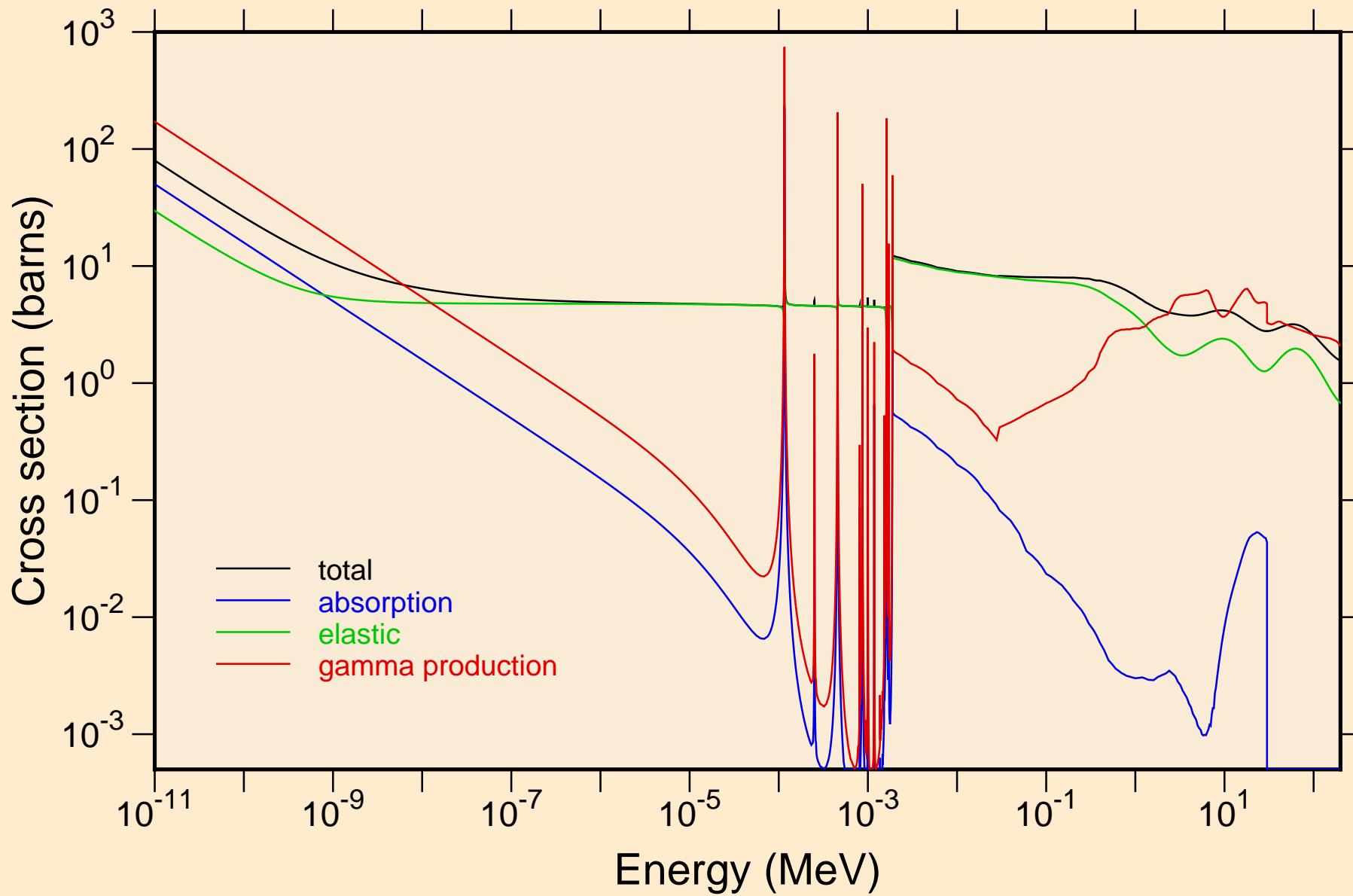
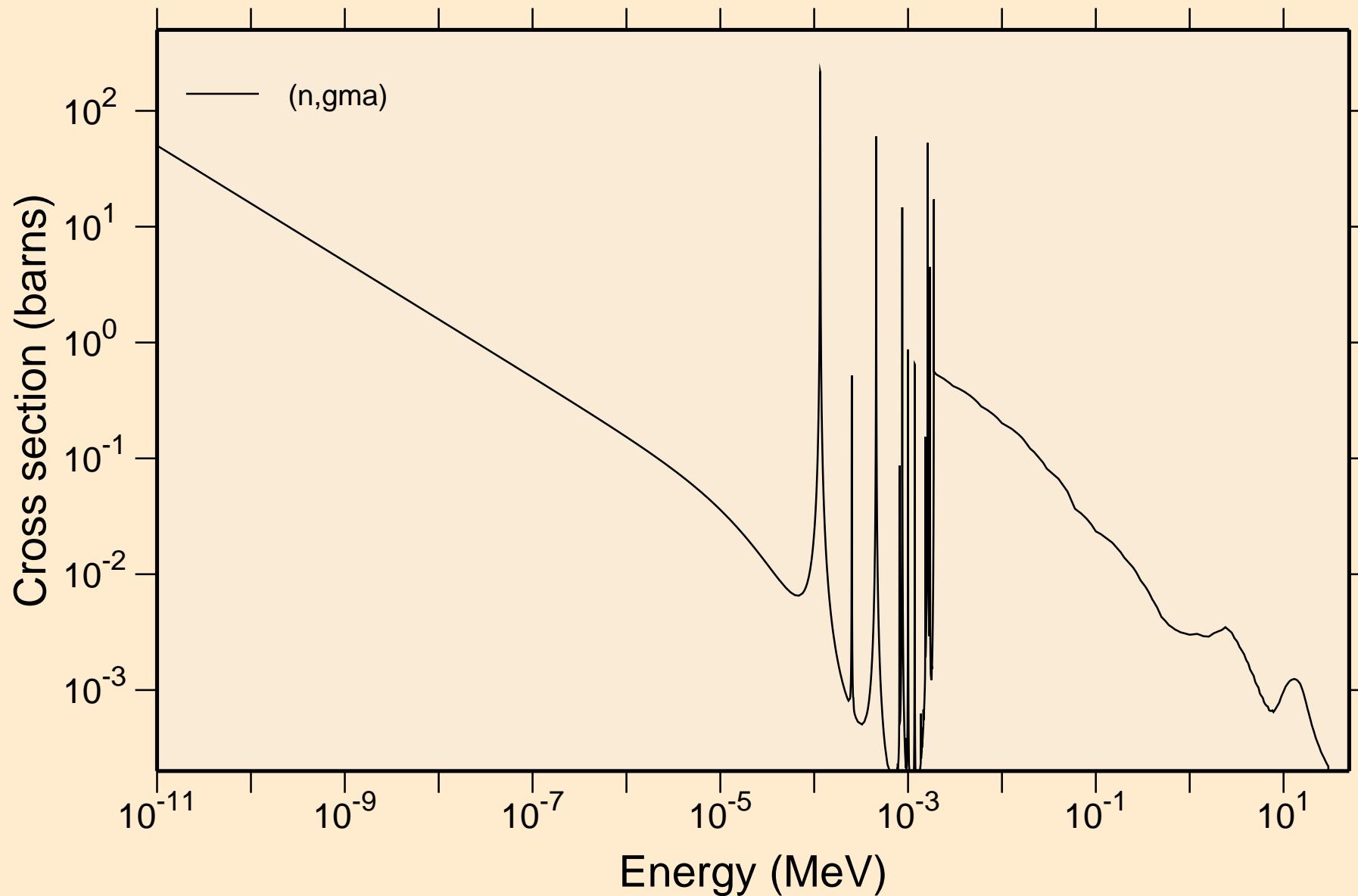


# N-RB088 NRG TENDL-2017, AKONING

## Principal cross sections

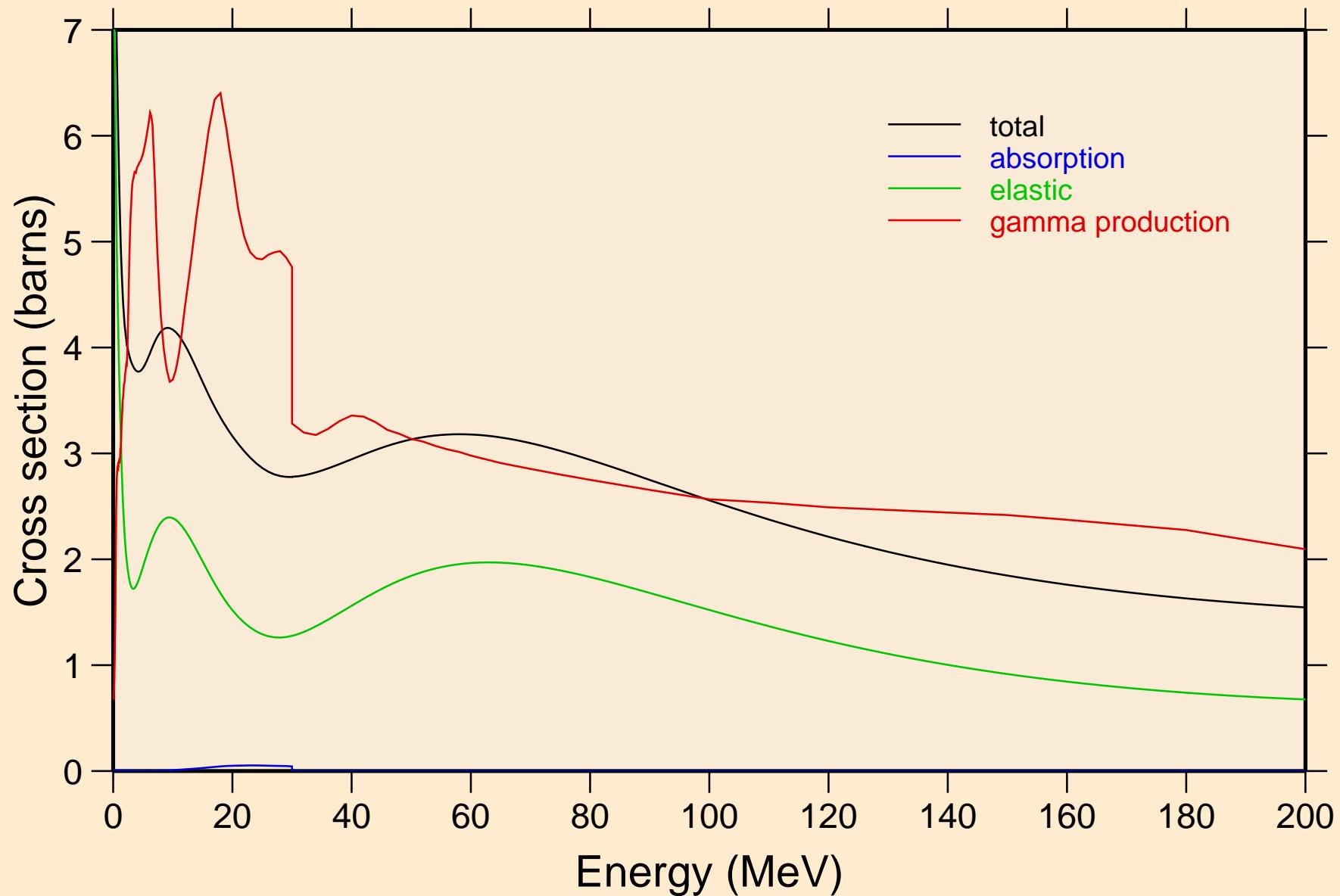


N-RB088 NRG TENDL-2017, AKONING  
Non-threshold reactions

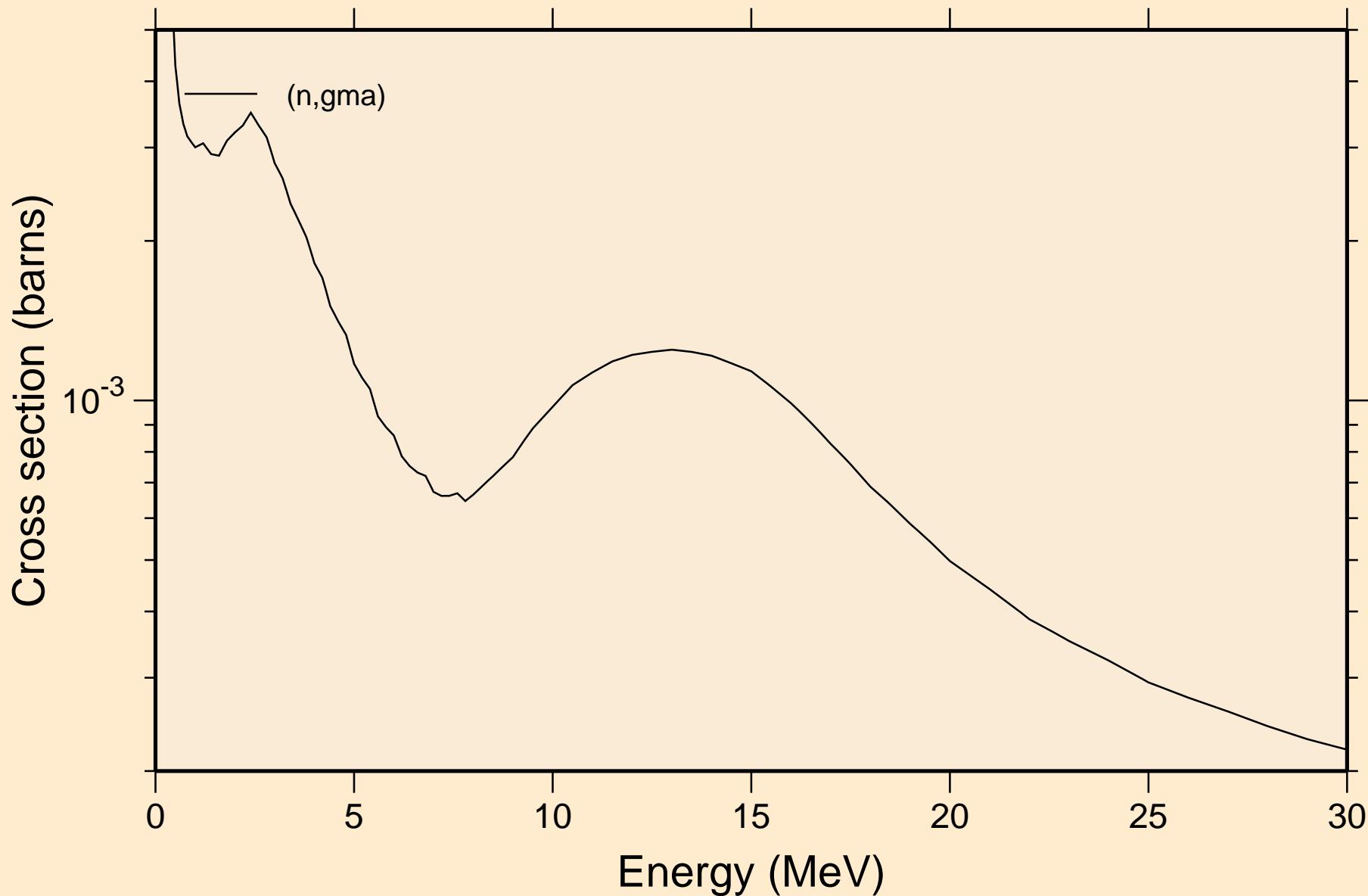


# N-RB088 NRG TENDL-2017, AKONING

## Principal cross sections

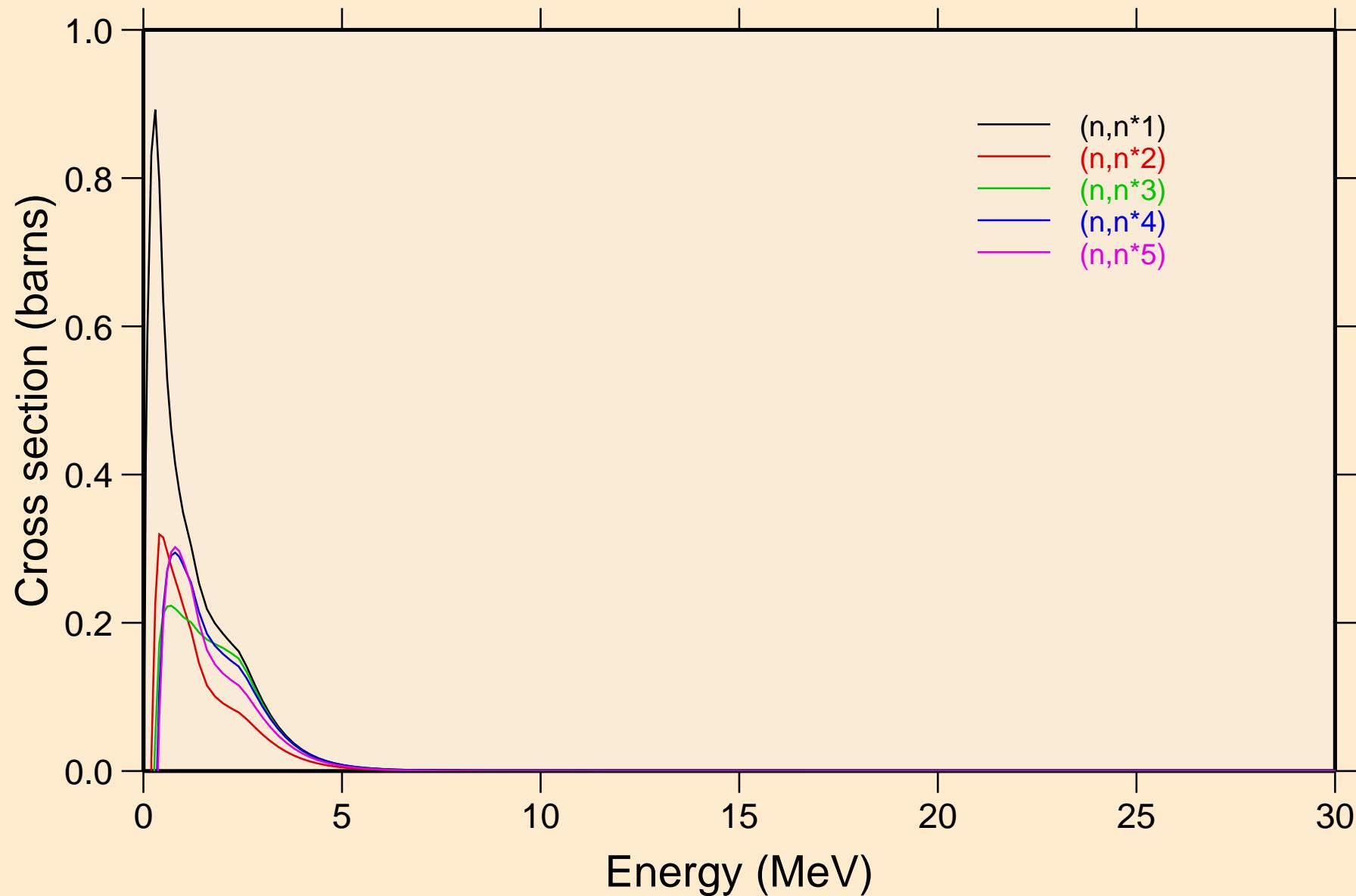


N-RB088 NRG TENDL-2017, AKONING  
Non-threshold reactions



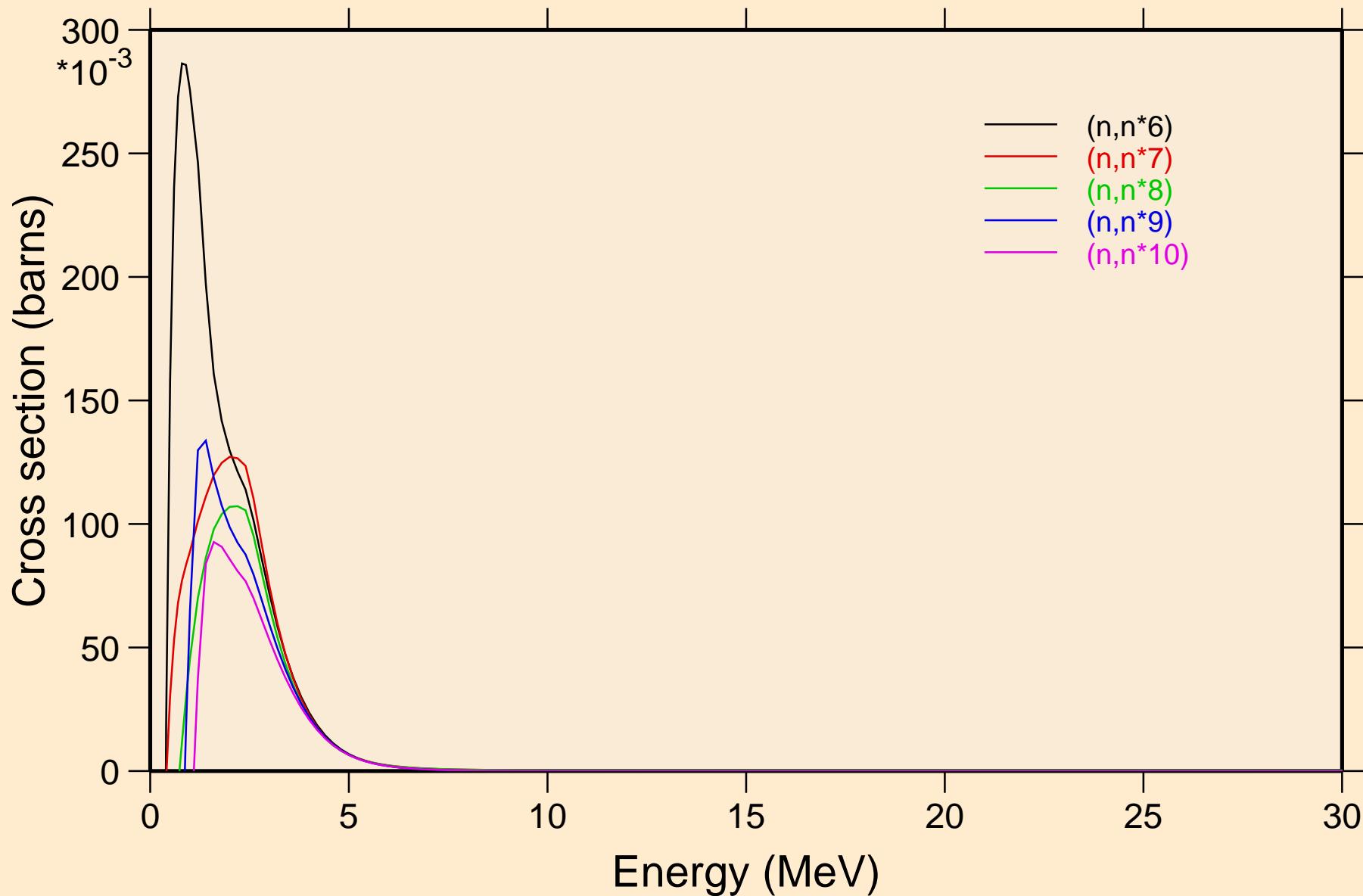
# N-RB088 NRG TENDL-2017, AKONING

## Inelastic levels



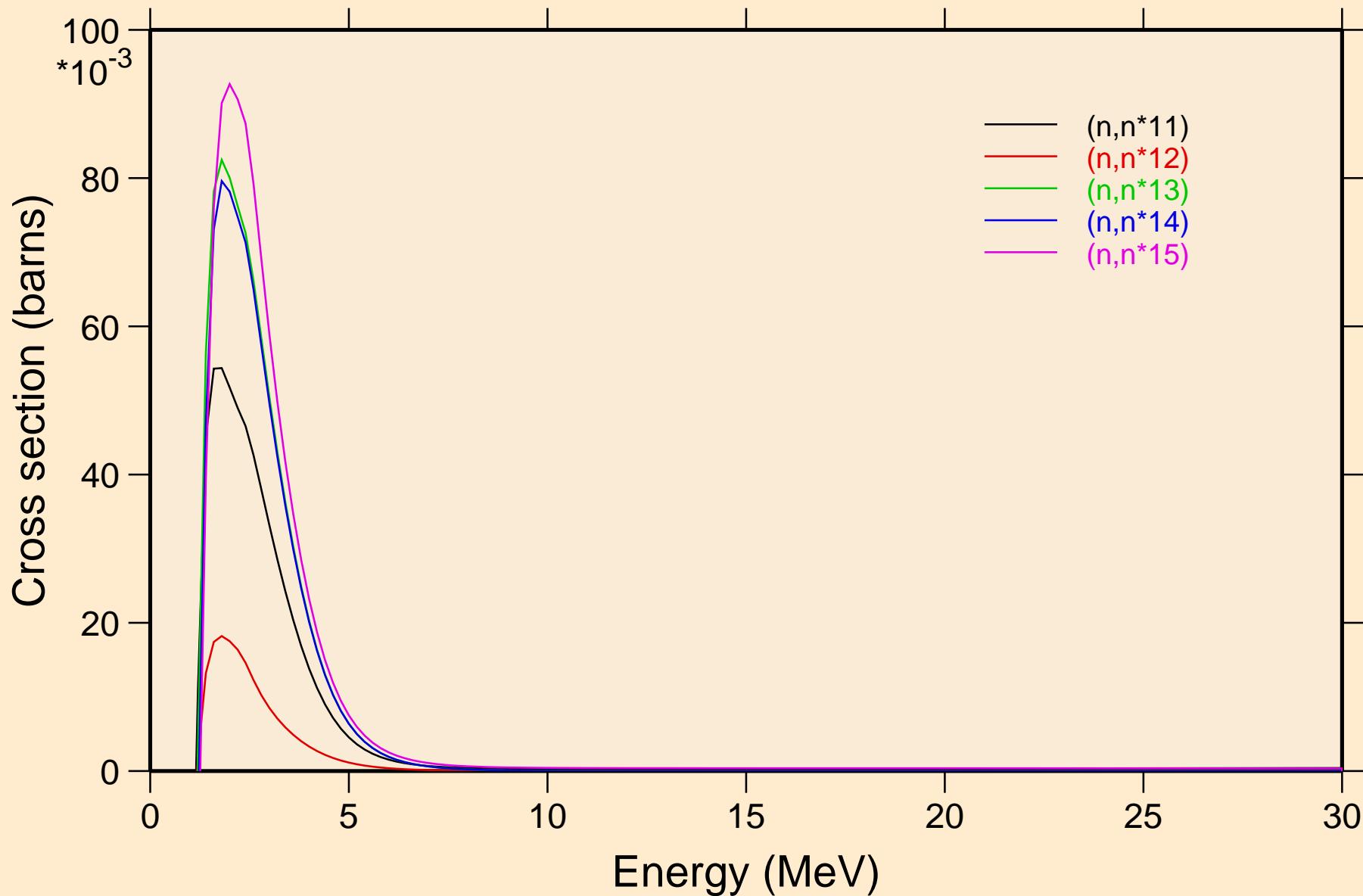
# N-RB088 NRG TENDL-2017, AKONING

## Inelastic levels



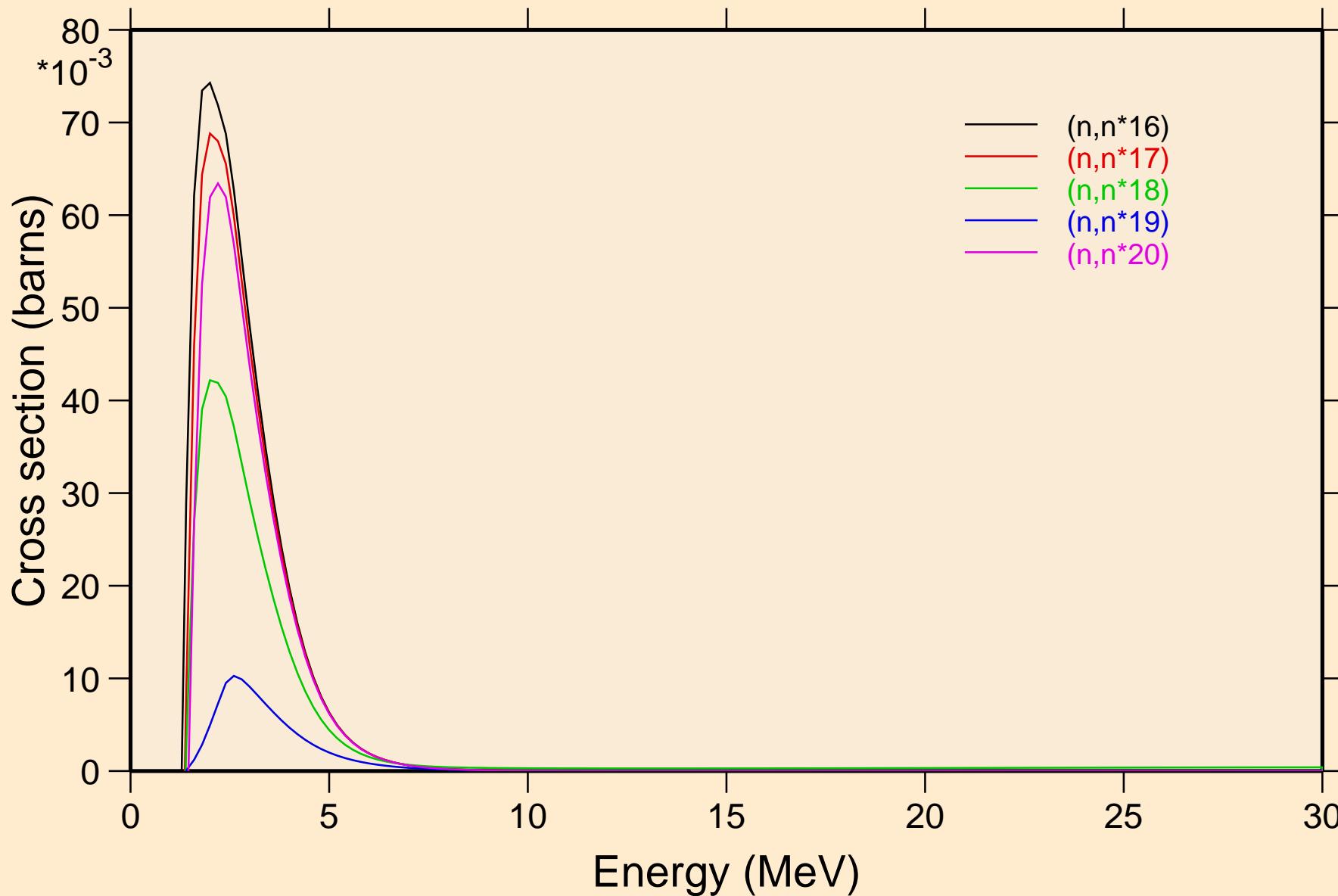
# N-RB088 NRG TENDL-2017, AKONING

## Inelastic levels



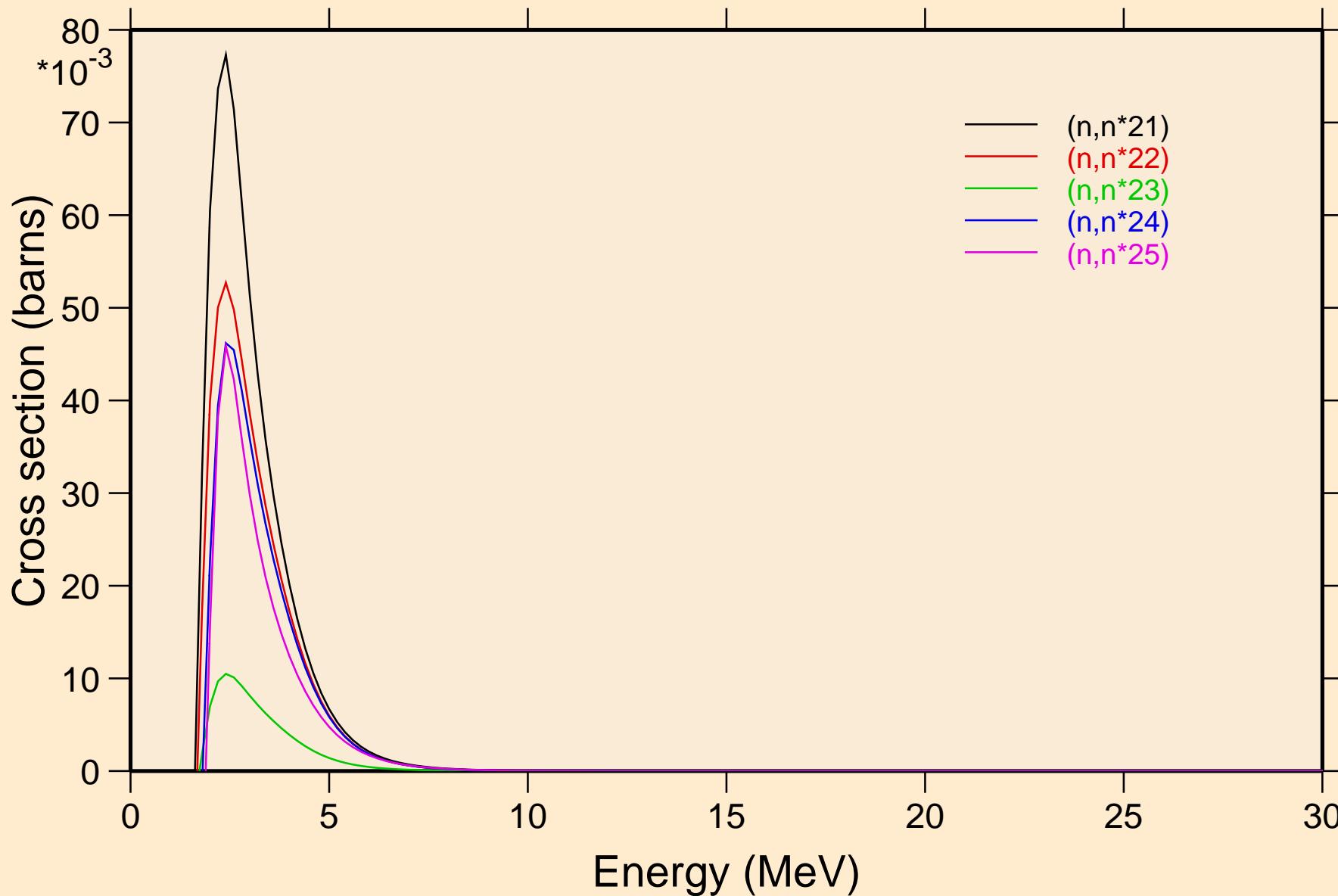
# N-RB088 NRG TENDL-2017, AKONING

## Inelastic levels



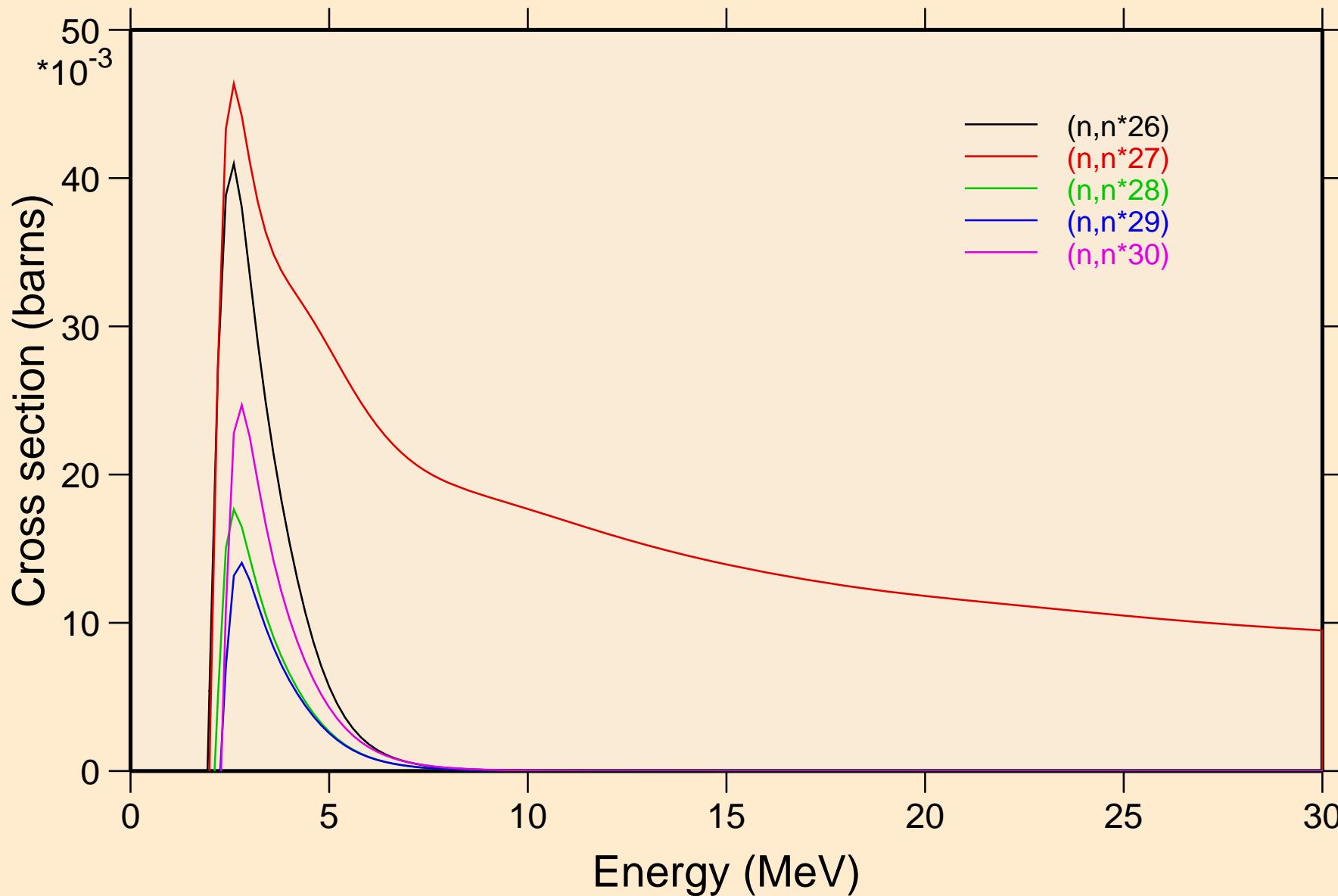
# N-RB088 NRG TENDL-2017, AKONING

## Inelastic levels



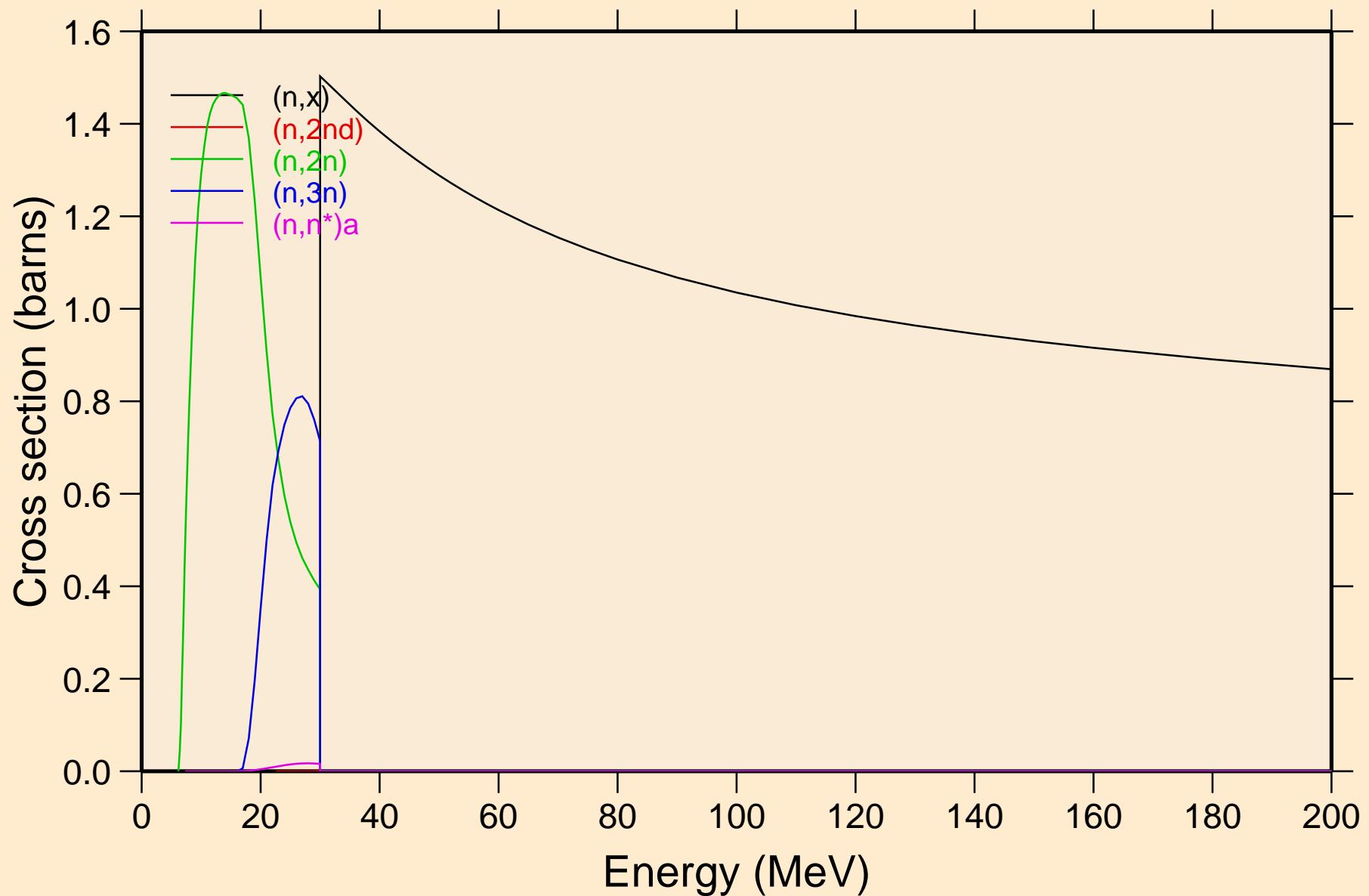
# N-RB088 NRG TENDL-2017, AKONING

## Inelastic levels



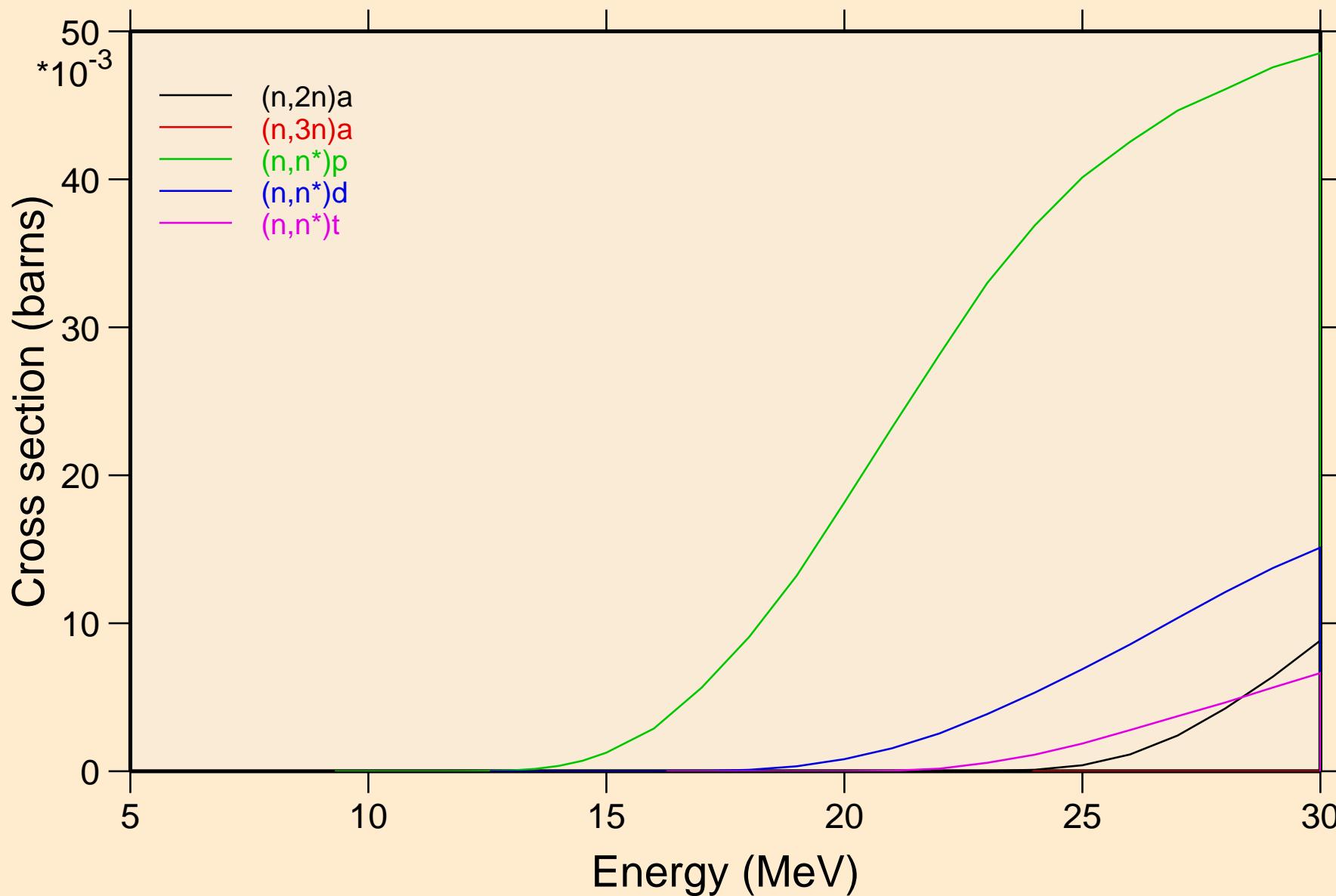
# N-RB088 NRG TENDL-2017, AKONING

## Threshold reactions



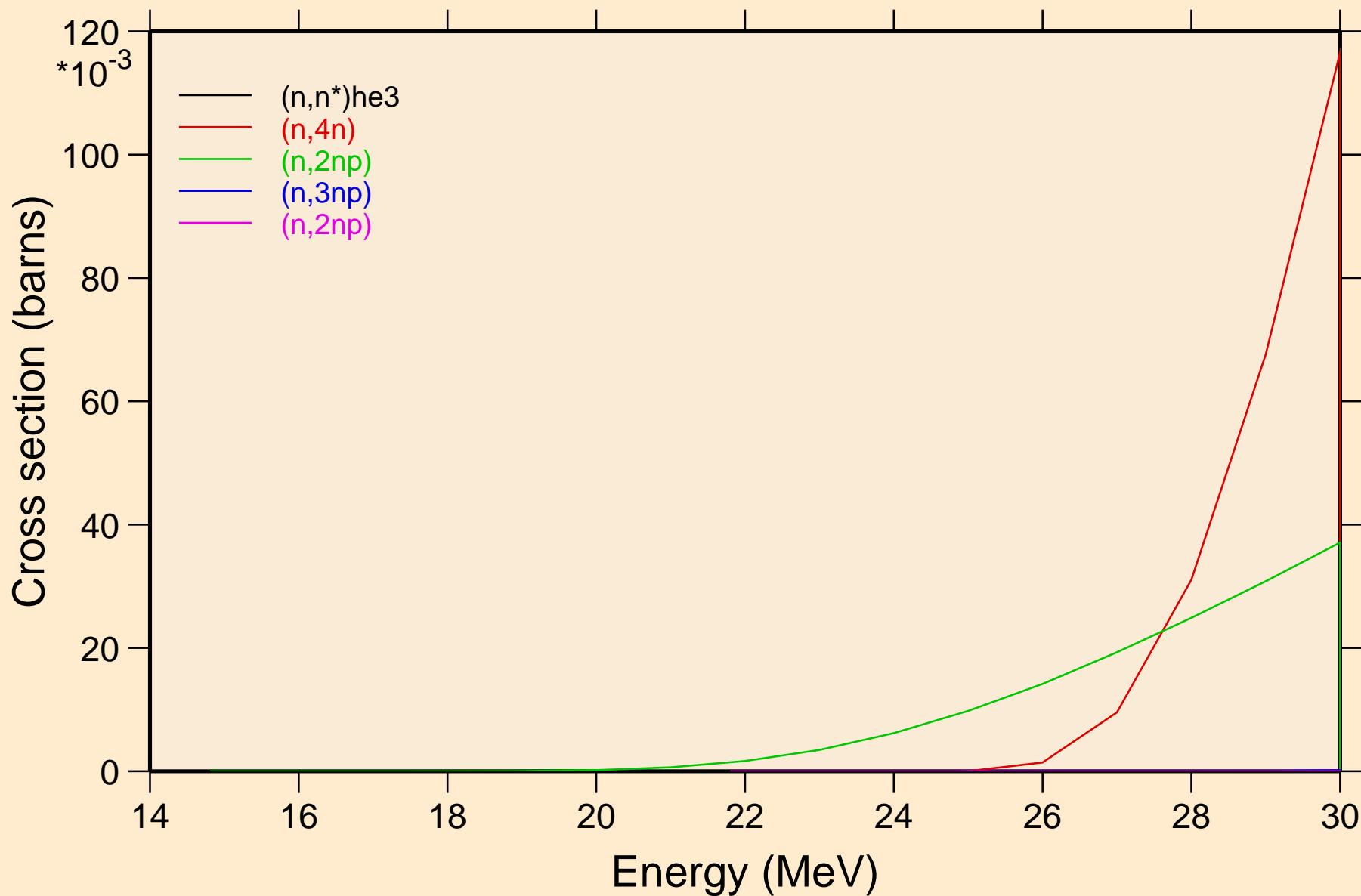
# N-RB088 NRG TENDL-2017, AKONING

## Threshold reactions



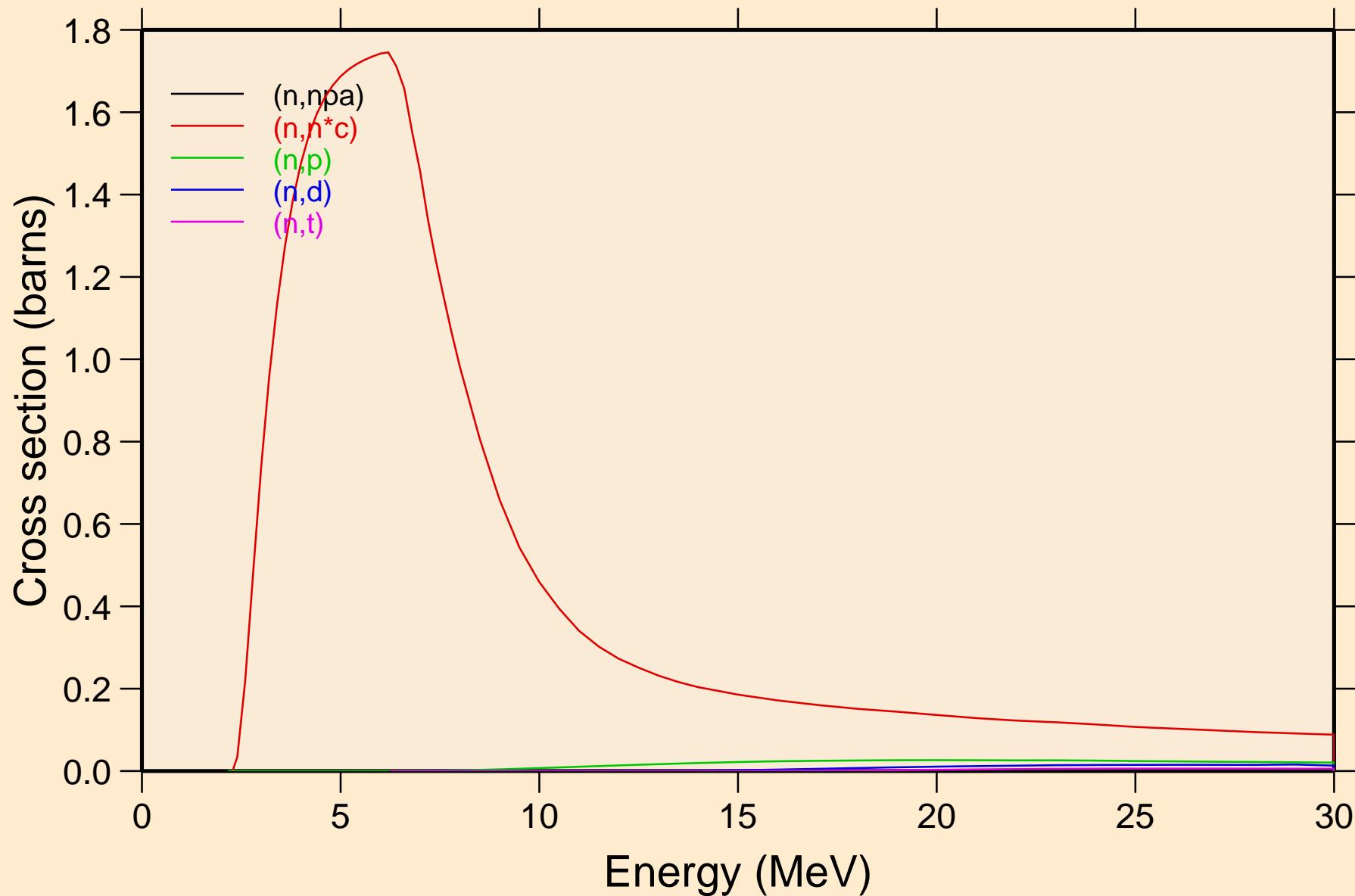
# N-RB088 NRG TENDL-2017, AKONING

## Threshold reactions



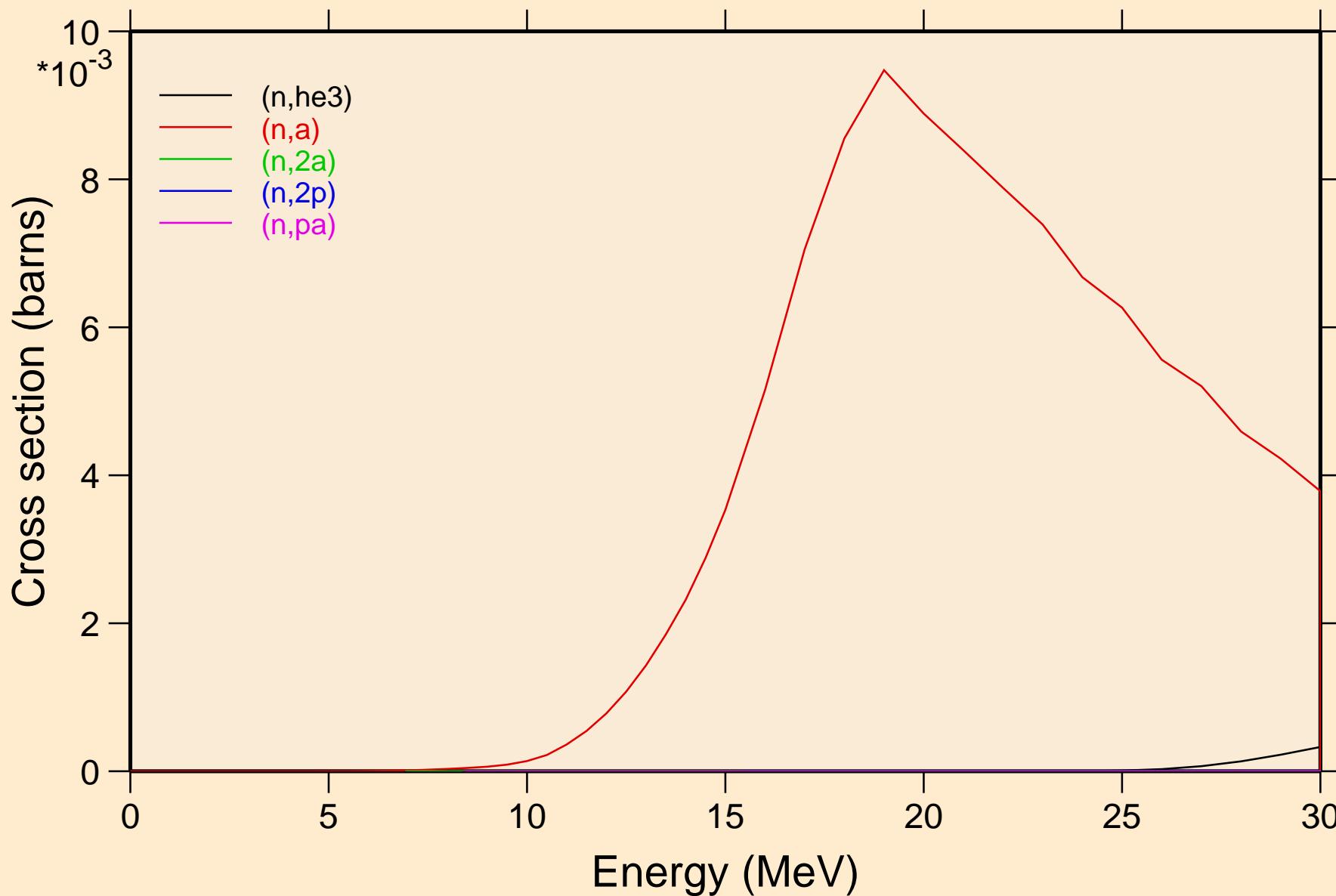
# N-RB088 NRG TENDL-2017, AKONING

## Threshold reactions



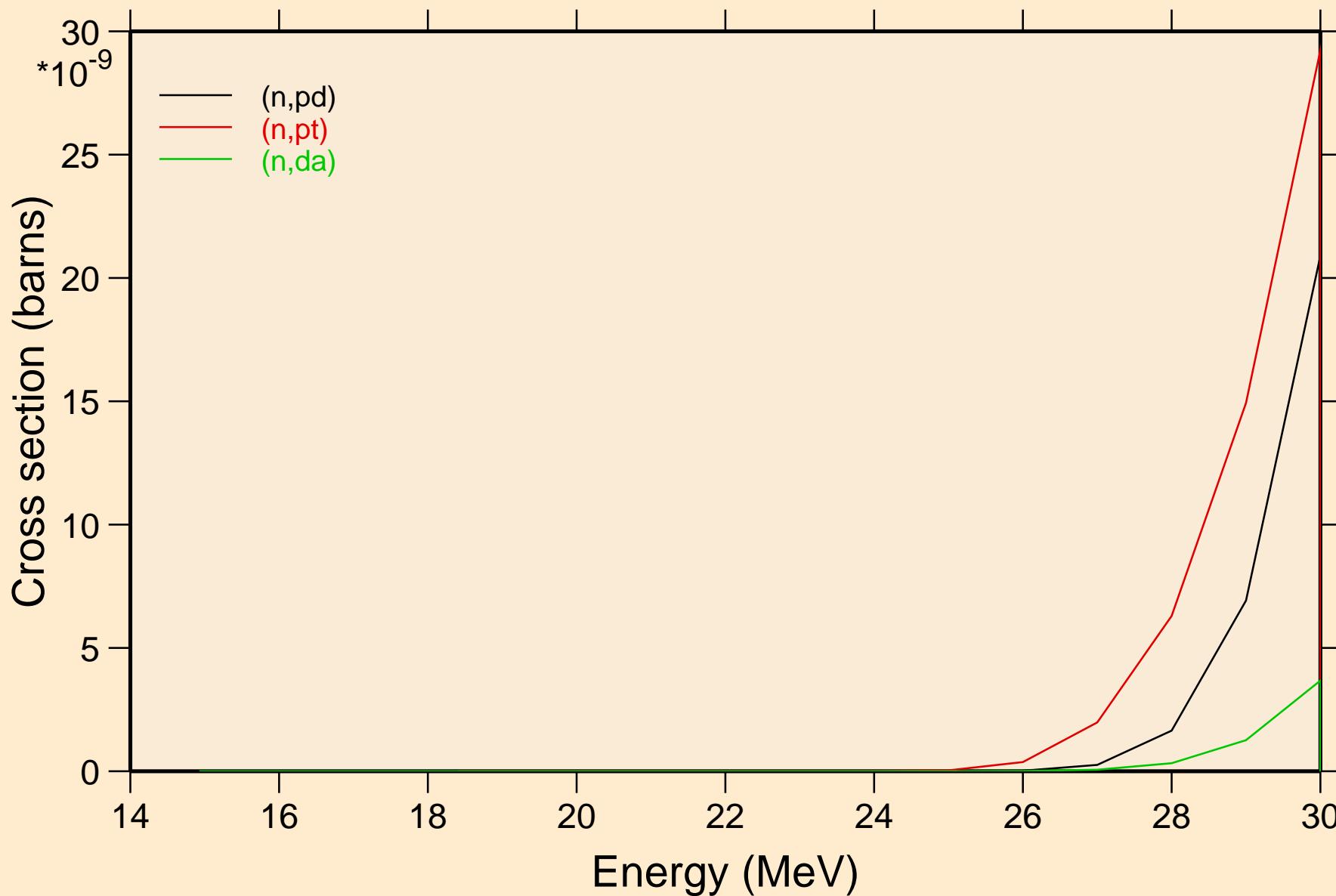
# N-RB088 NRG TENDL-2017, AKONING

## Threshold reactions

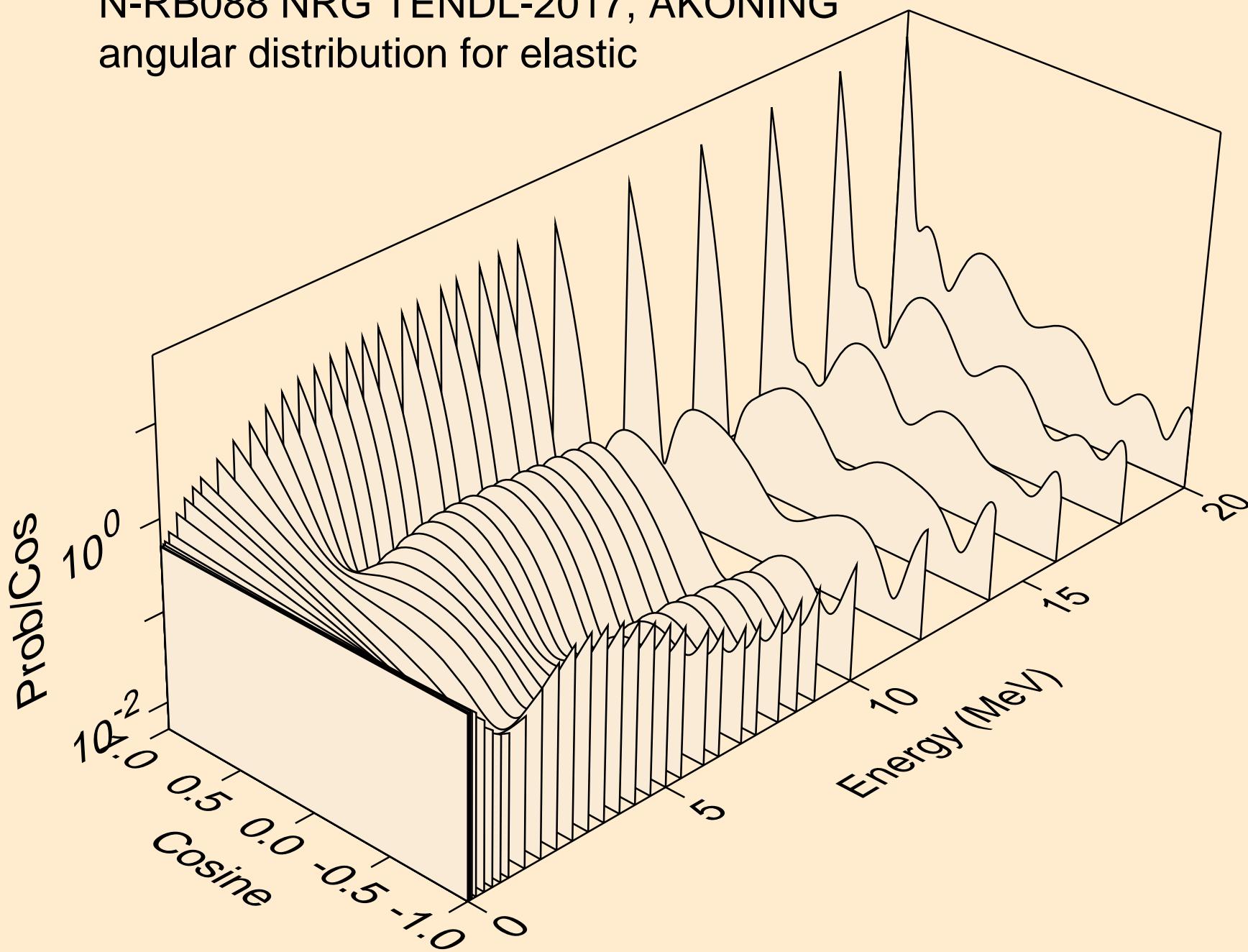


# N-RB088 NRG TENDL-2017, AKONING

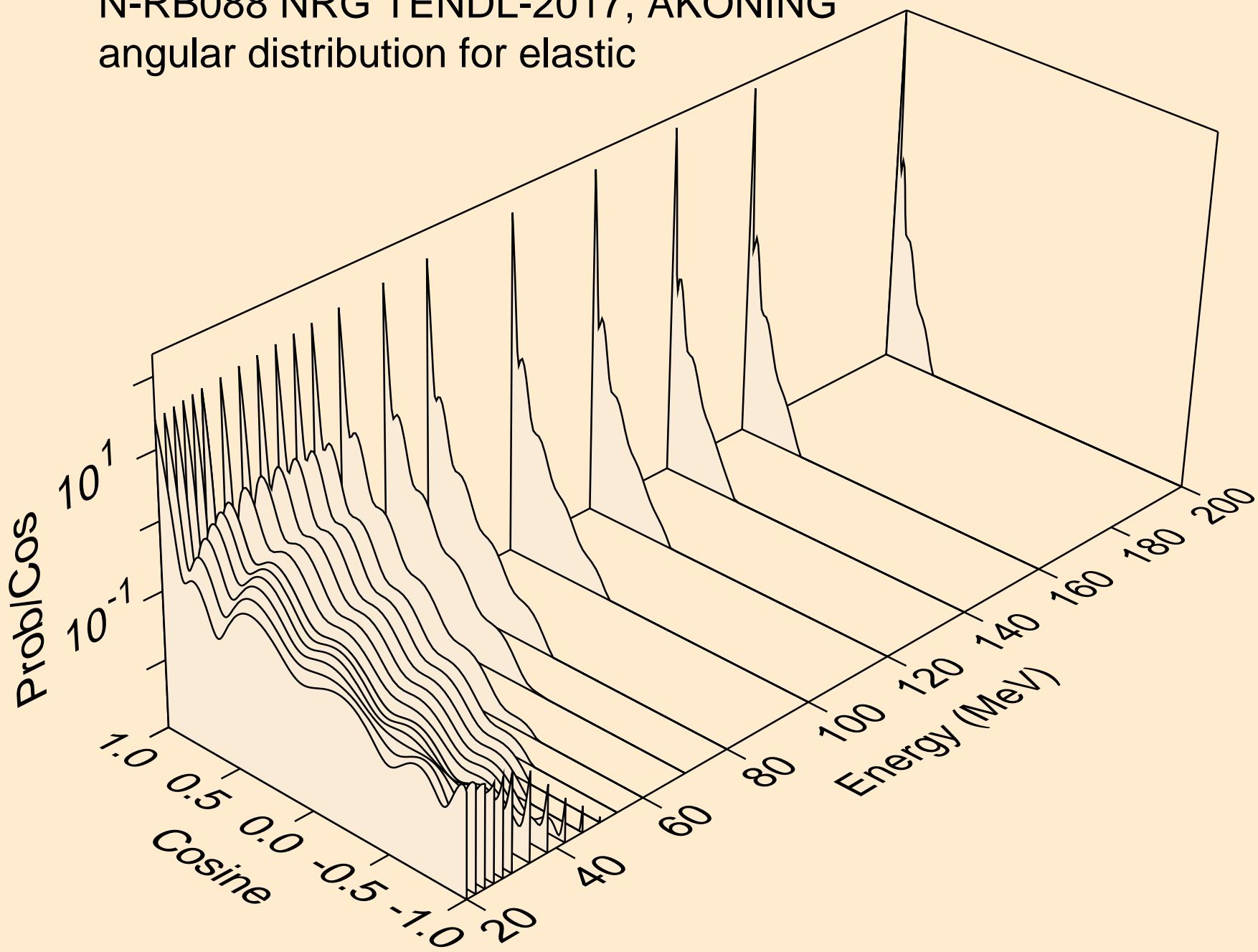
## Threshold reactions



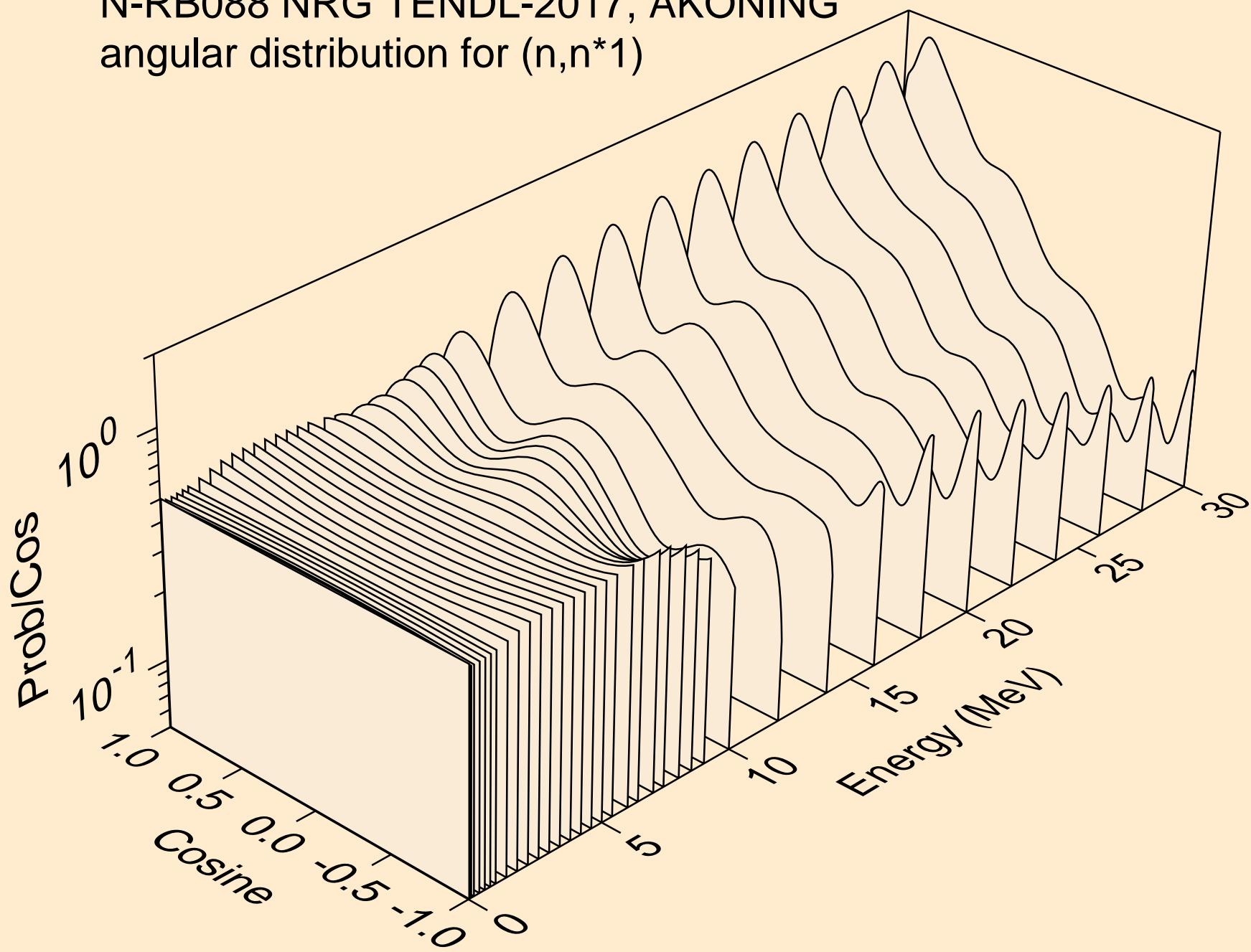
N-RB088 NRG TENDL-2017, AKONING  
angular distribution for elastic



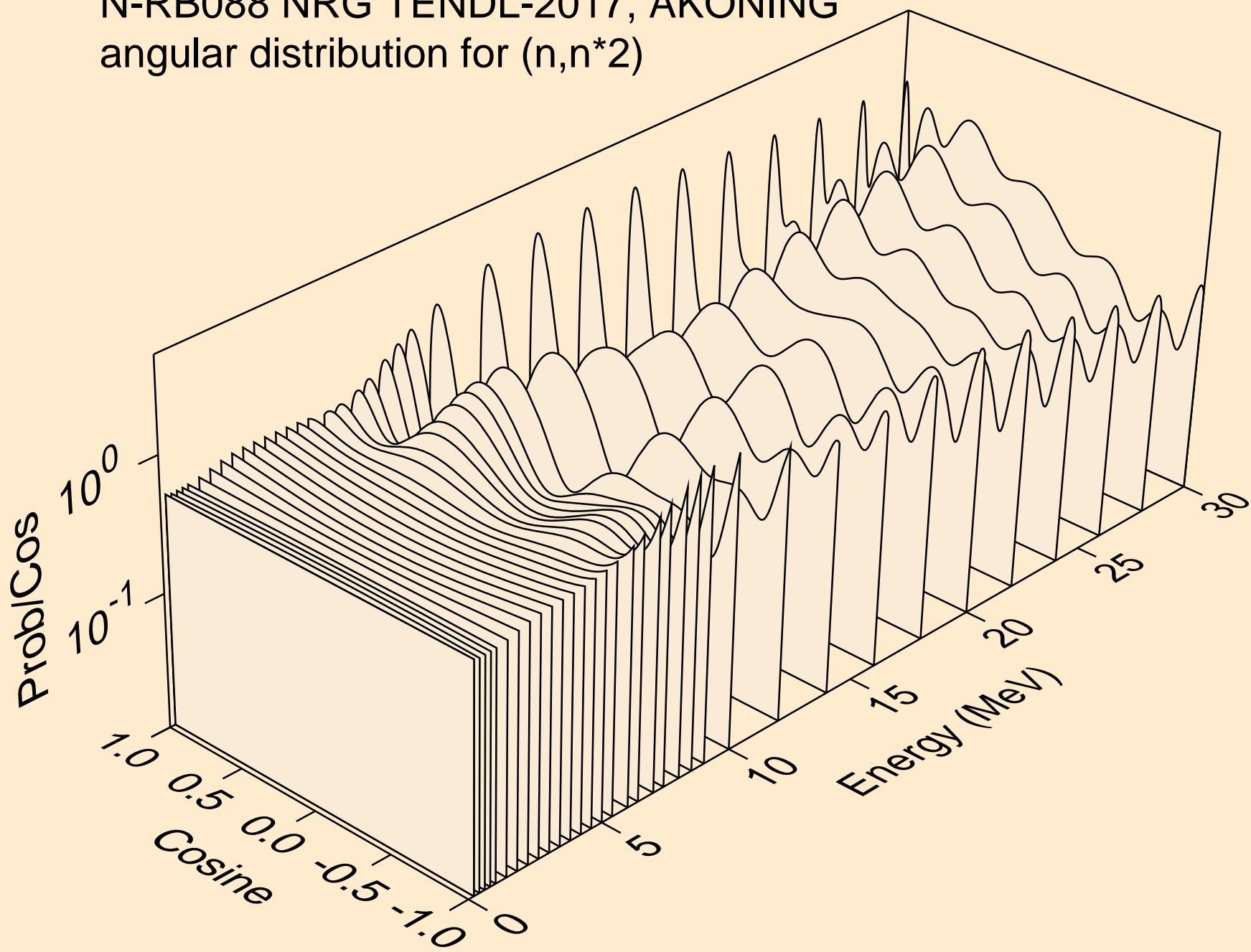
N-RB088 NRG TENDL-2017, AKONING  
angular distribution for elastic



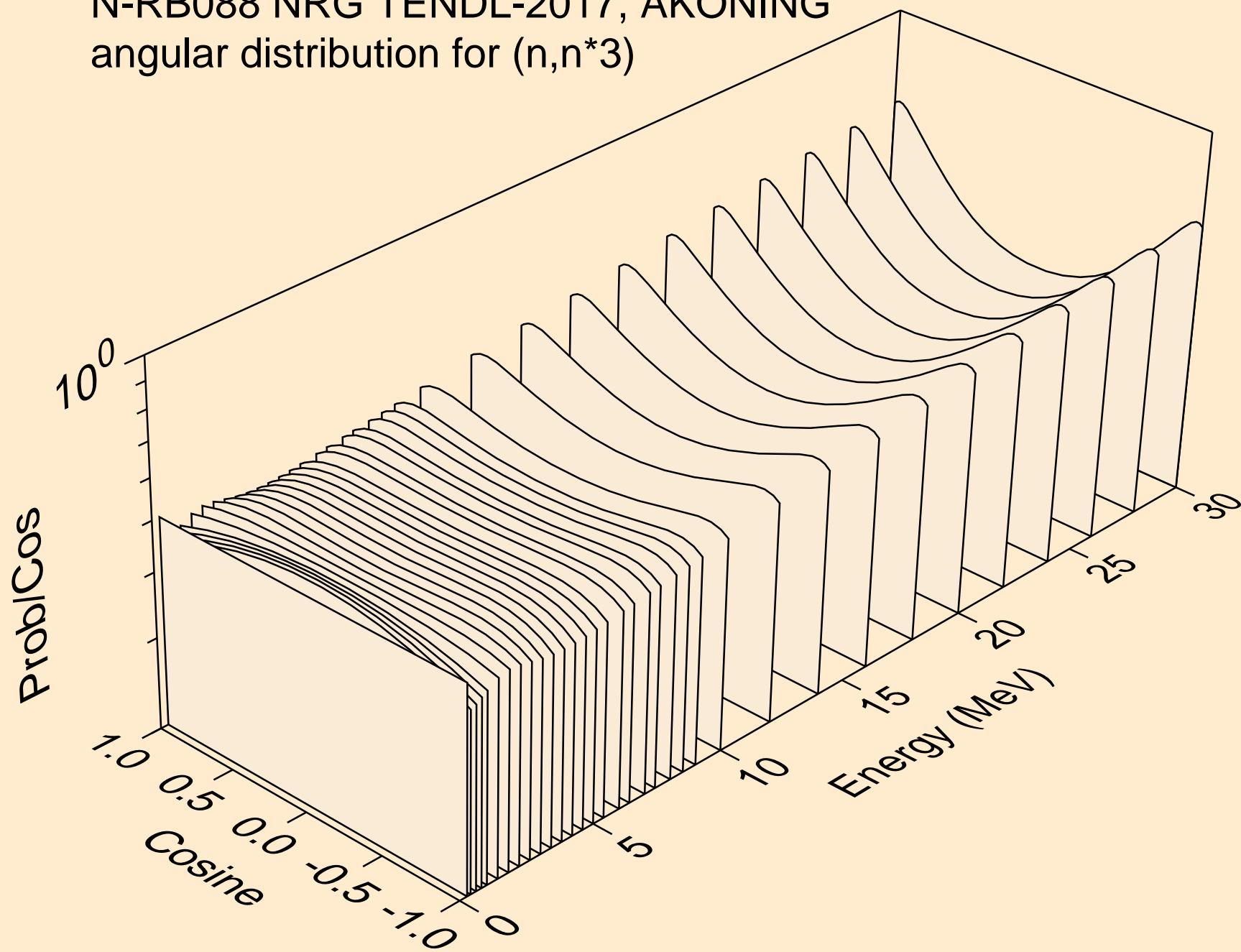
N-RB088 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*)$



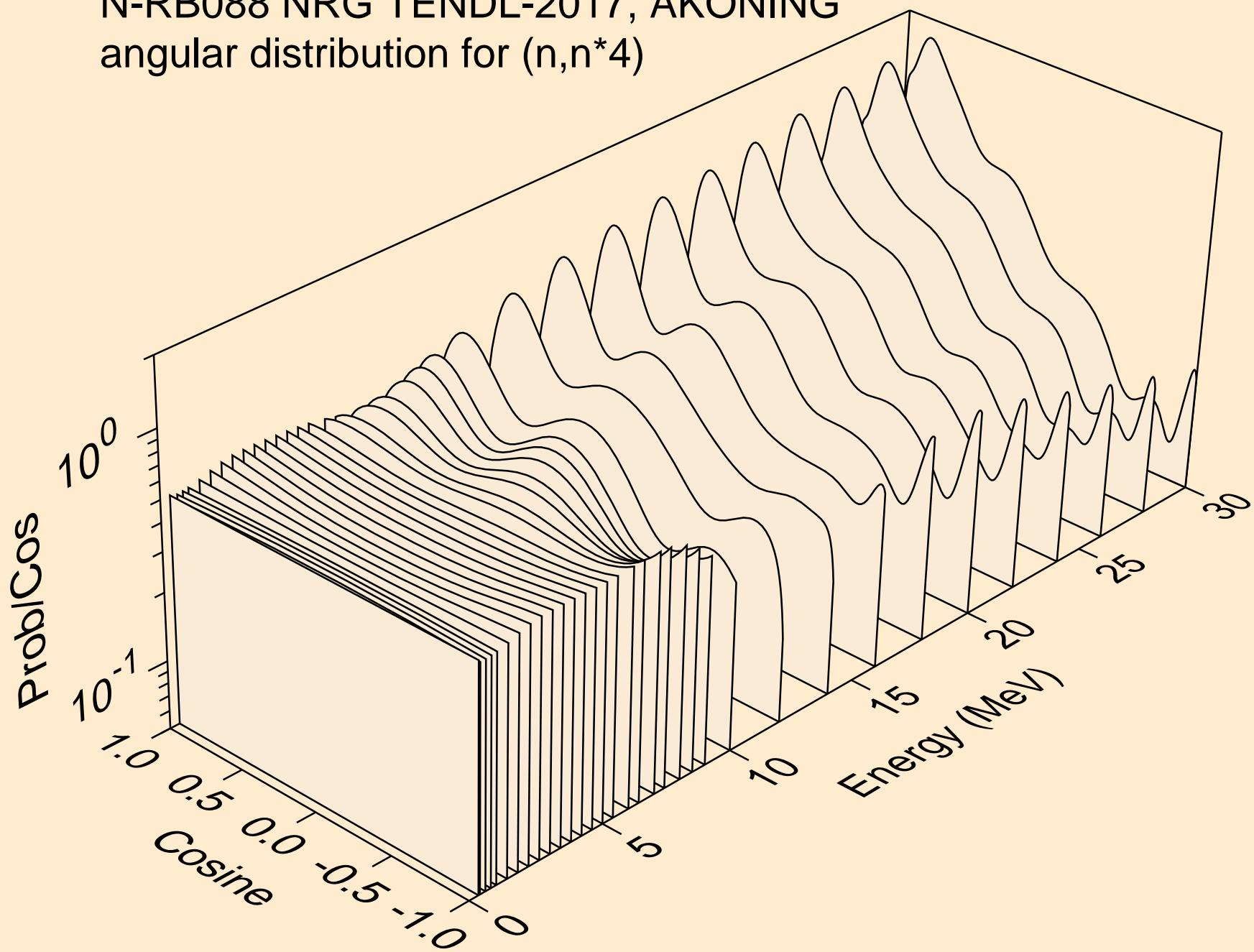
N-RB088 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*2)$



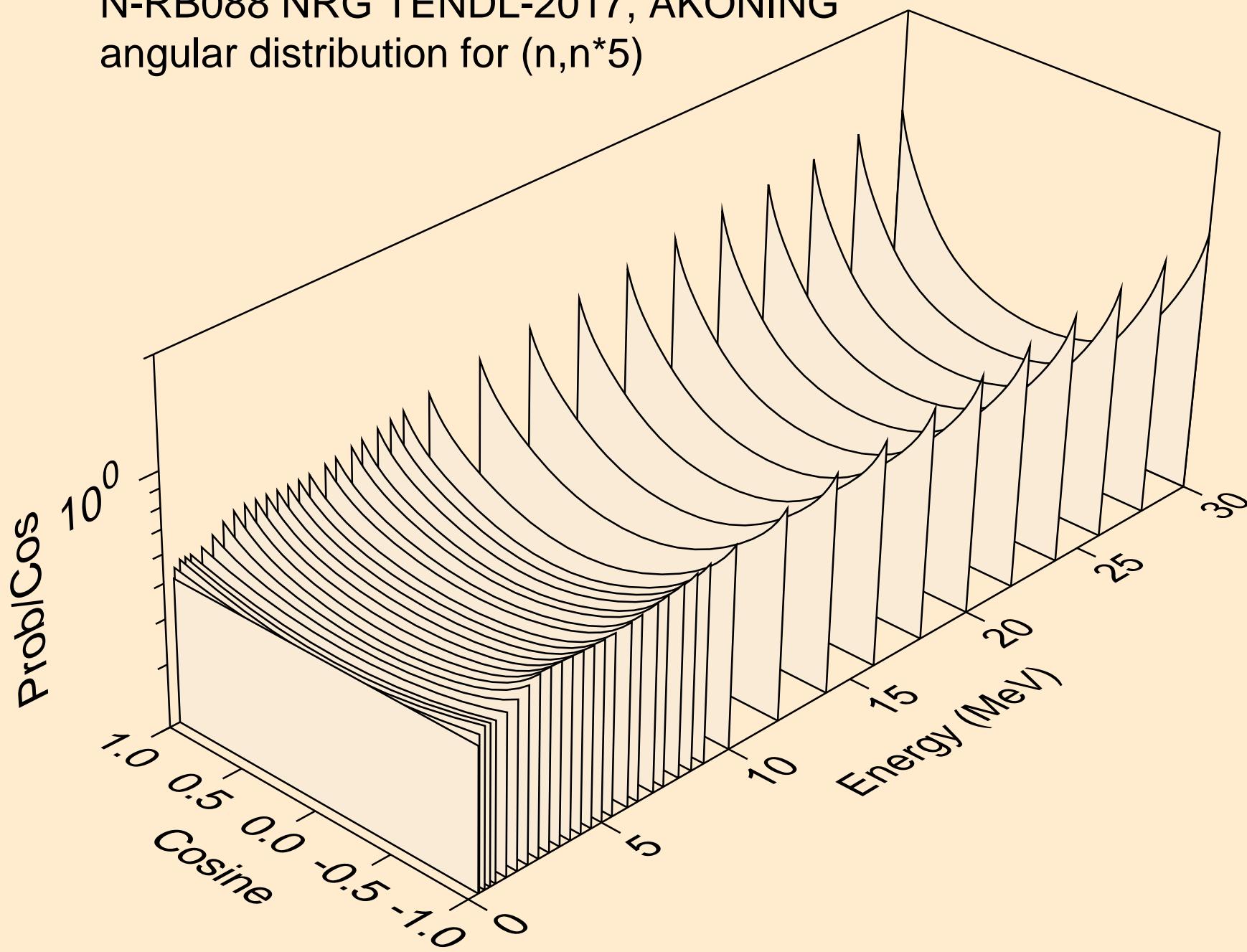
N-RB088 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*3)$



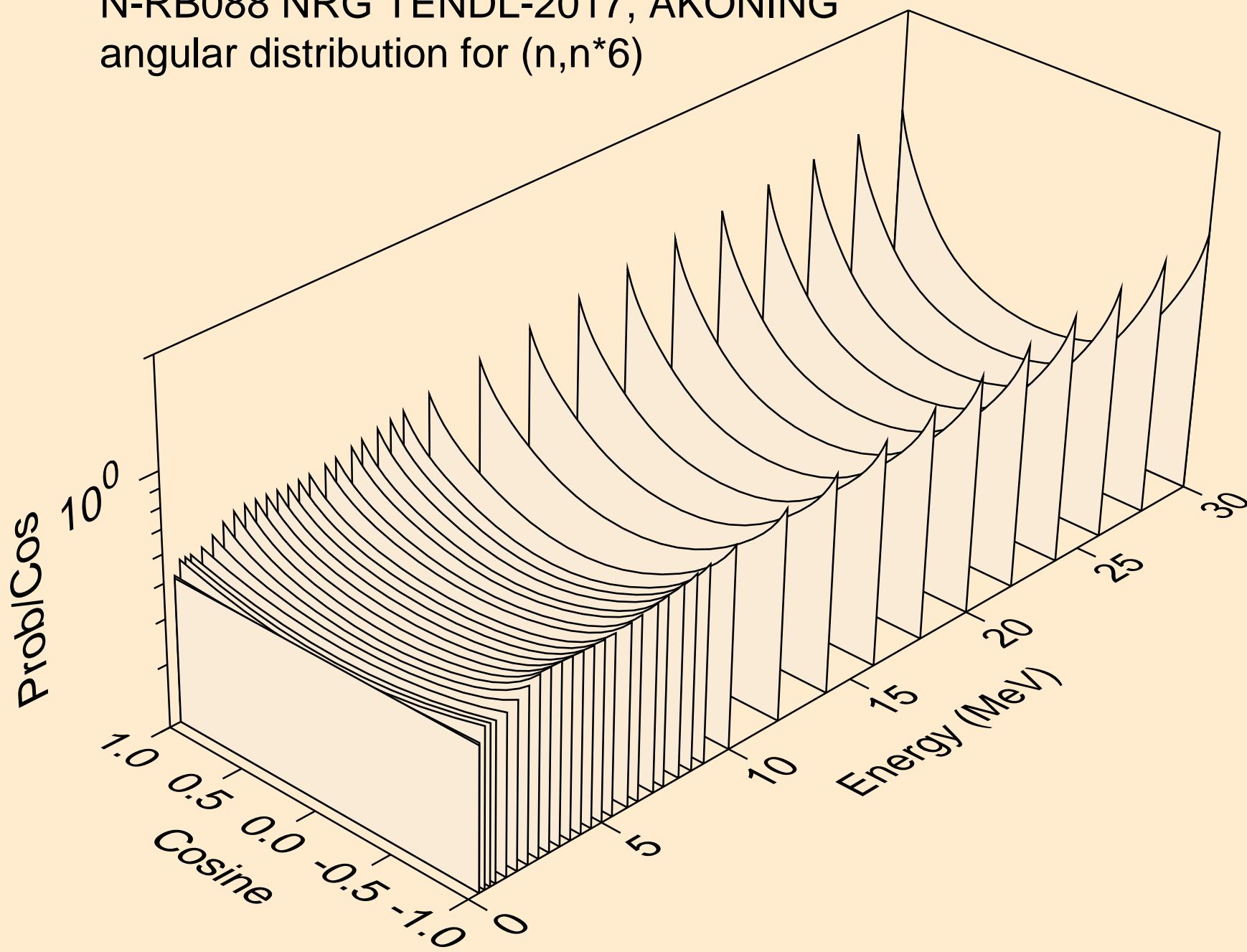
N-RB088 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*4)$



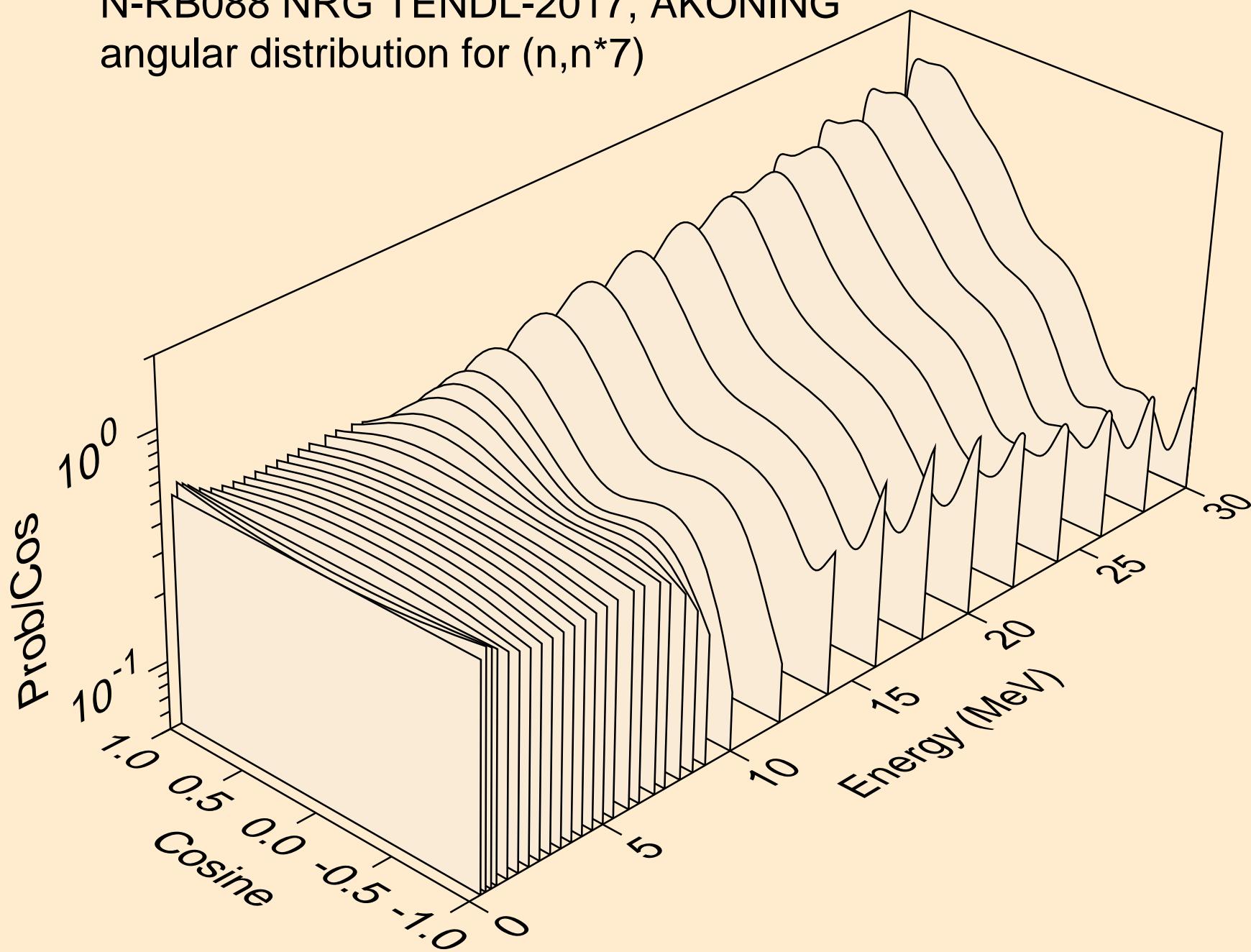
N-RB088 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*)^5$



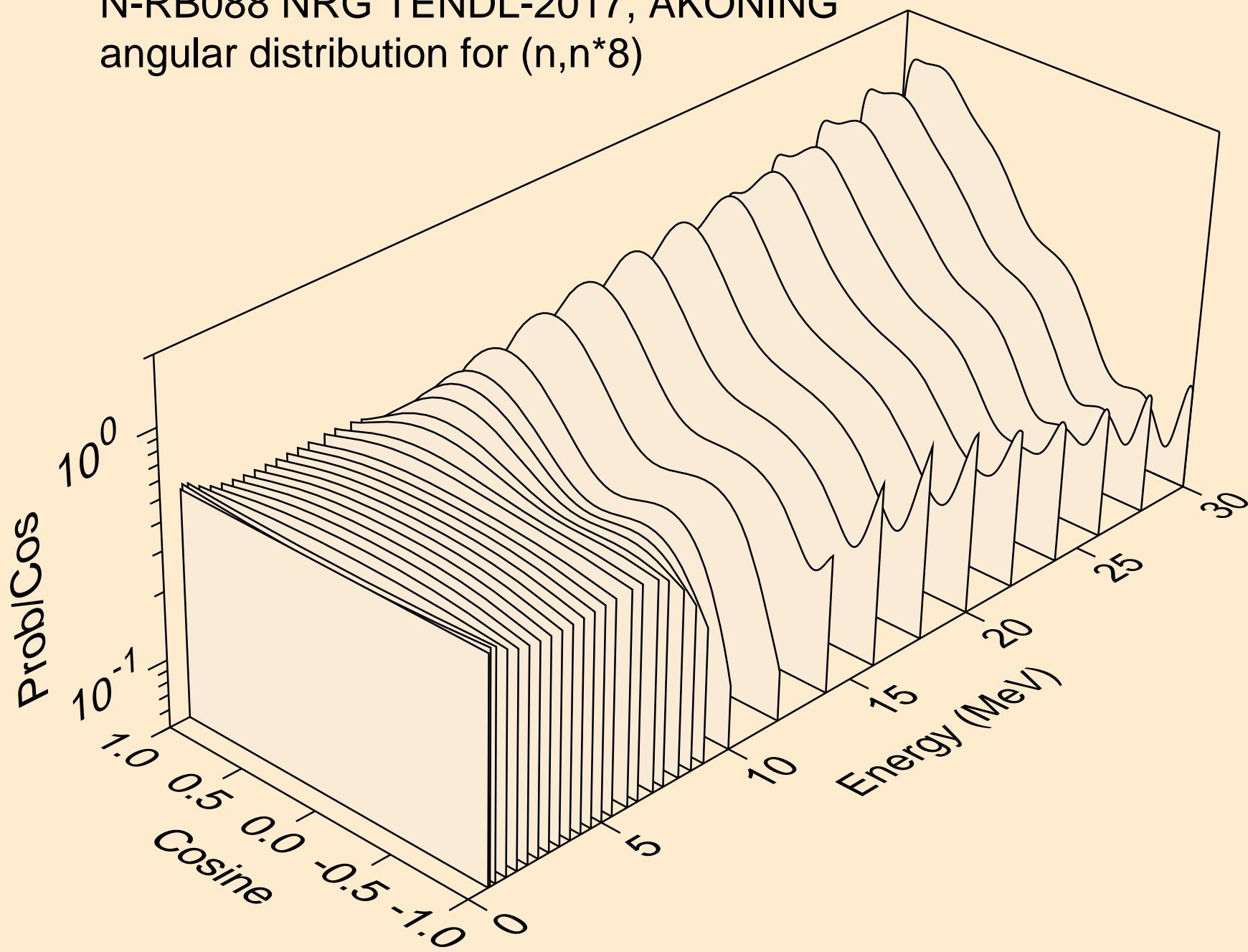
N-RB088 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*6)$



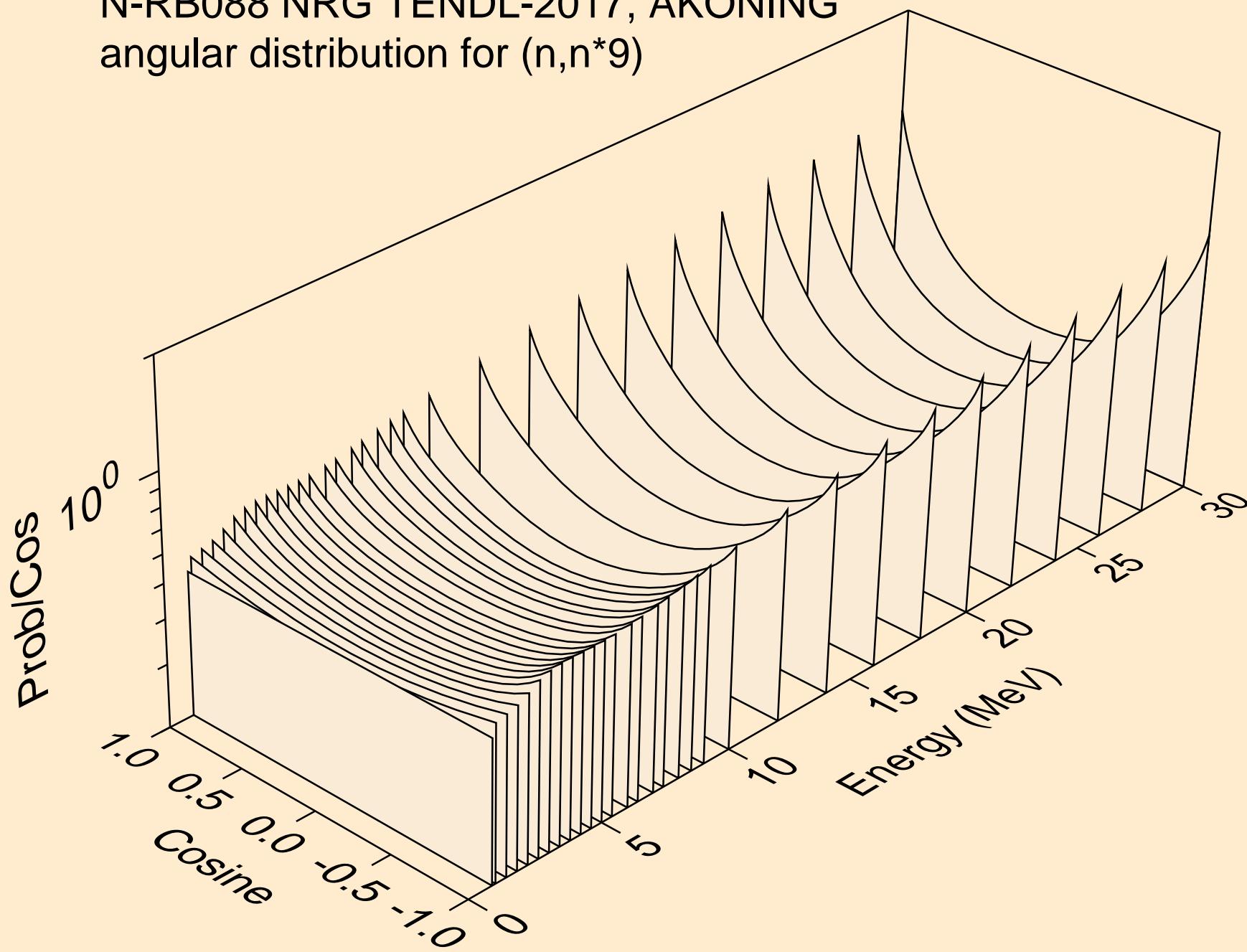
N-RB088 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*)^7$



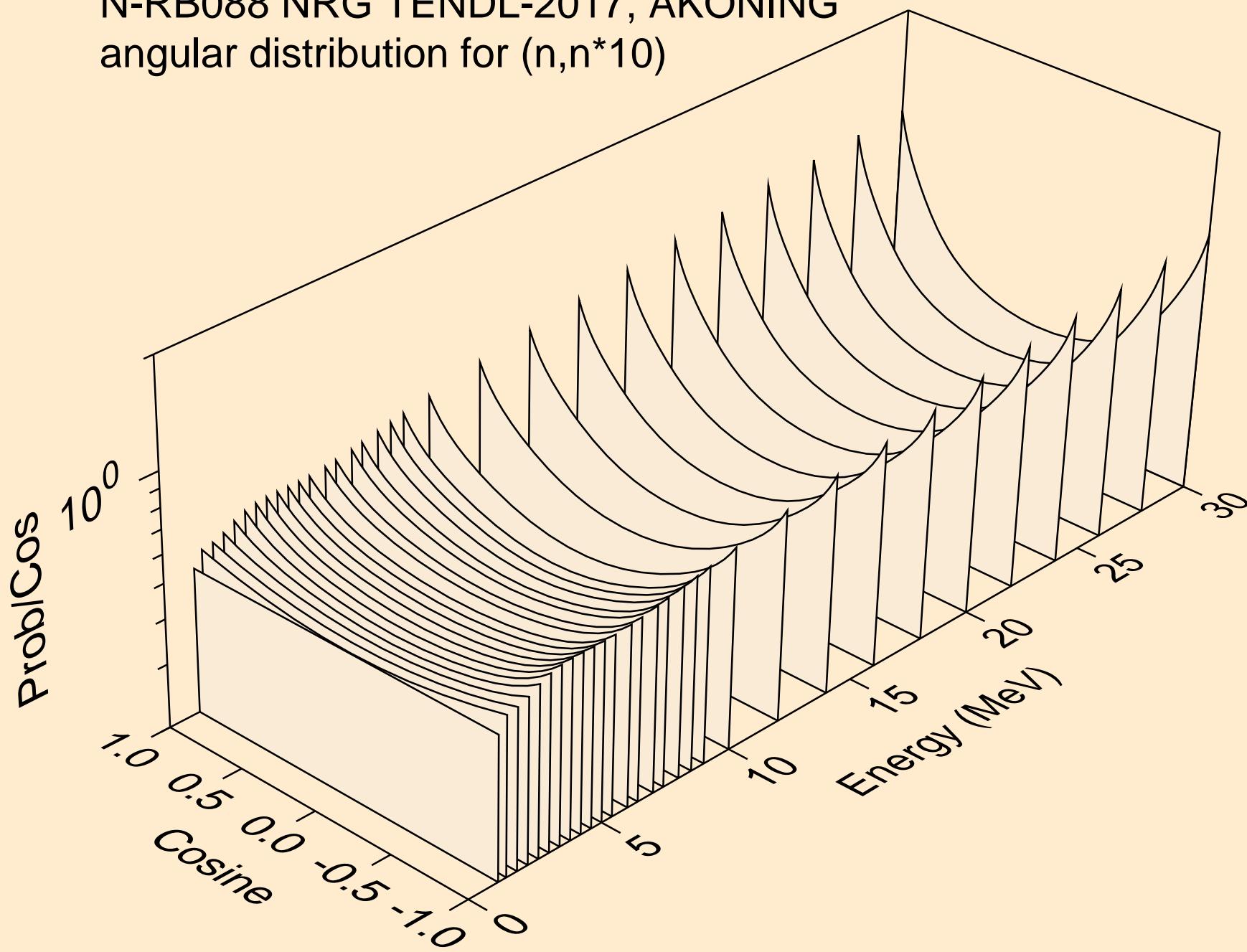
N-RB088 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*8)$



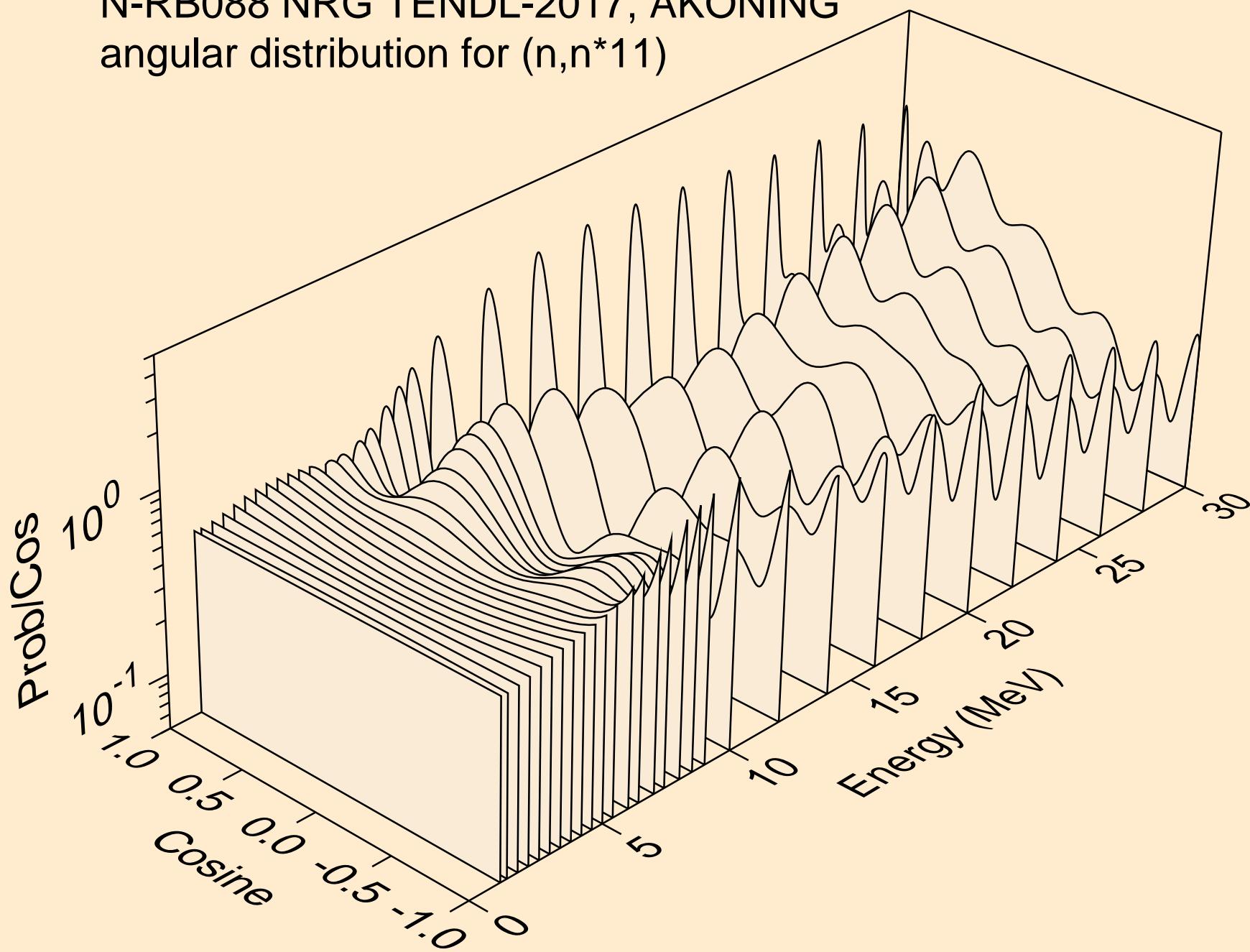
N-RB088 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*)9$



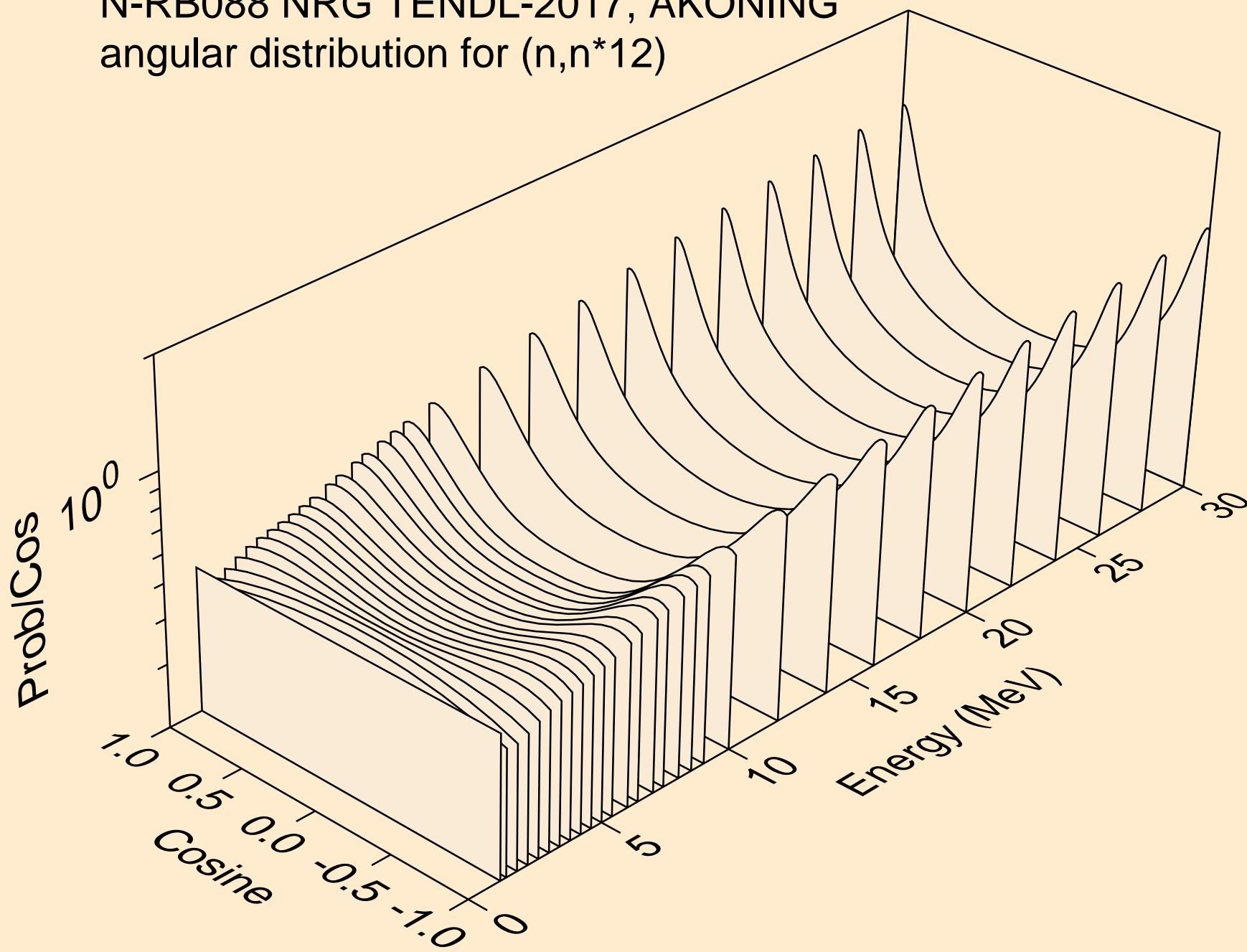
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angular distribution for (n,n\*10)



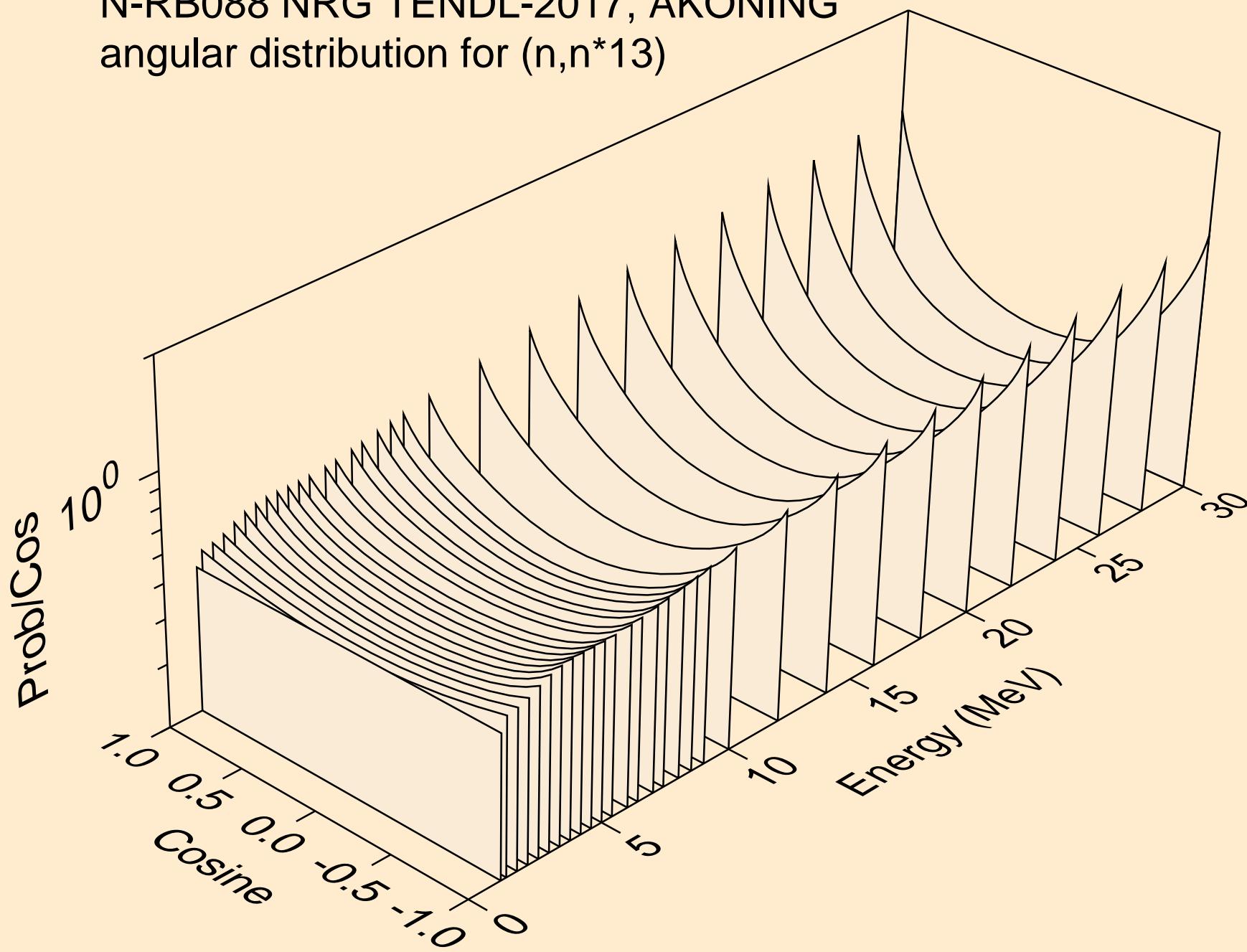
N-RB088 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*11)$



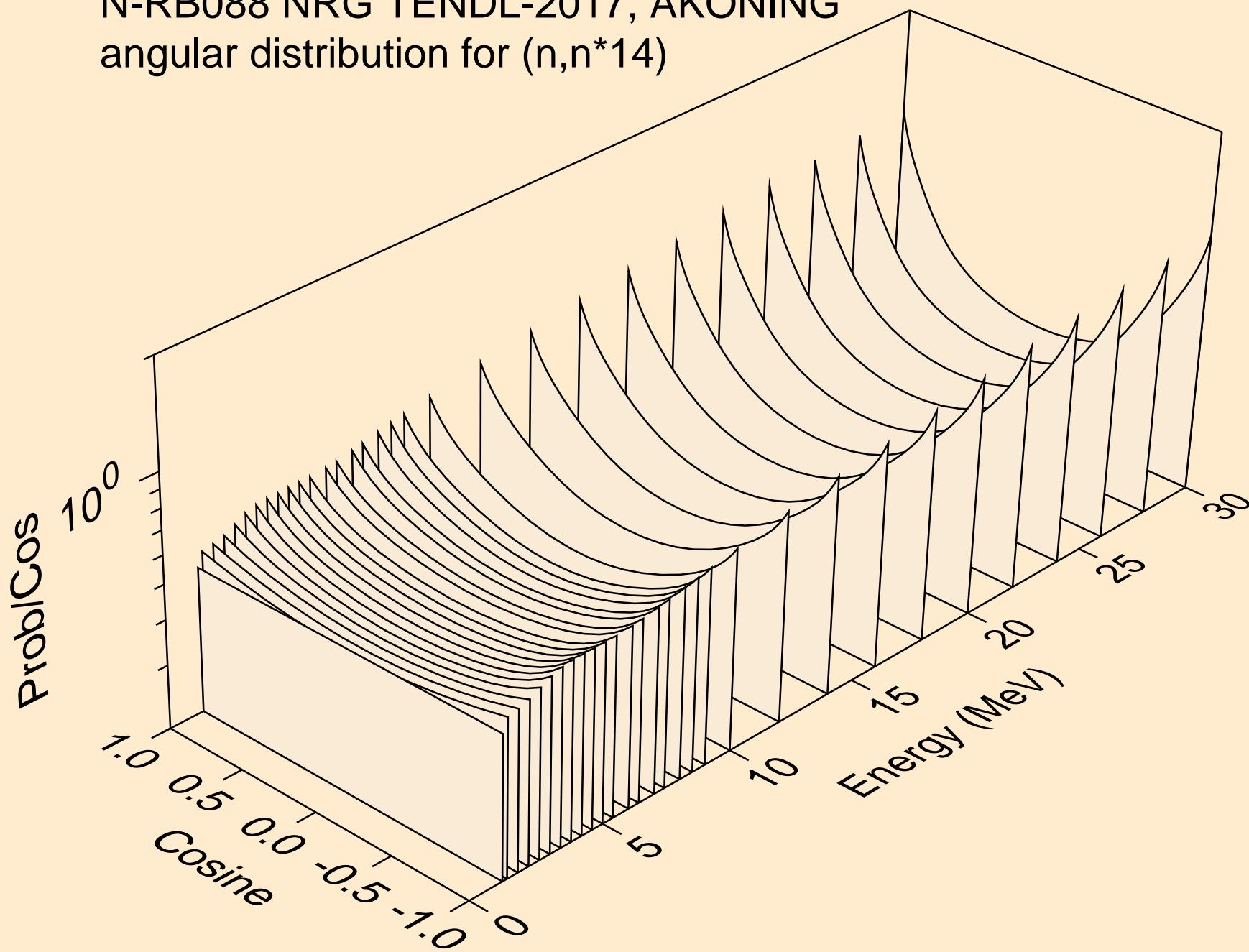
N-RB088 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*12)$



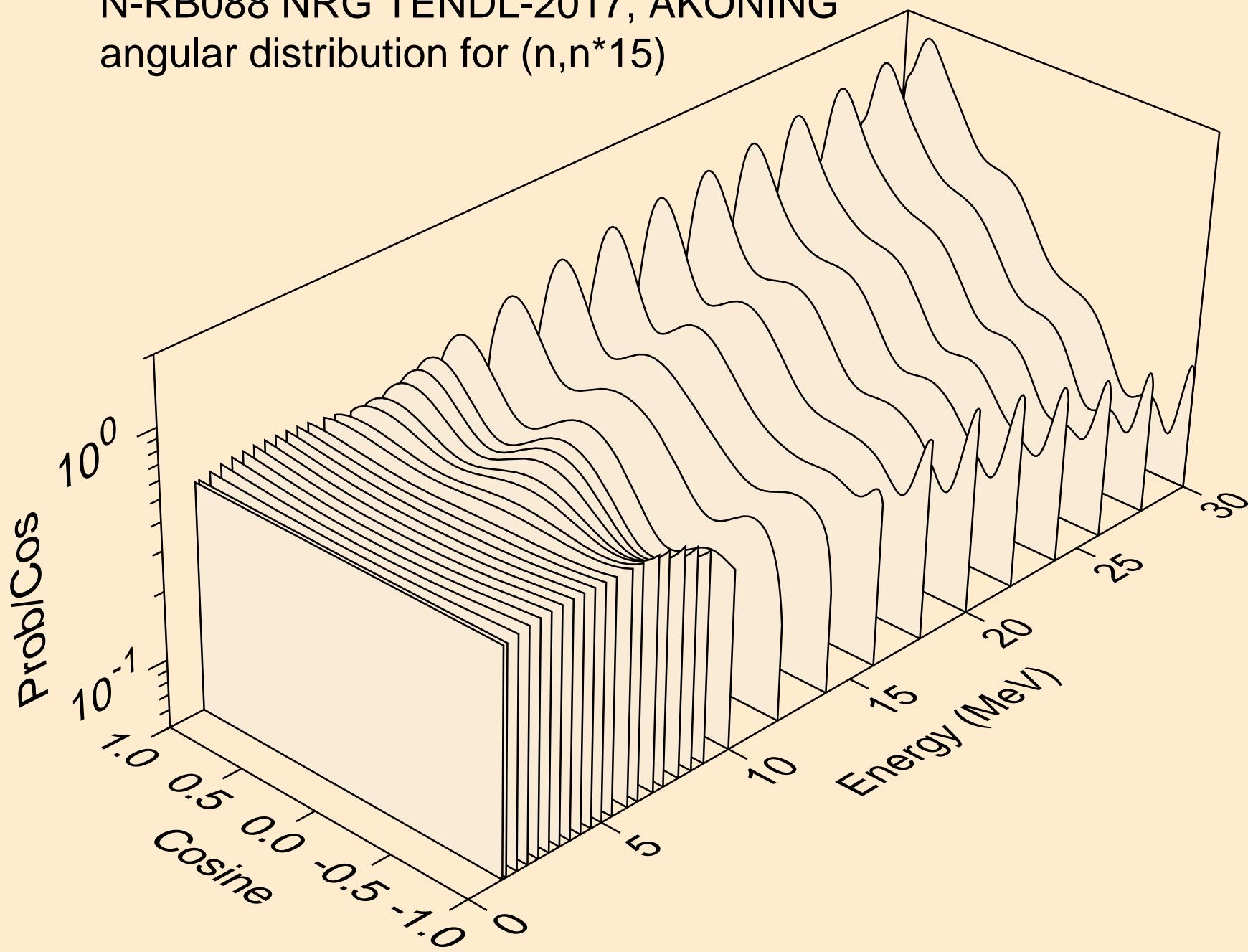
N-RB088 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*13)$



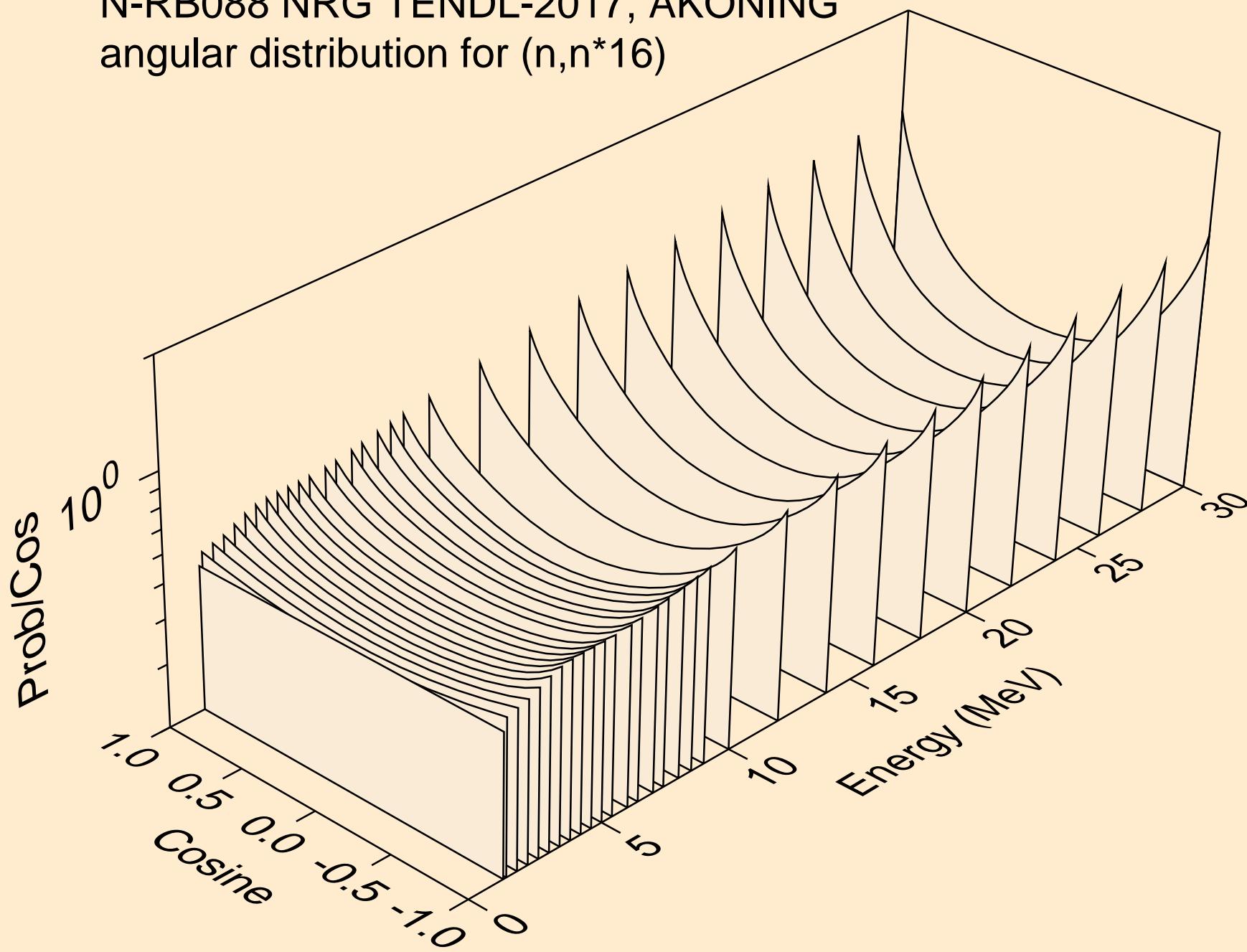
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angular distribution for (n,n\*14)



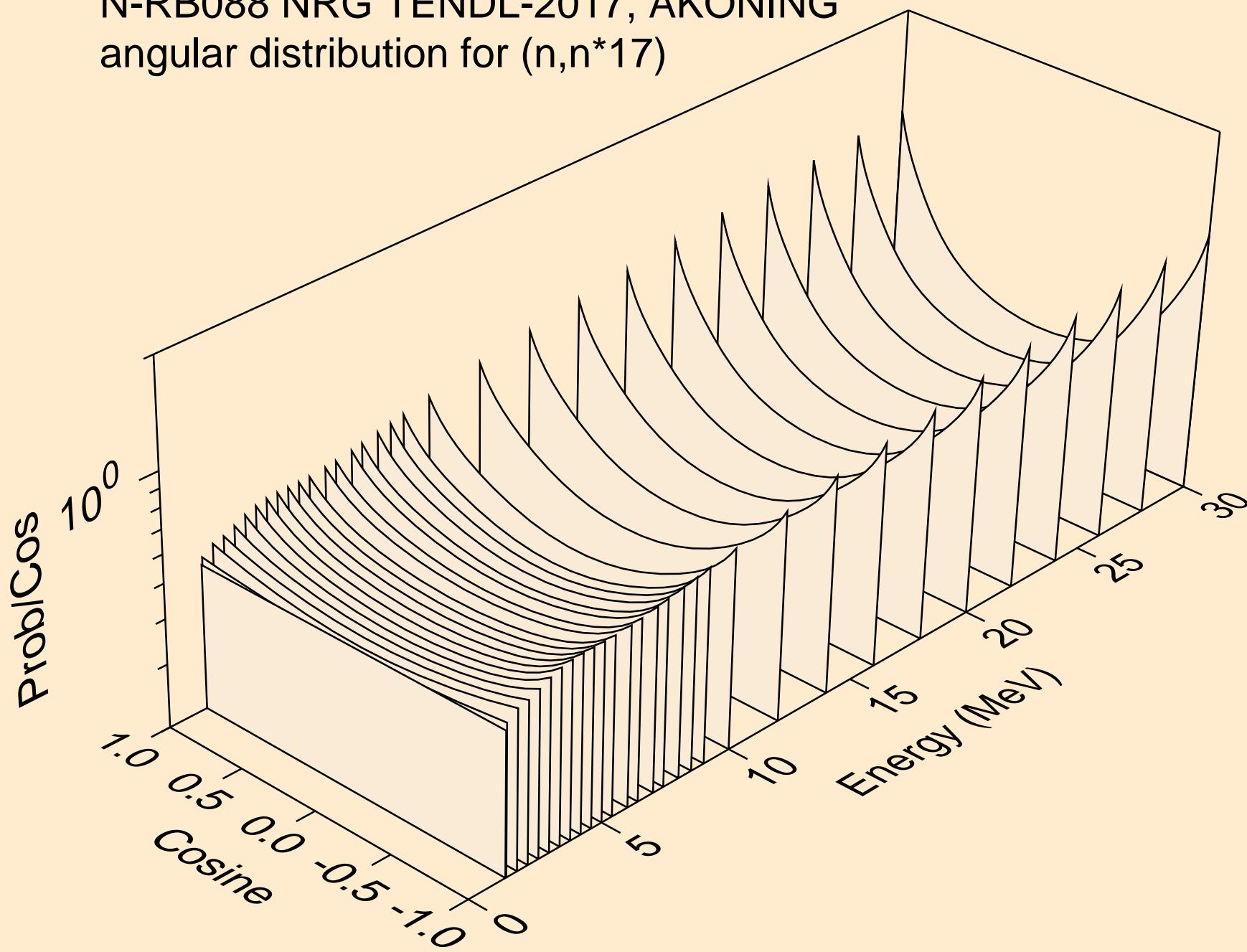
N-RB088 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*15)$



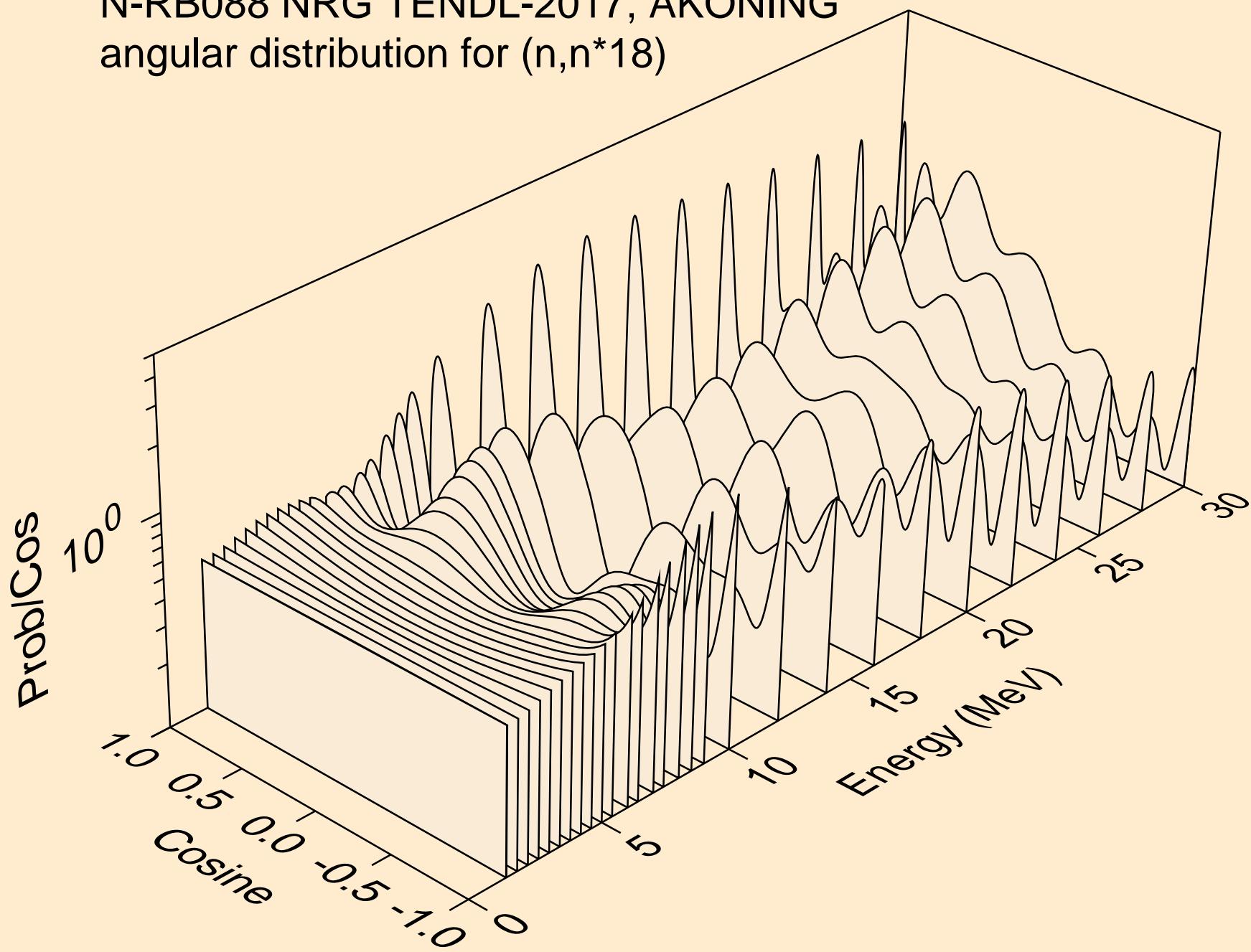
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angular distribution for  $(n,n^*16)$



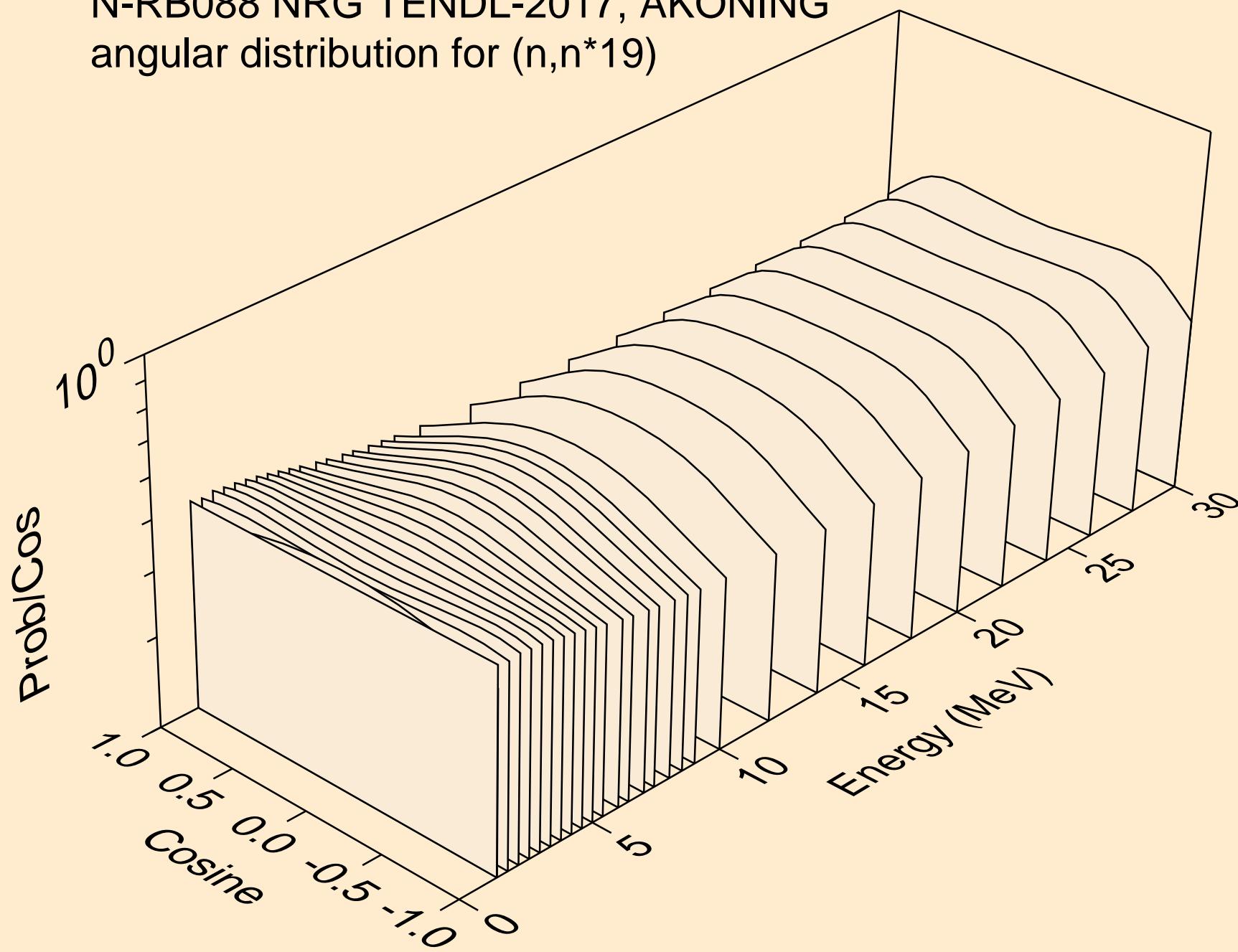
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angular distribution for (n,n\*17)



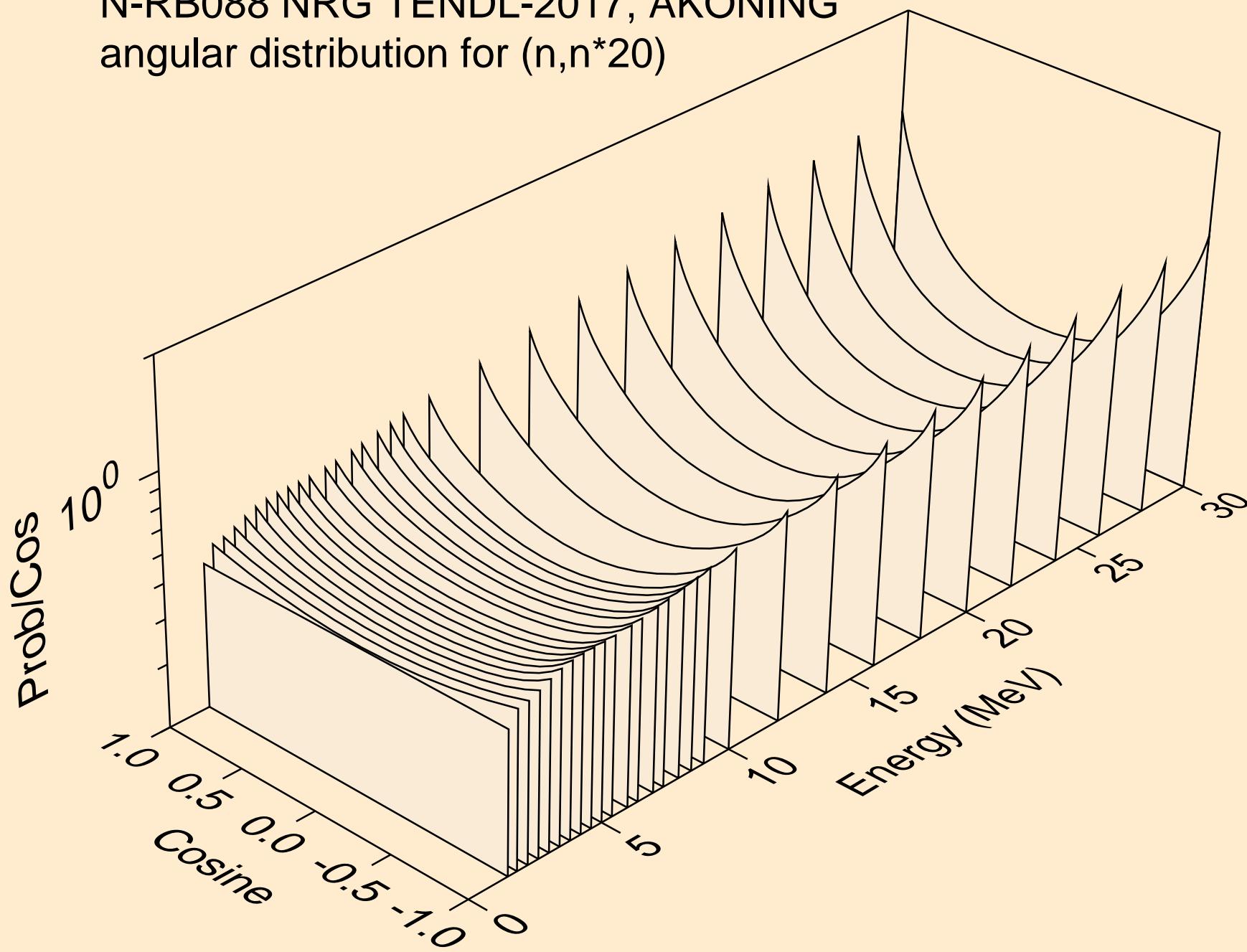
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angular distribution for  $(n,n^*18)$



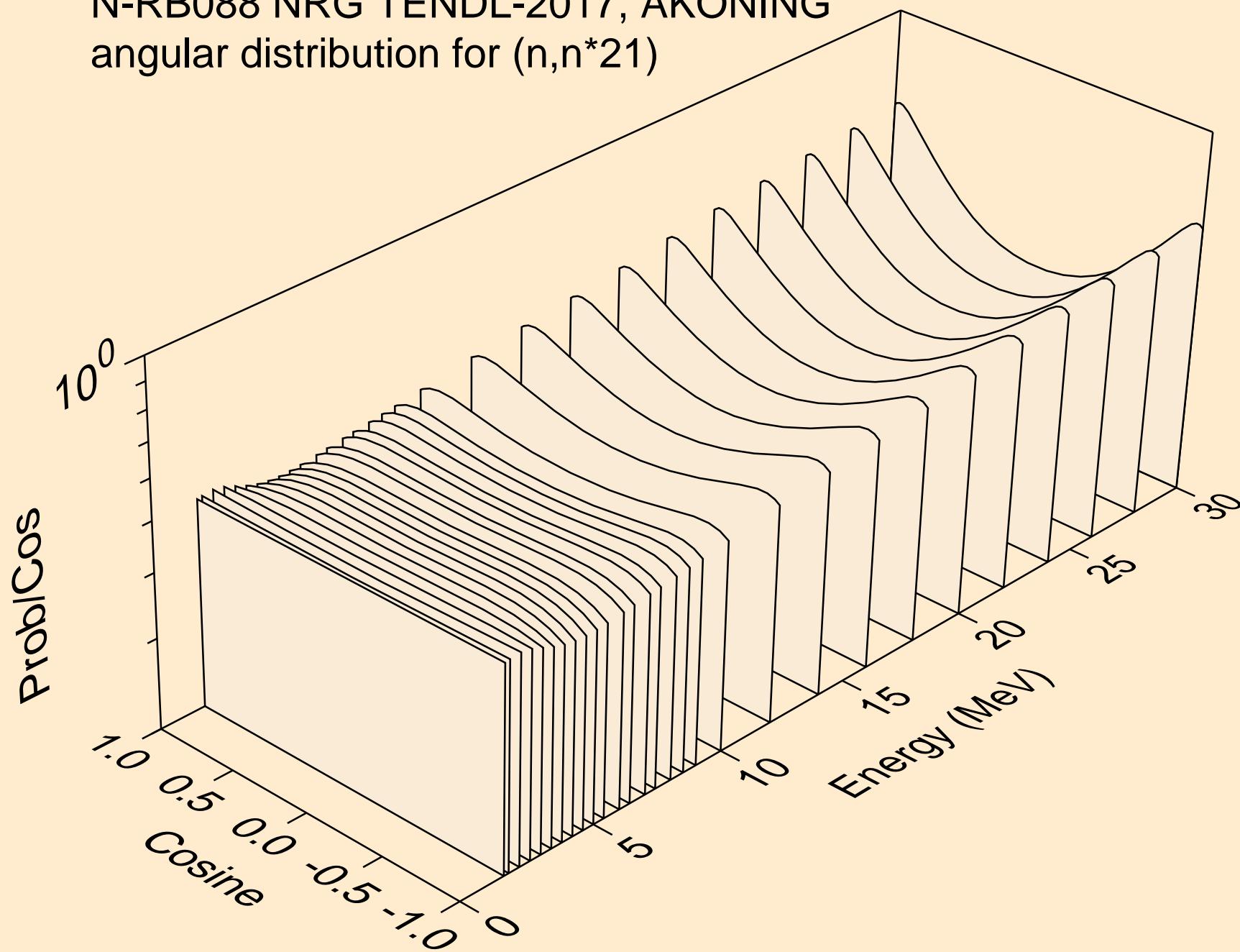
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angular distribution for (n,n\*19)



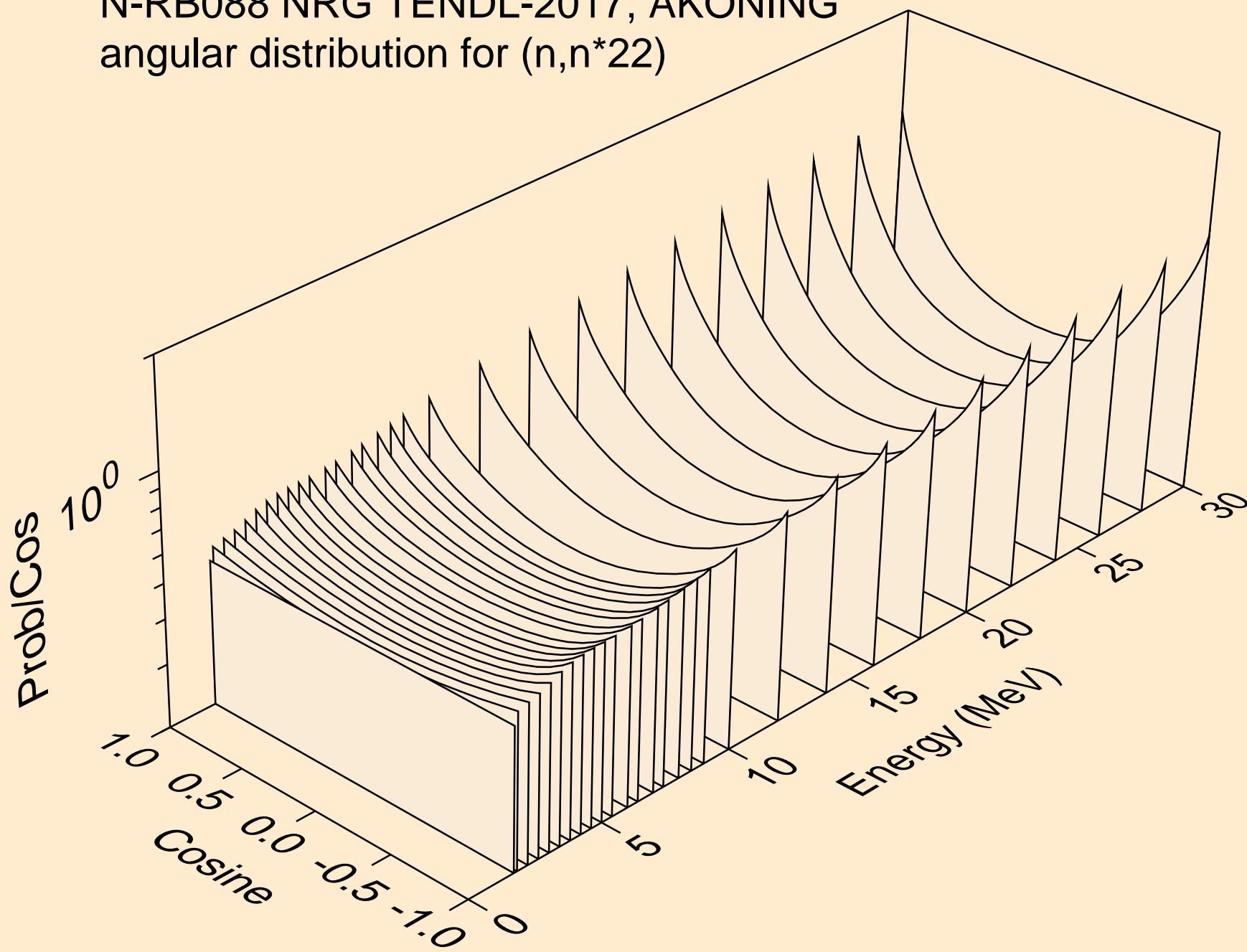
N-RB088 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*)$  20



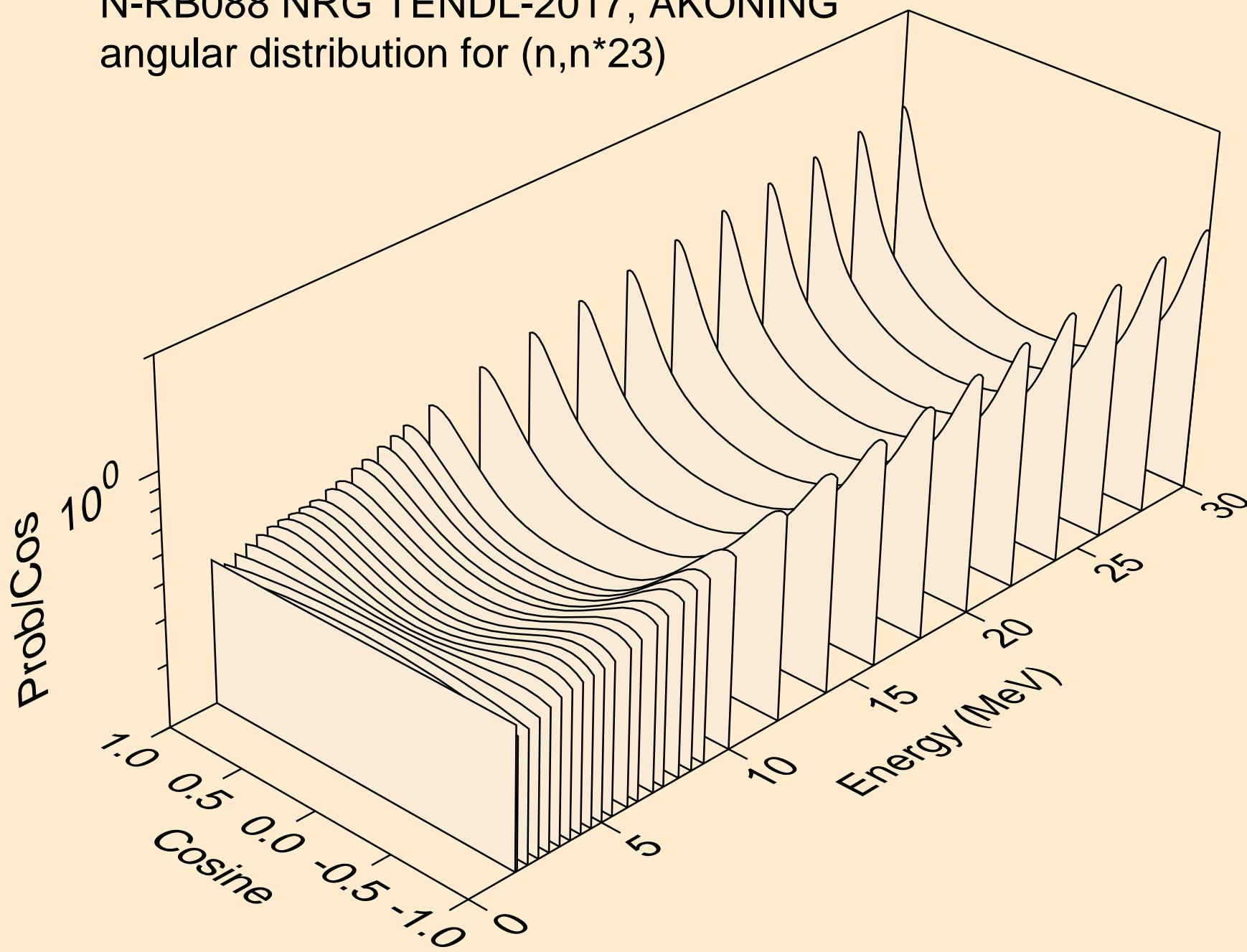
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angular distribution for  $(n,n^*21)$



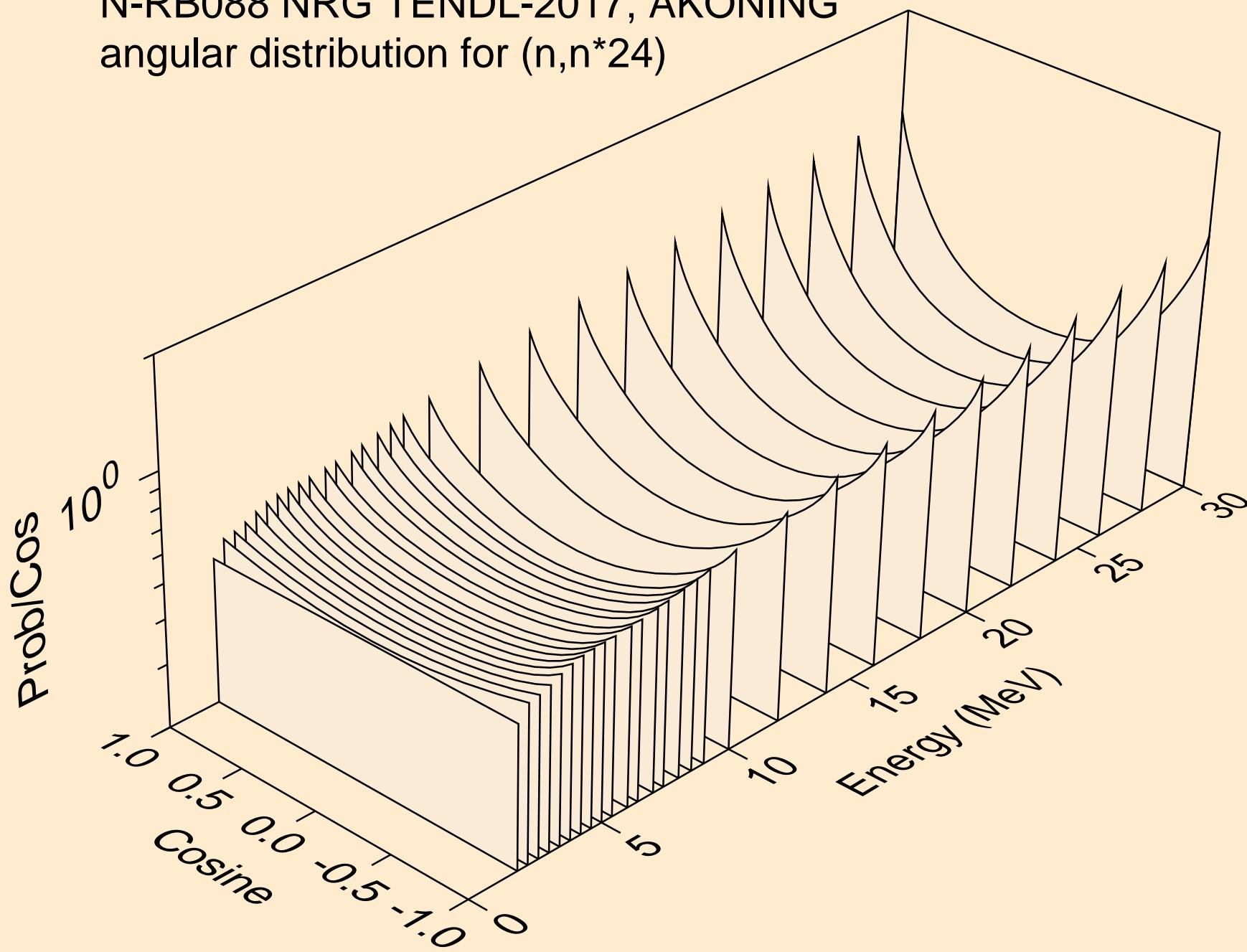
N-RB088 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*)_{22}$



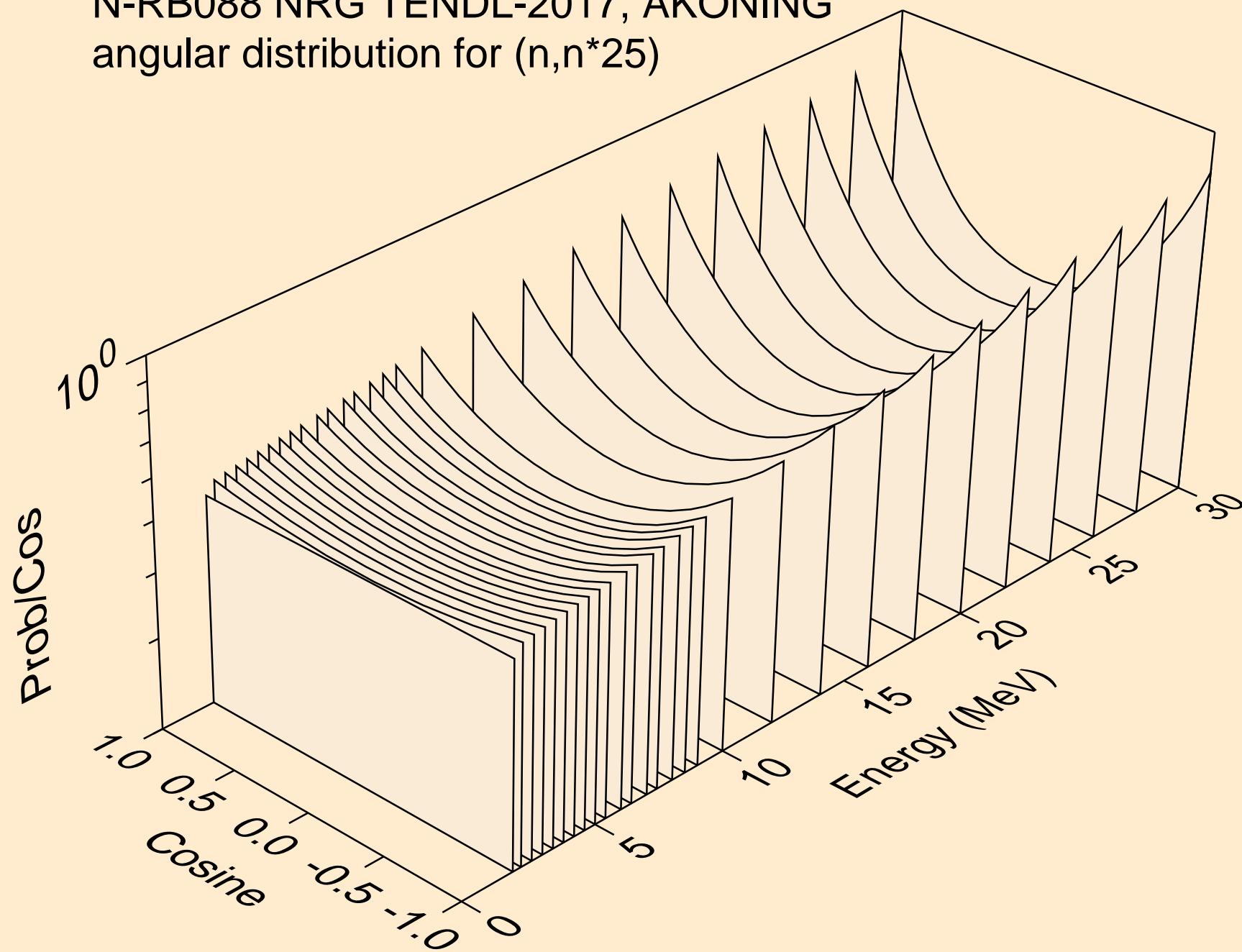
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angular distribution for  $(n,n^*)_{23}$



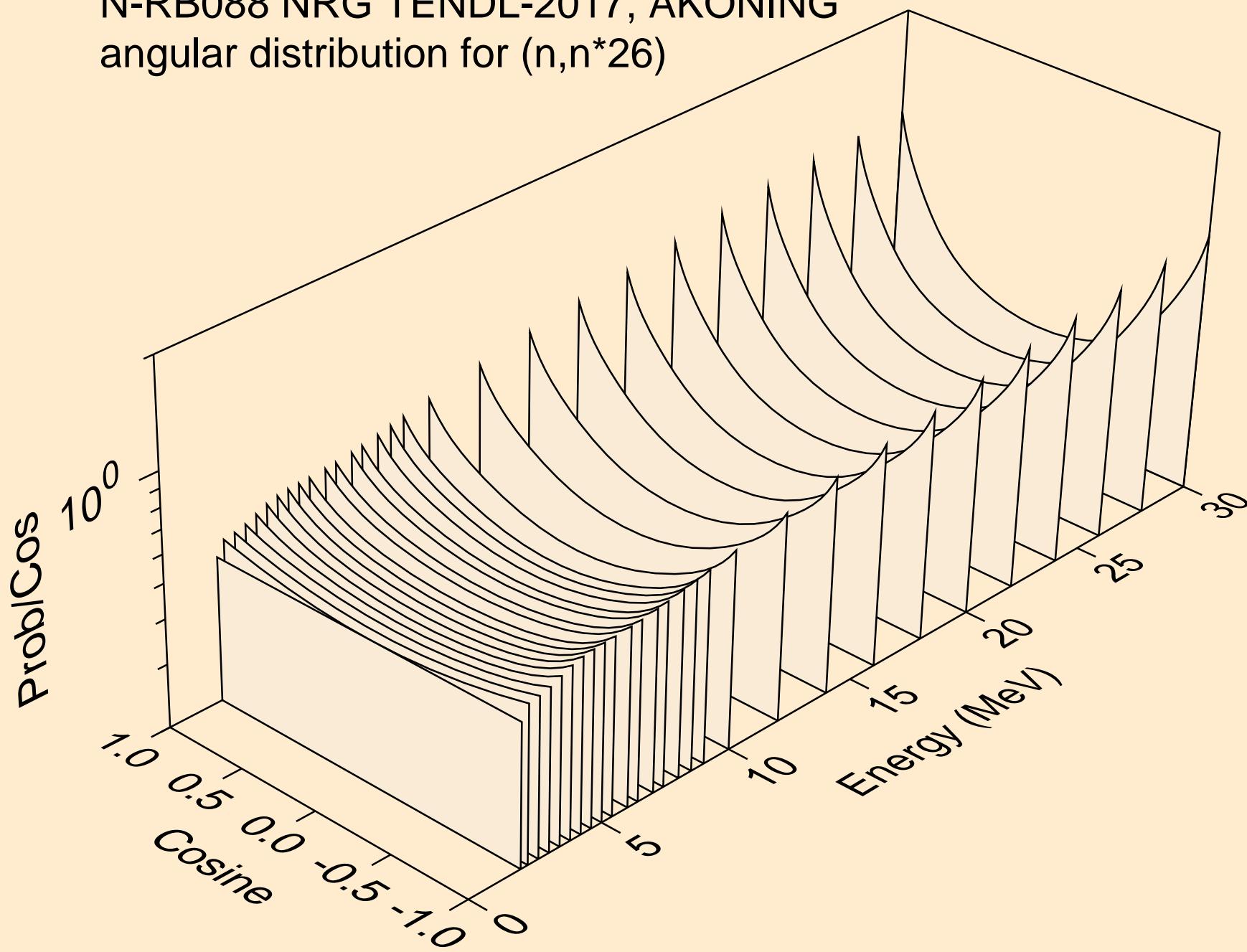
N-RB088 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*)^{24}$



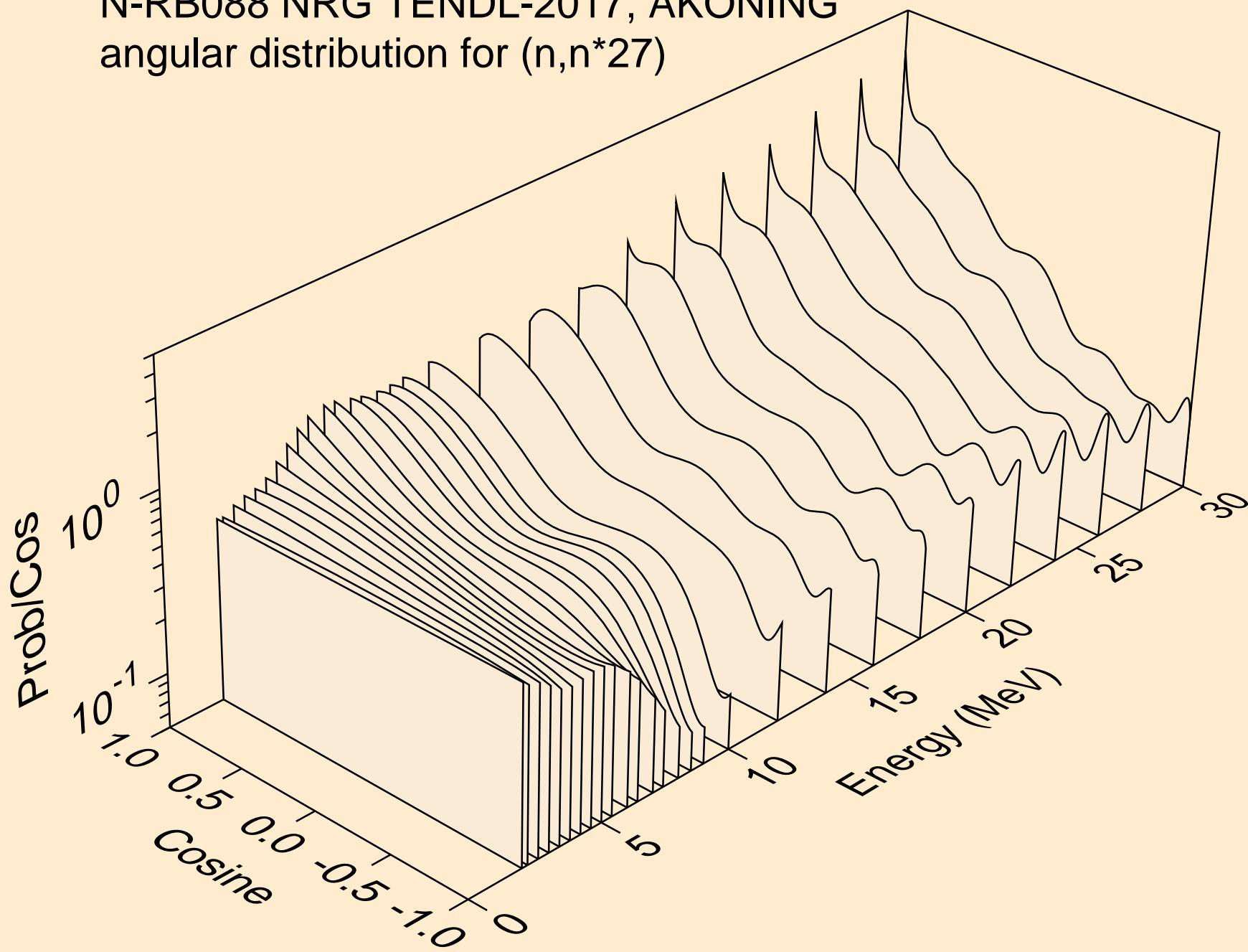
N-RB088 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*25)



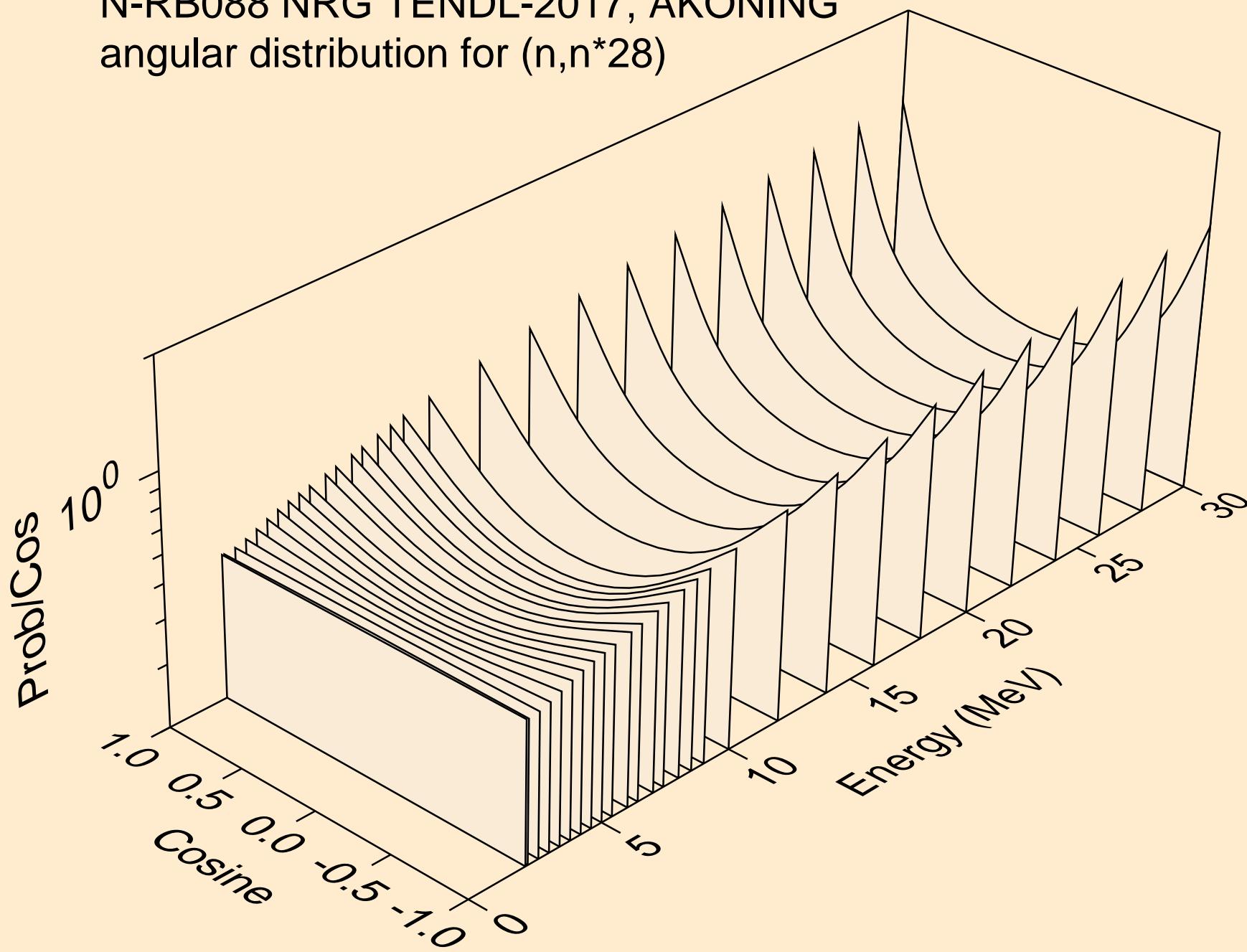
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angular distribution for  $(n,n^*)_{26}$



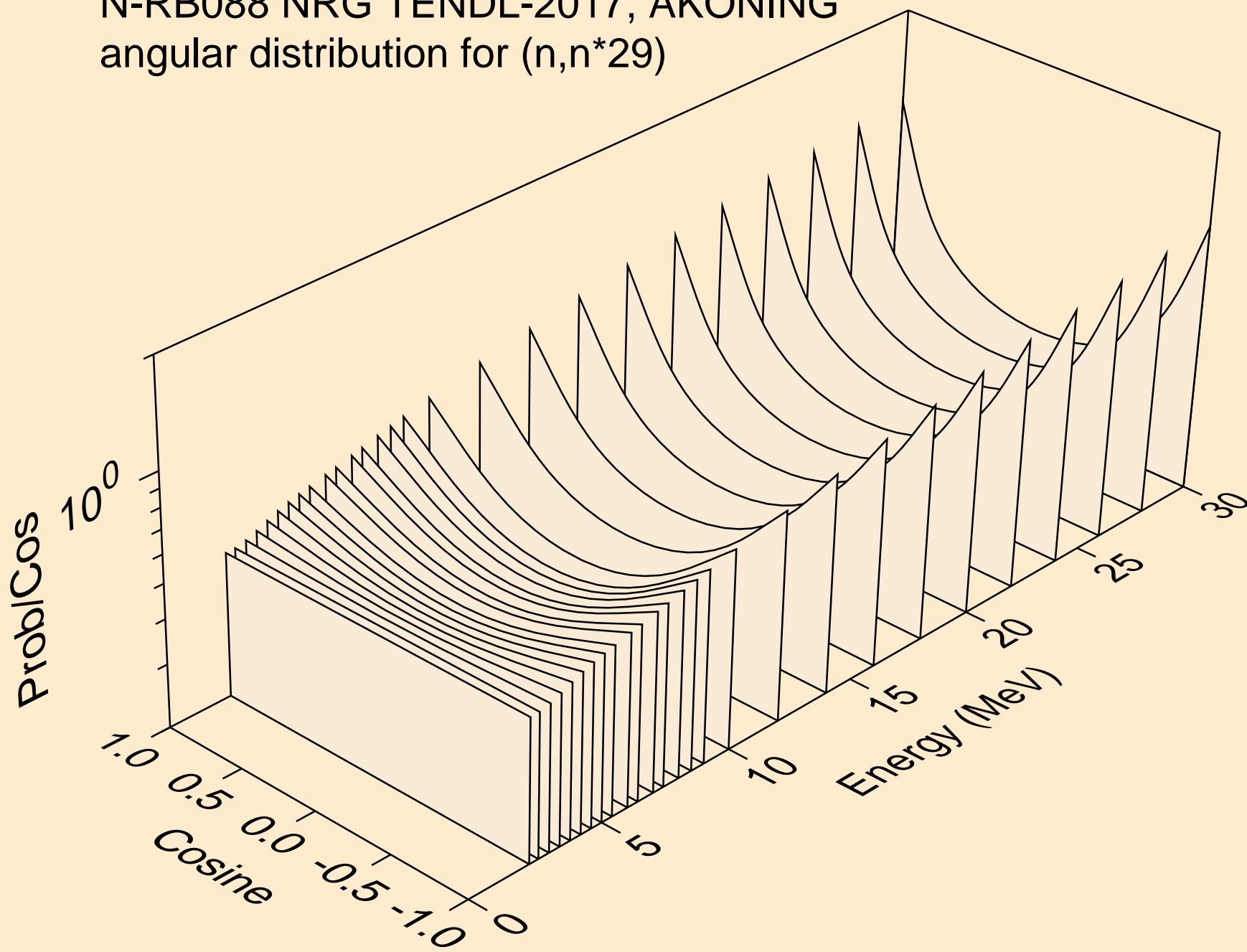
N-RB088 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*27)$



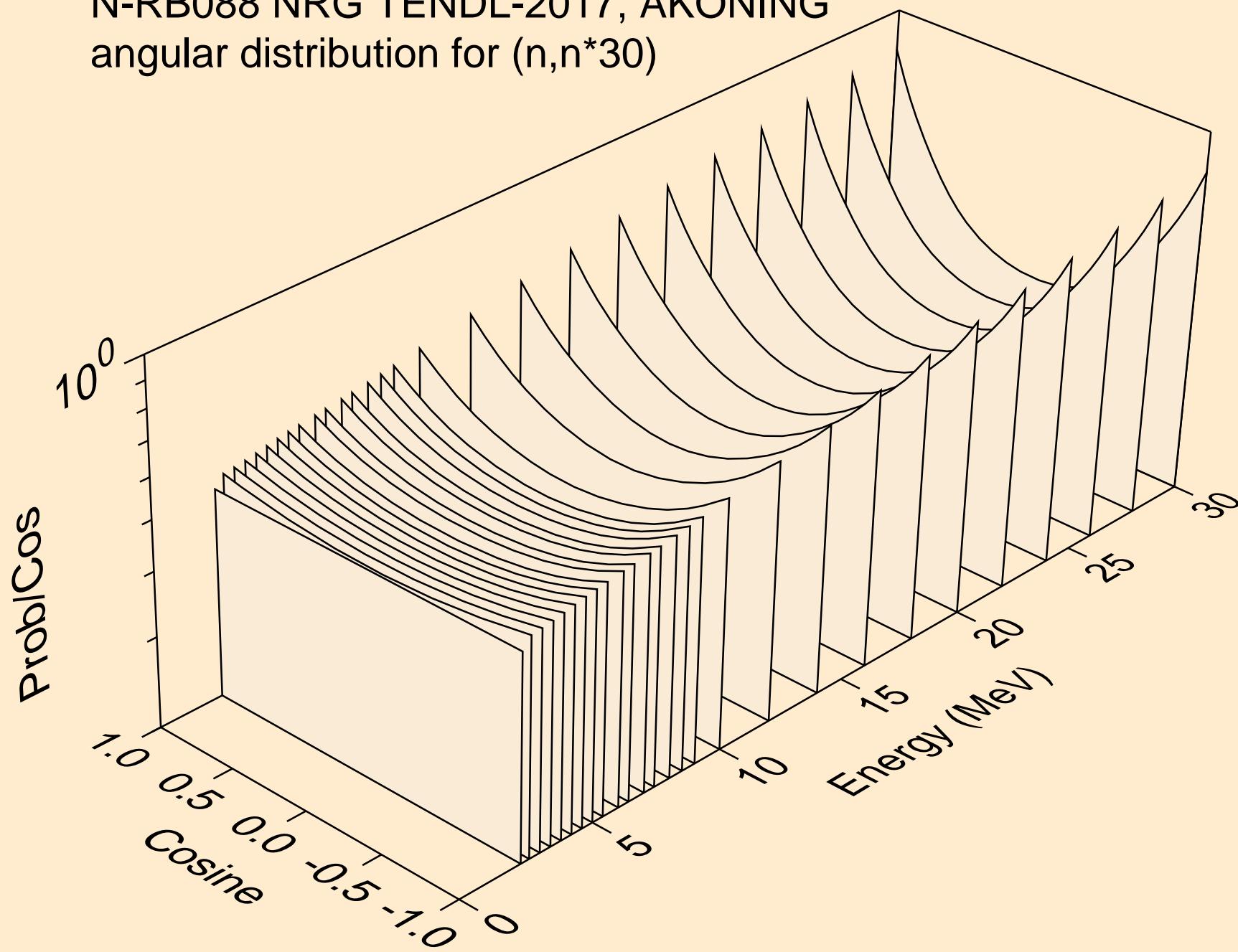
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angular distribution for  $(n,n^*)^{28}$



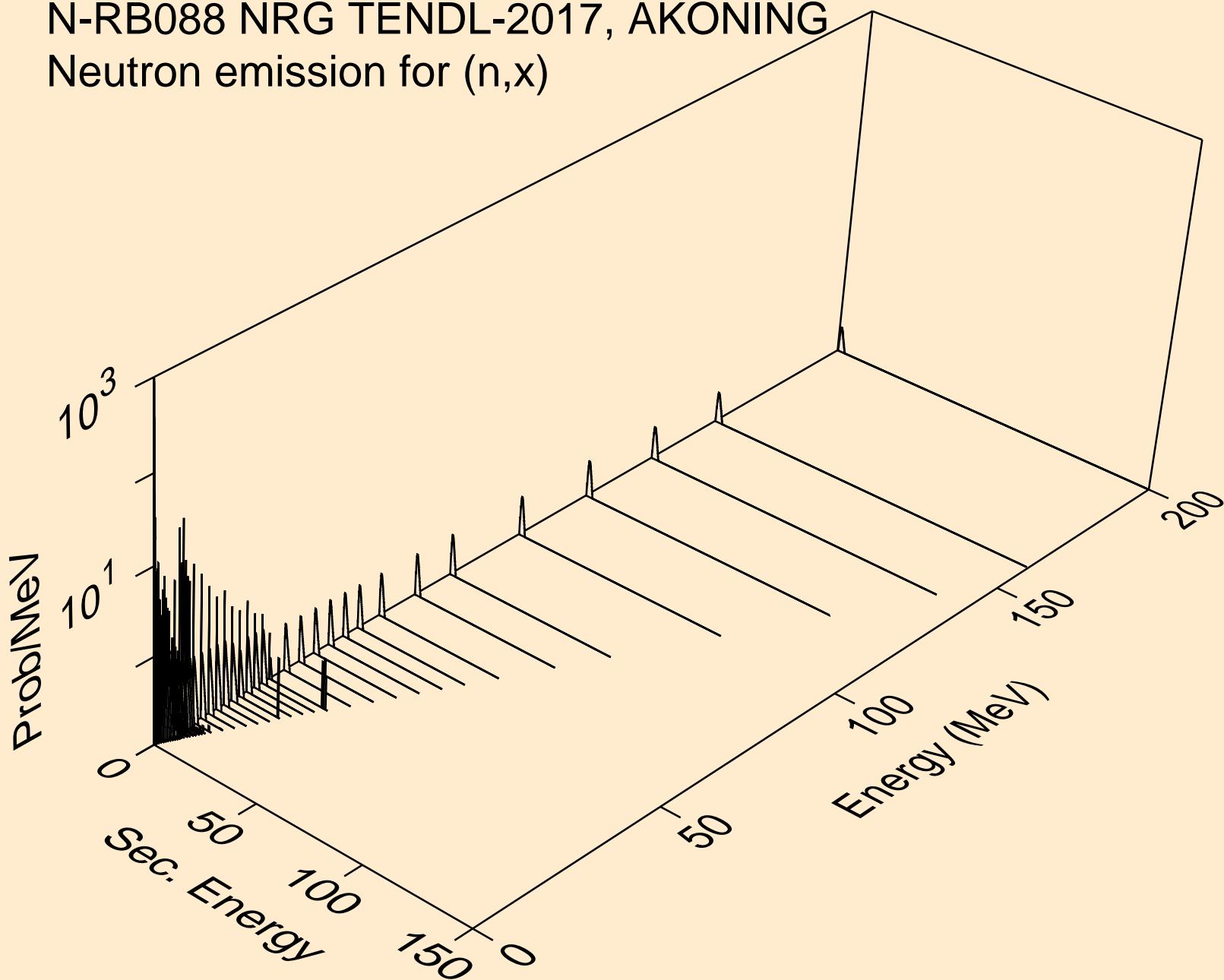
N-RB088 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*29)$



N-RB088 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*30)

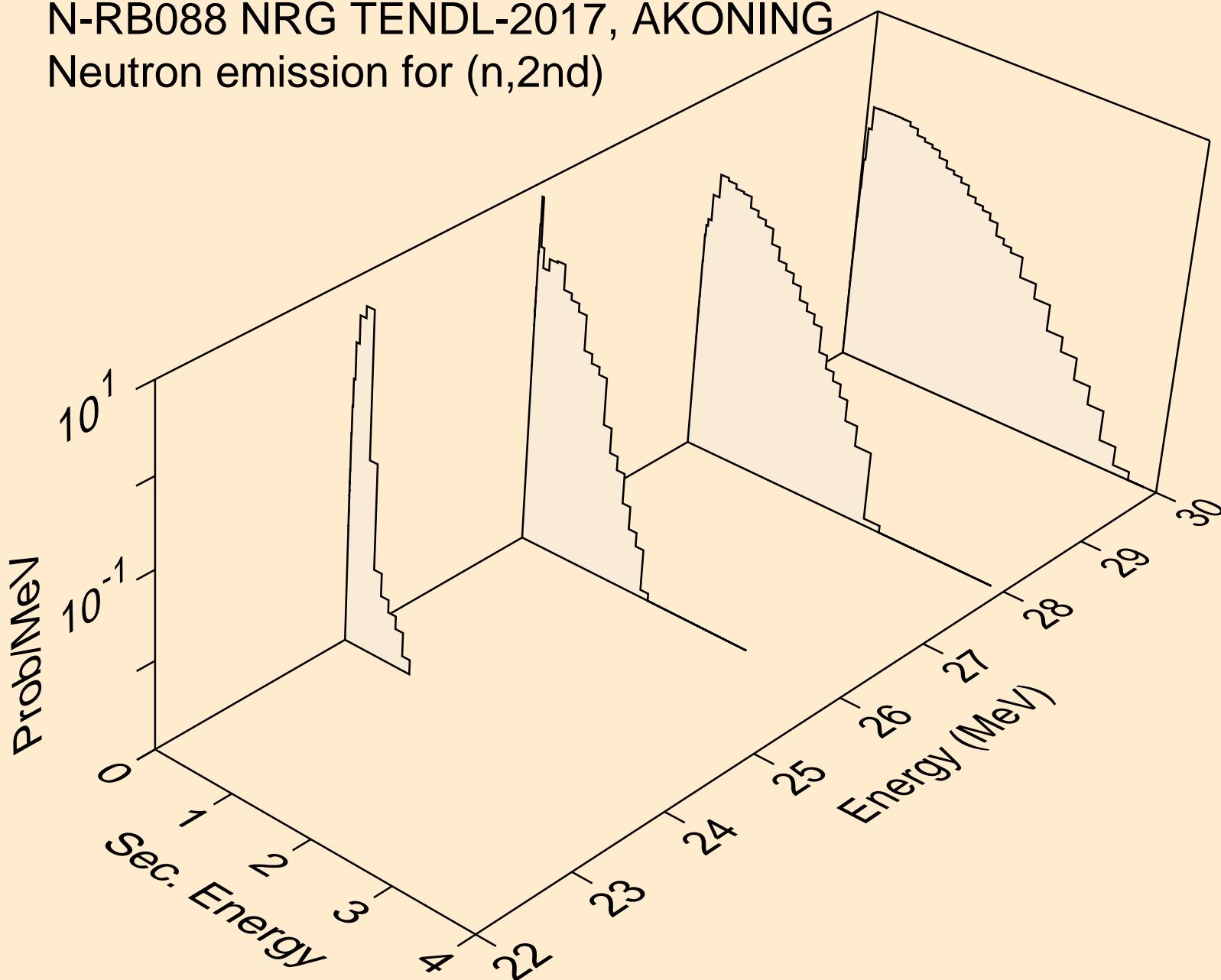


N-RB088 NRG TENDL-2017, AKONING  
Neutron emission for (n,x)

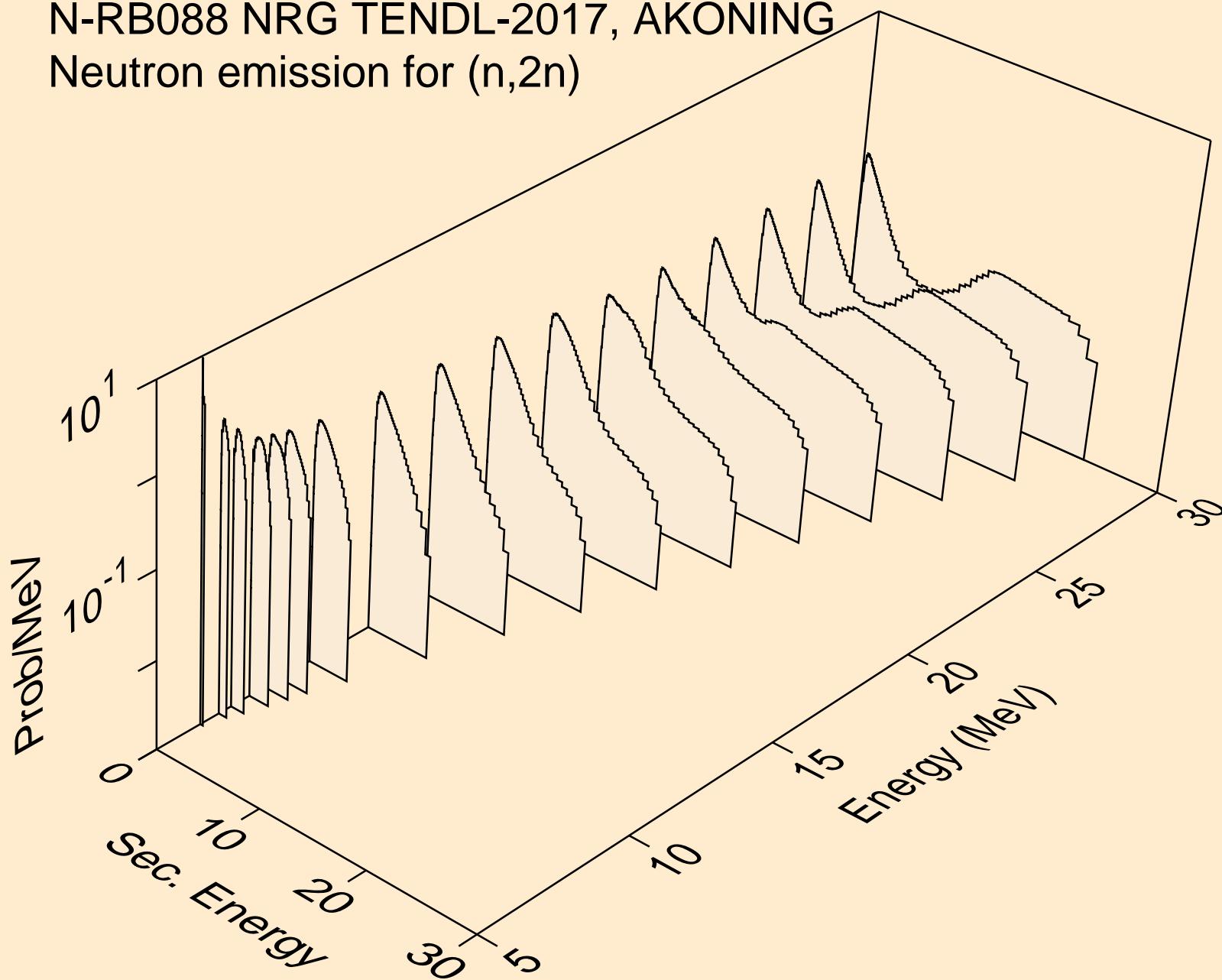


N-RB088 NRG TENDL-2017, AKONING

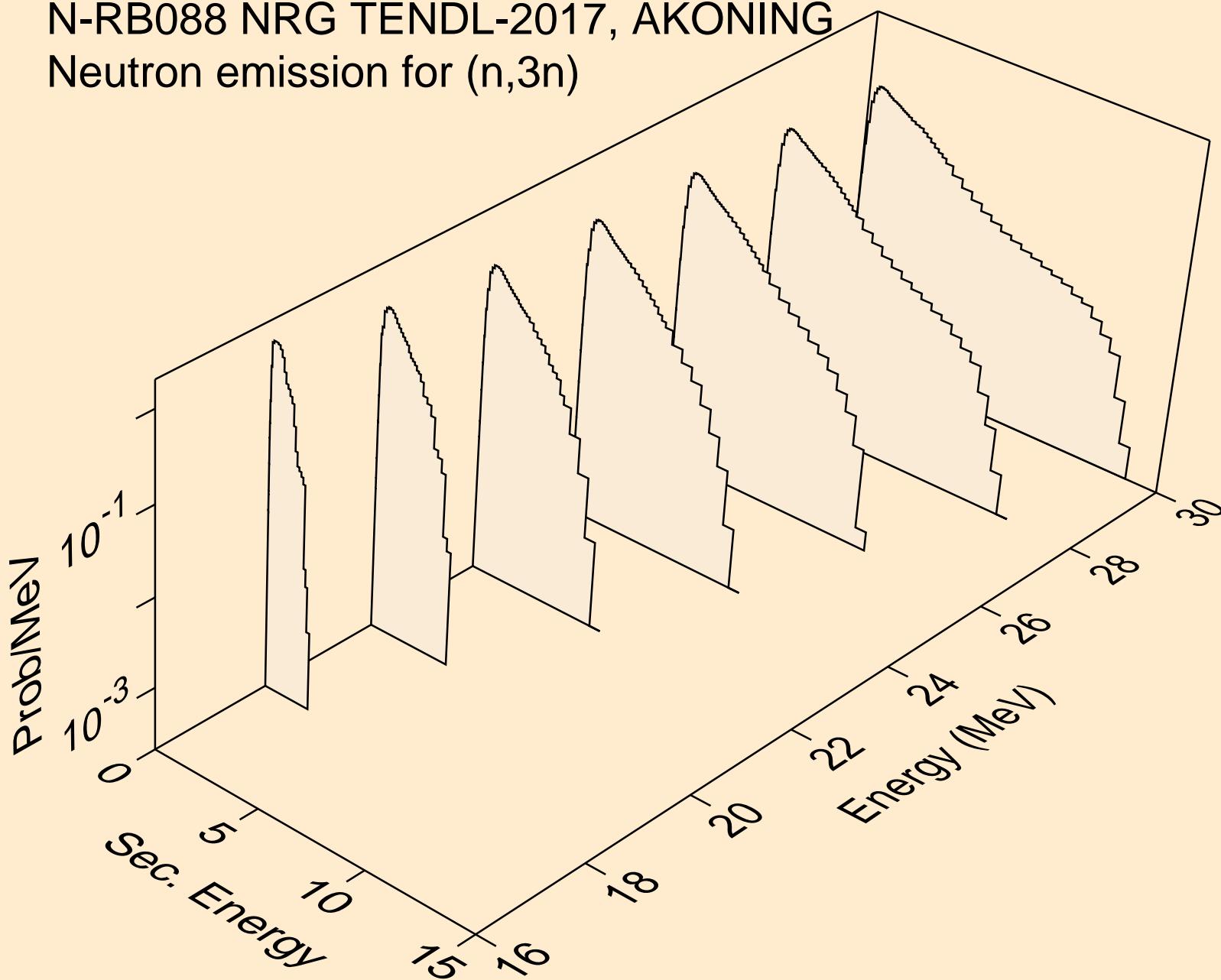
Neutron emission for (n,2nd)



N-RB088 NRG TENDL-2017, AKONING  
Neutron emission for (n,2n)

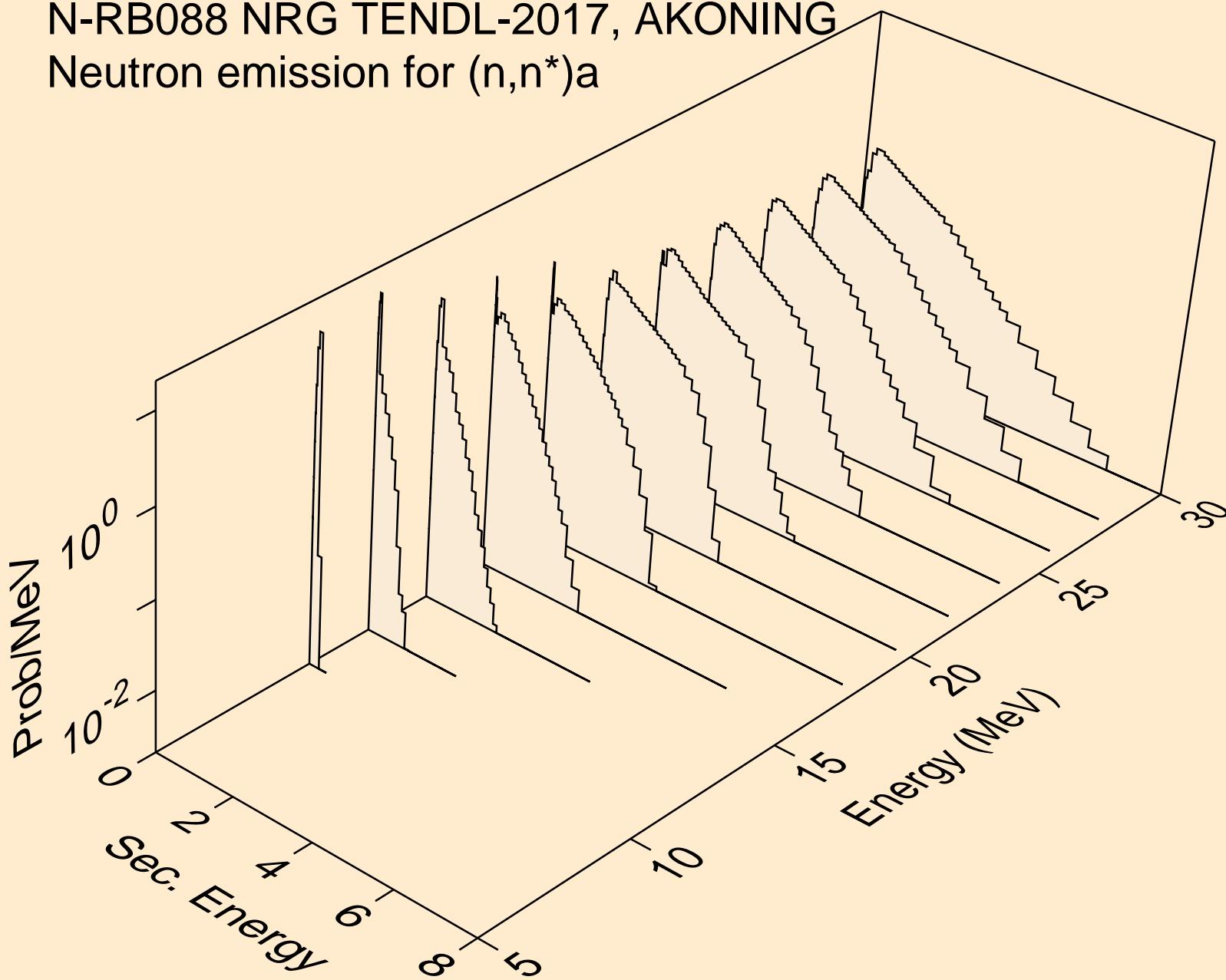


N-RB088 NRG TENDL-2017, AKONING  
Neutron emission for (n,3n)



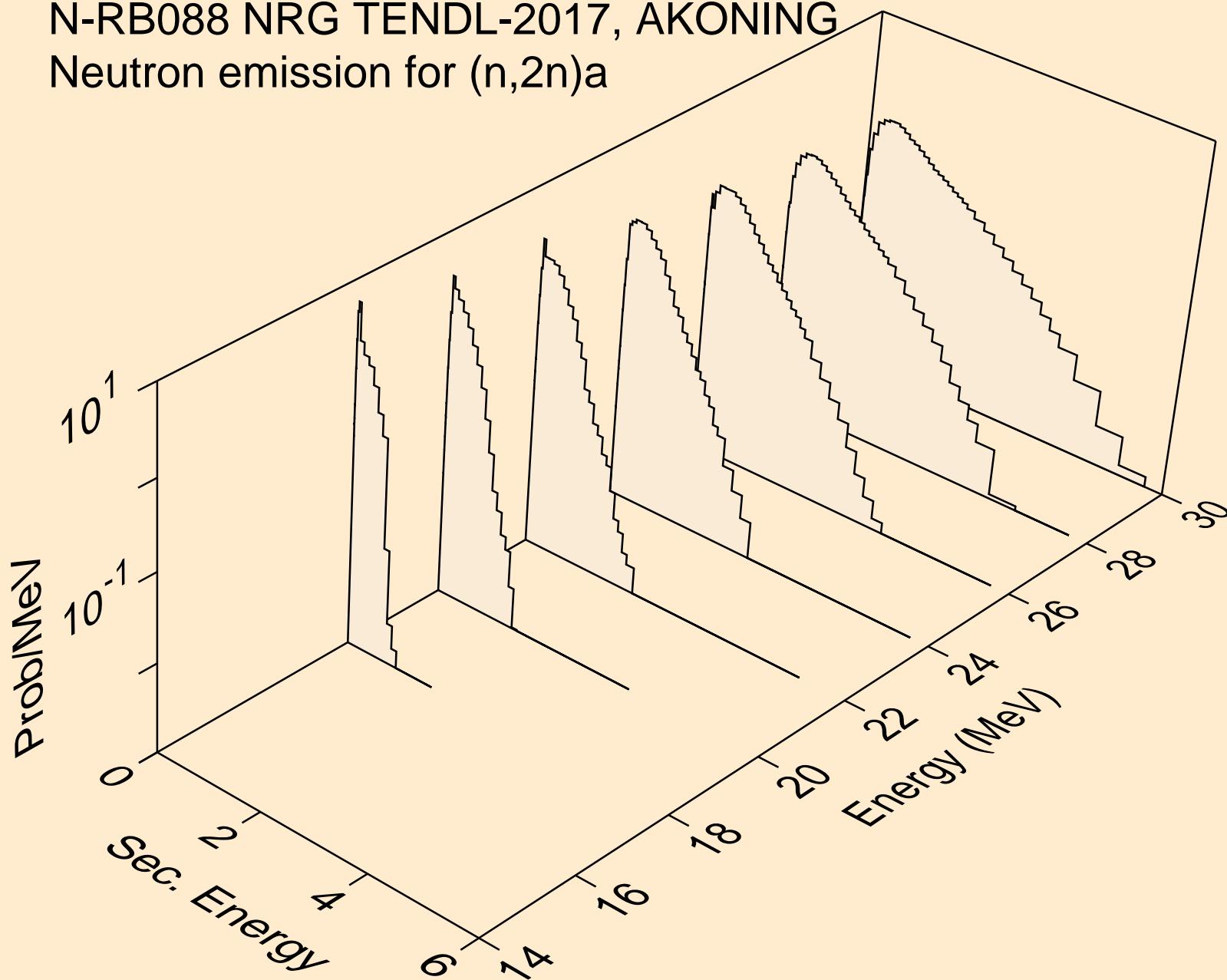
N-RB088 NRG TENDL-2017, AKONING

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



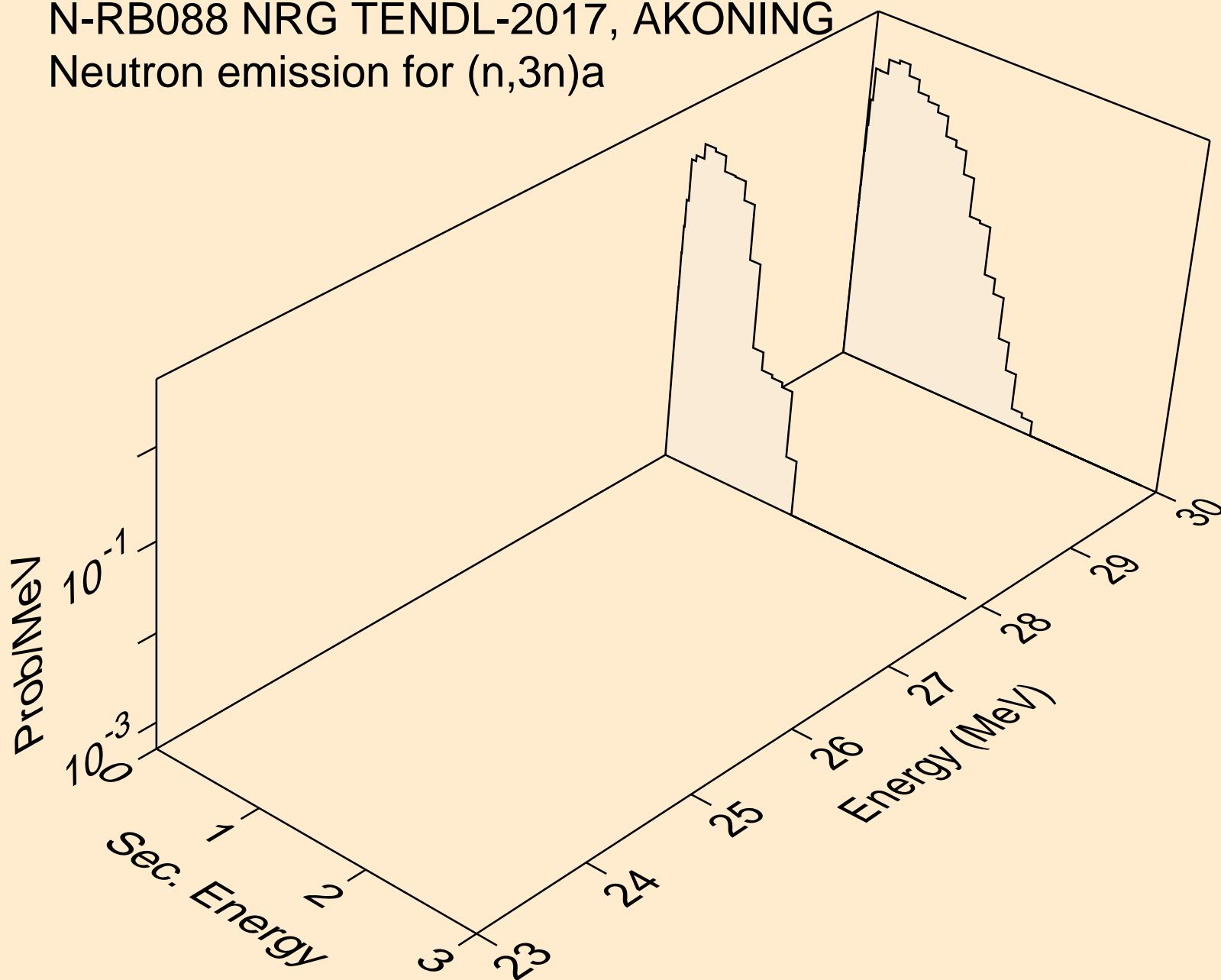
N-RB088 NRG TENDL-2017, AKONING

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



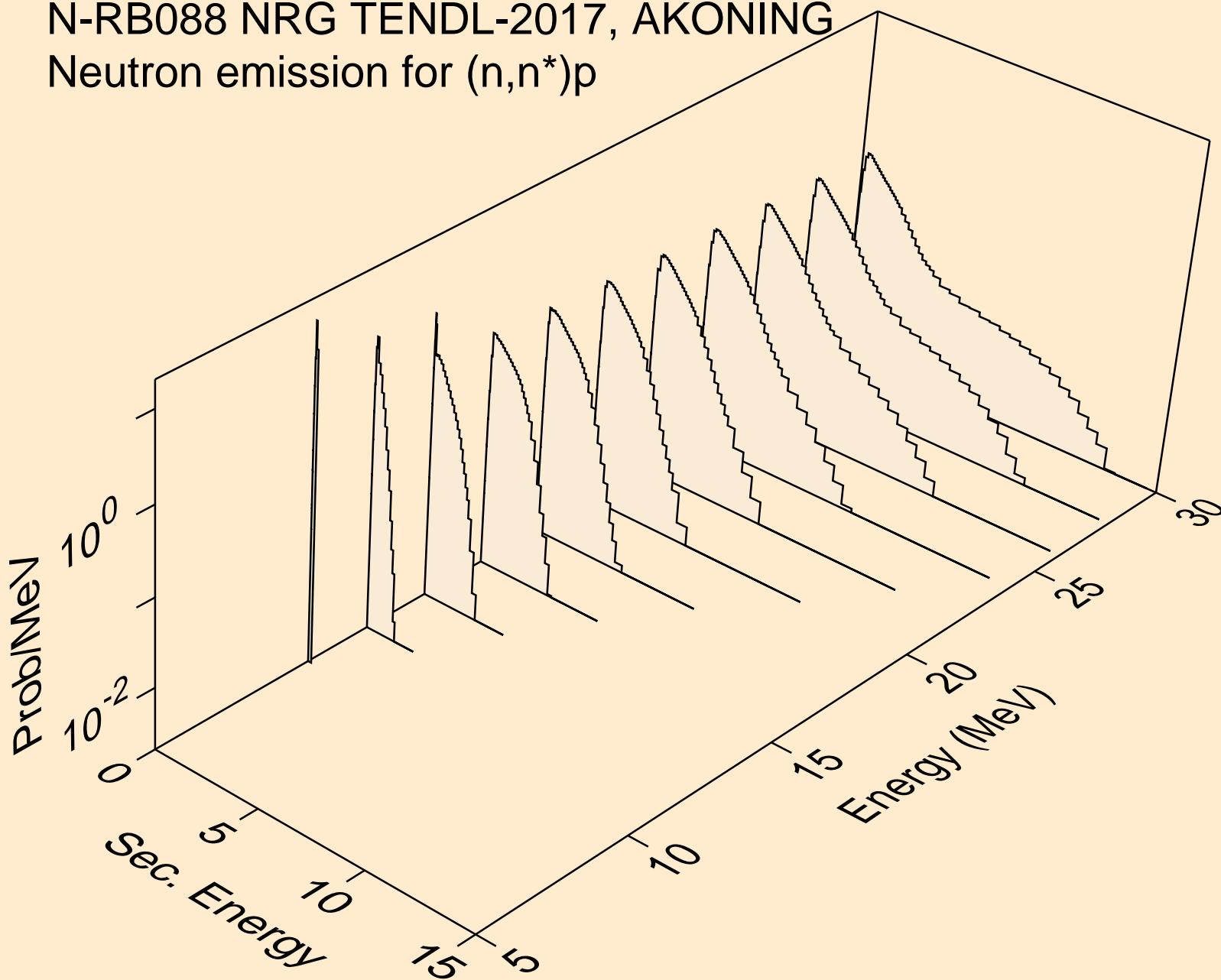
N-RB088 NRG TENDL-2017, AKONING

Neutron emission for (n,3n)a



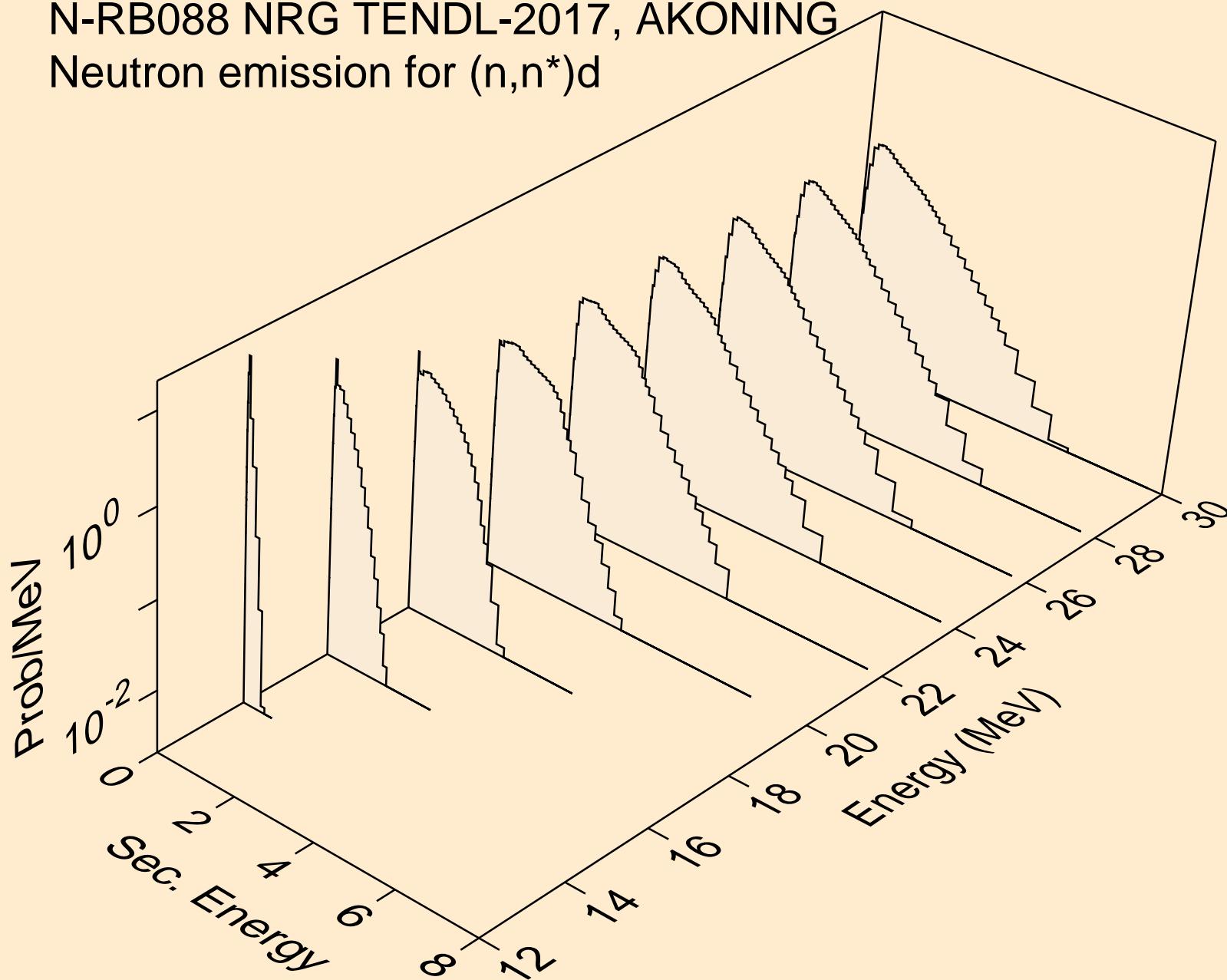
N-RB088 NRG TENDL-2017, AKONING

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

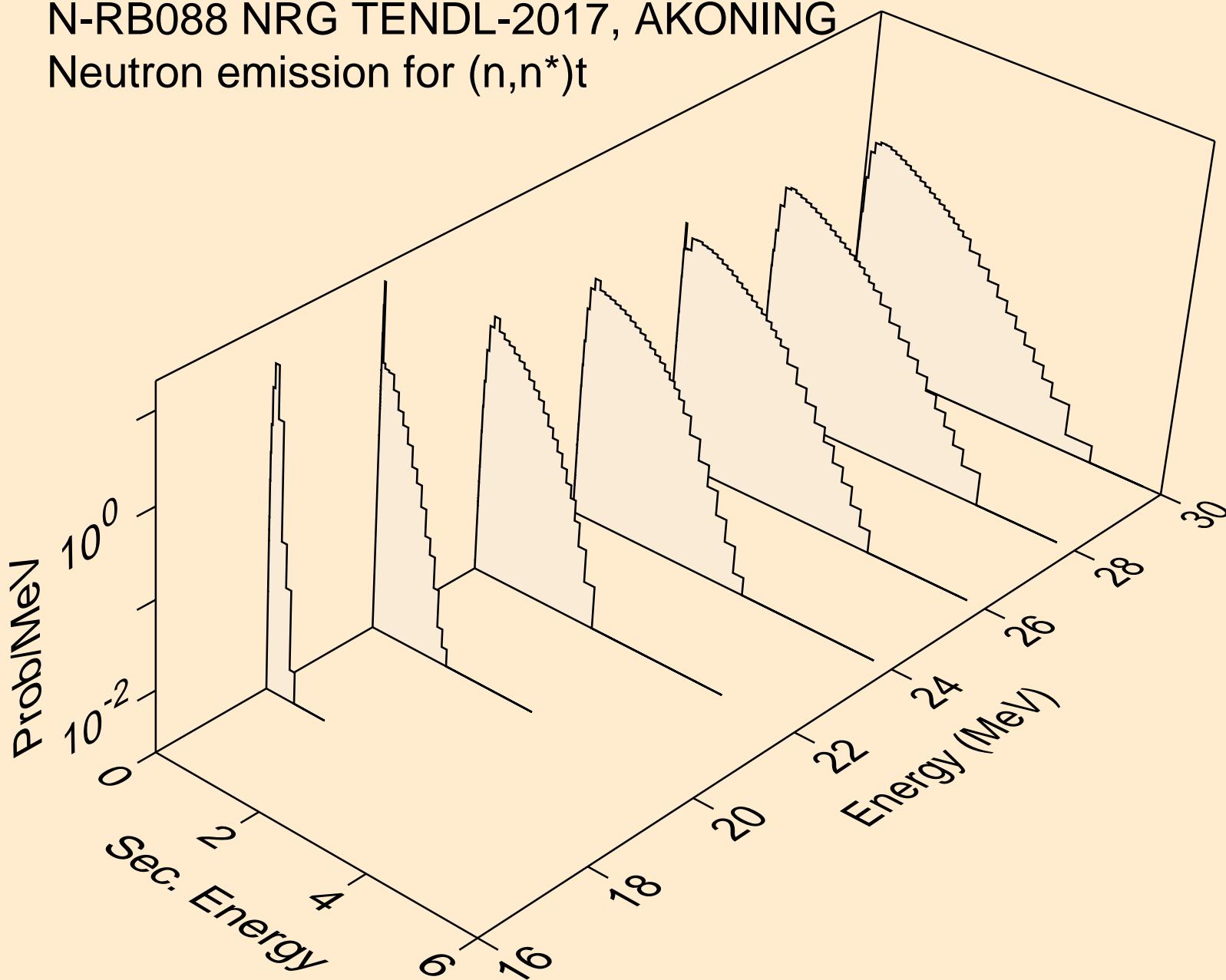


N-RB088 NRG TENDL-2017, AKONING

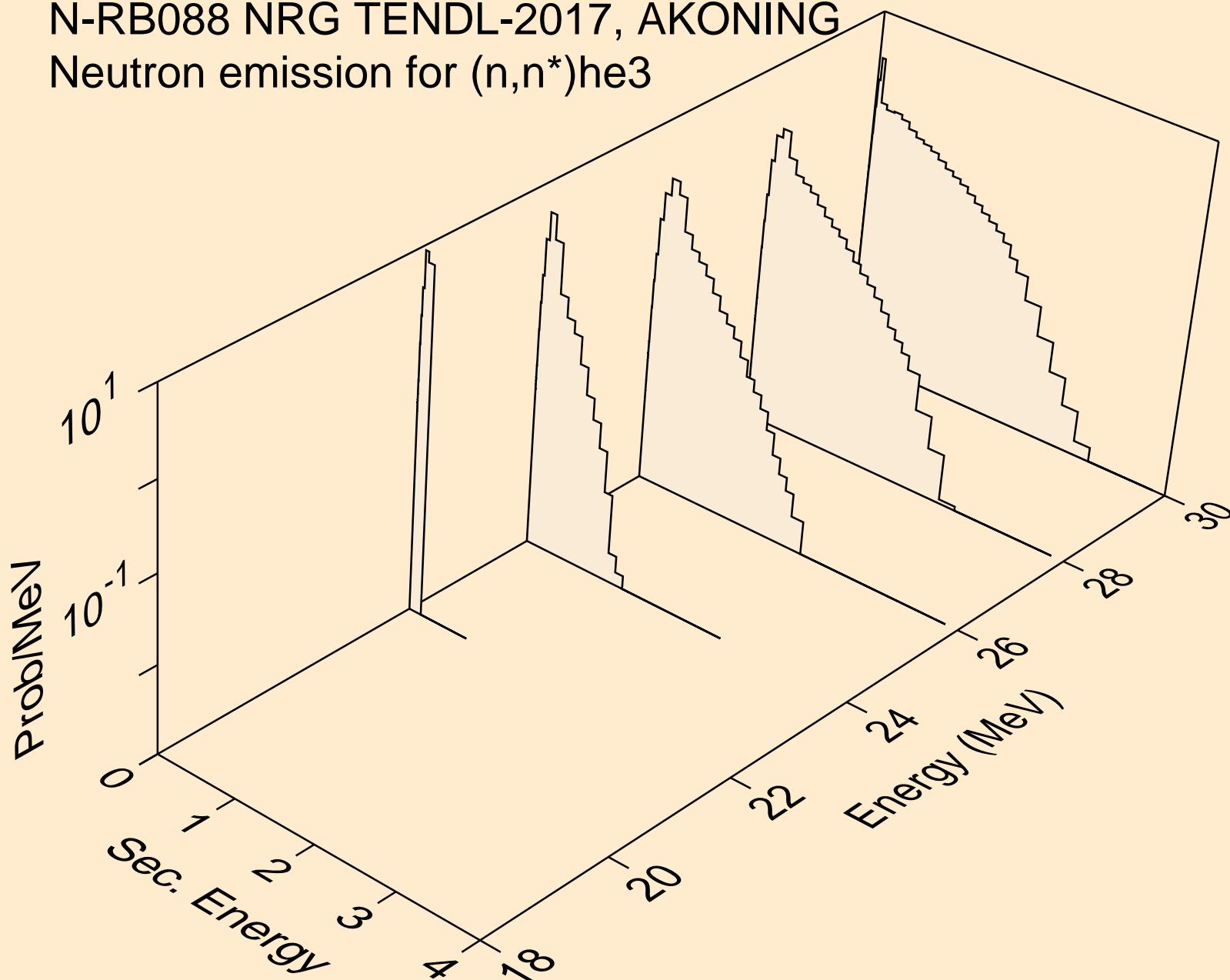
Neutron emission for  $(n,n^*)d$



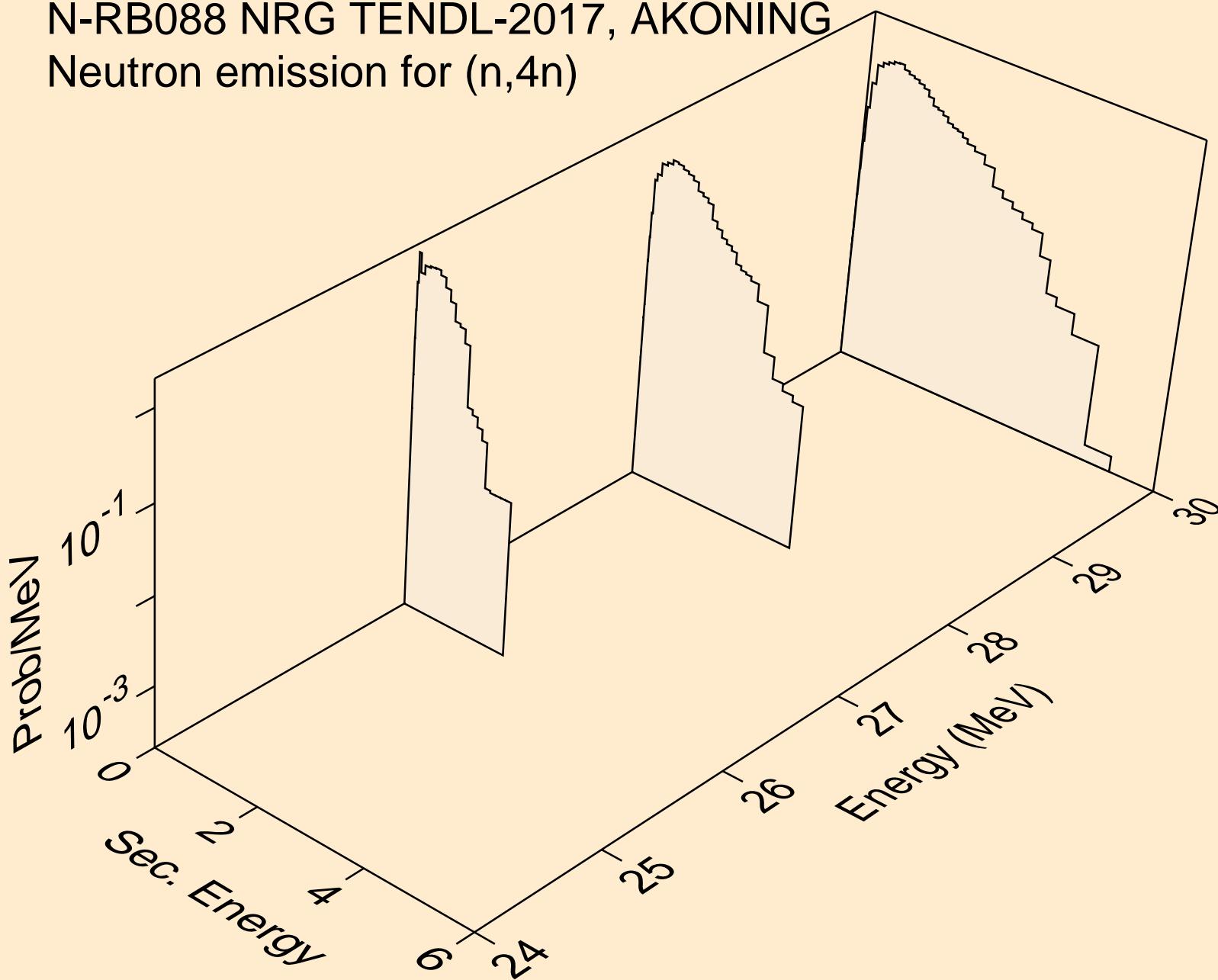
N-RB088 NRG TENDL-2017, AKONING  
Neutron emission for  $(n,n^*)t$



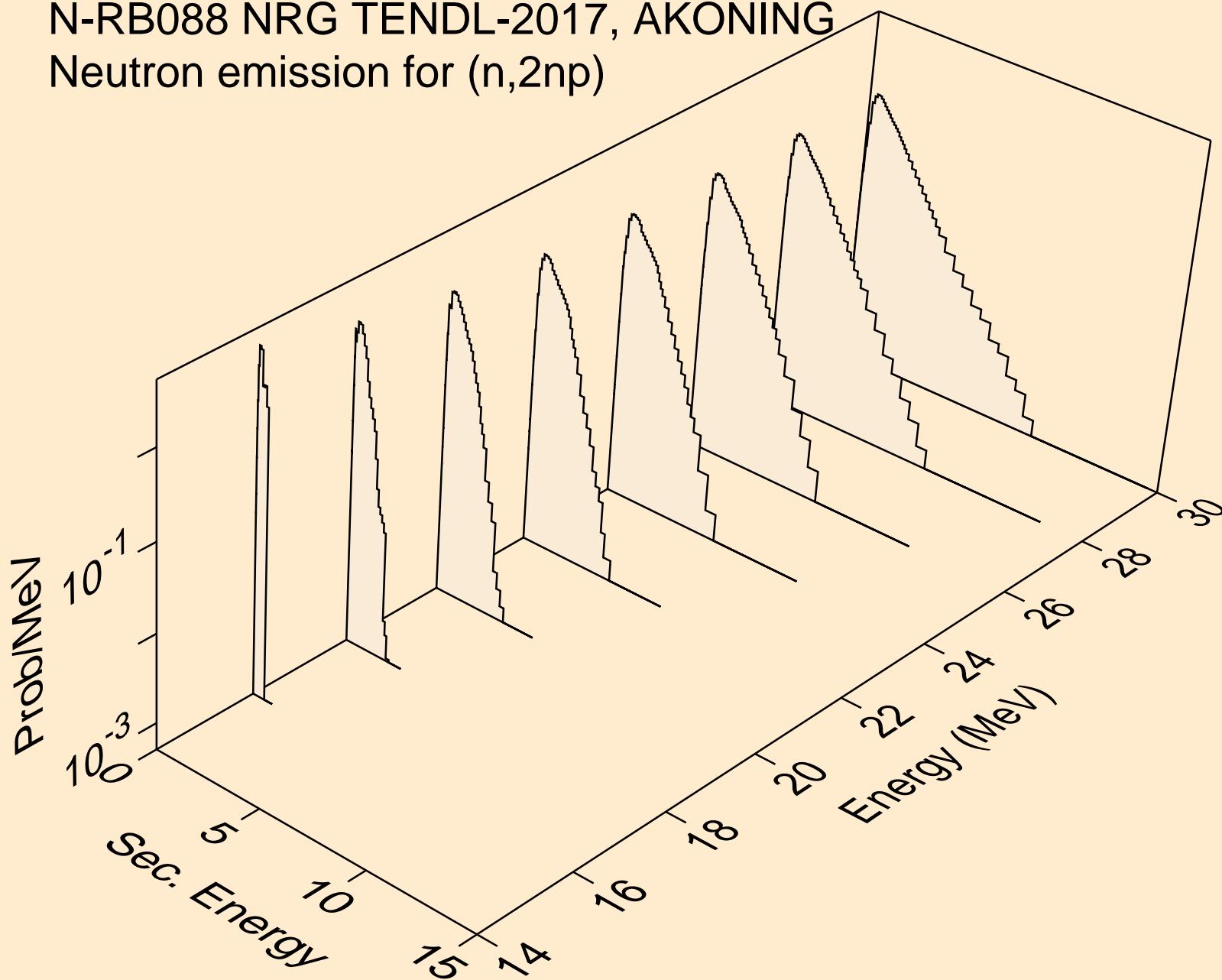
N-RB088 NRG TENDL-2017, AKONING  
Neutron emission for  $(n,n^*)\text{he3}$



N-RB088 NRG TENDL-2017, AKONING  
Neutron emission for (n,4n)

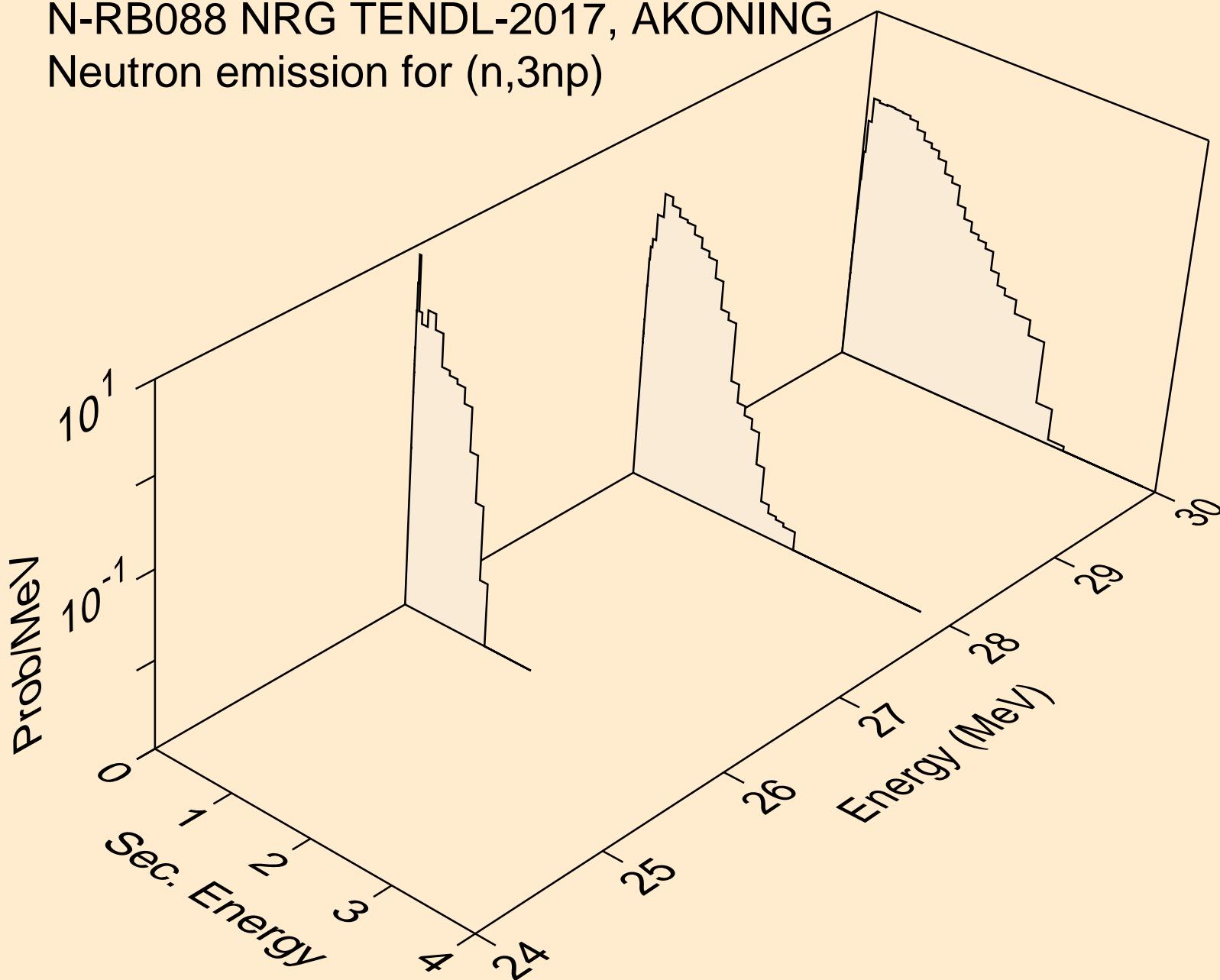


N-RB088 NRG TENDL-2017, AKONING  
Neutron emission for (n,2np)

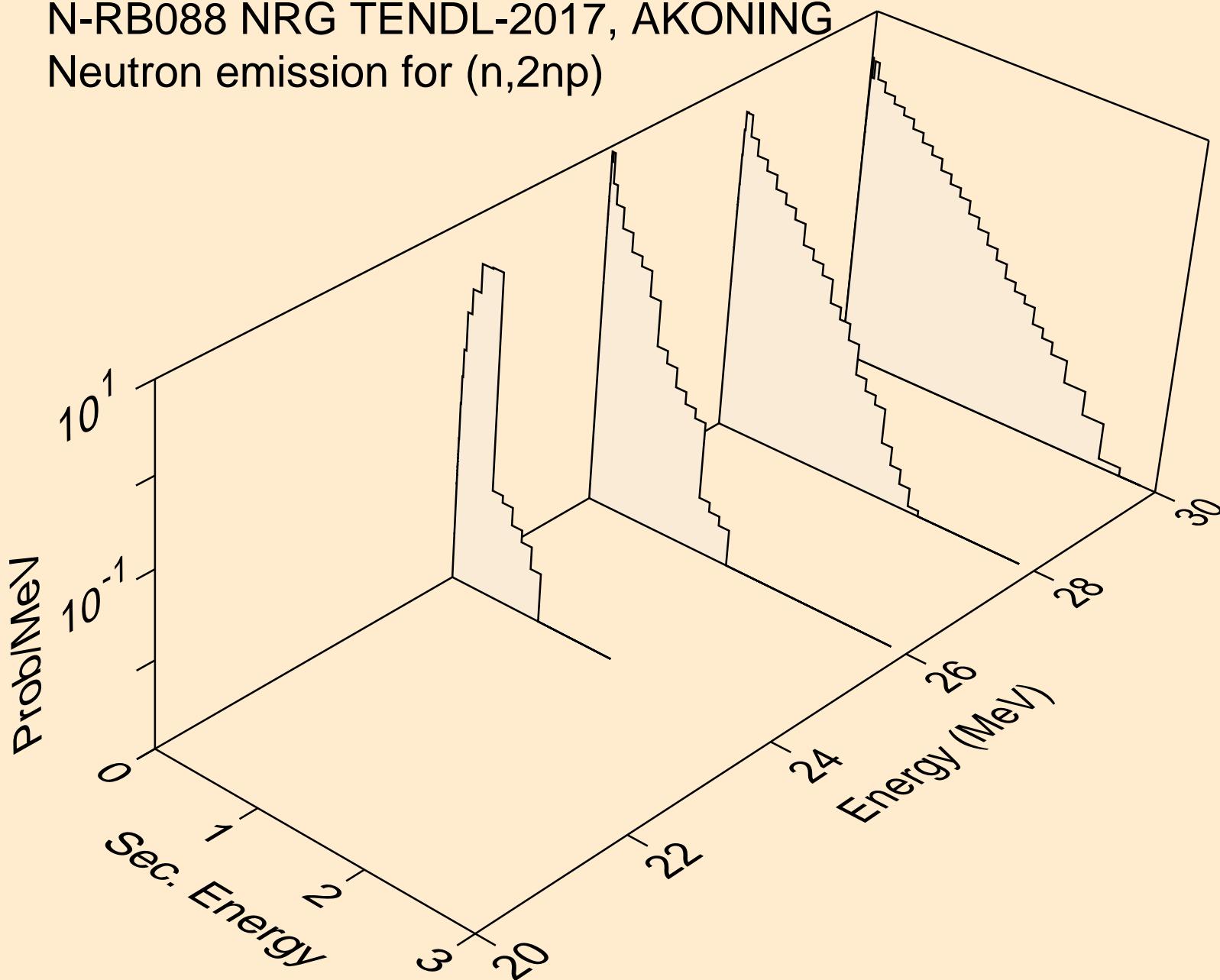


N-RB088 NRG TENDL-2017, AKONING

Neutron emission for (n,3np)

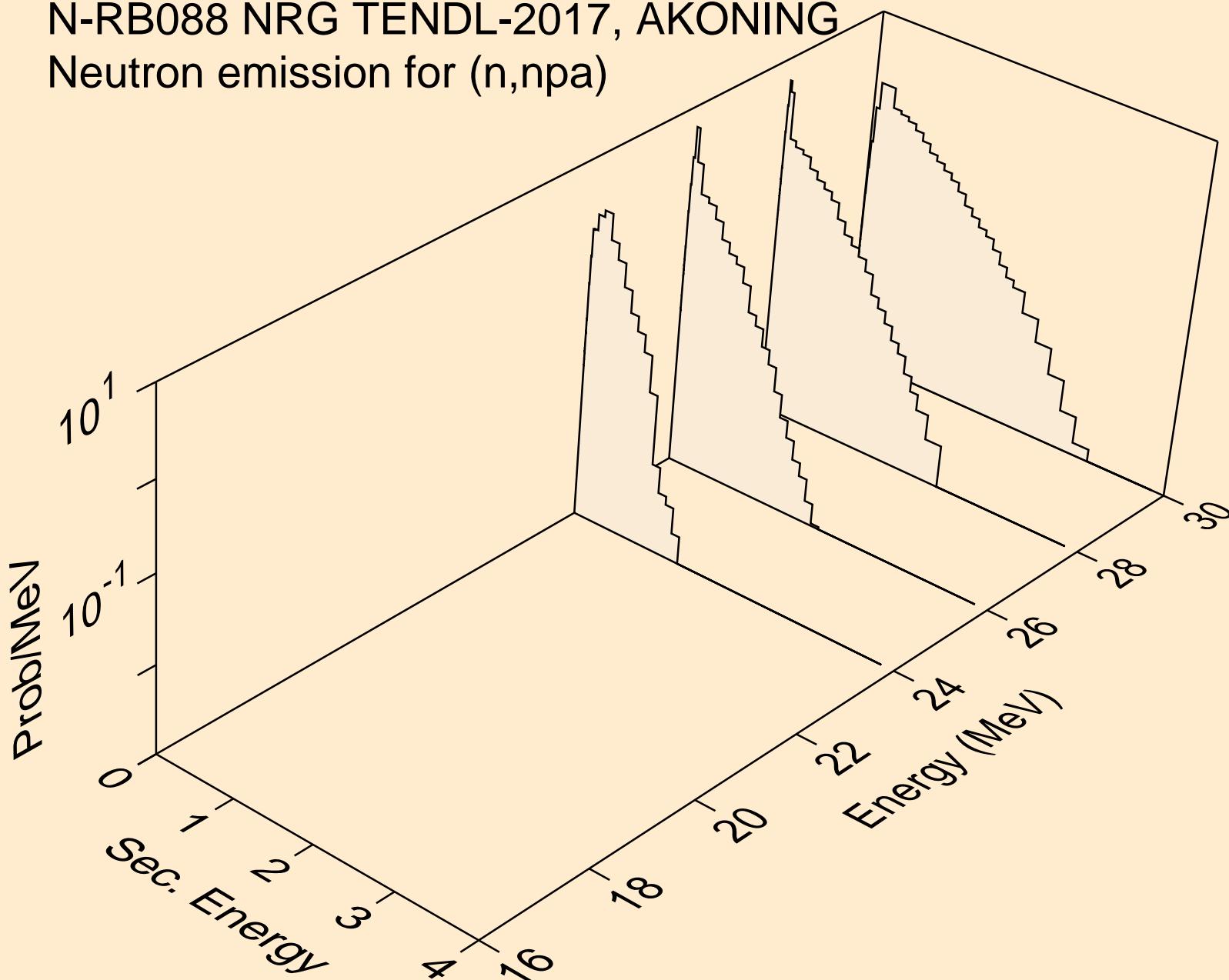


N-RB088 NRG TENDL-2017, AKONING  
Neutron emission for (n,2np)

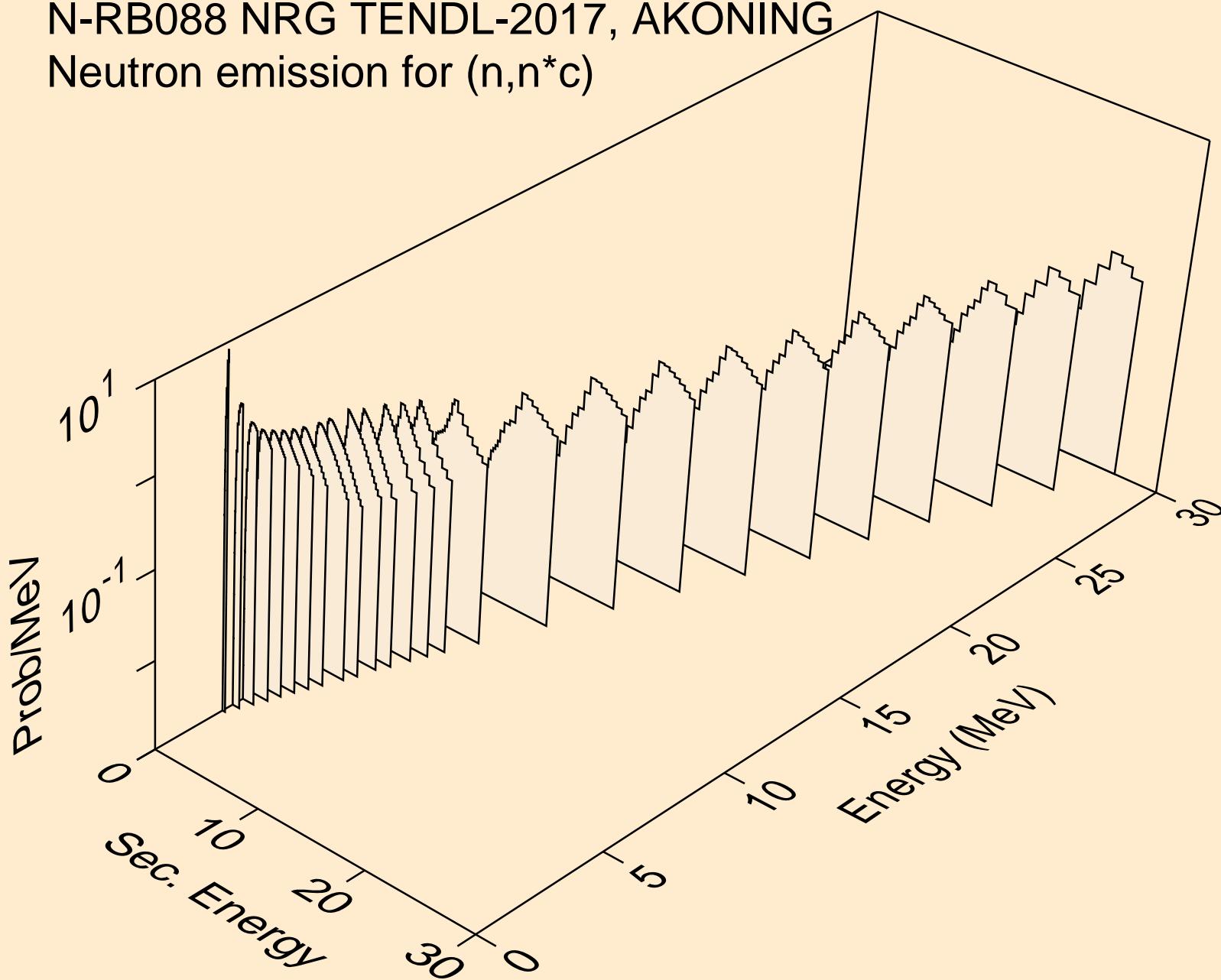


# N-RB088 NRG TENDL-2017, AKONING

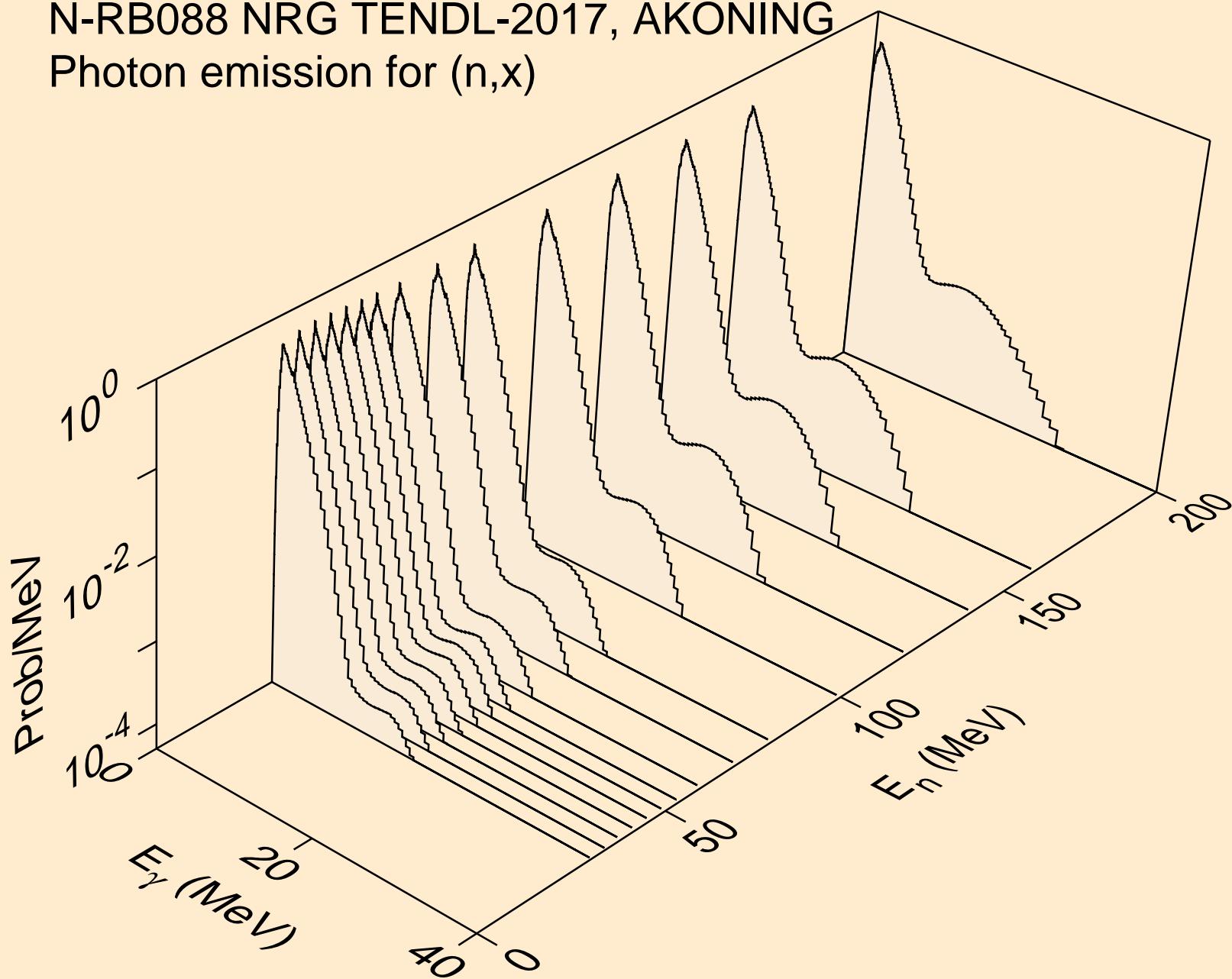
Neutron emission for (n,npa)



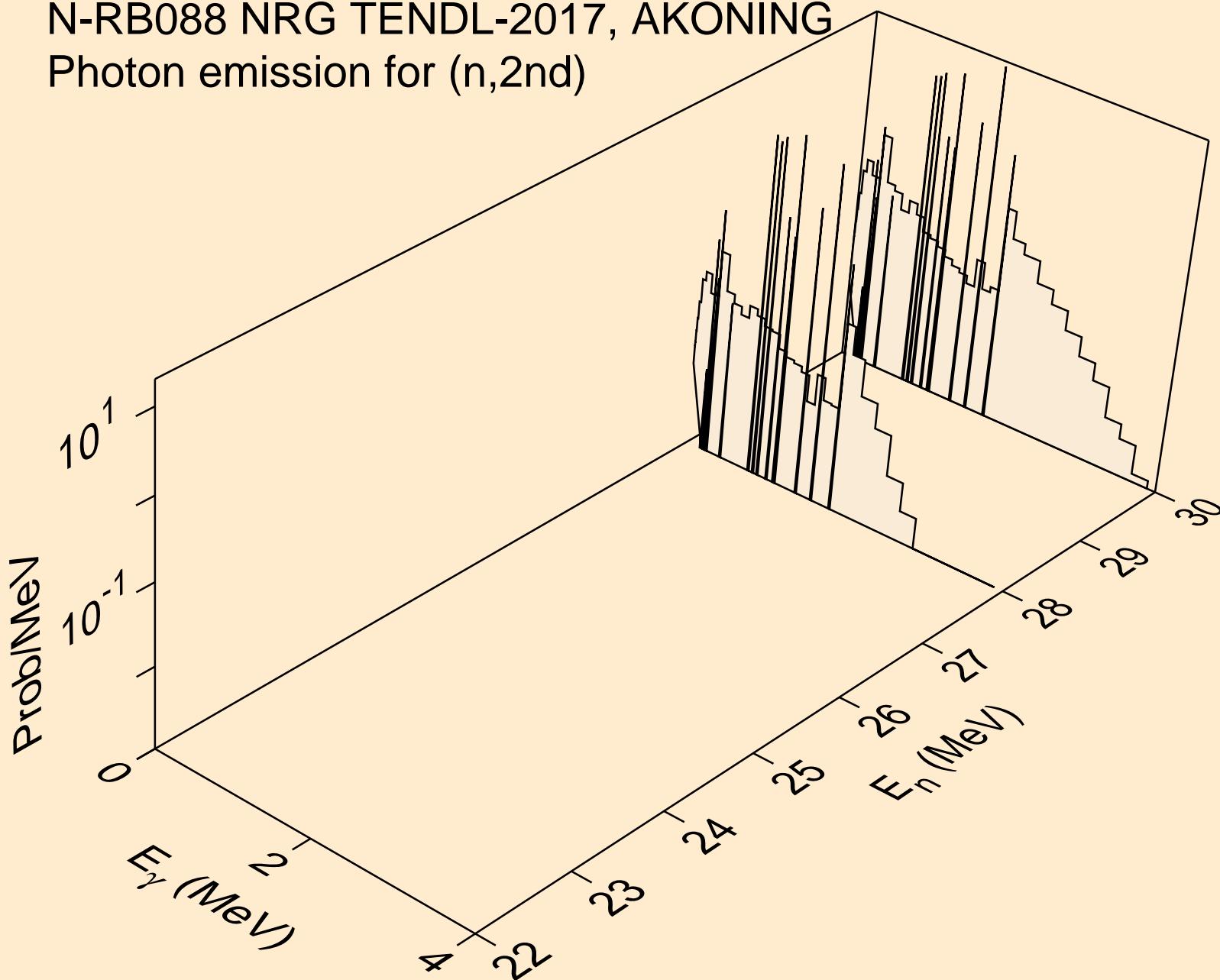
N-RB088 NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*c)



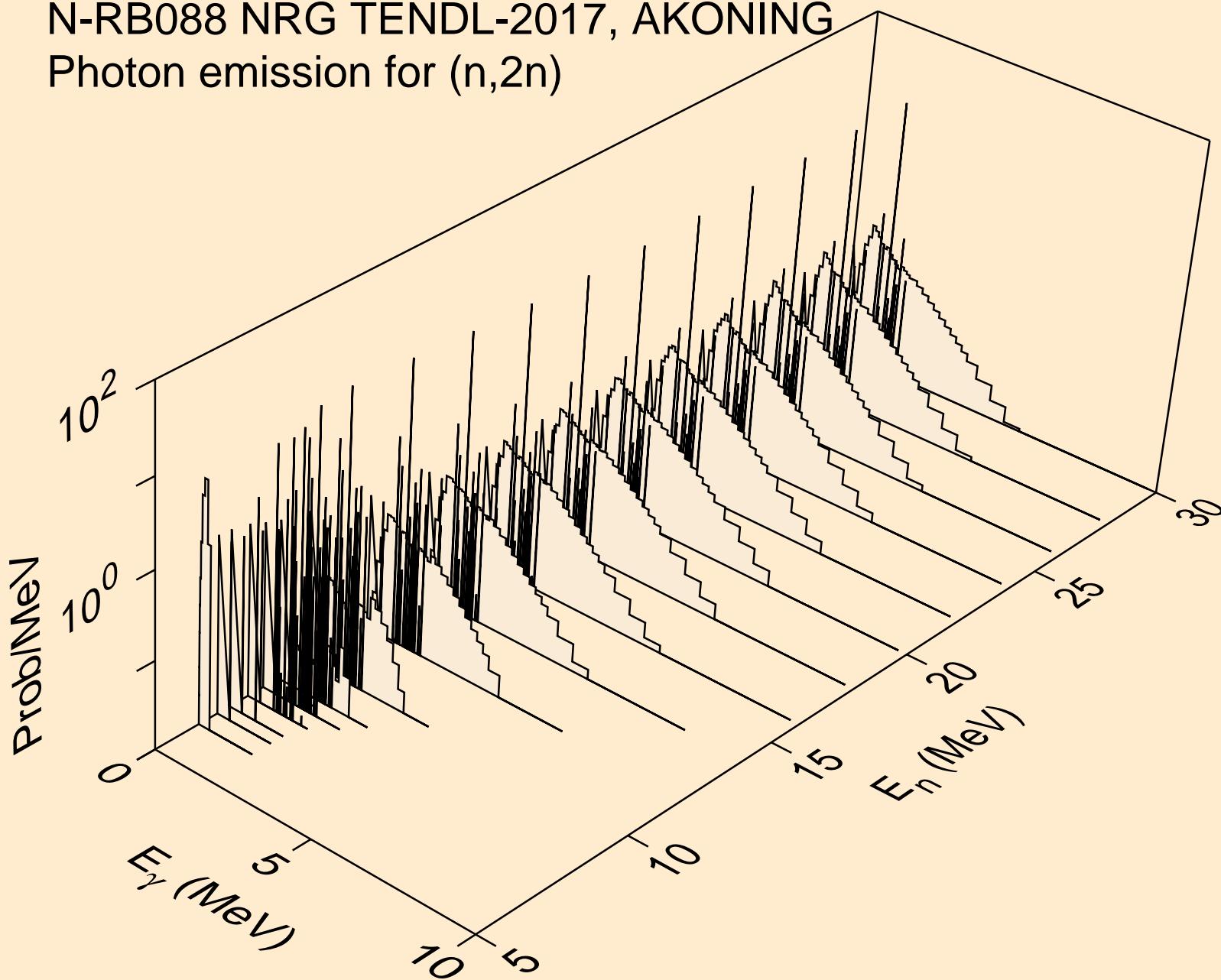
N-RB088 NRG TENDL-2017, AKONING  
Photon emission for (n,x)



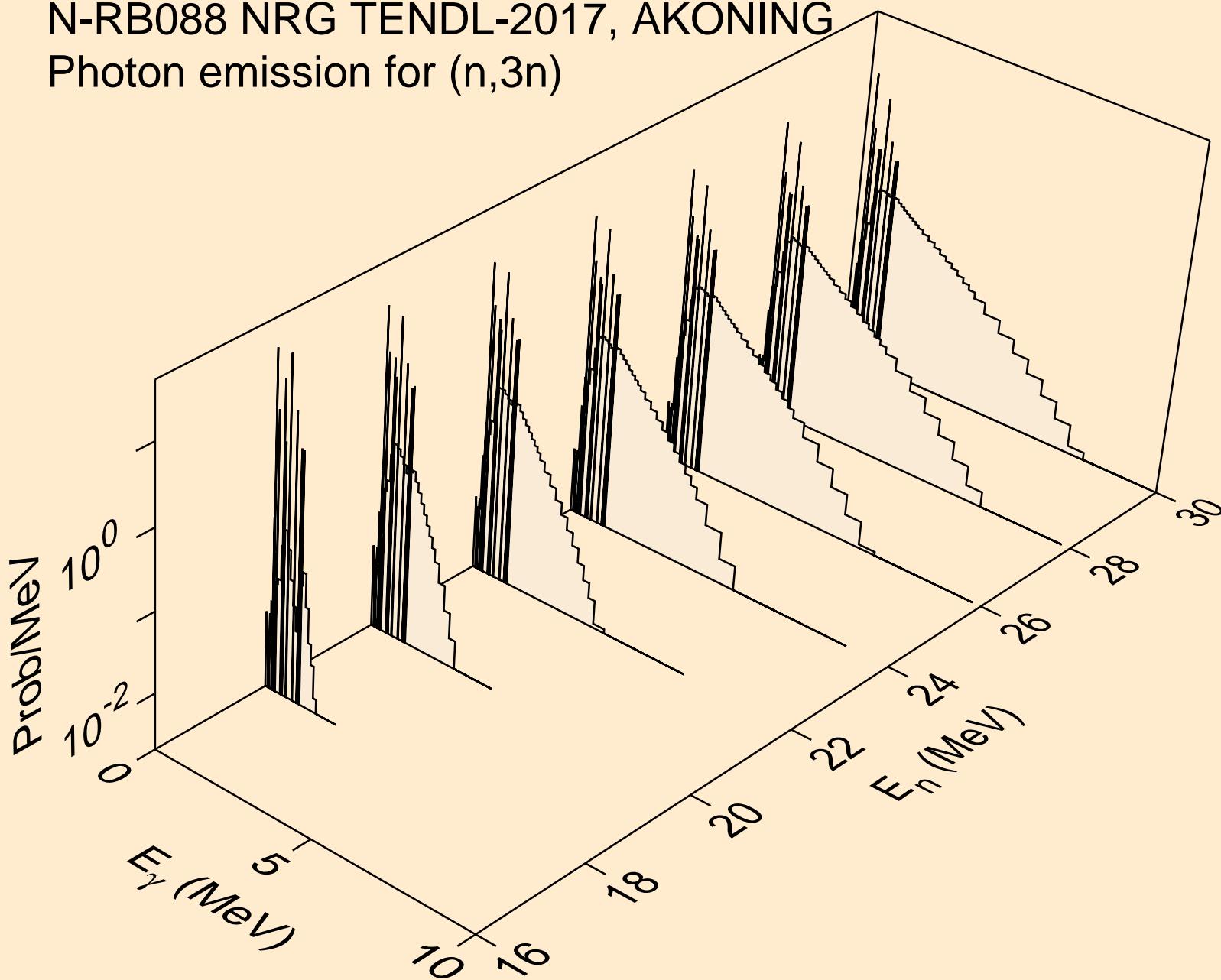
N-RB088 NRG TENDL-2017, AKONING  
Photon emission for (n,2nd)



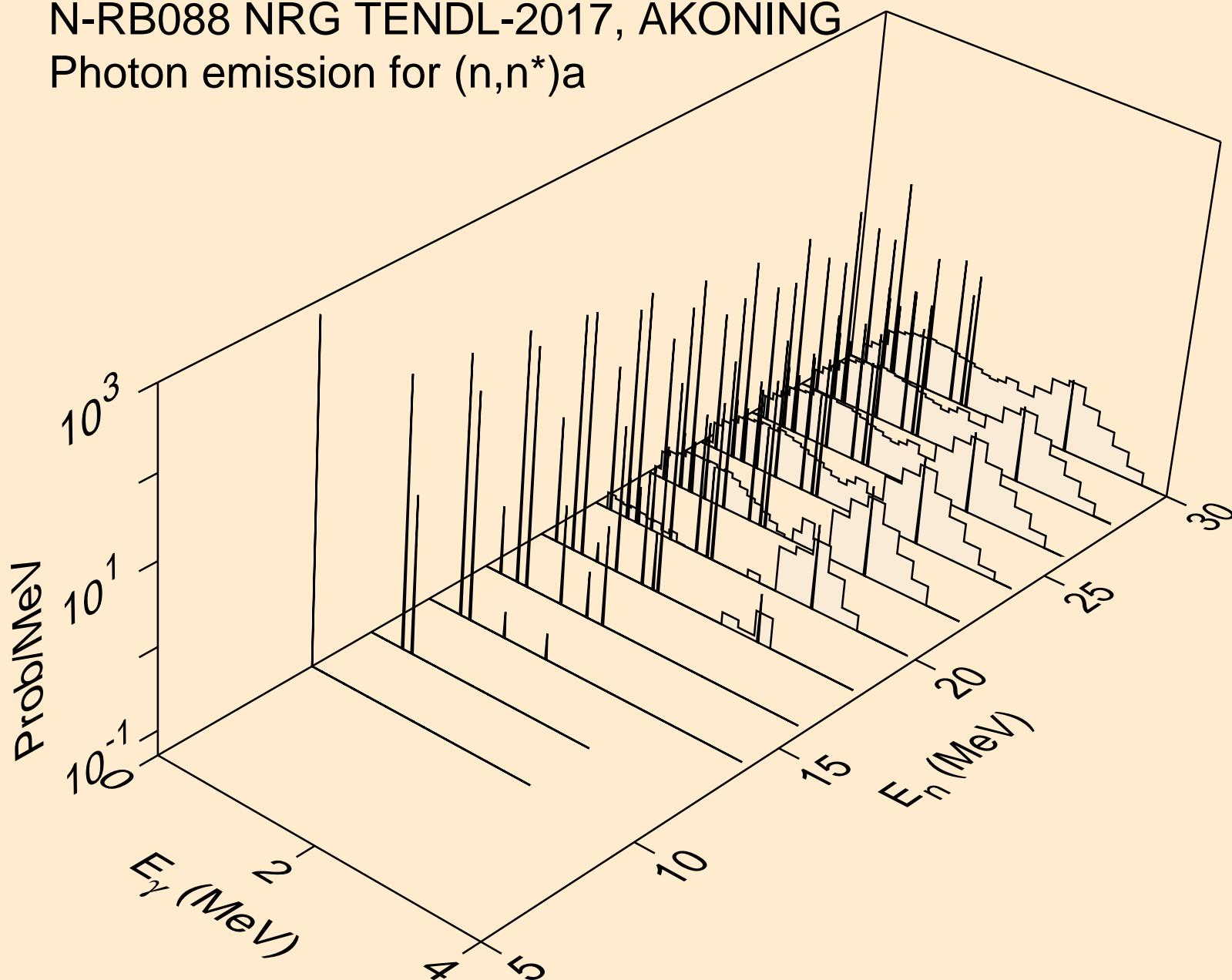
N-RB088 NRG TENDL-2017, AKONING  
Photon emission for (n,2n)



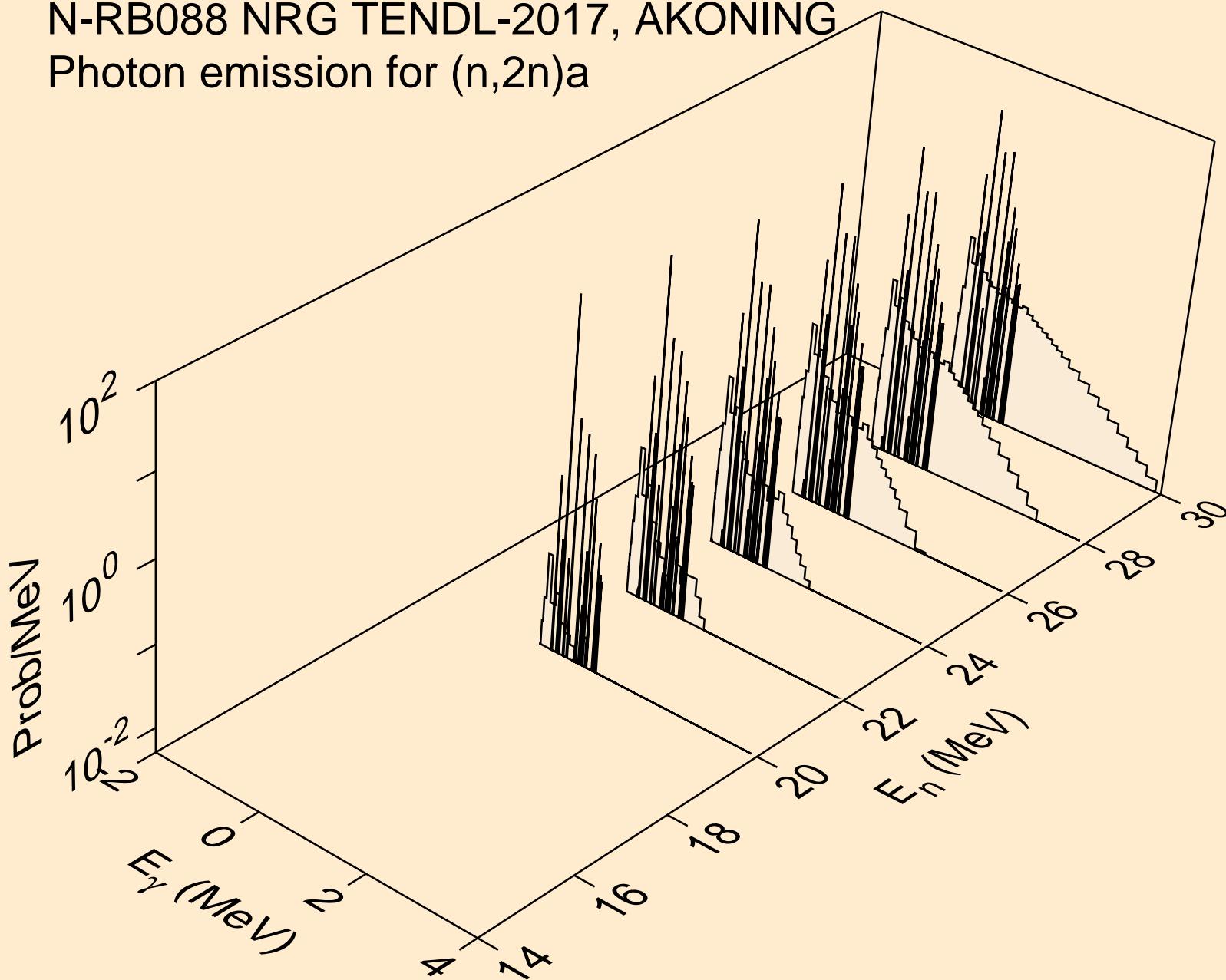
N-RB088 NRG TENDL-2017, AKONING  
Photon emission for (n,3n)



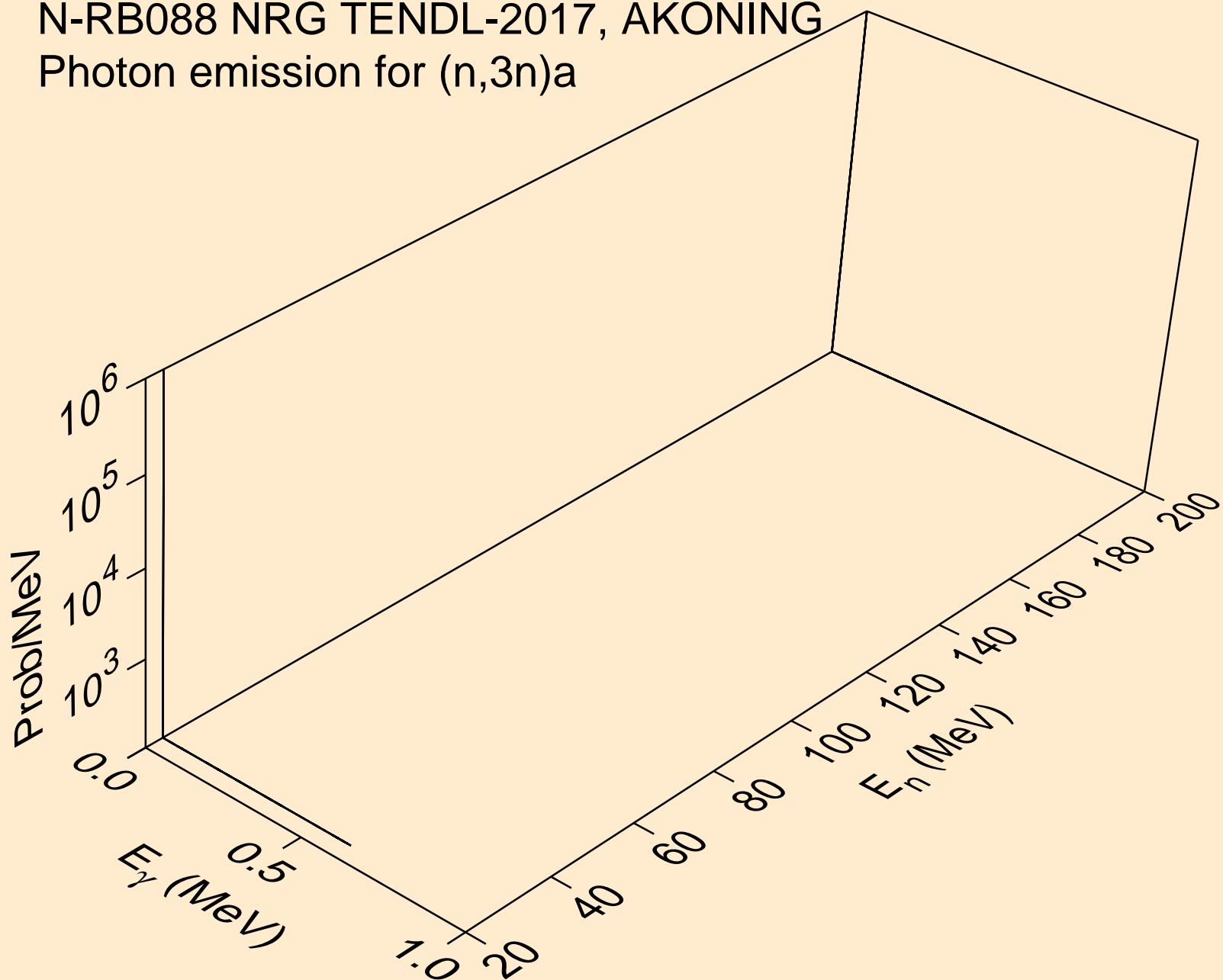
N-RB088 NRG TENDL-2017, AKONING  
Photon emission for  $(n,n^*)a$



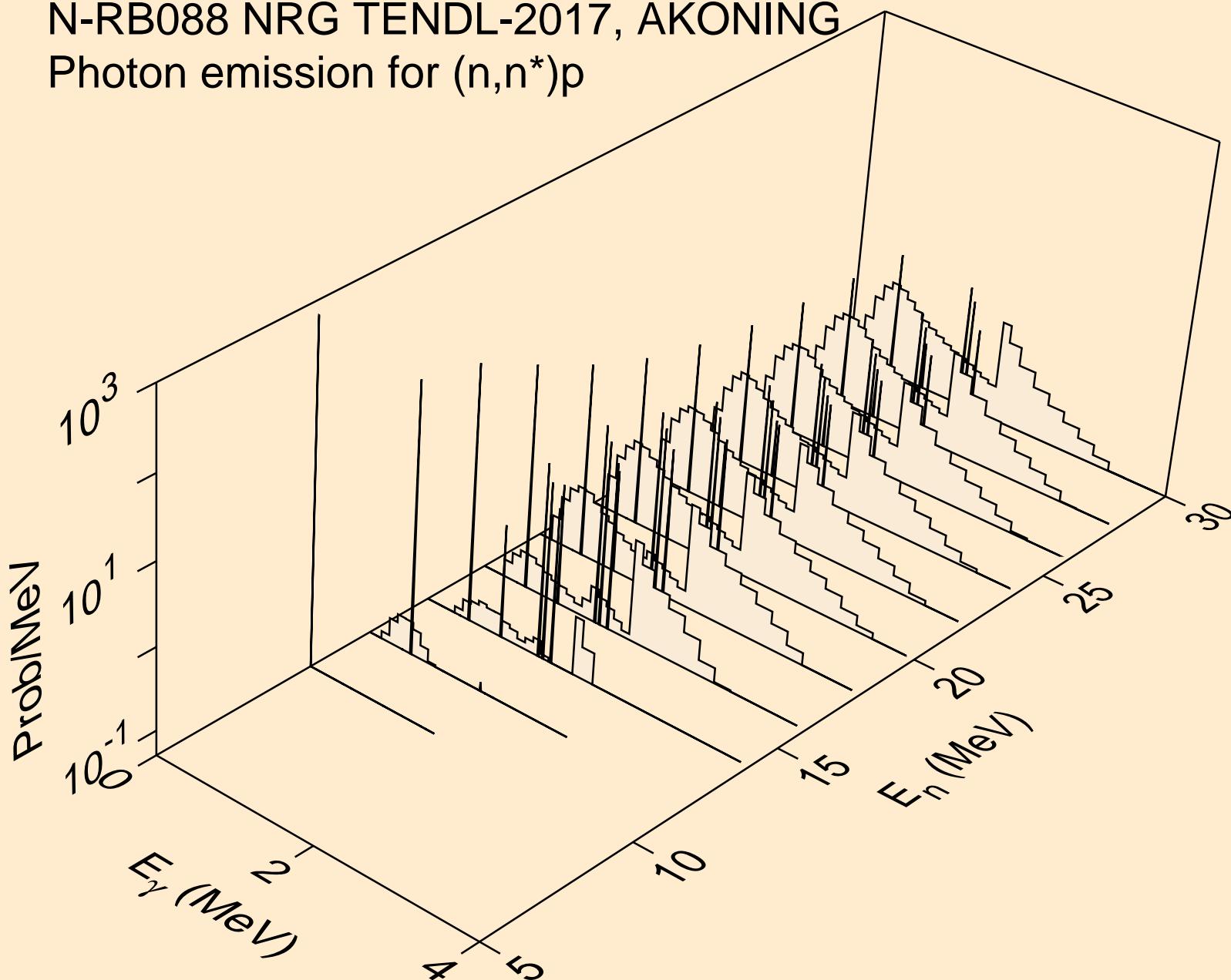
N-RB088 NRG TENDL-2017, AKONING  
Photon emission for (n,2n)a



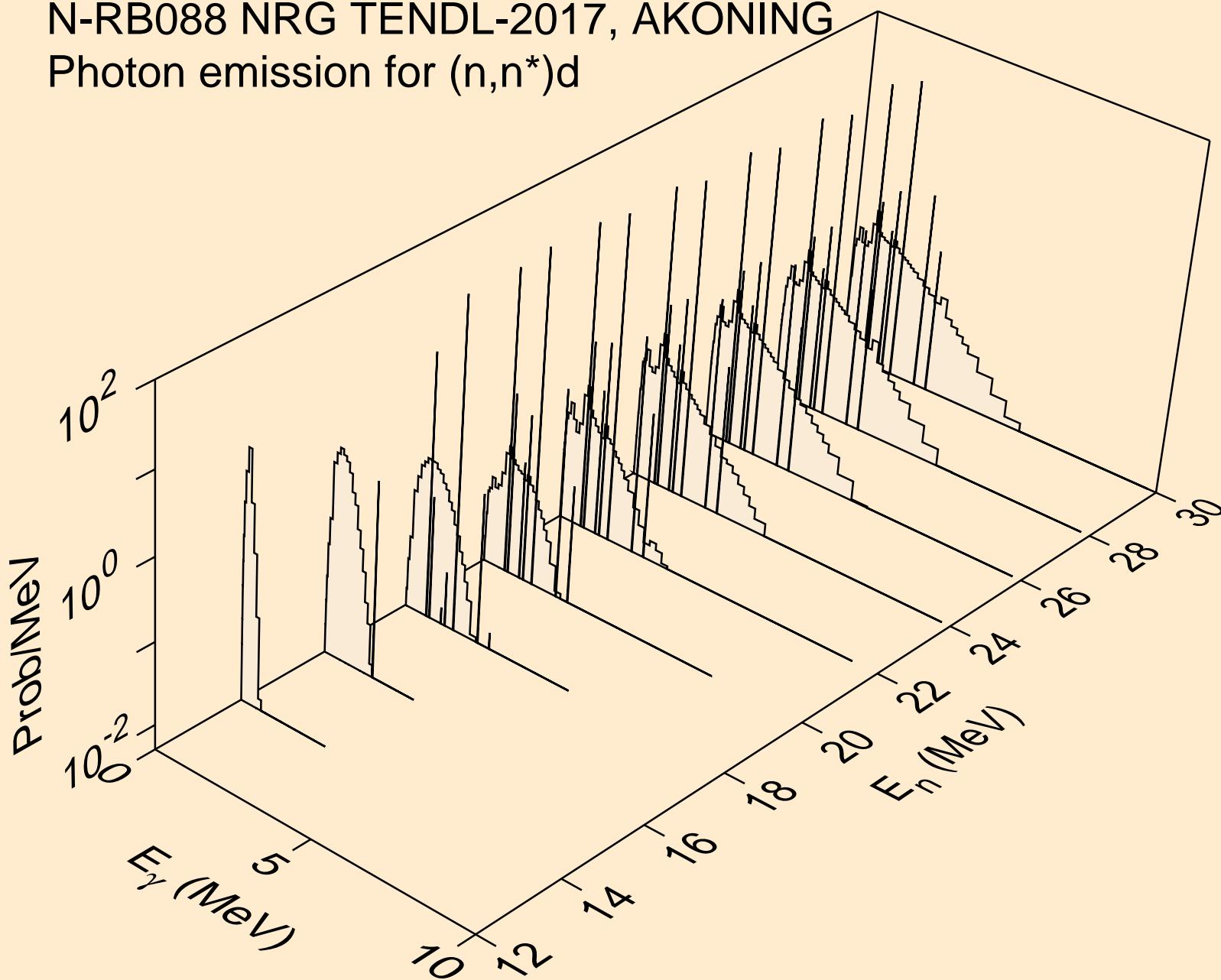
N-RB088 NRG TENDL-2017, AKONING  
Photon emission for (n,3n)a



N-RB088 NRG TENDL-2017, AKONING  
Photon emission for  $(n,n^*)p$

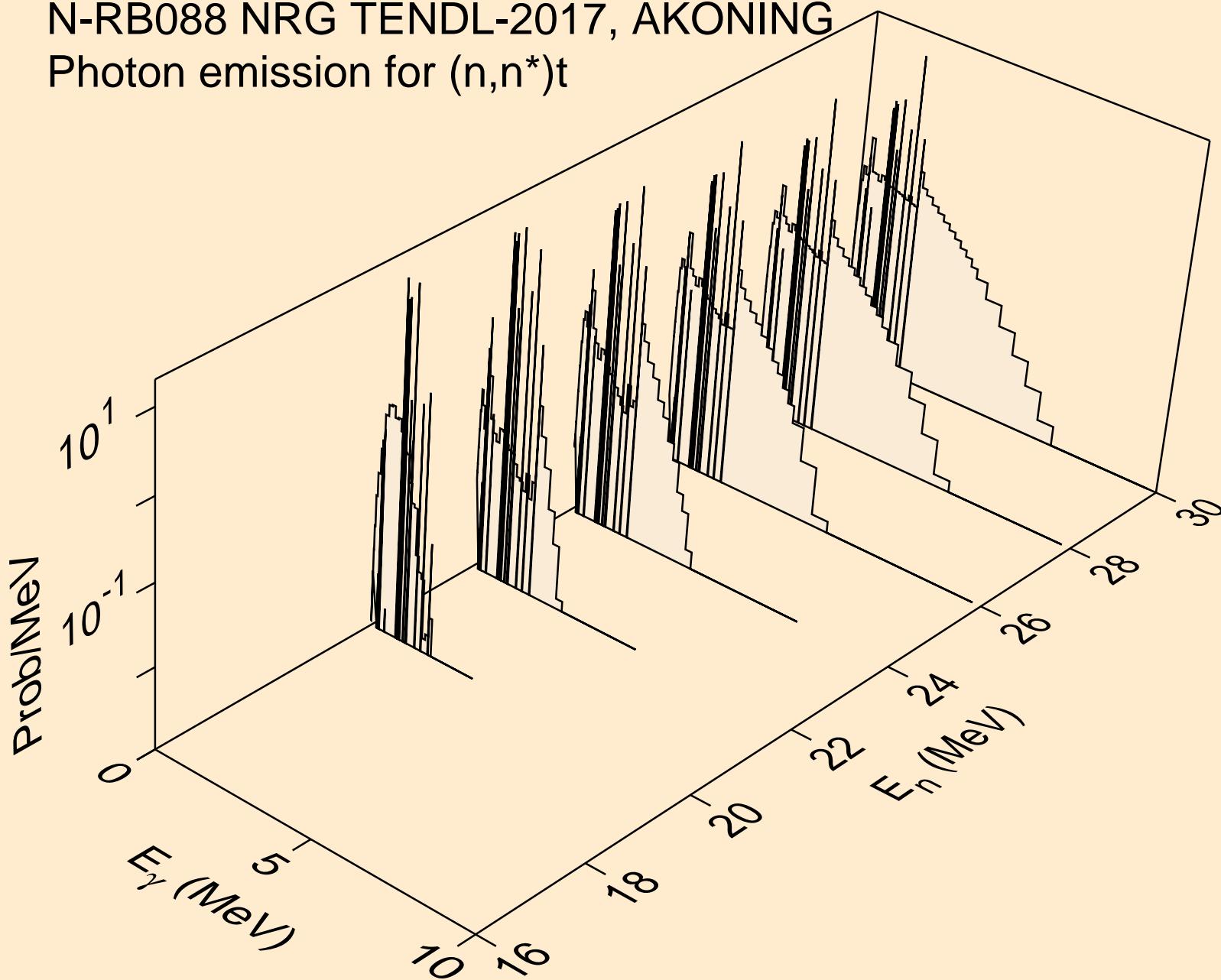


N-RB088 NRG TENDL-2017, AKONING  
Photon emission for  $(n,n^*)d$

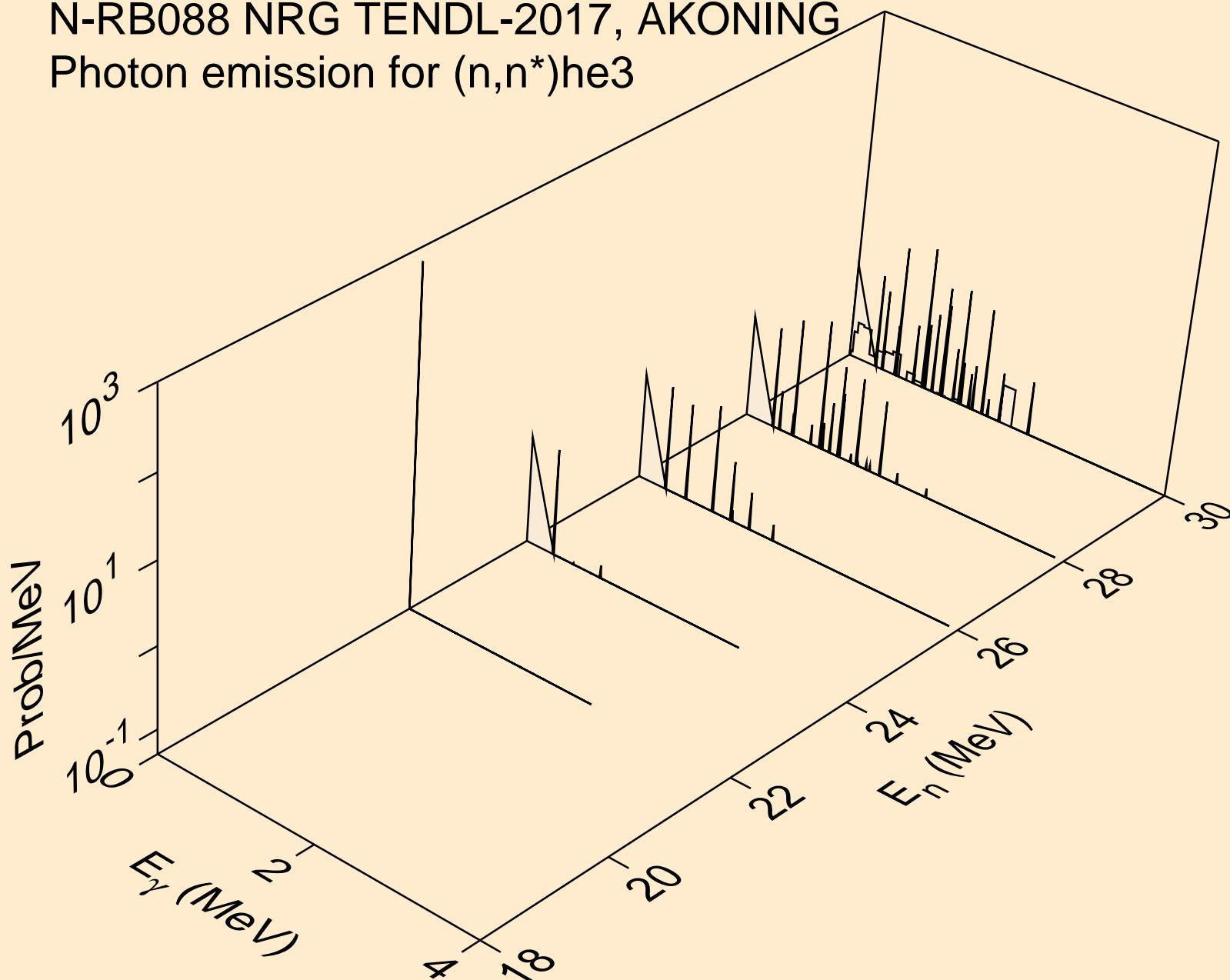


N-RB088 NRG TENDL-2017, AKONING

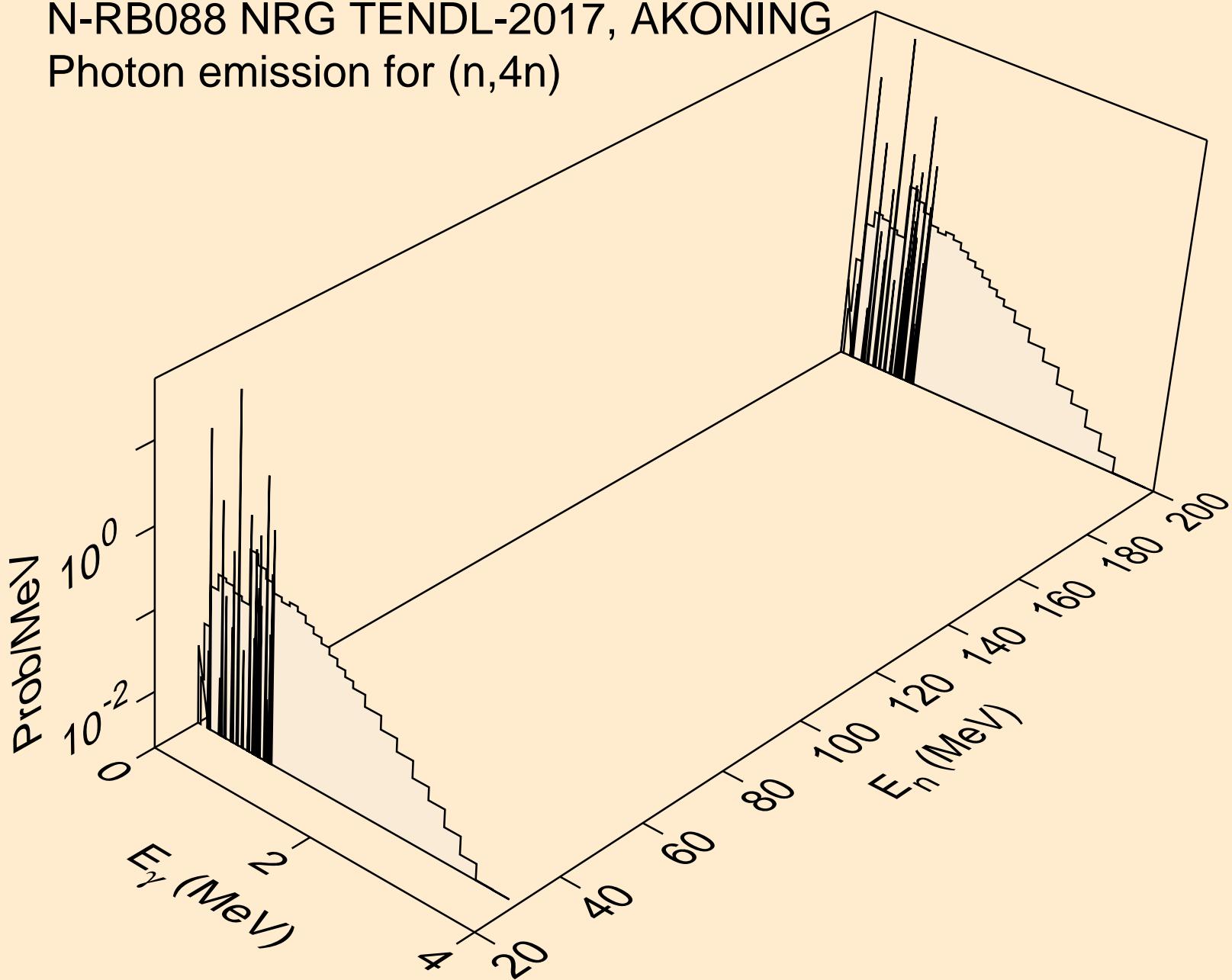
Photon emission for  $(n,n^*)t$



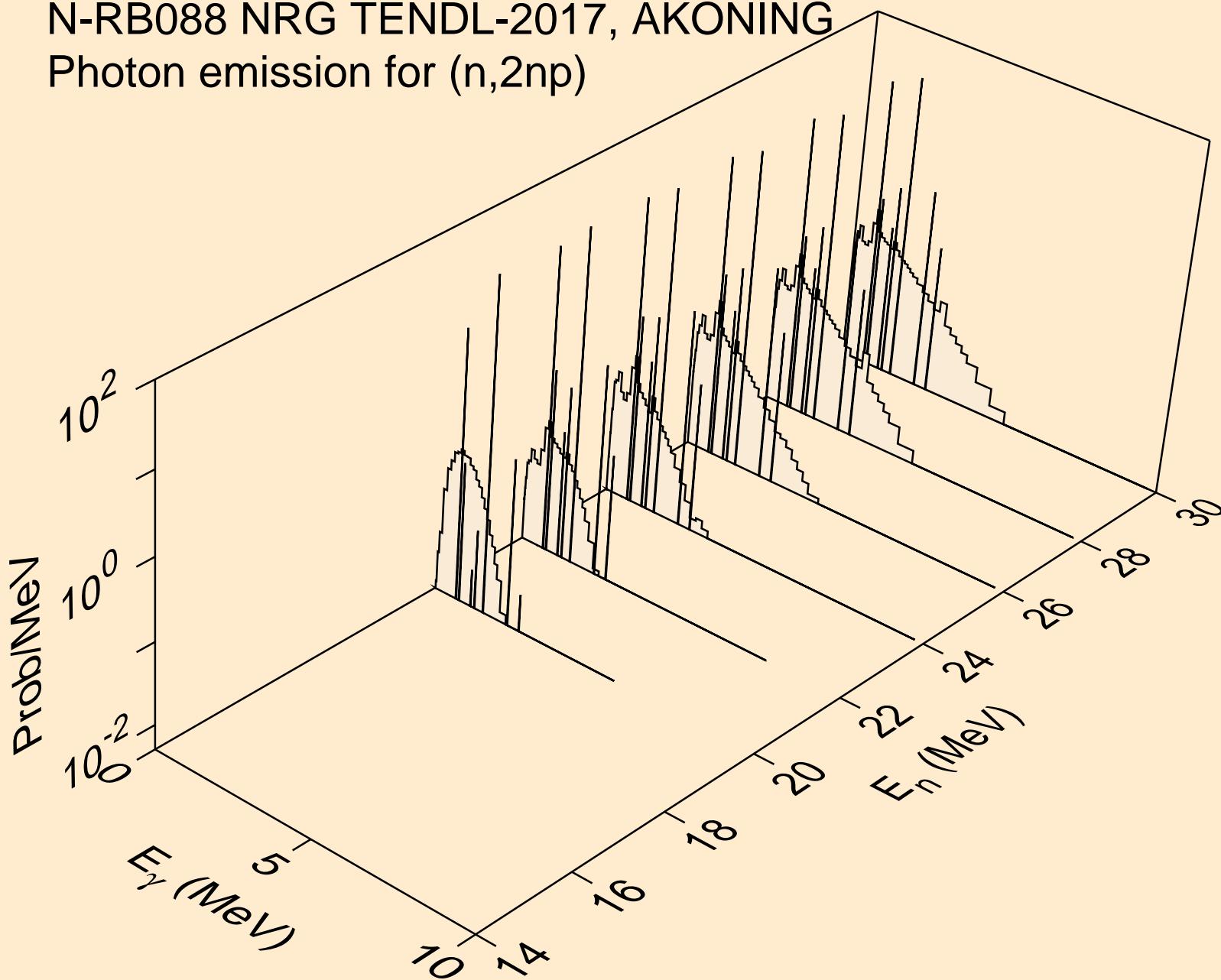
N-RB088 NRG TENDL-2017, AKONING  
Photon emission for  $(n,n^*)\text{he3}$



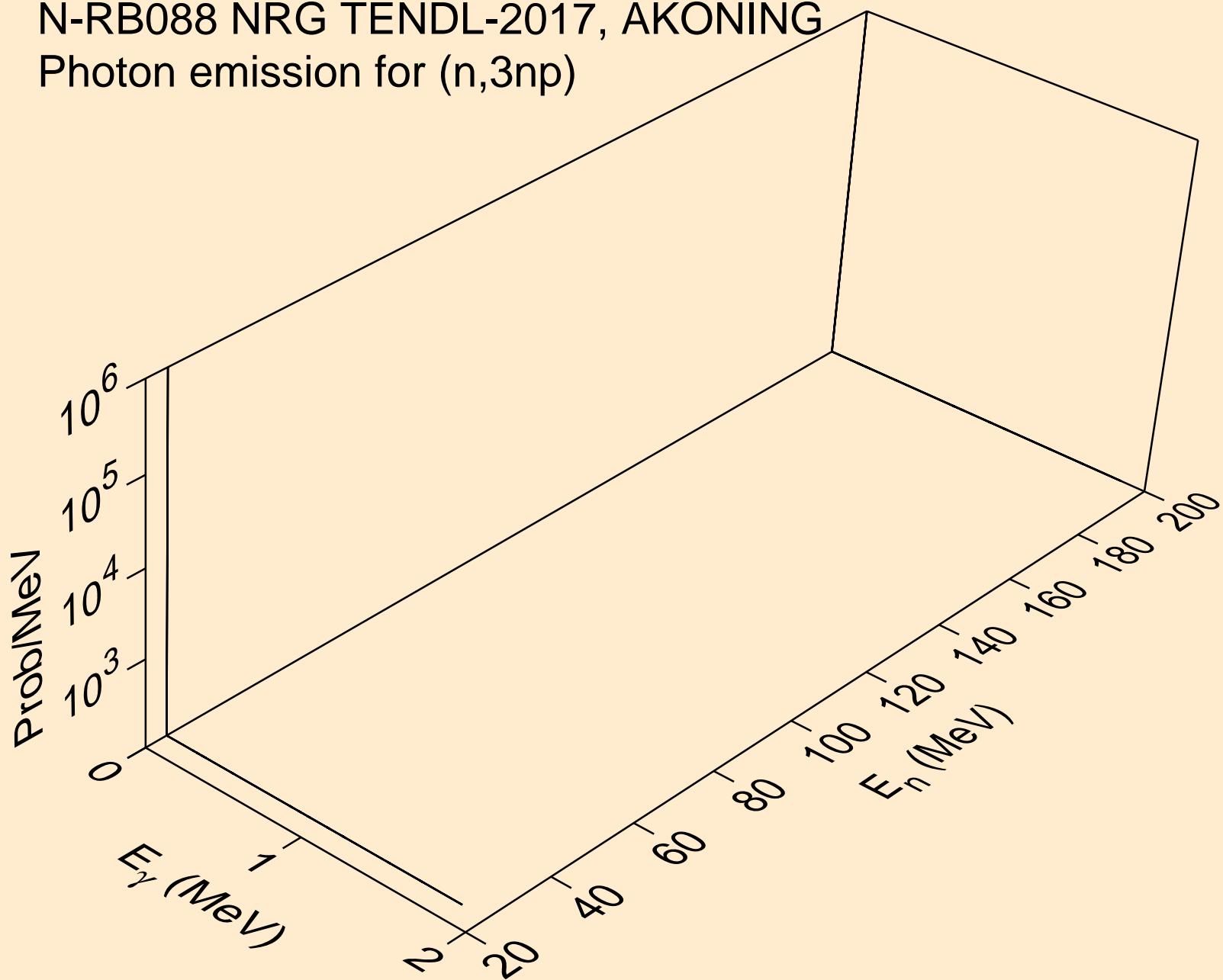
N-RB088 NRG TENDL-2017, AKONING  
Photon emission for (n,4n)



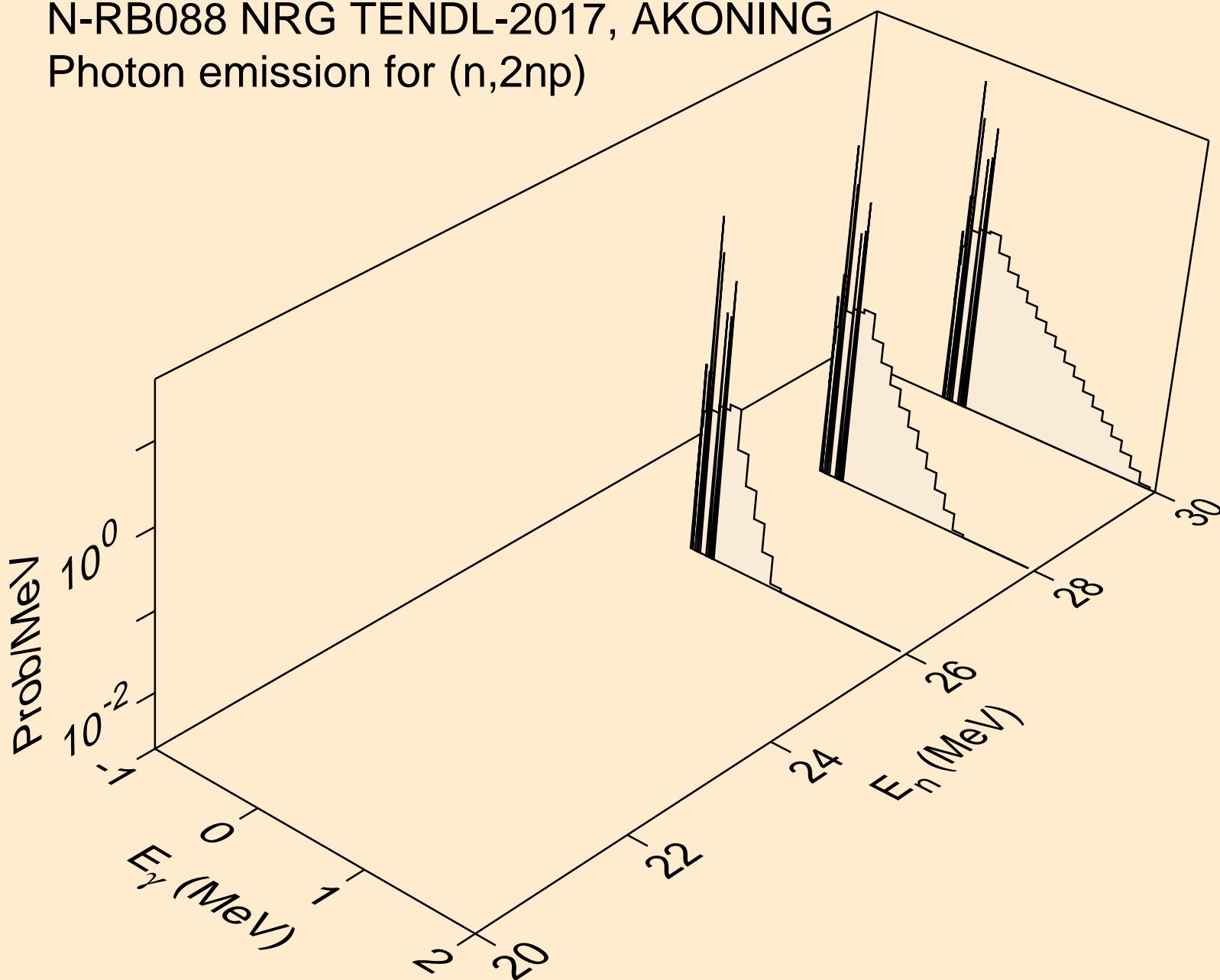
N-RB088 NRG TENDL-2017, AKONING  
Photon emission for (n,2np)



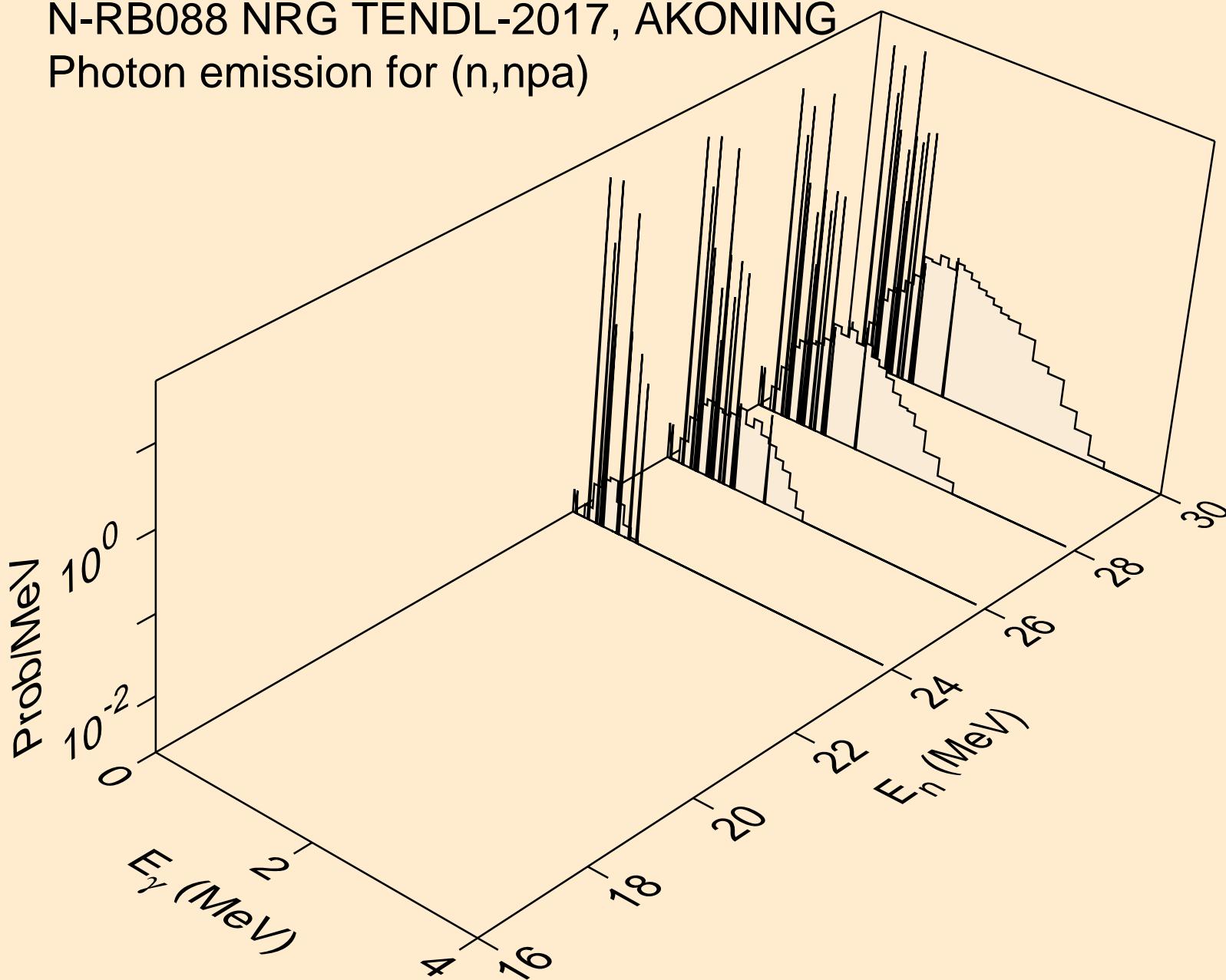
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Photon emission for (n,3np)



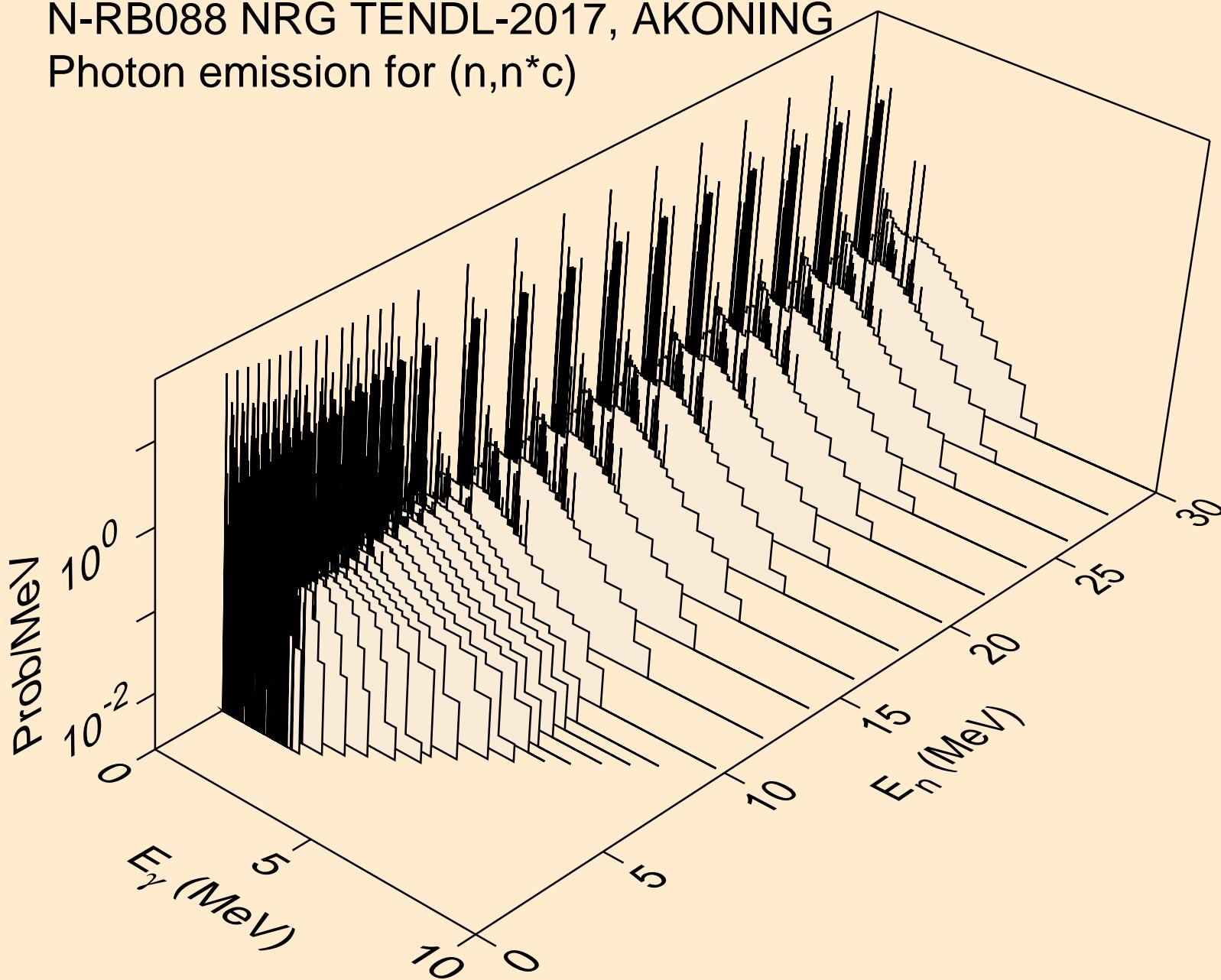
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Photon emission for (n,2np)



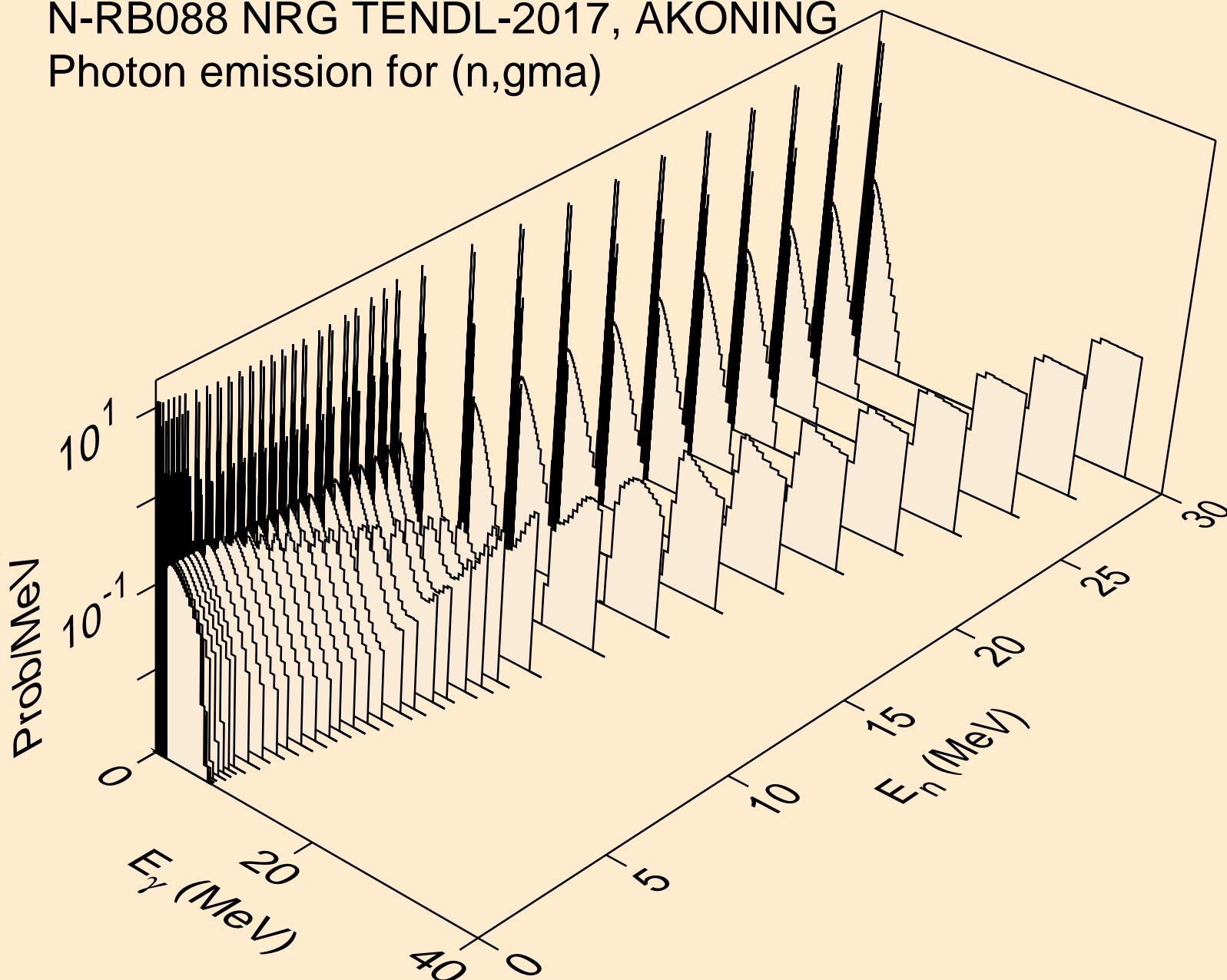
N-RB088 NRG TENDL-2017, AKONING  
Photon emission for (n,npa)



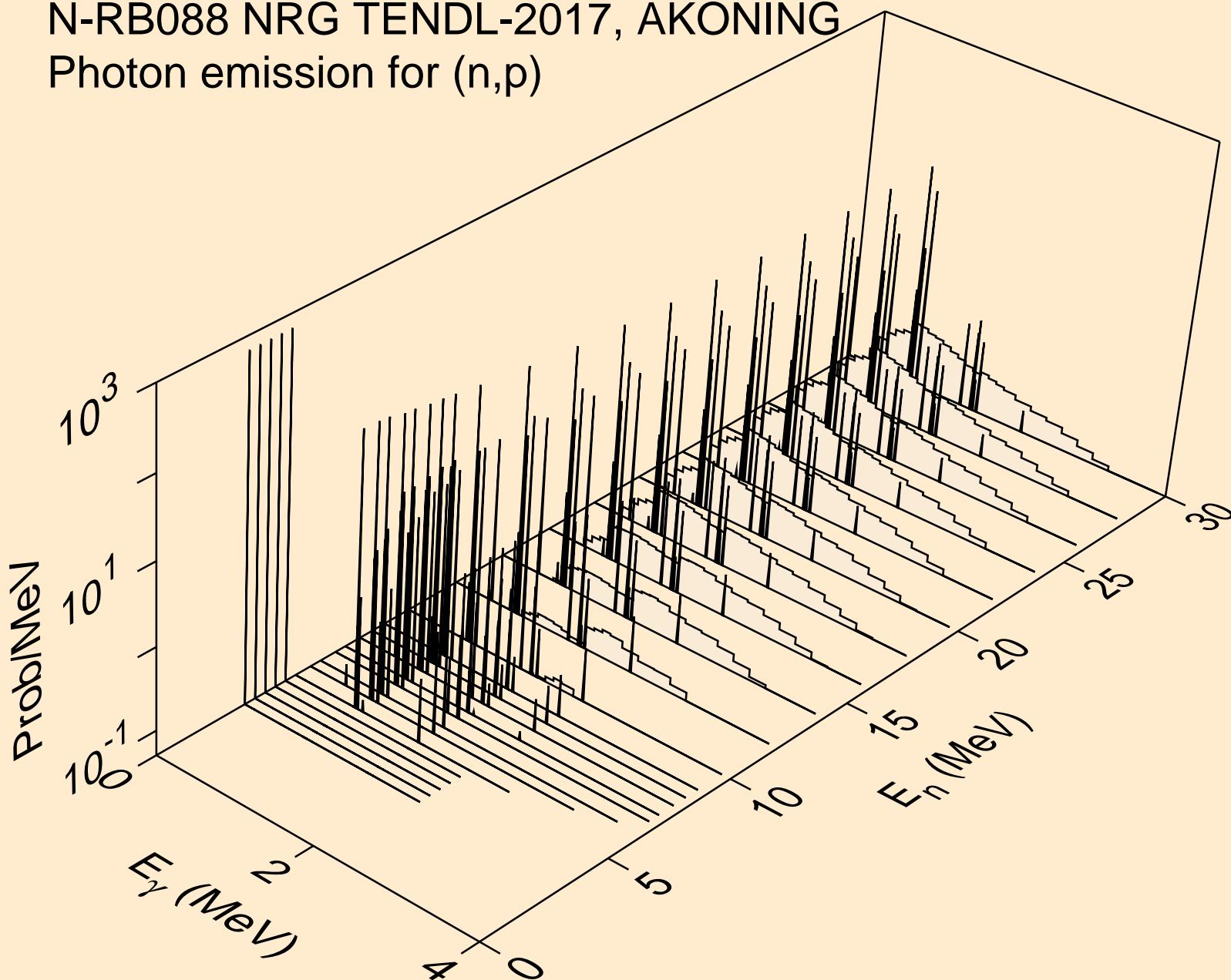
N-RB088 NRG TENDL-2017, AKONING  
Photon emission for ( $n, n^*c$ )



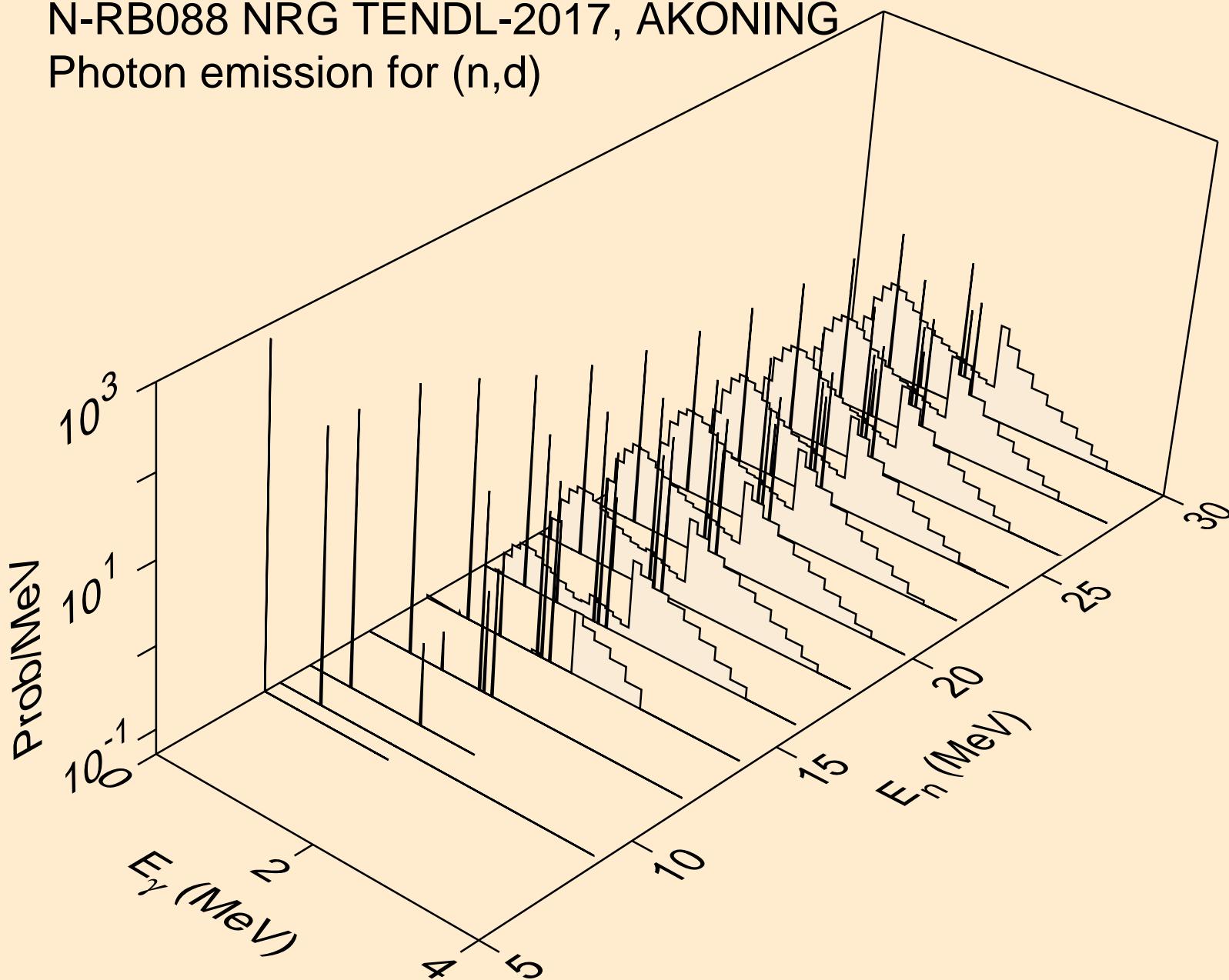
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Photon emission for (n,gma)



N-RB088 NRG TENDL-2017, AKONING  
Photon emission for (n,p)

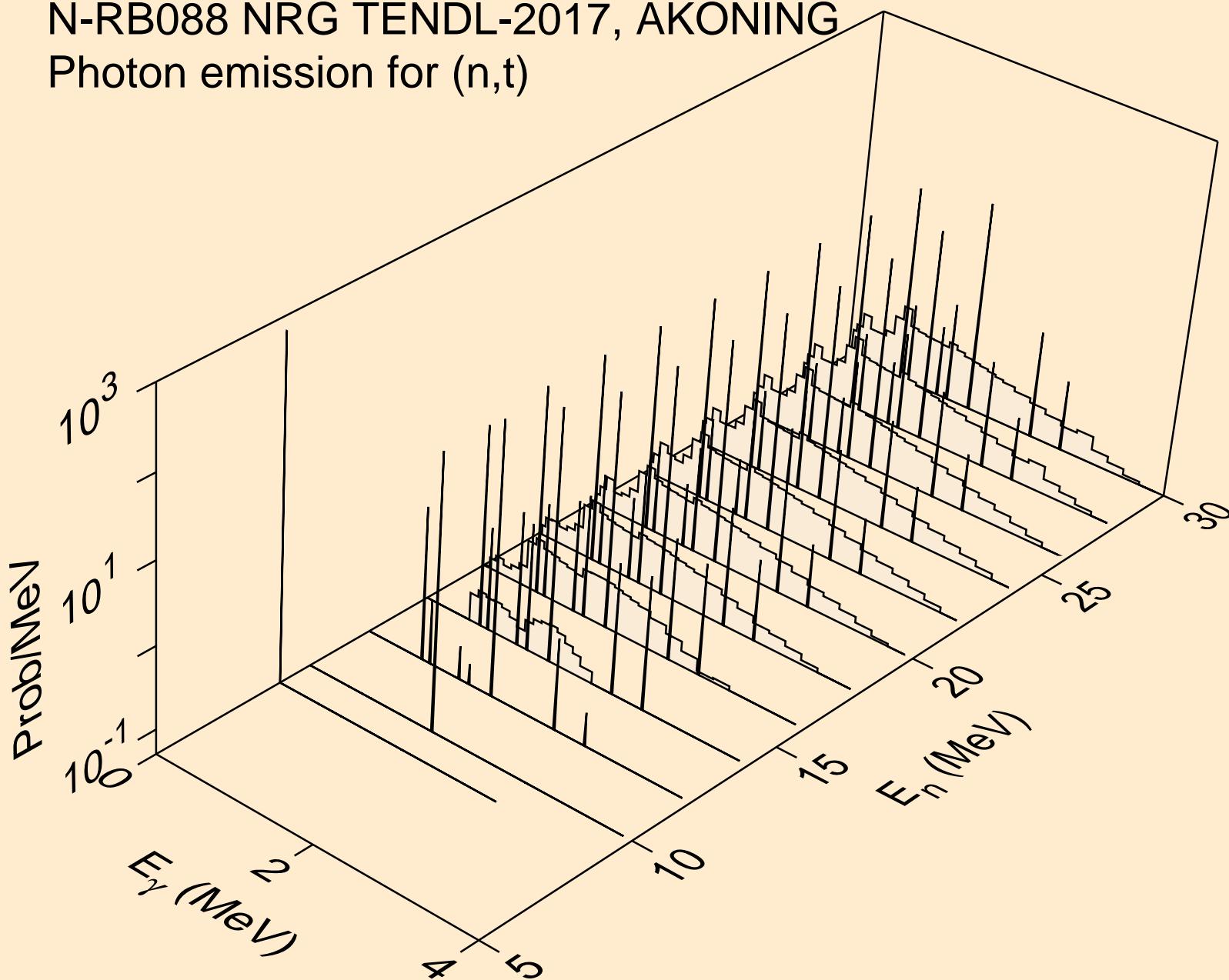


N-RB088 NRG TENDL-2017, AKONING  
Photon emission for (n,d)

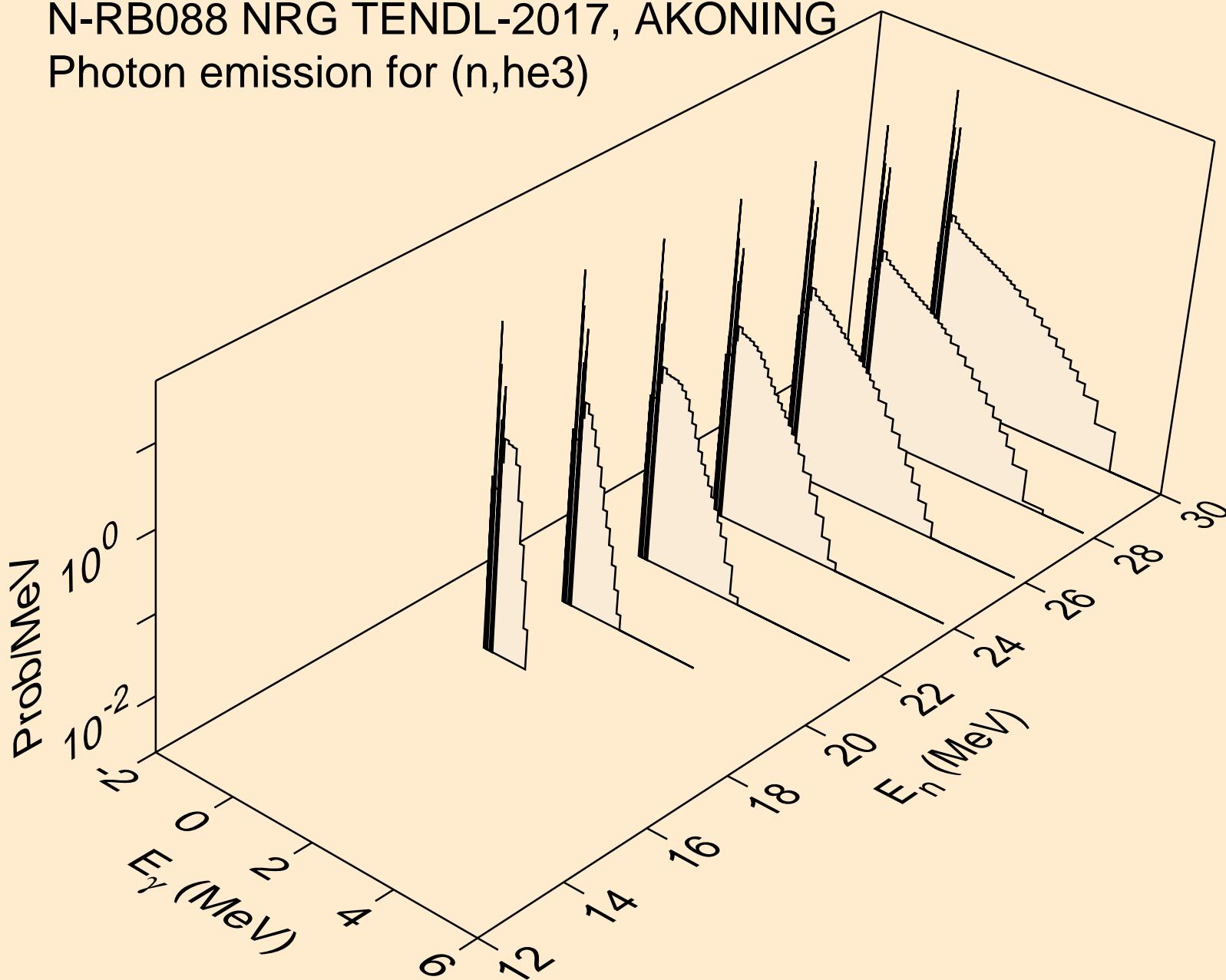


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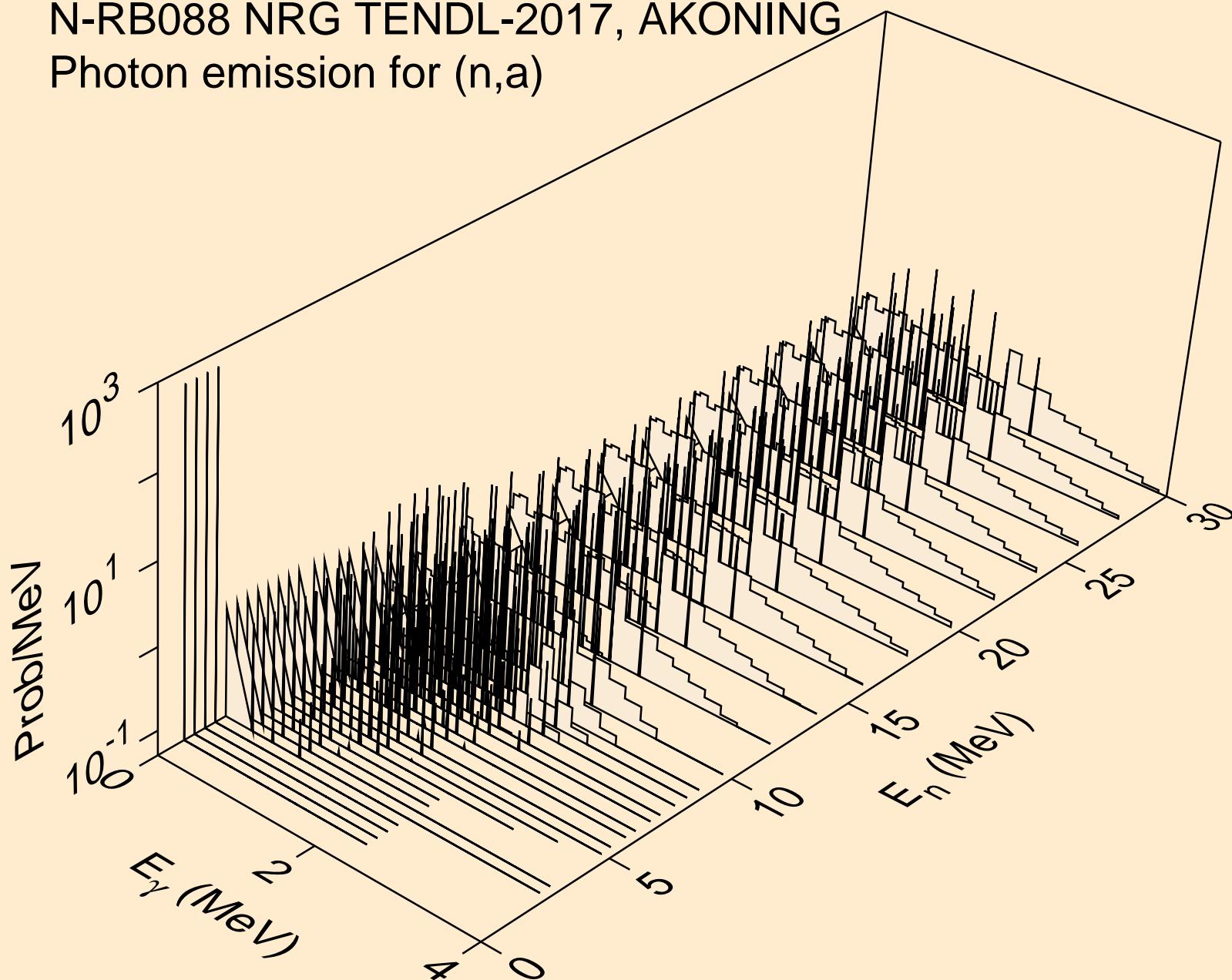
Photon emission for (n,t)



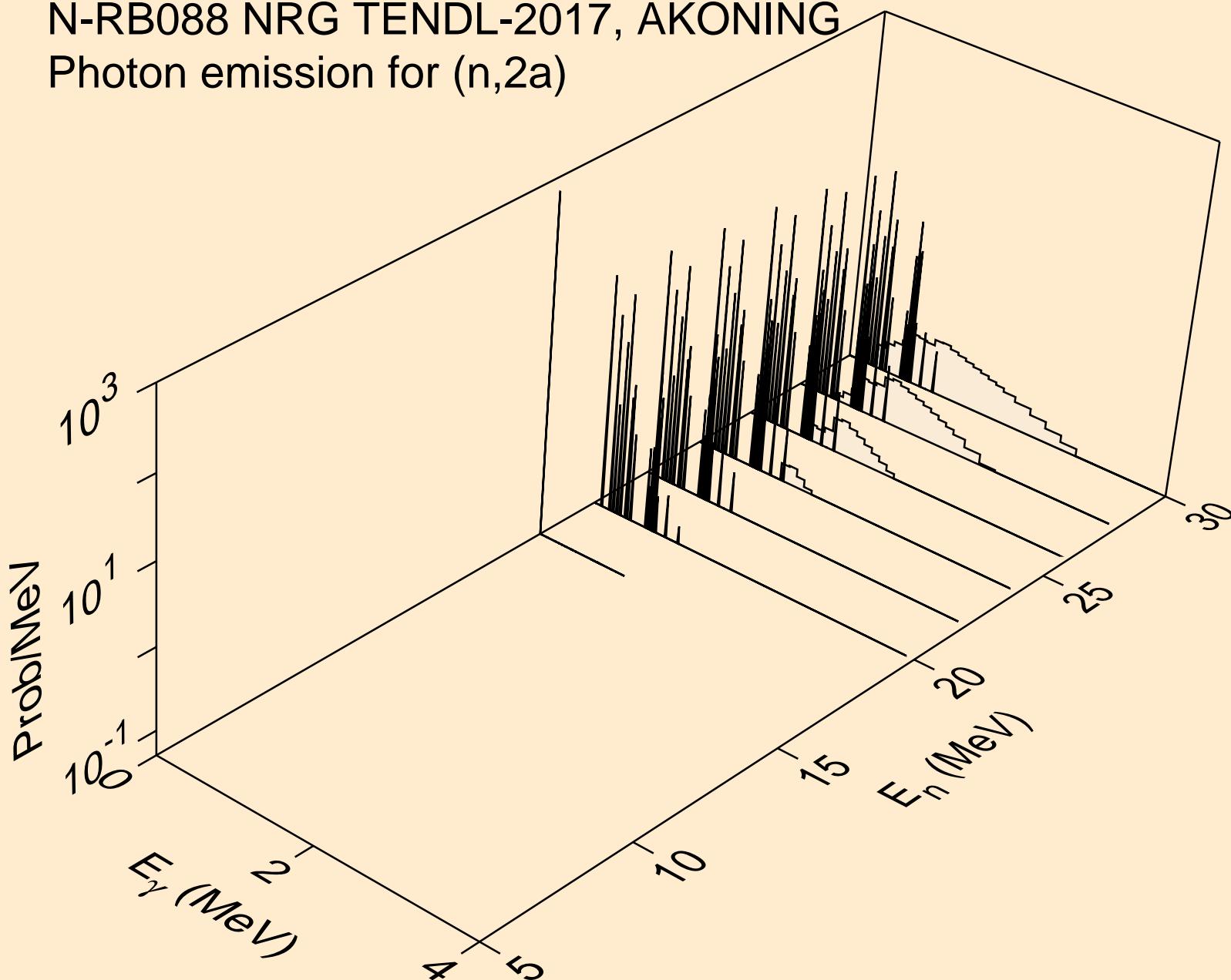
N-RB088 NRG TENDL-2017, AKONING  
Photon emission for (n,he3)



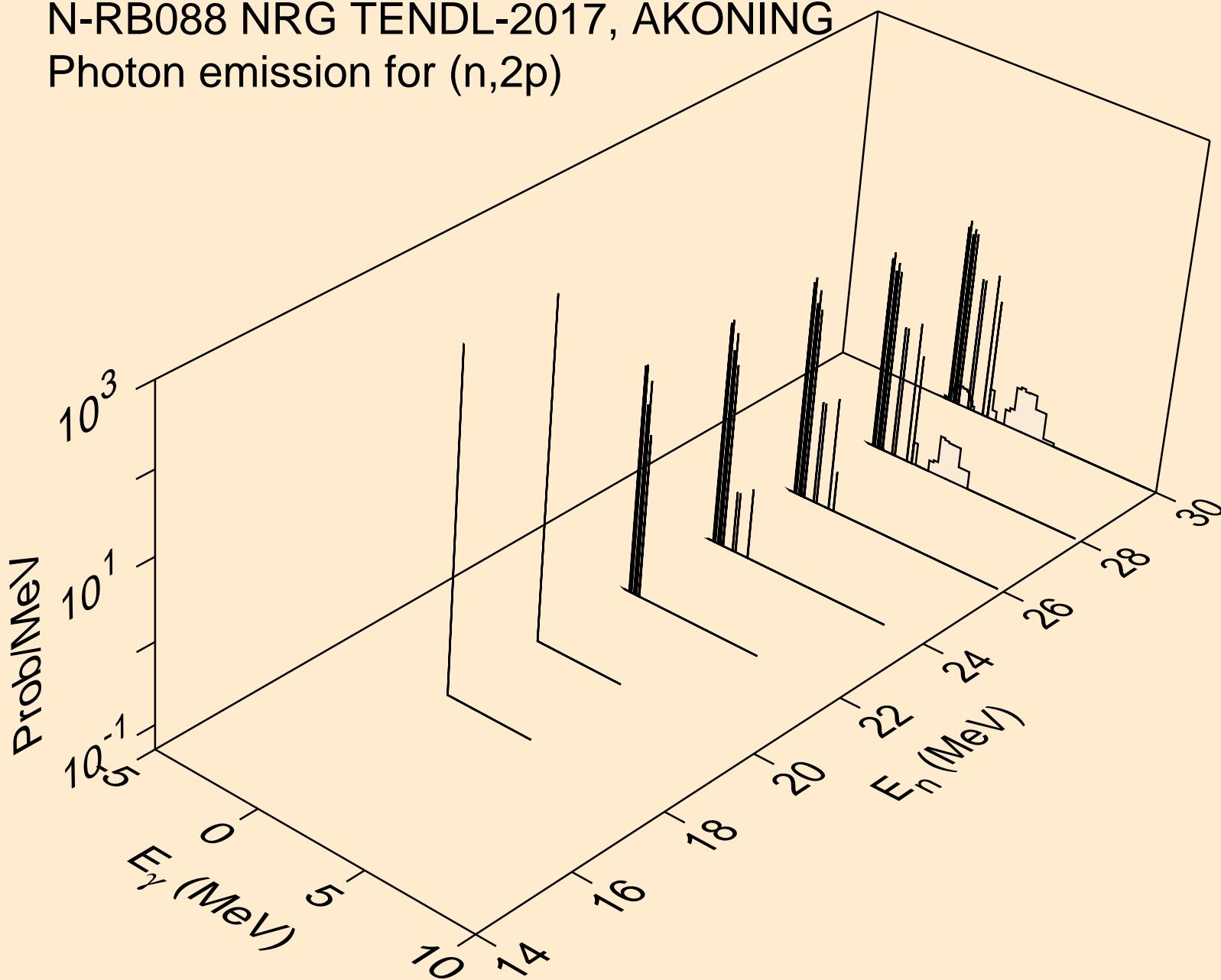
N-RB088 NRG TENDL-2017, AKONING  
Photon emission for (n,a)



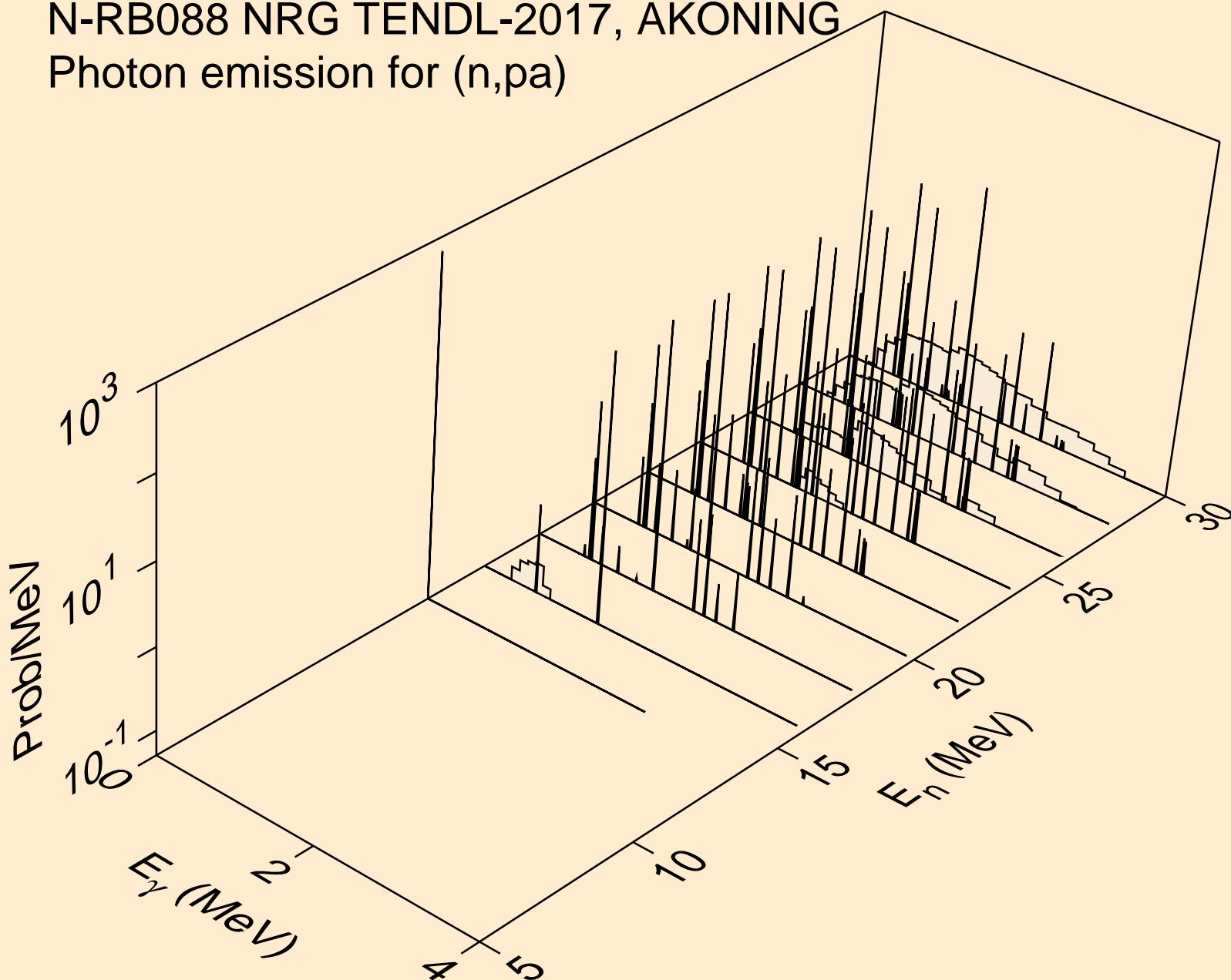
N-RB088 NRG TENDL-2017, AKONING  
Photon emission for (n,2a)



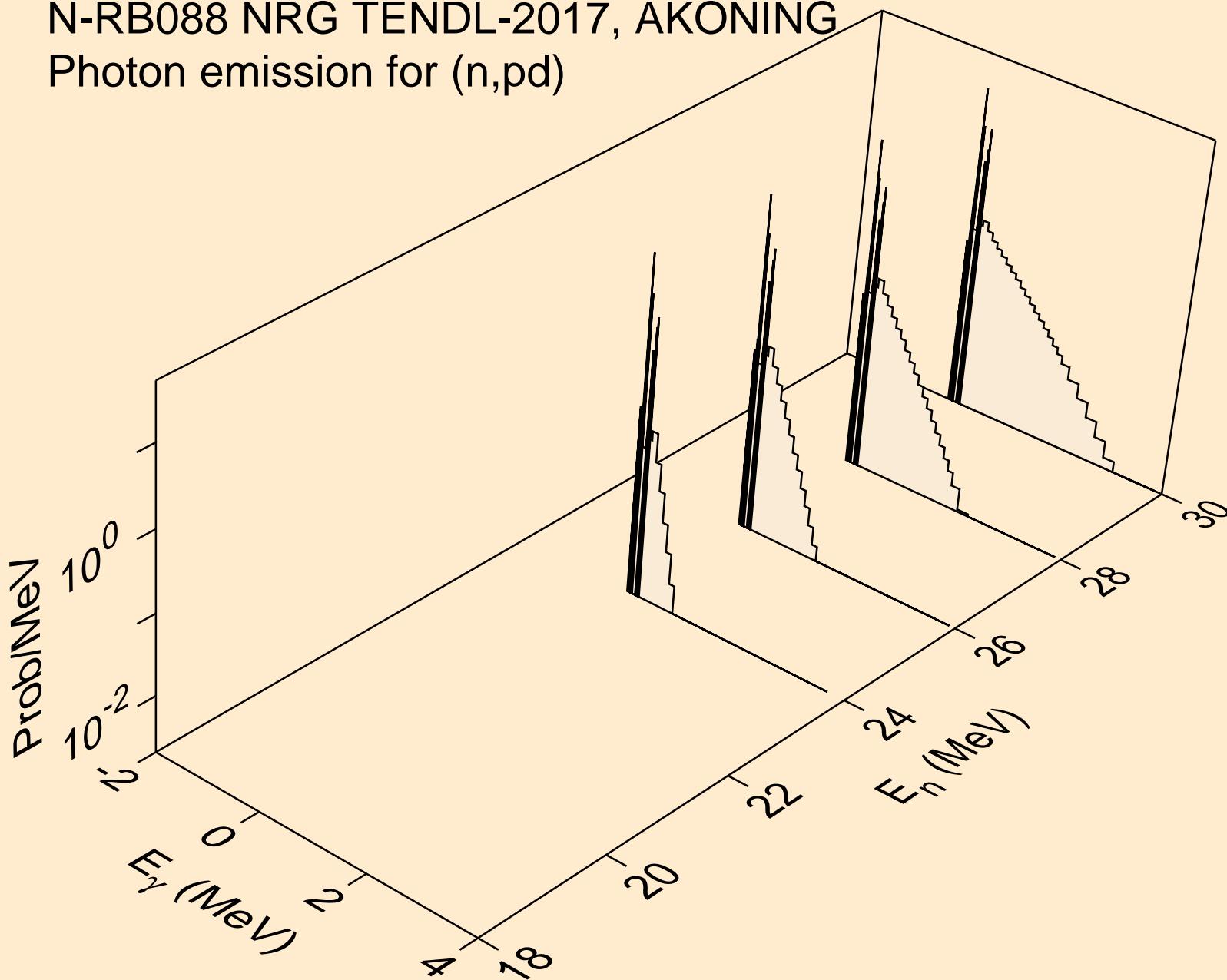
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Photon emission for (n,2p)



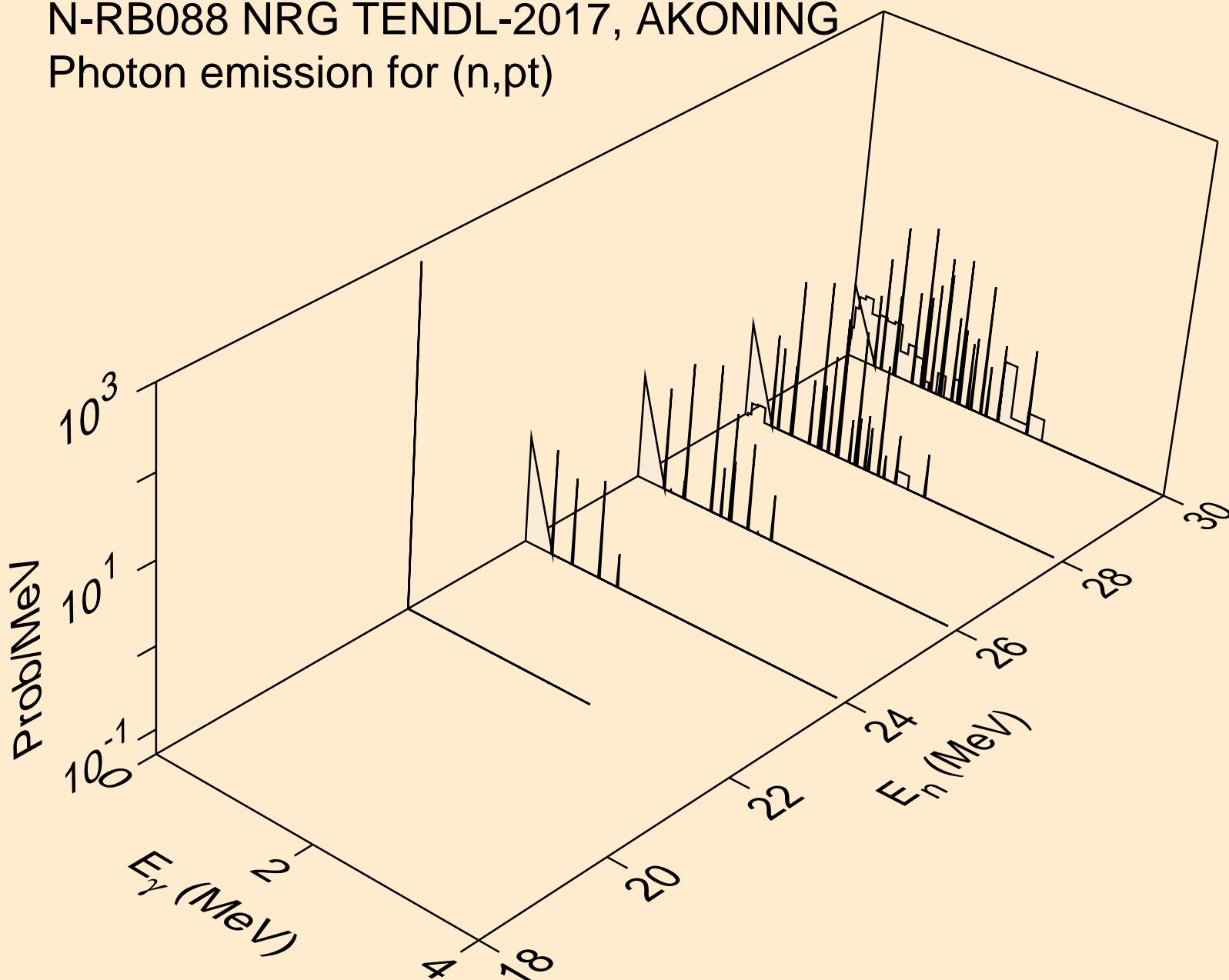
N-RB088 NRG TENDL-2017, AKONING  
Photon emission for (n,pa)



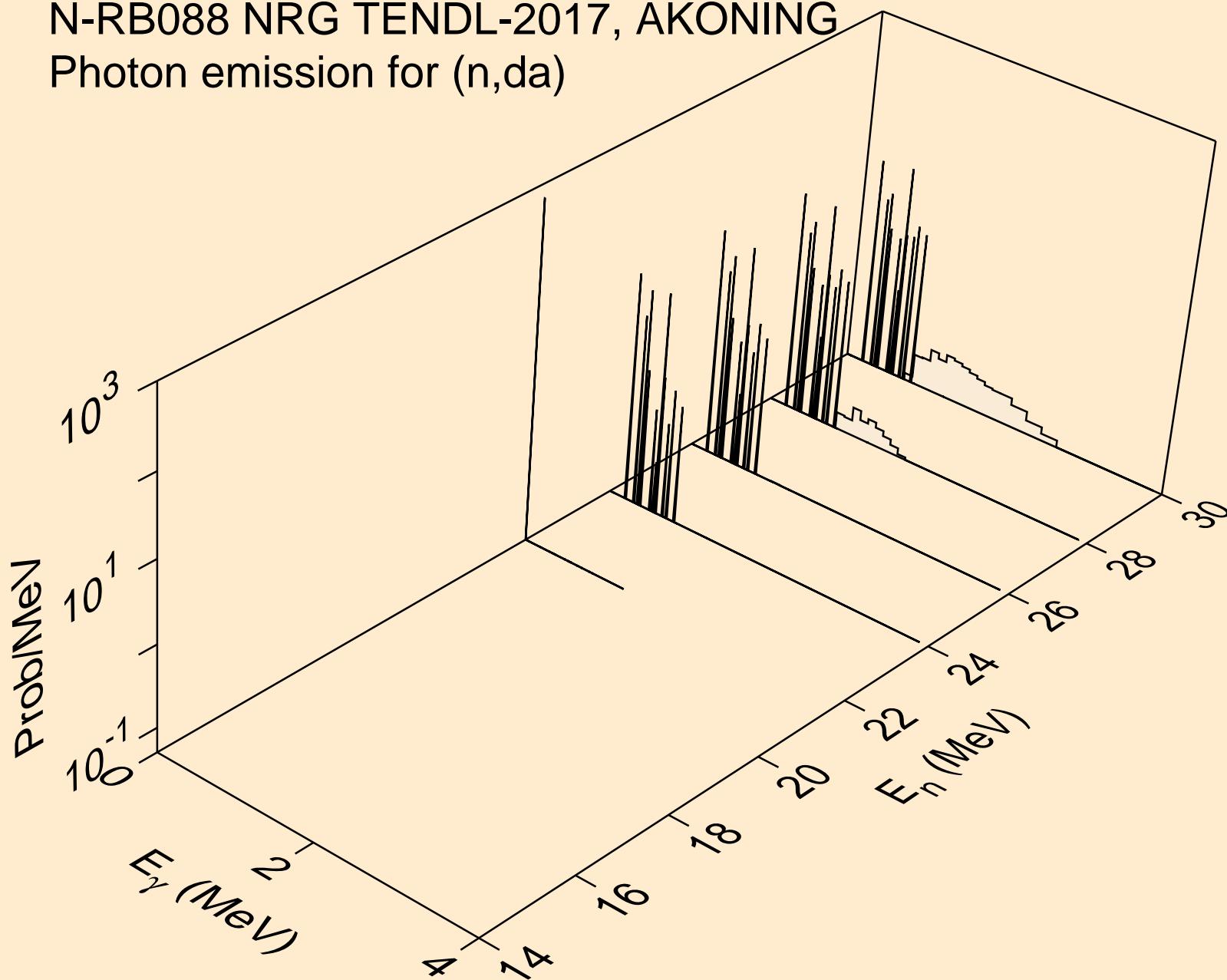
N-RB088 NRG TENDL-2017, AKONING  
Photon emission for (n,pd)



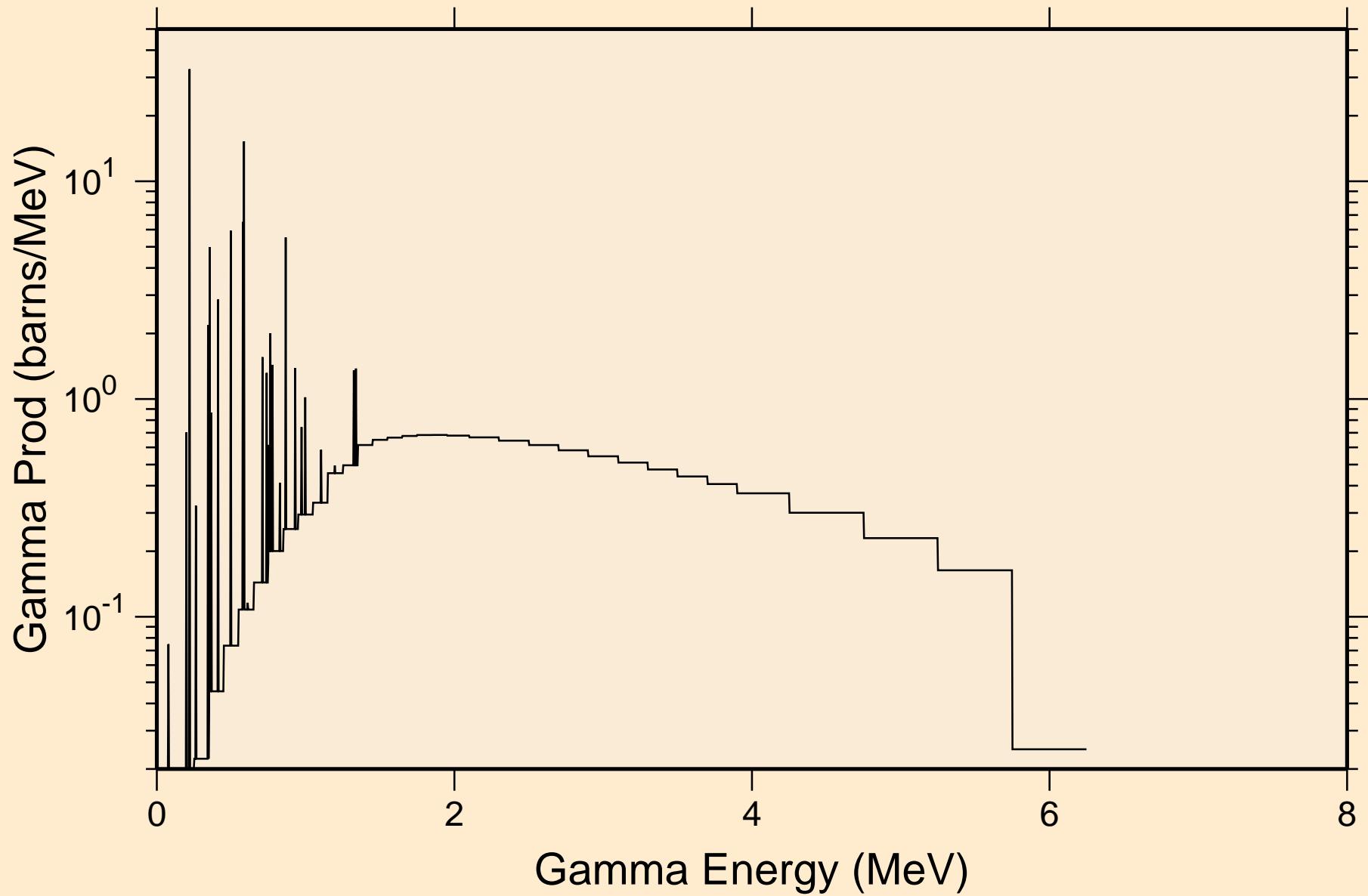
N-RB088 NRG TENDL-2017, AKONING  
Photon emission for (n,pt)



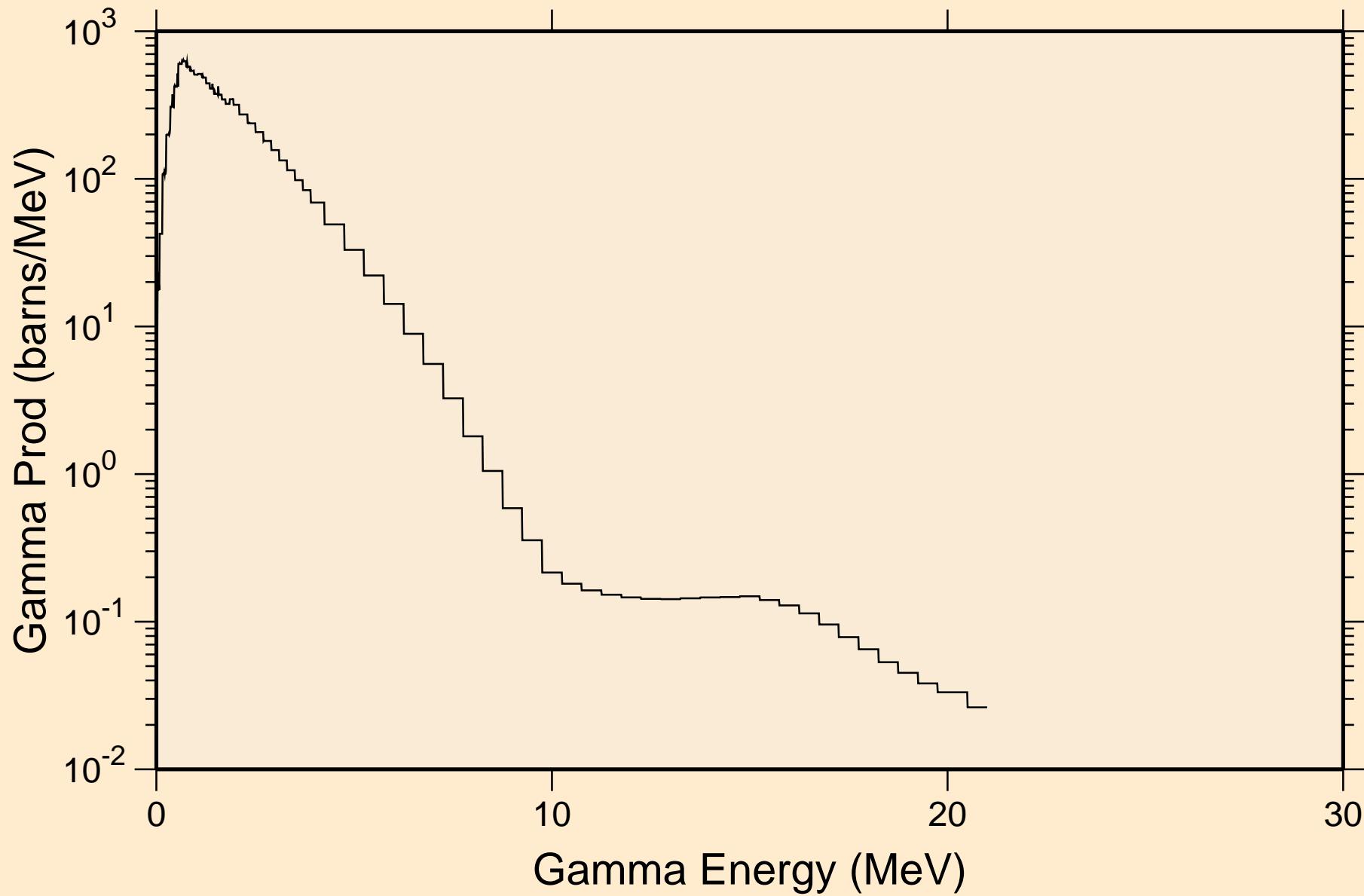
N-RB088 NRG TENDL-2017, AKONING  
Photon emission for (n,da)



N-RB088 NRG TENDL-2017, AKONING  
thermal capture photon spectrum

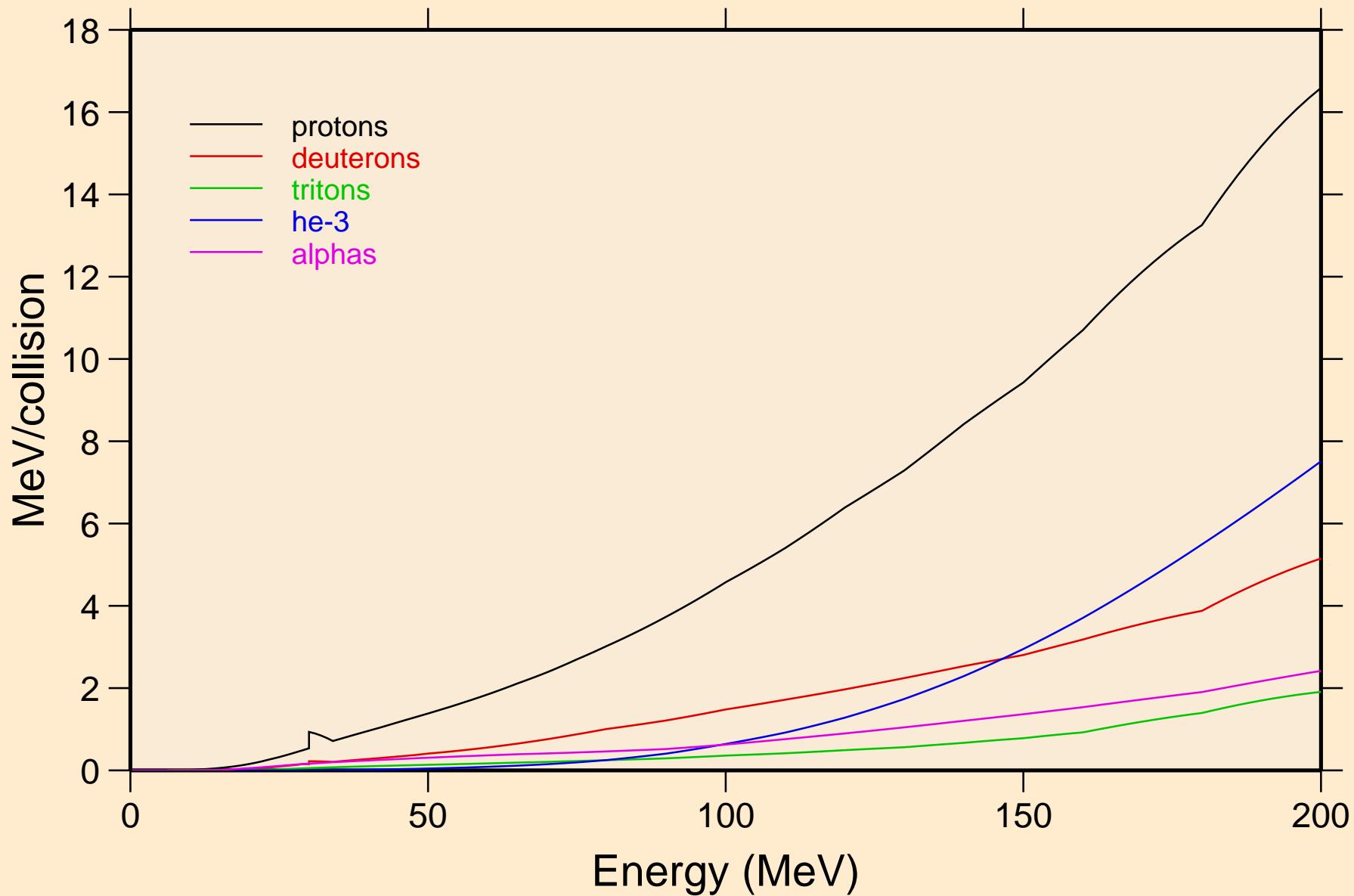


N-RB088 NRG TENDL-2017, AKONING  
14 MeV photon spectrum



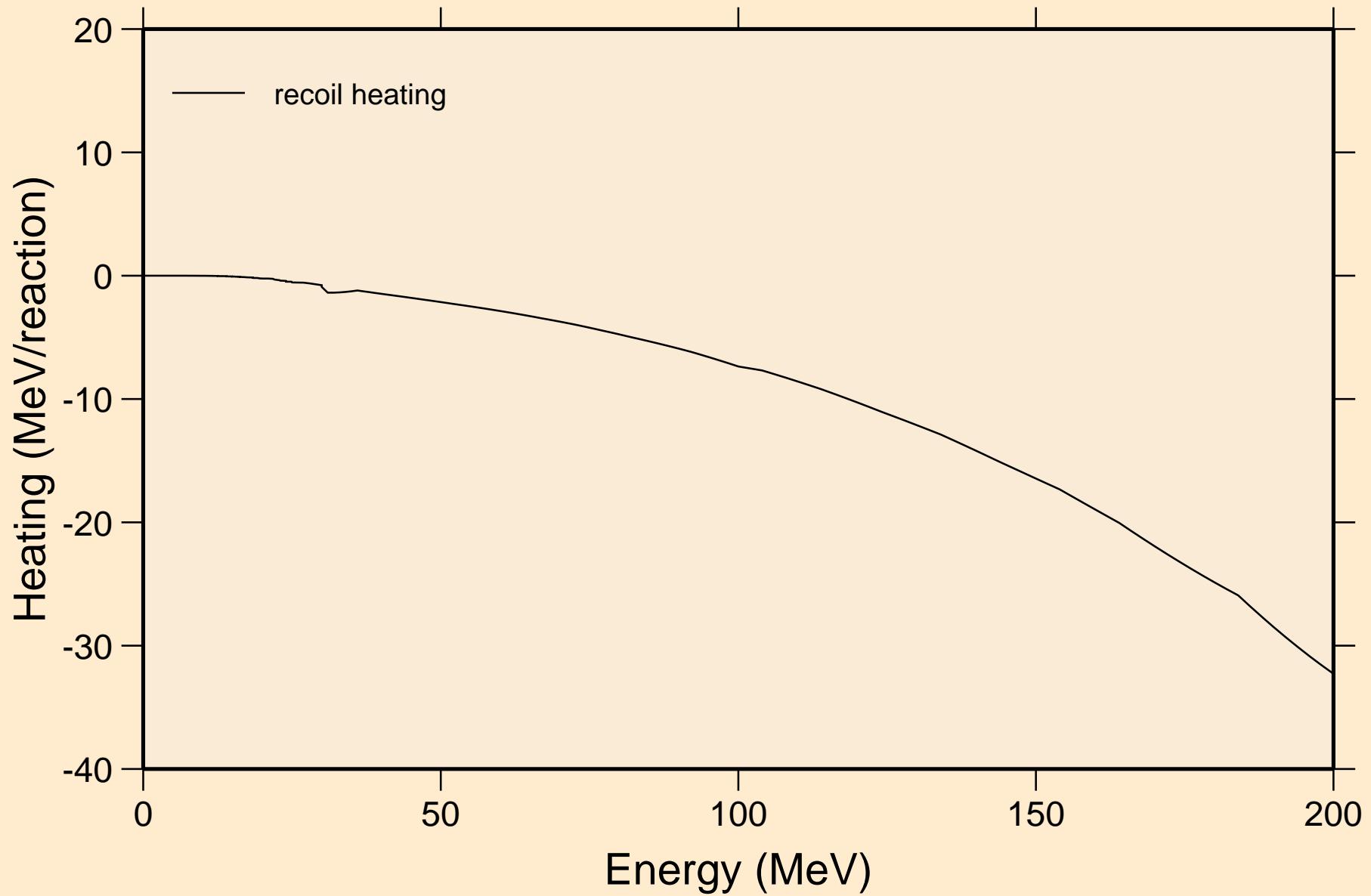
# N-RB088 NRG TENDL-2017, AKONING

## Particle heating contributions



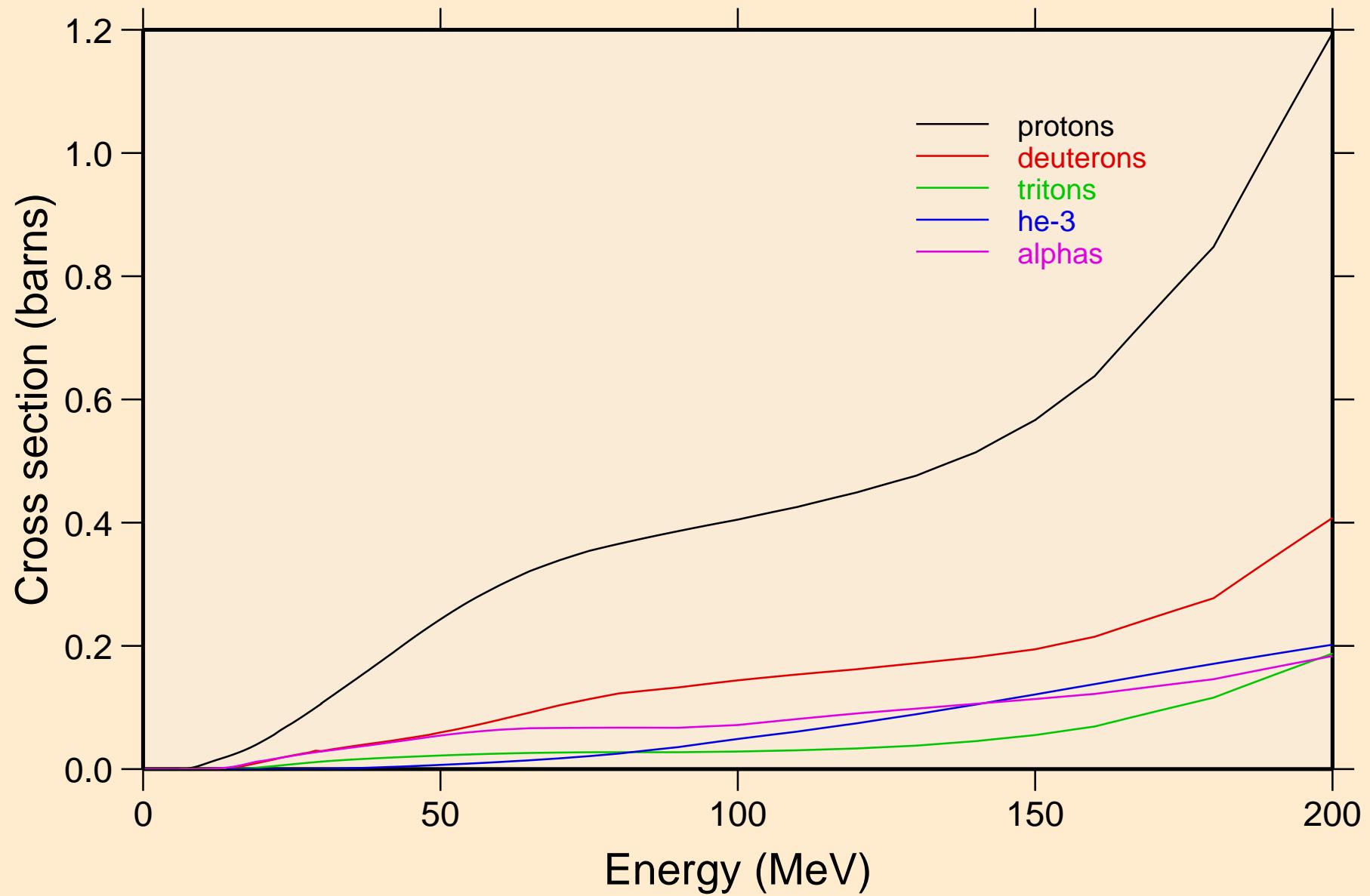
# N-RB088 NRG TENDL-2017, AKONING

## Recoil Heating

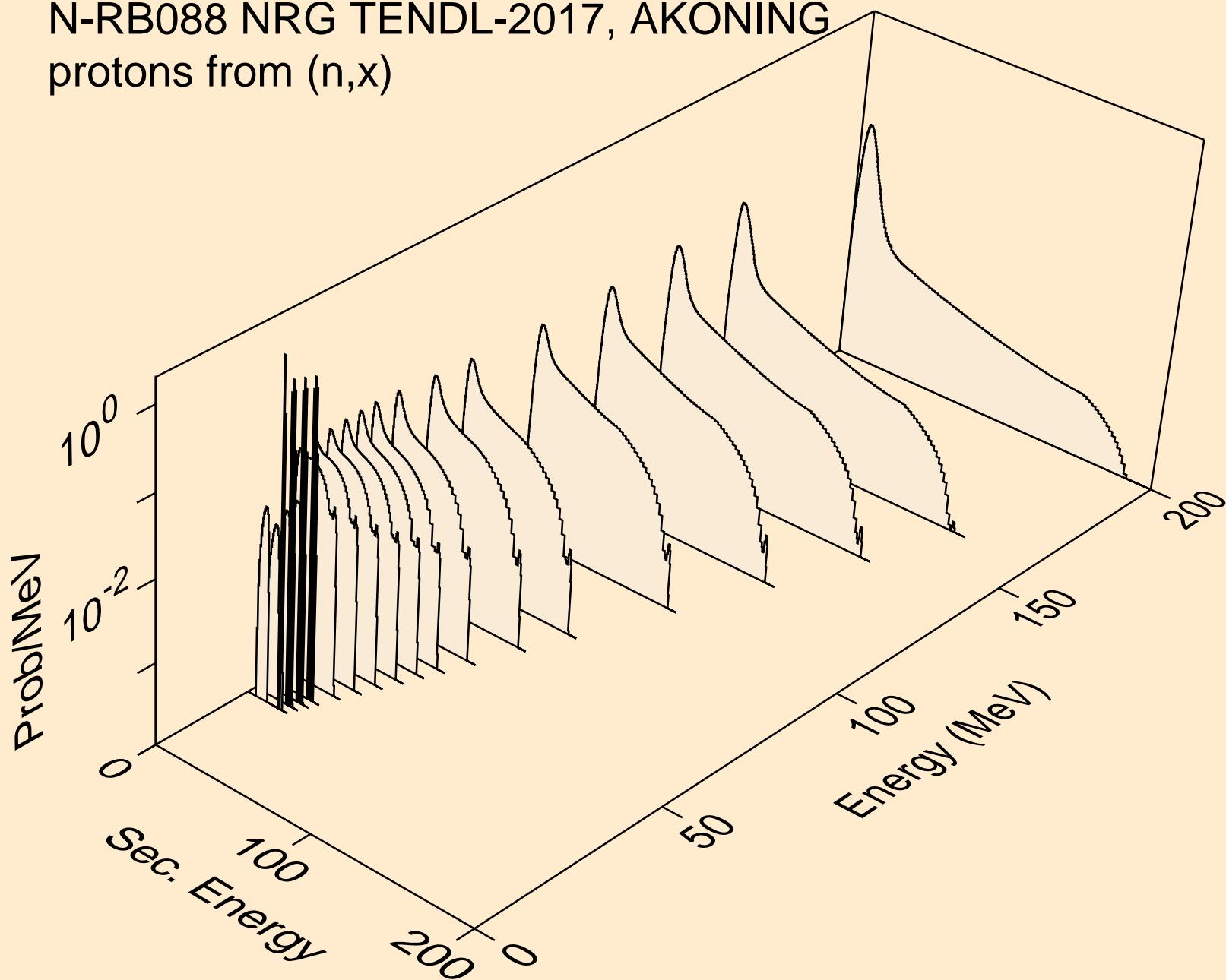


# N-RB088 NRG TENDL-2017, AKONING

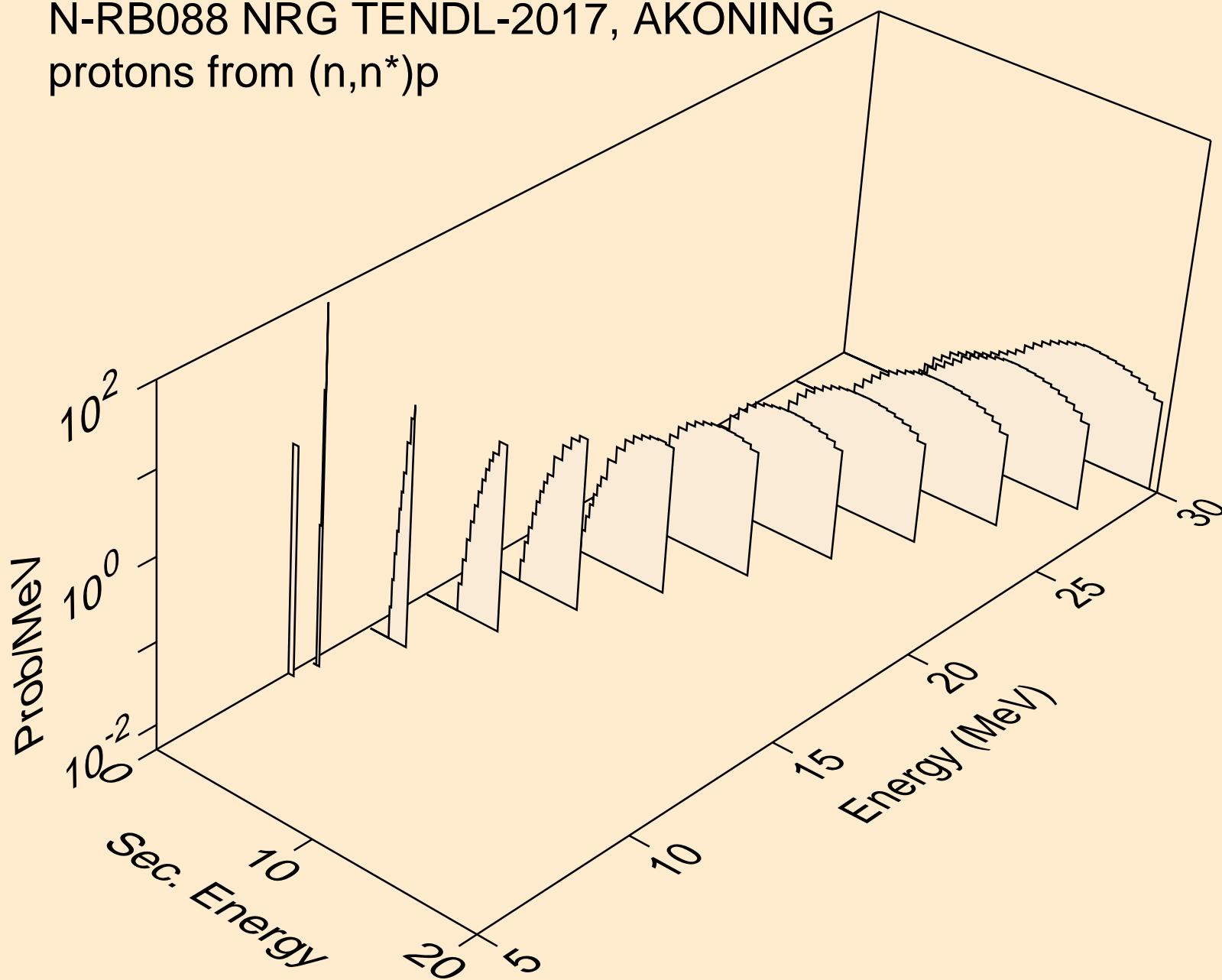
## Particle production cross sections



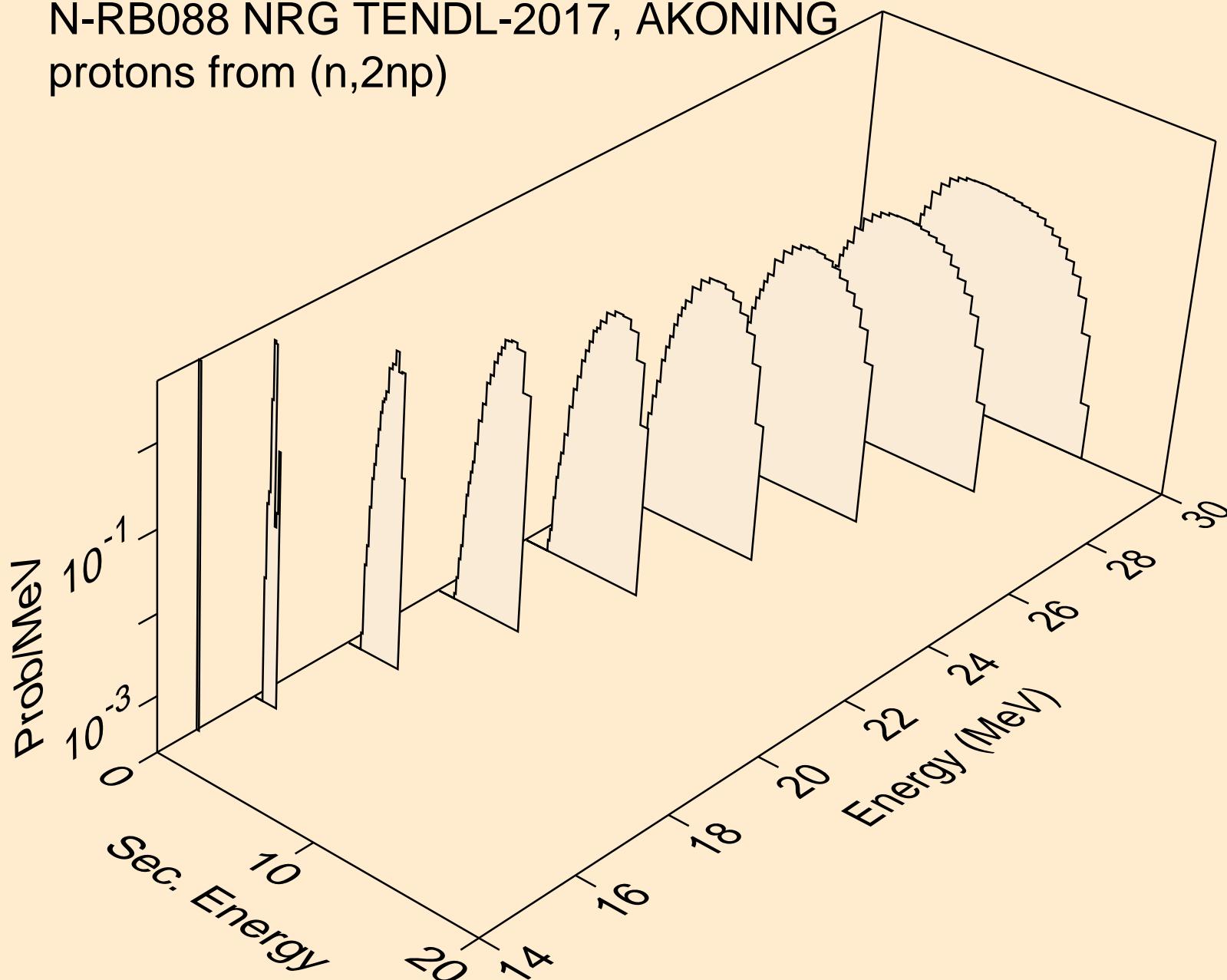
N-RB088 NRG TENDL-2017, AKONING  
protons from ( $n,x$ )



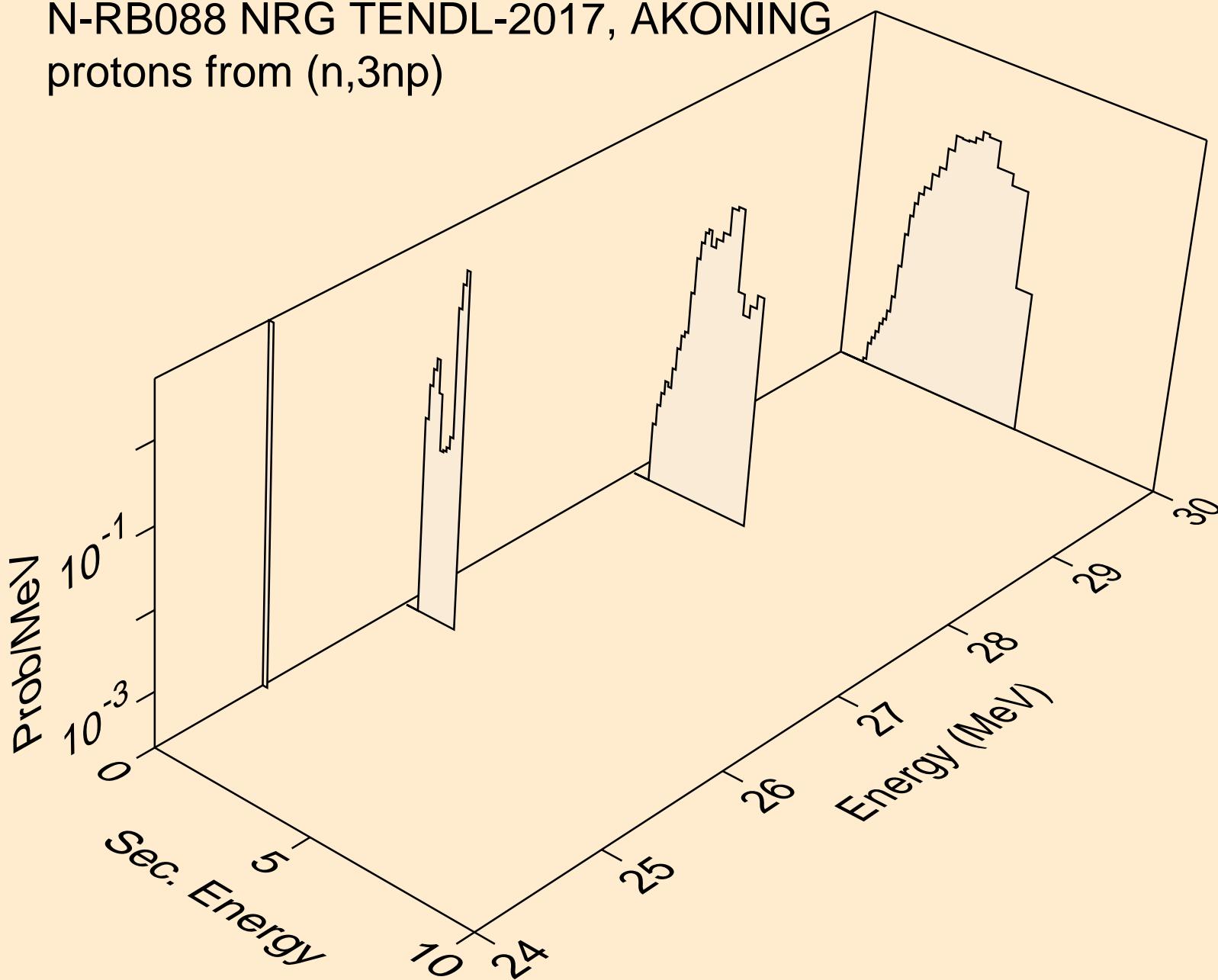
N-RB088 NRG TENDL-2017, AKONING  
protons from  $(n,n^*)p$



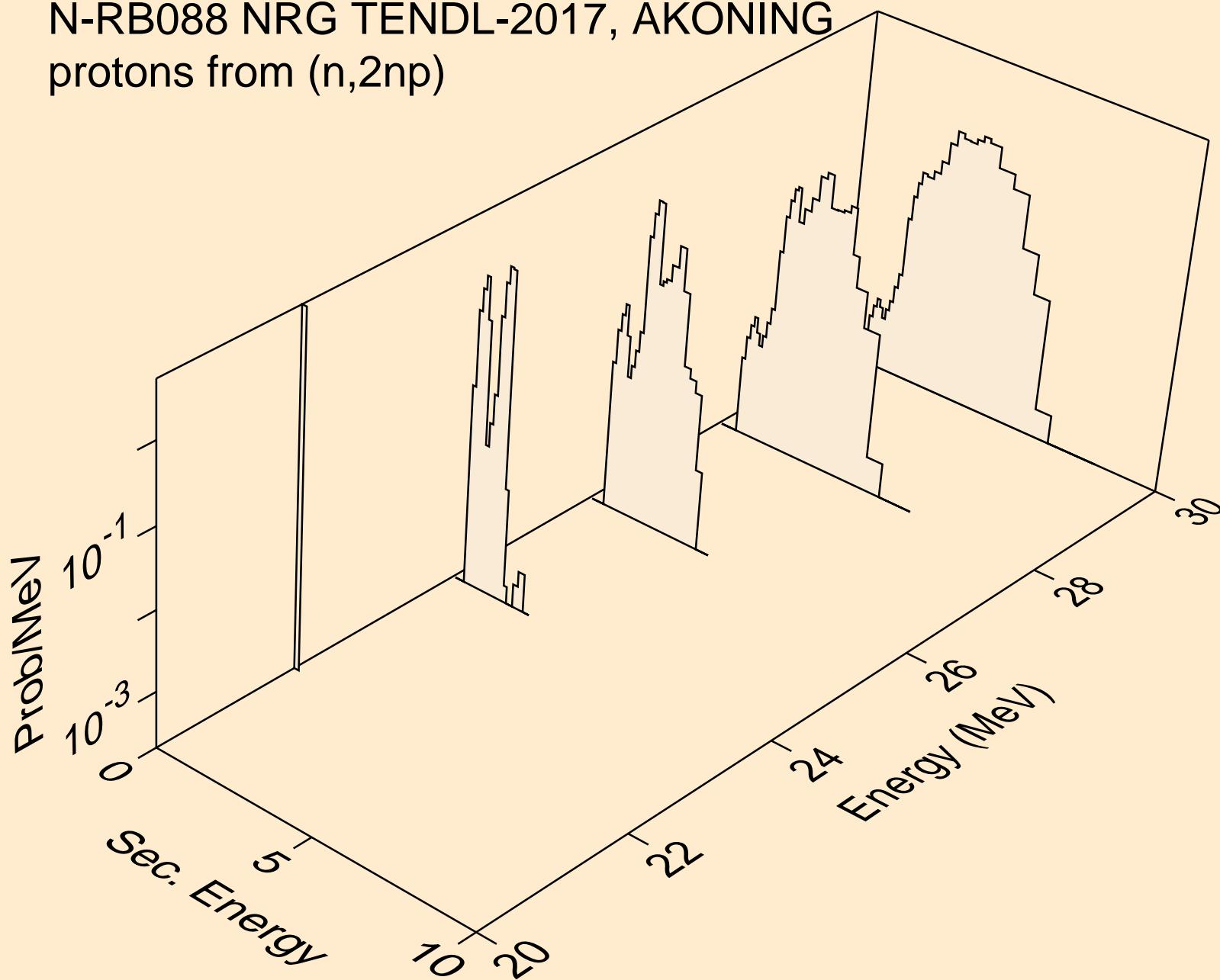
N-RB088 NRG TENDL-2017, AKONING  
protons from ( $n,2np$ )



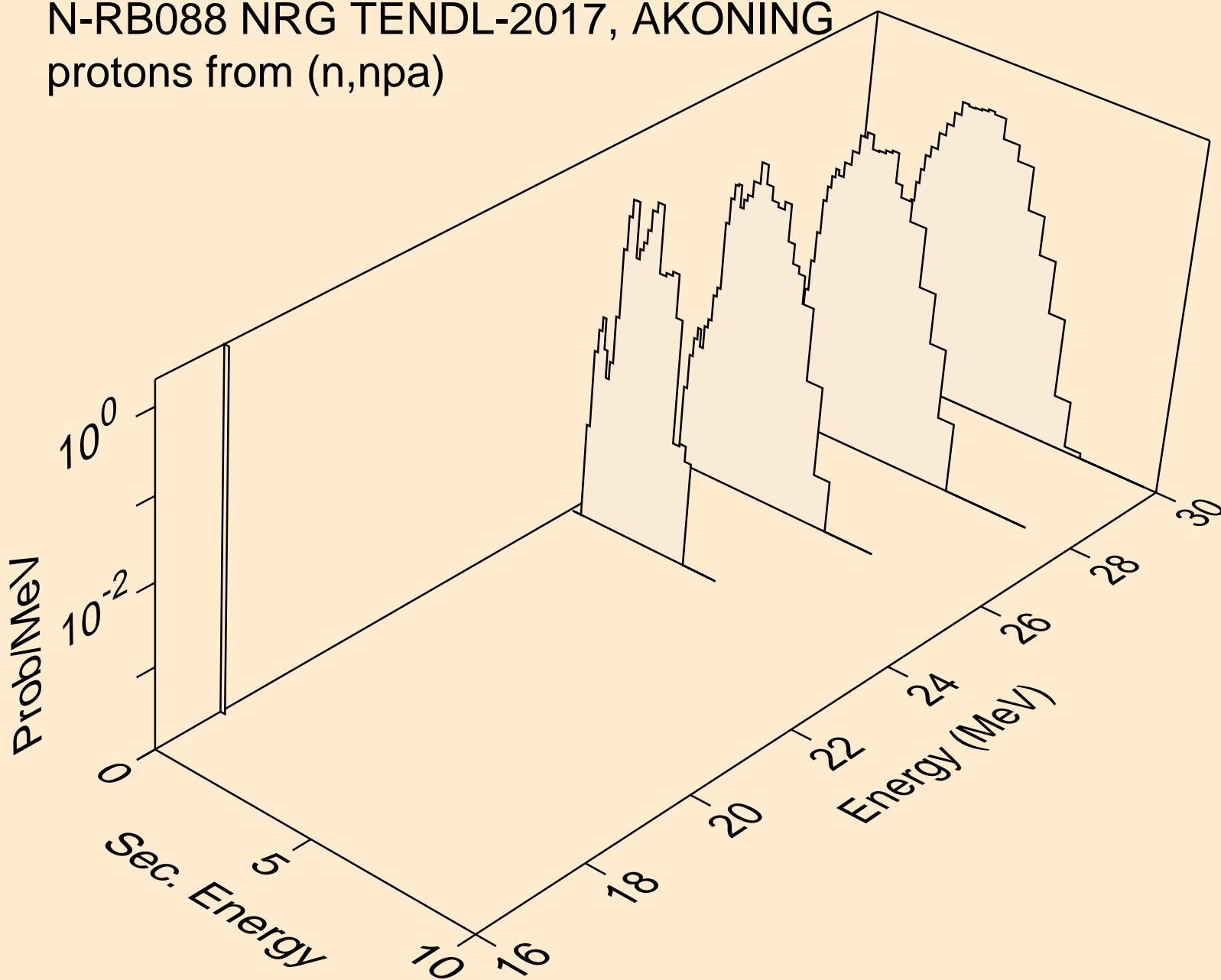
N-RB088 NRG TENDL-2017, AKONING  
protons from ( $n,3np$ )



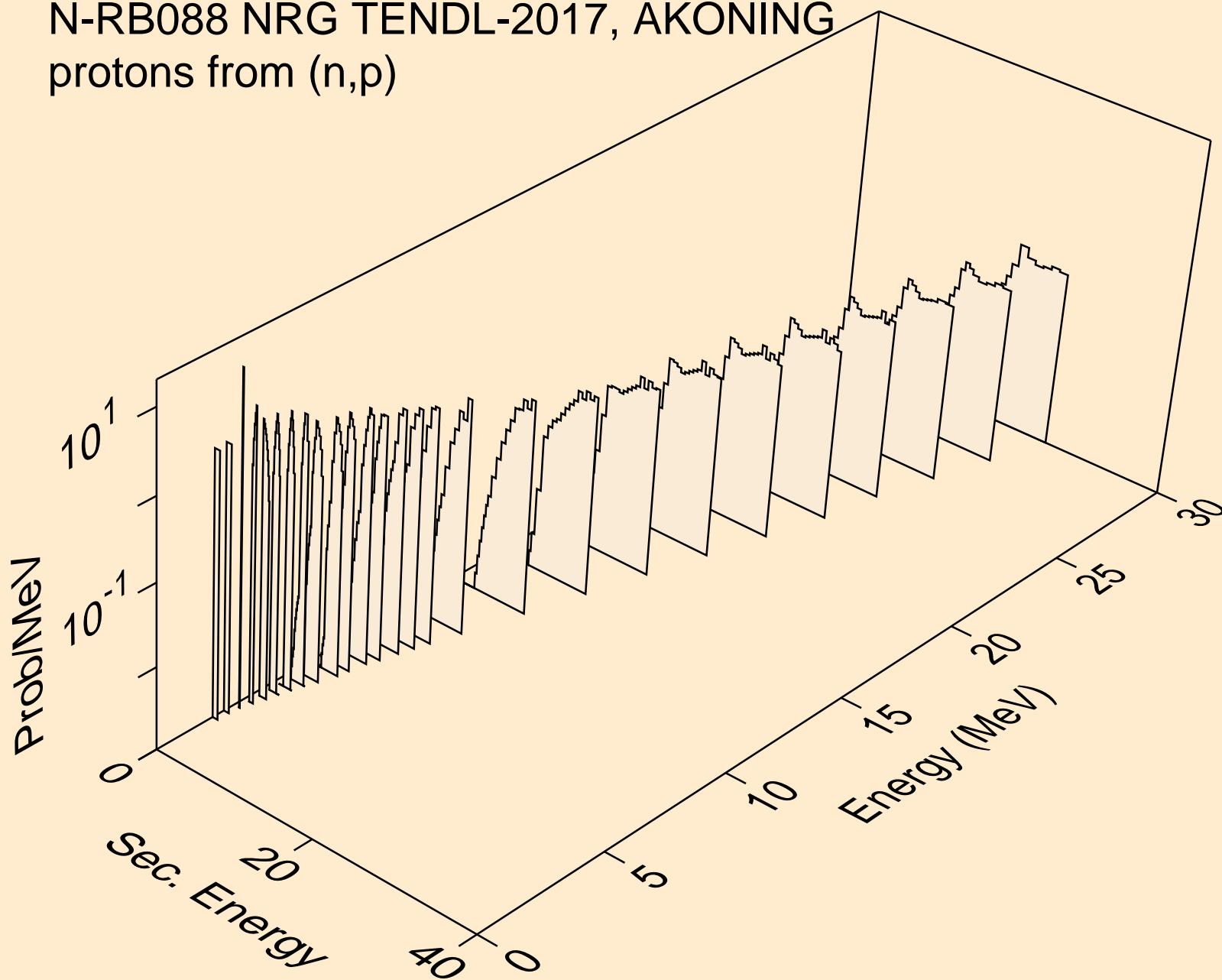
N-RB088 NRG TENDL-2017, AKONING  
protons from ( $n,2np$ )



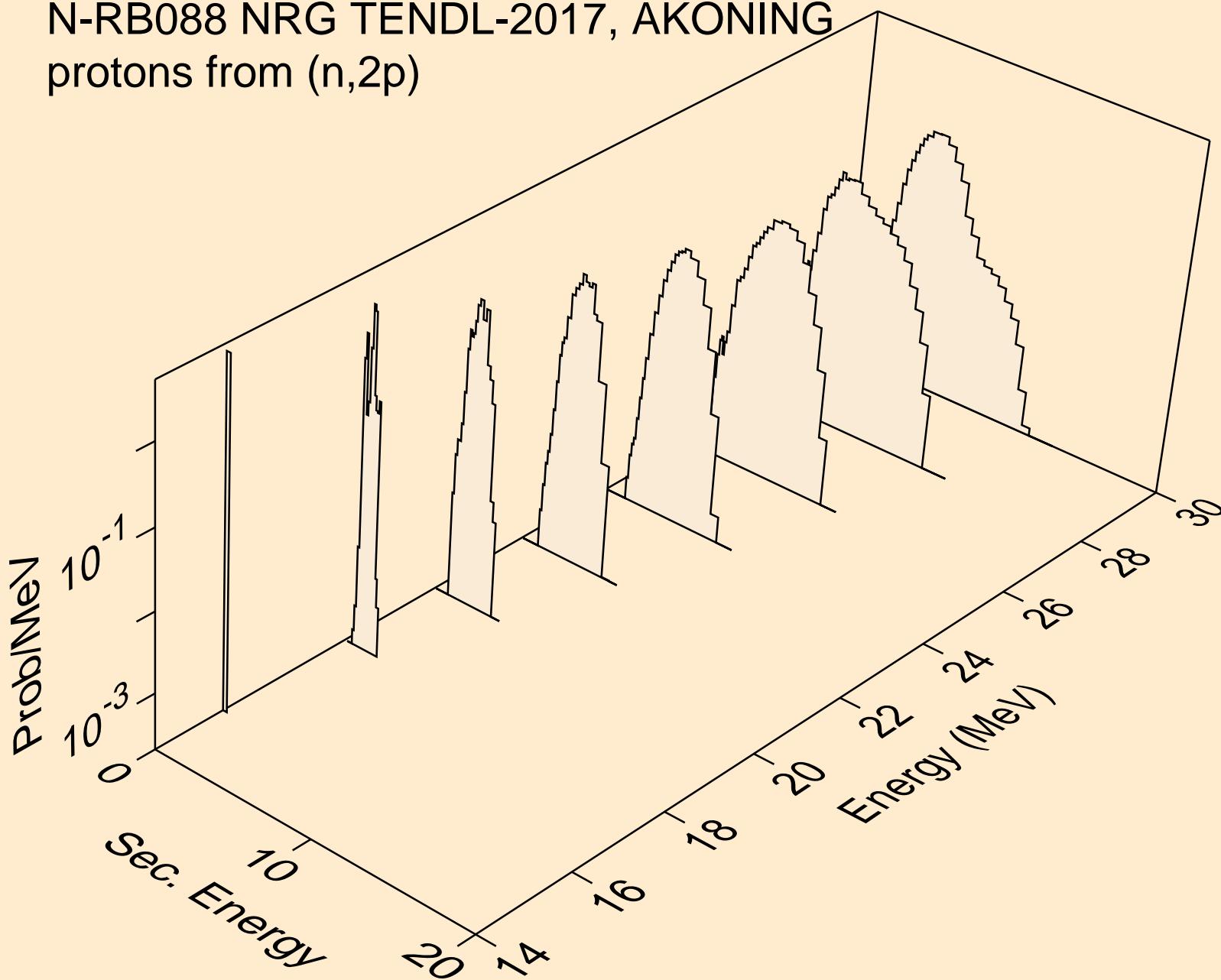
N-RB088 NRG TENDL-2017, AKONING  
protons from (n,npa)



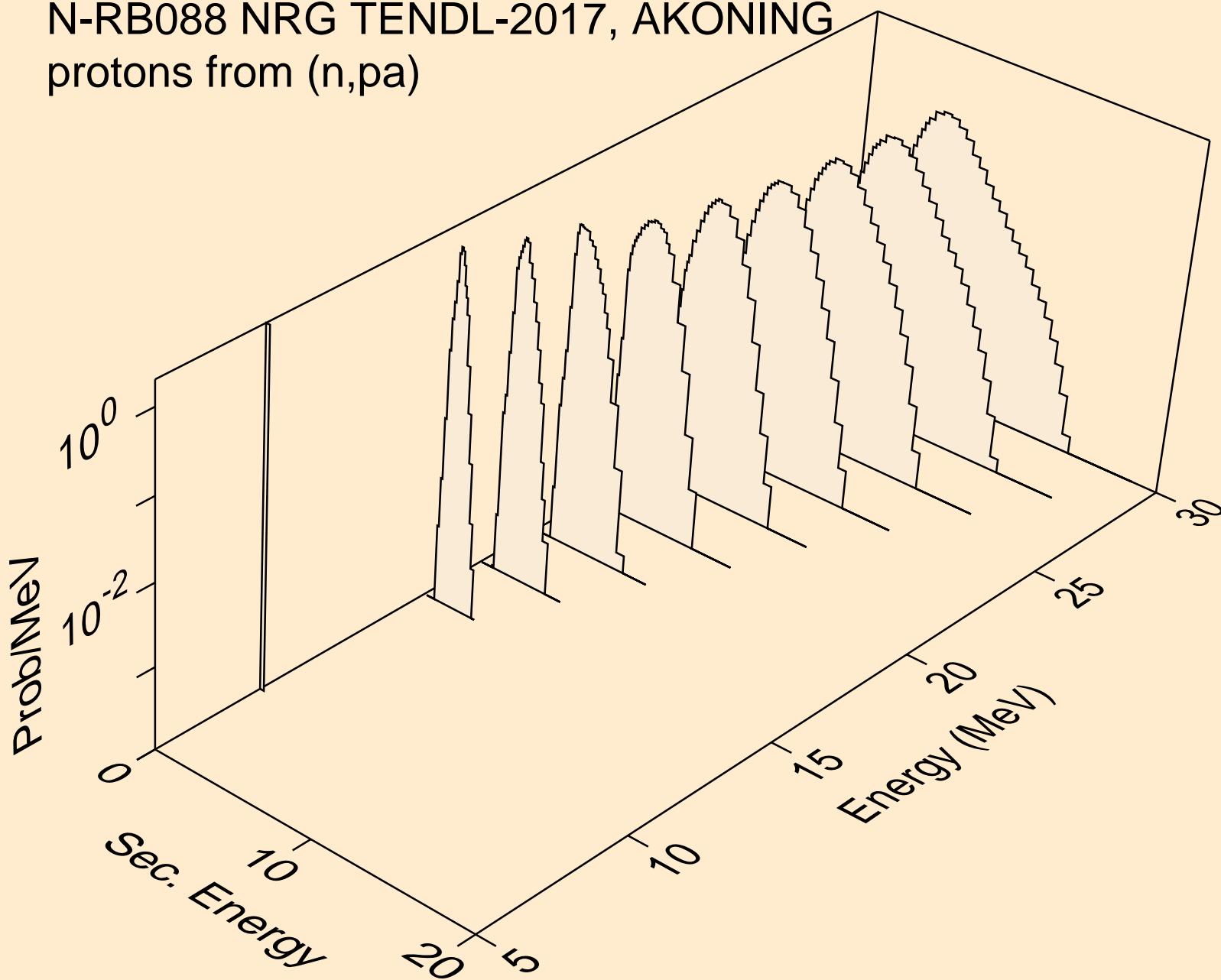
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protons from (n,p)



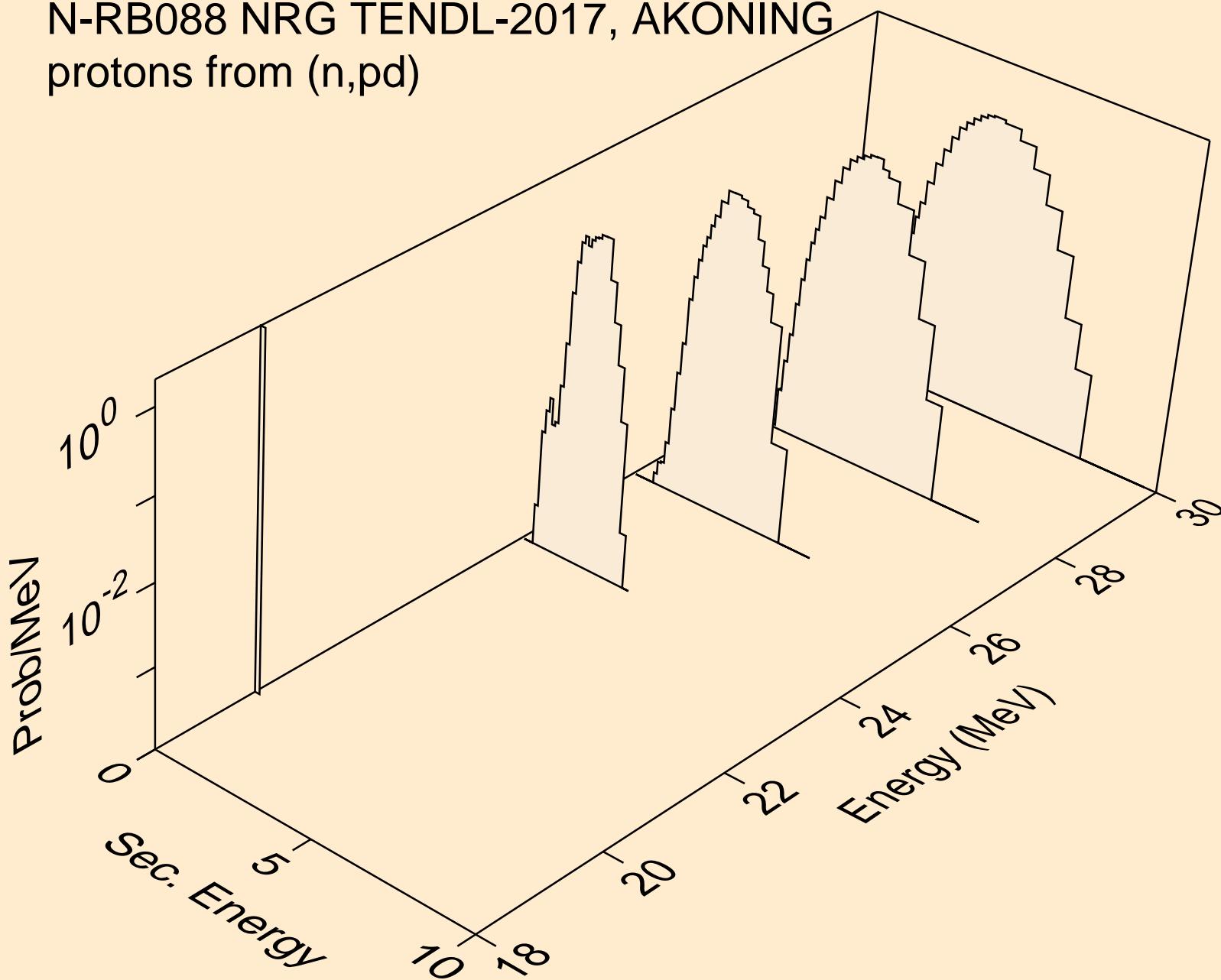
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protons from ( $n,2p$ )



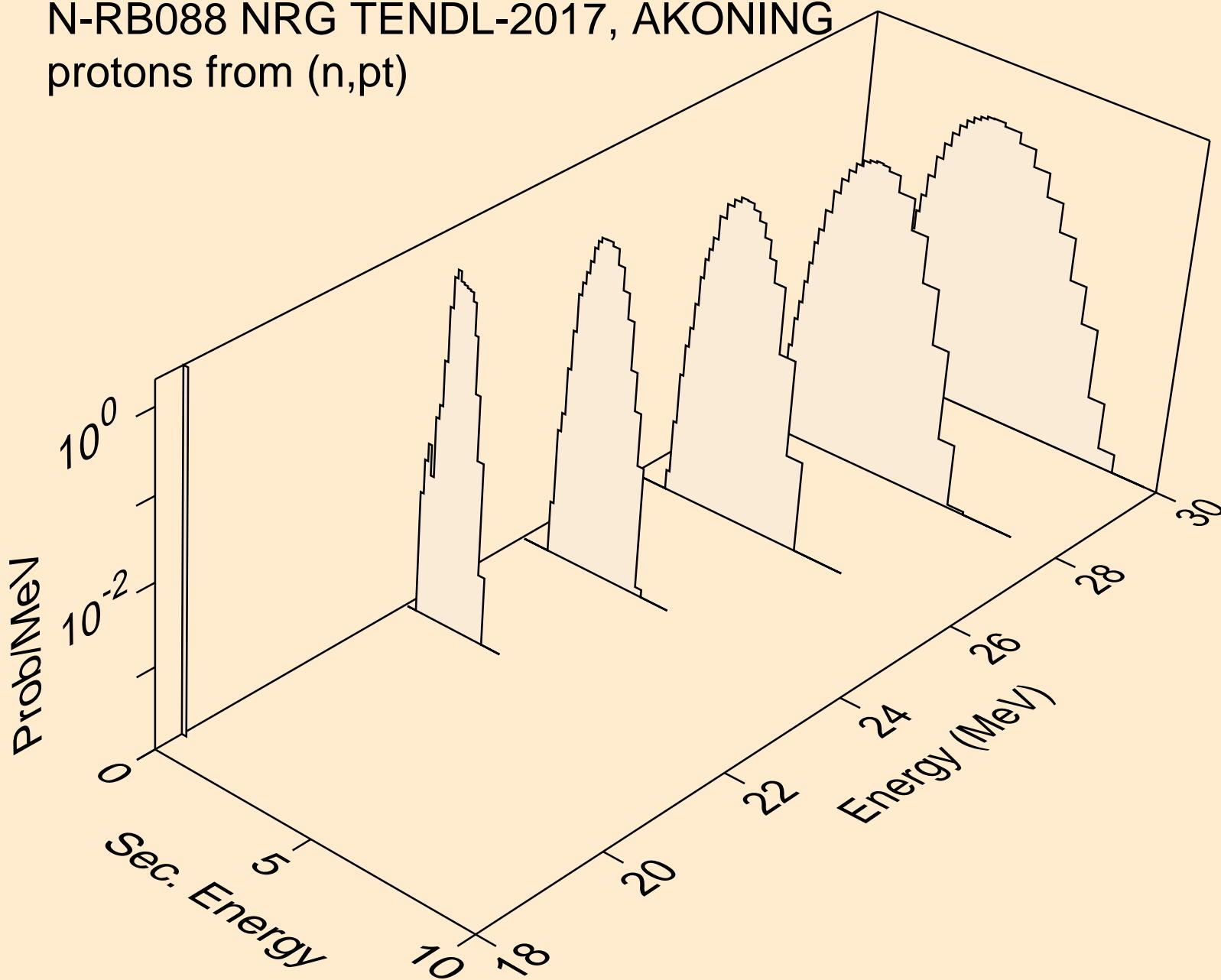
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protons from (n,pa)



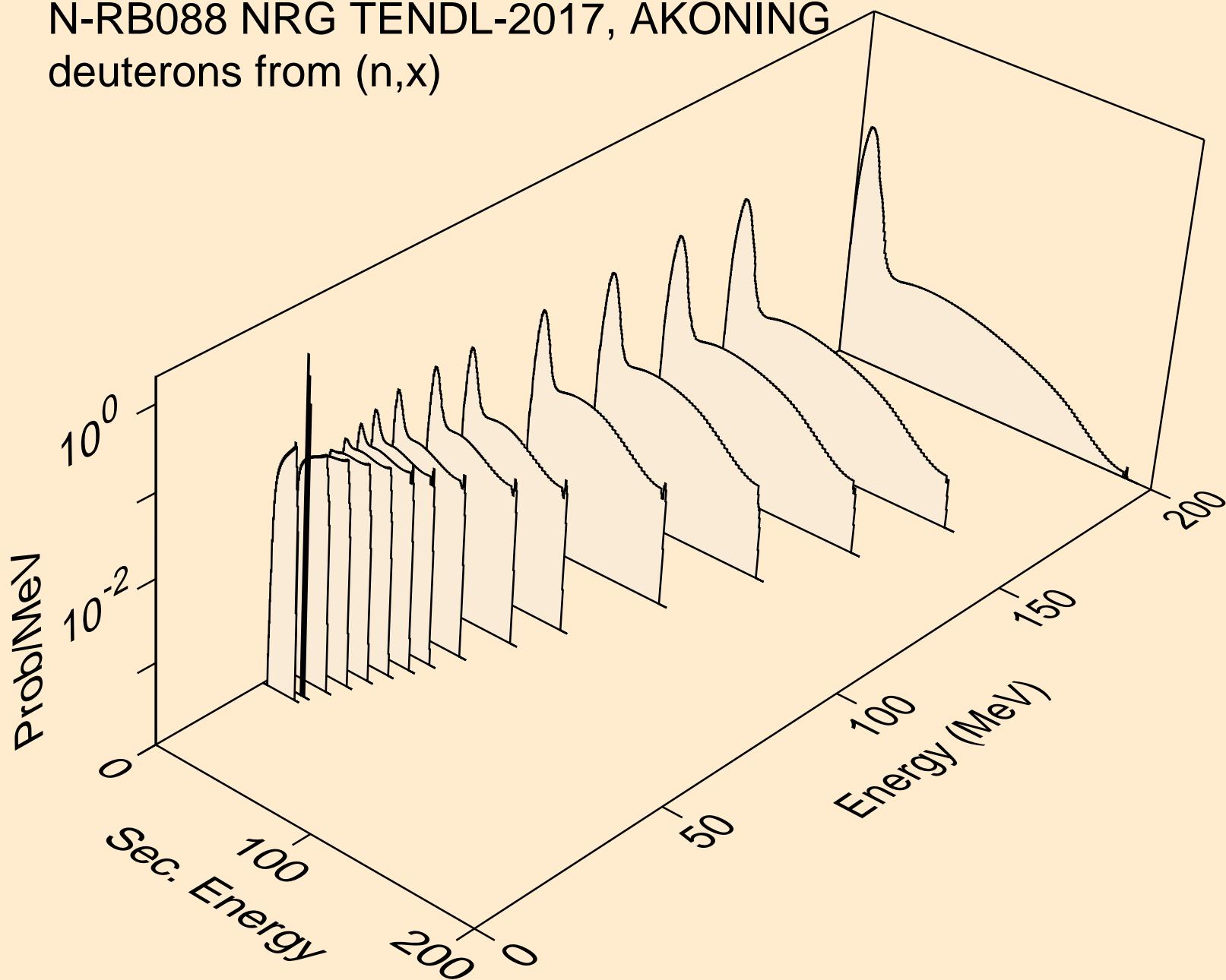
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protons from (n,pd)



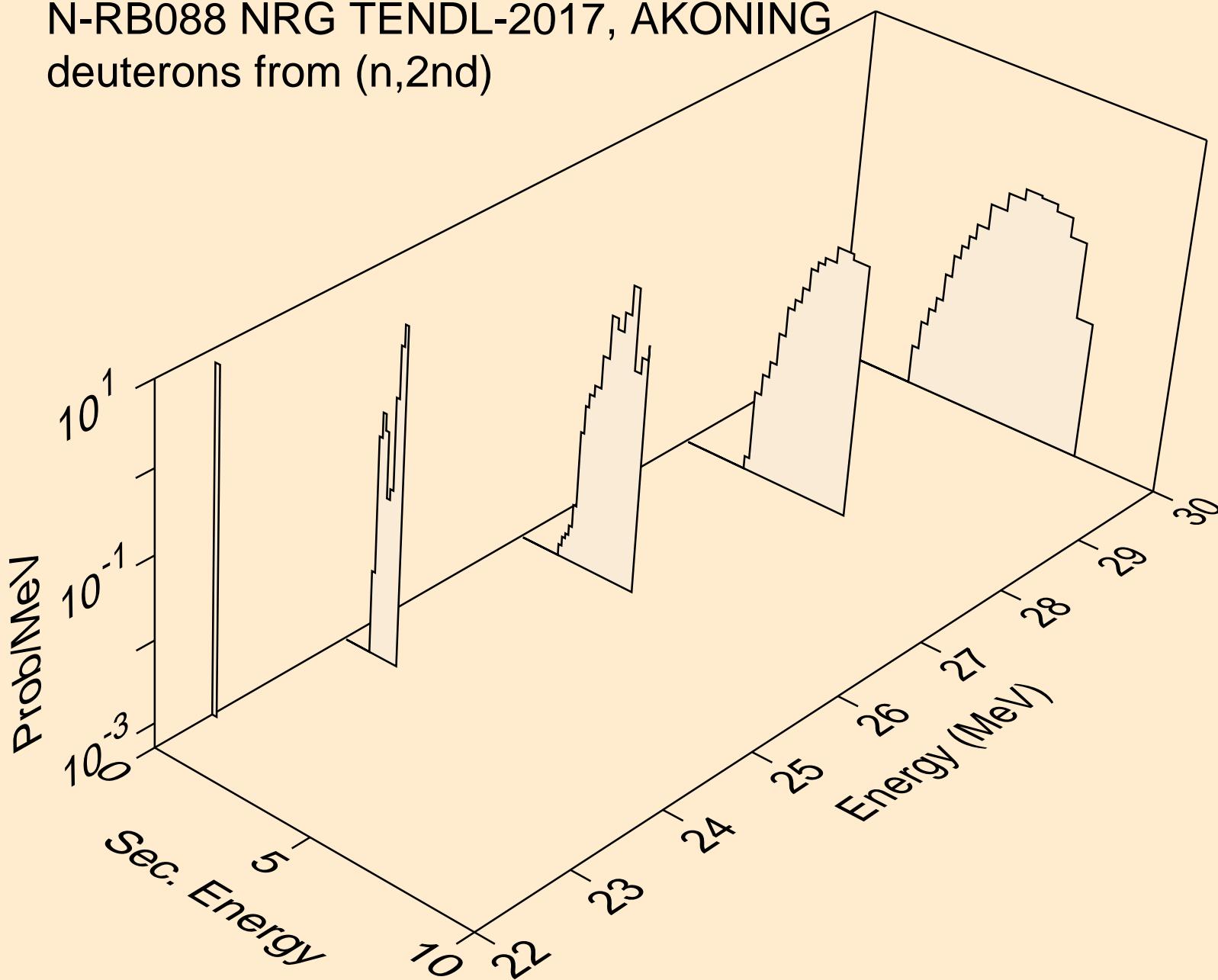
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protons from (n,pt)



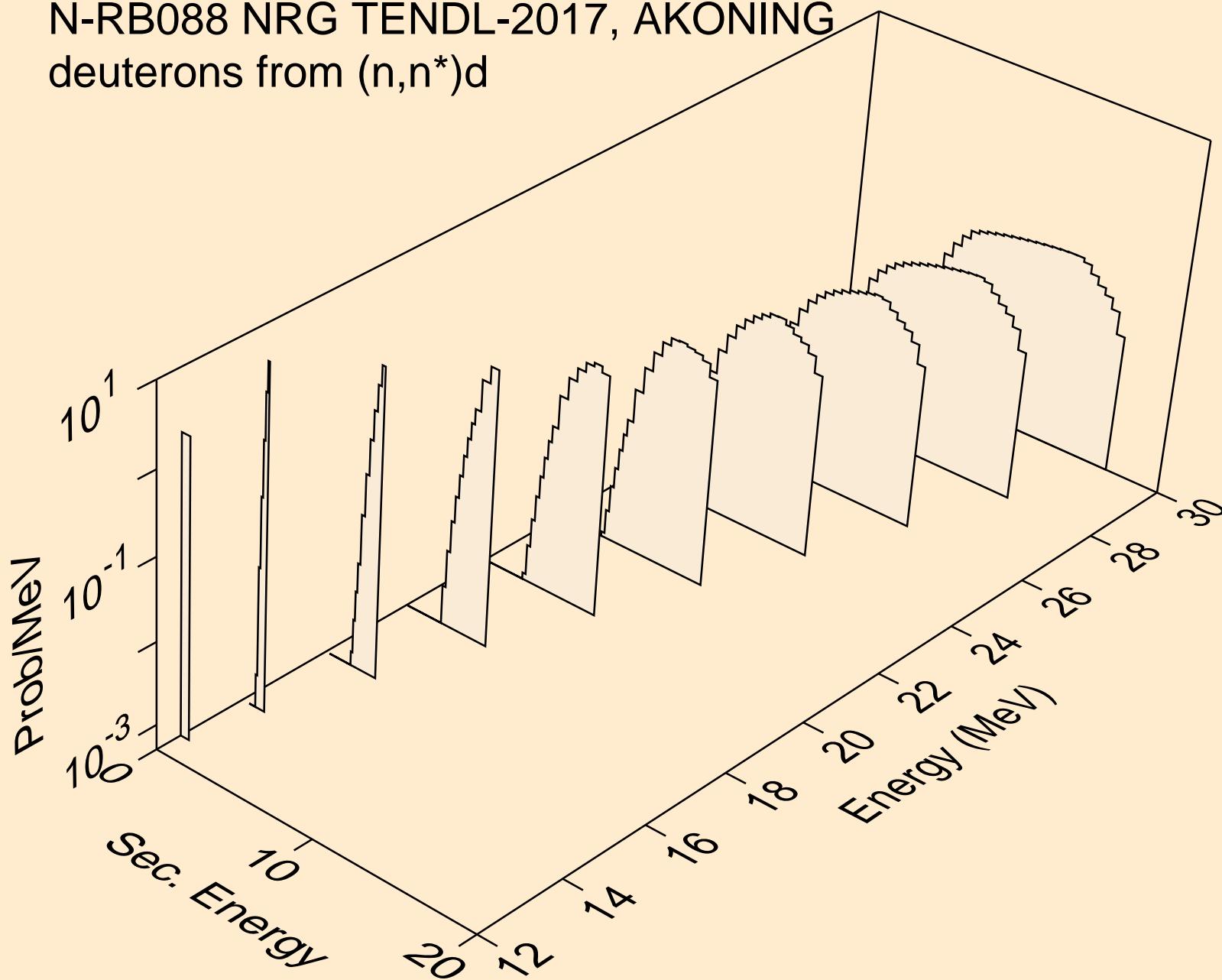
N-RB088 NRG TENDL-2017, AKONING  
deuterons from ( $n, x$ )



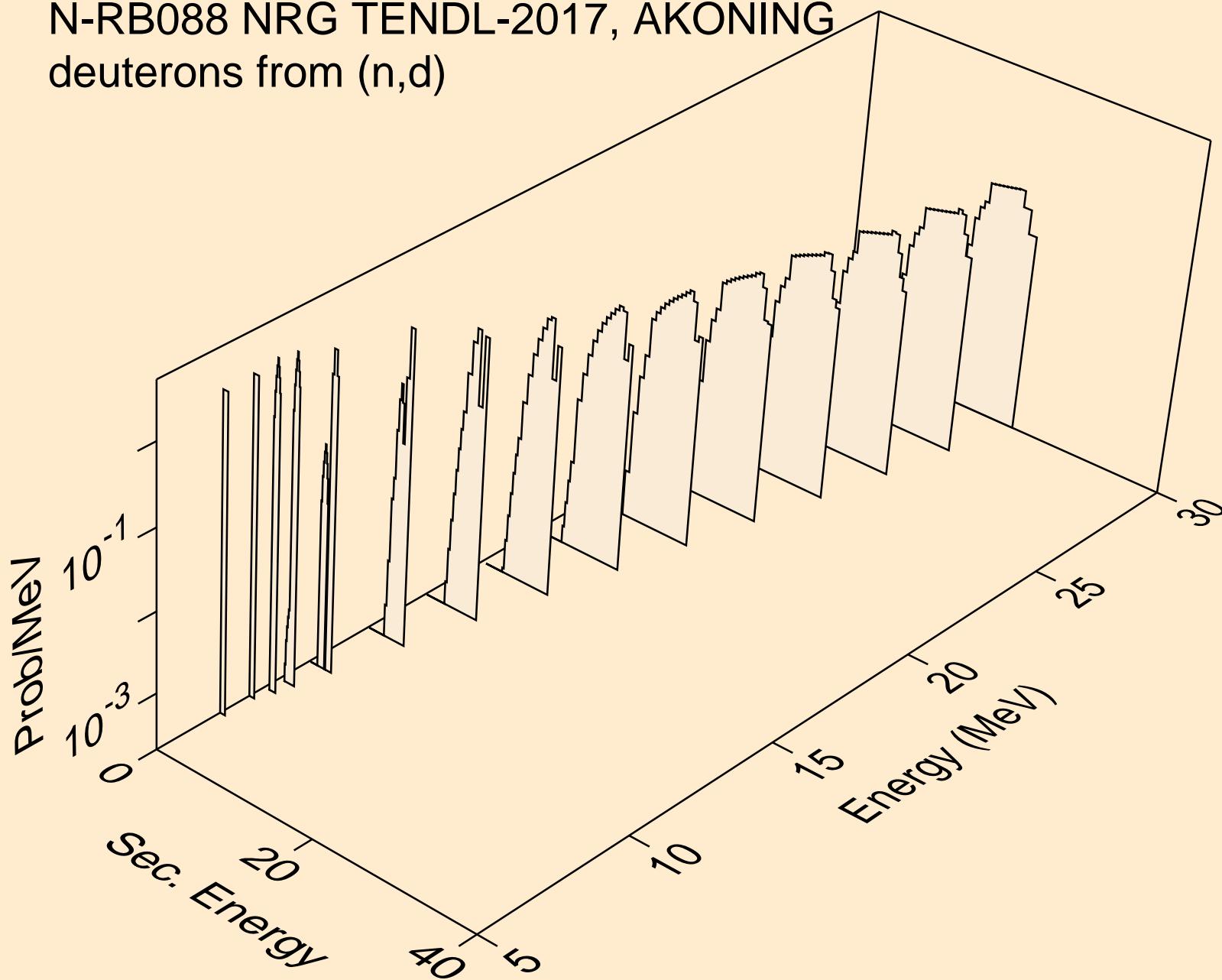
N-RB088 NRG TENDL-2017, AKONING  
deuterons from ( $n, 2nd$ )



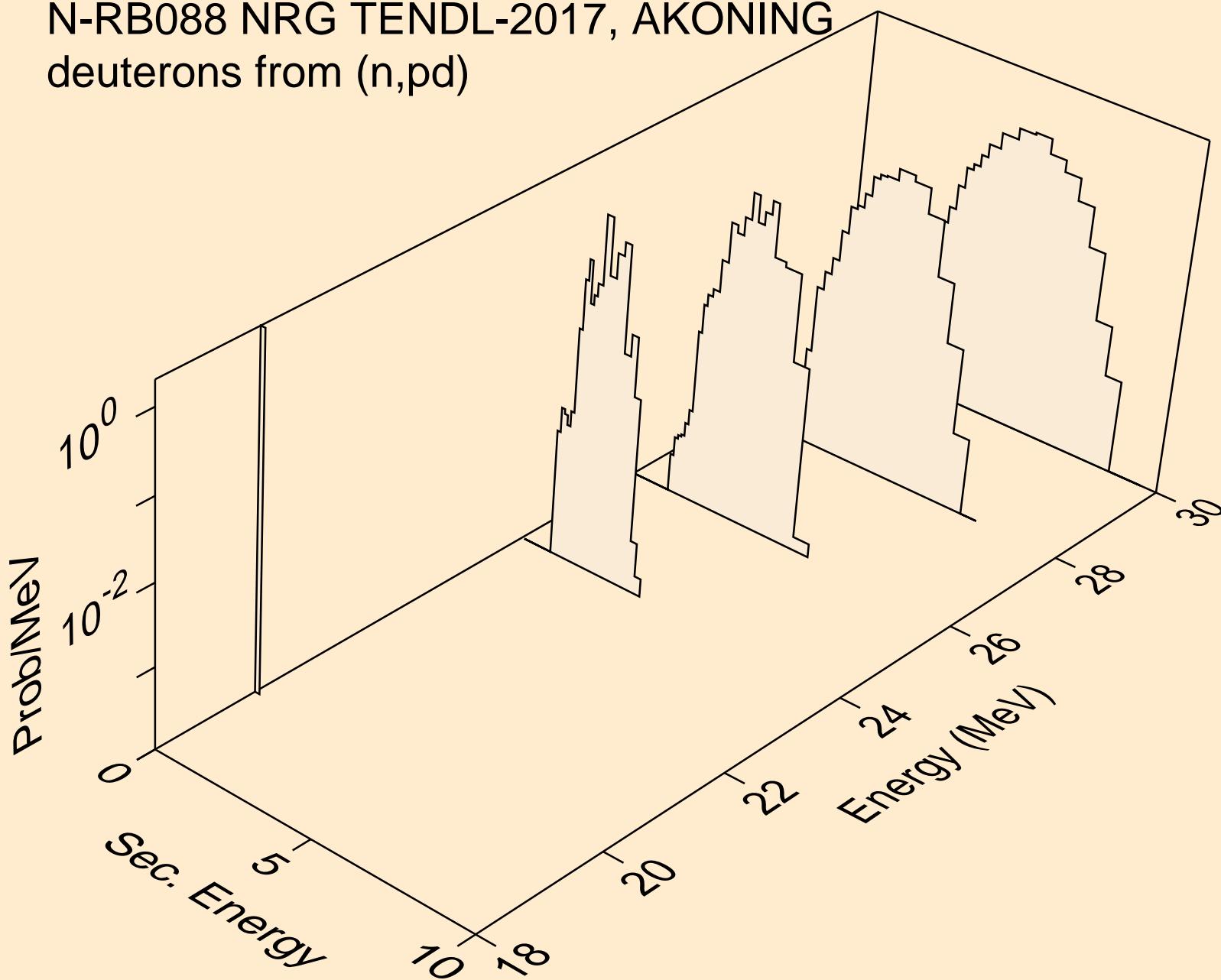
N-RB088 NRG TENDL-2017, AKONING  
deuterons from  $(n,n^*)d$



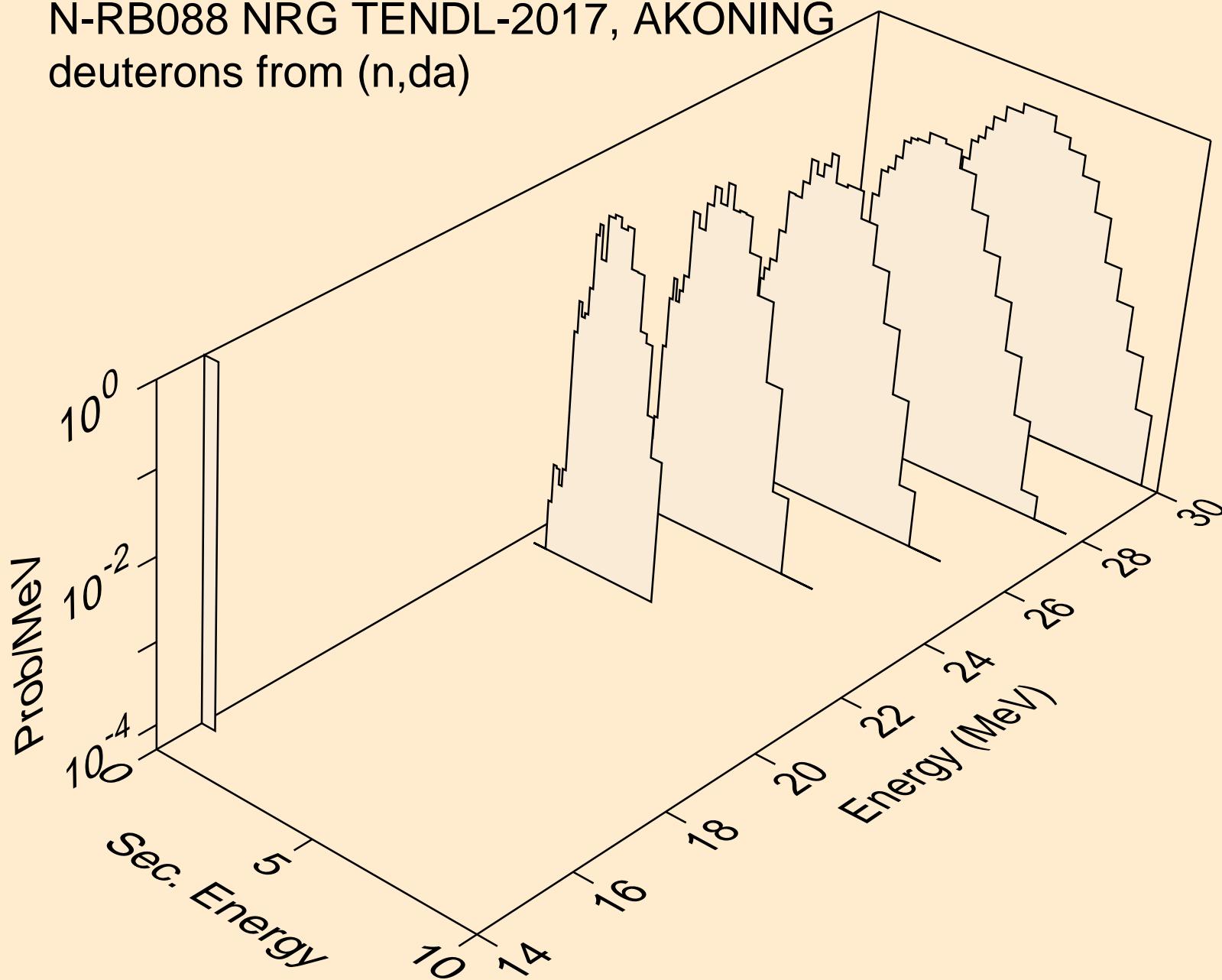
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deuterons from ( $n,d$ )



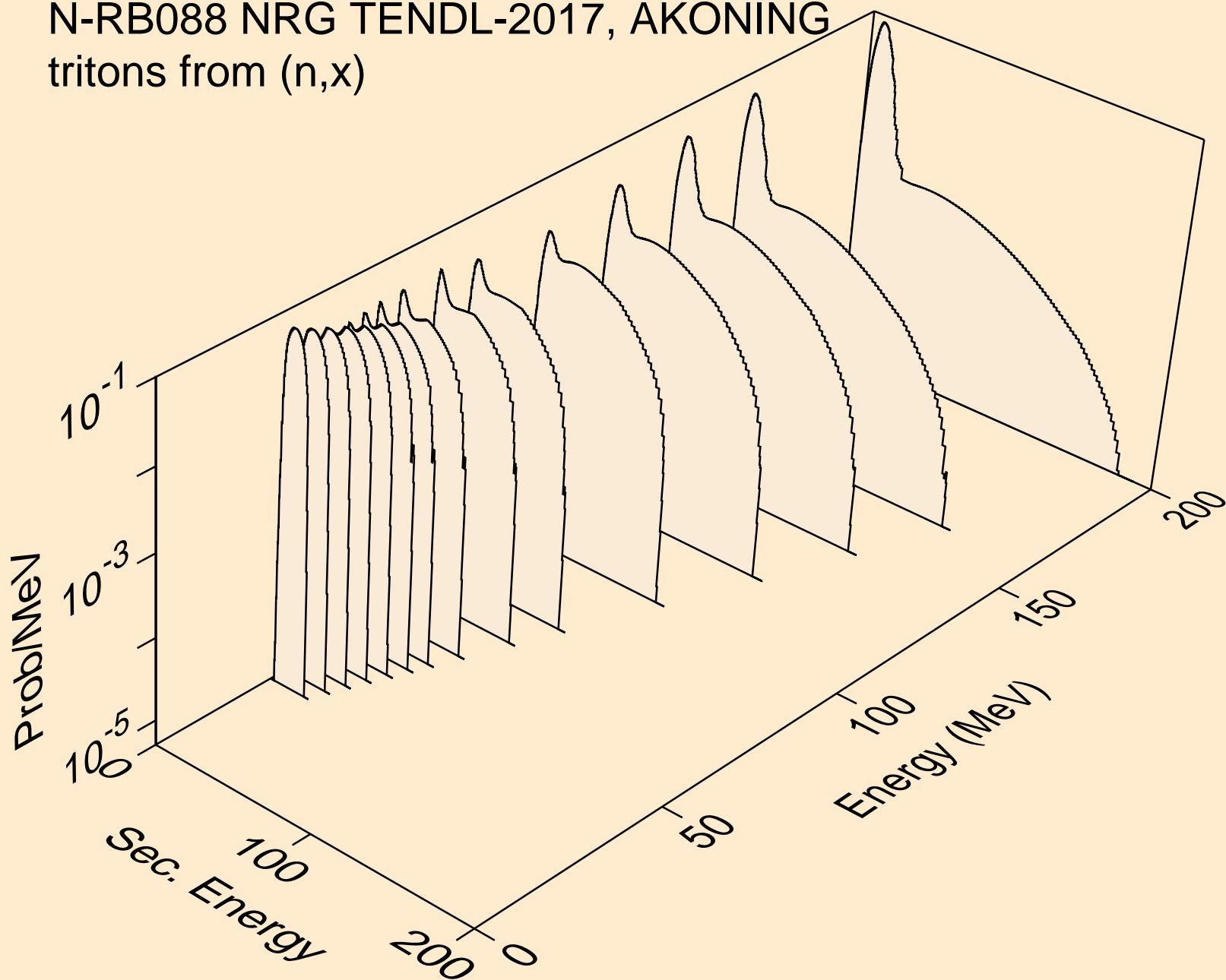
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deuterons from (n,pd)



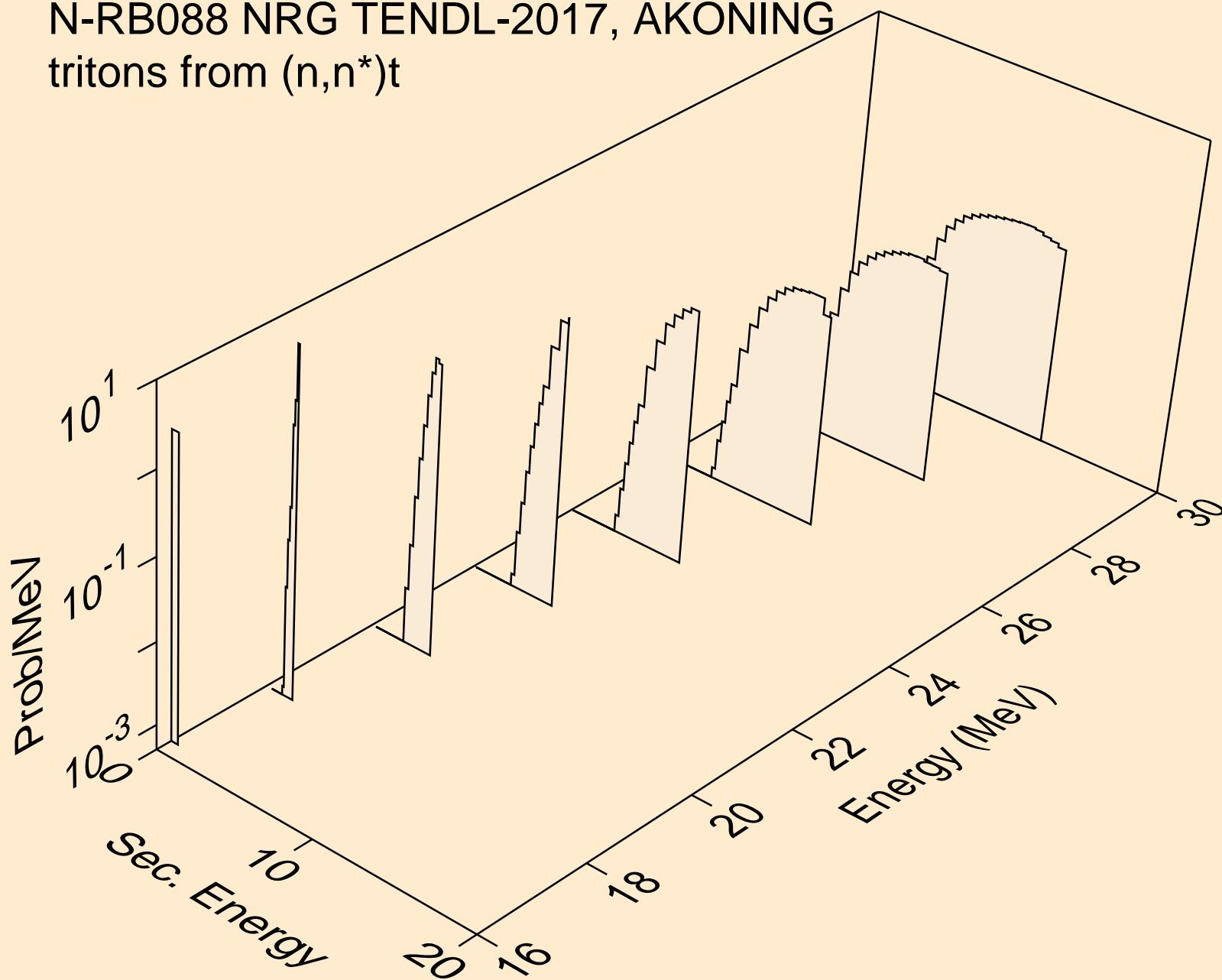
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deuterons from (n,da)



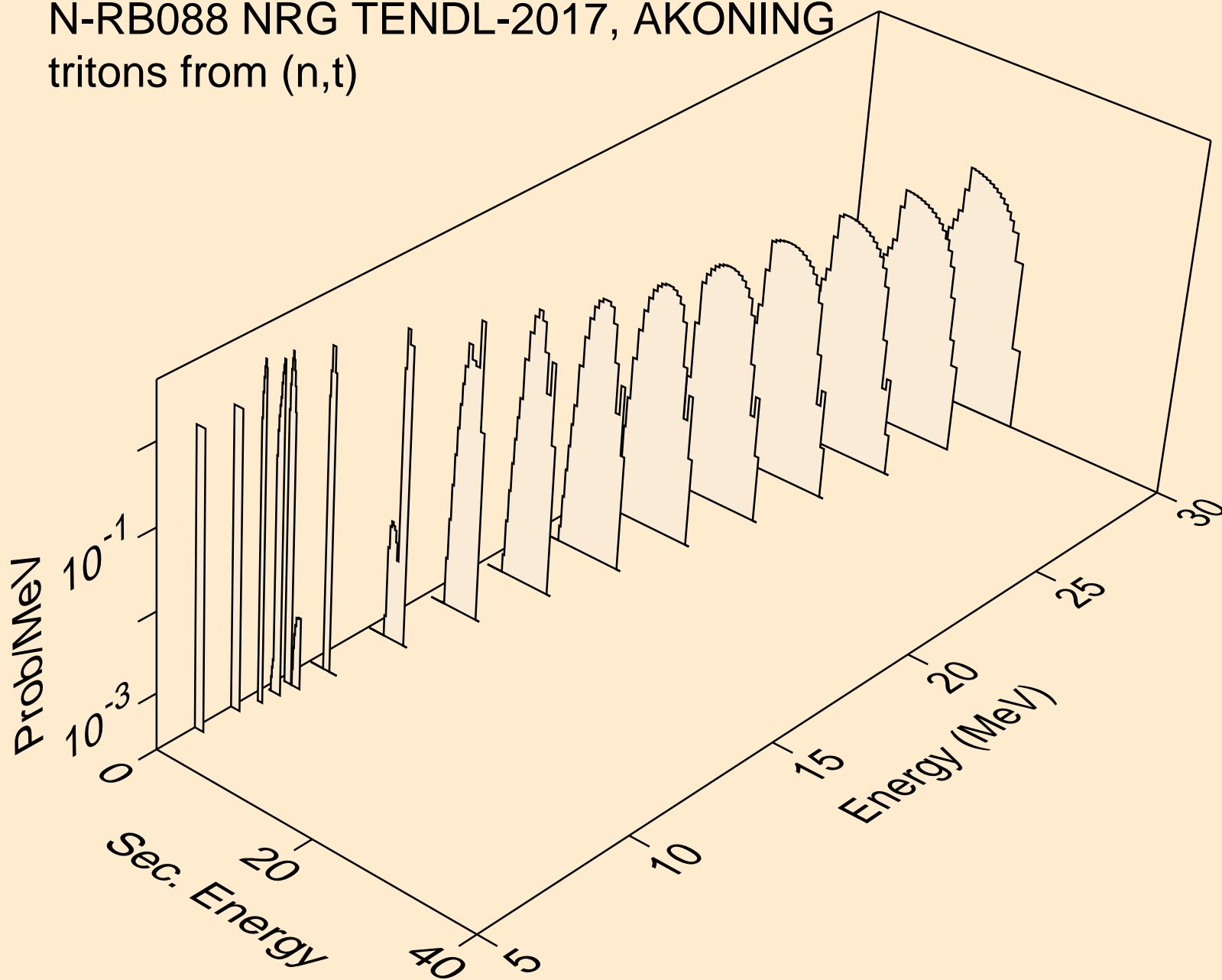
N-RB088 NRG TENDL-2017, AKONING  
tritons from ( $n,x$ )



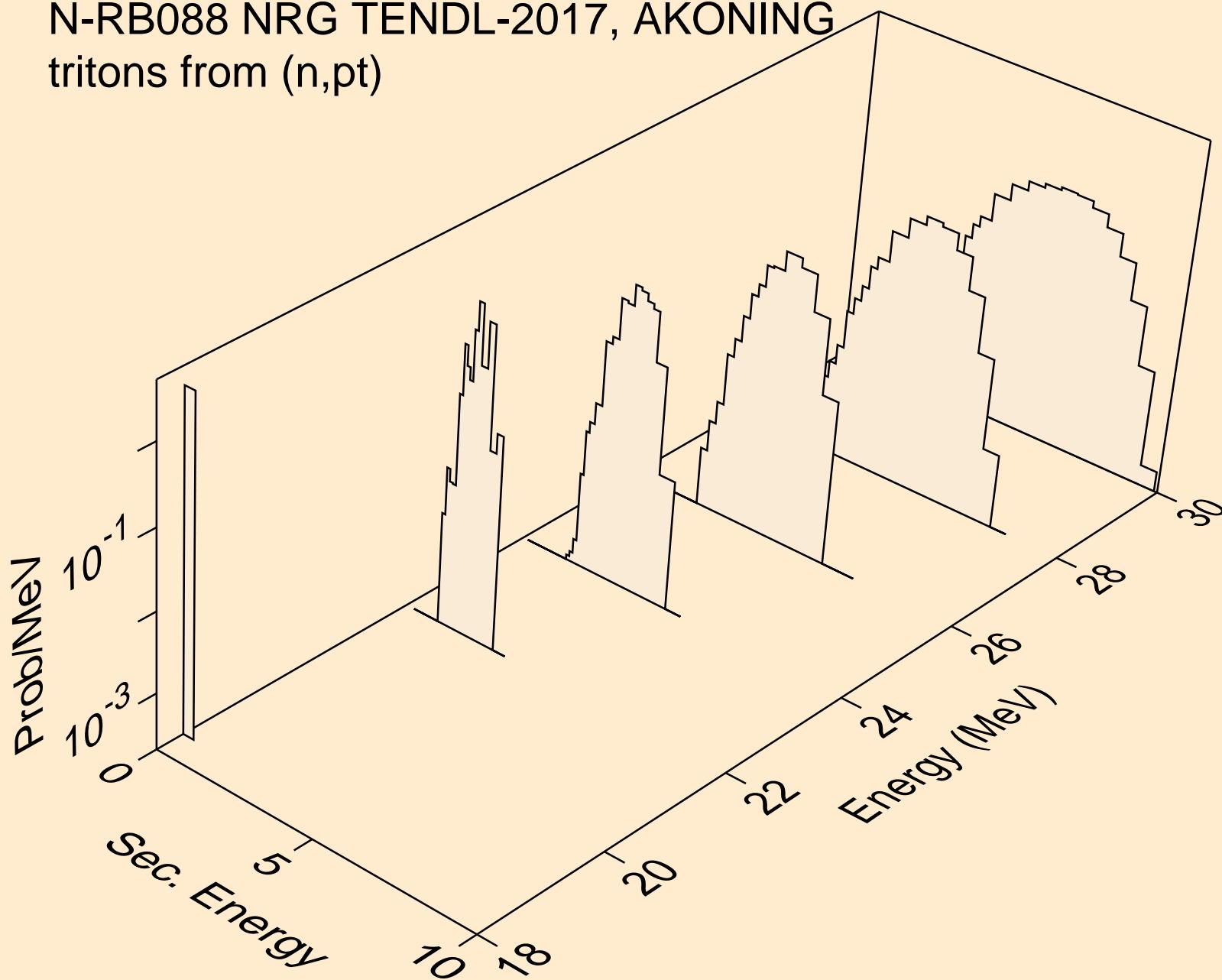
N-RB088 NRG TENDL-2017, AKONING  
tritons from  $(n,n^*)t$



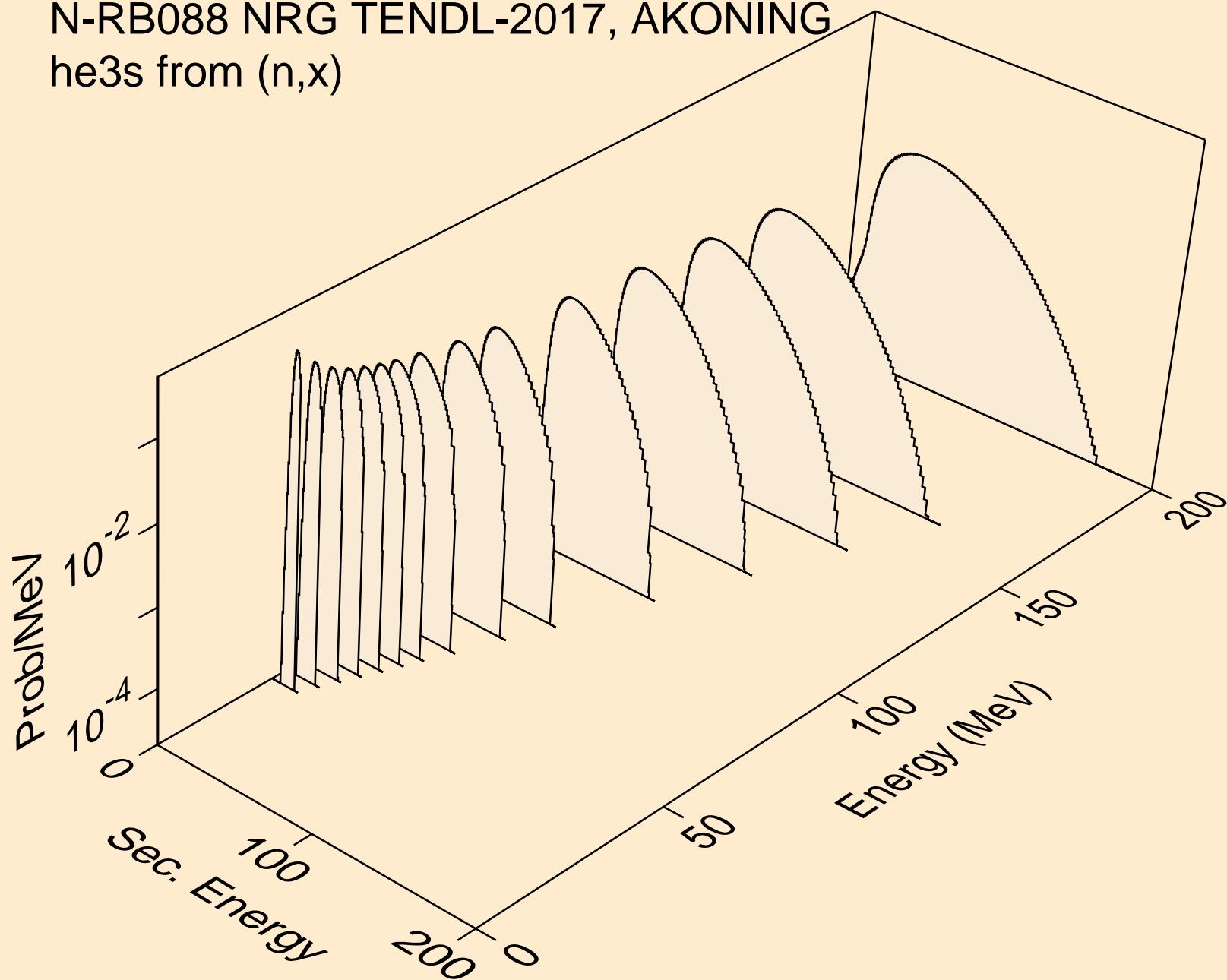
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tritons from (n,t)



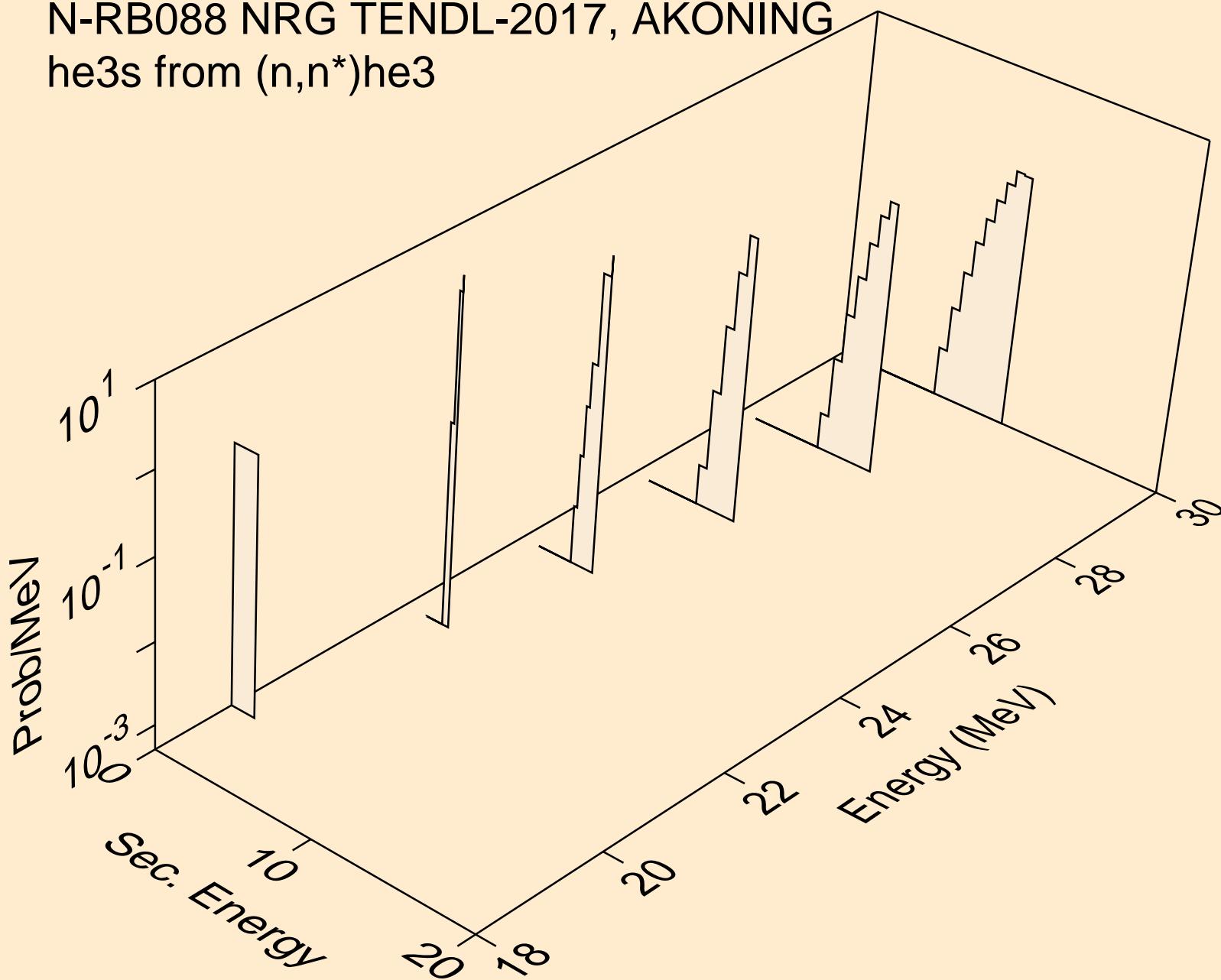
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tritons from (n,pt)



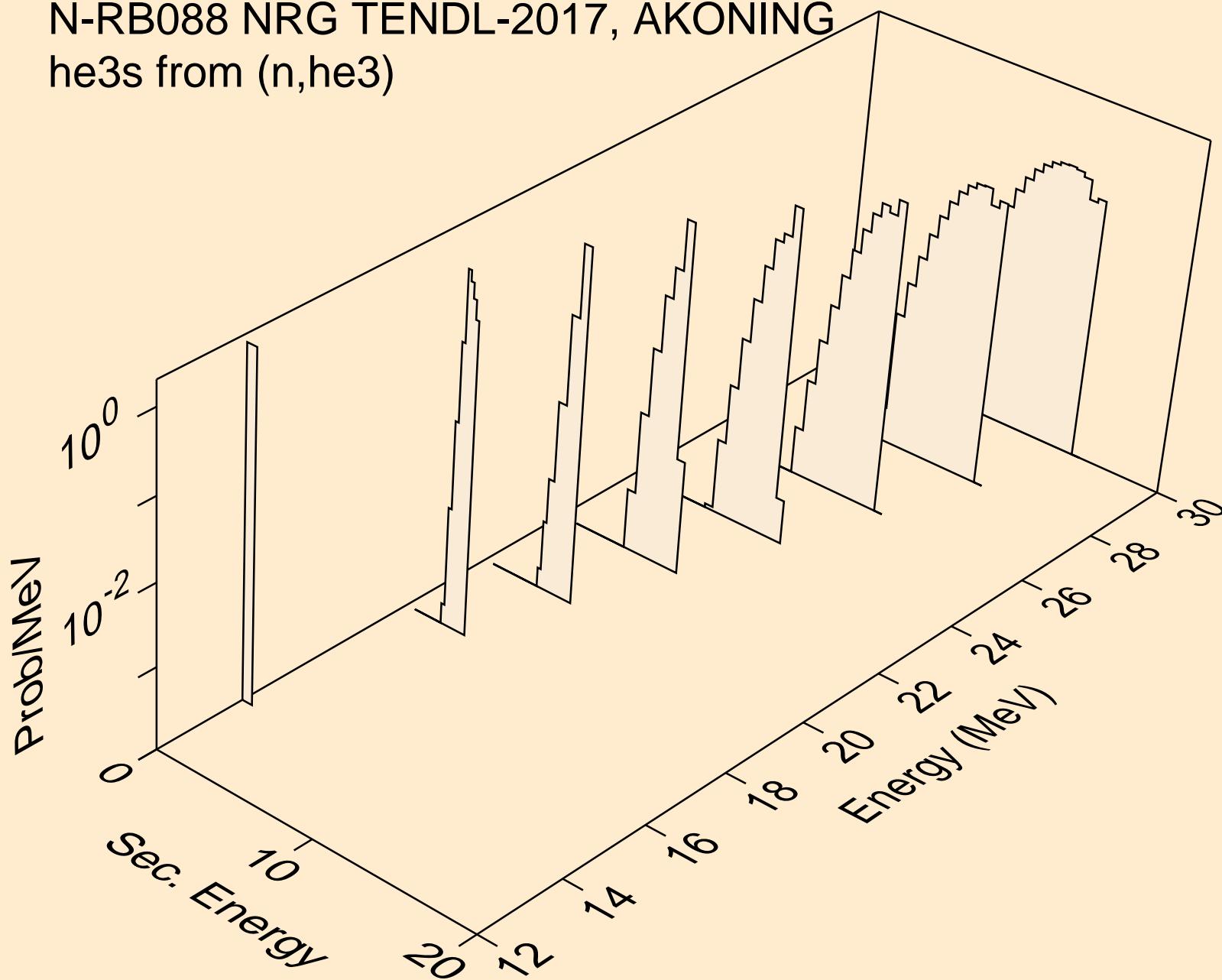
N-RB088 NRG TENDL-2017, AKONING  
he3s from (n,x)



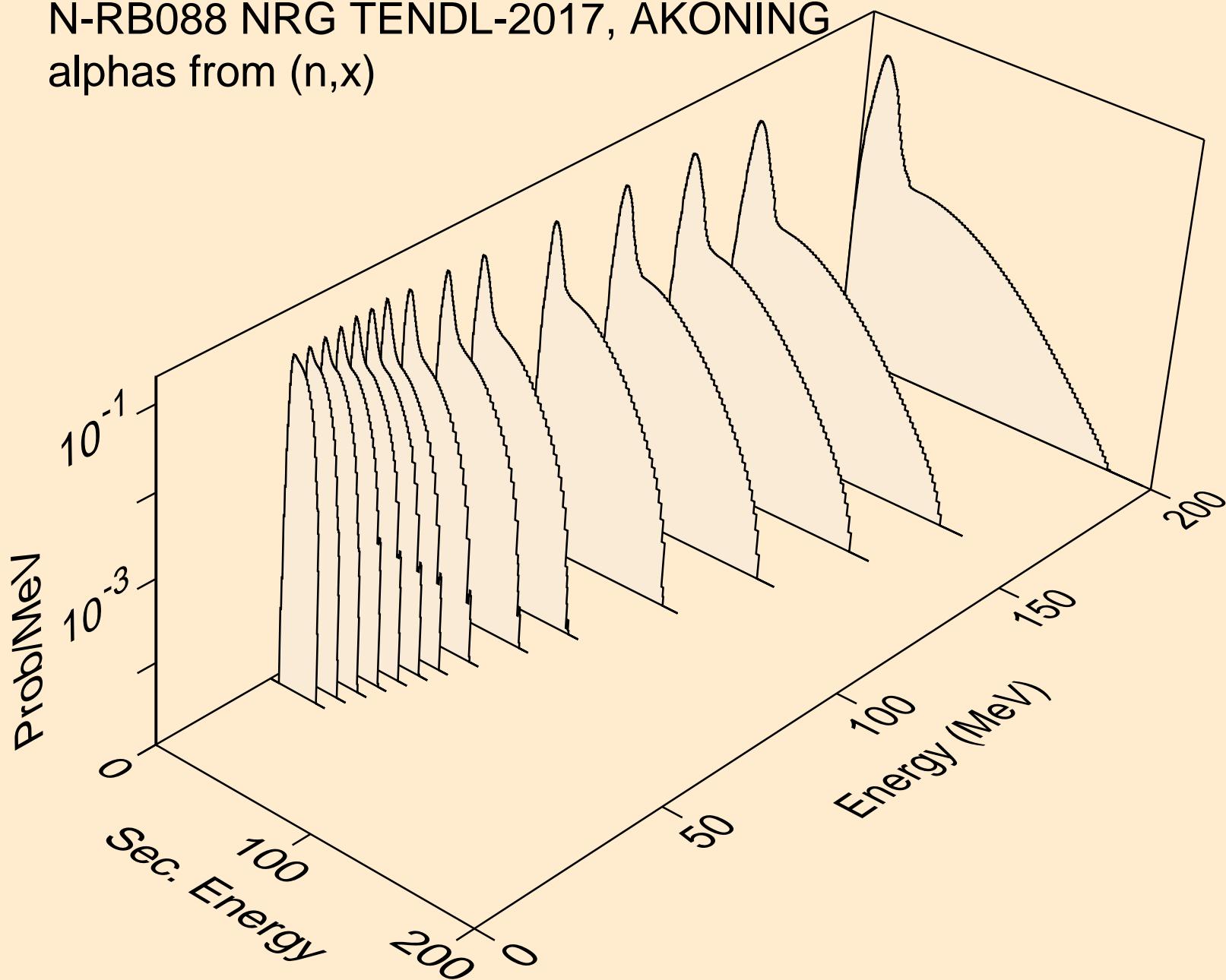
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he3s from  $(n,n^*)\text{he3}$



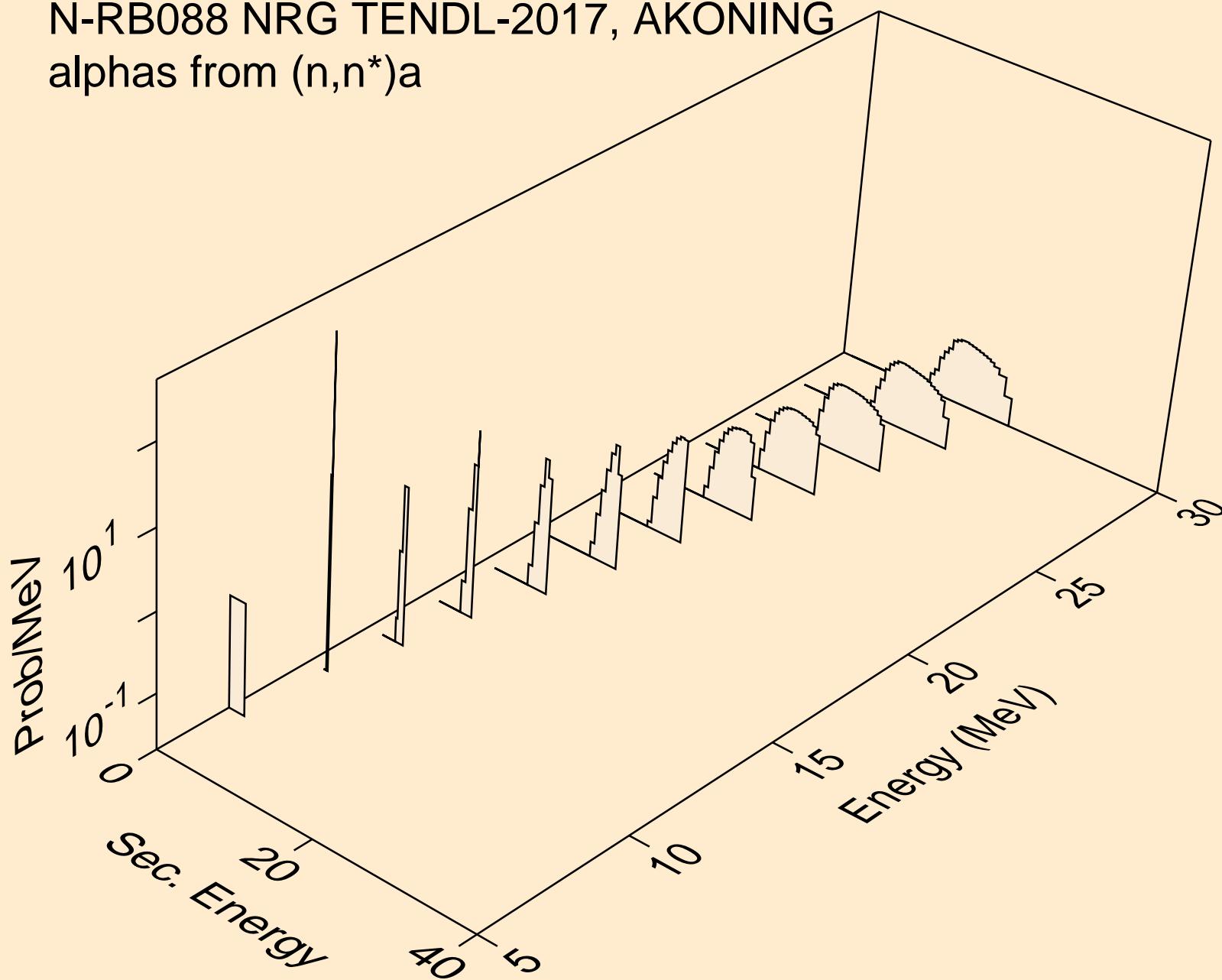
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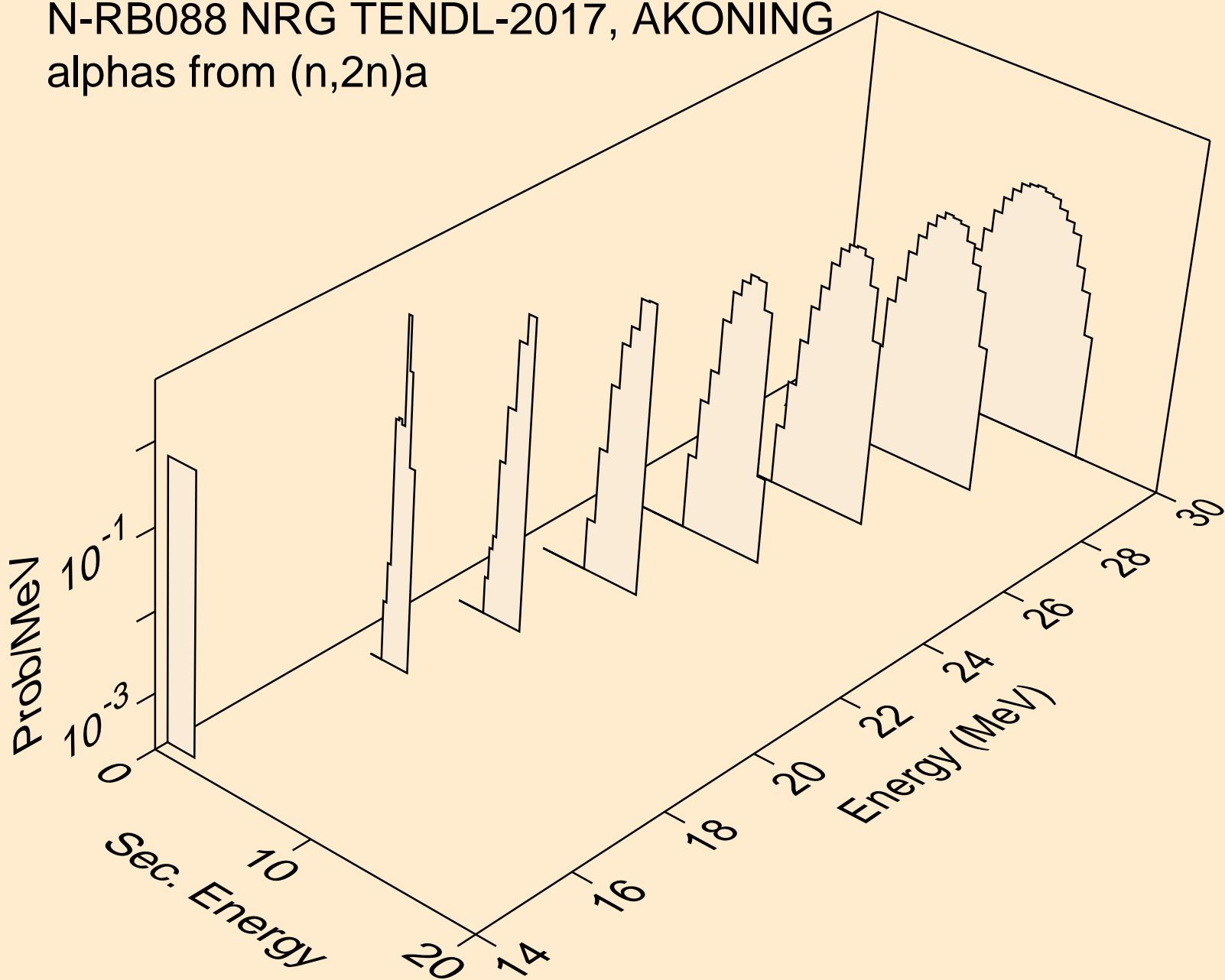
N-RB088 NRG TENDL-2017, AKONING  
alphas from (n,x)



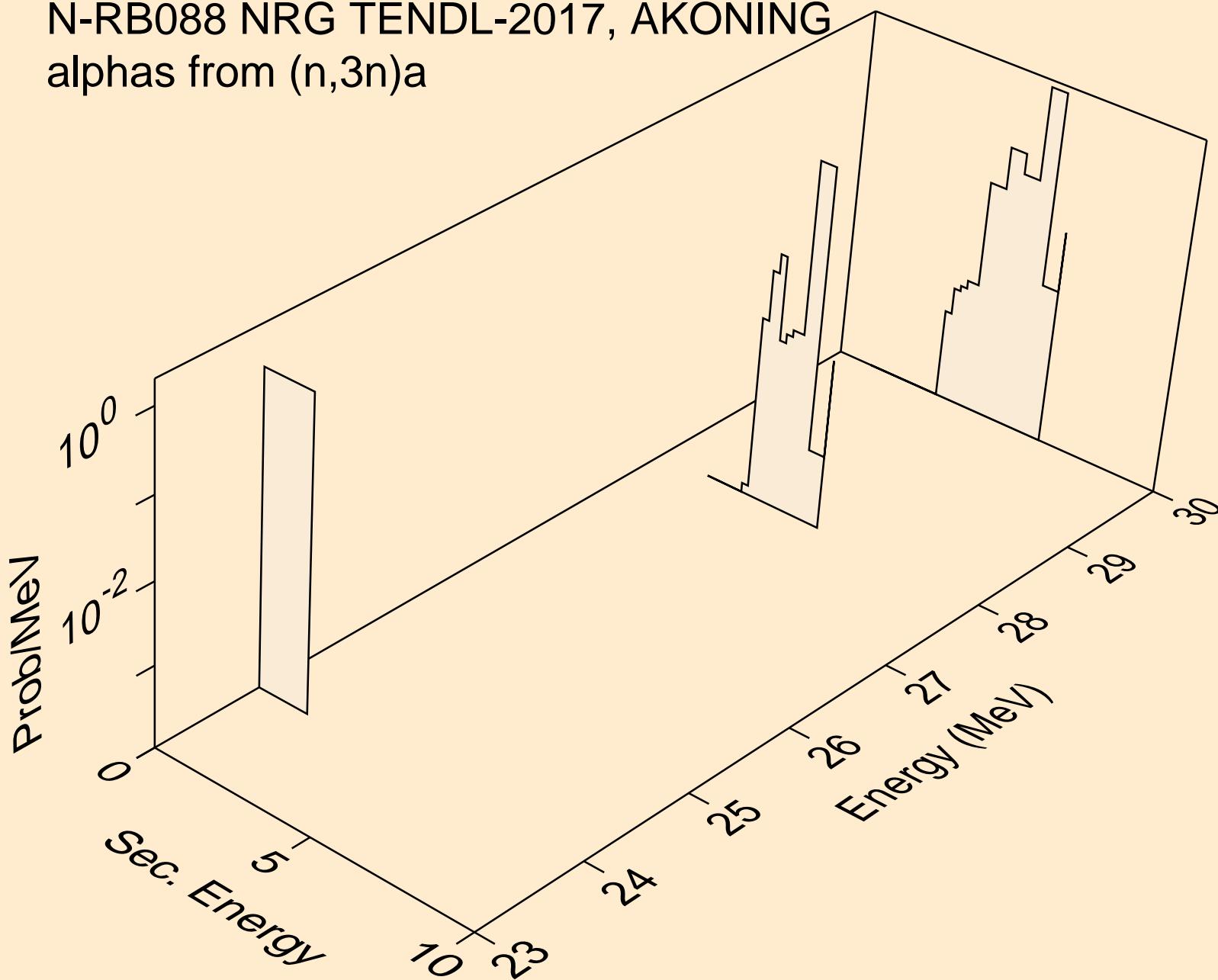
N-RB088 NRG TENDL-2017, AKONING  
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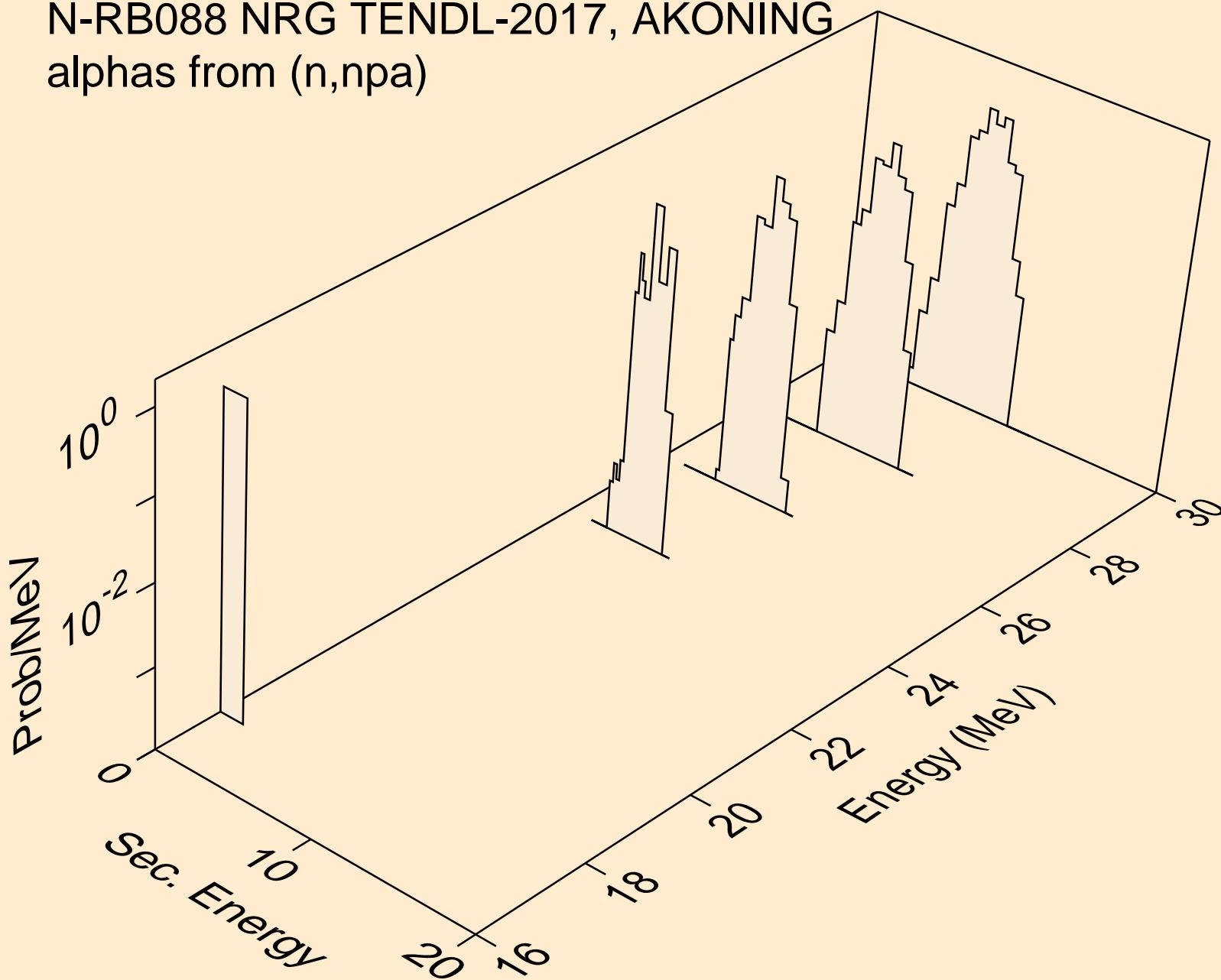
N-RB088 NRG TENDL-2017, AKONING  
alphas from ( $n,2n$ )a



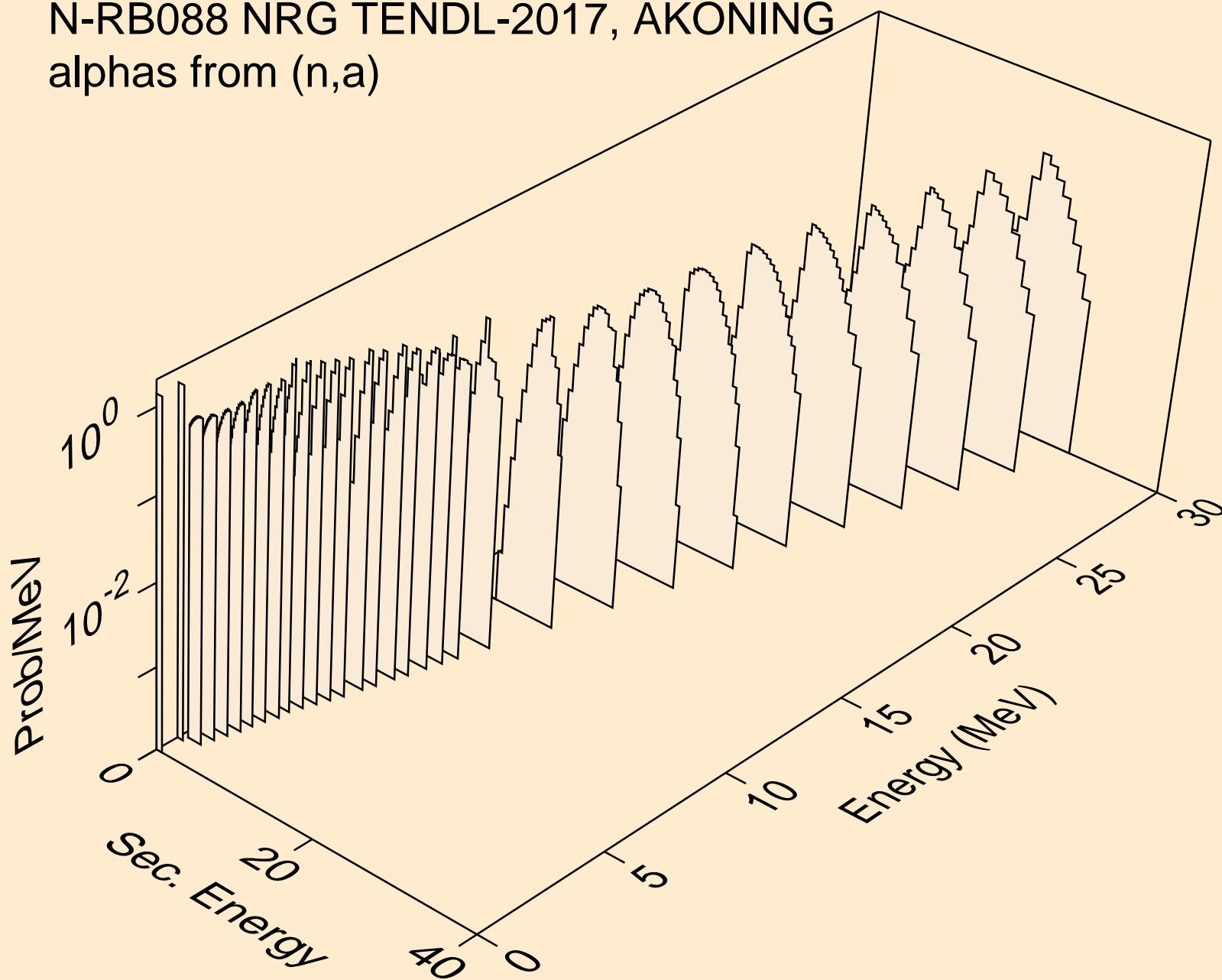
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alphas from  $(n,3n)a$



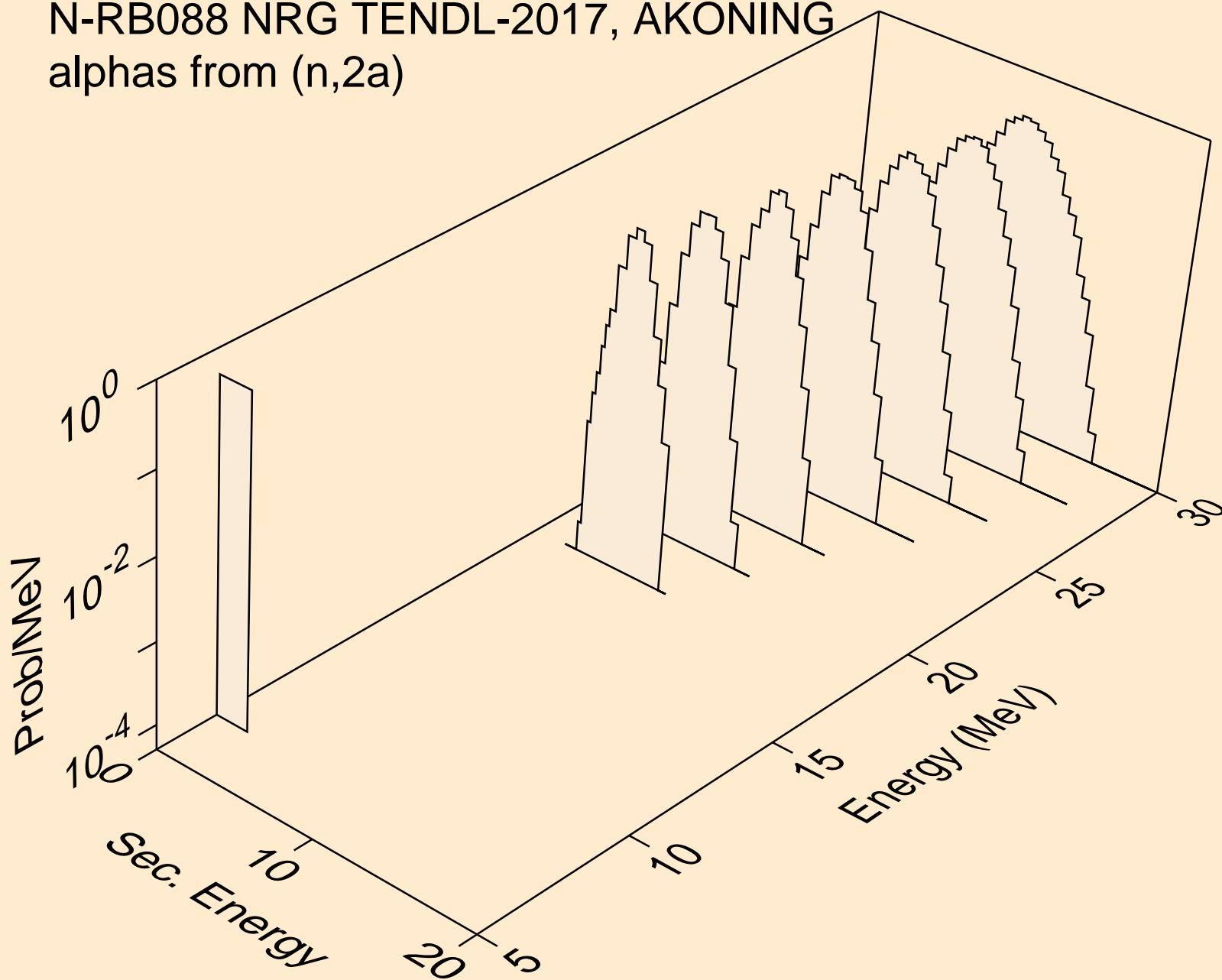
N-RB088 NRG TENDL-2017, AKONING  
alphas from (n,npa)



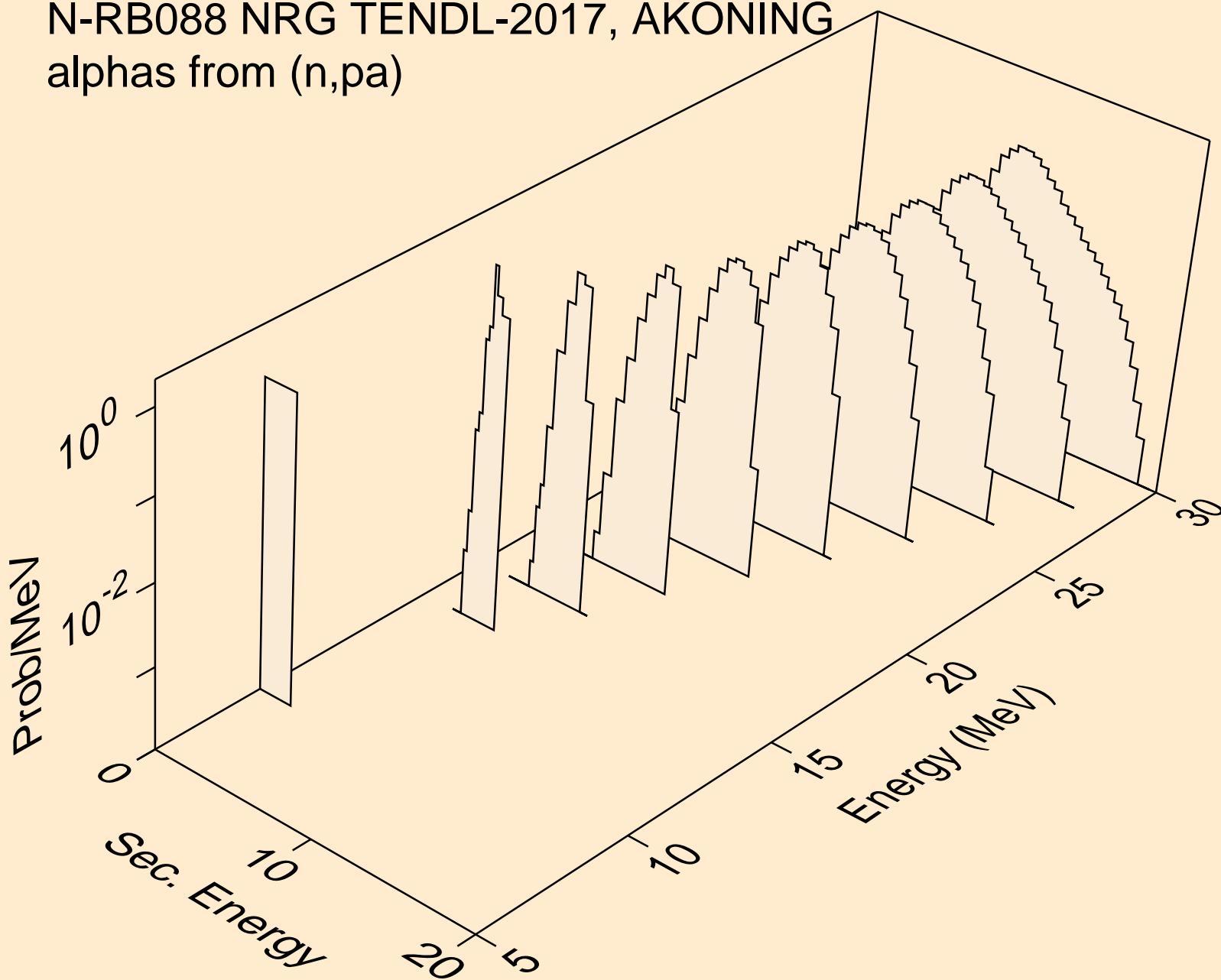
N-RB088 NRG TENDL-2017, AKONING  
alphas from (n,a)



N-RB088 NRG TENDL-2017, AKONING  
alphas from (n,2a)



N-RB088 NRG TENDL-2017, AKONING  
alphas from (n,pa)



N-RB088 NRG TENDL-2017, AKONING  
alphas from (n,da)

