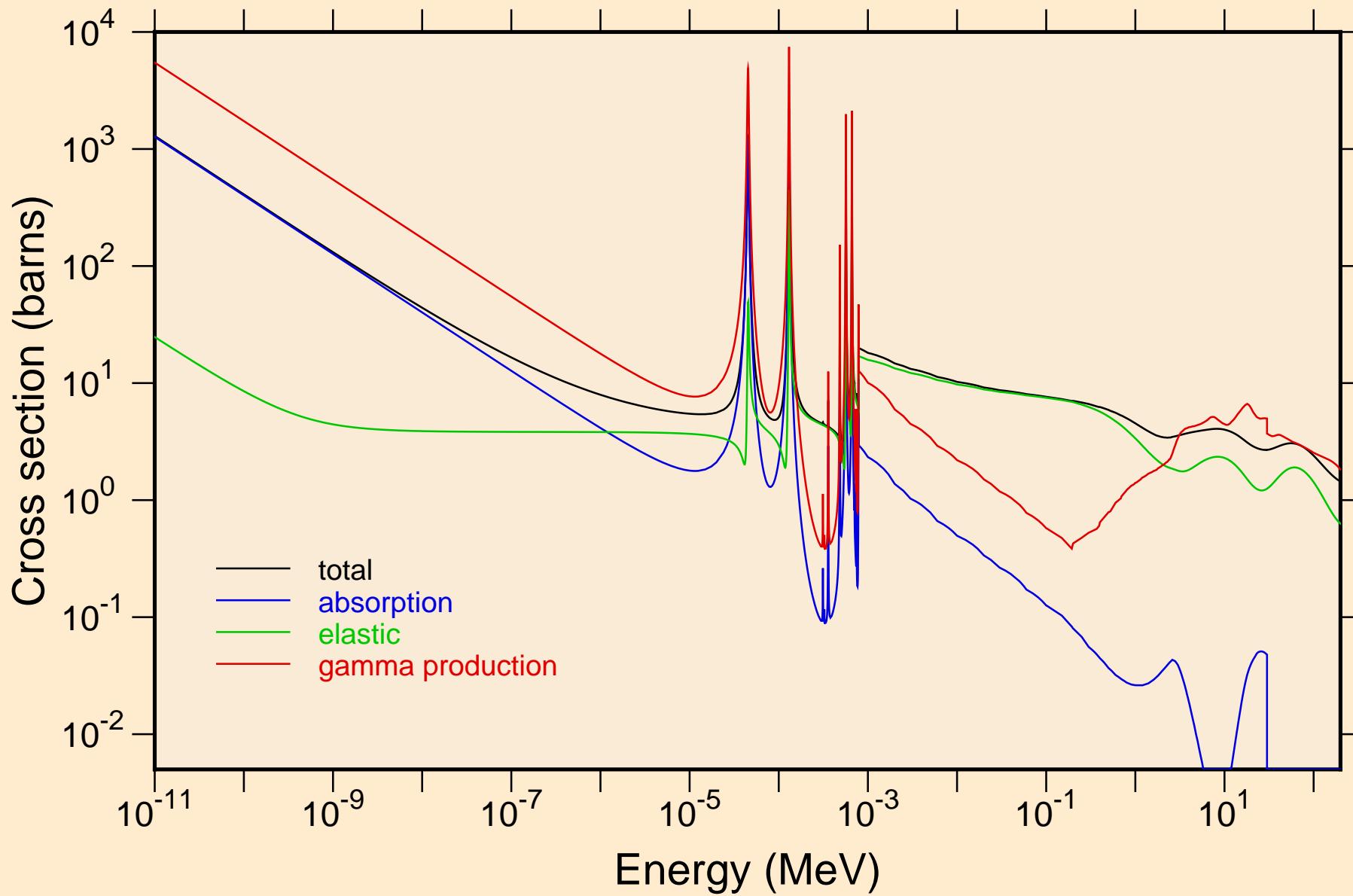
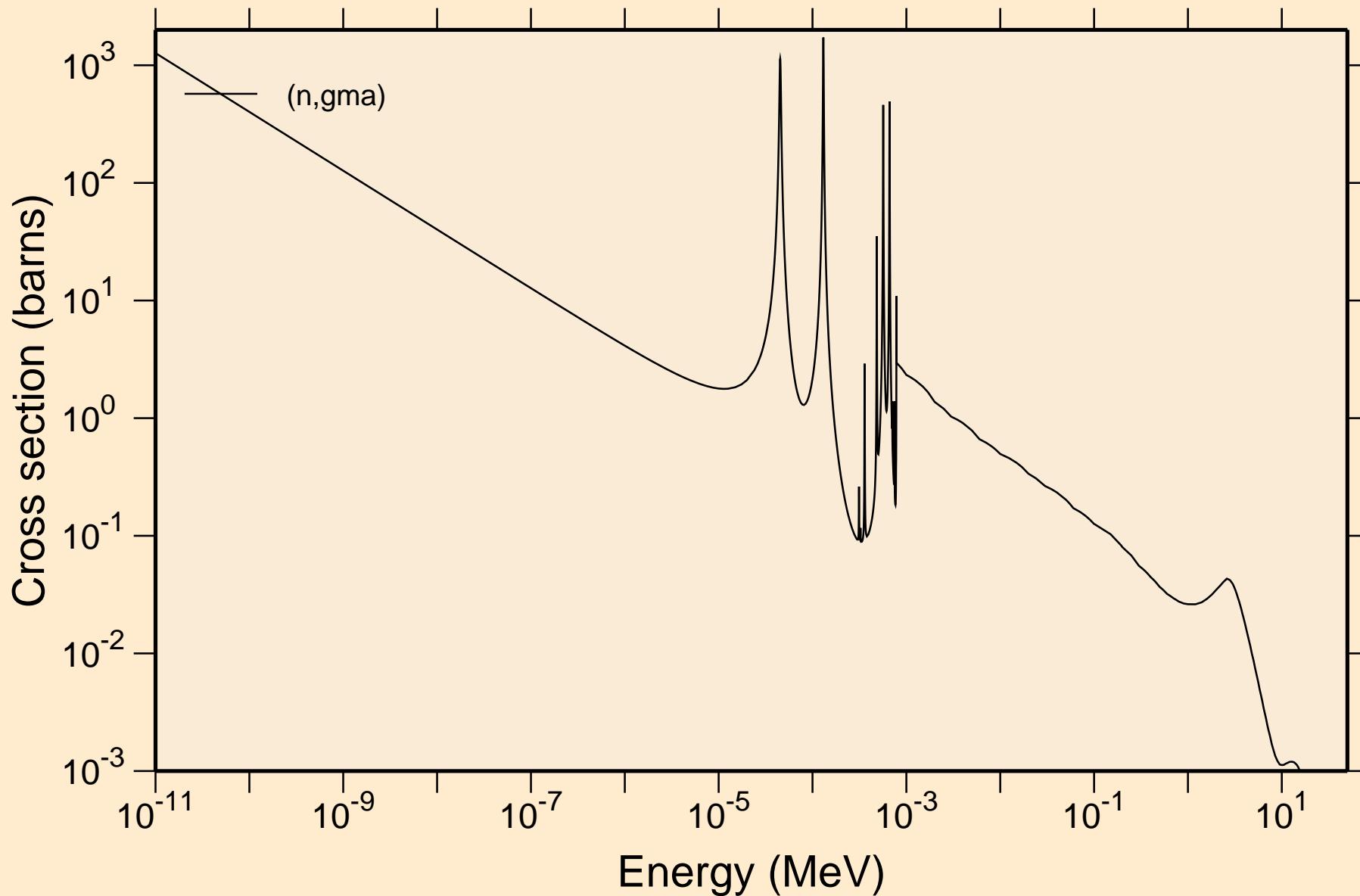


# N-SE081M NRG TENDL-2017, AKONING

## Principal cross sections

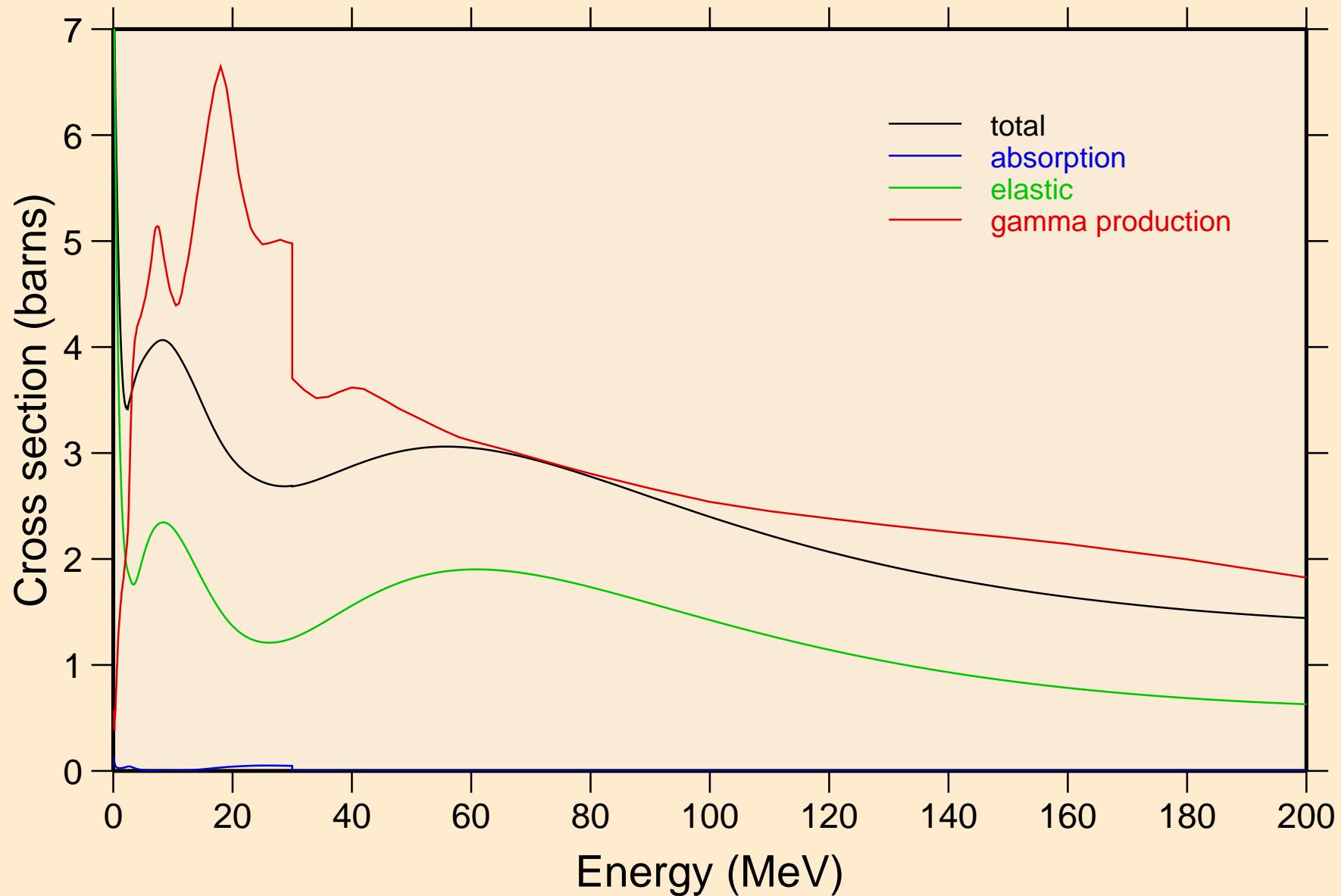


N-SE081M NRG TENDL-2017, AKONING  
Non-threshold reactions

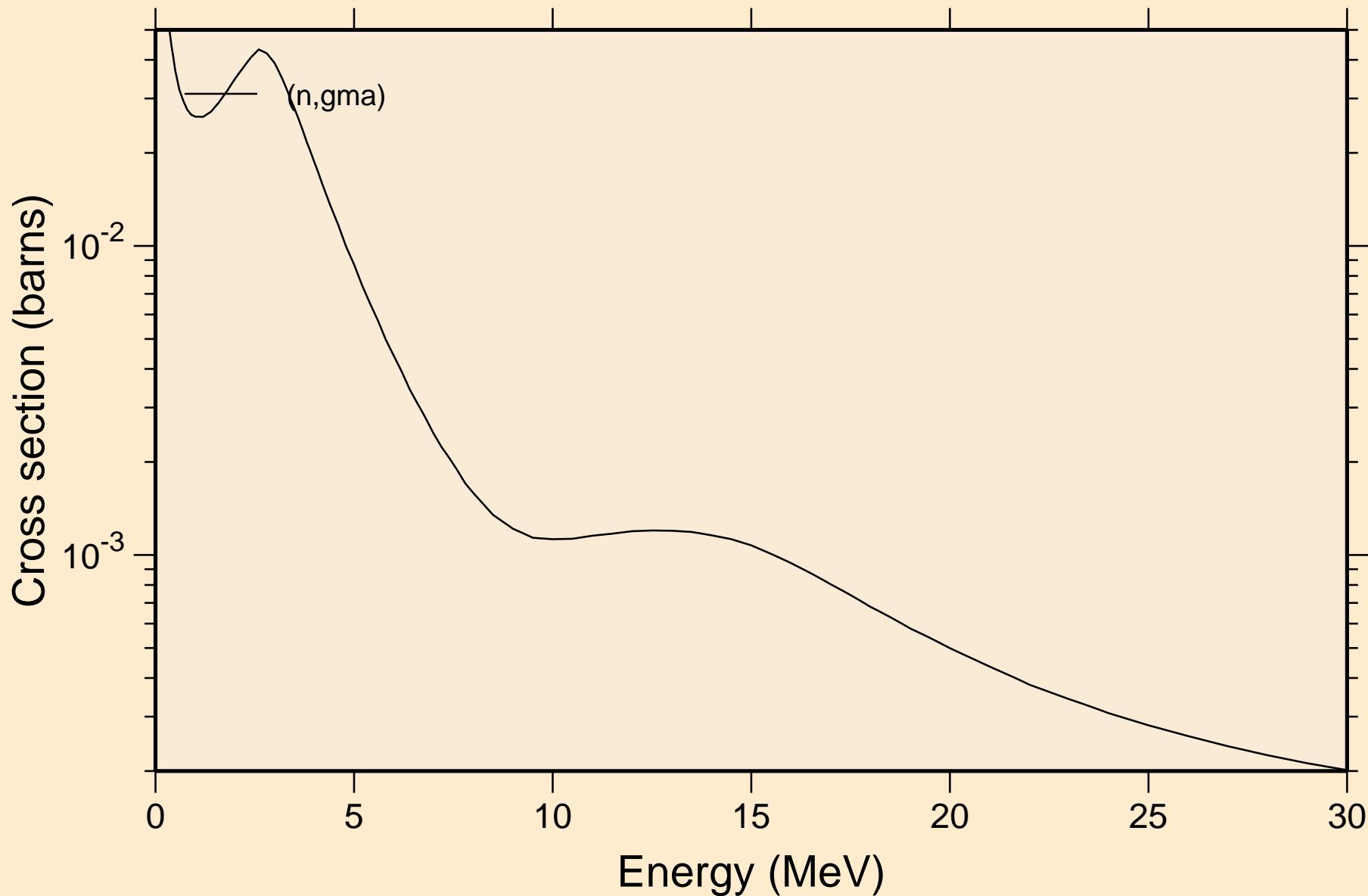


# N-SE081M NRG TENDL-2017, AKONING

## Principal cross sections

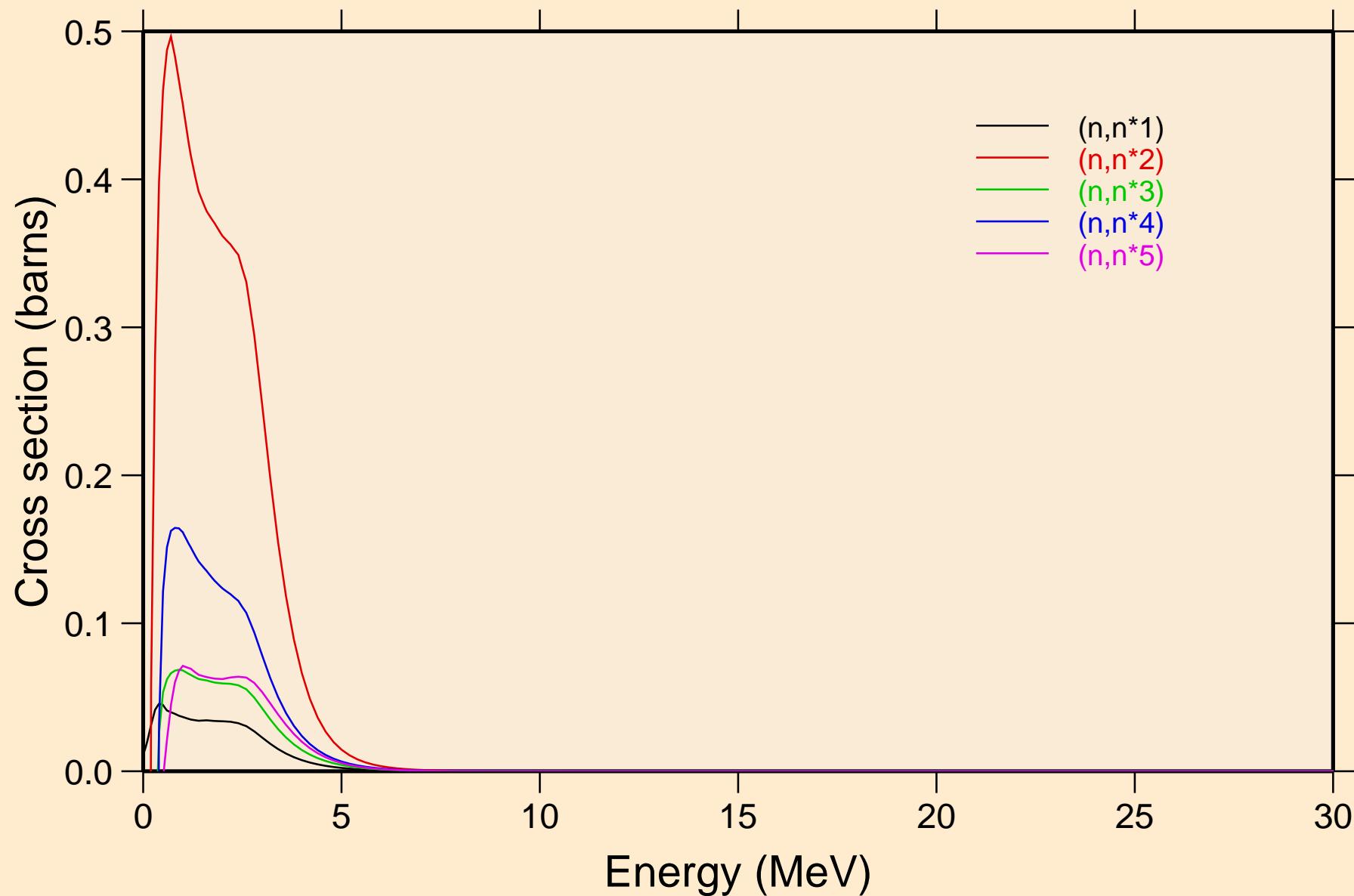


N-SE081M NRG TENDL-2017, AKONING  
Non-threshold reactions



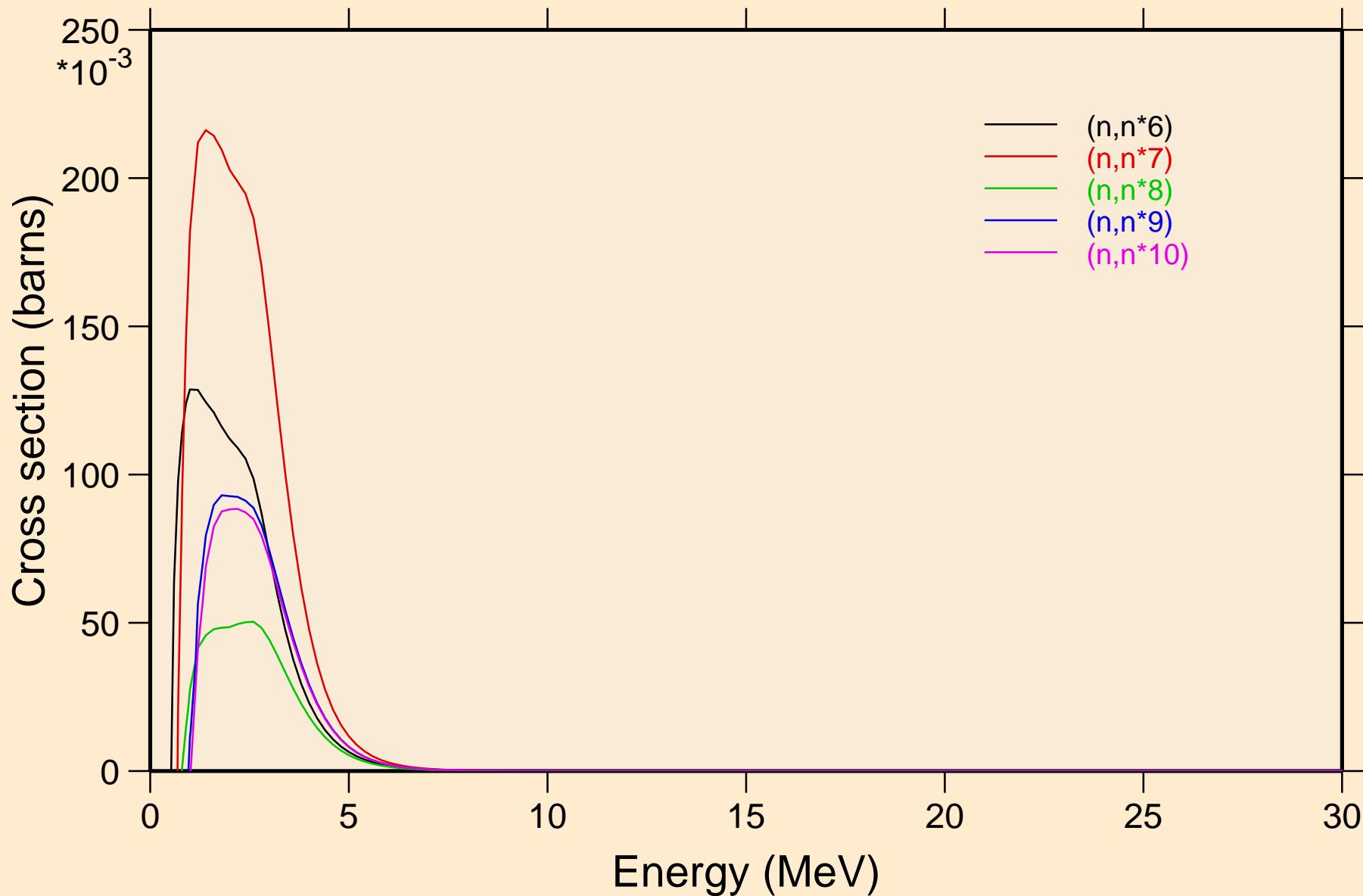
# N-SE081M NRG TENDL-2017, AKONING

## Inelastic levels



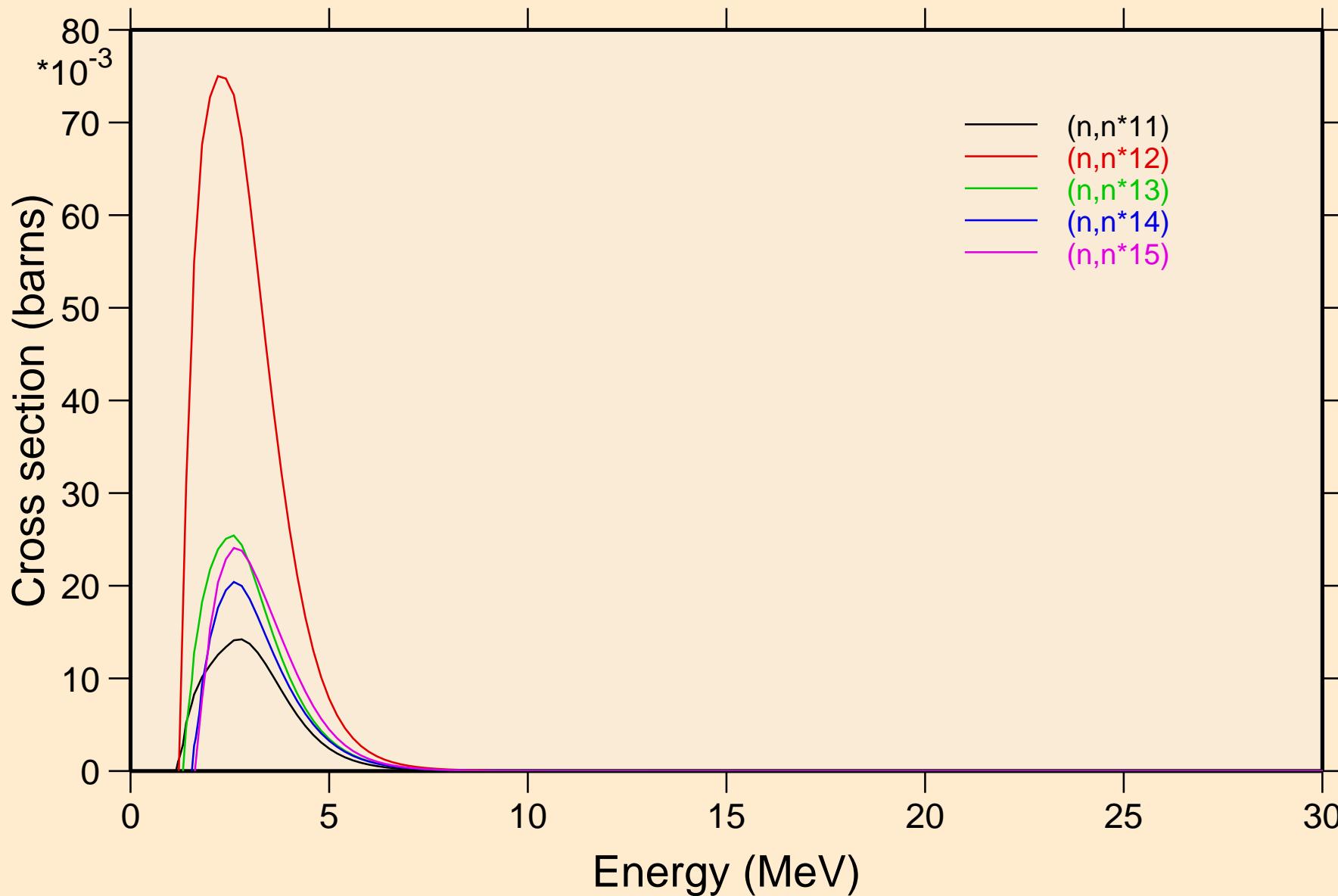
# N-SE081M NRG TENDL-2017, AKONING

## Inelastic levels



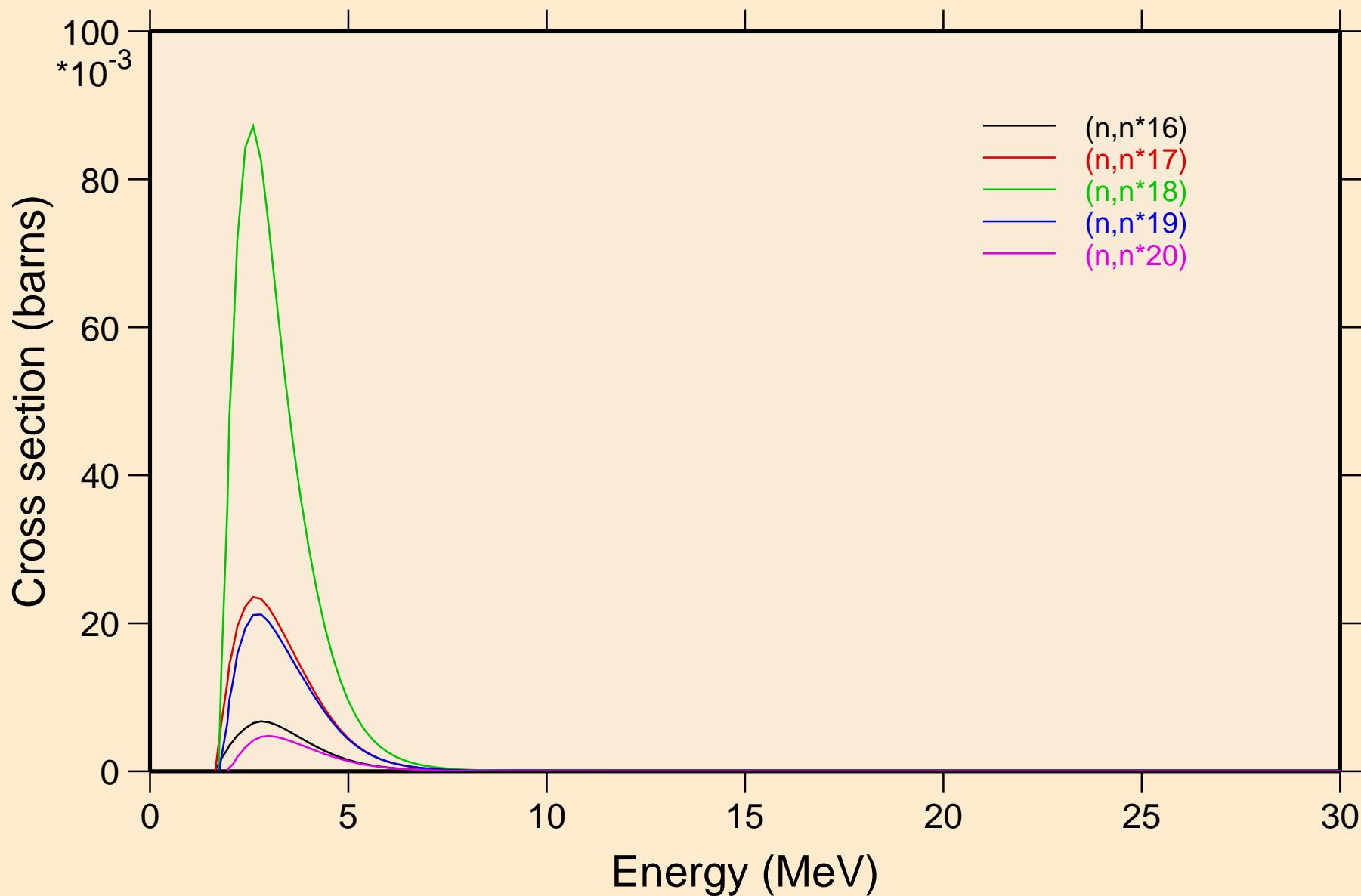
# N-SE081M NRG TENDL-2017, AKONING

## Inelastic levels



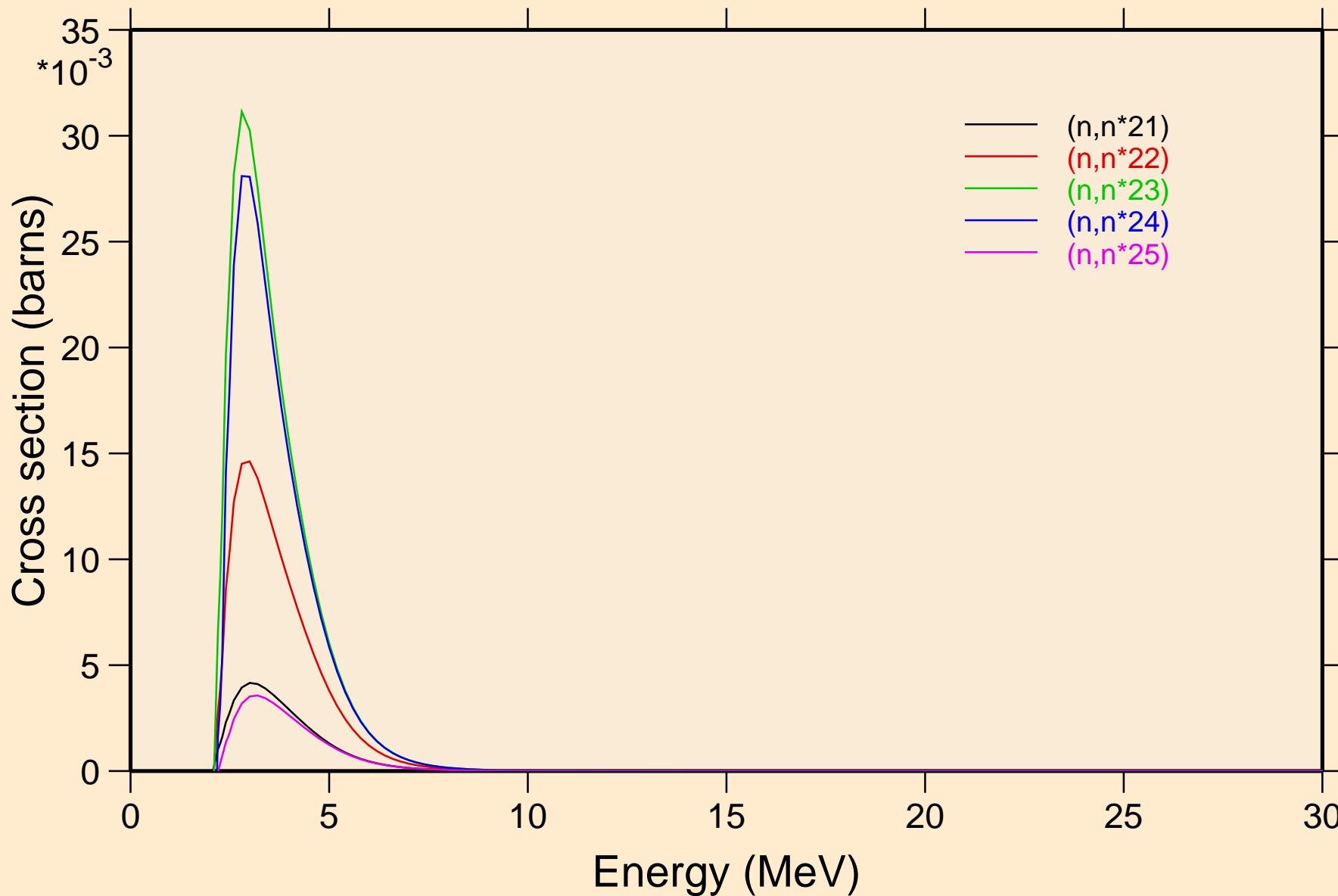
# N-SE081M NRG TENDL-2017, AKONING

## Inelastic levels

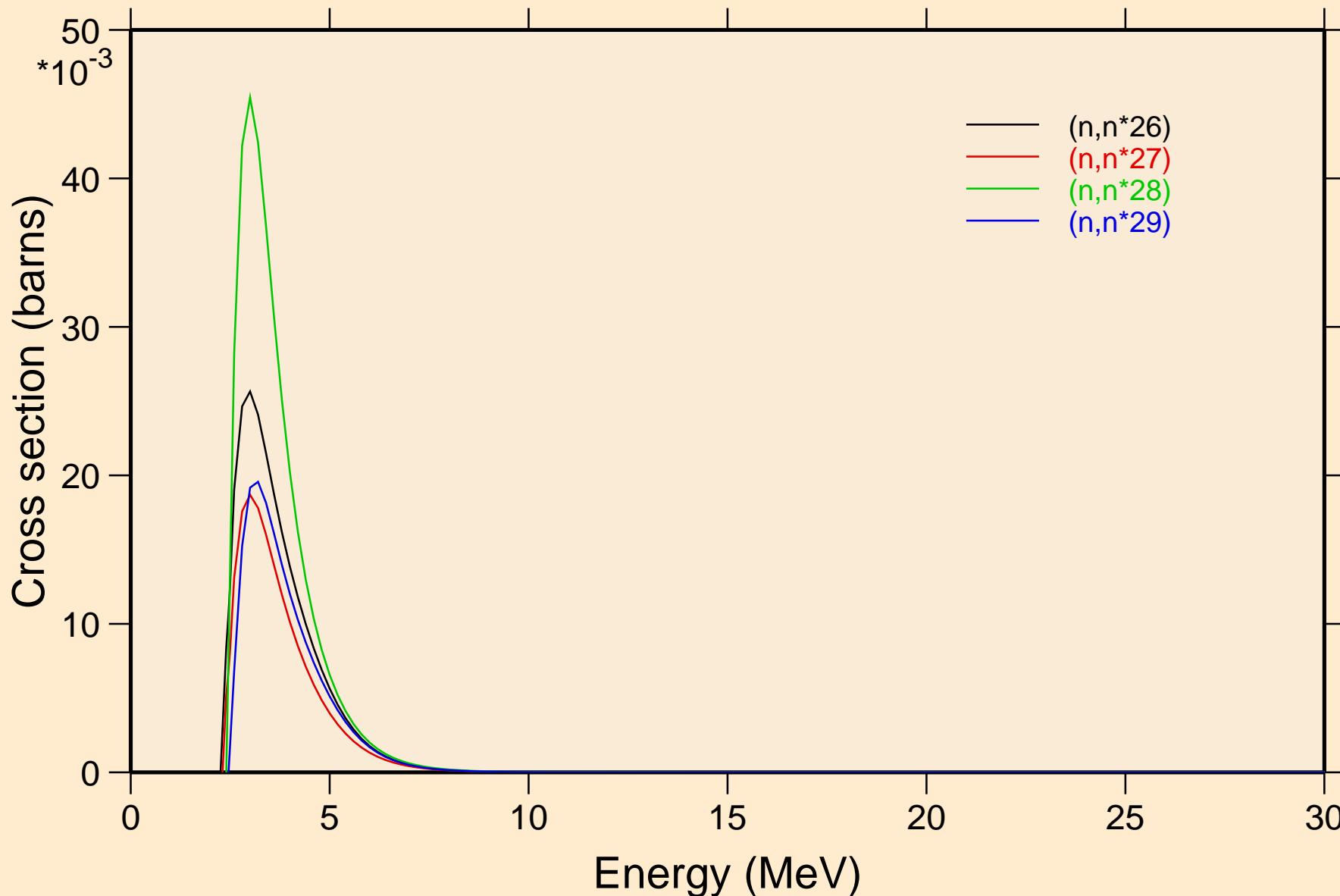


# N-SE081M NRG TENDL-2017, AKONING

## Inelastic levels

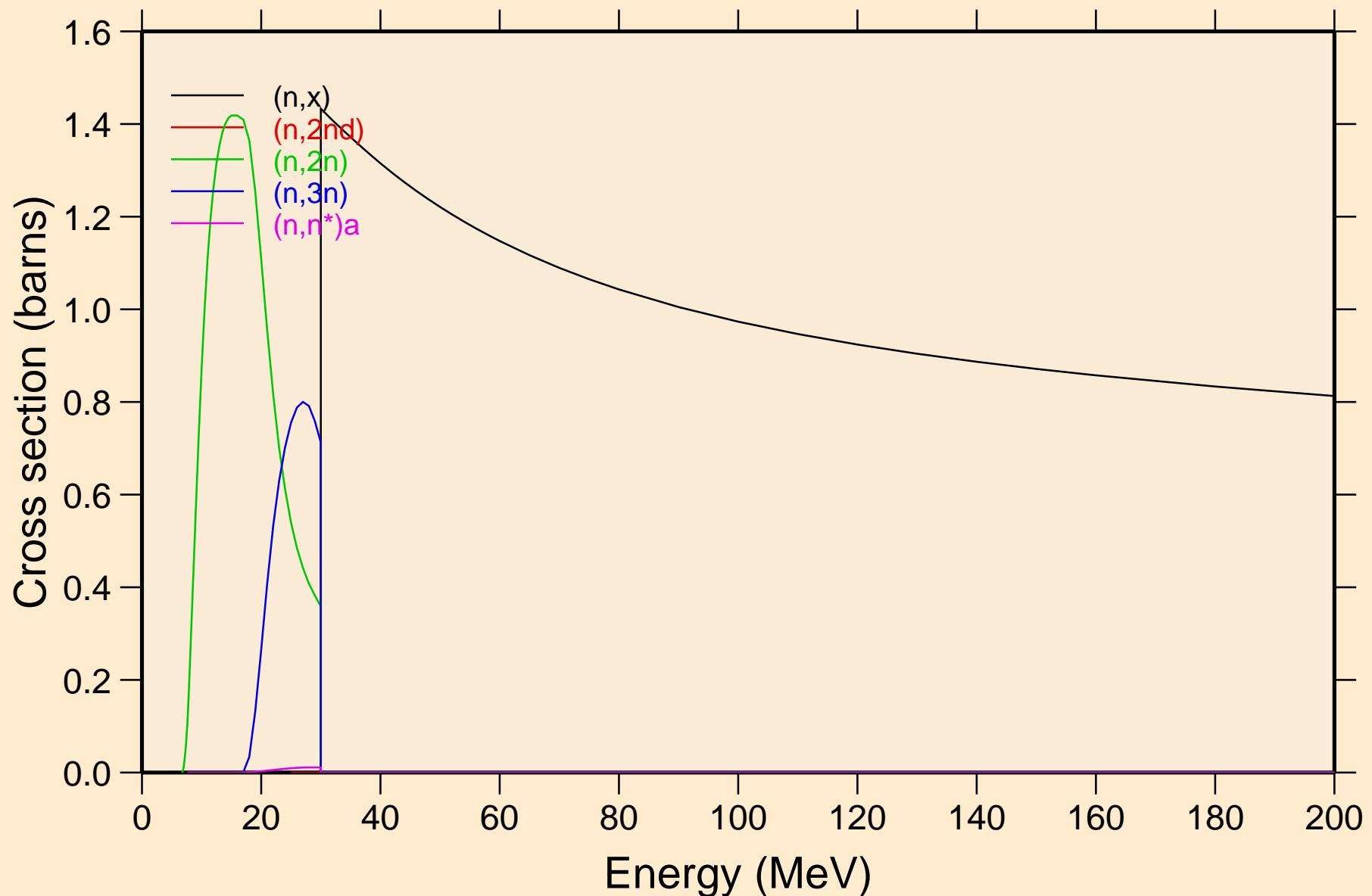


N-SE081M NRG TENDL-2017, AKONING  
Inelastic levels



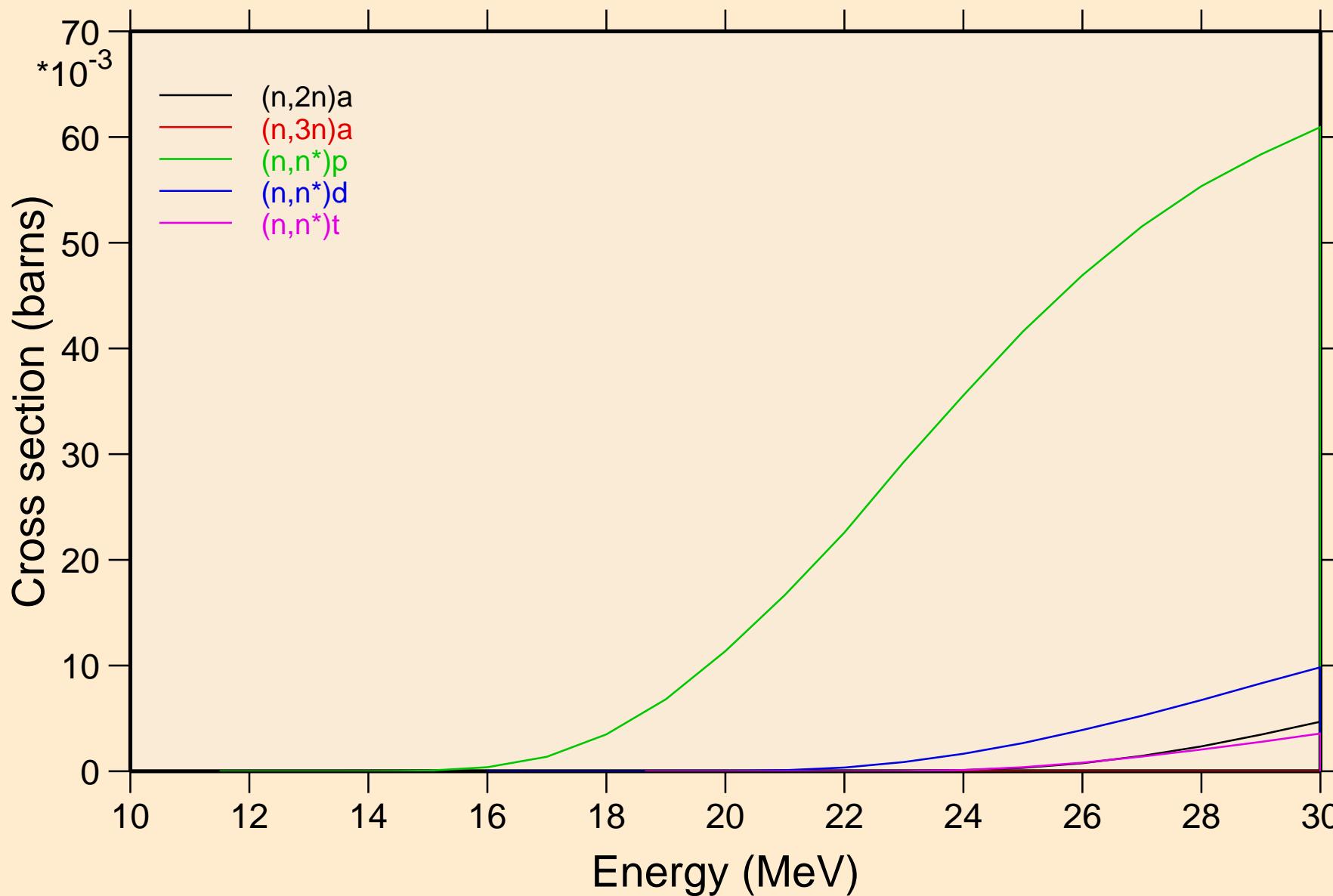
# N-SE081M NRG TENDL-2017, AKONING

## Threshold reactions



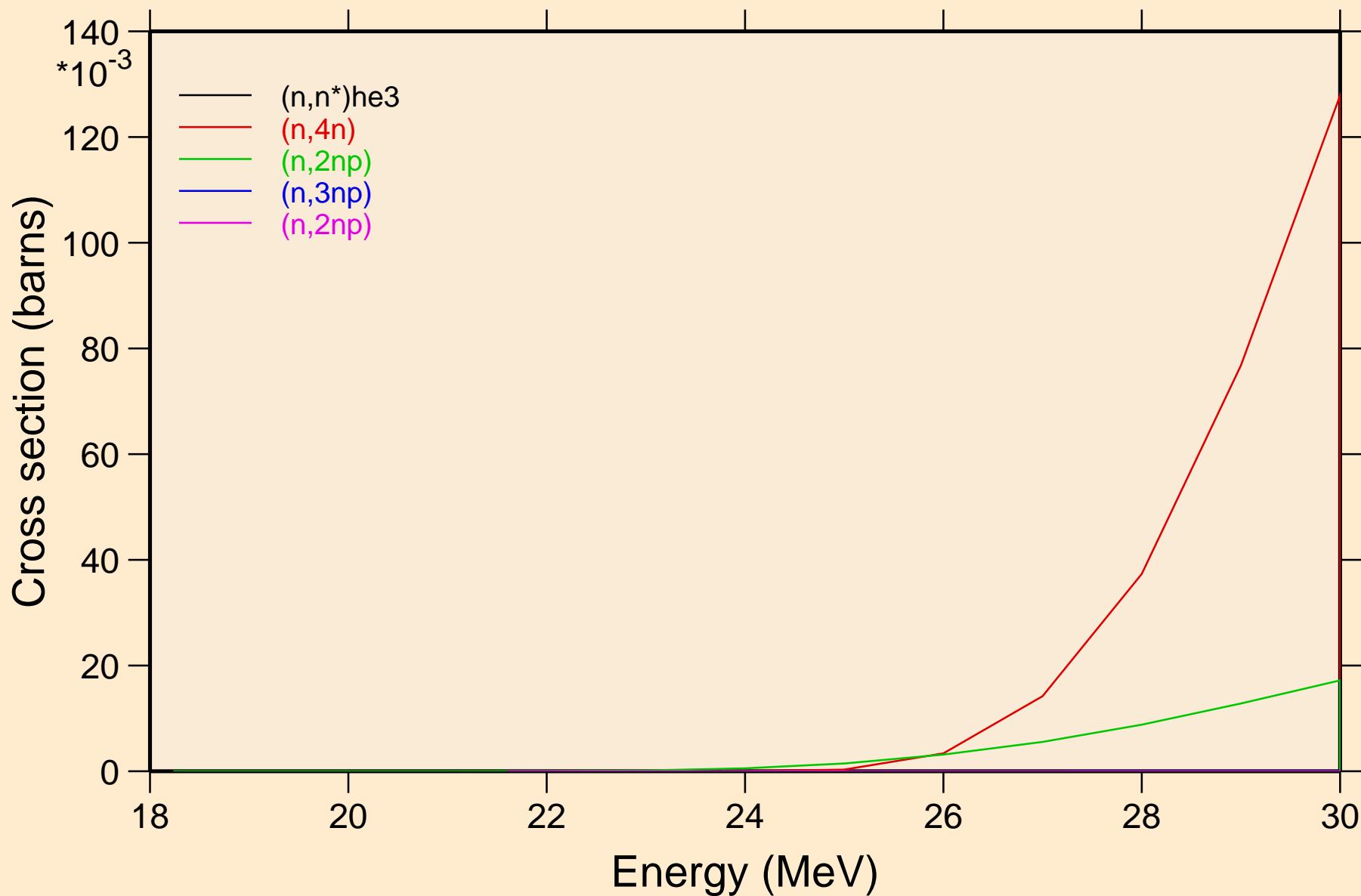
# N-SE081M NRG TENDL-2017, AKONING

## Threshold reactions



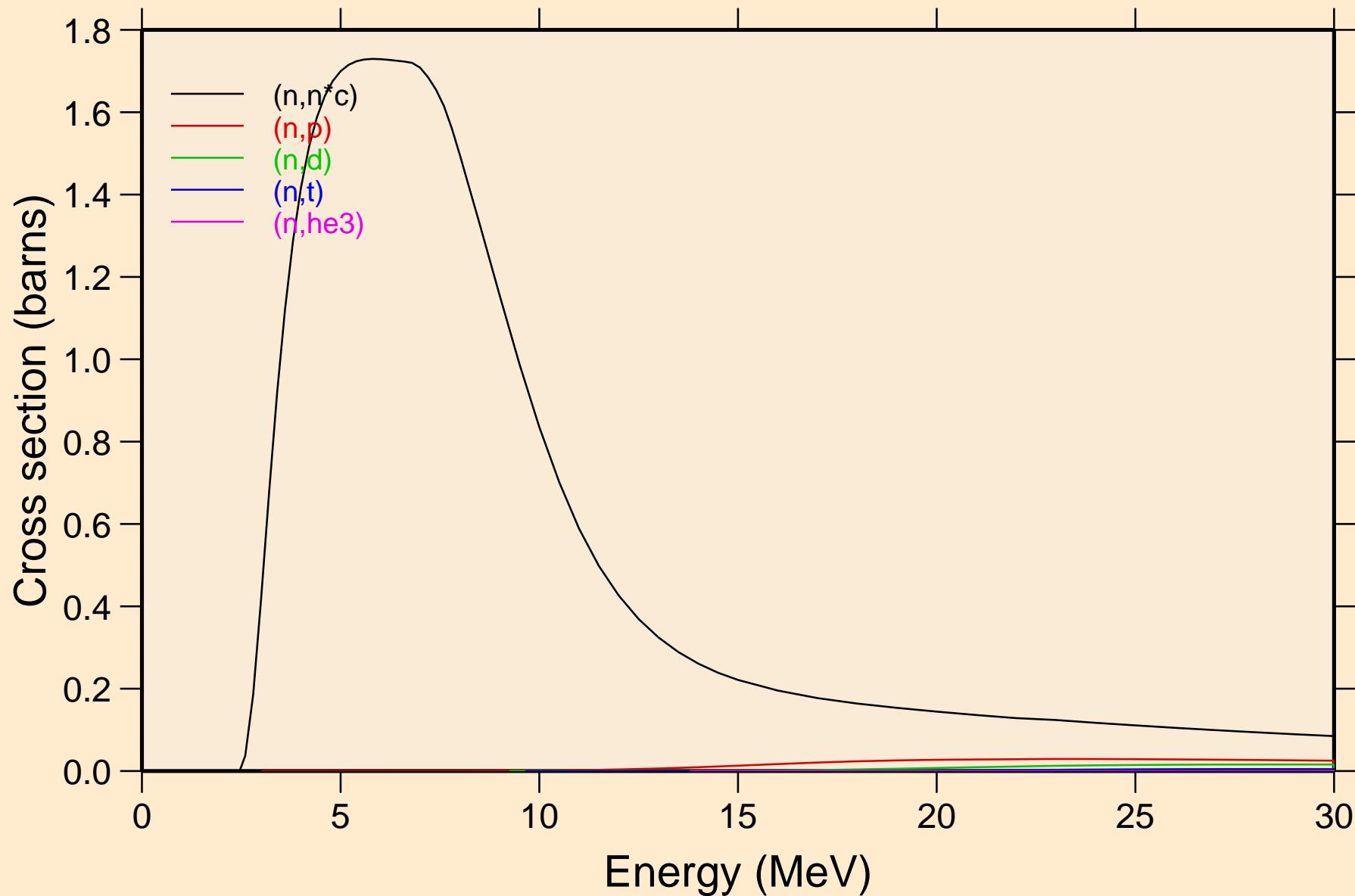
# N-SE081M NRG TENDL-2017, AKONING

## Threshold reactions



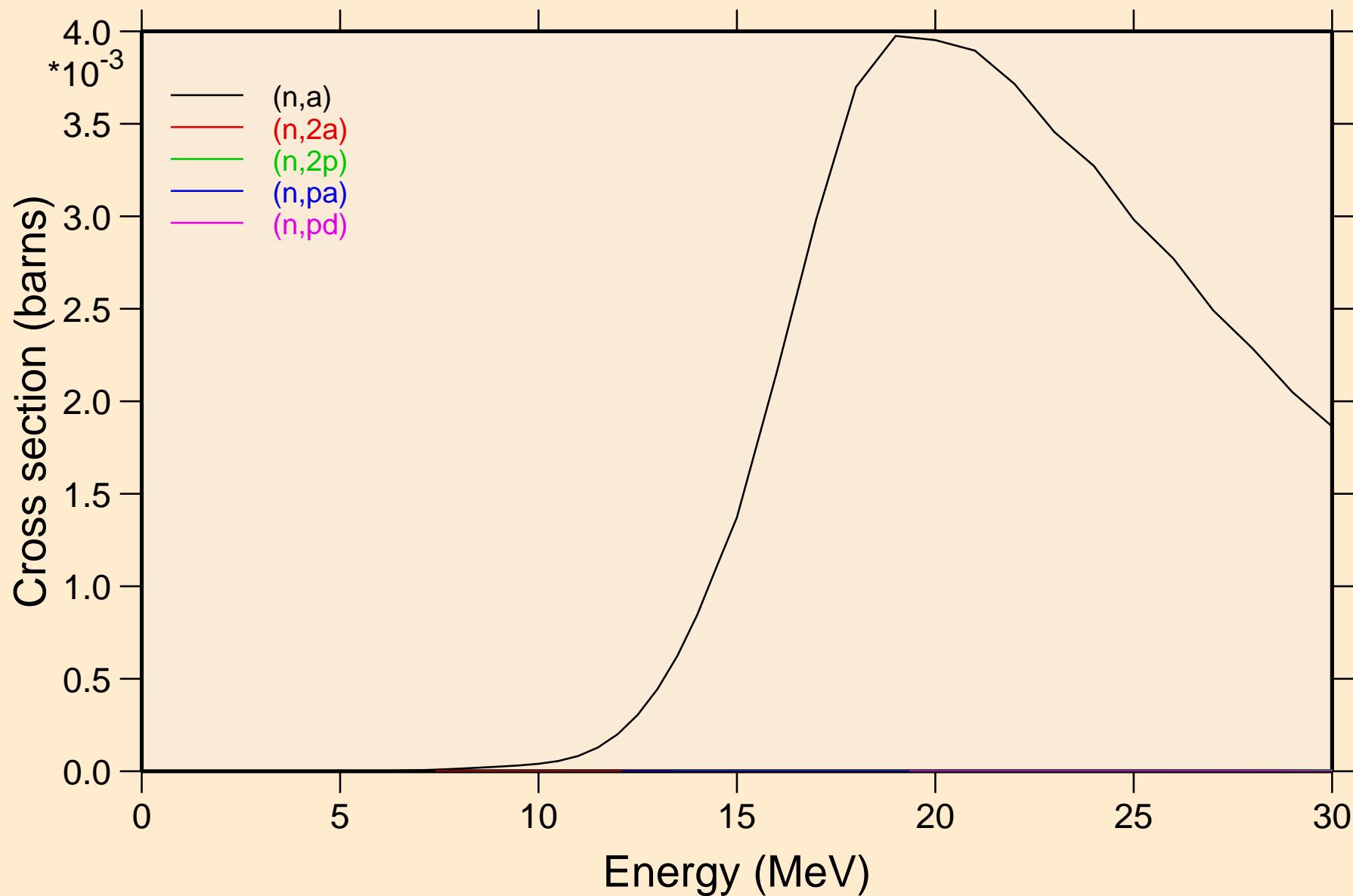
# N-SE081M NRG TENDL-2017, AKONING

## Threshold reactions

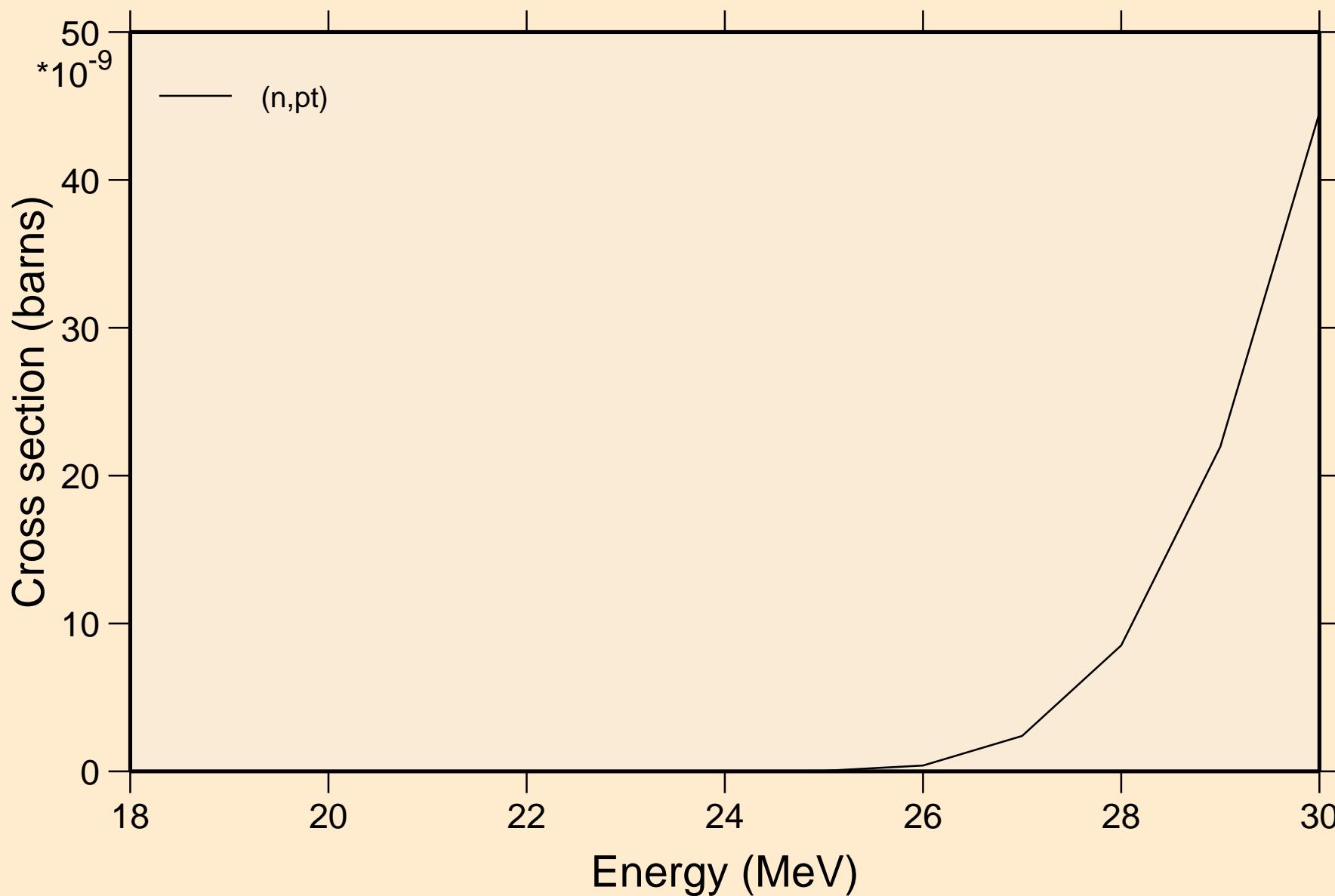


# N-SE081M NRG TENDL-2017, AKONING

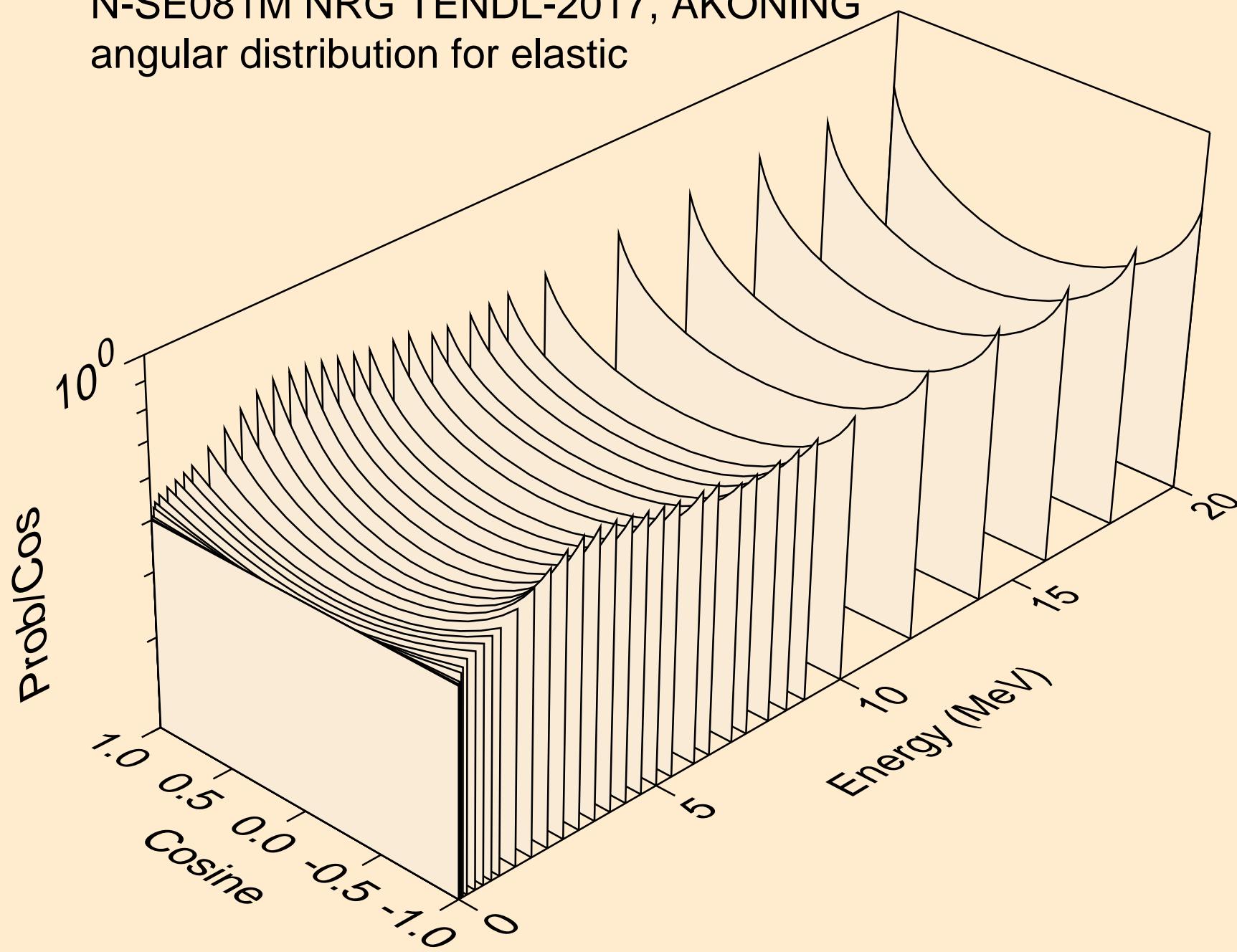
## Threshold reactions



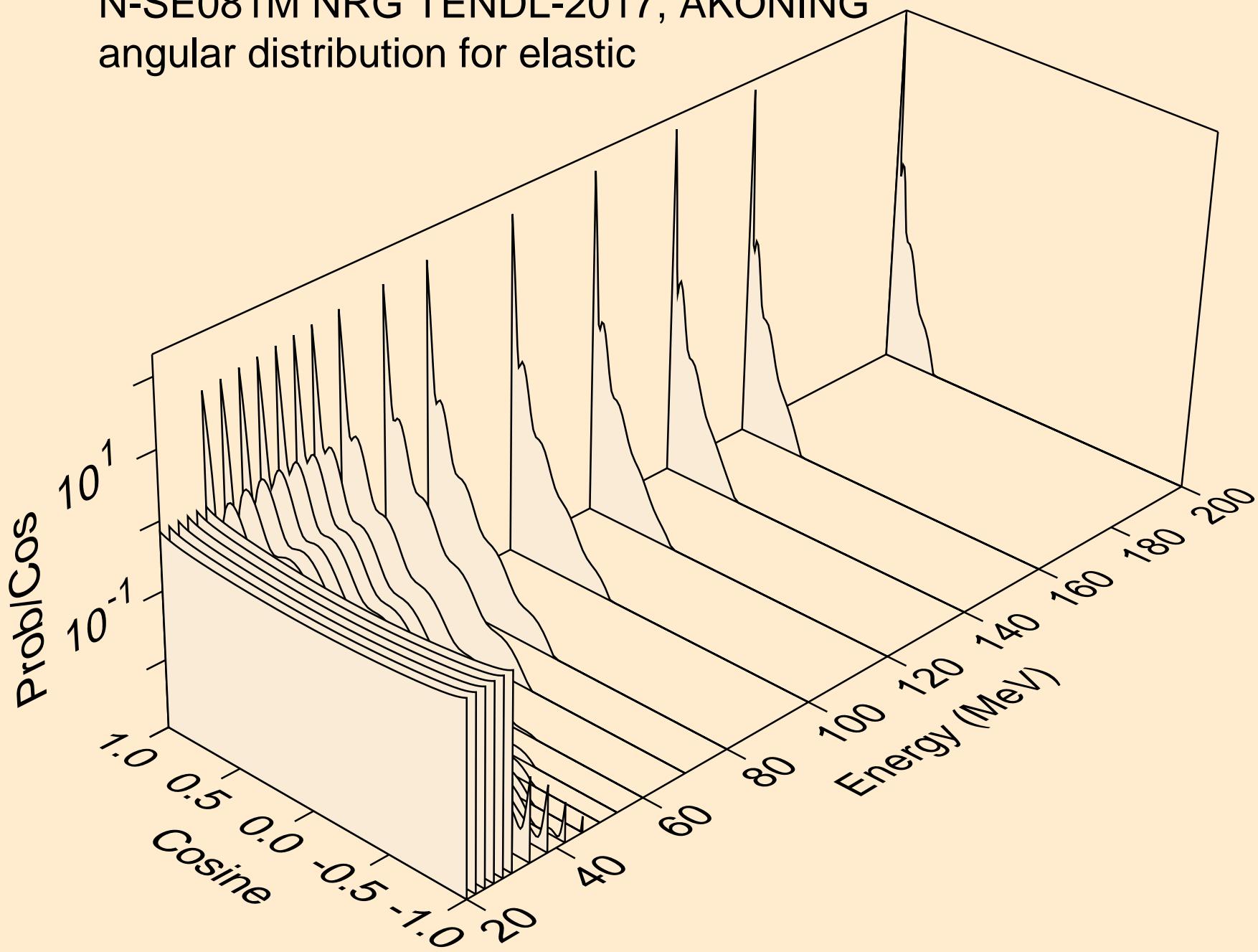
N-SE081M NRG TENDL-2017, AKONING  
Threshold reactions



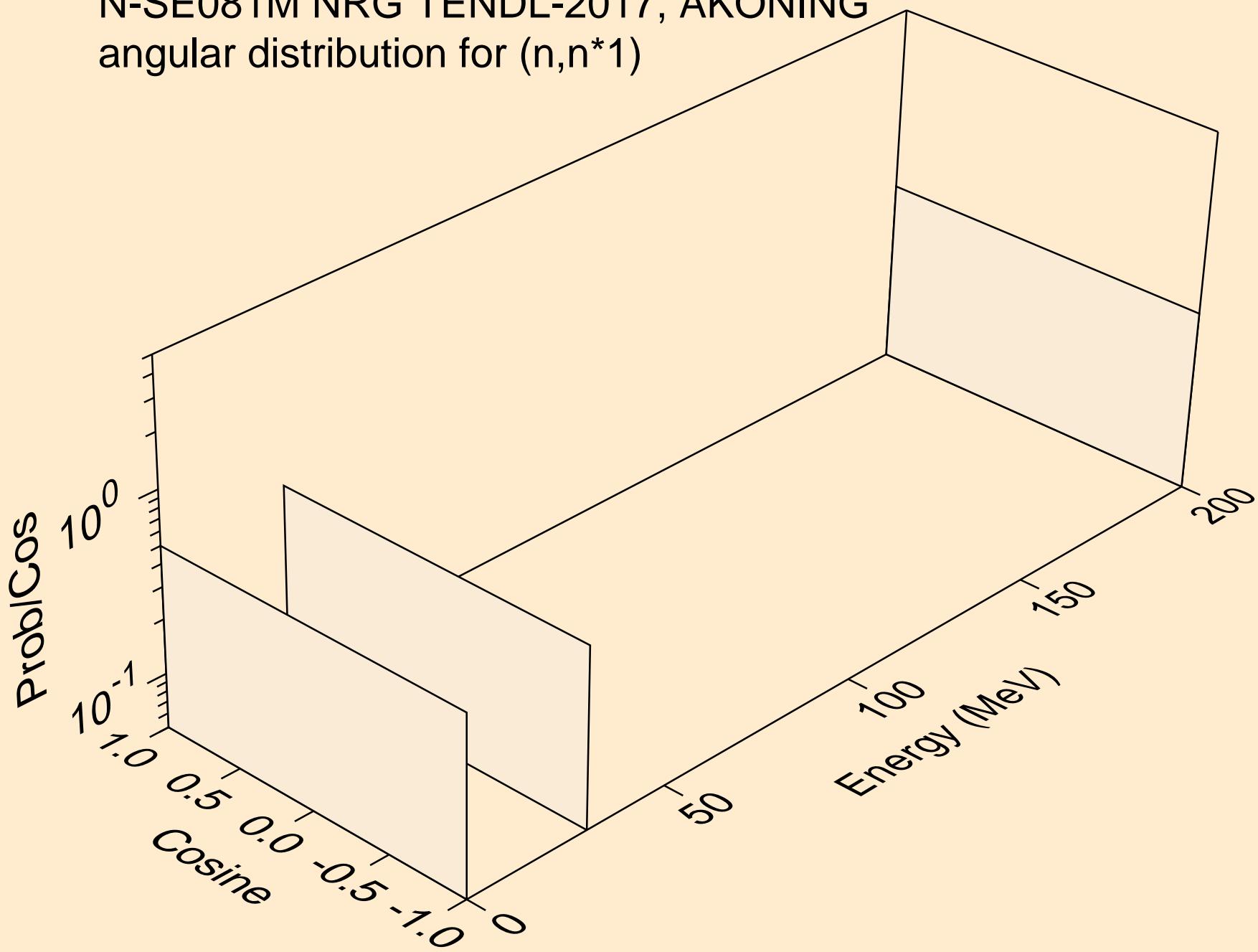
N-SE081M NRG TENDL-2017, AKONING  
angular distribution for elastic



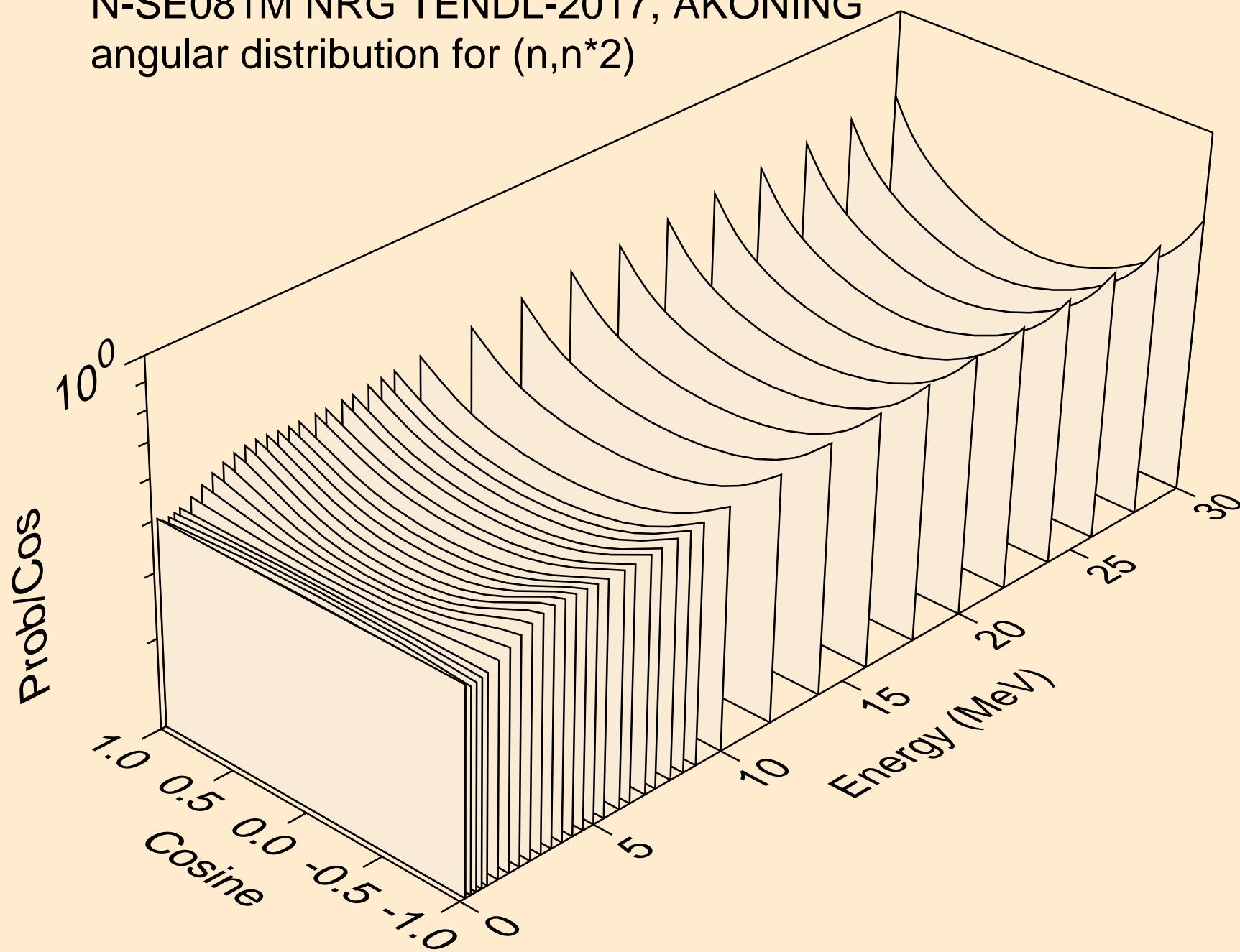
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angular distribution for elastic



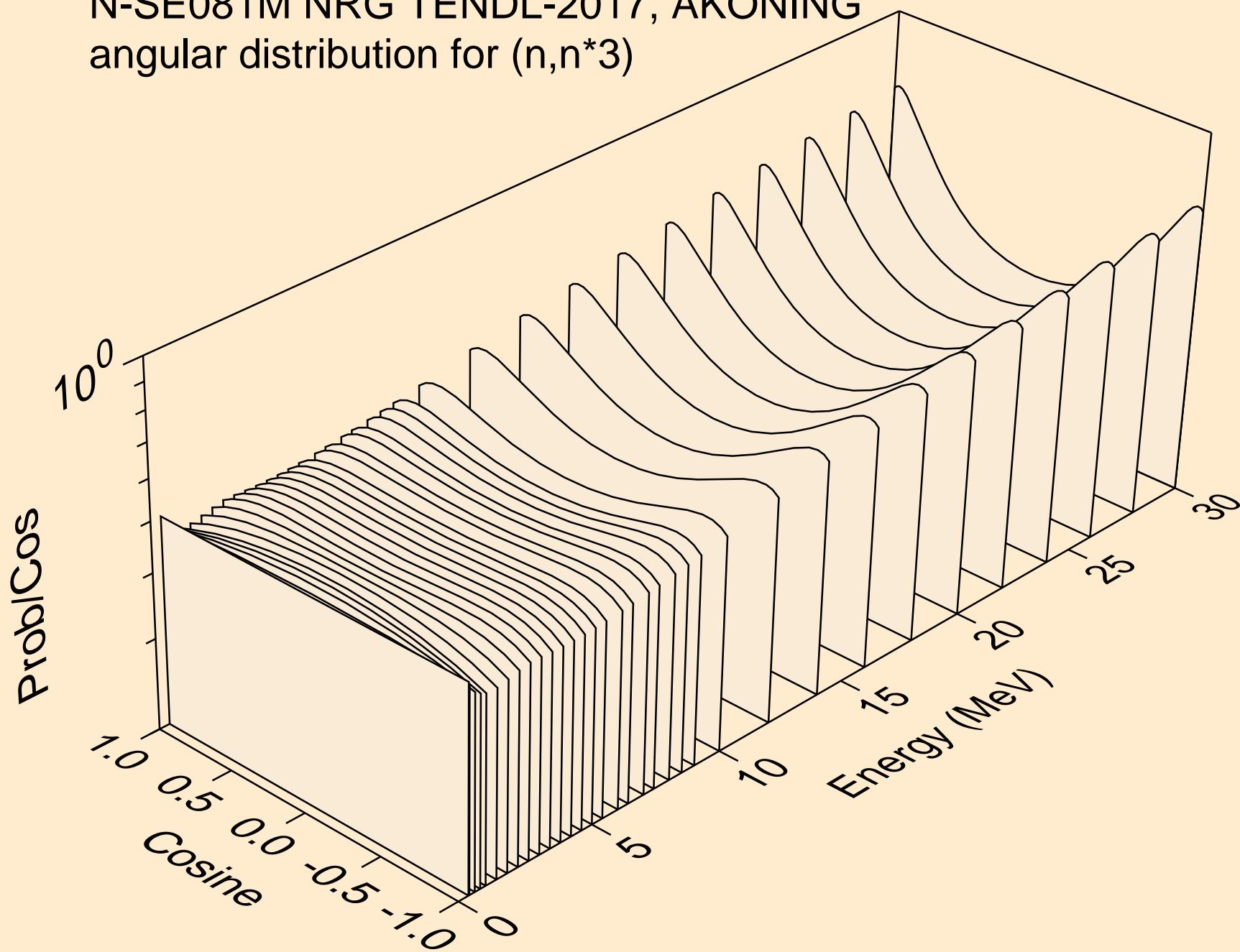
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angular distribution for (n,n\*1)



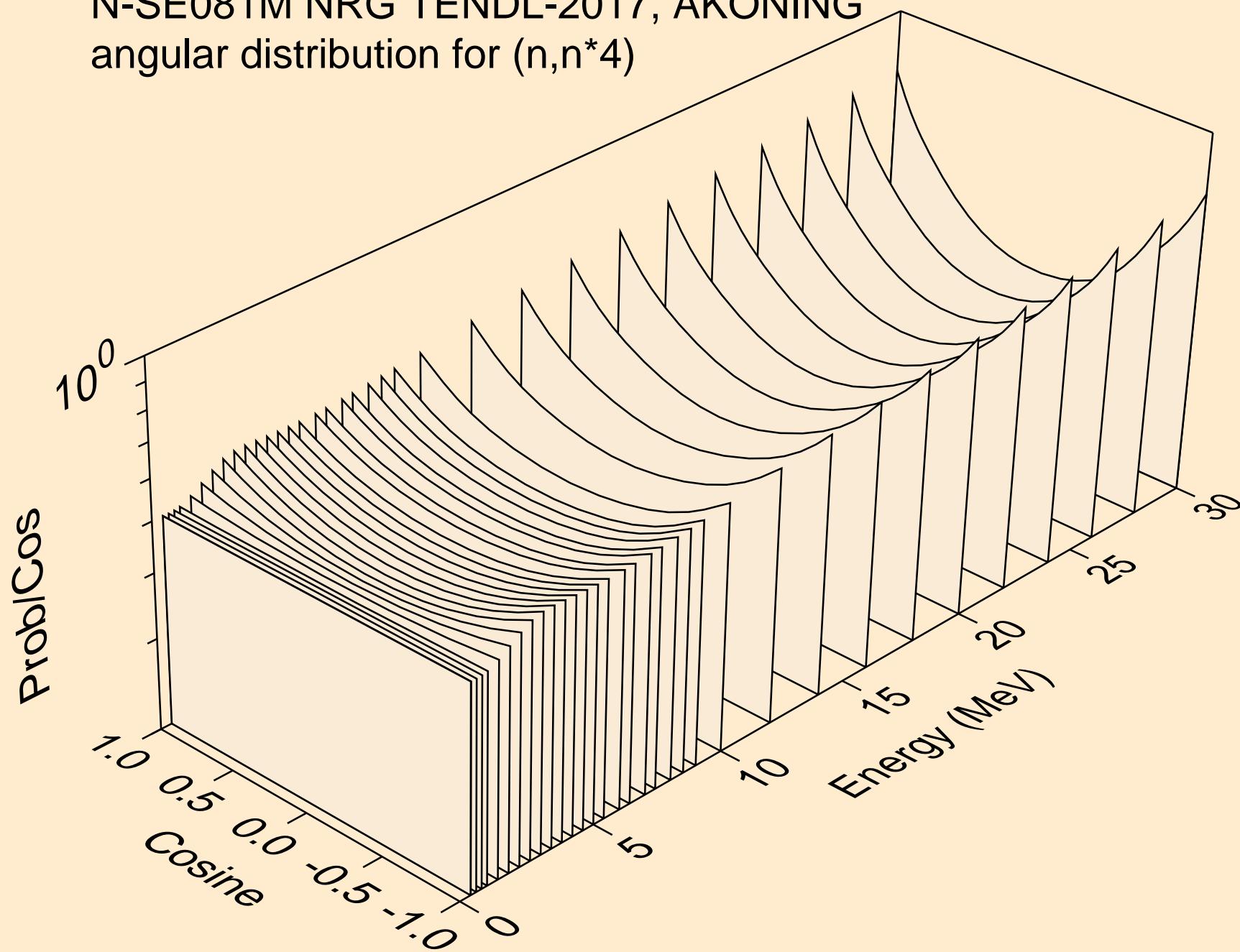
N-SE081M NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*2)$



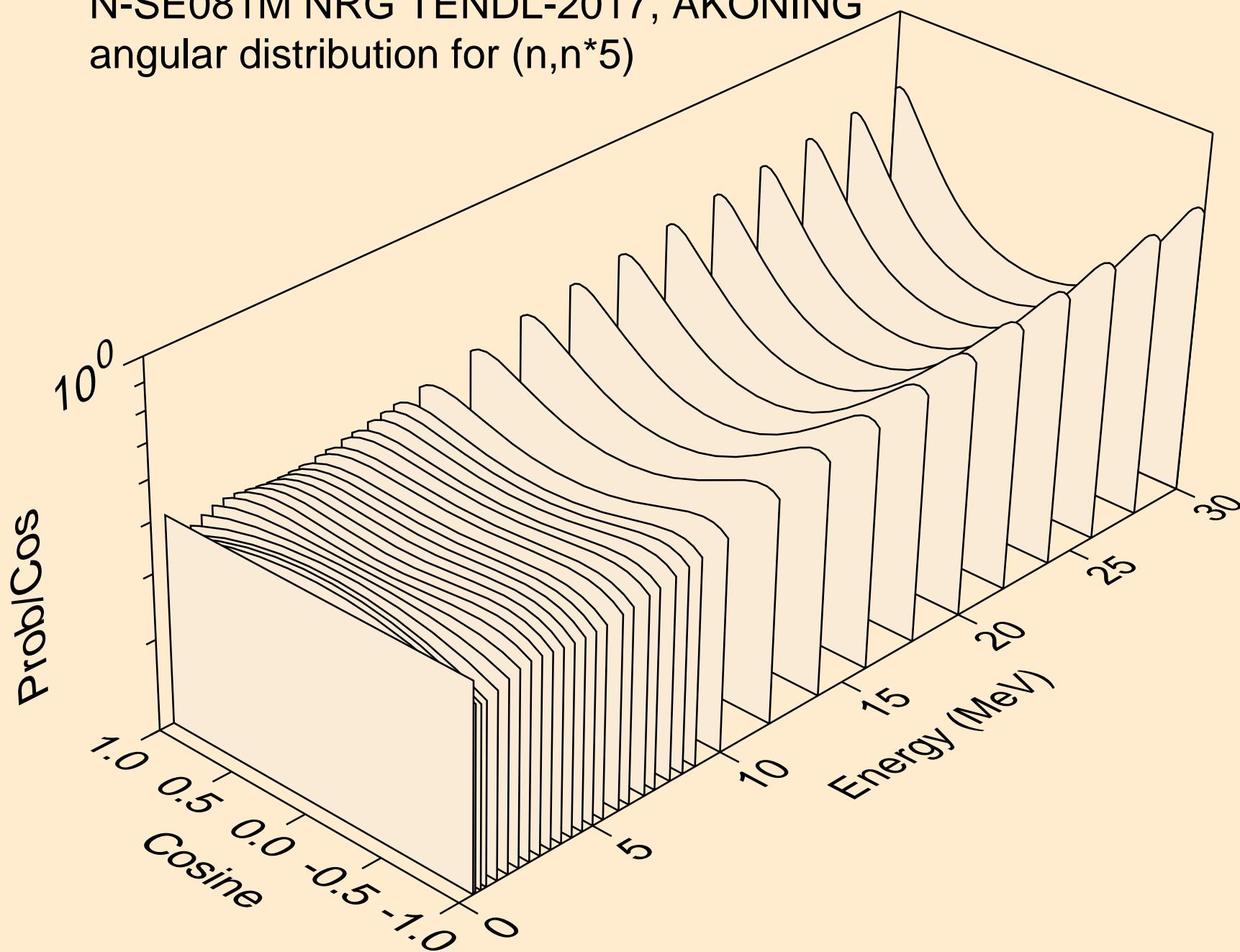
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angular distribution for  $(n,n^*3)$



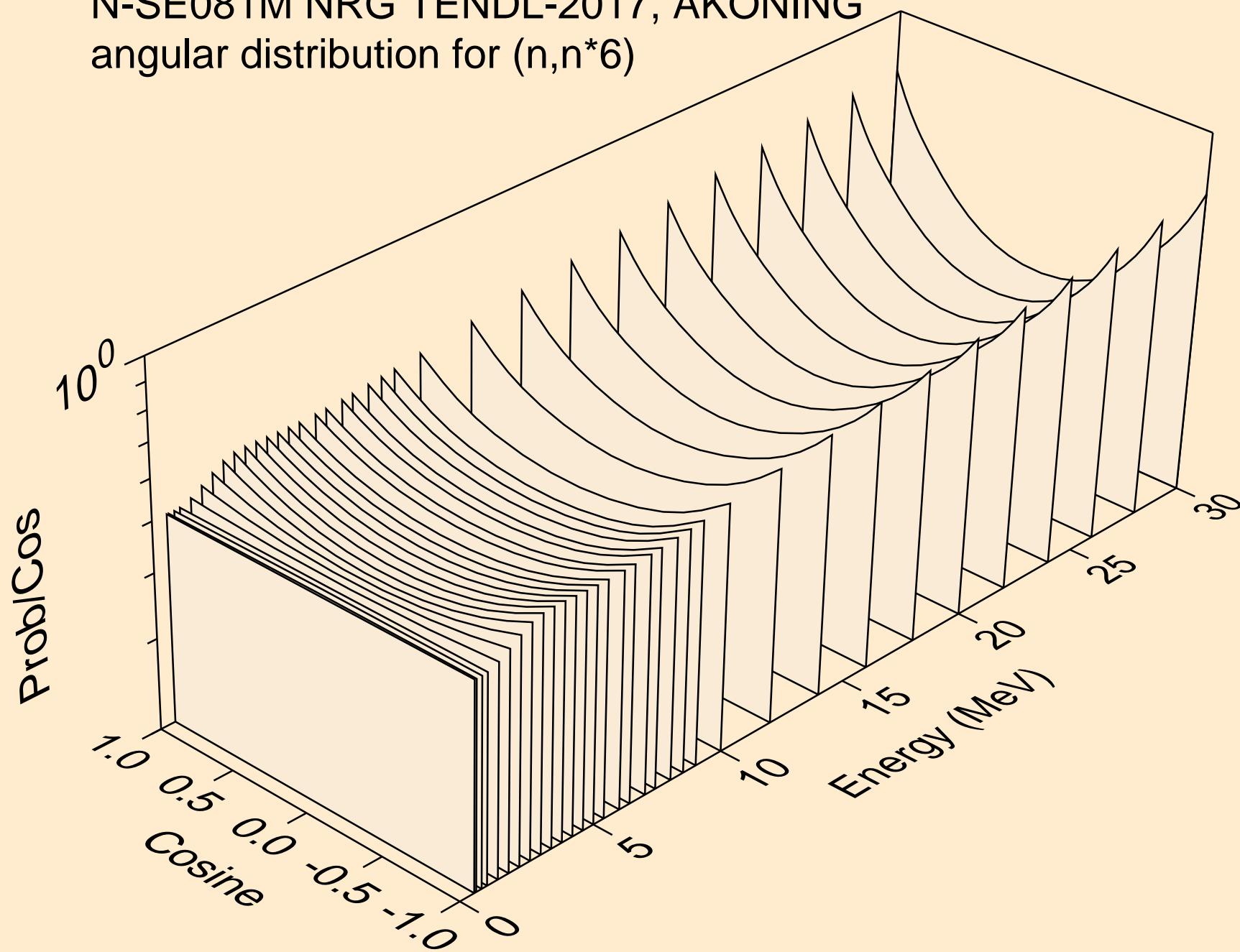
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angular distribution for  $(n,n^*4)$



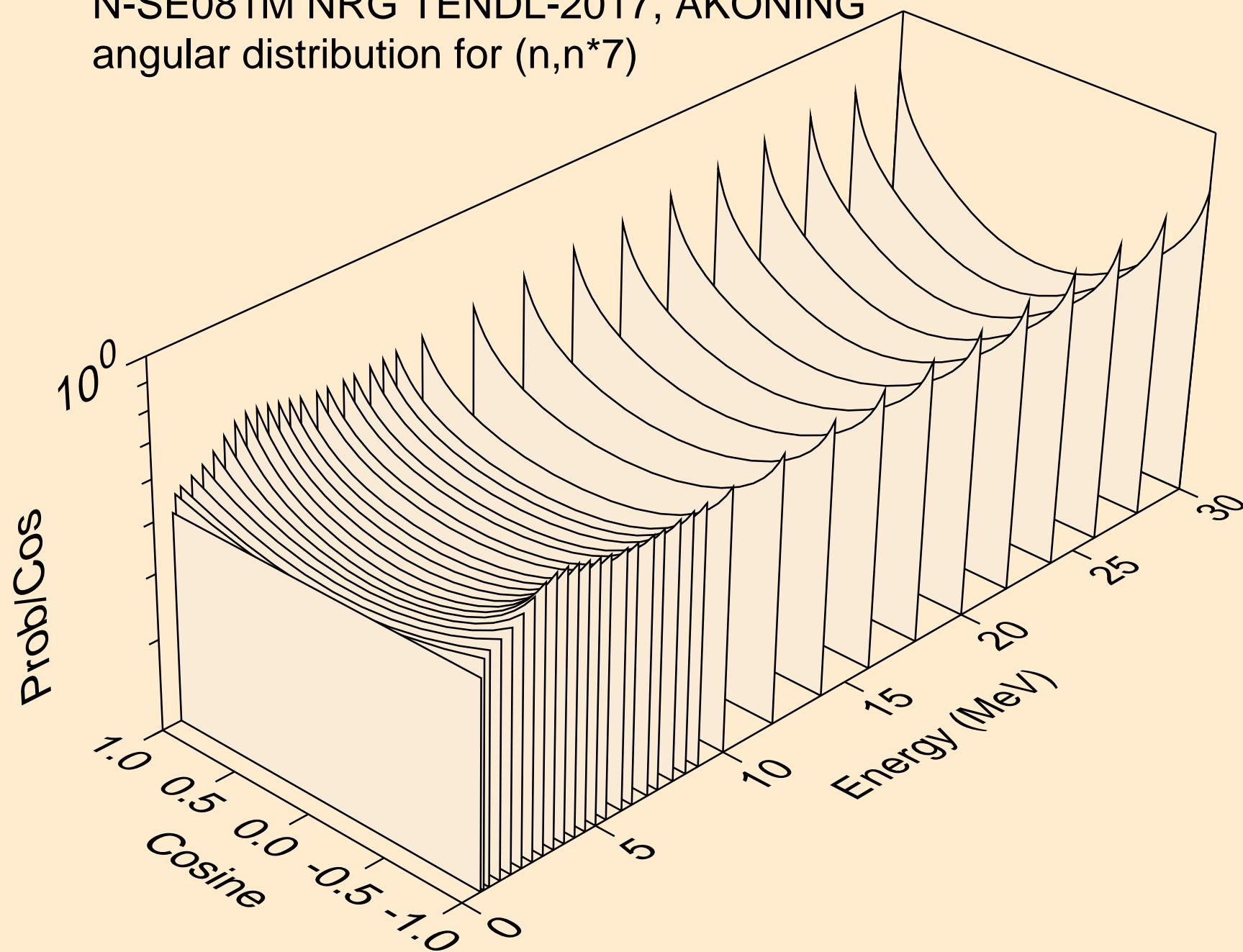
N-SE081M NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*)^5$



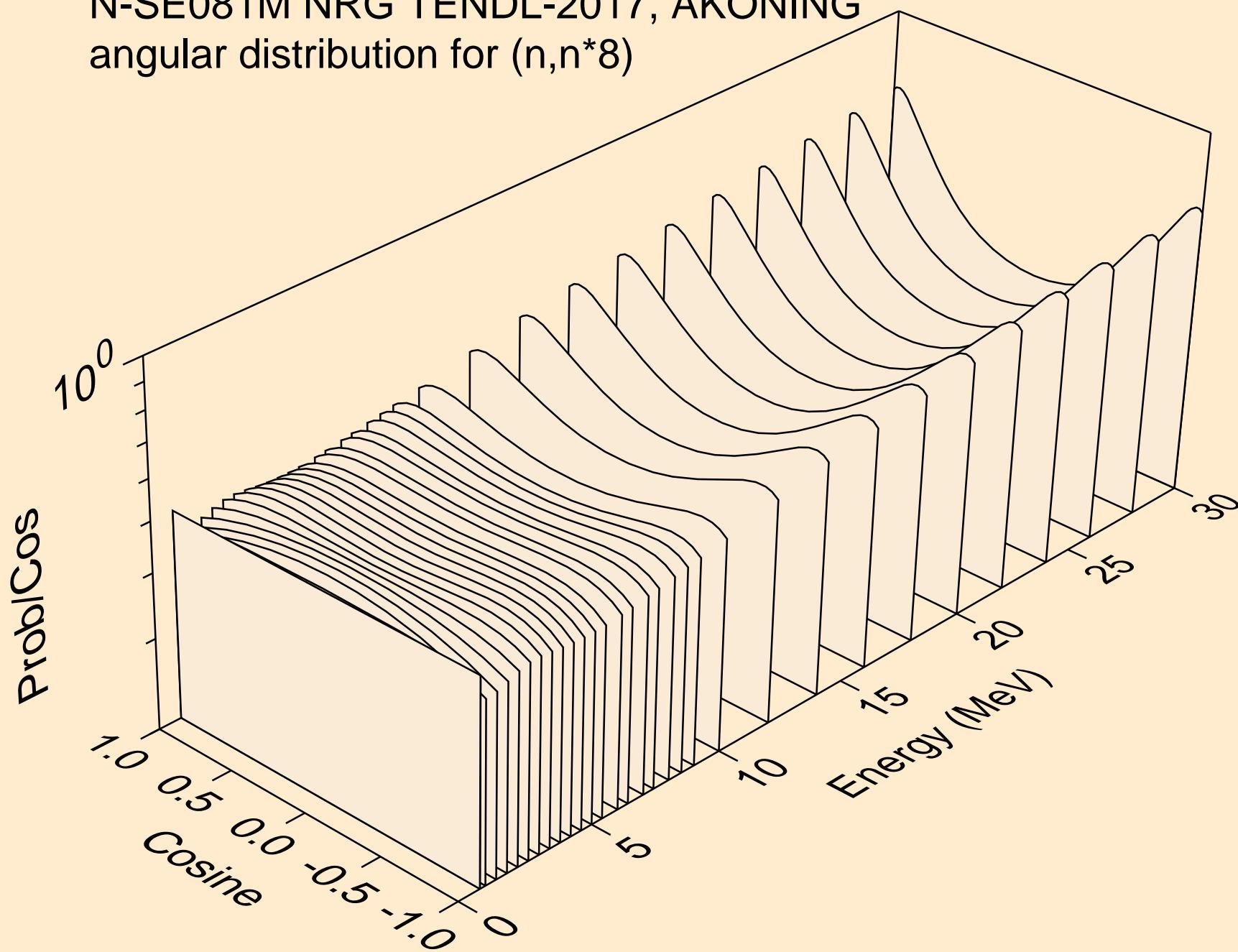
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angular distribution for (n,n\*6)



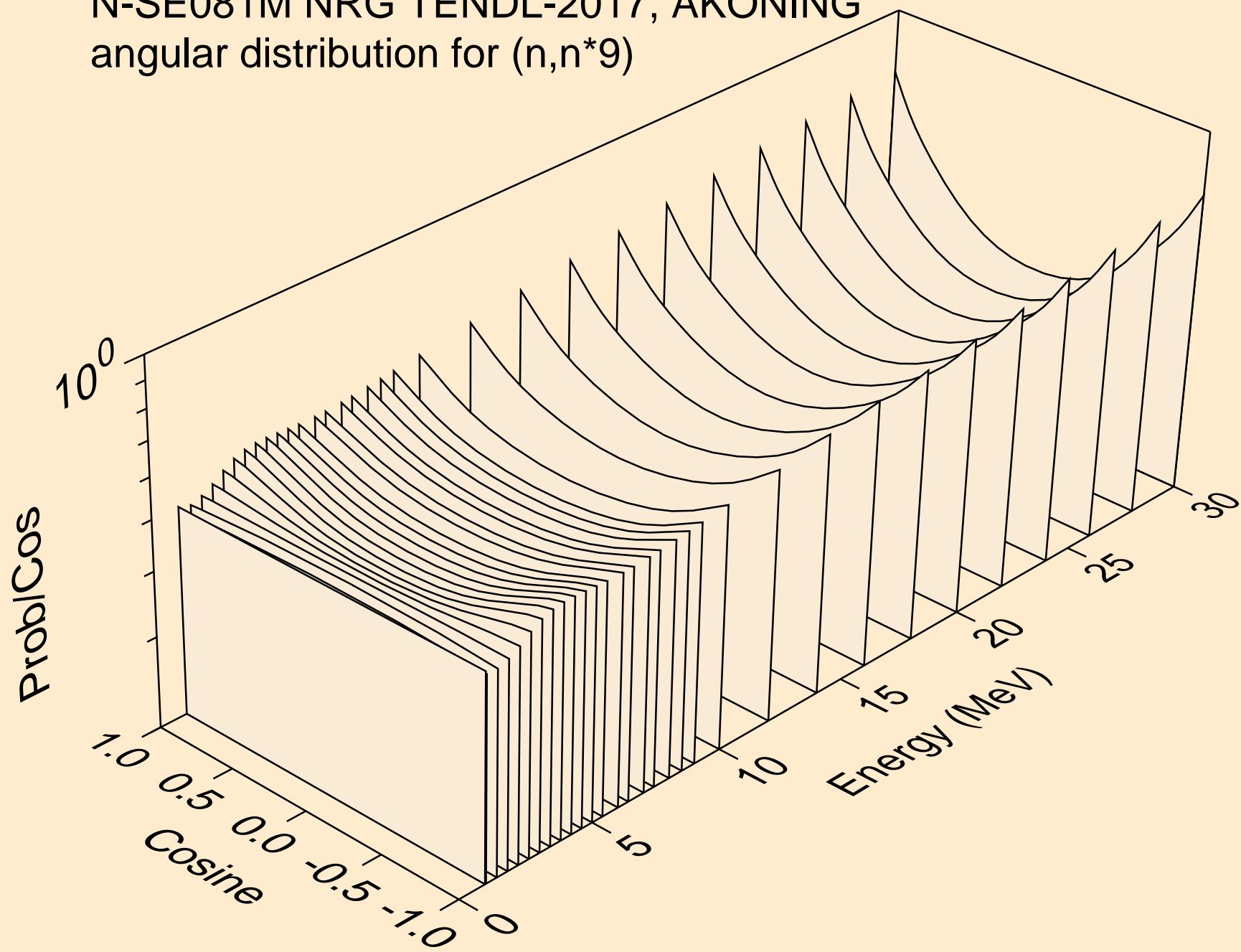
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angular distribution for (n,n\*7)



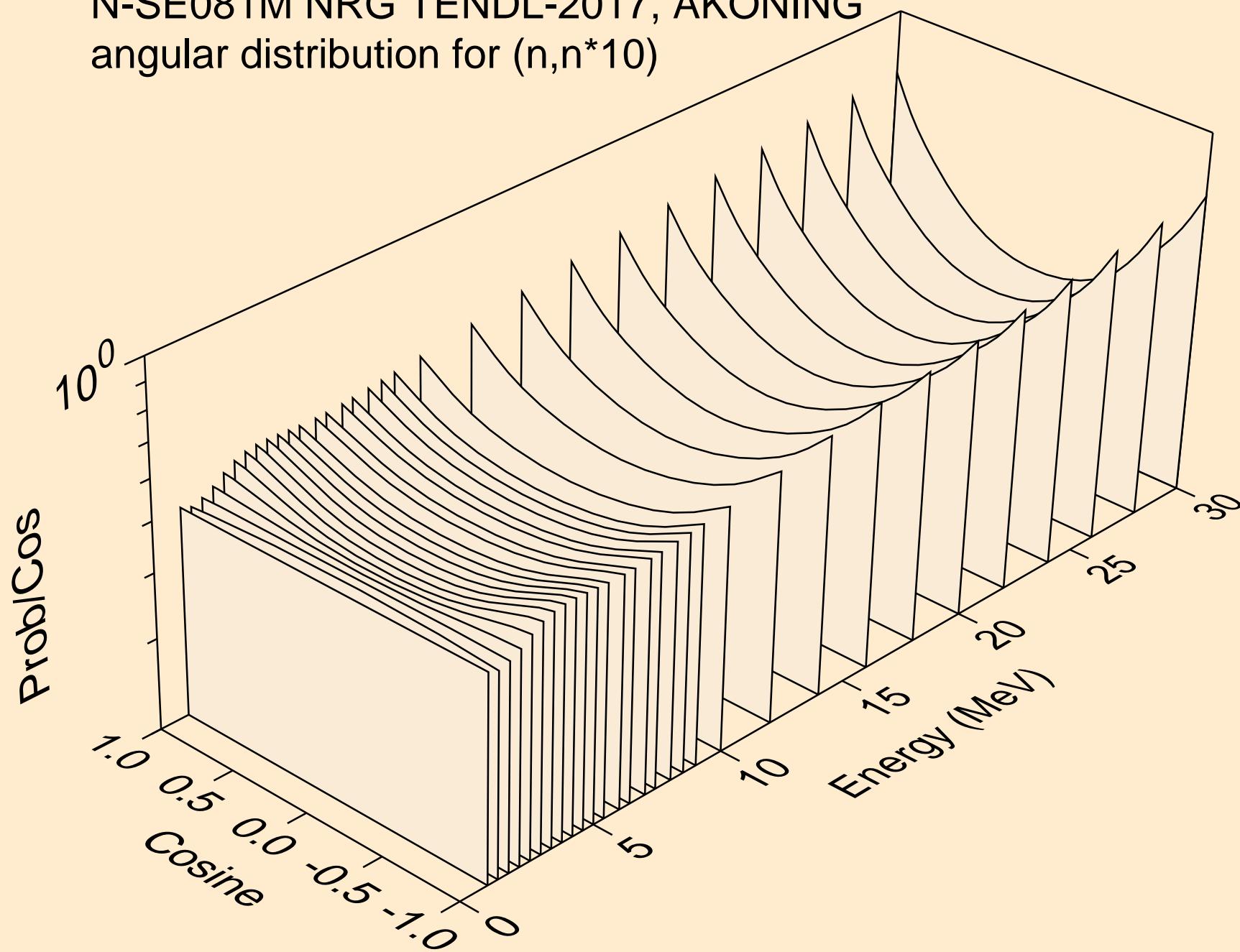
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angular distribution for  $(n,n^*8)$



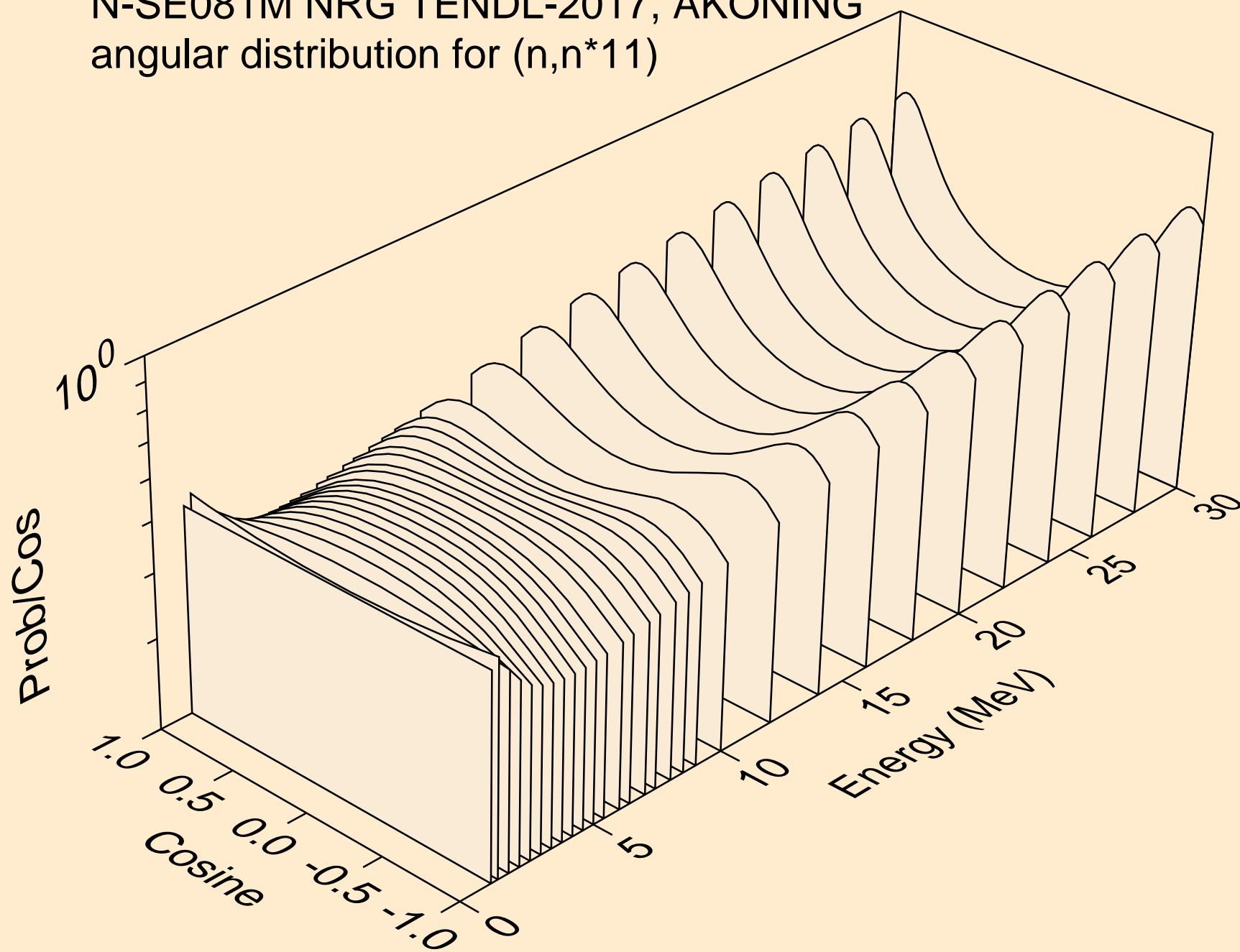
N-SE081M NRG TENDL-2017, AKONING  
angular distribution for (n,n\*9)



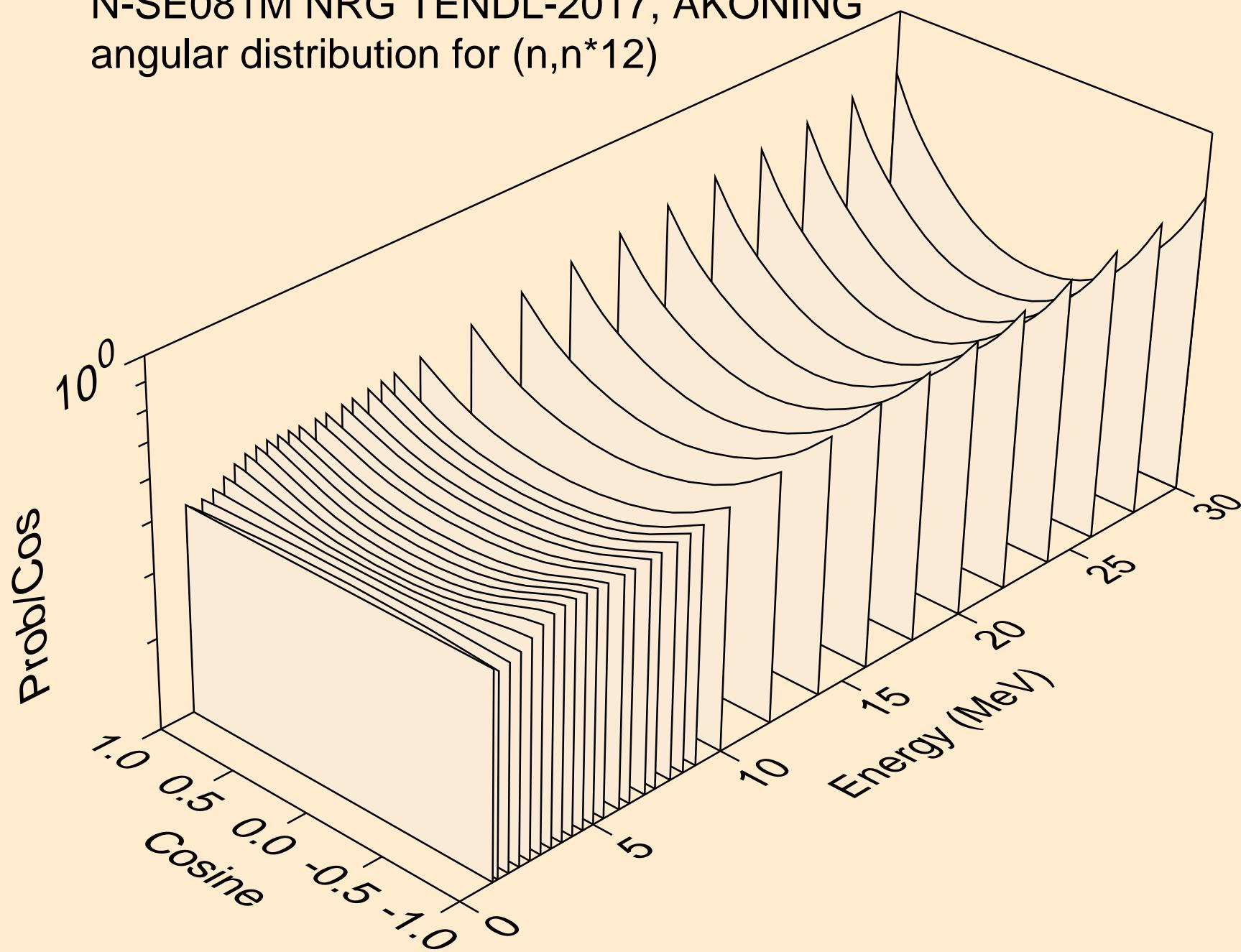
N-SE081M NRG TENDL-2017, AKONING  
angular distribution for (n,n\*10)



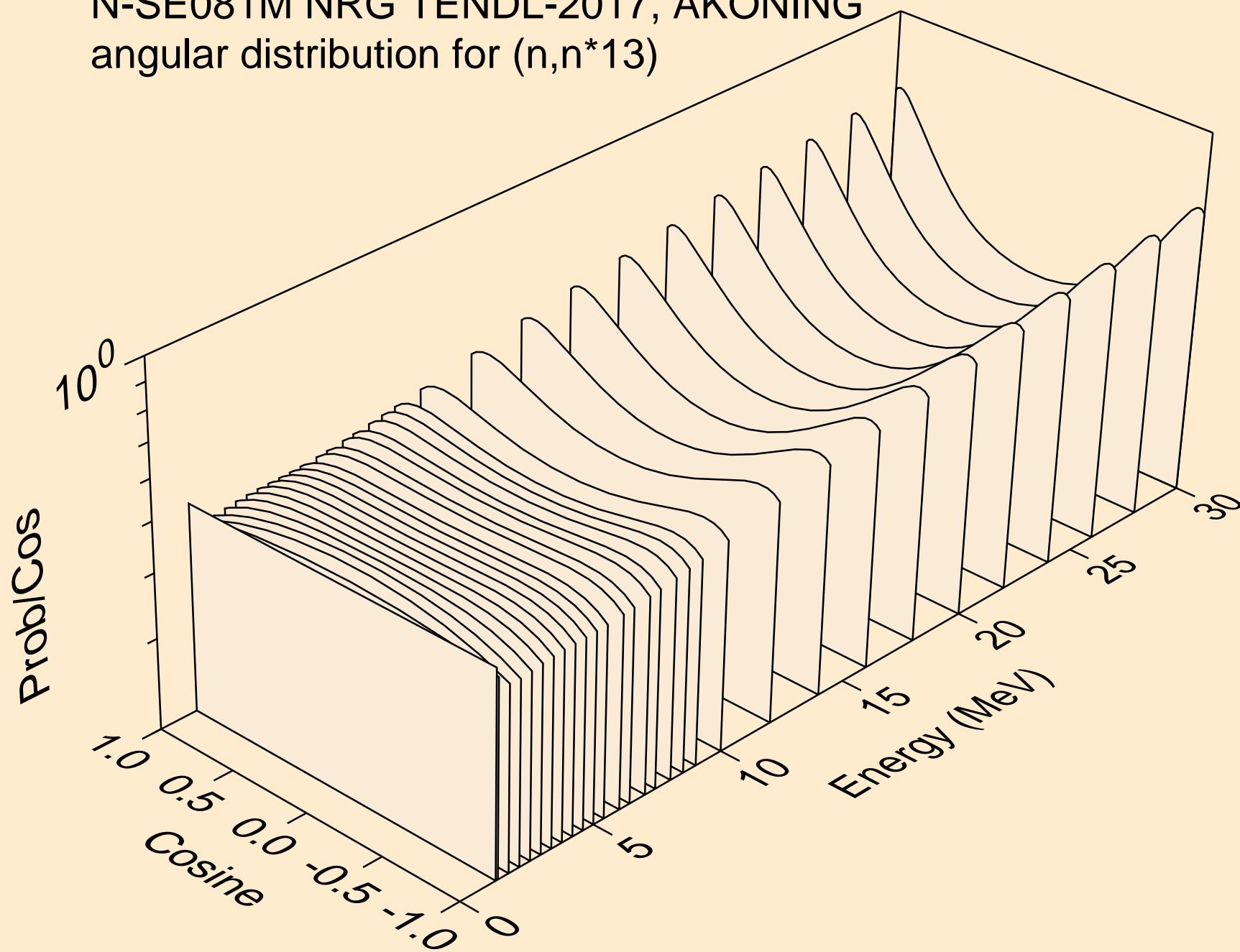
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angular distribution for (n,n\*11)



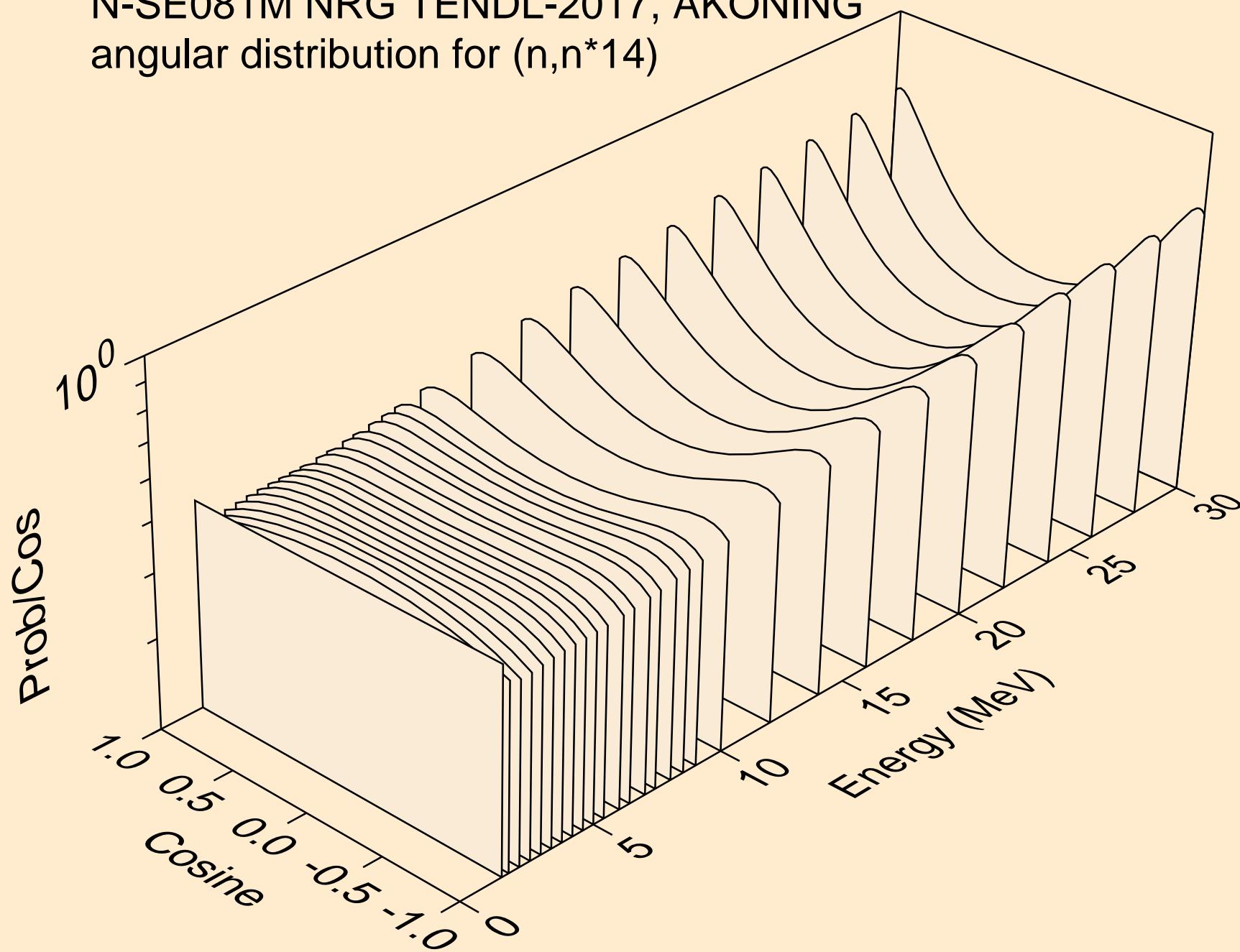
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angular distribution for (n,n\*12)



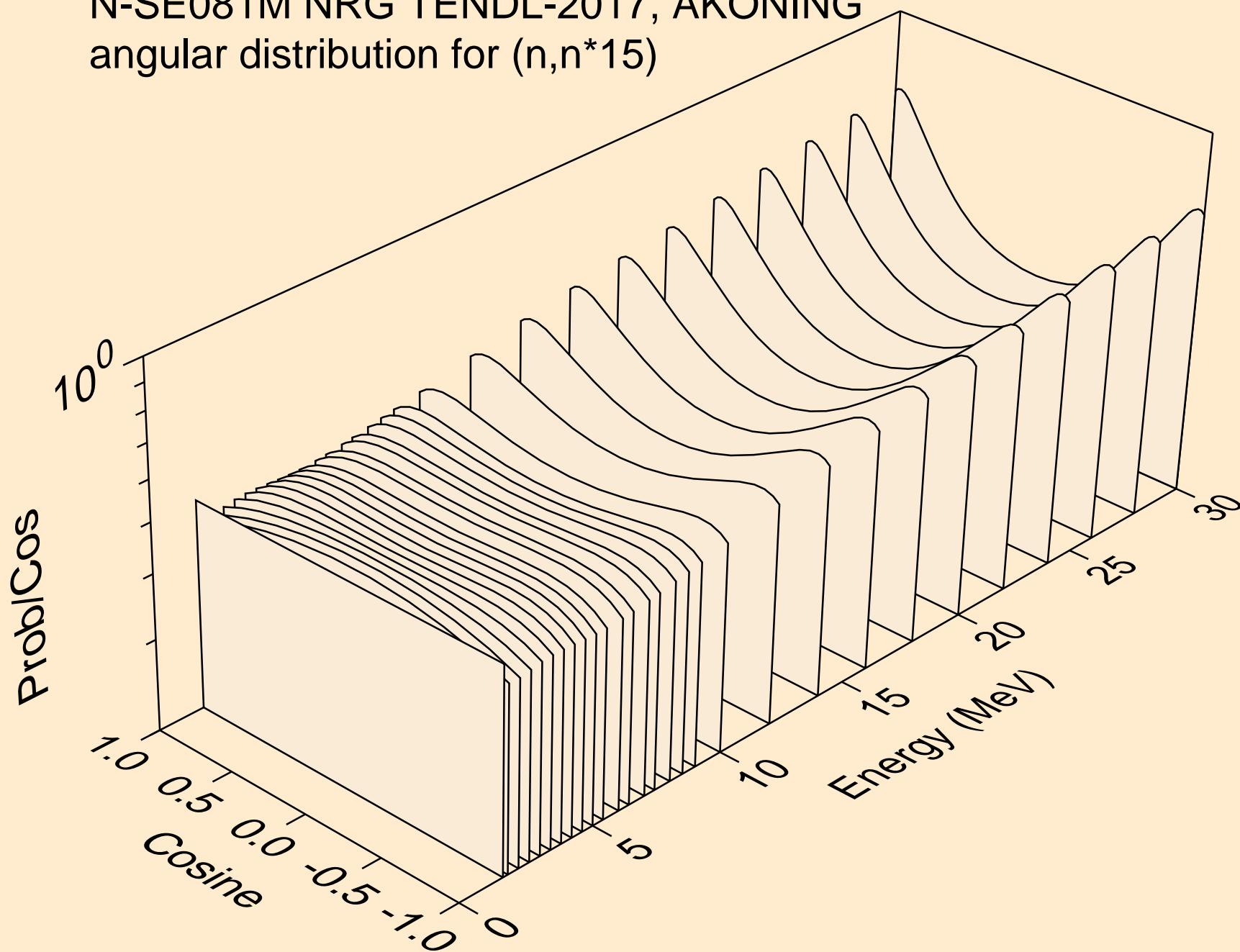
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angular distribution for (n,n\*13)



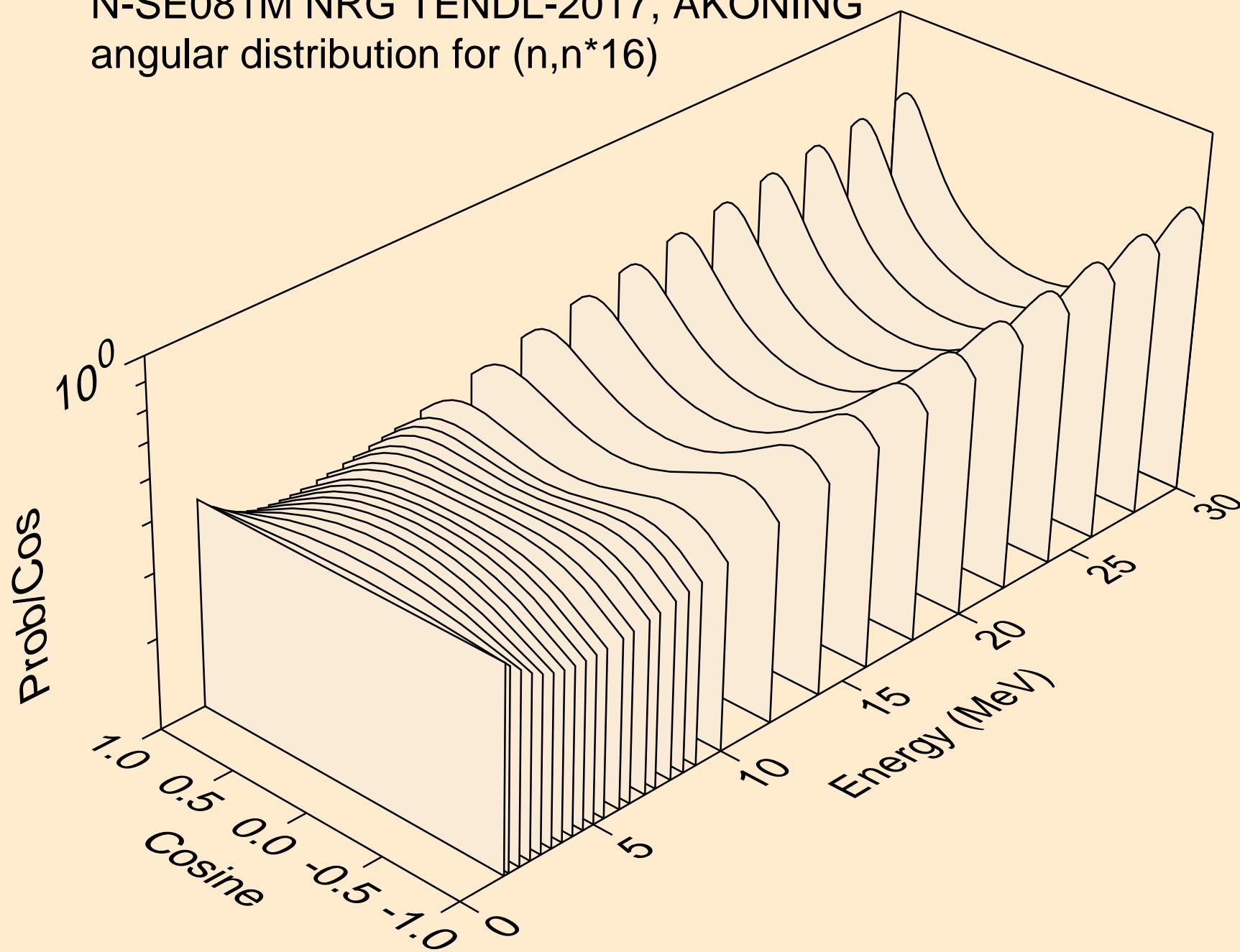
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angular distribution for (n,n\*14)



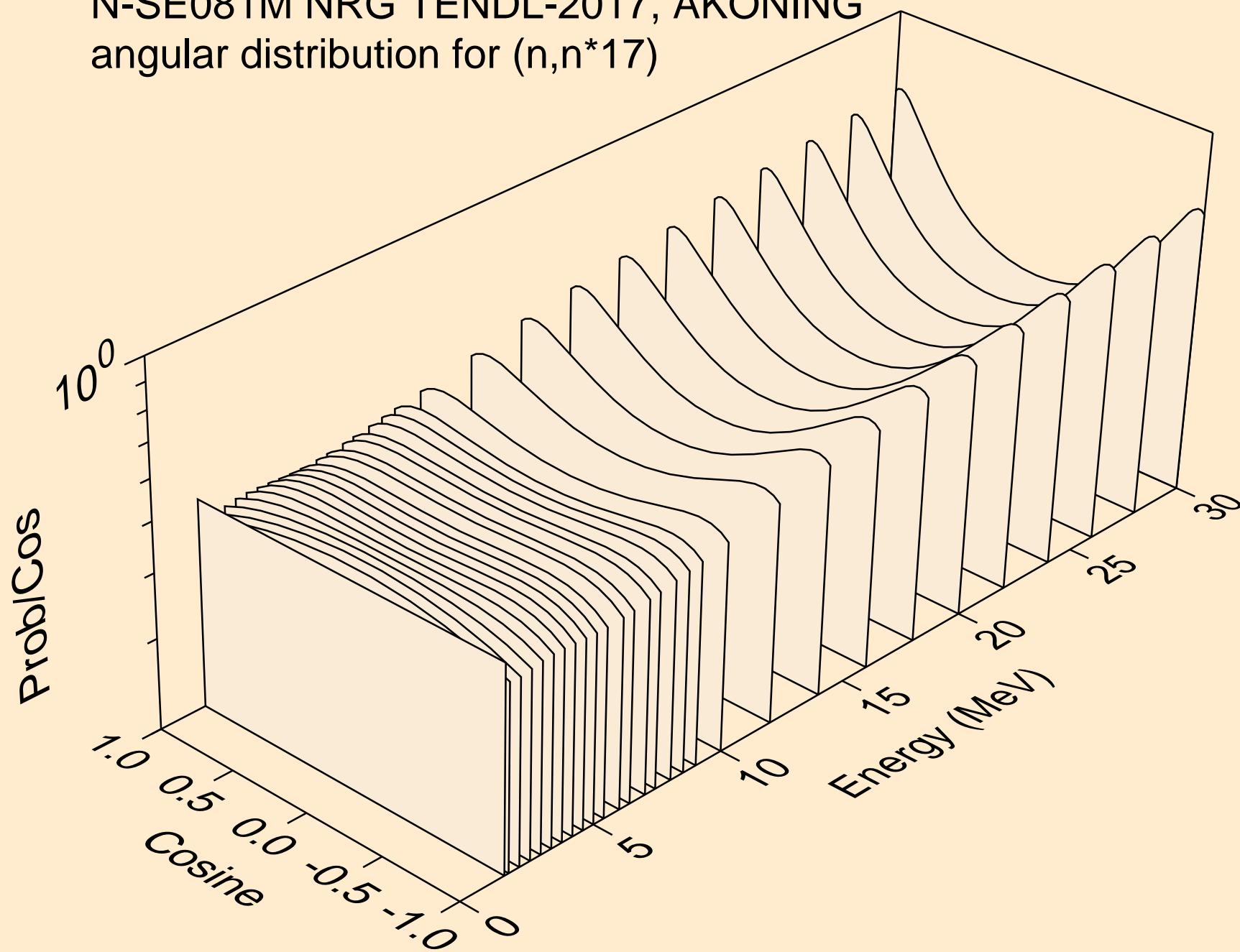
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angular distribution for  $(n,n^*15)$



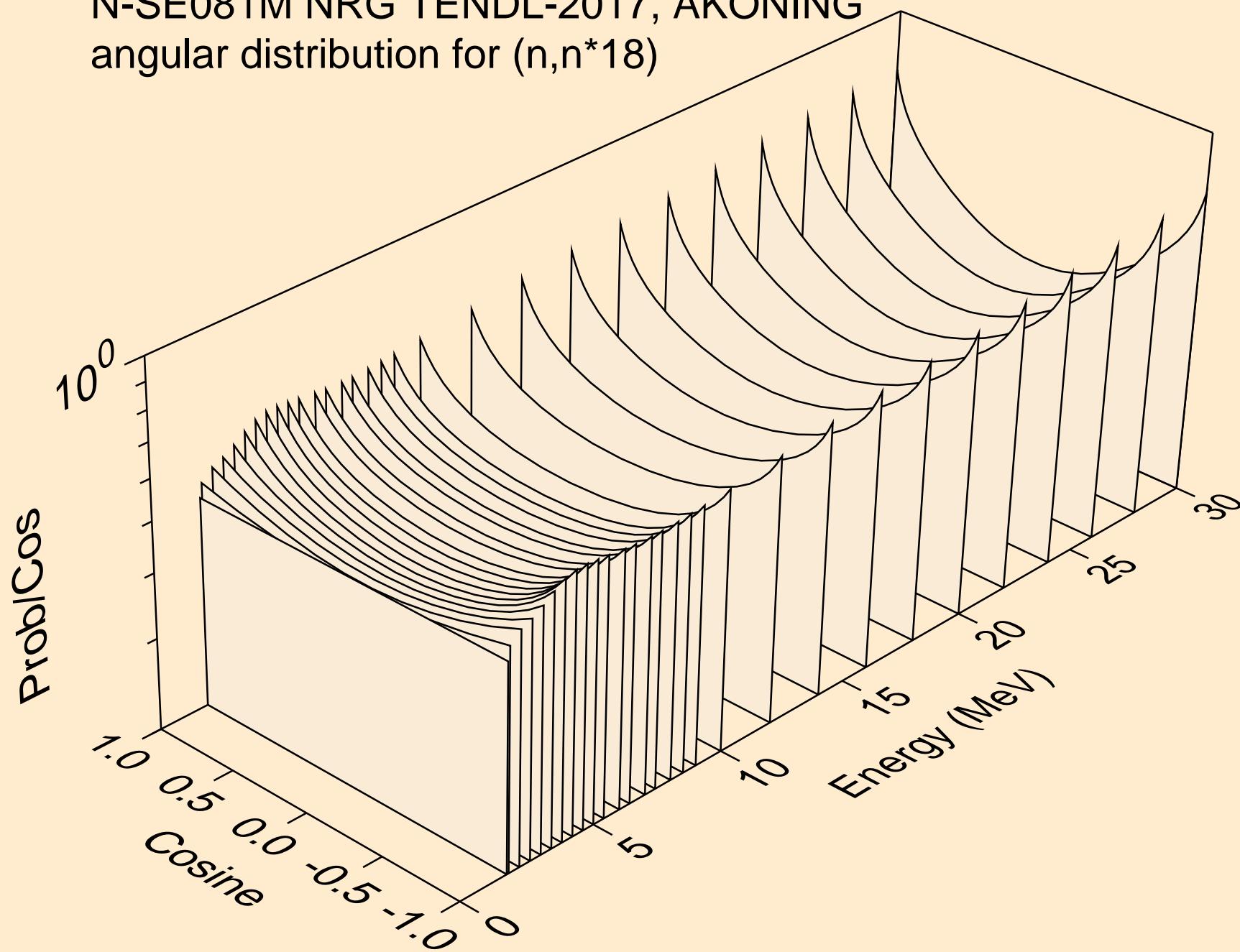
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angular distribution for (n,n\*16)



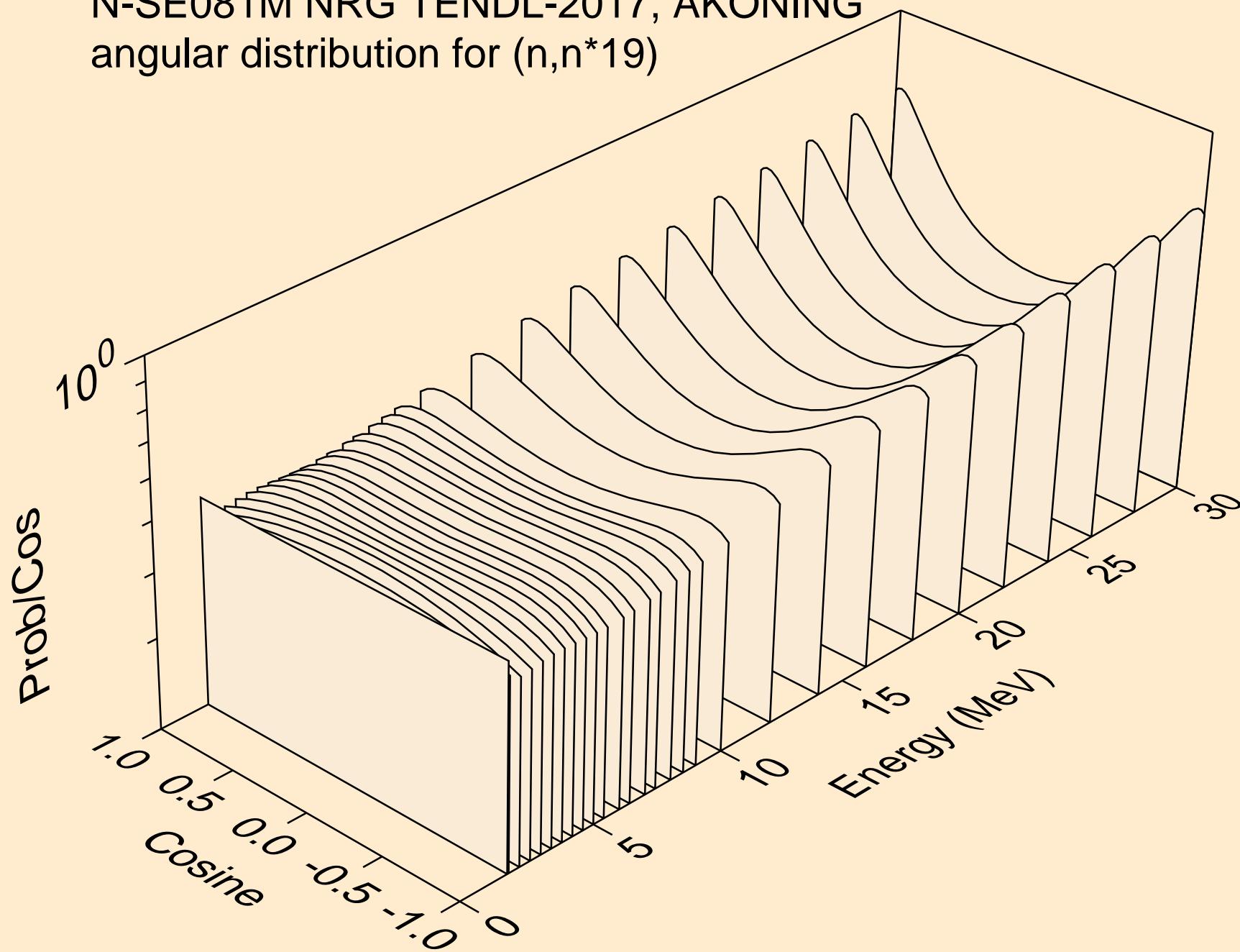
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angular distribution for (n,n\*17)



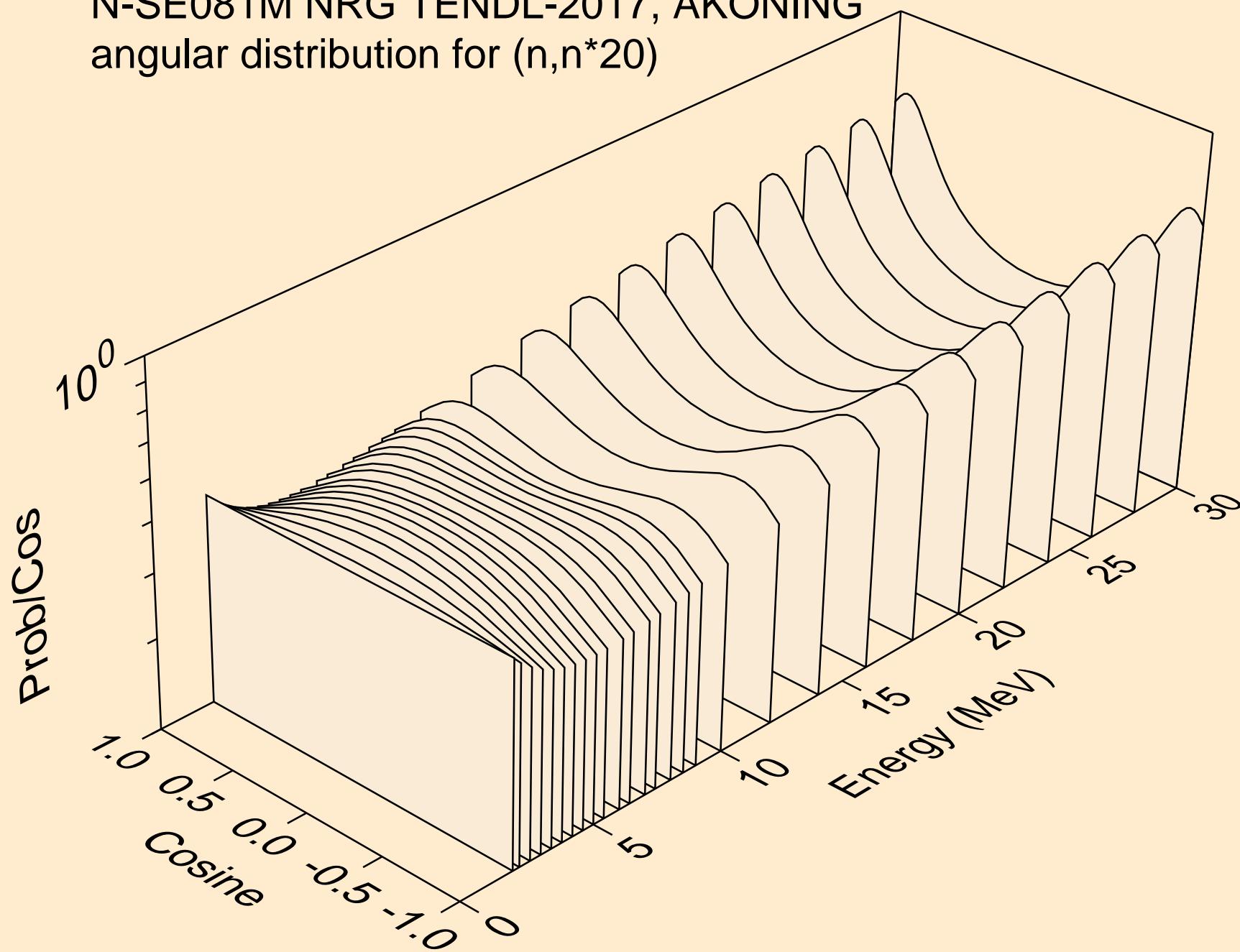
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angular distribution for (n,n\*18)



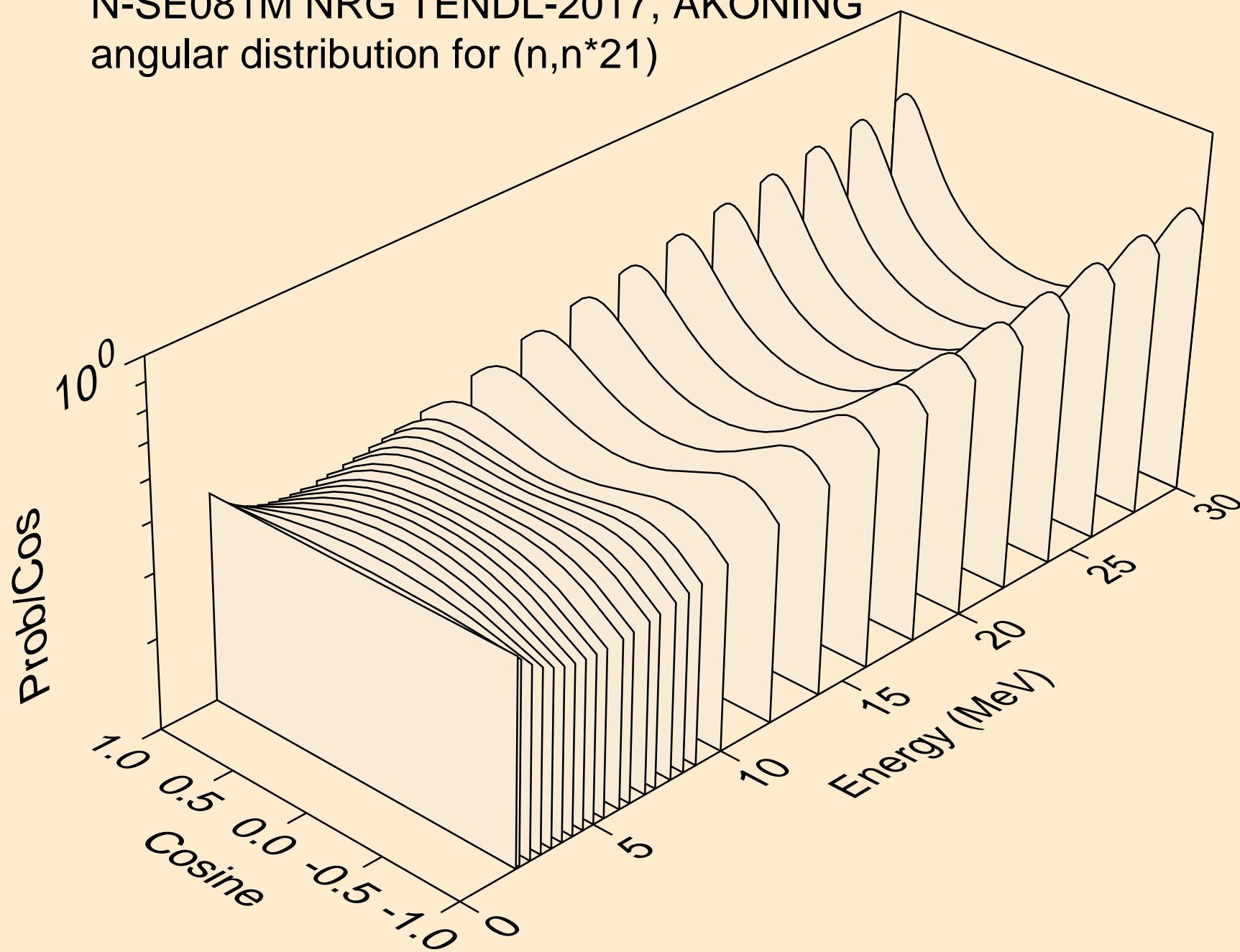
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angular distribution for (n,n\*19)



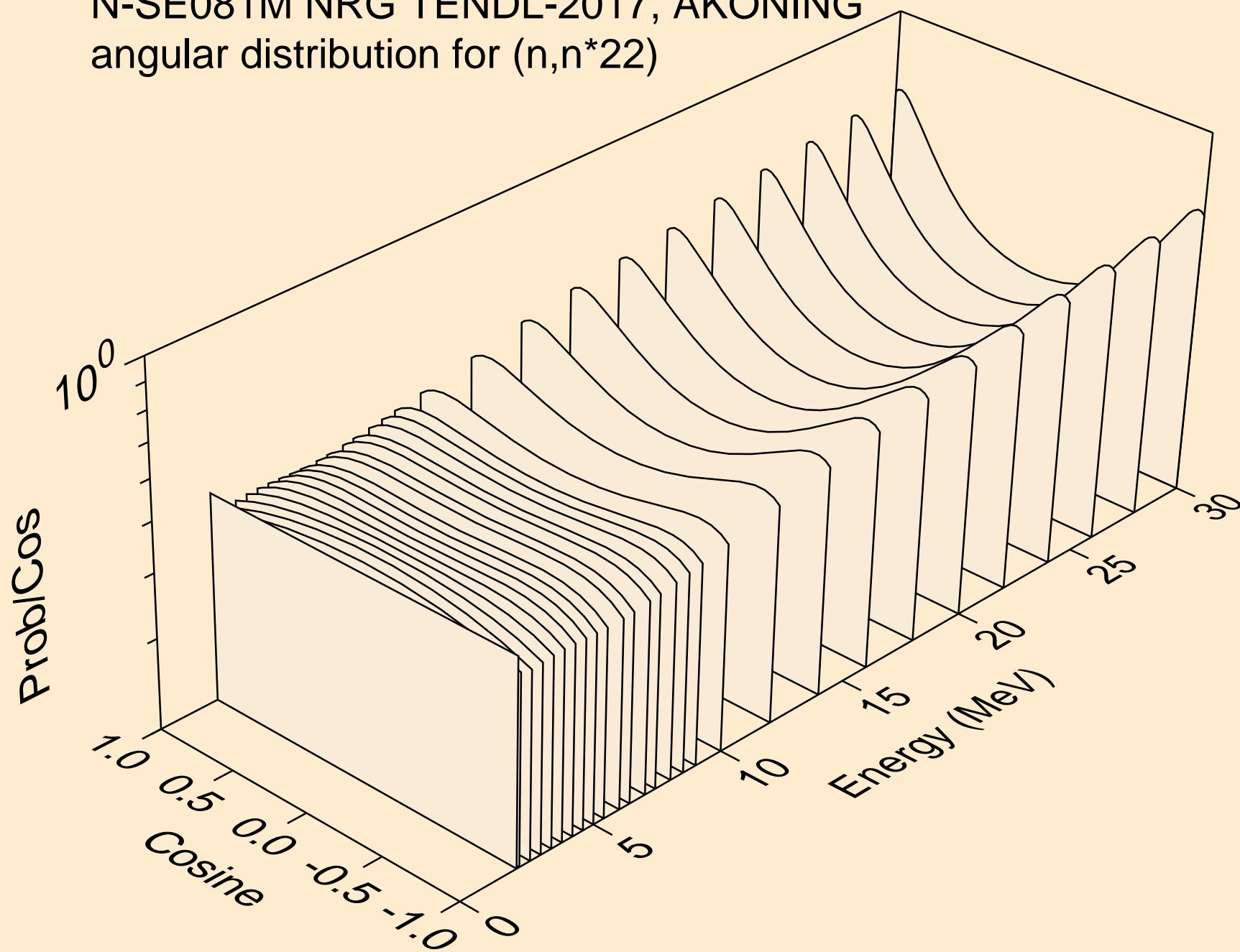
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angular distribution for (n,n\*20)



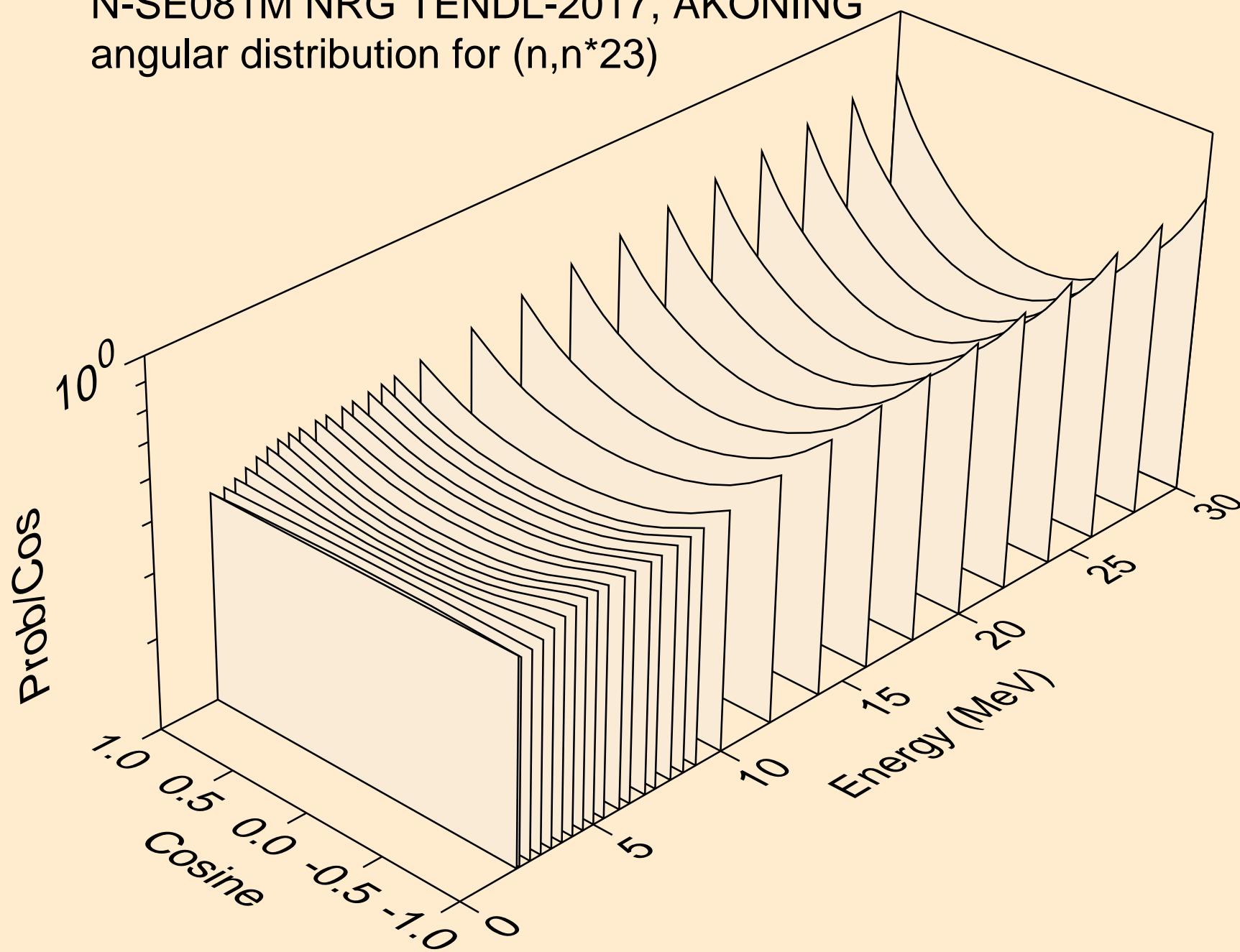
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angular distribution for (n,n\*21)



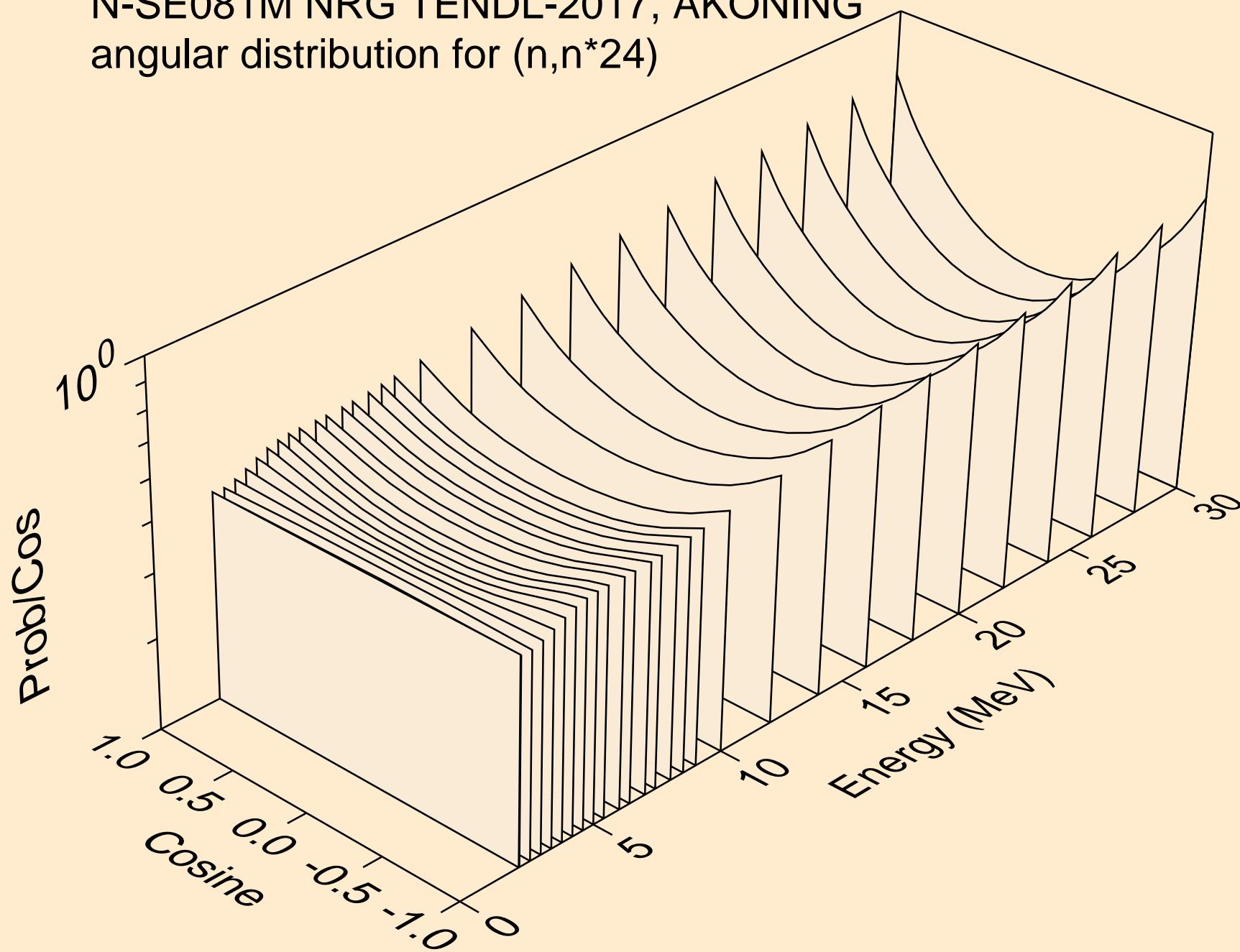
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angular distribution for (n,n\*22)



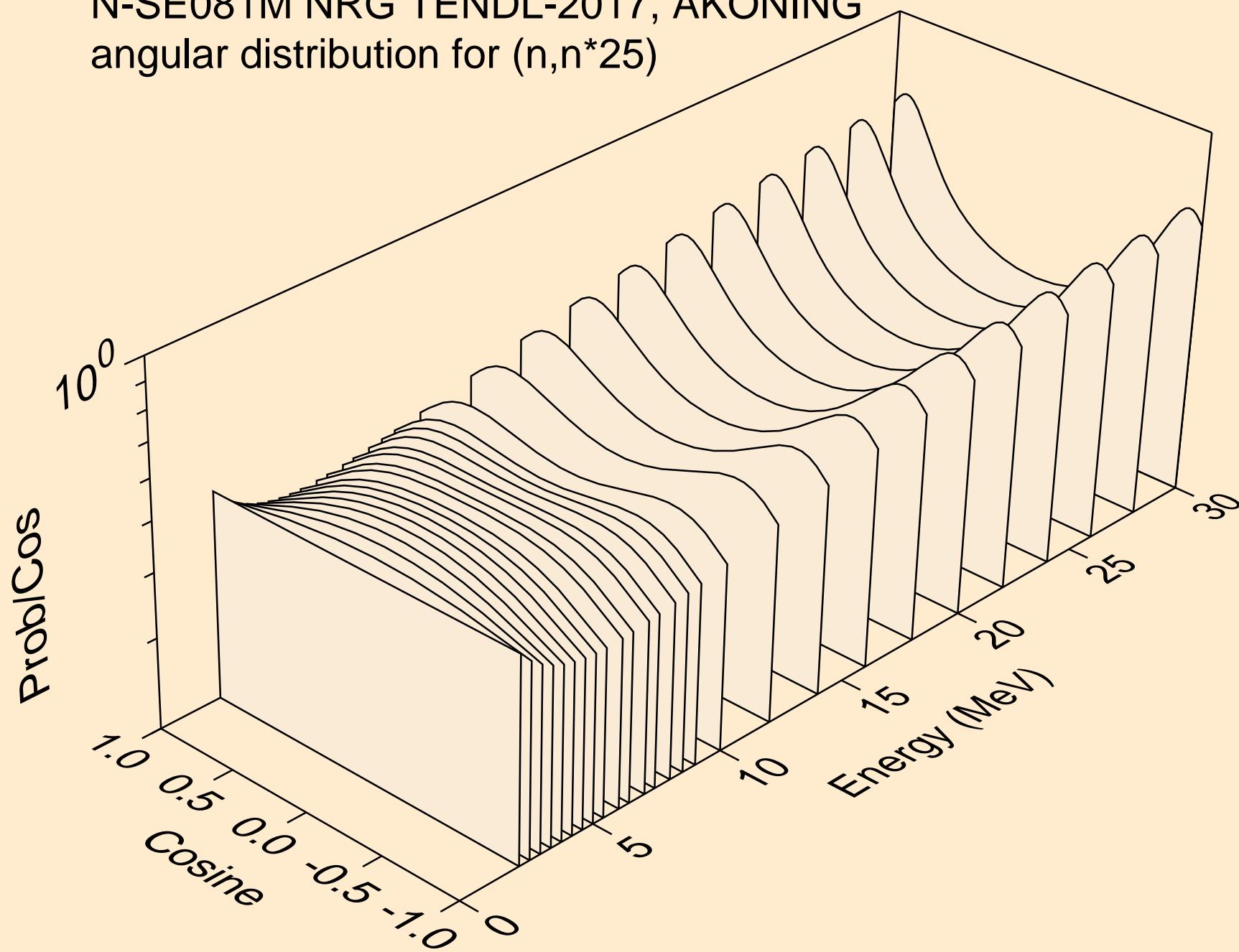
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angular distribution for (n,n\*23)



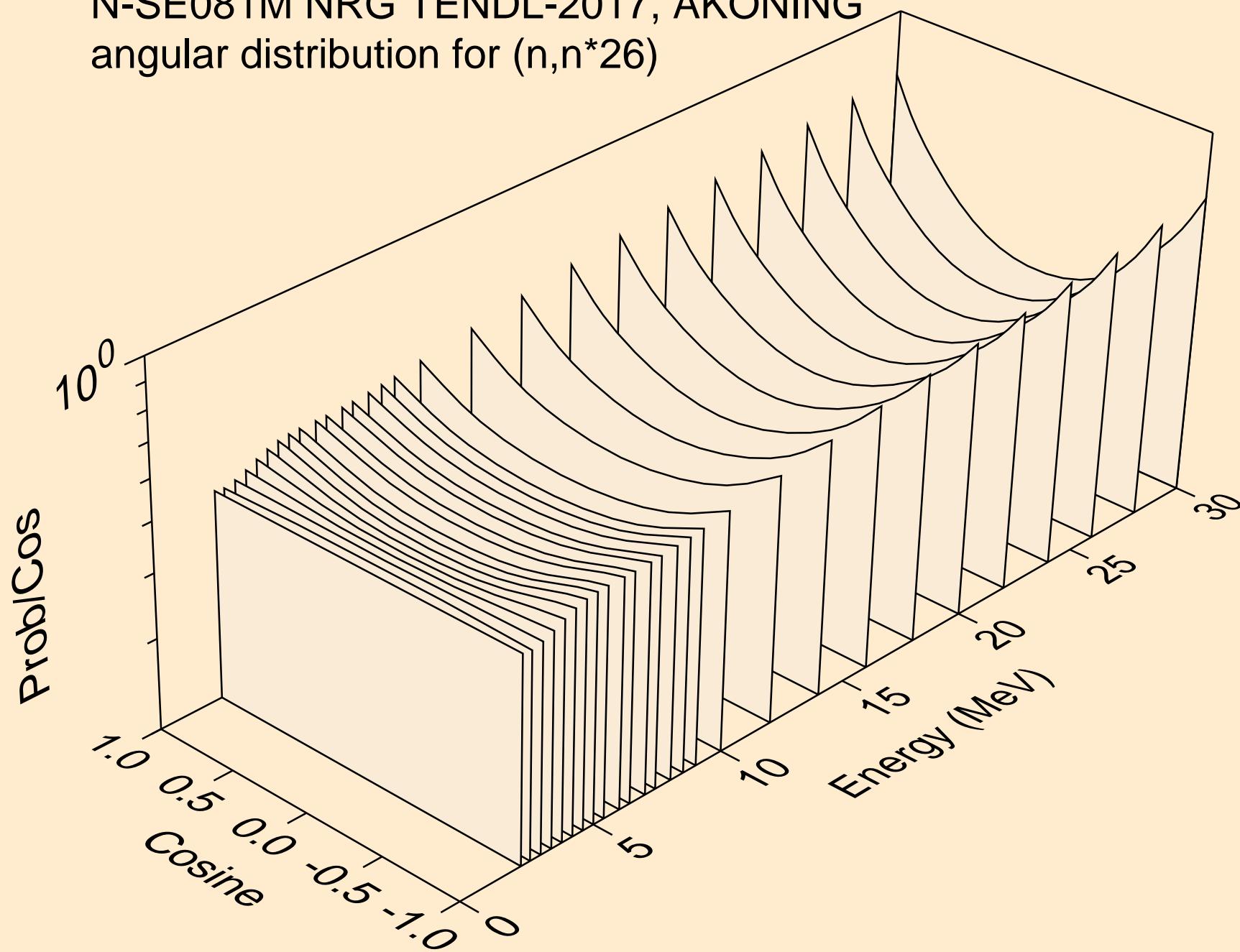
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angular distribution for (n,n\*24)



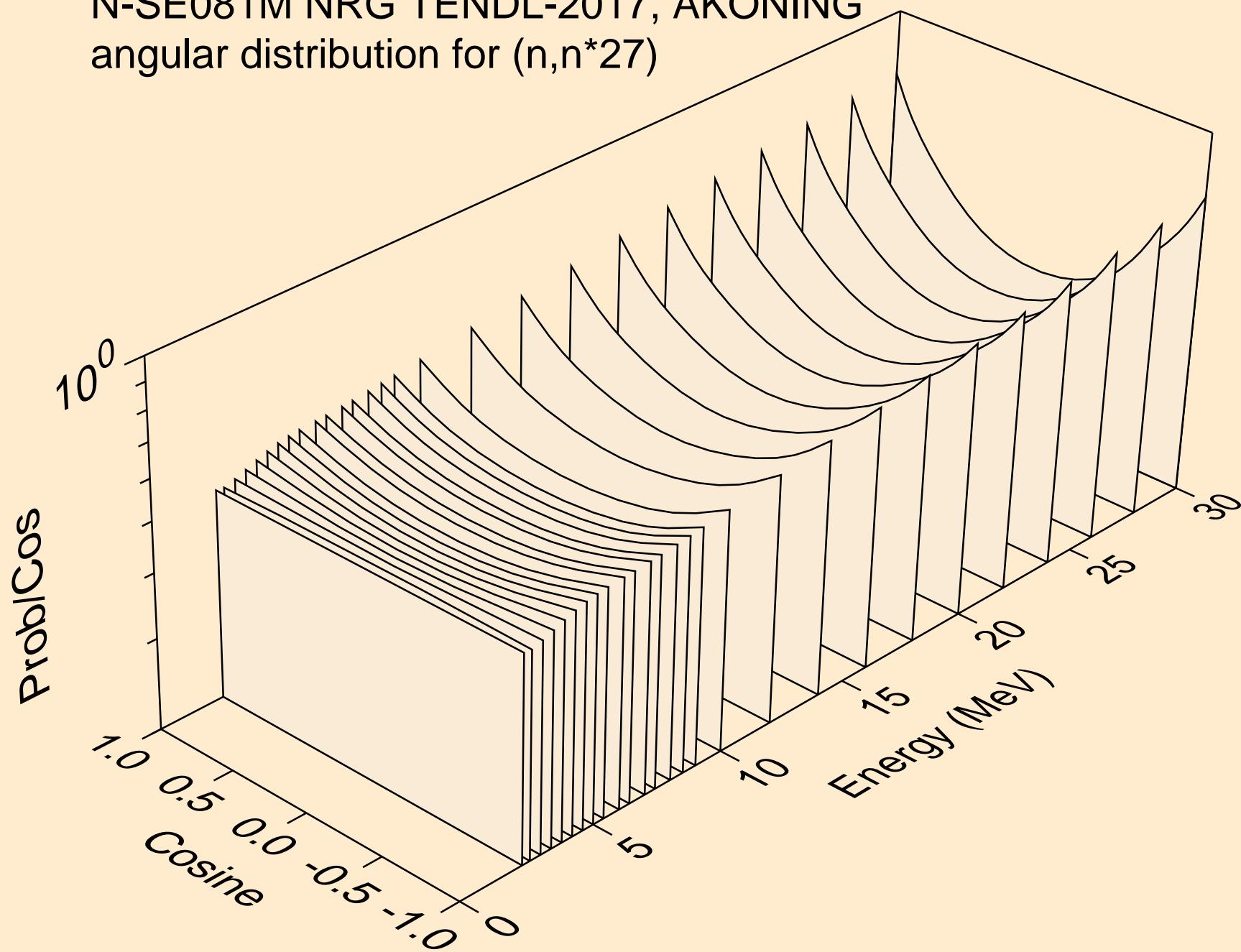
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angular distribution for (n,n\*25)



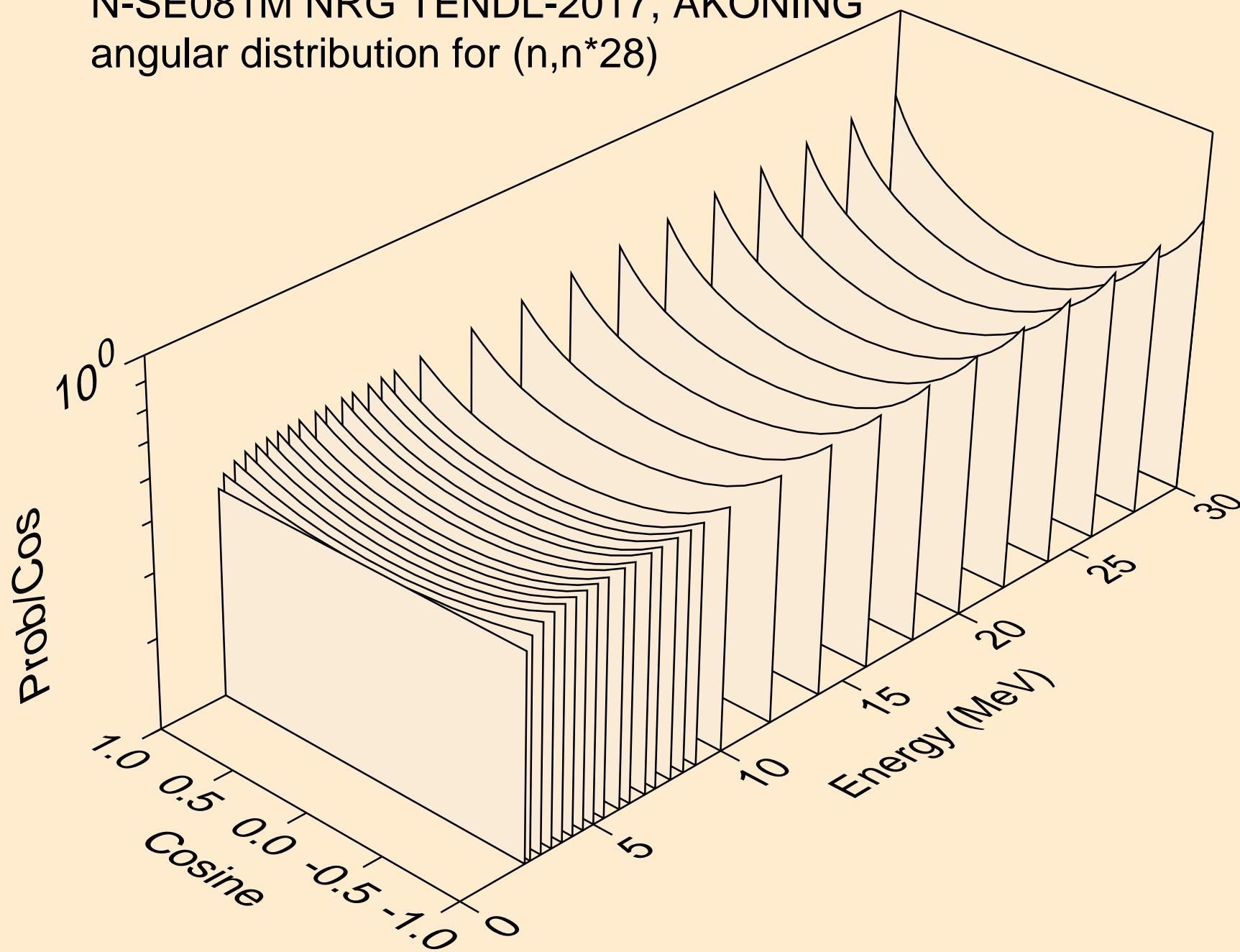
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angular distribution for (n,n\*26)



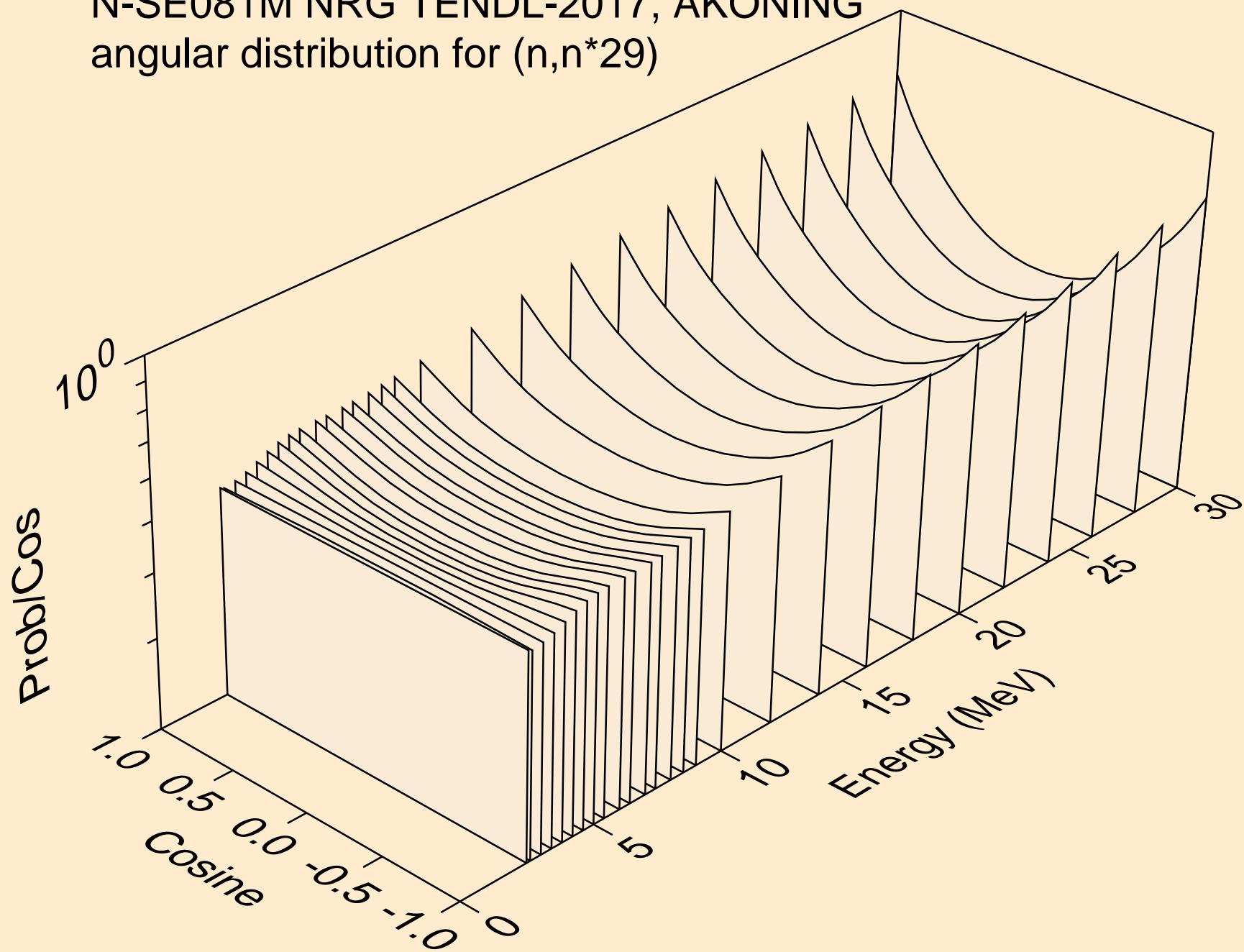
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angular distribution for (n,n\*27)



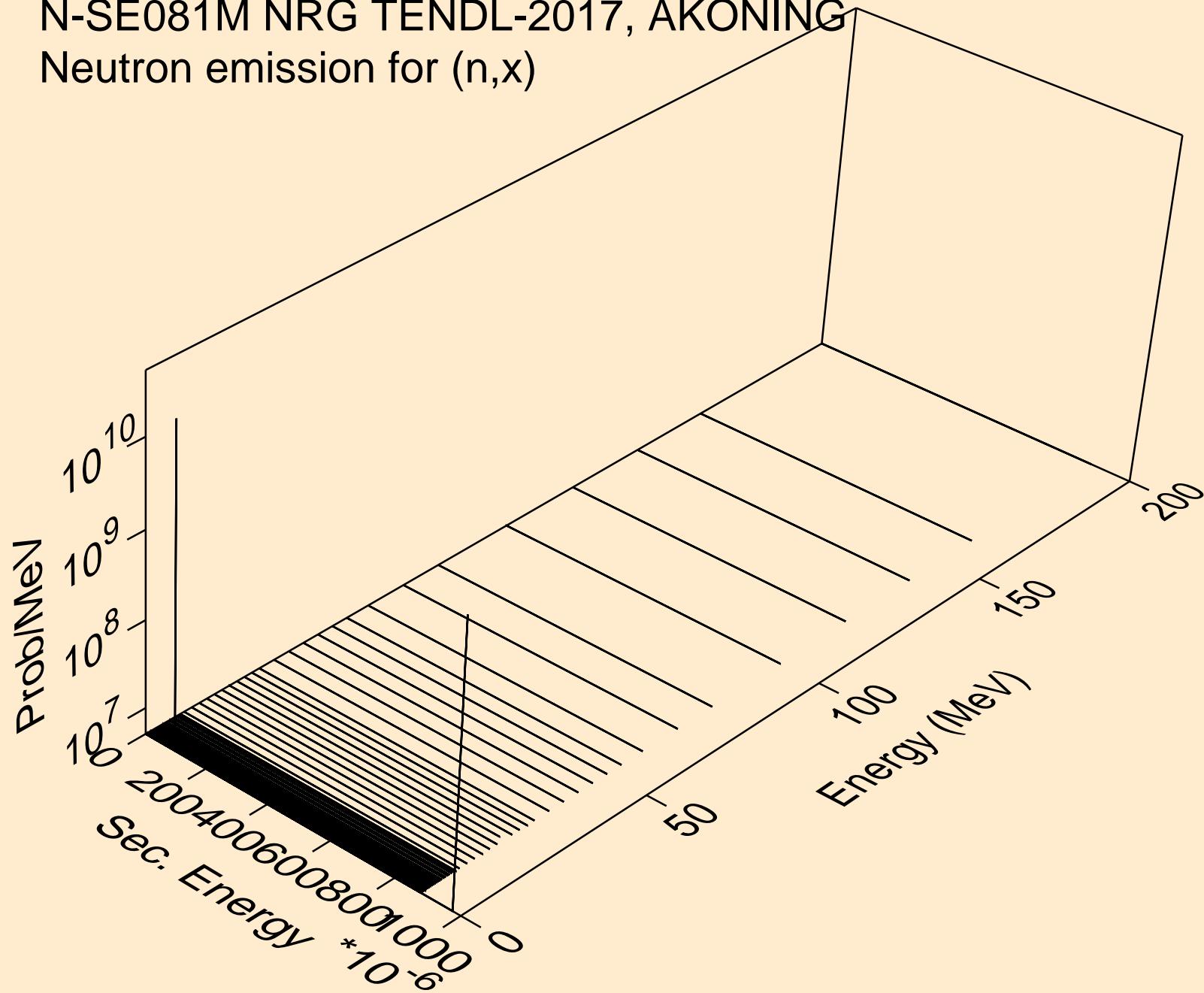
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angular distribution for  $(n,n^*)^{28}$



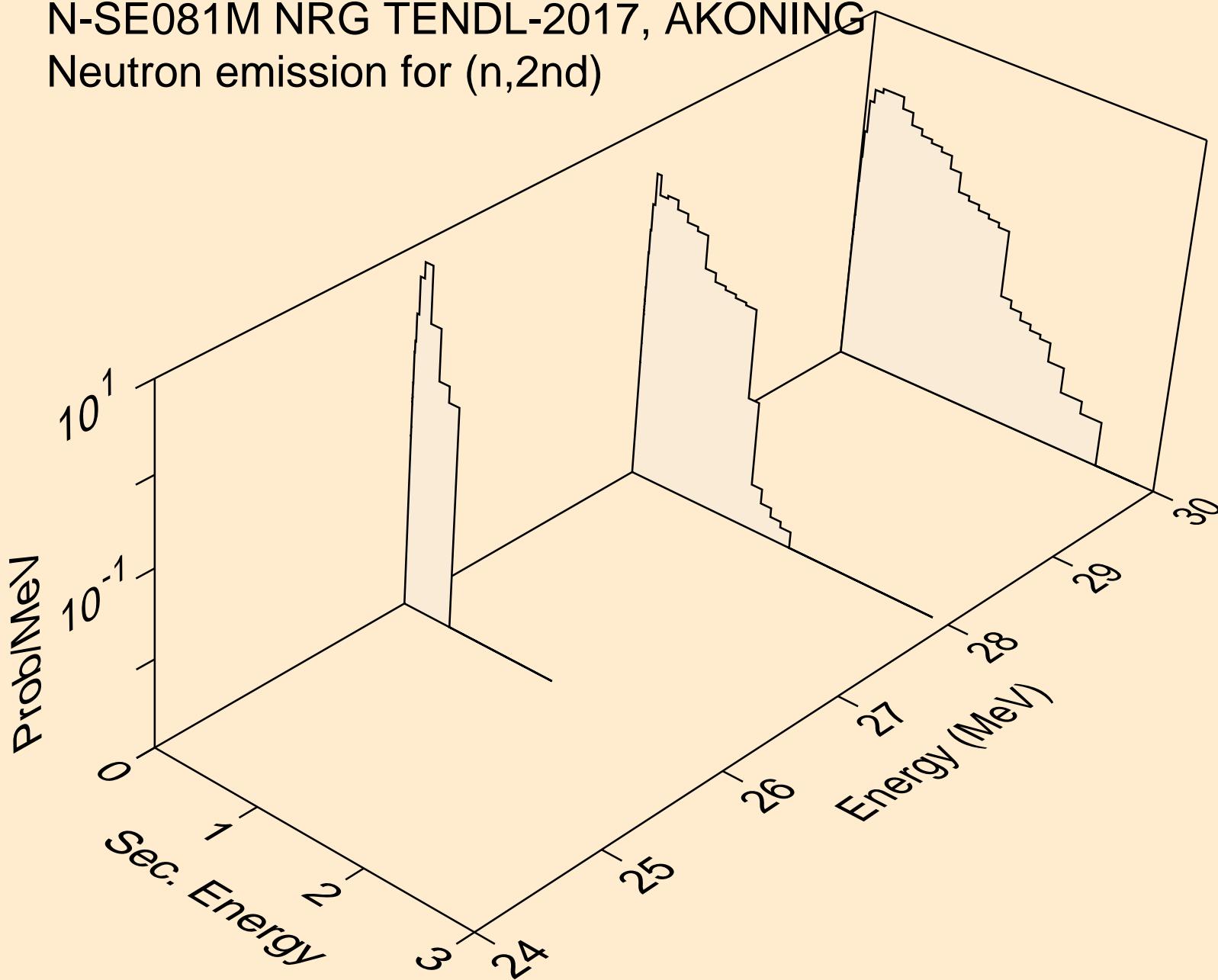
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angular distribution for (n,n\*29)



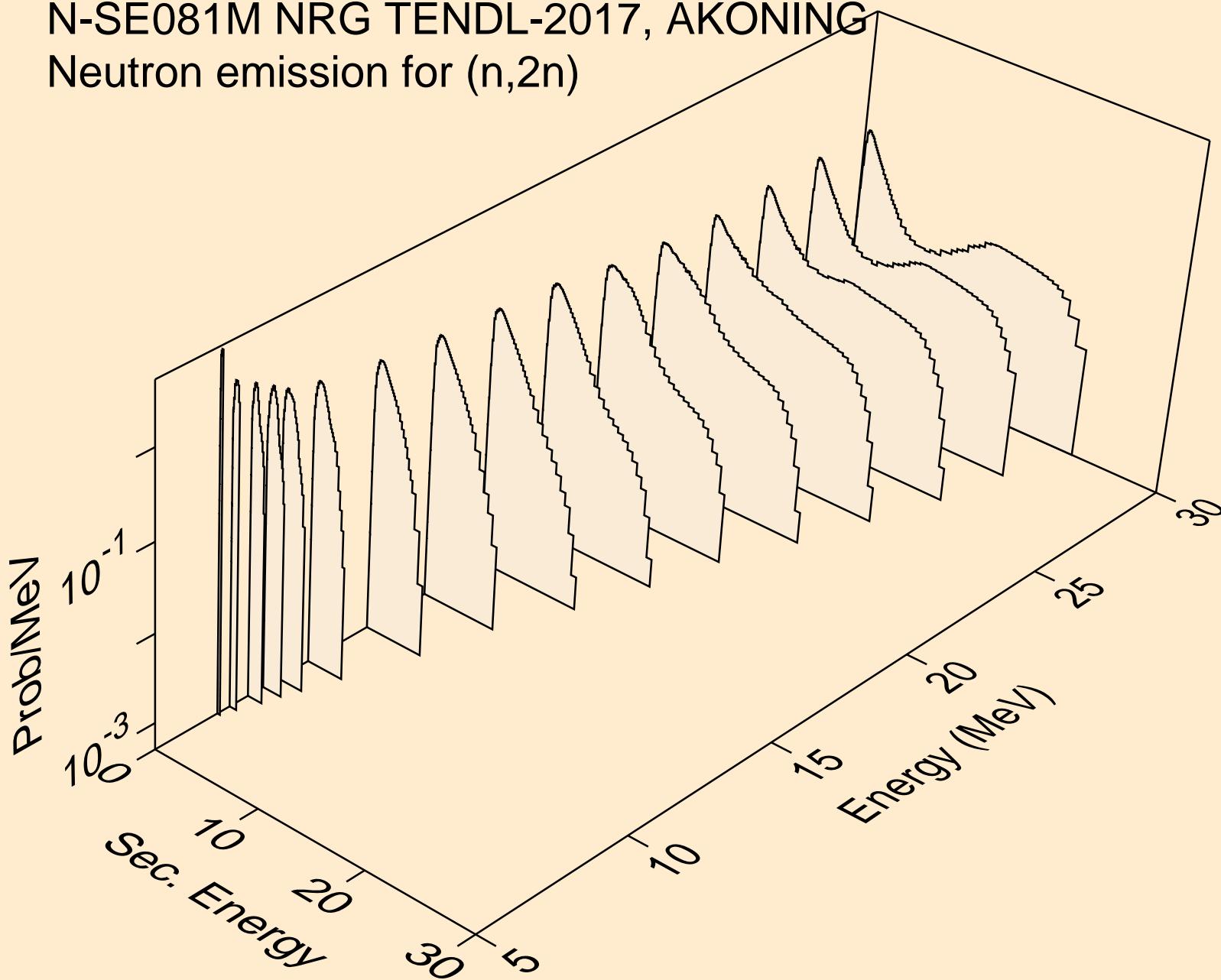
N-SE081M NRG TENDL-2017, AKONING  
Neutron emission for (n,x)



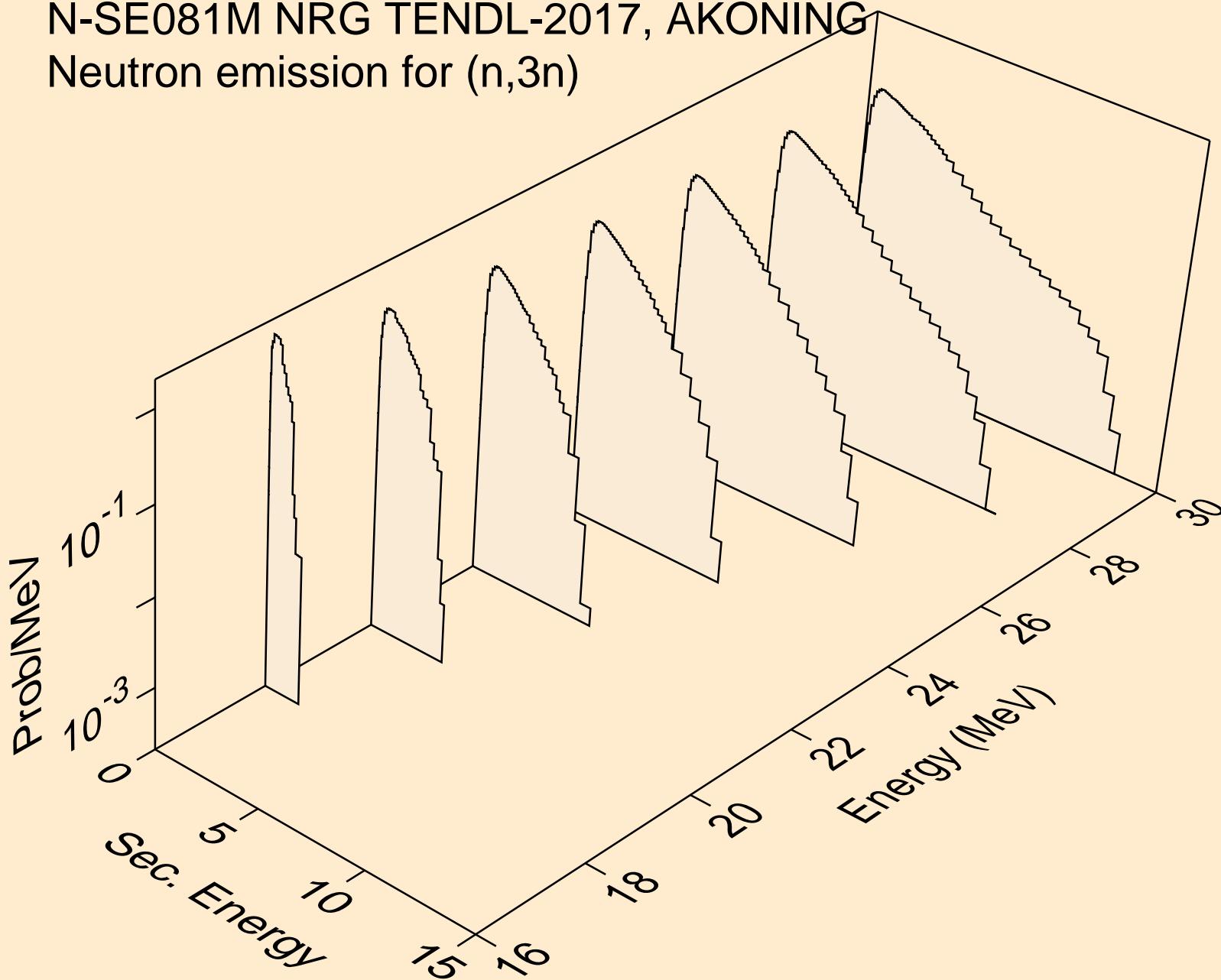
N-SE081M NRG TENDL-2017, AKONING  
Neutron emission for (n,2nd)



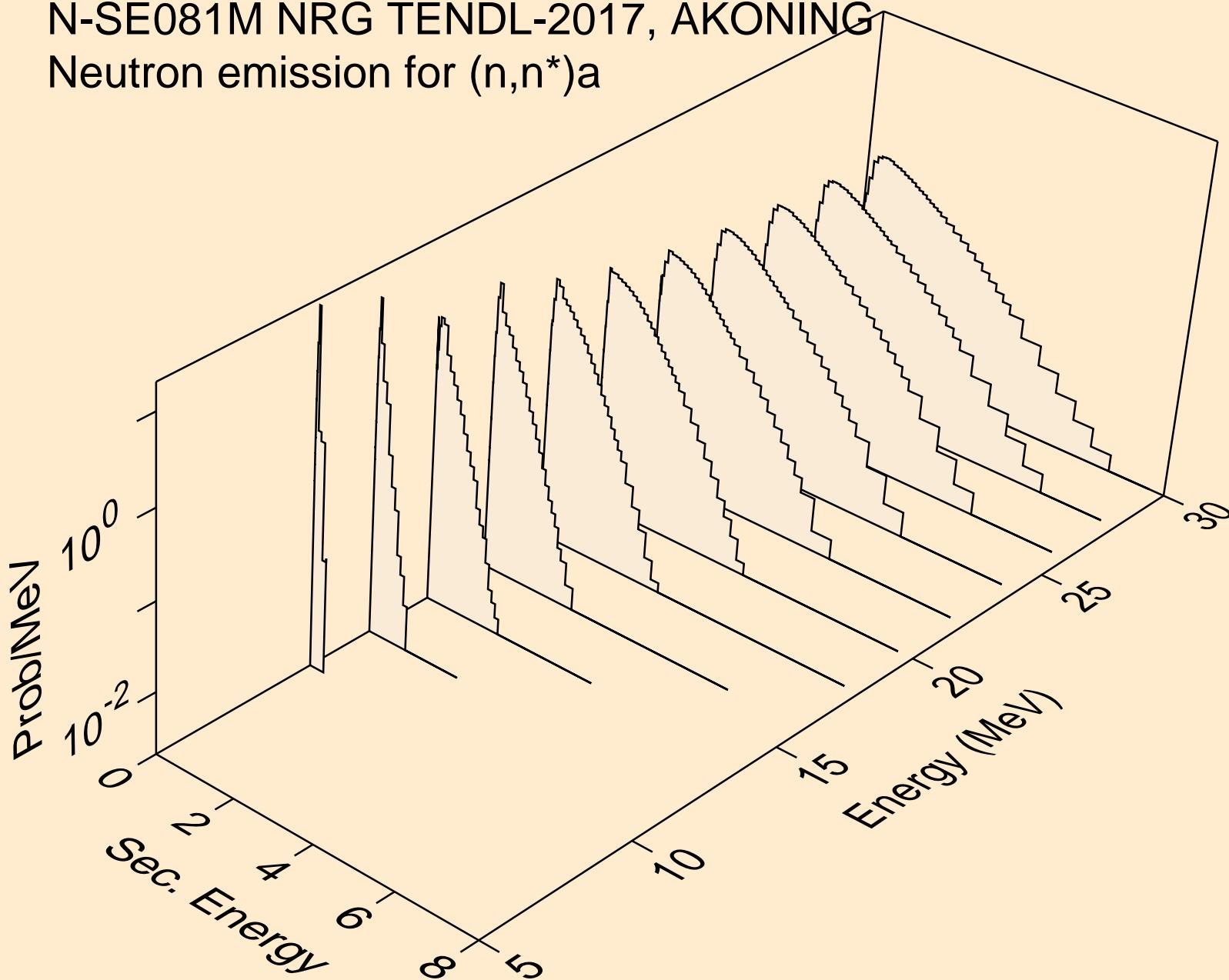
N-SE081M NRG TENDL-2017, AKONING  
Neutron emission for (n,2n)



N-SE081M NRG TENDL-2017, AKONING  
Neutron emission for (n,3n)

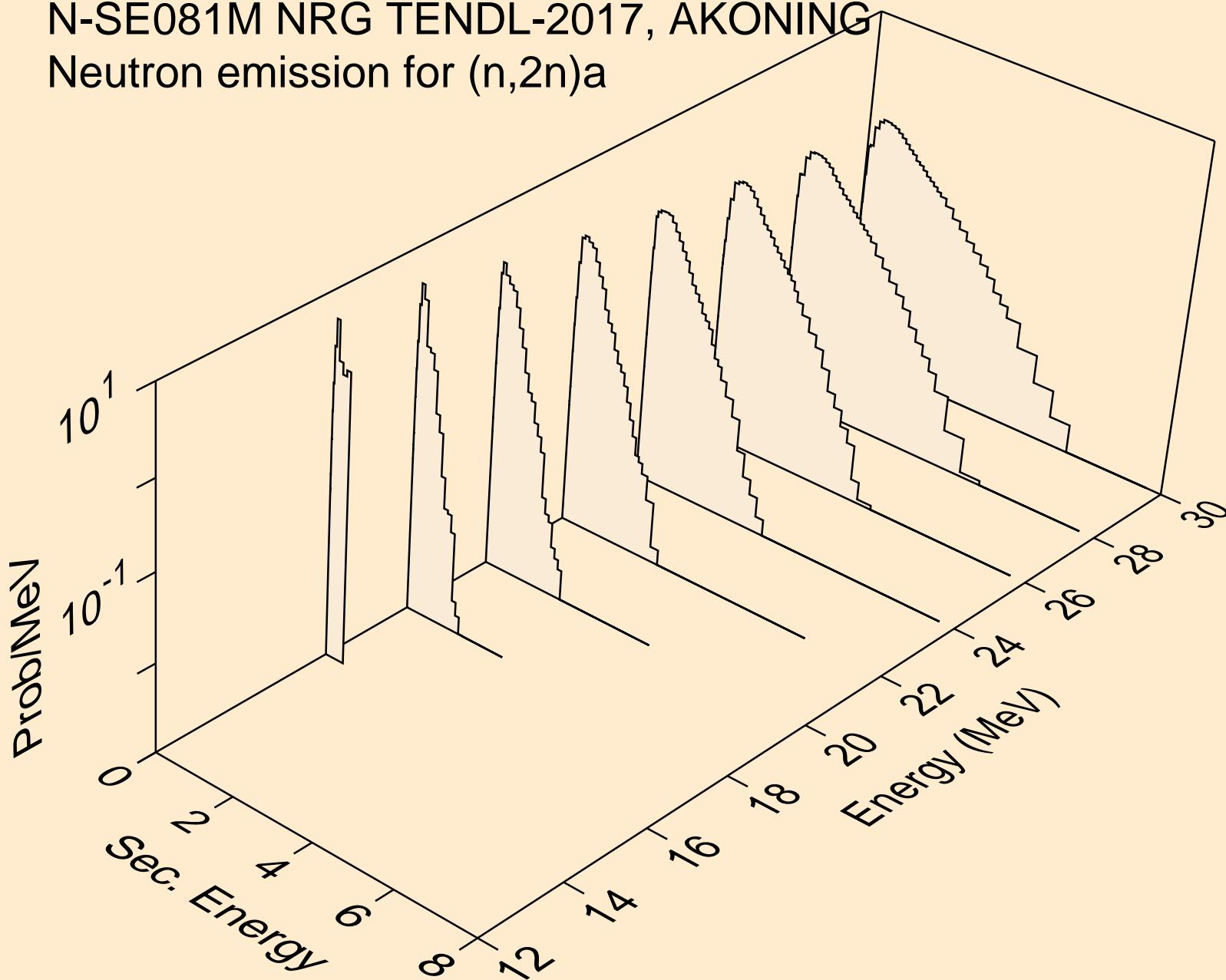


N-SE081M NRG TENDL-2017, AKONING  
Neutron emission for  $(n,n^*)a$

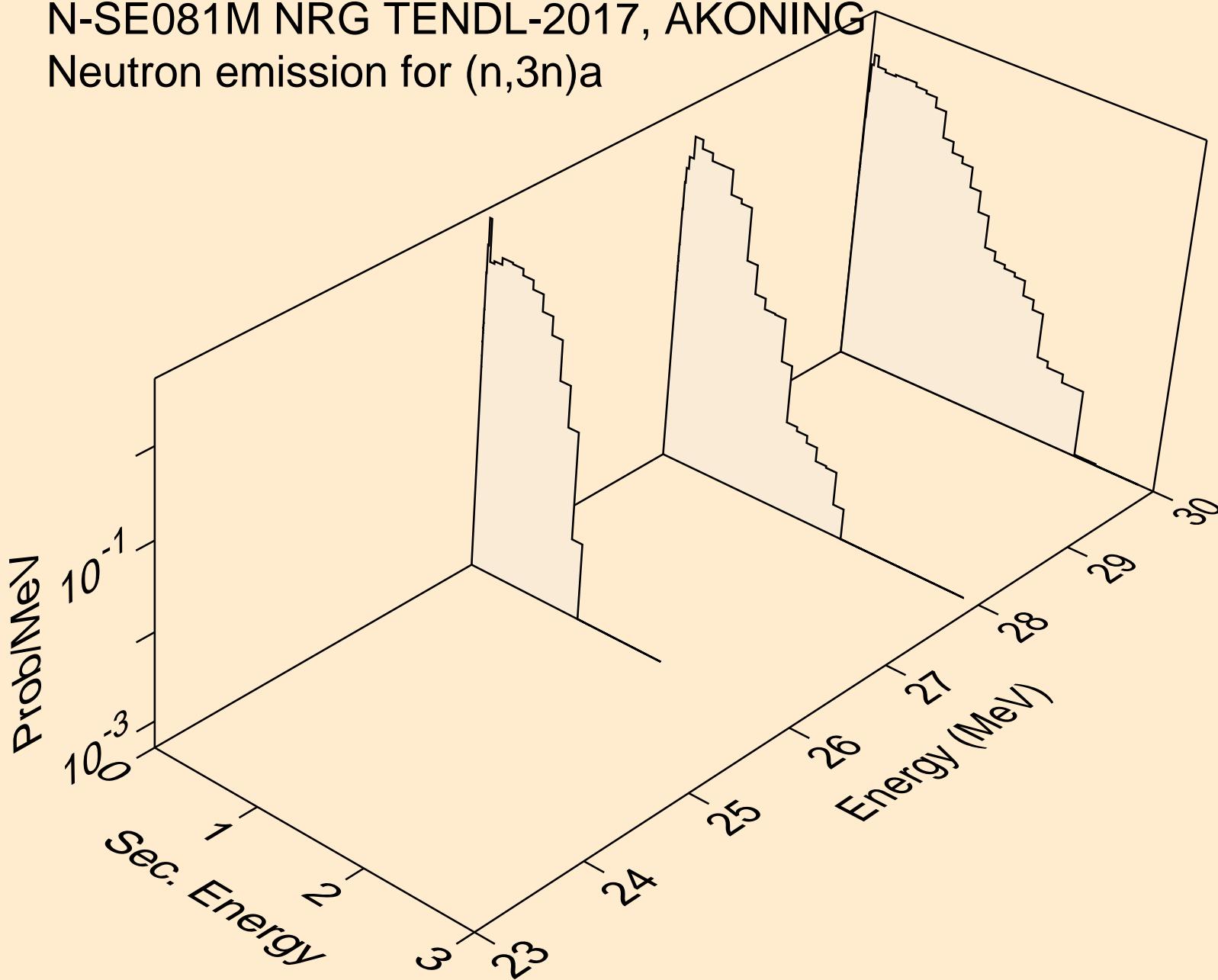


N-SE081M NRG TENDL-2017, AKONING

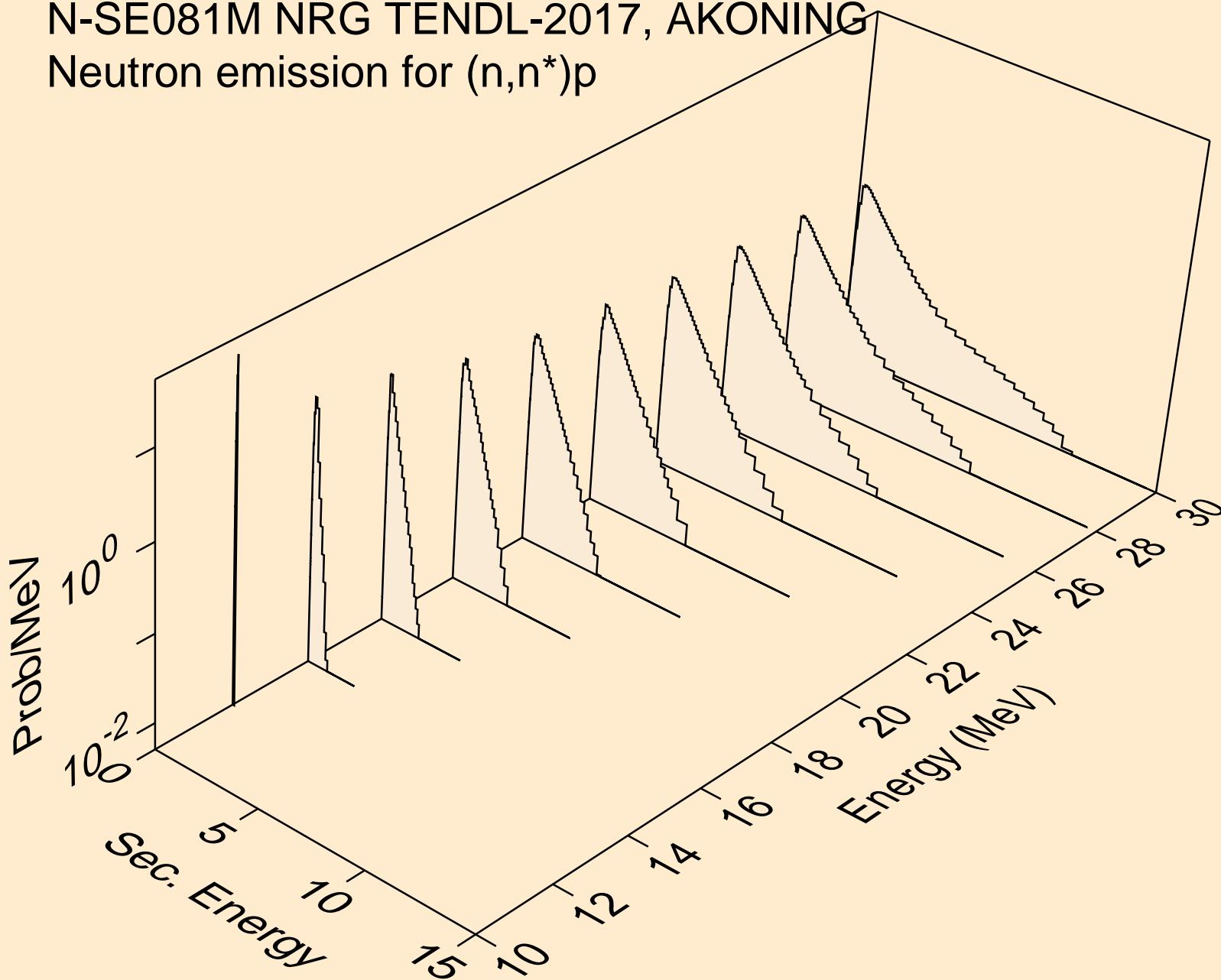
Neutron emission for (n,2n)a



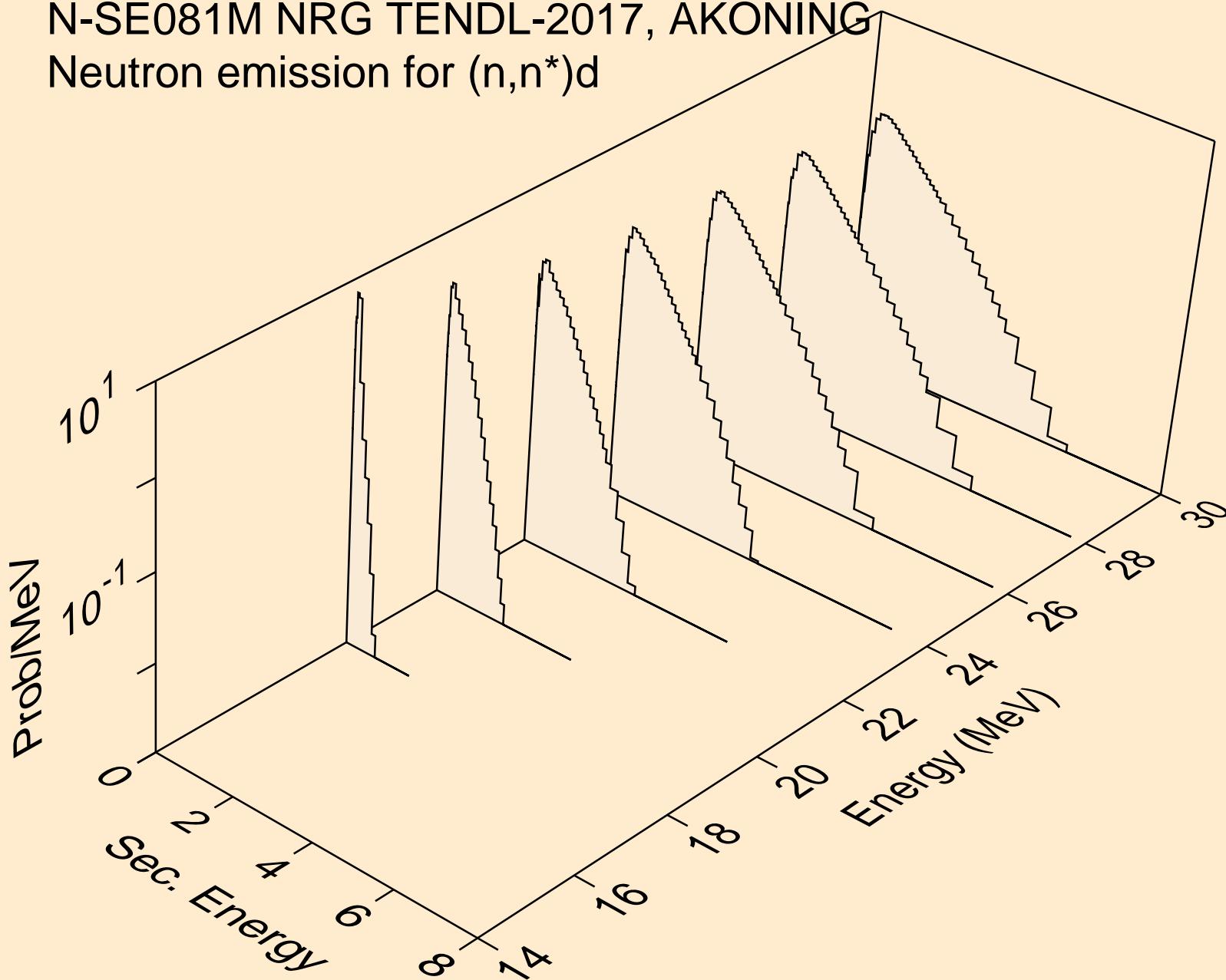
N-SE081M NRG TENDL-2017, AKONING  
Neutron emission for (n,3n)a



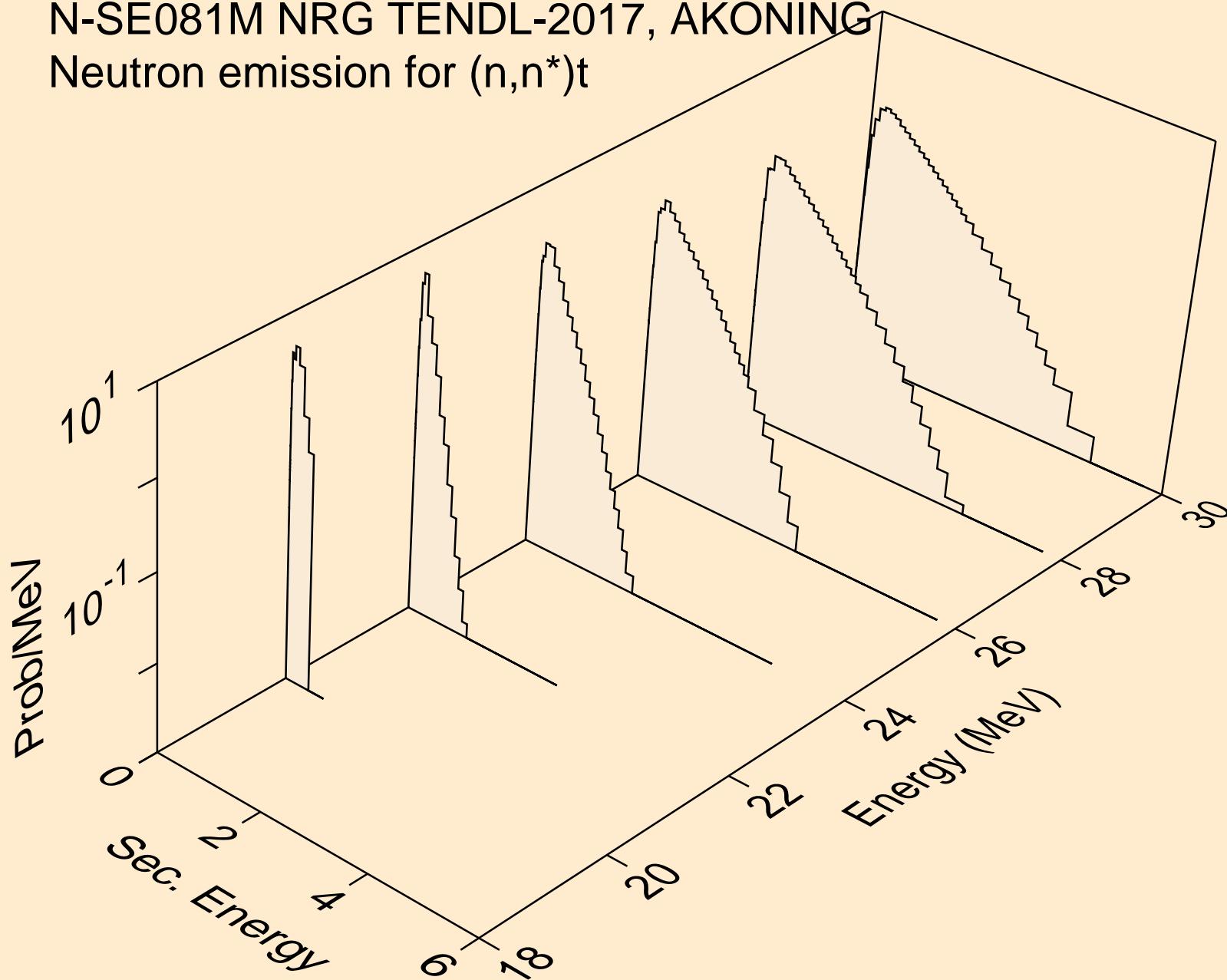
N-SE081M NRG TENDL-2017, AKONING  
Neutron emission for  $(n,n^*)p$



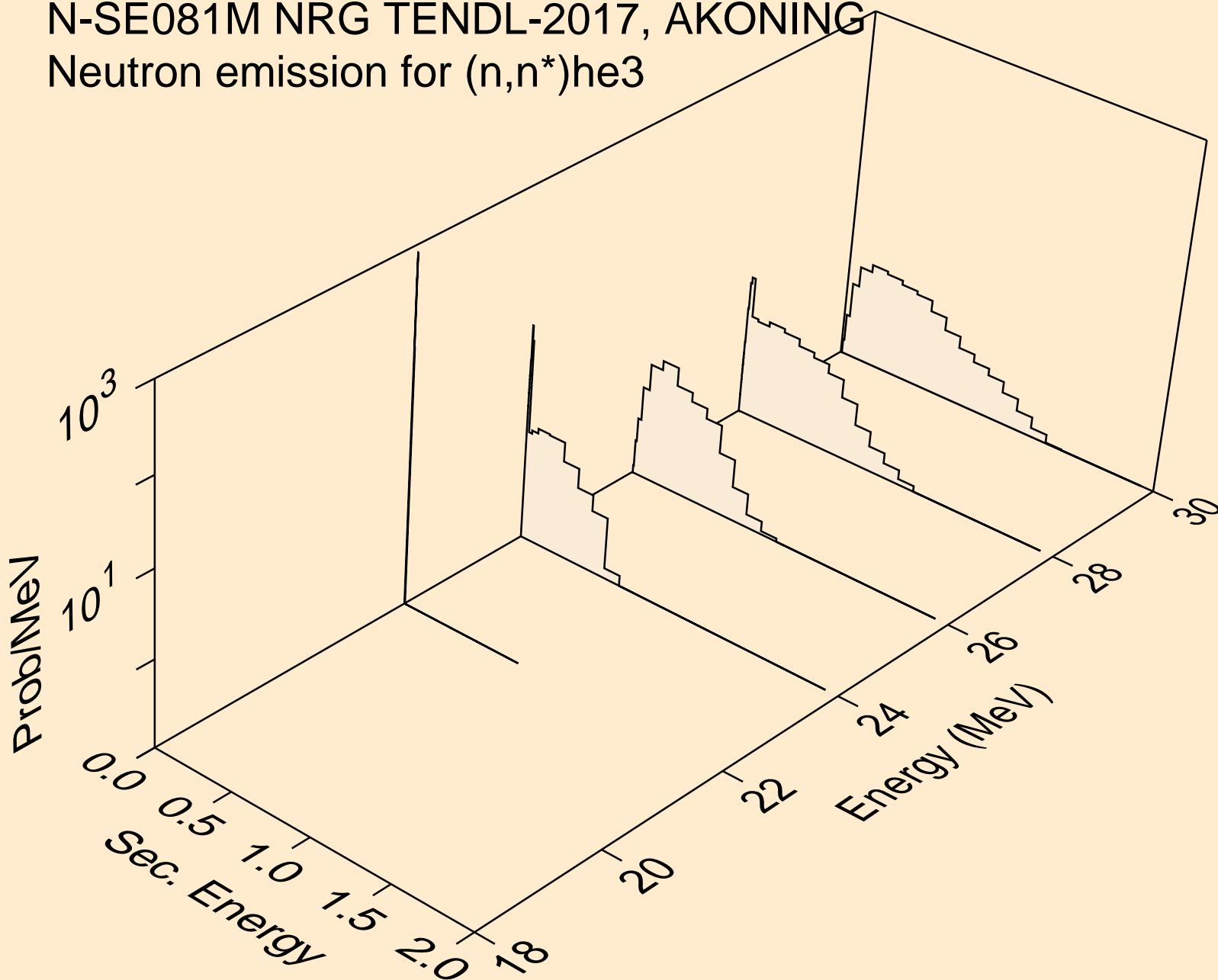
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Neutron emission for  $(n,n^*)d$



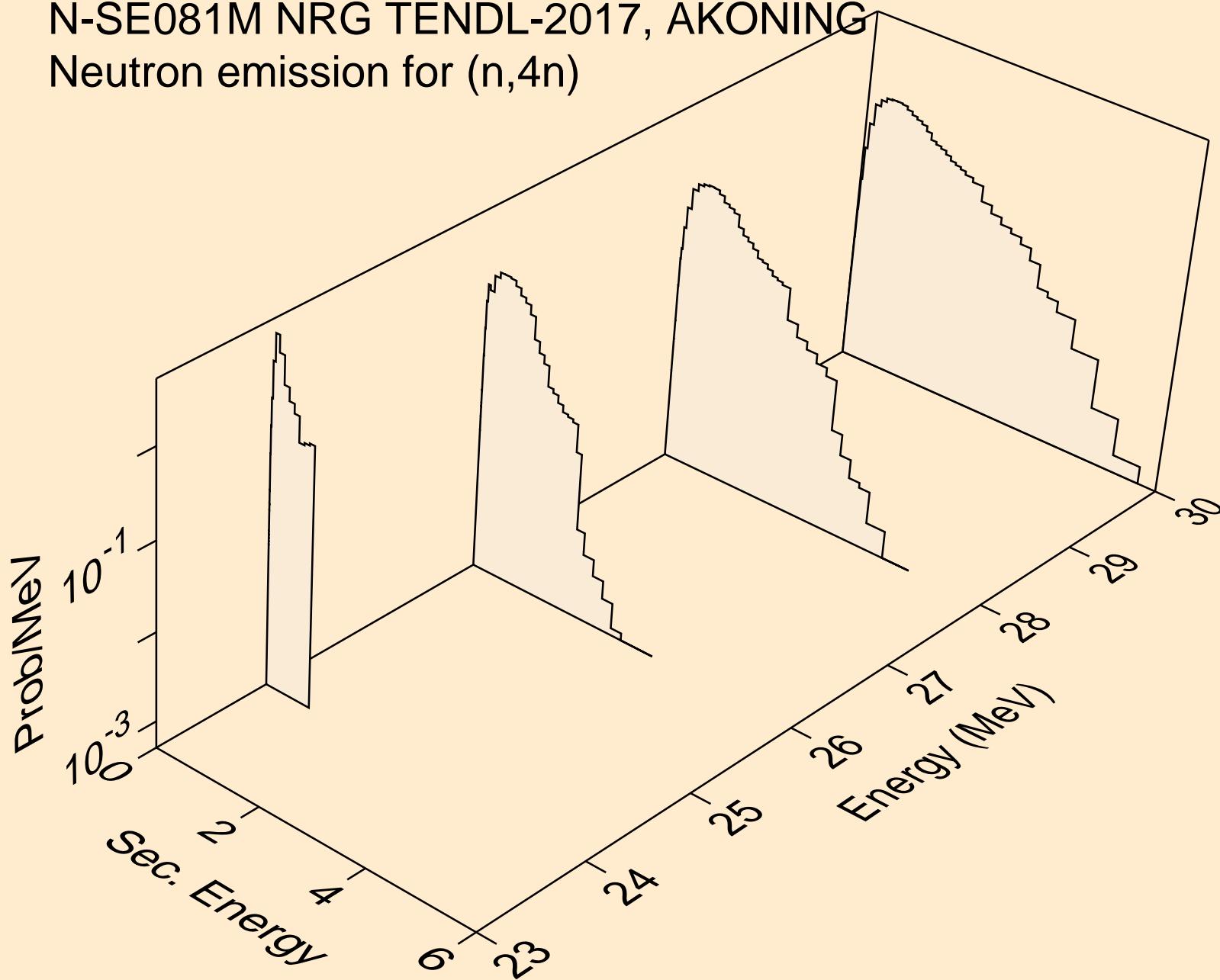
N-SE081M NRG TENDL-2017, AKONING  
Neutron emission for  $(n,n^*)t$



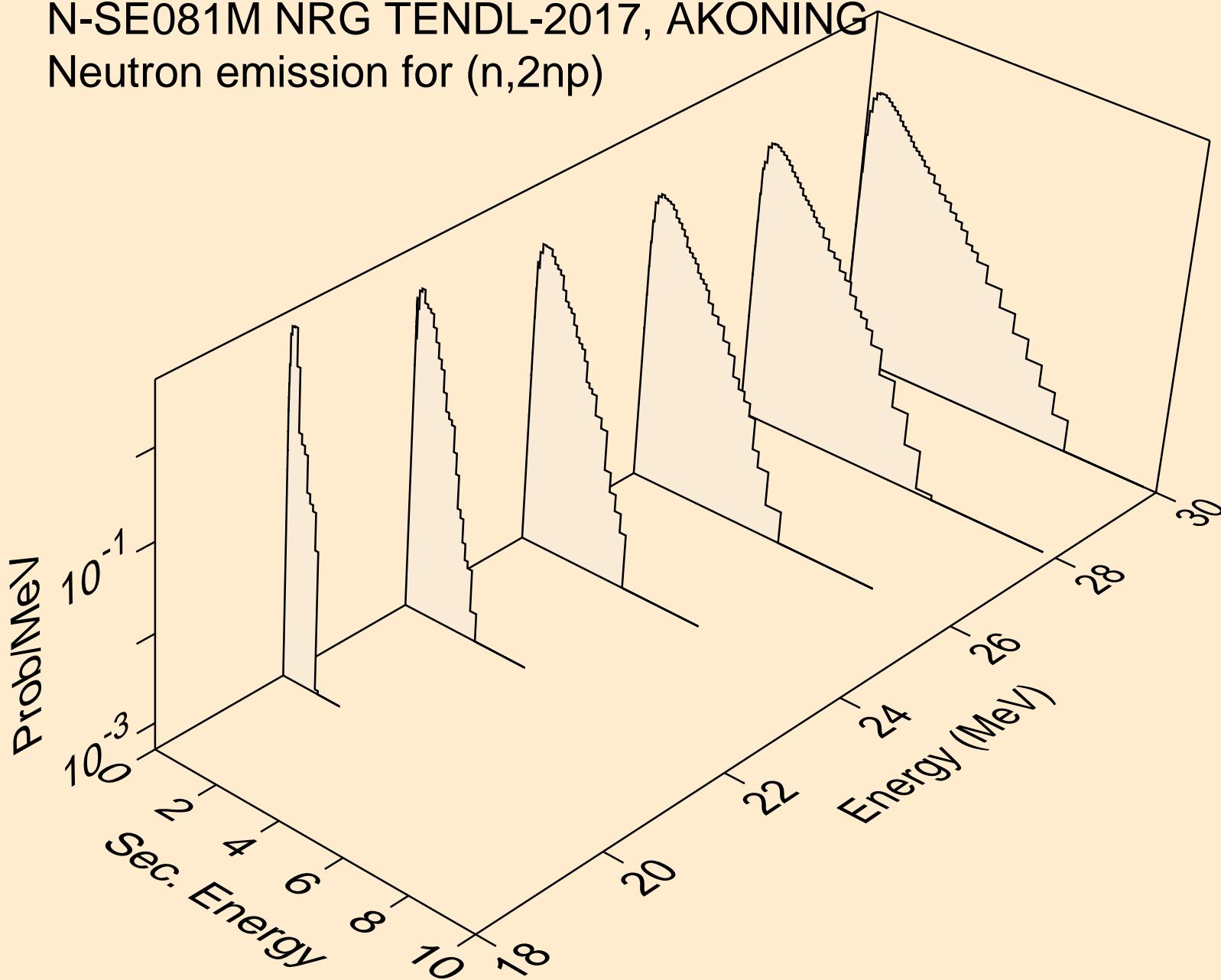
N-SE081M NRG TENDL-2017, AKONING  
Neutron emission for  $(n,n^*)\text{he3}$



N-SE081M NRG TENDL-2017, AKONING  
Neutron emission for (n,4n)

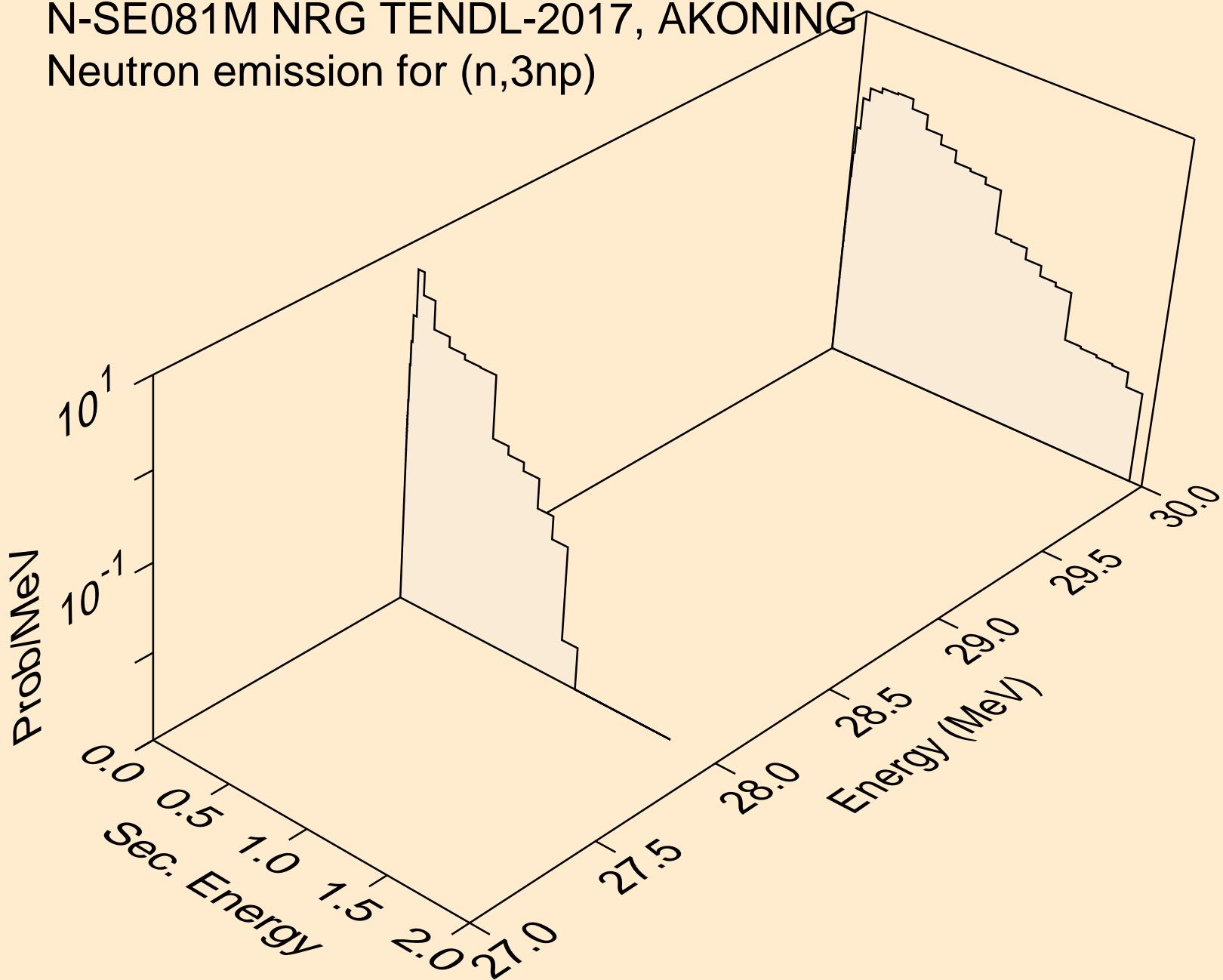


N-SE081M NRG TENDL-2017, AKONING  
Neutron emission for (n,2np)

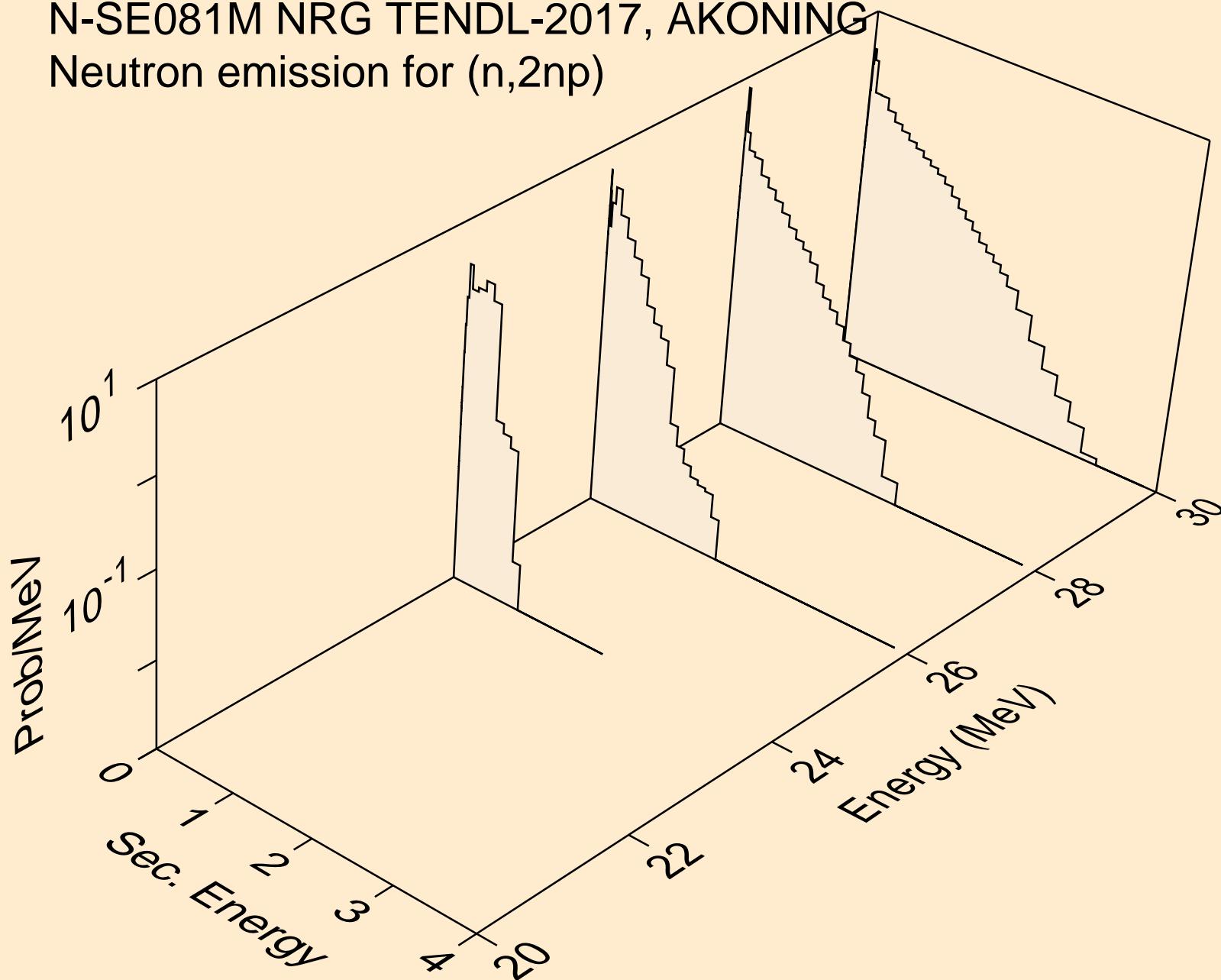


N-SE081M NRG TENDL-2017, AKONING

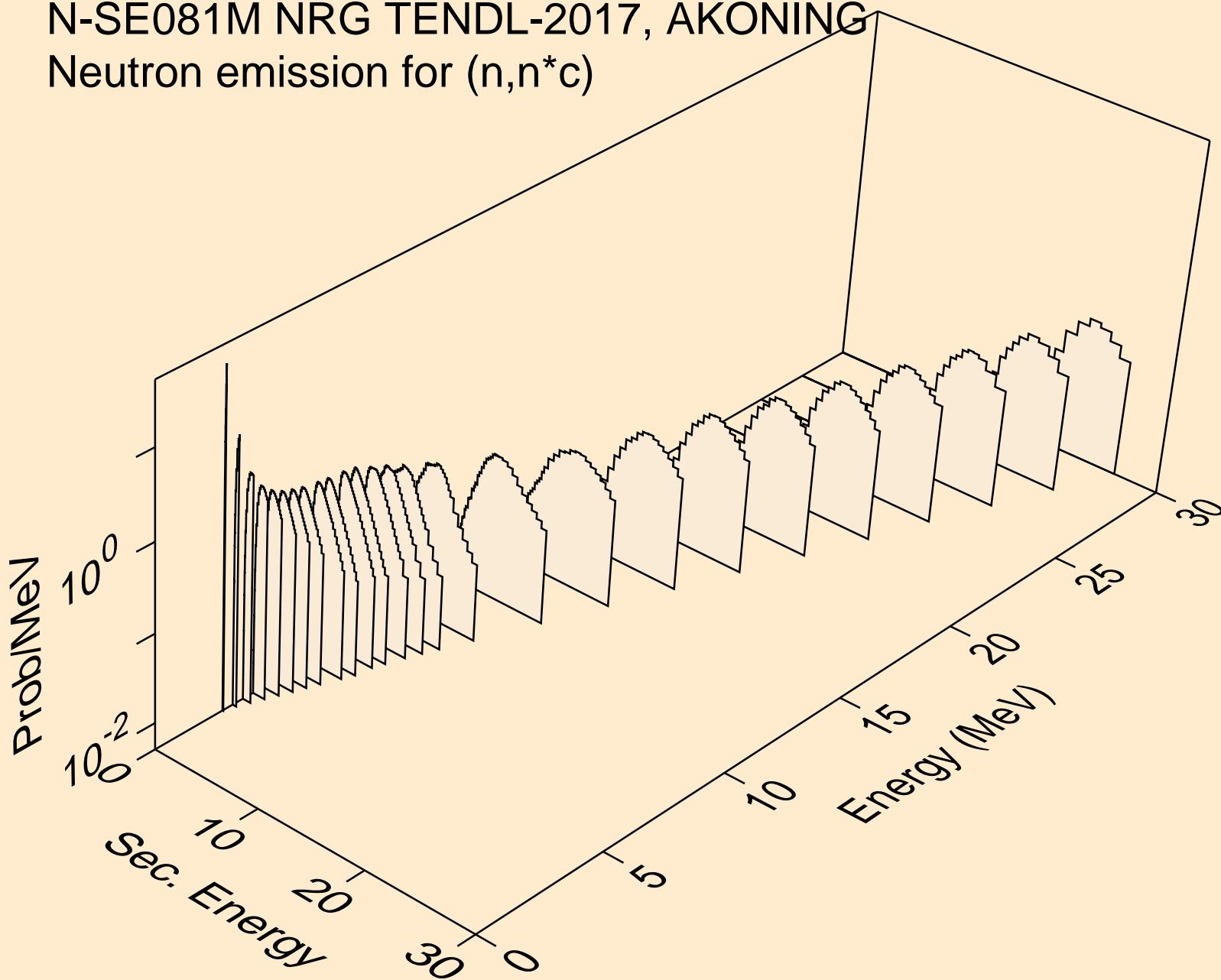
Neutron emission for (n,3np)



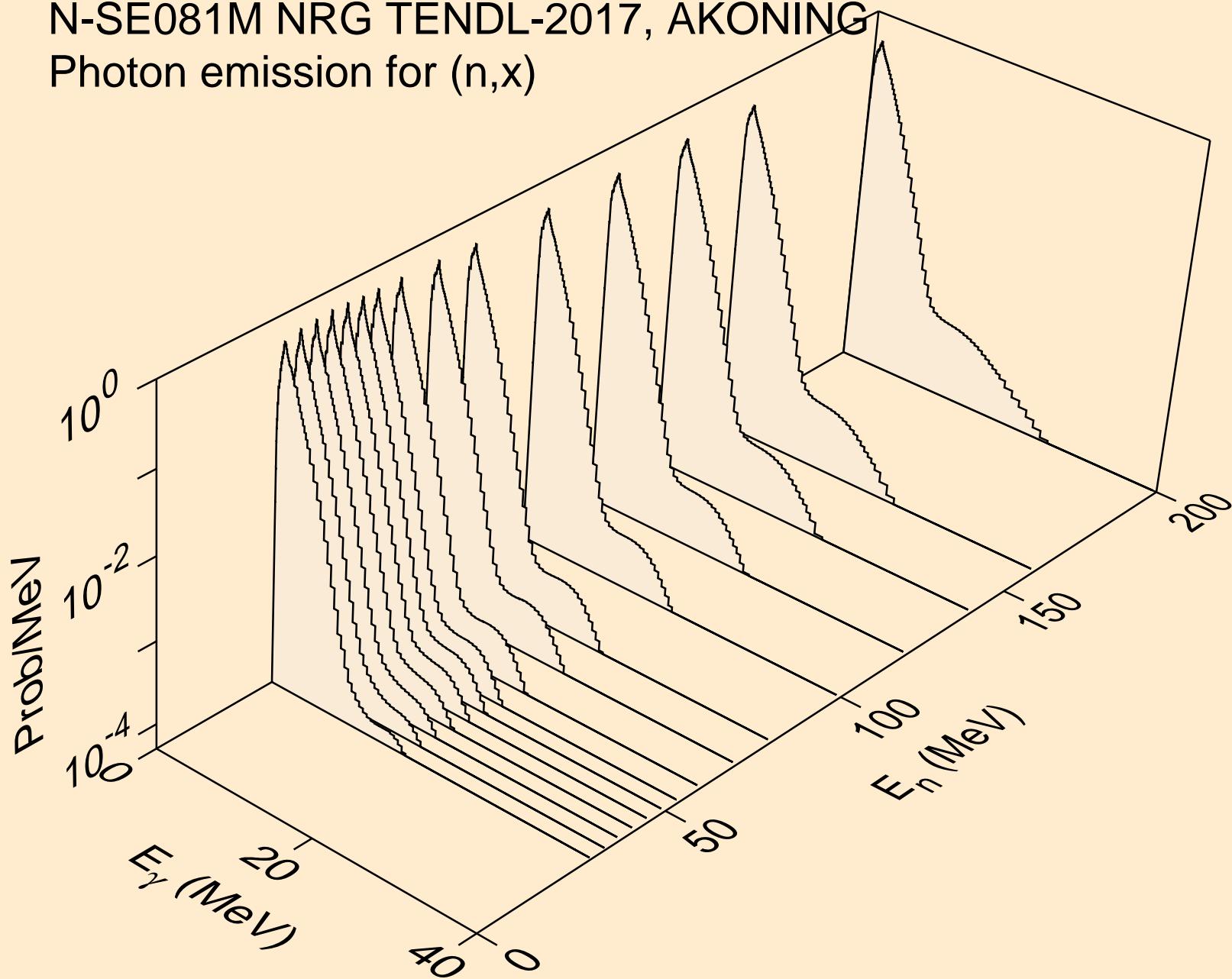
N-SE081M NRG TENDL-2017, AKONING  
Neutron emission for (n,2np)



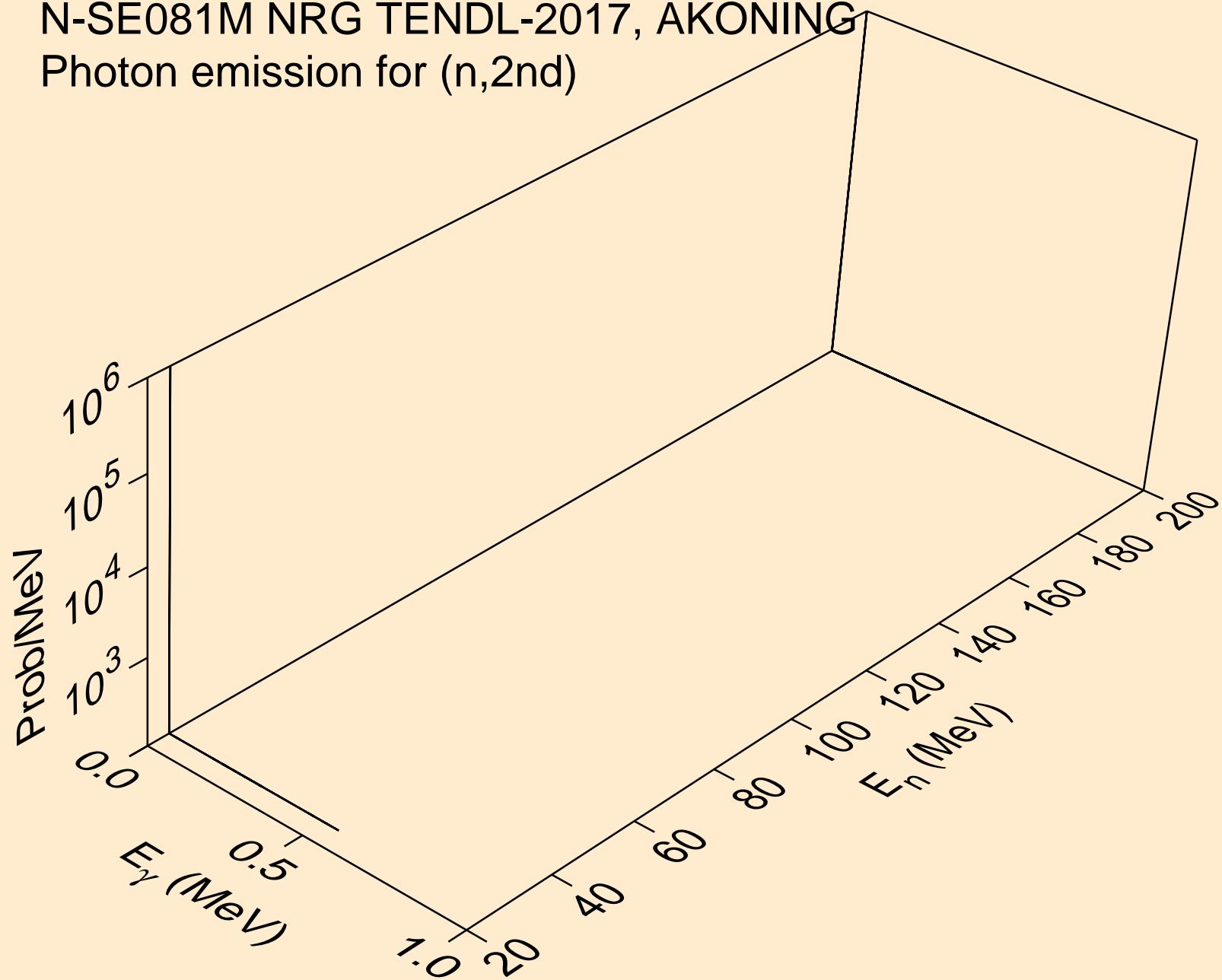
N-SE081M NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*c)



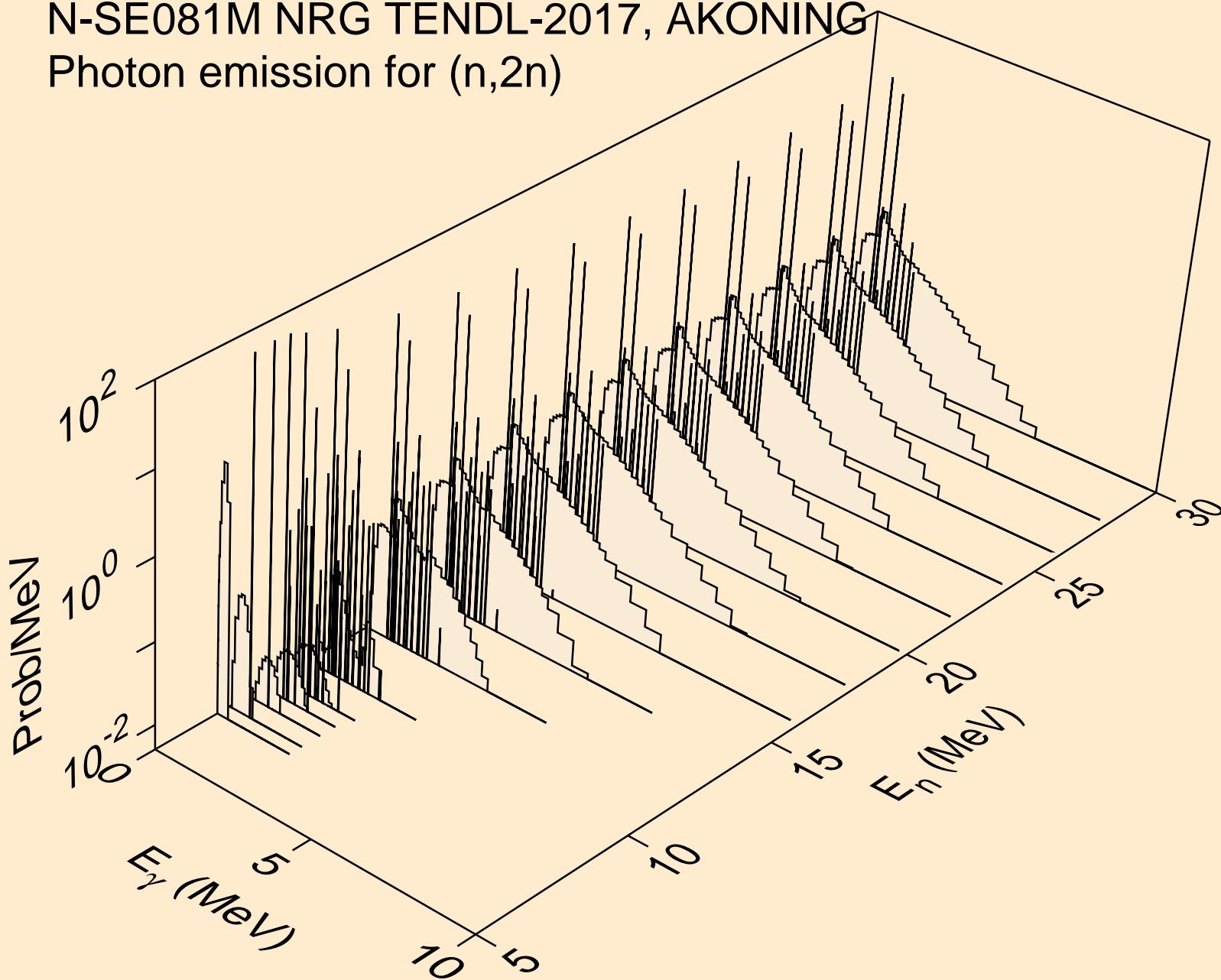
N-SE081M NRG TENDL-2017, AKONING  
Photon emission for (n,x)



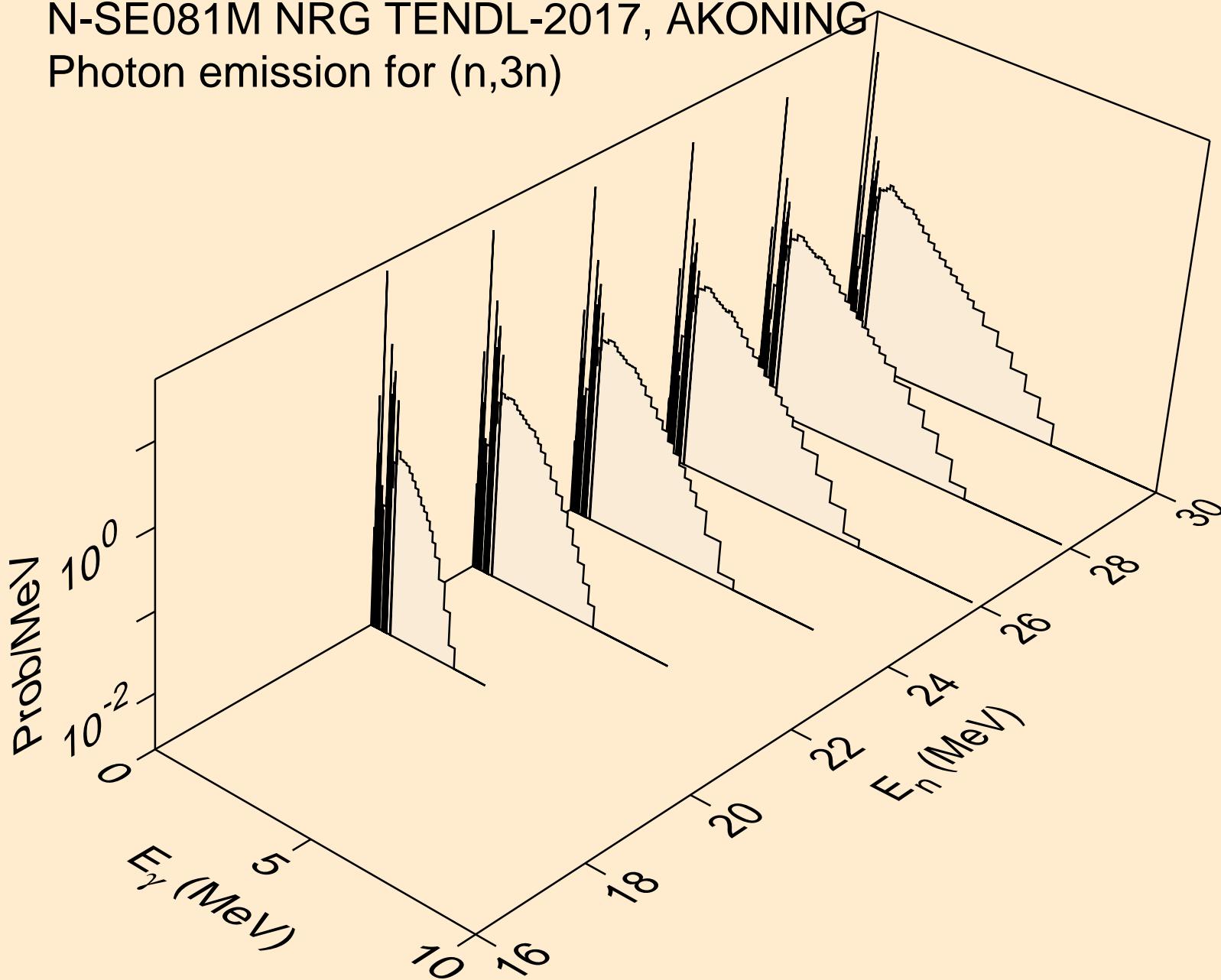
N-SE081M NRG TENDL-2017, AKONING  
Photon emission for (n,2nd)



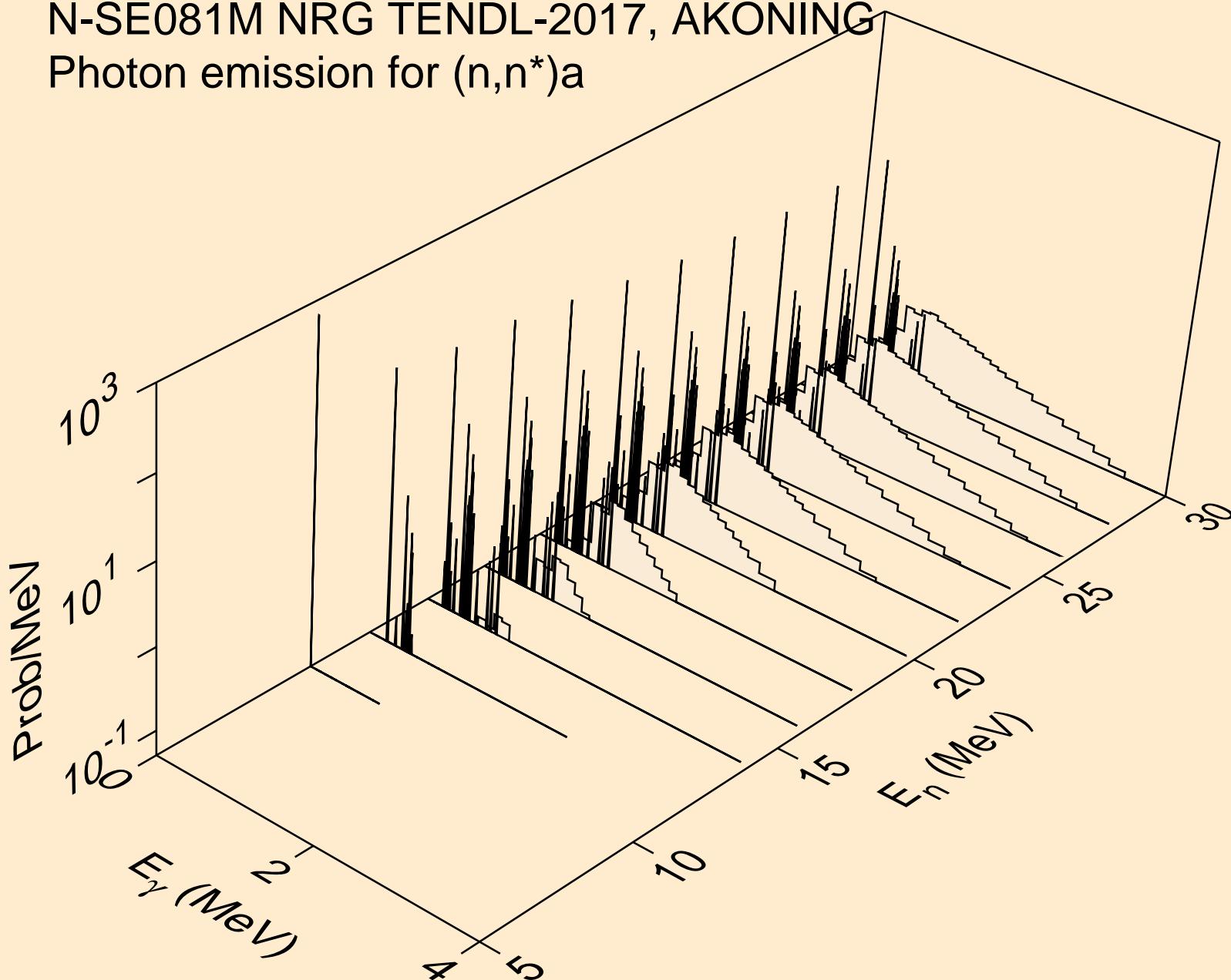
N-SE081M NRG TENDL-2017, AKONING  
Photon emission for (n,2n)



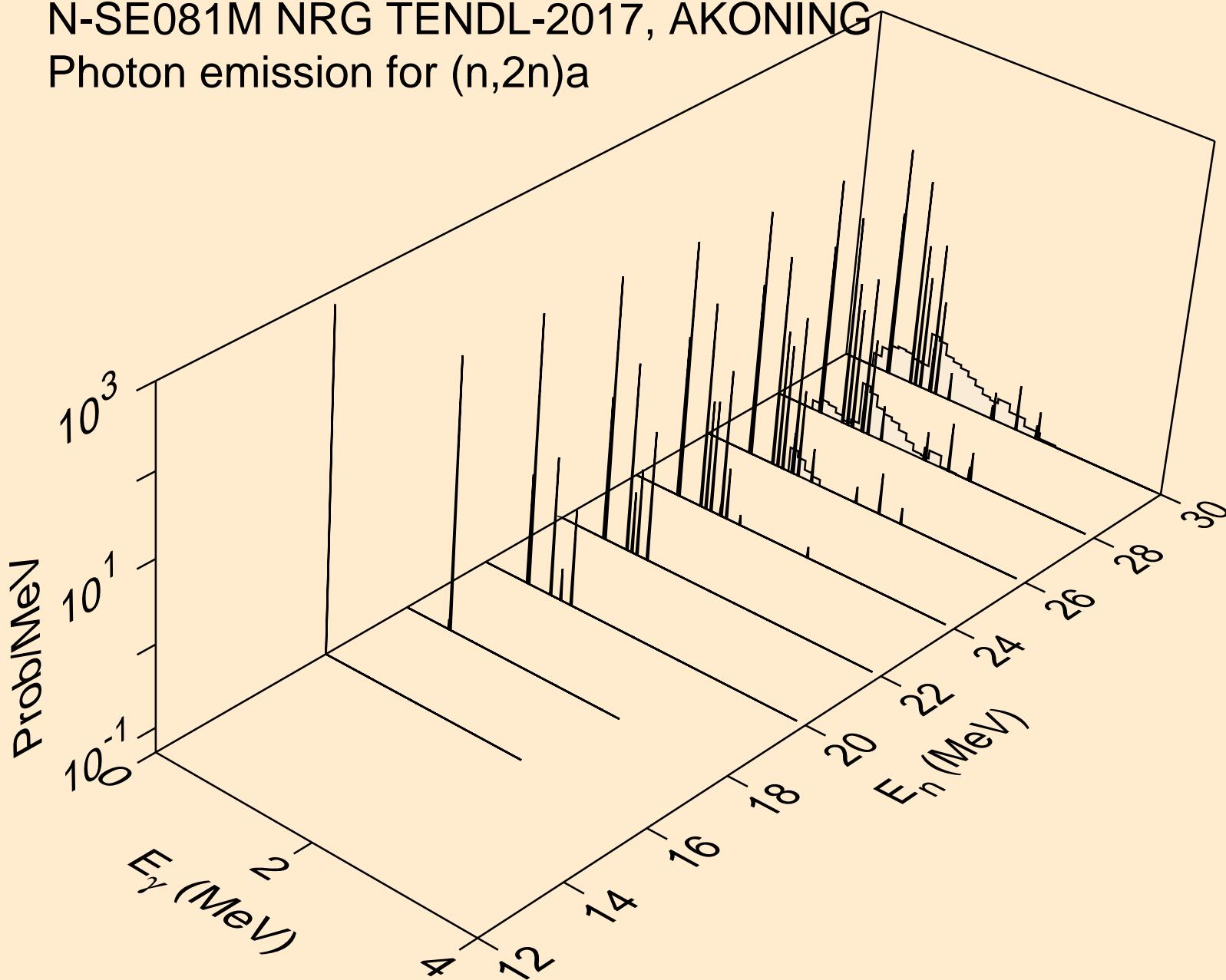
N-SE081M NRG TENDL-2017, AKONING  
Photon emission for (n,3n)



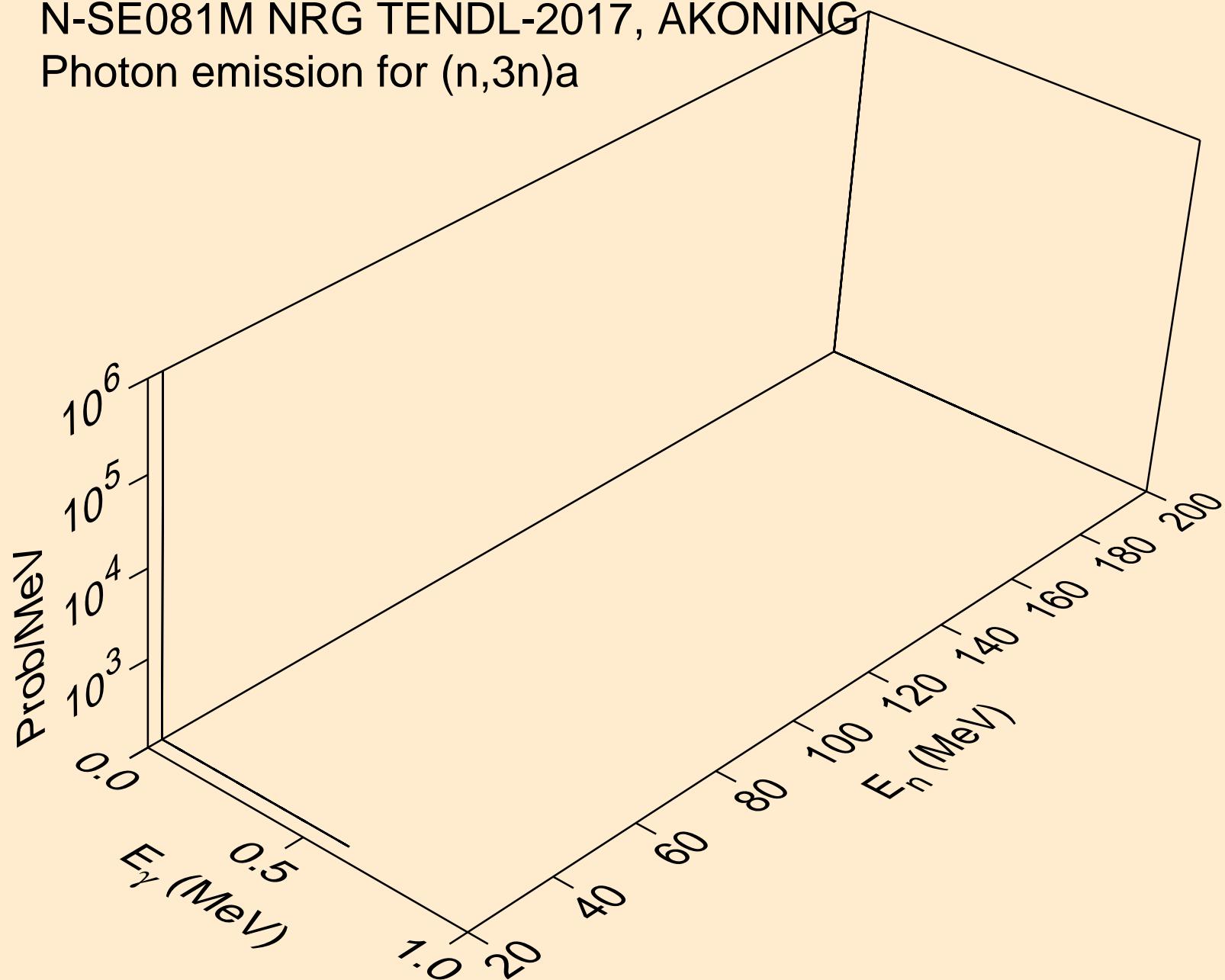
N-SE081M NRG TENDL-2017, AKONING  
Photon emission for  $(n,n^*)a$



N-SE081M NRG TENDL-2017, AKONING  
Photon emission for (n,2n)a

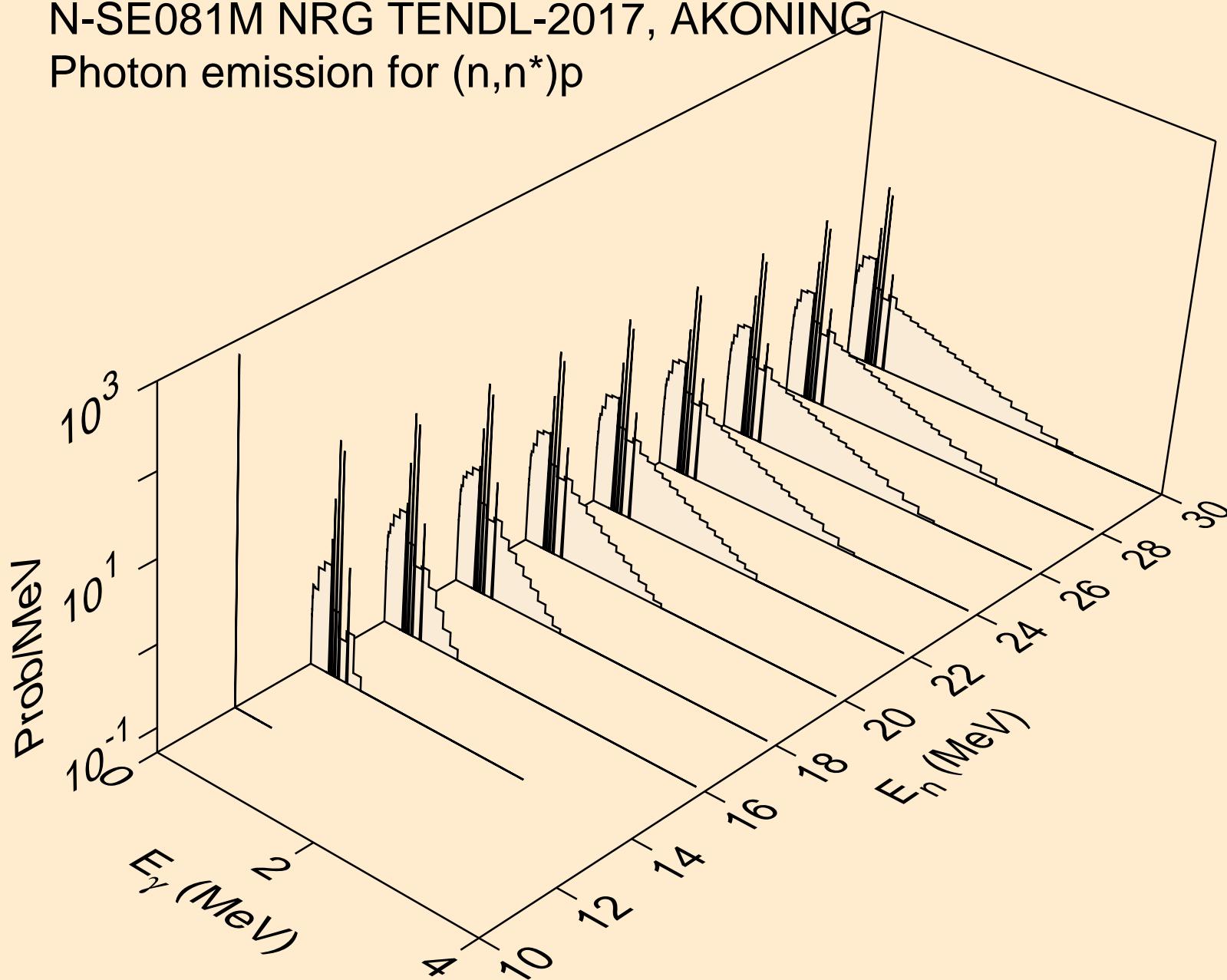


N-SE081M NRG TENDL-2017, AKONING  
Photon emission for (n,3n)a

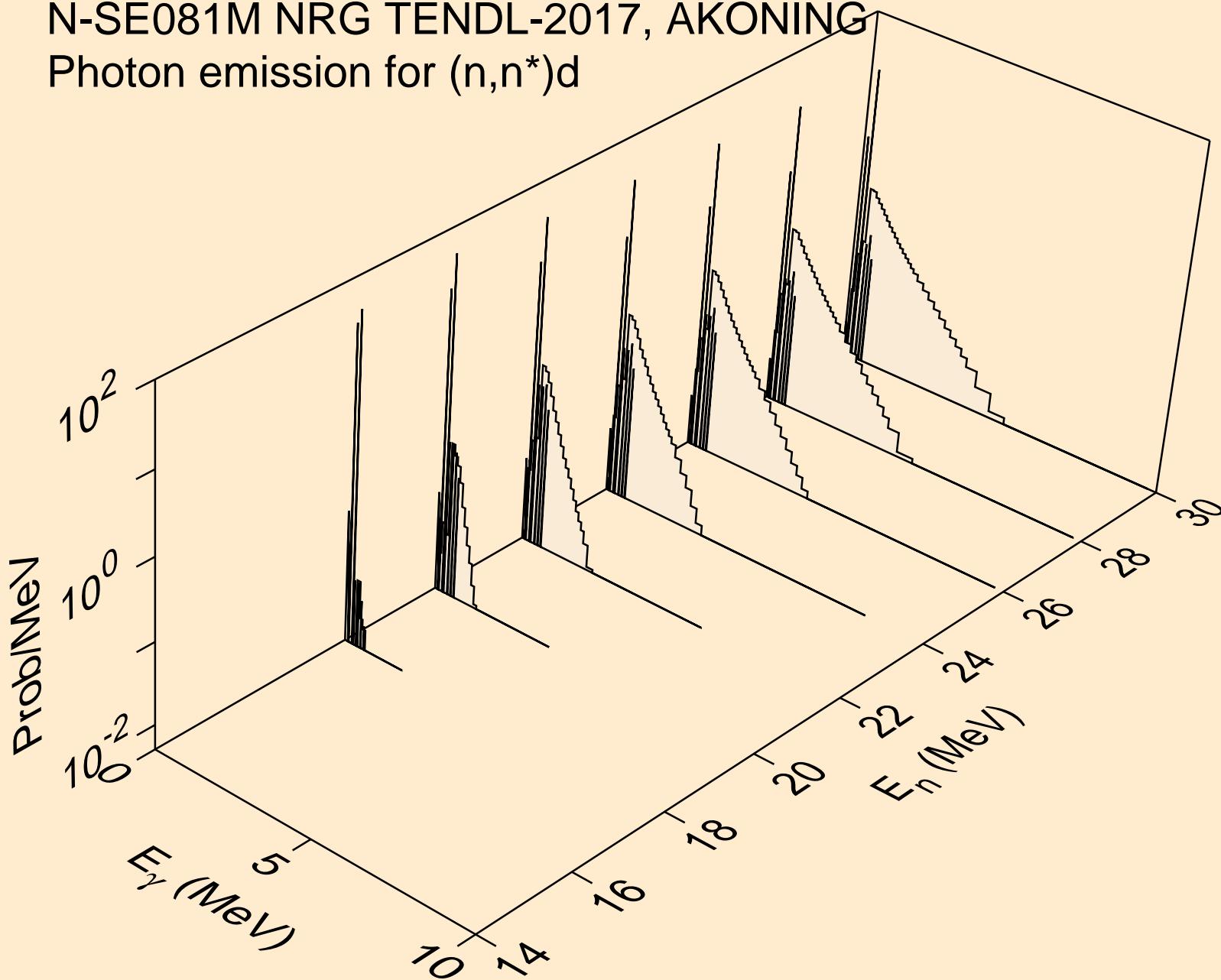


N-SE081M NRG TENDL-2017, AKONING

Photon emission for  $(n,n^*)p$

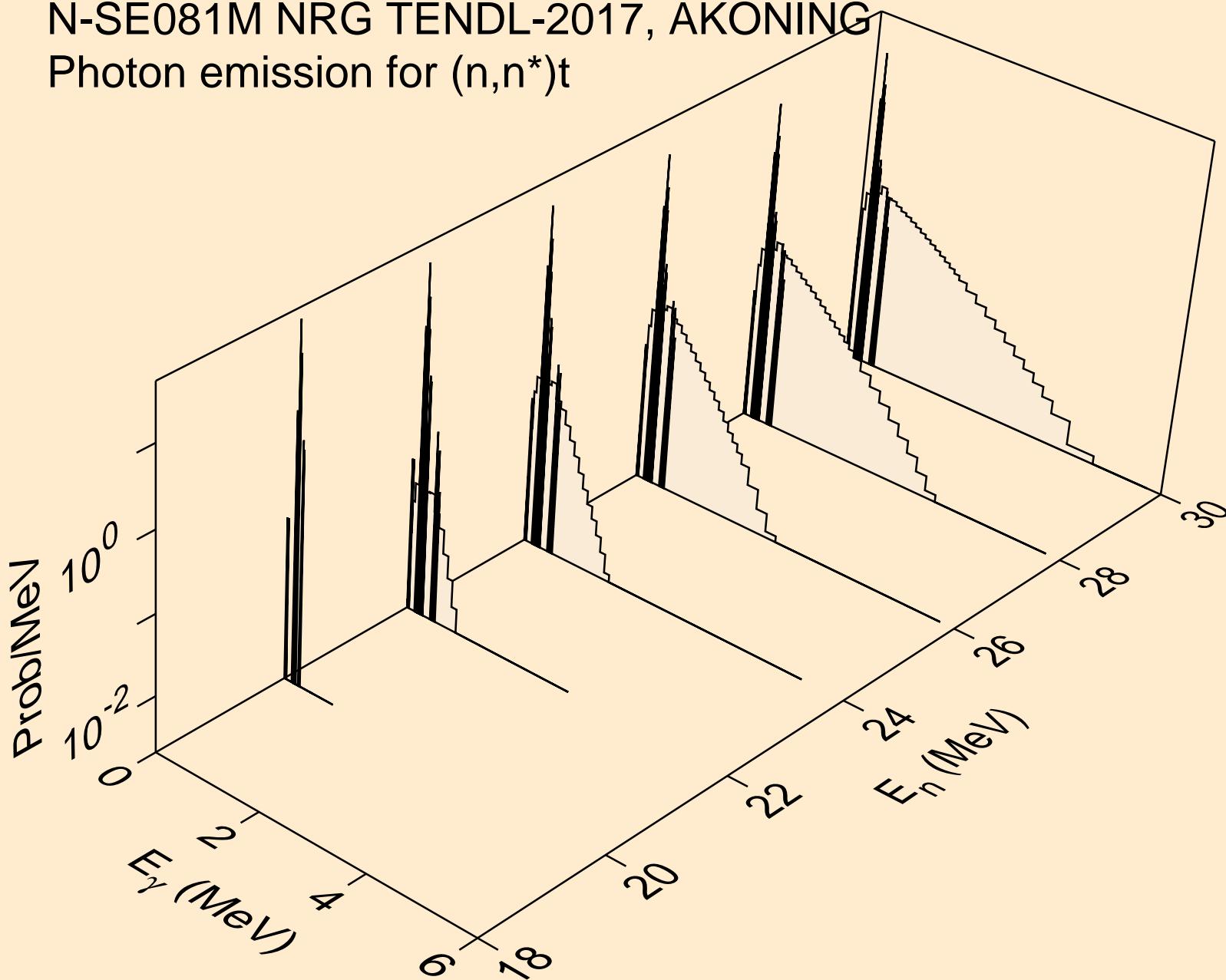


N-SE081M NRG TENDL-2017, AKONING  
Photon emission for  $(n,n^*)d$

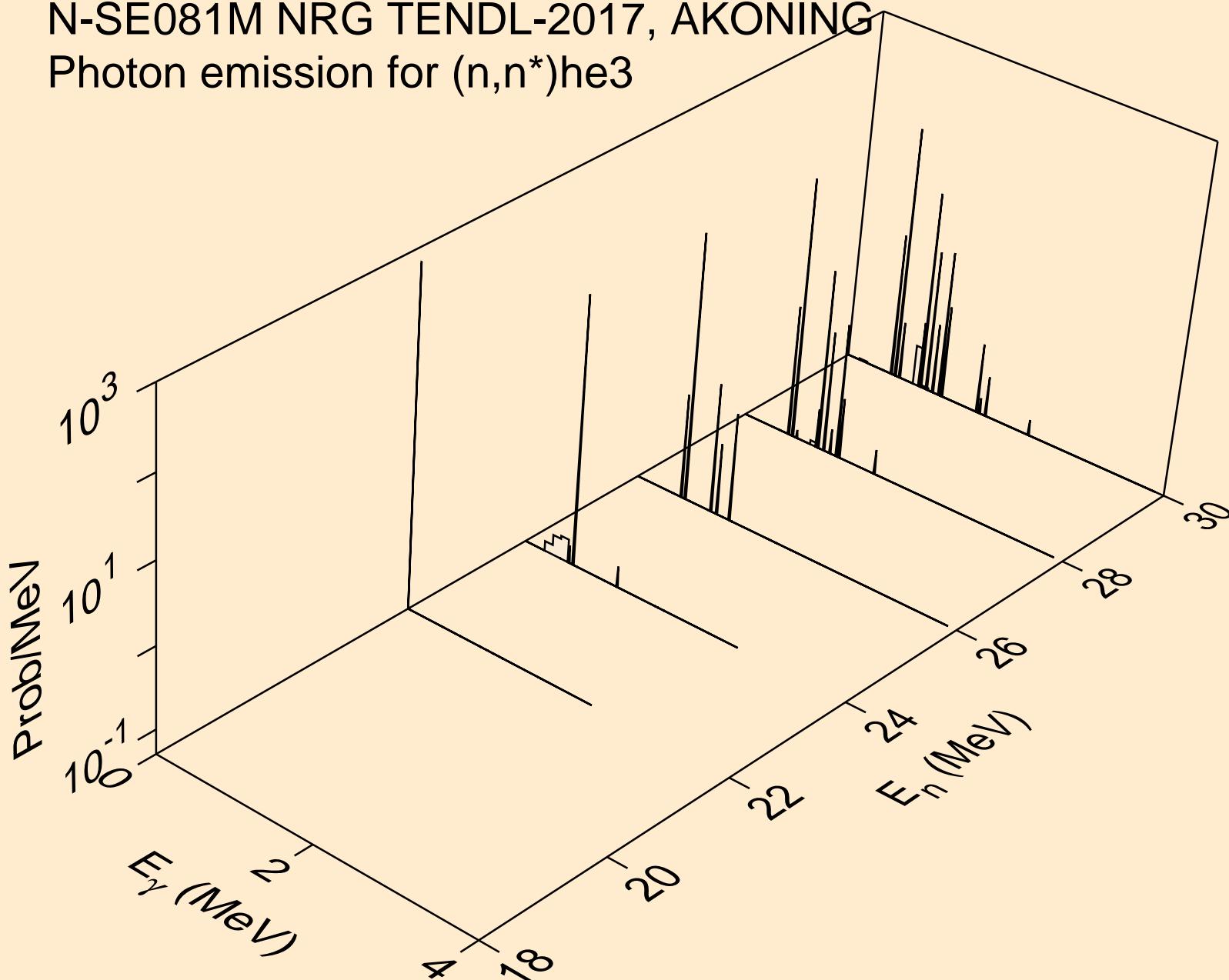


N-SE081M NRG TENDL-2017, AKONING

Photon emission for  $(n,n^*)t$

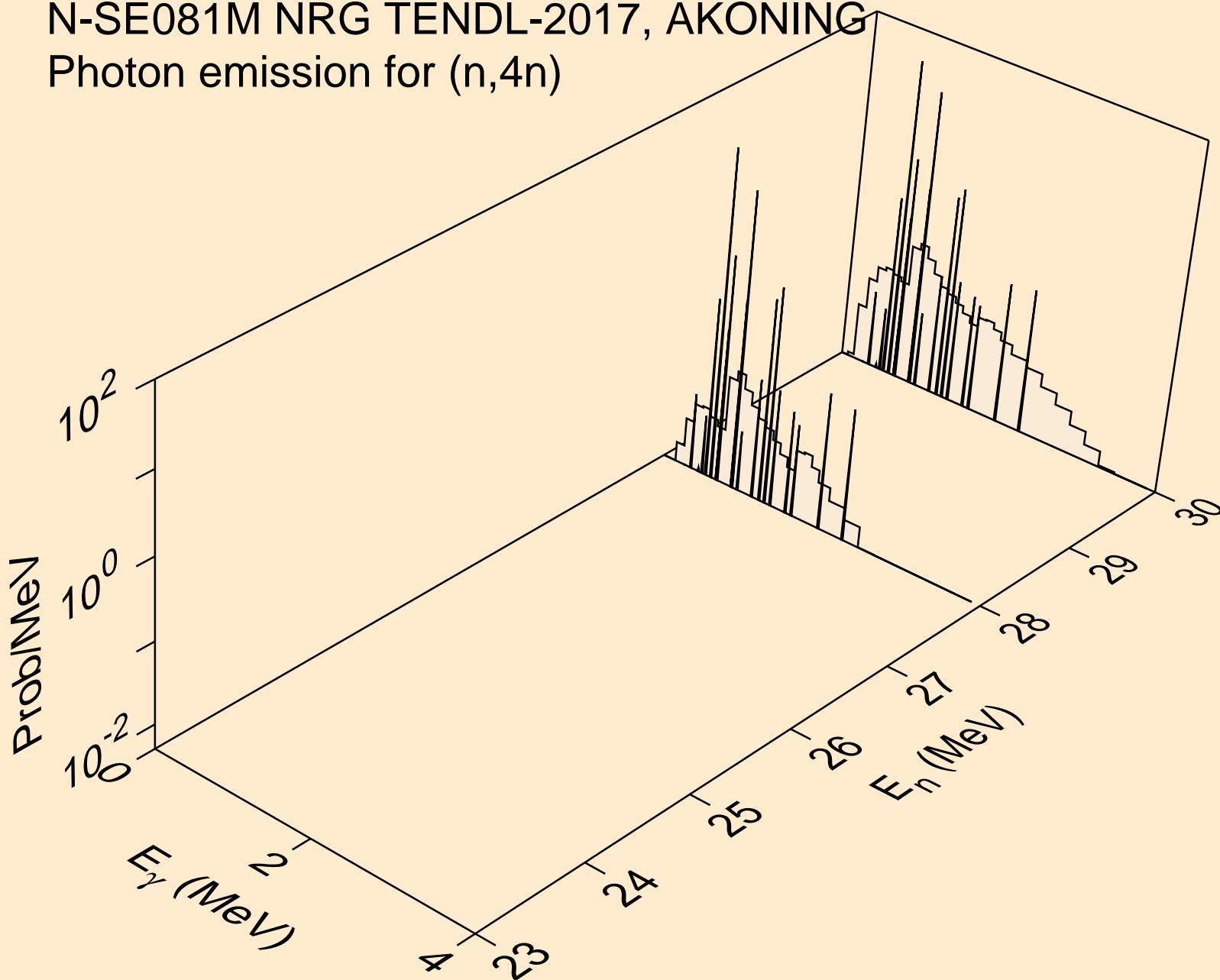


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Photon emission for  $(n,n^*)\text{he3}$

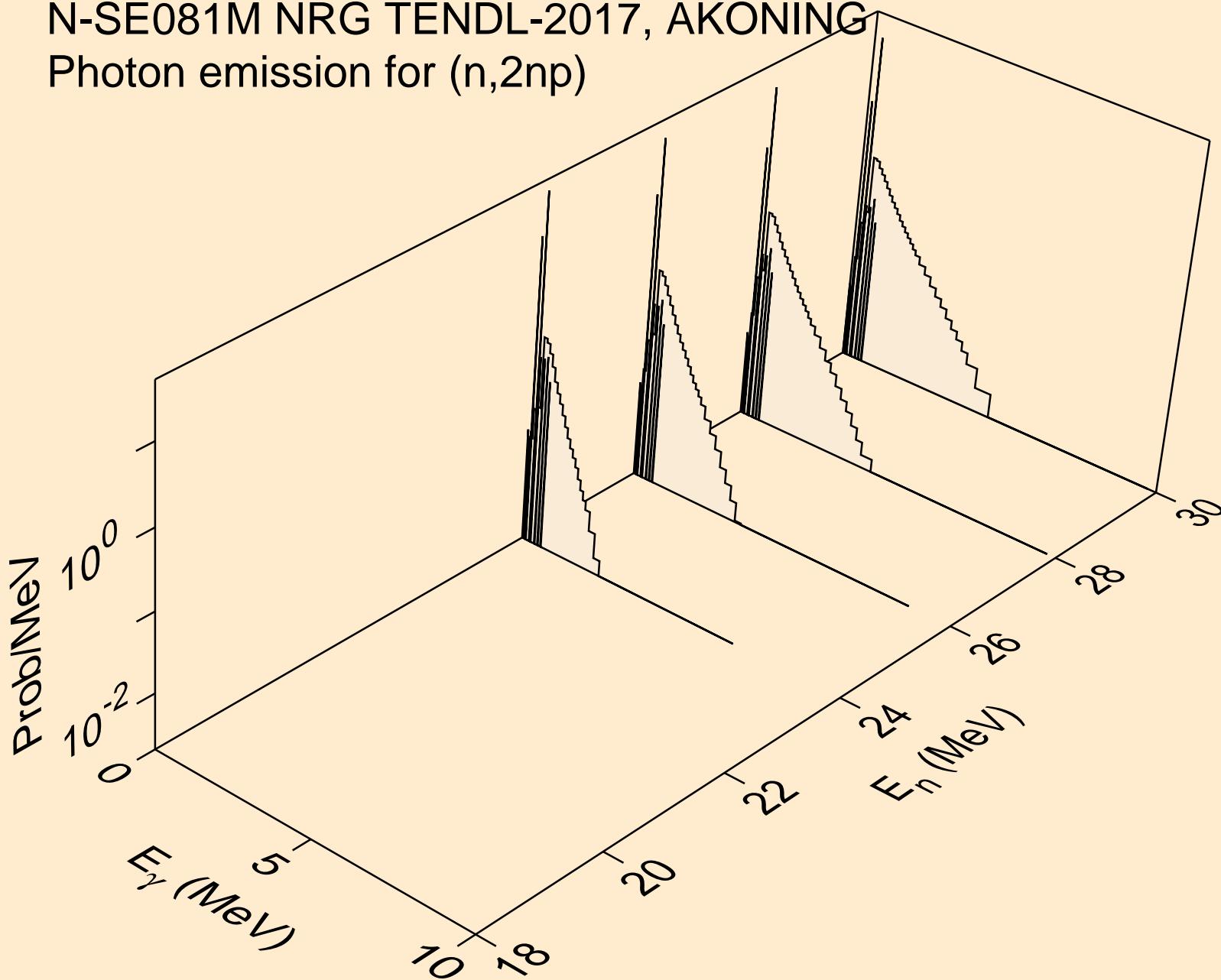


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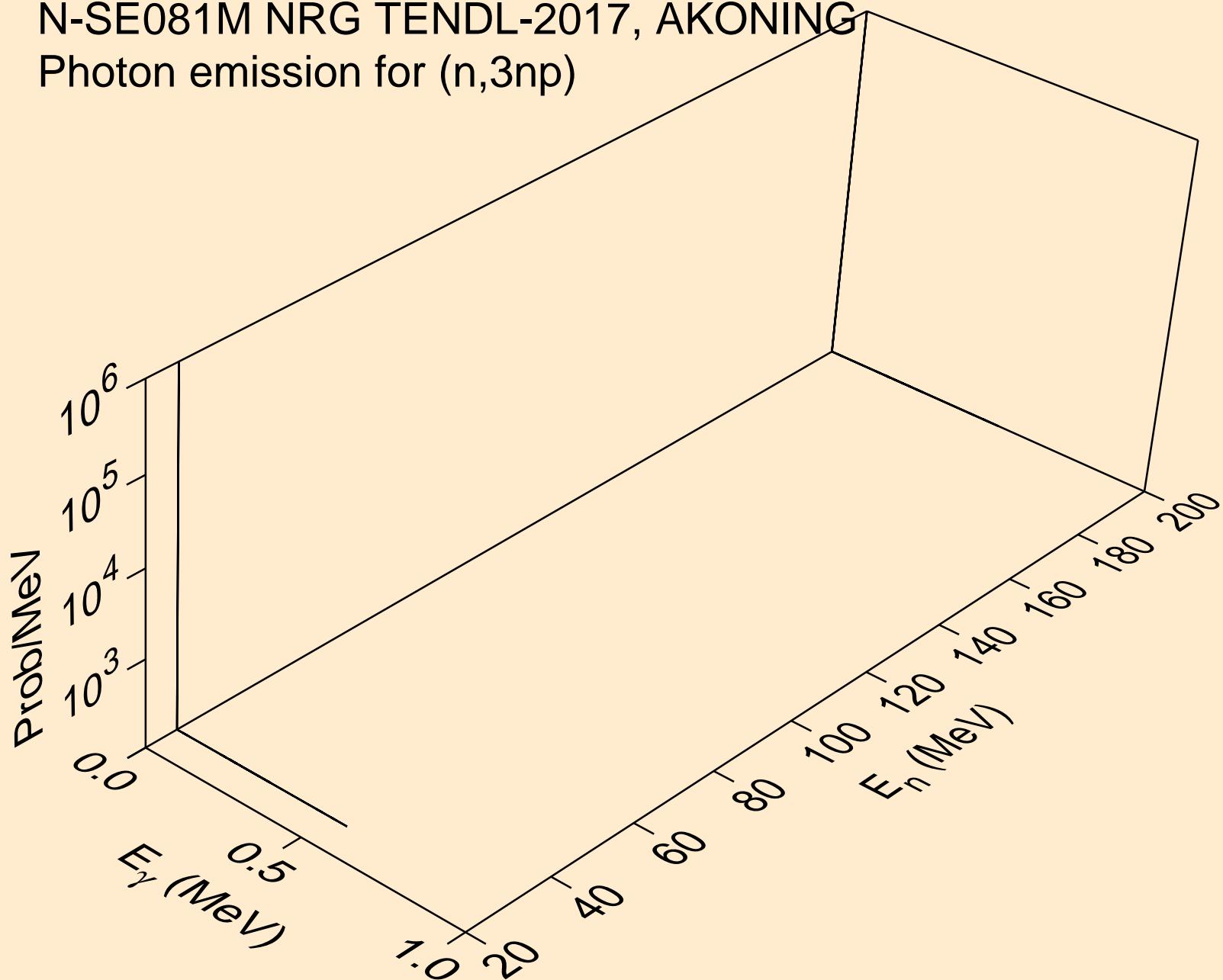
Photon emission for (n,4n)



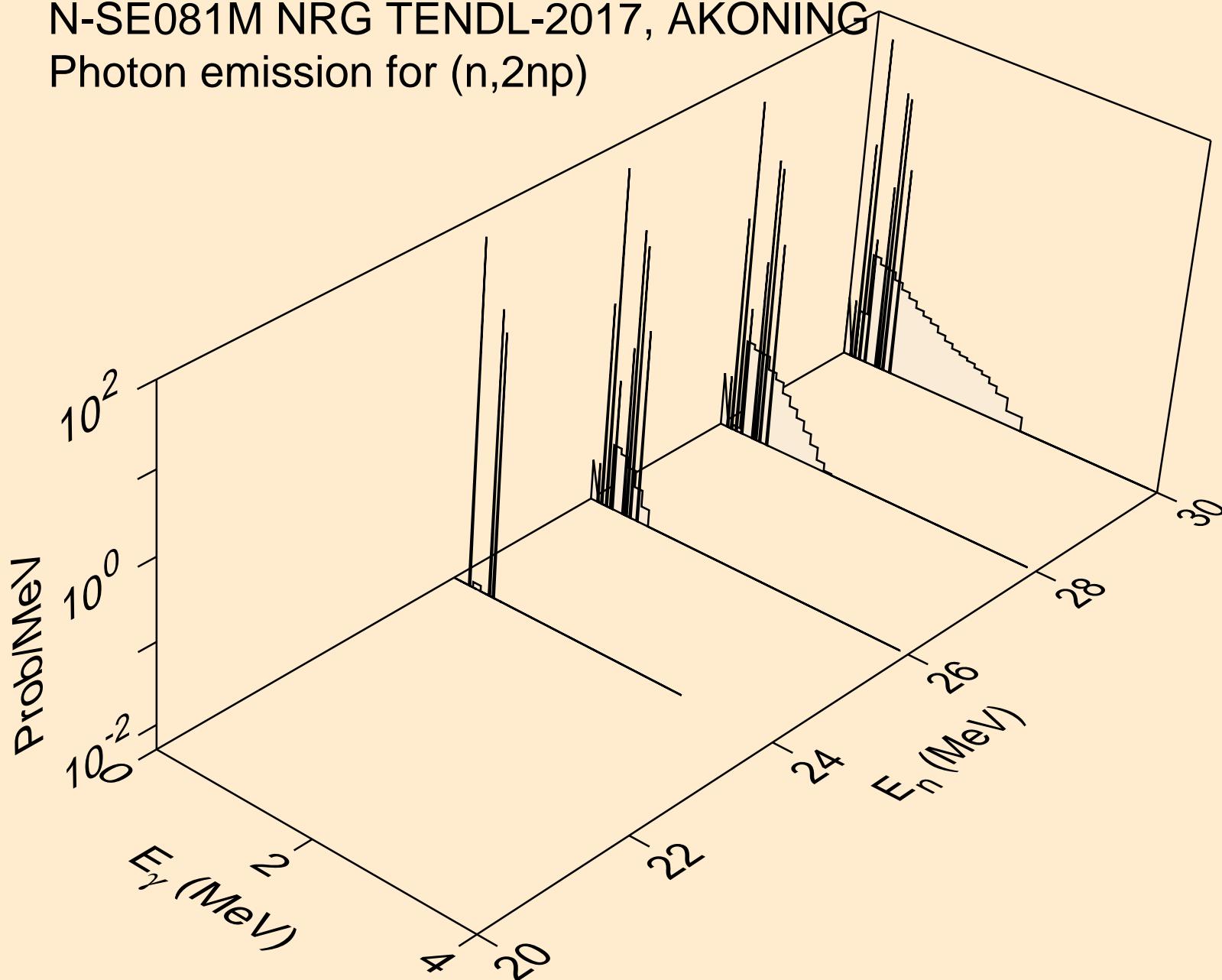
N-SE081M NRG TENDL-2017, AKONING  
Photon emission for (n,2np)



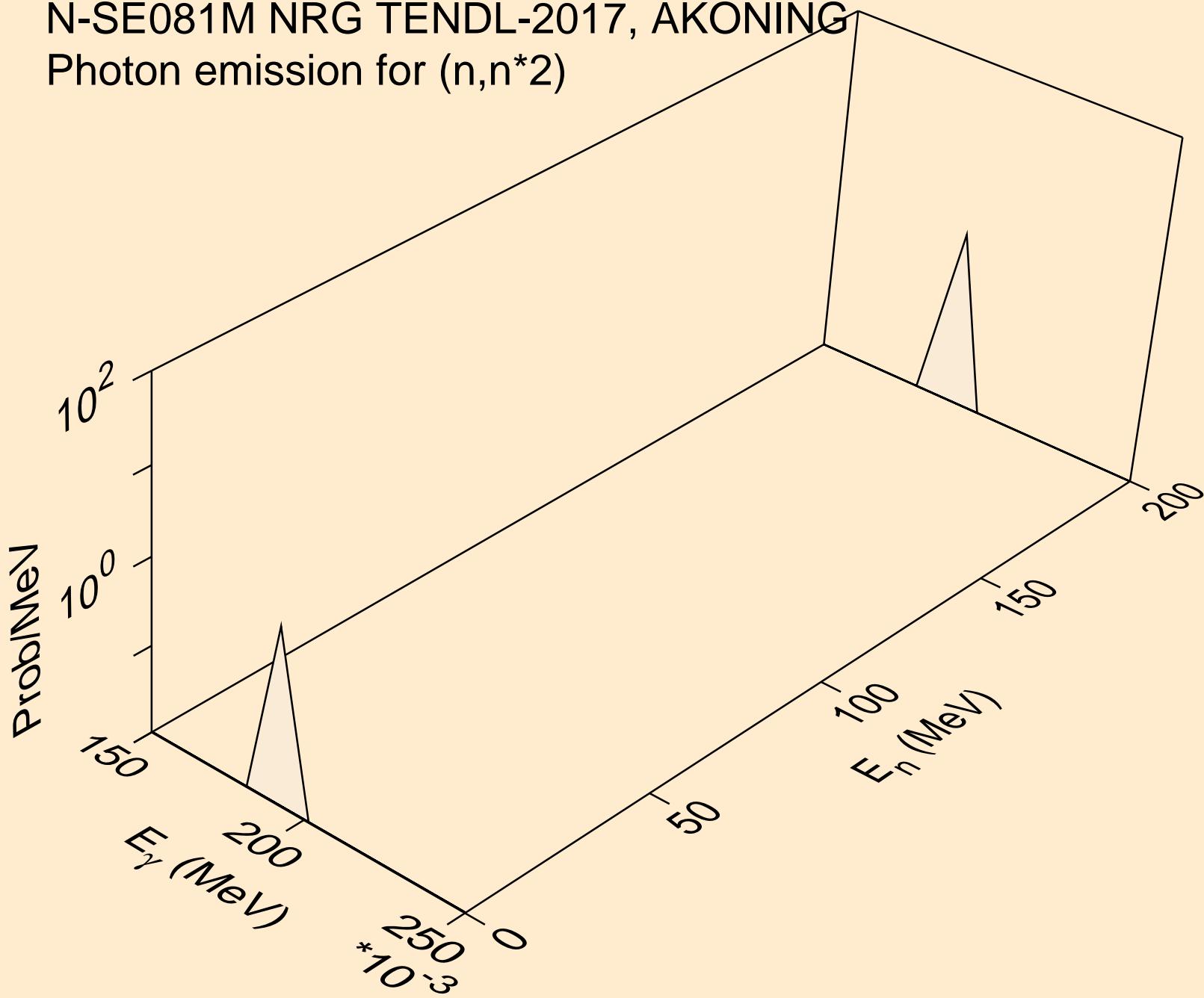
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Photon emission for (n,3np)



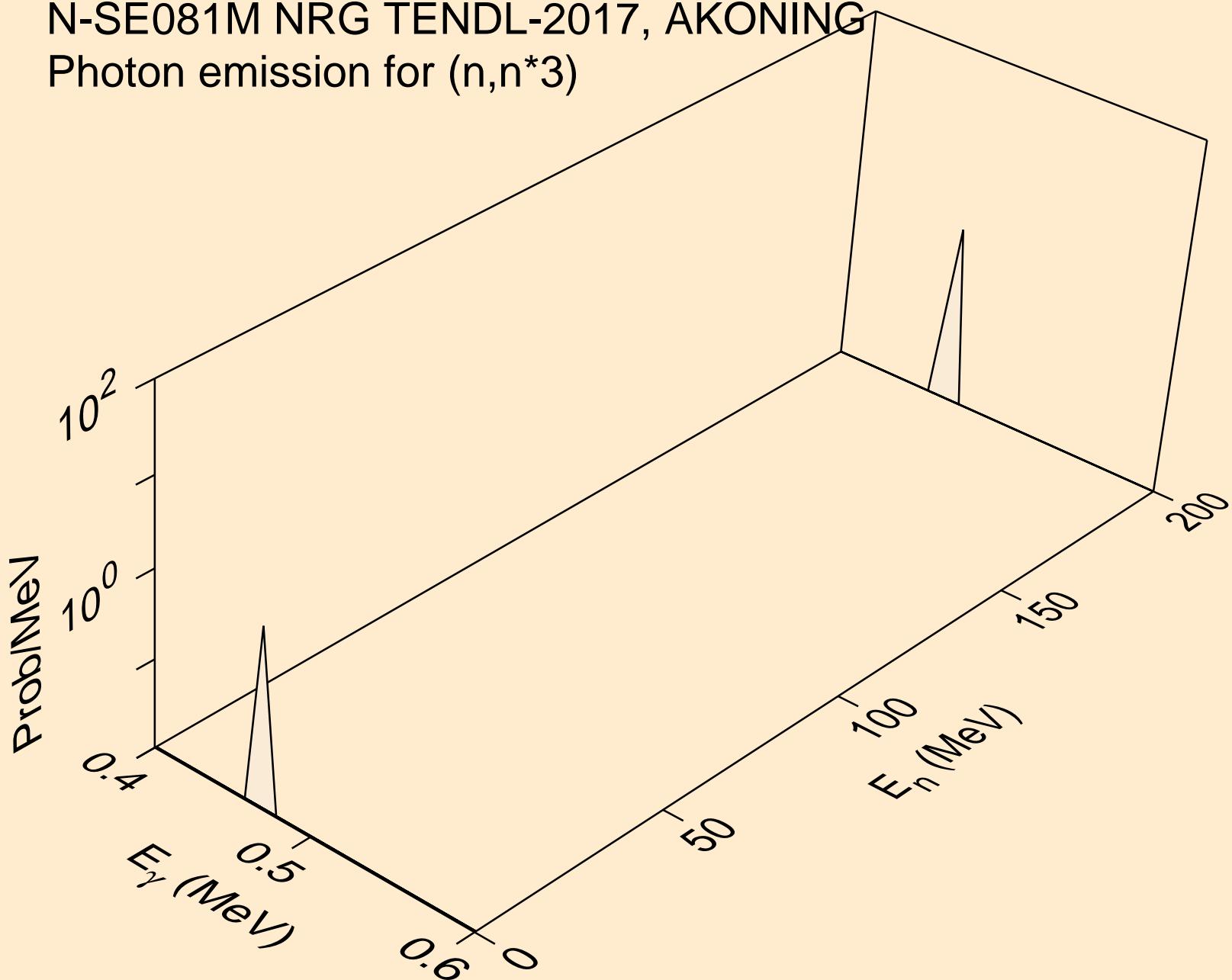
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Photon emission for (n,2np)



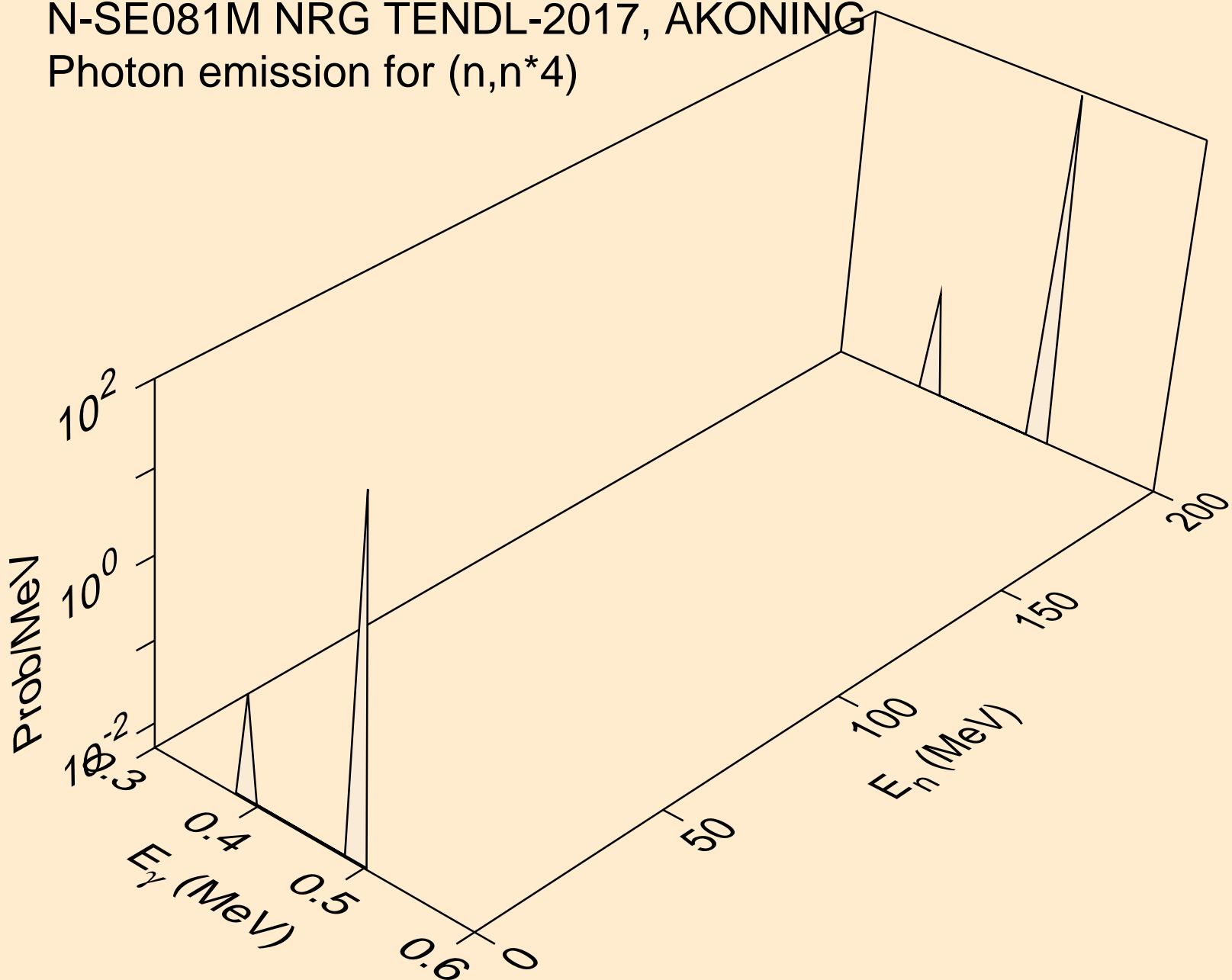
N-SE081M NRG TENDL-2017, AKONING  
Photon emission for (n,n\*2)



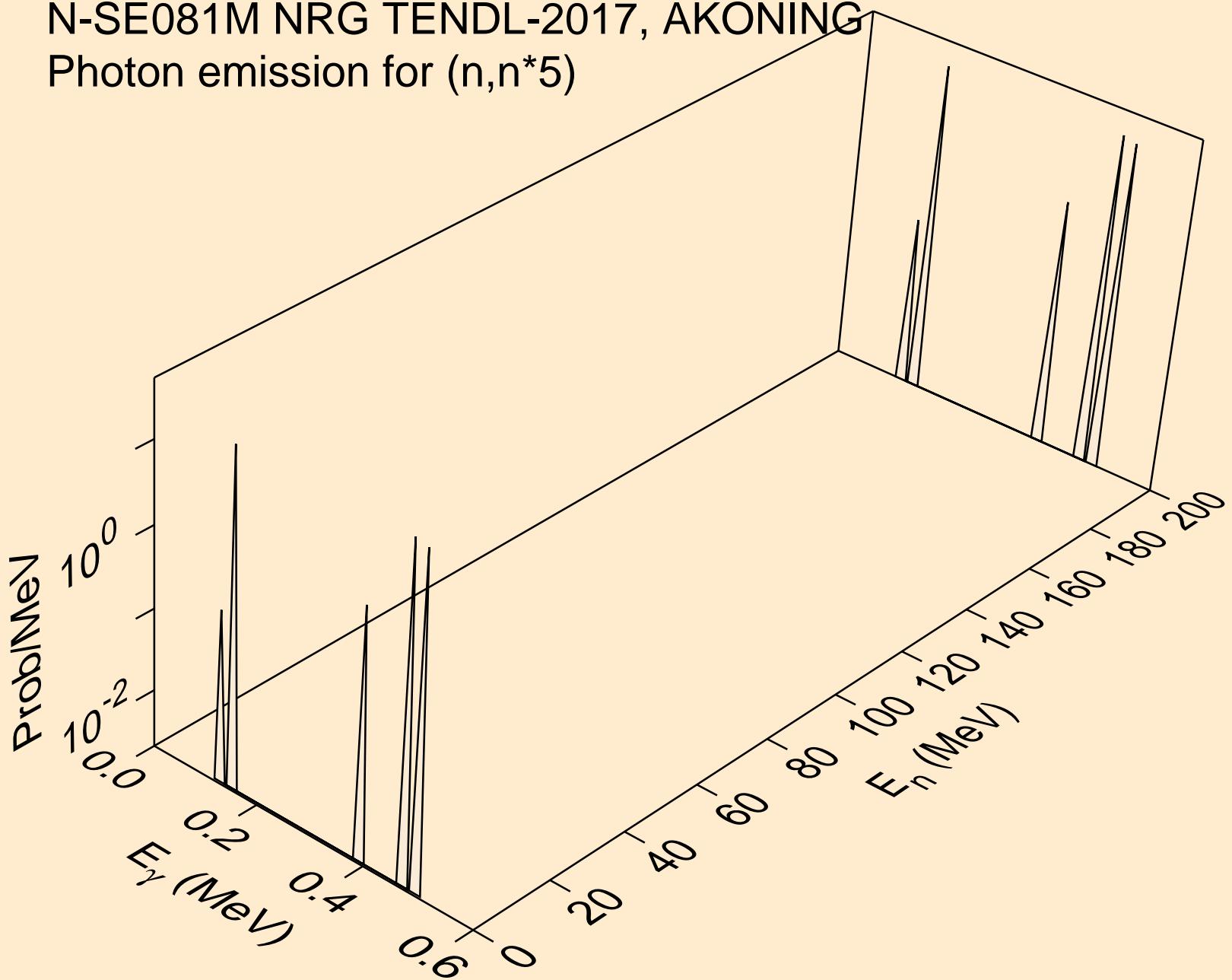
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Photon emission for (n,n\*3)



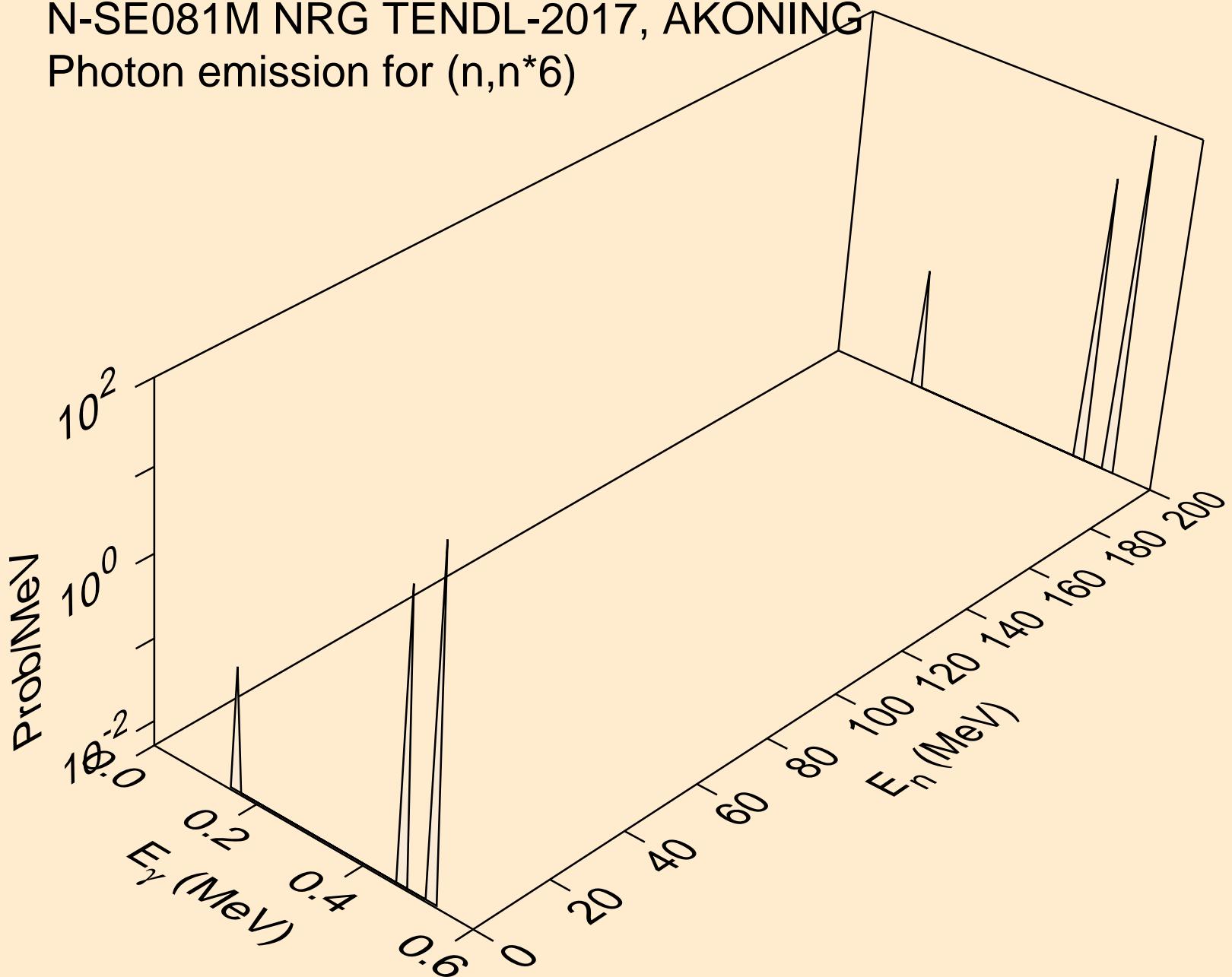
N-SE081M NRG TENDL-2017, AKONING  
Photon emission for (n,n\*4)



N-SE081M NRG TENDL-2017, AKONING  
Photon emission for (n,n\*5)

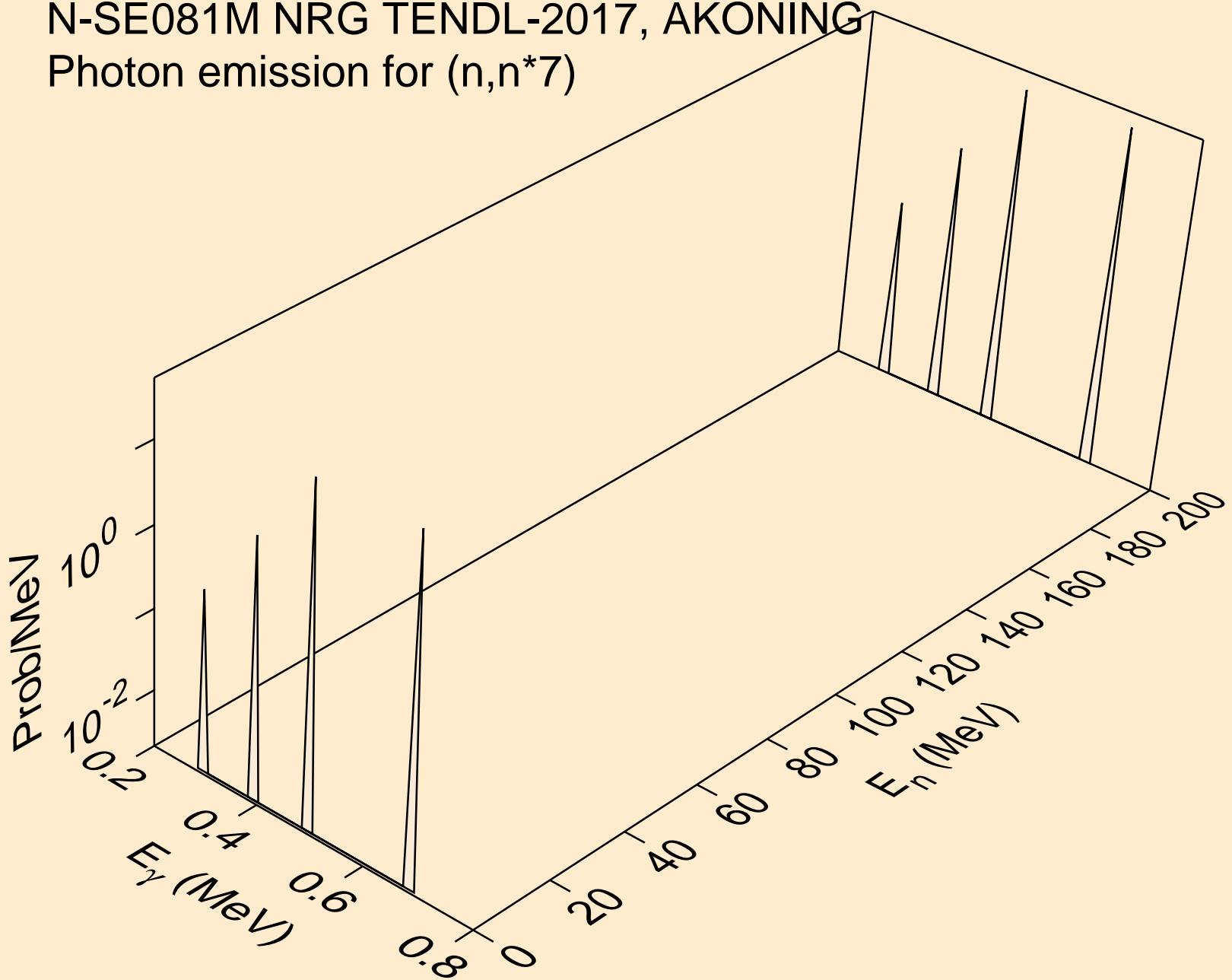


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Photon emission for (n,n\*6)

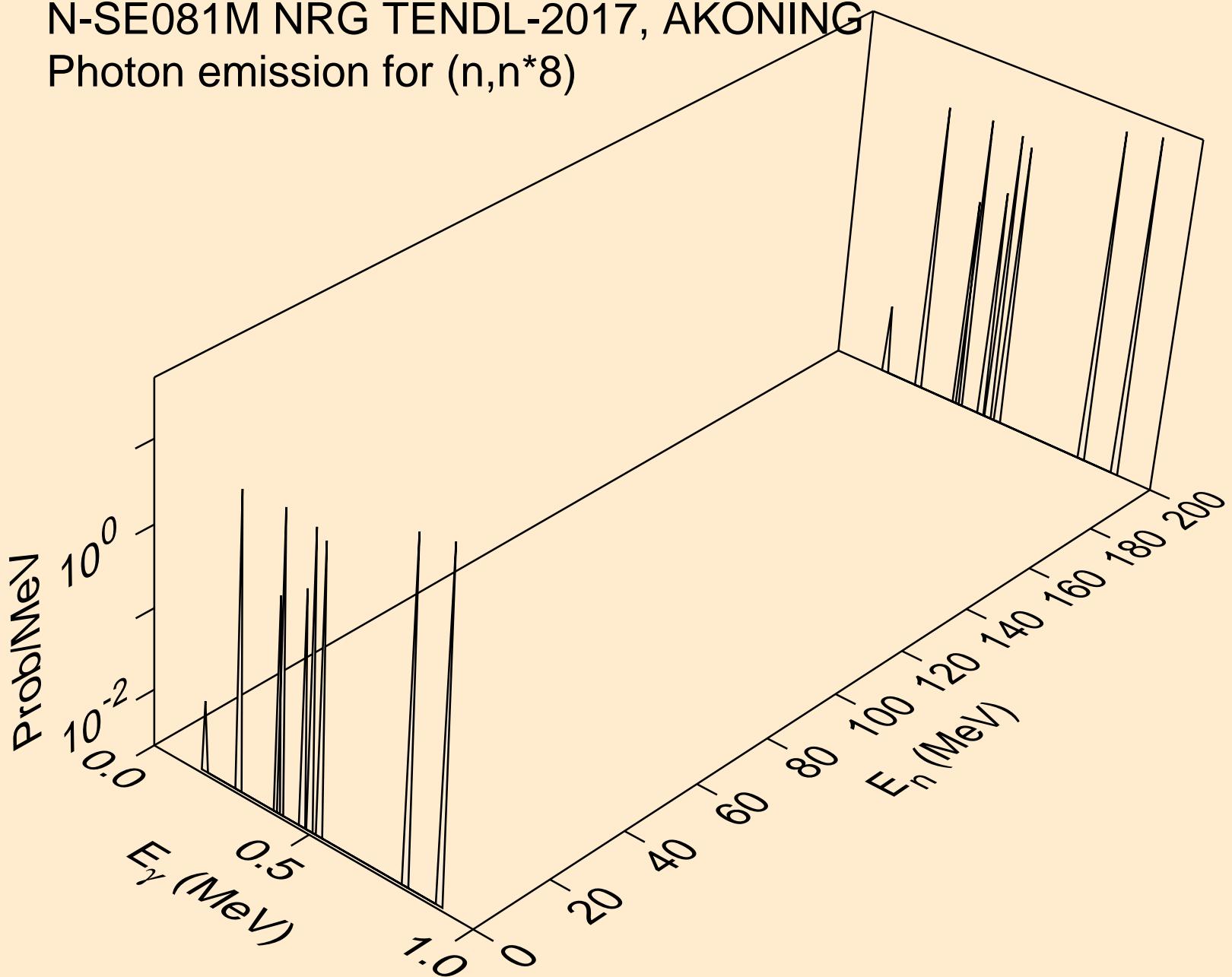


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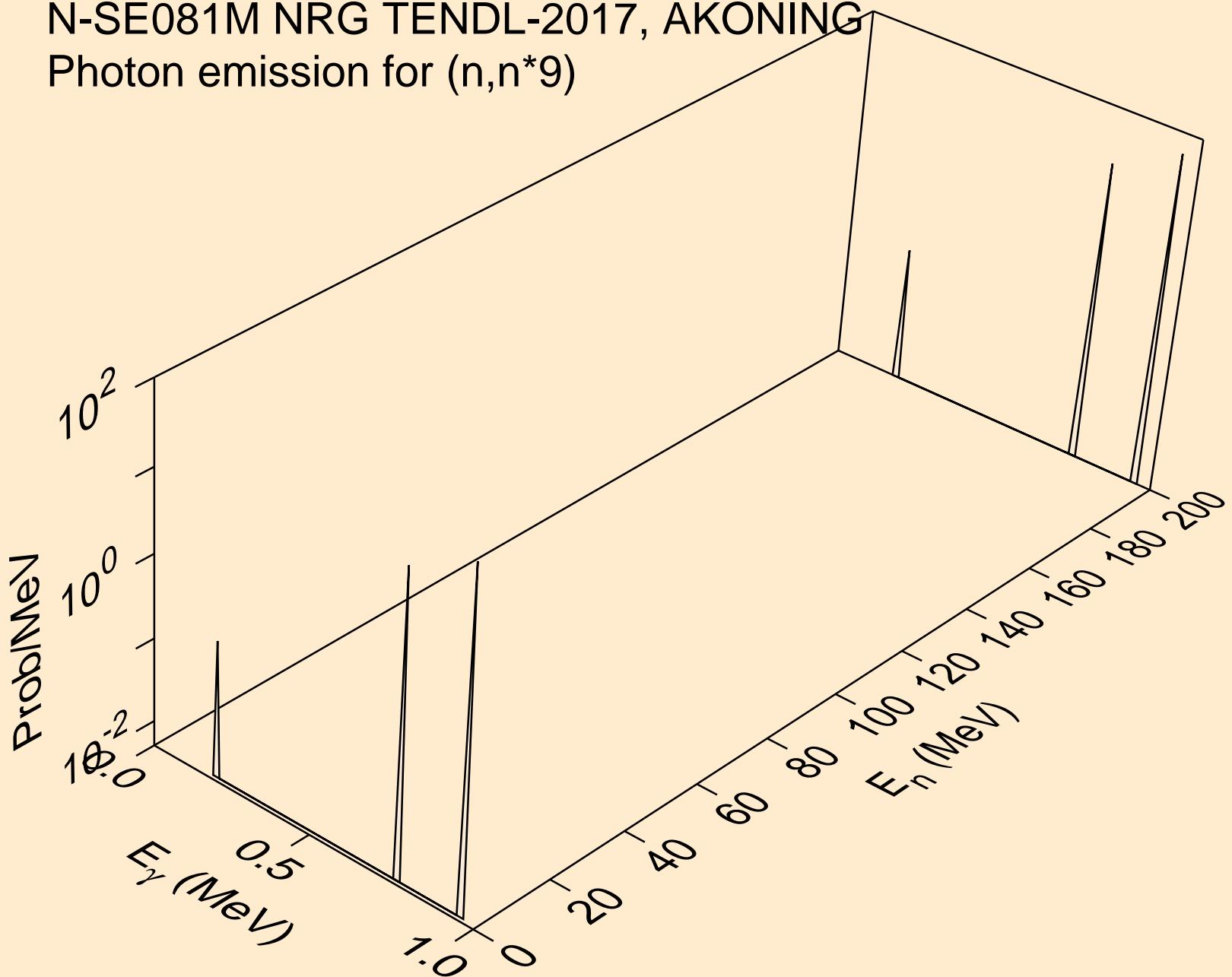
Photon emission for (n,n\*7)



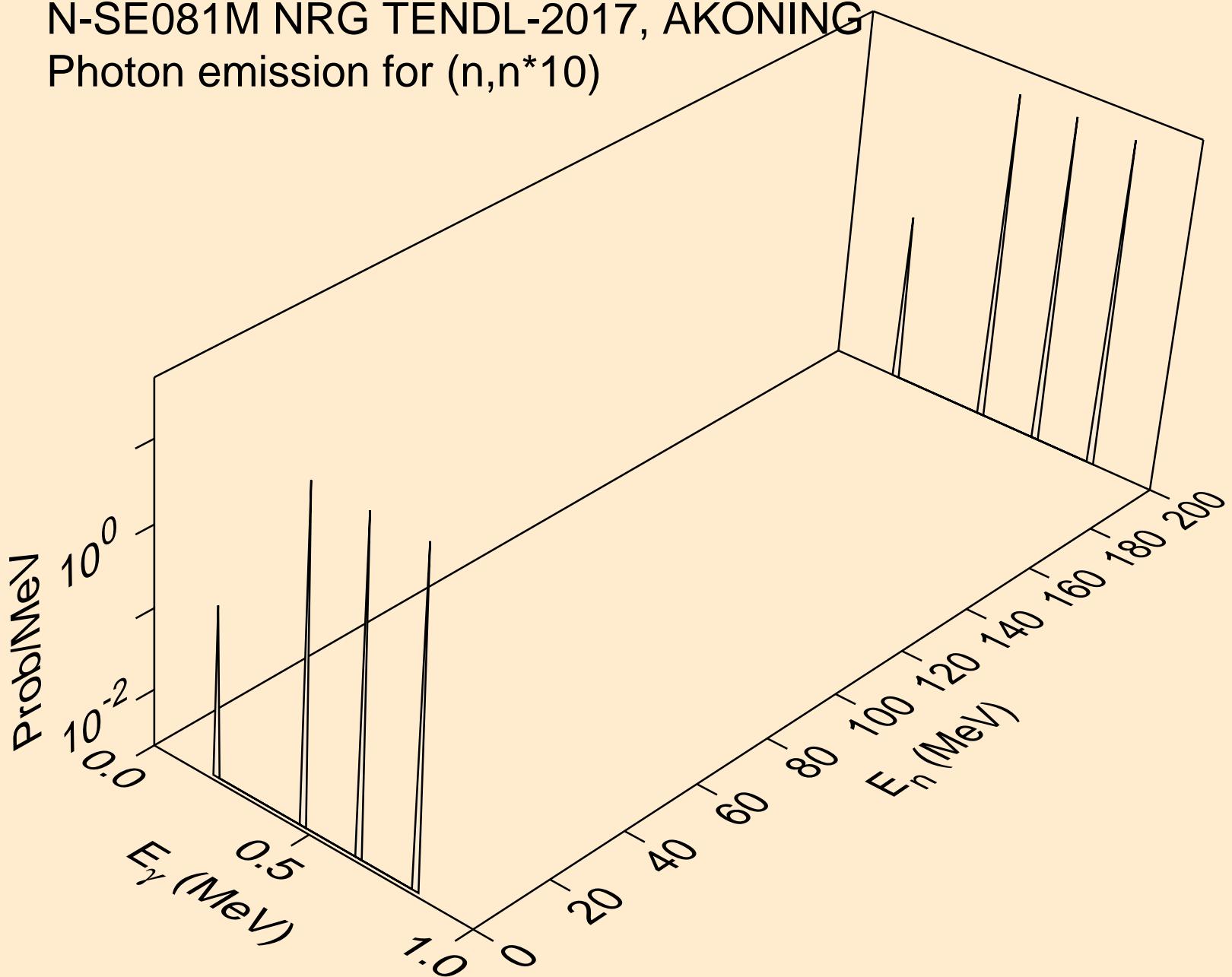
N-SE081M NRG TENDL-2017, AKONING  
Photon emission for (n,n\*8)



N-SE081M NRG TENDL-2017, AKONING  
Photon emission for (n,n\*9)

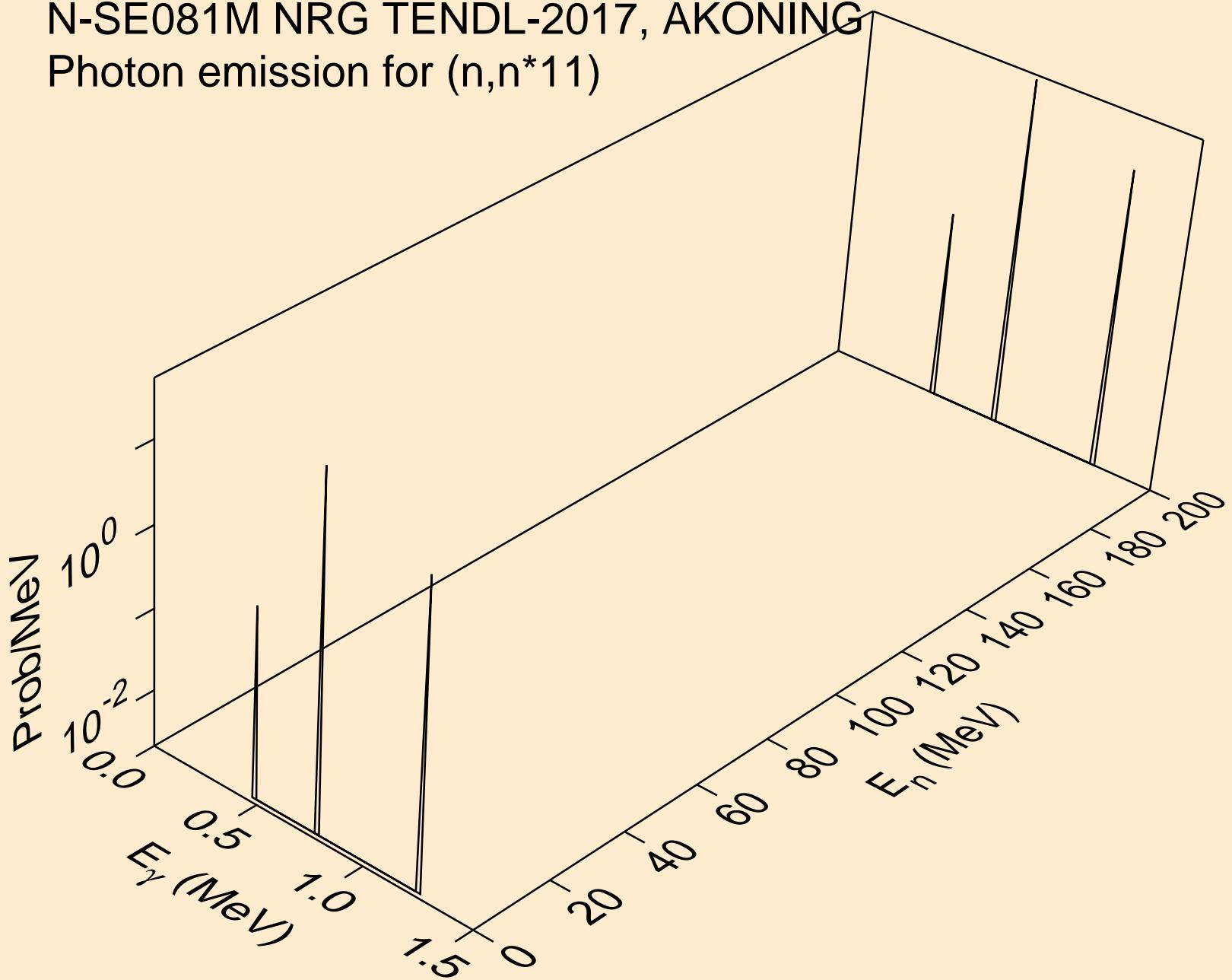


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Photon emission for (n,n\*10)

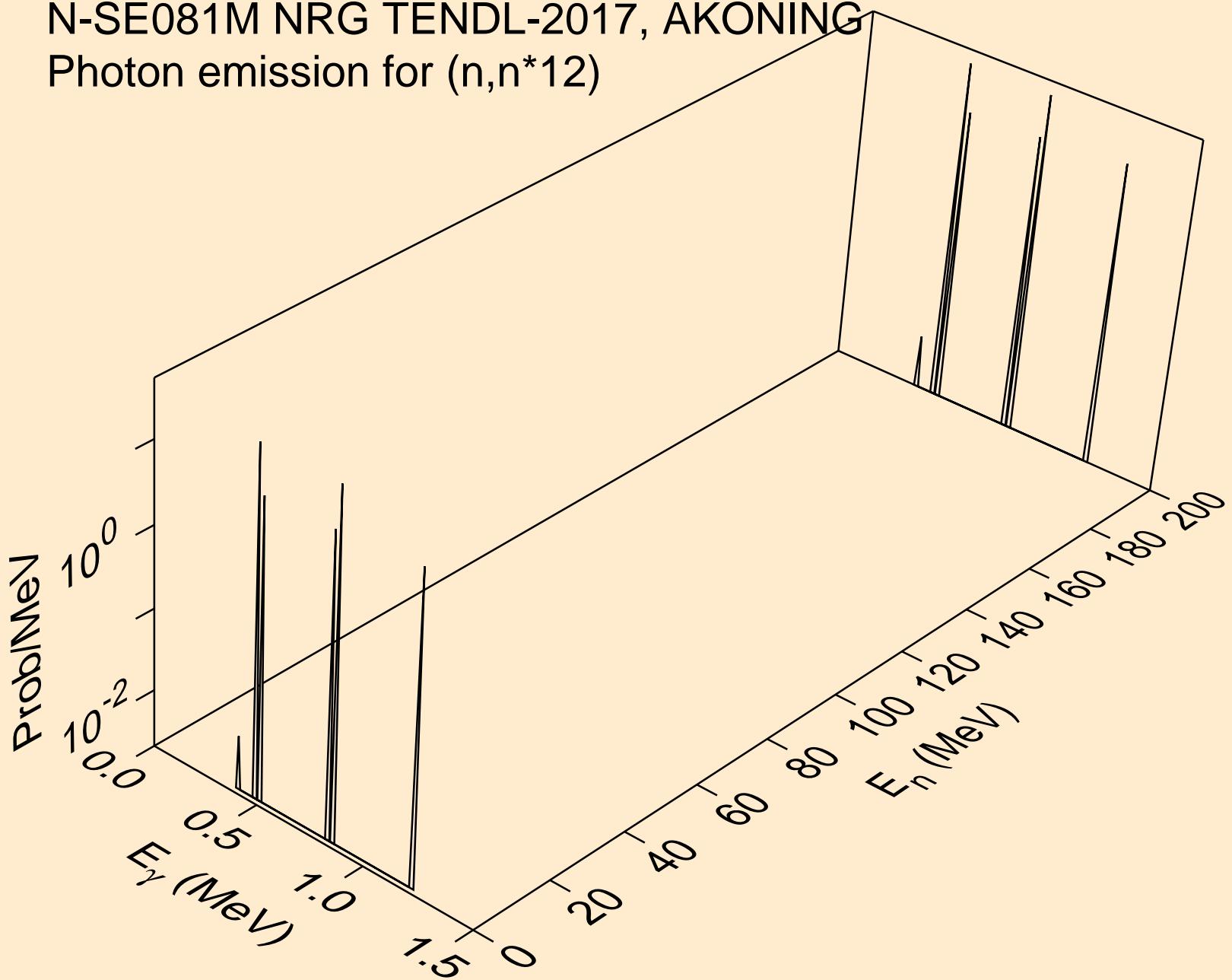


N-SE081M NRG TENDL-2017, AKONING

Photon emission for (n,n\*11)

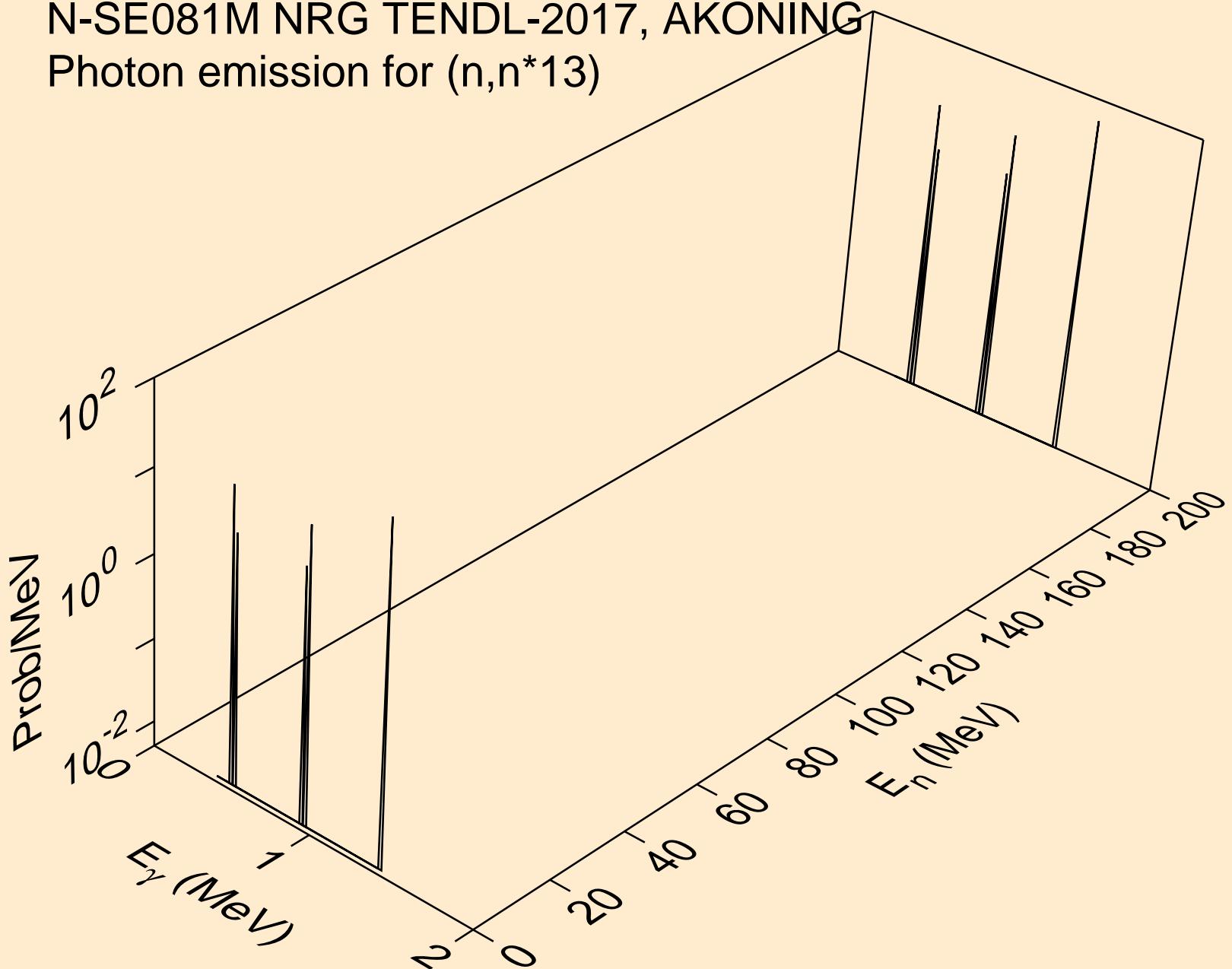


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Photon emission for (n,n\*12)

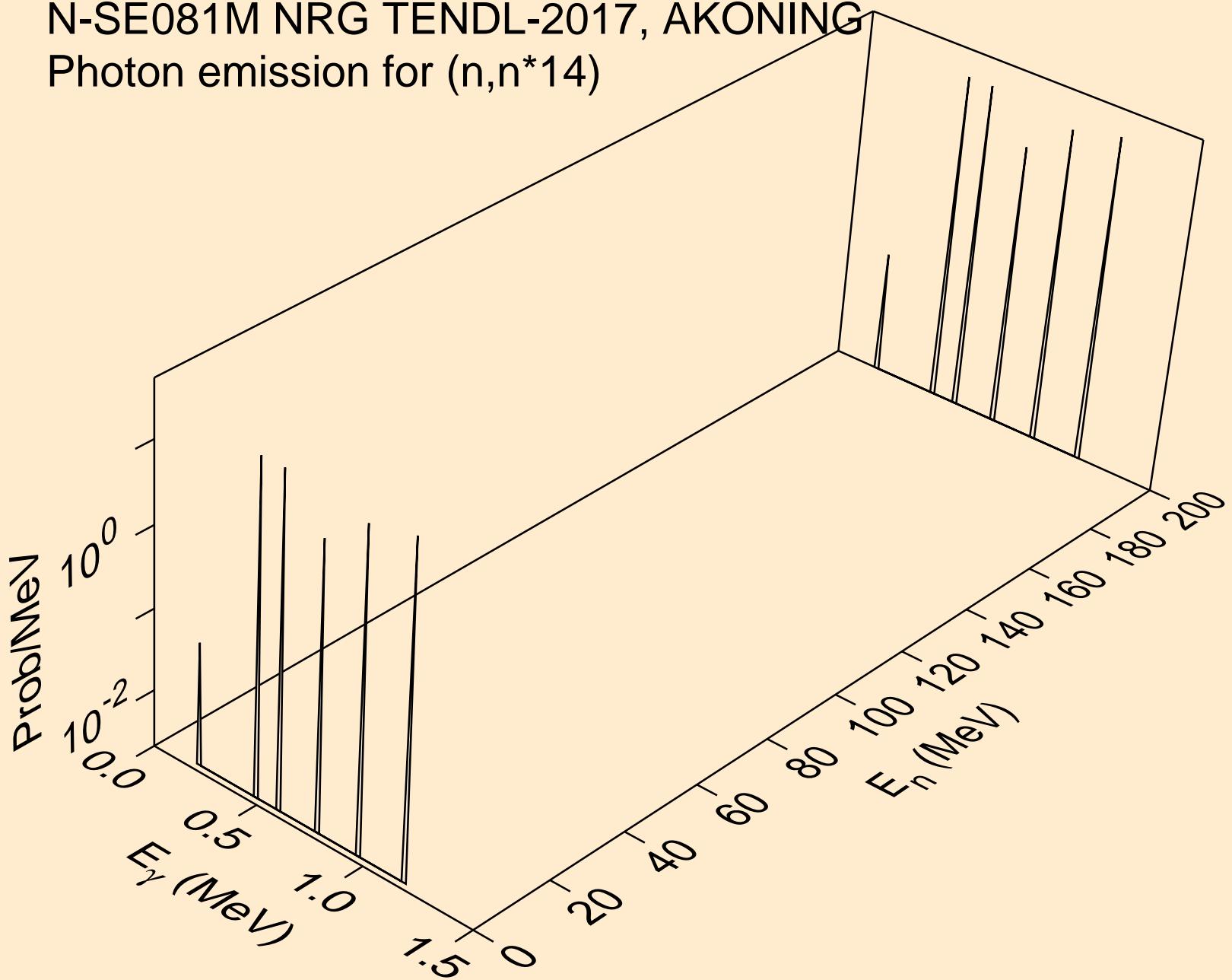


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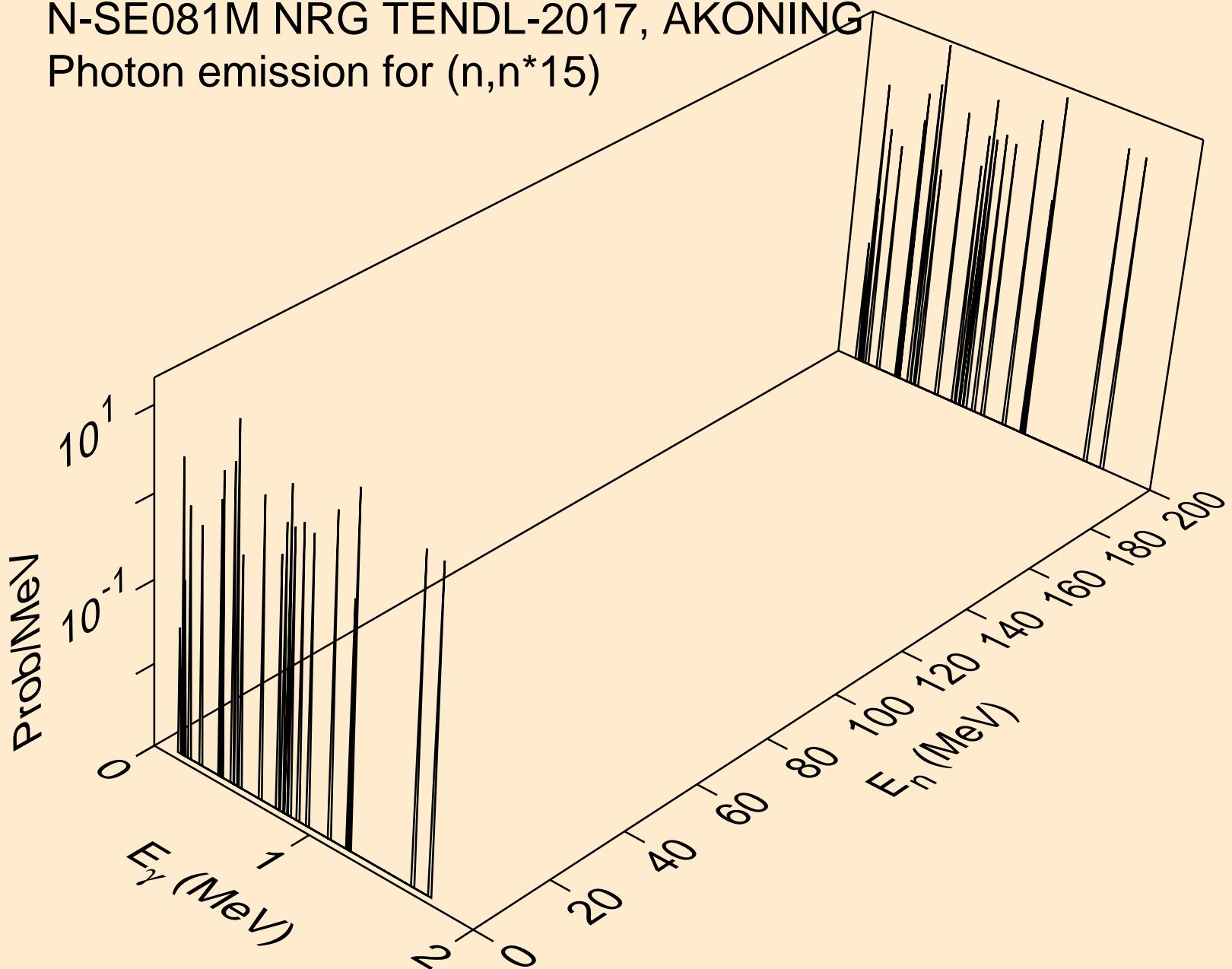
Photon emission for (n,n\*13)



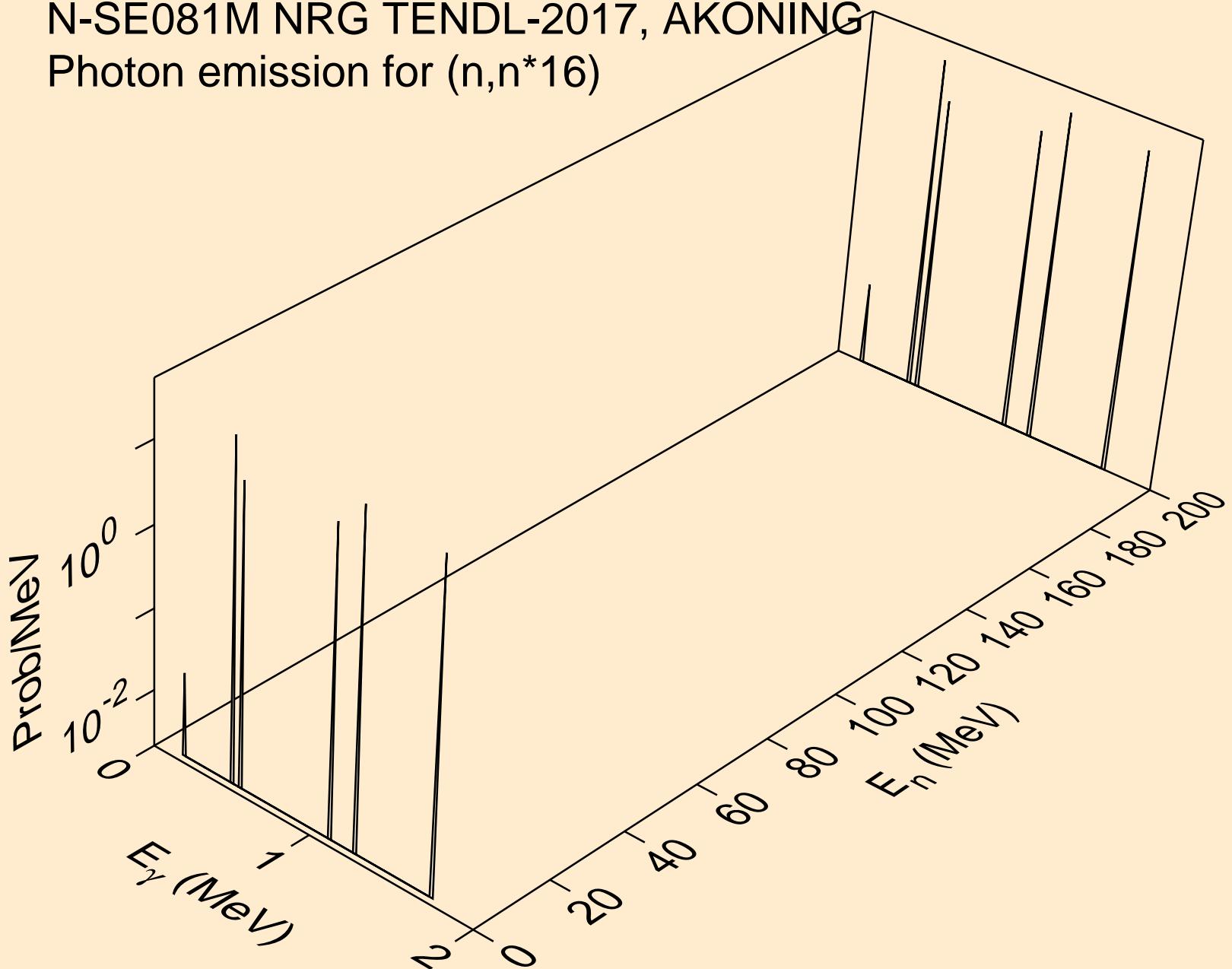
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Photon emission for (n,n\*14)



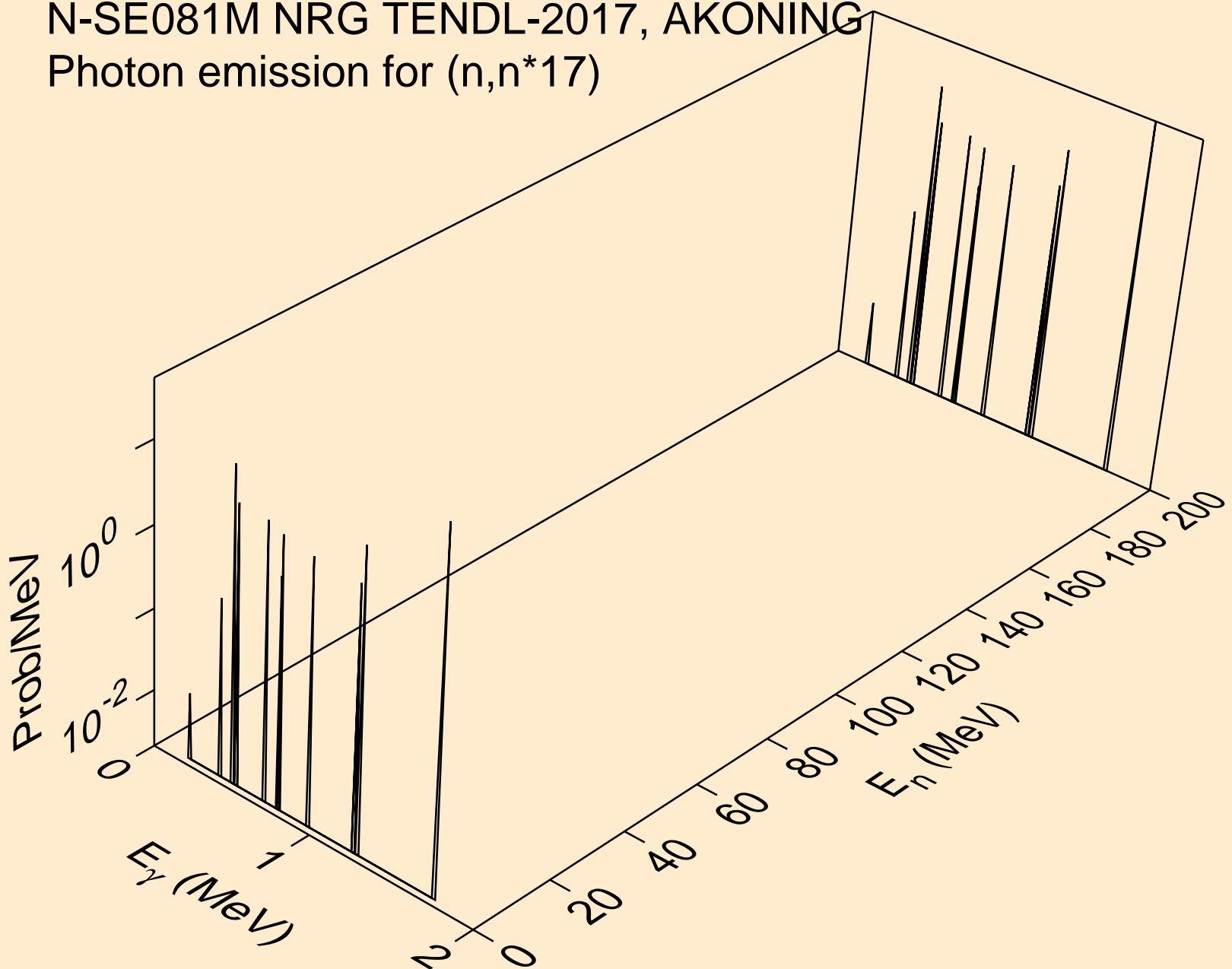
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Photon emission for (n,n\*15)



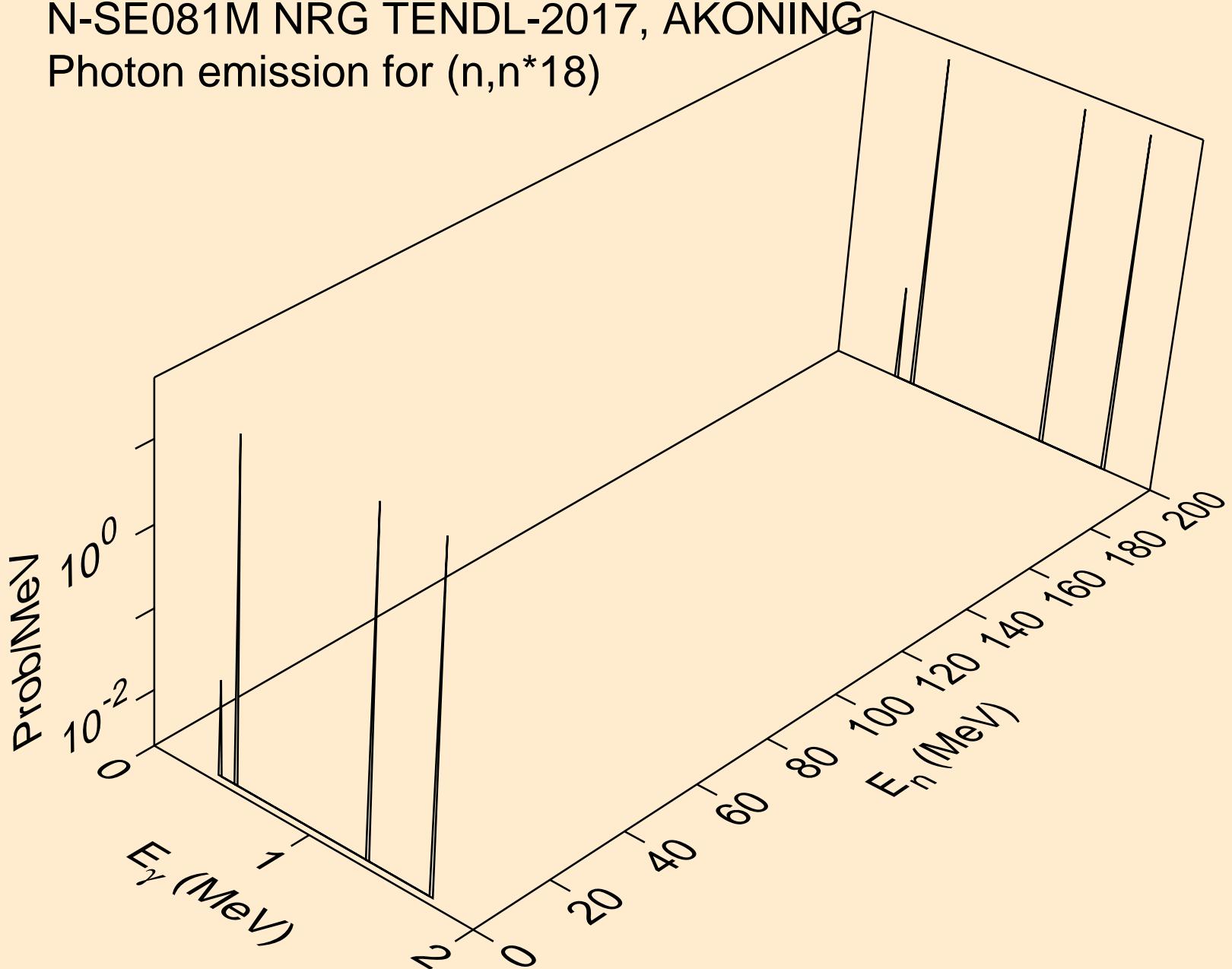
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Photon emission for (n,n\*16)



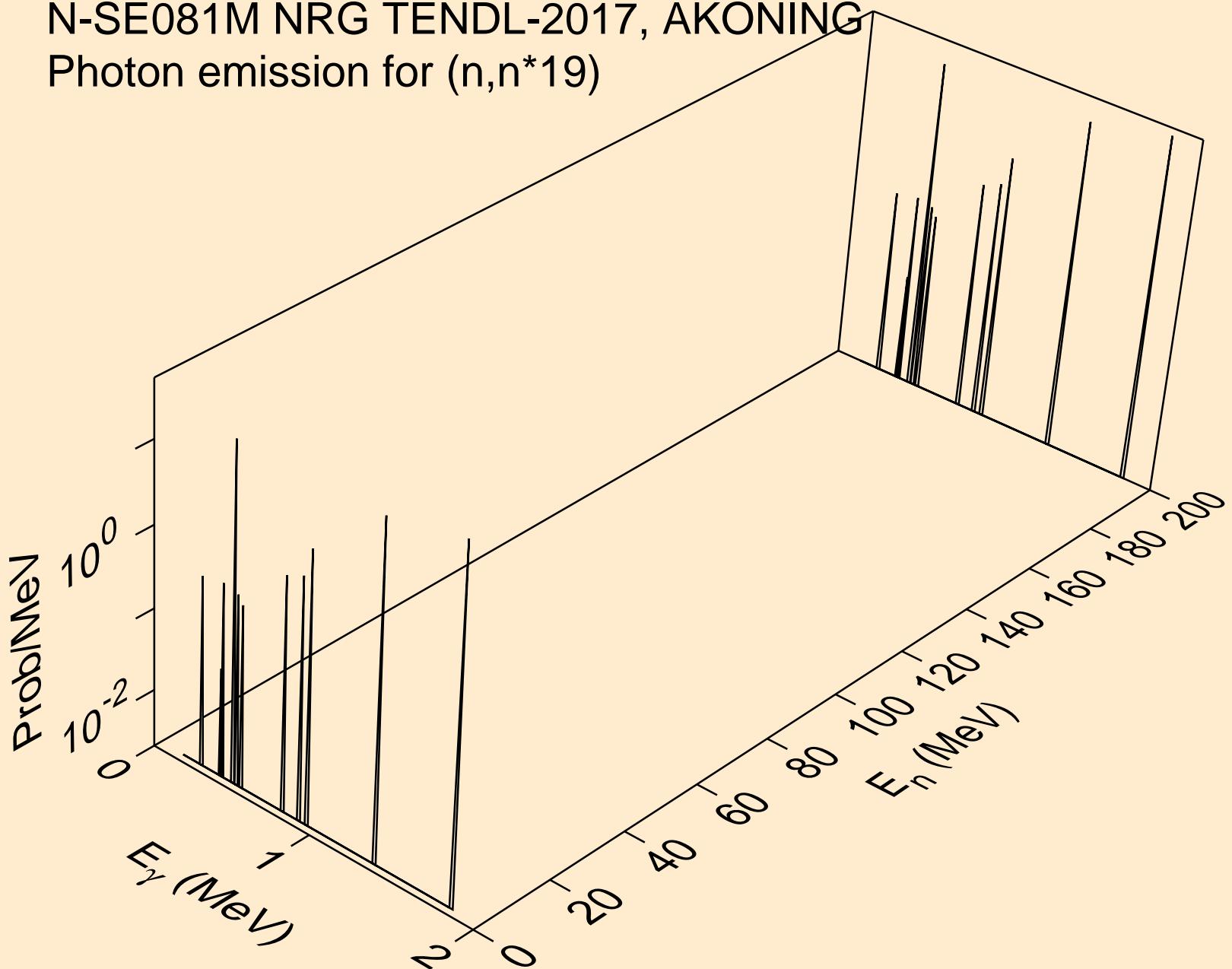
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Photon emission for (n,n\*17)



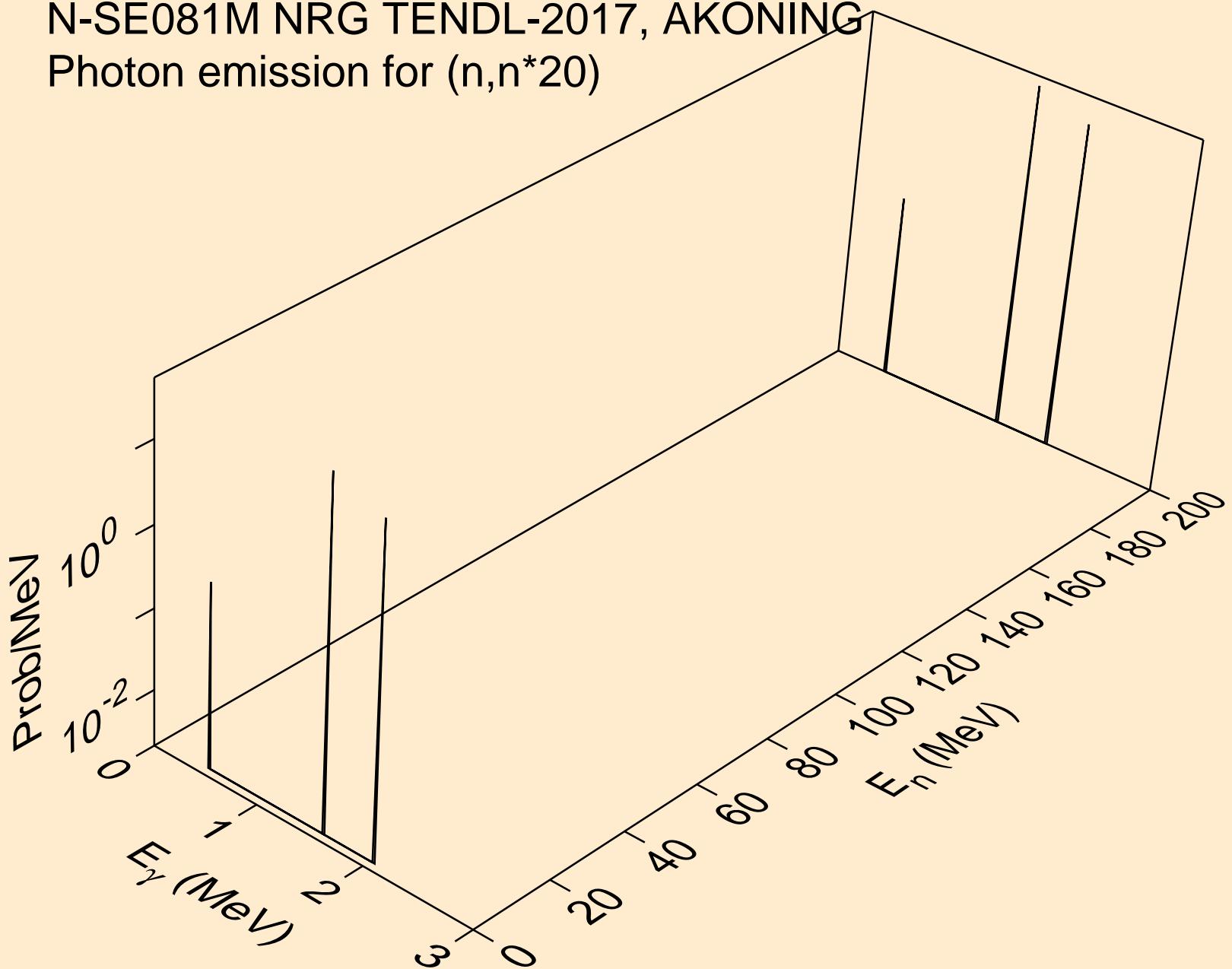
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Photon emission for (n,n\*18)



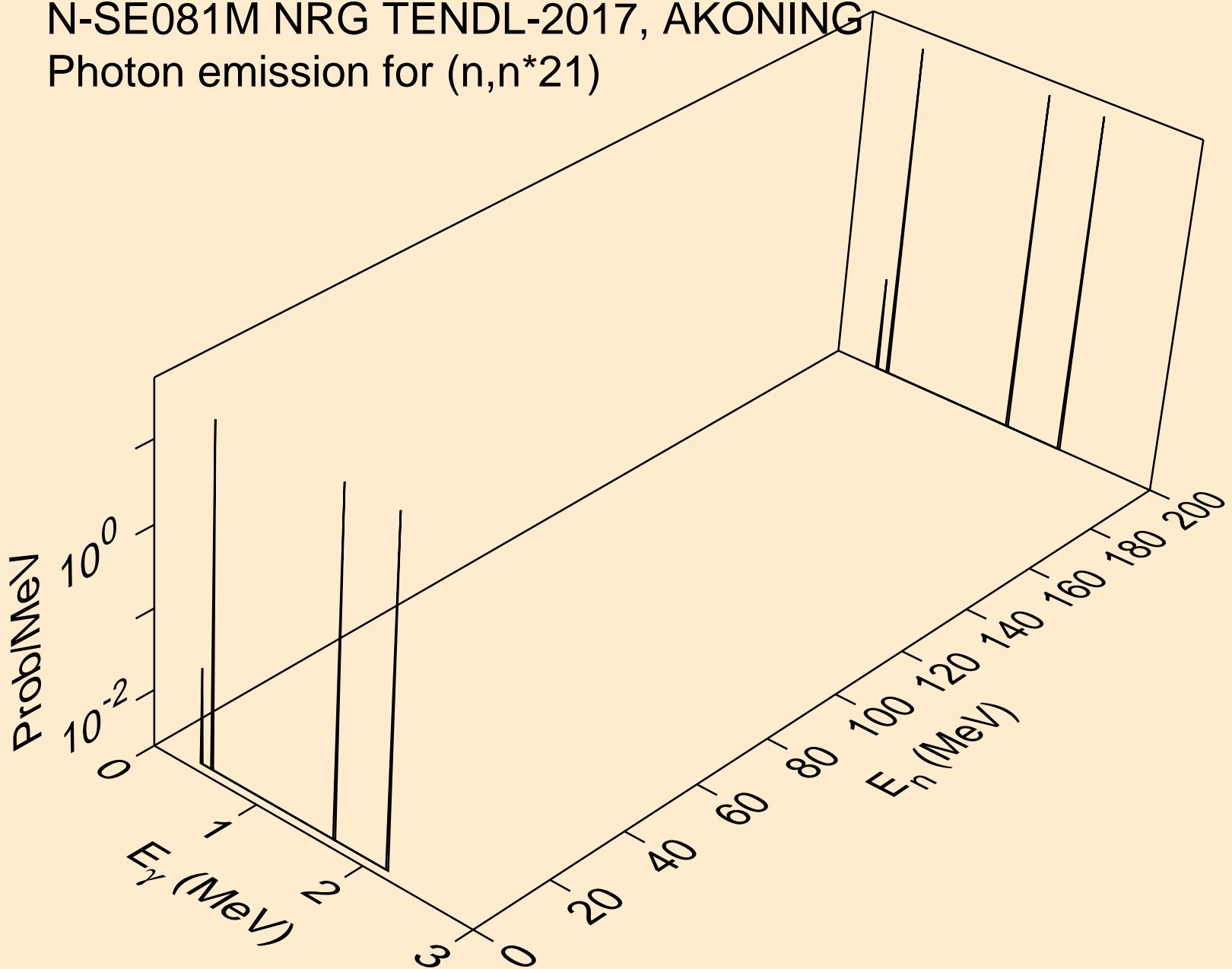
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Photon emission for (n,n\*19)



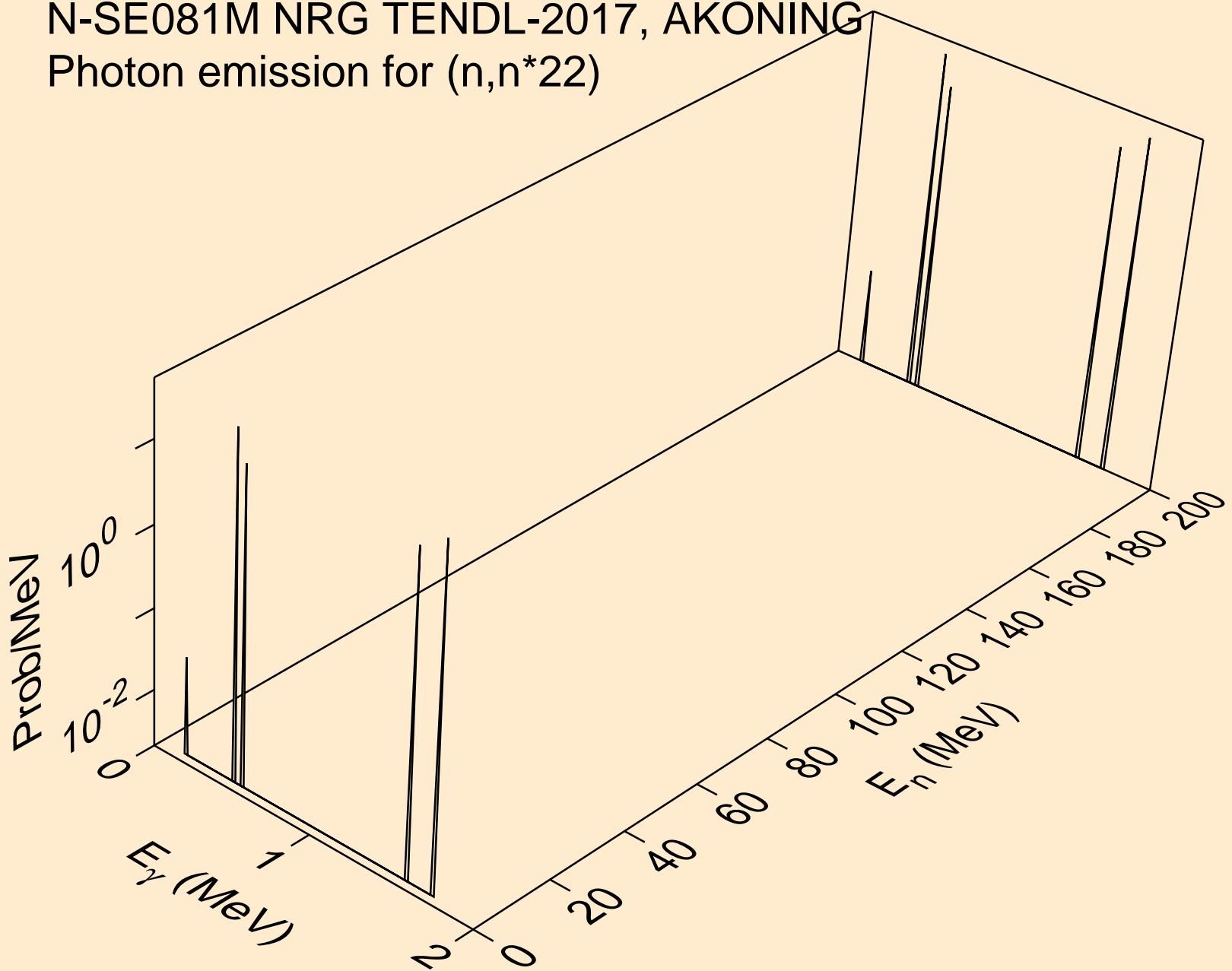
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Photon emission for (n,n\*20)



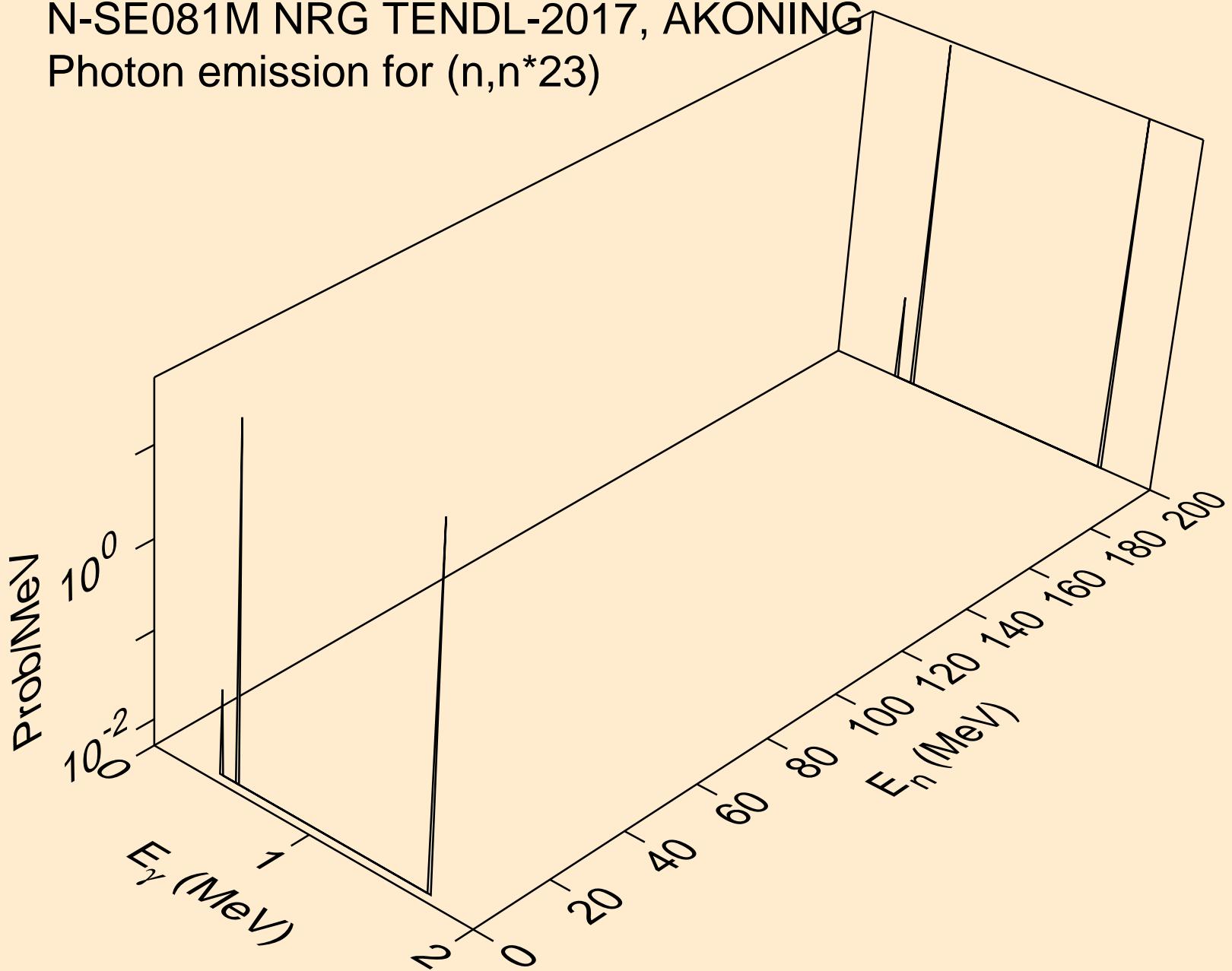
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Photon emission for (n,n\*21)



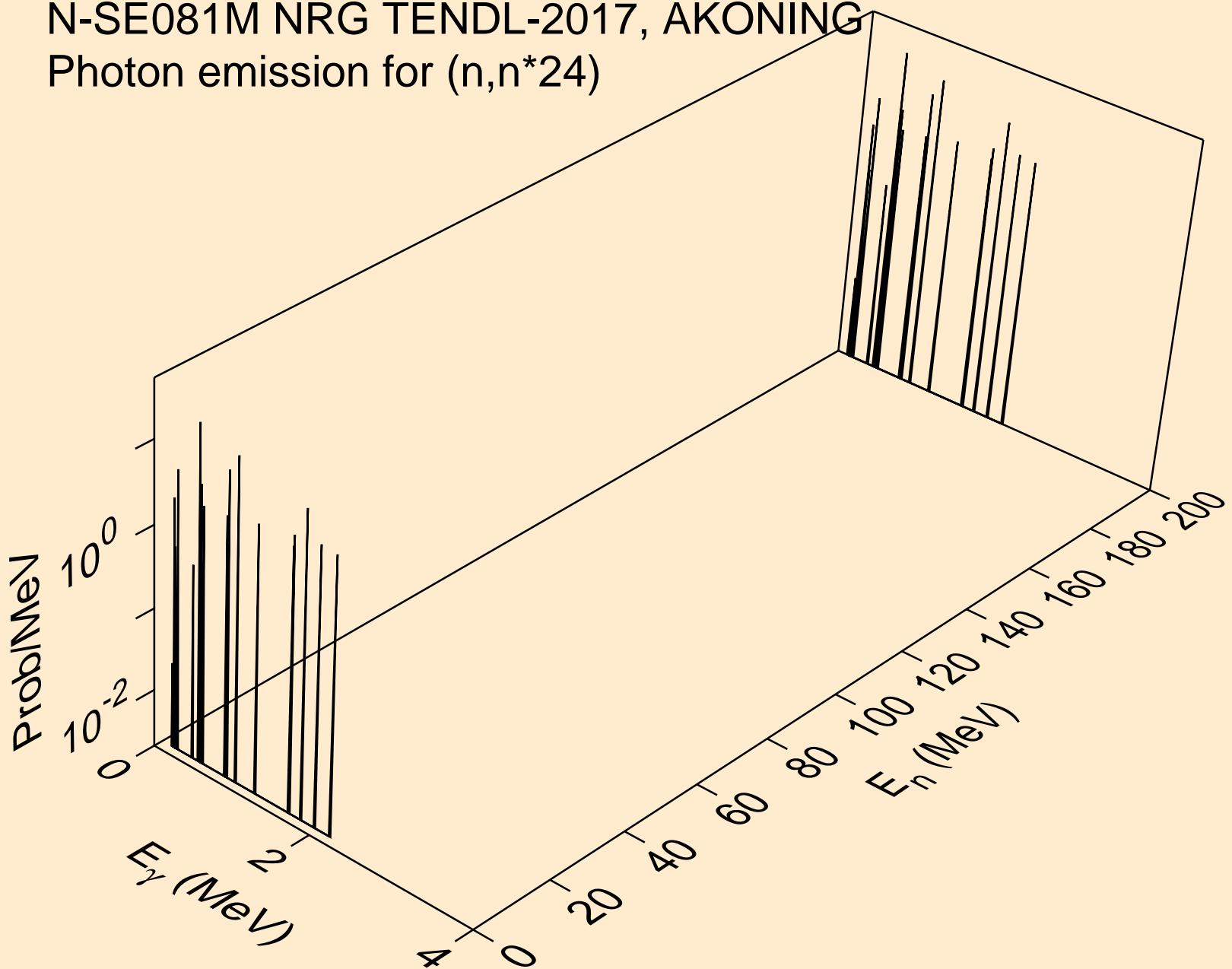
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Photon emission for (n,n\*22)



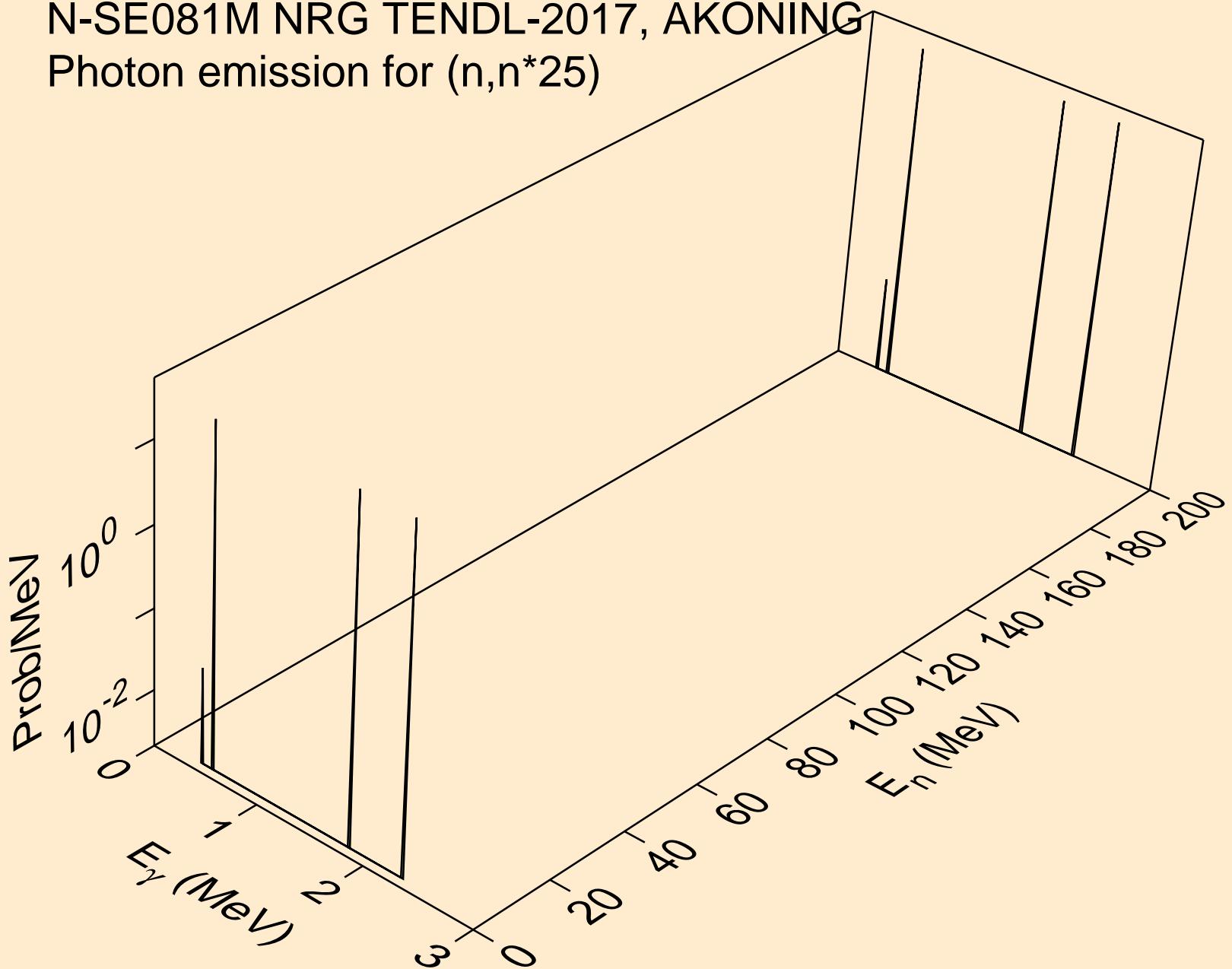
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Photon emission for ( $n, n^* 23$ )



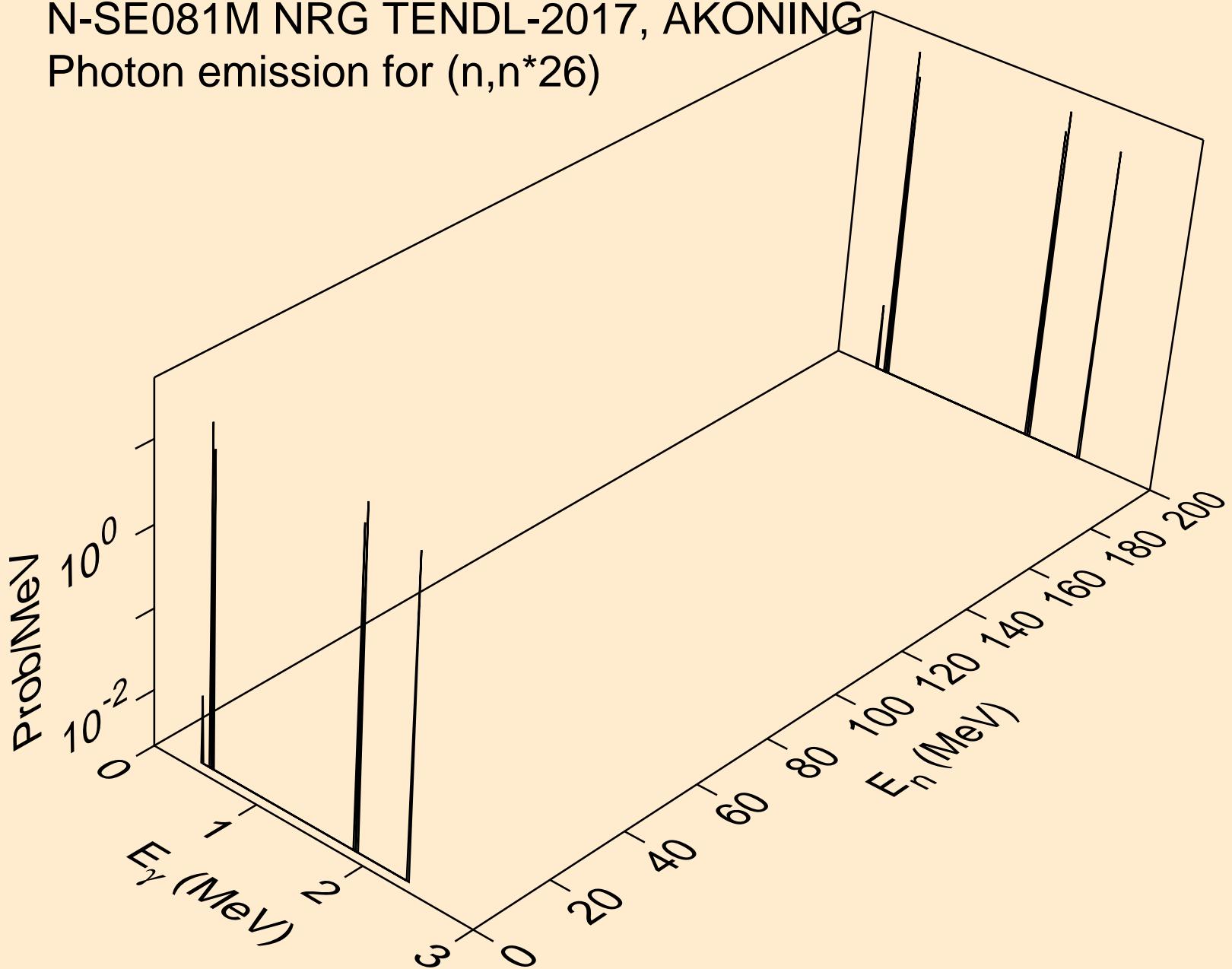
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Photon emission for (n,n\*24)



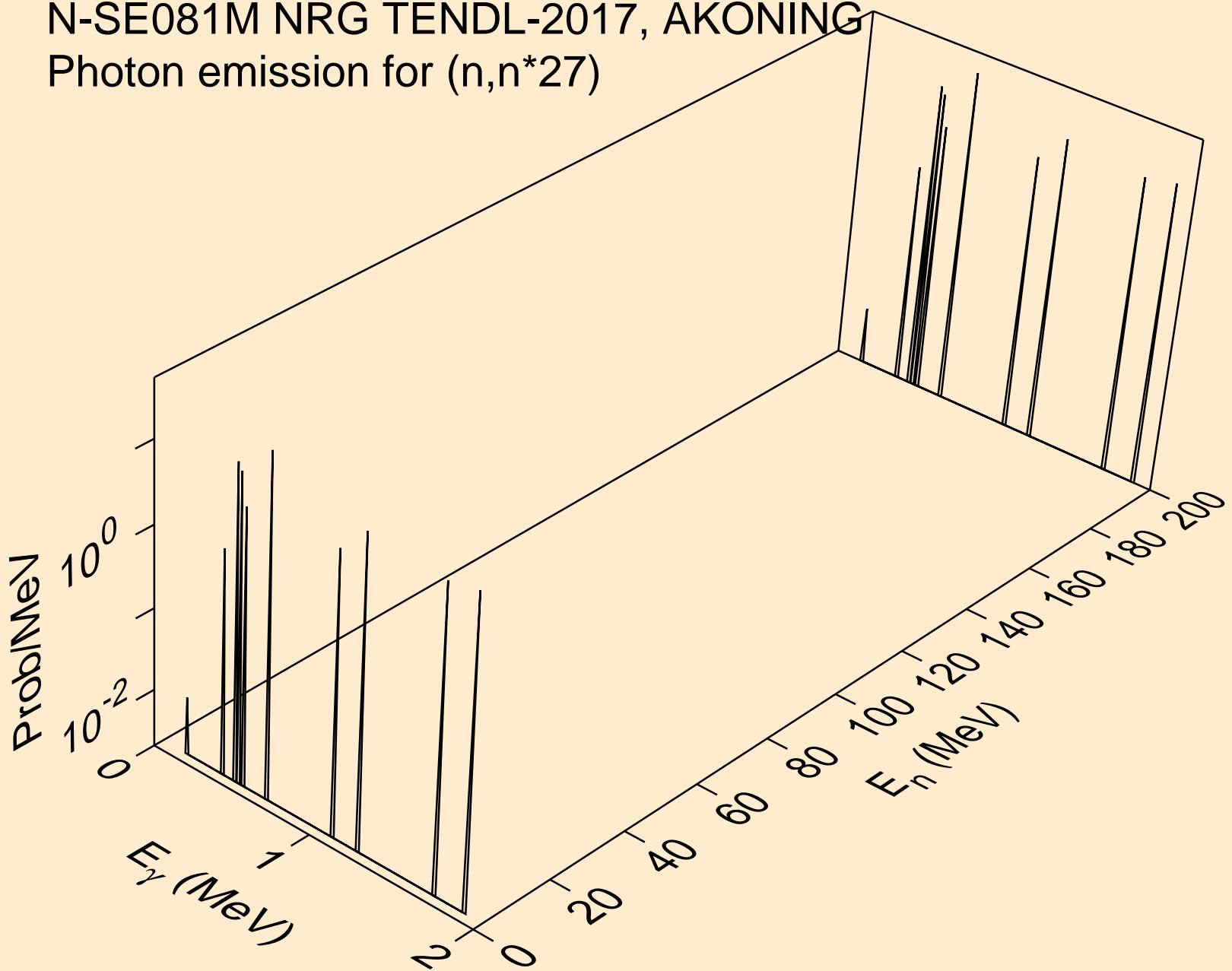
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Photon emission for (n,n\*25)



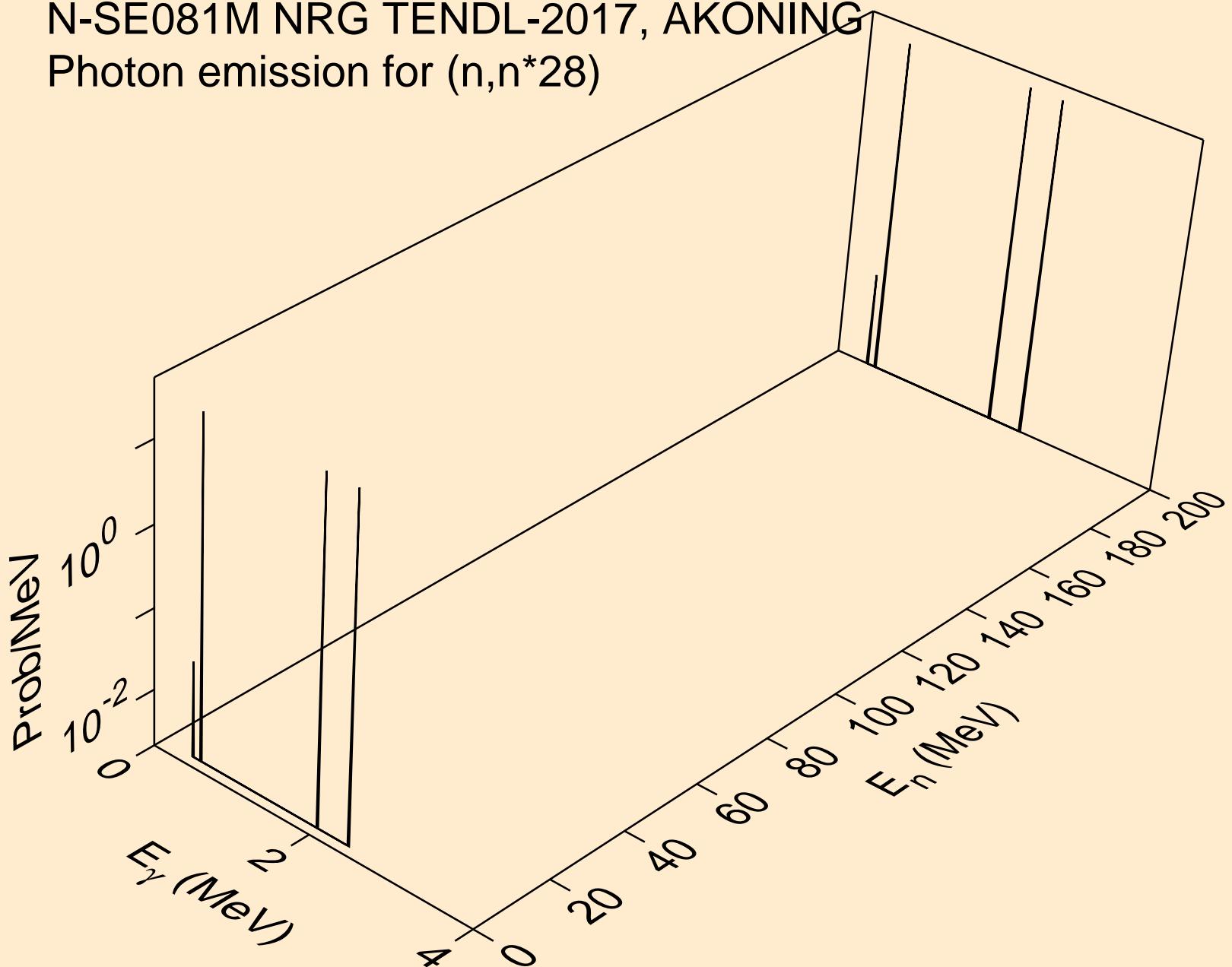
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Photon emission for (n,n\*26)



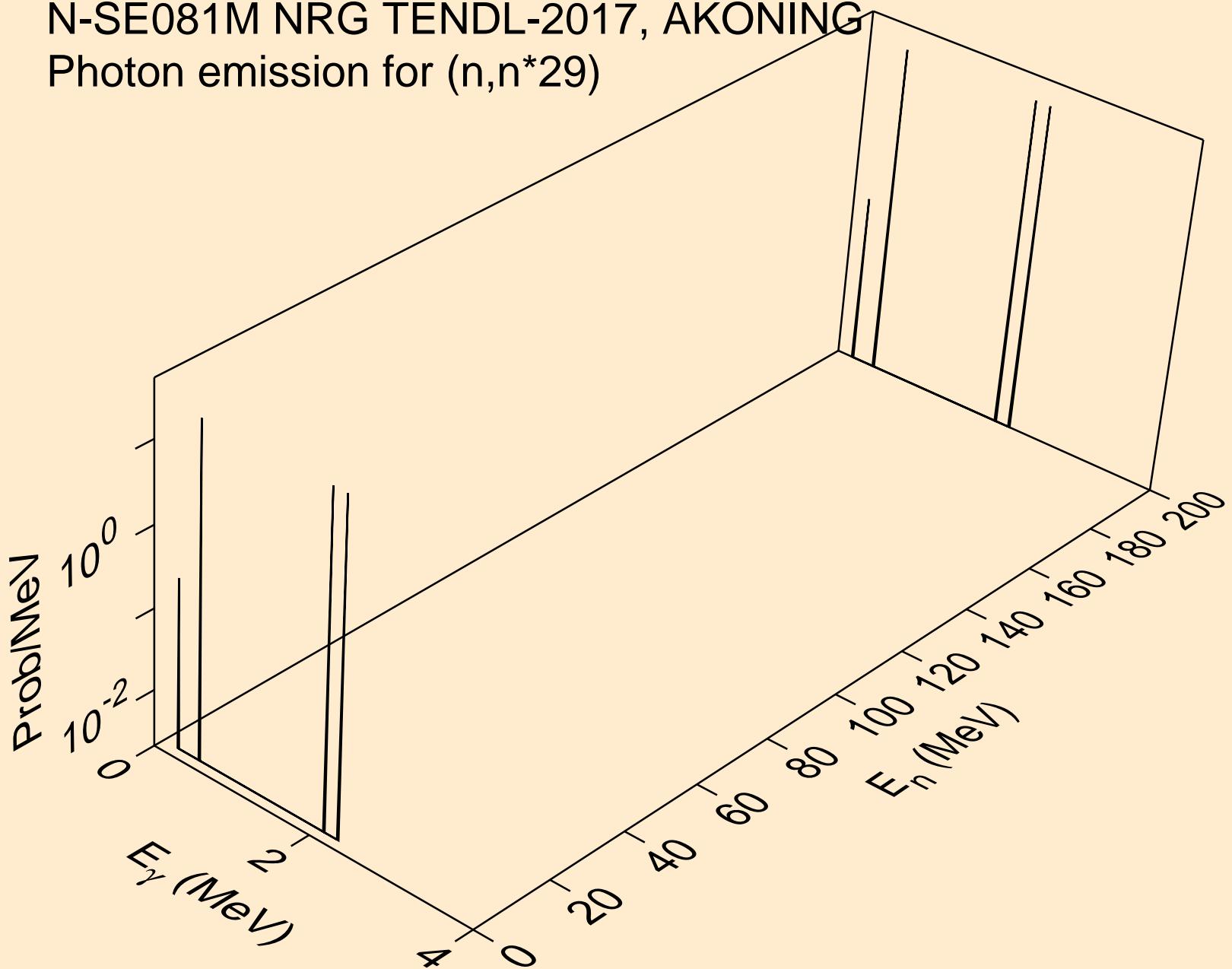
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Photon emission for (n,n\*27)



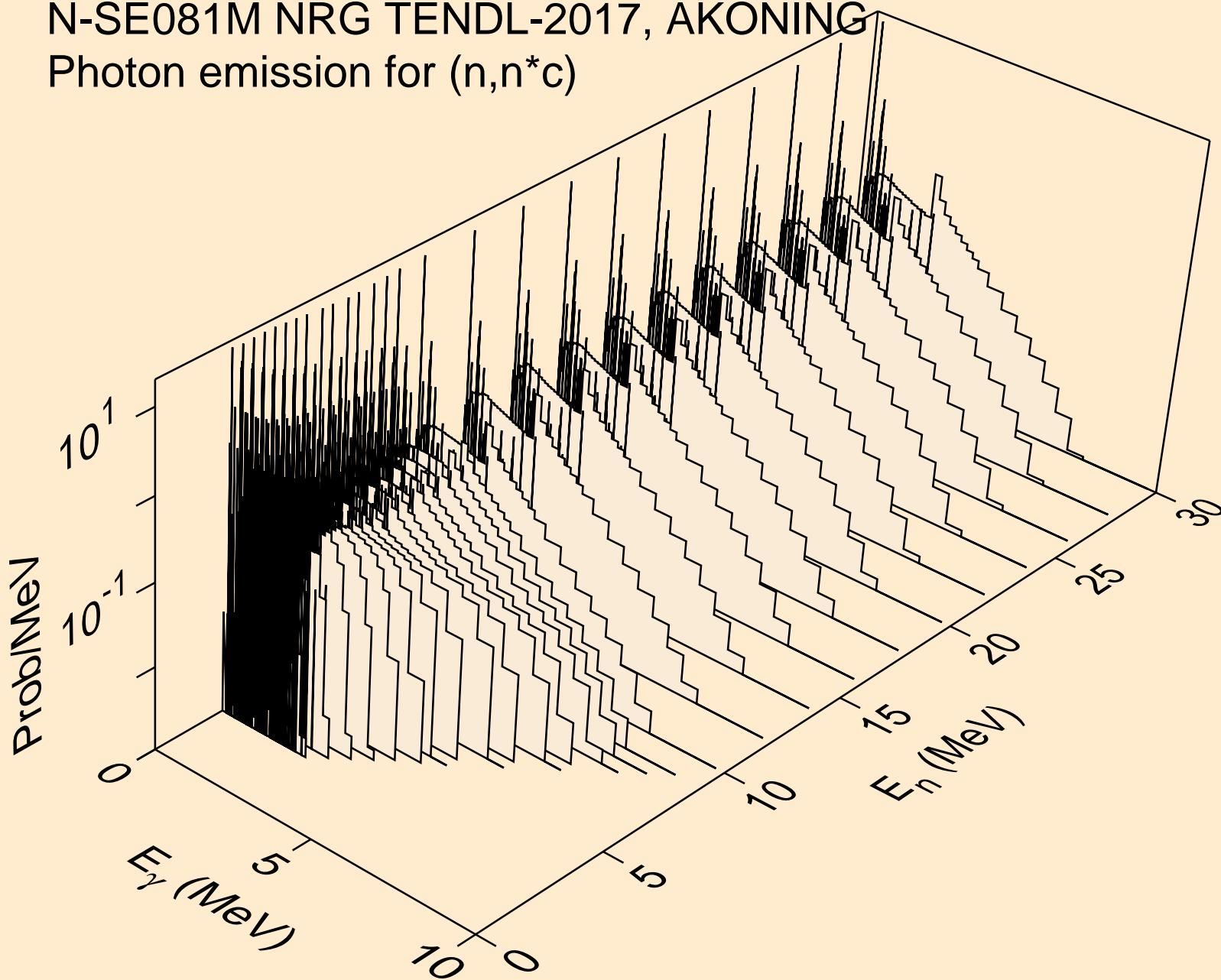
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Photon emission for (n,n\*28)



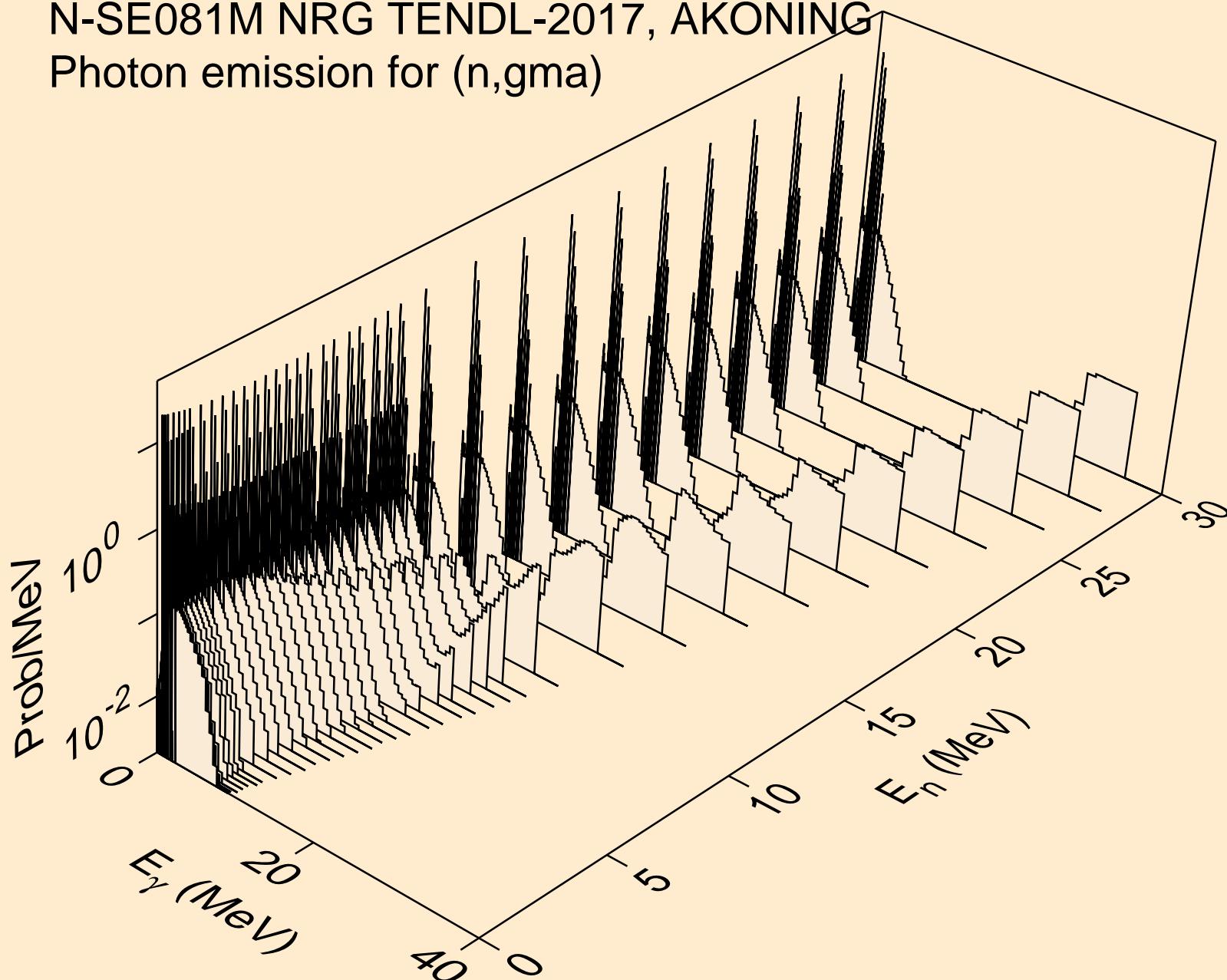
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Photon emission for (n,n\*29)



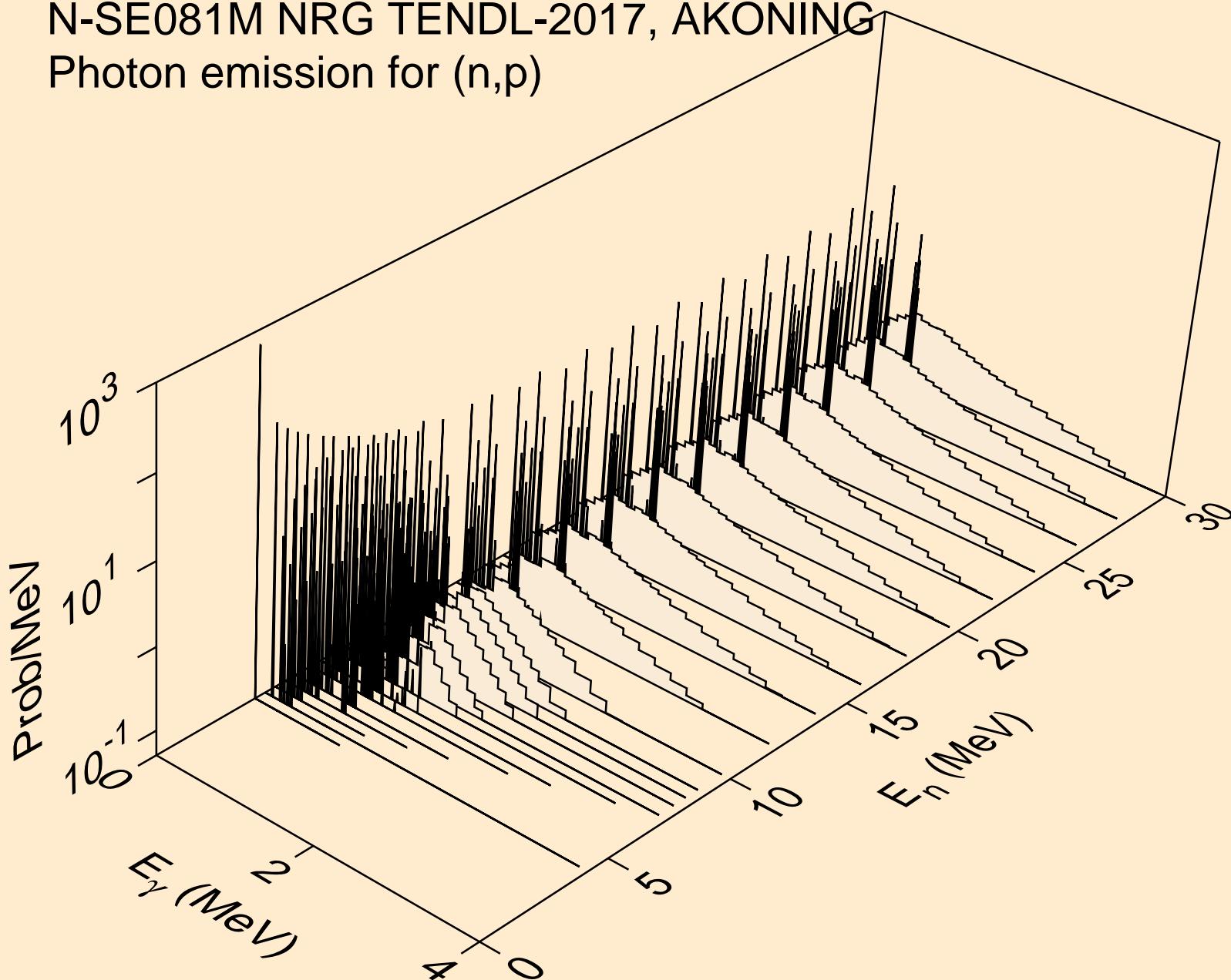
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Photon emission for (n,n\*c)



N-SE081M NRG TENDL-2017, AKONING  
Photon emission for (n,gma)

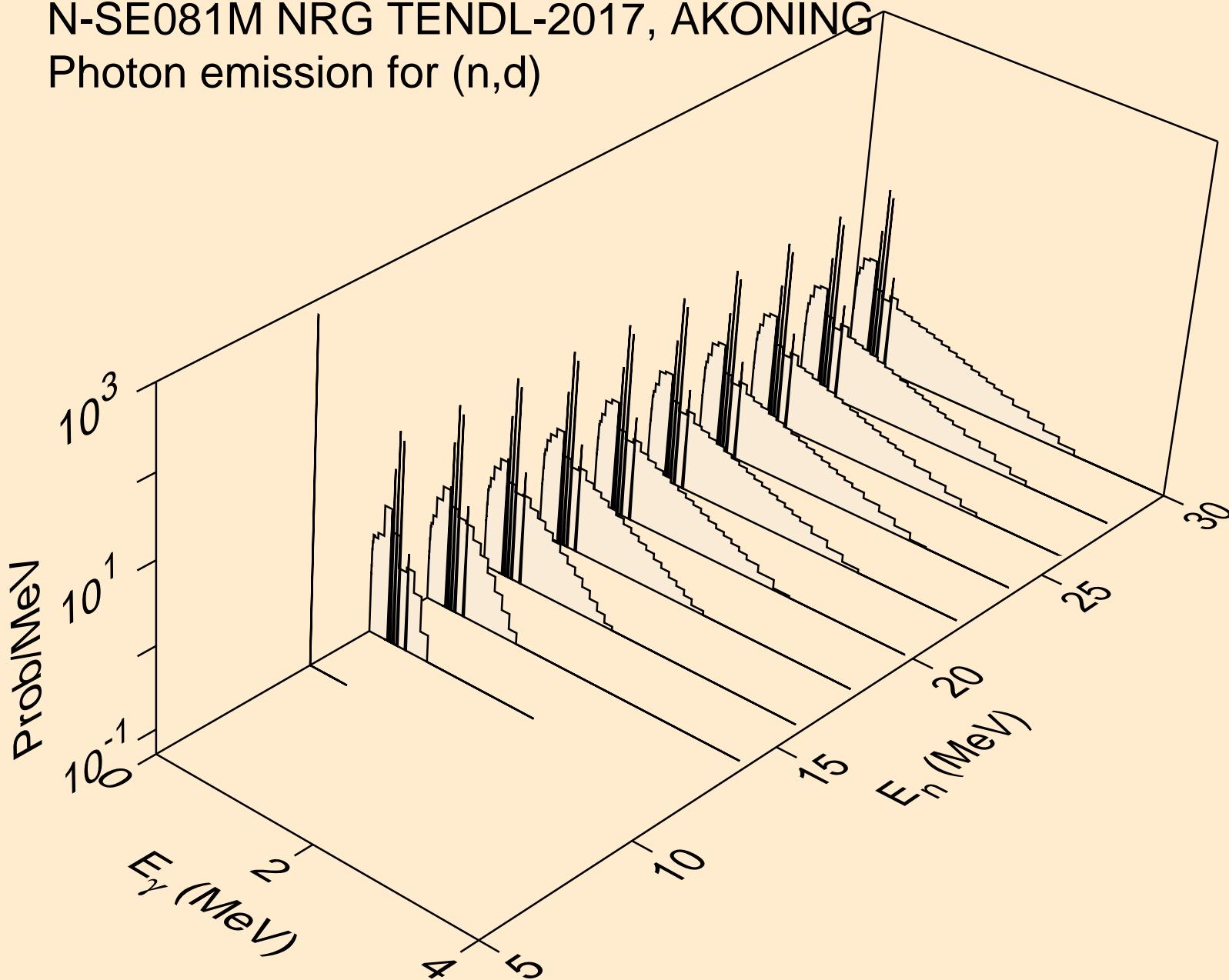


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Photon emission for (n,p)



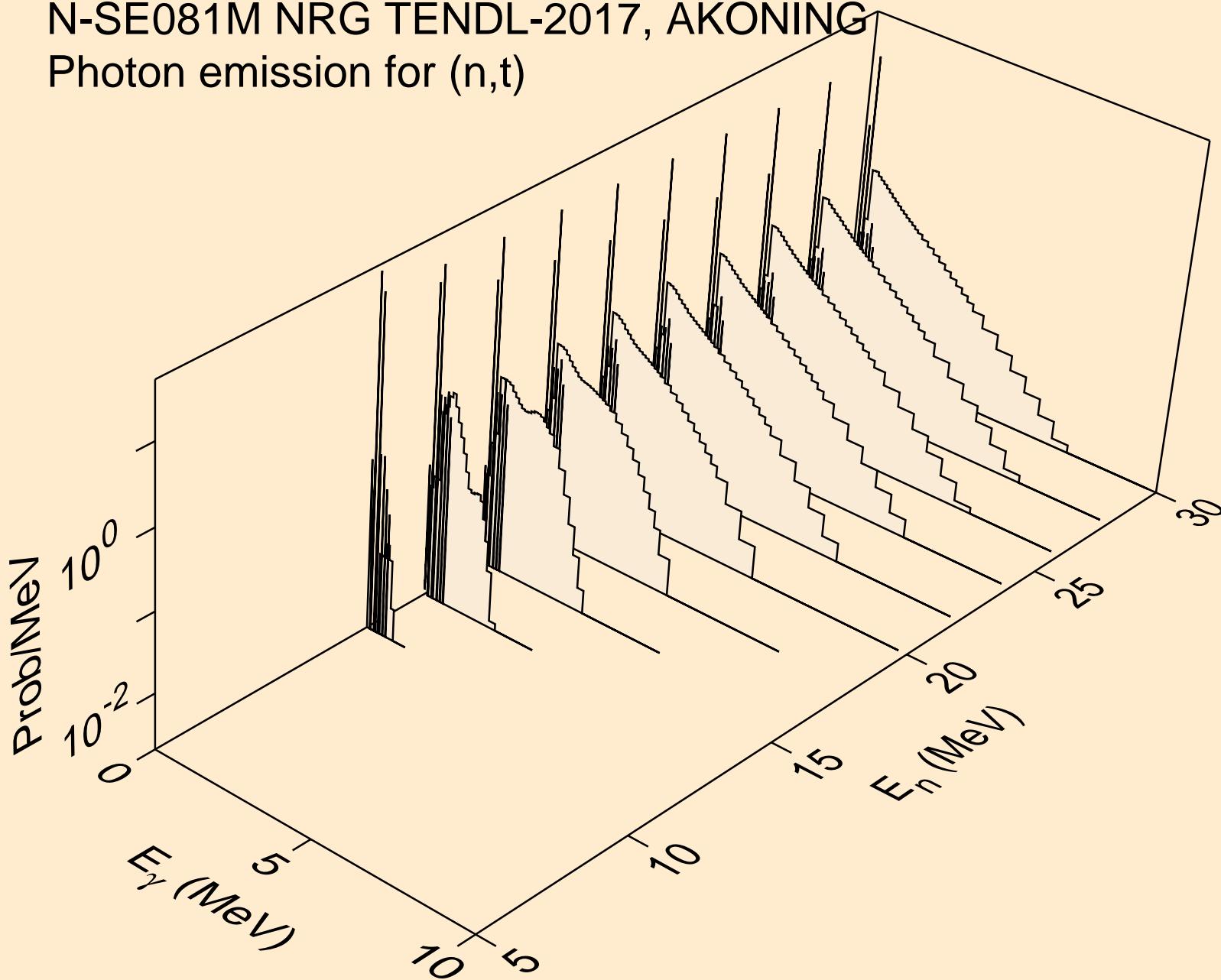
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Photon emission for (n,d)

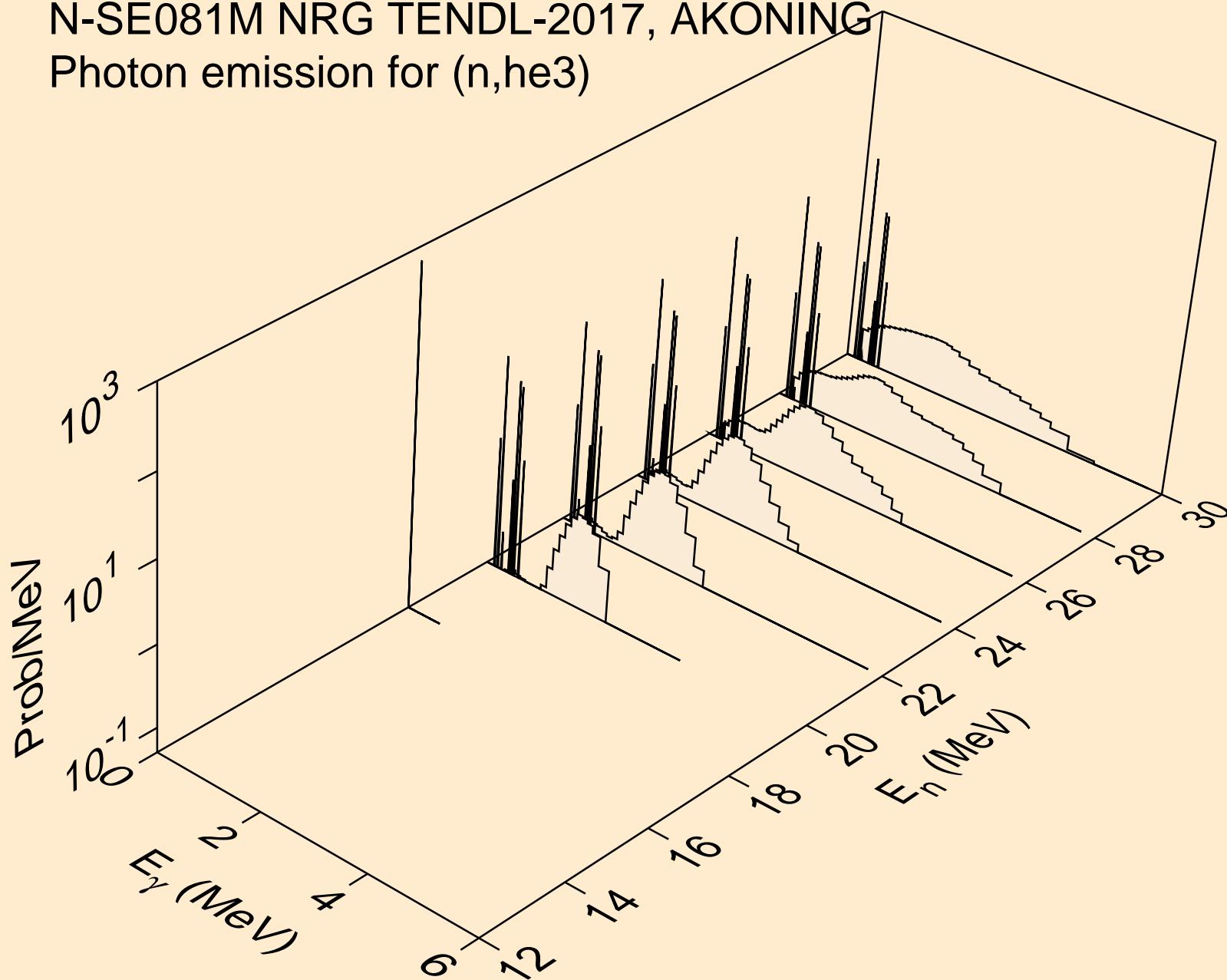


N-SE081M NRG TENDL-2017, AKONING

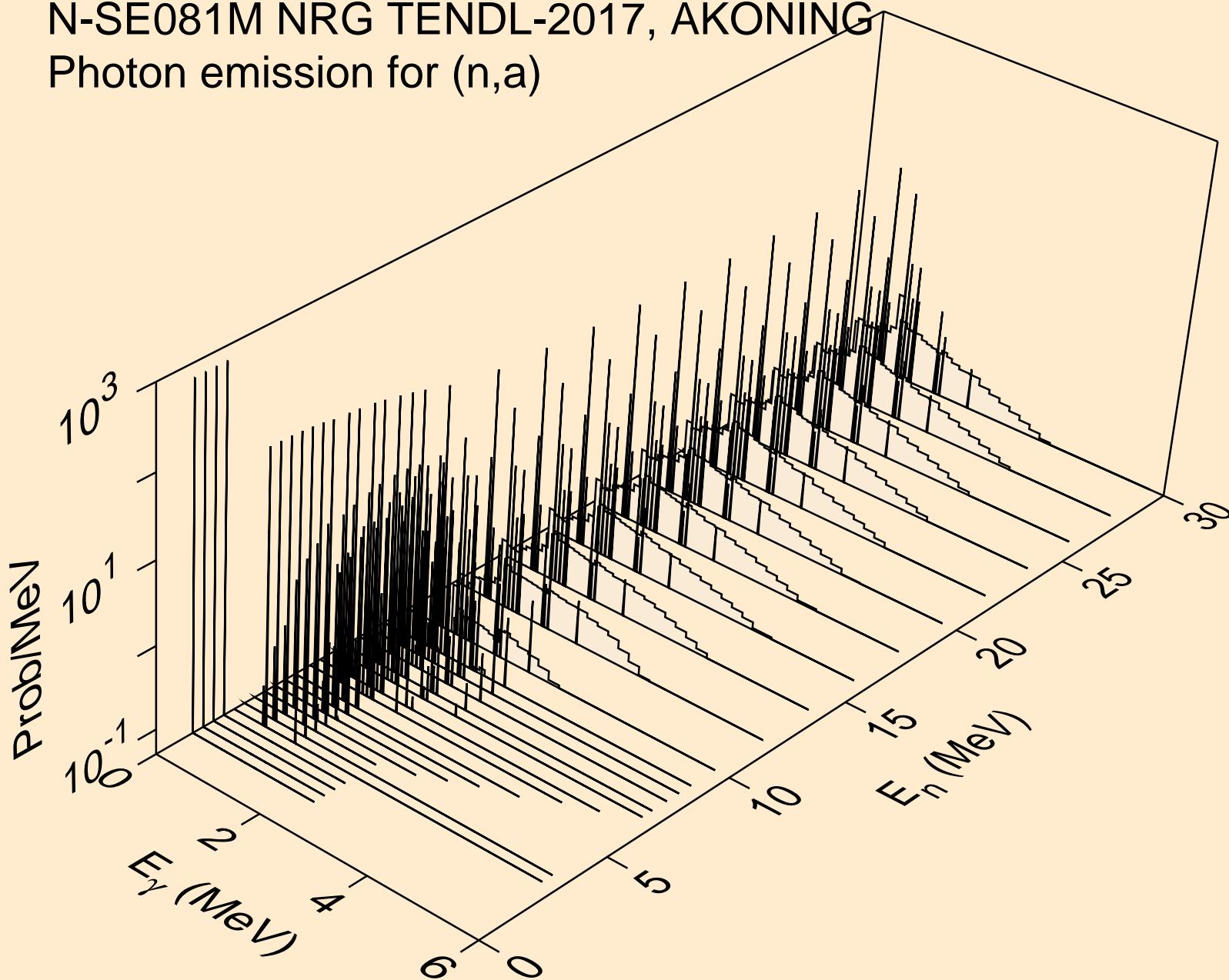
Photon emission for (n,t)



N-SE081M NRG TENDL-2017, AKONING  
Photon emission for (n,he3)

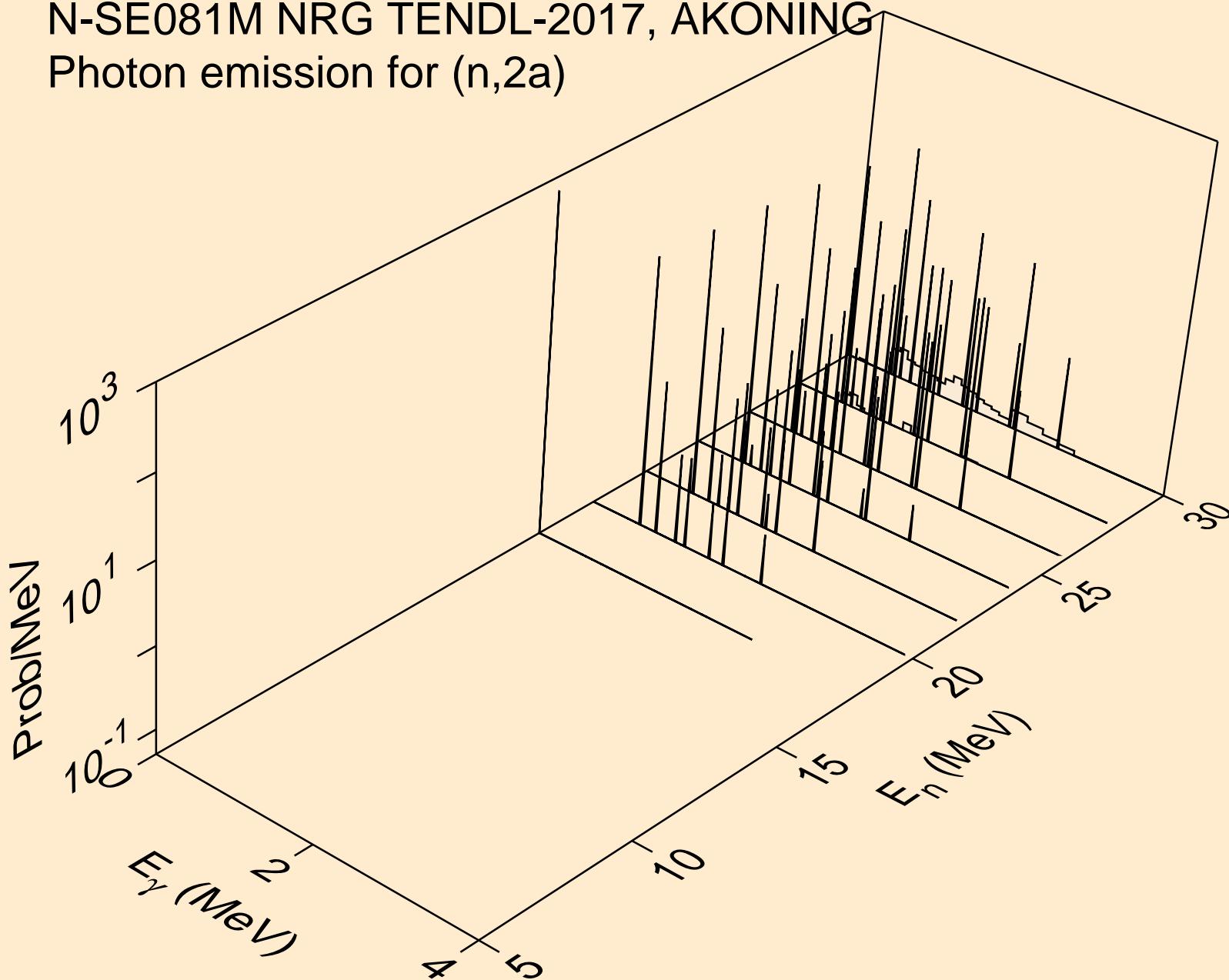


N-SE081M NRG TENDL-2017, AKONING  
Photon emission for (n,a)

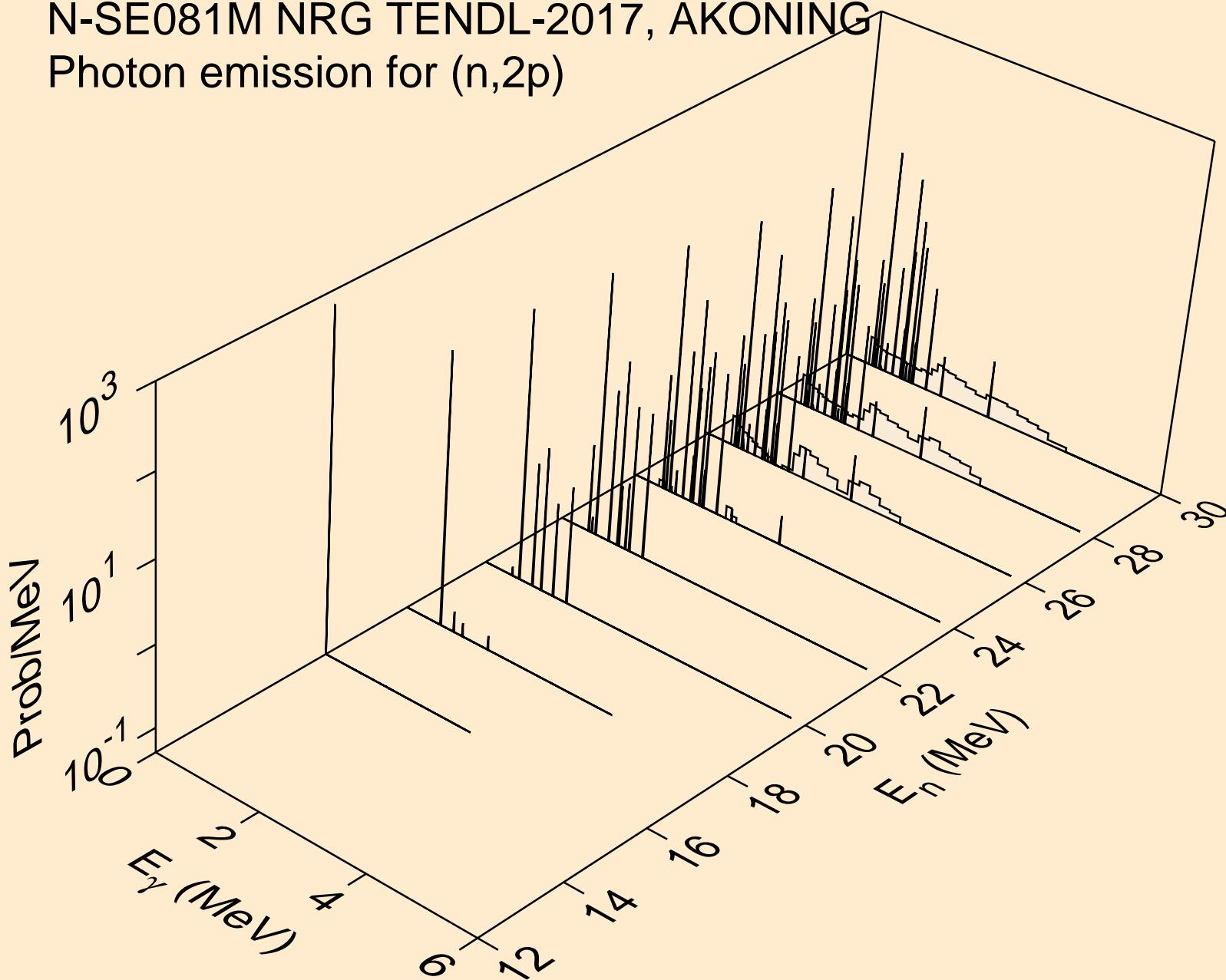


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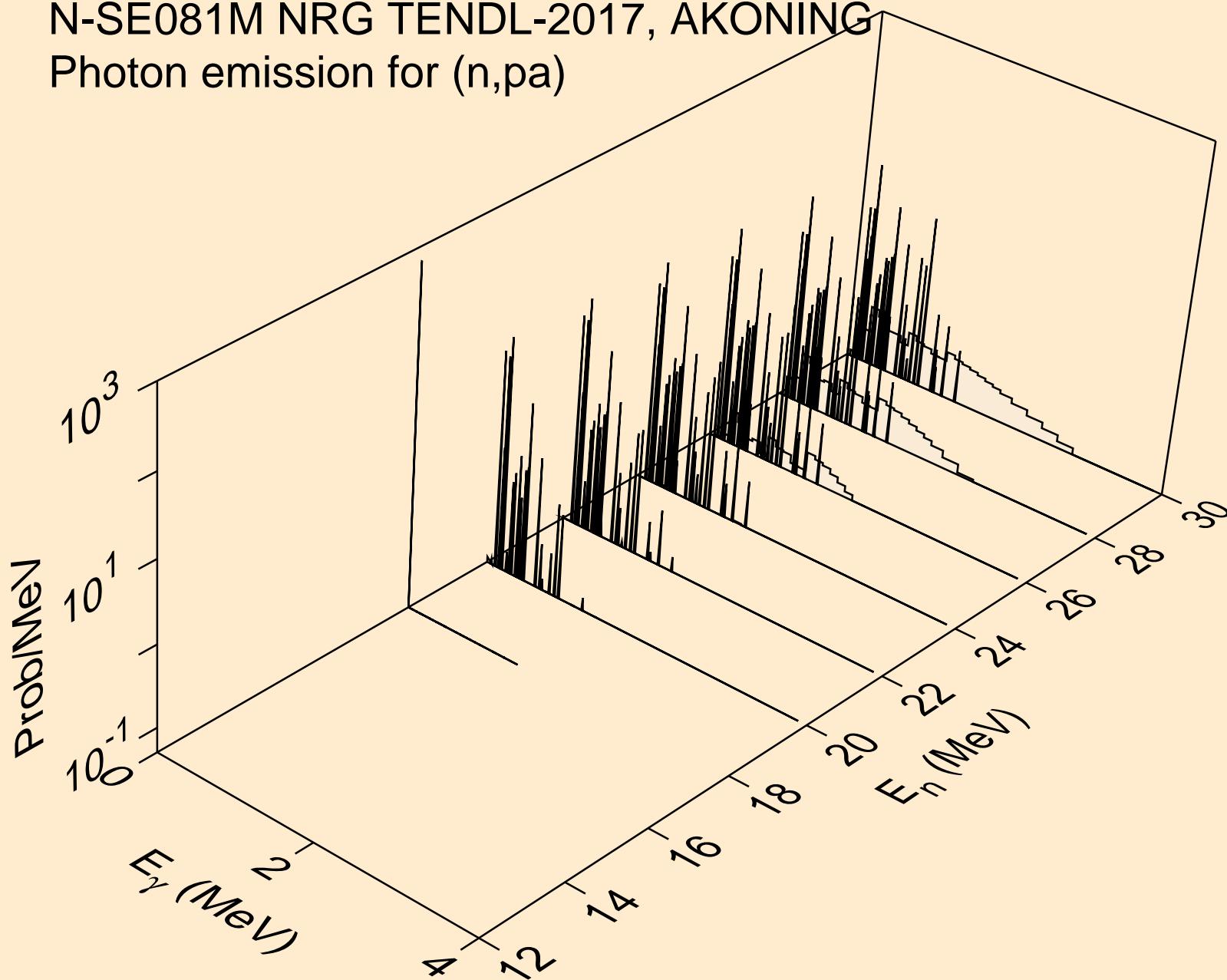
Photon emission for (n,2a)



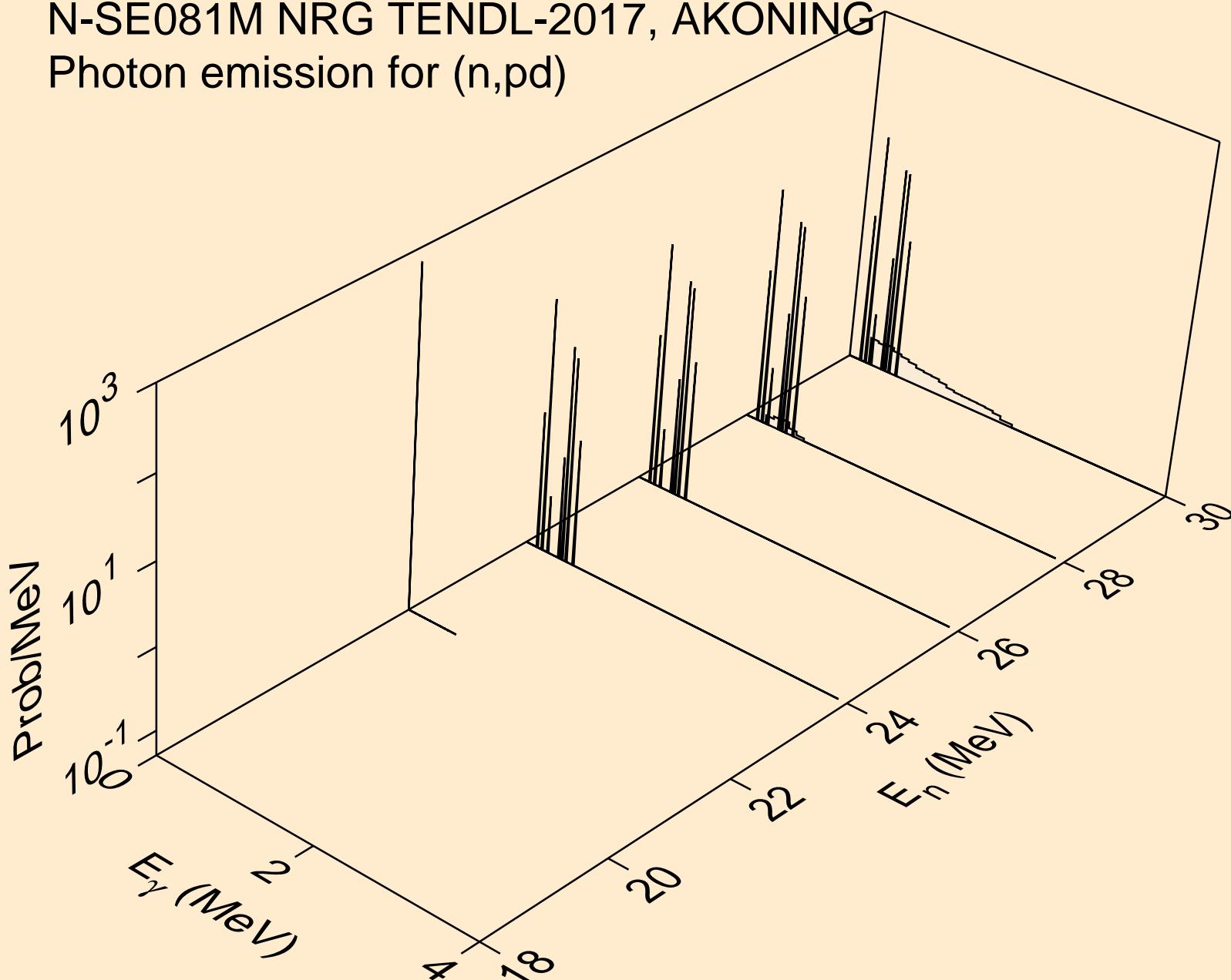
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Photon emission for (n,2p)



N-SE081M NRG TENDL-2017, AKONING  
Photon emission for (n,pa)

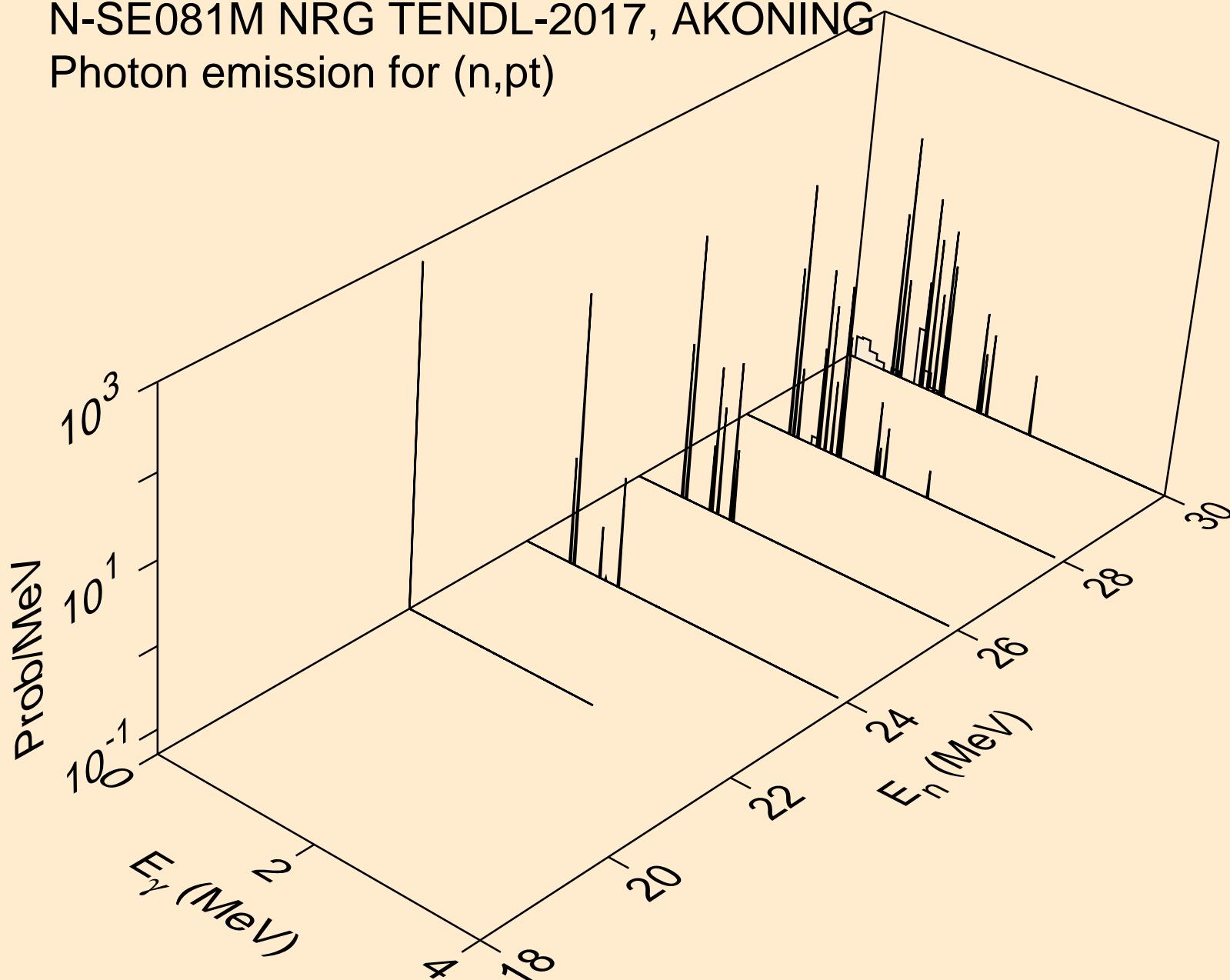


N-SE081M NRG TENDL-2017, AKONING  
Photon emission for (n,pd)

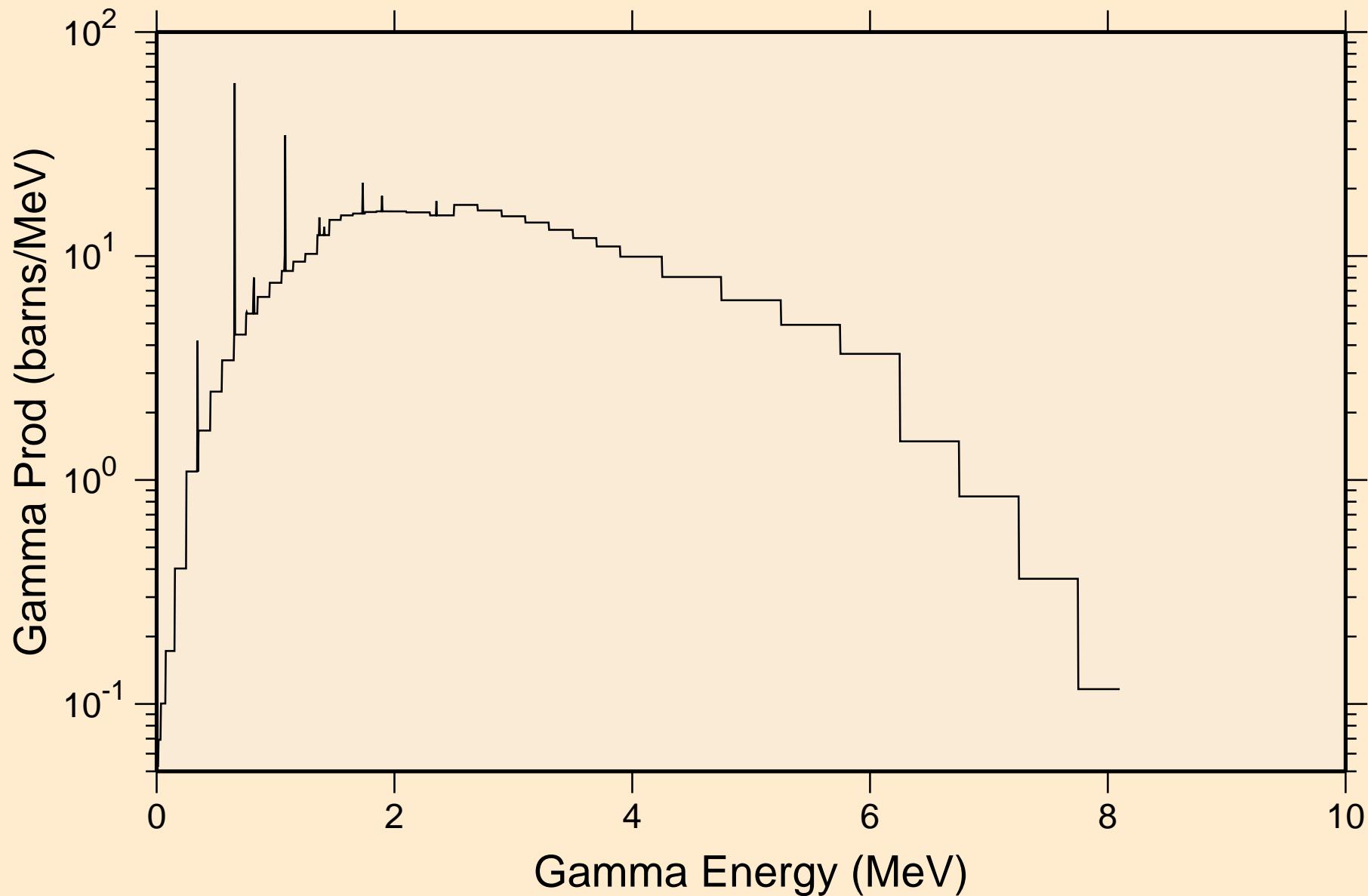


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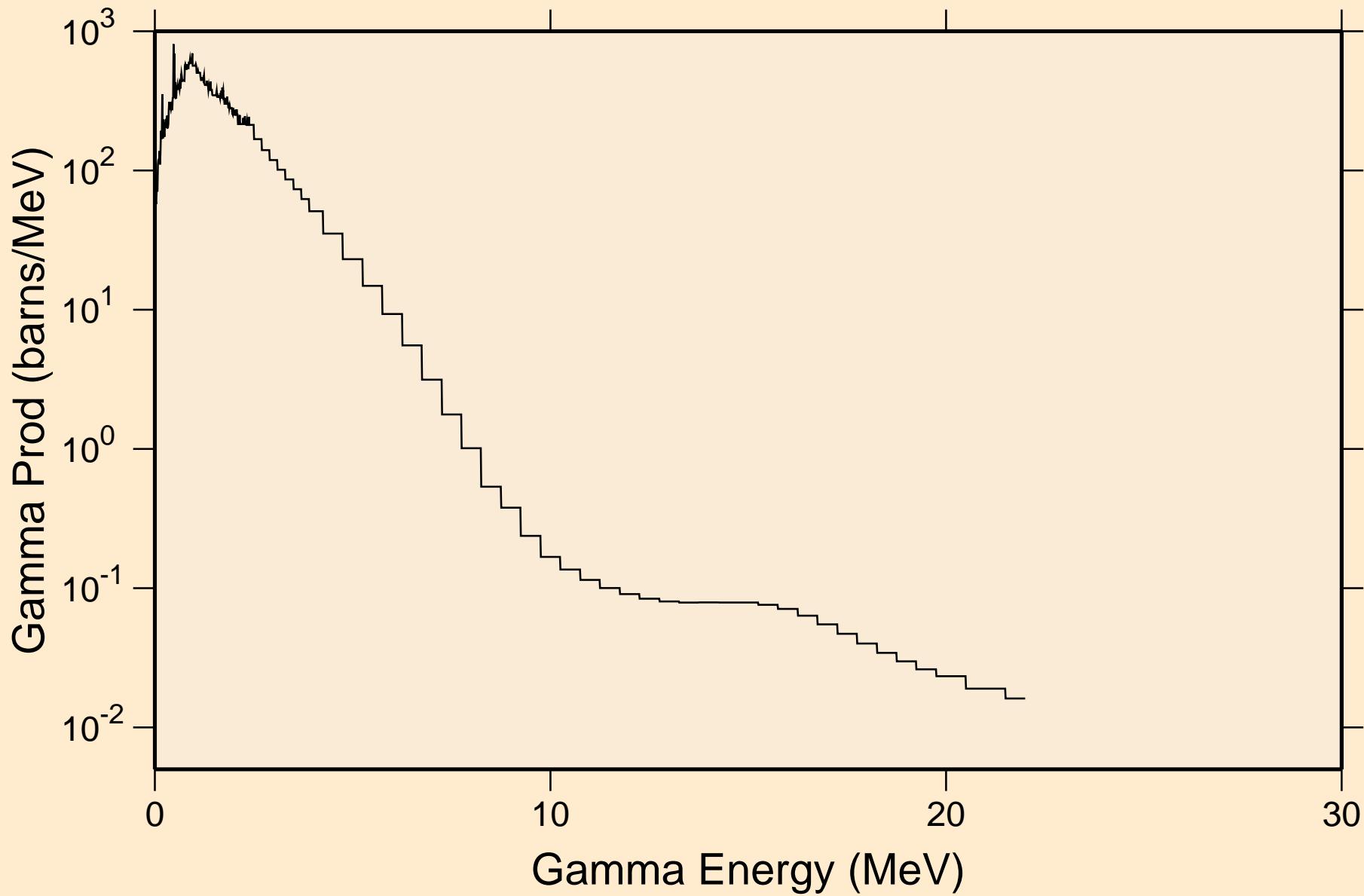
Photon emission for (n,pt)



N-SE081M NRG TENDL-2017, AKONING  
thermal capture photon spectrum

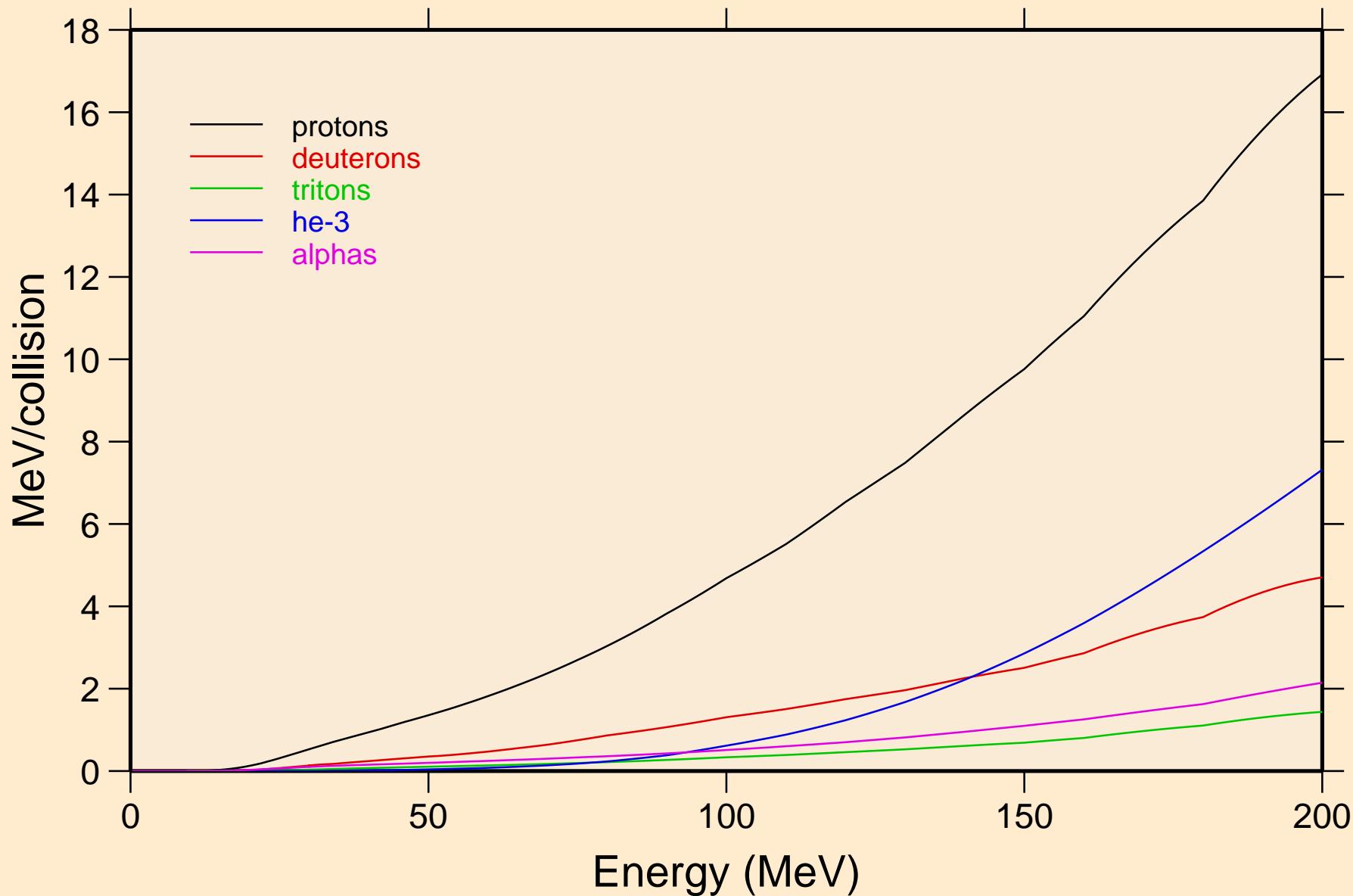


N-SE081M NRG TENDL-2017, AKONING  
14 MeV photon spectrum



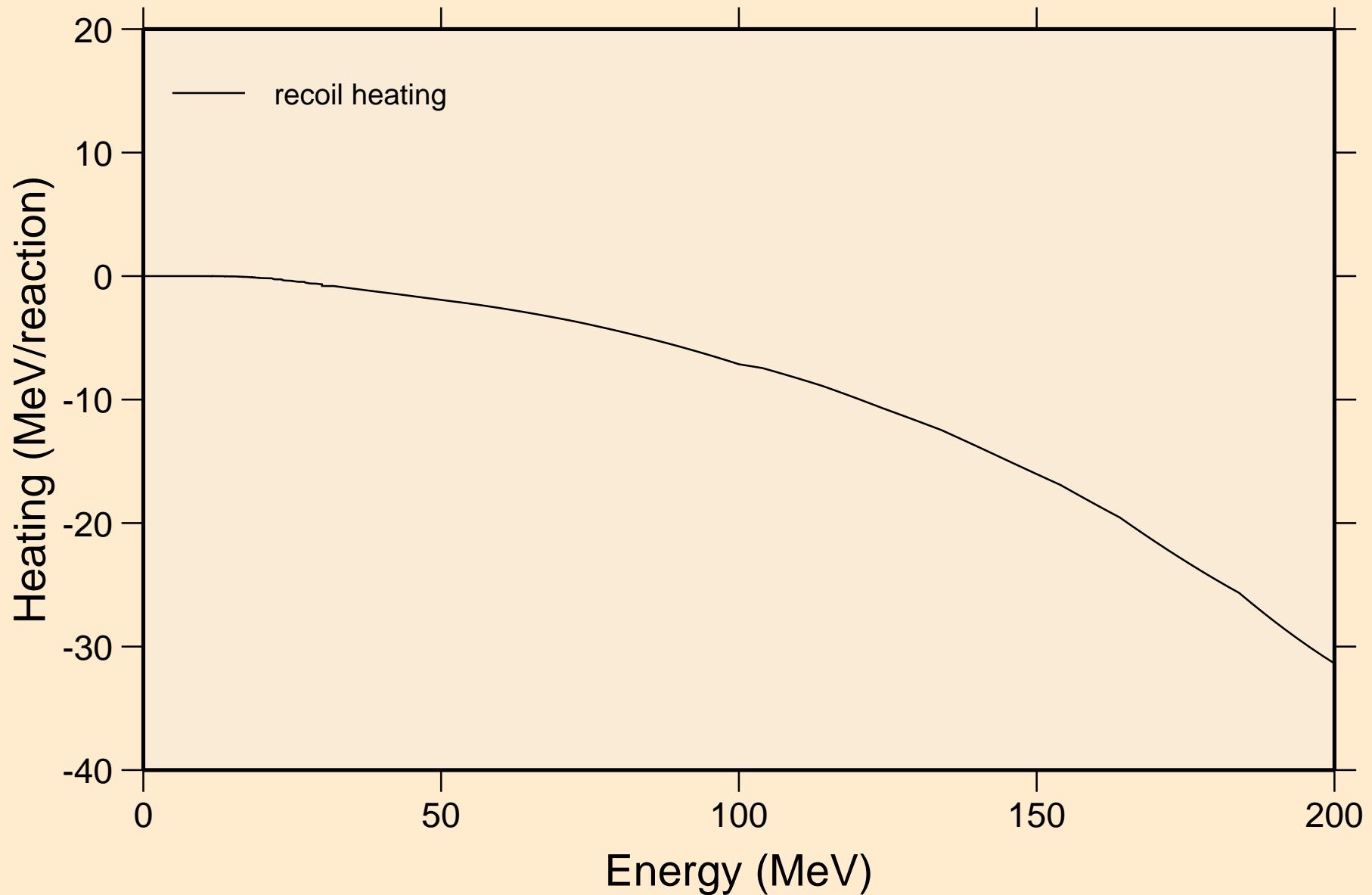
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## Particle heating contributions



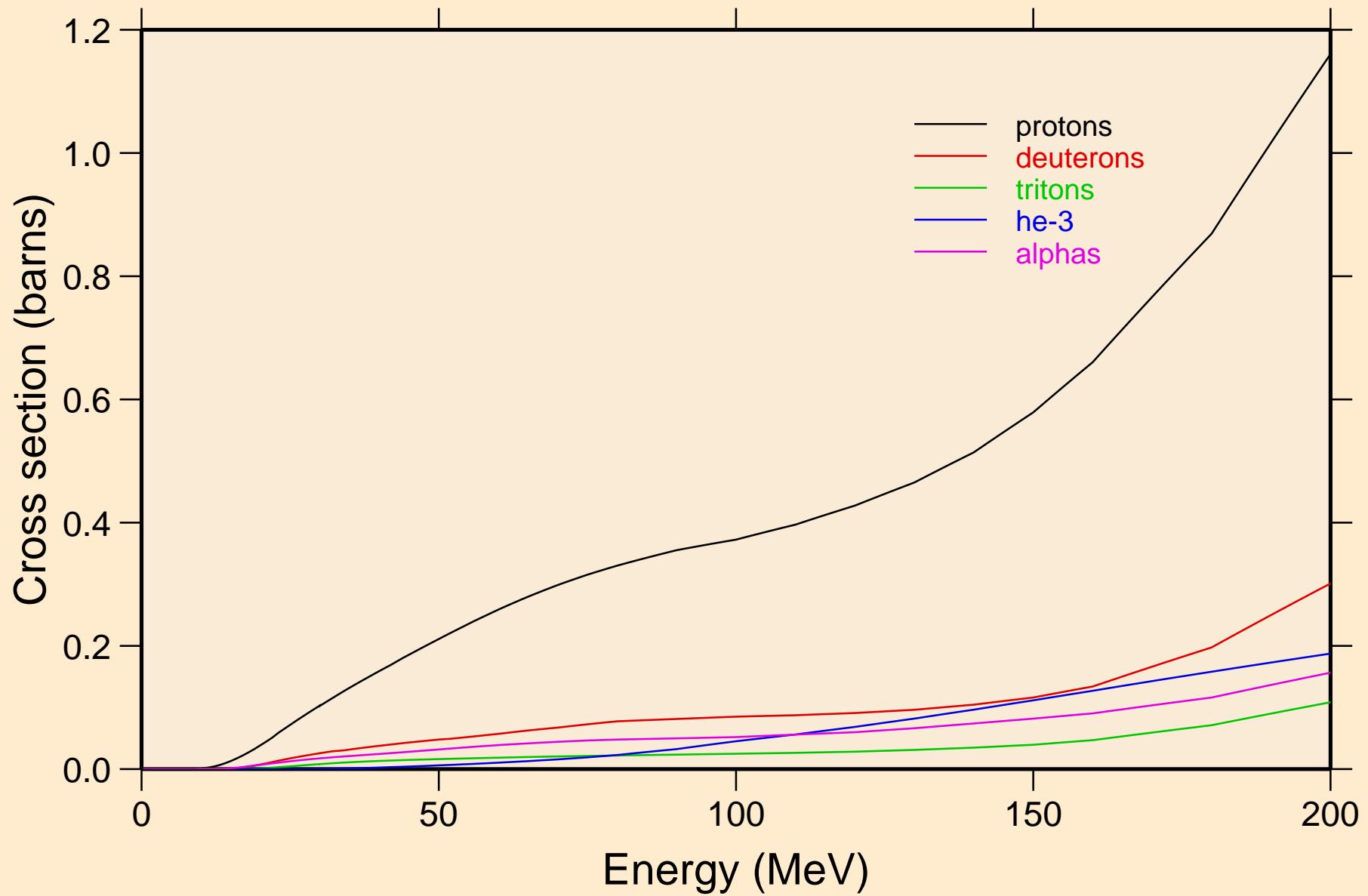
# N-SE081M NRG TENDL-2017, AKONING

## Recoil Heating

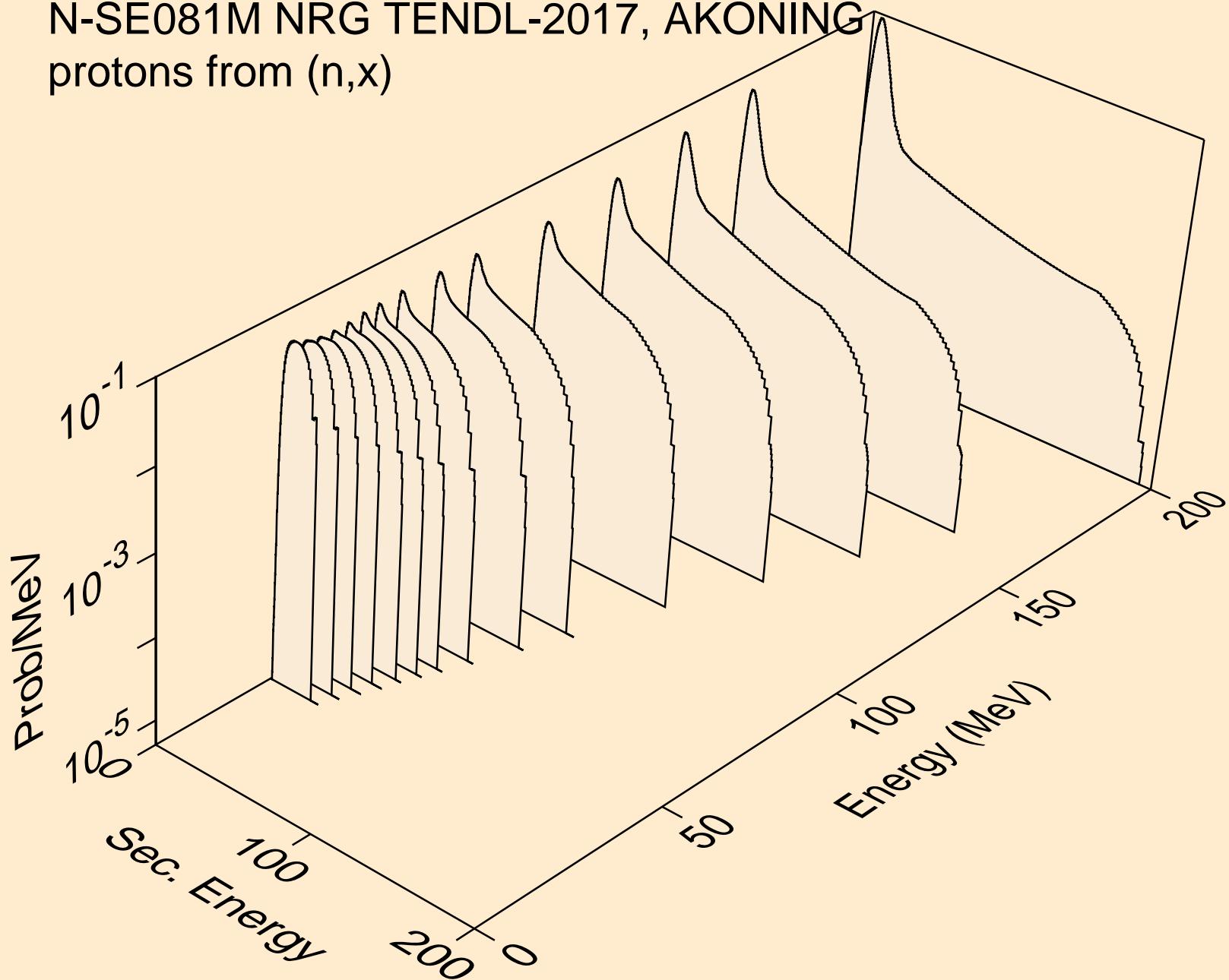


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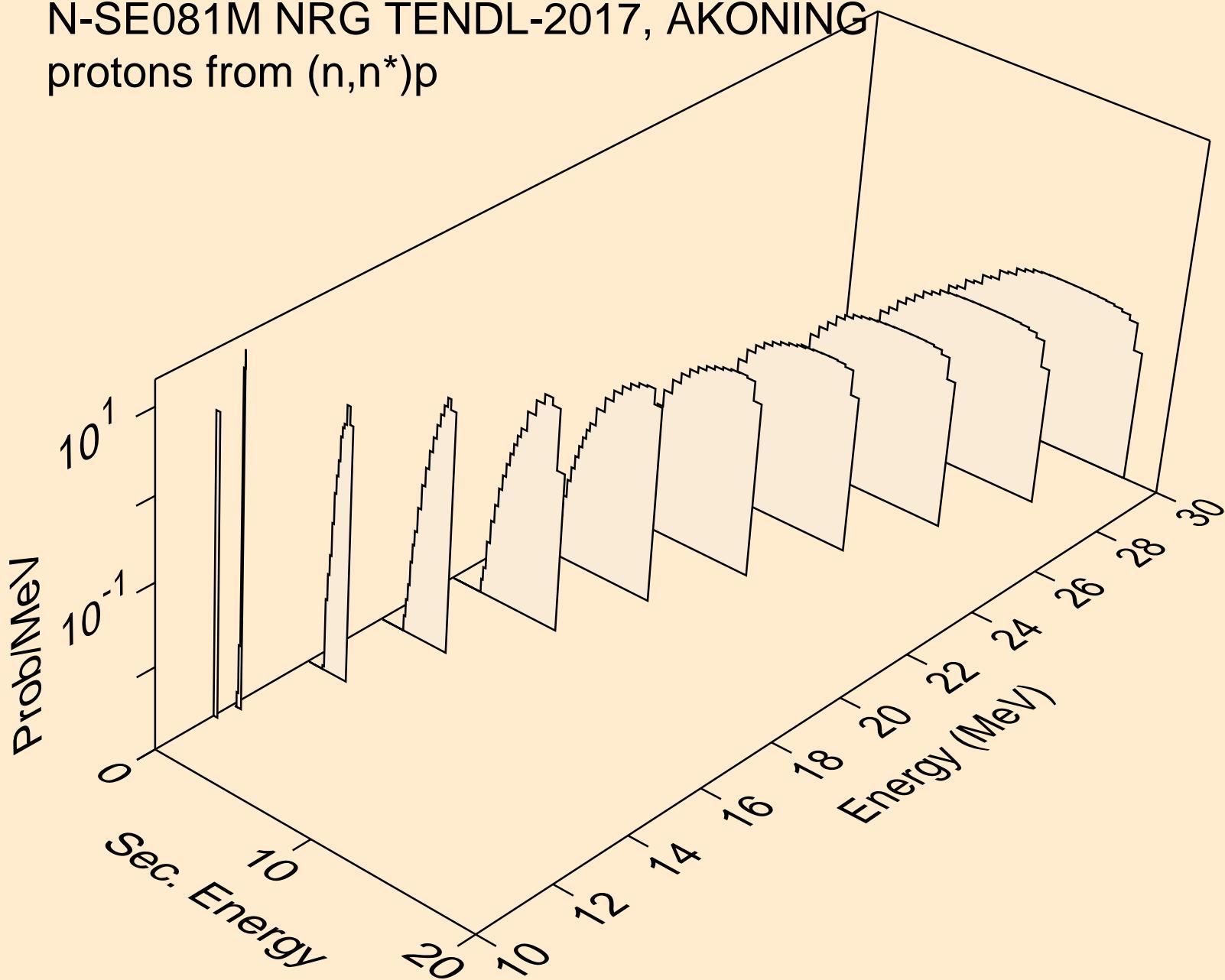
## Particle production cross sections



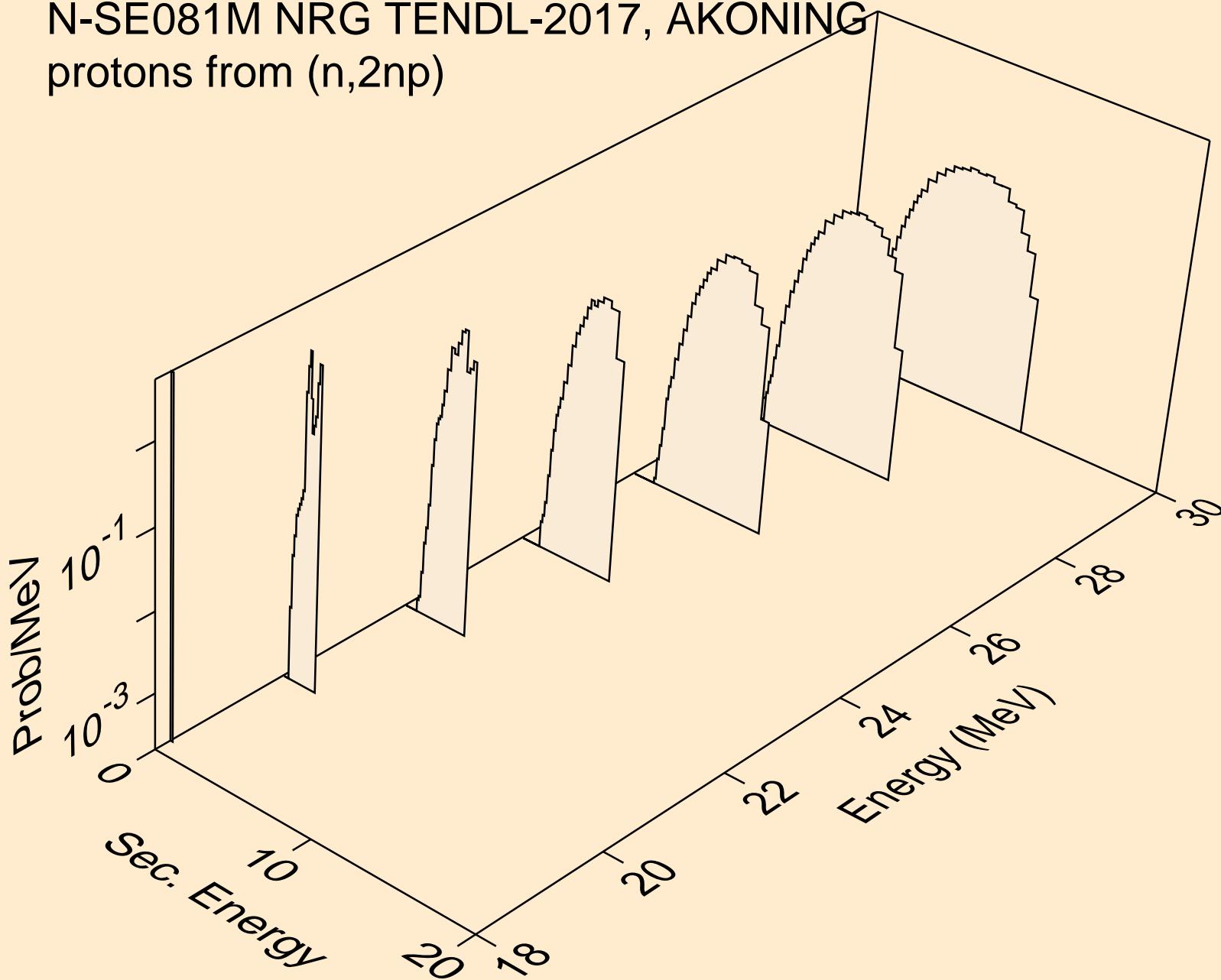
N-SE081M NRG TENDL-2017, AKONING  
protons from ( $n, x$ )



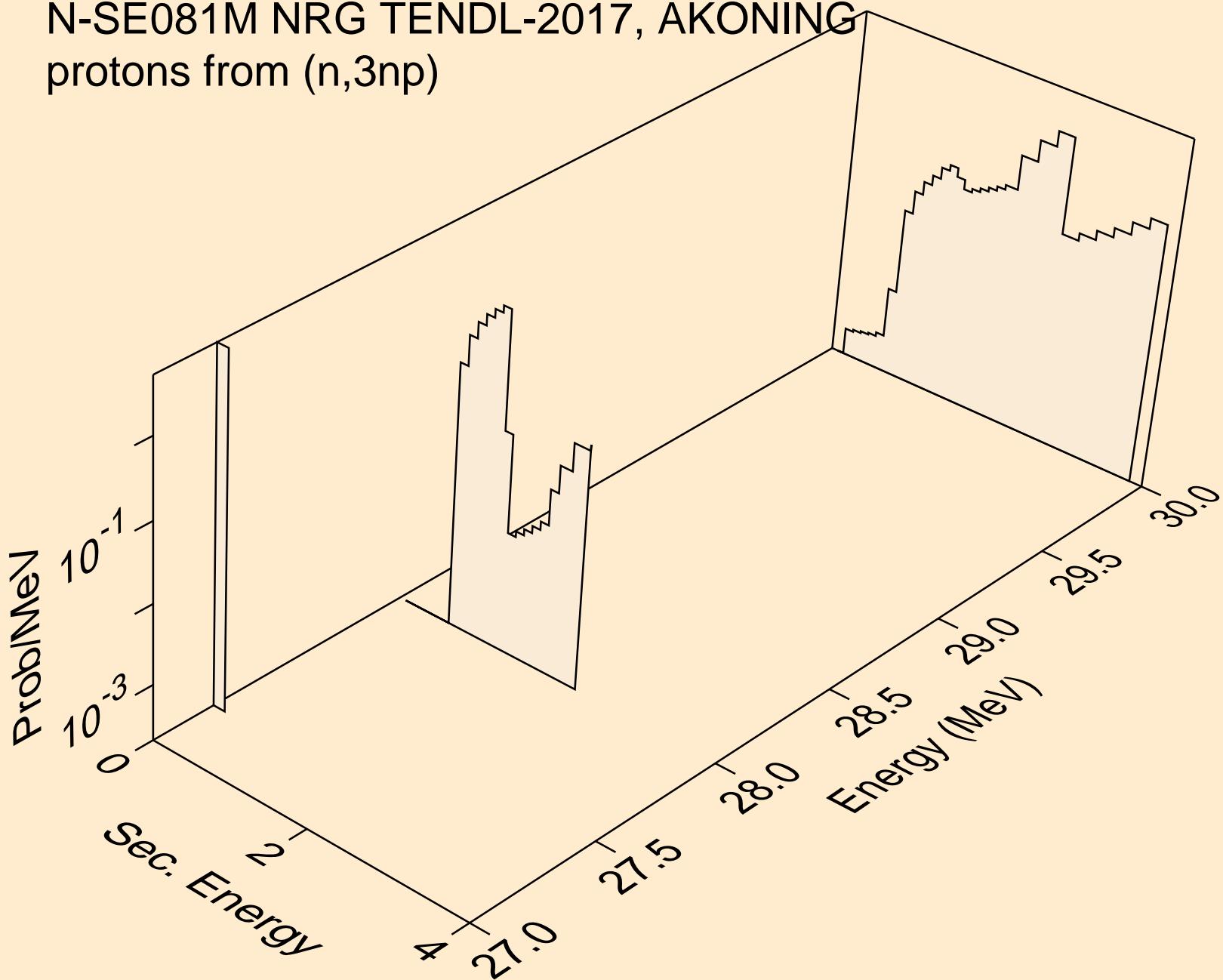
N-SE081M NRG TENDL-2017, AKONING  
protons from  $(n,n^*)p$



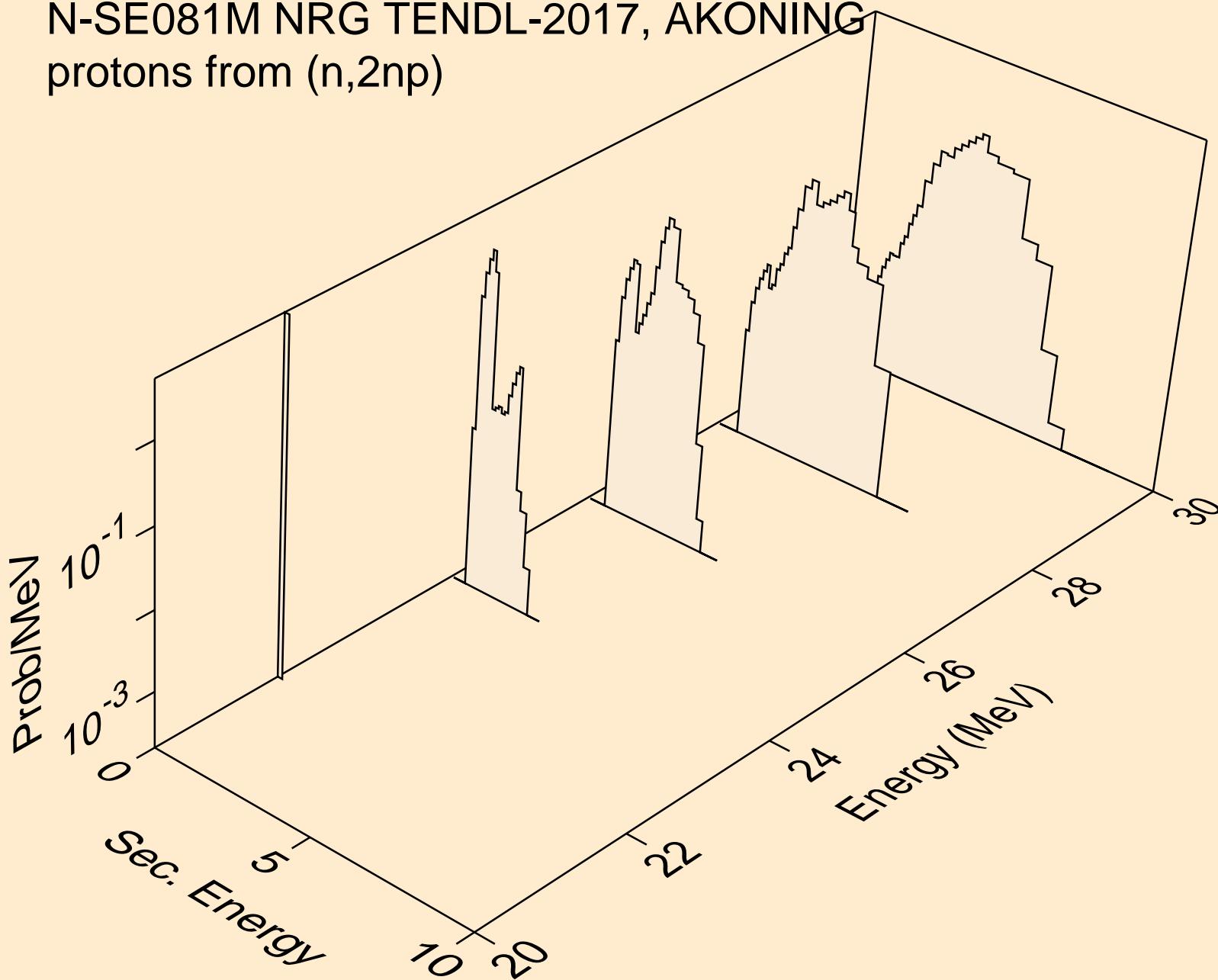
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protons from ( $n,2np$ )



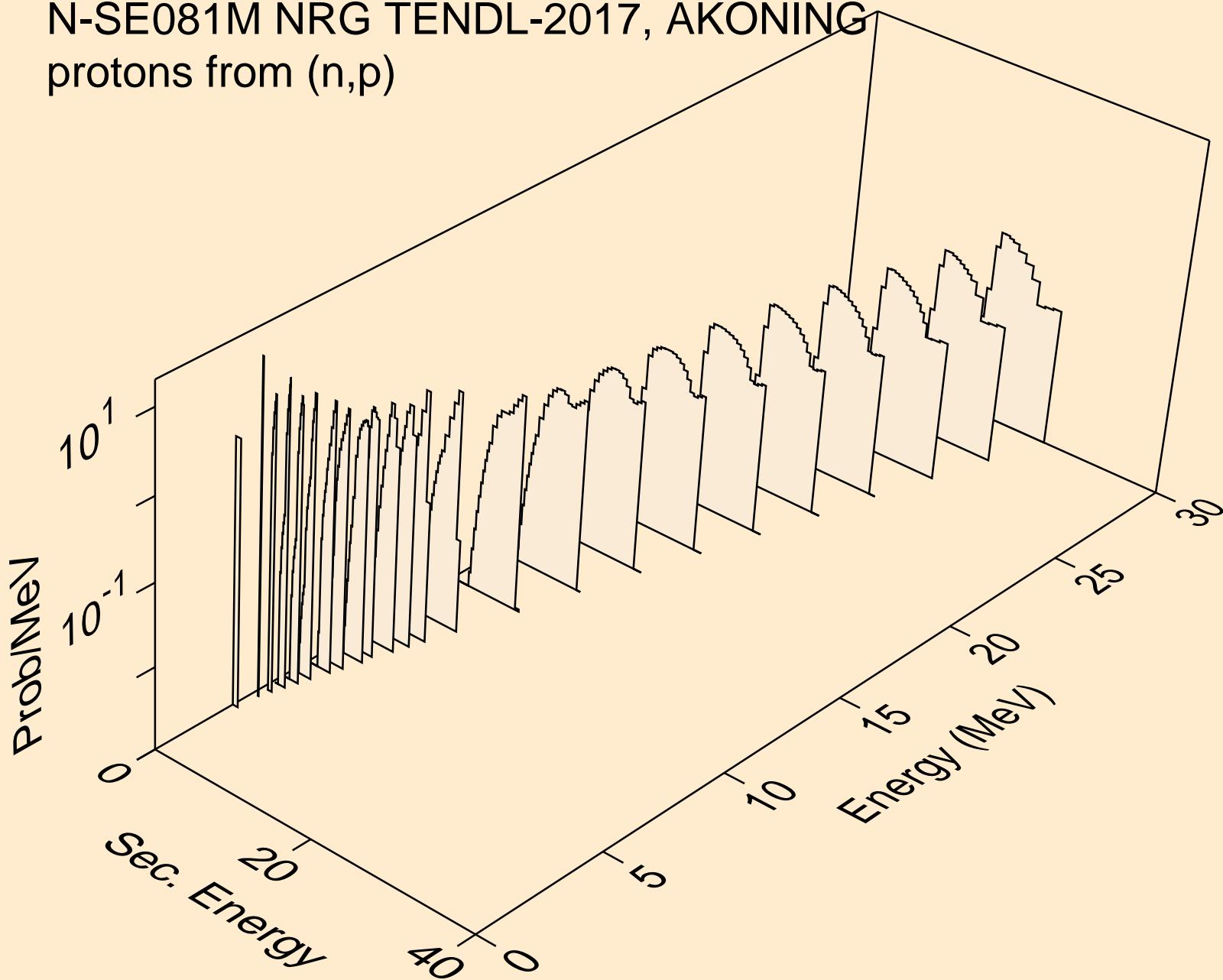
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protons from ( $n,3np$ )



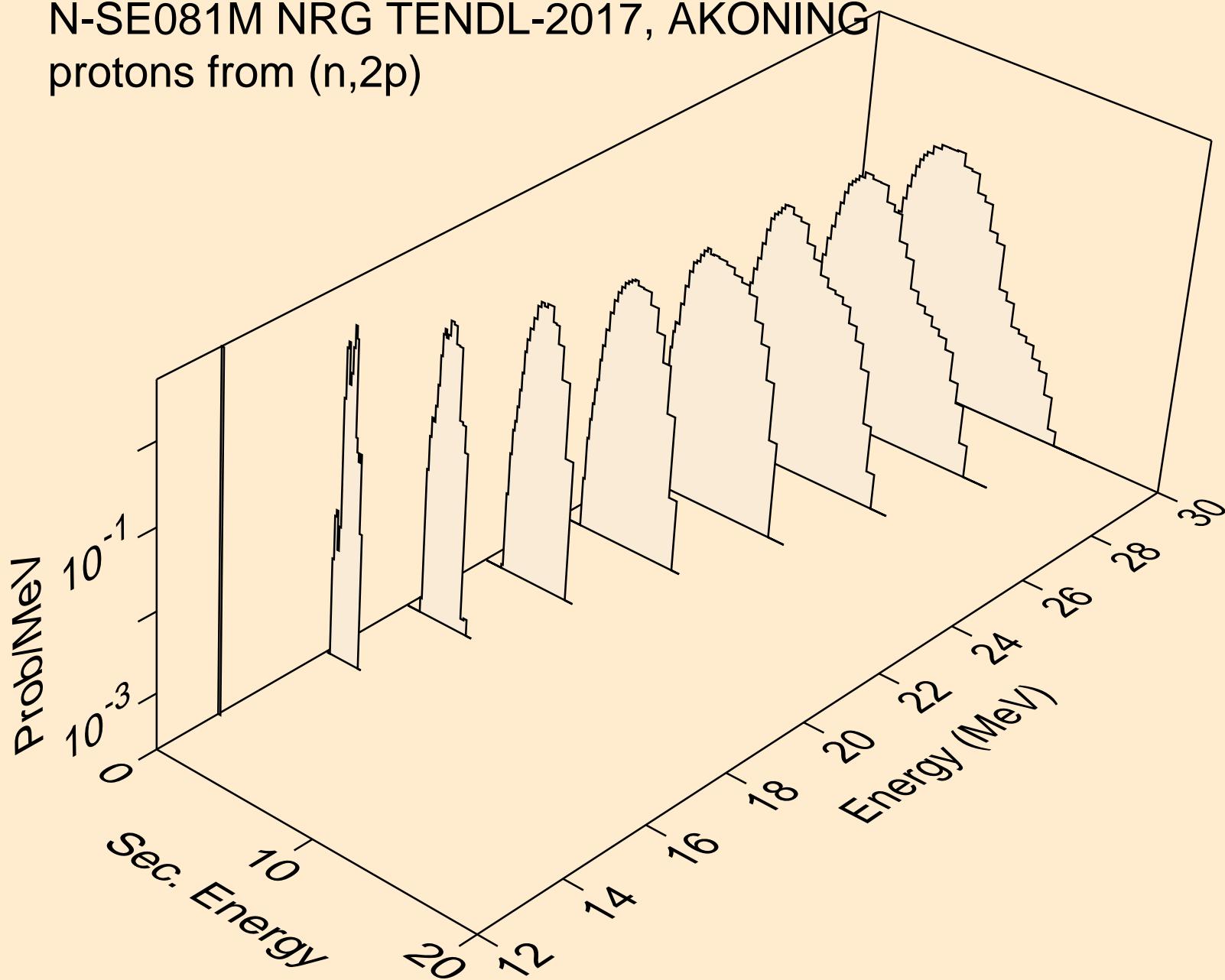
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protons from ( $n,2np$ )



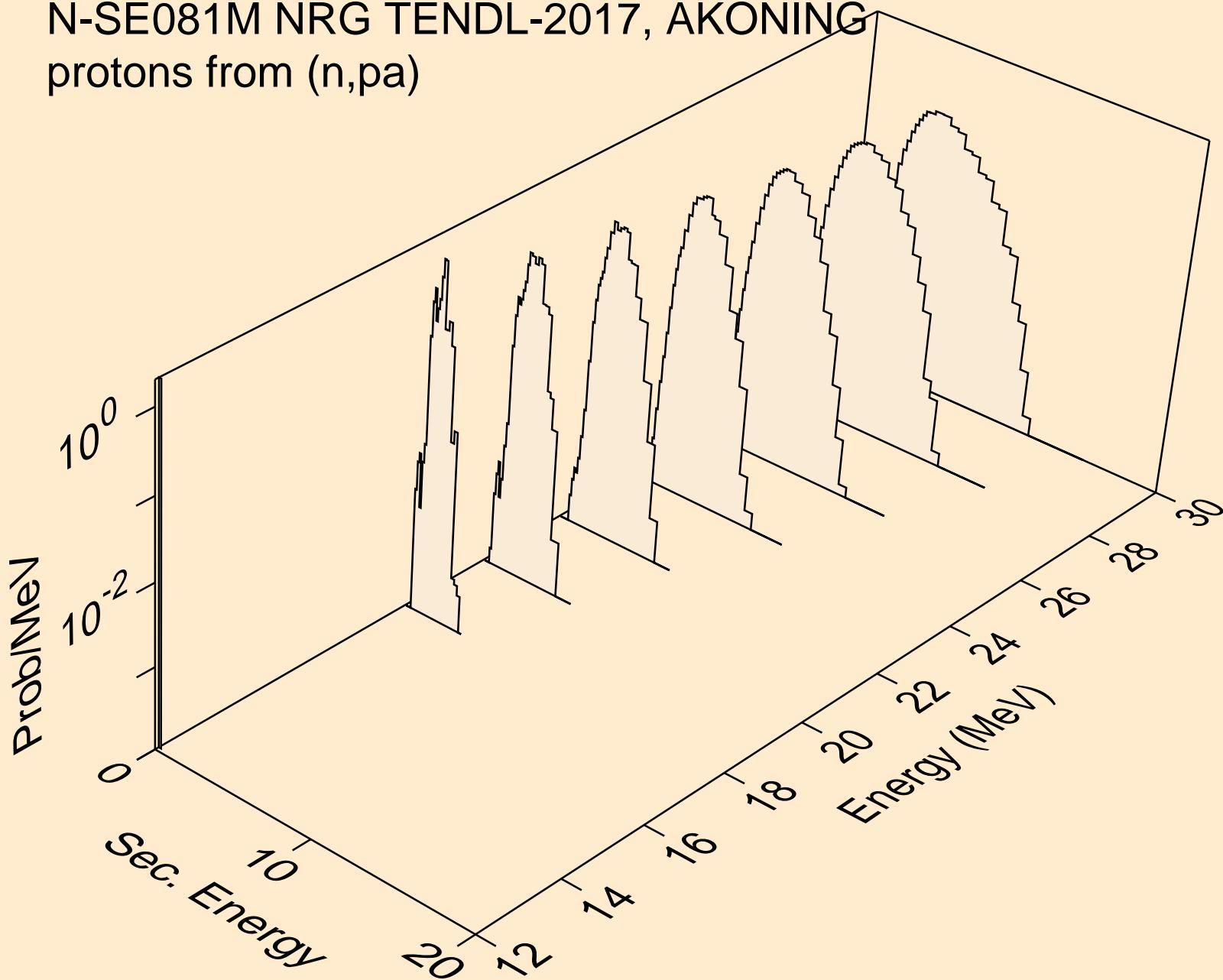
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protons from (n,p)



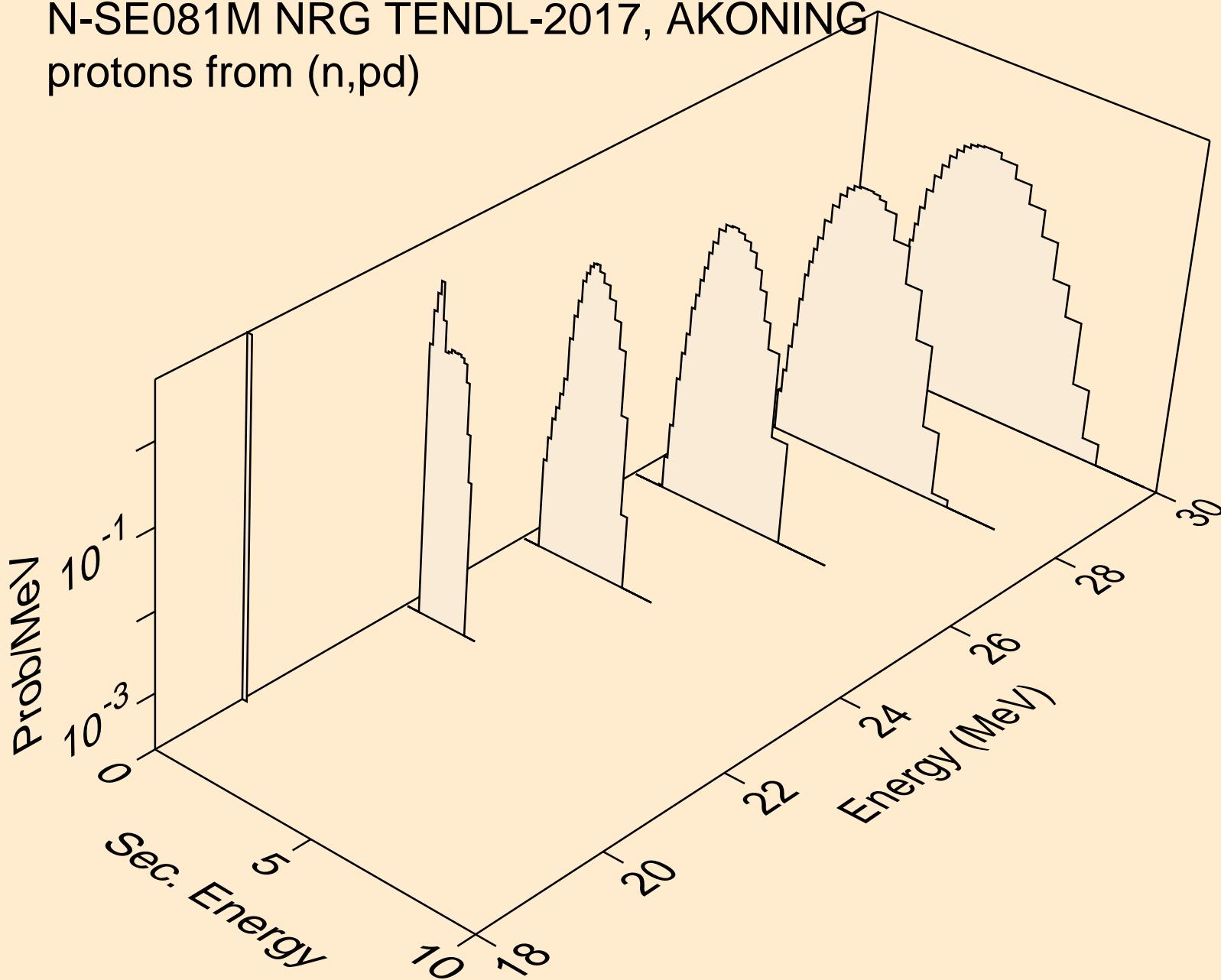
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protons from ( $n,2p$ )



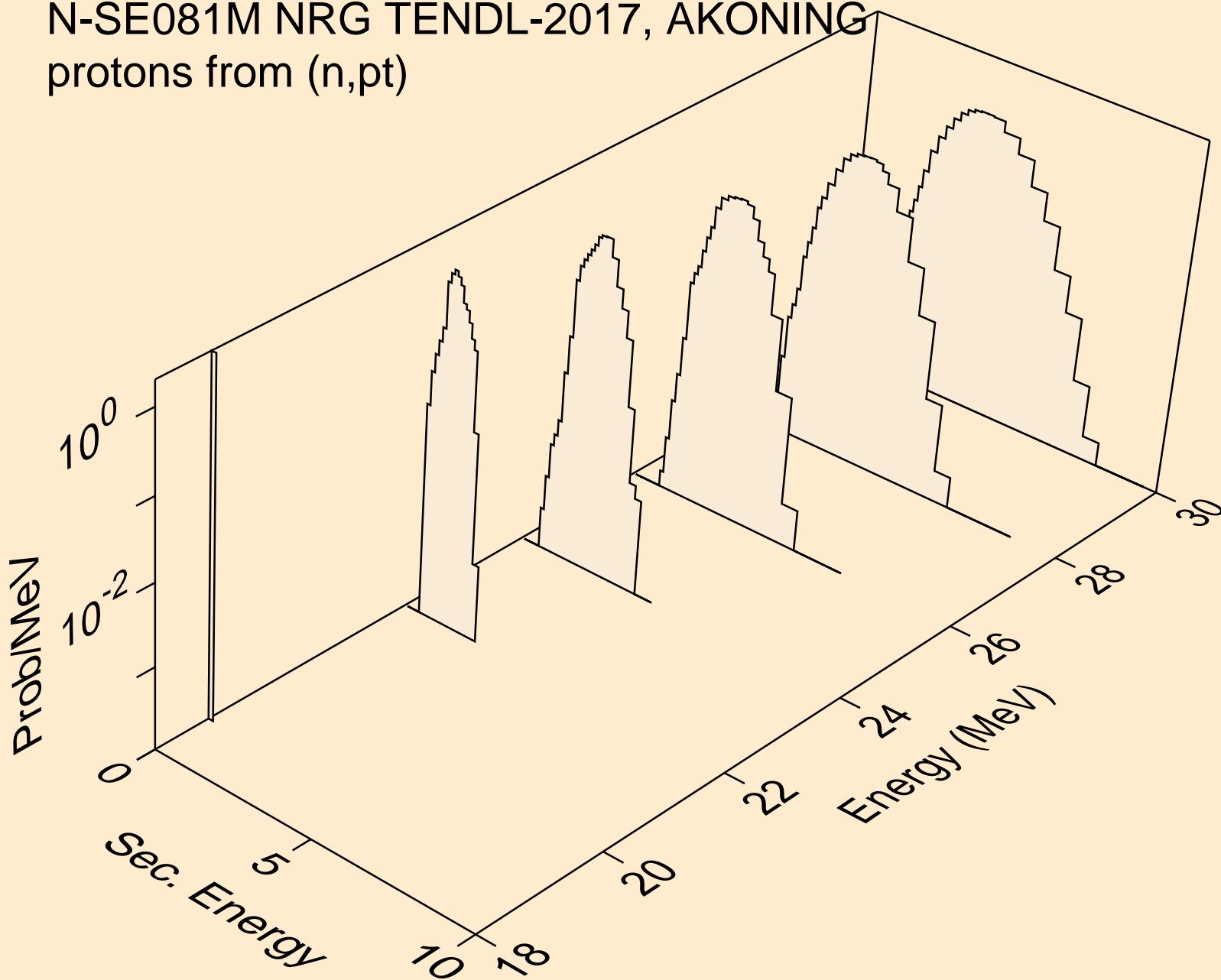
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protons from (n,pa)



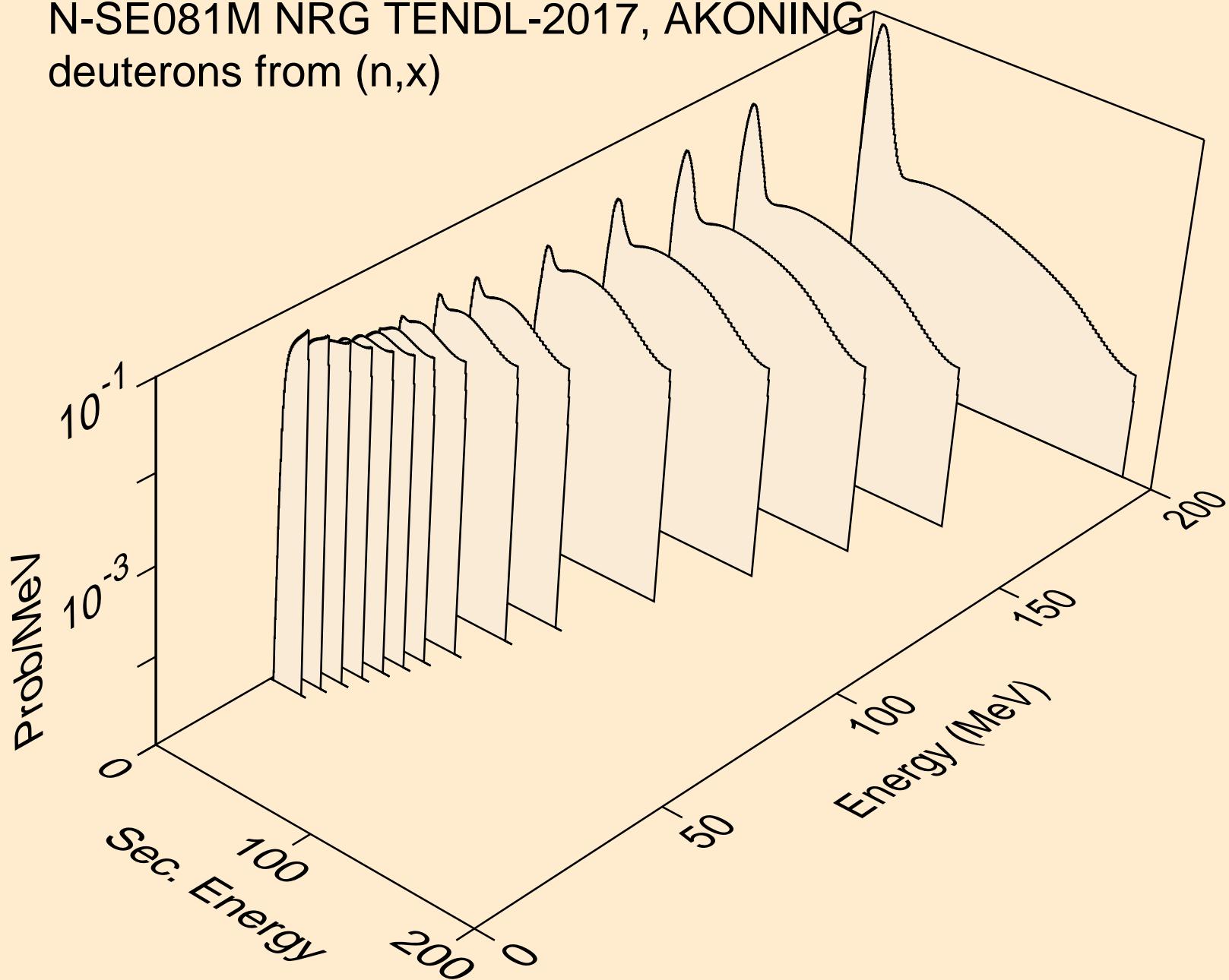
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protons from (n,pd)



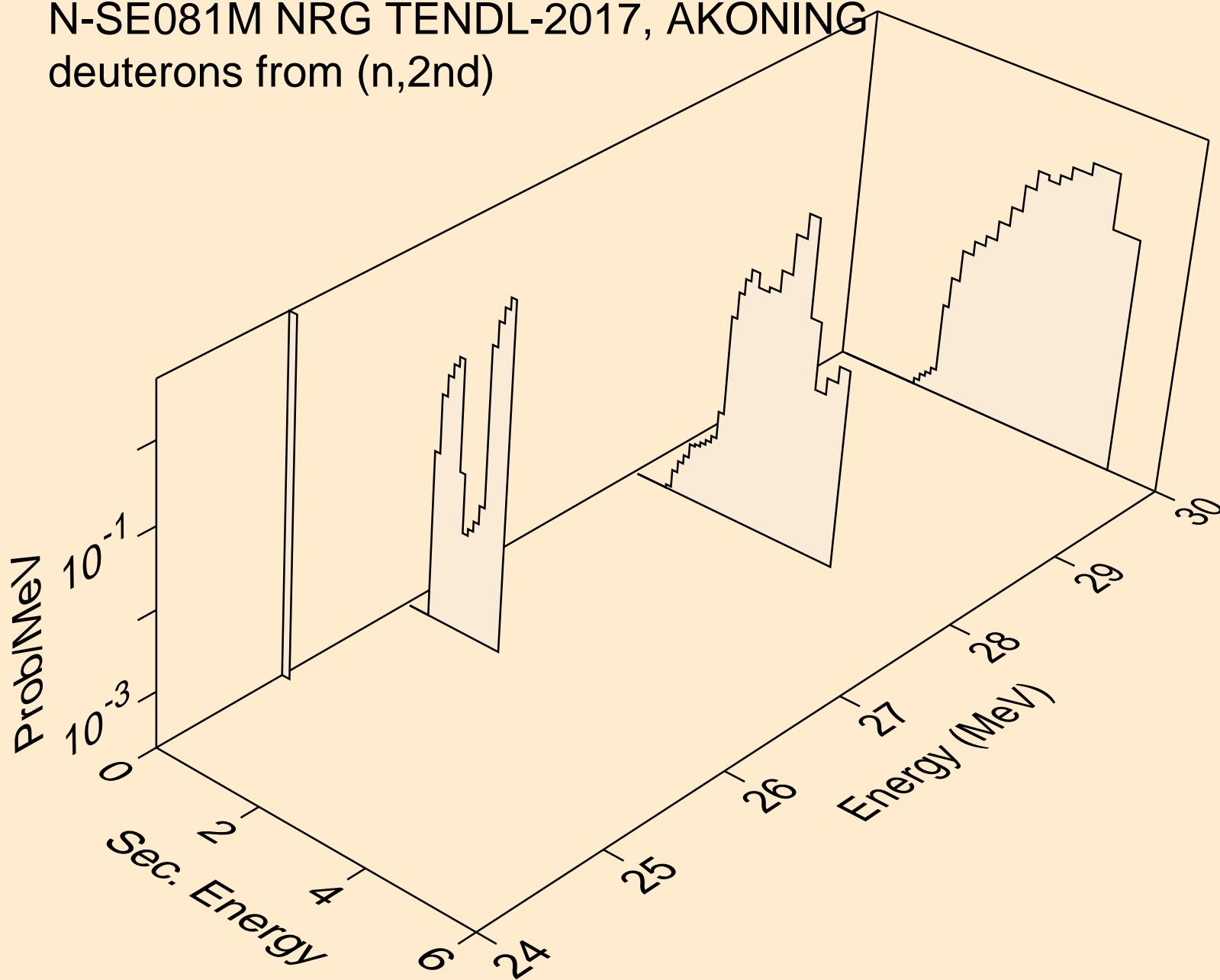
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protons from (n,pt)



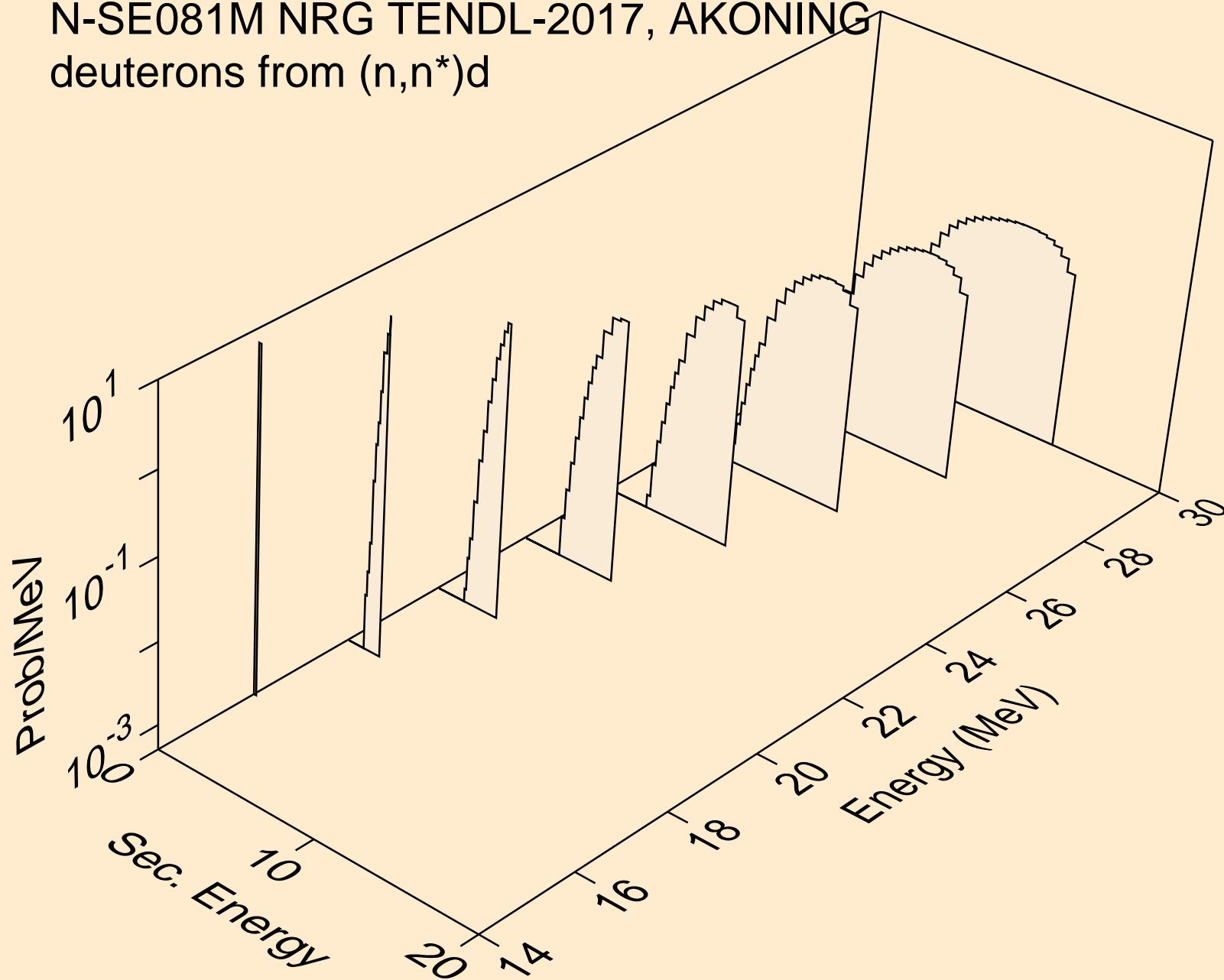
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deuterons from ( $n,x$ )



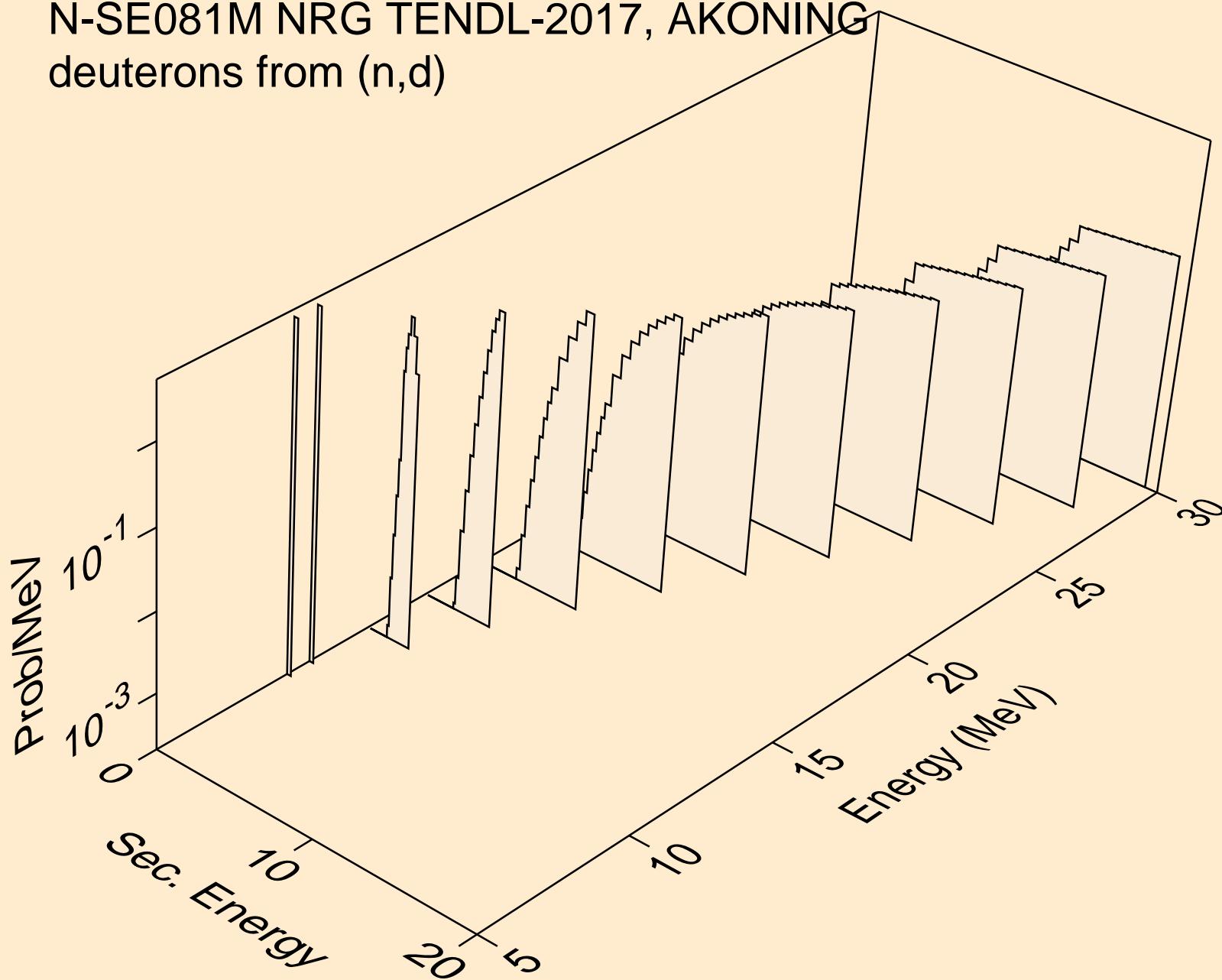
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deuterons from ( $n,2nd$ )



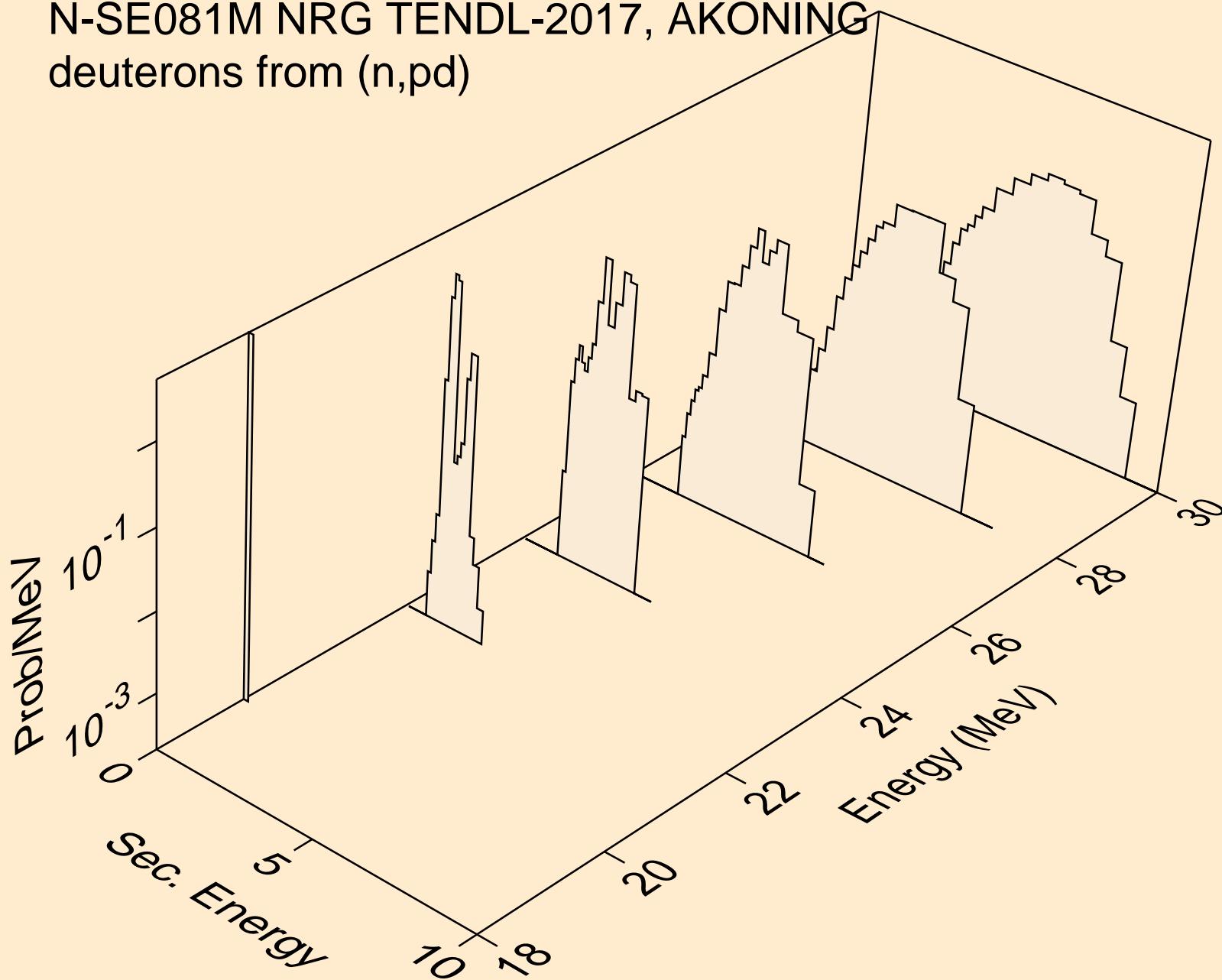
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deuterons from  $(n,n^*)d$



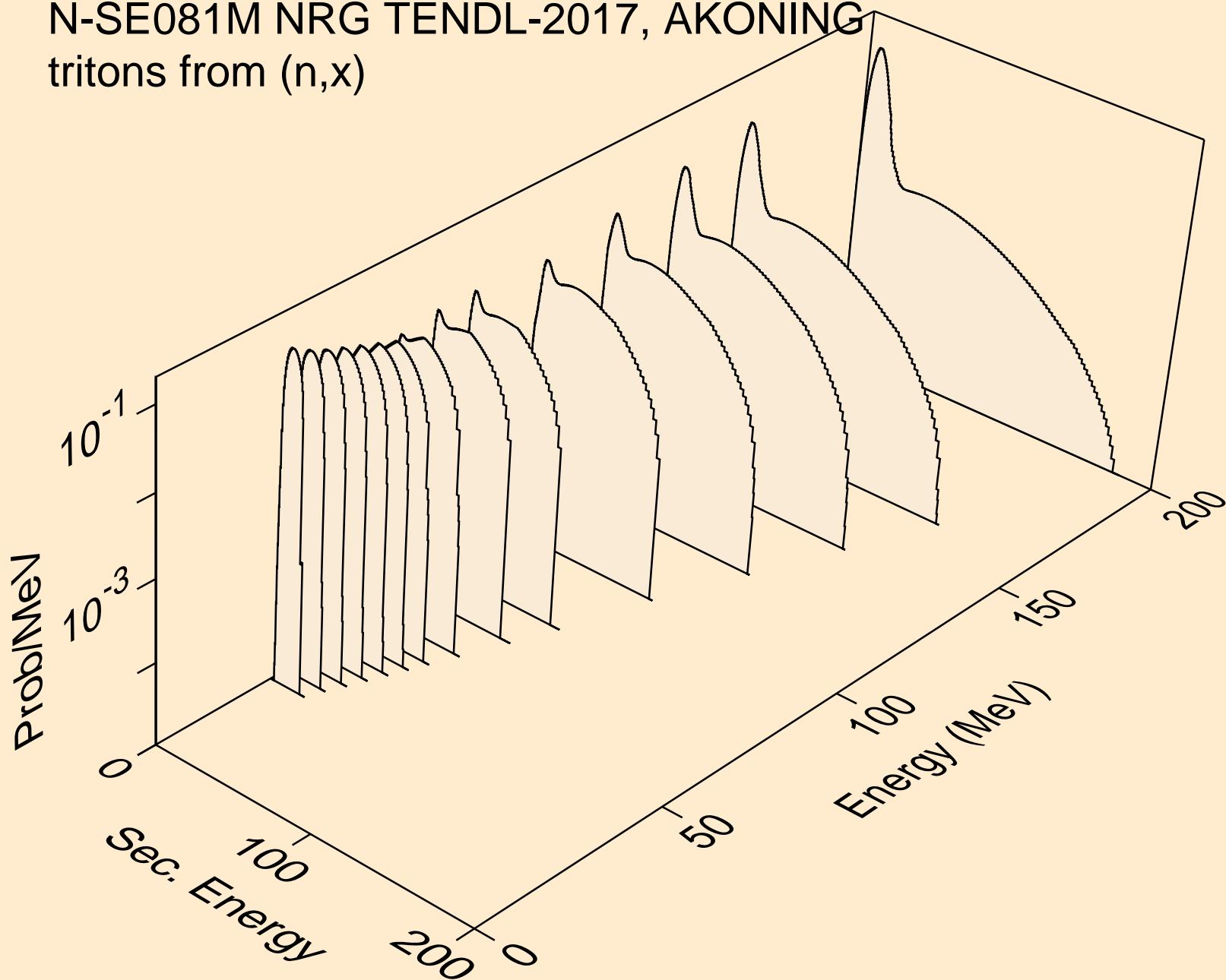
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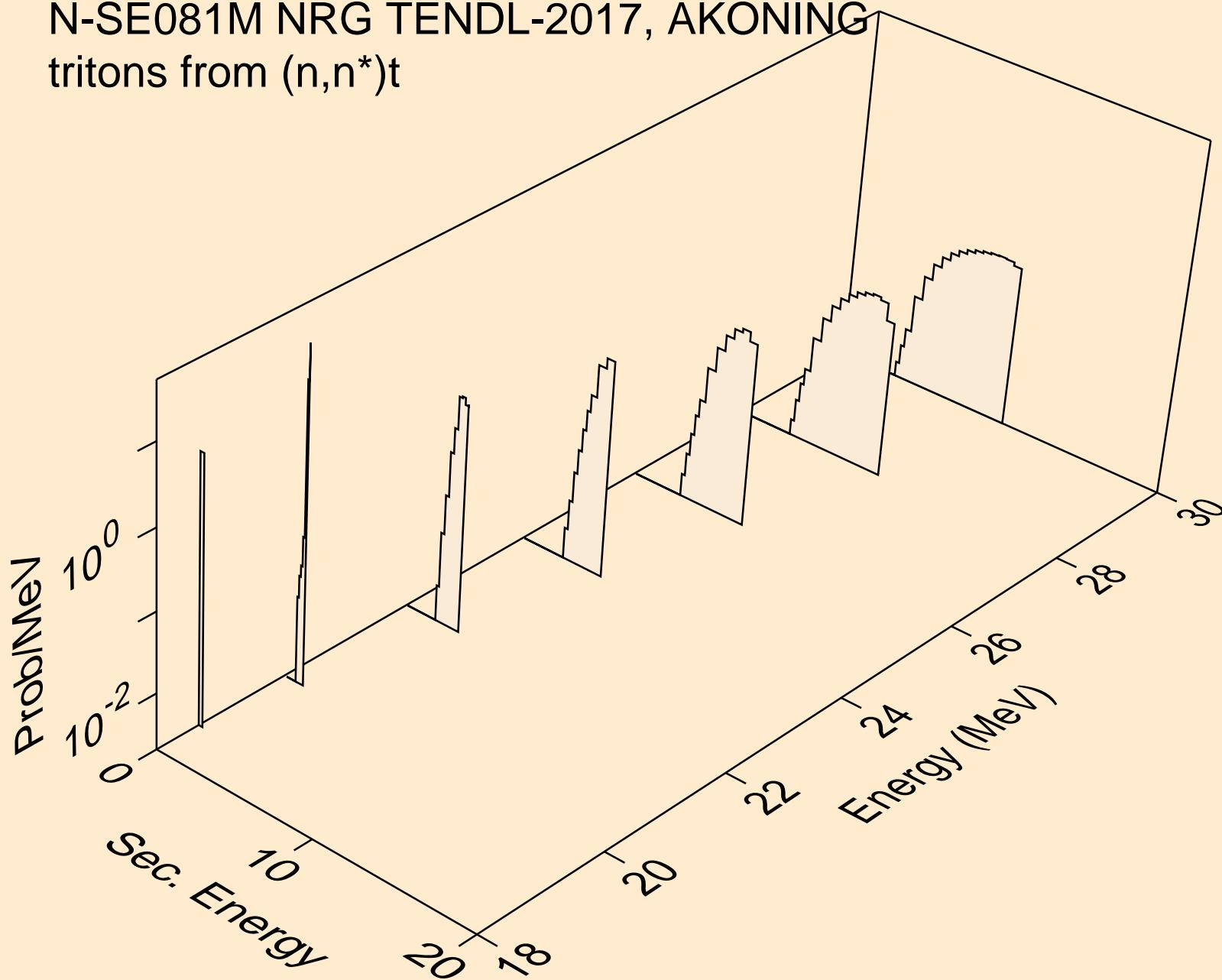
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deuterons from (n,pd)



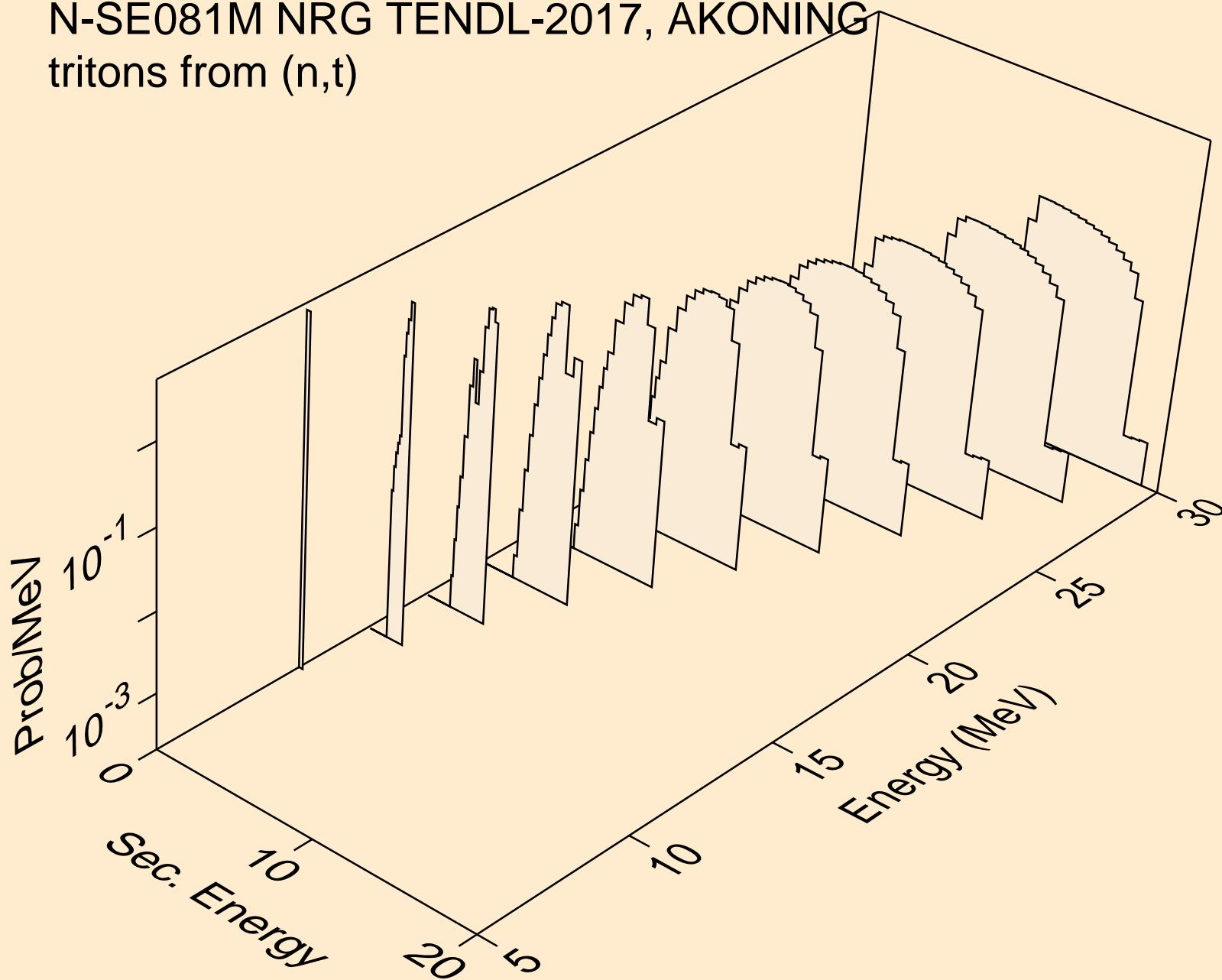
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tritons from ( $n,x$ )



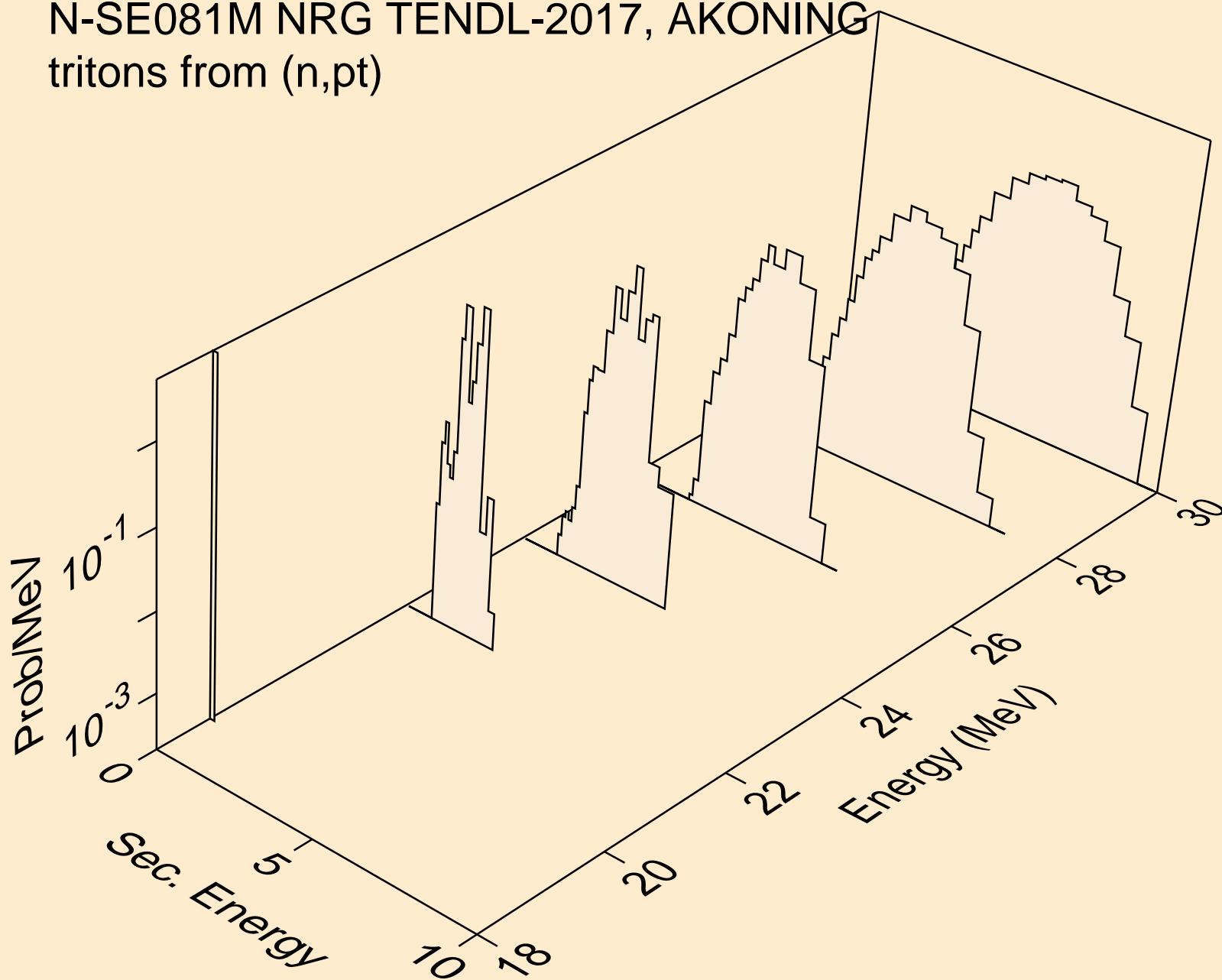
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tritons from  $(n,n^*)t$



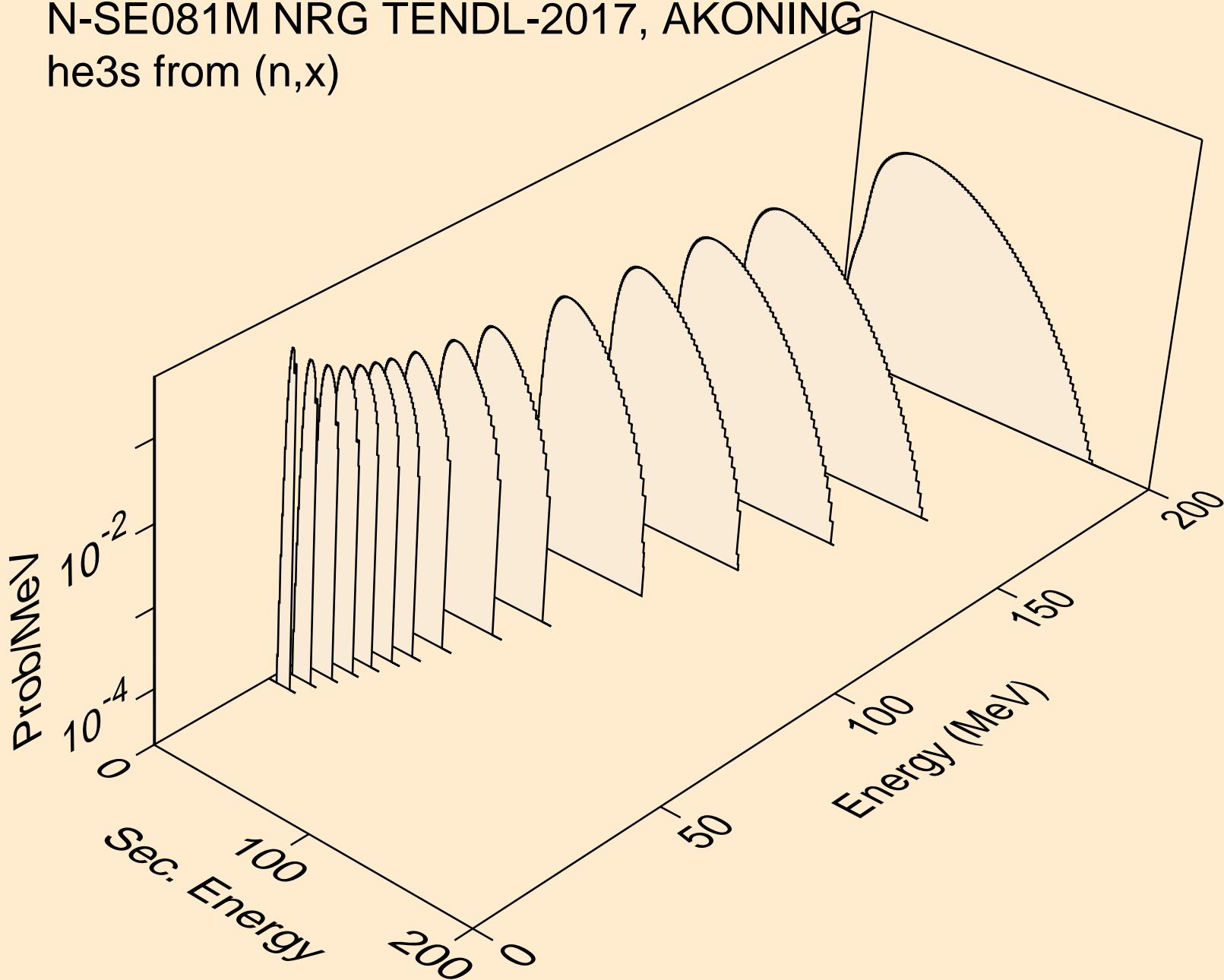
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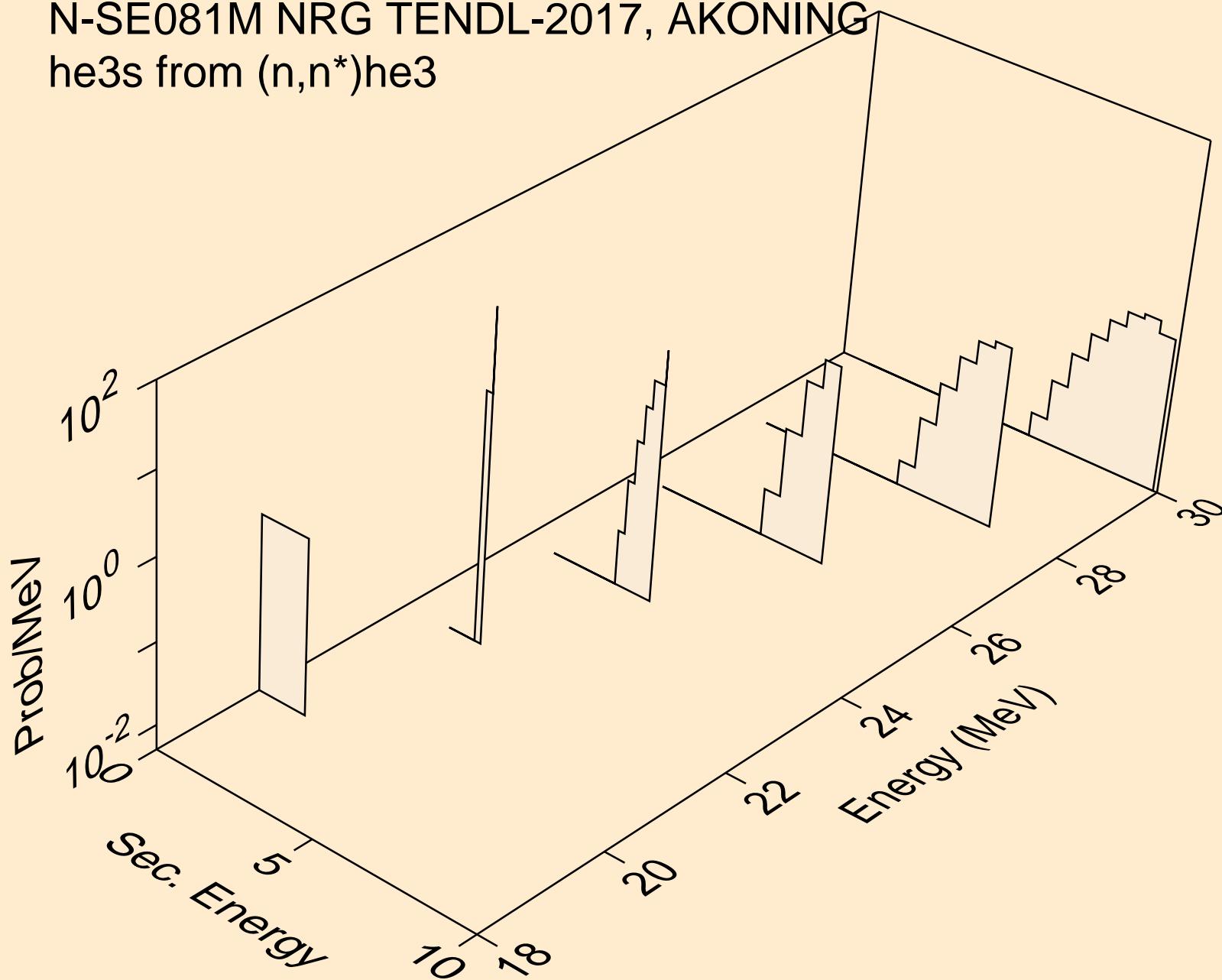
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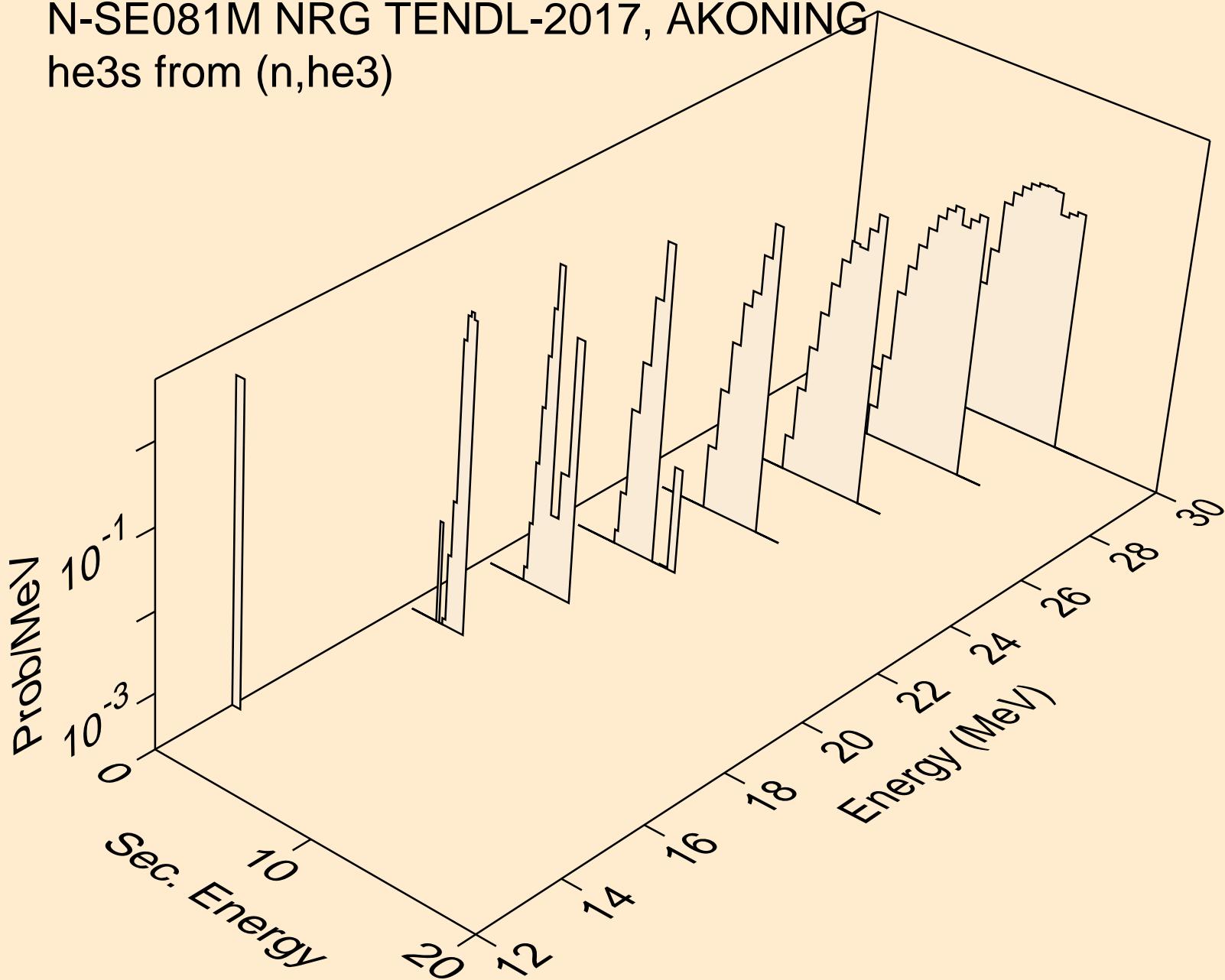
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he3s from (n,x)



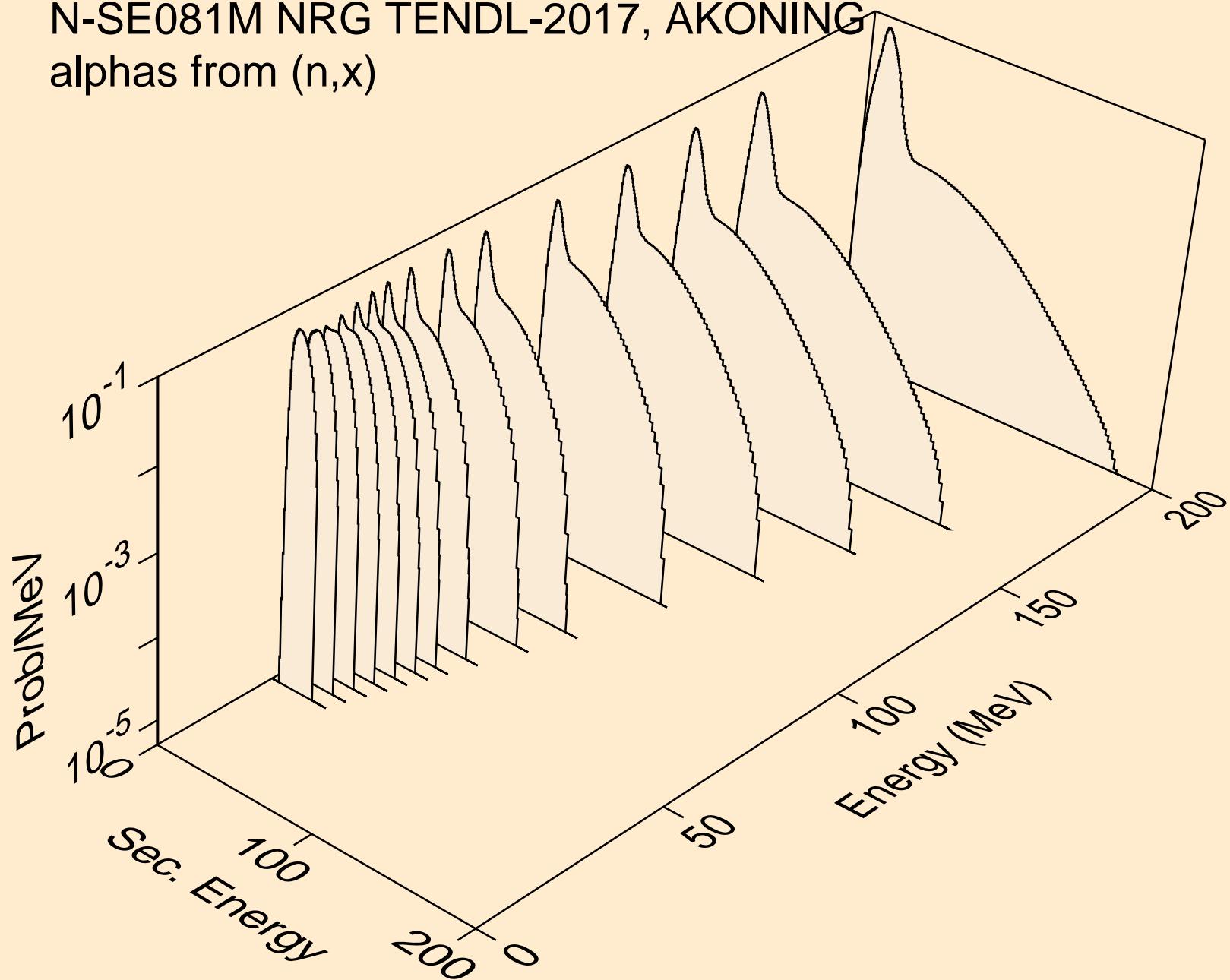
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he3s from  $(n,n^*)\text{he3}$



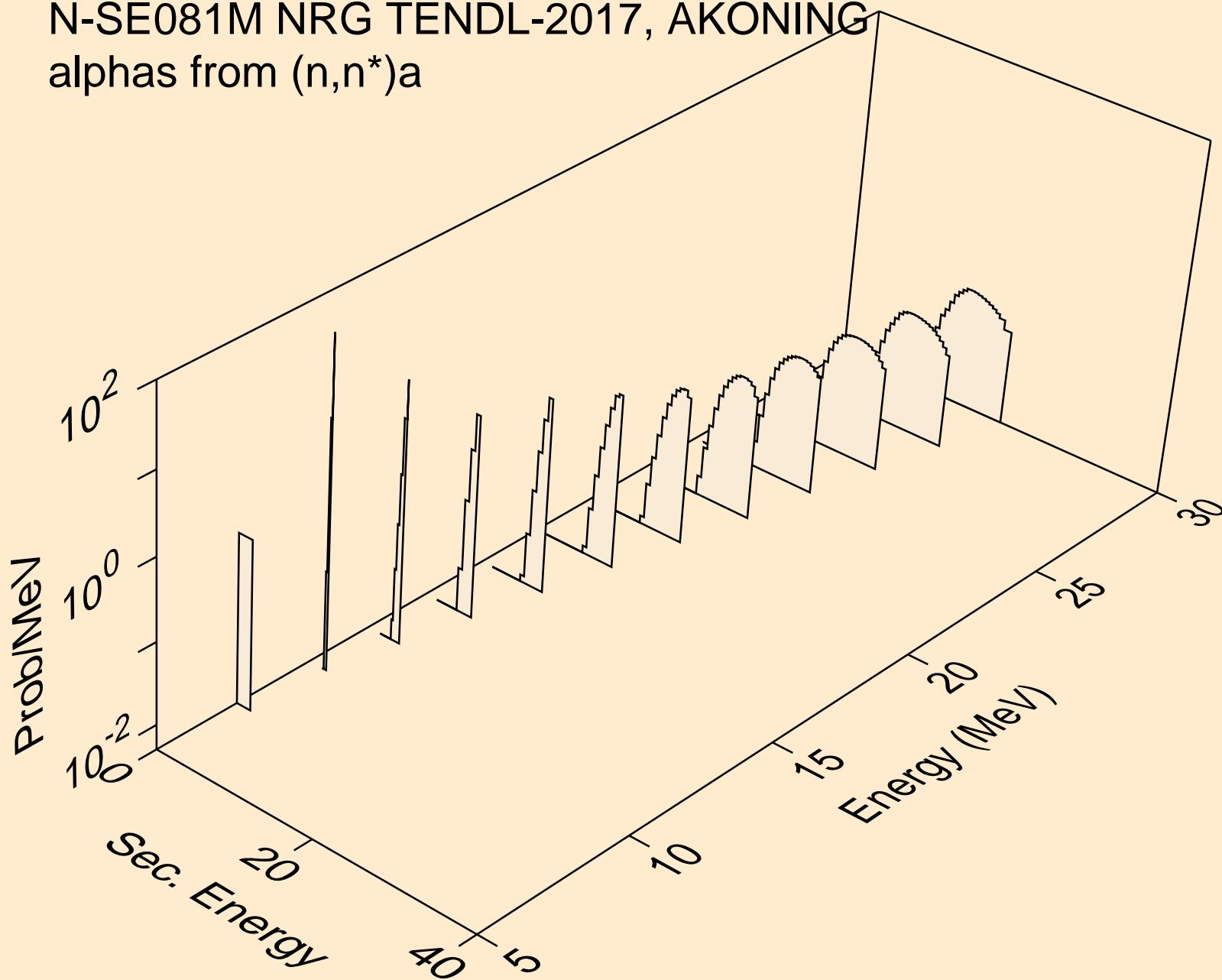
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he3s from (n,he3)



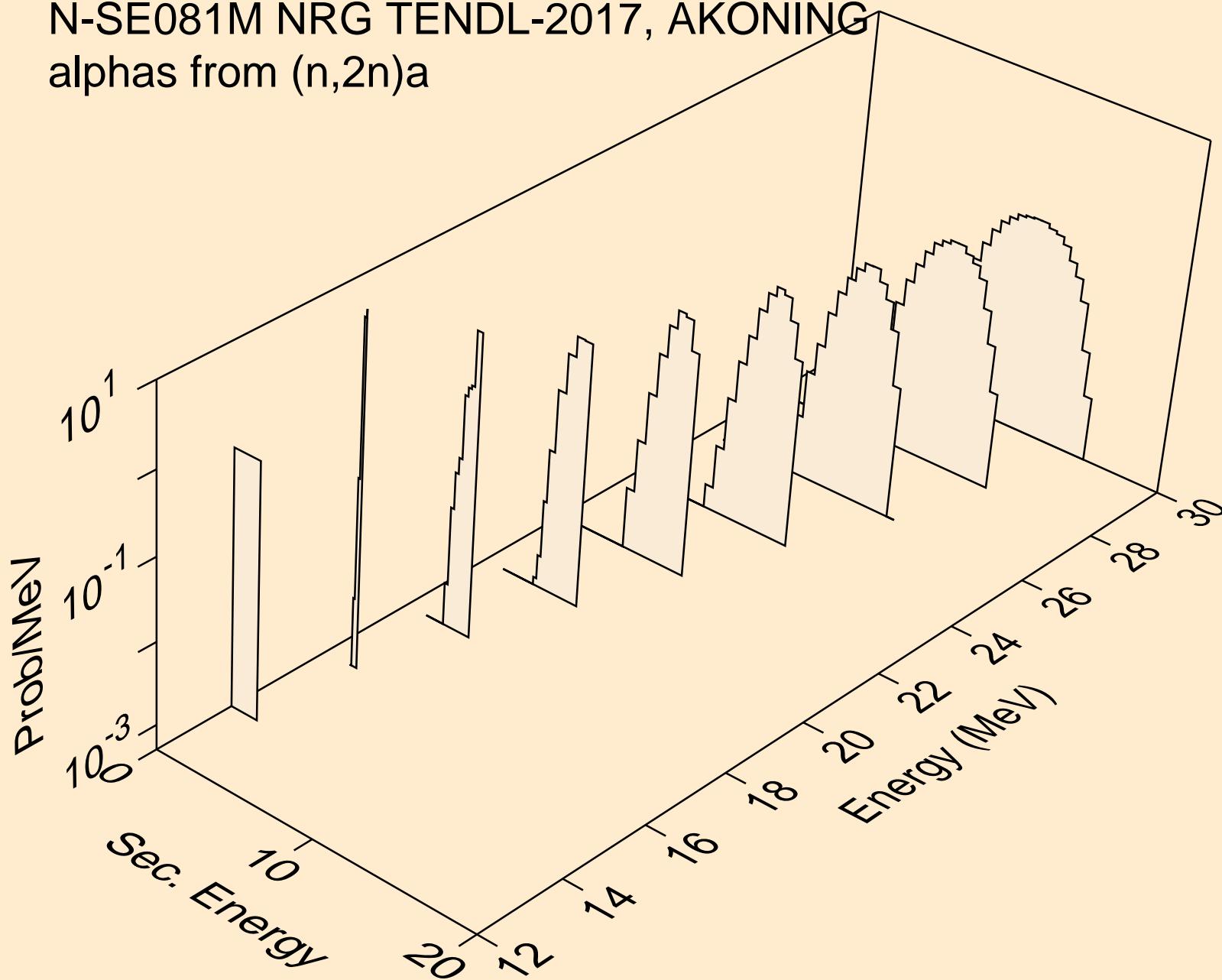
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alphas from (n,x)



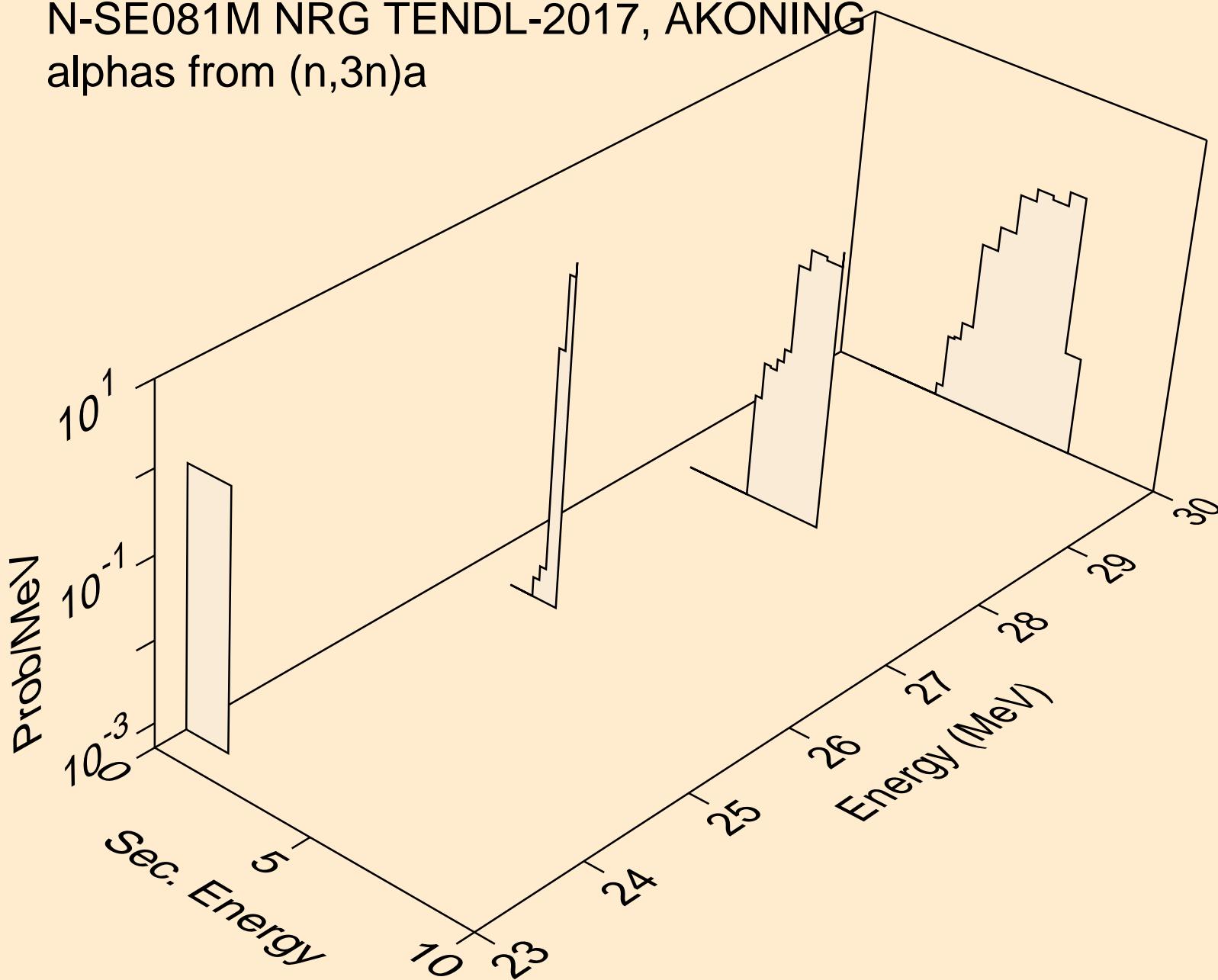
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alphas from  $(n,n^*)a$



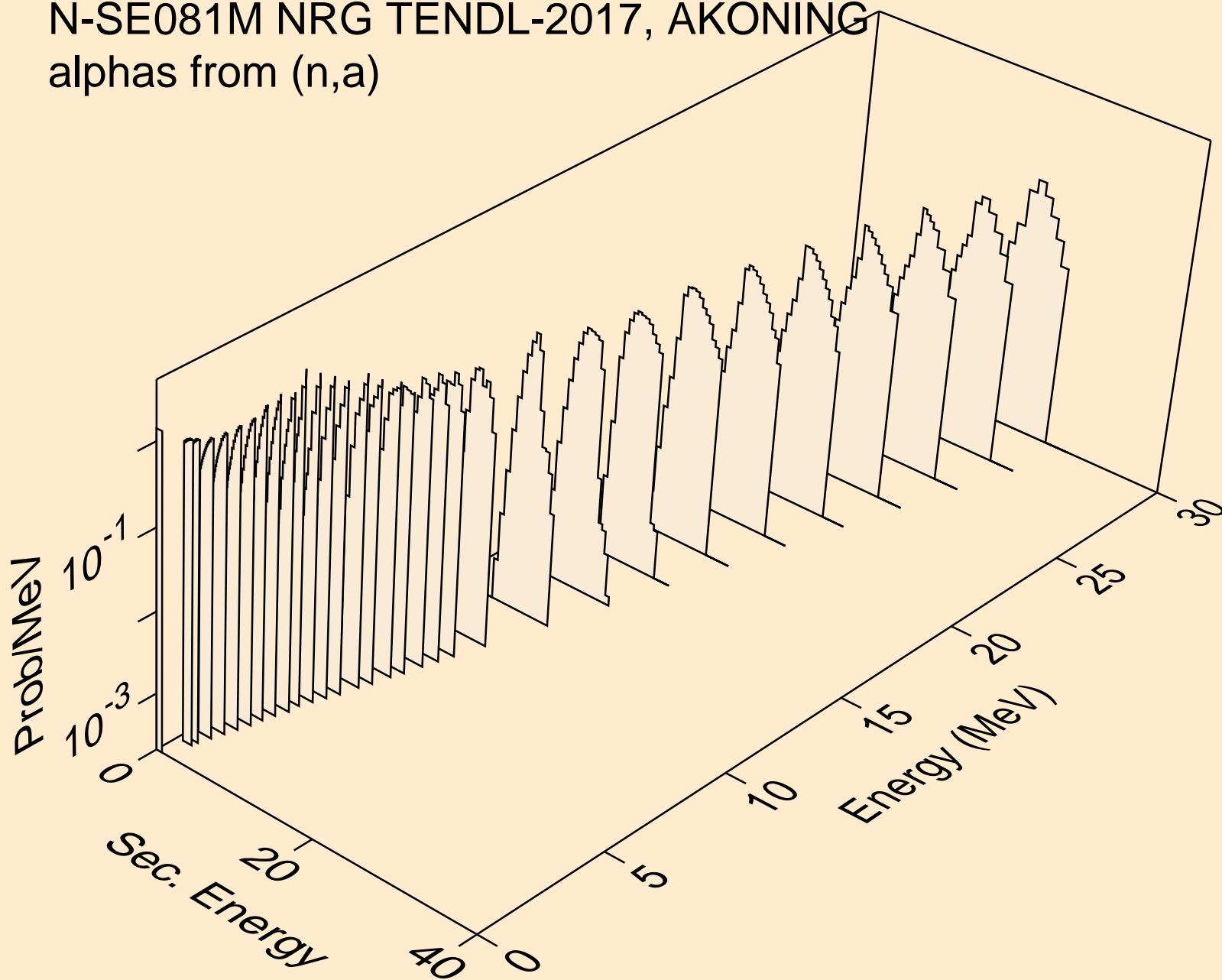
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alphas from ( $n,2n$ )a



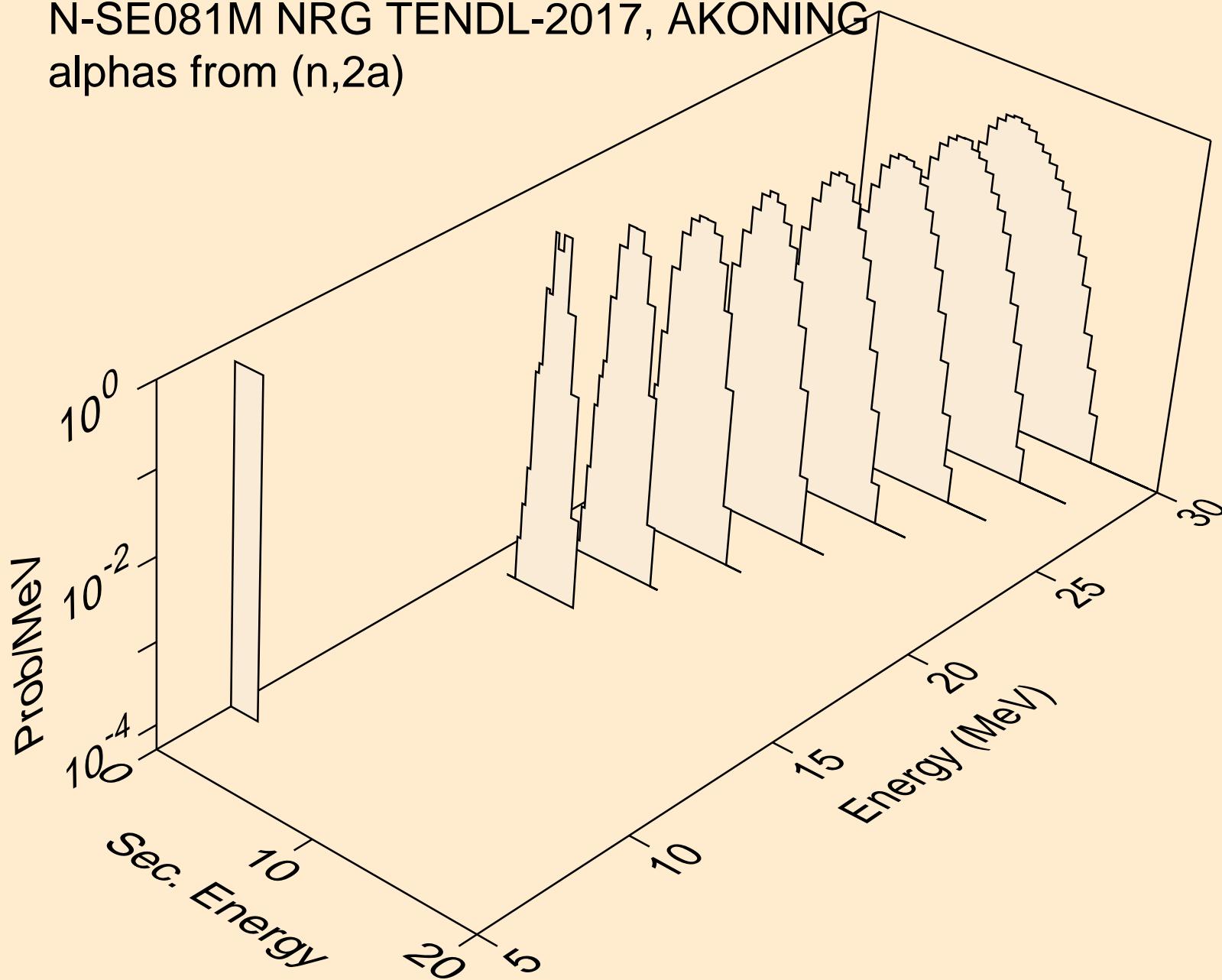
N-SE081M NRG TENDL-2017, AKONING  
alphas from (n,3n)a



N-SE081M NRG TENDL-2017, AKONING  
alphas from (n,a)



N-SE081M NRG TENDL-2017, AKONING  
alphas from (n,2a)



N-SE081M NRG TENDL-2017, AKONING  
alphas from (n,pa)

