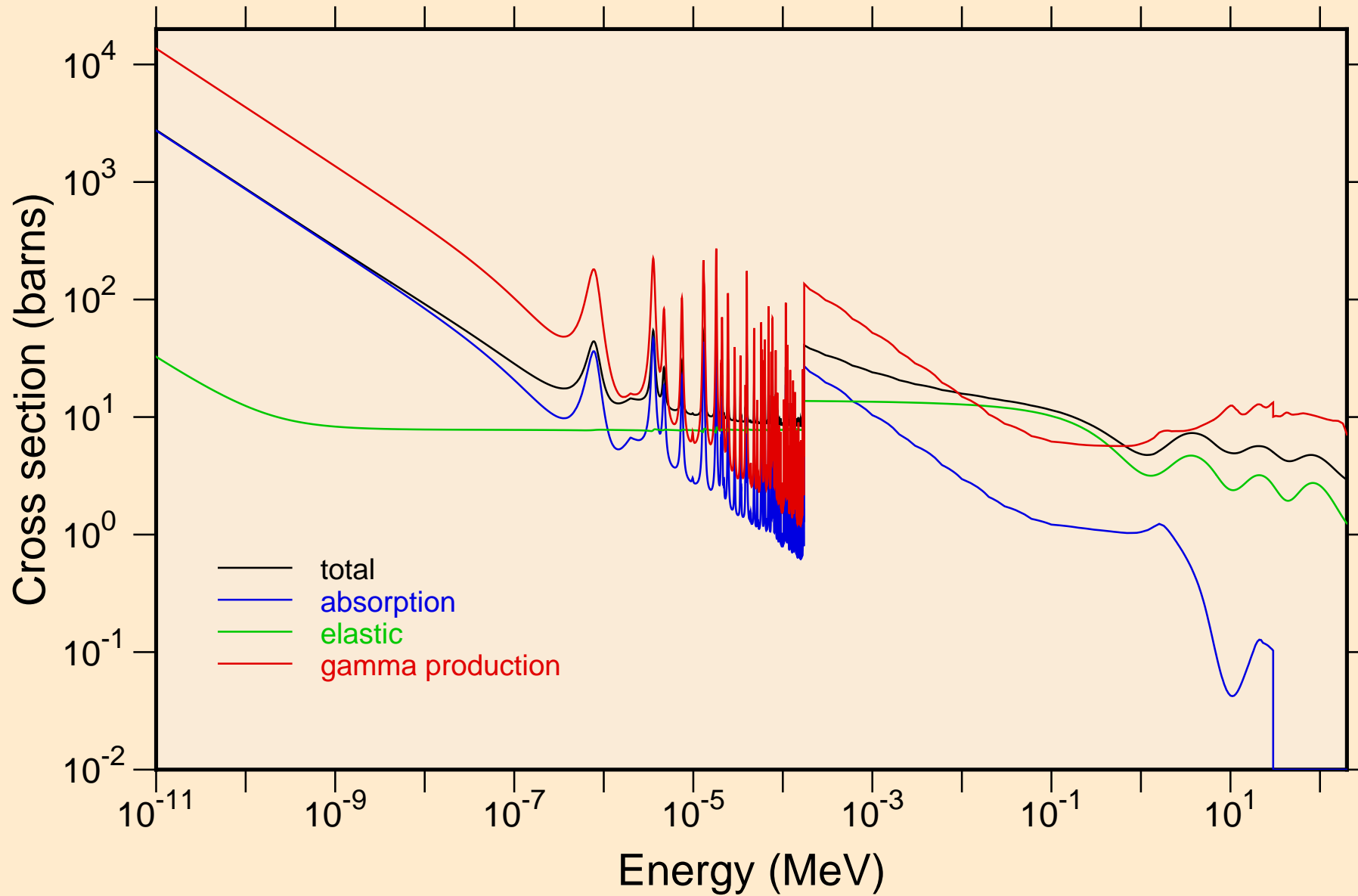
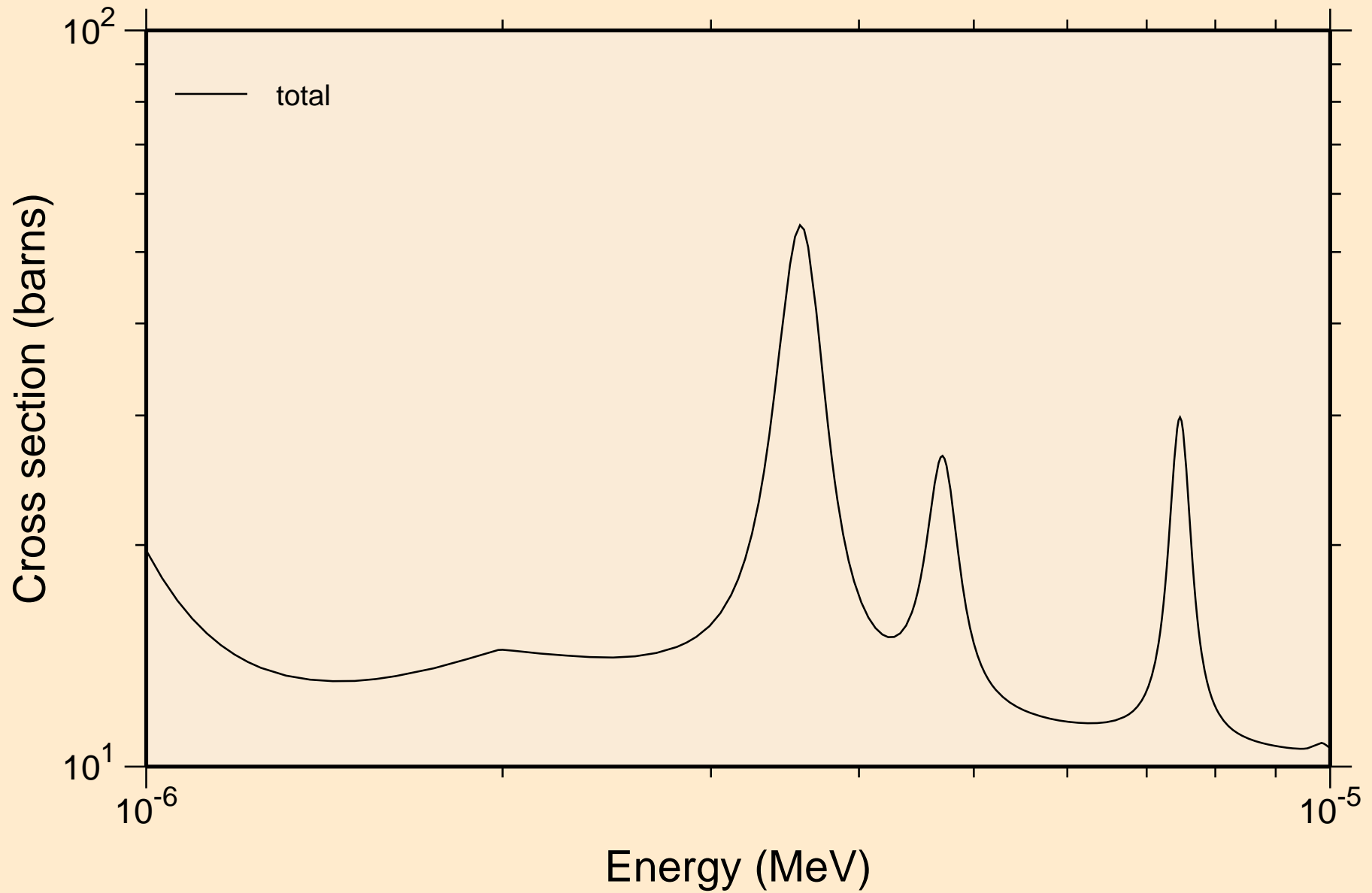


# N-BI199M NRG TENDL-2017, AKONING

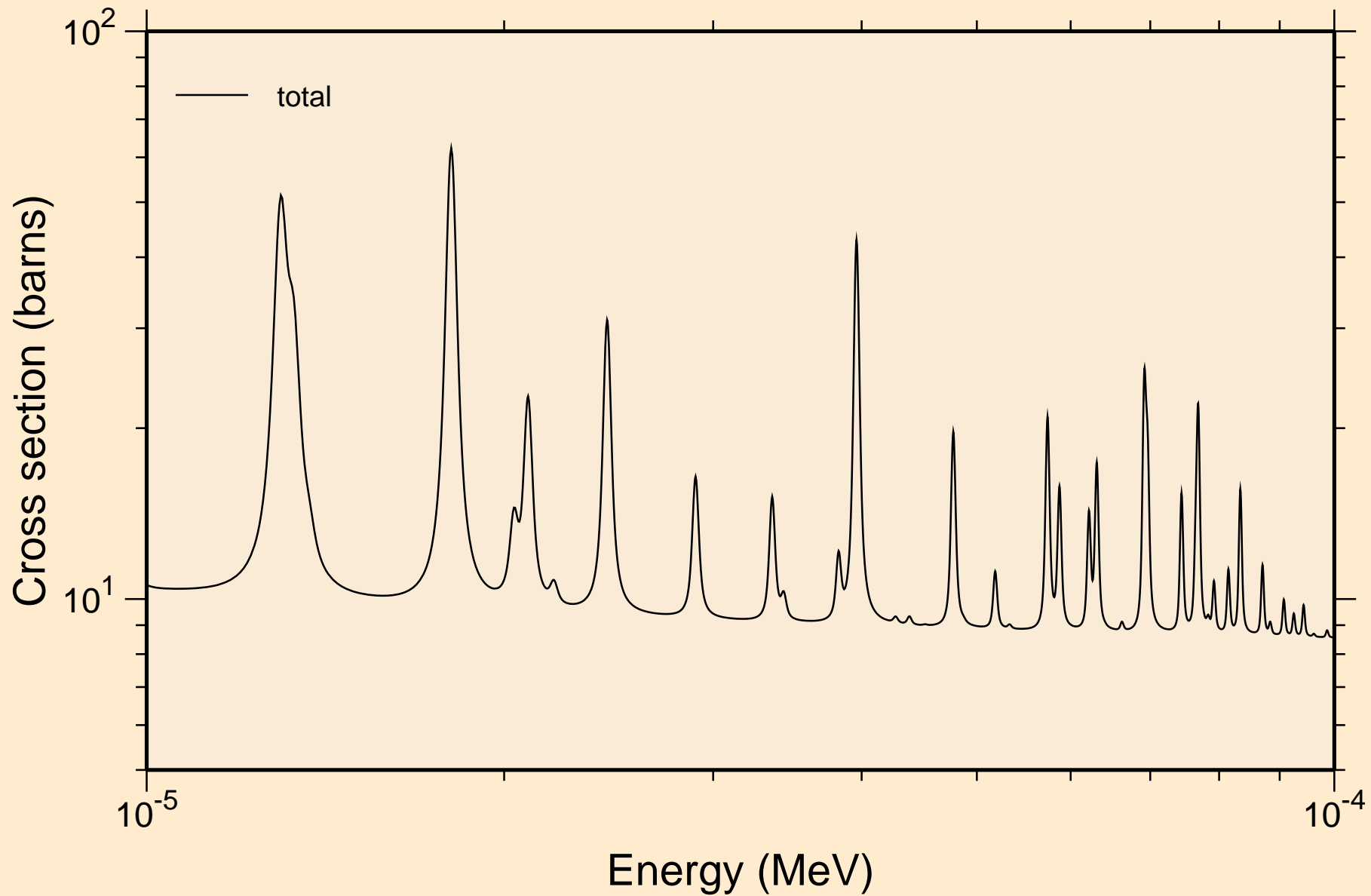
## Principal cross sections



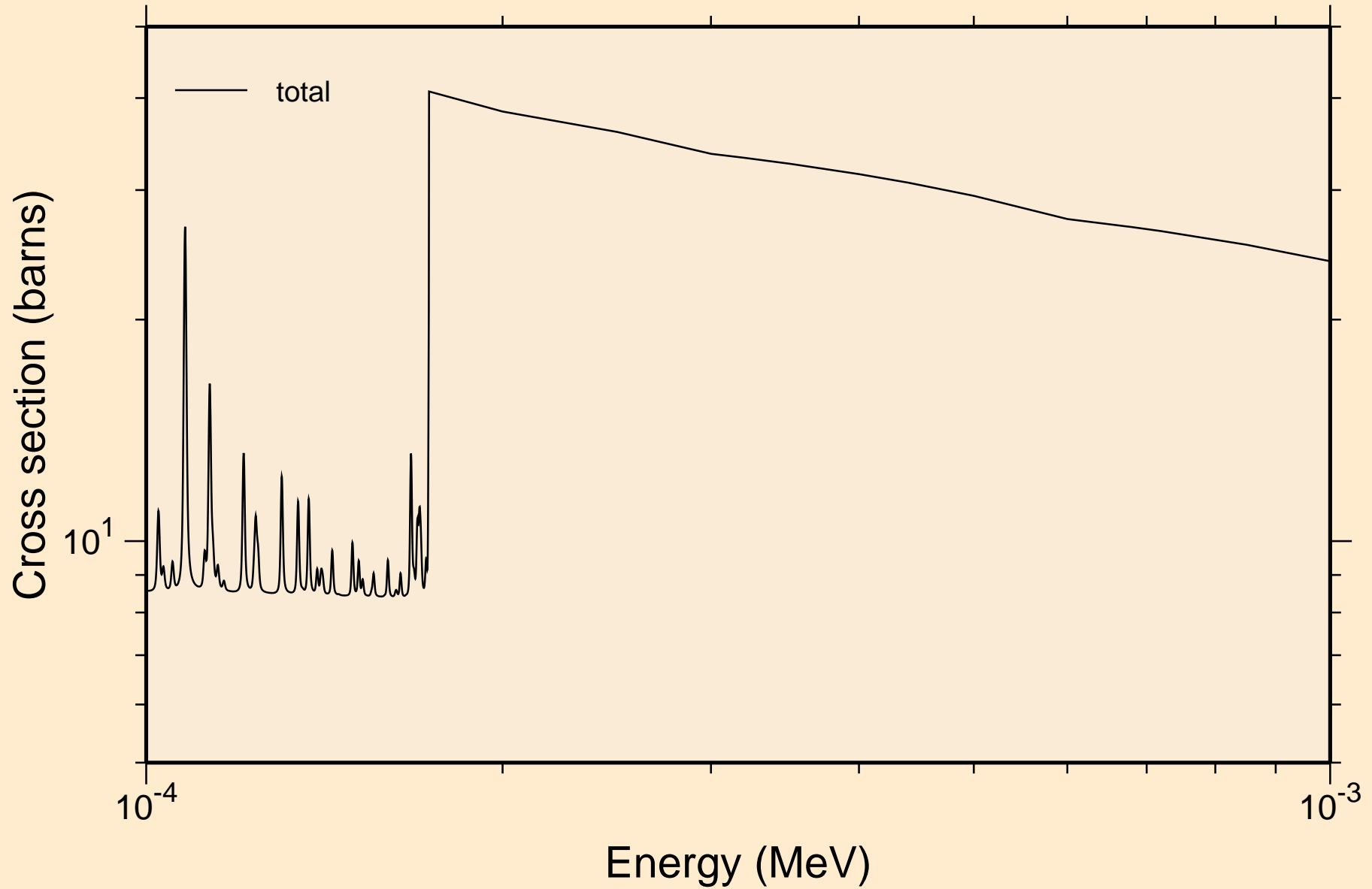
N-BI199M NRG TENDL-2017, AKONING  
resonance total cross section



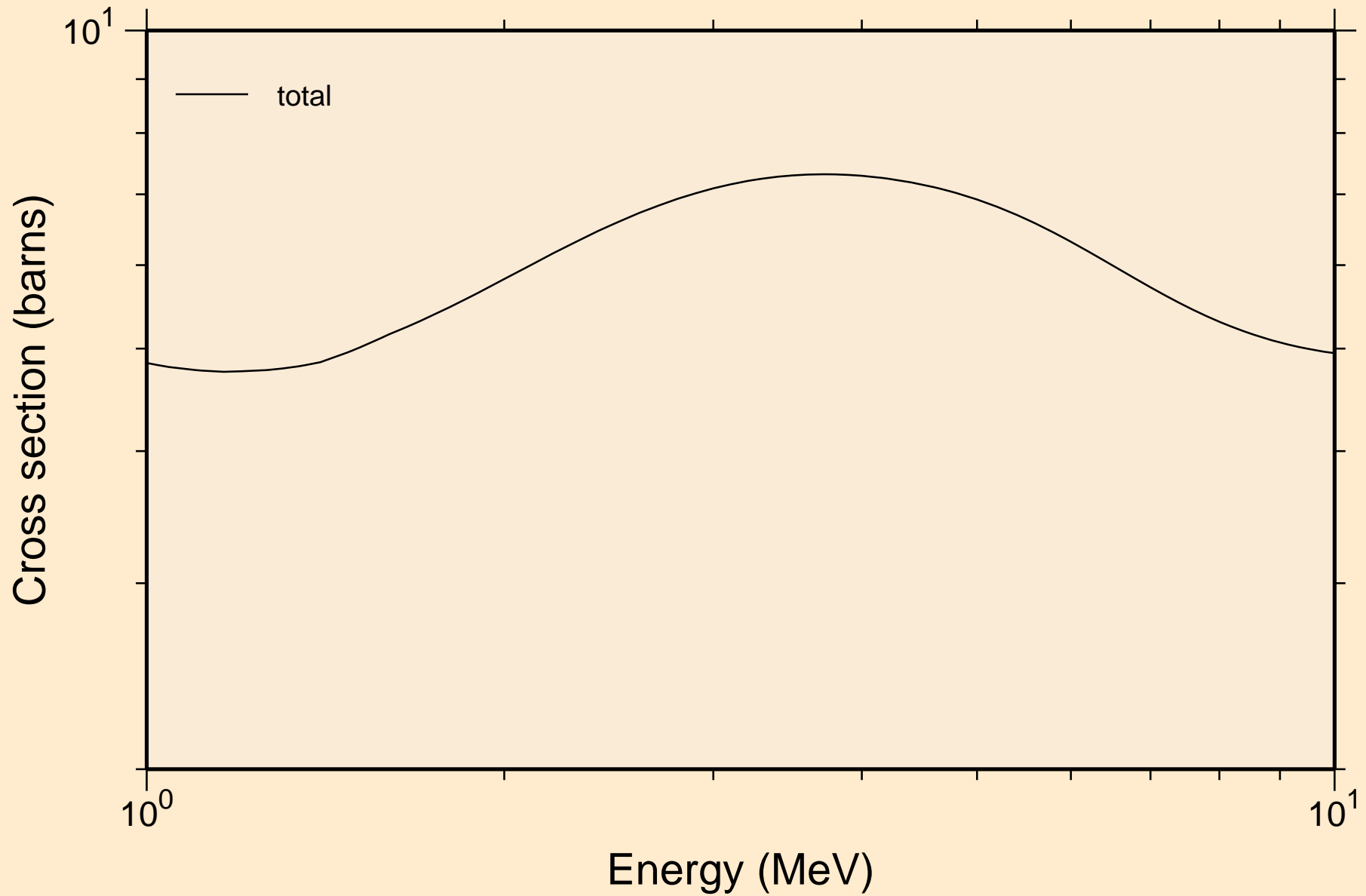
N-BI199M NRG TENDL-2017, AKONING  
resonance total cross section



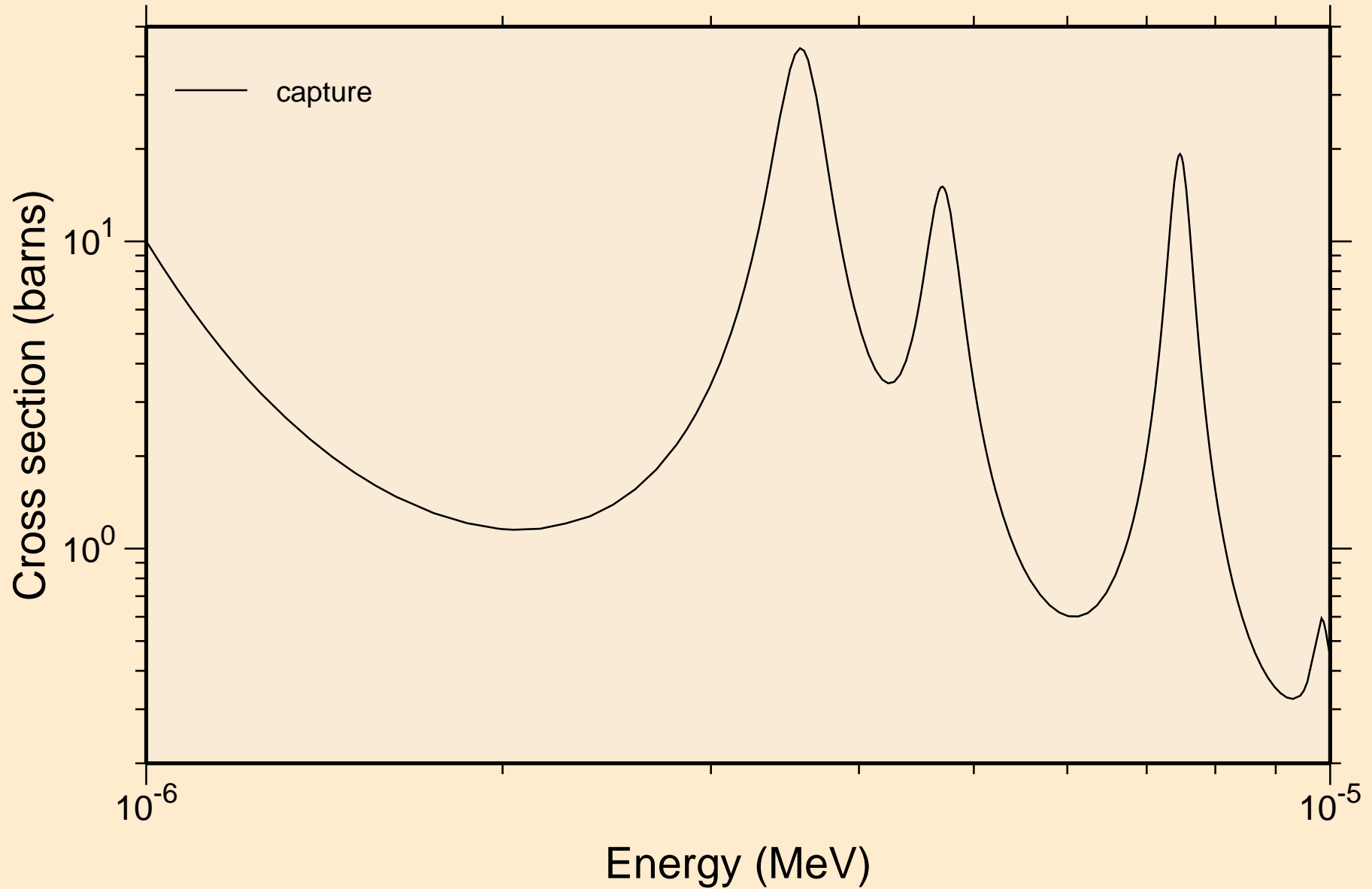
N-BI199M NRG TENDL-2017, AKONING  
resonance total cross section



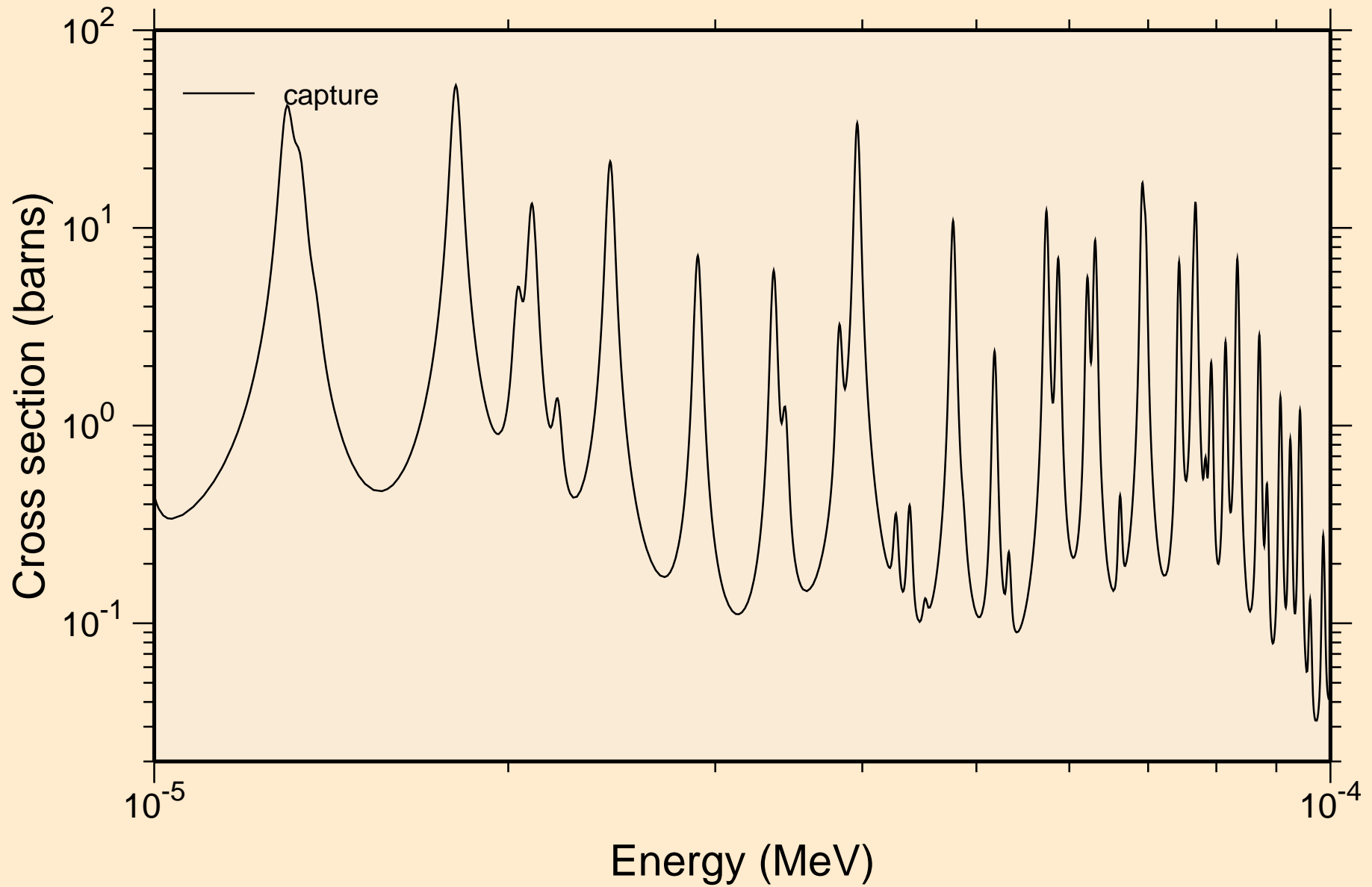
N-BI199M NRG TENDL-2017, AKONING  
resonance total cross section



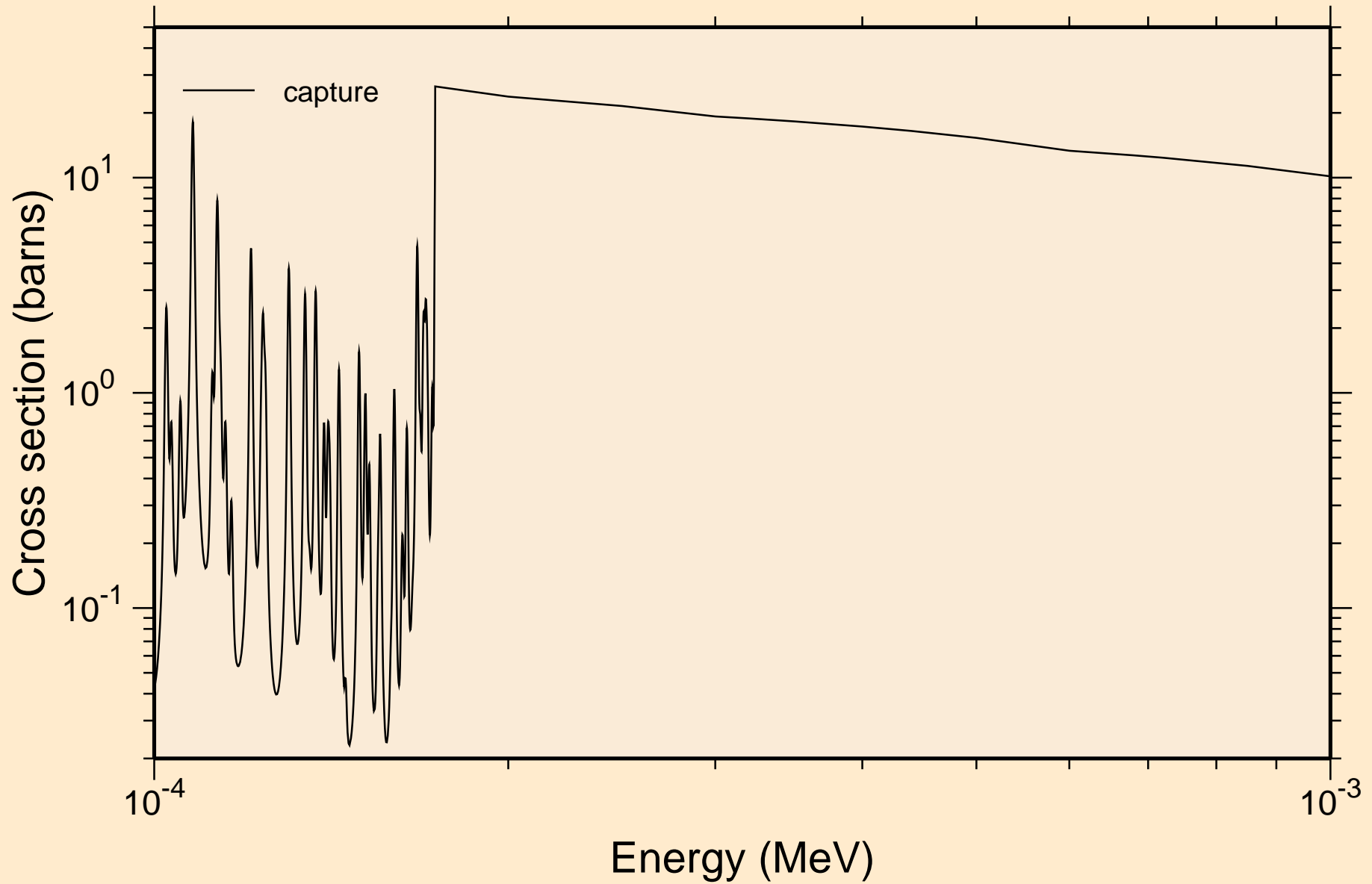
N-BI199M NRG TENDL-2017, AKONING  
resonance absorption cross sections



# N-BI199M NRG TENDL-2017, AKONING resonance absorption cross sections

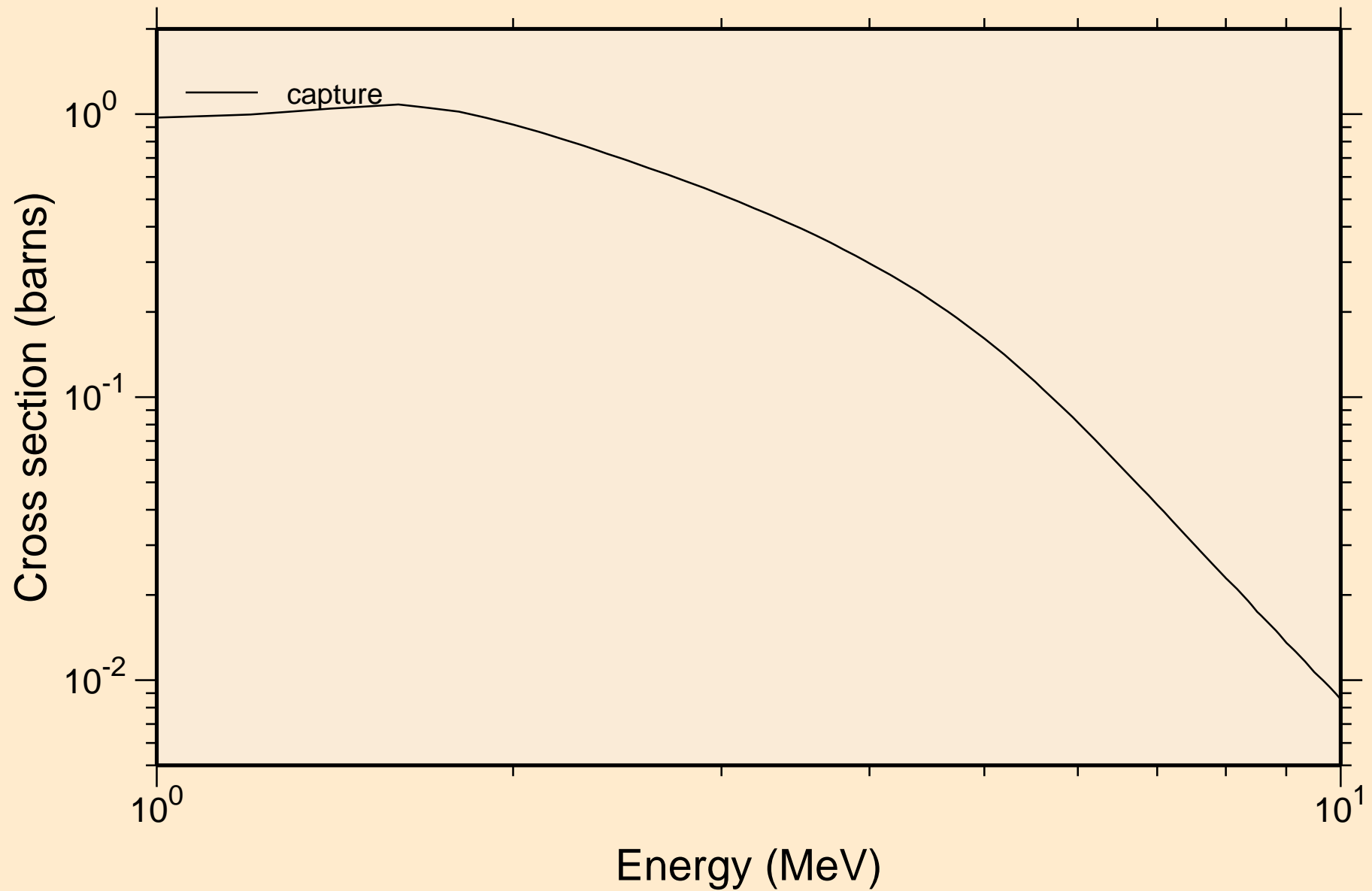


N-BI199M NRG TENDL-2017, AKONING  
resonance absorption cross sections



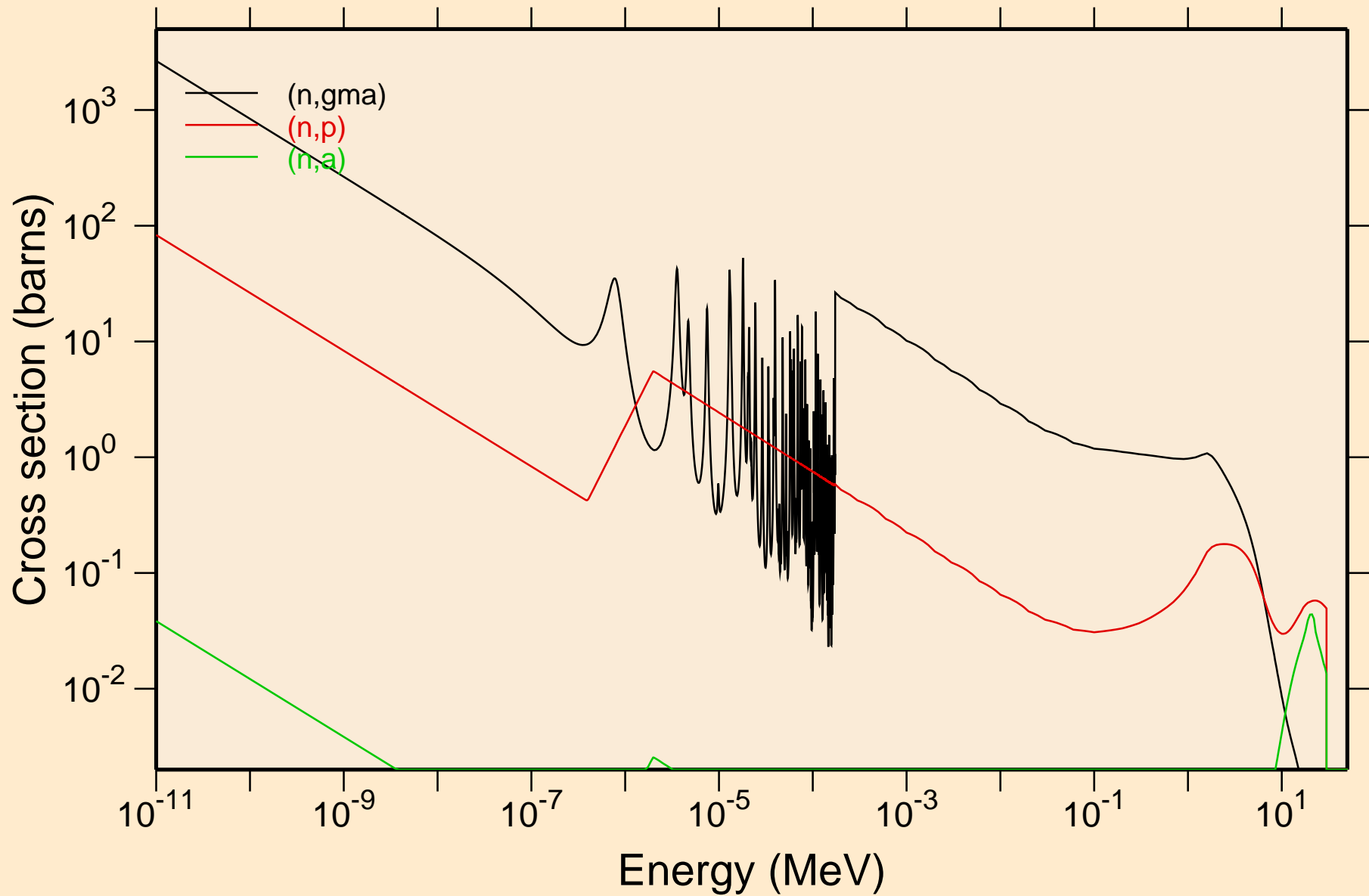


N-BI199M NRG TENDL-2017, AKONING  
resonance absorption cross sections



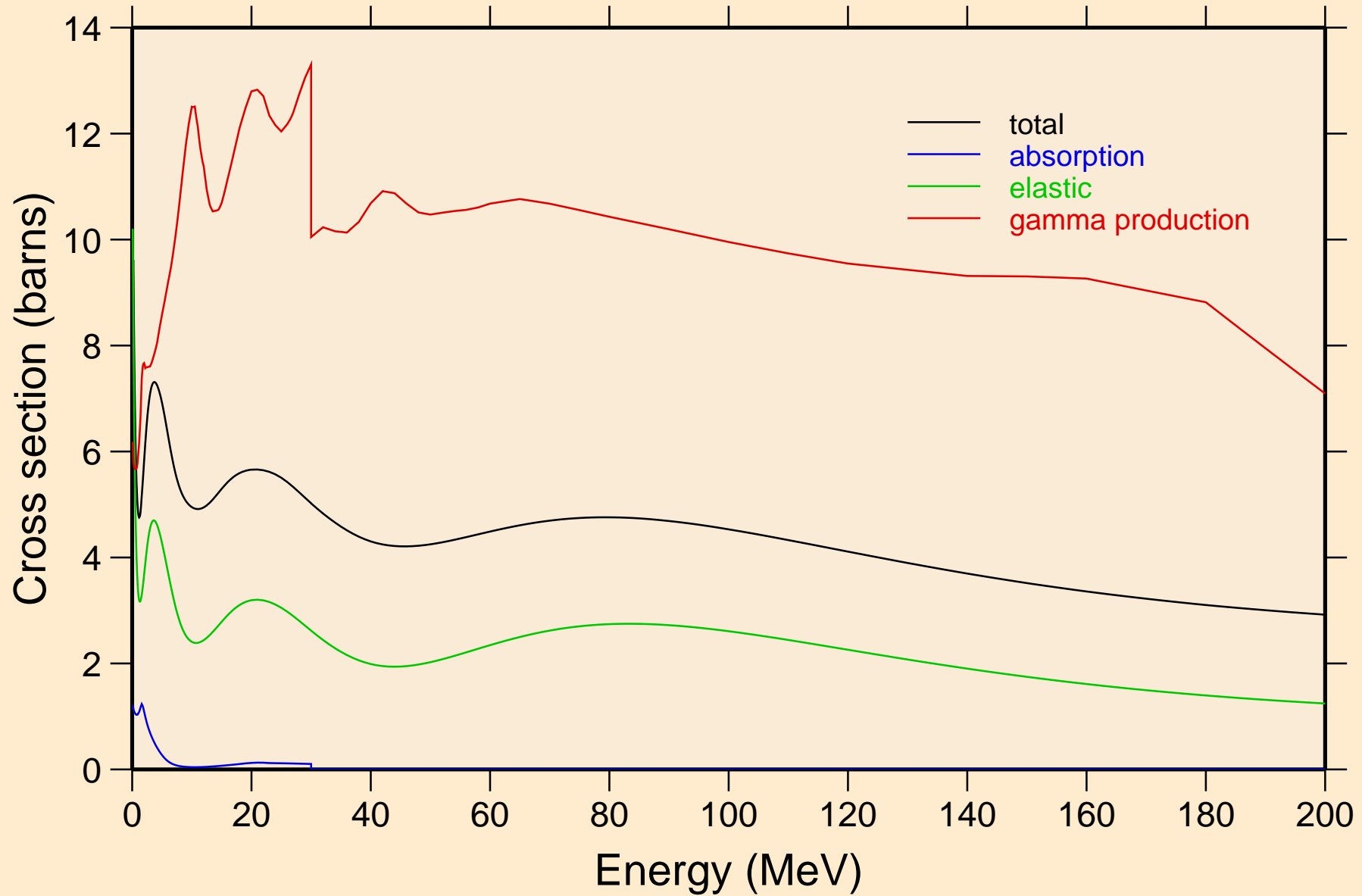
# N-BI199M NRG TENDL-2017, AKONING

## Non-threshold reactions



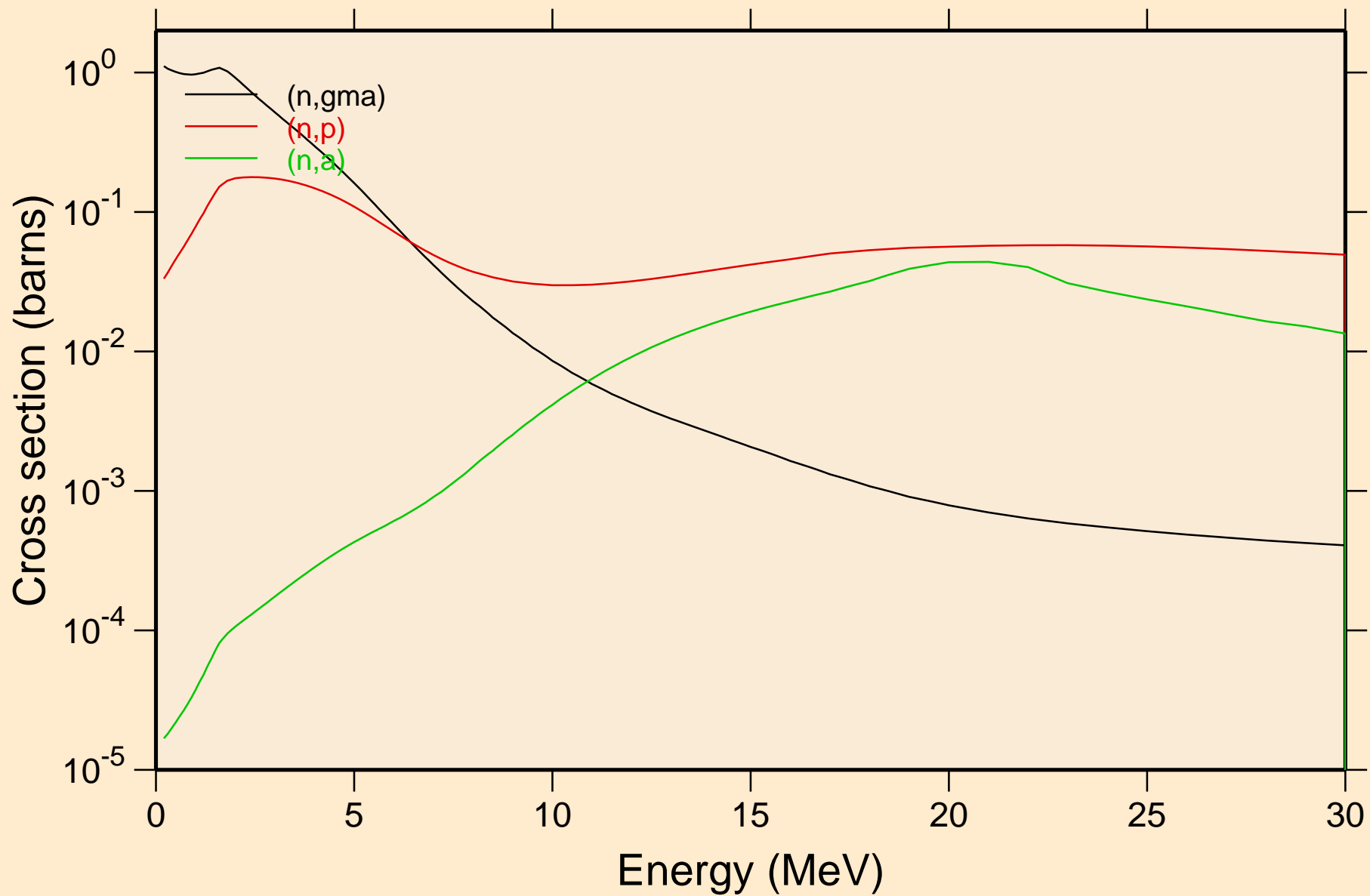
# N-BI199M NRG TENDL-2017, AKONING

## Principal cross sections



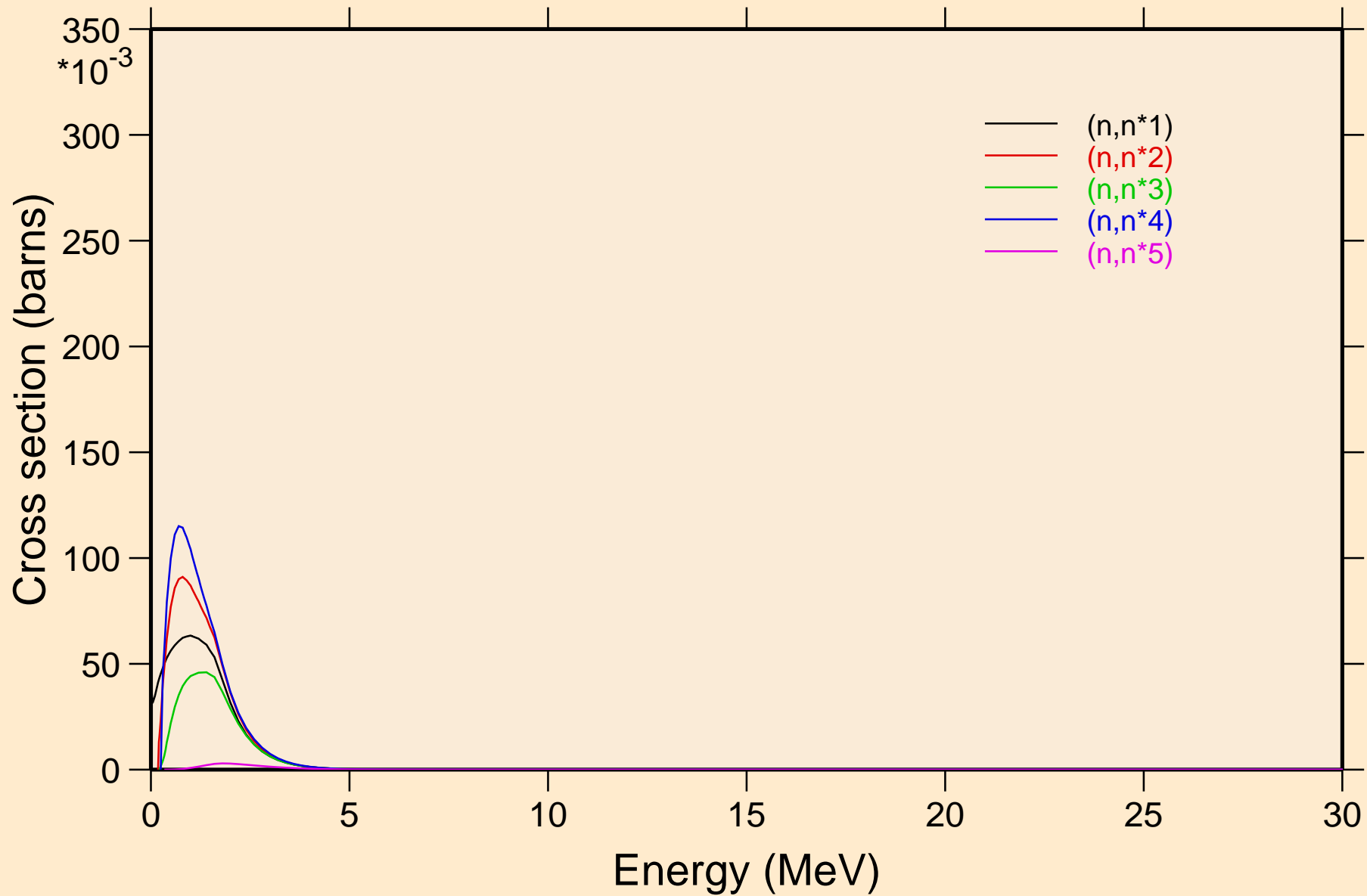
# N-BI199M NRG TENDL-2017, AKONING

## Non-threshold reactions



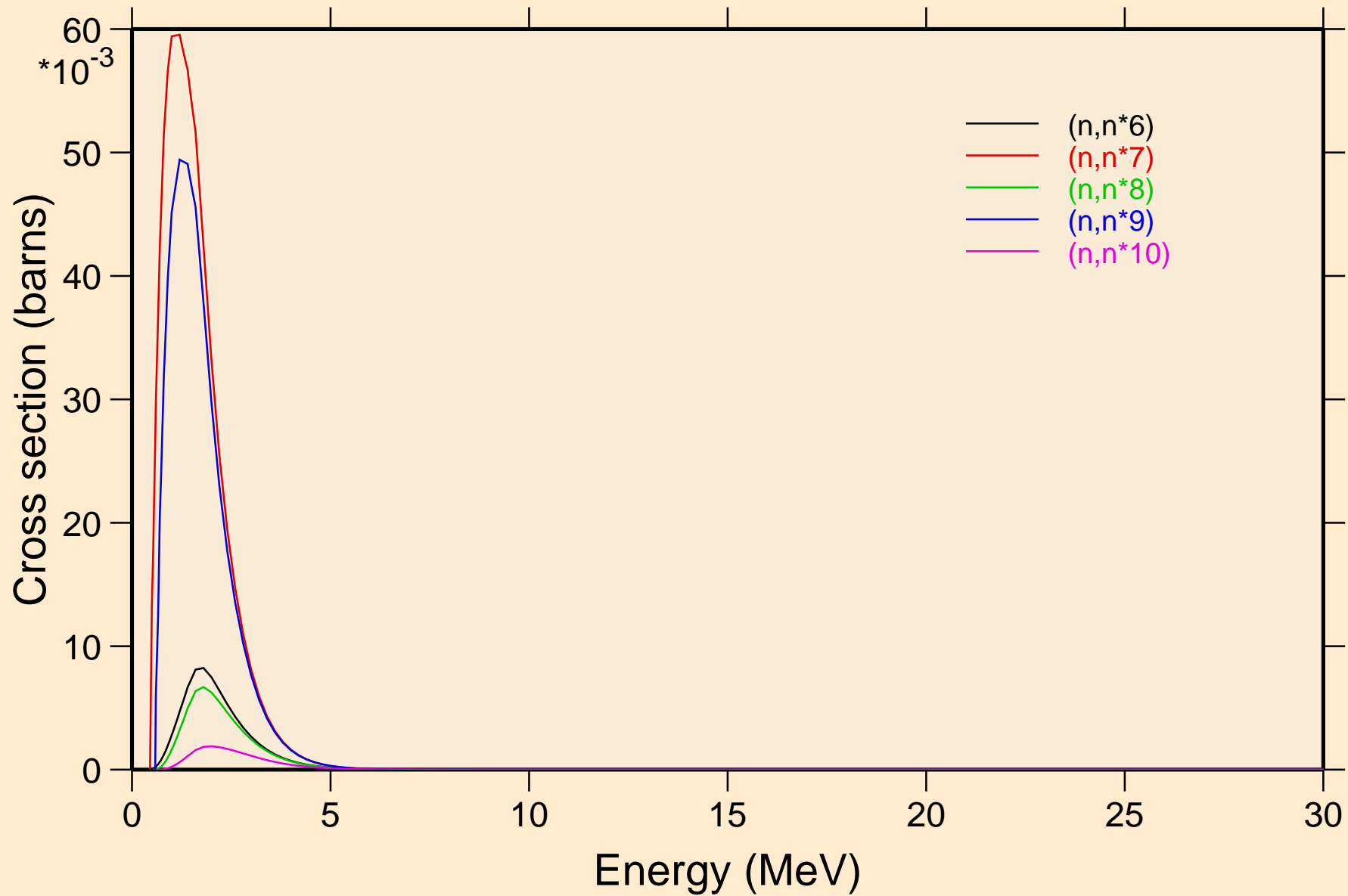
# N-BI199M NRG TENDL-2017, AKONING

## Inelastic levels



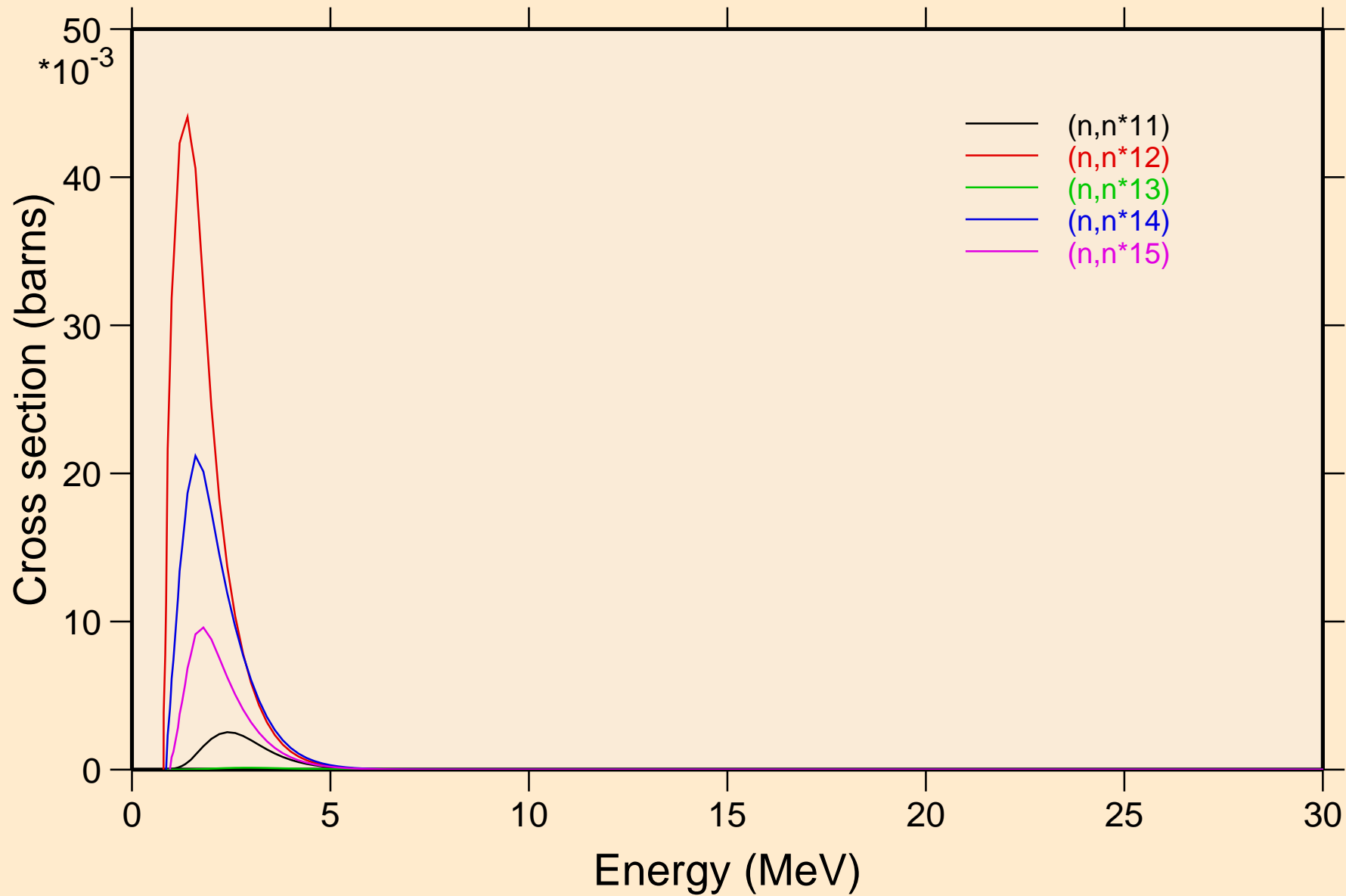
# N-BI199M NRG TENDL-2017, AKONING

## Inelastic levels



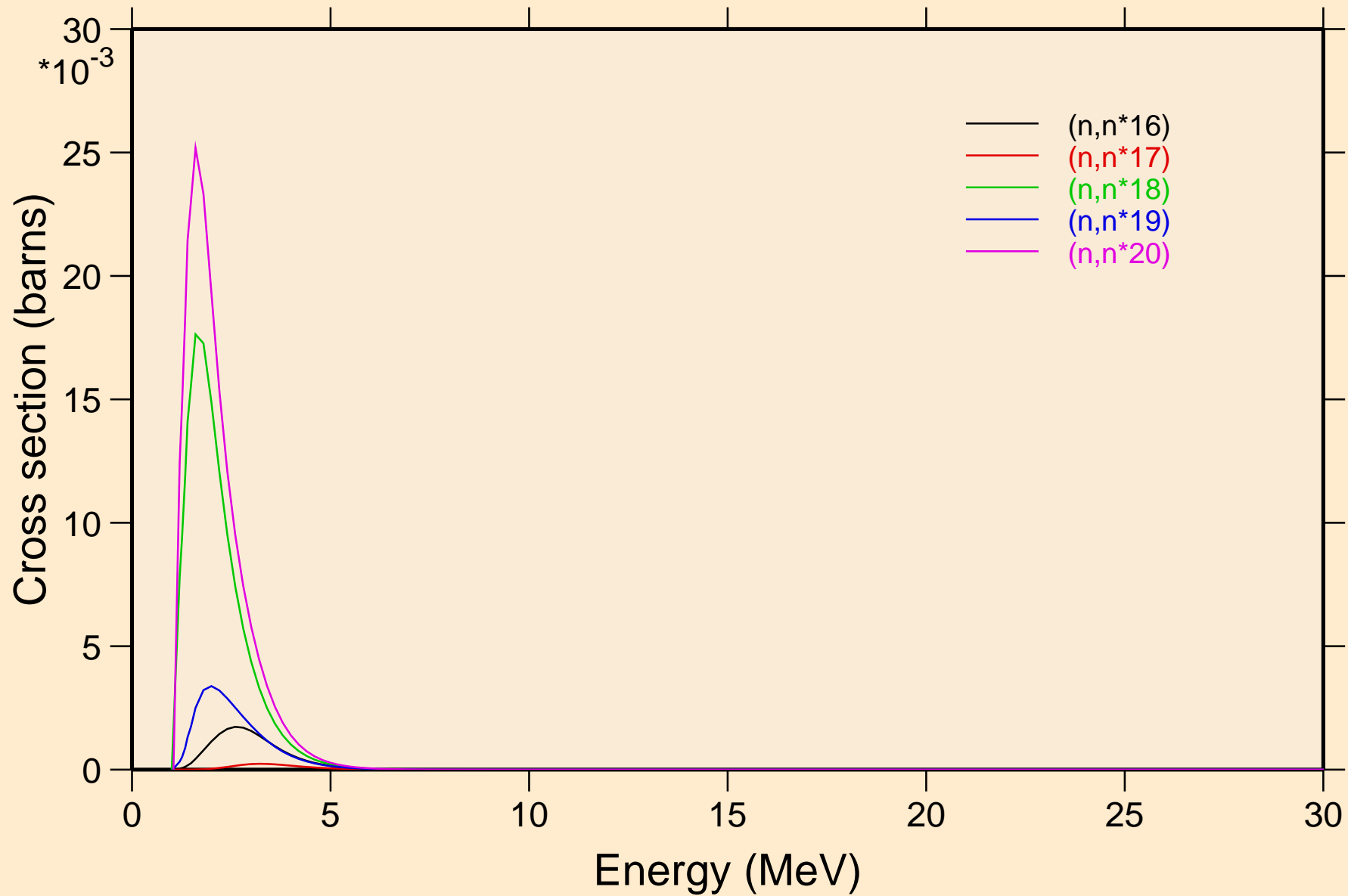
# N-BI199M NRG TENDL-2017, AKONING

## Inelastic levels



# N-BI199M NRG TENDL-2017, AKONING

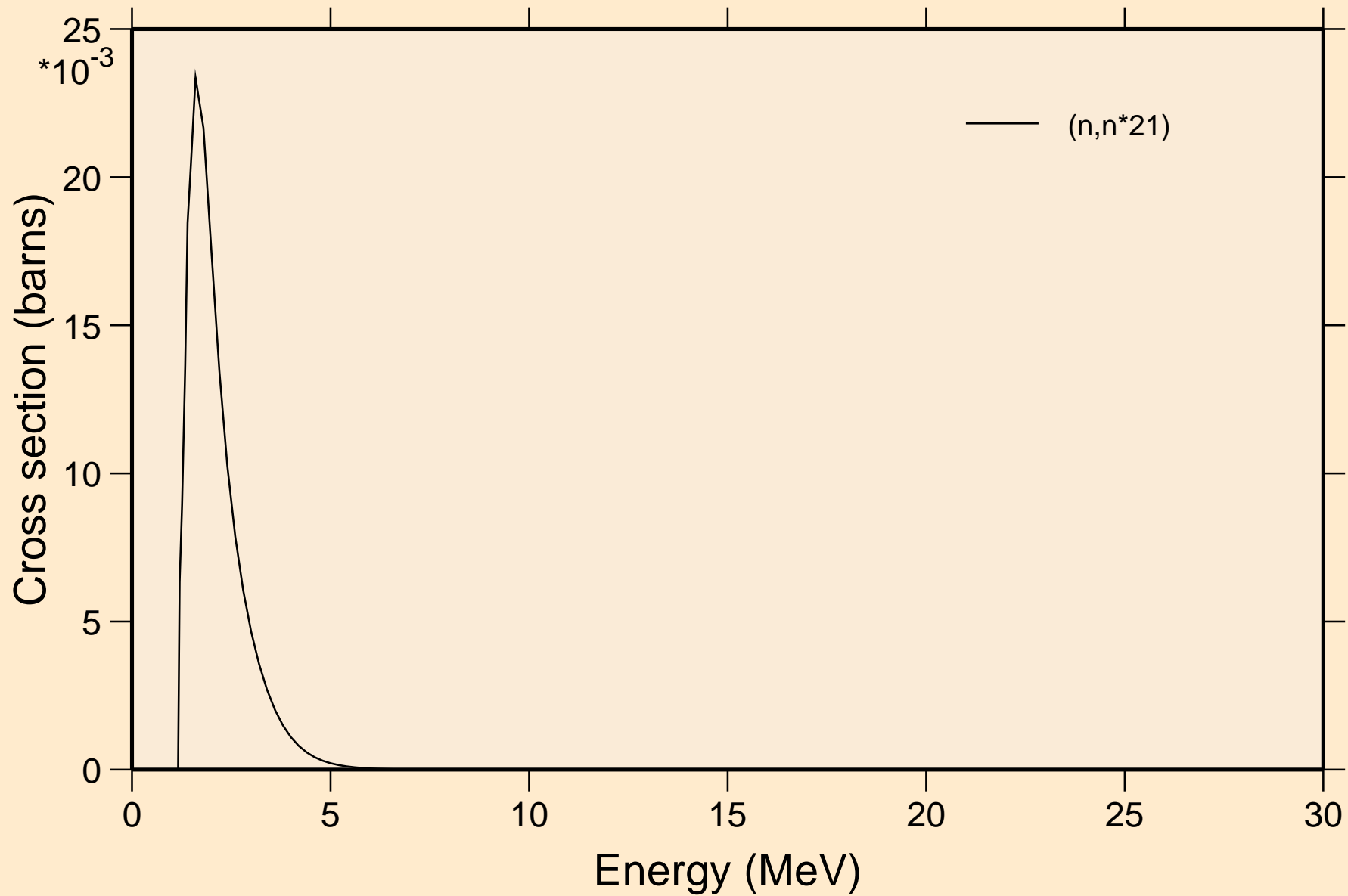
## Inelastic levels





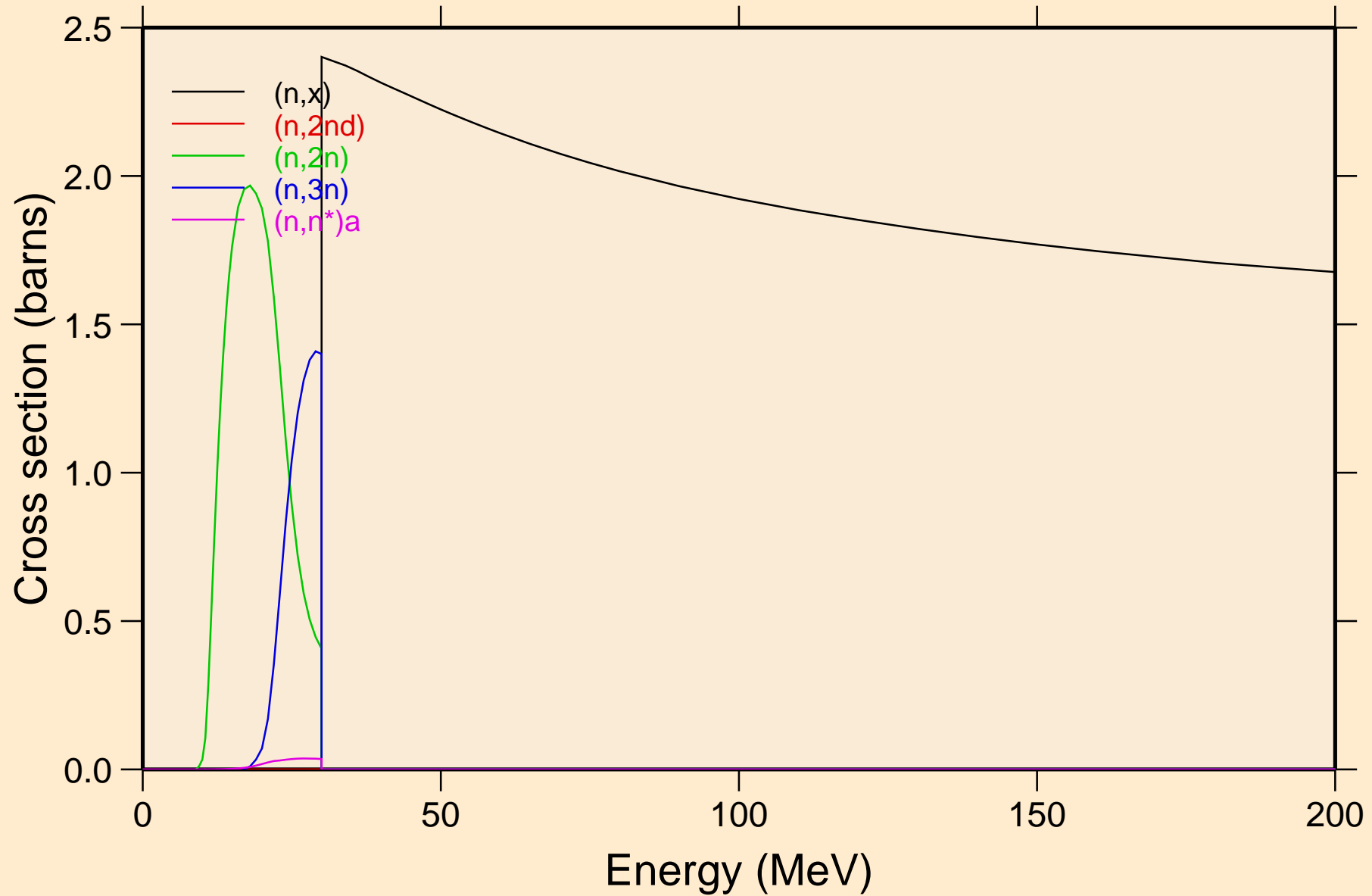
# N-BI199M NRG TENDL-2017, AKONING

## Inelastic levels



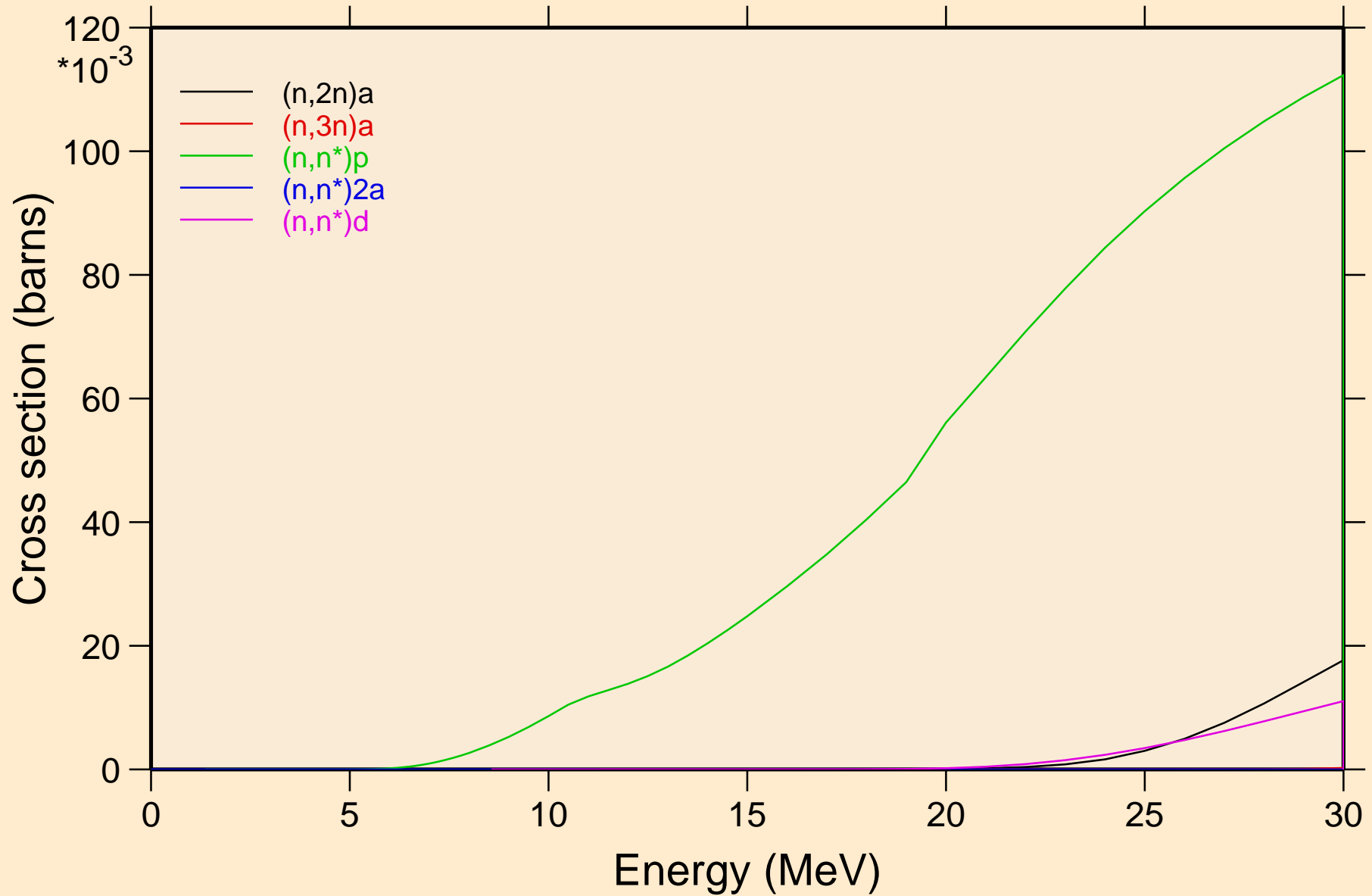
# N-BI199M NRG TENDL-2017, AKONING

## Threshold reactions



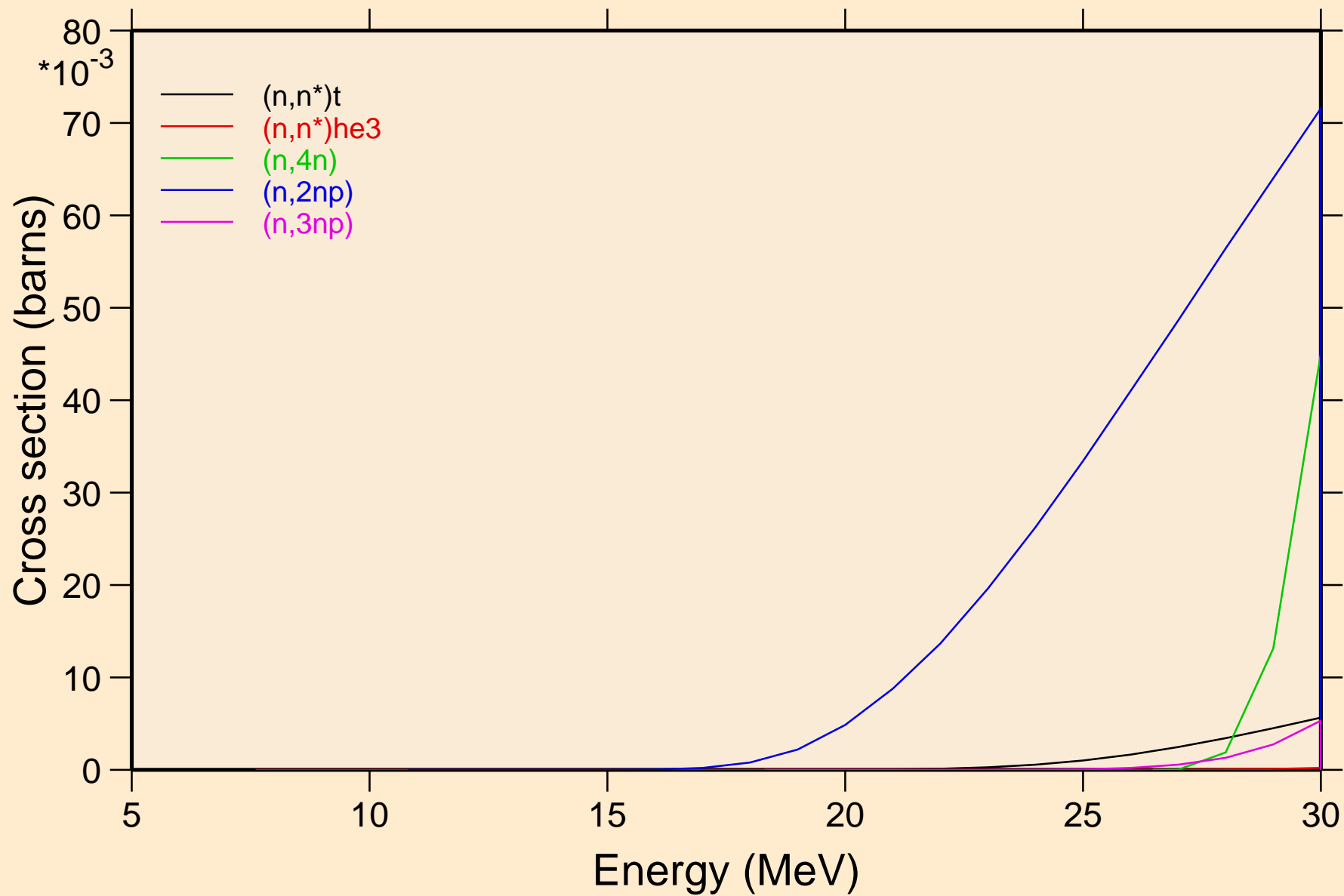
# N-BI199M NRG TENDL-2017, AKONING

## Threshold reactions



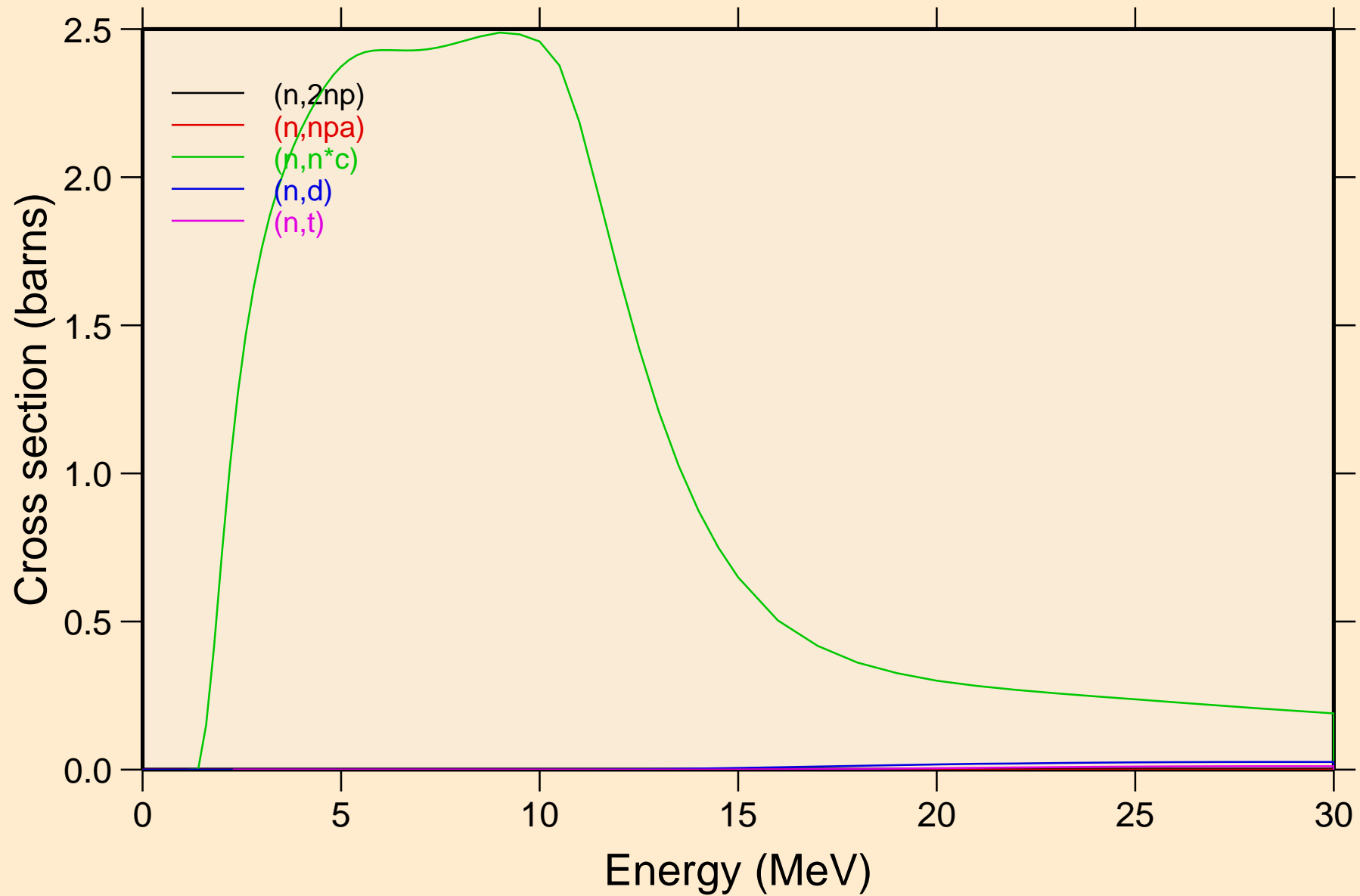
# N-BI199M NRG TENDL-2017, AKONING

## Threshold reactions



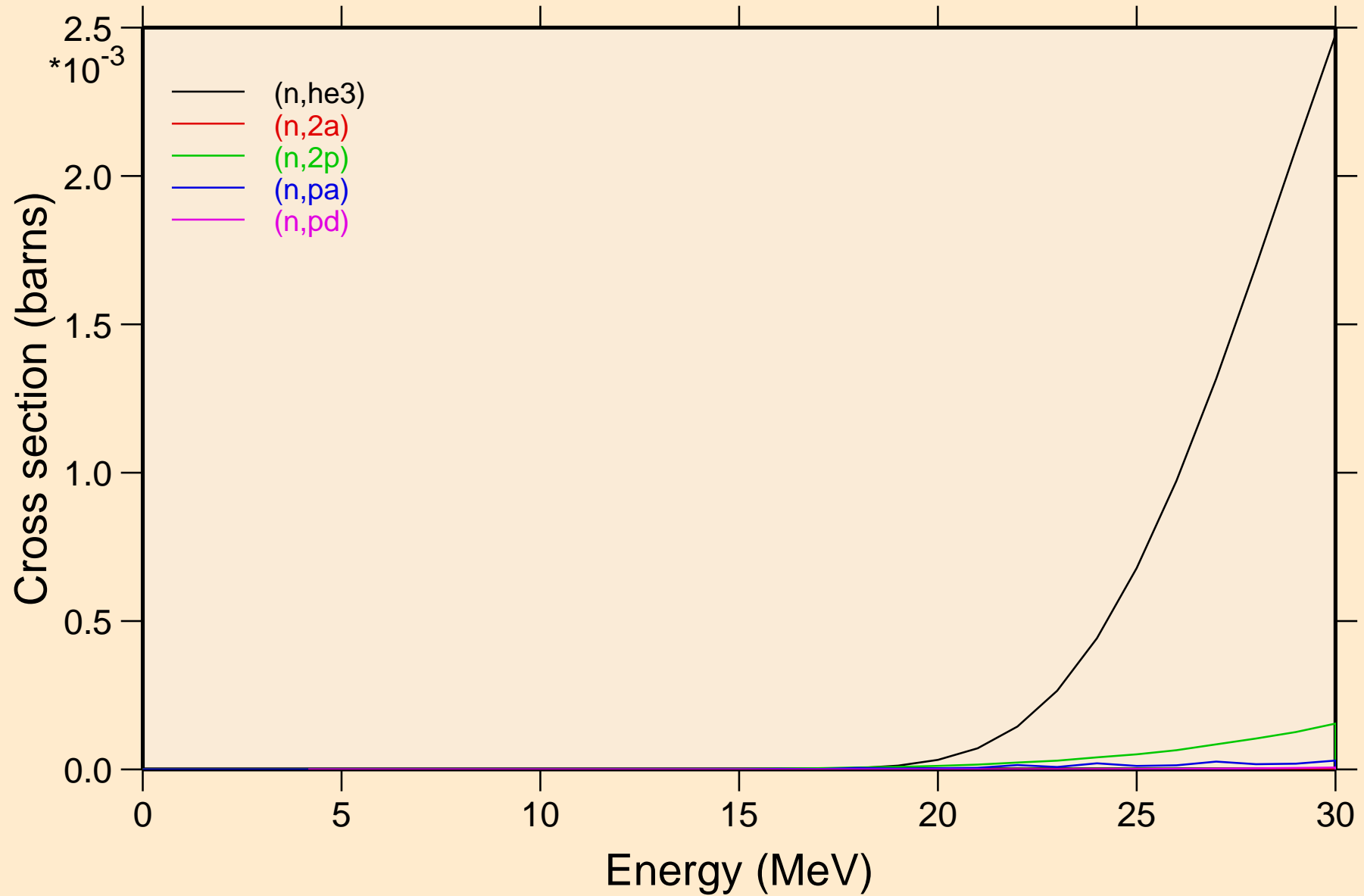
# N-BI199M NRG TENDL-2017, AKONING

## Threshold reactions



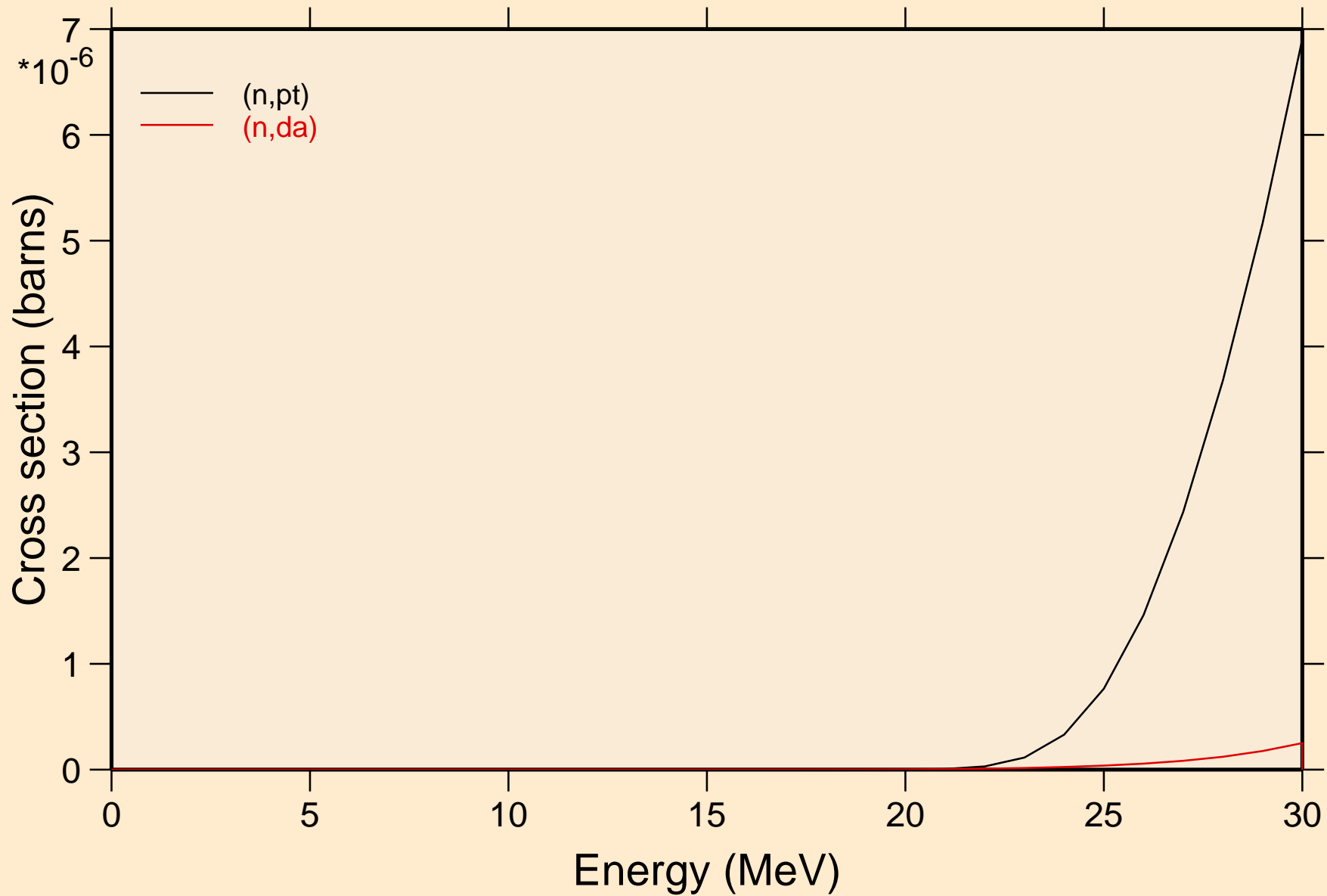
# N-BI199M NRG TENDL-2017, AKONING

## Threshold reactions

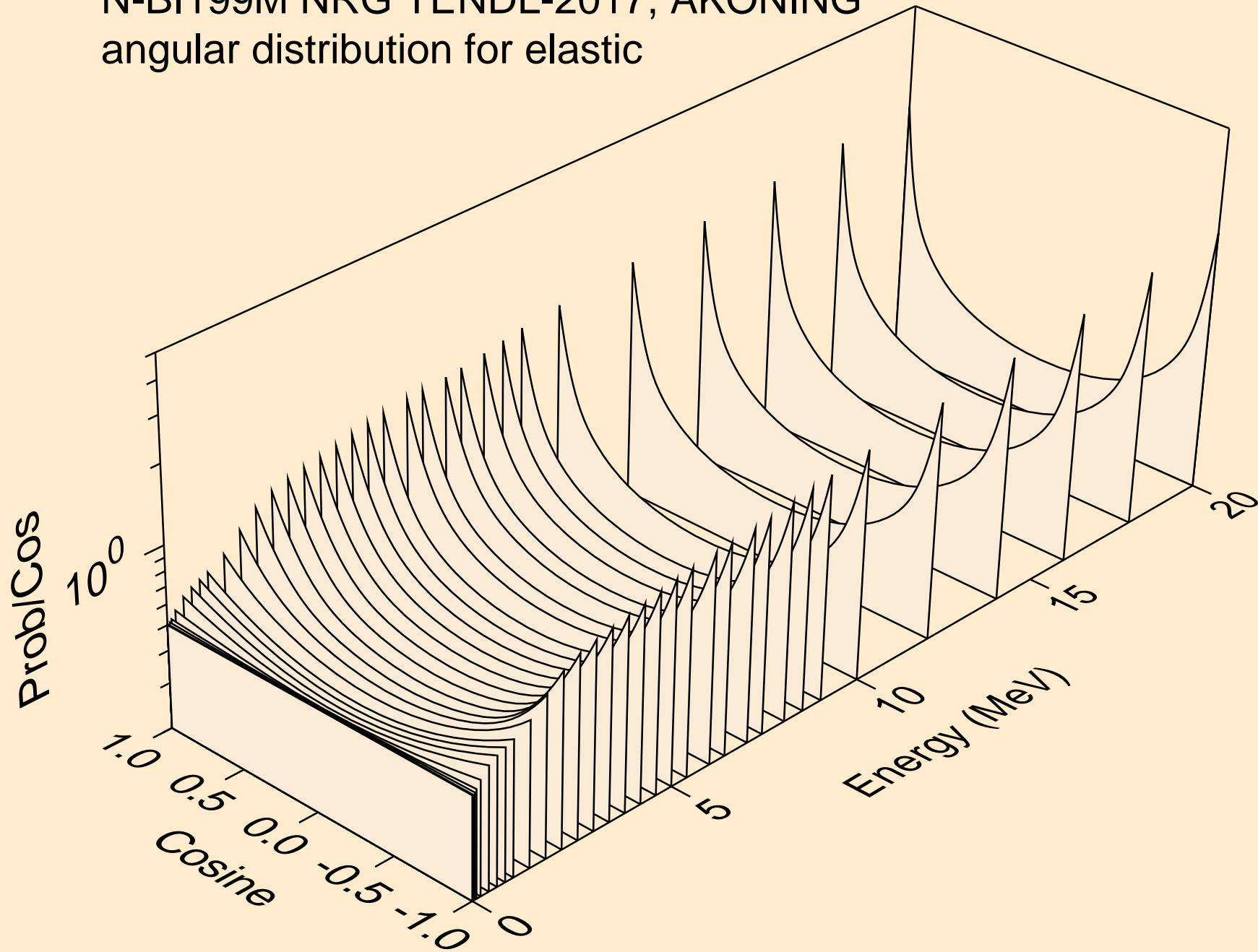


# N-BI199M NRG TENDL-2017, AKONING

## Threshold reactions

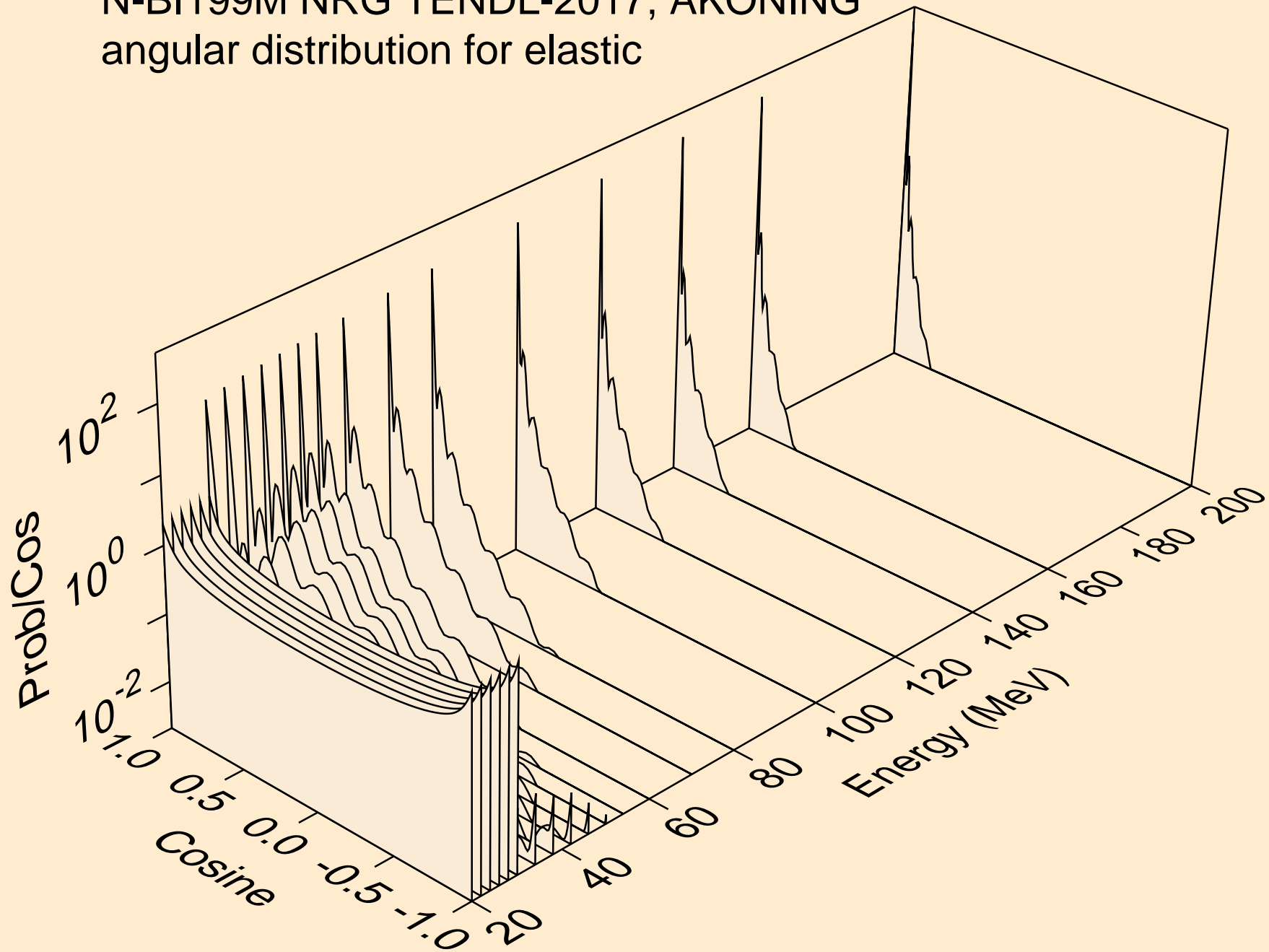


N-BI199M NRG TENDL-2017, AKONING  
angular distribution for elastic

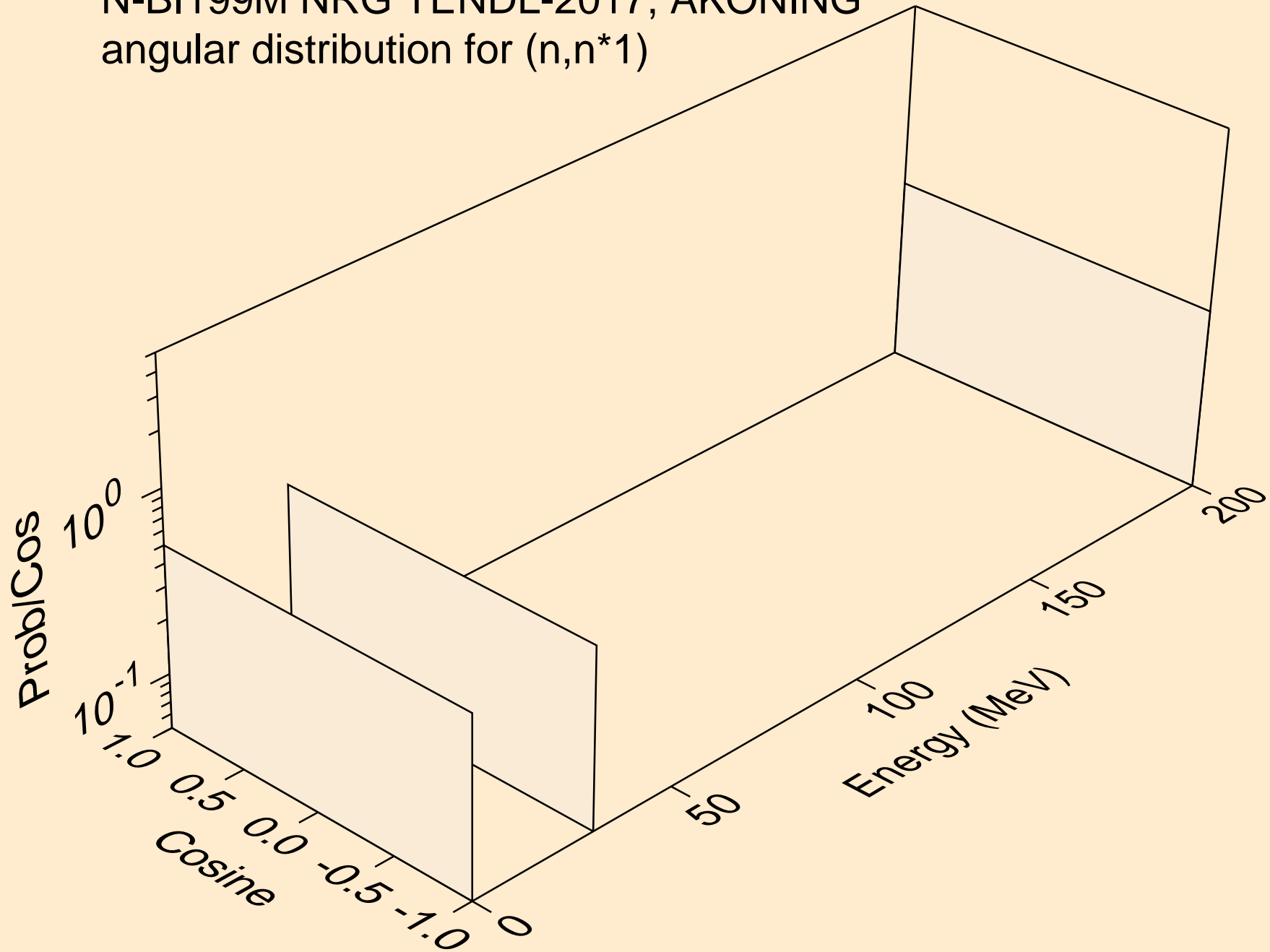




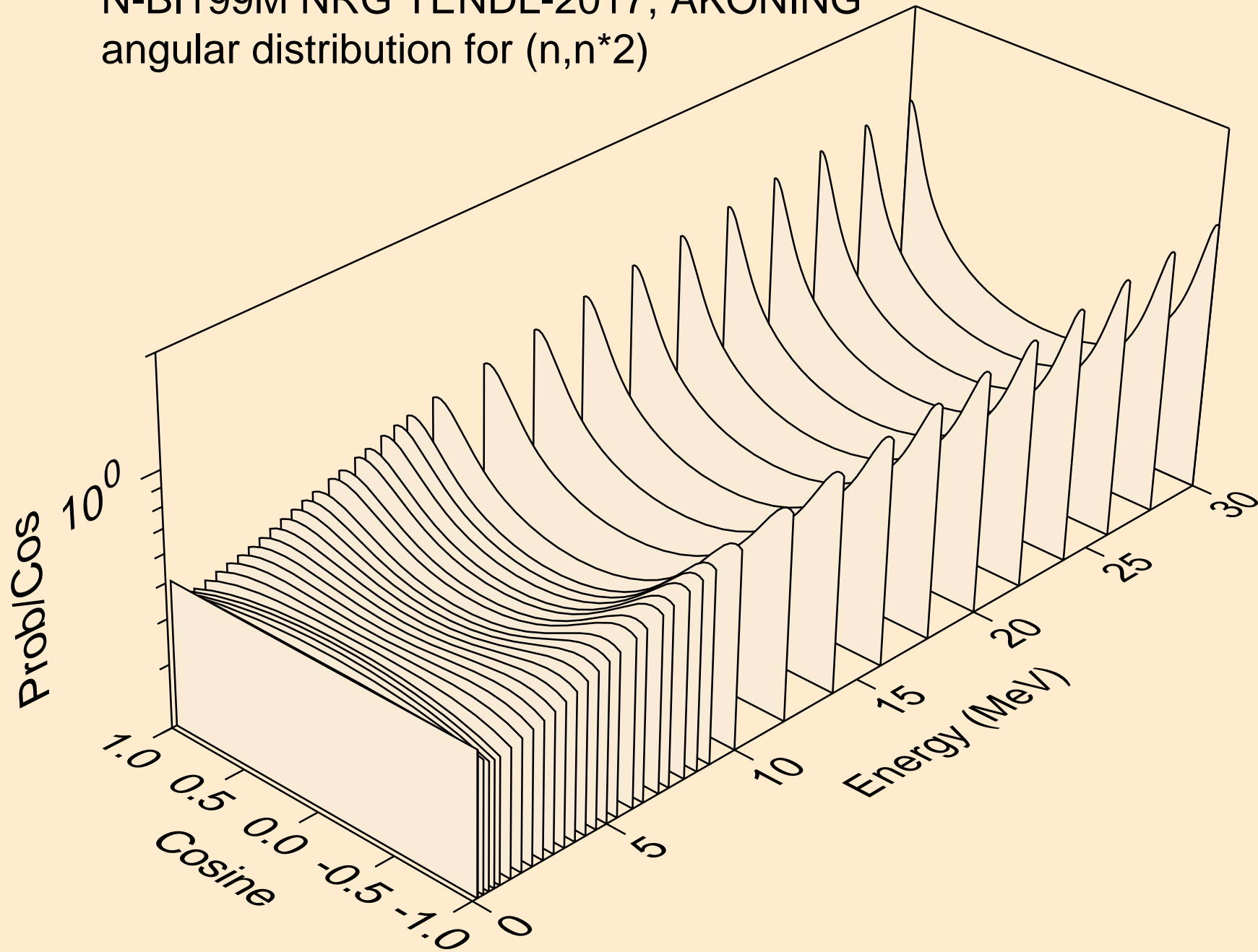
N-BI199M NRG TENDL-2017, AKONING  
angular distribution for elastic



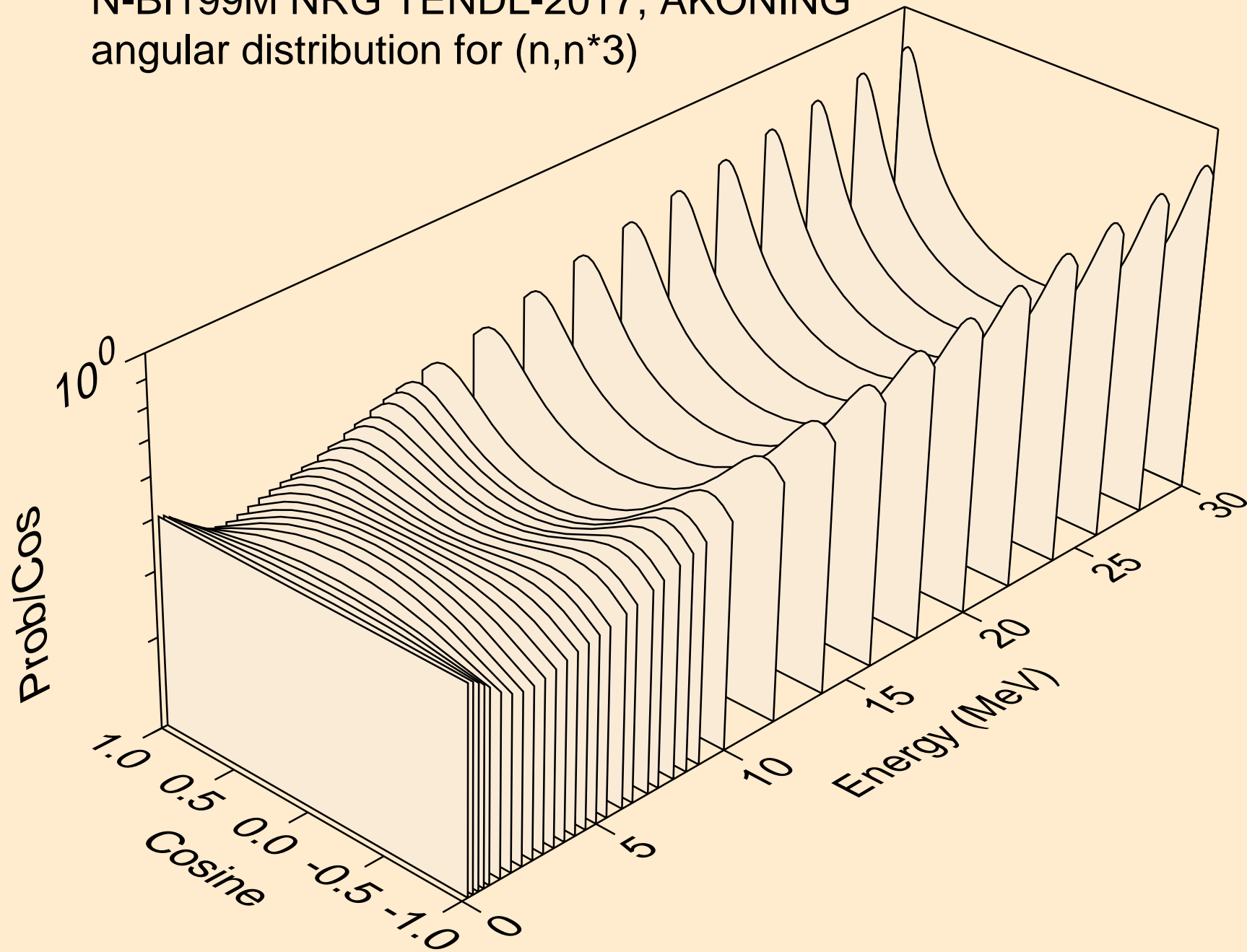
N-BI199M NRG TENDL-2017, AKONING  
angular distribution for (n,n\*1)



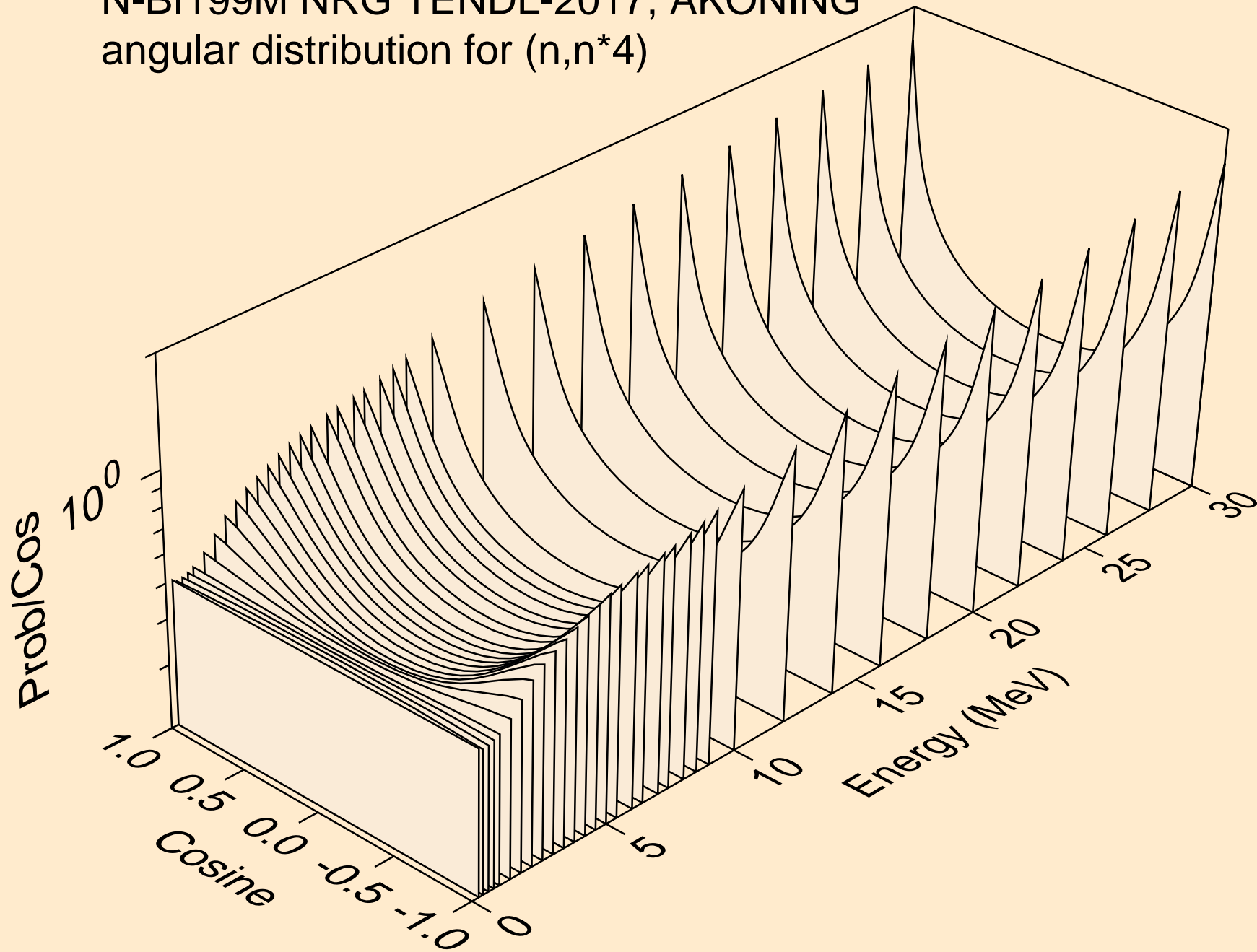
N-BI199M NRG TENDL-2017, AKONING  
angular distribution for (n,n\*2)



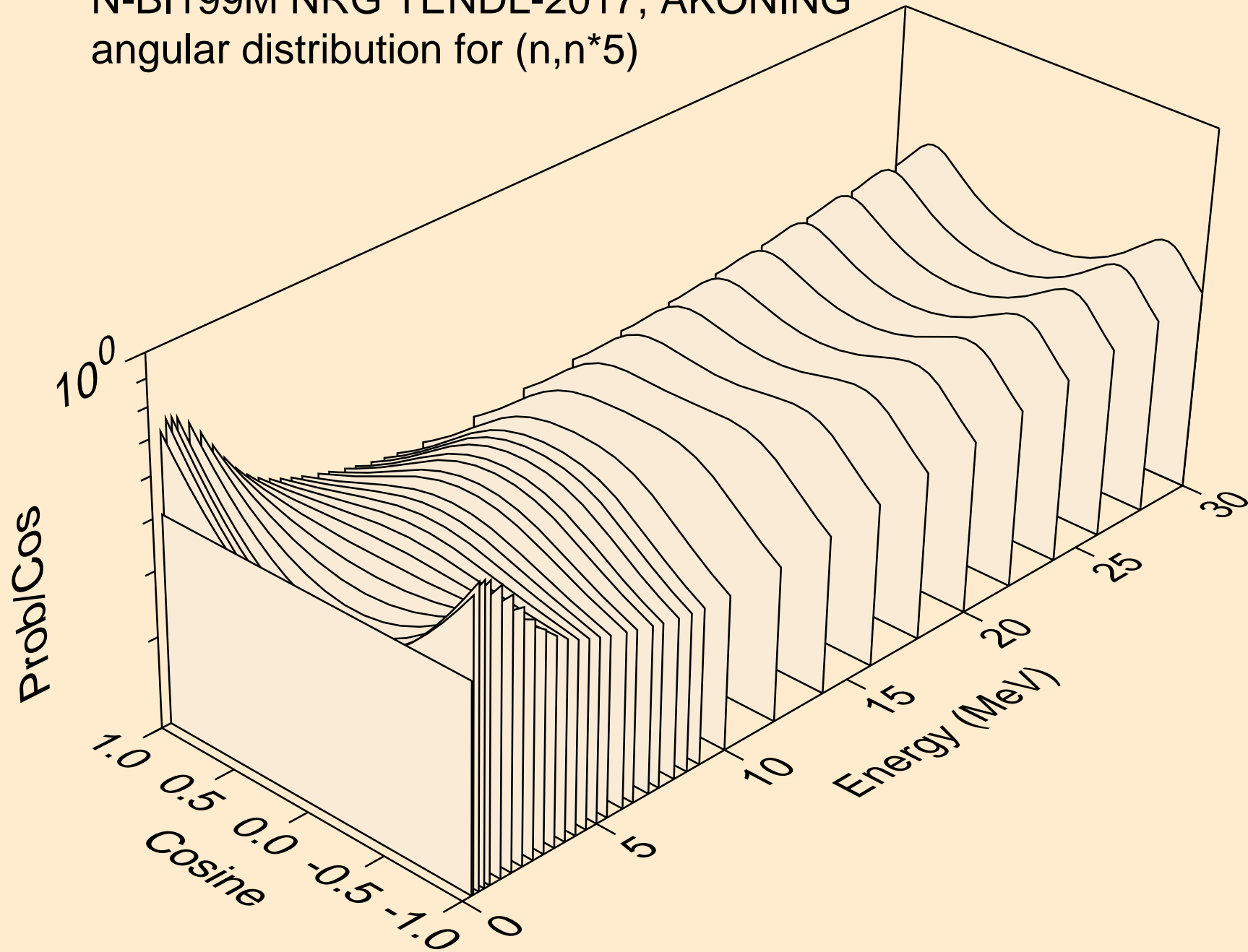
N-BI199M NRG TENDL-2017, AKONING  
angular distribution for (n,n\*3)



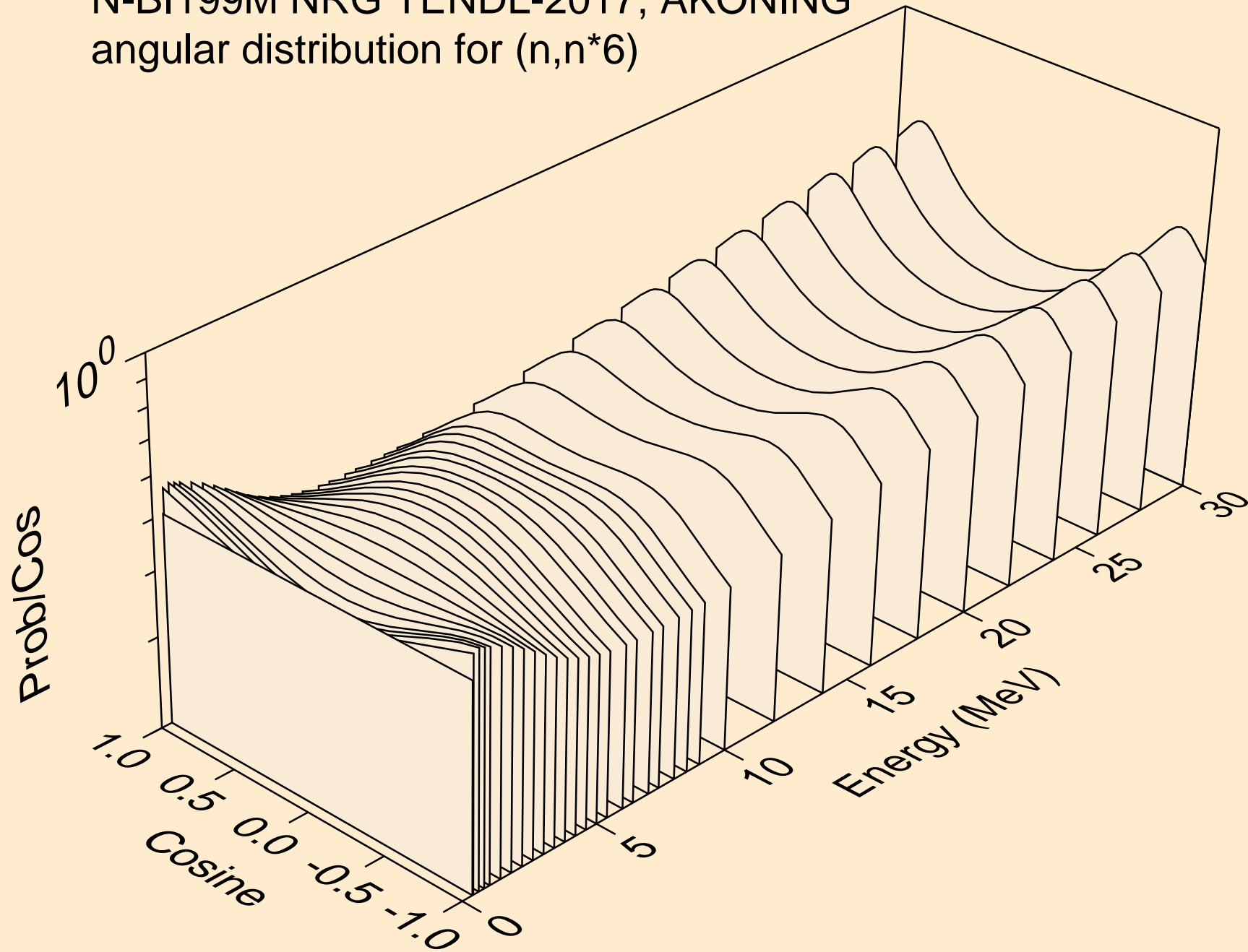
N-BI199M NRG TENDL-2017, AKONING  
angular distribution for (n,n\*4)



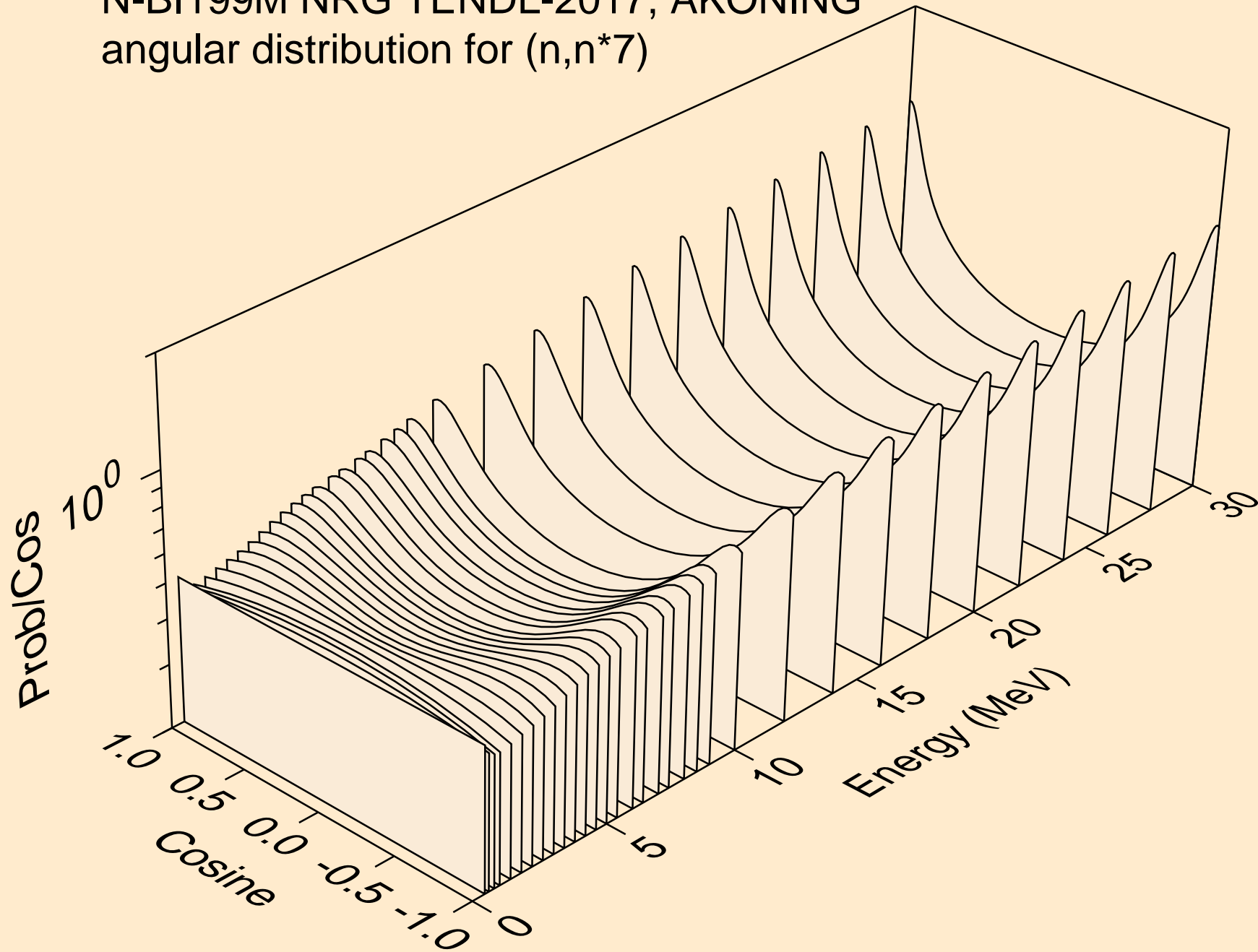
N-BI199M NRG TENDL-2017, AKONING  
angular distribution for (n,n\*5)



N-BI199M NRG TENDL-2017, AKONING  
angular distribution for (n,n\*6)

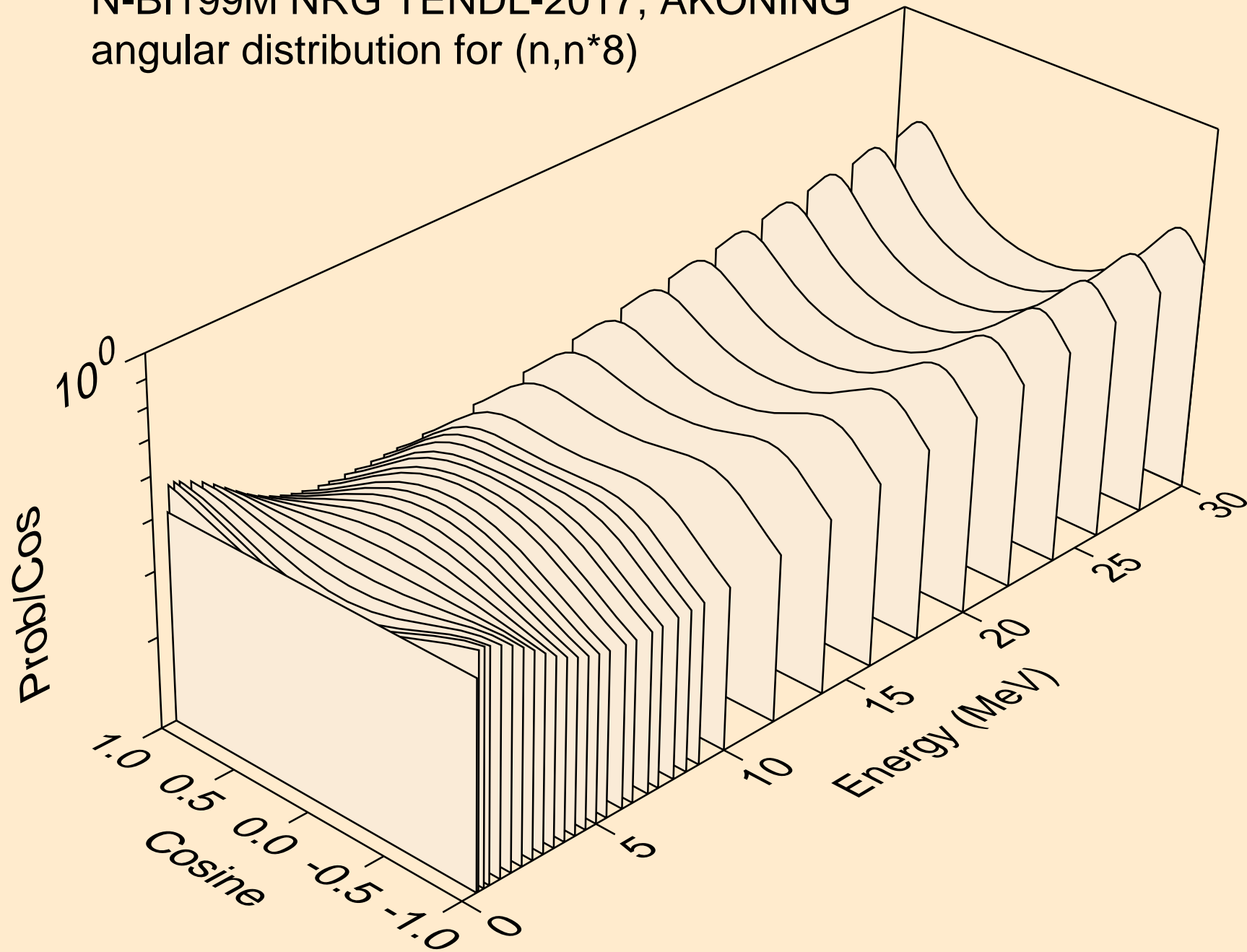


N-BI199M NRG TENDL-2017, AKONING  
angular distribution for (n,n\*7)

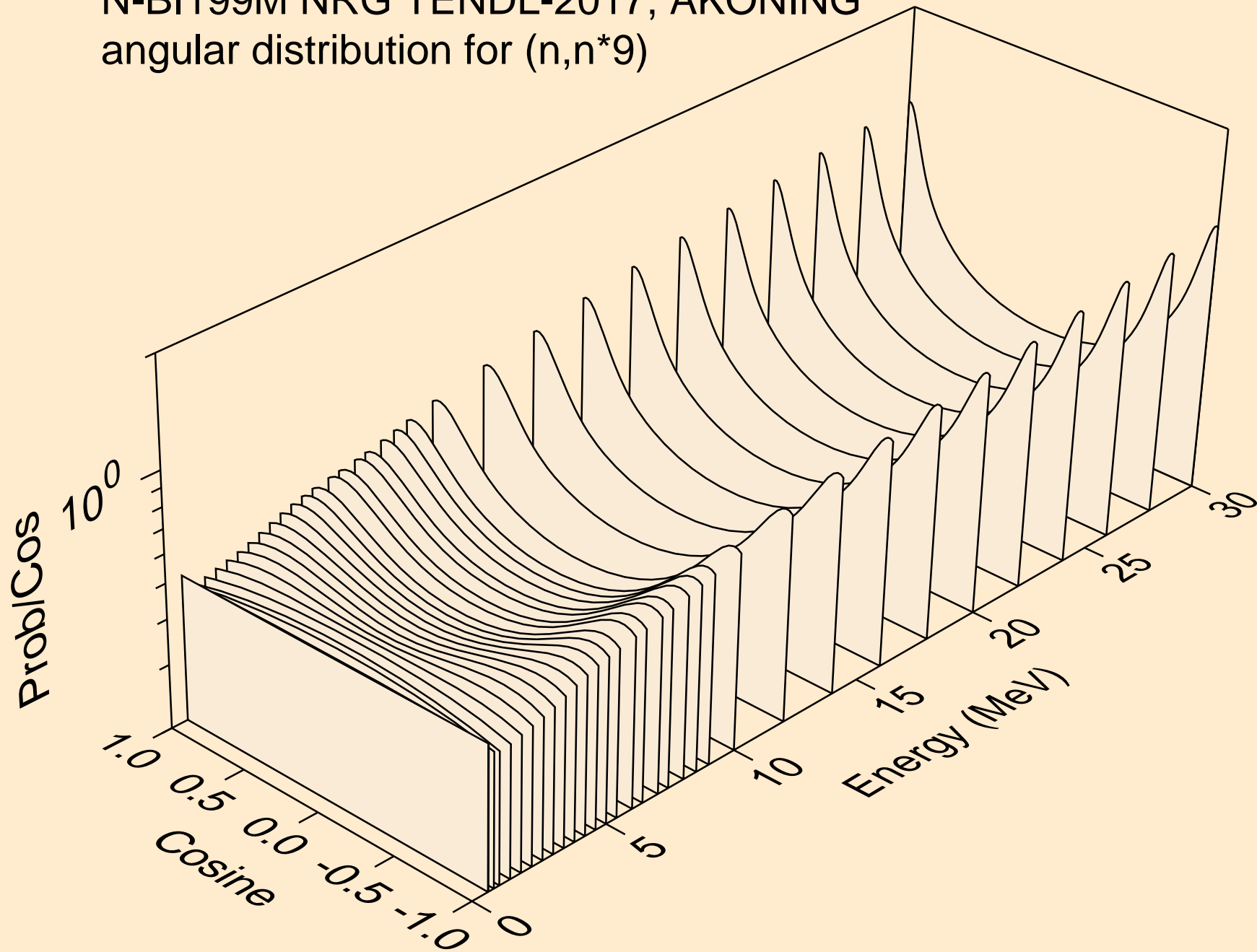




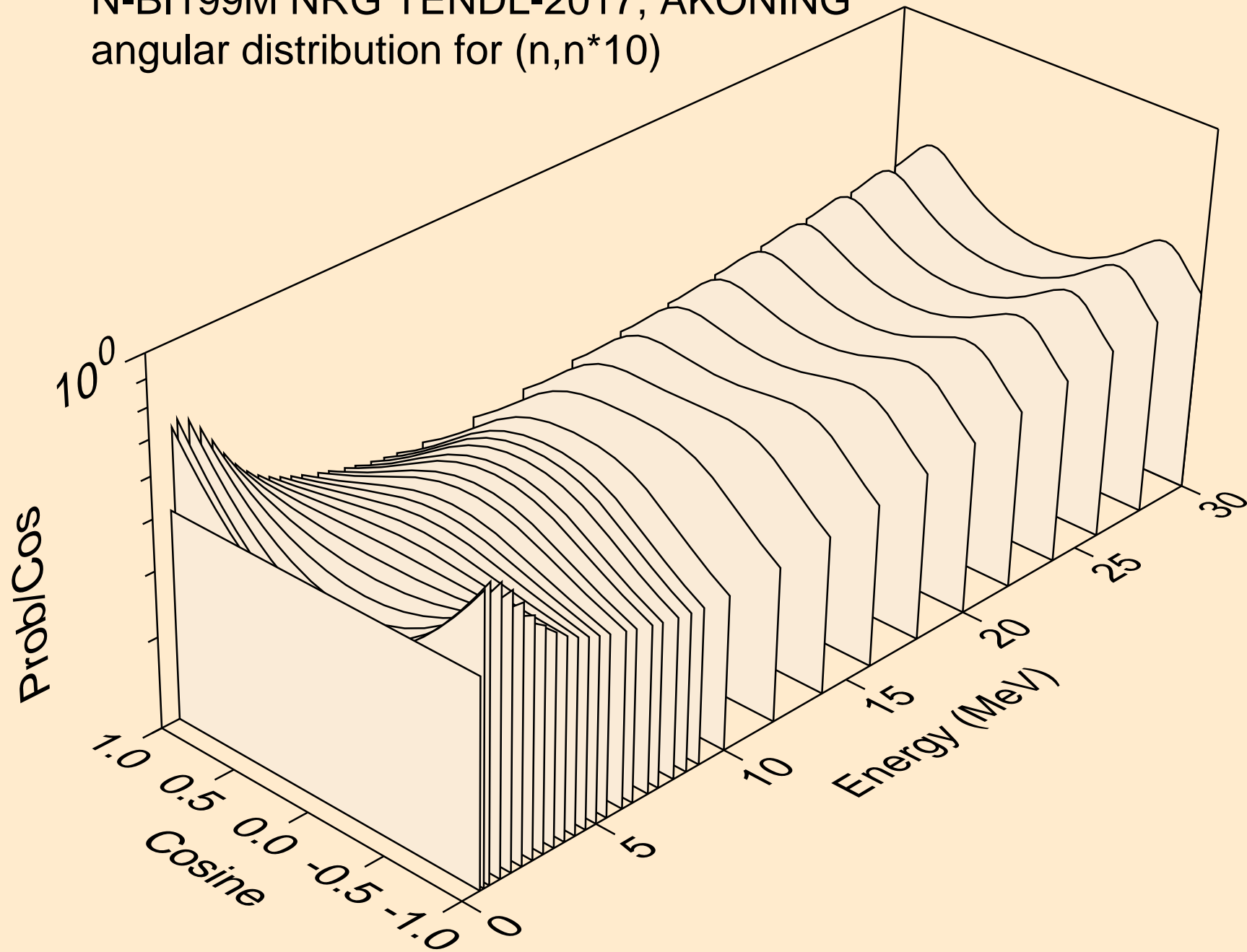
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angular distribution for (n,n\*8)



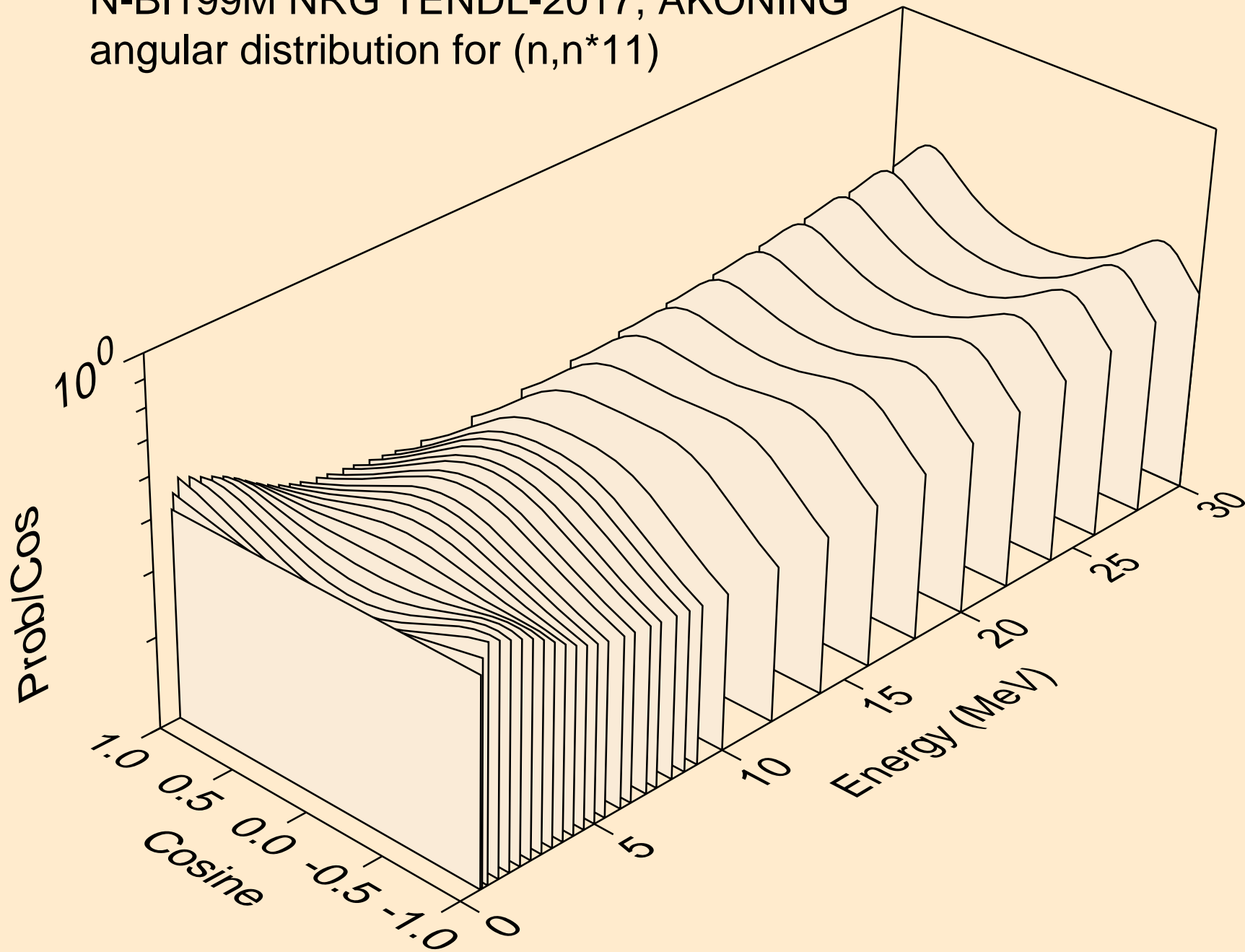
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angular distribution for (n,n\*9)



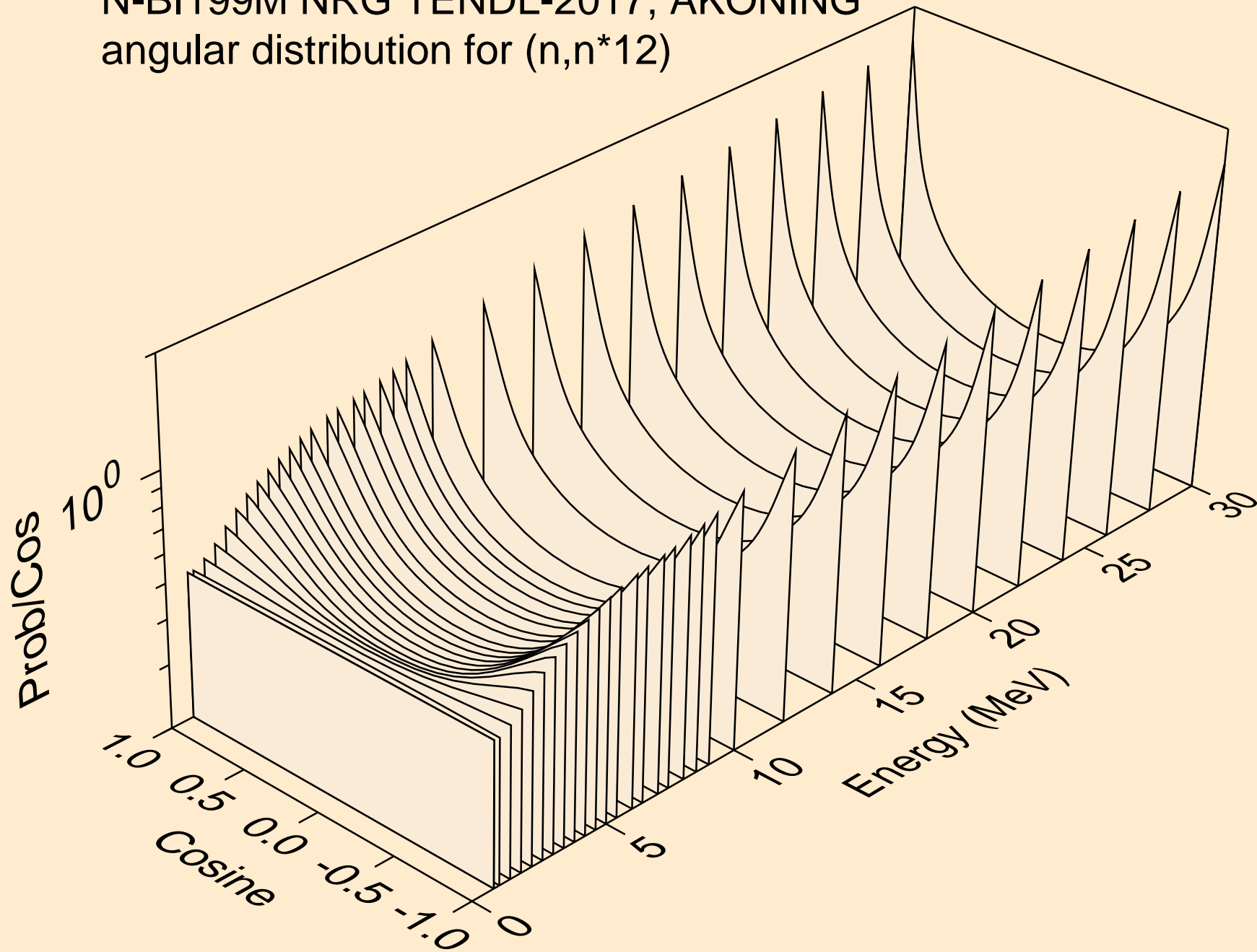
N-BI199M NRG TENDL-2017, AKONING  
angular distribution for (n,n\*10)



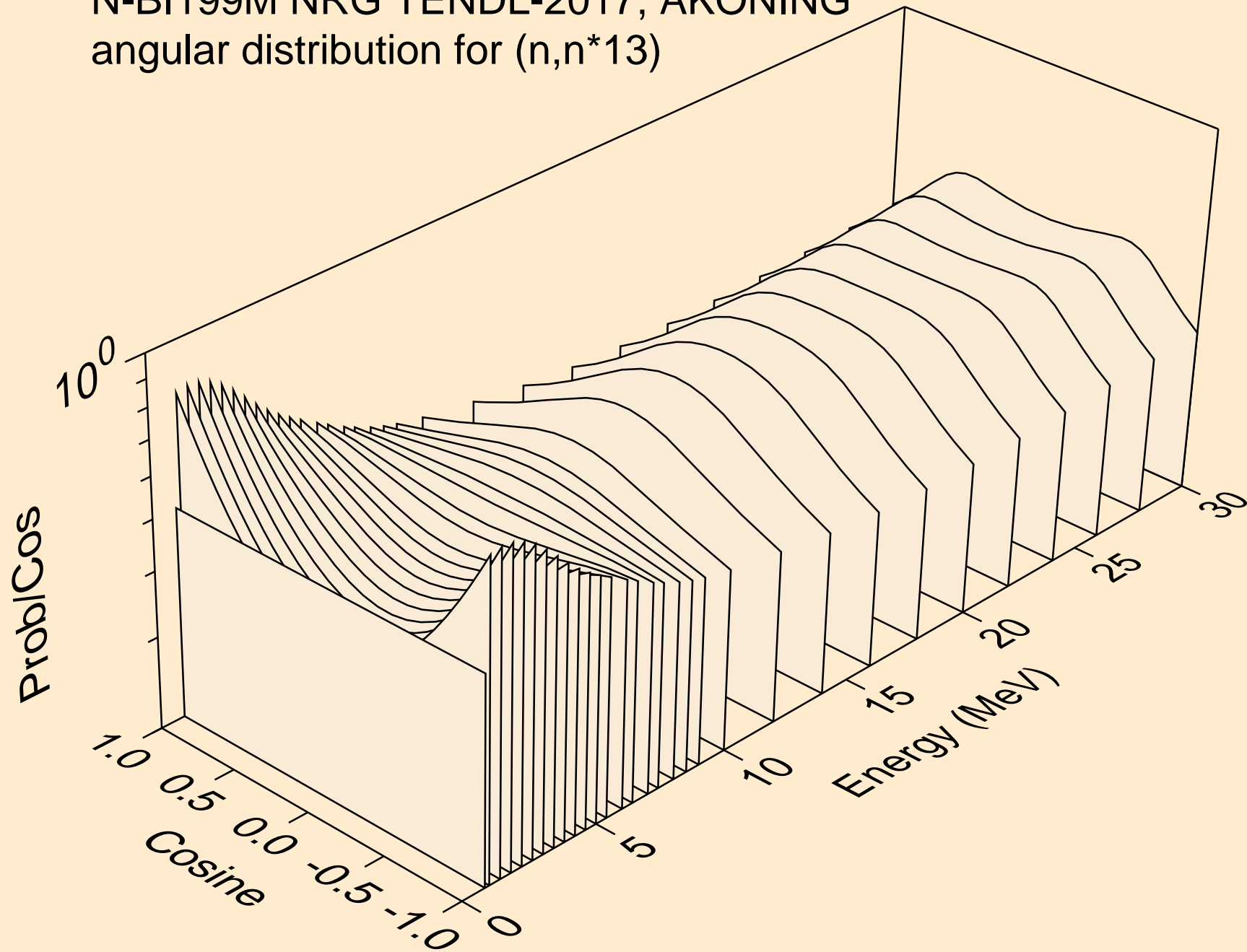
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angular distribution for (n,n\*11)



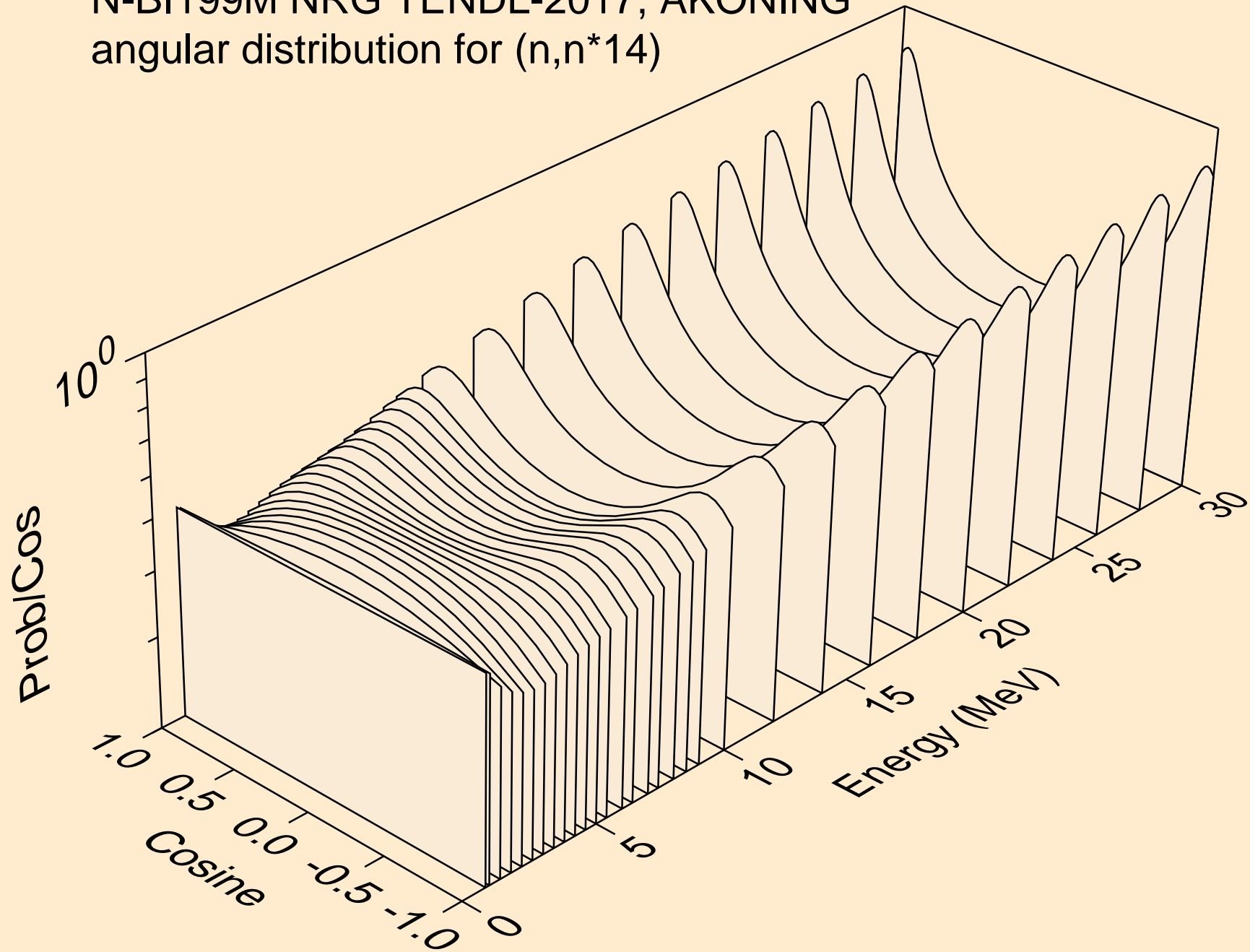
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angular distribution for (n,n\*12)



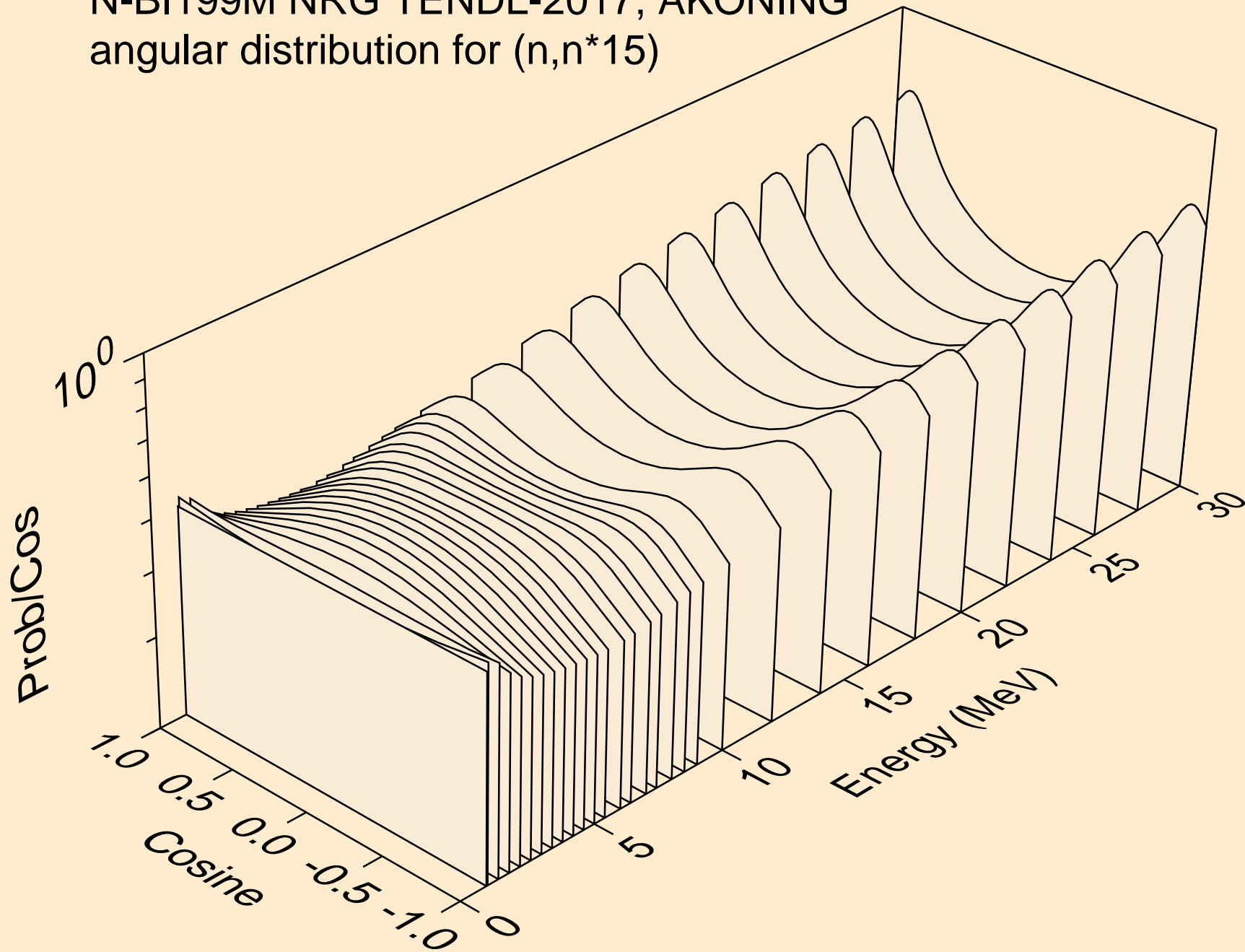
N-BI199M NRG TENDL-2017, AKONING  
angular distribution for (n,n\*13)



N-BI199M NRG TENDL-2017, AKONING  
angular distribution for (n,n\*14)

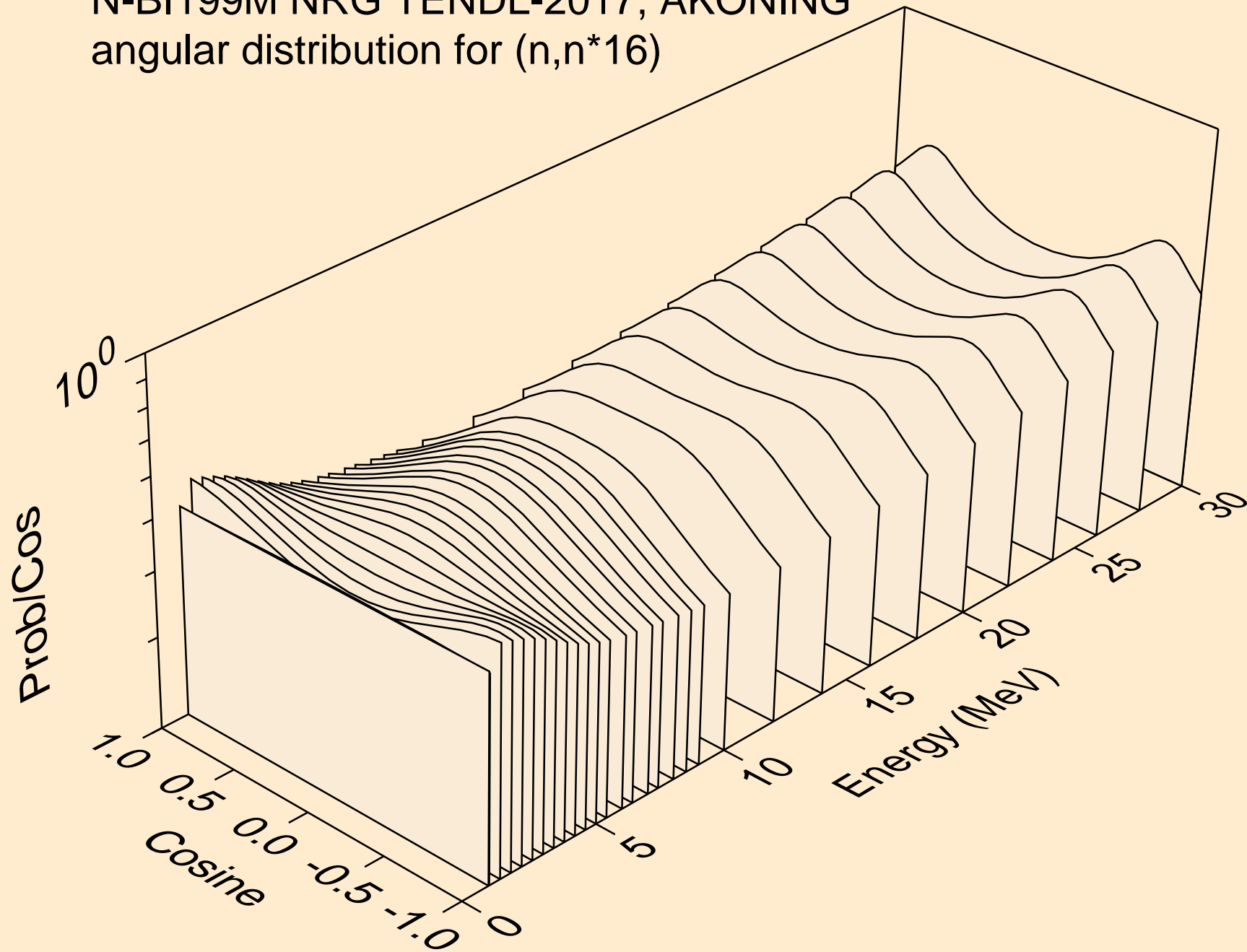


N-BI199M NRG TENDL-2017, AKONING  
angular distribution for (n,n\*15)

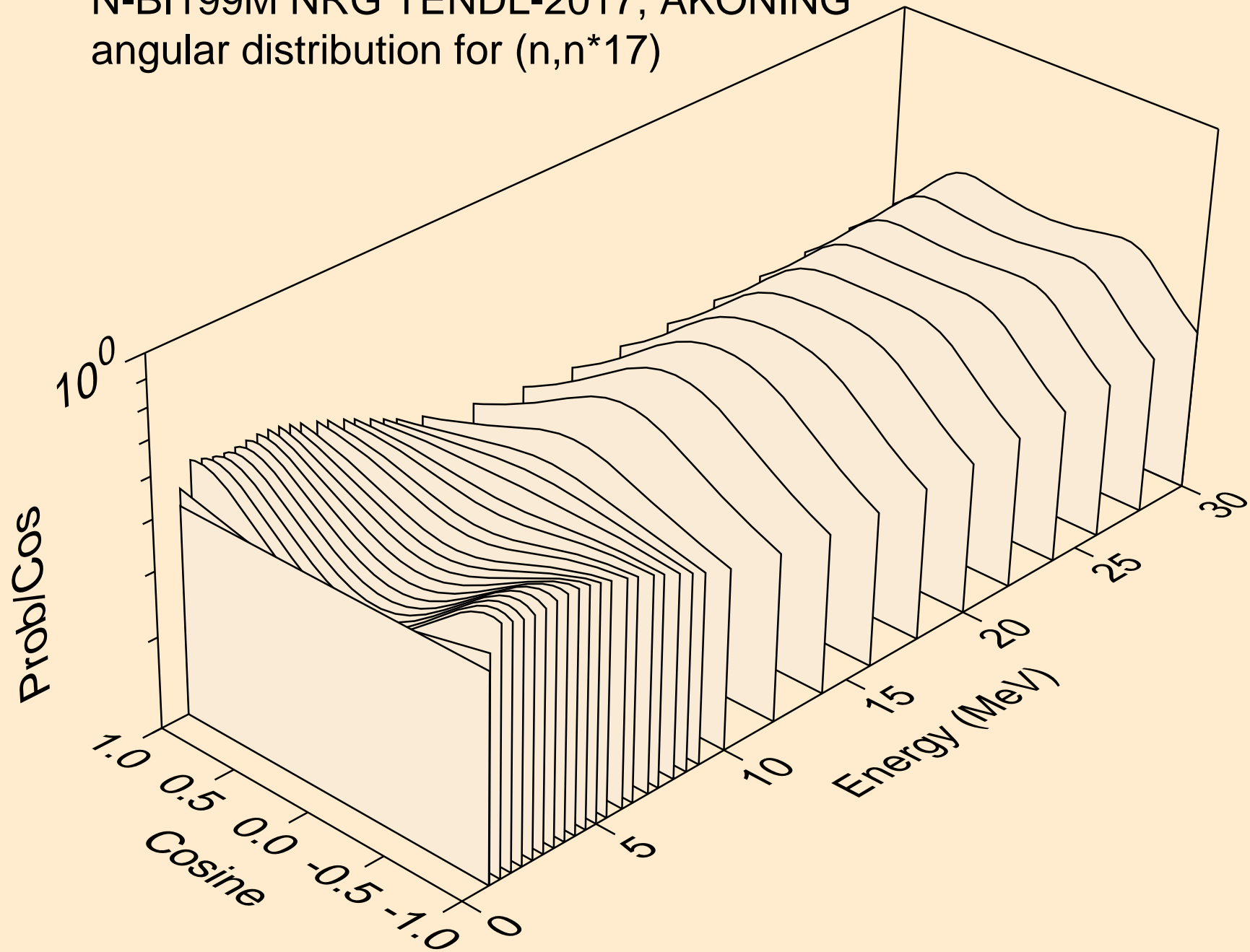




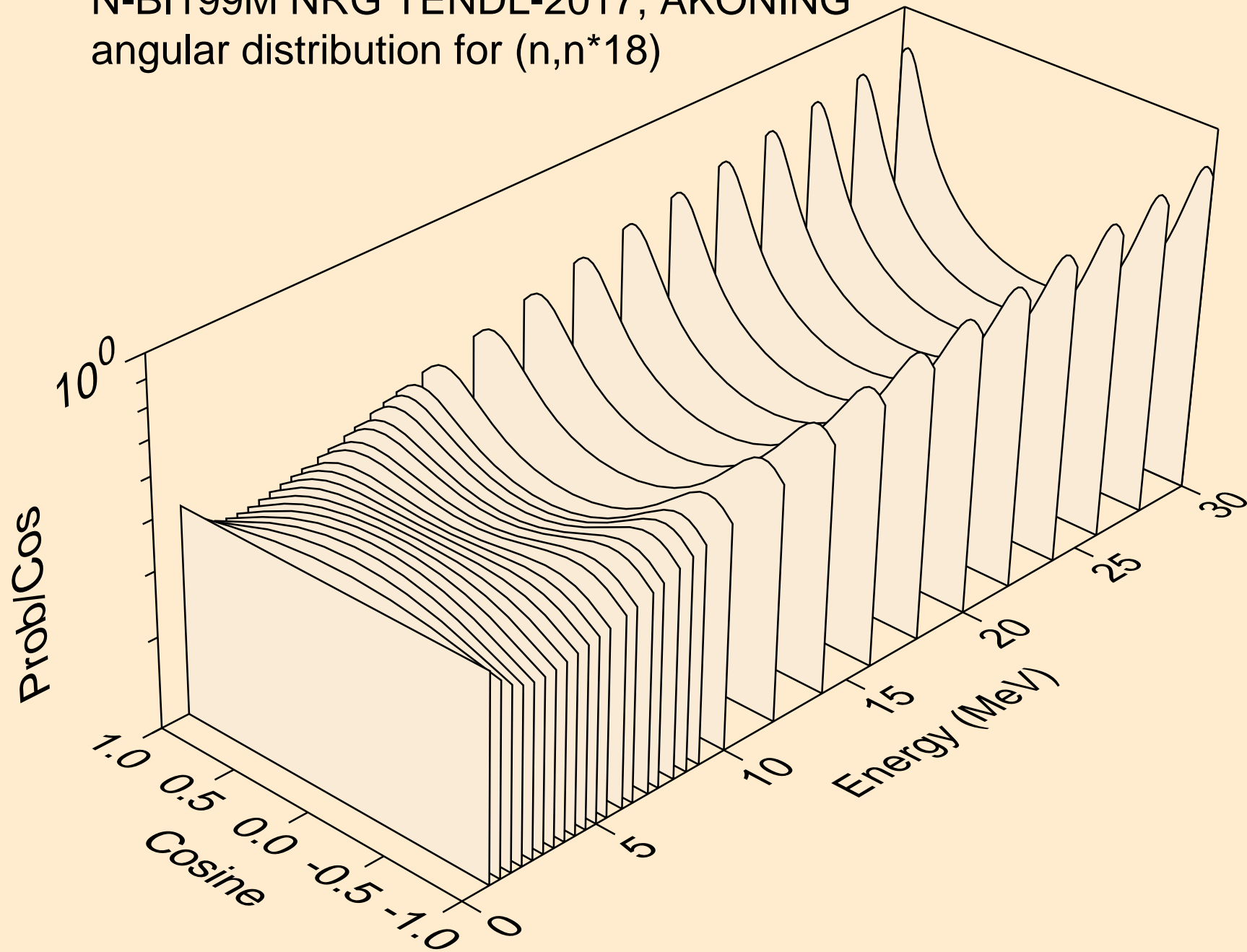
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angular distribution for (n,n\*16)



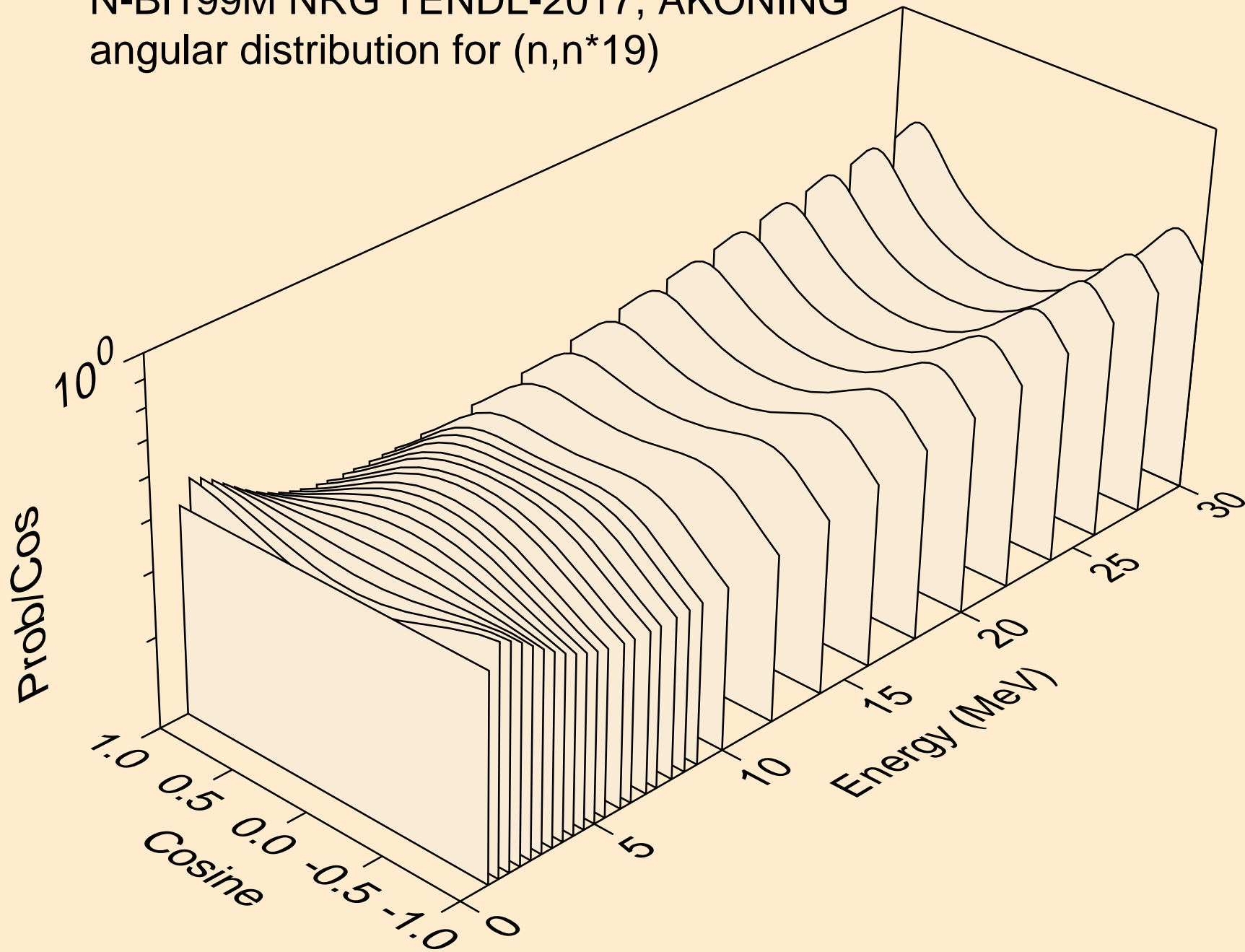
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angular distribution for (n,n\*17)



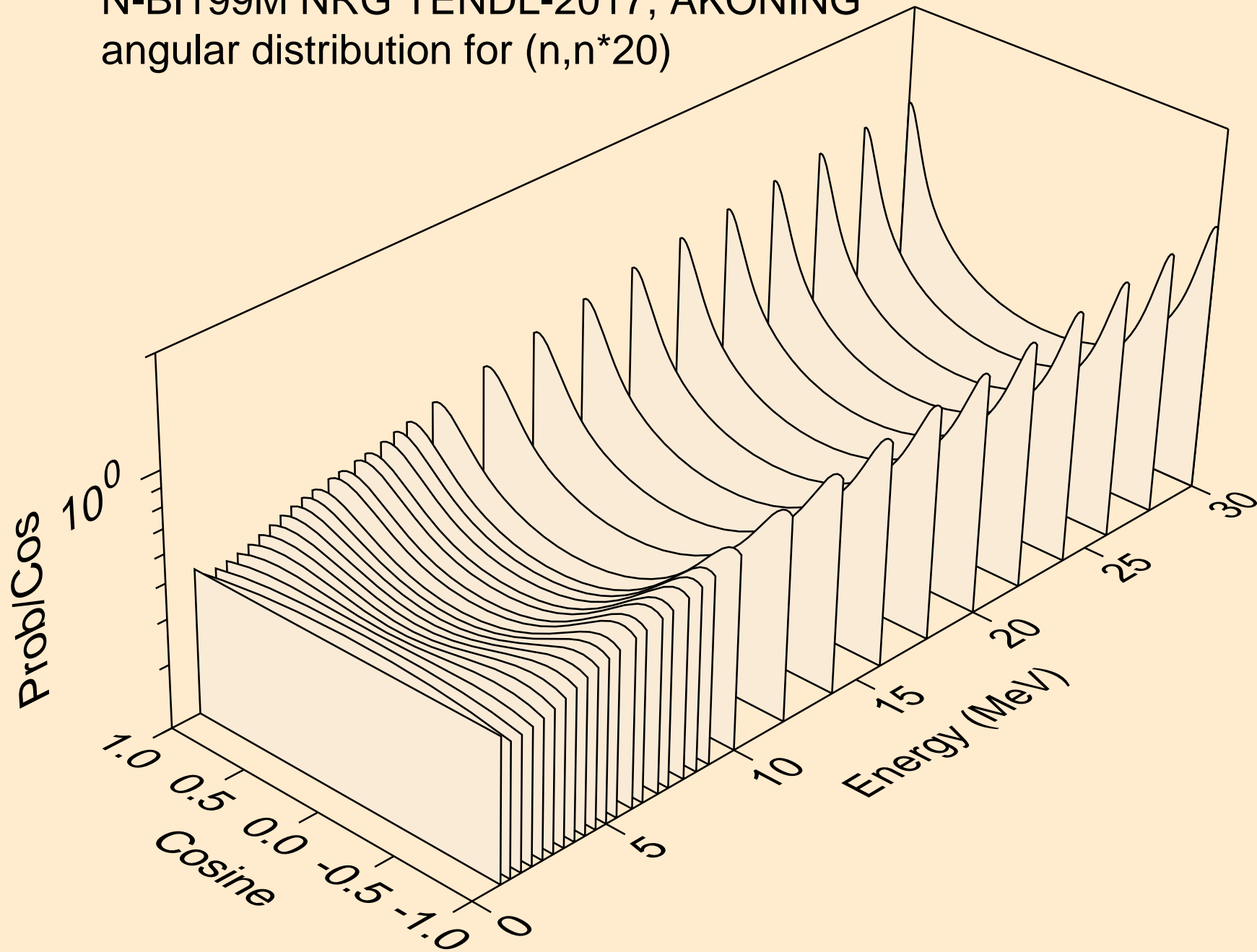
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angular distribution for (n,n\*18)



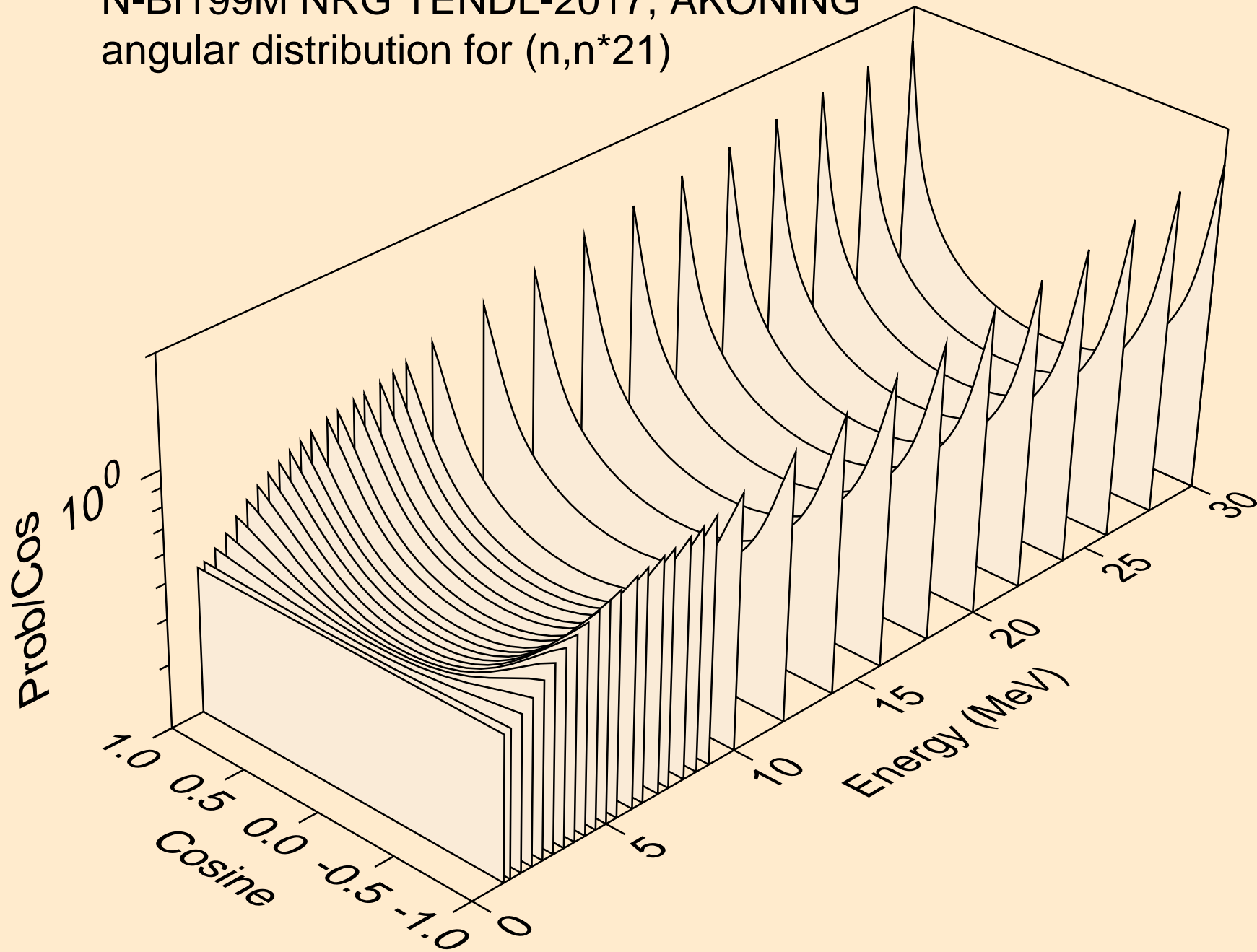
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angular distribution for (n,n\*19)



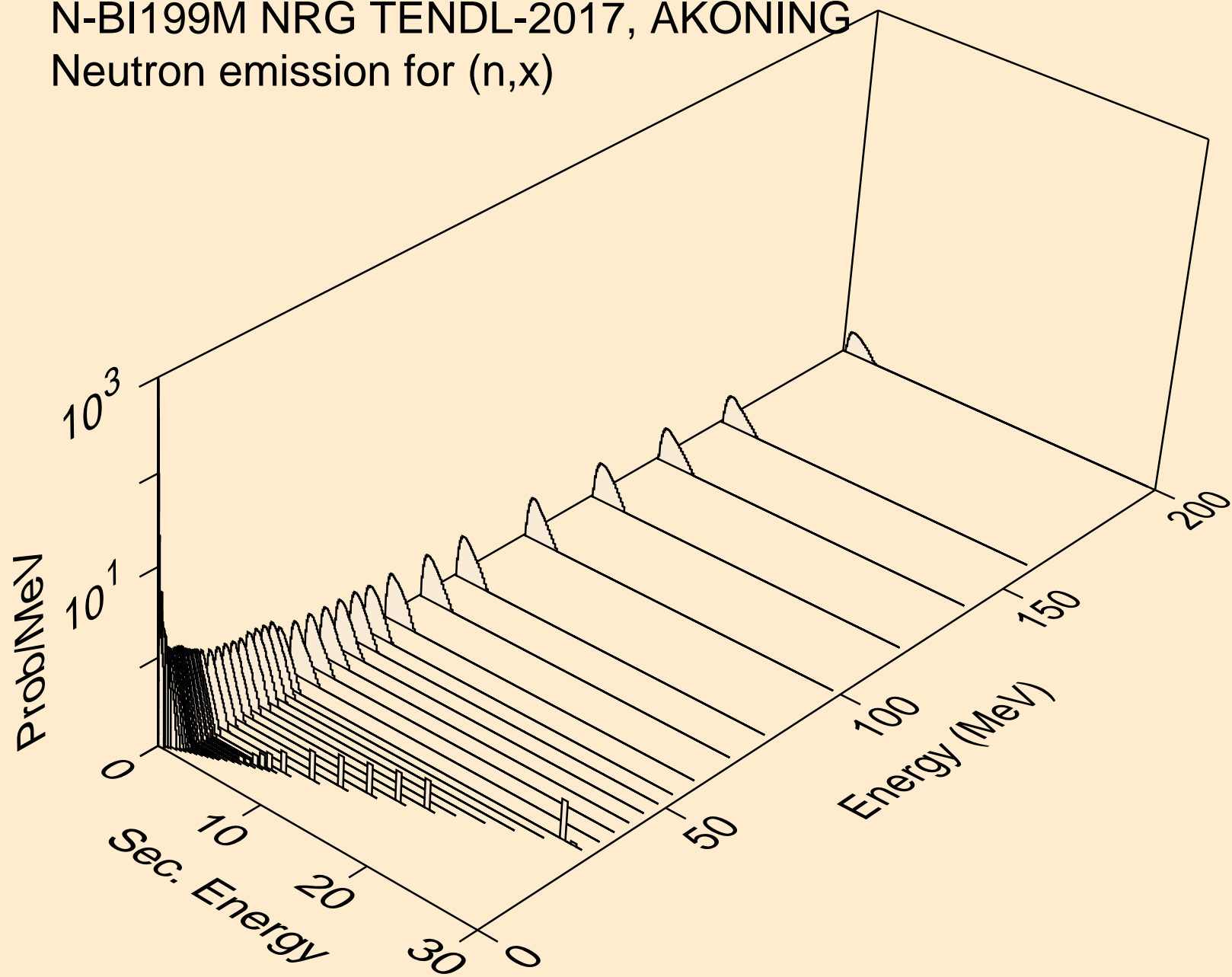
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angular distribution for (n,n\*20)



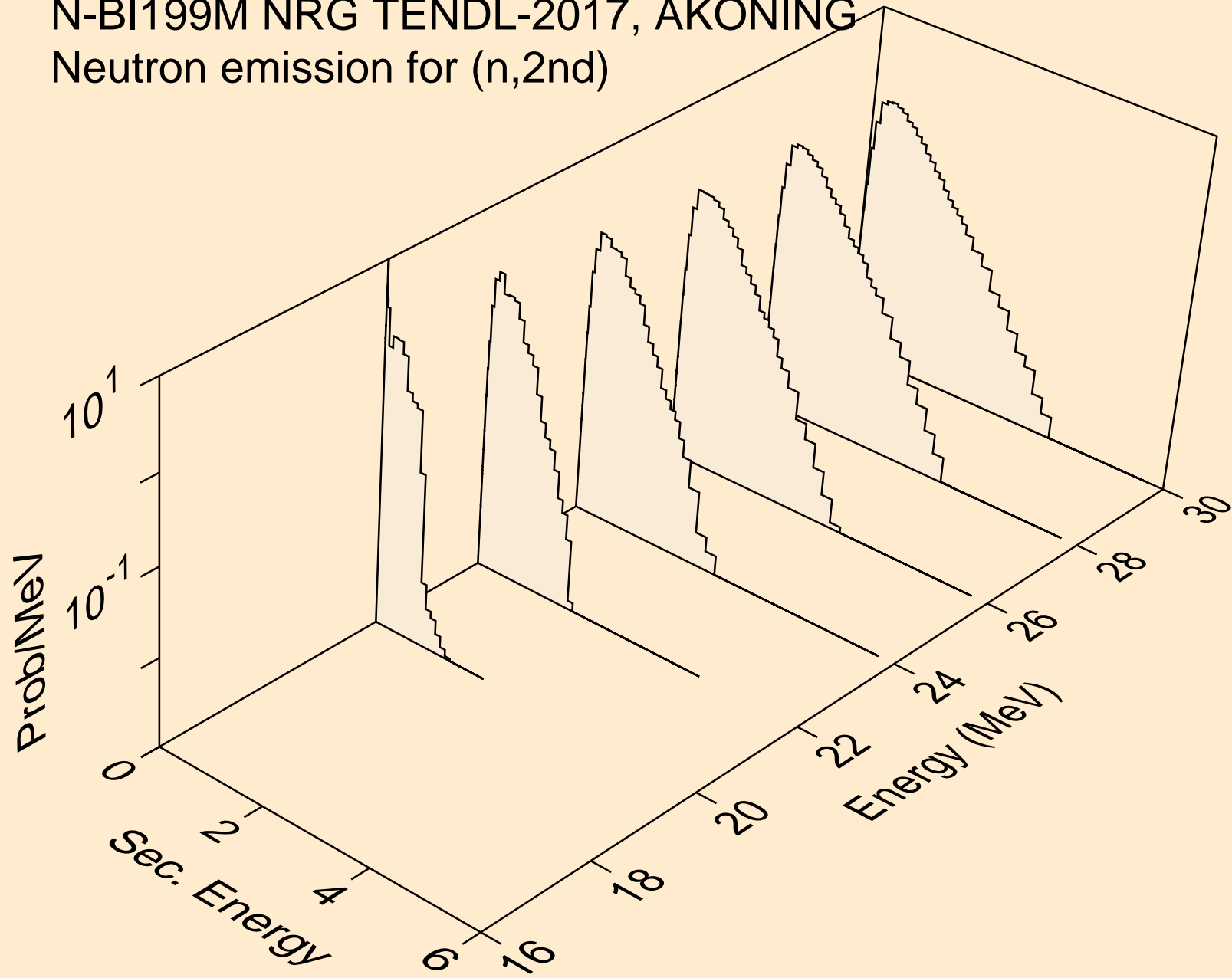
N-BI199M NRG TENDL-2017, AKONING  
angular distribution for (n,n\*21)



N-BI199M NRG TENDL-2017, AKONING  
Neutron emission for (n,x)

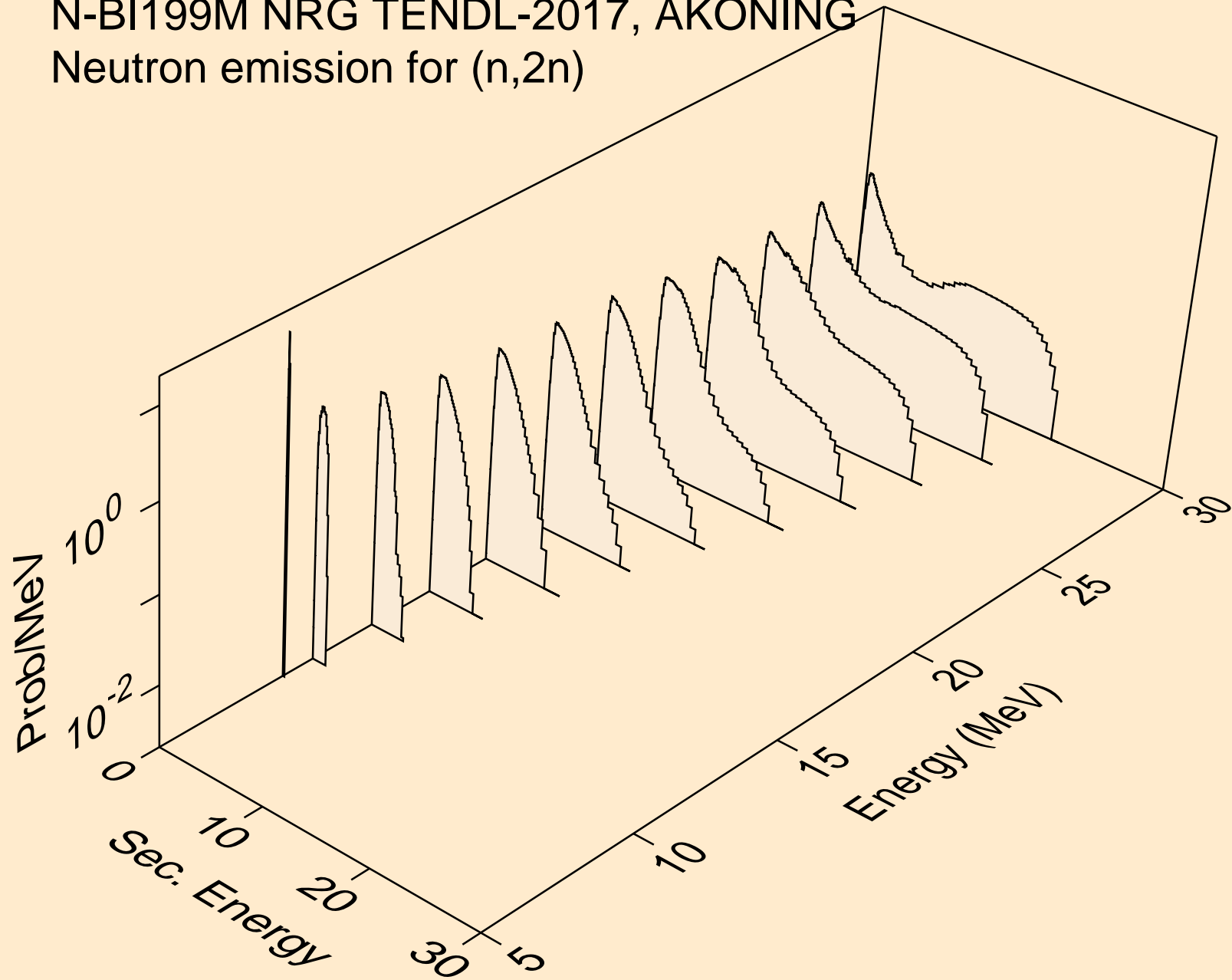


N-BI199M NRG TENDL-2017, AKONING  
Neutron emission for (n,2nd)

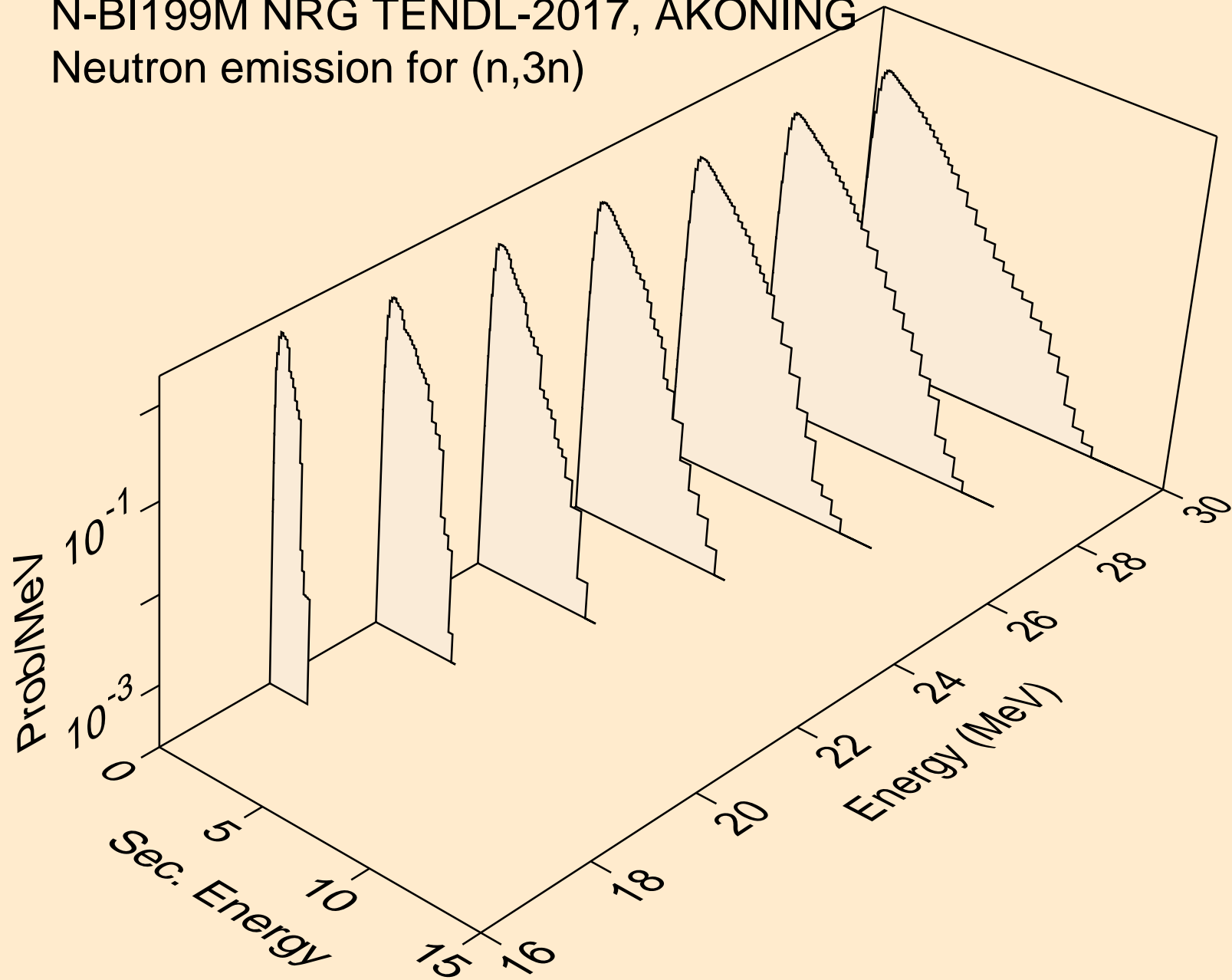




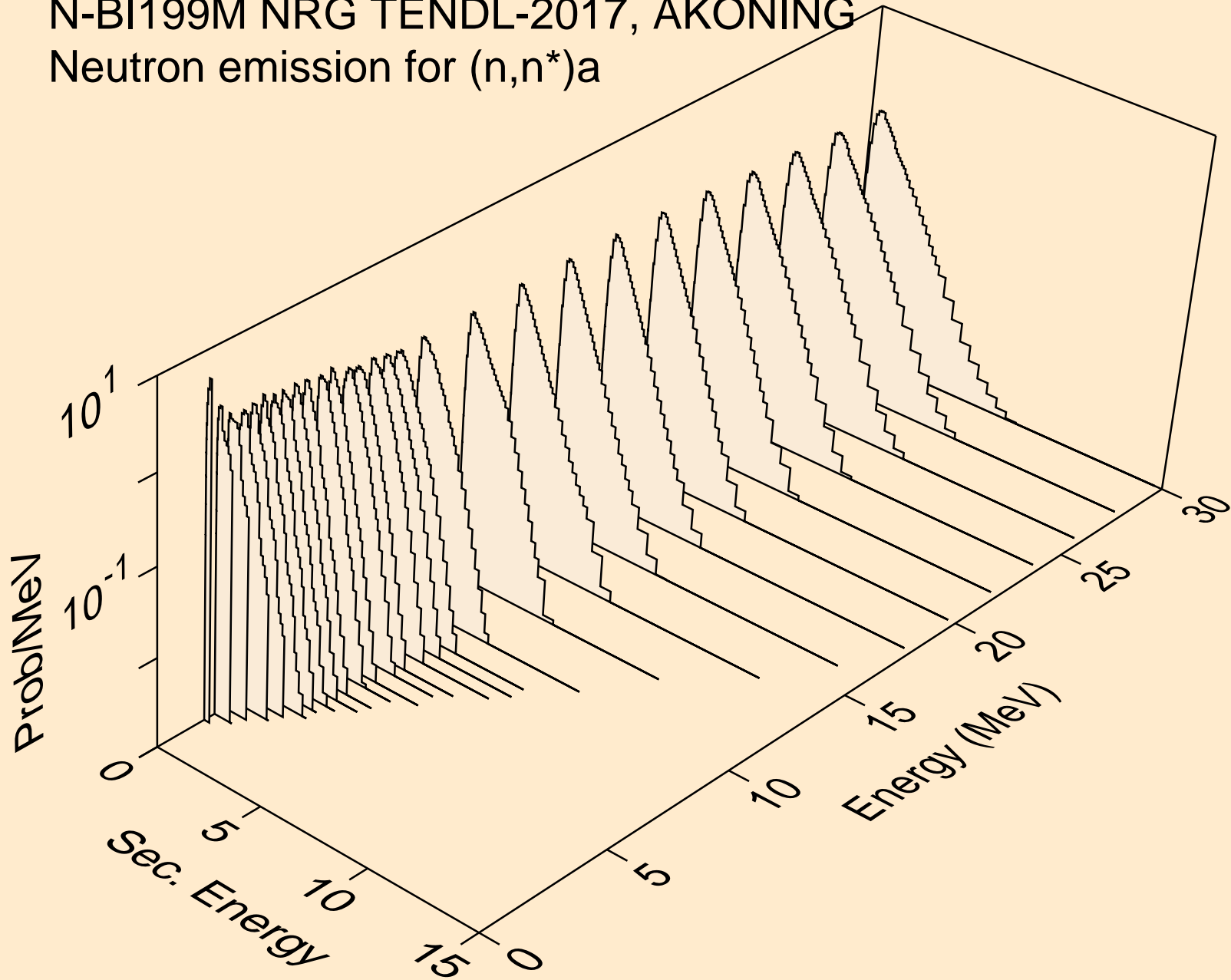
N-BI199M NRG TENDL-2017, AKONING  
Neutron emission for (n,2n)



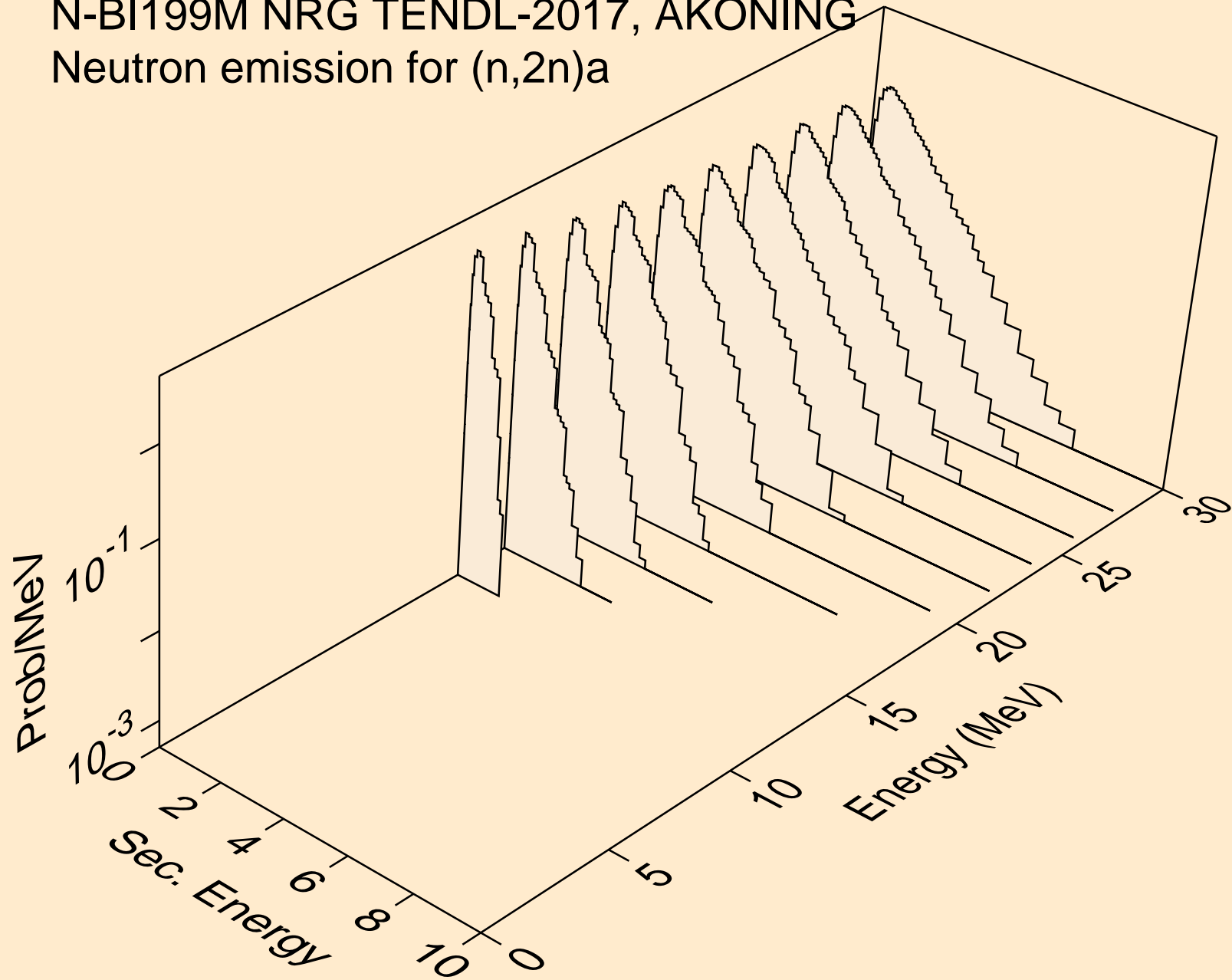
N-BI199M NRG TENDL-2017, AKONING  
Neutron emission for (n,3n)



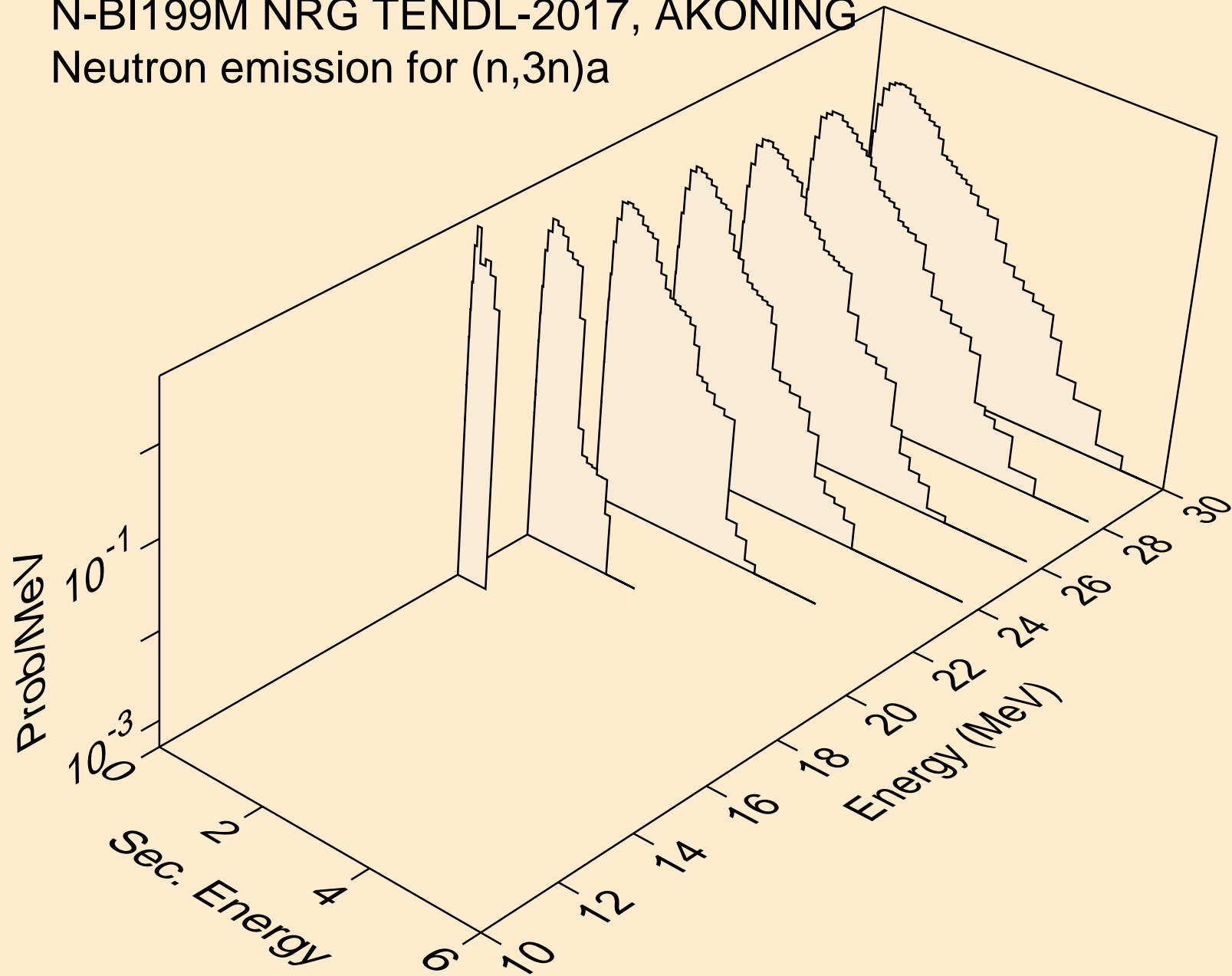
N-BI199M NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*)a



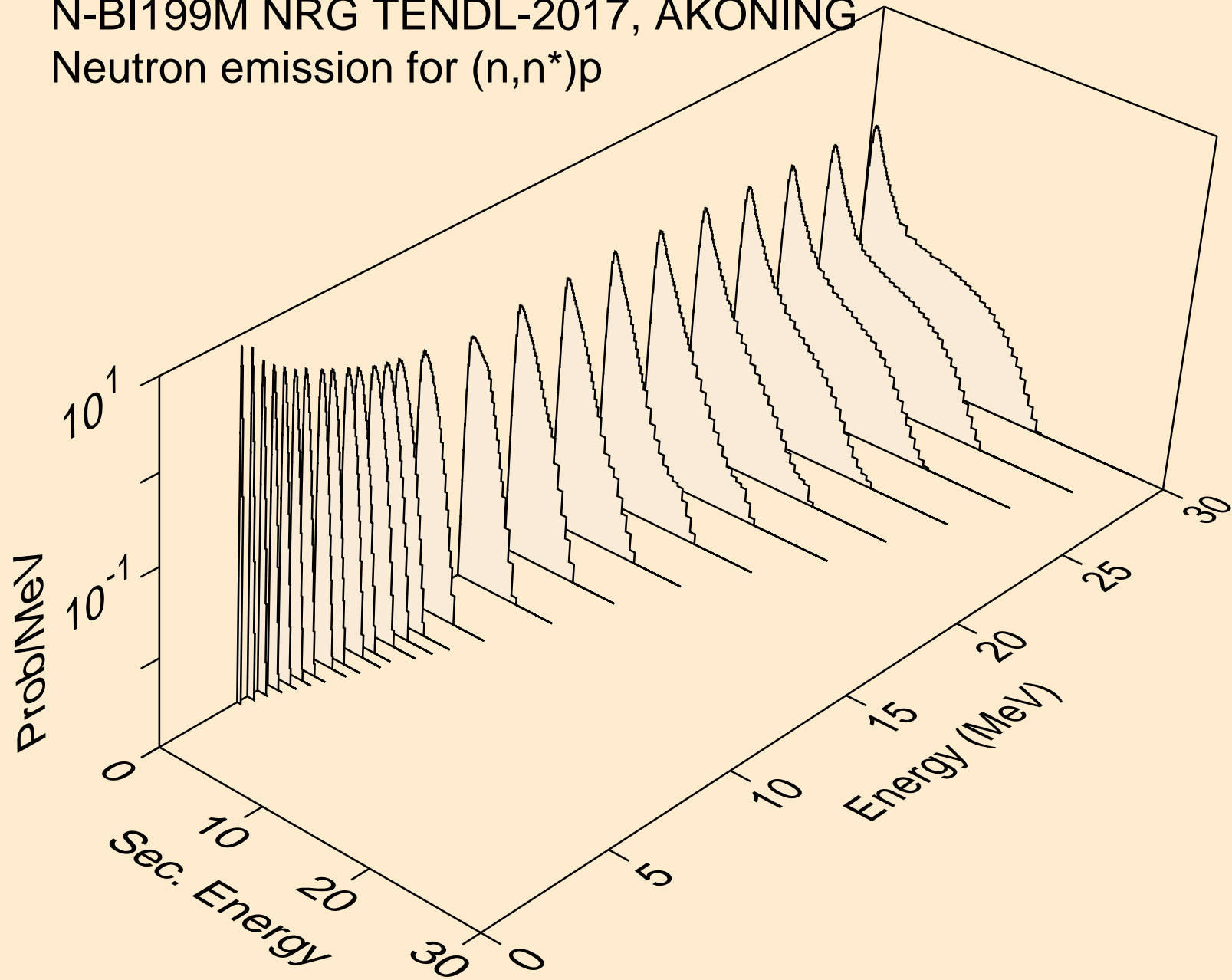
N-BI199M NRG TENDL-2017, AKONING  
Neutron emission for (n,2n)a



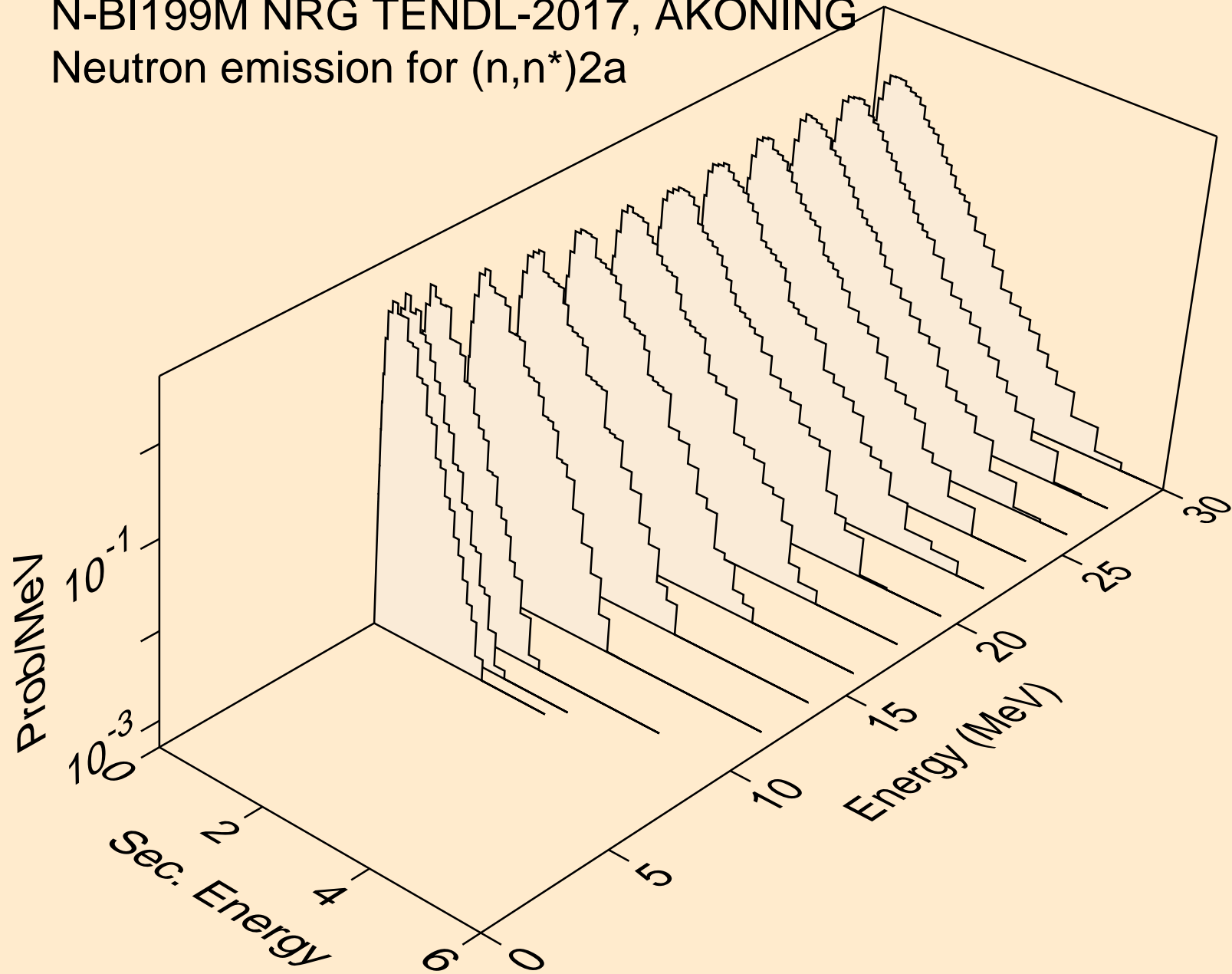
N-BI199M NRG TENDL-2017, AKONING  
Neutron emission for (n,3n)a



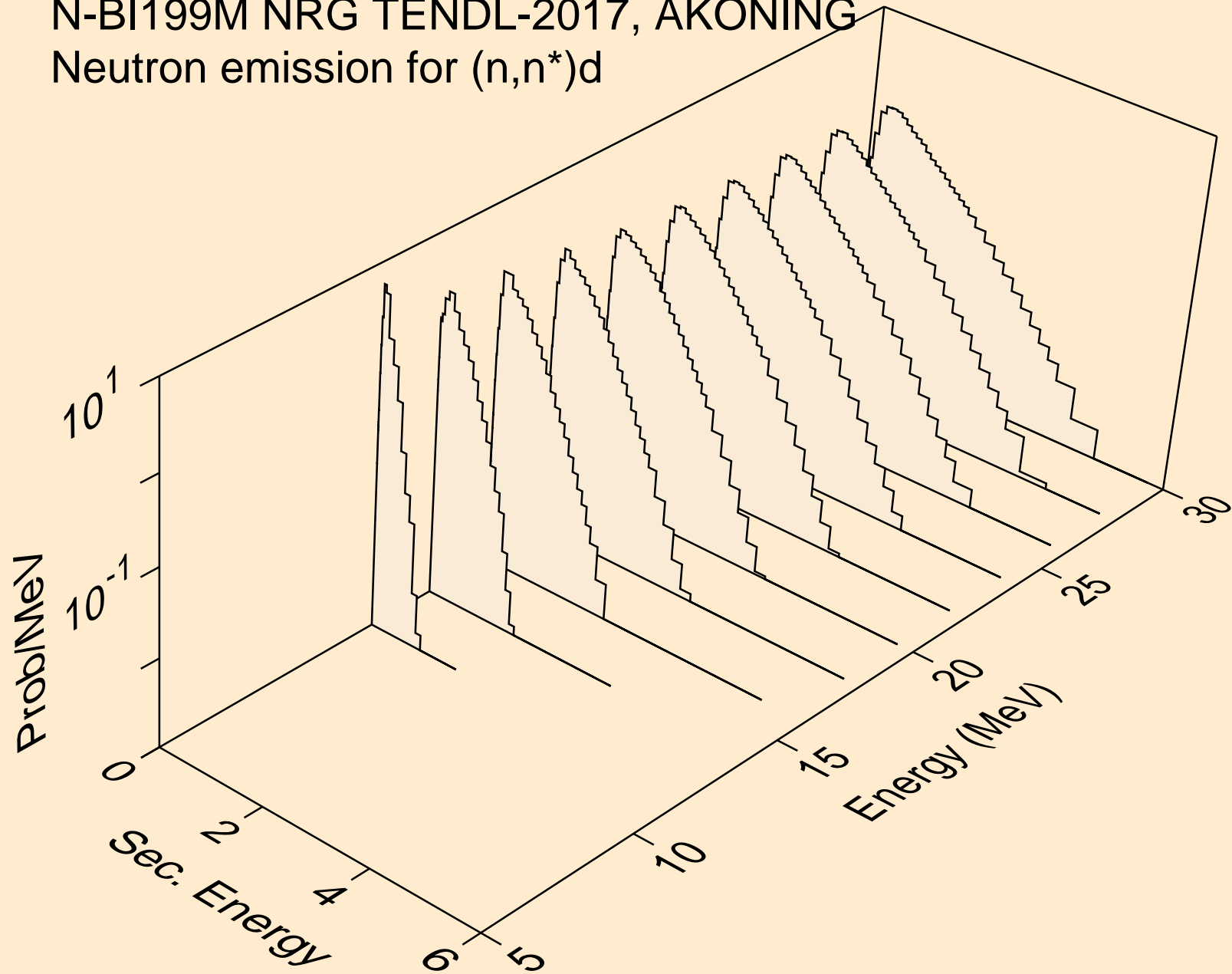
N-BI199M NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*)p



N-BI199M NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*)2a

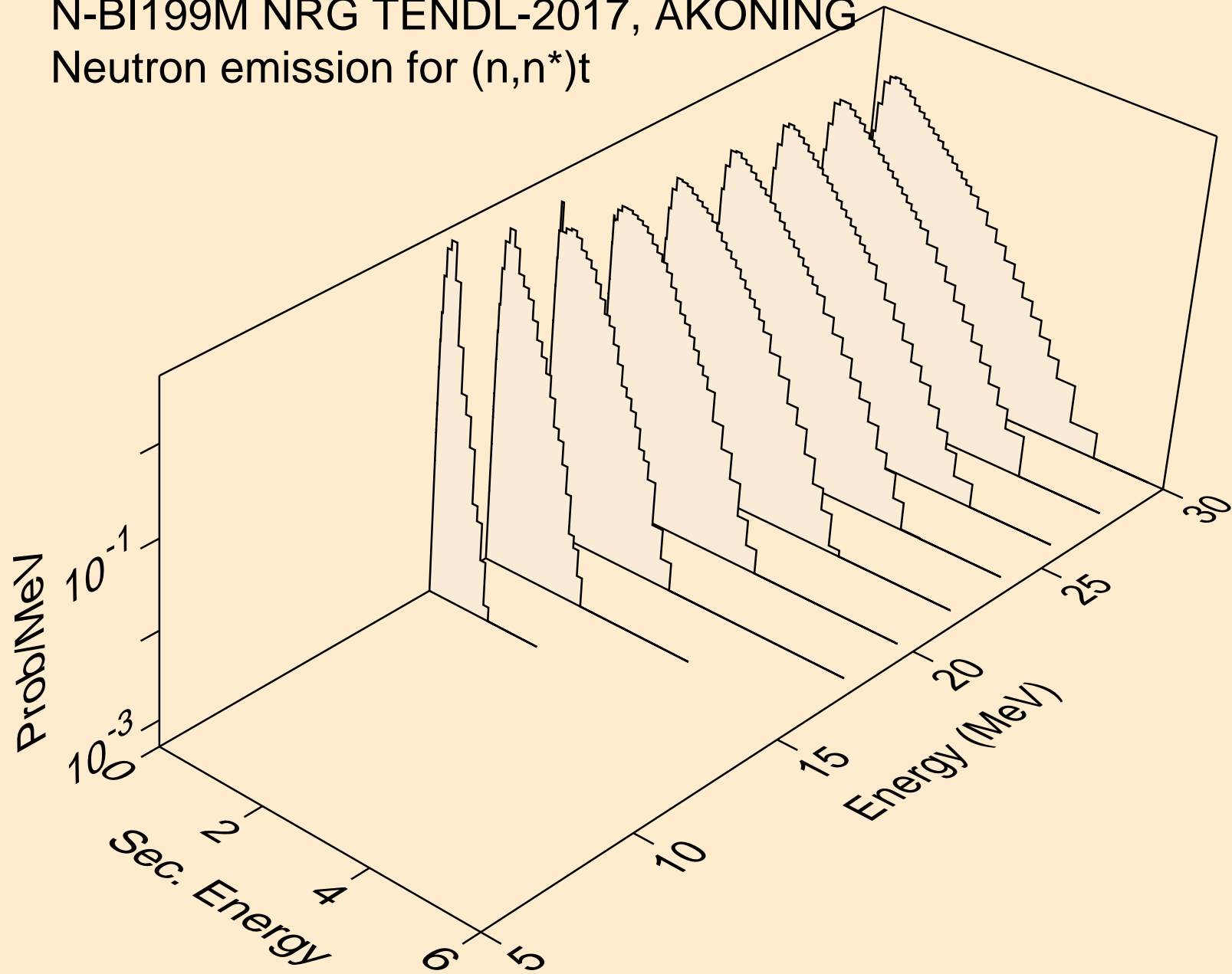


N-BI199M NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*)d

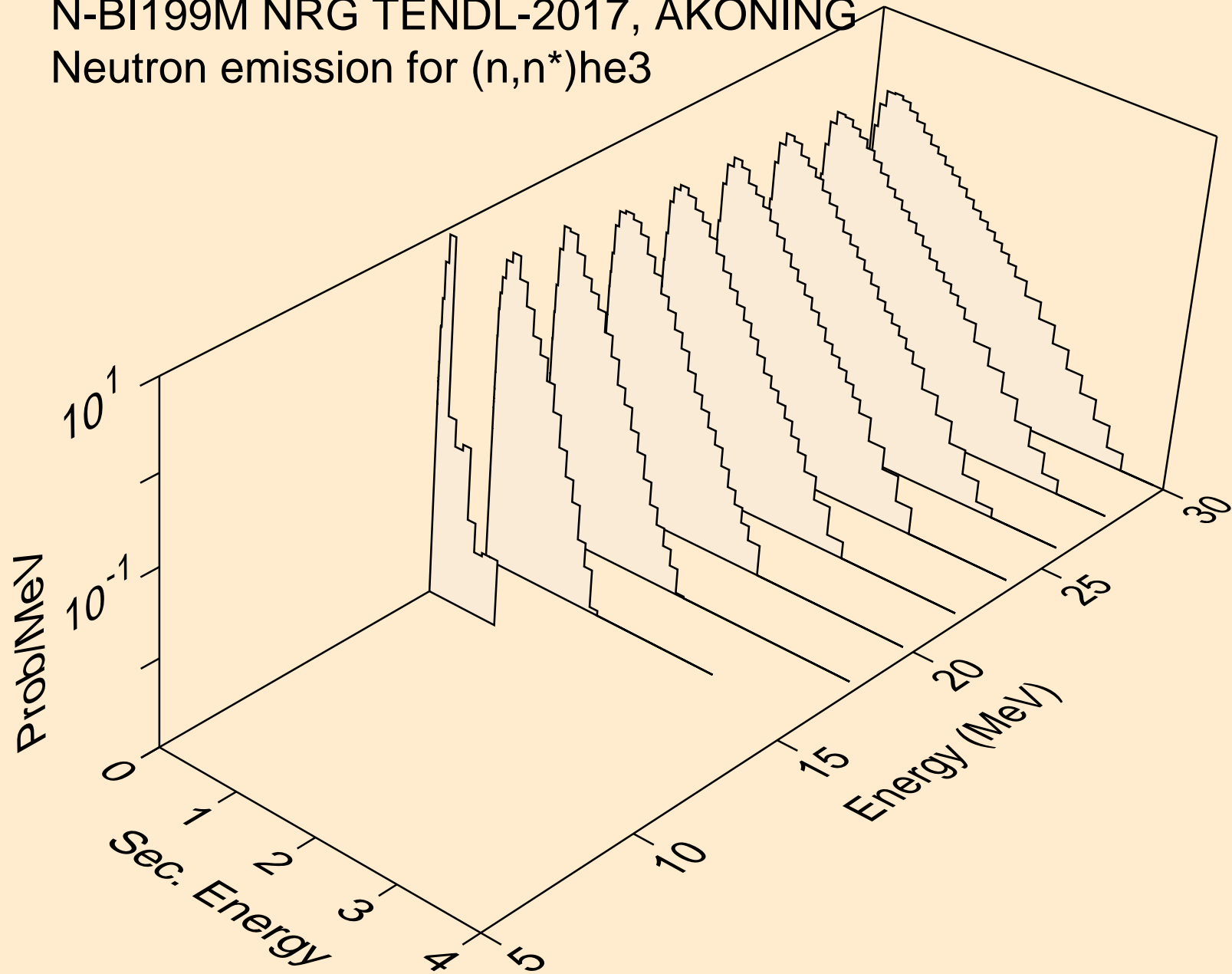




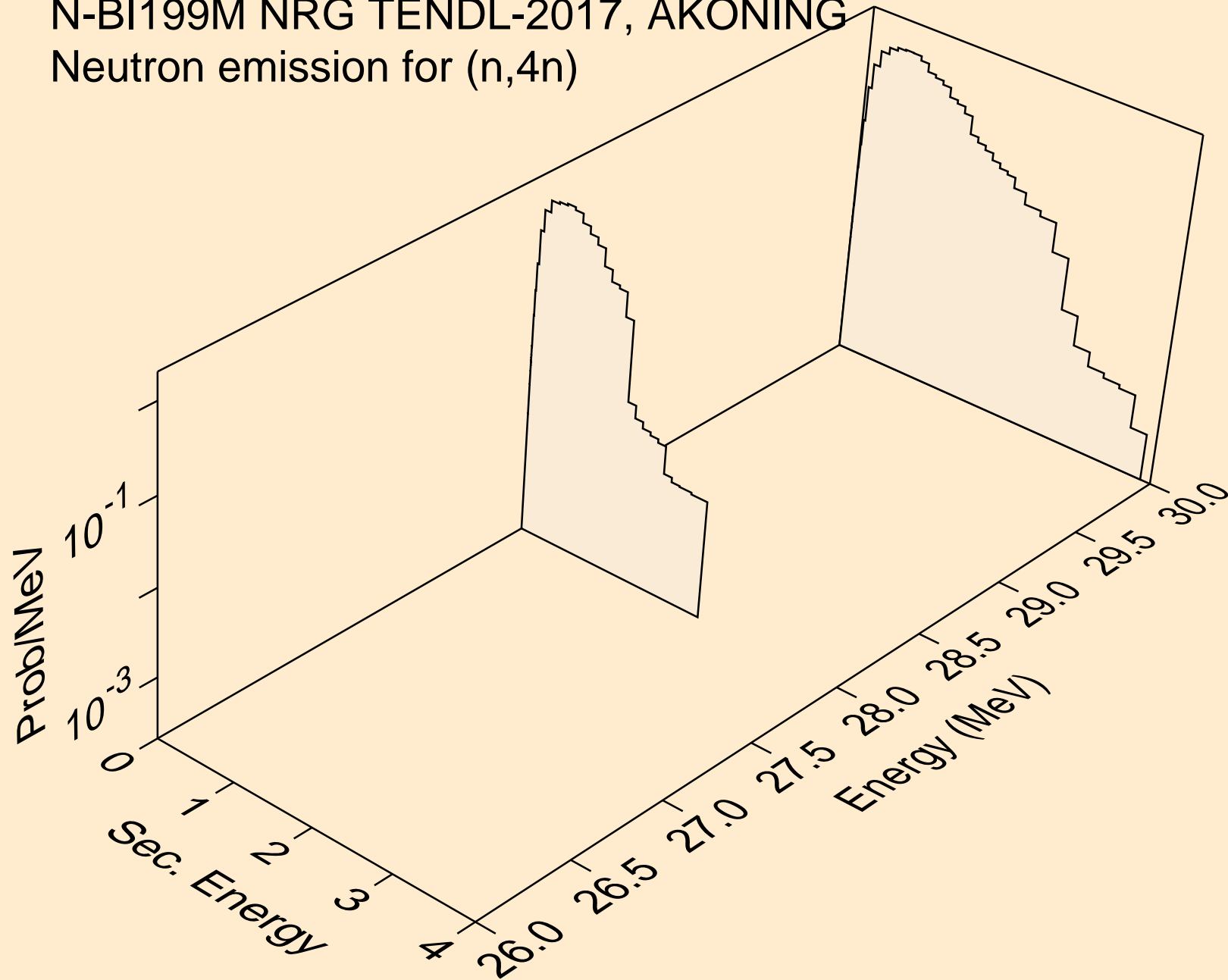
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Neutron emission for (n,n\*)t



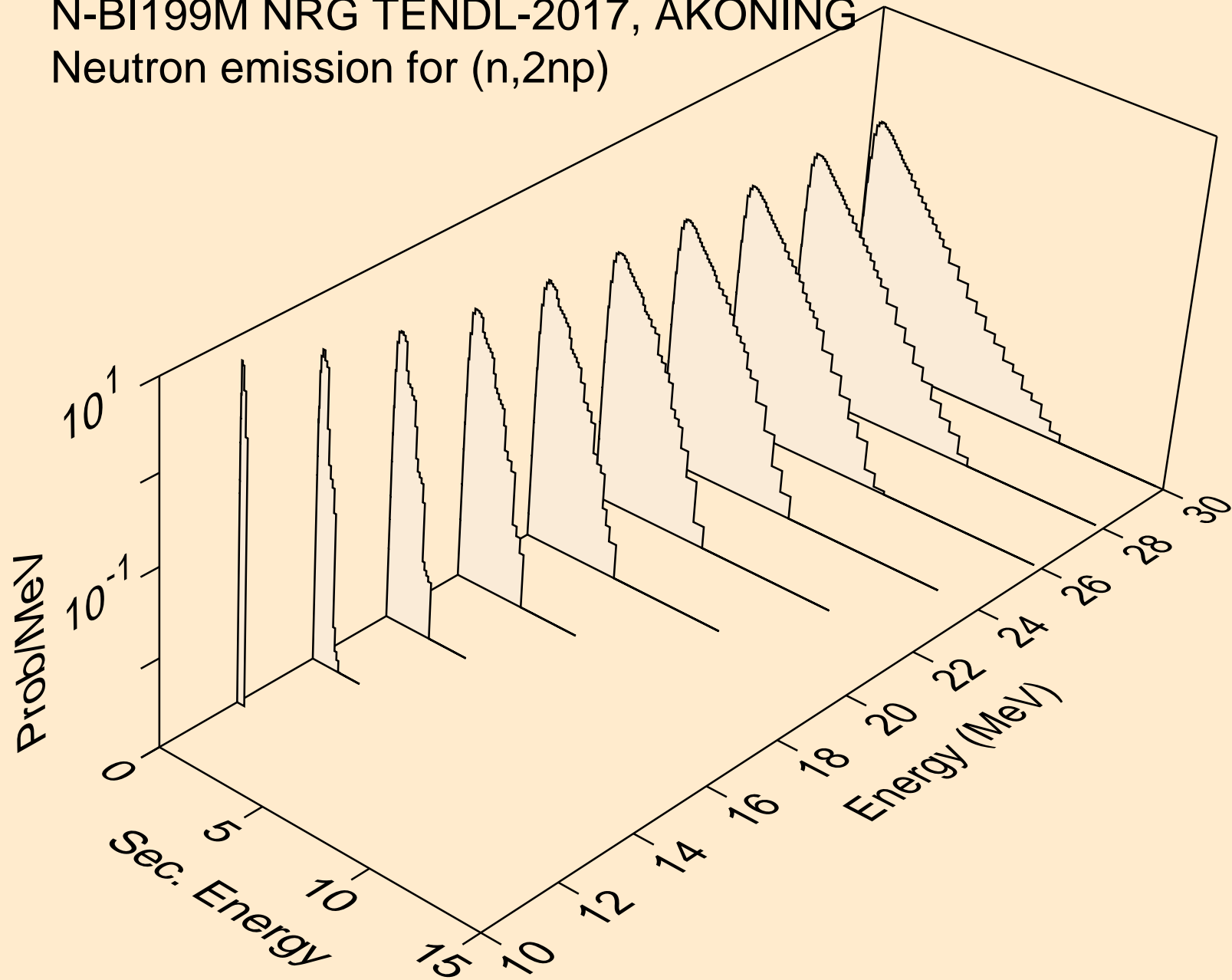
N-BI199M NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*)he3



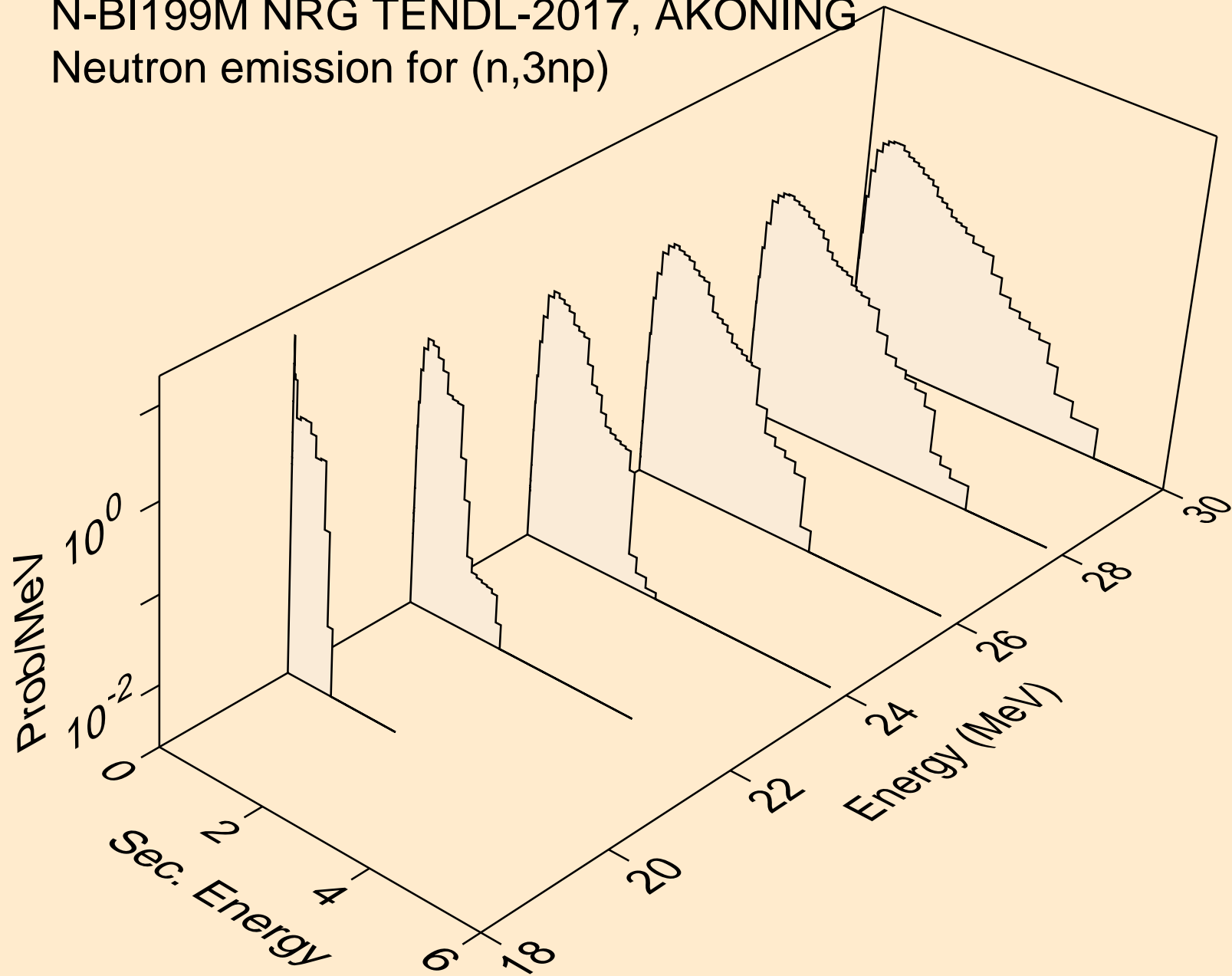
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Neutron emission for (n,4n)



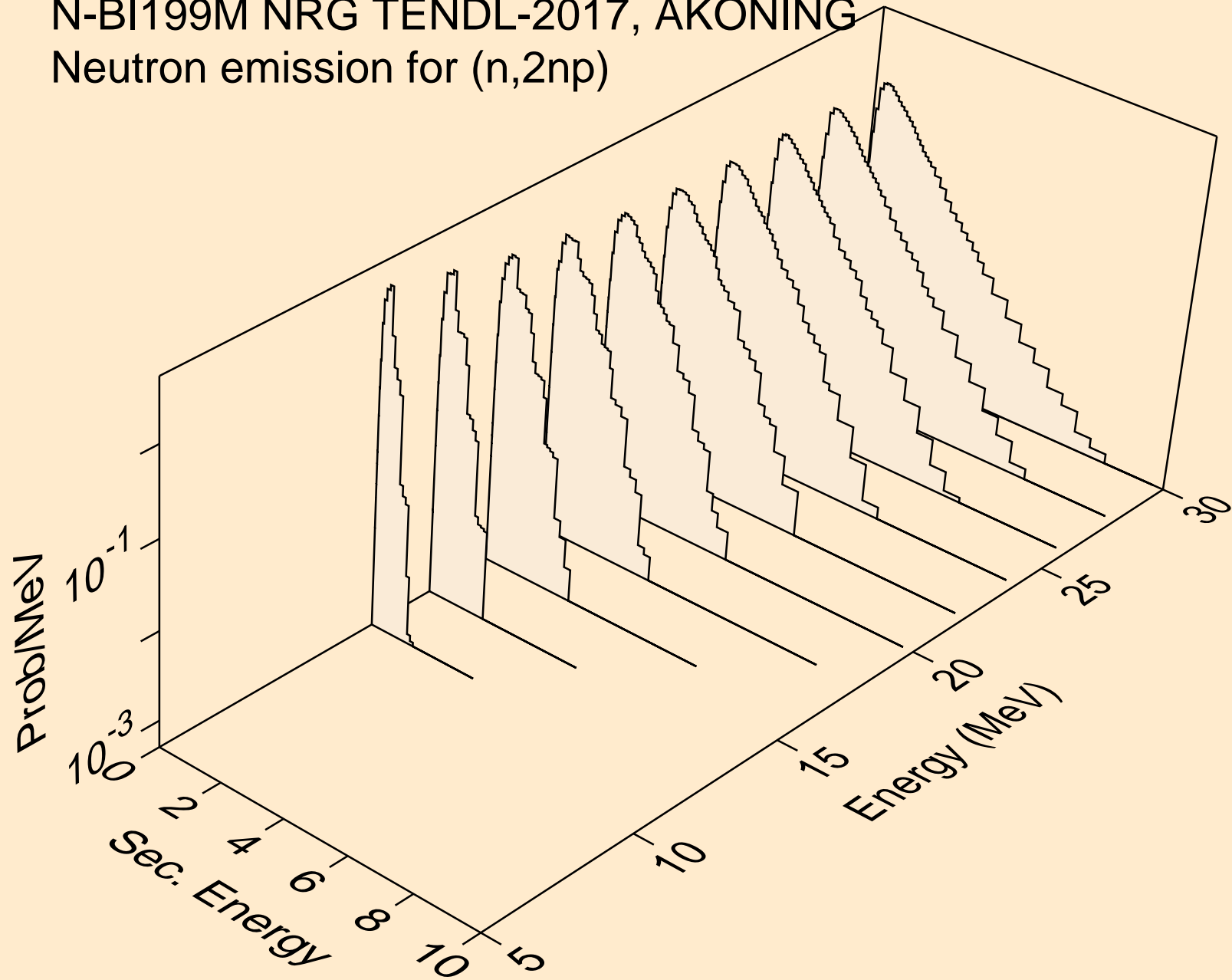
N-BI199M NRG TENDL-2017, AKONING  
Neutron emission for (n,2np)



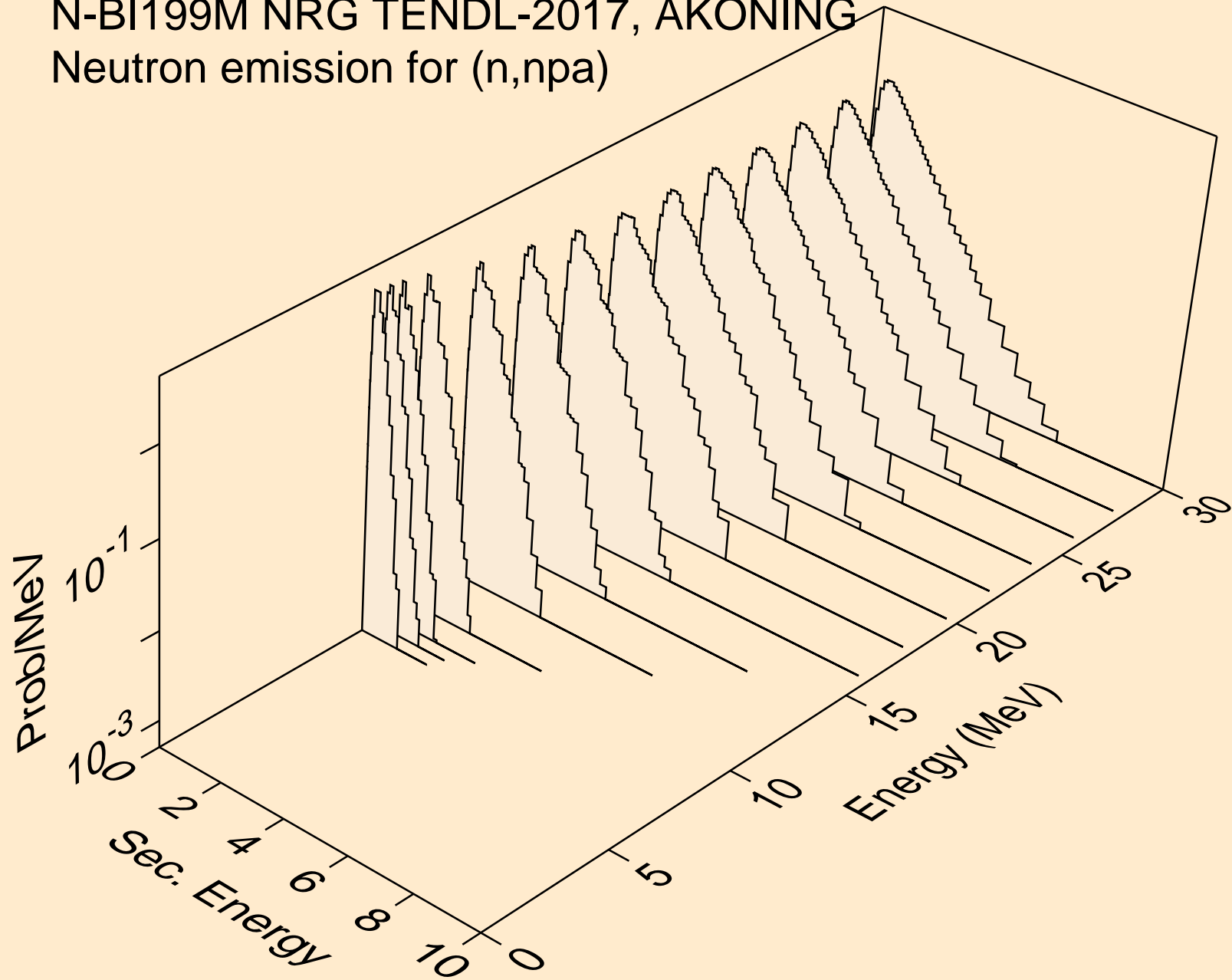
N-BI199M NRG TENDL-2017, AKONING  
Neutron emission for (n,3np)



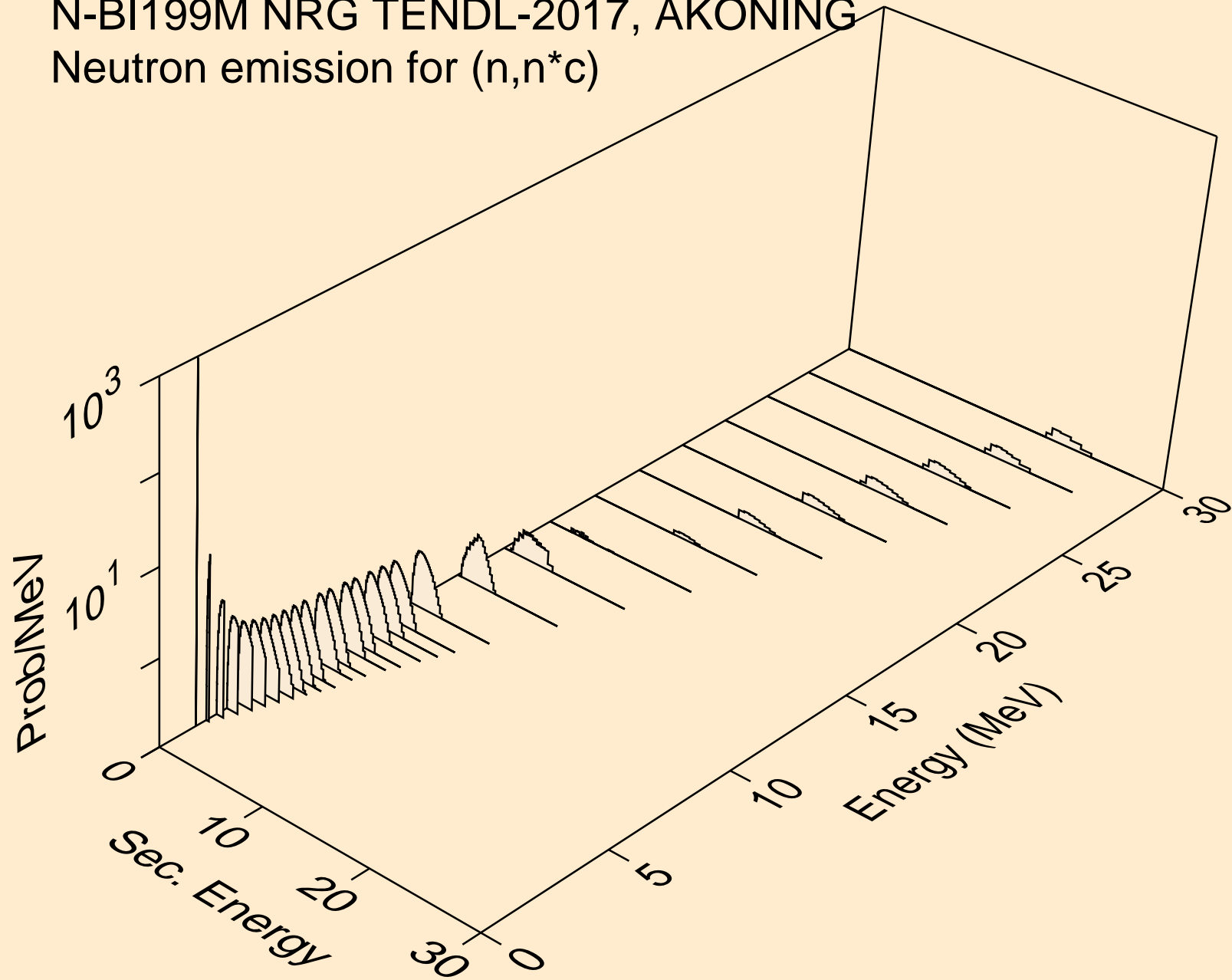
N-BI199M NRG TENDL-2017, AKONING  
Neutron emission for (n,2np)



N-BI199M NRG TENDL-2017, AKONING  
Neutron emission for (n,npa)

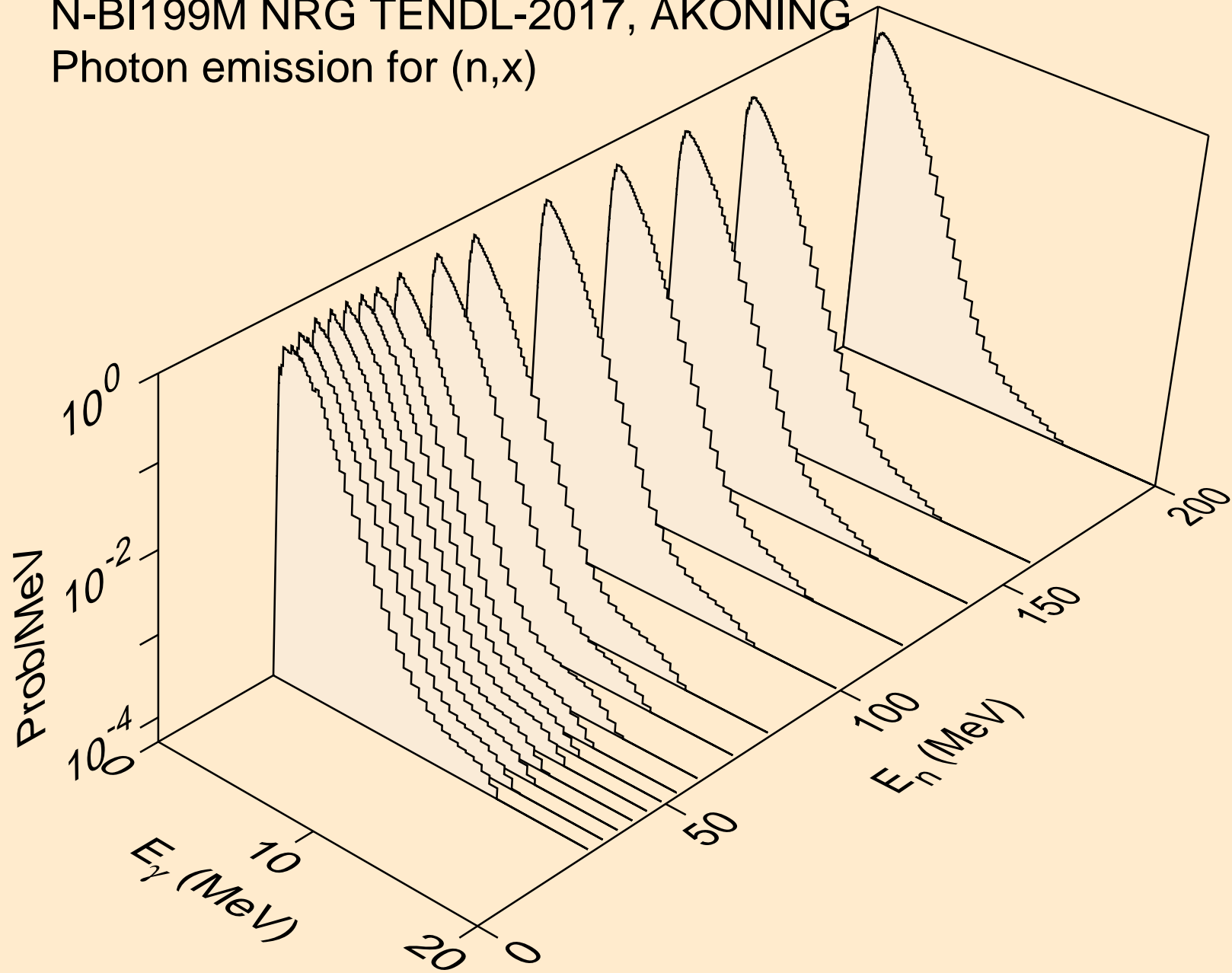


N-BI199M NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*c)

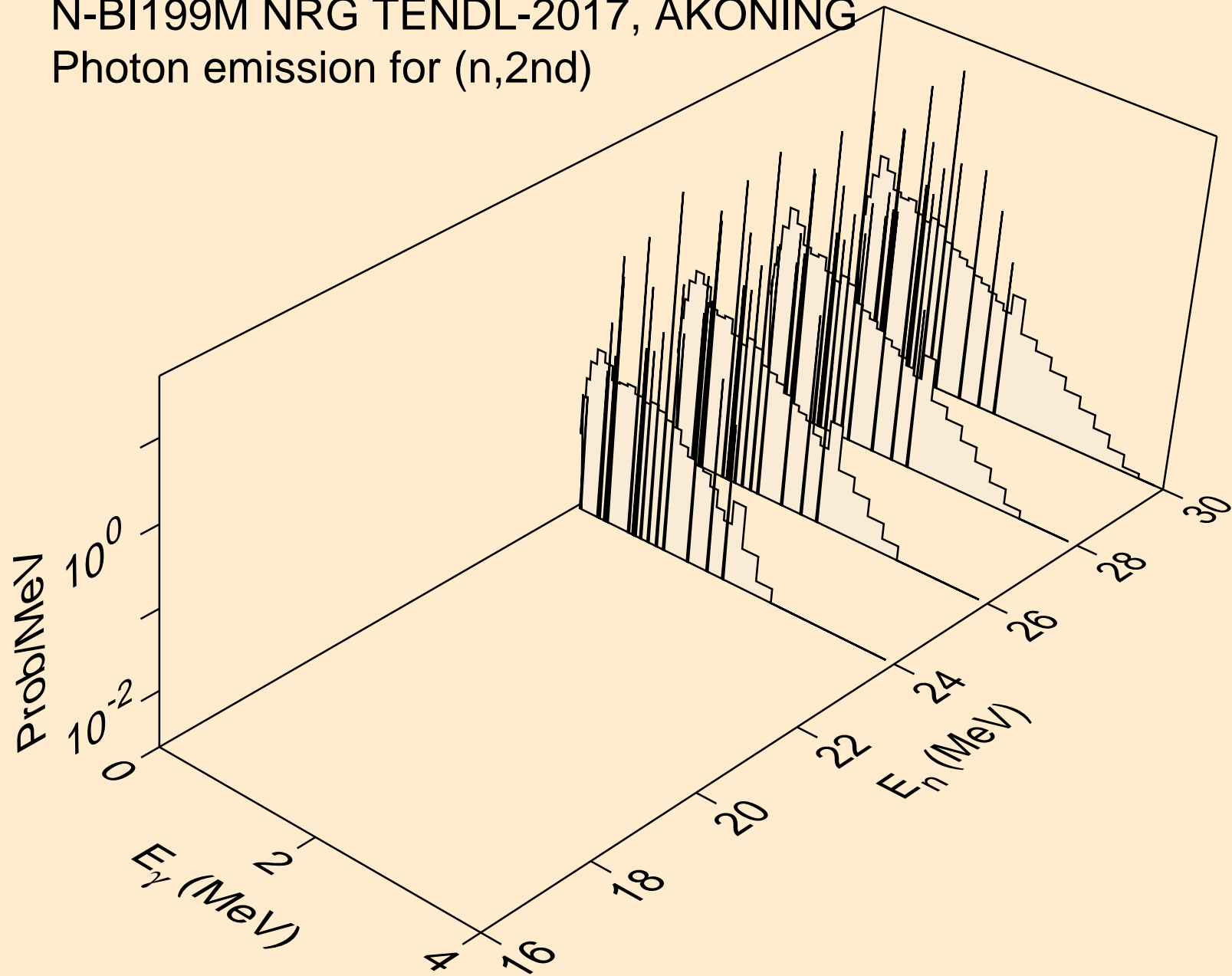




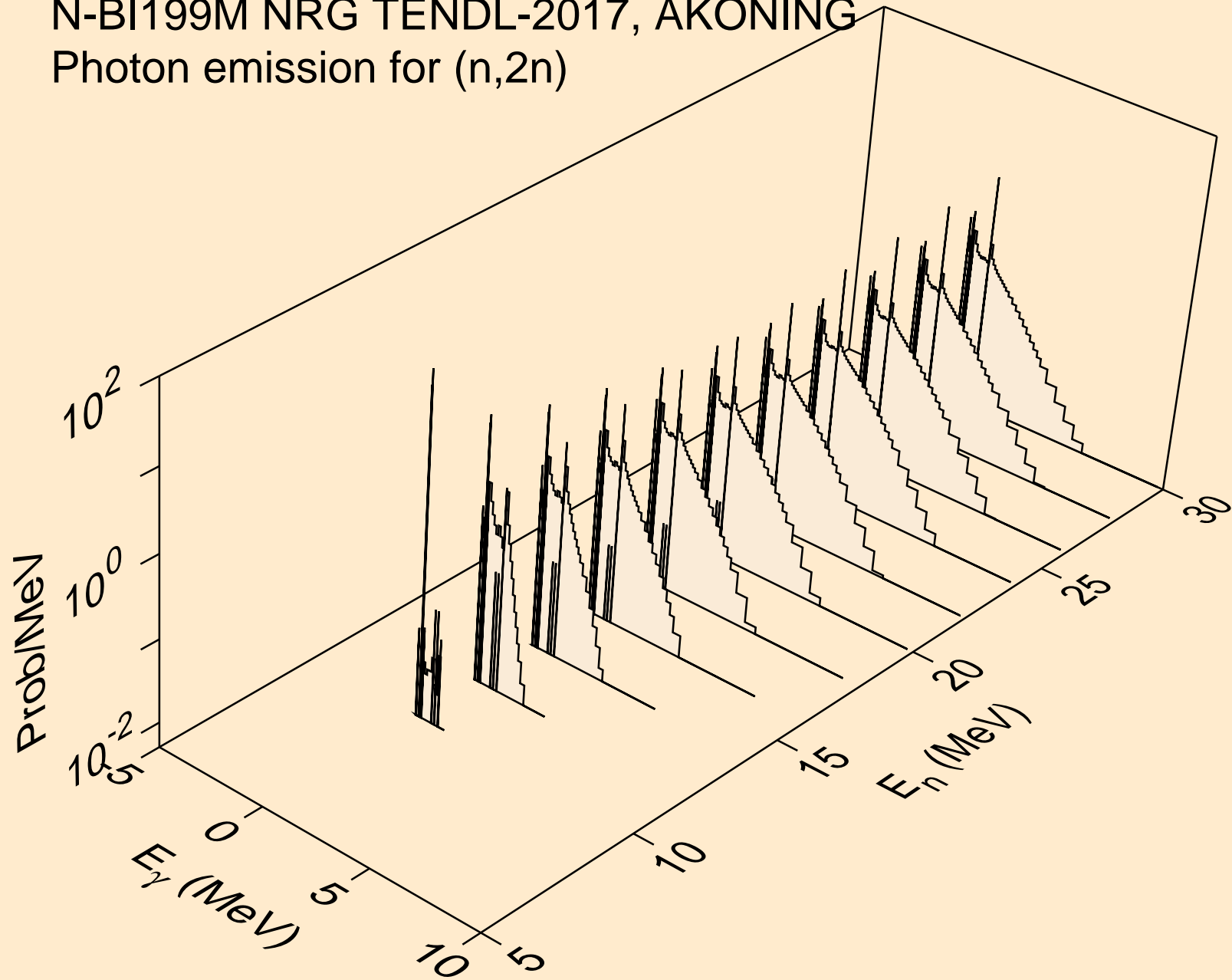
N-BI199M NRG TENDL-2017, AKONING  
Photon emission for (n,x)



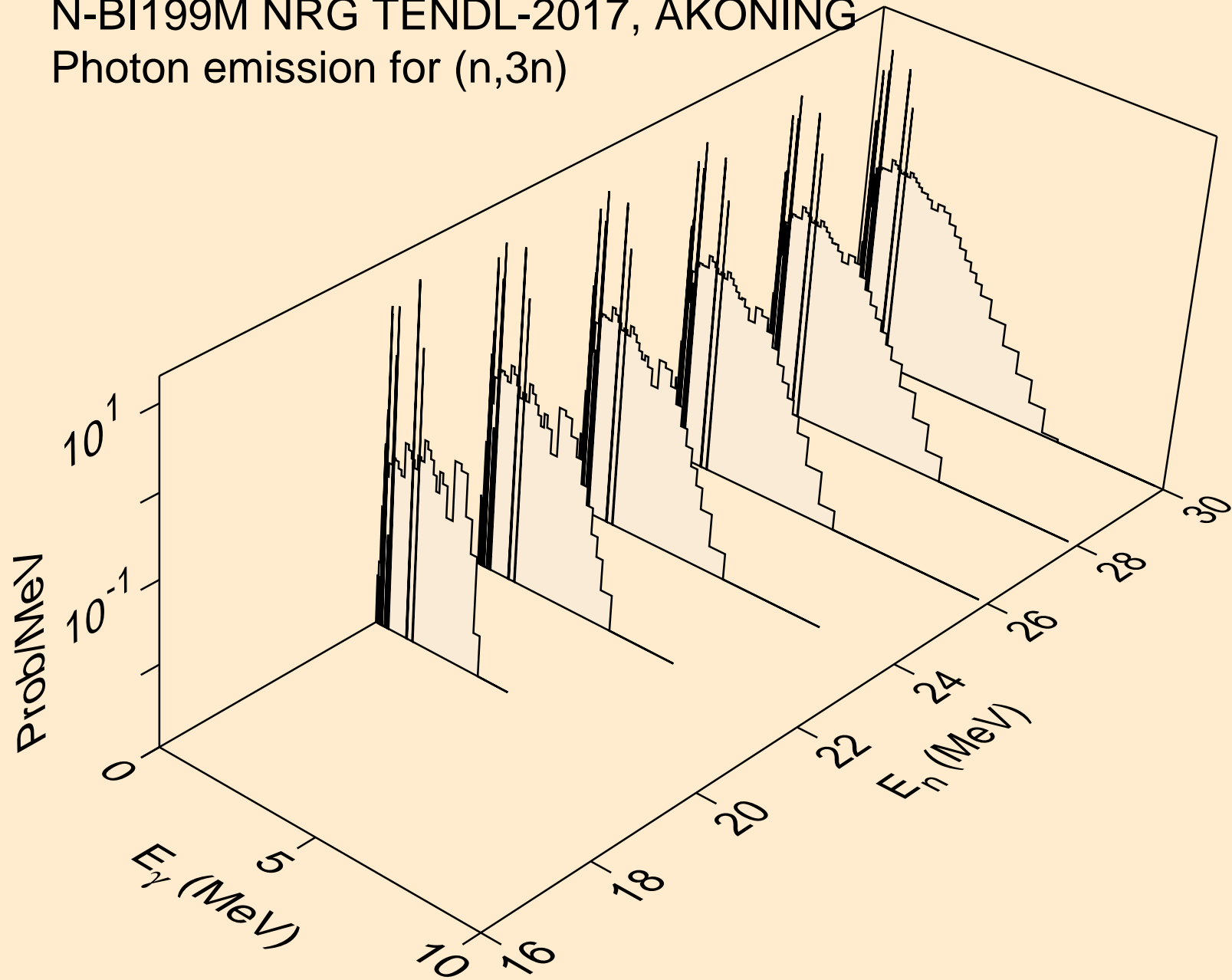
N-BI199M NRG TENDL-2017, AKONING  
Photon emission for (n,2nd)



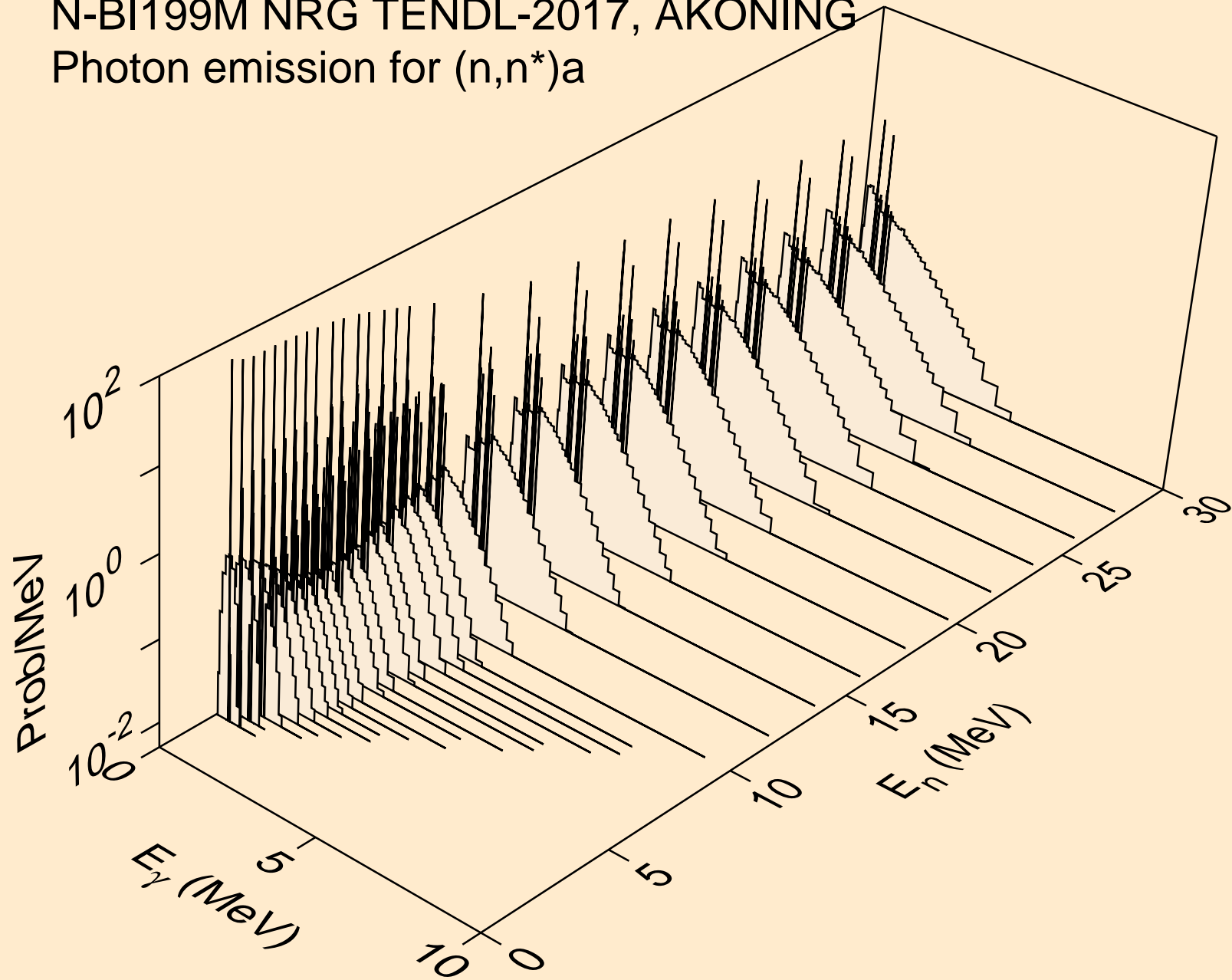
N-BI199M NRG TENDL-2017, AKONING  
Photon emission for (n,2n)



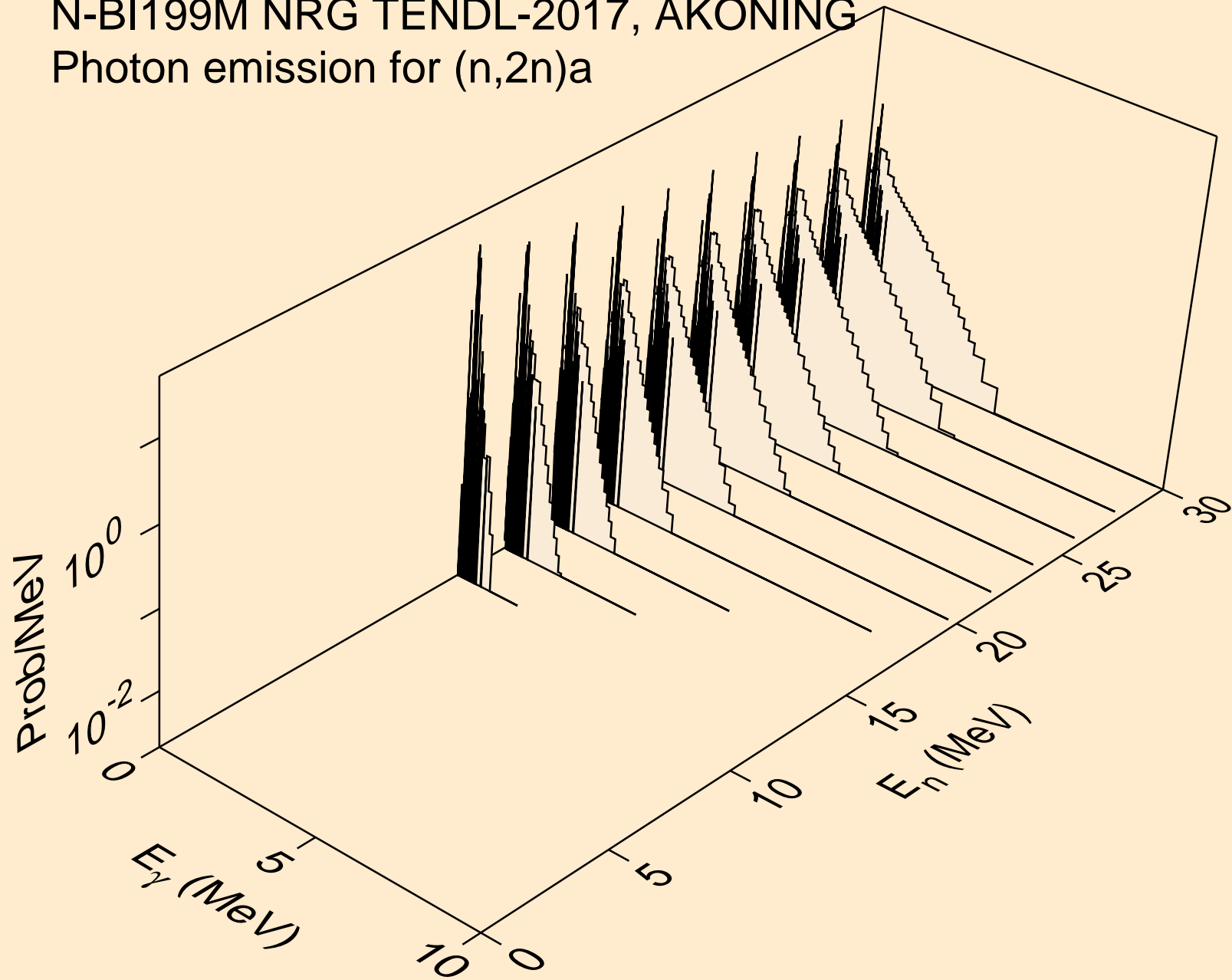
N-BI199M NRG TENDL-2017, AKONING  
Photon emission for (n,3n)



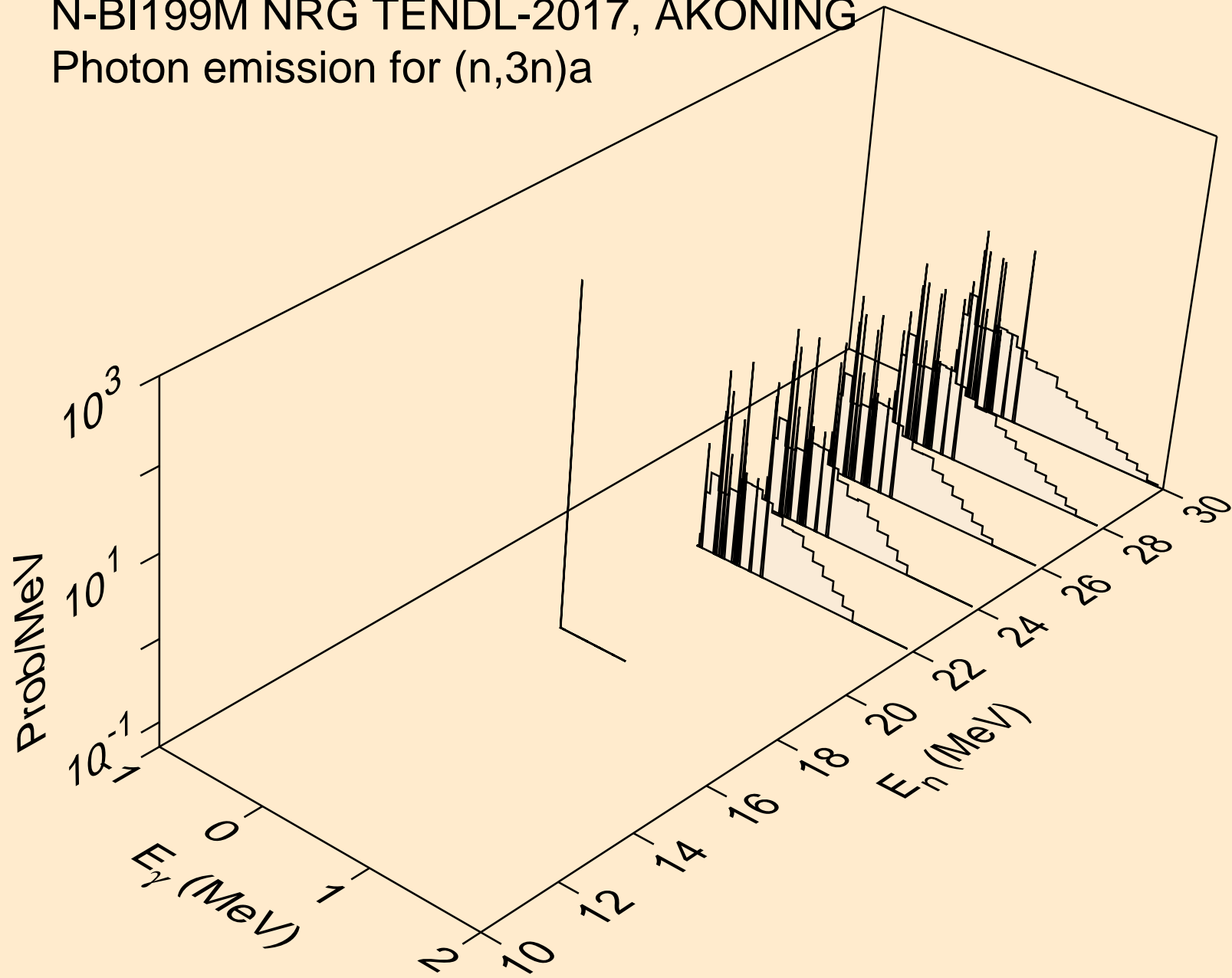
N-BI199M NRG TENDL-2017, AKONING  
Photon emission for (n,n\*)a



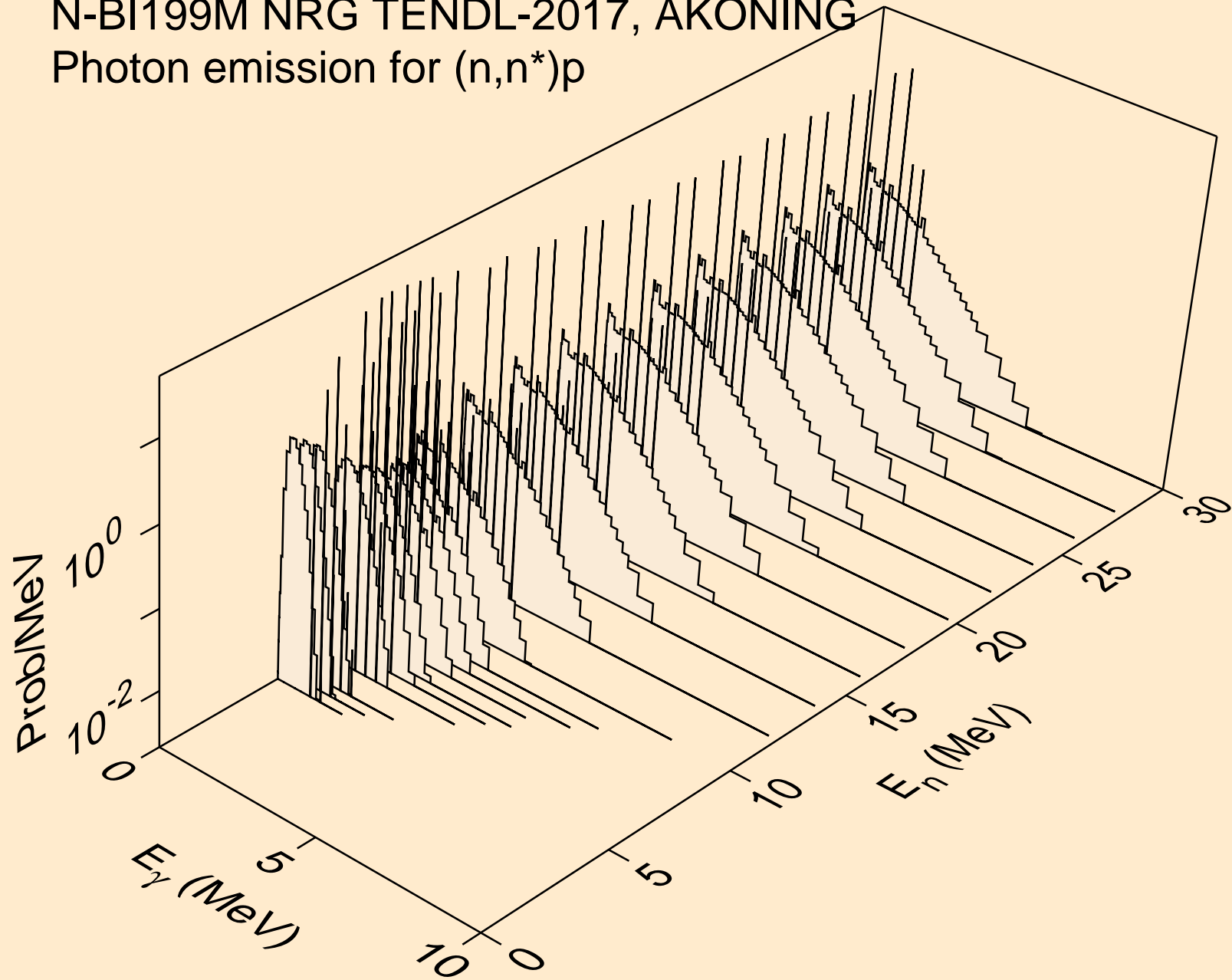
N-BI199M NRG TENDL-2017, AKONING  
Photon emission for (n,2n)a



N-BI199M NRG TENDL-2017, AKONING  
Photon emission for (n,3n)a

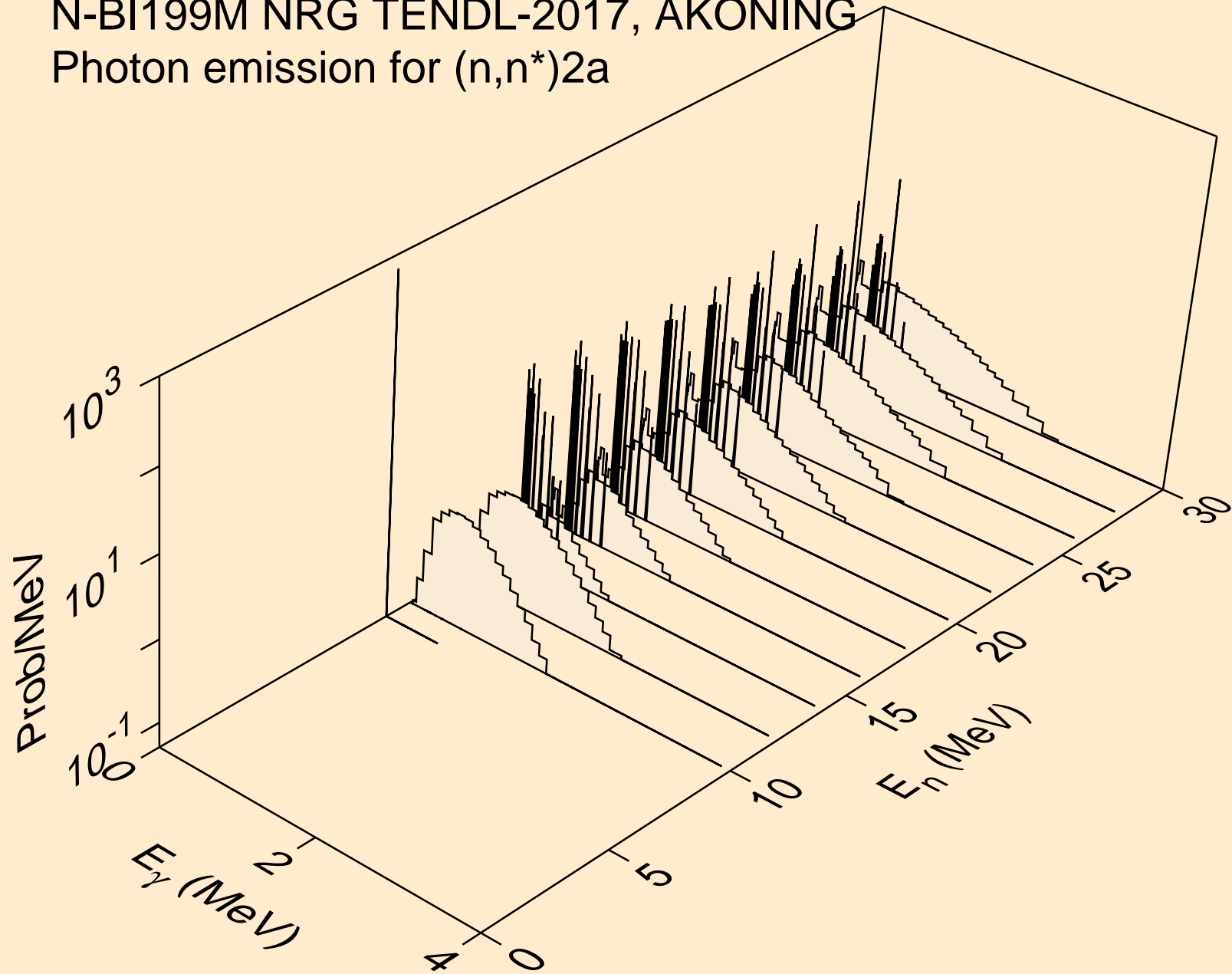


N-BI199M NRG TENDL-2017, AKONING  
Photon emission for (n,n\*)p

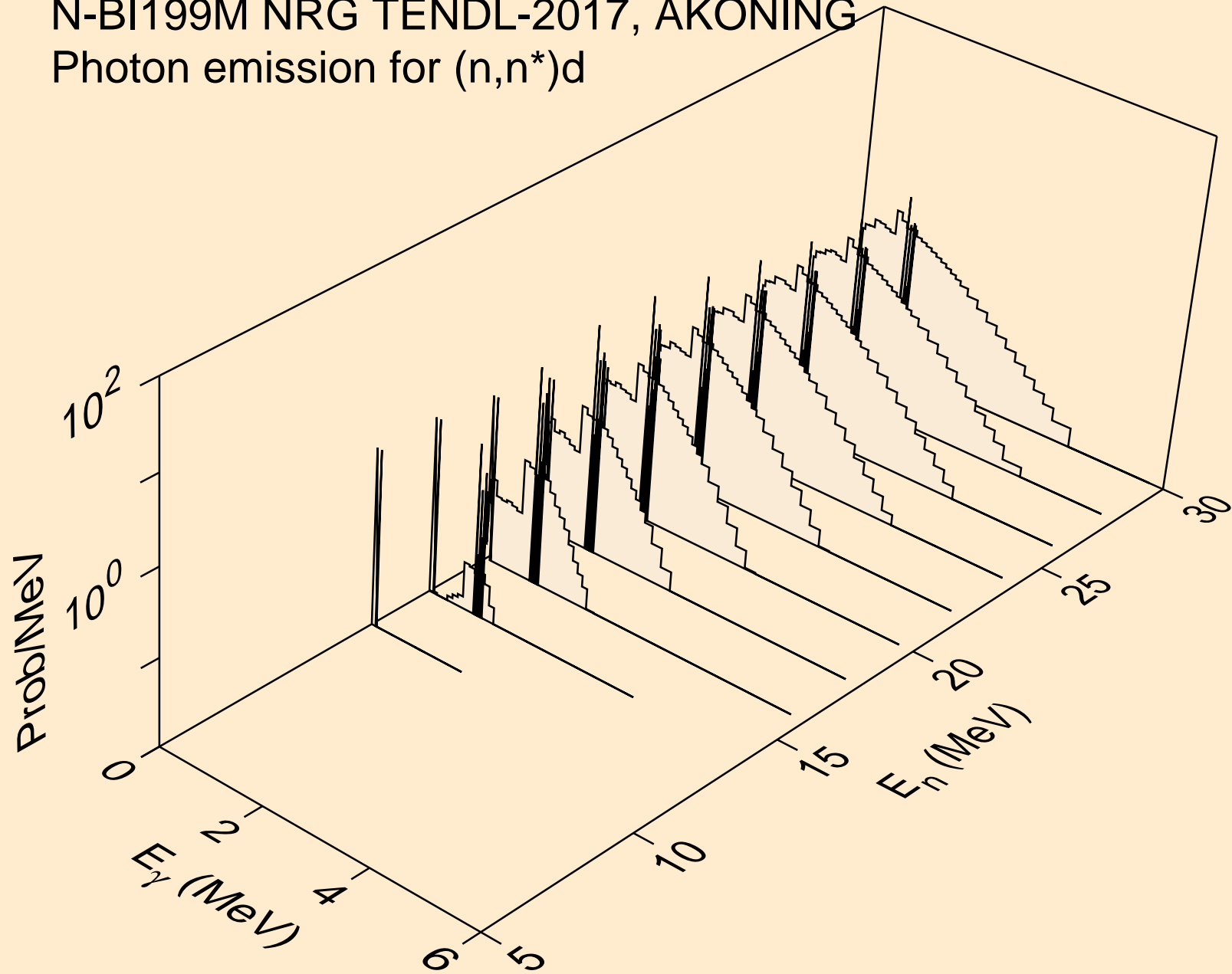




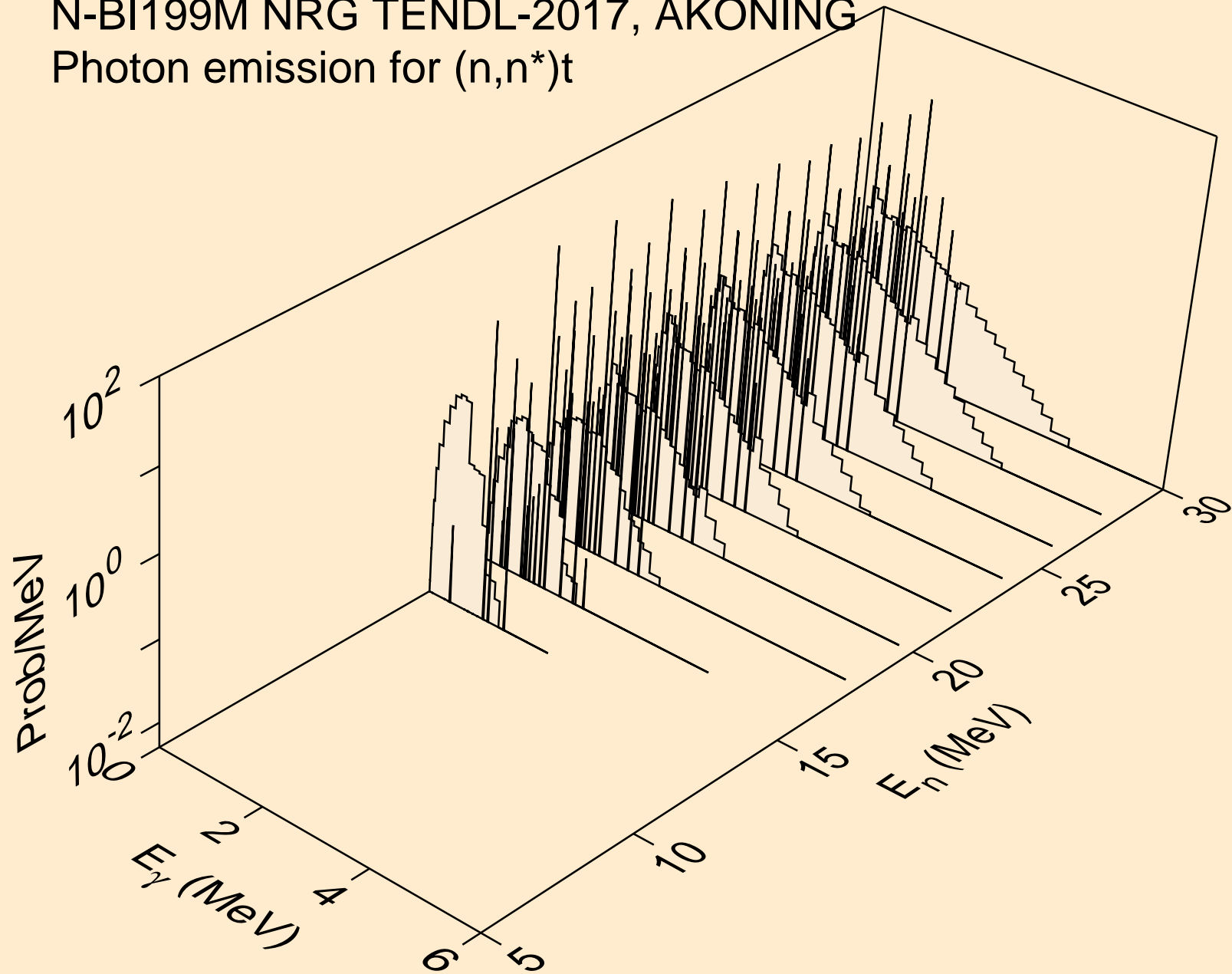
N-BI199M NRG TENDL-2017, AKONING  
Photon emission for (n,n\*)2a



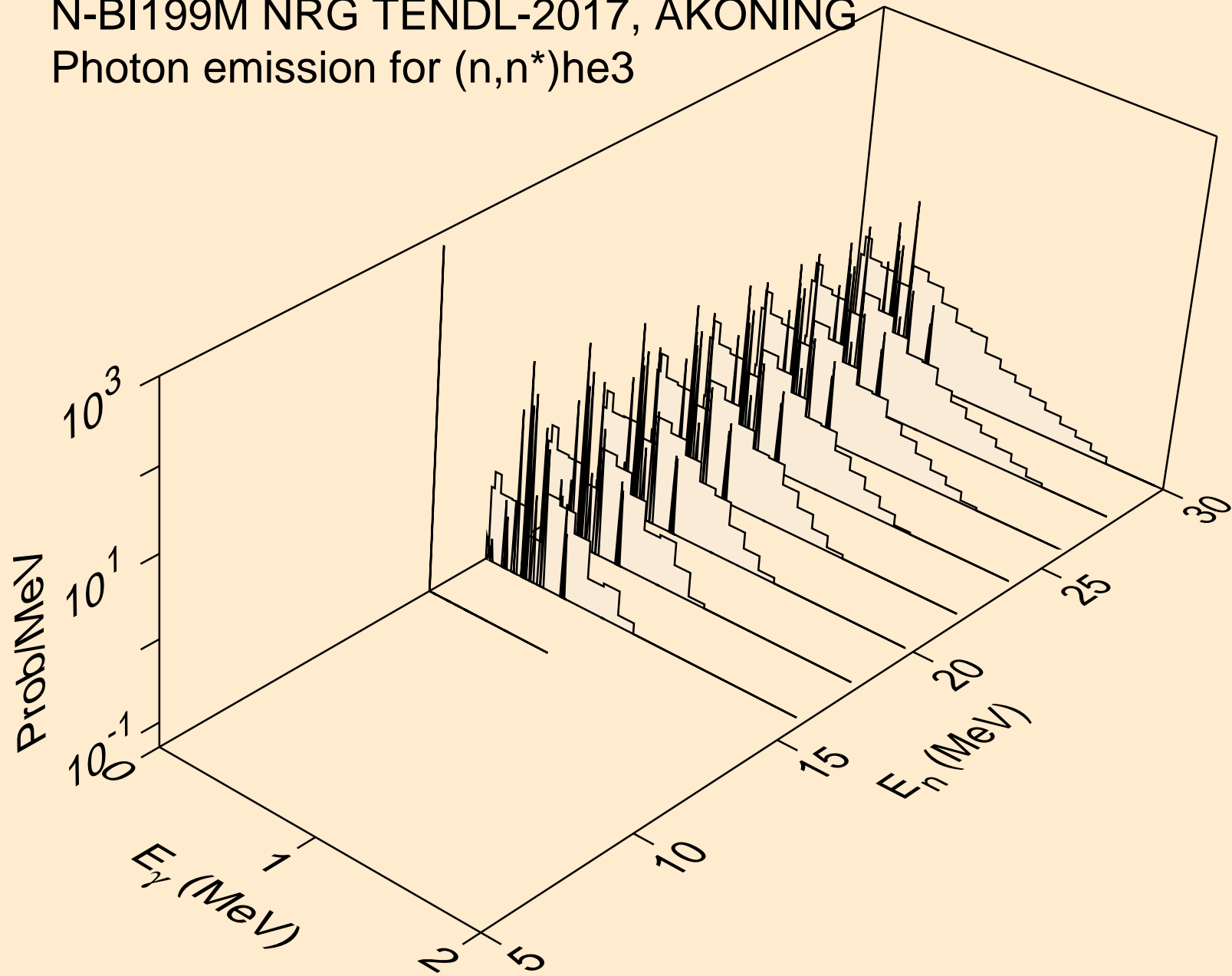
N-BI199M NRG TENDL-2017, AKONING  
Photon emission for (n,n\*)d



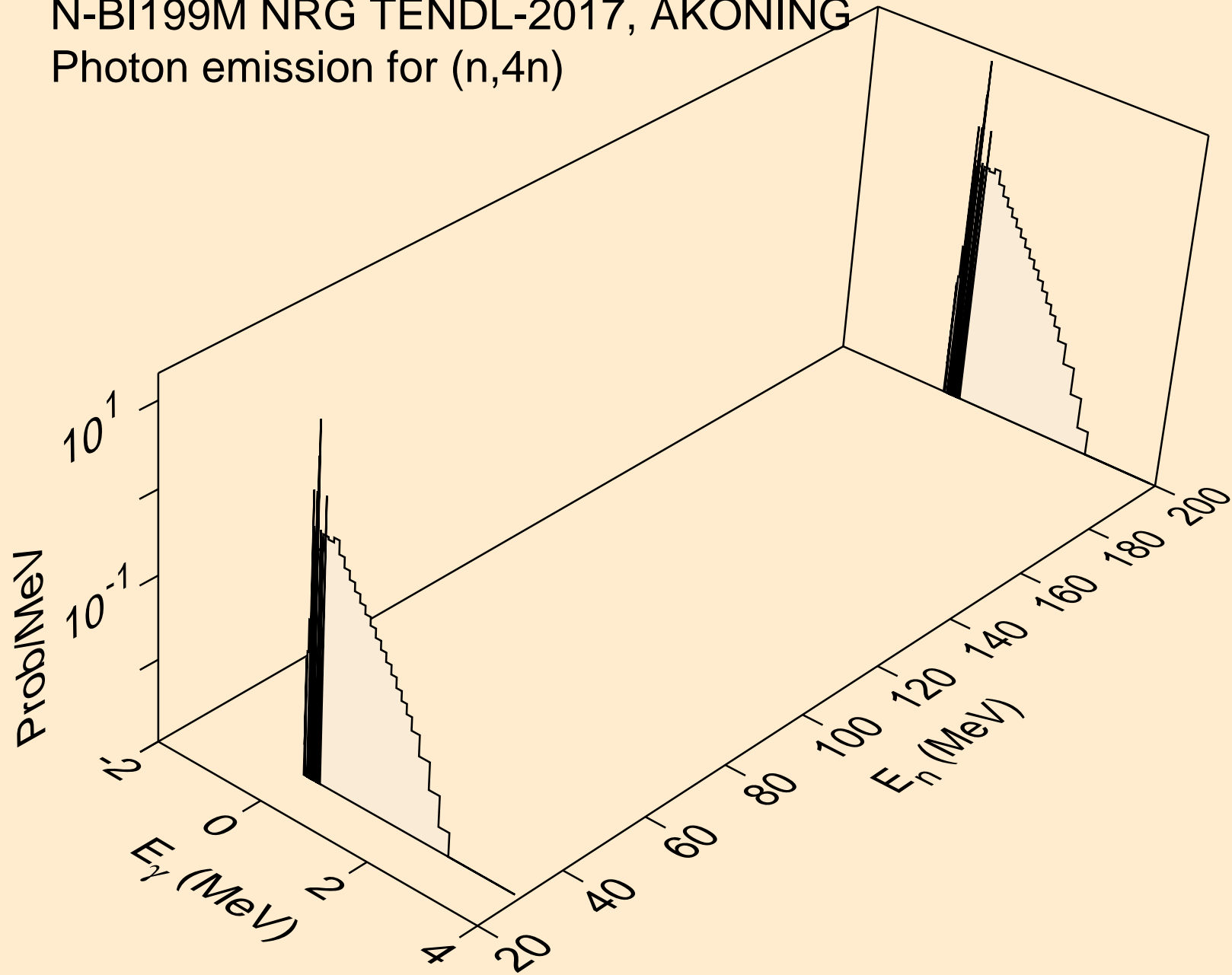
N-BI199M NRG TENDL-2017, AKONING  
Photon emission for (n,n\*)t



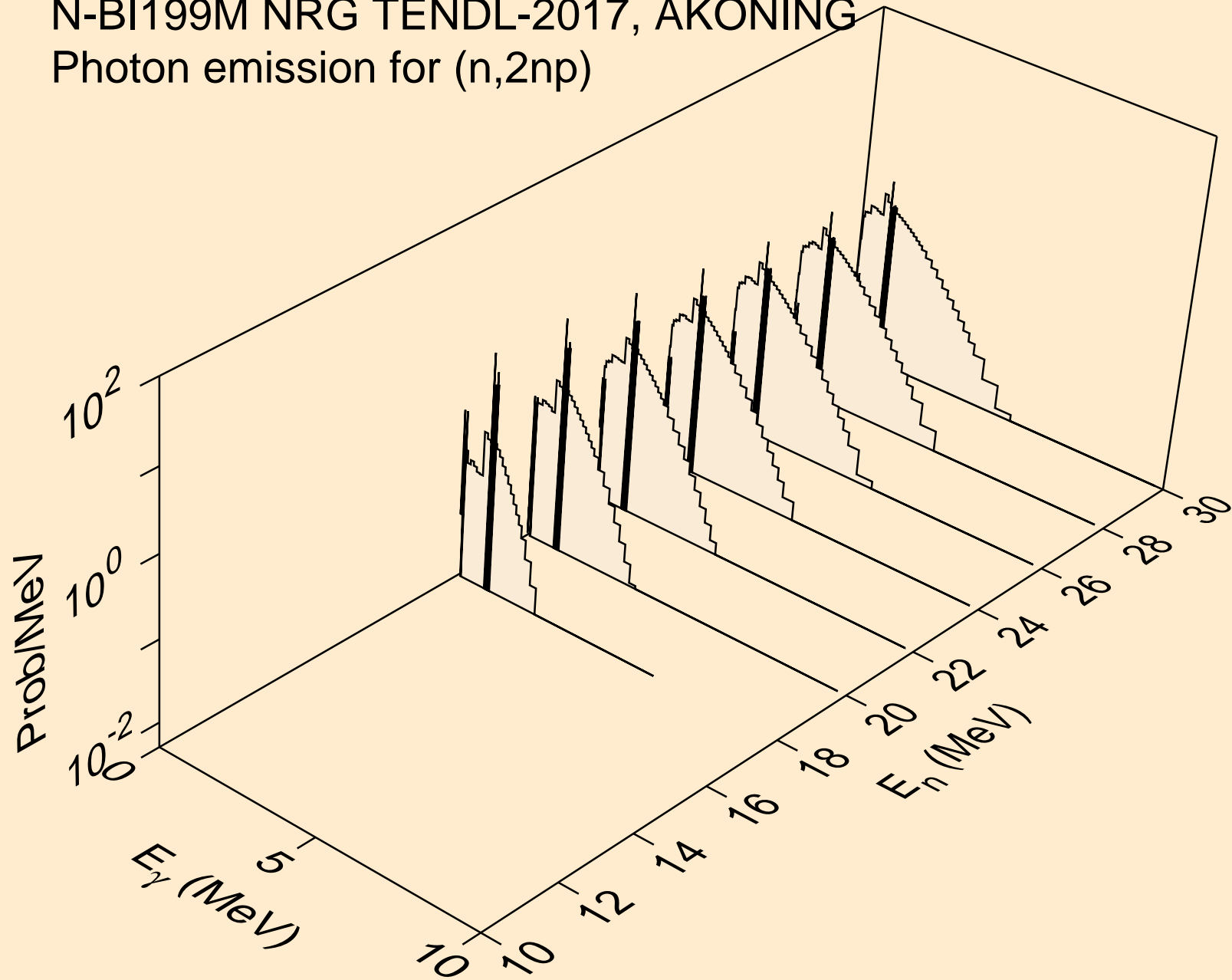
N-BI199M NRG TENDL-2017, AKONING  
Photon emission for (n,n\*)he3



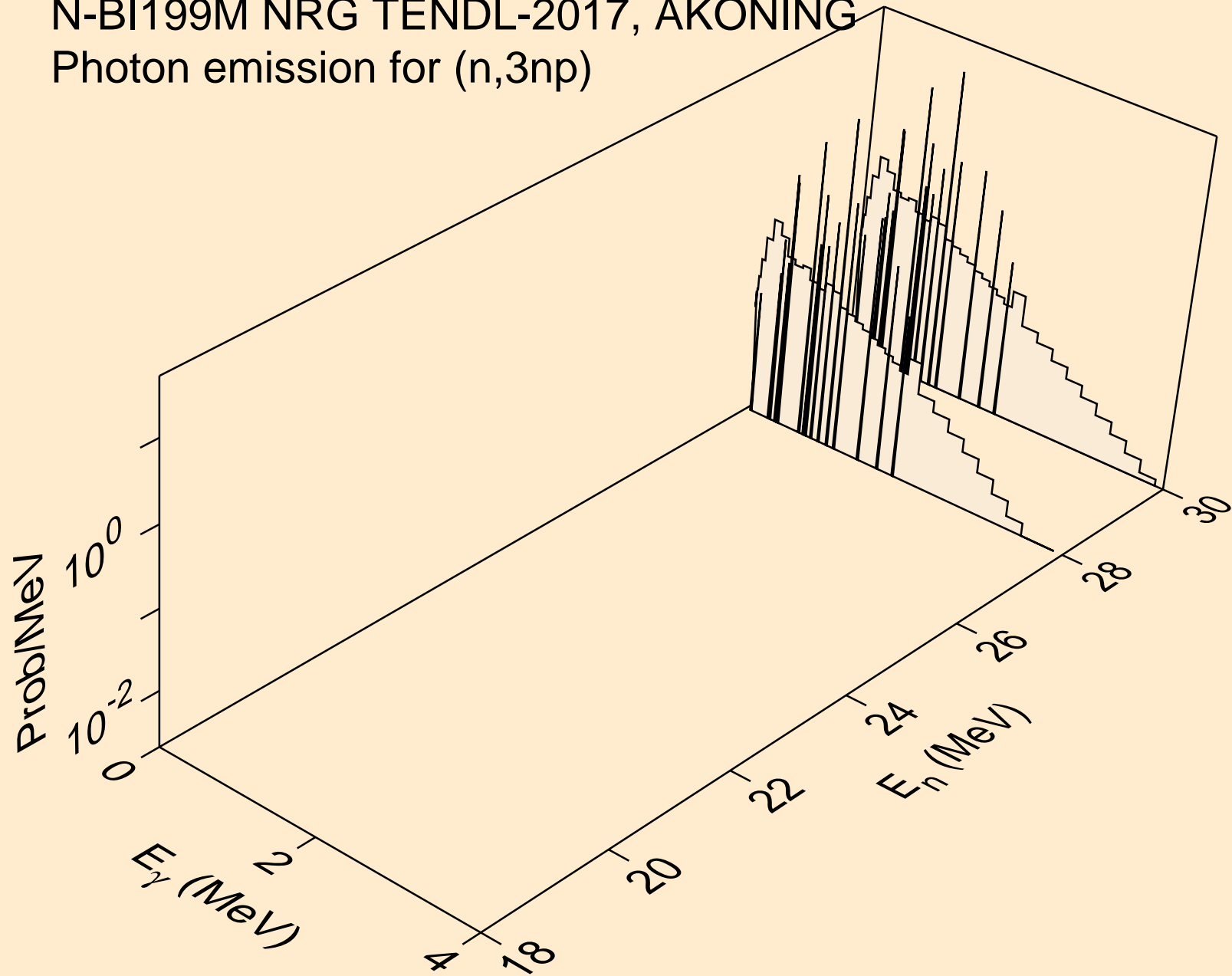
N-BI199M NRG TENDL-2017, AKONING  
Photon emission for (n,4n)



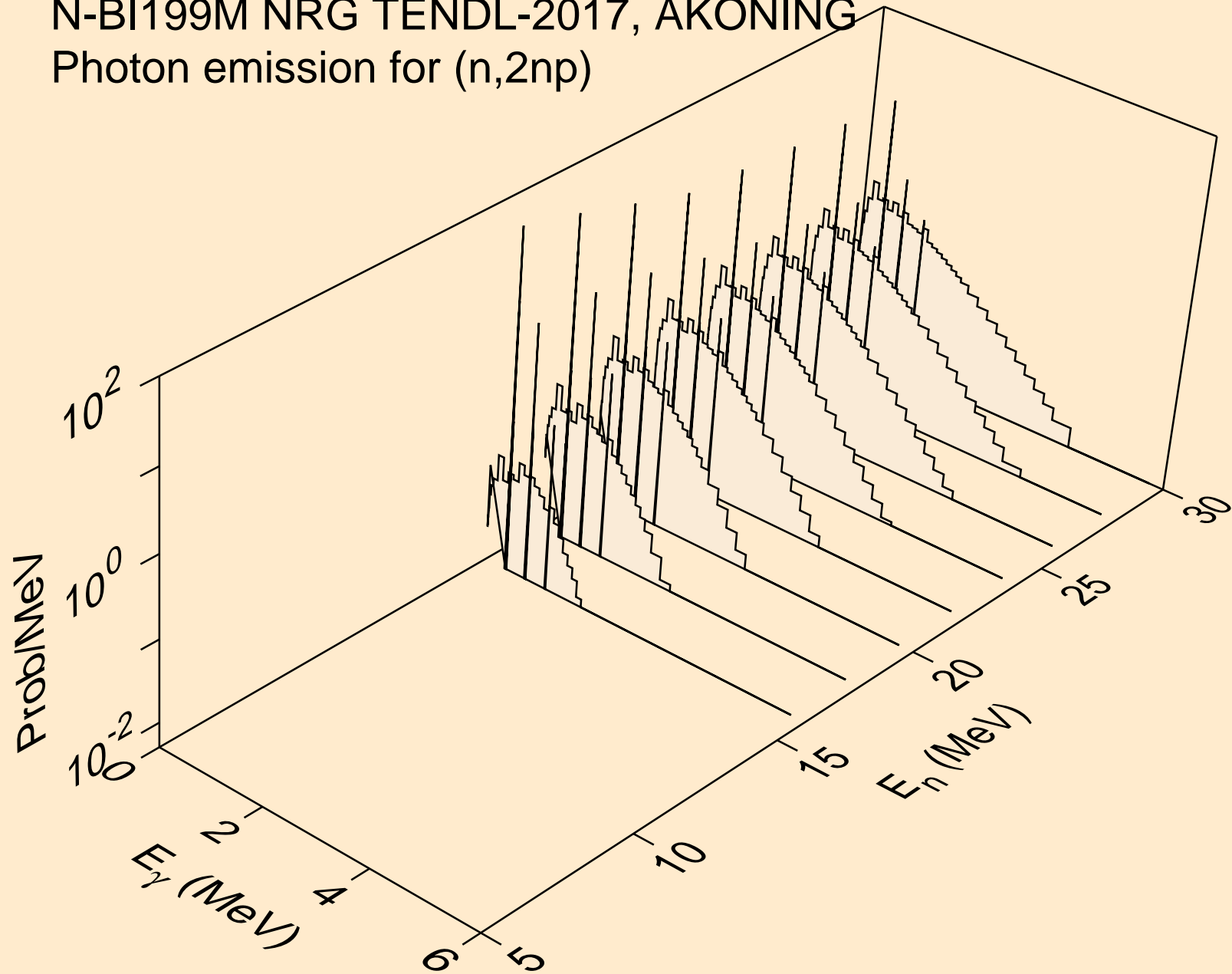
N-BI199M NRG TENDL-2017, AKONING  
Photon emission for (n,2np)



N-BI199M NRG TENDL-2017, AKONING  
Photon emission for (n,3np)

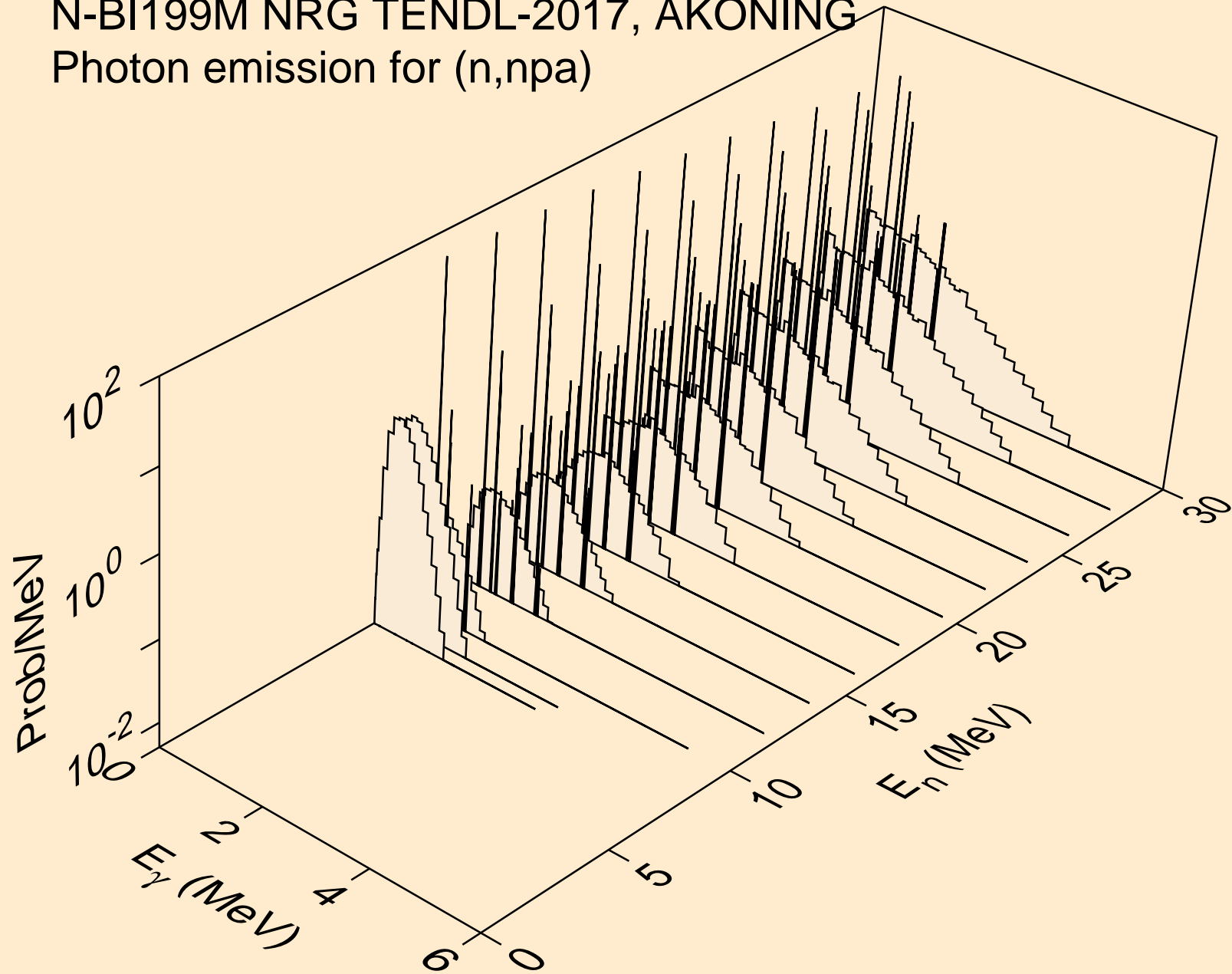


N-BI199M NRG TENDL-2017, AKONING  
Photon emission for (n,2np)

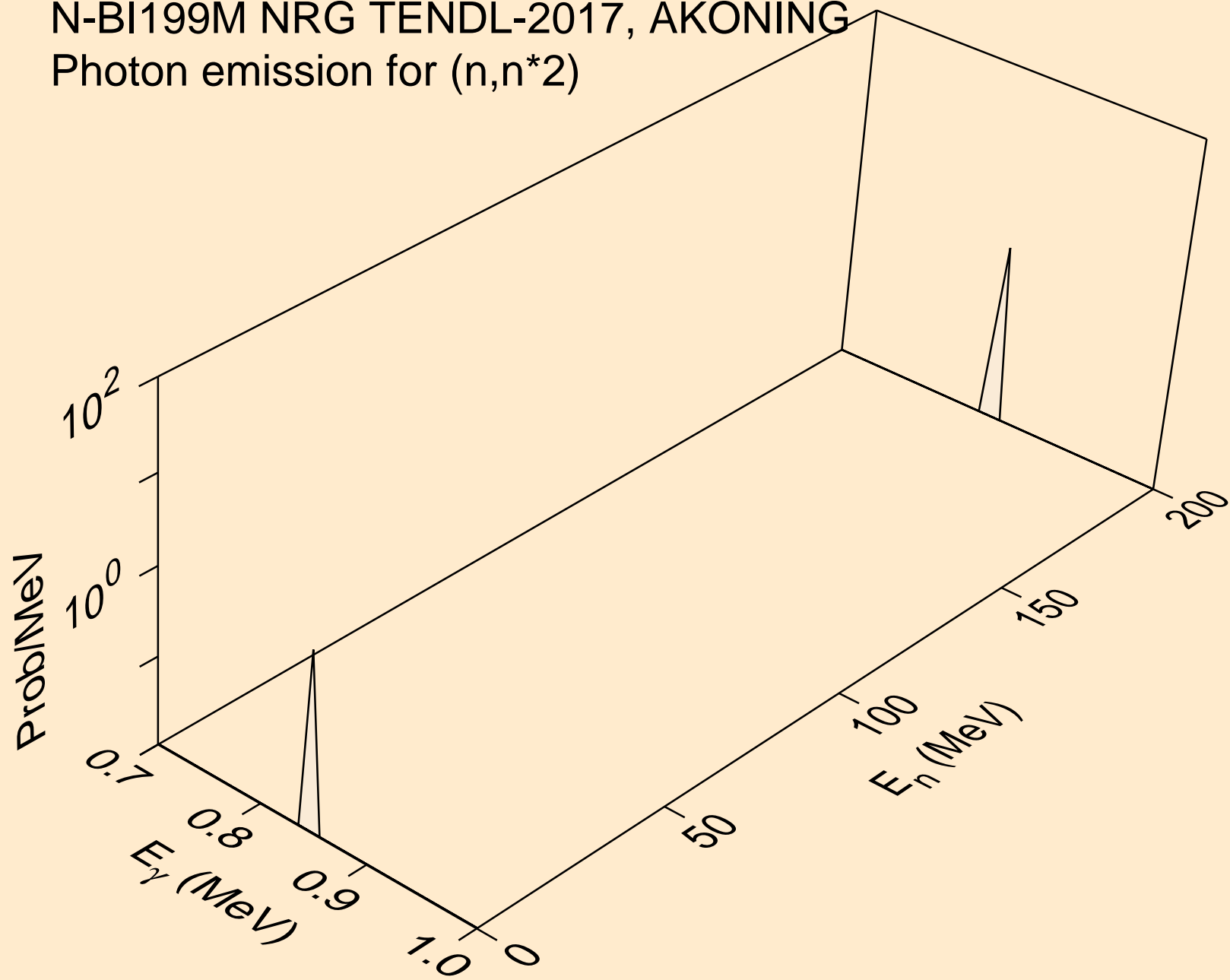




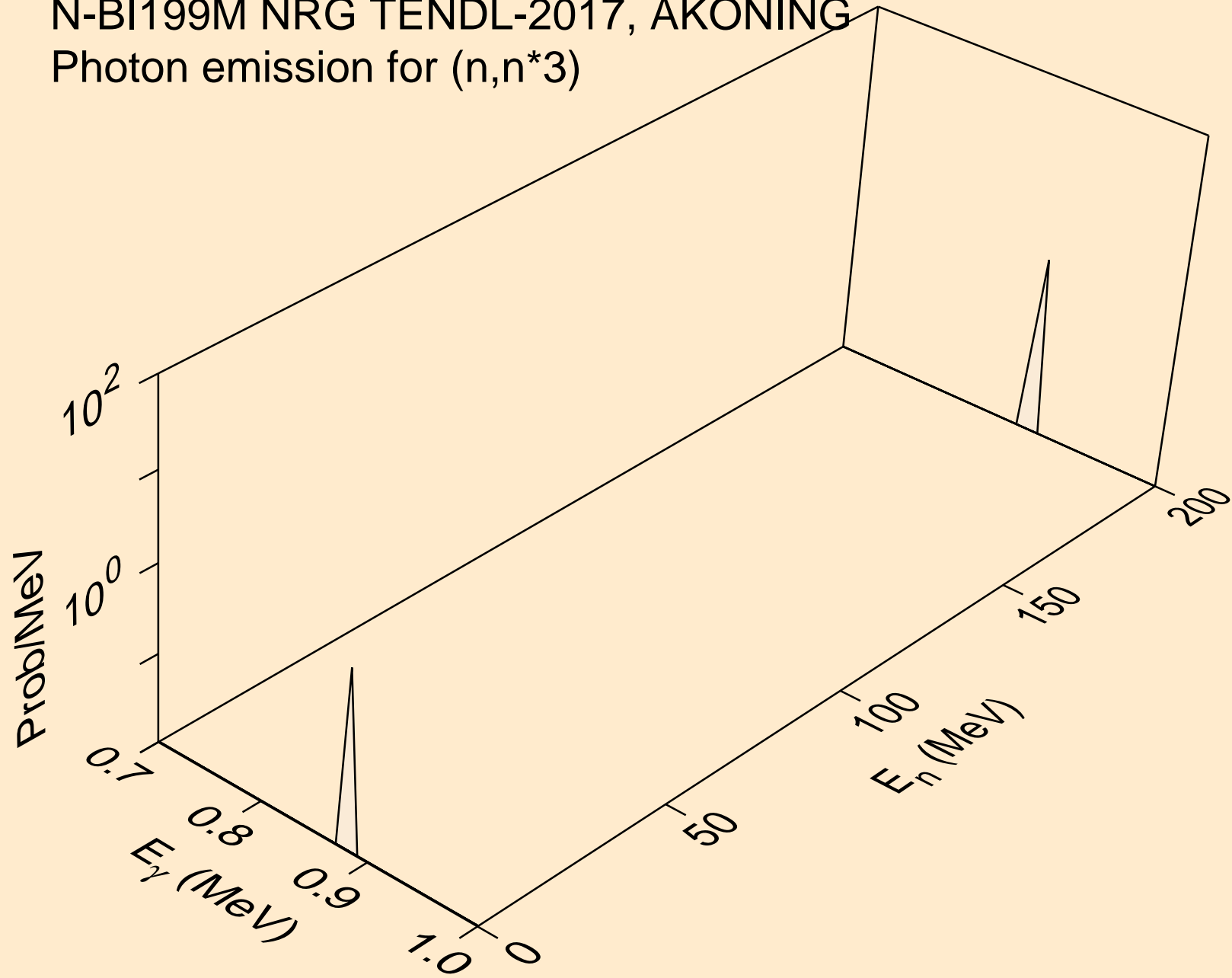
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Photon emission for (n,npa)



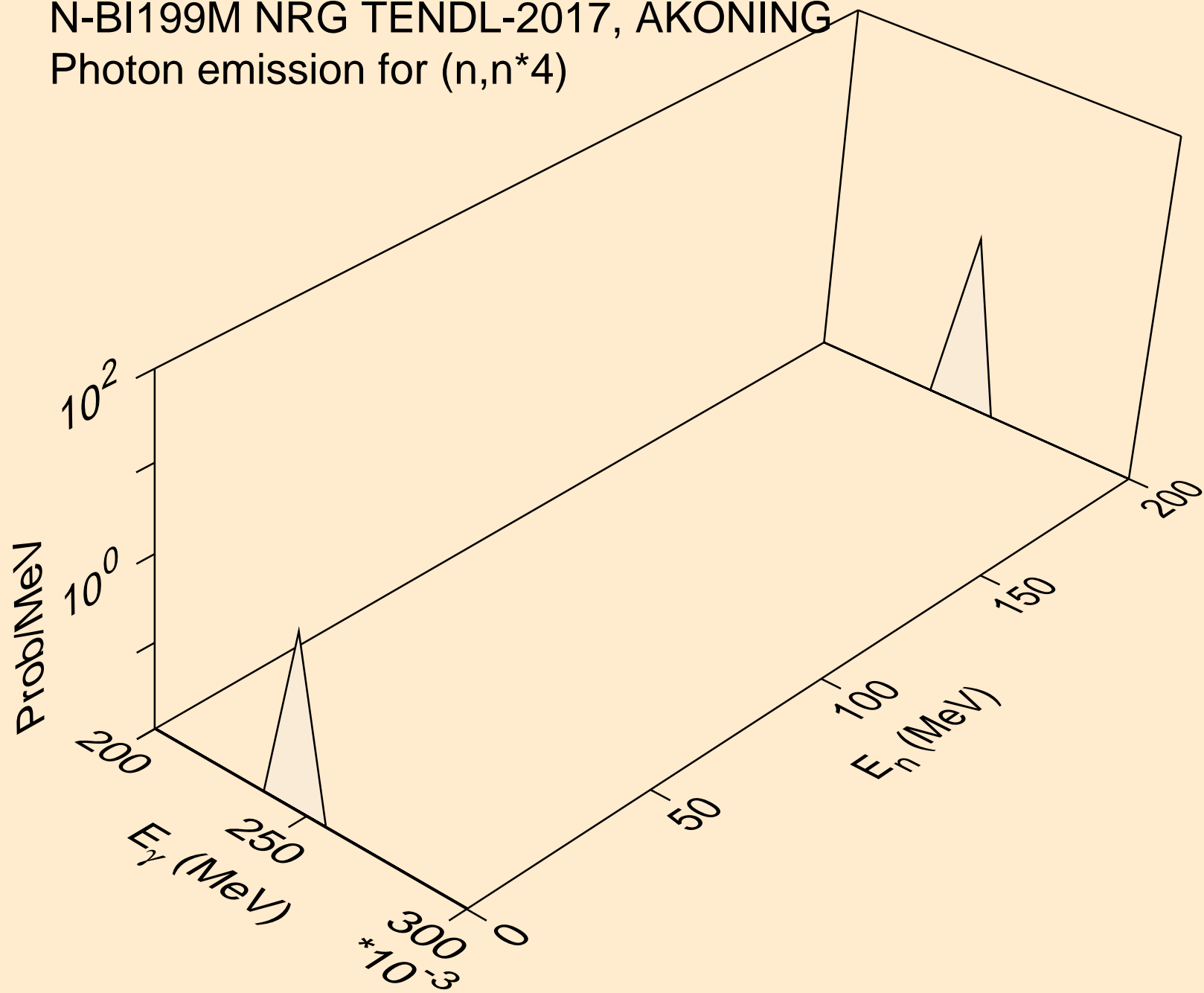
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Photon emission for (n,n\*2)



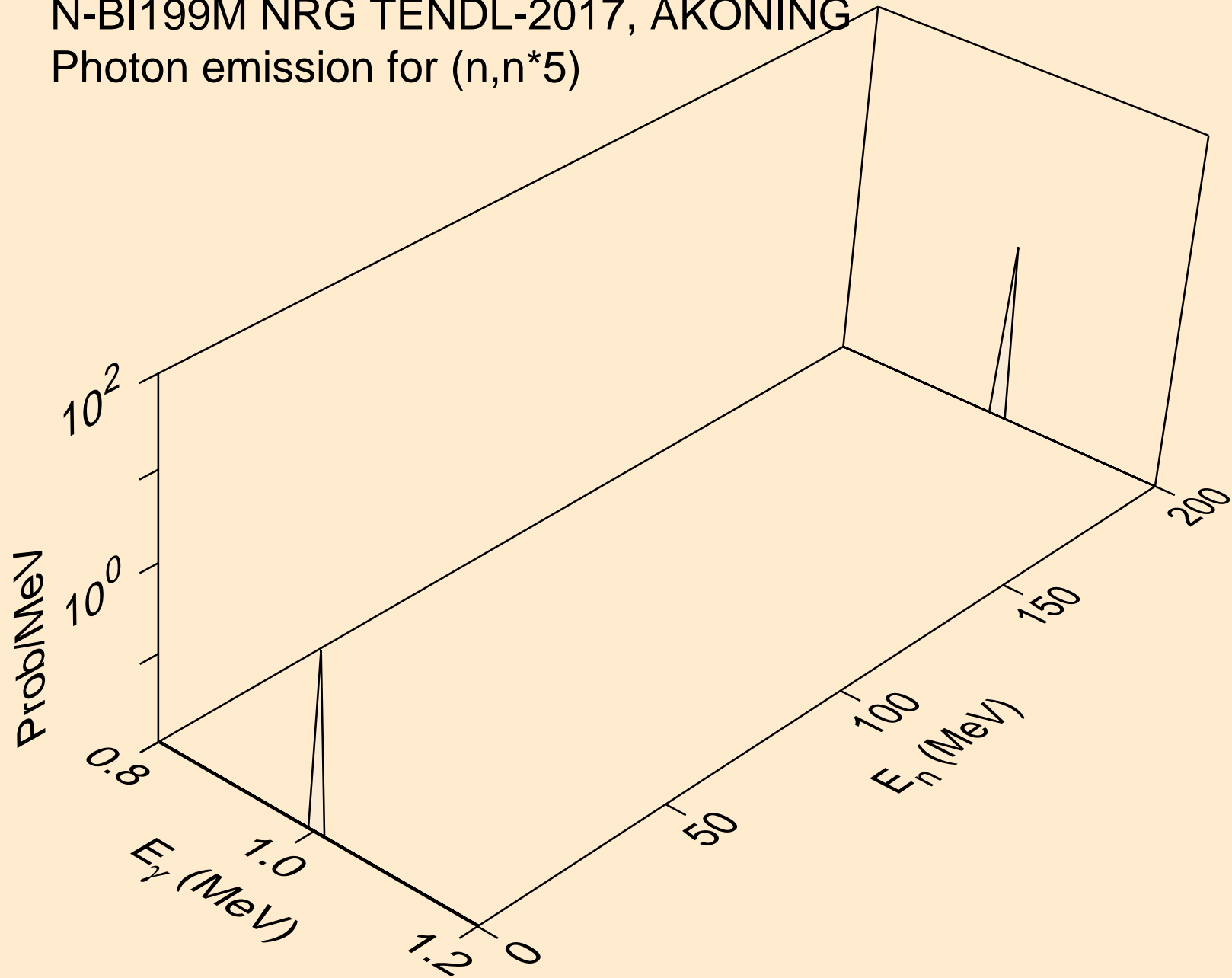
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Photon emission for (n,n\*3)



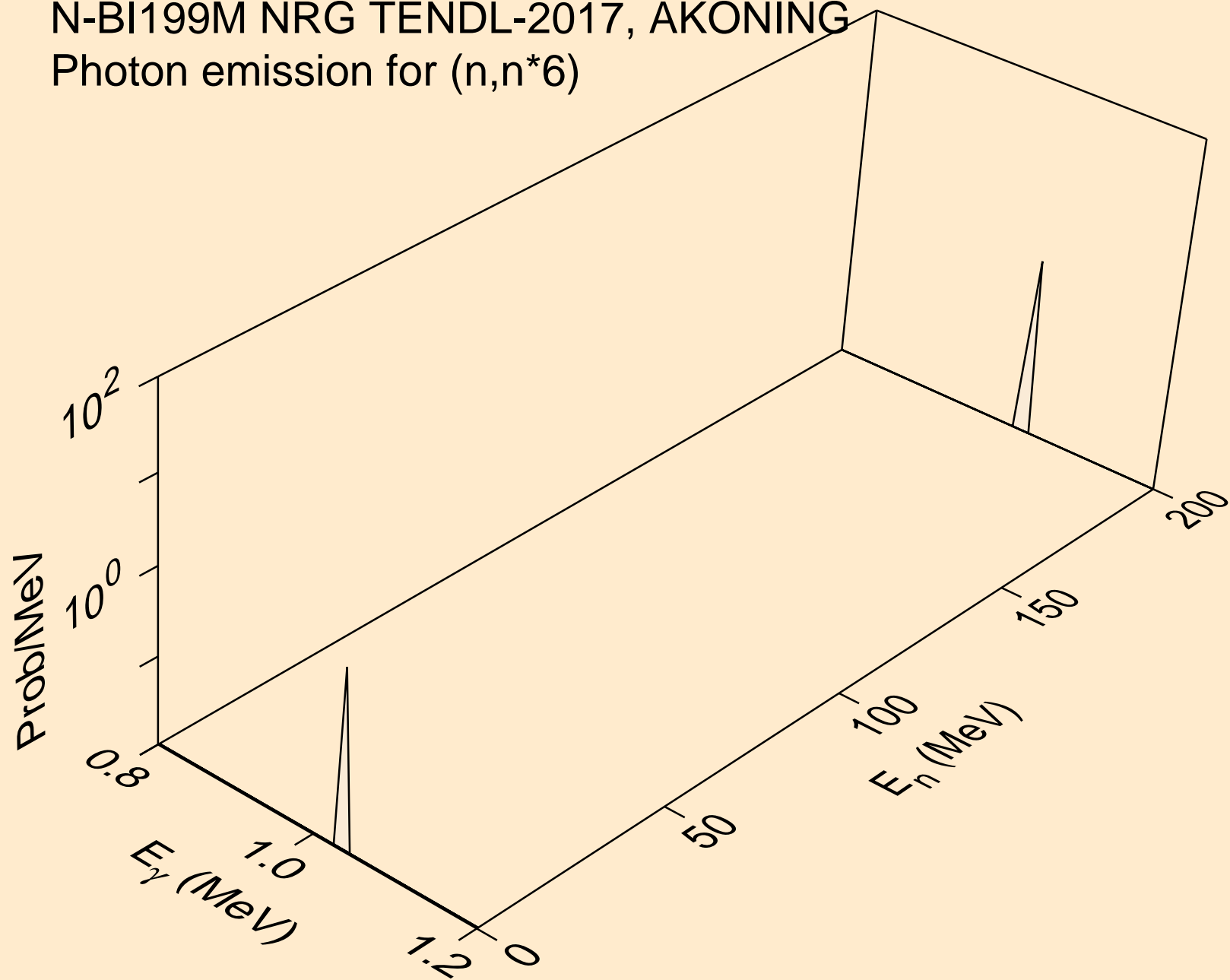
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Photon emission for (n,n\*4)



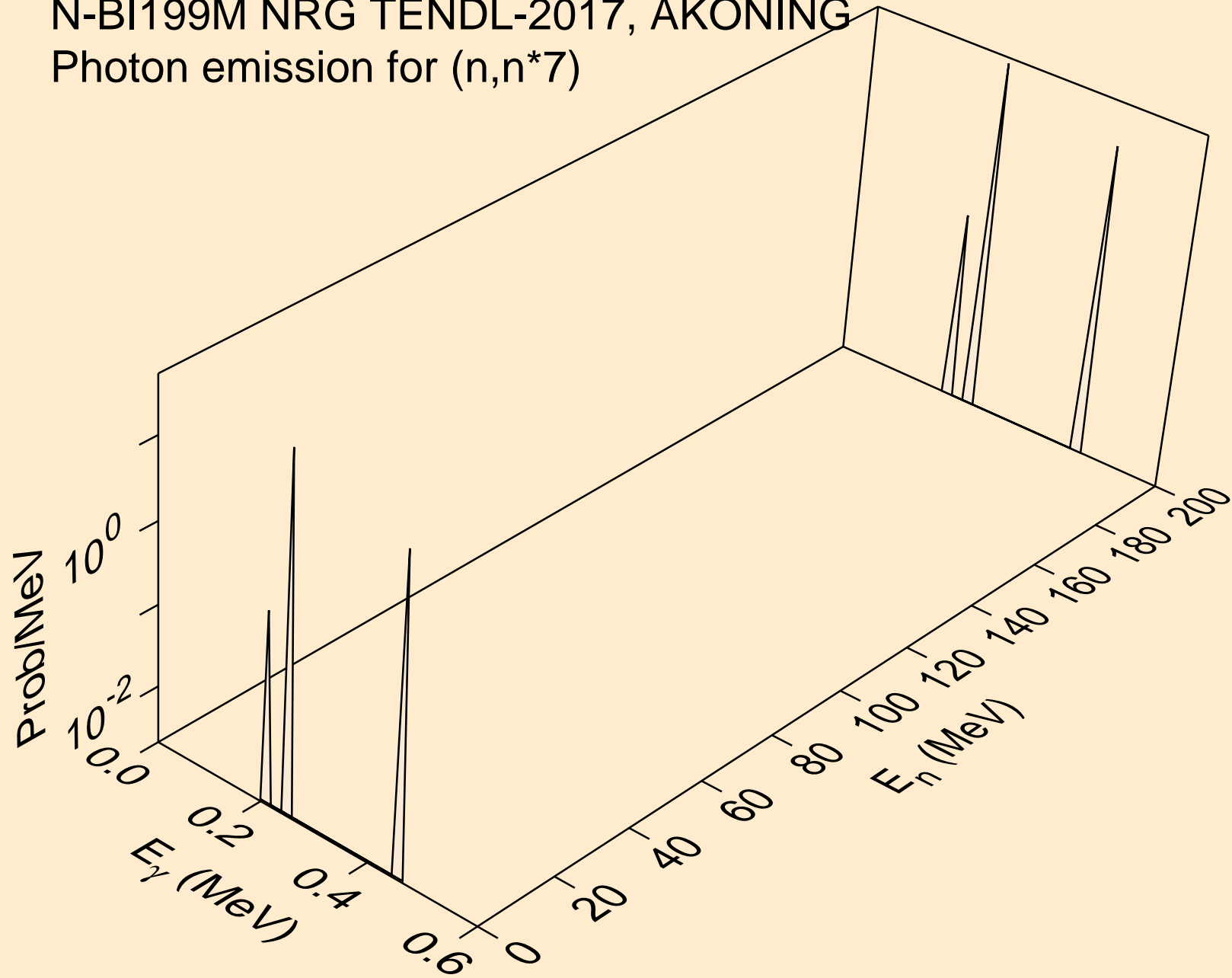
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Photon emission for (n,n\*5)



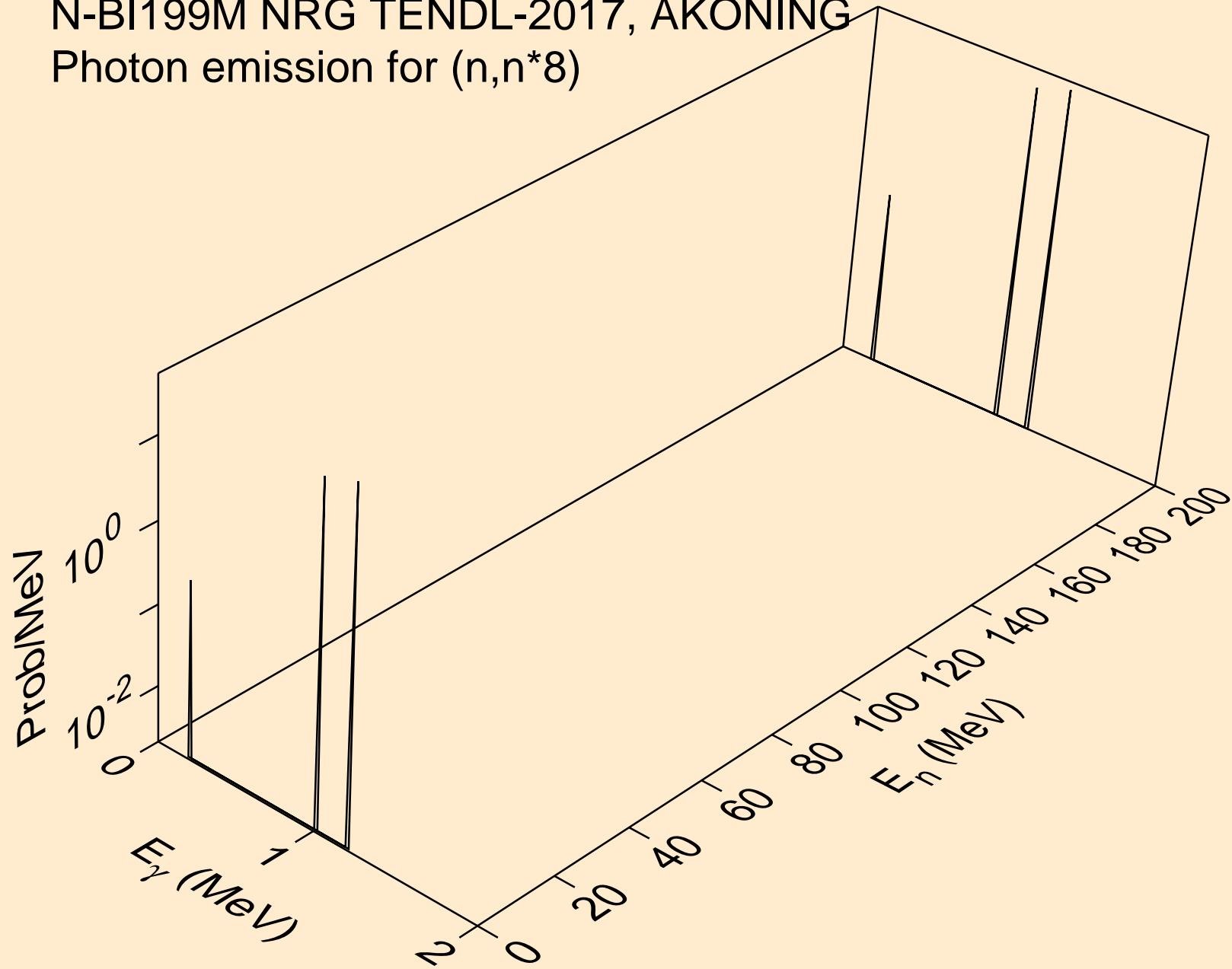
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Photon emission for (n,n\*6)



N-BI199M NRG TENDL-2017, AKONING  
Photon emission for (n,n\*7)

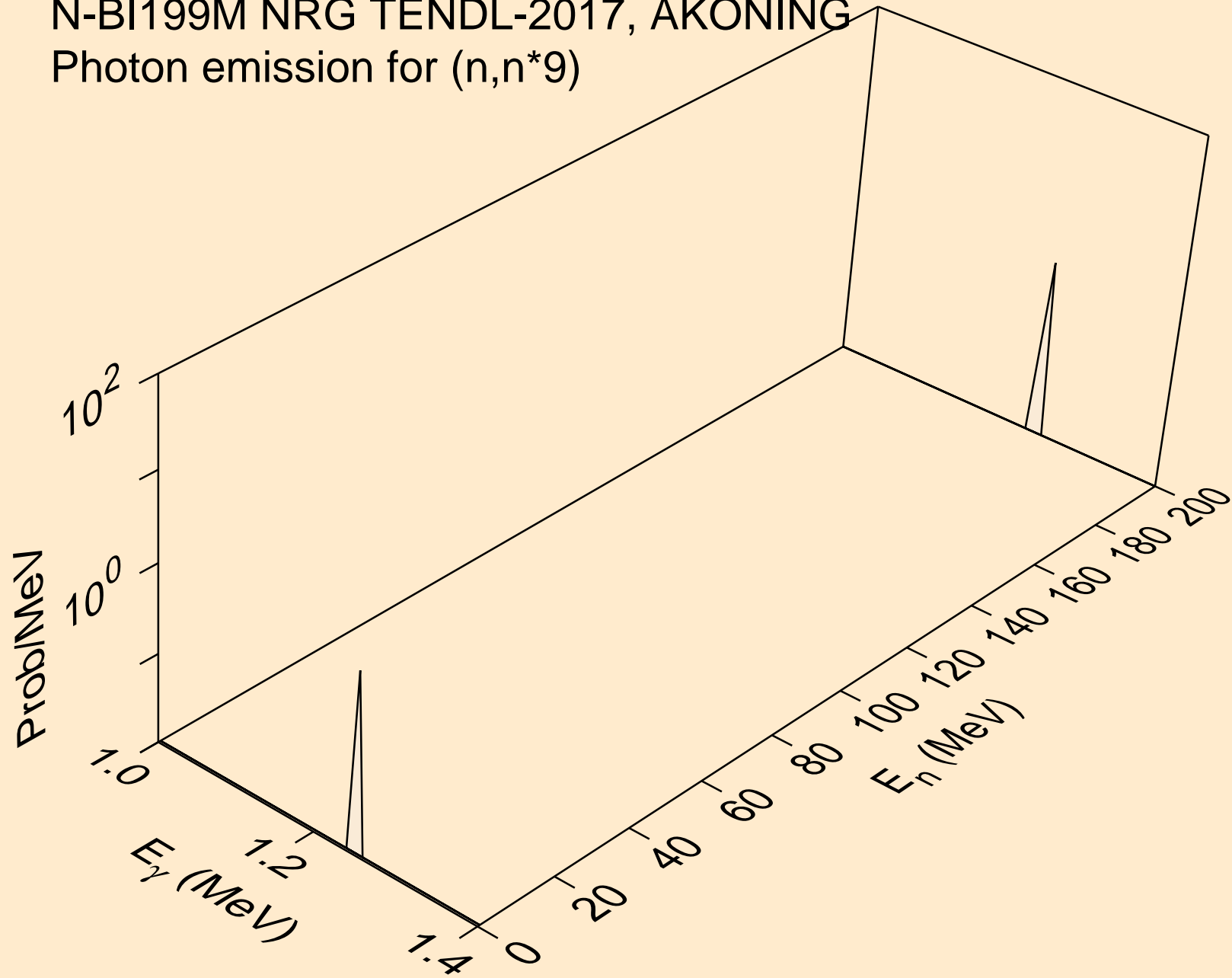


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Photon emission for (n,n\*8)

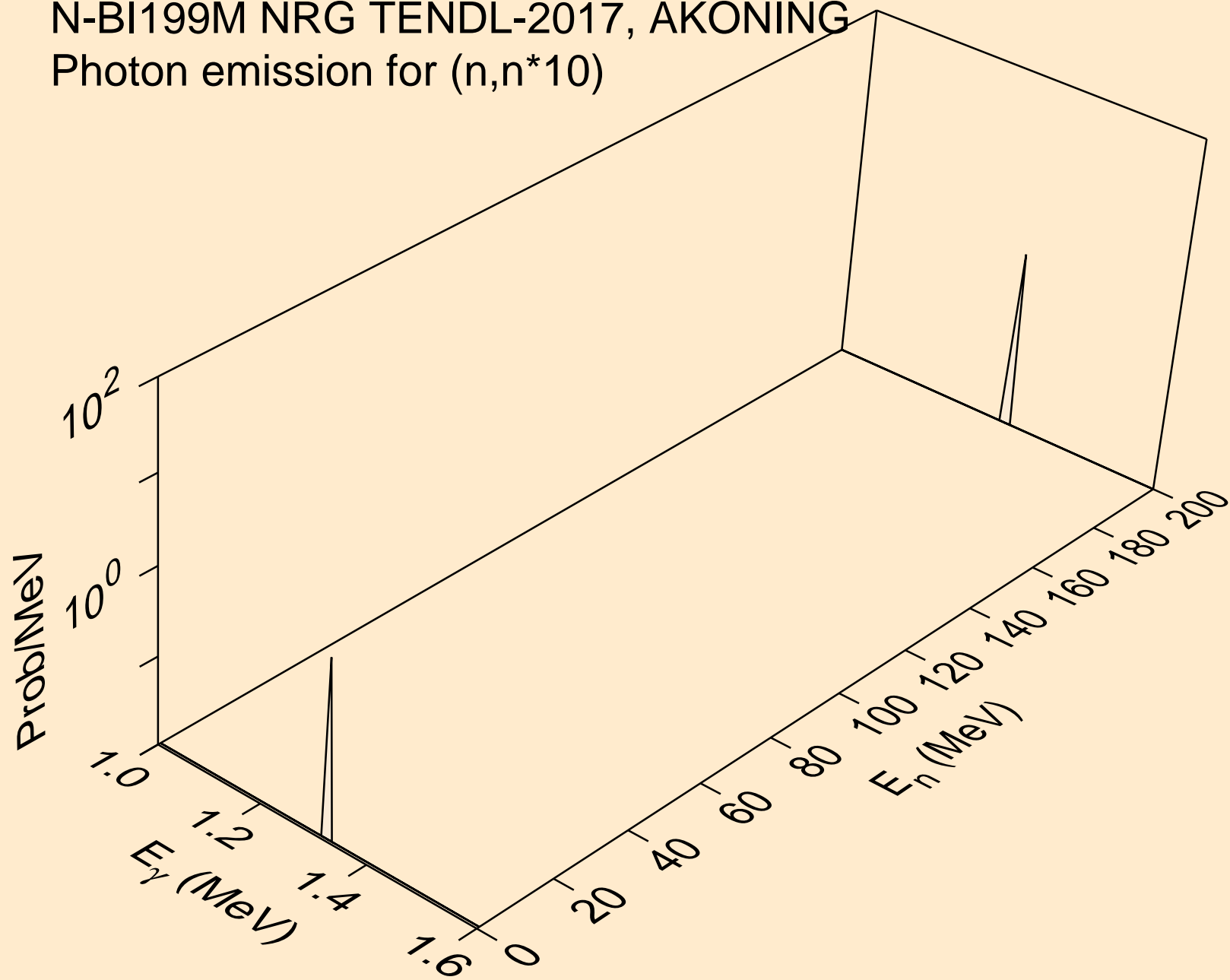




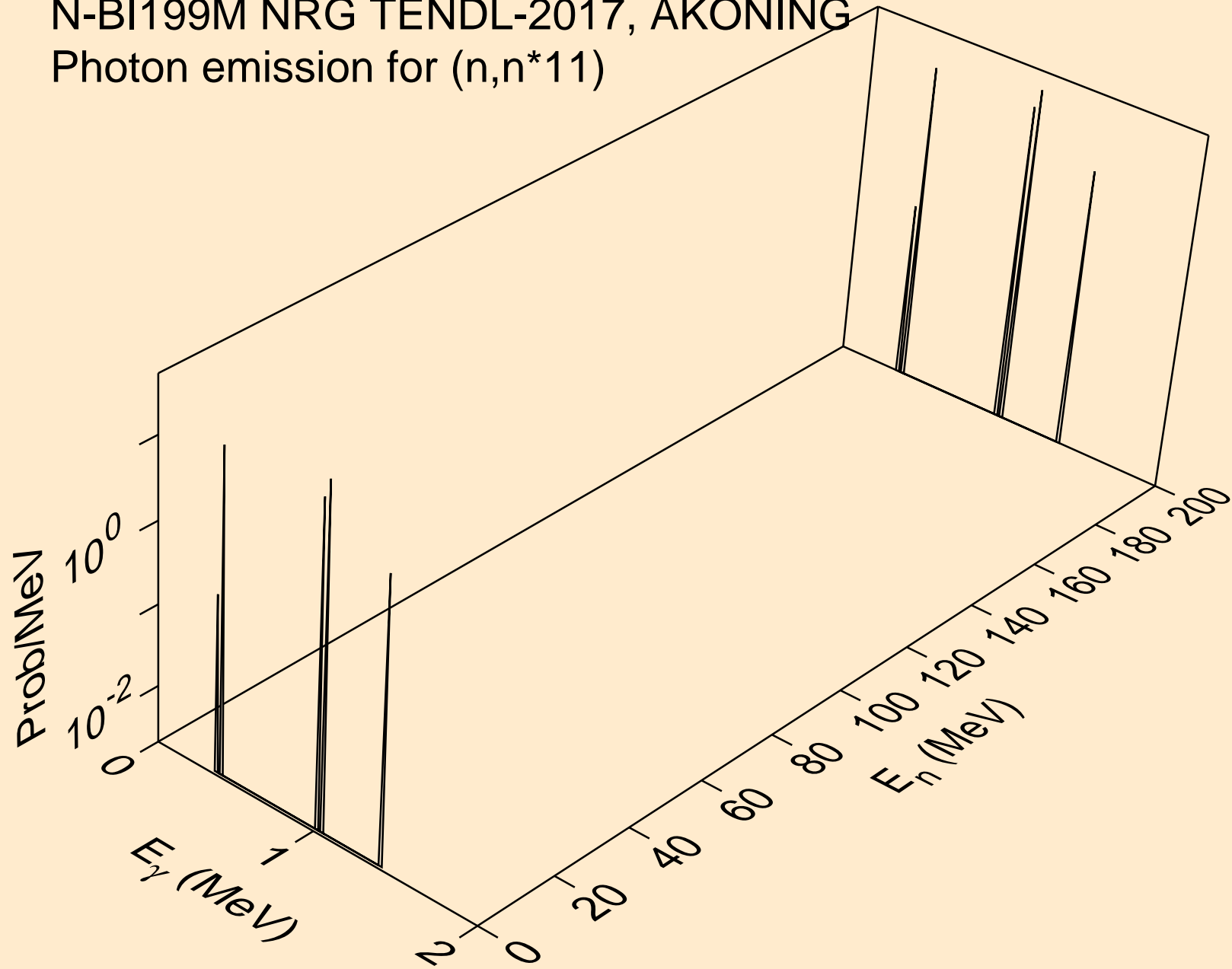
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Photon emission for (n,n\*9)



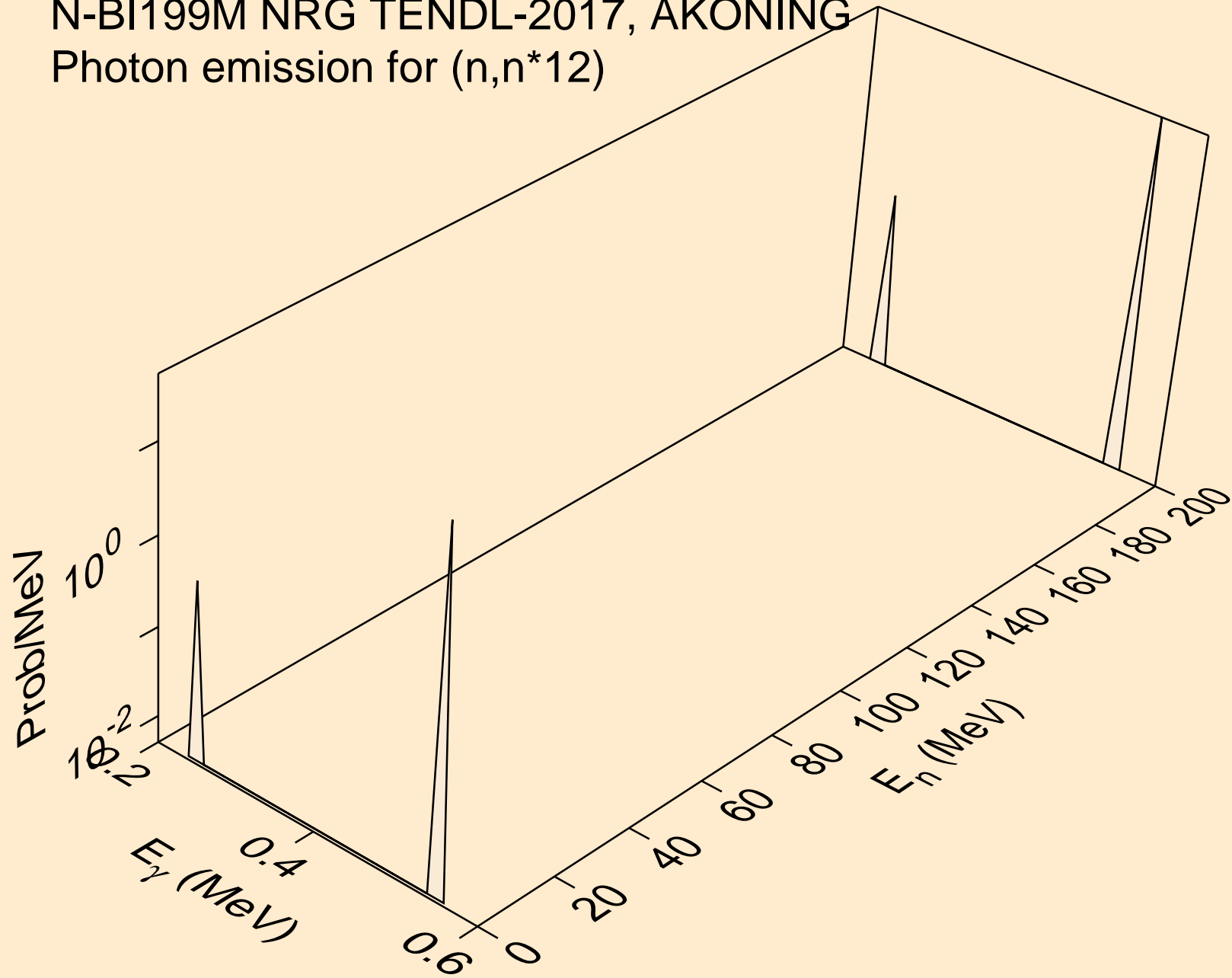
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Photon emission for (n,n\*10)



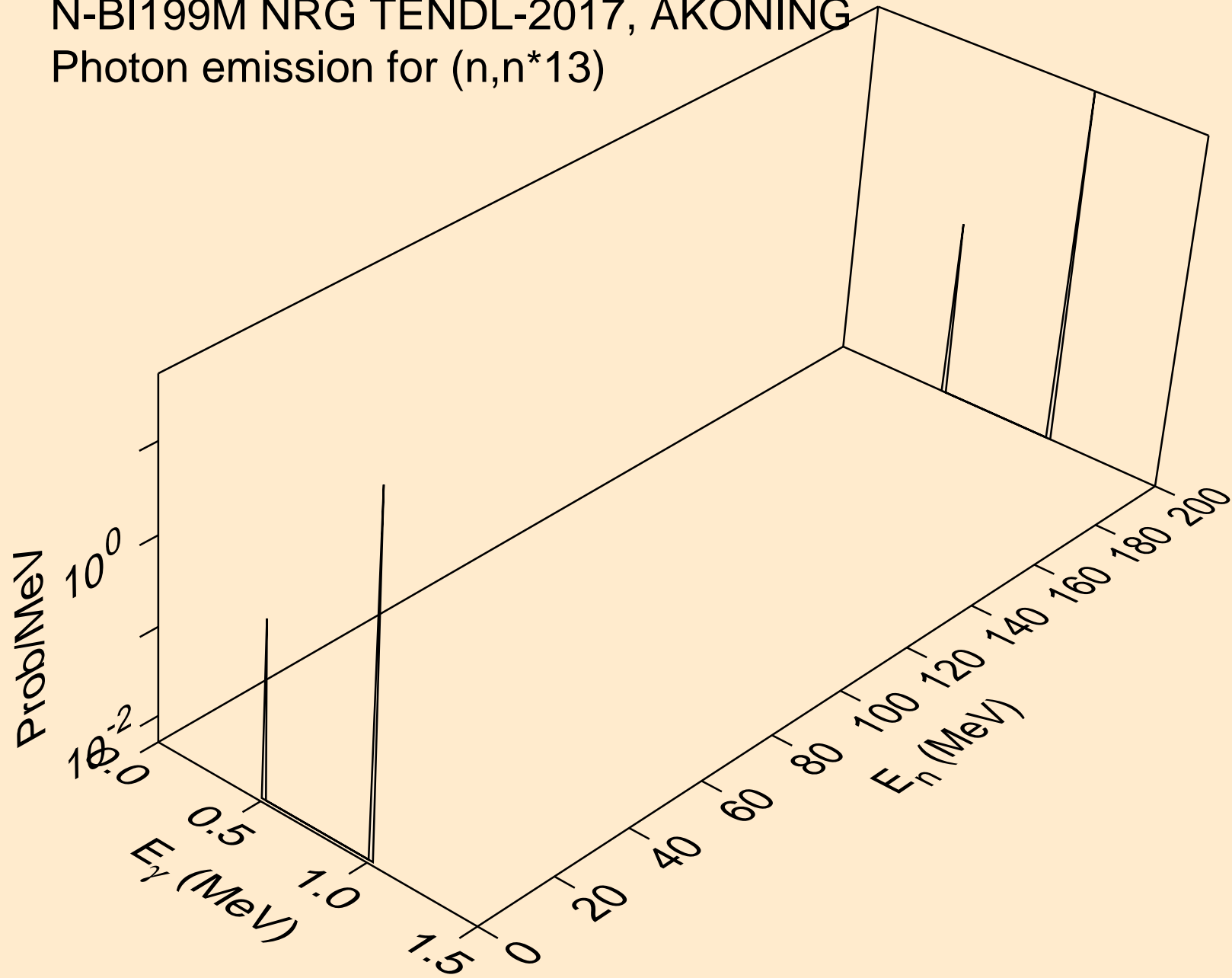
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Photon emission for (n,n\*11)



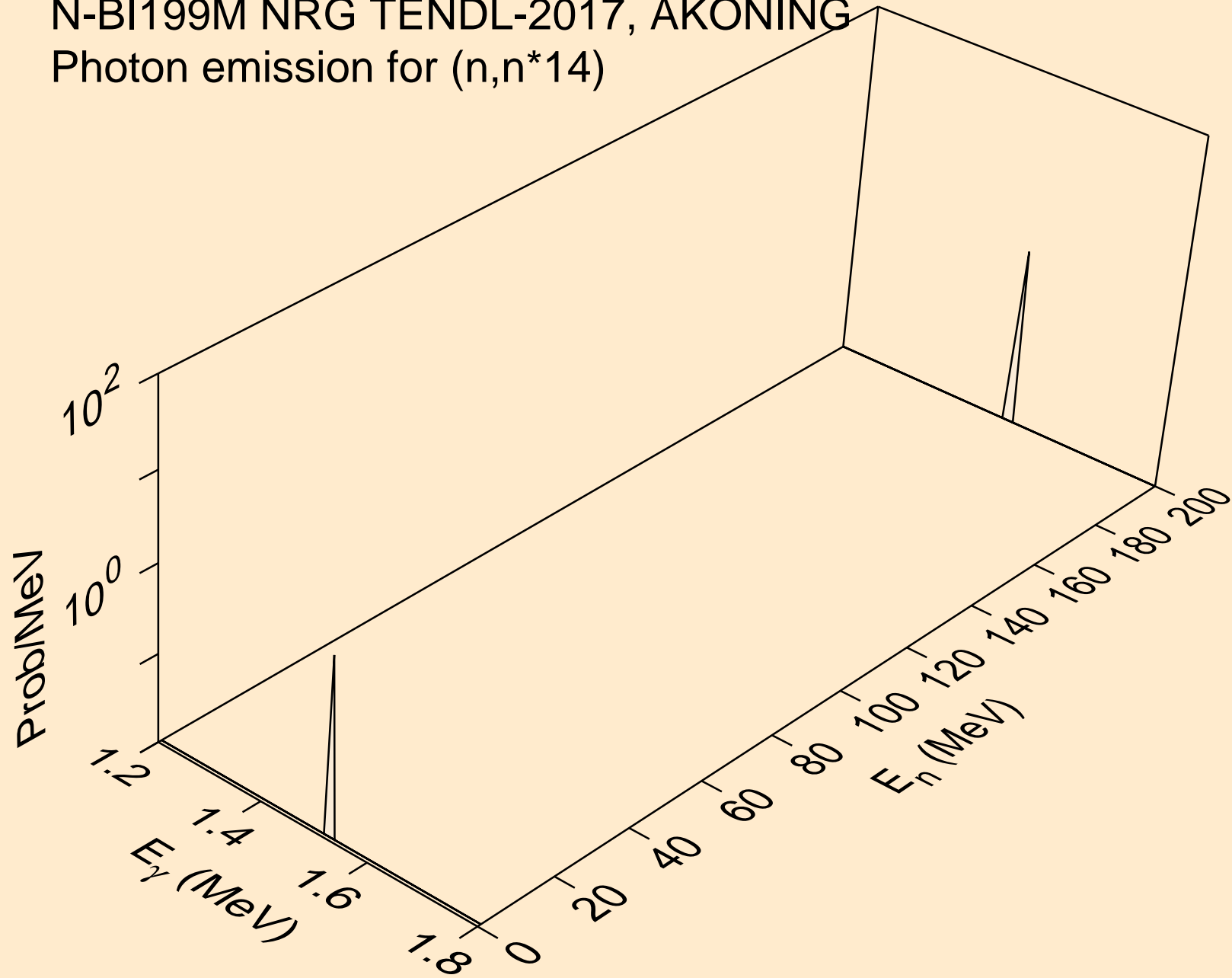
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Photon emission for (n,n\*12)



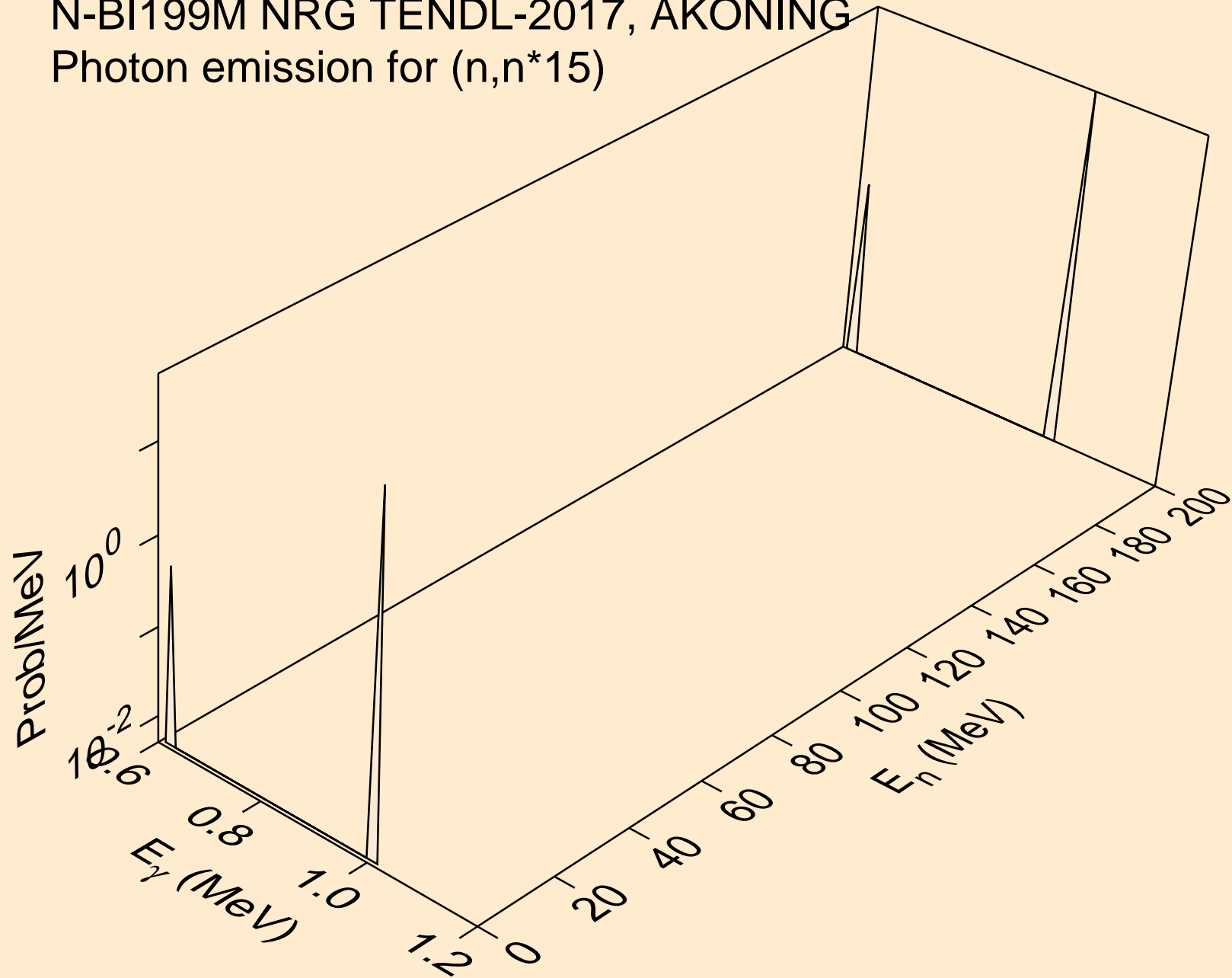
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Photon emission for (n,n\*13)



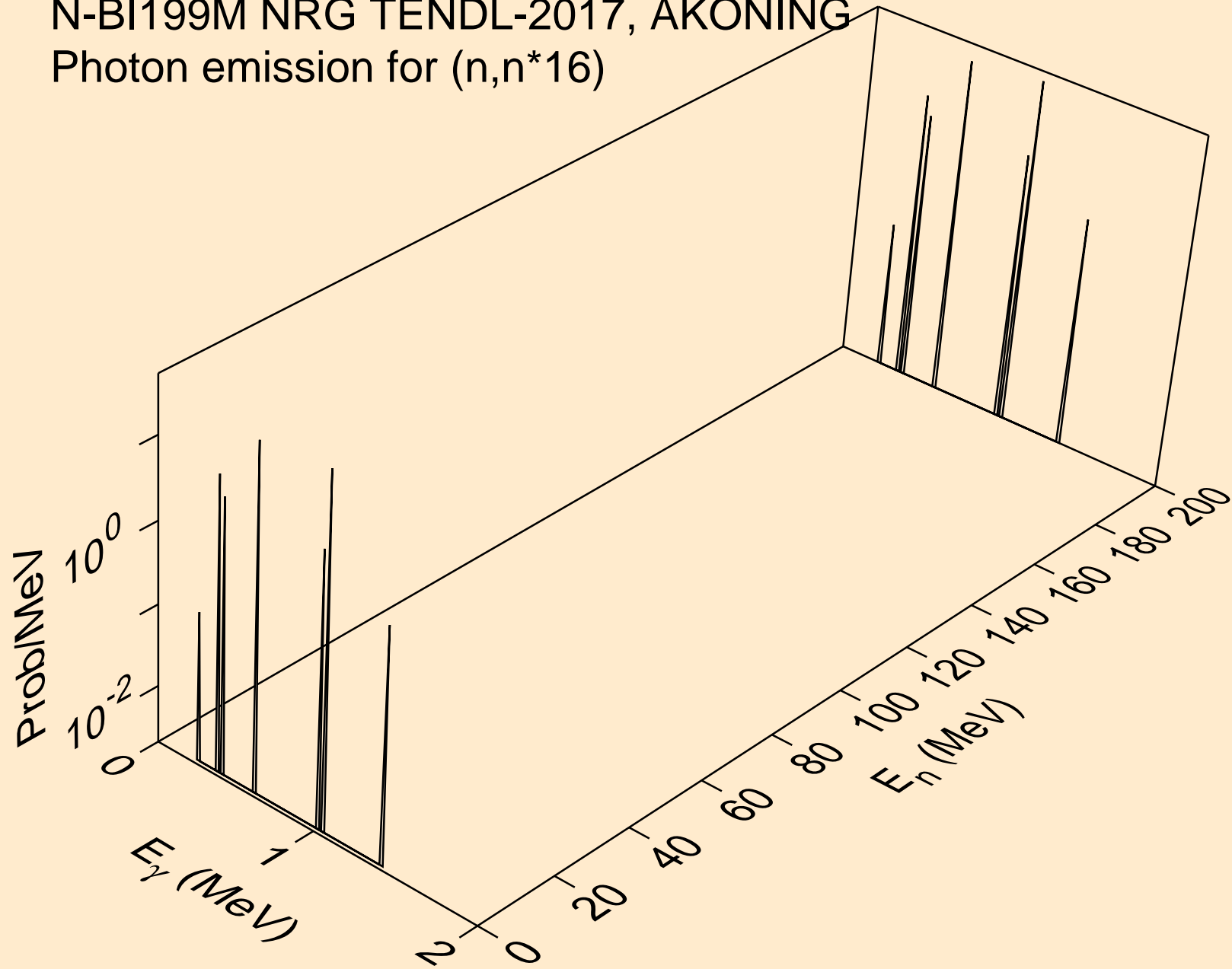
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Photon emission for (n,n\*14)



N-BI199M NRG TENDL-2017, AKONING  
Photon emission for (n,n\*15)

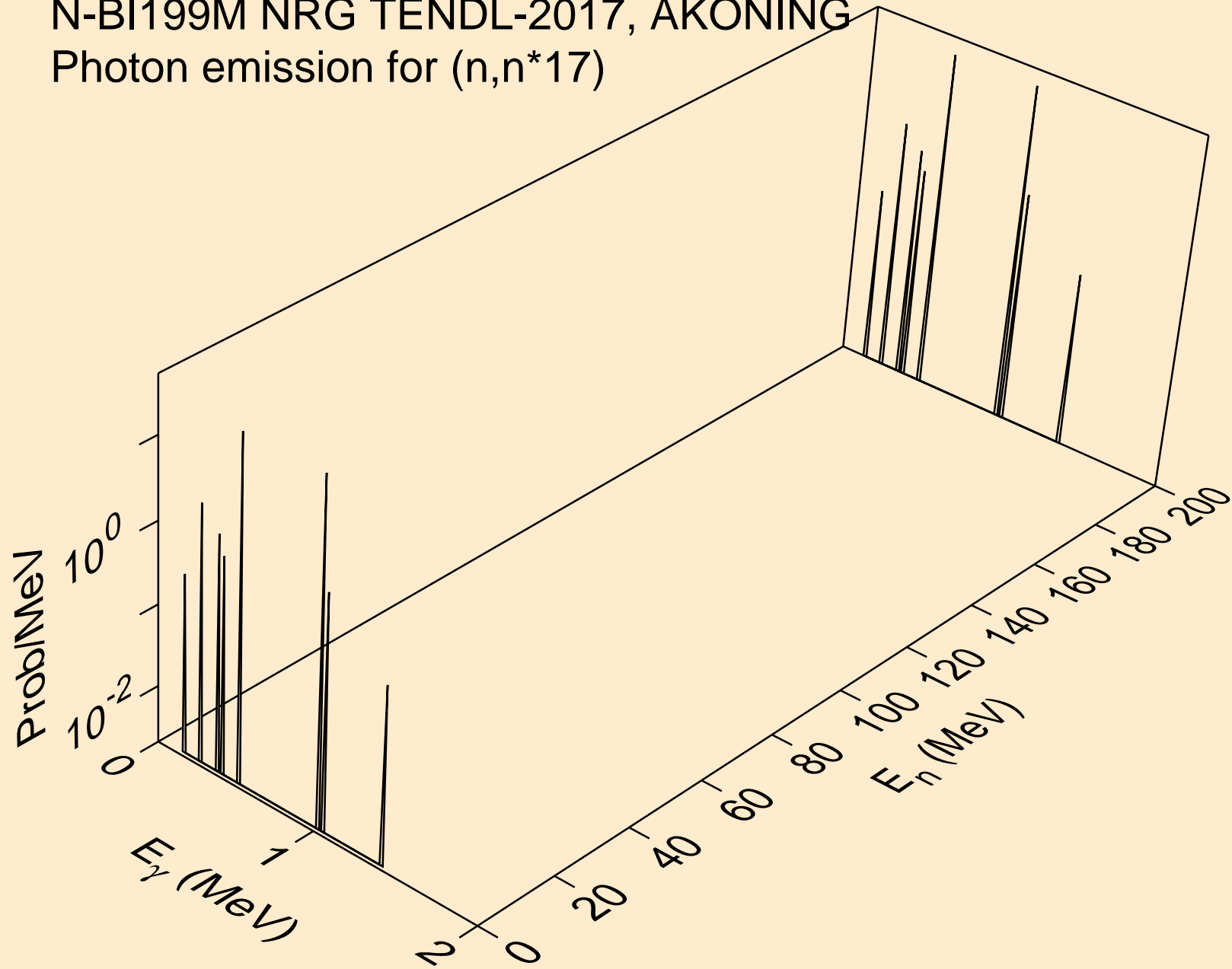


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Photon emission for (n,n\*16)

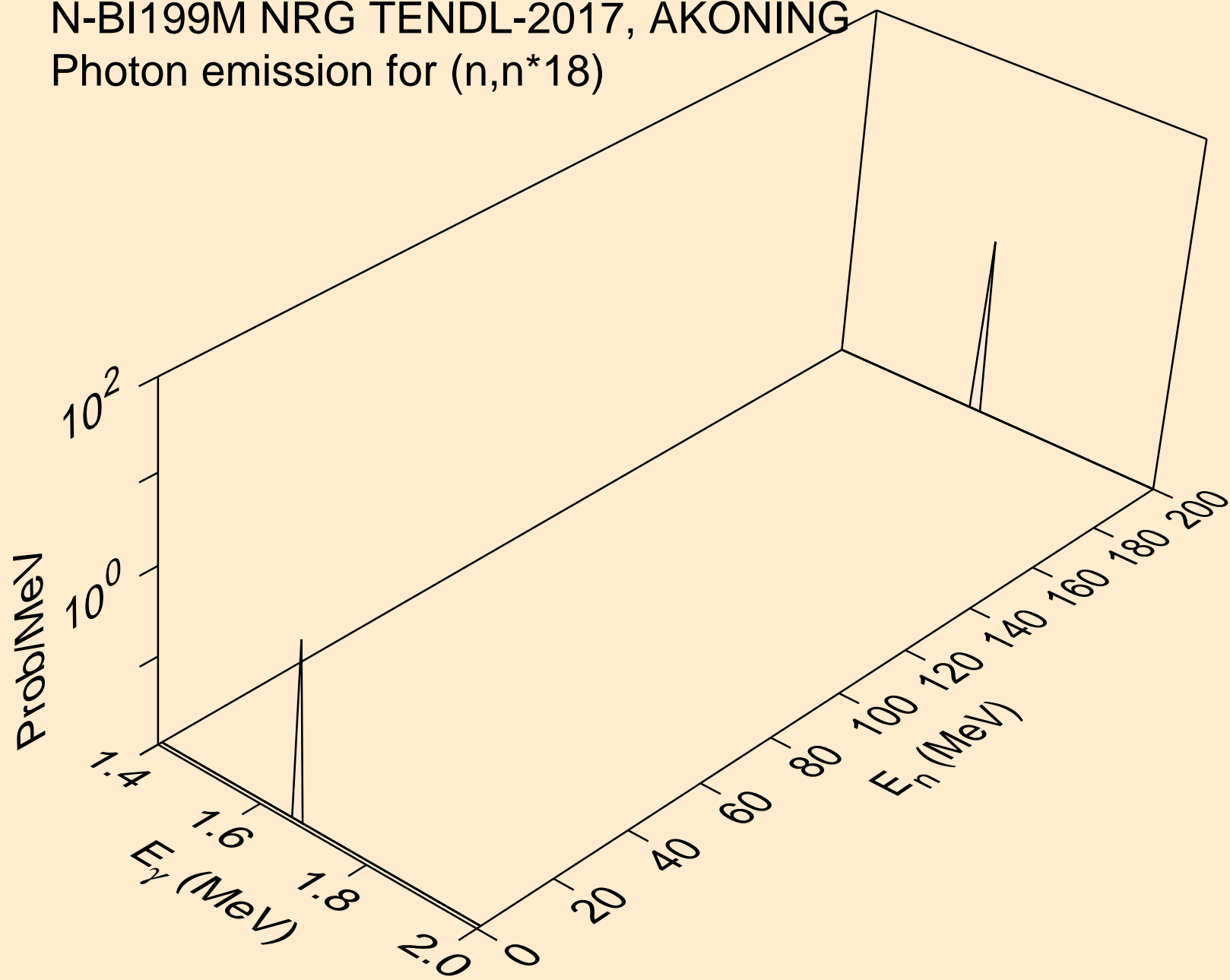




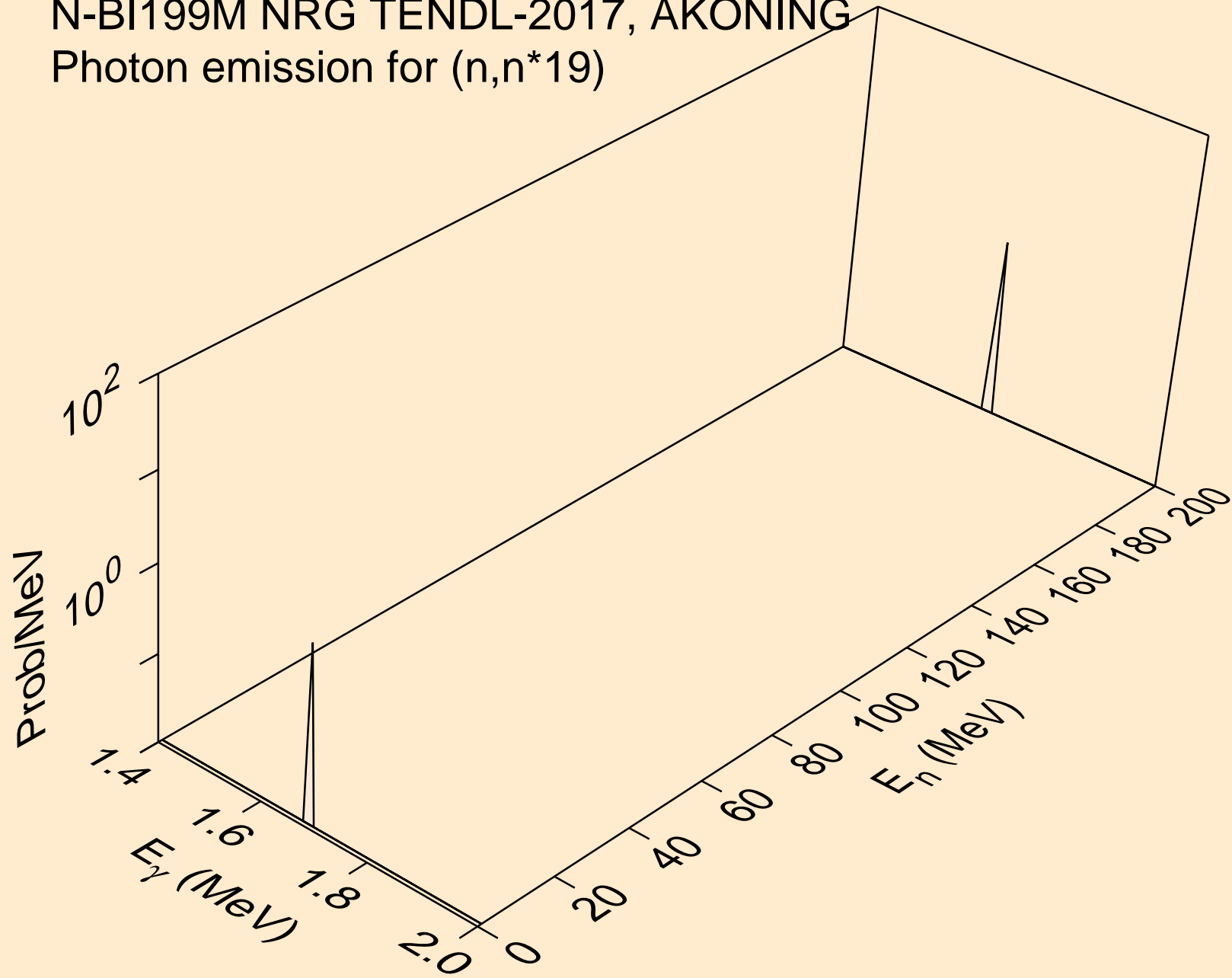
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Photon emission for (n,n\*17)



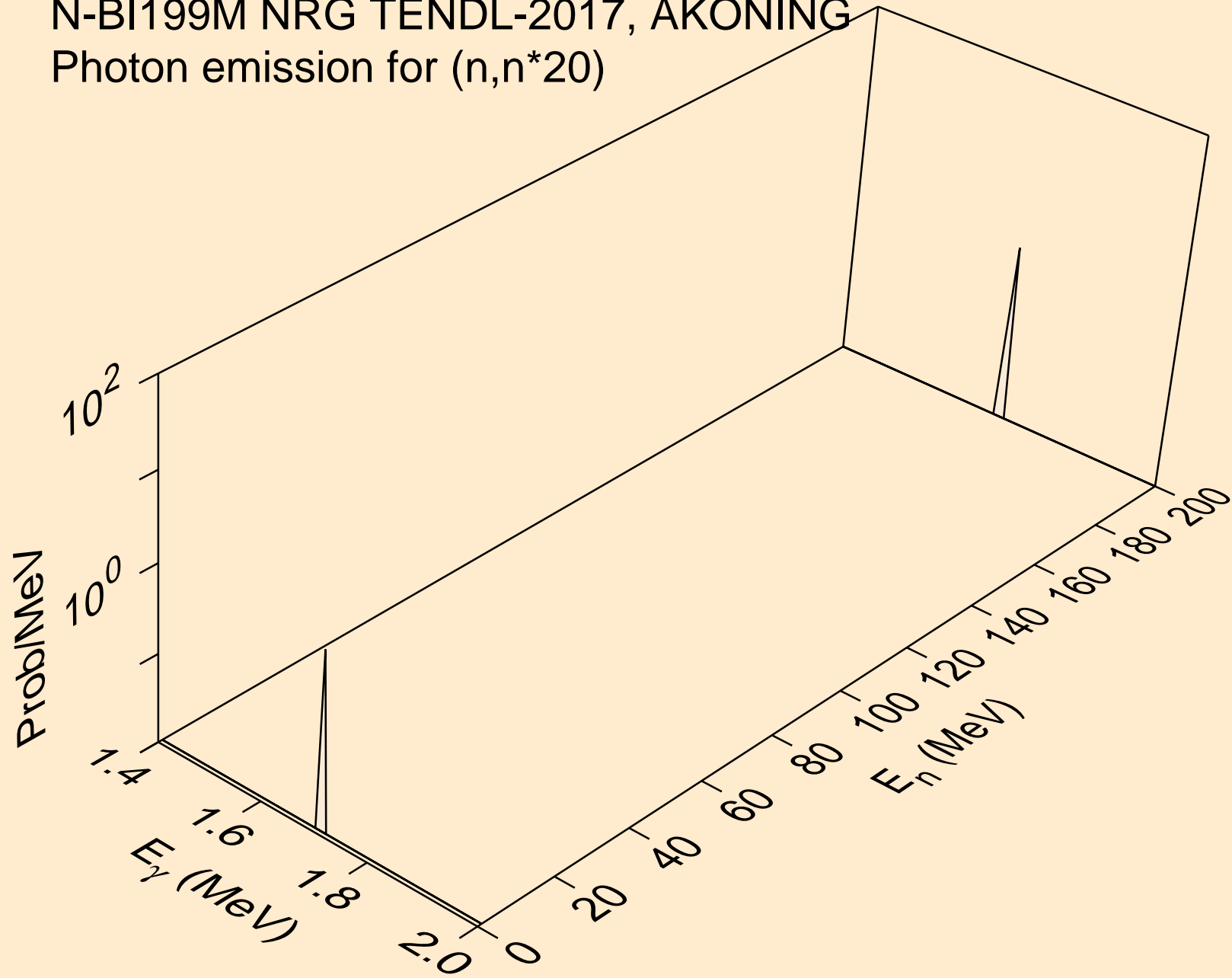
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Photon emission for (n,n\*18)



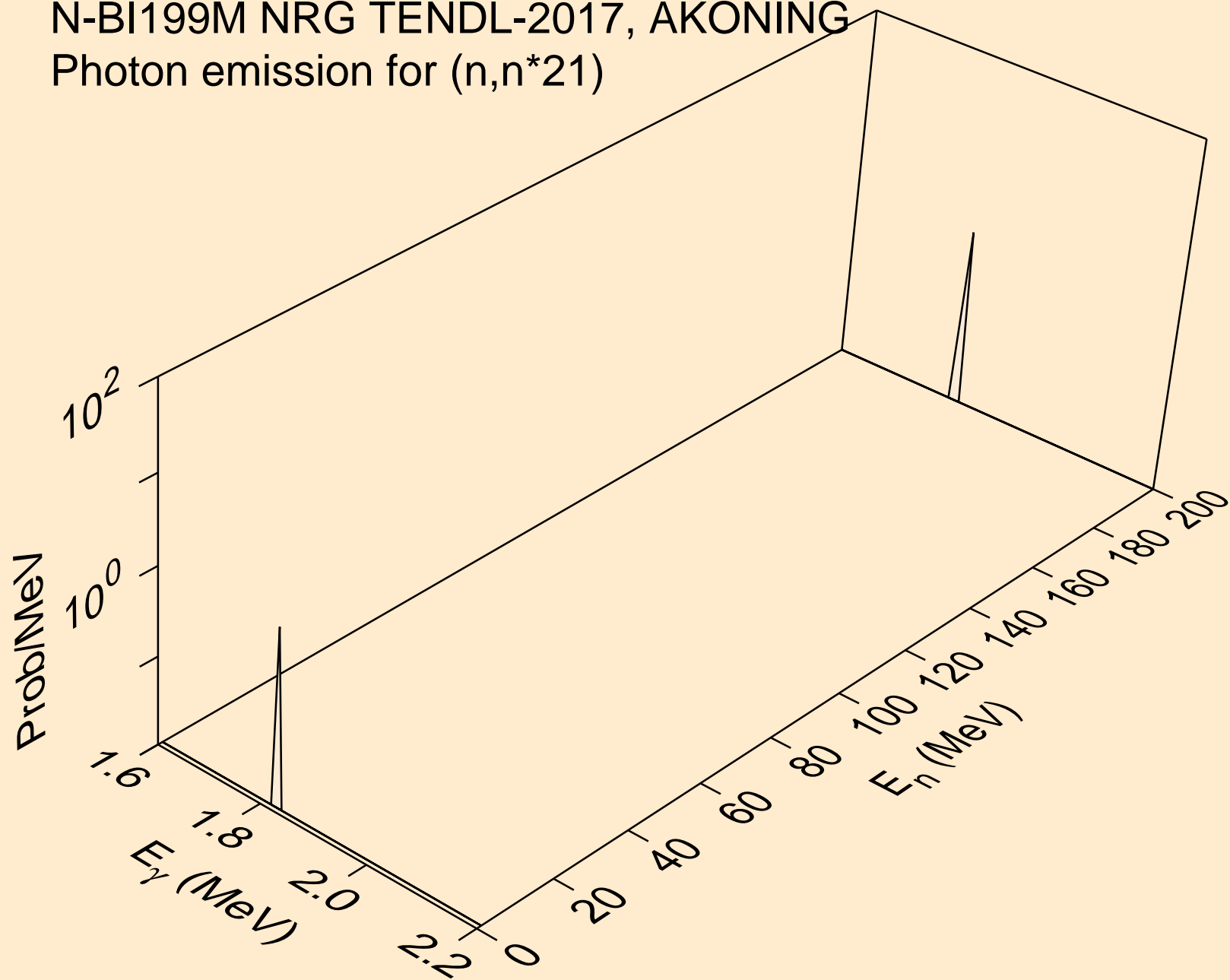
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Photon emission for (n,n\*19)



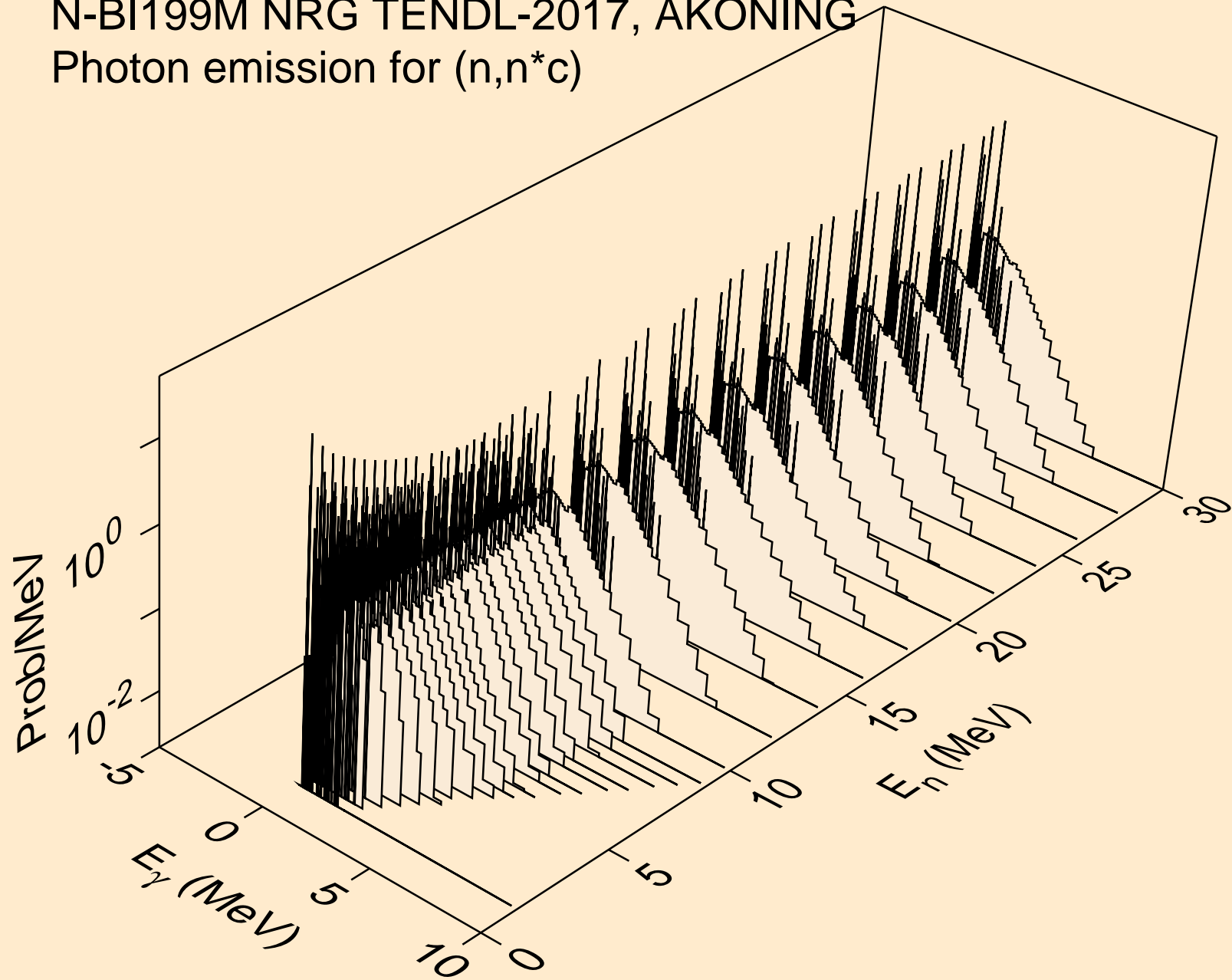
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Photon emission for (n,n\*20)



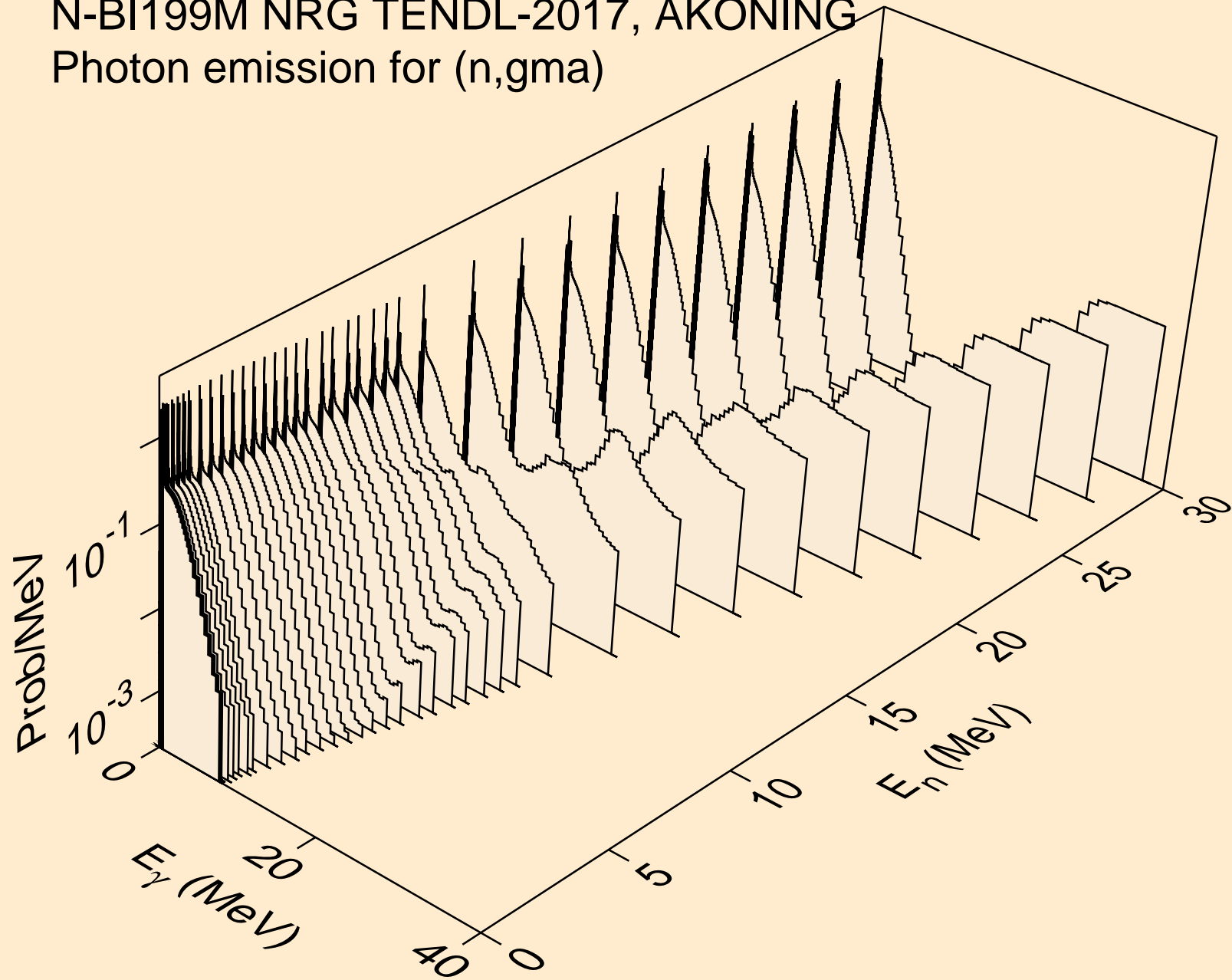
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Photon emission for (n,n\*21)



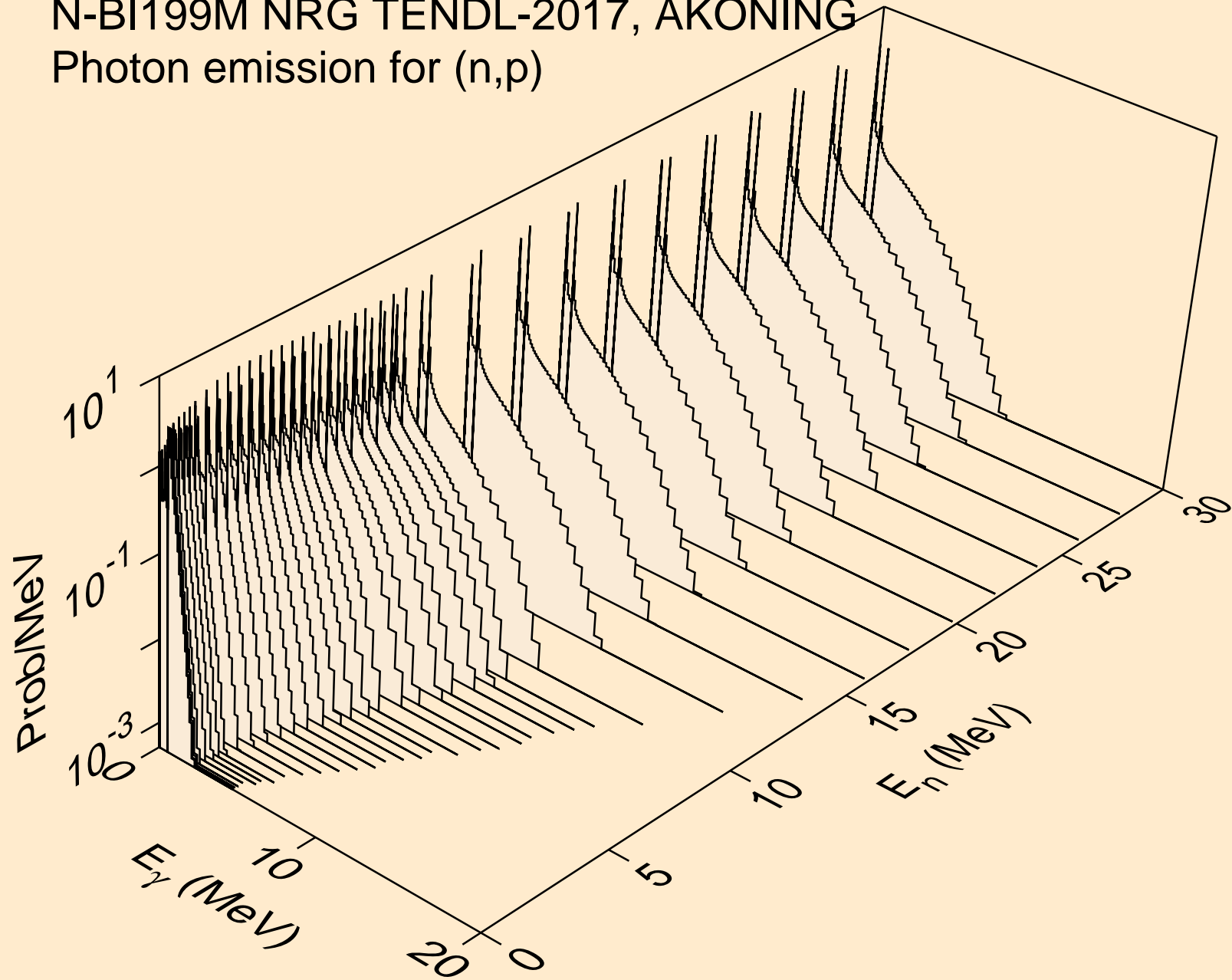
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Photon emission for (n,n\*c)



N-BI199M NRG TENDL-2017, AKONING  
Photon emission for (n,gma)

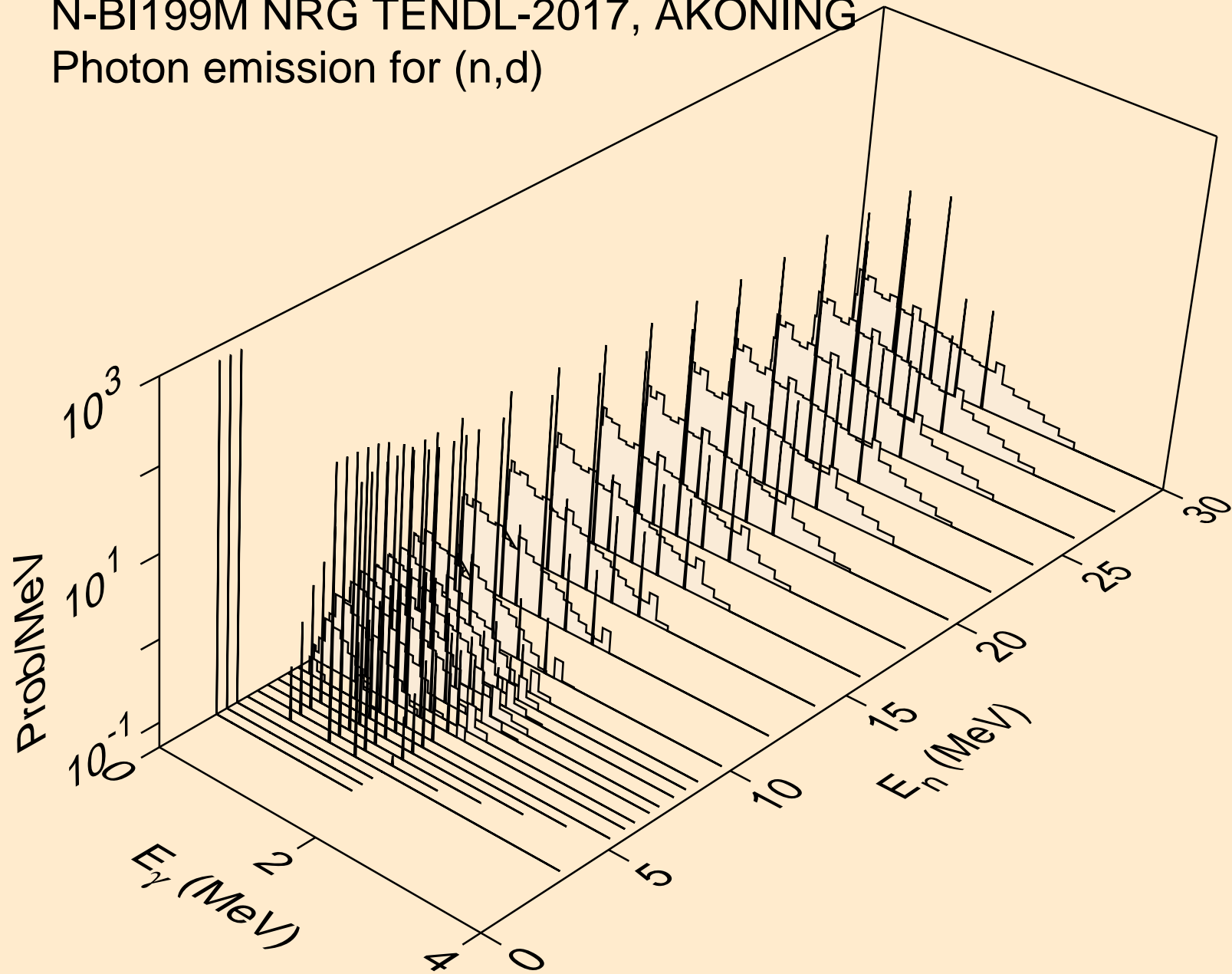


N-BI199M NRG TENDL-2017, AKONING  
Photon emission for (n,p)

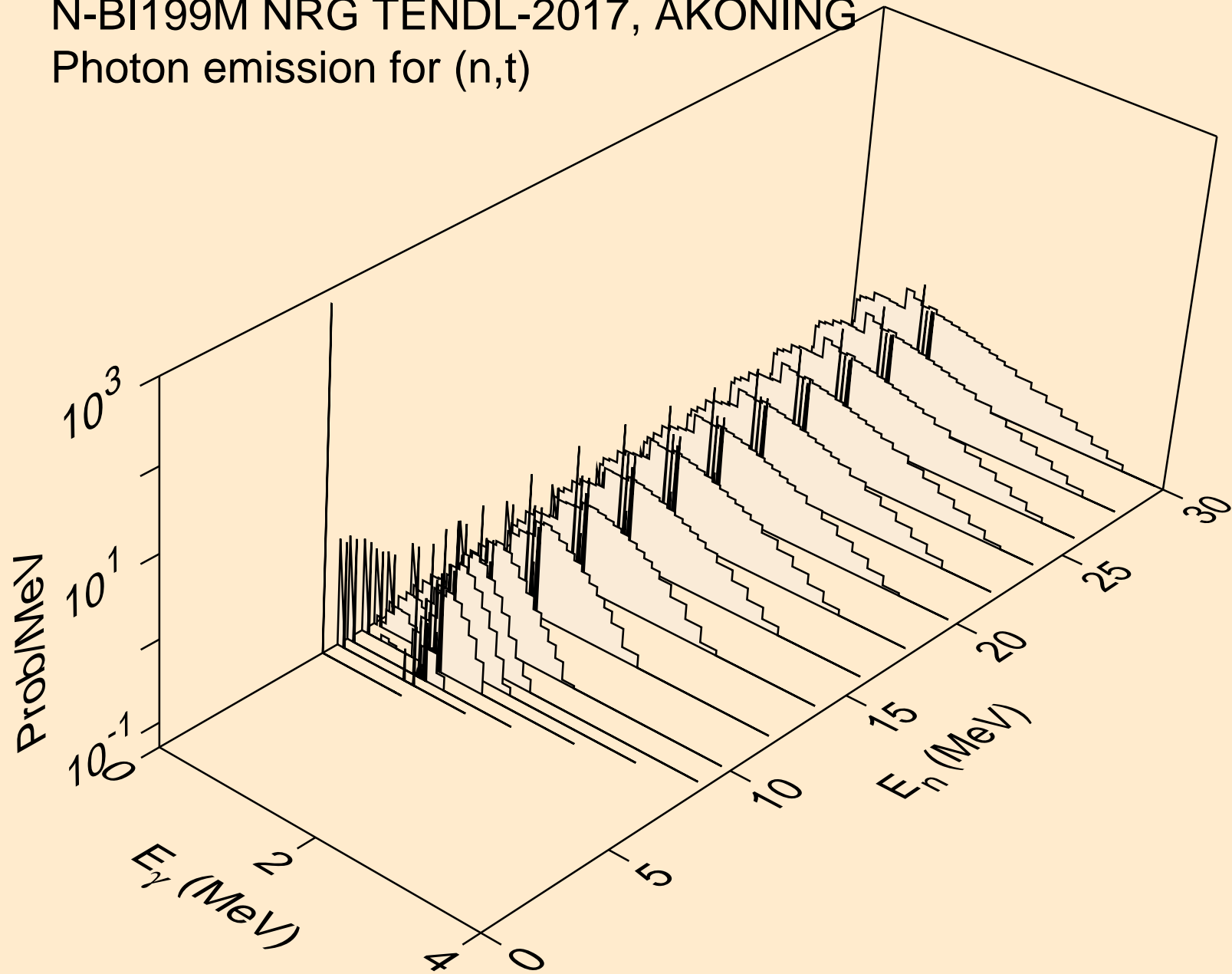




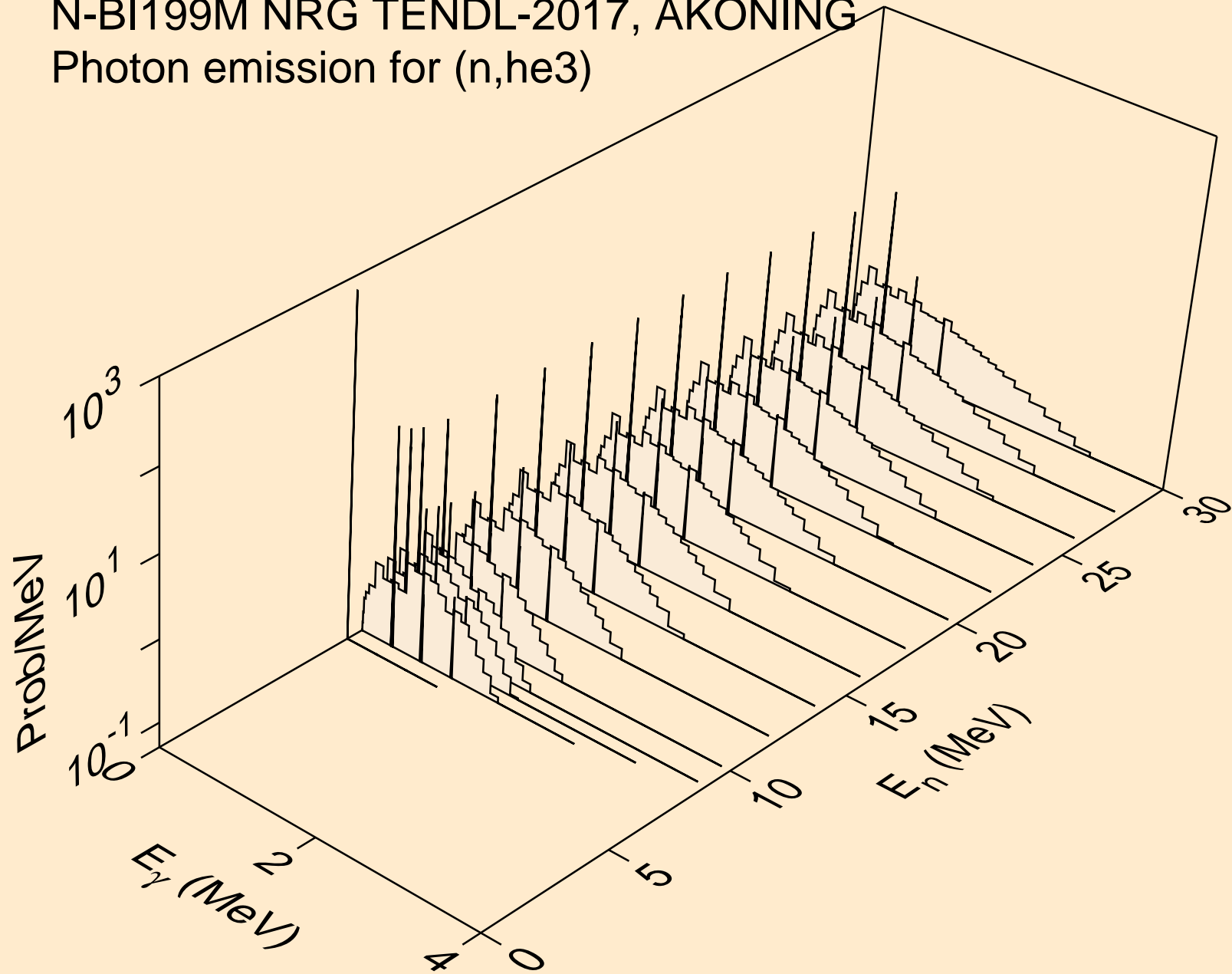
N-BI199M NRG TENDL-2017, AKONING  
Photon emission for (n,d)



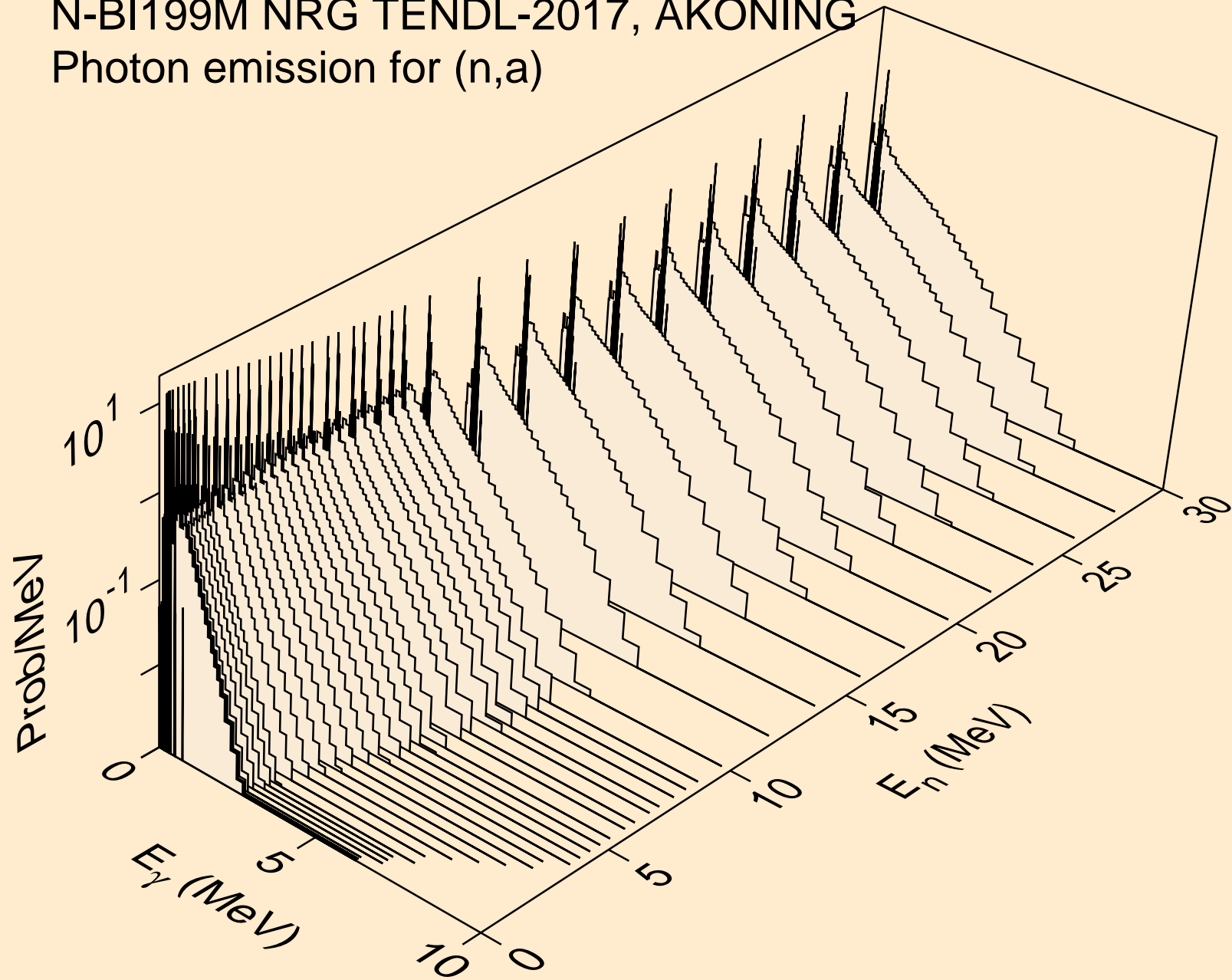
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Photon emission for (n,t)



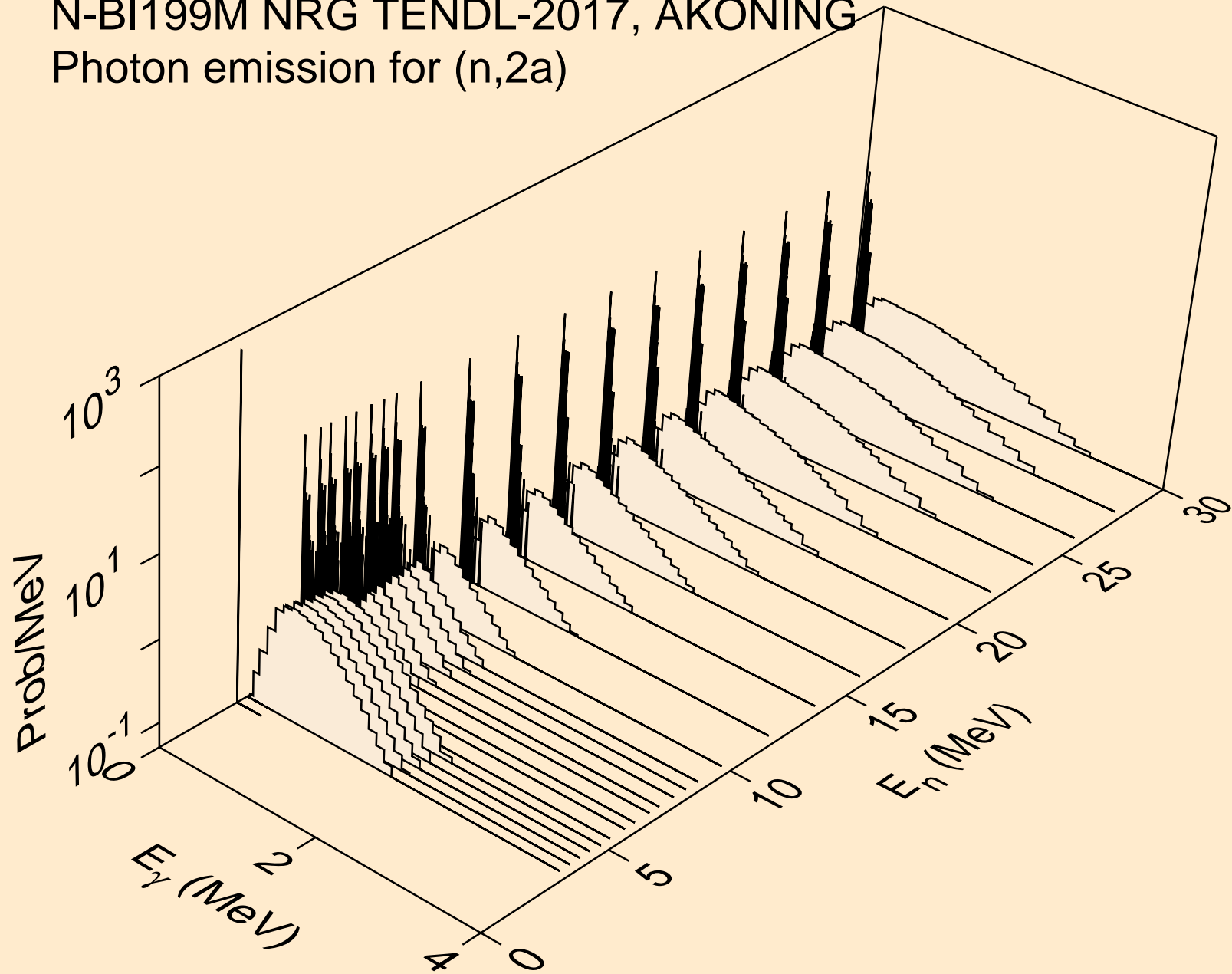
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Photon emission for (n,he3)



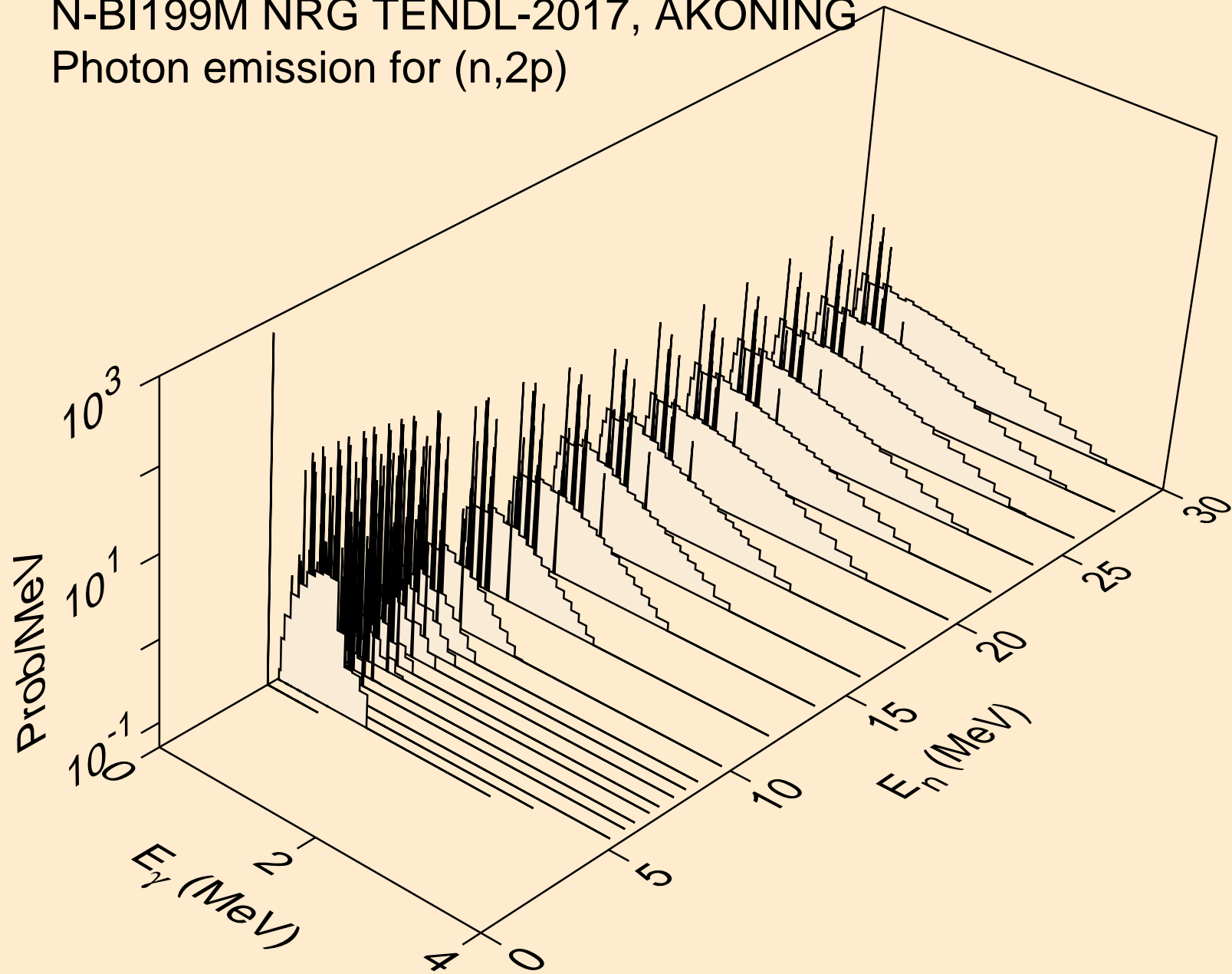
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Photon emission for (n,a)



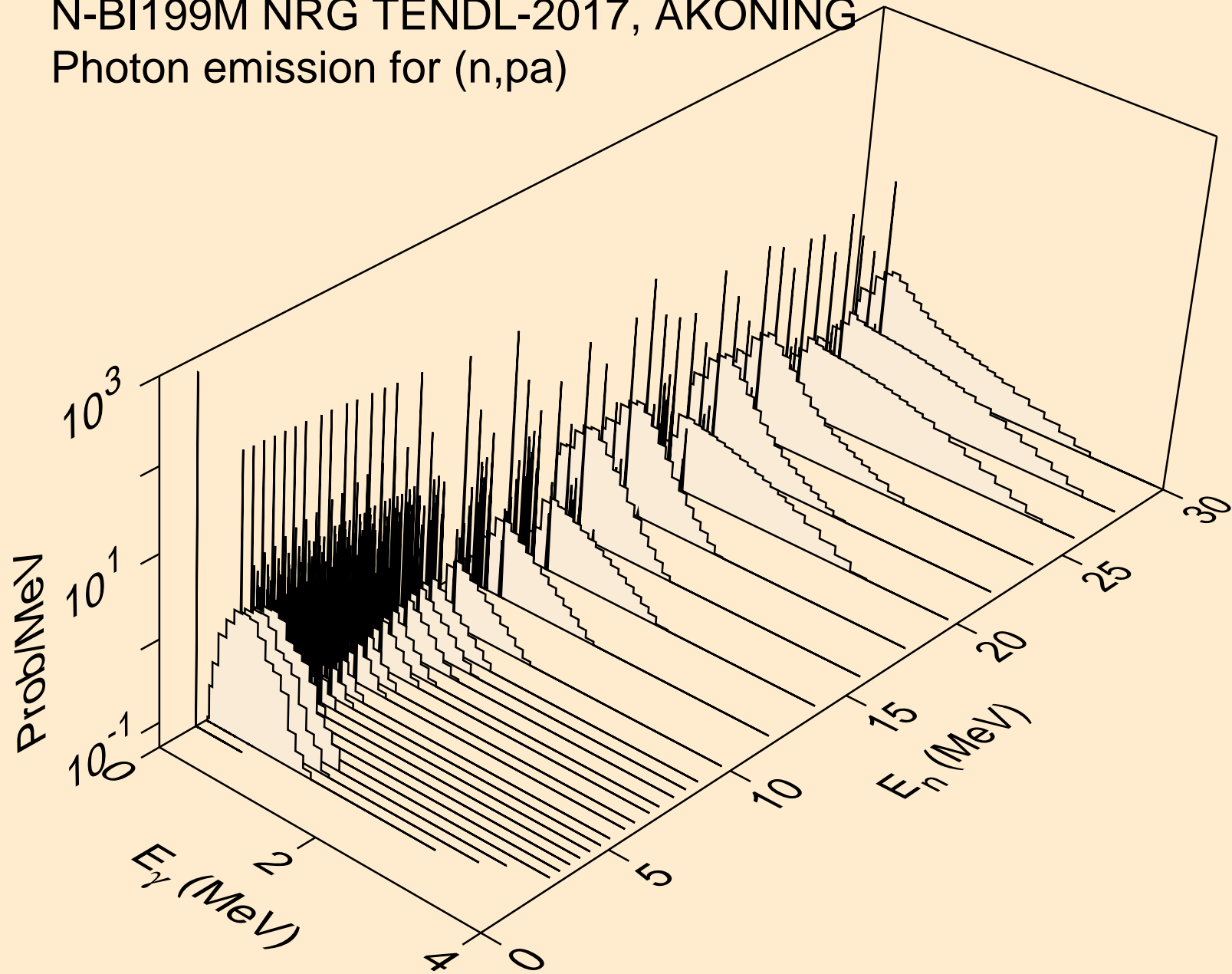
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Photon emission for (n,2a)



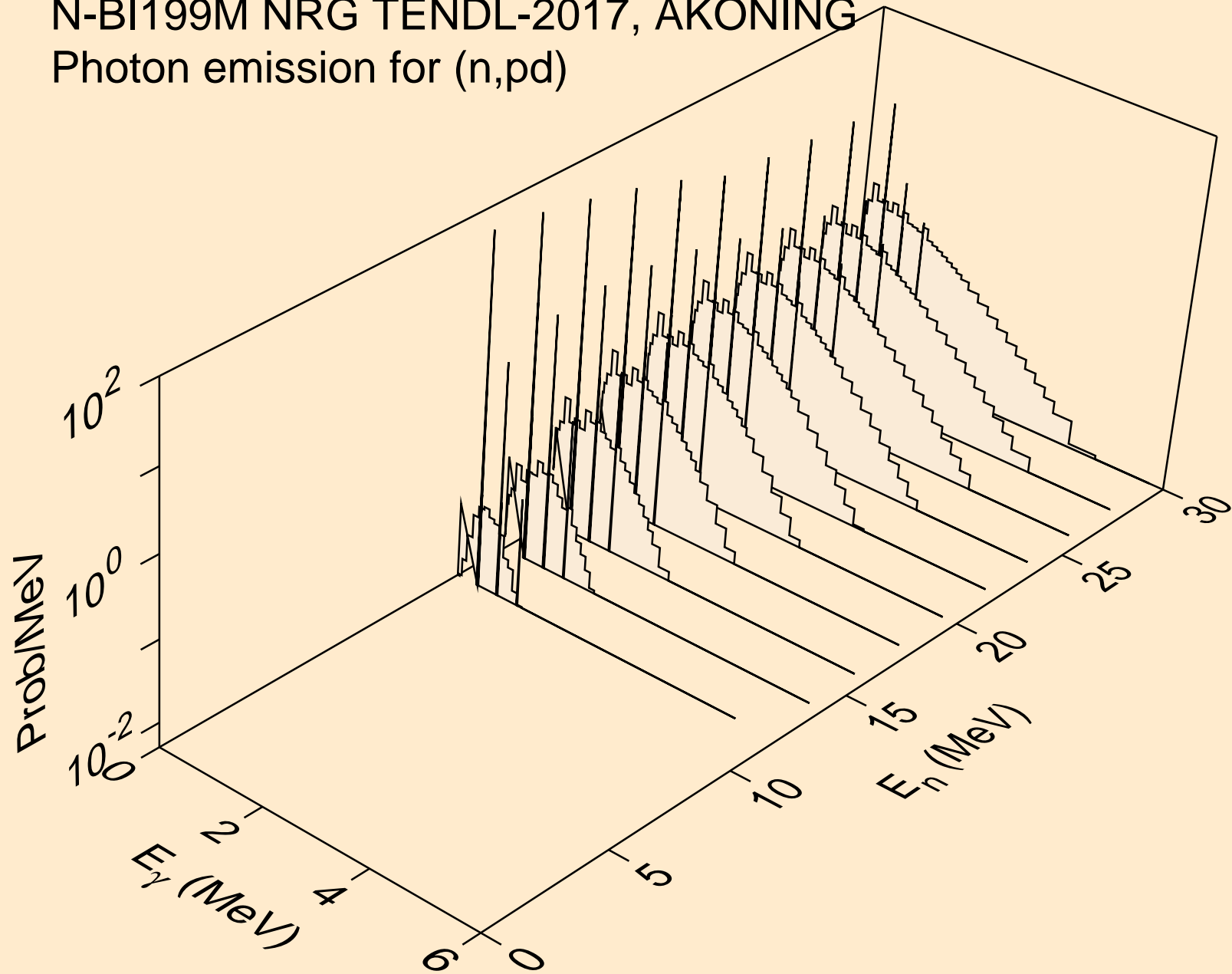
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Photon emission for (n,2p)



N-BI199M NRG TENDL-2017, AKONING  
Photon emission for (n,pa)

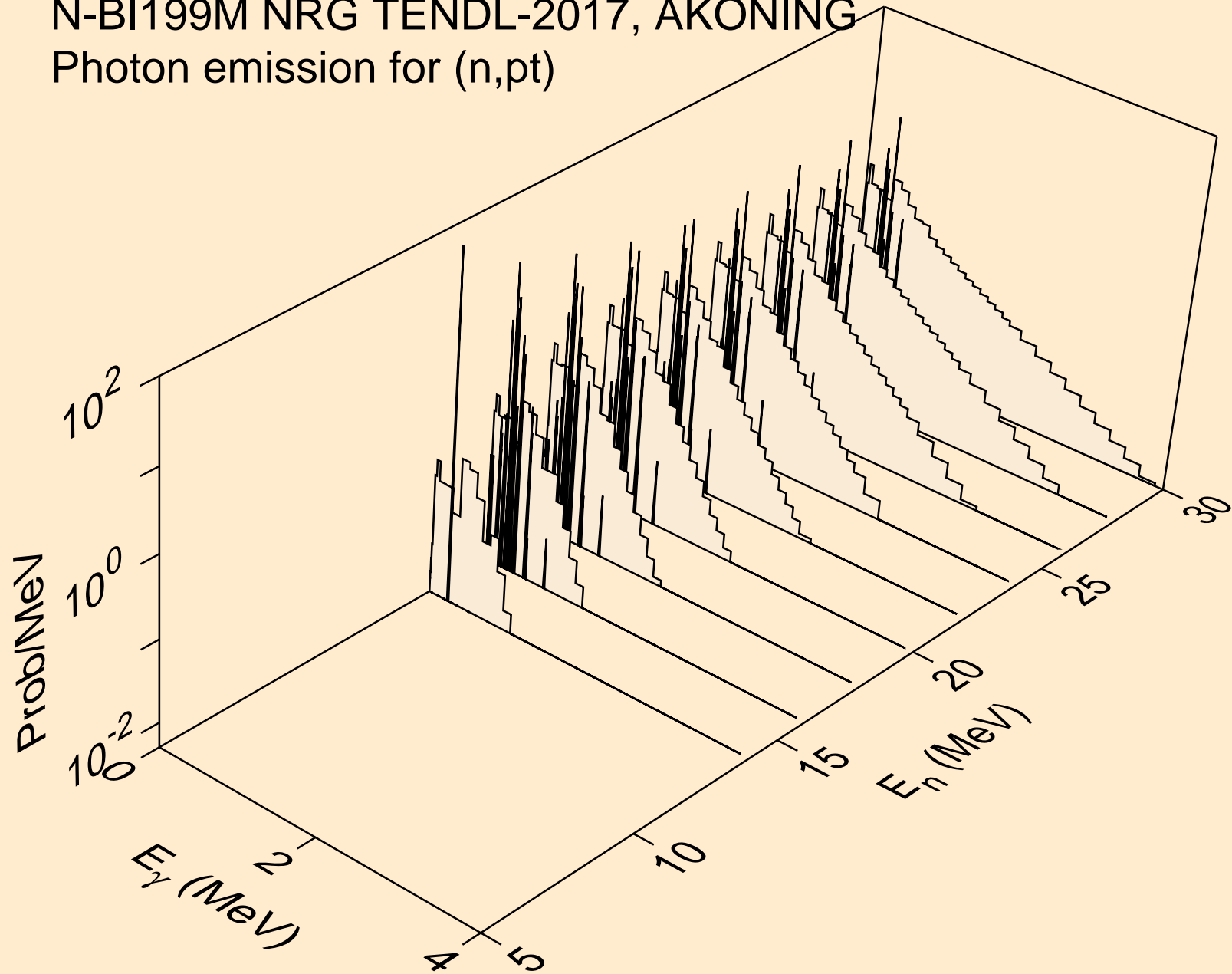


N-BI199M NRG TENDL-2017, AKONING  
Photon emission for (n,pd)

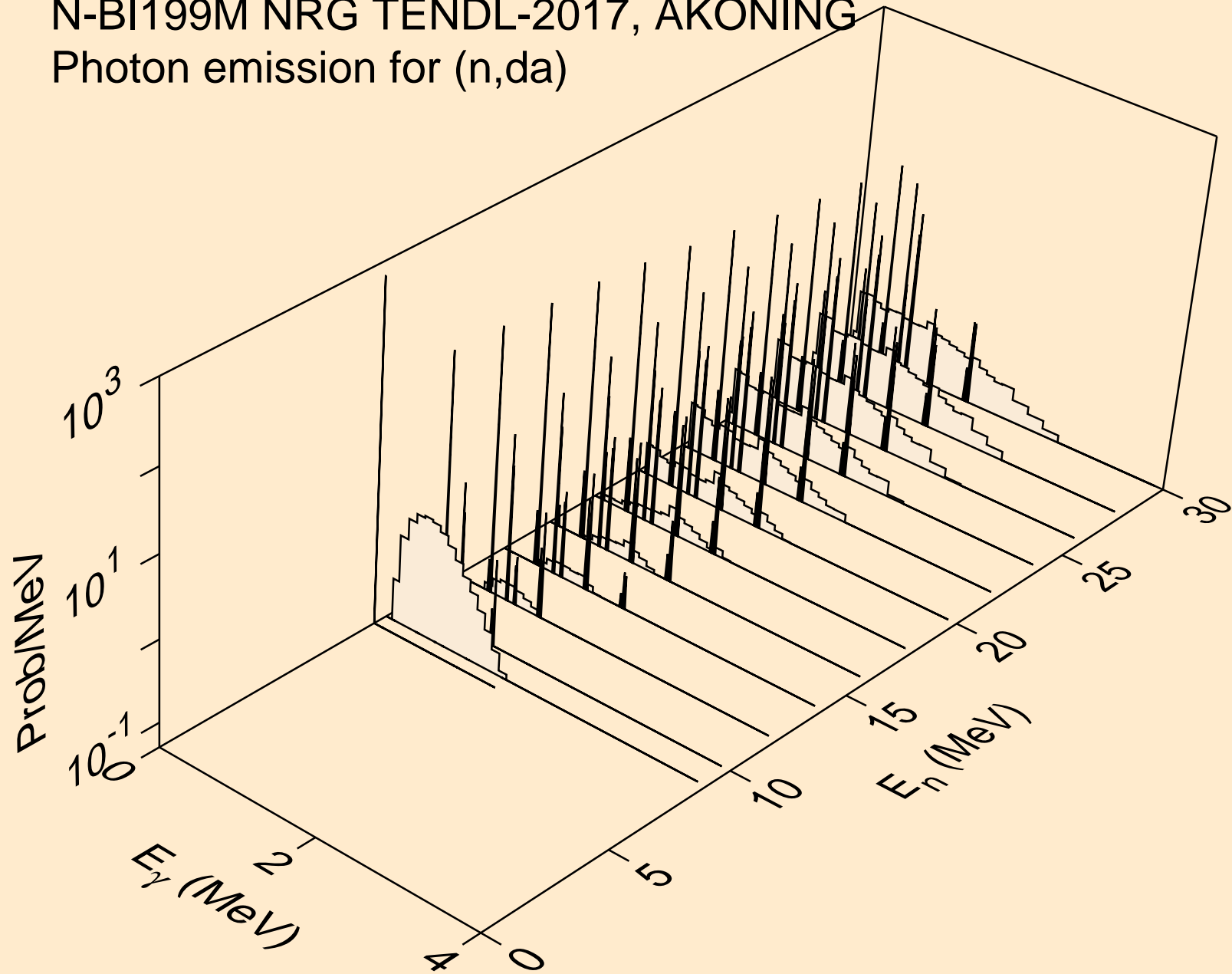




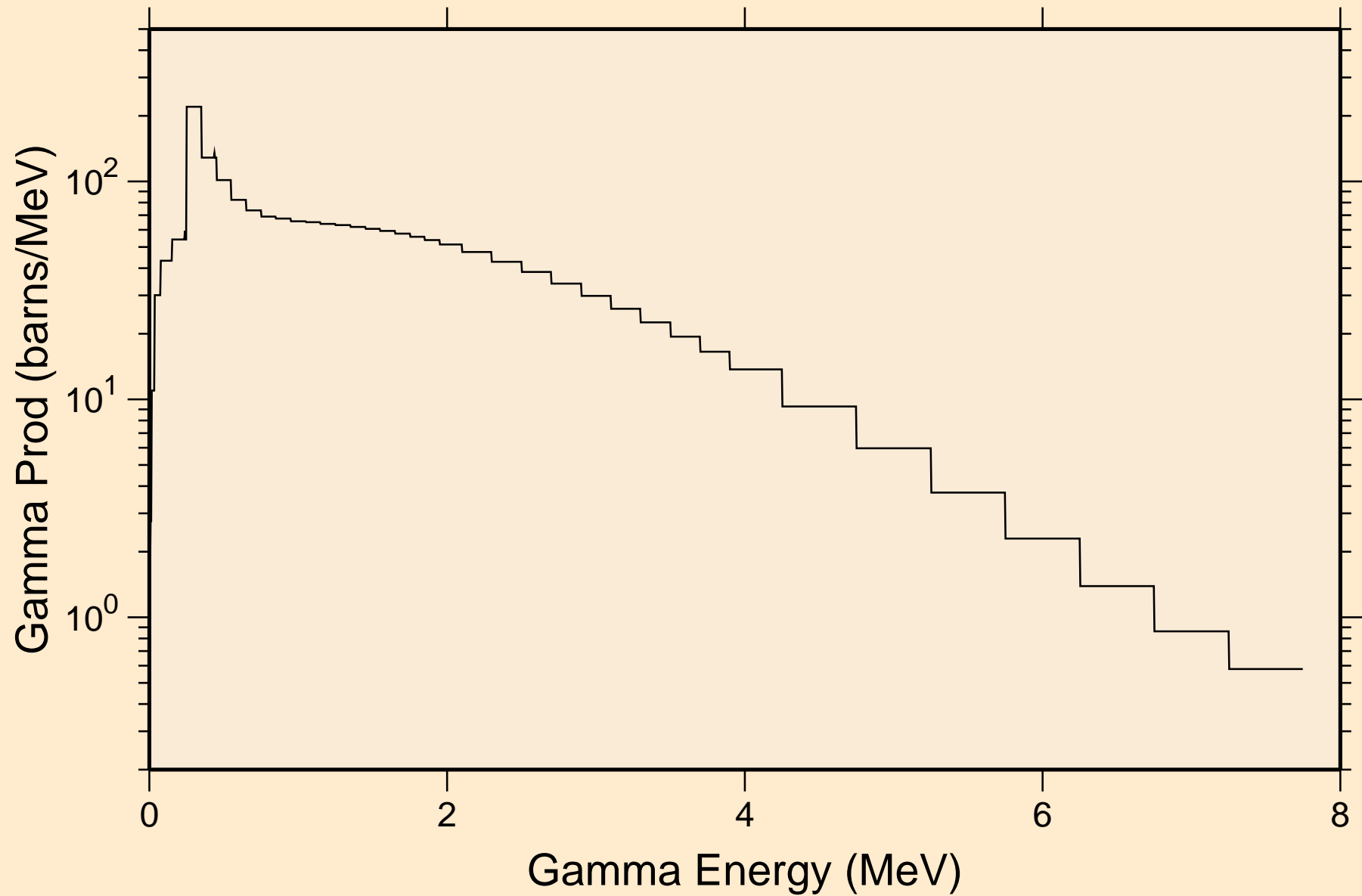
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Photon emission for (n,pt)



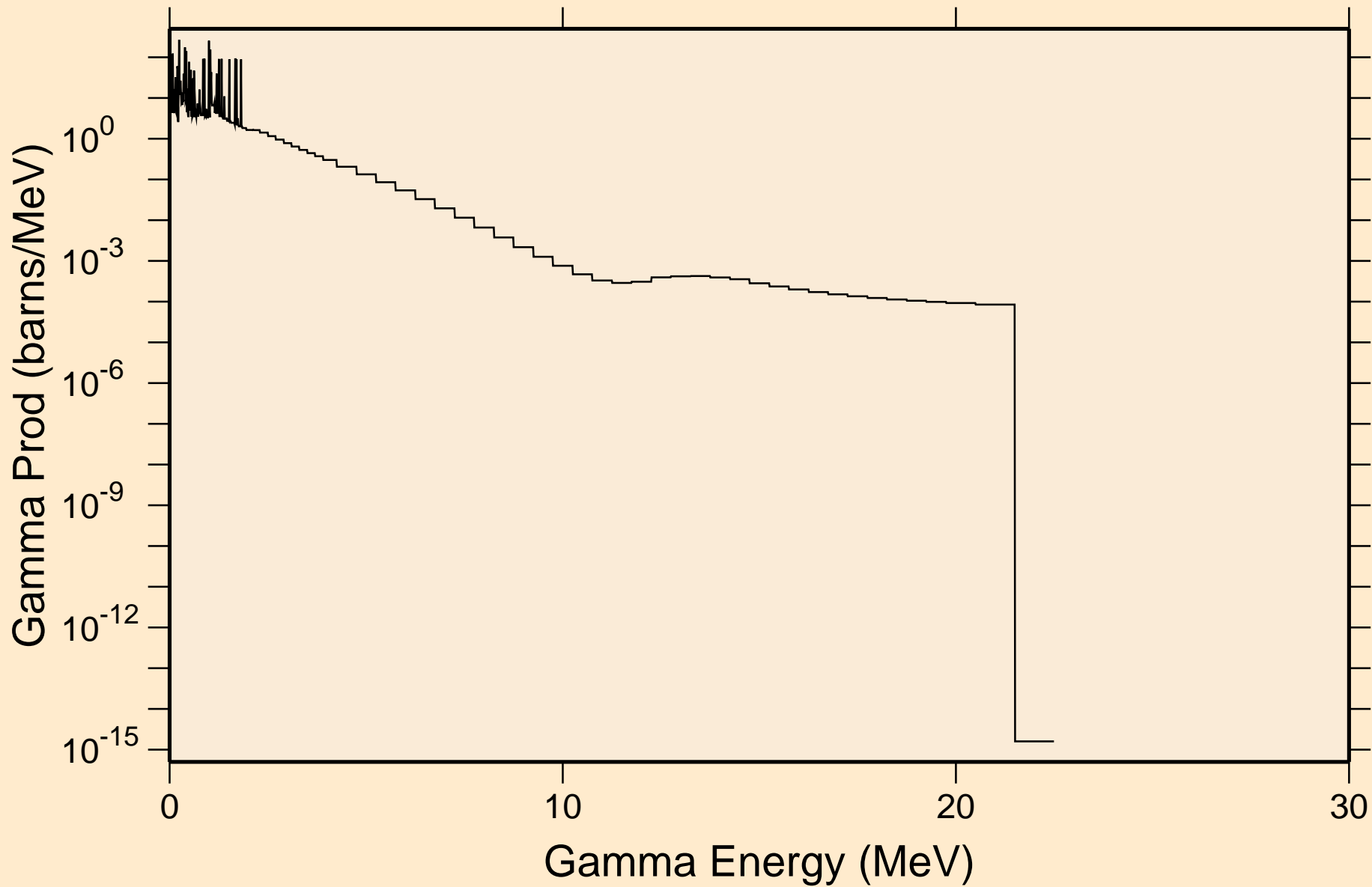
N-BI199M NRG TENDL-2017, AKONING  
Photon emission for (n,da)



N-BI199M NRG TENDL-2017, AKONING  
thermal capture photon spectrum

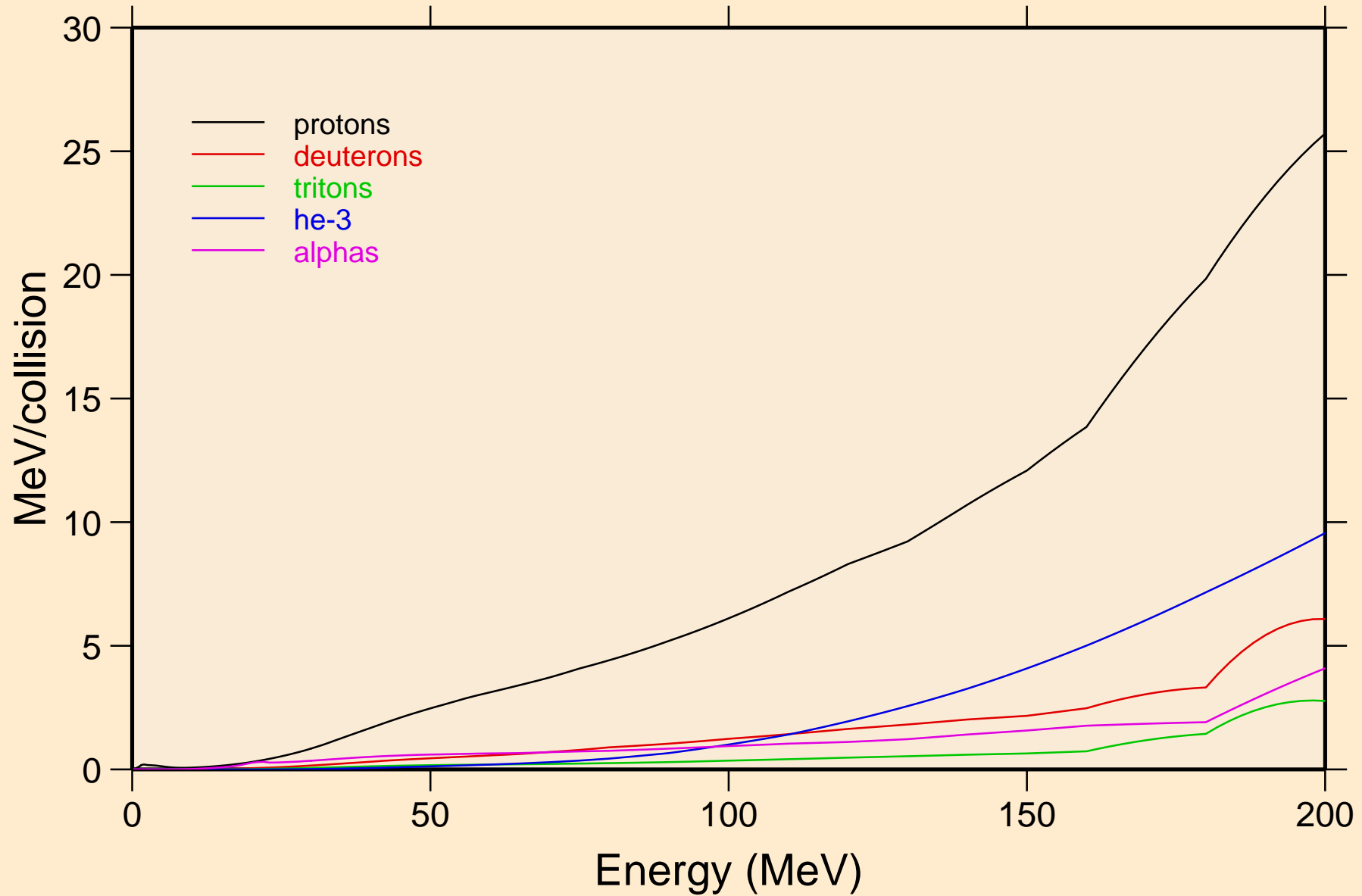


N-BI199M NRG TENDL-2017, AKONING  
14 MeV photon spectrum



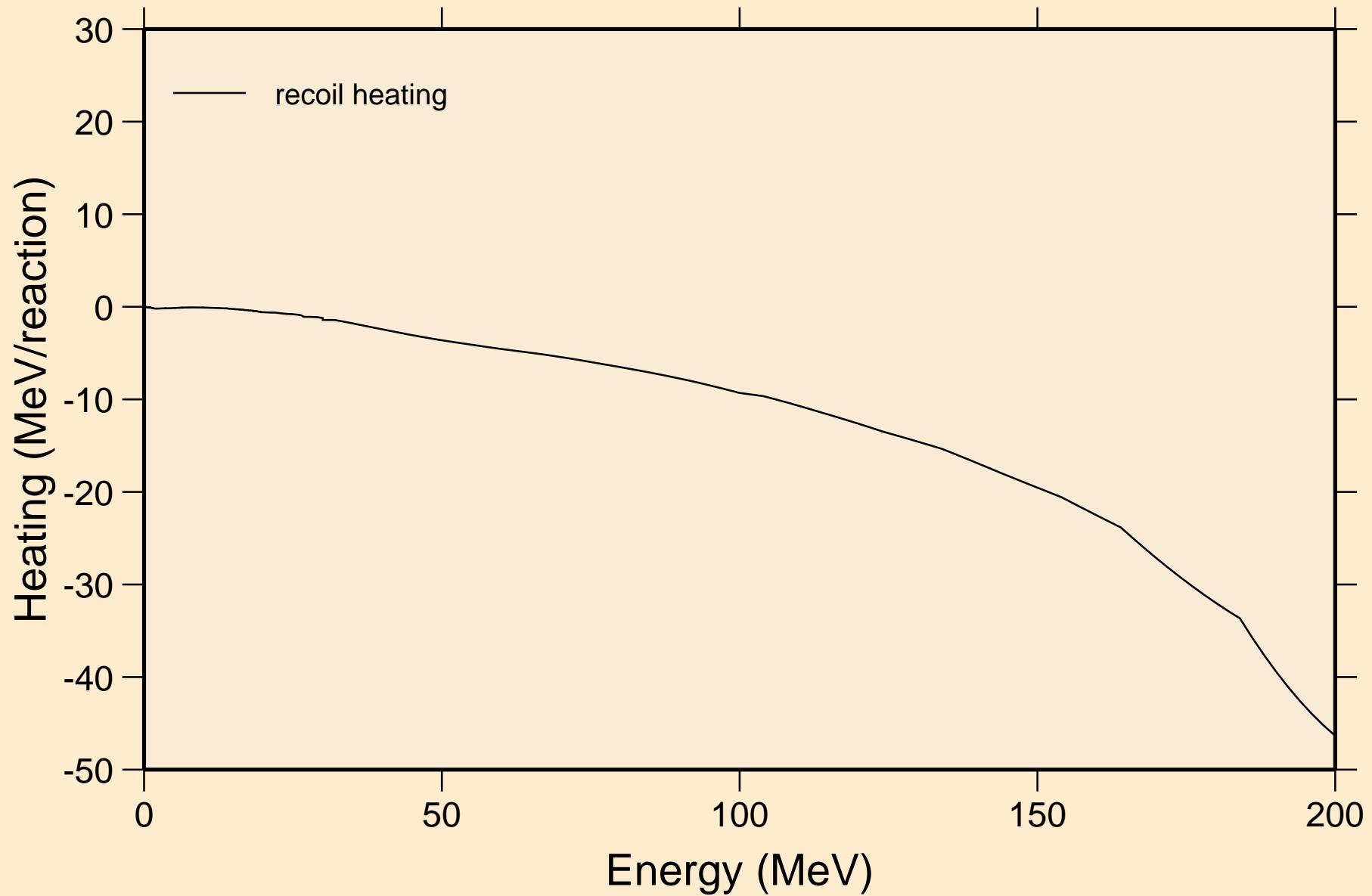
# N-BI199M NRG TENDL-2017, AKONING

## Particle heating contributions



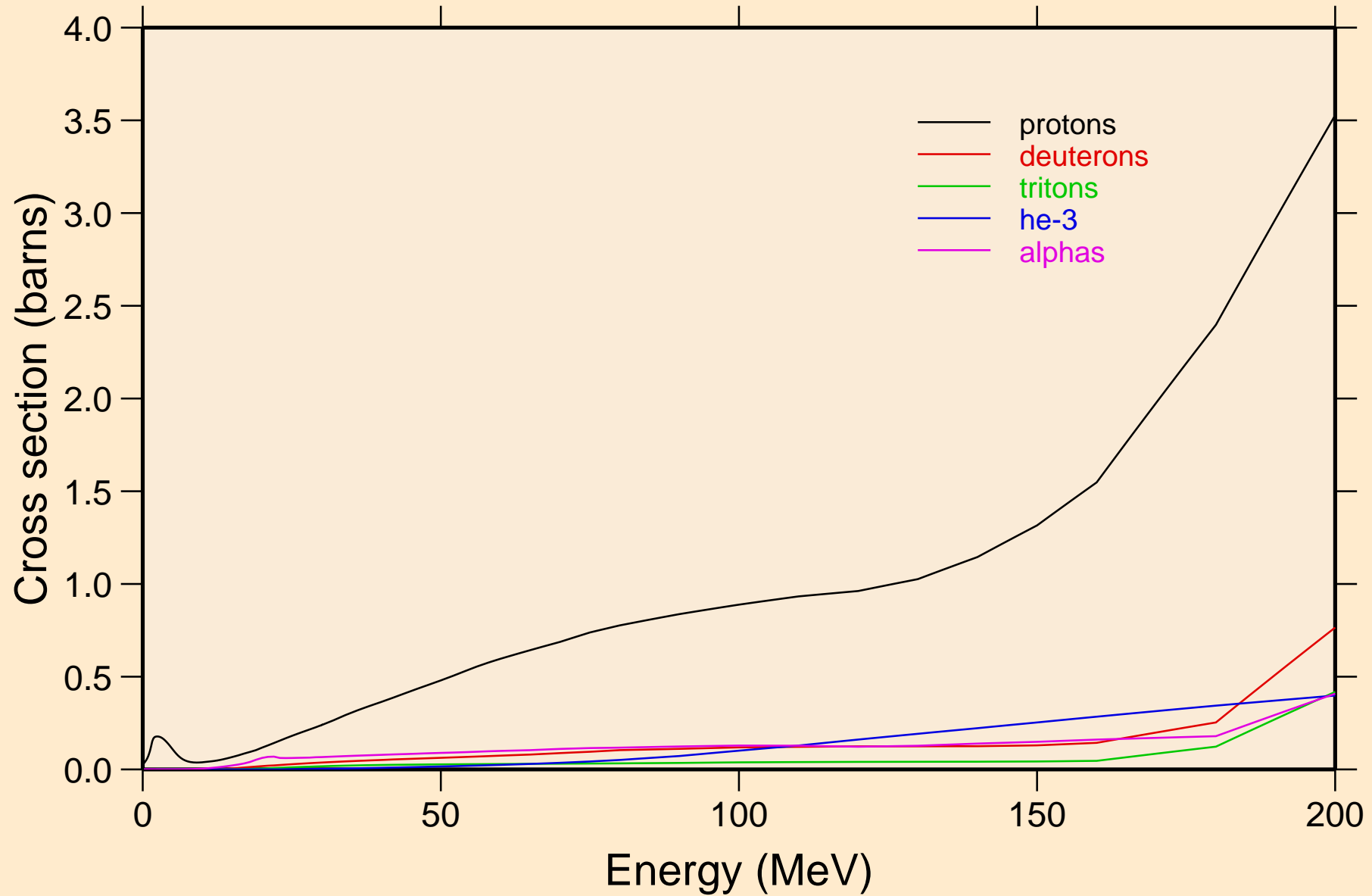
# N-BI199M NRG TENDL-2017, AKONING

## Recoil Heating

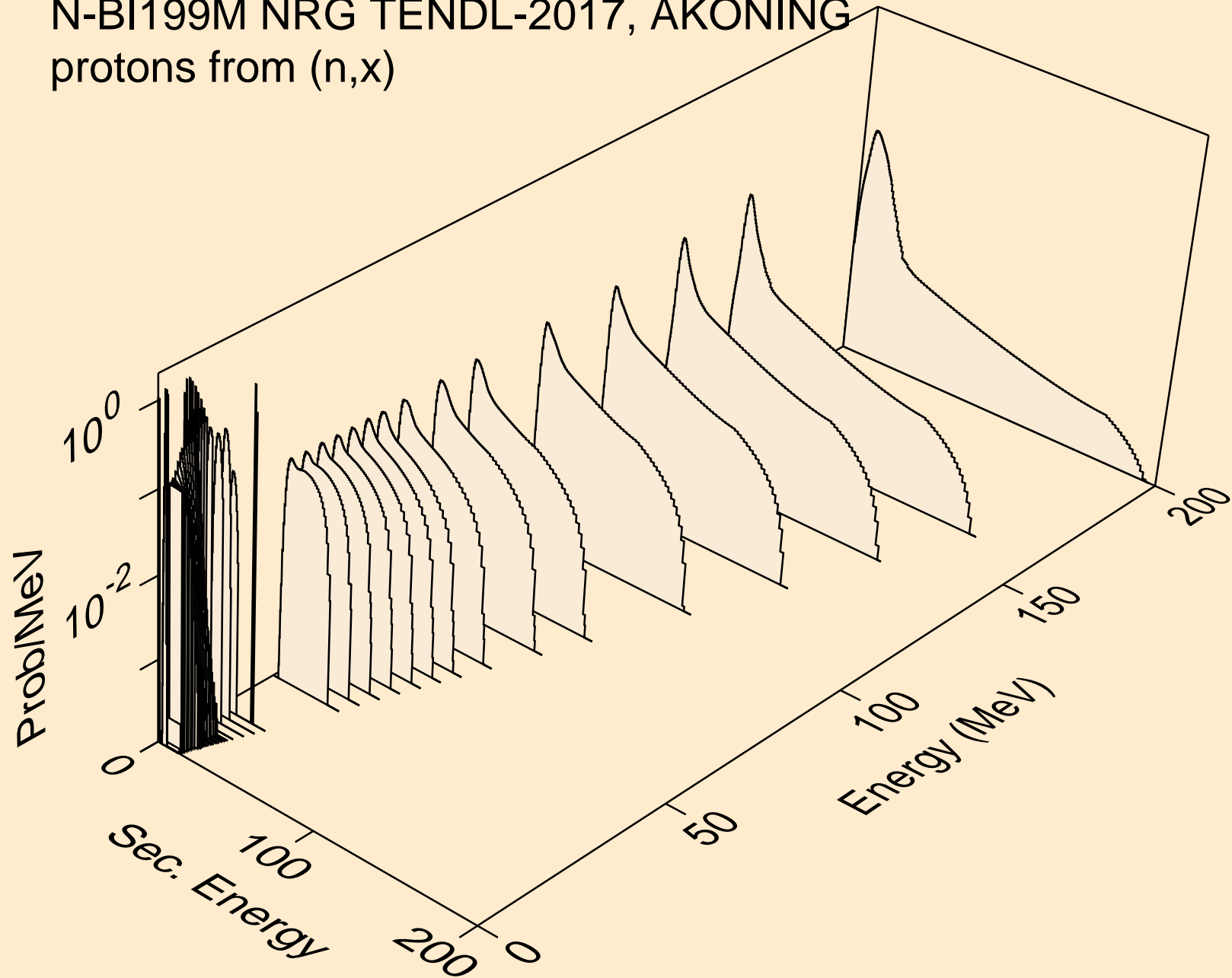


# N-BI199M NRG TENDL-2017, AKONING

## Particle production cross sections

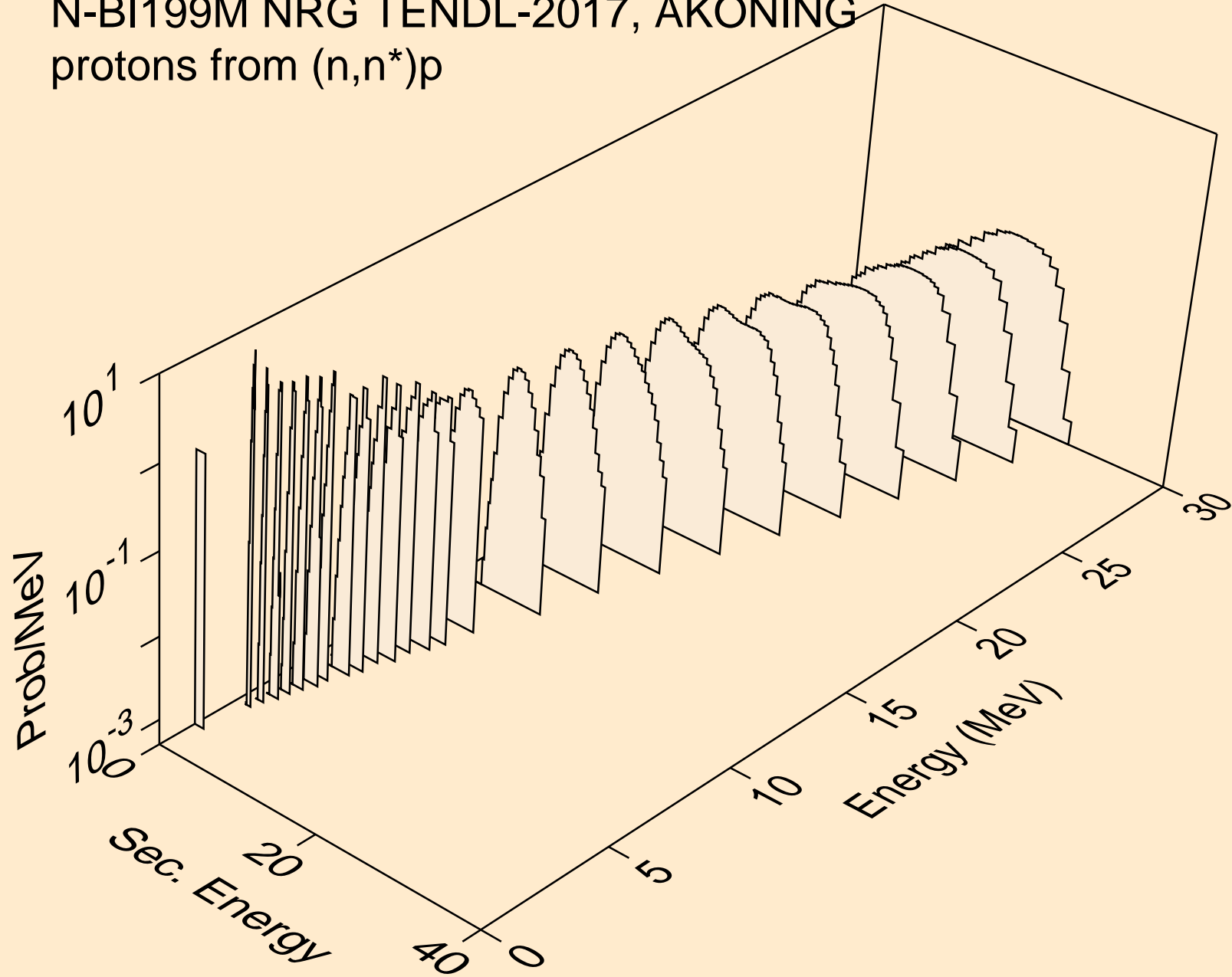


N-BI199M NRG TENDL-2017, AKONING  
protons from (n,x)

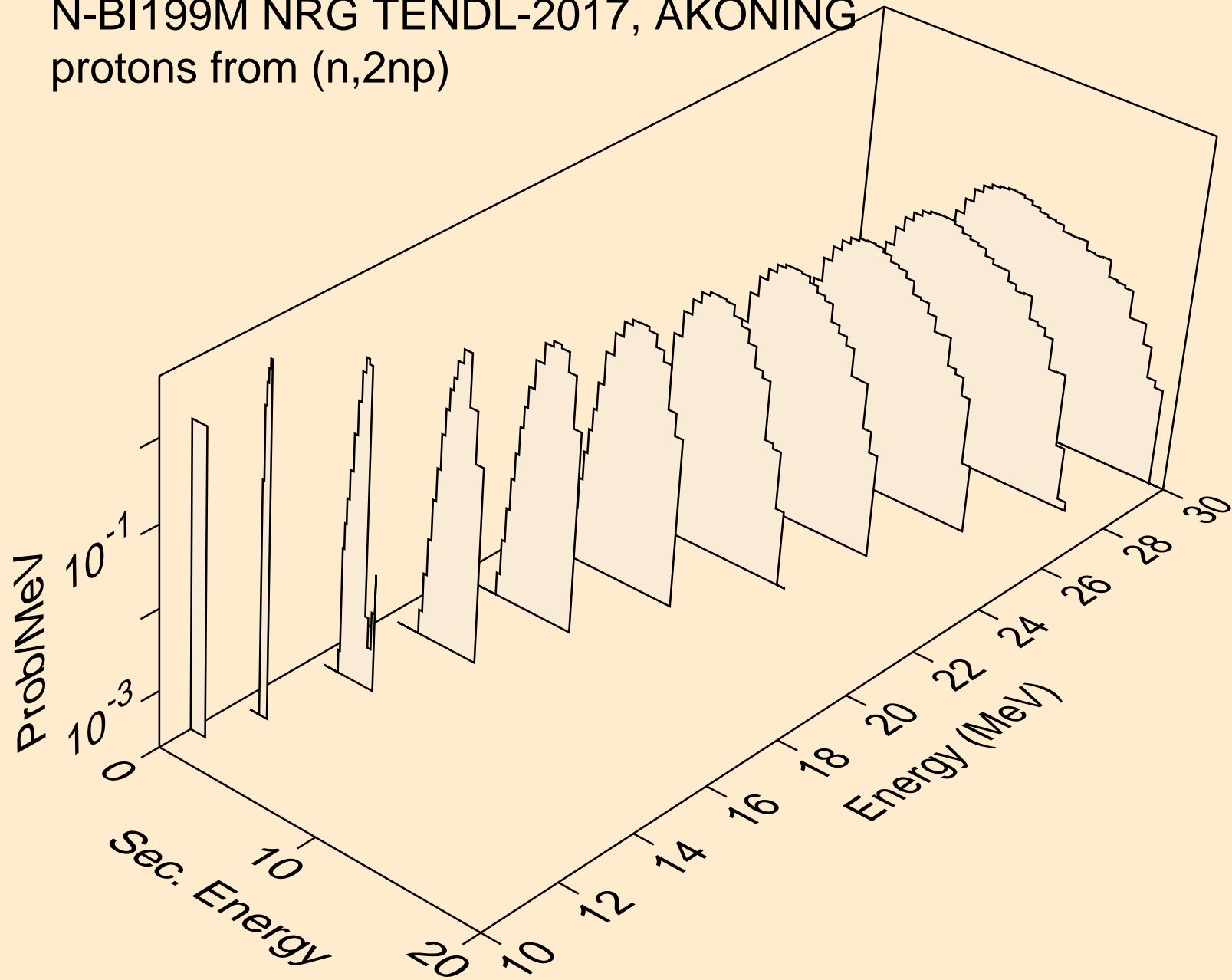




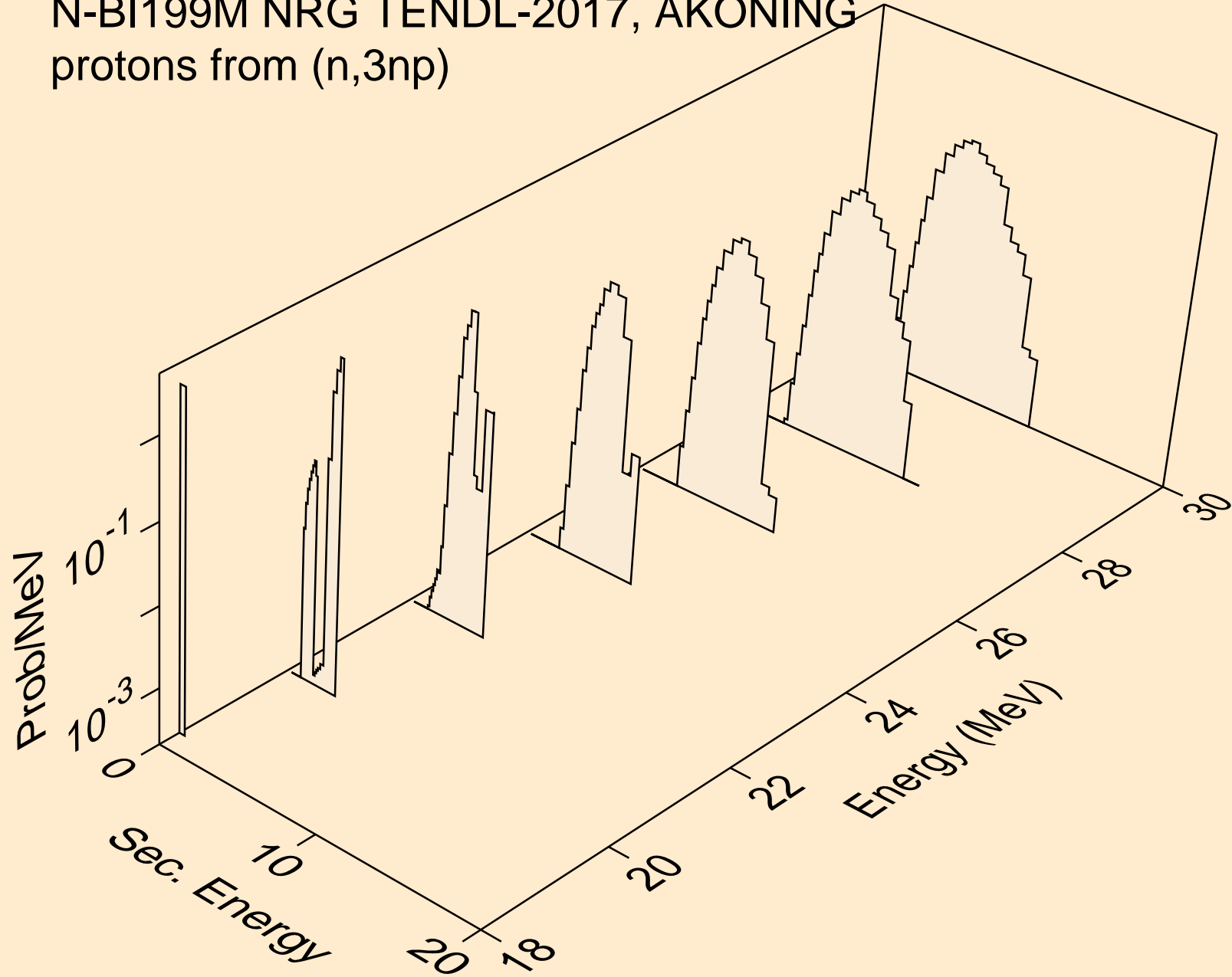
N-BI199M NRG TENDL-2017, AKONING  
protons from (n,n\*)p



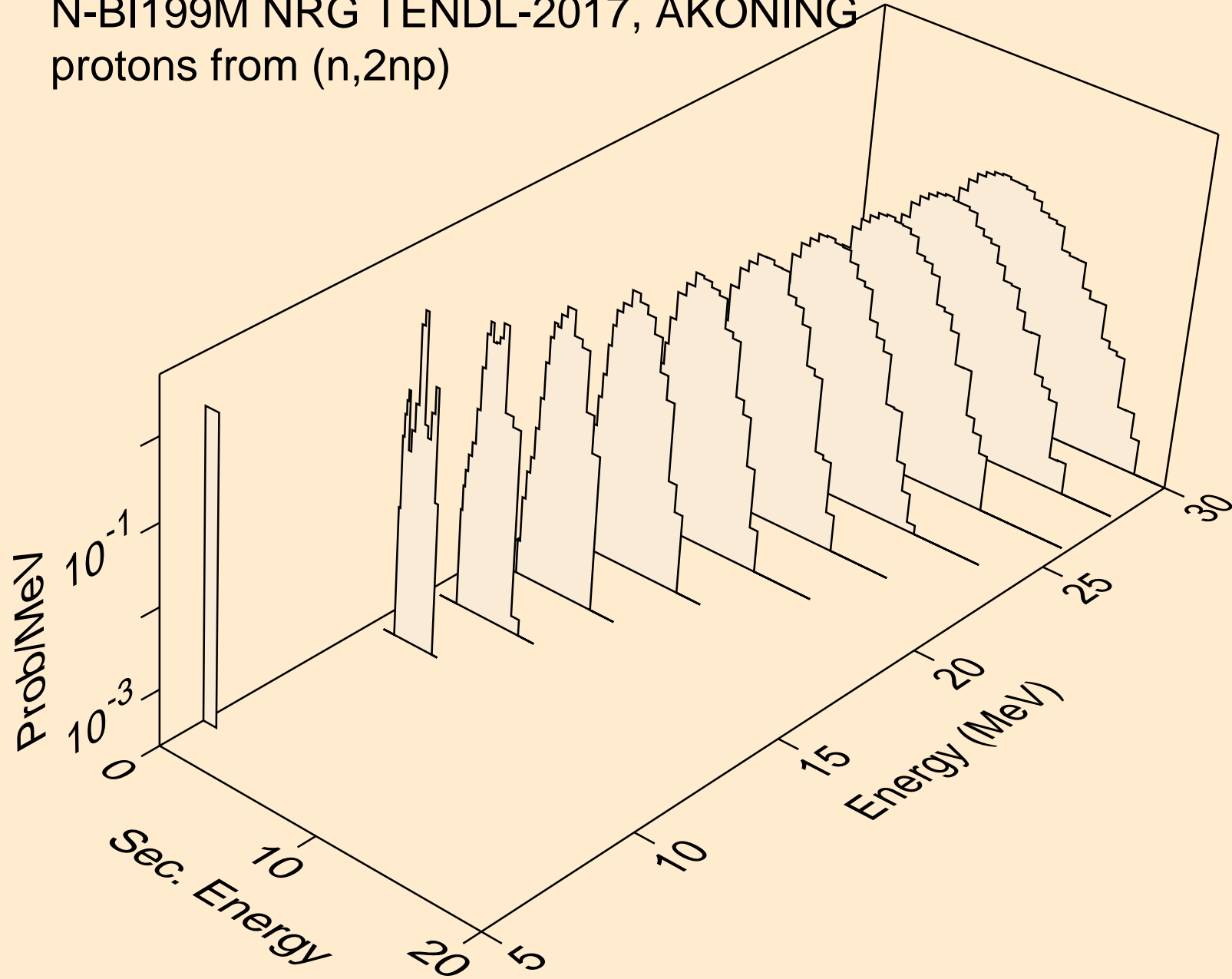
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protons from (n,2np)



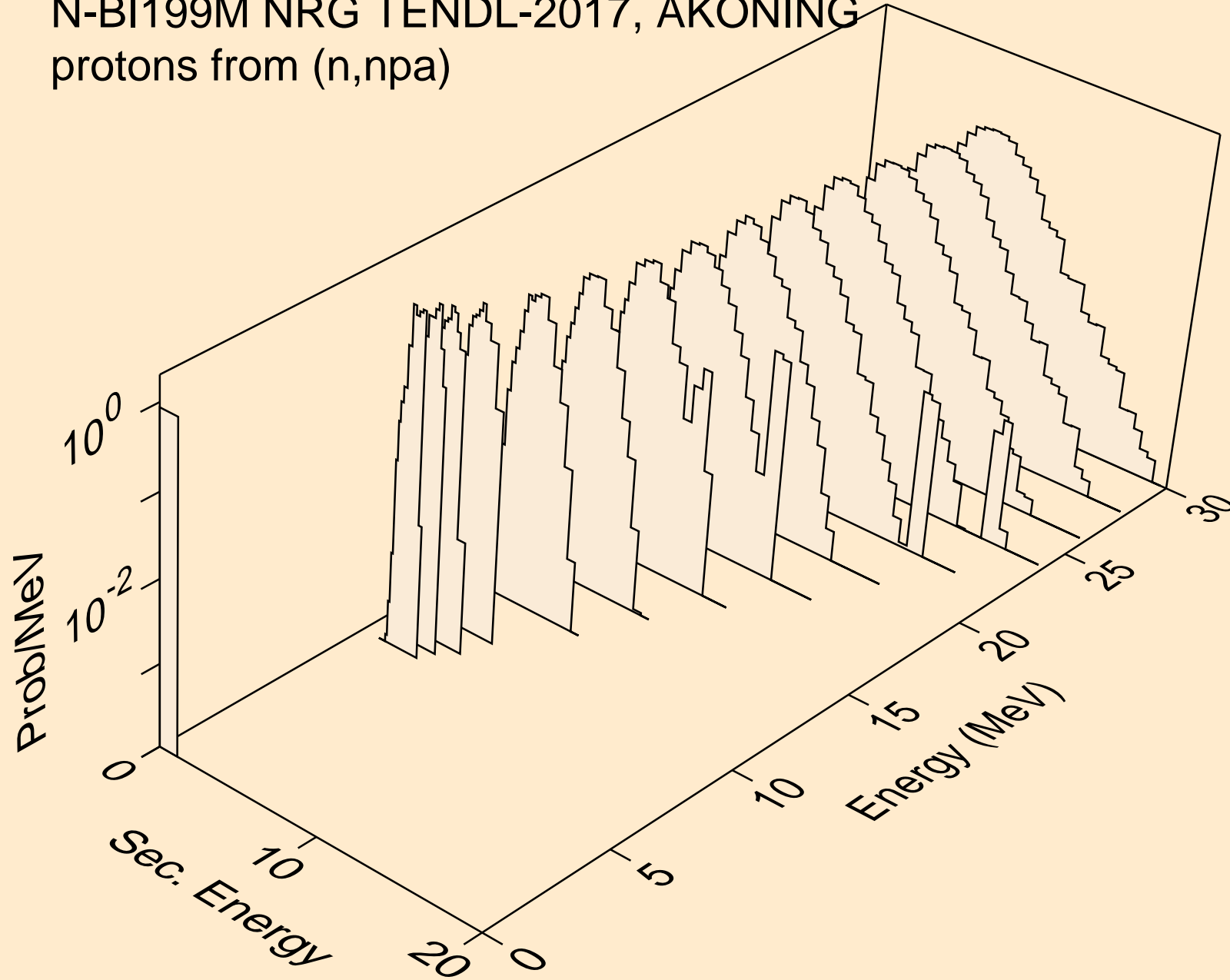
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protons from (n,3np)



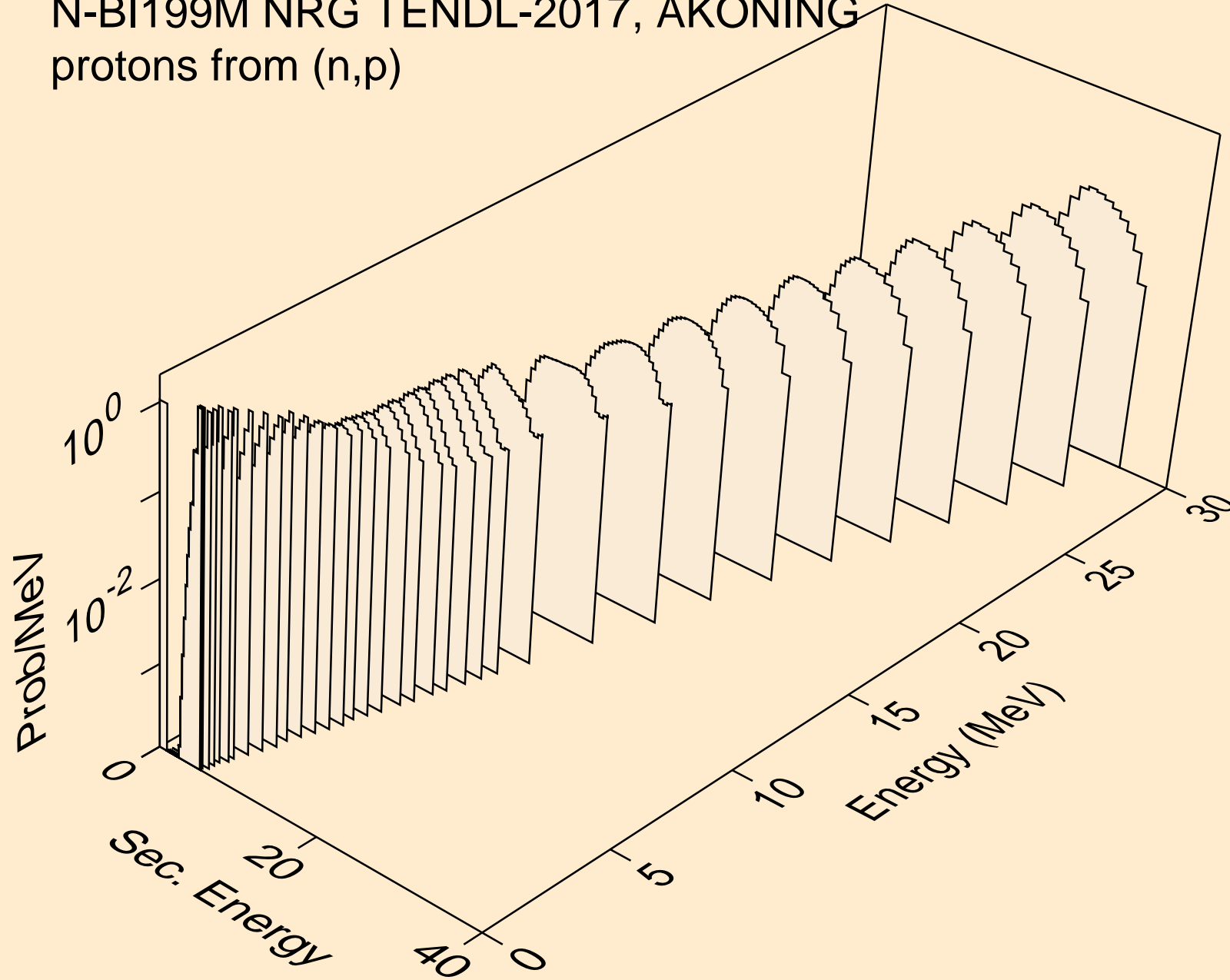
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protons from (n,2np)



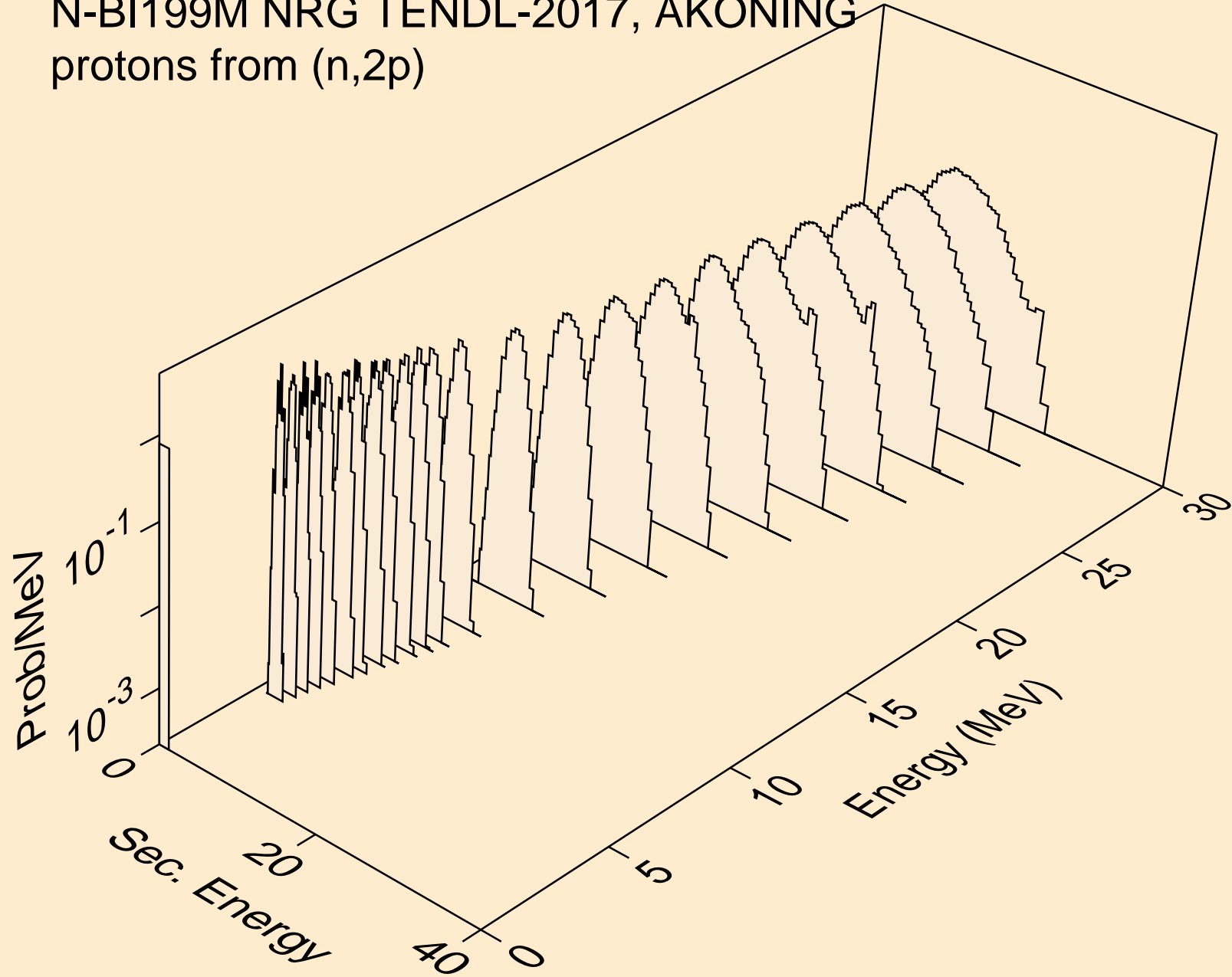
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protons from (n,npa)



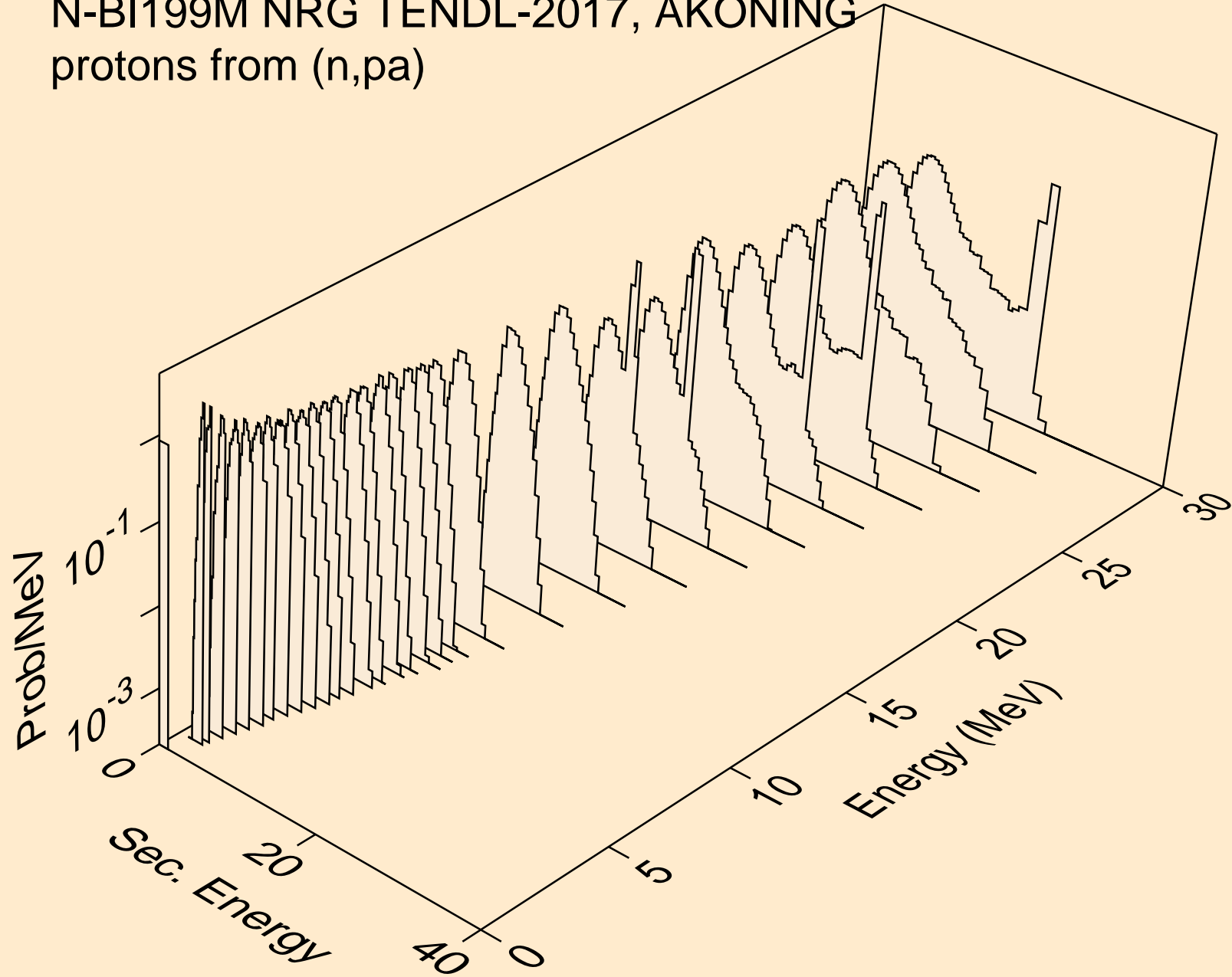
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protons from (n,p)



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protons from (n,2p)

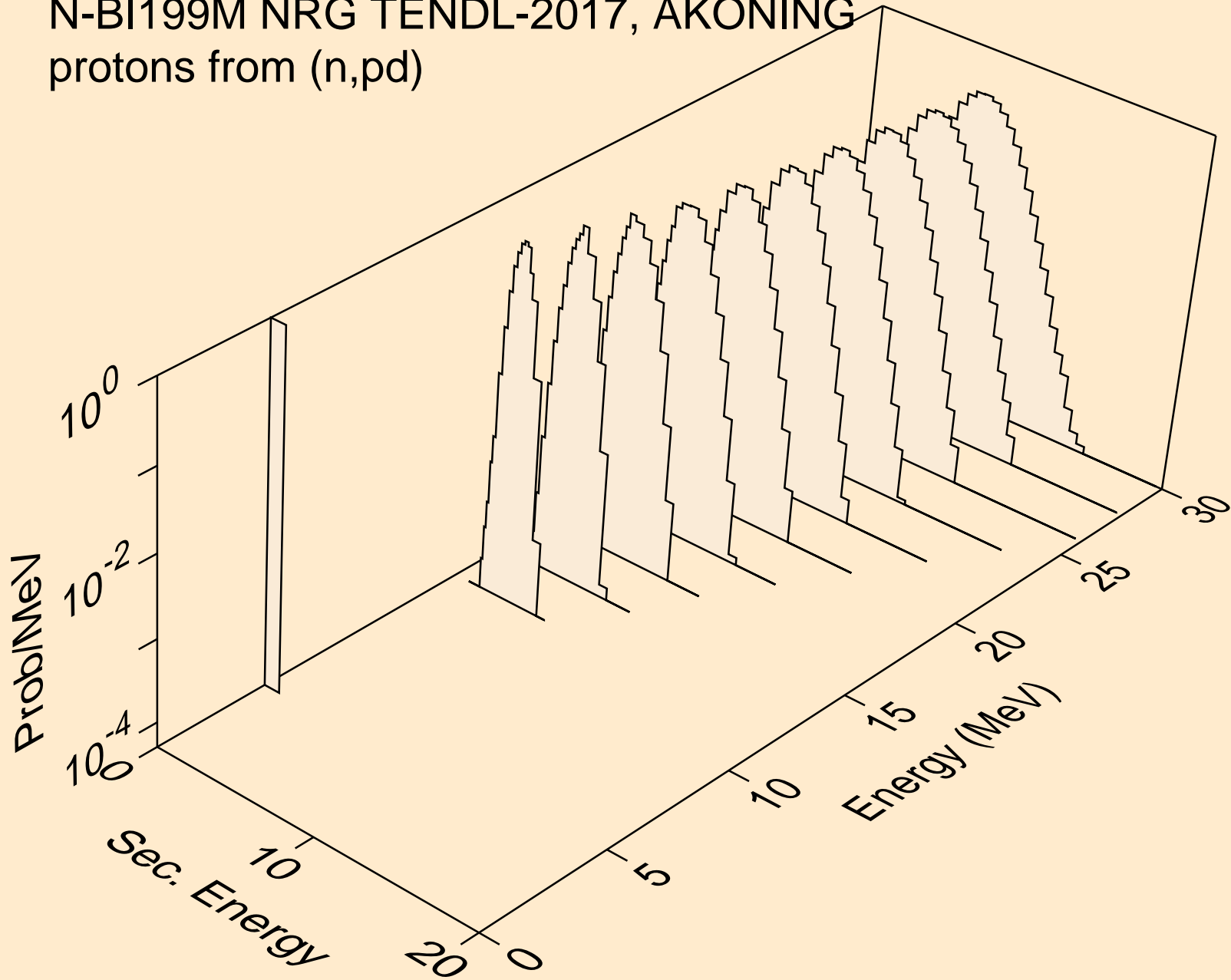


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protons from (n,pa)

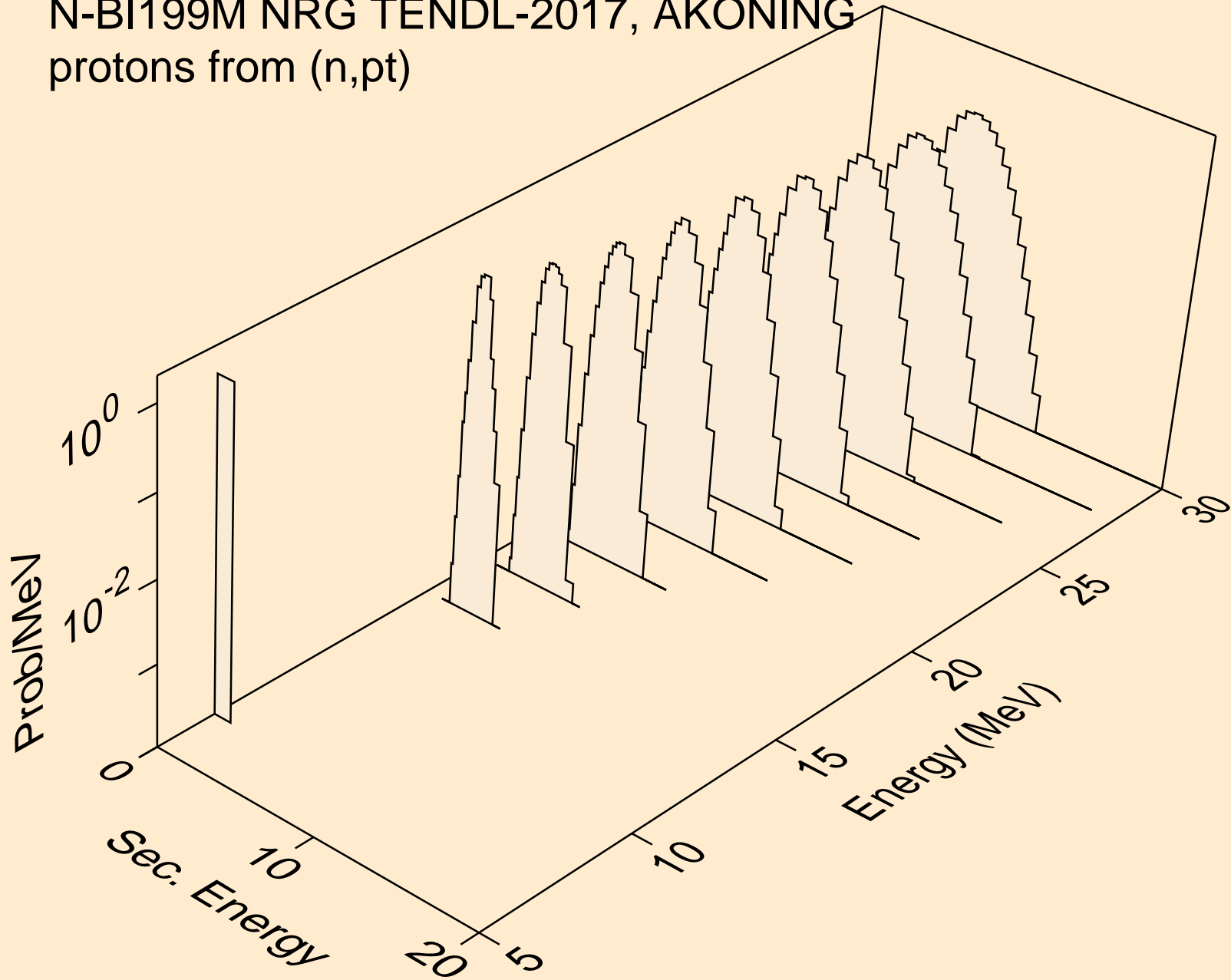




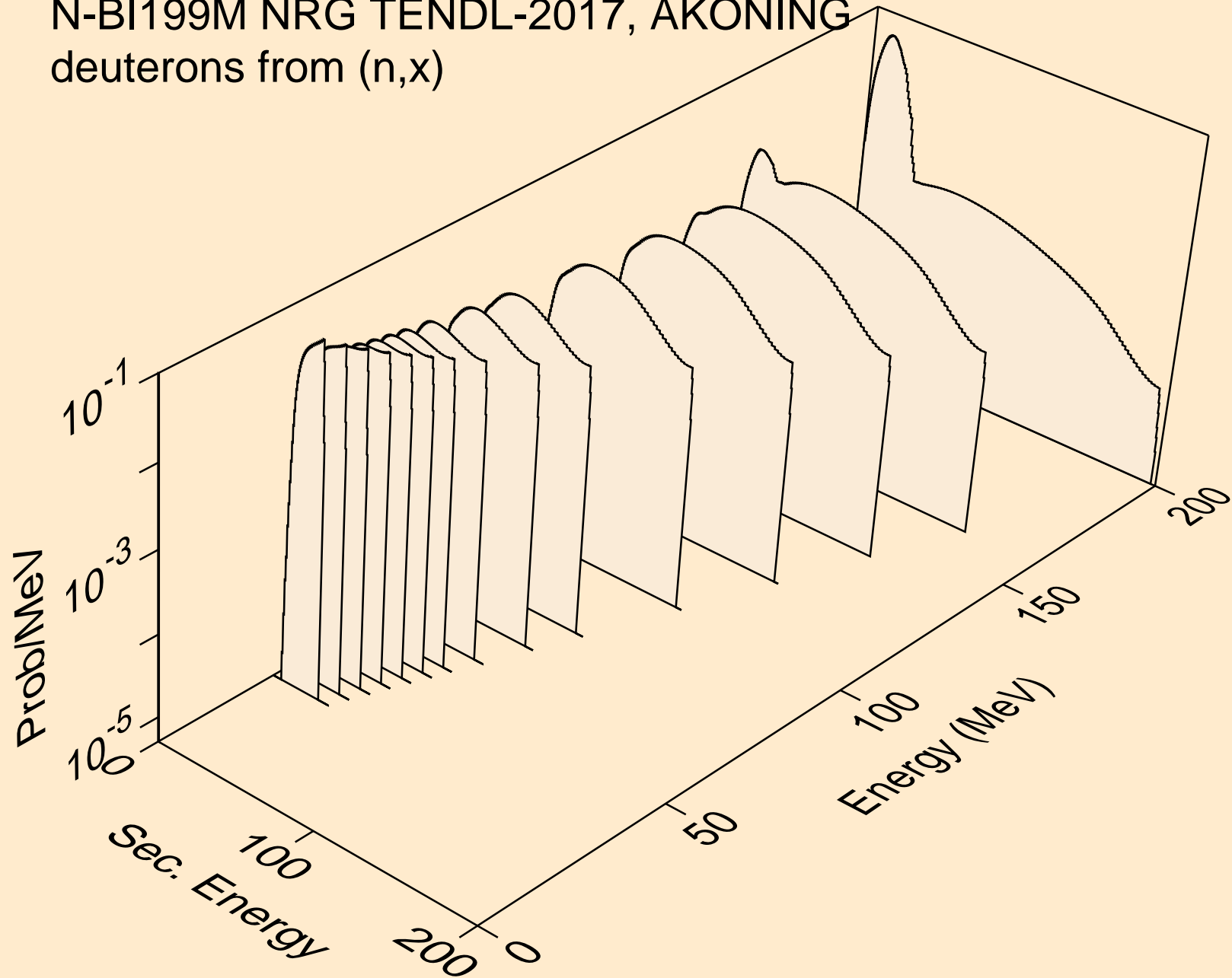
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protons from (n,pd)



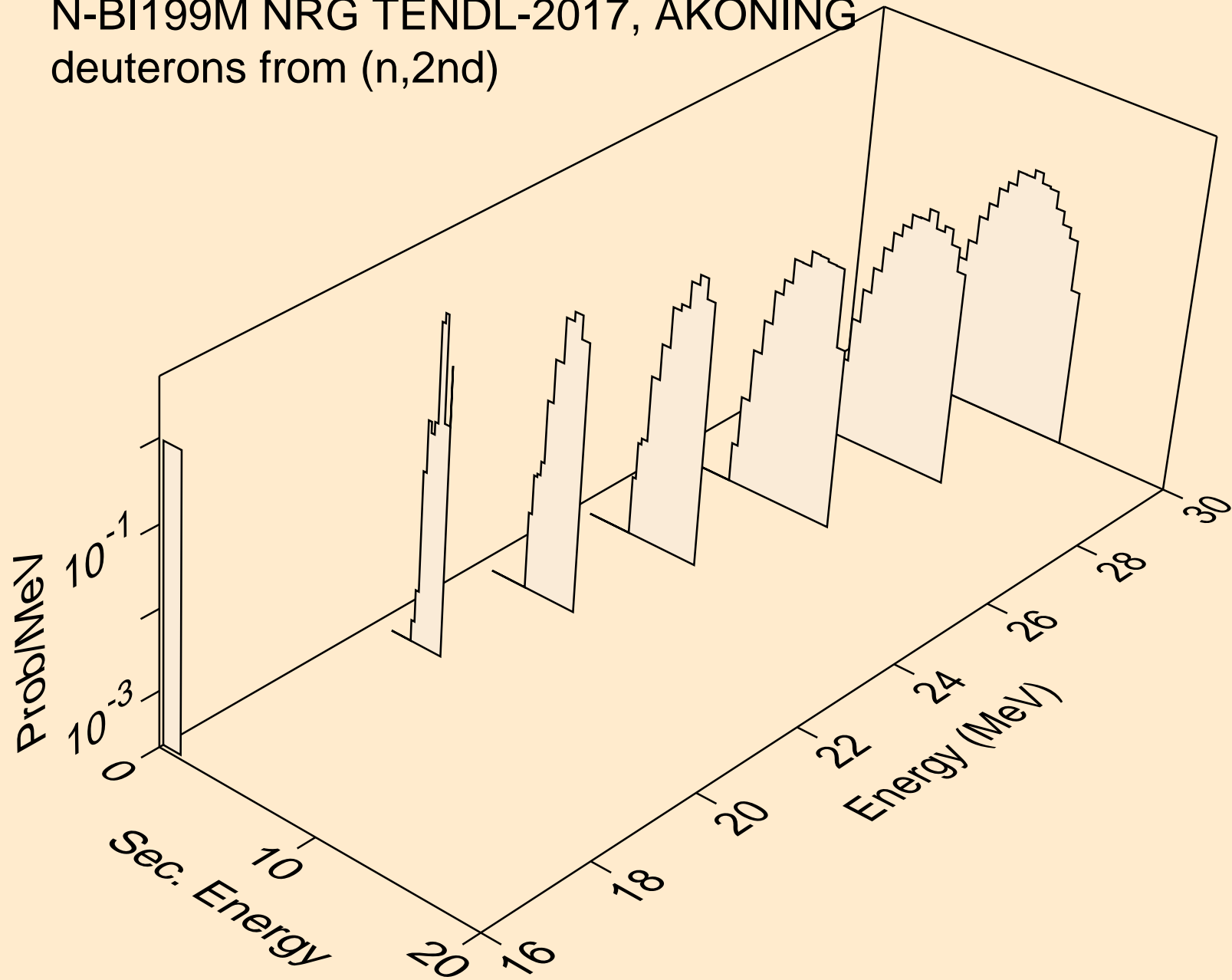
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protons from (n,pt)



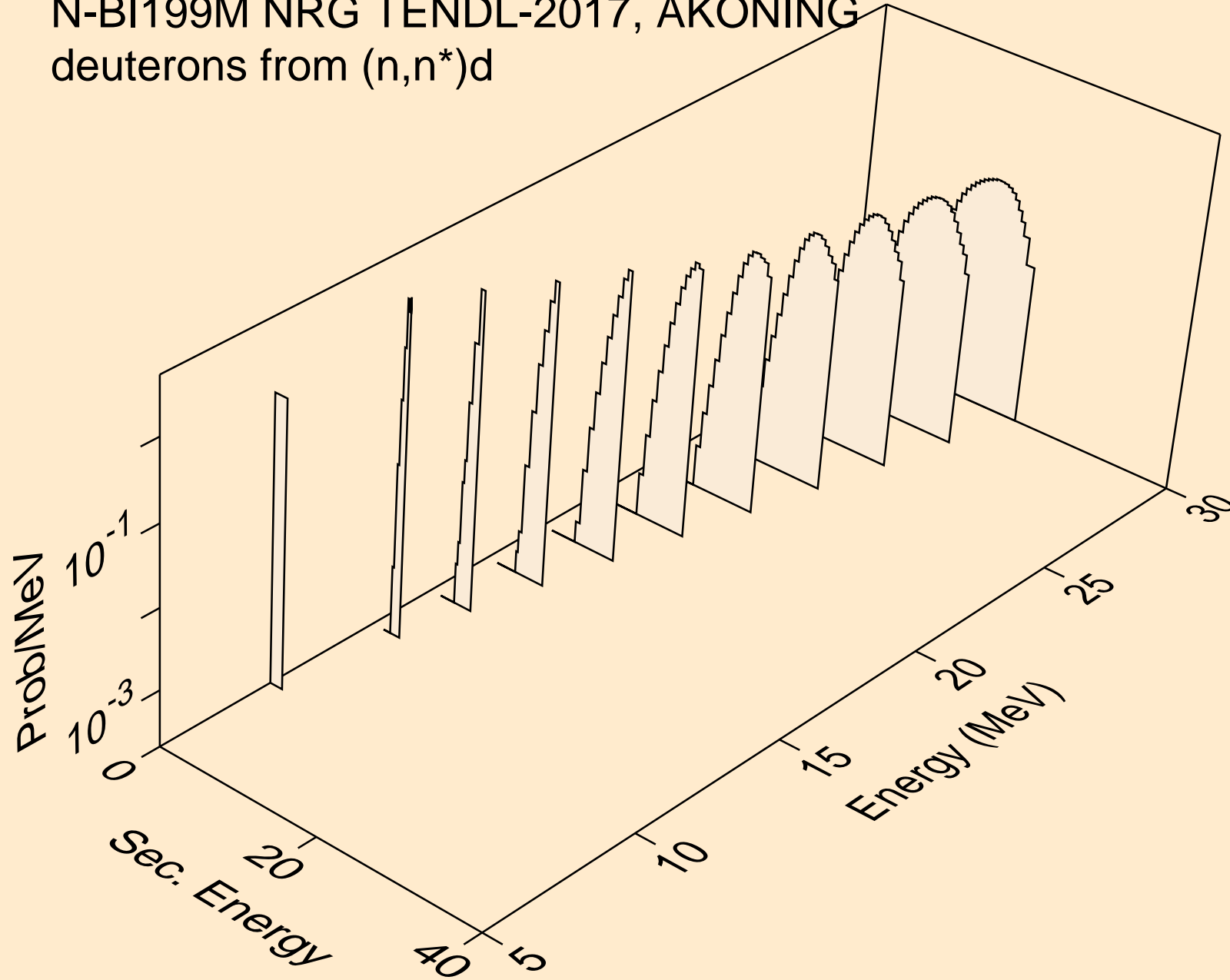
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deuterons from (n,x)



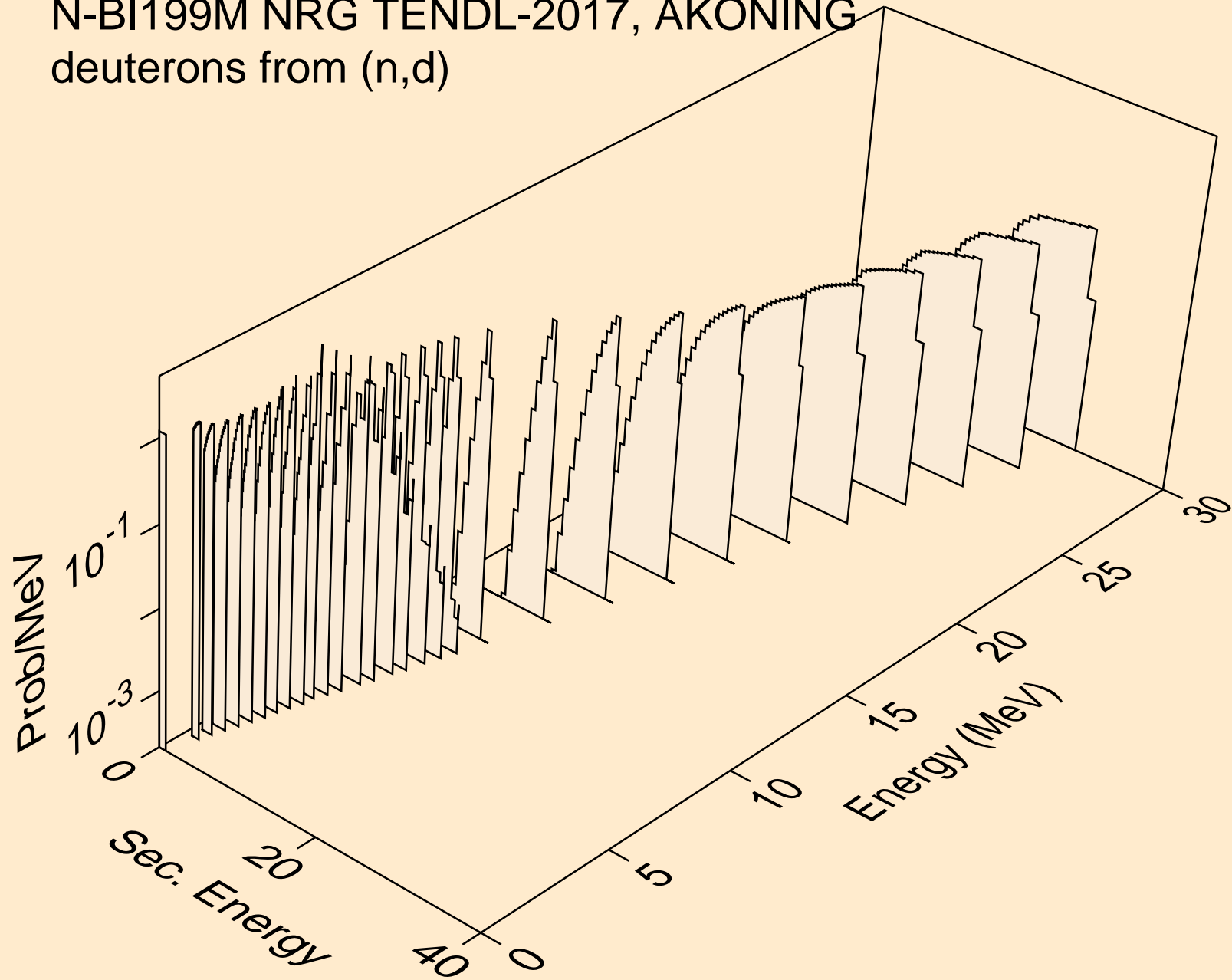
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deuterons from (n,2nd)



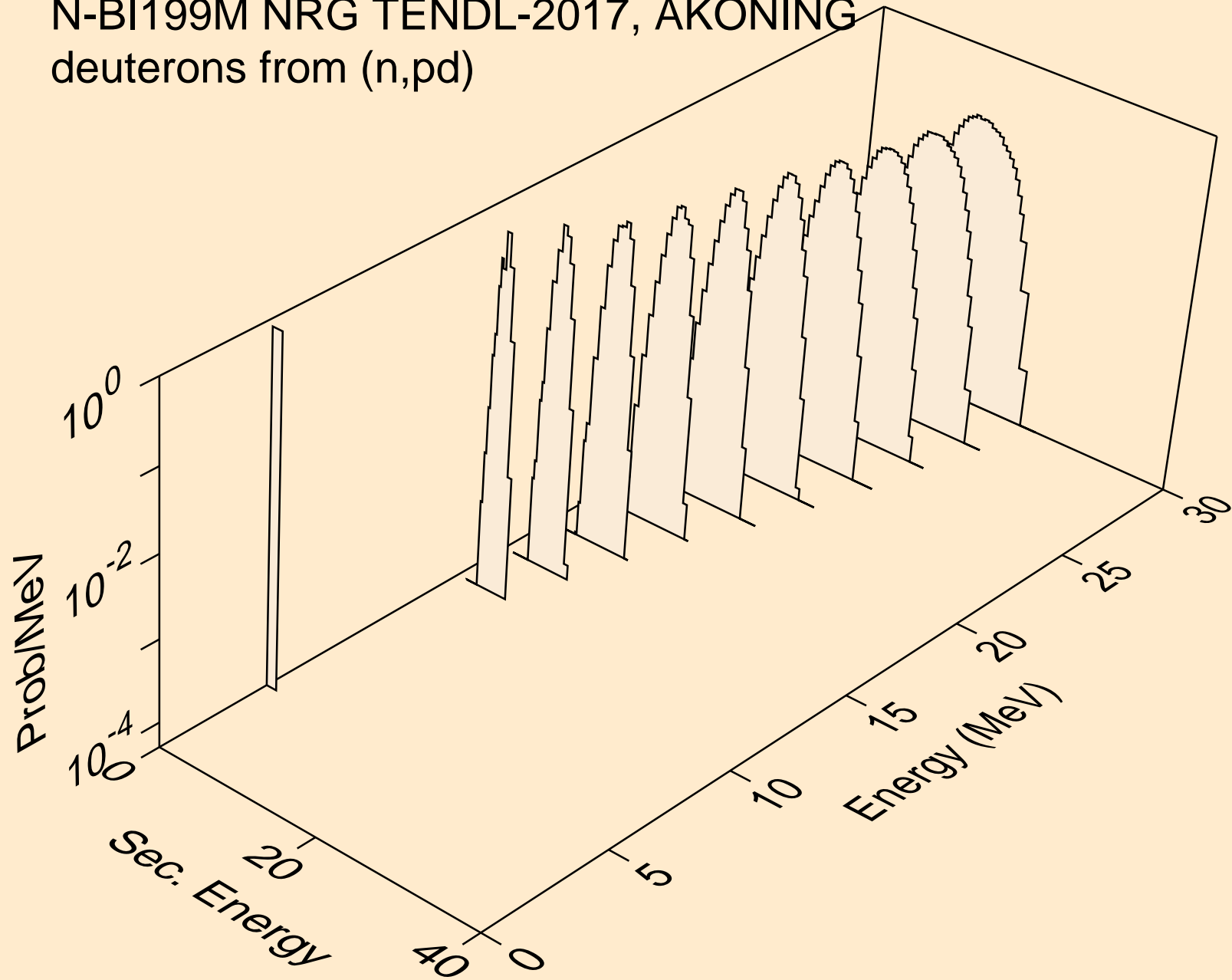
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deuterons from (n,n\*)d



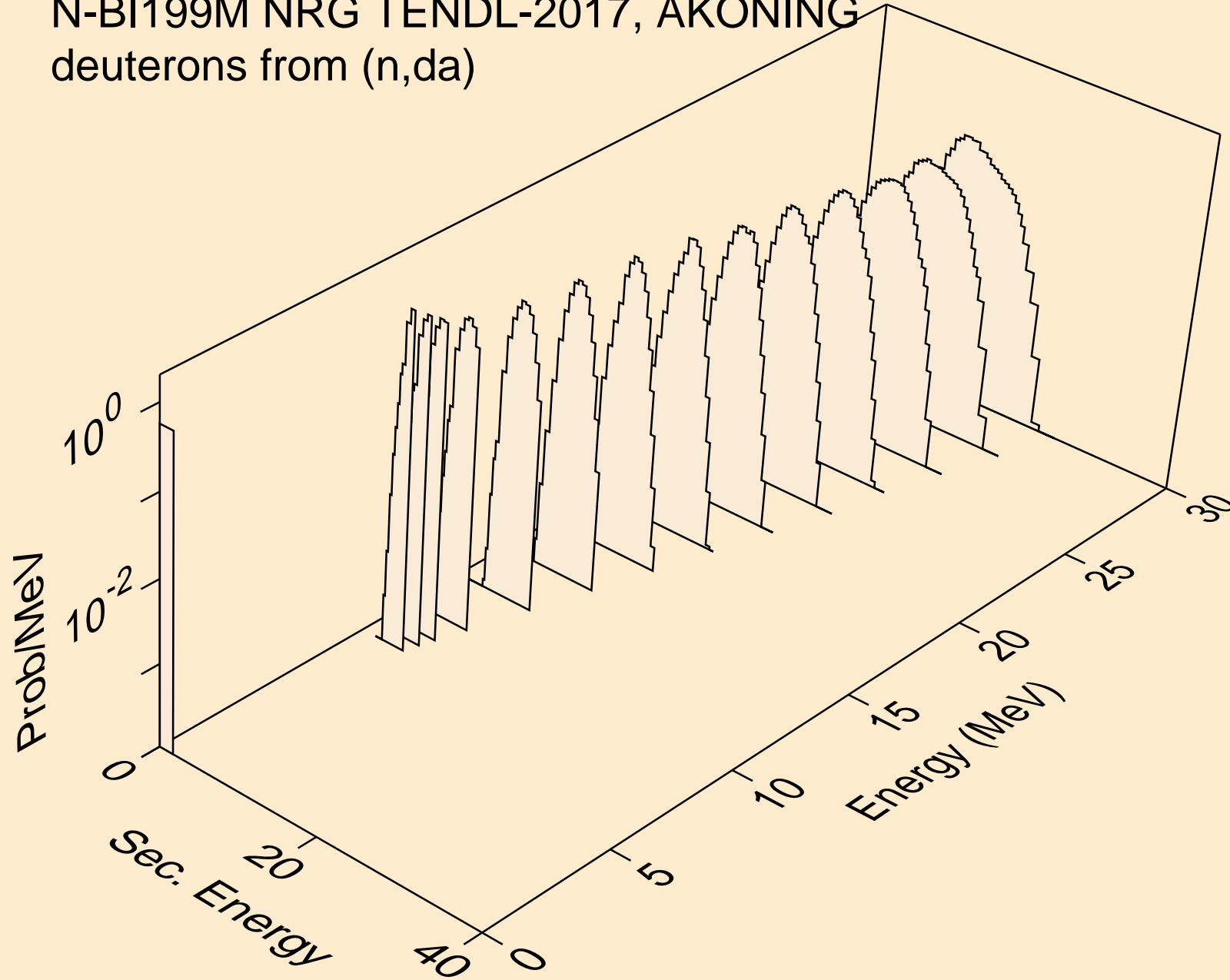
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deuterons from (n,d)



N-BI199M NRG TENDL-2017, AKONING  
deuterons from (n,pd)

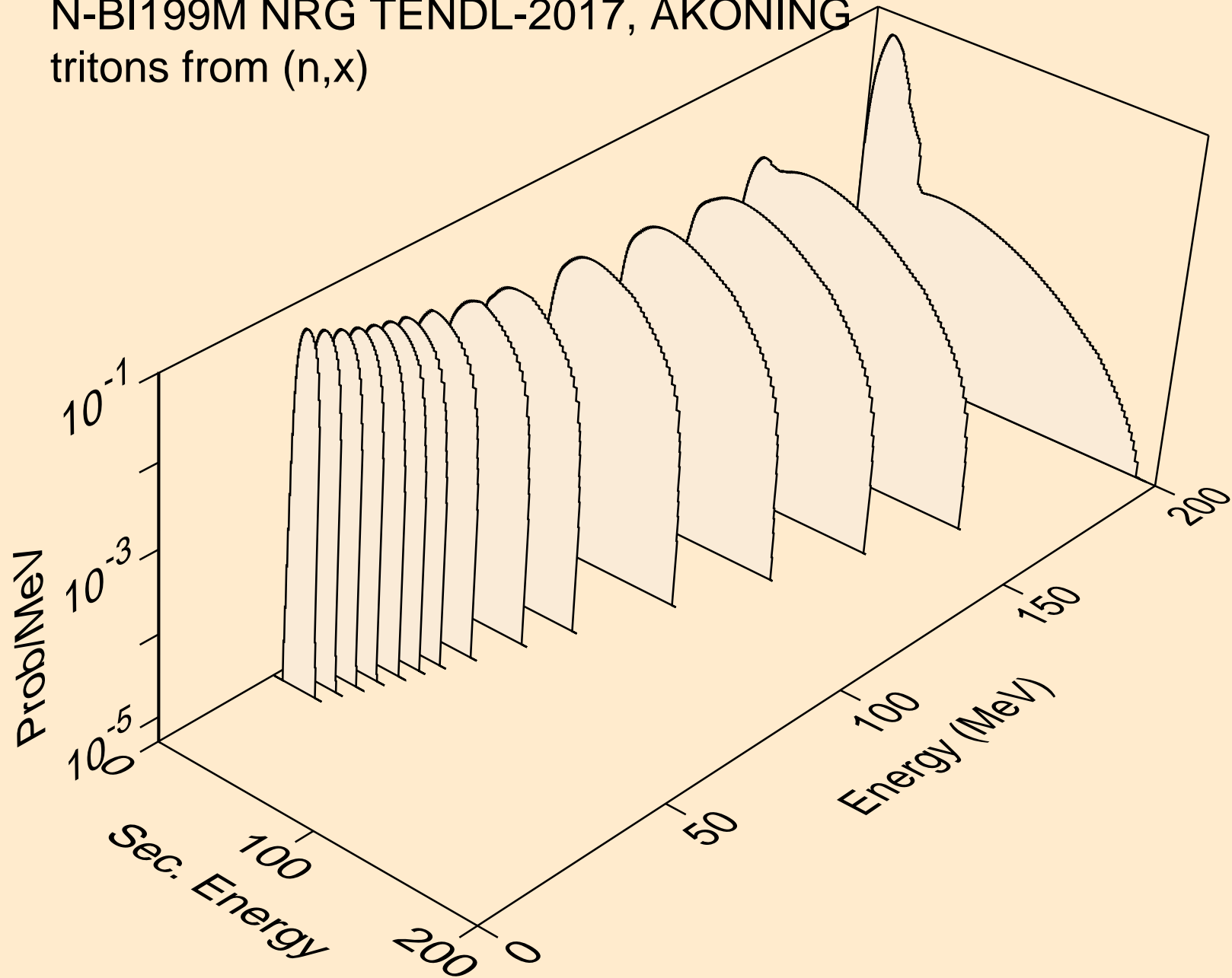


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deuterons from (n,da)

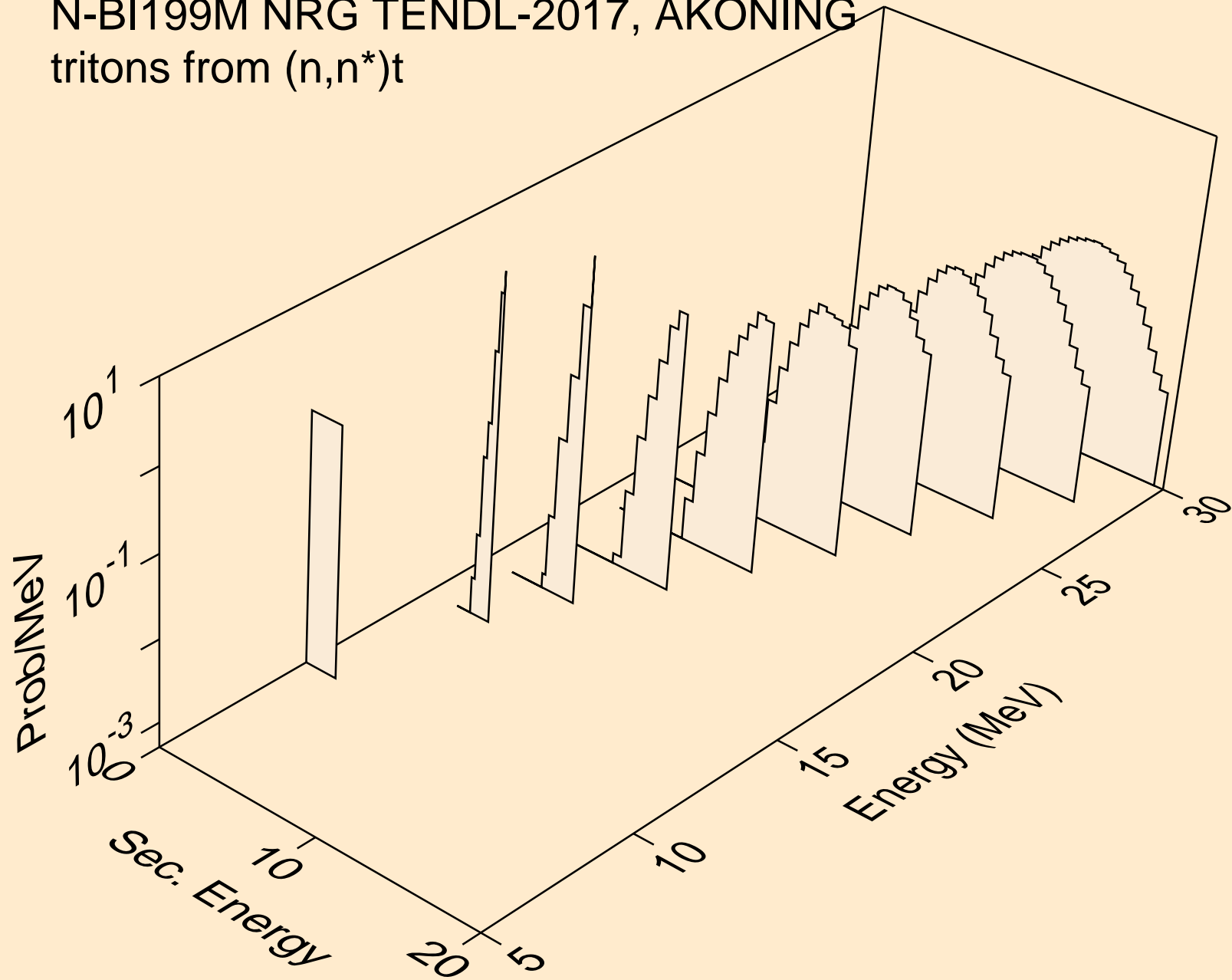




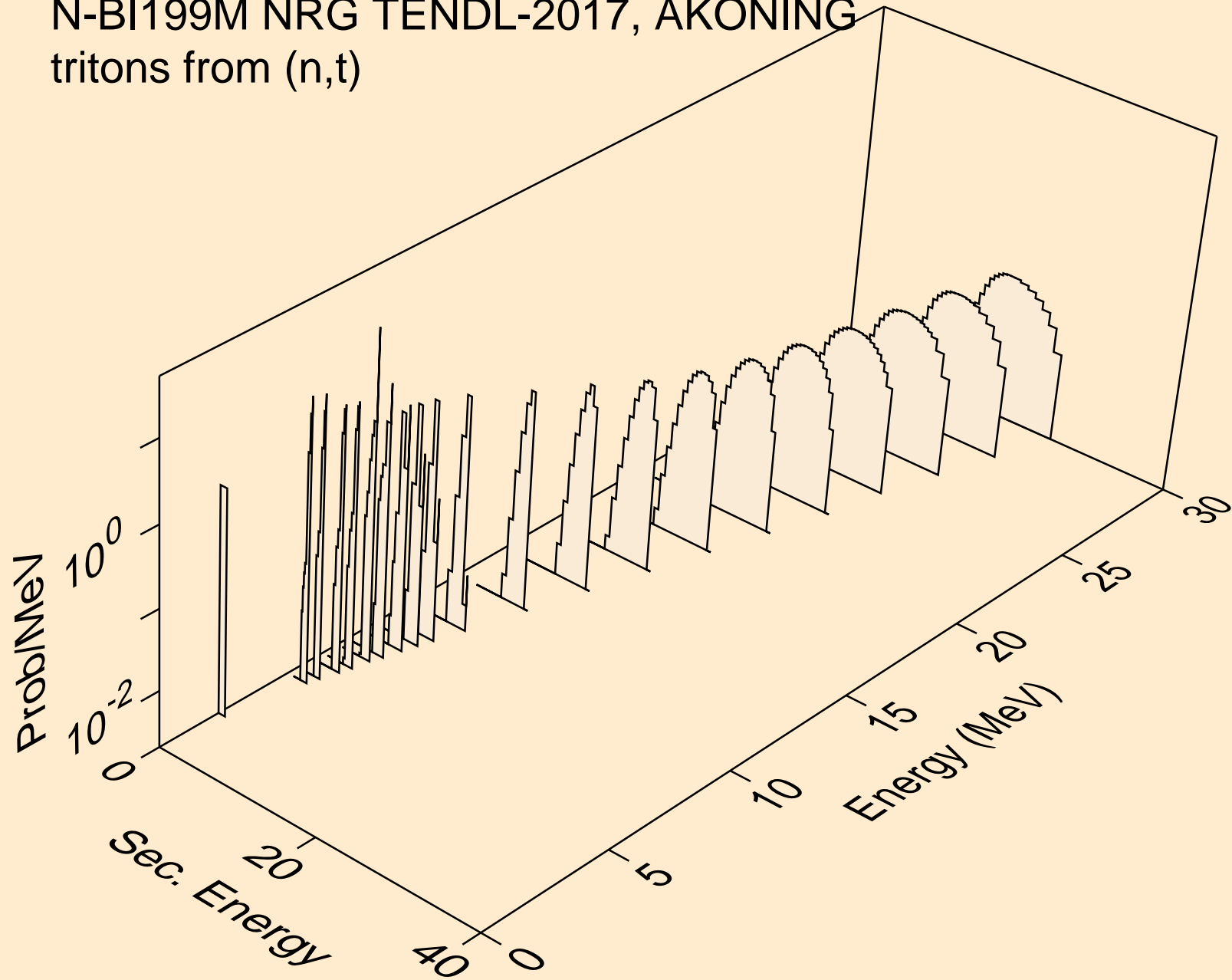
N-BI199M NRG TENDL-2017, AKONING  
tritons from (n,x)



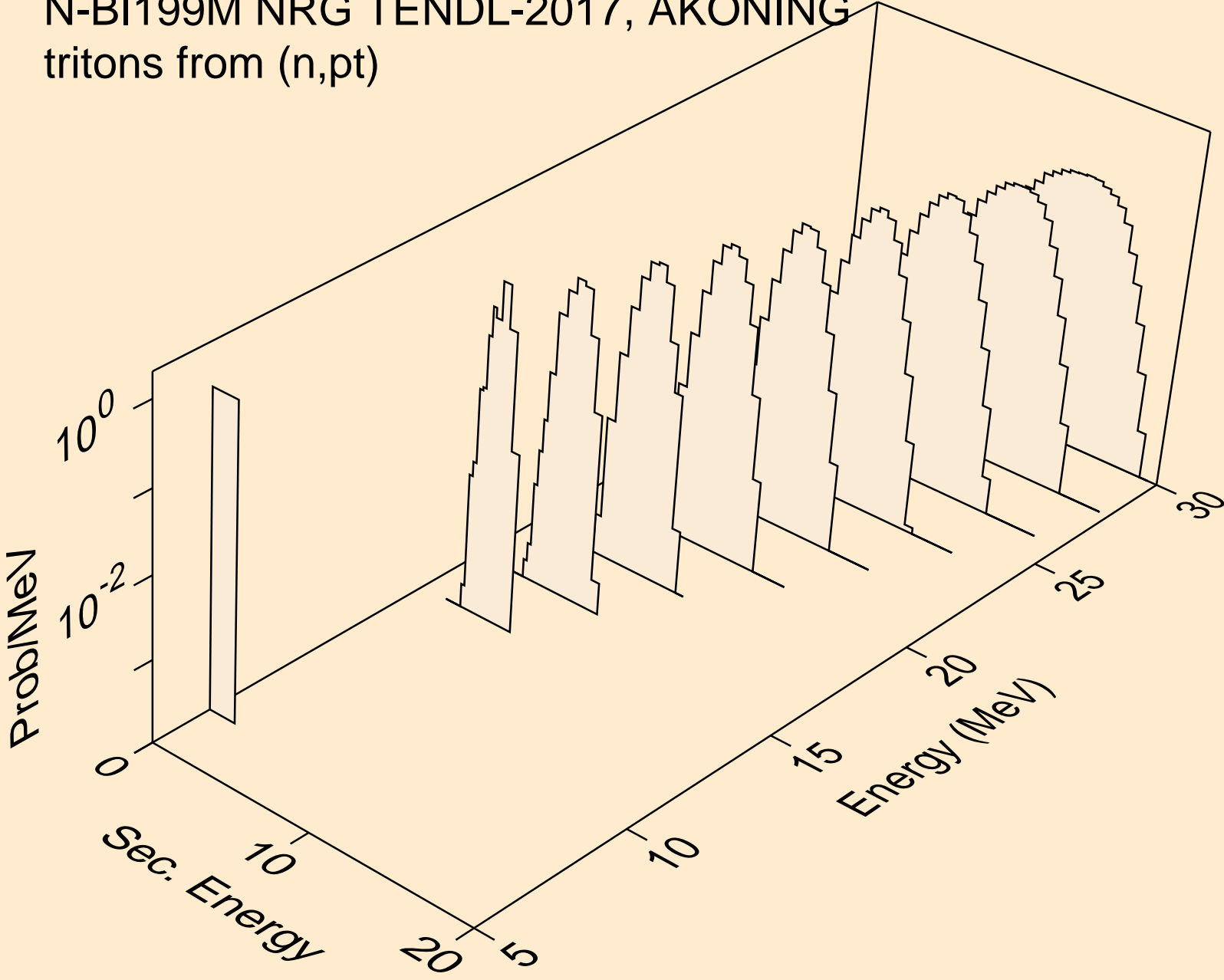
N-BI199M NRG TENDL-2017, AKONING  
tritons from (n,n\*)t



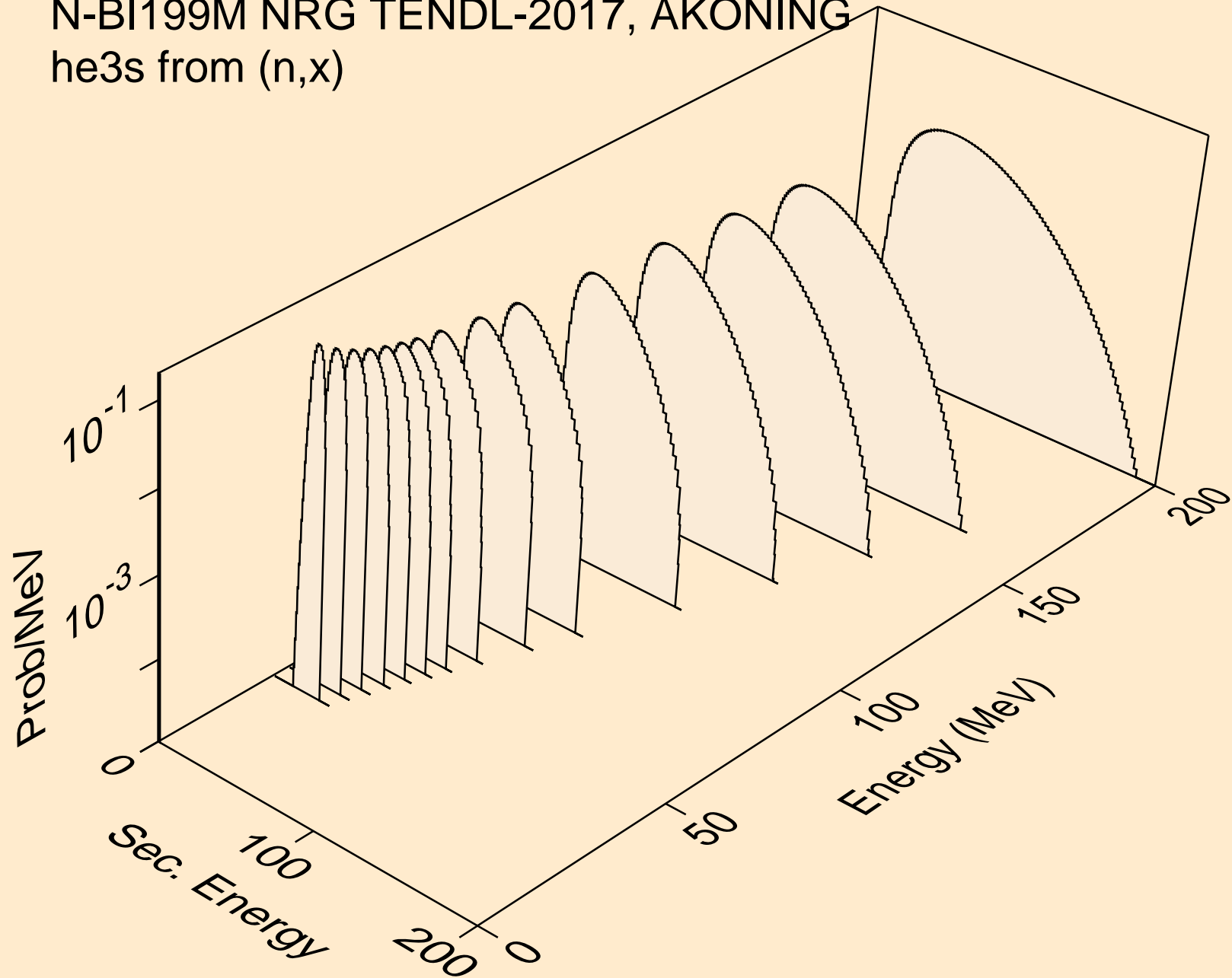
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tritons from (n,t)



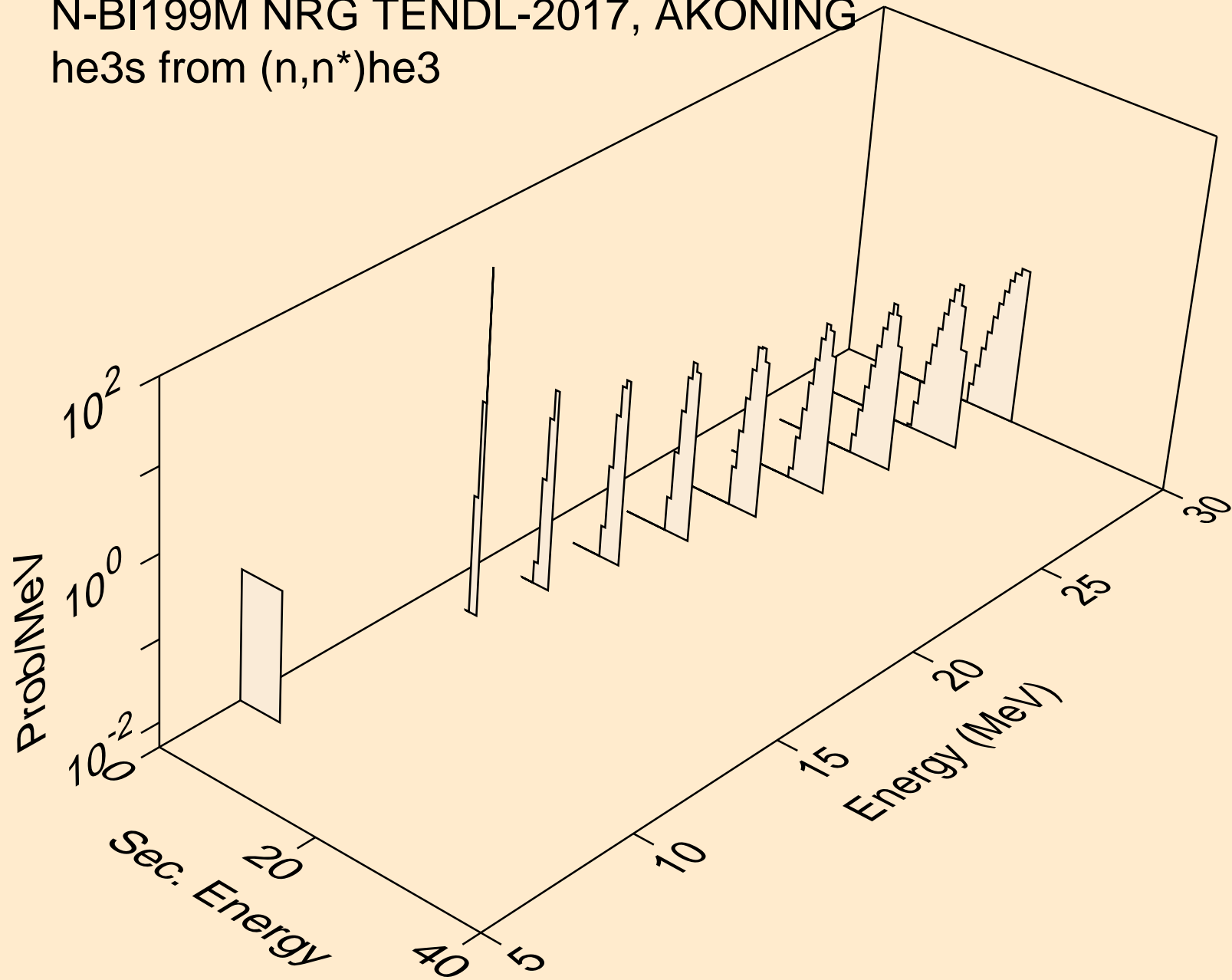
N-BI199M NRG TENDL-2017, AKONING  
tritons from (n,pt)



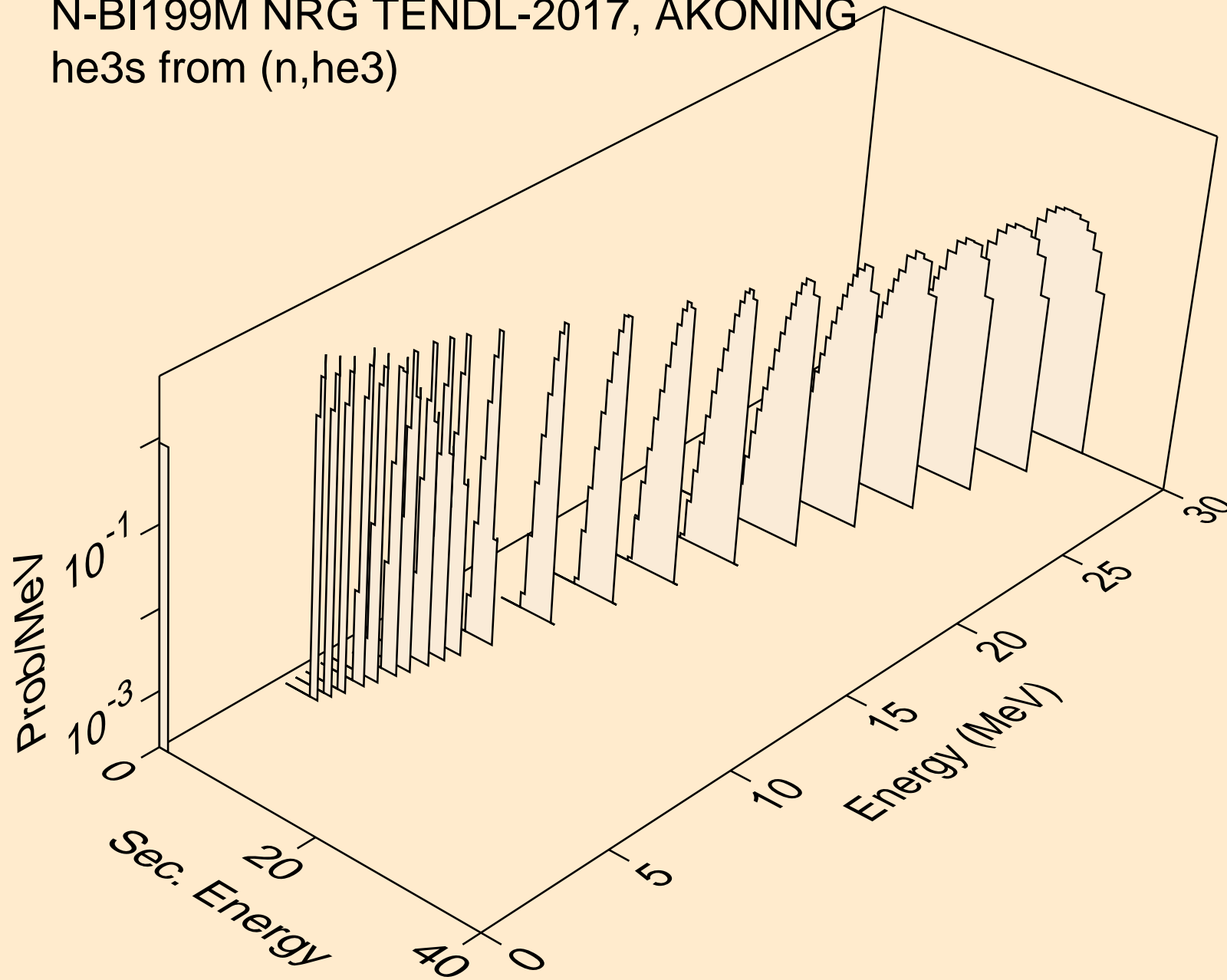
N-BI199M NRG TENDL-2017, AKONING  
he3s from (n,x)



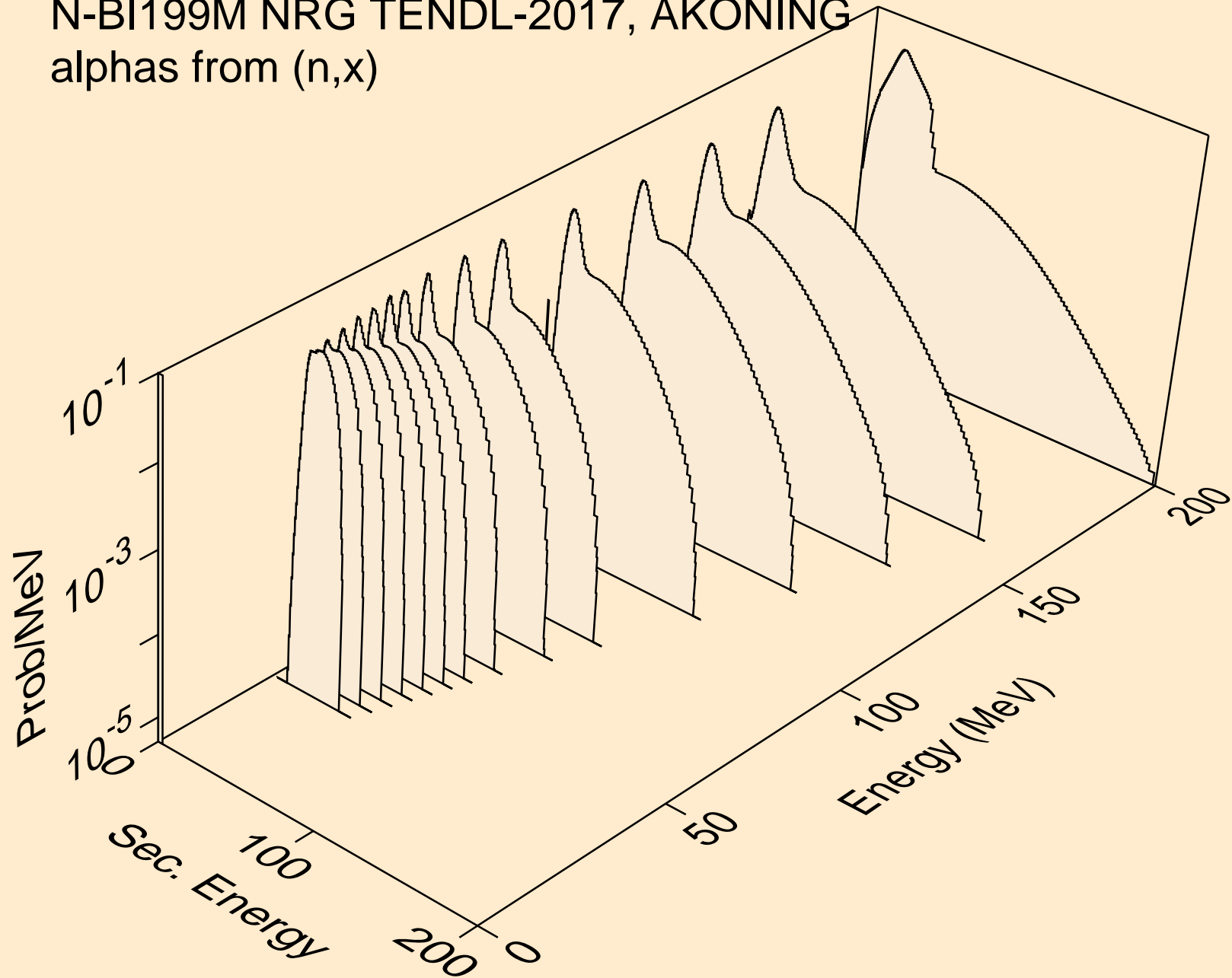
N-BI199M NRG TENDL-2017, AKONING  
he3s from (n,n\*)he3



N-BI199M NRG TENDL-2017, AKONING  
he3s from (n,he3)

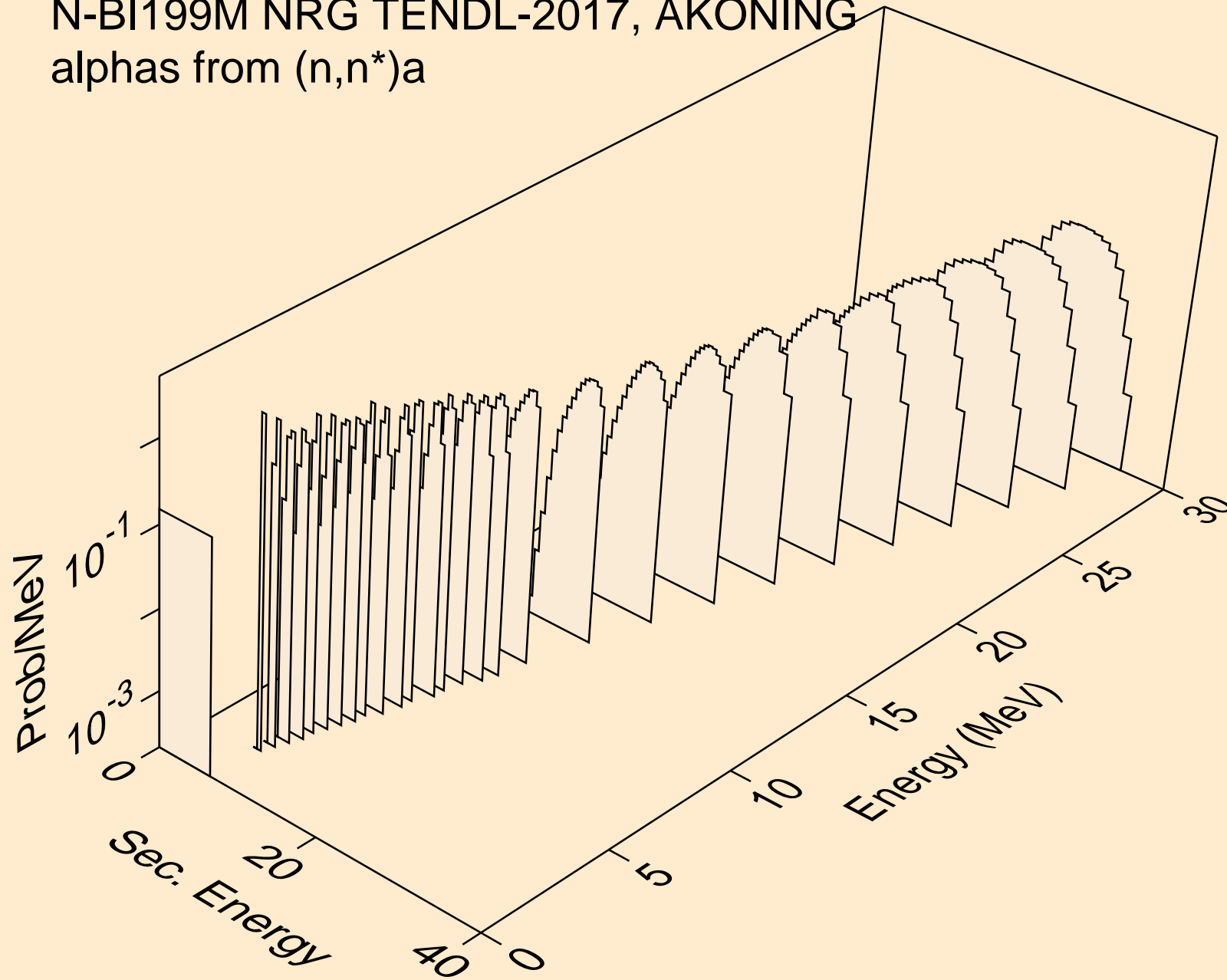


N-BI199M NRG TENDL-2017, AKONING  
alphas from (n,x)

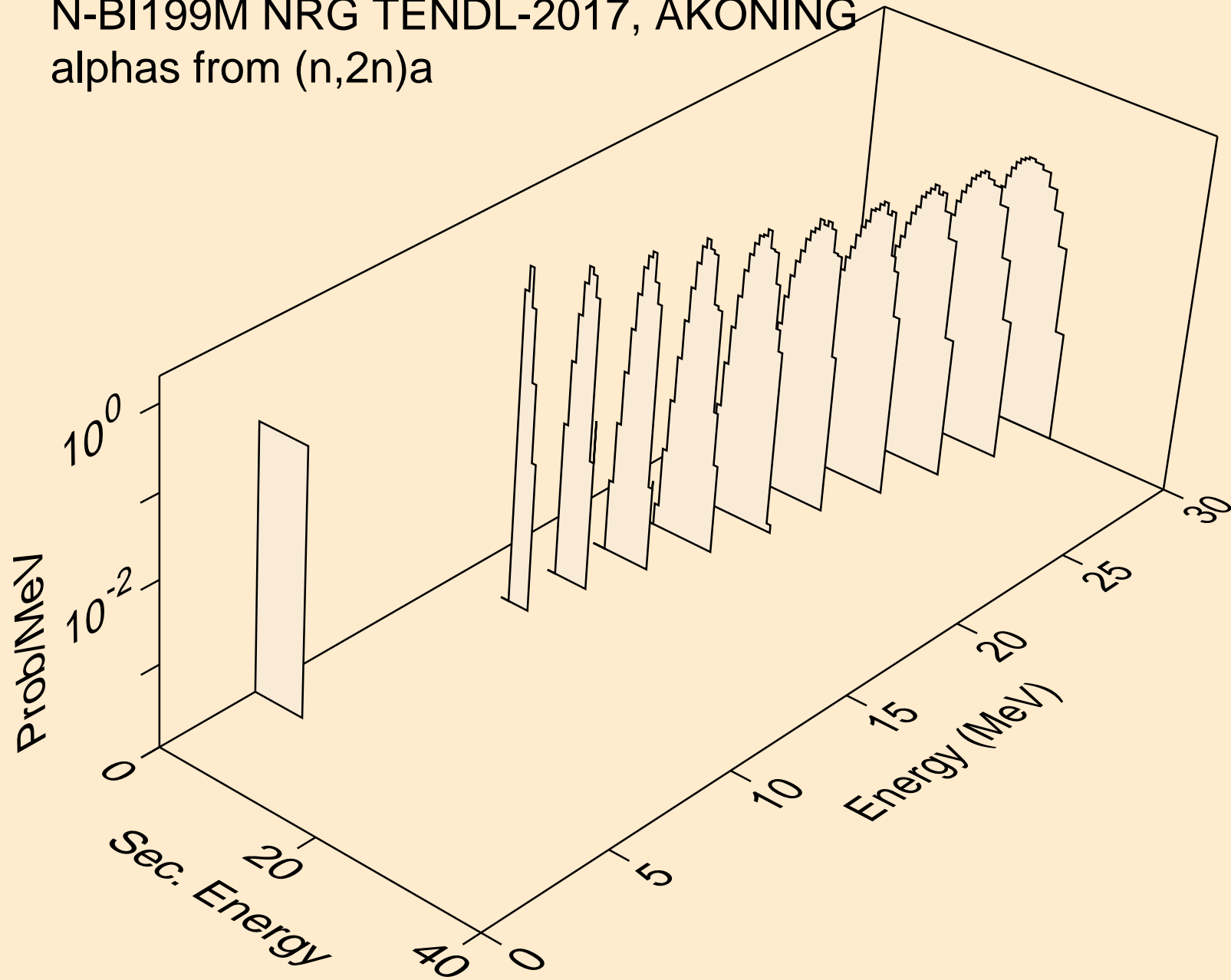




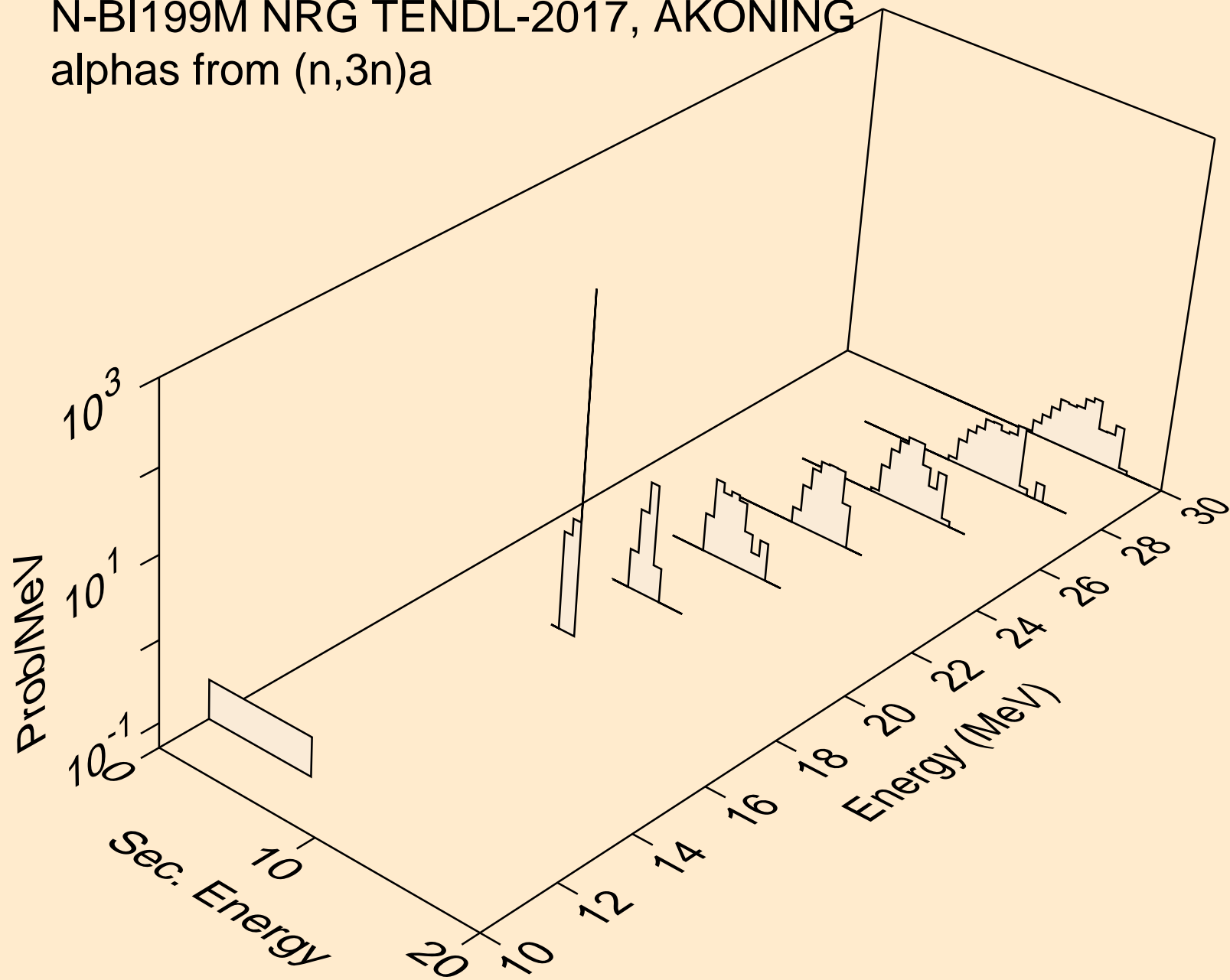
N-BI199M NRG TENDL-2017, AKONING  
alphas from (n,n\*)a



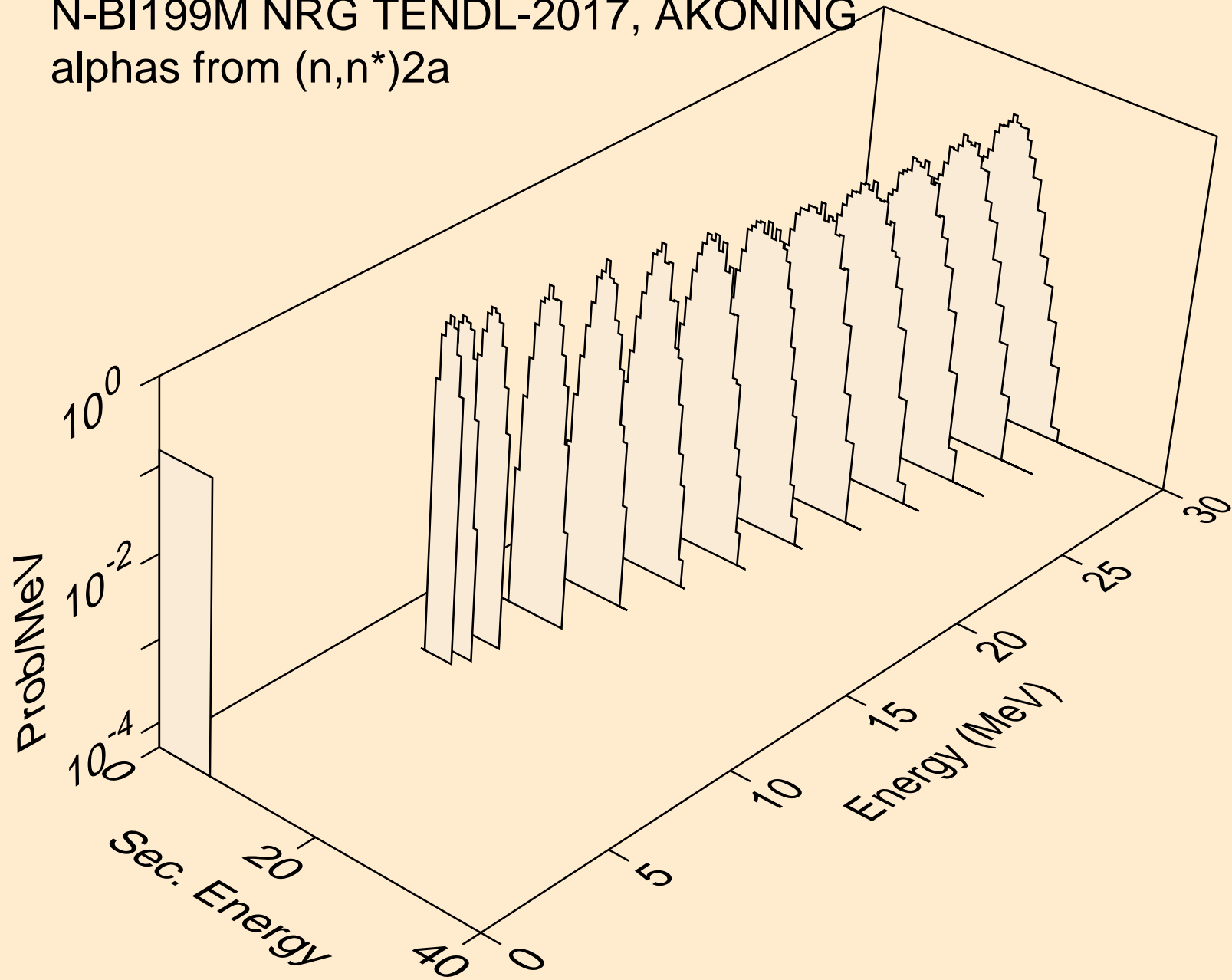
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alphas from (n,2n)a



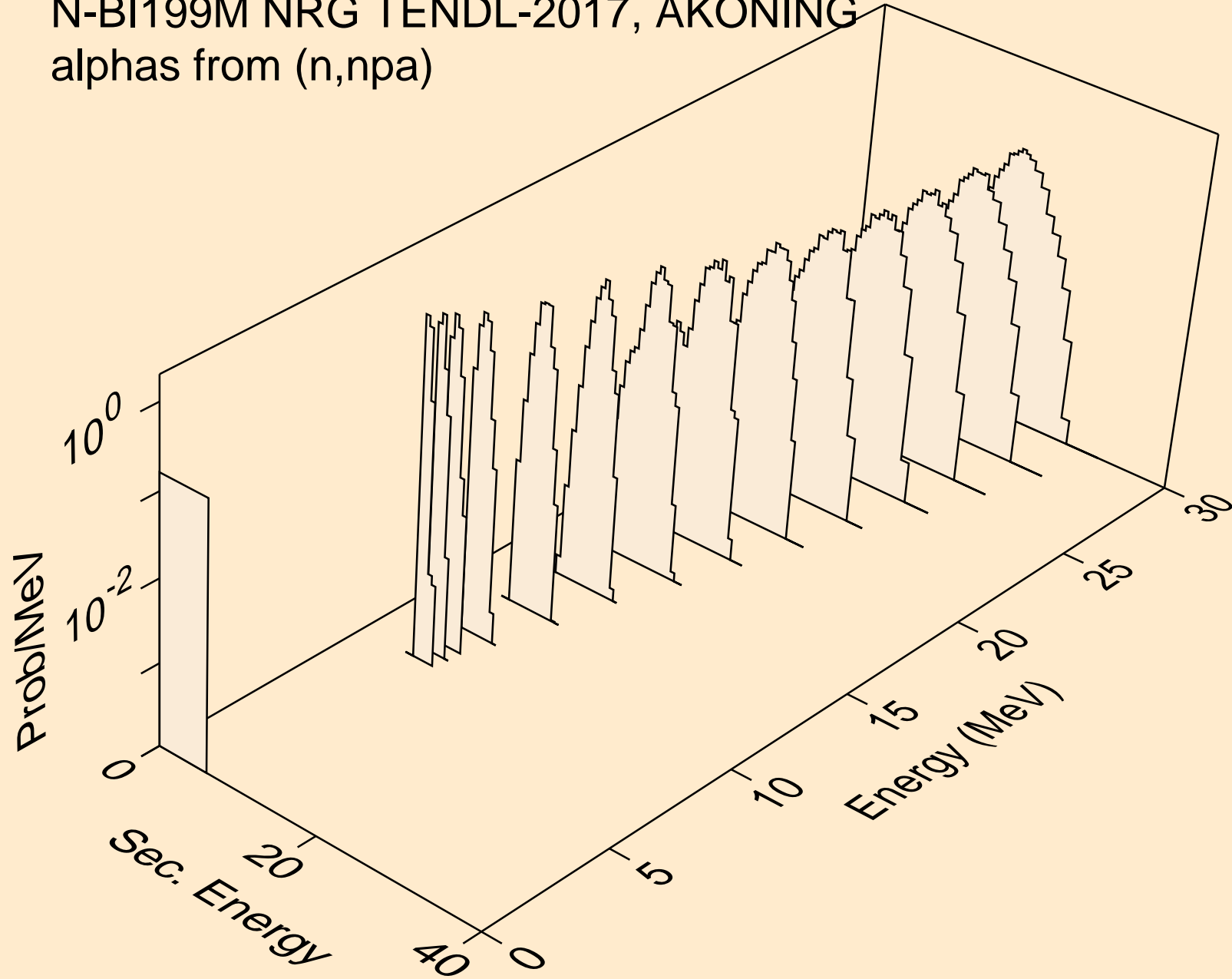
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alphas from (n,3n)a



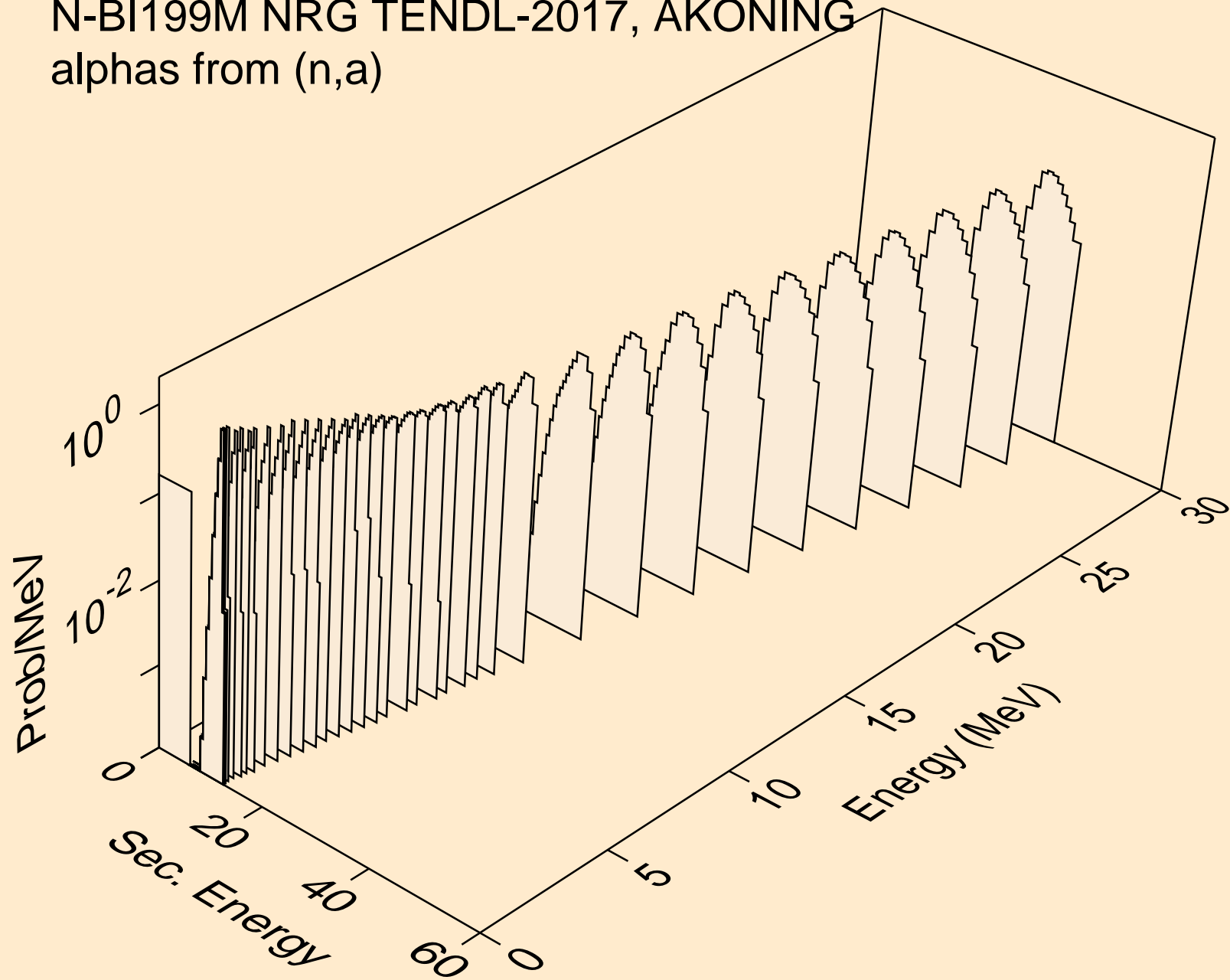
N-BI199M NRG TENDL-2017, AKONING  
alphas from (n,n\*)2a



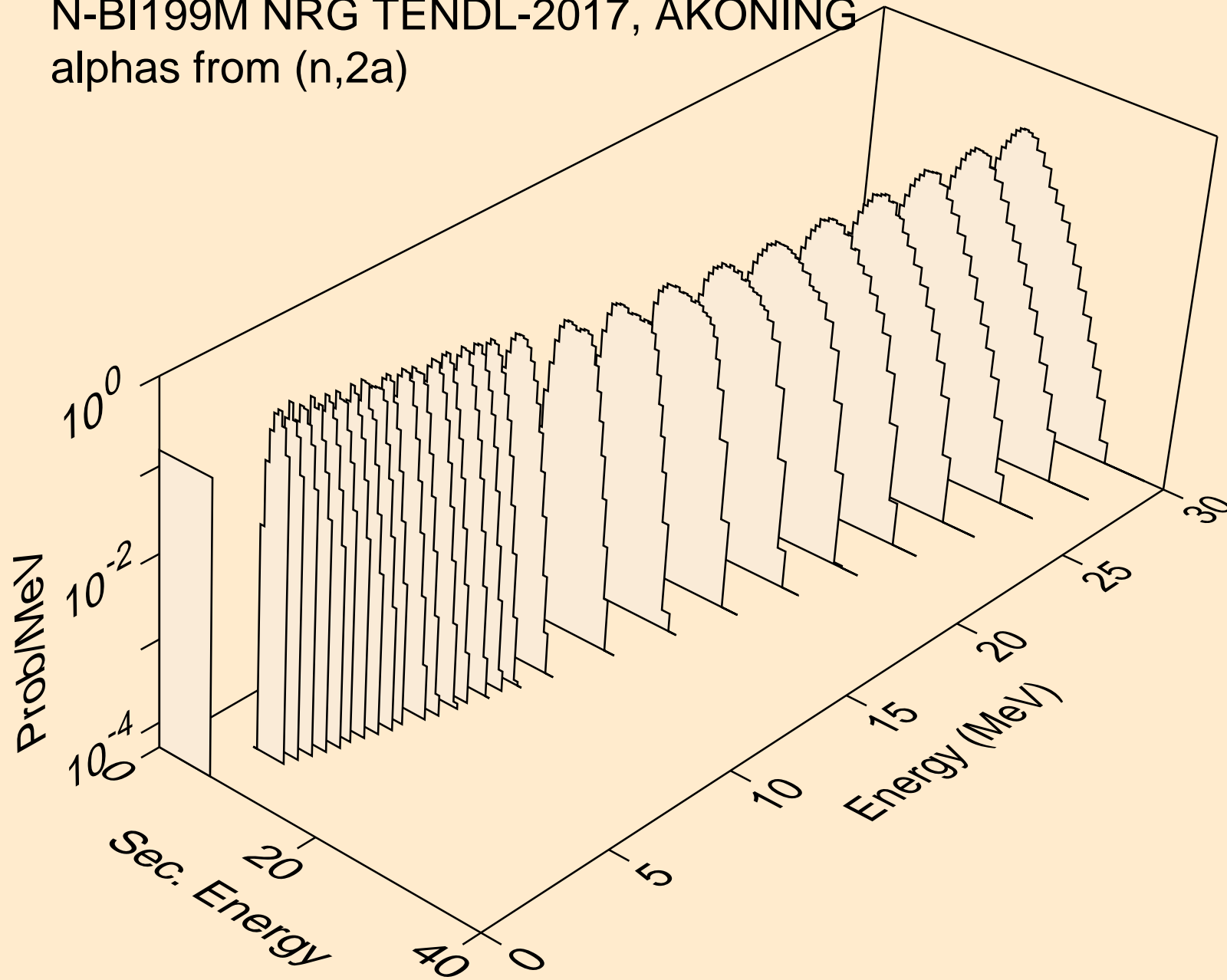
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alphas from (n,npa)



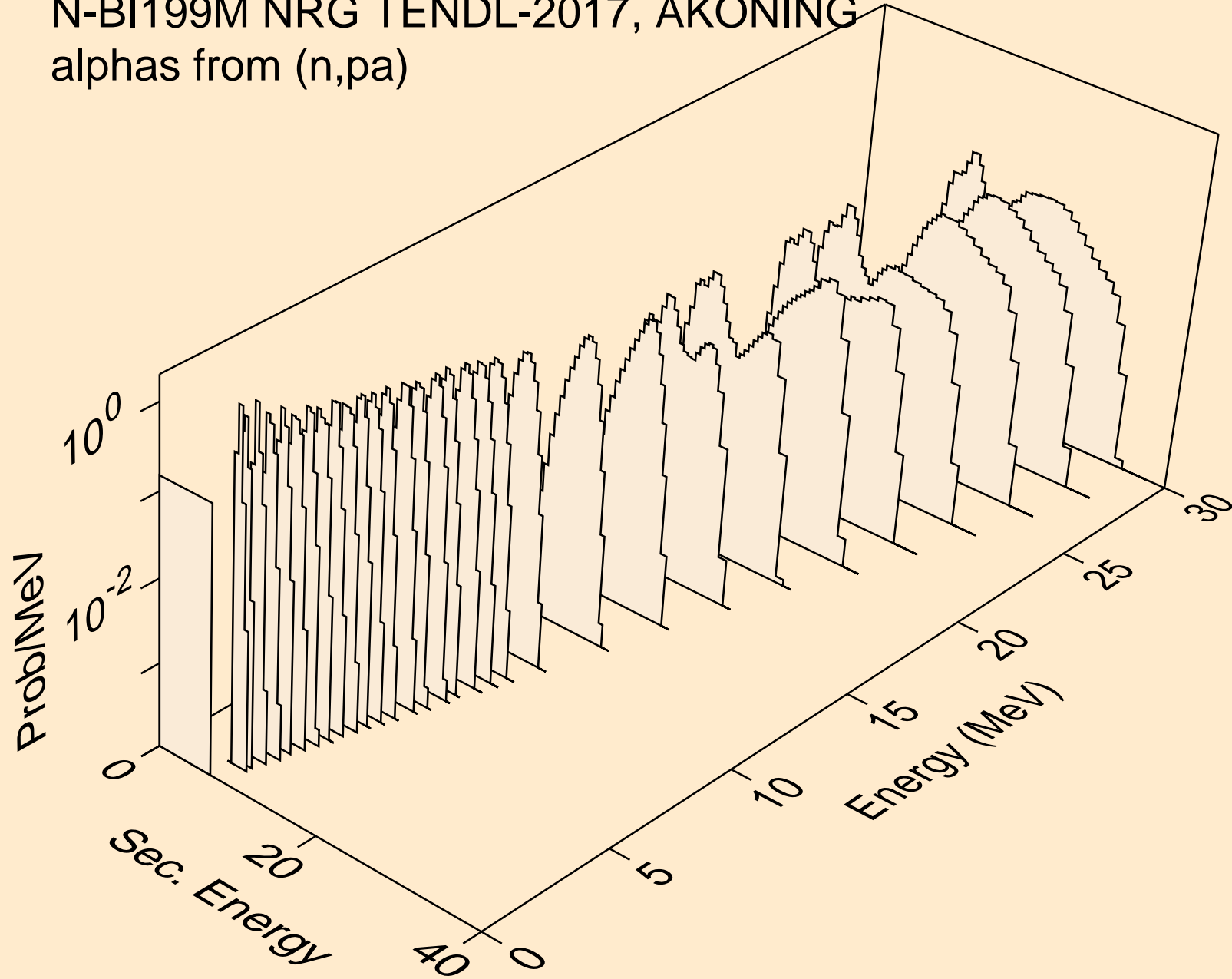
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alphas from (n,a)



N-BI199M NRG TENDL-2017, AKONING  
alphas from (n,2a)



N-BI199M NRG TENDL-2017, AKONING  
alphas from (n,pa)





N-BI199M NRG TENDL-2017, AKONING  
alphas from (n,da)

