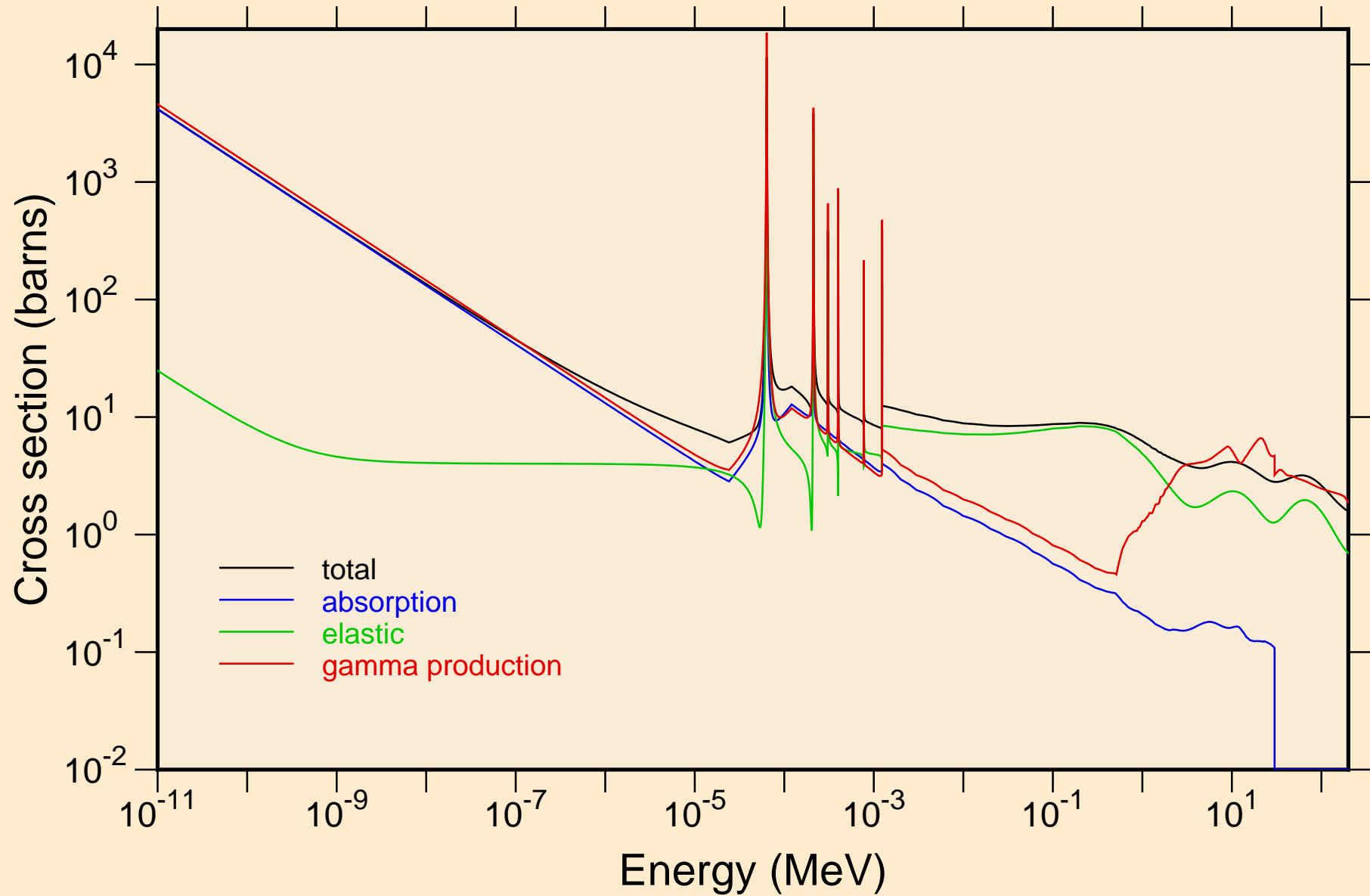


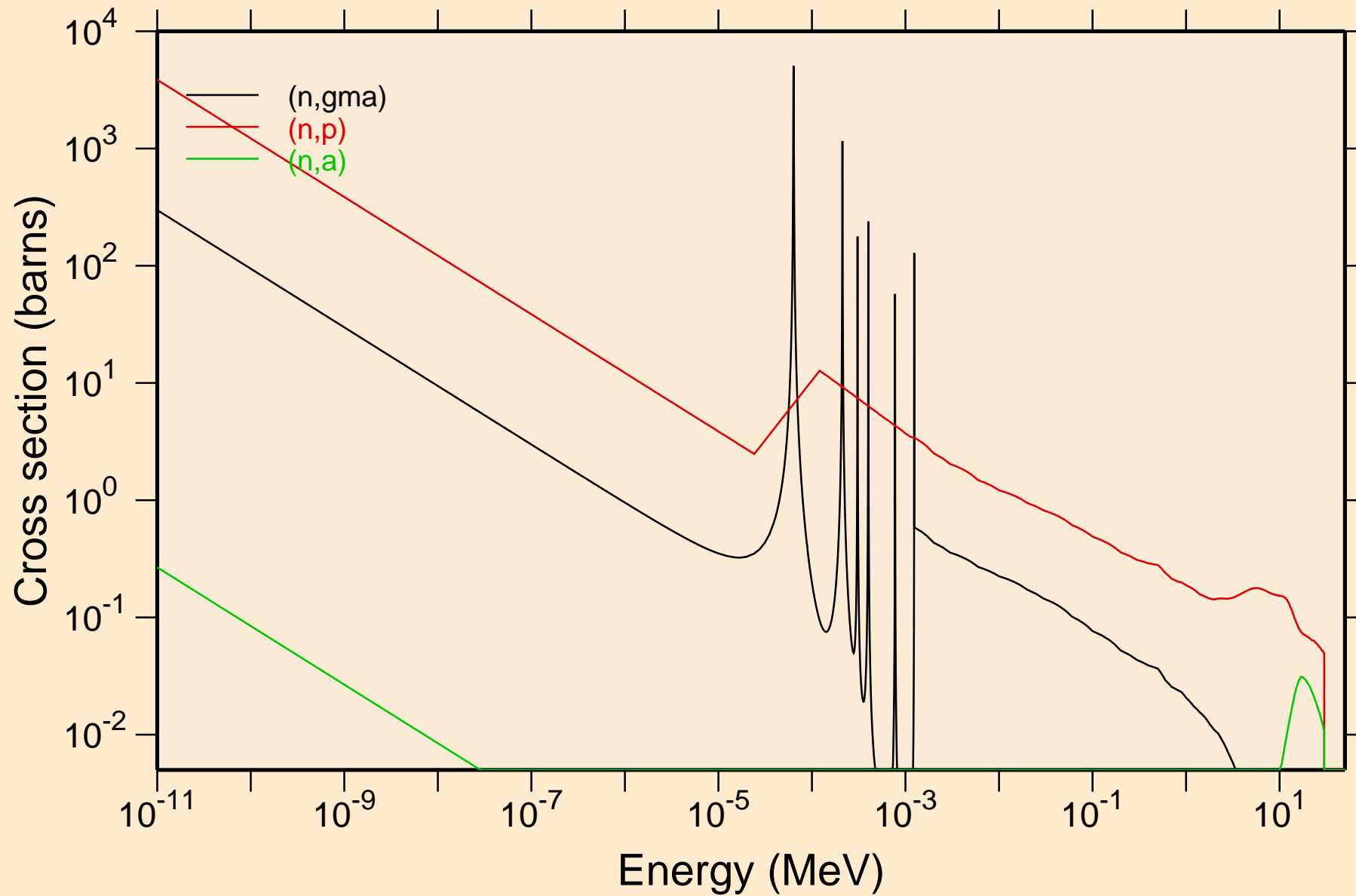
# ZR089M NRG TENDL-2015, AKONING

## Principal cross sections



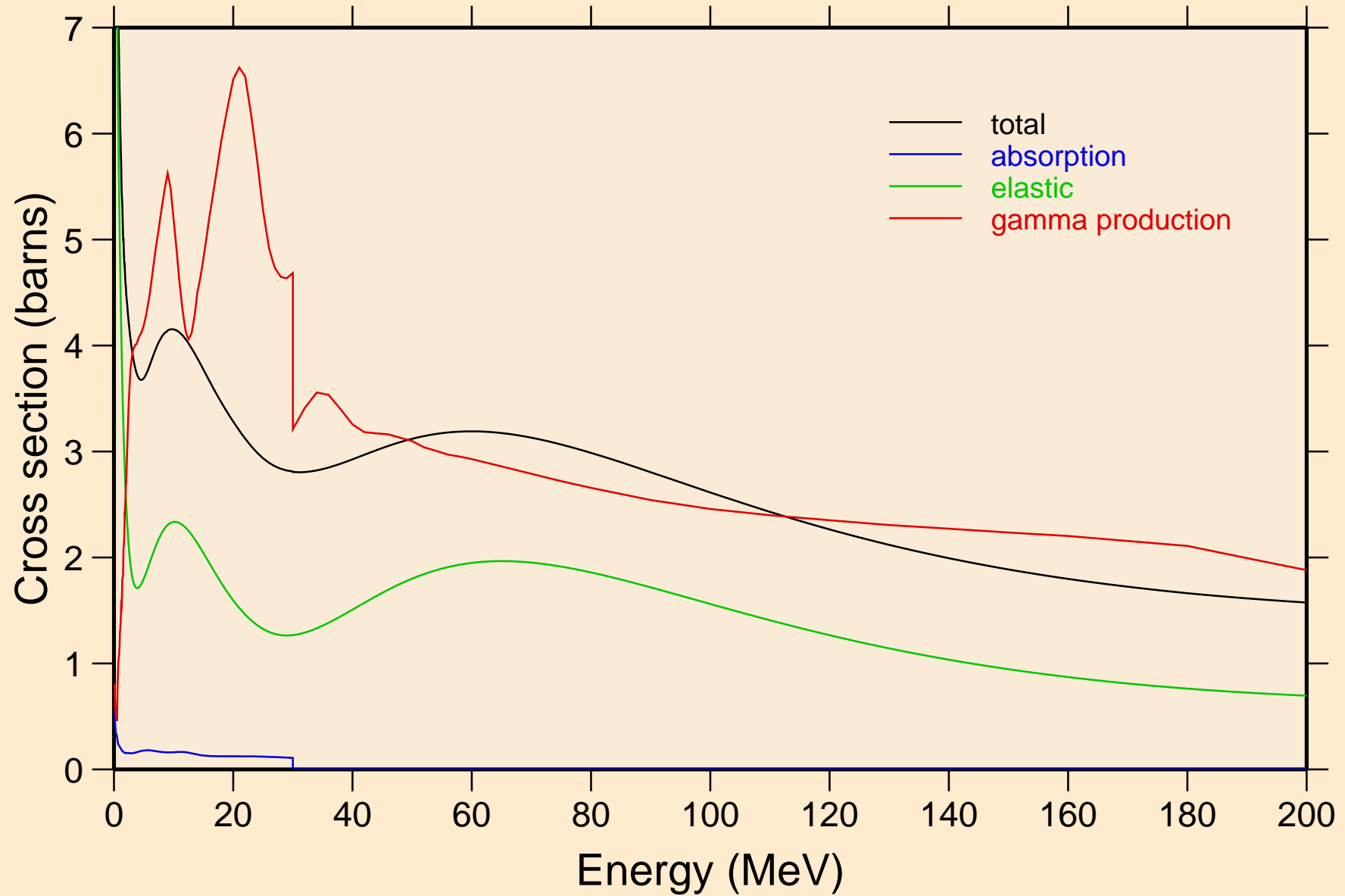
# ZR089M NRG TENDL-2015, AKONING

## Non-threshold reactions



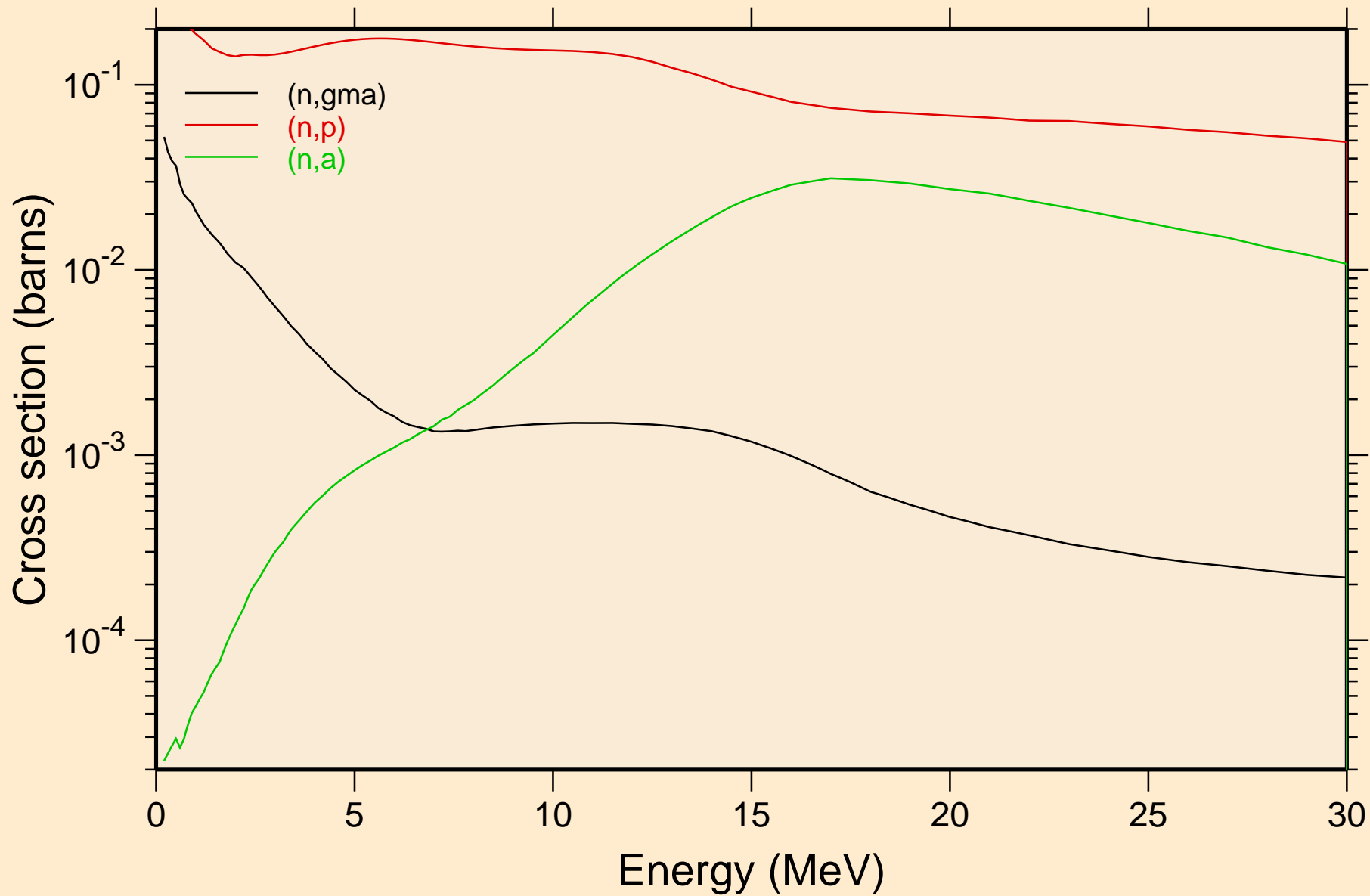
# ZR089M NRG TENDL-2015, AKONING

## Principal cross sections

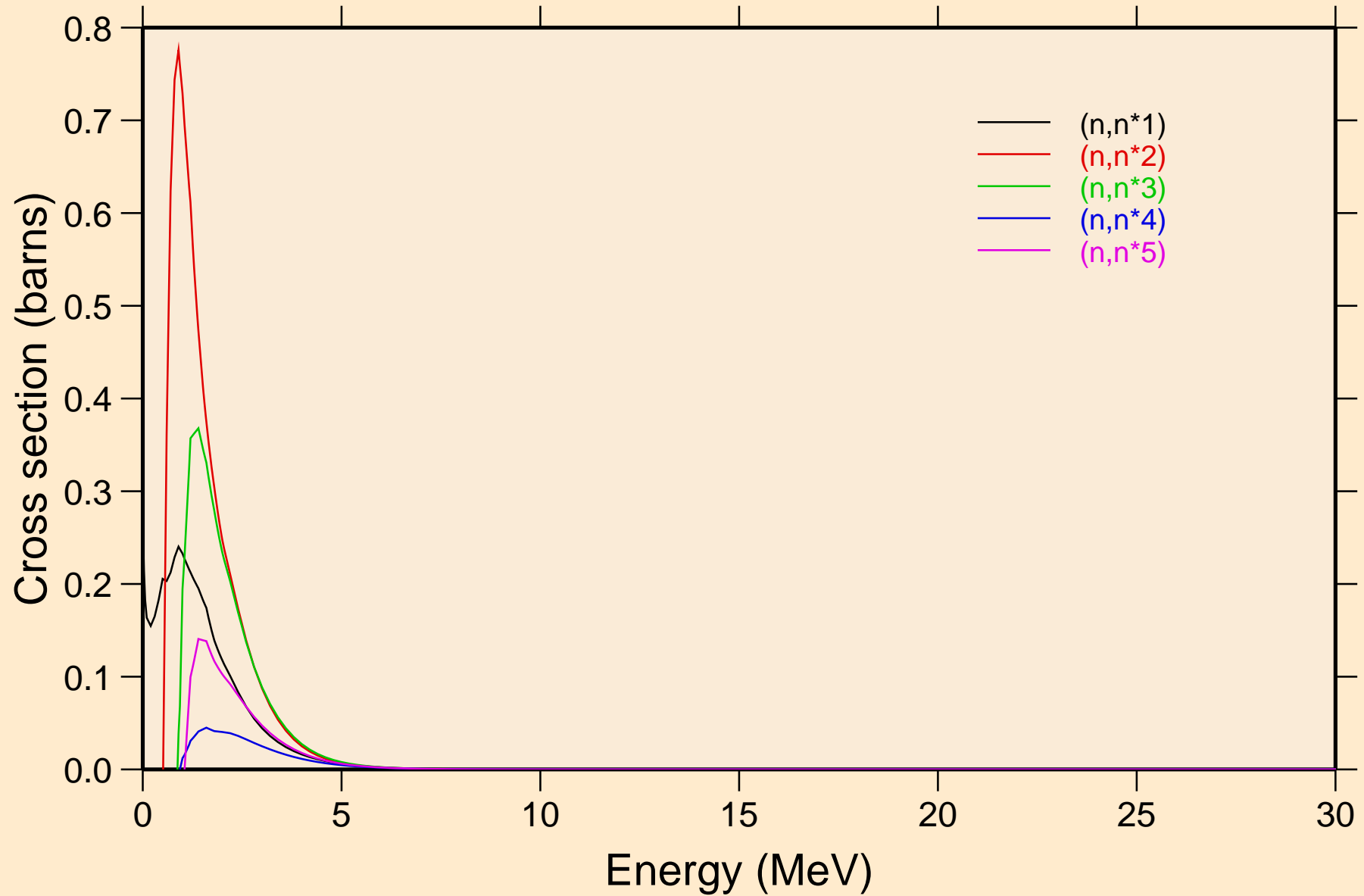


# ZR089M NRG TENDL-2015, AKONING

## Non-threshold reactions

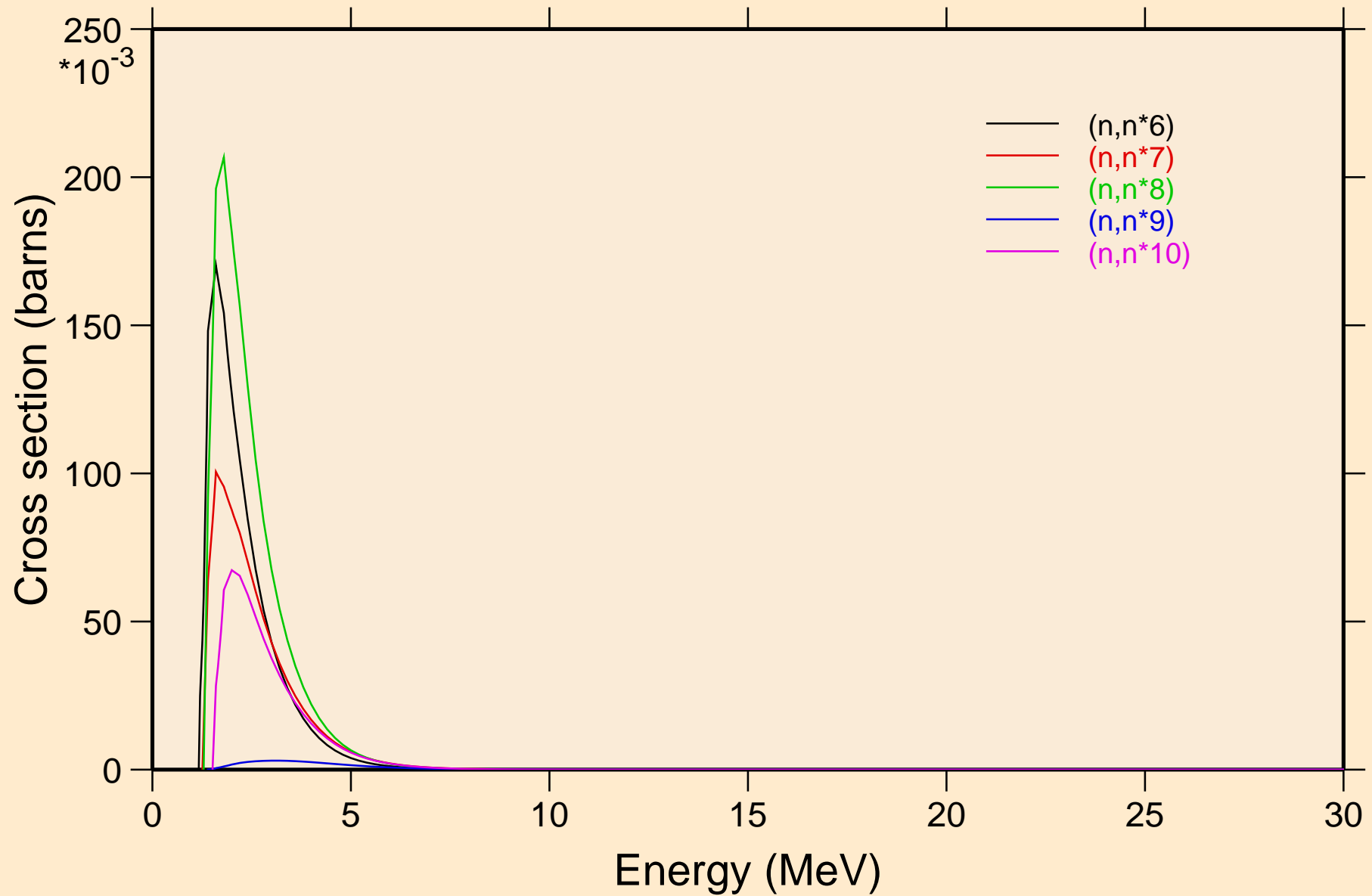


ZR089M NRG TENDL-2015, AKONING  
Inelastic levels



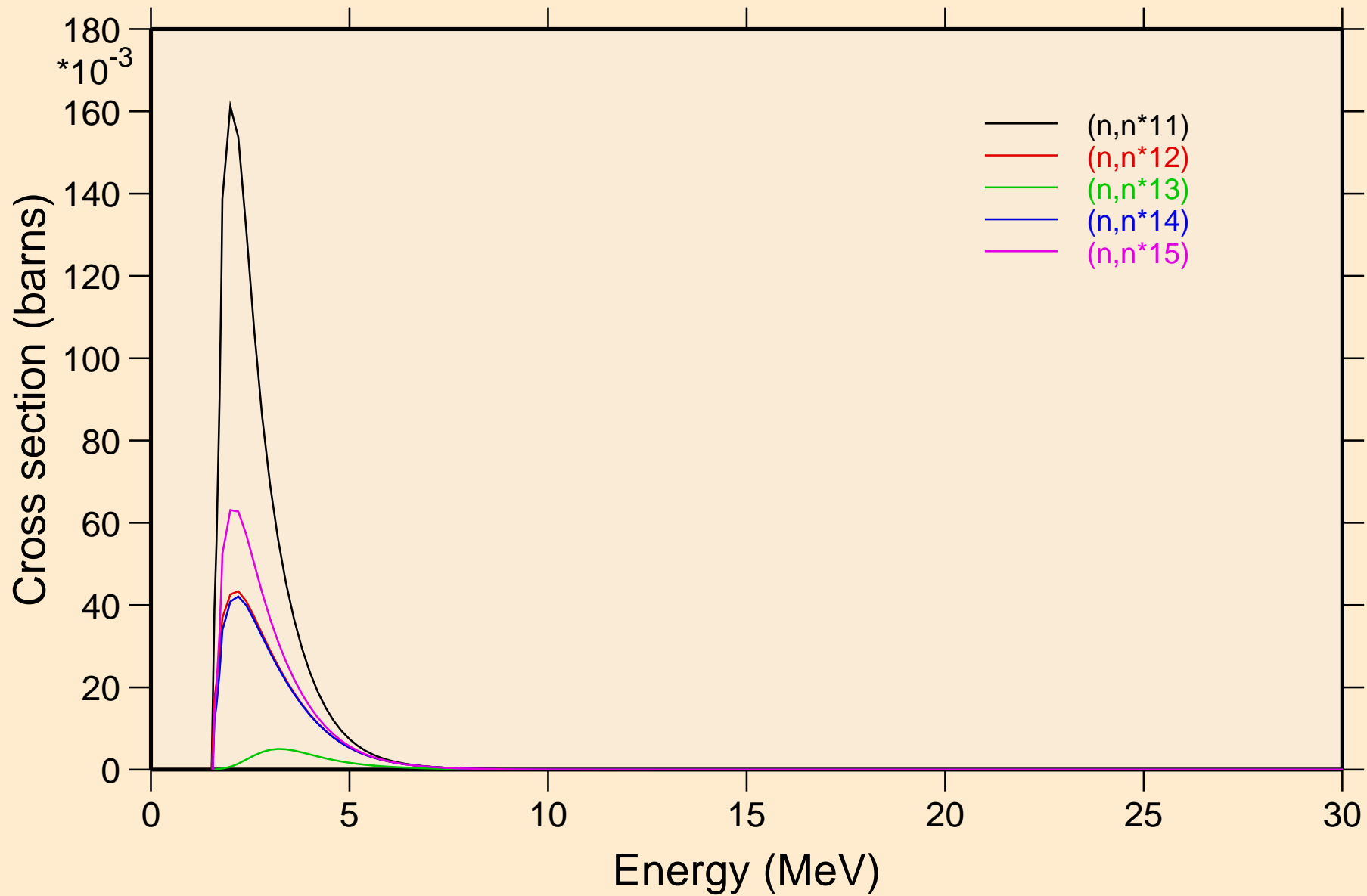
# ZR089M NRG TENDL-2015, AKONING

## Inelastic levels



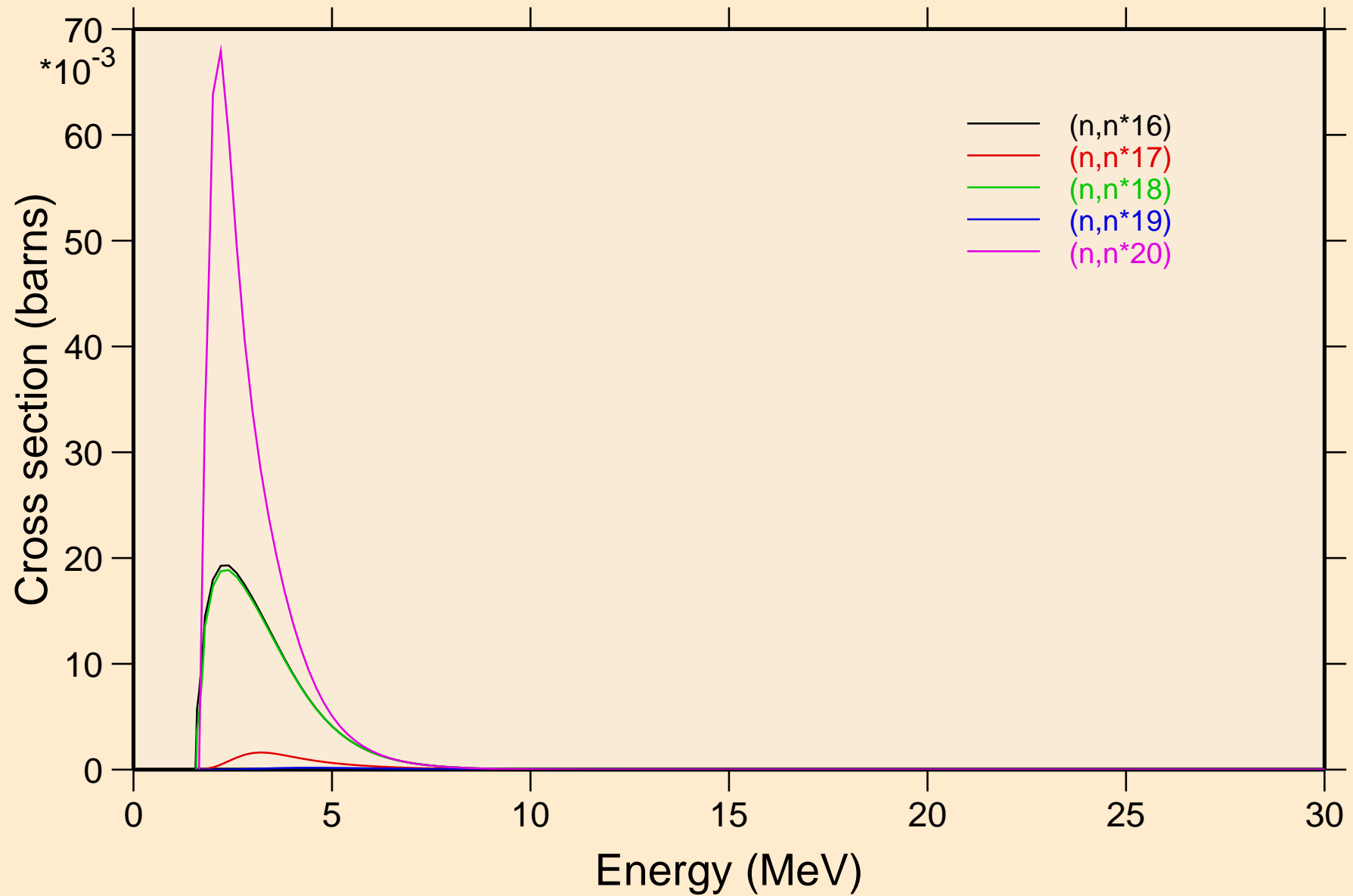
# ZR089M NRG TENDL-2015, AKONING

## Inelastic levels



# ZR089M NRG TENDL-2015, AKONING

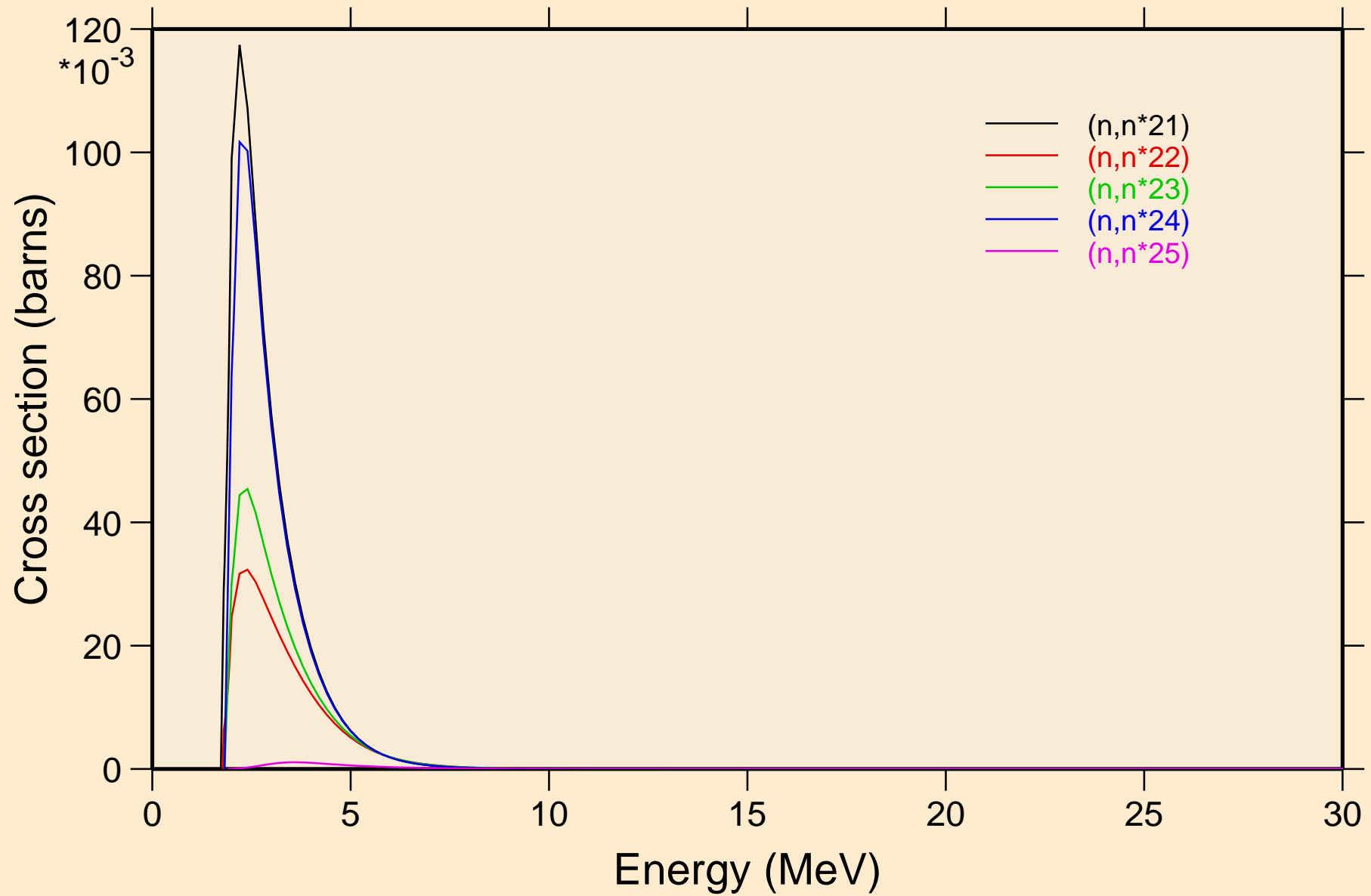
## Inelastic levels





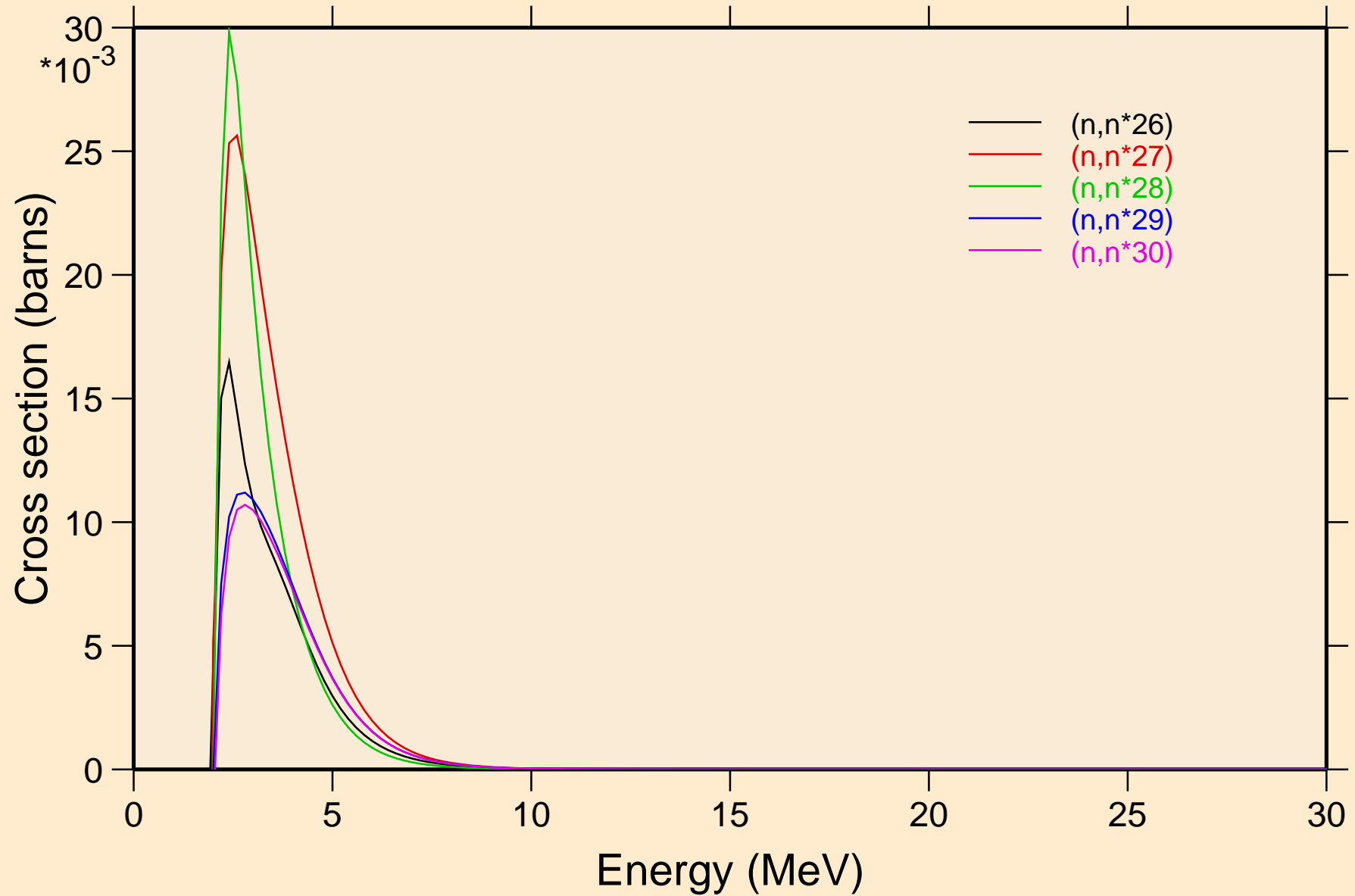
# ZR089M NRG TENDL-2015, AKONING

## Inelastic levels



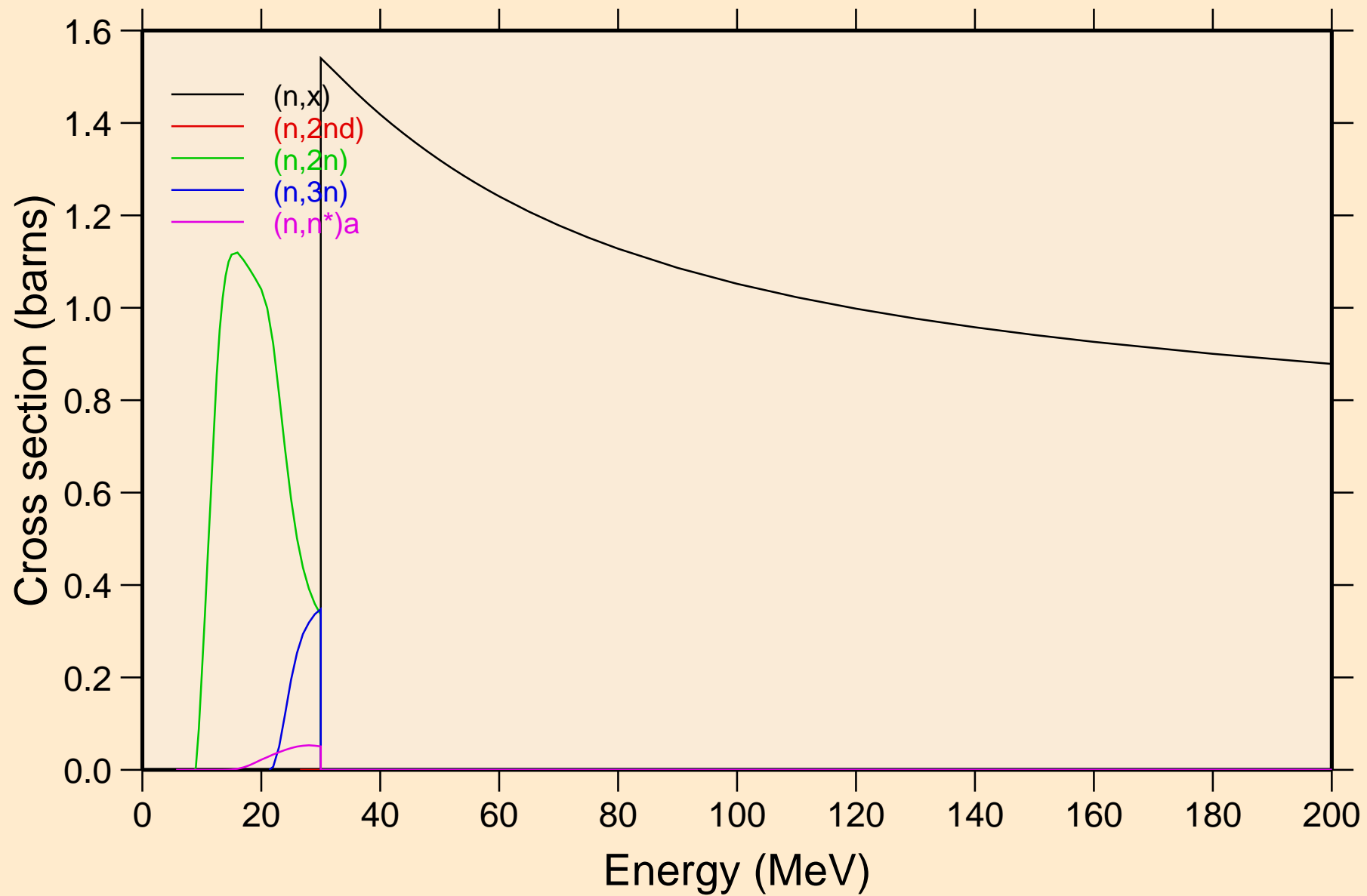
# ZR089M NRG TENDL-2015, AKONING

## Inelastic levels



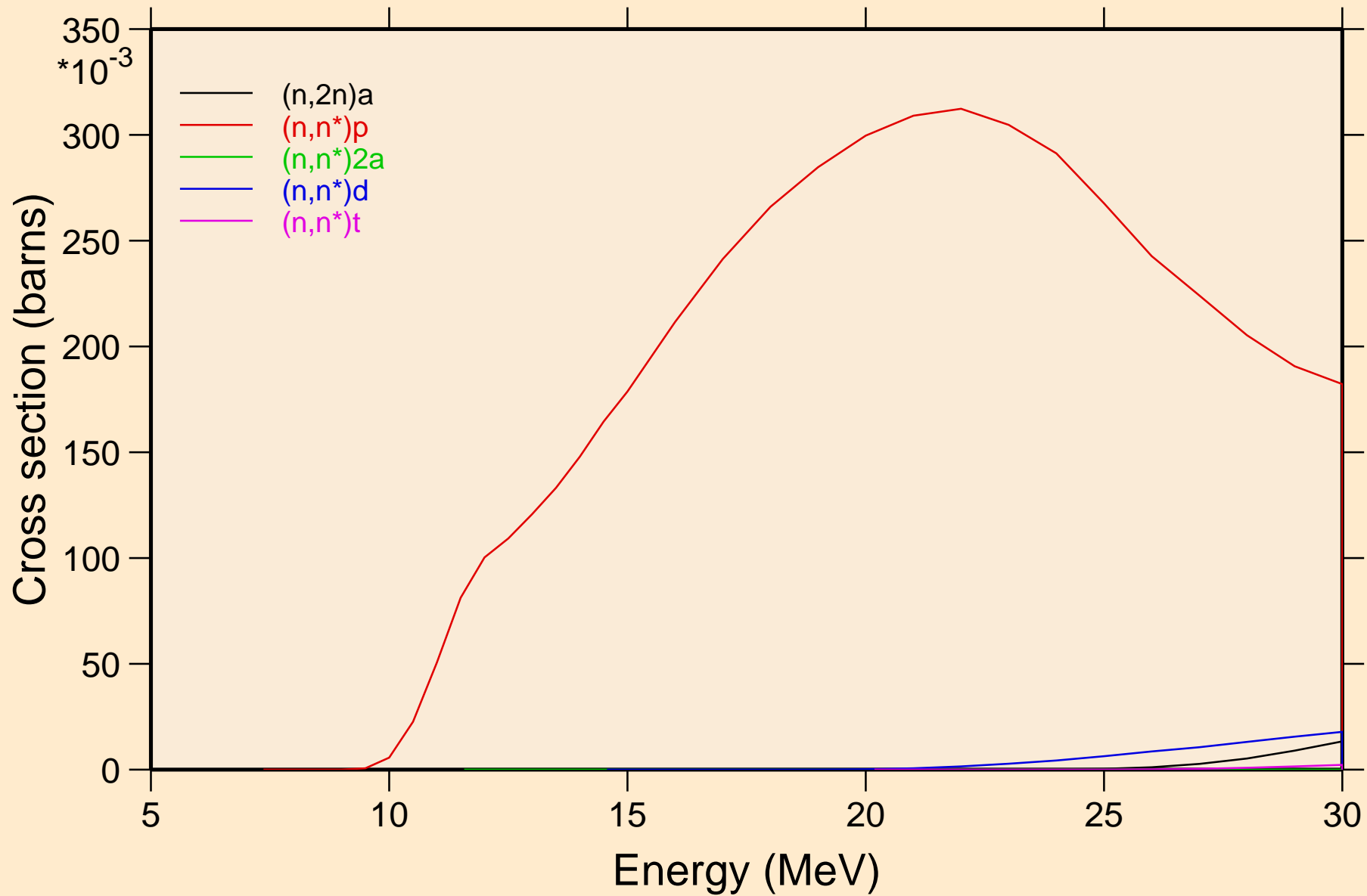
# ZR089M NRG TENDL-2015, AKONING

## Threshold reactions



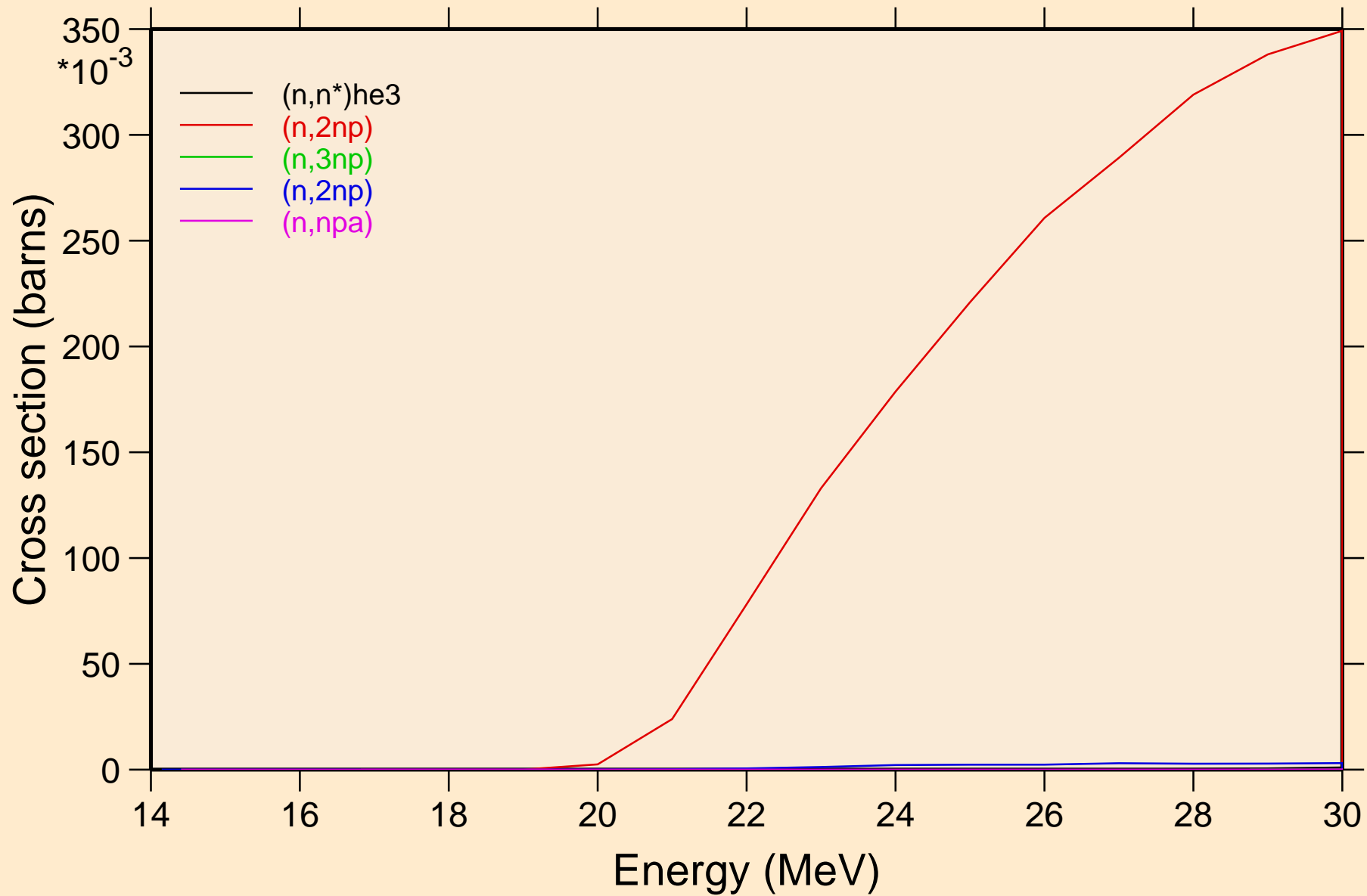
# ZR089M NRG TENDL-2015, AKONING

## Threshold reactions



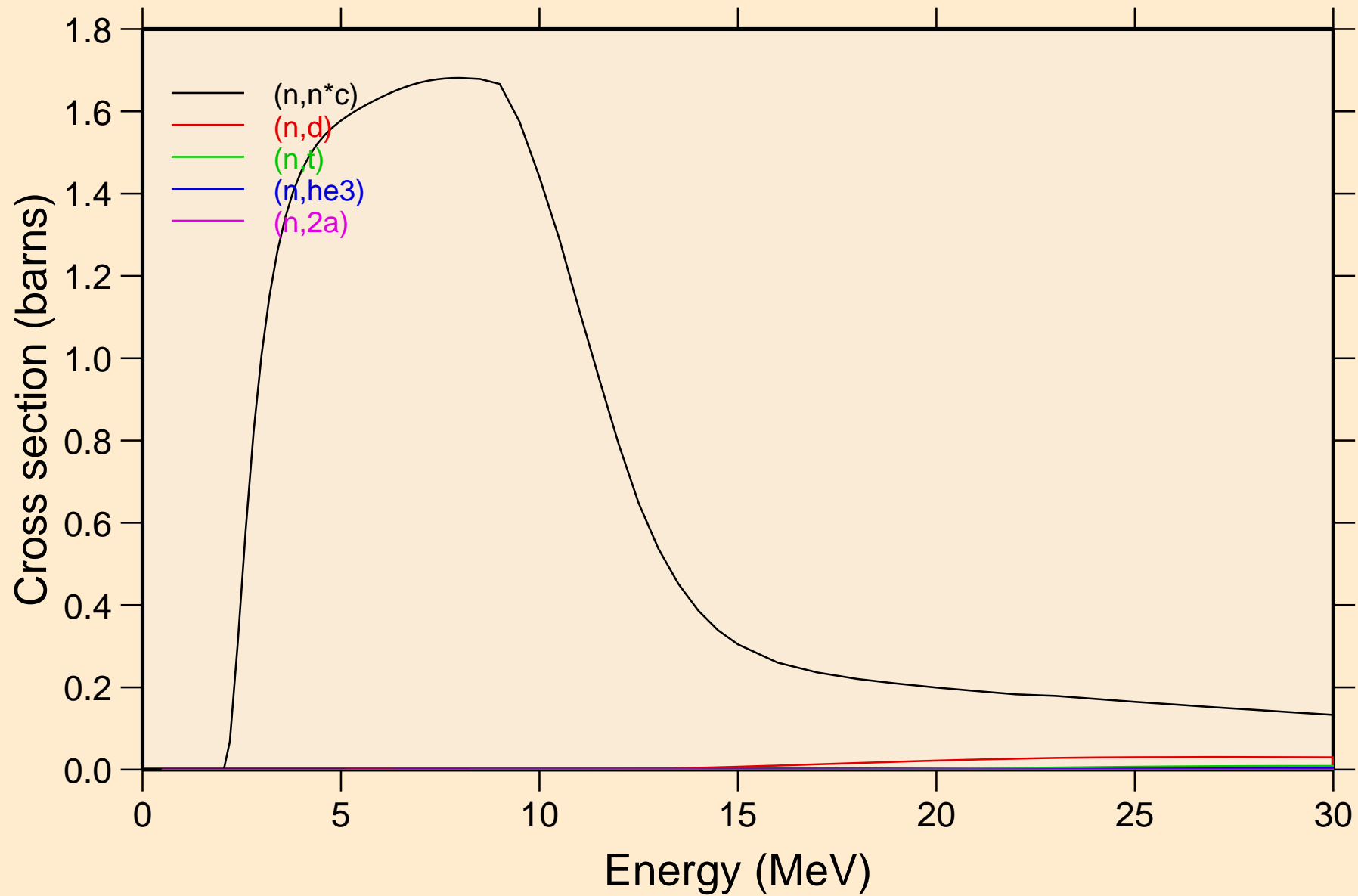
# ZR089M NRG TENDL-2015, AKONING

## Threshold reactions



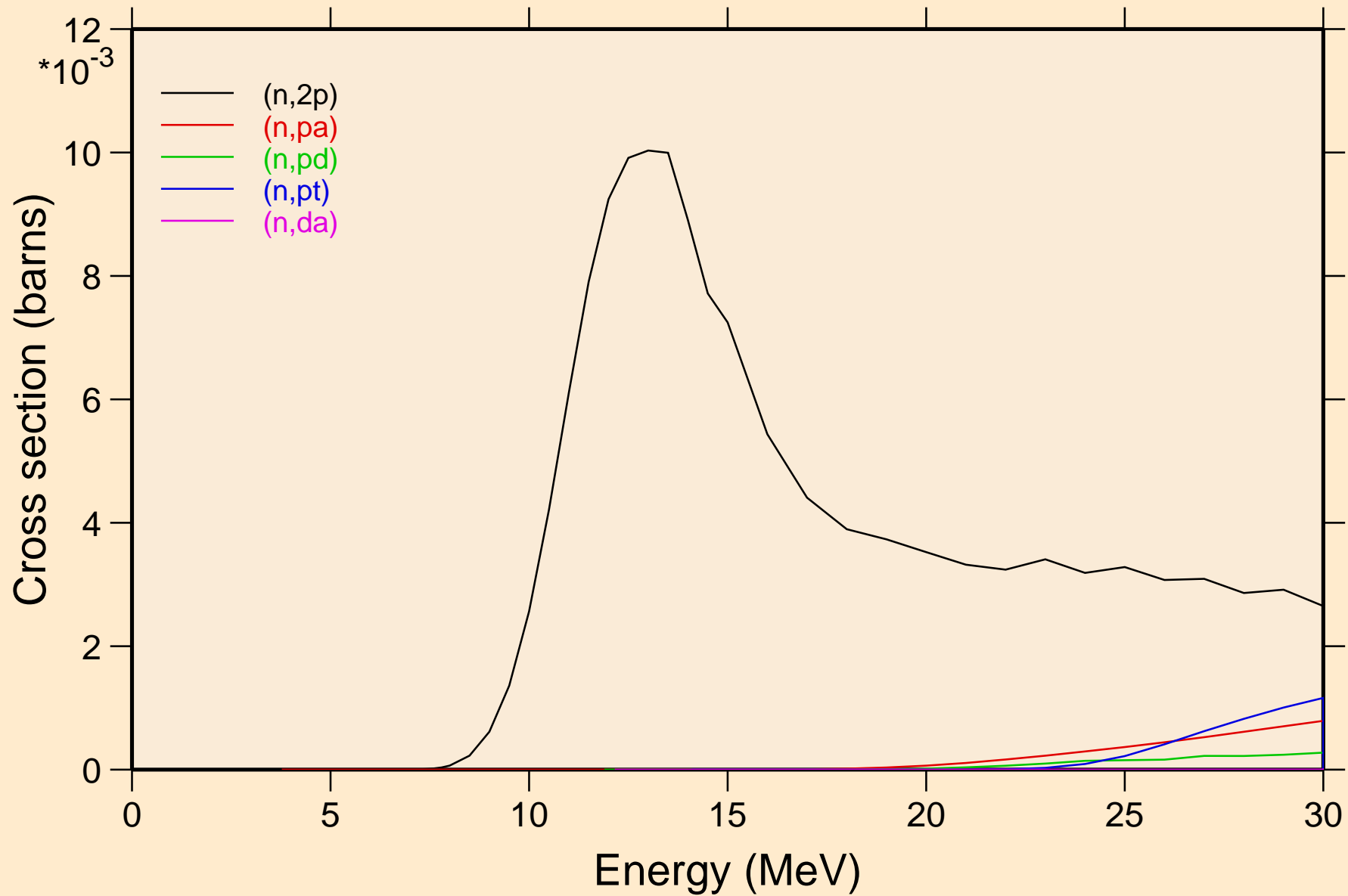
# ZR089M NRG TENDL-2015, AKONING

## Threshold reactions

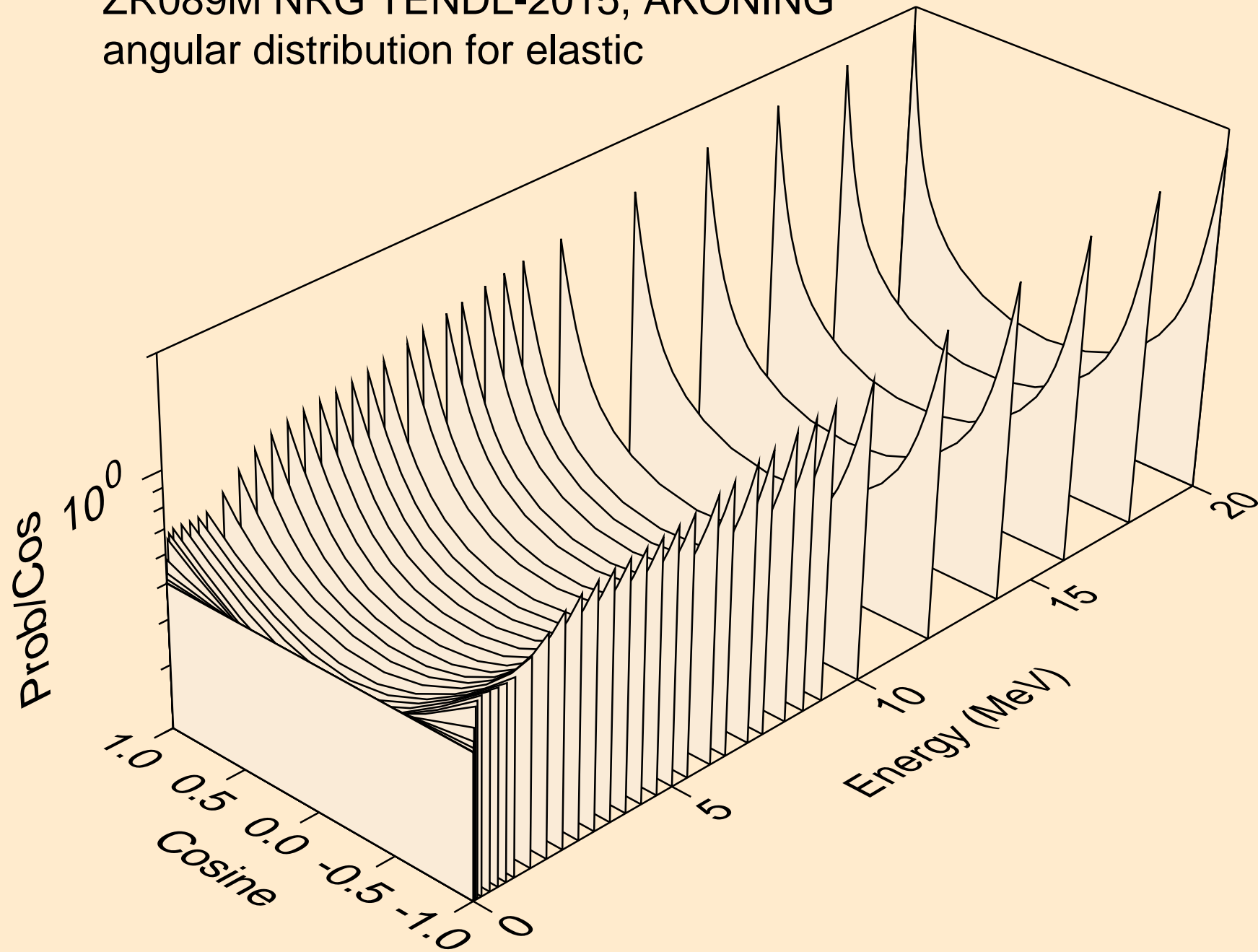


# ZR089M NRG TENDL-2015, AKONING

## Threshold reactions

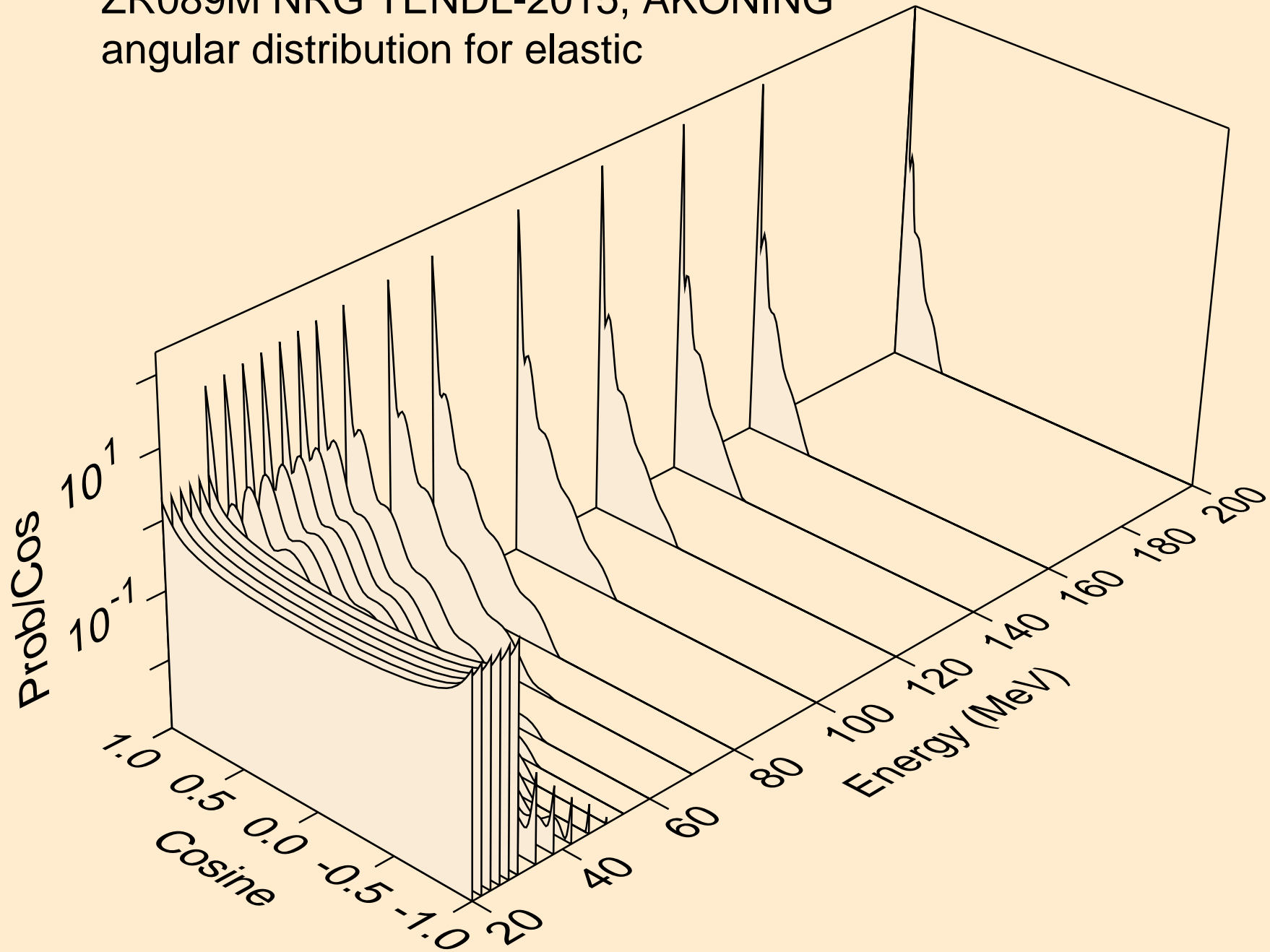


ZR089M NRG TENDL-2015, AKONING  
angular distribution for elastic

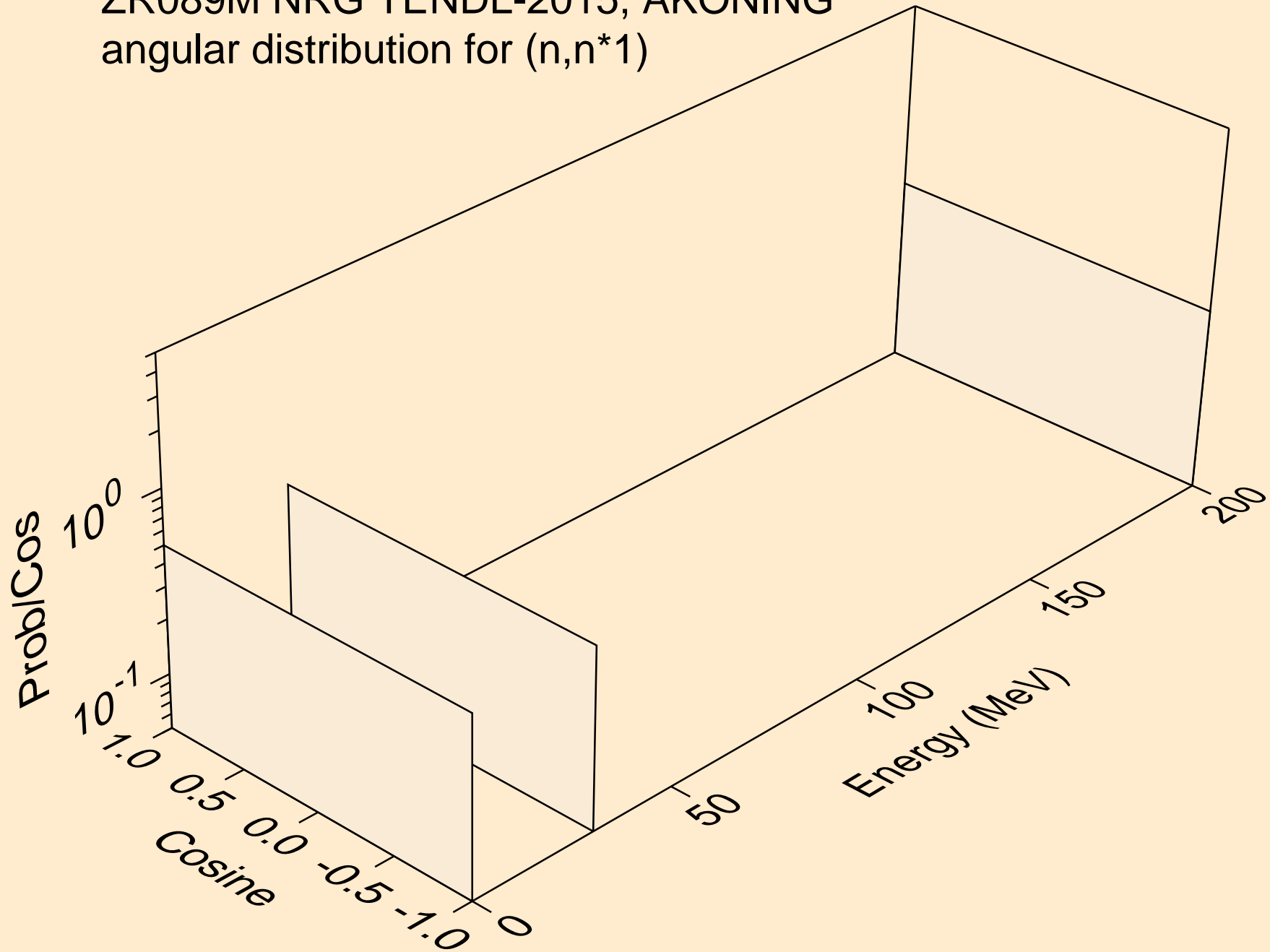




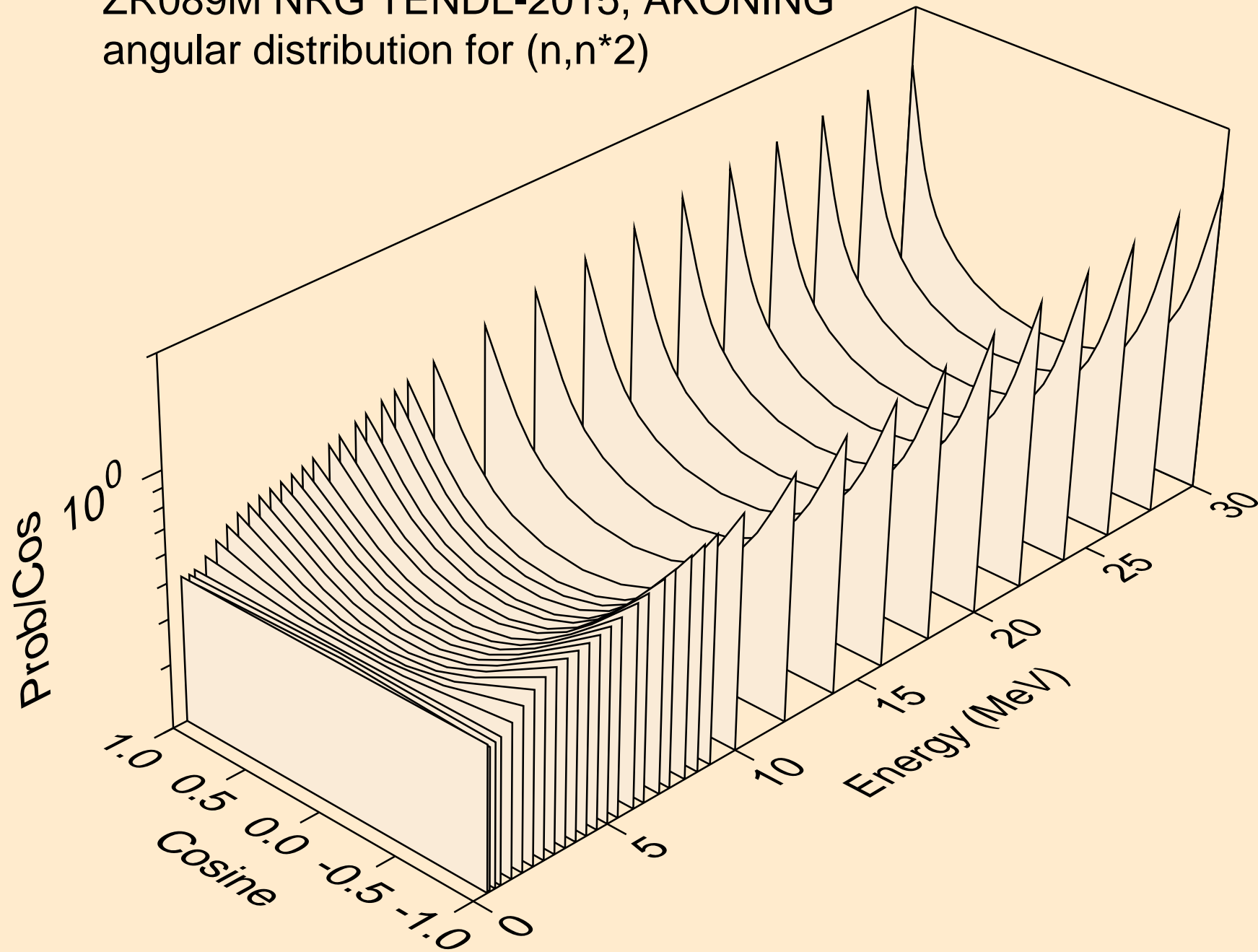
ZR089M NRG TENDL-2015, AKONING  
angular distribution for elastic



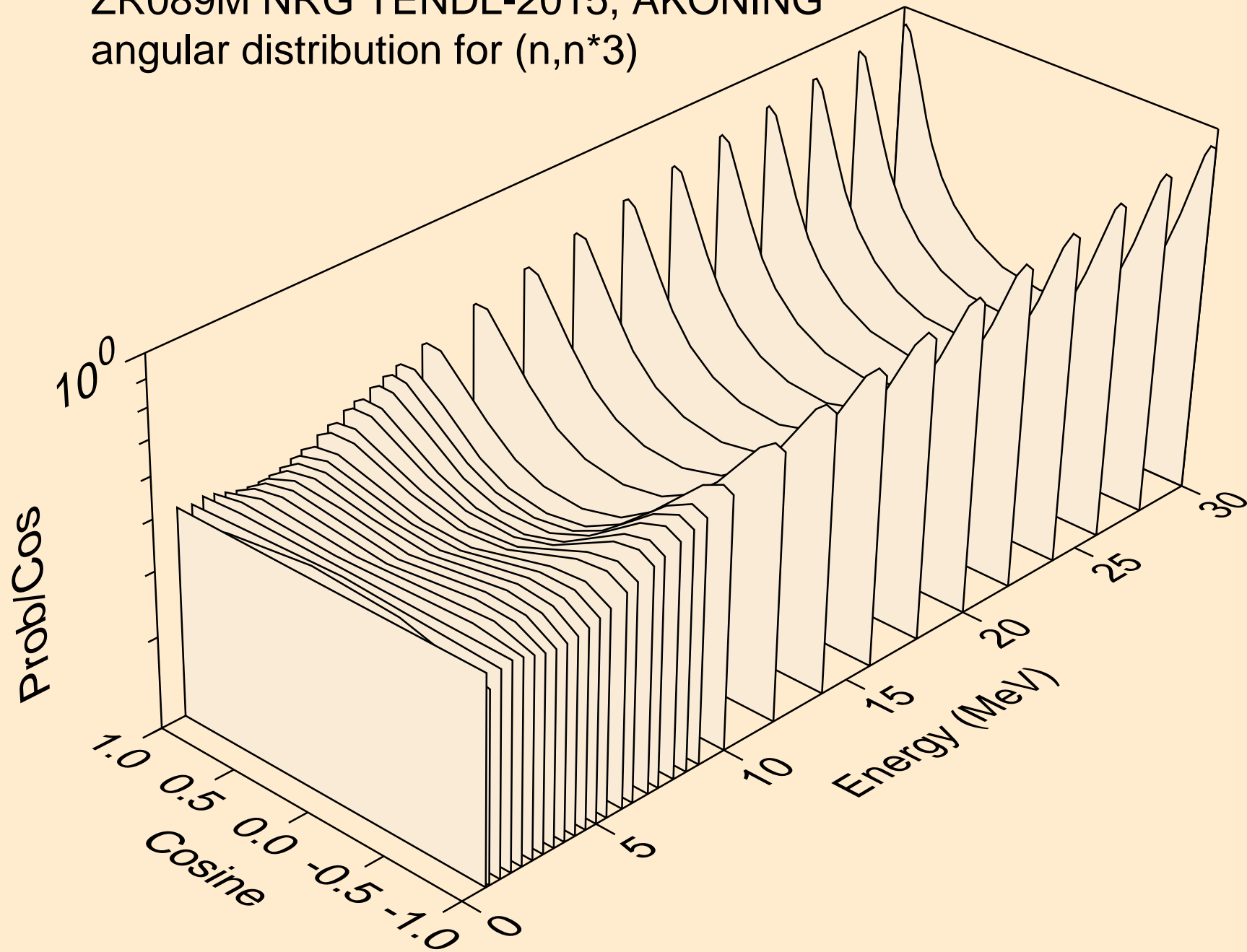
ZR089M NRG TENDL-2015, AKONING  
angular distribution for (n,n\*1)



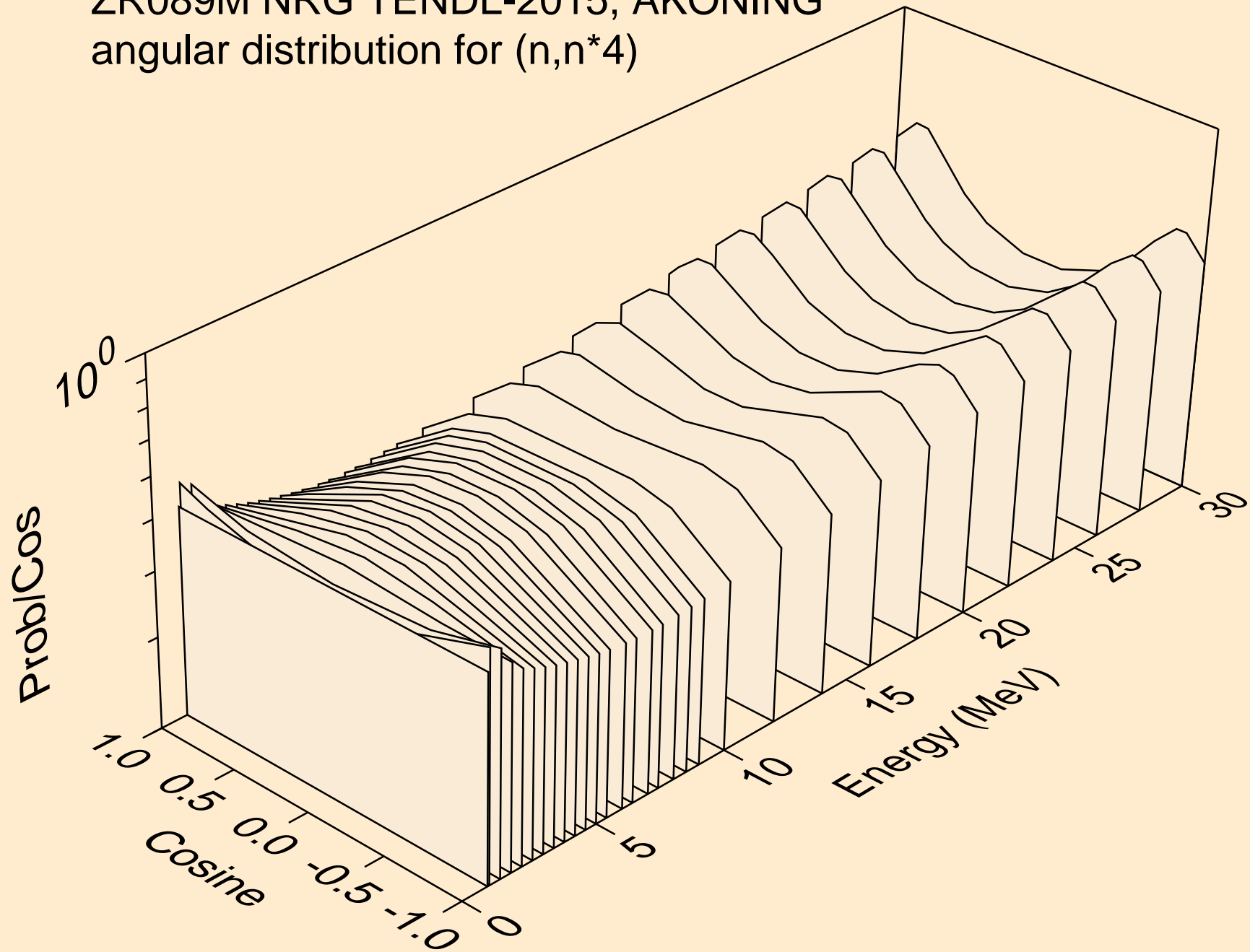
ZR089M NRG TENDL-2015, AKONING  
angular distribution for (n,n\*2)



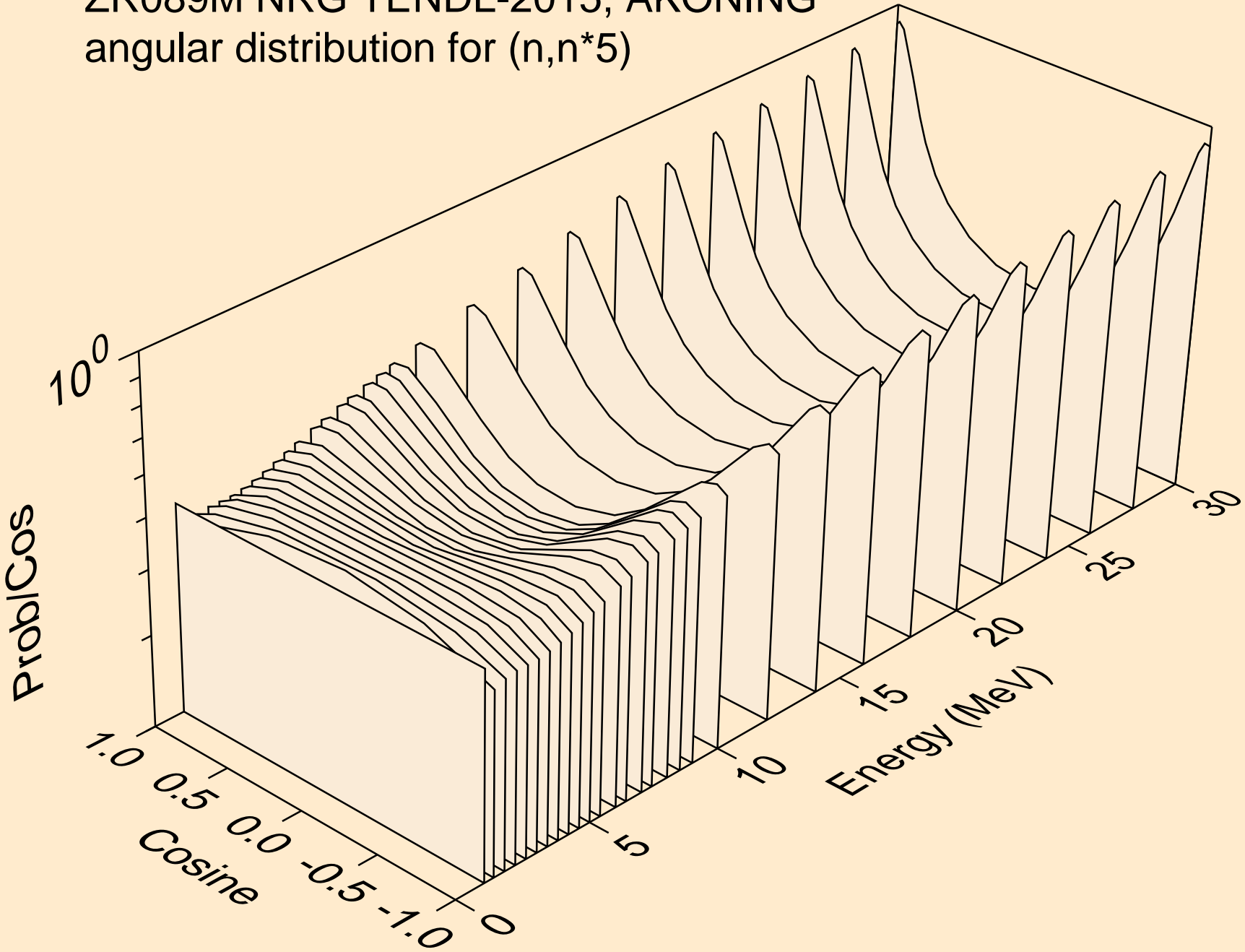
ZR089M NRG TENDL-2015, AKONING  
angular distribution for (n,n\*3)



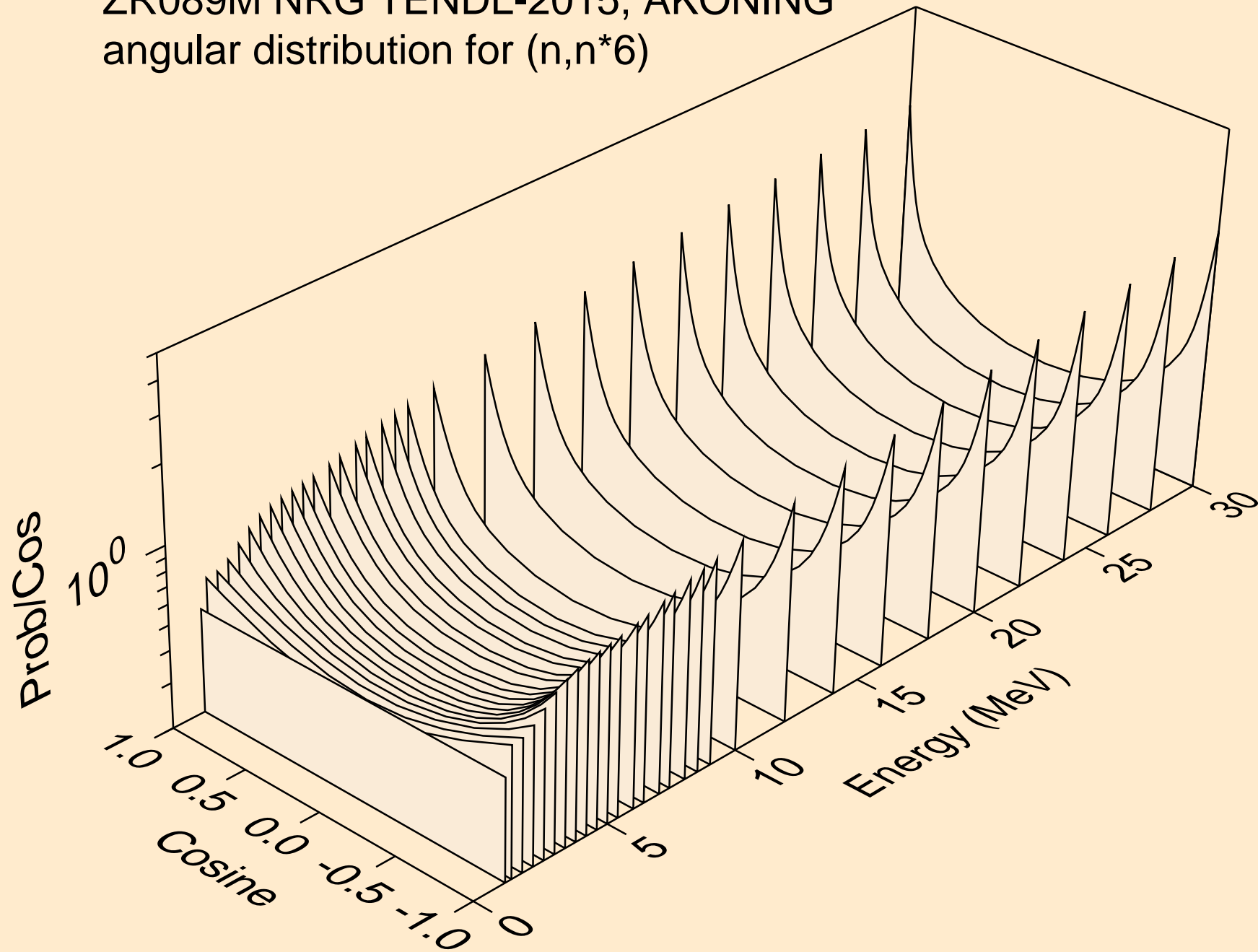
ZR089M NRG TENDL-2015, AKONING  
angular distribution for (n,n\*4)



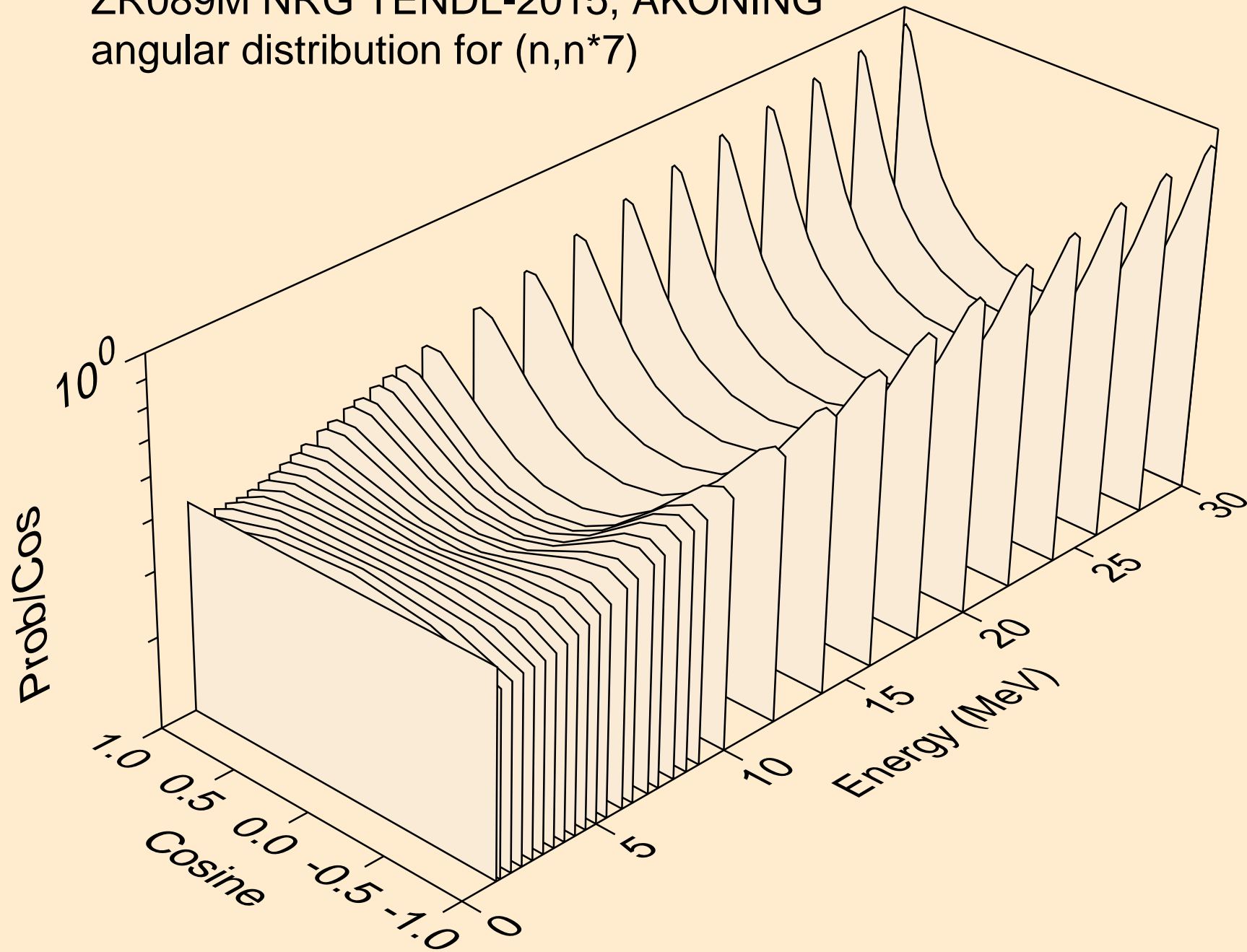
ZR089M NRG TENDL-2015, AKONING  
angular distribution for (n,n\*5)



ZR089M NRG TENDL-2015, AKONING  
angular distribution for (n,n\*6)

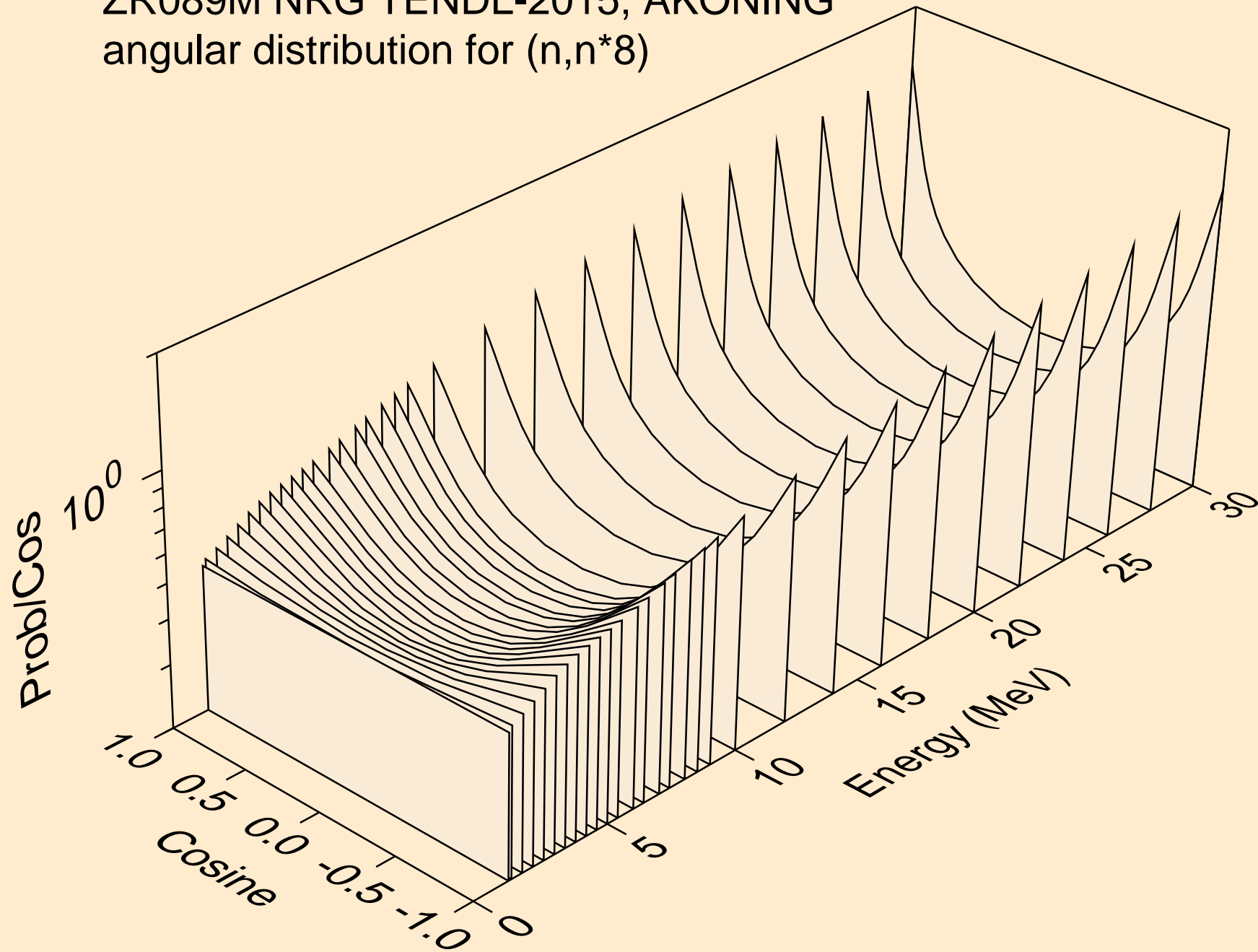


ZR089M NRG TENDL-2015, AKONING  
angular distribution for (n,n\*7)

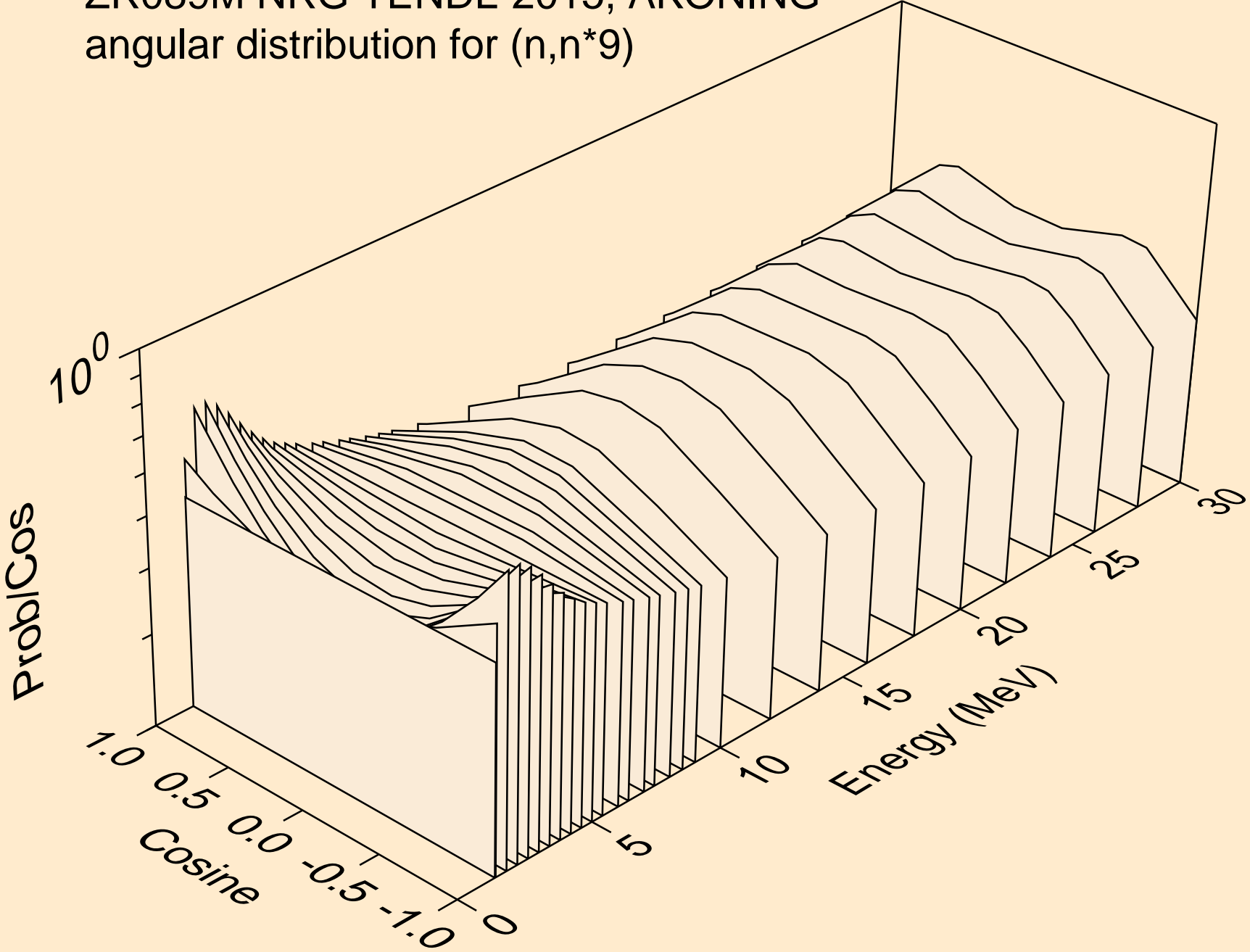




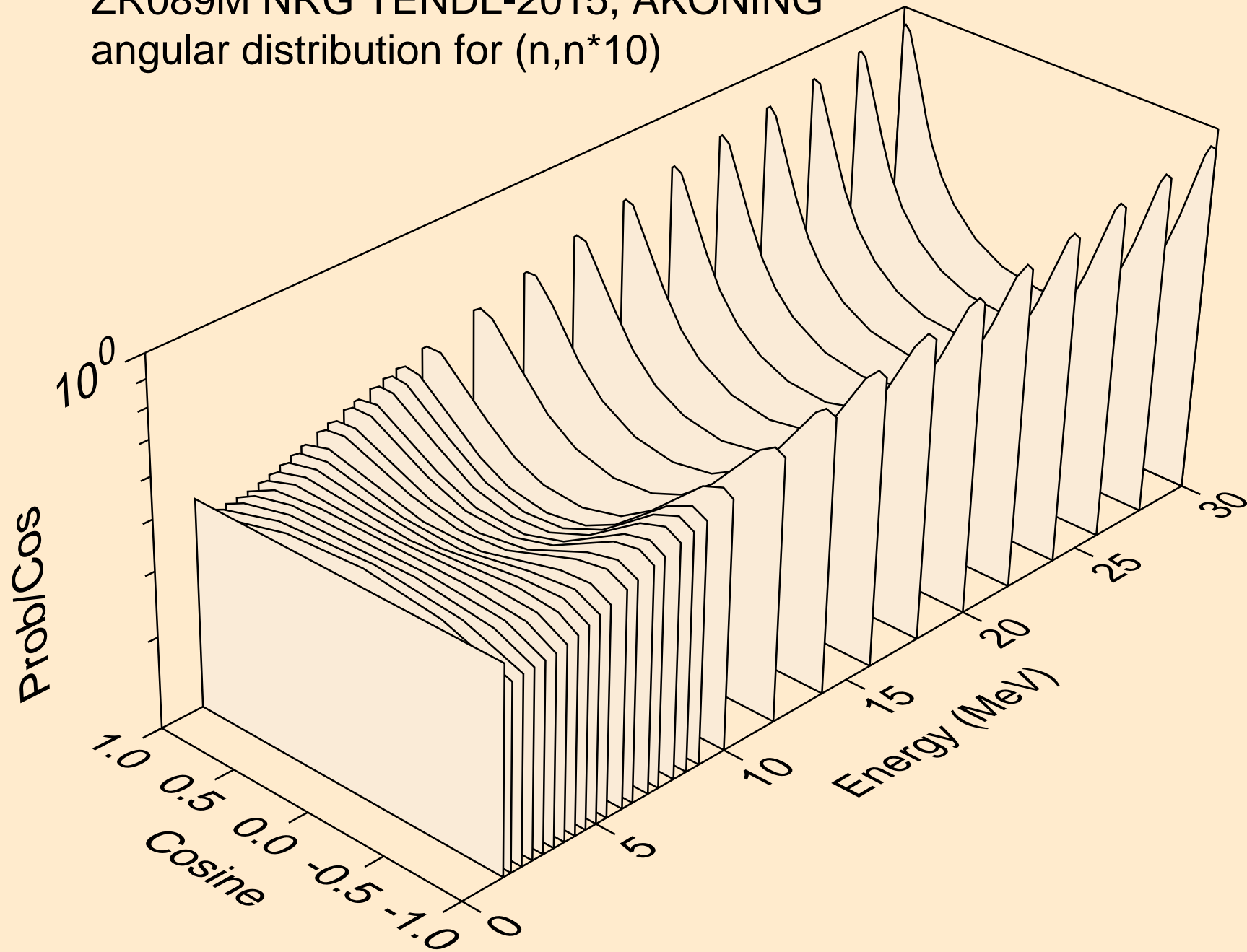
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angular distribution for (n,n\*8)



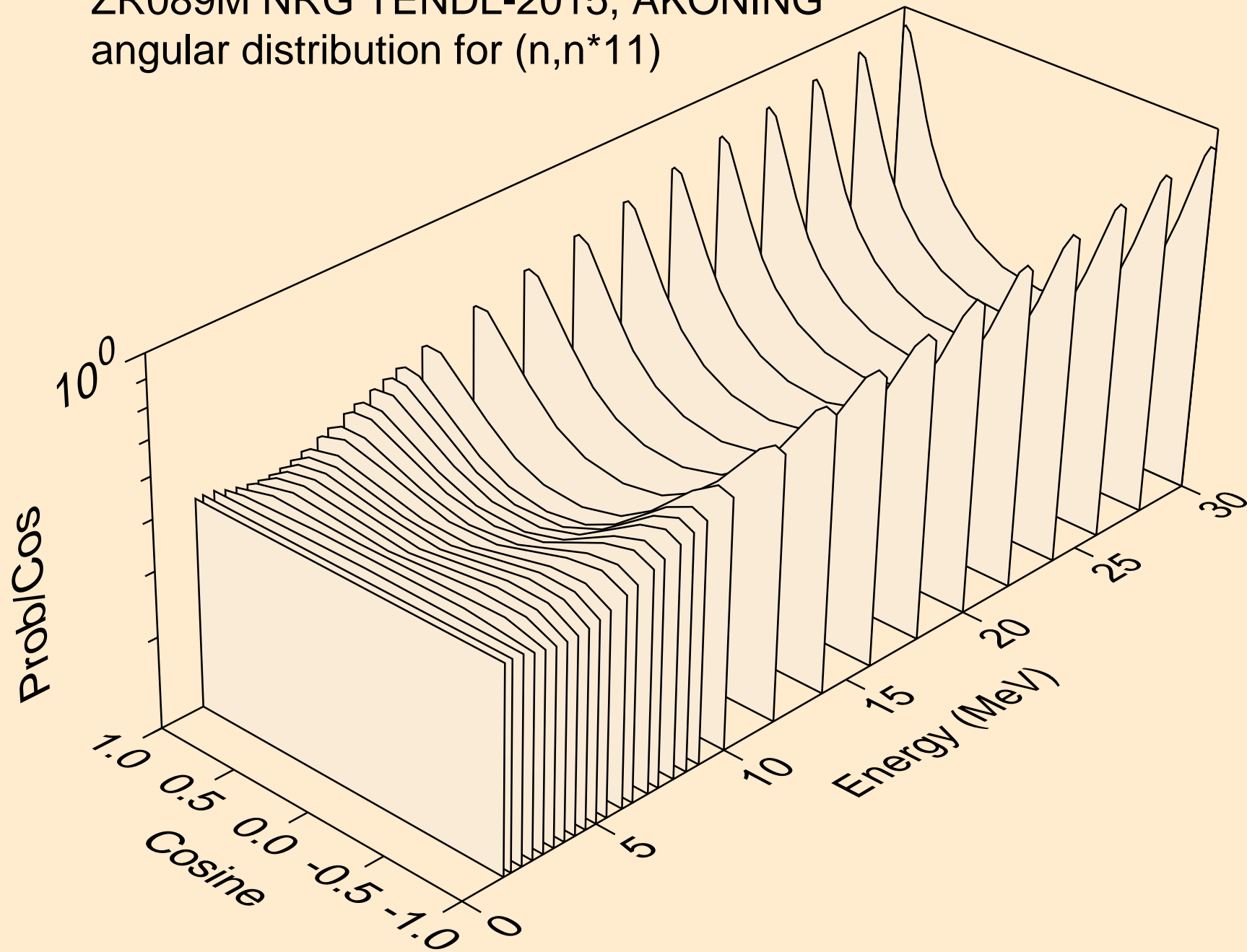
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angular distribution for (n,n\*9)



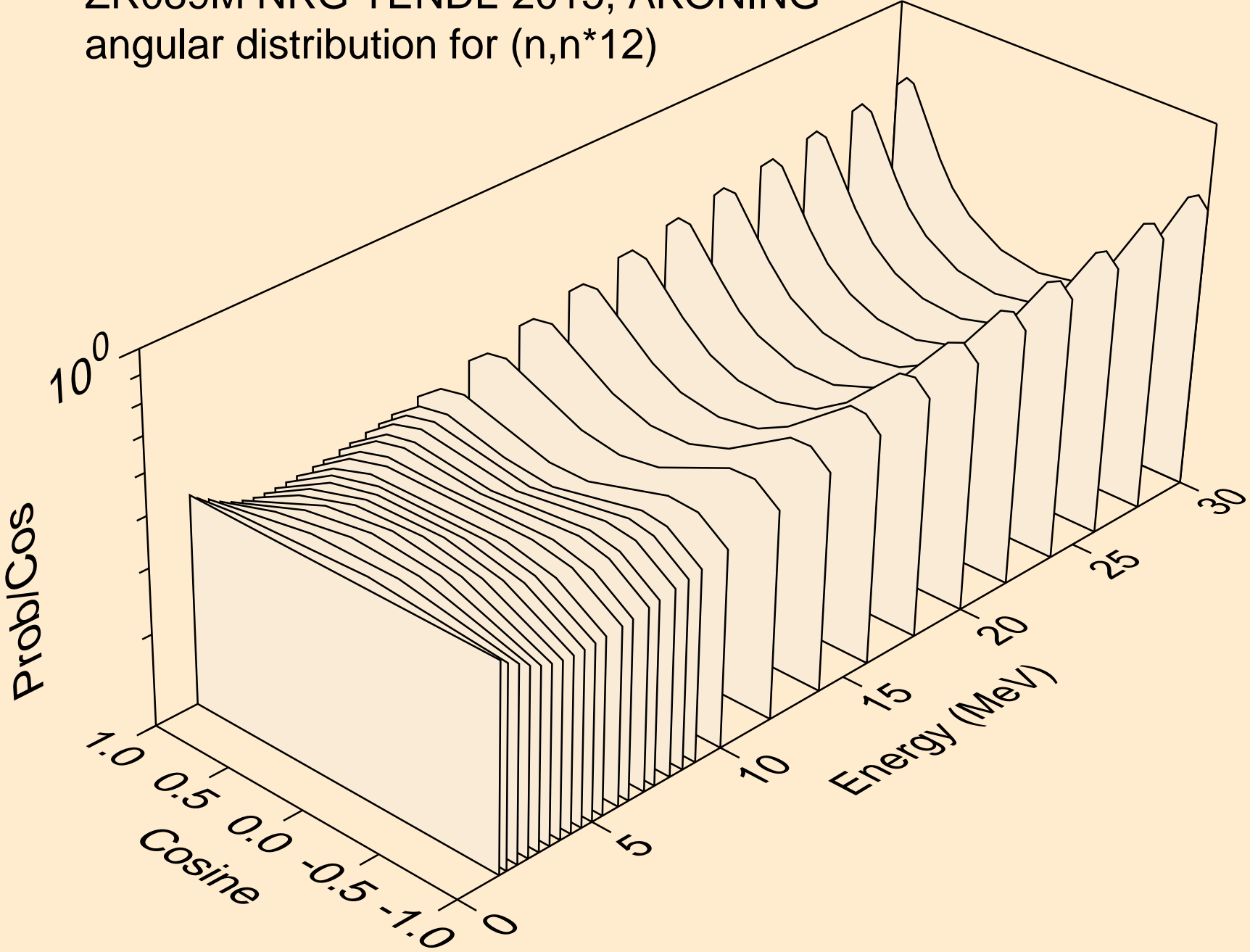
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angular distribution for (n,n\*10)



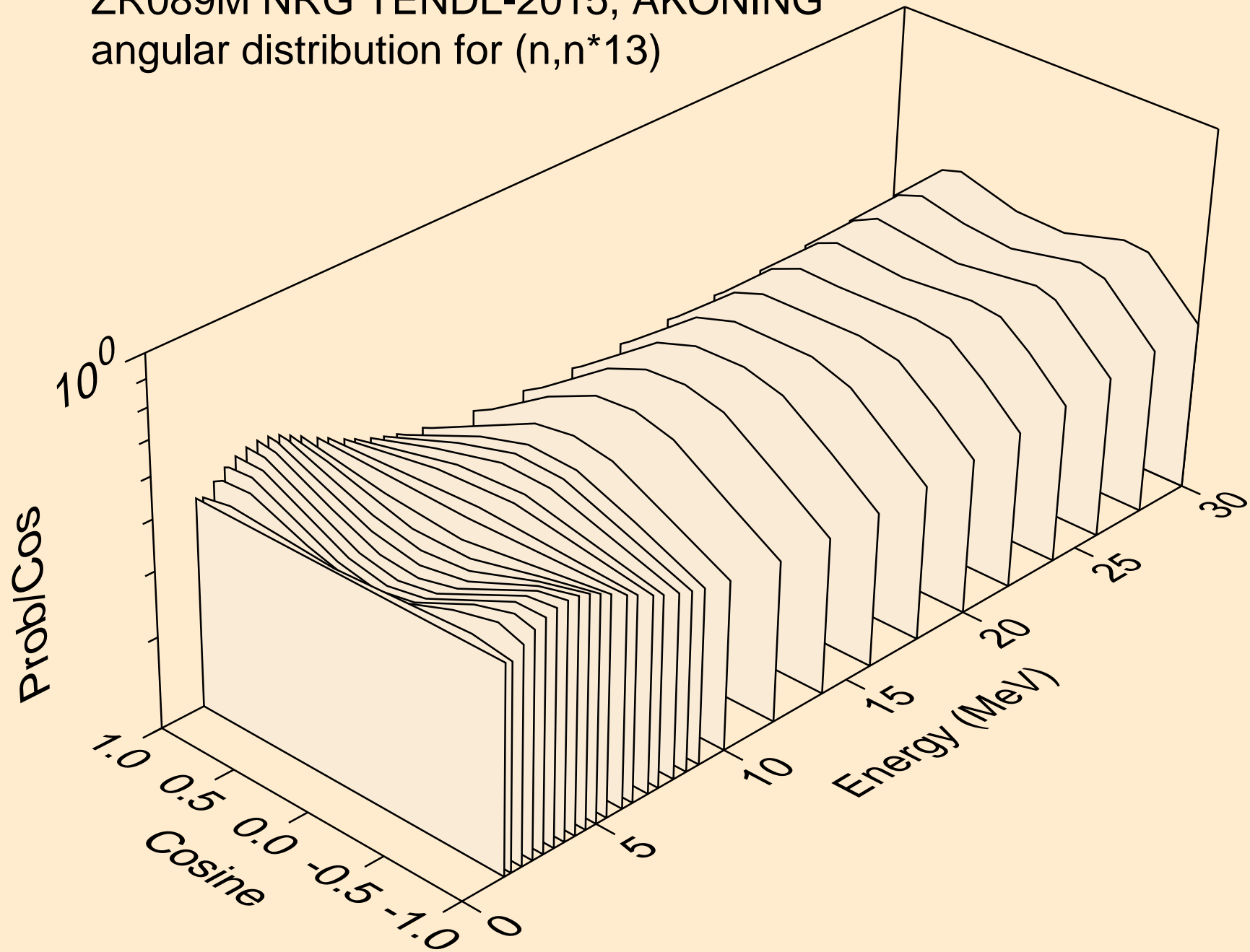
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angular distribution for (n,n\*11)



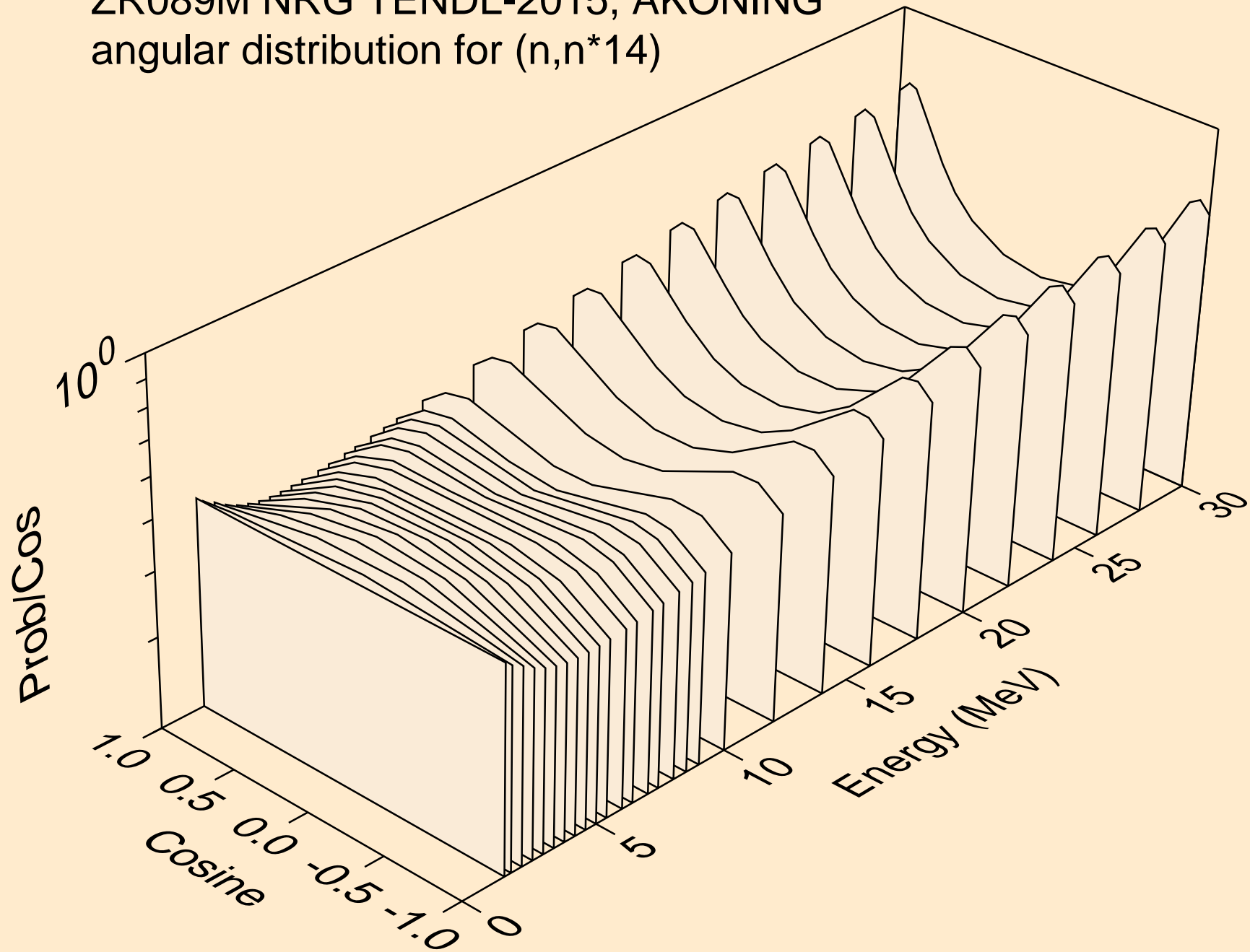
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angular distribution for (n,n\*12)



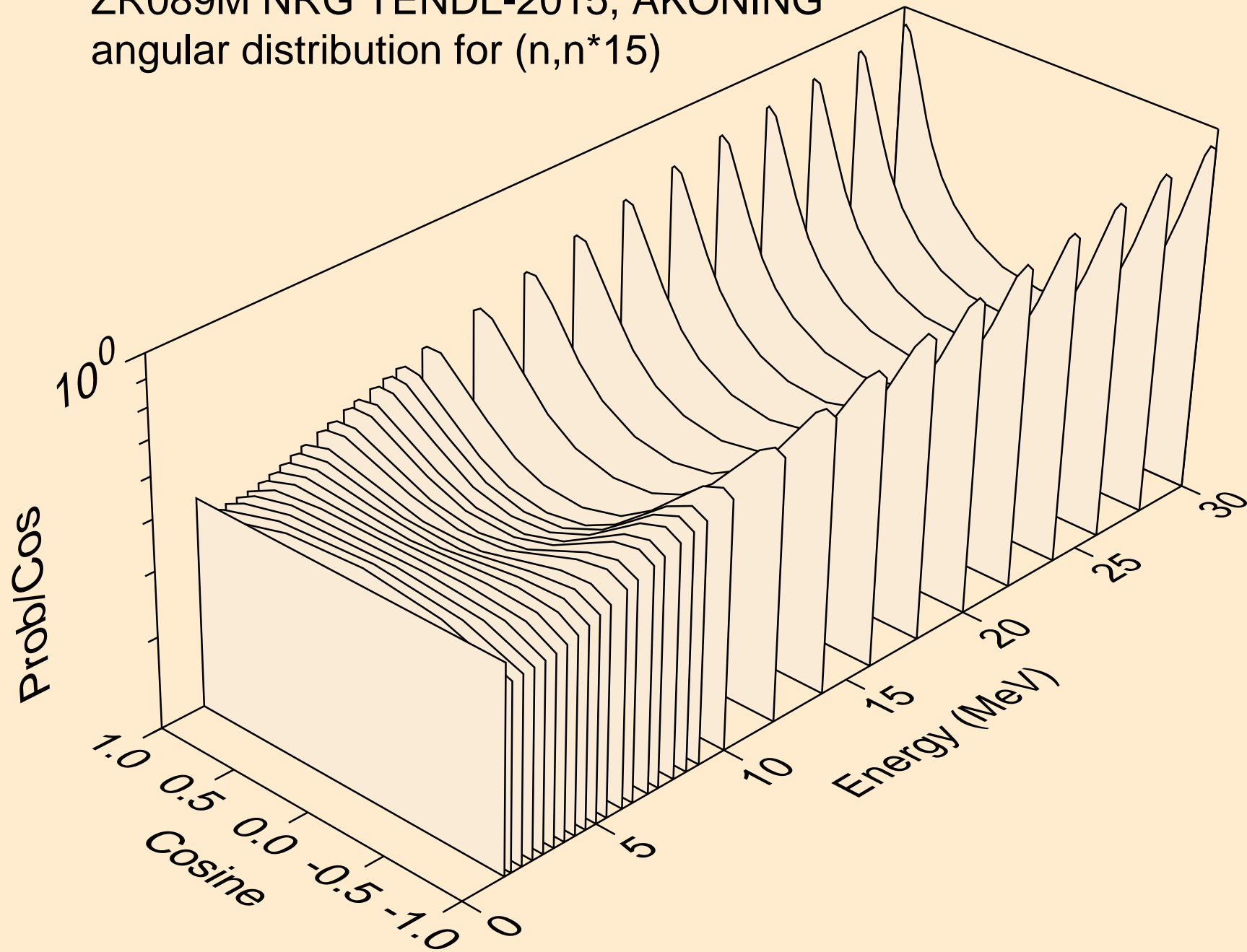
ZR089M NRG TENDL-2015, AKONING  
angular distribution for (n,n\*13)



ZR089M NRG TENDL-2015, AKONING  
angular distribution for (n,n\*14)

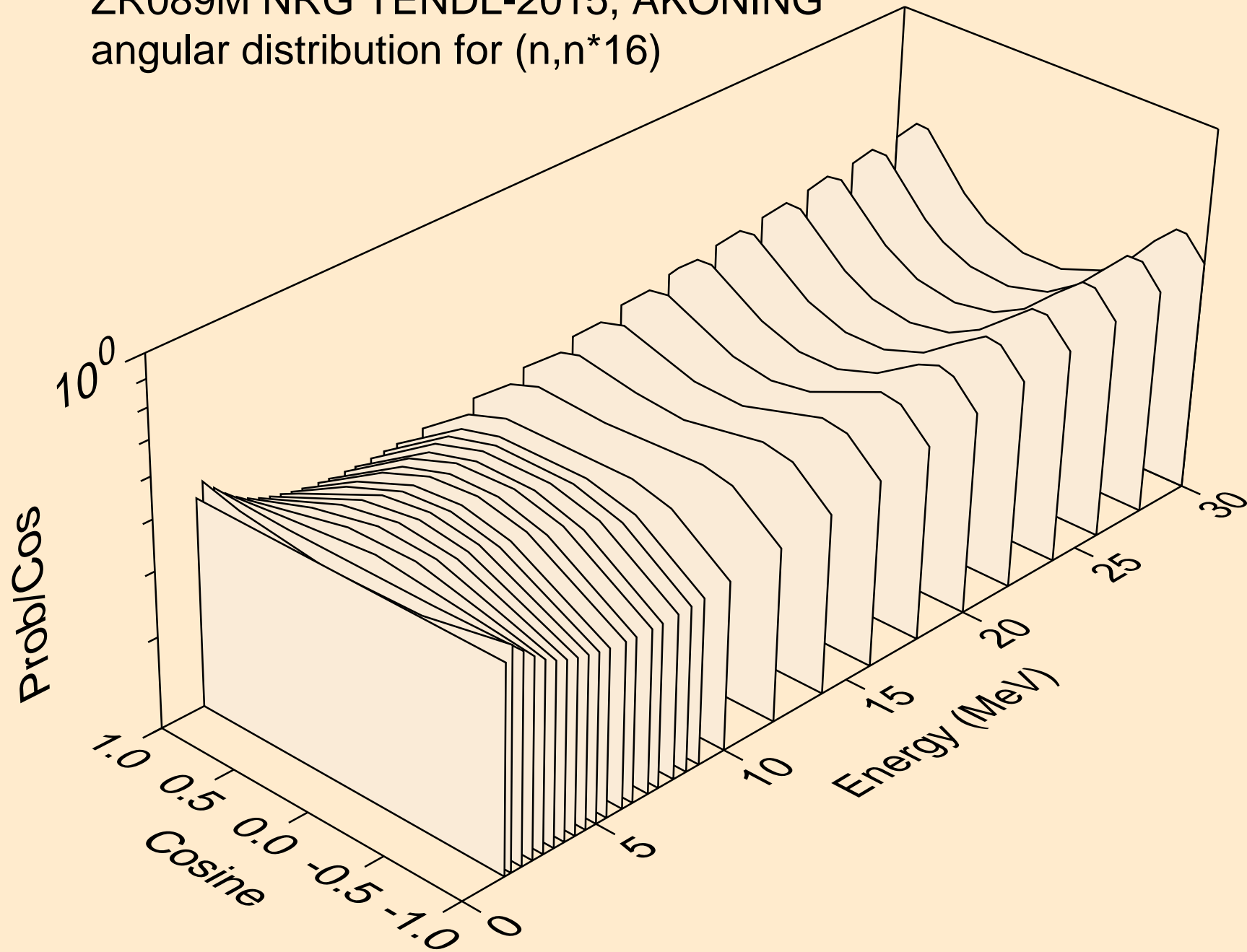


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angular distribution for (n,n\*15)

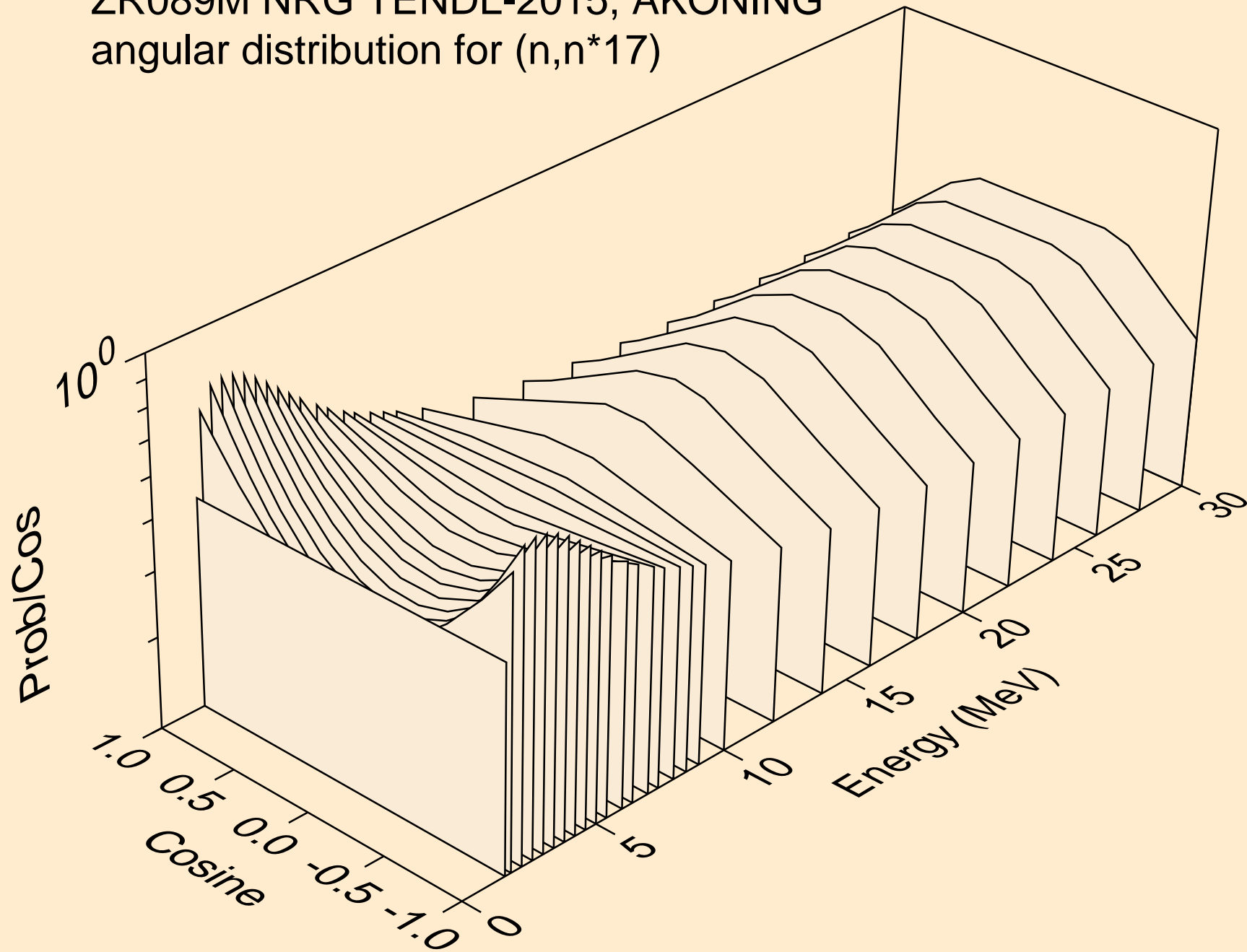




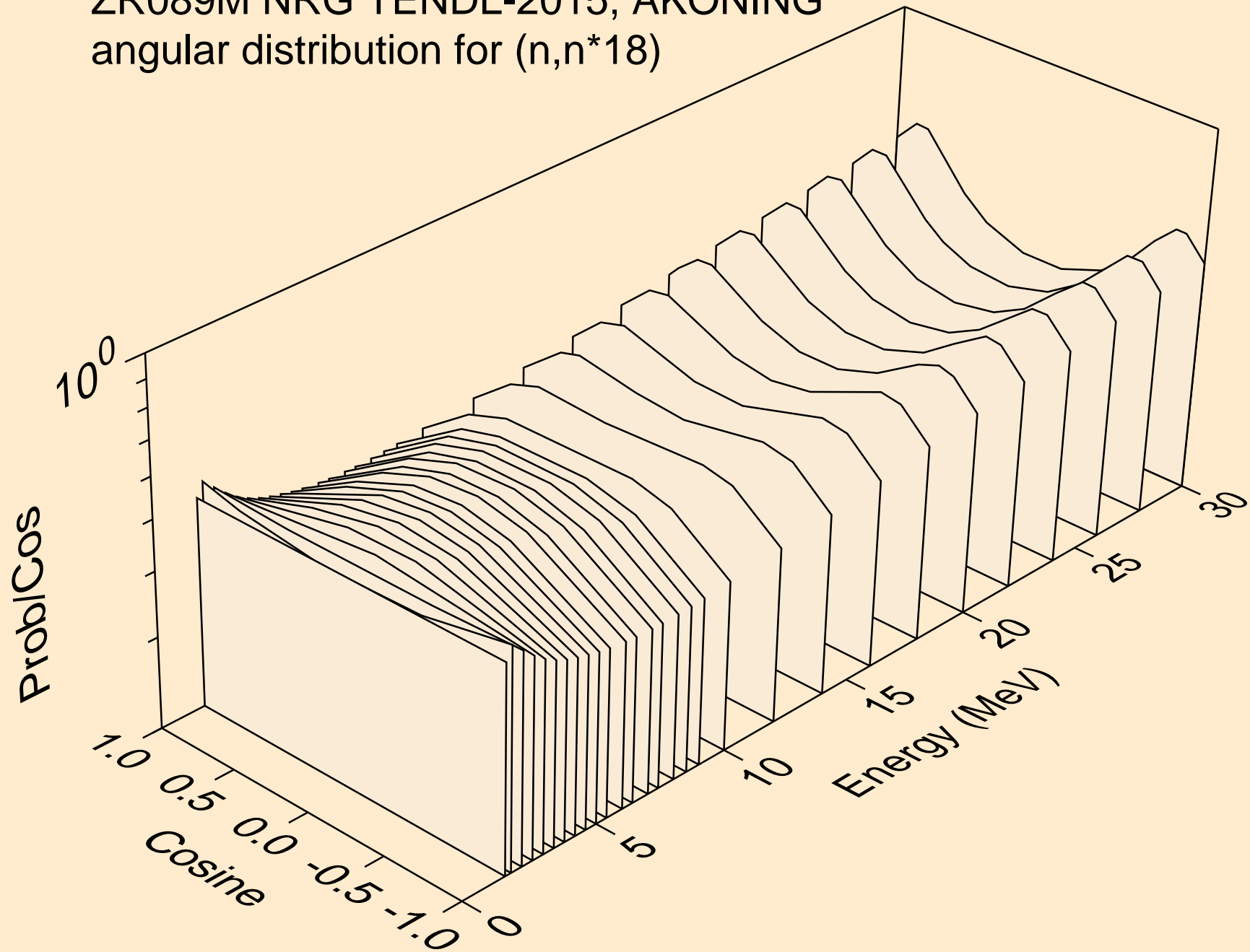
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angular distribution for (n,n\*16)



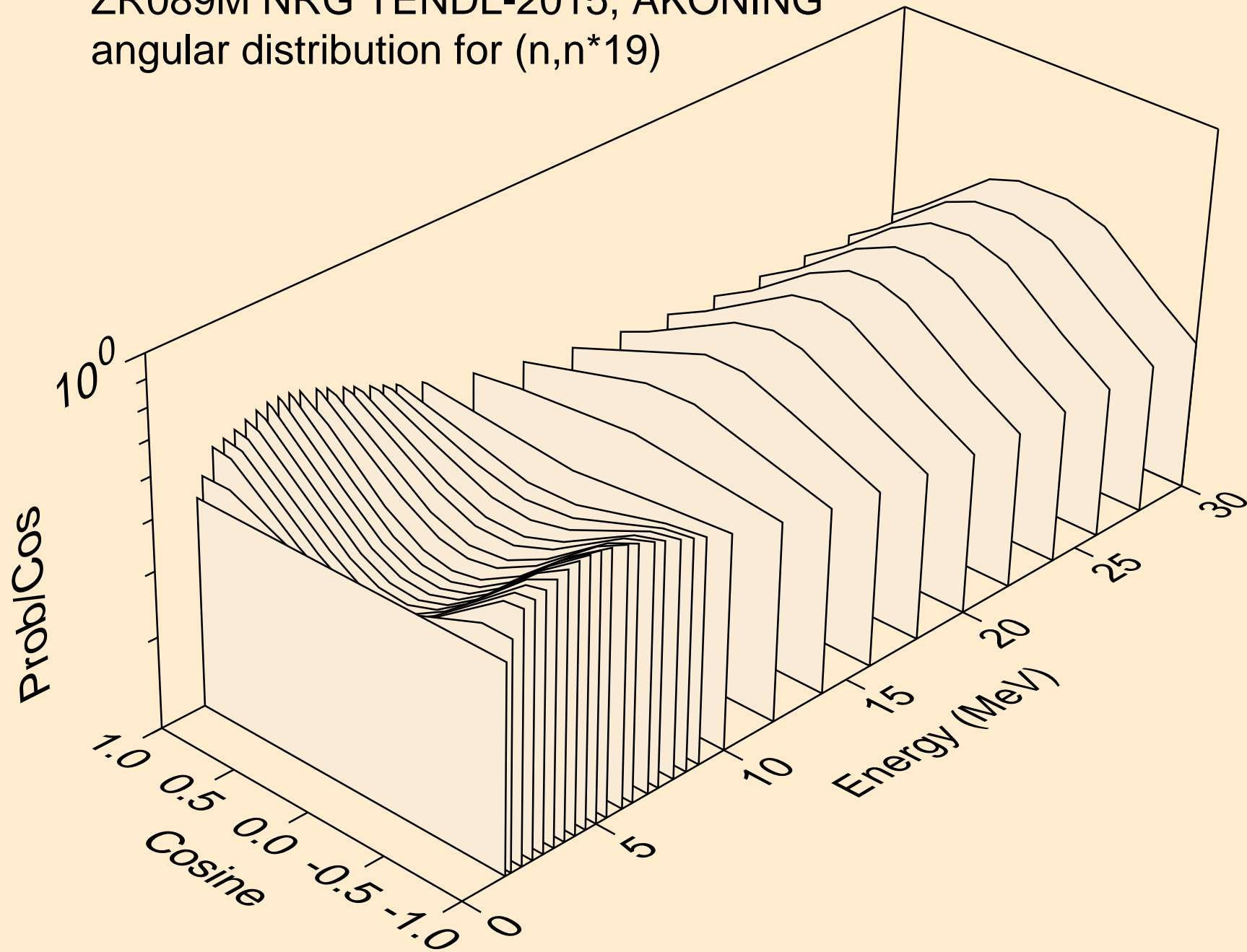
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angular distribution for (n,n\*17)



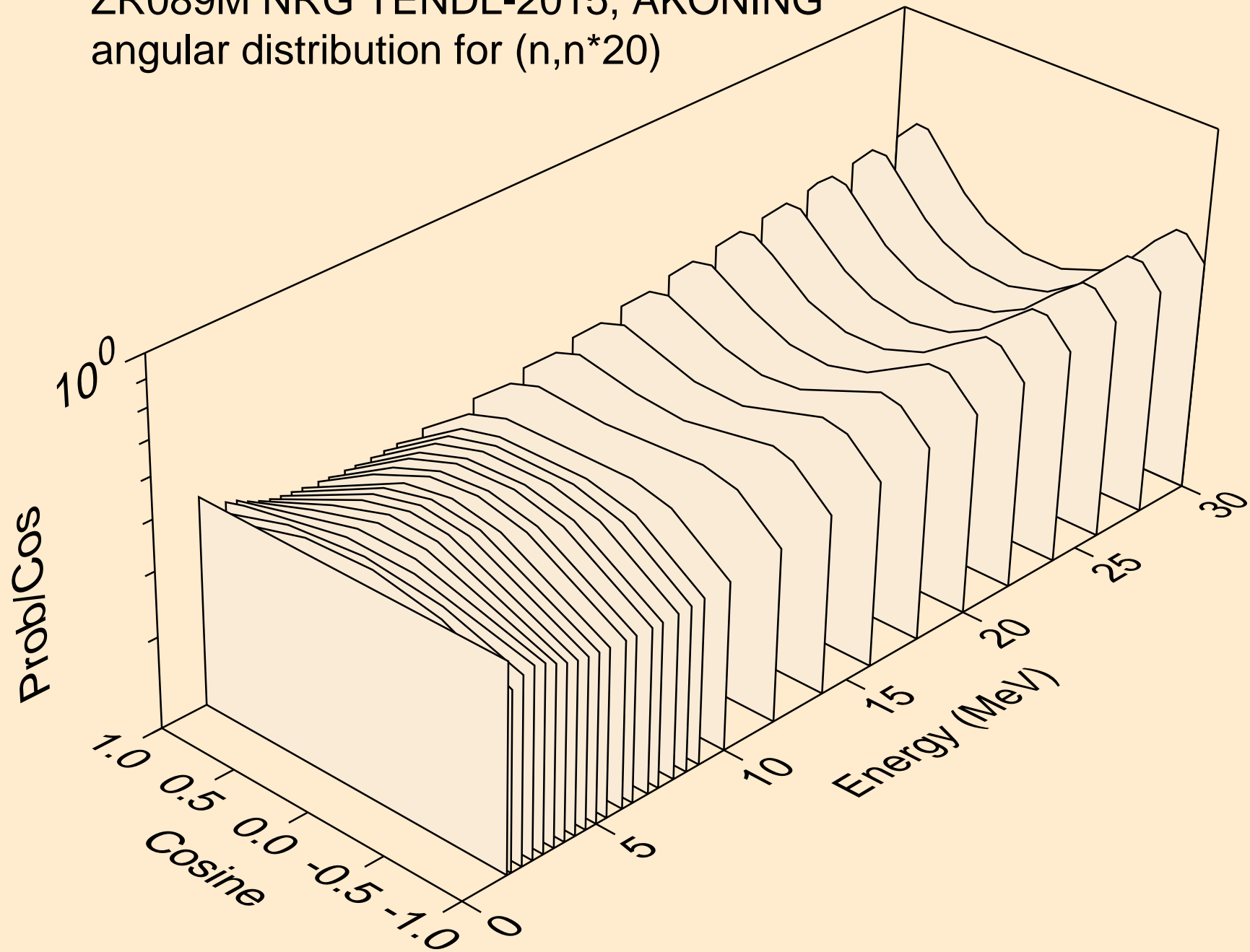
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angular distribution for (n,n\*18)



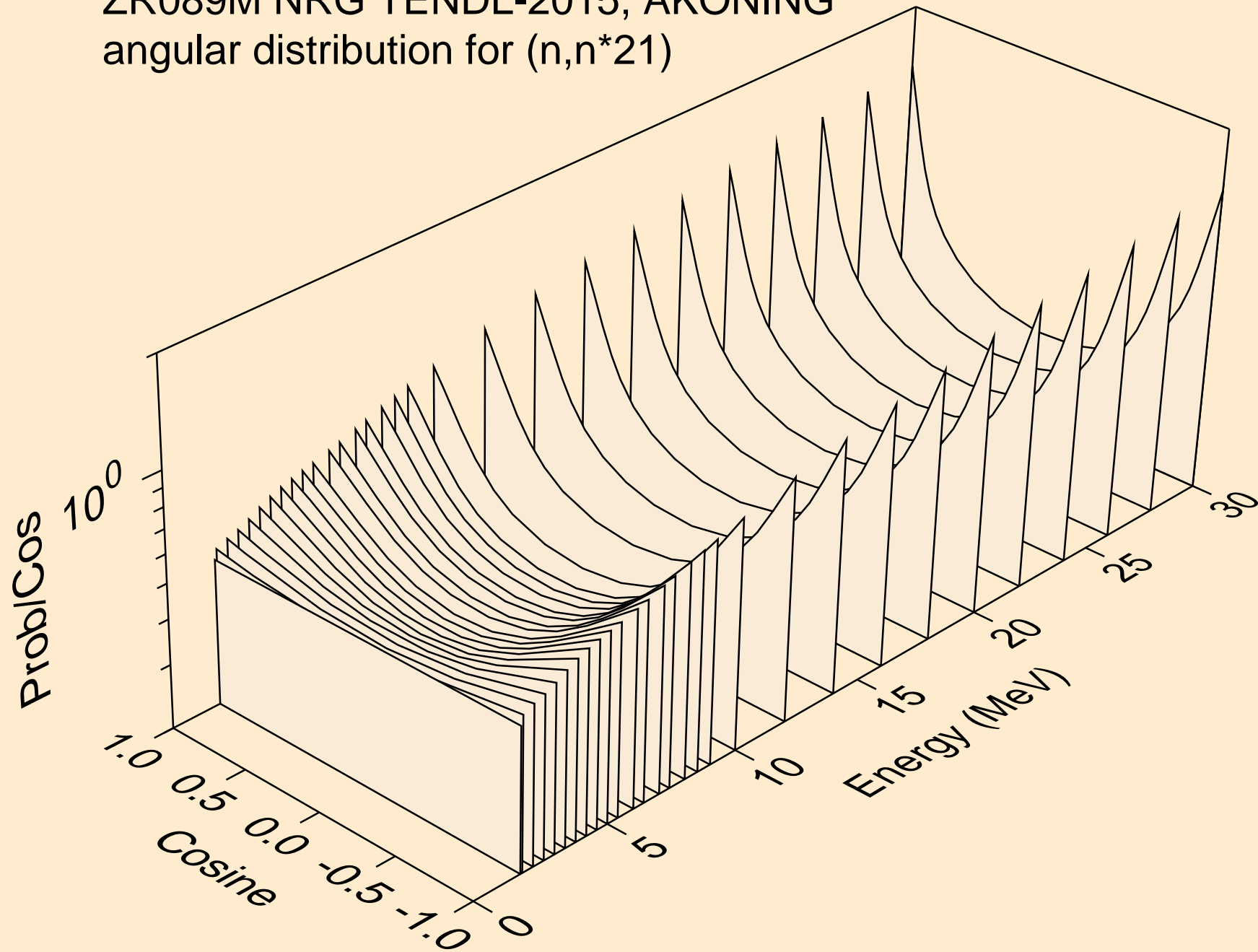
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angular distribution for (n,n\*19)



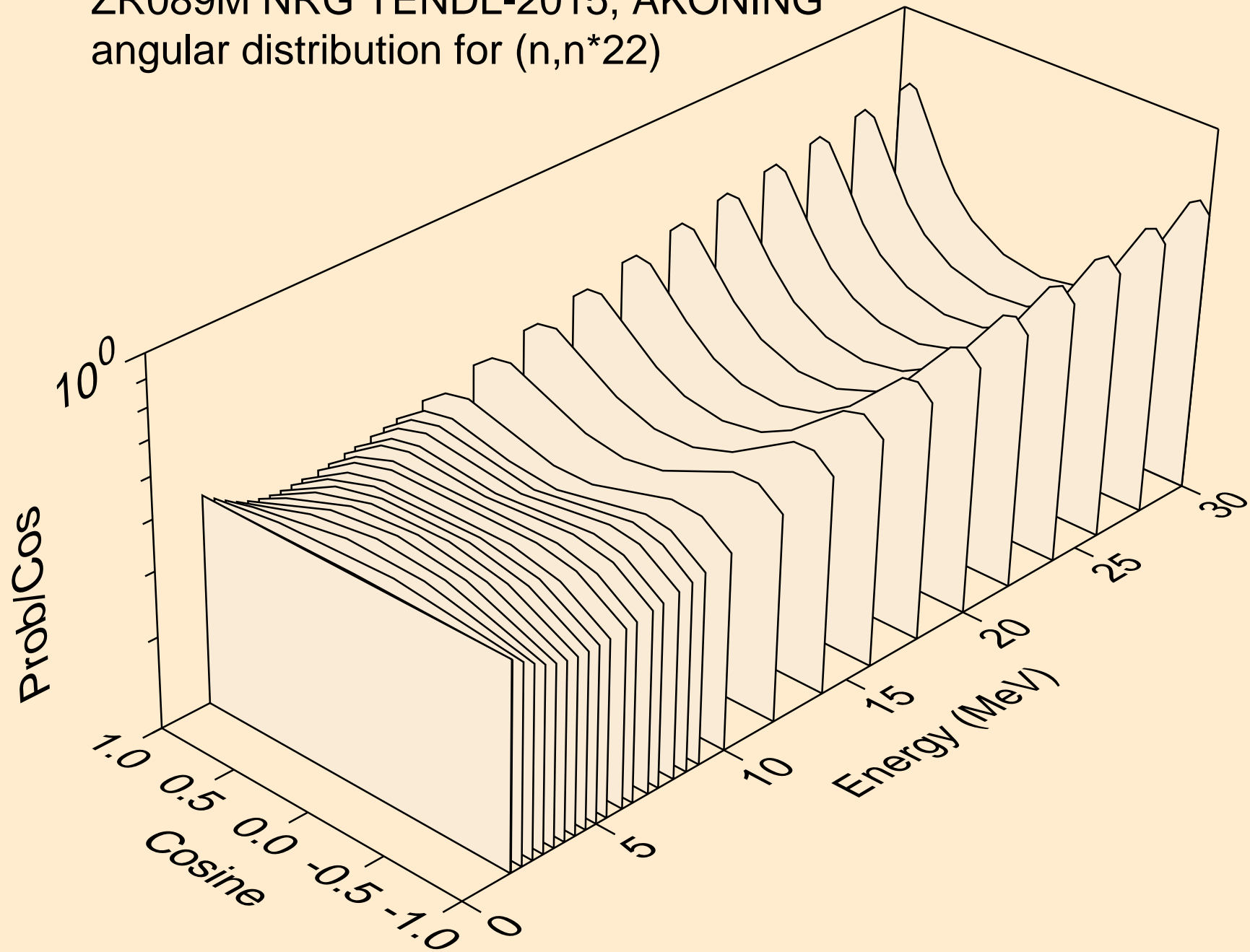
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angular distribution for (n,n\*20)



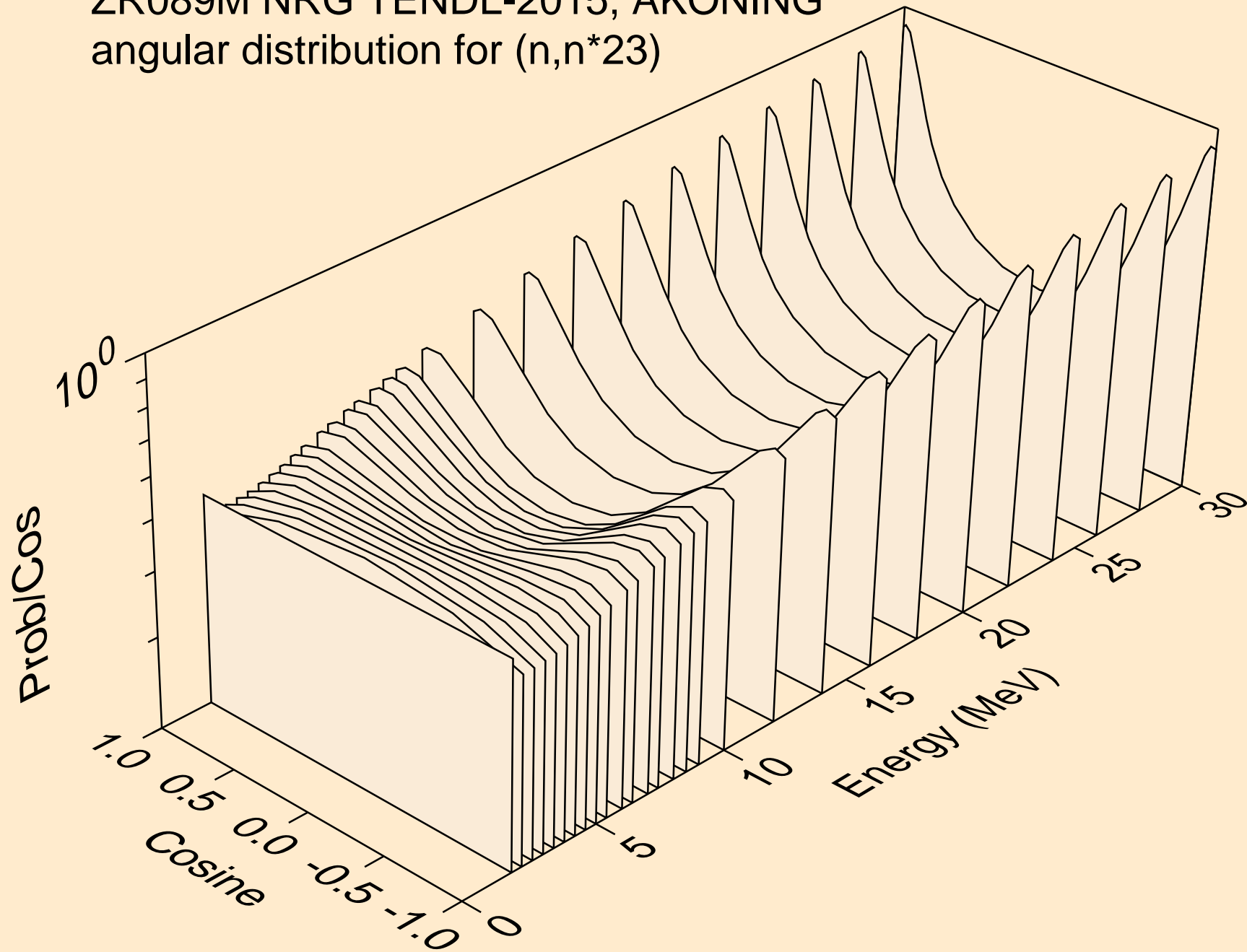
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angular distribution for (n,n\*21)



ZR089M NRG TENDL-2015, AKONING  
angular distribution for (n,n\*22)

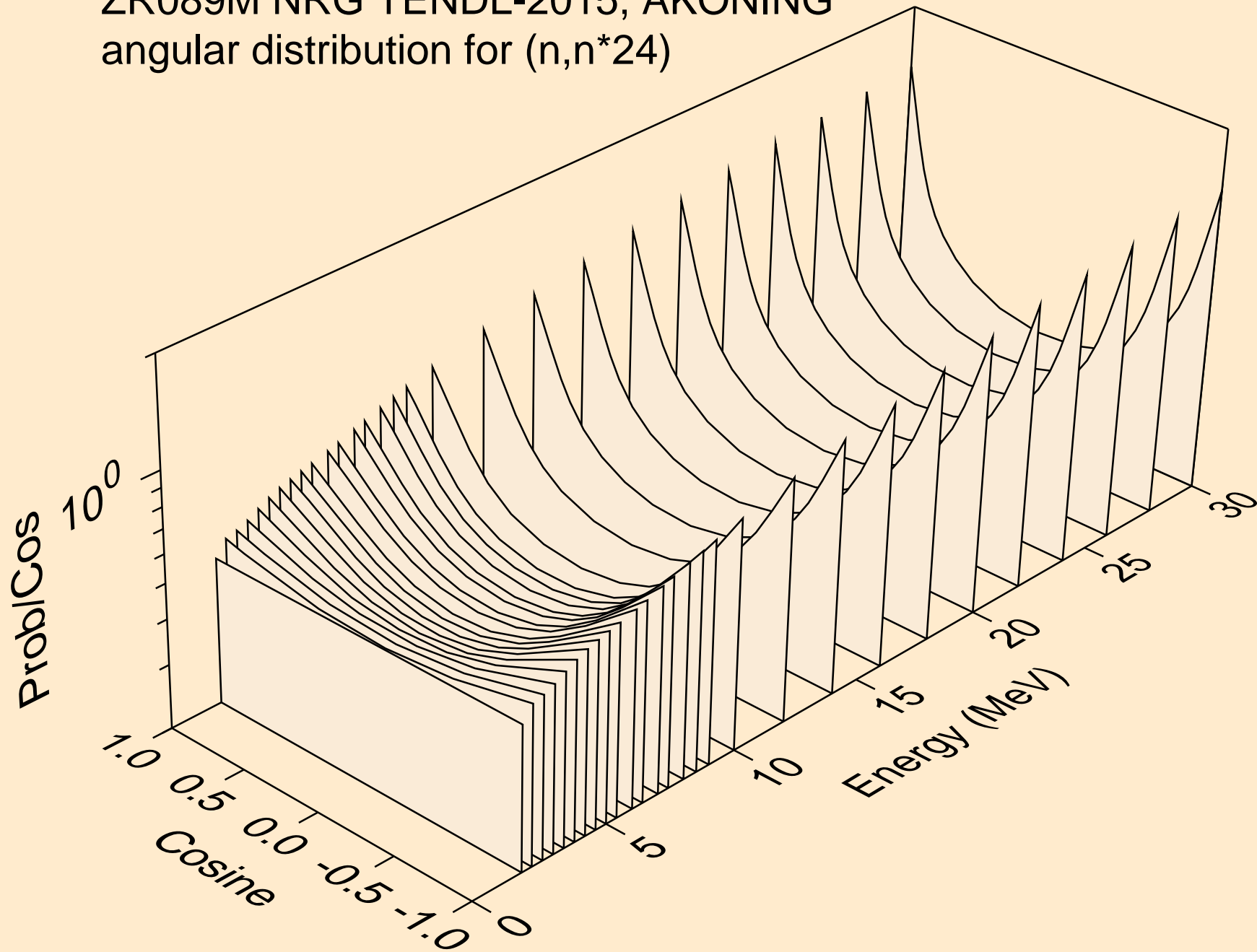


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angular distribution for (n,n\*23)

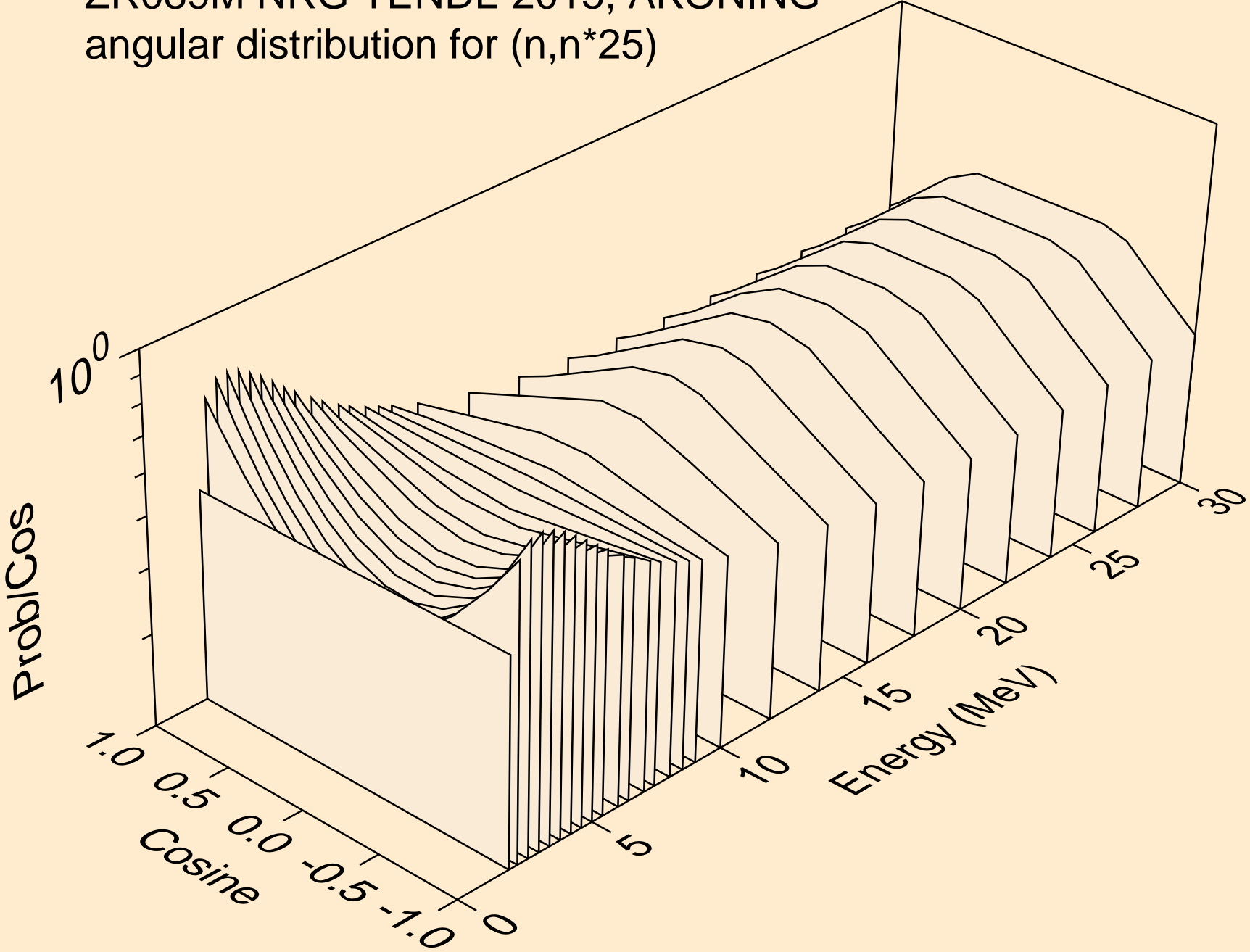




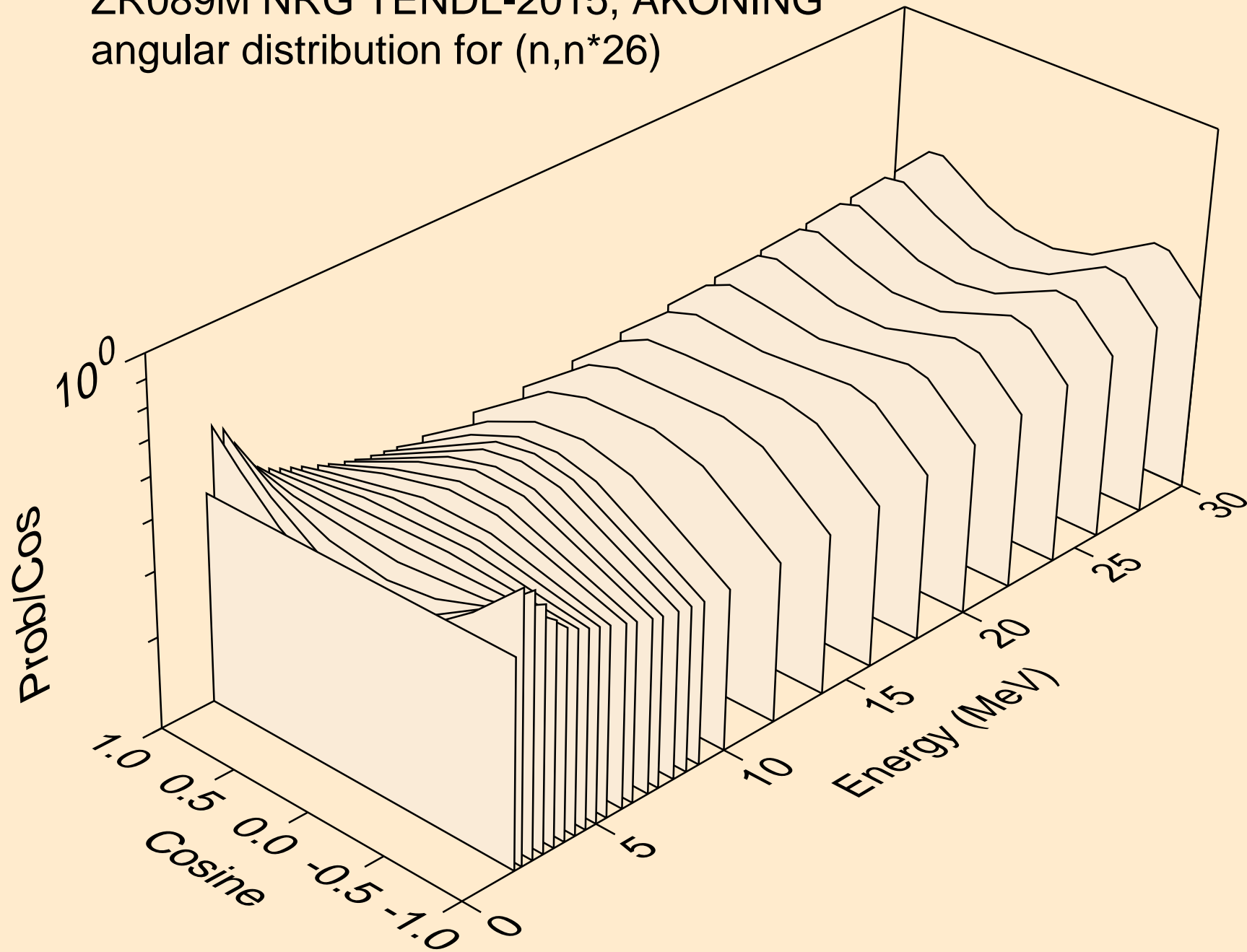
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angular distribution for (n,n\*24)



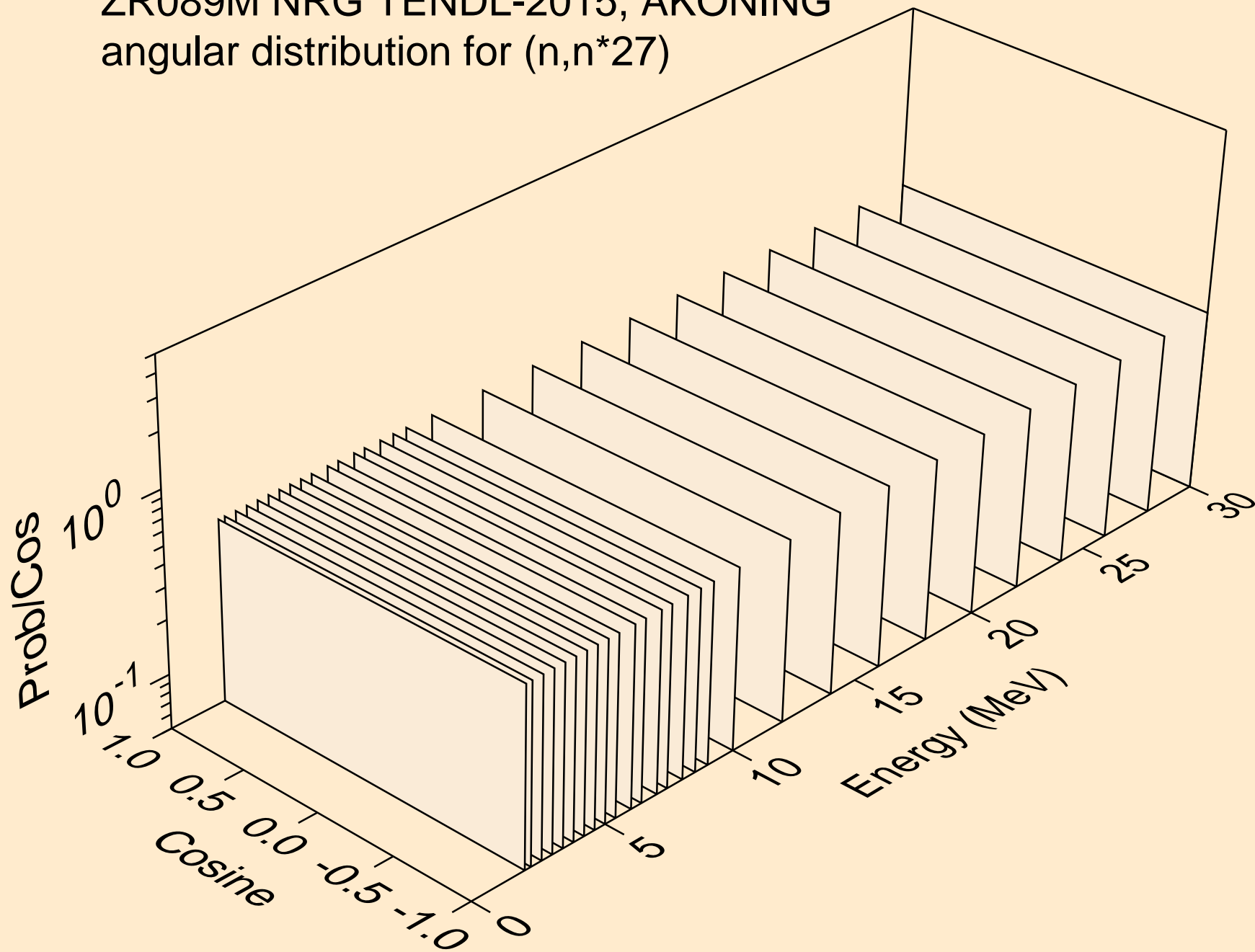
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angular distribution for (n,n\*25)



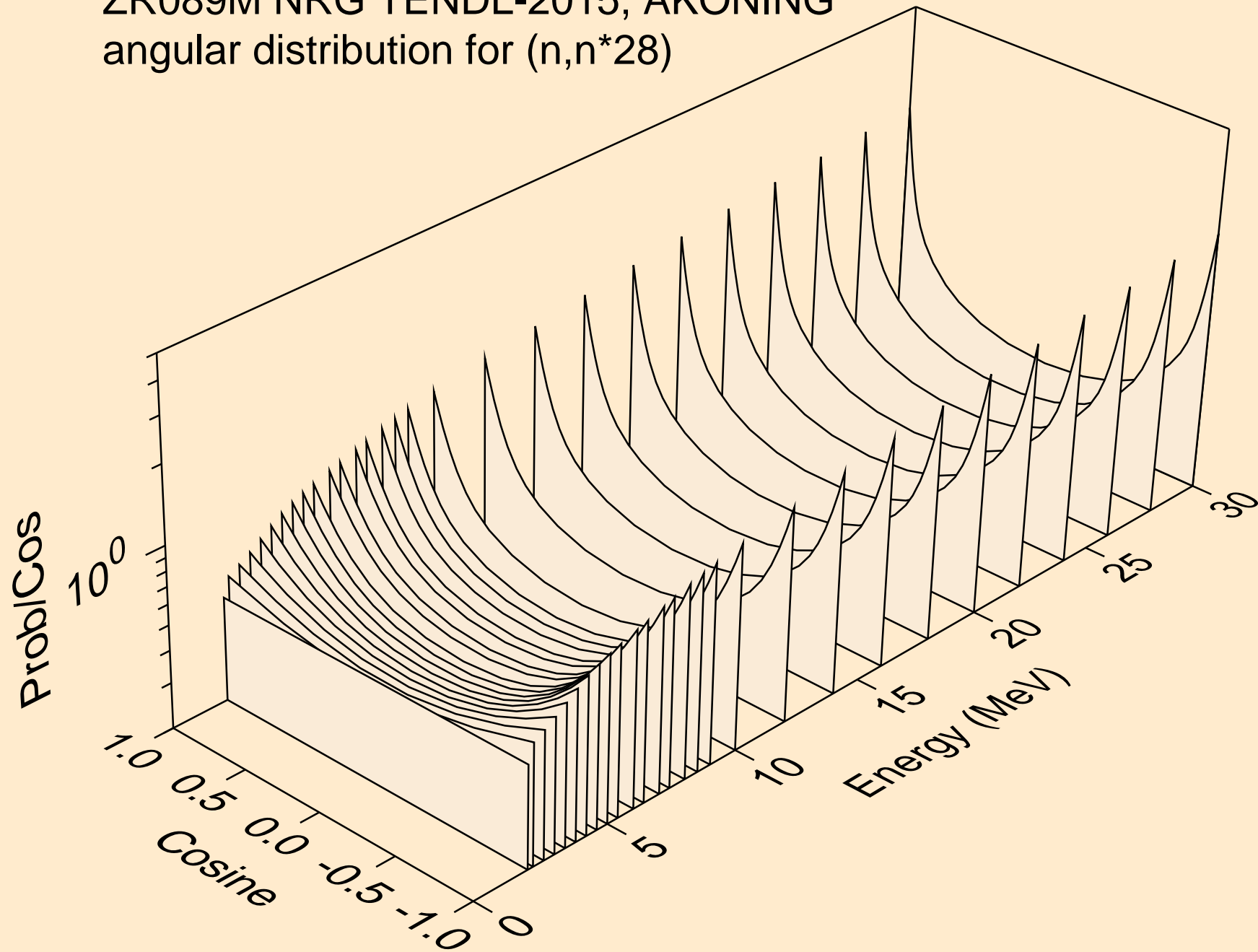
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angular distribution for (n,n\*26)



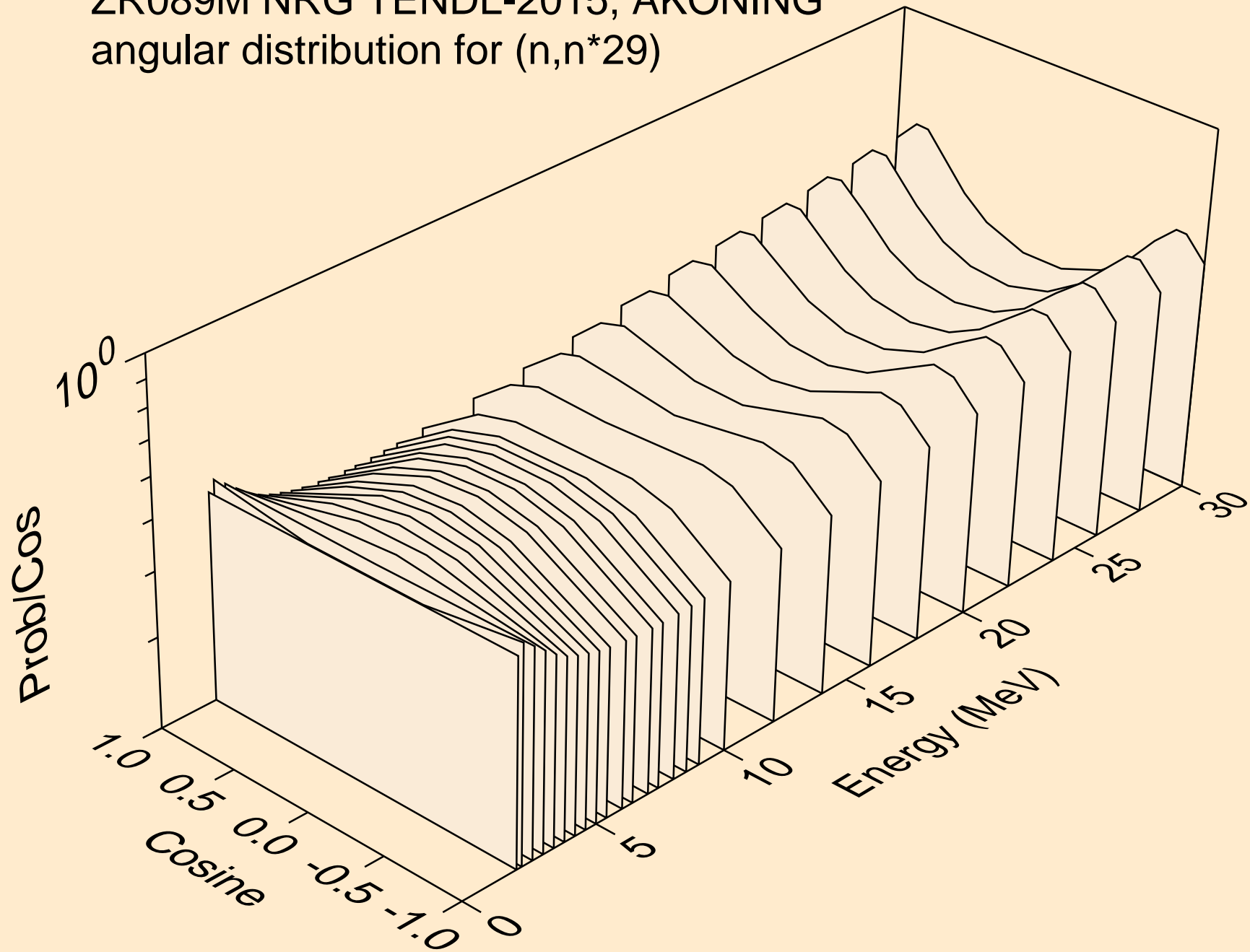
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angular distribution for (n,n\*27)



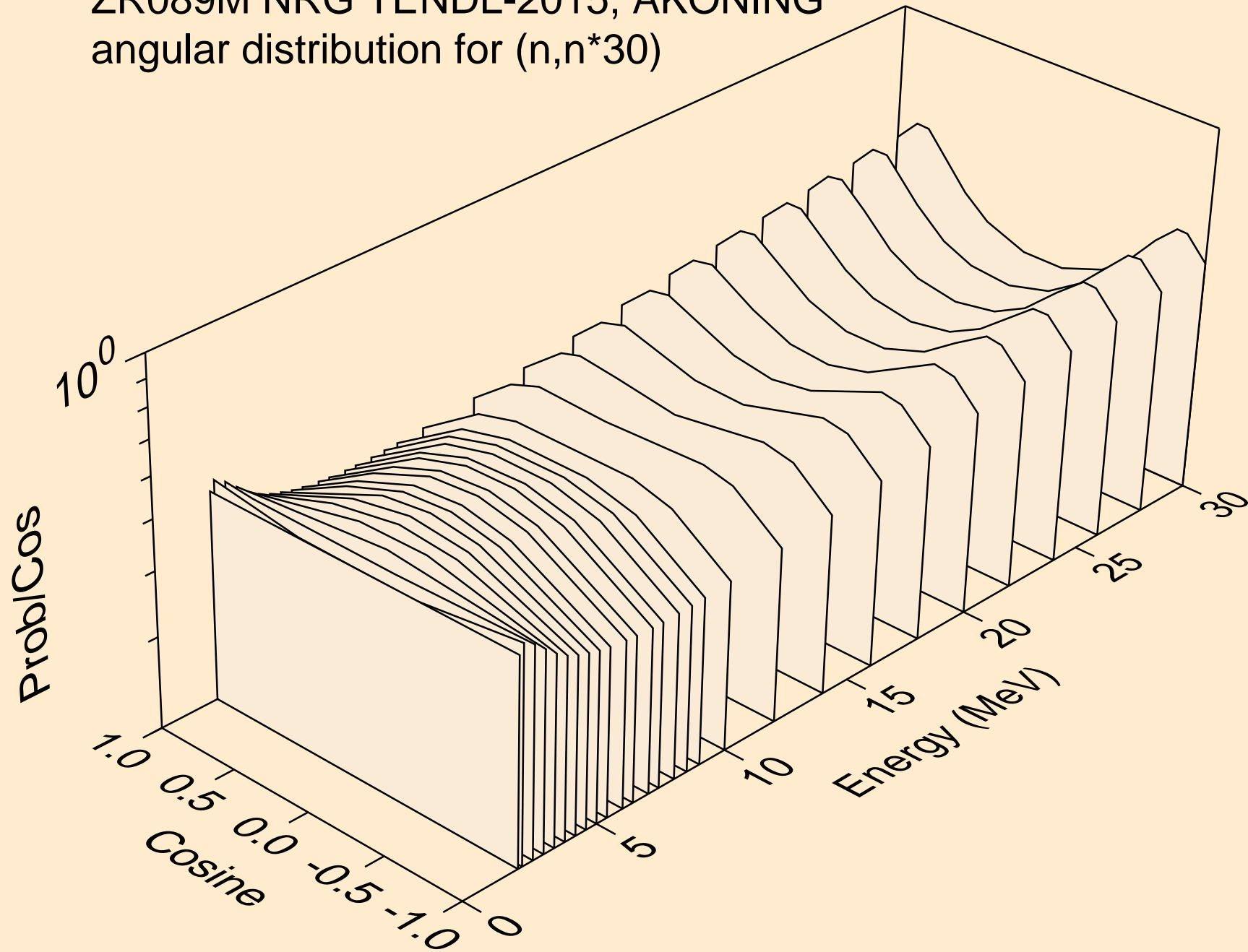
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angular distribution for (n,n\*28)



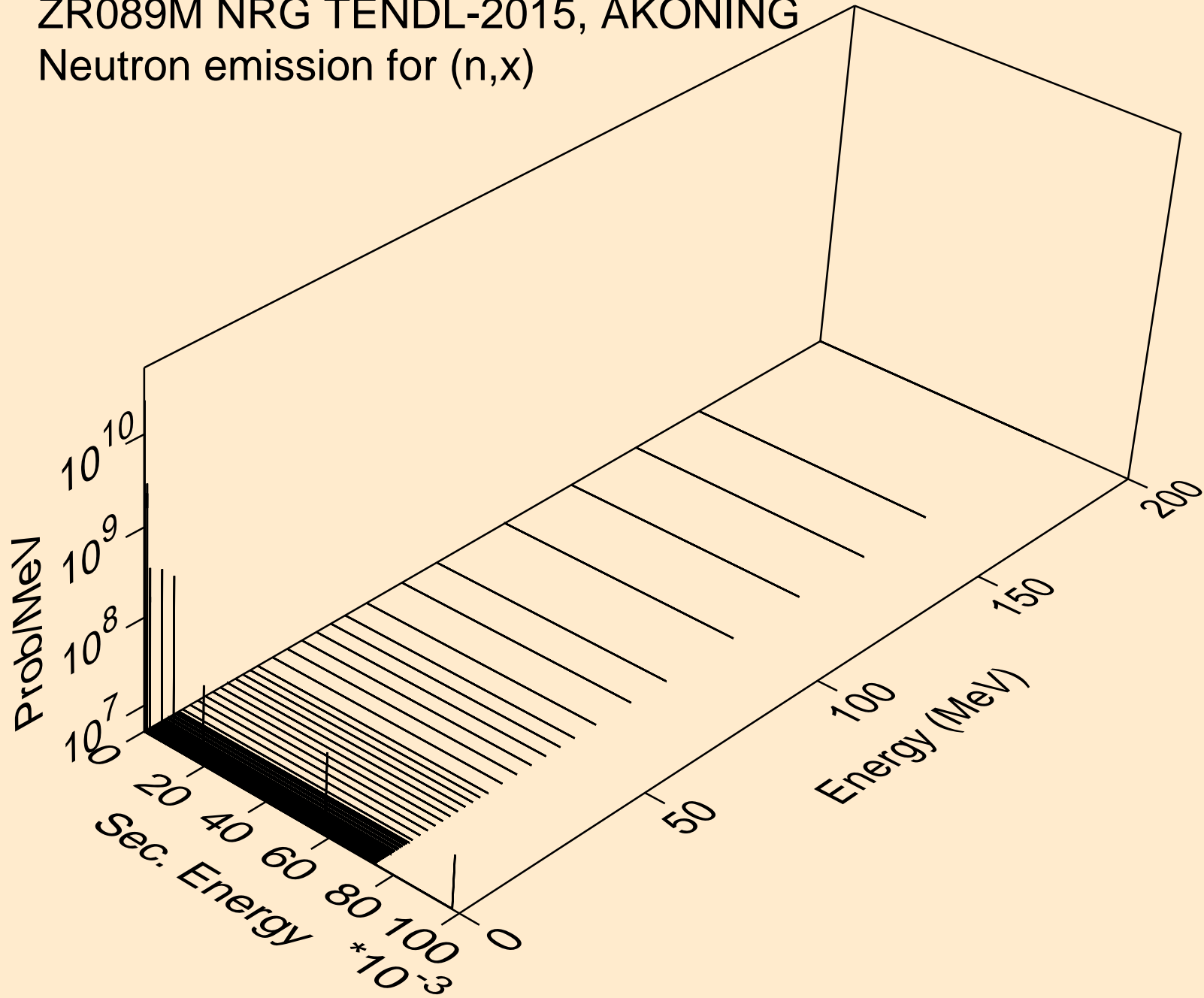
ZR089M NRG TENDL-2015, AKONING  
angular distribution for (n,n\*29)



ZR089M NRG TENDL-2015, AKONING  
angular distribution for (n,n\*30)

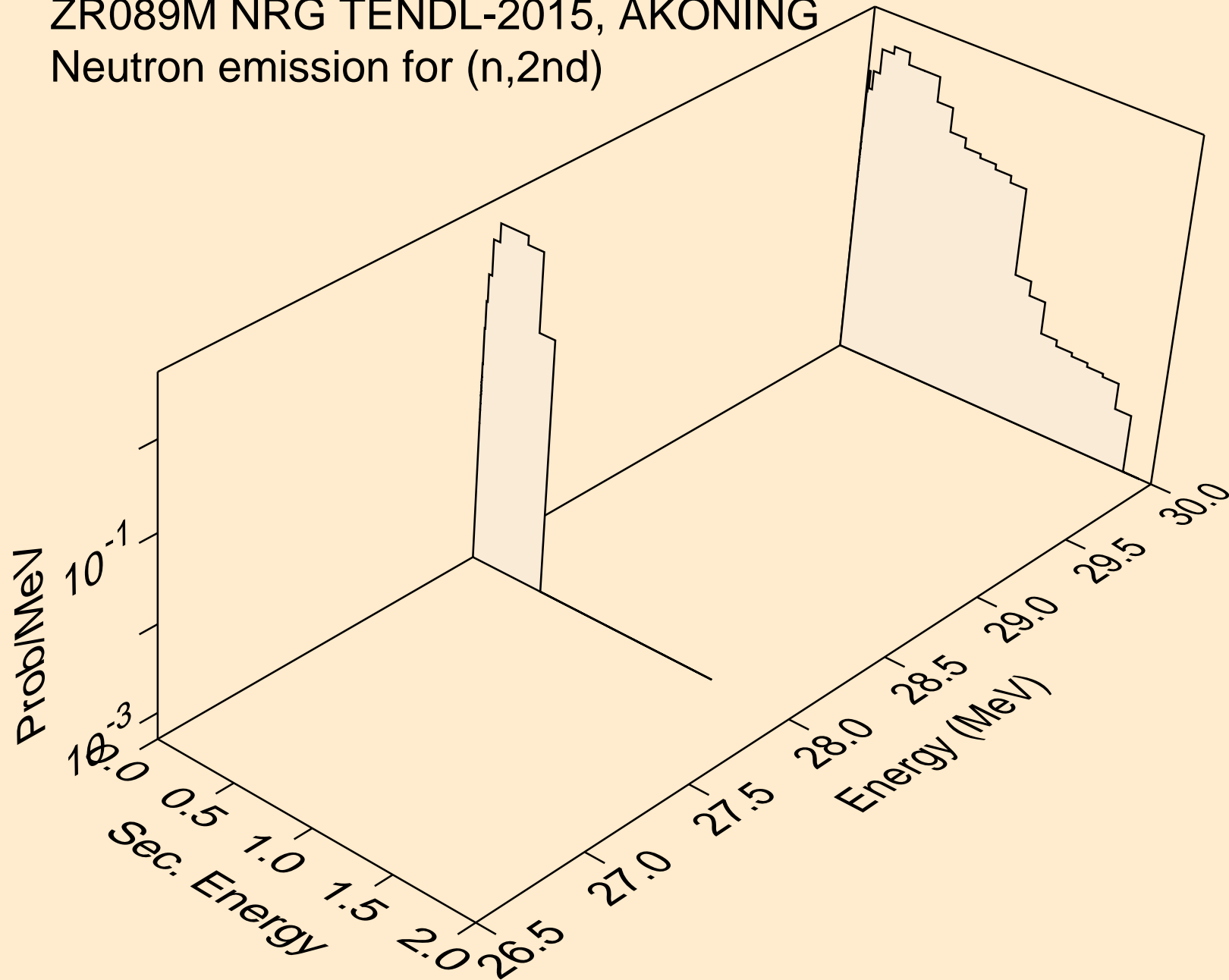


ZR089M NRG TENDL-2015, AKONING  
Neutron emission for (n,x)

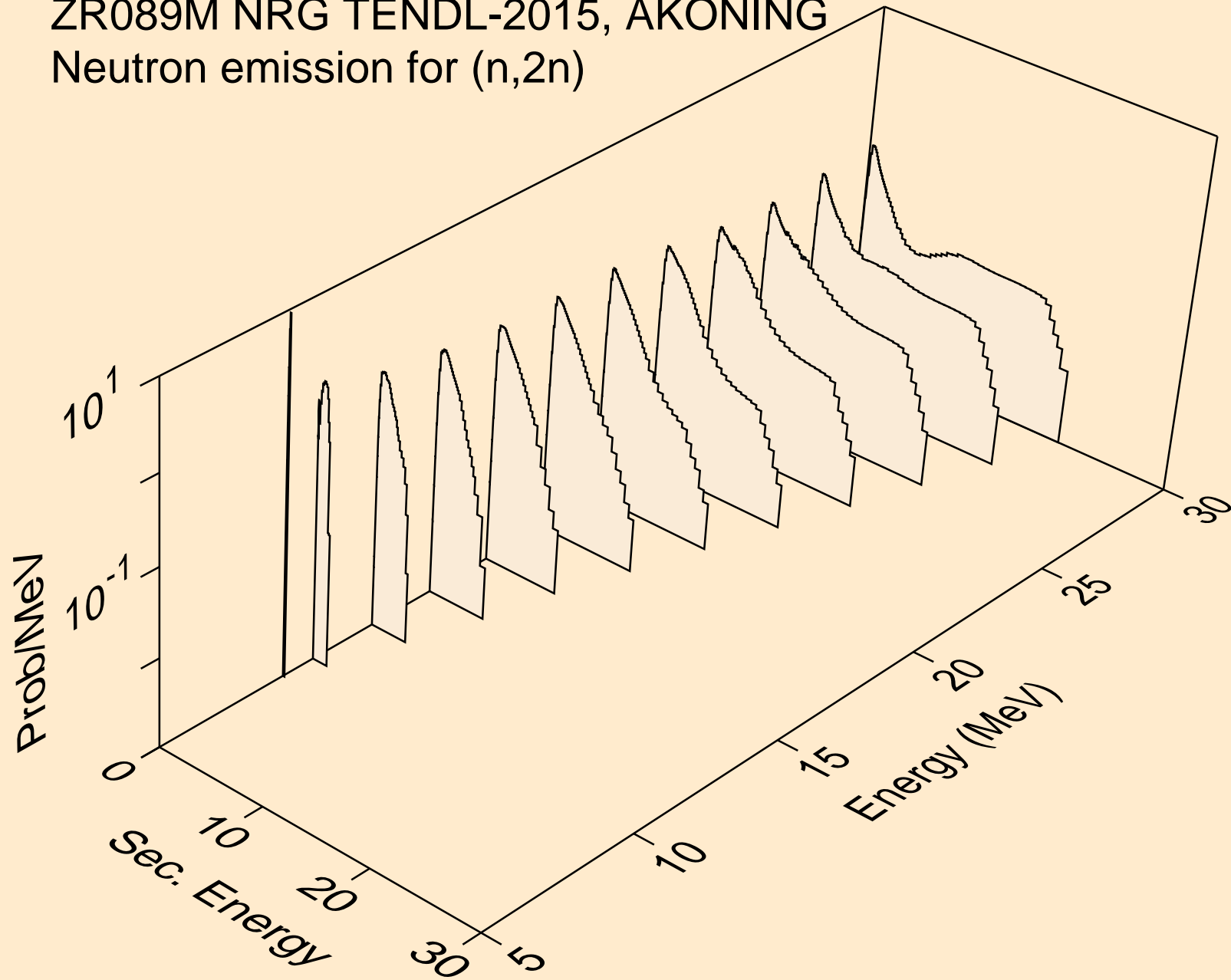




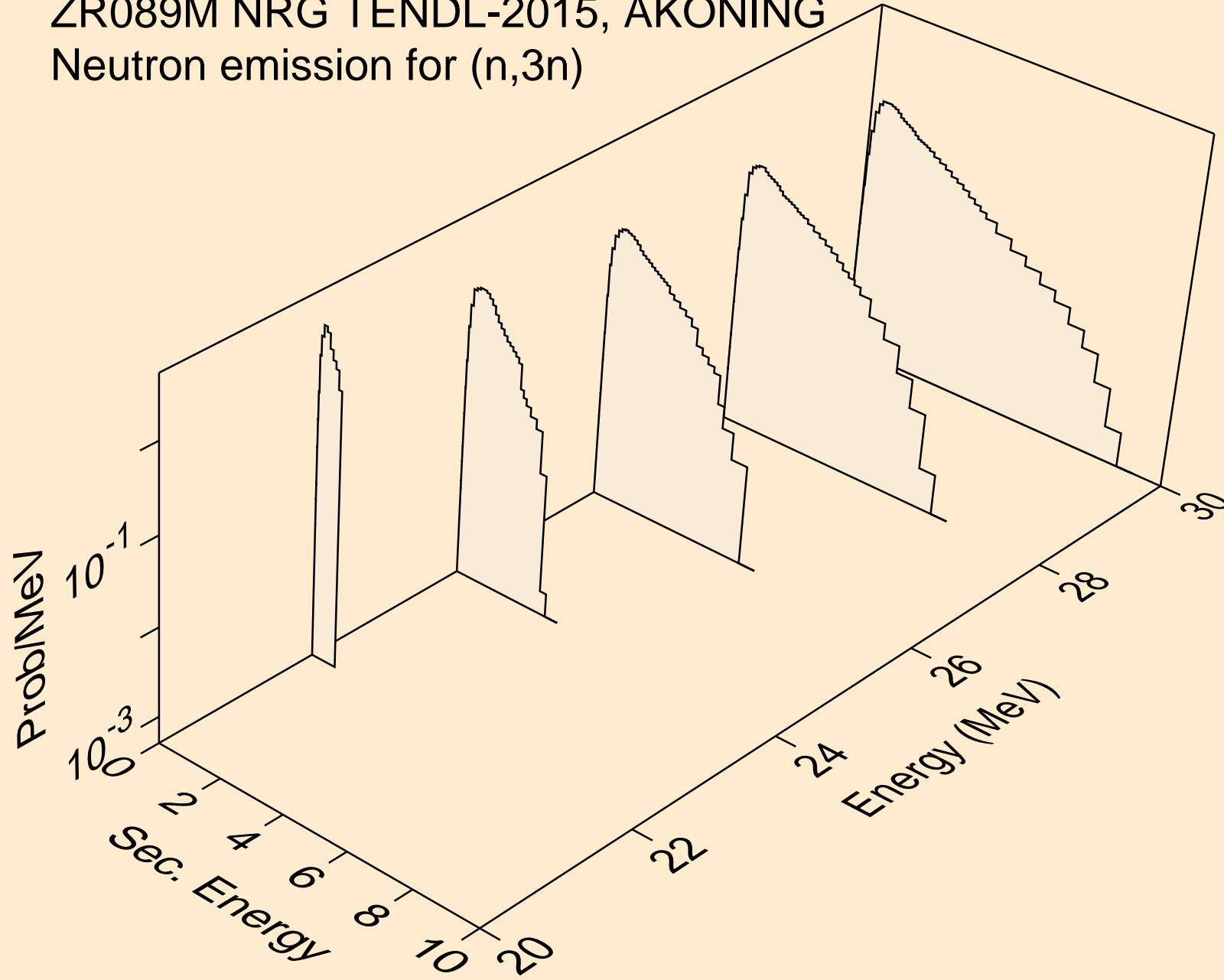
ZR089M NRG TENDL-2015, AKONING  
Neutron emission for (n,2nd)



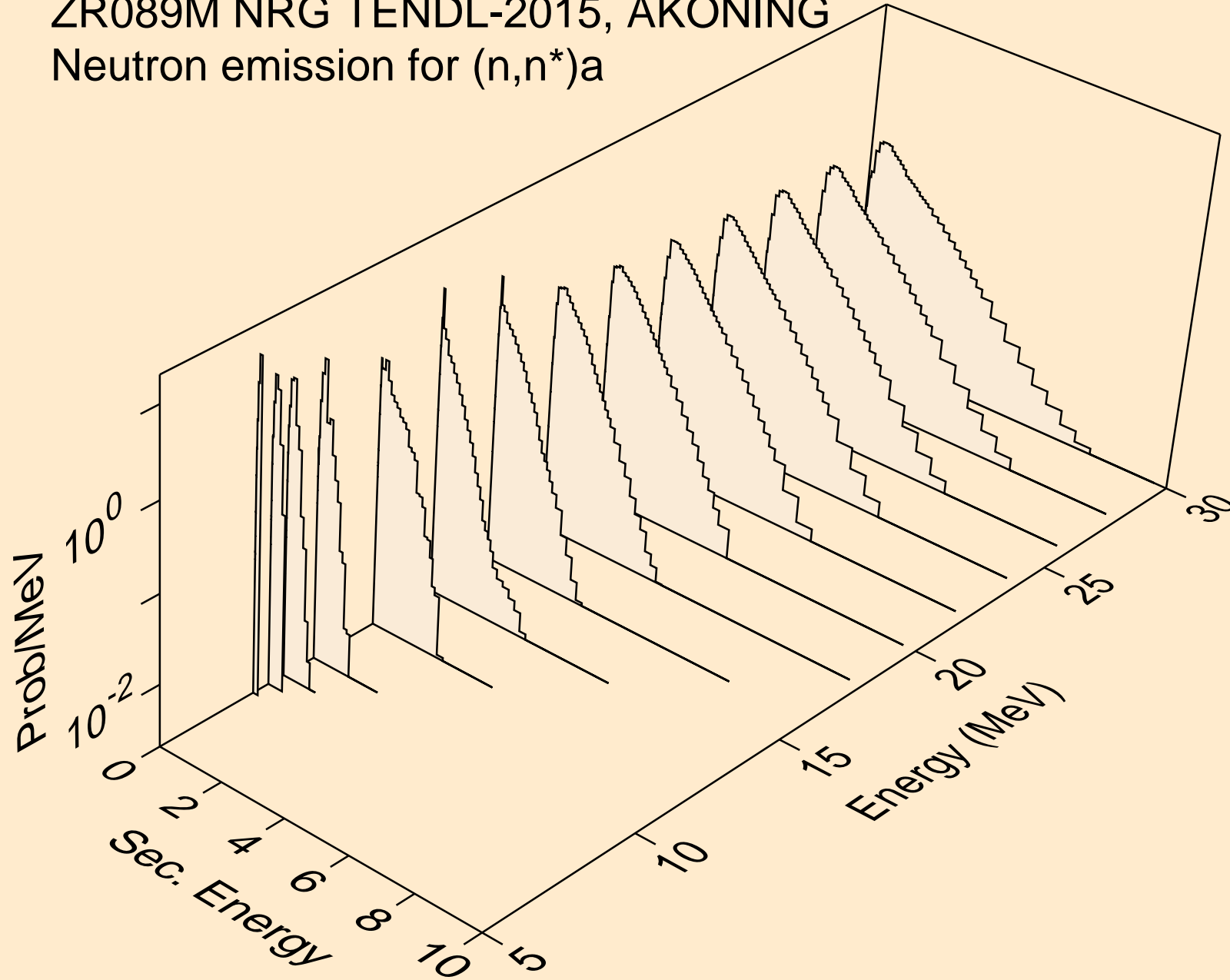
ZR089M NRG TENDL-2015, AKONING  
Neutron emission for (n,2n)



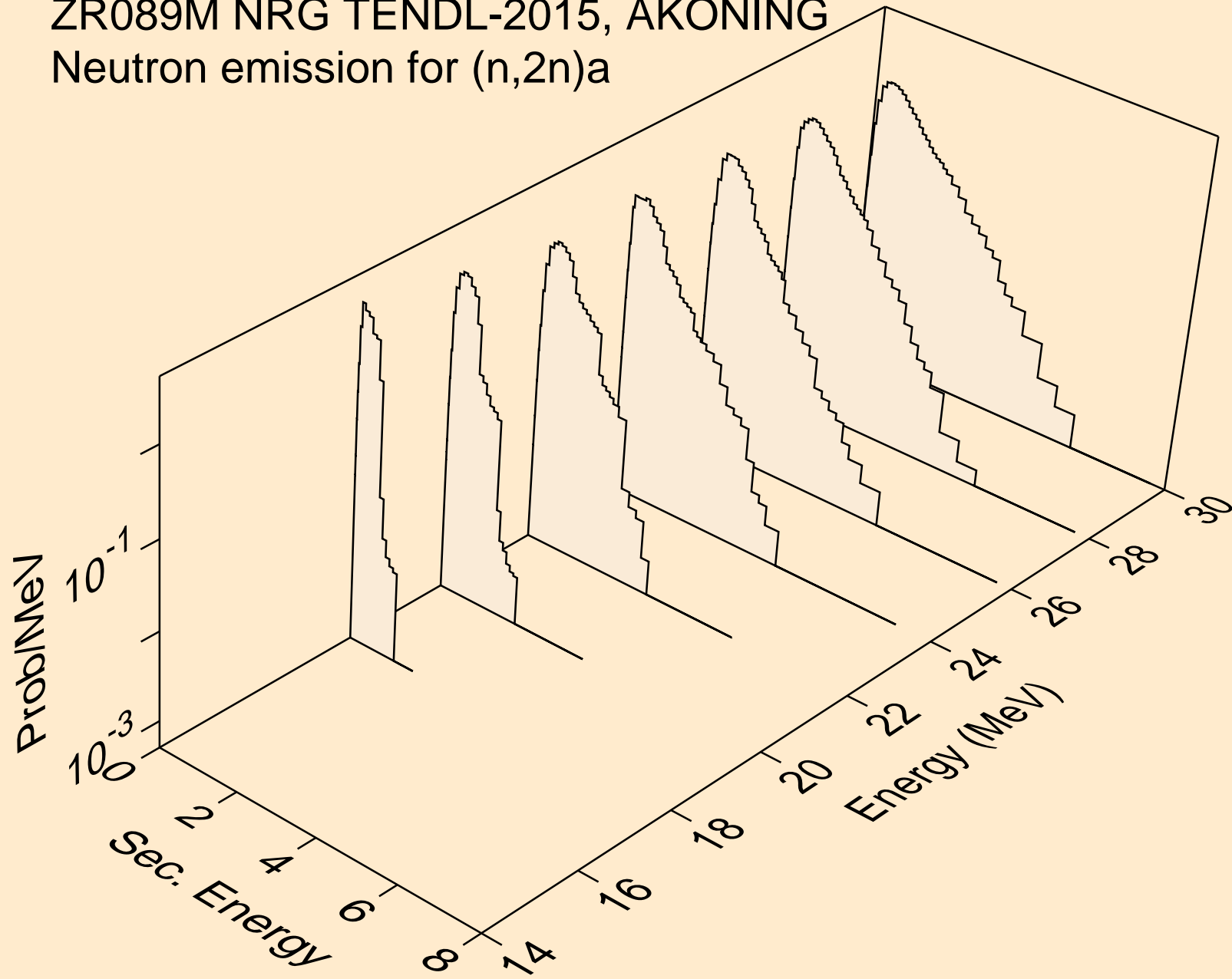
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Neutron emission for (n,3n)



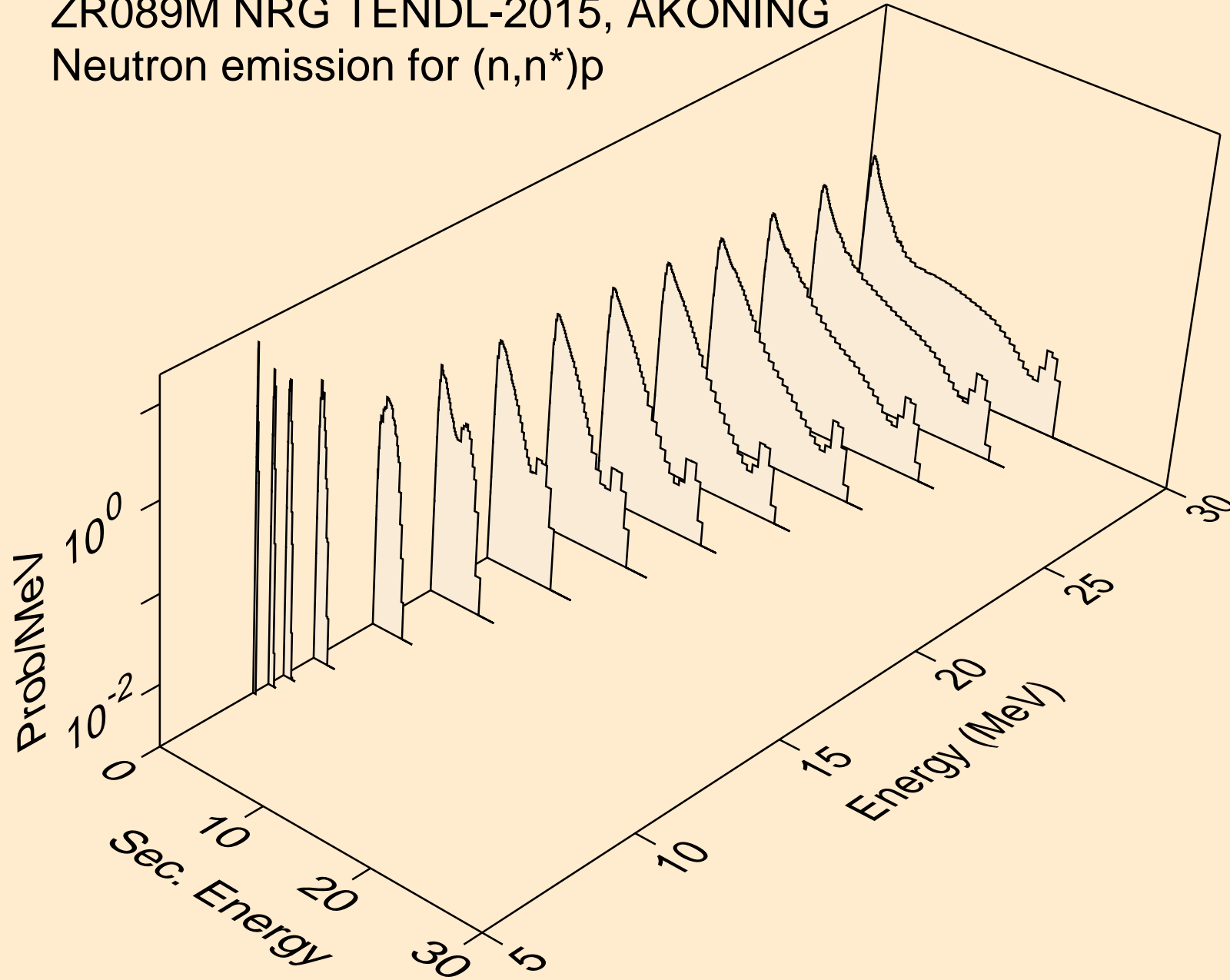
ZR089M NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)a



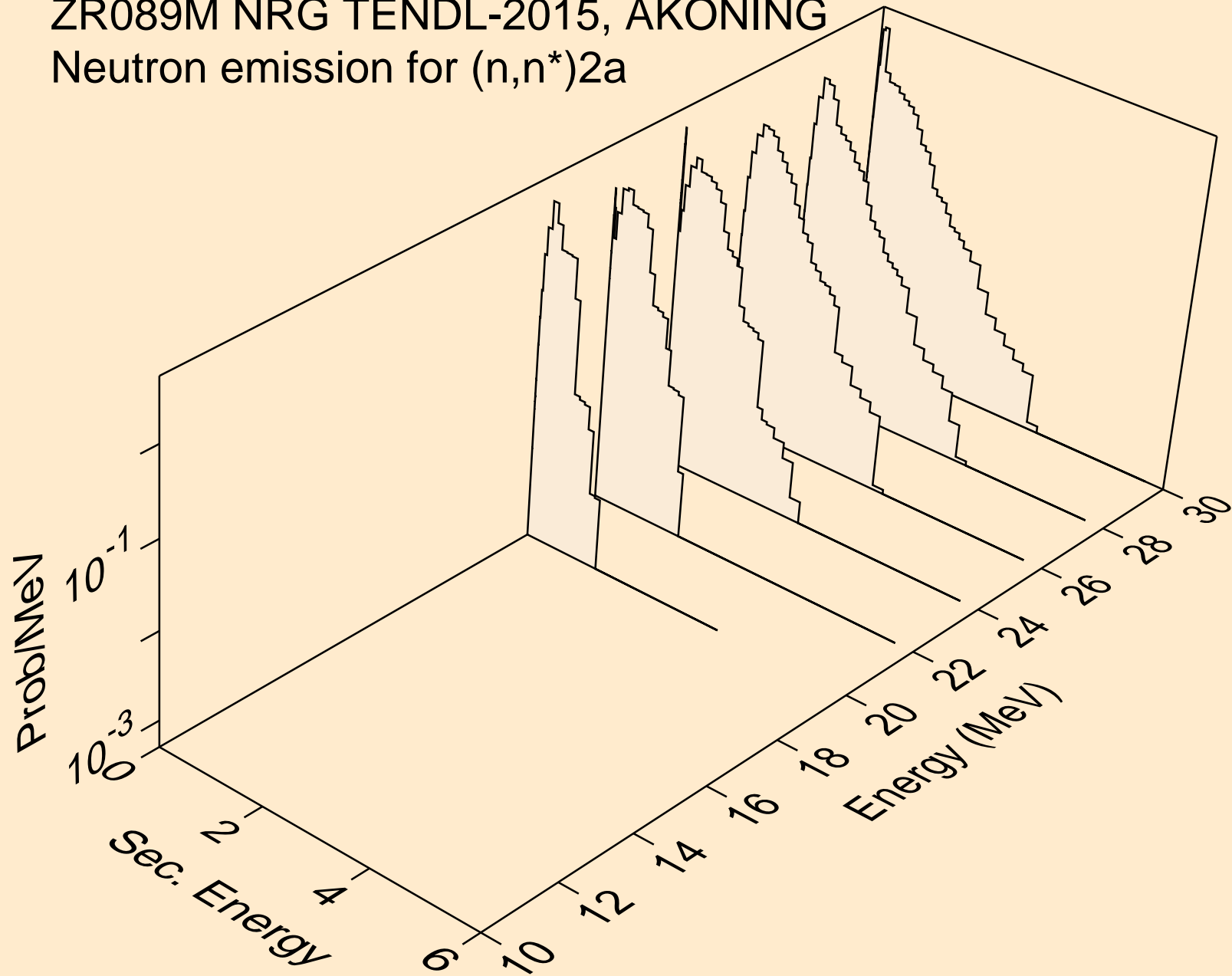
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Neutron emission for (n,2n)a



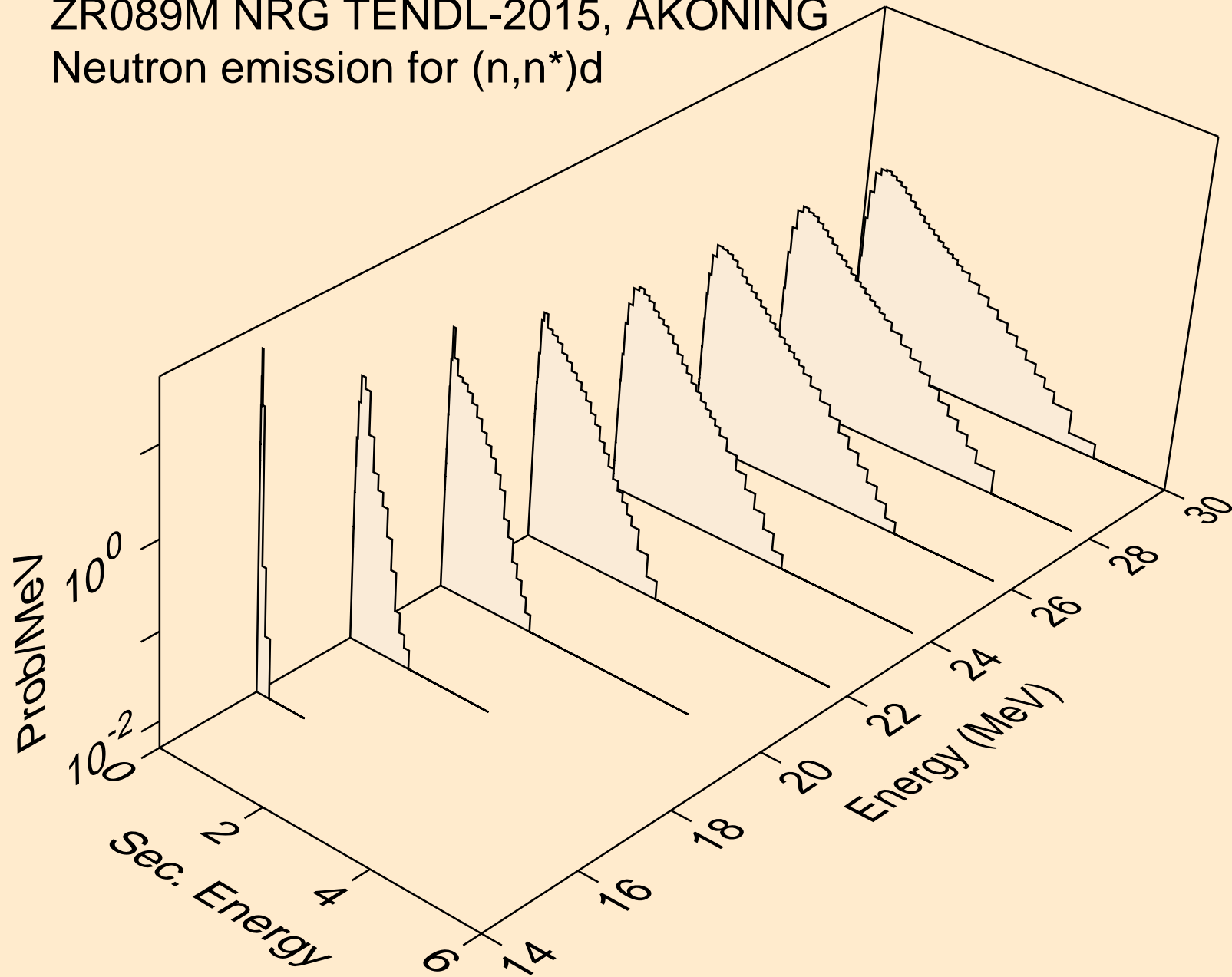
ZR089M NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)p



ZR089M NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)2a

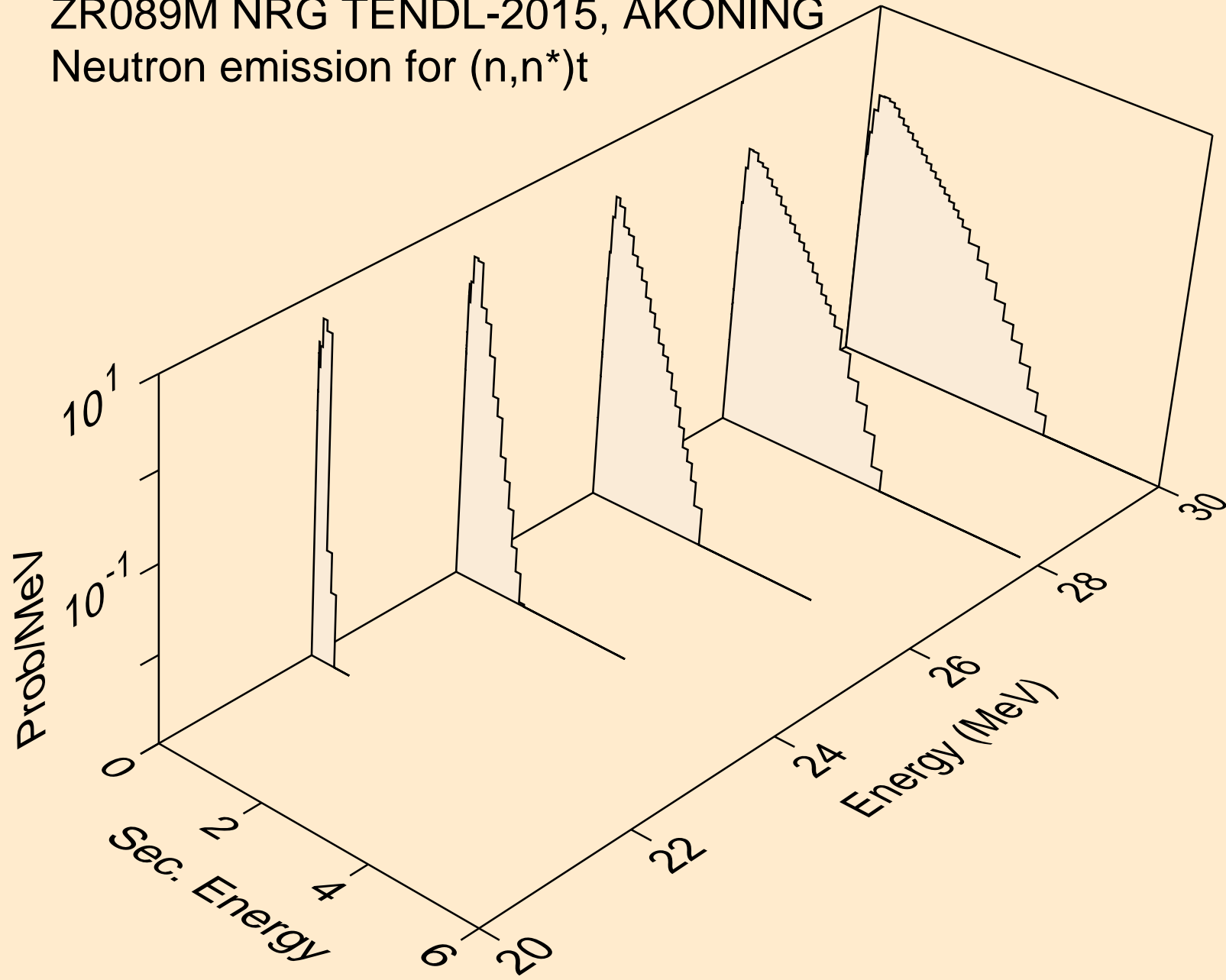


ZR089M NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)d

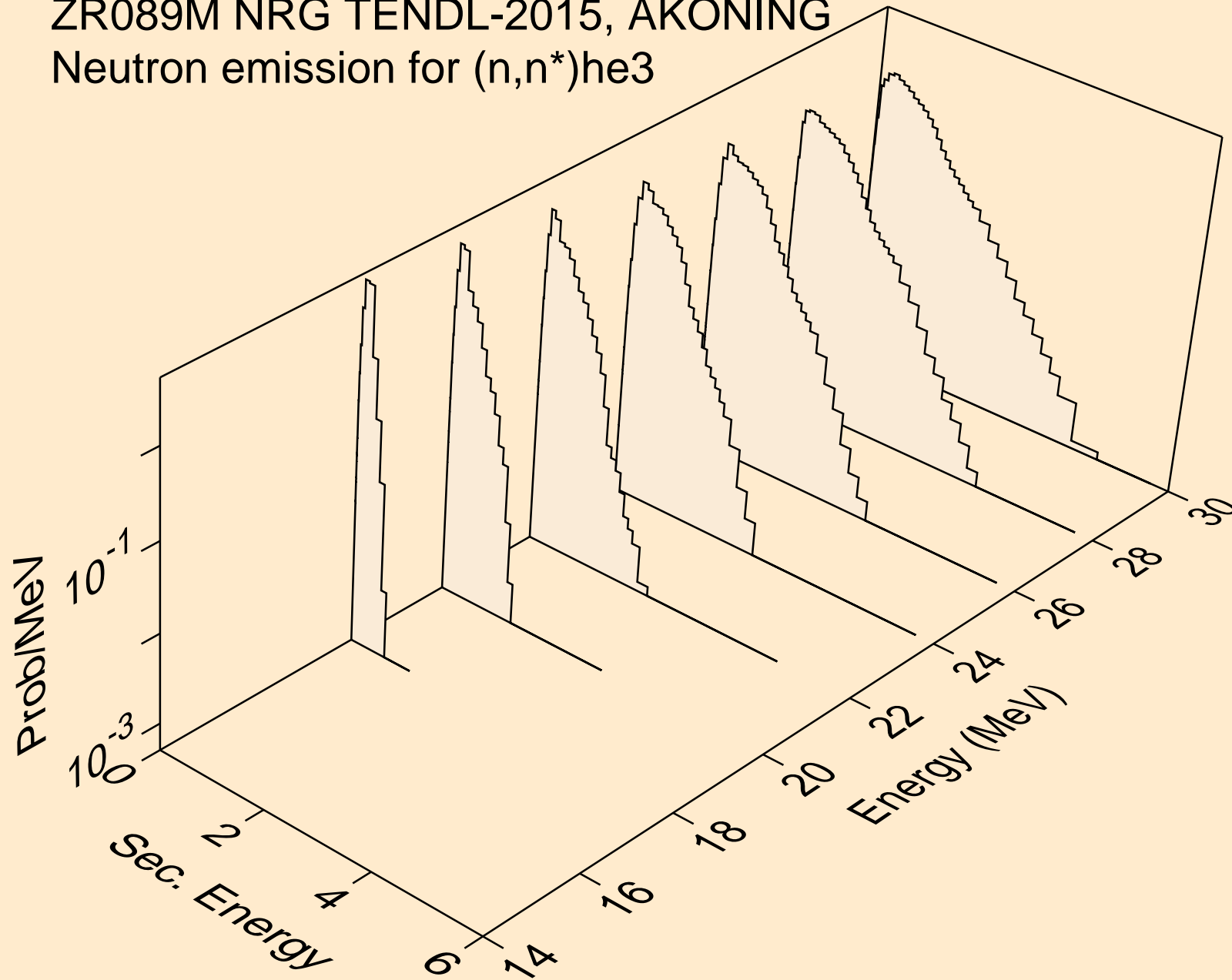




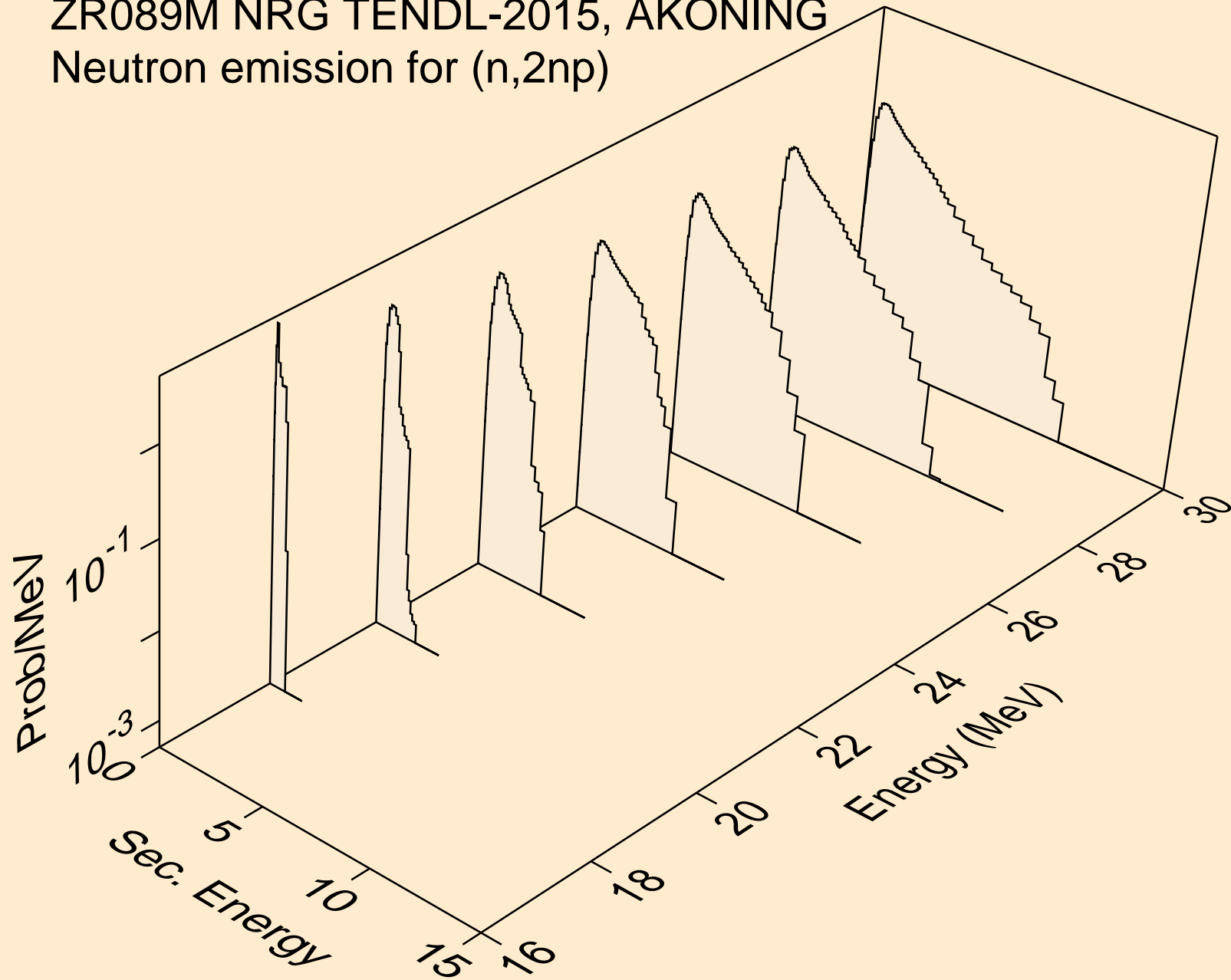
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Neutron emission for (n,n\*)t



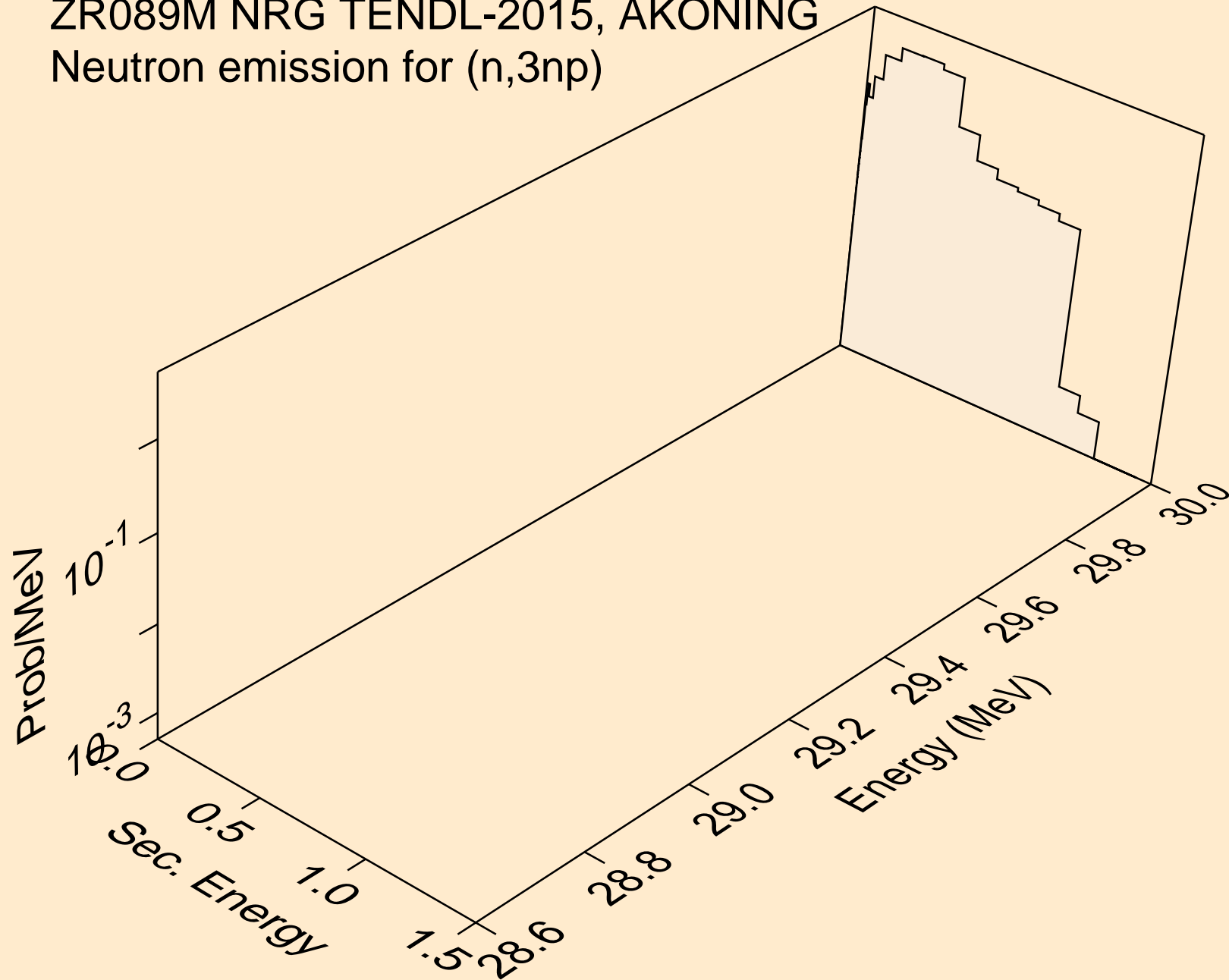
ZR089M NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)he3



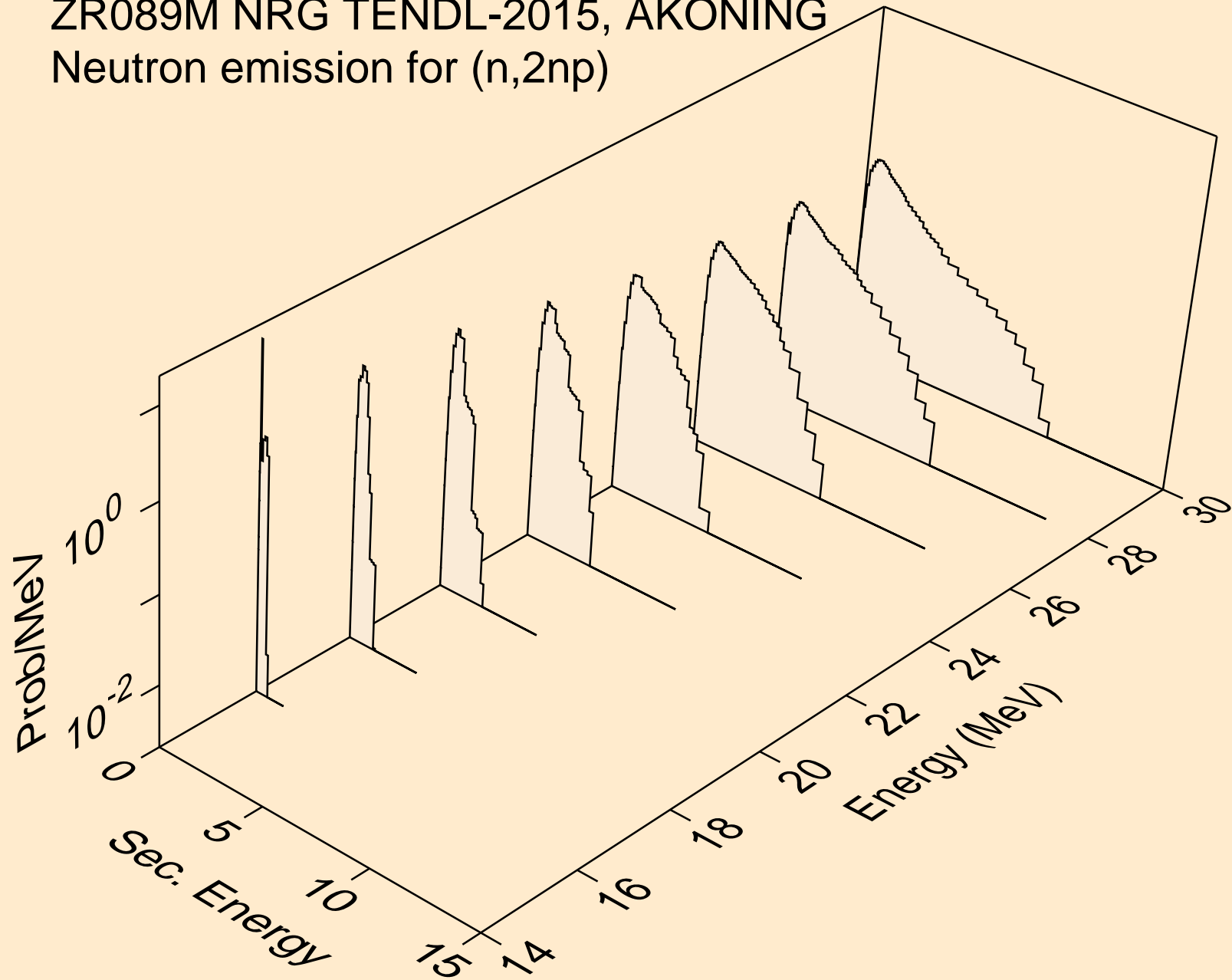
ZR089M NRG TENDL-2015, AKONING  
Neutron emission for (n,2np)



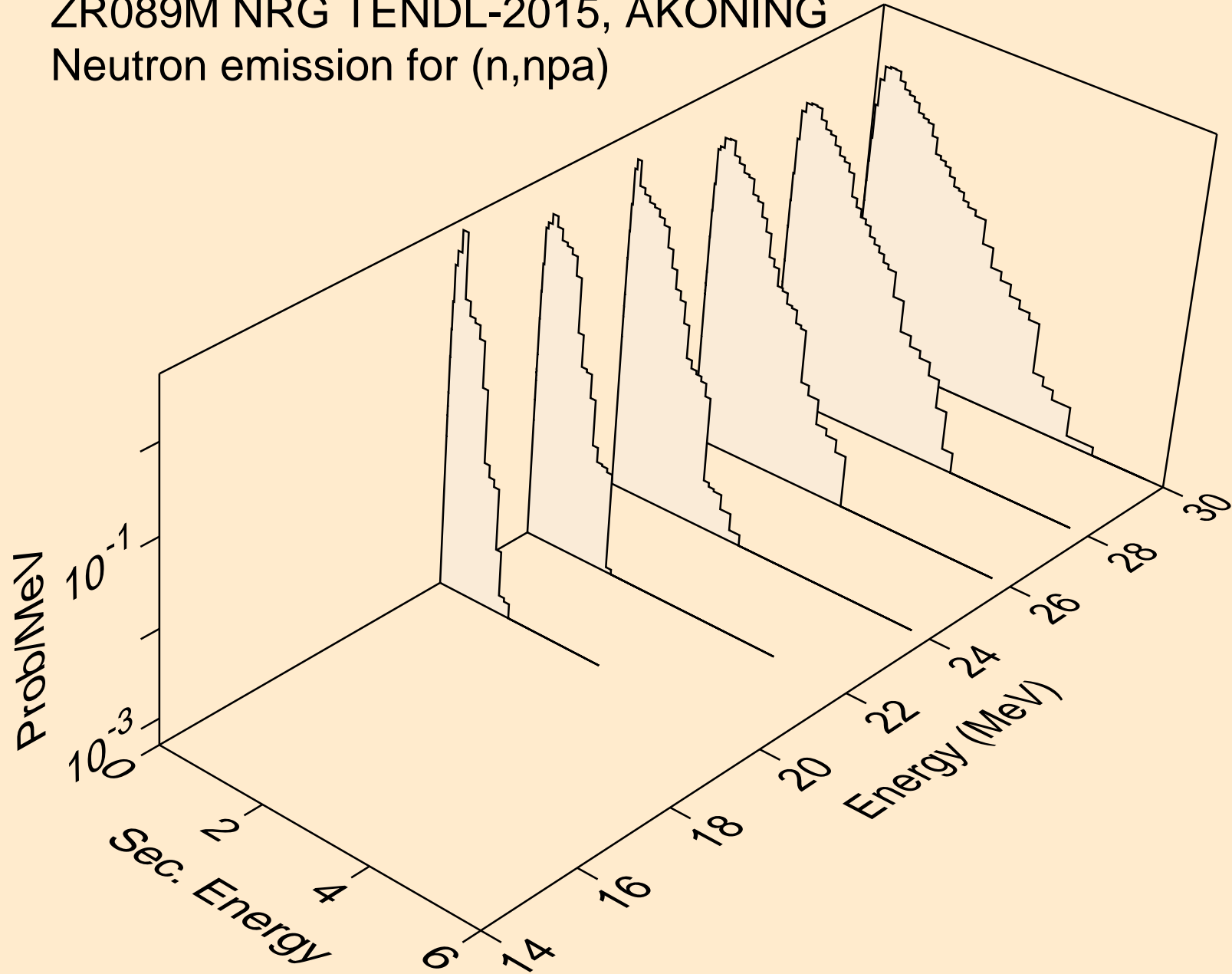
ZR089M NRG TENDL-2015, AKONING  
Neutron emission for (n,3np)



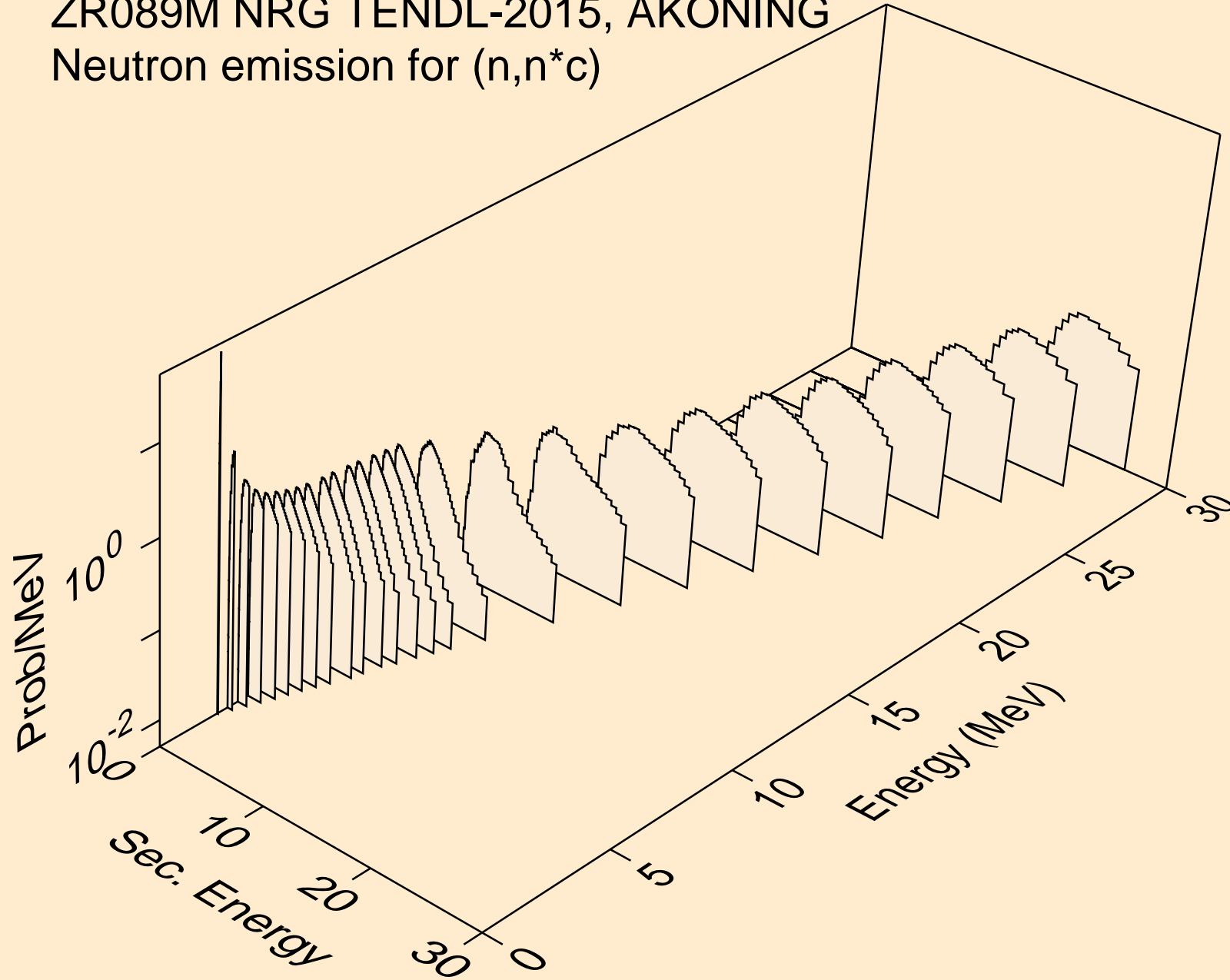
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Neutron emission for (n,2np)



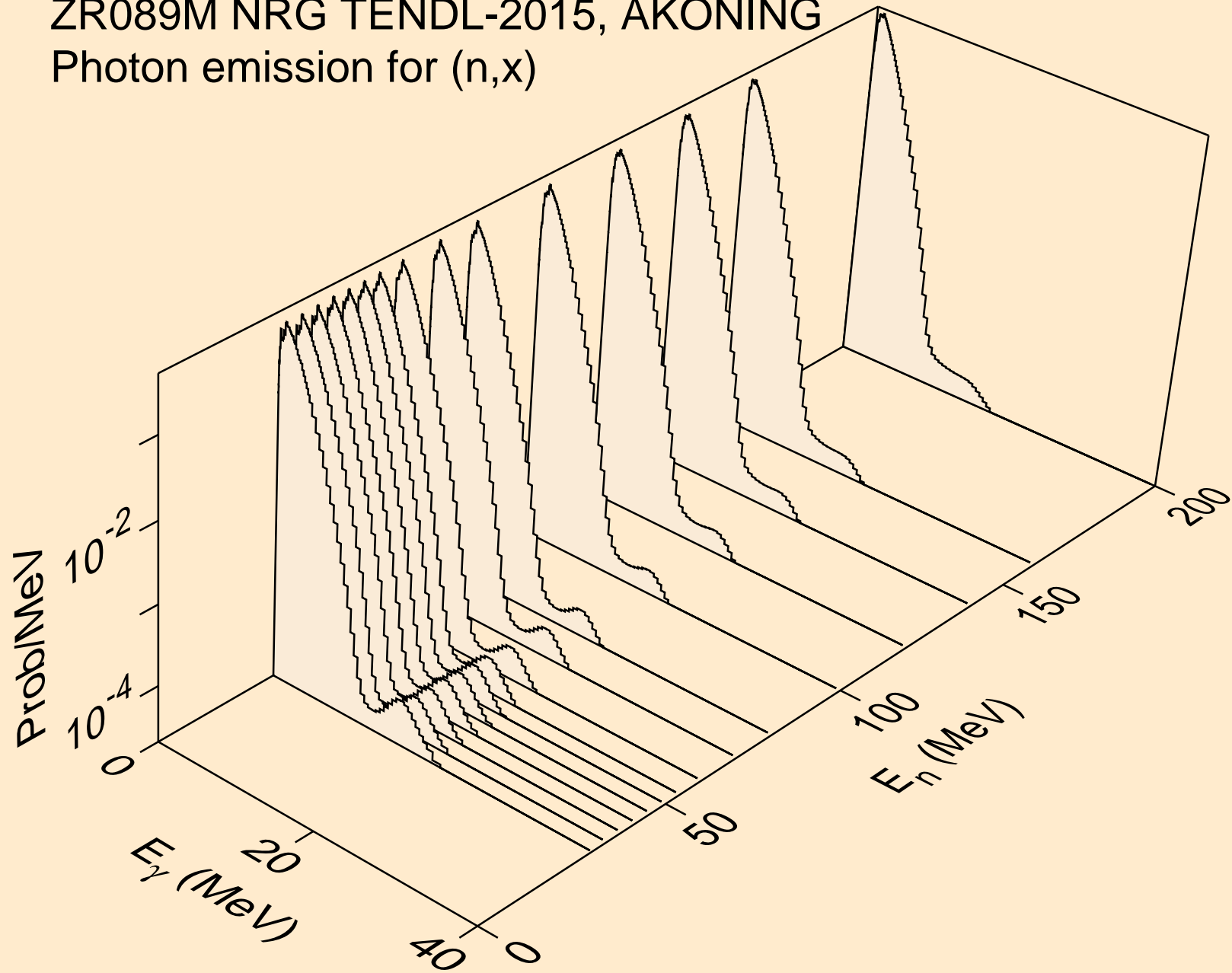
ZR089M NRG TENDL-2015, AKONING  
Neutron emission for (n,npa)



ZR089M NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*c)

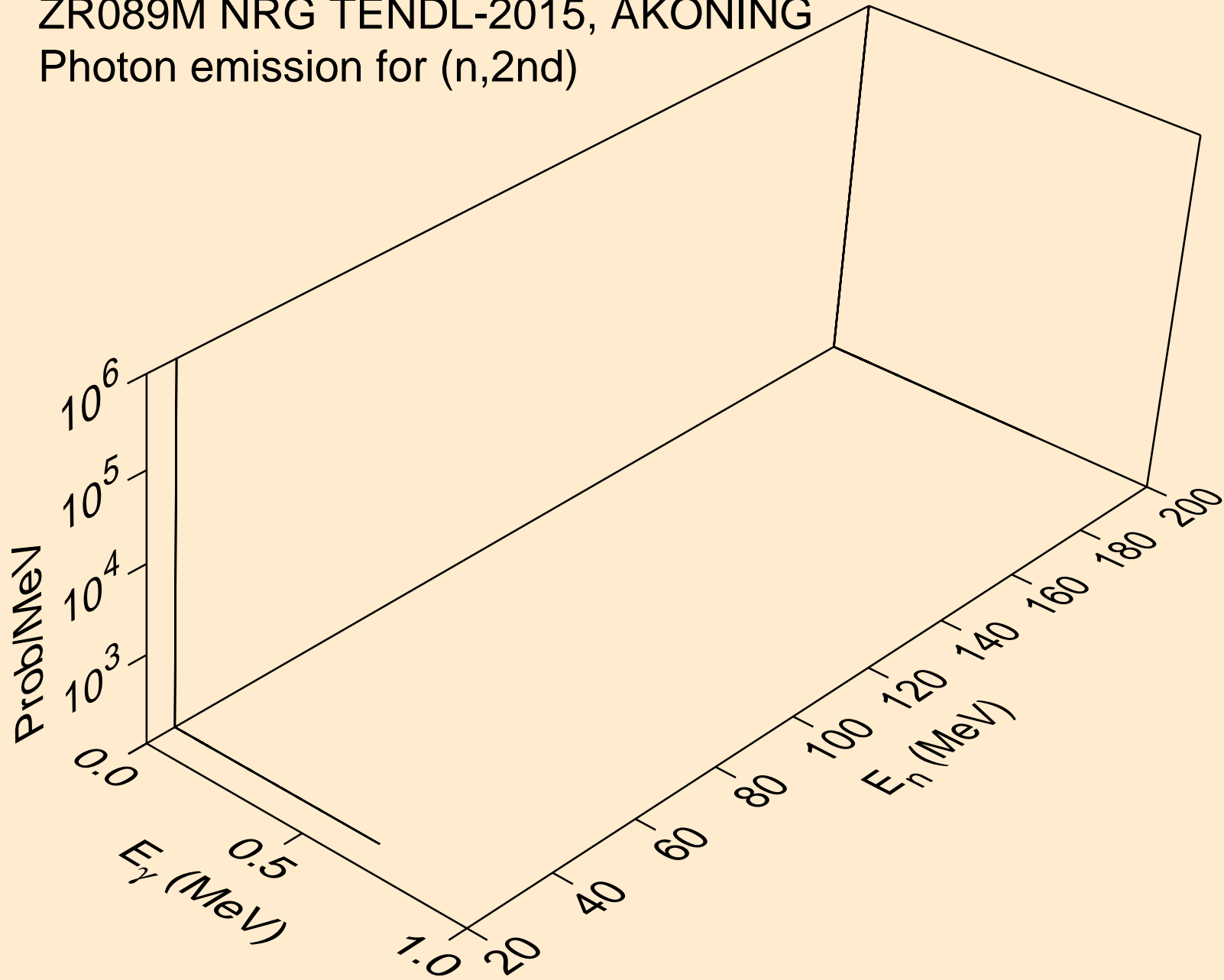


ZR089M NRG TENDL-2015, AKONING  
Photon emission for (n,x)

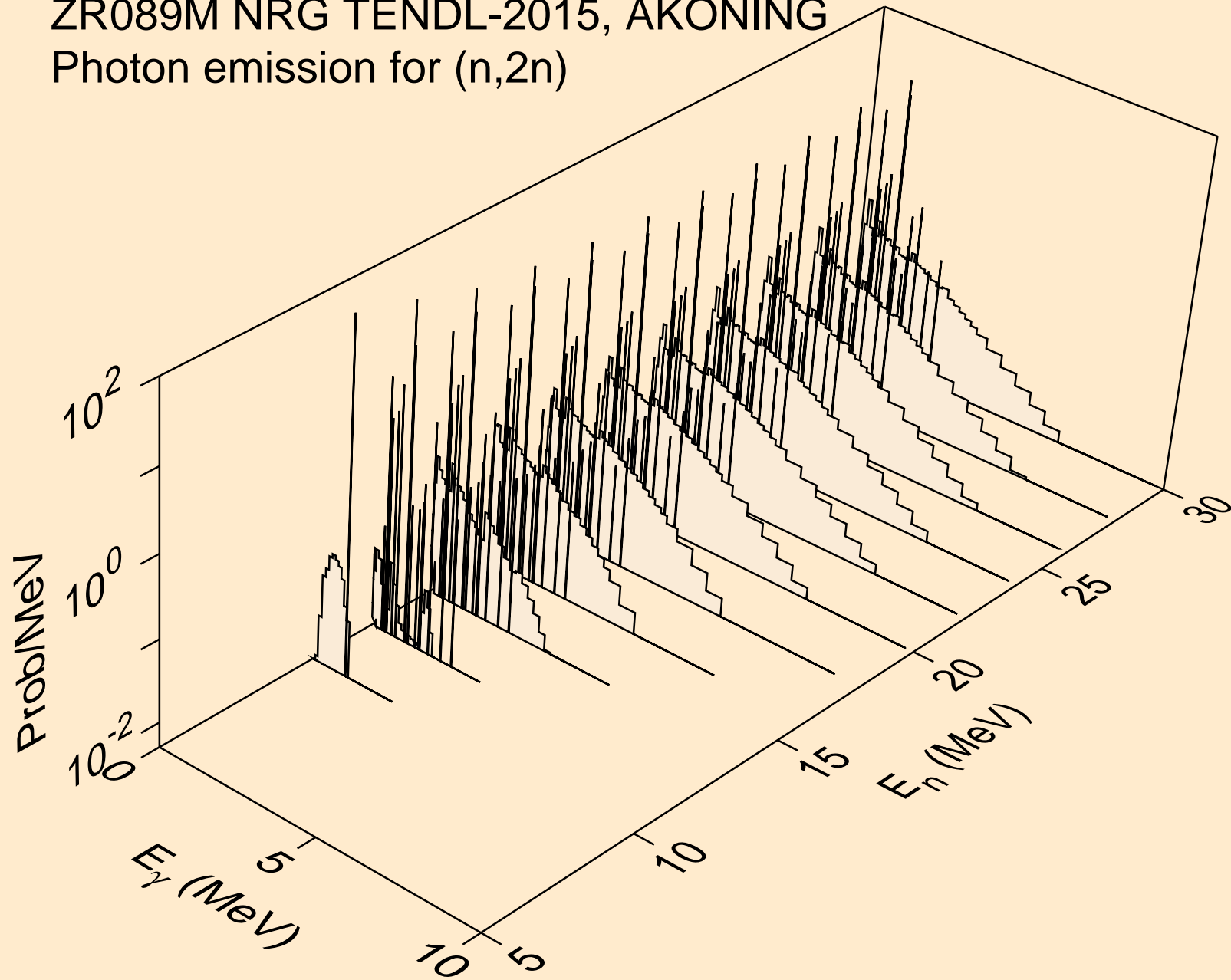




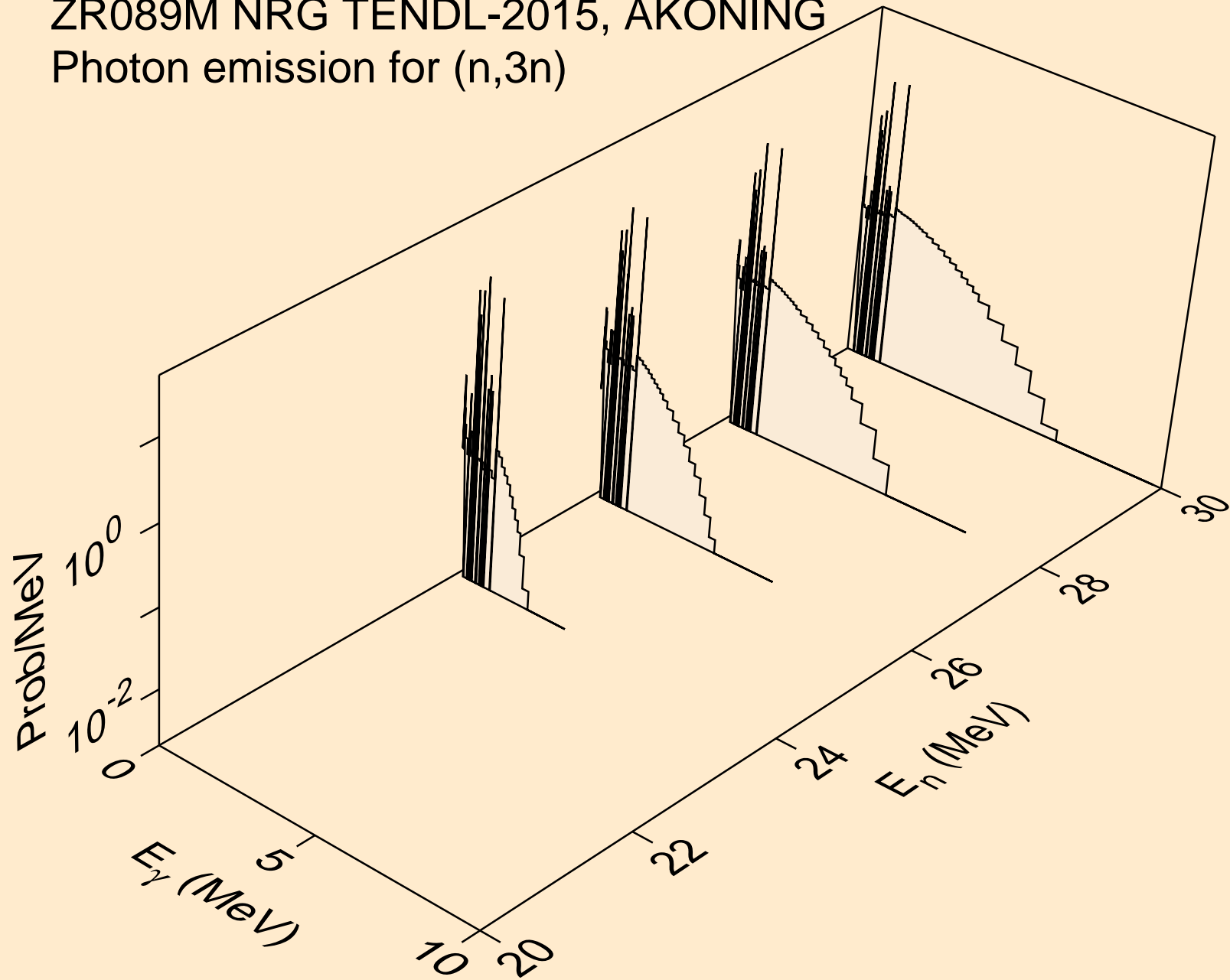
ZR089M NRG TENDL-2015, AKONING  
Photon emission for (n,2nd)



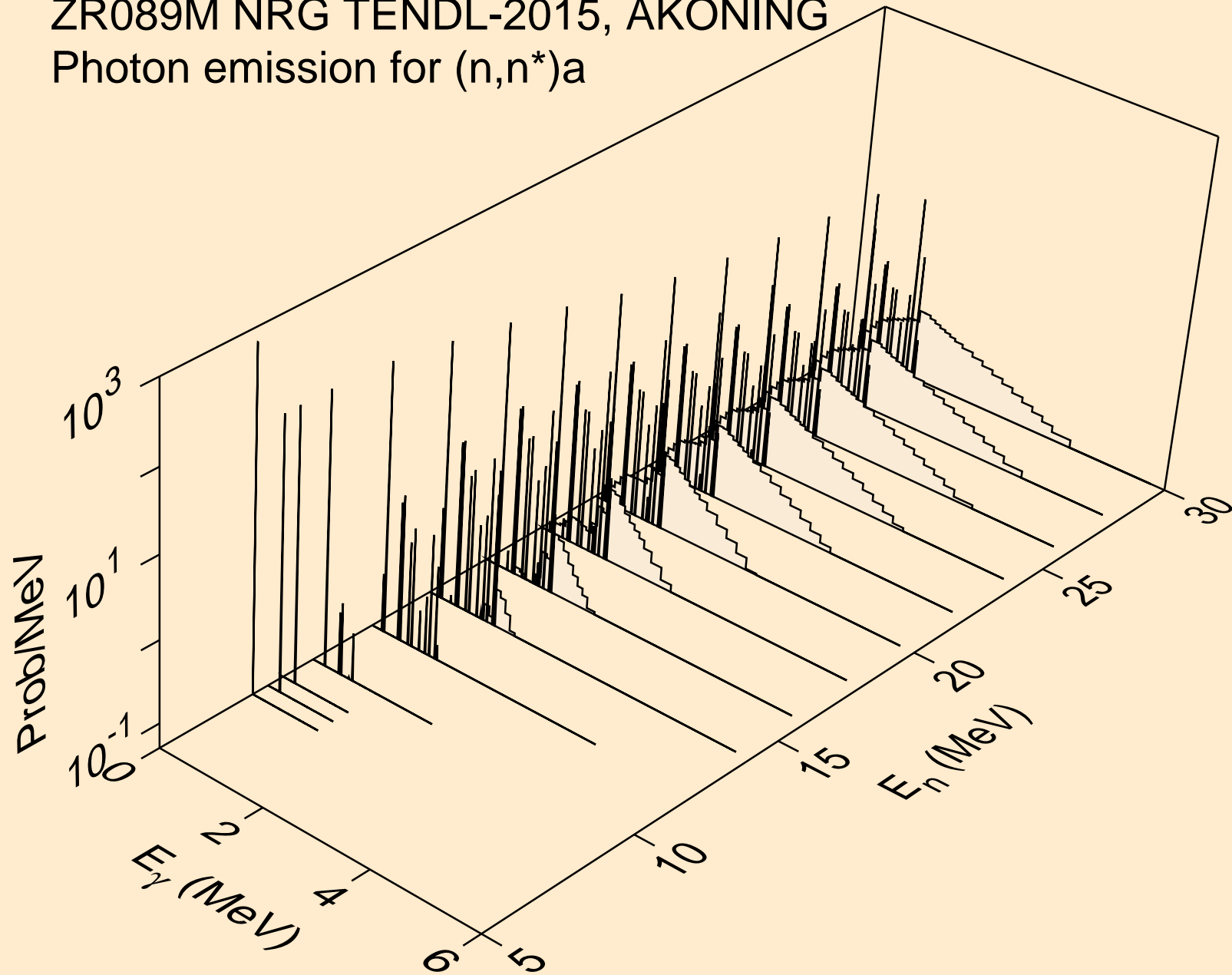
ZR089M NRG TENDL-2015, AKONING  
Photon emission for (n,2n)



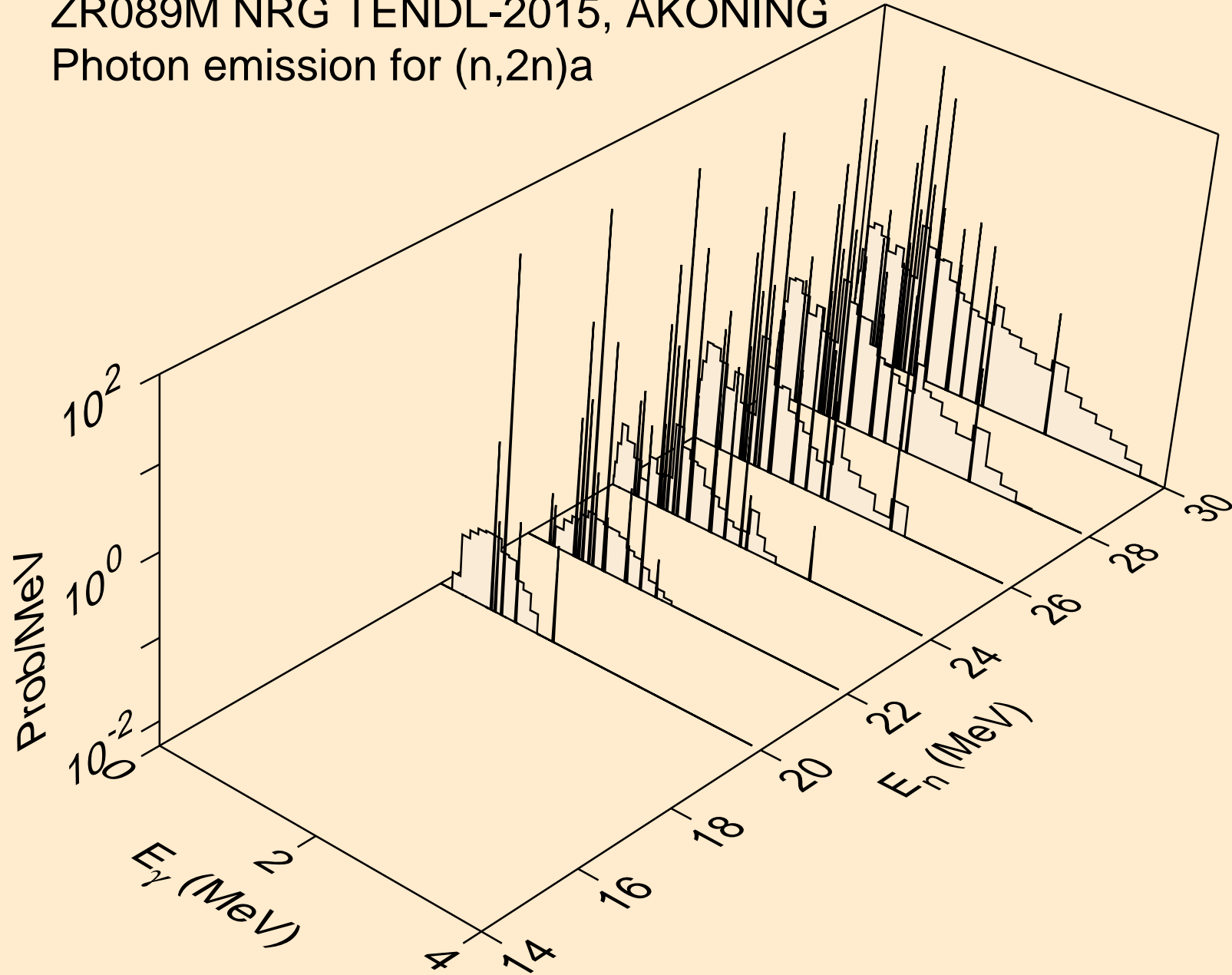
ZR089M NRG TENDL-2015, AKONING  
Photon emission for (n,3n)



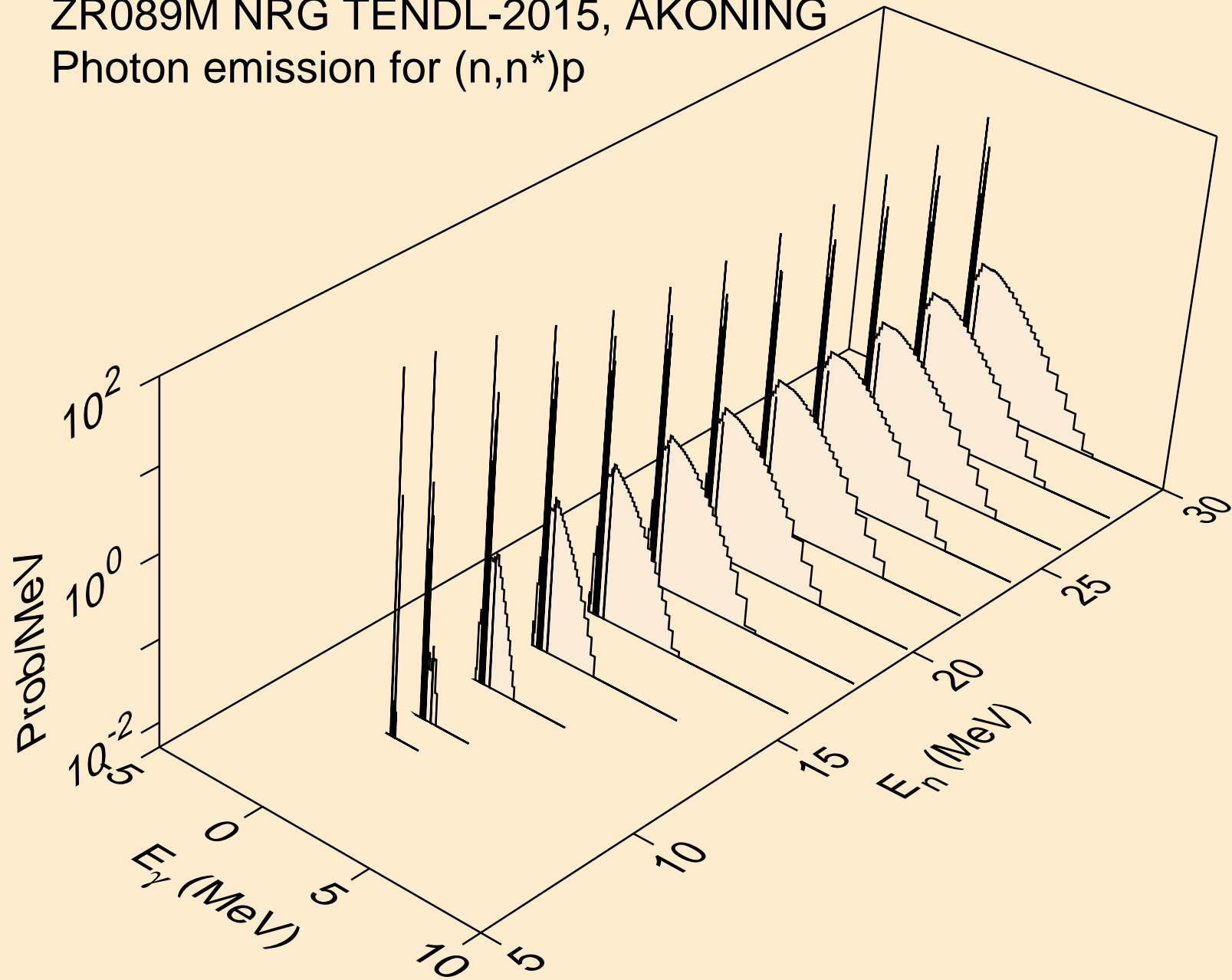
ZR089M NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)a



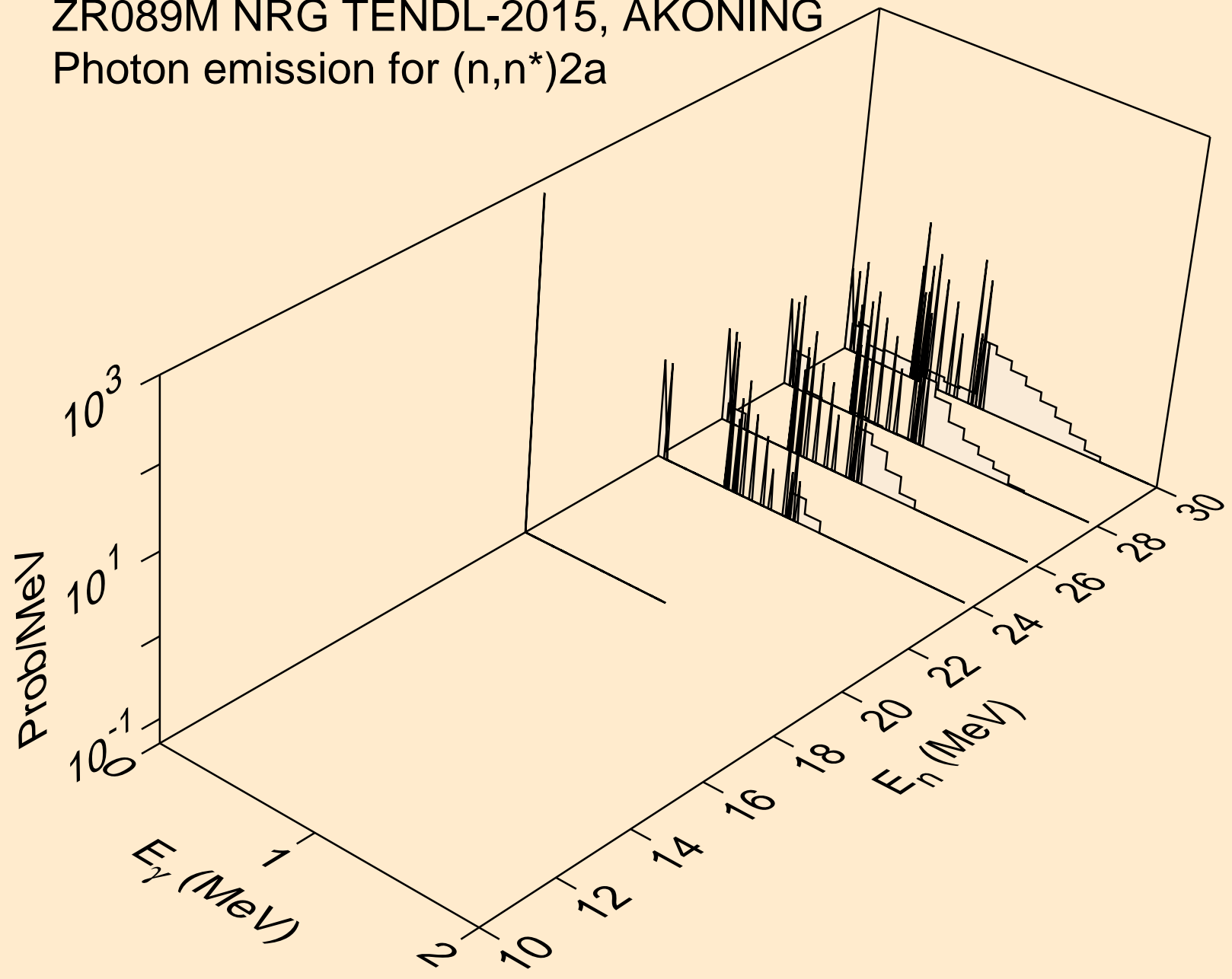
ZR089M NRG TENDL-2015, AKONING  
Photon emission for (n,2n)a



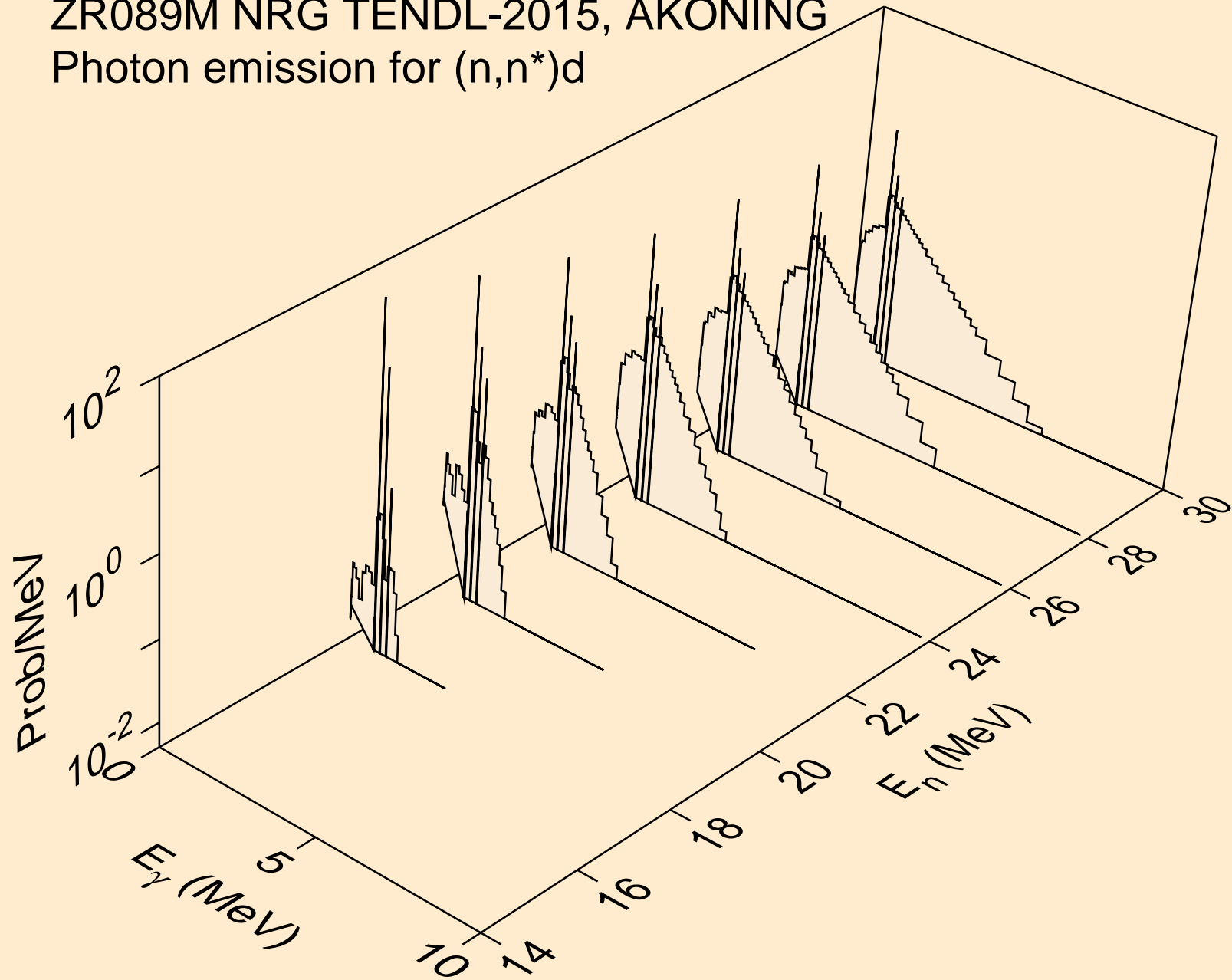
ZR089M NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)p



ZR089M NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)2a

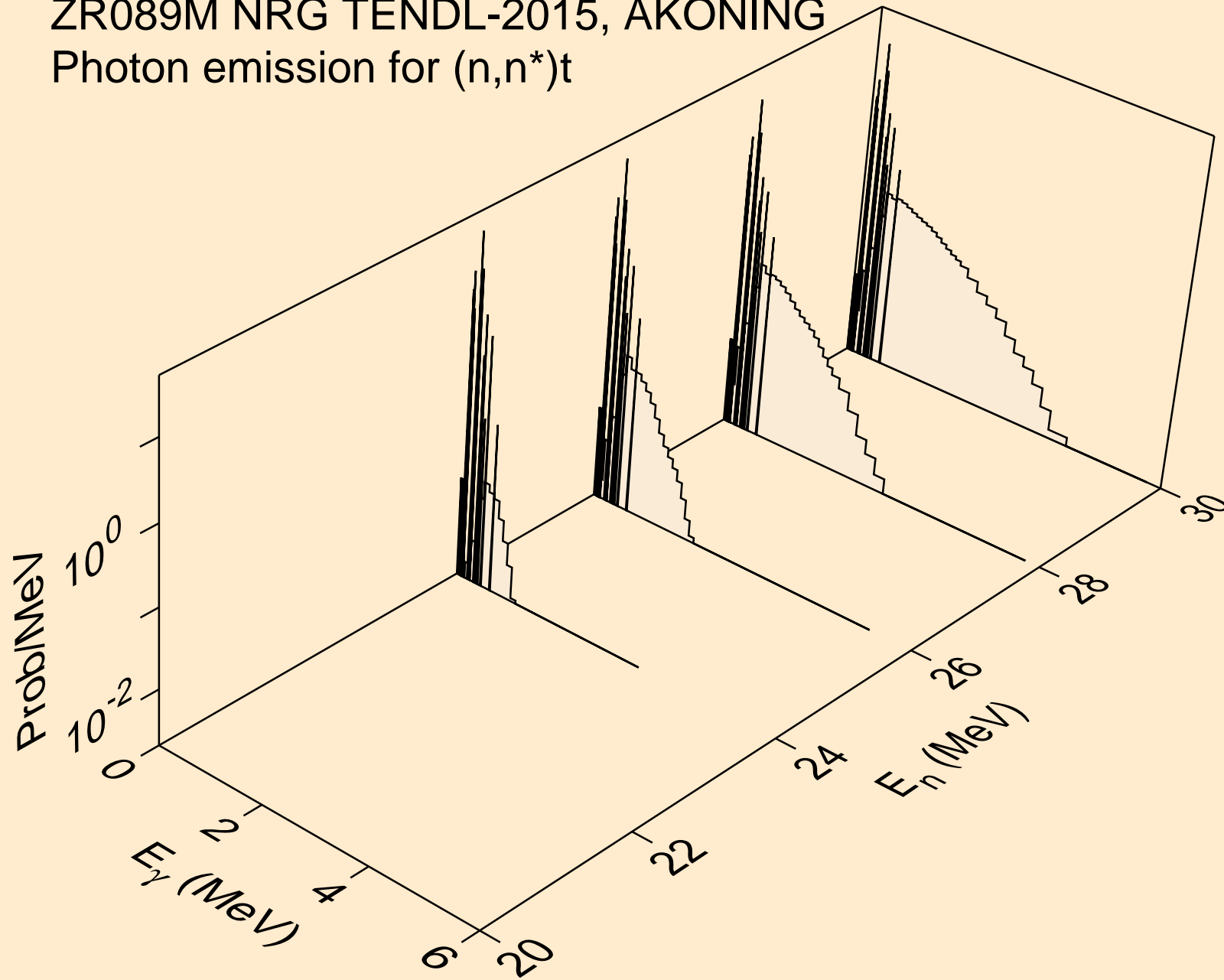


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Photon emission for (n,n\*)d

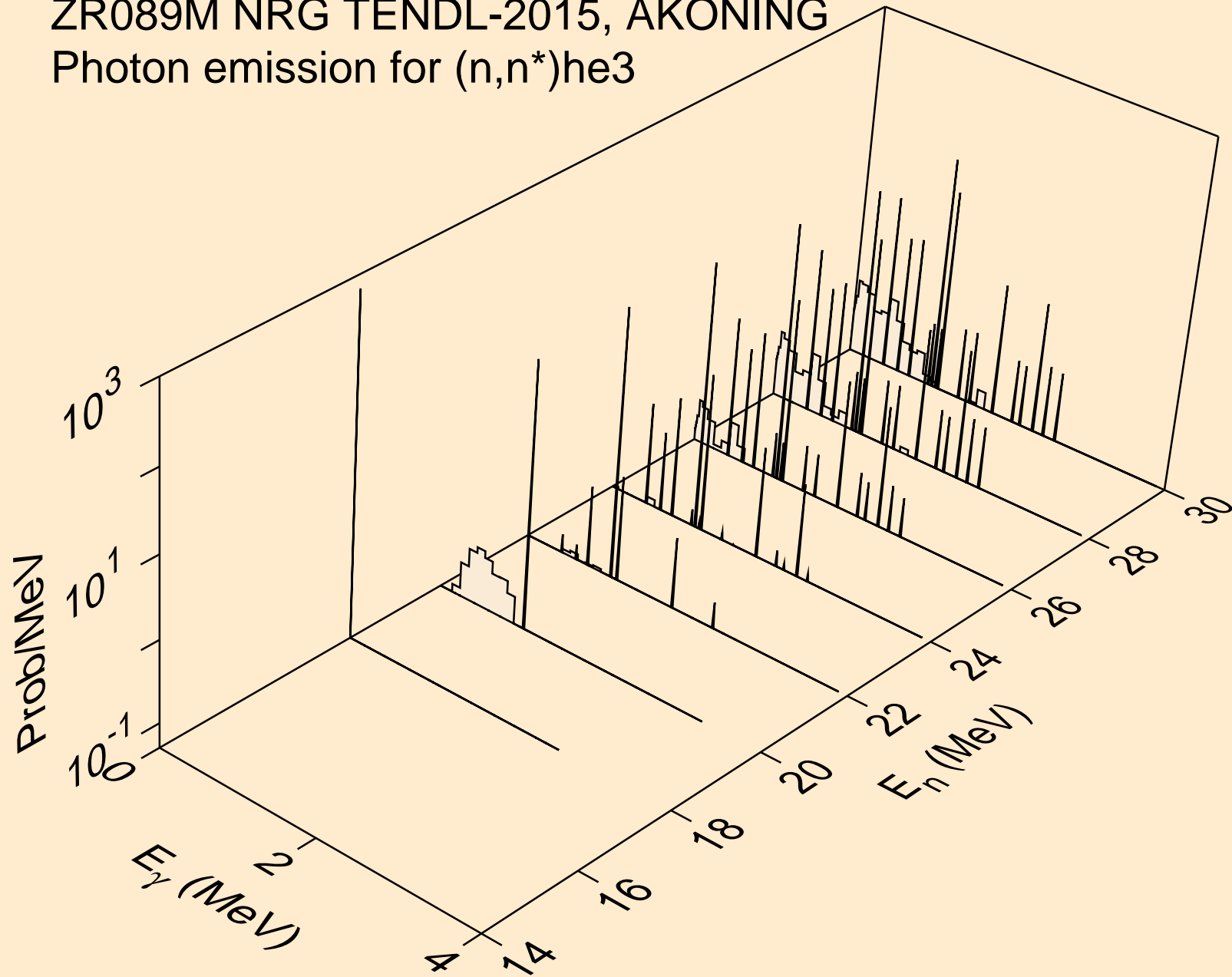




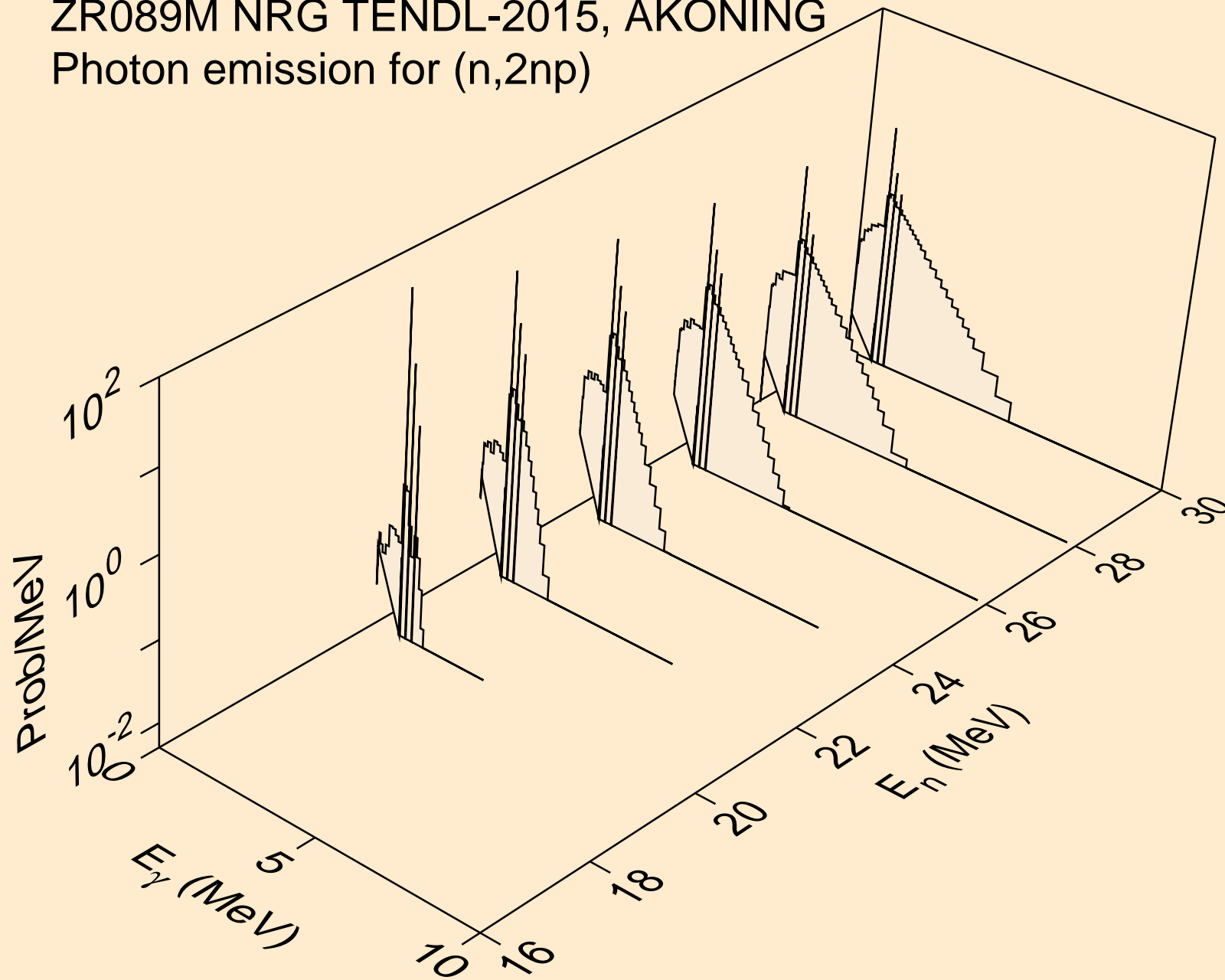
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Photon emission for (n,n\*)t



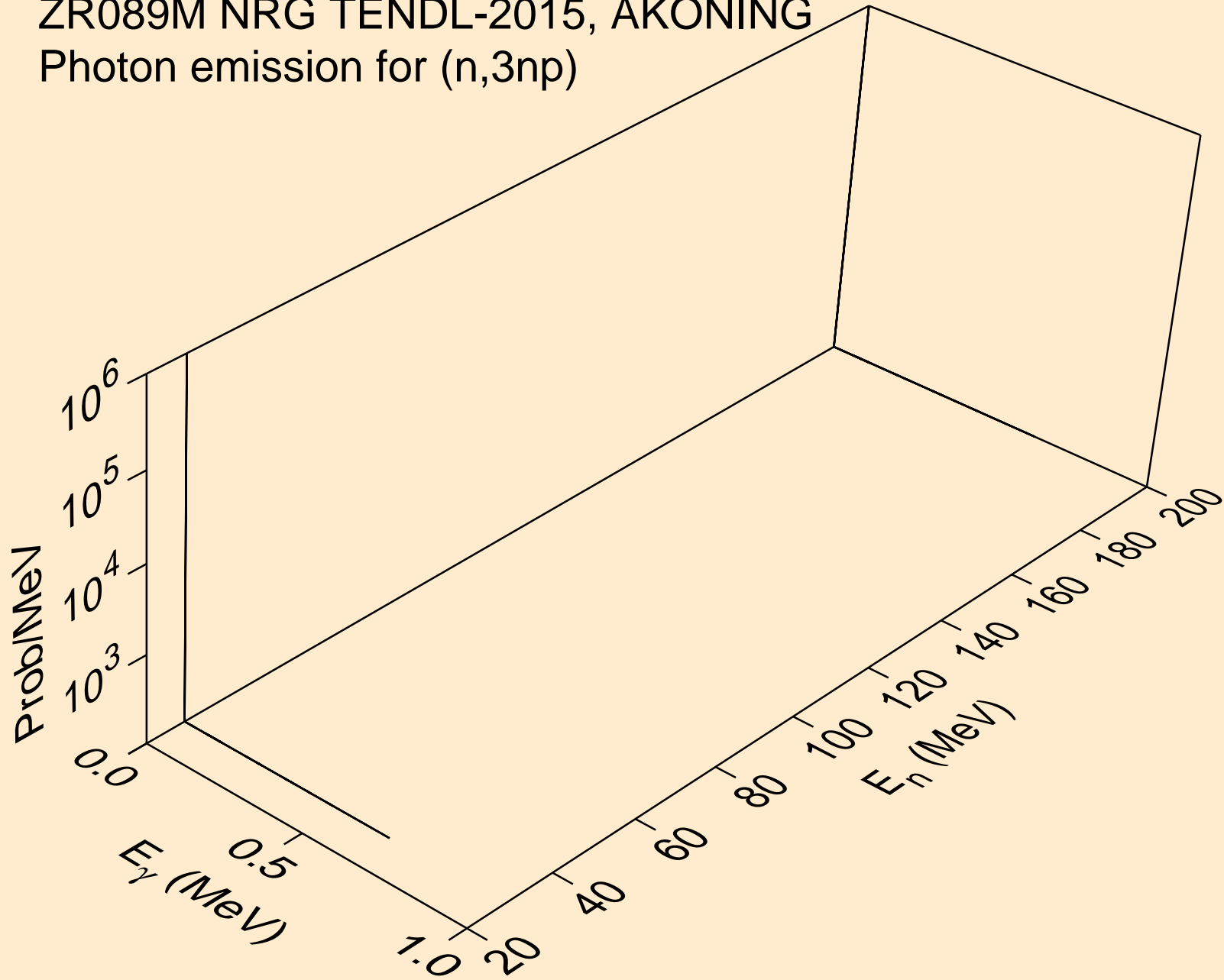
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Photon emission for (n,n\*)he3



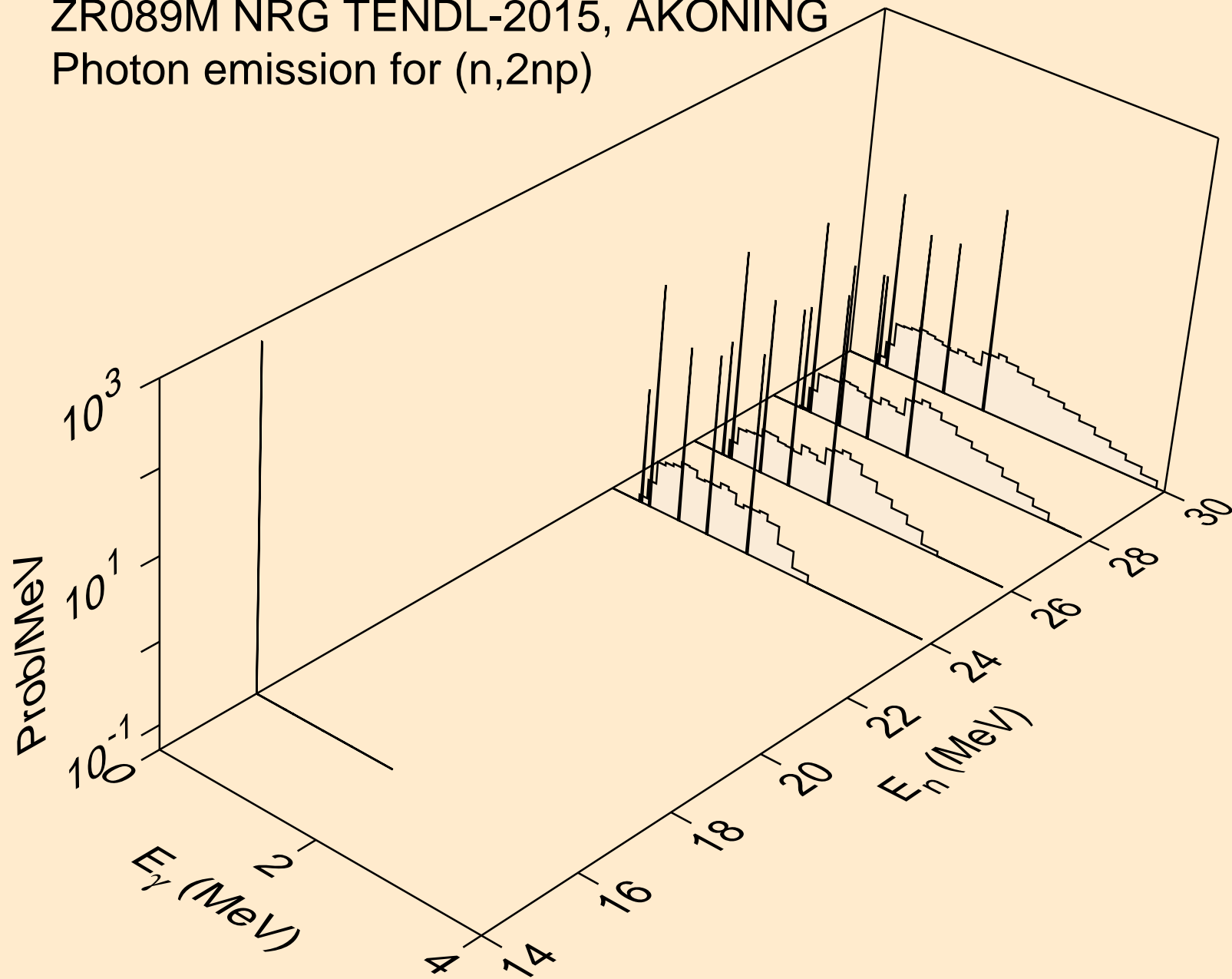
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Photon emission for (n,2np)



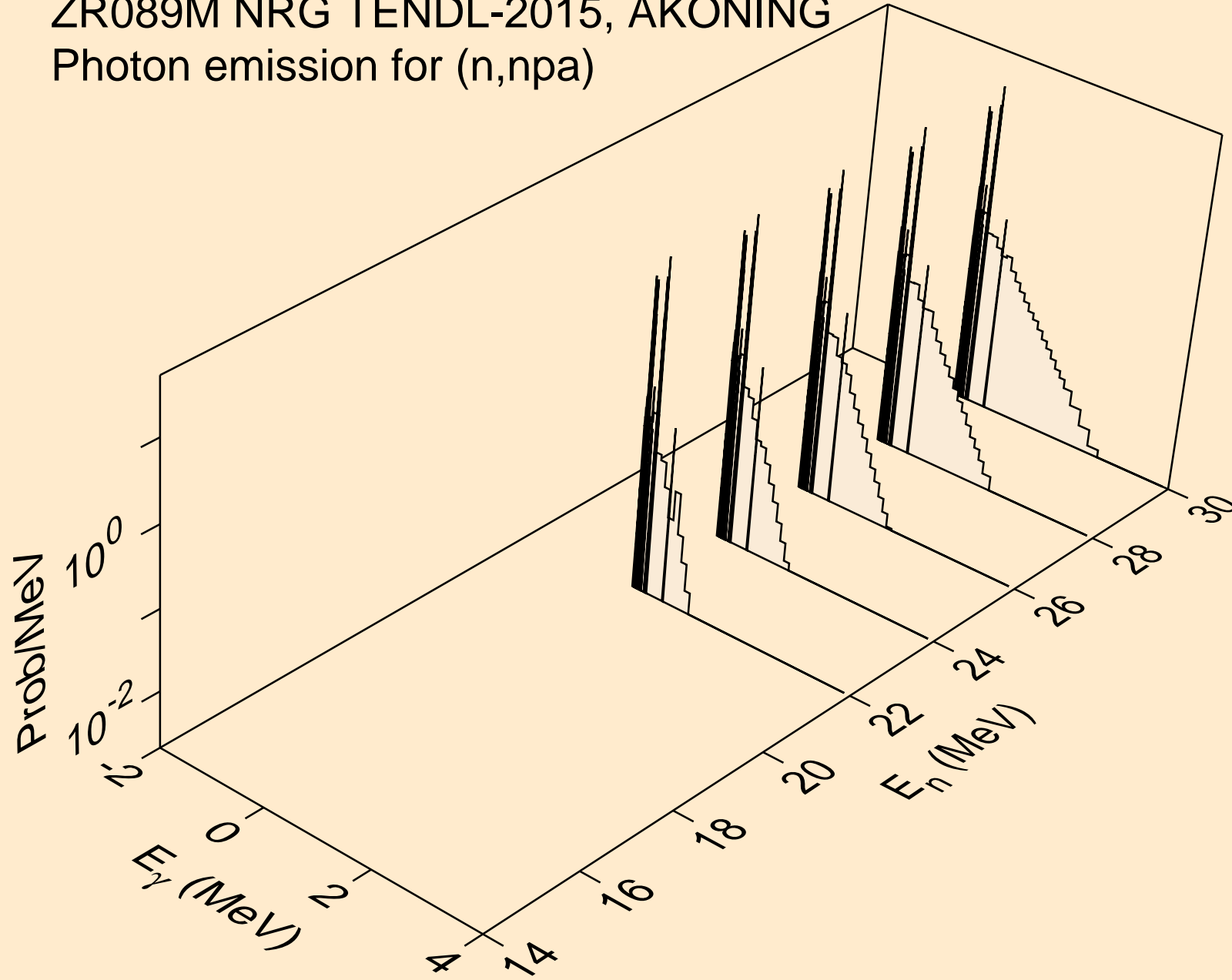
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Photon emission for (n,3np)



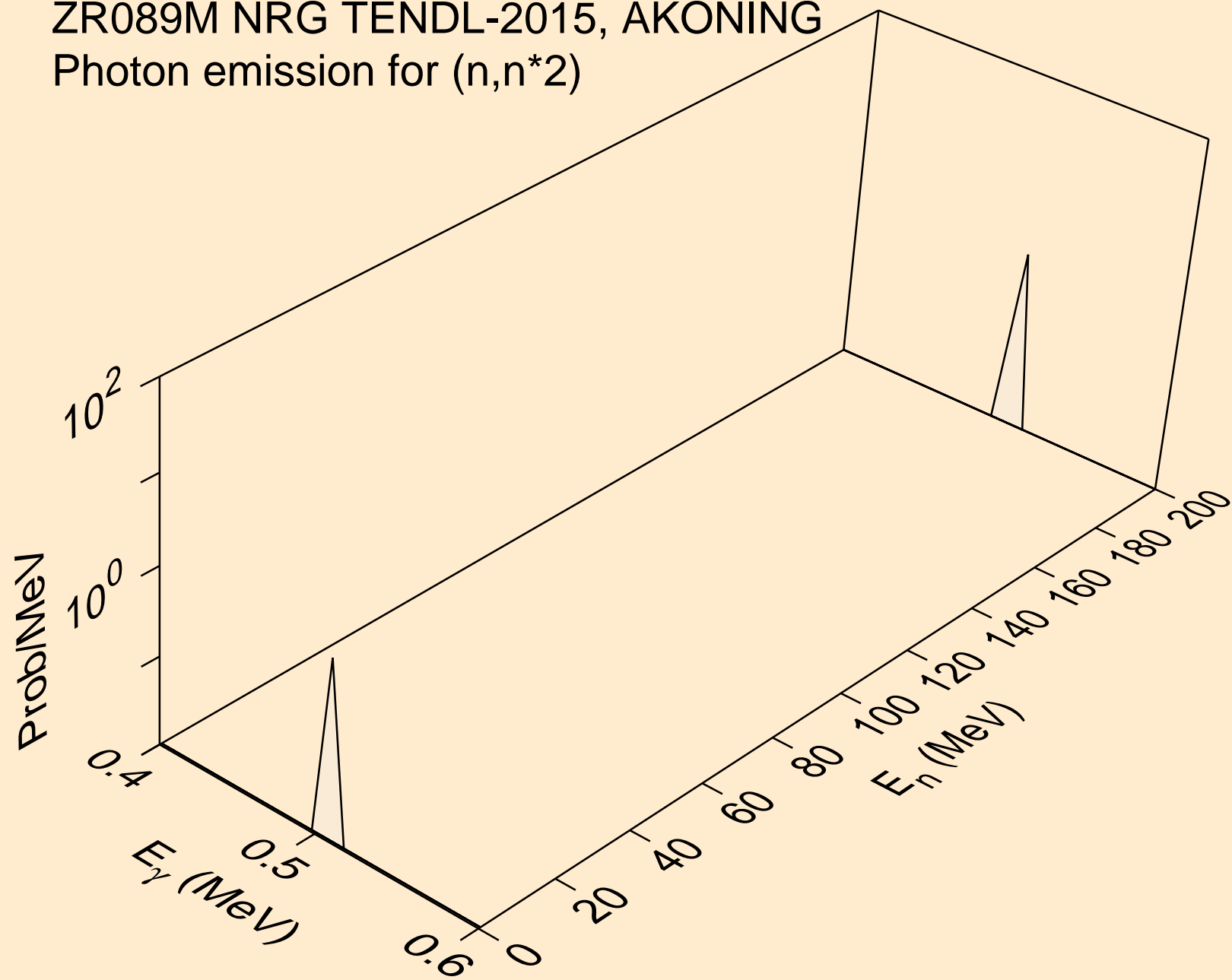
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Photon emission for (n,2np)



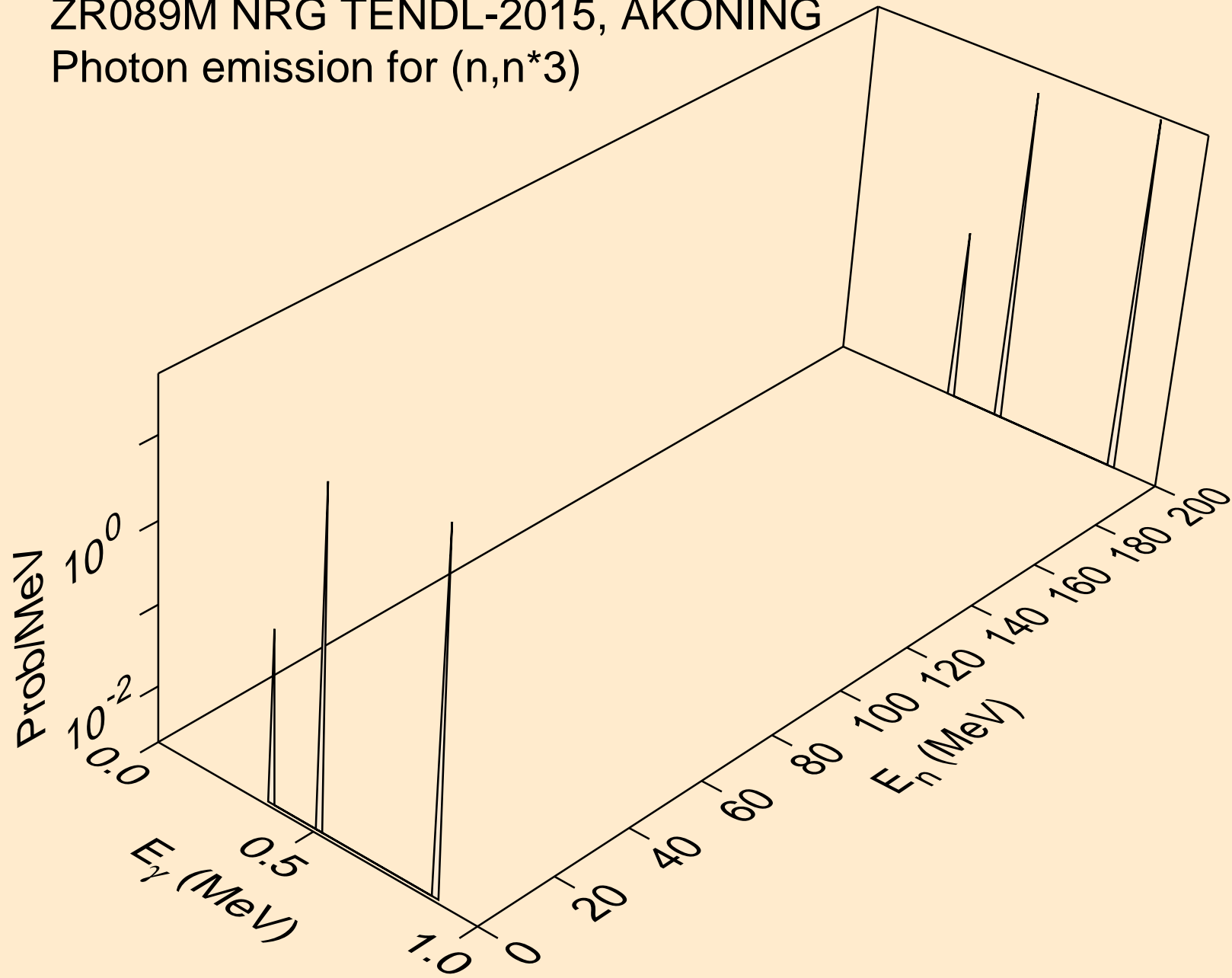
ZR089M NRG TENDL-2015, AKONING  
Photon emission for (n,npa)



ZR089M NRG TENDL-2015, AKONING  
Photon emission for (n,n\*2)

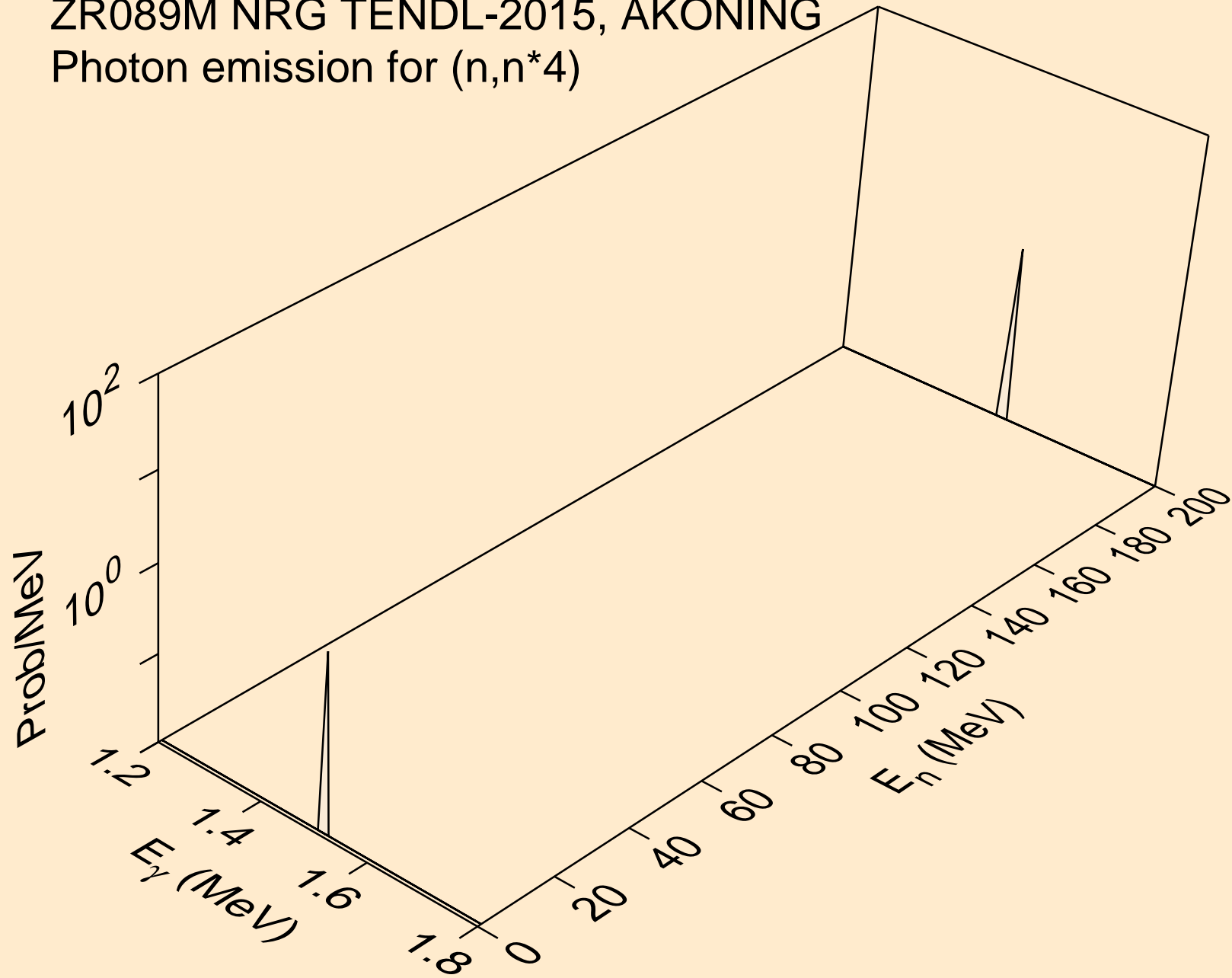


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Photon emission for (n,n\*3)

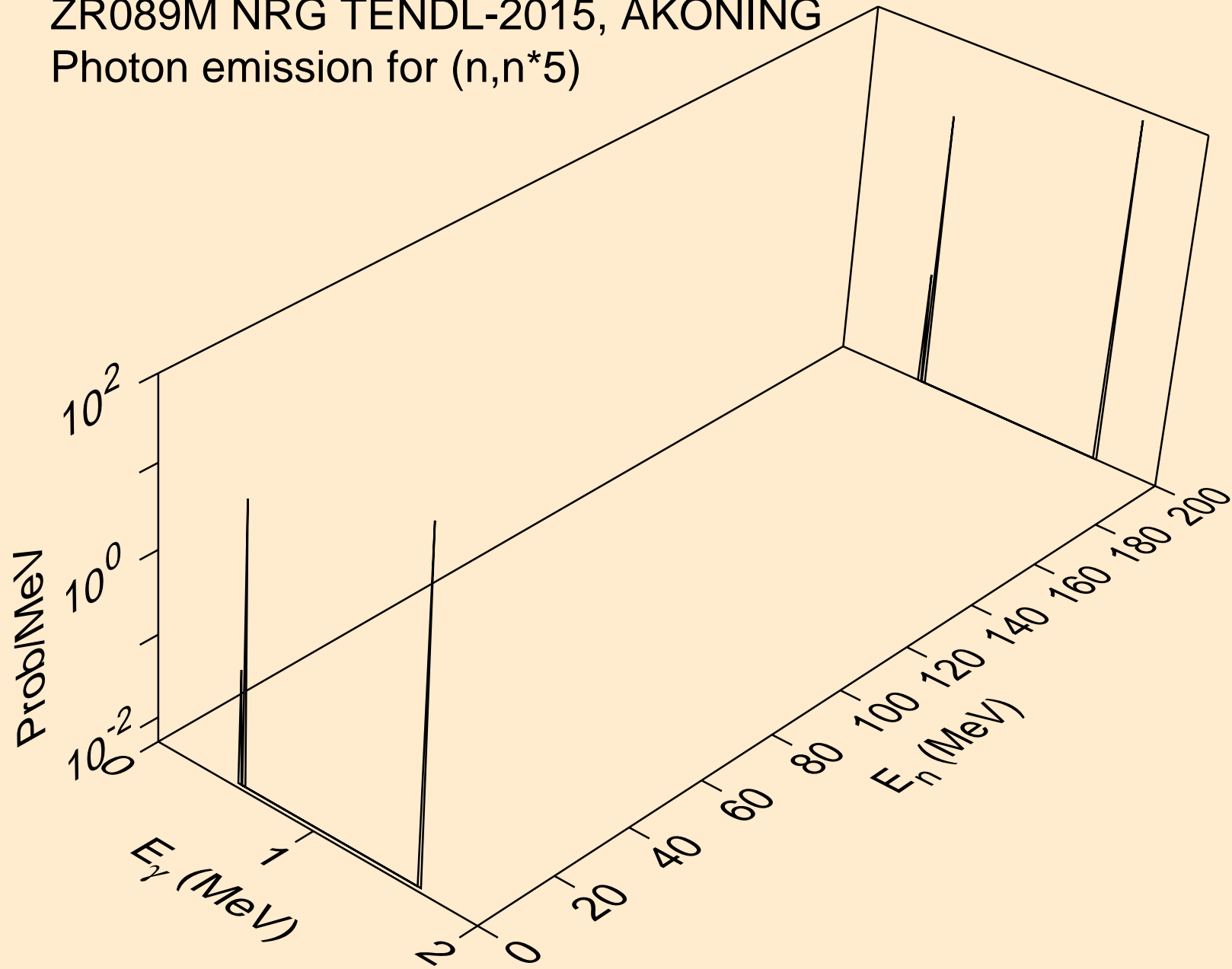




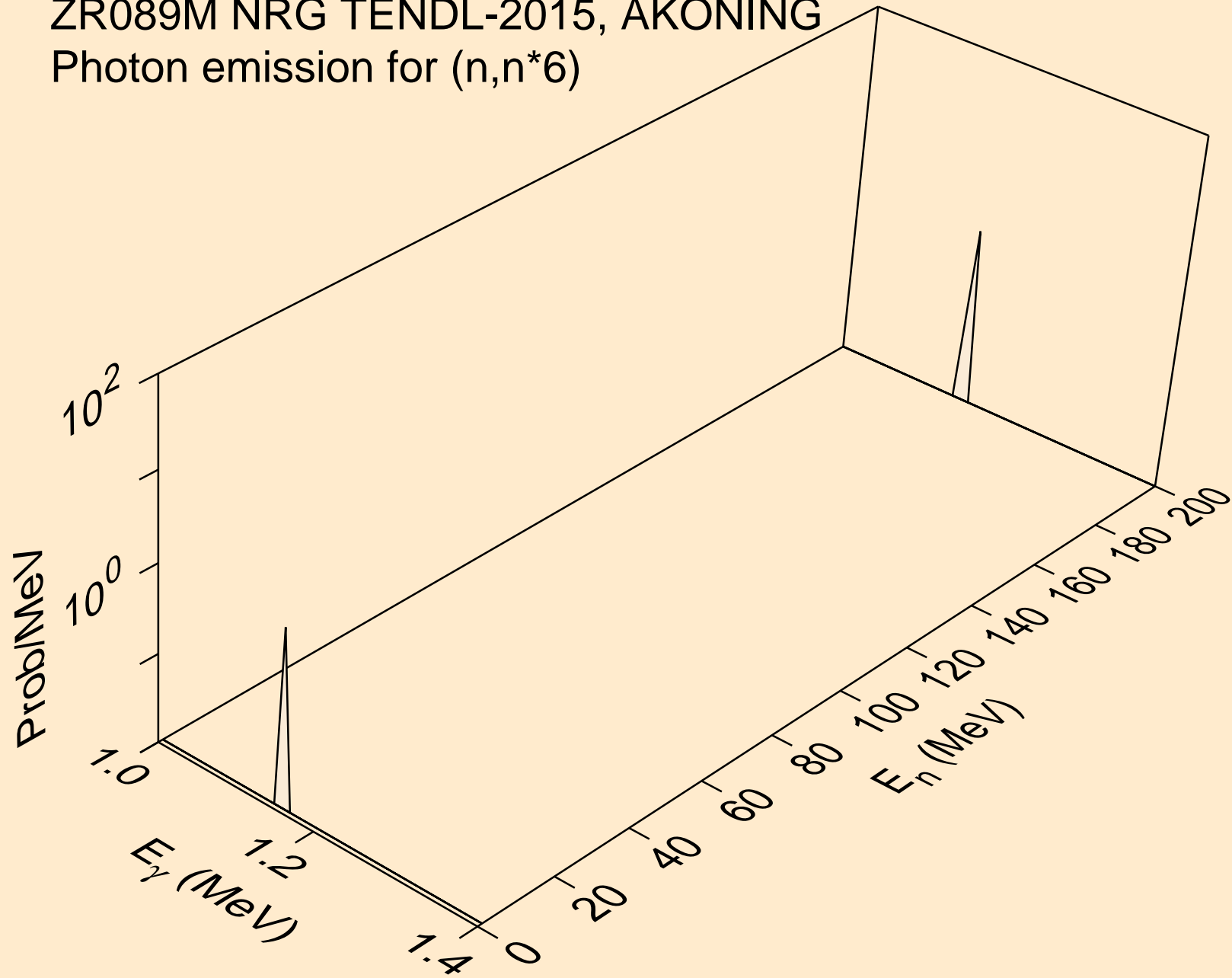
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Photon emission for (n,n\*4)



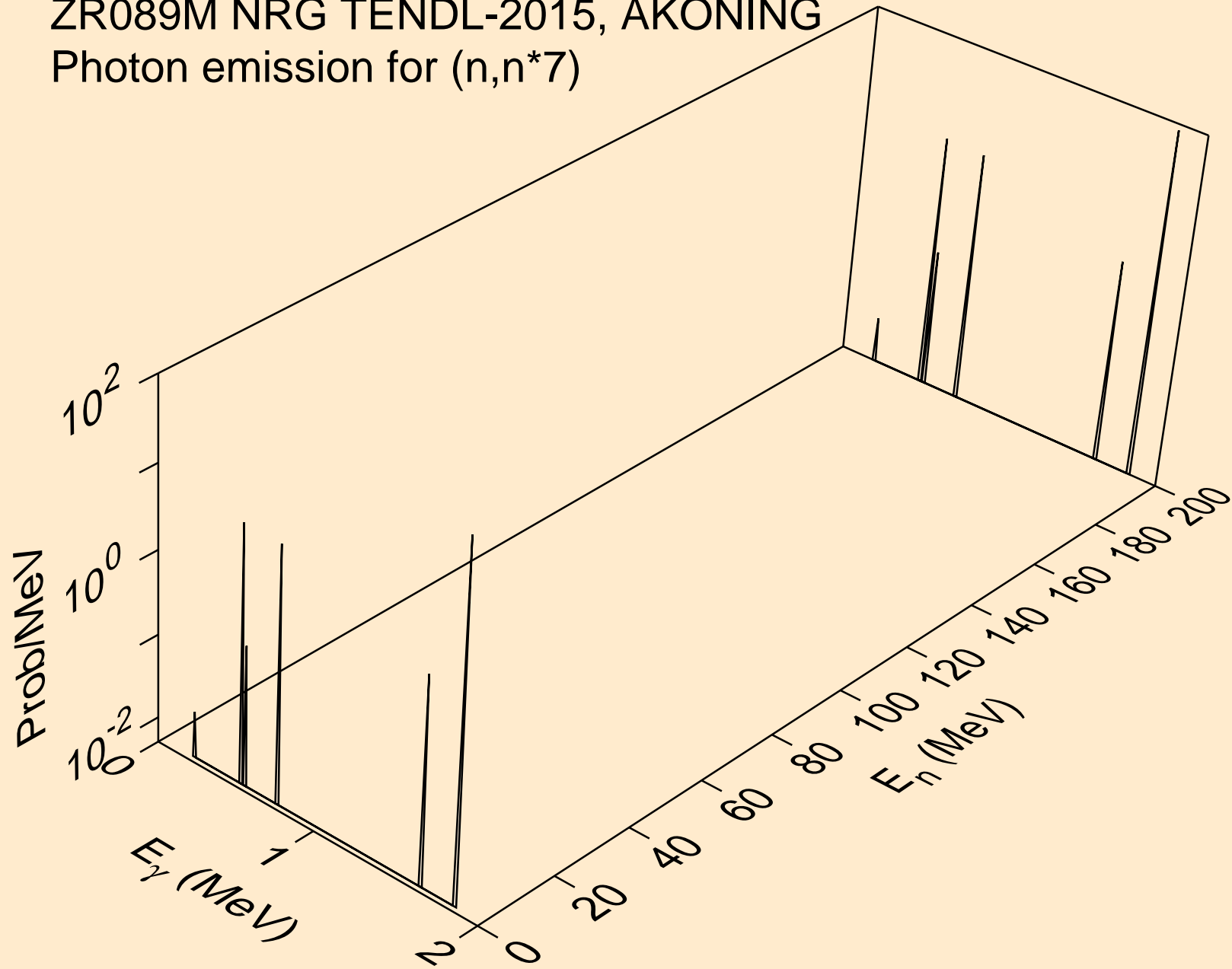
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Photon emission for (n,n\*5)



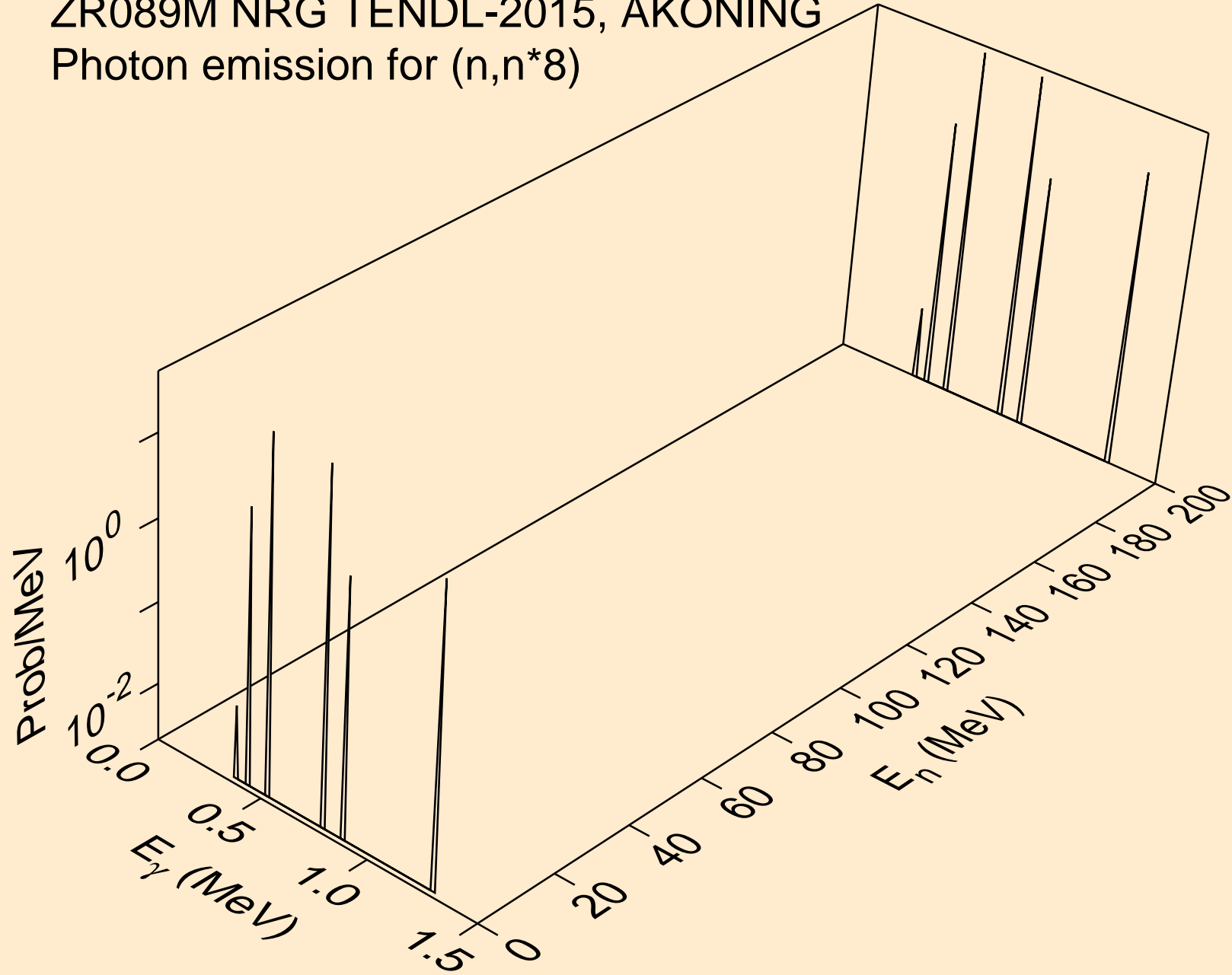
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Photon emission for (n,n\*6)



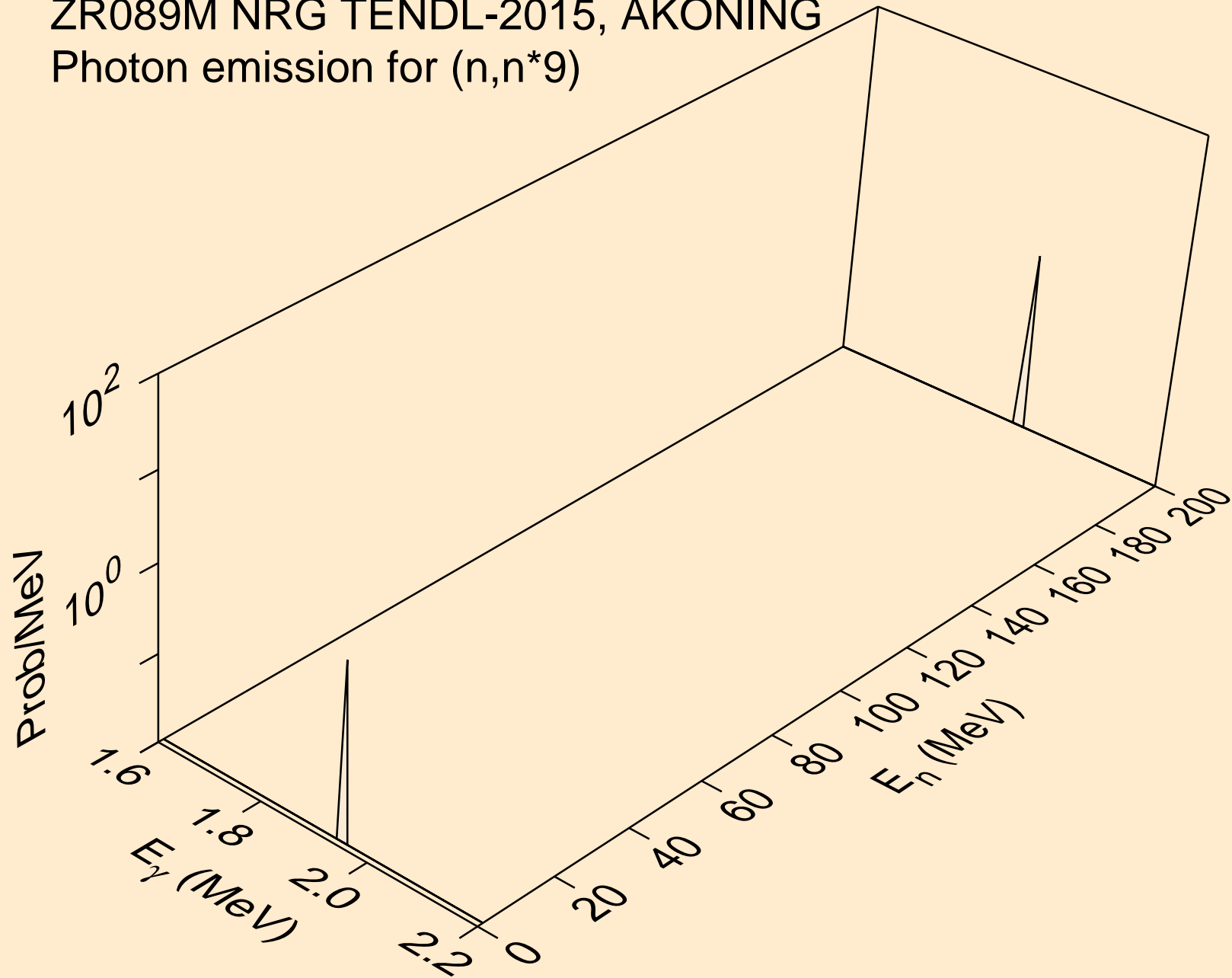
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Photon emission for (n,n\*7)



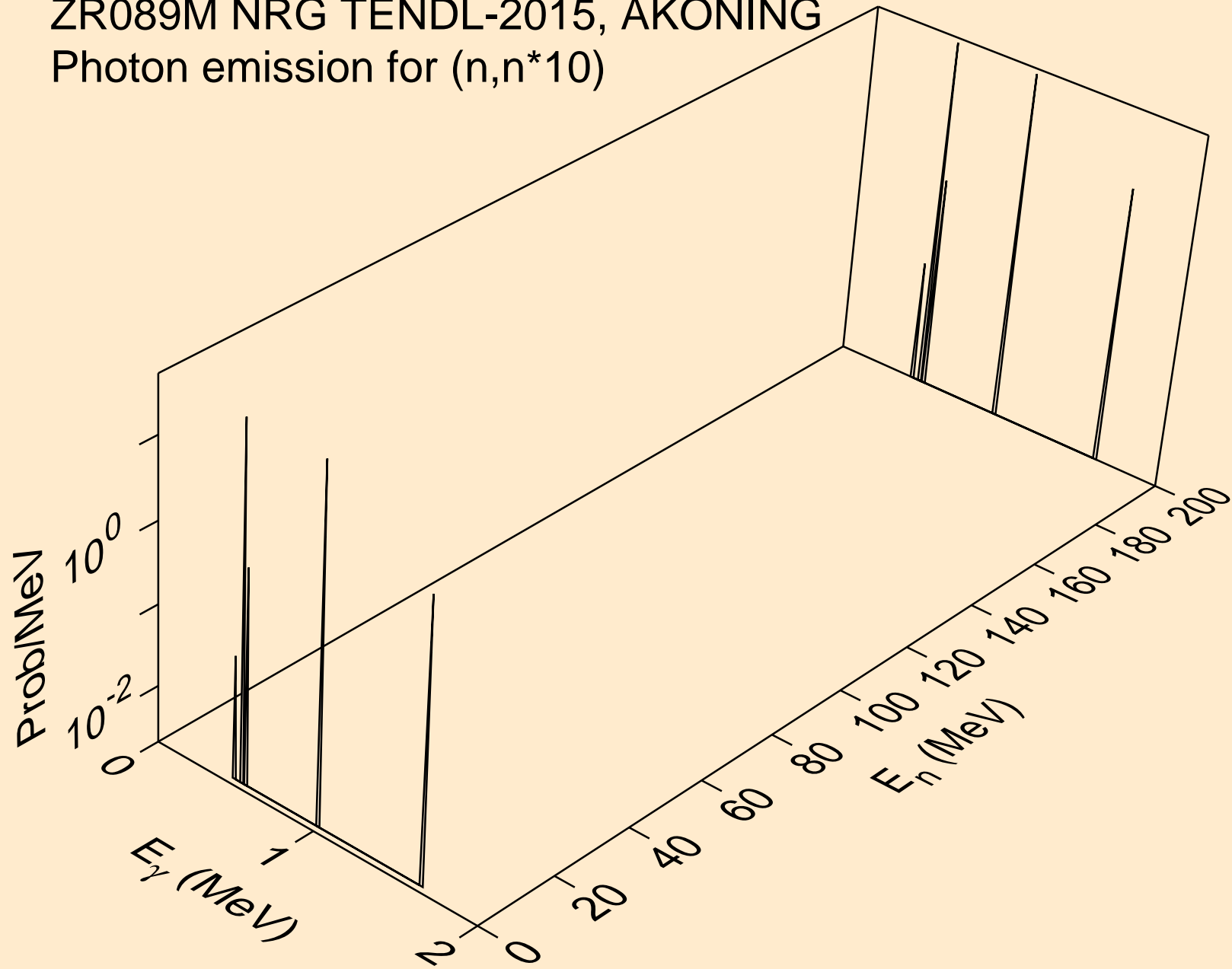
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Photon emission for (n,n\*8)



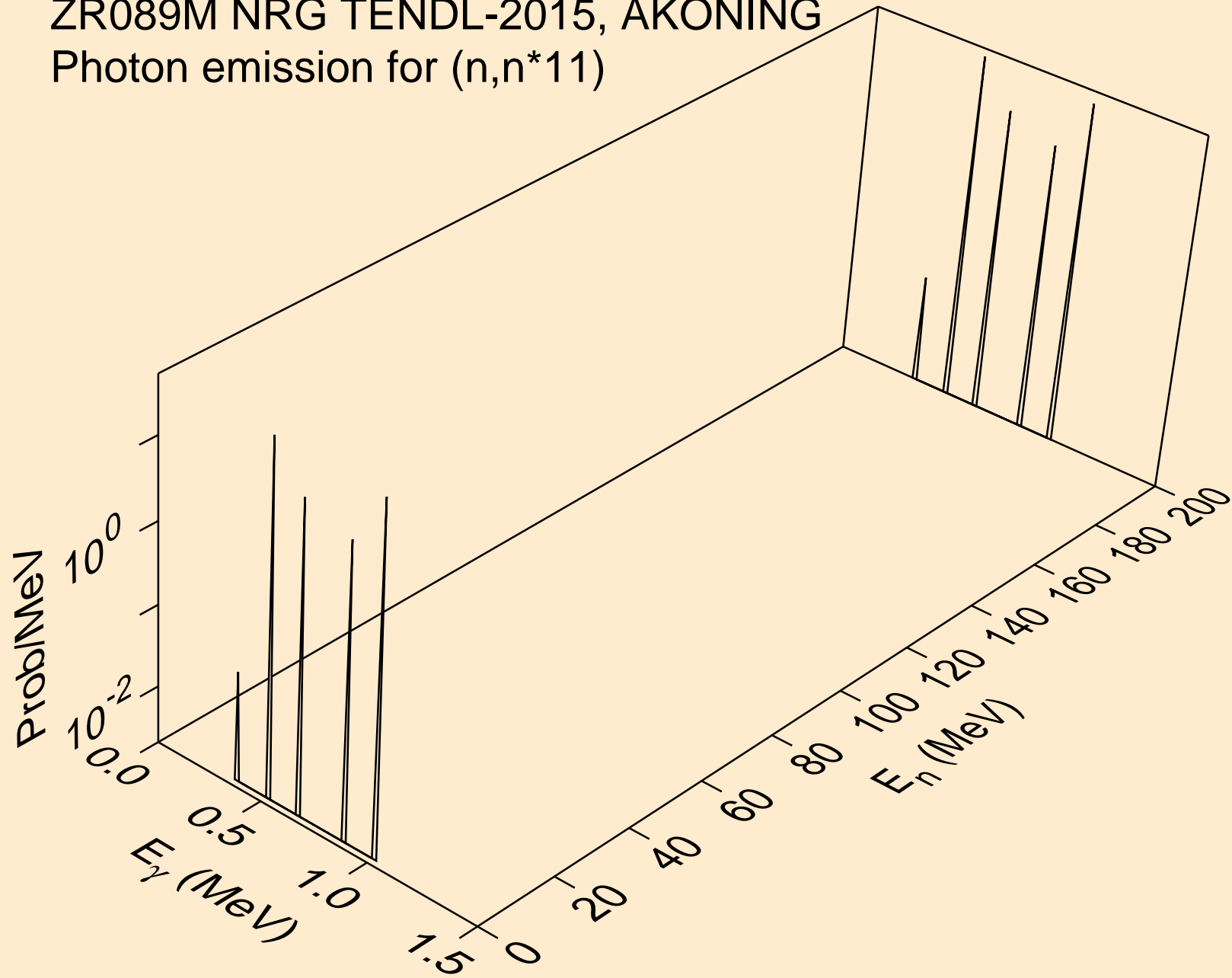
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Photon emission for (n,n\*9)



ZR089M NRG TENDL-2015, AKONING  
Photon emission for (n,n\*10)

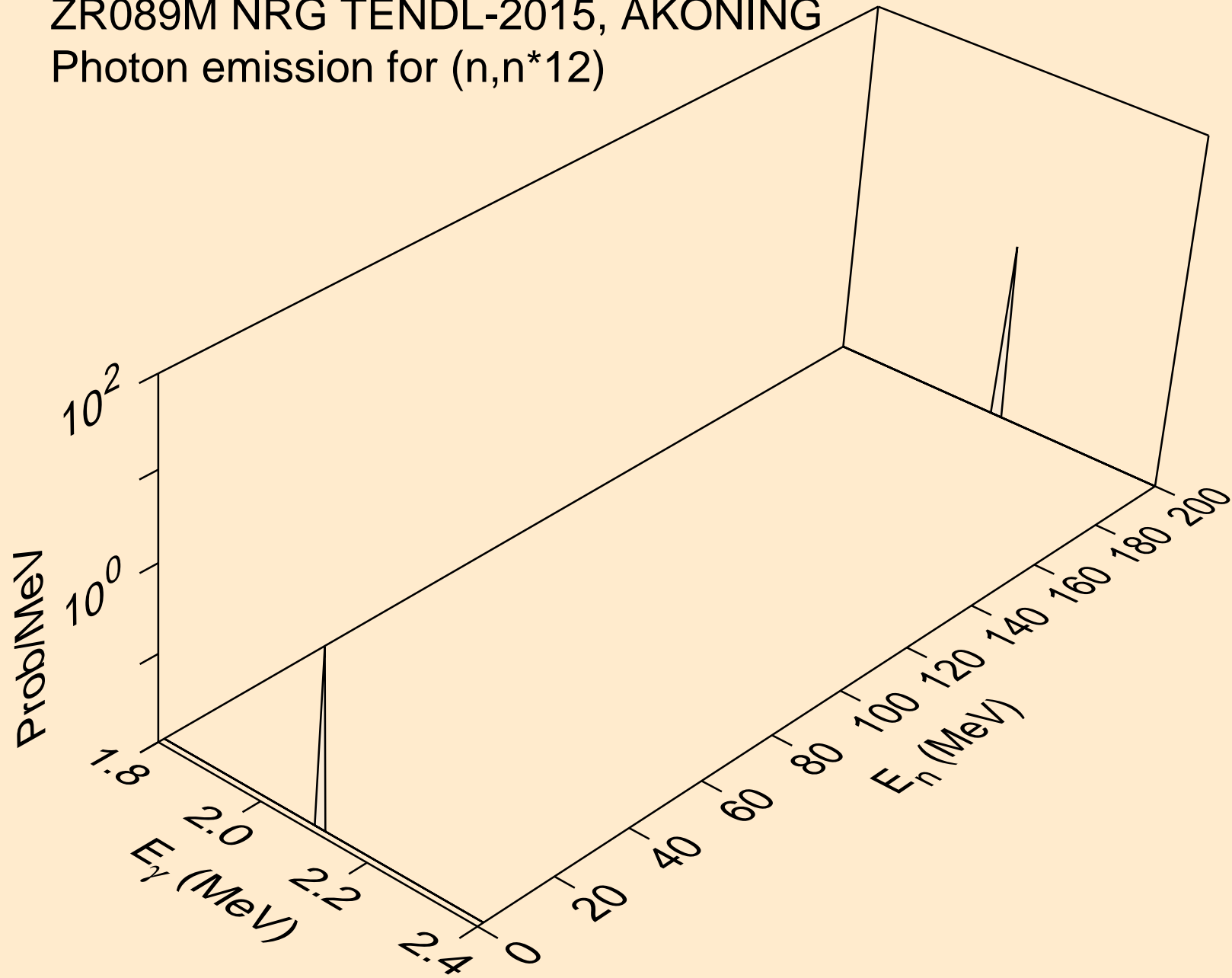


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Photon emission for (n,n\*11)

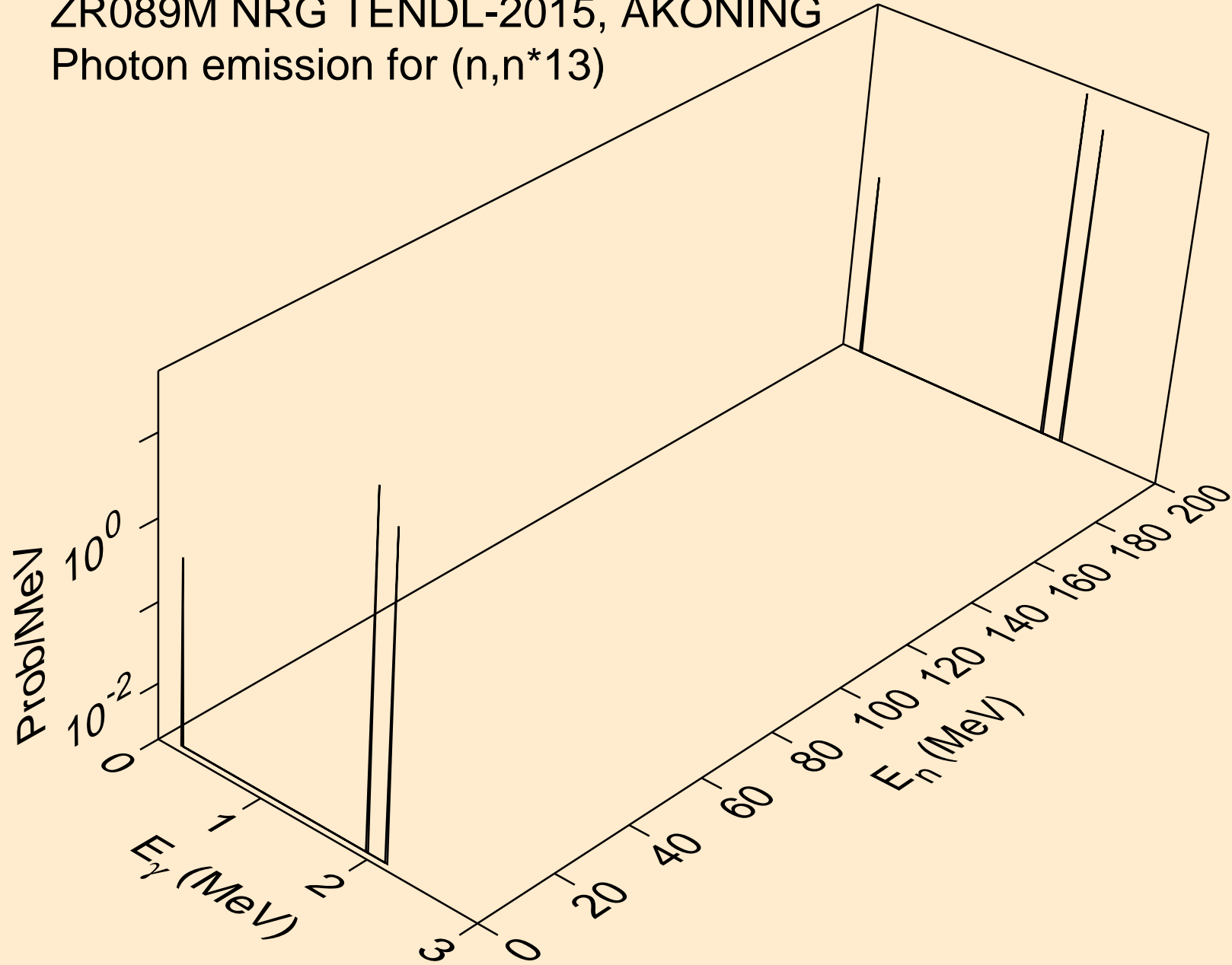




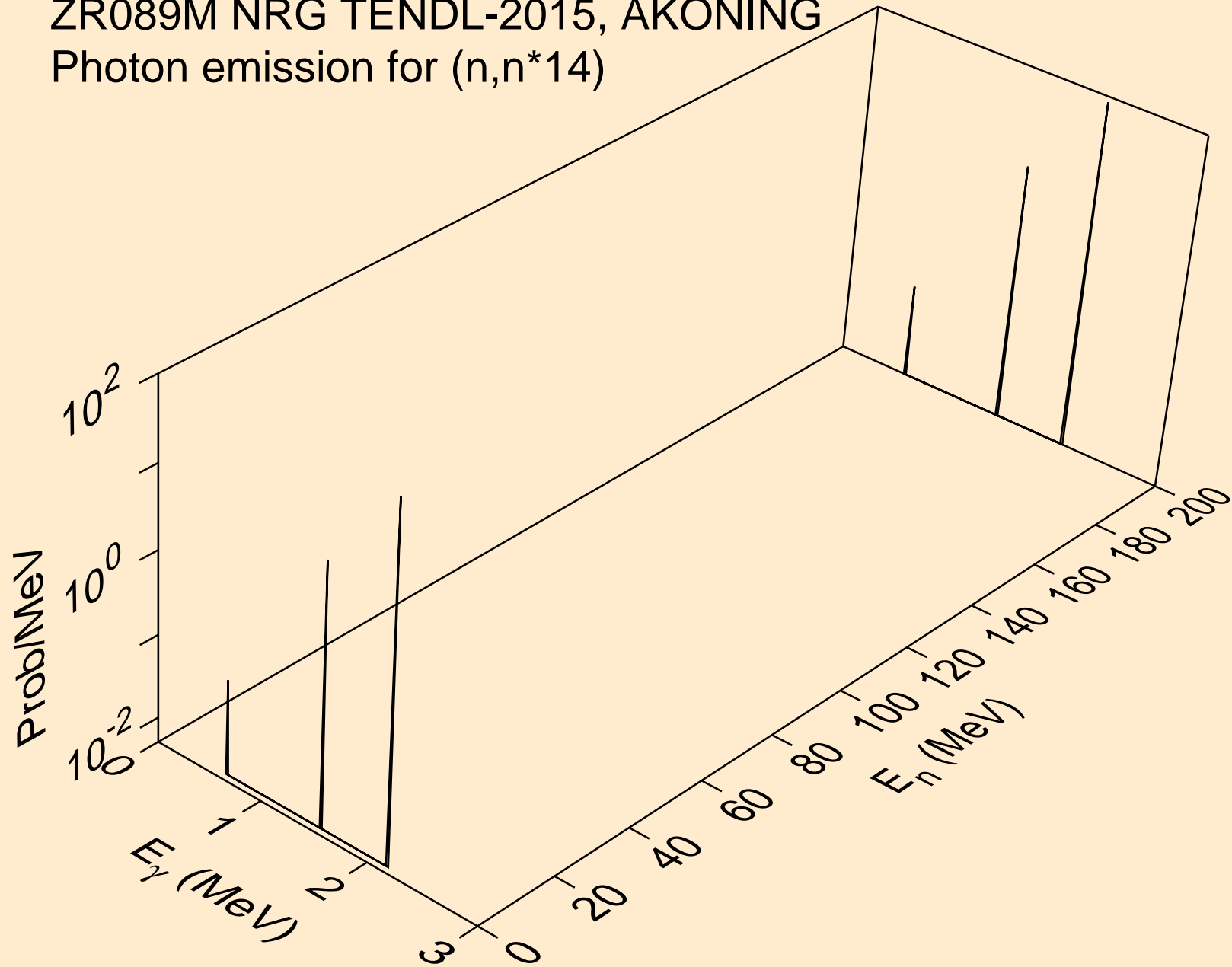
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Photon emission for (n,n\*12)



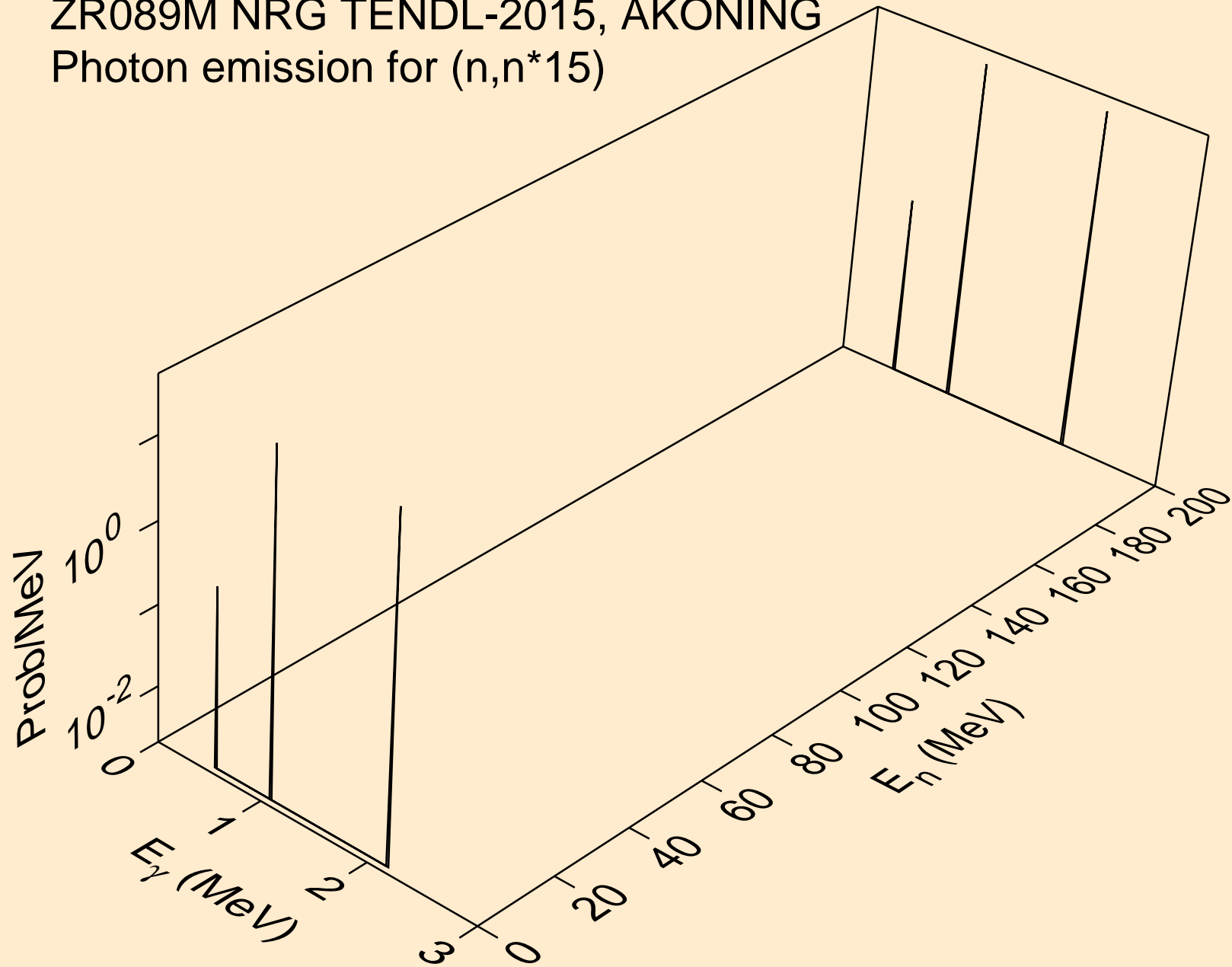
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Photon emission for (n,n\*13)



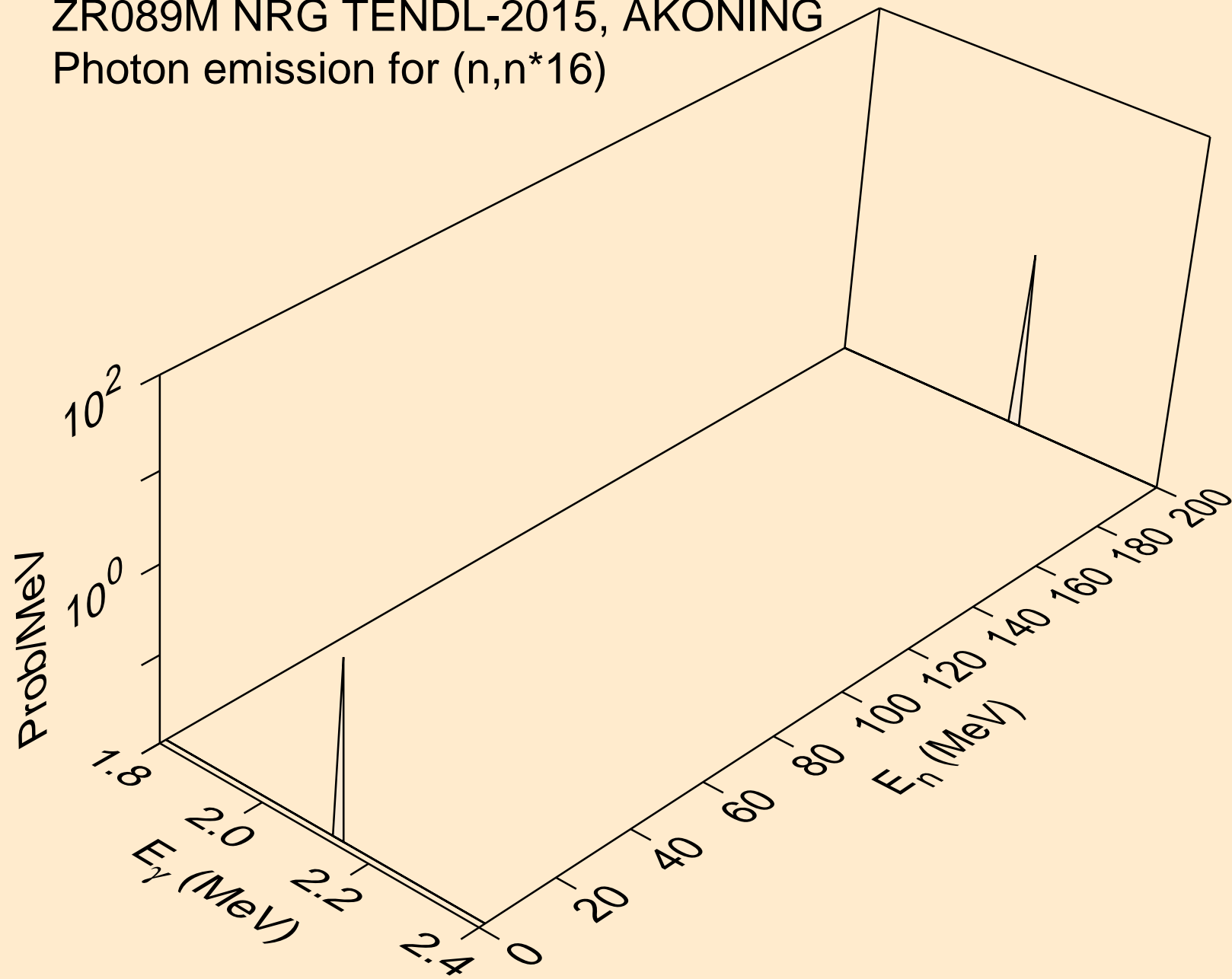
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Photon emission for (n,n\*14)



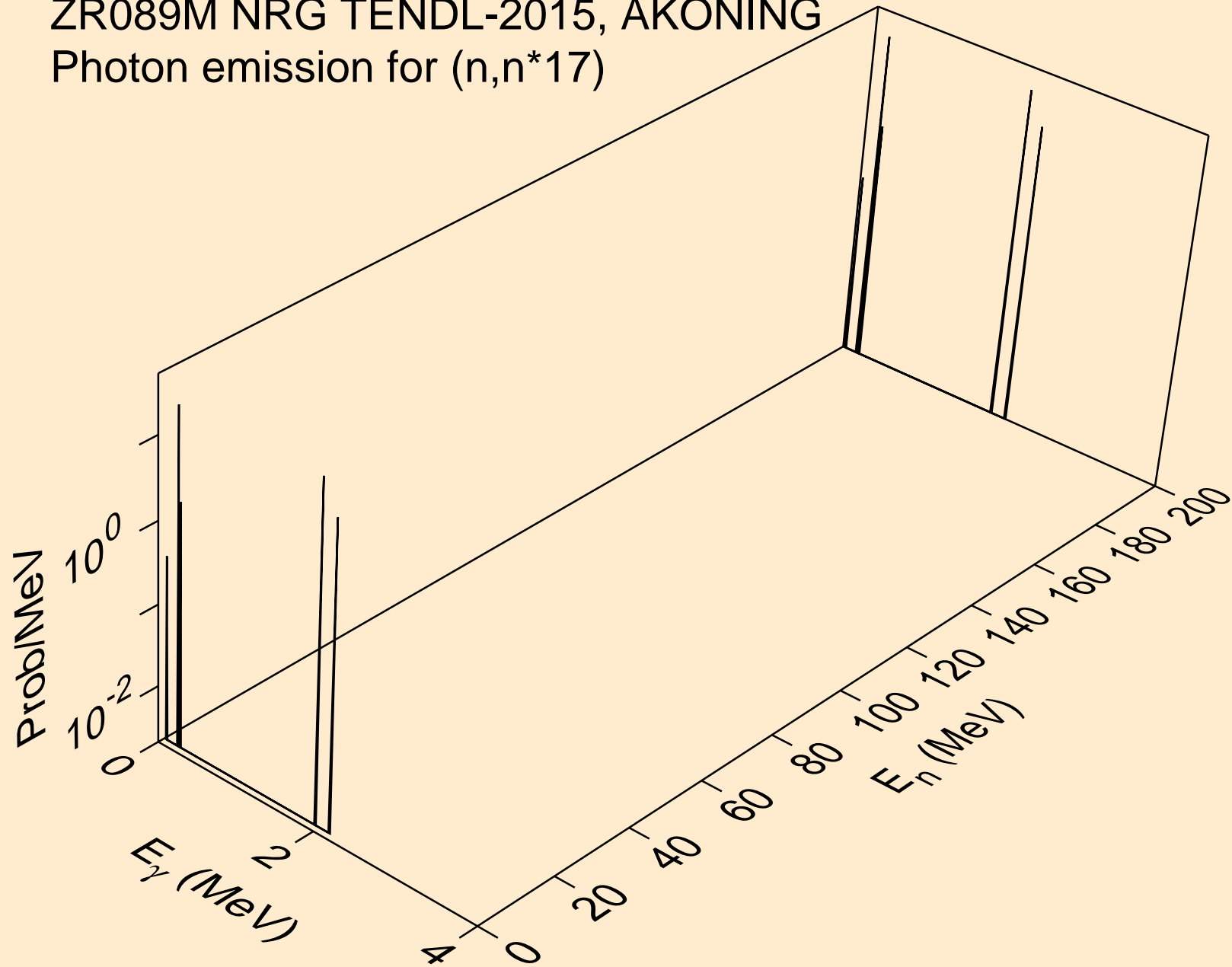
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Photon emission for (n,n\*15)



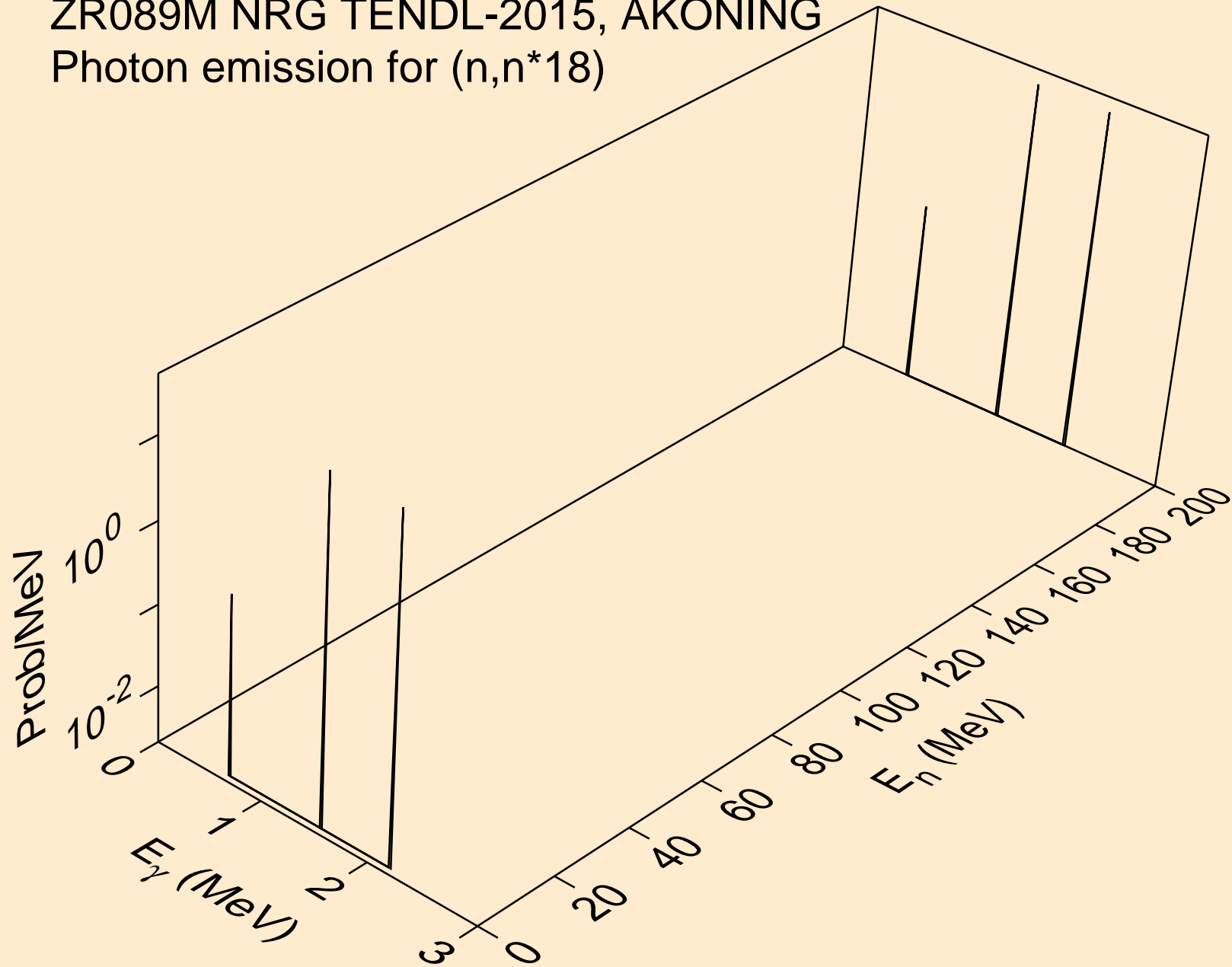
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Photon emission for (n,n\*16)



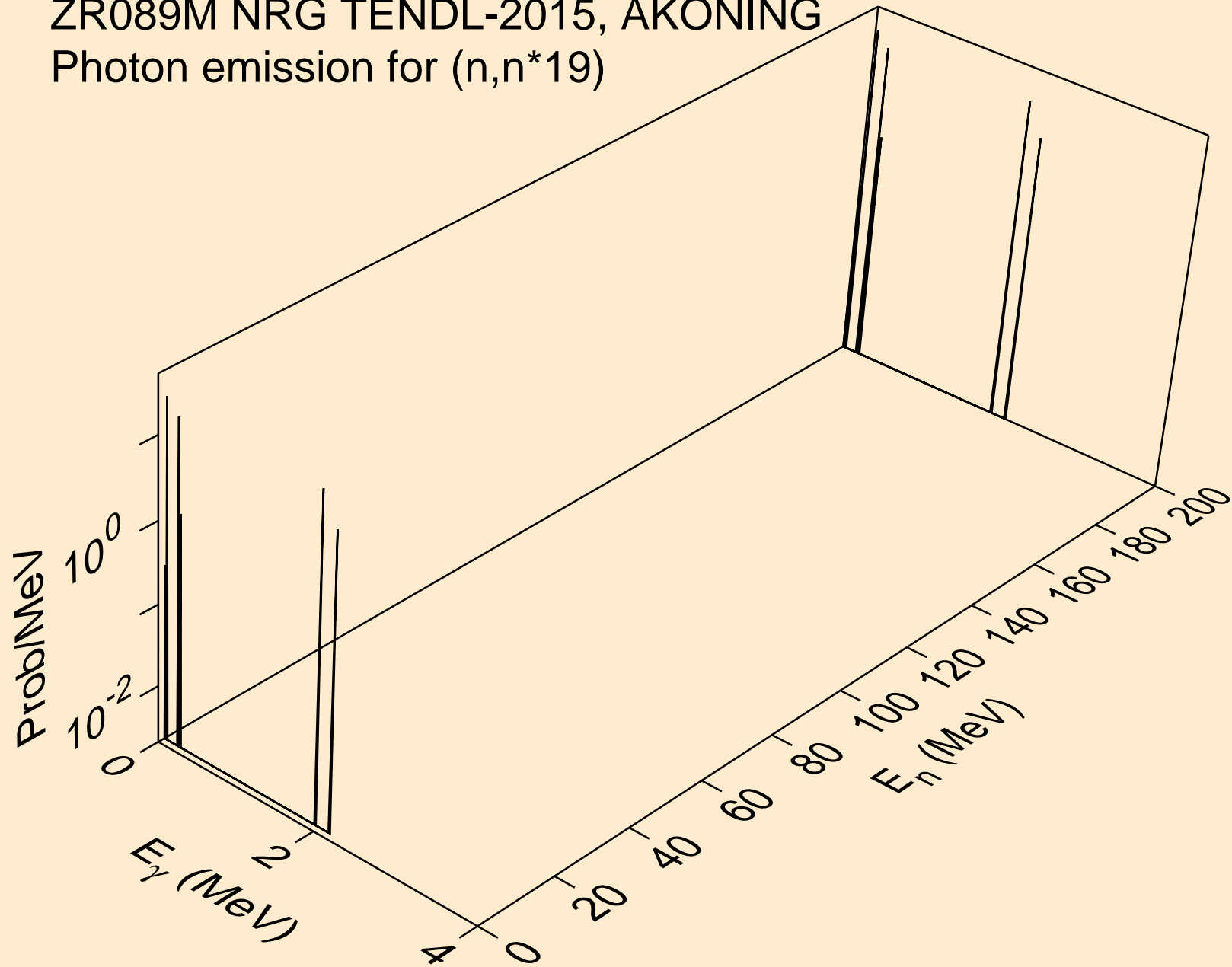
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Photon emission for (n,n\*17)



ZR089M NRG TENDL-2015, AKONING  
Photon emission for (n,n\*18)

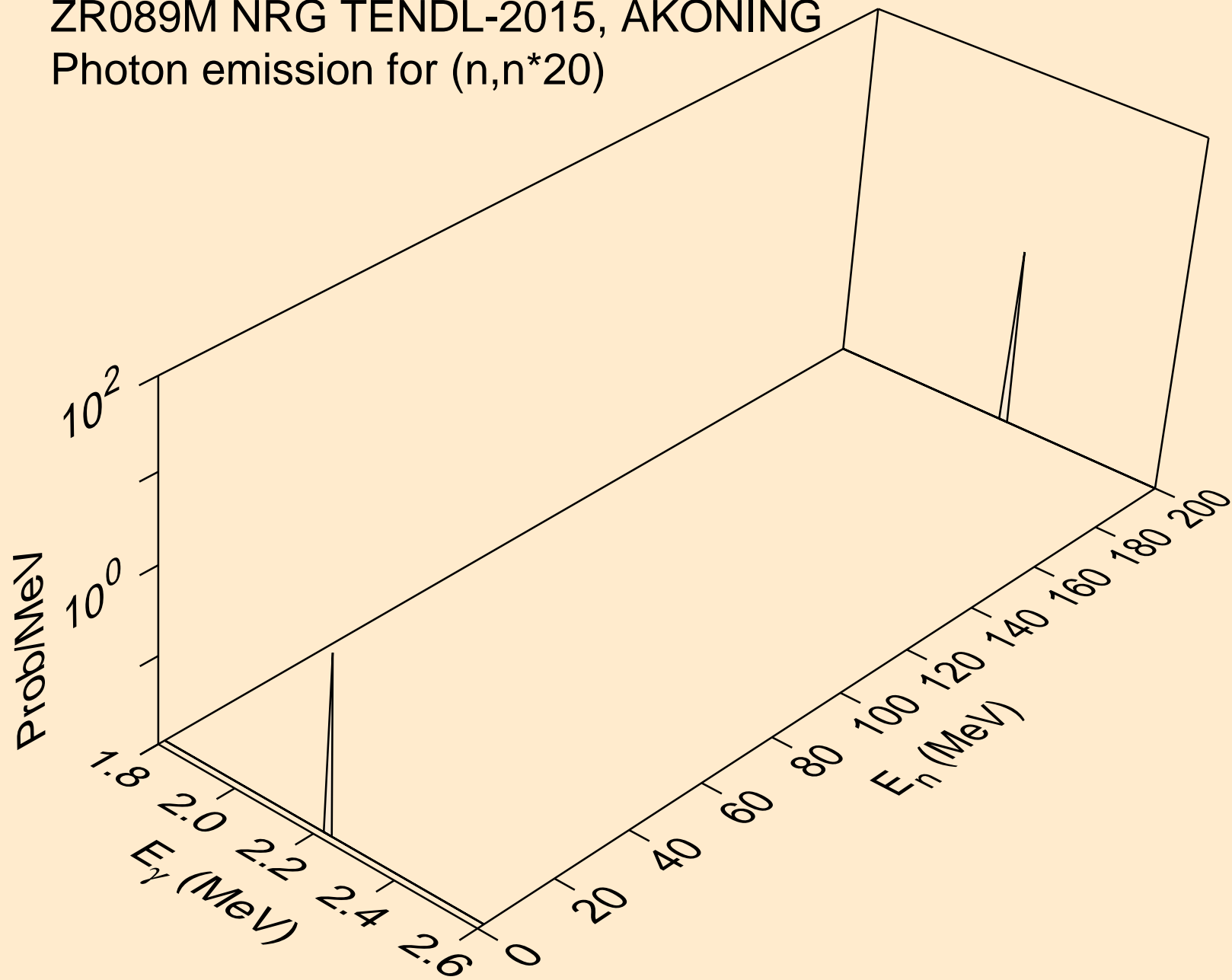


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Photon emission for (n,n\*19)

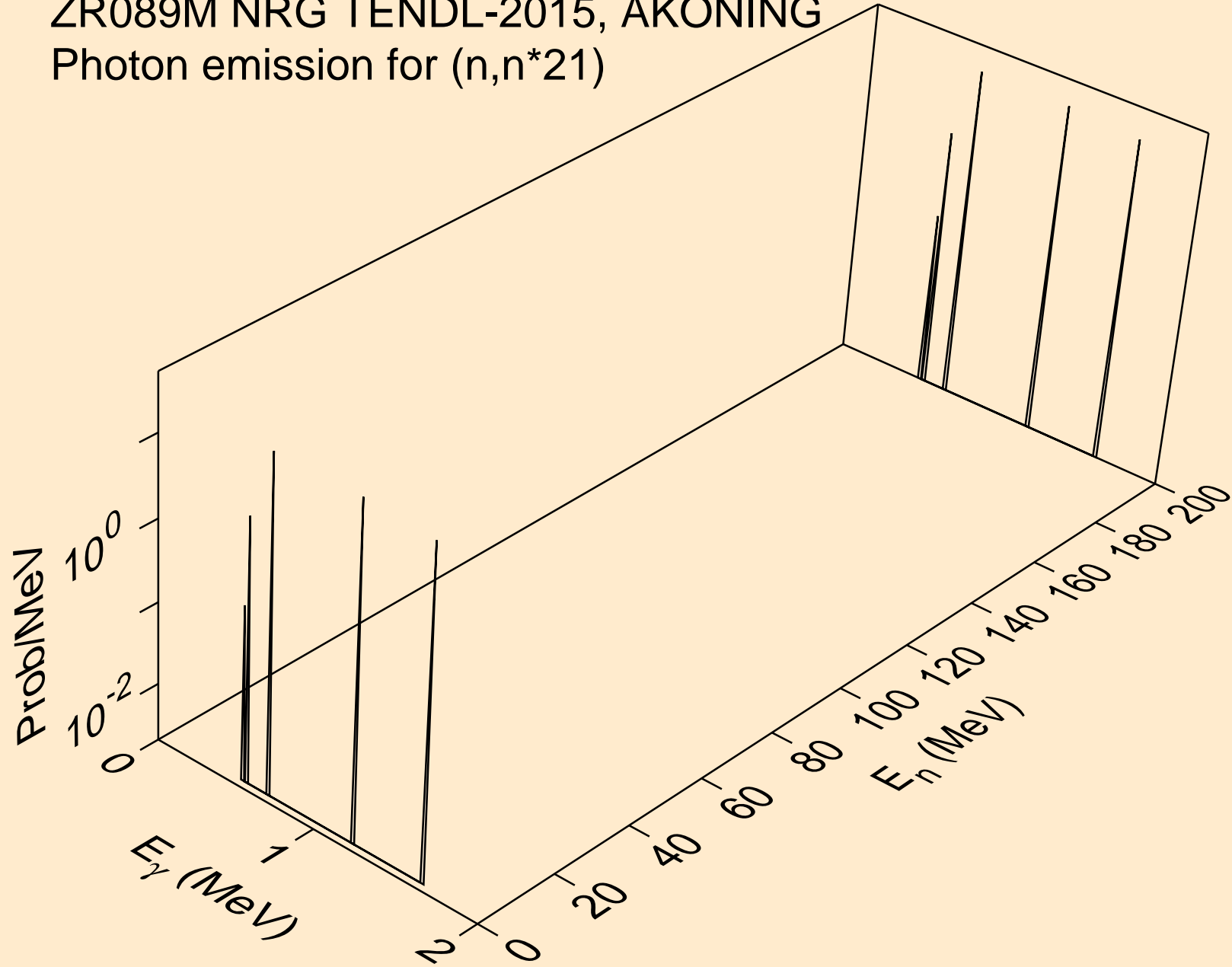




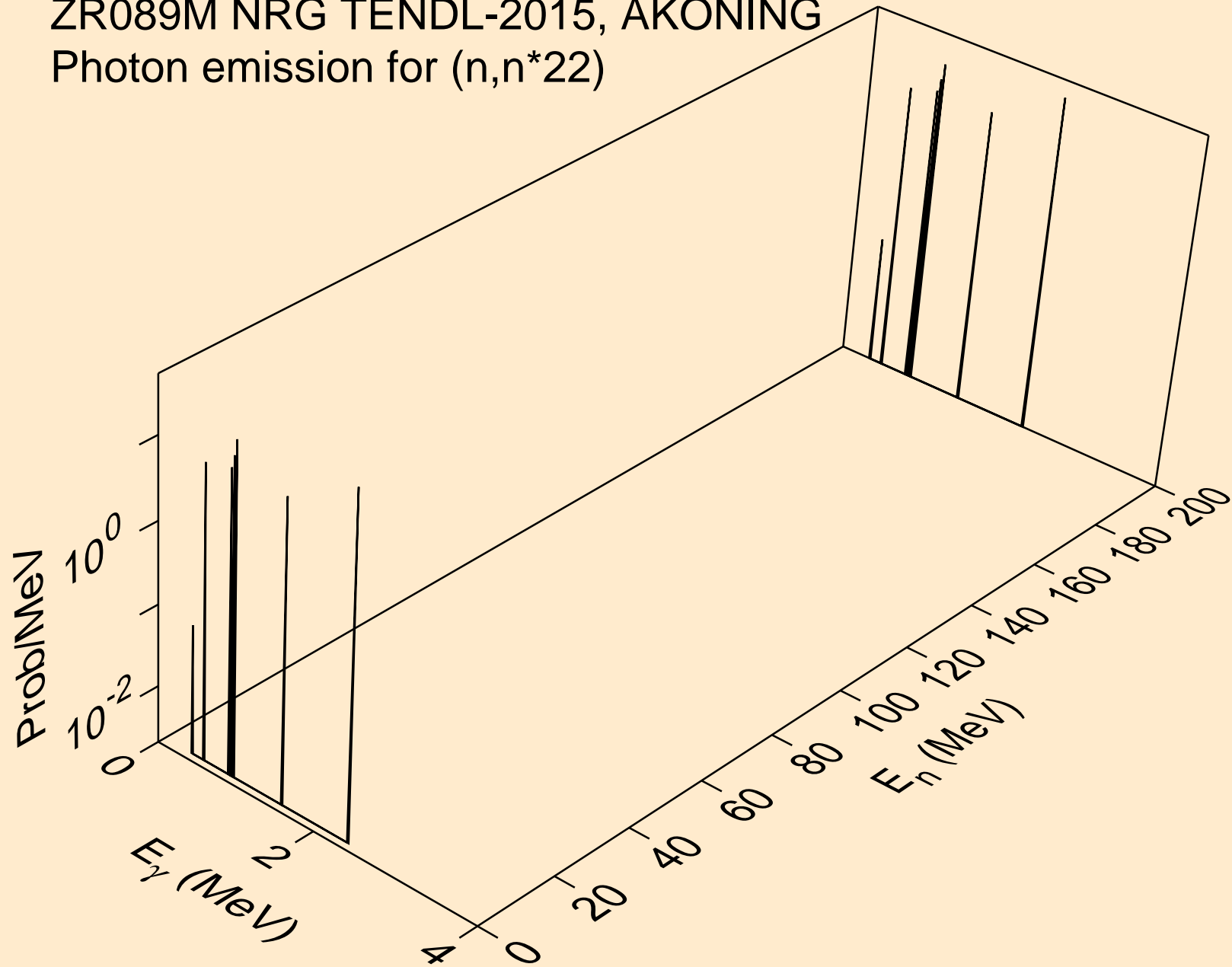
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Photon emission for (n,n\*20)



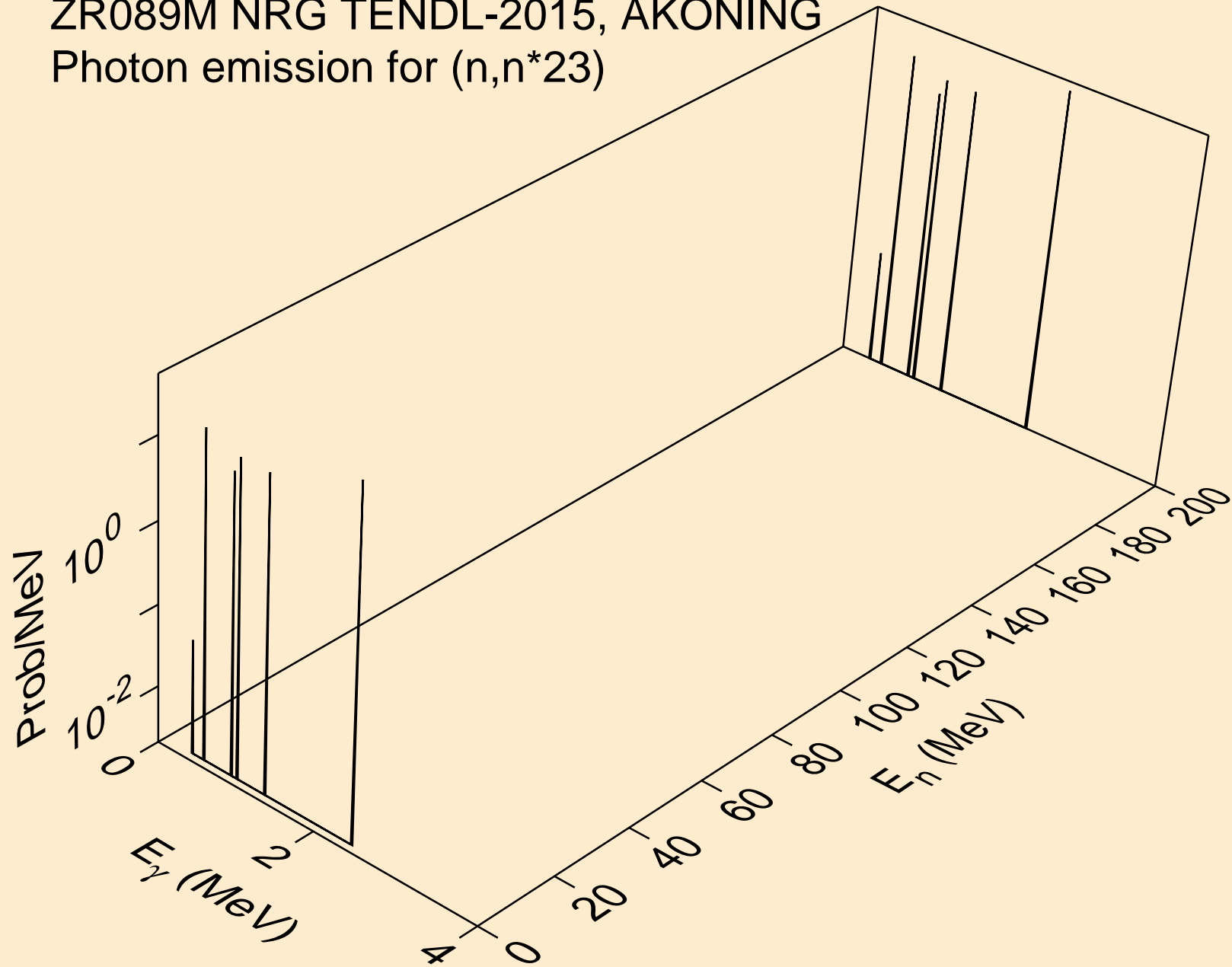
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Photon emission for (n,n\*21)



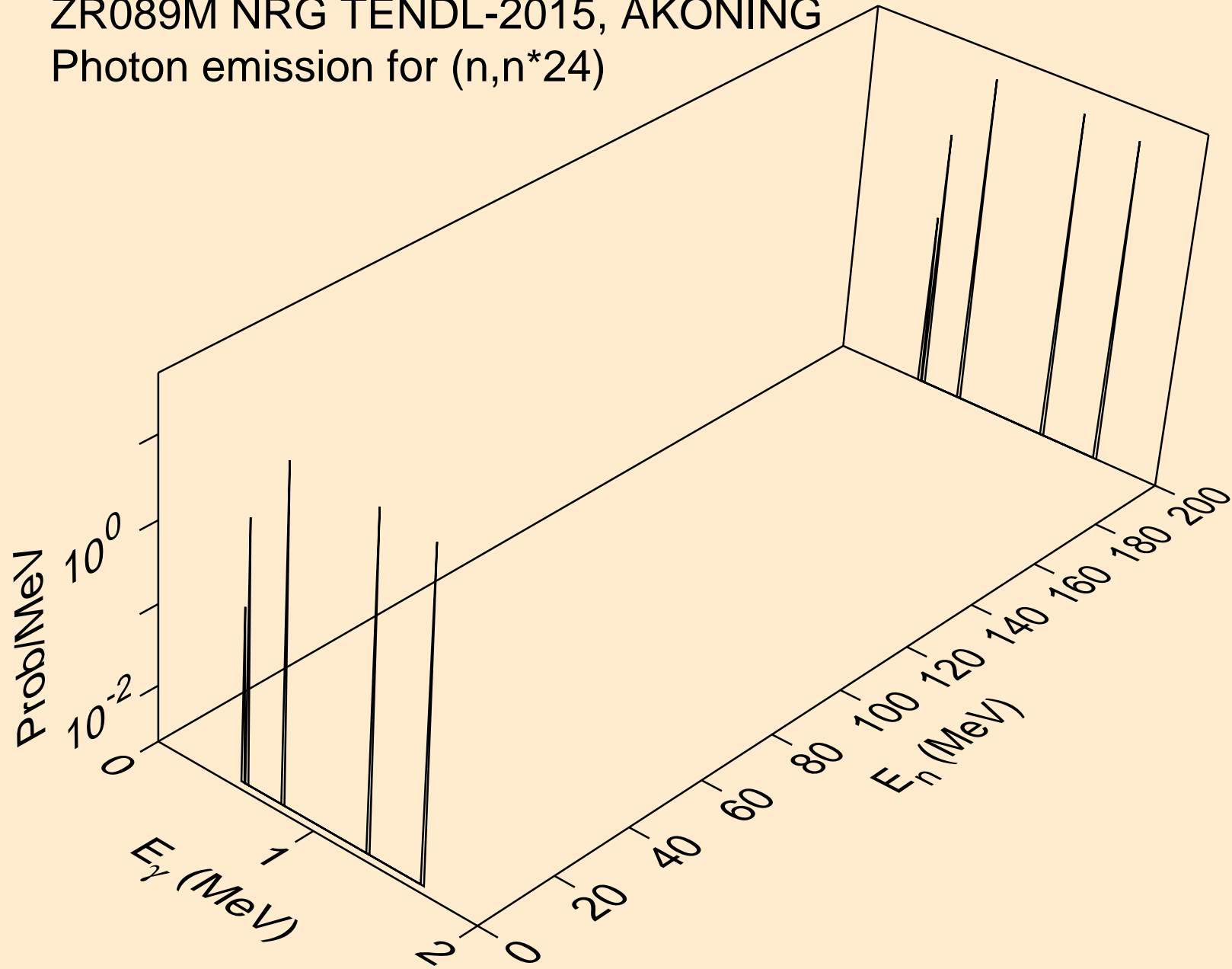
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Photon emission for (n,n\*22)



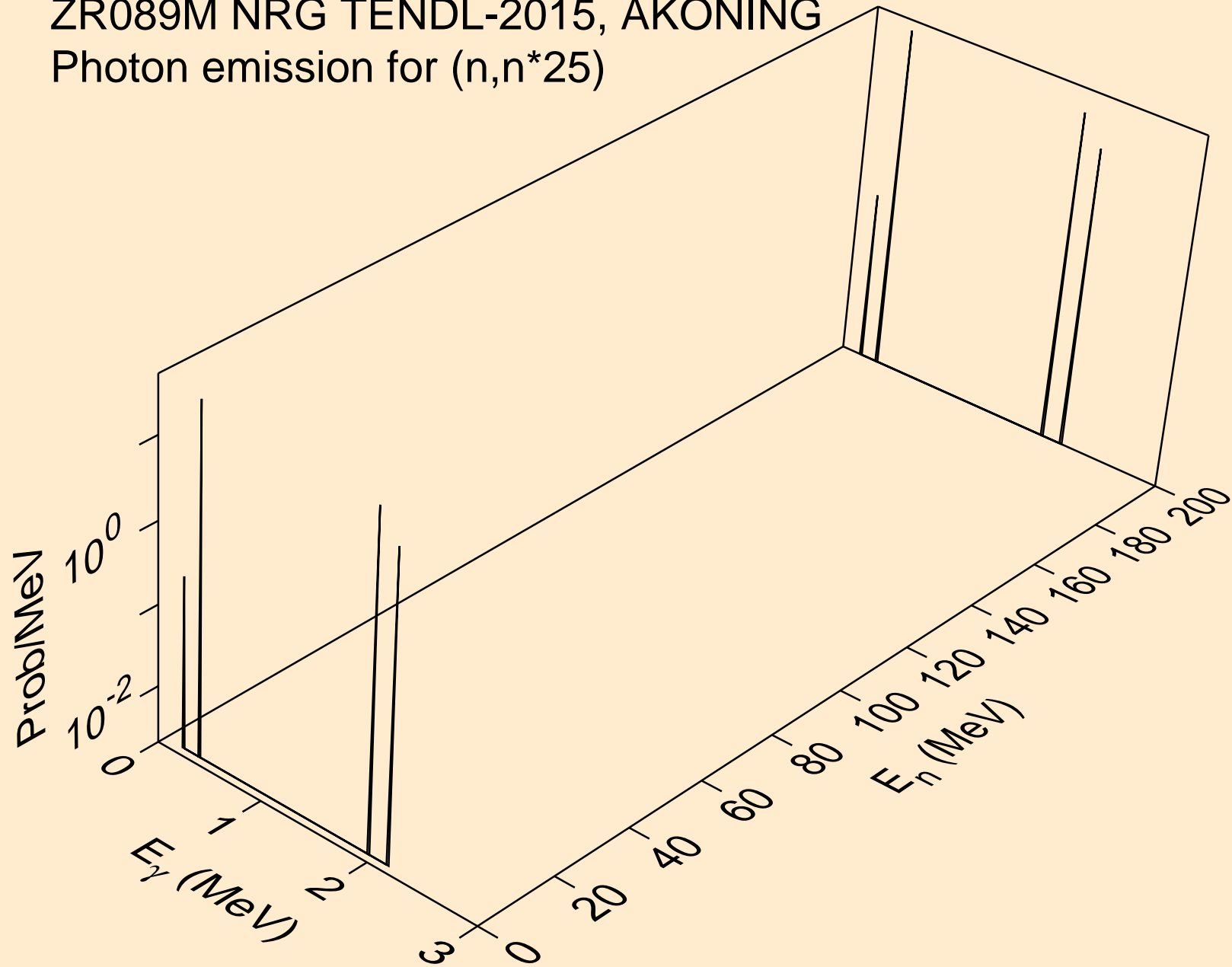
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Photon emission for (n,n\*23)



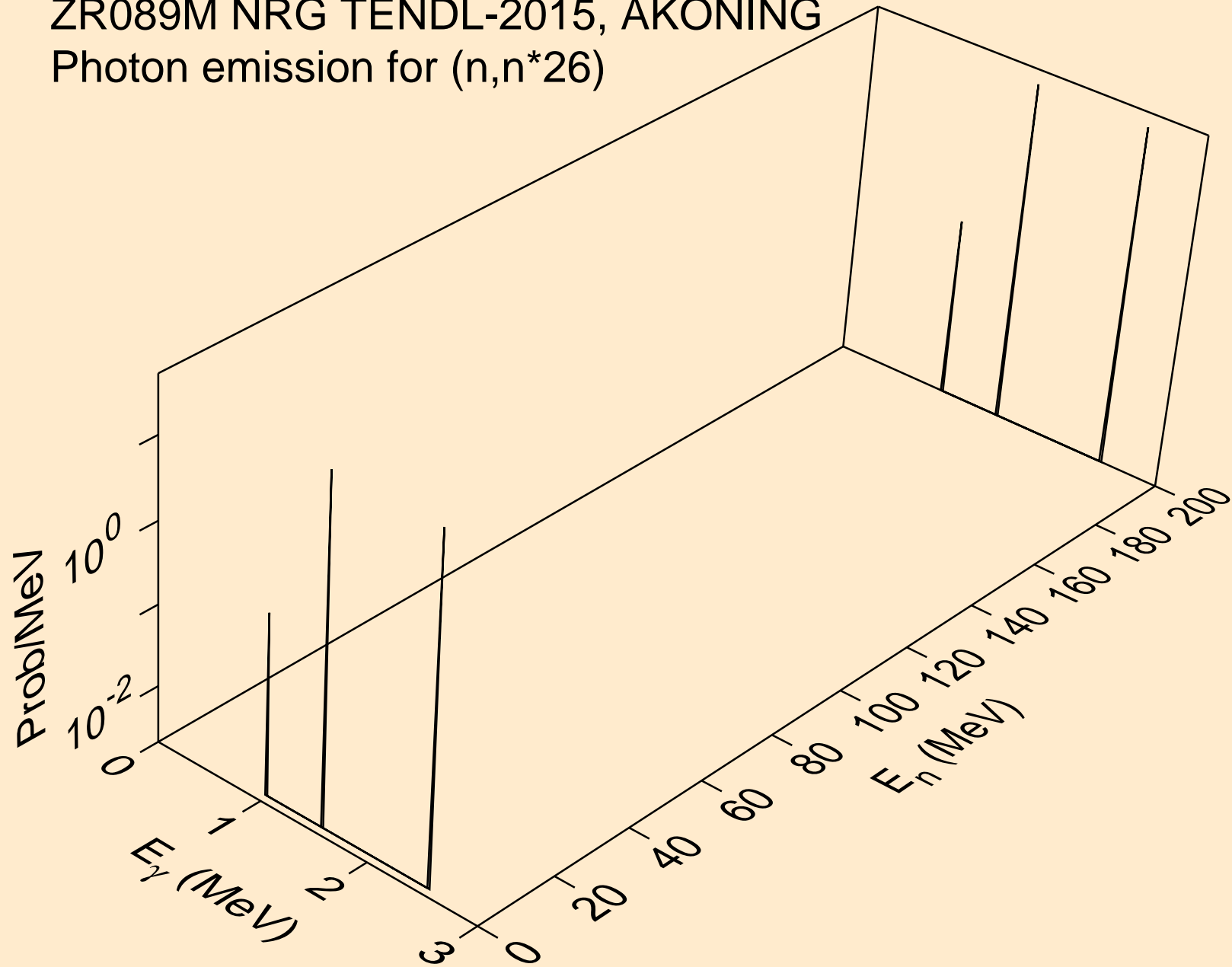
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Photon emission for (n,n\*24)



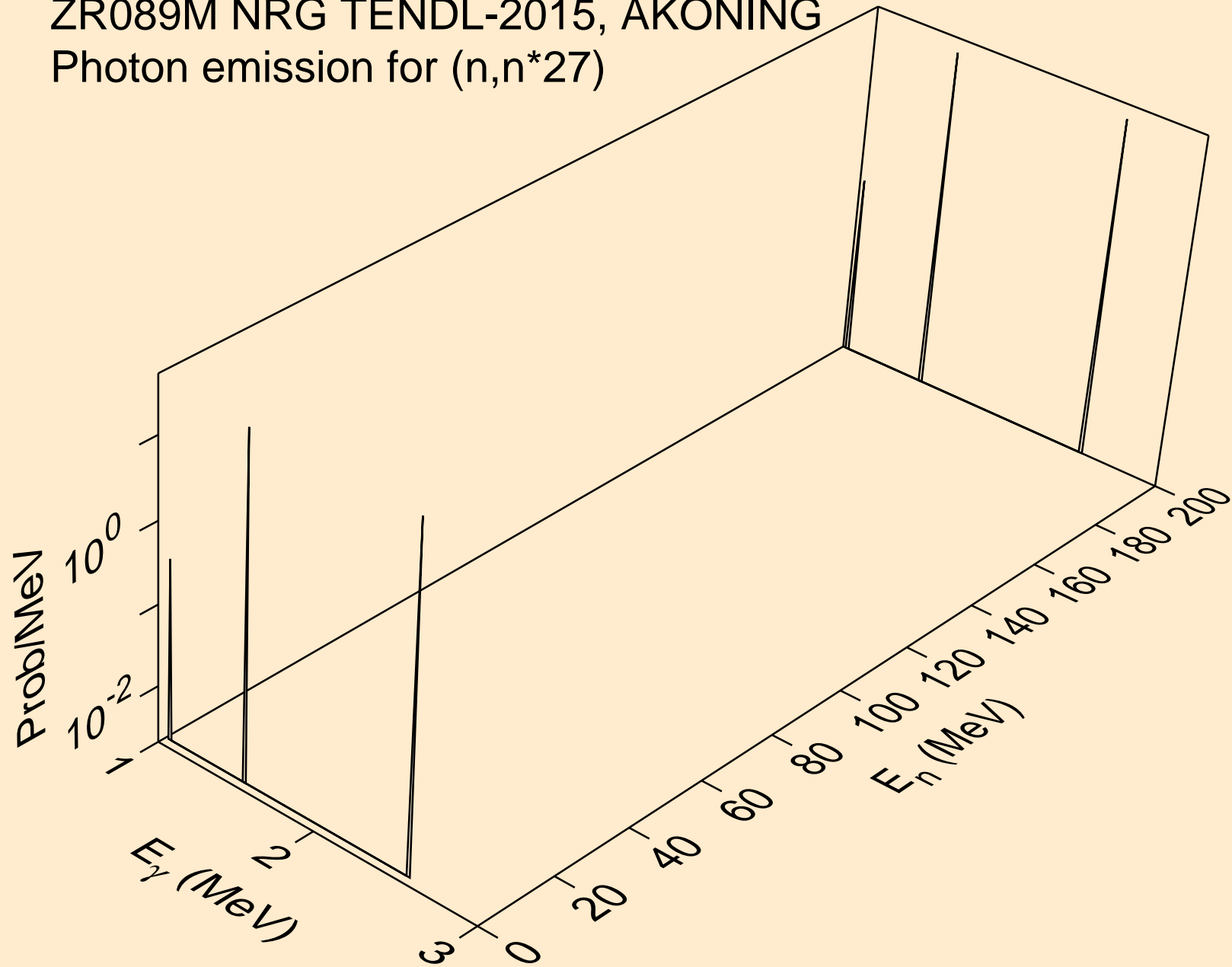
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Photon emission for (n,n\*25)



ZR089M NRG TENDL-2015, AKONING  
Photon emission for (n,n\*26)

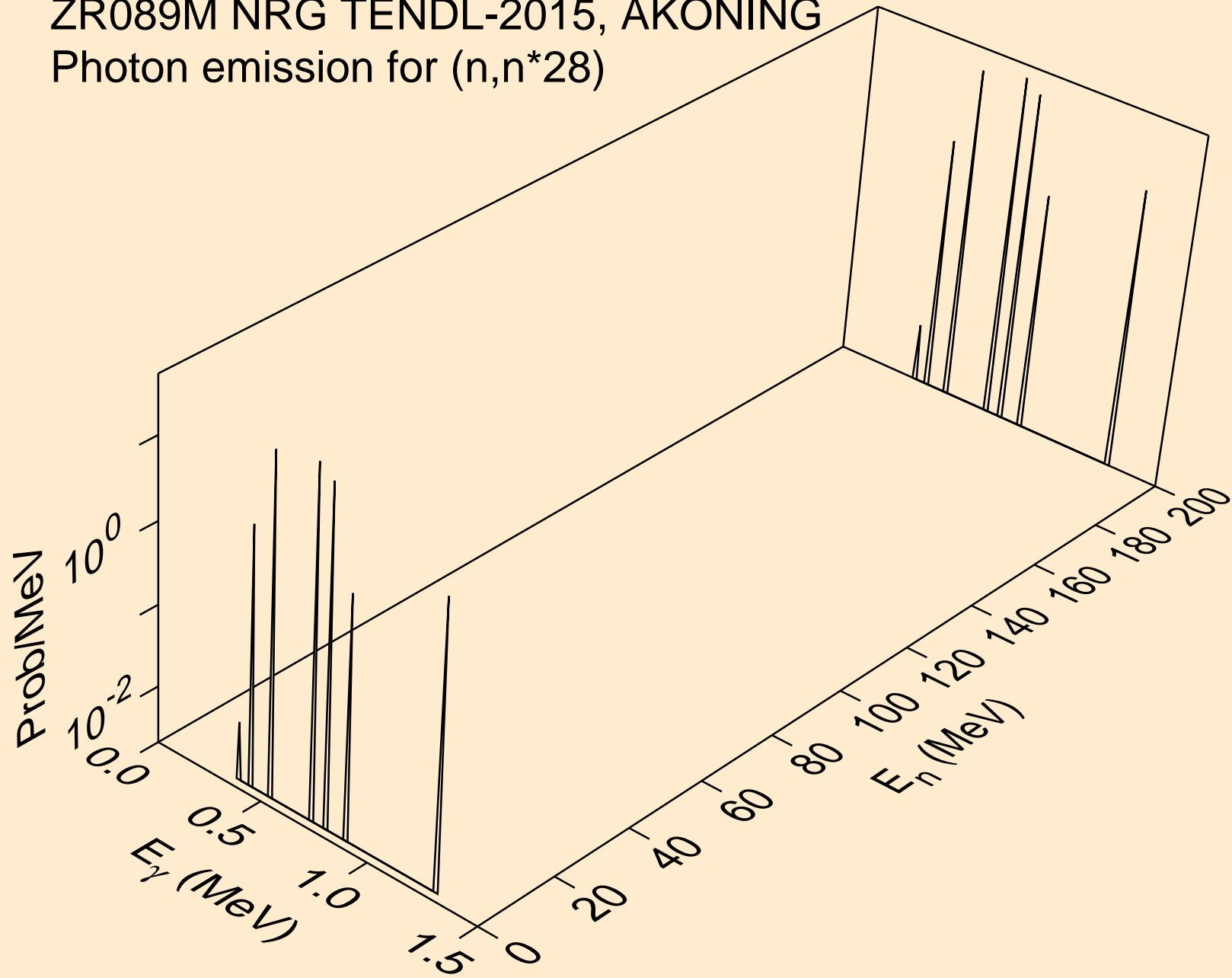


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Photon emission for (n,n\*27)

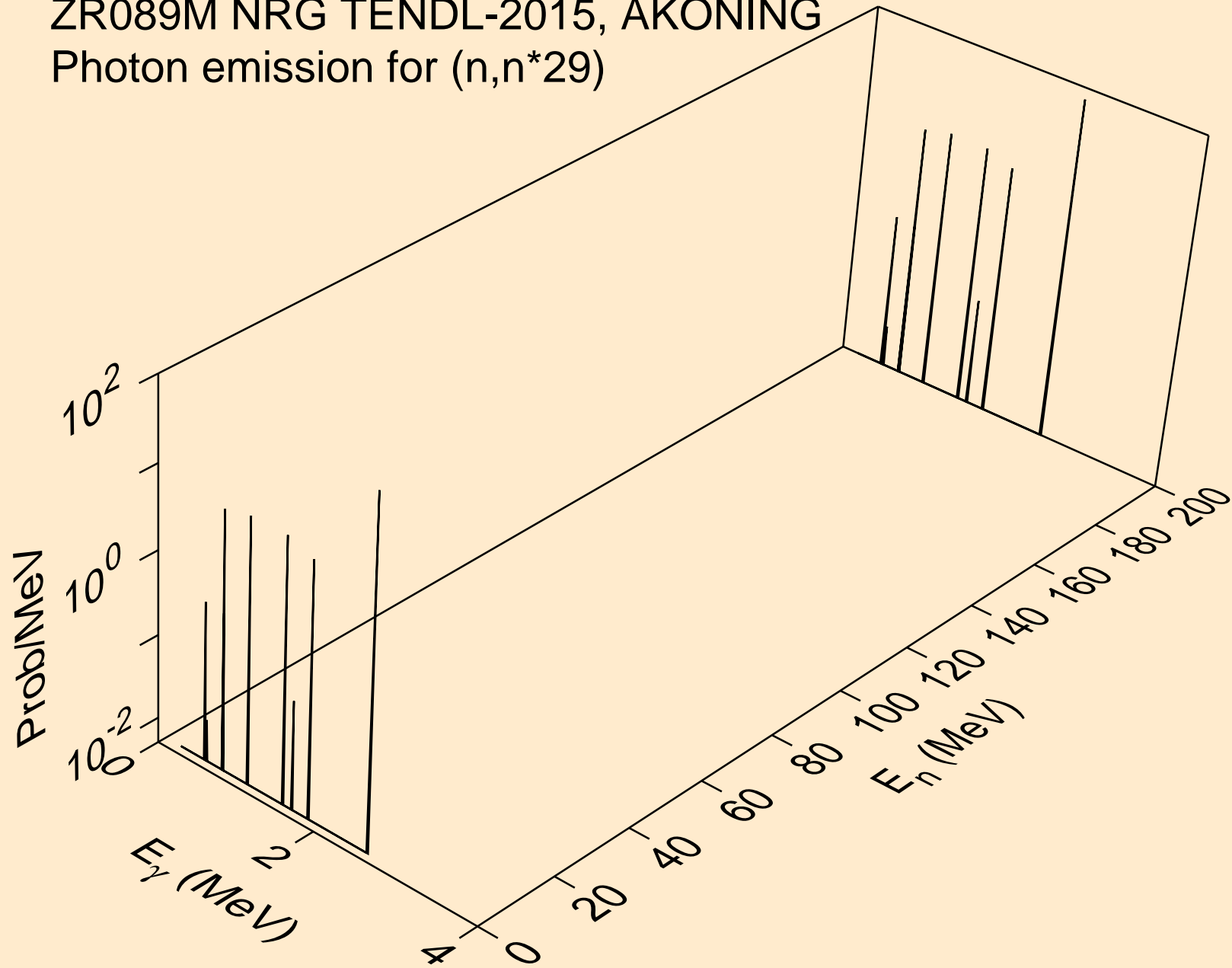




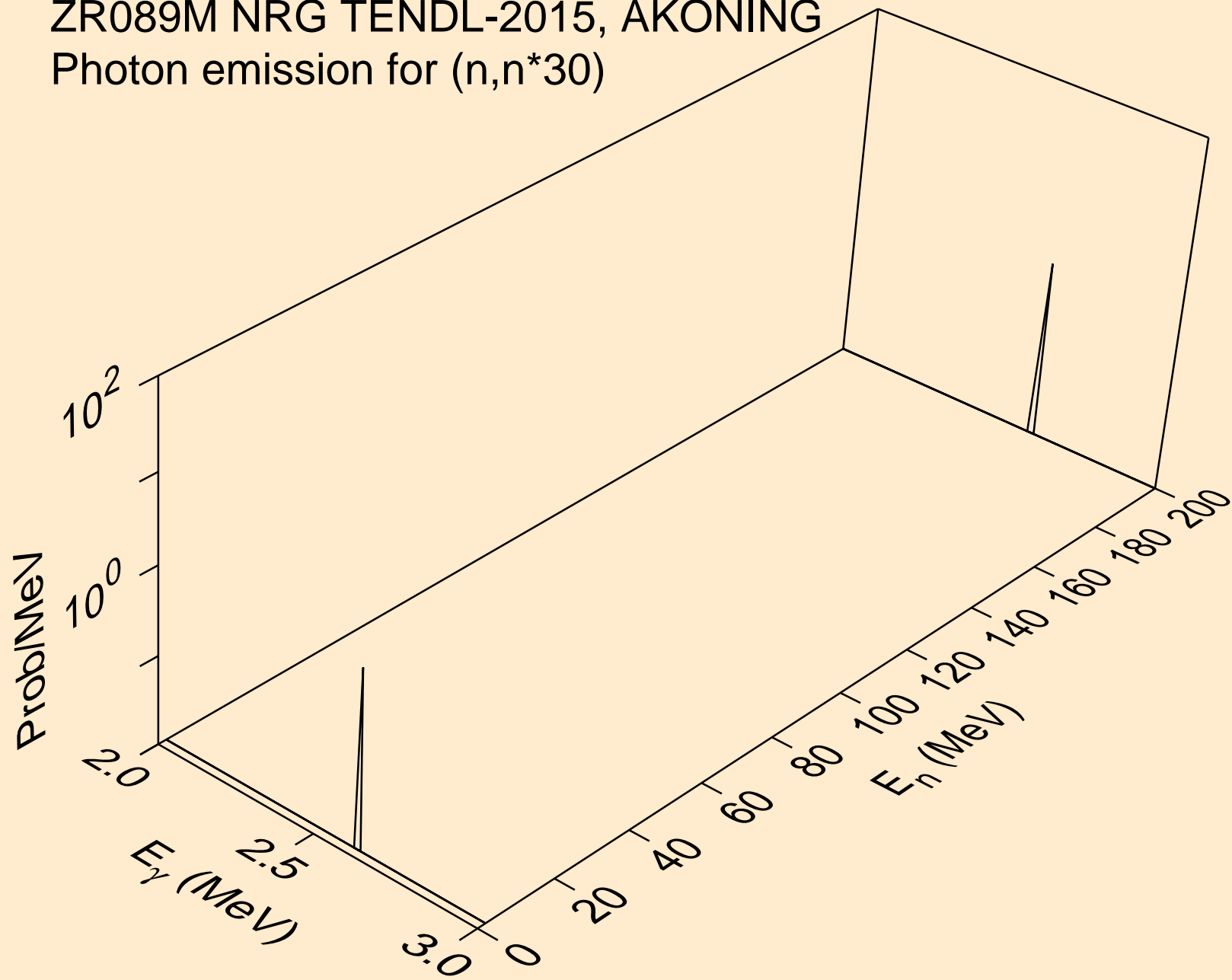
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Photon emission for (n,n\*28)



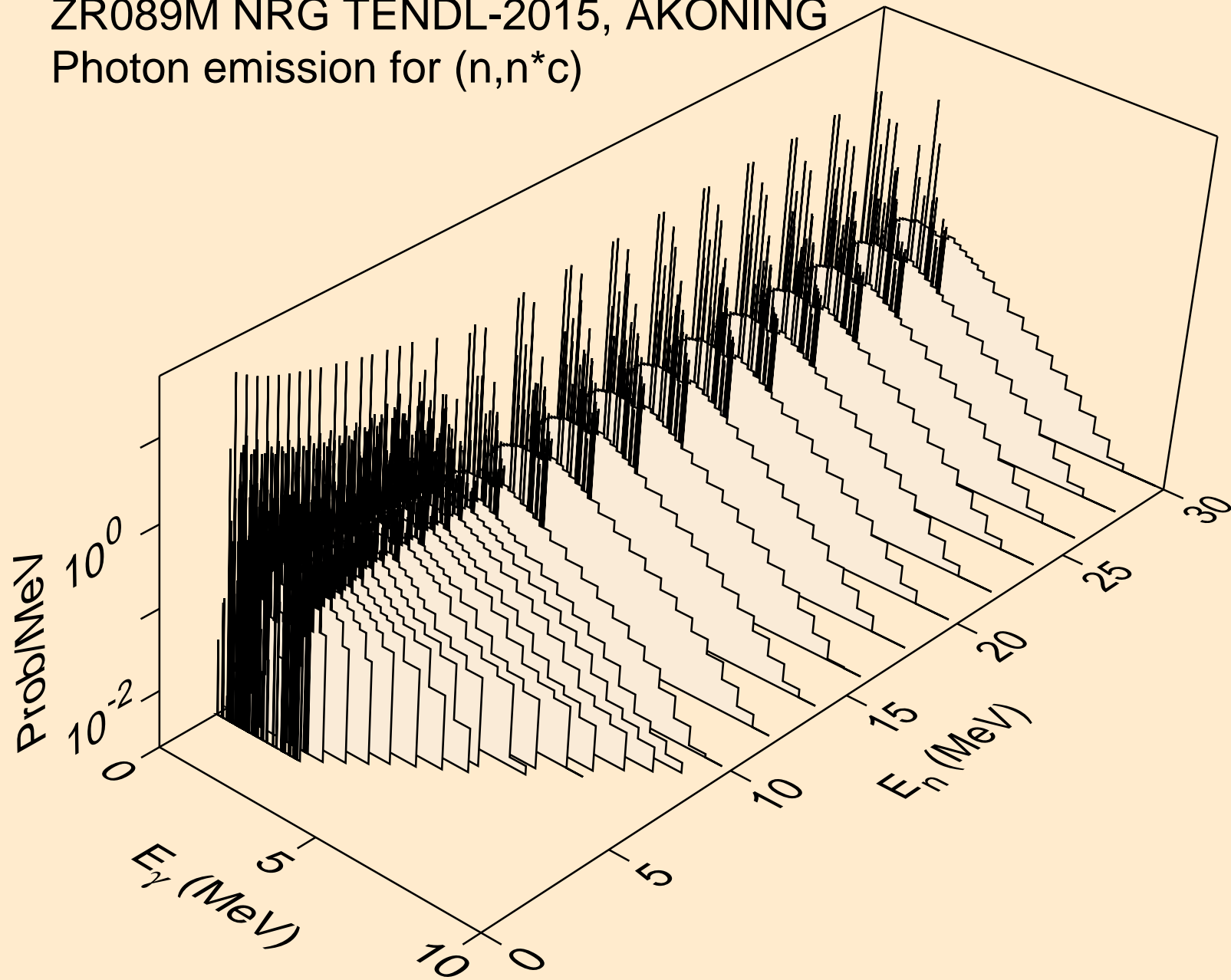
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Photon emission for (n,n\*29)



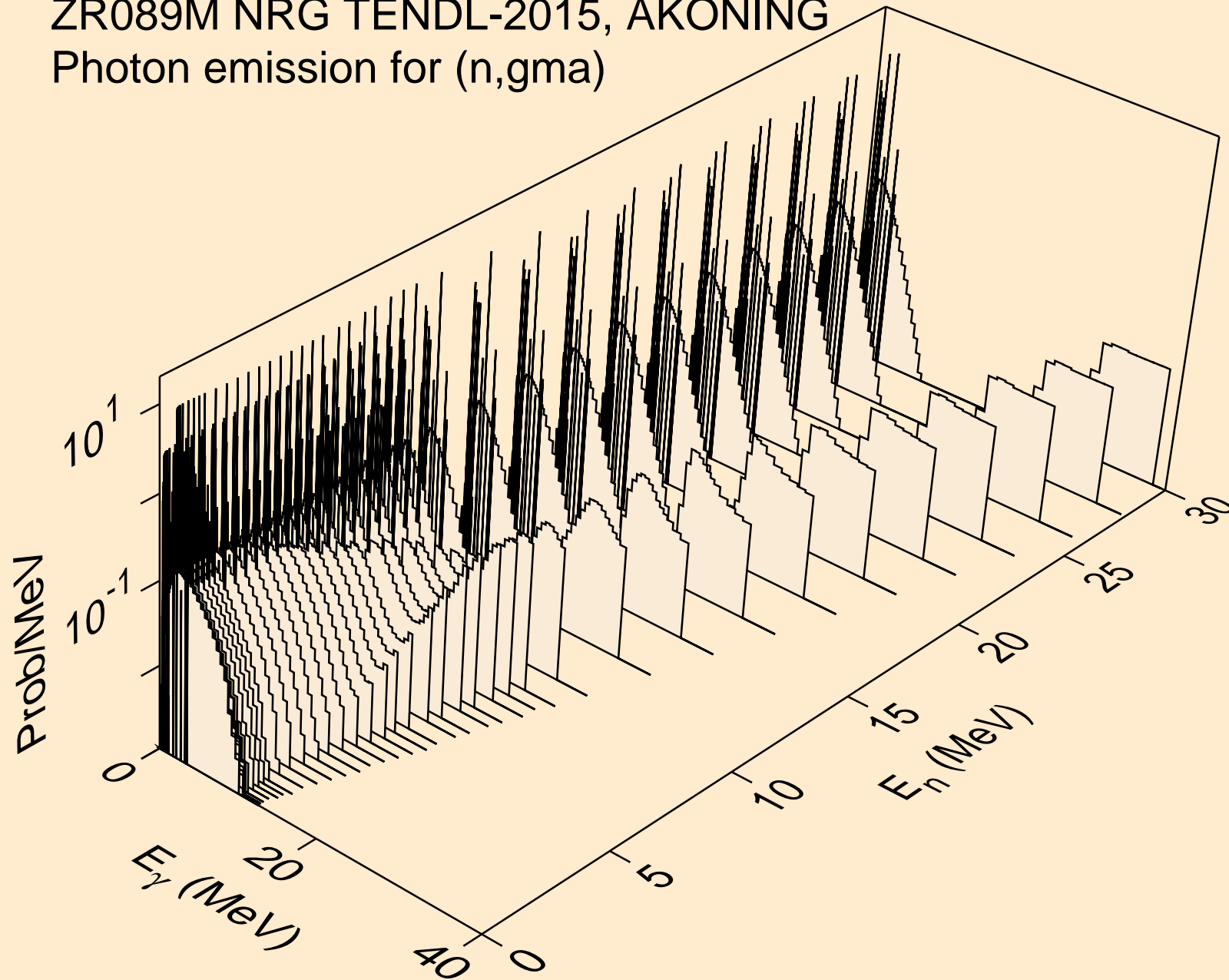
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Photon emission for (n,n\*30)



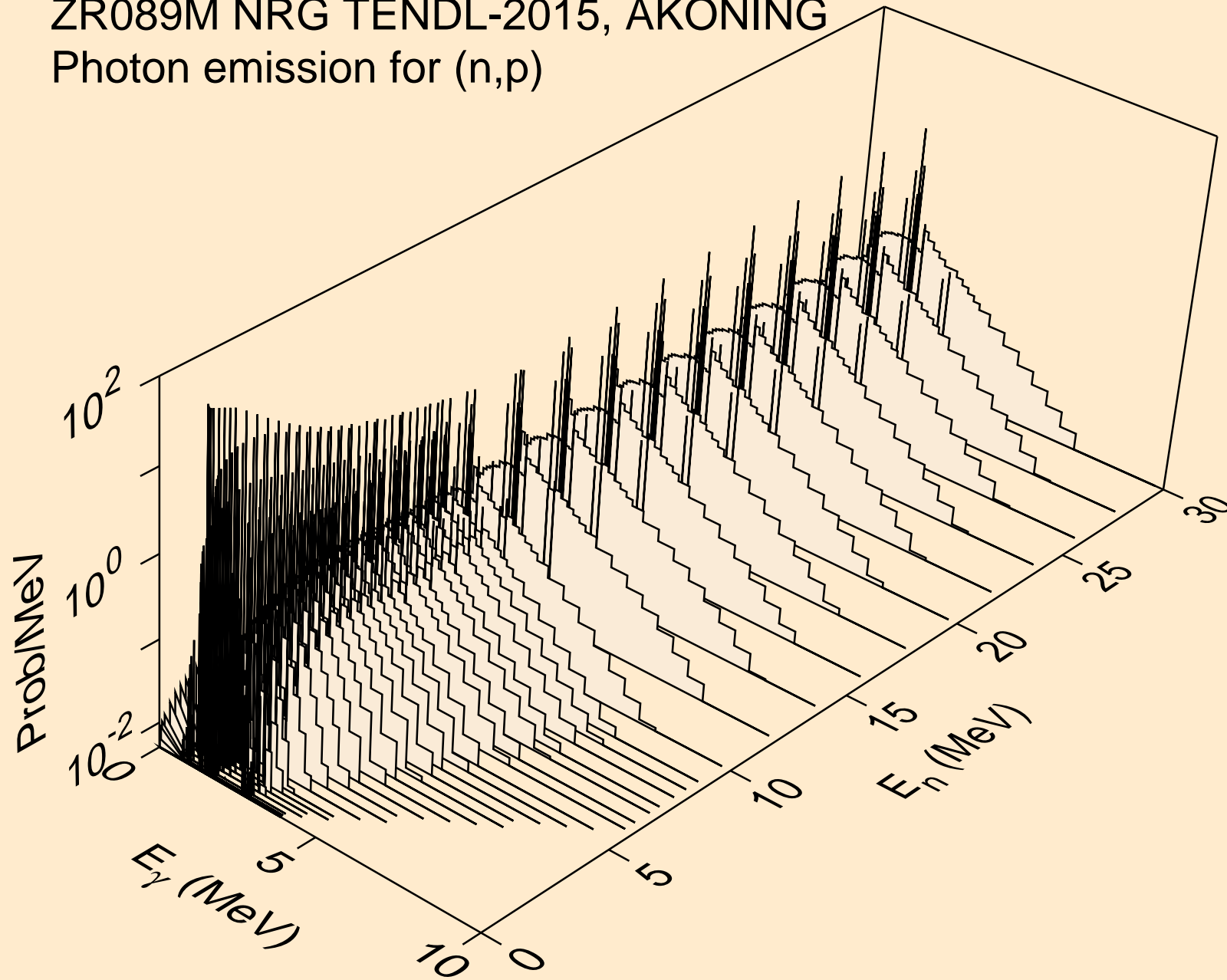
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Photon emission for (n,n\*c)



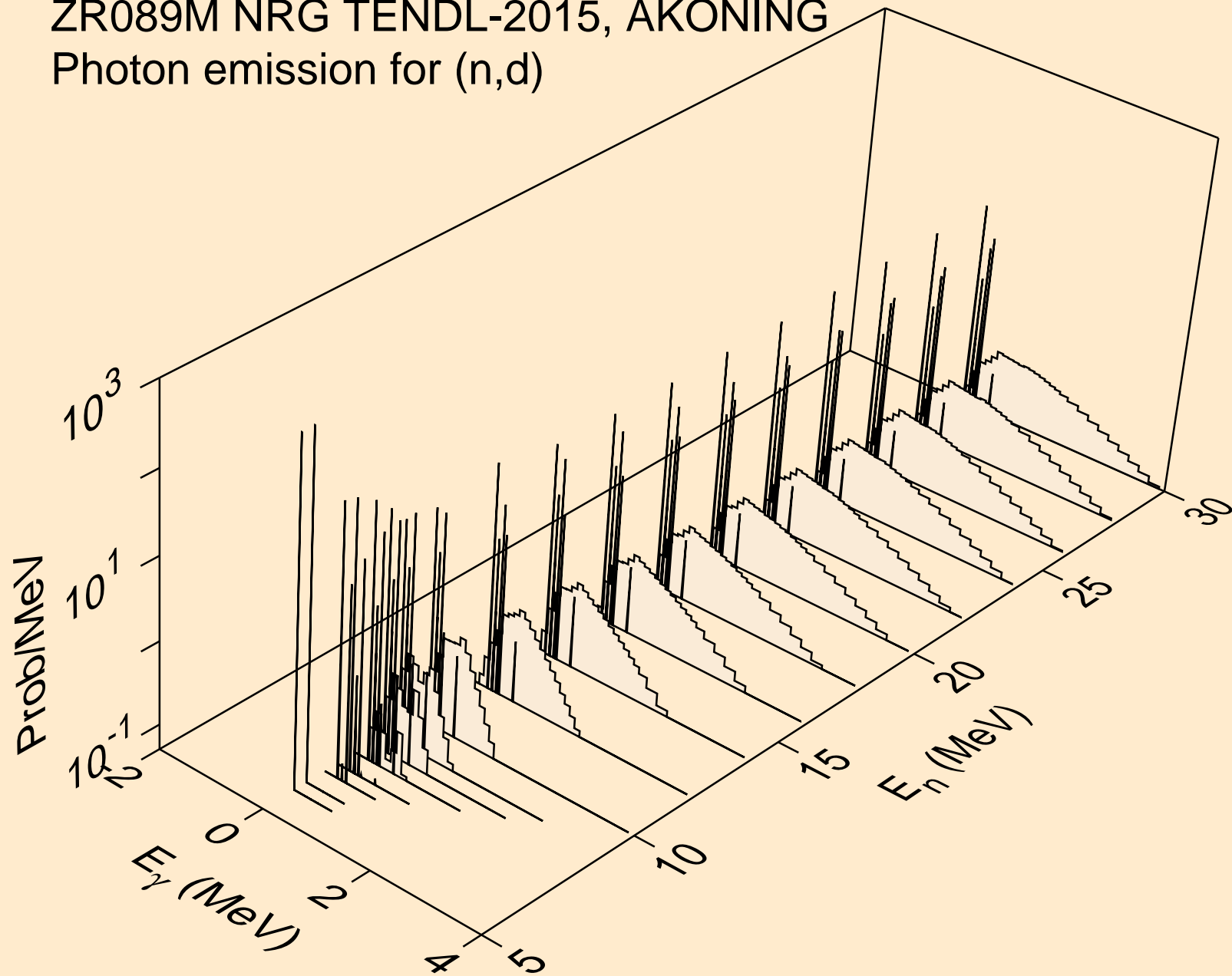
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Photon emission for (n,gma)



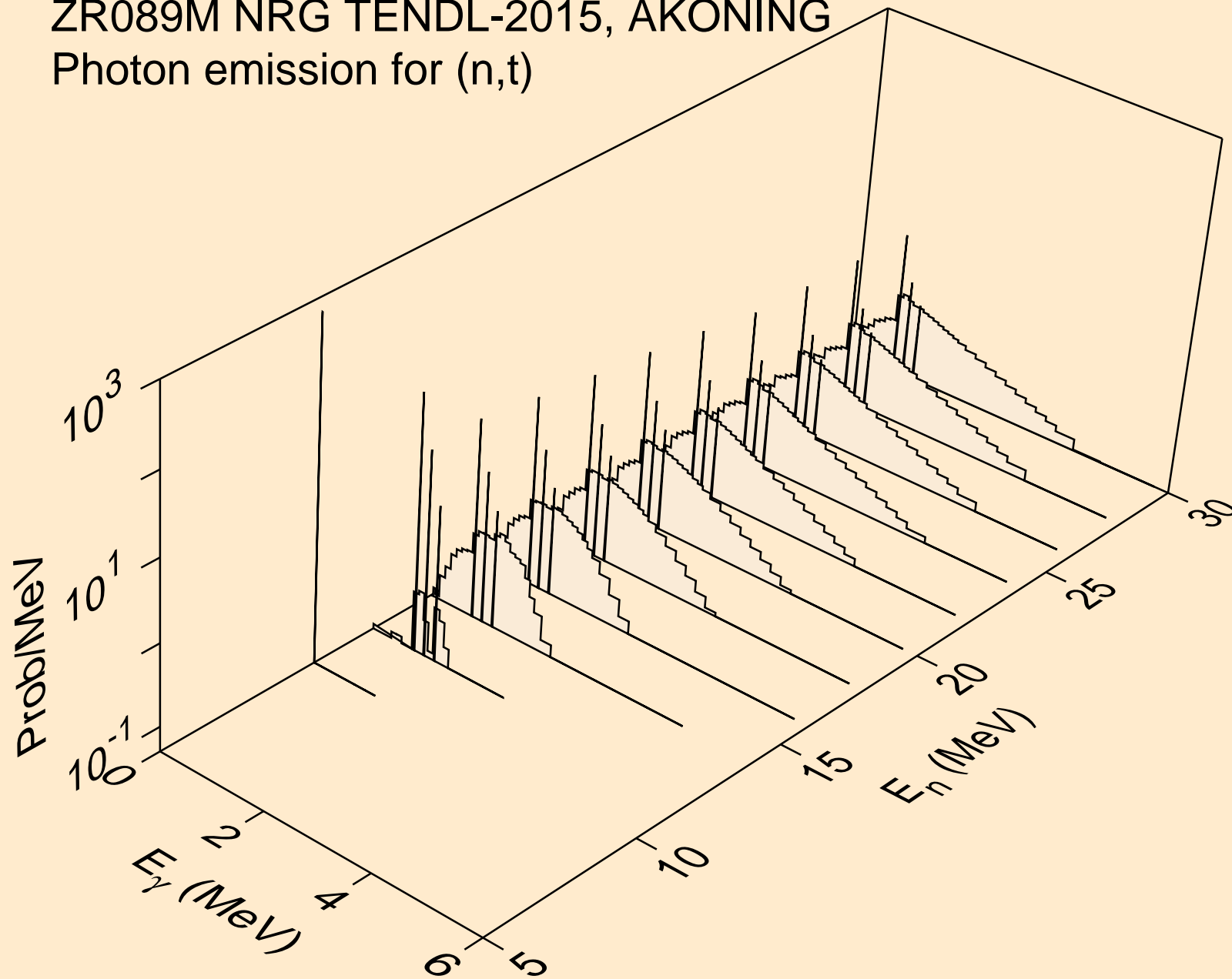
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Photon emission for (n,p)



ZR089M NRG TENDL-2015, AKONING  
Photon emission for (n,d)

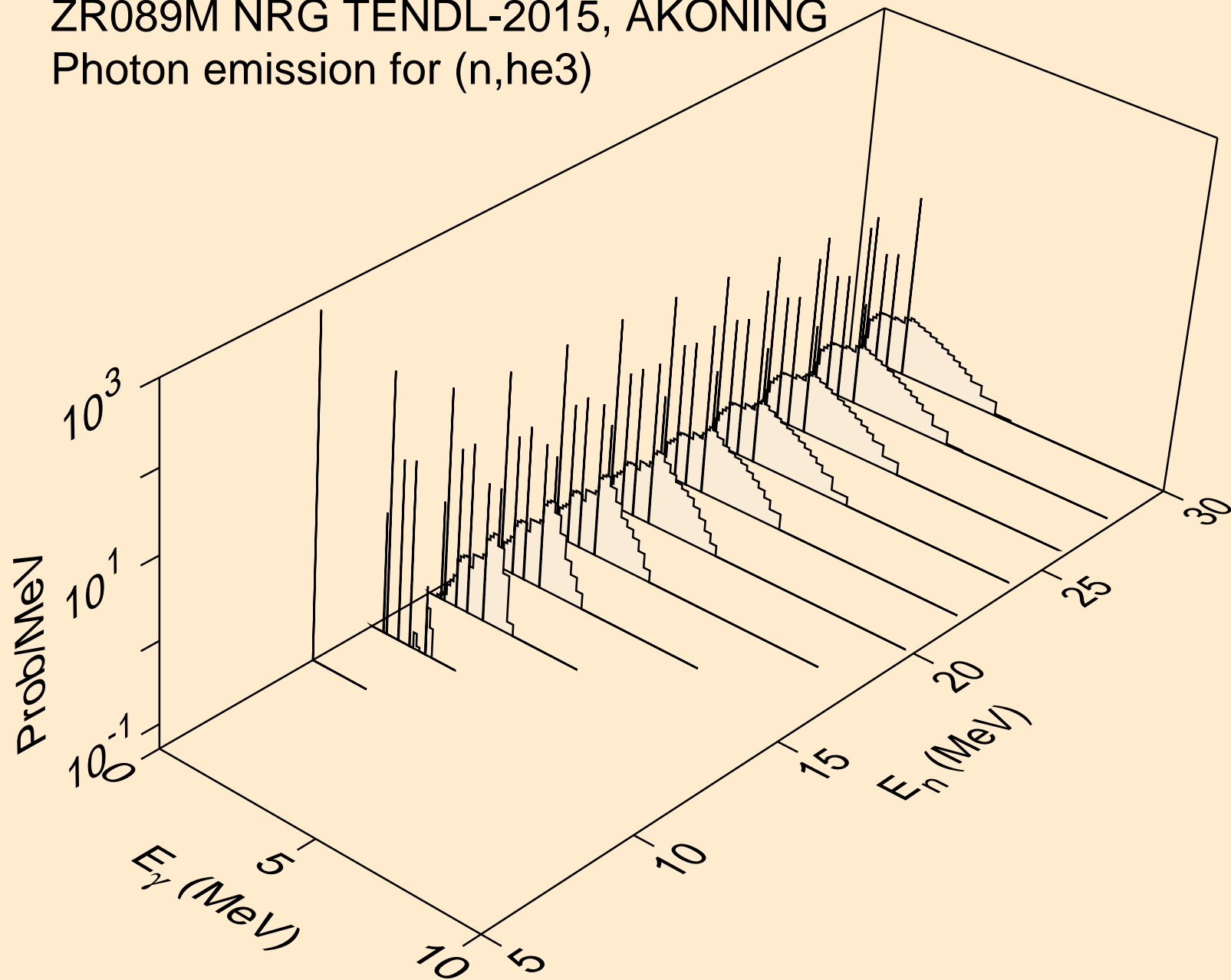


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Photon emission for (n,t)

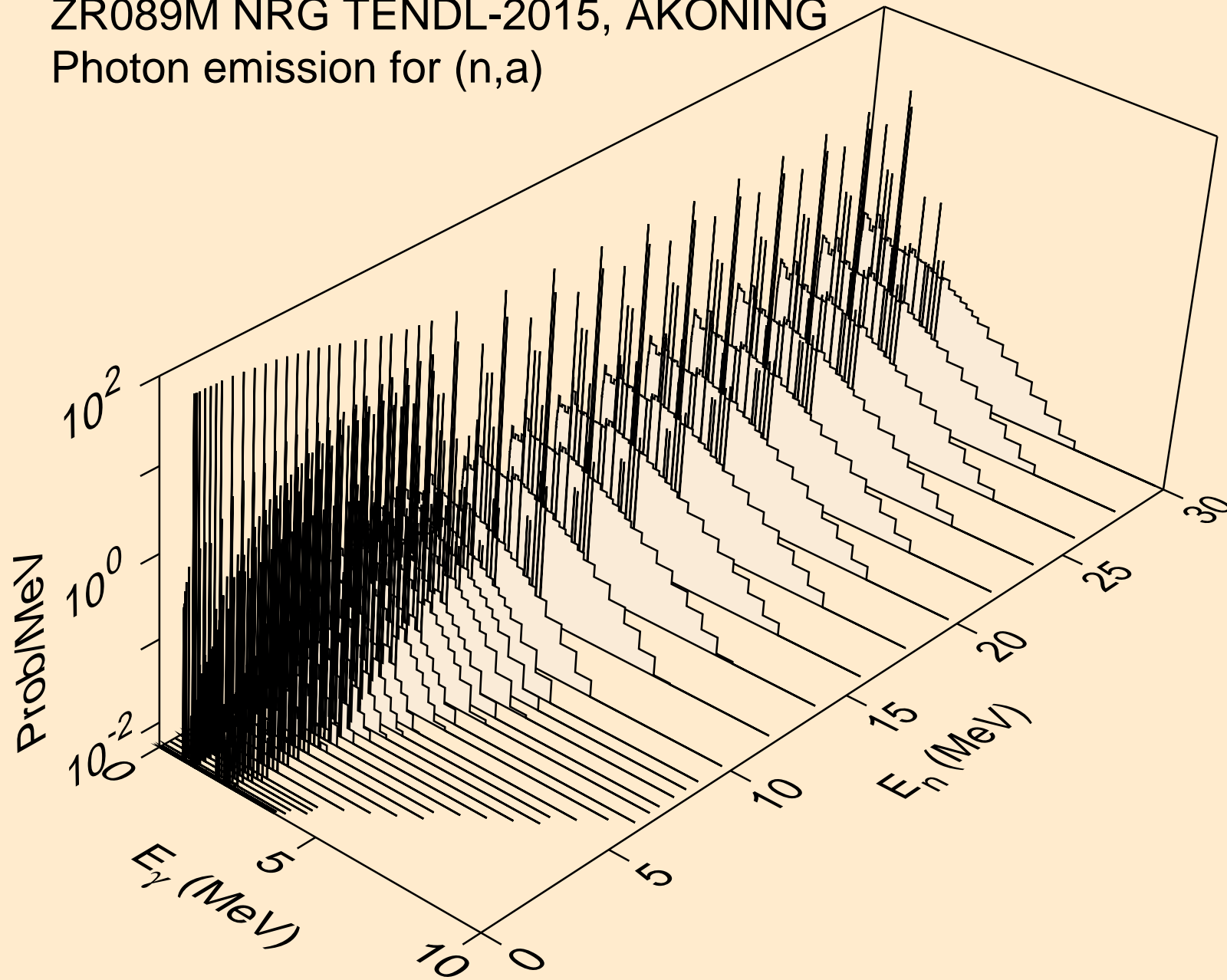




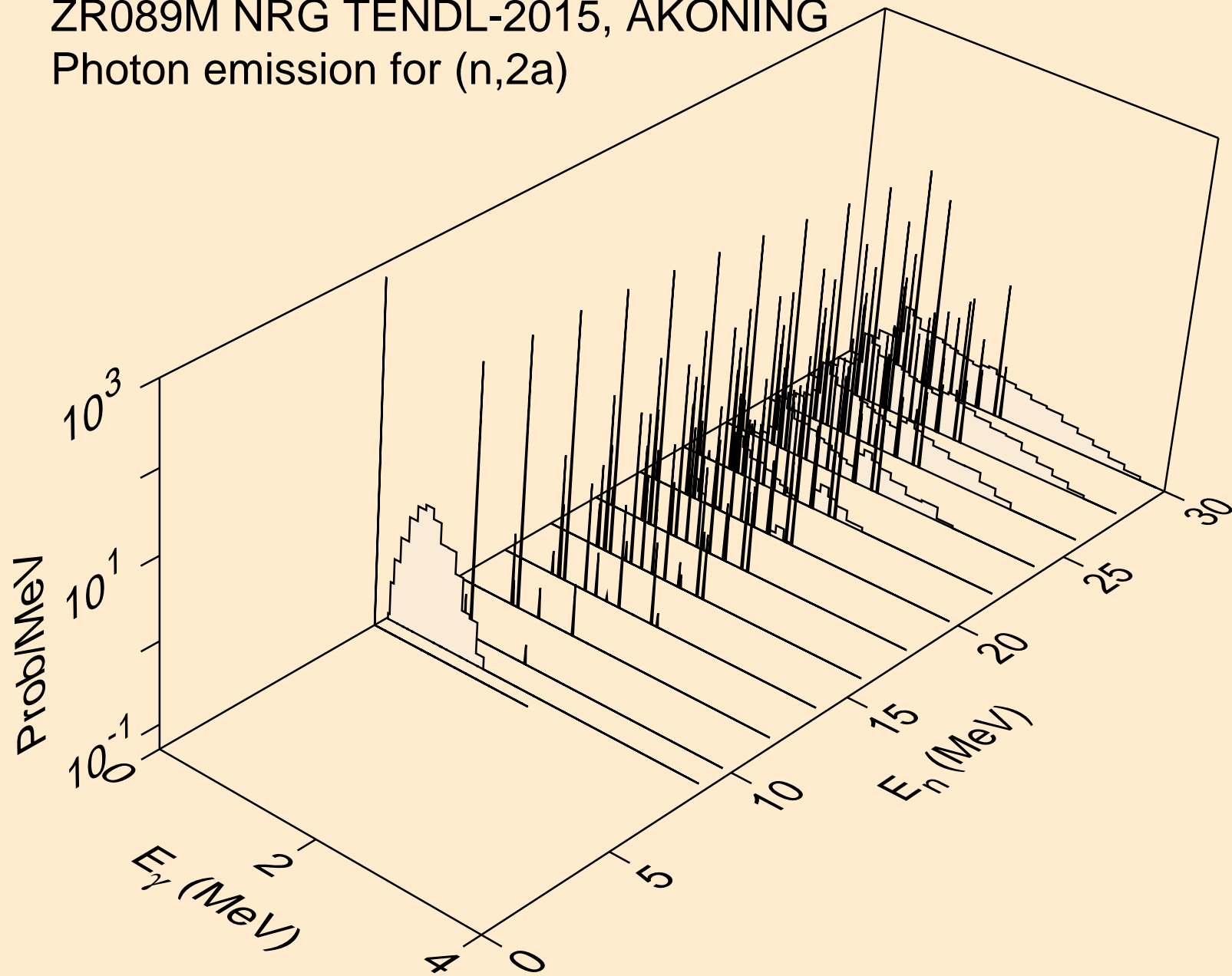
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Photon emission for (n,he3)



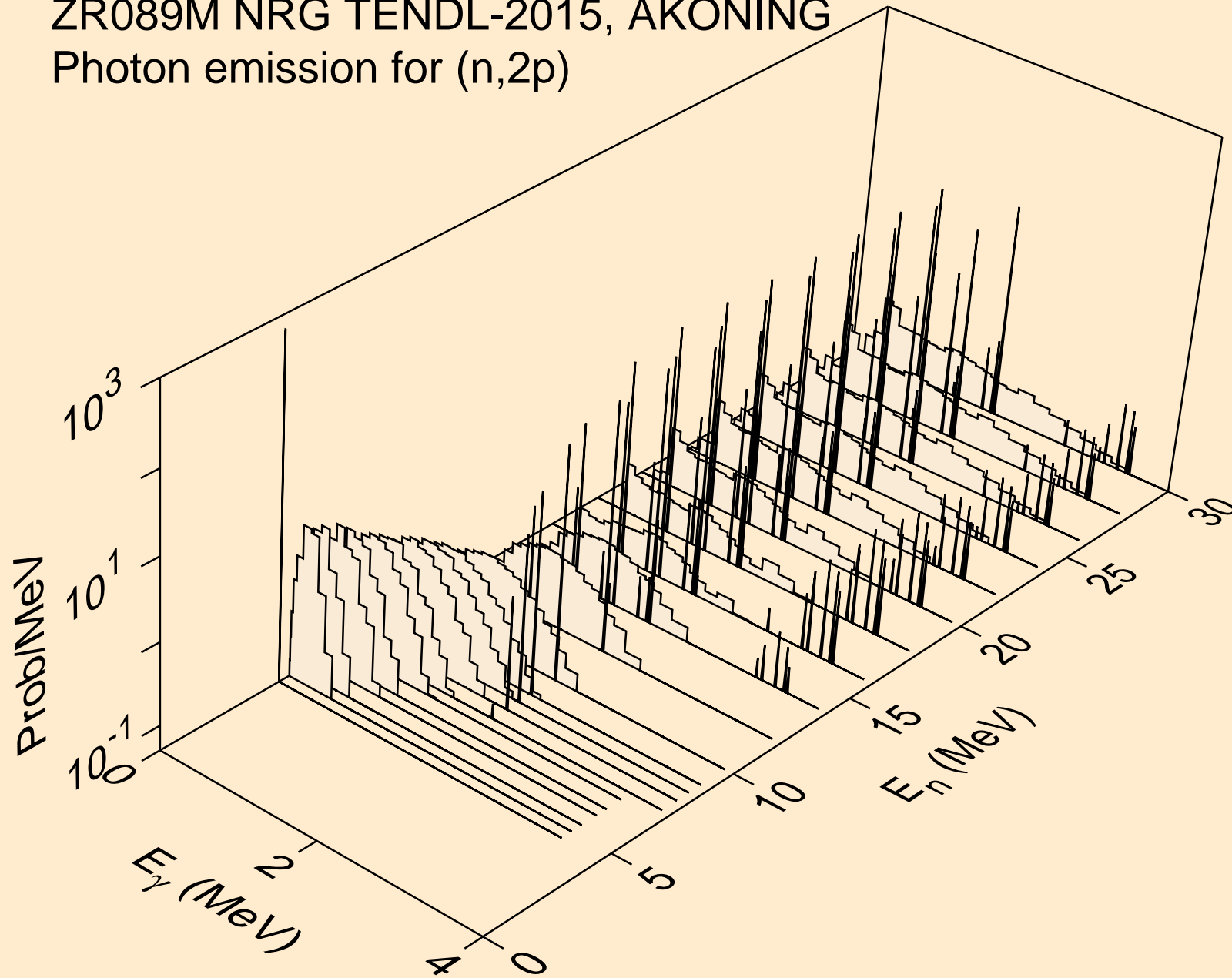
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Photon emission for (n,a)



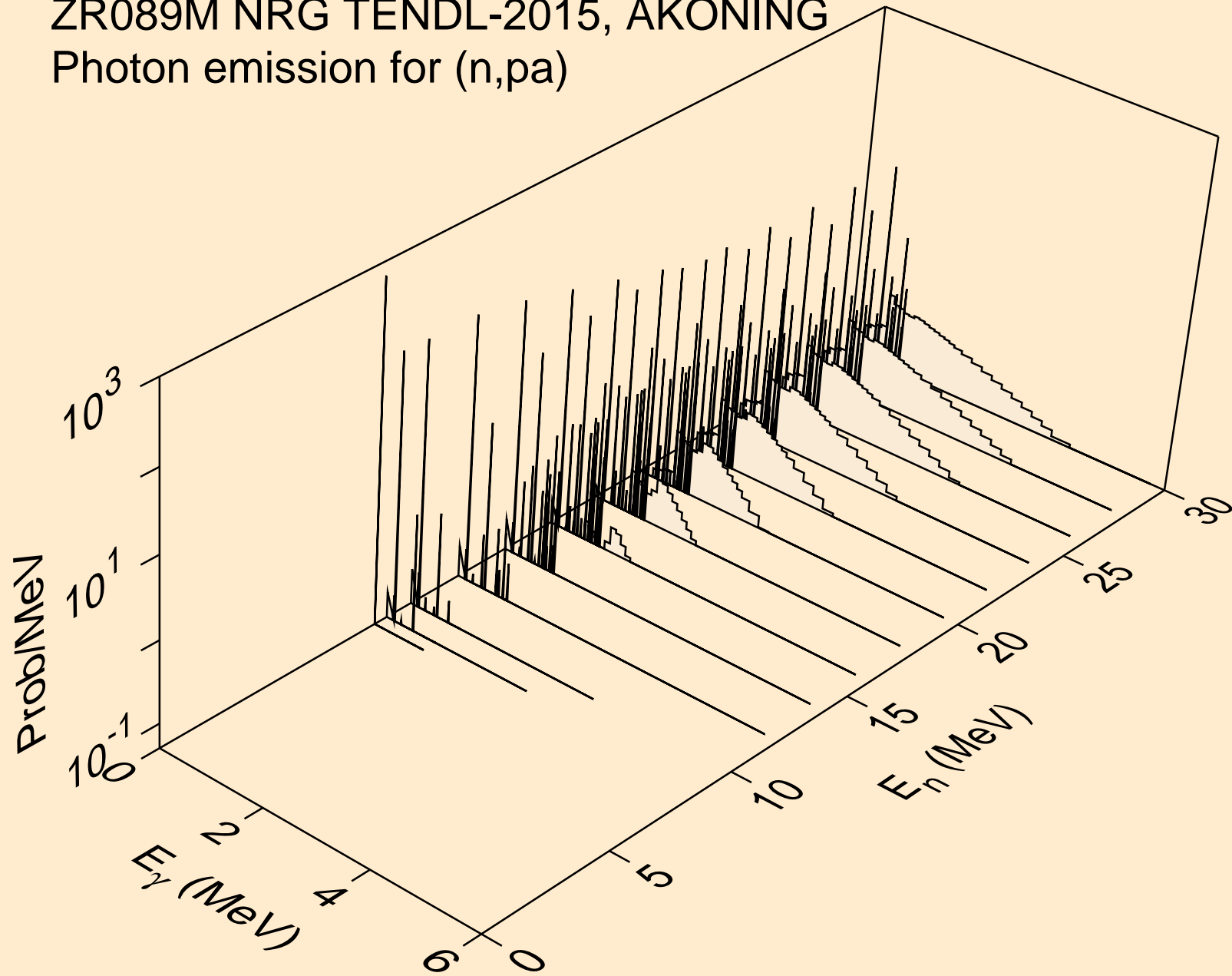
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Photon emission for (n,2a)



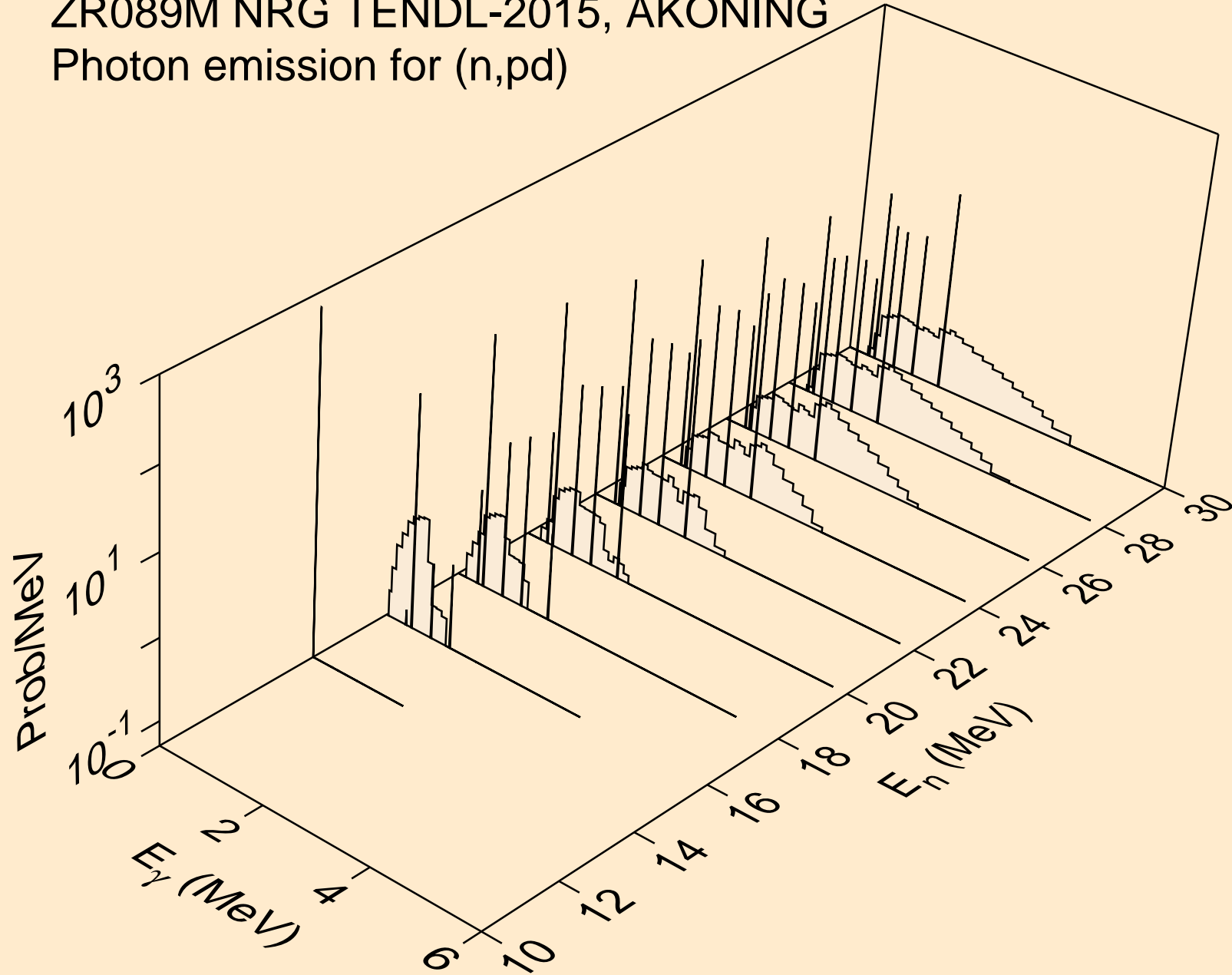
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Photon emission for (n,2p)



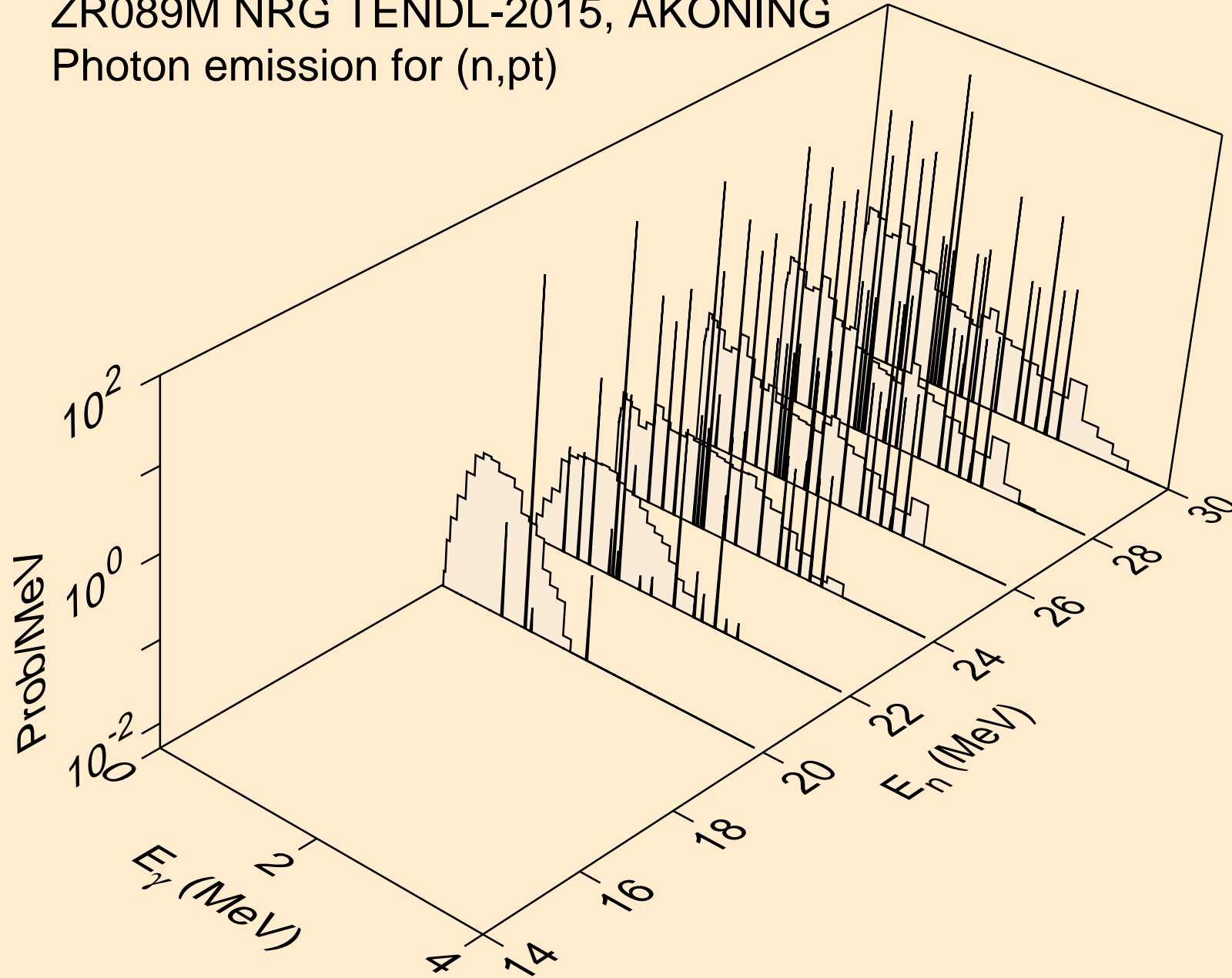
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Photon emission for (n,p $\alpha$ )



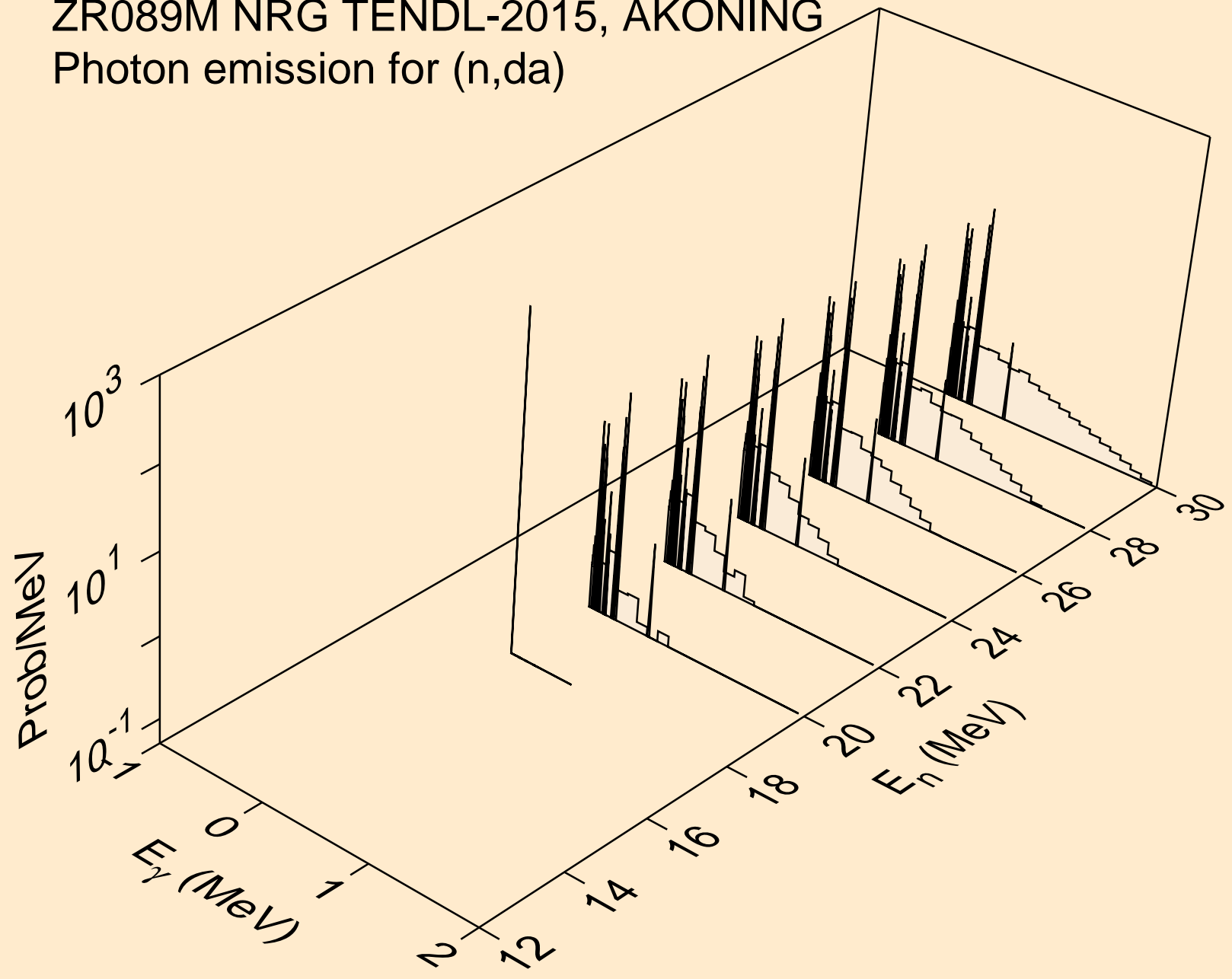
ZR089M NRG TENDL-2015, AKONING  
Photon emission for (n,pd)



ZR089M NRG TENDL-2015, AKONING  
Photon emission for (n,pt)

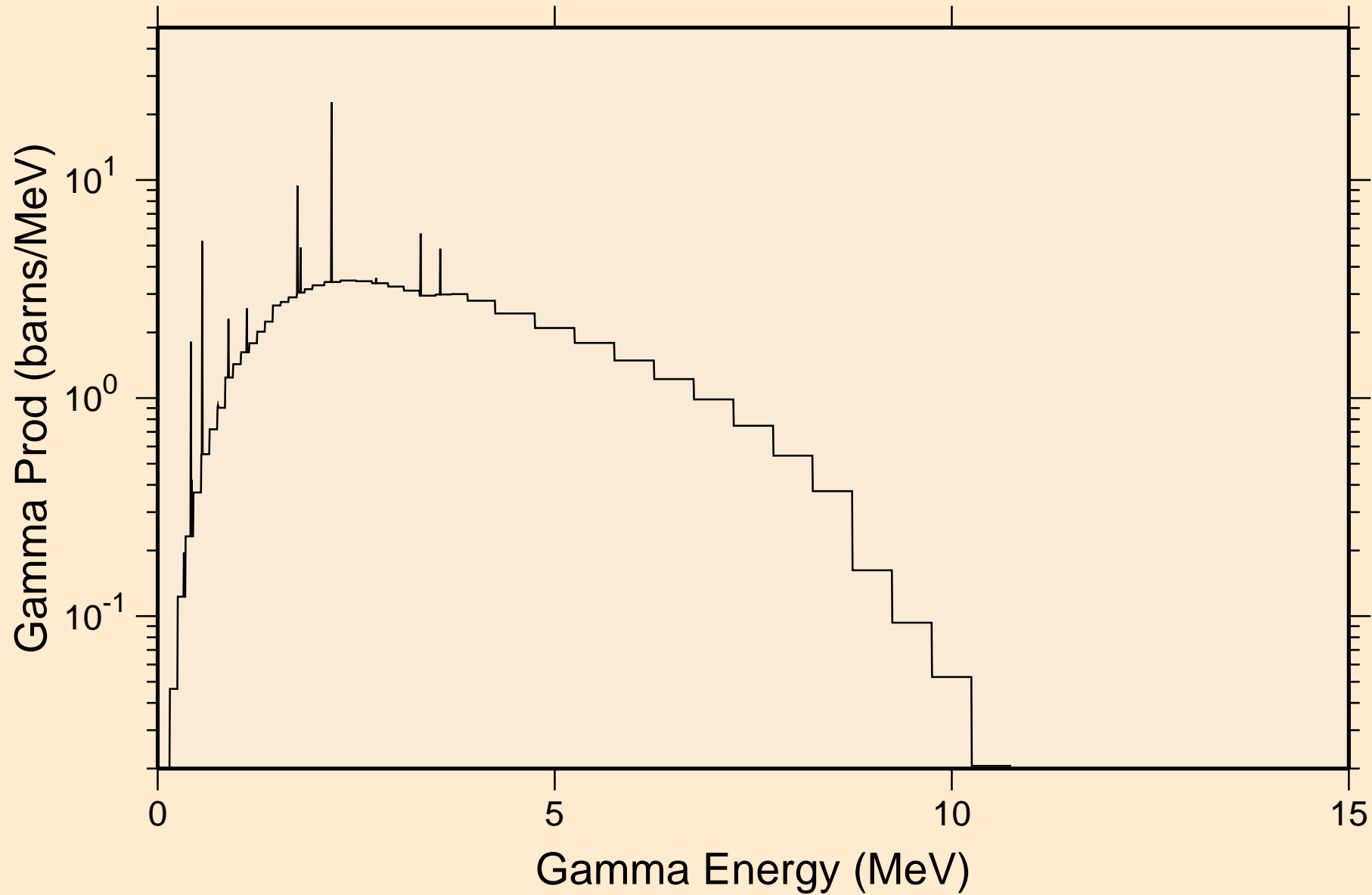


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Photon emission for (n,da)

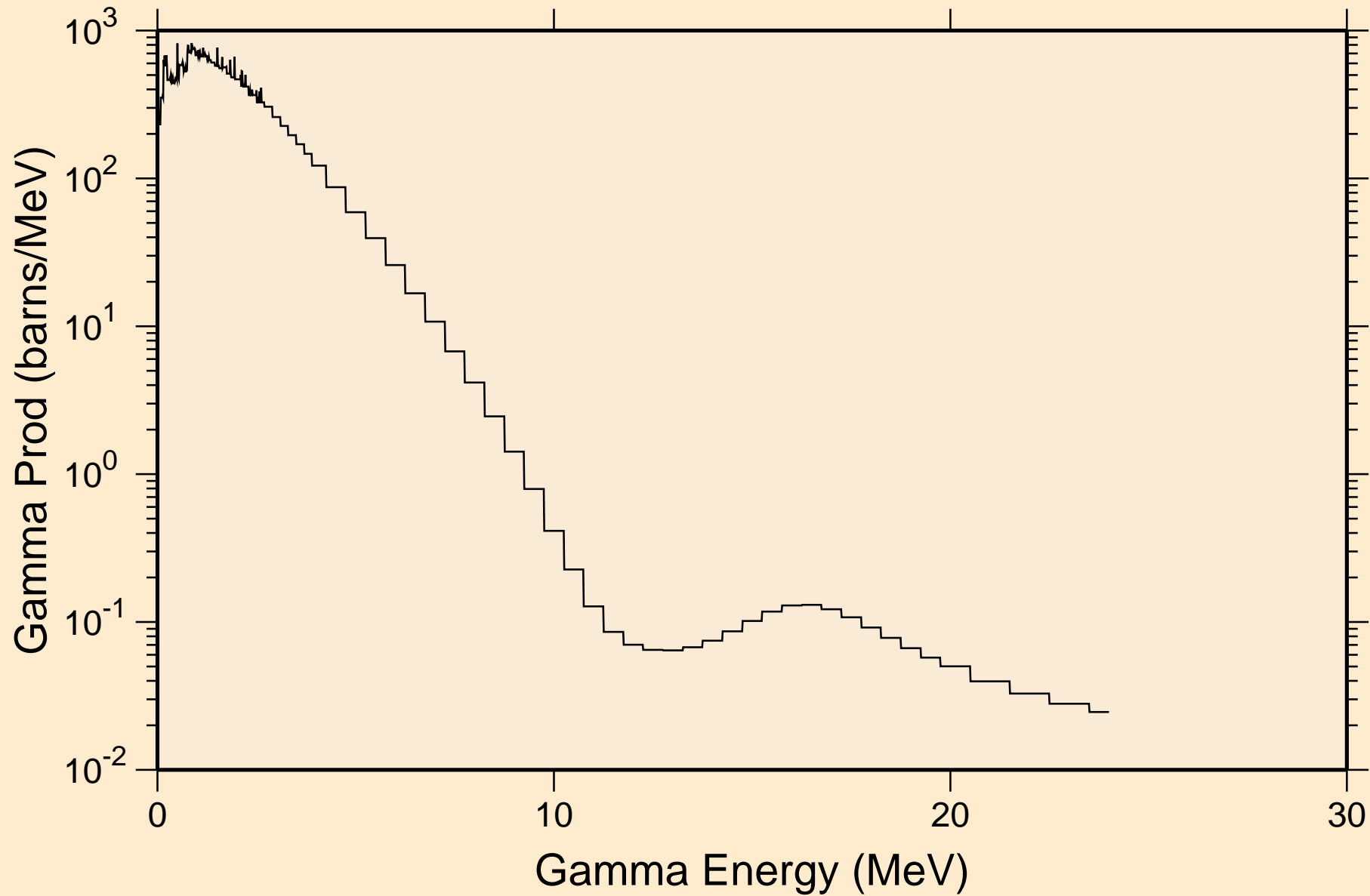




ZR089M NRG TENDL-2015, AKONING  
thermal capture photon spectrum

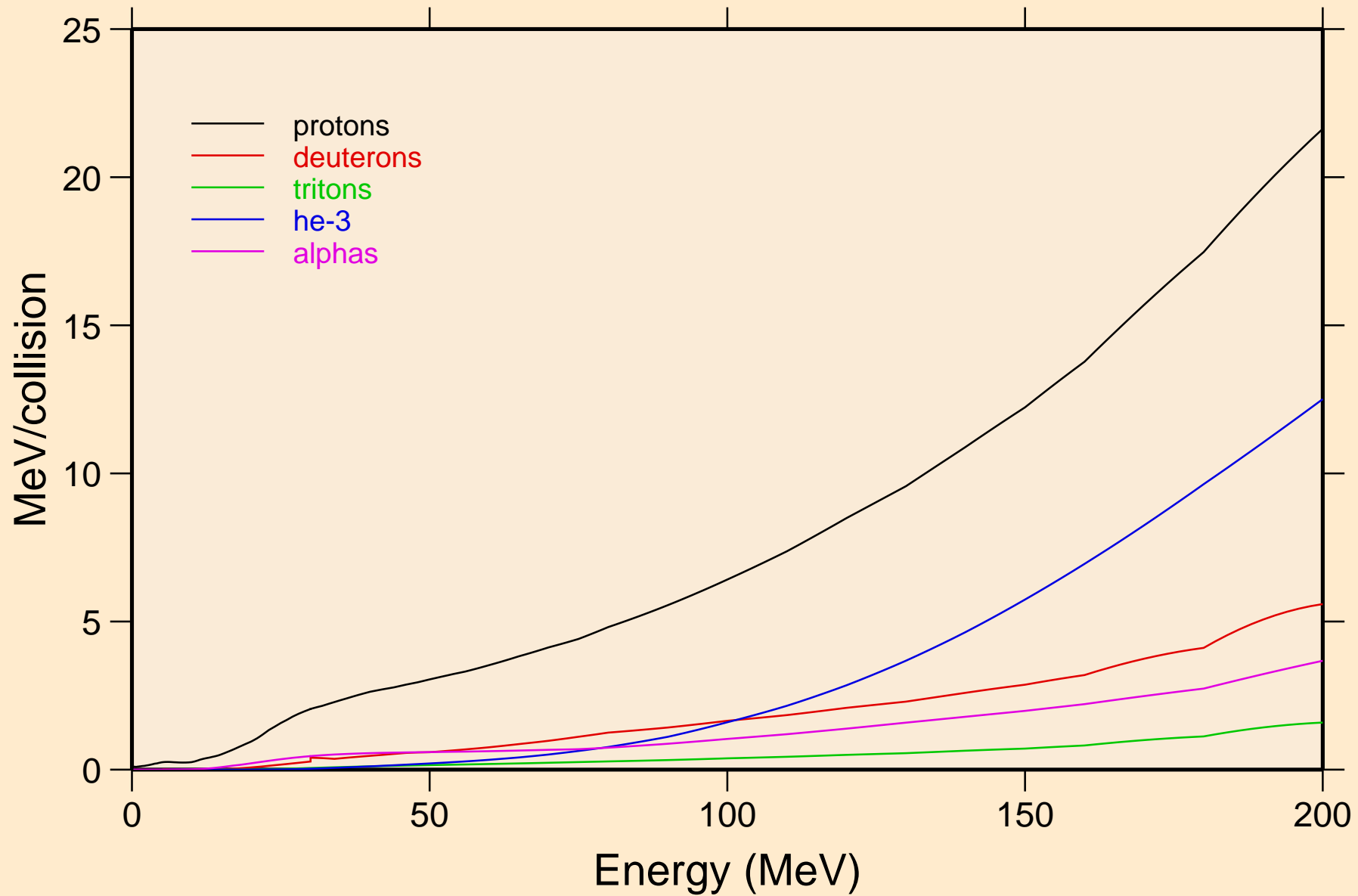


ZR089M NRG TENDL-2015, AKONING  
14 MeV photon spectrum



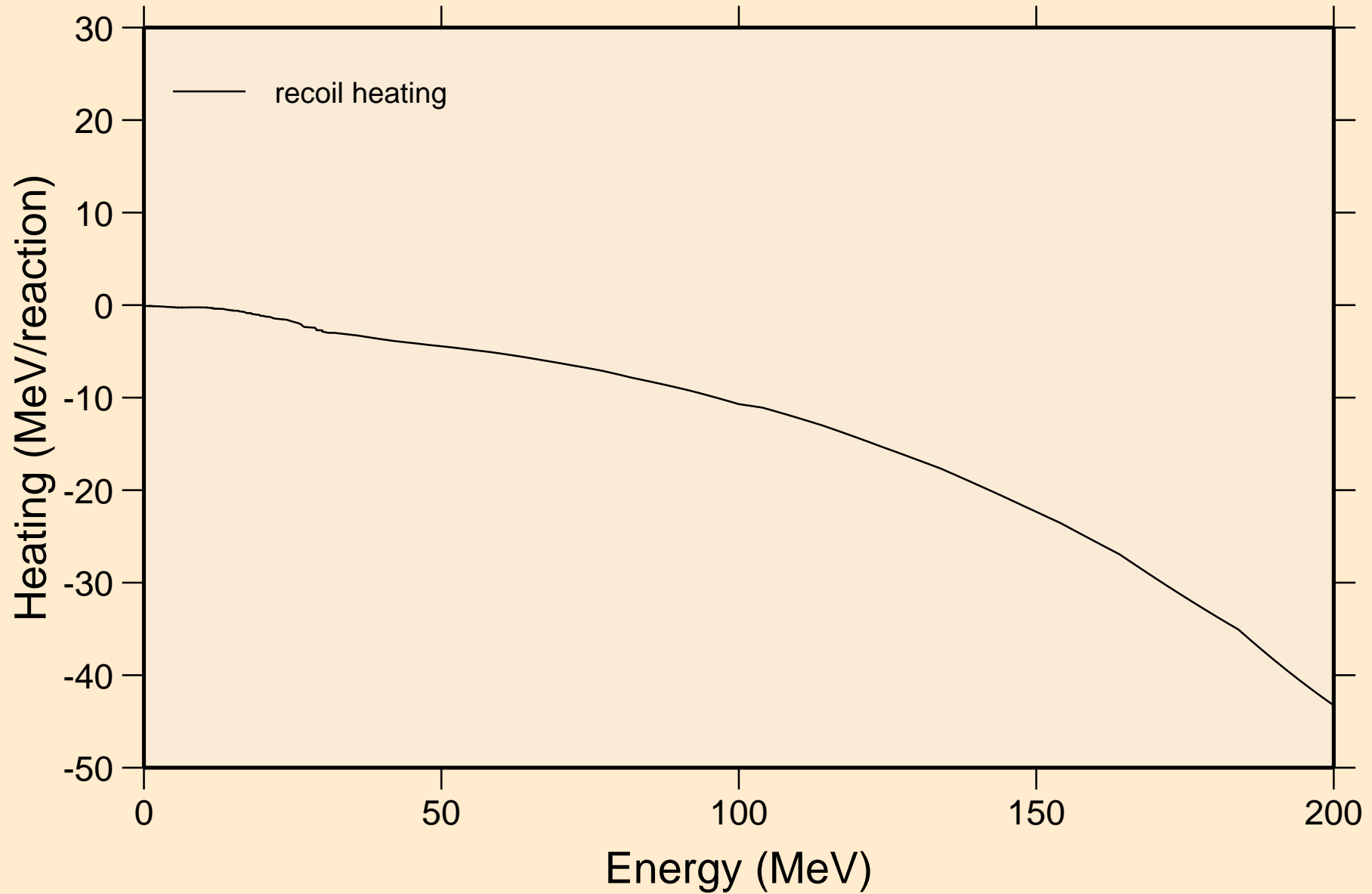
# ZR089M NRG TENDL-2015, AKONING

## Particle heating contributions



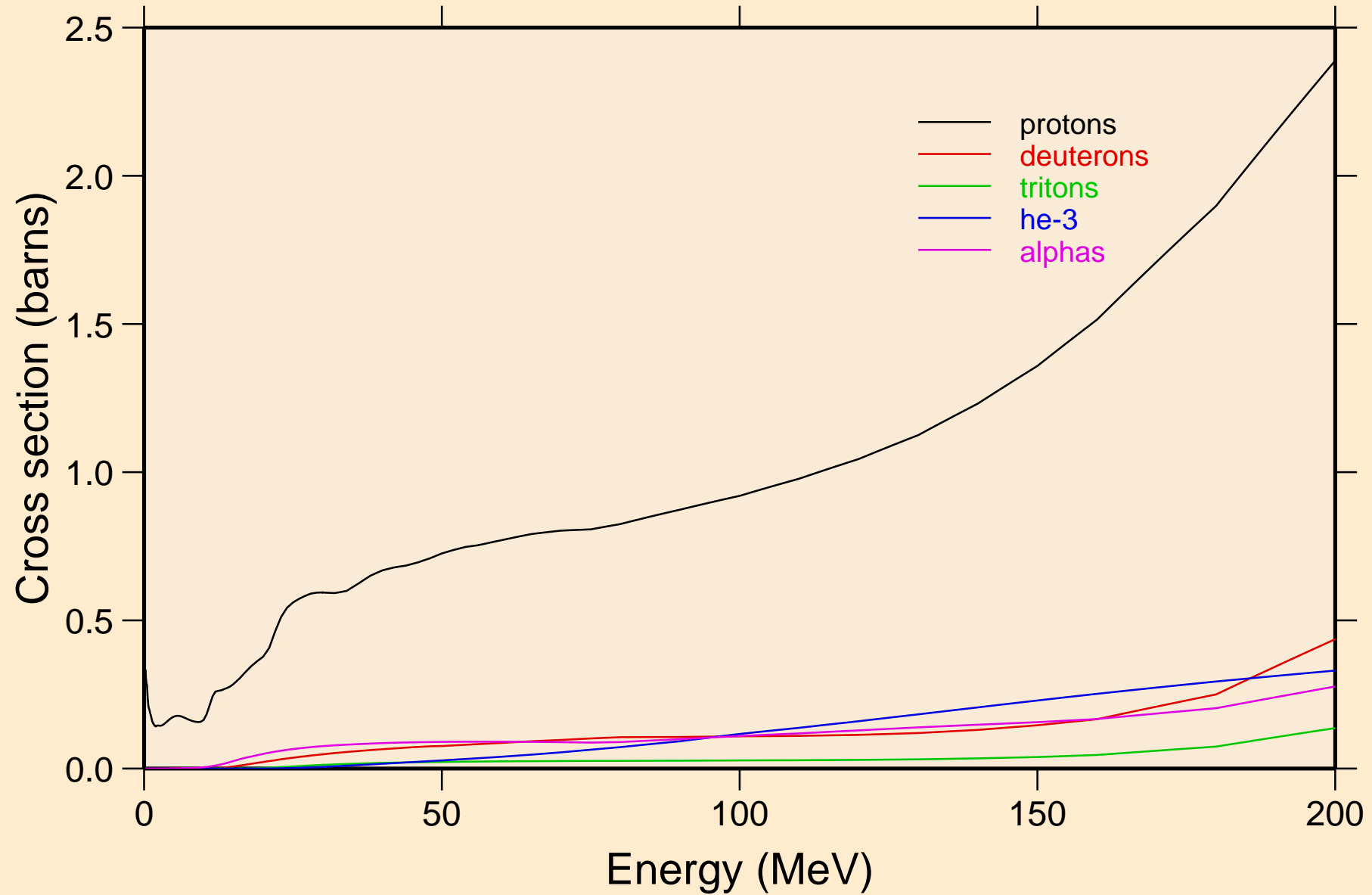
# ZR089M NRG TENDL-2015, AKONING

## Recoil Heating

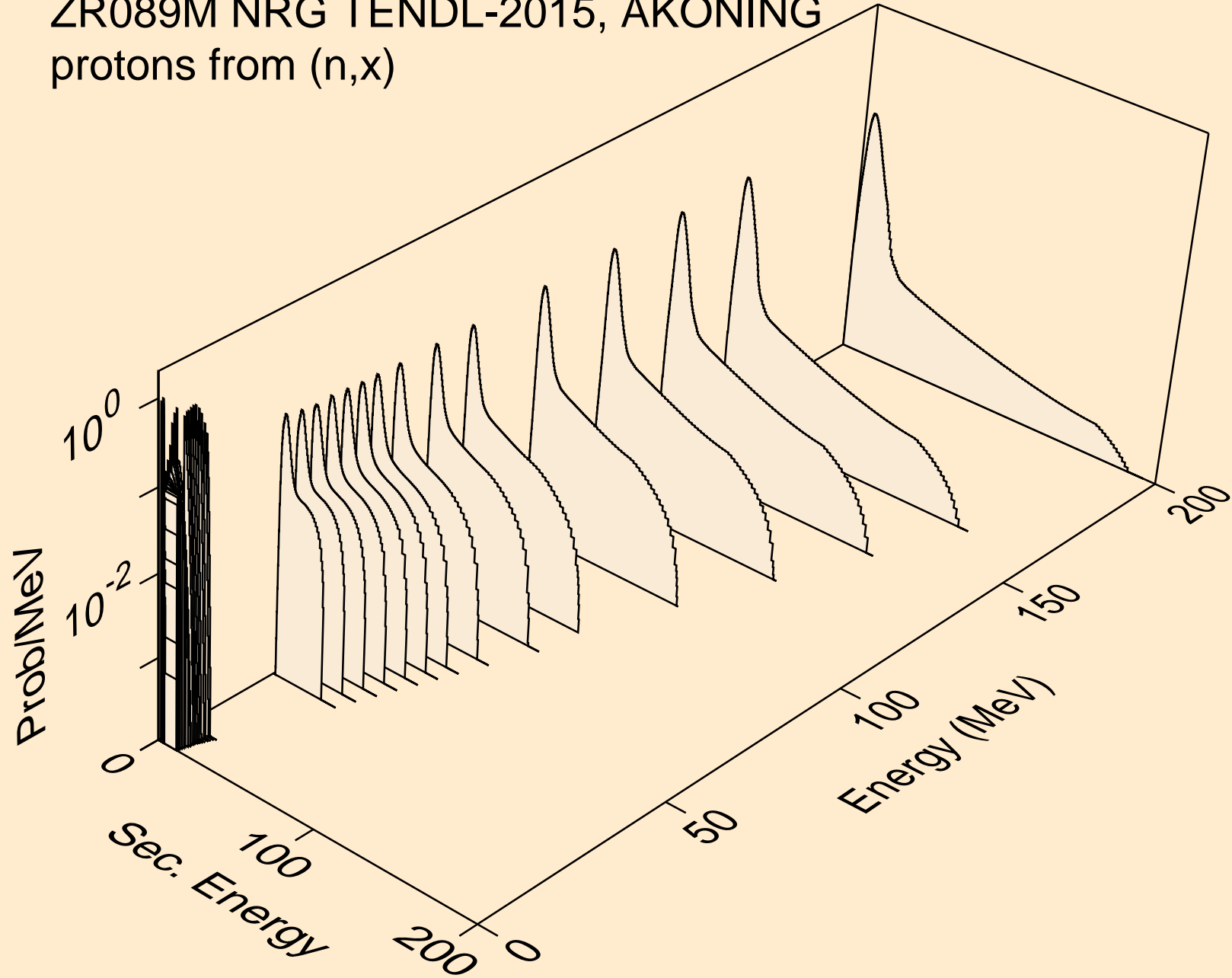


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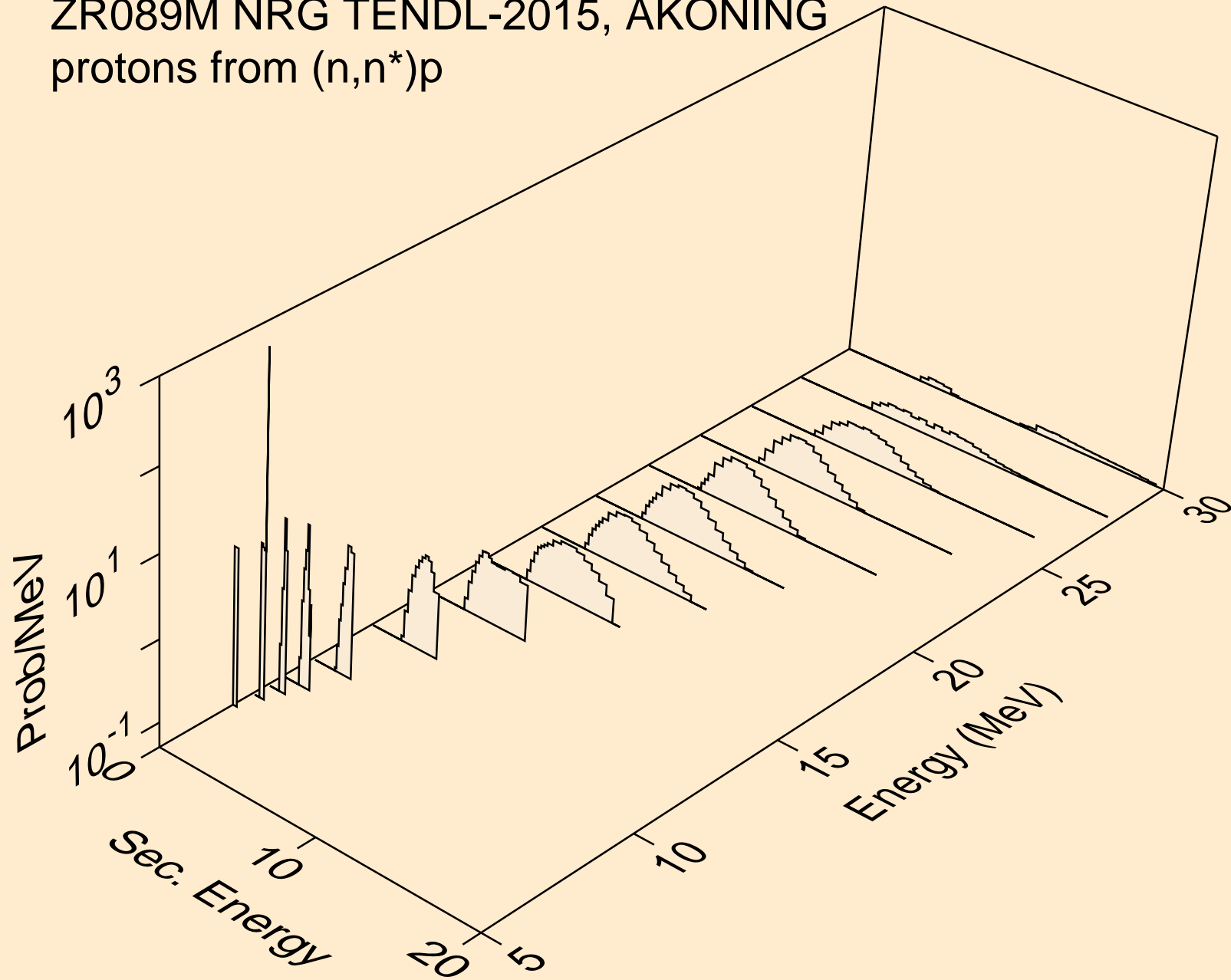
## Particle production cross sections



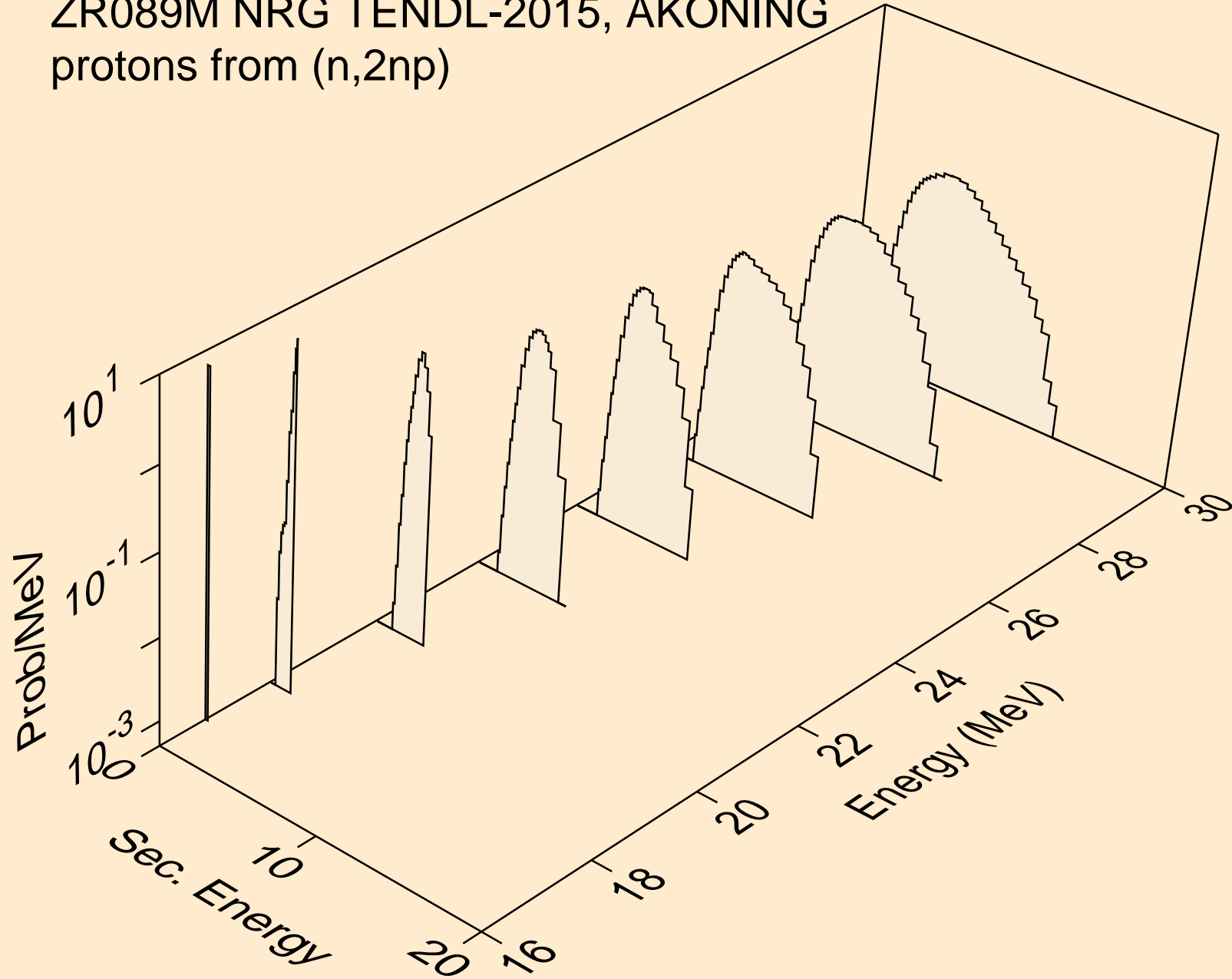
ZR089M NRG TENDL-2015, AKONING  
protons from (n,x)



ZR089M NRG TENDL-2015, AKONING  
protons from (n,n\*)p

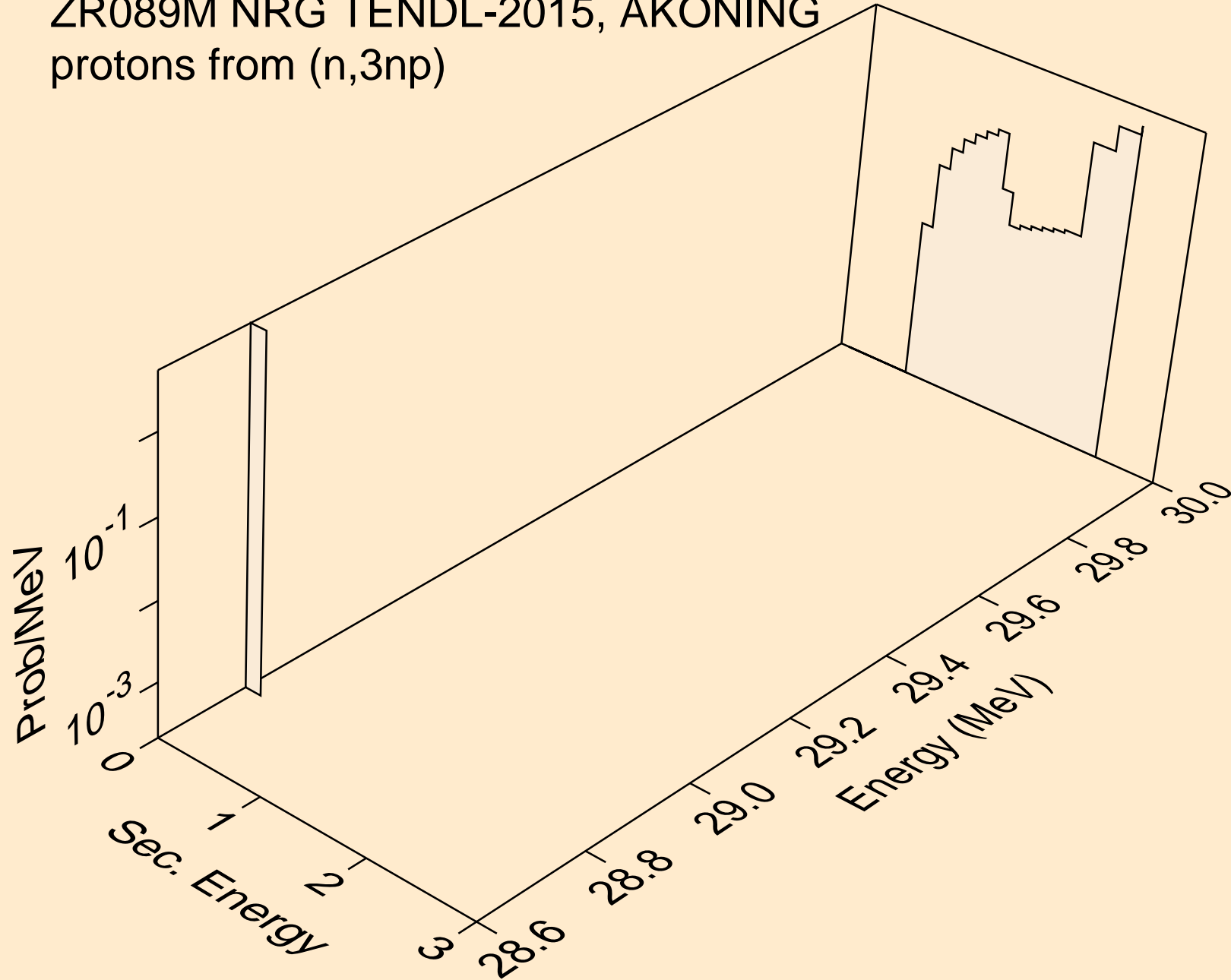


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protons from (n,2np)

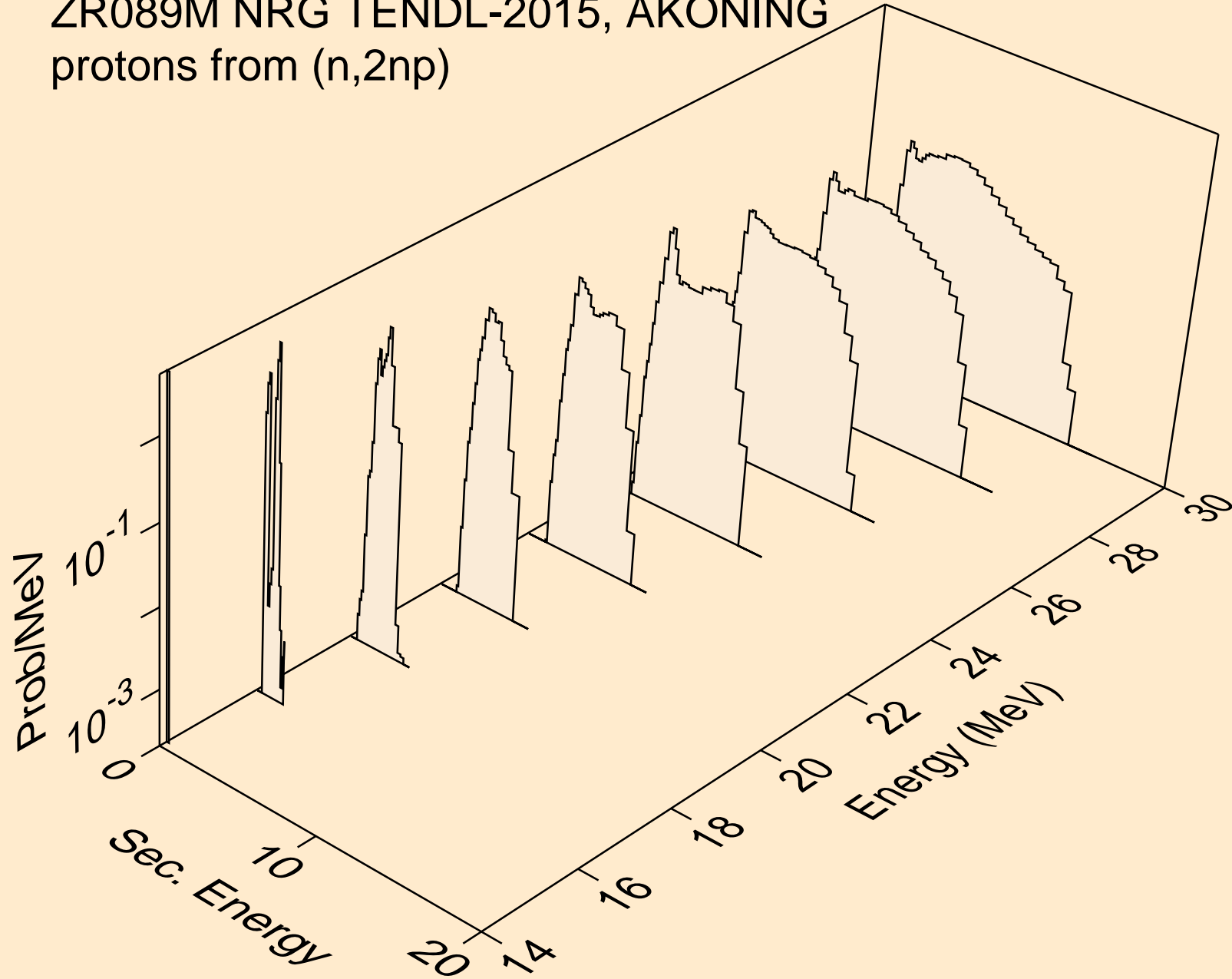




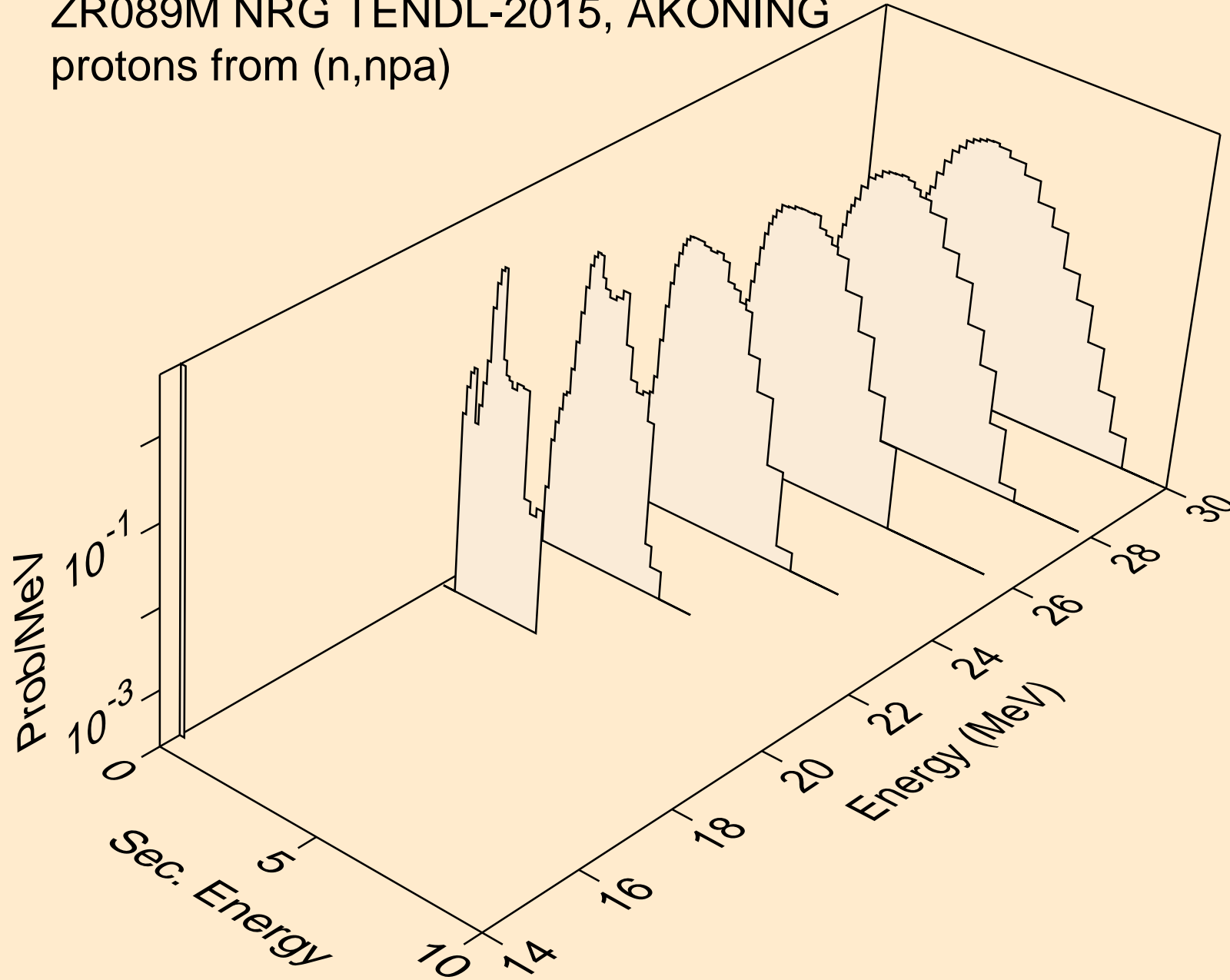
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protons from (n,3np)



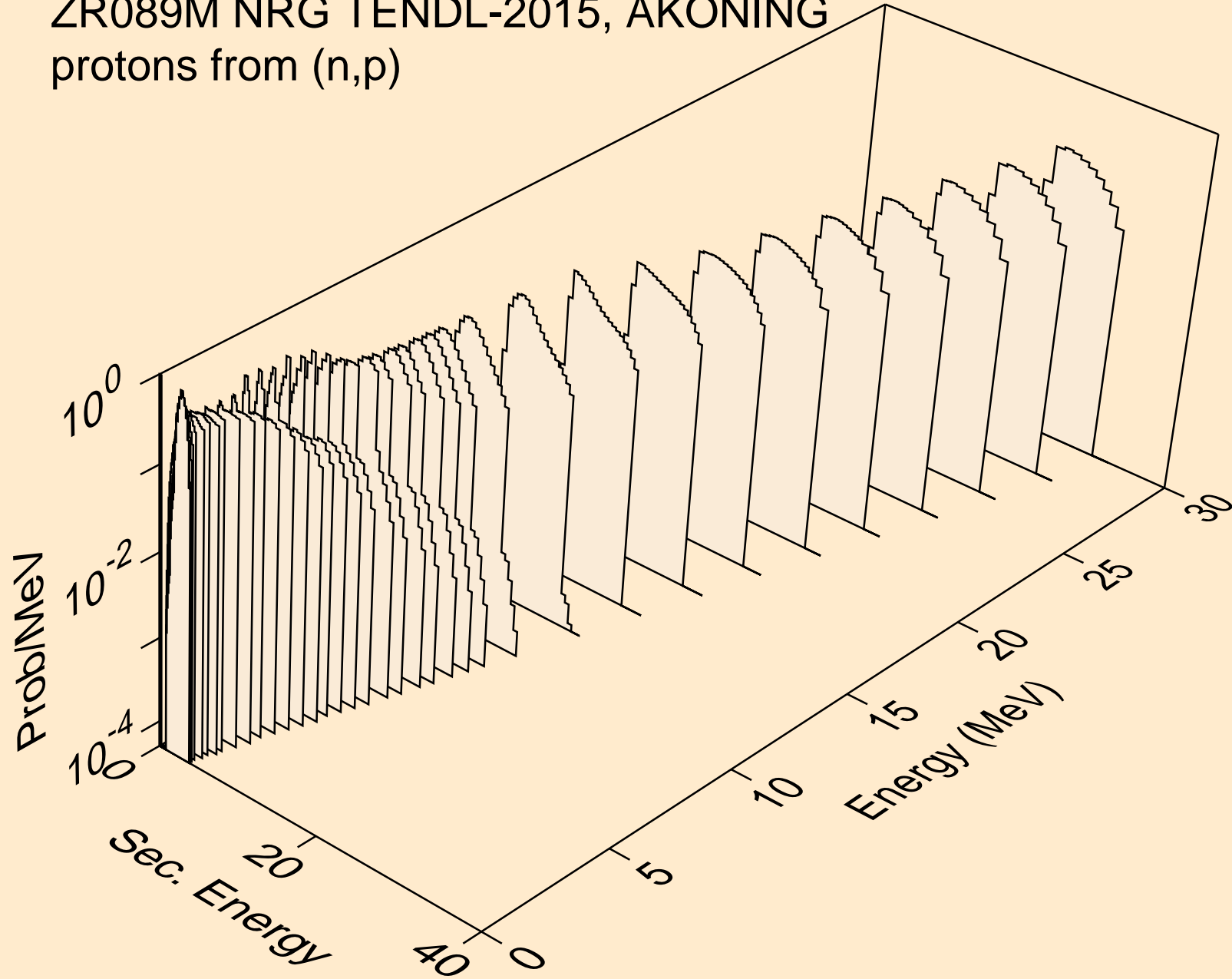
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protons from (n,2np)



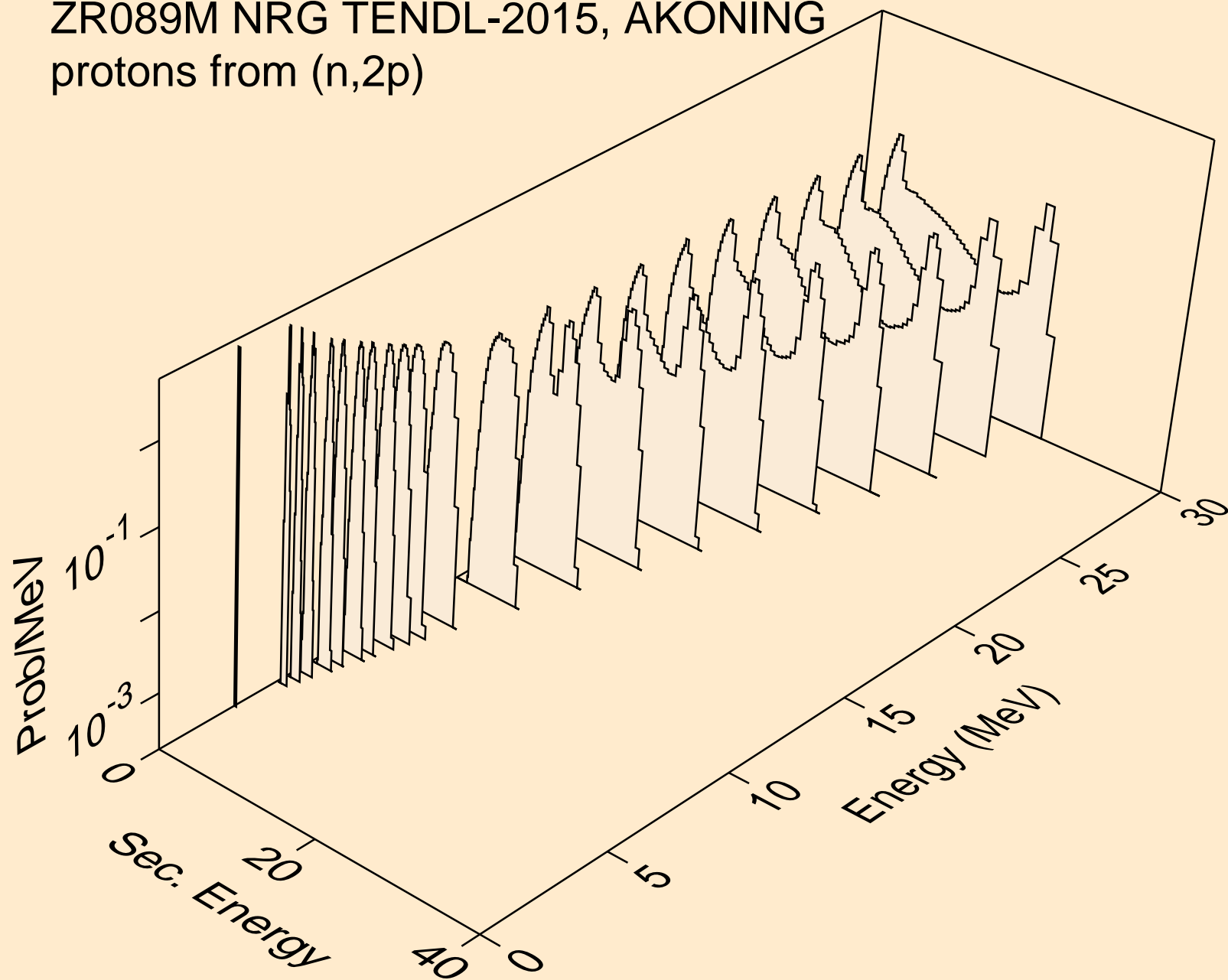
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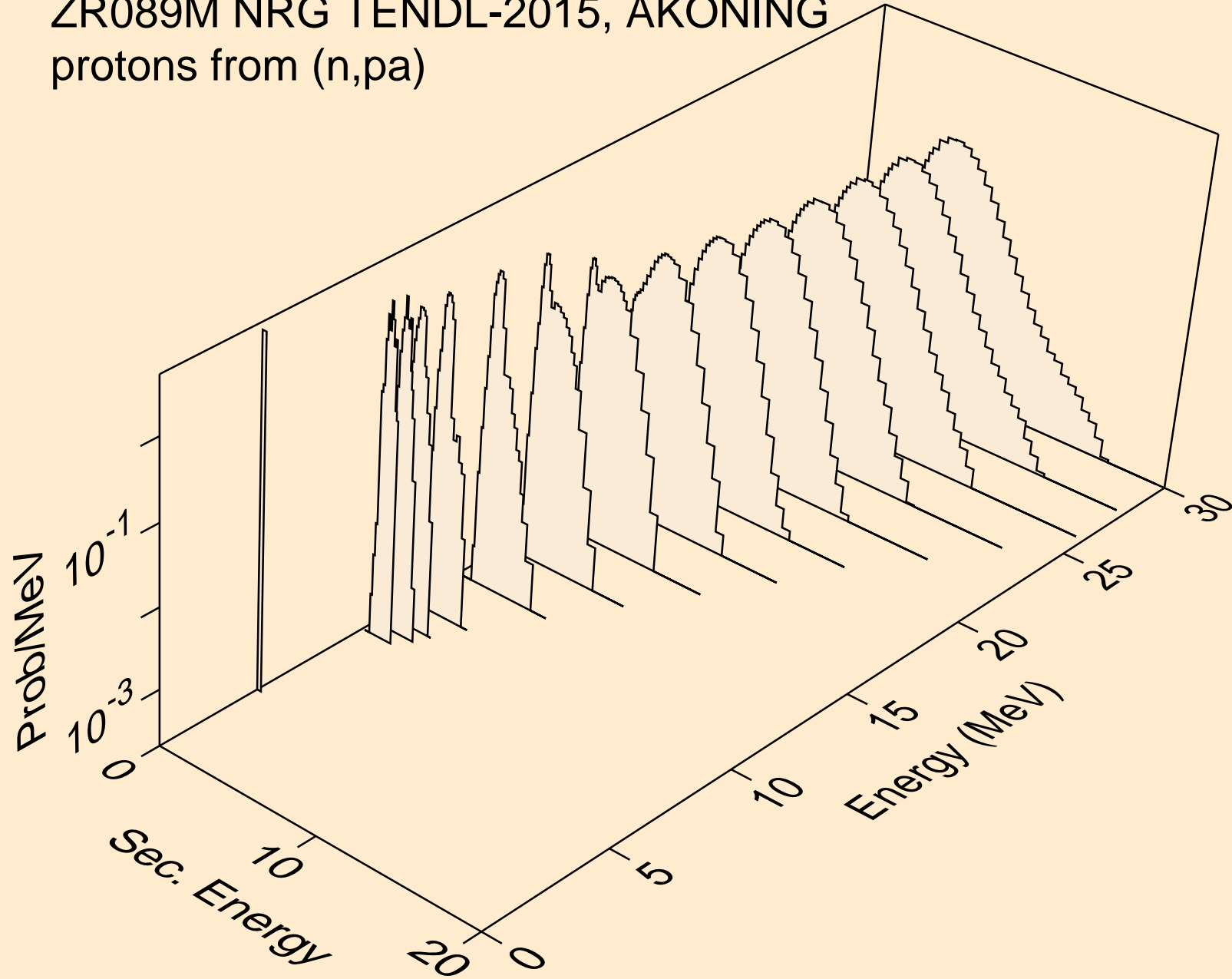
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protons from (n,p)



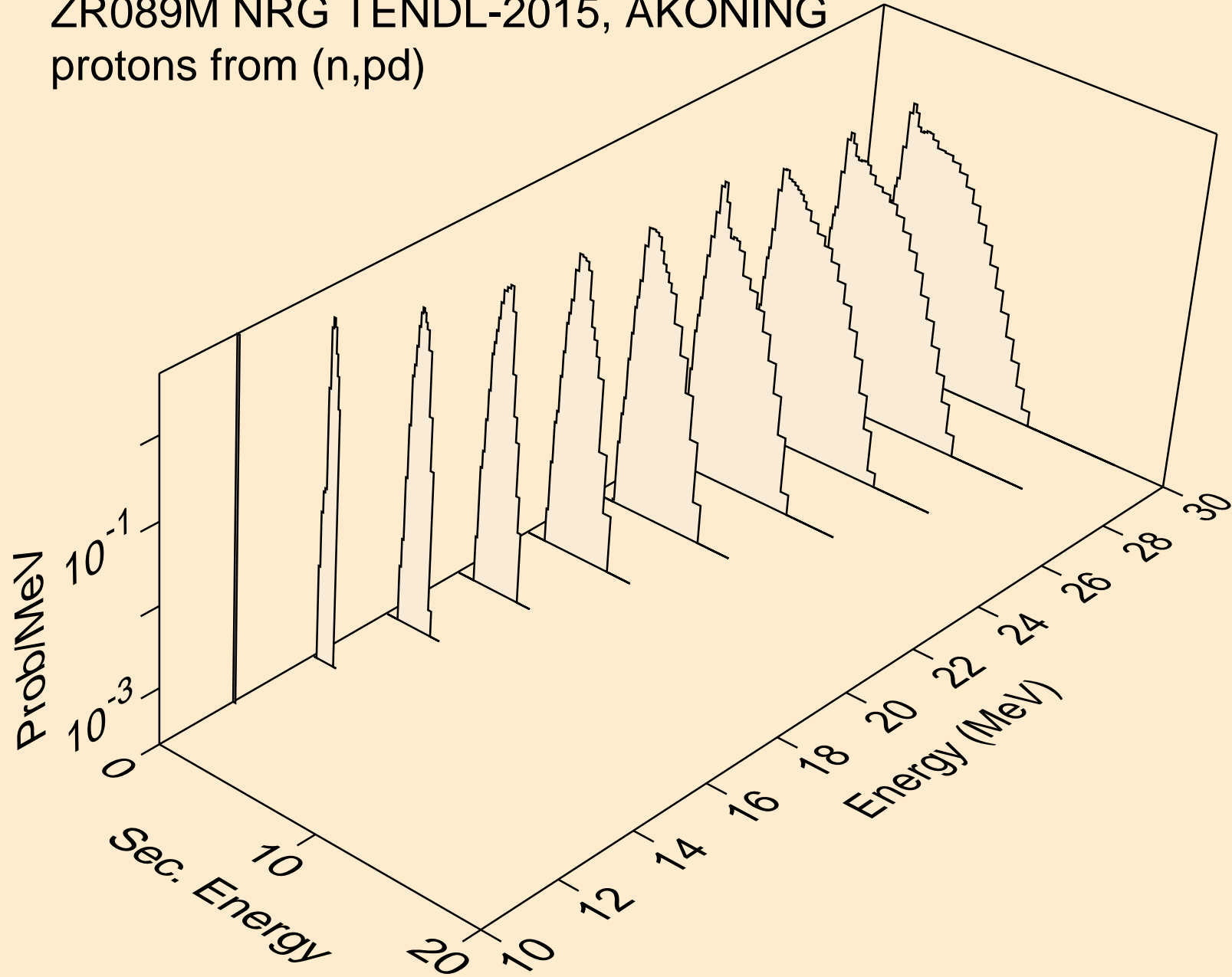
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protons from (n,2p)



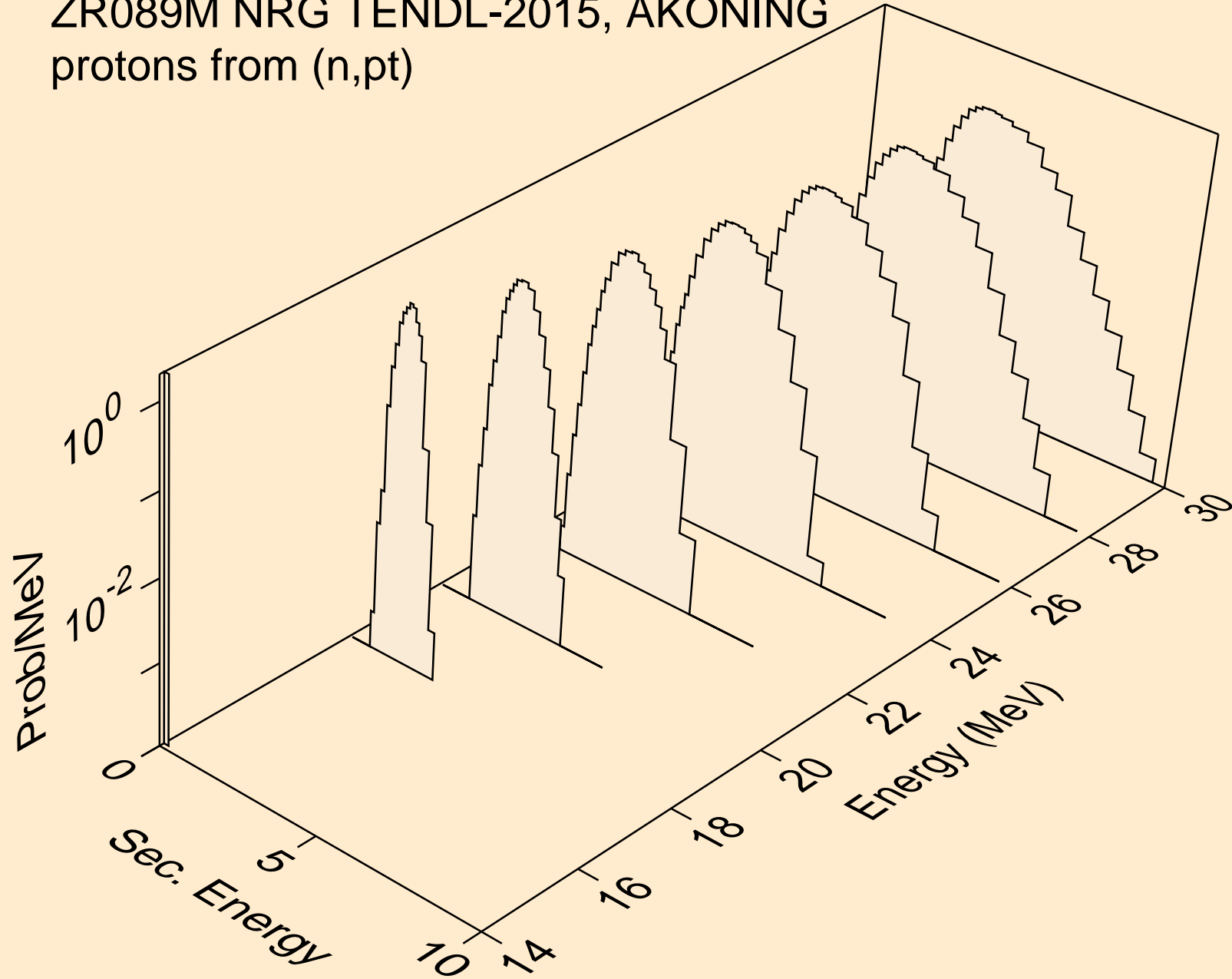
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protons from (n,pa)



ZR089M NRG TENDL-2015, AKONING  
protons from (n,pd)

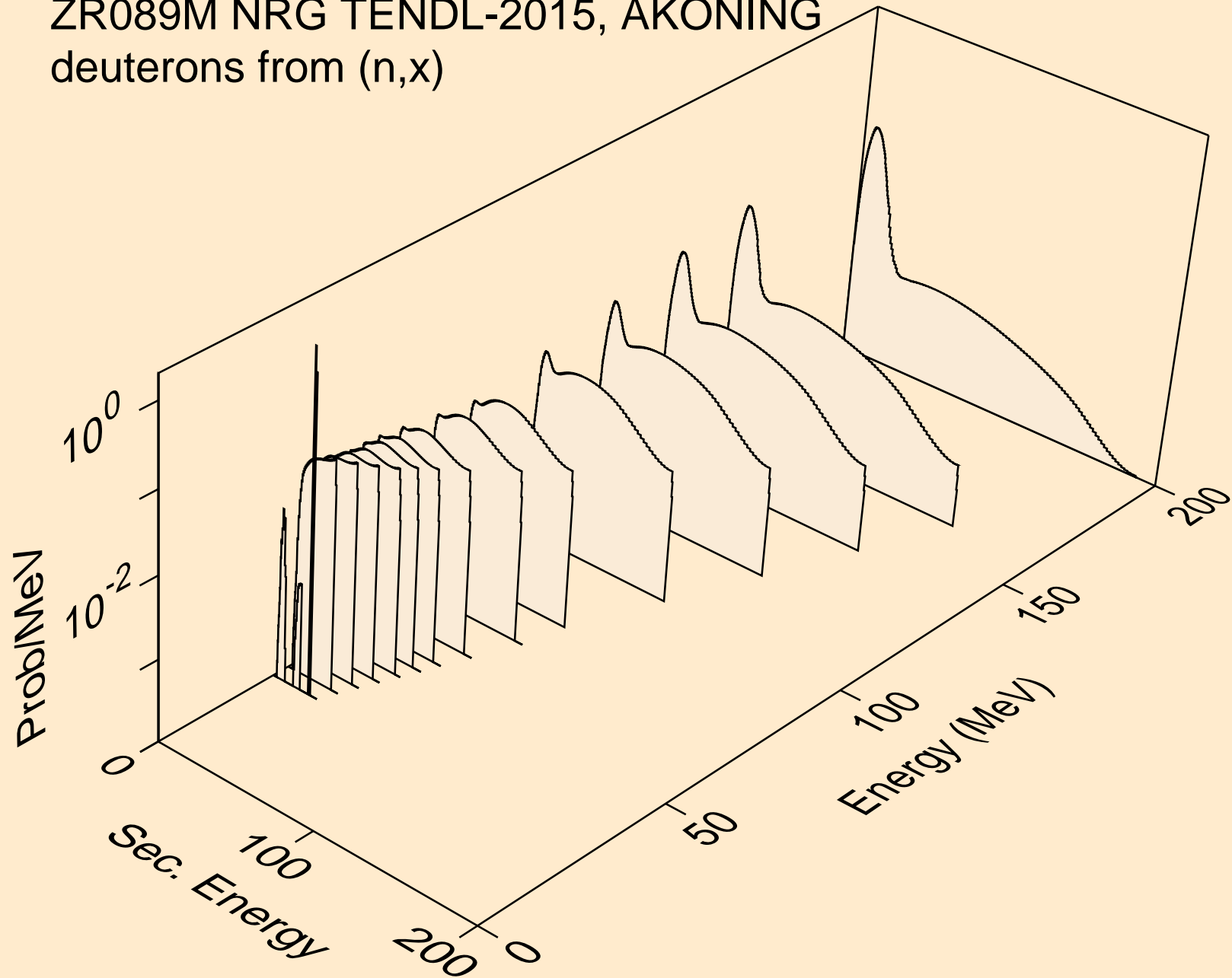


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protons from (n,pt)

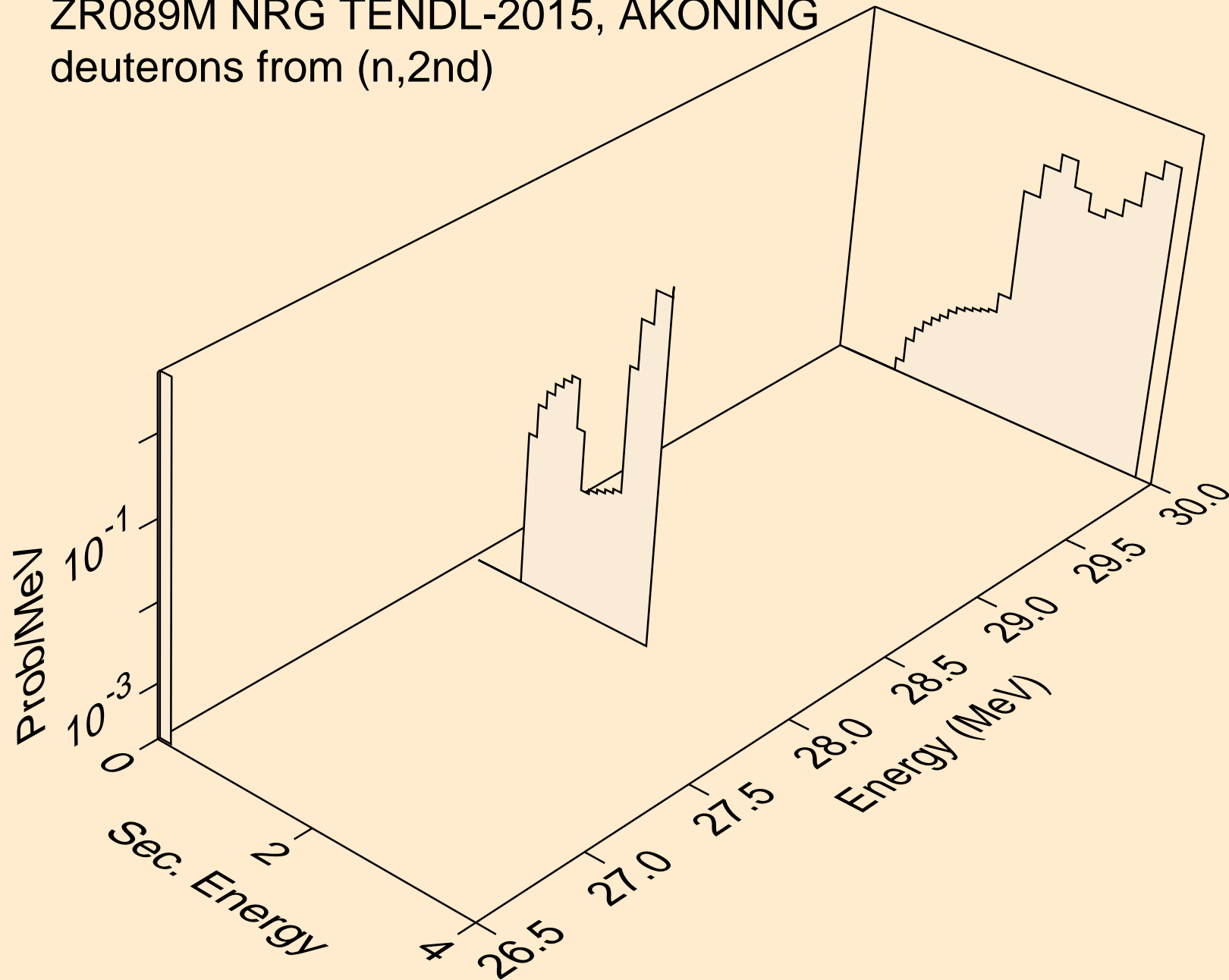




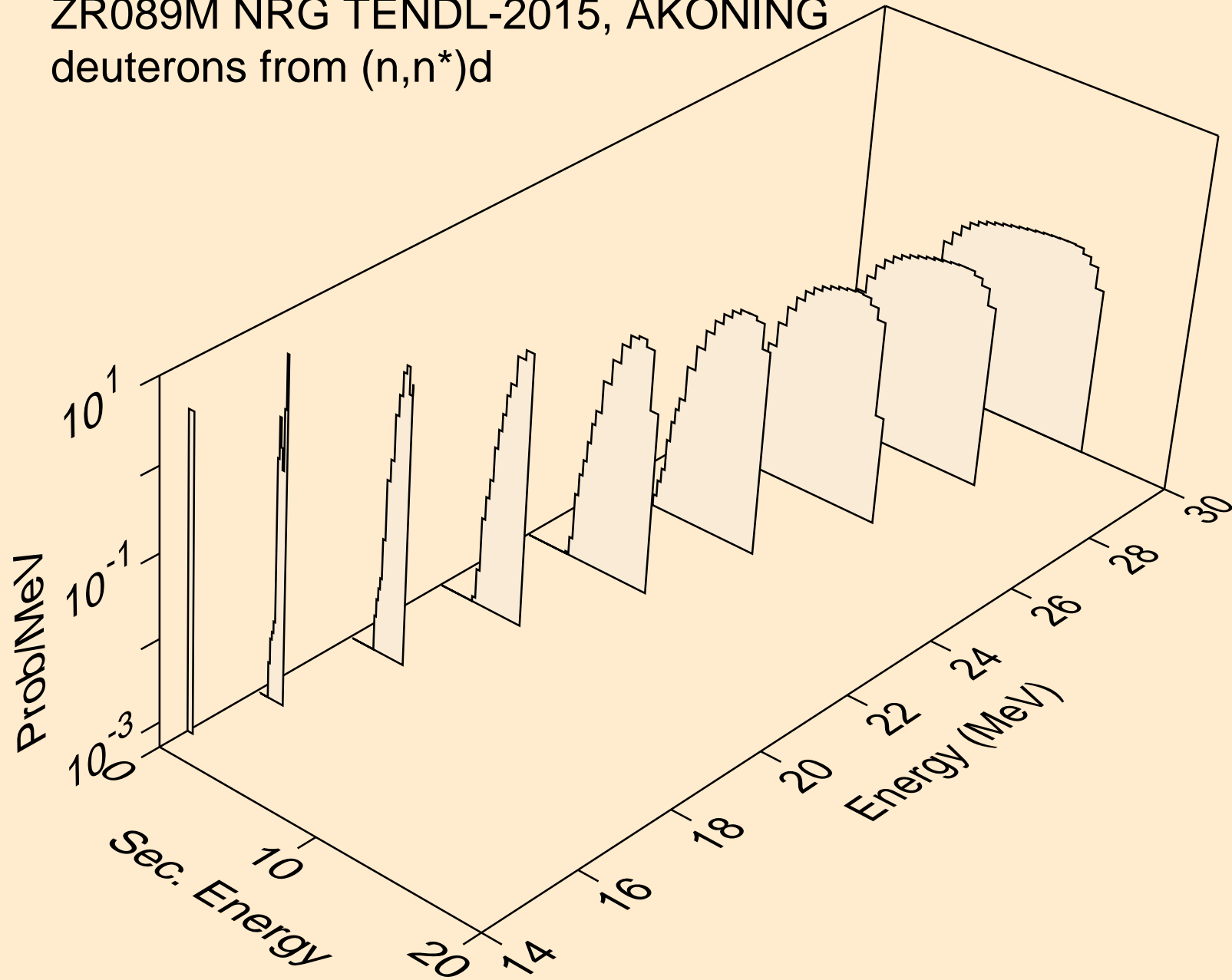
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deuterons from (n,x)



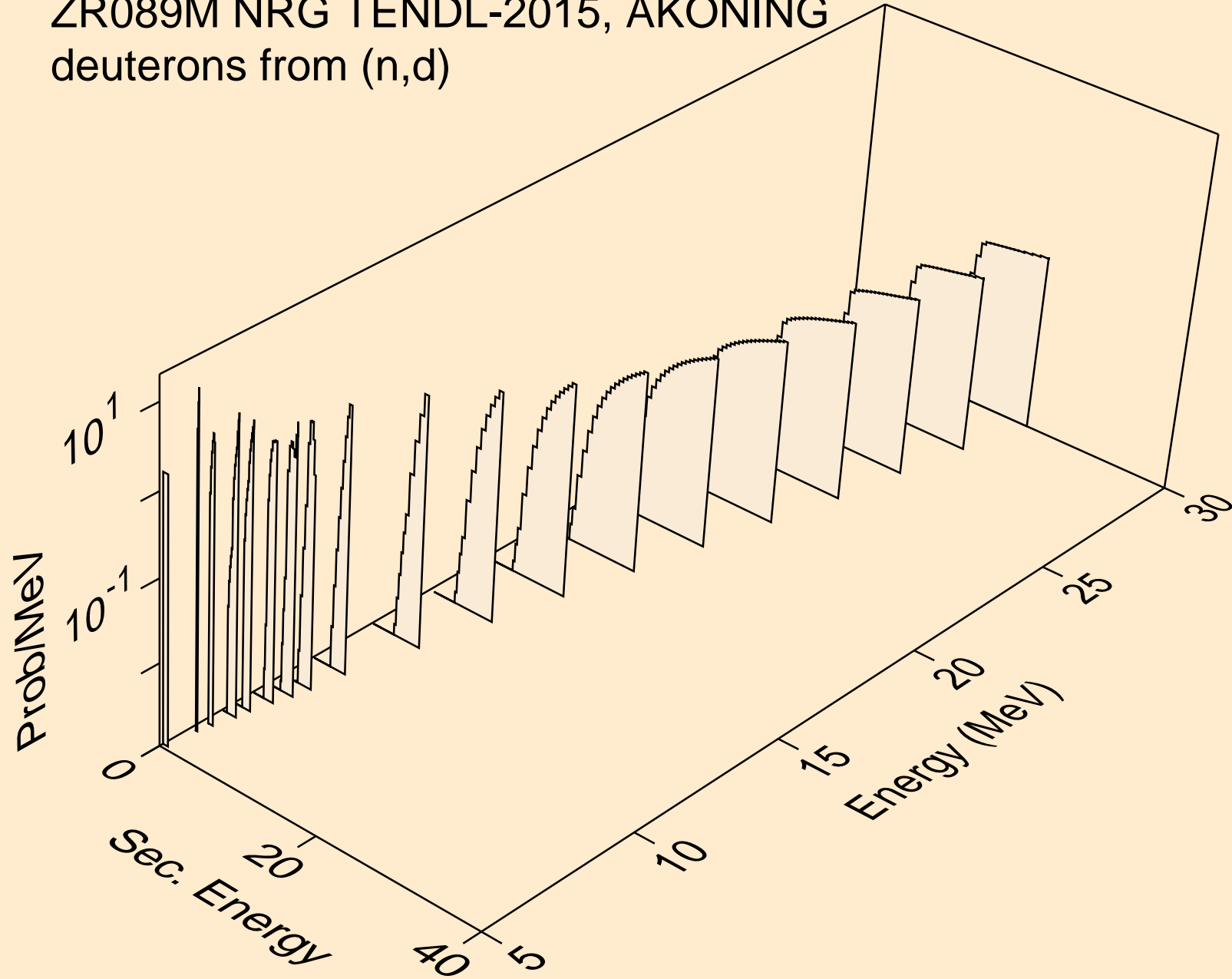
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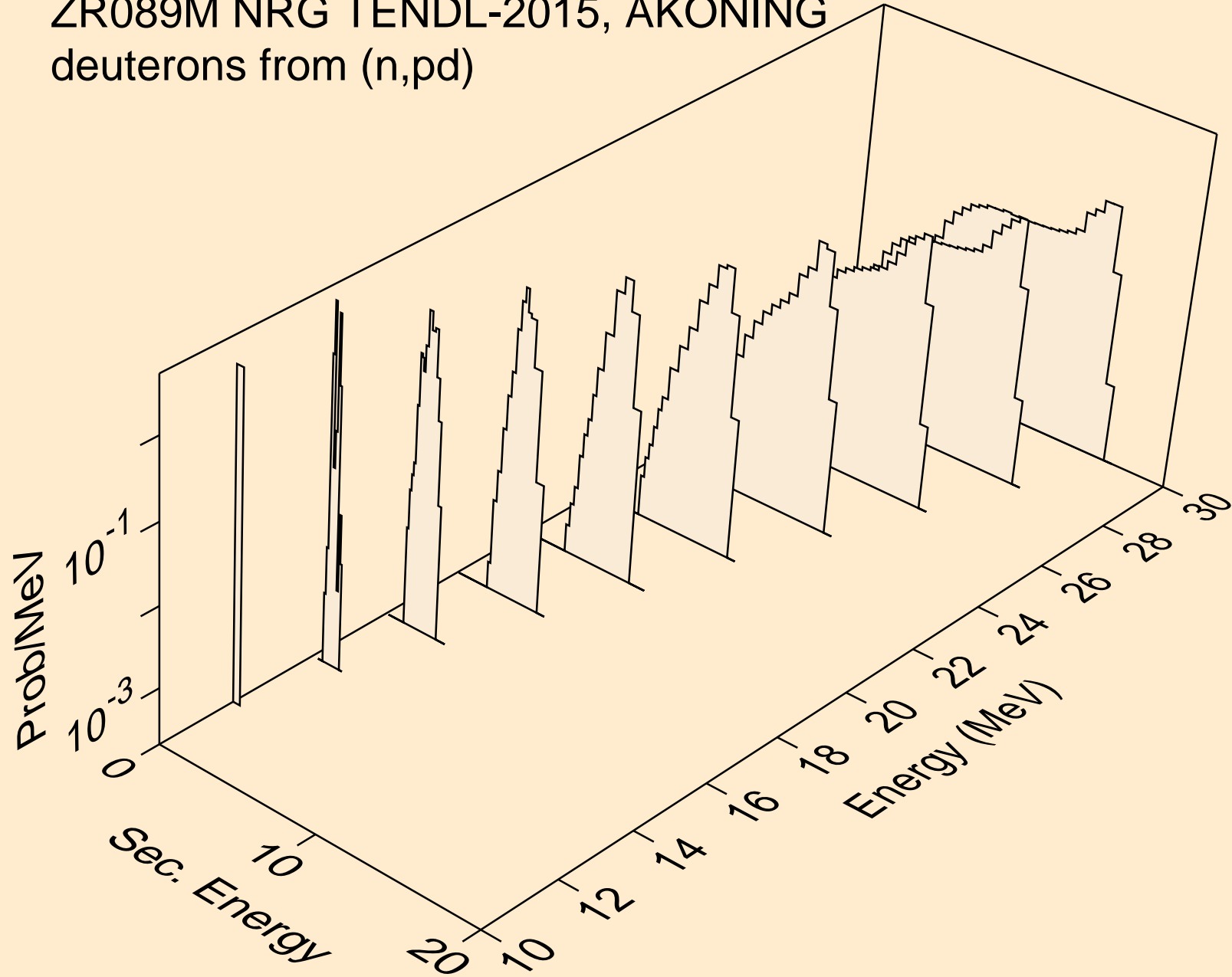
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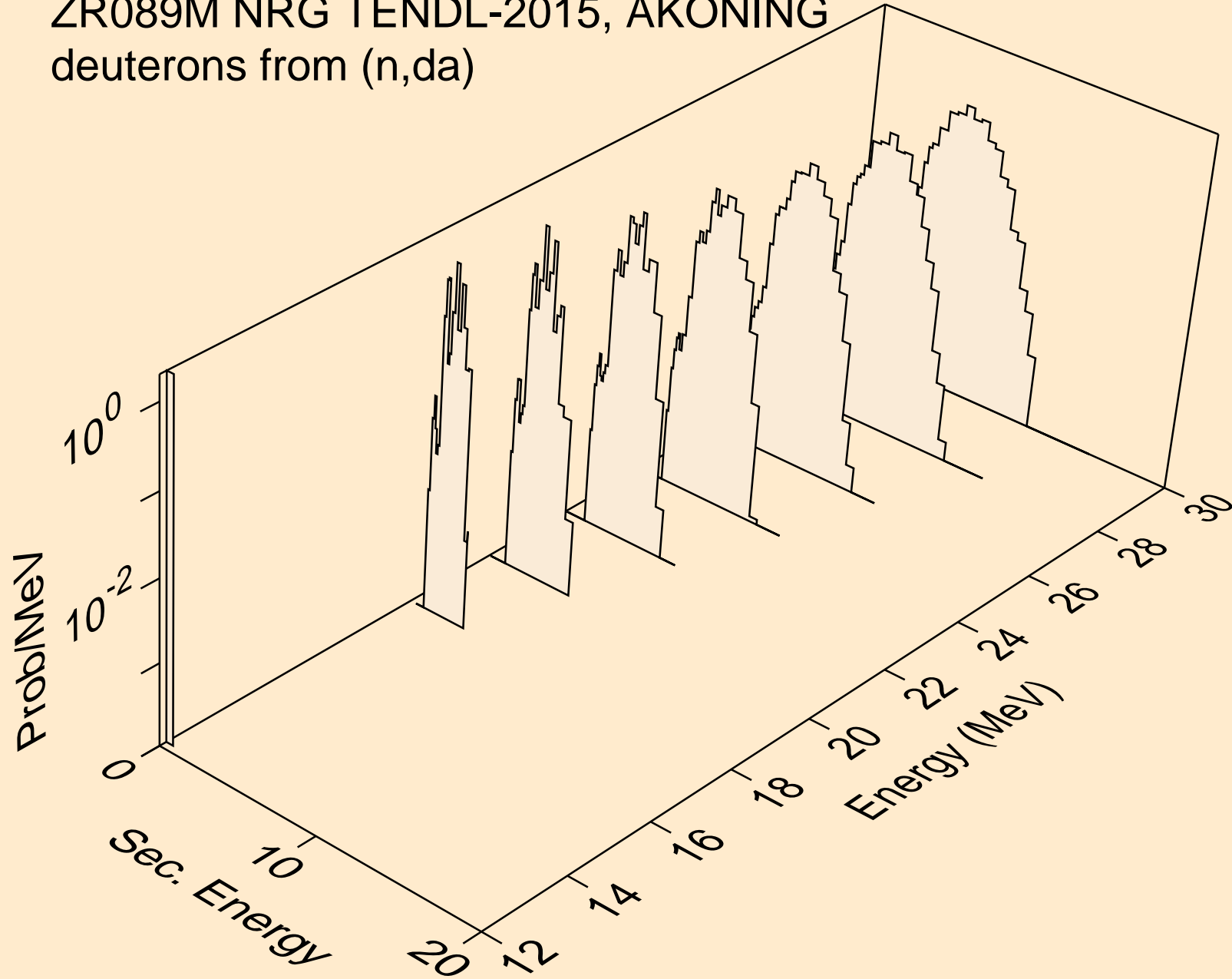
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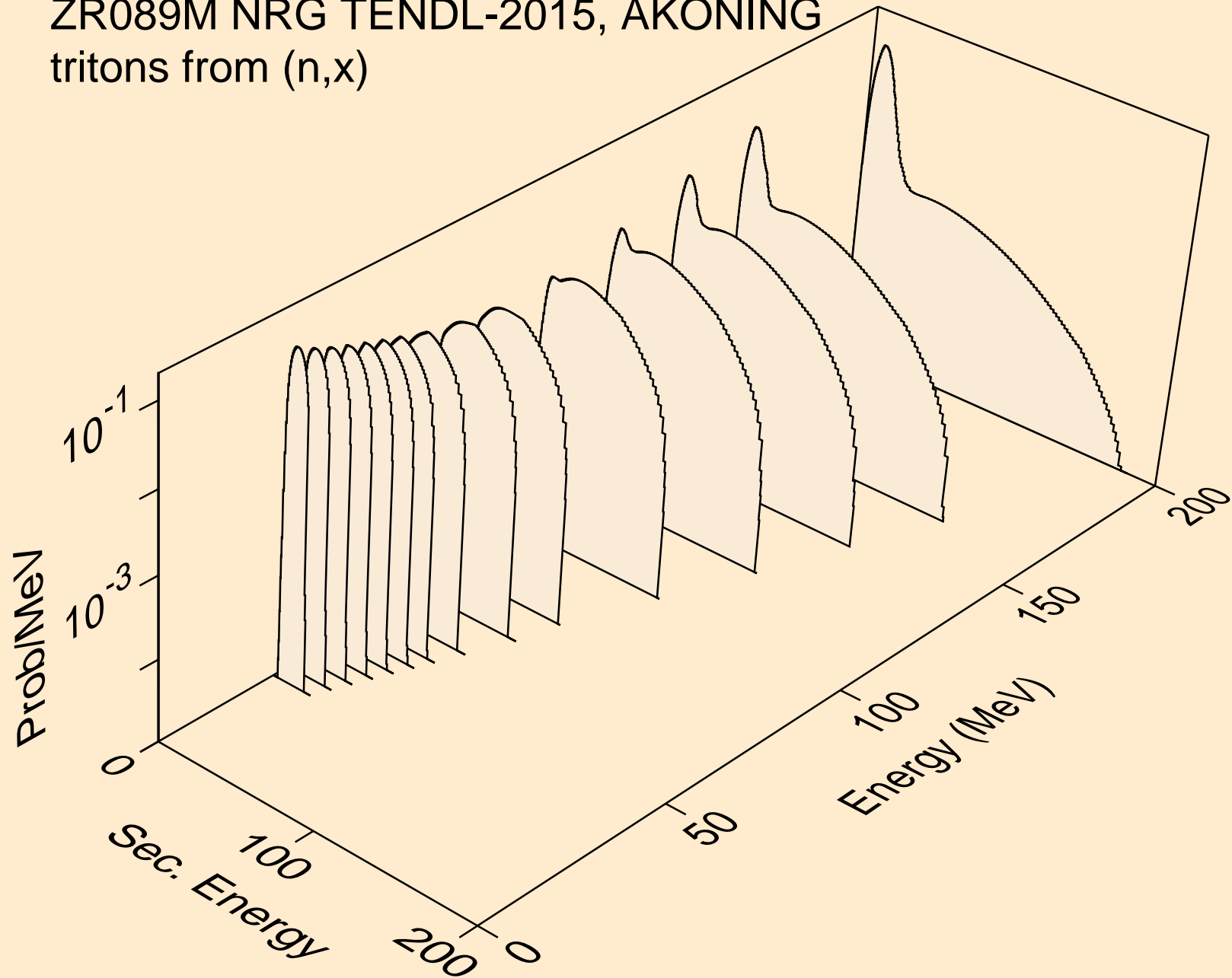
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deuterons from (n,pd)



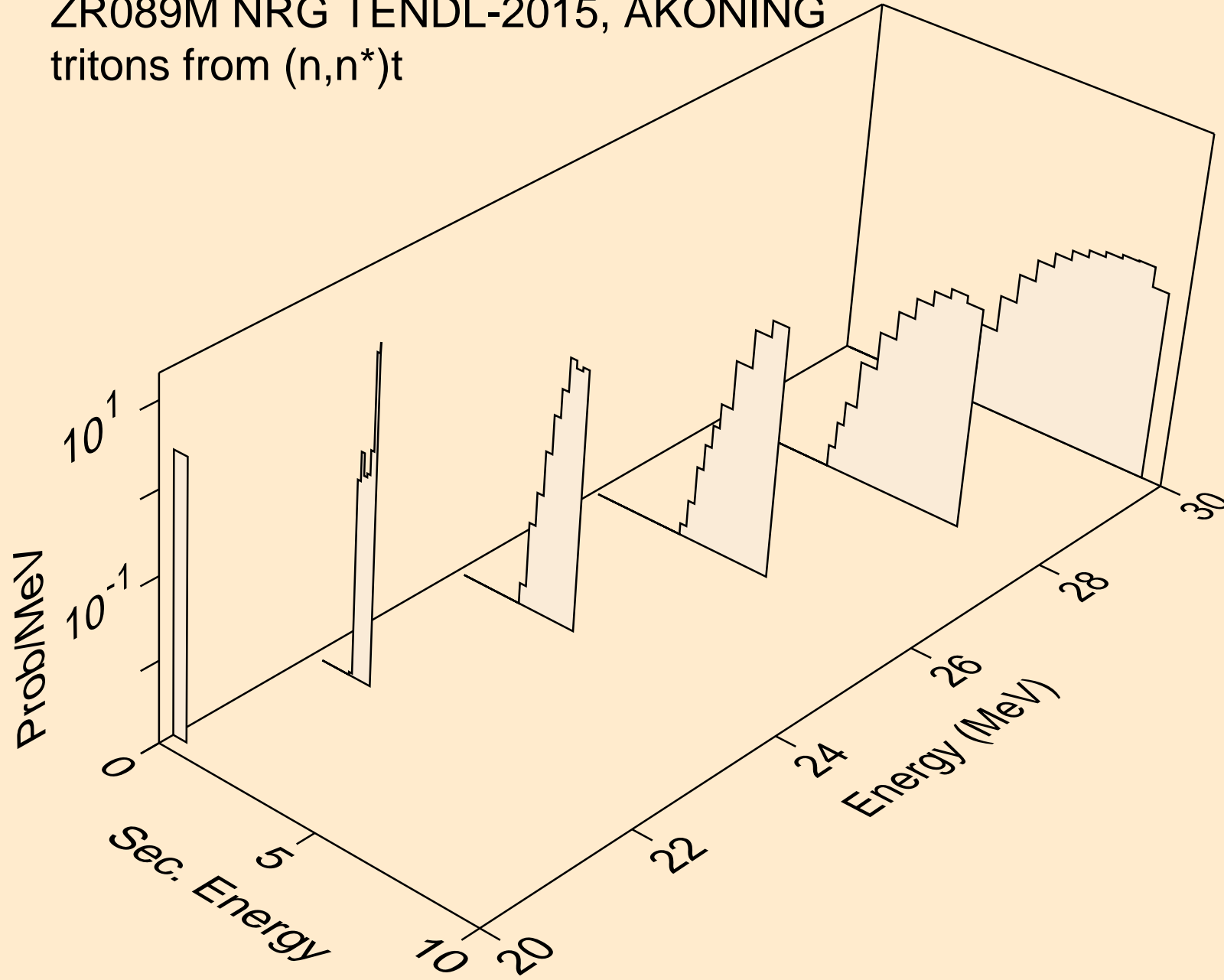
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deuterons from (n,da)



ZR089M NRG TENDL-2015, AKONING  
tritons from (n,x)

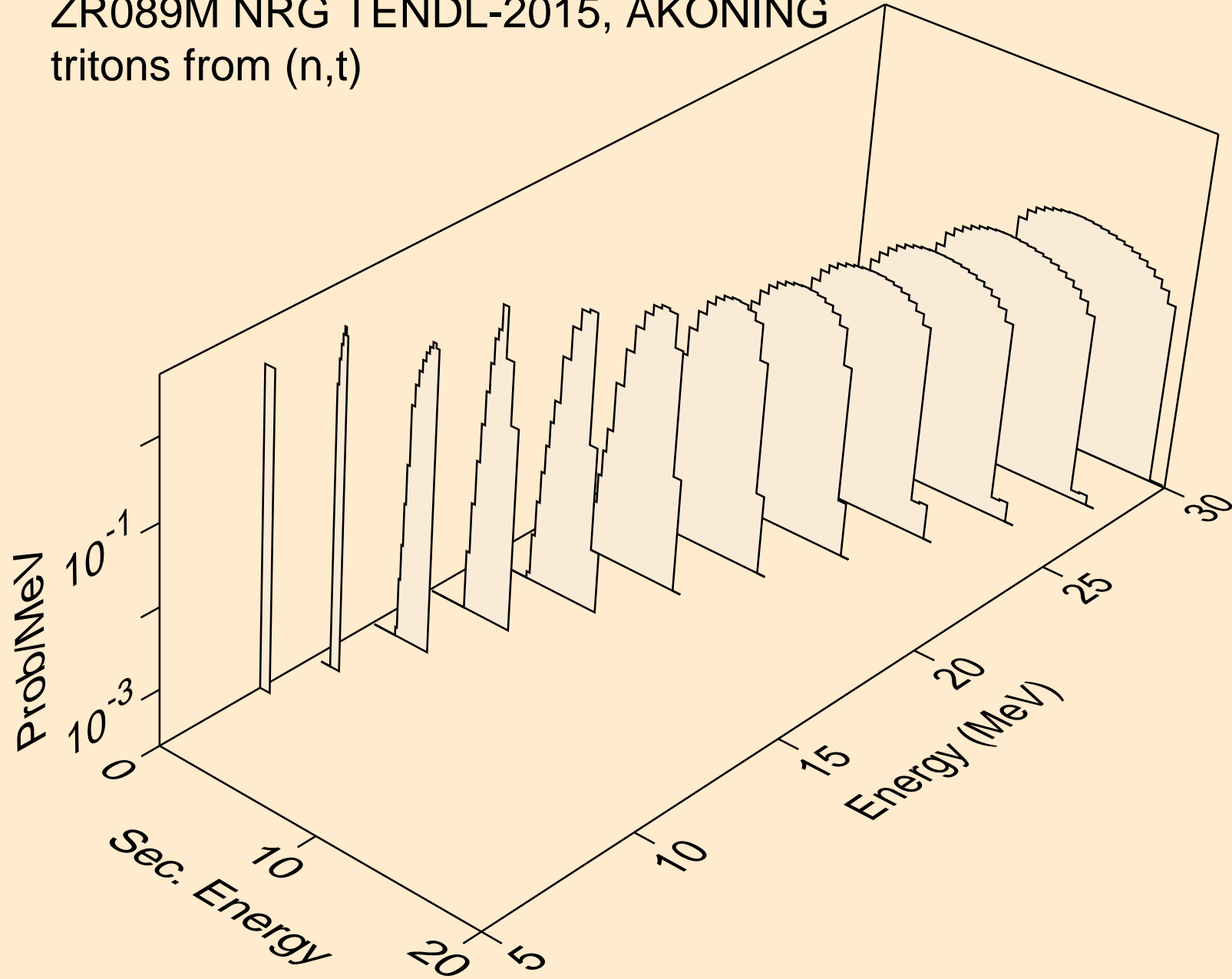


ZR089M NRG TENDL-2015, AKONING  
tritons from (n,n\*)t

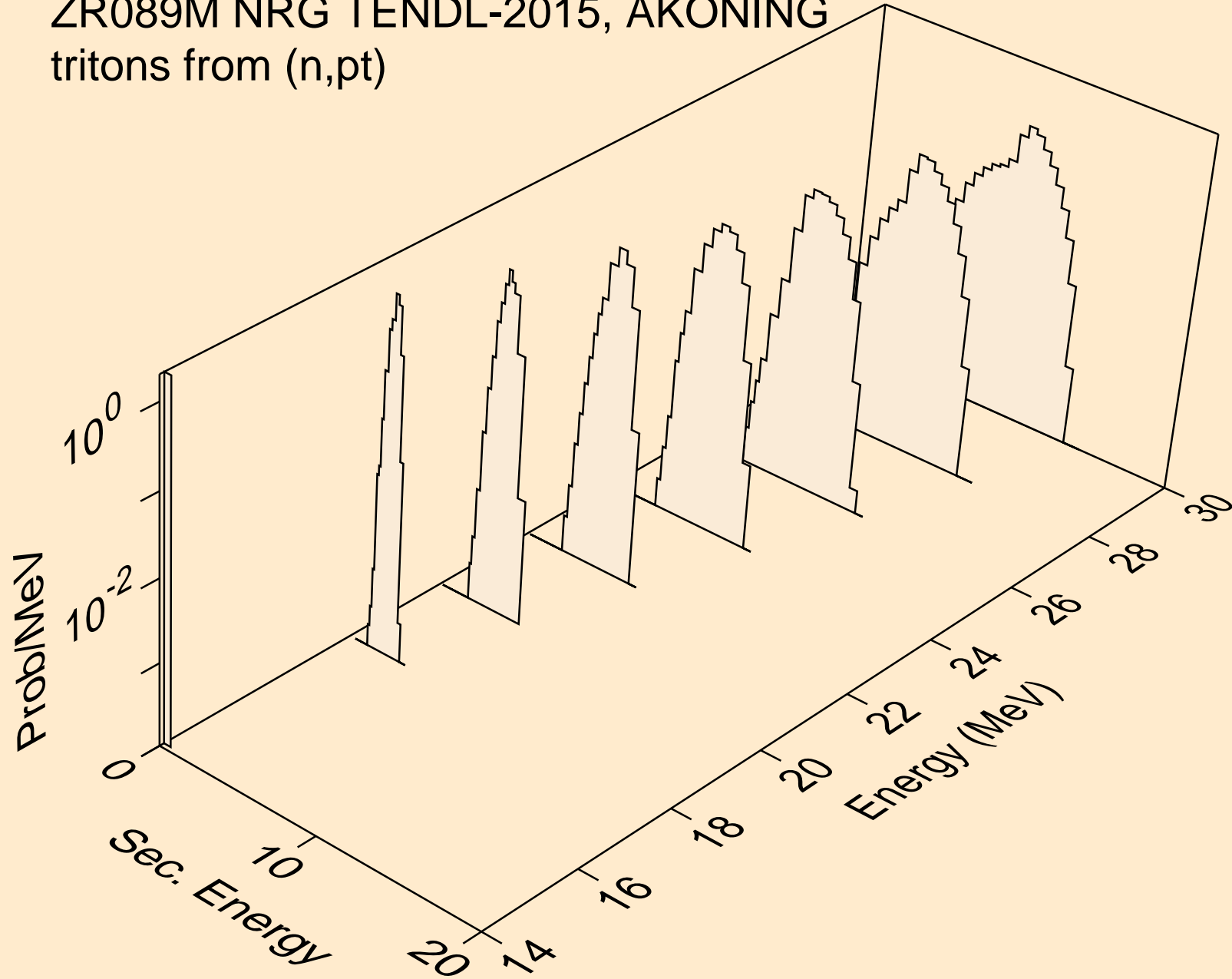




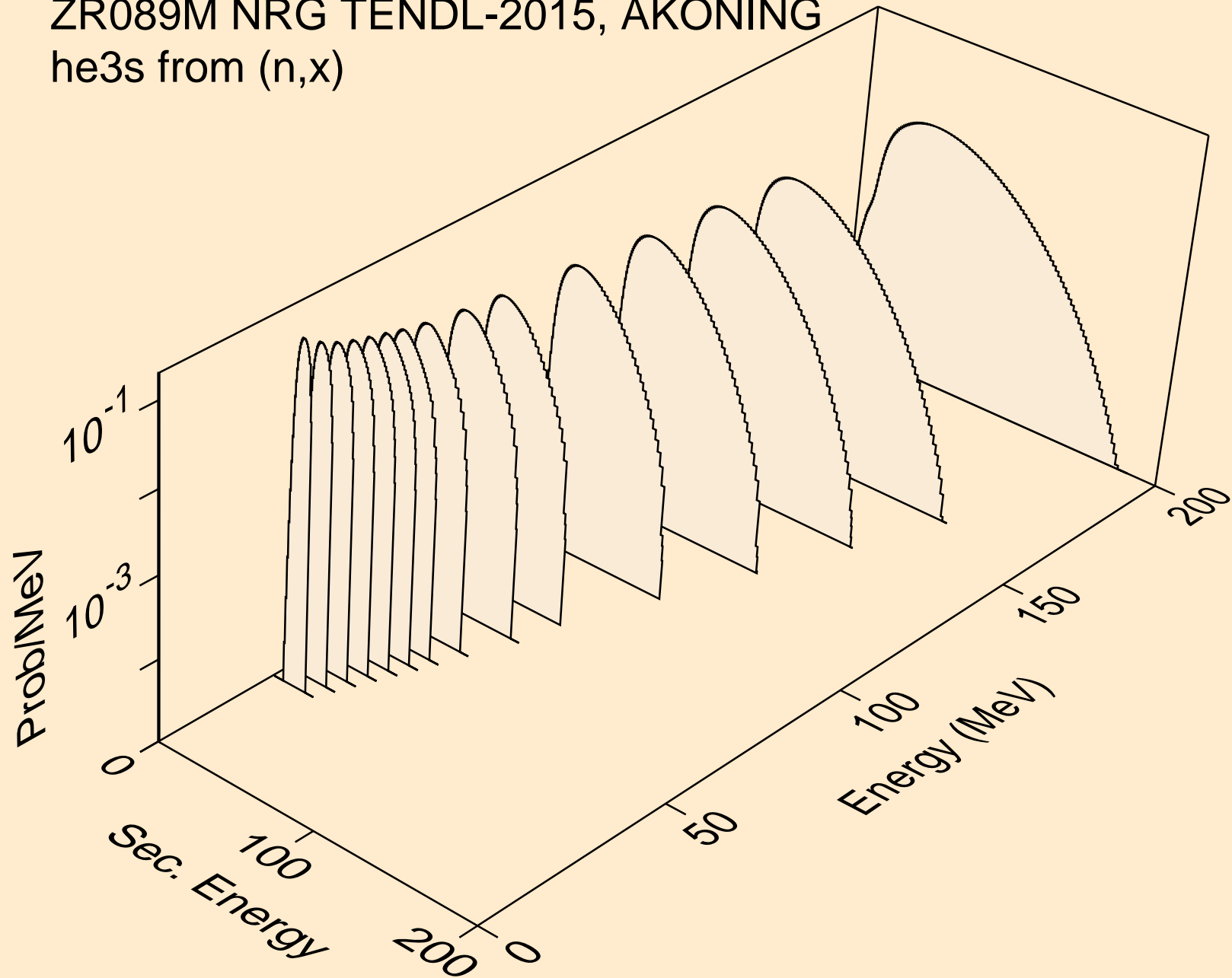
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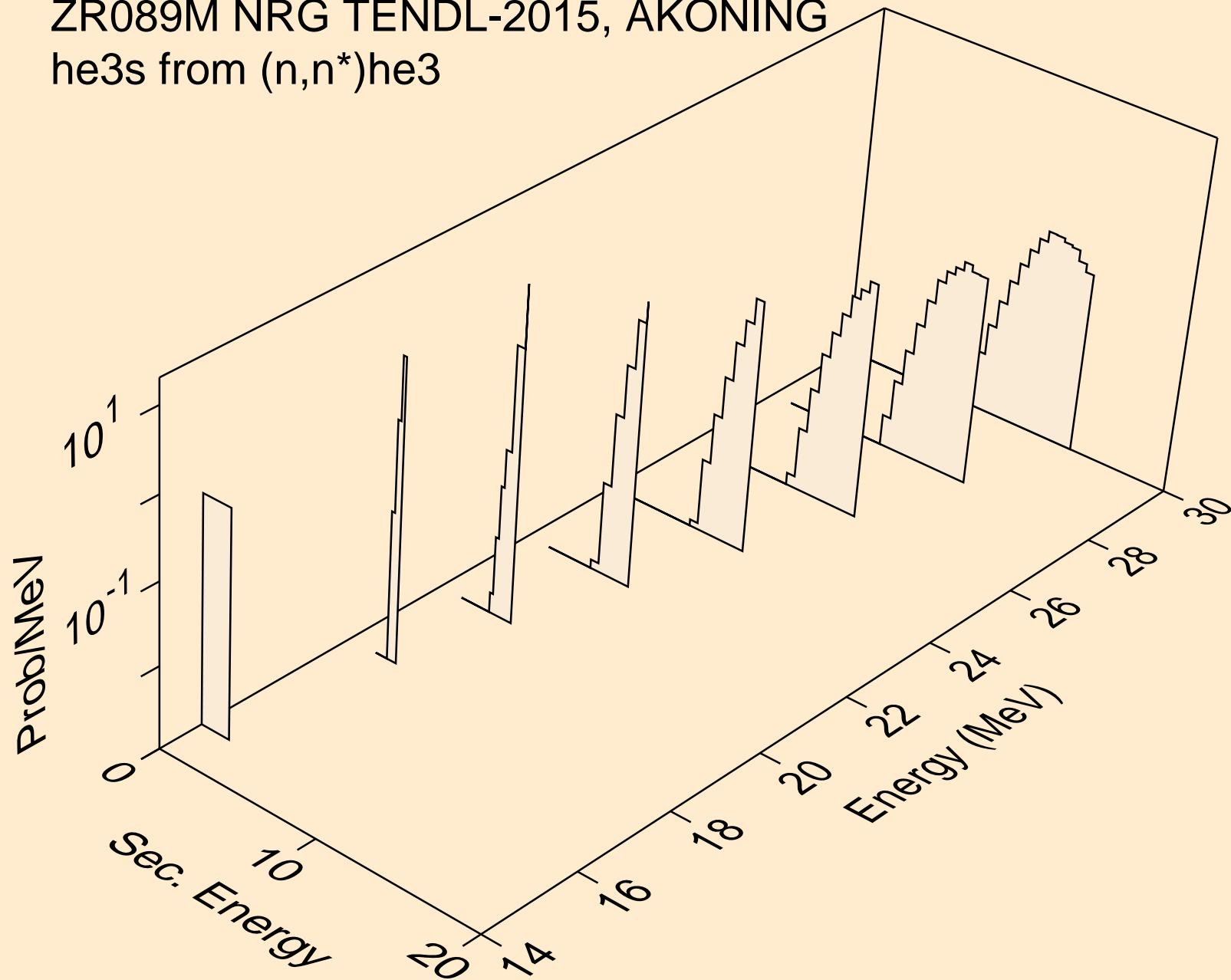
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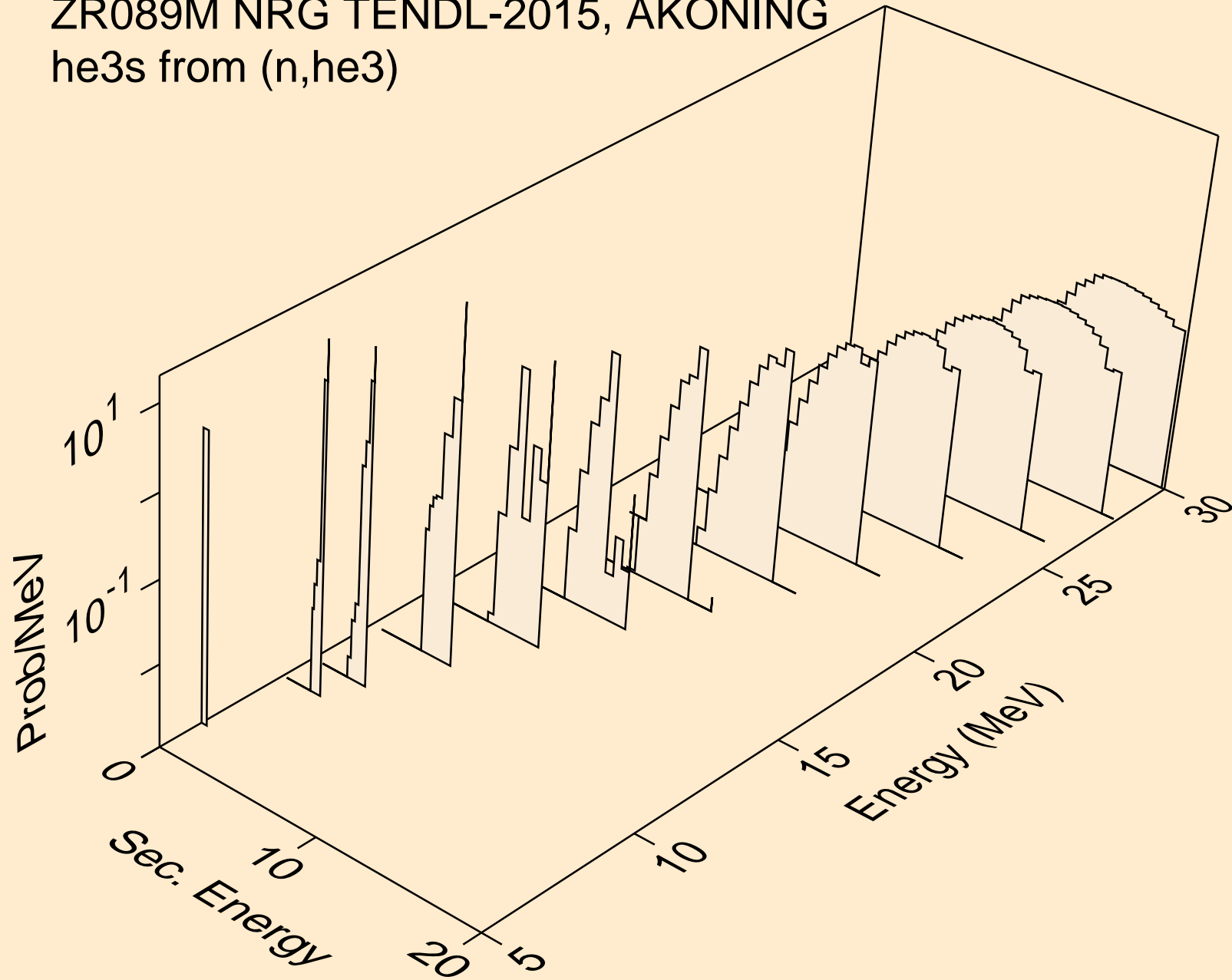
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he3s from (n,x)



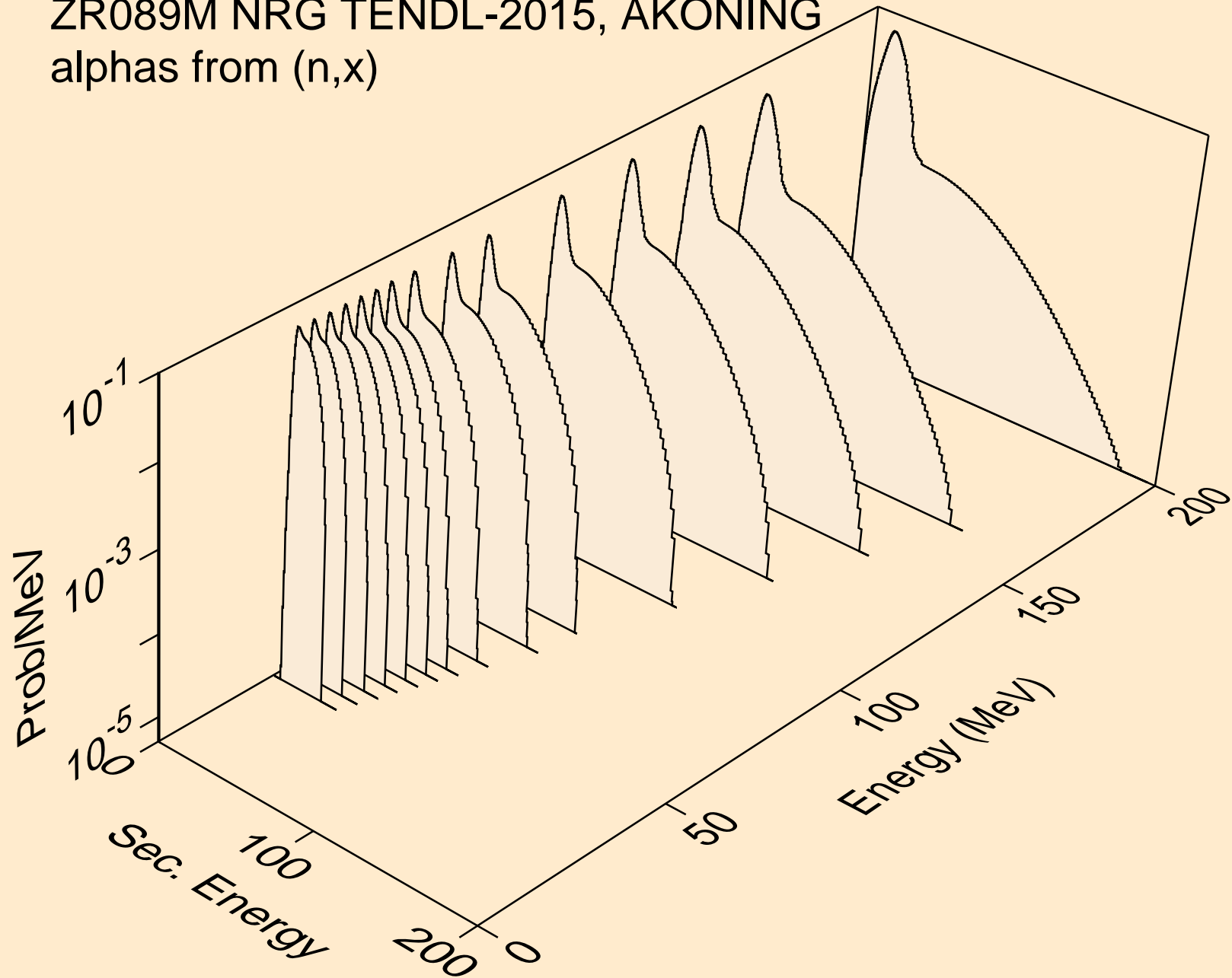
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he3s from (n,n\*)he3



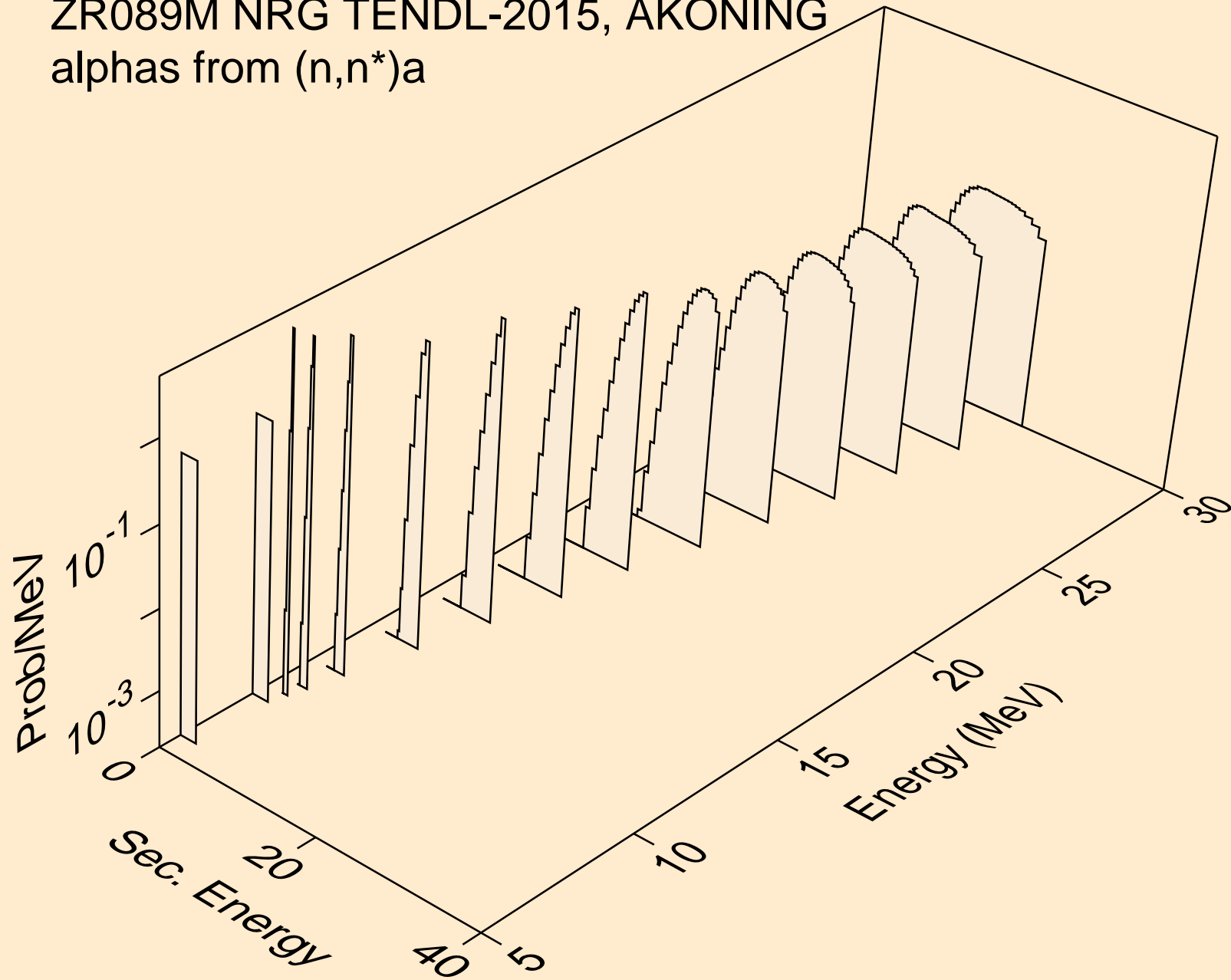
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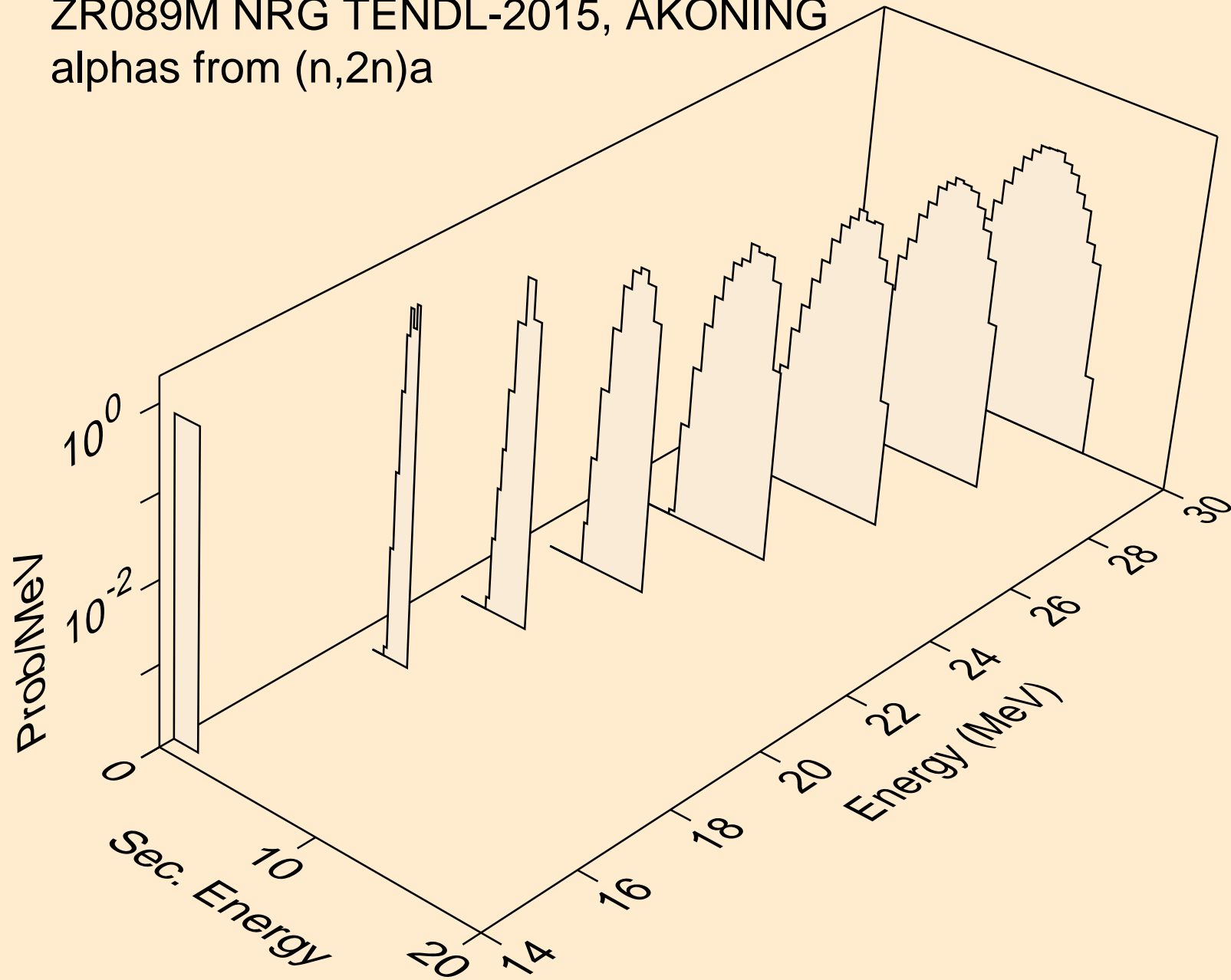
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alphas from (n,x)



ZR089M NRG TENDL-2015, AKONING  
alphas from (n,n\*)a

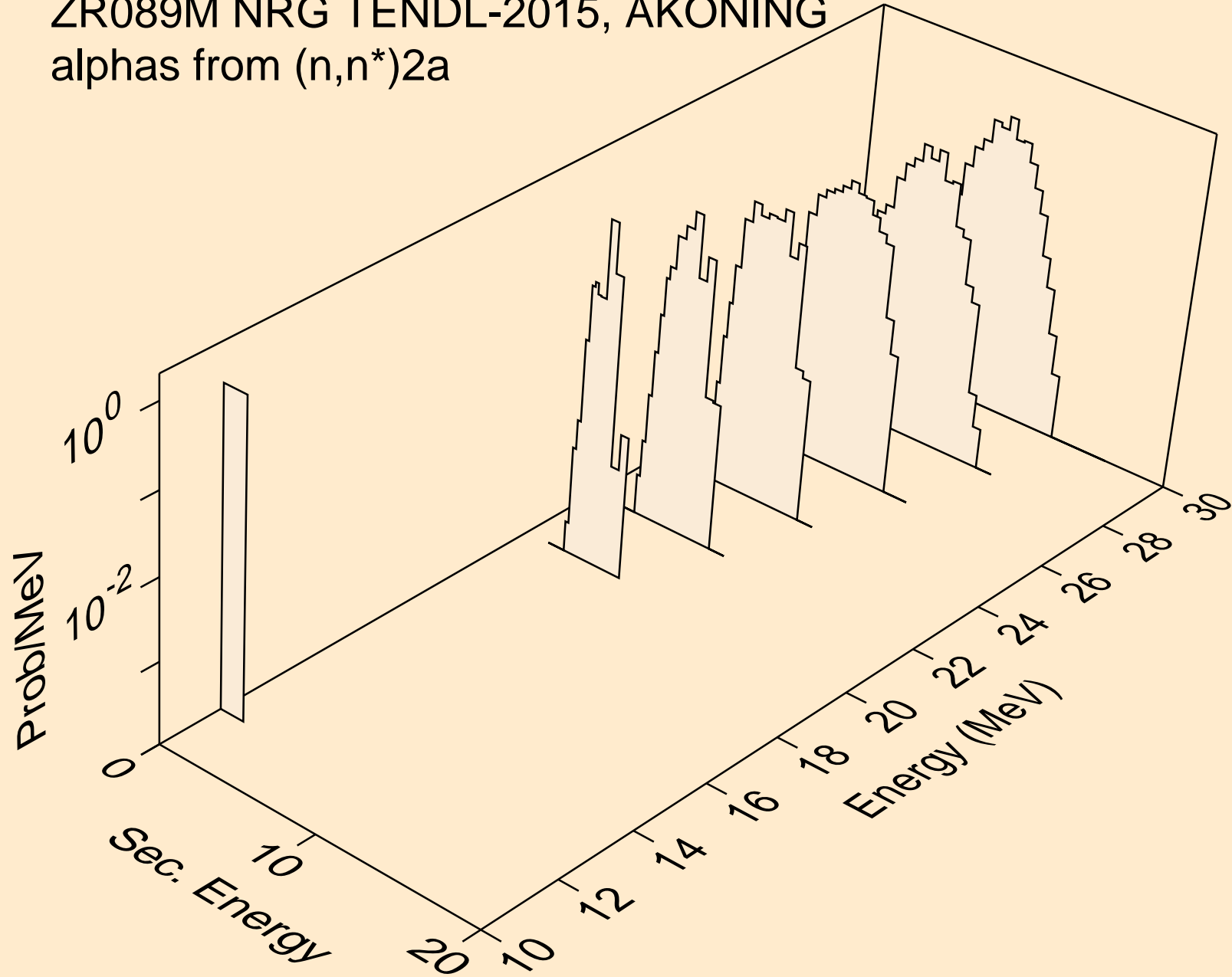


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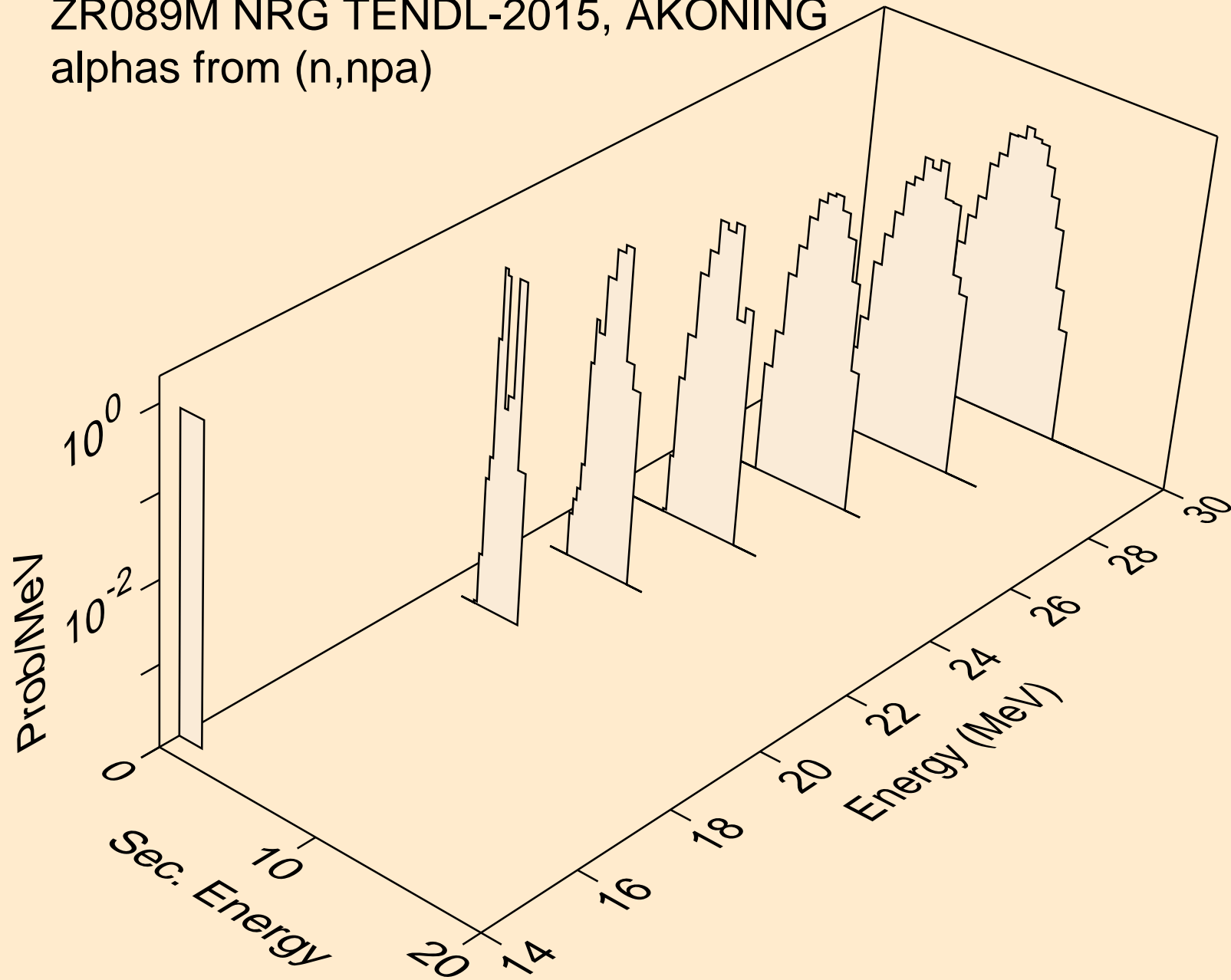




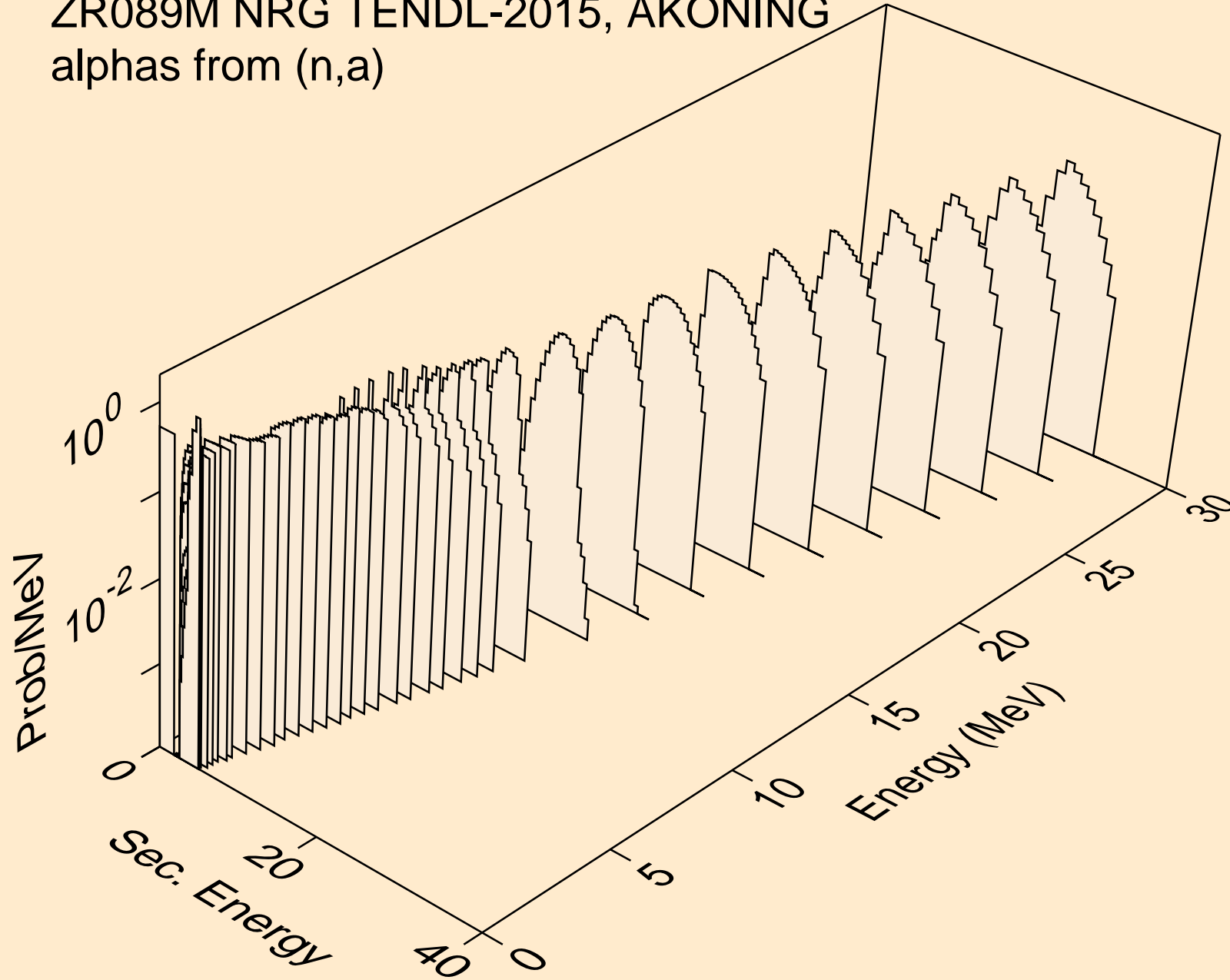
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alphas from (n,n\*)2a



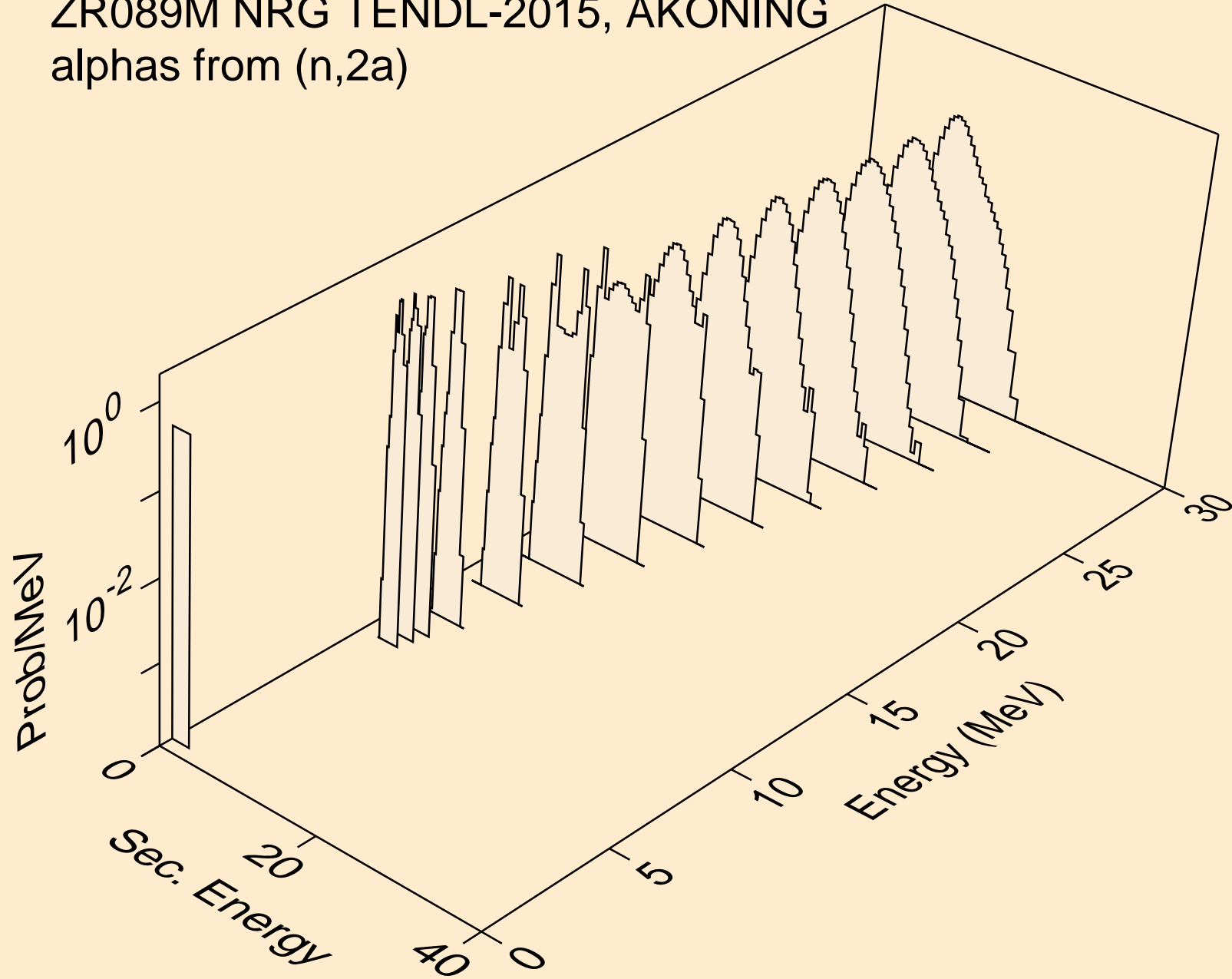
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alphas from (n,npa)



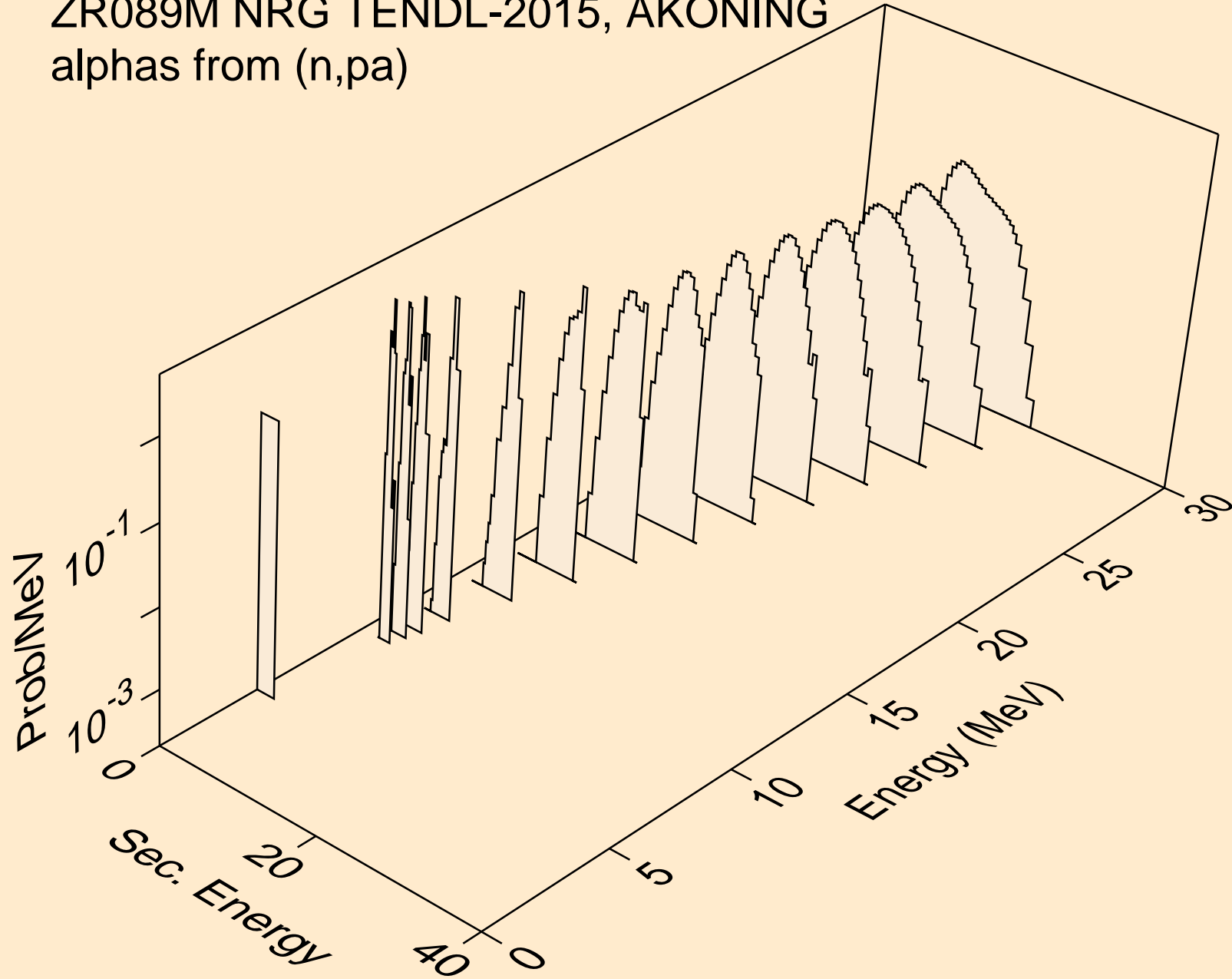
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alphas from (n,a)



ZR089M NRG TENDL-2015, AKONING  
alphas from (n,2a)



ZR089M NRG TENDL-2015, AKONING  
alphas from (n,pa)



ZR089M NRG TENDL-2015, AKONING  
alphas from (n,da)

