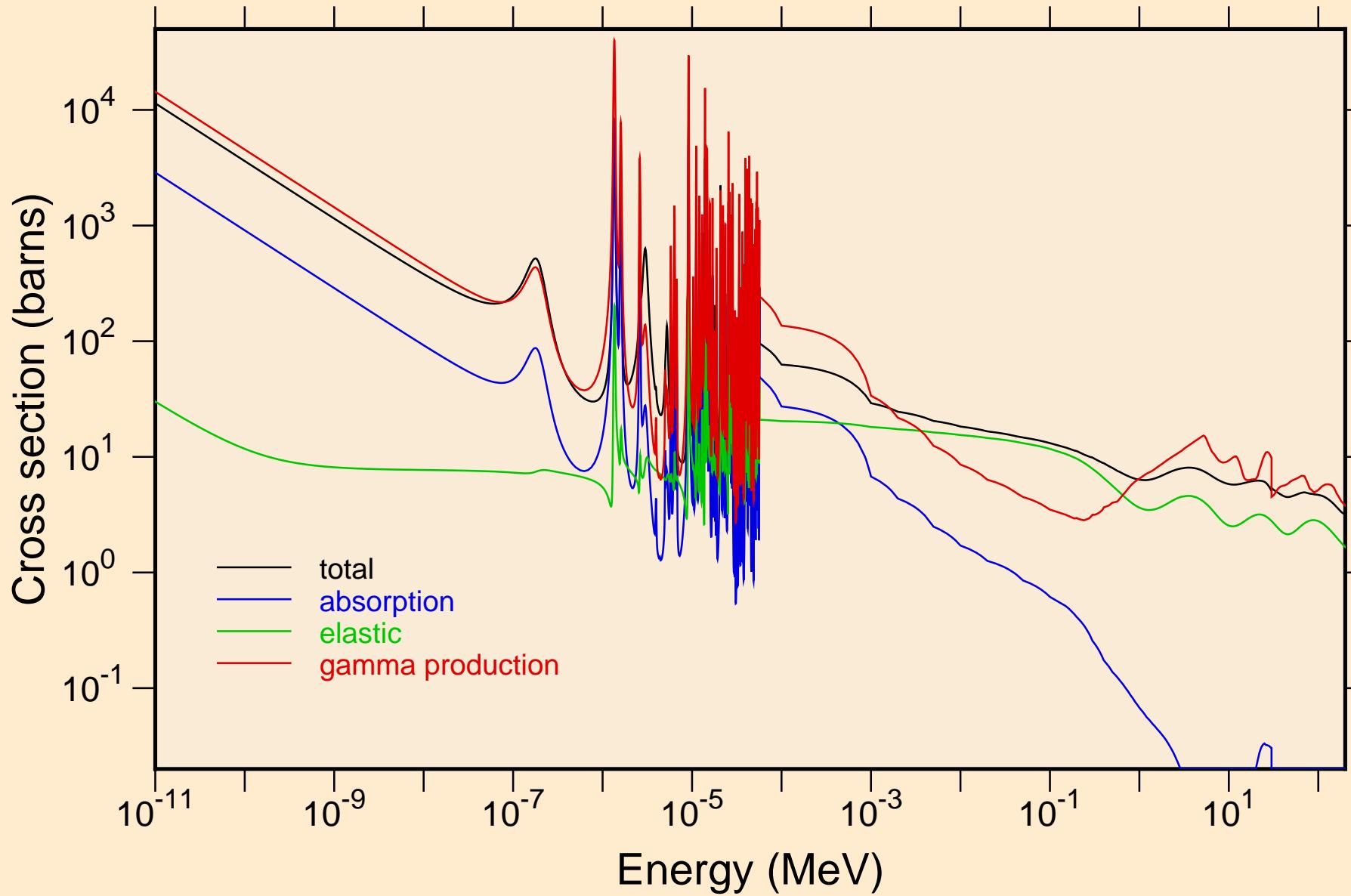
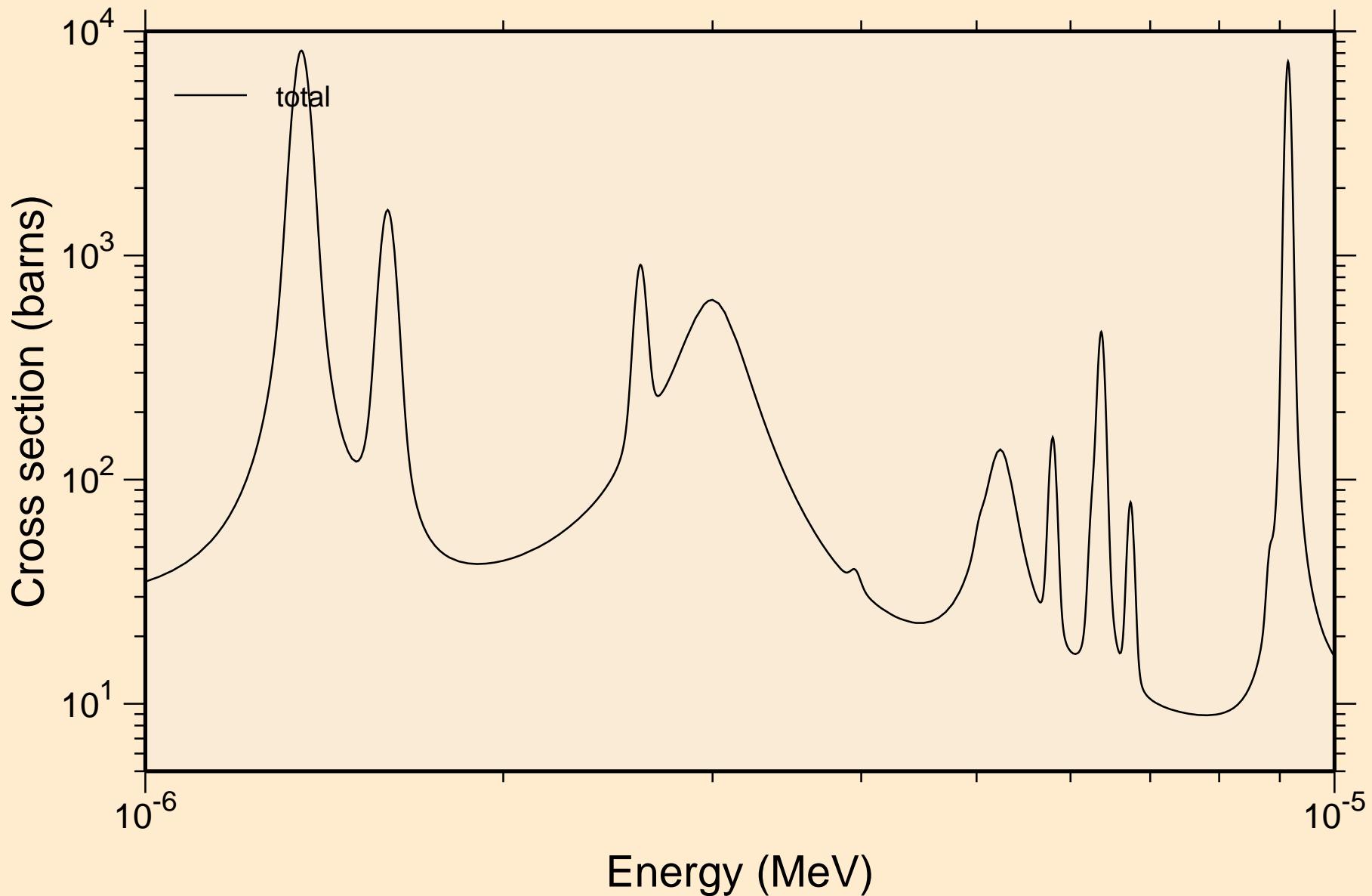


# N-TH231 NRG TENDL-2017, AKONING

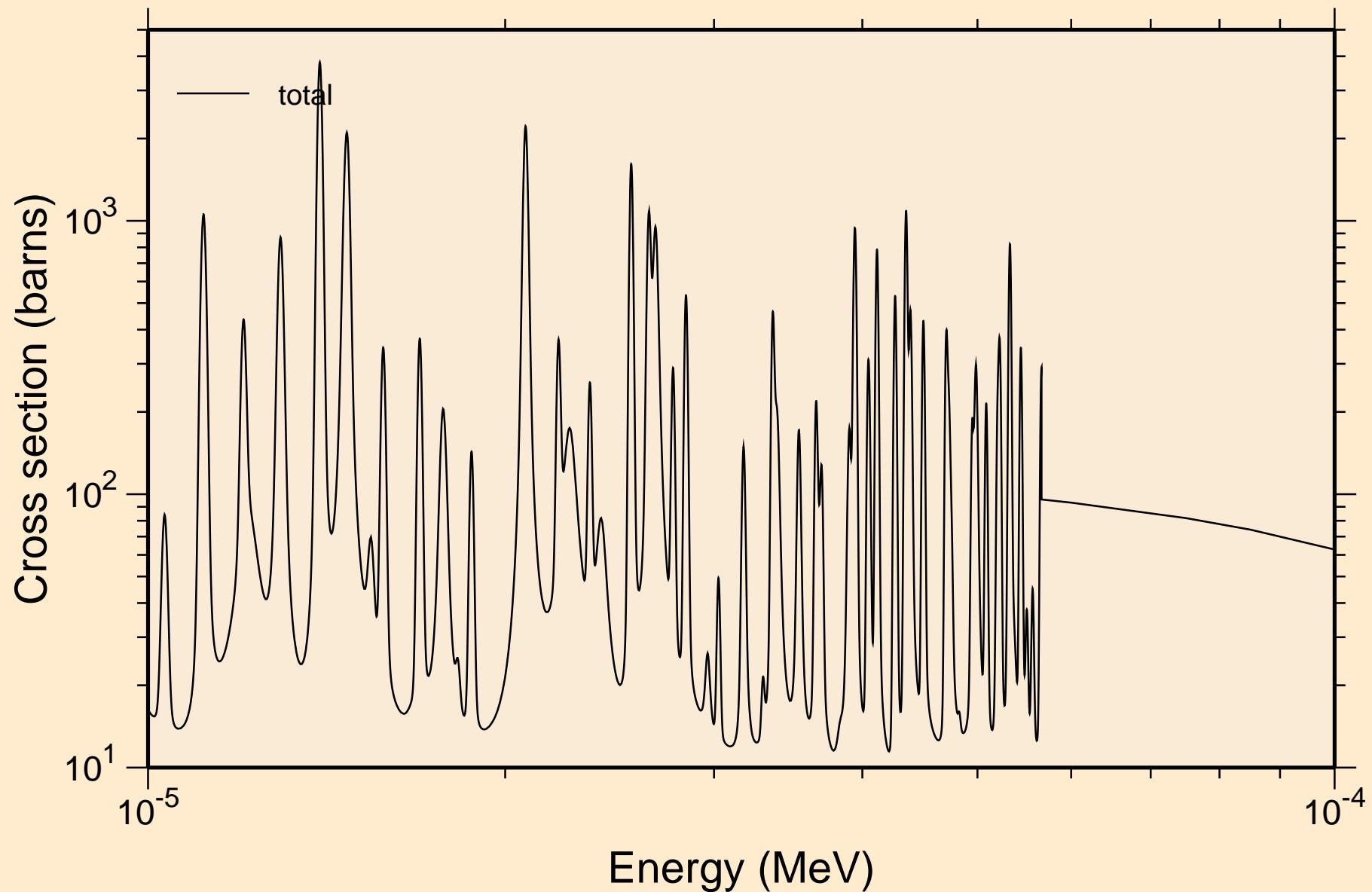
## Principal cross sections



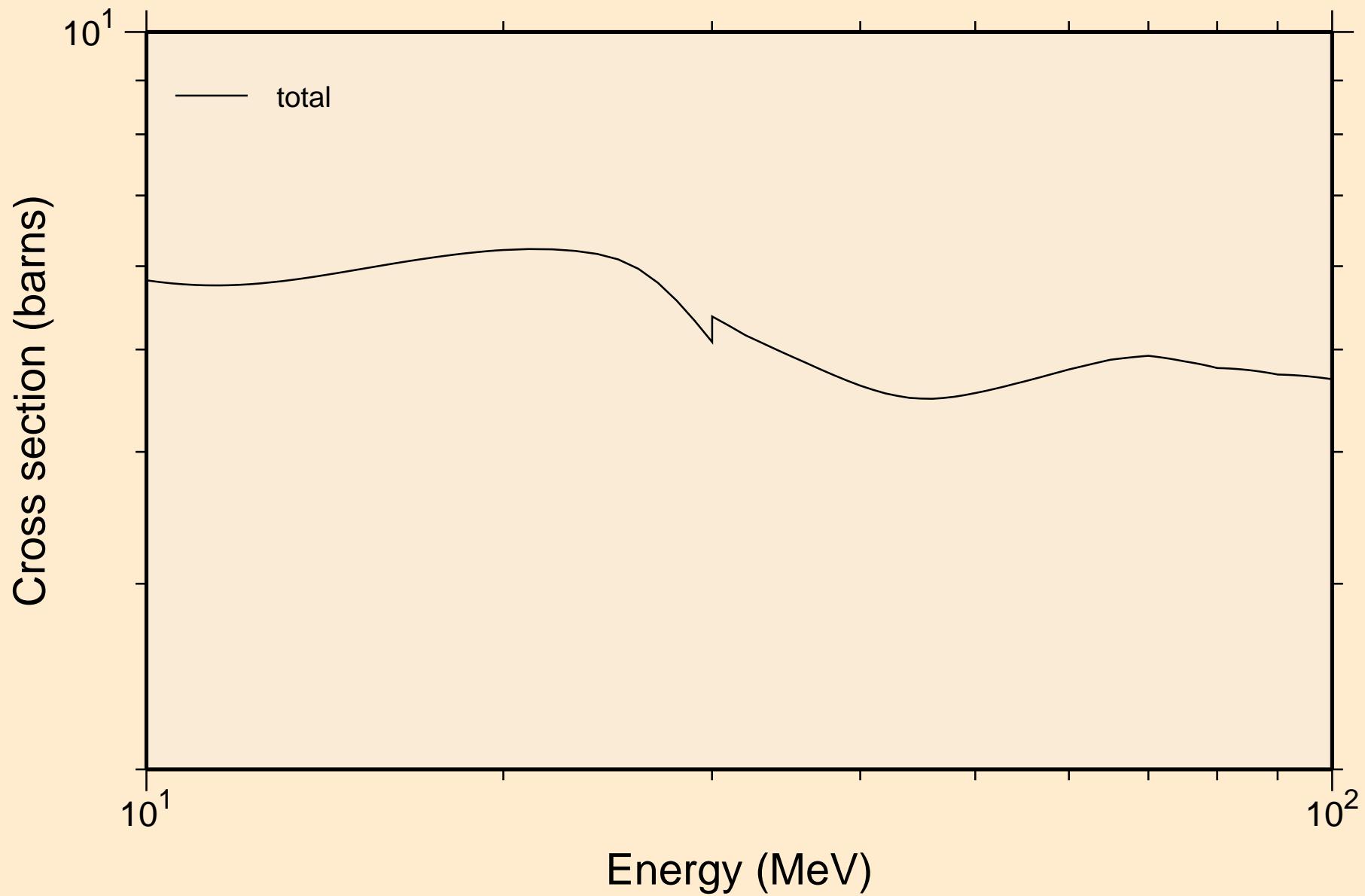
N-TH231 NRG TENDL-2017, AKONING  
resonance total cross section



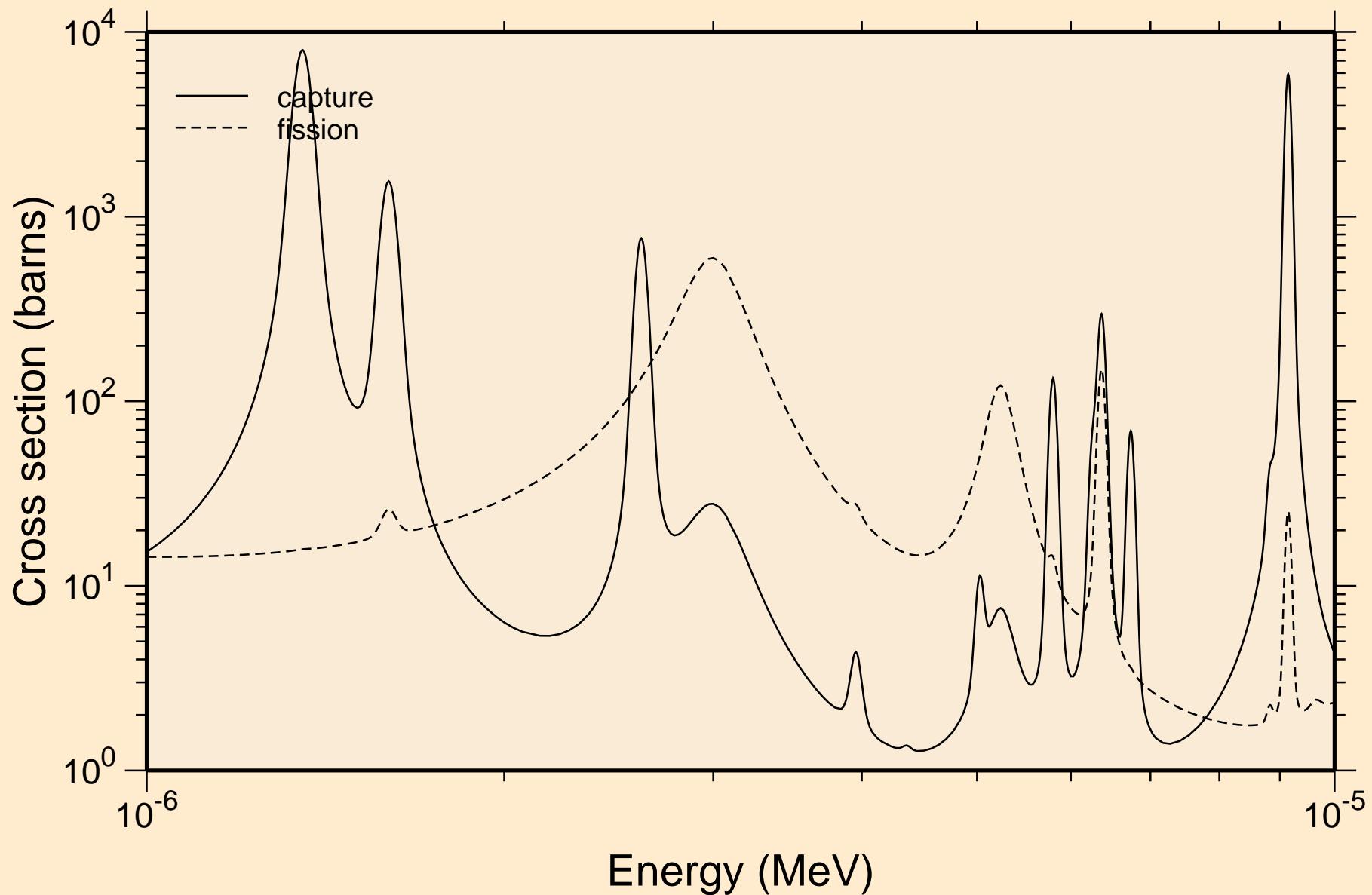
N-TH231 NRG TENDL-2017, AKONING  
resonance total cross section



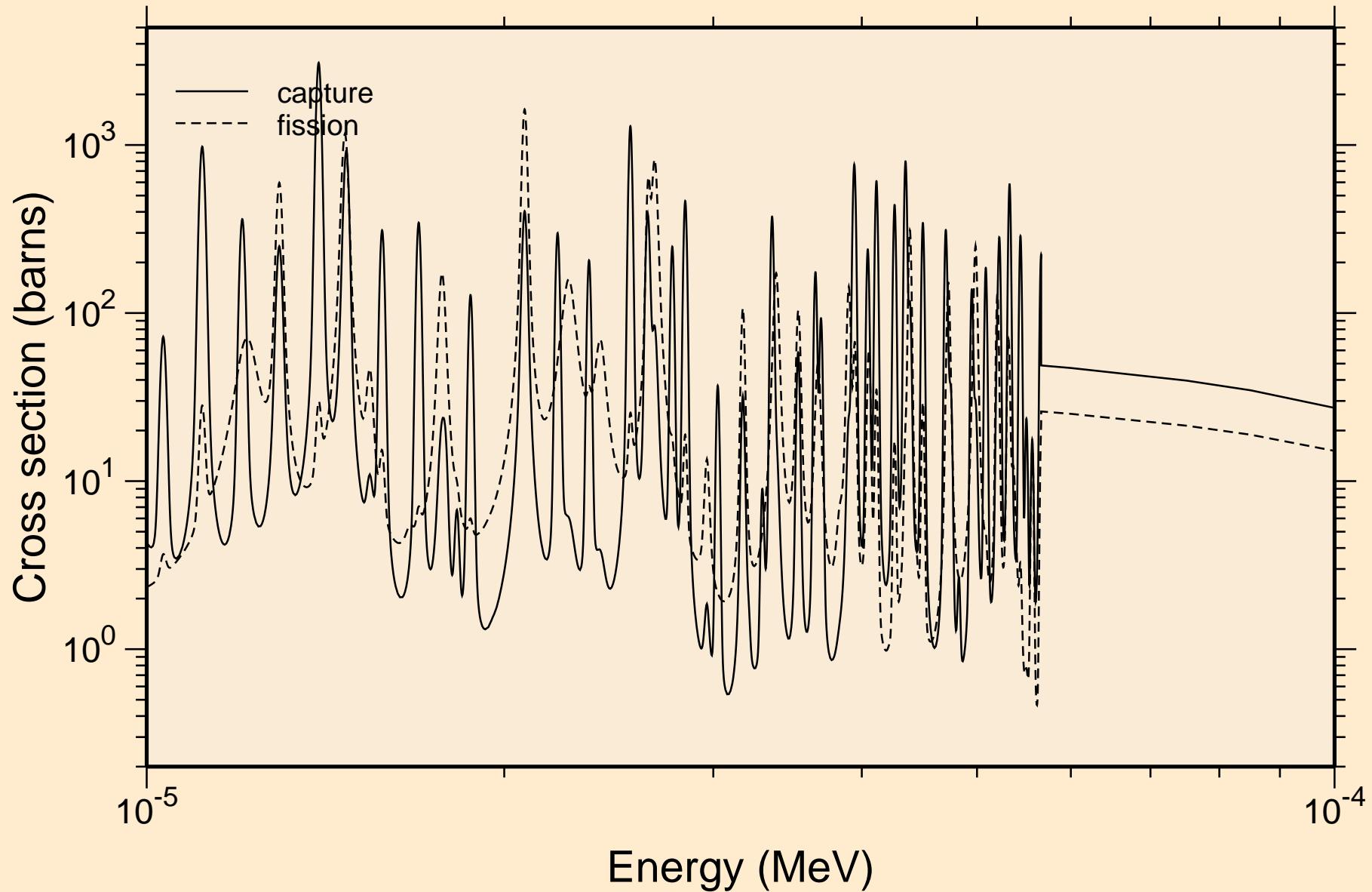
N-TH231 NRG TENDL-2017, AKONING  
resonance total cross section



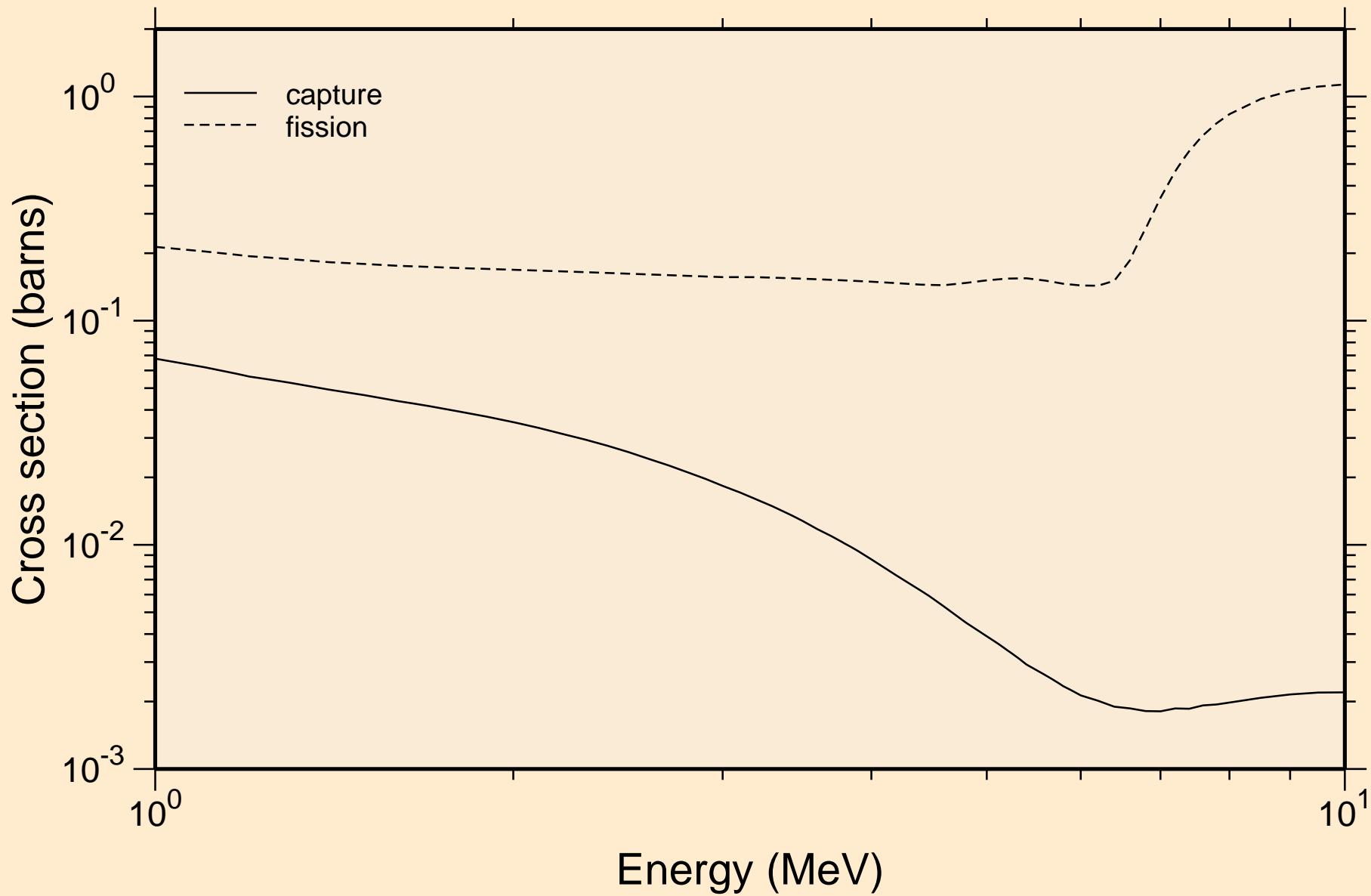
# N-TH231 NRG TENDL-2017, AKONING resonance absorption cross sections



N-TH231 NRG TENDL-2017, AKONING  
resonance absorption cross sections

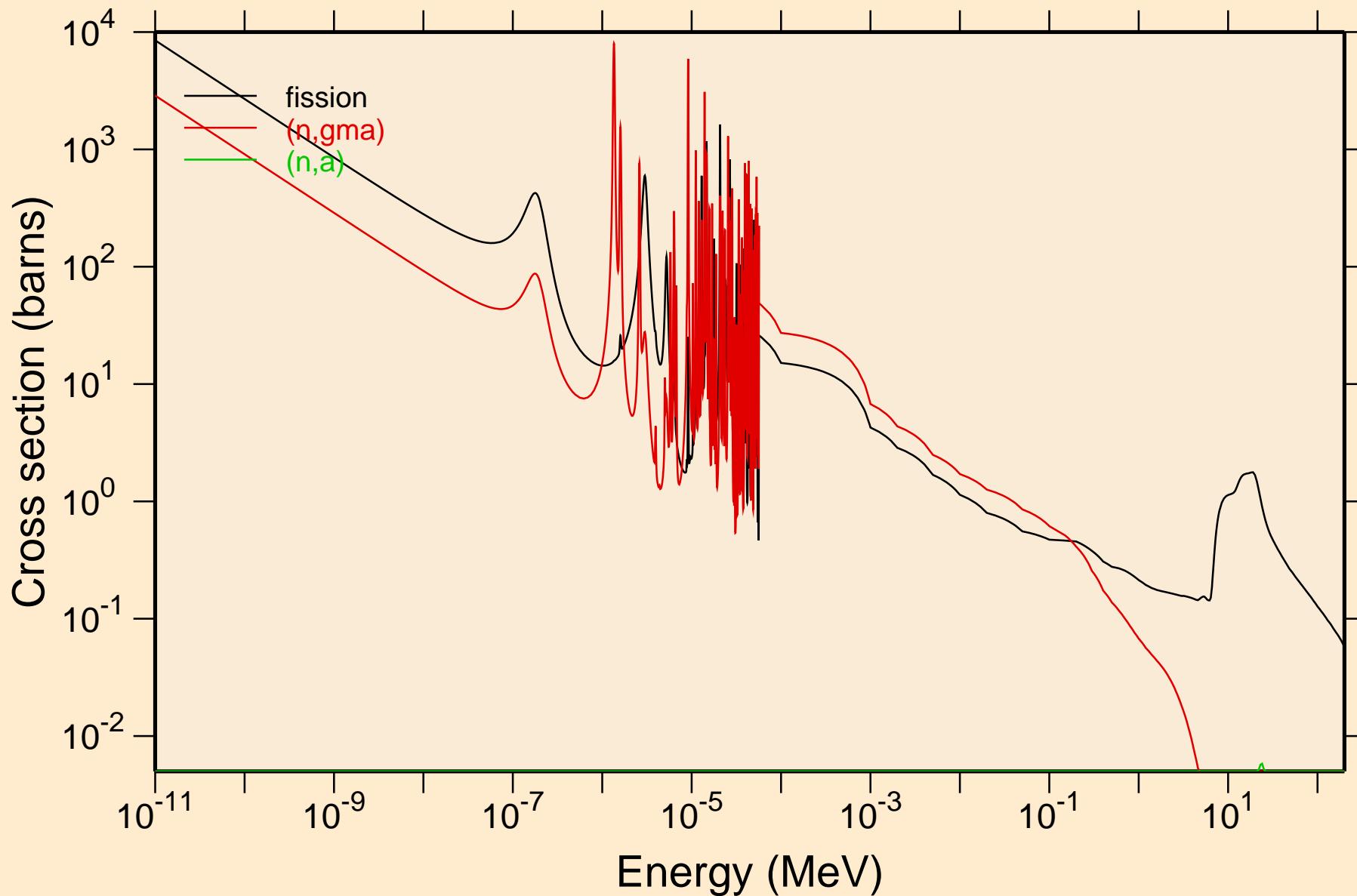


N-TH231 NRG TENDL-2017, AKONING  
resonance absorption cross sections



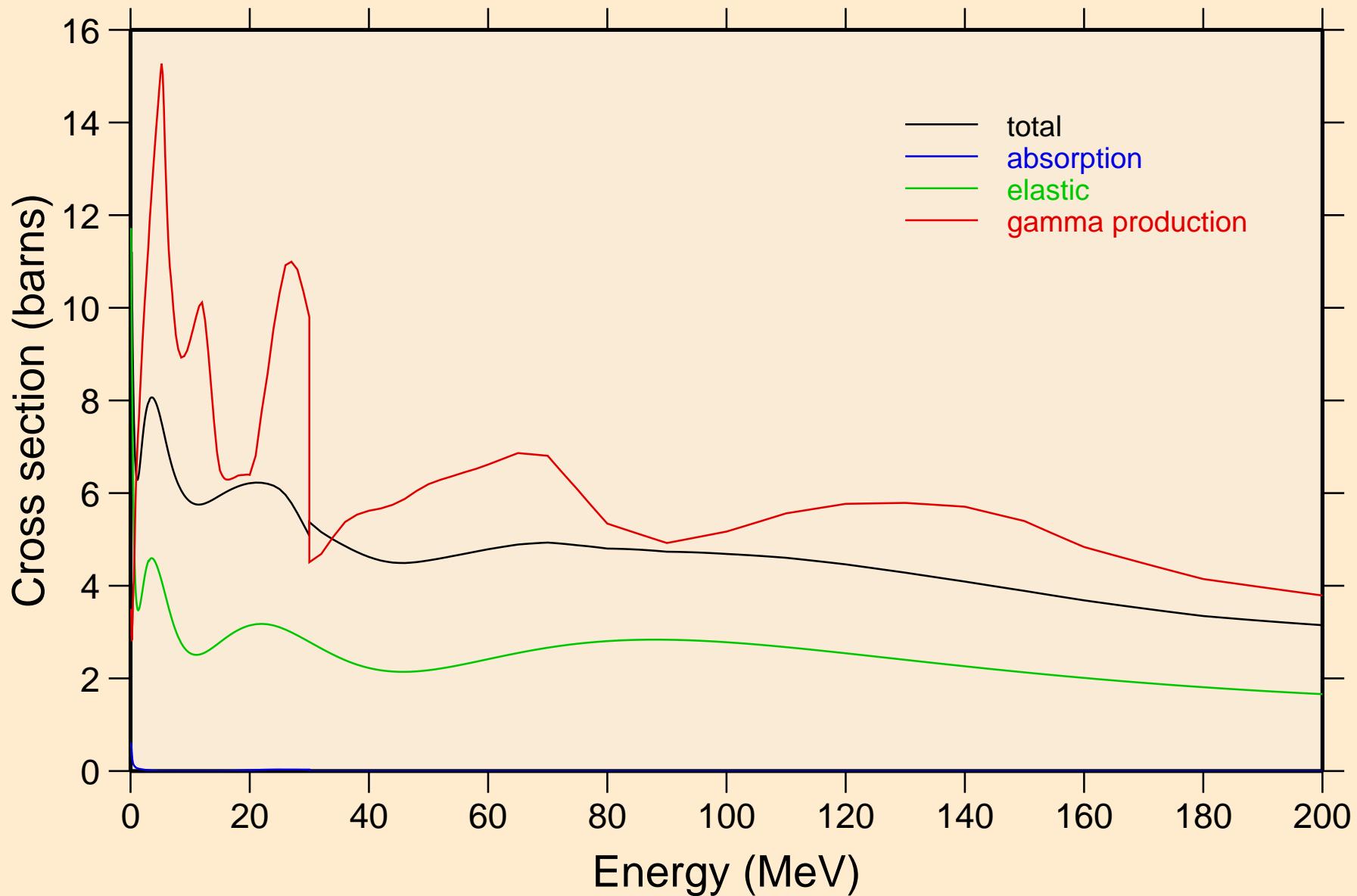
# N-TH231 NRG TENDL-2017, AKONING

## Non-threshold reactions



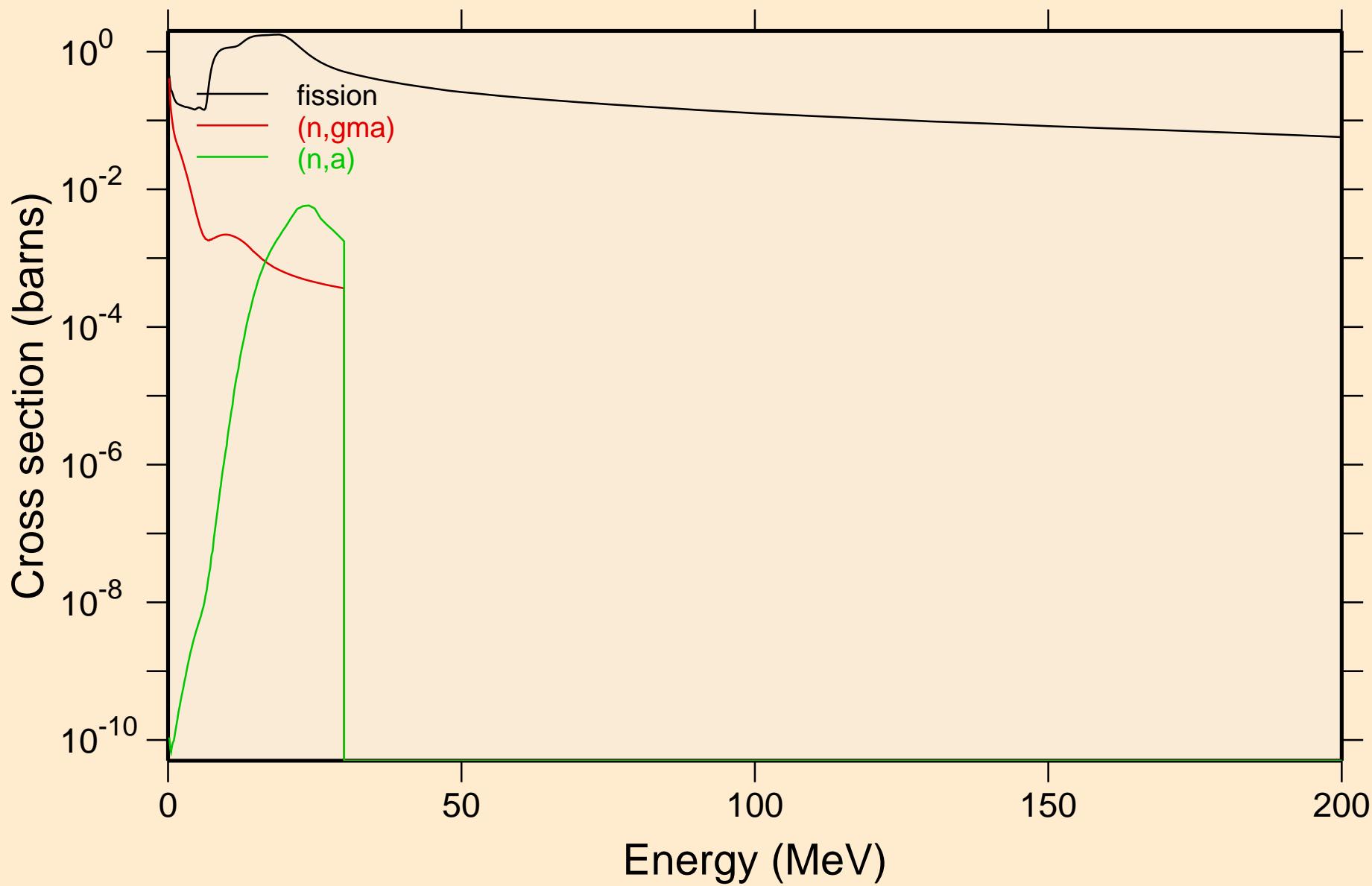
# N-TH231 NRG TENDL-2017, AKONING

## Principal cross sections



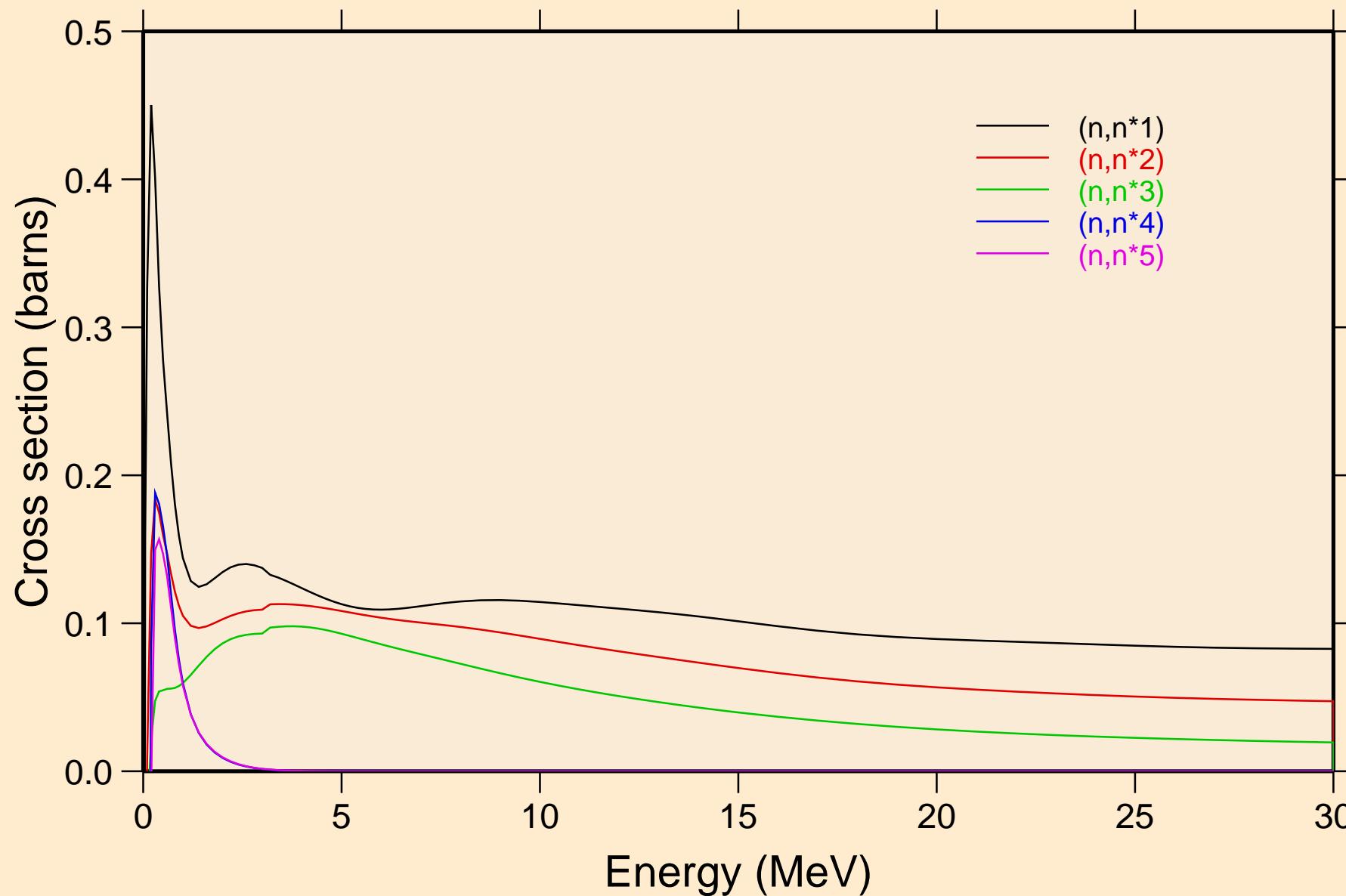
# N-TH231 NRG TENDL-2017, AKONING

## Non-threshold reactions



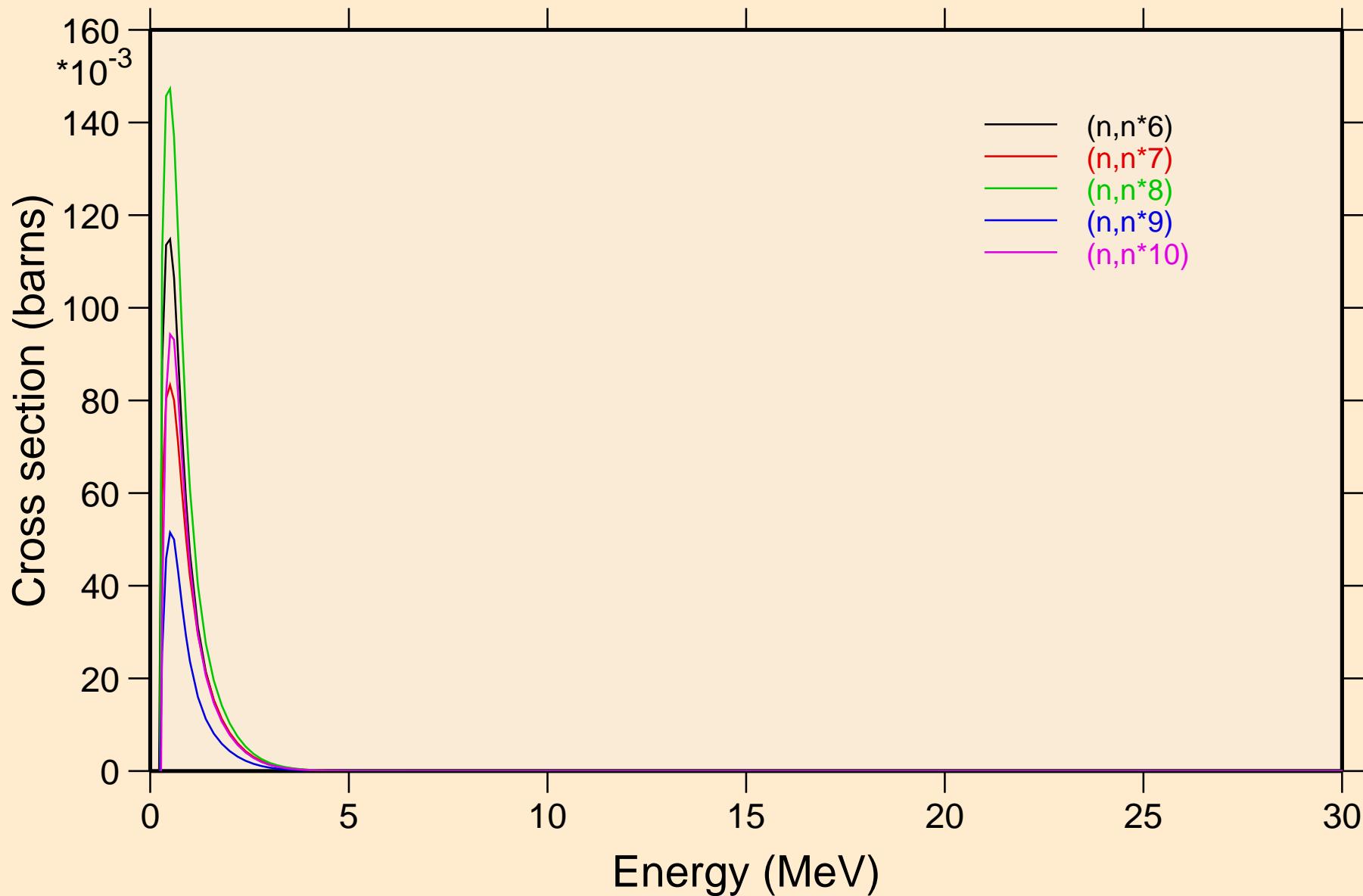
# N-TH231 NRG TENDL-2017, AKONING

## Inelastic levels



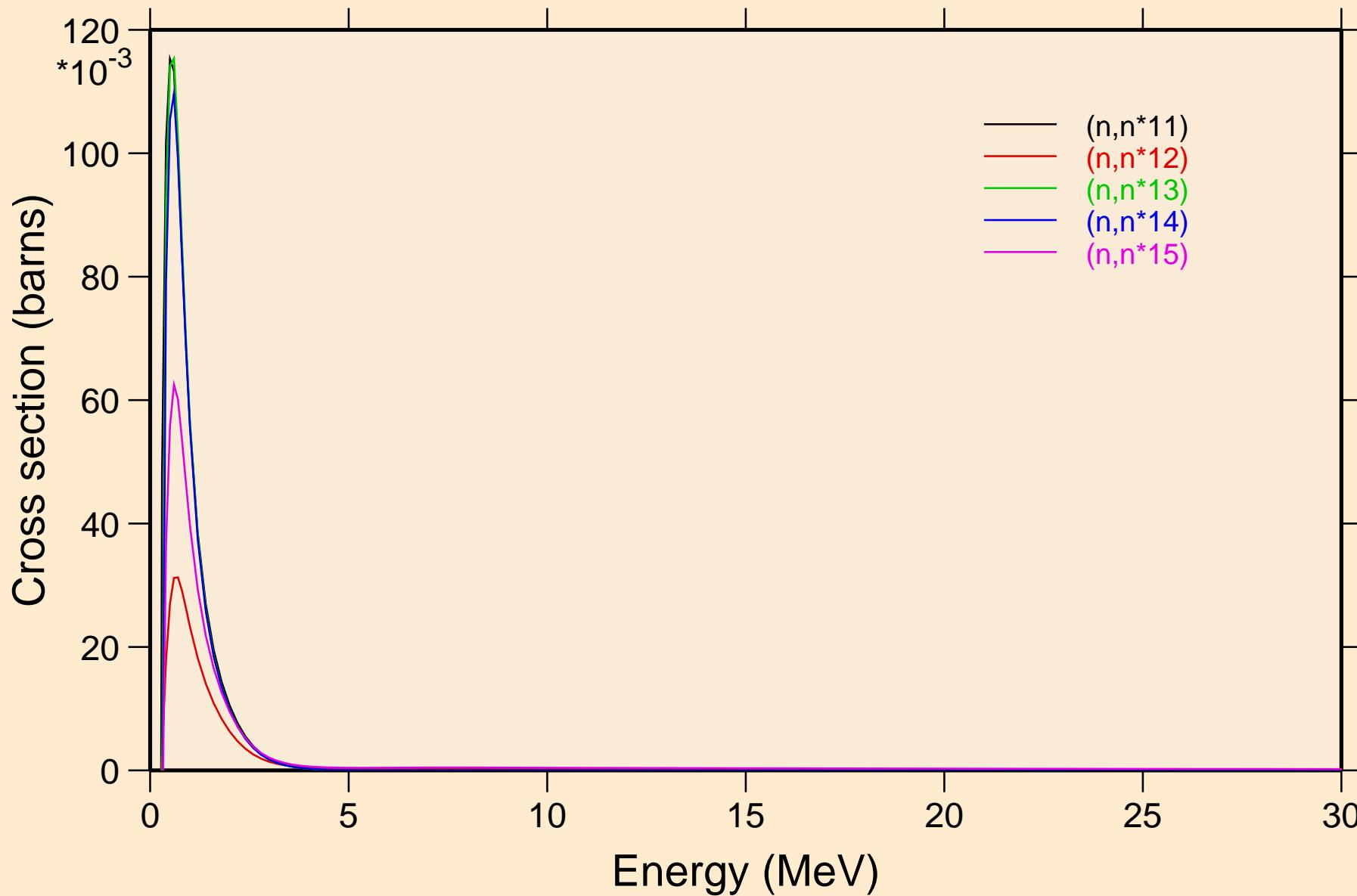
# N-TH231 NRG TENDL-2017, AKONING

## Inelastic levels



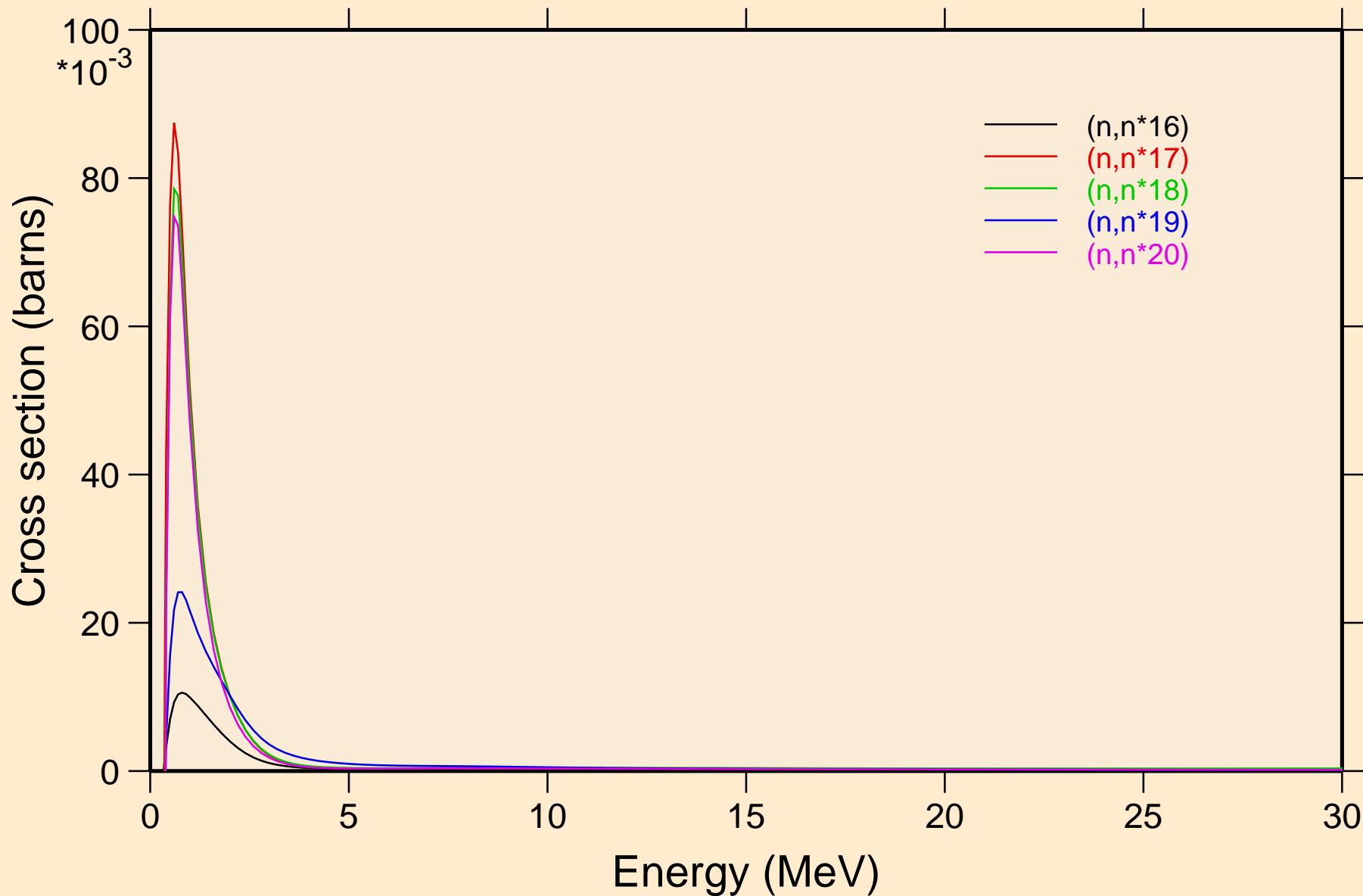
# N-TH231 NRG TENDL-2017, AKONING

## Inelastic levels



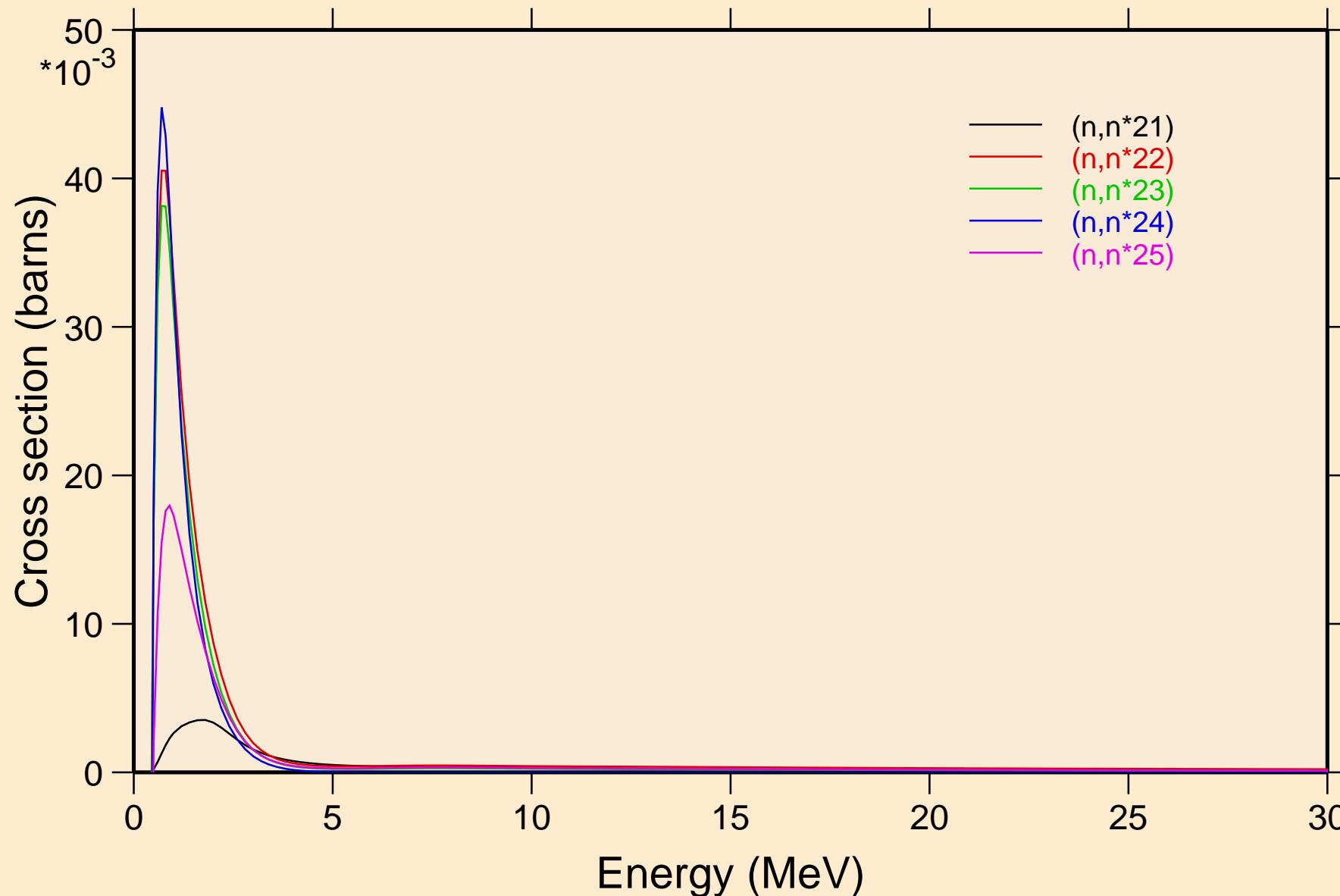
# N-TH231 NRG TENDL-2017, AKONING

## Inelastic levels



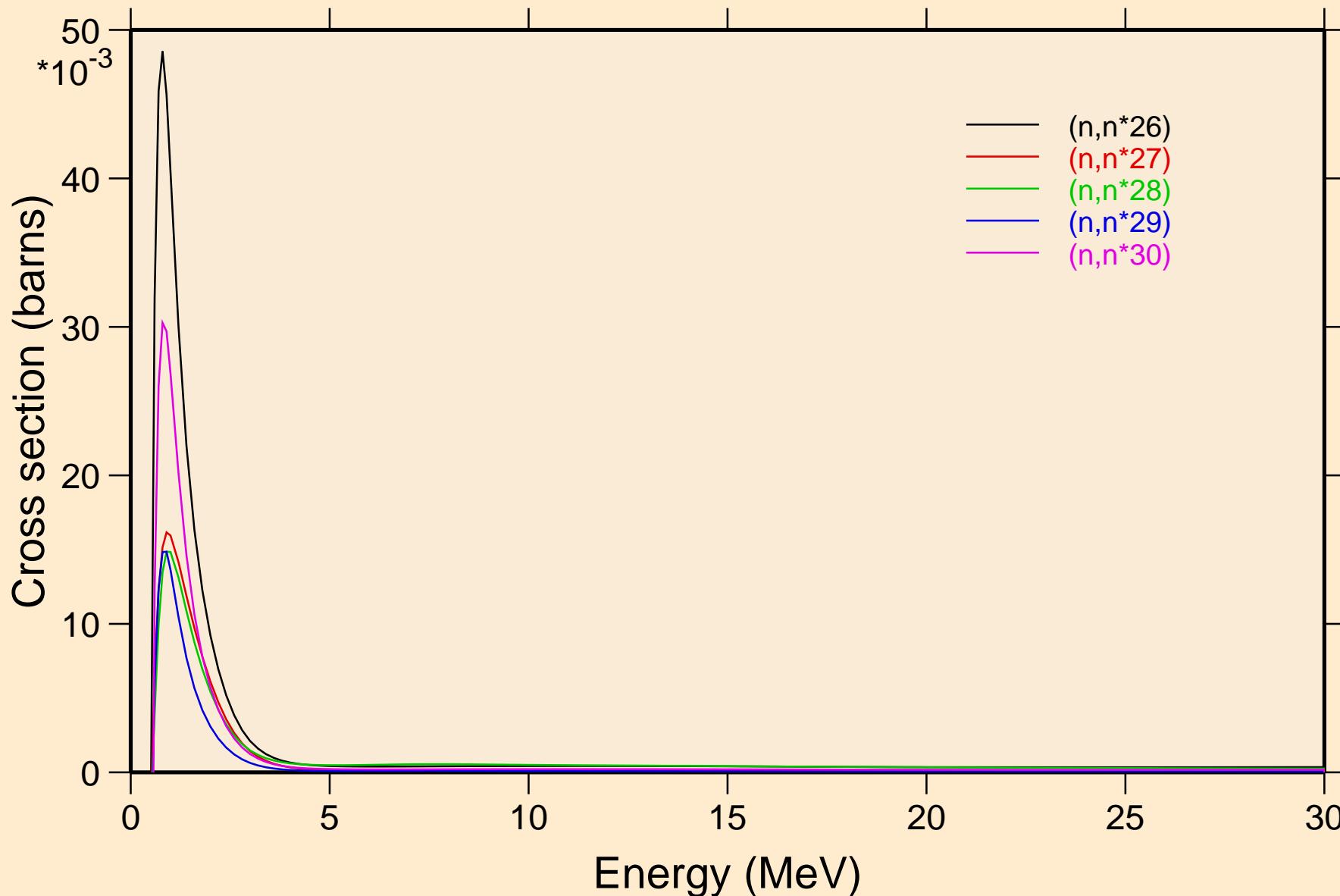
# N-TH231 NRG TENDL-2017, AKONING

## Inelastic levels



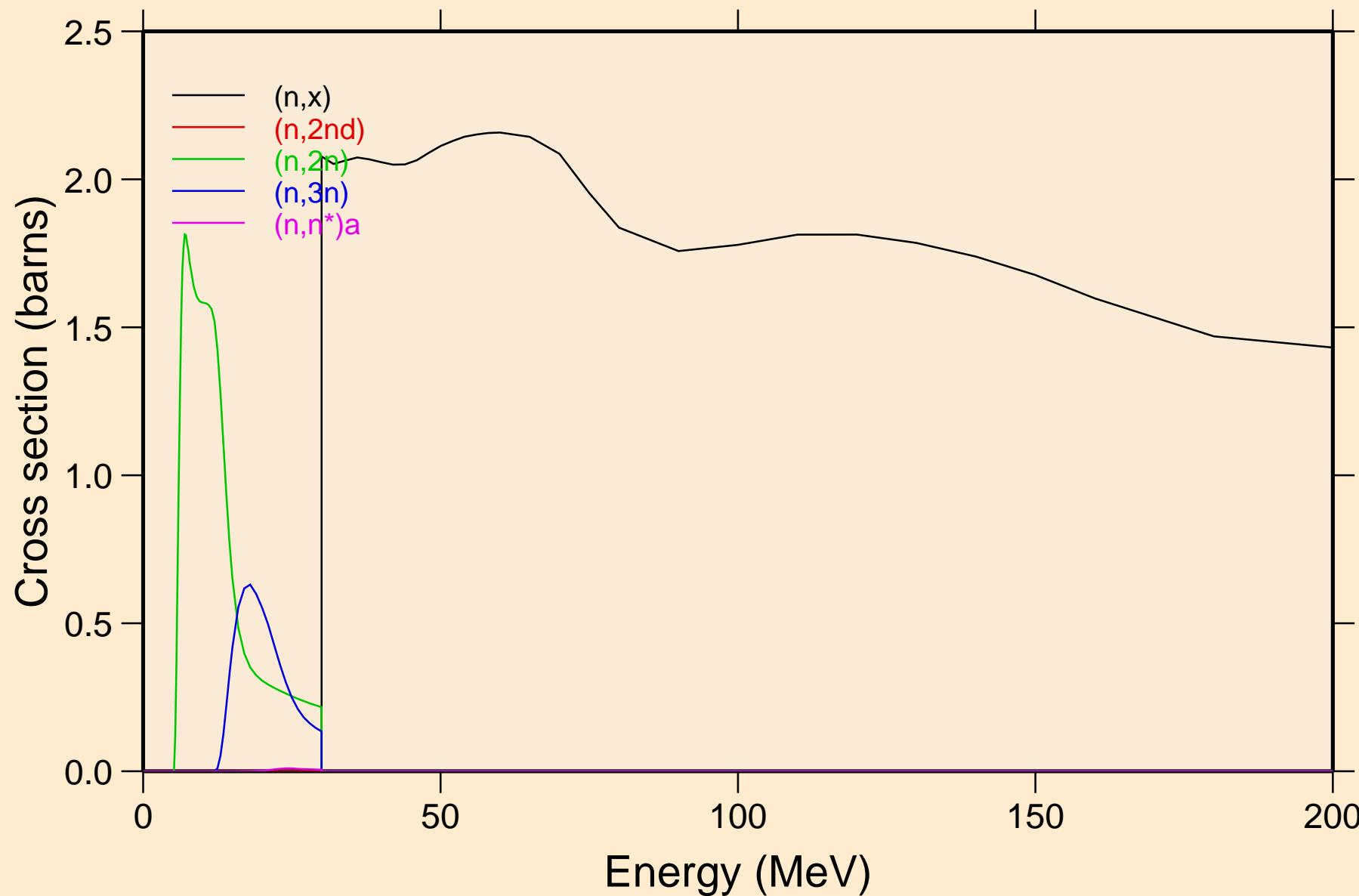
# N-TH231 NRG TENDL-2017, AKONING

## Inelastic levels



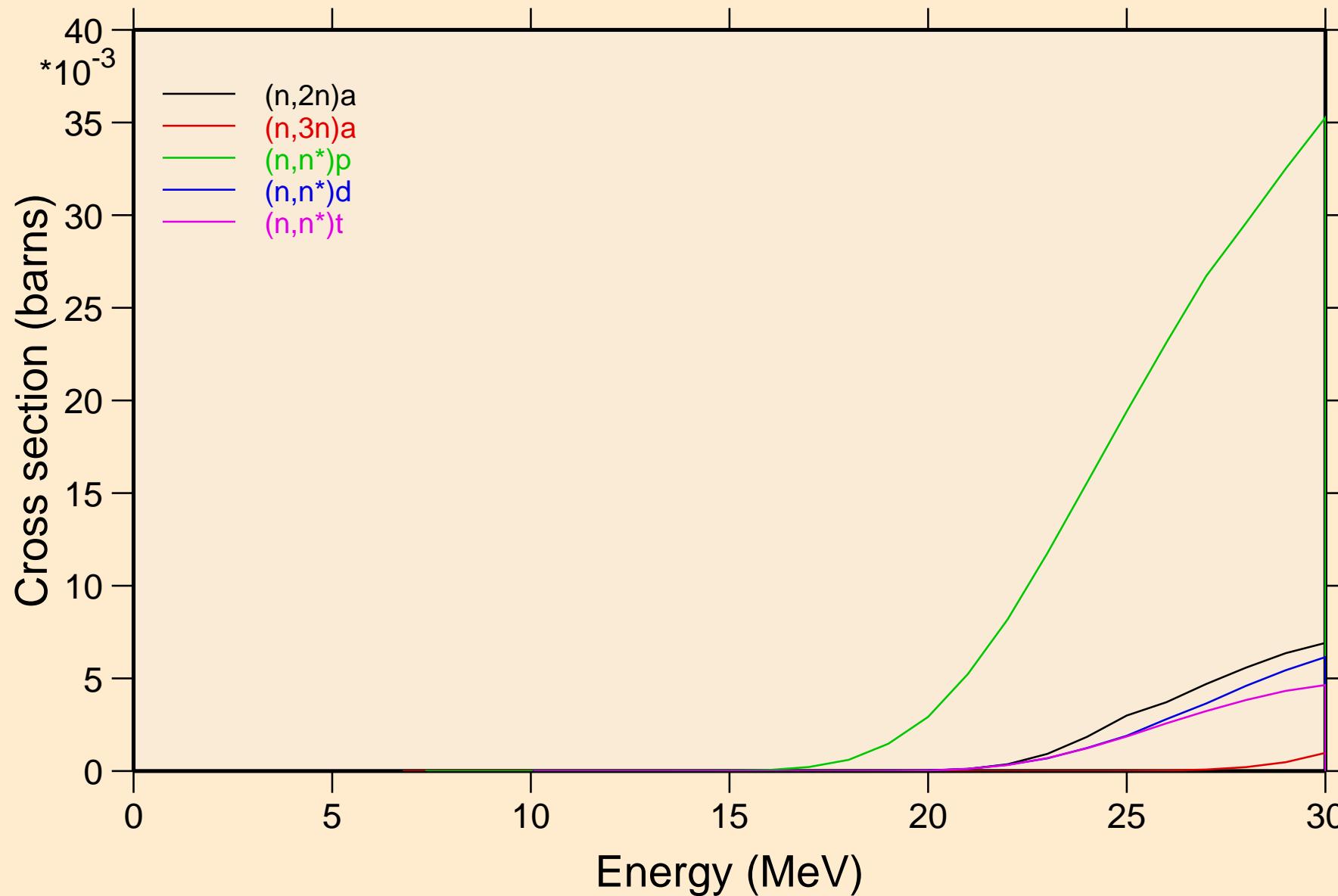
# N-TH231 NRG TENDL-2017, AKONING

## Threshold reactions



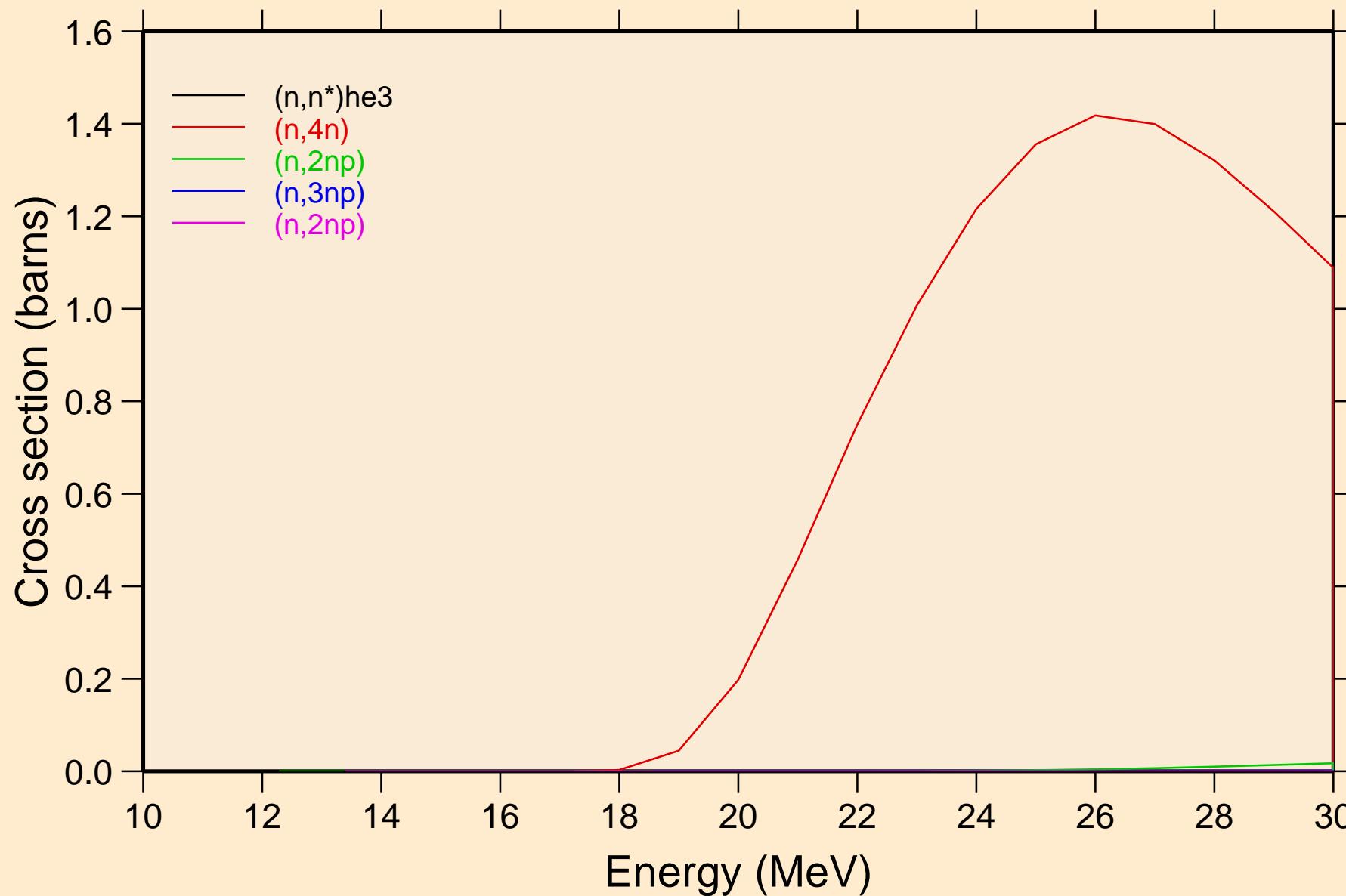
# N-TH231 NRG TENDL-2017, AKONING

## Threshold reactions



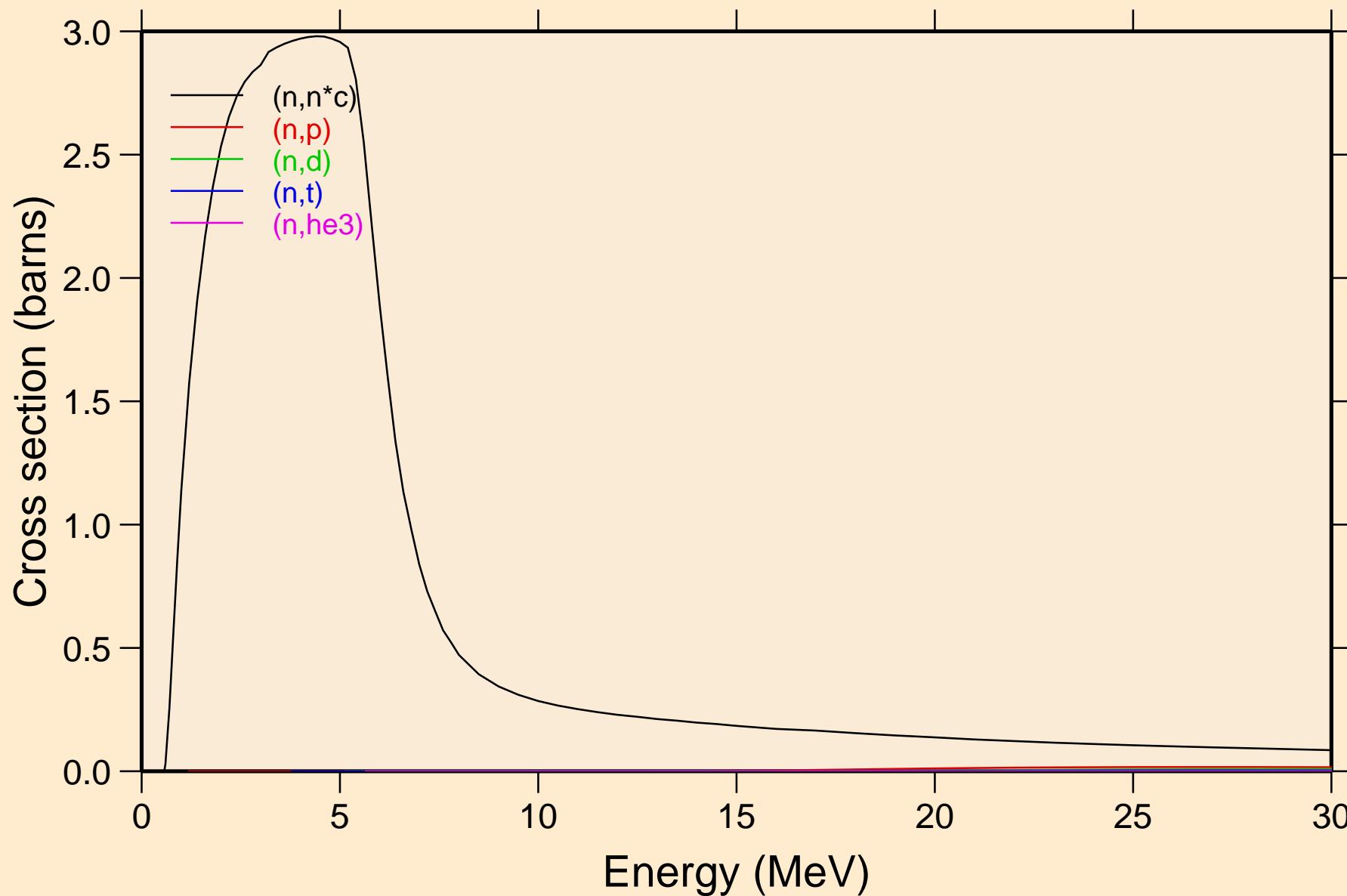
# N-TH231 NRG TENDL-2017, AKONING

## Threshold reactions

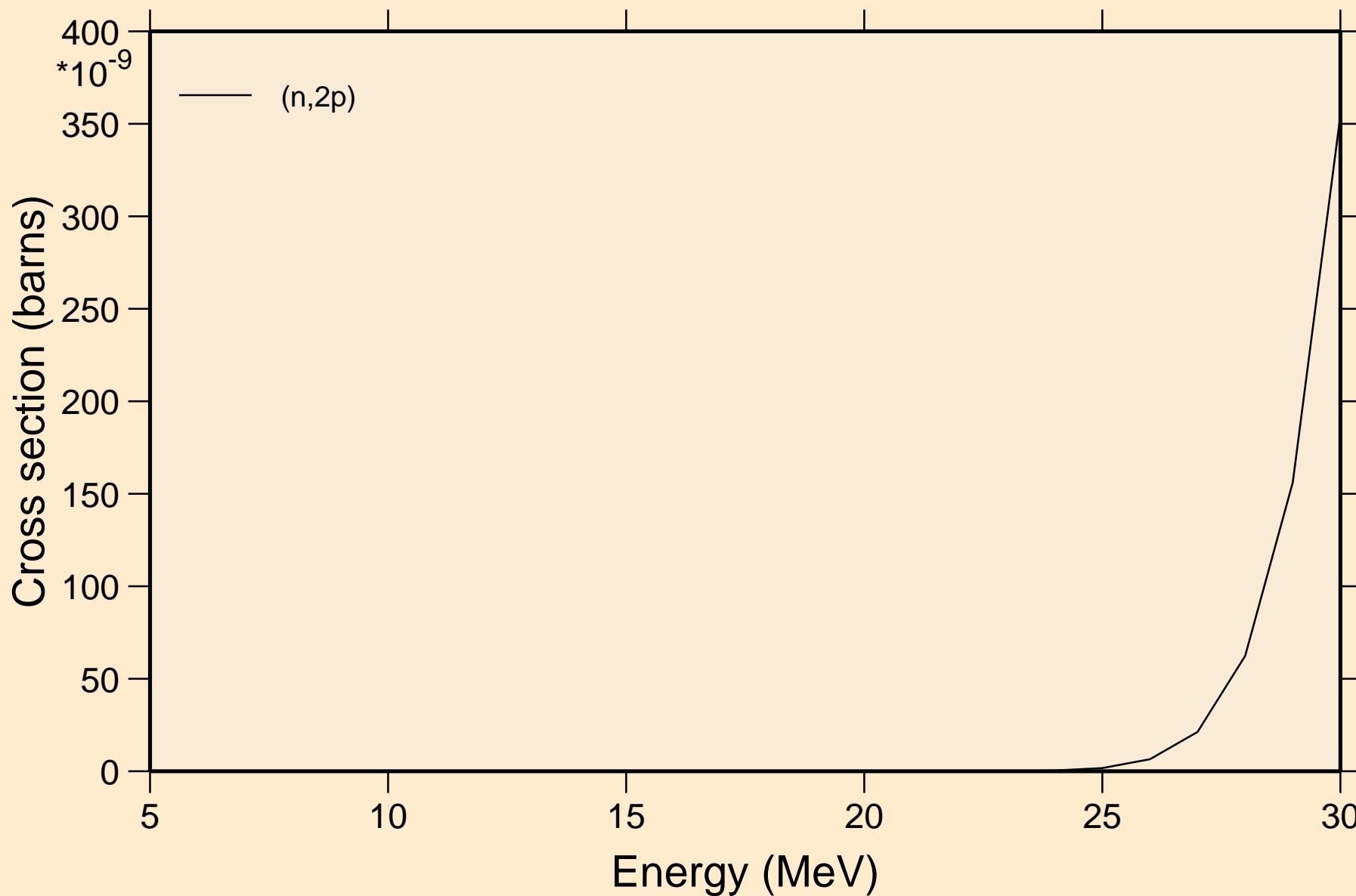


# N-TH231 NRG TENDL-2017, AKONING

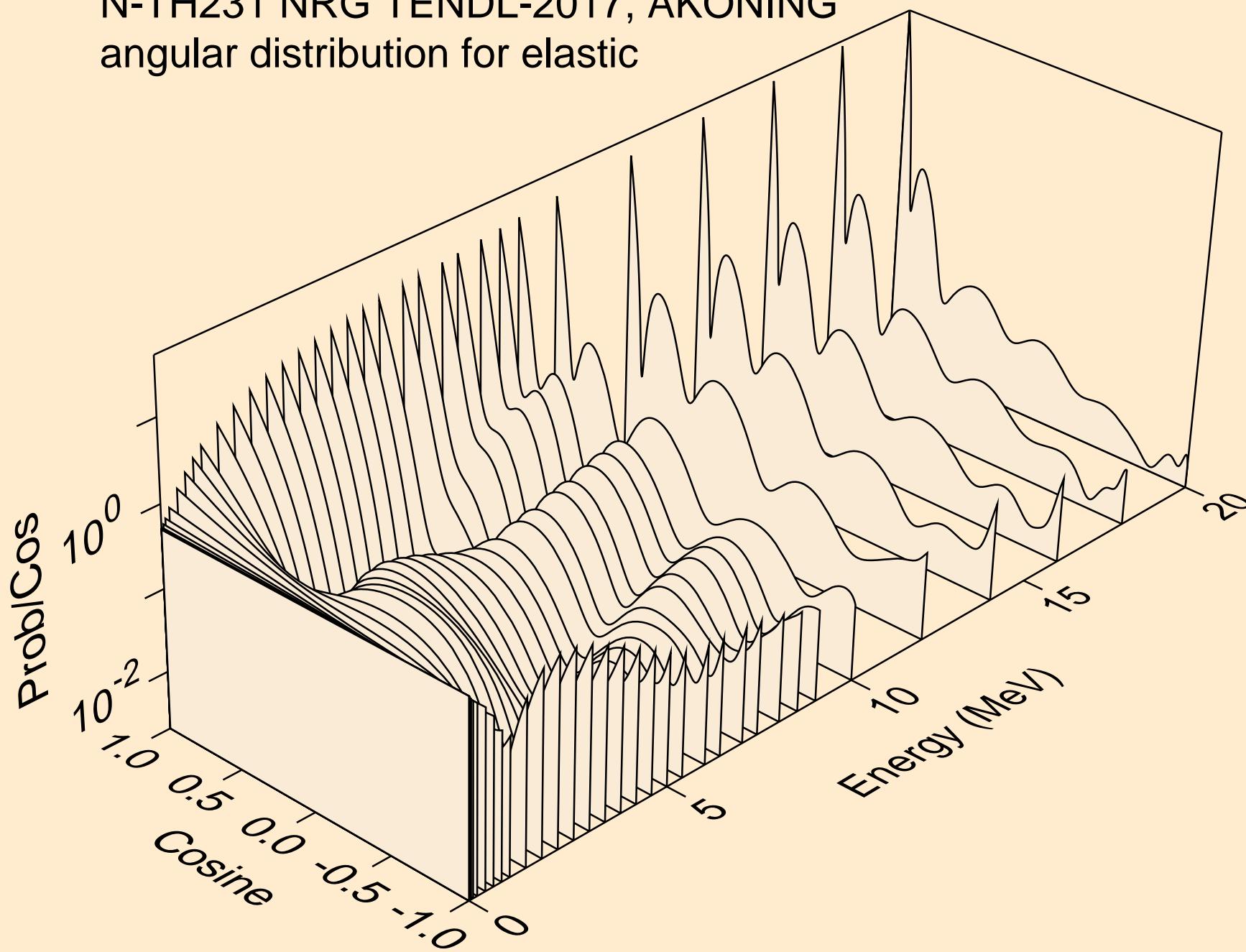
## Threshold reactions



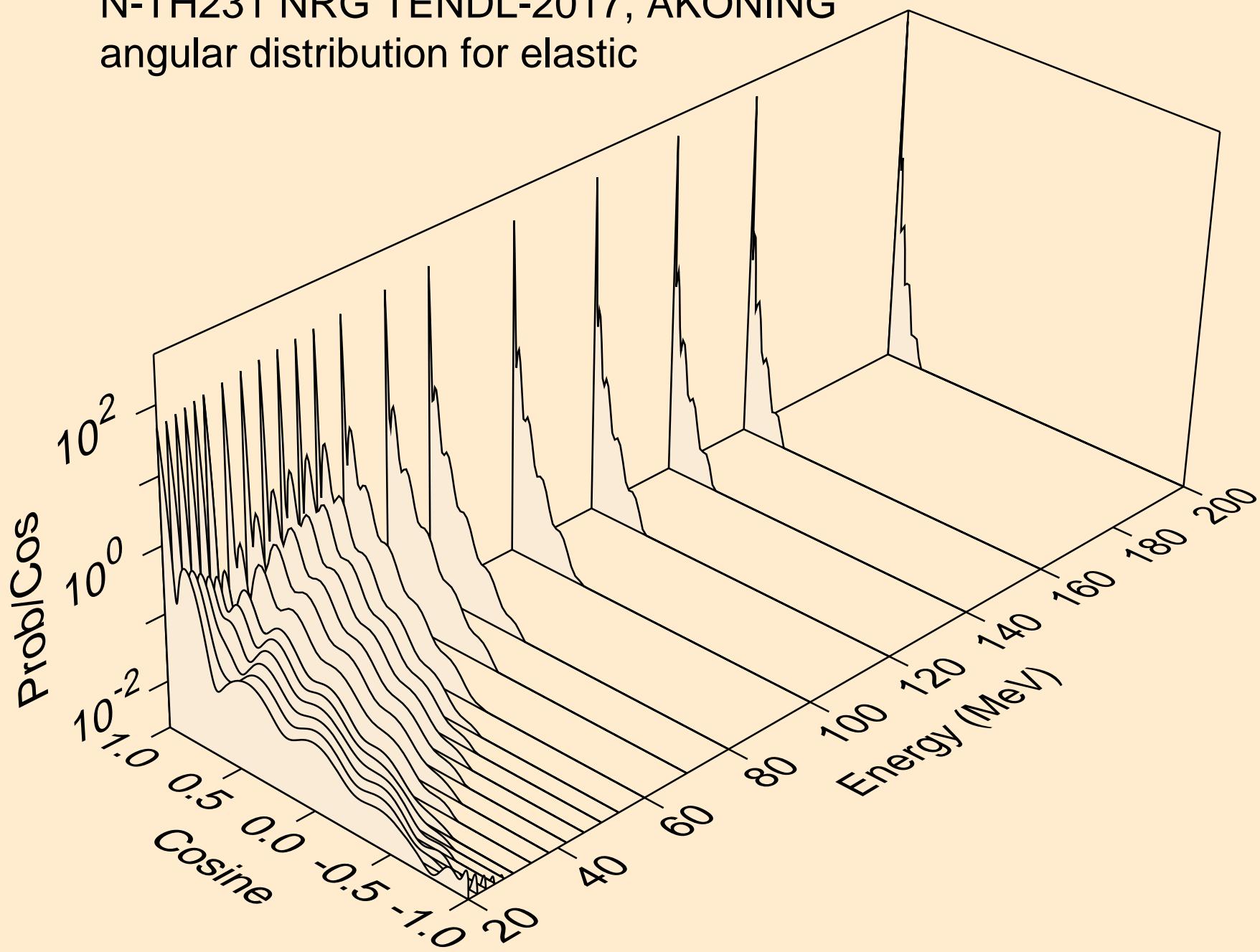
N-TH231 NRG TENDL-2017, AKONING  
Threshold reactions



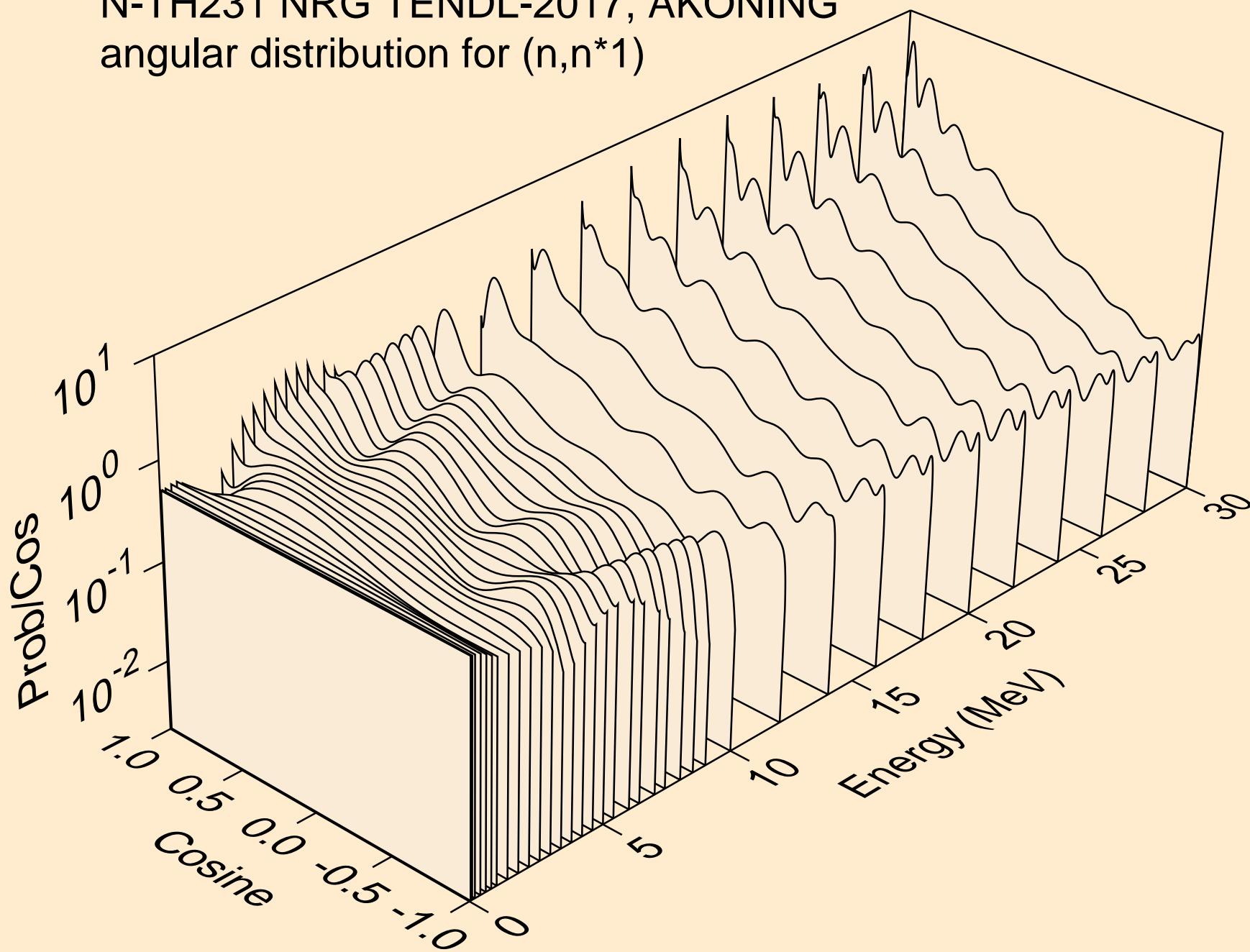
N-TH231 NRG TENDL-2017, AKONING  
angular distribution for elastic



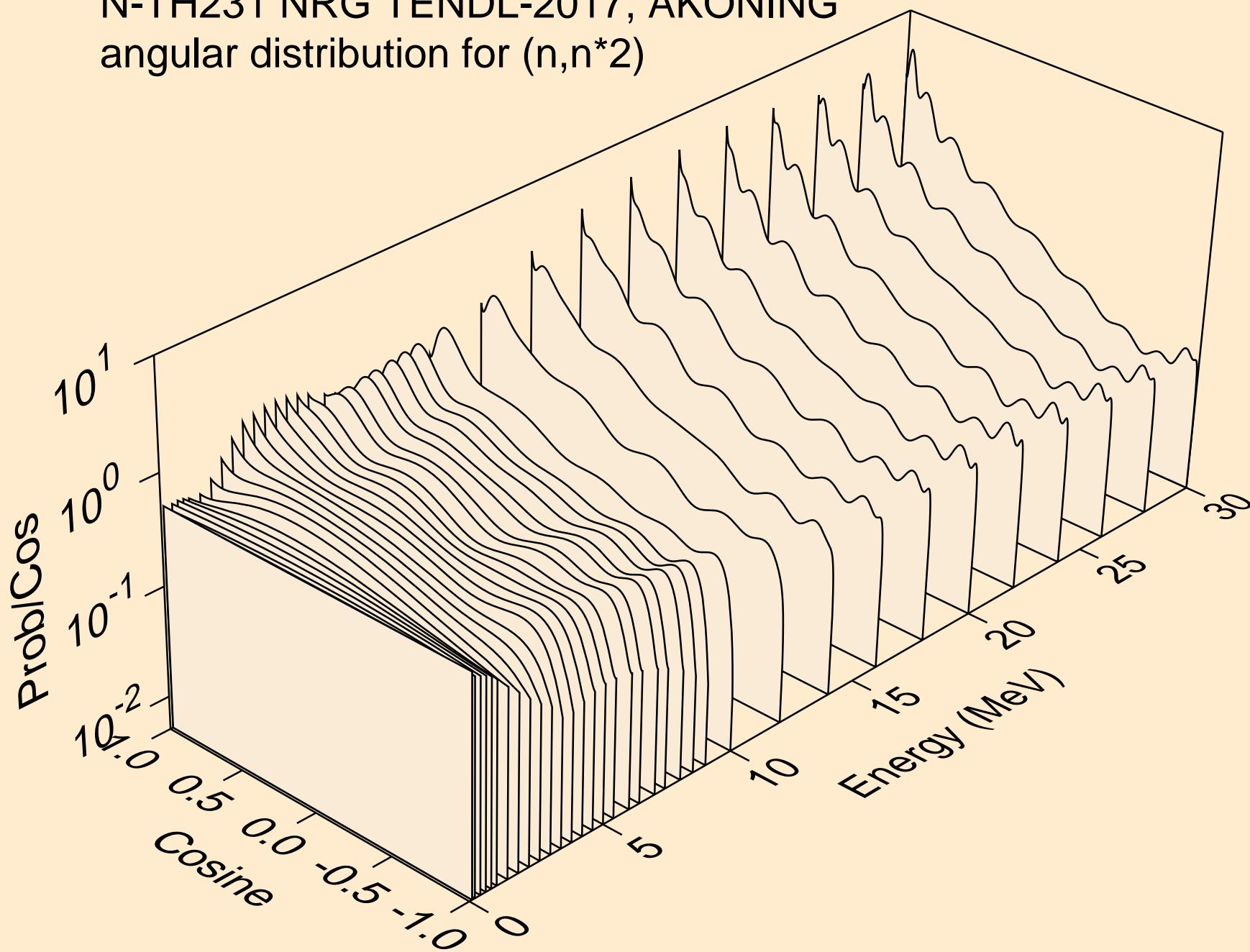
N-TH231 NRG TENDL-2017, AKONING  
angular distribution for elastic



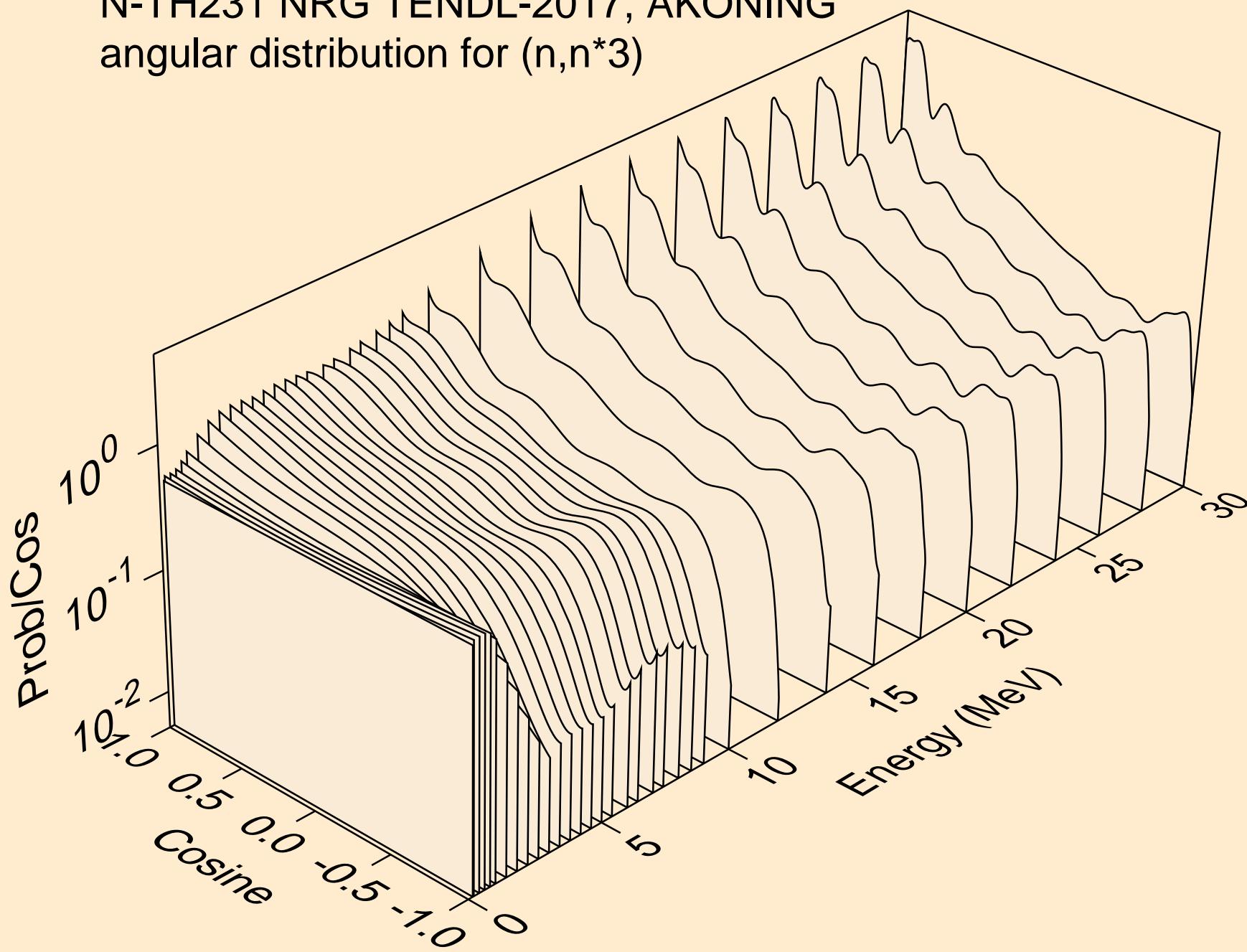
N-TH231 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*1)



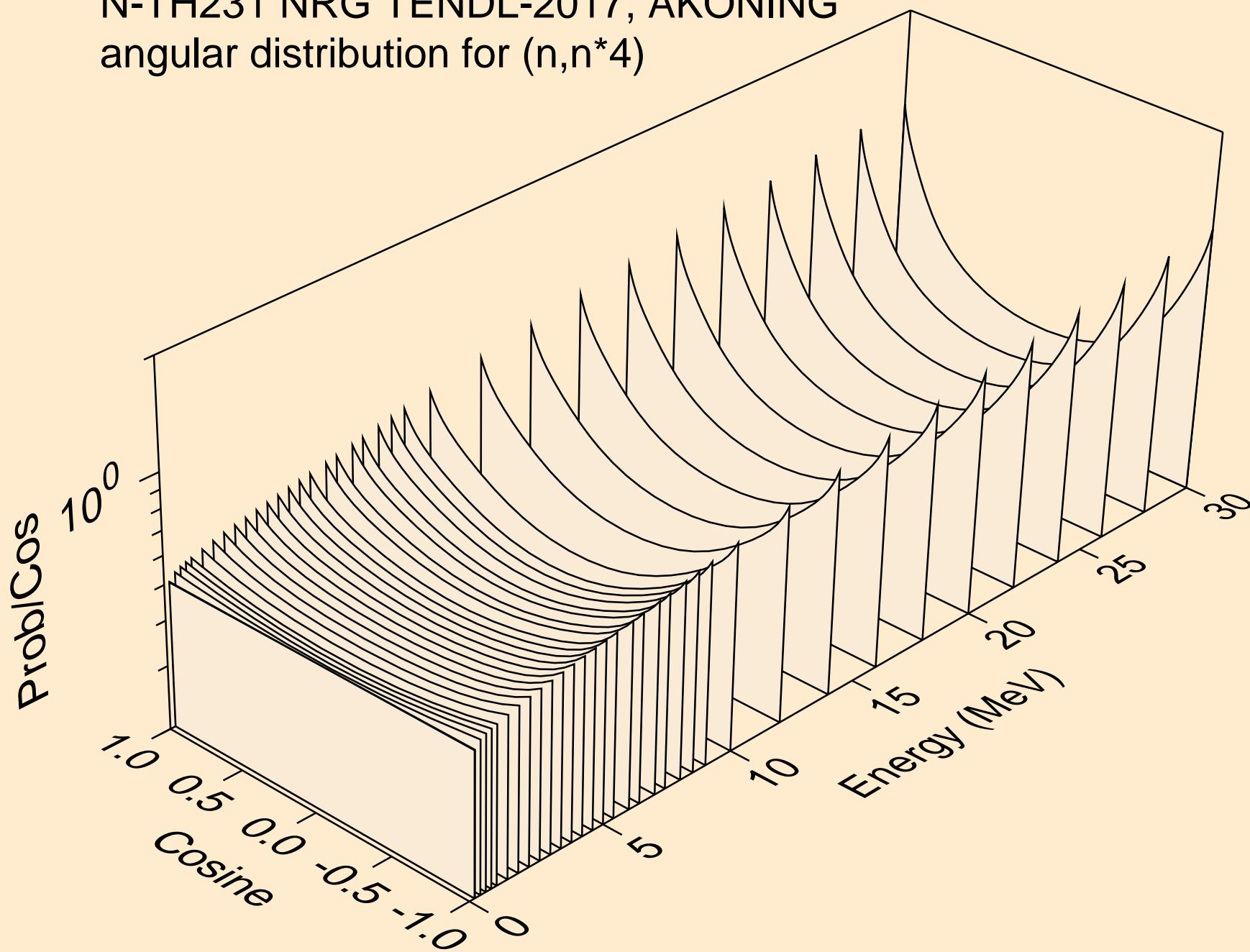
N-TH231 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*)^2$



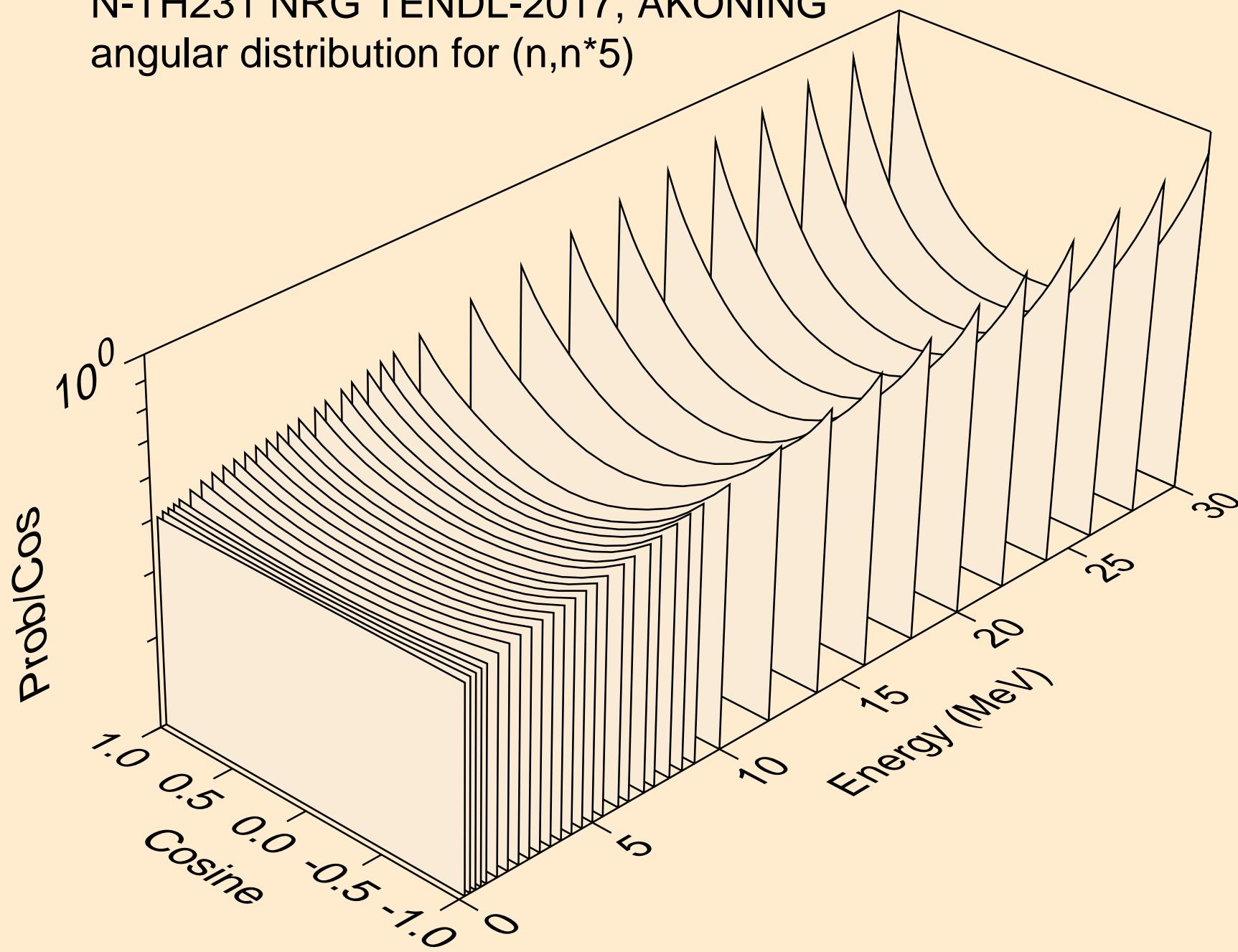
N-TH231 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*3)$



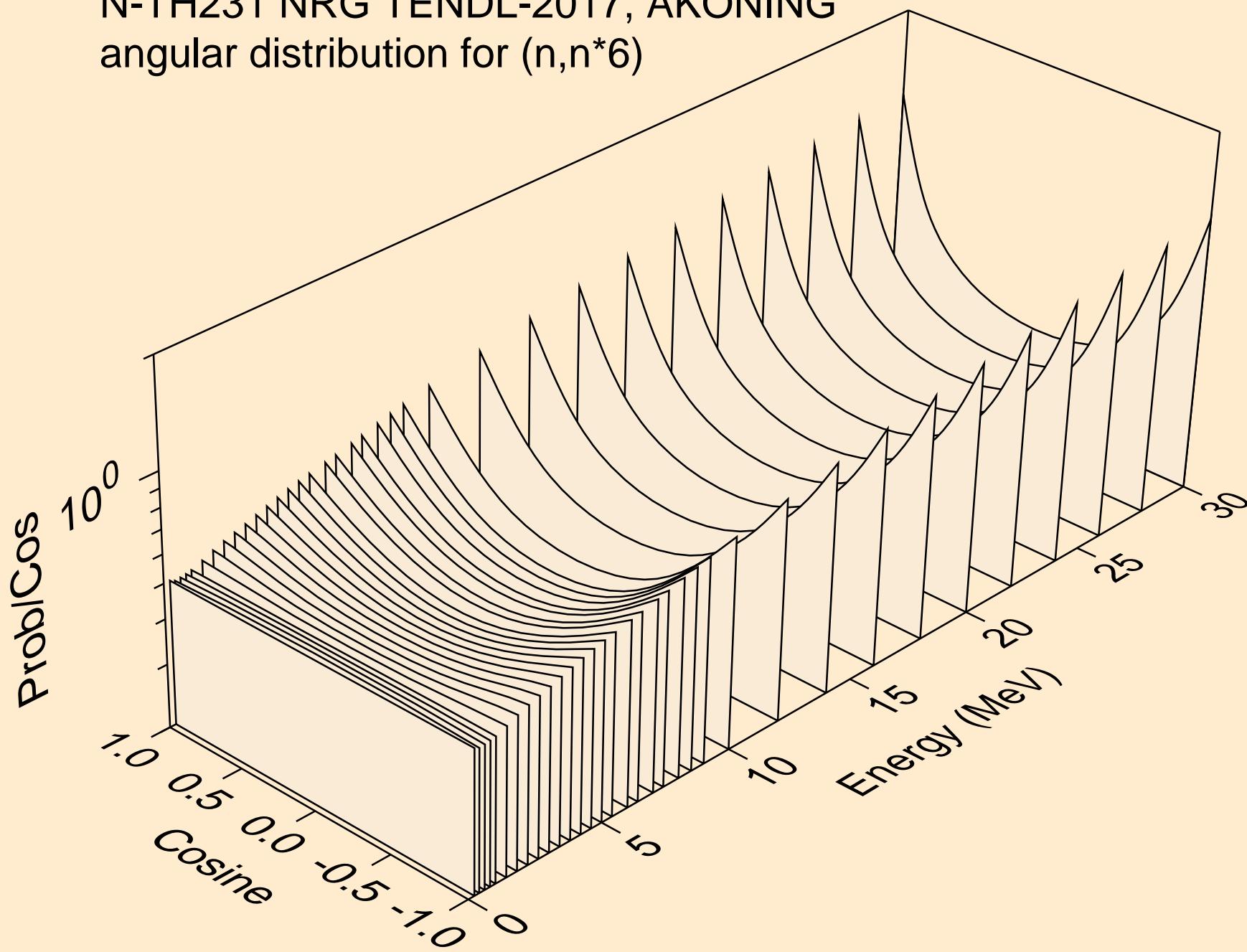
N-TH231 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*4)$



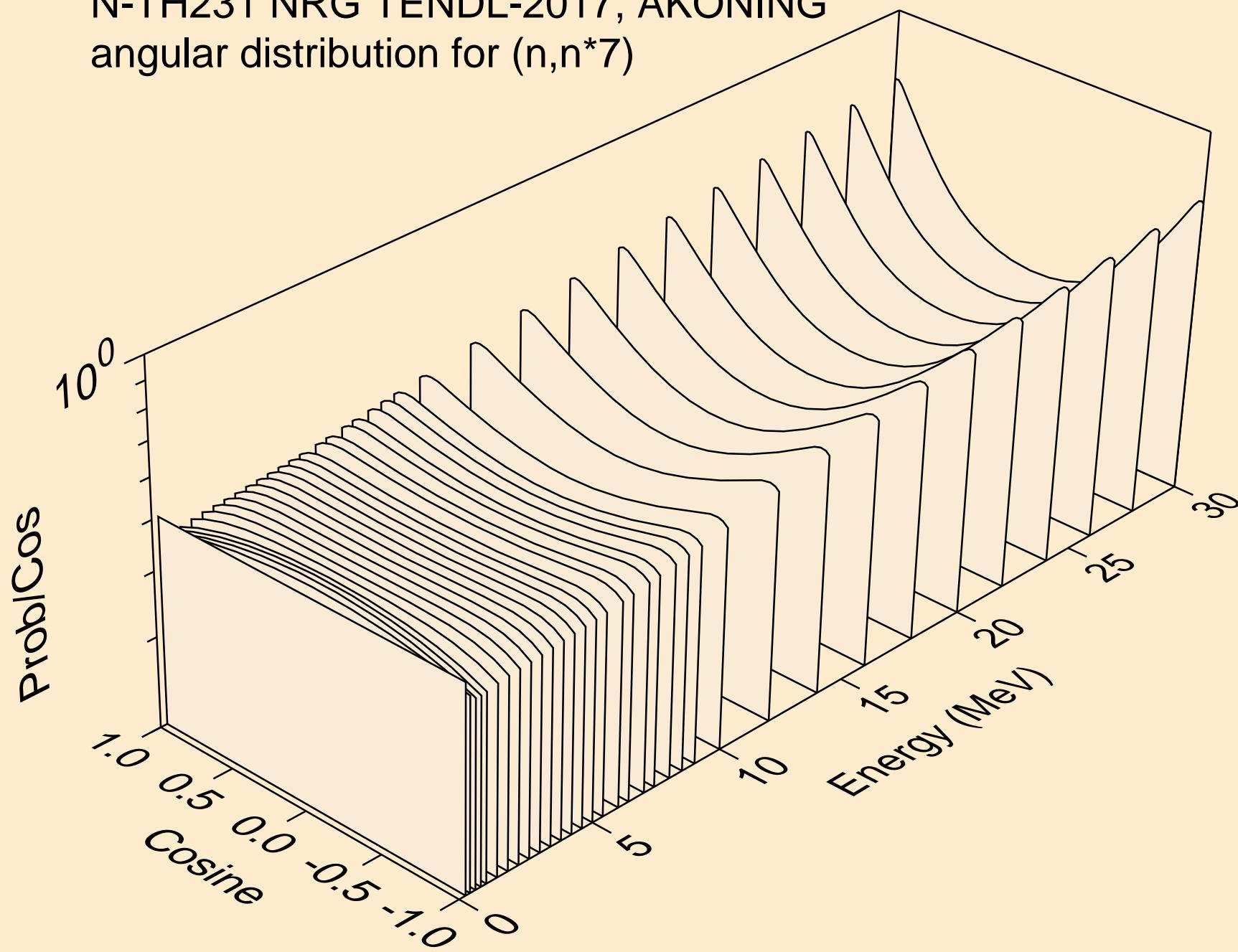
N-TH231 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*)^5$



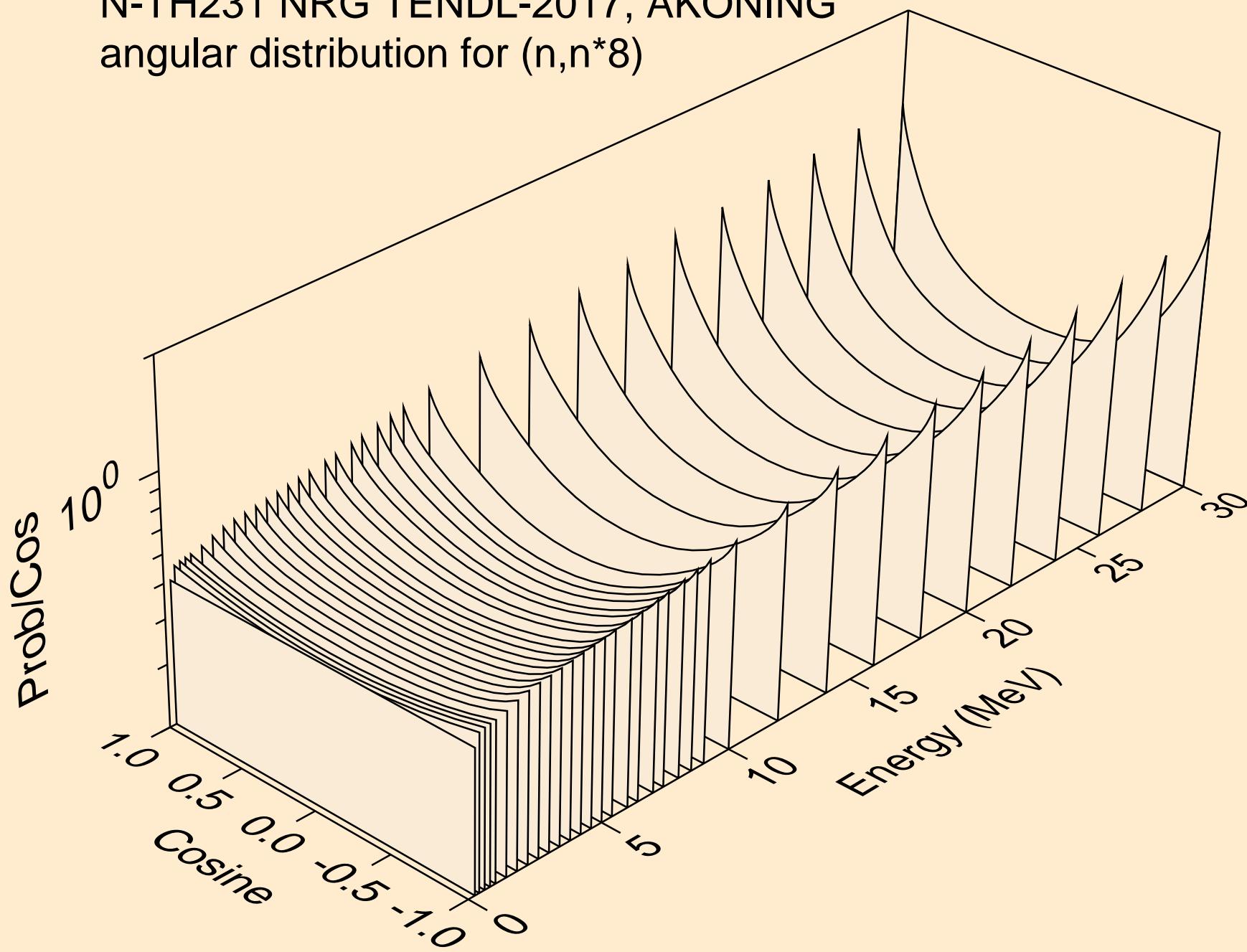
N-TH231 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*6)$



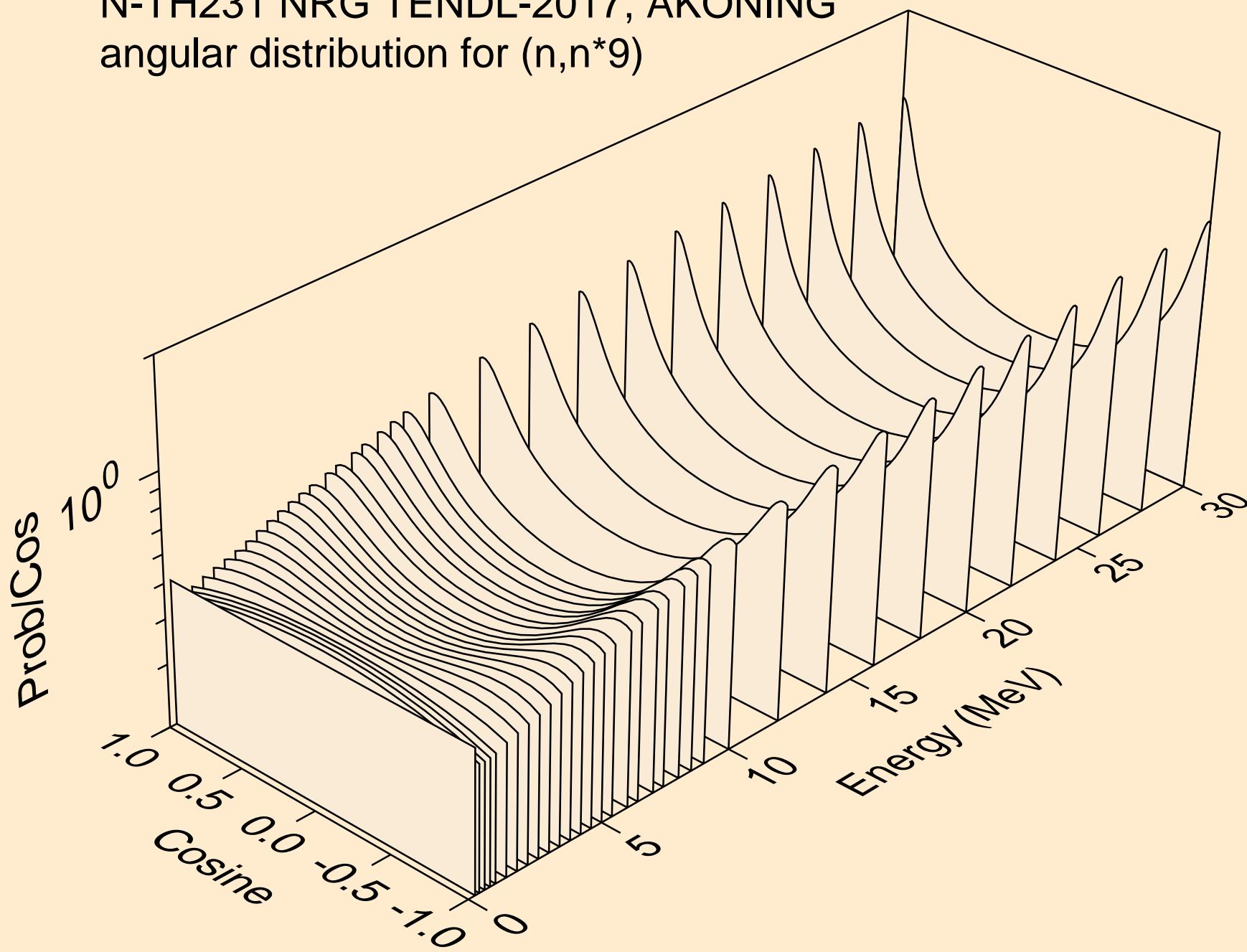
N-TH231 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*)^7$



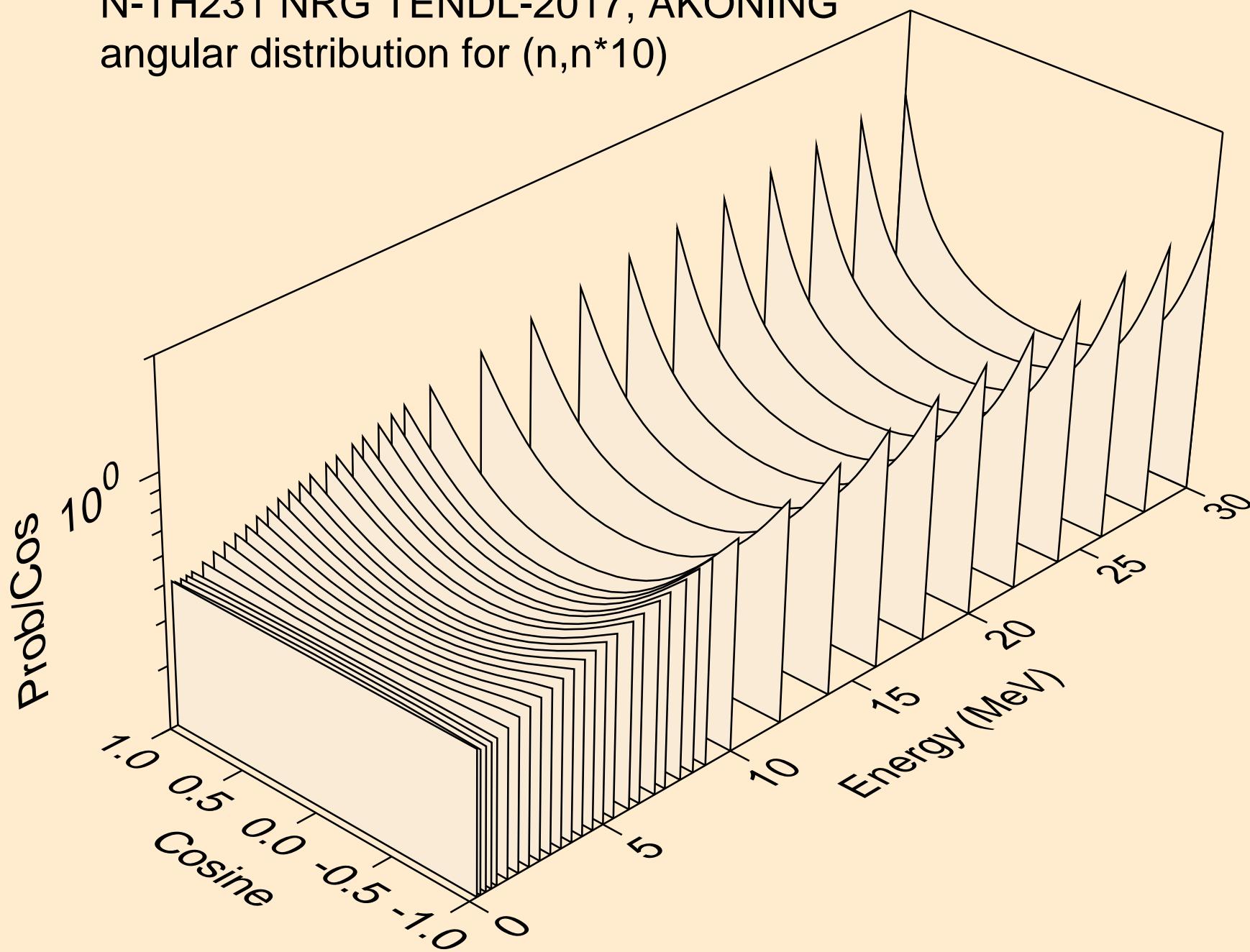
N-TH231 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*)^8$



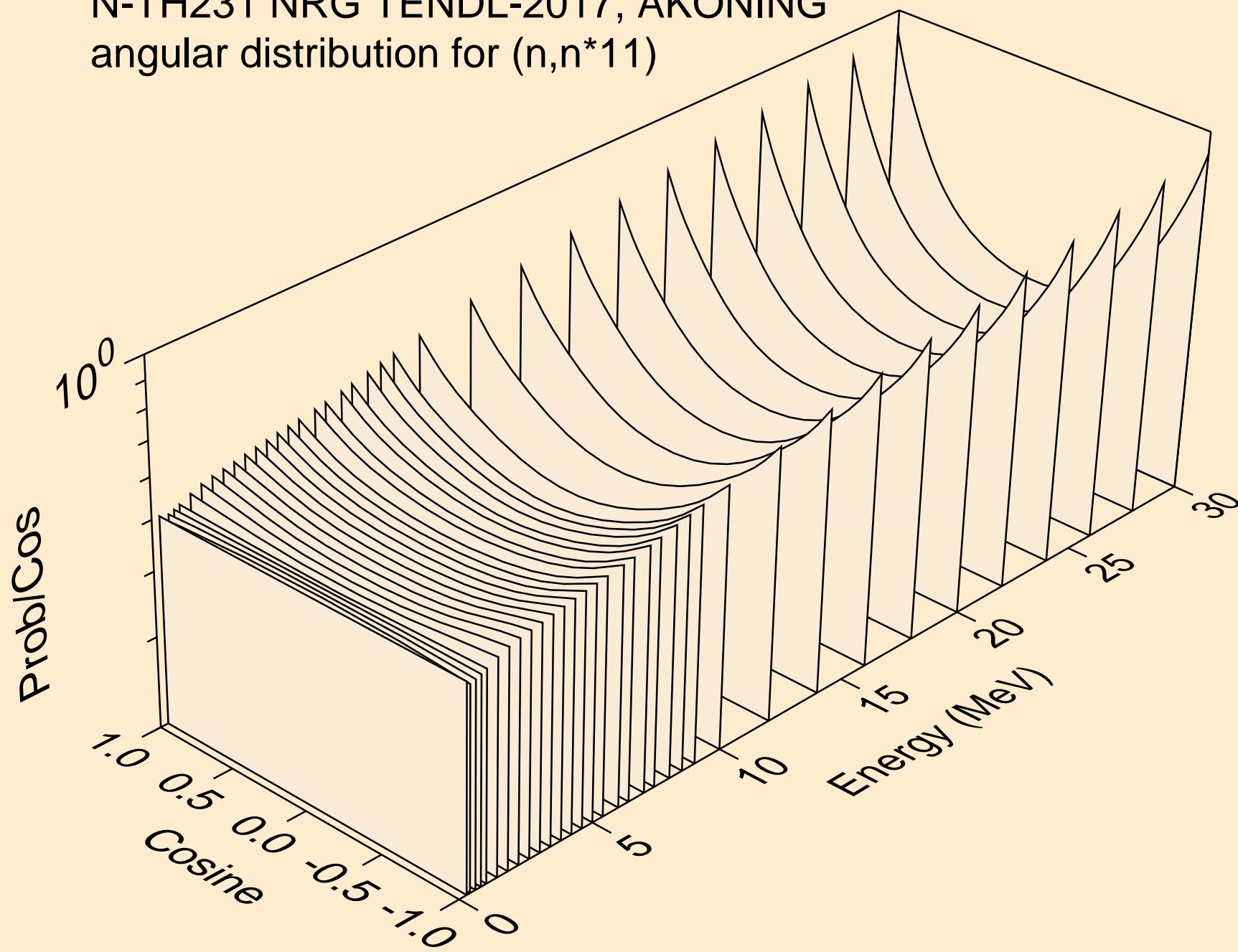
N-TH231 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*)9$



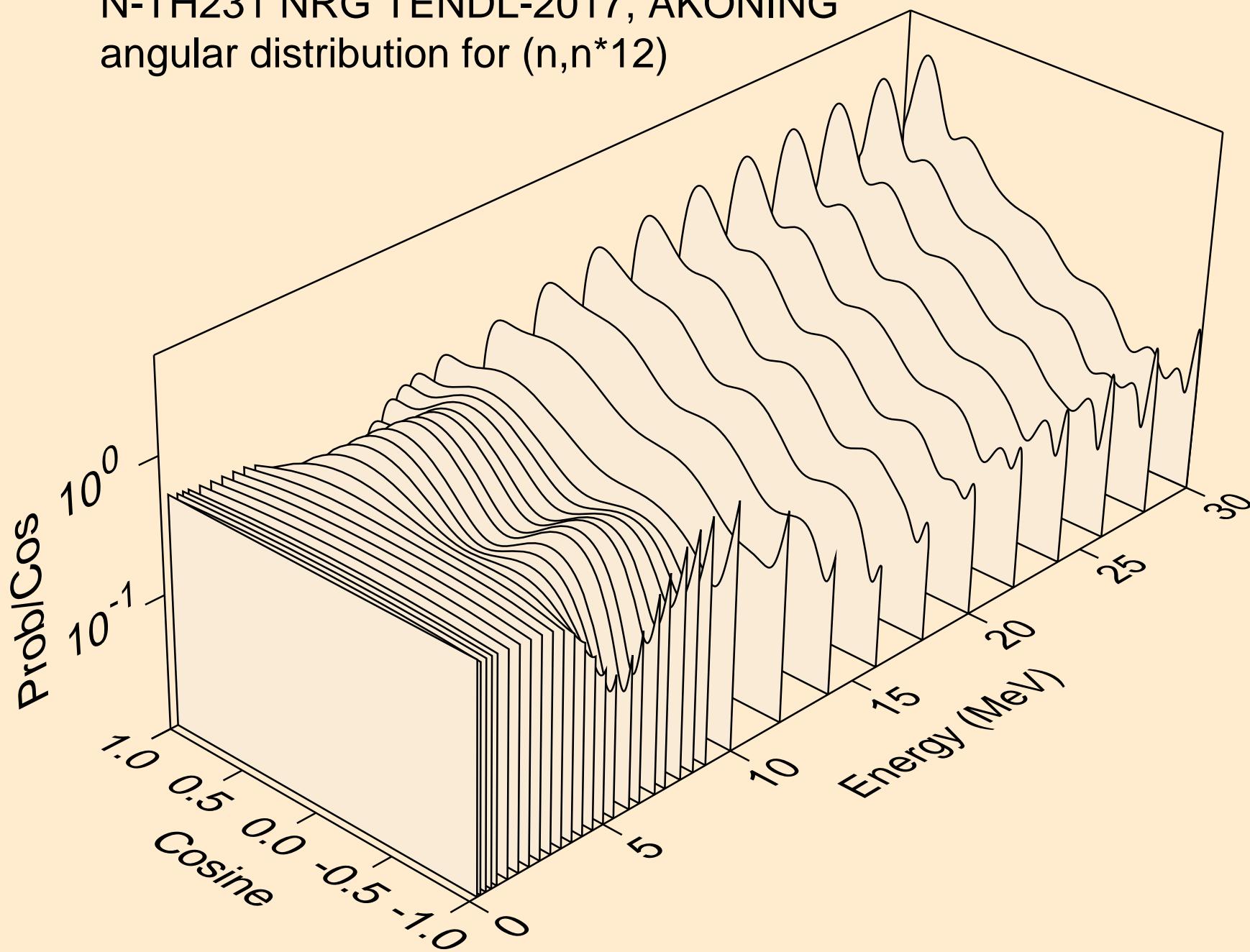
N-TH231 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*10)$



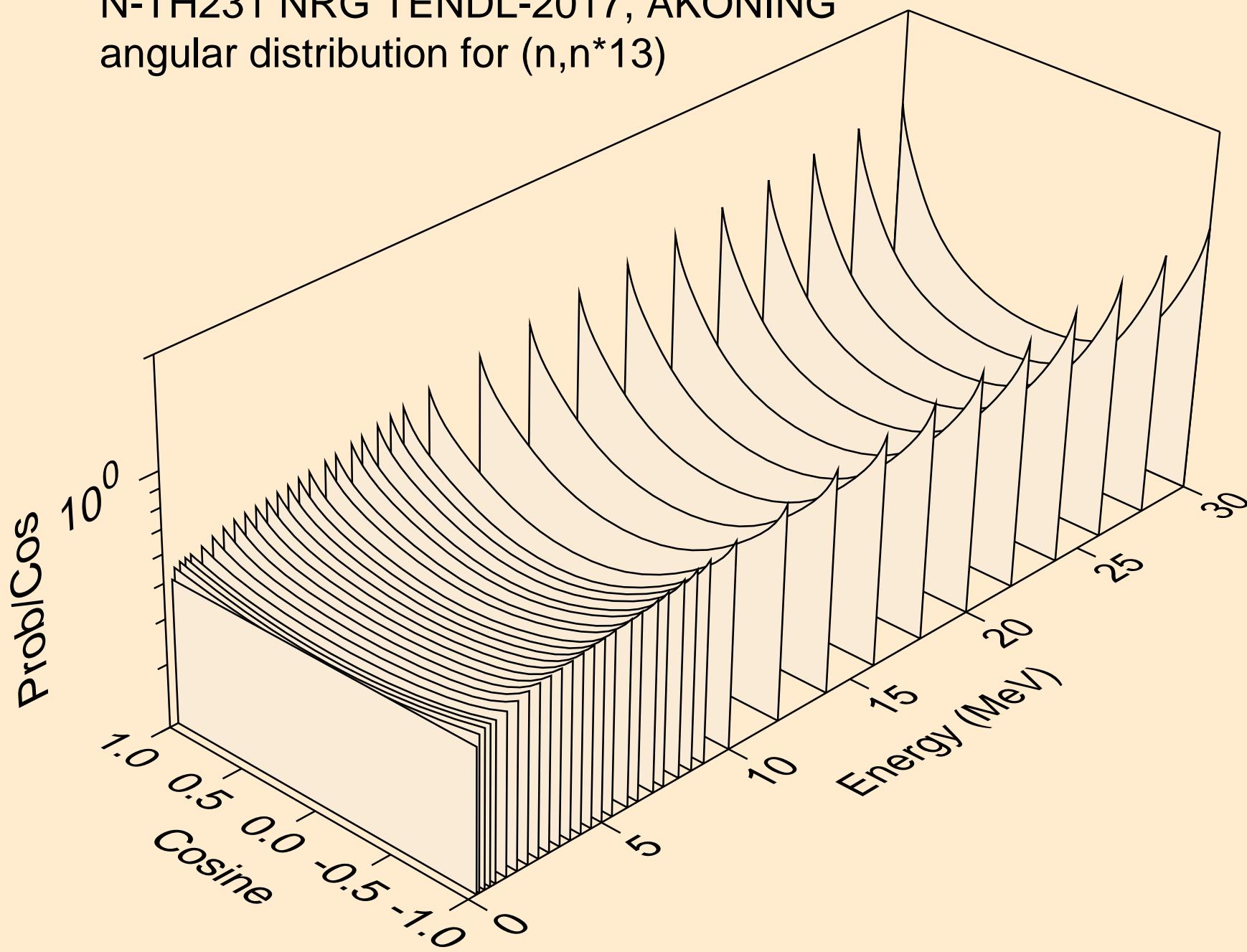
N-TH231 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*11)



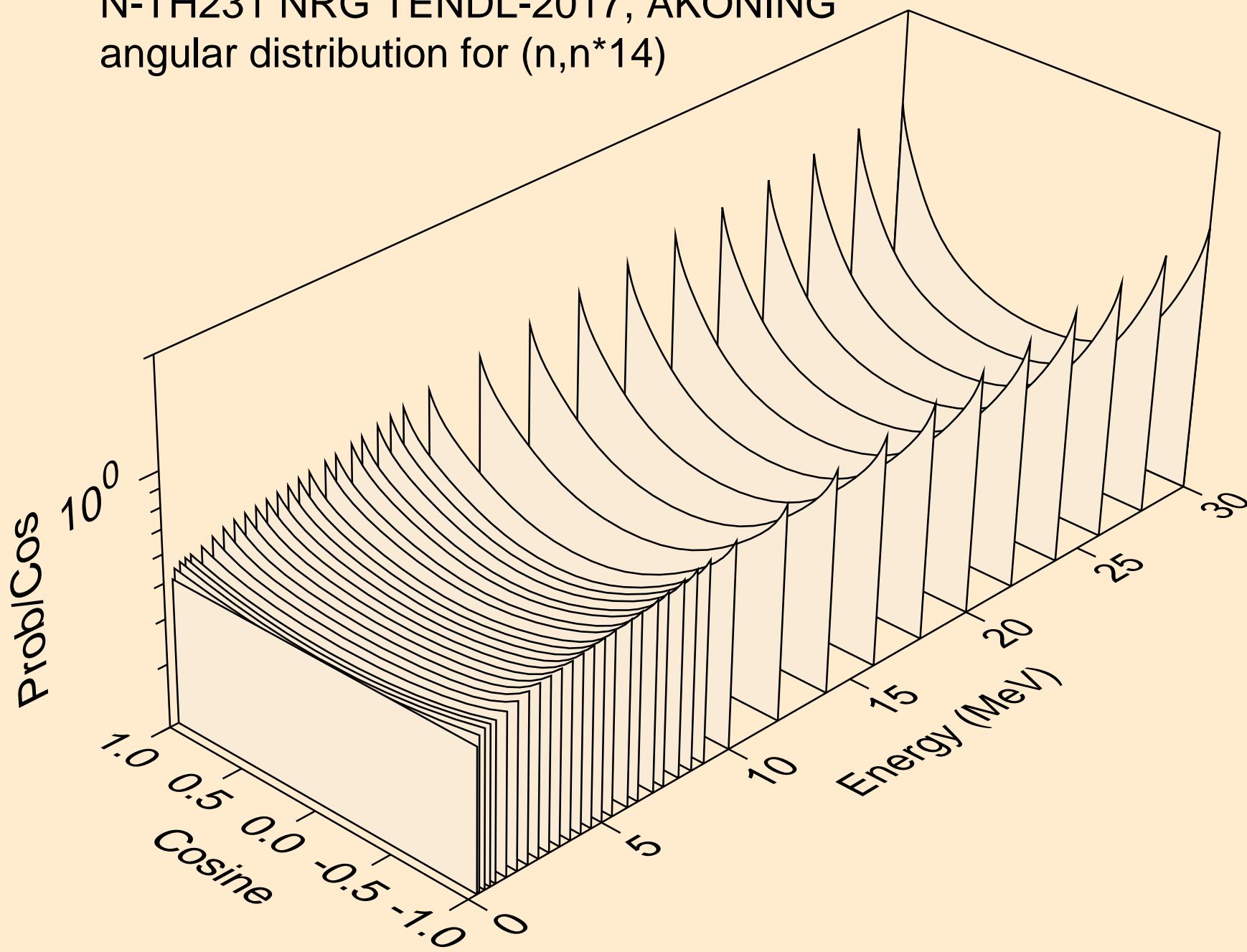
N-TH231 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*12)$



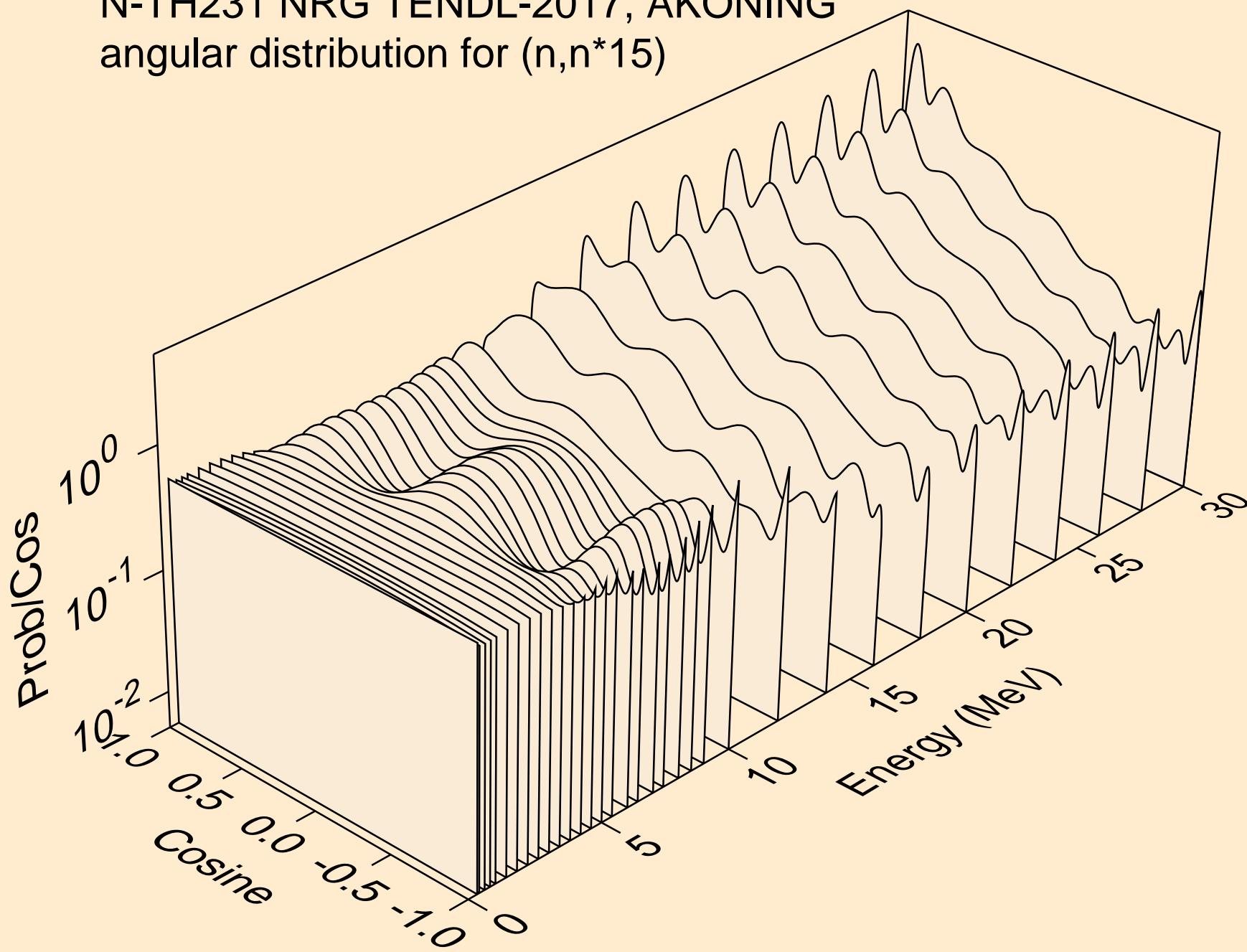
N-TH231 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*13)



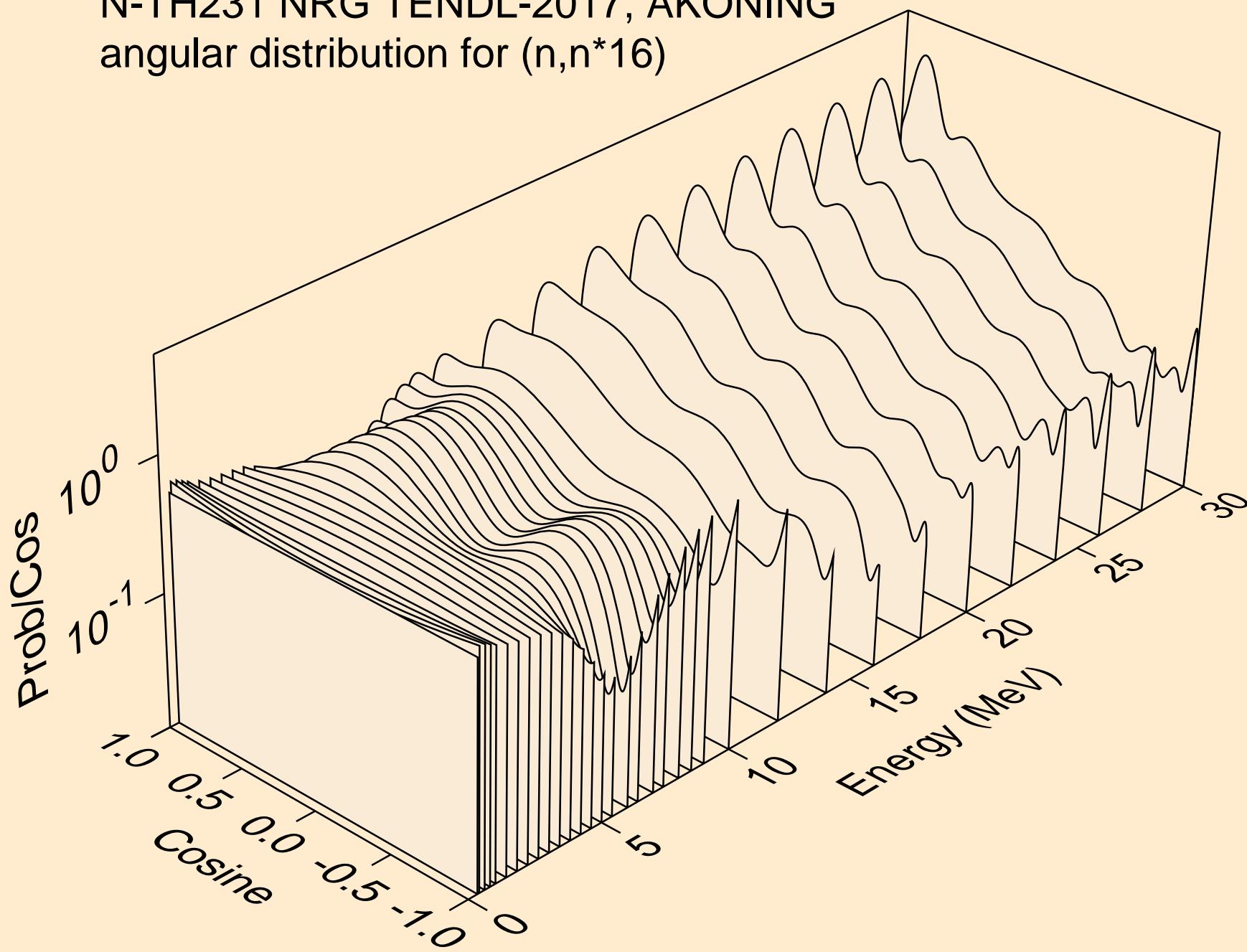
N-TH231 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*14)



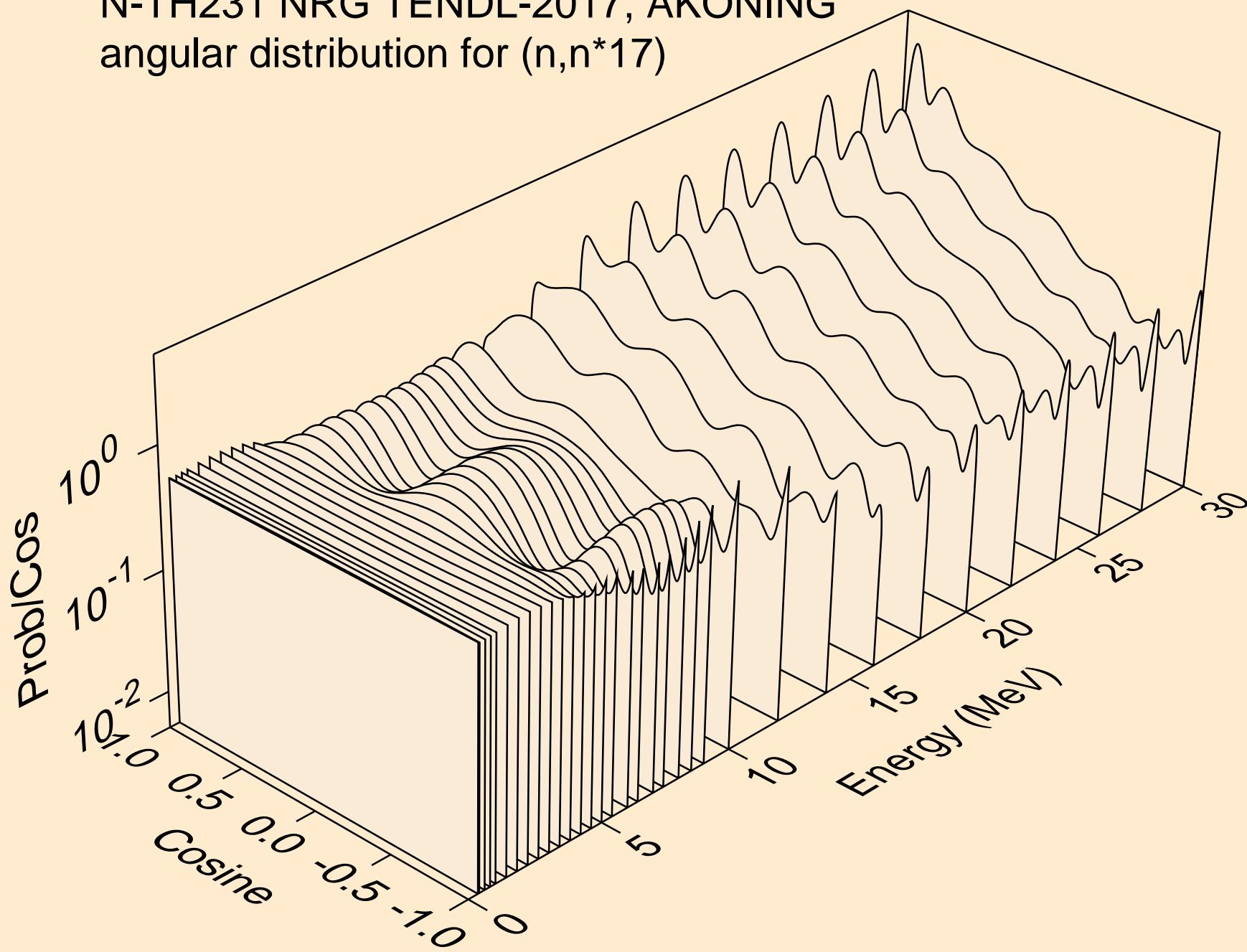
N-TH231 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*15)$



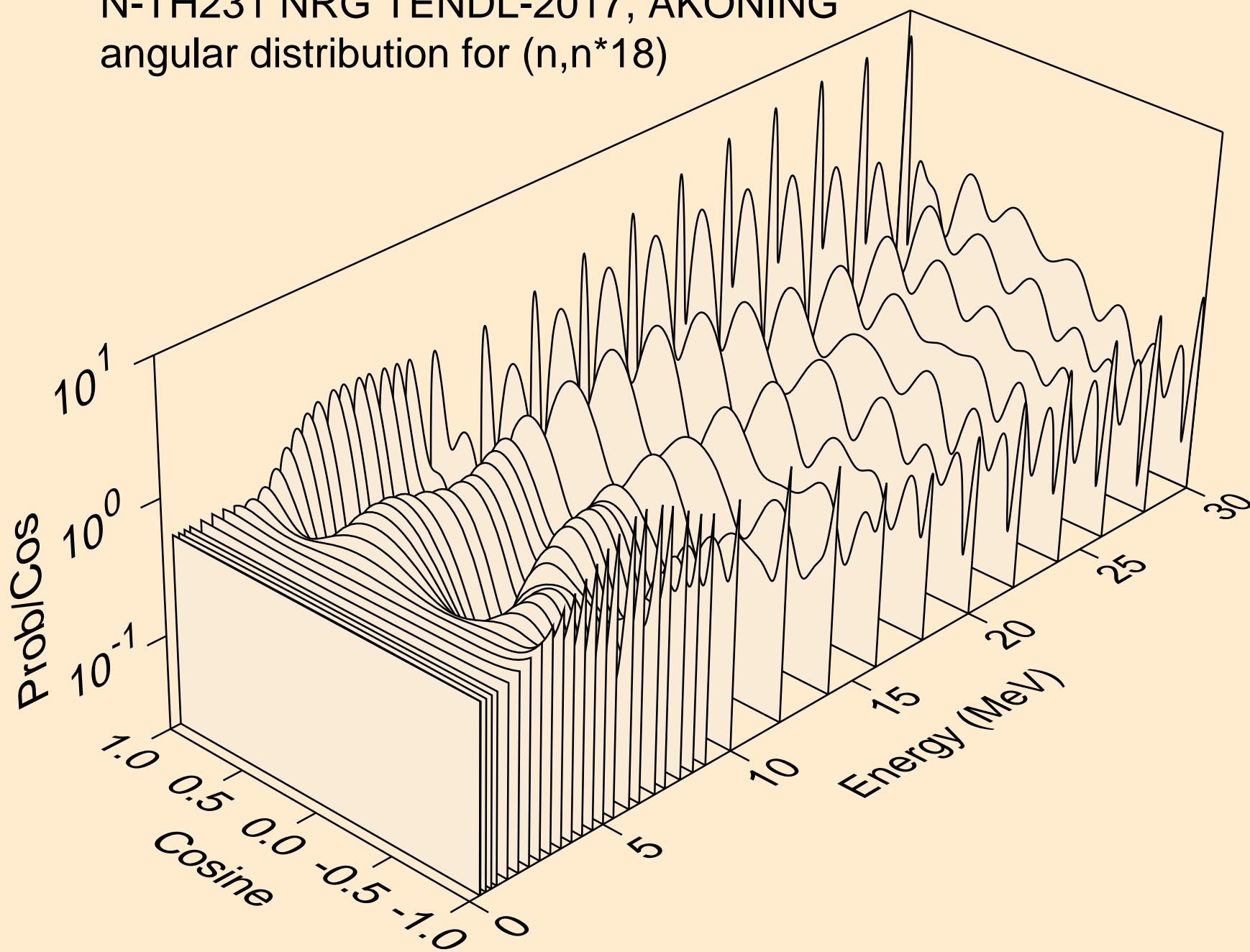
N-TH231 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*16)$



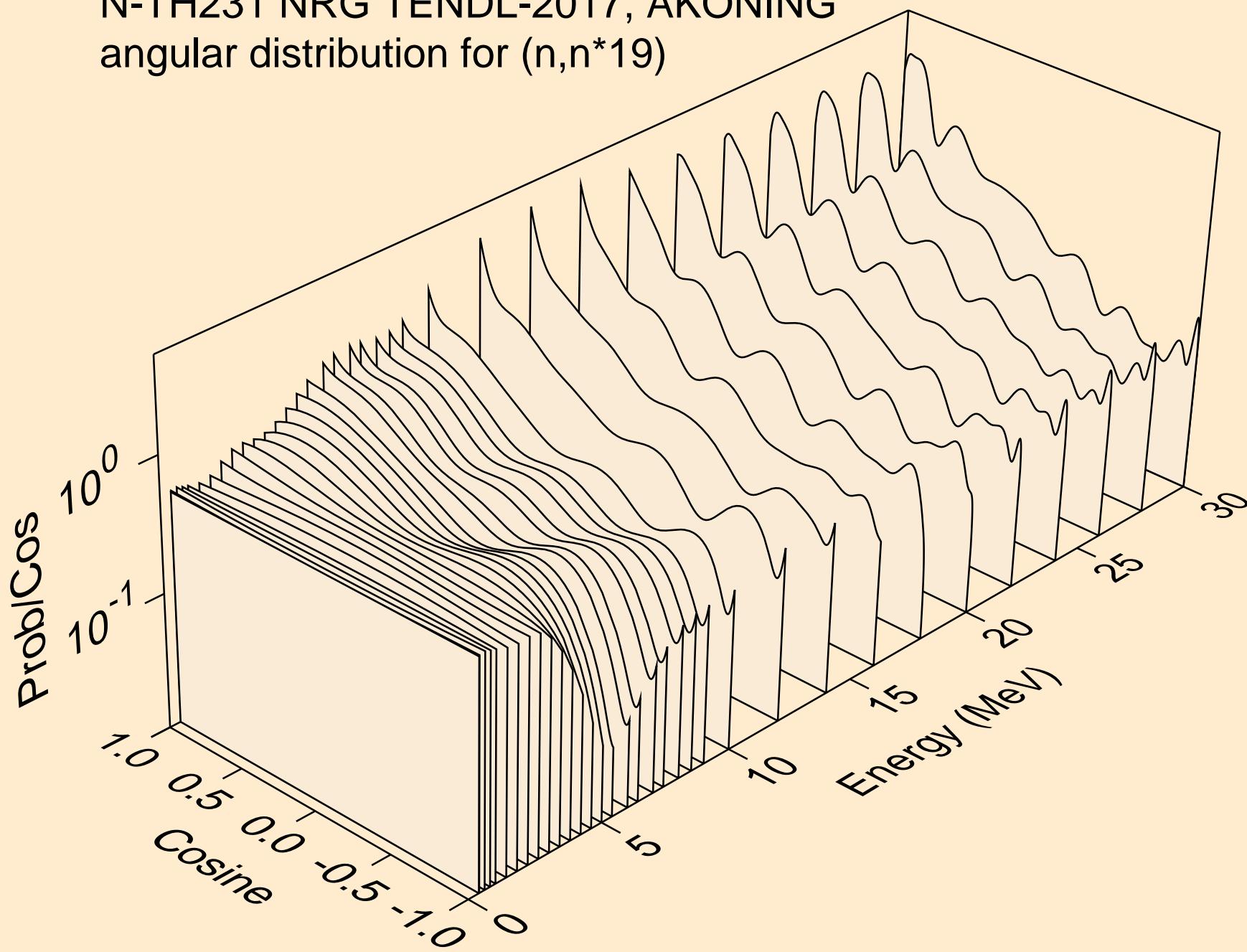
N-TH231 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*17)$



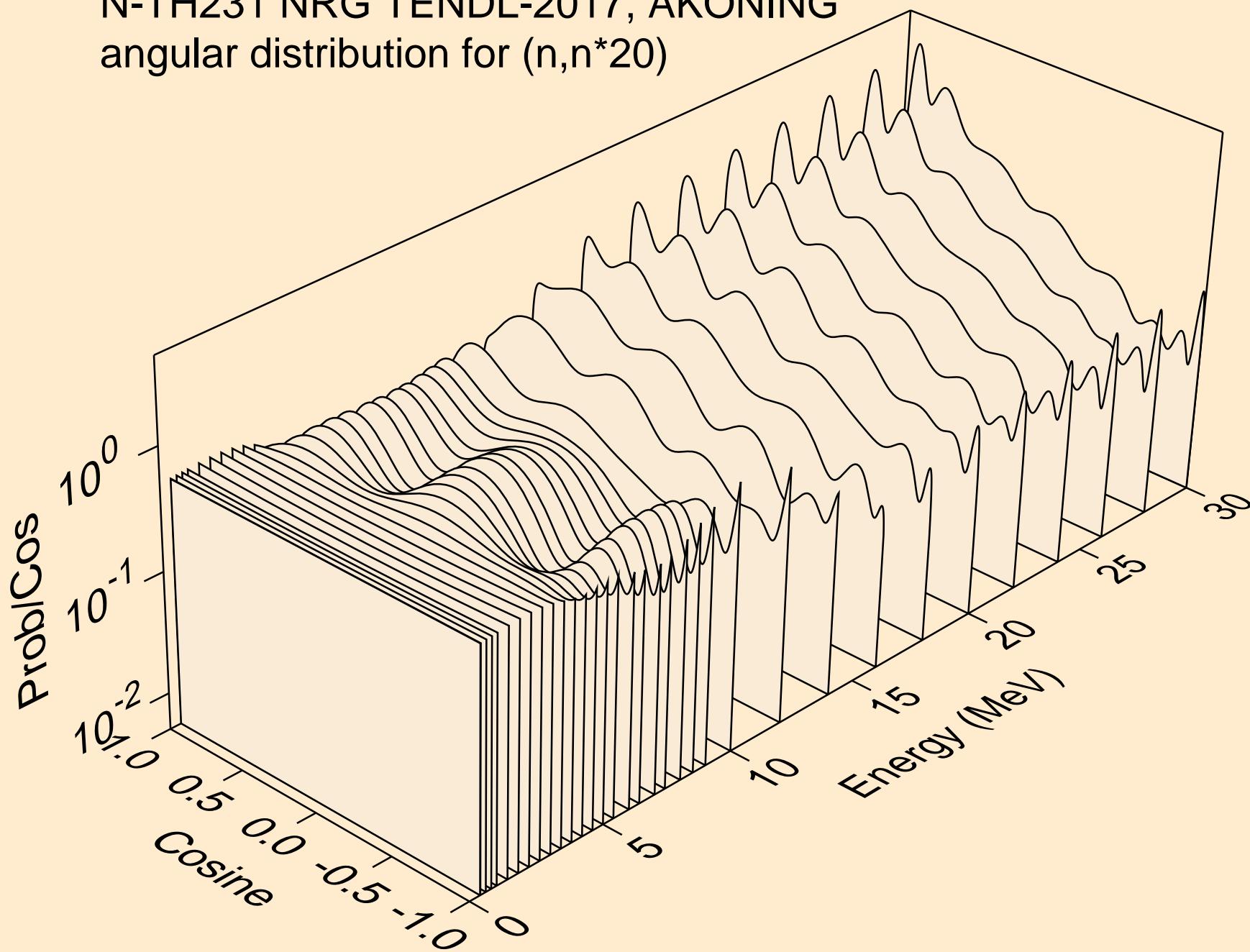
N-TH231 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*18)$



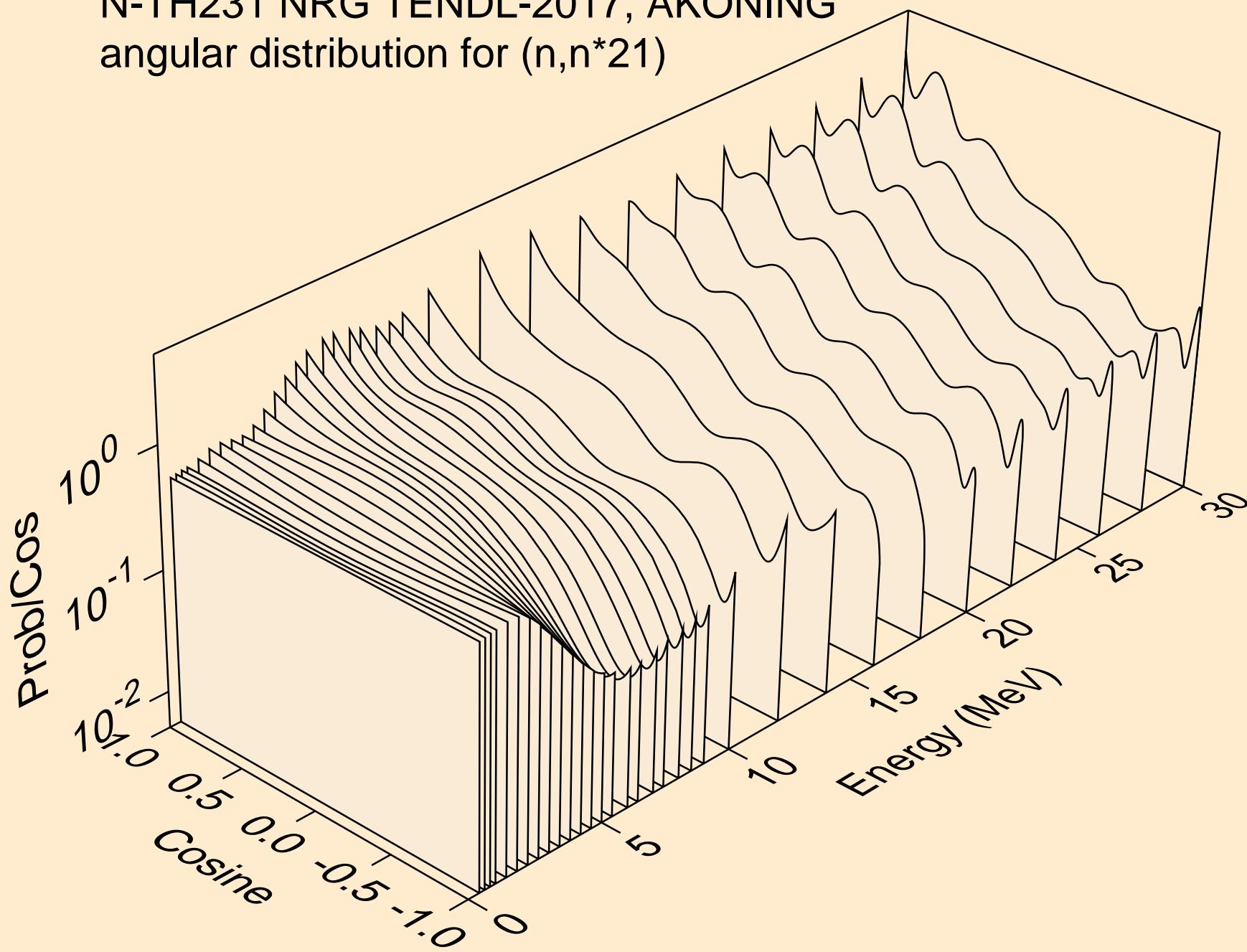
N-TH231 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*19)$



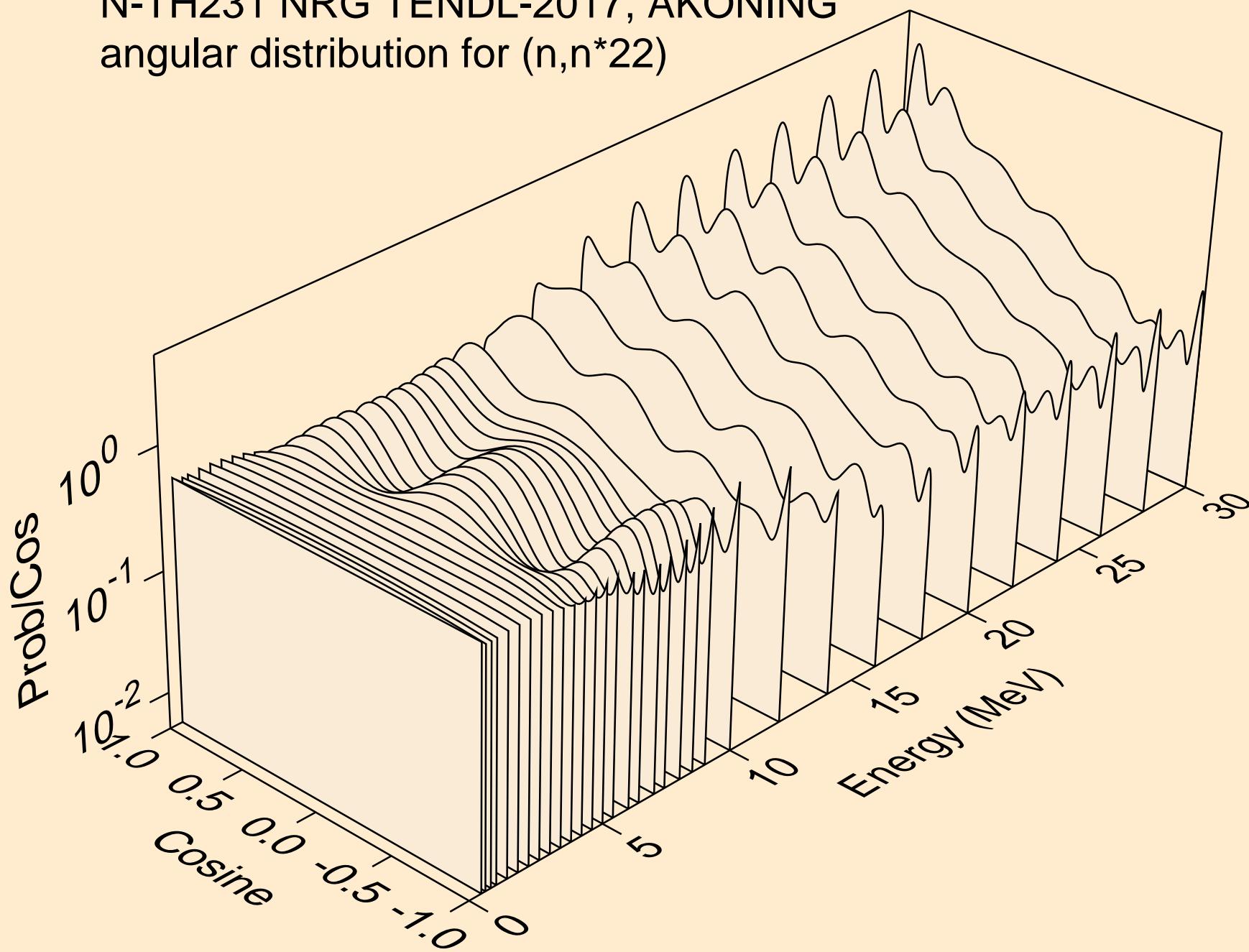
N-TH231 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*)^{20}$



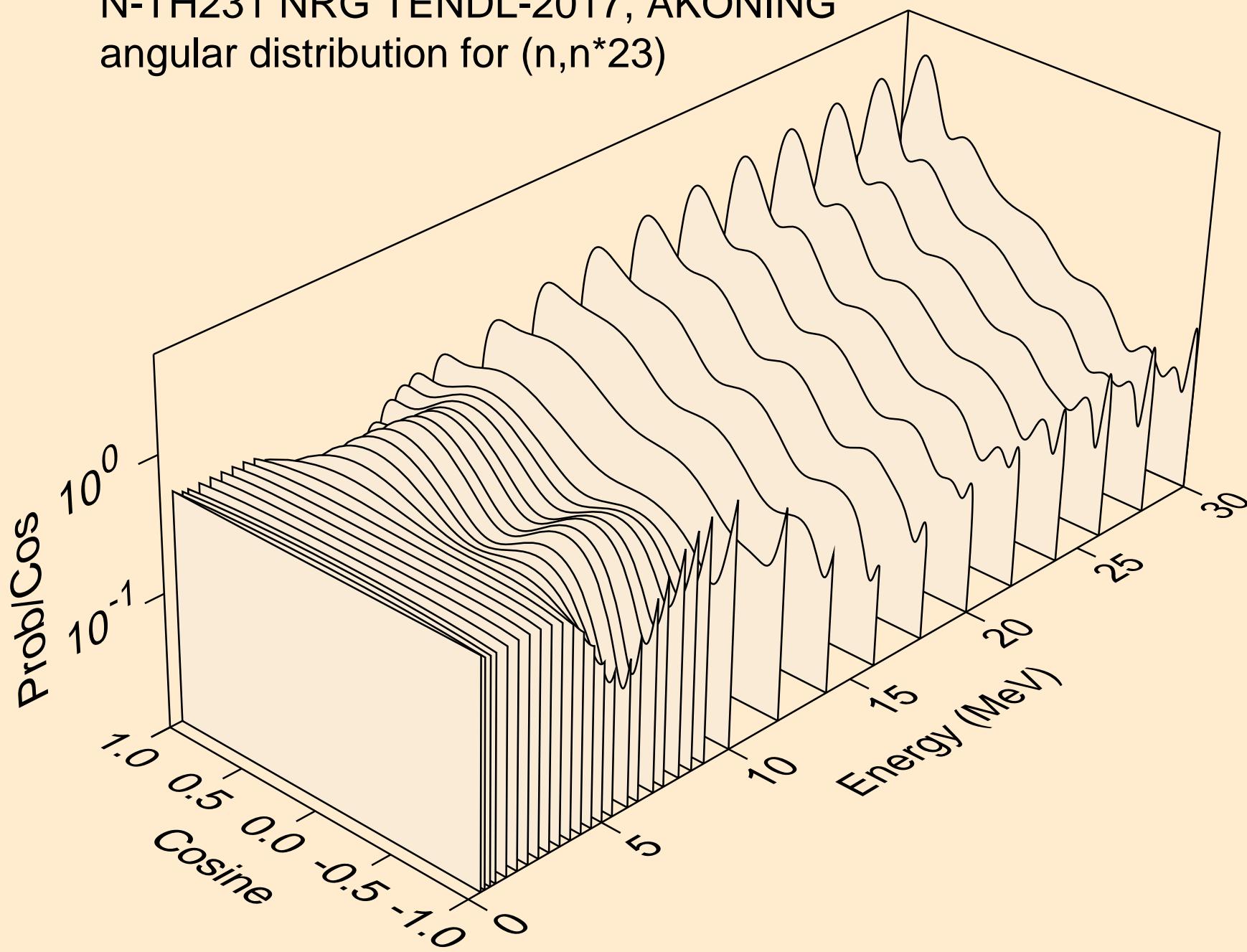
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angular distribution for  $(n,n^*21)$



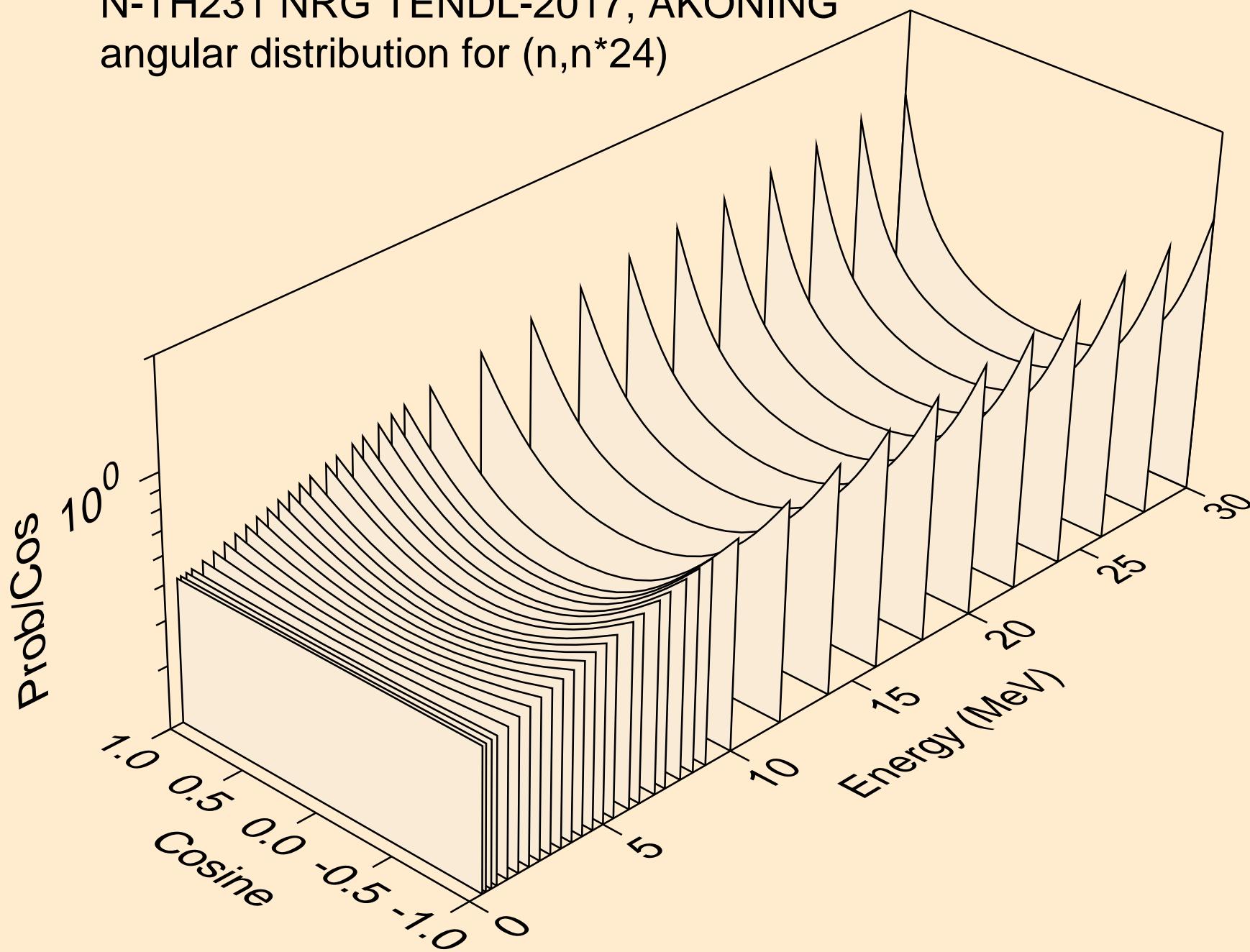
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angular distribution for  $(n,n^*)_{22}$



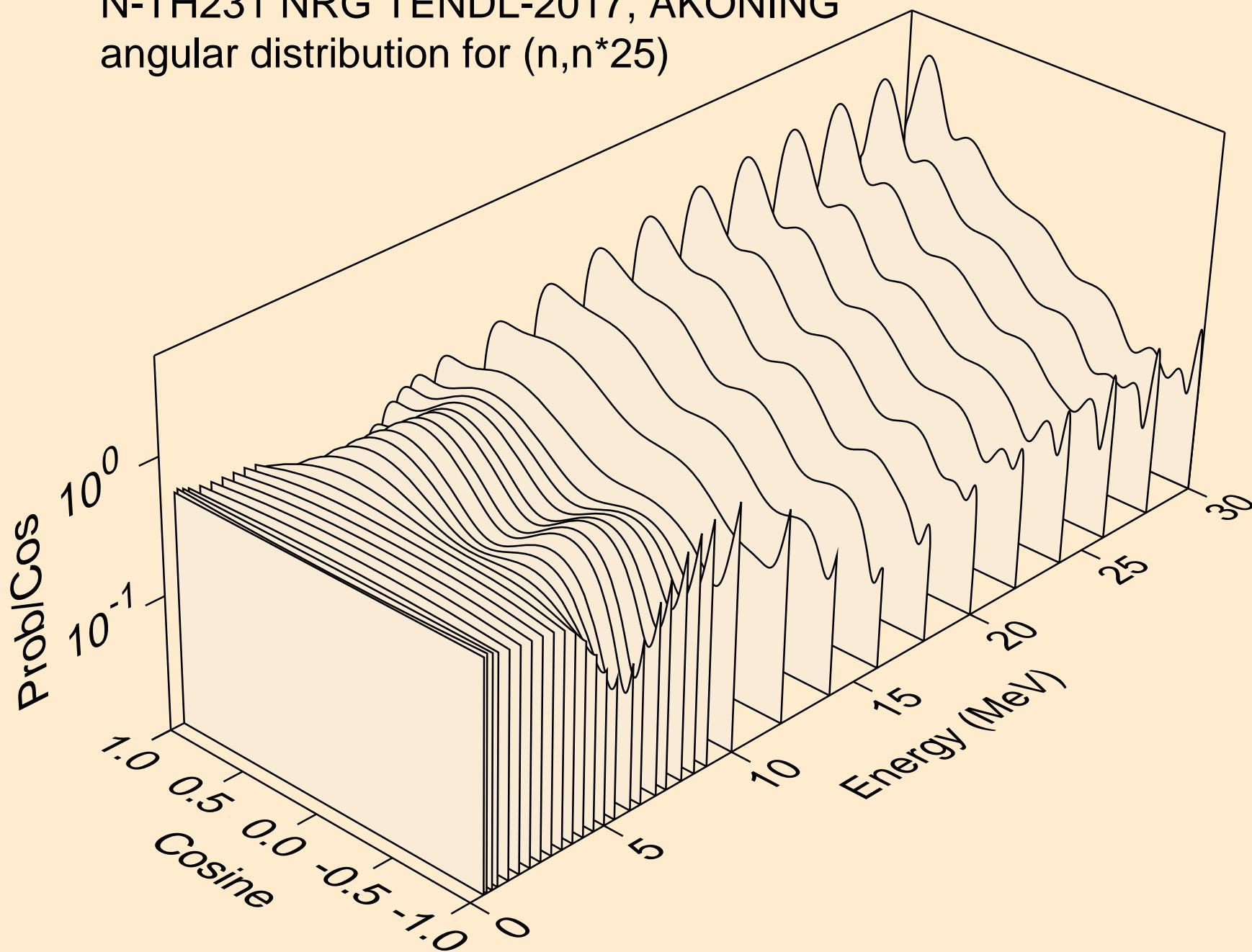
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angular distribution for  $(n,n^*23)$



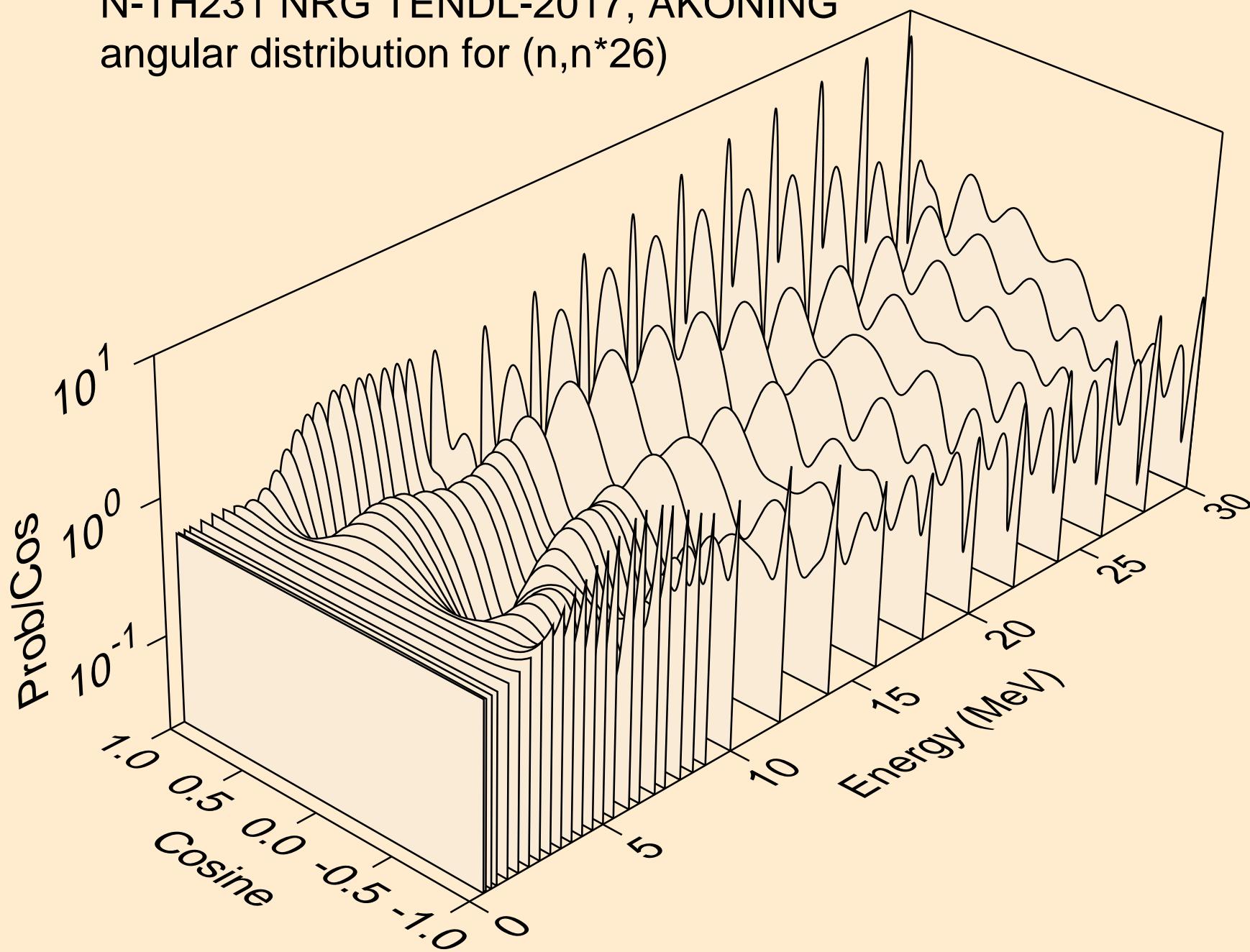
N-TH231 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*)^{24}$



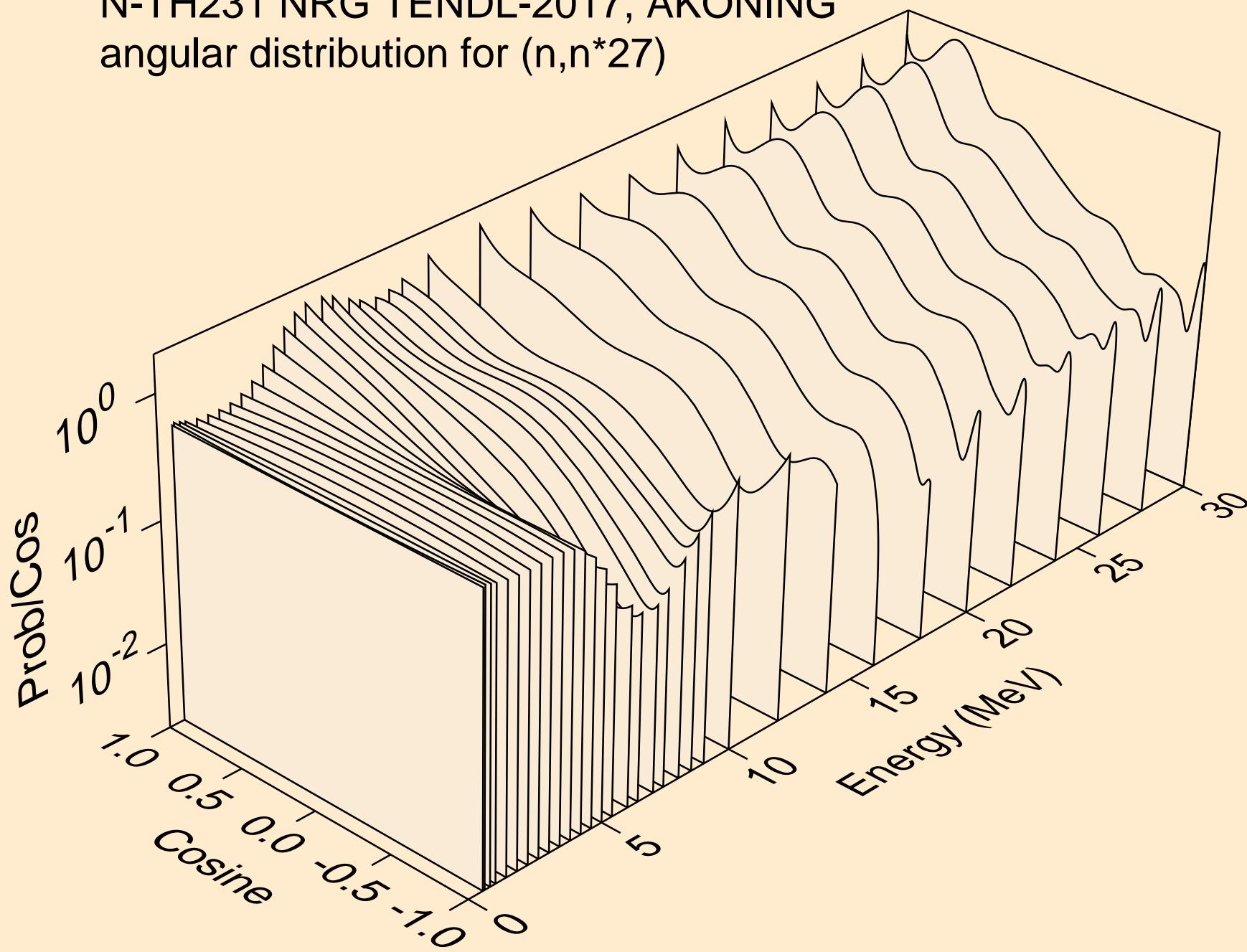
N-TH231 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*)_{25}$



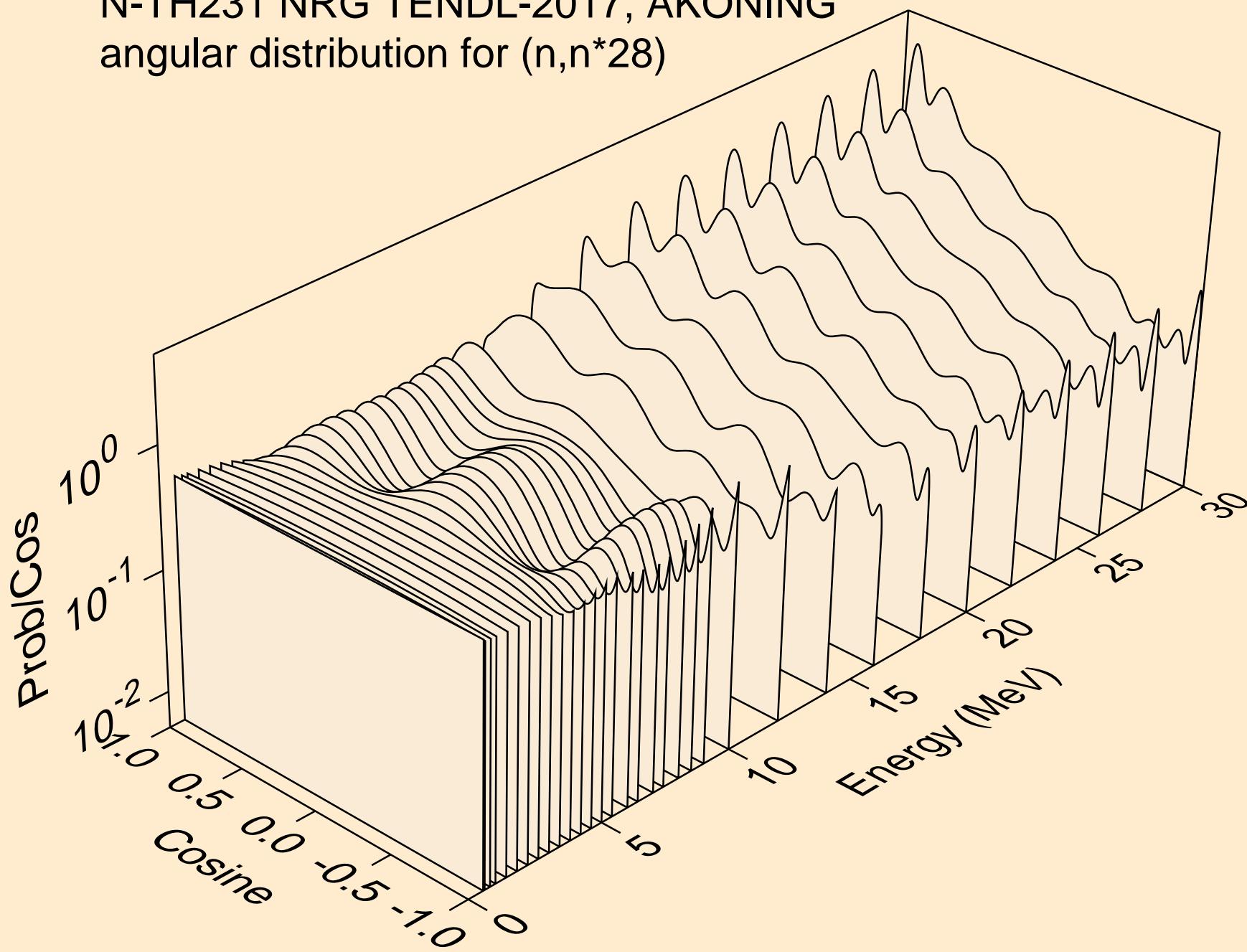
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angular distribution for  $(n,n^*)_{26}$



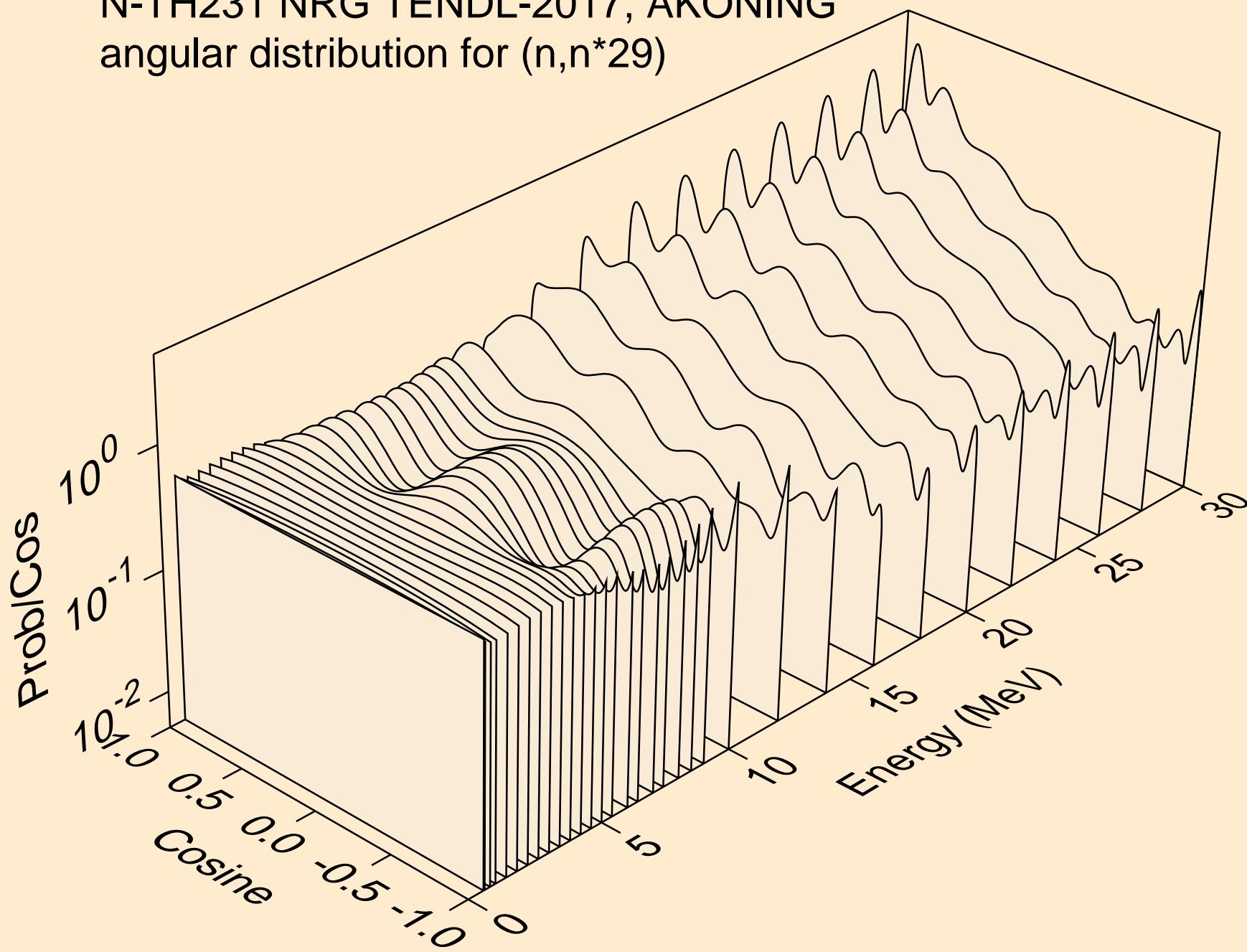
N-TH231 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*)_{27}$



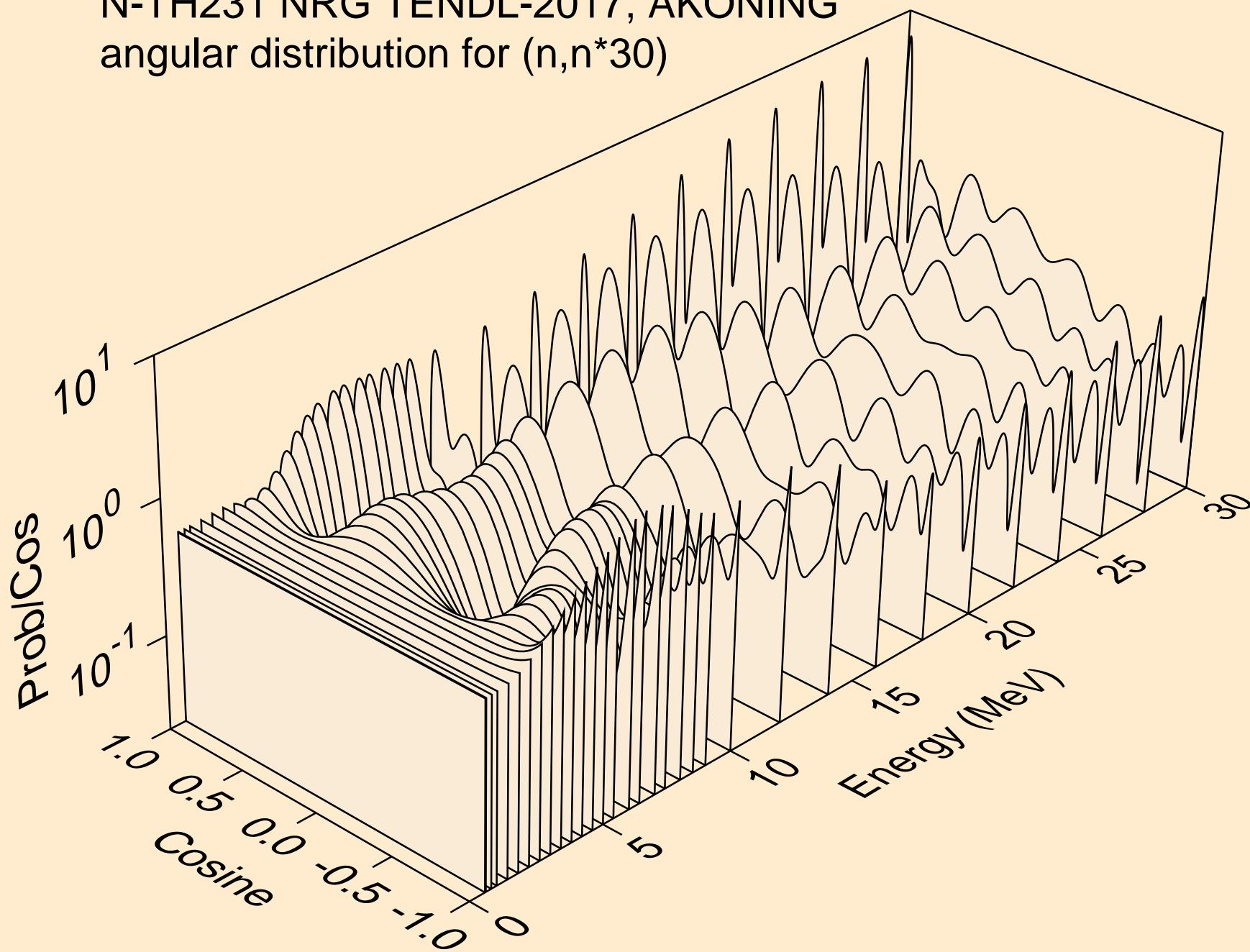
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angular distribution for  $(n,n^*)^{28}$



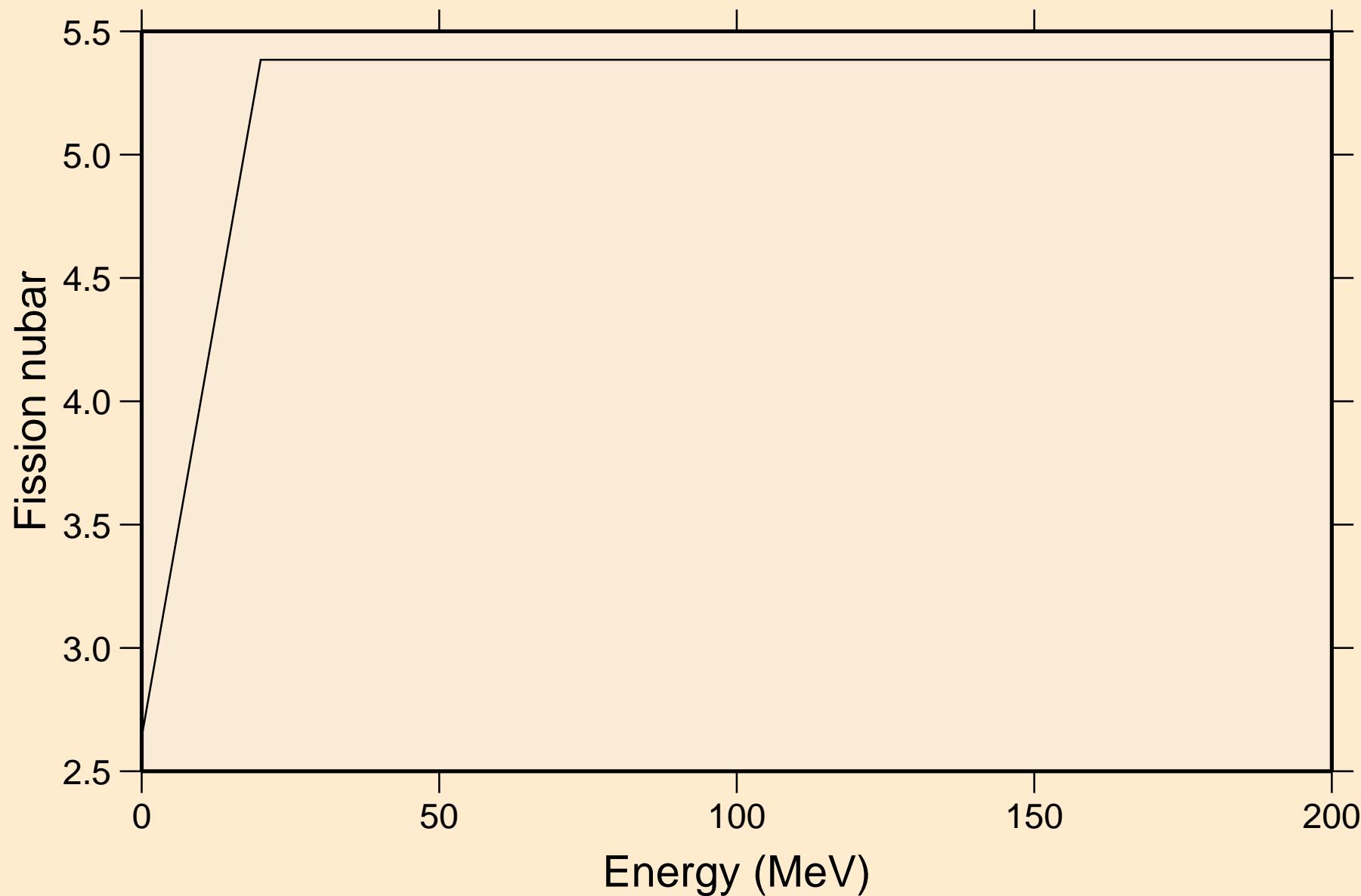
N-TH231 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*29)$



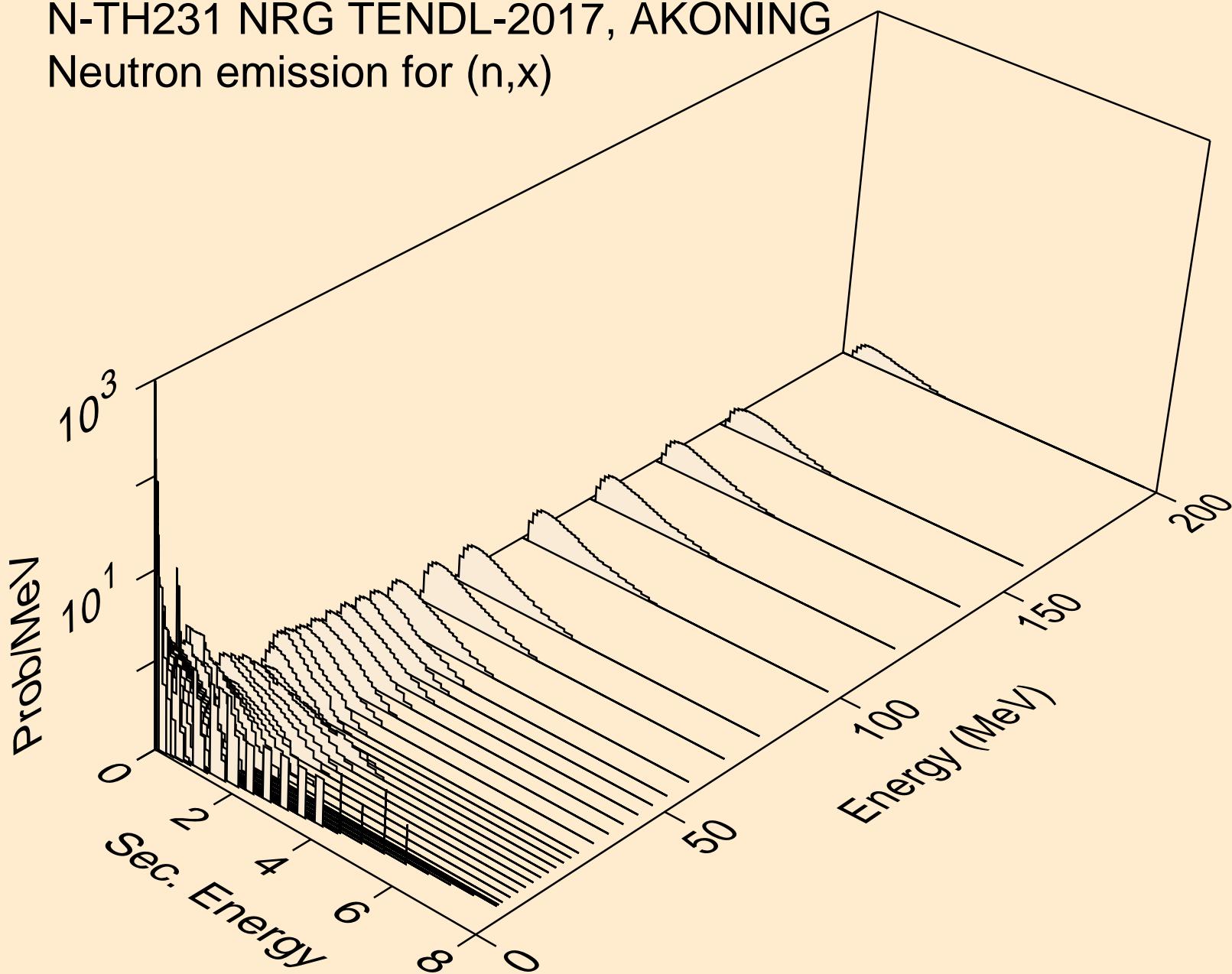
N-TH231 NRG TENDL-2017, AKONING  
angular distribution for  $(n,n^*)30$



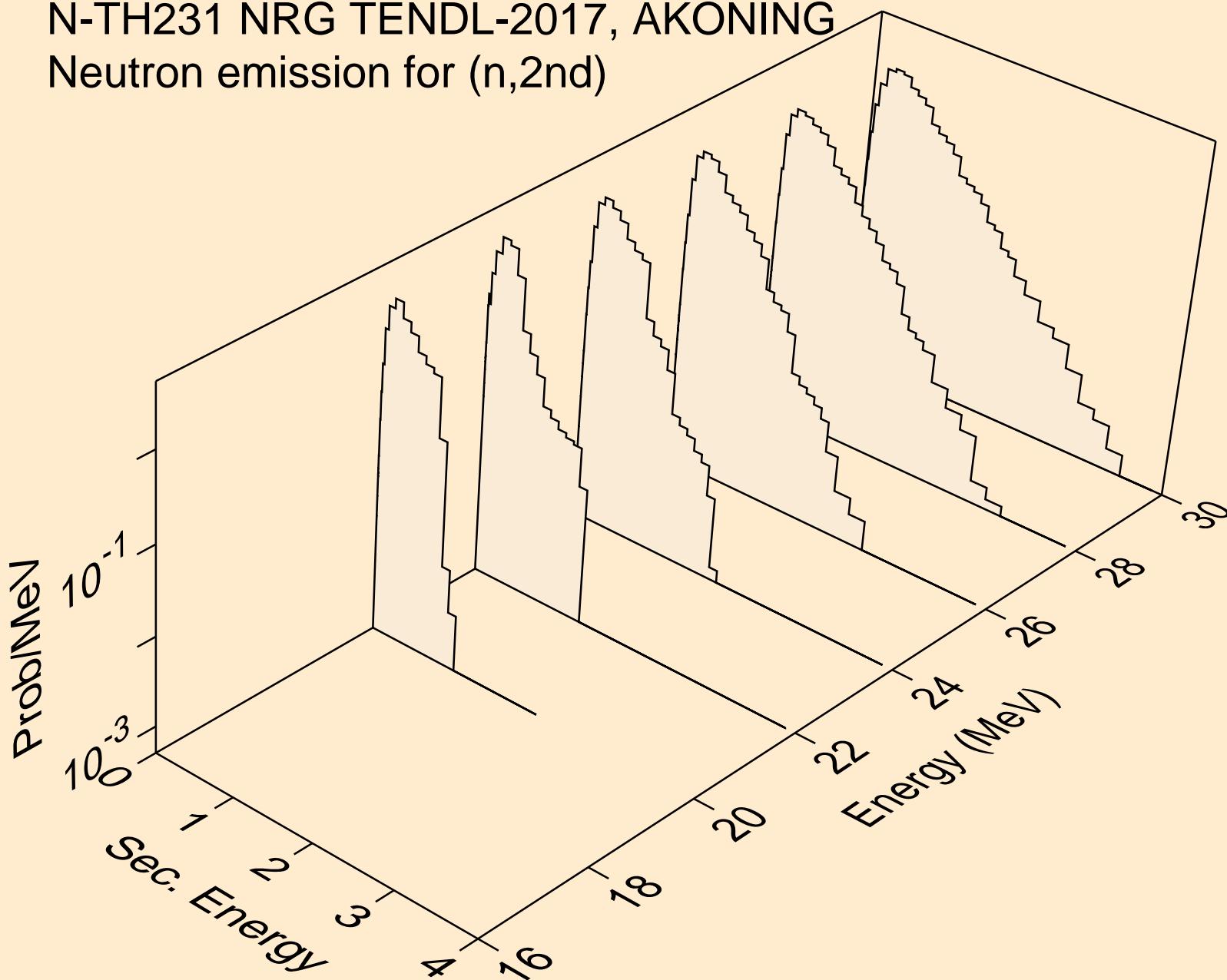
N-TH231 NRG TENDL-2017, AKONING  
Total fission nubar



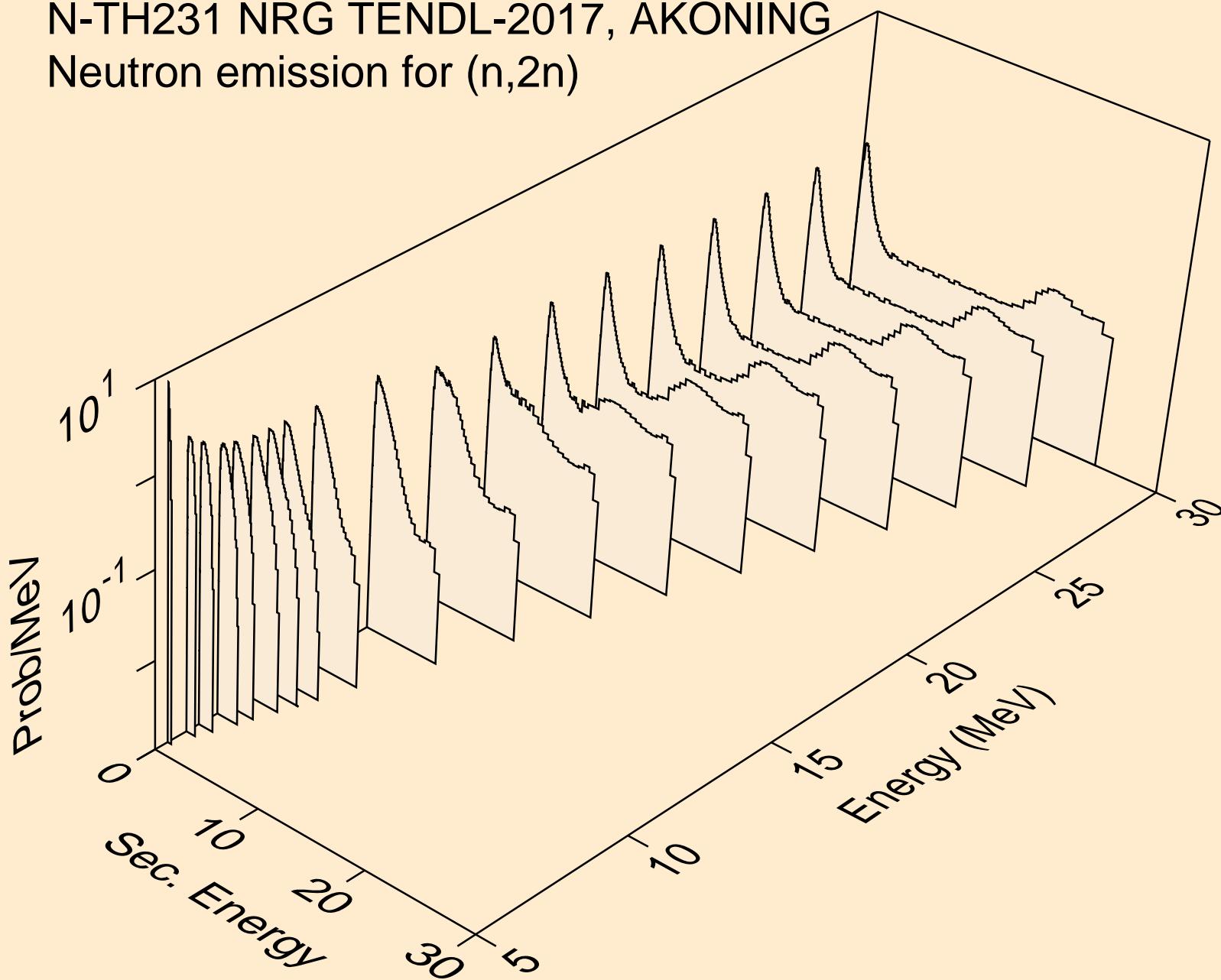
N-TH231 NRG TENDL-2017, AKONING  
Neutron emission for (n,x)



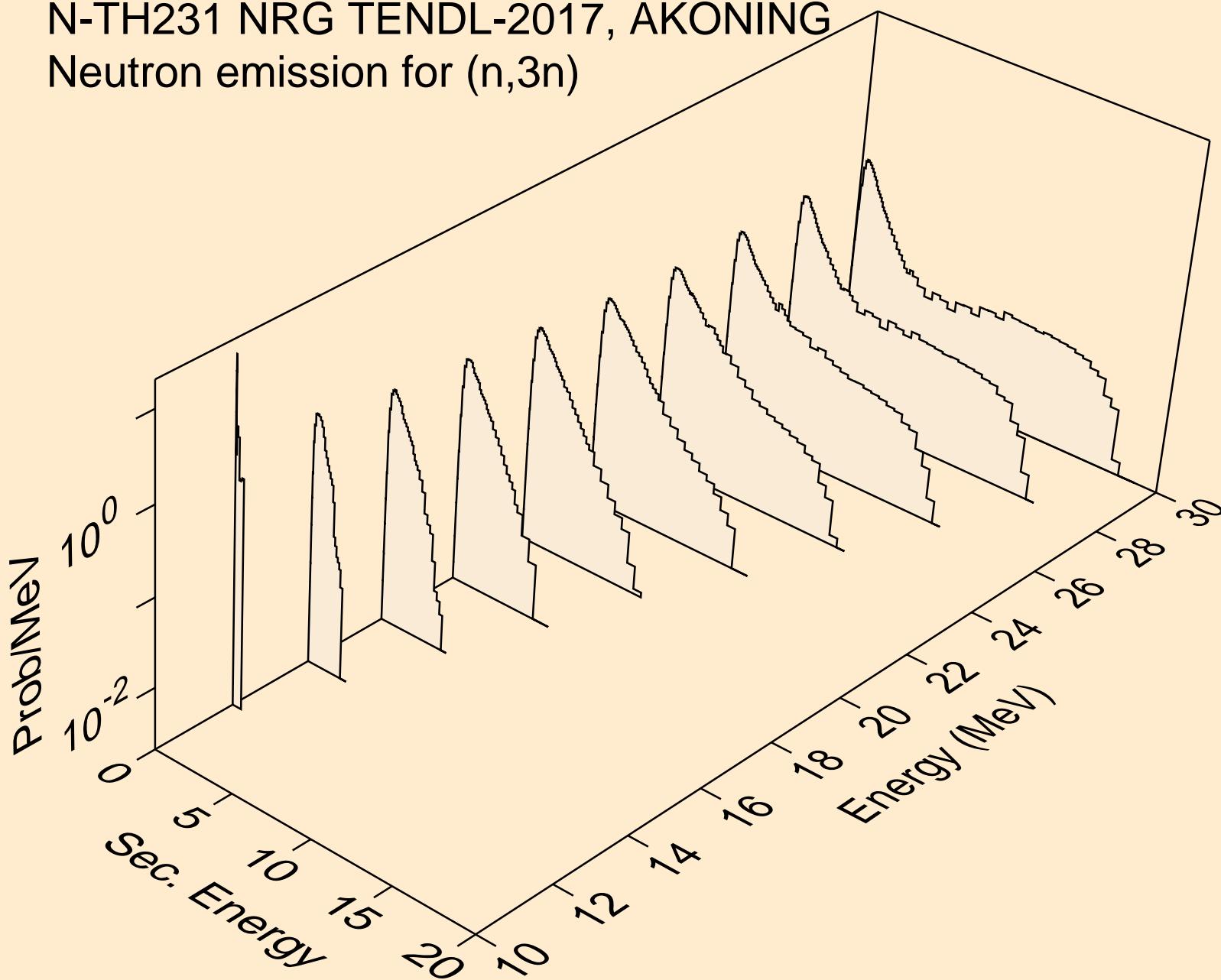
N-TH231 NRG TENDL-2017, AKONING  
Neutron emission for (n,2nd)



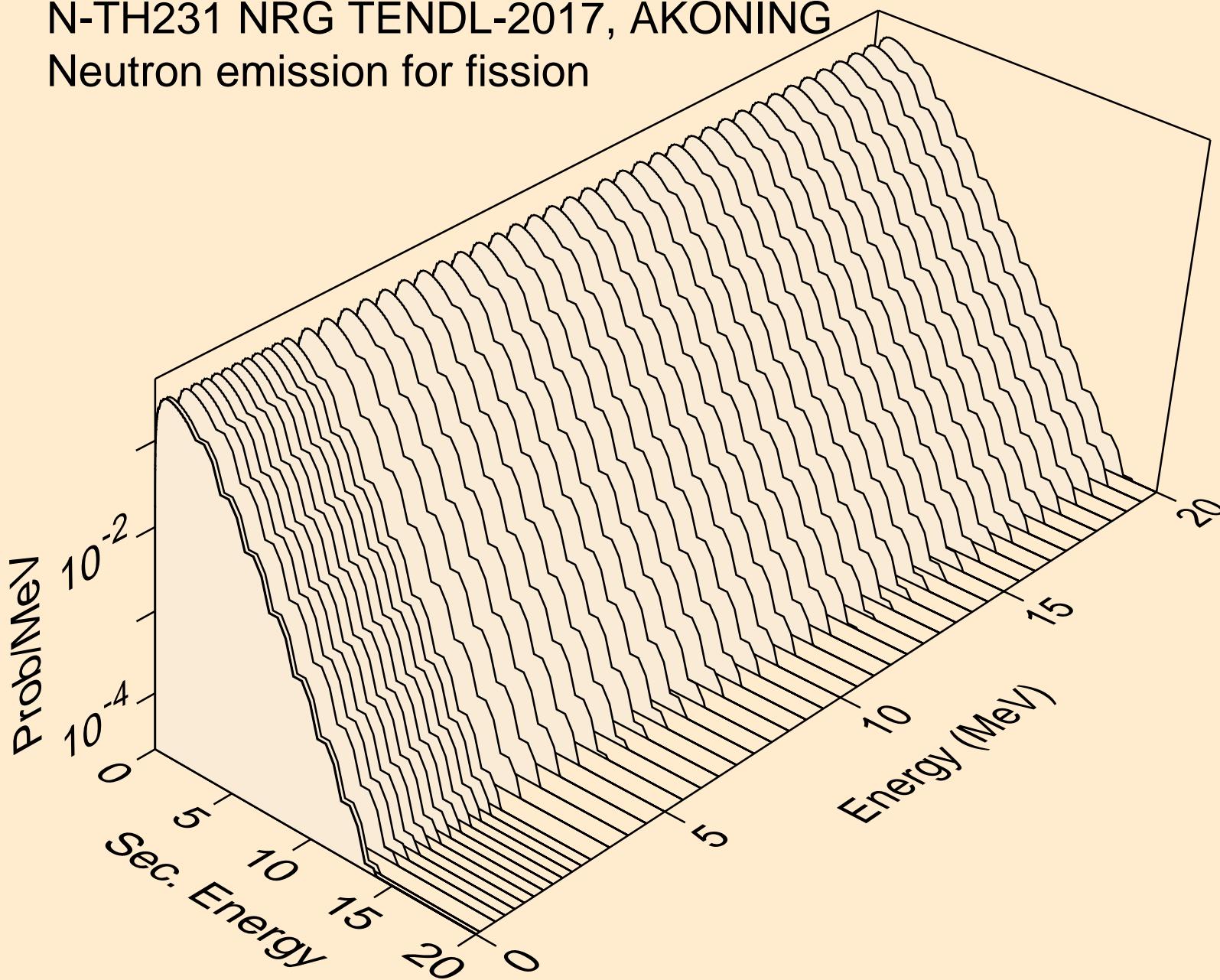
N-TH231 NRG TENDL-2017, AKONING  
Neutron emission for (n,2n)



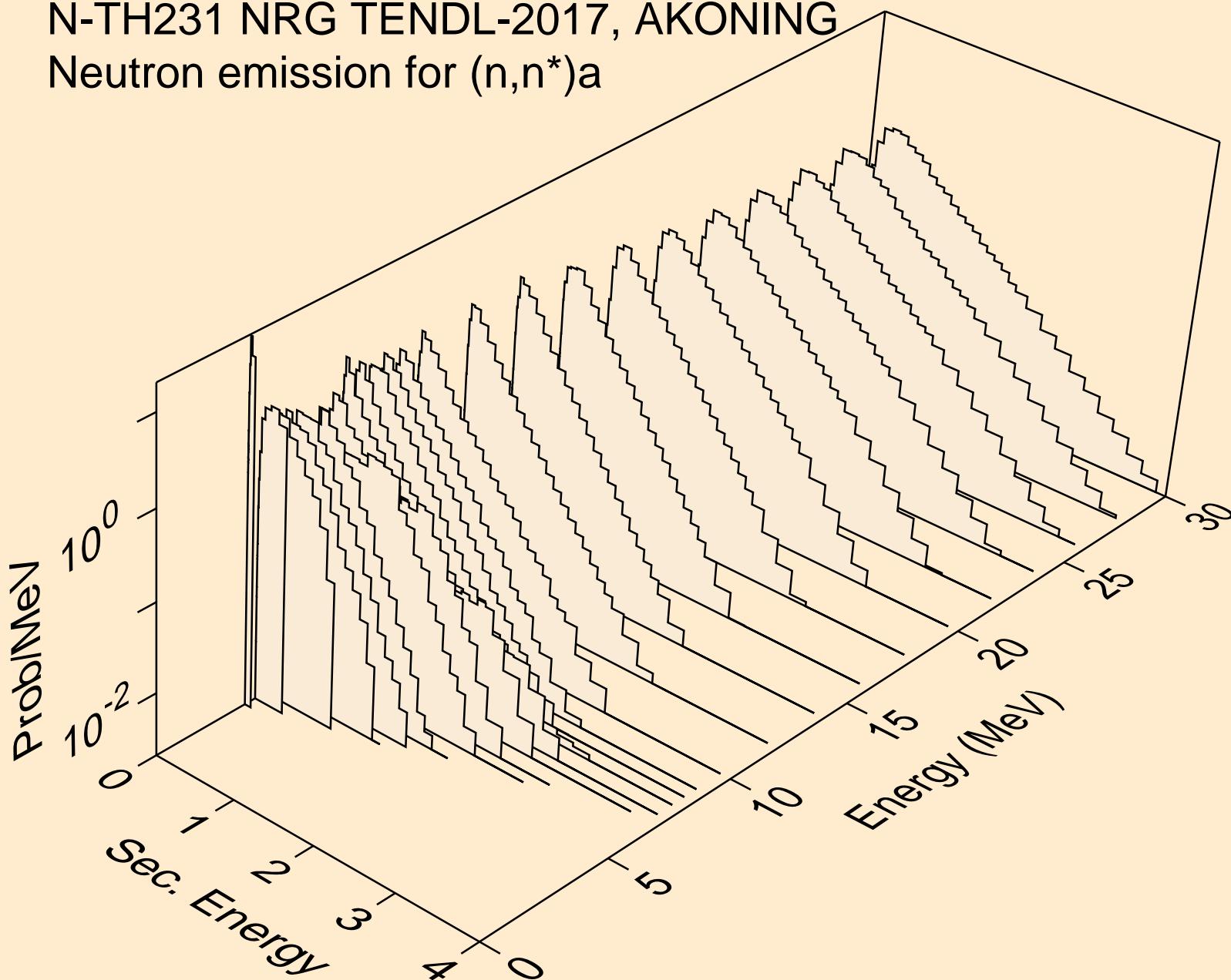
N-TH231 NRG TENDL-2017, AKONING  
Neutron emission for (n,3n)



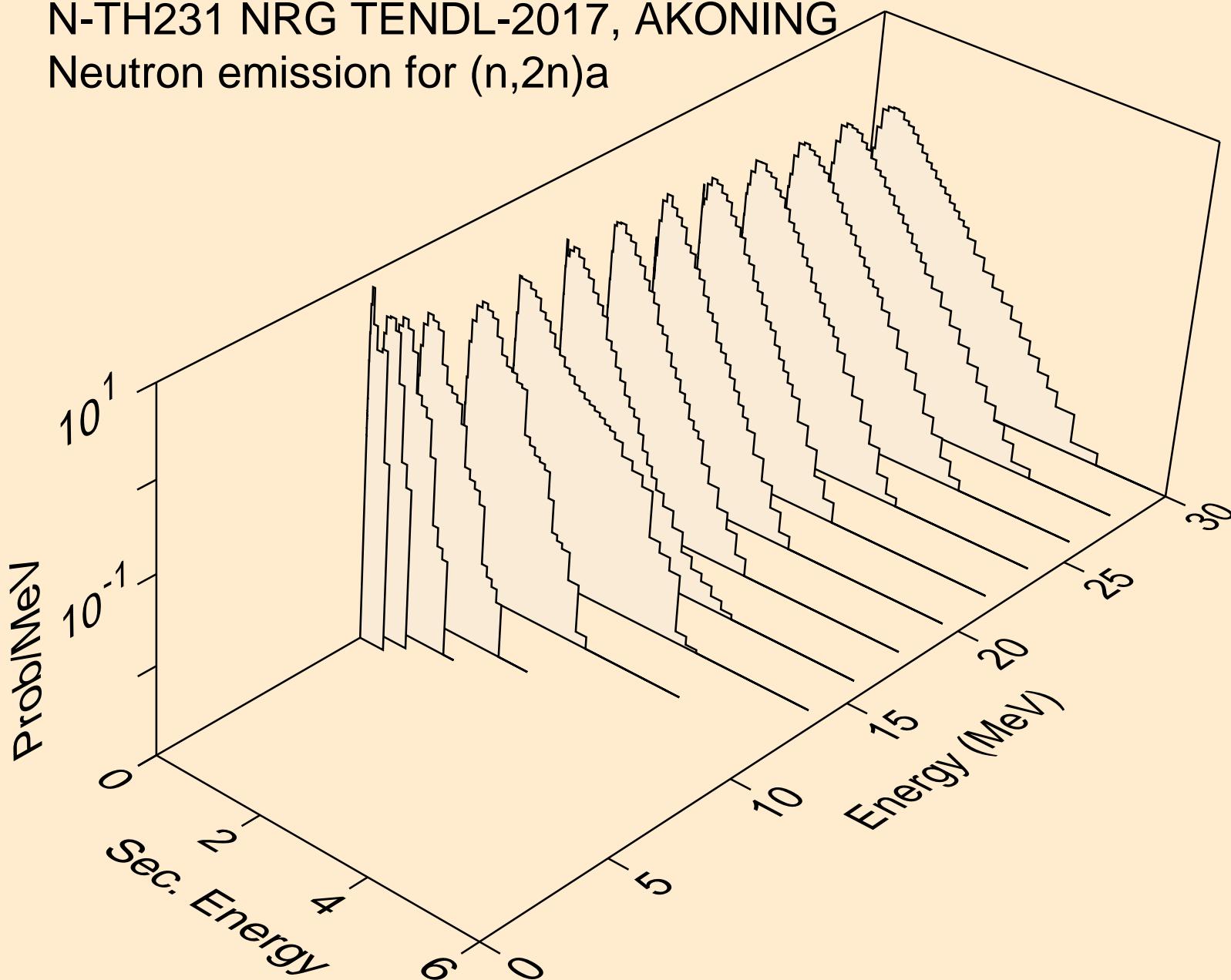
N-TH231 NRG TENDL-2017, AKONING  
Neutron emission for fission



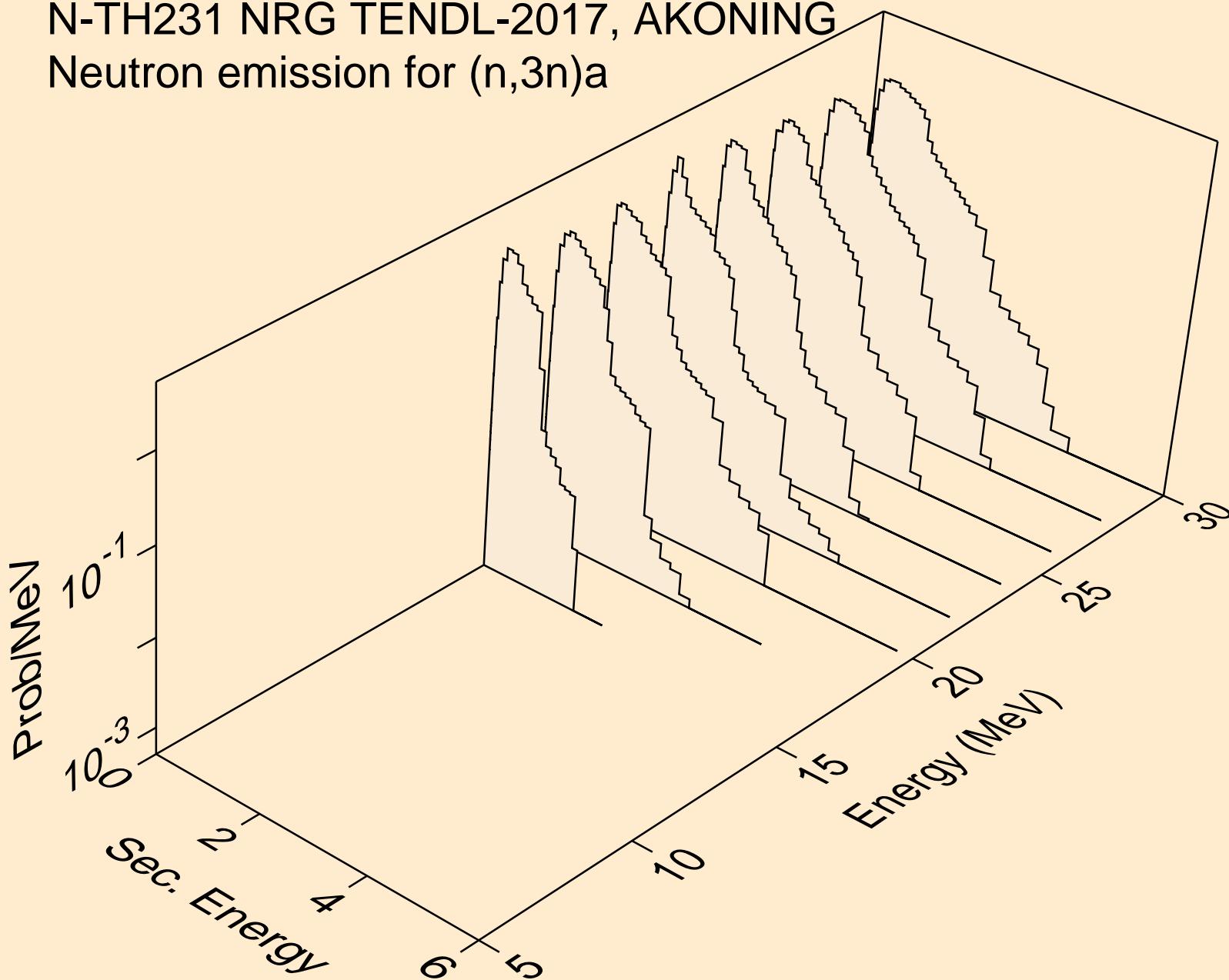
N-TH231 NRG TENDL-2017, AKONING  
Neutron emission for  $(n,n^*)a$



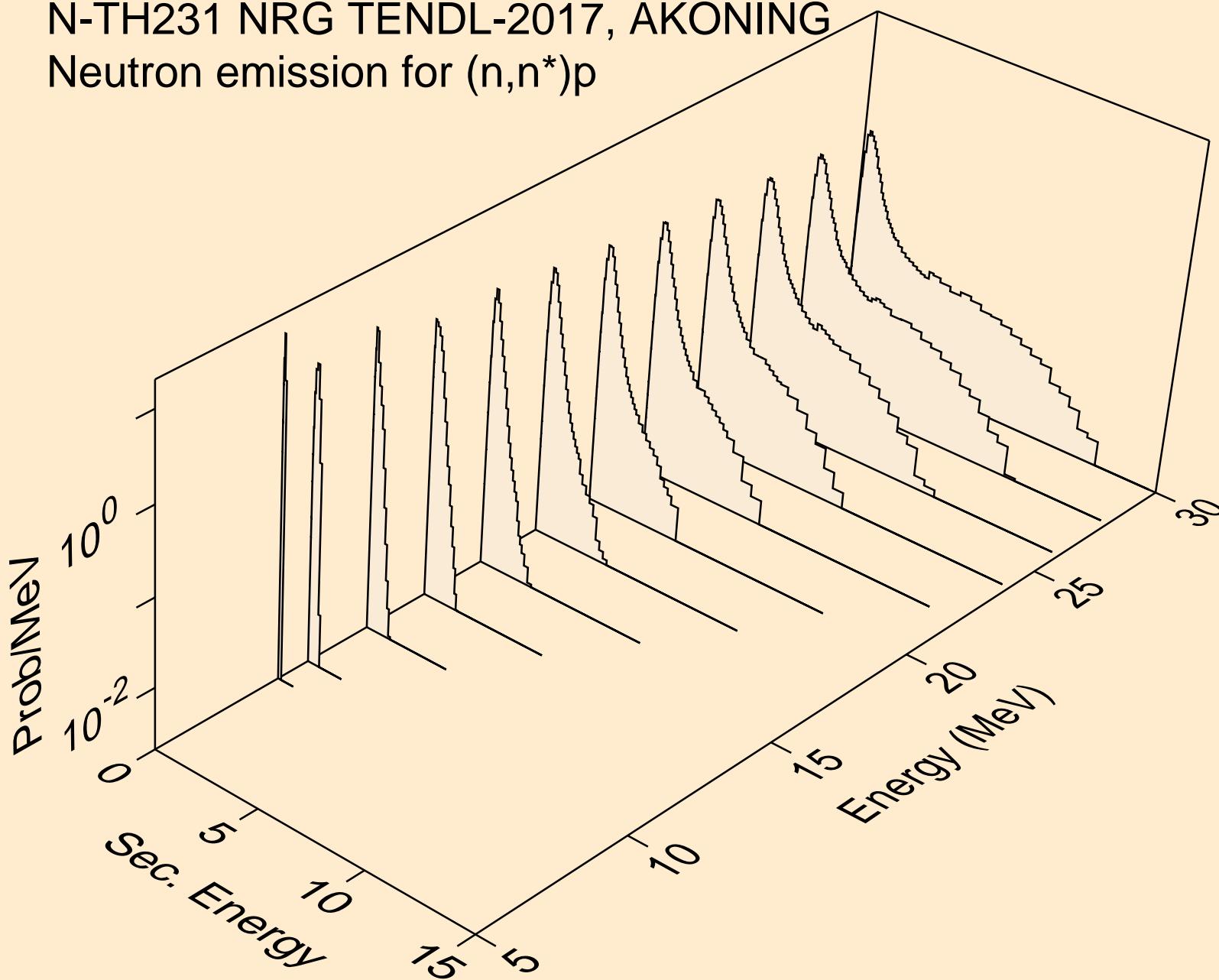
N-TH231 NRG TENDL-2017, AKONING  
Neutron emission for  $(n,2n)a$



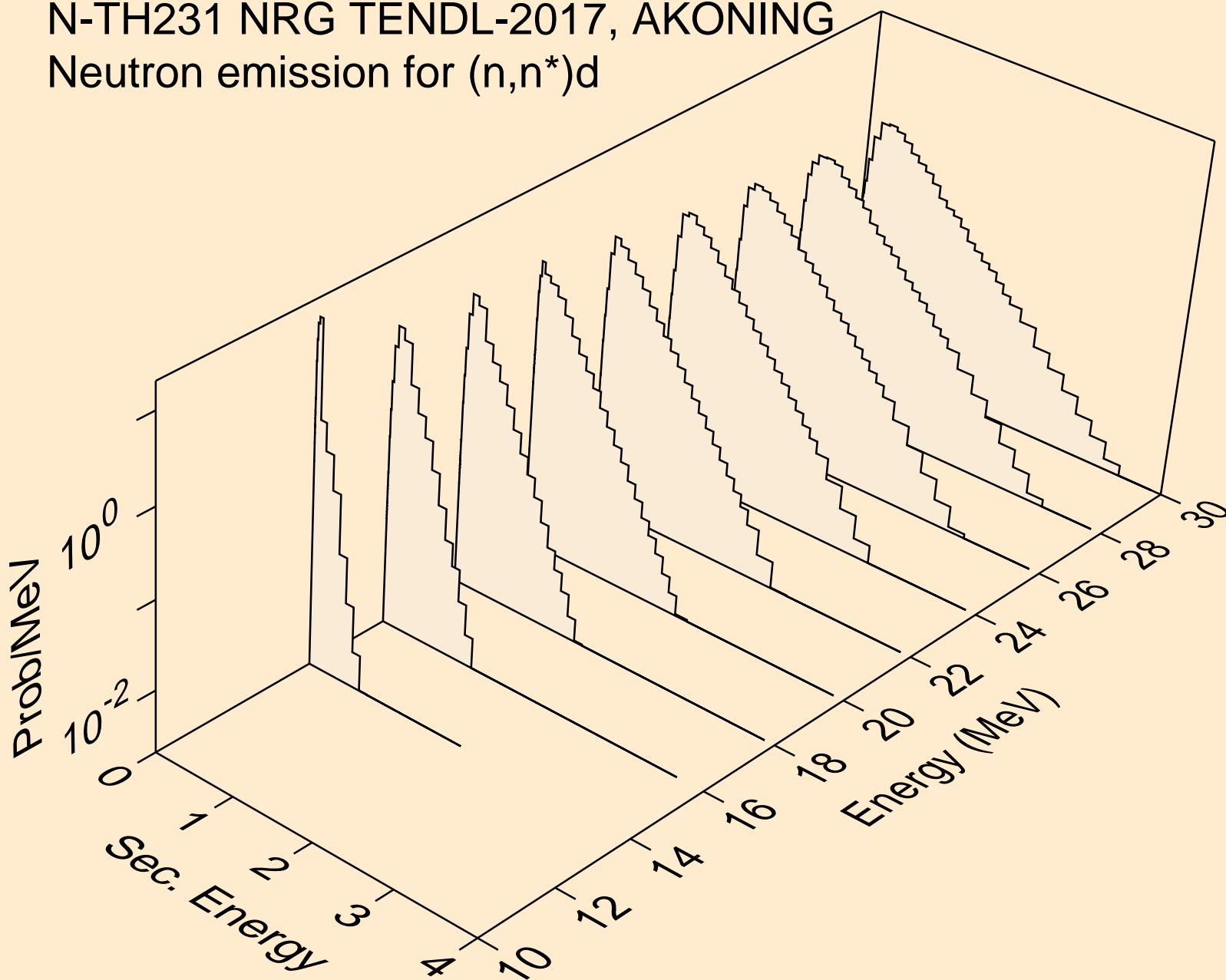
N-TH231 NRG TENDL-2017, AKONING  
Neutron emission for (n,3n)a



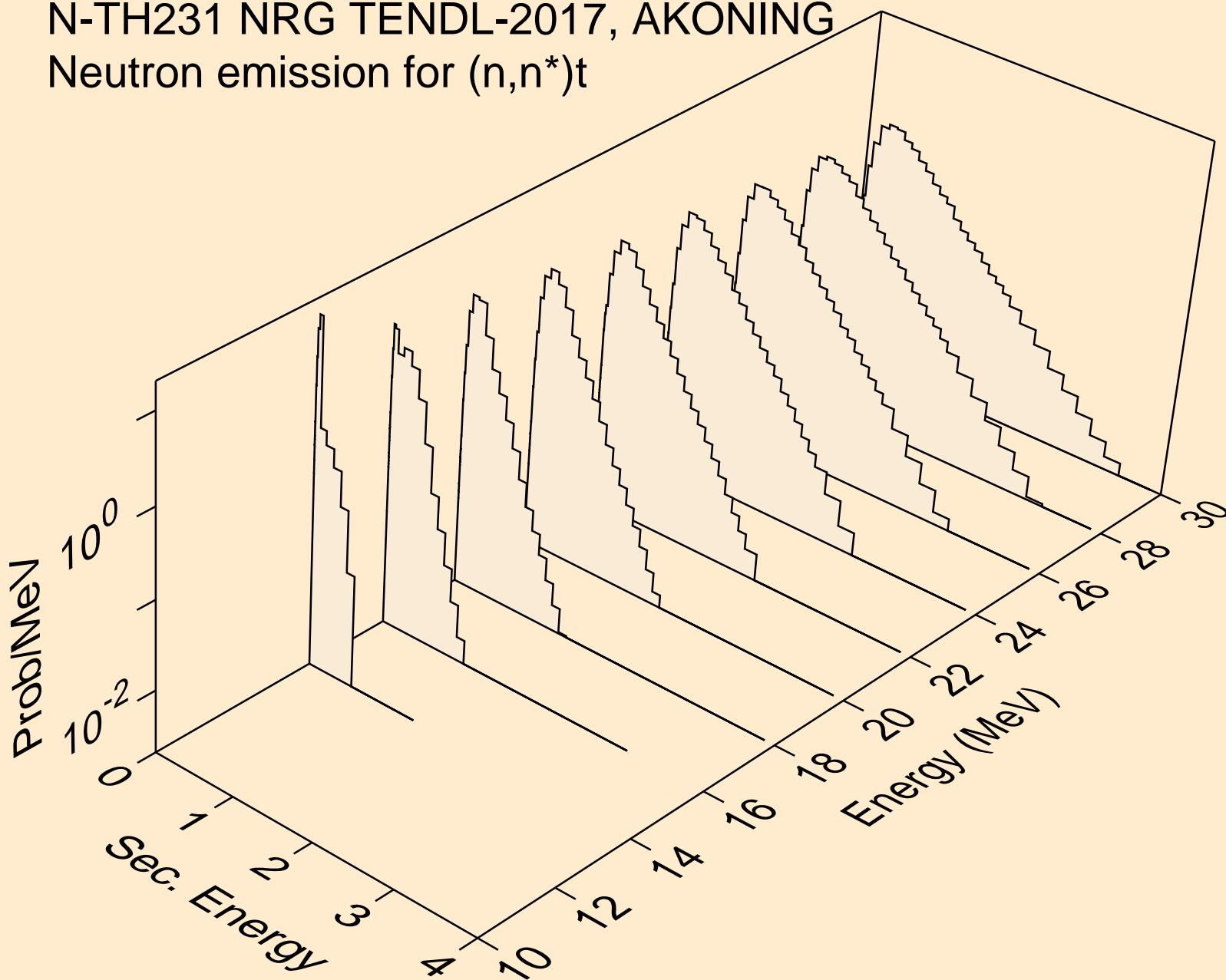
N-TH231 NRG TENDL-2017, AKONING  
Neutron emission for  $(n,n^*)p$



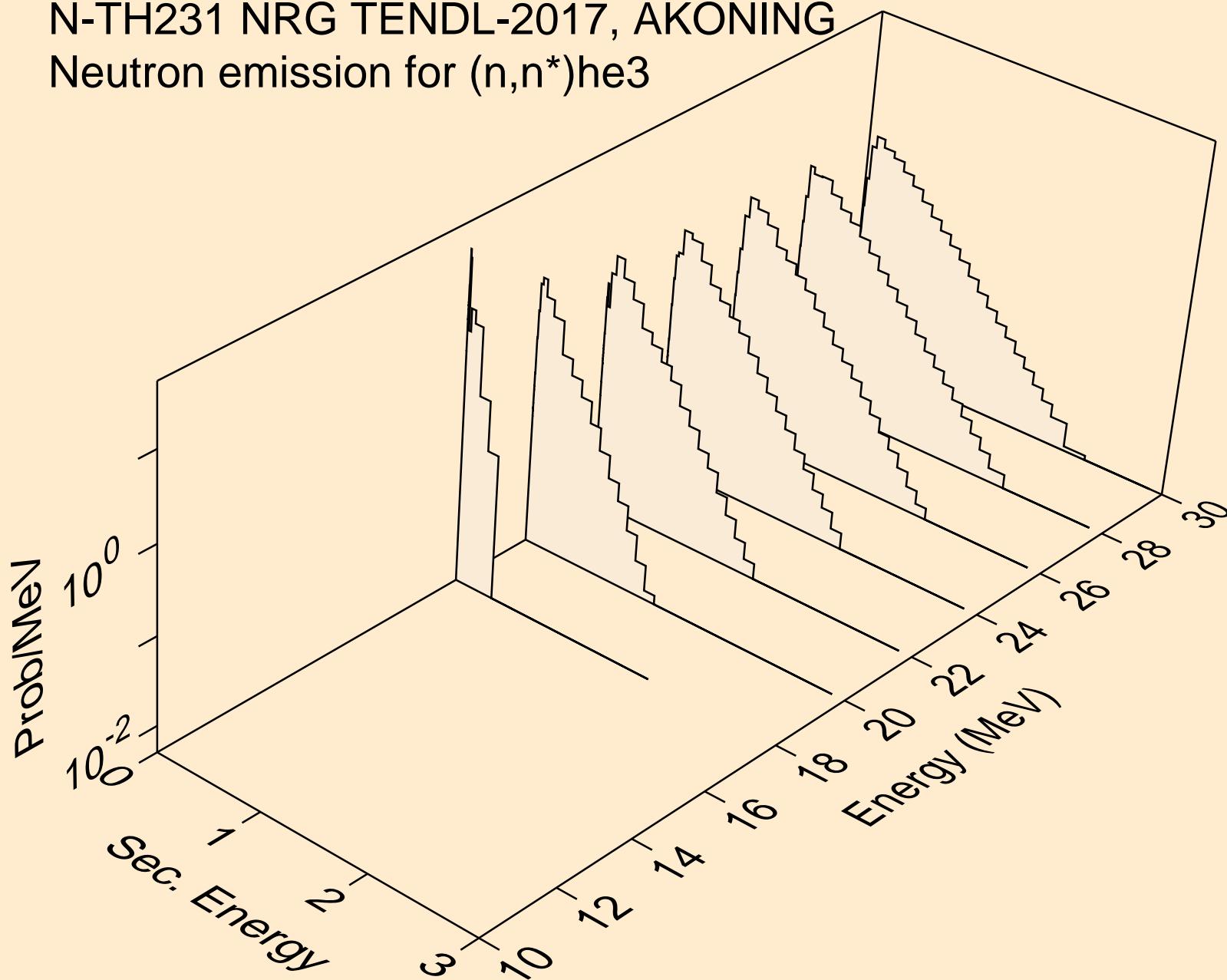
N-TH231 NRG TENDL-2017, AKONING  
Neutron emission for  $(n,n^*)d$



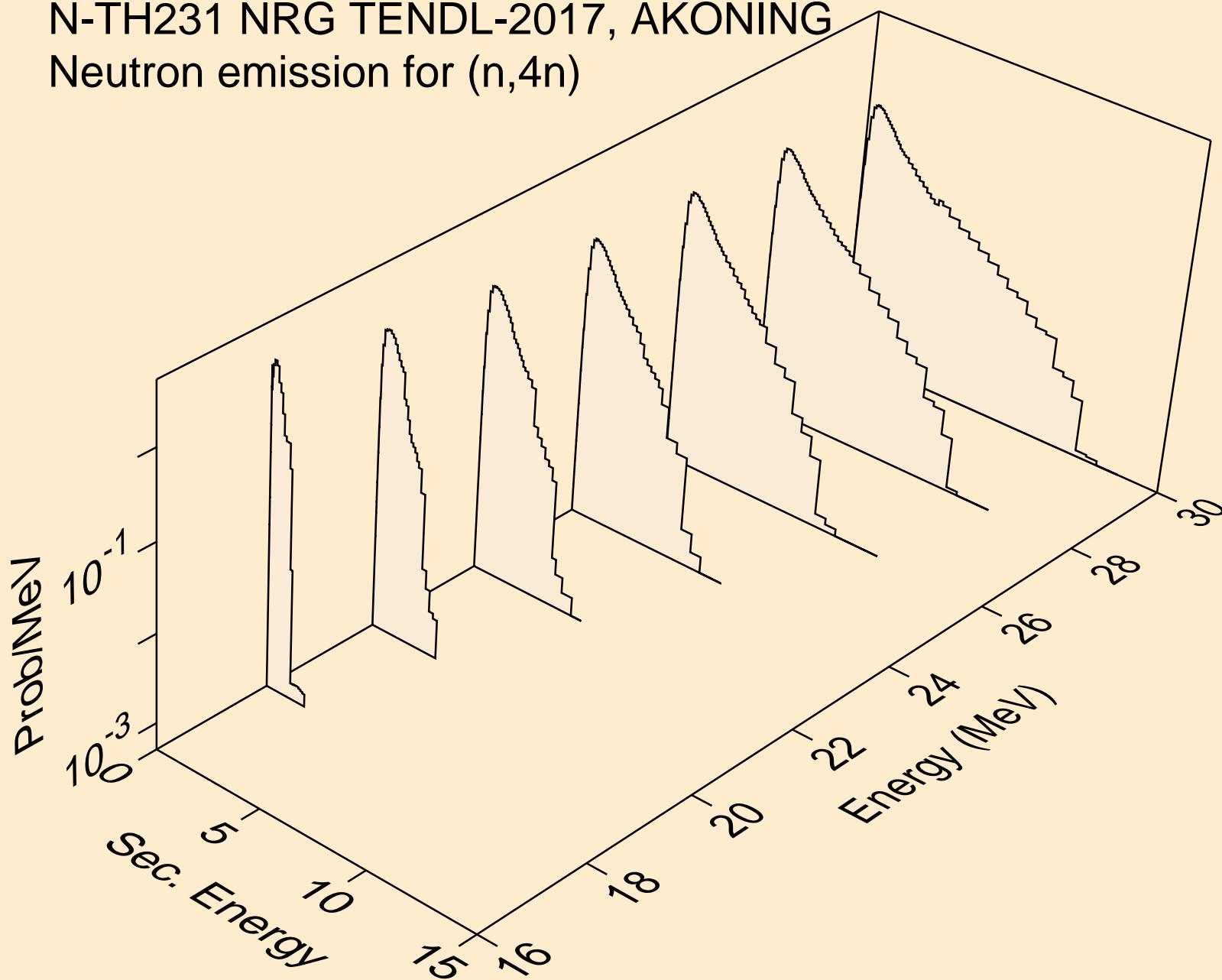
N-TH231 NRG TENDL-2017, AKONING  
Neutron emission for  $(n,n^*)t$



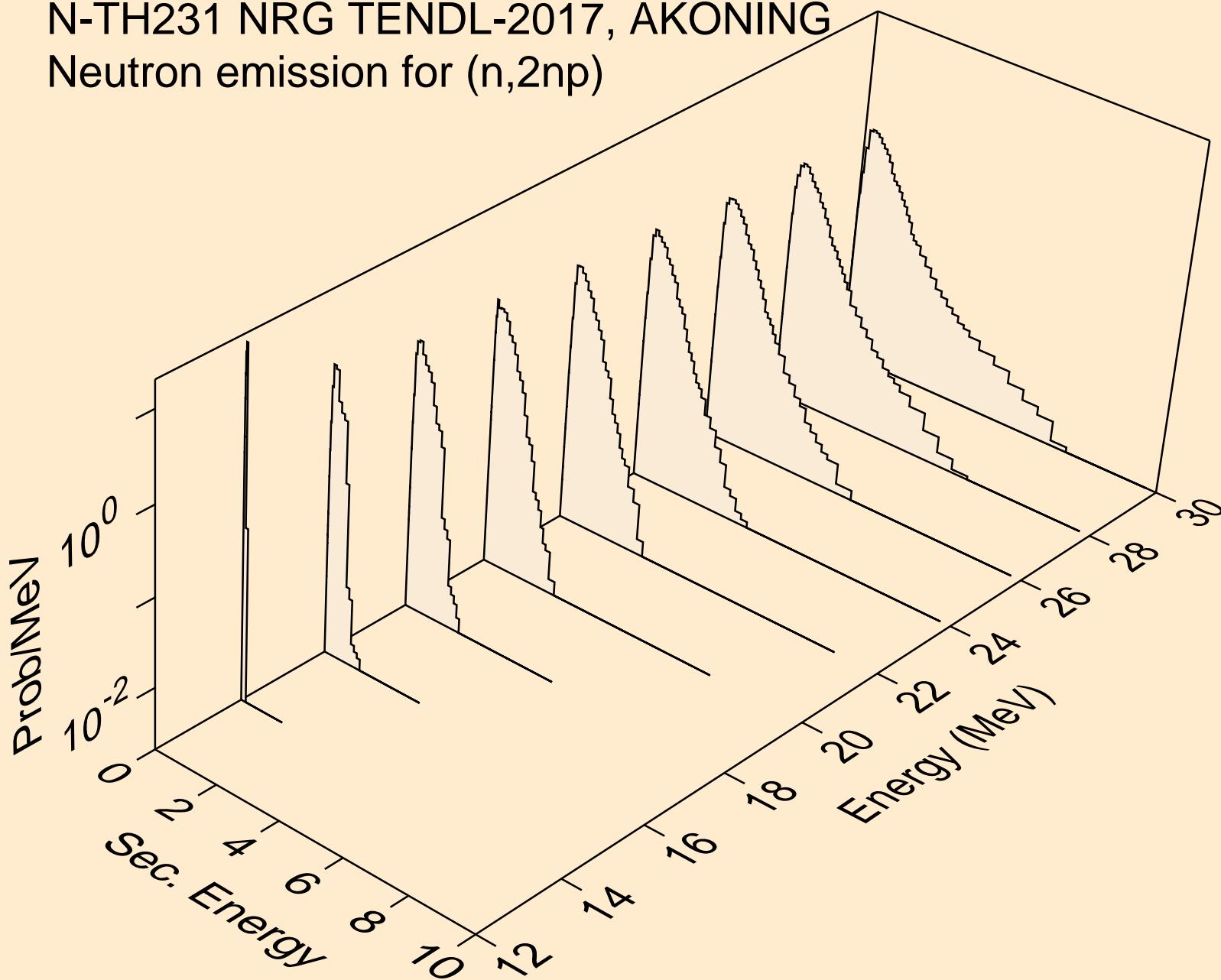
N-TH231 NRG TENDL-2017, AKONING  
Neutron emission for  $(n,n^*)\text{he3}$



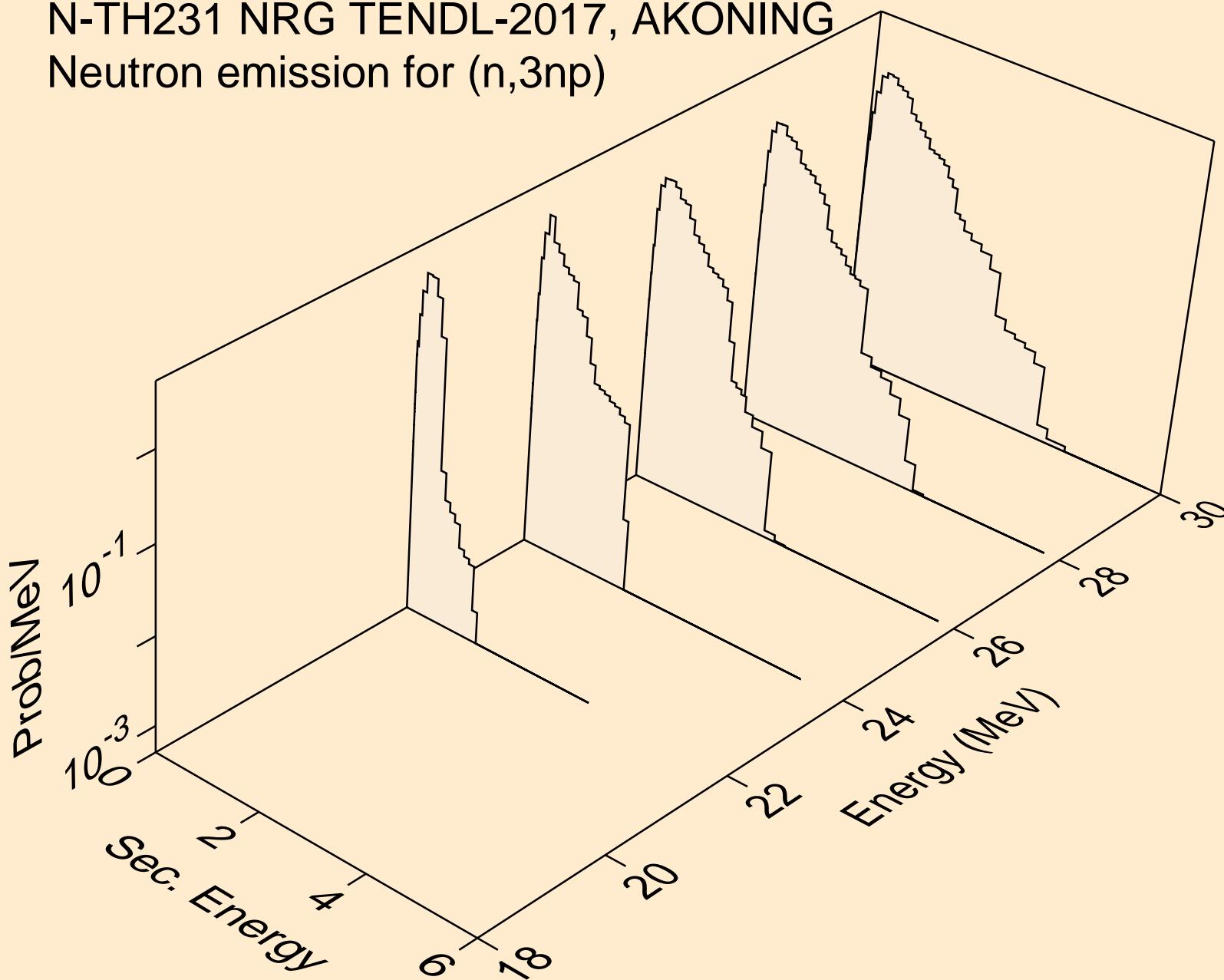
N-TH231 NRG TENDL-2017, AKONING  
Neutron emission for (n,4n)



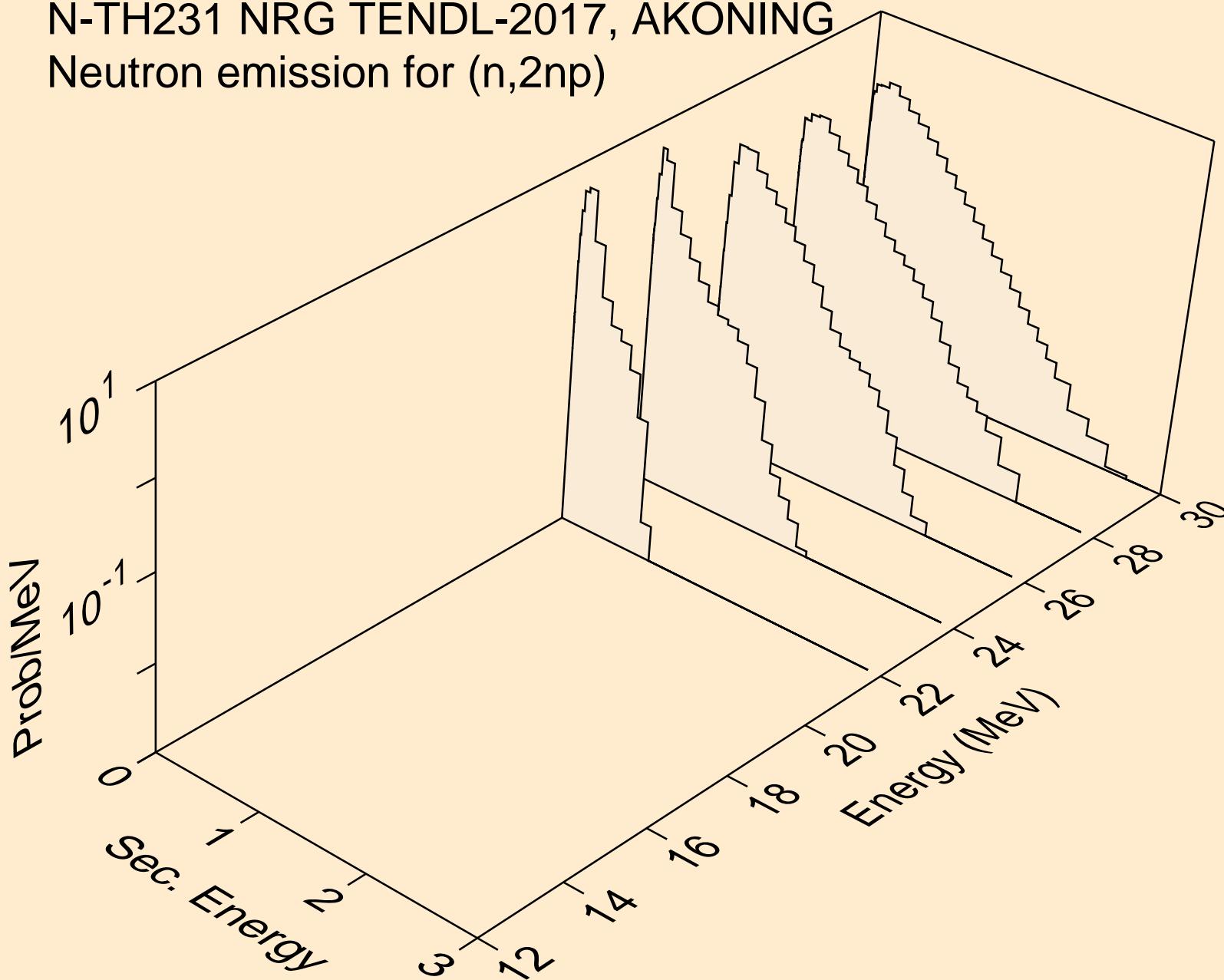
N-TH231 NRG TENDL-2017, AKONING  
Neutron emission for (n,2np)



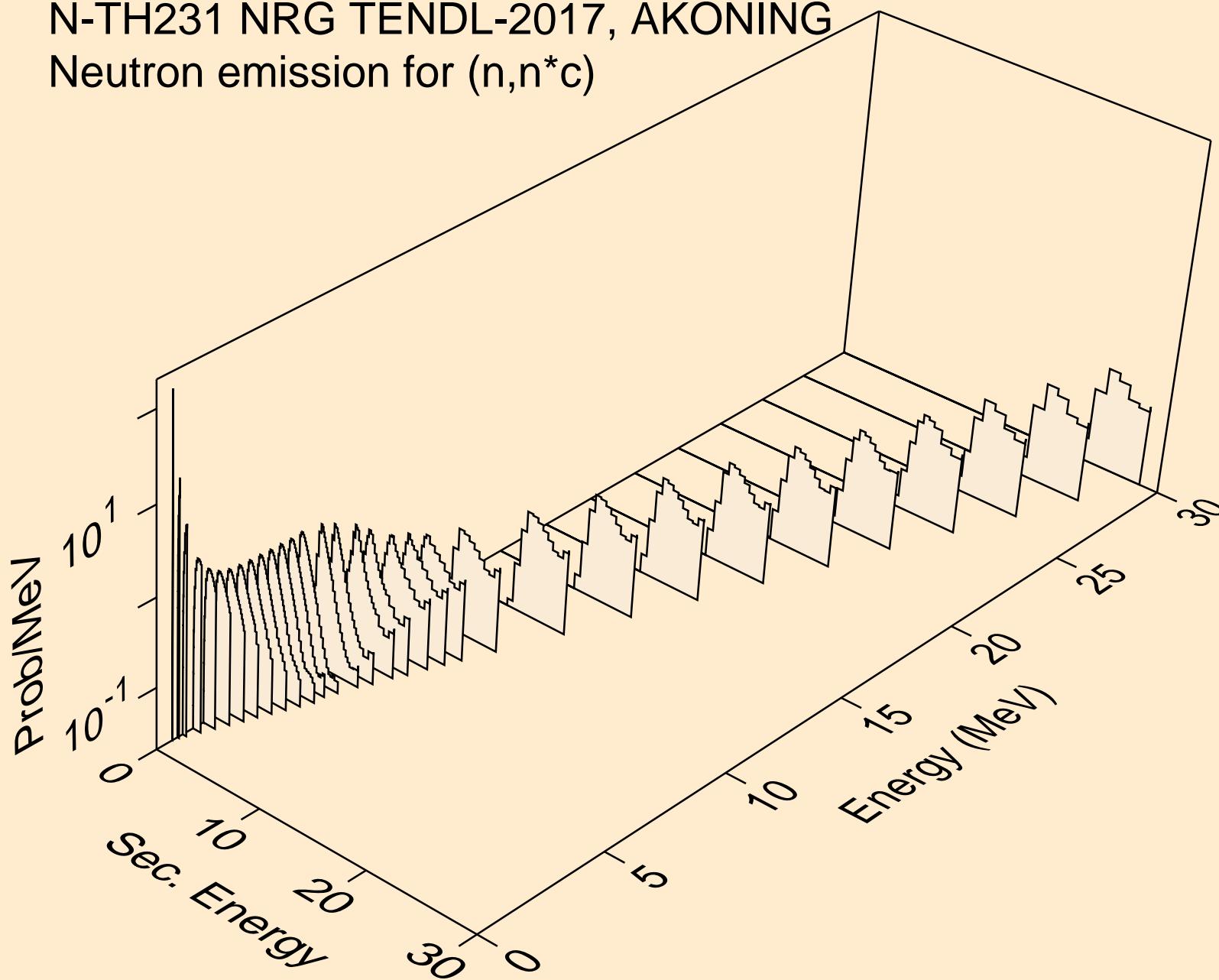
N-TH231 NRG TENDL-2017, AKONING  
Neutron emission for (n,3np)



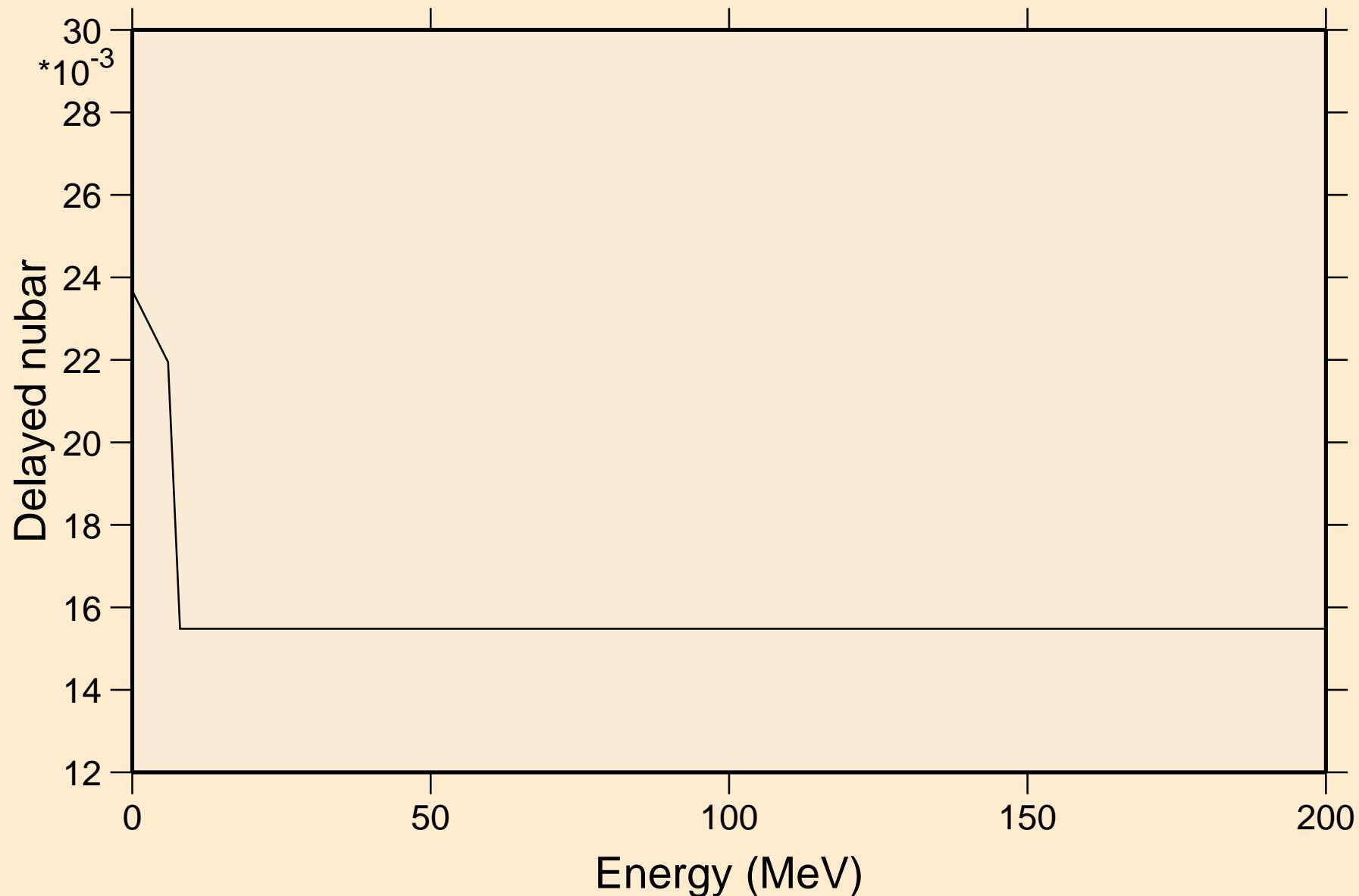
N-TH231 NRG TENDL-2017, AKONING  
Neutron emission for (n,2np)



N-TH231 NRG TENDL-2017, AKONING  
Neutron emission for  $(n,n^*c)$

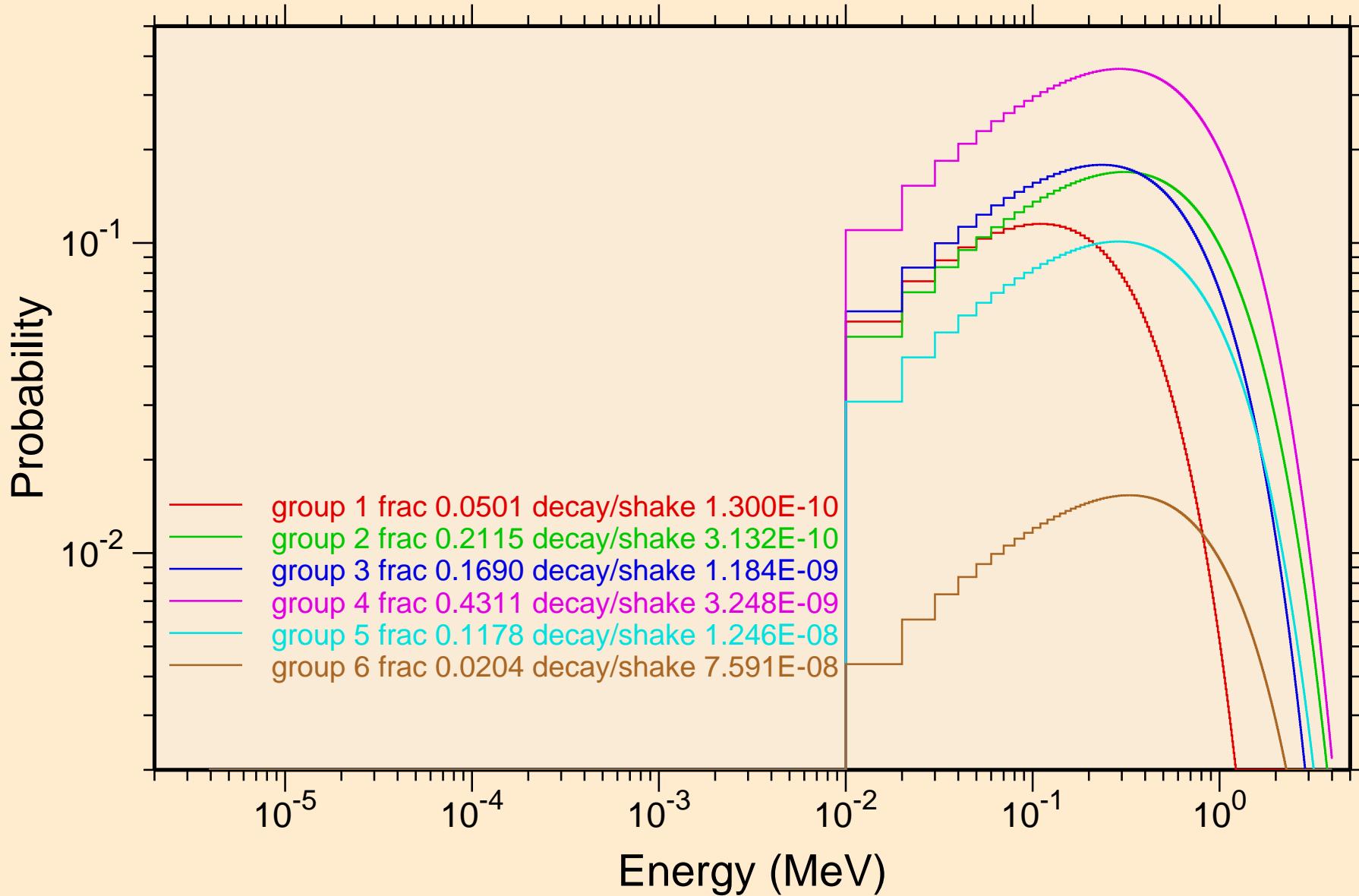


N-TH231 NRG TENDL-2017, AKONING  
Delayed nubar

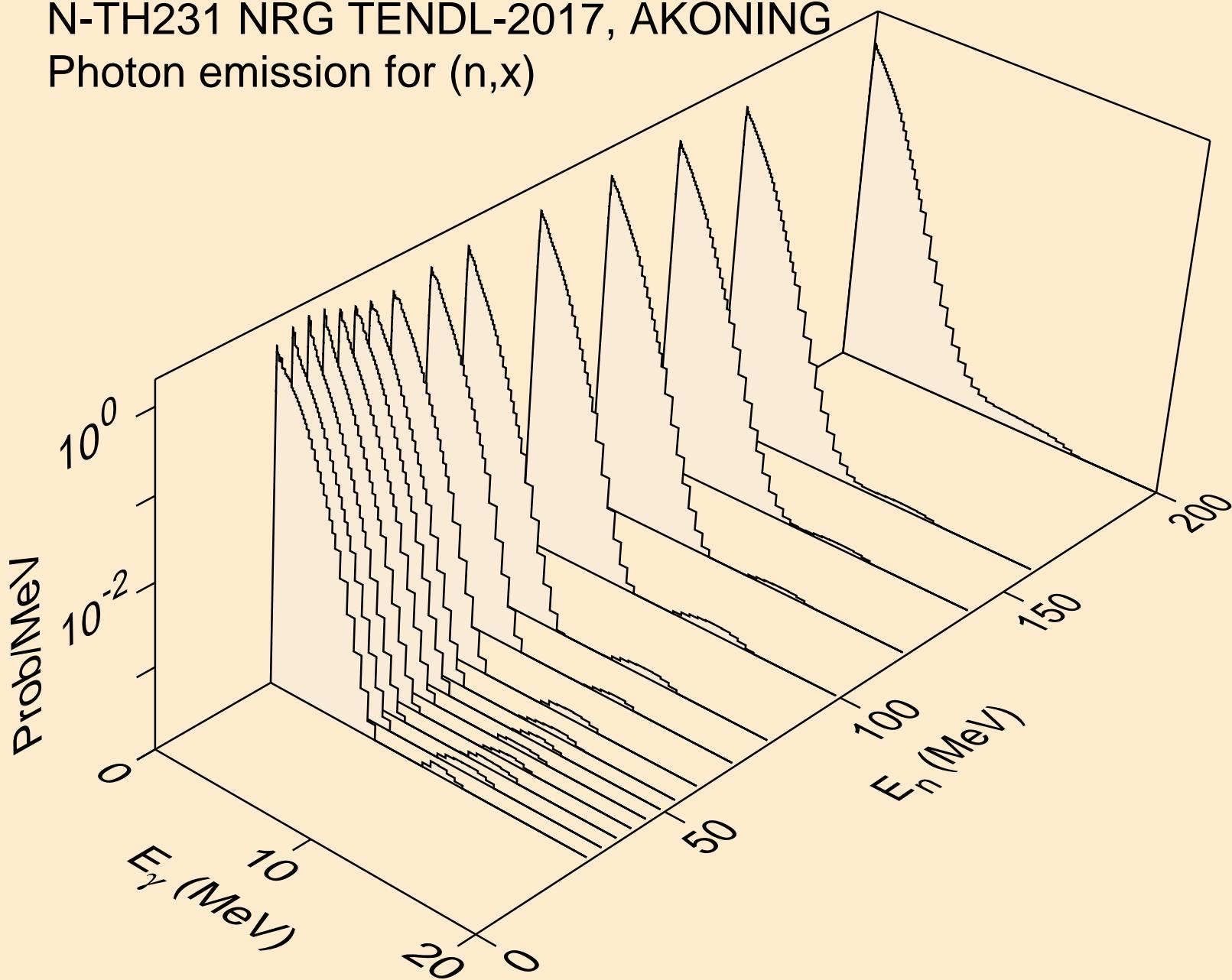


# N-TH231 NRG TENDL-2017, AKONING

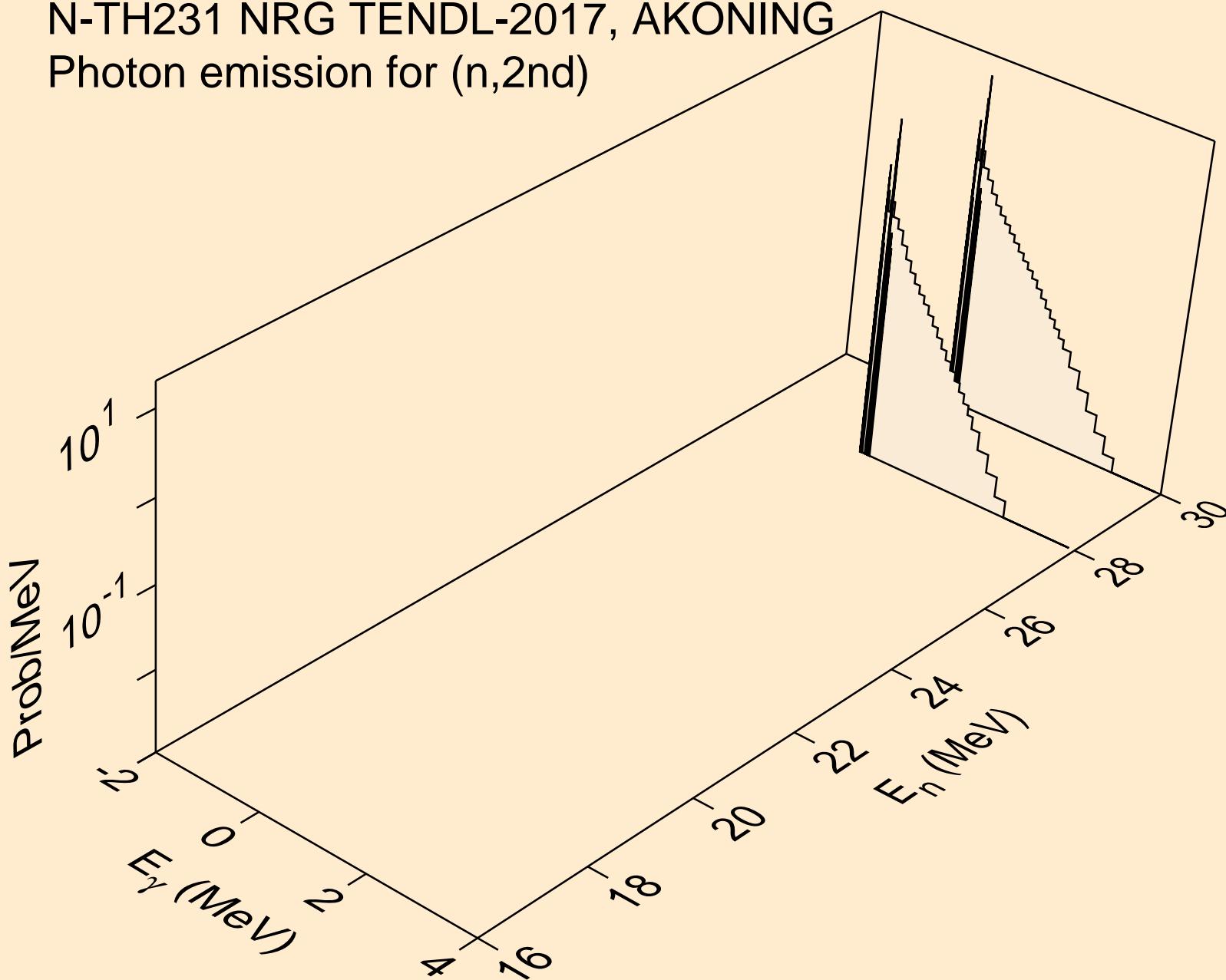
## Delayed neutron spectra



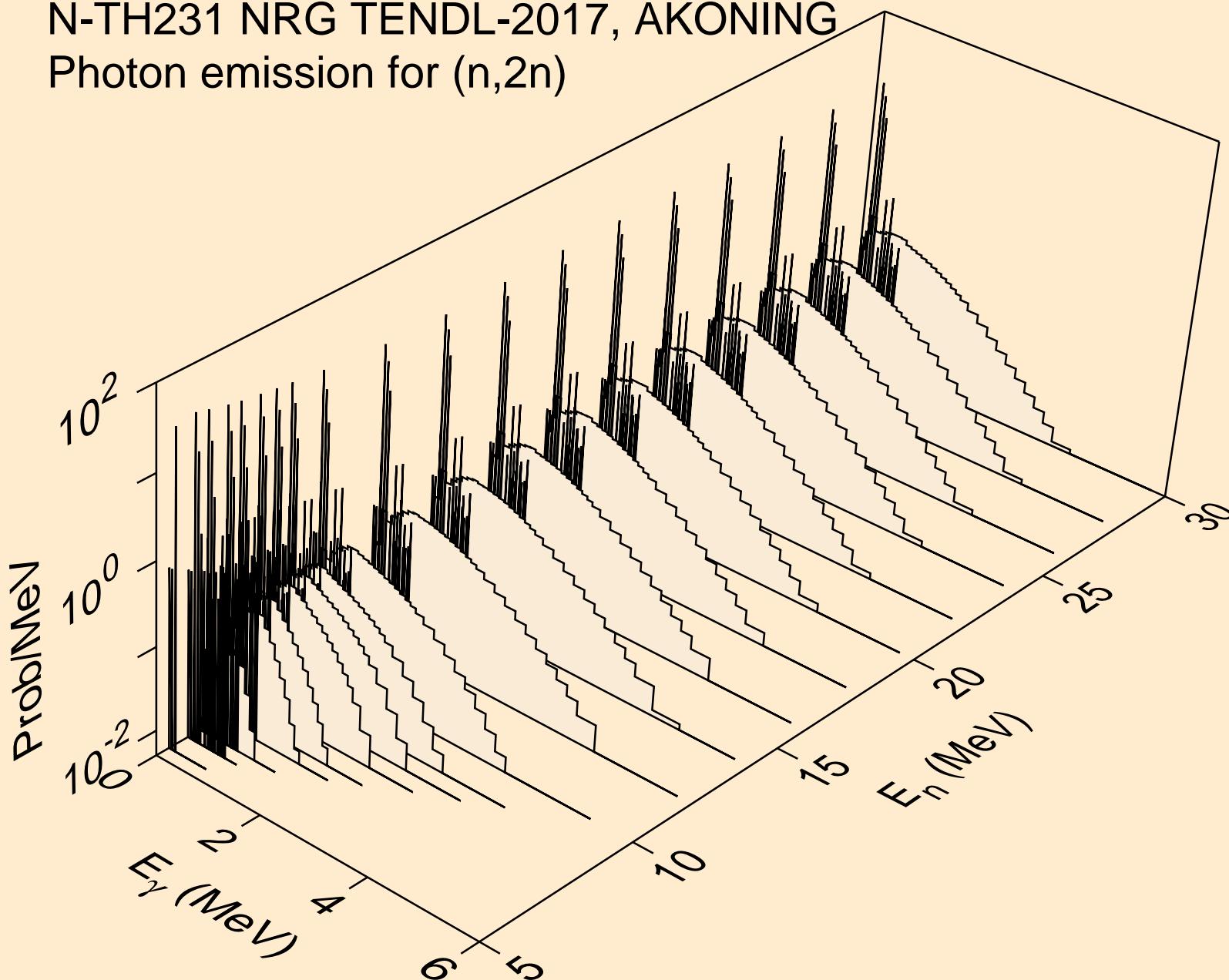
N-TH231 NRG TENDL-2017, AKONING  
Photon emission for (n,x)



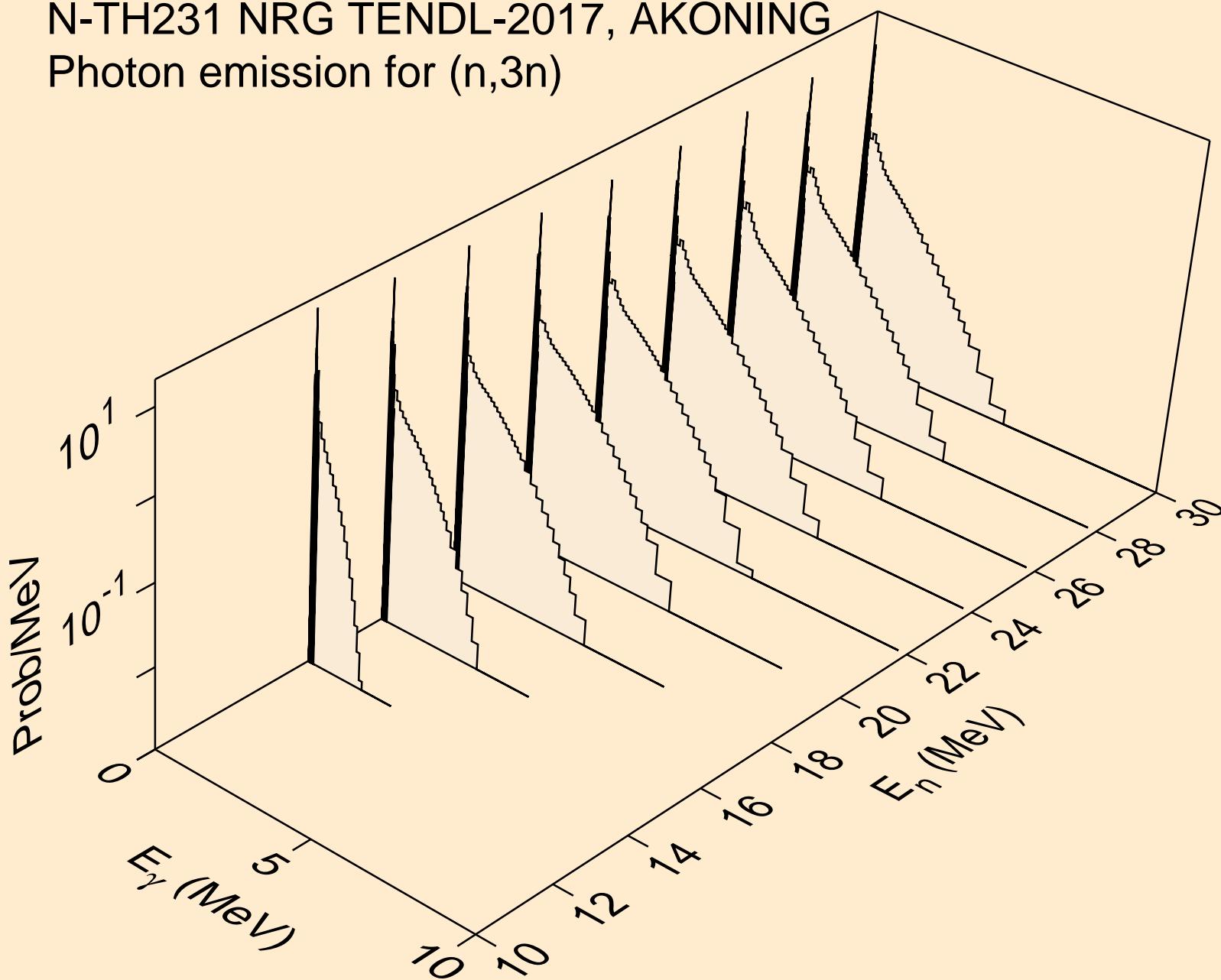
N-TH231 NRG TENDL-2017, AKONING  
Photon emission for (n,2nd)



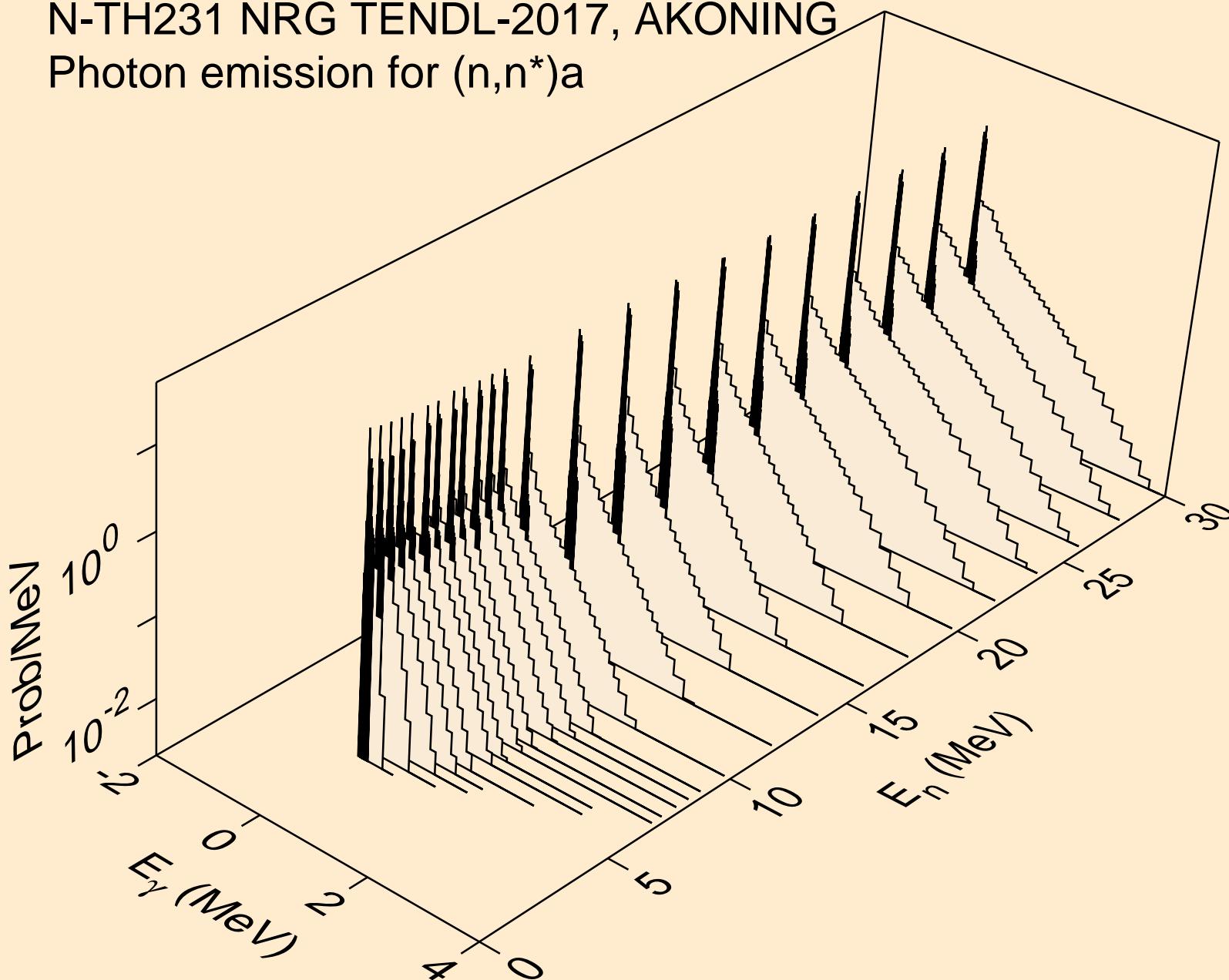
N-TH231 NRG TENDL-2017, AKONING  
Photon emission for (n,2n)



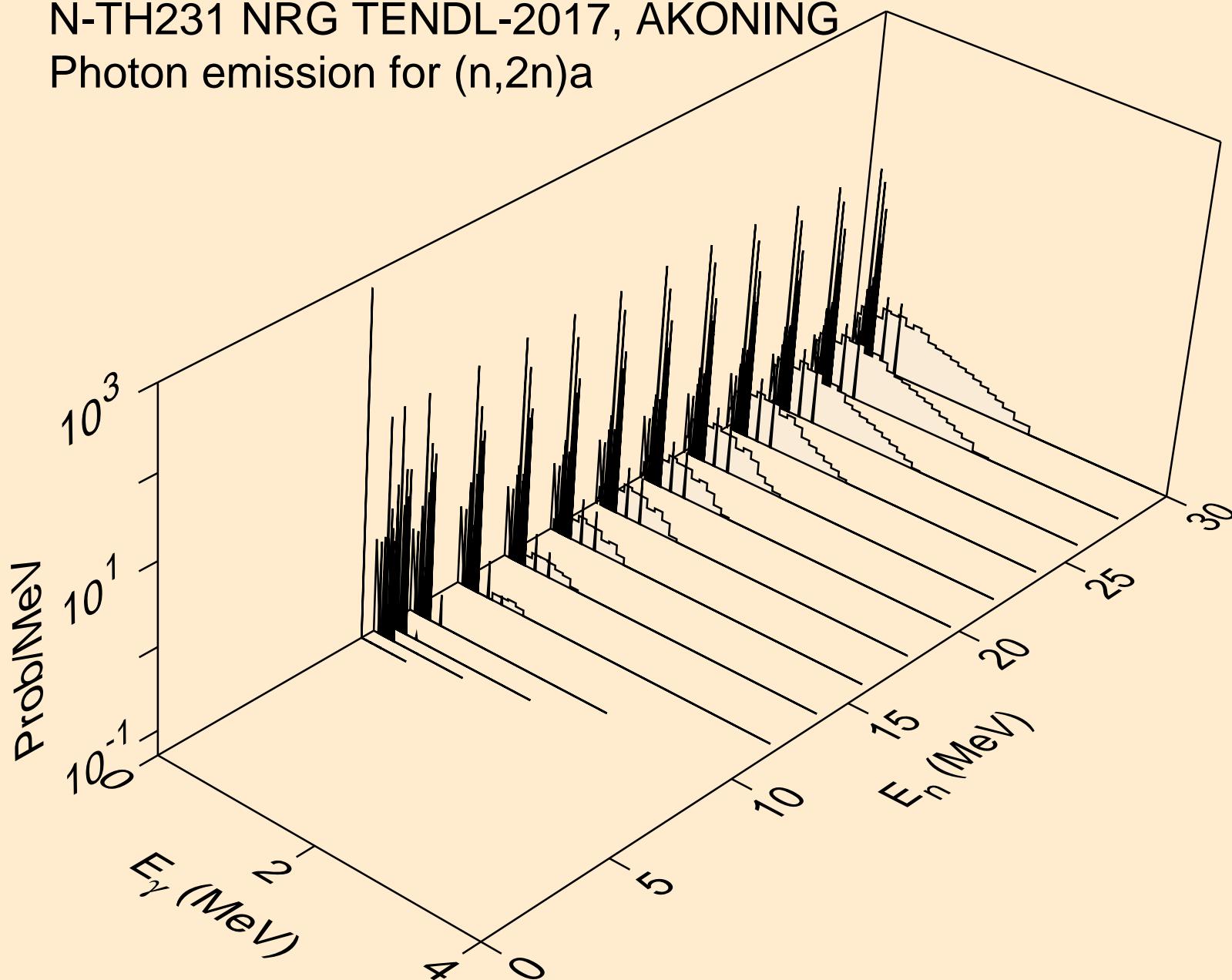
N-TH231 NRG TENDL-2017, AKONING  
Photon emission for (n,3n)



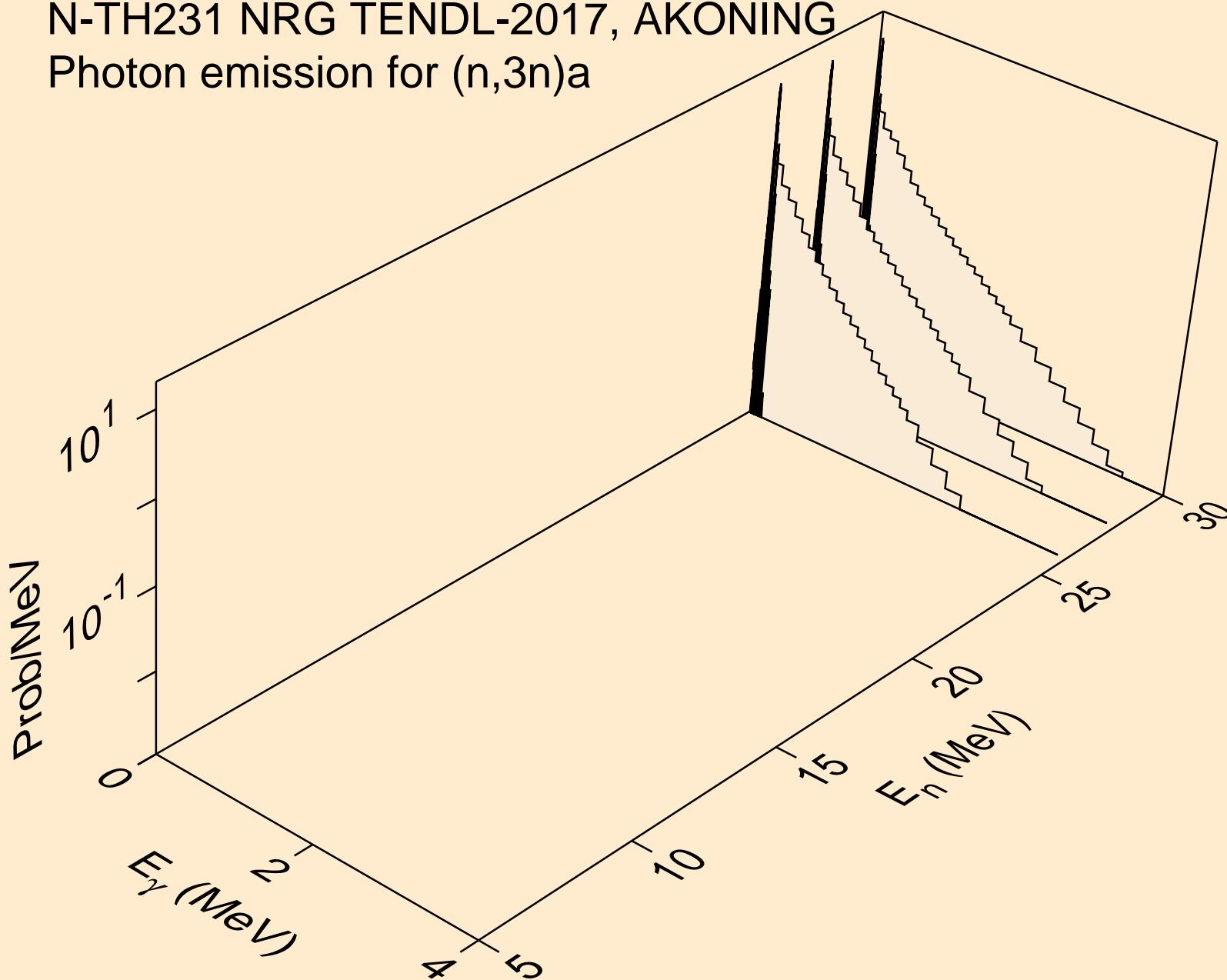
N-TH231 NRG TENDL-2017, AKONING  
Photon emission for  $(n,n^*)a$



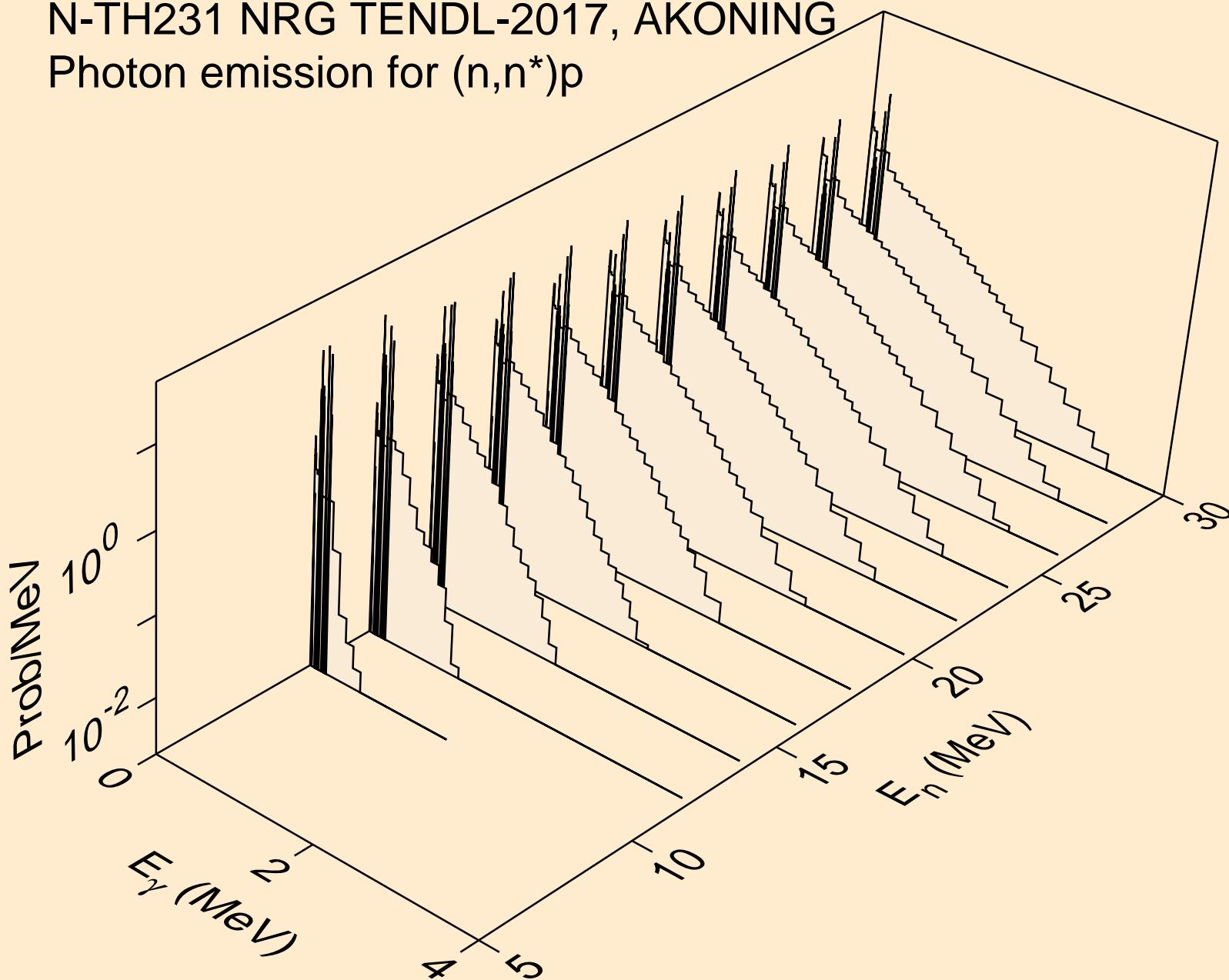
N-TH231 NRG TENDL-2017, AKONING  
Photon emission for (n,2n)a



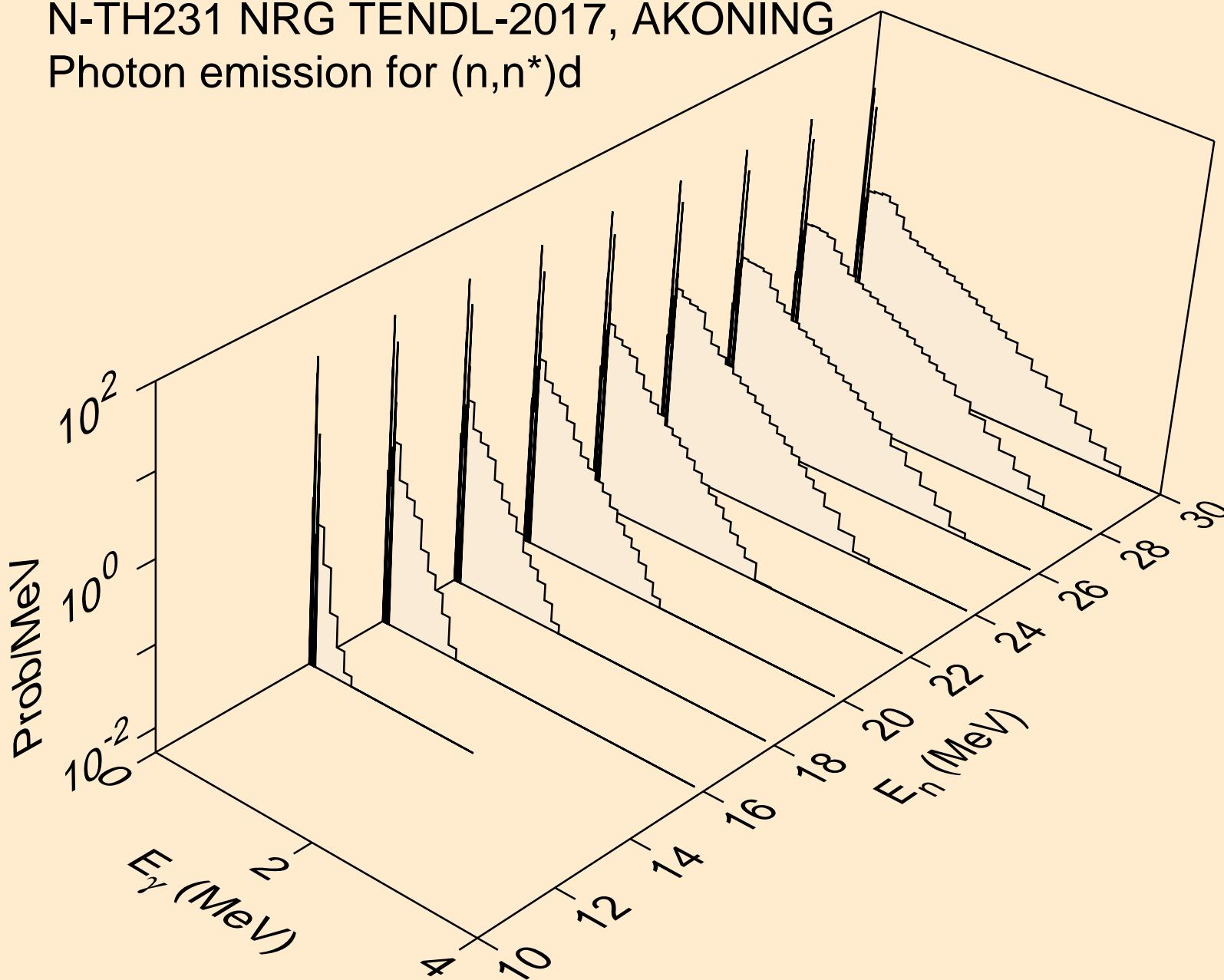
N-TH231 NRG TENDL-2017, AKONING  
Photon emission for (n,3n)a



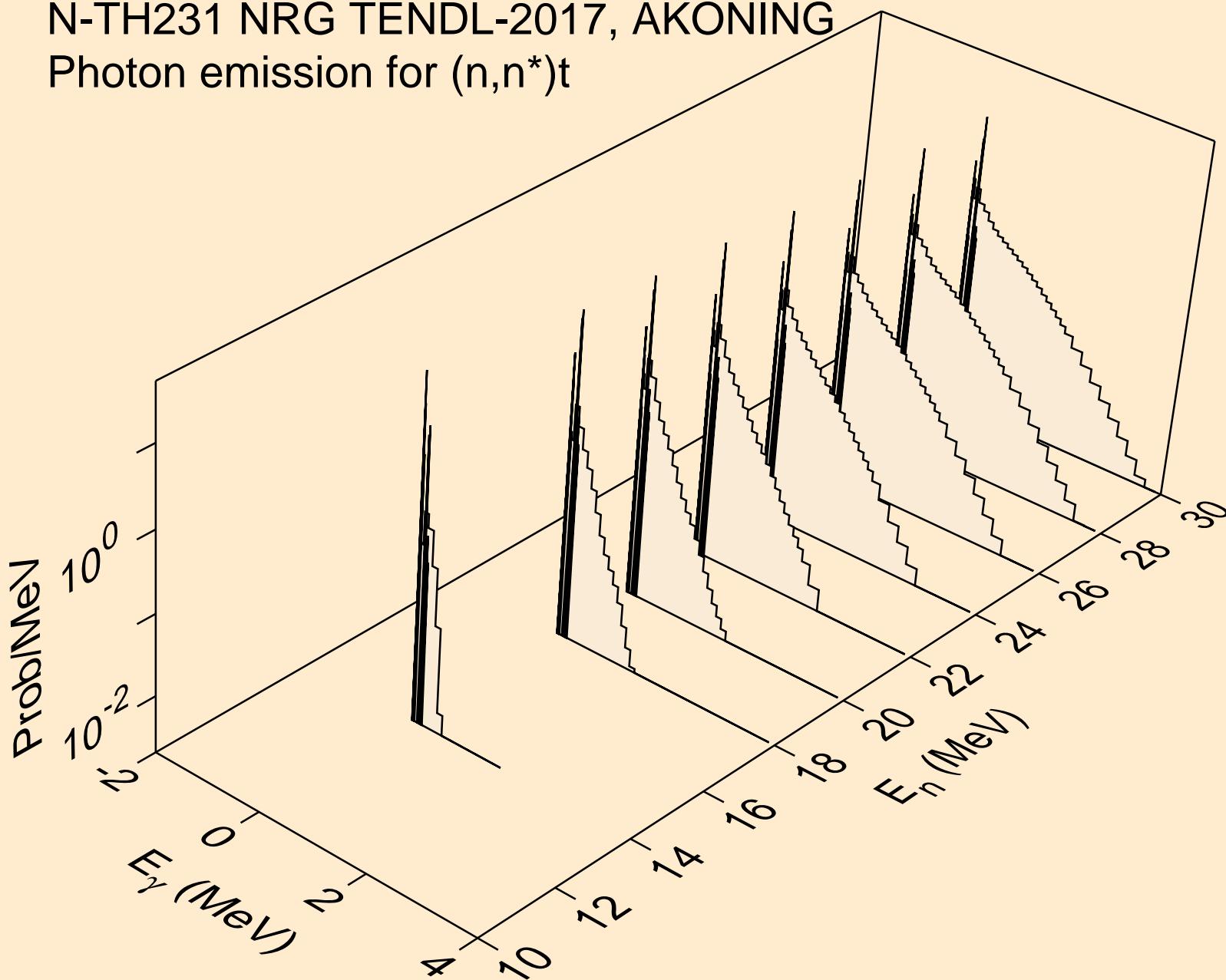
N-TH231 NRG TENDL-2017, AKONING  
Photon emission for  $(n,n^*)p$



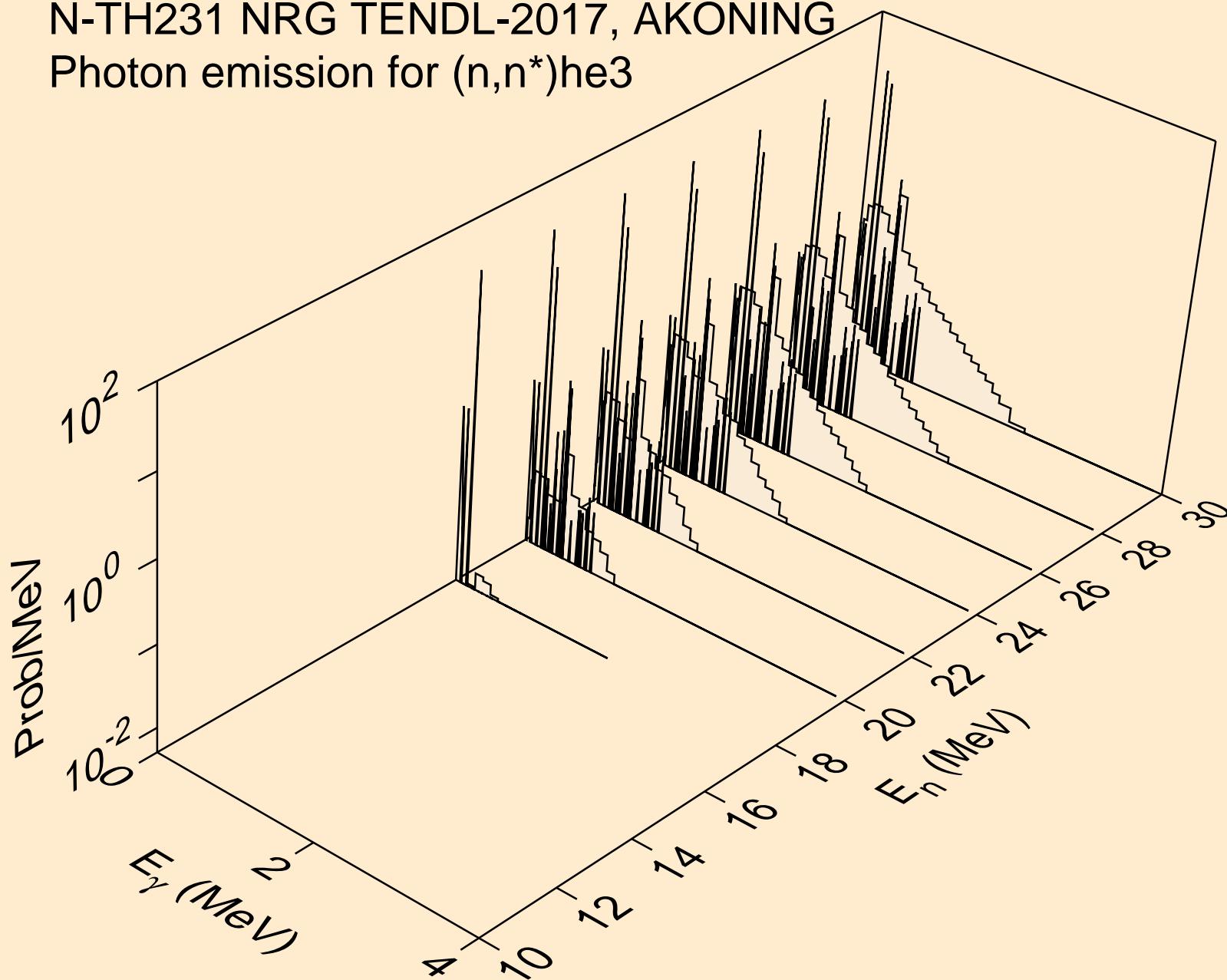
N-TH231 NRG TENDL-2017, AKONING  
Photon emission for  $(n,n^*)d$



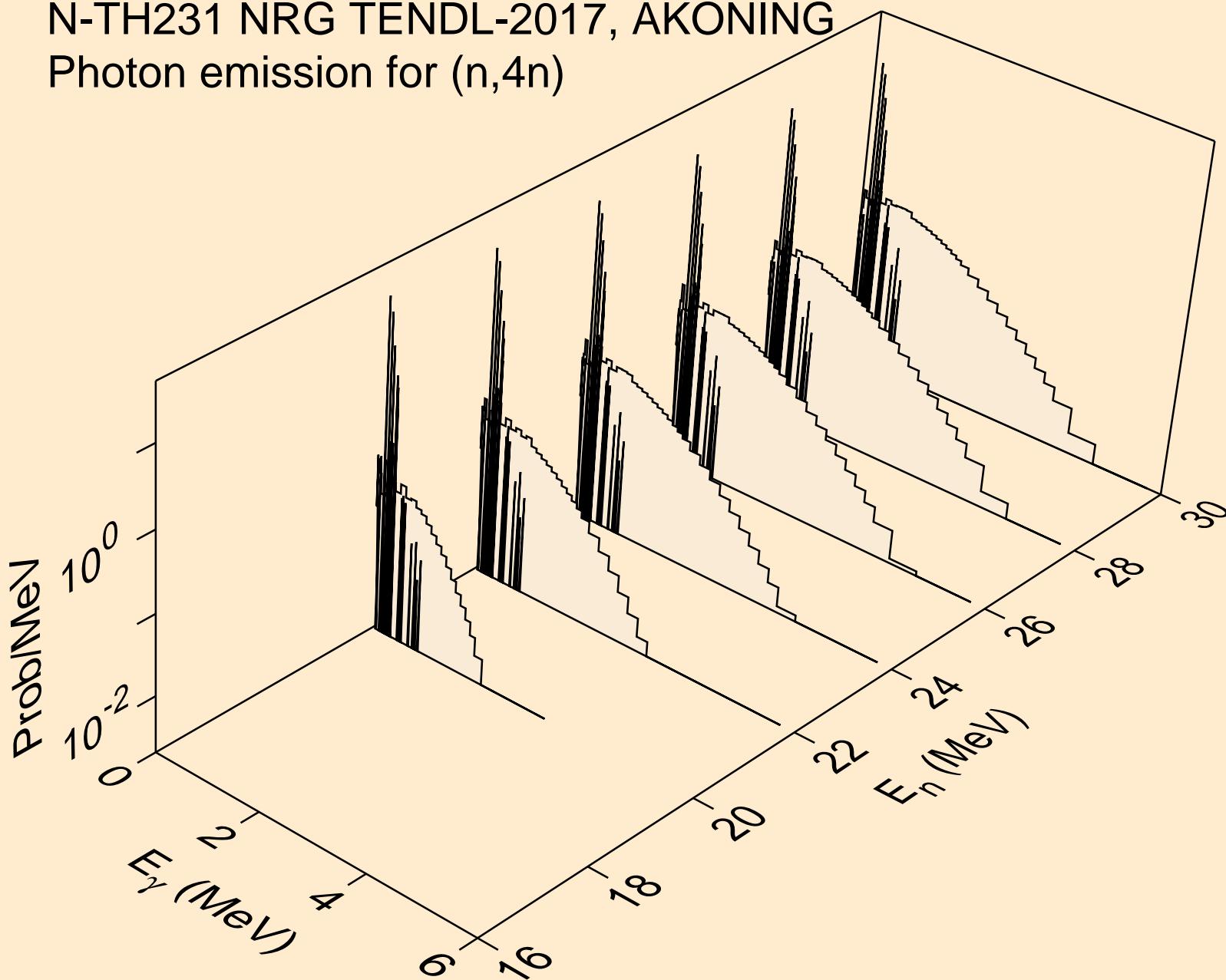
N-TH231 NRG TENDL-2017, AKONING  
Photon emission for  $(n,n^*)t$



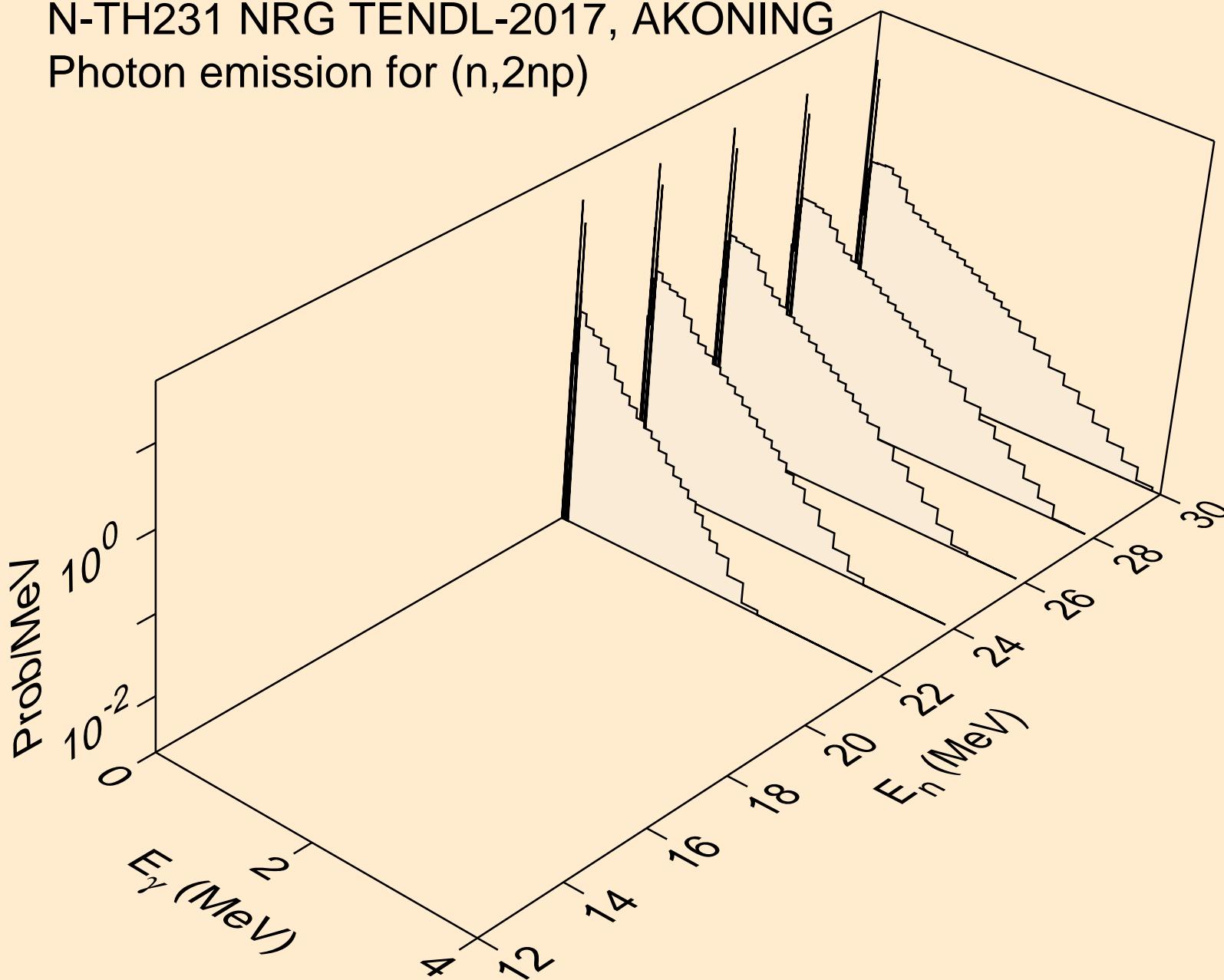
N-TH231 NRG TENDL-2017, AKONING  
Photon emission for  $(n,n^*)\text{he3}$



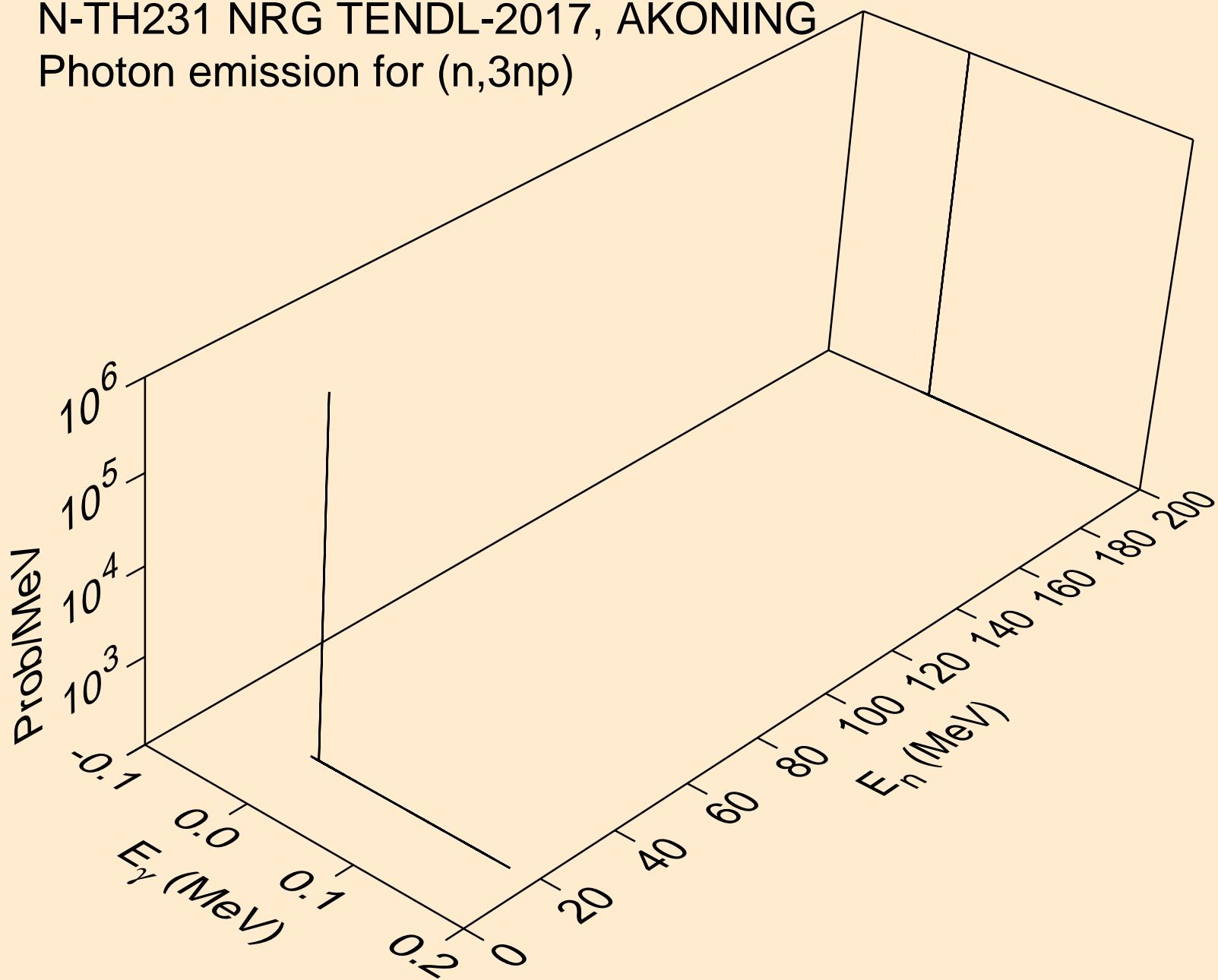
N-TH231 NRG TENDL-2017, AKONING  
Photon emission for (n,4n)



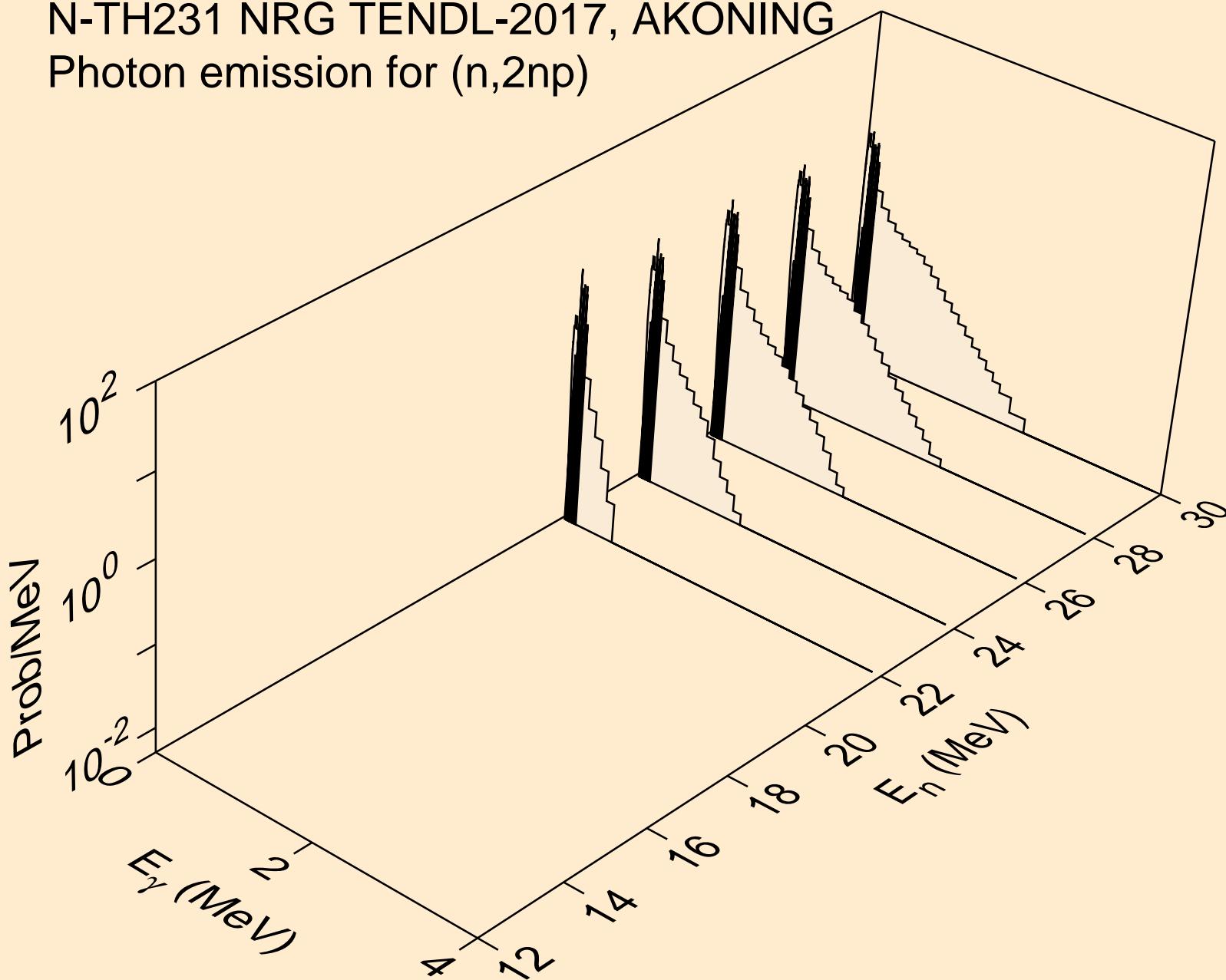
N-TH231 NRG TENDL-2017, AKONING  
Photon emission for (n,2np)



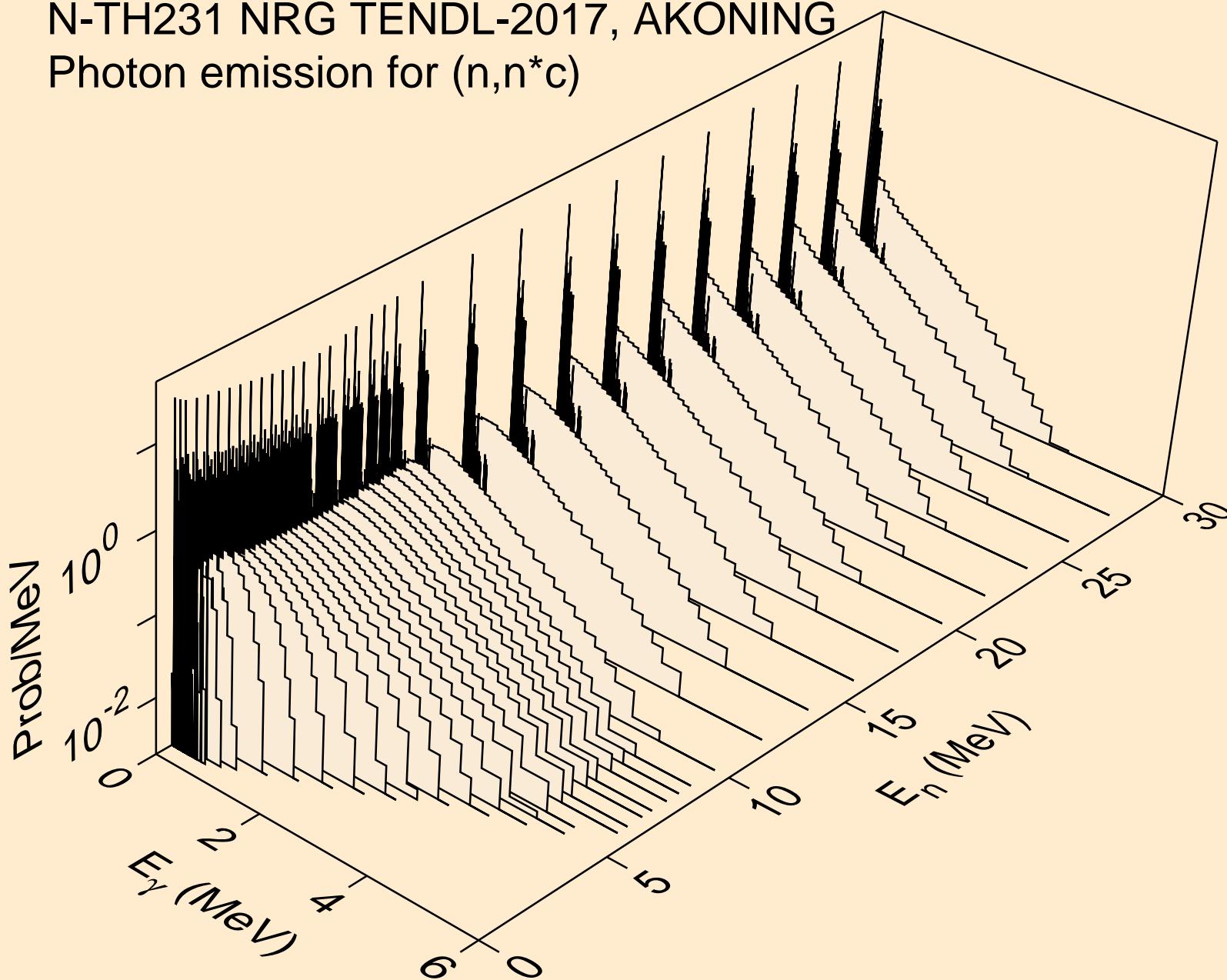
N-TH231 NRG TENDL-2017, AKONING  
Photon emission for (n,3np)



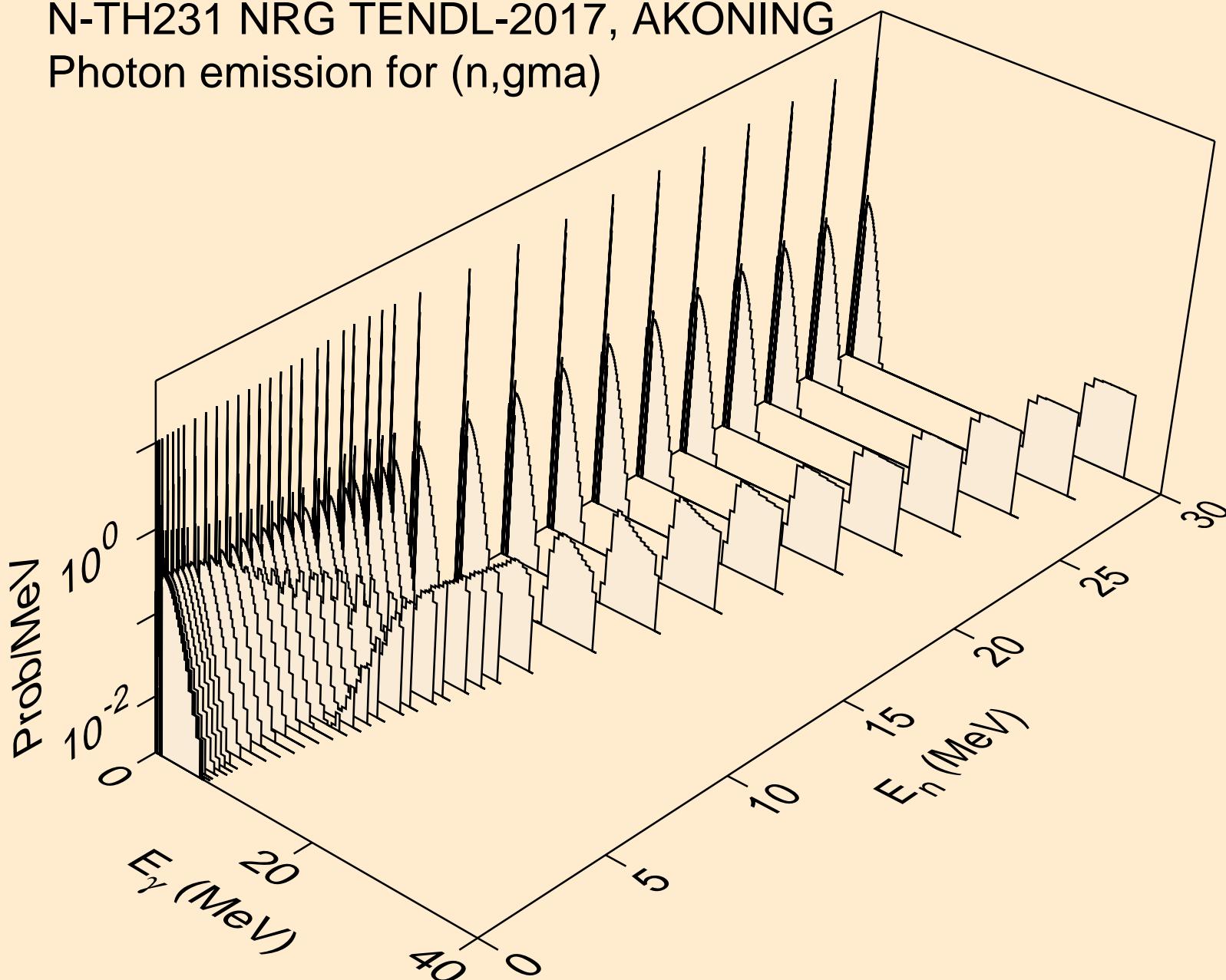
N-TH231 NRG TENDL-2017, AKONING  
Photon emission for (n,2np)



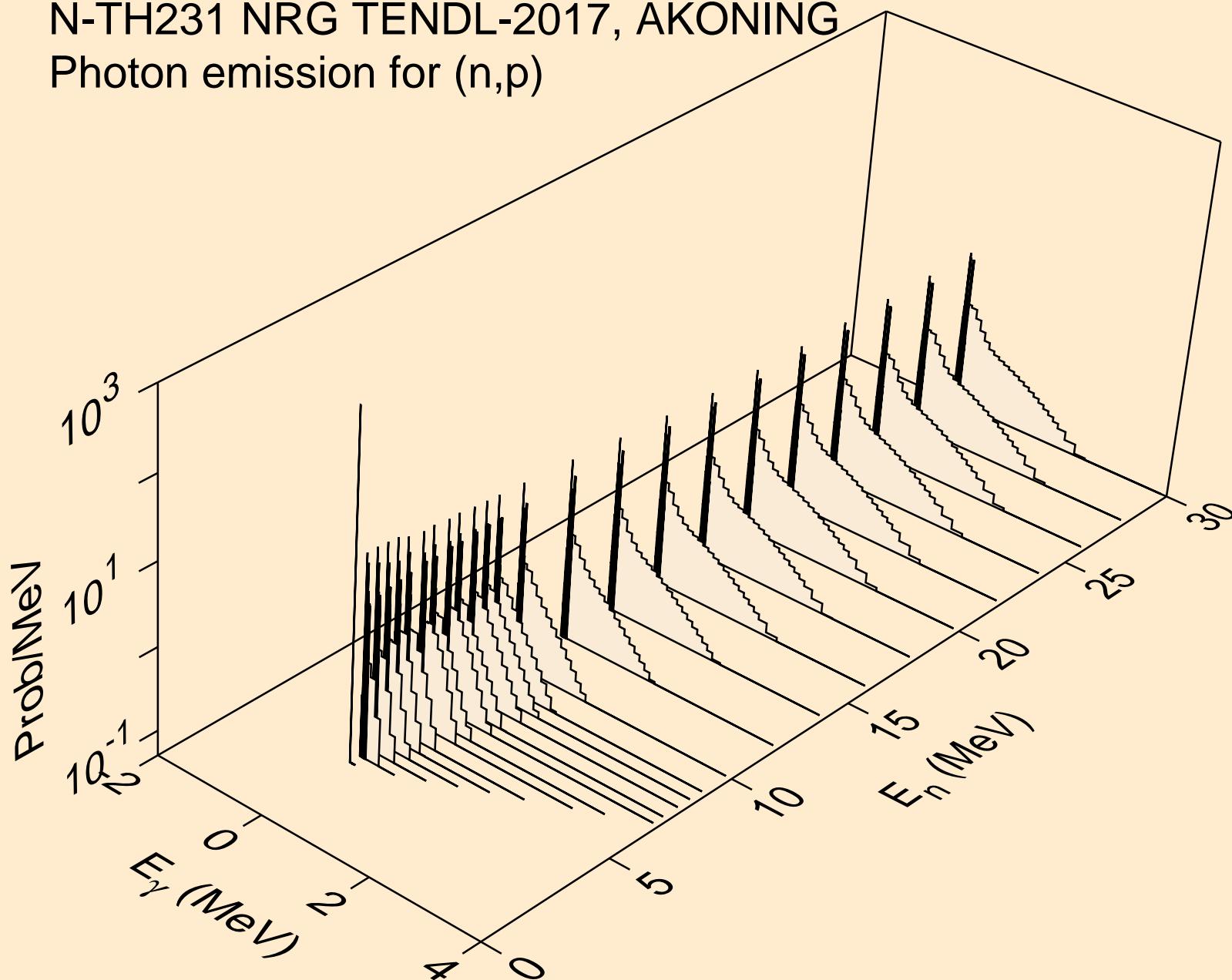
N-TH231 NRG TENDL-2017, AKONING  
Photon emission for  $(n,n^*c)$



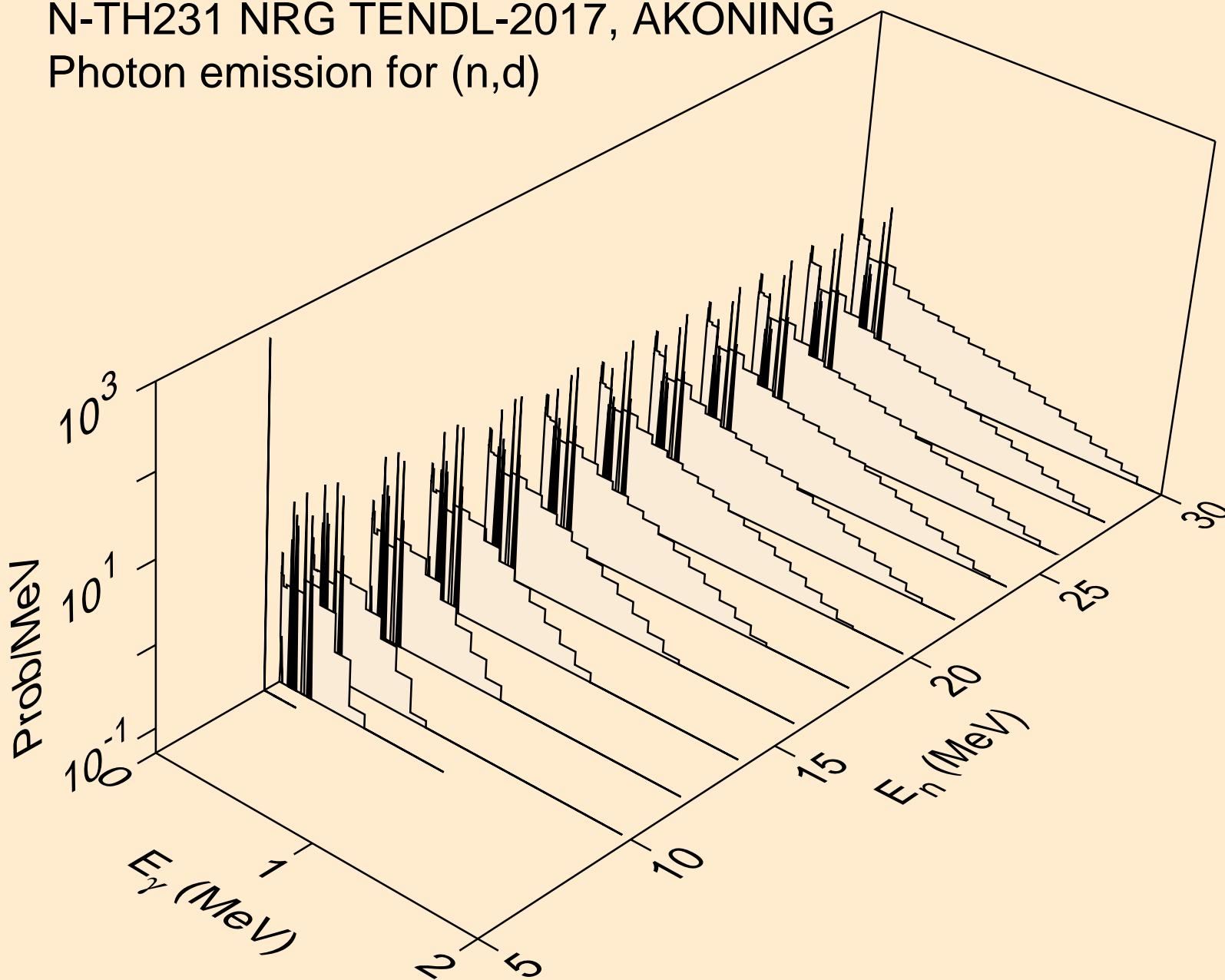
N-TH231 NRG TENDL-2017, AKONING  
Photon emission for (n,gma)



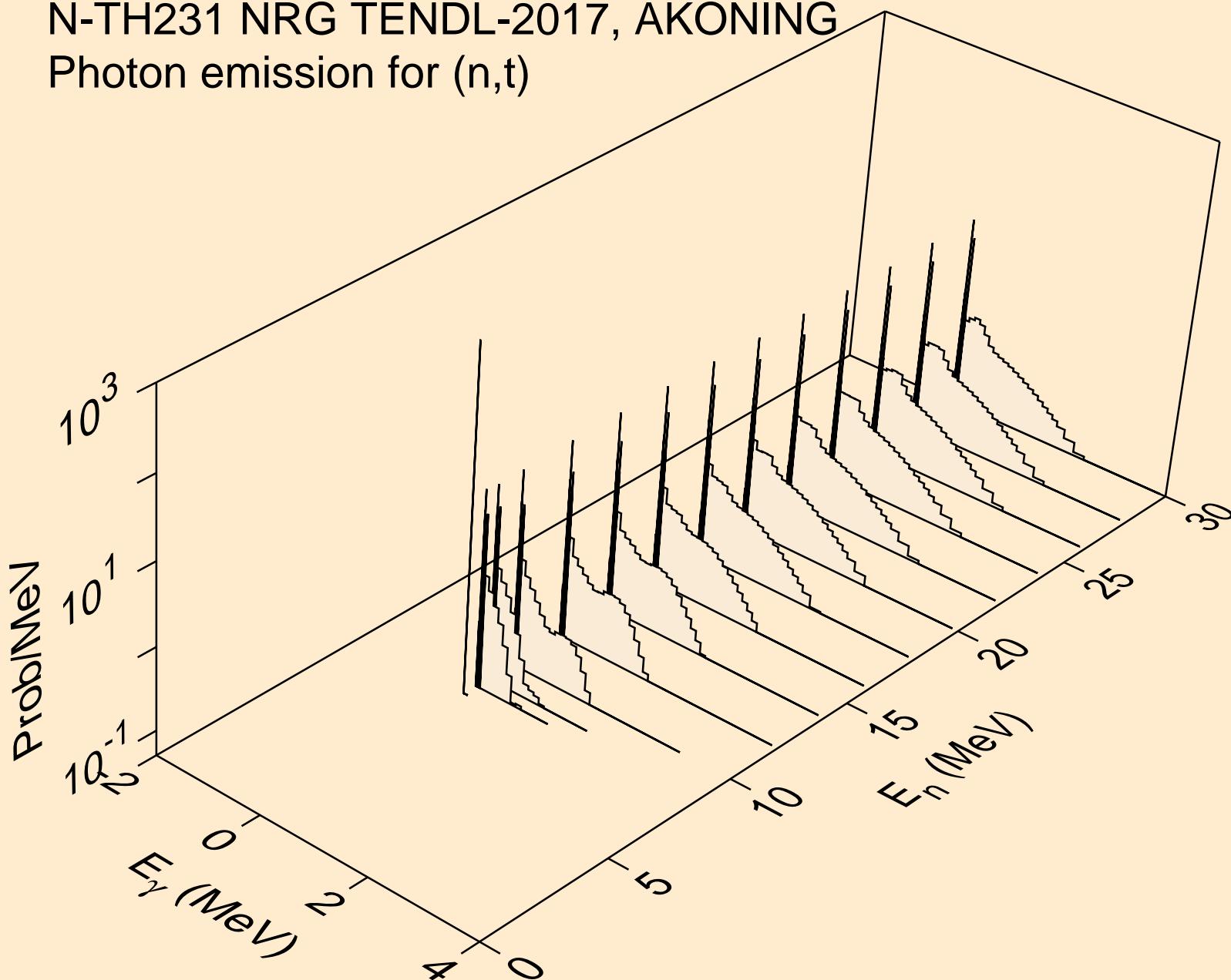
N-TH231 NRG TENDL-2017, AKONING  
Photon emission for (n,p)



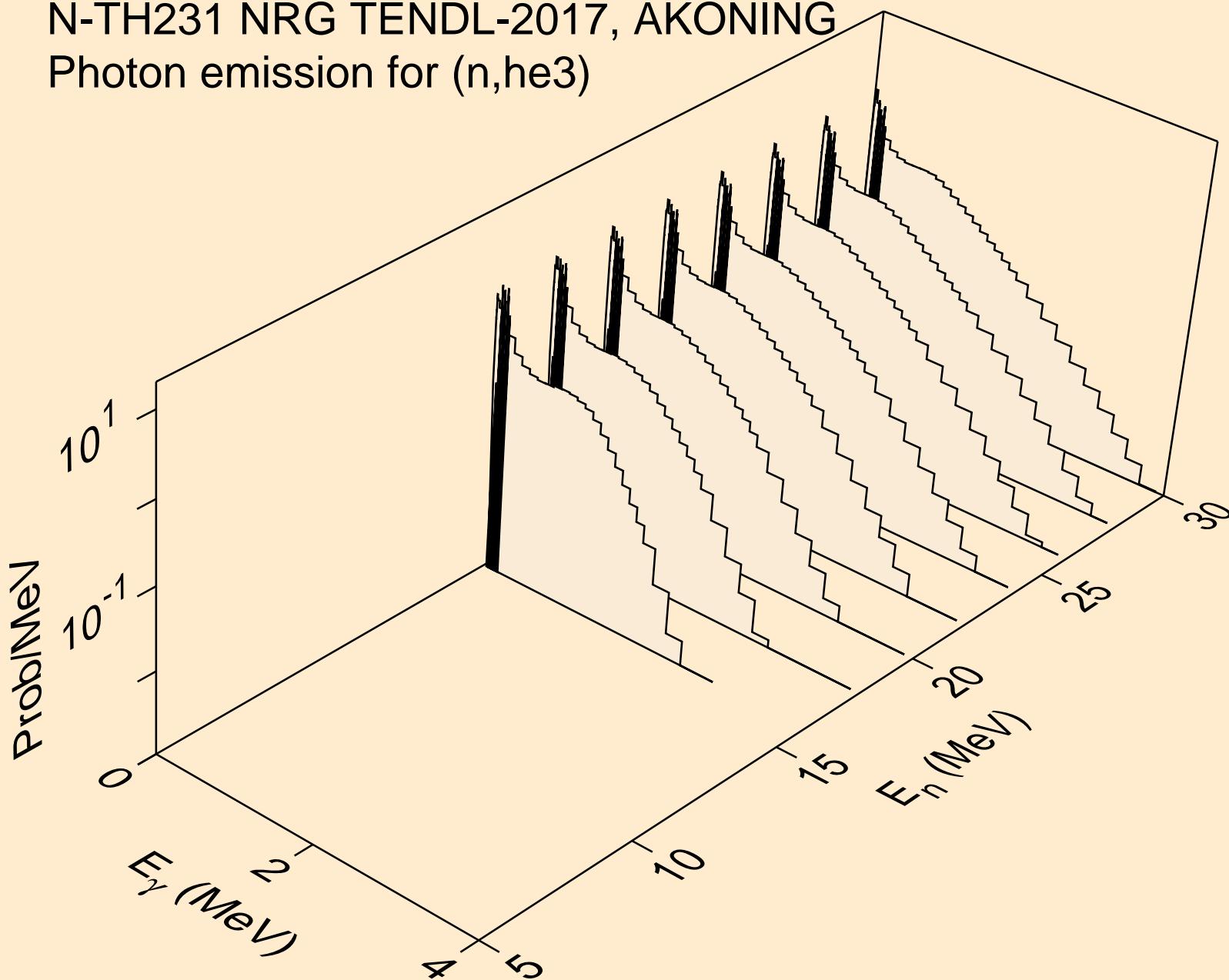
N-TH231 NRG TENDL-2017, AKONING  
Photon emission for (n,d)



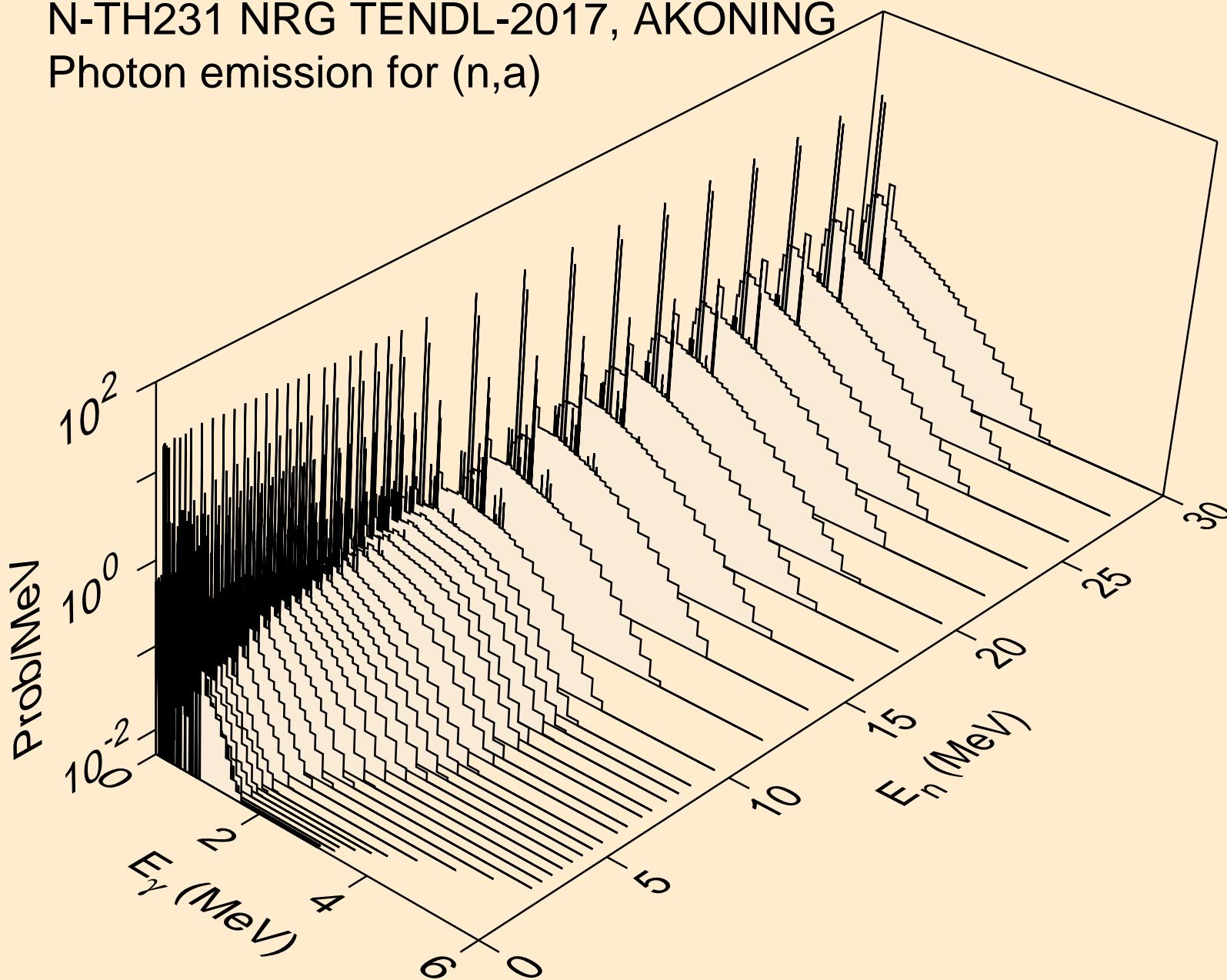
N-TH231 NRG TENDL-2017, AKONING  
Photon emission for (n,t)



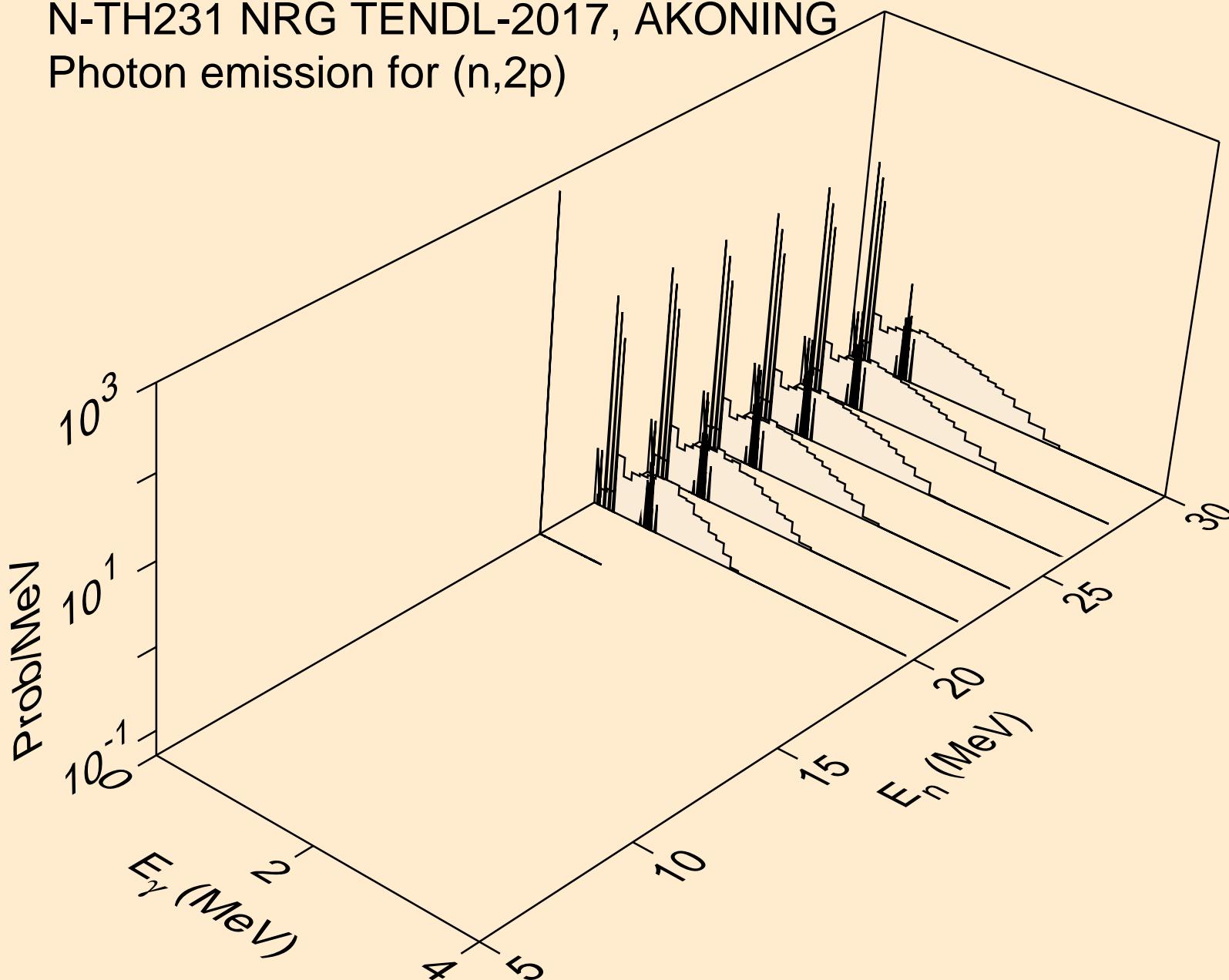
N-TH231 NRG TENDL-2017, AKONING  
Photon emission for (n,he3)



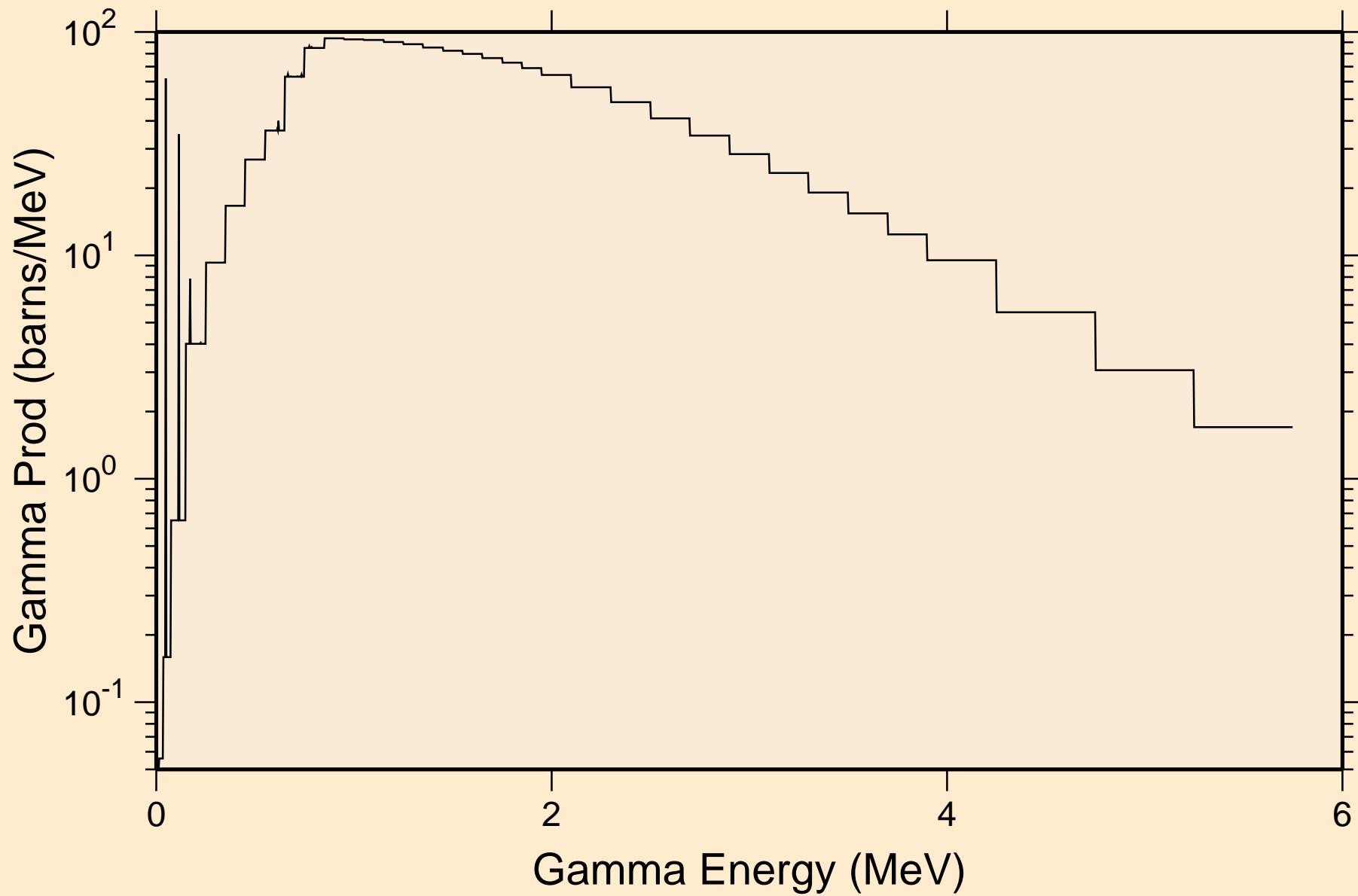
N-TH231 NRG TENDL-2017, AKONING  
Photon emission for (n,a)



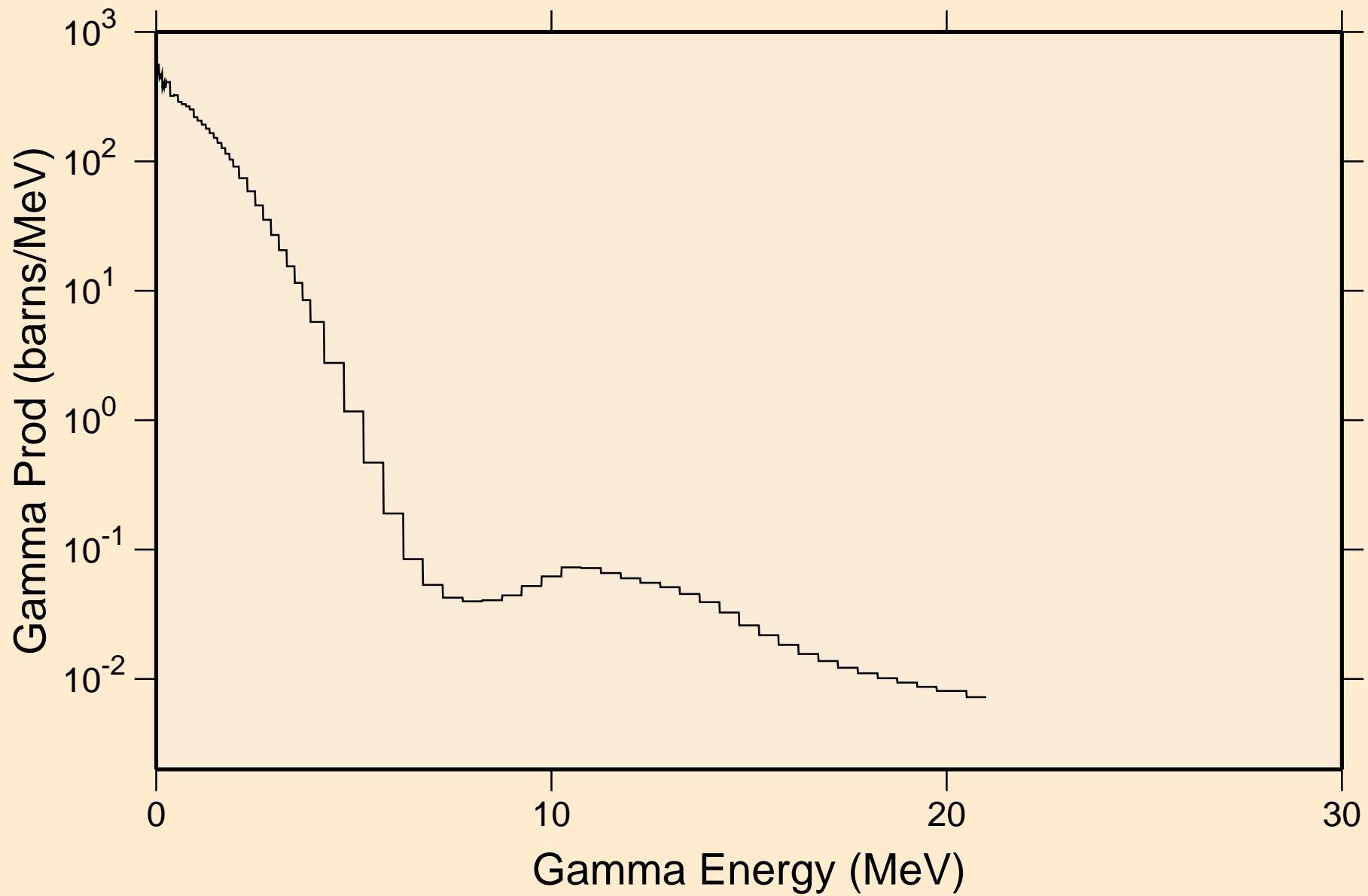
N-TH231 NRG TENDL-2017, AKONING  
Photon emission for (n,2p)



N-TH231 NRG TENDL-2017, AKONING  
thermal capture photon spectrum

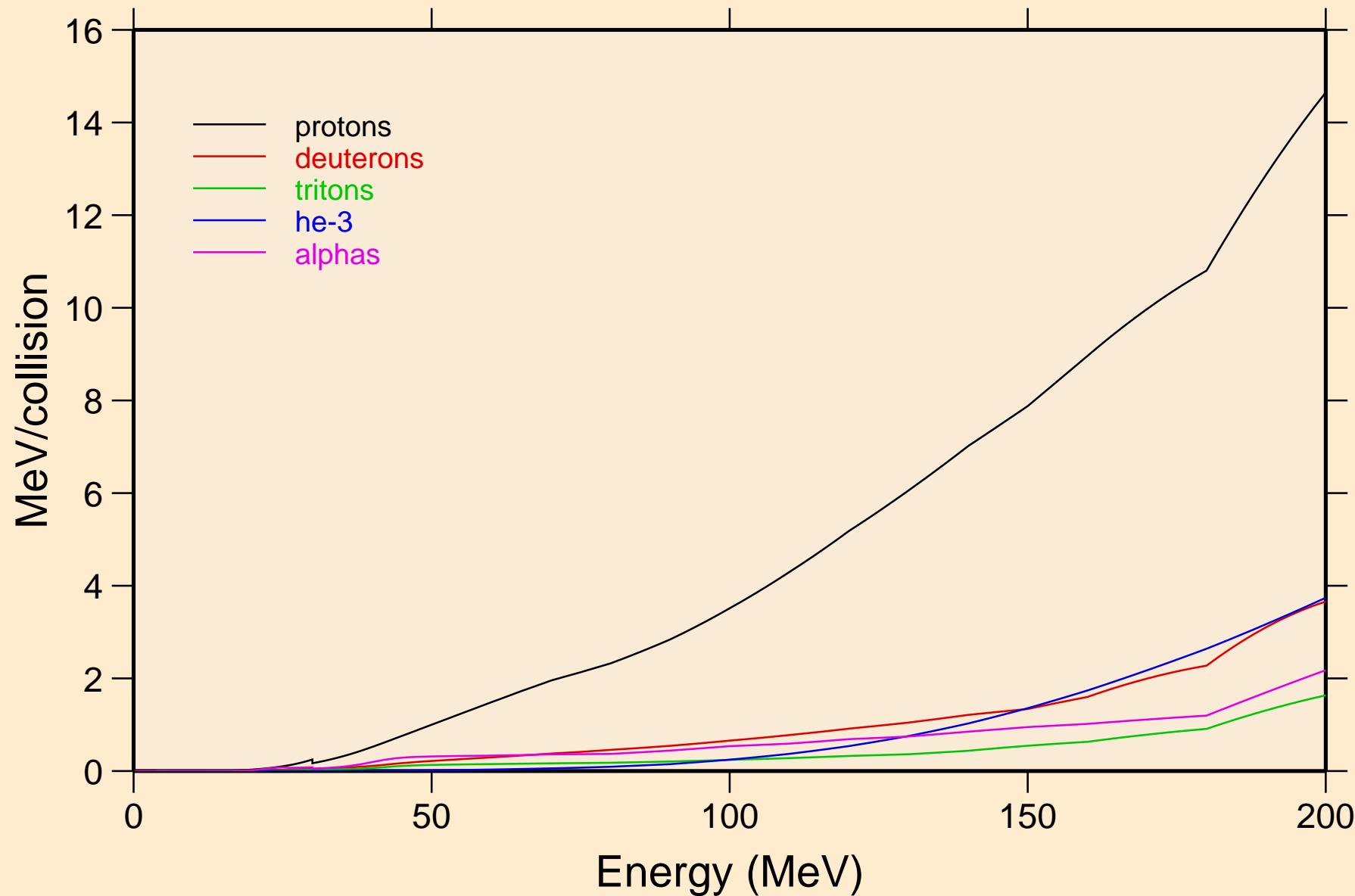


N-TH231 NRG TENDL-2017, AKONING  
14 MeV photon spectrum



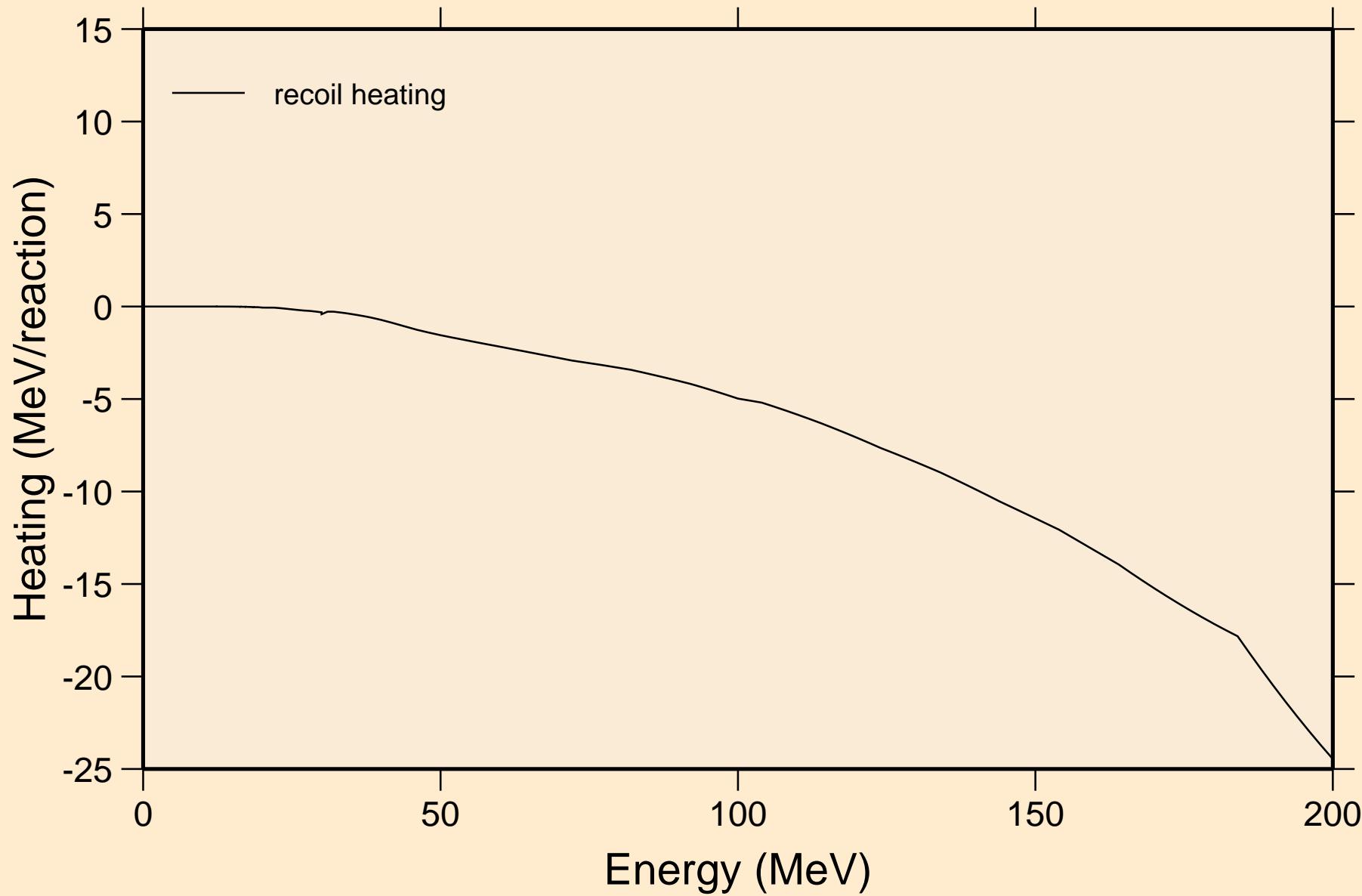
# N-TH231 NRG TENDL-2017, AKONING

## Particle heating contributions

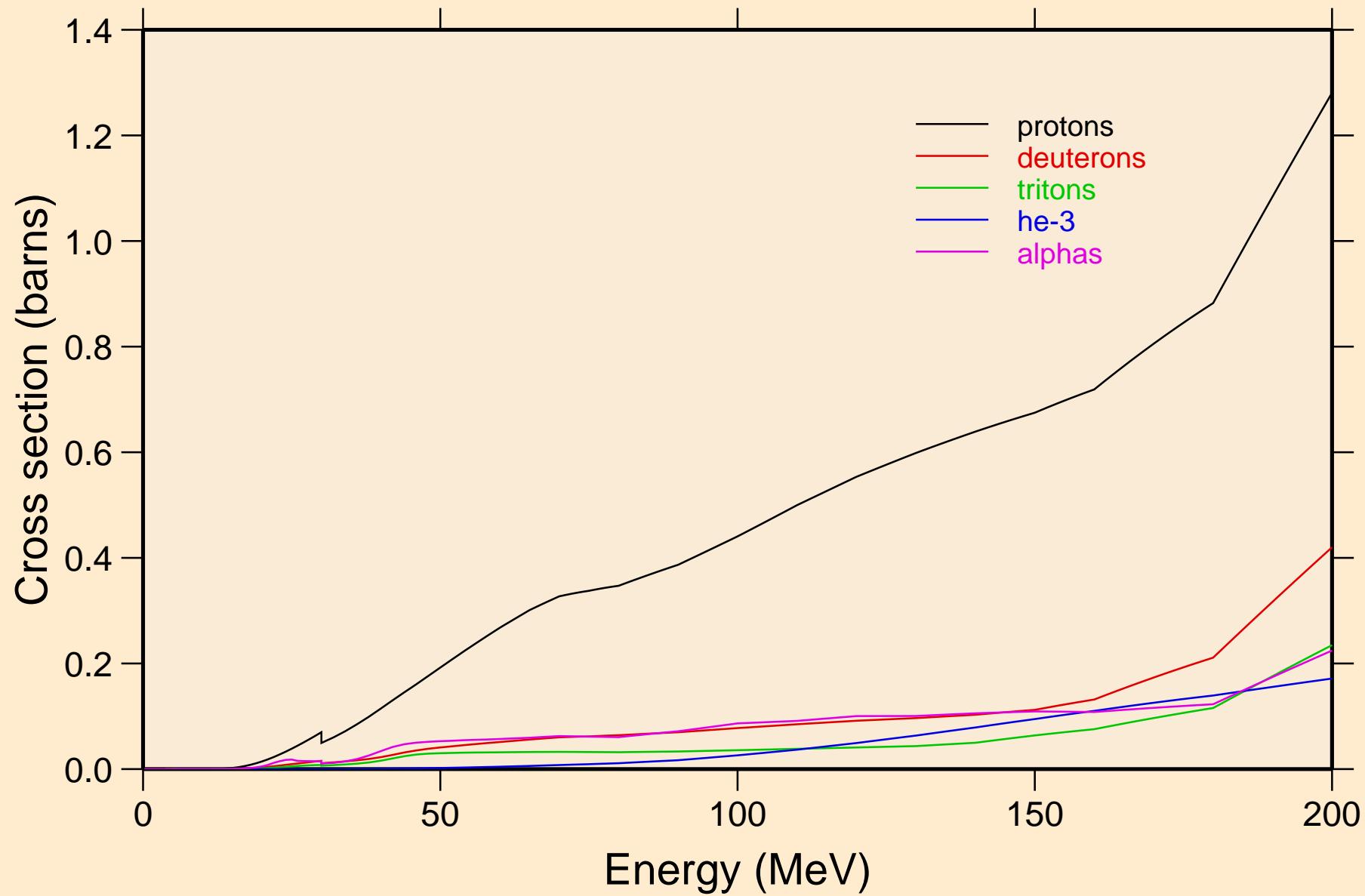


# N-TH231 NRG TENDL-2017, AKONING

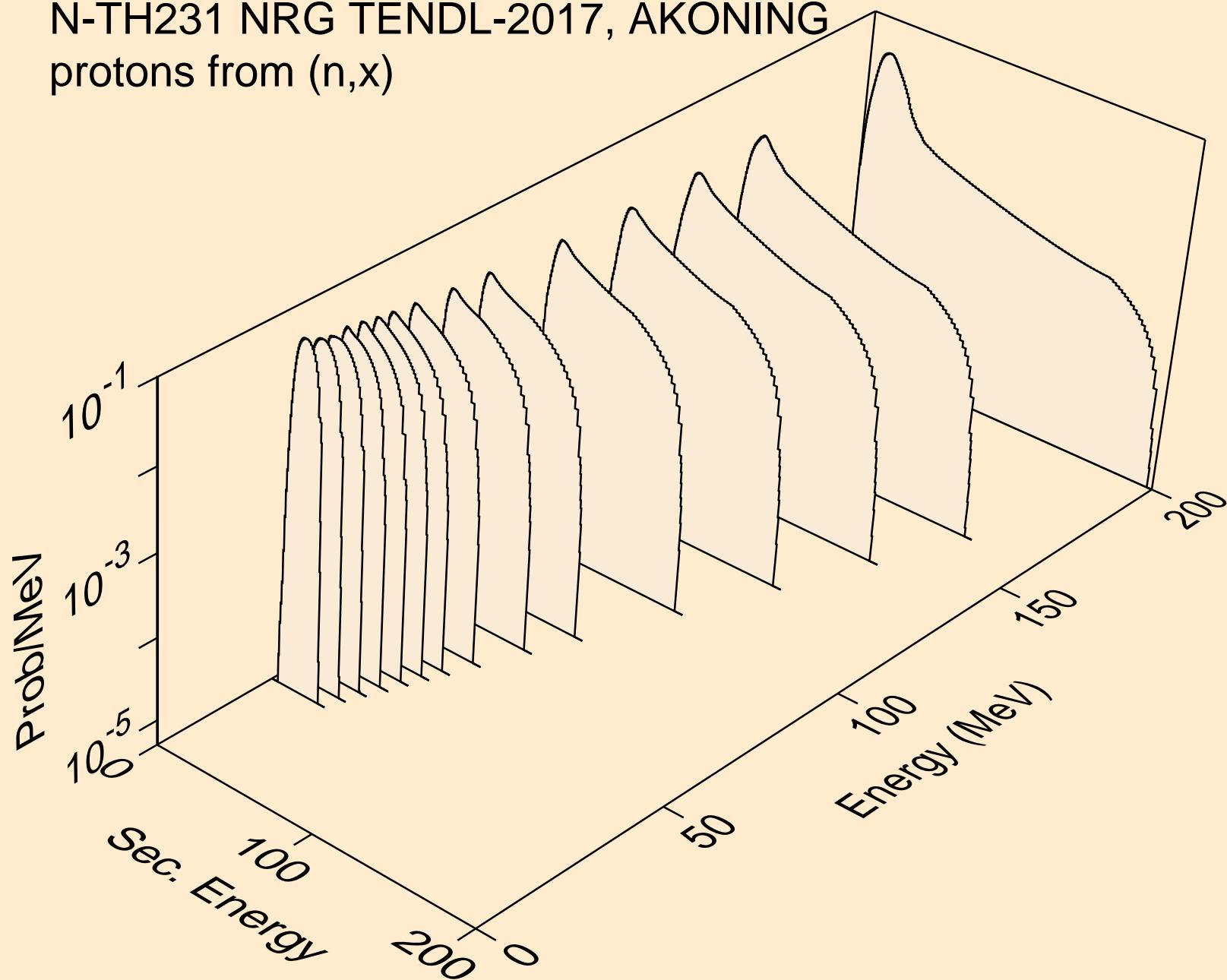
## Recoil Heating



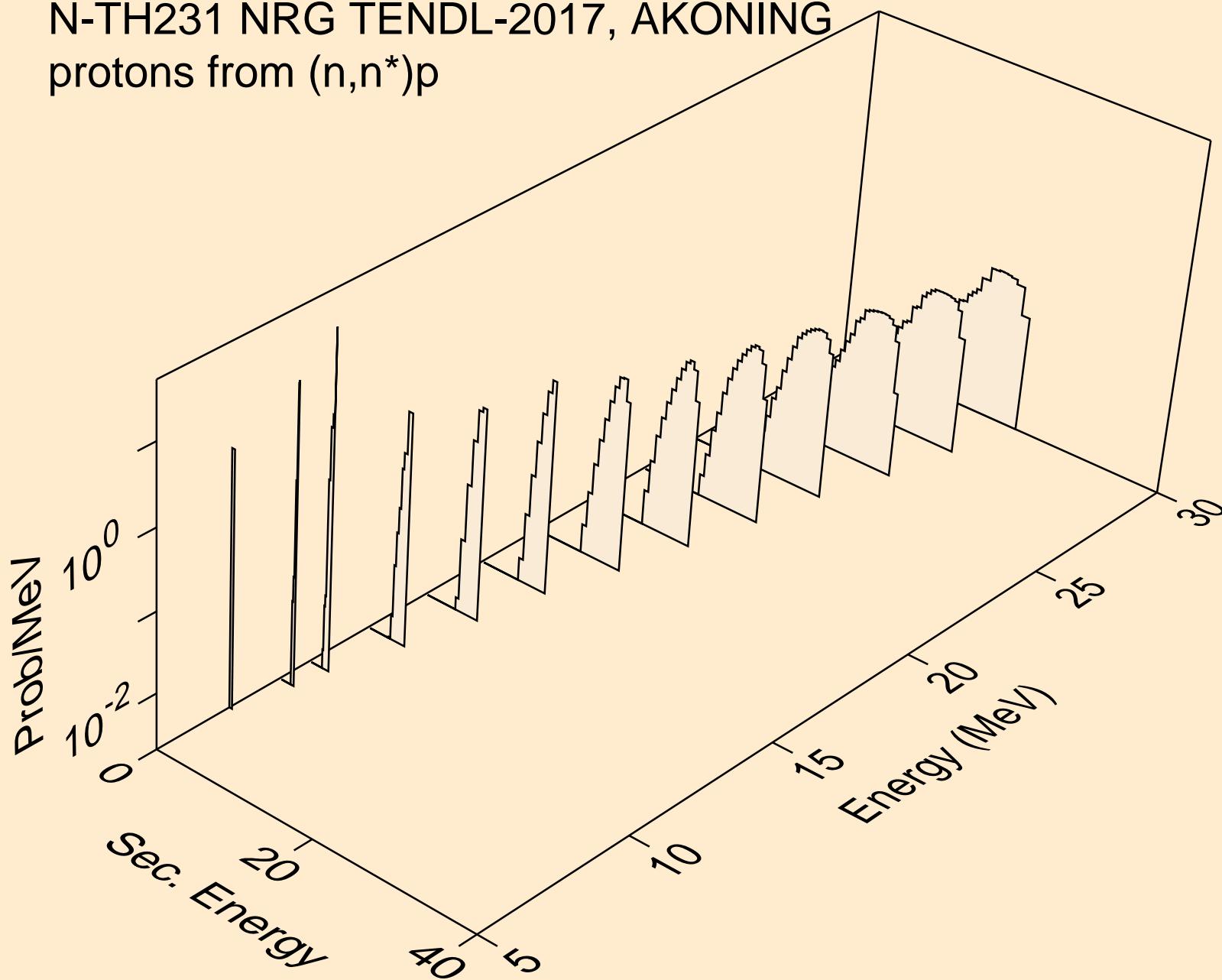
N-TH231 NRG TENDL-2017, AKONING  
Particle production cross sections



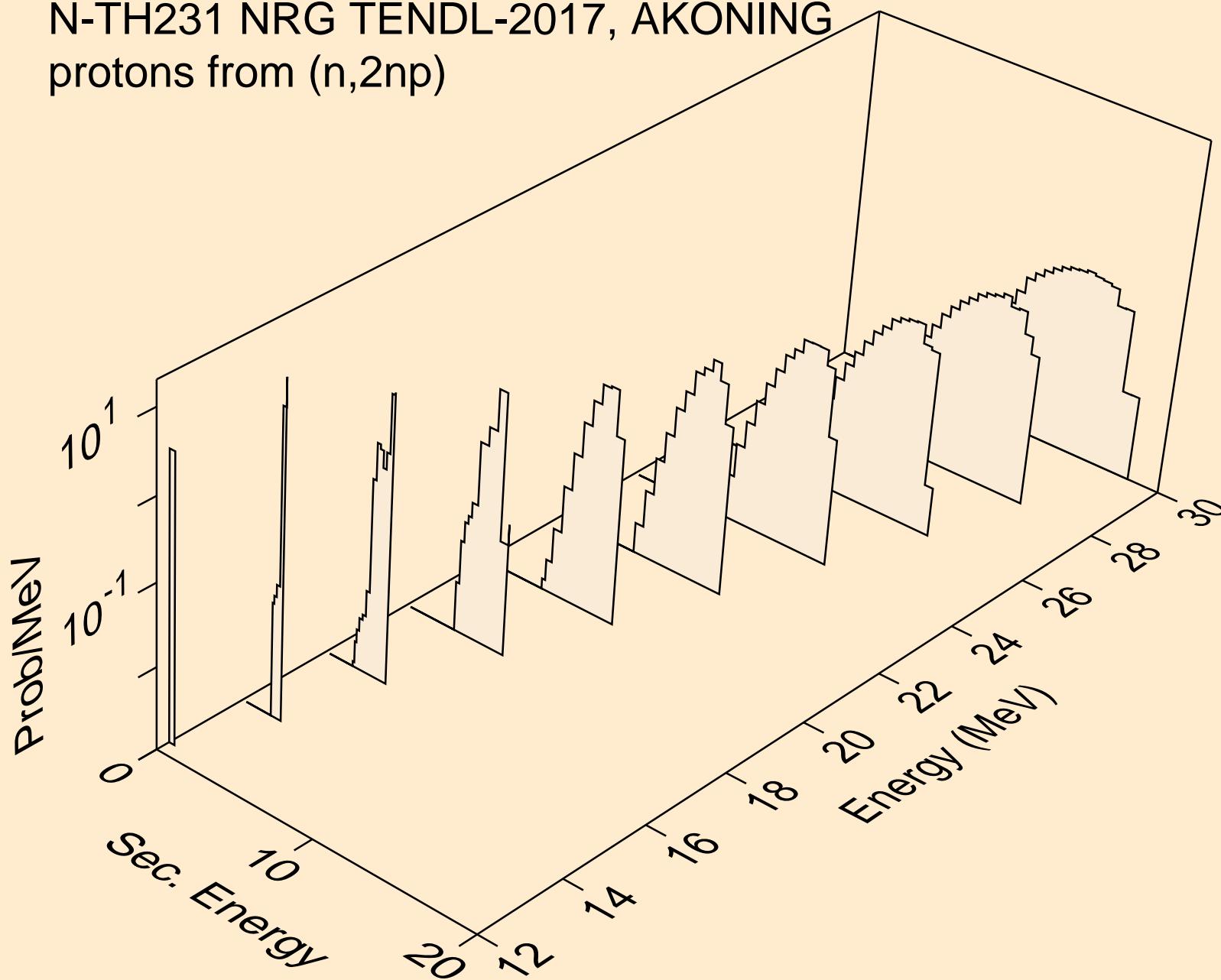
N-TH231 NRG TENDL-2017, AKONING  
protons from ( $n,x$ )



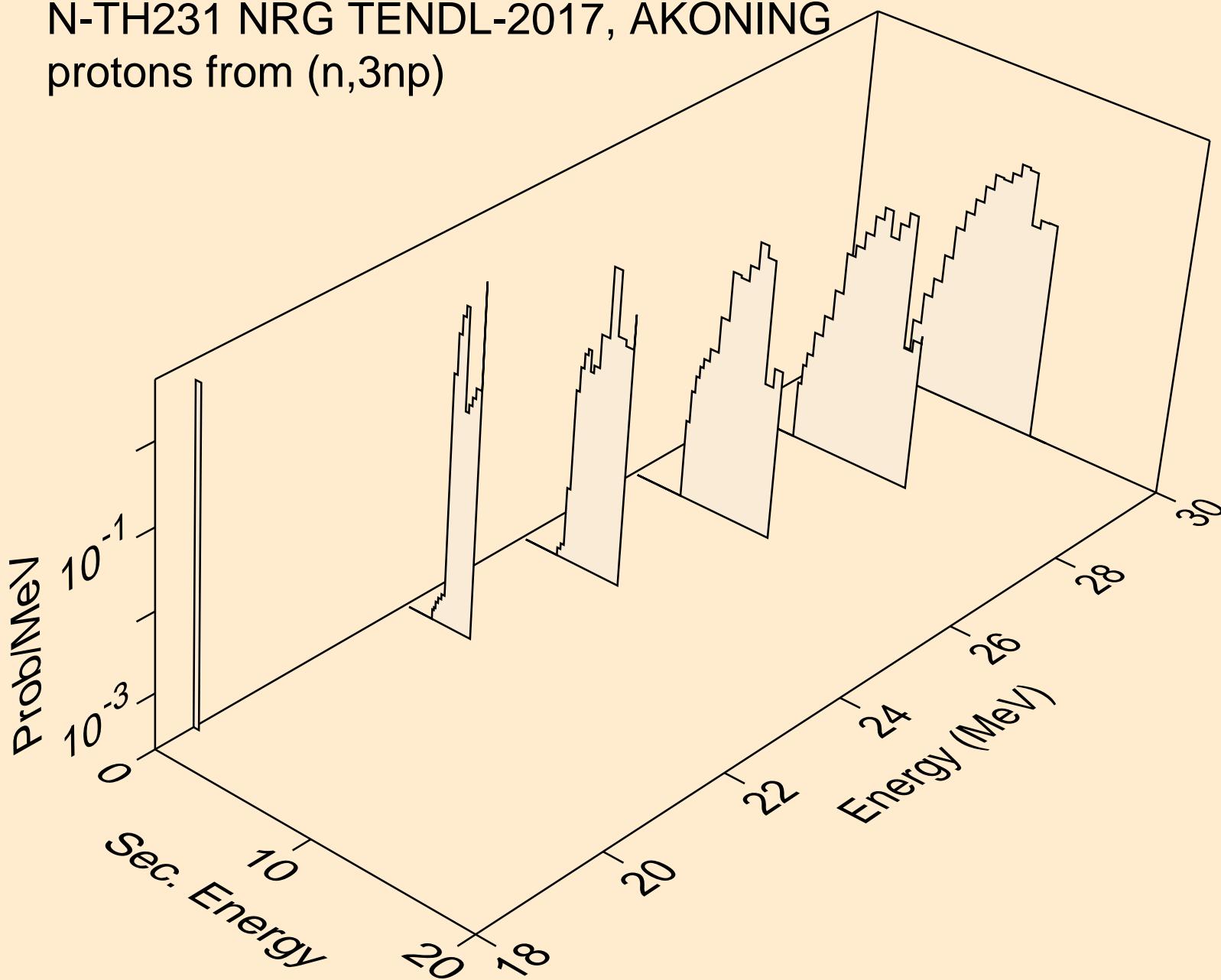
N-TH231 NRG TENDL-2017, AKONING  
protons from  $(n,n^*)p$



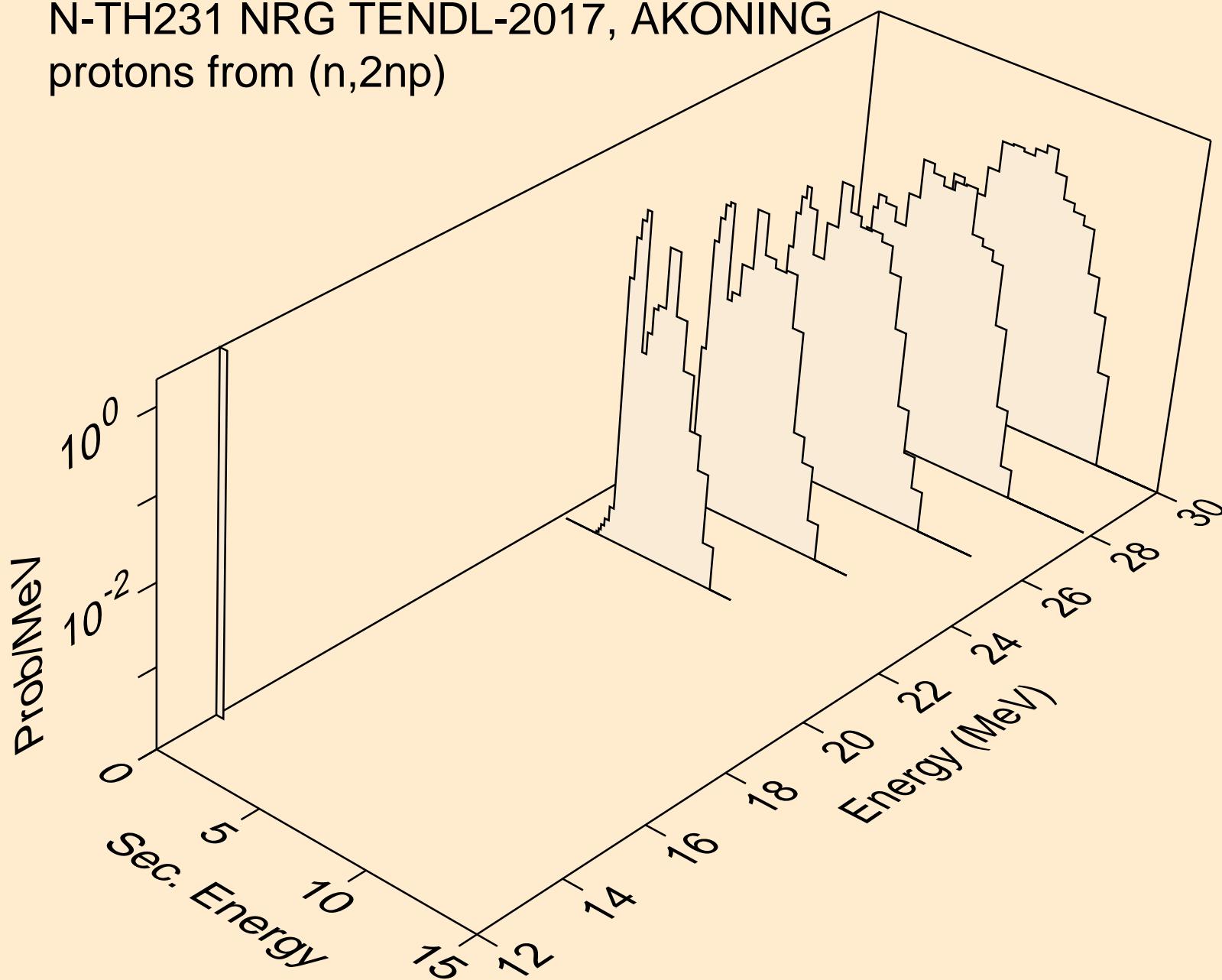
N-TH231 NRG TENDL-2017, AKONING  
protons from ( $n,2np$ )



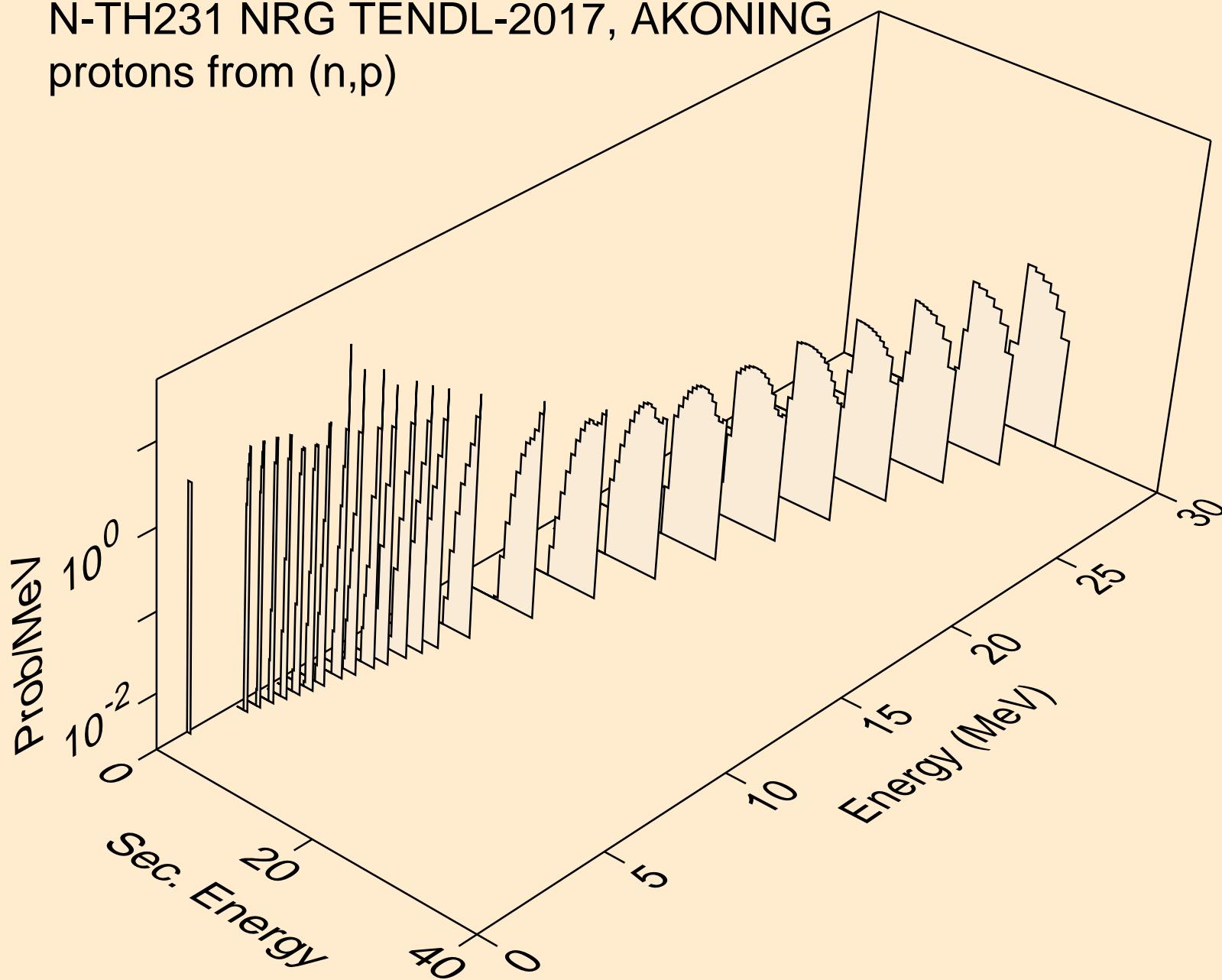
N-TH231 NRG TENDL-2017, AKONING  
protons from ( $n,3np$ )



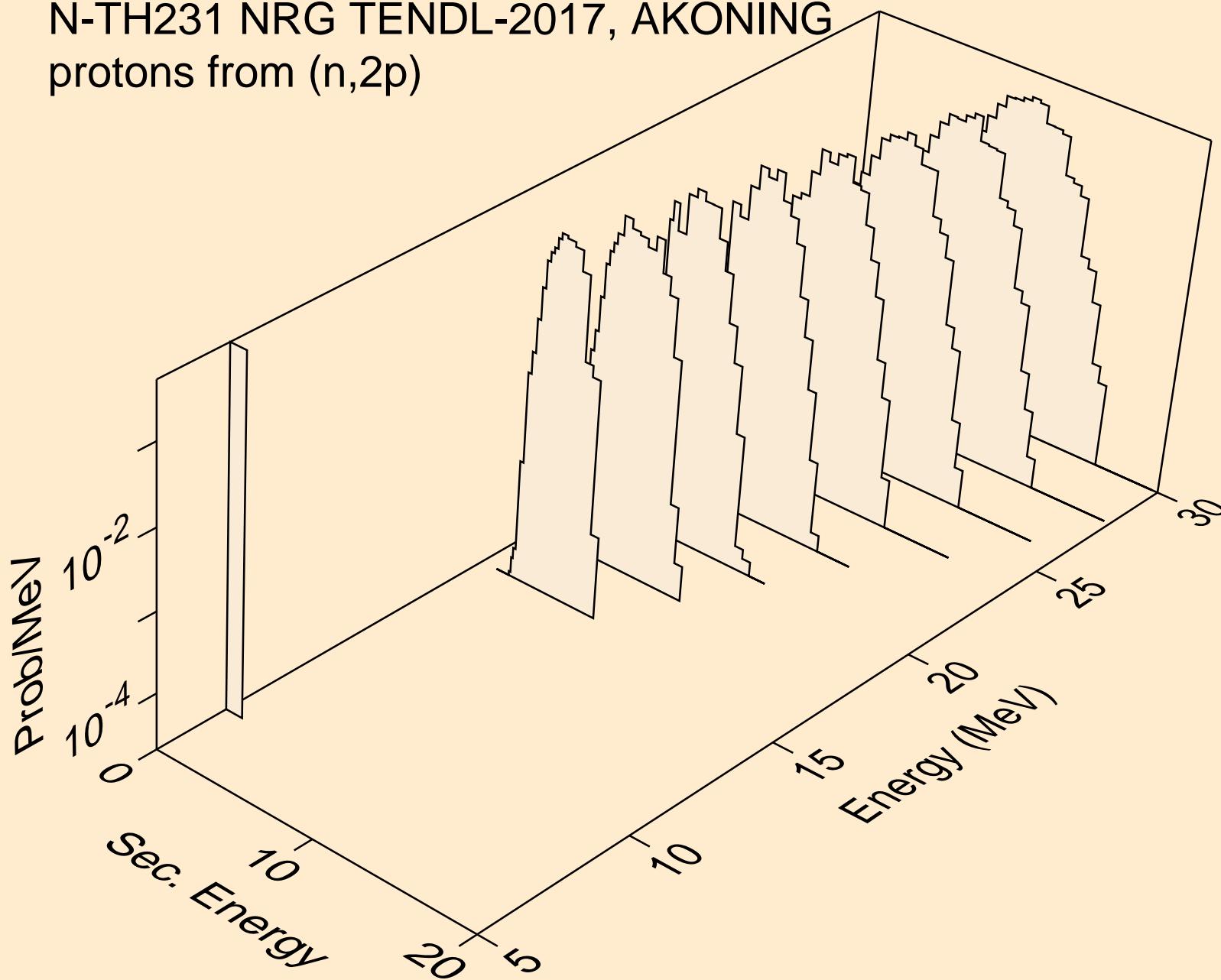
N-TH231 NRG TENDL-2017, AKONING  
protons from ( $n,2np$ )



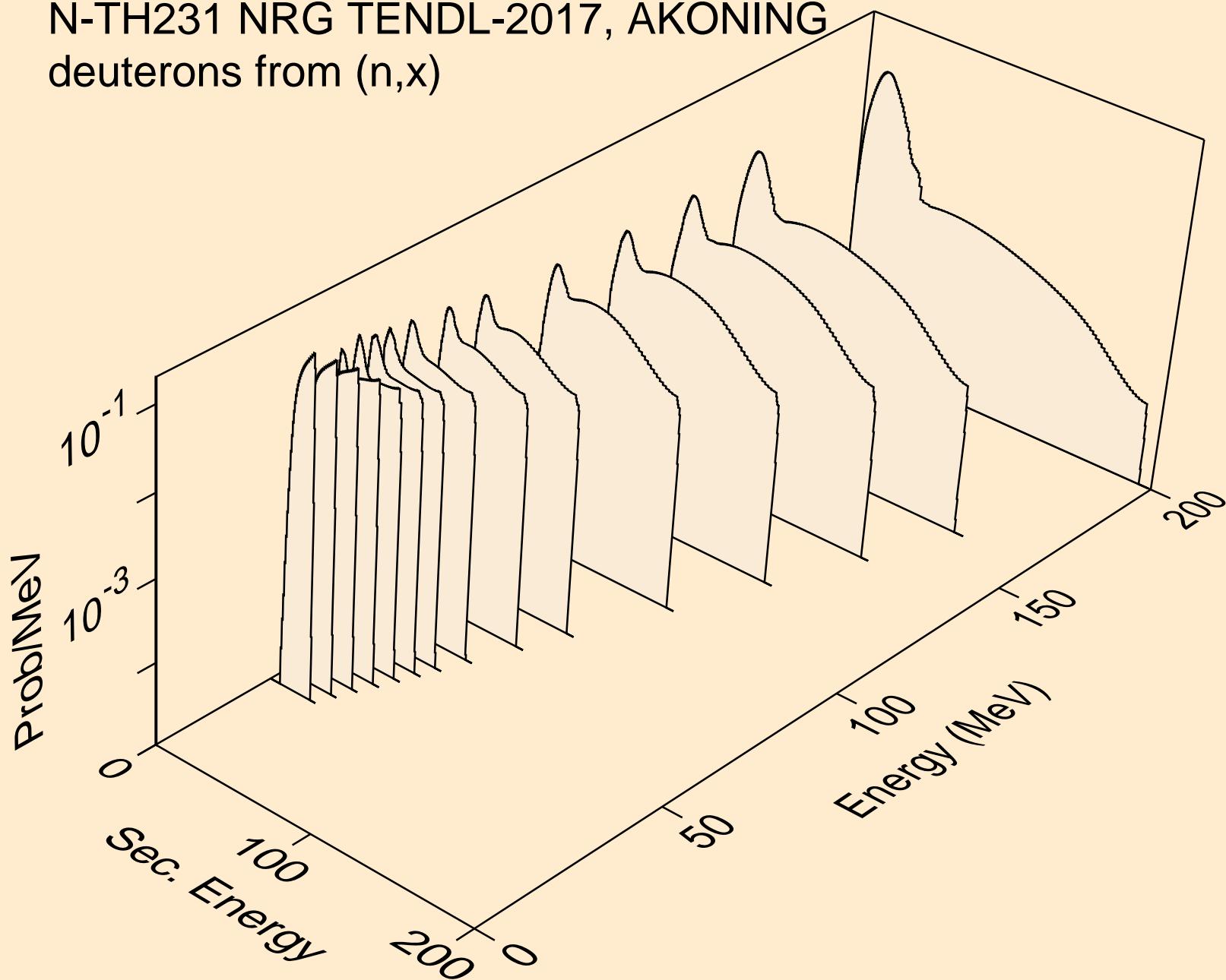
N-TH231 NRG TENDL-2017, AKONING  
protons from (n,p)



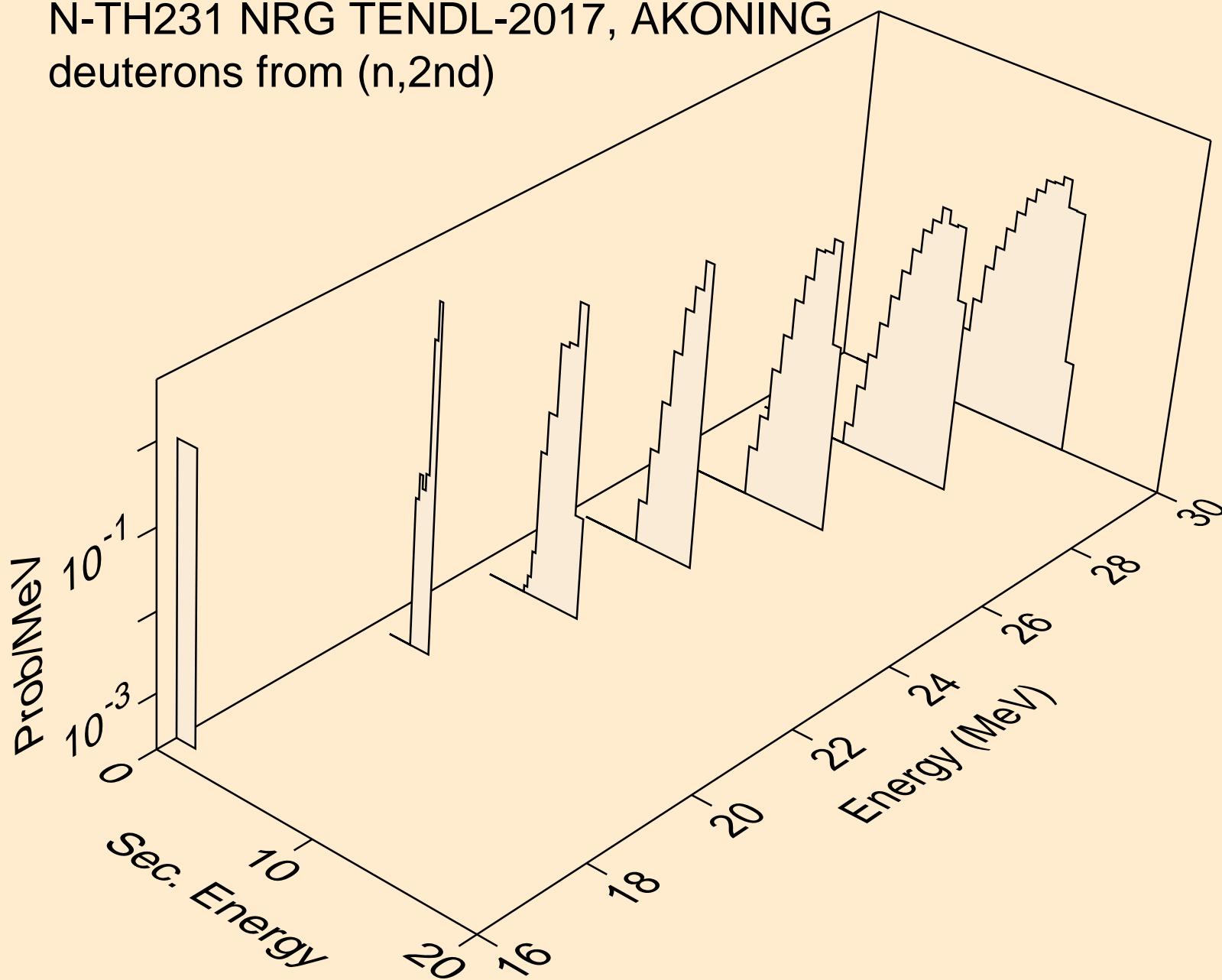
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protons from ( $n,2p$ )



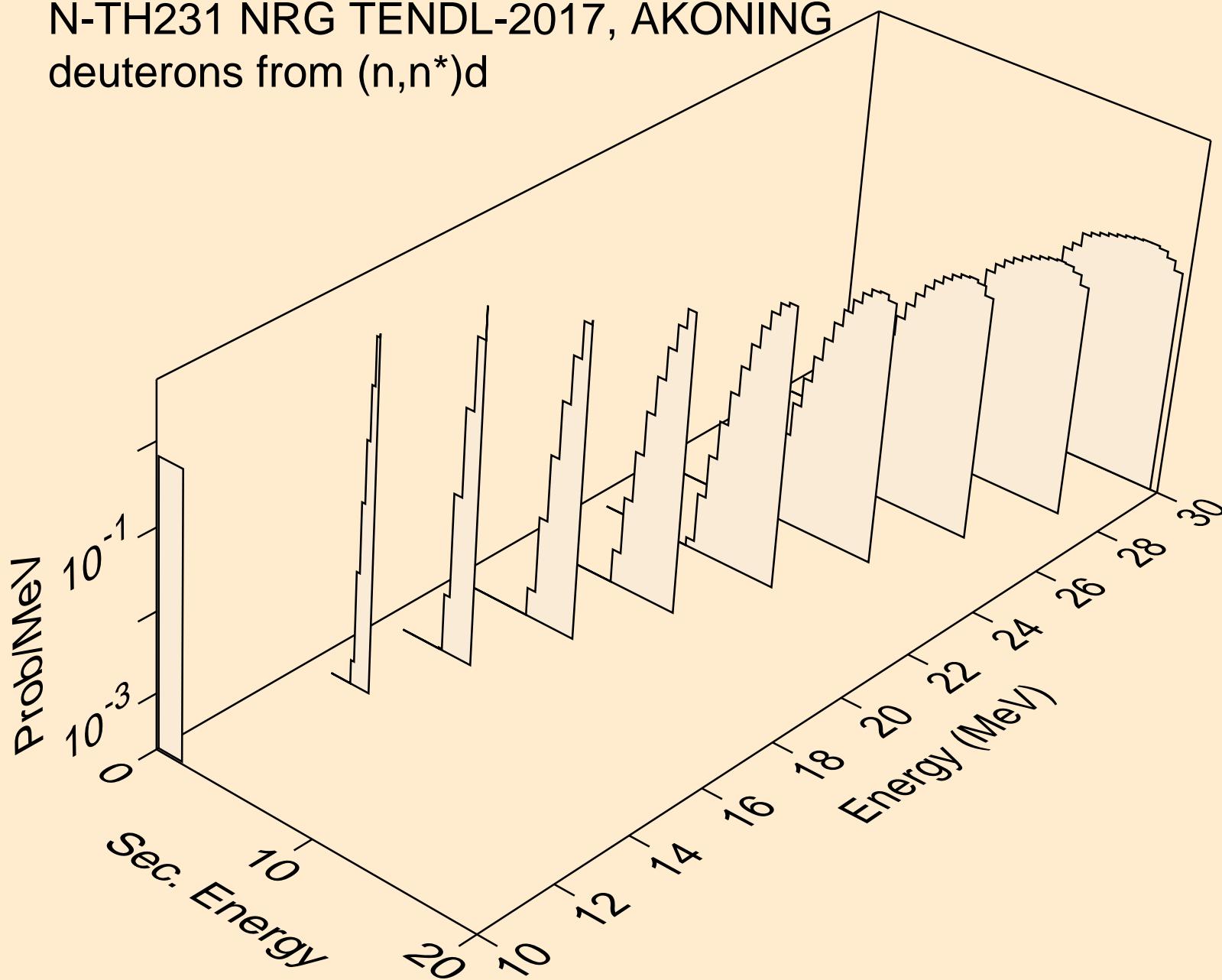
N-TH231 NRG TENDL-2017, AKONING  
deuterons from ( $n,x$ )



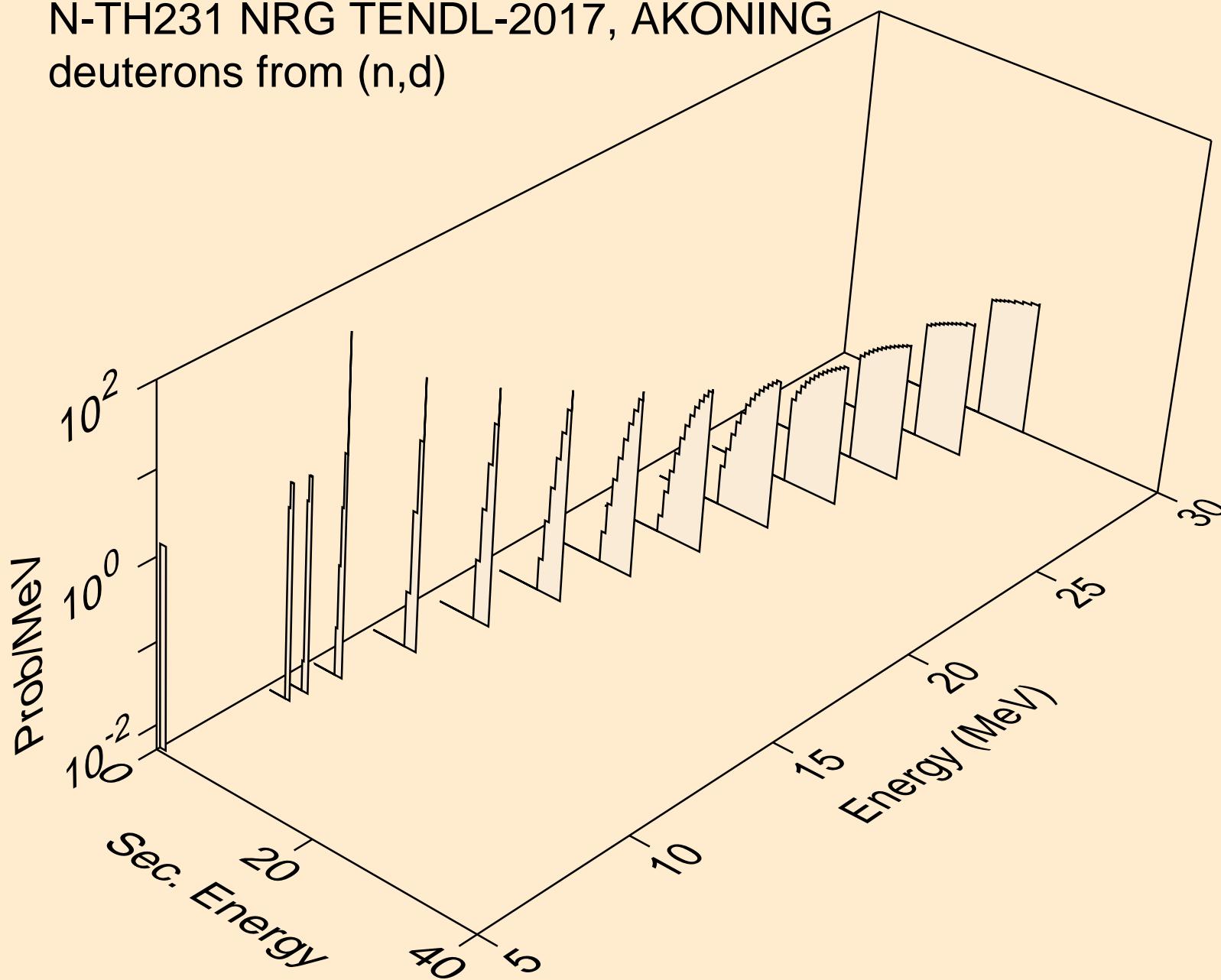
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deuterons from ( $n,2nd$ )



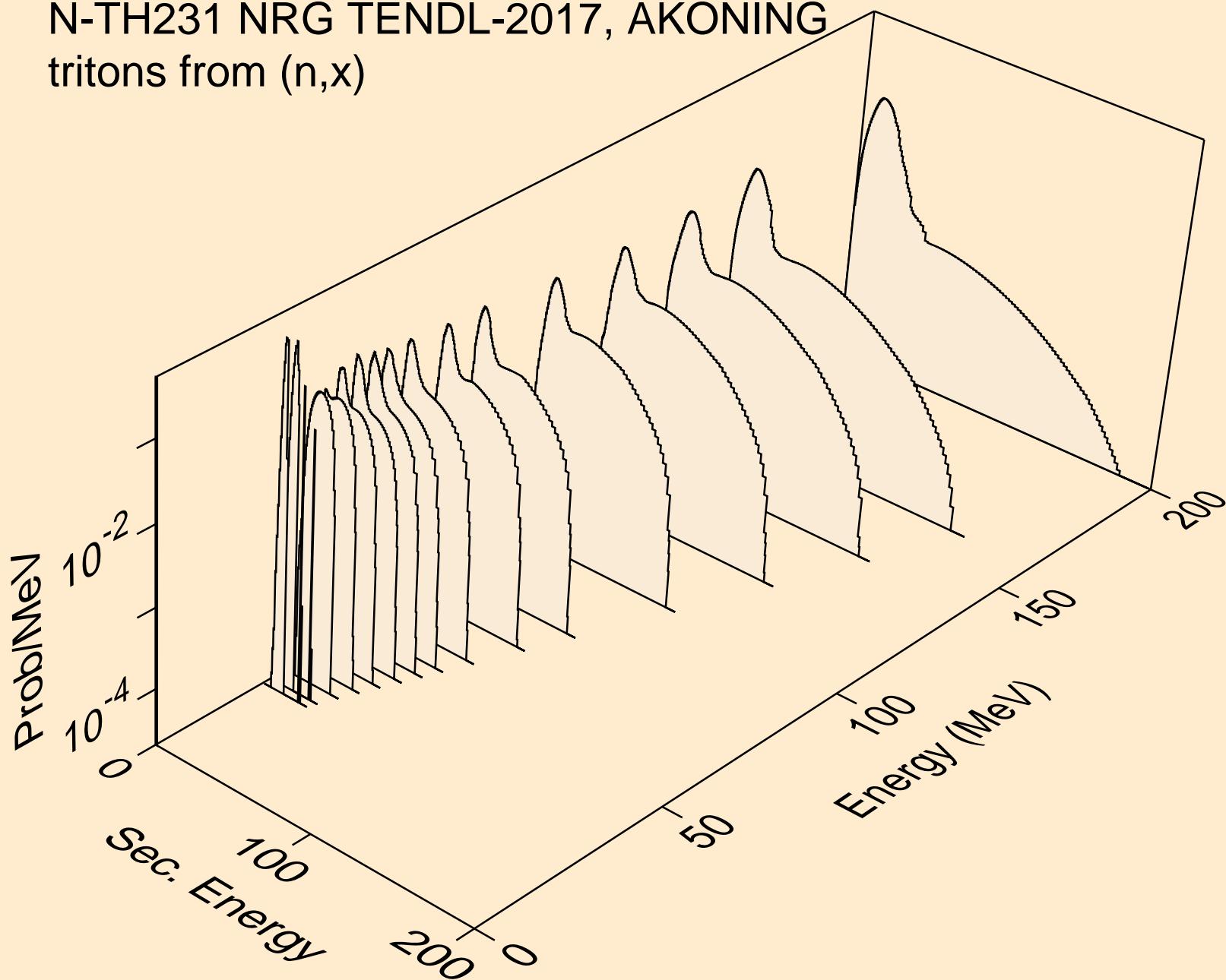
N-TH231 NRG TENDL-2017, AKONING  
deuterons from  $(n,n^*)d$



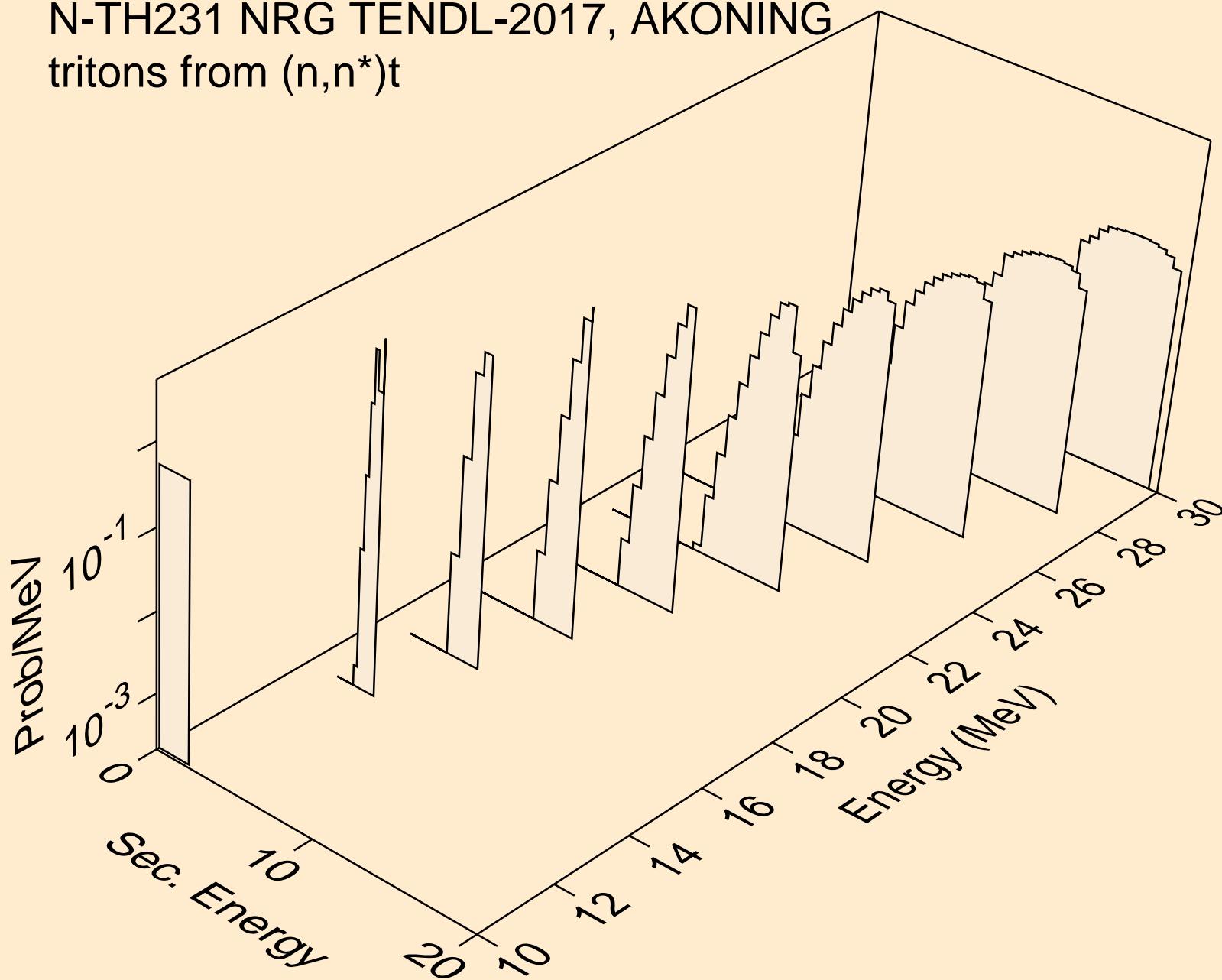
N-TH231 NRG TENDL-2017, AKONING  
deuterons from ( $n,d$ )



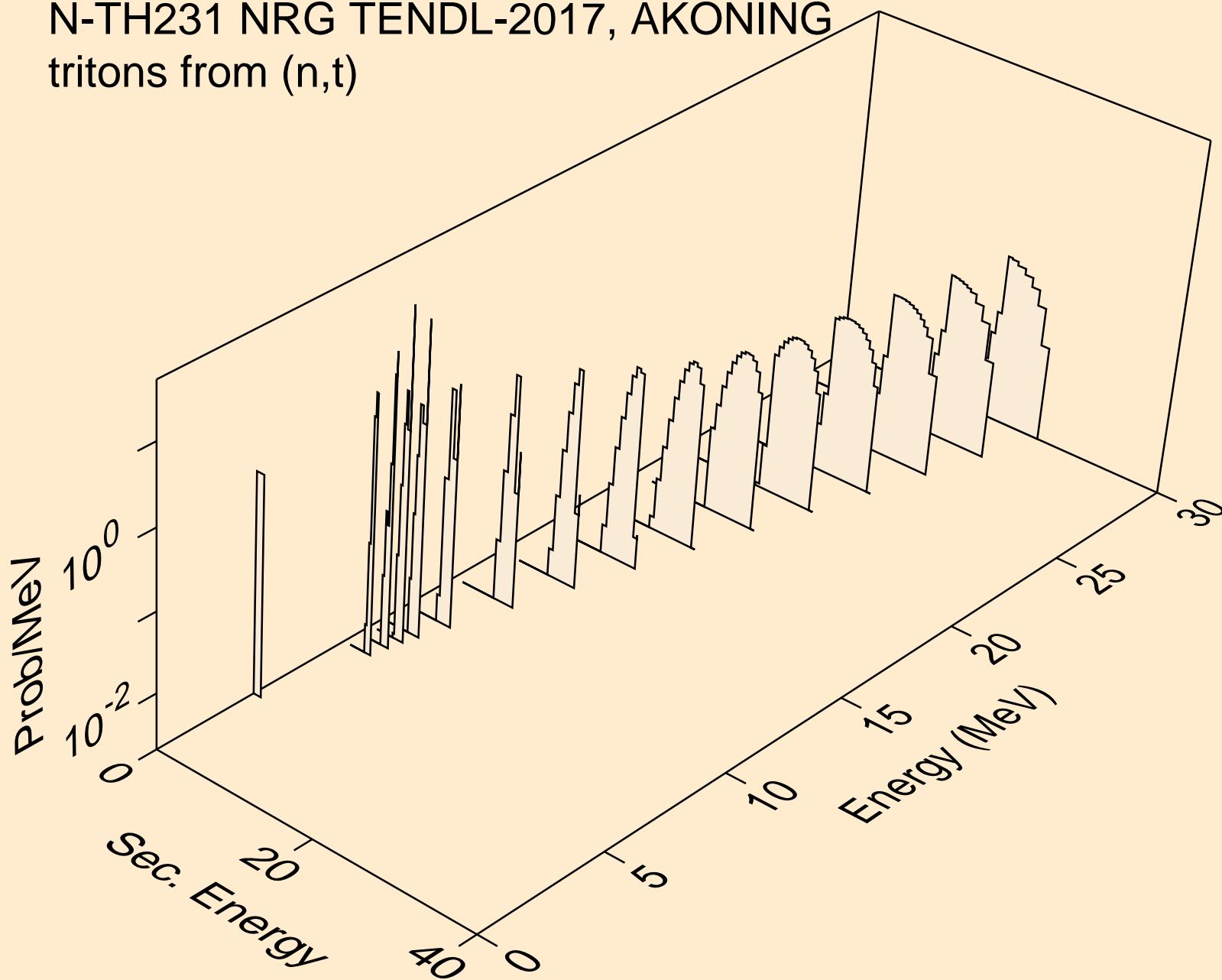
N-TH231 NRG TENDL-2017, AKONING  
tritons from ( $n,x$ )



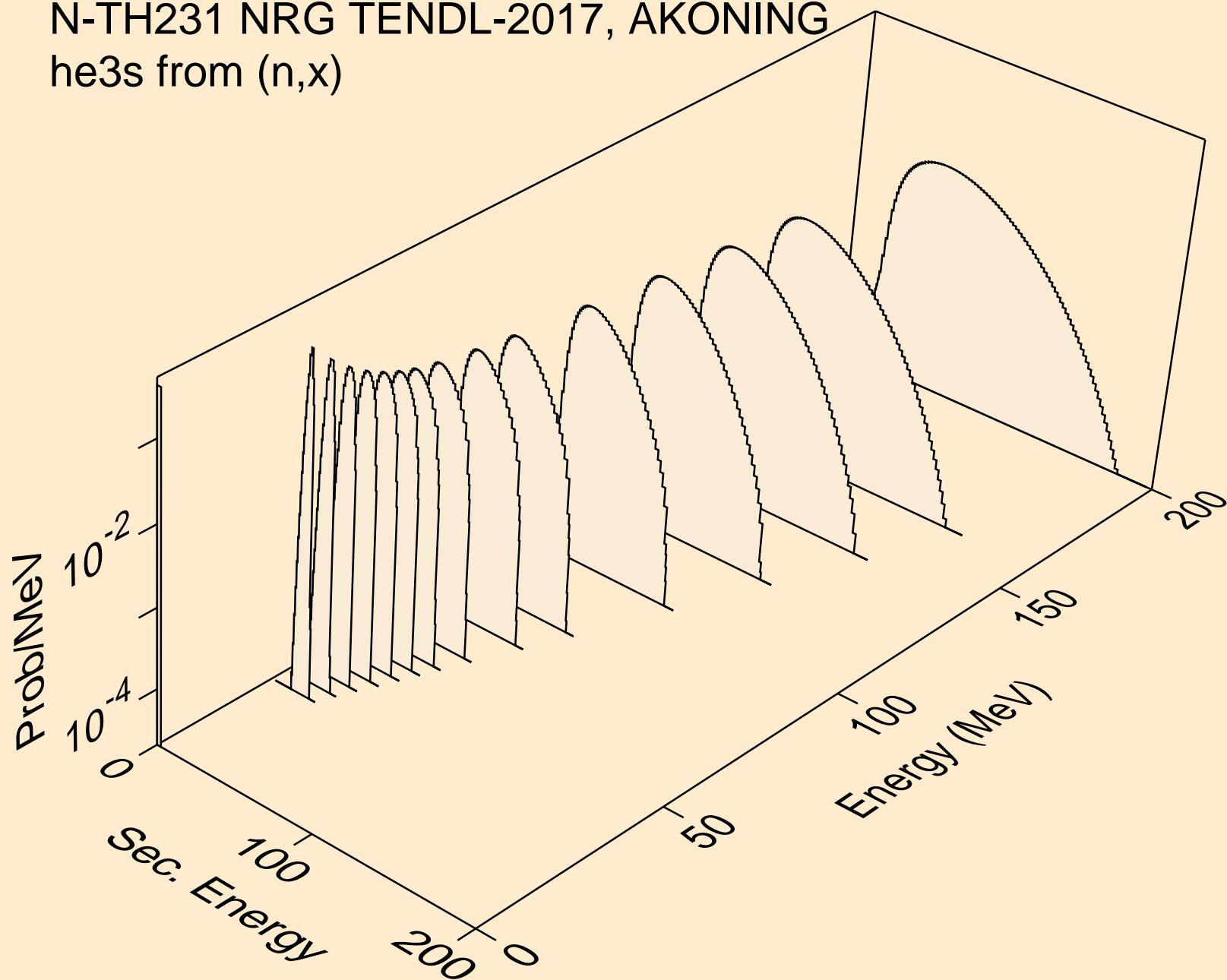
N-TH231 NRG TENDL-2017, AKONING  
tritons from  $(n,n^*)t$



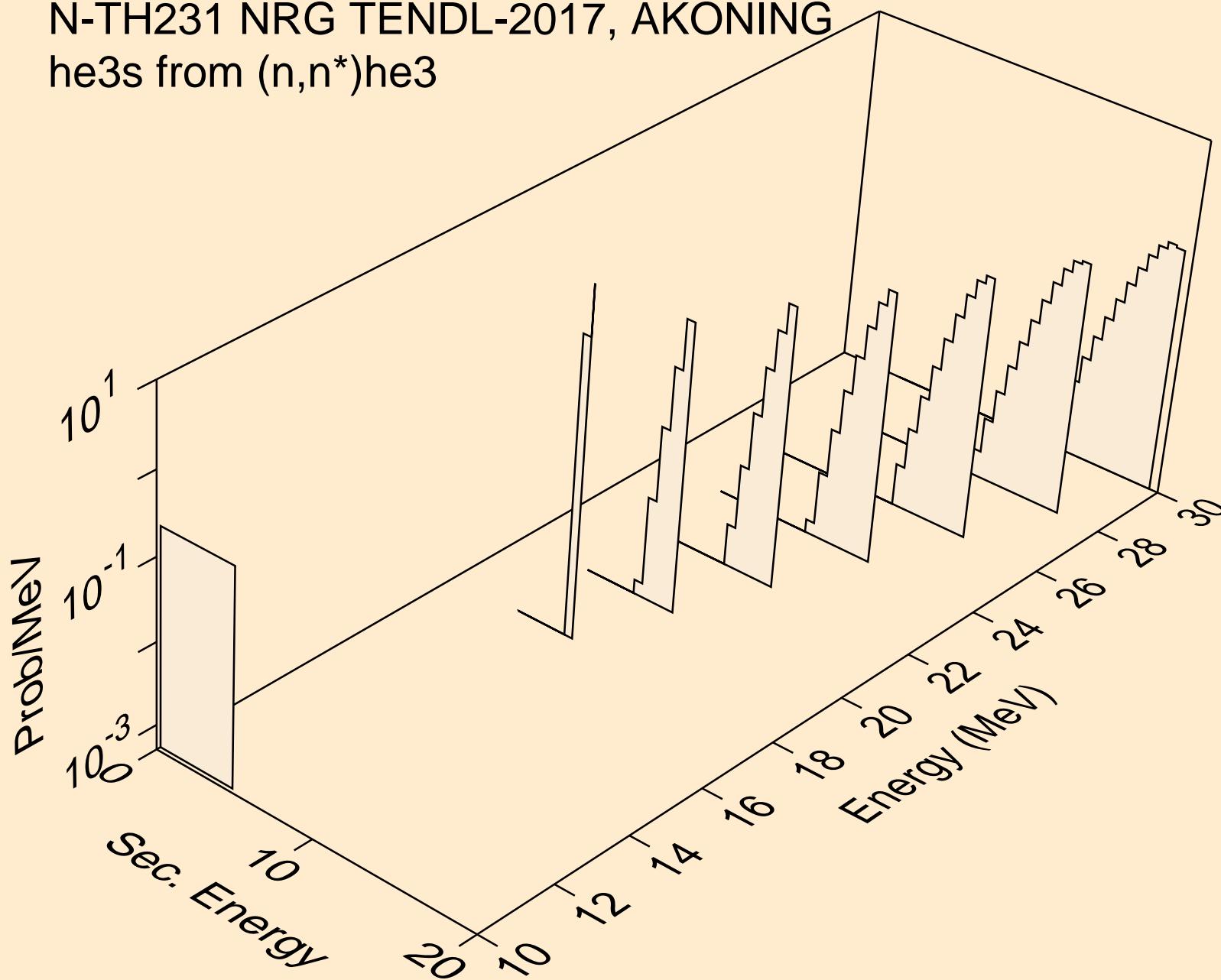
N-TH231 NRG TENDL-2017, AKONING  
tritons from (n,t)



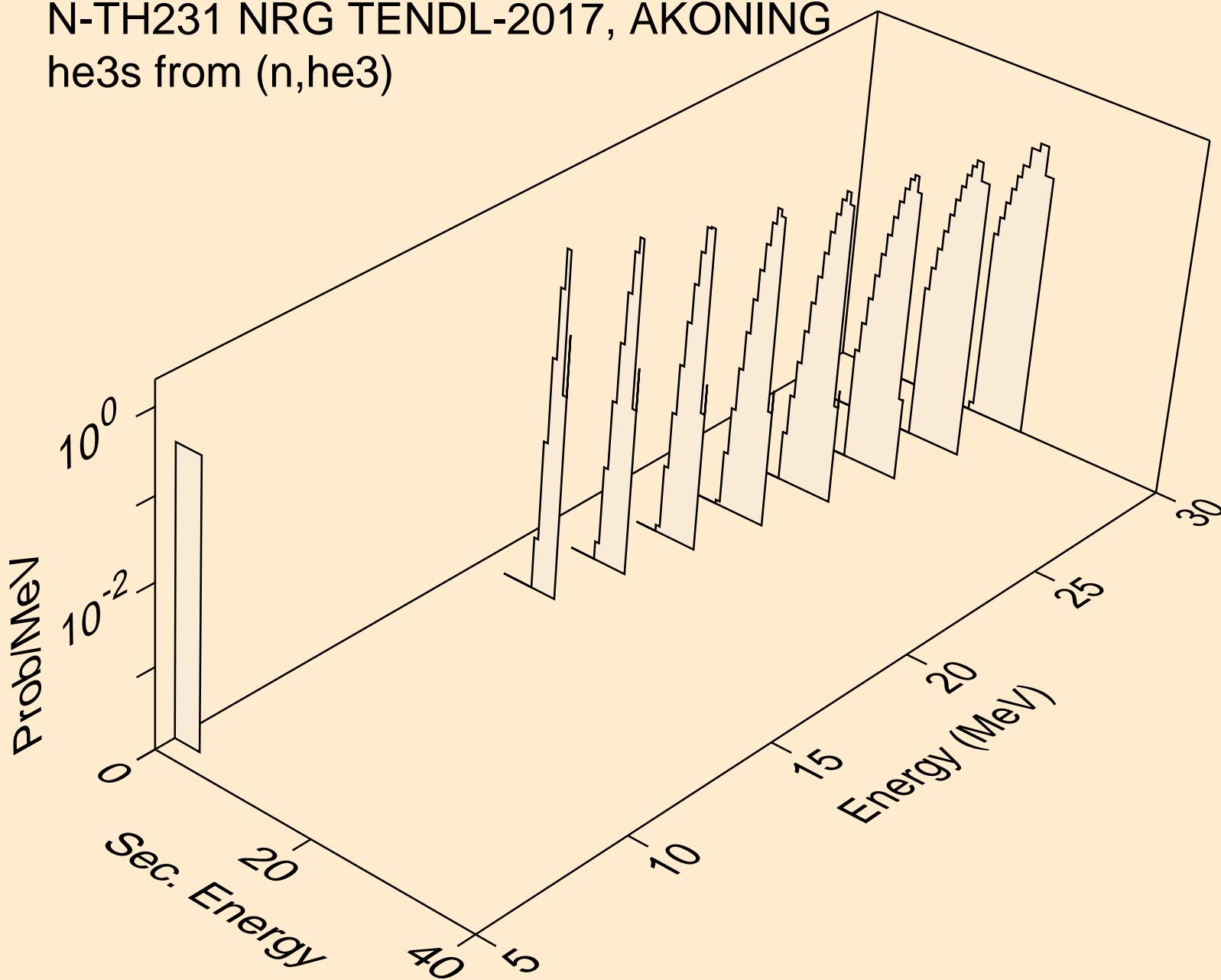
N-TH231 NRG TENDL-2017, AKONING  
he3s from (n,x)



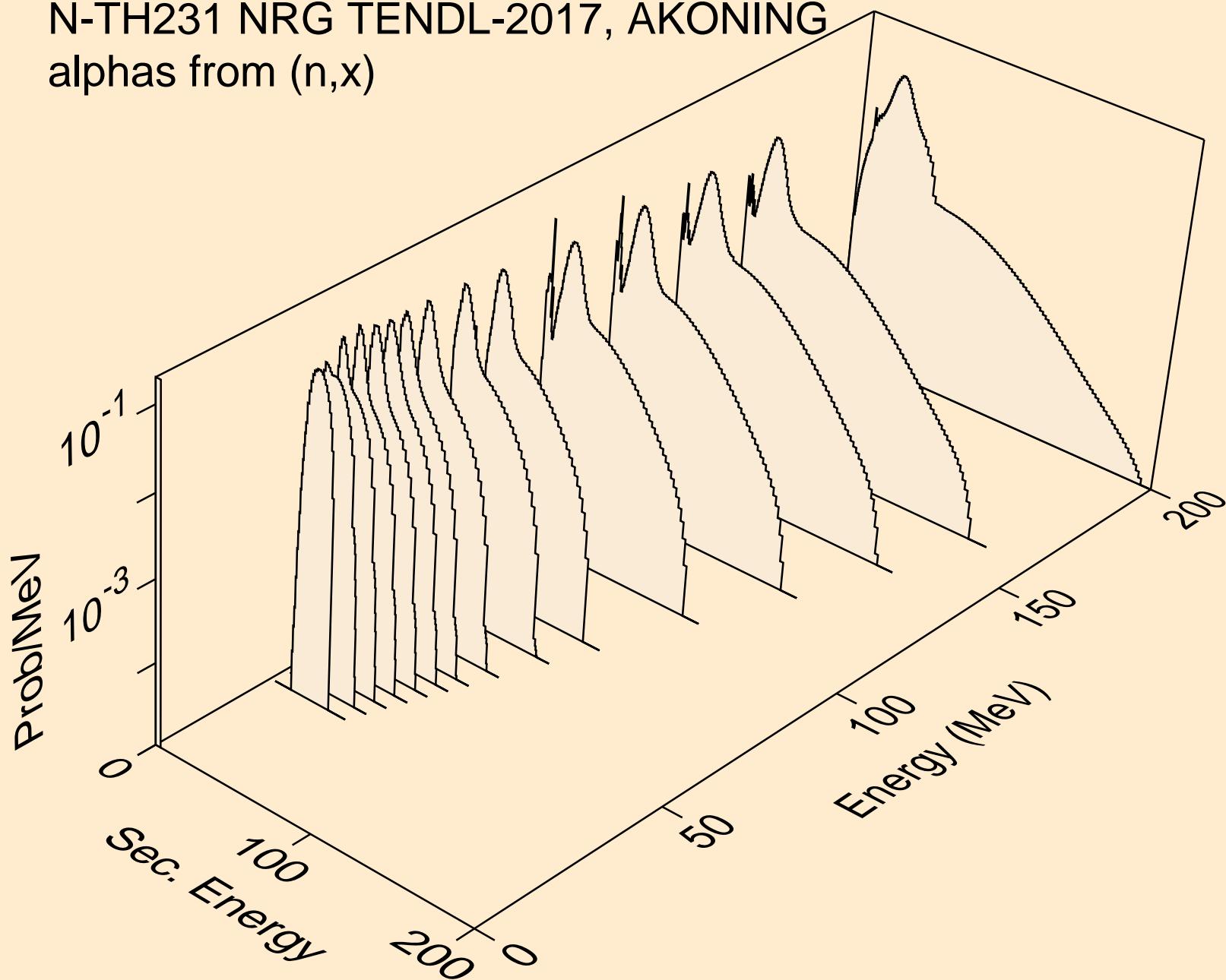
N-TH231 NRG TENDL-2017, AKONING  
he3s from  $(n,n^*)\text{he3}$



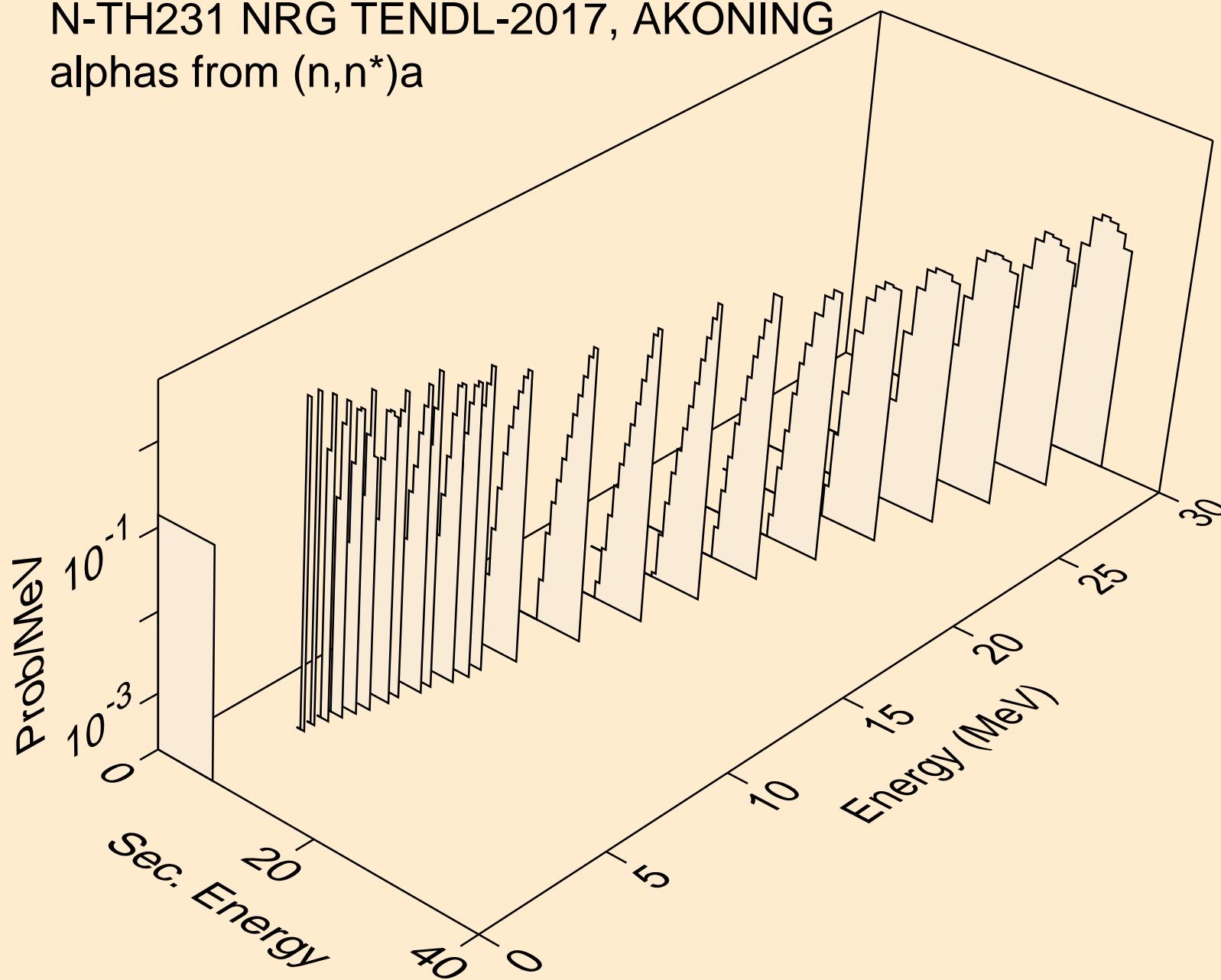
N-TH231 NRG TENDL-2017, AKONING  
he3s from (n,he3)



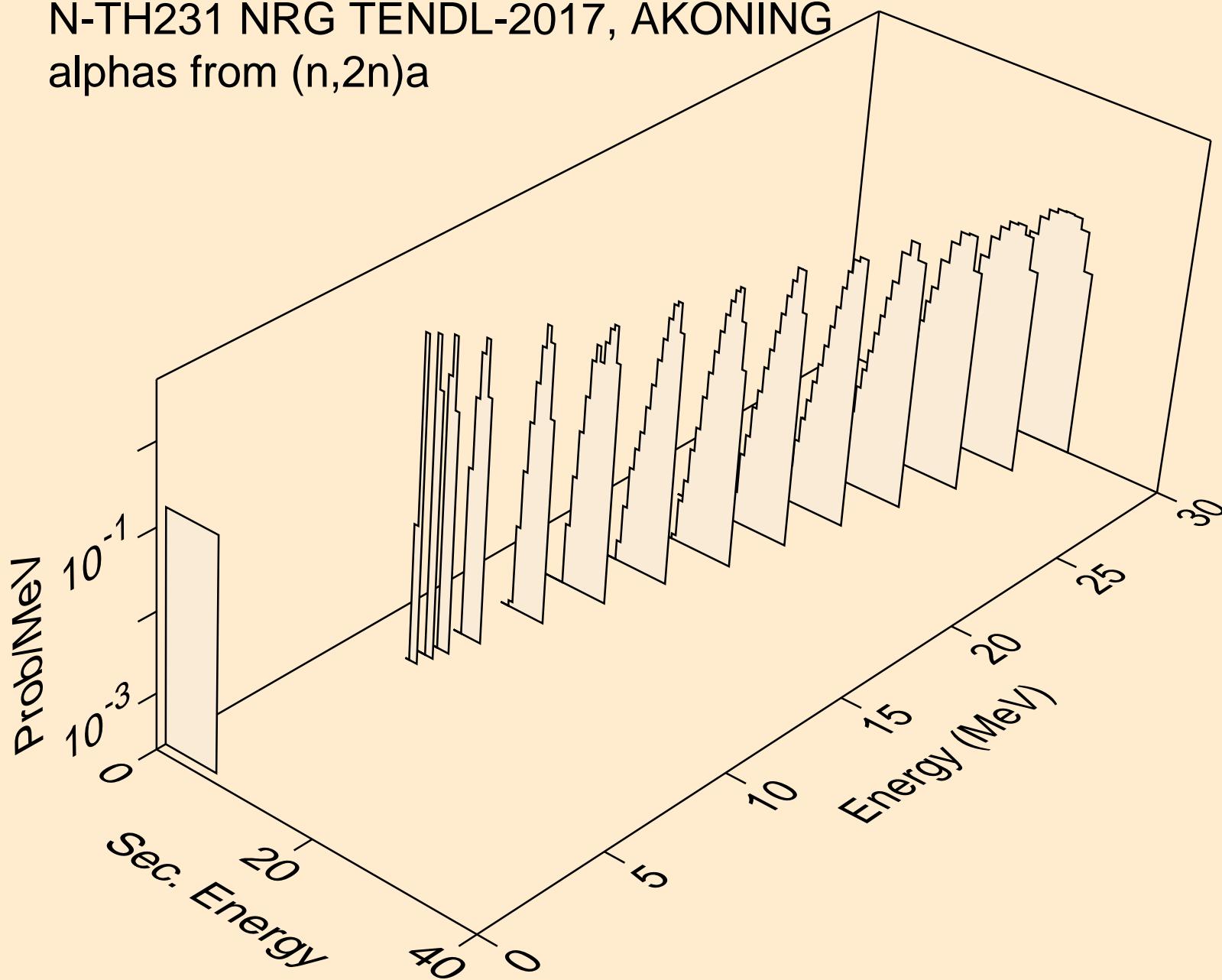
N-TH231 NRG TENDL-2017, AKONING  
alphas from (n,x)



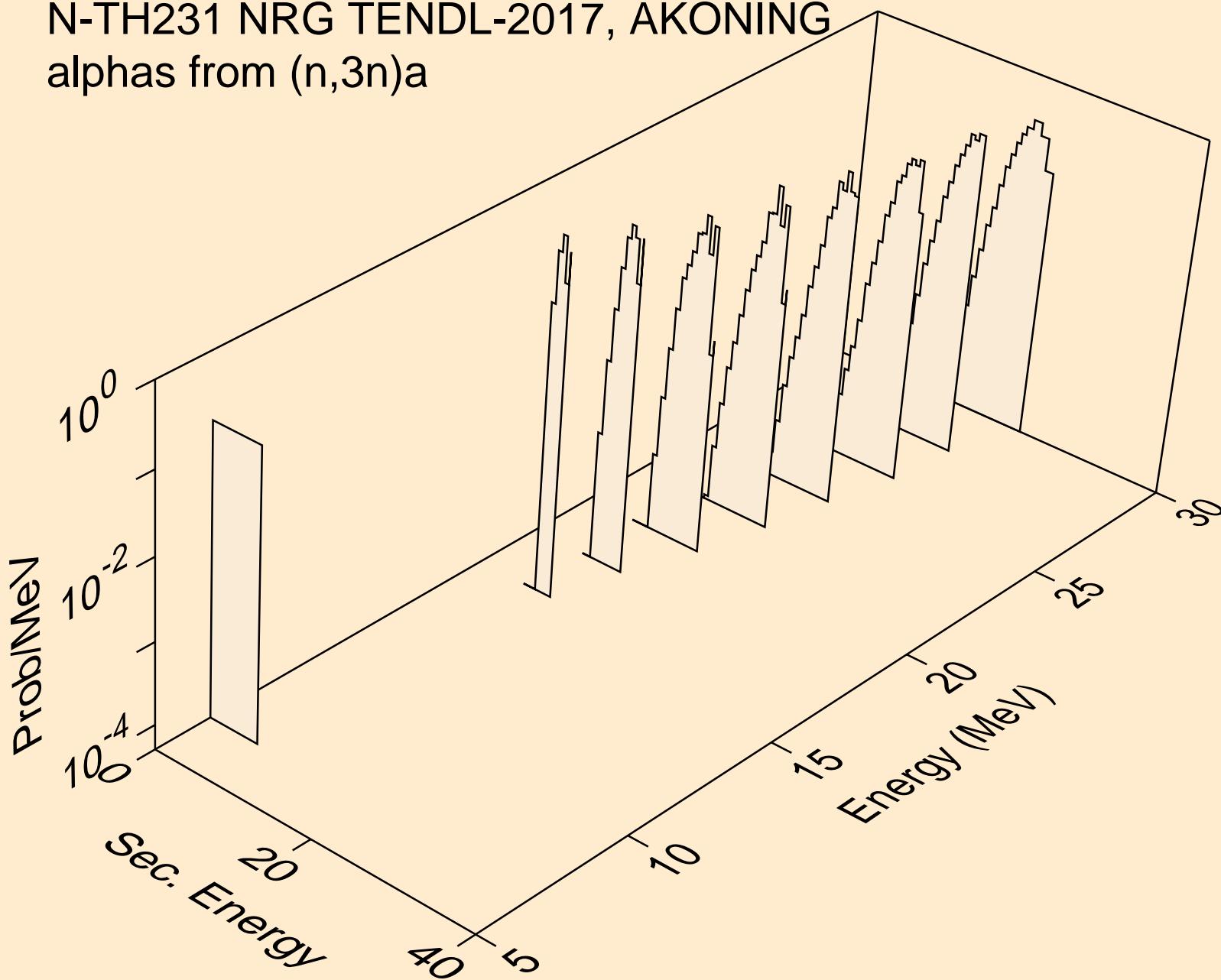
N-TH231 NRG TENDL-2017, AKONING  
alphas from  $(n,n^*)a$



N-TH231 NRG TENDL-2017, AKONING  
alphas from  $(n,2n)a$



N-TH231 NRG TENDL-2017, AKONING  
alphas from ( $n,3n$ )a



N-TH231 NRG TENDL-2017, AKONING  
alphas from (n,a)

