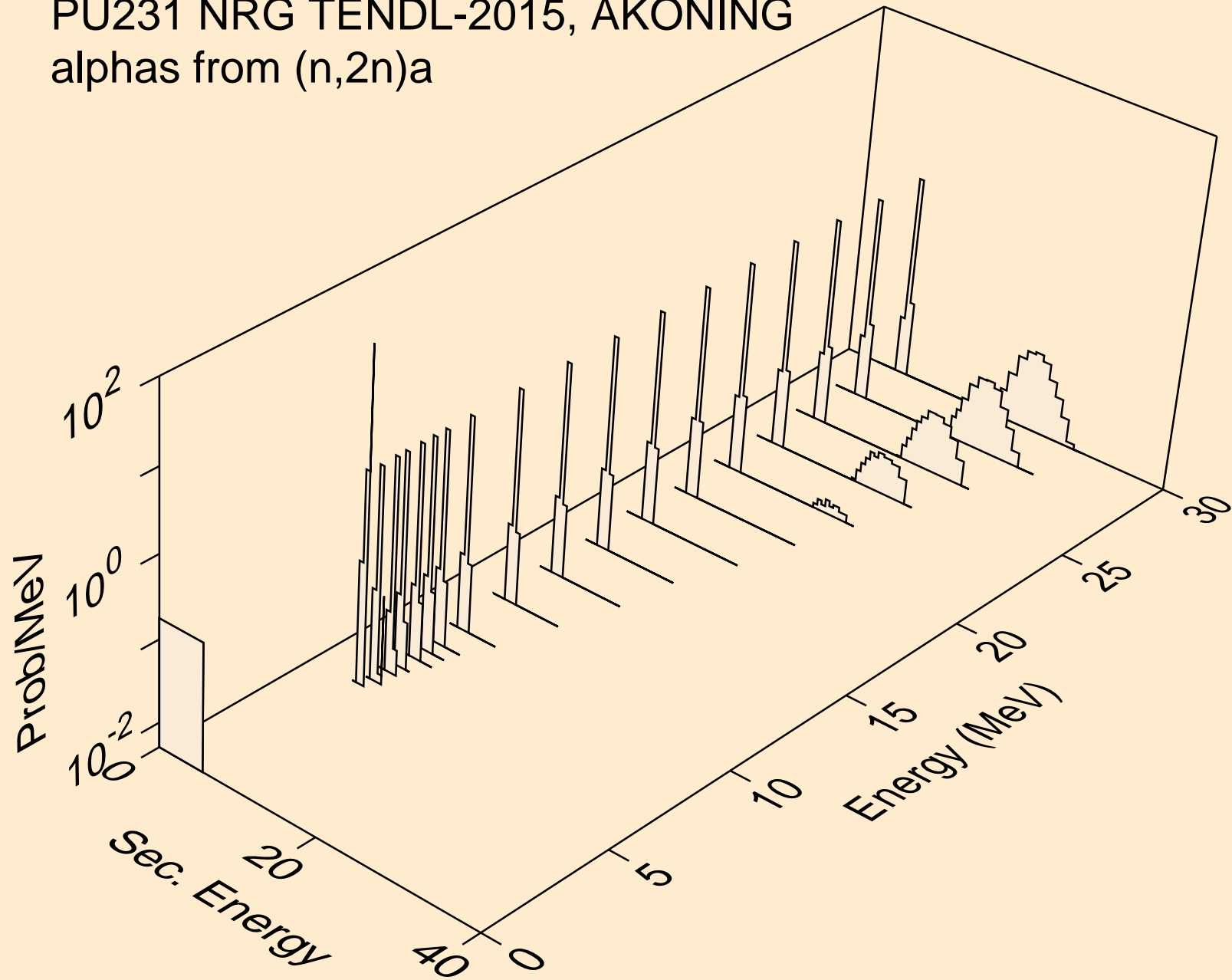
PU231 NRG TENDL-2015, AKONING  
alphas from (n,n\*)a



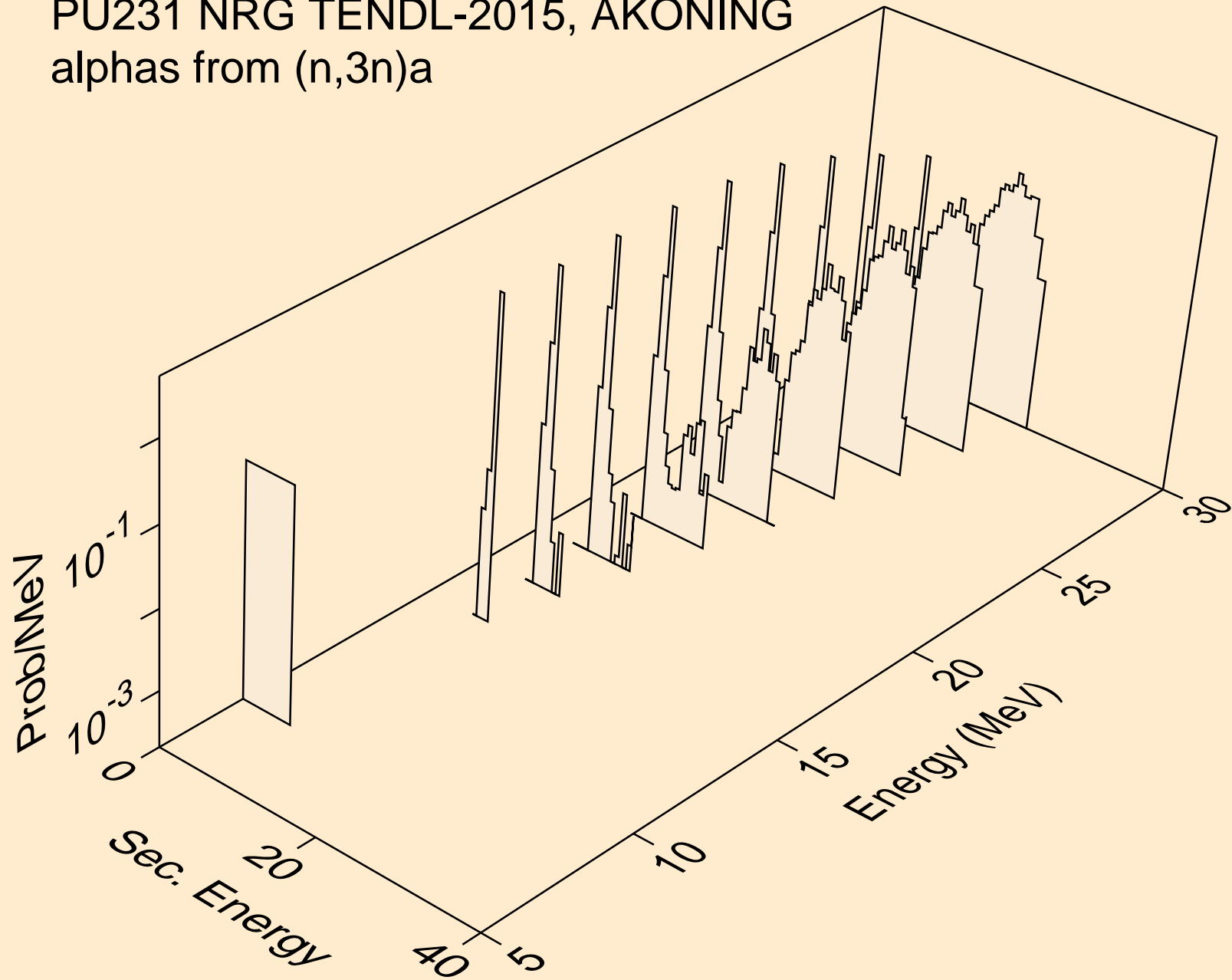
PU231 NRG TENDL-2015, AKONING  
alphas from (n,n\*)3a



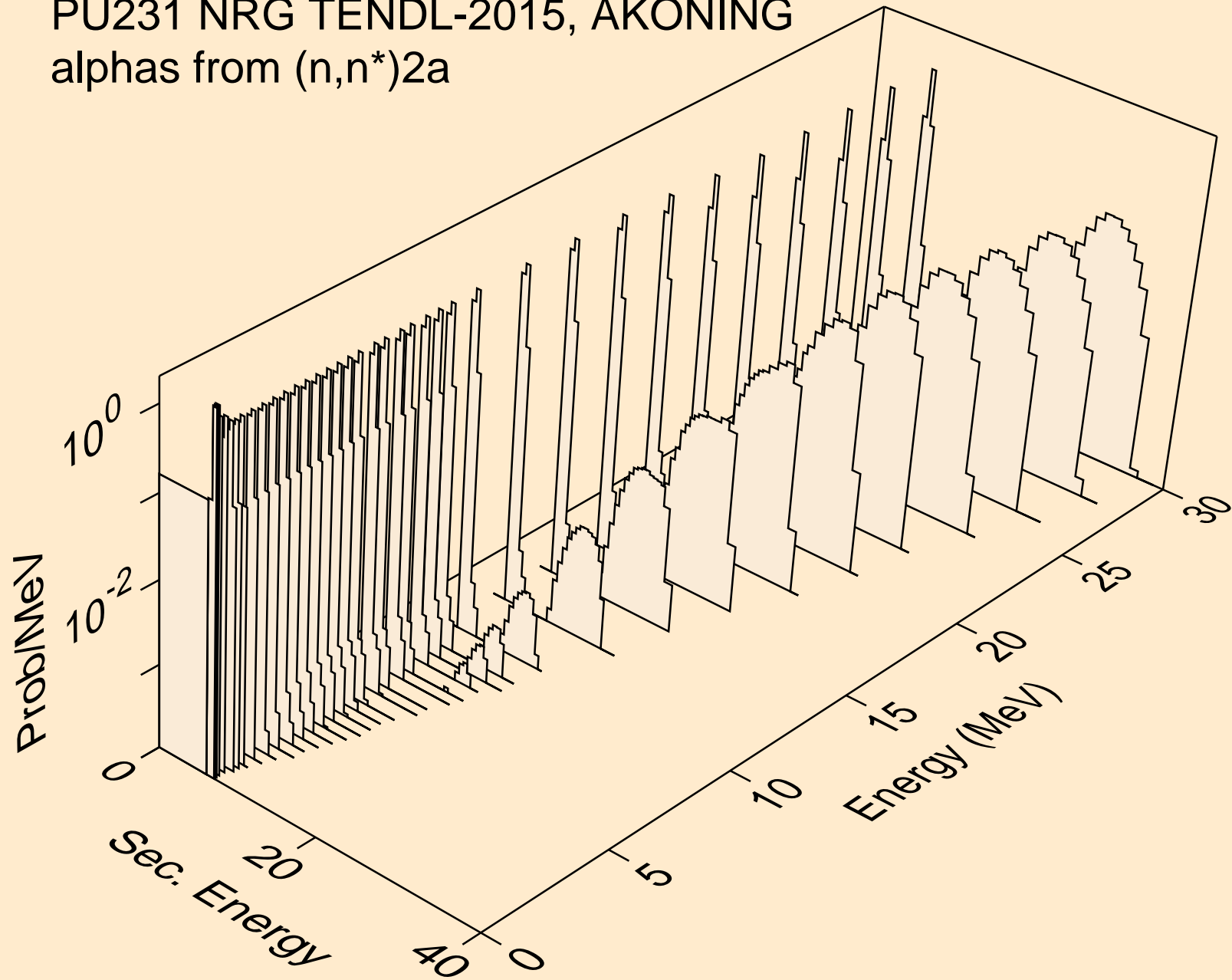
PU231 NRG TENDL-2015, AKONING  
alphas from (n,2n)a



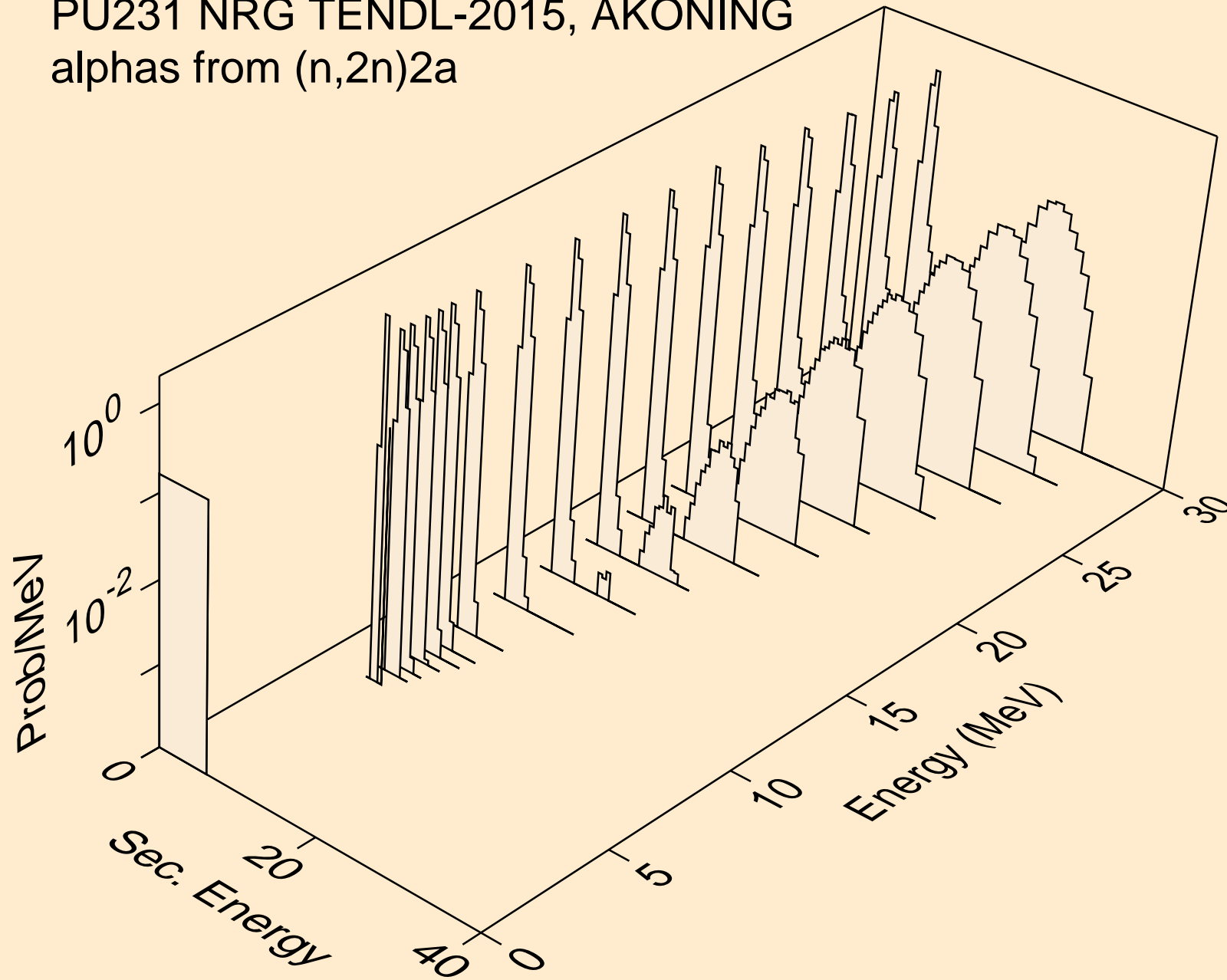
PU231 NRG TENDL-2015, AKONING  
alphas from (n,3n)a



PU231 NRG TENDL-2015, AKONING  
alphas from (n,n\*)2a

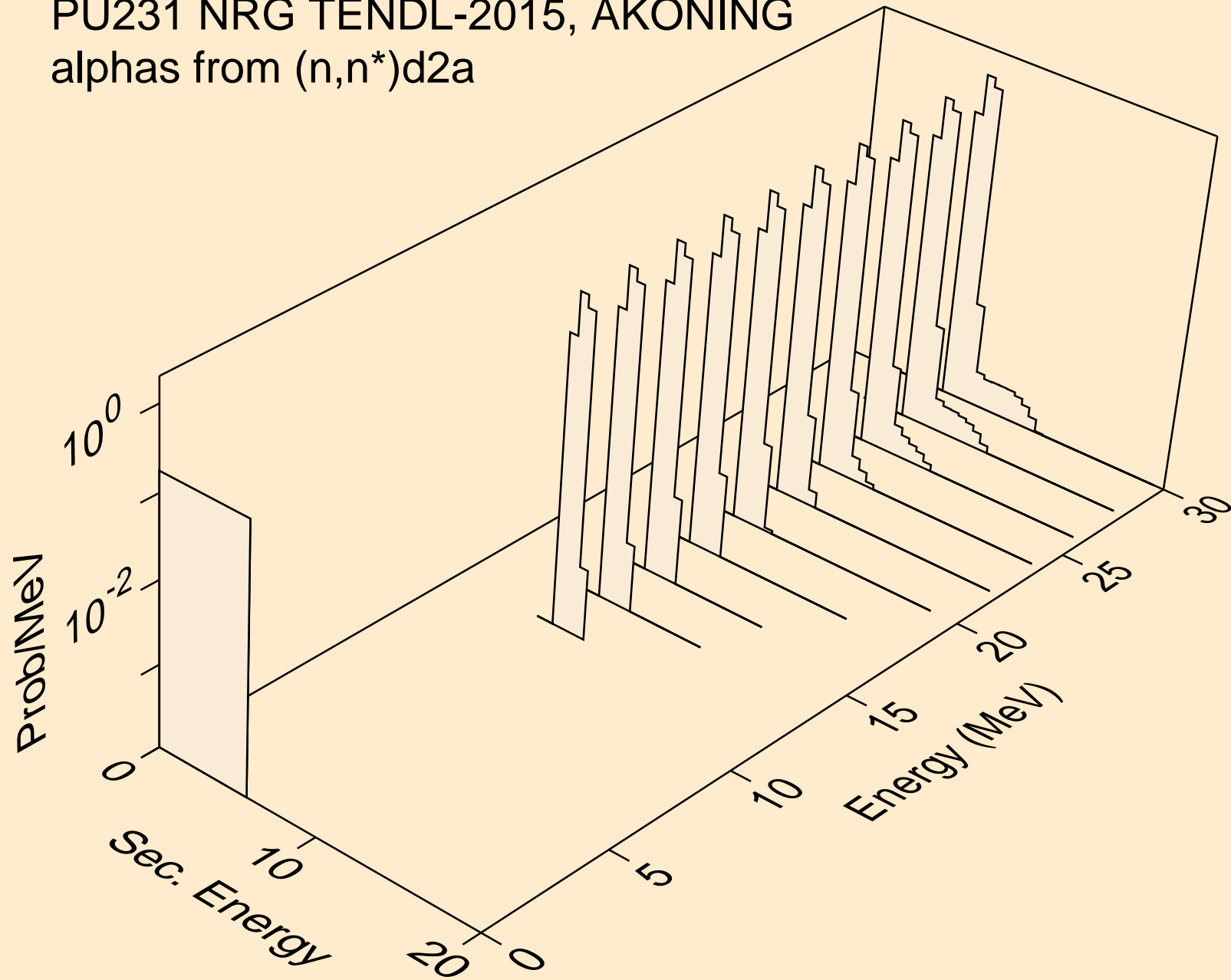


PU231 NRG TENDL-2015, AKONING  
alphas from (n,2n)2a

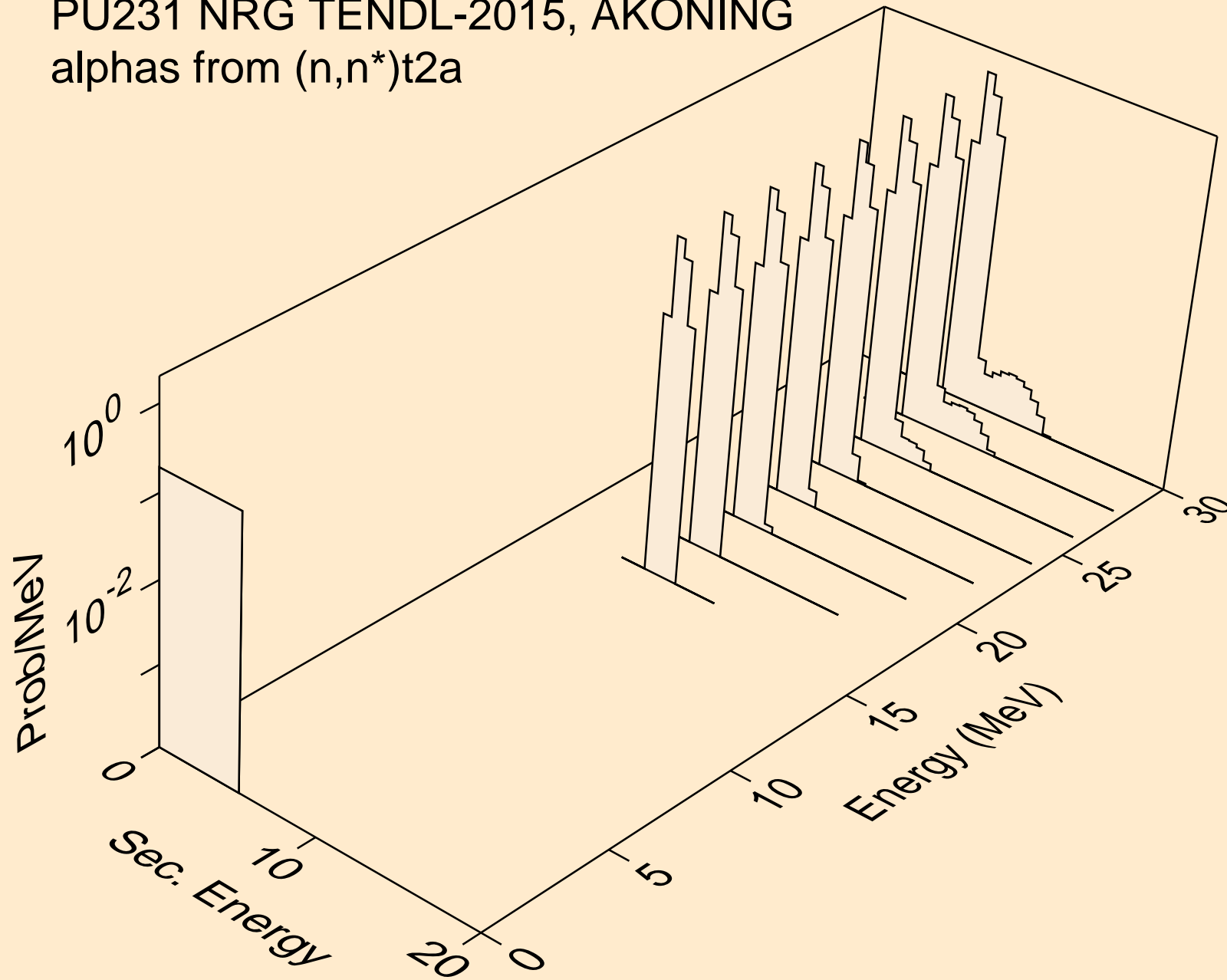




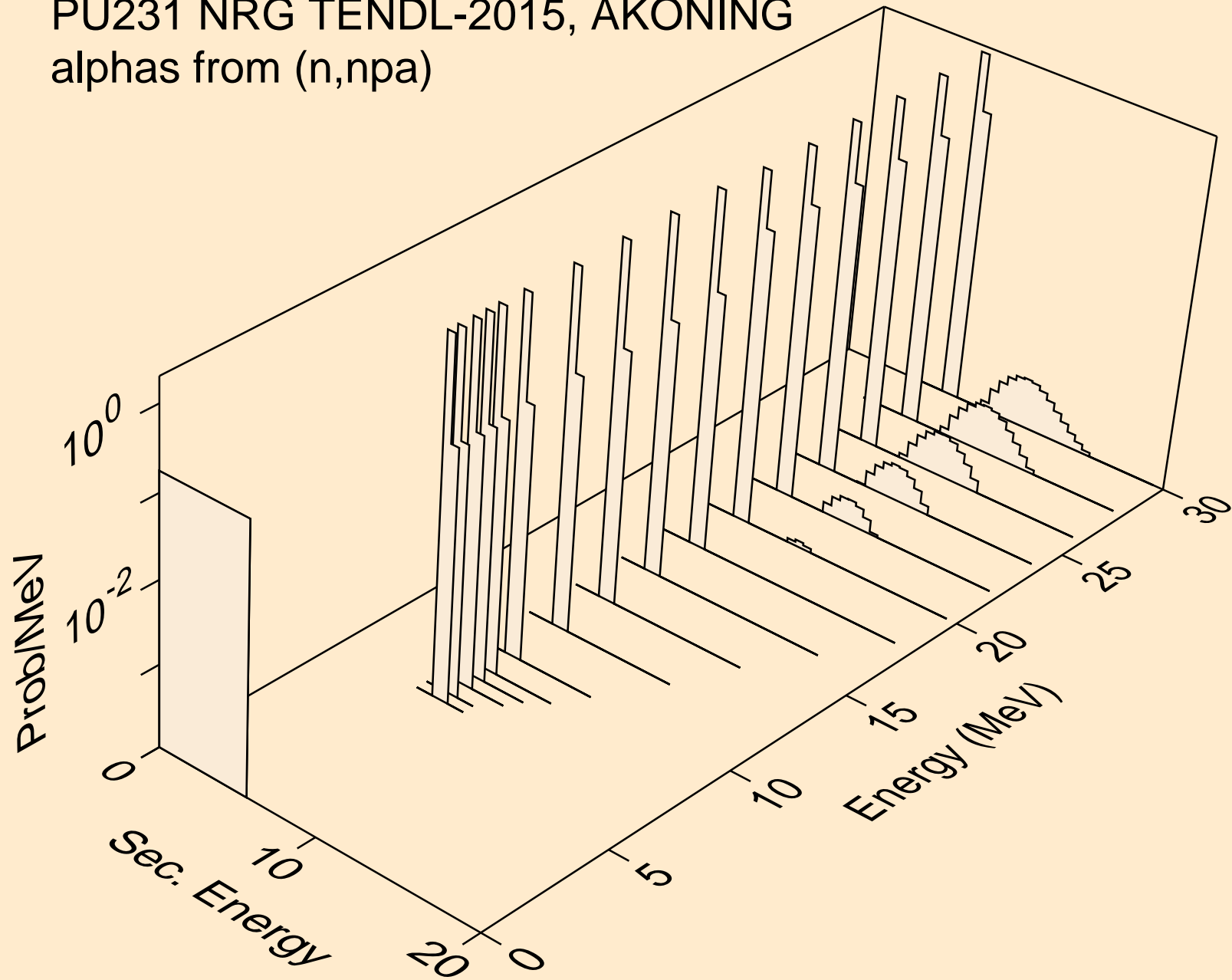
PU231 NRG TENDL-2015, AKONING  
alphas from (n,n\*)d2a



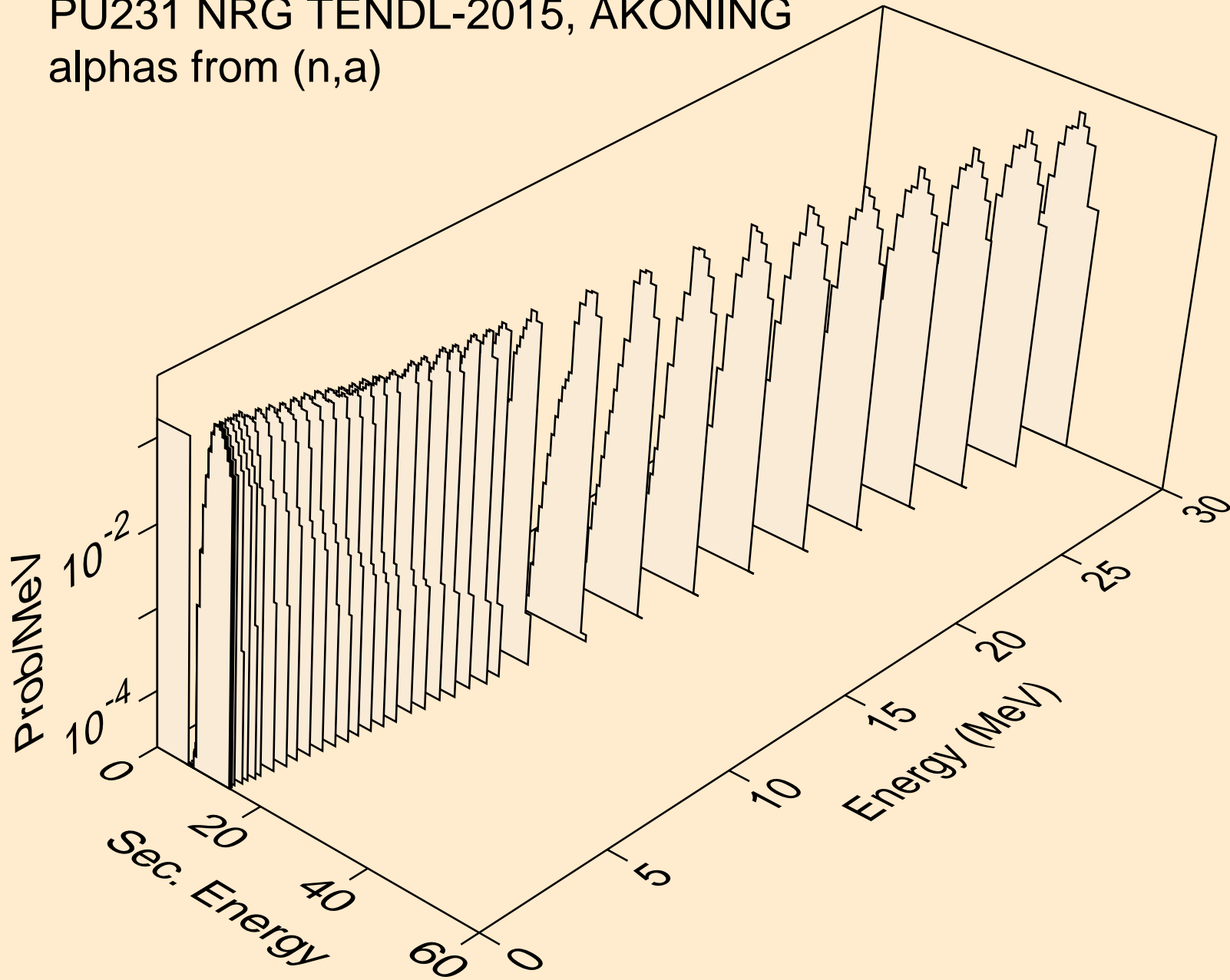
PU231 NRG TENDL-2015, AKONING  
alphas from (n,n\*)t2a



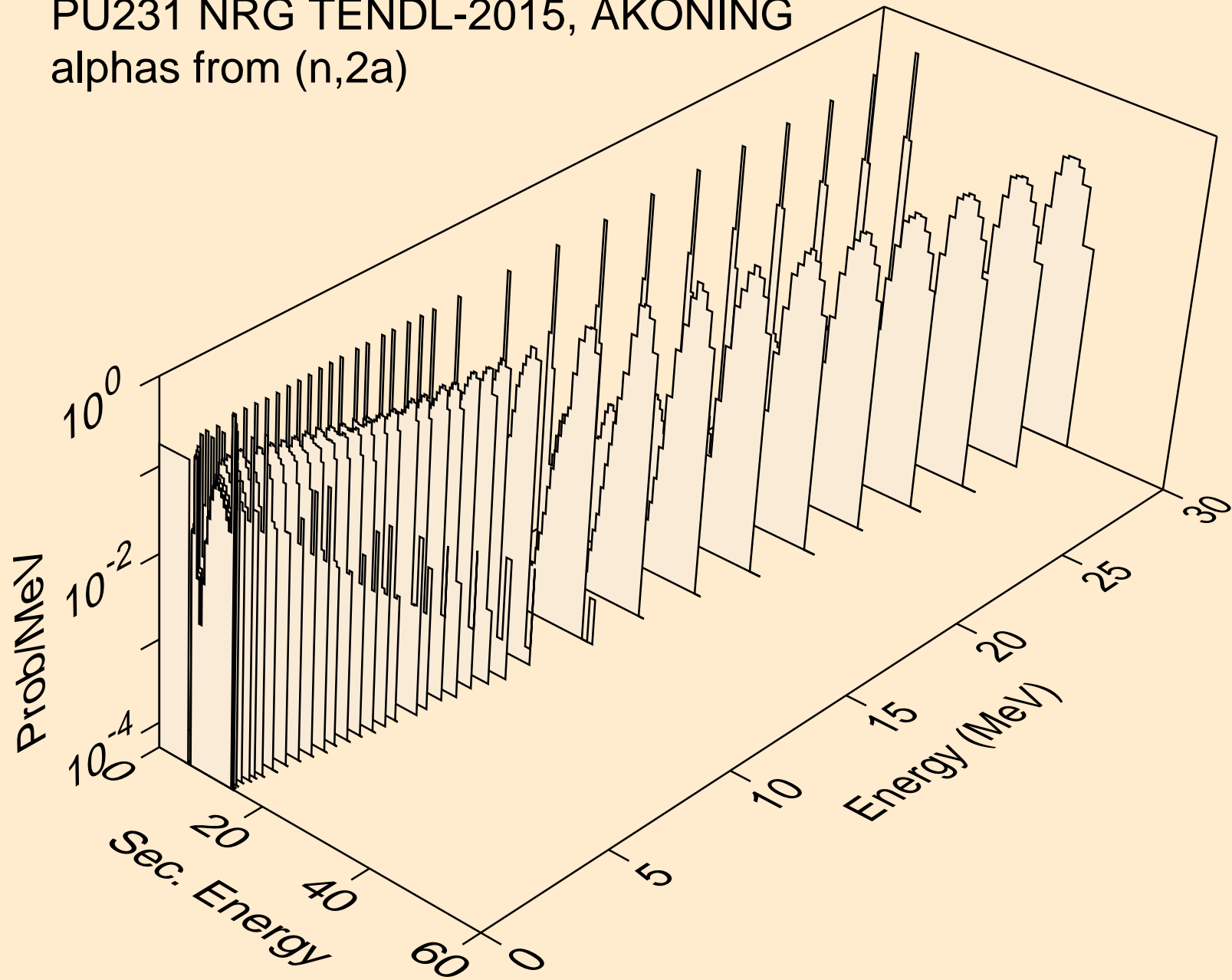
PU231 NRG TENDL-2015, AKONING  
alphas from (n,npa)



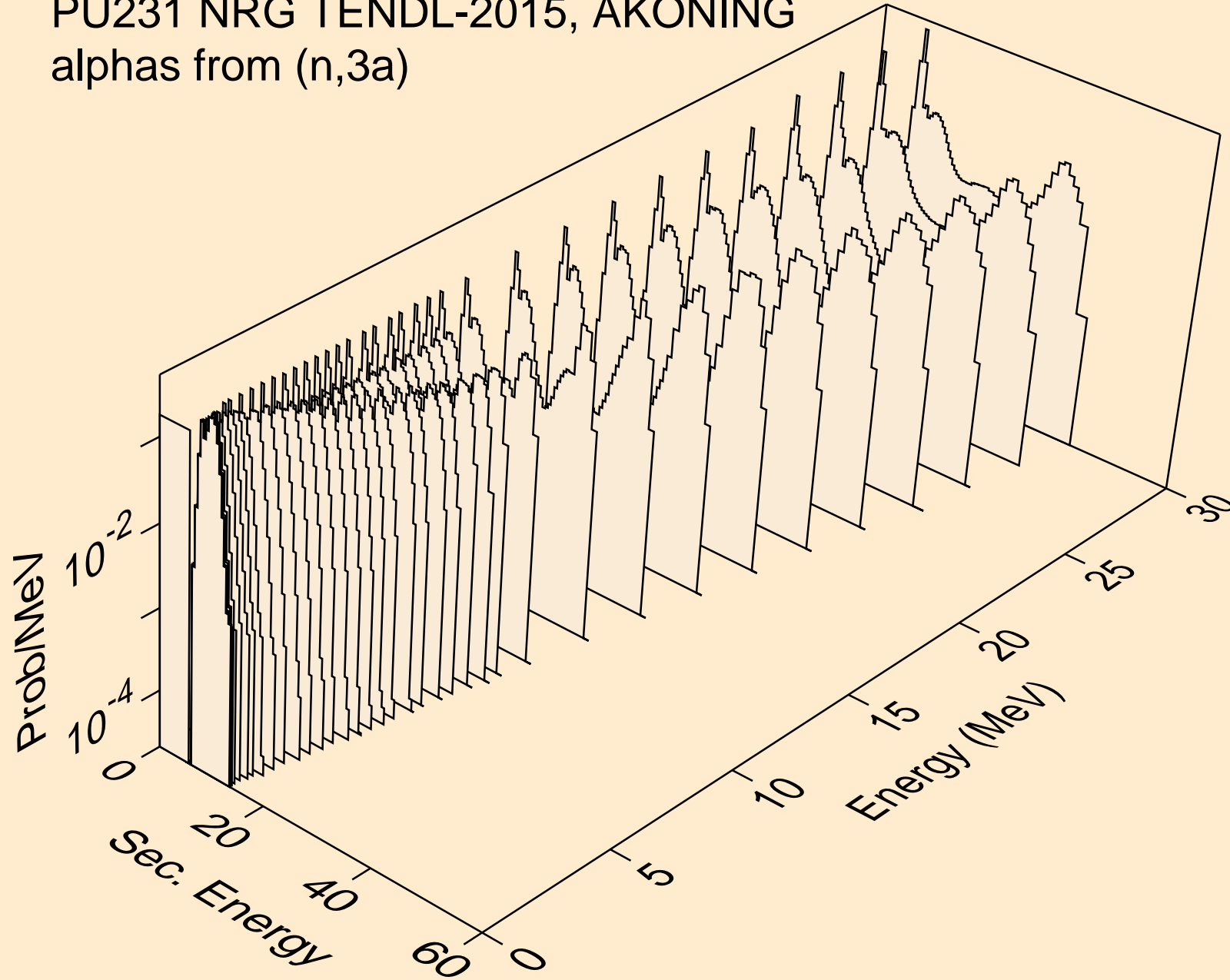
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alphas from (n,a)



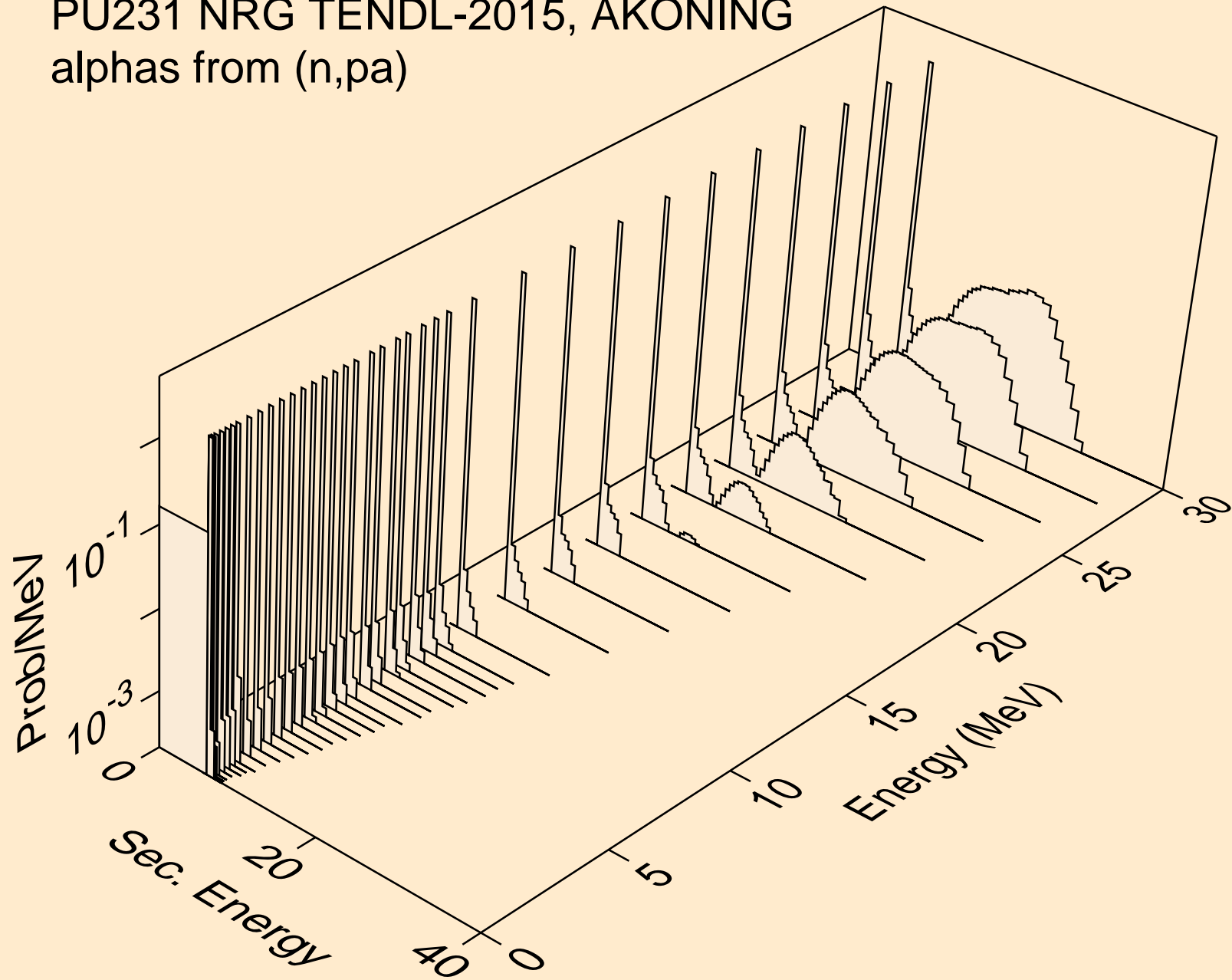
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alphas from (n,2a)



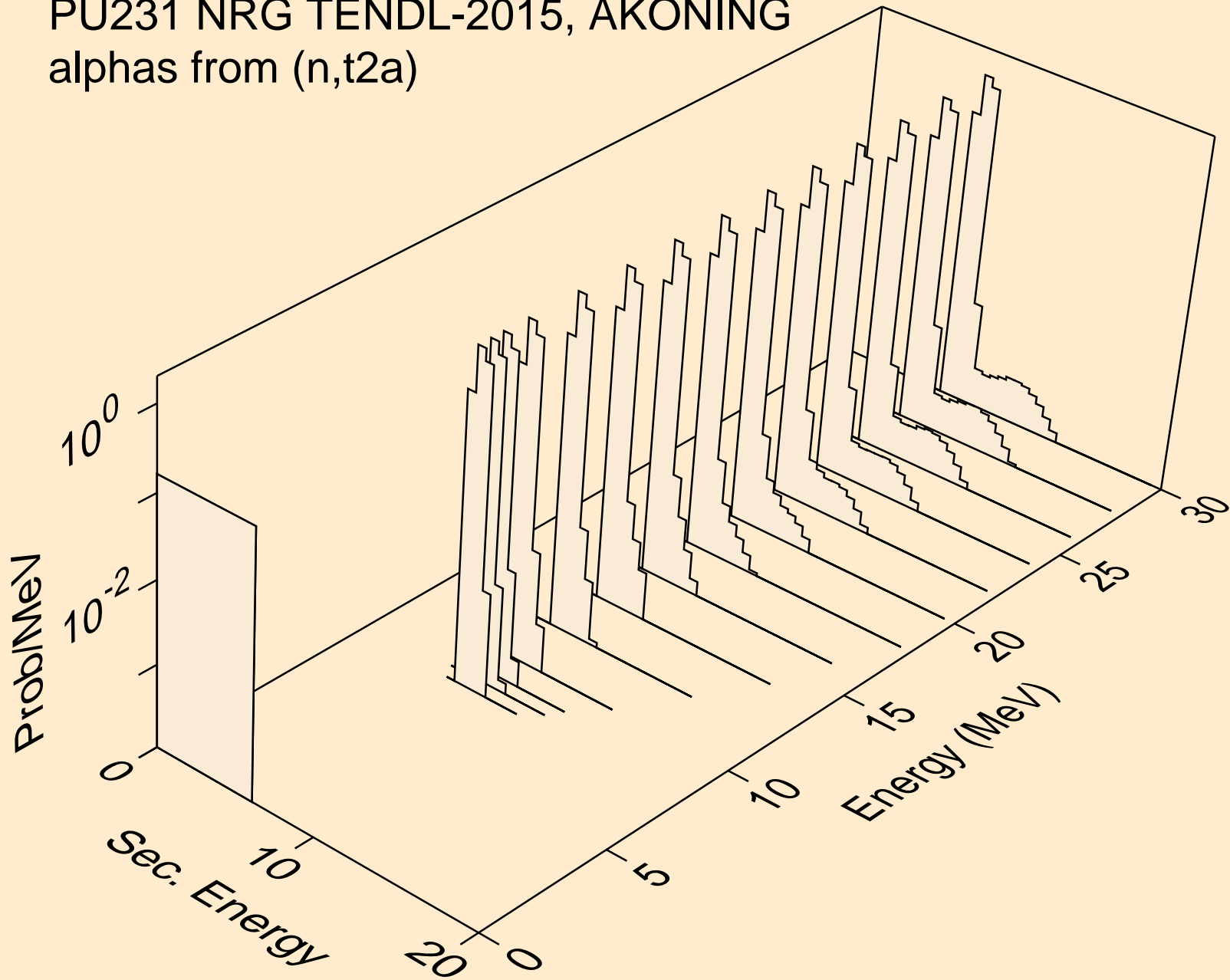
PU231 NRG TENDL-2015, AKONING  
alphas from (n,3a)



PU231 NRG TENDL-2015, AKONING  
alphas from (n,pa)

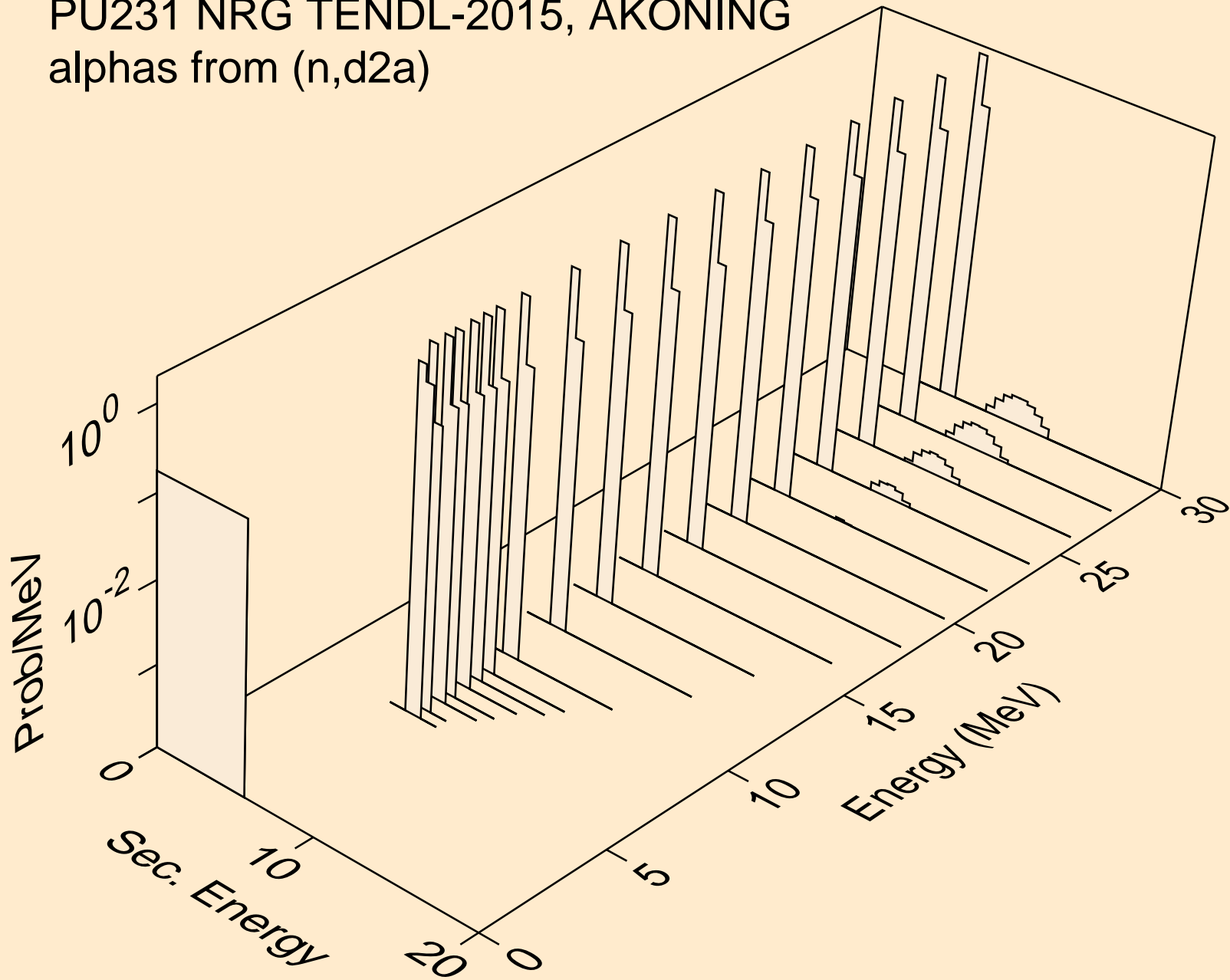


PU231 NRG TENDL-2015, AKONING  
alphas from (n,t2a)





PU231 NRG TENDL-2015, AKONING  
alphas from (n,d2a)



PU231 NRG TENDL-2015, AKONING  
alphas from (n,da)

