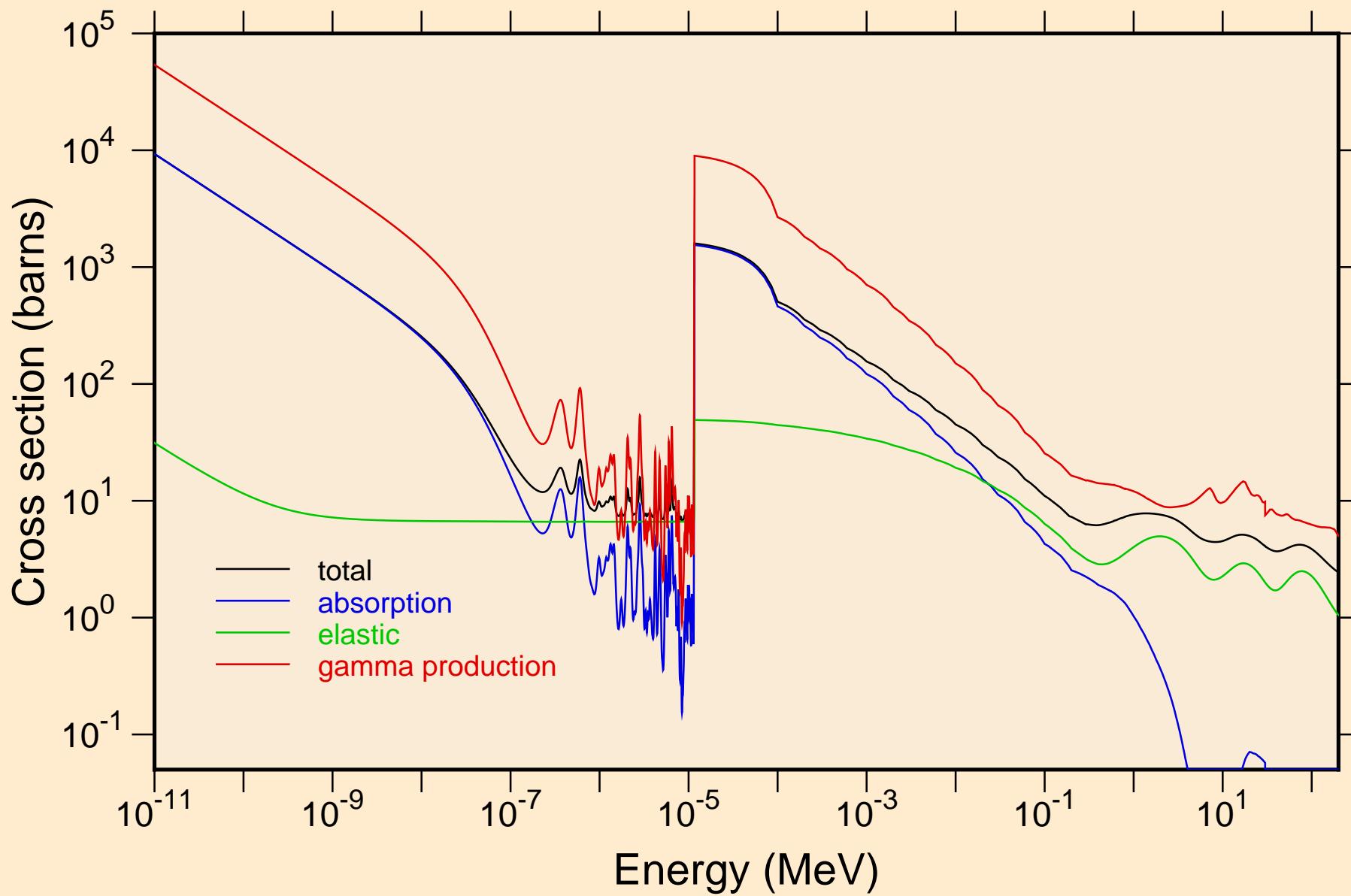
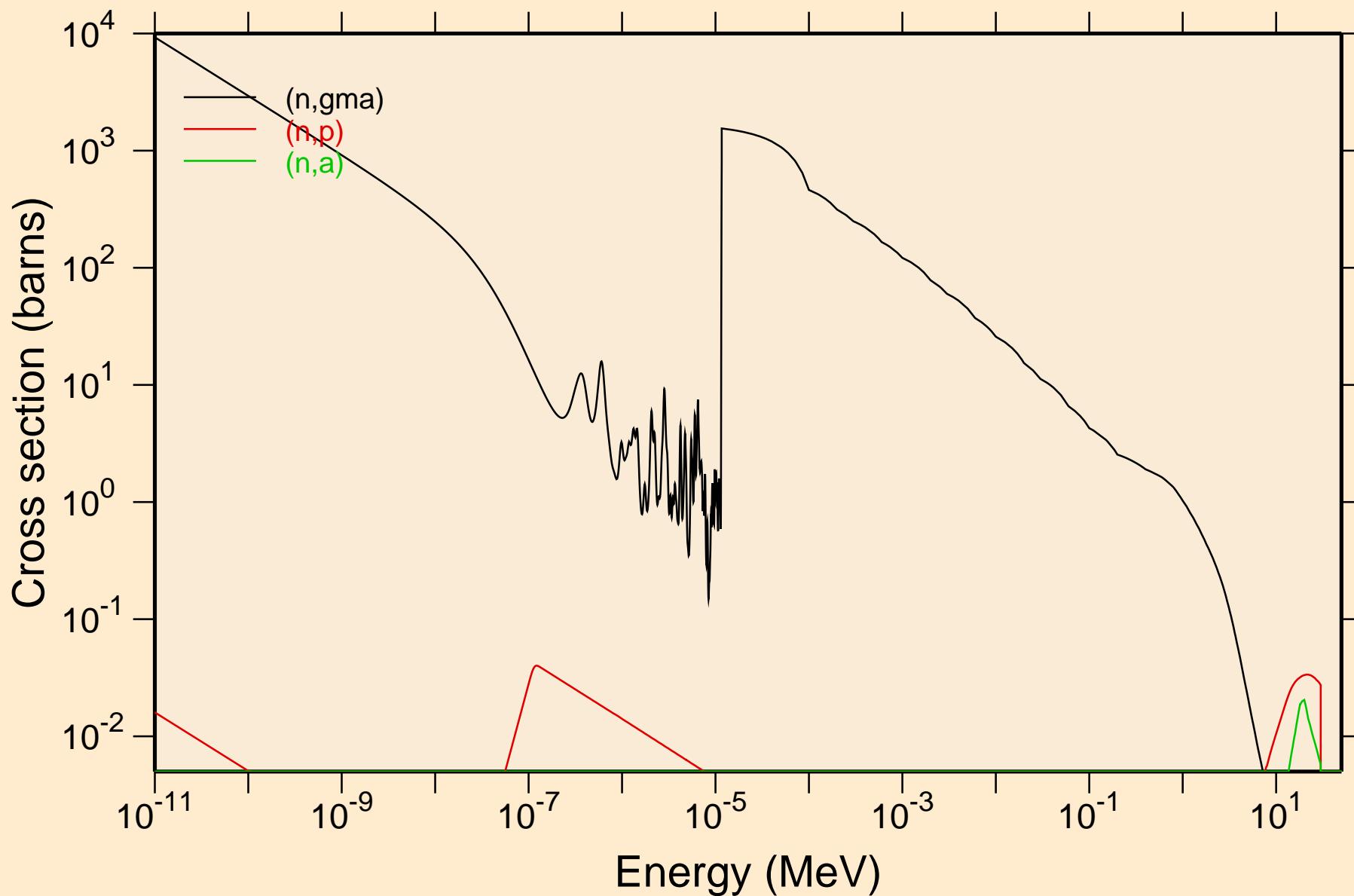


# N-TB156 NRG TENDL-2017, AKONING

## Principal cross sections

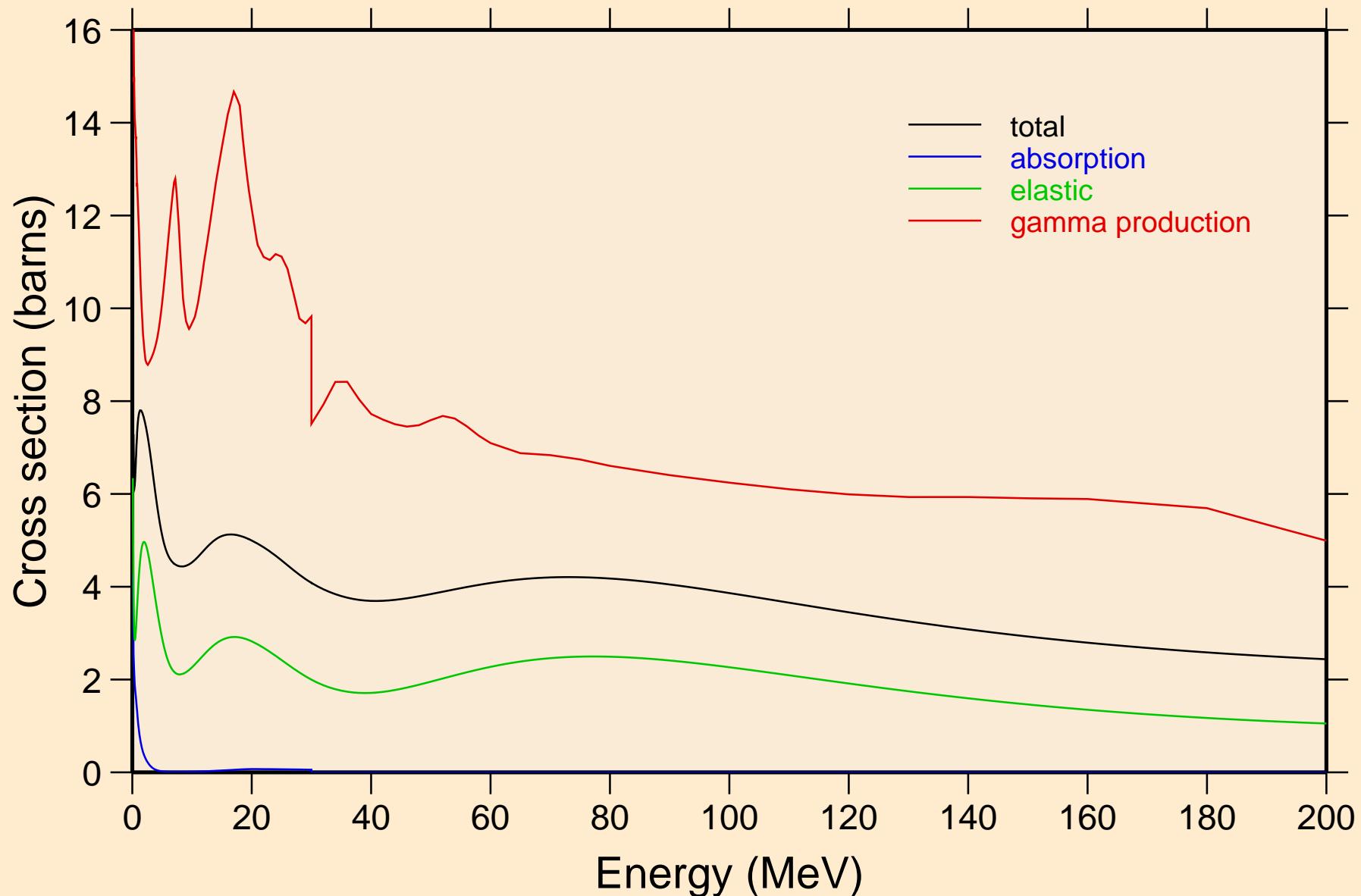


N-TB156 NRG TENDL-2017, AKONING  
Non-threshold reactions

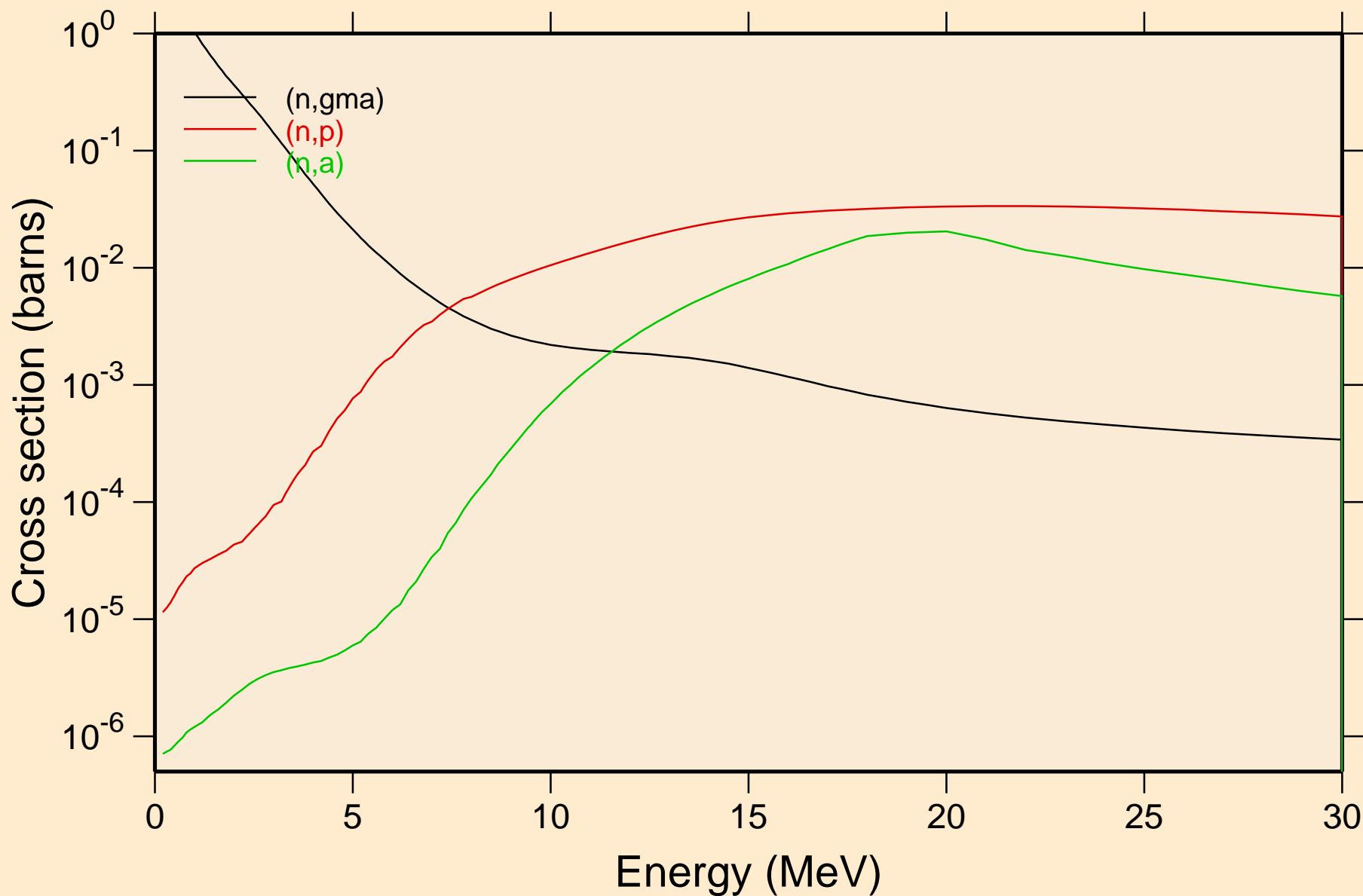


# N-TB156 NRG TENDL-2017, AKONING

## Principal cross sections

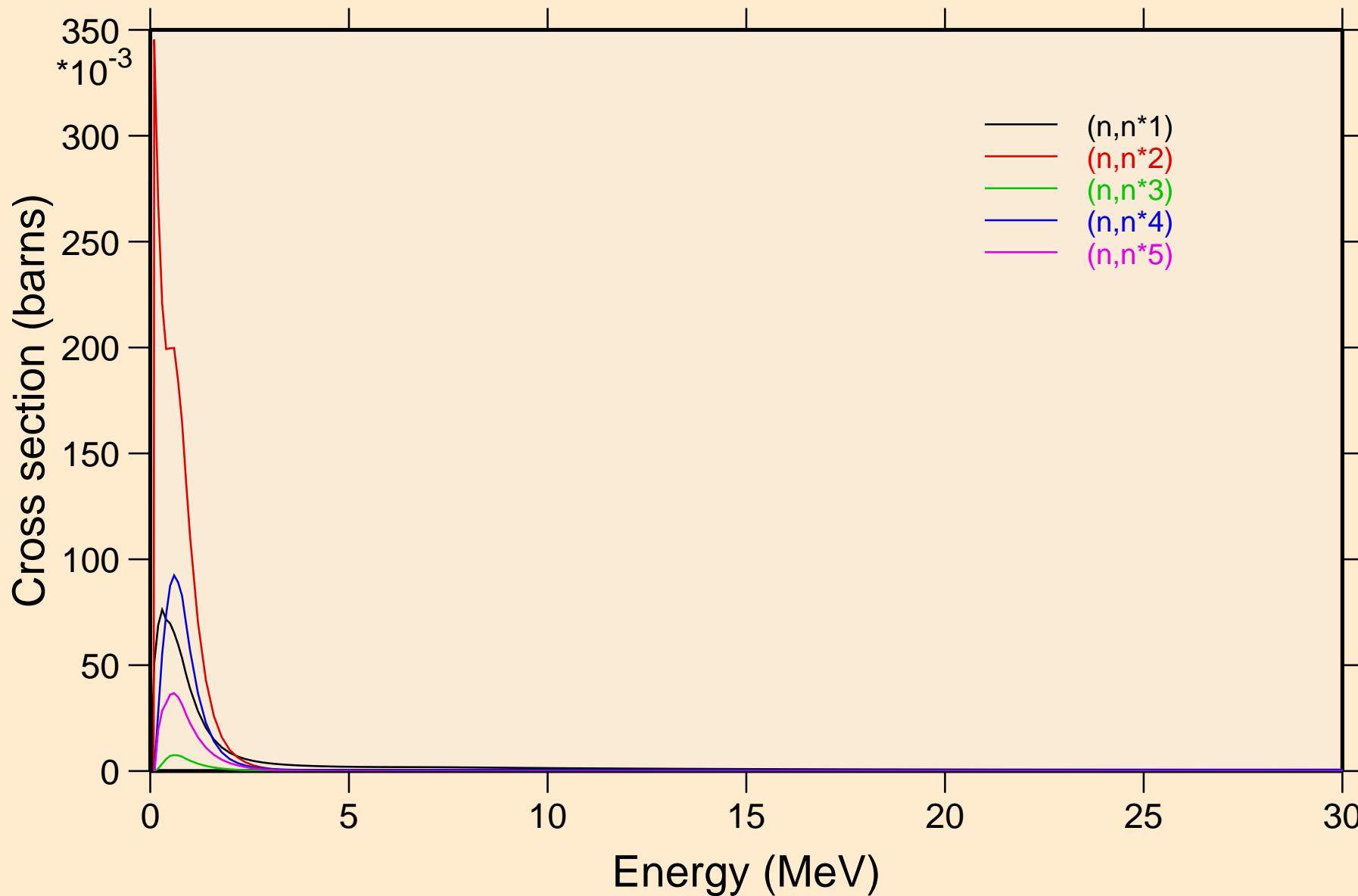


N-TB156 NRG TENDL-2017, AKONING  
Non-threshold reactions



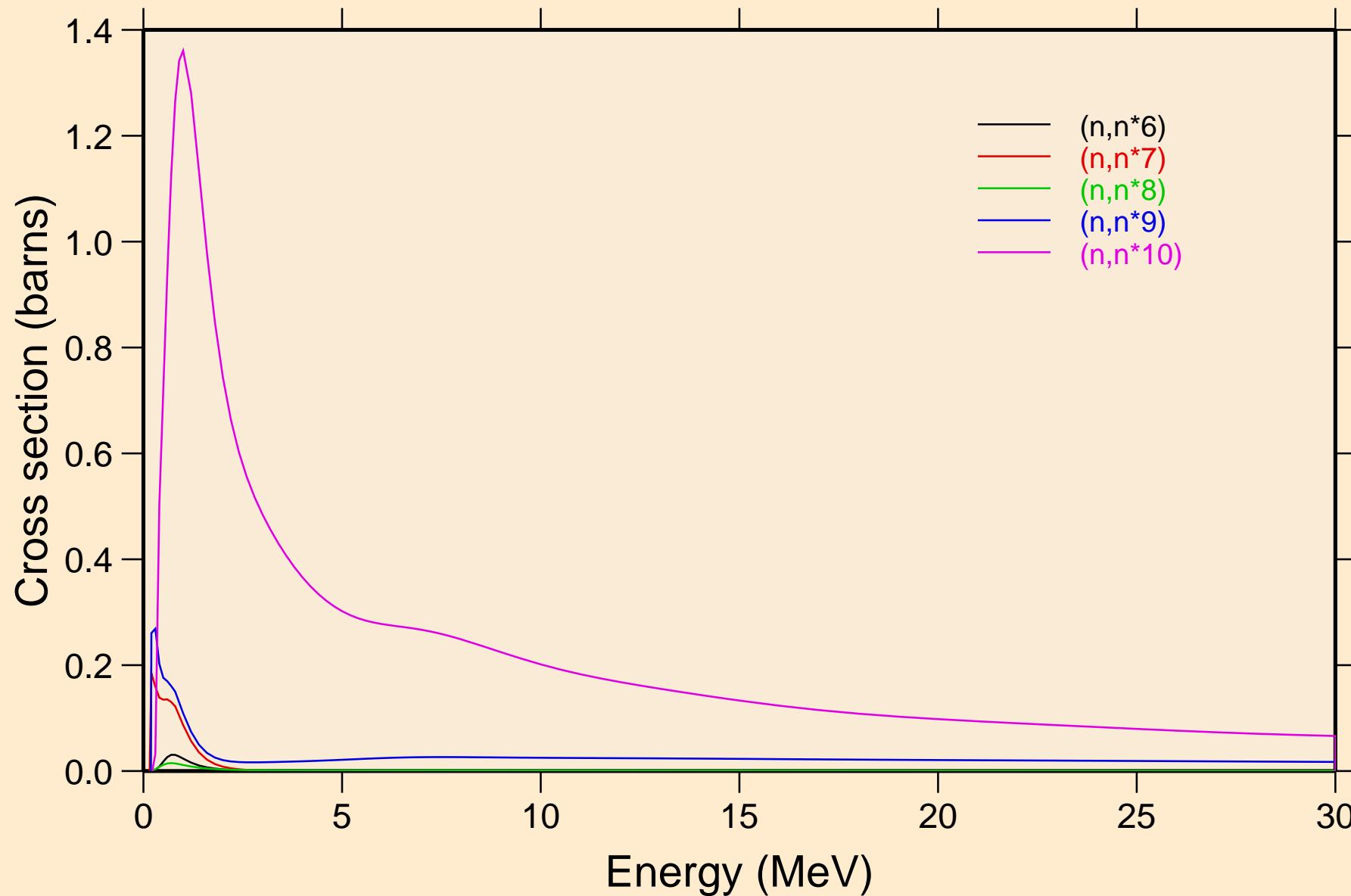
# N-TB156 NRG TENDL-2017, AKONING

## Inelastic levels



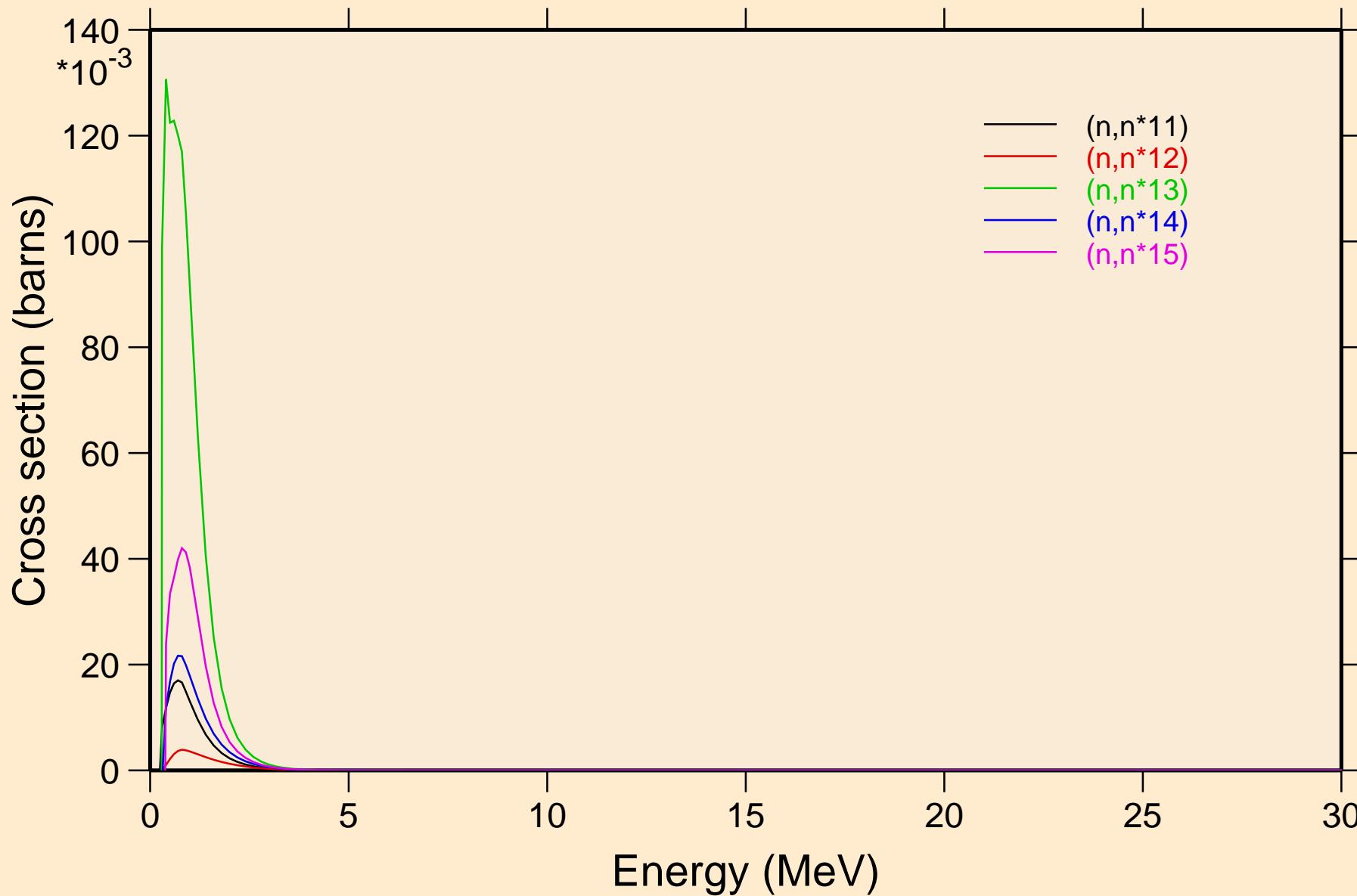
# N-TB156 NRG TENDL-2017, AKONING

## Inelastic levels



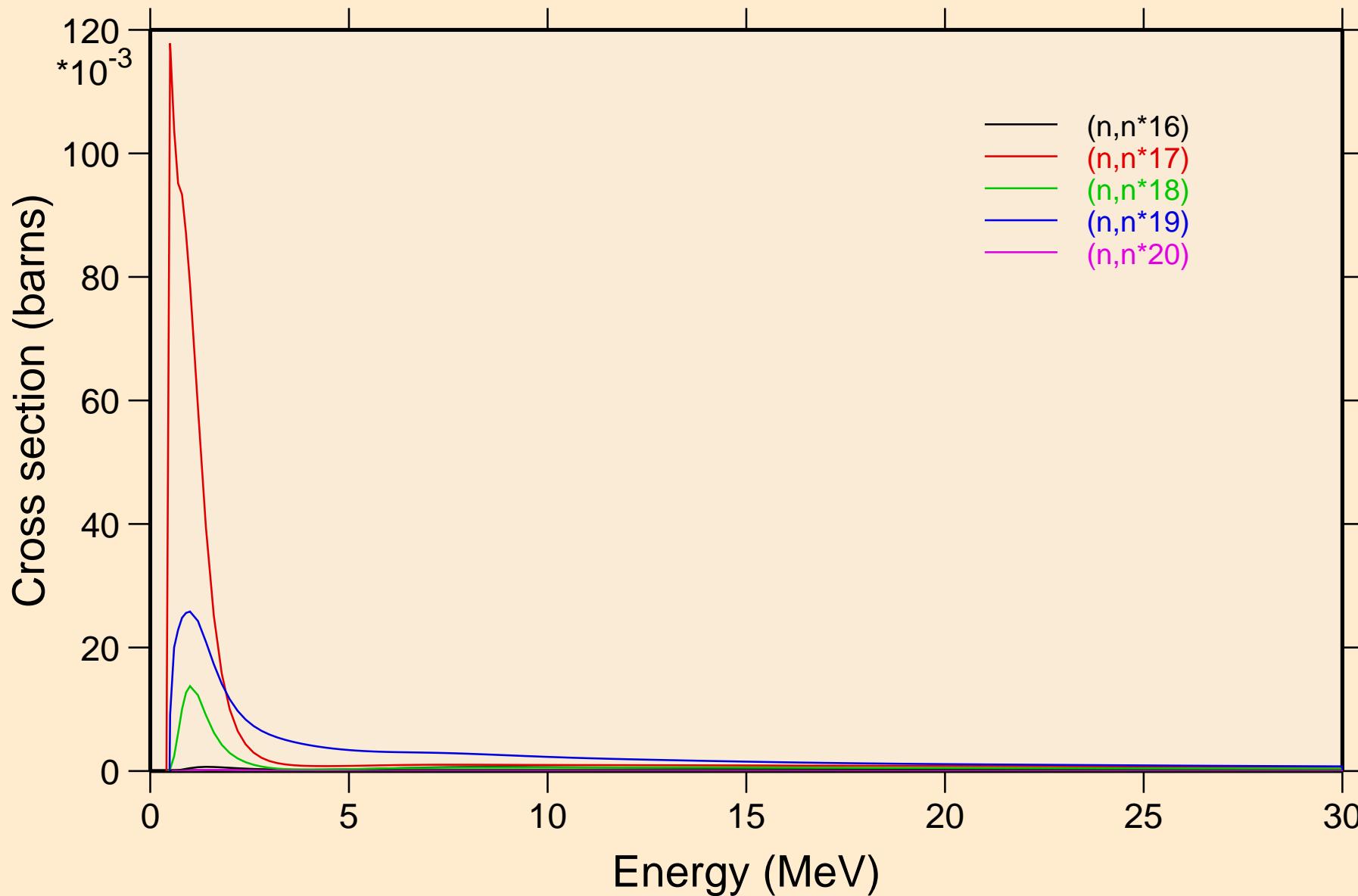
# N-TB156 NRG TENDL-2017, AKONING

## Inelastic levels



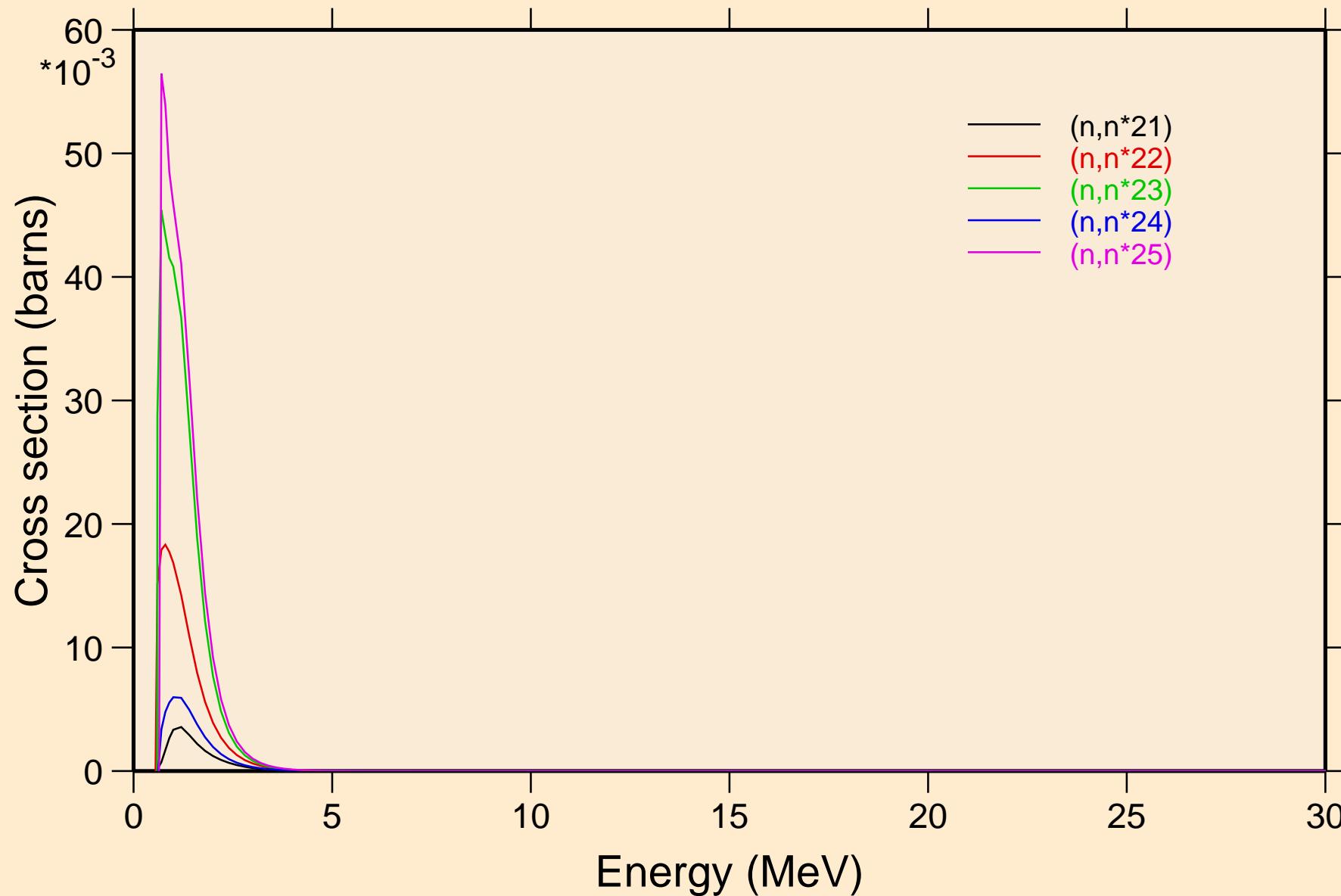
# N-TB156 NRG TENDL-2017, AKONING

## Inelastic levels



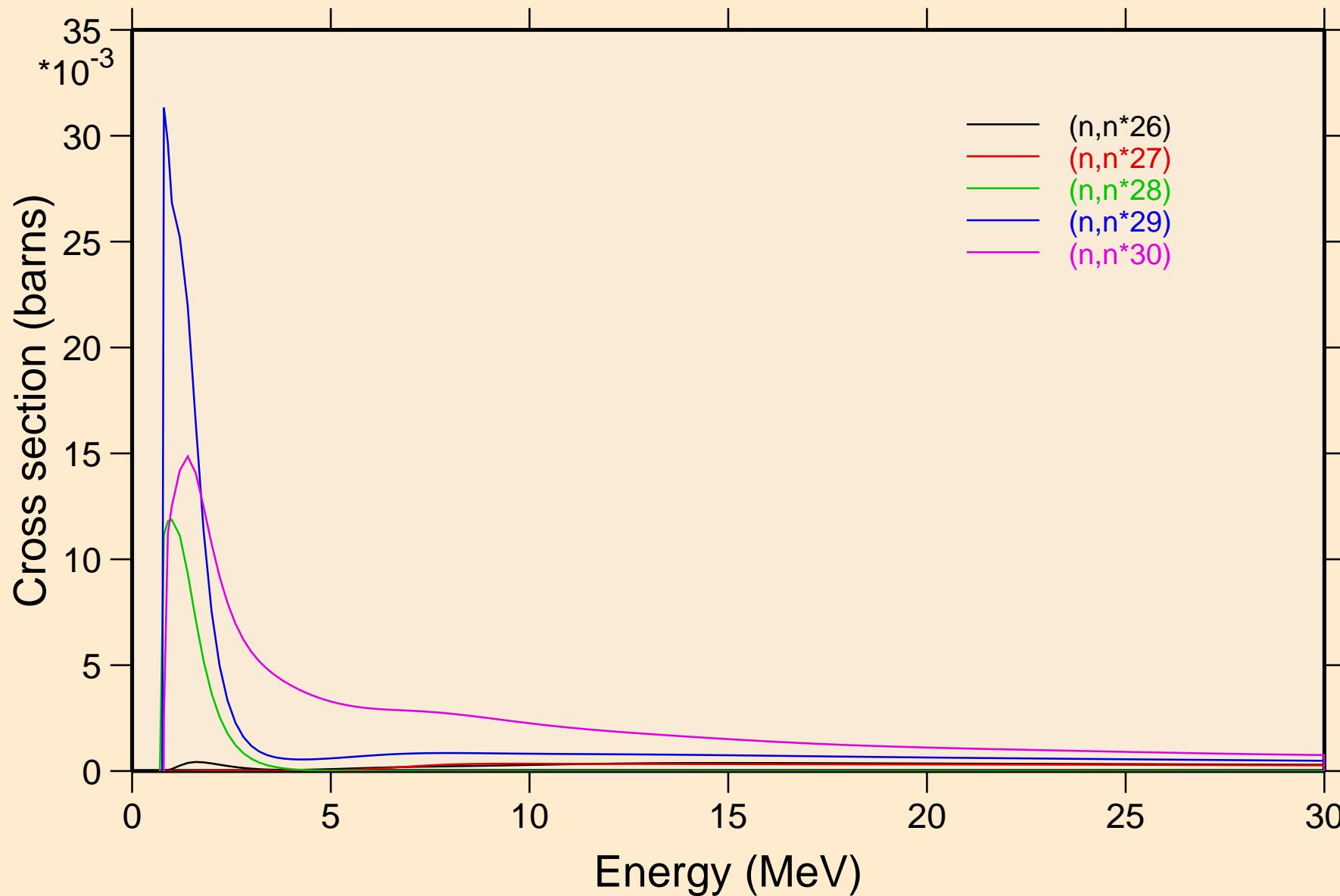
# N-TB156 NRG TENDL-2017, AKONING

## Inelastic levels



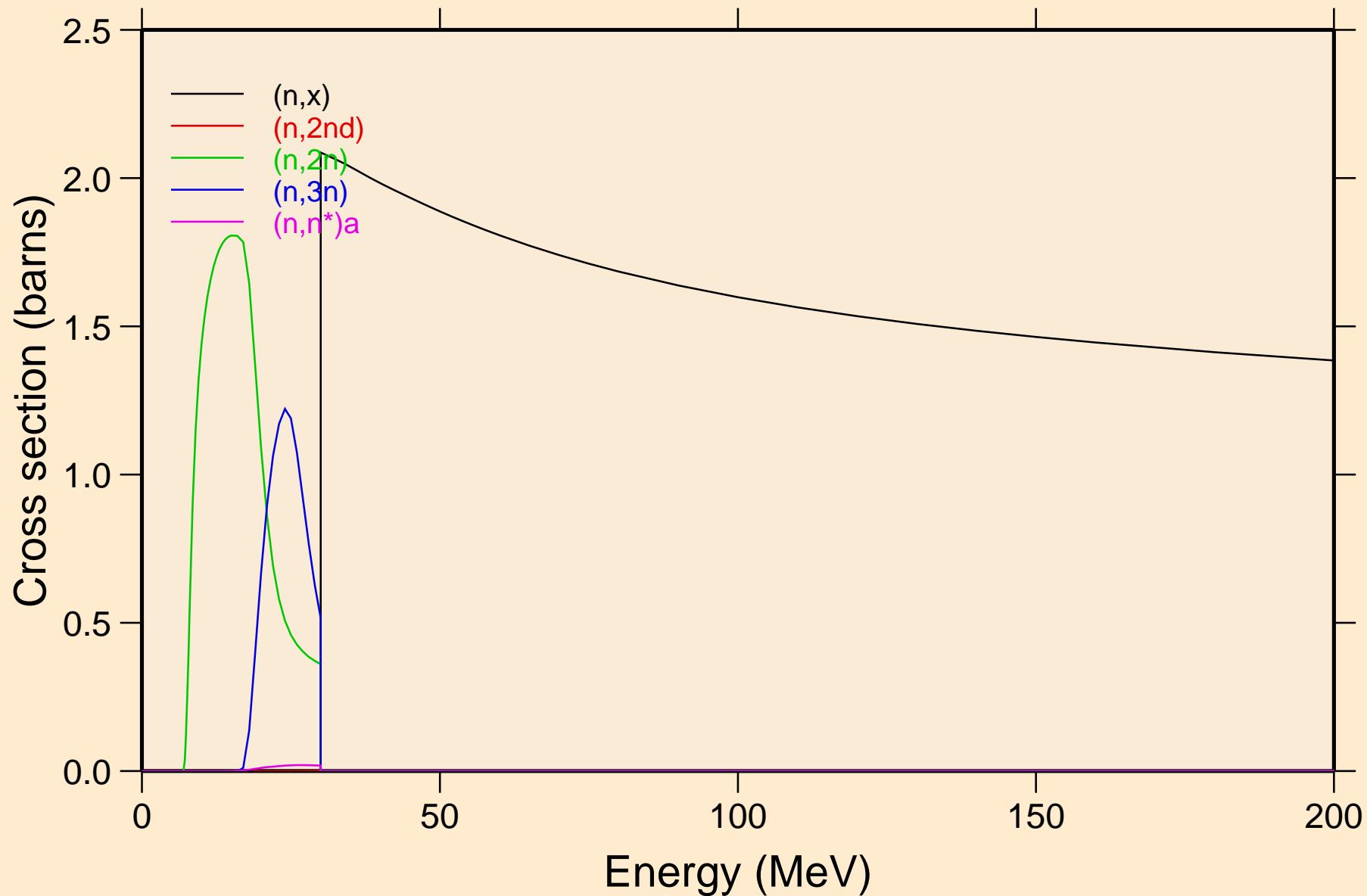
# N-TB156 NRG TENDL-2017, AKONING

## Inelastic levels



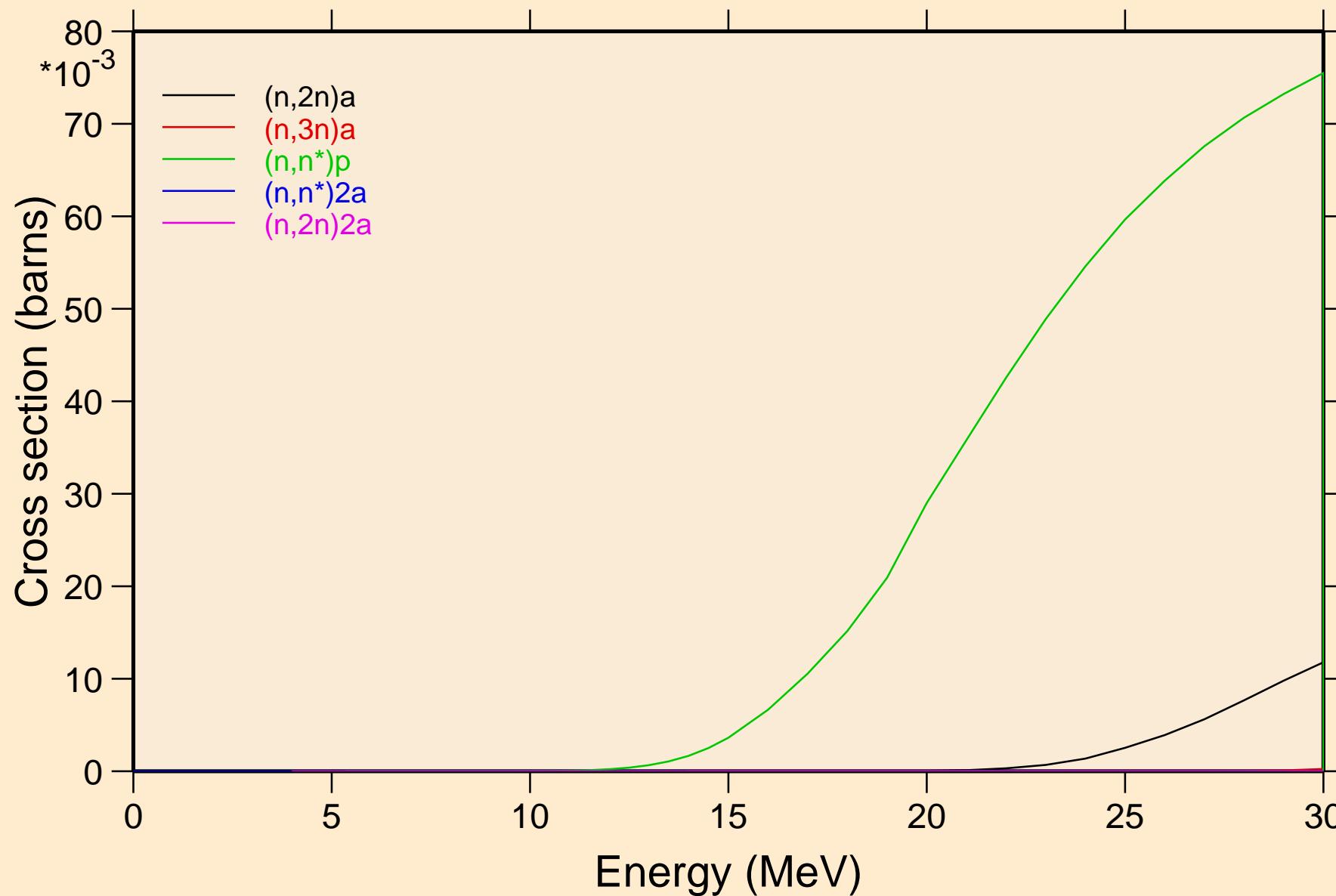
# N-TB156 NRG TENDL-2017, AKONING

## Threshold reactions



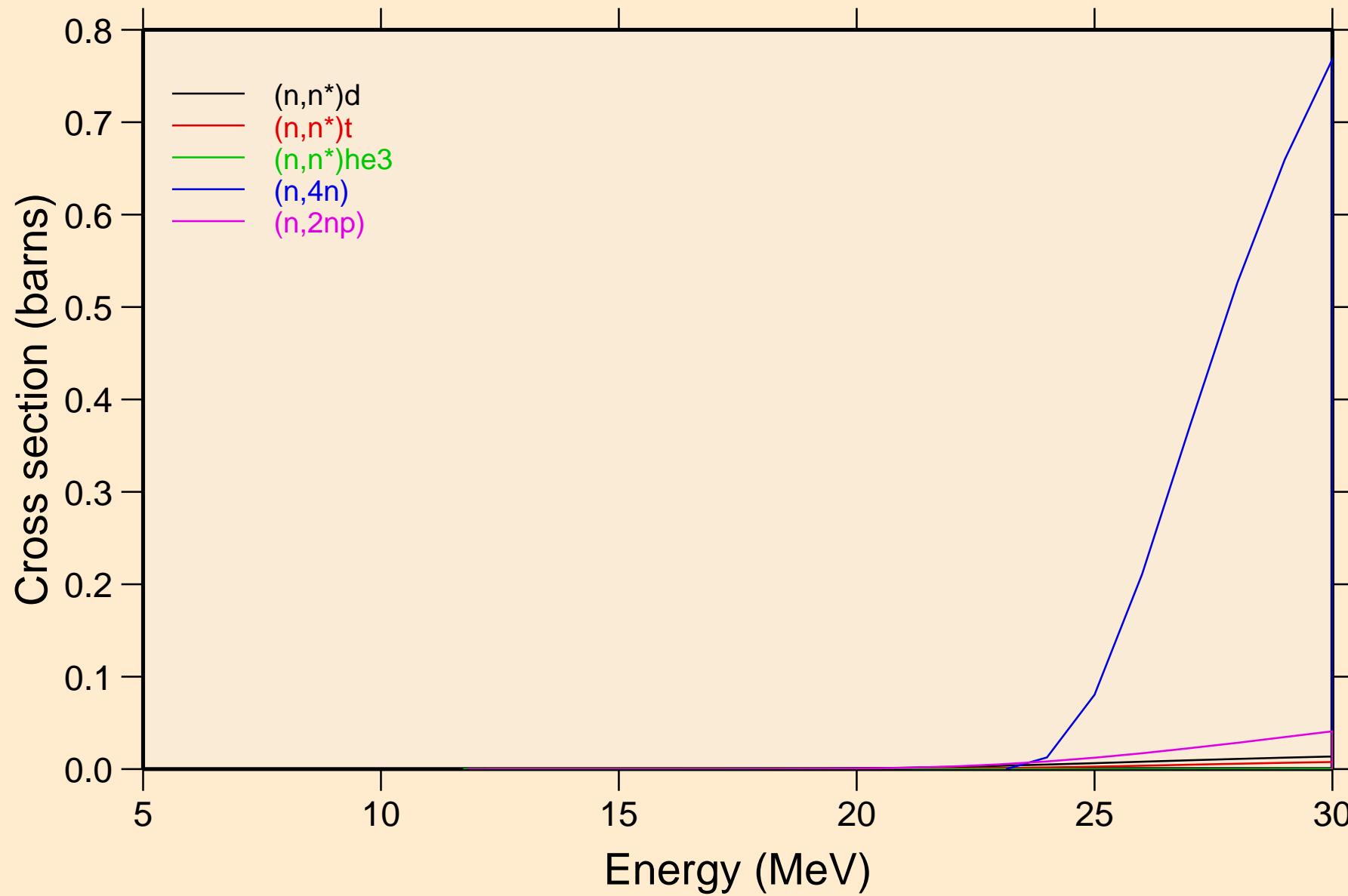
# N-TB156 NRG TENDL-2017, AKONING

## Threshold reactions



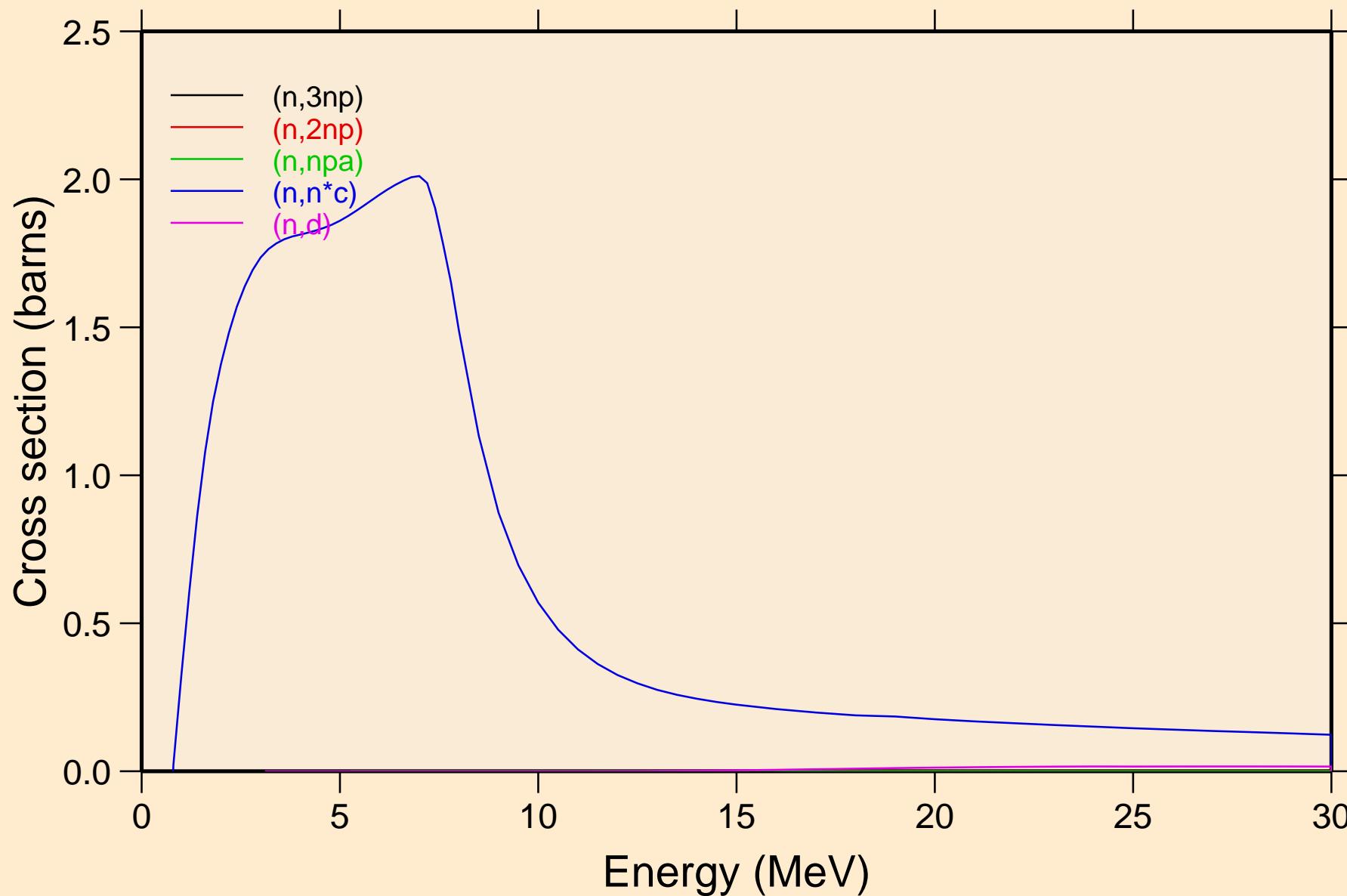
# N-TB156 NRG TENDL-2017, AKONING

## Threshold reactions



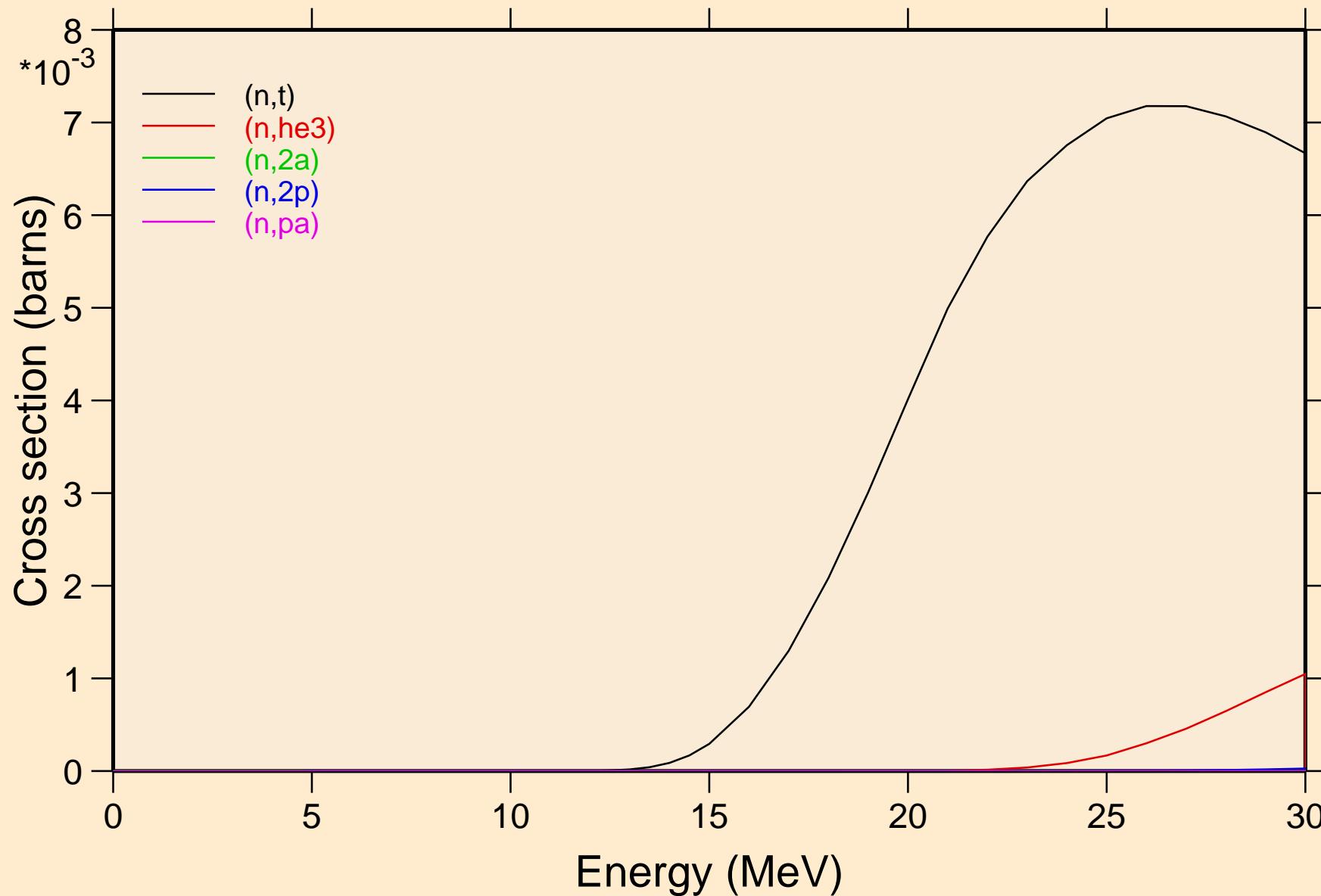
# N-TB156 NRG TENDL-2017, AKONING

## Threshold reactions



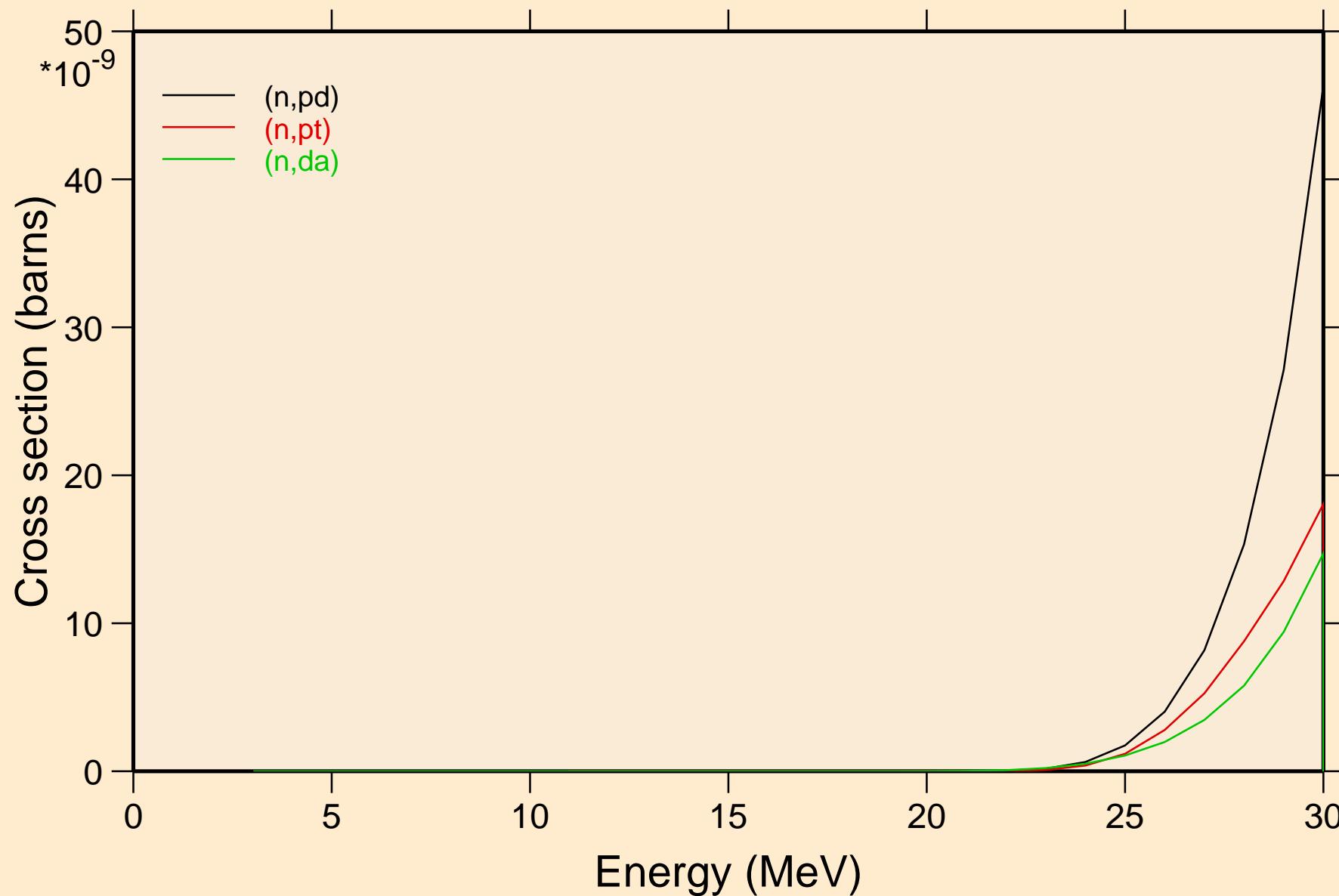
# N-TB156 NRG TENDL-2017, AKONING

## Threshold reactions

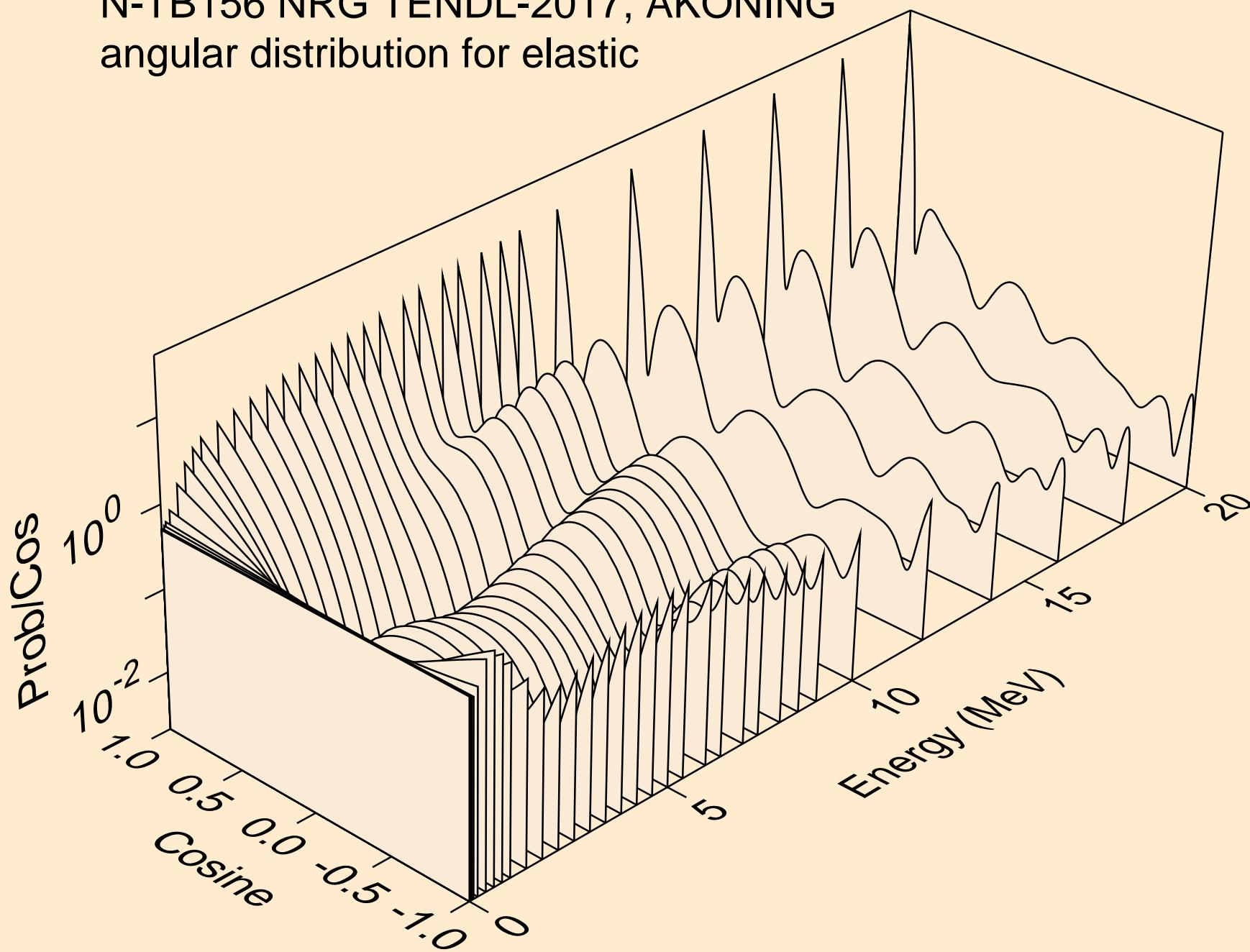


# N-TB156 NRG TENDL-2017, AKONING

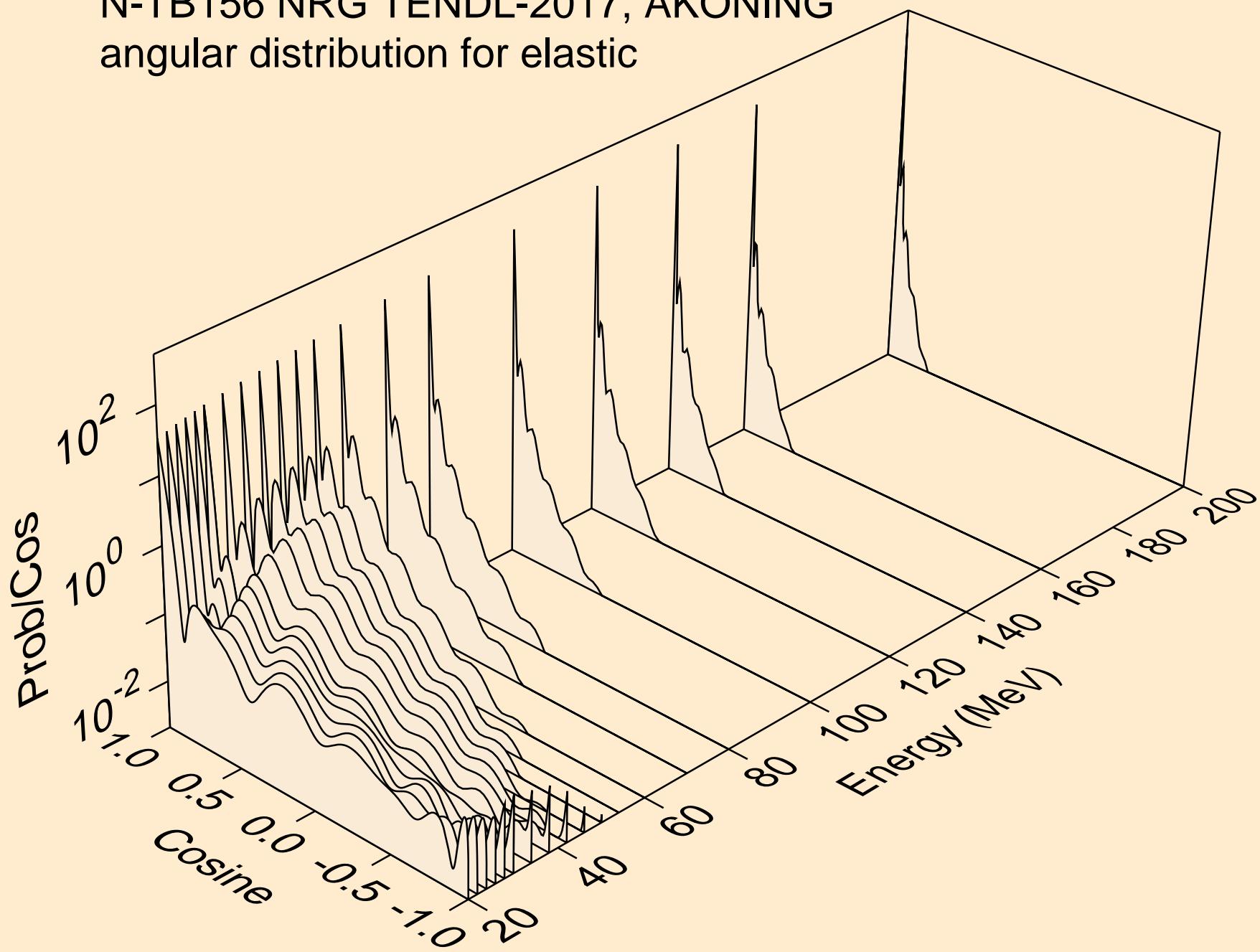
## Threshold reactions



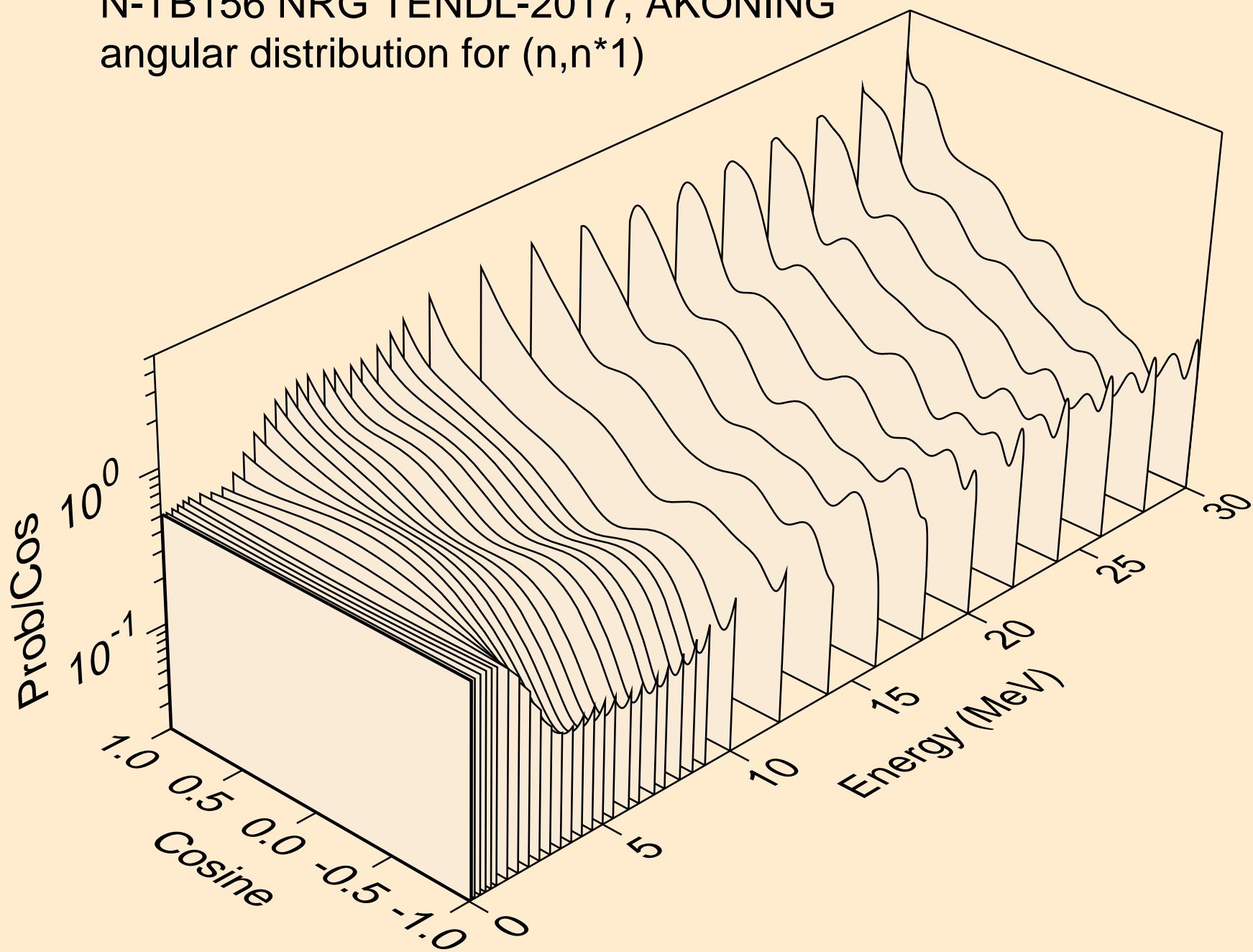
N-TB156 NRG TENDL-2017, AKONING  
angular distribution for elastic



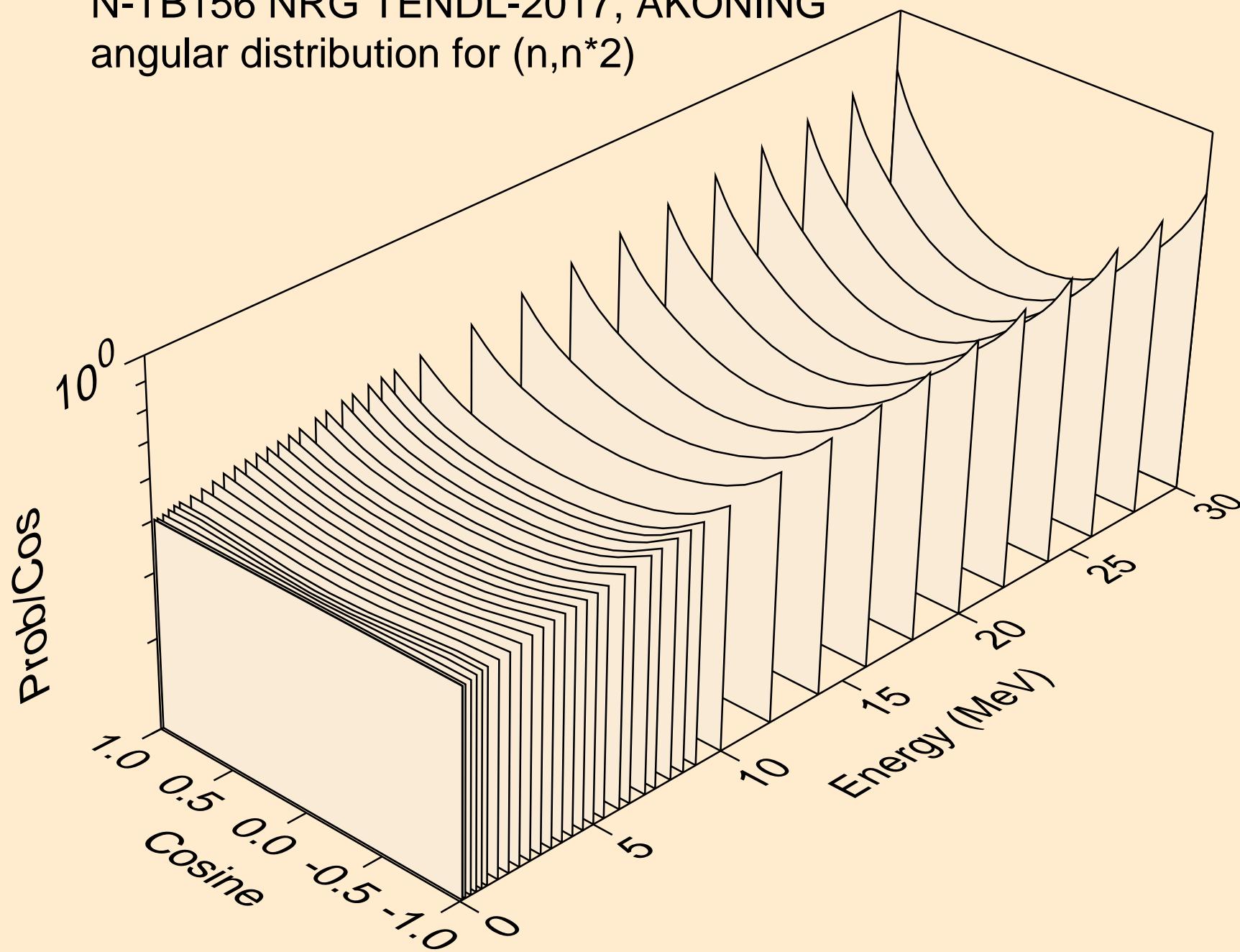
N-TB156 NRG TENDL-2017, AKONING  
angular distribution for elastic



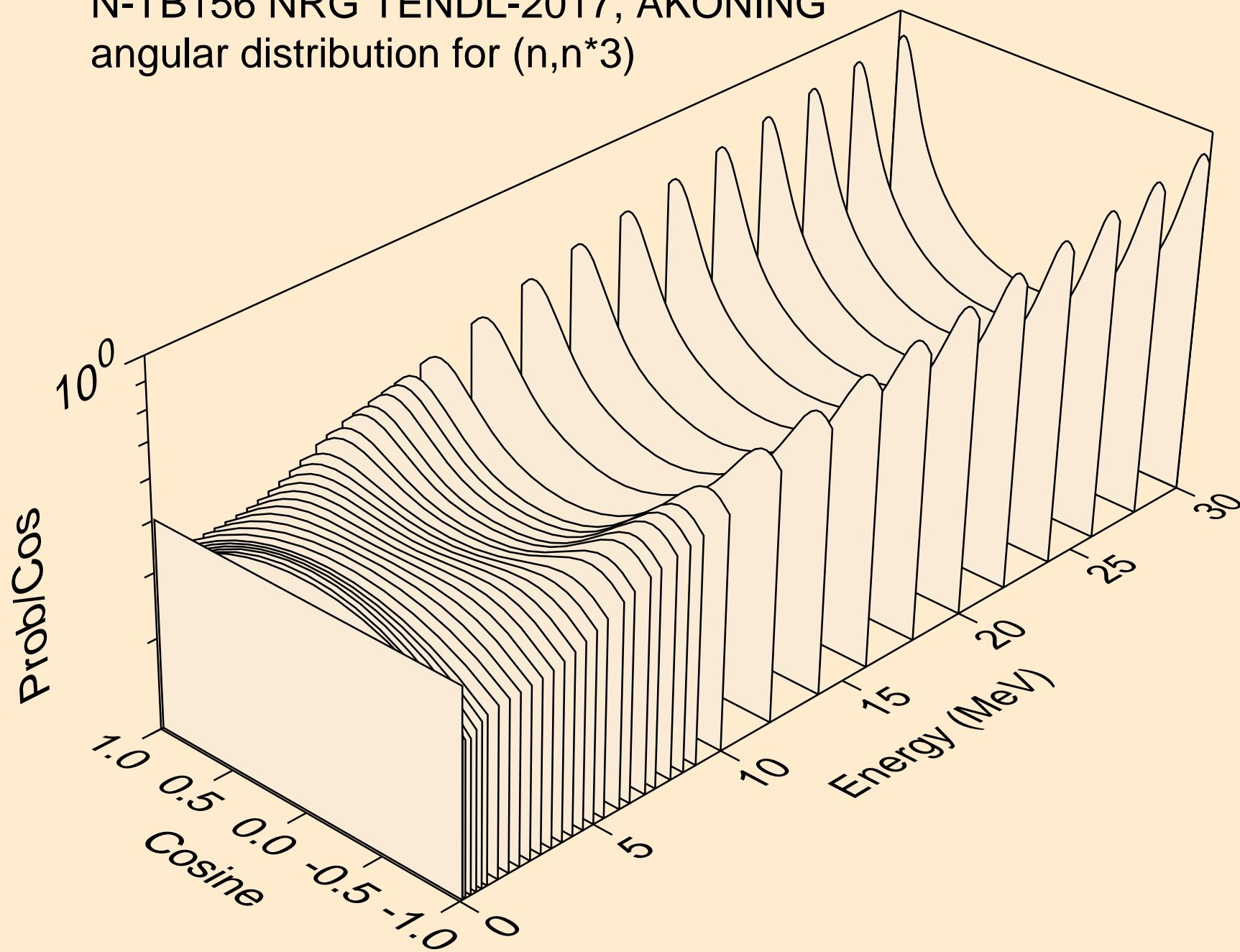
N-TB156 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*)$



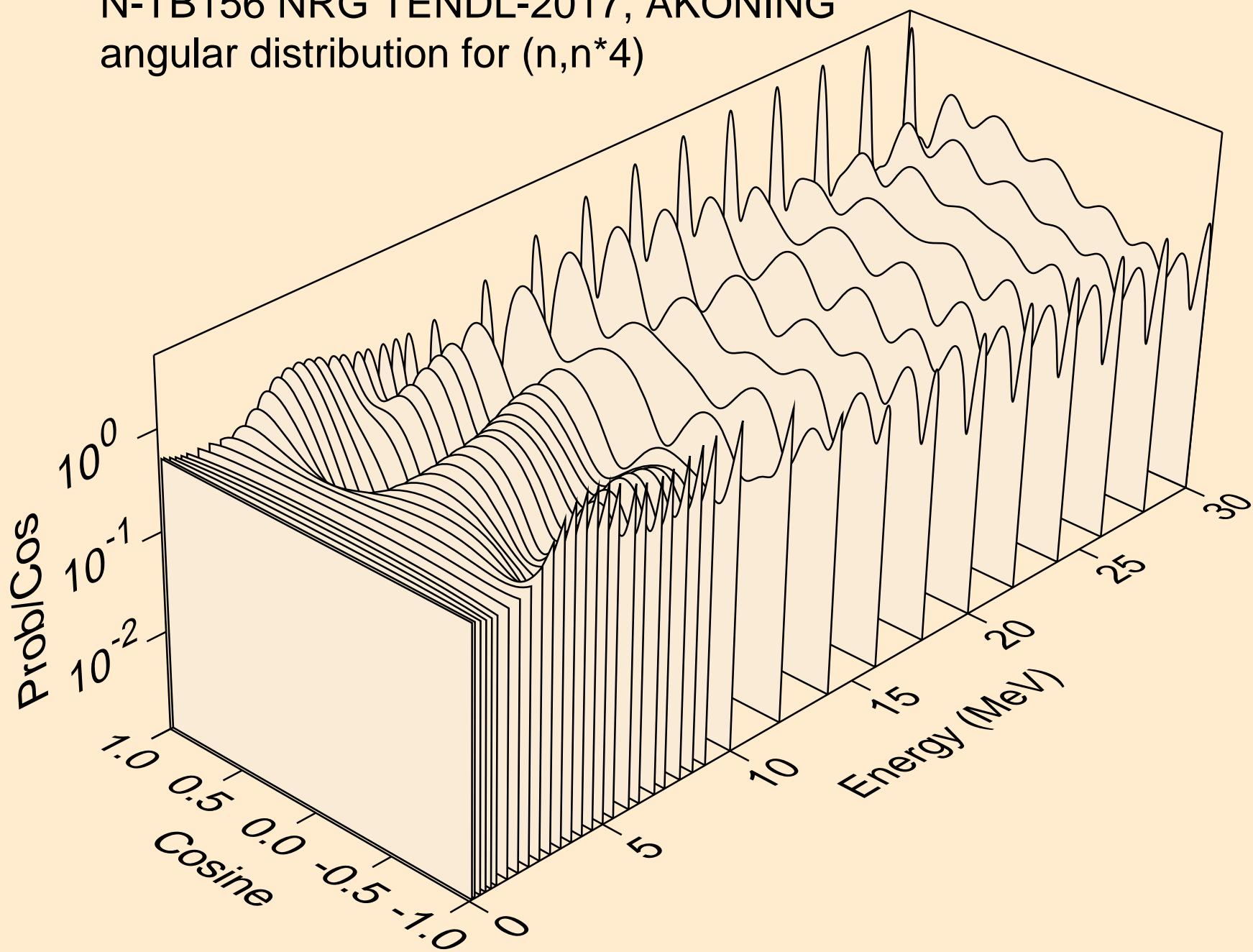
N-TB156 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*)^2$



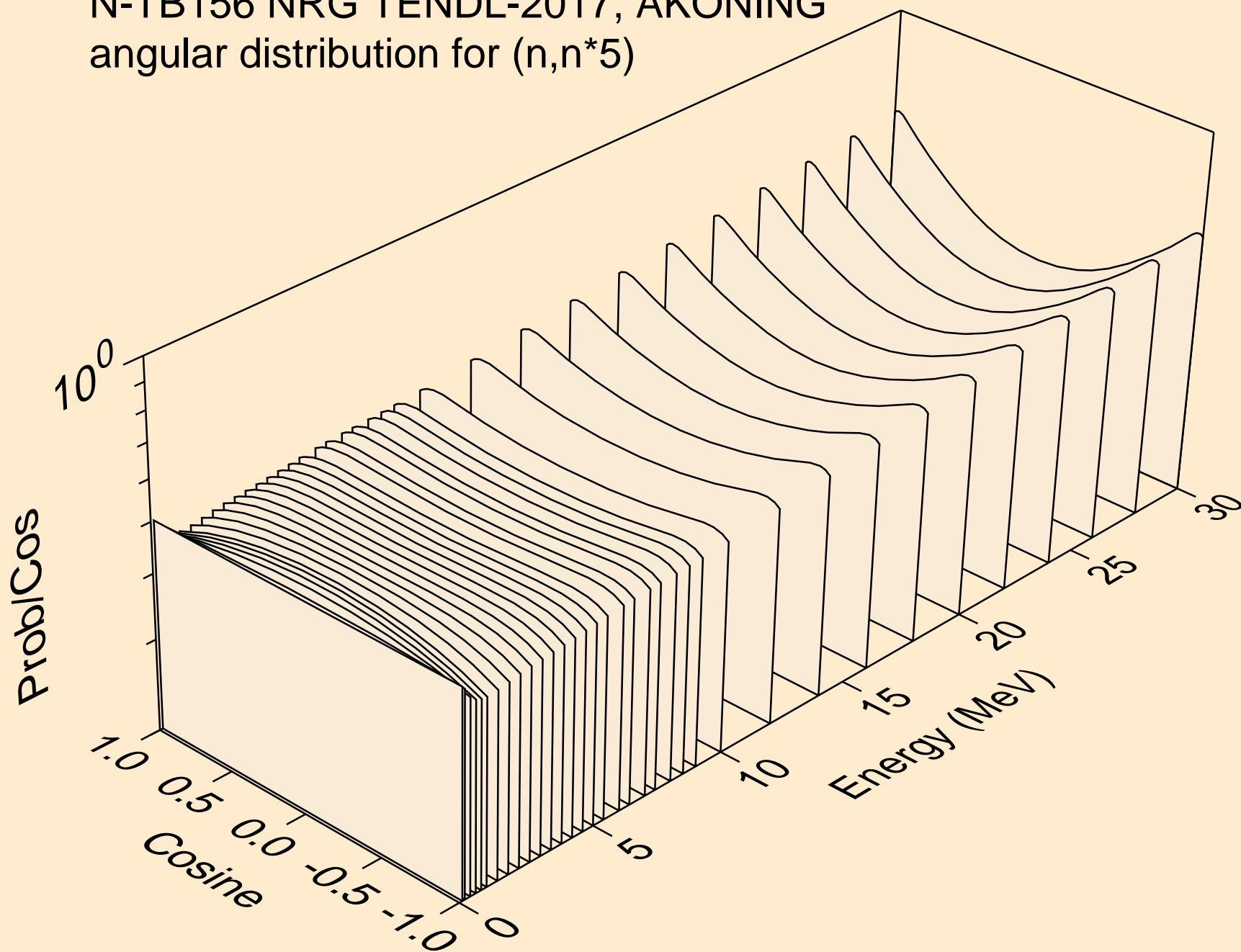
N-TB156 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*3)$



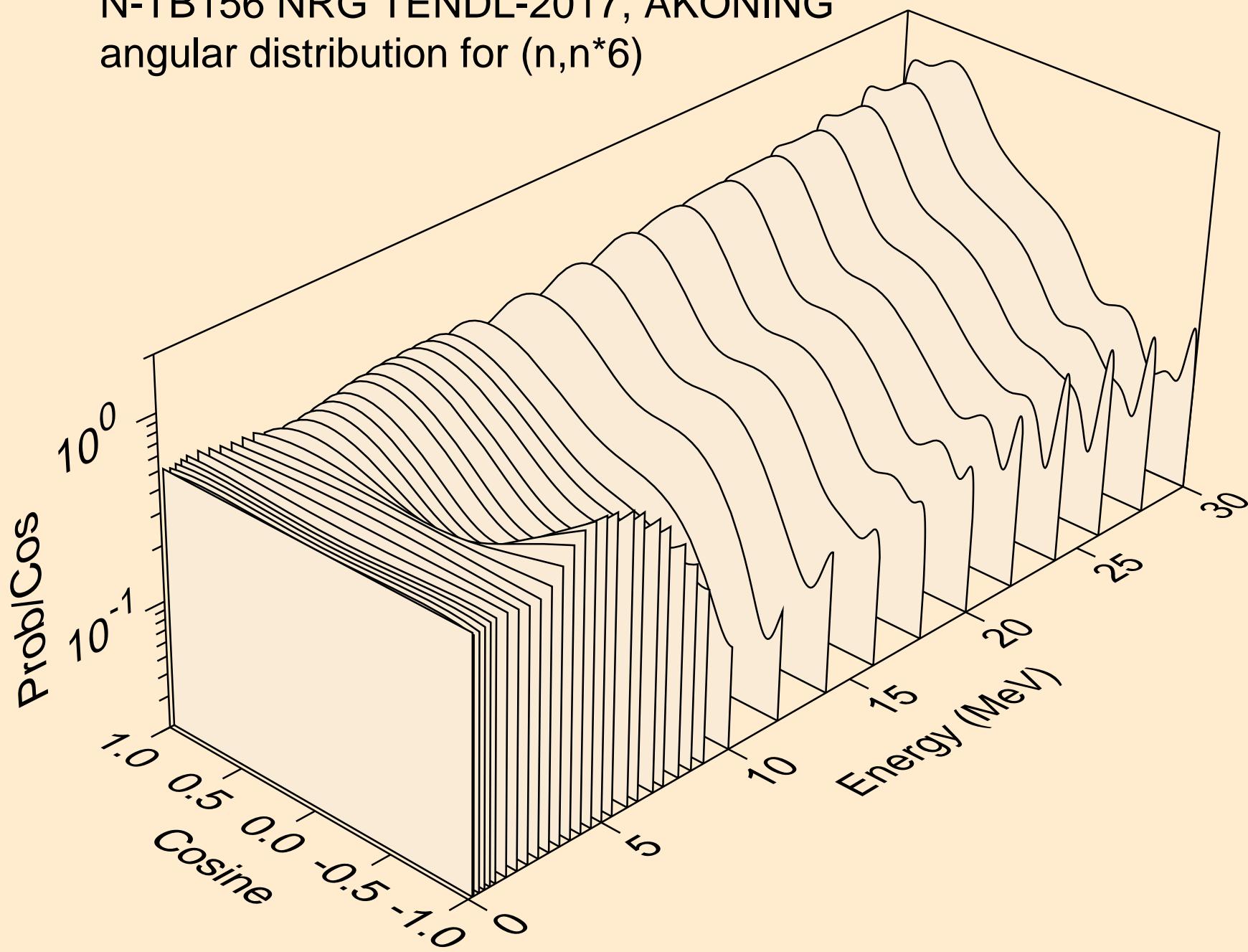
N-TB156 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*4)$



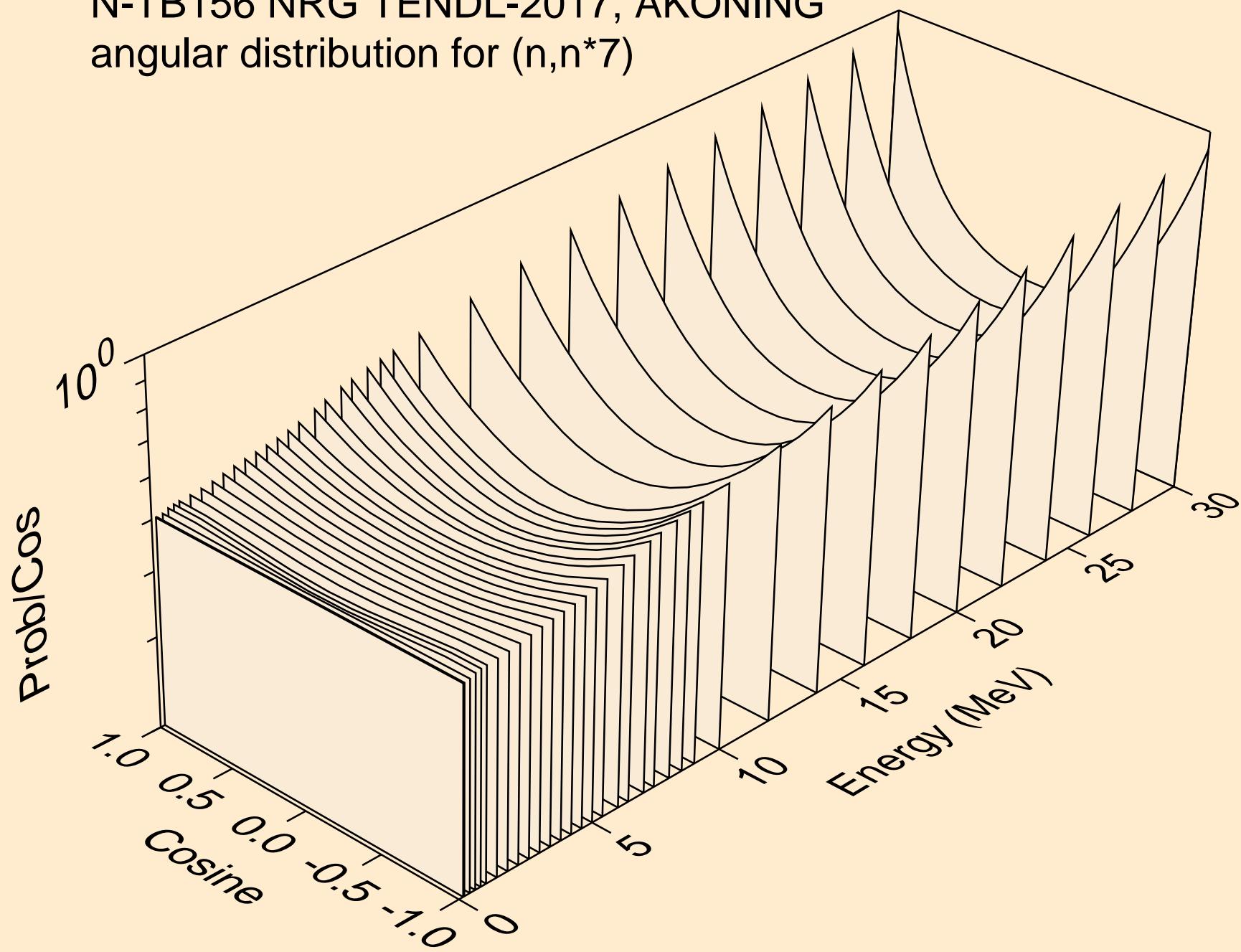
N-TB156 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*)$



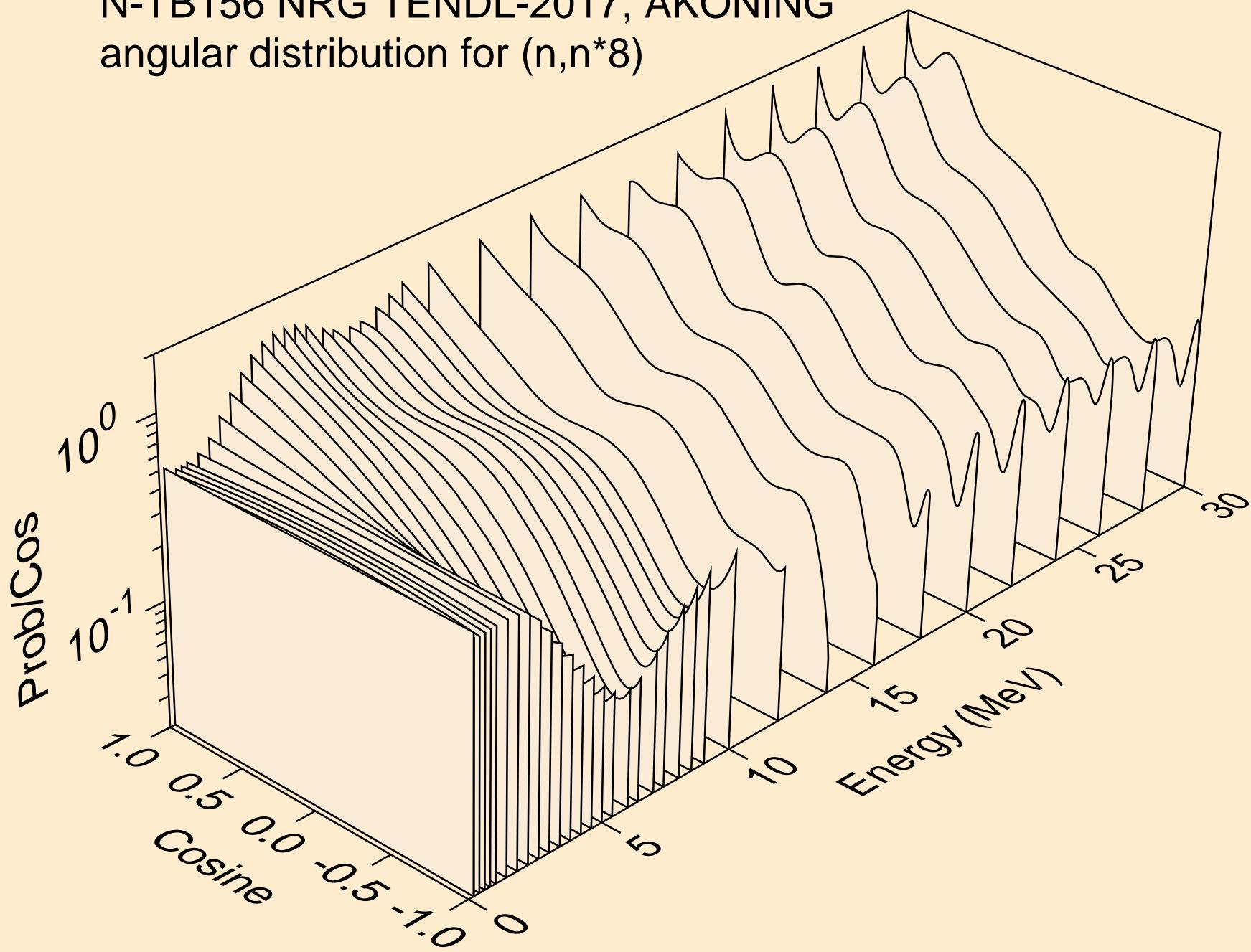
N-TB156 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*6)$



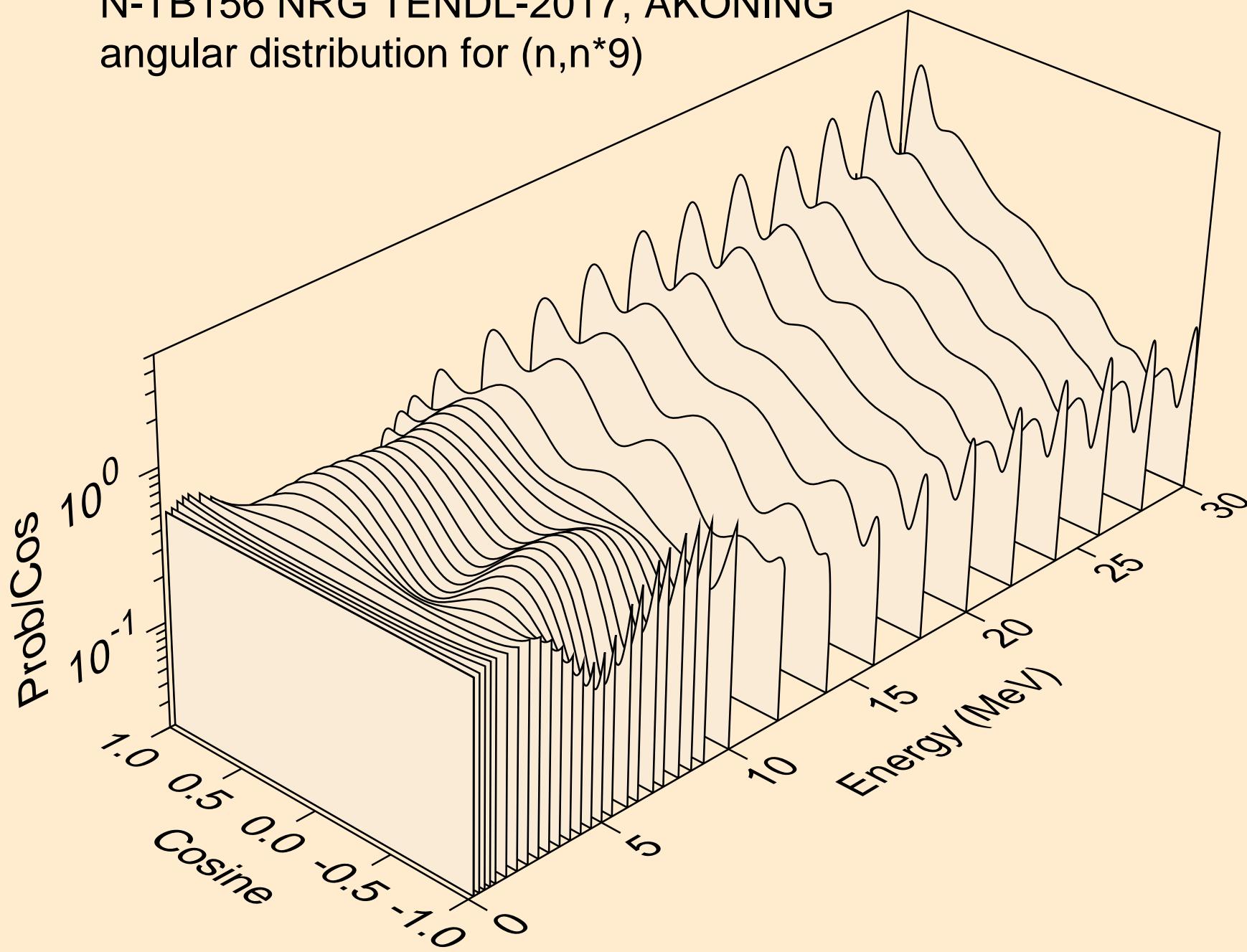
N-TB156 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*)^7$



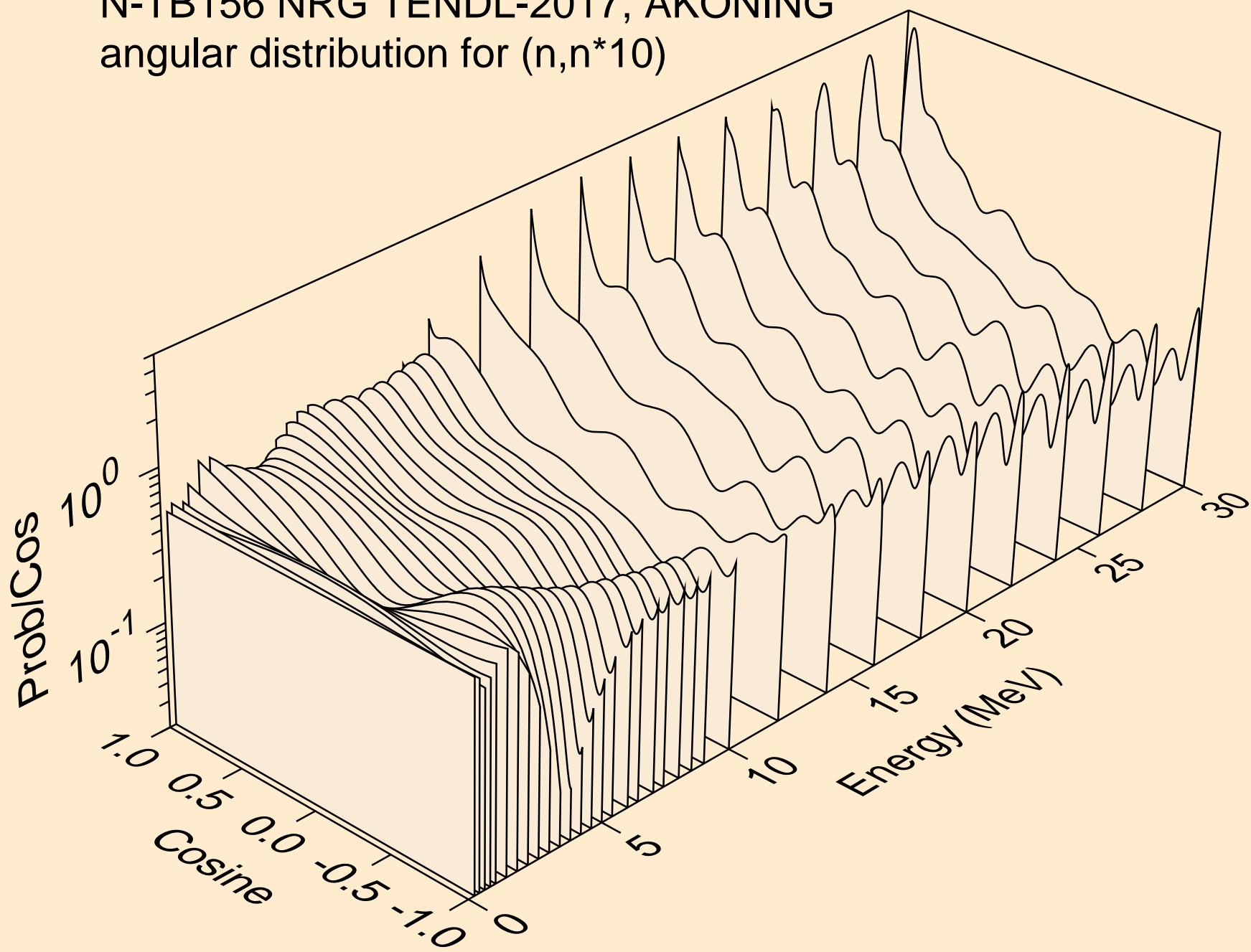
N-TB156 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*)^8$



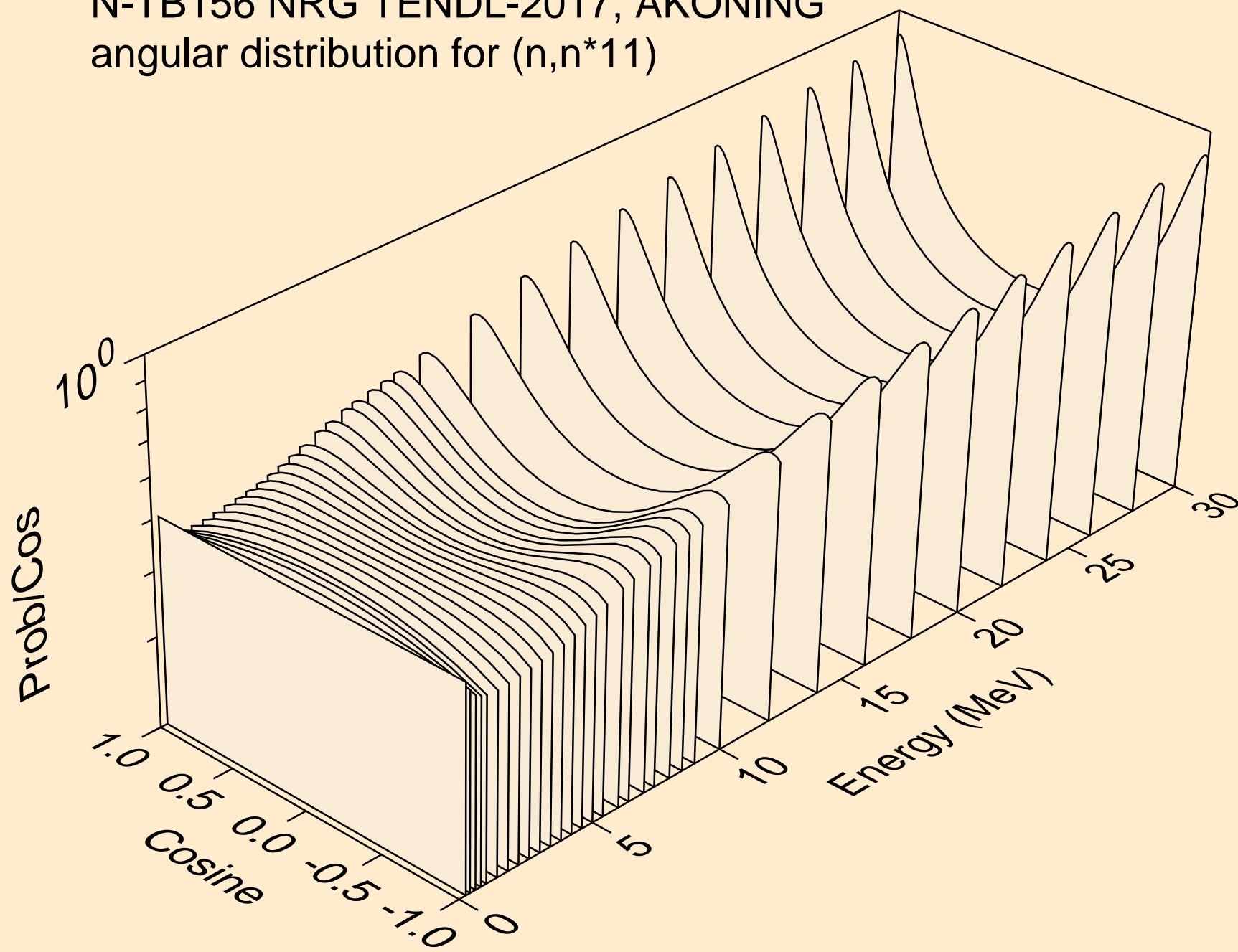
N-TB156 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*)9$



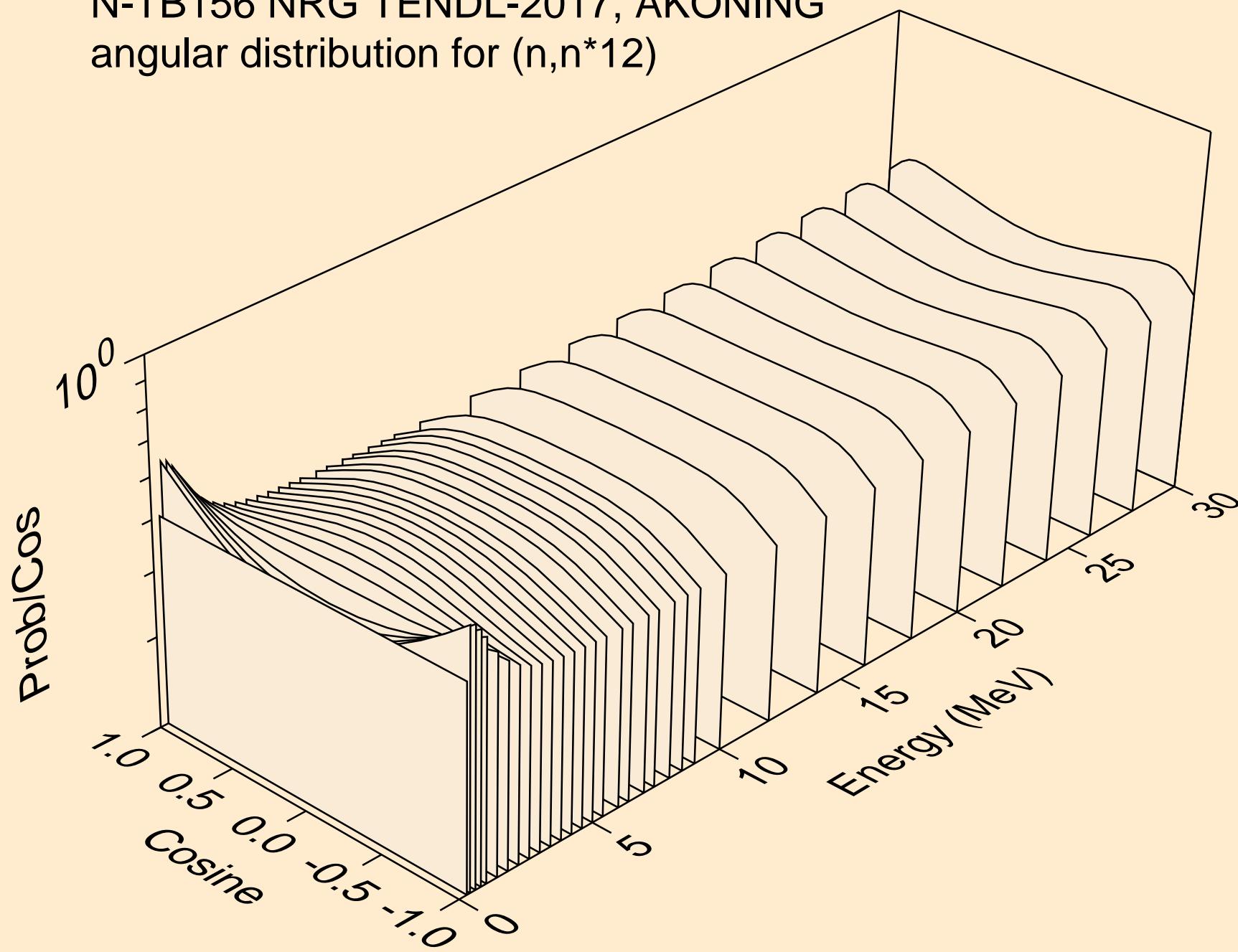
N-TB156 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*10)$



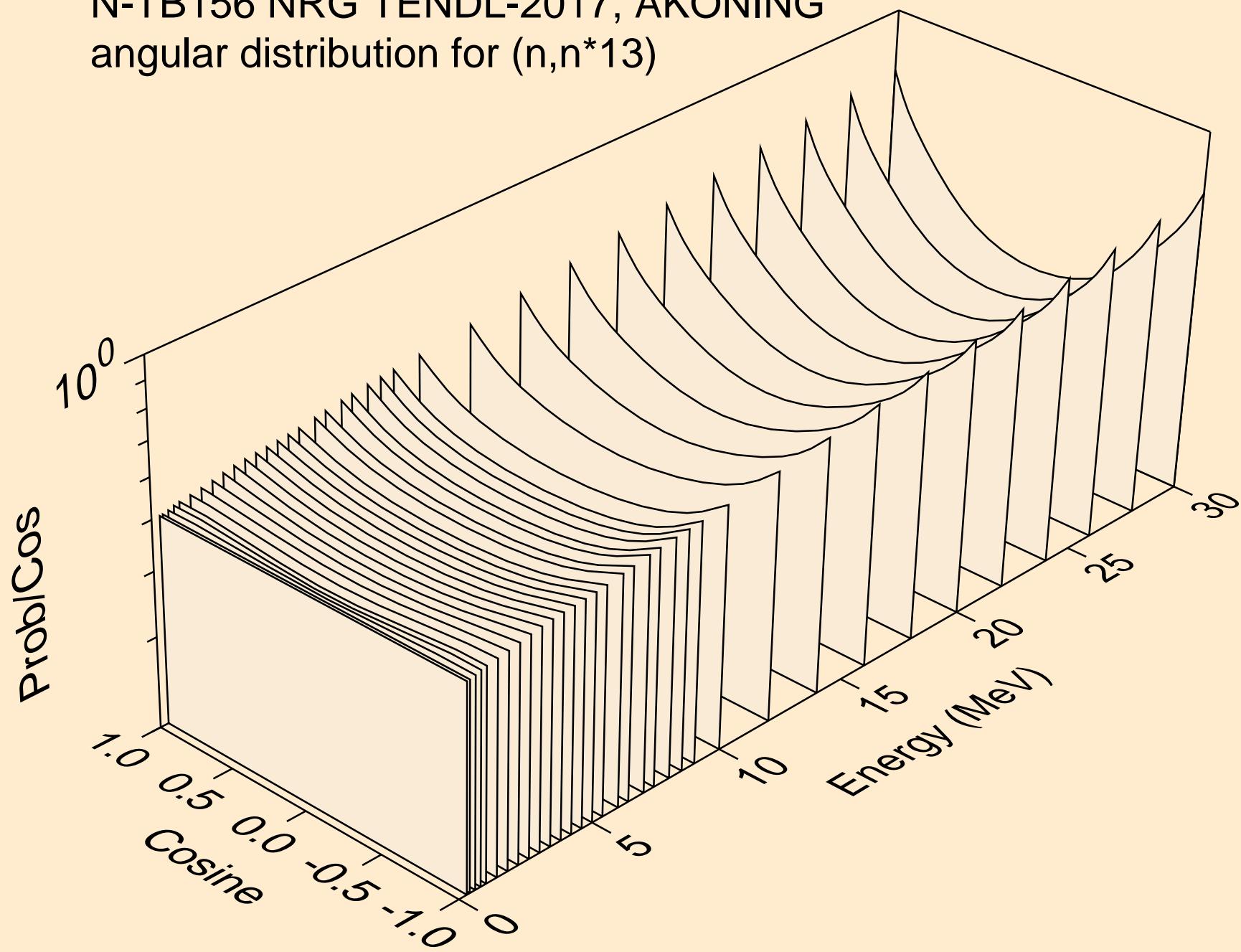
N-TB156 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*11)



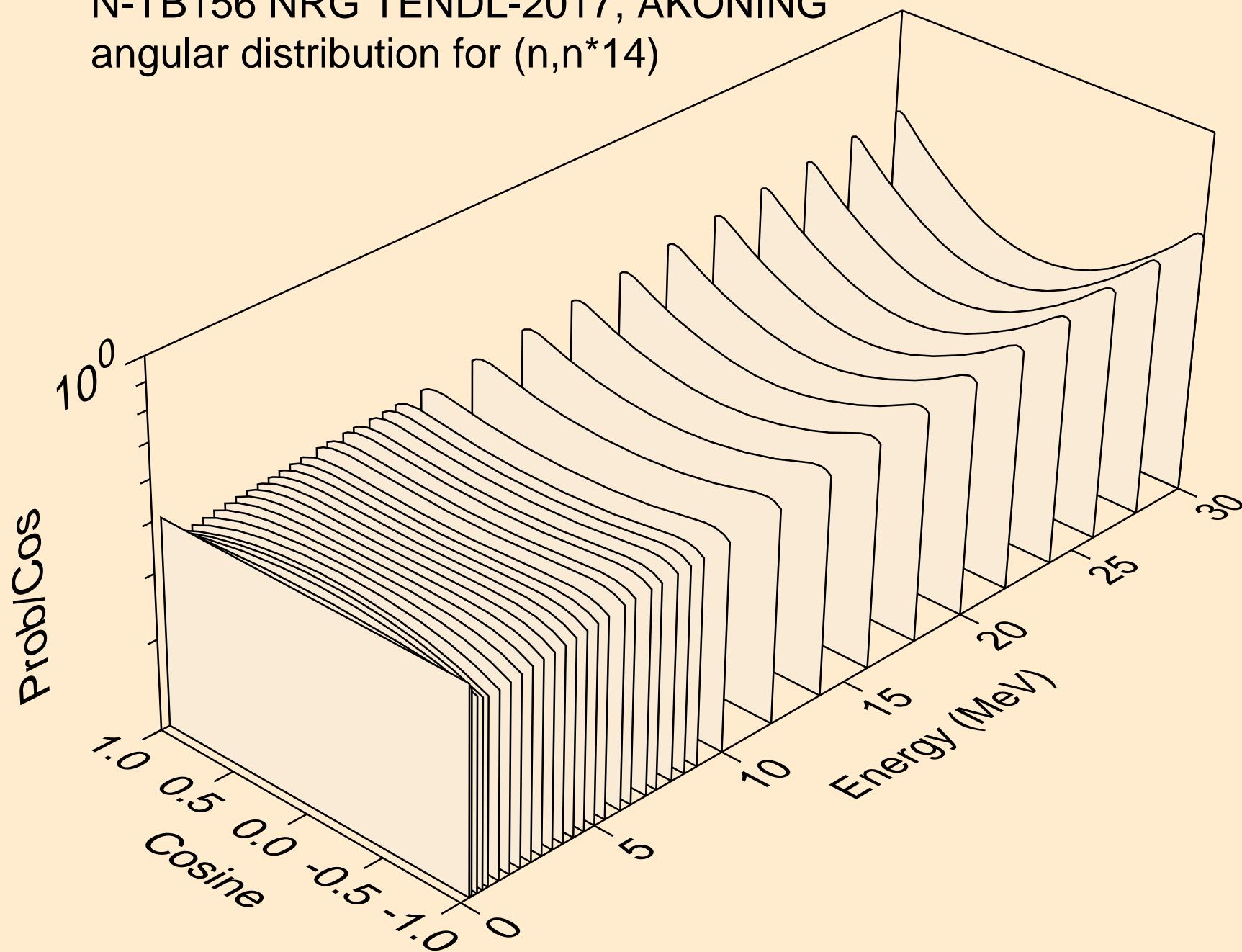
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angular distribution for  $(n,n^*12)$



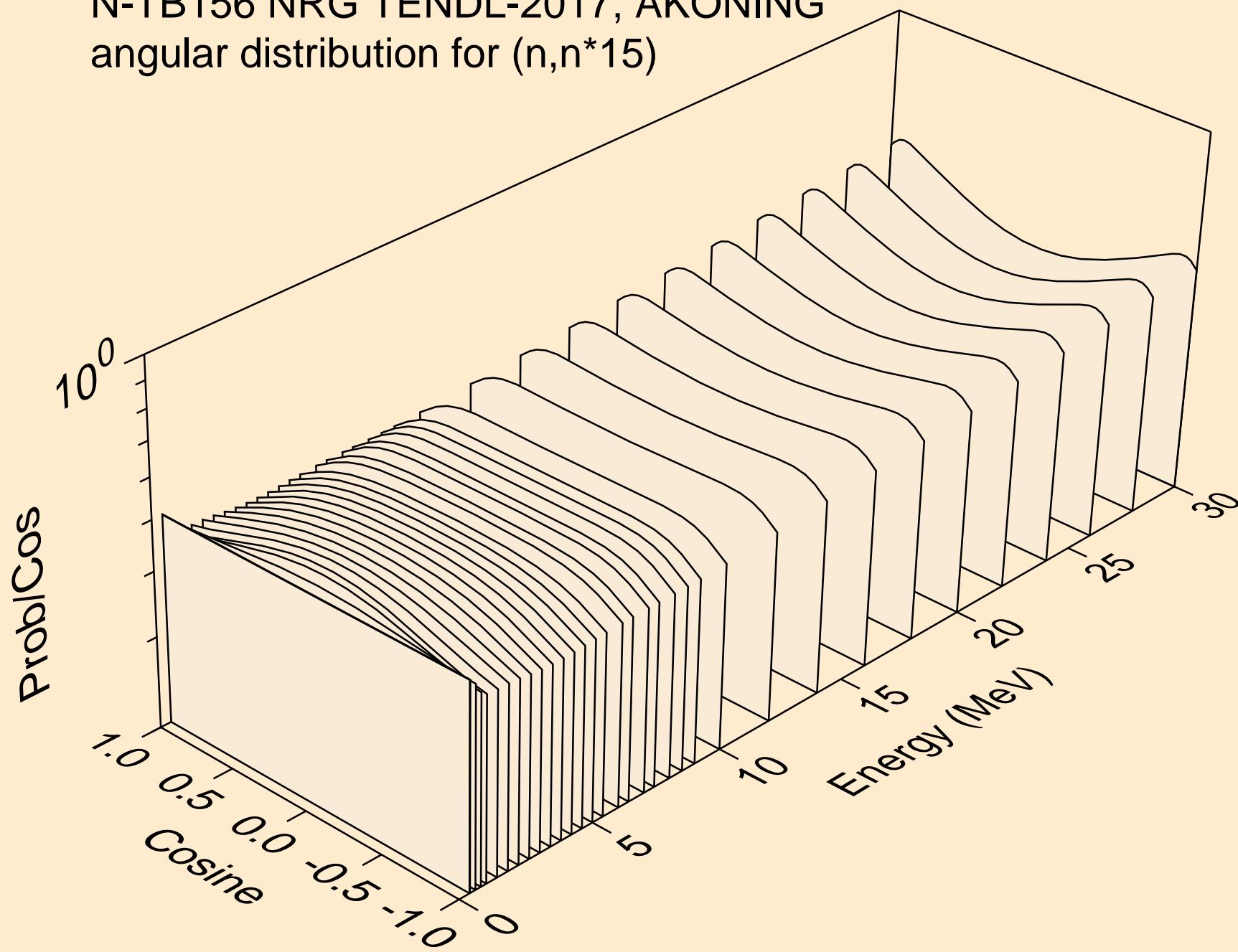
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angular distribution for (n,n\*13)



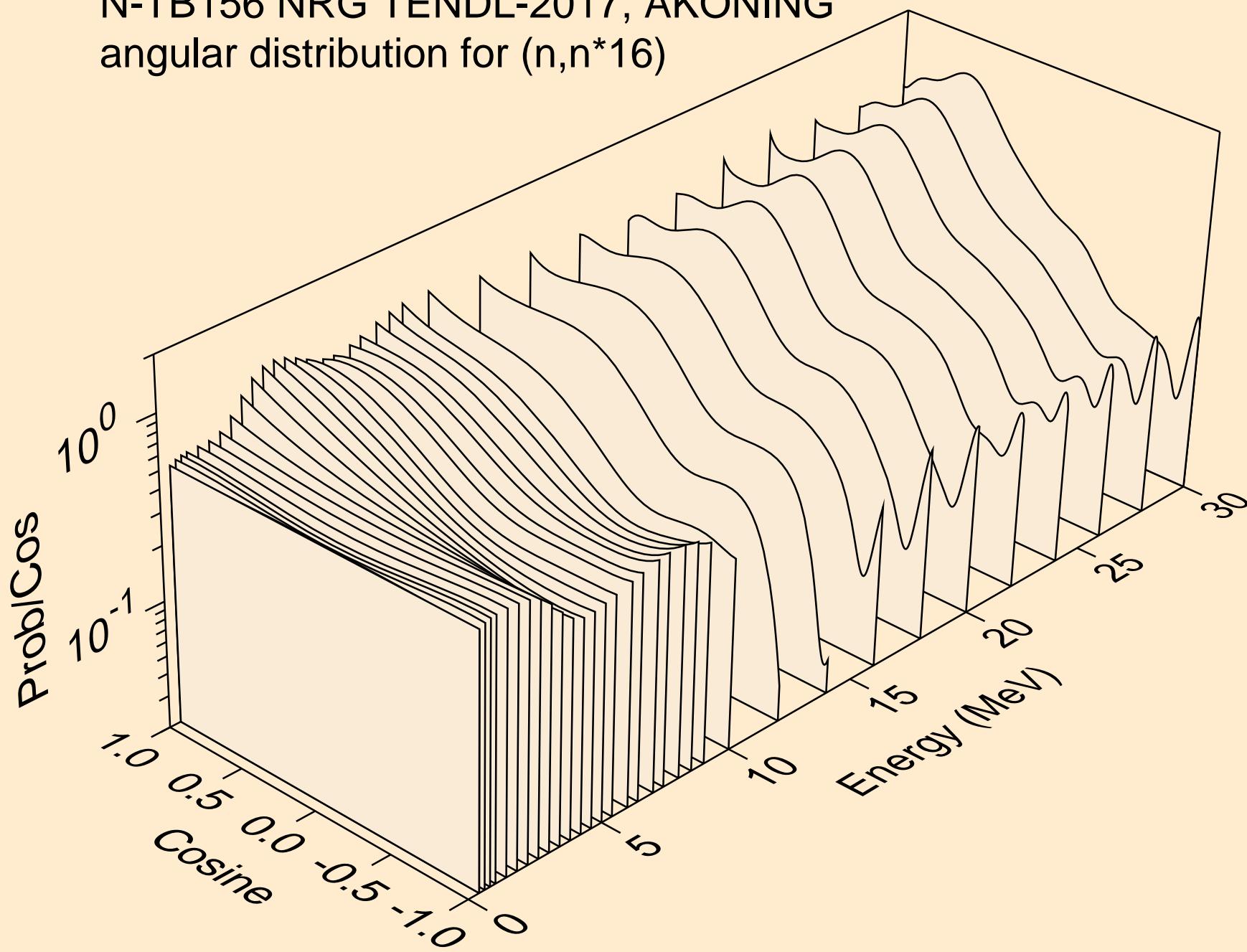
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angular distribution for (n,n\*14)



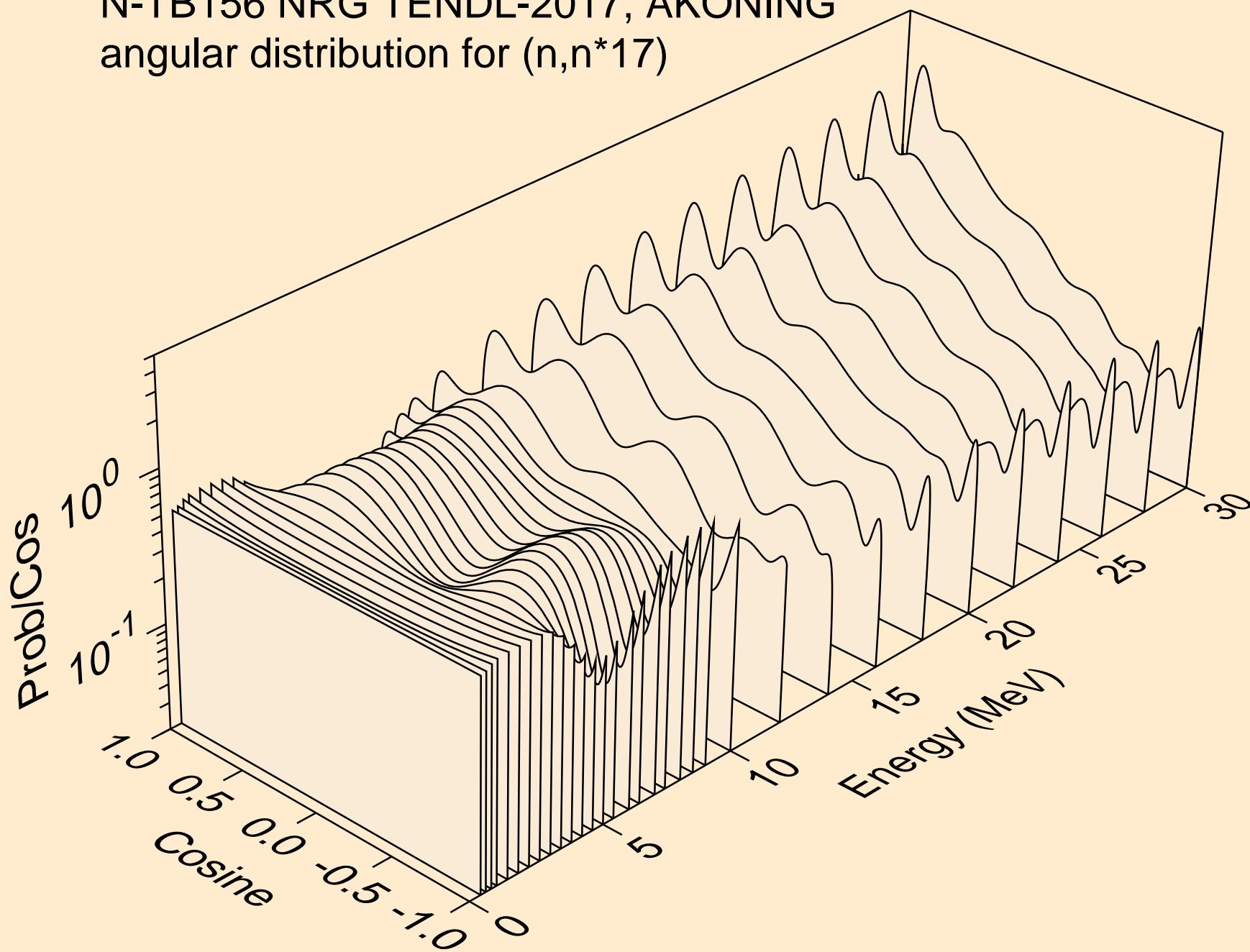
N-TB156 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*15)



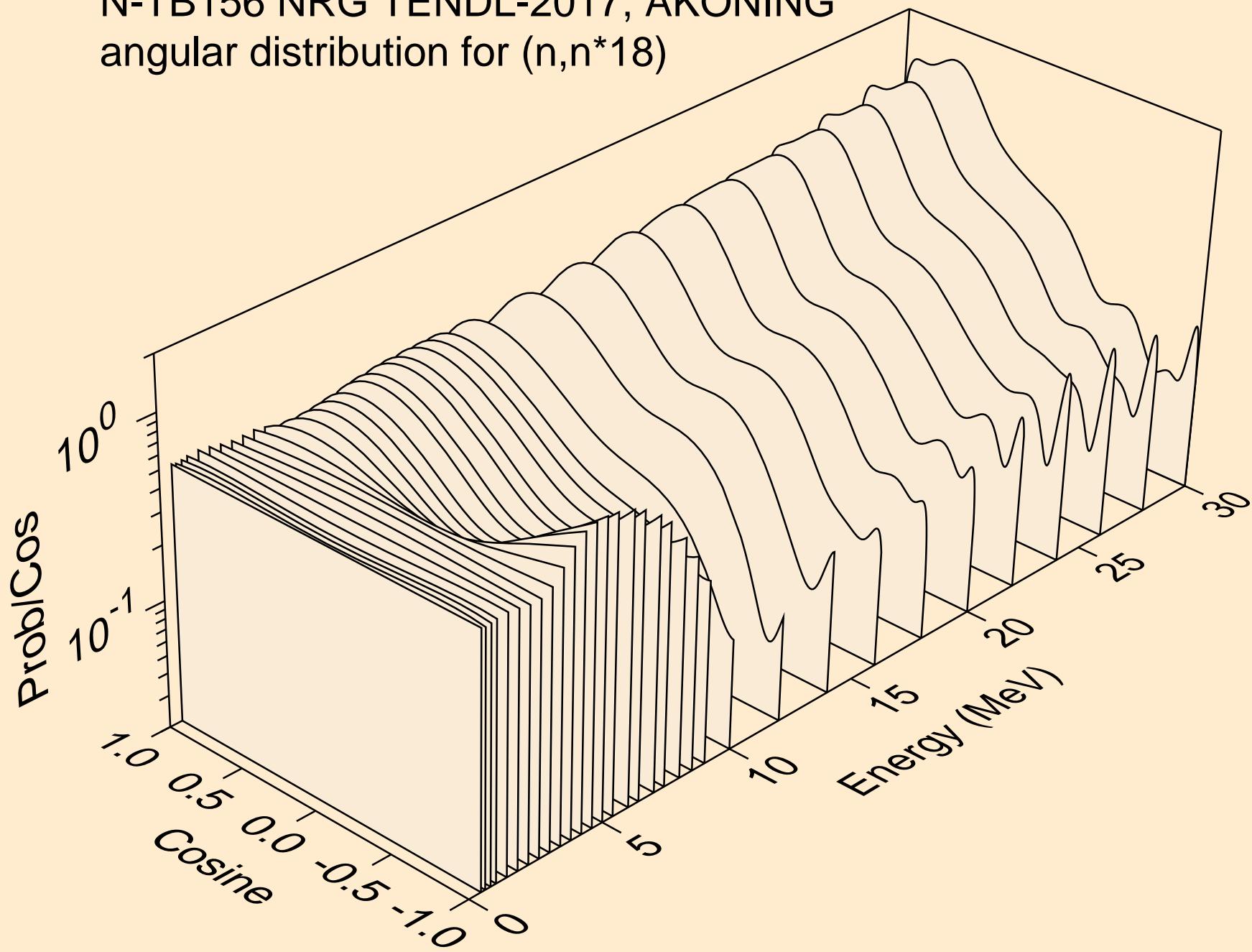
N-TB156 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*16)$



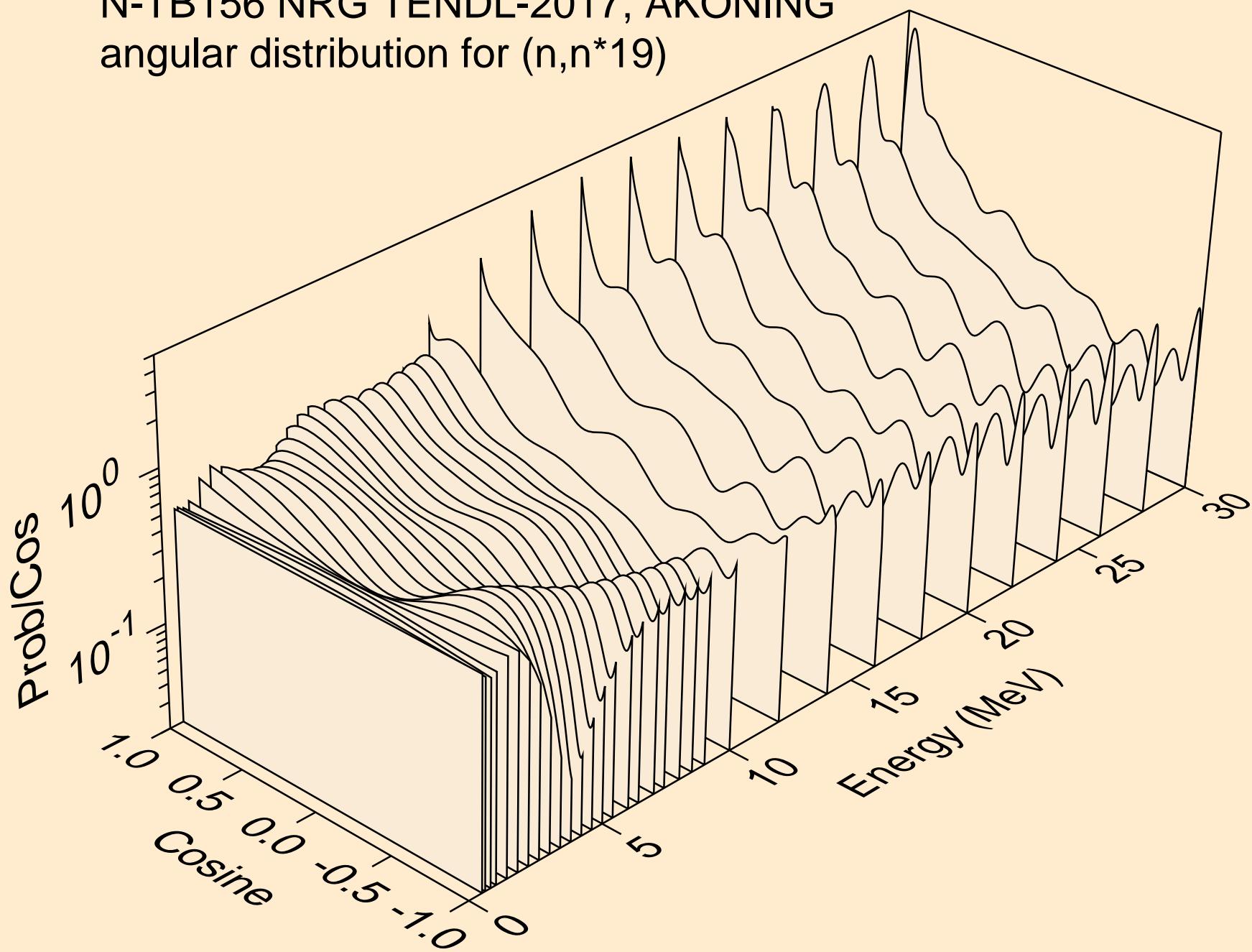
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angular distribution for  $(n,n^*17)$



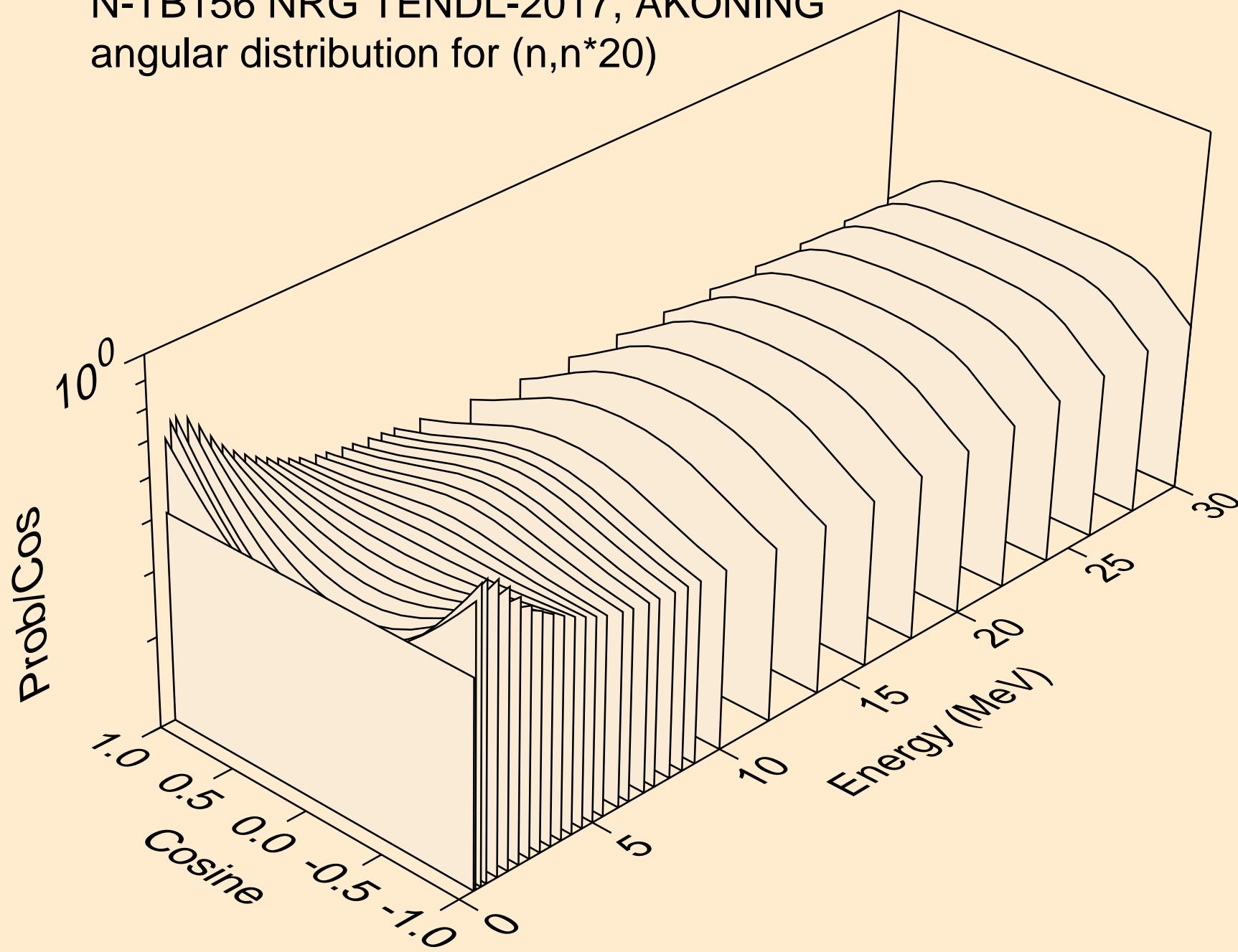
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angular distribution for (n,n\*18)



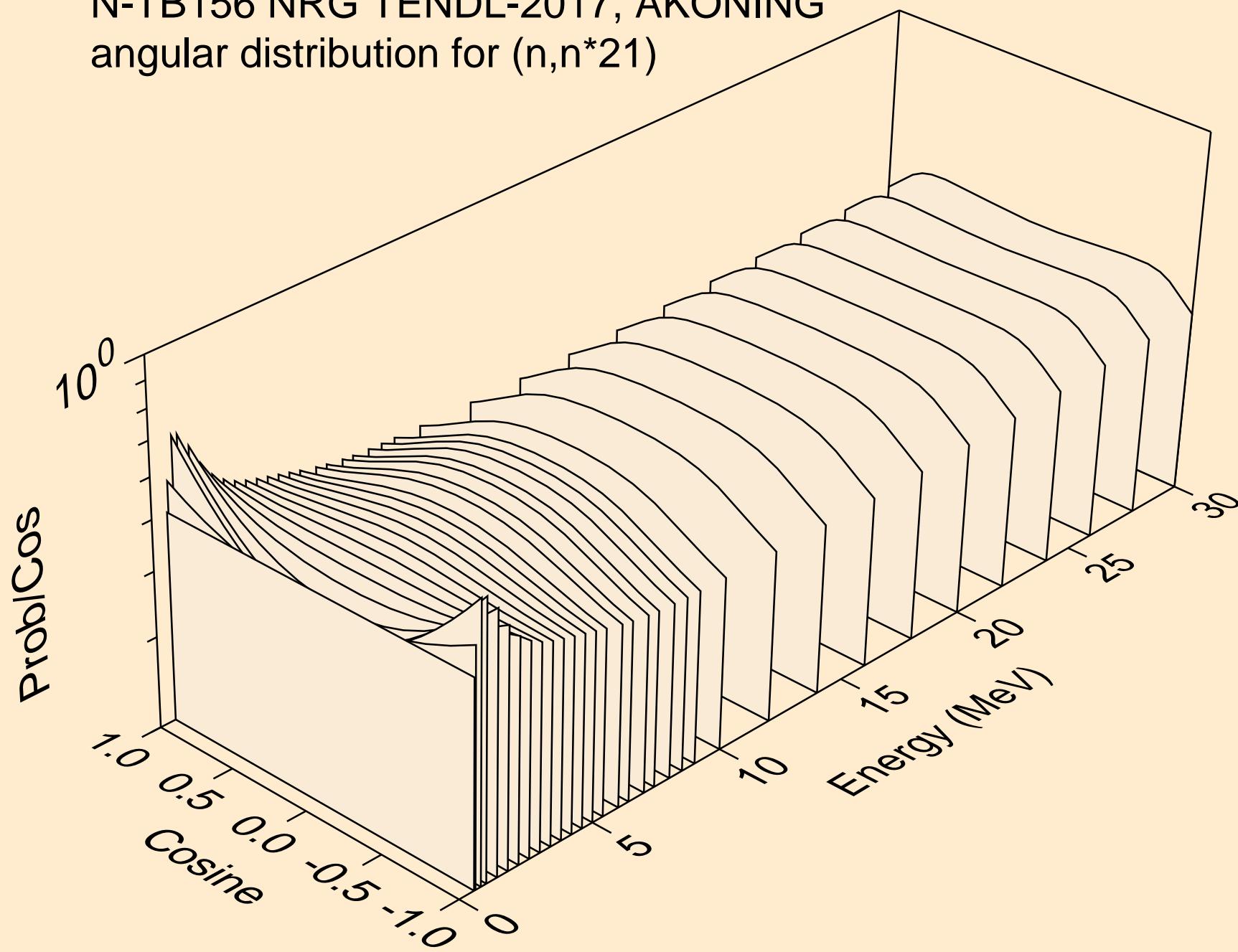
N-TB156 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*19)$



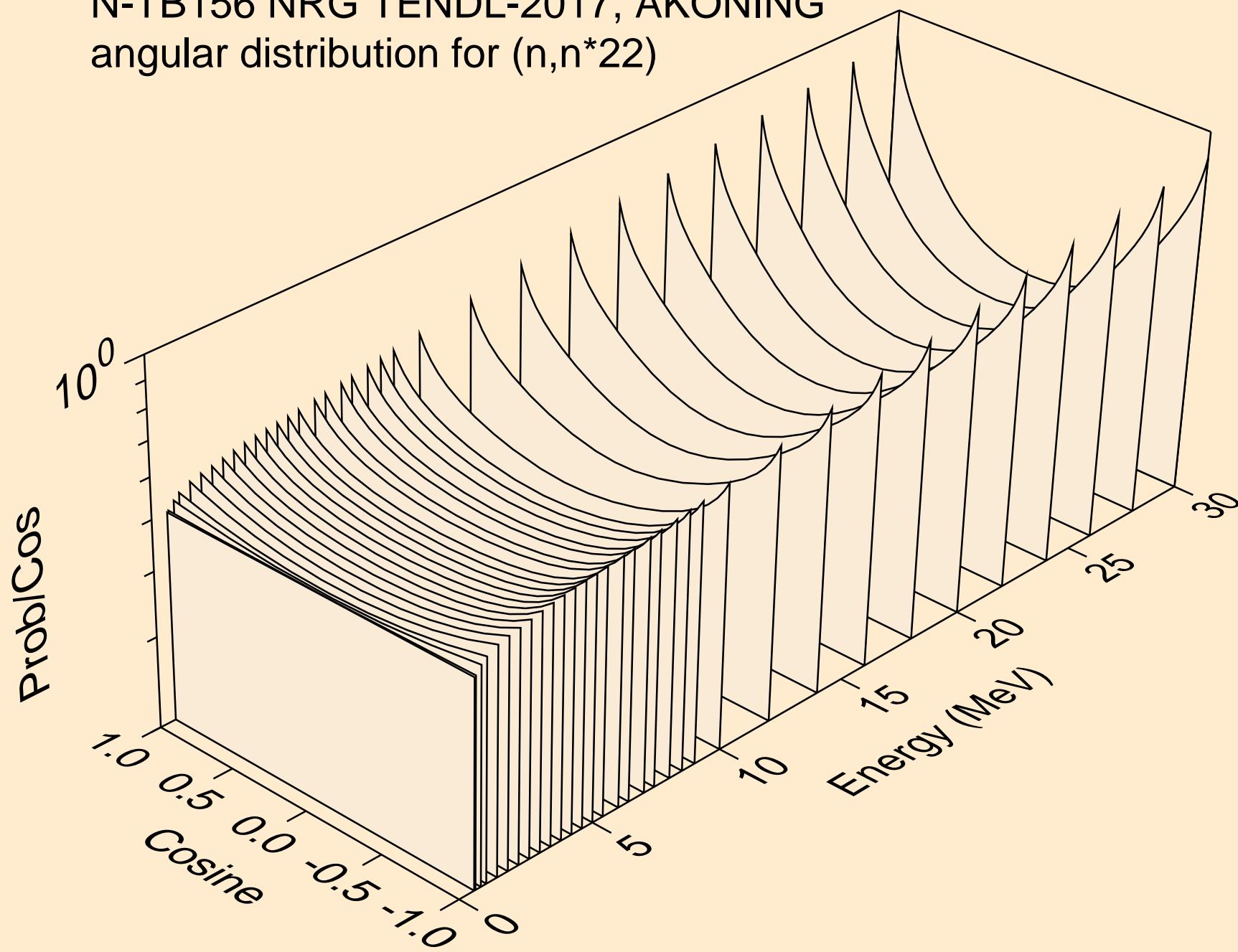
N-TB156 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*)20$



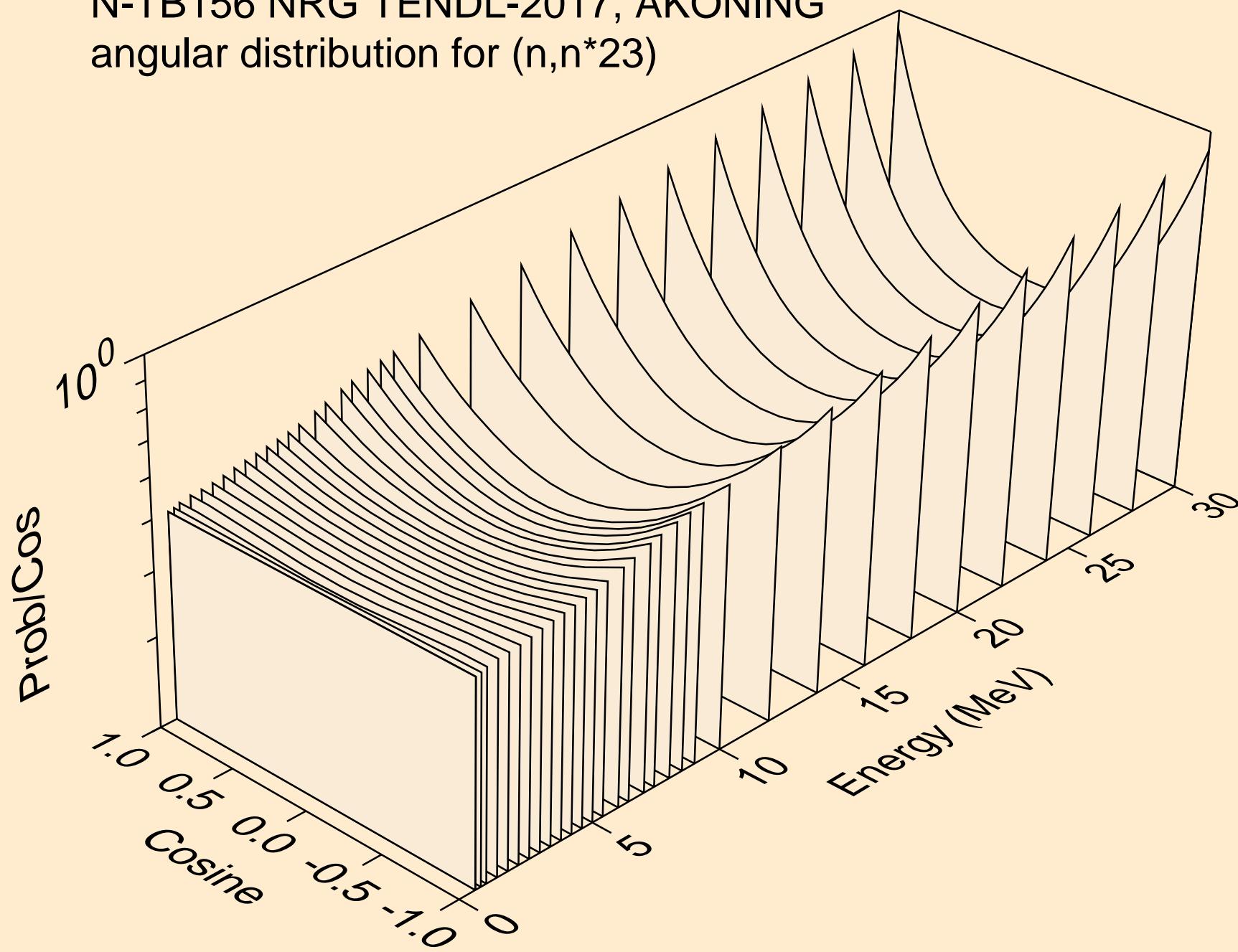
N-TB156 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*21)$



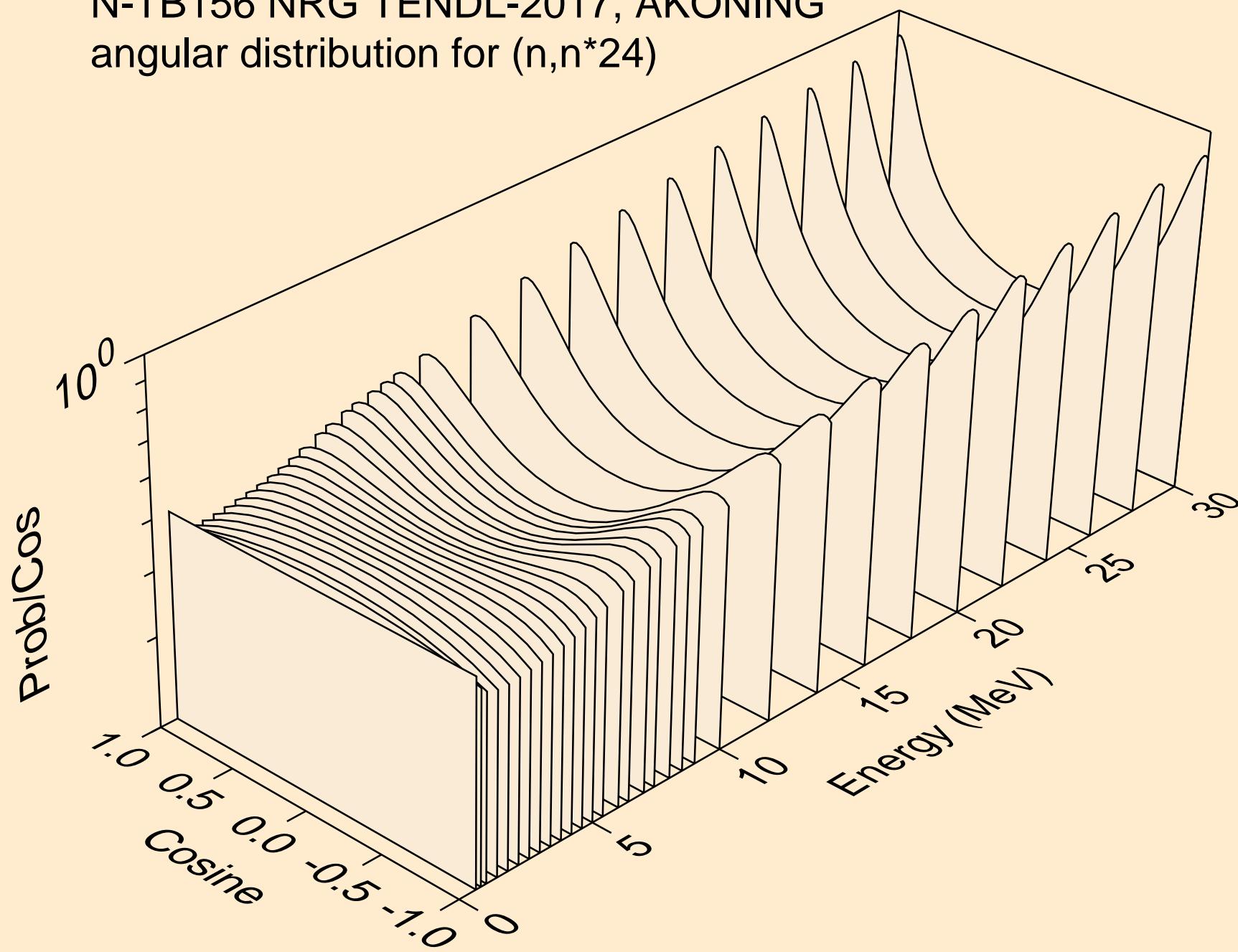
N-TB156 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*)_{22}$



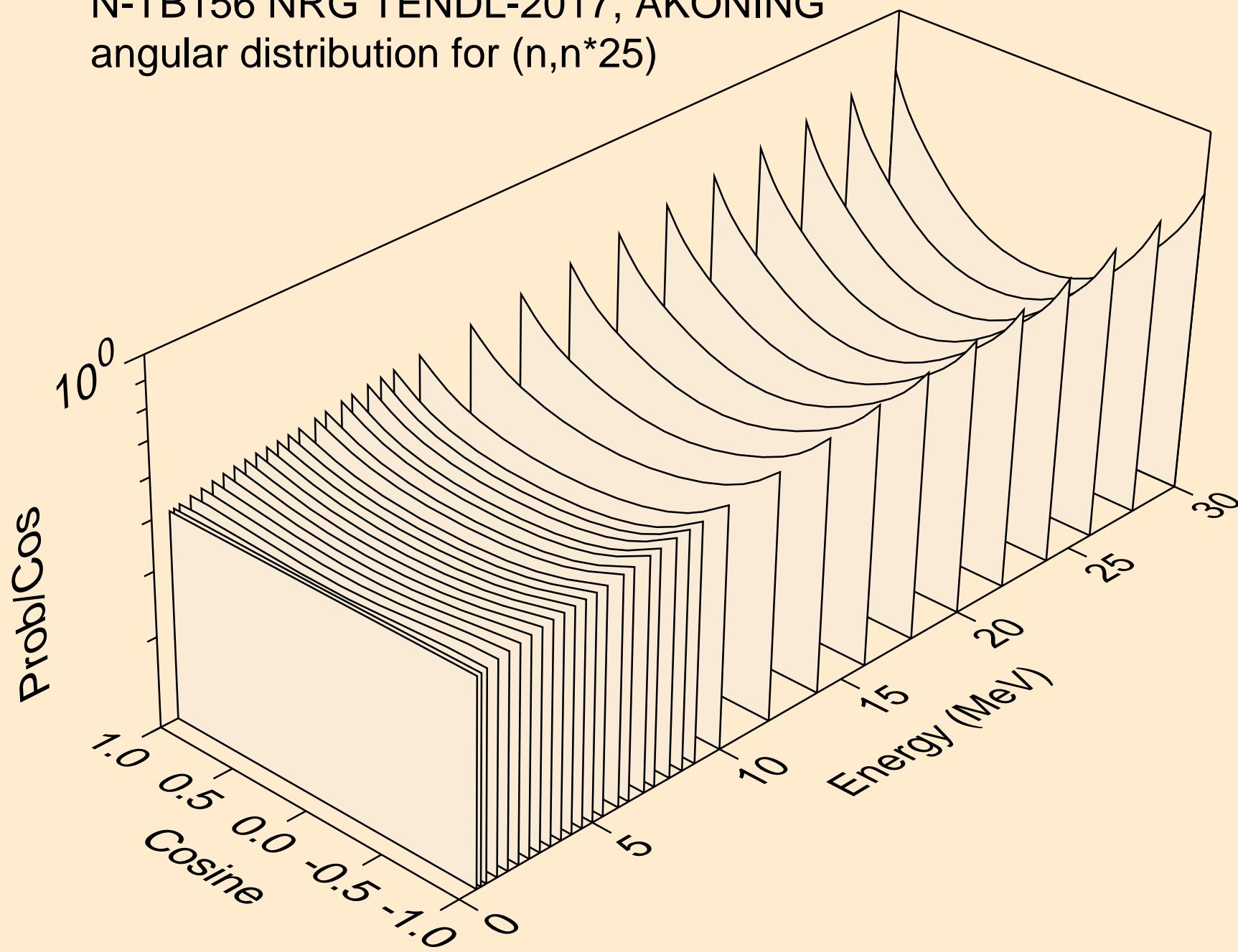
N-TB156 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*)_{23}$



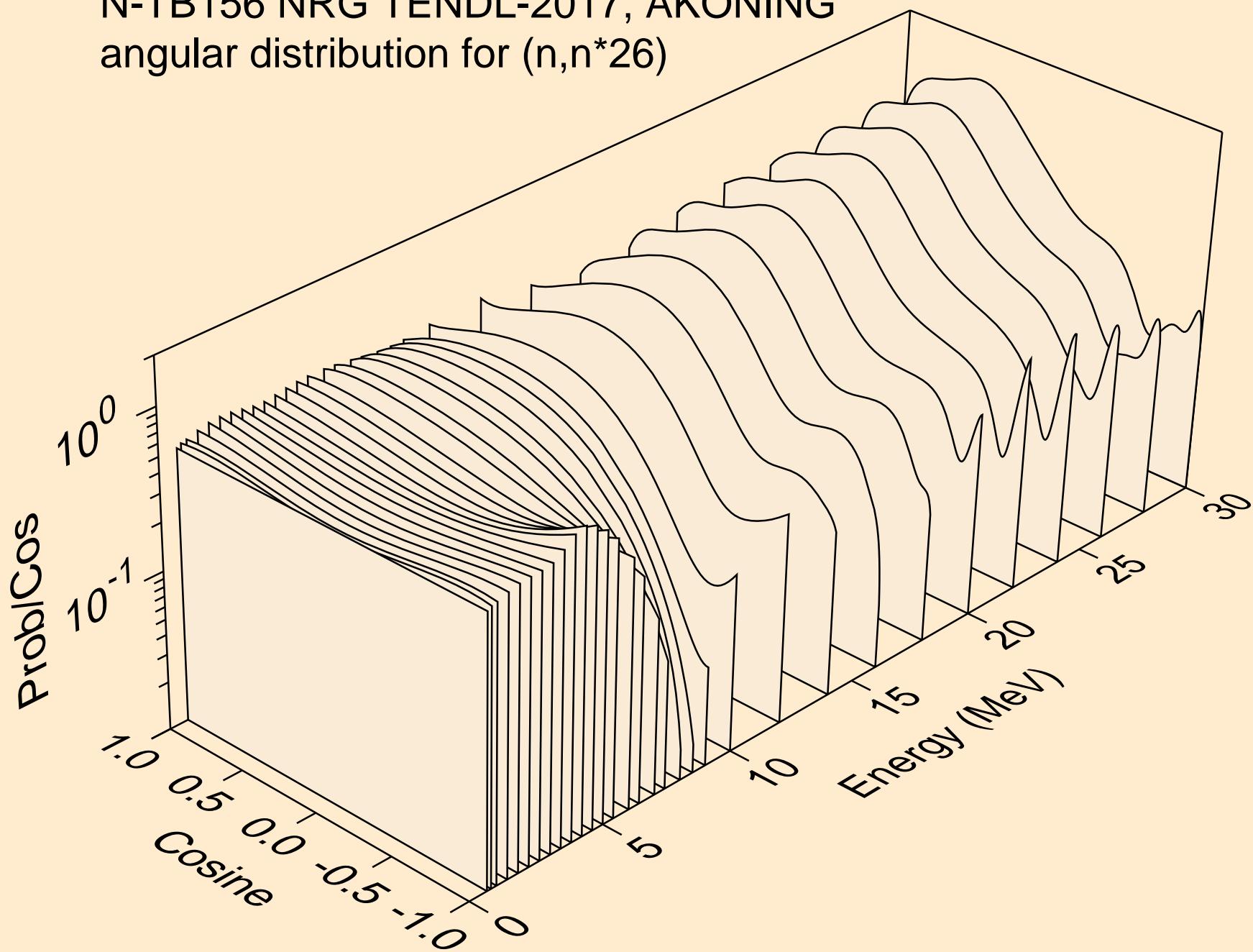
N-TB156 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*)^{24}$



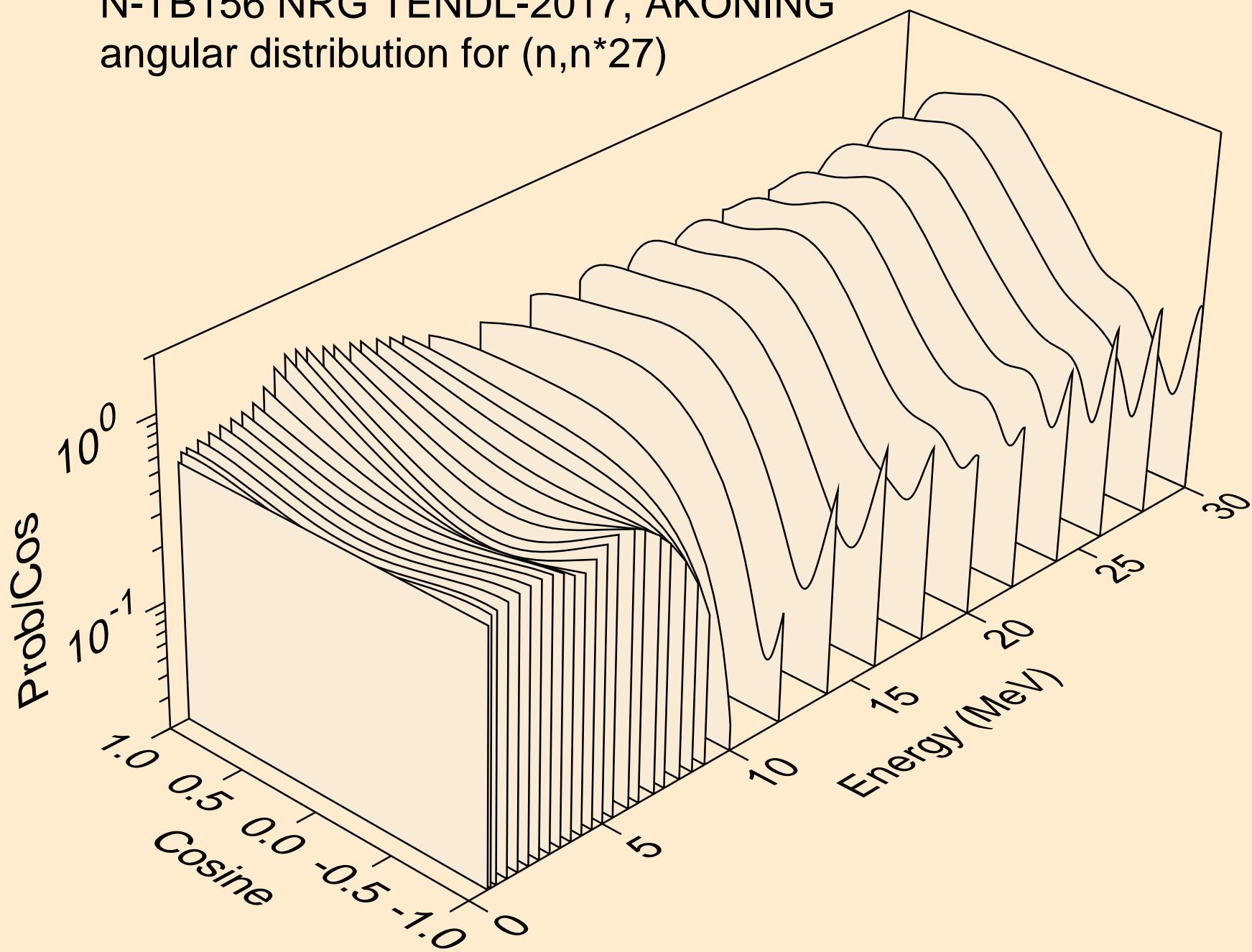
N-TB156 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*)_{25}$



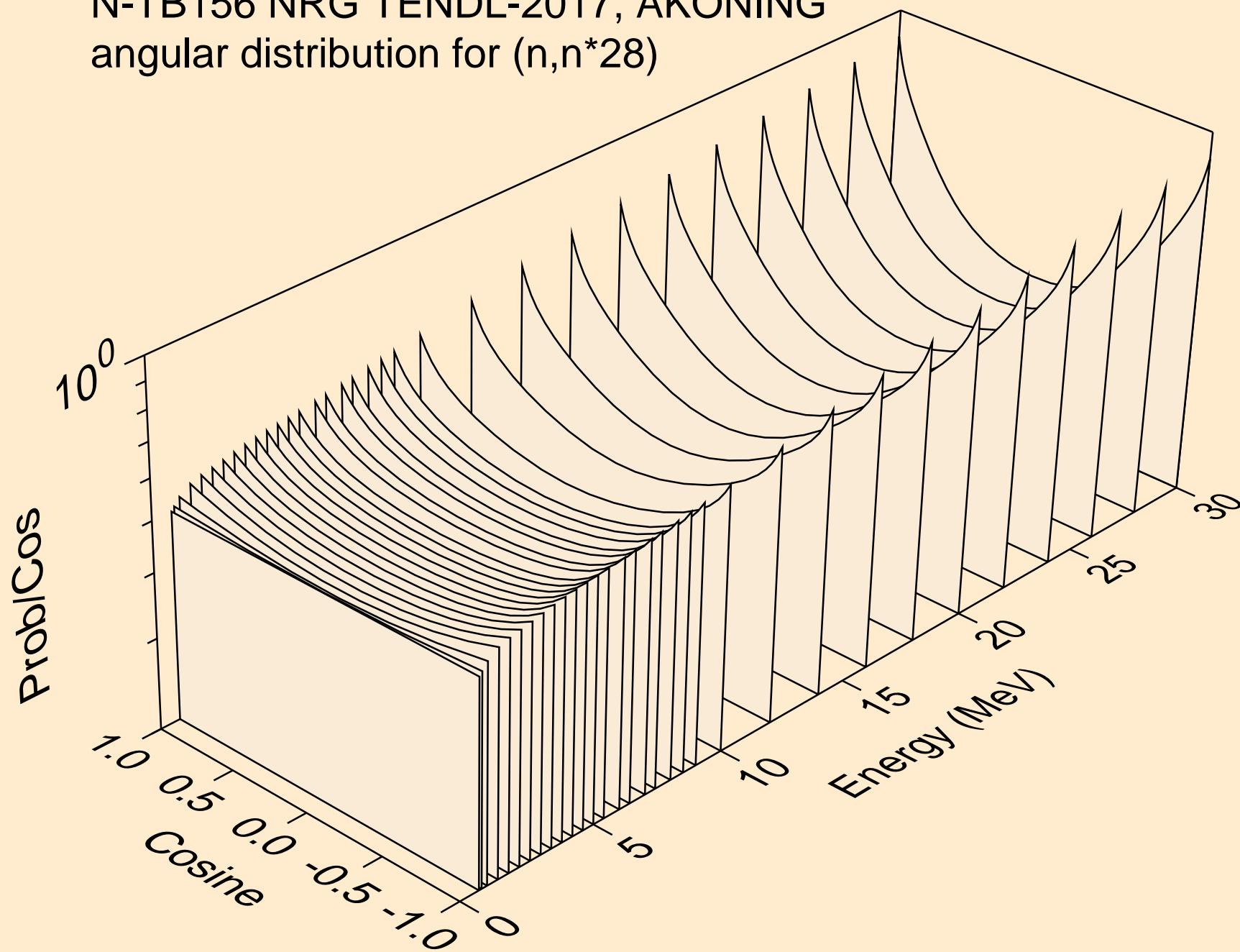
N-TB156 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*)_{26}$



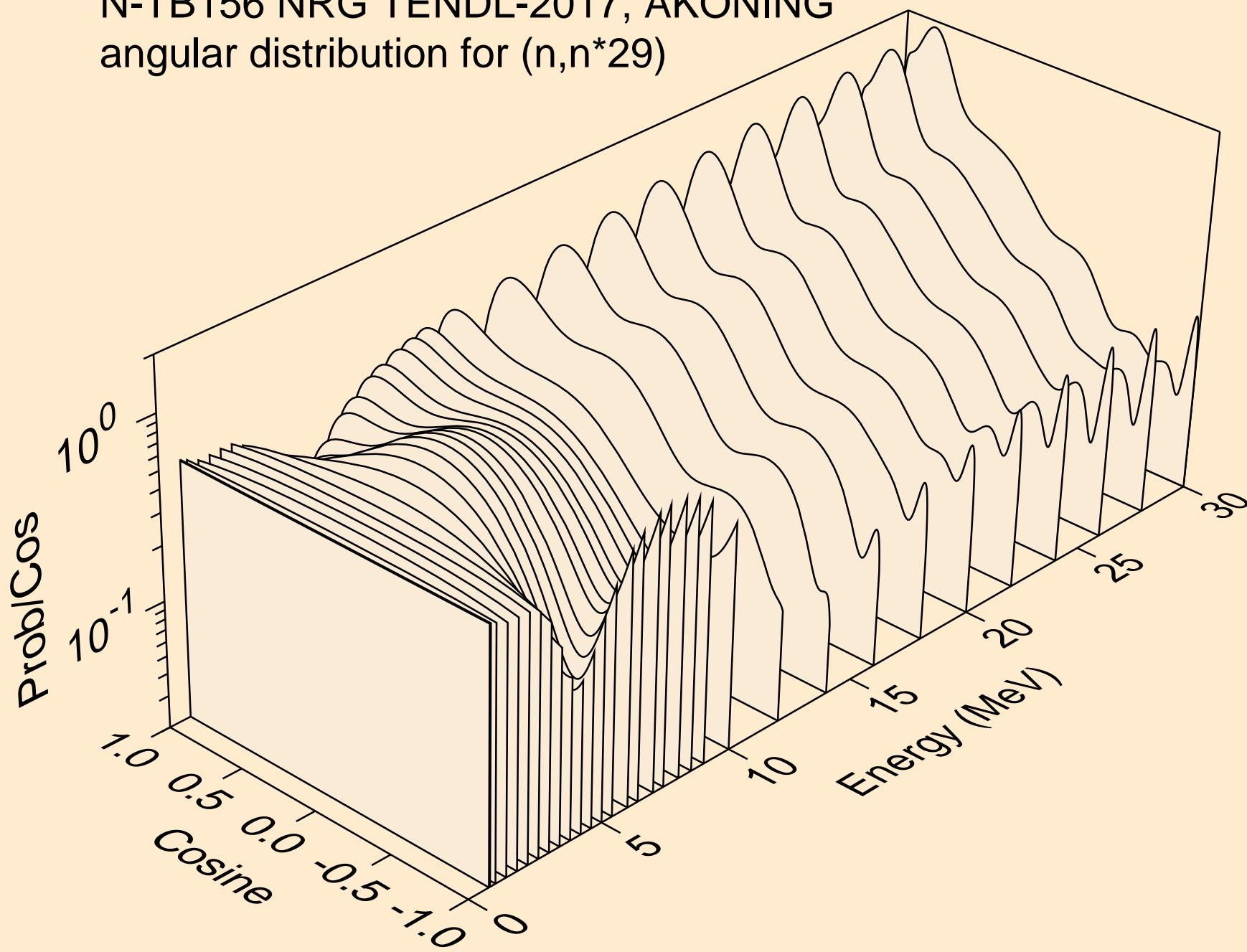
N-TB156 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*)_{27}$



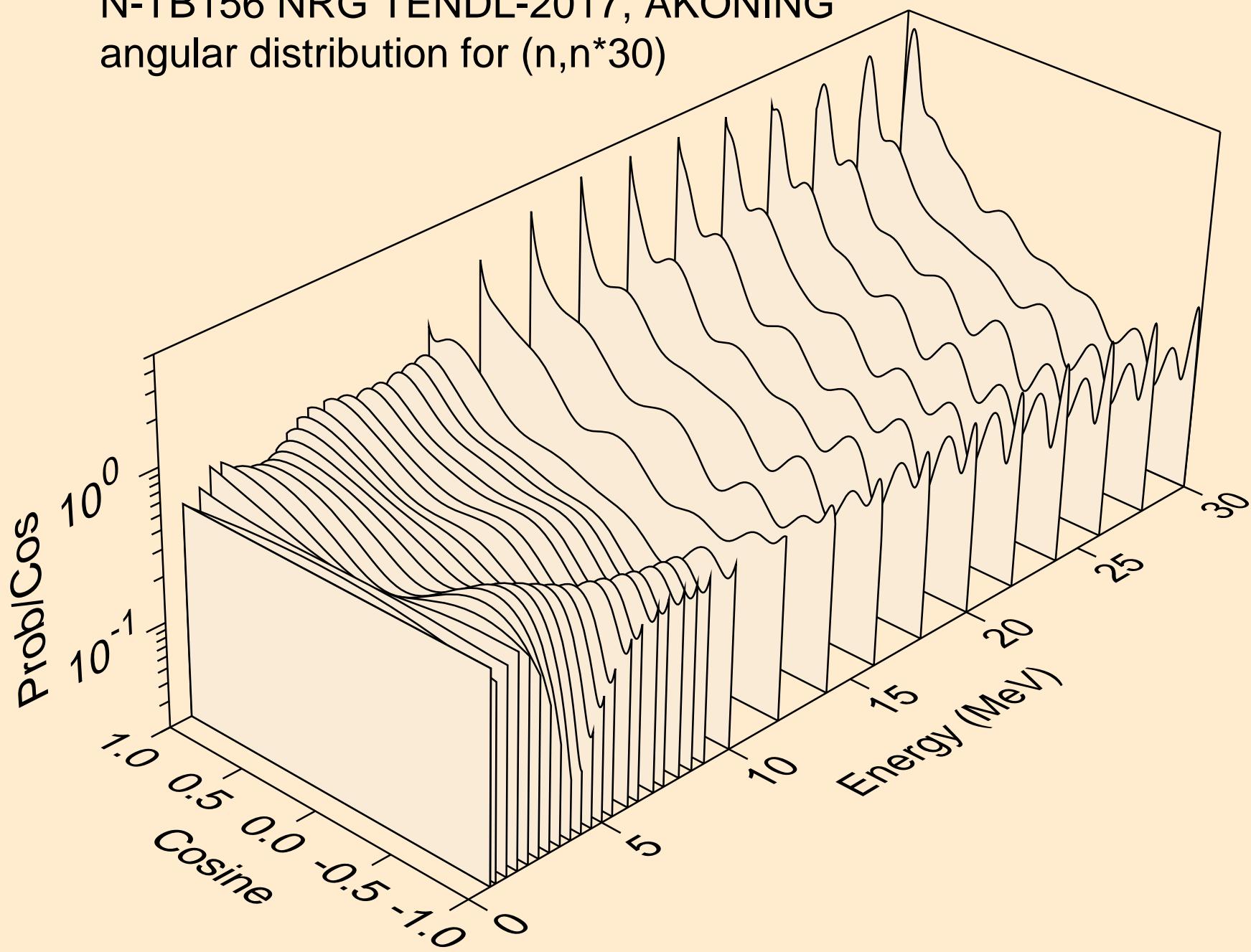
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angular distribution for  $(n,n^*)^{28}$



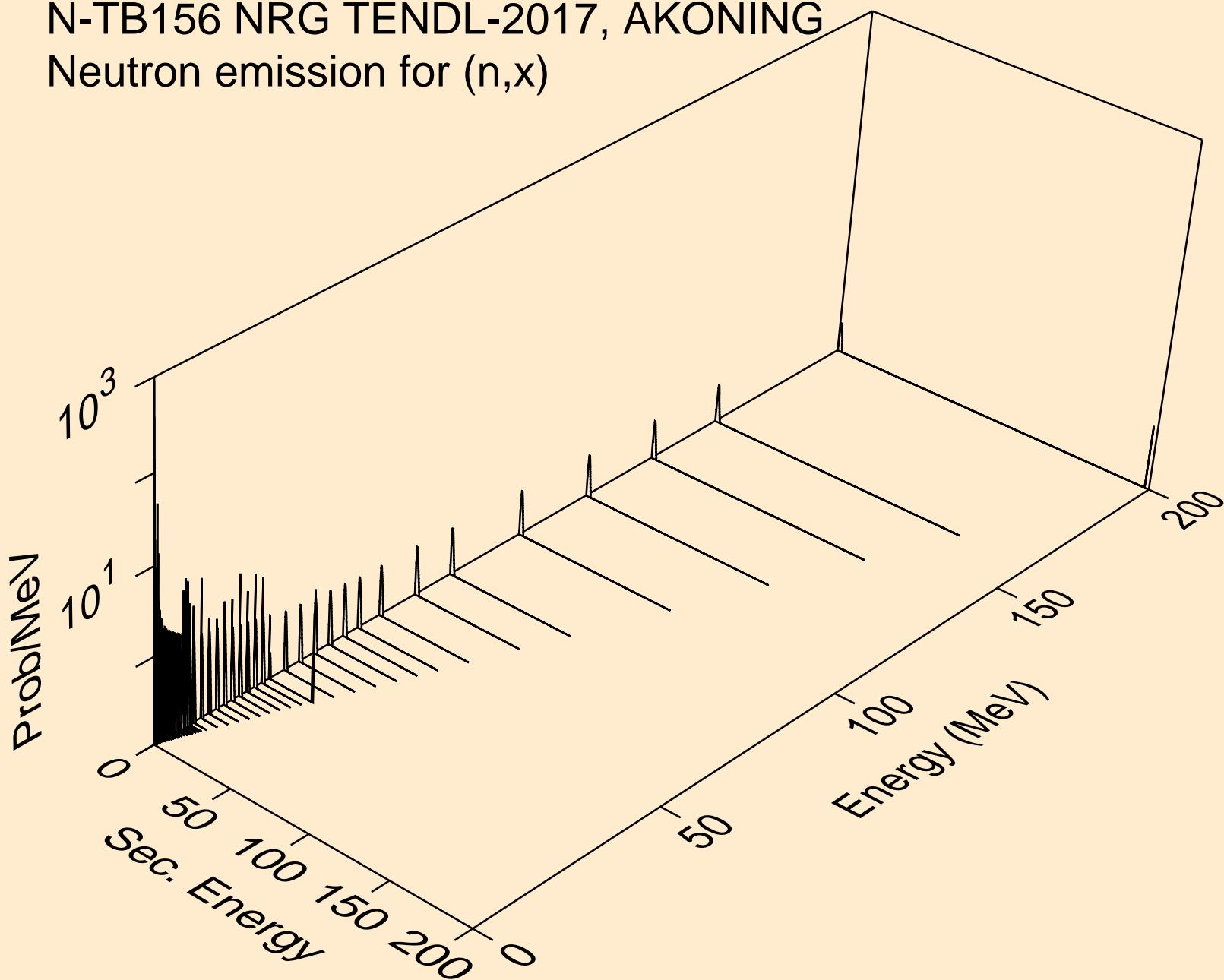
N-TB156 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*29)$



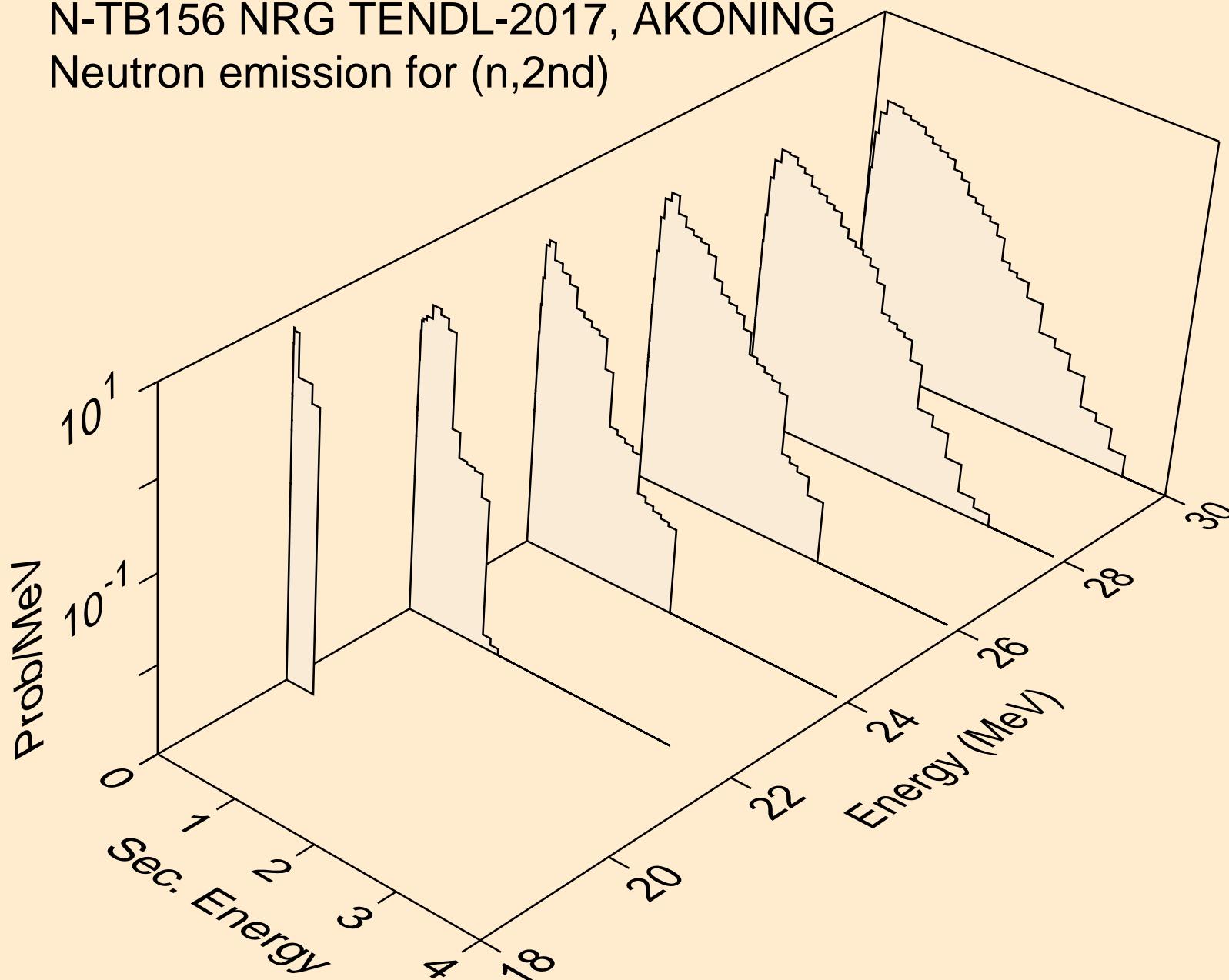
N-TB156 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*)30$



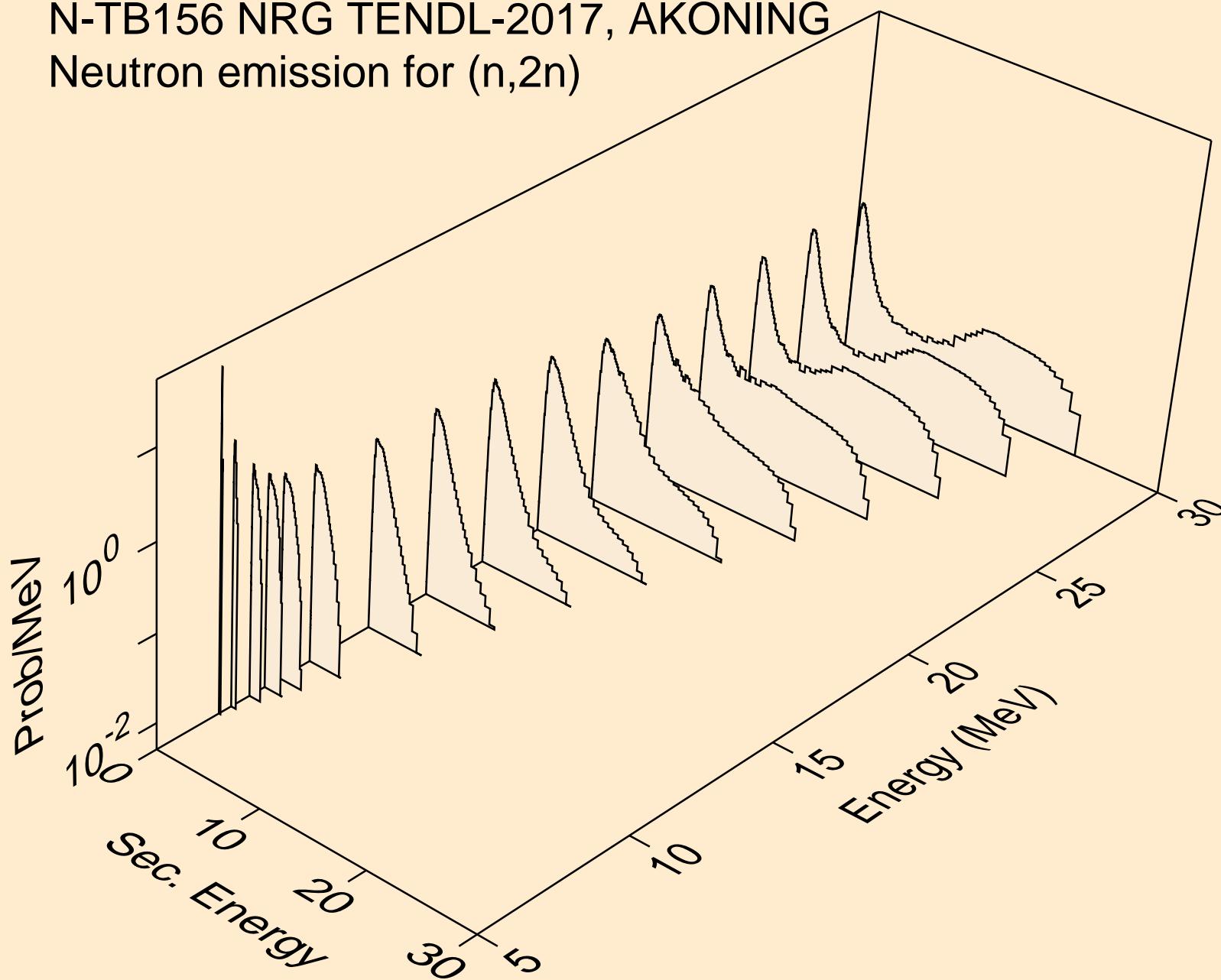
N-TB156 NRG TENDL-2017, AKONING  
Neutron emission for (n,x)



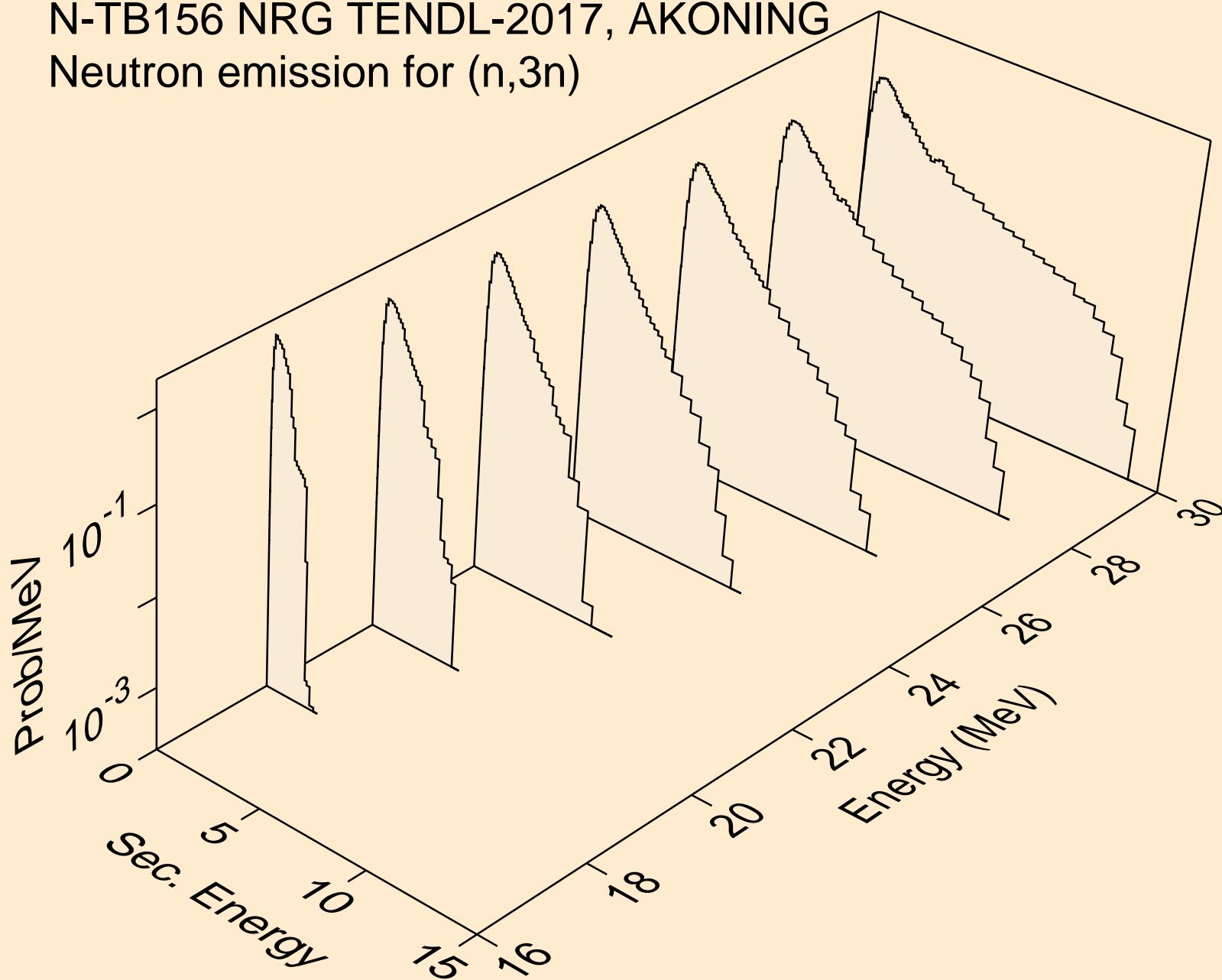
N-TB156 NRG TENDL-2017, AKONING  
Neutron emission for (n,2nd)



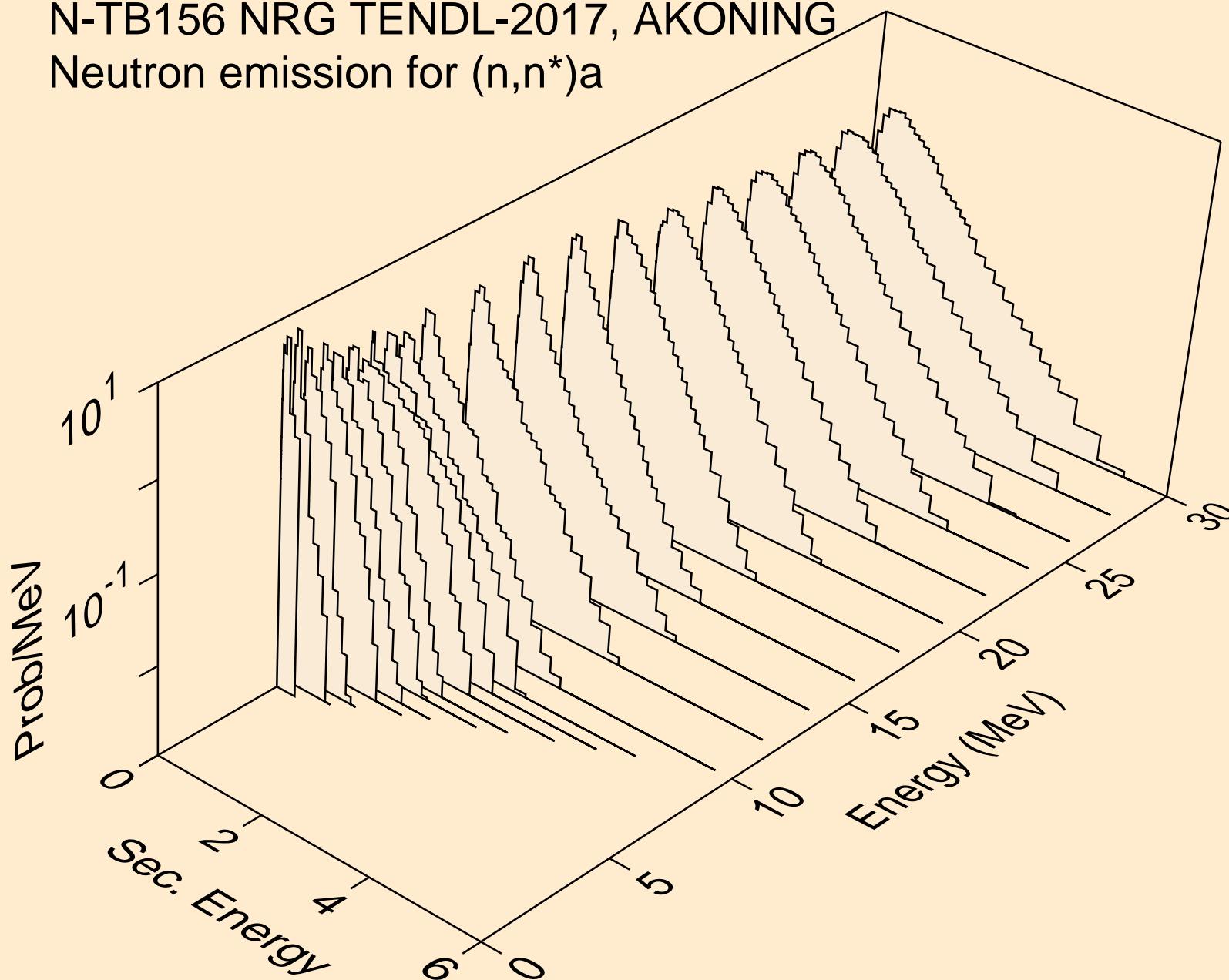
N-TB156 NRG TENDL-2017, AKONING  
Neutron emission for (n,2n)



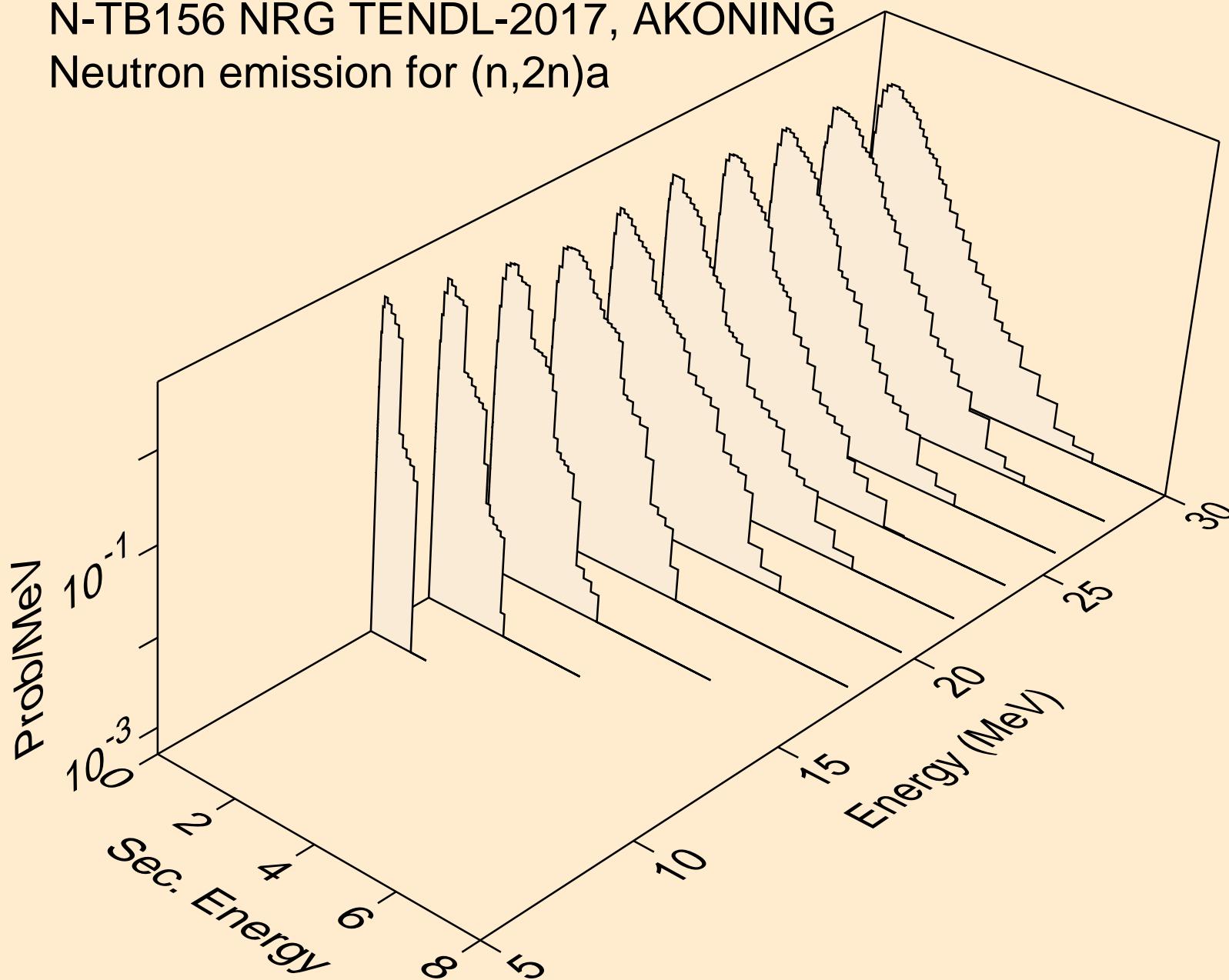
N-TB156 NRG TENDL-2017, AKONING  
Neutron emission for (n,3n)



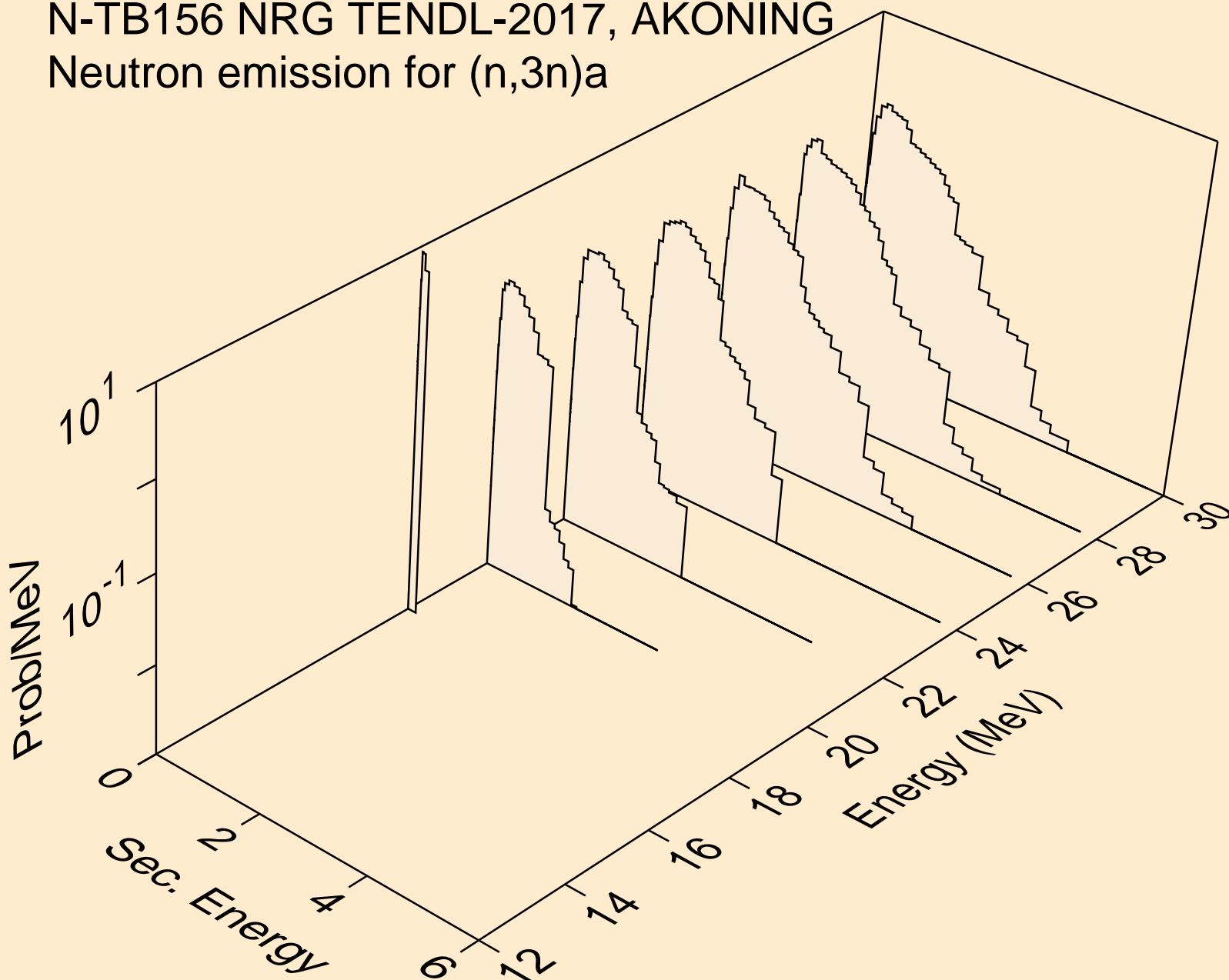
N-TB156 NRG TENDL-2017, AKONING  
Neutron emission for  $(n,n^*)a$



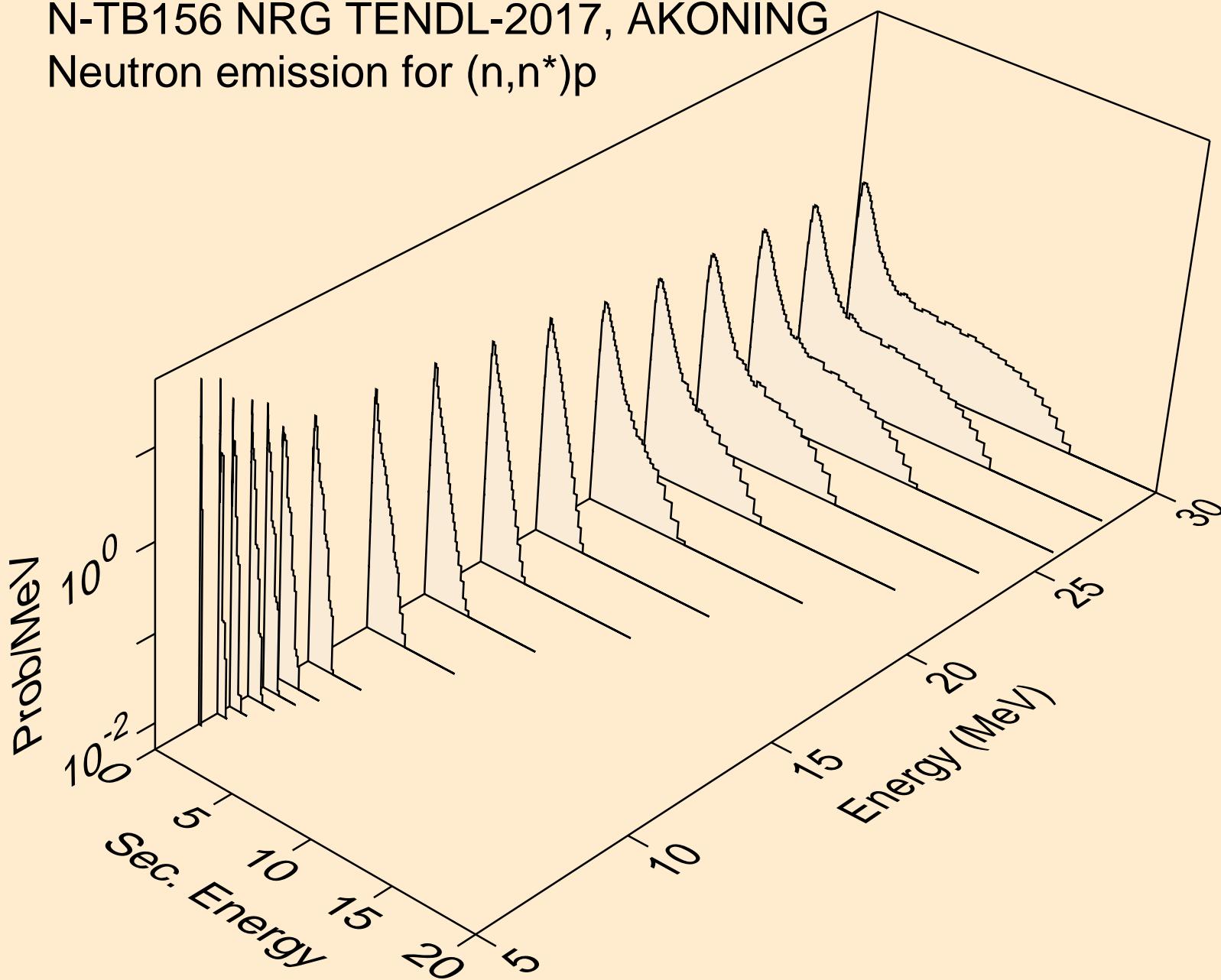
N-TB156 NRG TENDL-2017, AKONING  
Neutron emission for  $(n,2n)a$



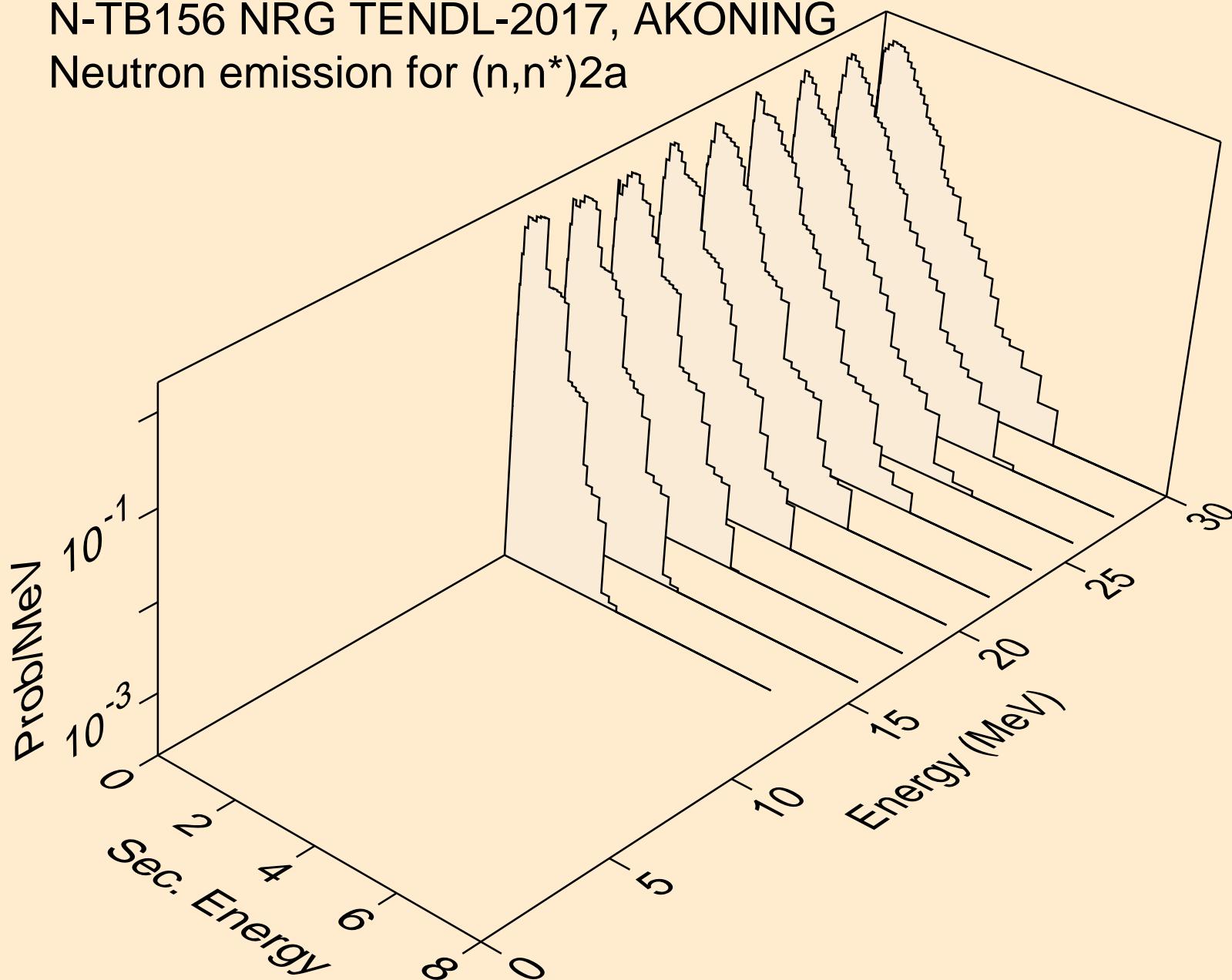
N-TB156 NRG TENDL-2017, AKONING  
Neutron emission for (n,3n)a



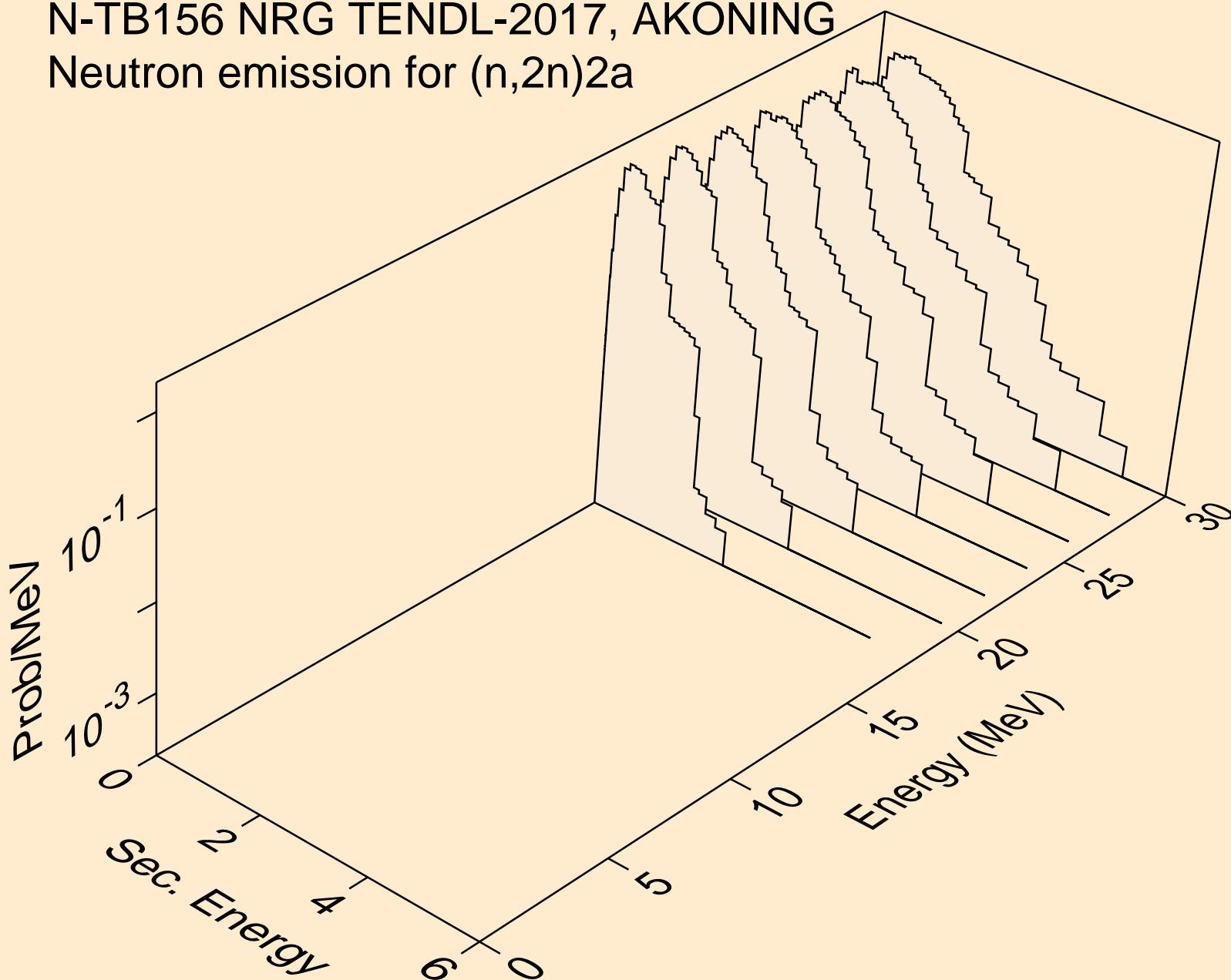
N-TB156 NRG TENDL-2017, AKONING  
Neutron emission for  $(n,n^*)p$



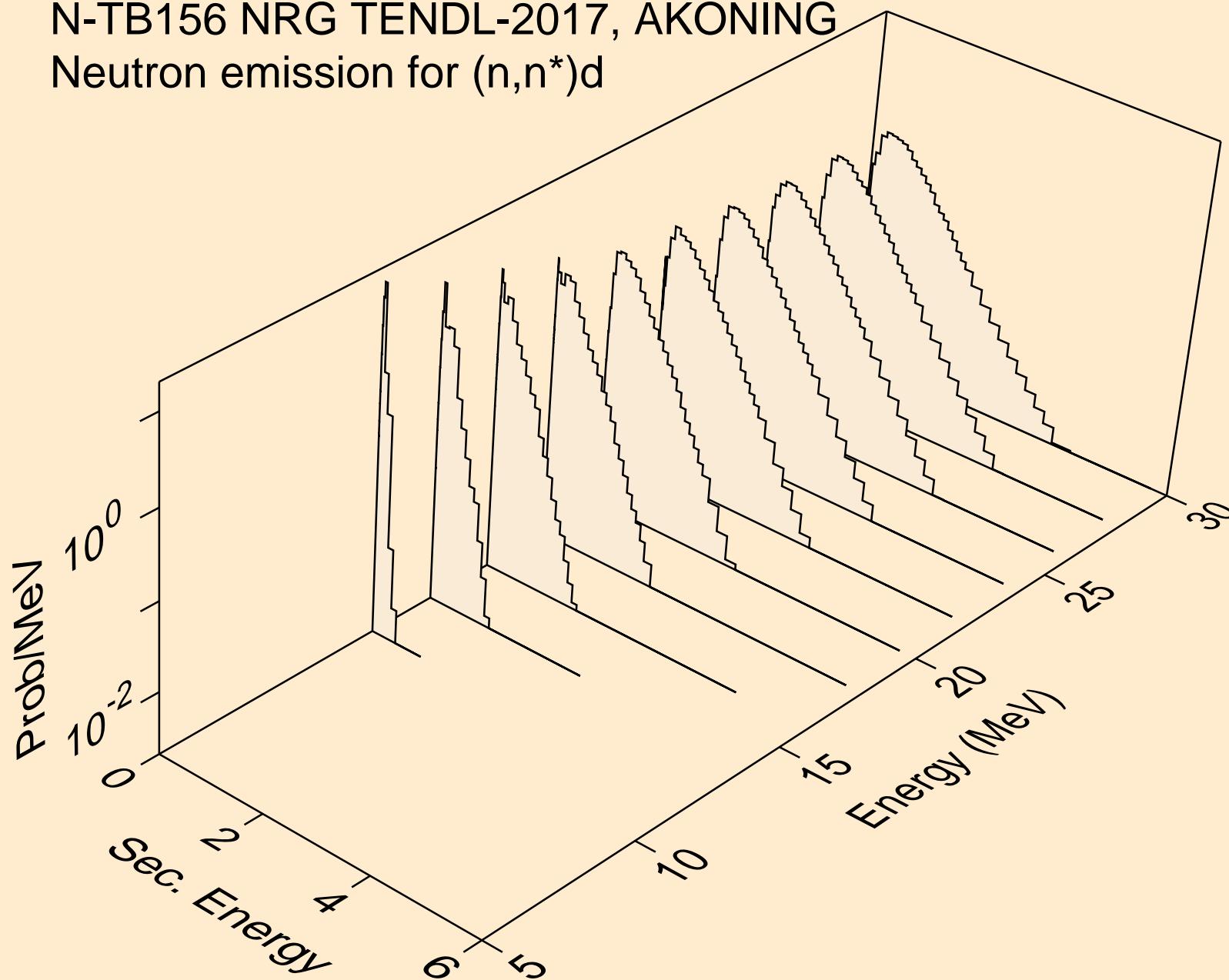
N-TB156 NRG TENDL-2017, AKONING  
Neutron emission for  $(n,n^*)2a$



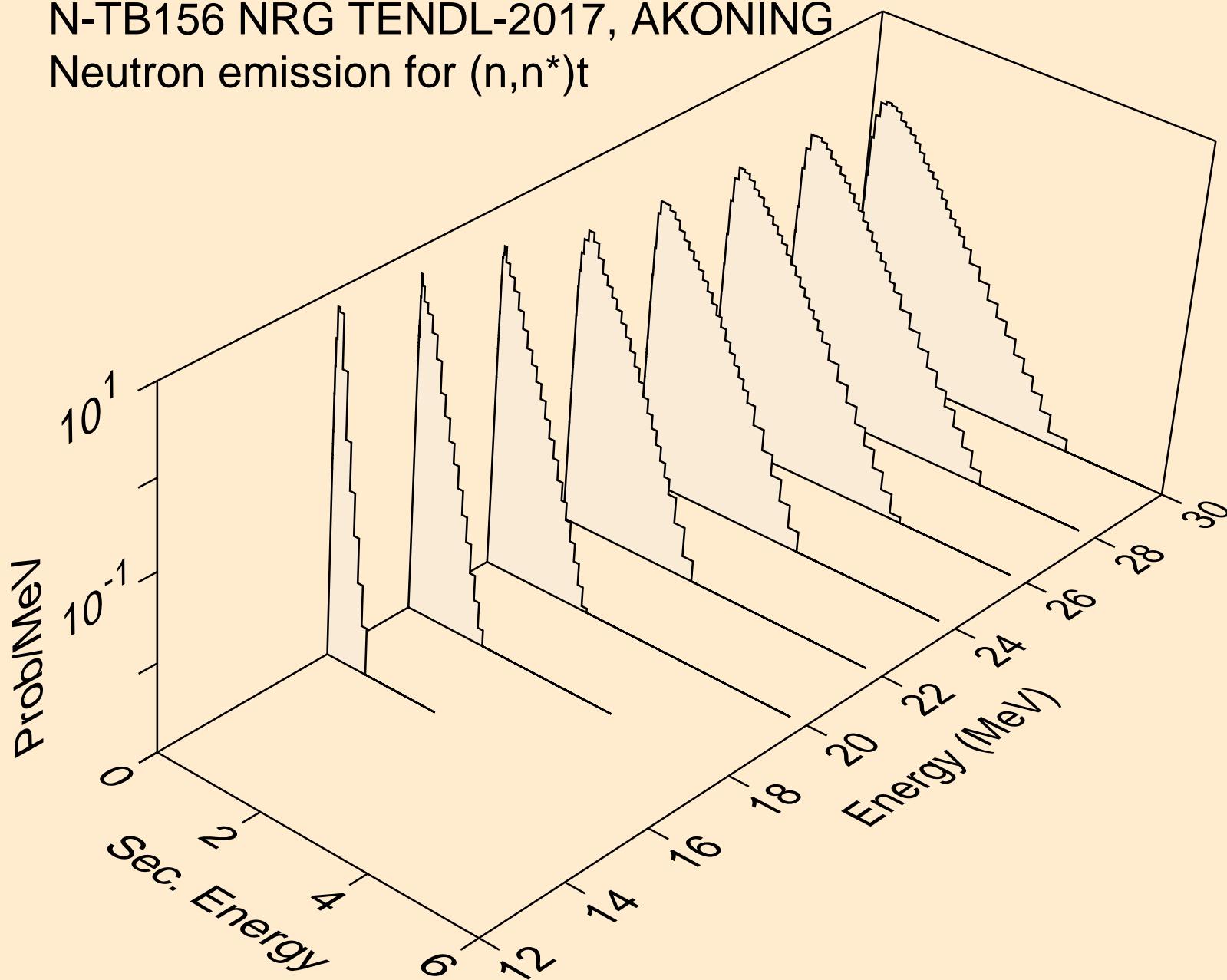
N-TB156 NRG TENDL-2017, AKONING  
Neutron emission for  $(n,2n)2a$



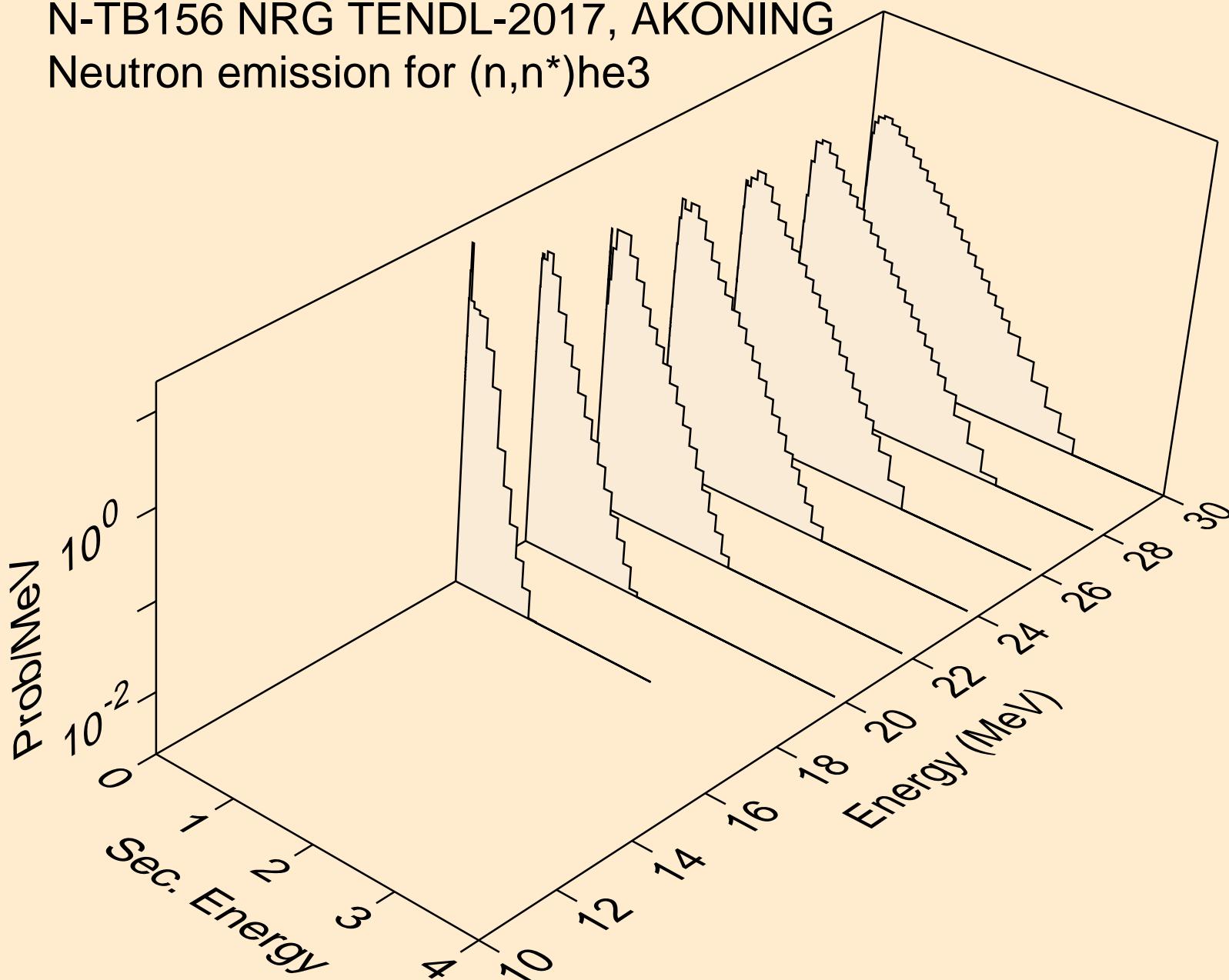
N-TB156 NRG TENDL-2017, AKONING  
Neutron emission for  $(n,n^*)d$



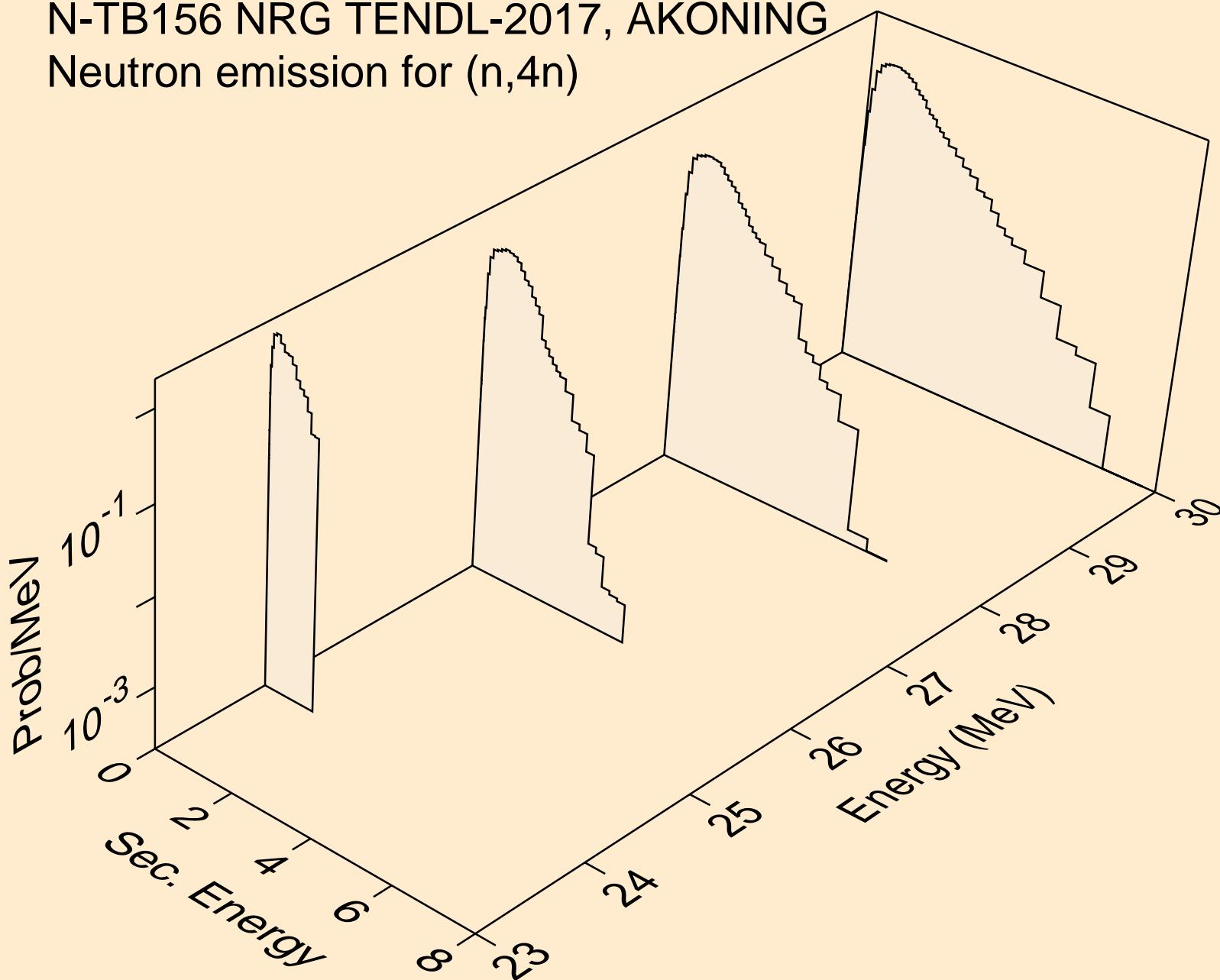
N-TB156 NRG TENDL-2017, AKONING  
Neutron emission for  $(n,n^*)t$



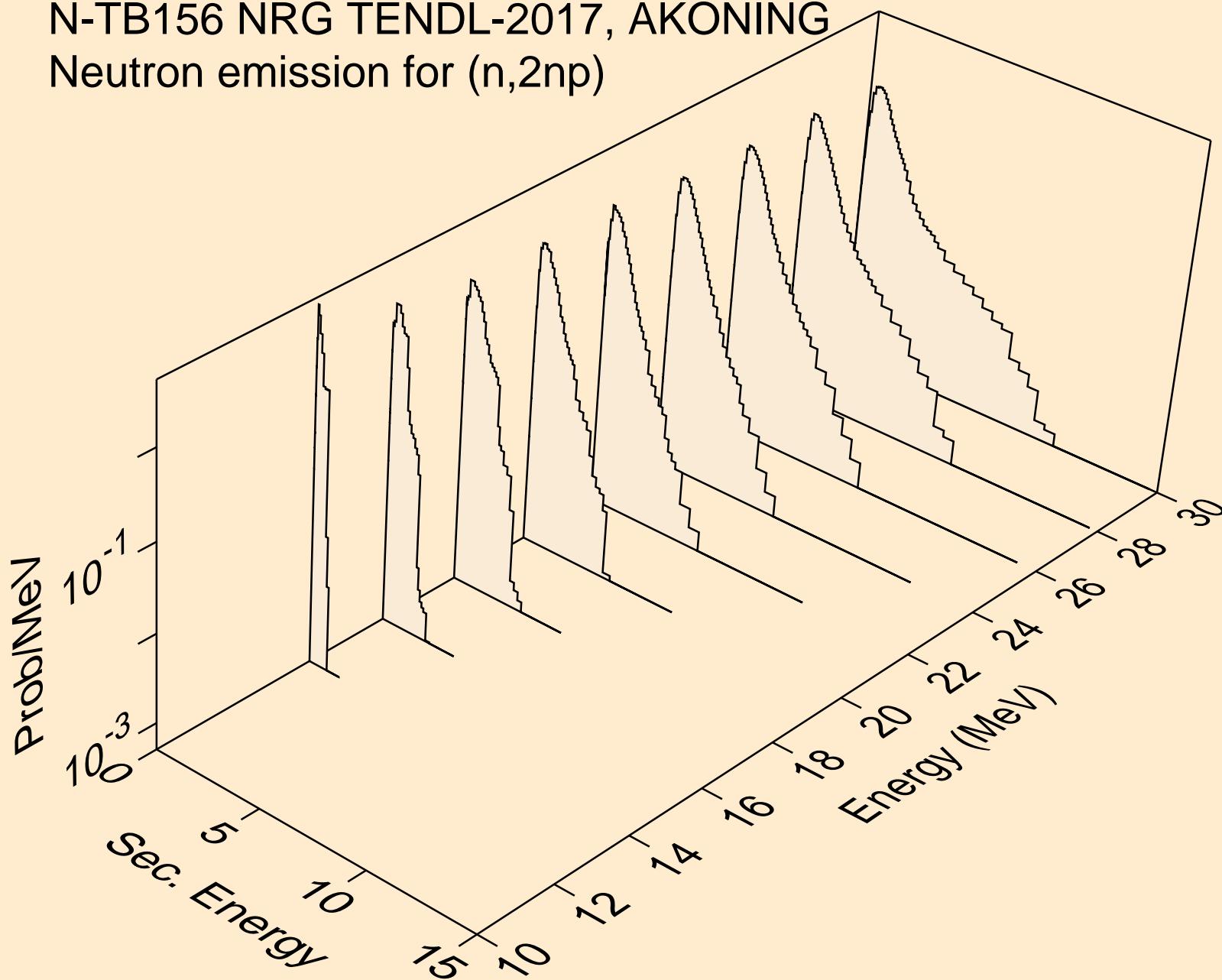
N-TB156 NRG TENDL-2017, AKONING  
Neutron emission for  $(n,n^*)\text{he3}$



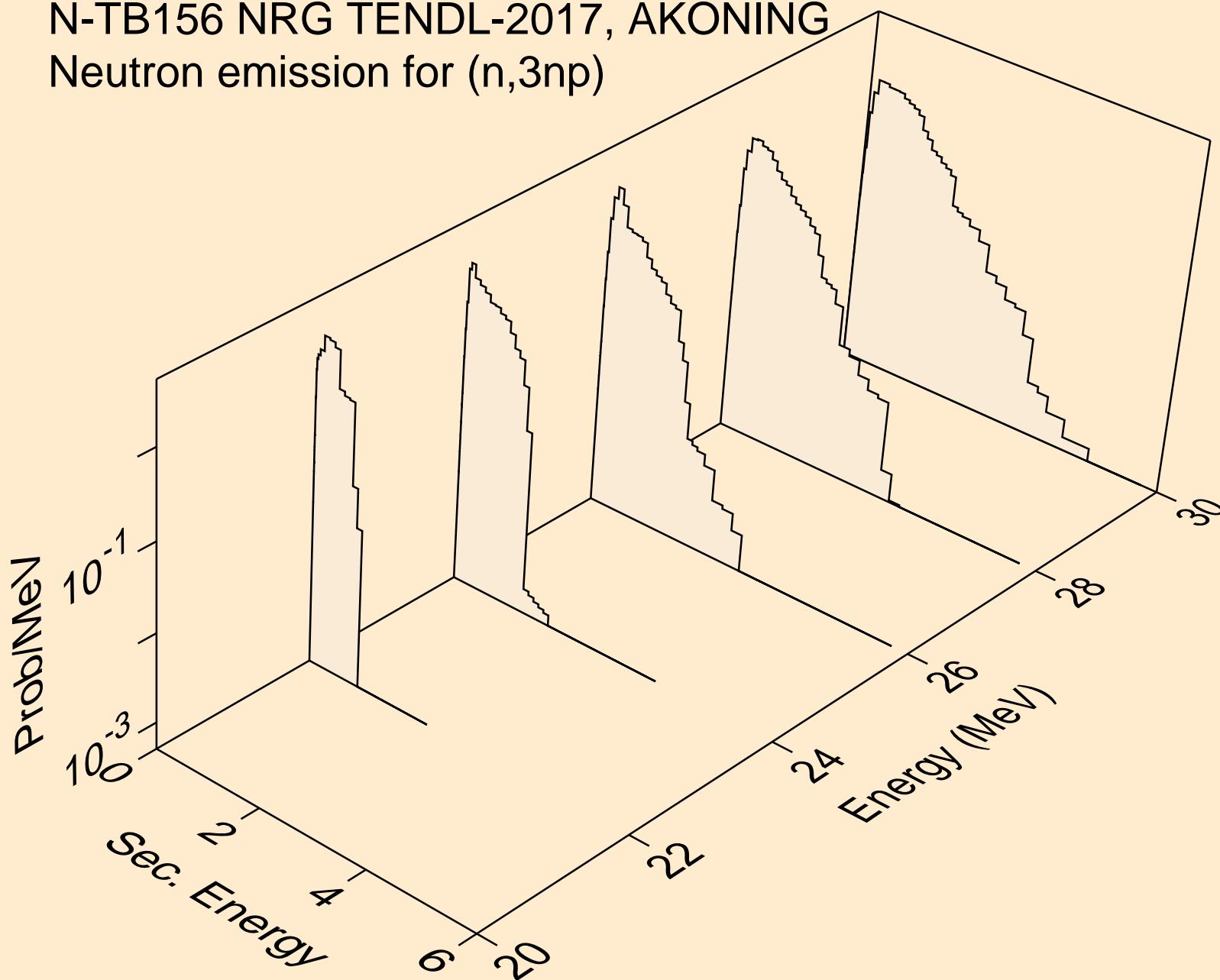
N-TB156 NRG TENDL-2017, AKONING  
Neutron emission for (n,4n)



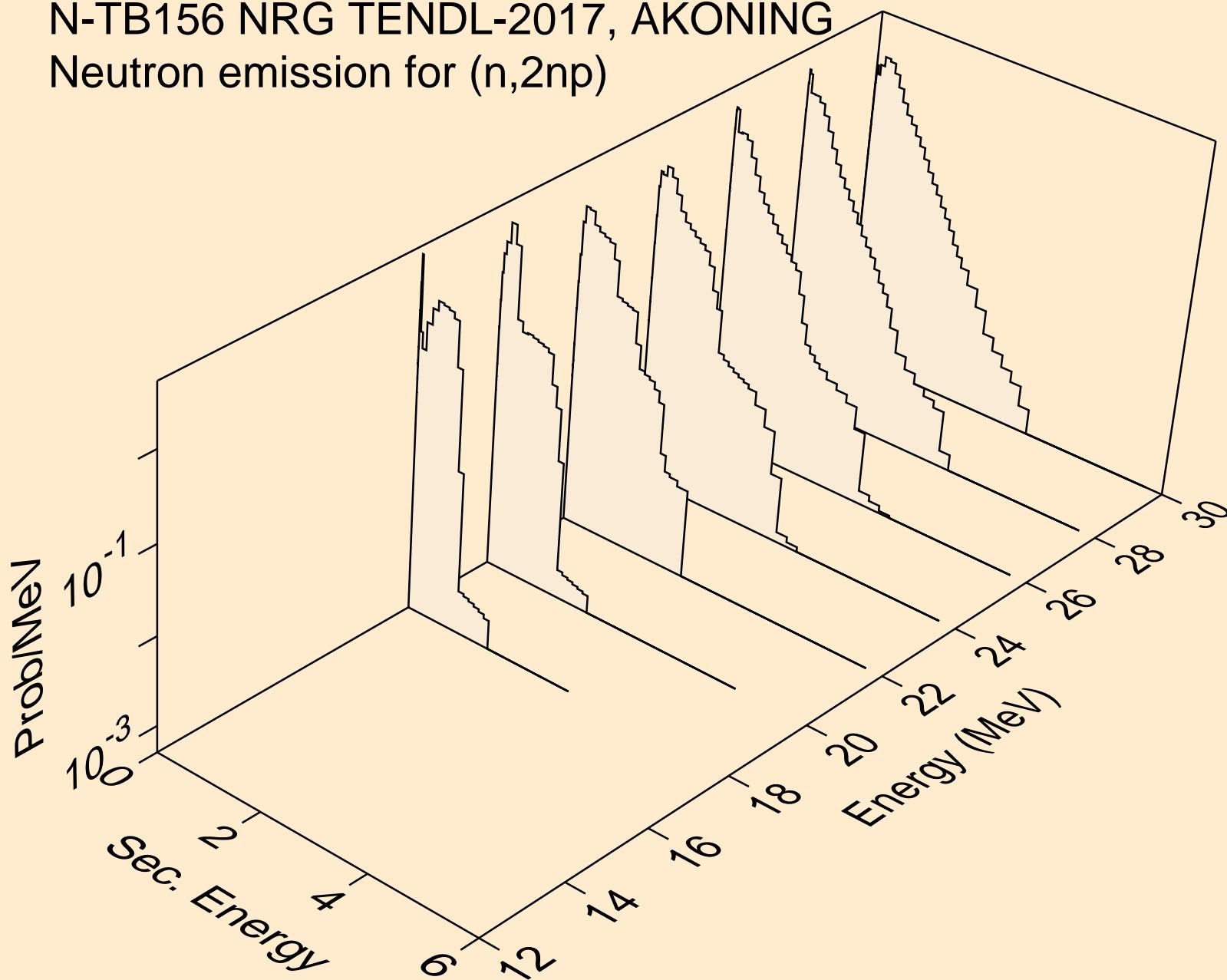
N-TB156 NRG TENDL-2017, AKONING  
Neutron emission for (n,2np)



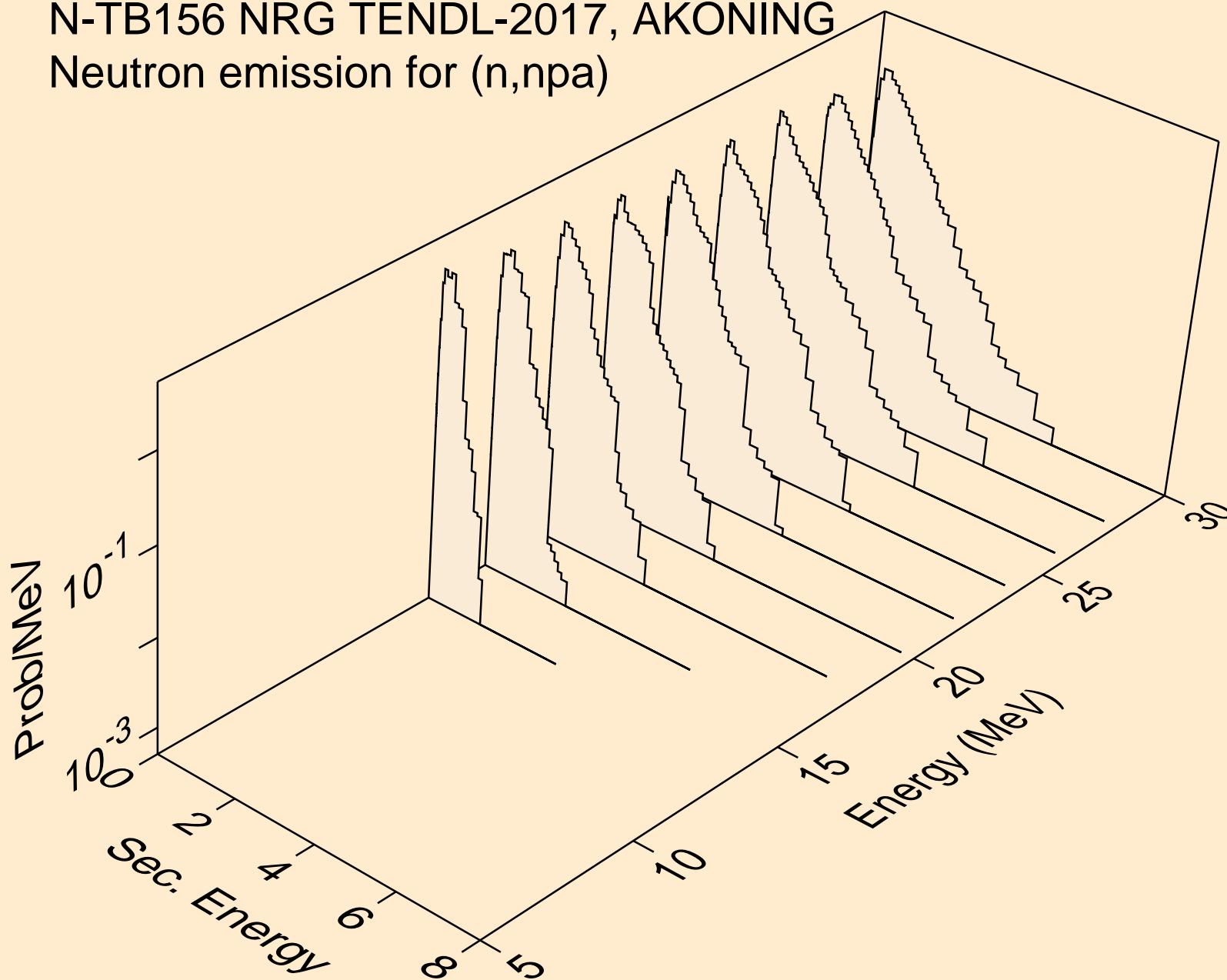
N-TB156 NRG TENDL-2017, AKONING  
Neutron emission for (n,3np)



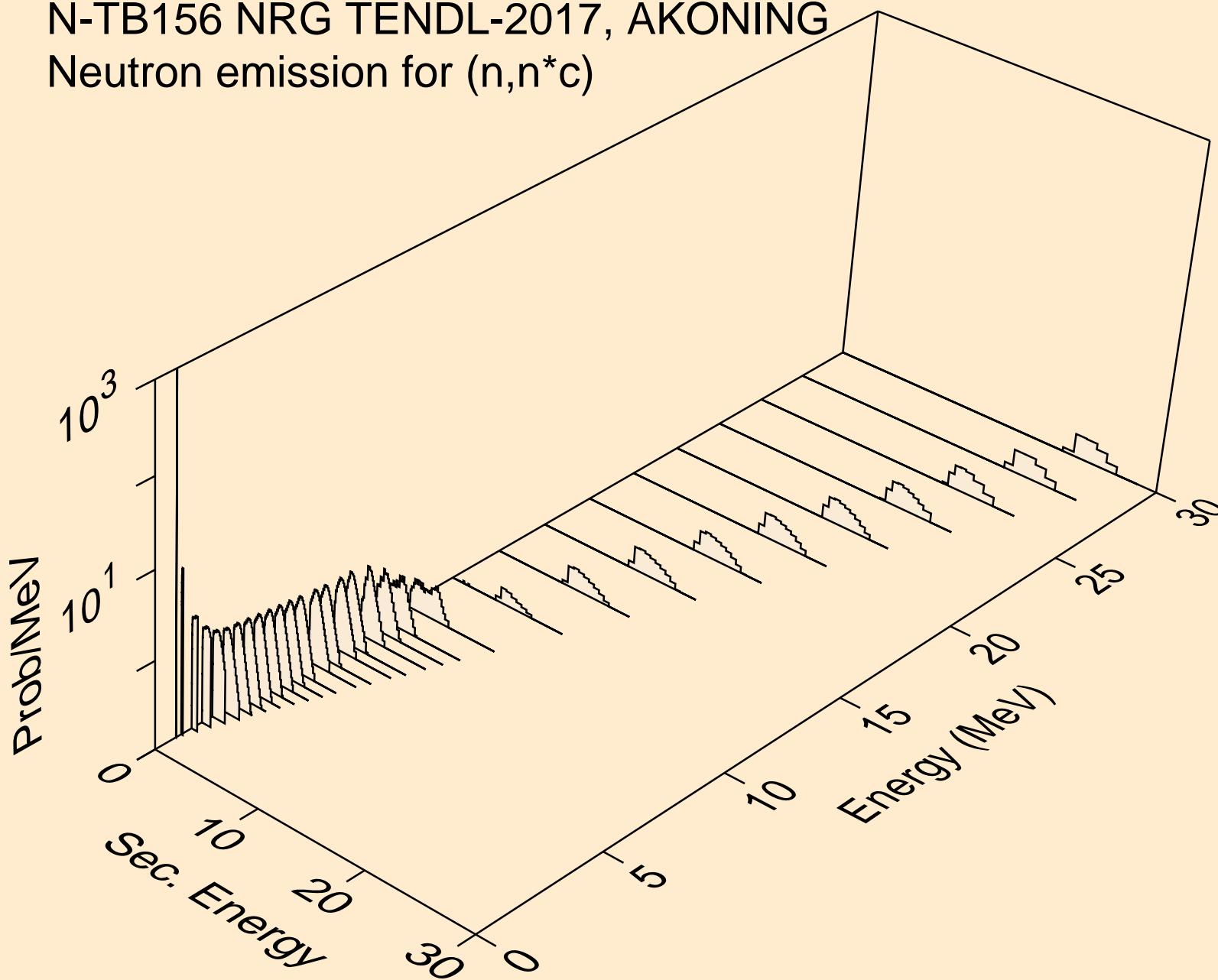
N-TB156 NRG TENDL-2017, AKONING  
Neutron emission for (n,2np)



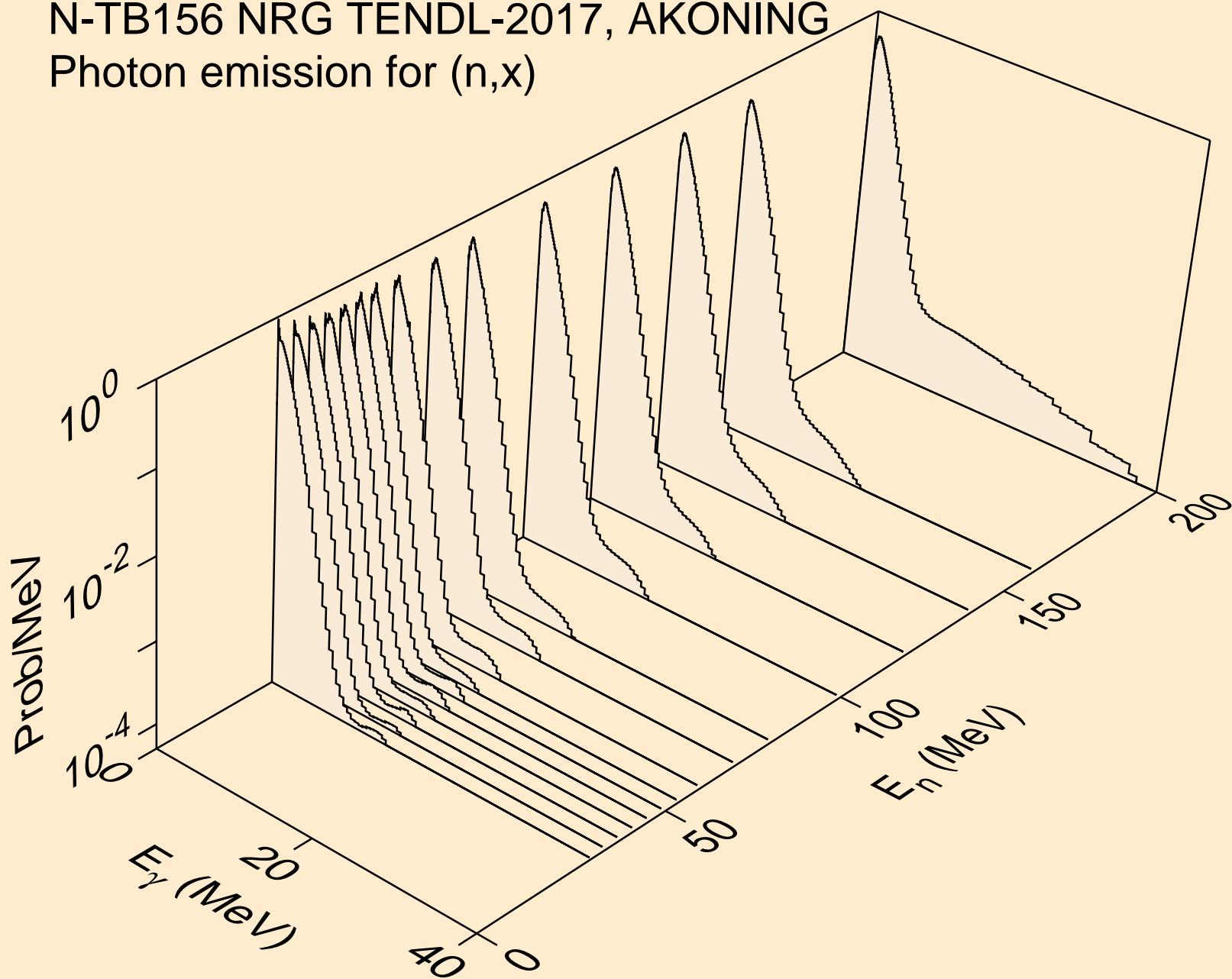
N-TB156 NRG TENDL-2017, AKONING  
Neutron emission for (n,npa)



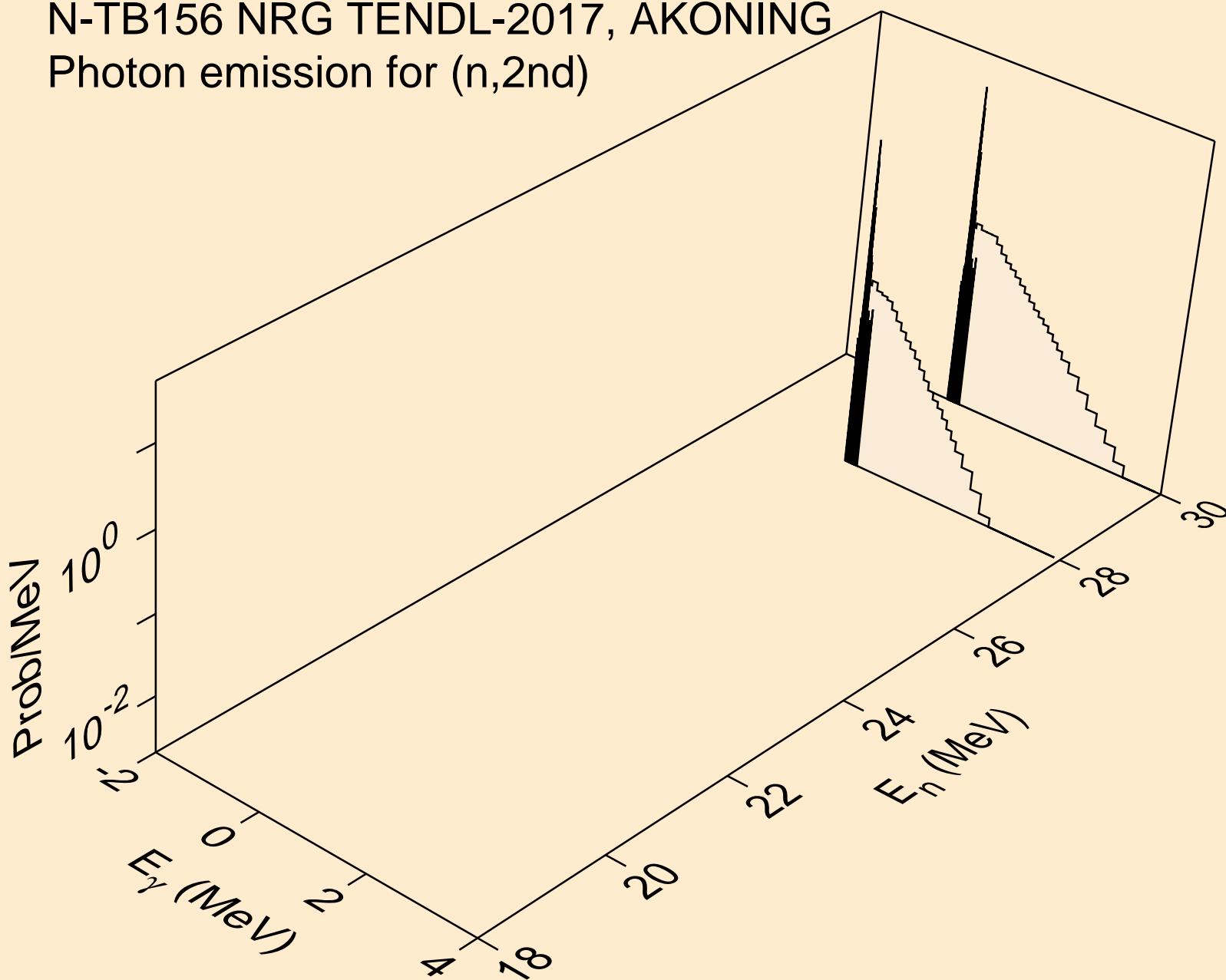
N-TB156 NRG TENDL-2017, AKONING  
Neutron emission for  $(n,n^*c)$



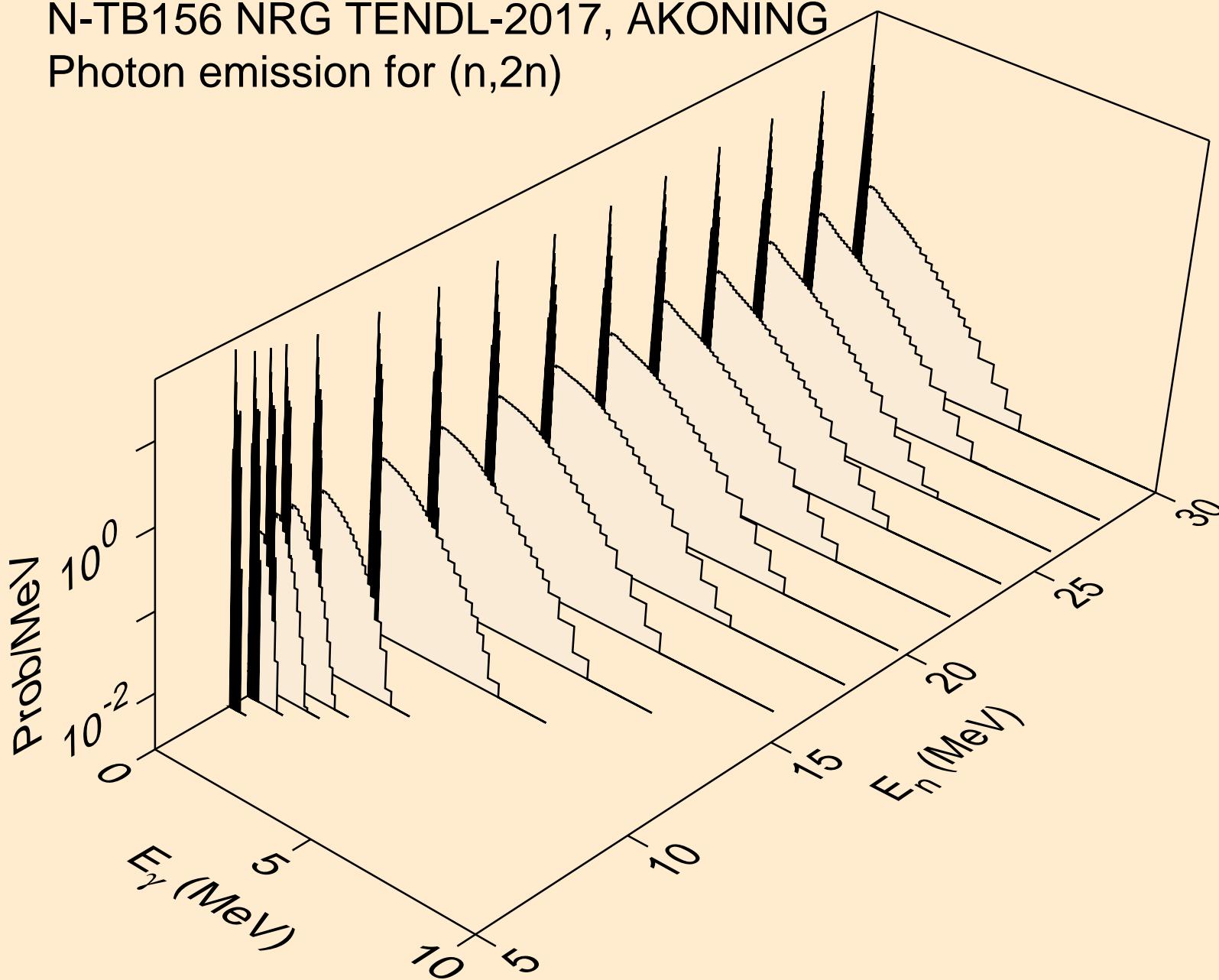
N-TB156 NRG TENDL-2017, AKONING  
Photon emission for (n,x)



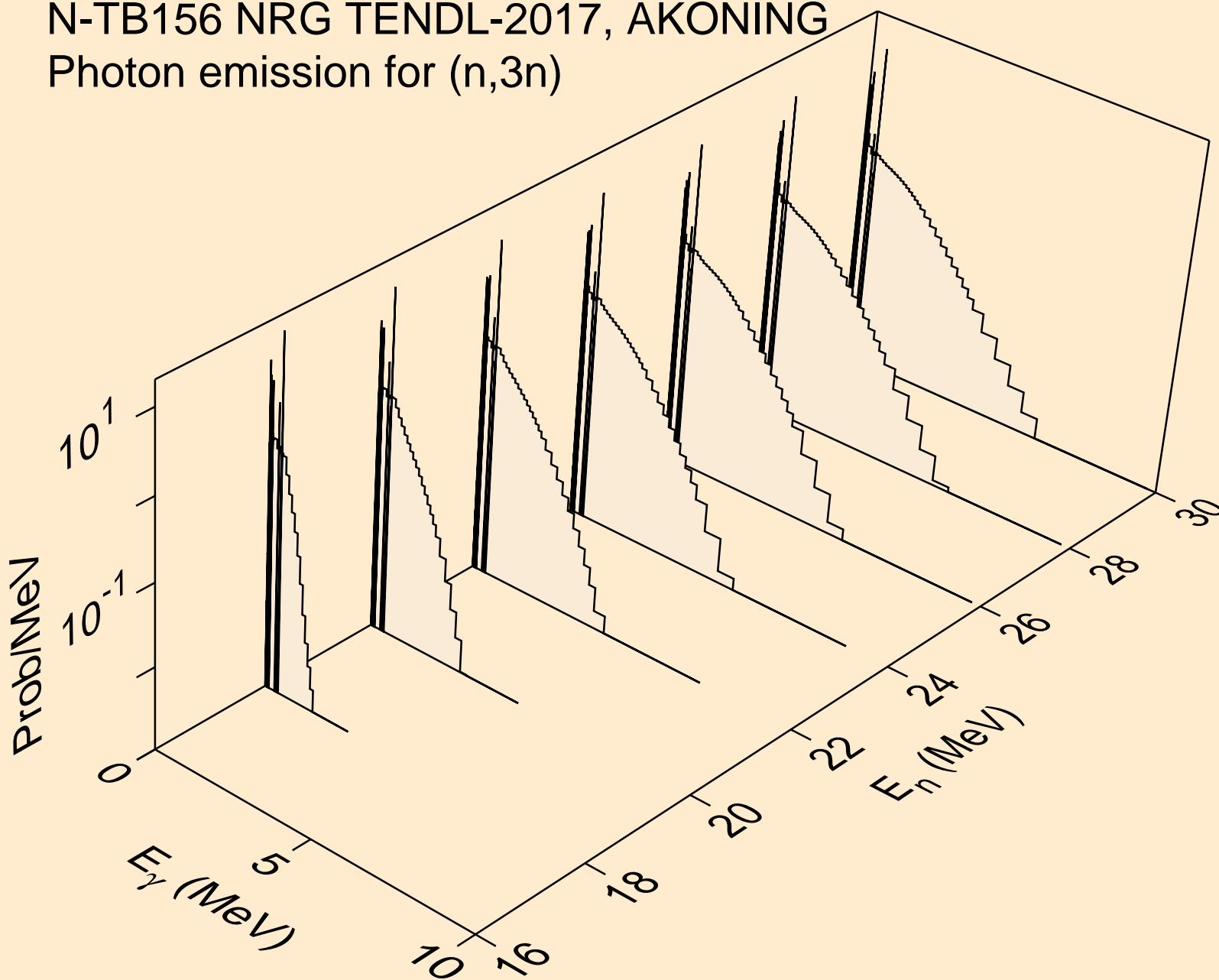
N-TB156 NRG TENDL-2017, AKONING  
Photon emission for (n,2nd)



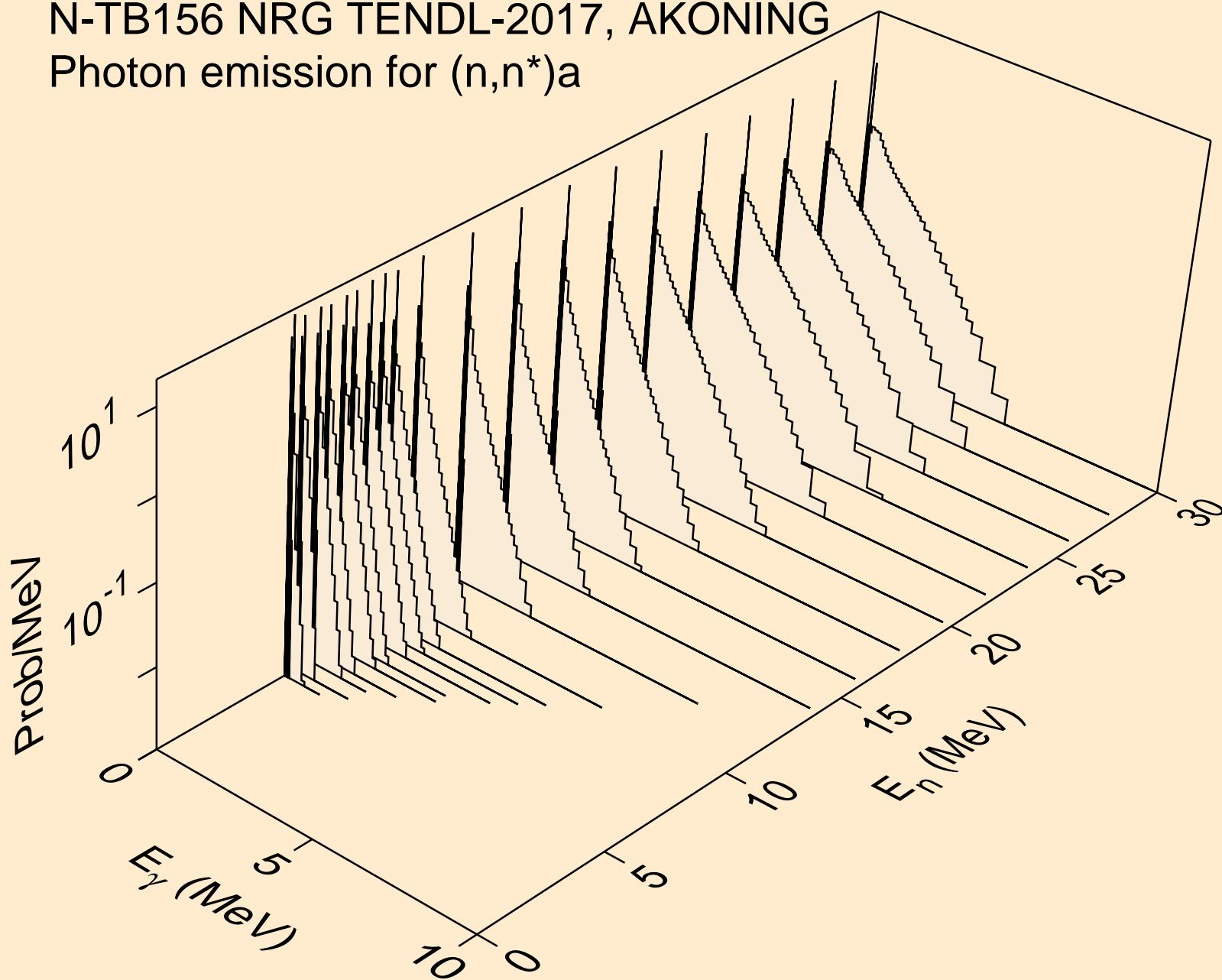
N-TB156 NRG TENDL-2017, AKONING  
Photon emission for (n,2n)



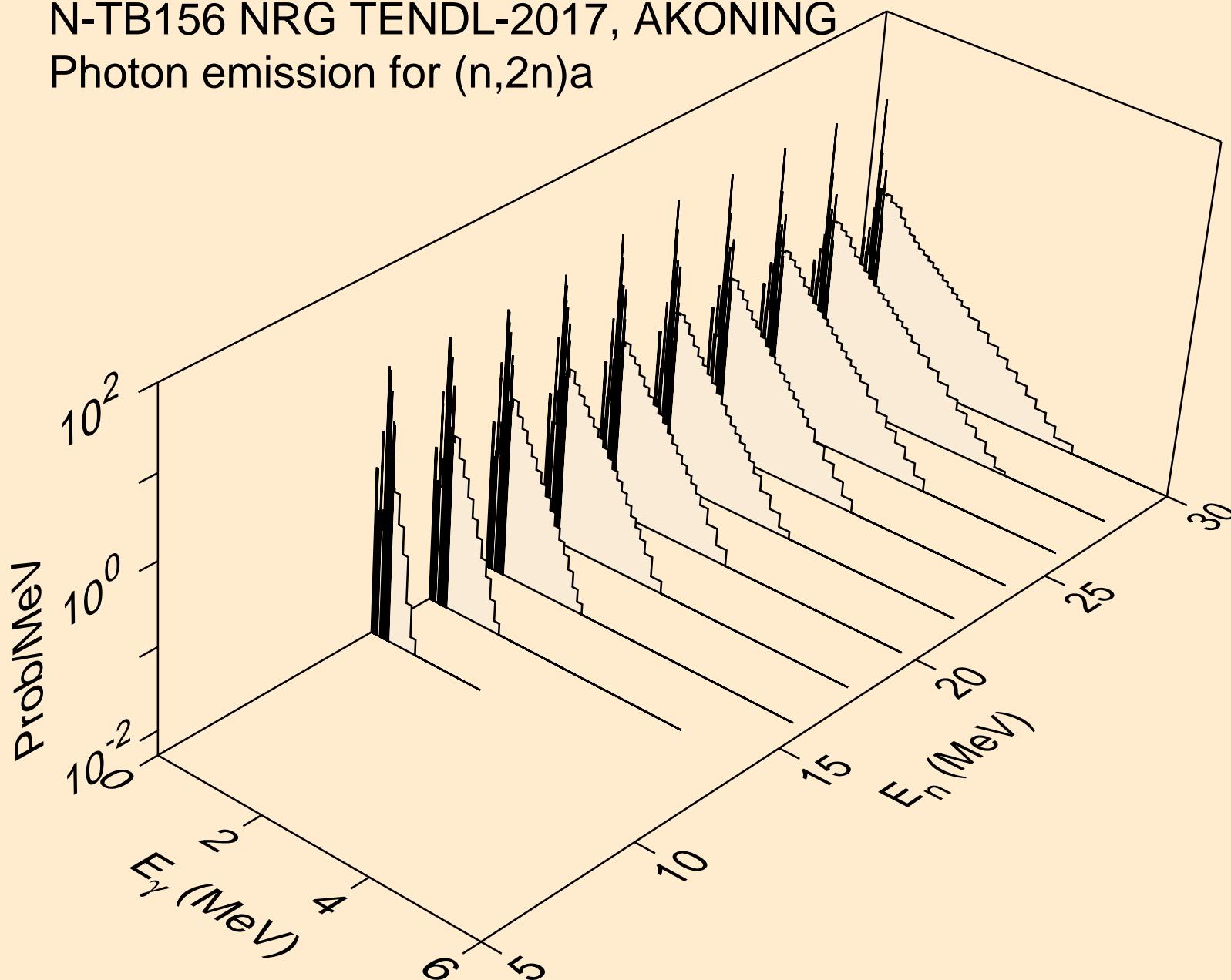
N-TB156 NRG TENDL-2017, AKONING  
Photon emission for (n,3n)



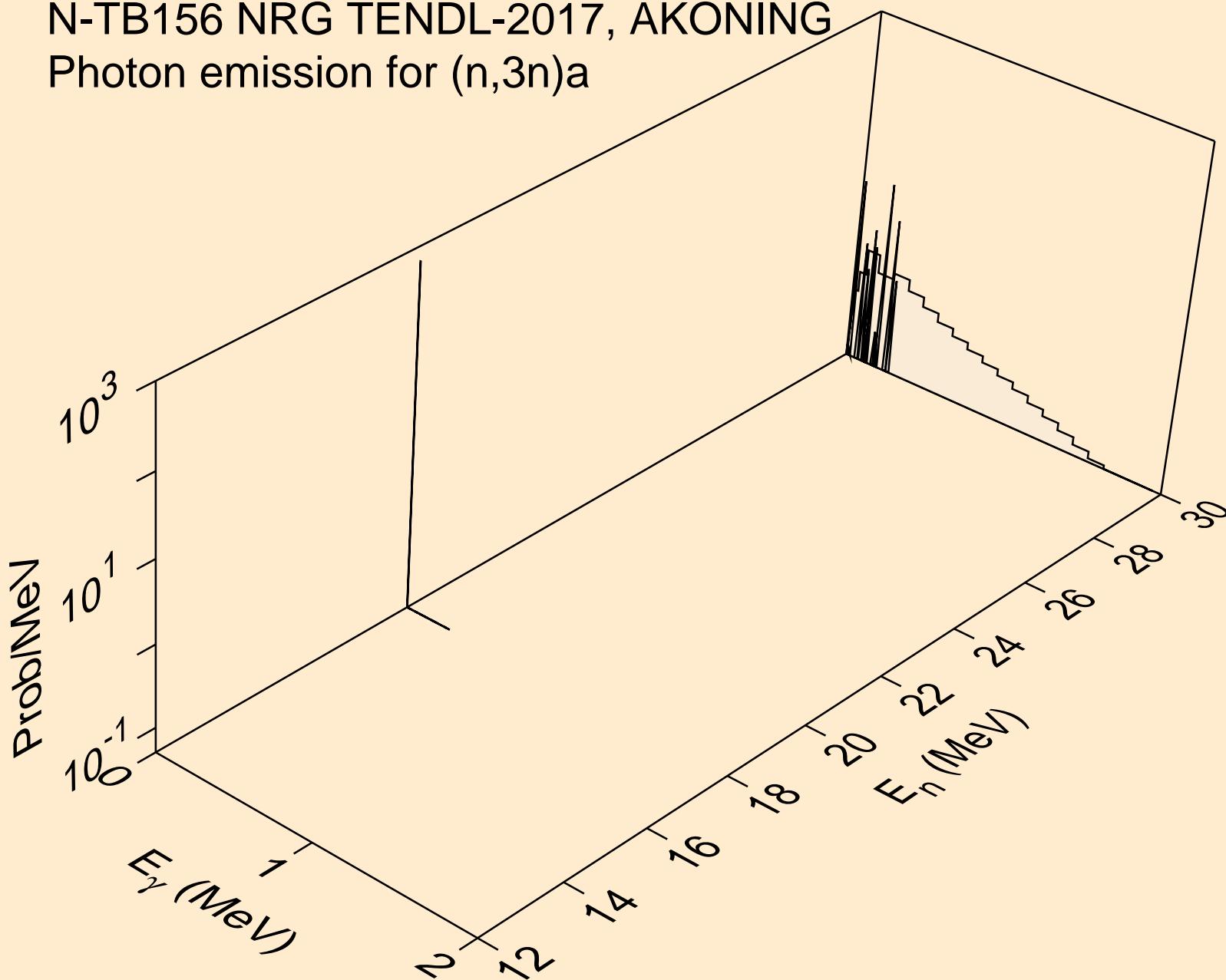
N-TB156 NRG TENDL-2017, AKONING  
Photon emission for  $(n,n^*)a$



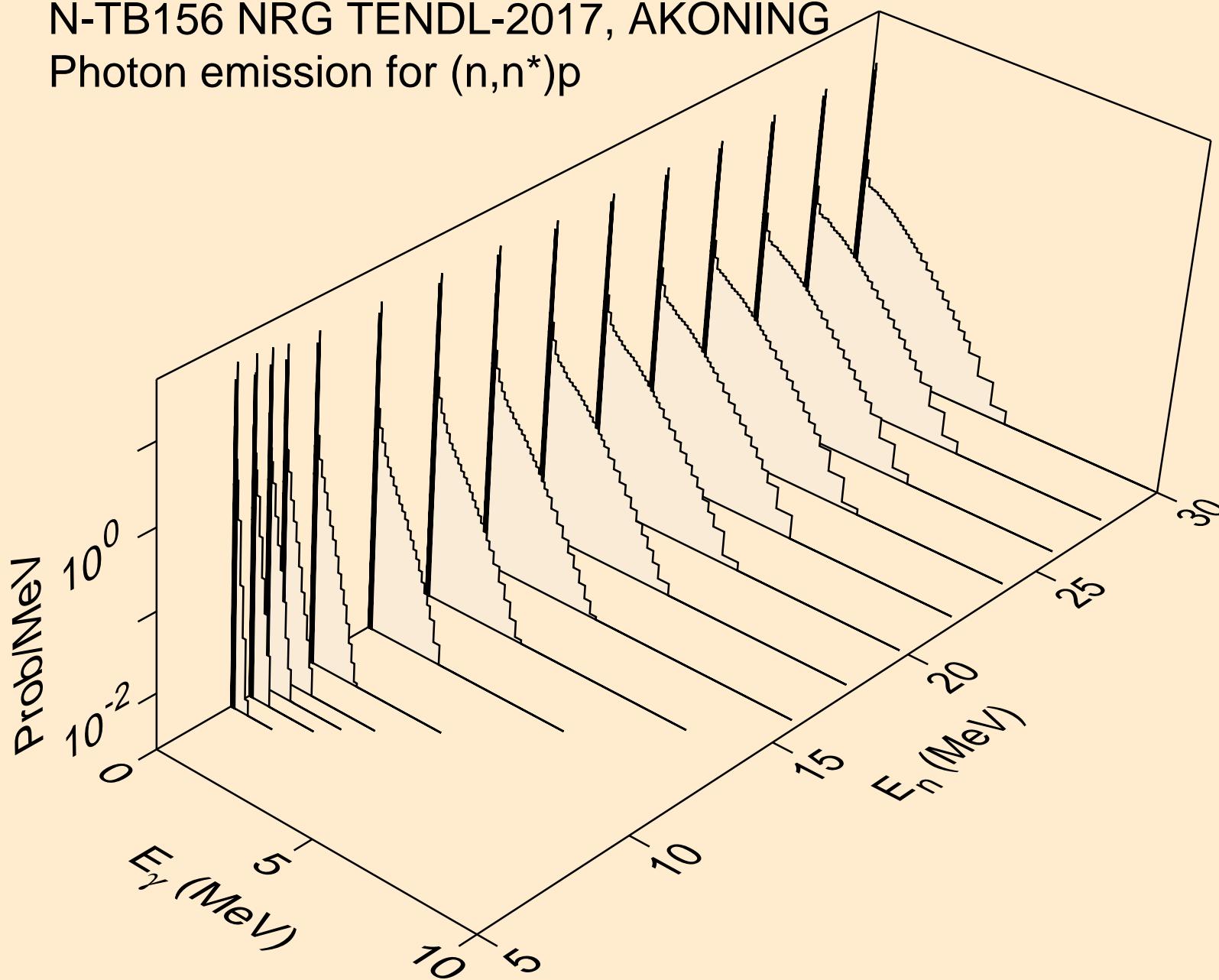
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Photon emission for (n,2n)a



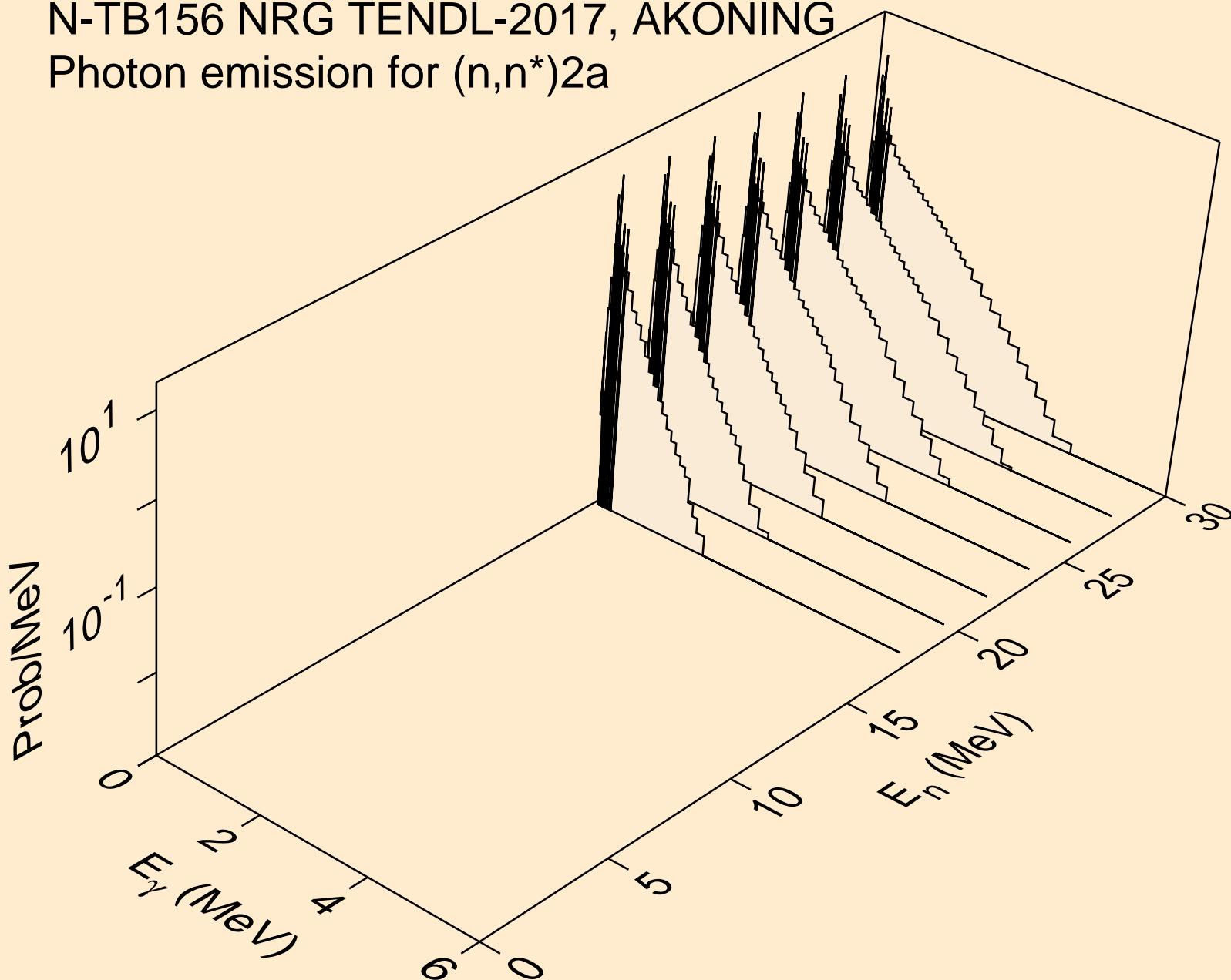
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Photon emission for (n,3n)a



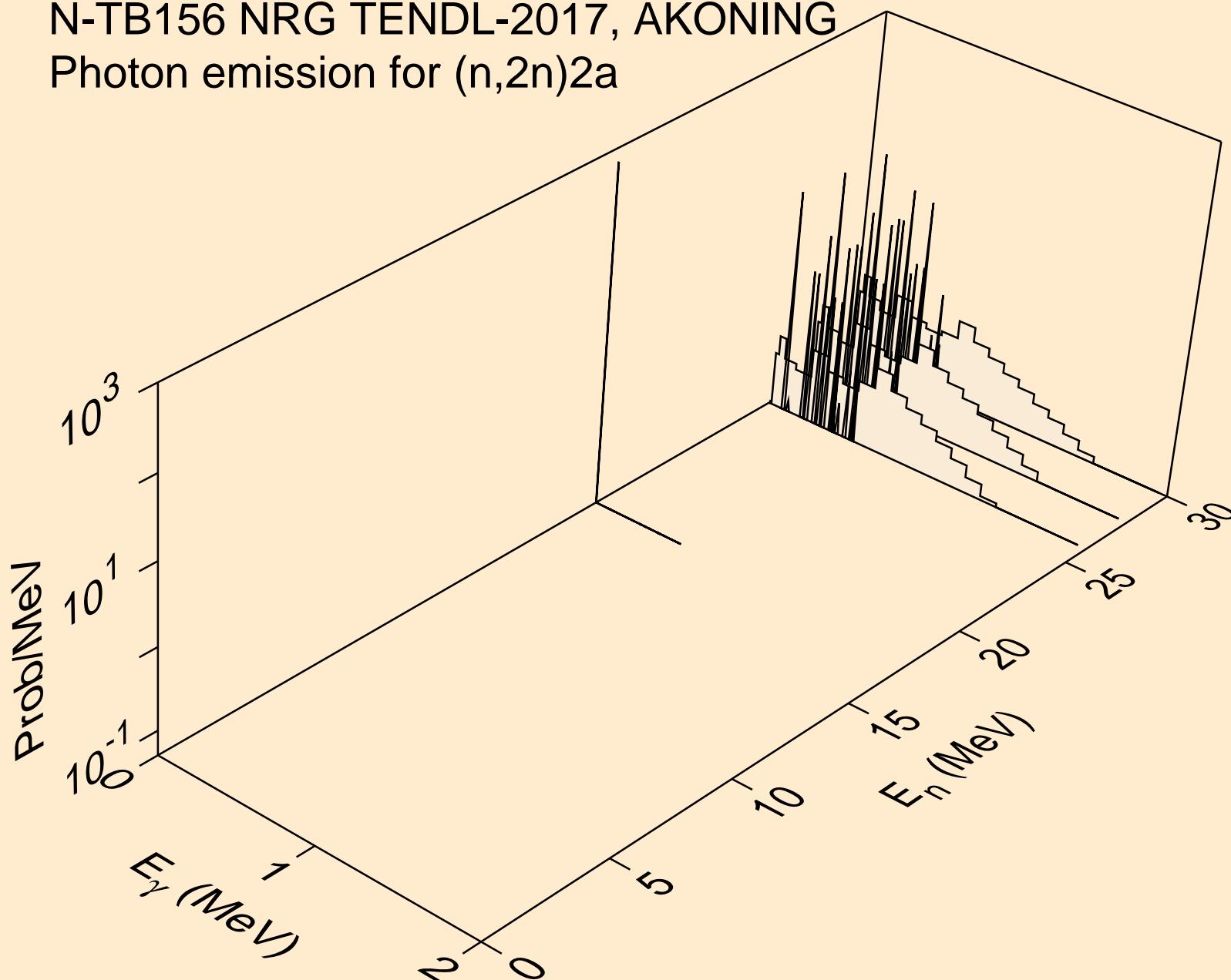
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Photon emission for  $(n,n^*)p$



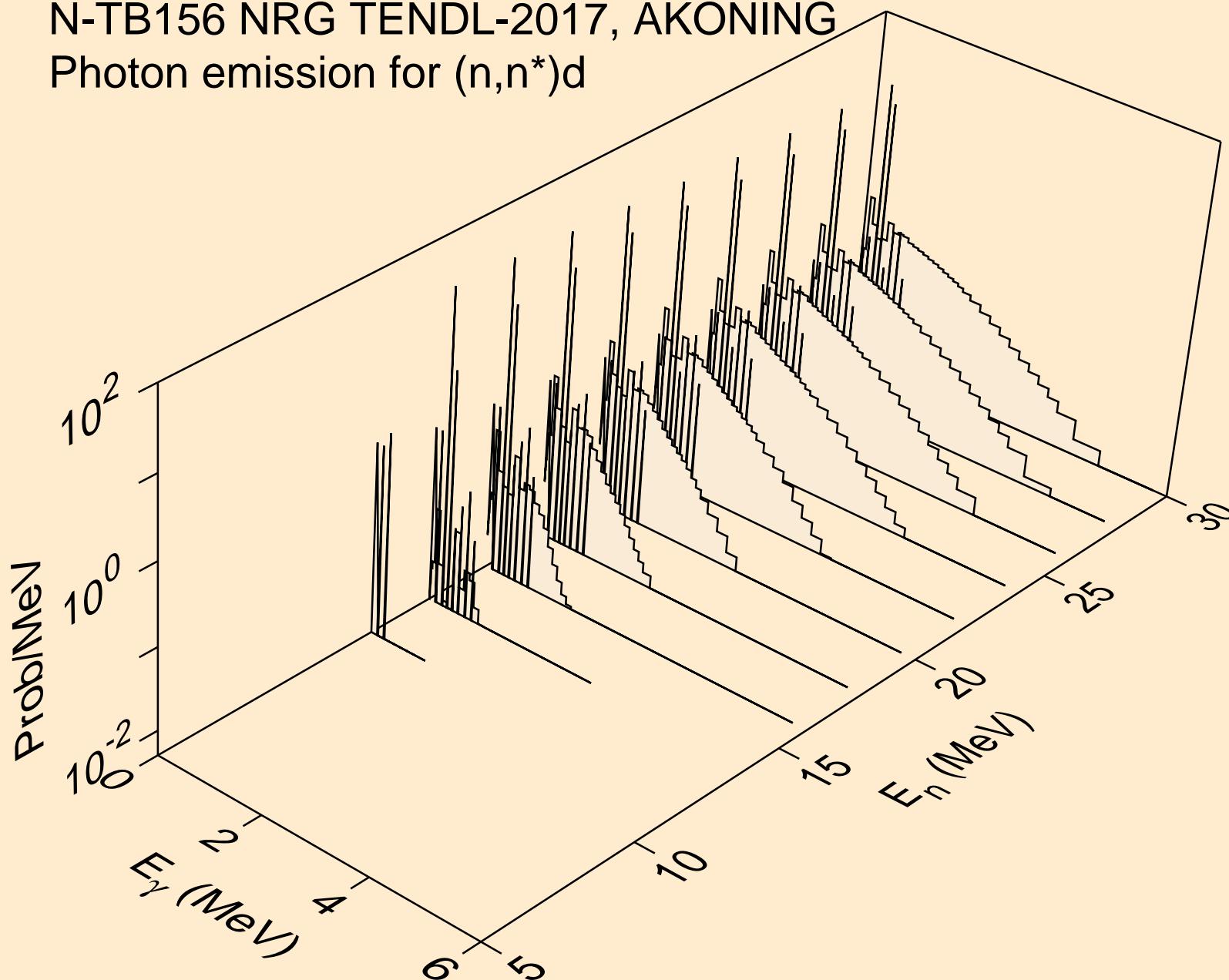
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Photon emission for  $(n,n^*)2a$



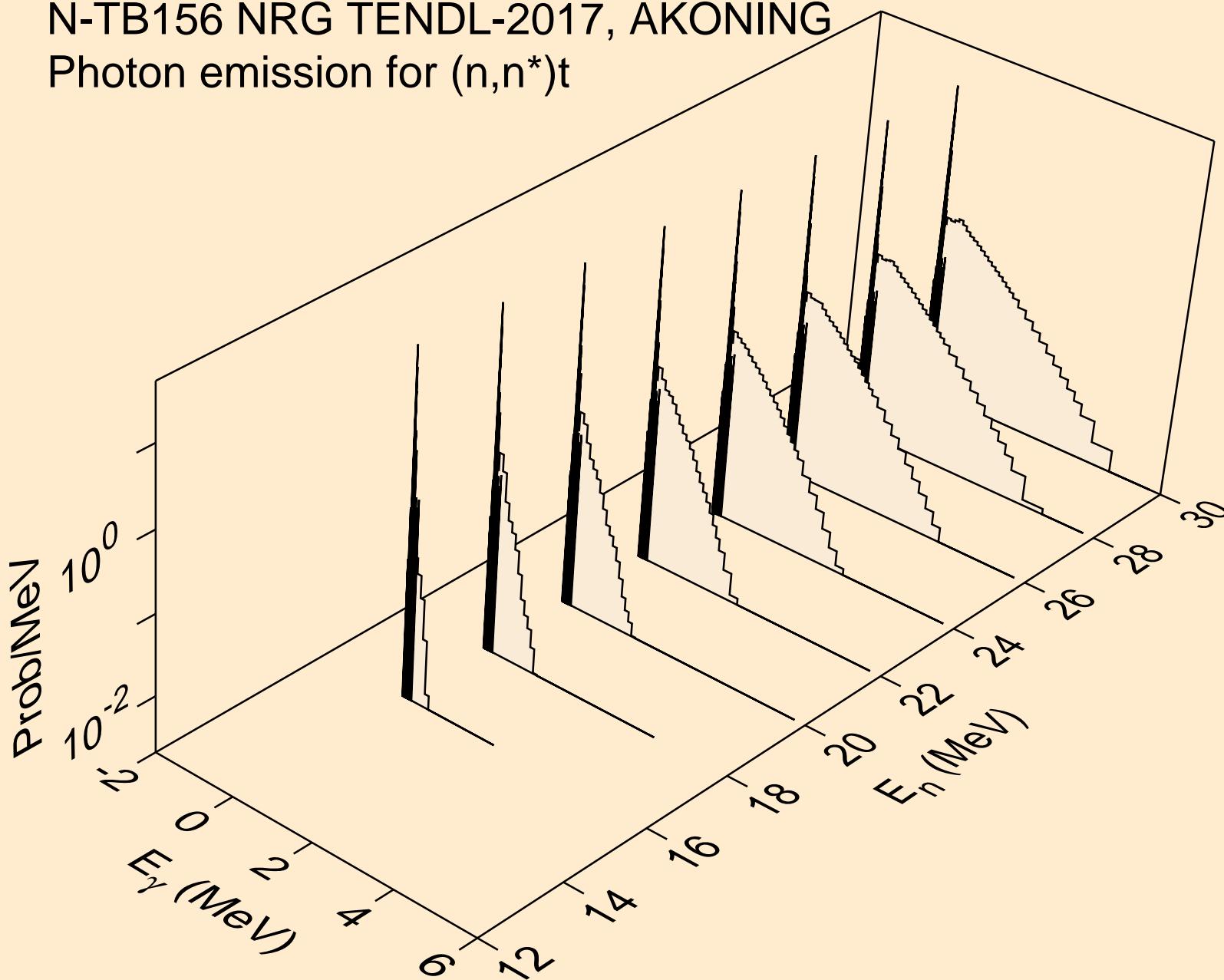
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Photon emission for  $(n,2n)2a$



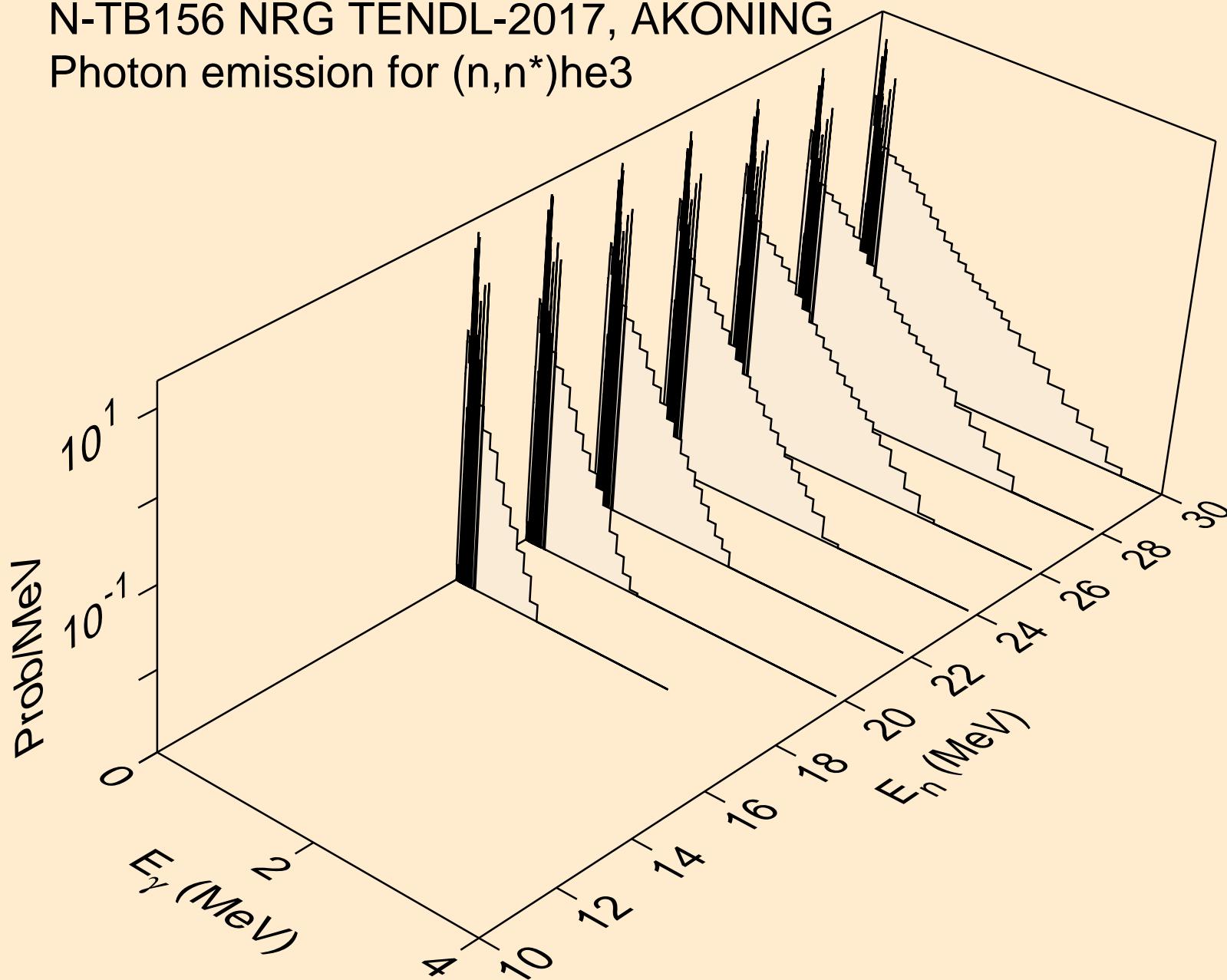
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Photon emission for  $(n,n^*)d$



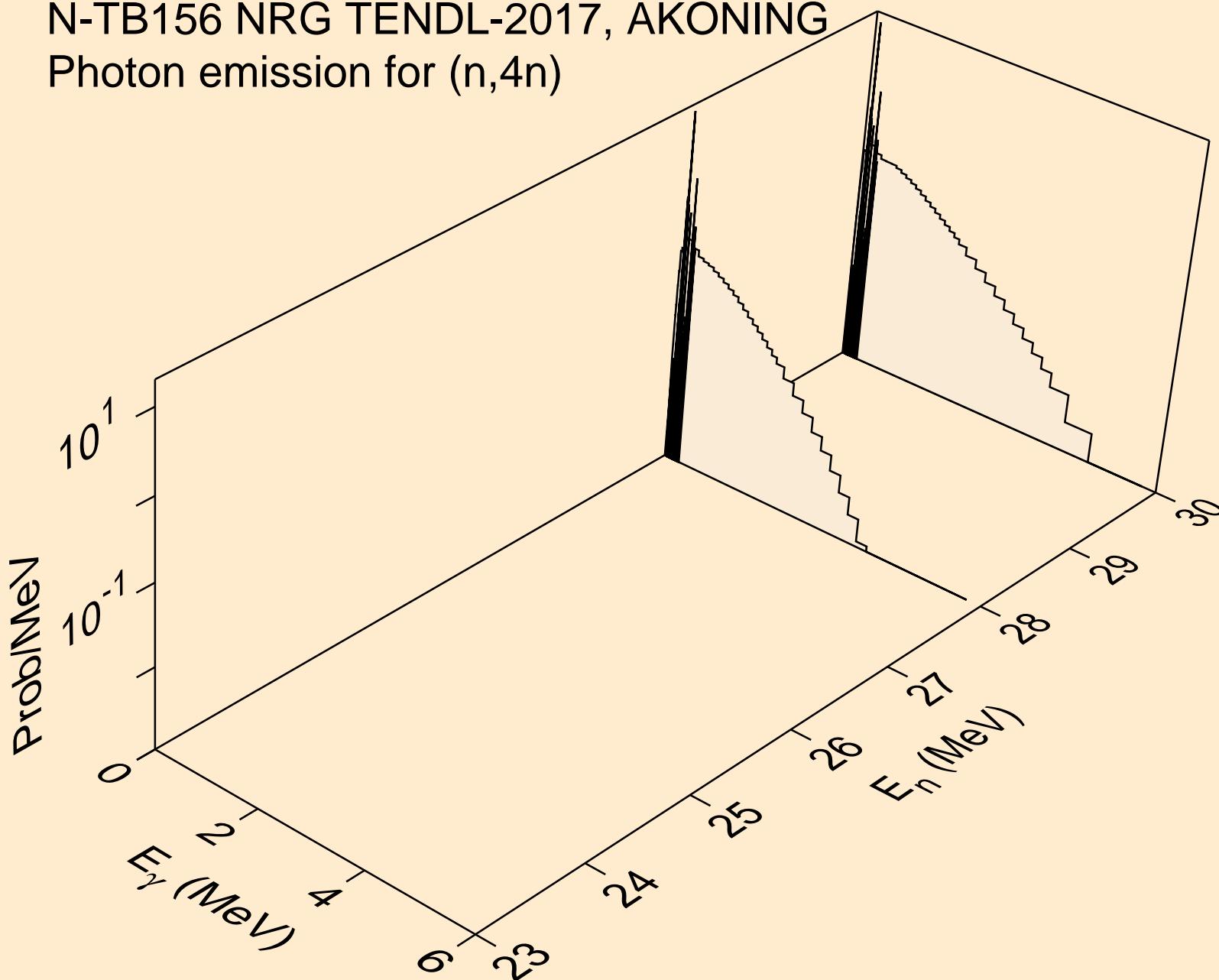
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Photon emission for  $(n,n^*)t$



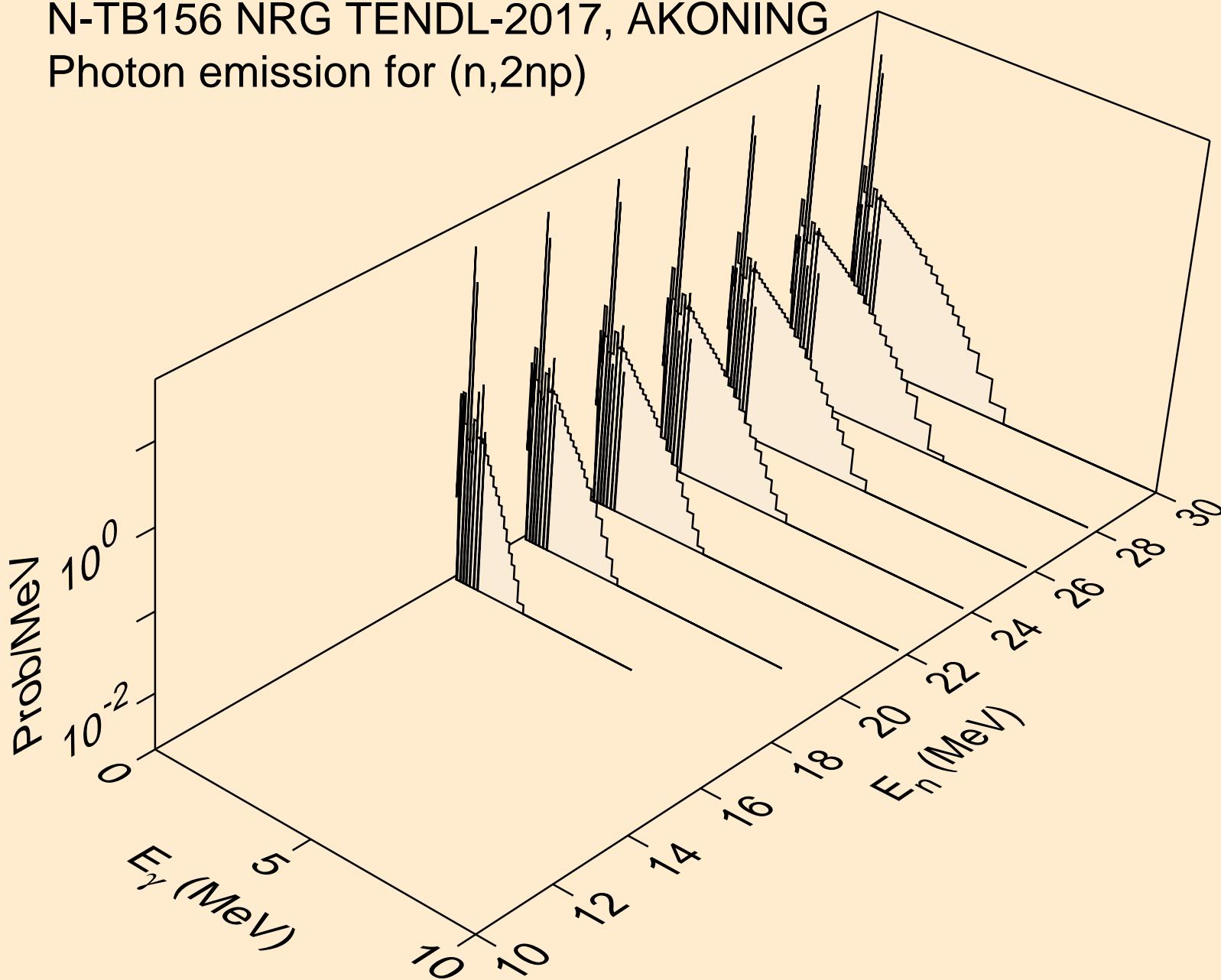
N-TB156 NRG TENDL-2017, AKONING  
Photon emission for  $(n,n^*)\text{he3}$



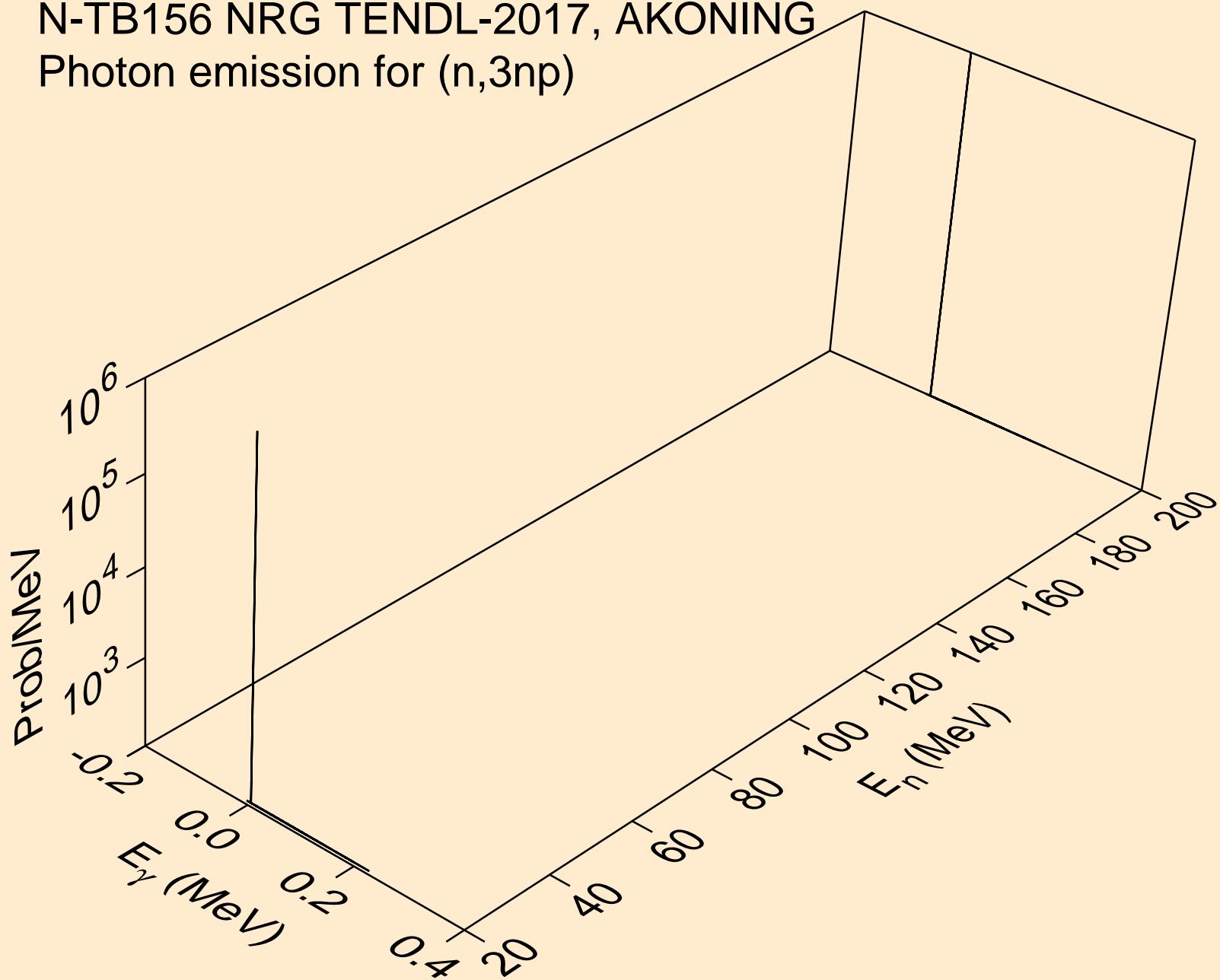
N-TB156 NRG TENDL-2017, AKONING  
Photon emission for (n,4n)



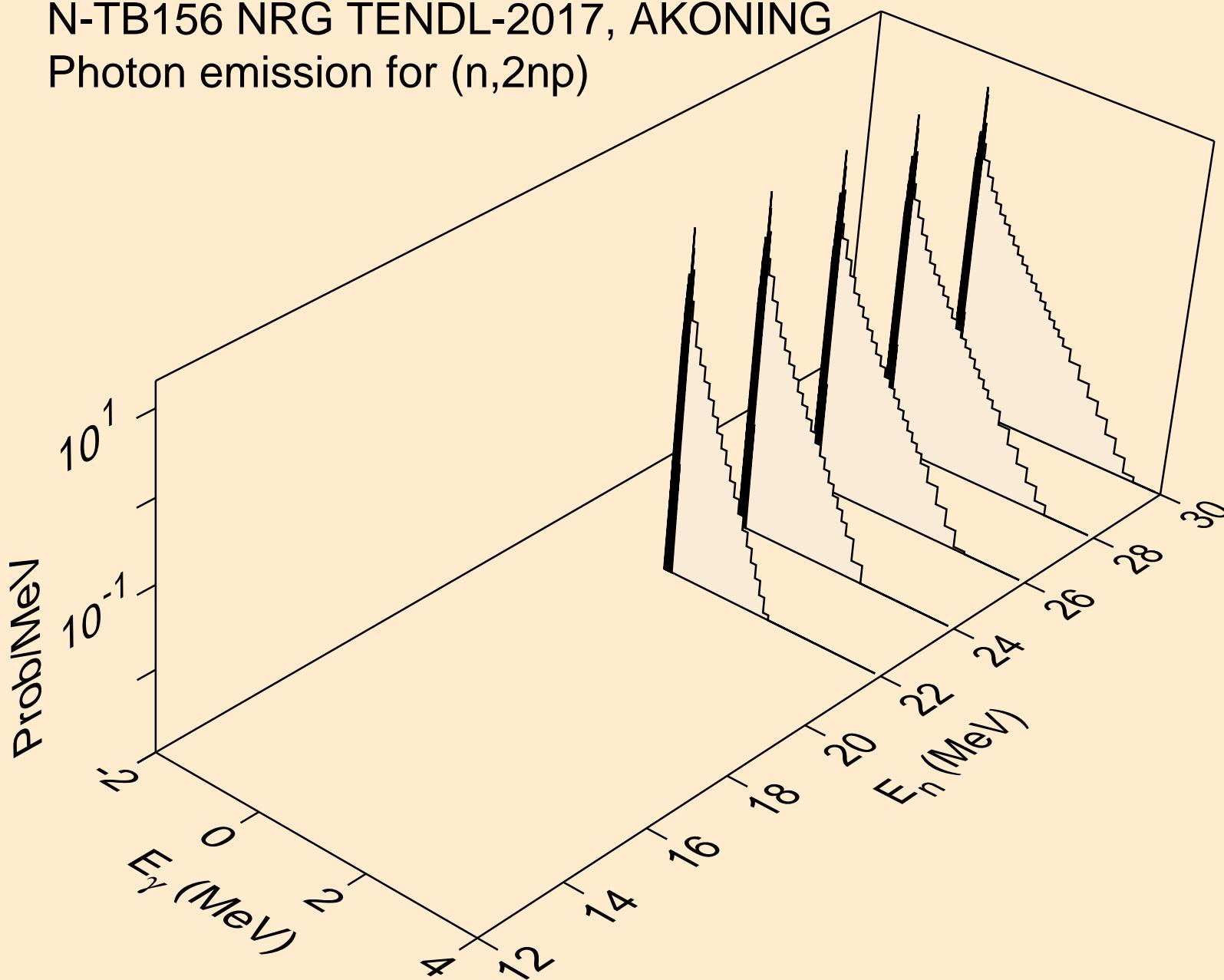
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Photon emission for (n,2np)



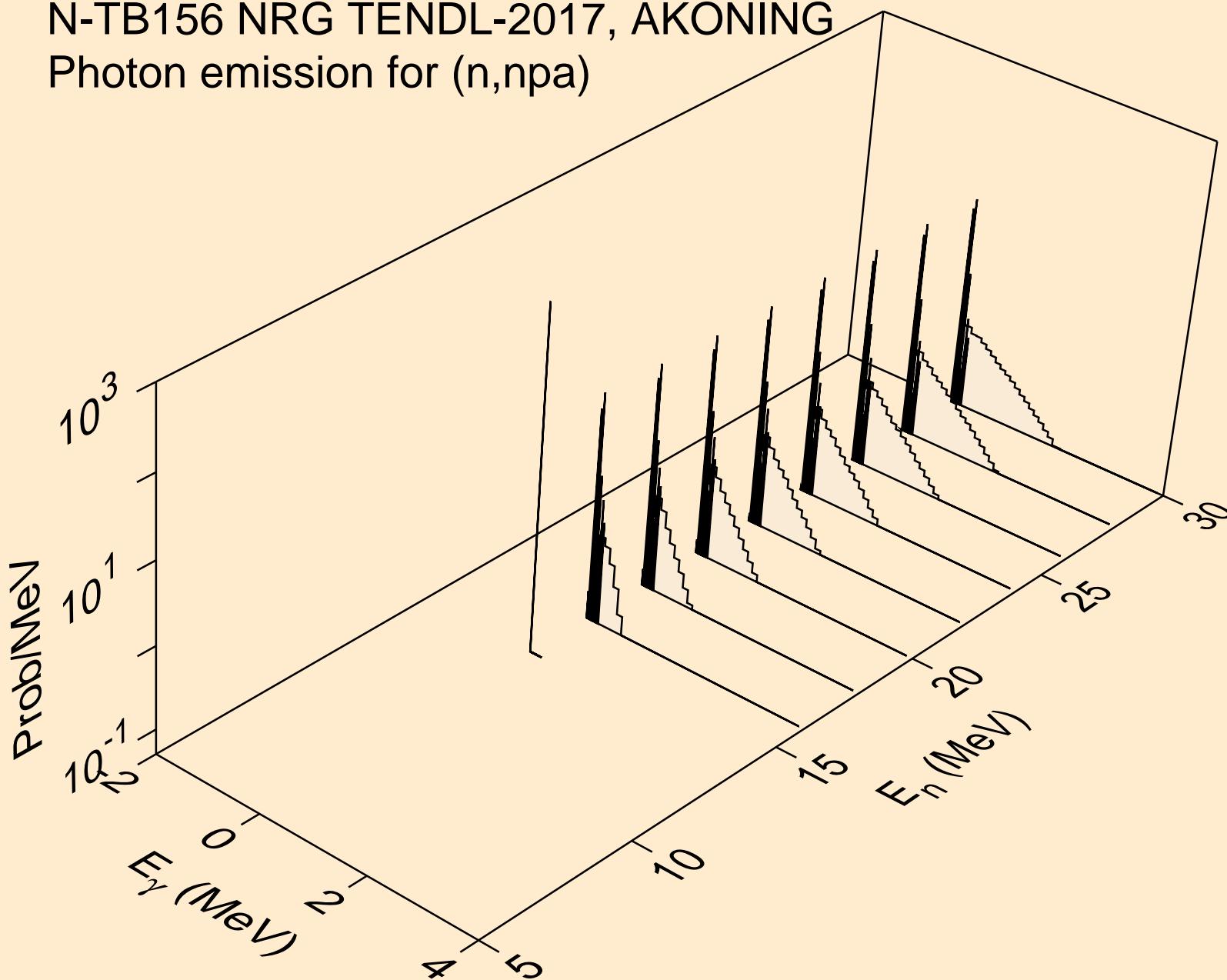
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Photon emission for (n,3np)



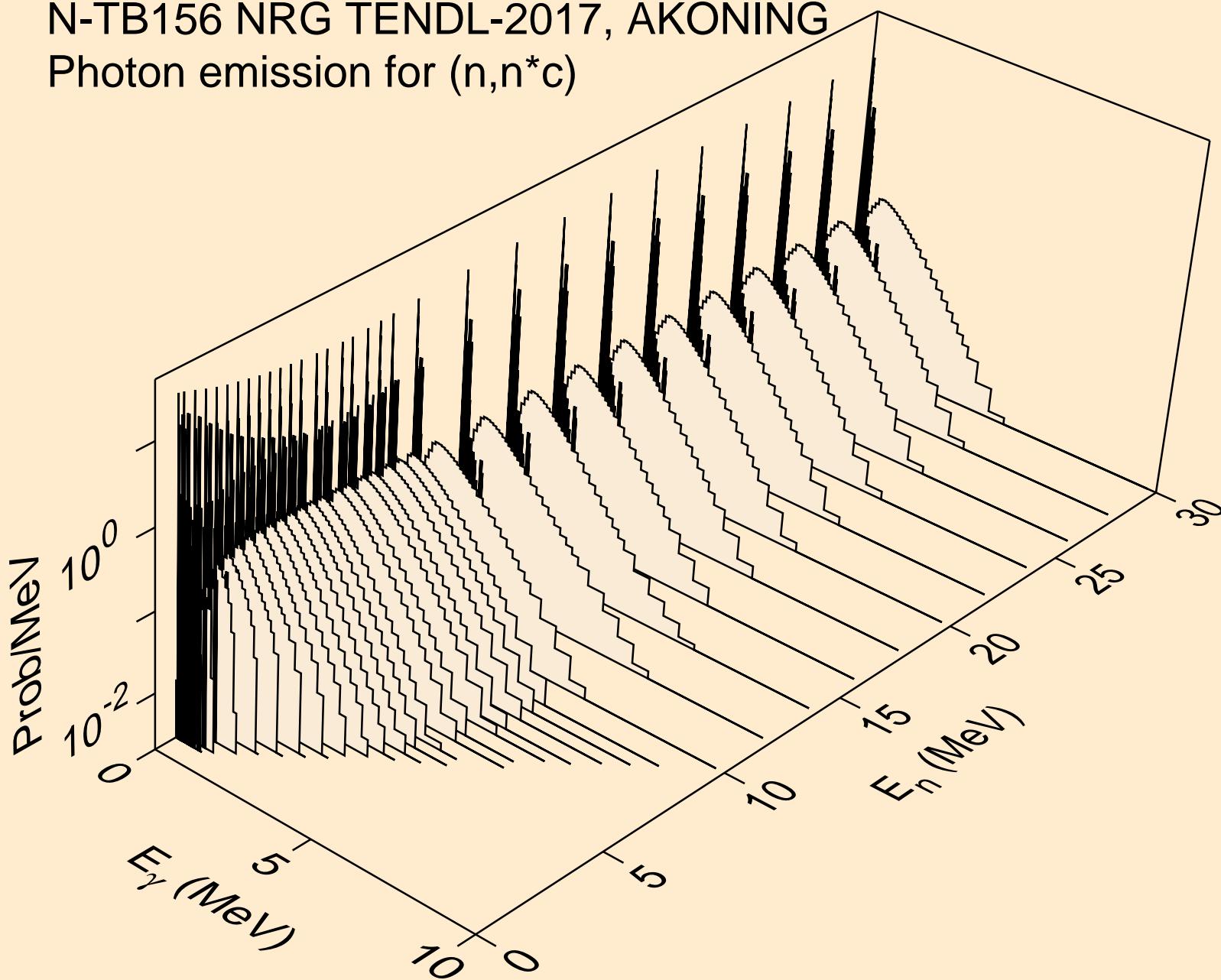
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Photon emission for (n,2np)



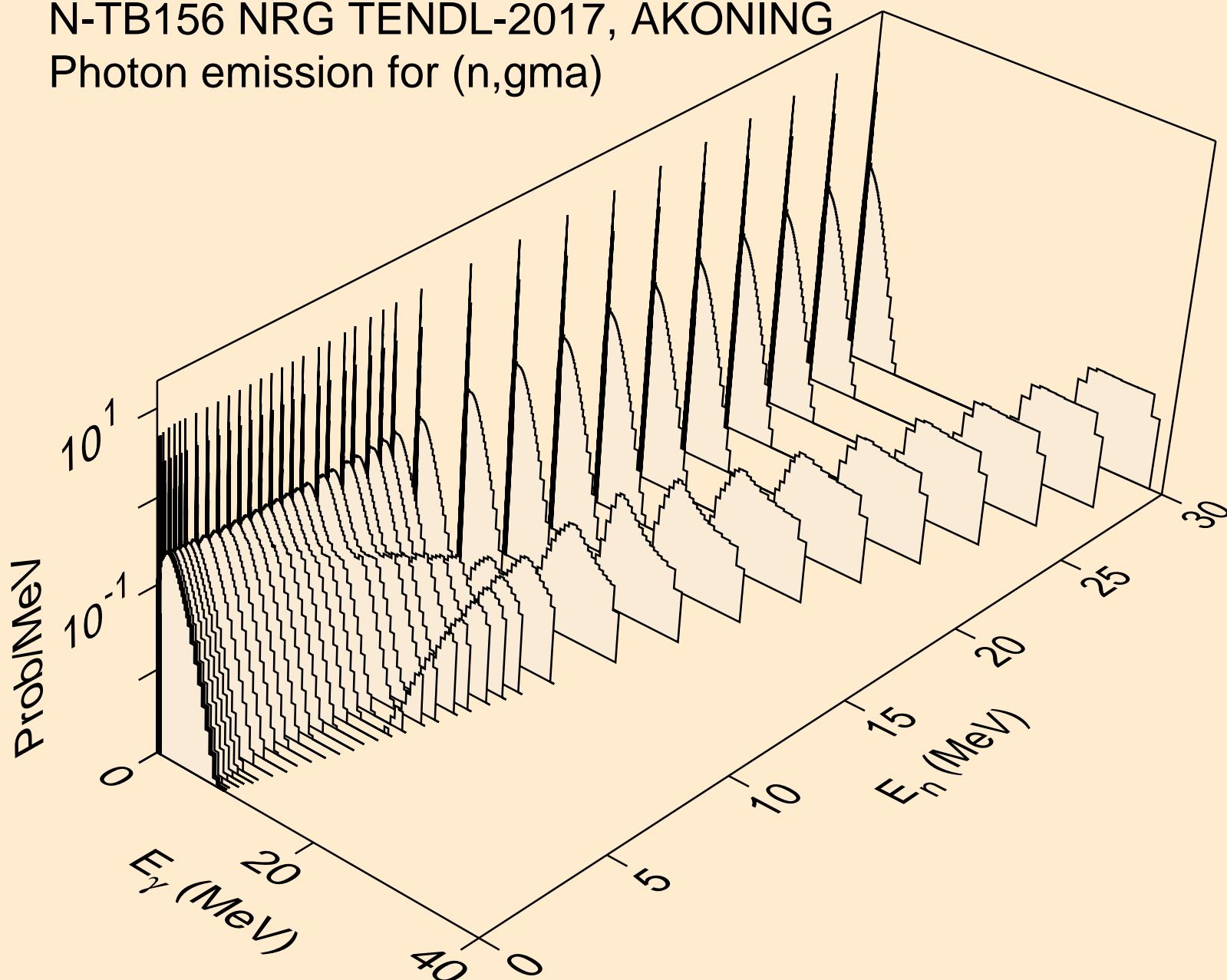
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Photon emission for (n,npa)



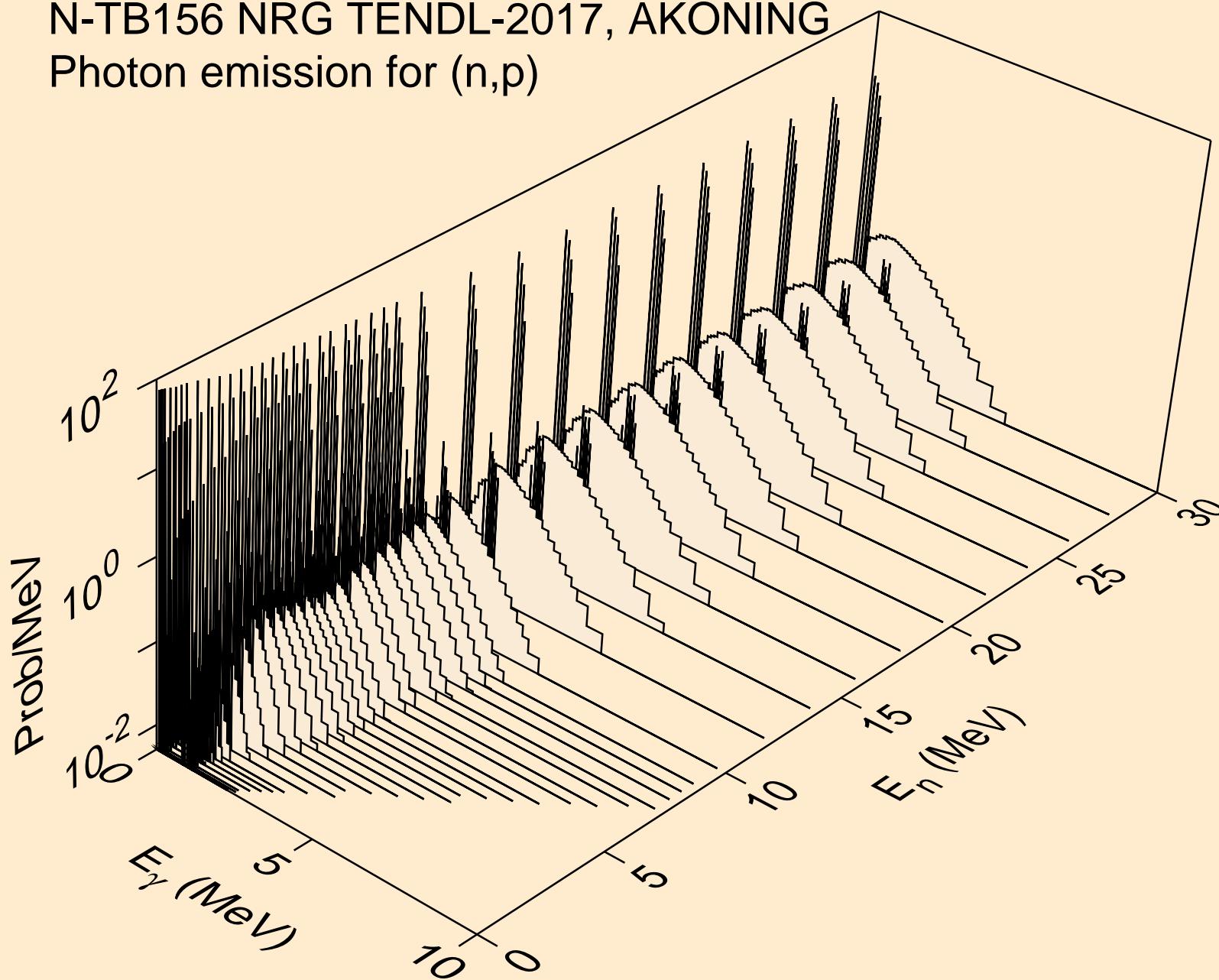
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Photon emission for  $(n, n^* c)$



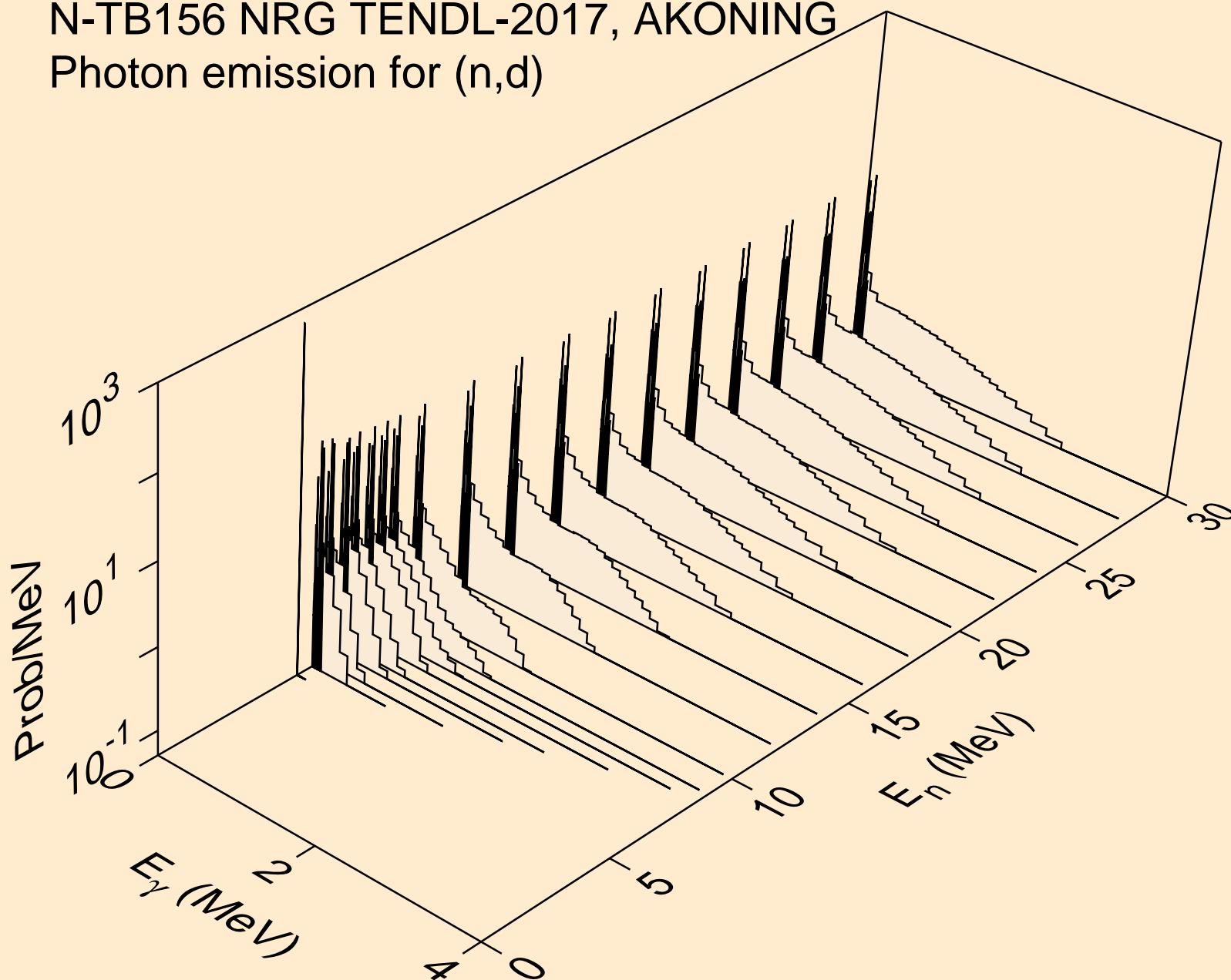
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Photon emission for (n,gma)



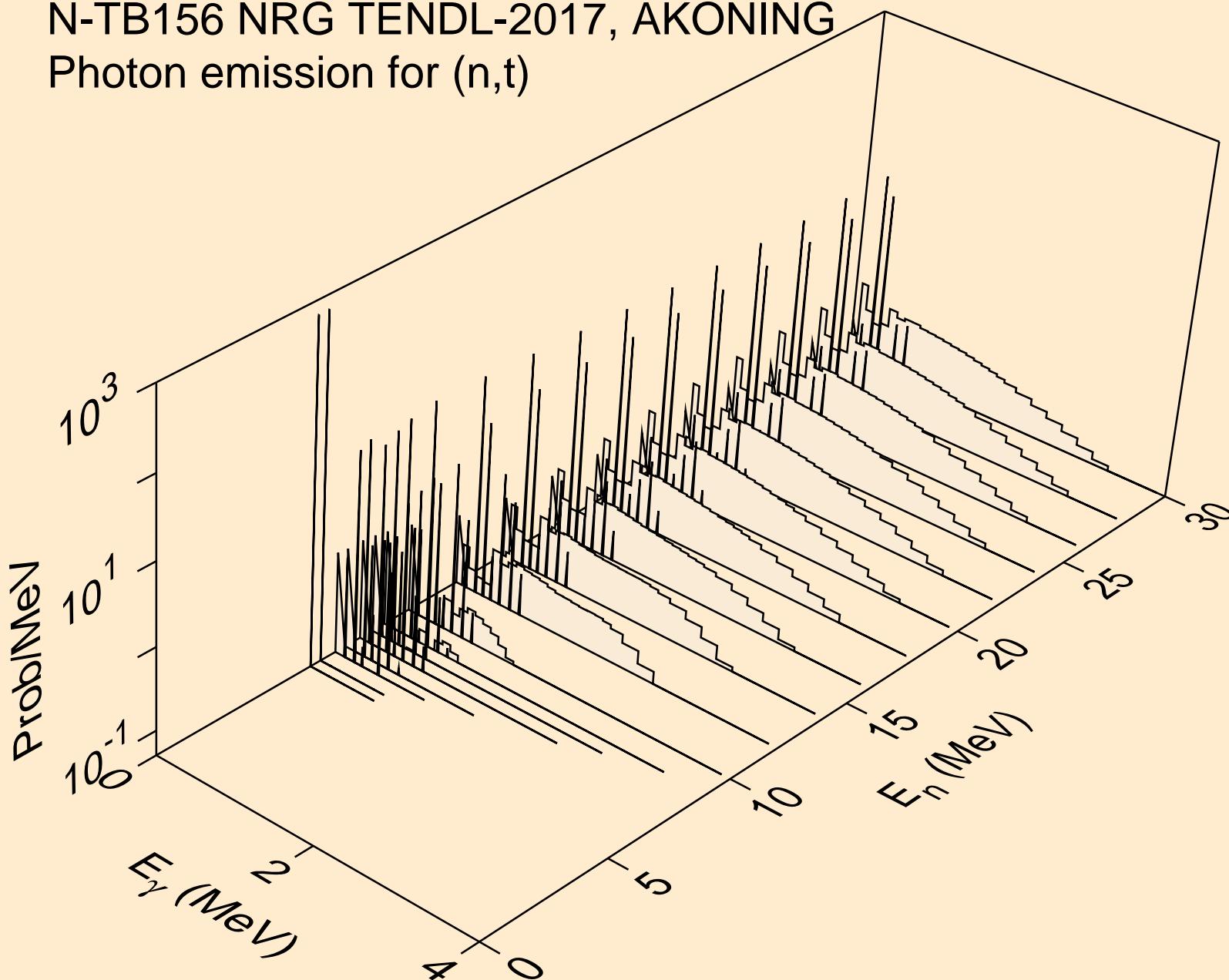
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Photon emission for (n,p)



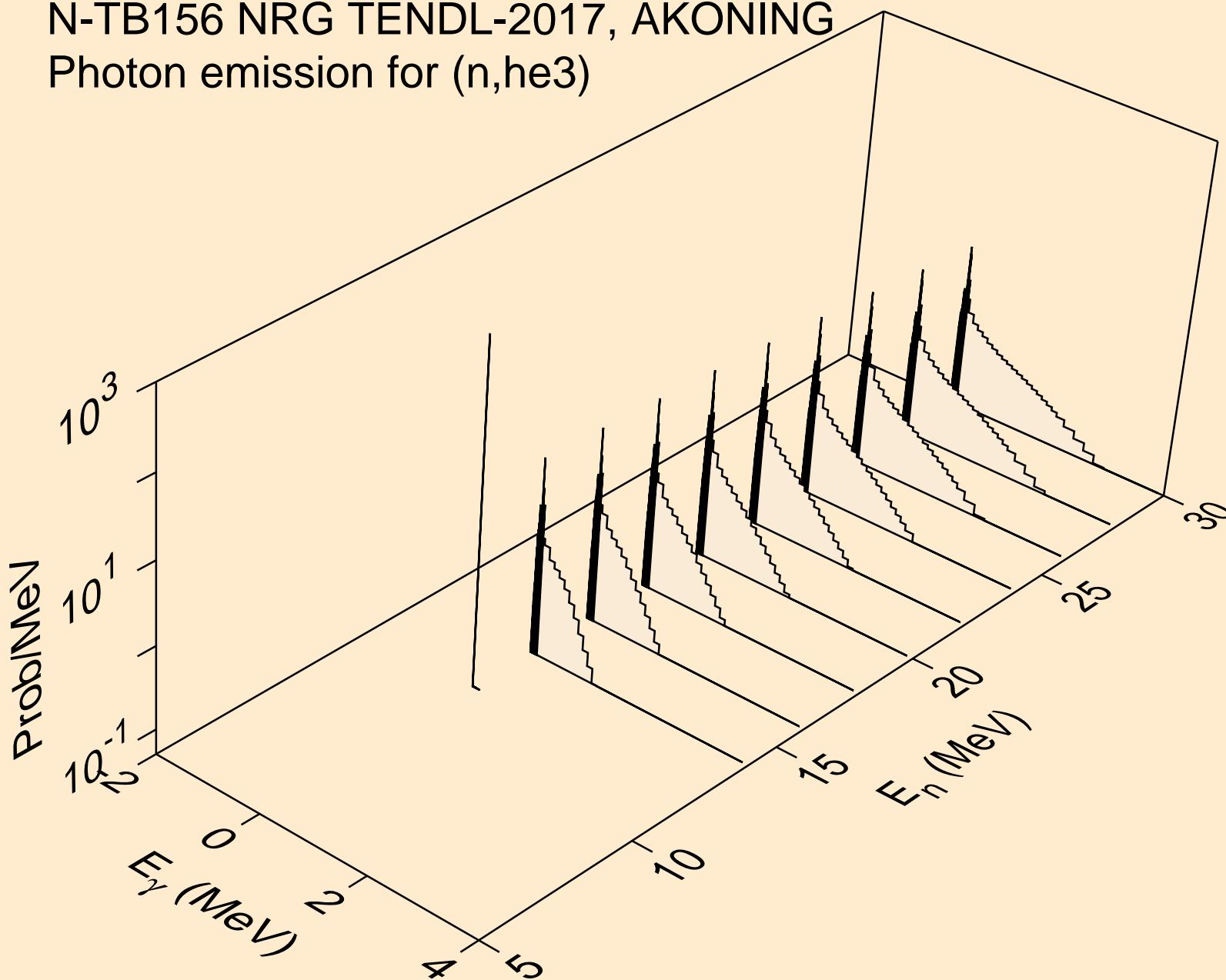
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Photon emission for (n,d)



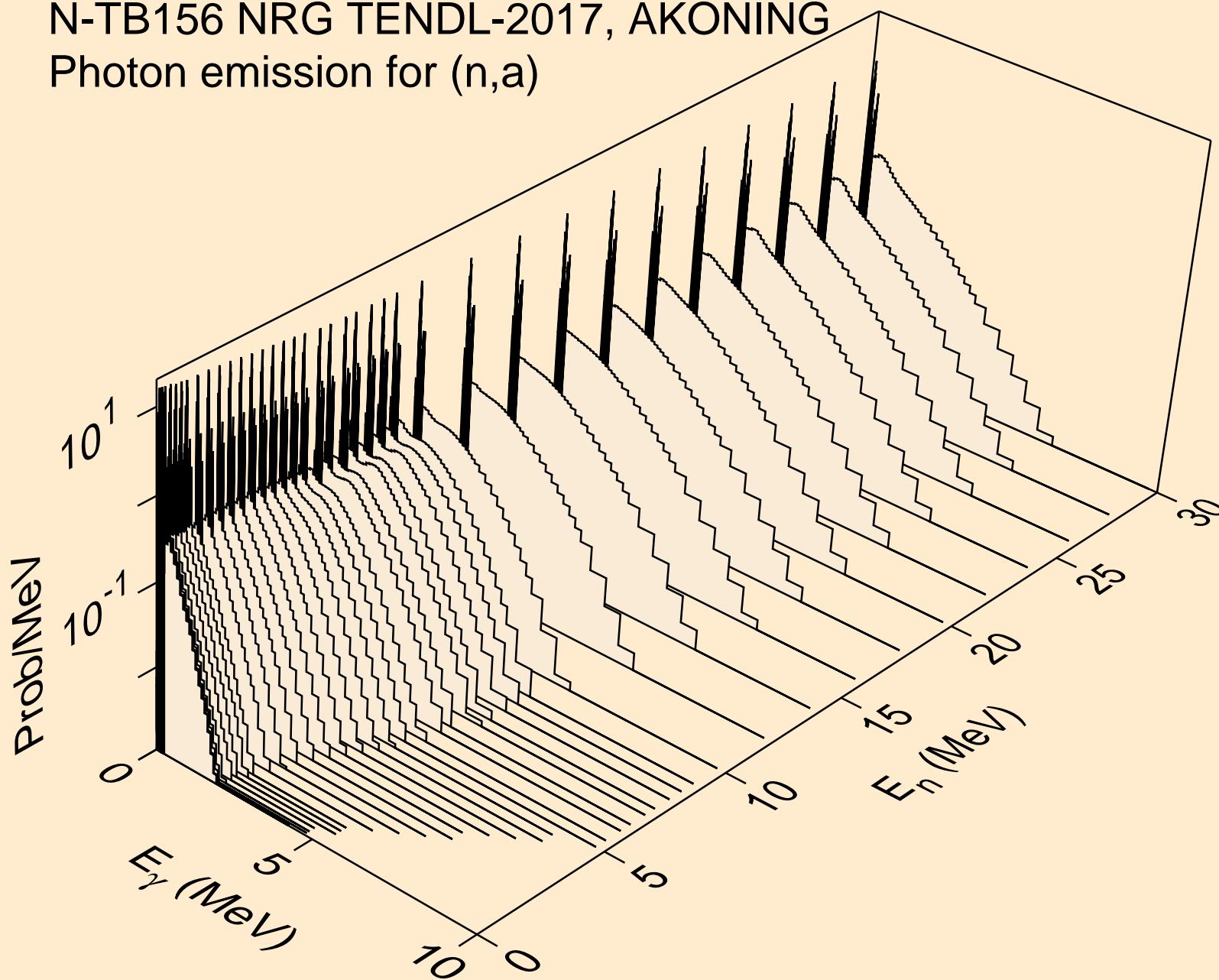
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Photon emission for (n,t)



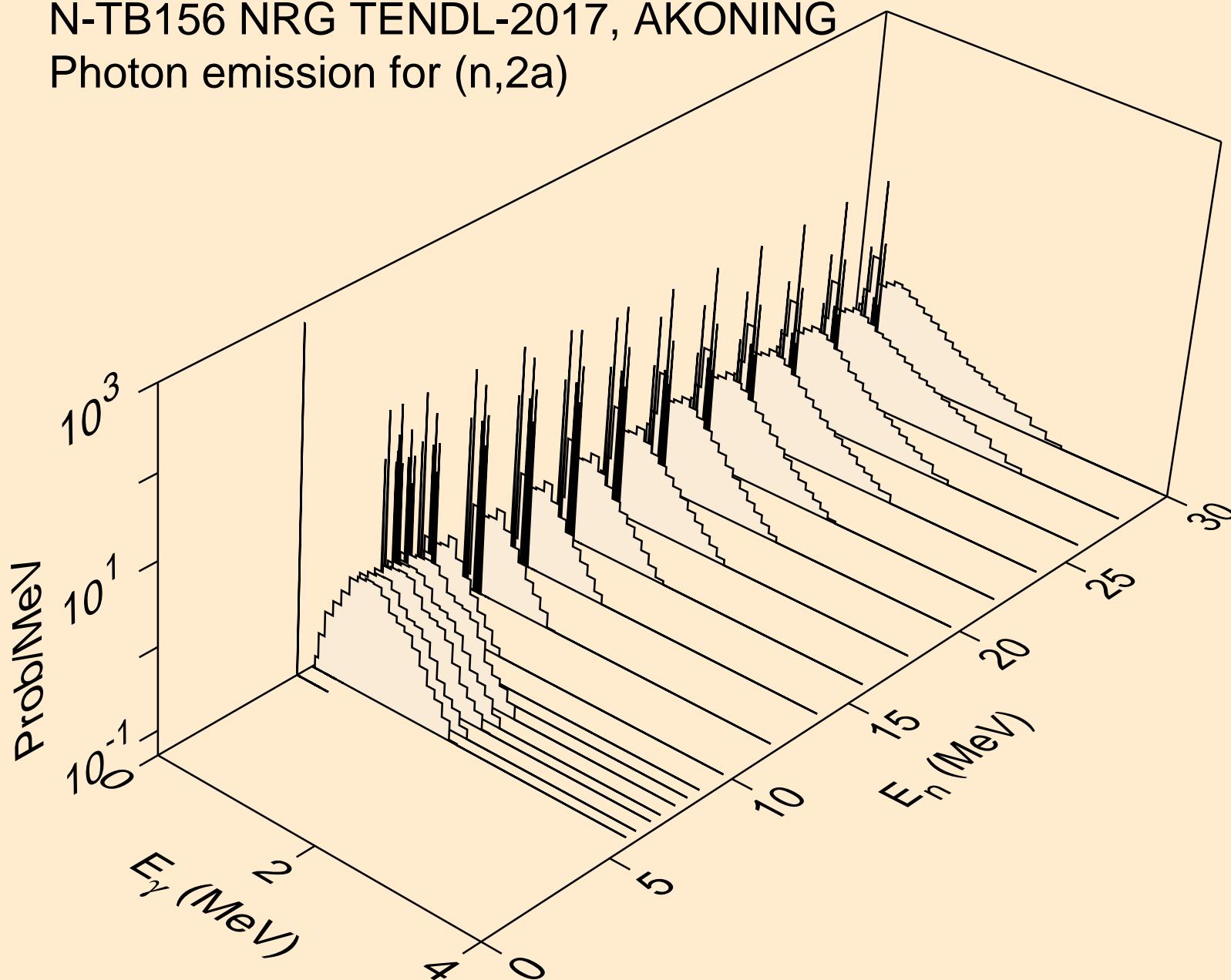
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Photon emission for (n,he3)



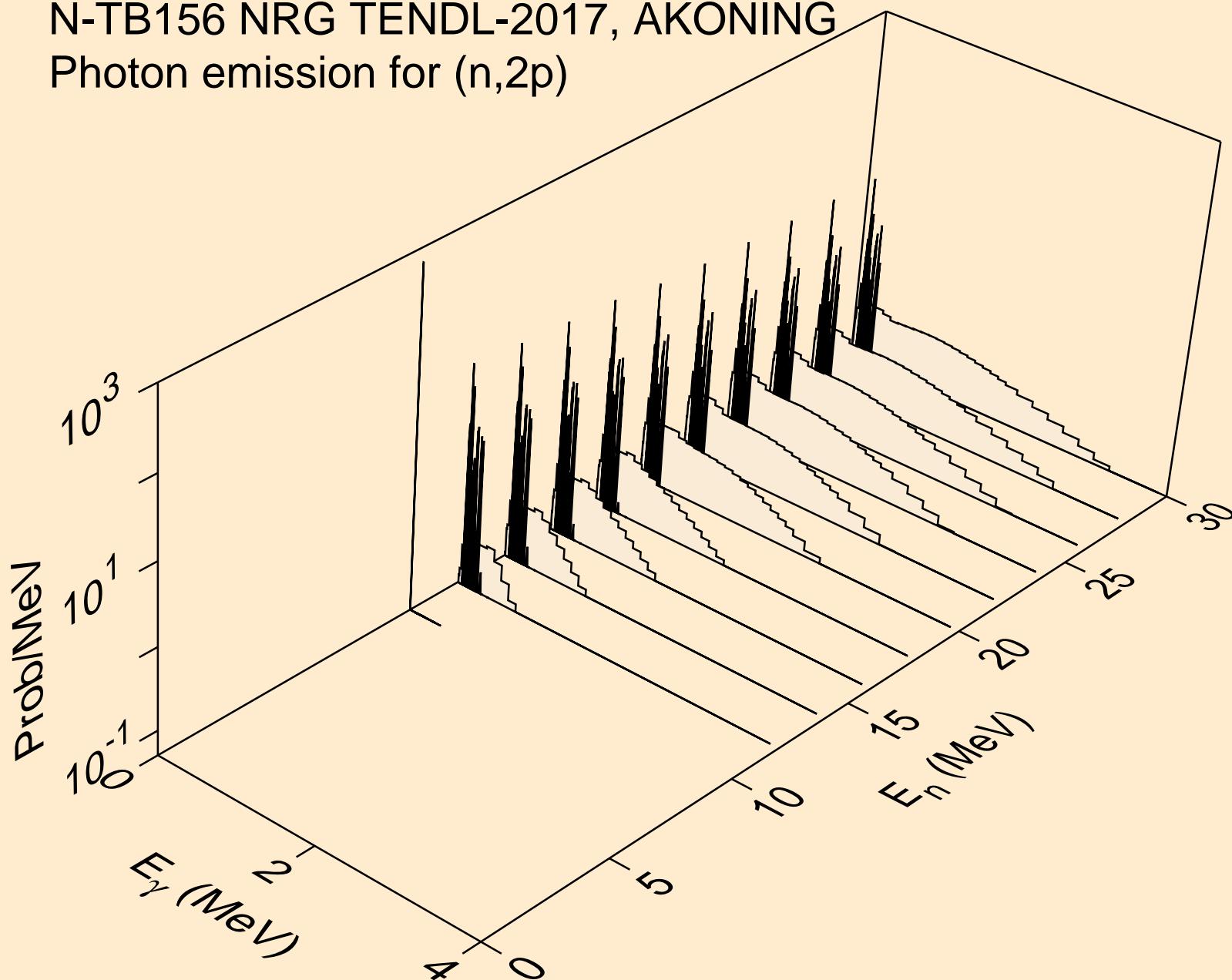
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Photon emission for (n,a)



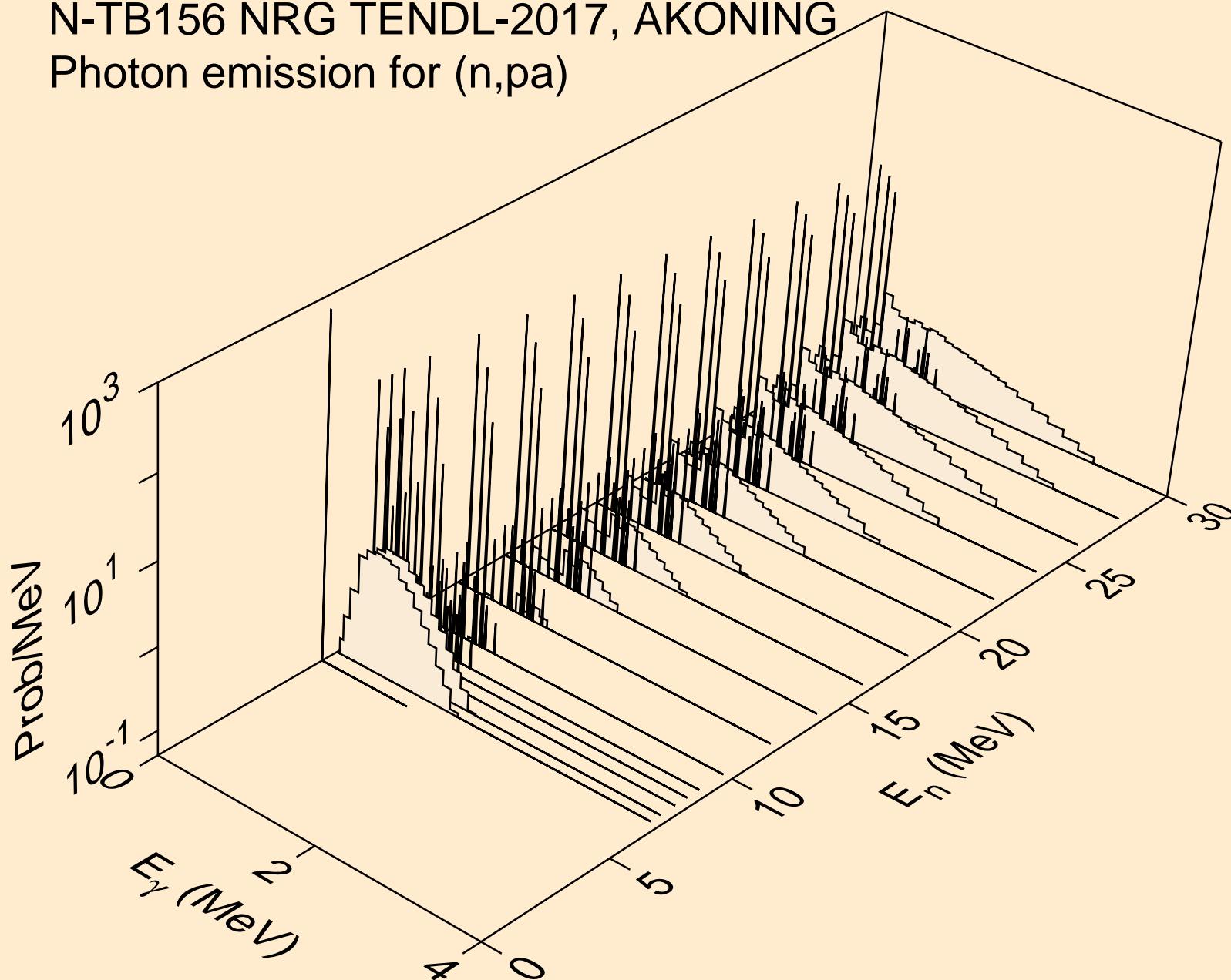
N-TB156 NRG TENDL-2017, AKONING  
Photon emission for (n,2a)



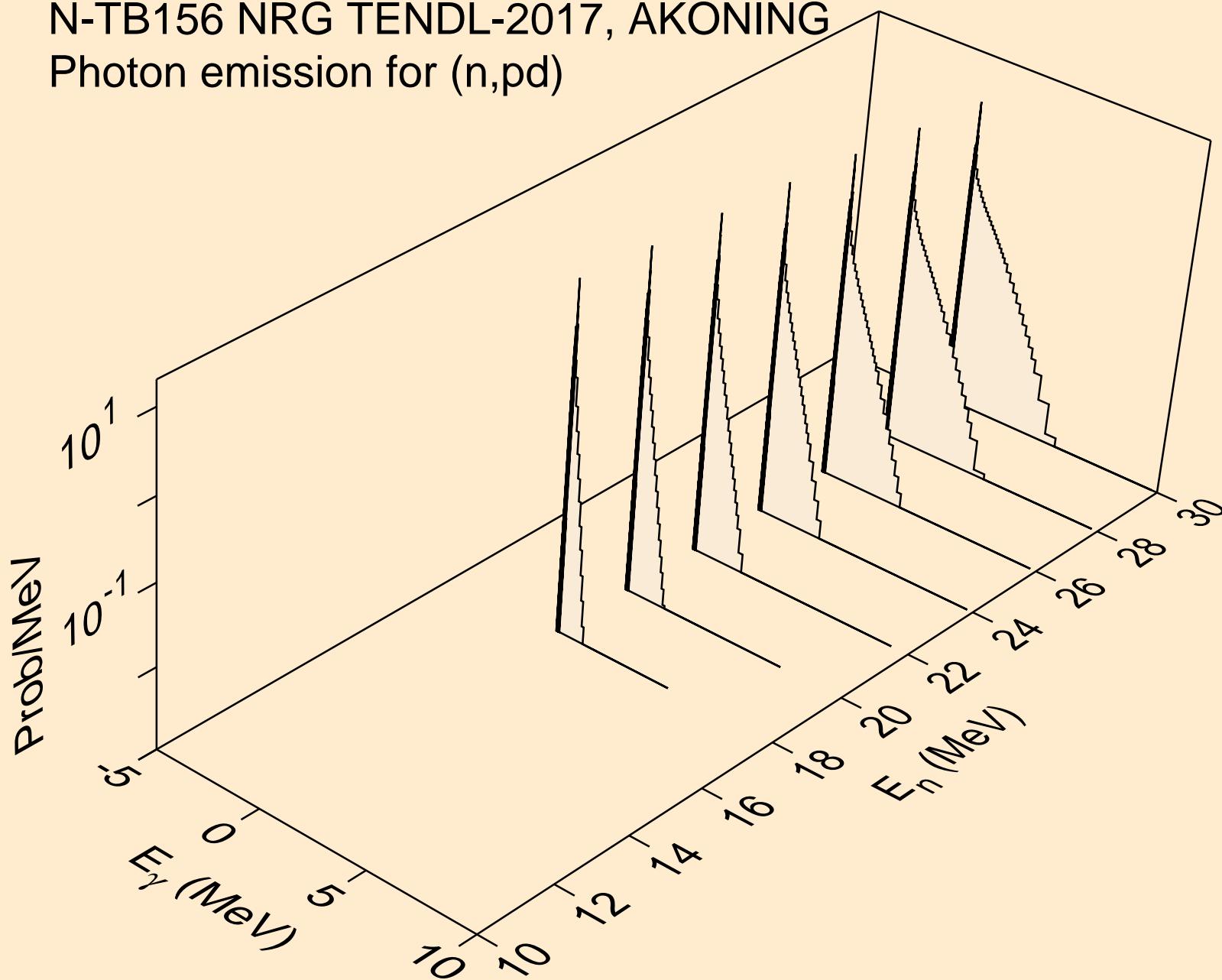
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Photon emission for (n,2p)



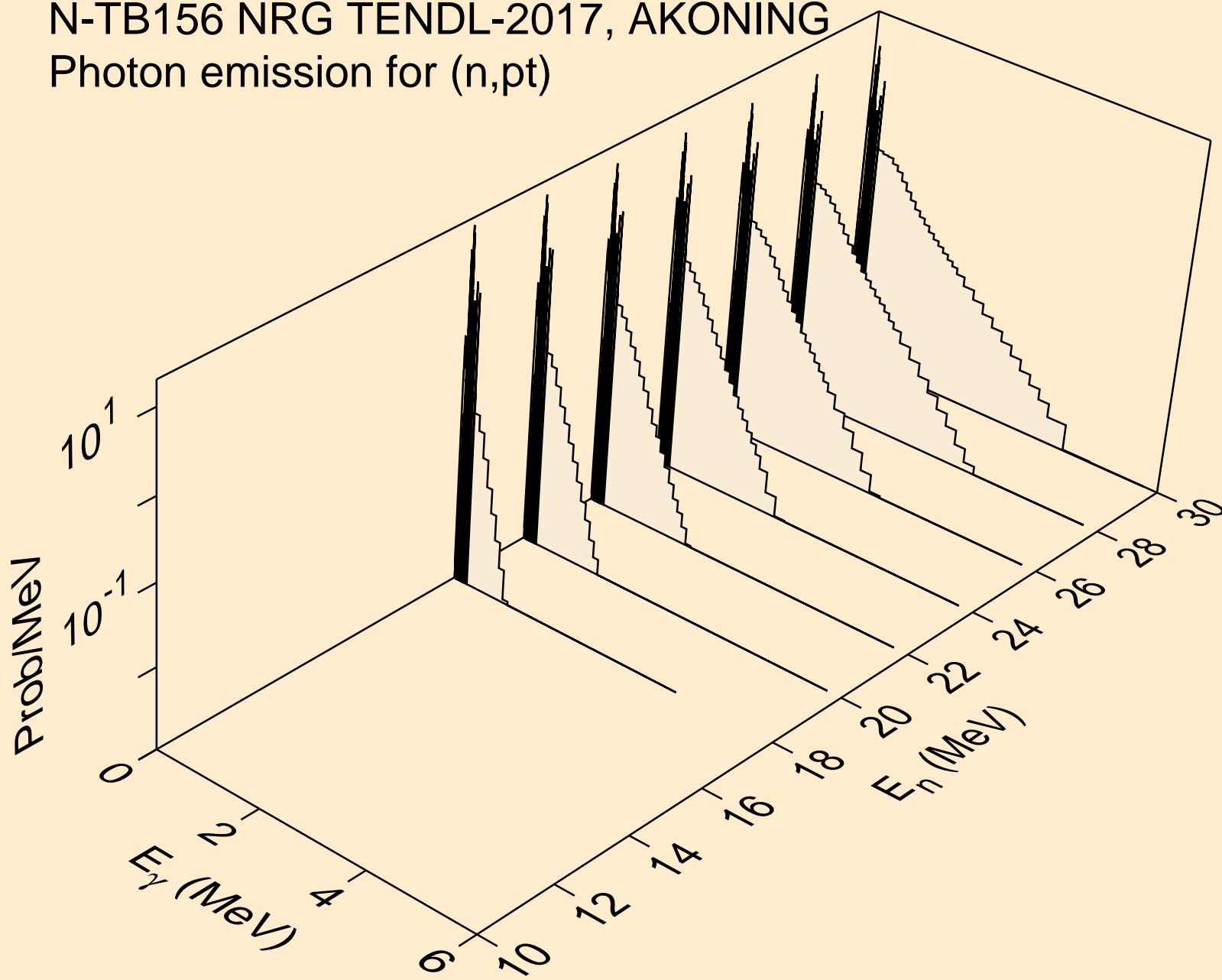
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Photon emission for (n,pa)



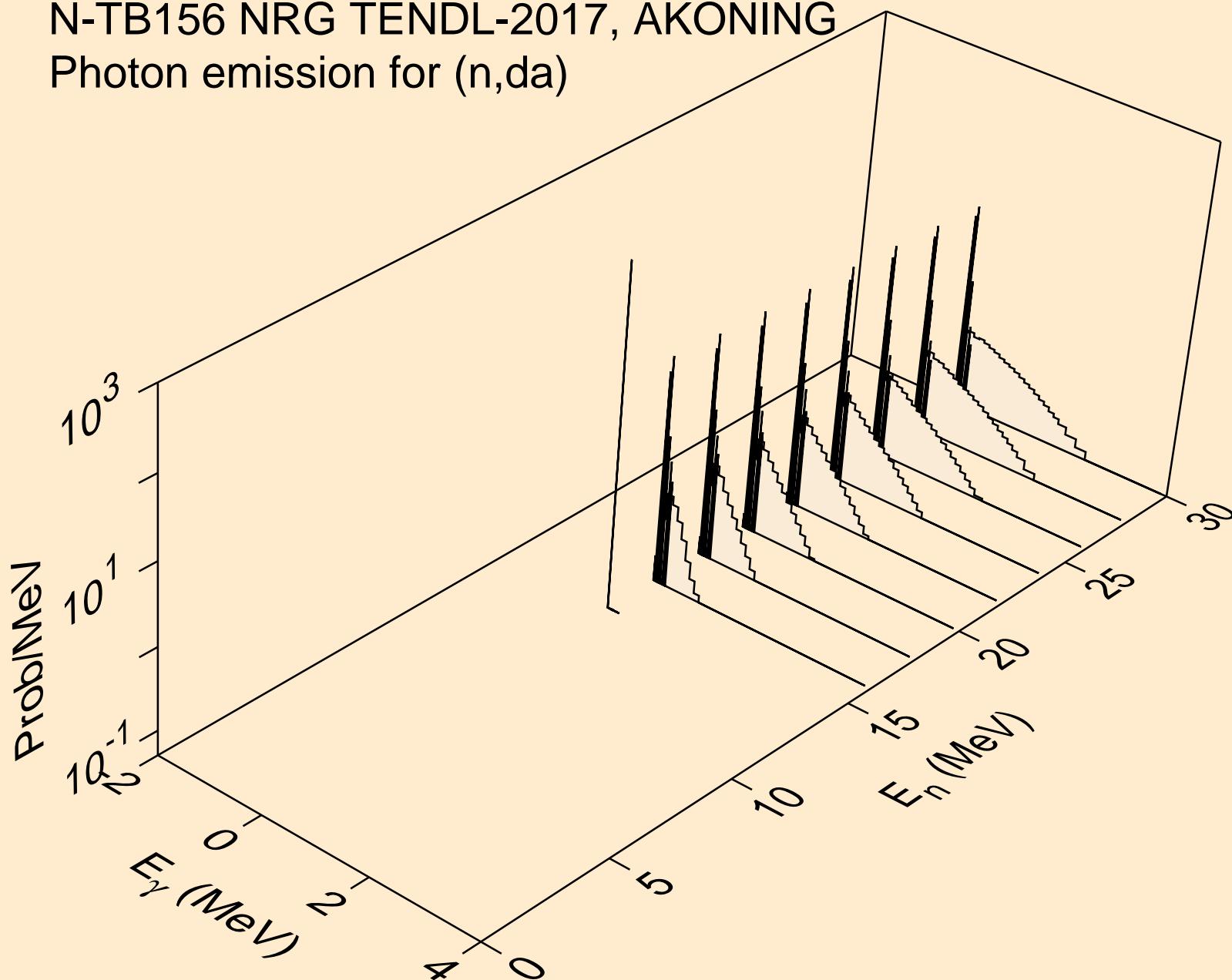
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Photon emission for (n,pd)



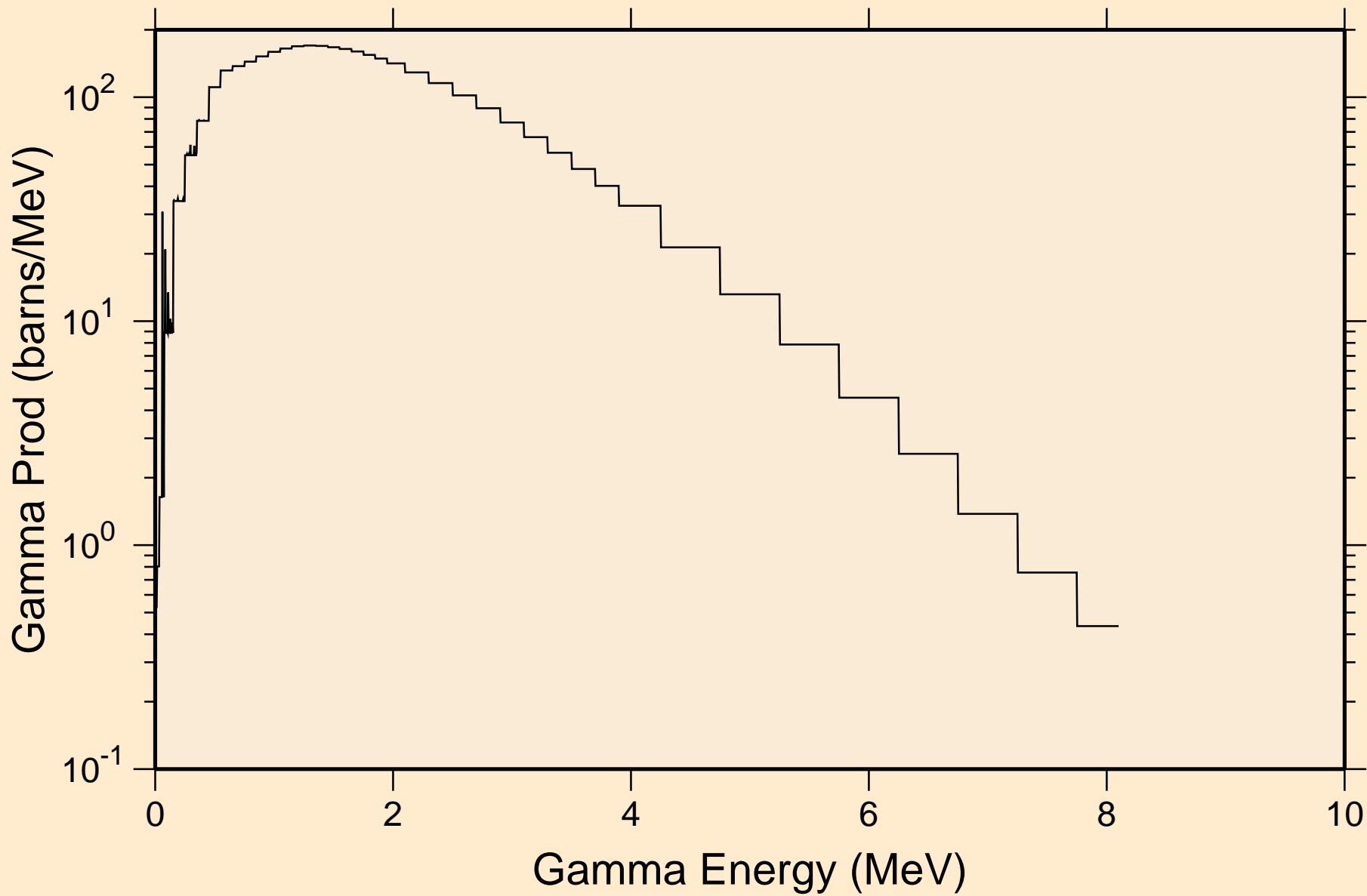
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Photon emission for (n,pt)



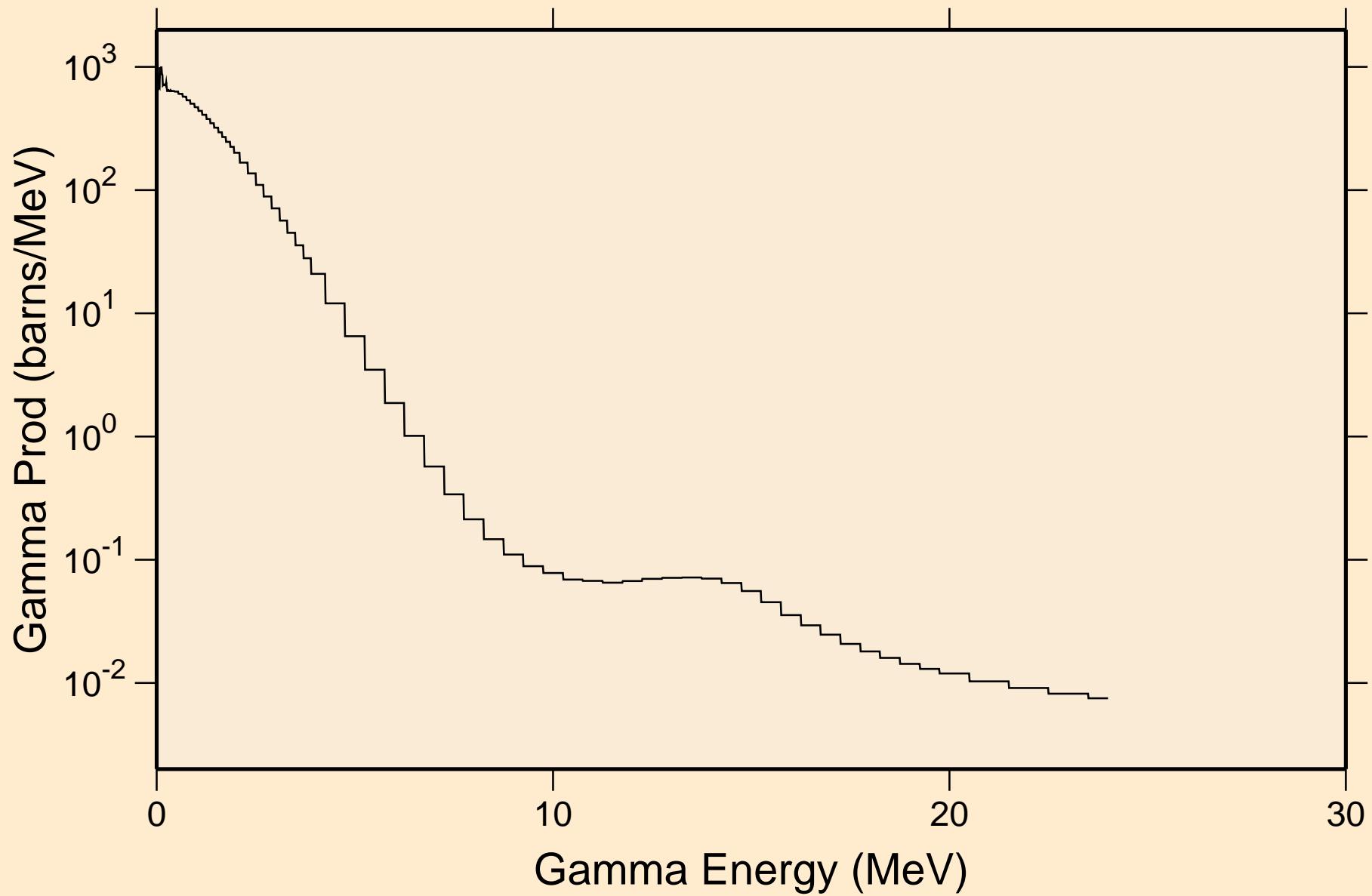
N-TB156 NRG TENDL-2017, AKONING  
Photon emission for (n,da)



N-TB156 NRG TENDL-2017, AKONING  
thermal capture photon spectrum

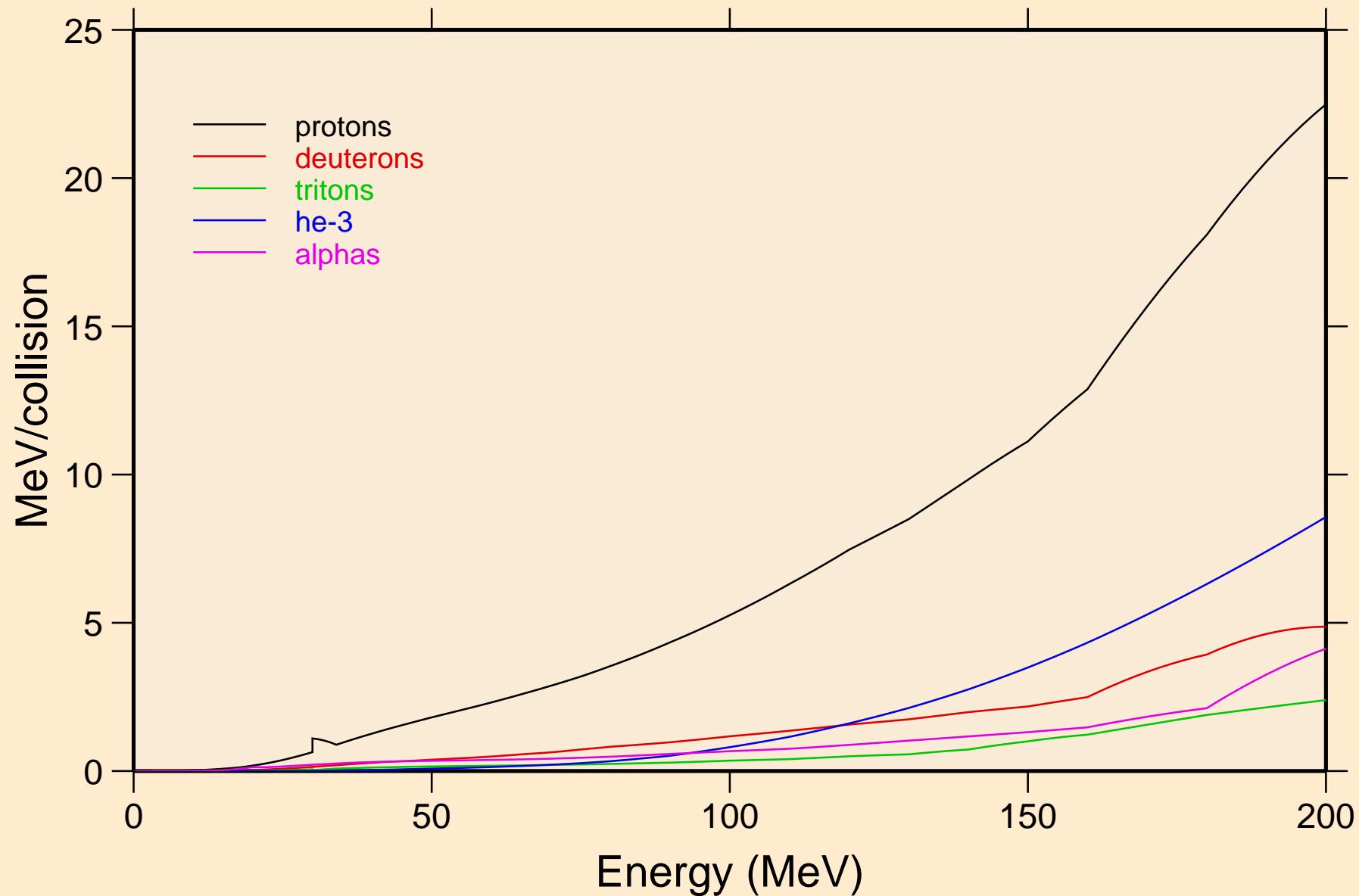


N-TB156 NRG TENDL-2017, AKONING  
14 MeV photon spectrum



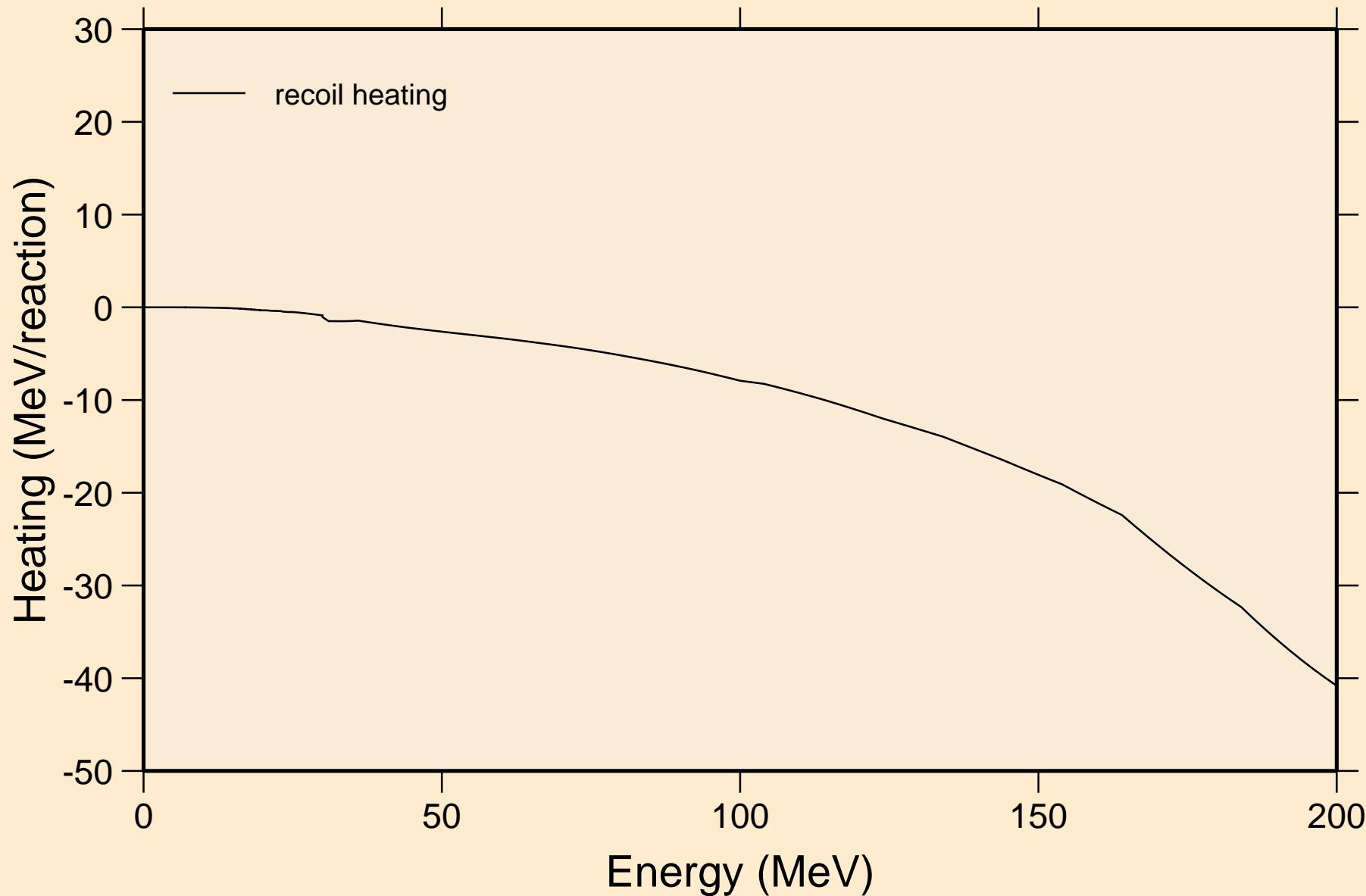
# N-TB156 NRG TENDL-2017, AKONING

## Particle heating contributions

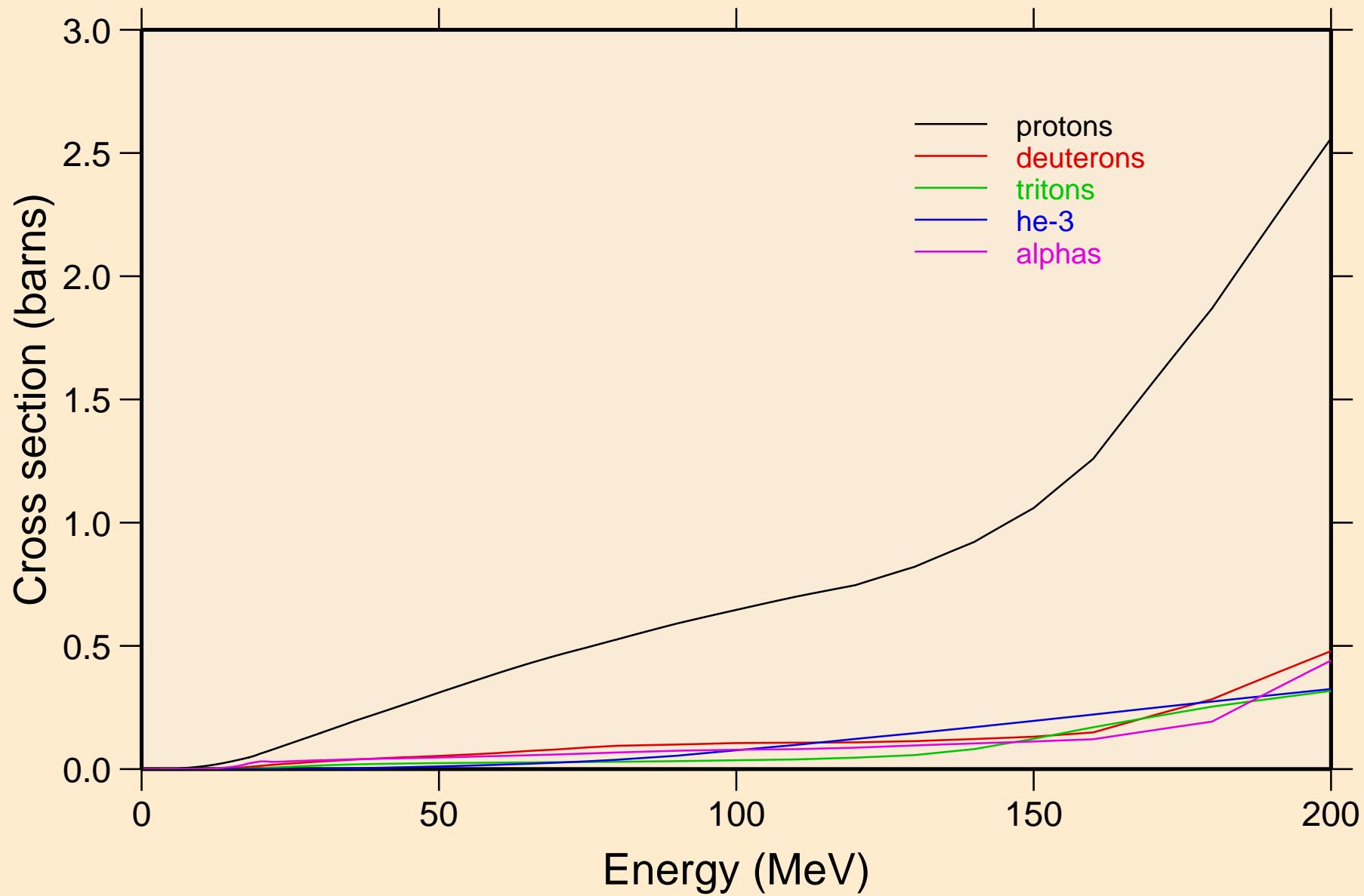


# N-TB156 NRG TENDL-2017, AKONING

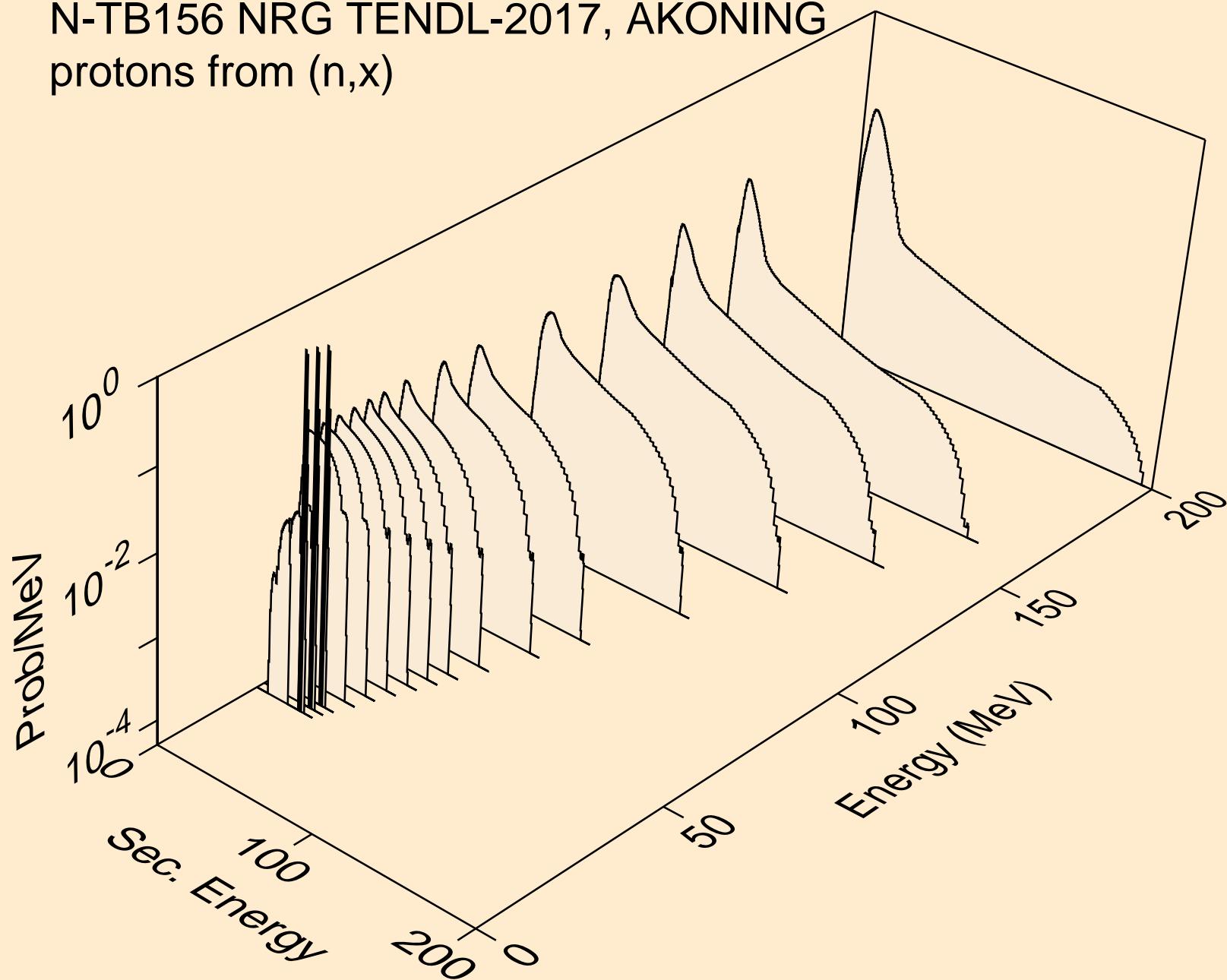
## Recoil Heating



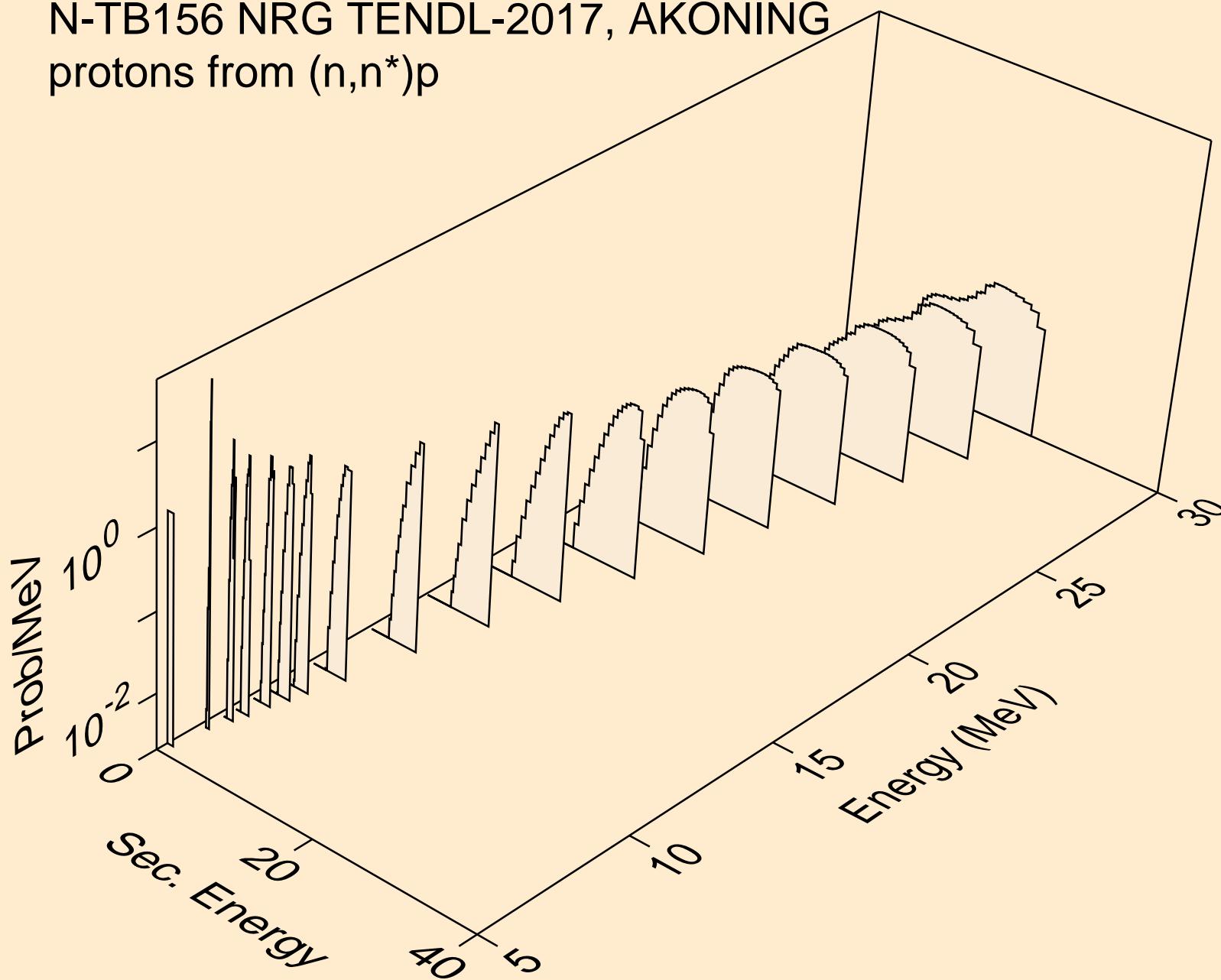
N-TB156 NRG TENDL-2017, AKONING  
Particle production cross sections



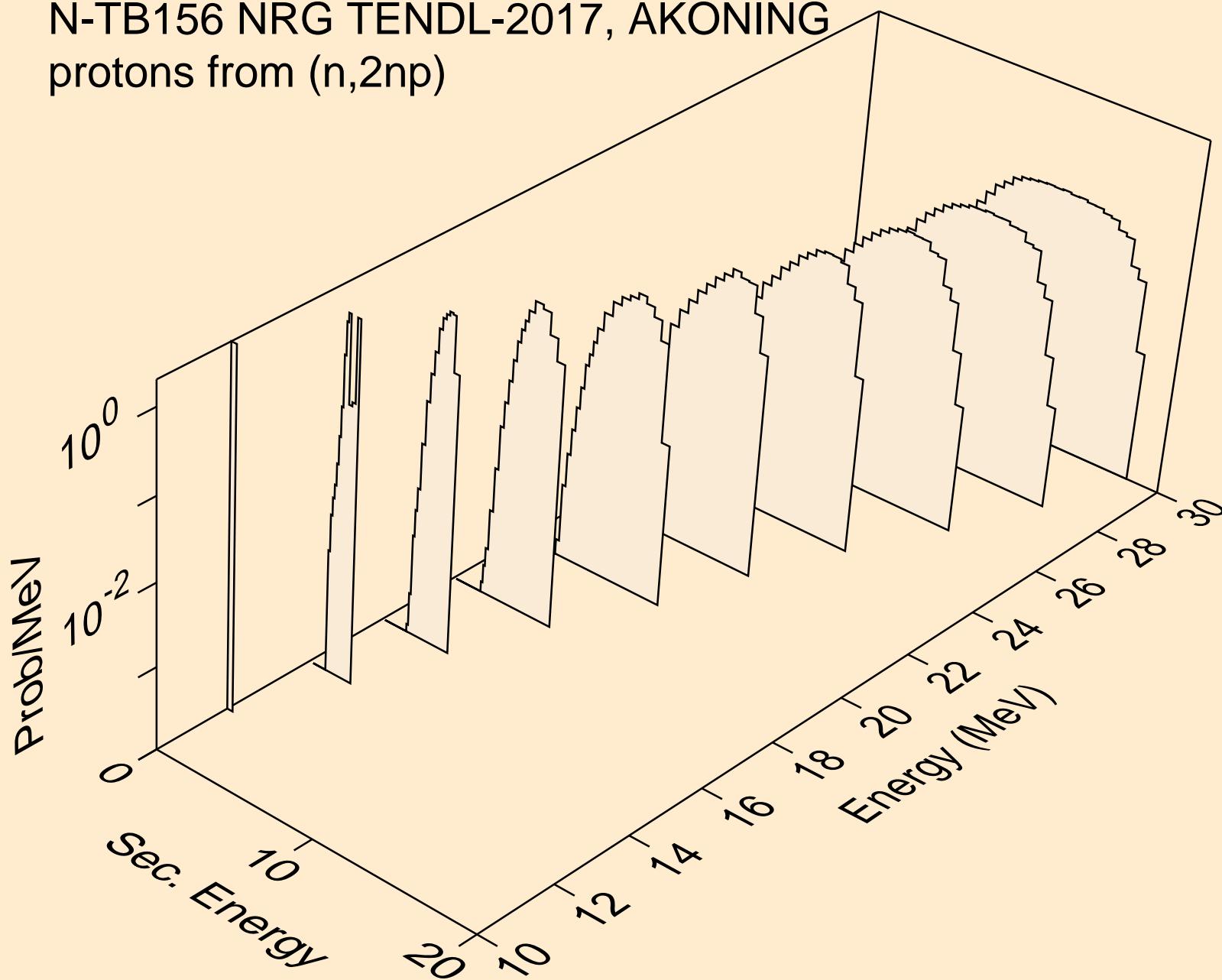
N-TB156 NRG TENDL-2017, AKONING  
protons from ( $n,x$ )



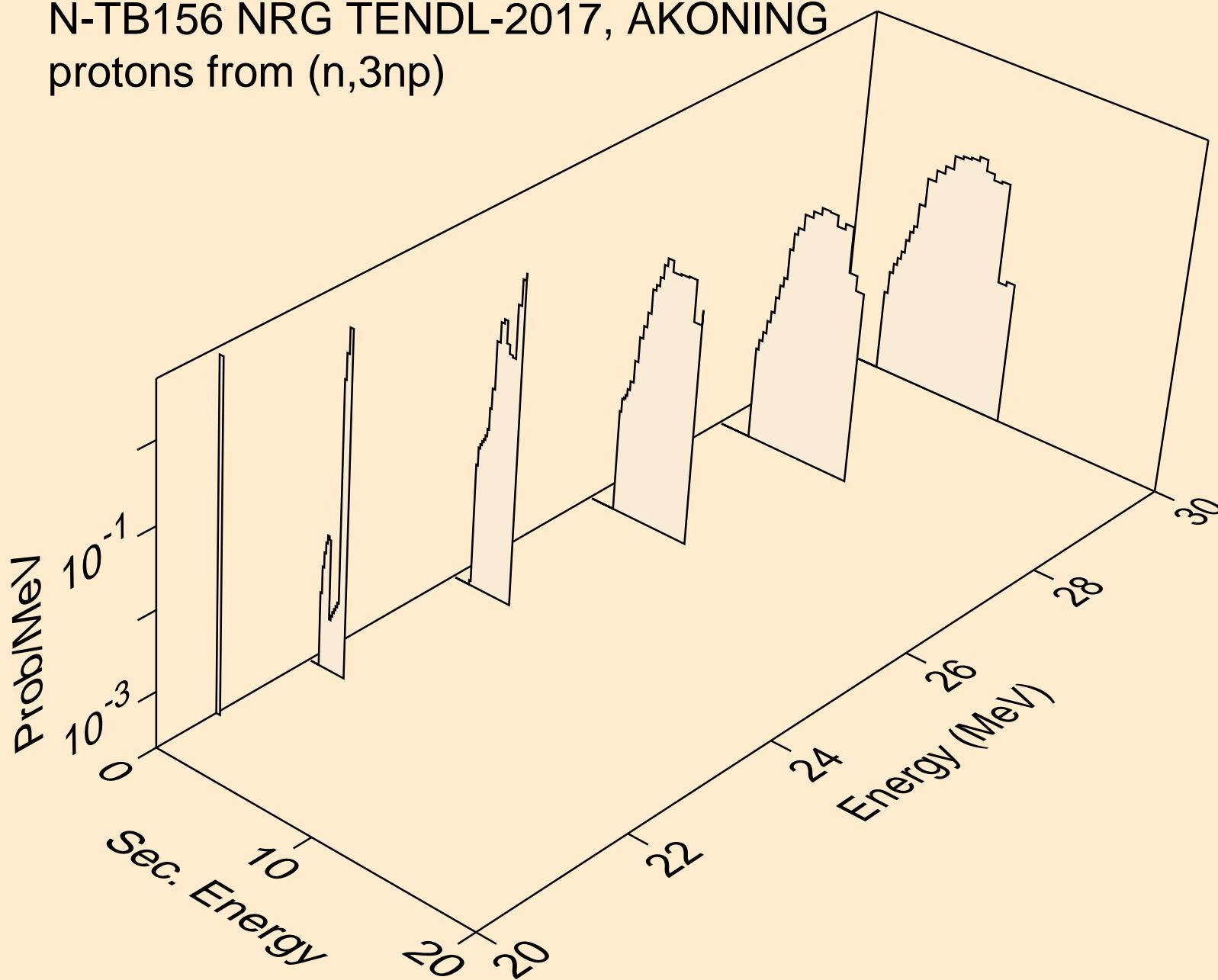
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protons from  $(n,n^*)p$



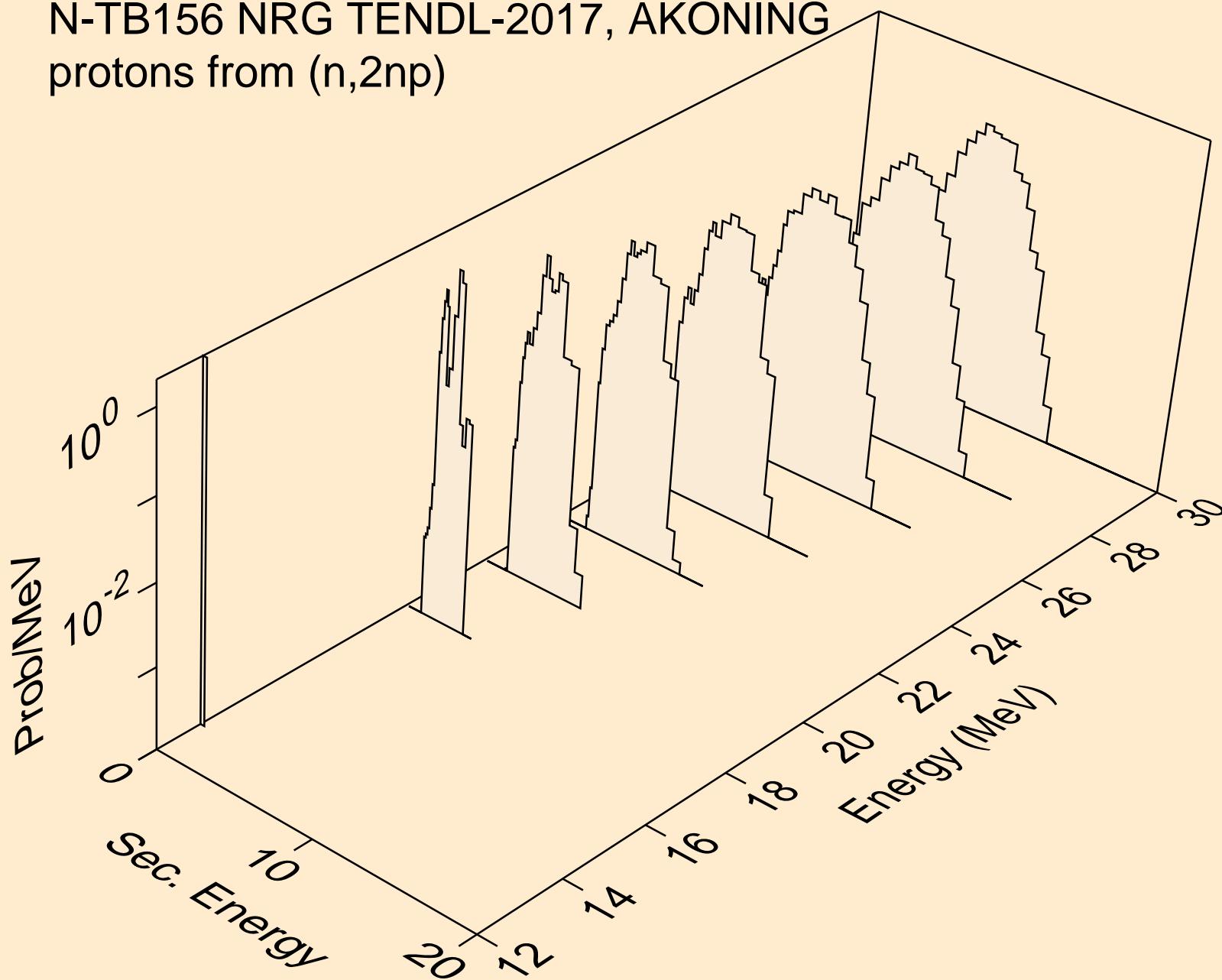
N-TB156 NRG TENDL-2017, AKONING  
protons from ( $n,2np$ )



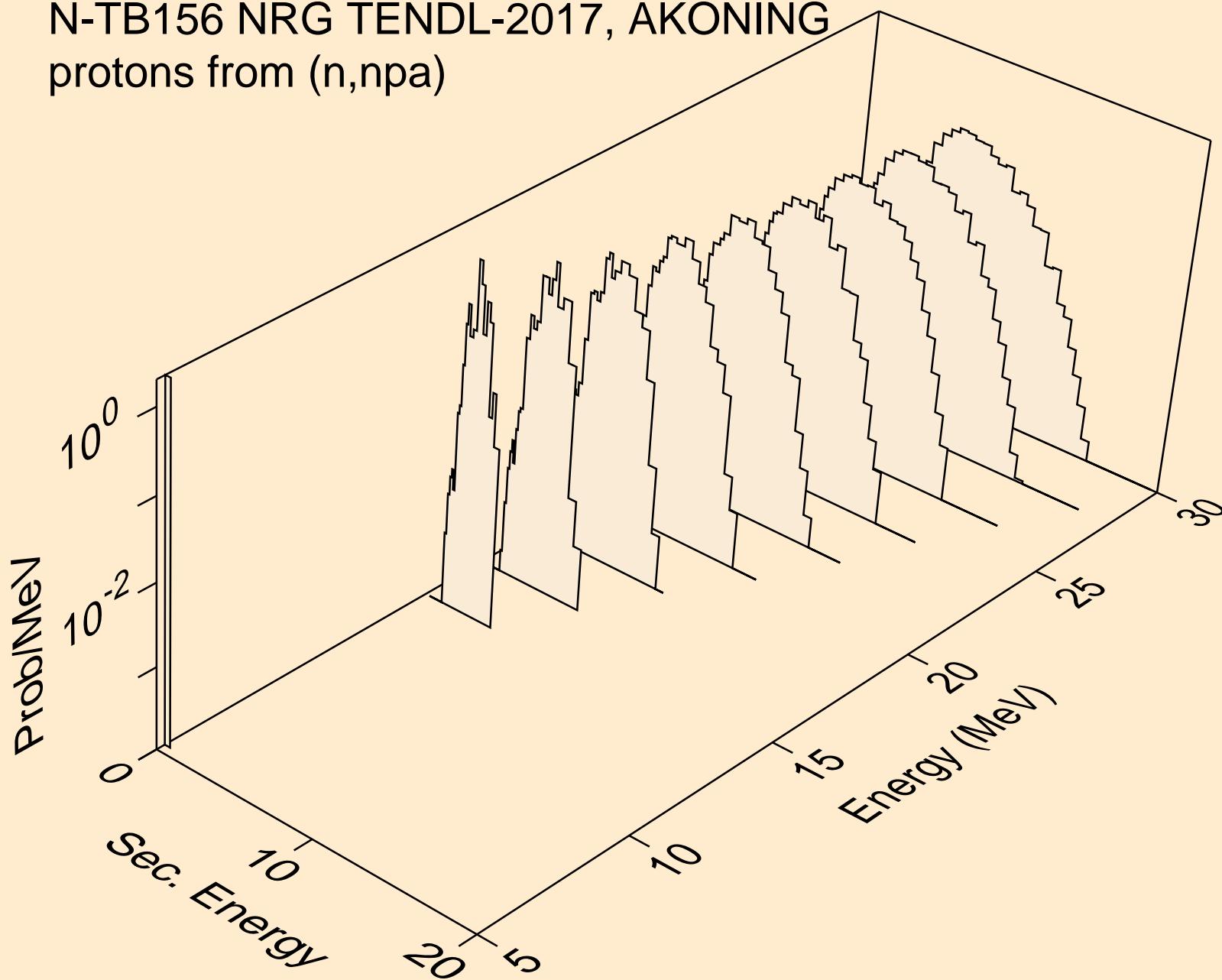
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protons from ( $n,3np$ )



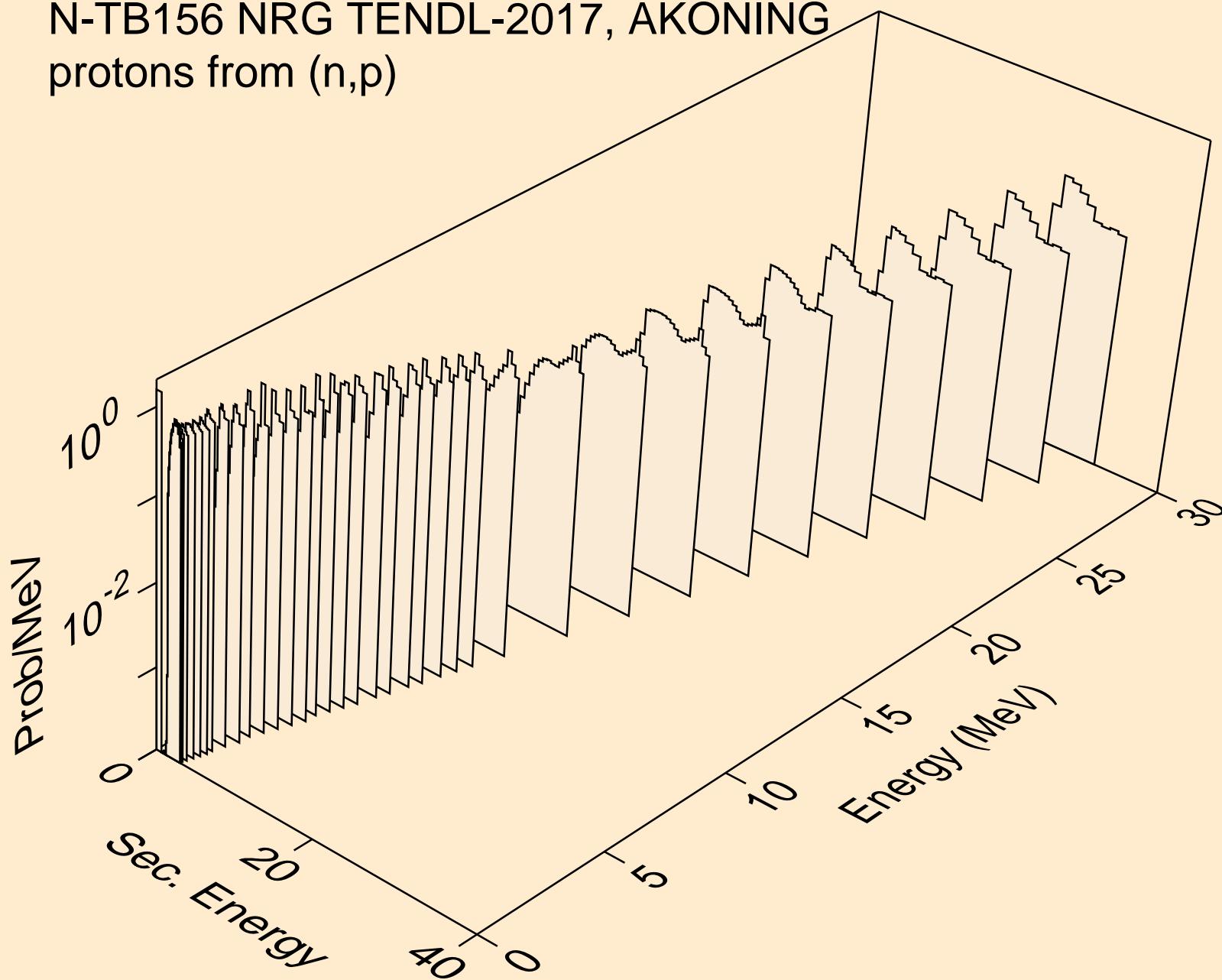
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protons from ( $n,2np$ )



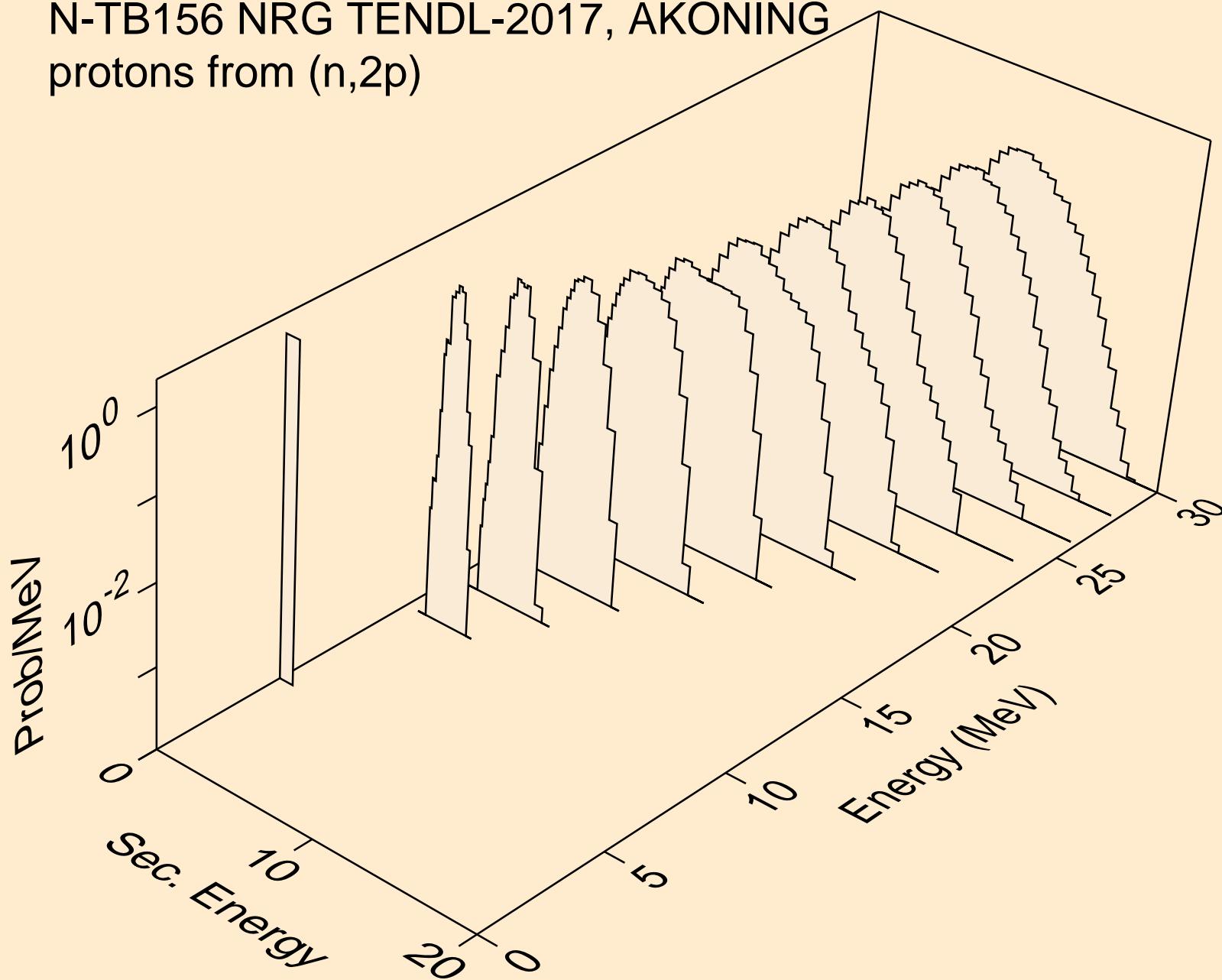
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protons from (n,npa)



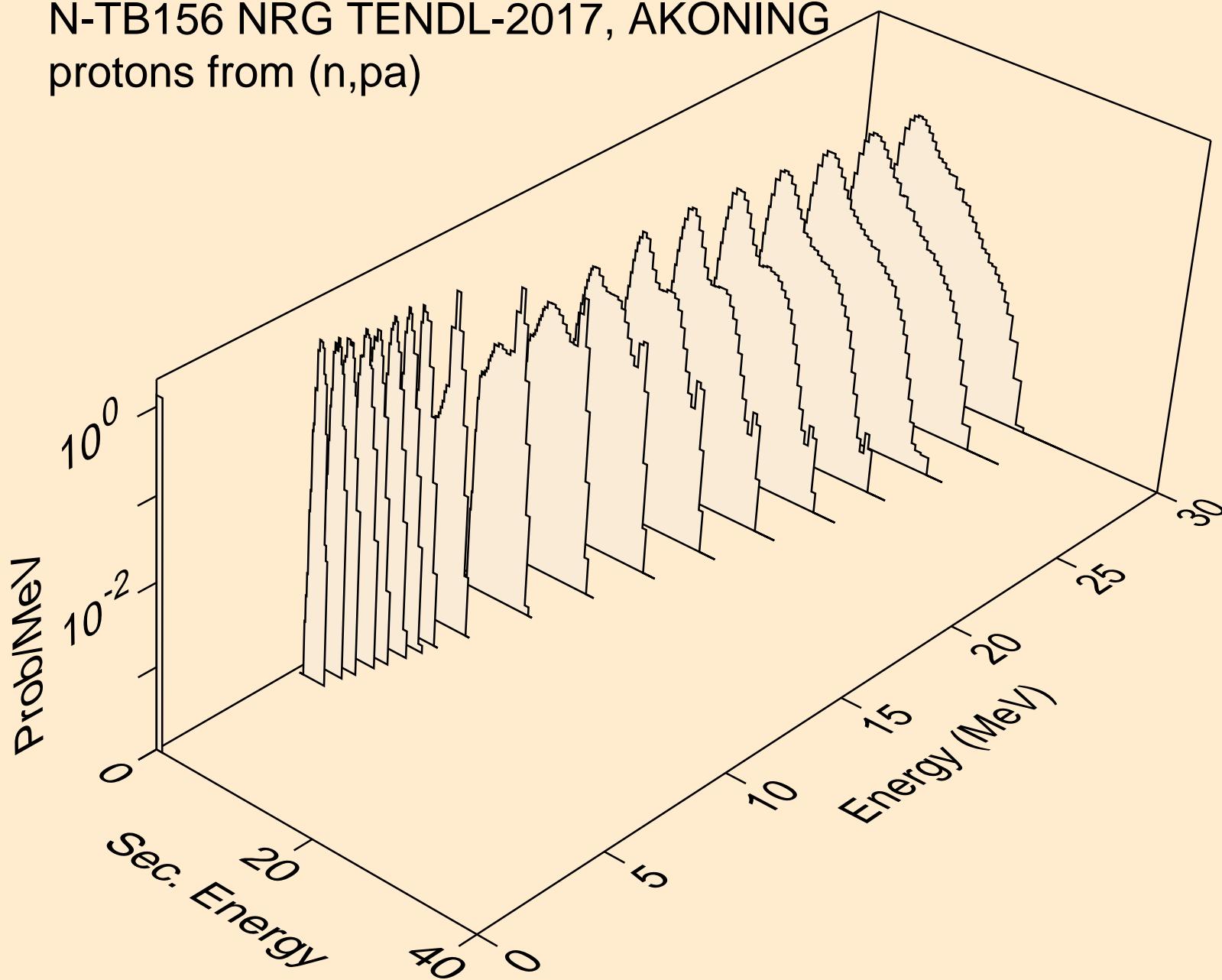
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protons from ( $n,p$ )



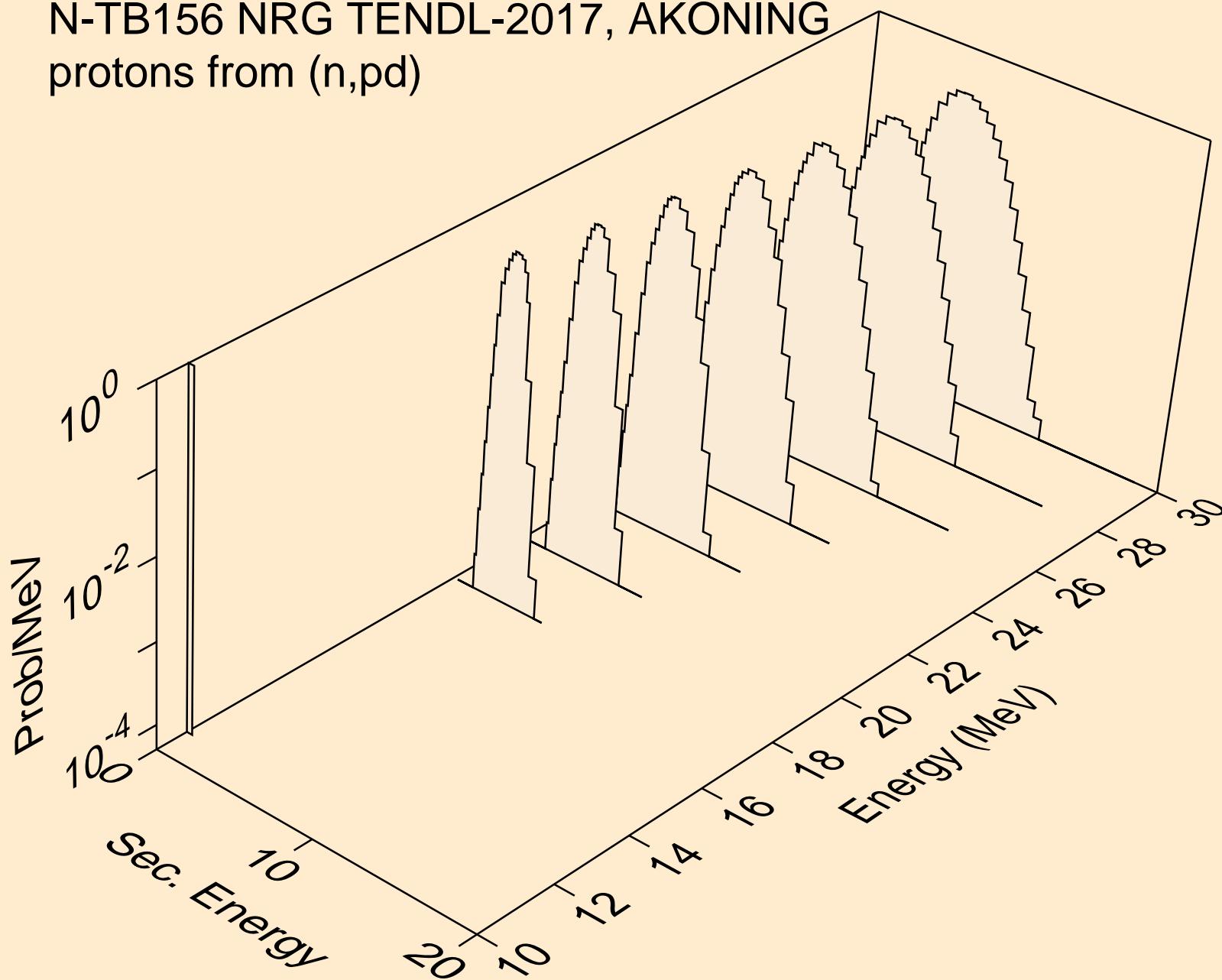
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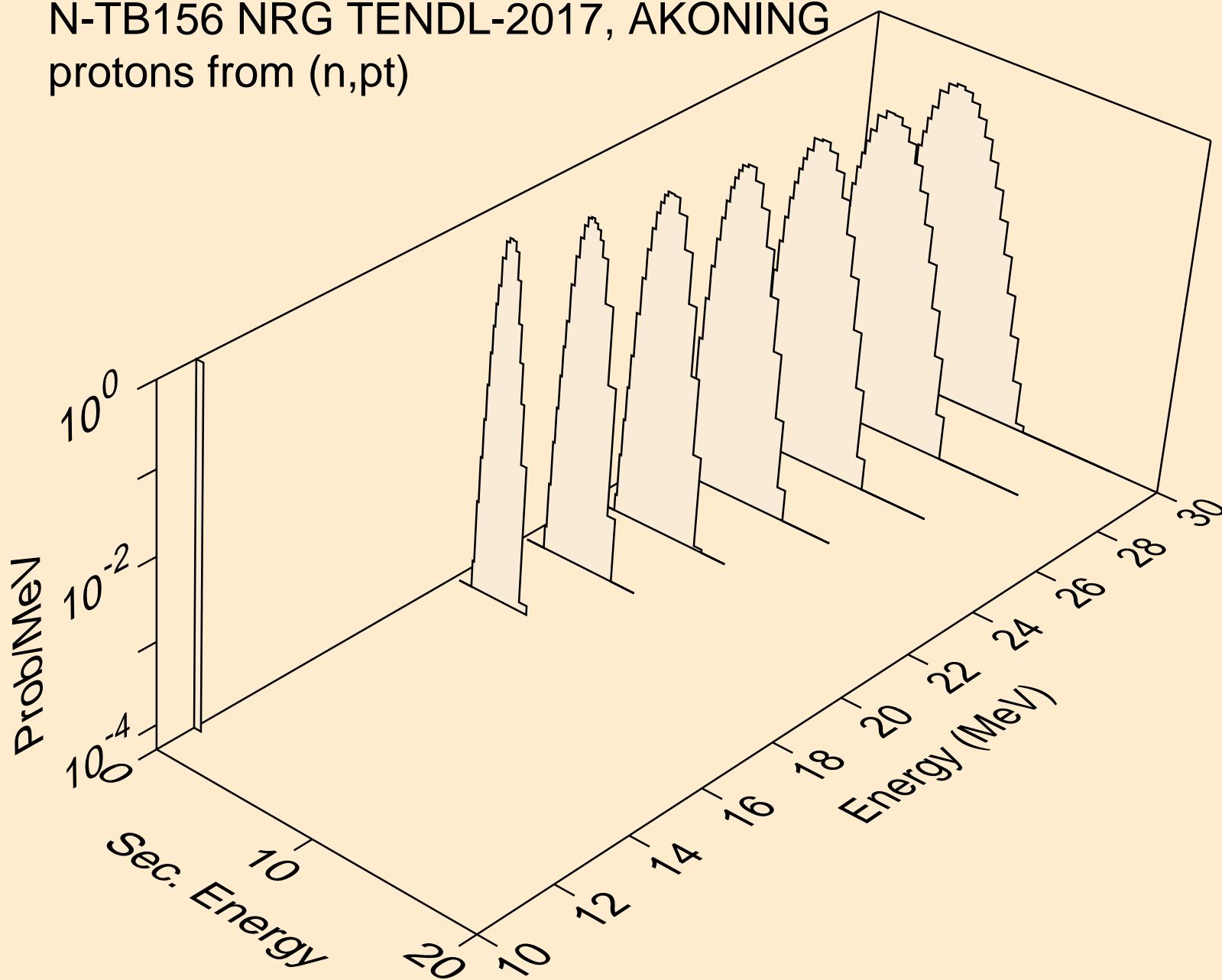
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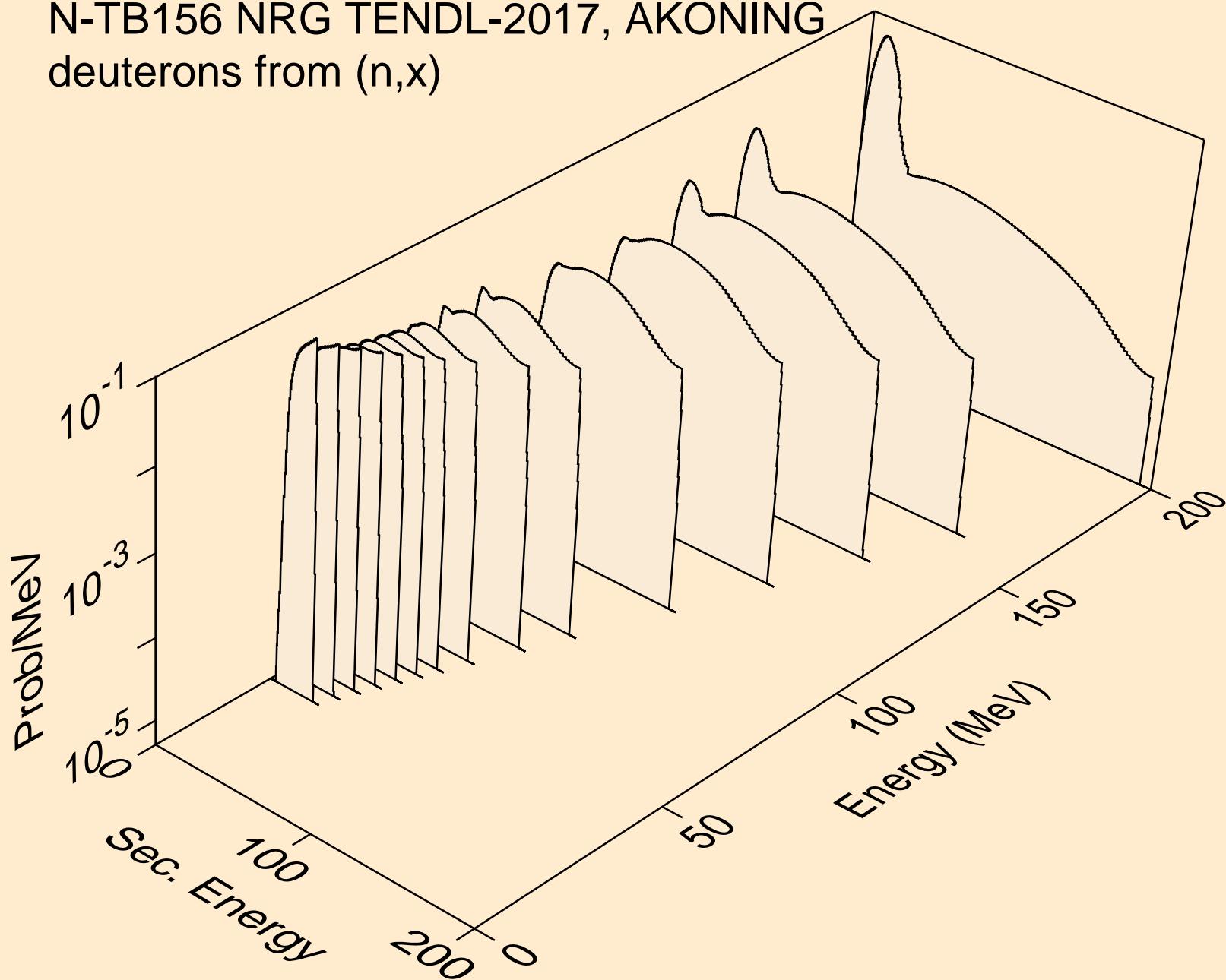
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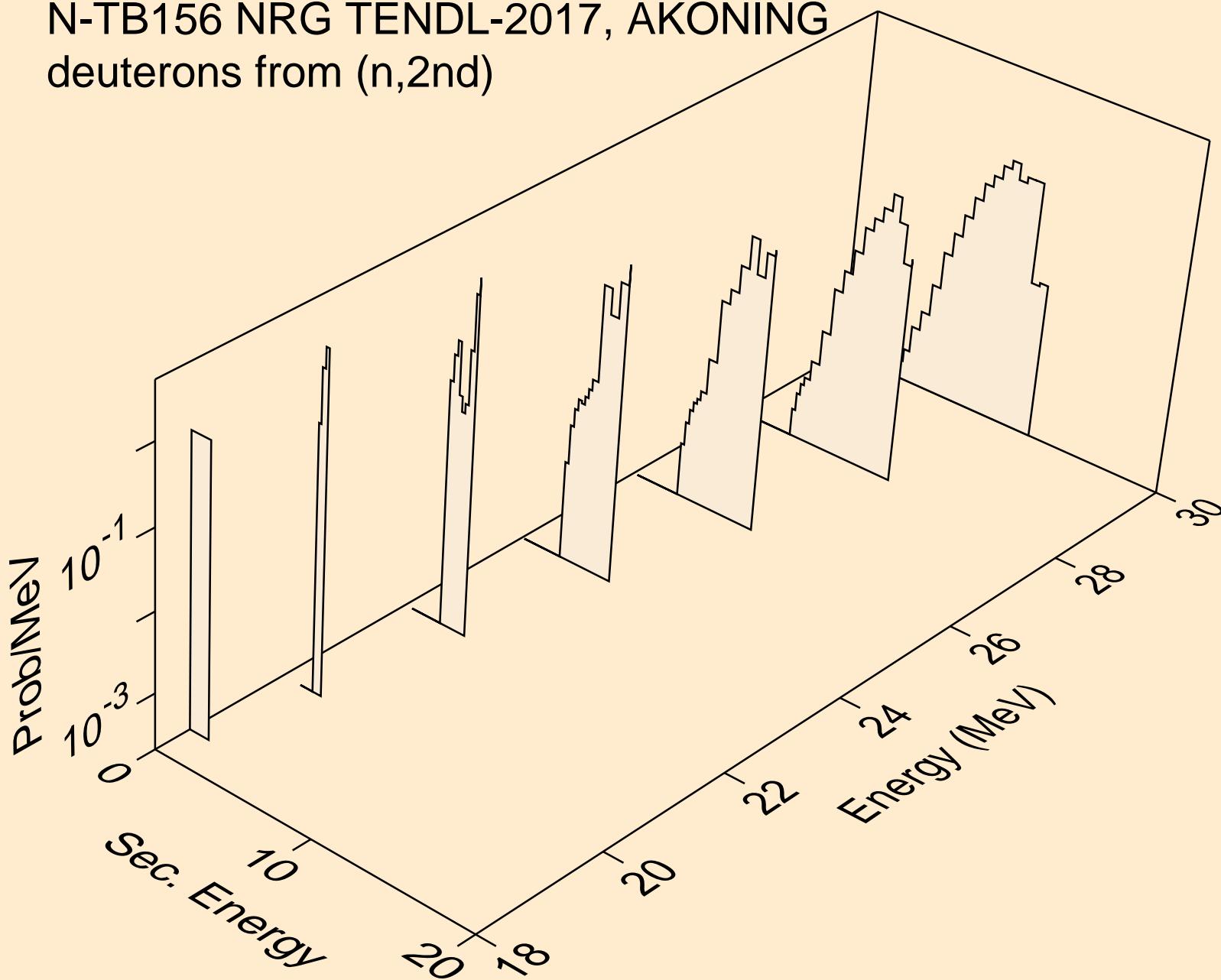
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protons from (n,pt)



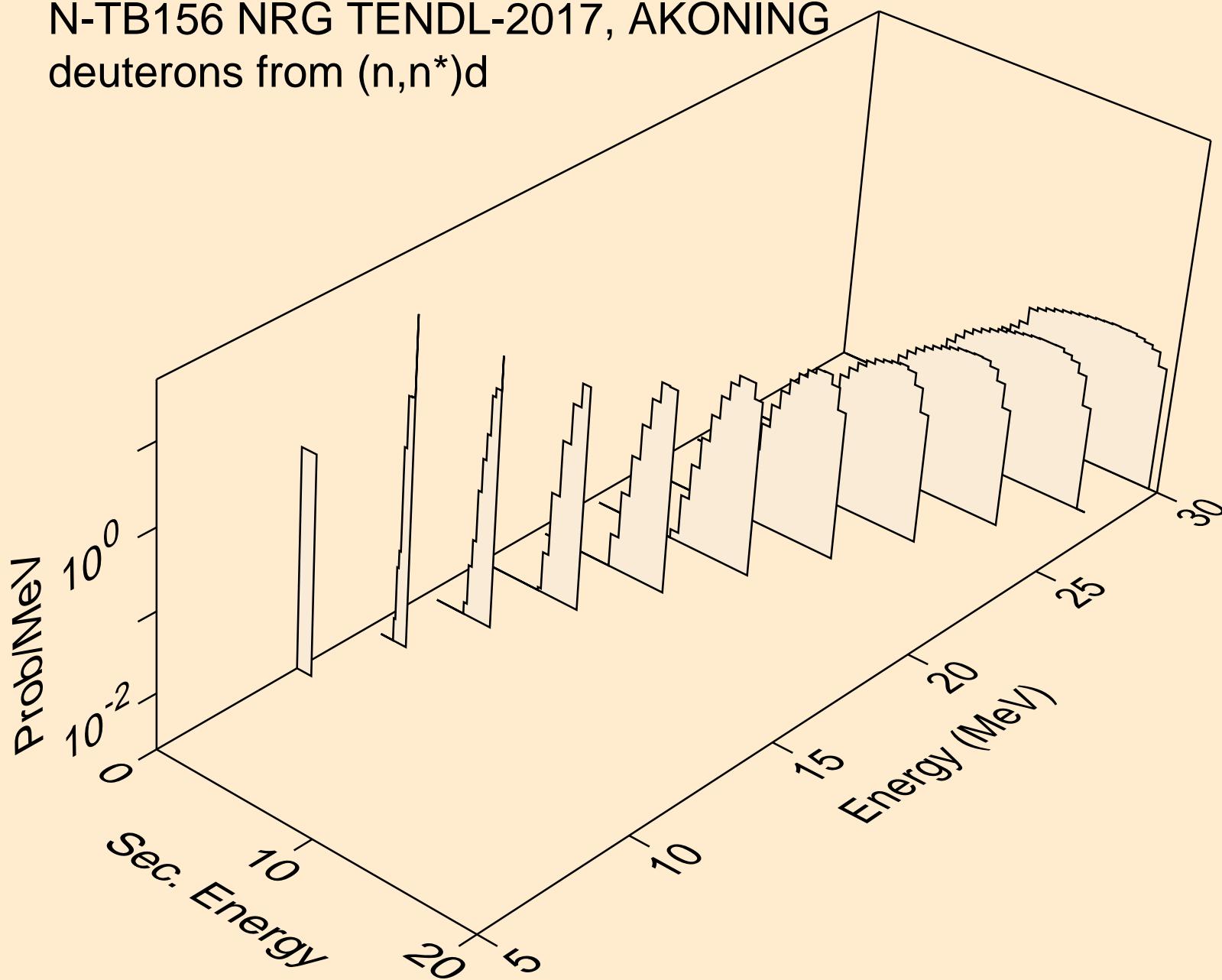
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deuterons from ( $n,x$ )



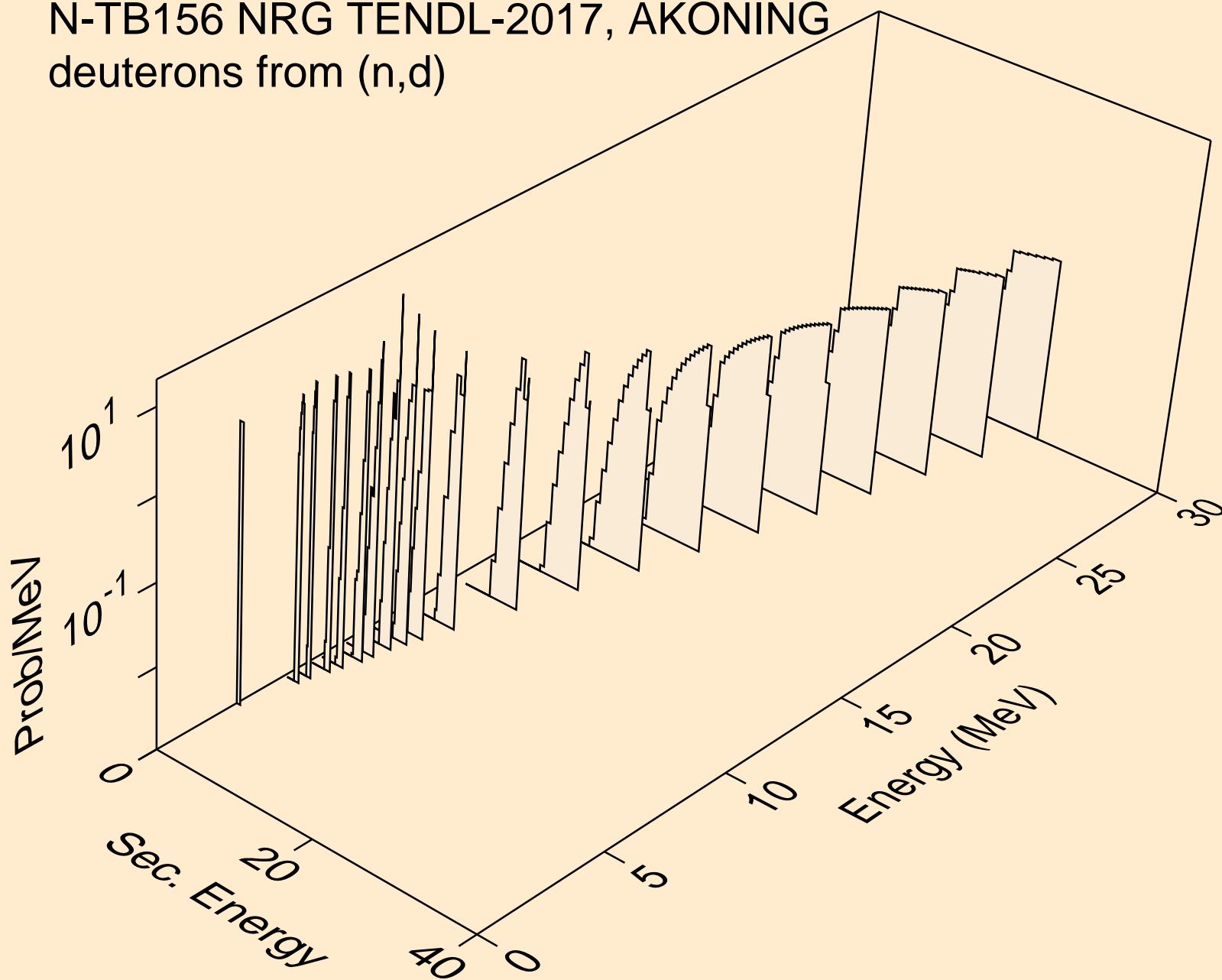
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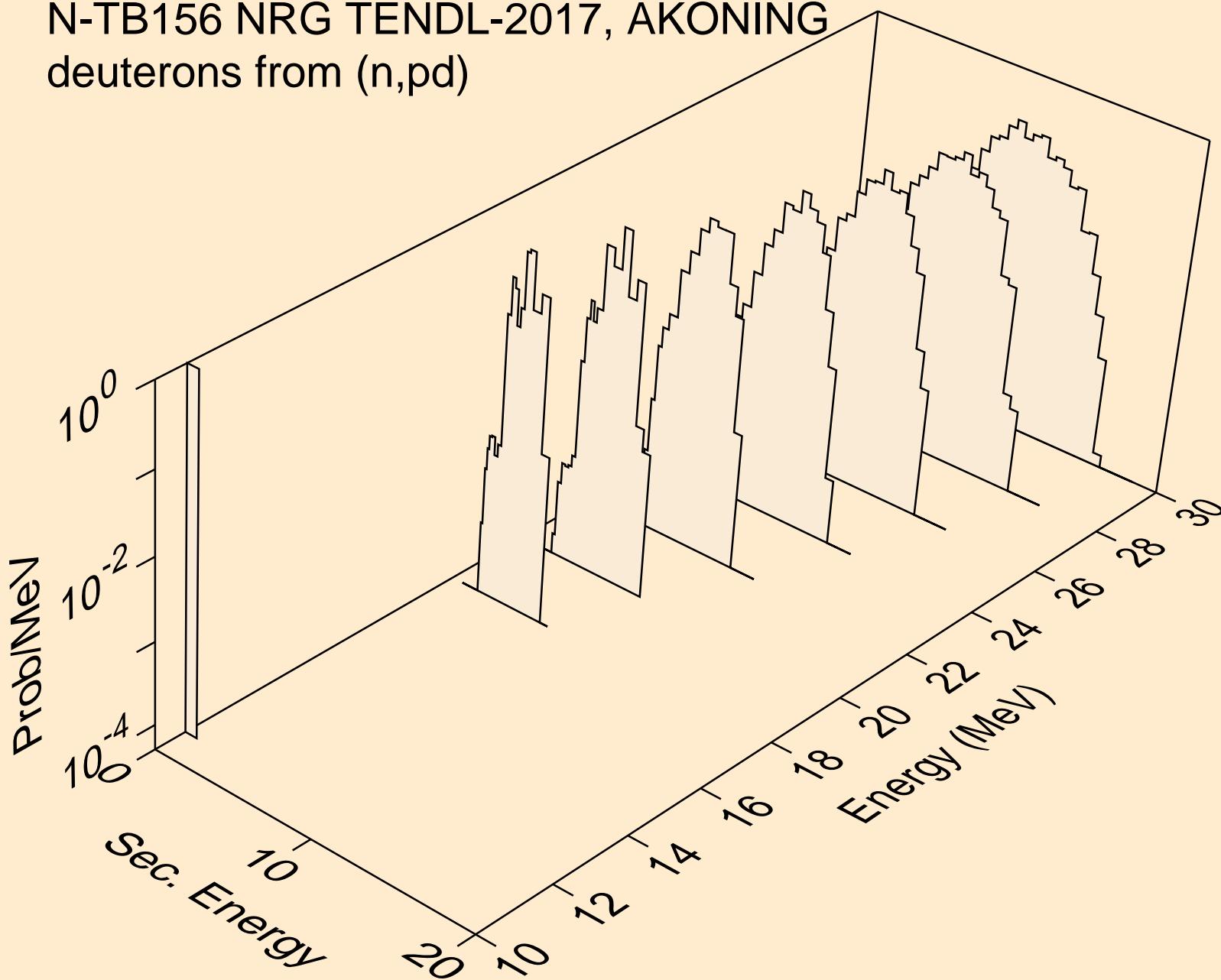
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deuterons from  $(n,n^*)d$



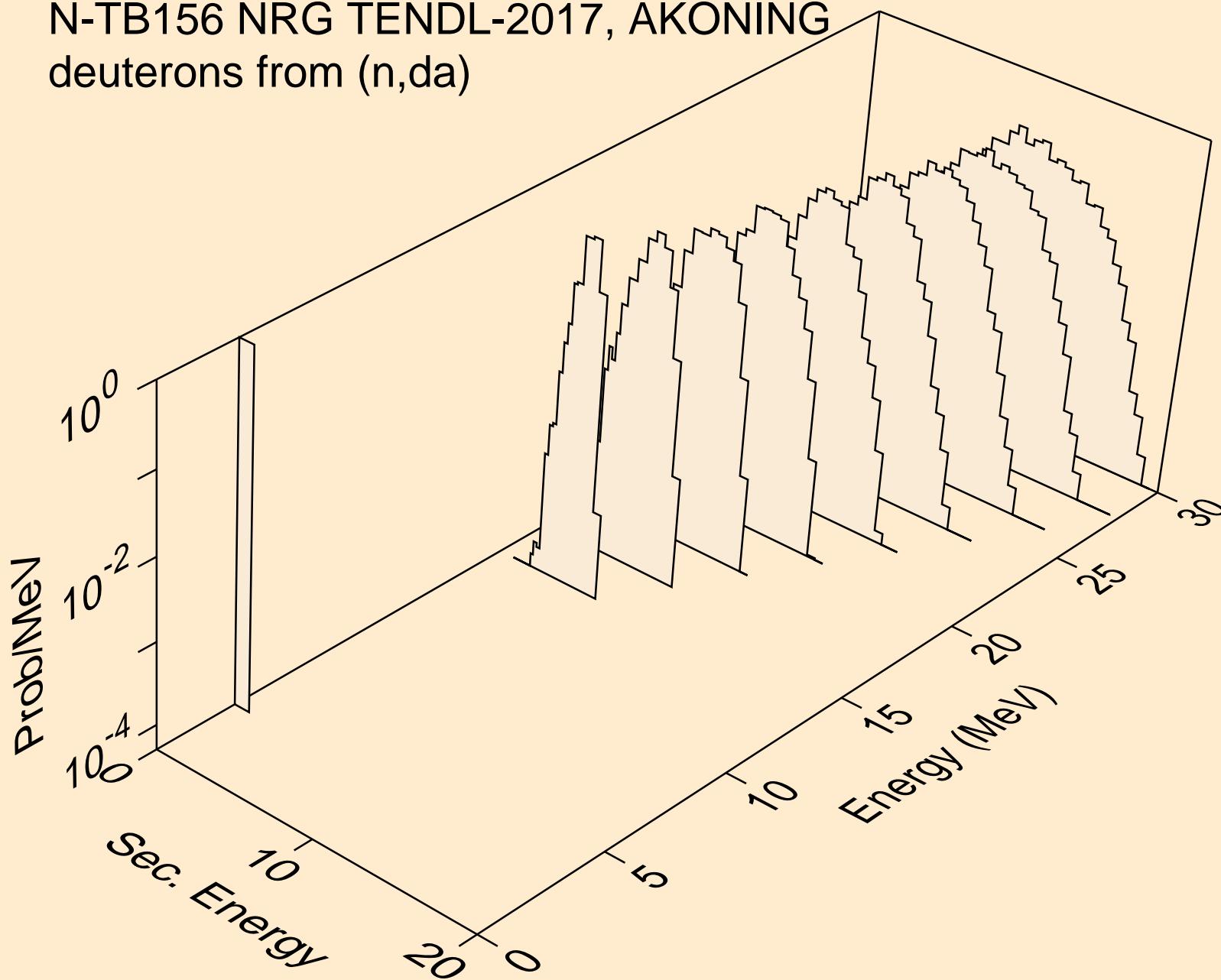
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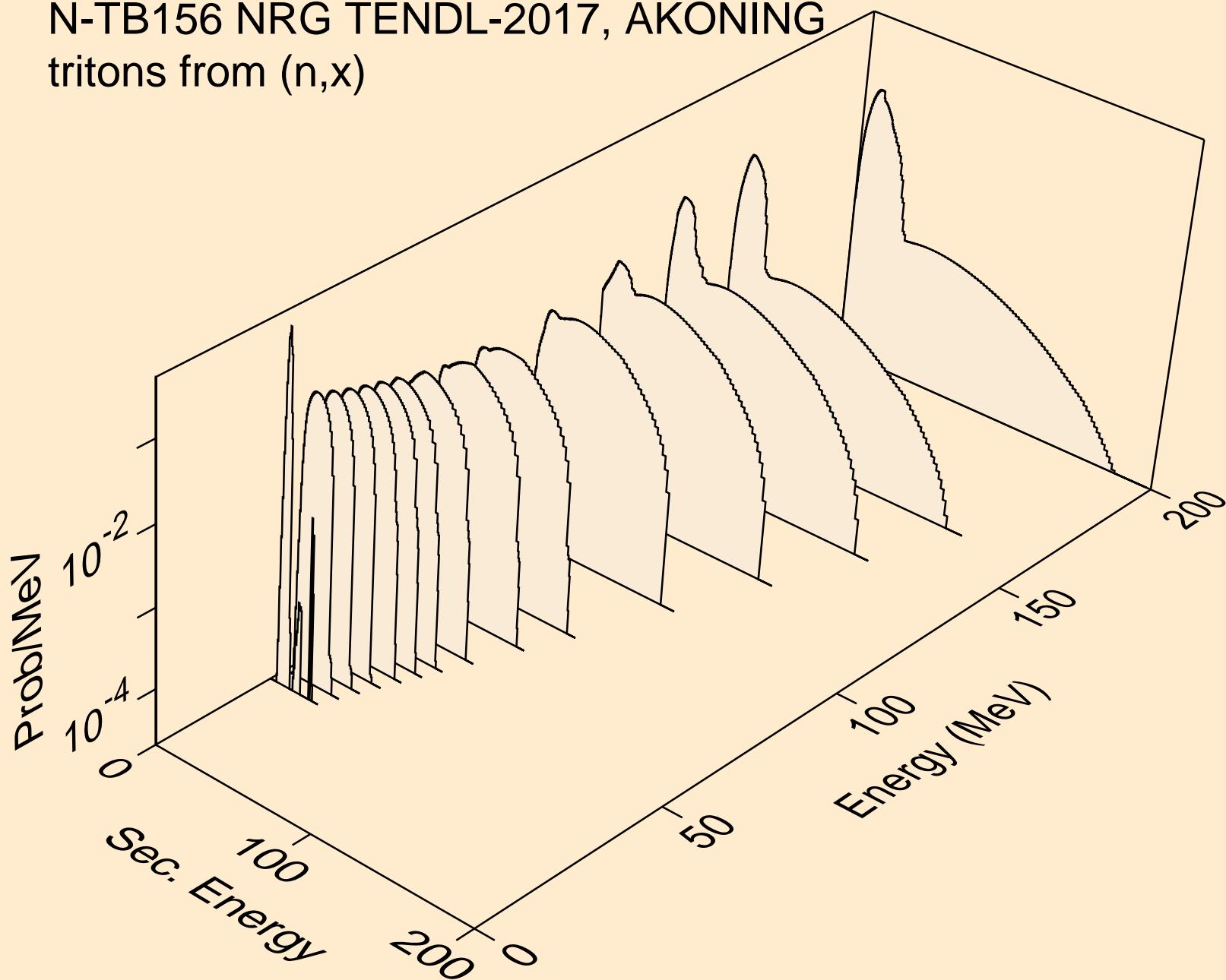
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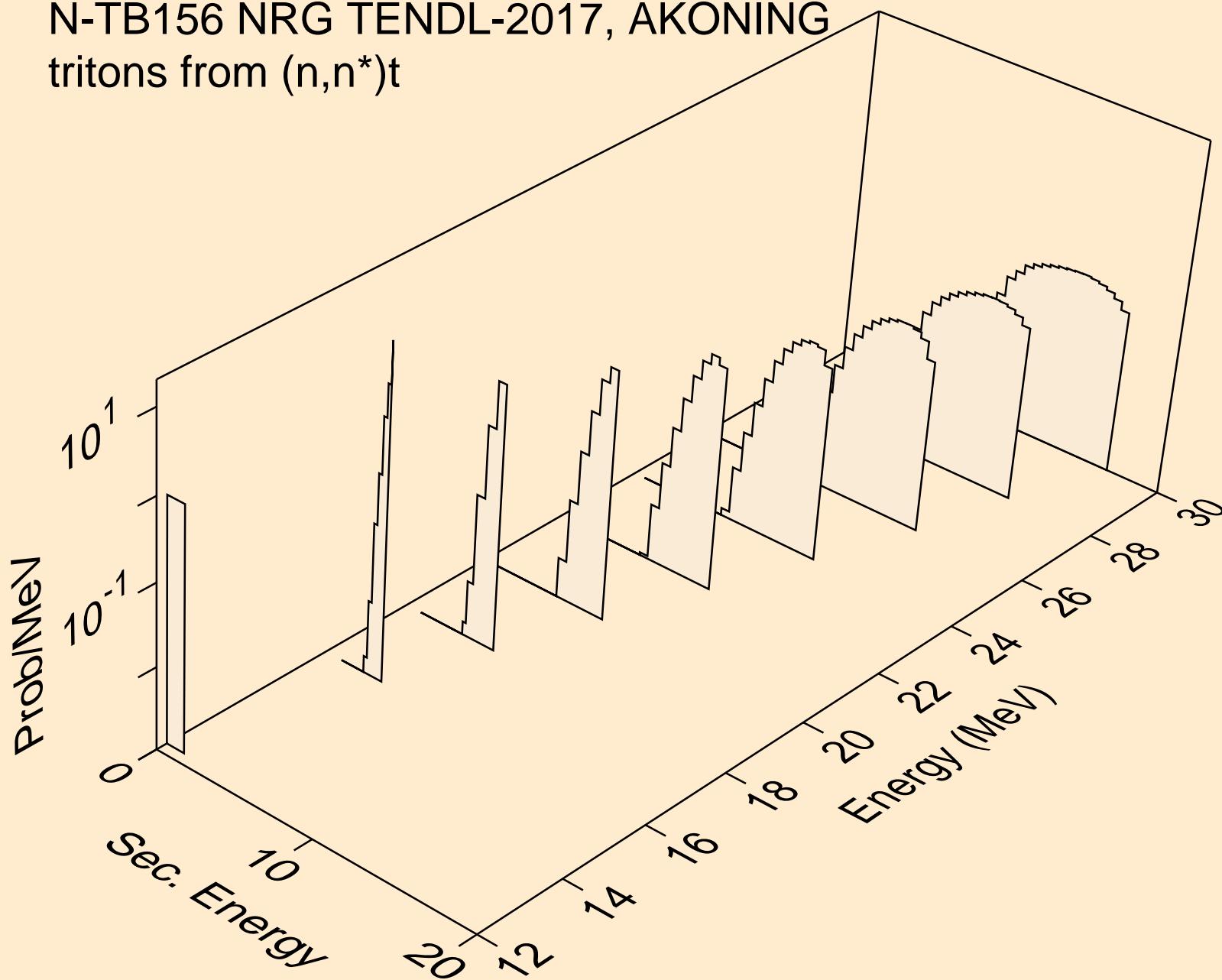
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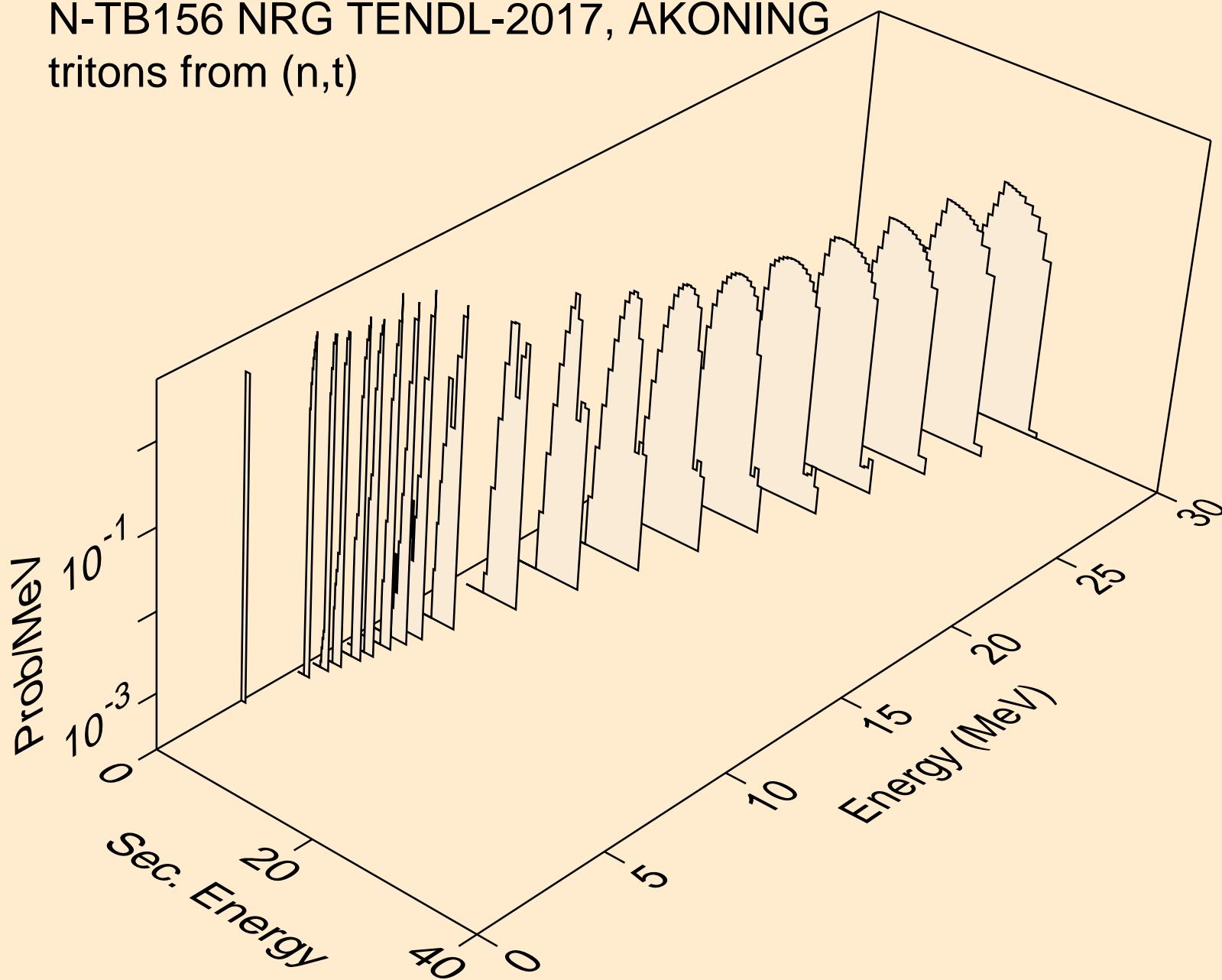
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tritons from ( $n,x$ )



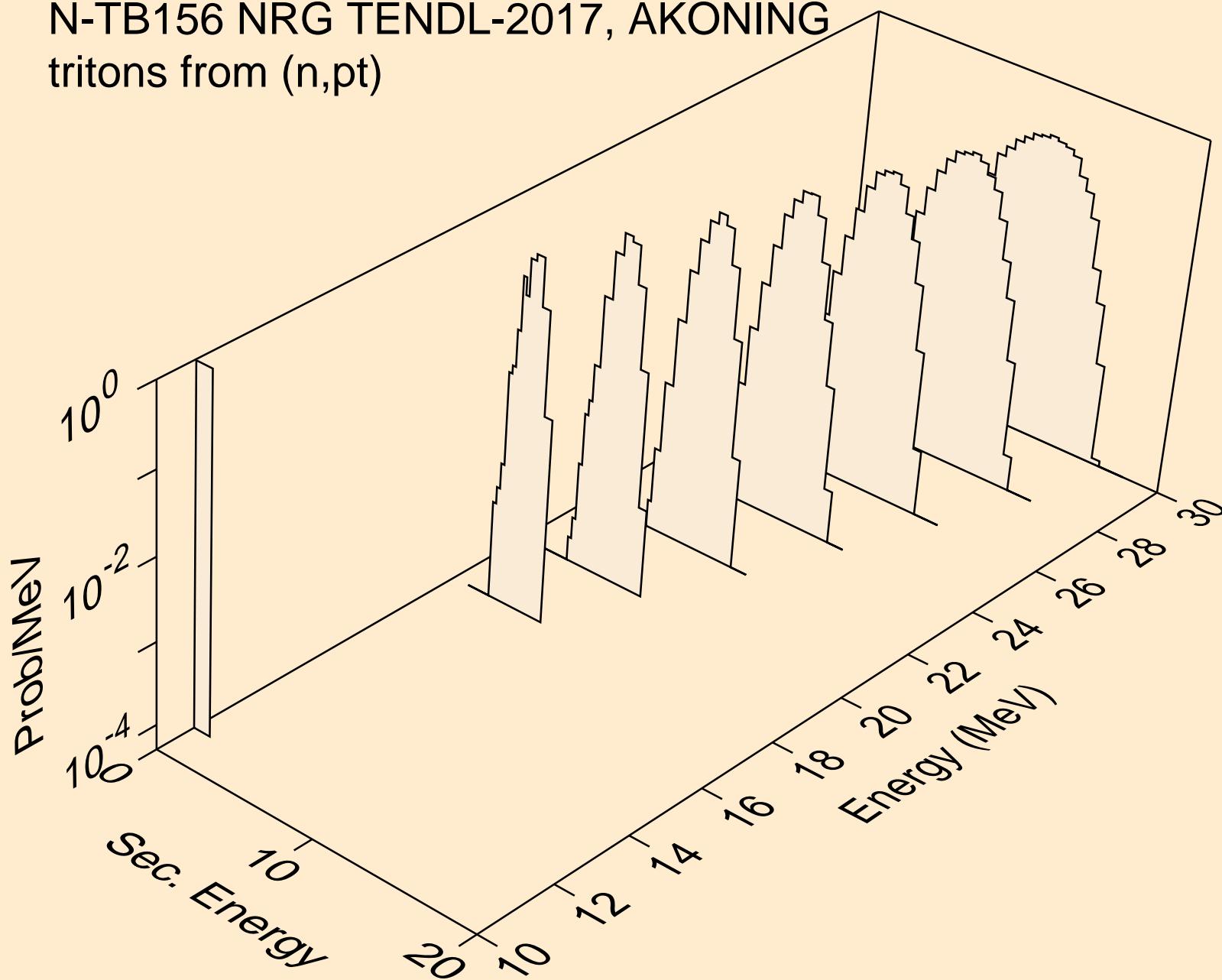
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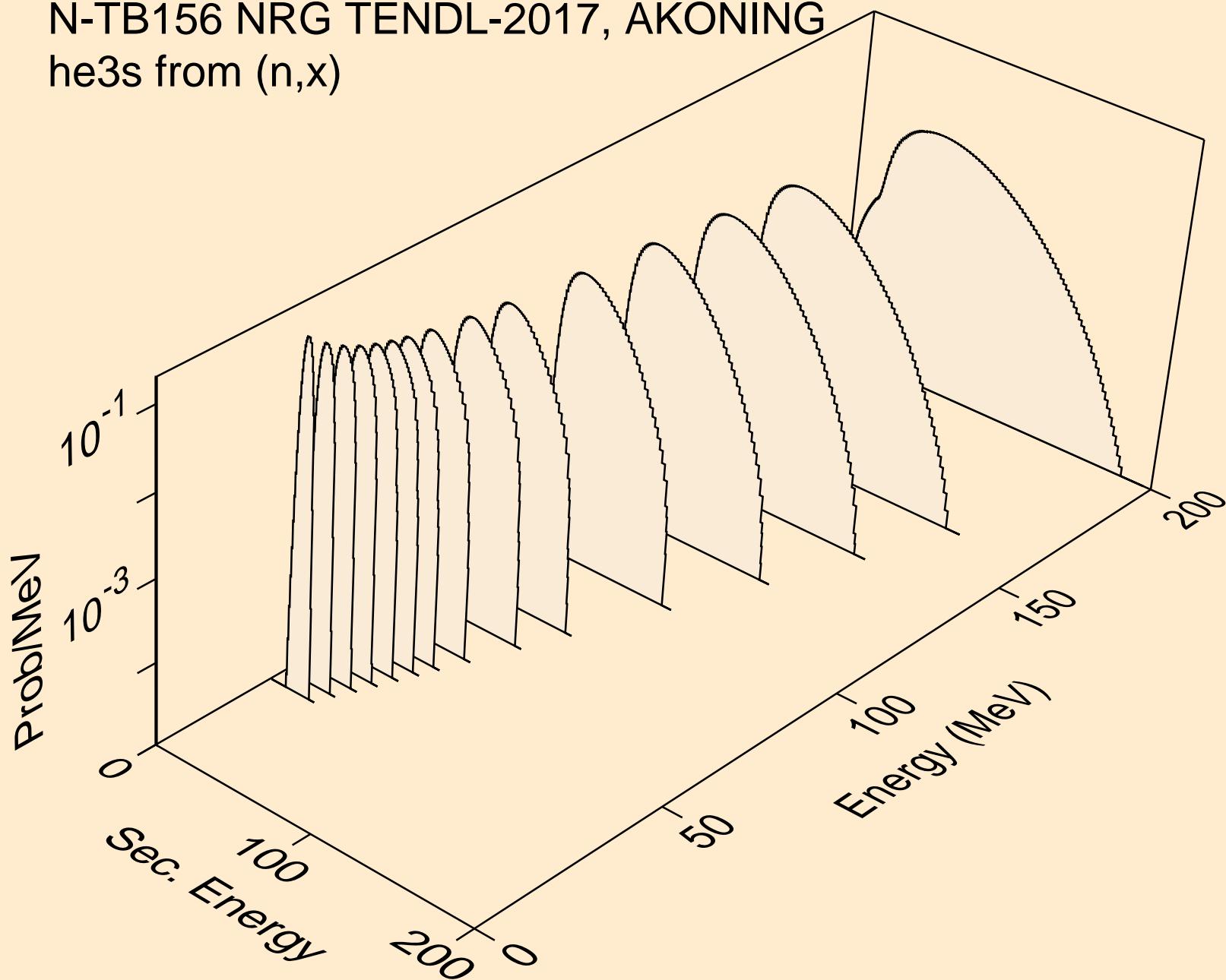
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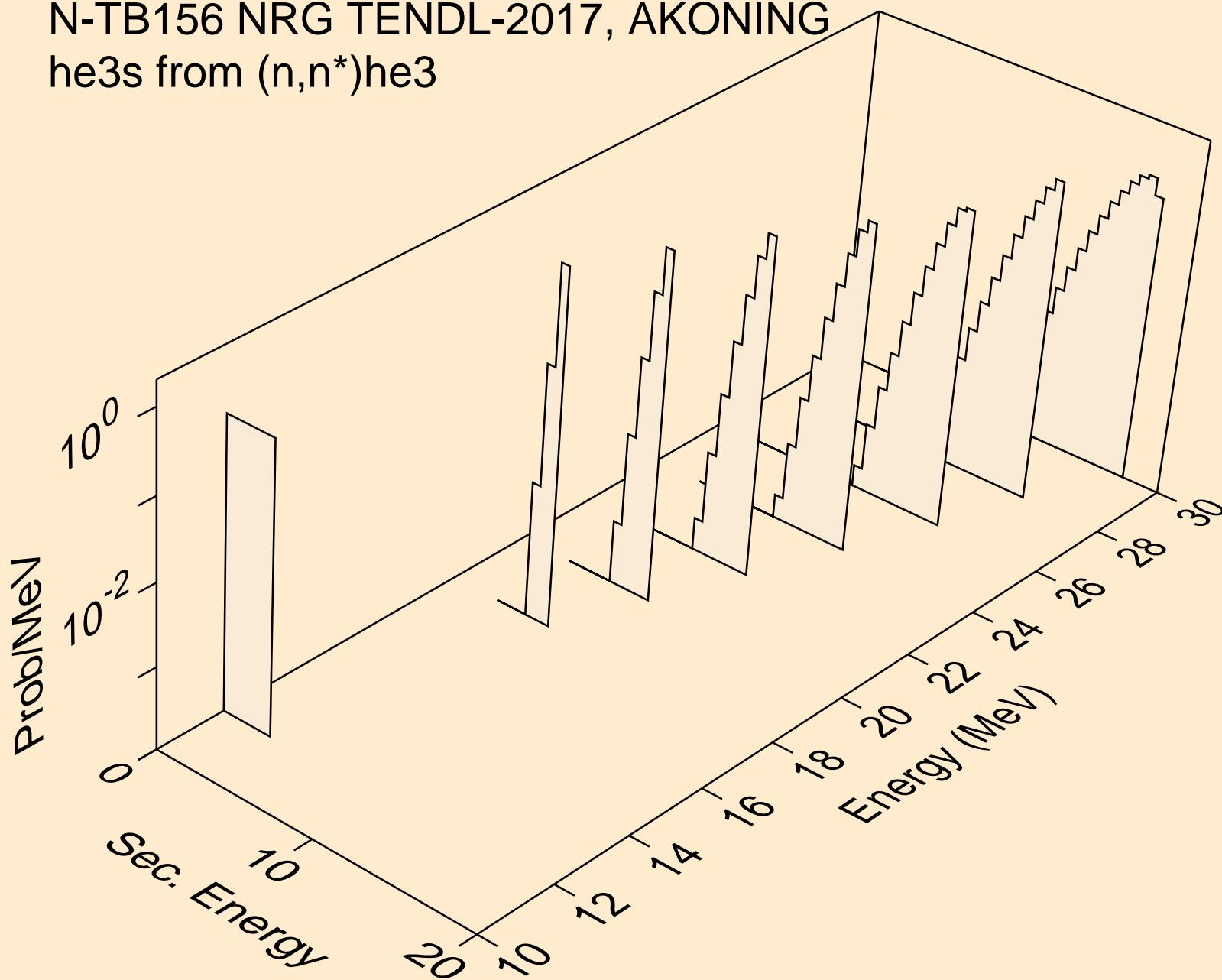
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tritons from (n,pt)



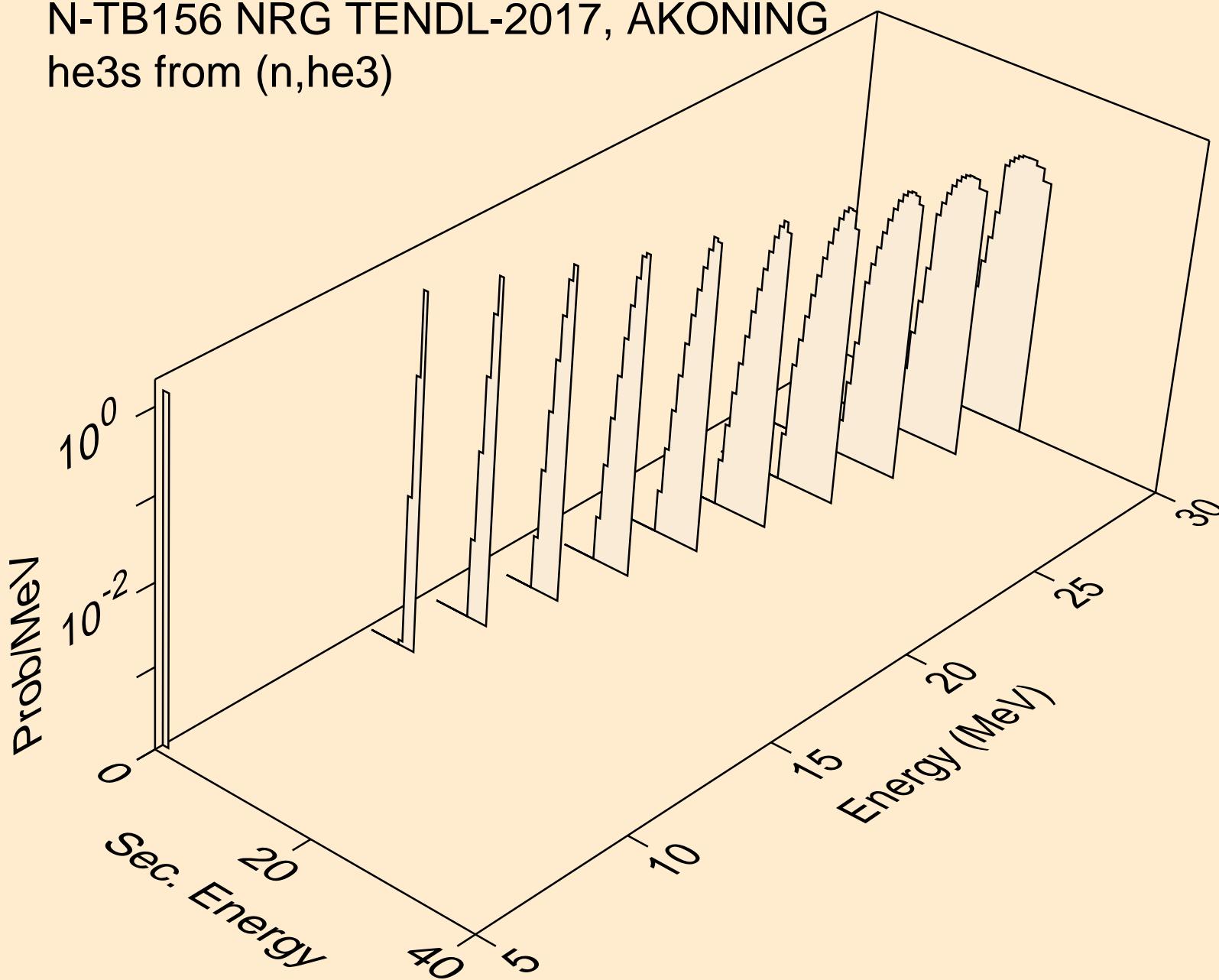
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he3s from (n,x)



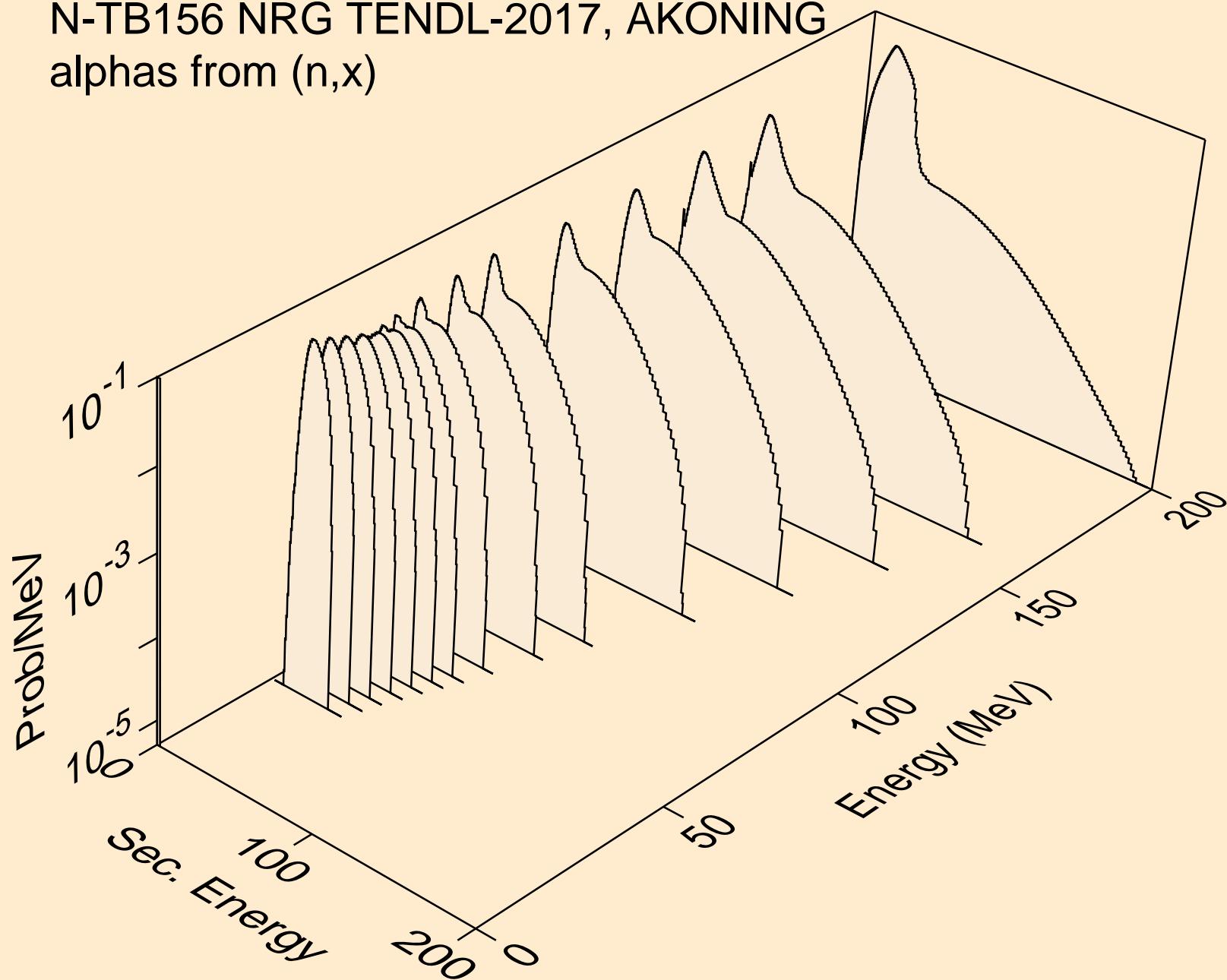
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he3s from  $(n,n^*)\text{he3}$



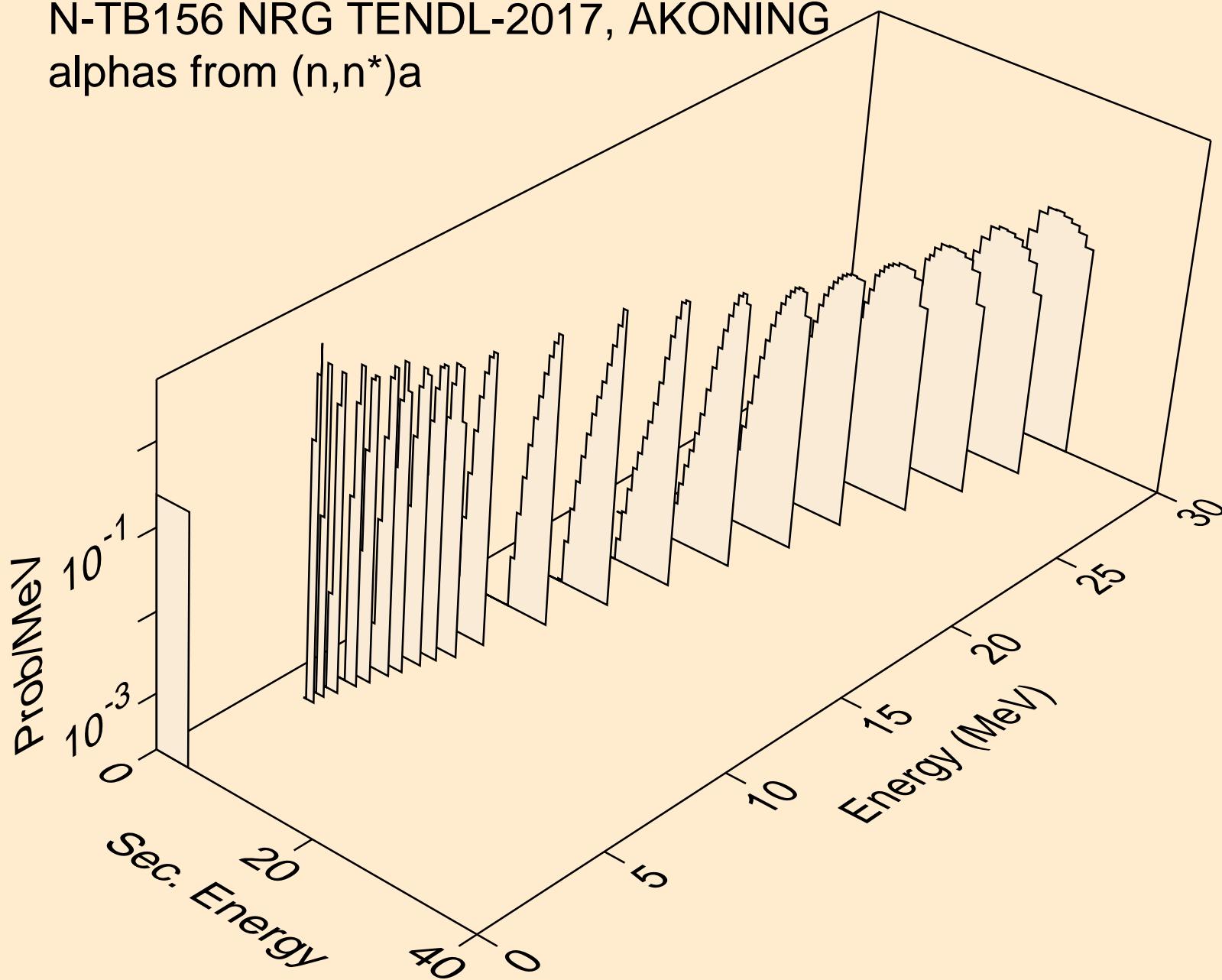
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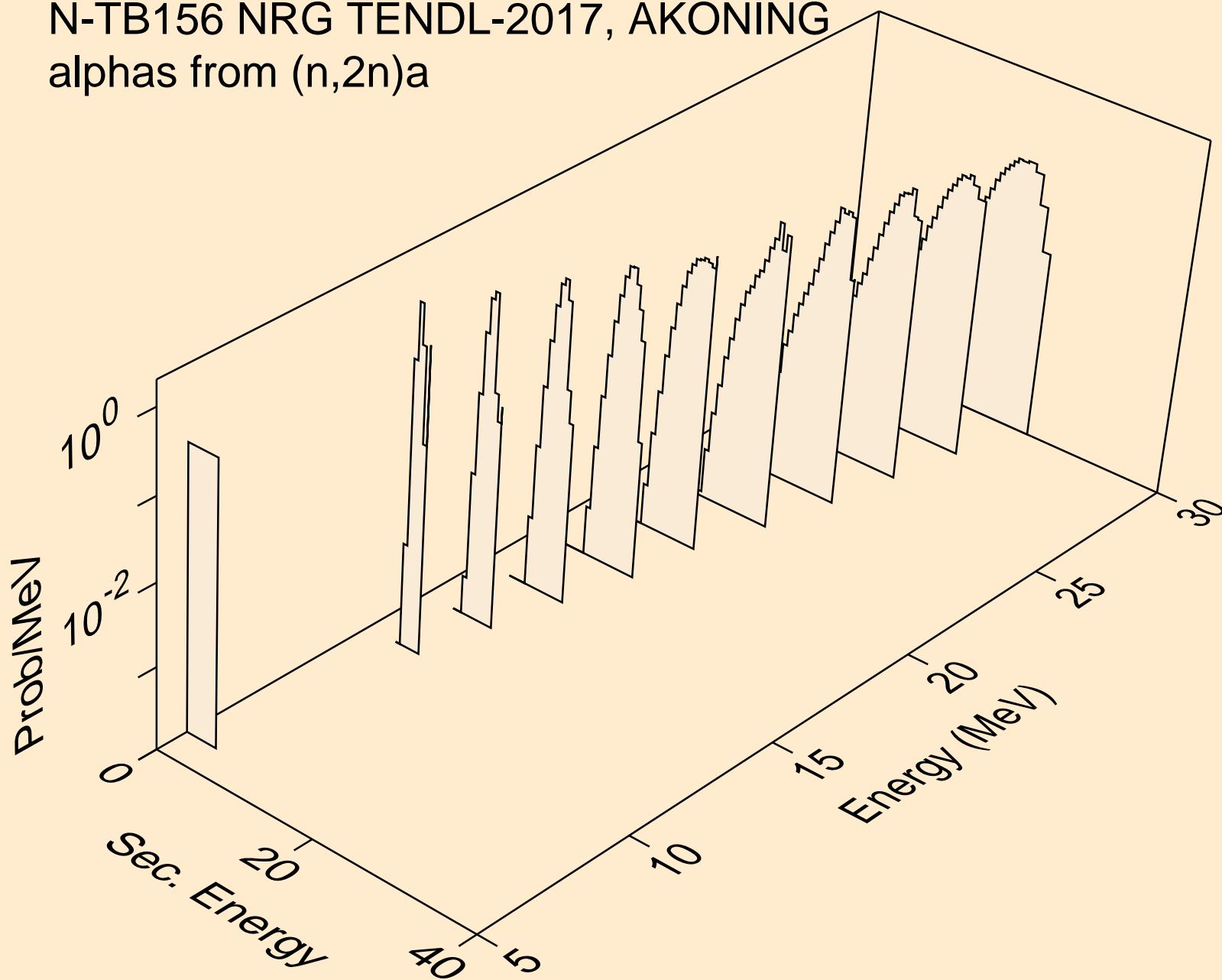
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alphas from (n,x)



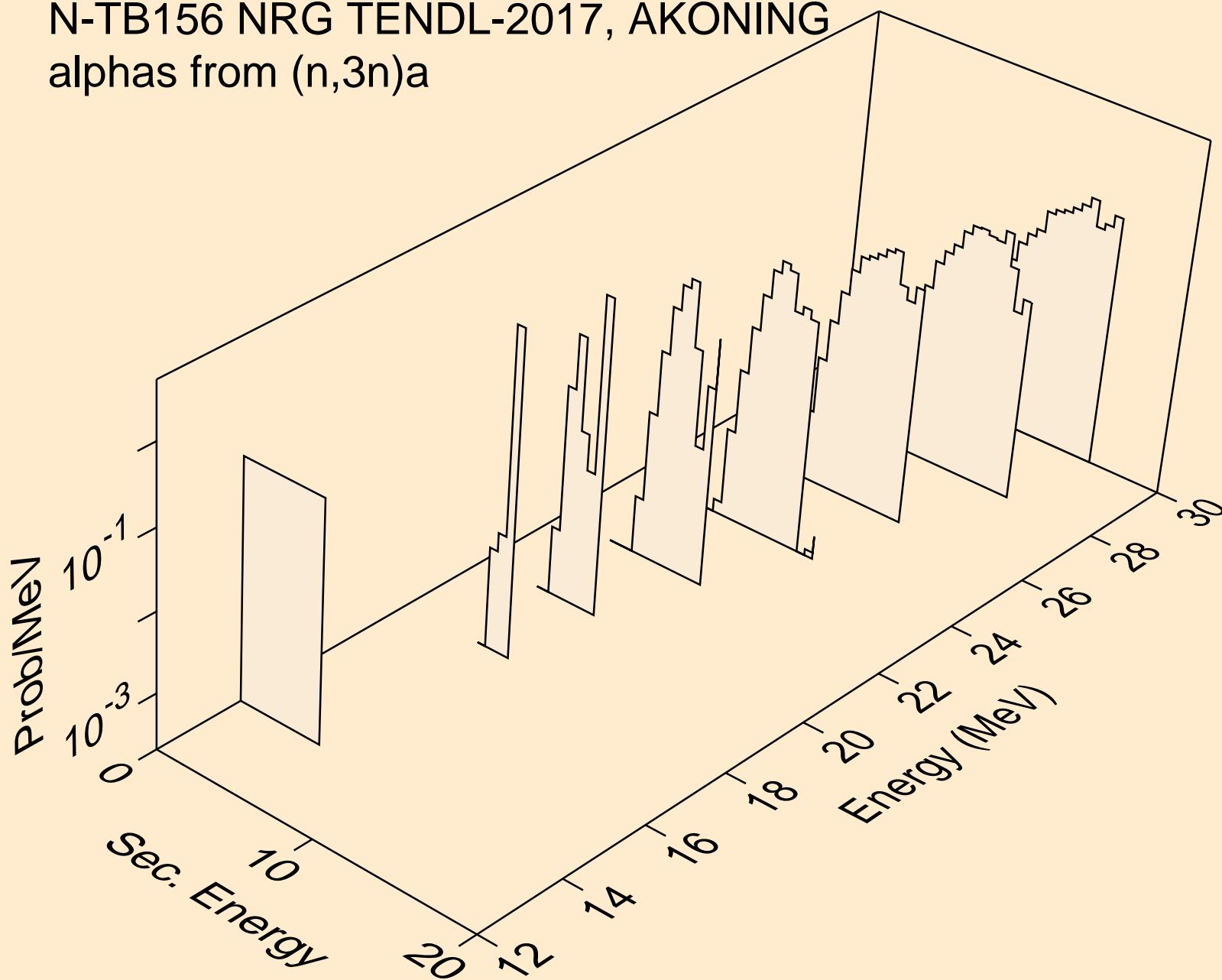
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alphas from  $(n,n^*)a$



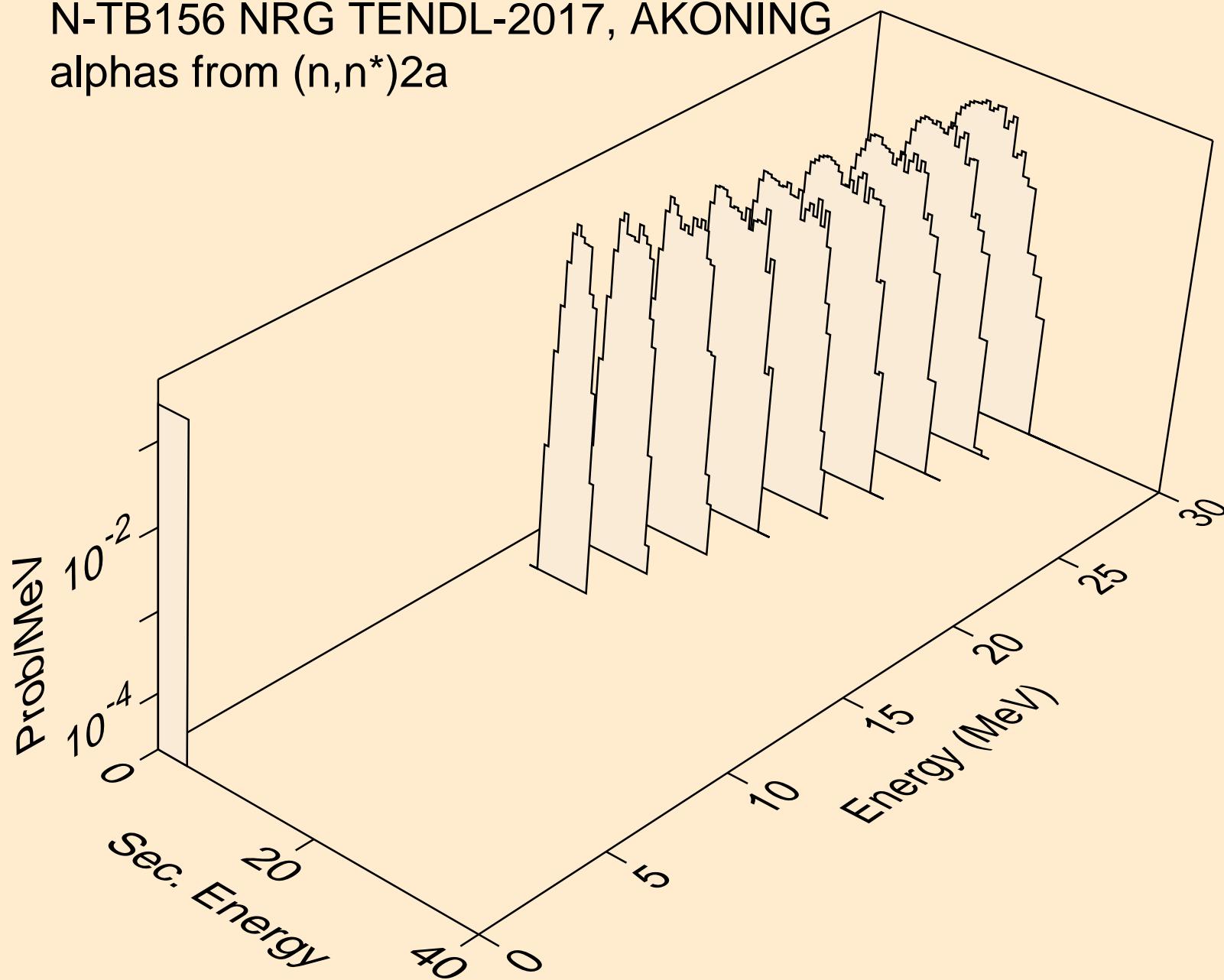
N-TB156 NRG TENDL-2017, AKONING  
alphas from ( $n,2n$ )a



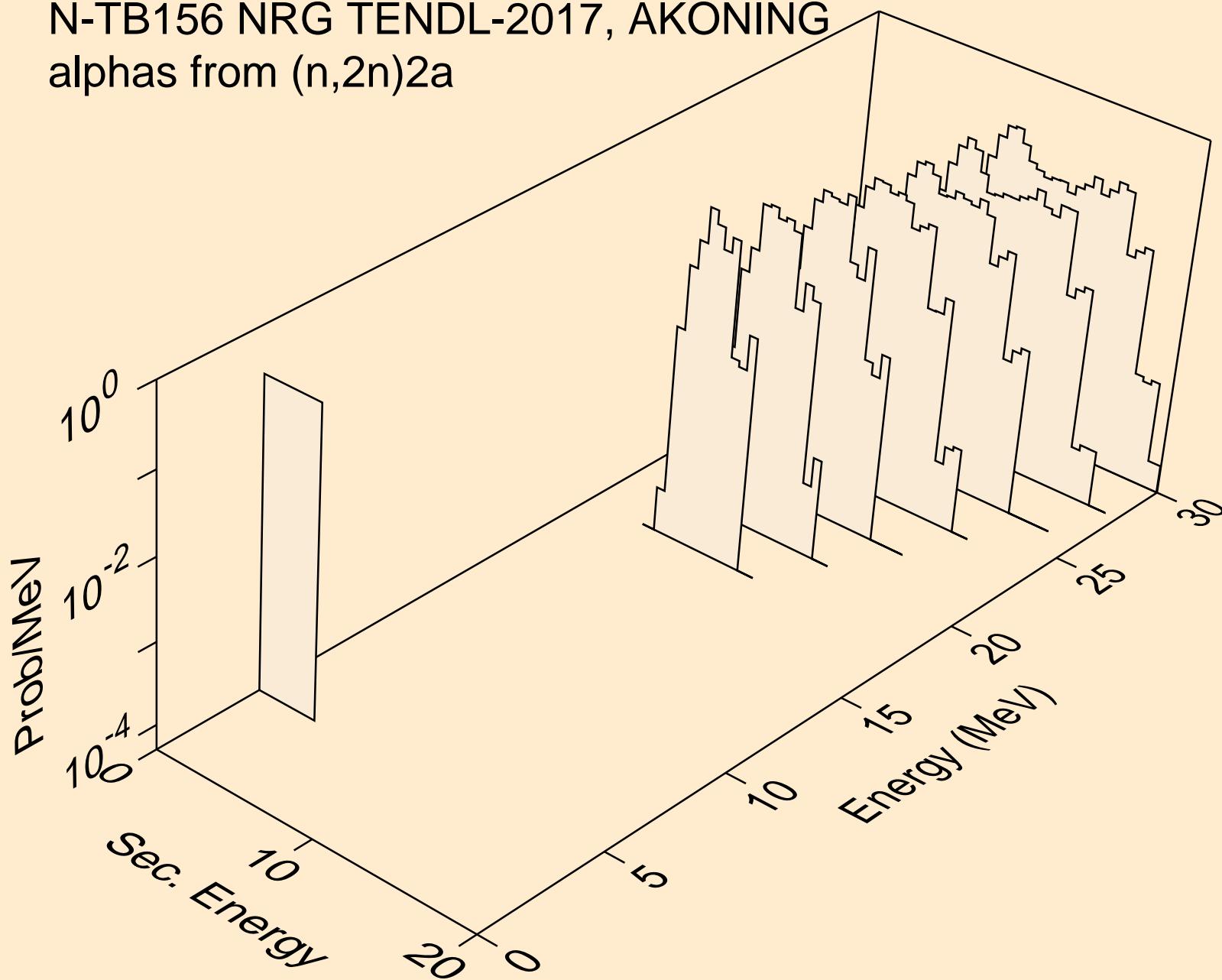
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alphas from ( $n,3n$ )a



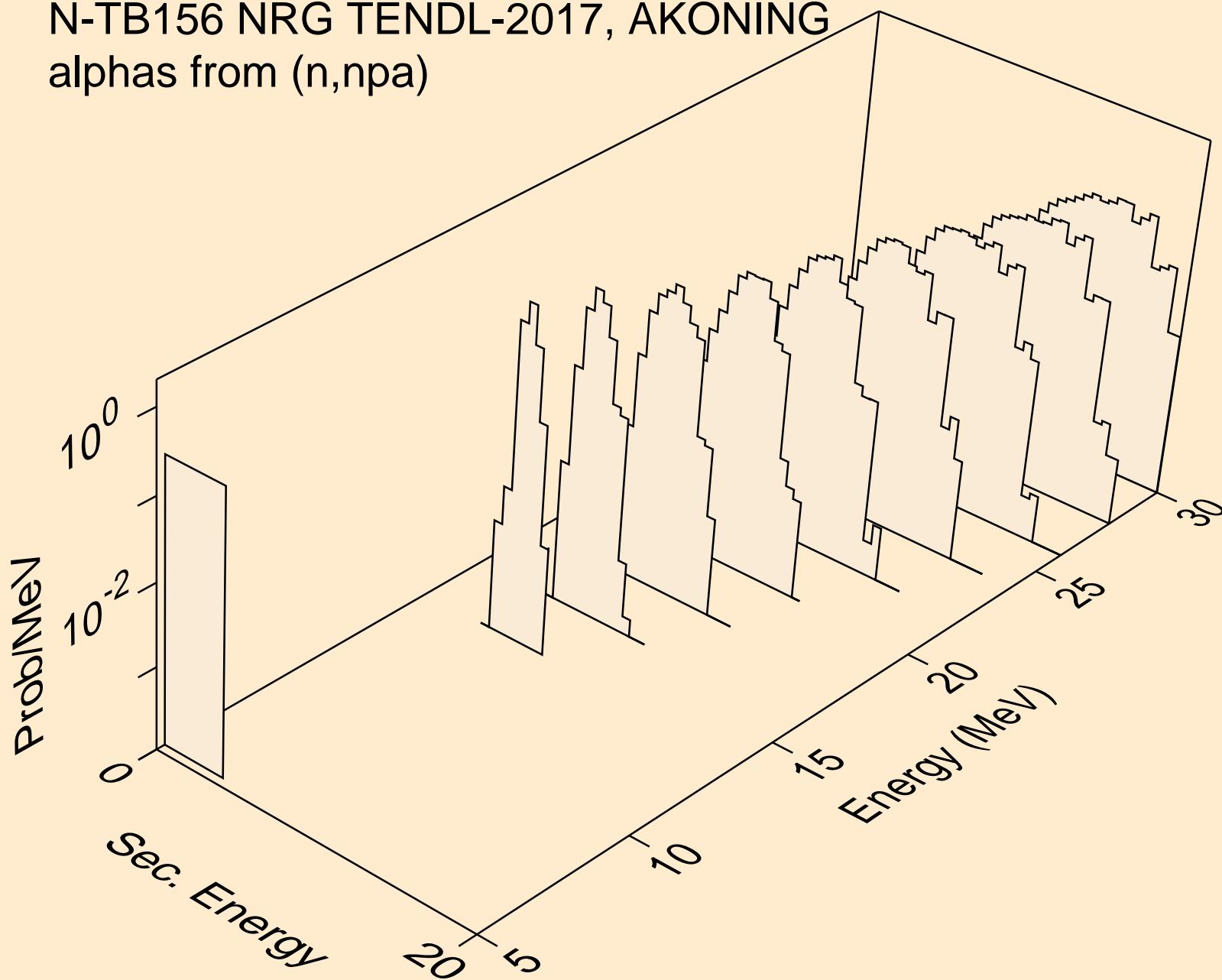
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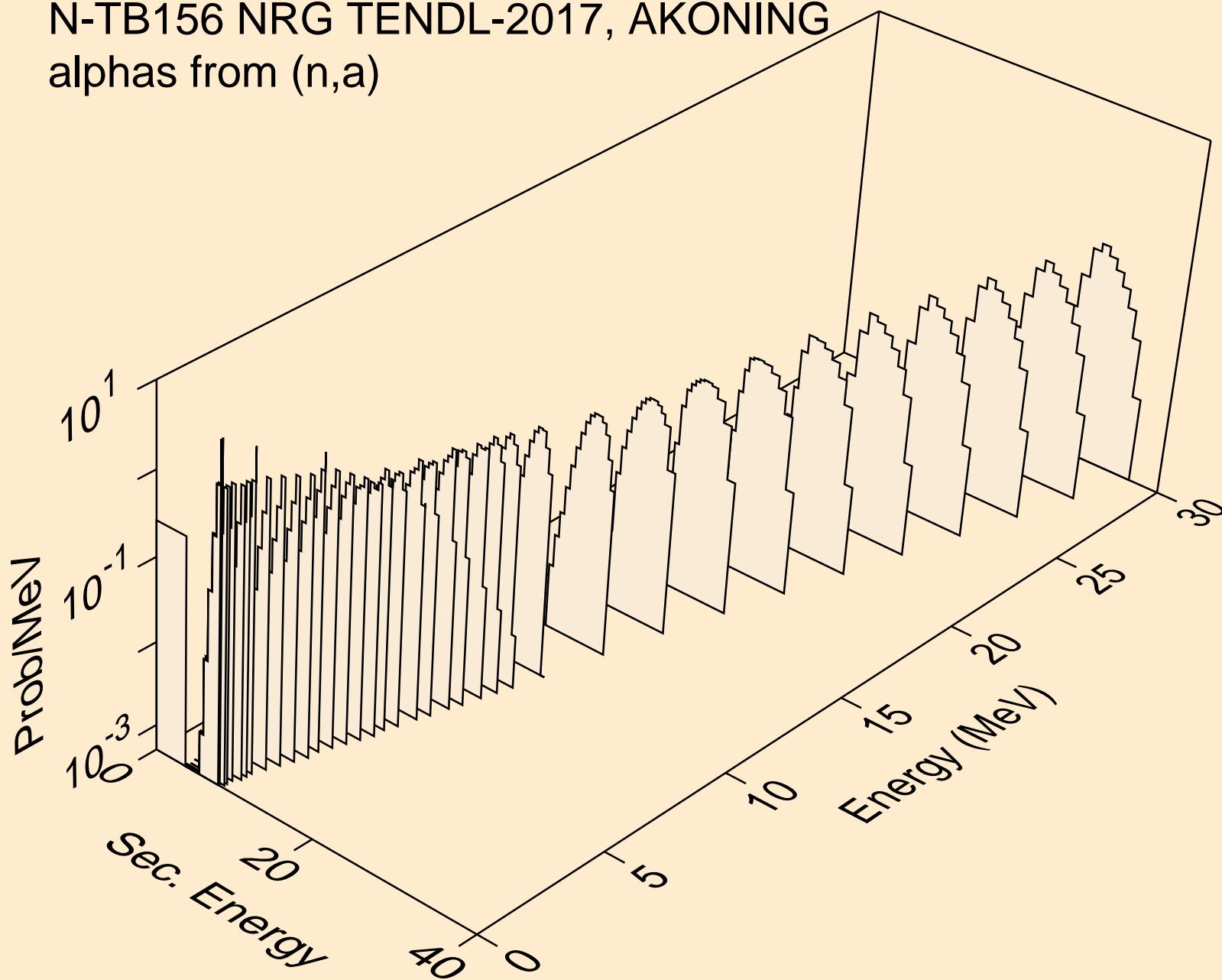
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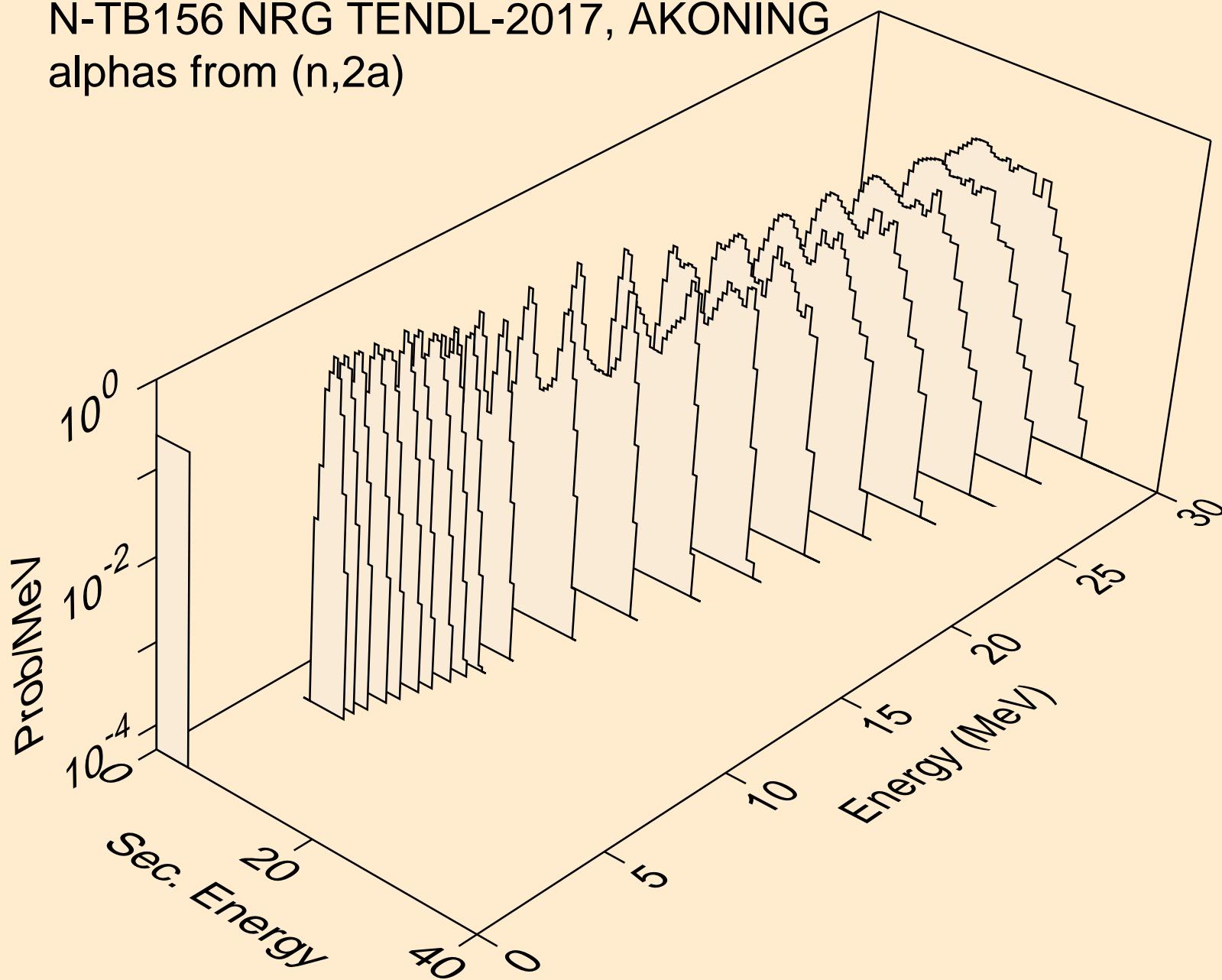
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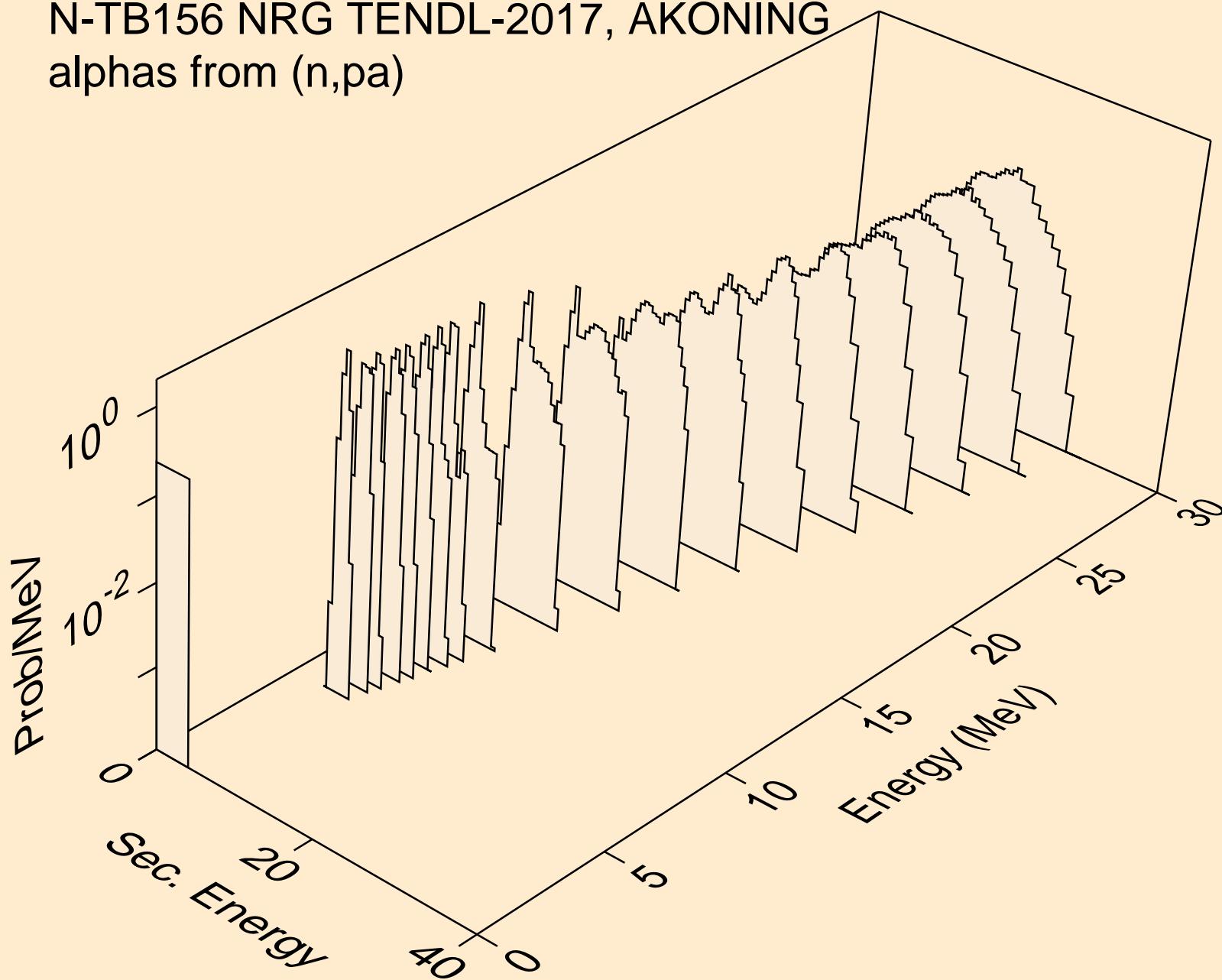
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alphas from (n,a)



N-TB156 NRG TENDL-2017, AKONING  
alphas from ( $n,2a$ )



N-TB156 NRG TENDL-2017, AKONING  
alphas from (n,pa)



N-TB156 NRG TENDL-2017, AKONING  
alphas from (n,da)

