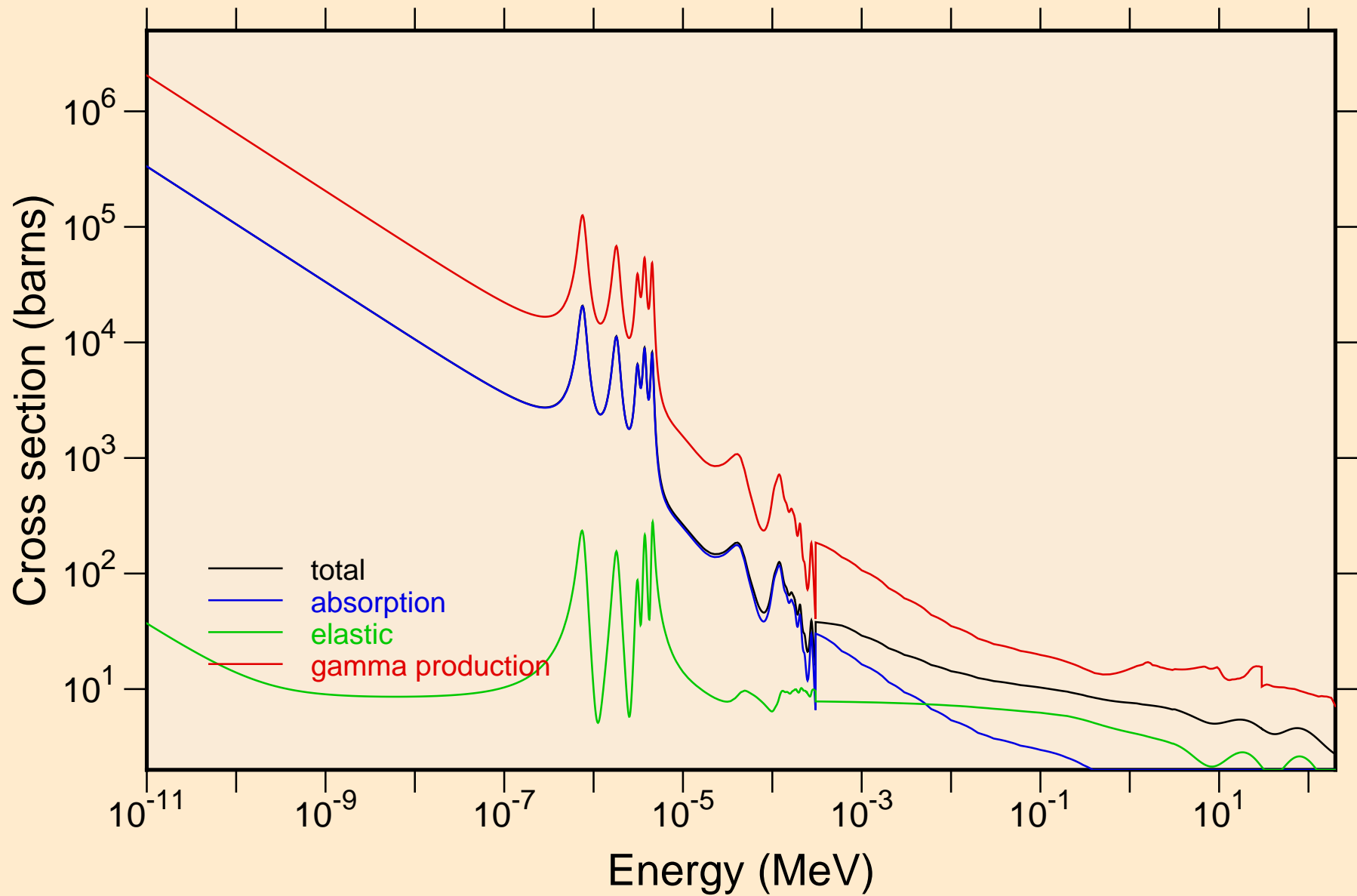


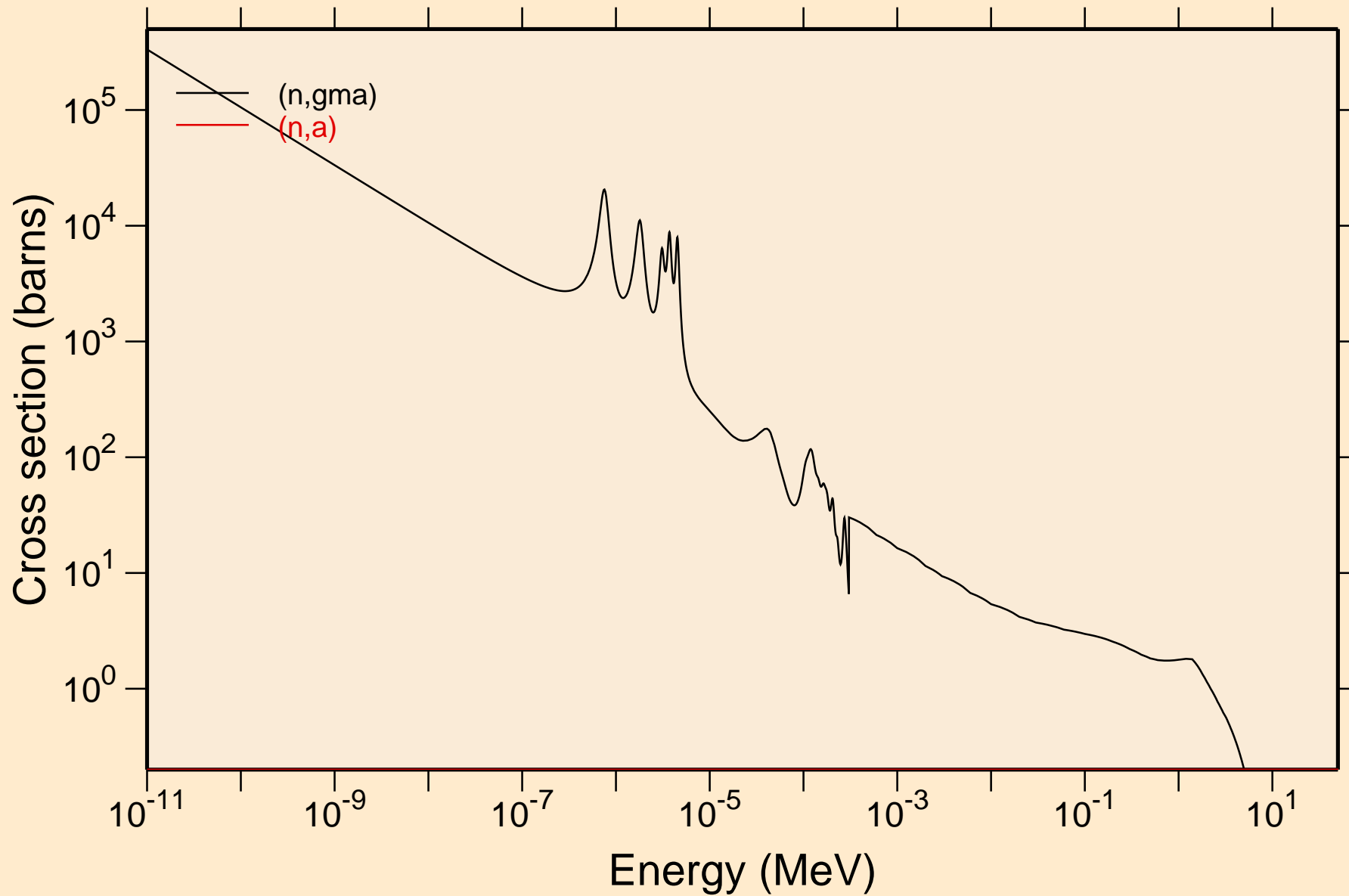
# N-HF178M NRG TENDL-2017, AKONING

## Principal cross sections



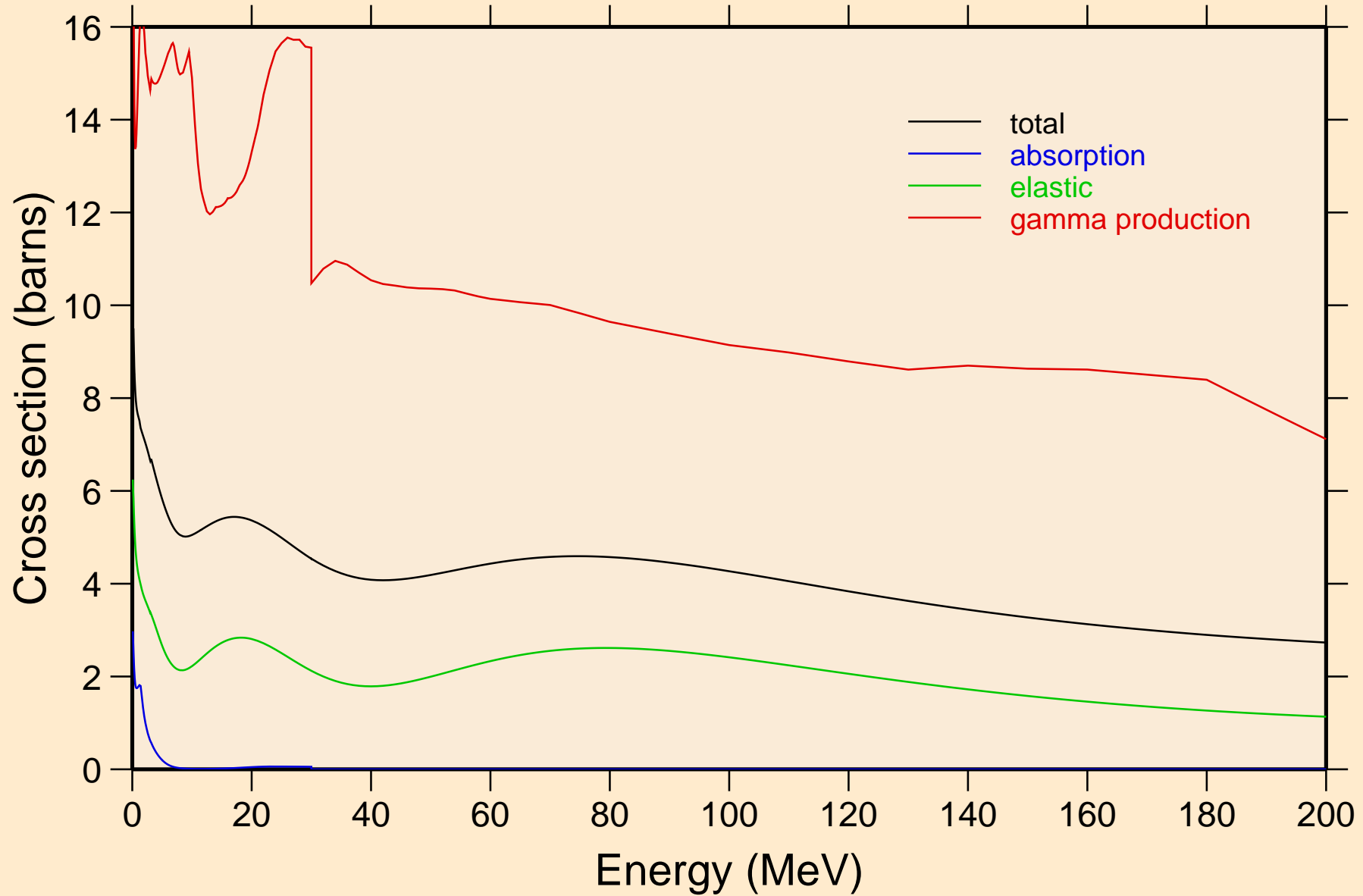
# N-HF178M NRG TENDL-2017, AKONING

## Non-threshold reactions



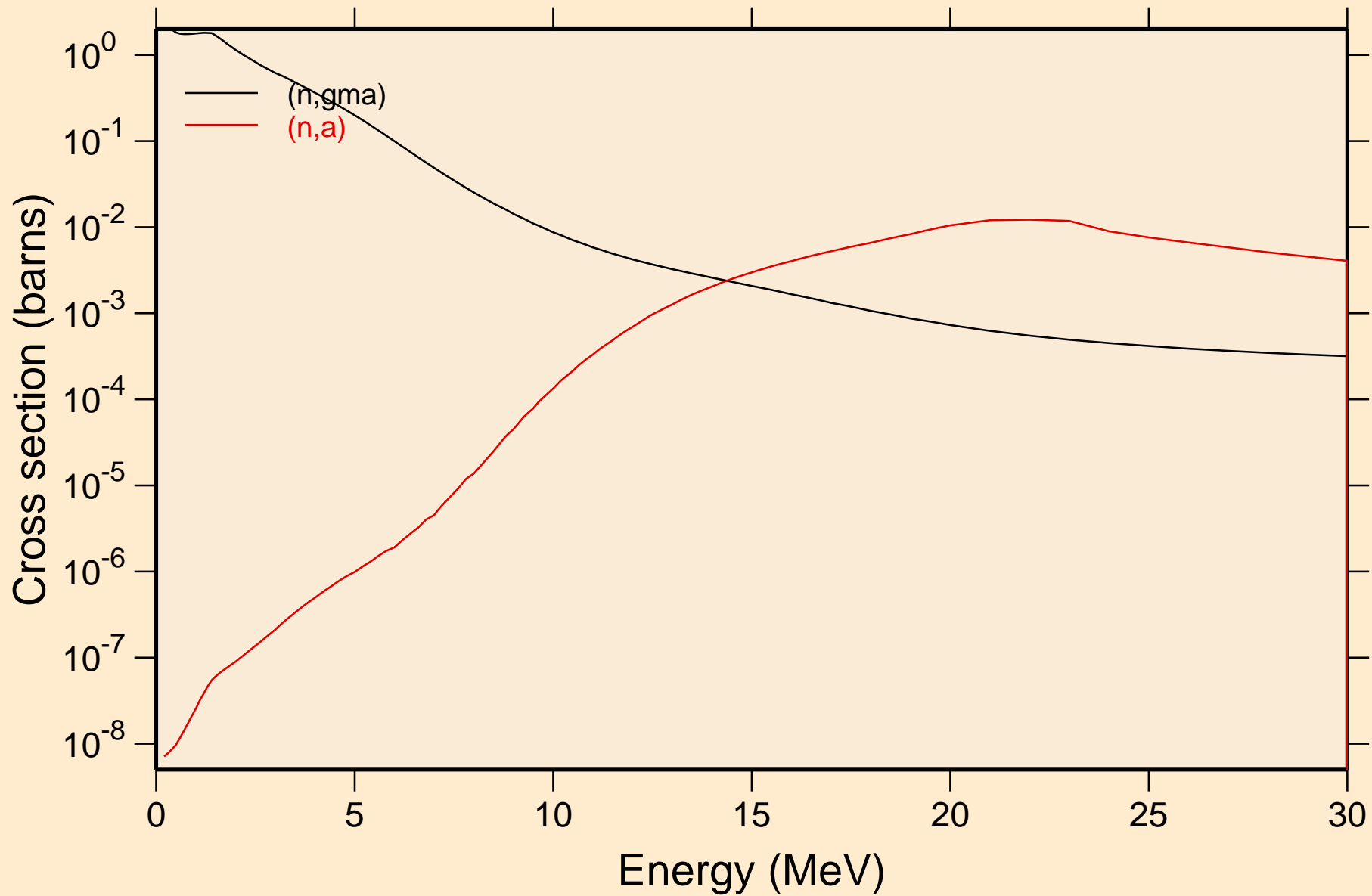
# N-HF178M NRG TENDL-2017, AKONING

## Principal cross sections



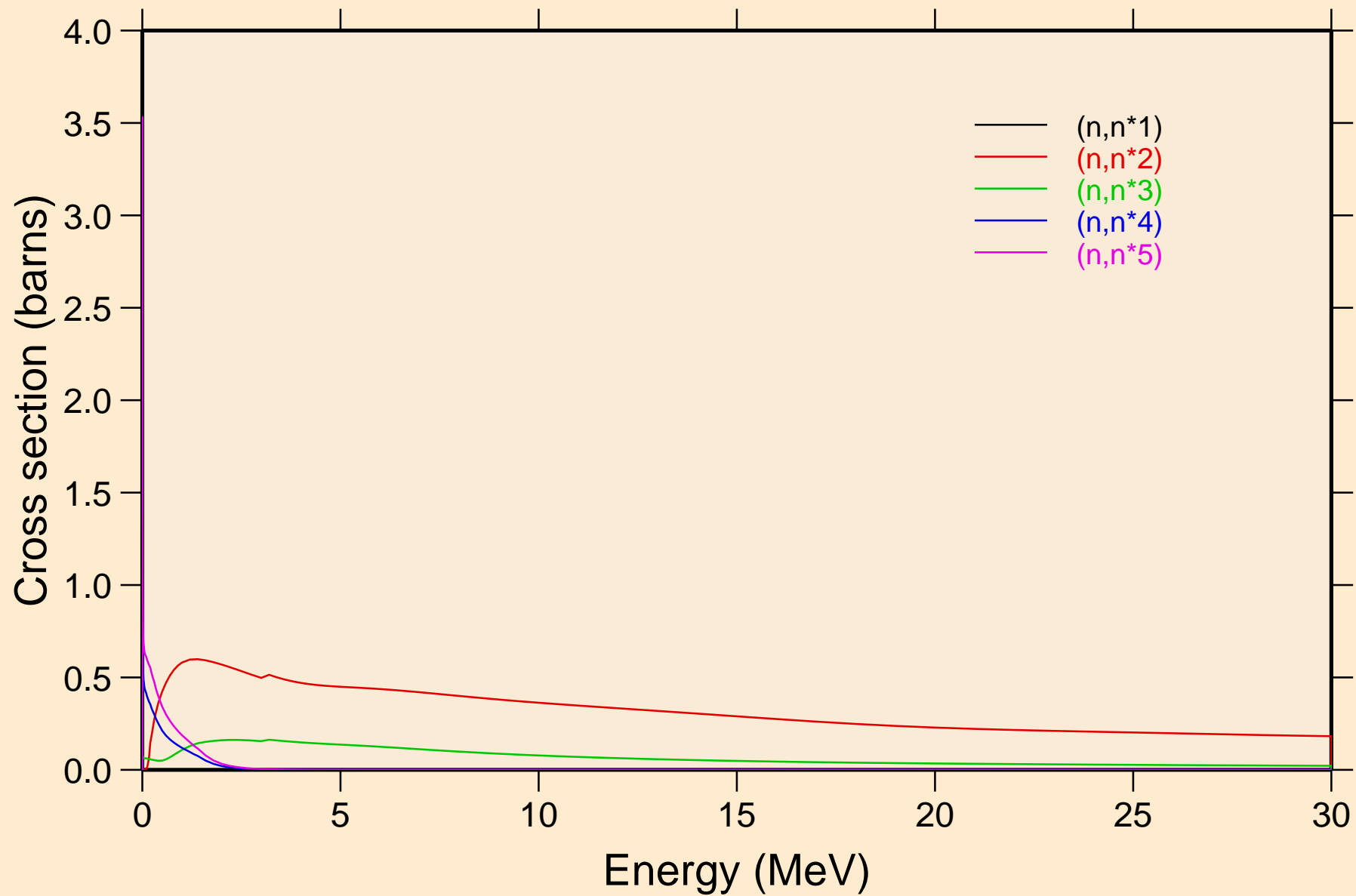
# N-HF178M NRG TENDL-2017, AKONING

## Non-threshold reactions



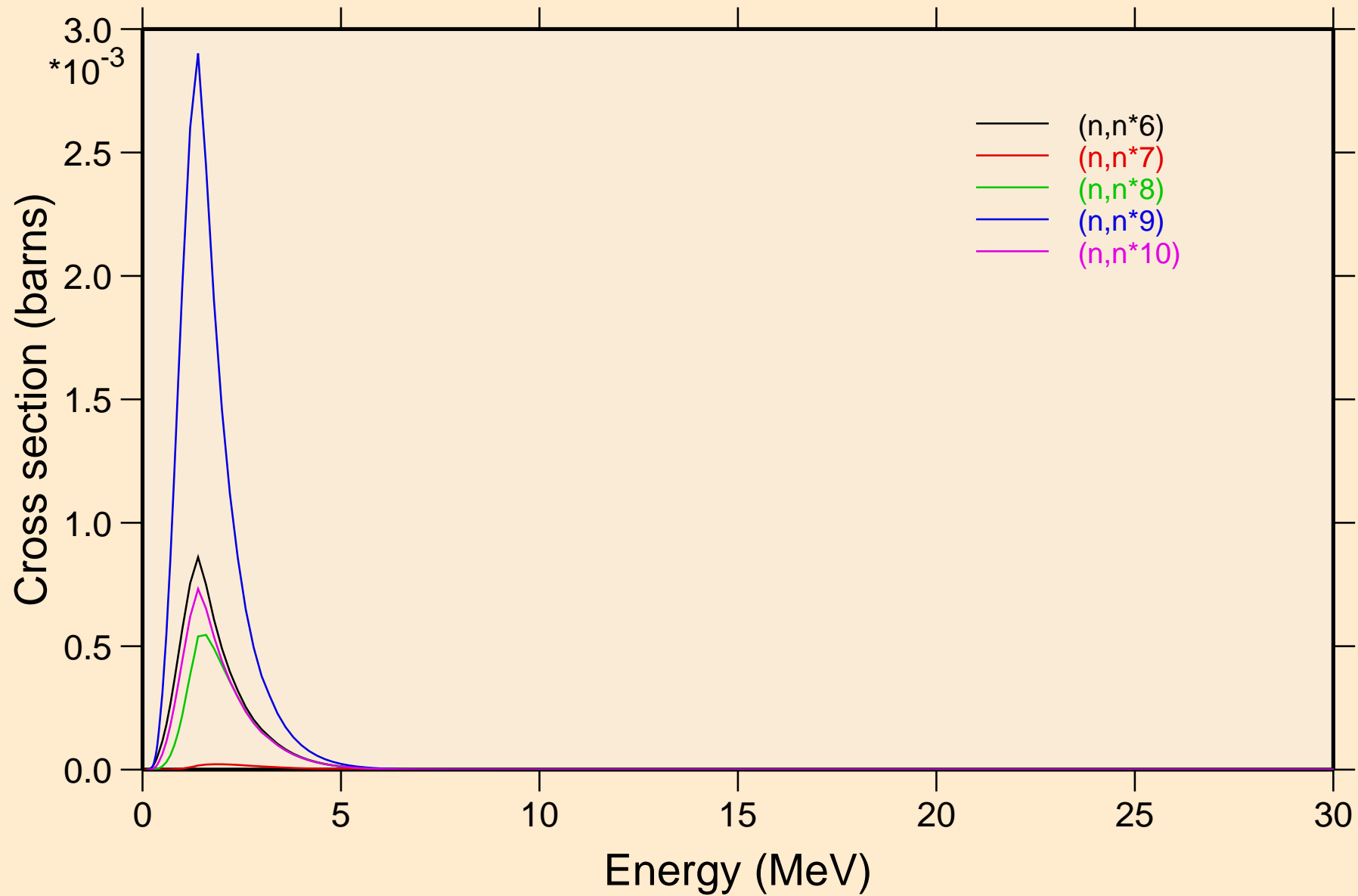
# N-HF178M NRG TENDL-2017, AKONING

## Inelastic levels



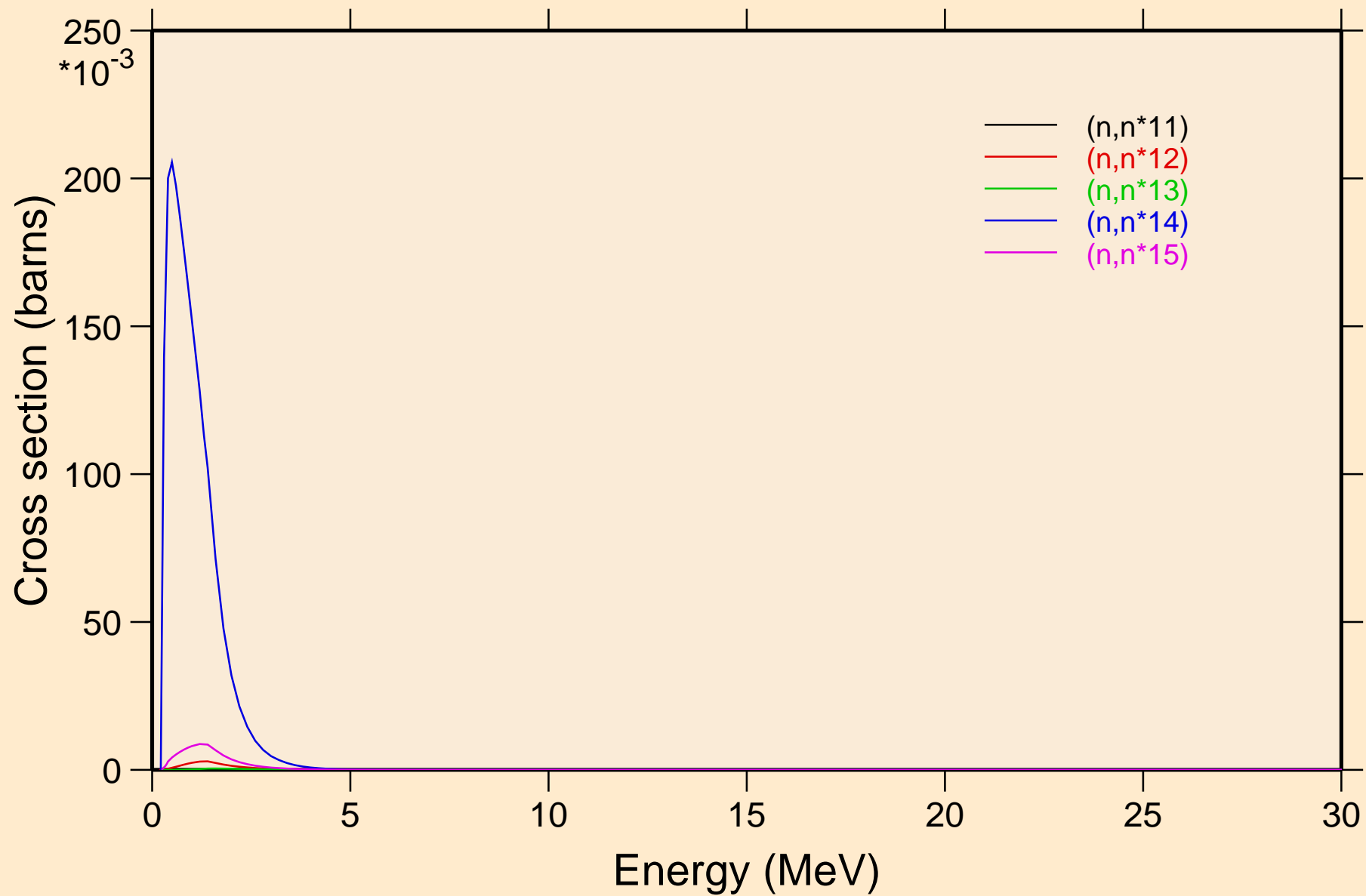
# N-HF178M NRG TENDL-2017, AKONING

## Inelastic levels



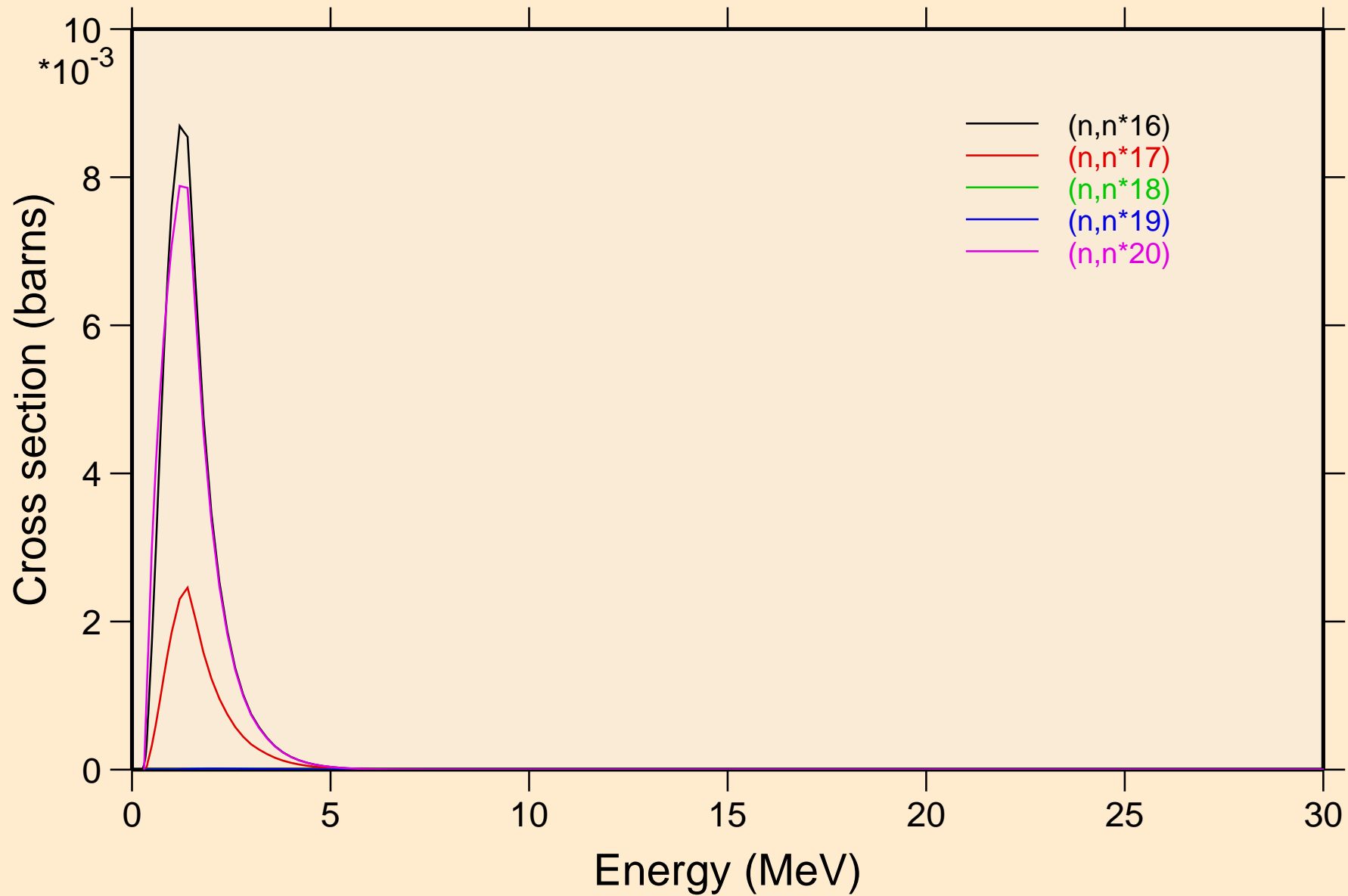
# N-HF178M NRG TENDL-2017, AKONING

## Inelastic levels



# N-HF178M NRG TENDL-2017, AKONING

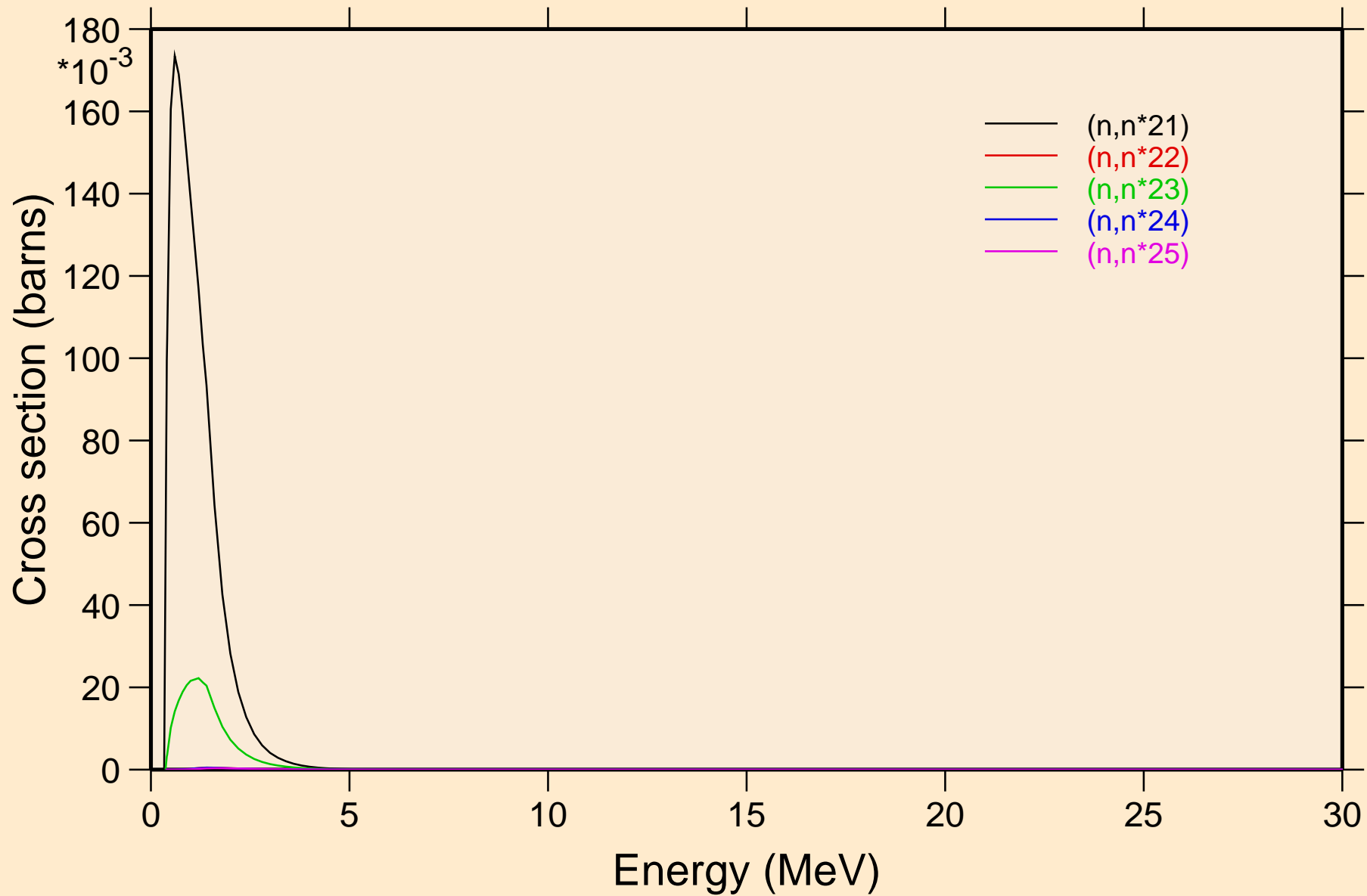
## Inelastic levels





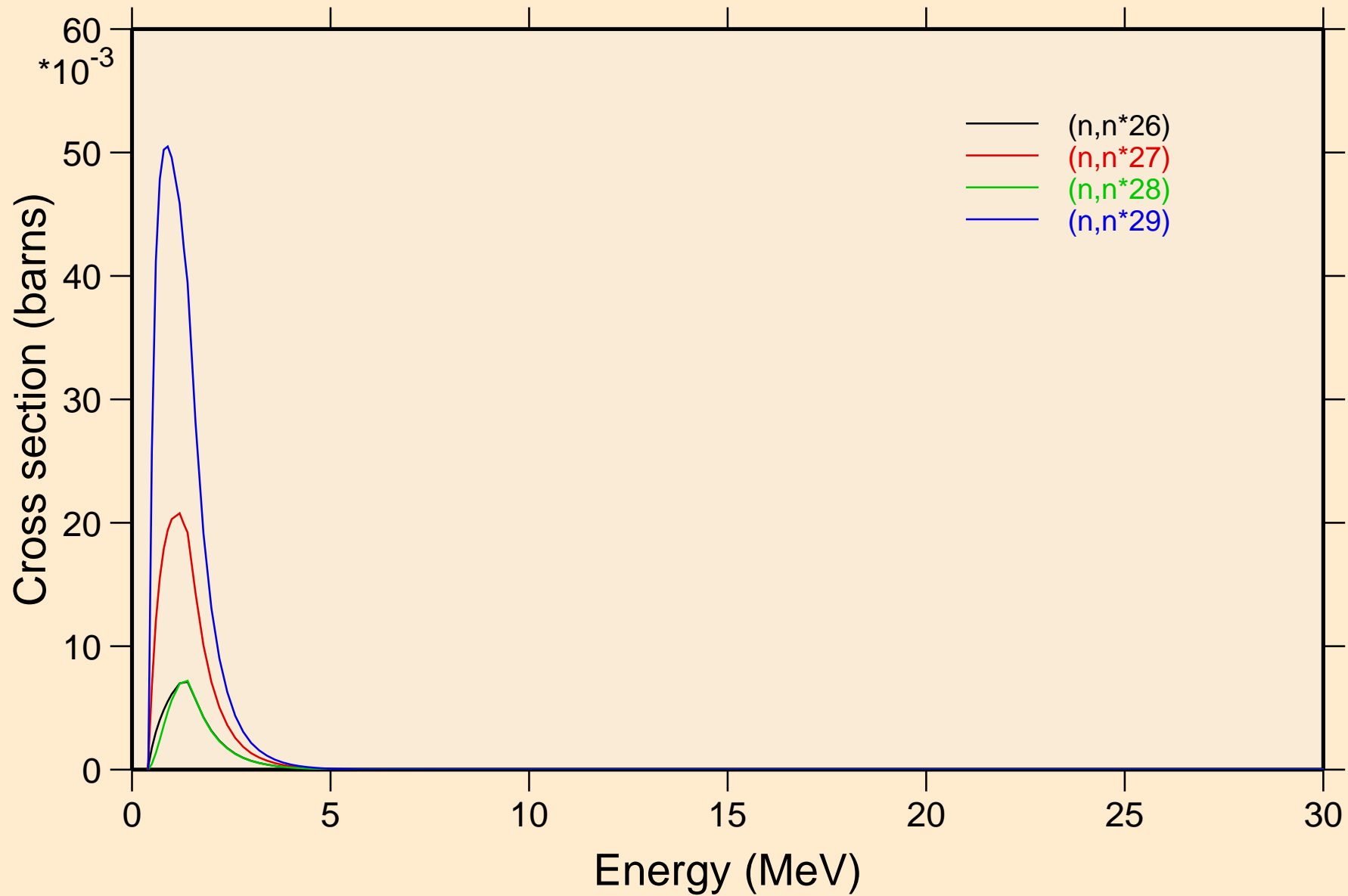
# N-HF178M NRG TENDL-2017, AKONING

## Inelastic levels



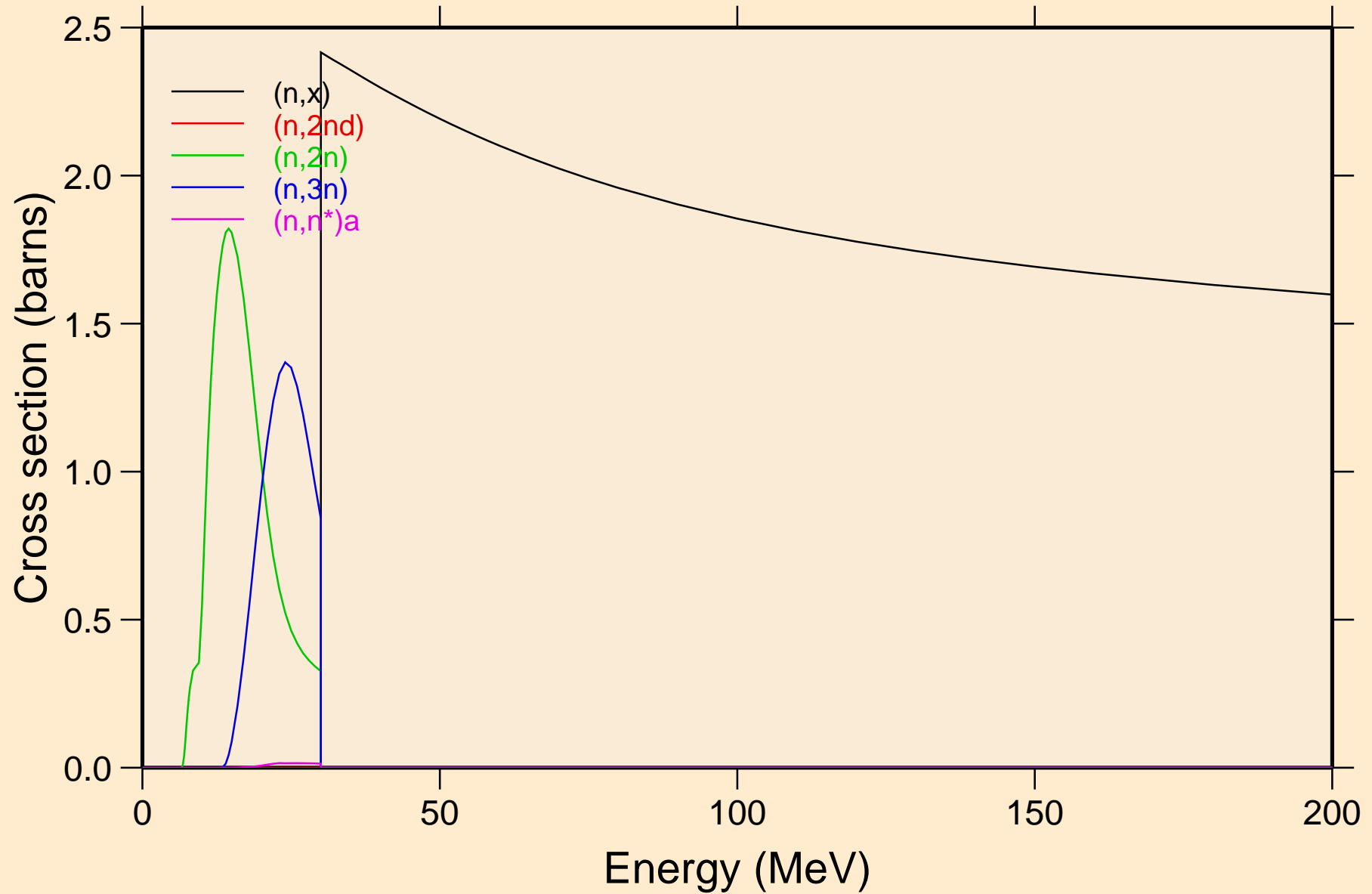
# N-HF178M NRG TENDL-2017, AKONING

## Inelastic levels



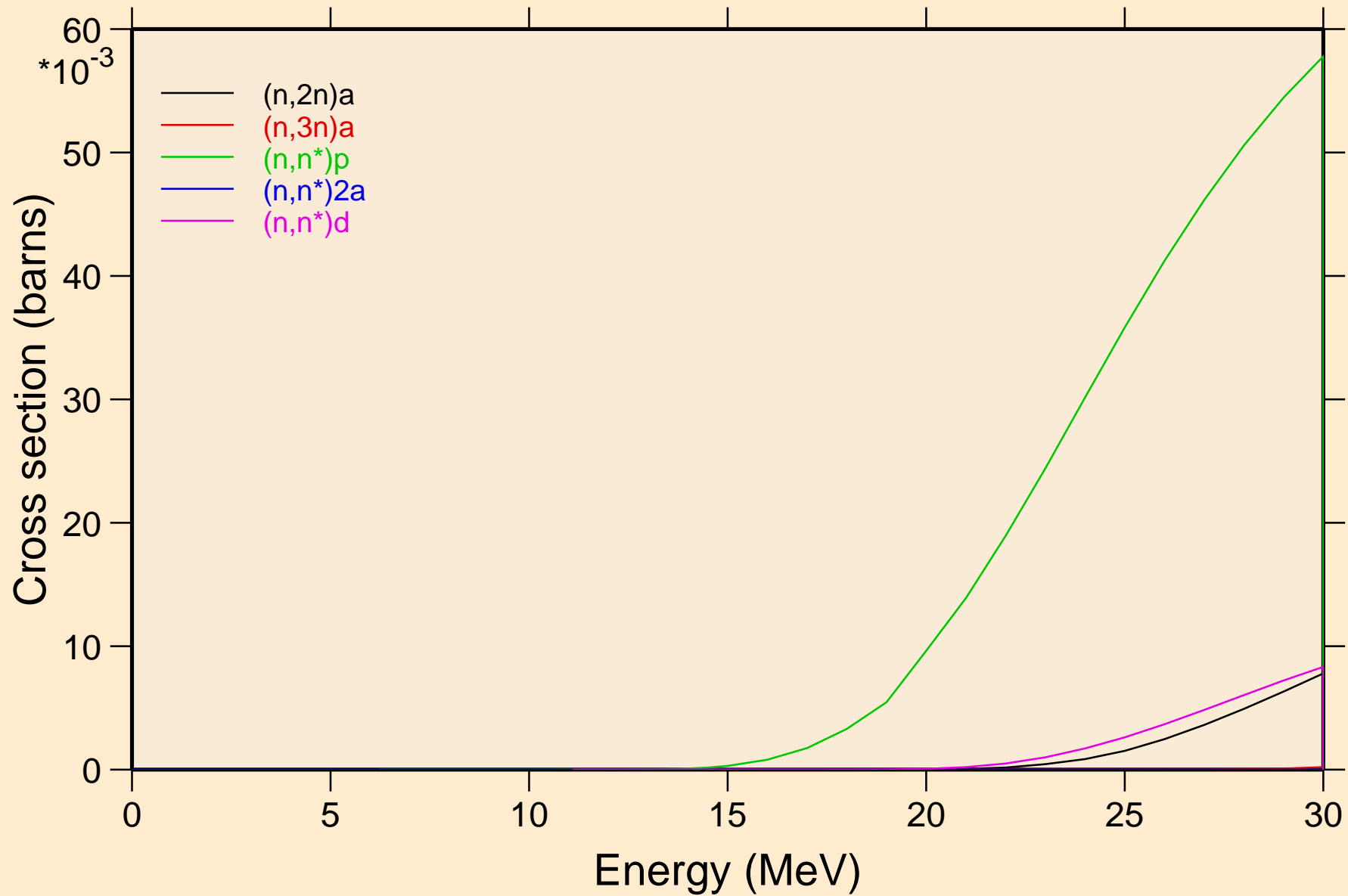
# N-HF178M NRG TENDL-2017, AKONING

## Threshold reactions



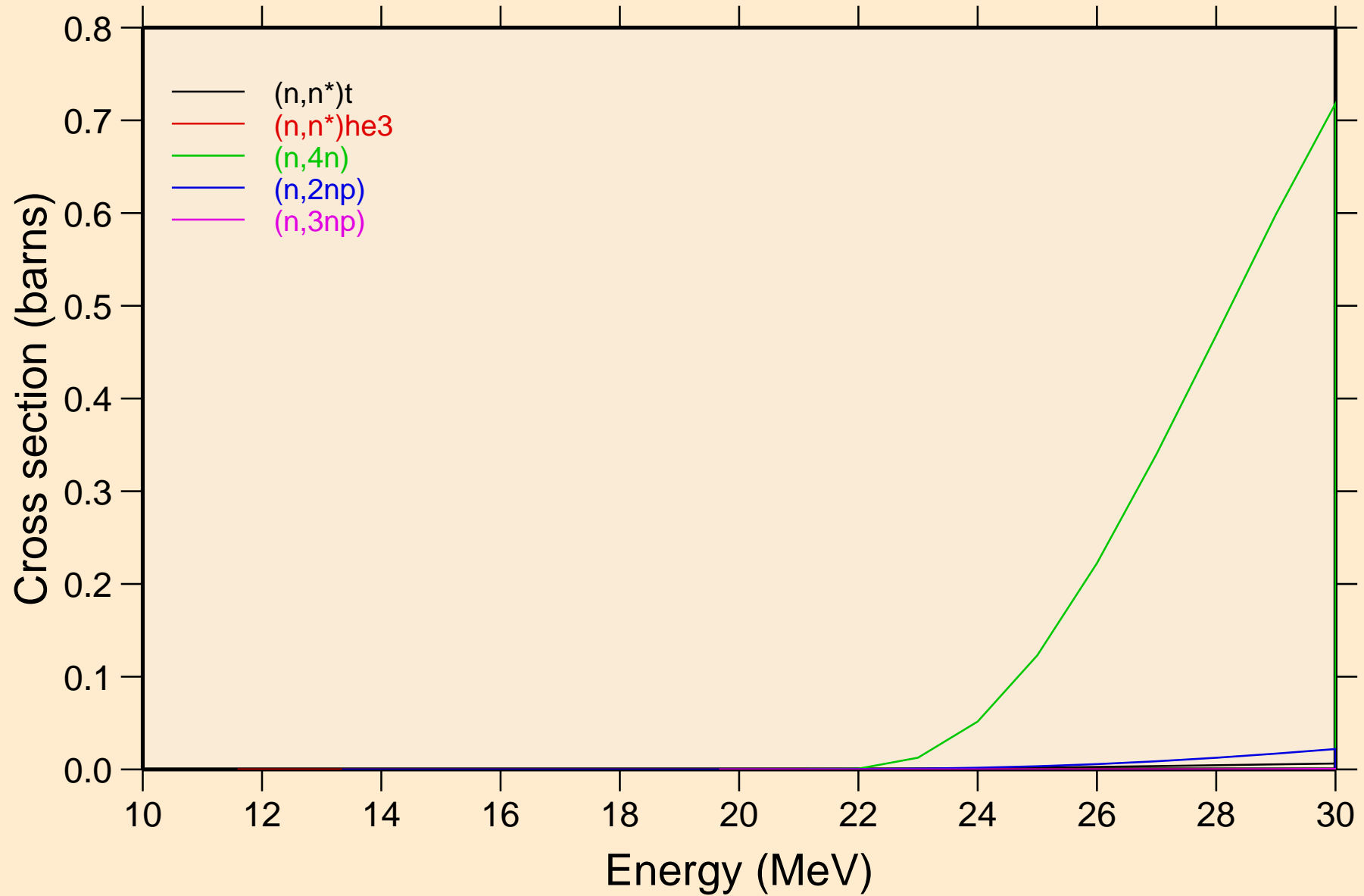
# N-HF178M NRG TENDL-2017, AKONING

## Threshold reactions



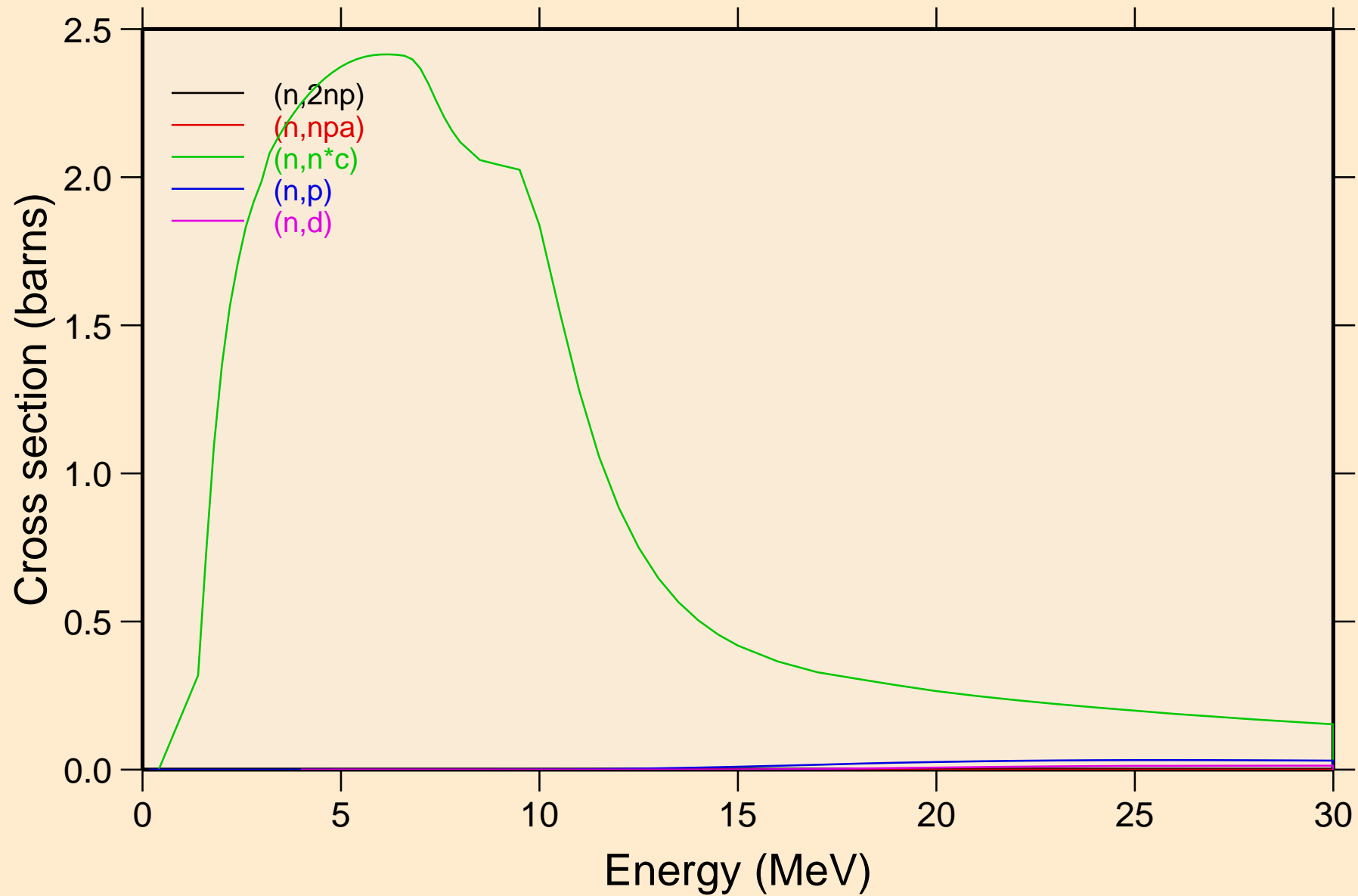
# N-HF178M NRG TENDL-2017, AKONING

## Threshold reactions



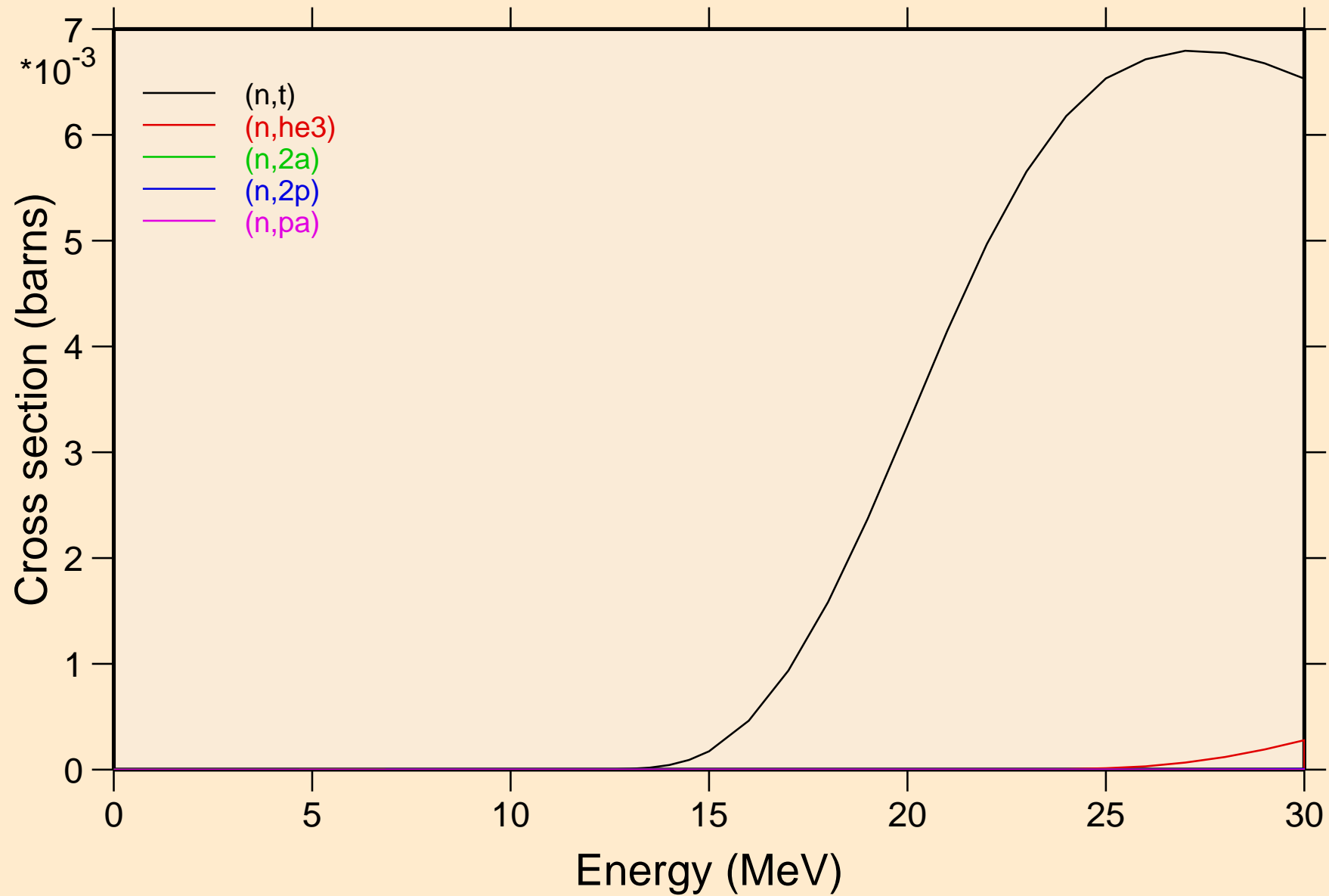
# N-HF178M NRG TENDL-2017, AKONING

## Threshold reactions



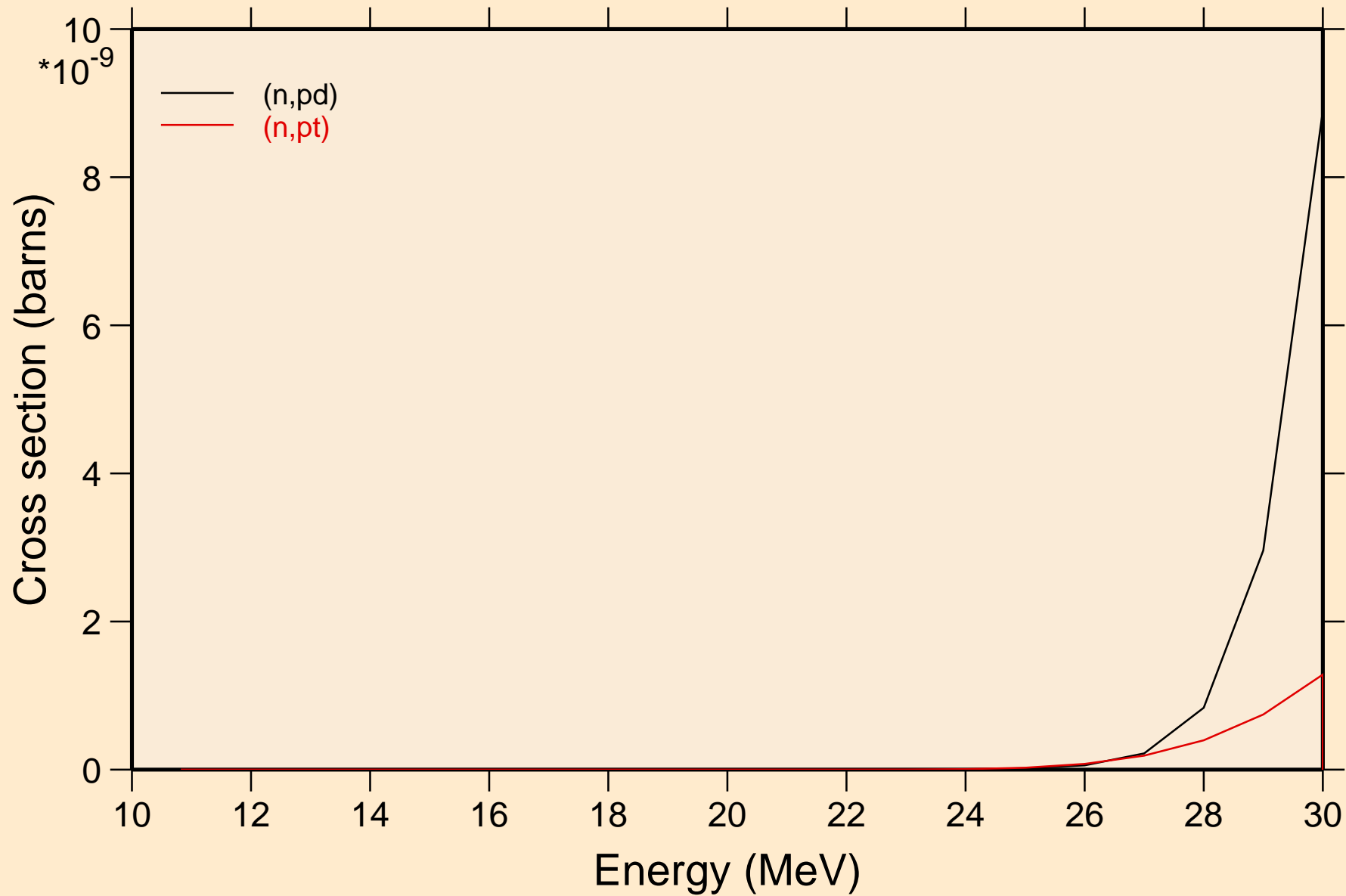
# N-HF178M NRG TENDL-2017, AKONING

## Threshold reactions



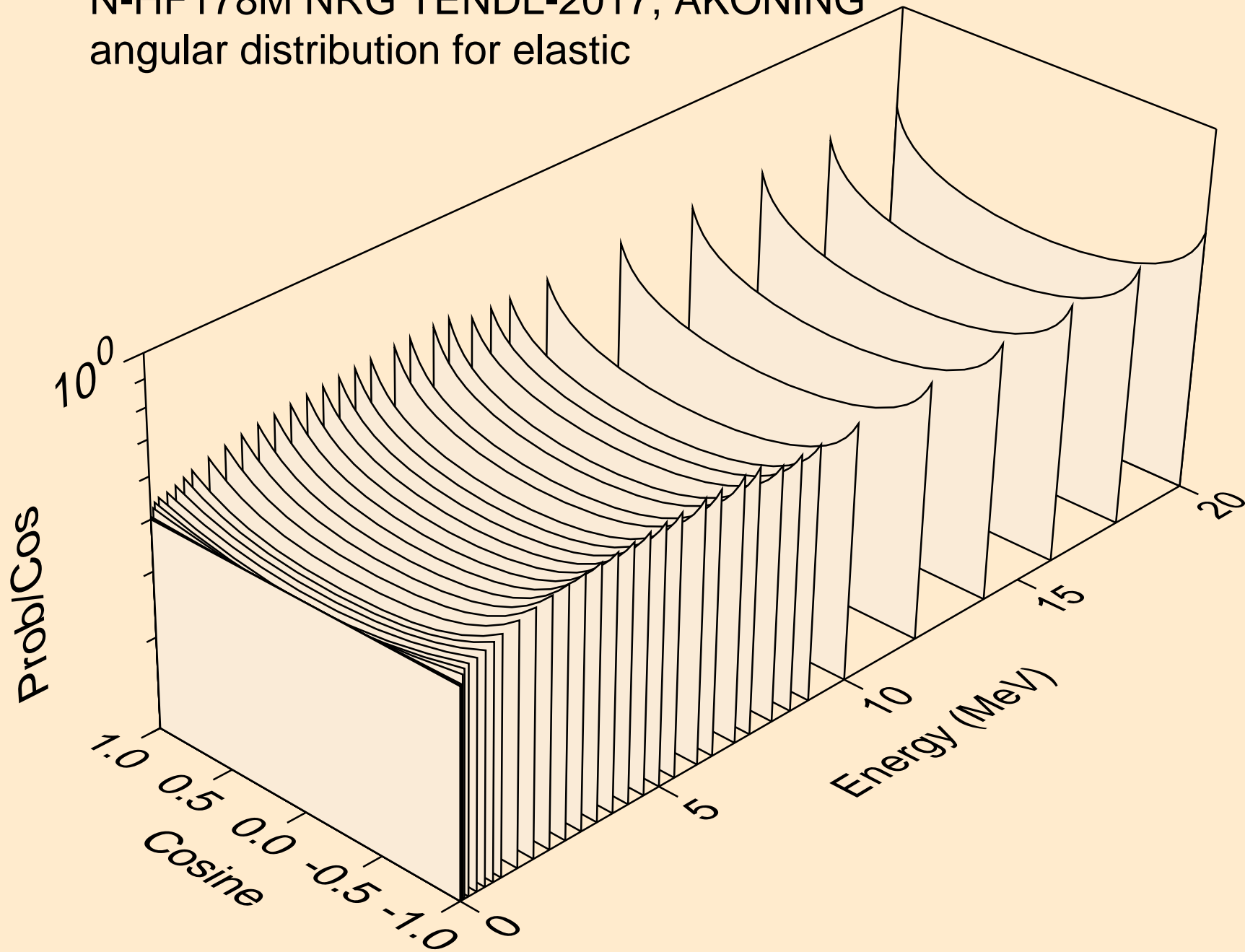
# N-HF178M NRG TENDL-2017, AKONING

## Threshold reactions

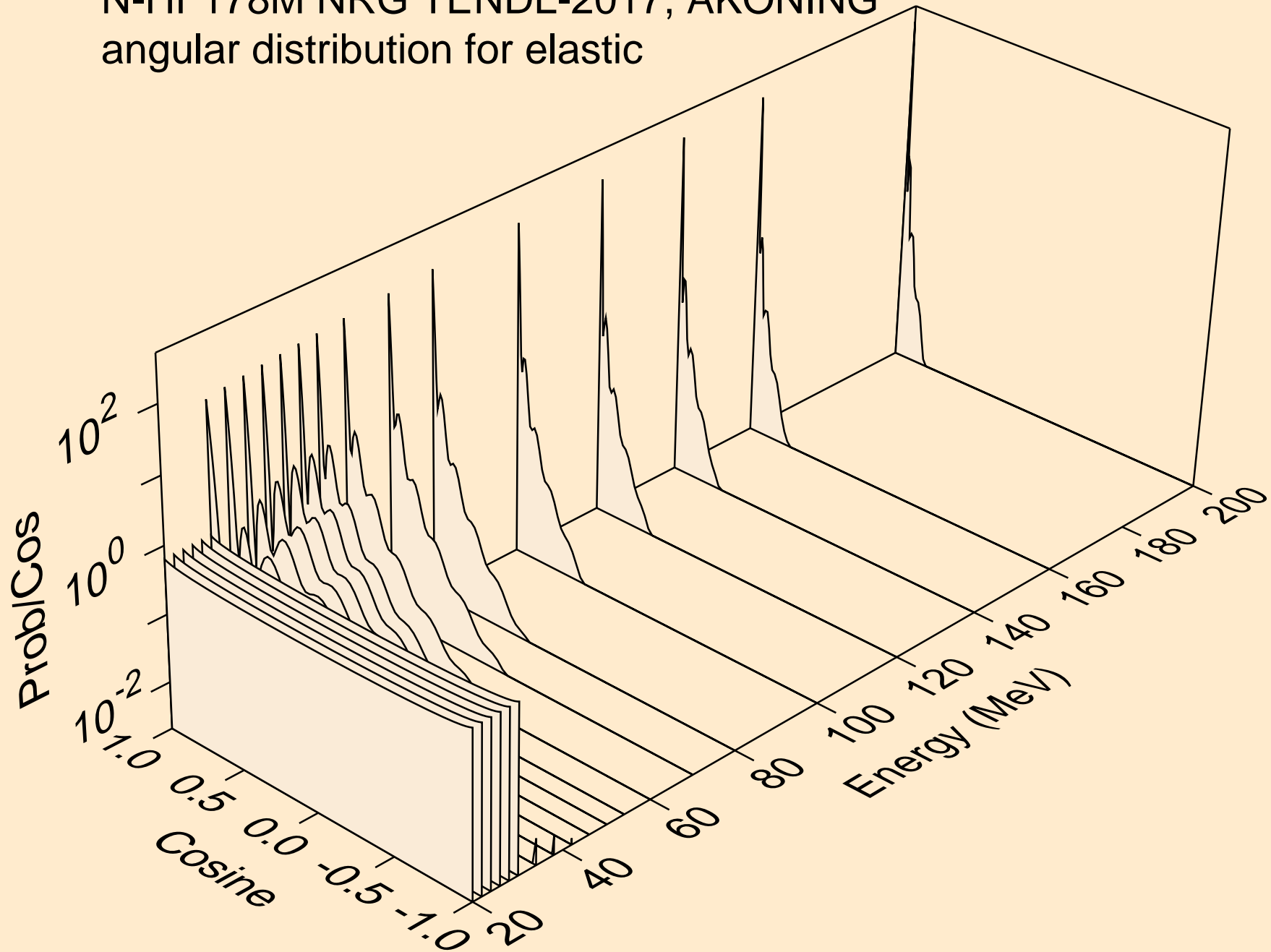




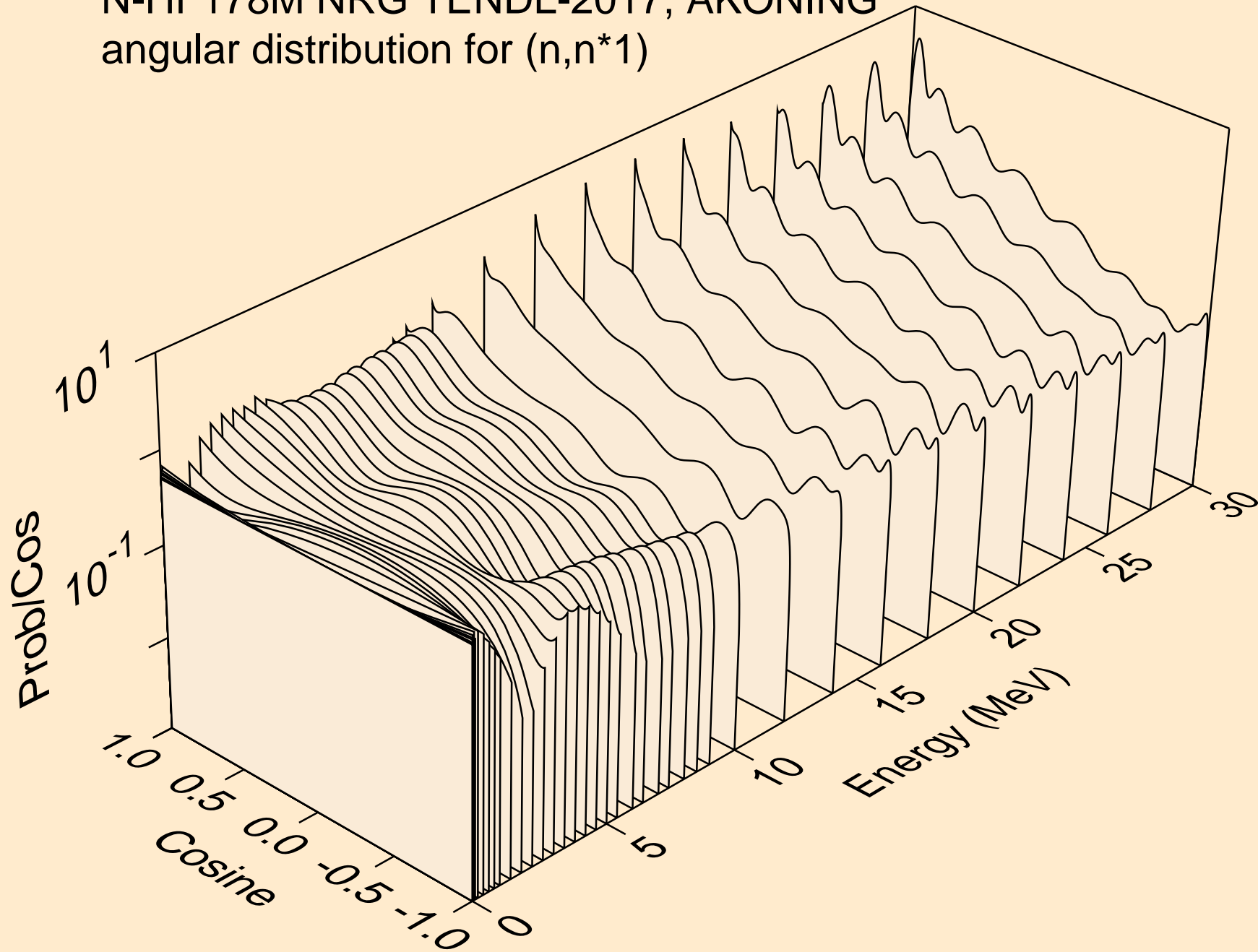
N-HF178M NRG TENDL-2017, AKONING  
angular distribution for elastic



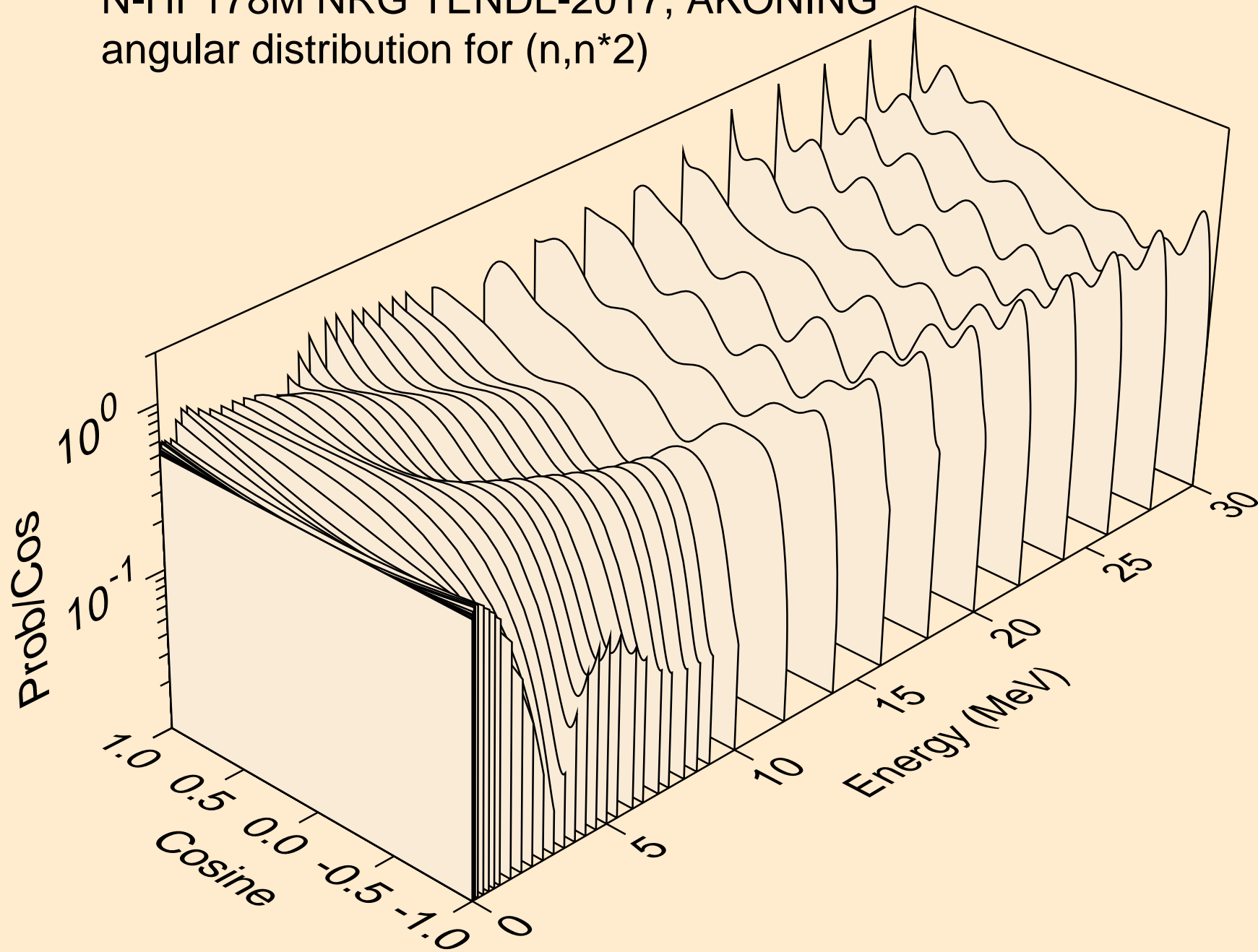
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angular distribution for elastic



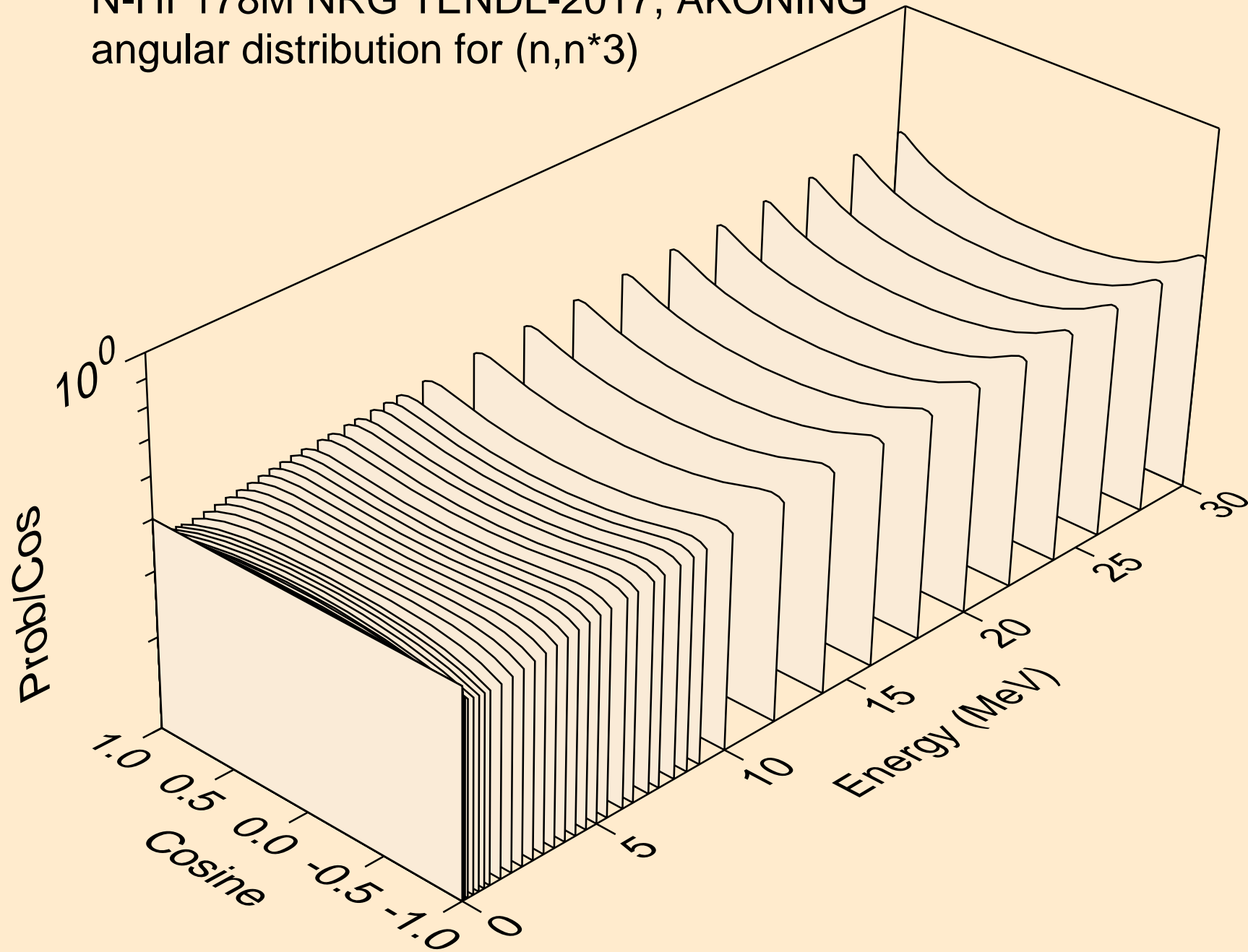
N-HF178M NRG TENDL-2017, AKONING  
angular distribution for (n,n\*1)



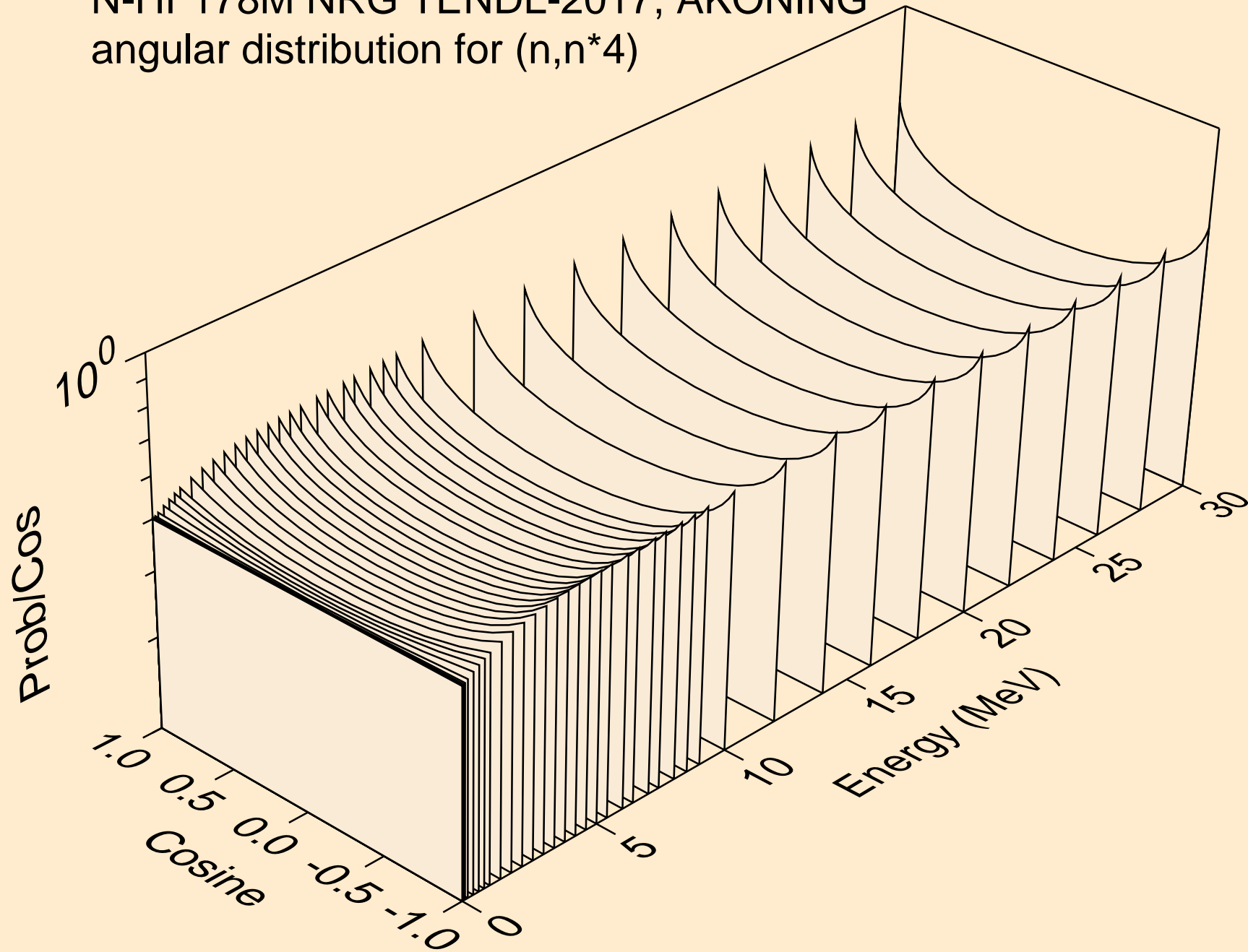
N-HF178M NRG TENDL-2017, AKONING  
angular distribution for (n,n\*2)



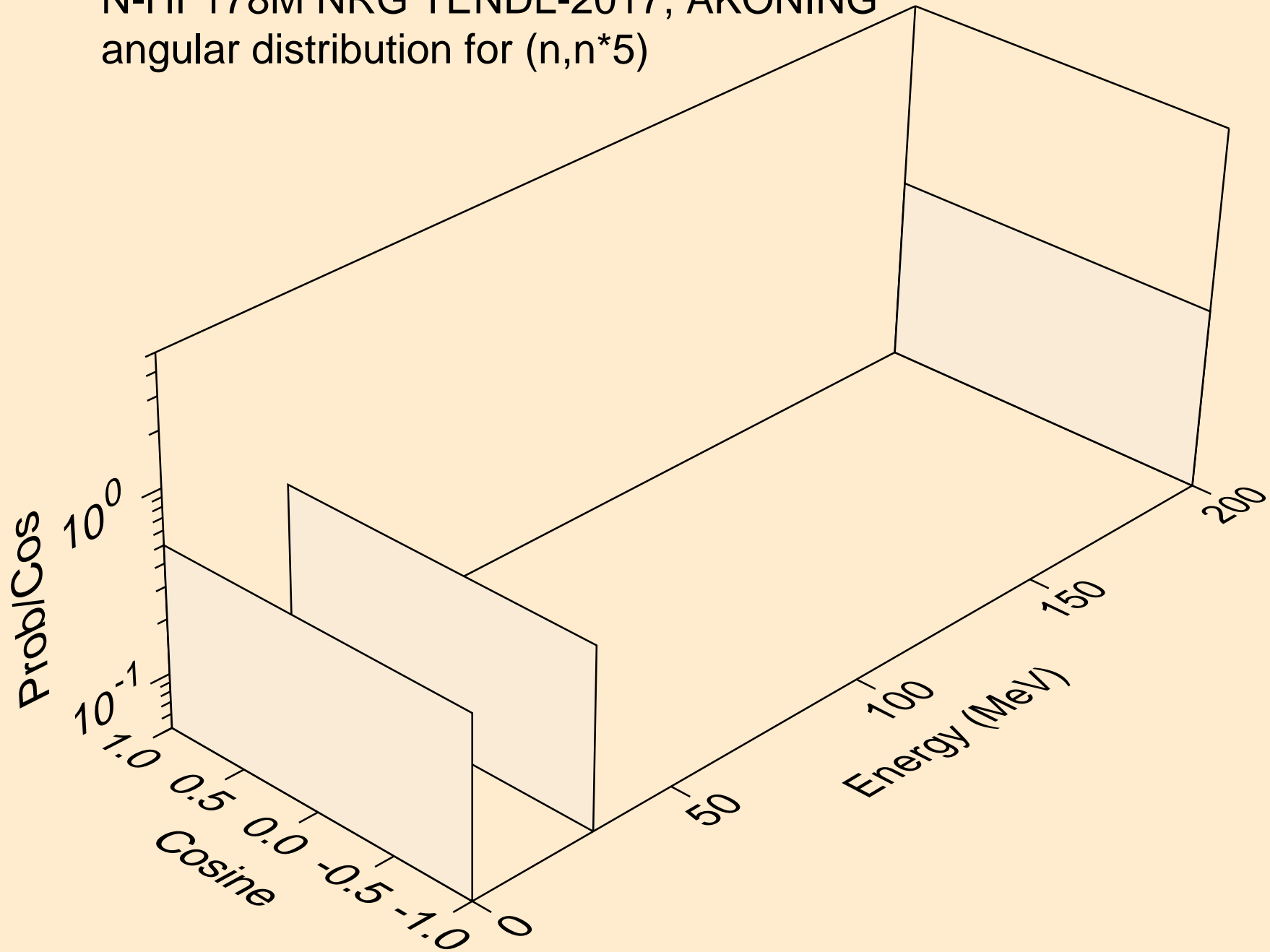
N-HF178M NRG TENDL-2017, AKONING  
angular distribution for (n,n\*3)



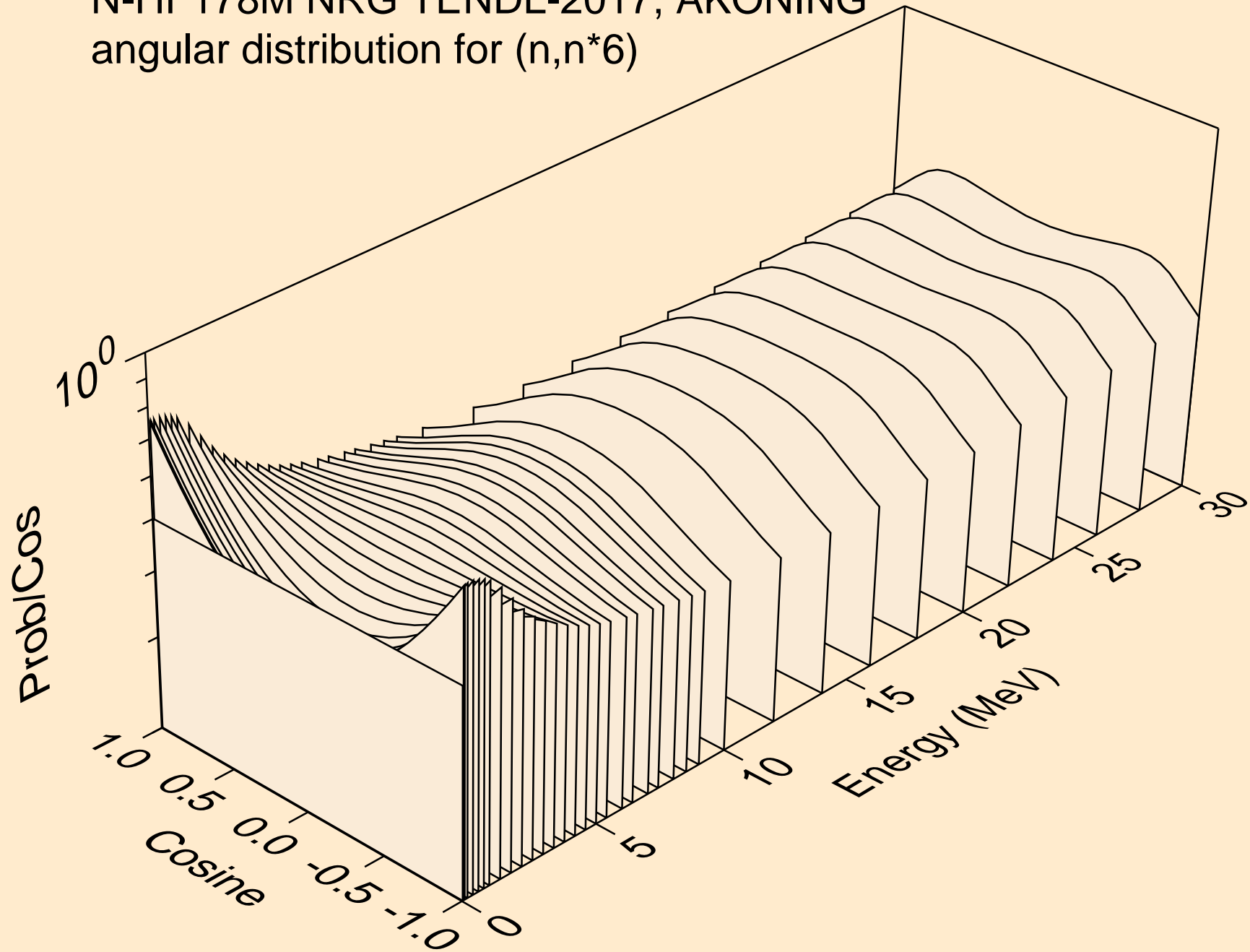
N-HF178M NRG TENDL-2017, AKONING  
angular distribution for (n,n\*4)



N-HF178M NRG TENDL-2017, AKONING  
angular distribution for (n,n\*5)

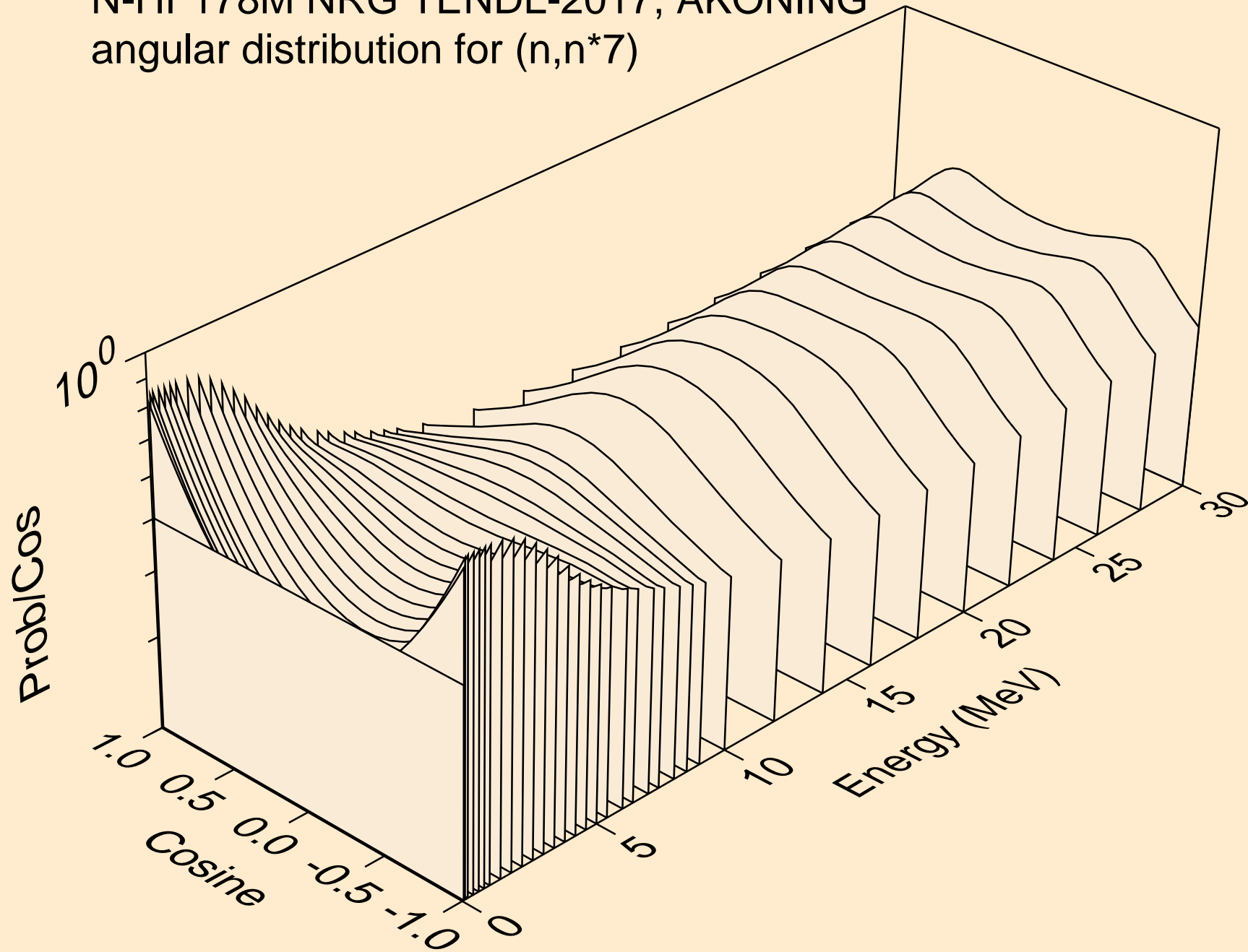


N-HF178M NRG TENDL-2017, AKONING  
angular distribution for (n,n\*6)

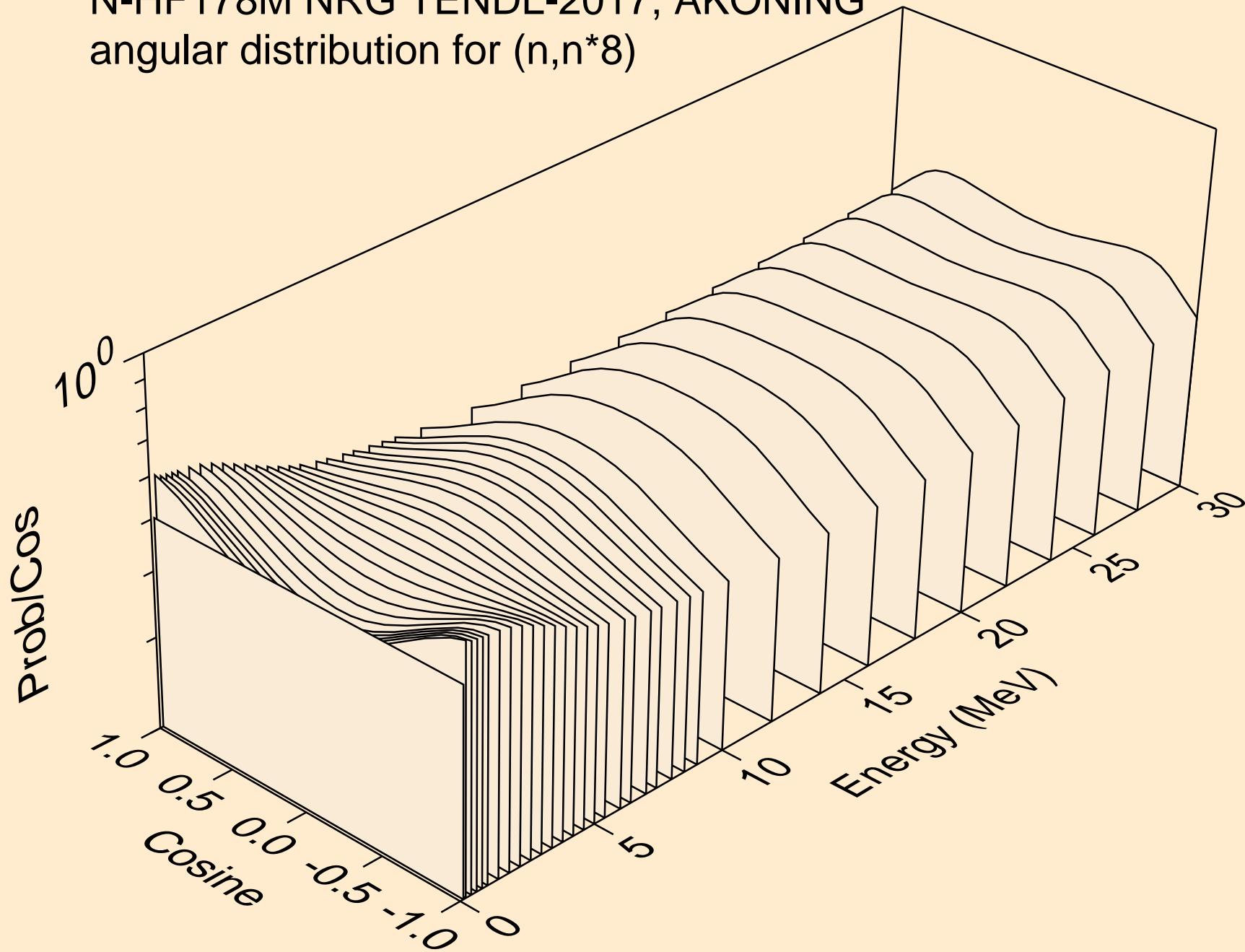




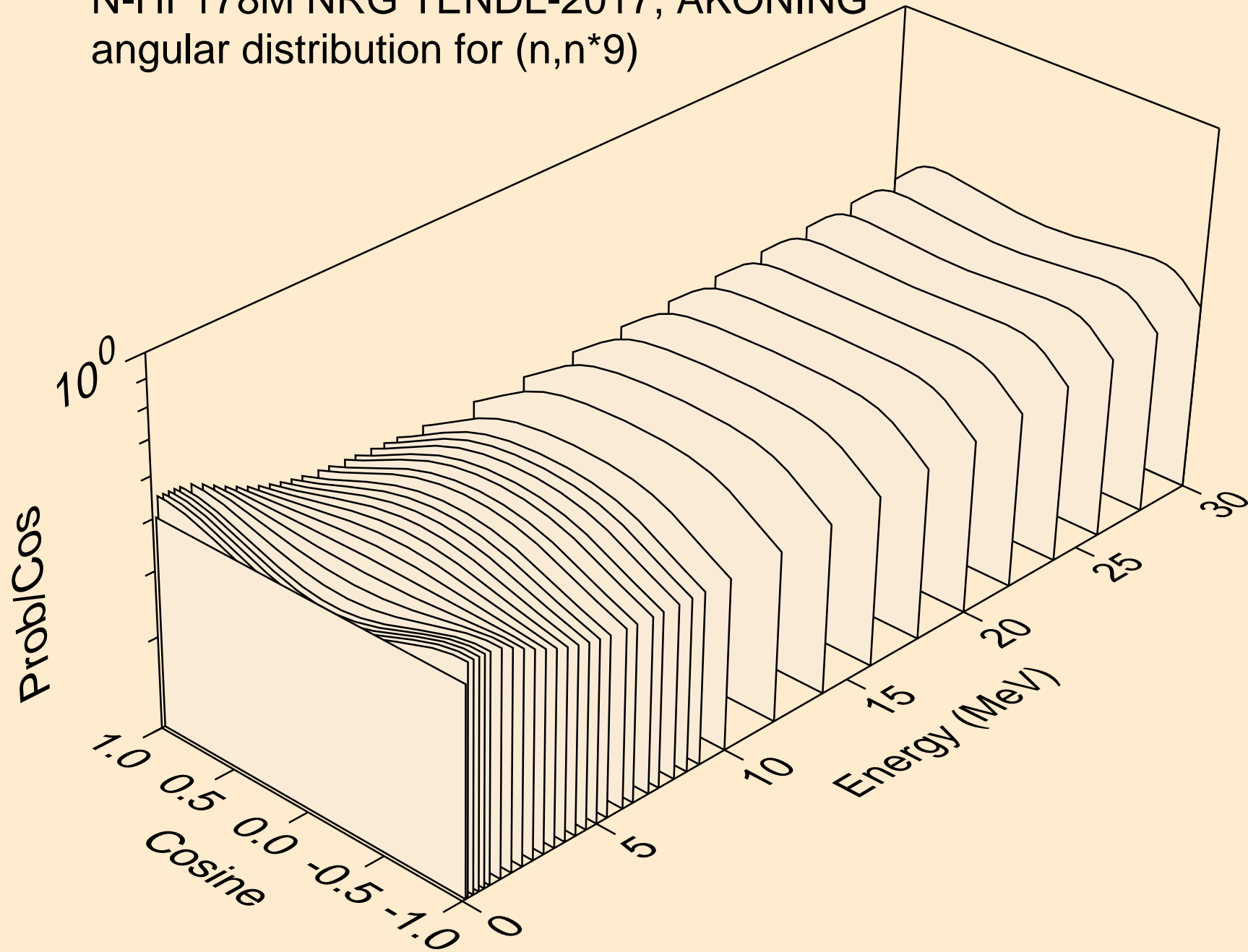
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angular distribution for (n,n\*7)



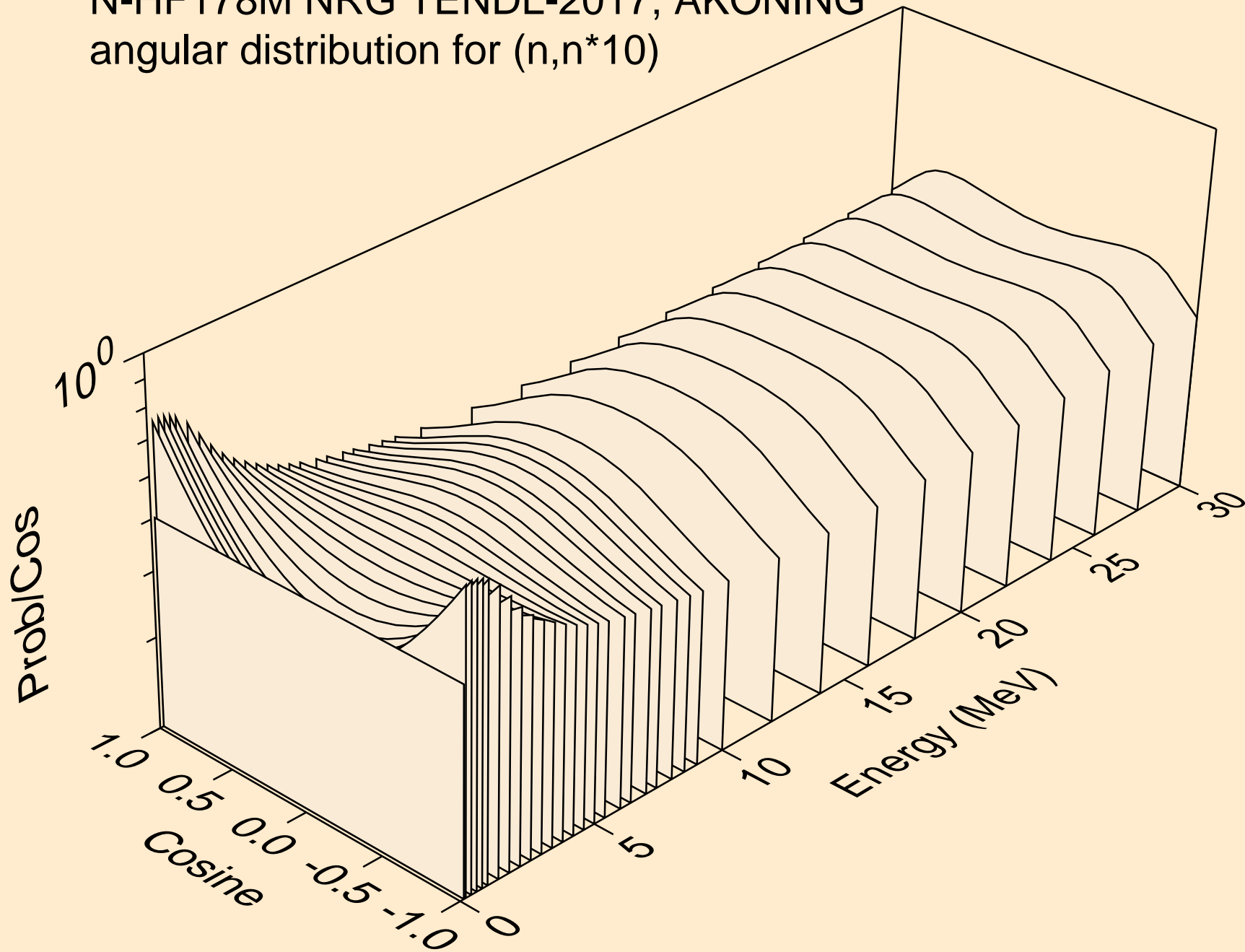
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angular distribution for (n,n\*8)



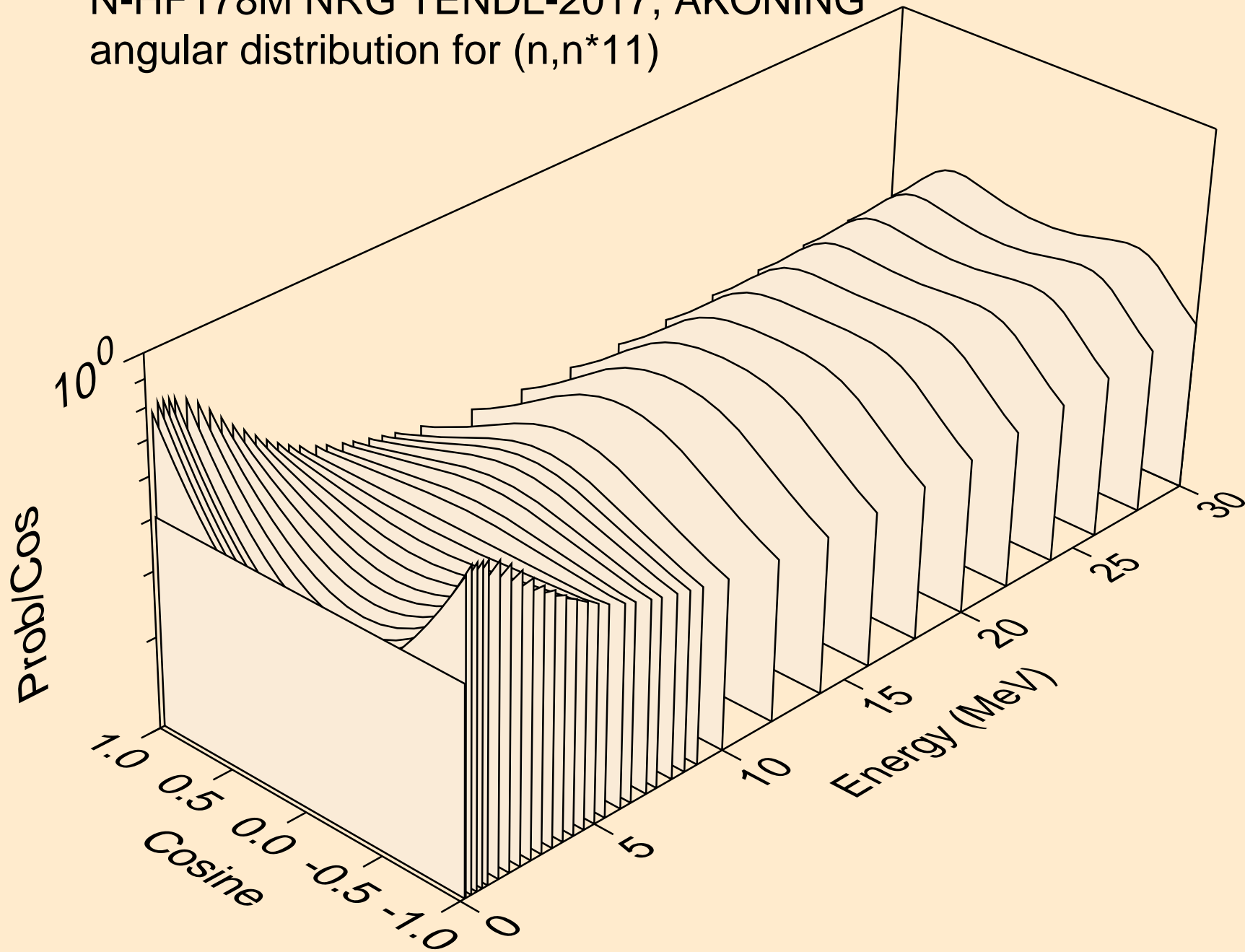
N-HF178M NRG TENDL-2017, AKONING  
angular distribution for (n,n\*9)



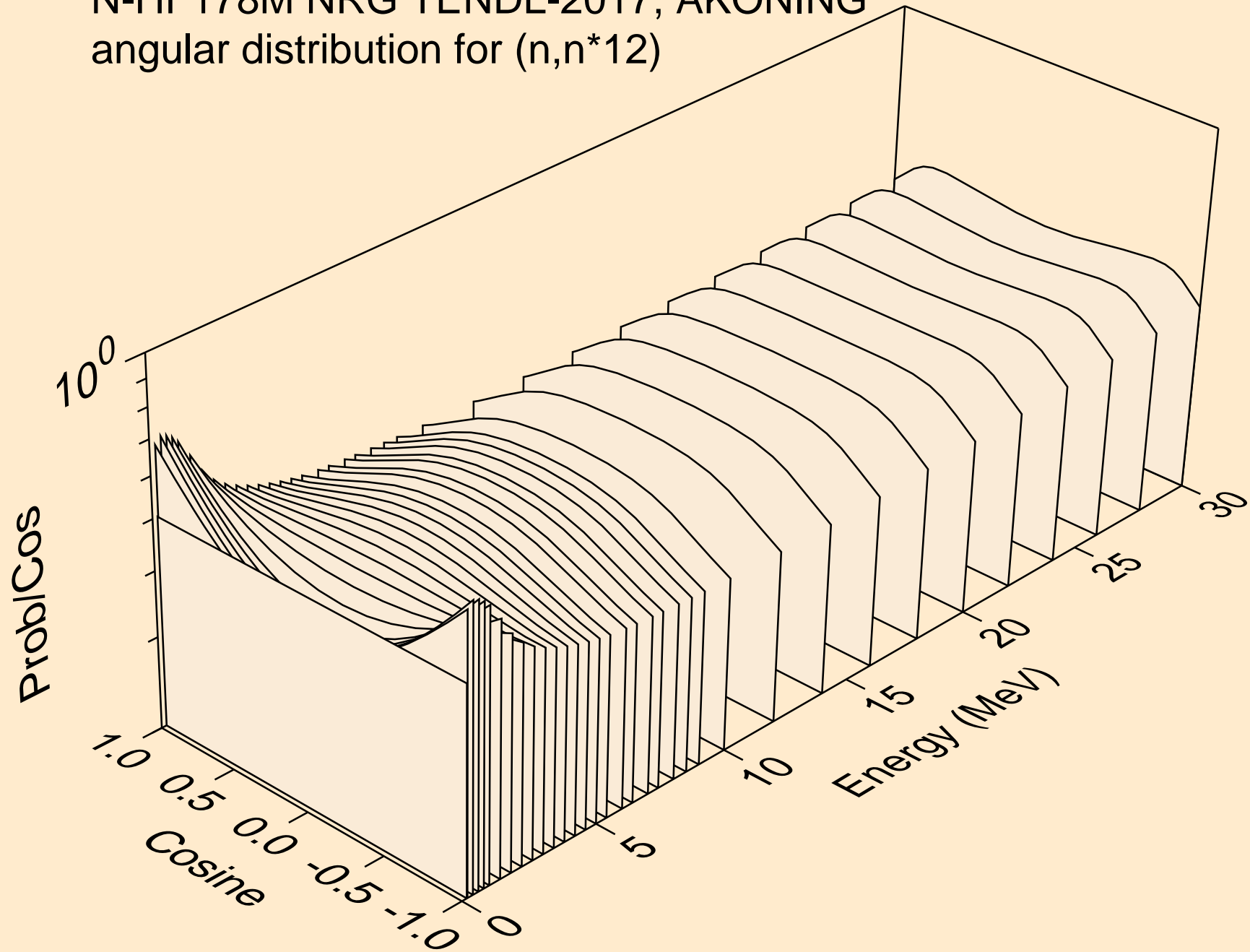
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angular distribution for (n,n\*10)



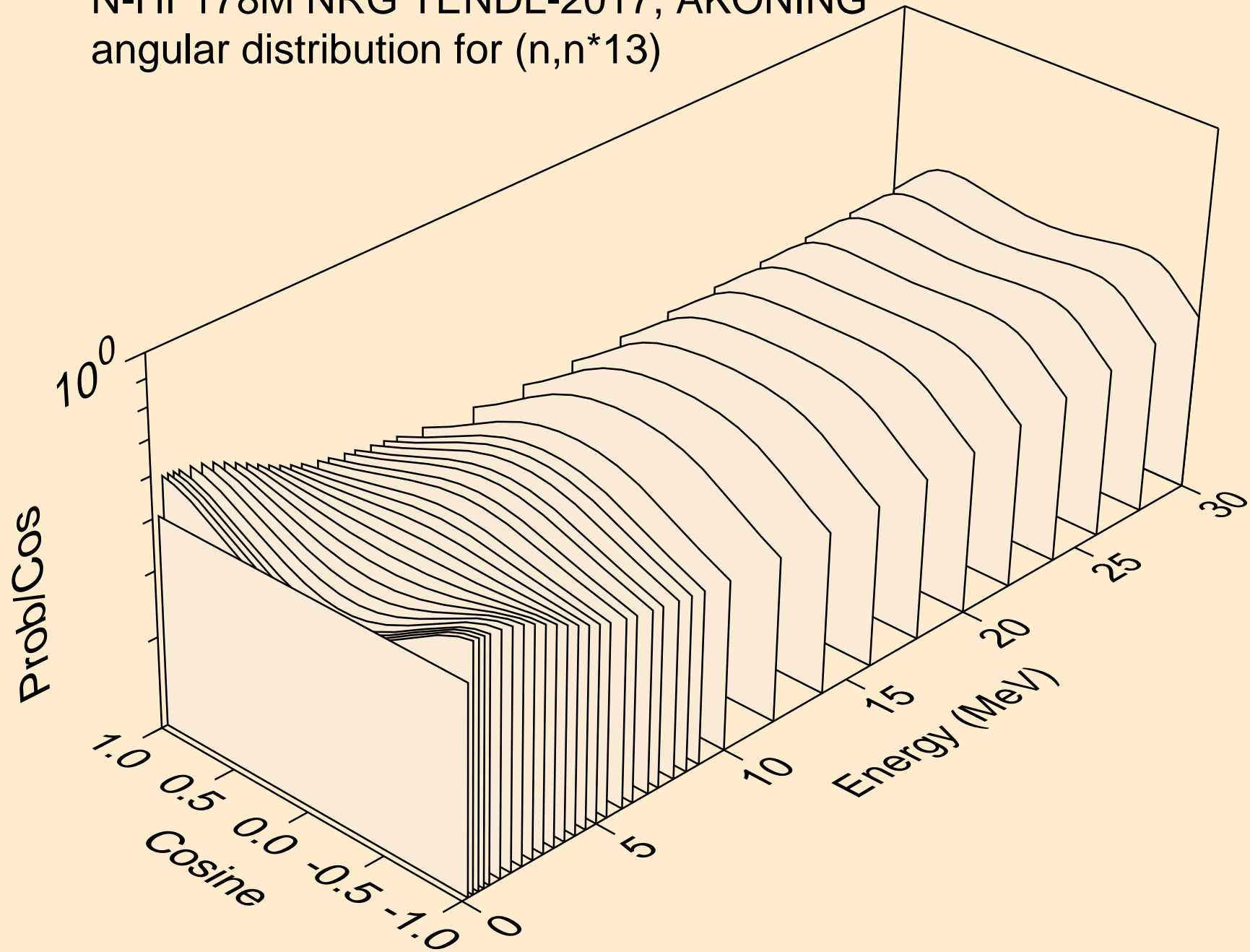
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angular distribution for (n,n\*11)



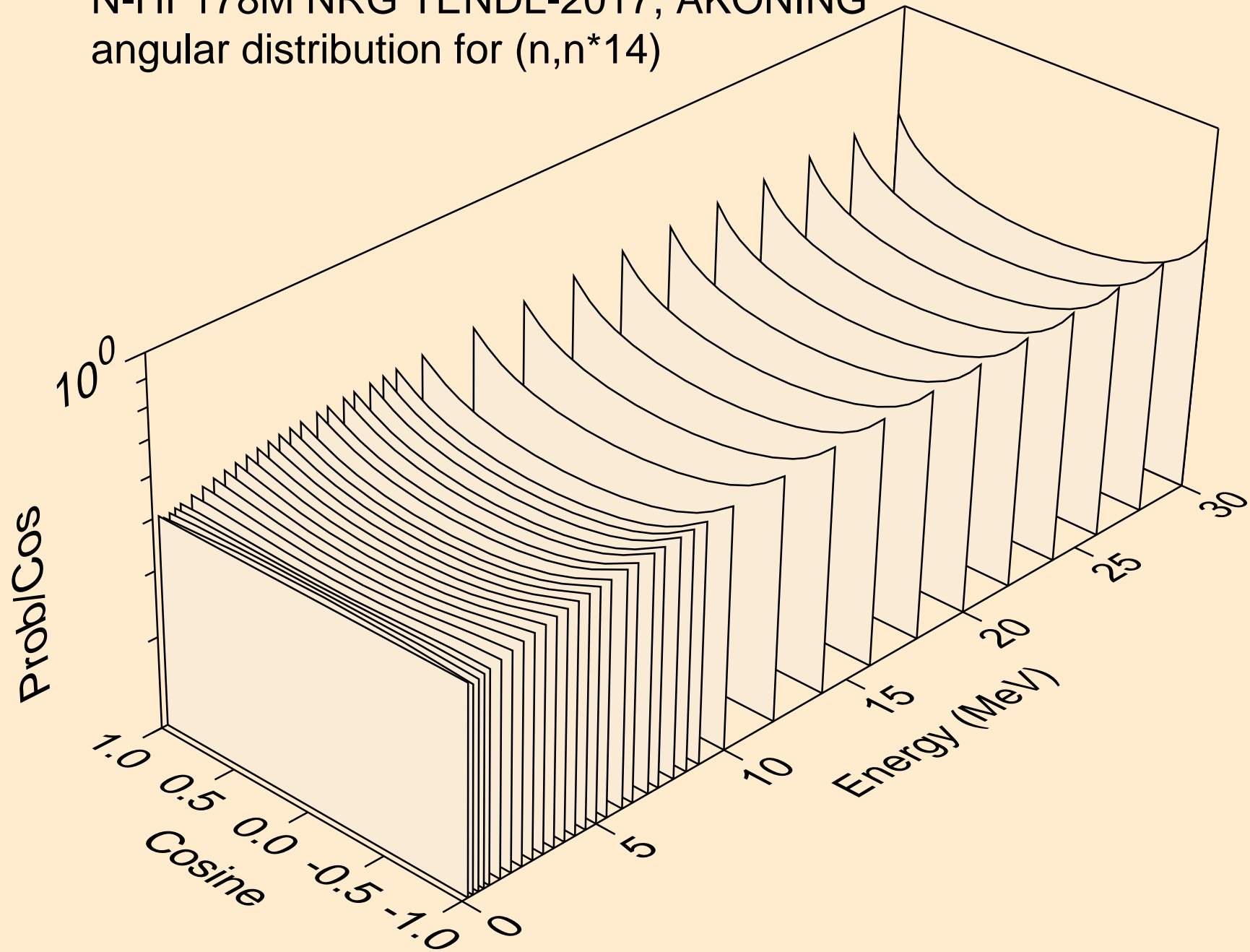
N-HF178M NRG TENDL-2017, AKONING  
angular distribution for (n,n\*12)



N-HF178M NRG TENDL-2017, AKONING  
angular distribution for (n,n\*13)

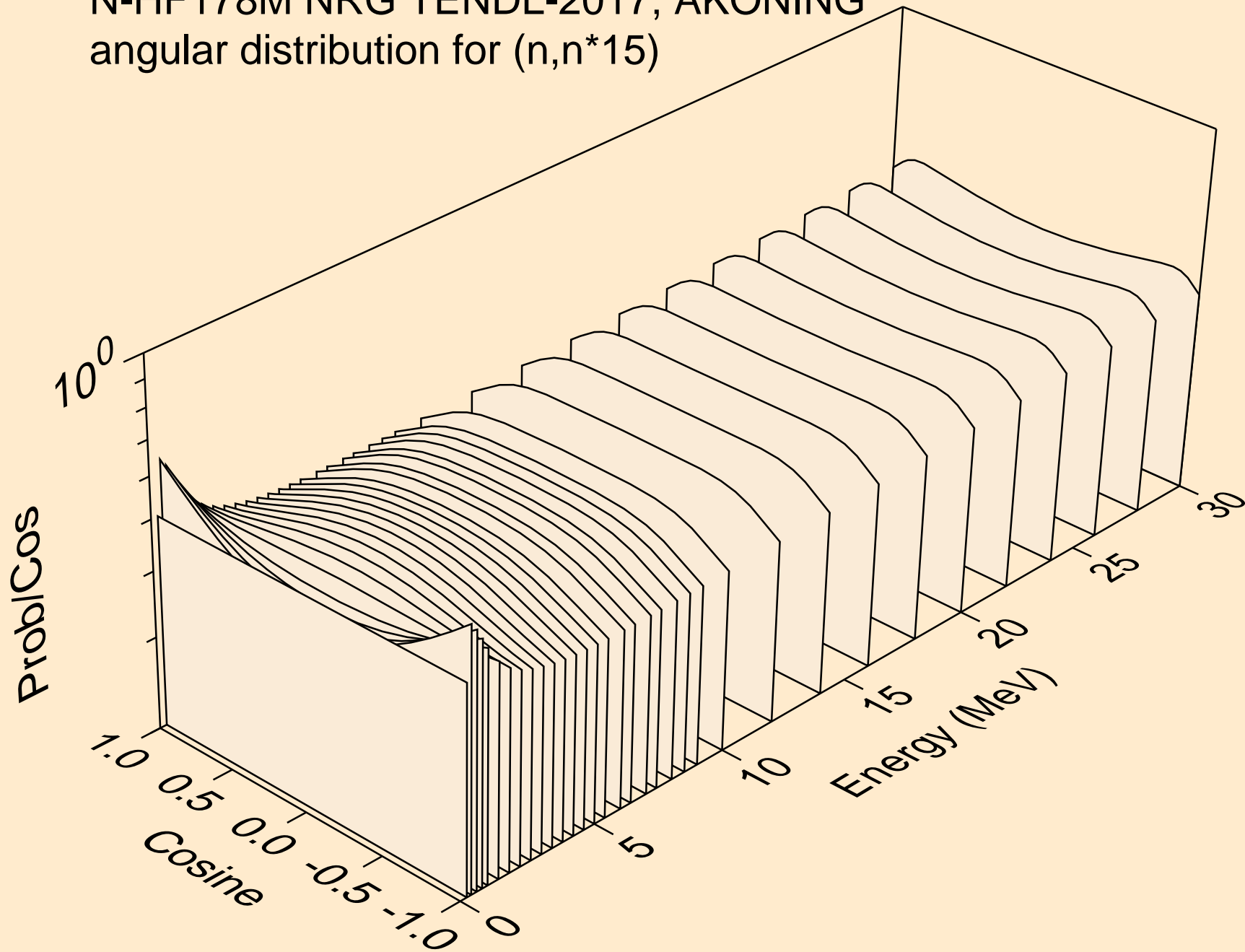


N-HF178M NRG TENDL-2017, AKONING  
angular distribution for (n,n\*14)

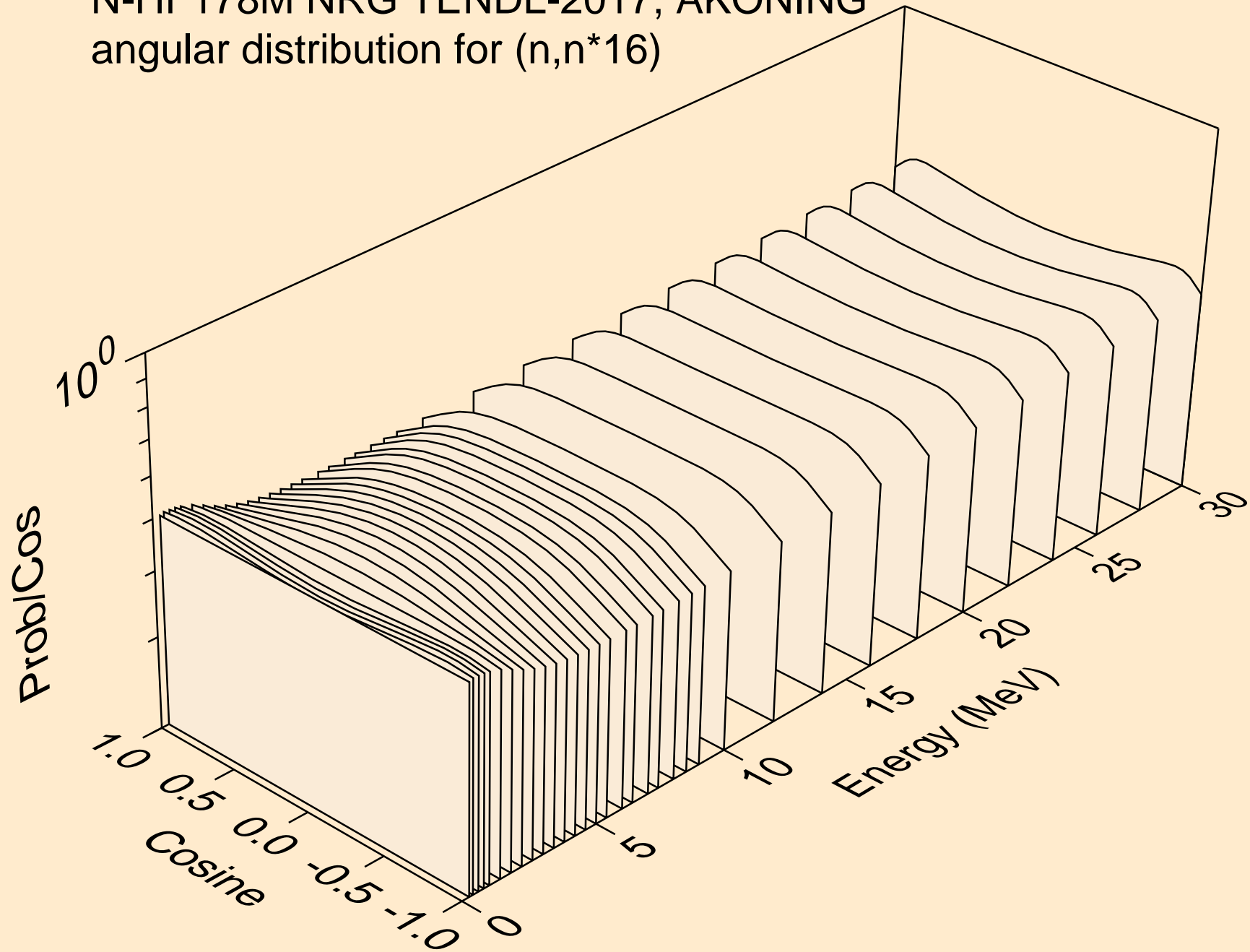




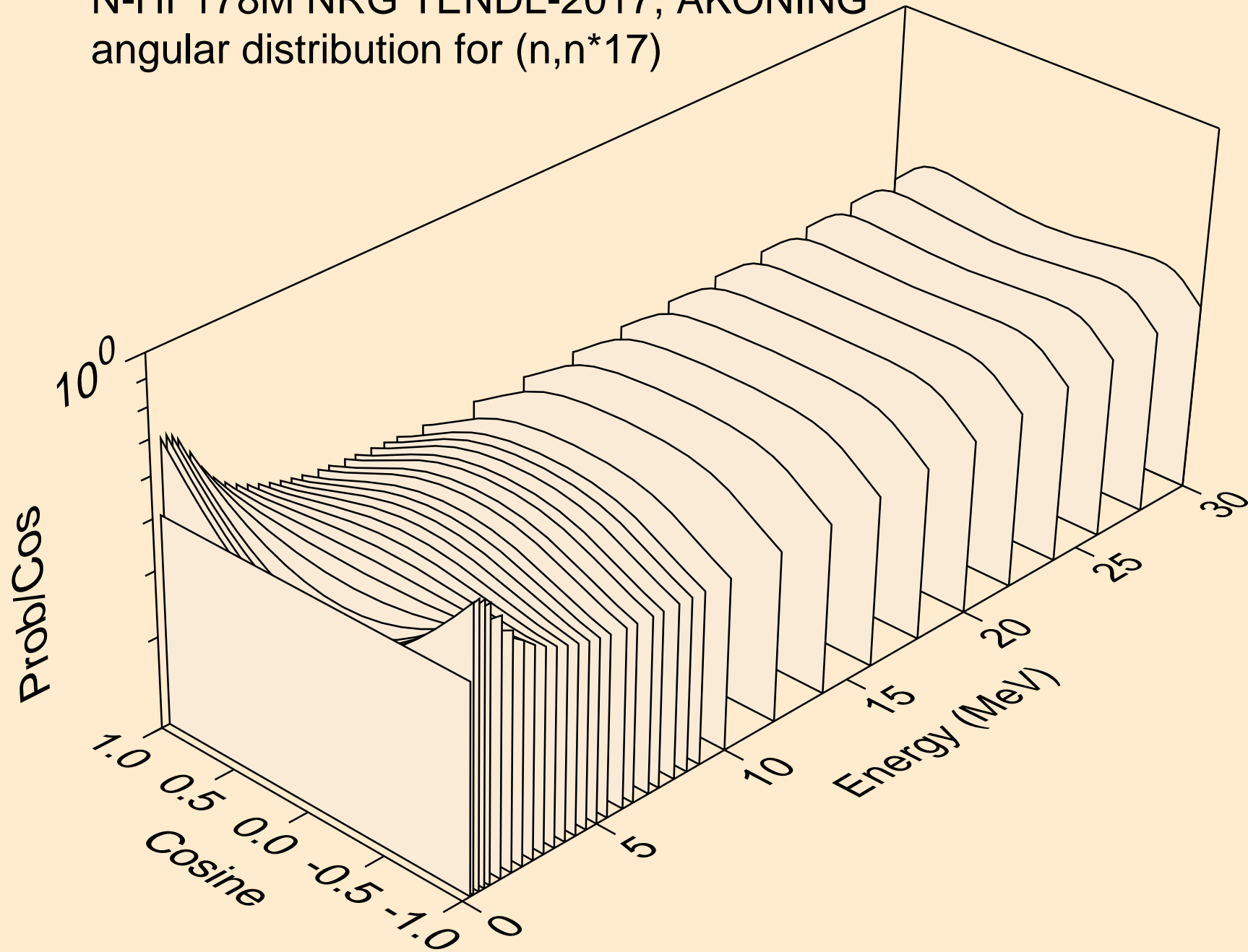
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angular distribution for (n,n\*15)



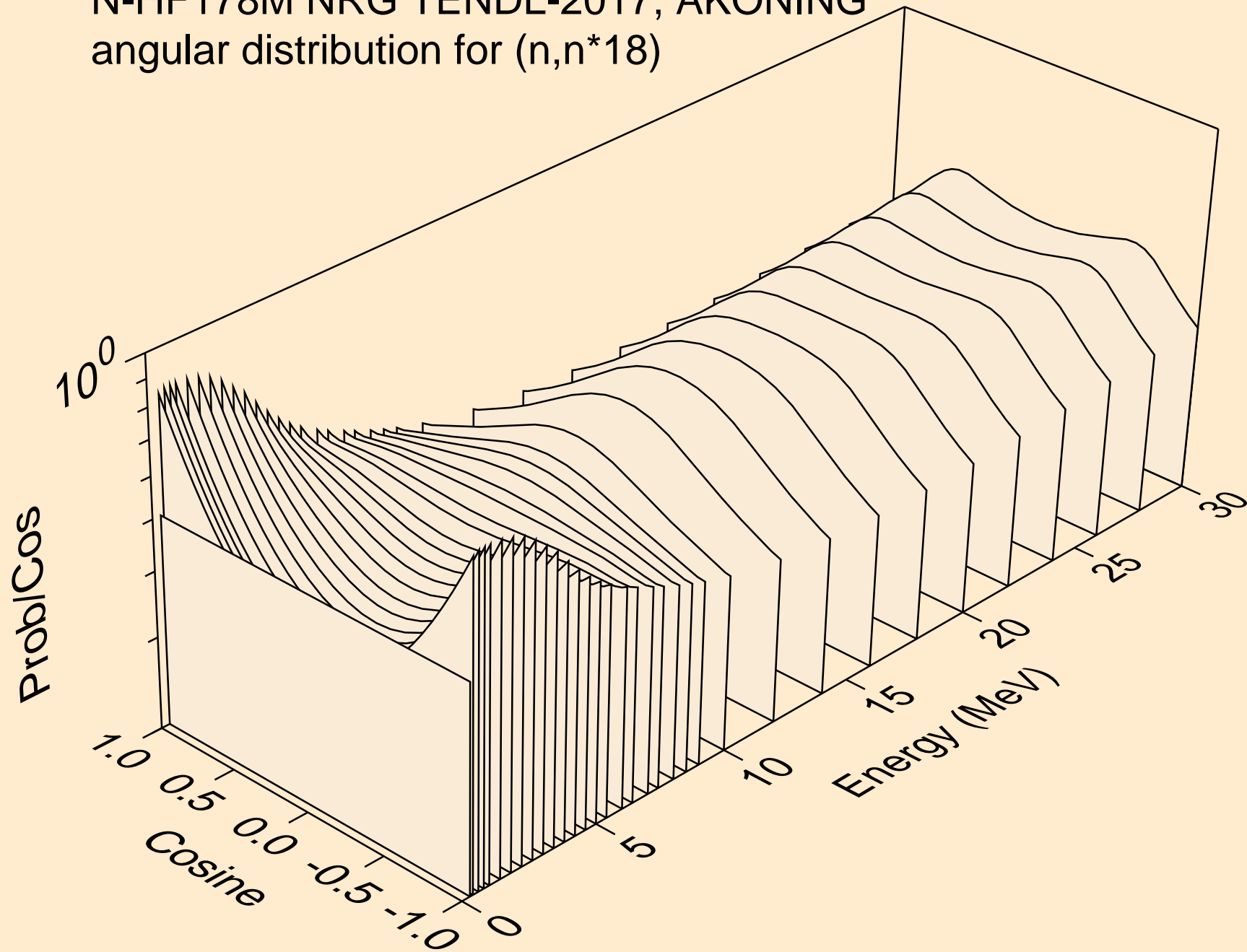
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angular distribution for (n,n\*16)



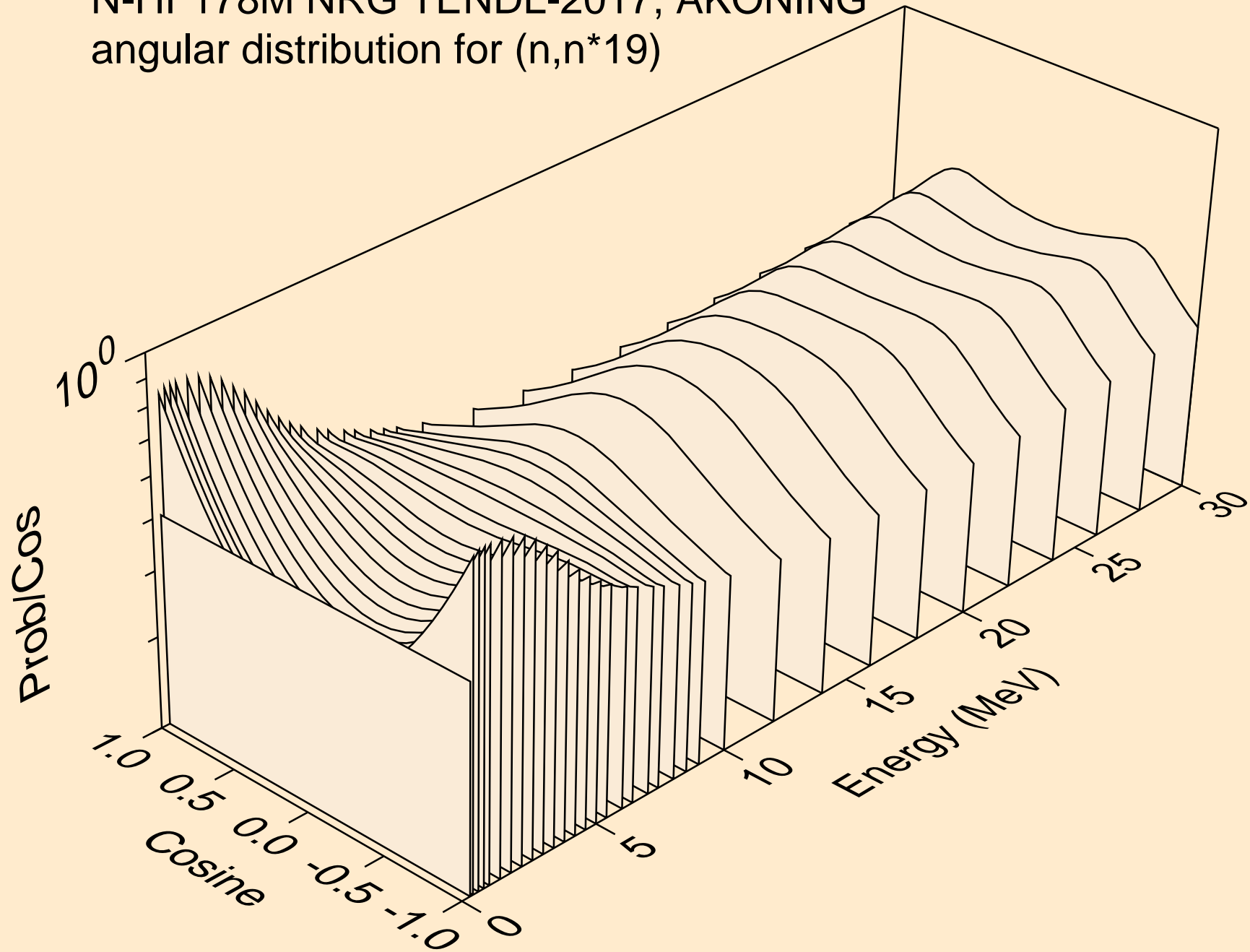
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angular distribution for (n,n\*17)



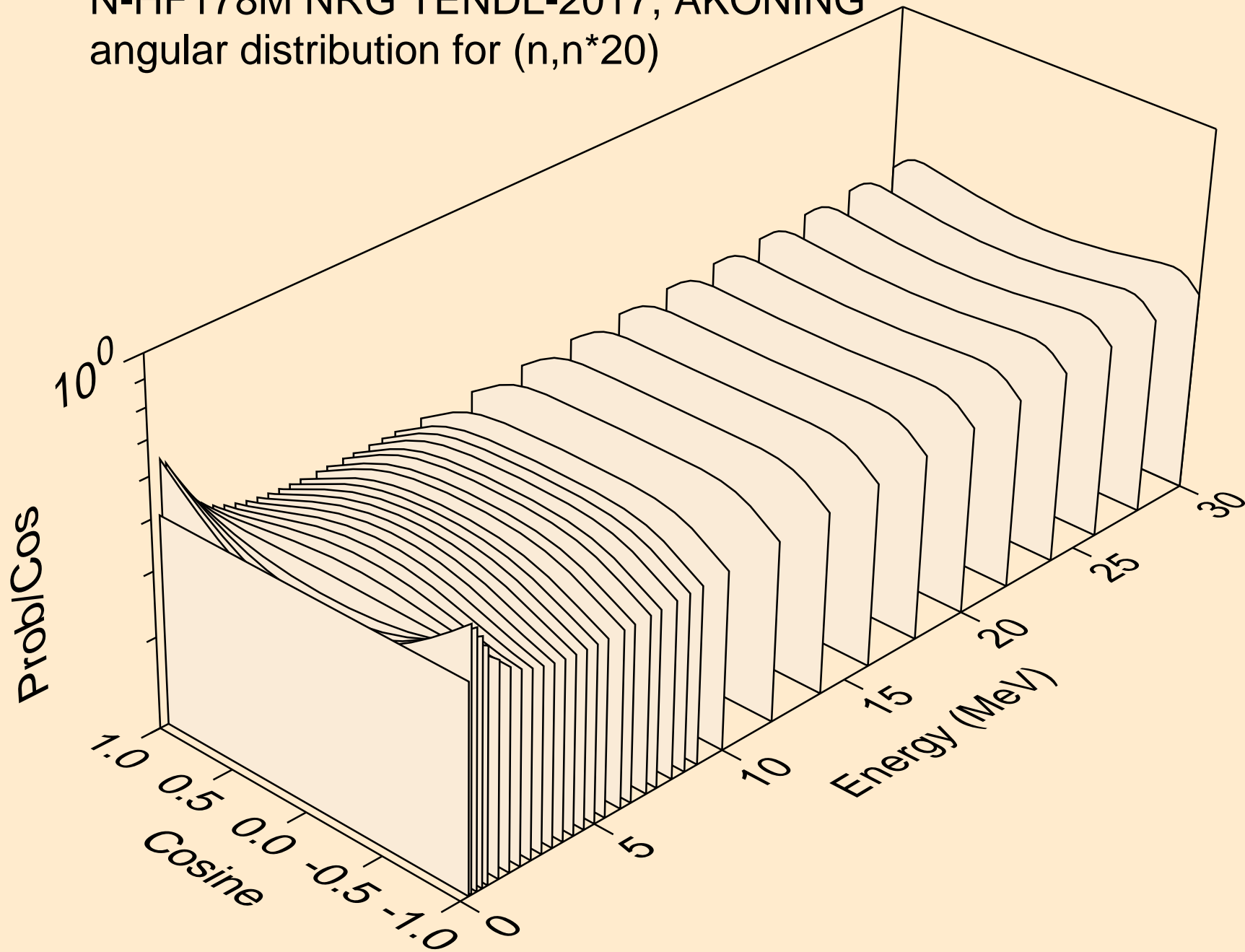
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angular distribution for (n,n\*18)



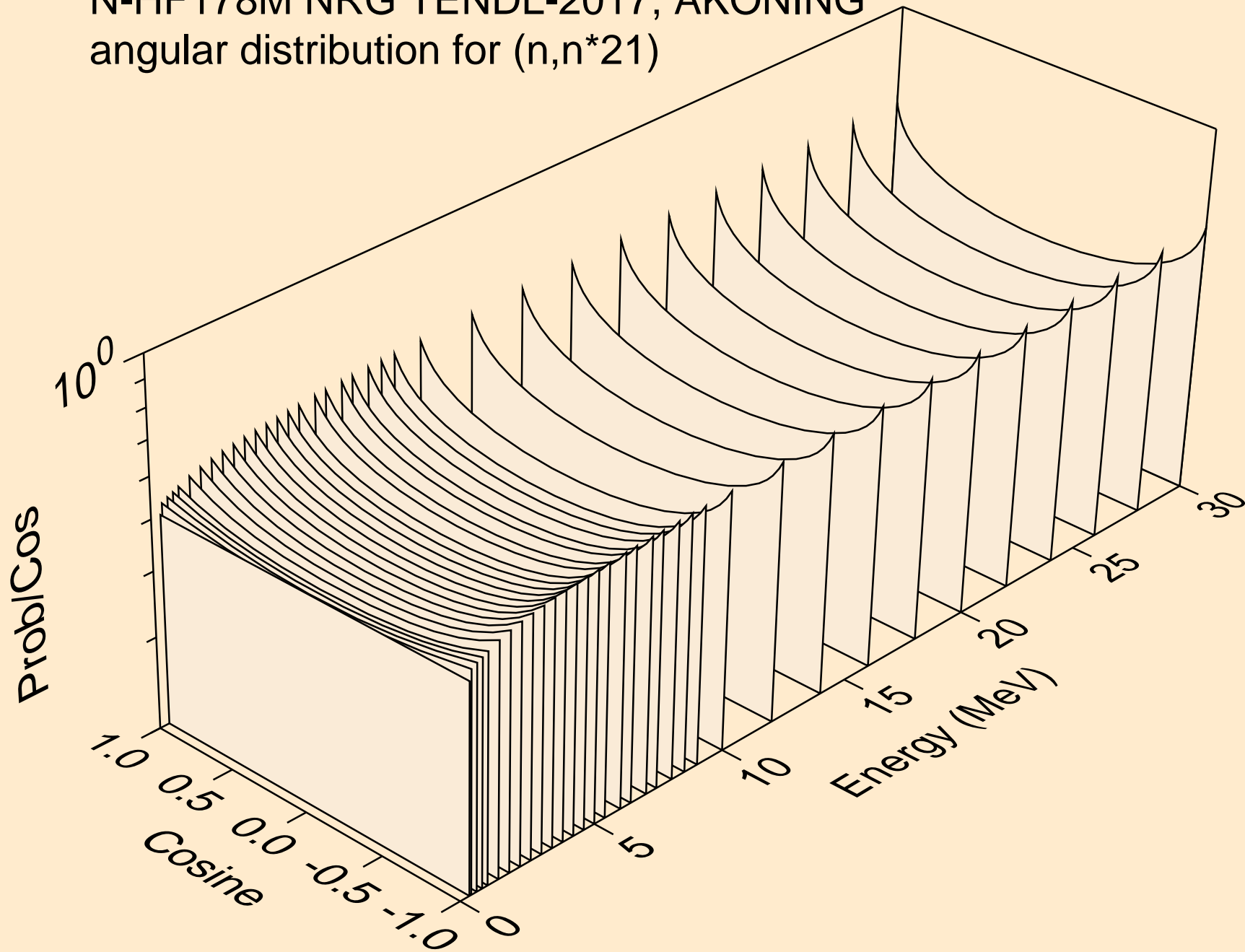
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angular distribution for (n,n\*19)



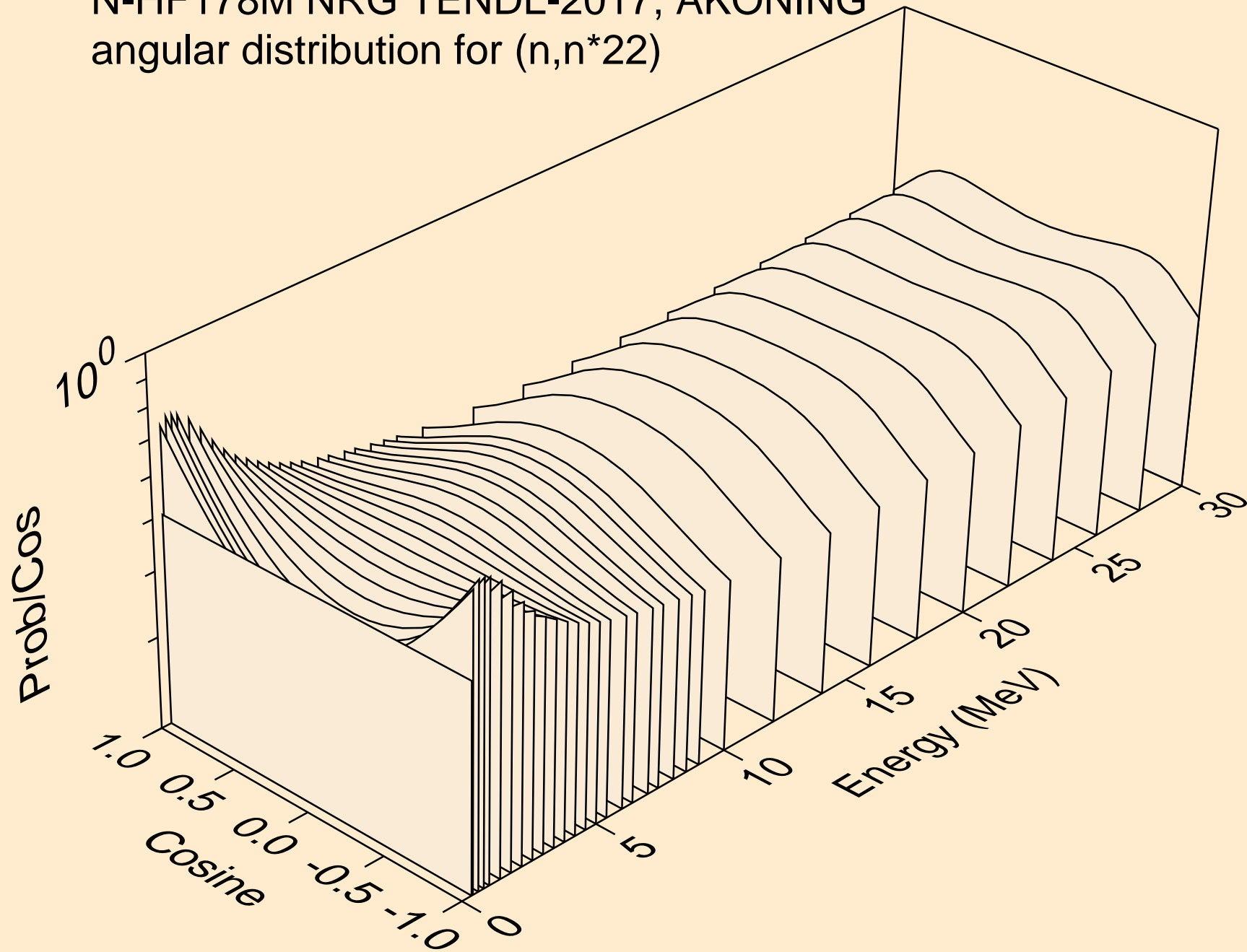
N-HF178M NRG TENDL-2017, AKONING  
angular distribution for (n,n\*20)



N-HF178M NRG TENDL-2017, AKONING  
angular distribution for (n,n\*21)

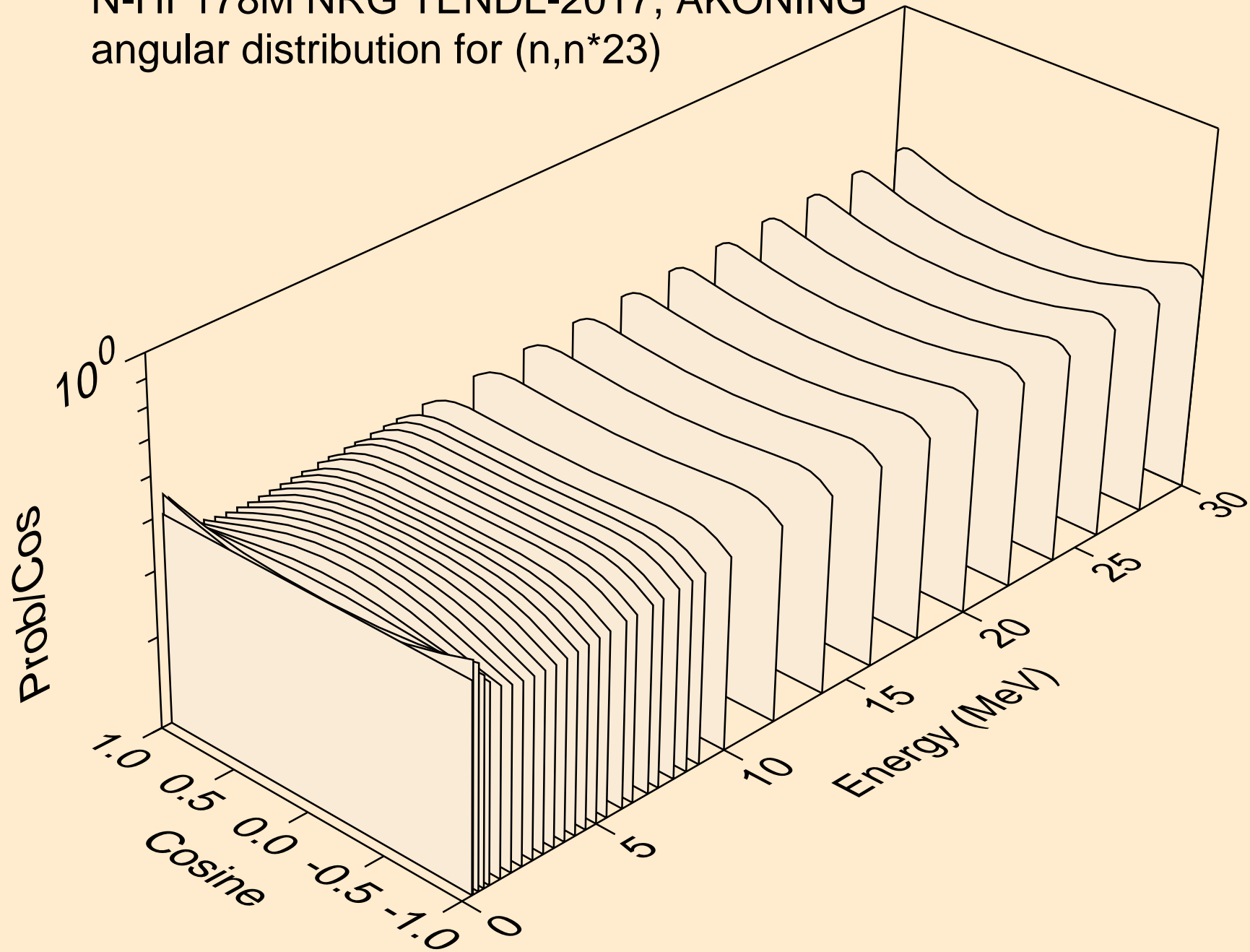


N-HF178M NRG TENDL-2017, AKONING  
angular distribution for (n,n\*22)

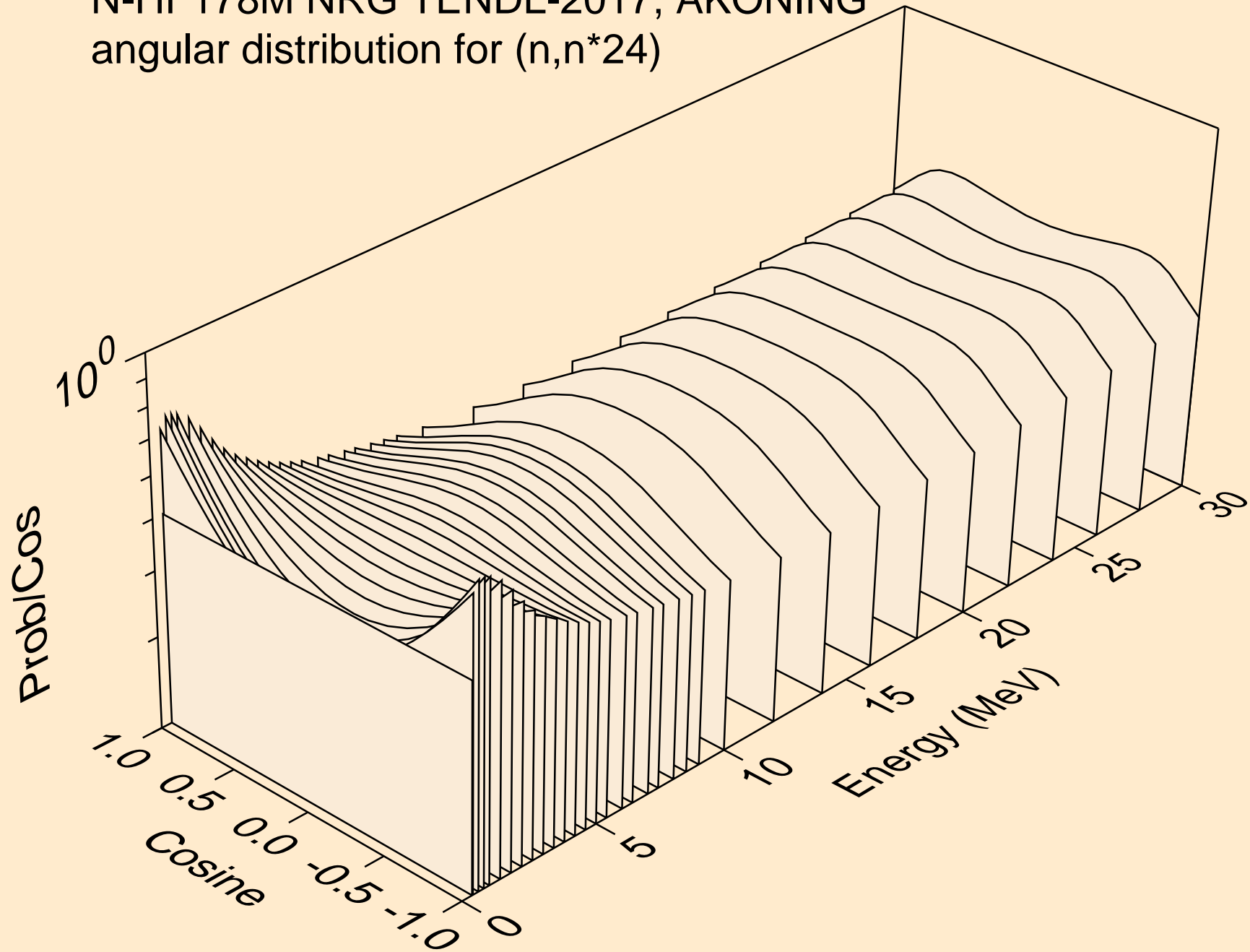




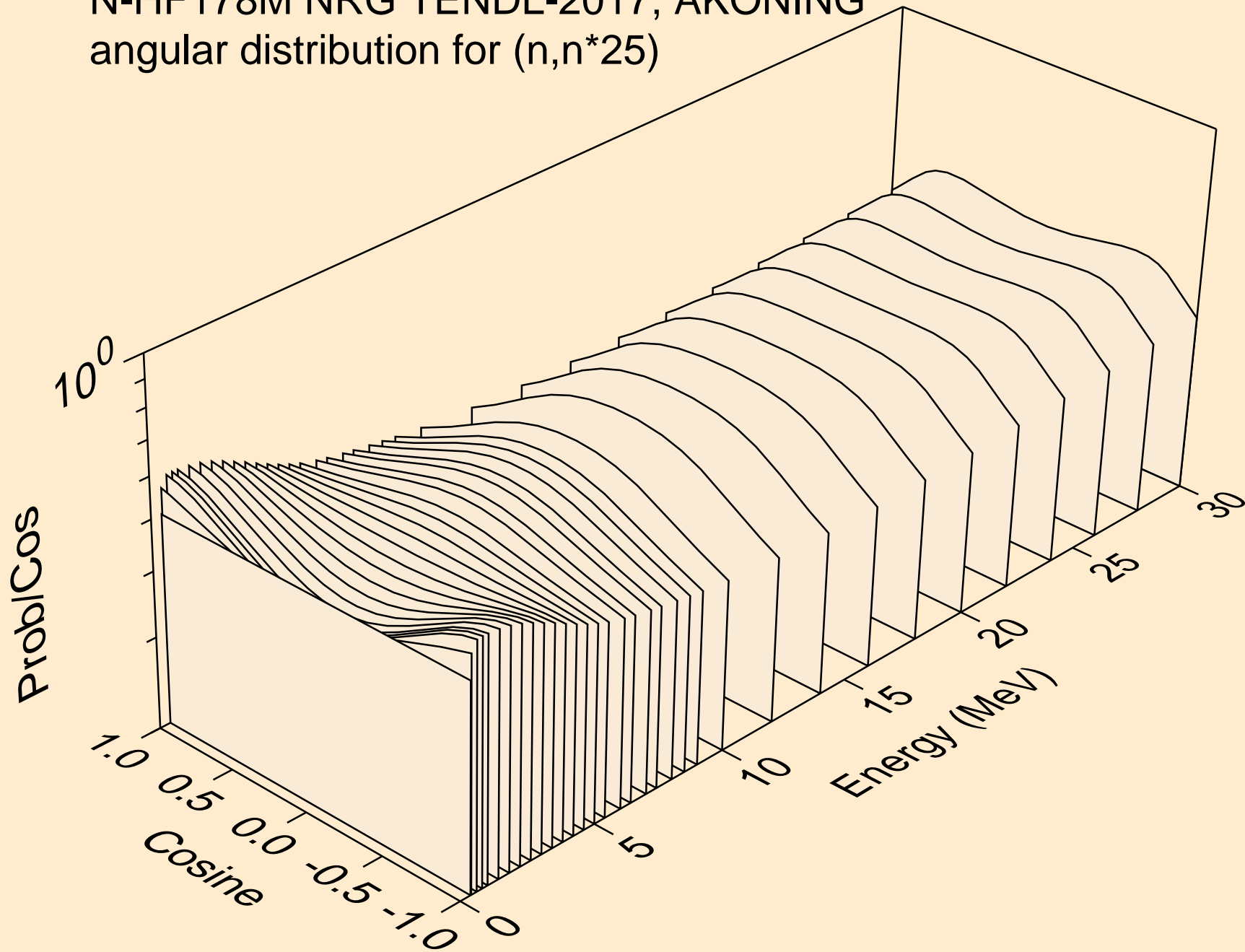
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angular distribution for (n,n\*23)



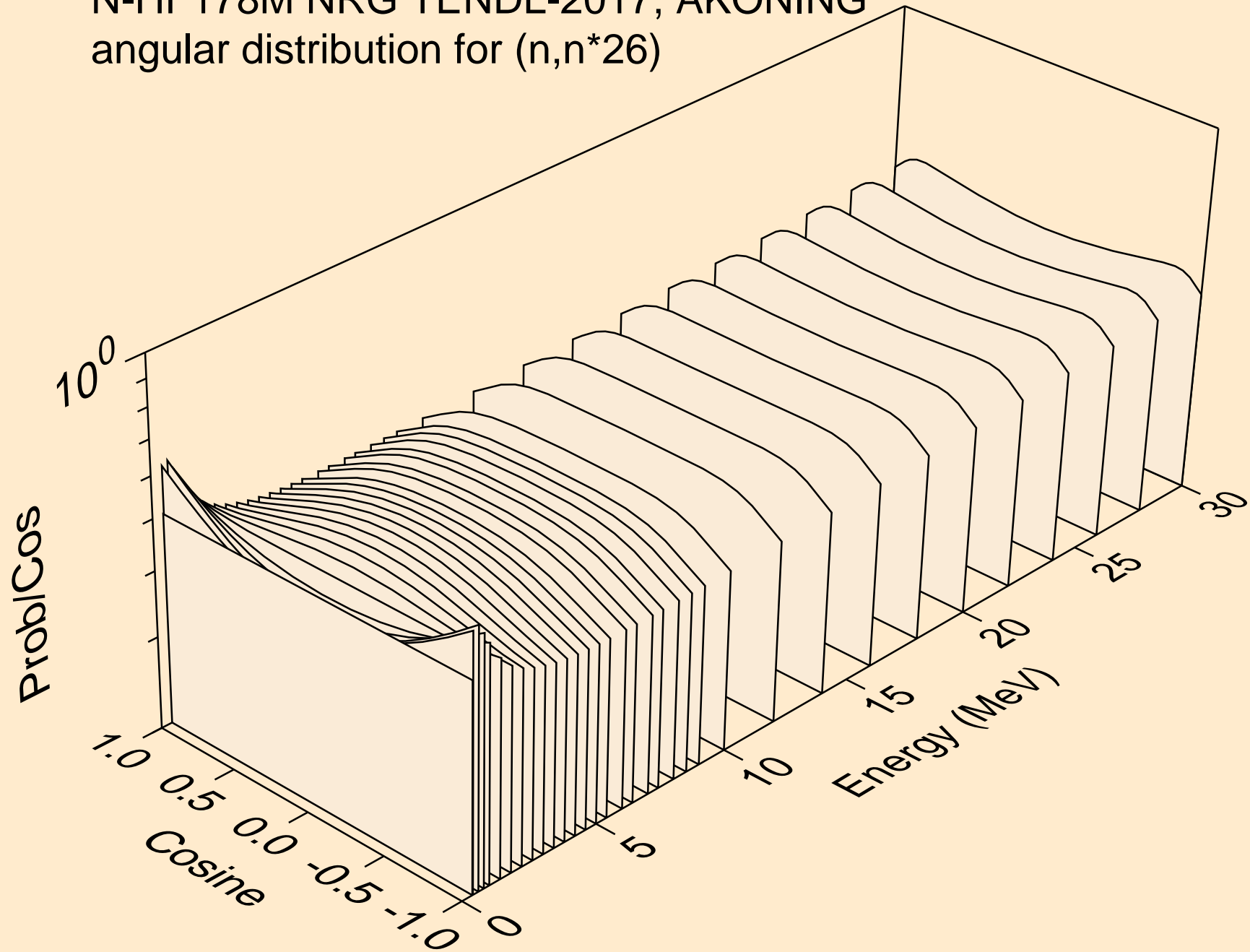
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angular distribution for (n,n\*24)



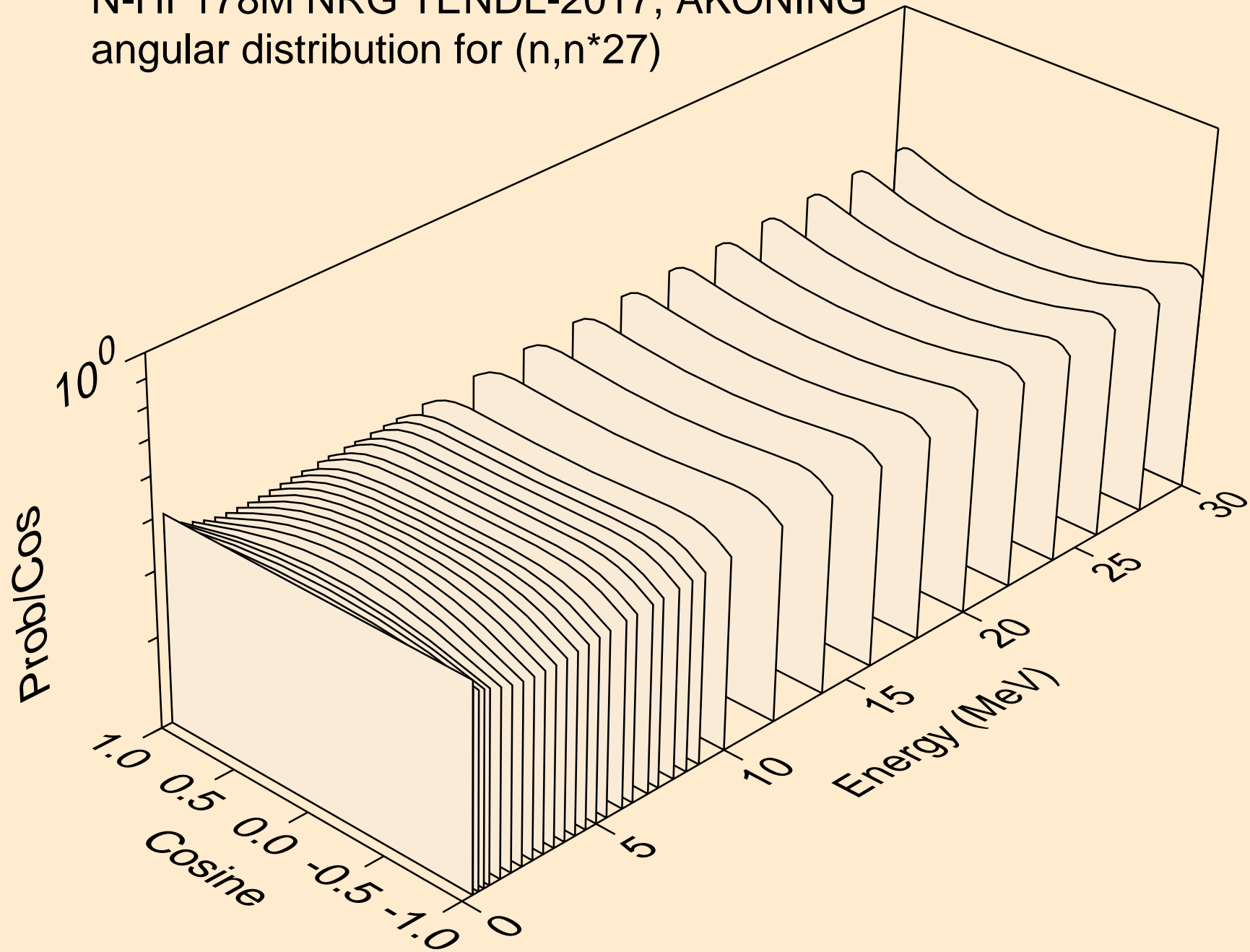
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angular distribution for (n,n\*25)



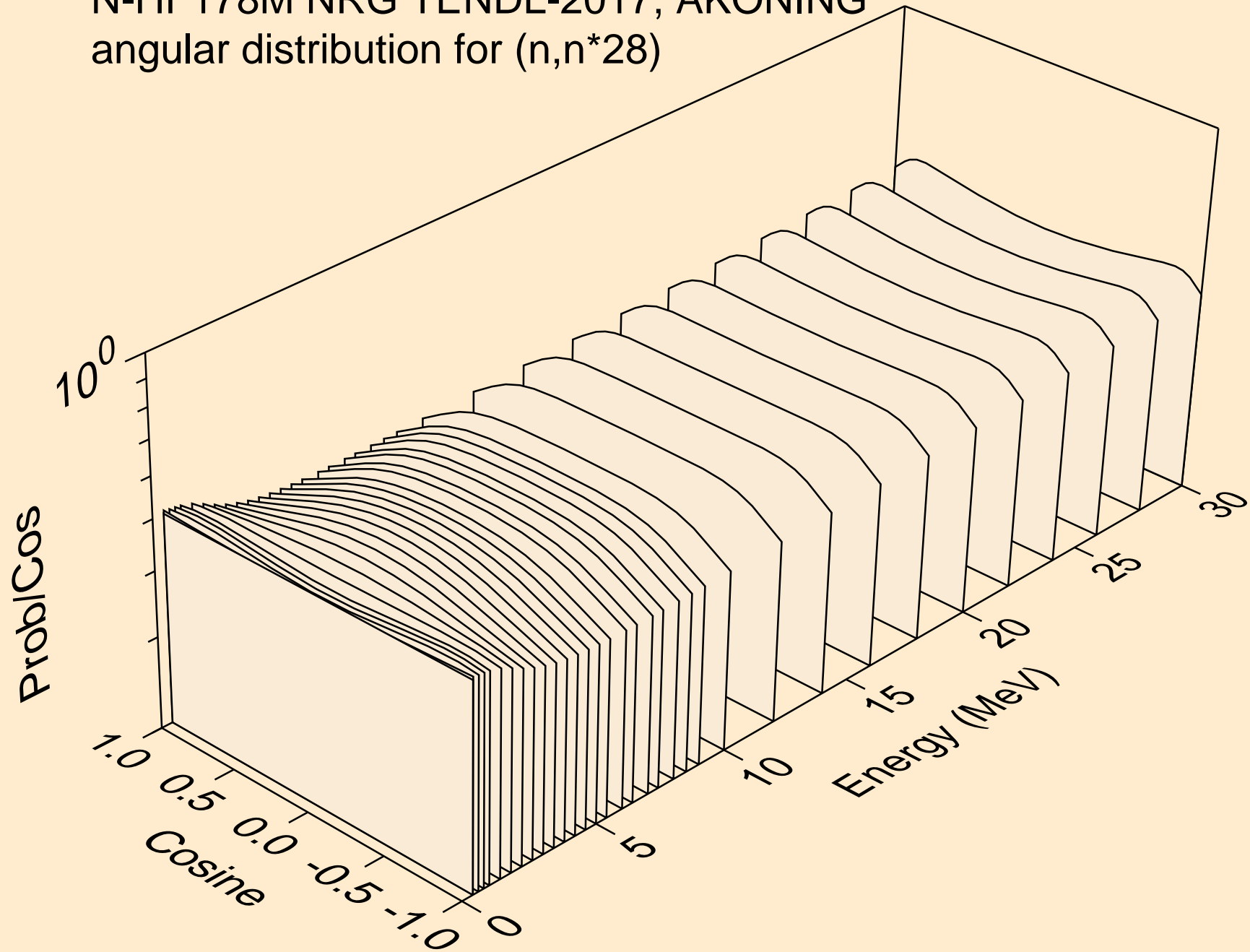
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angular distribution for (n,n\*26)



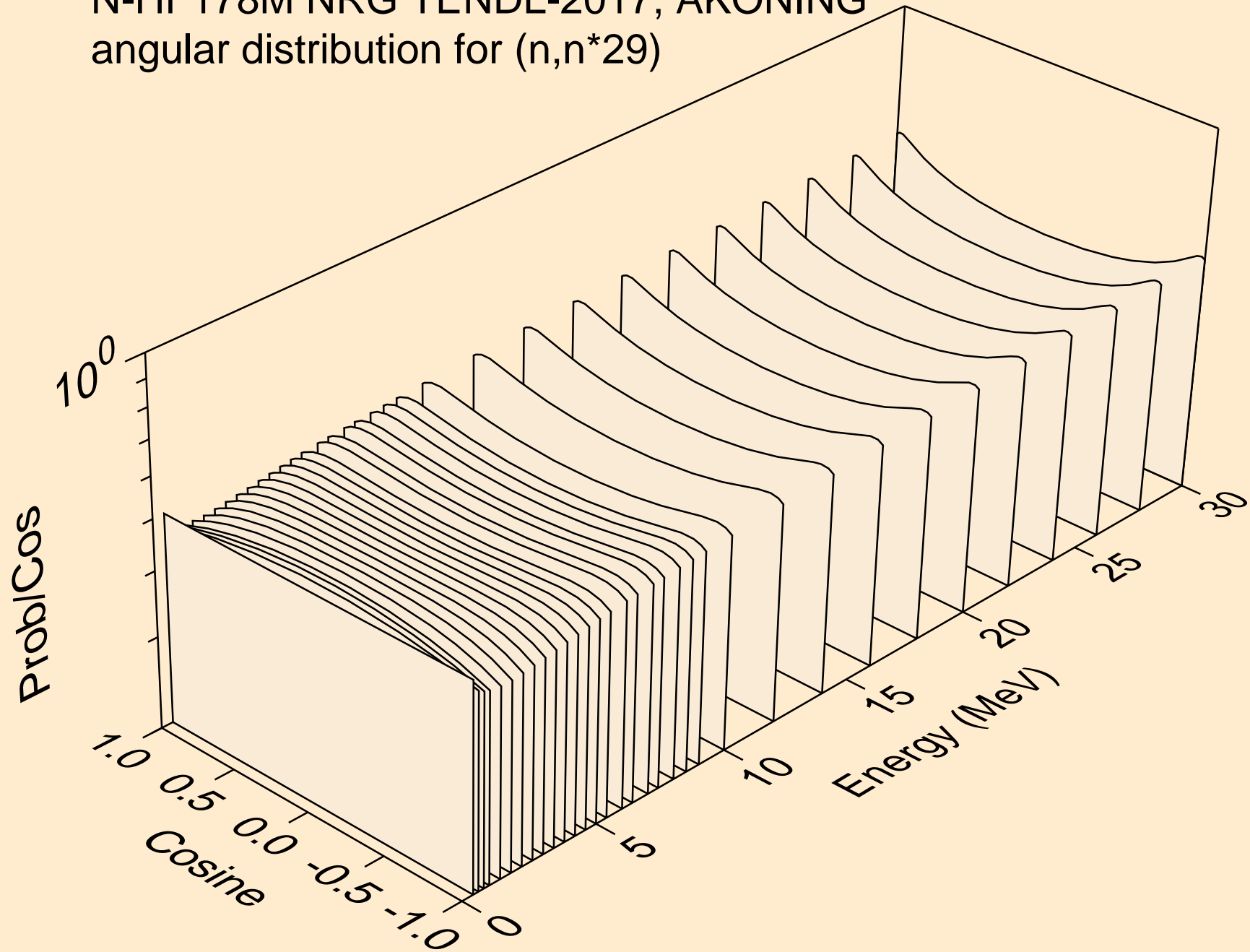
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angular distribution for (n,n\*27)



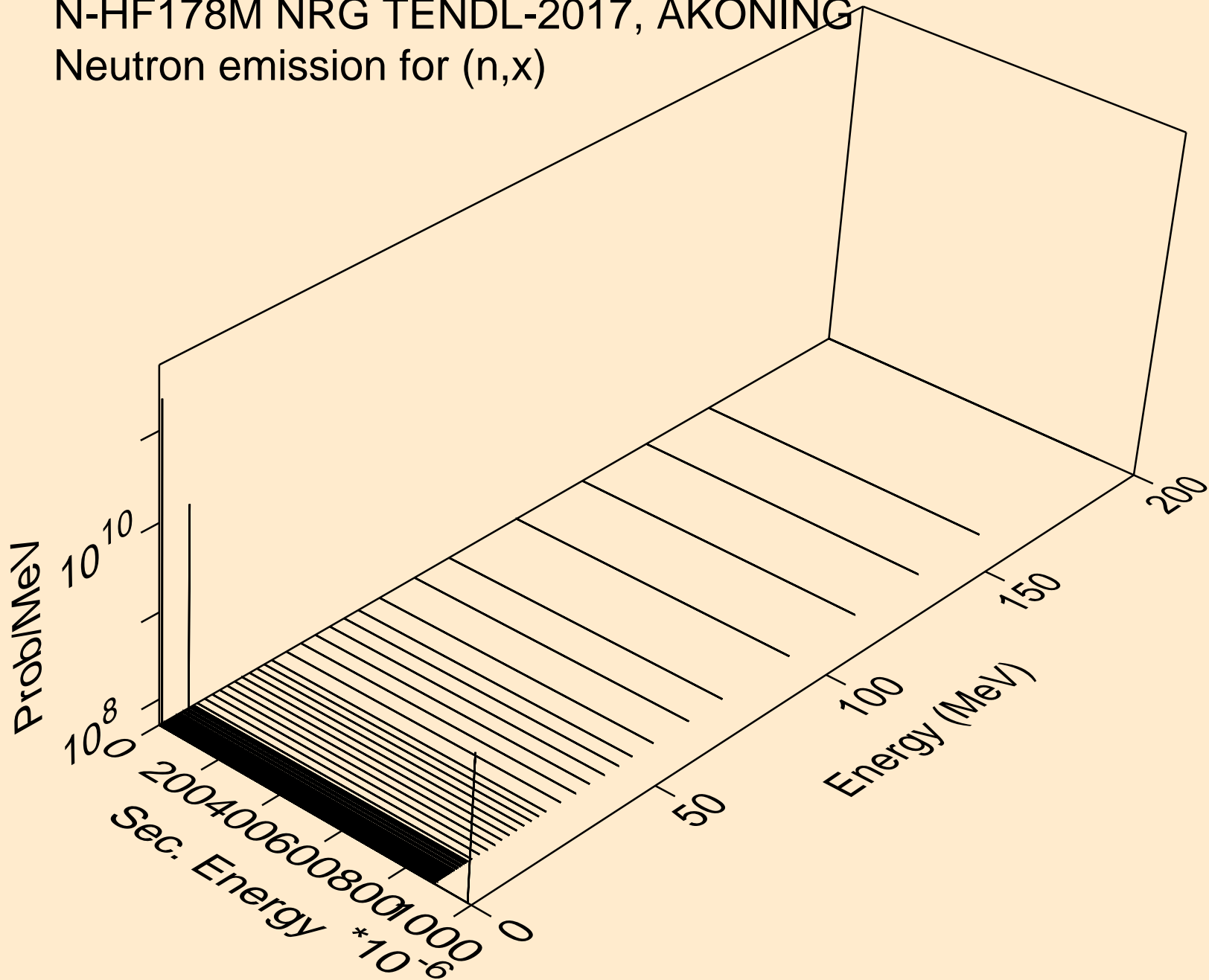
N-HF178M NRG TENDL-2017, AKONING  
angular distribution for (n,n\*28)



N-HF178M NRG TENDL-2017, AKONING  
angular distribution for (n,n\*29)

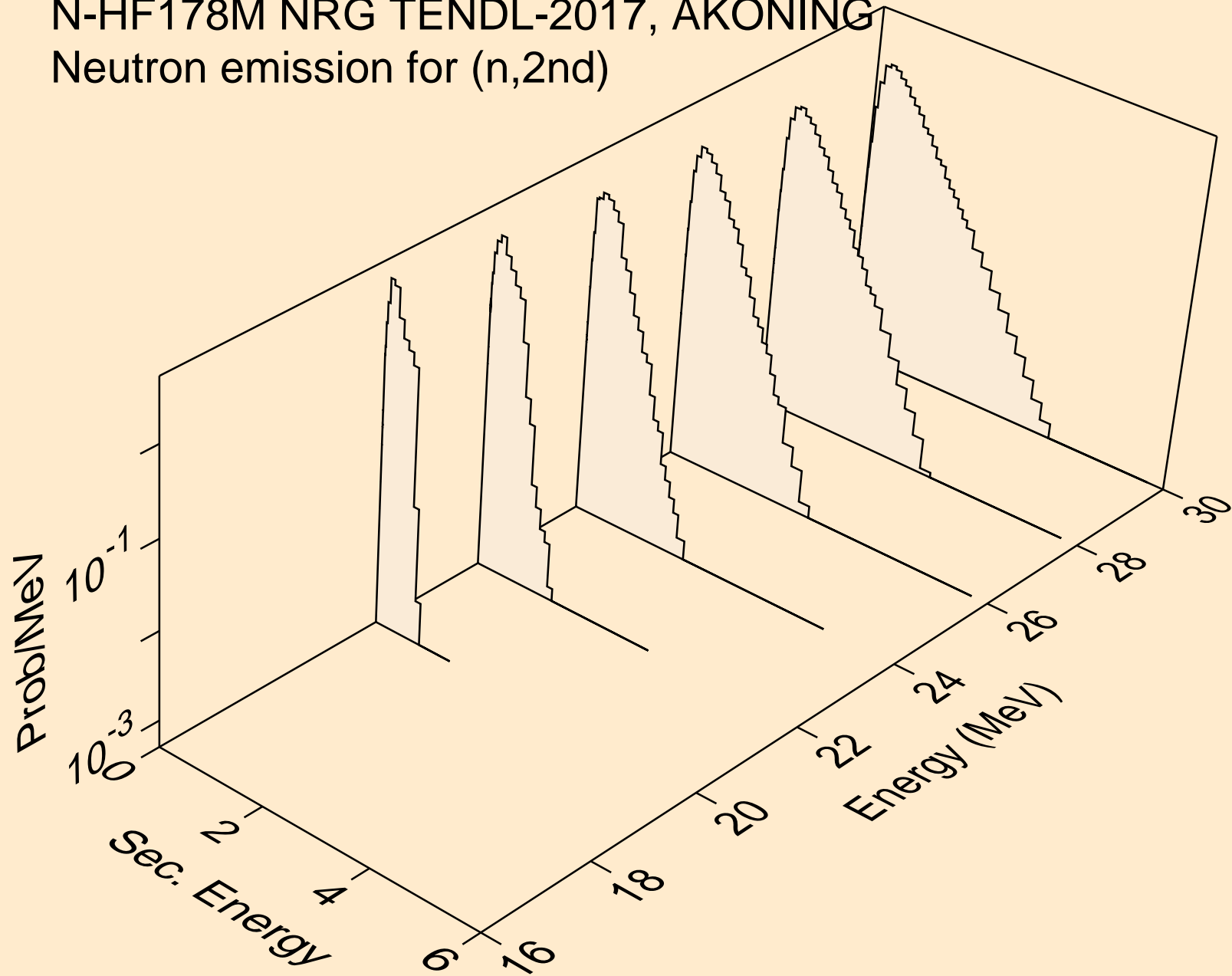


N-HF178M NRG TENDL-2017, AKONING  
Neutron emission for (n,x)

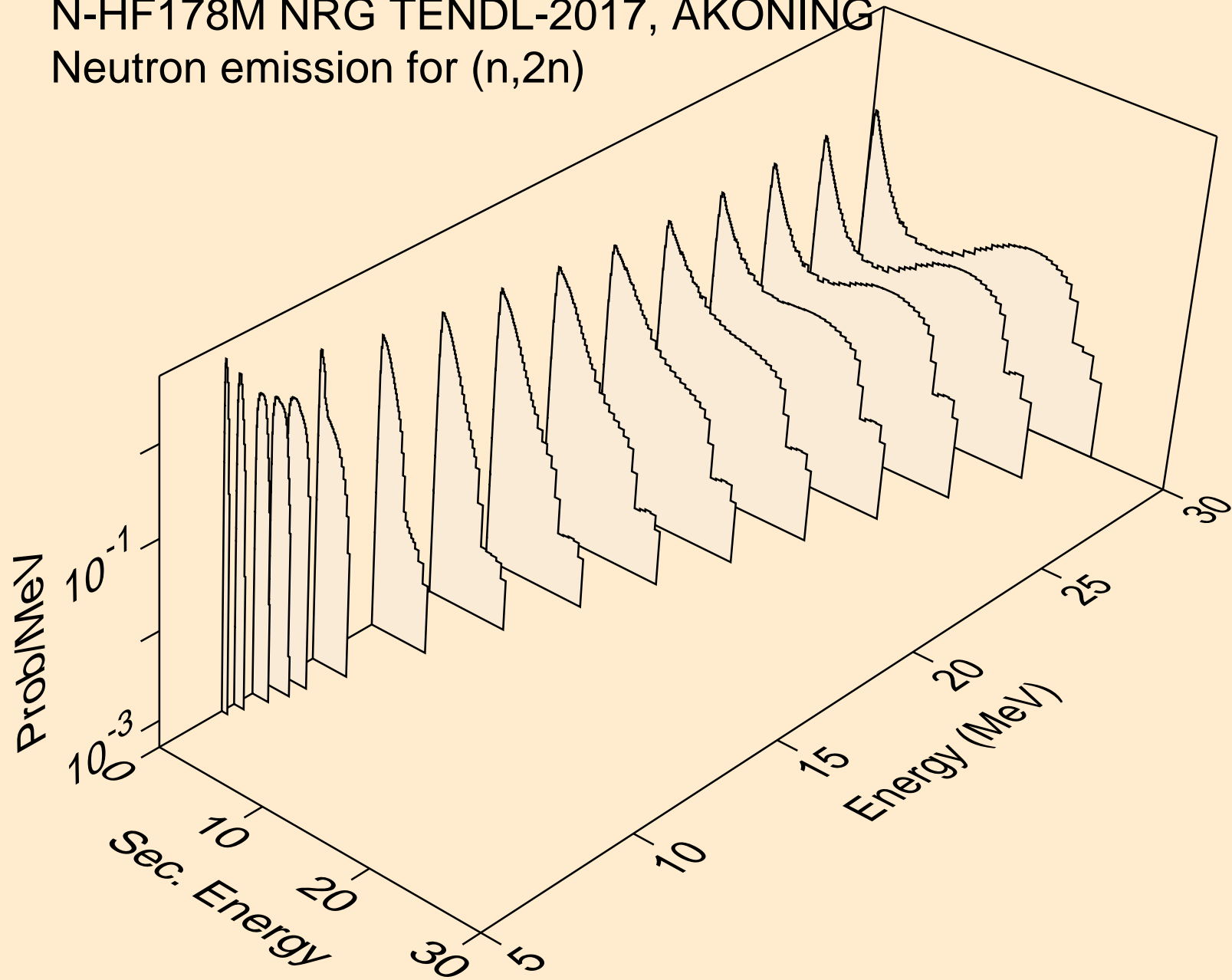




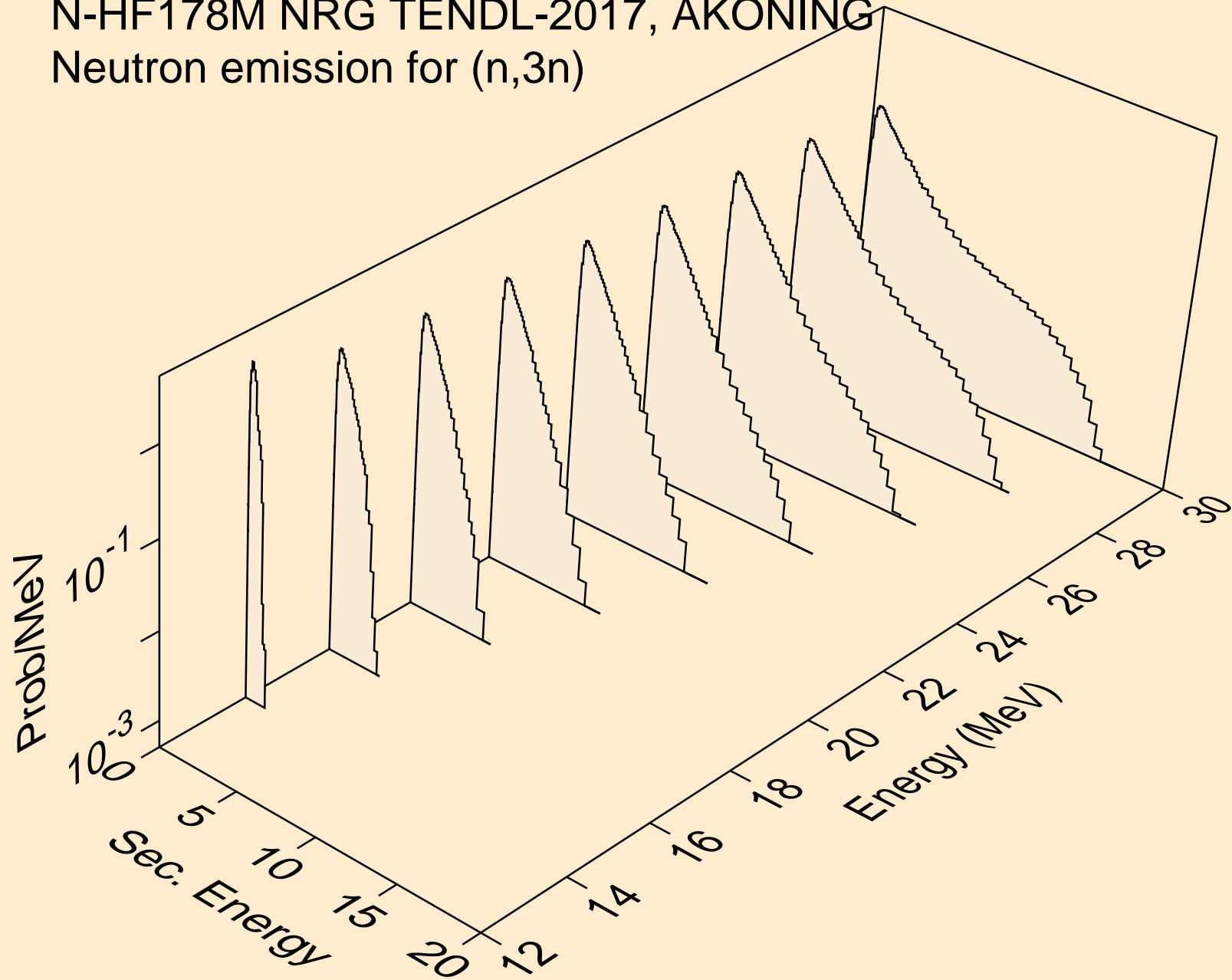
N-HF178M NRG TENDL-2017, AKONING  
Neutron emission for (n,2nd)



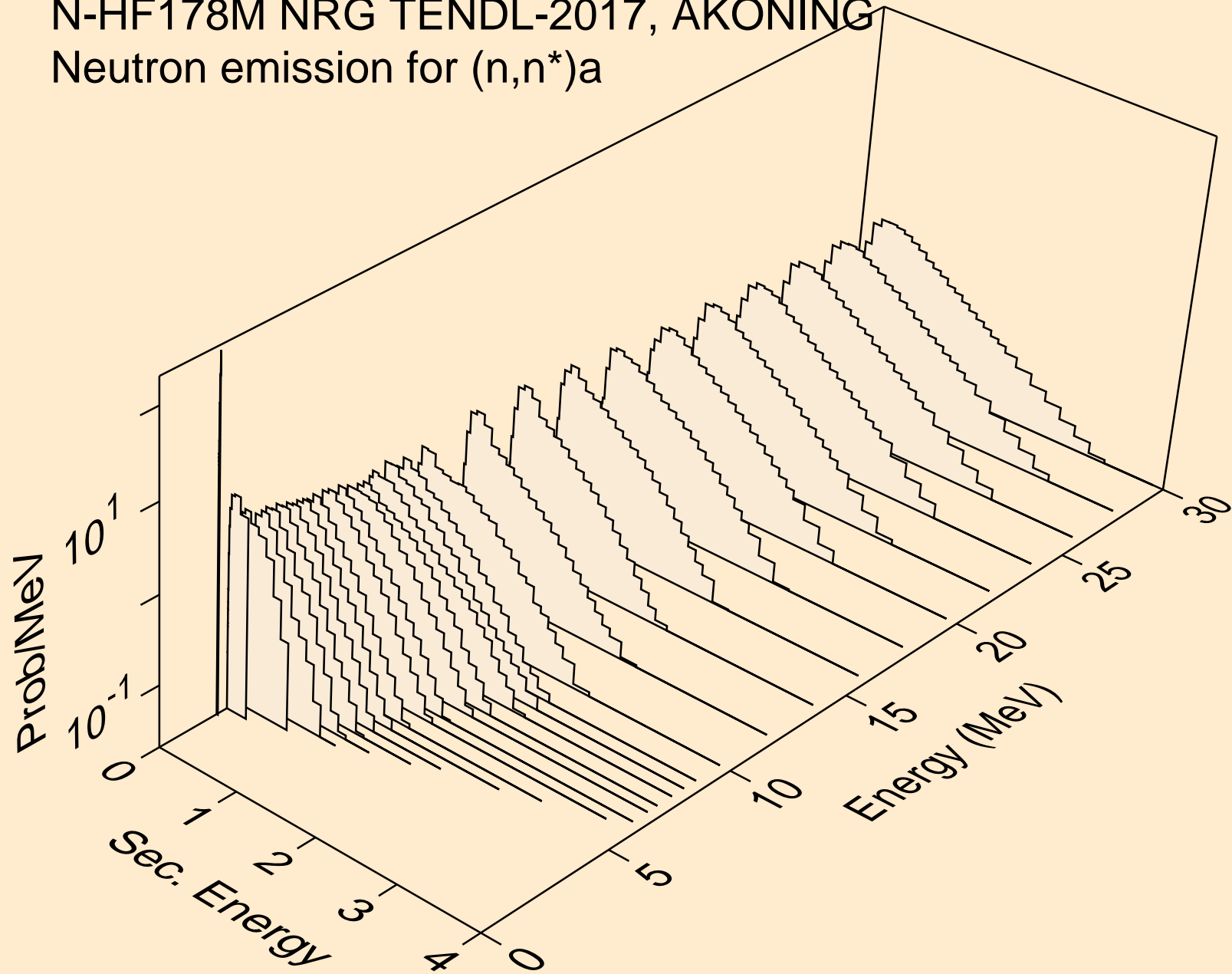
N-HF178M NRG TENDL-2017, AKONING  
Neutron emission for (n,2n)



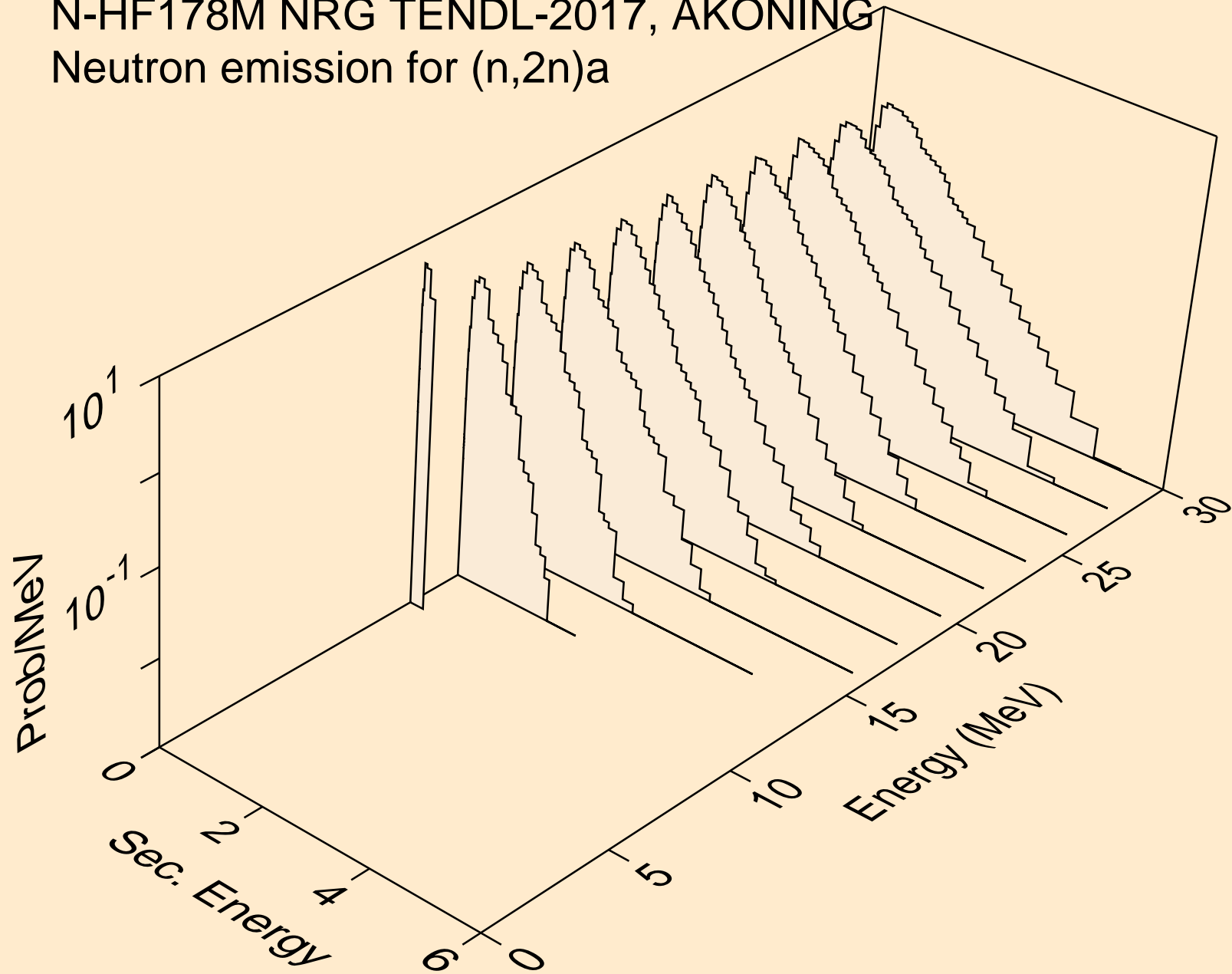
N-HF178M NRG TENDL-2017, AKONING  
Neutron emission for (n,3n)



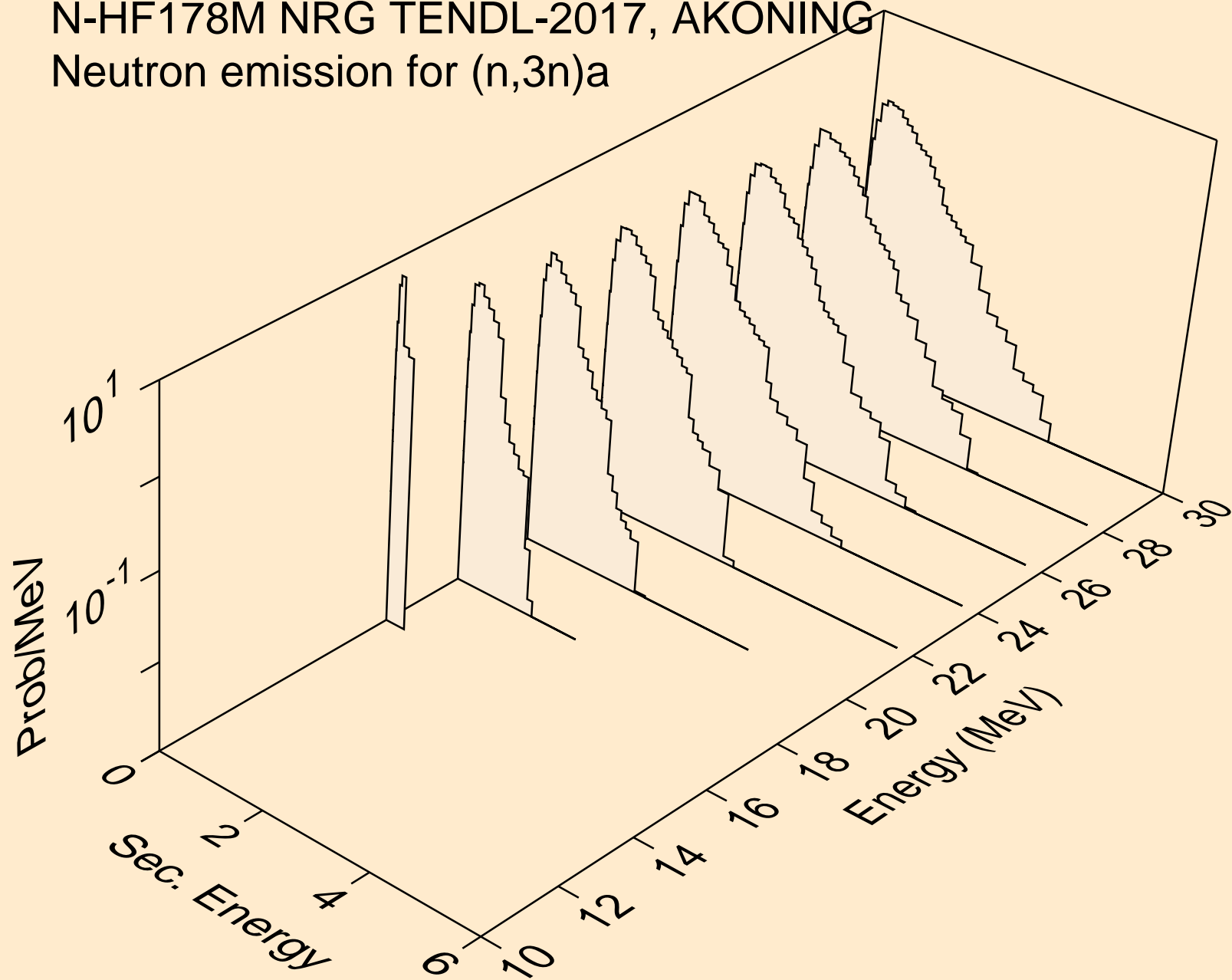
N-HF178M NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*)a



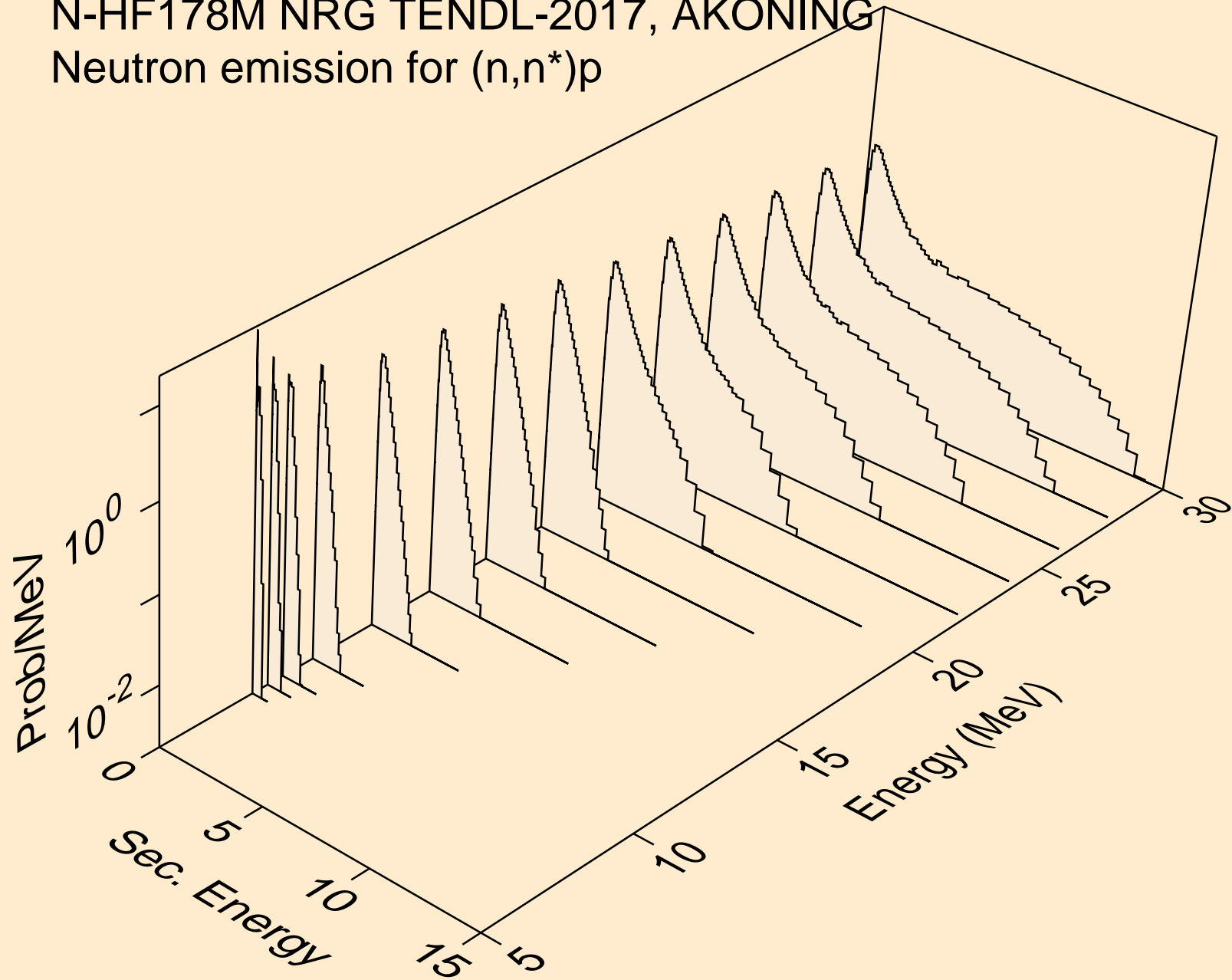
N-HF178M NRG TENDL-2017, AKONING  
Neutron emission for (n,2n)a



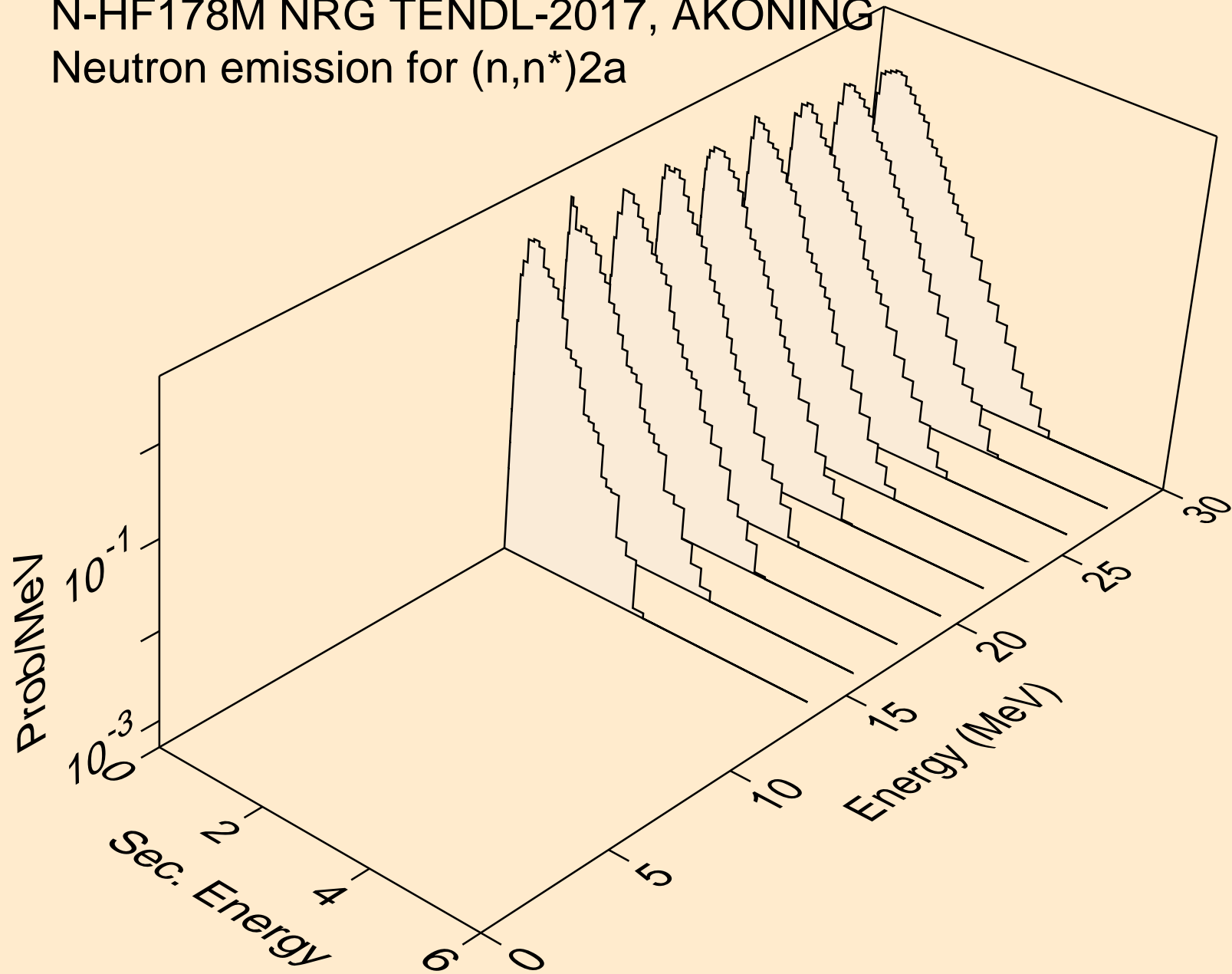
N-HF178M NRG TENDL-2017, AKONING  
Neutron emission for (n,3n)a



N-HF178M NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*)p

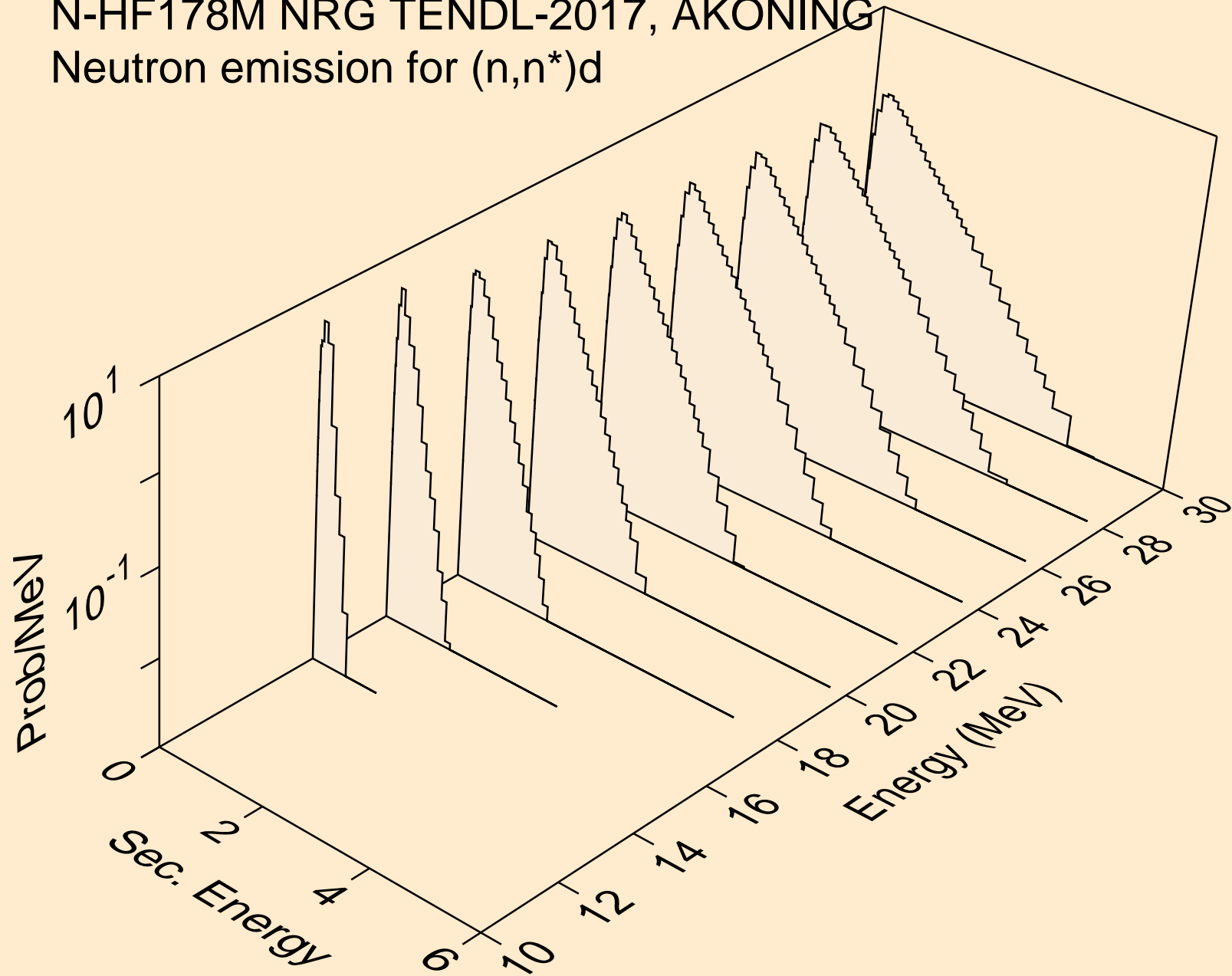


N-HF178M NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*)2a

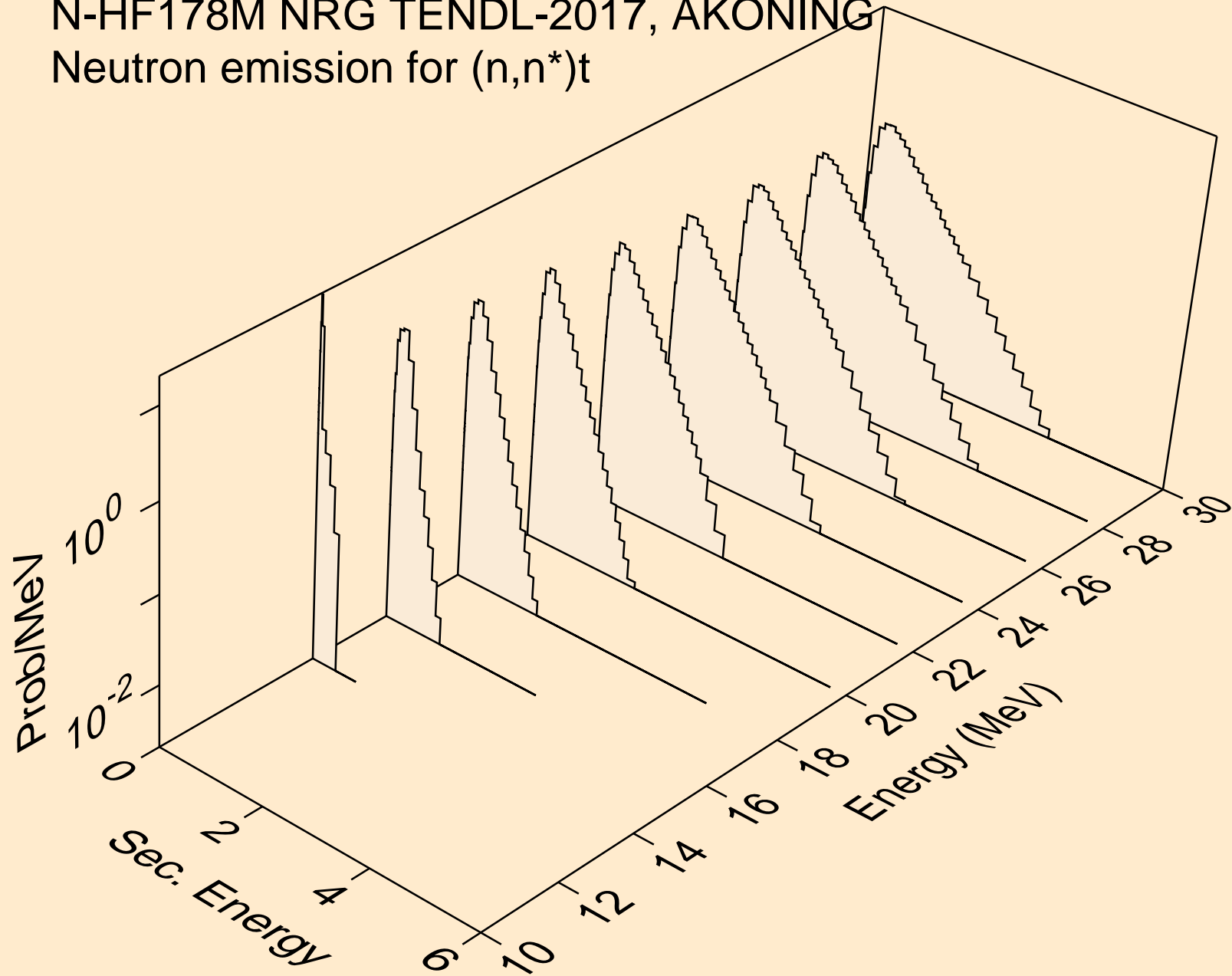




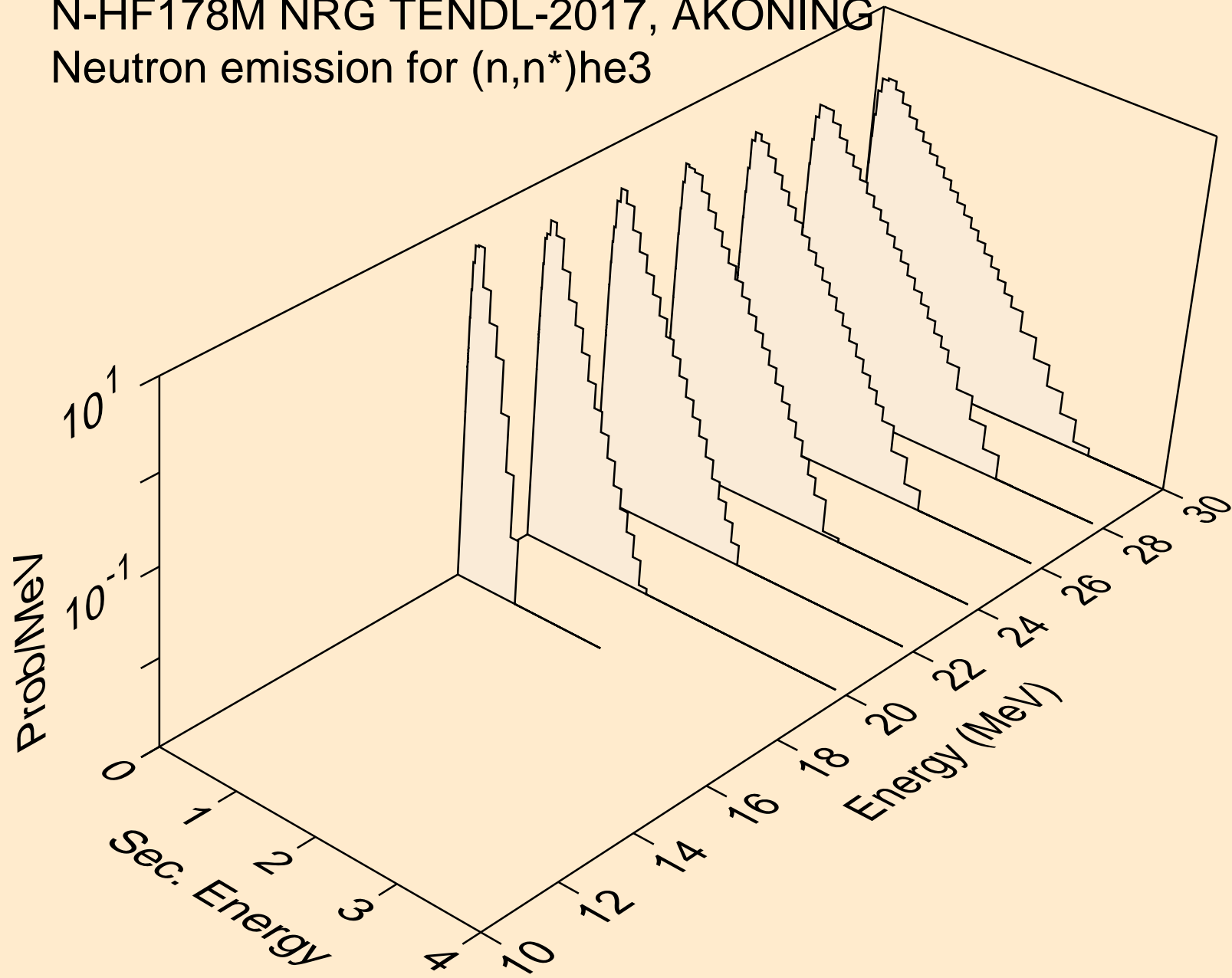
N-HF178M NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*)d



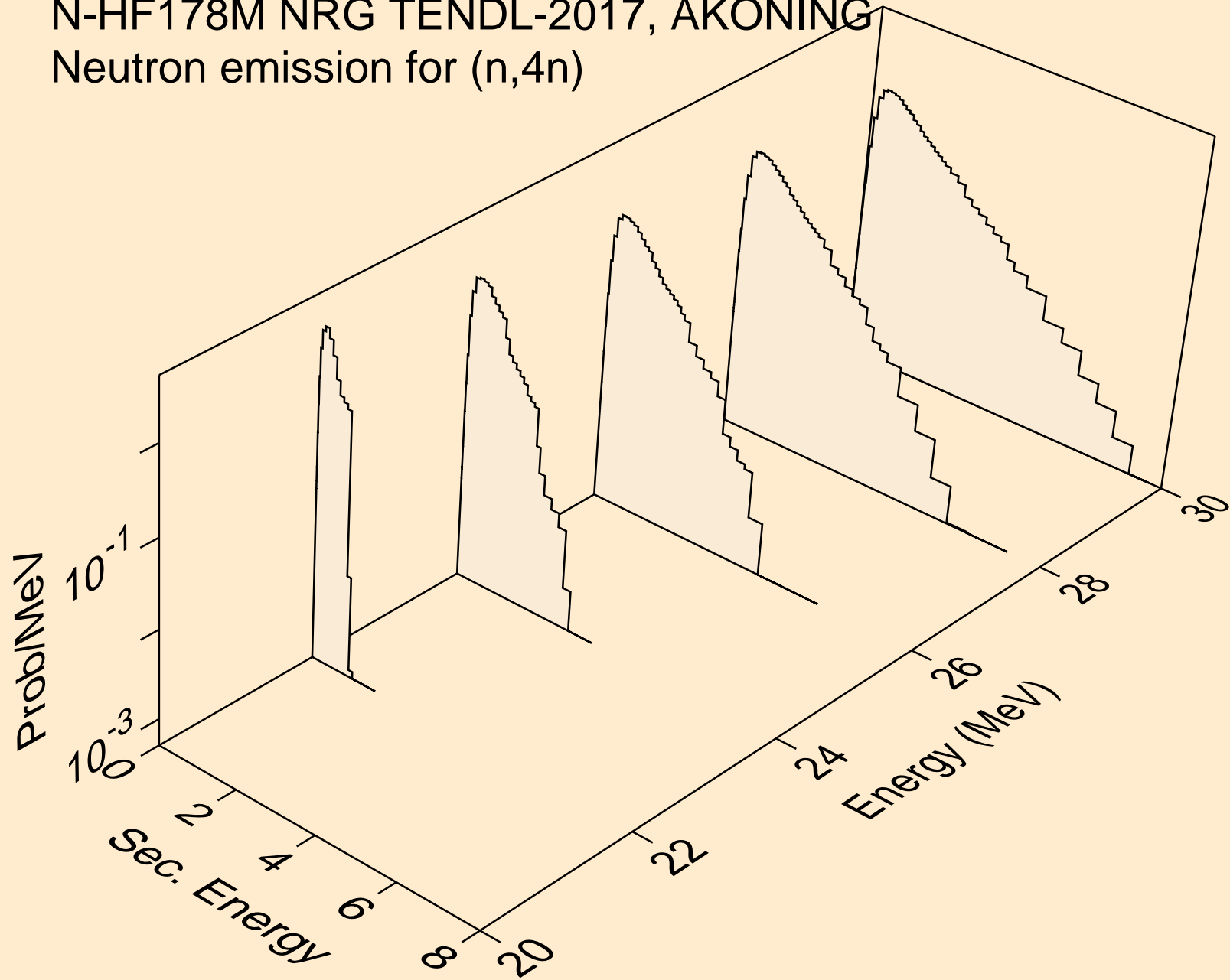
N-HF178M NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*)t



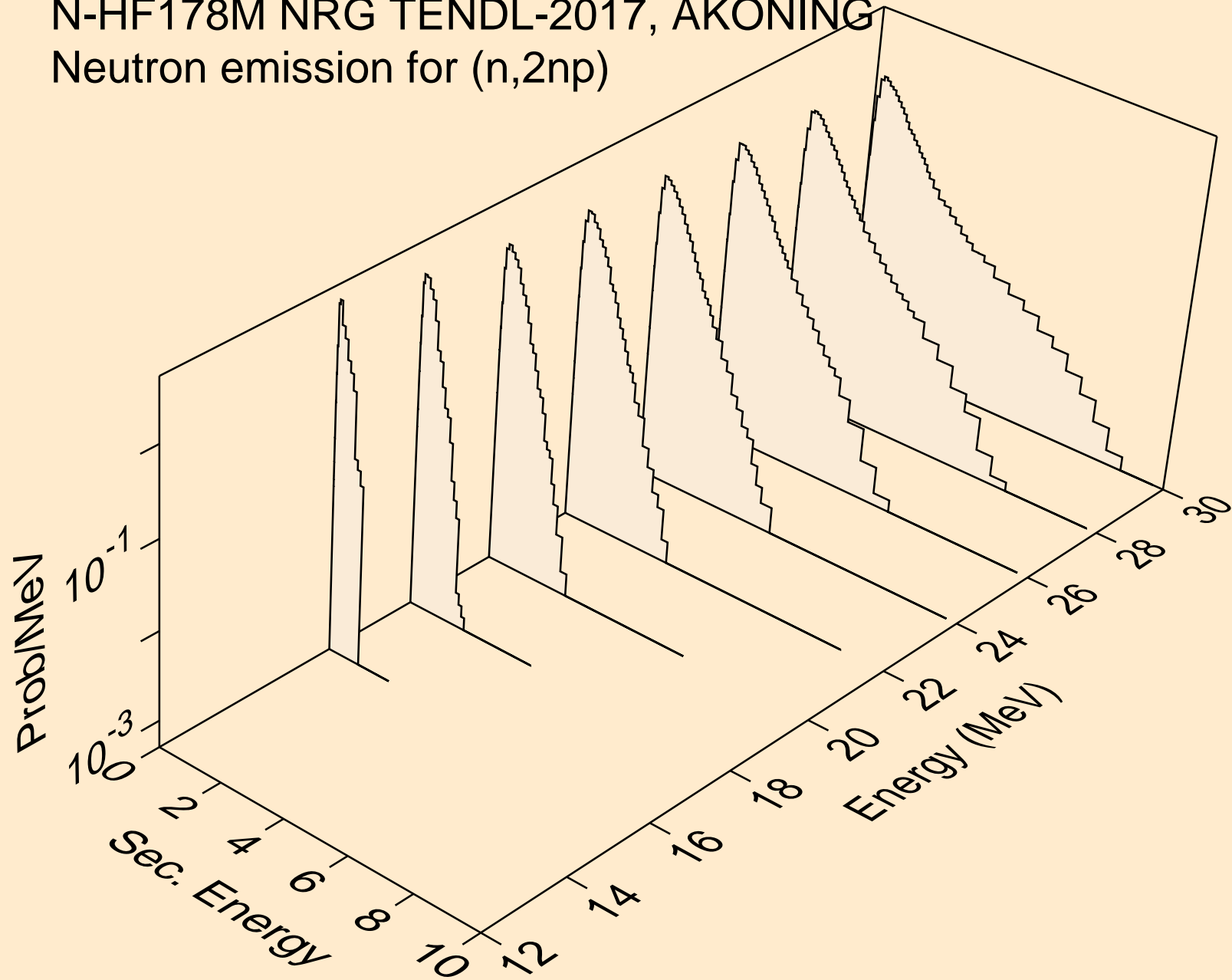
N-HF178M NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*)he3



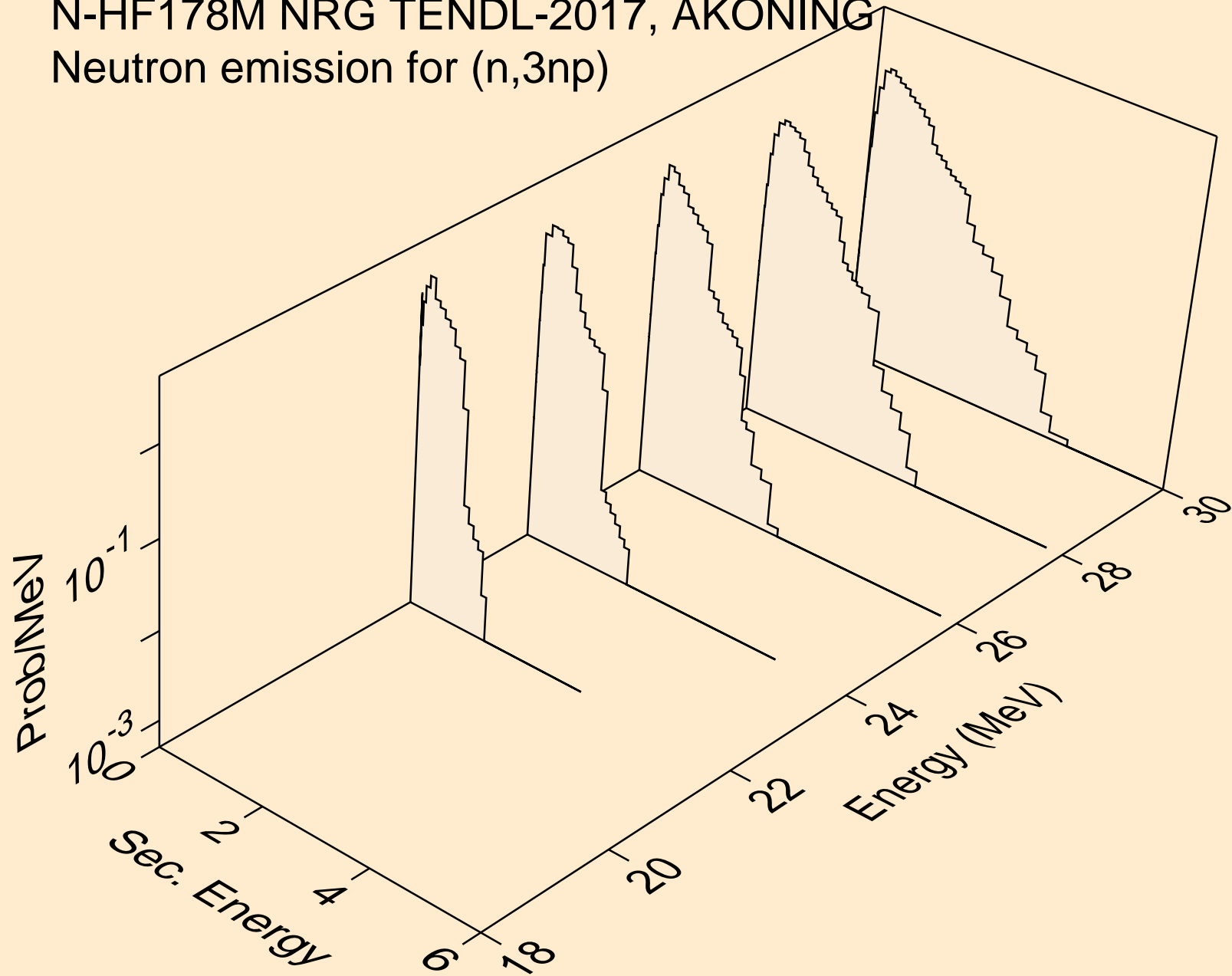
N-HF178M NRG TENDL-2017, AKONING  
Neutron emission for (n,4n)



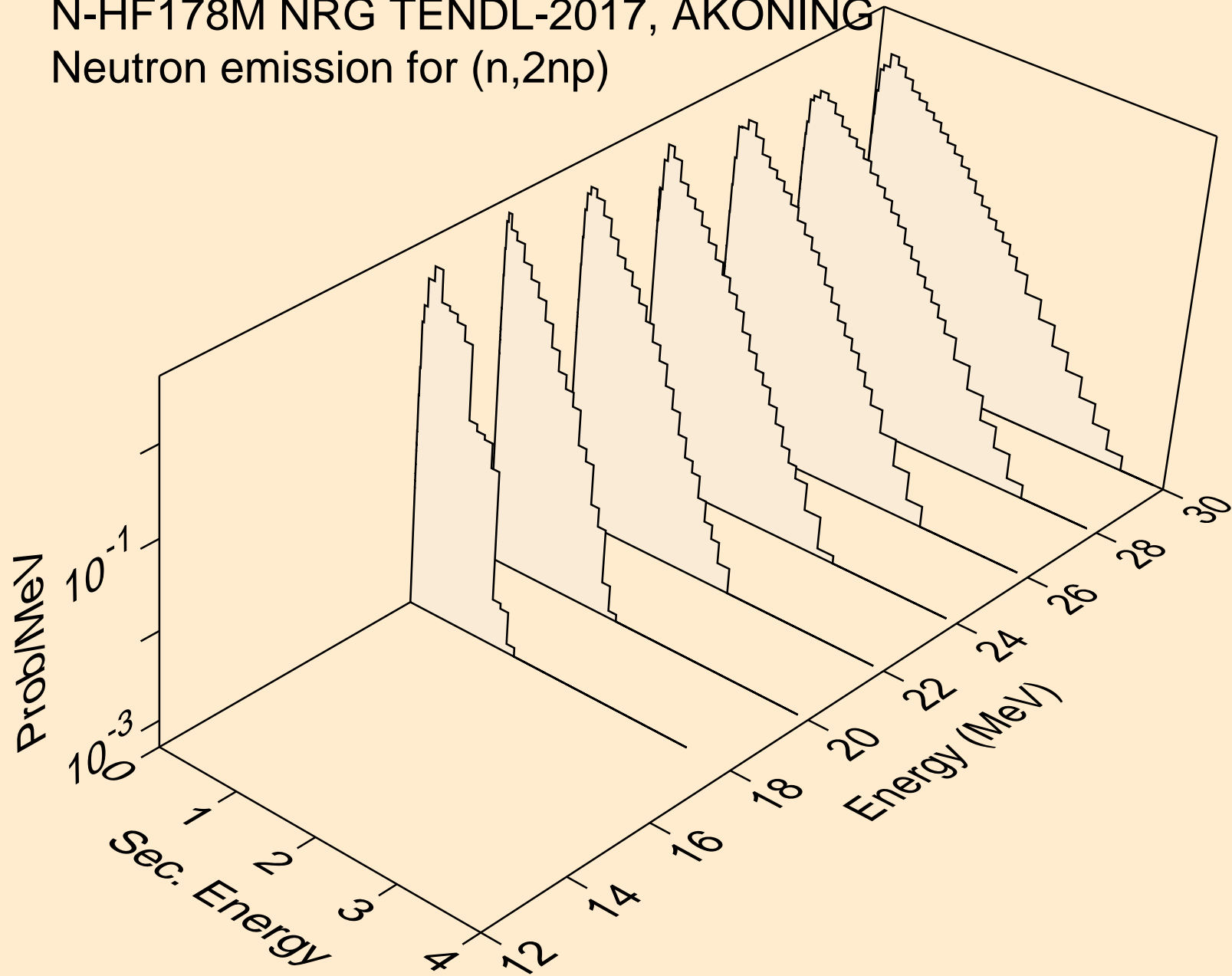
N-HF178M NRG TENDL-2017, AKONING  
Neutron emission for (n,2np)



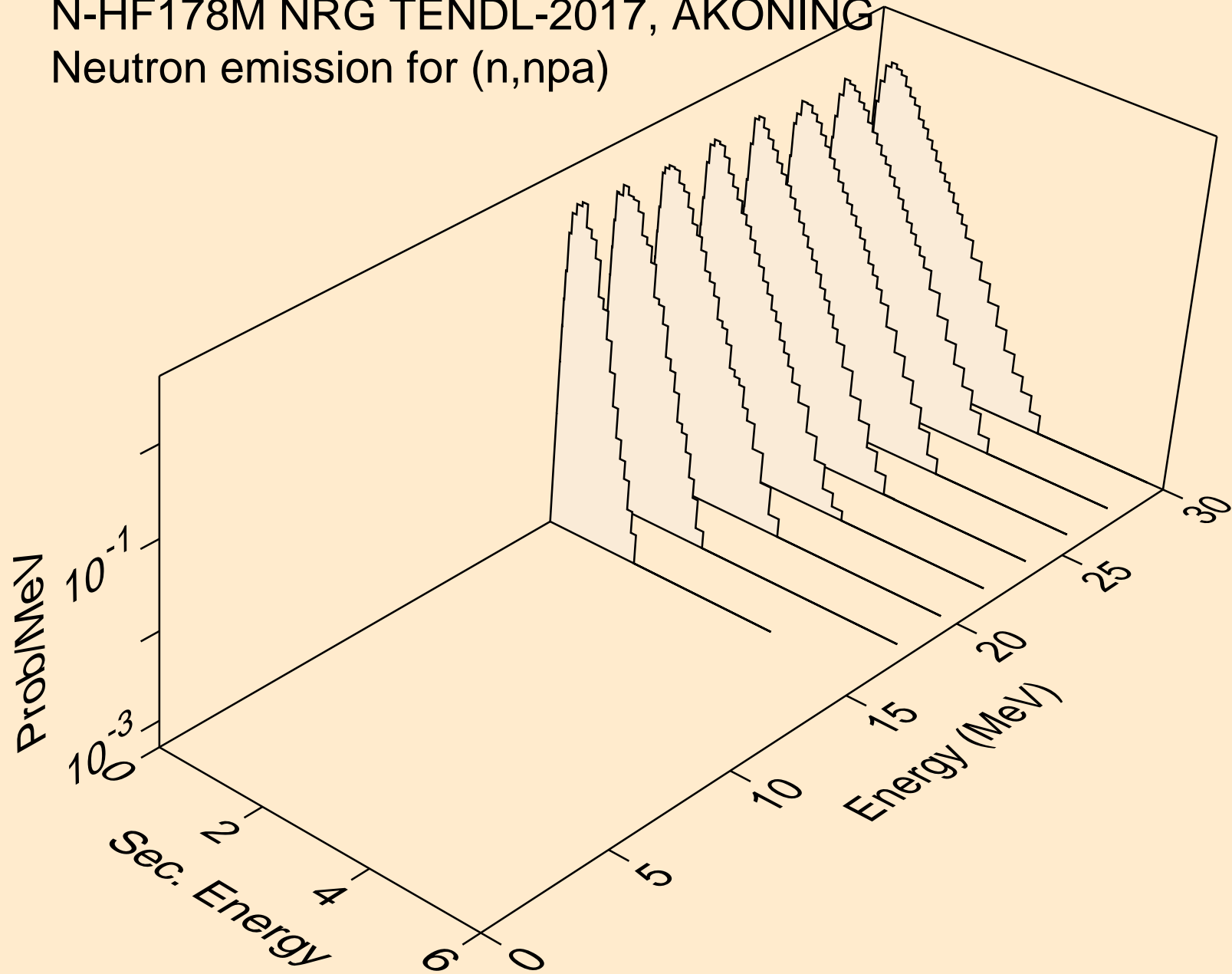
N-HF178M NRG TENDL-2017, AKONING  
Neutron emission for (n,3np)



N-HF178M NRG TENDL-2017, AKONING  
Neutron emission for (n,2np)

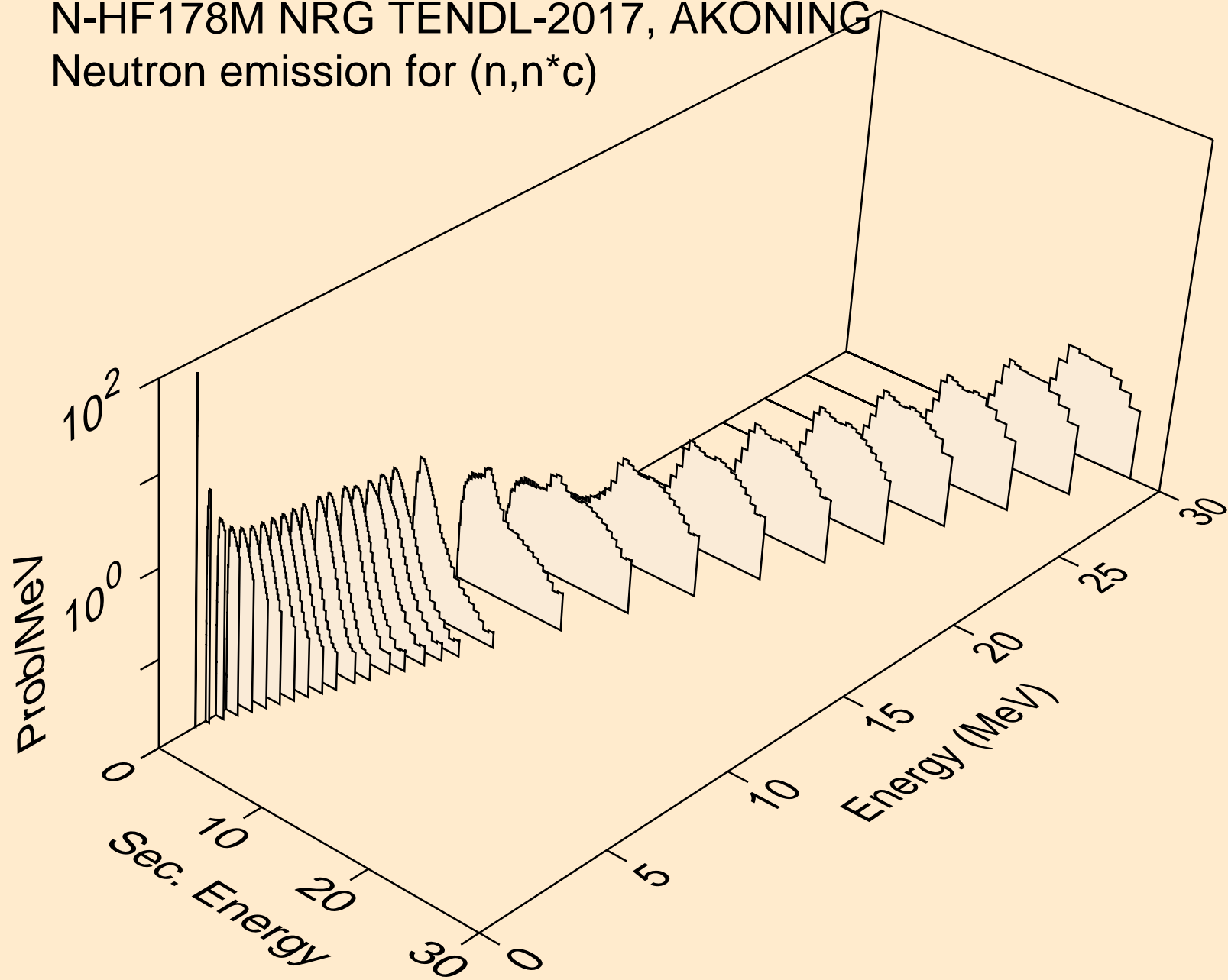


N-HF178M NRG TENDL-2017, AKONING  
Neutron emission for (n,npa)

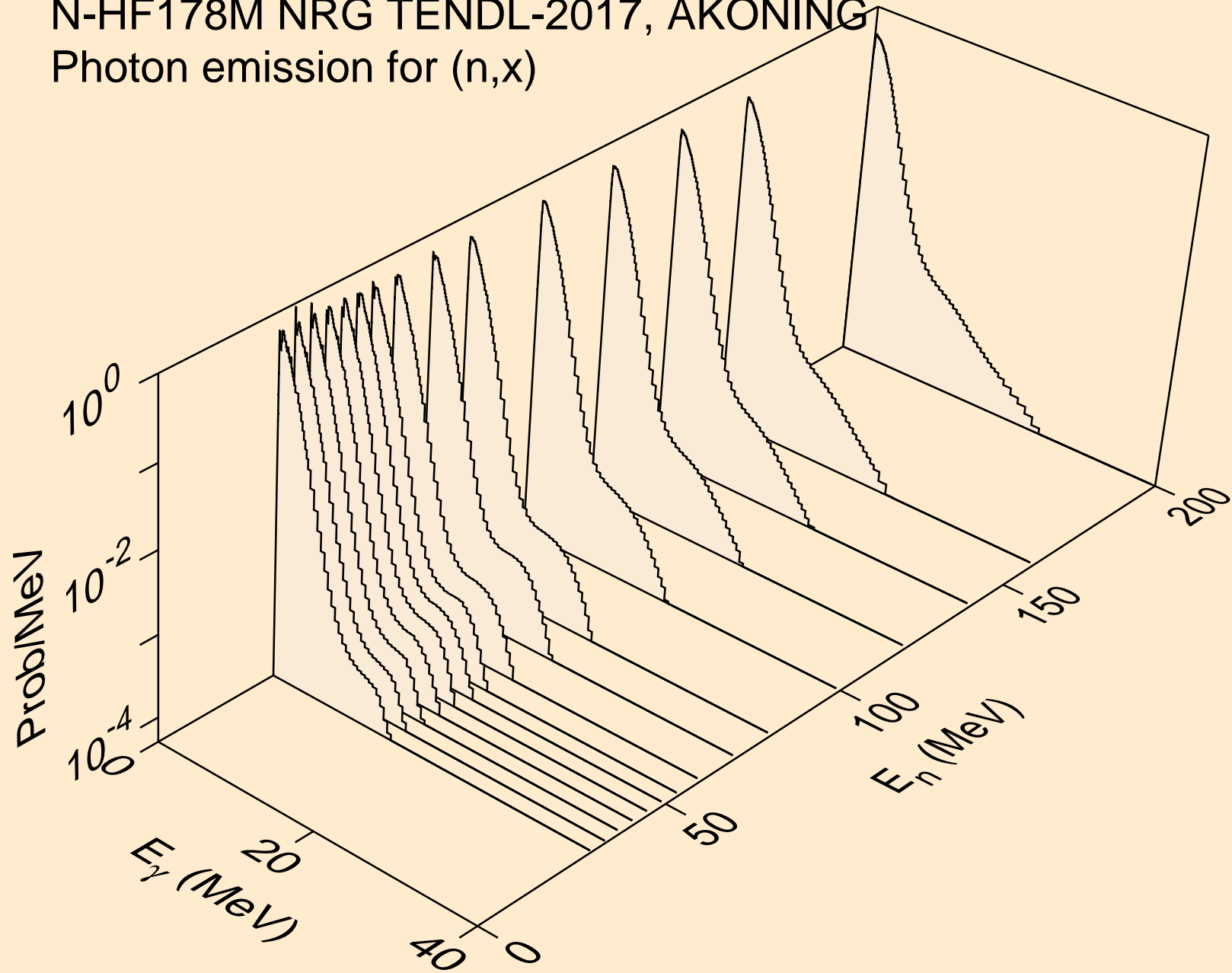




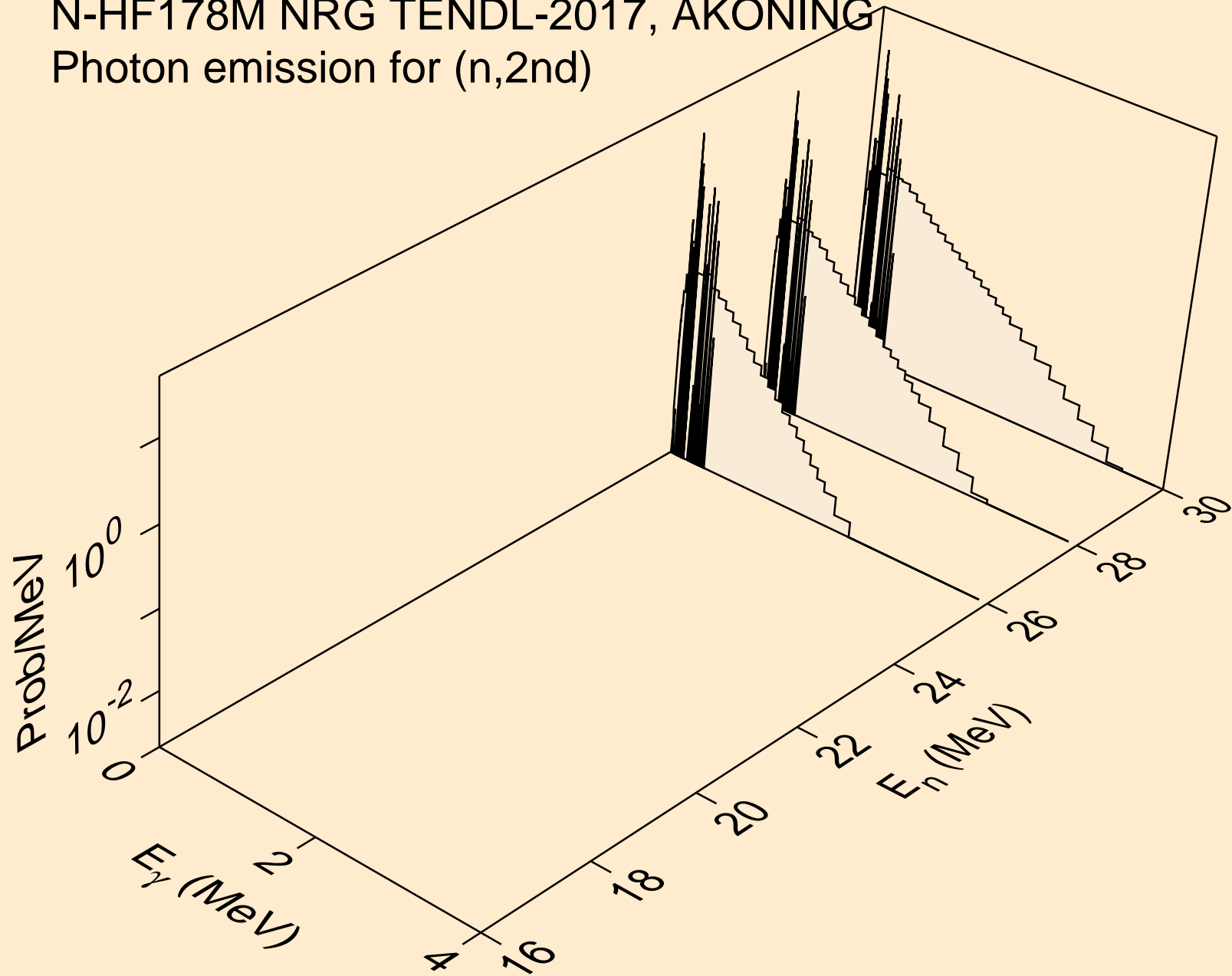
N-HF178M NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*c)



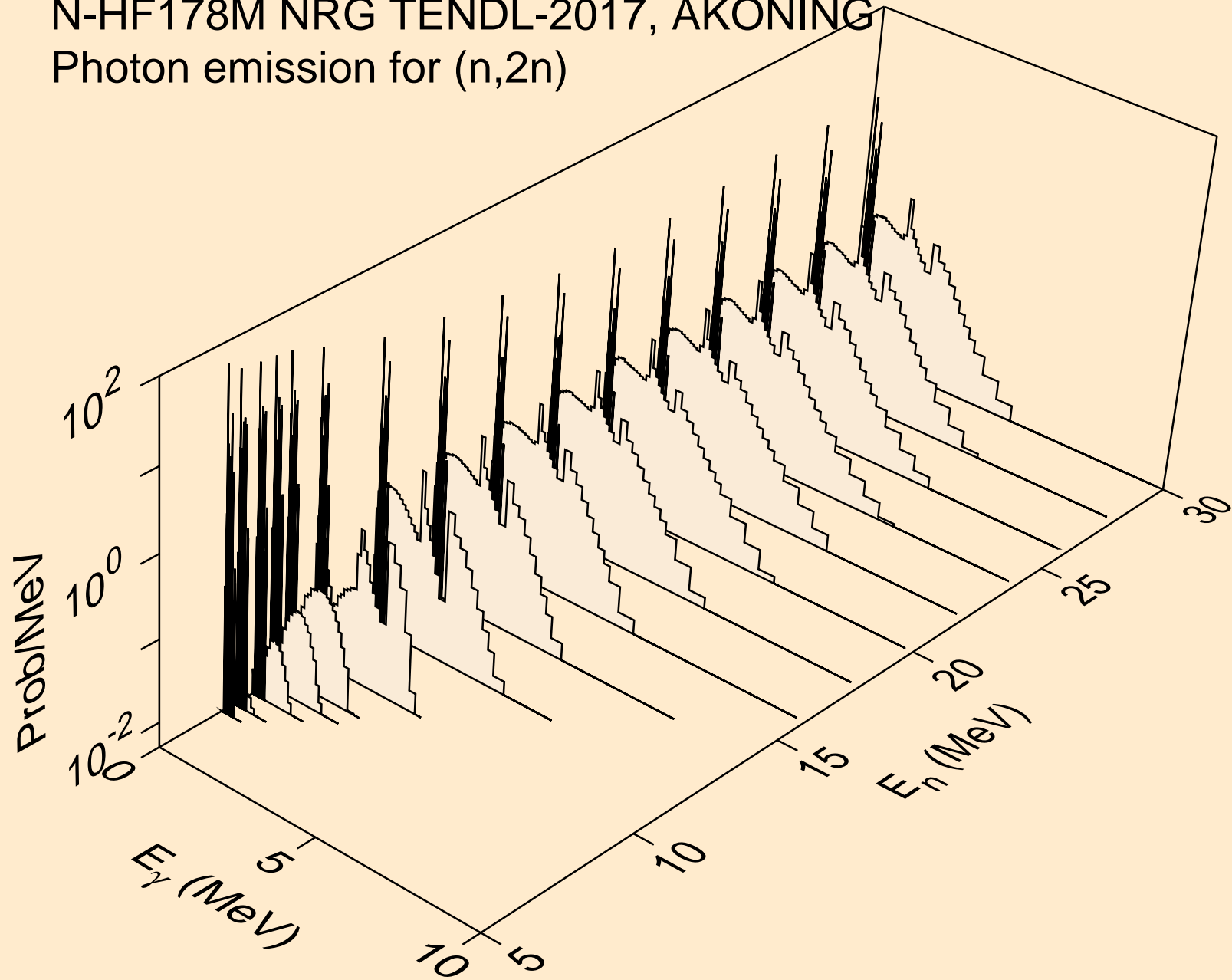
N-HF178M NRG TENDL-2017, AKONING  
Photon emission for (n,x)



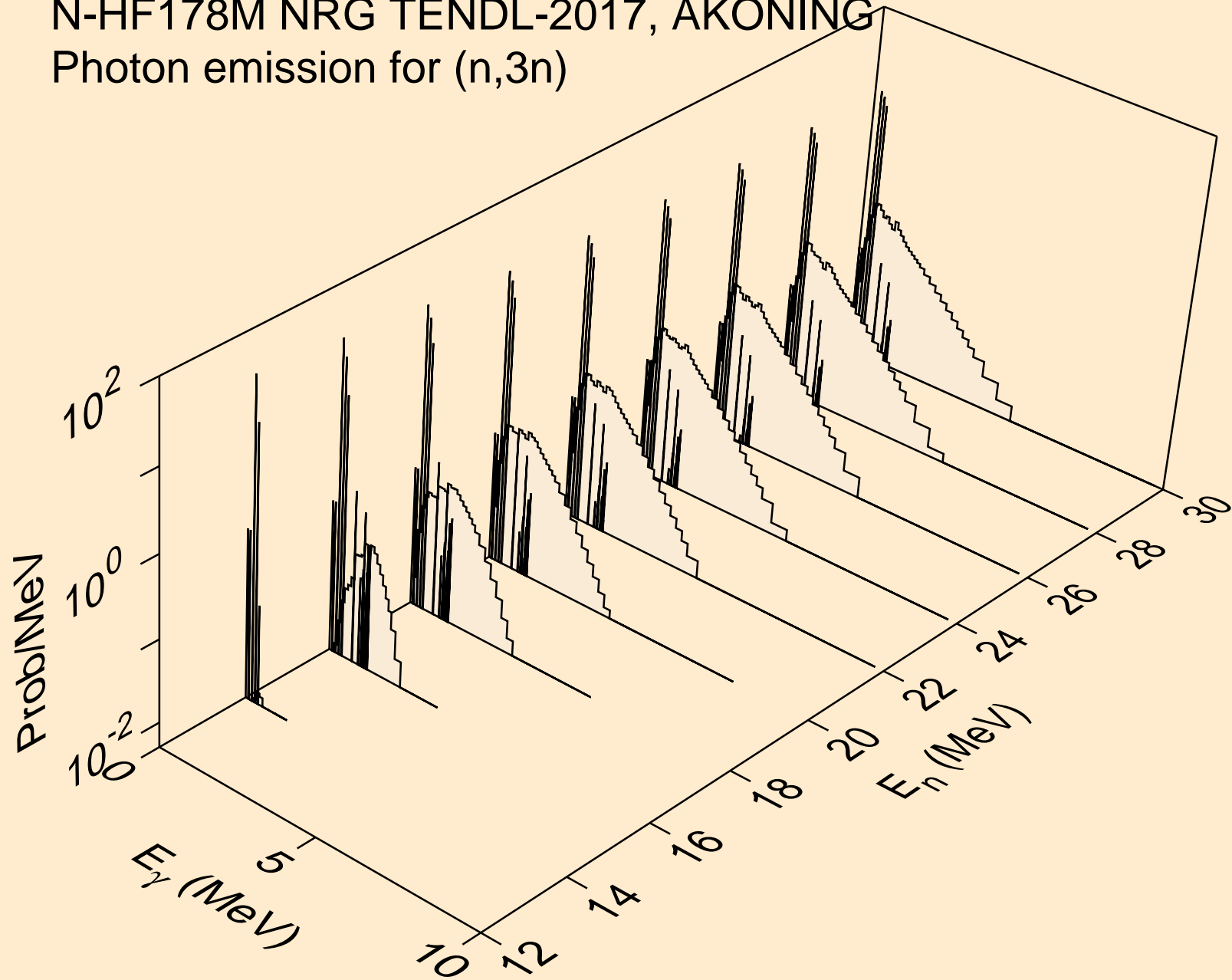
N-HF178M NRG TENDL-2017, AKONING  
Photon emission for (n,2nd)



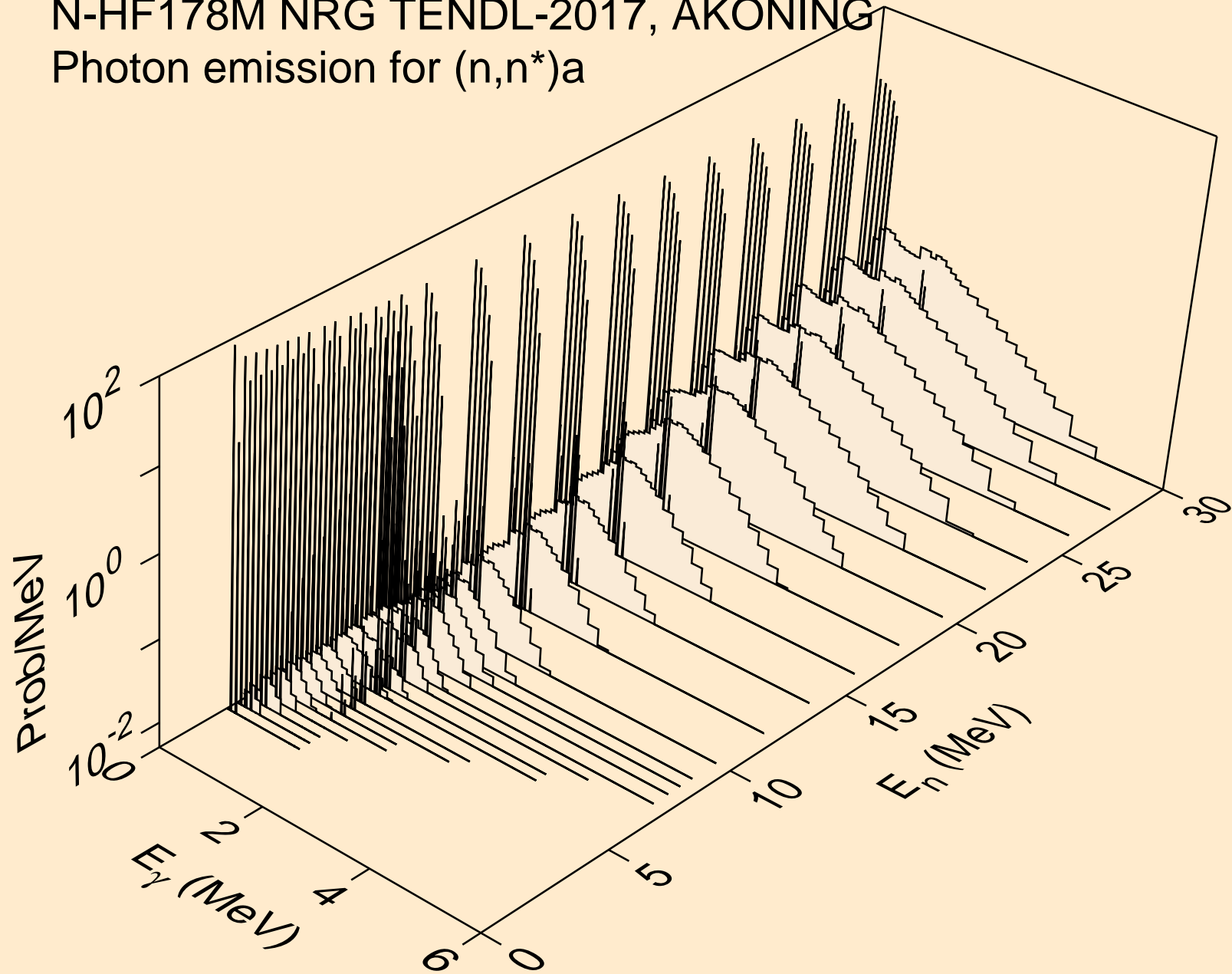
N-HF178M NRG TENDL-2017, AKONING  
Photon emission for (n,2n)



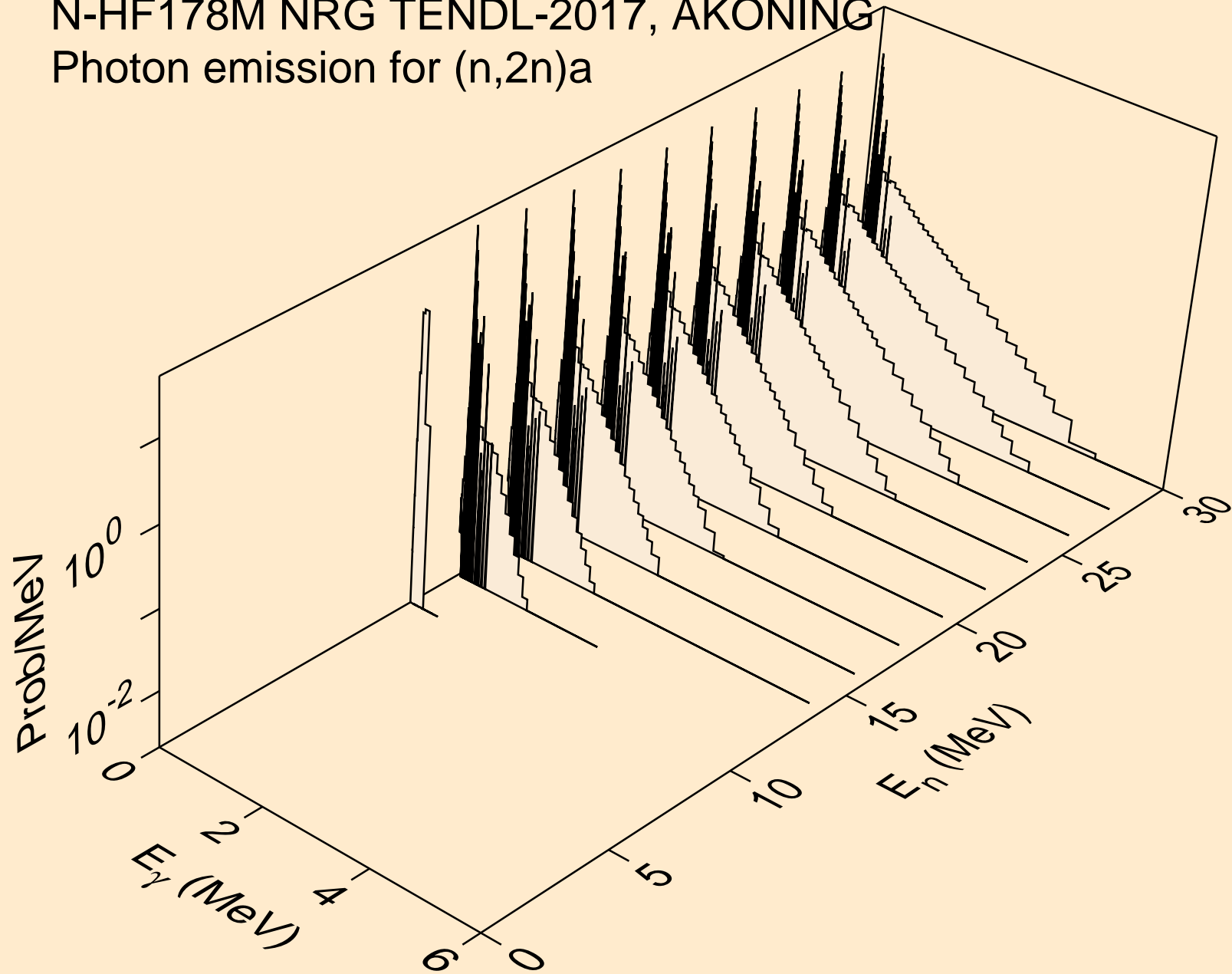
N-HF178M NRG TENDL-2017, AKONING  
Photon emission for (n,3n)



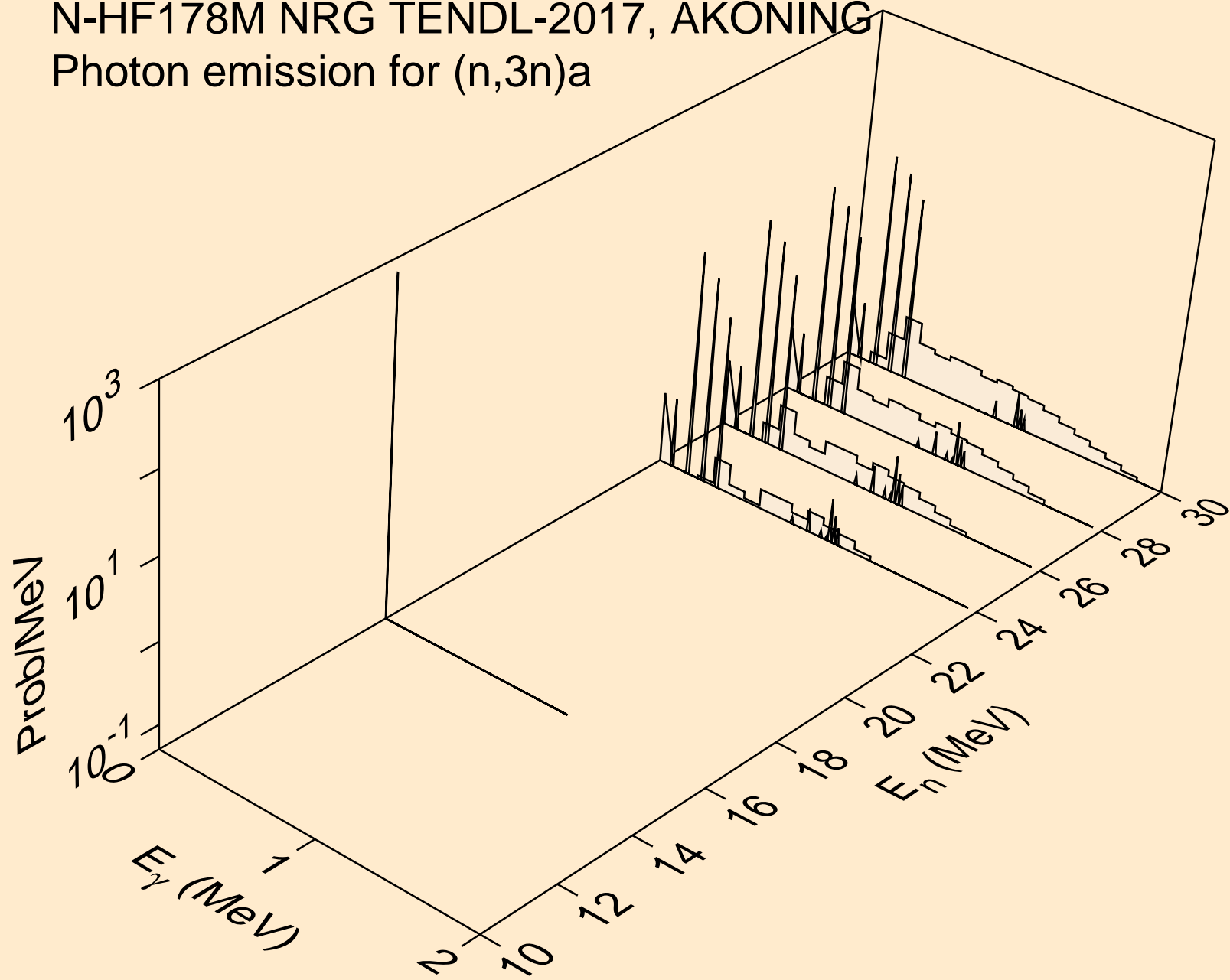
N-HF178M NRG TENDL-2017, AKONING  
Photon emission for (n,n\*)a



N-HF178M NRG TENDL-2017, AKONING  
Photon emission for (n,2n)a

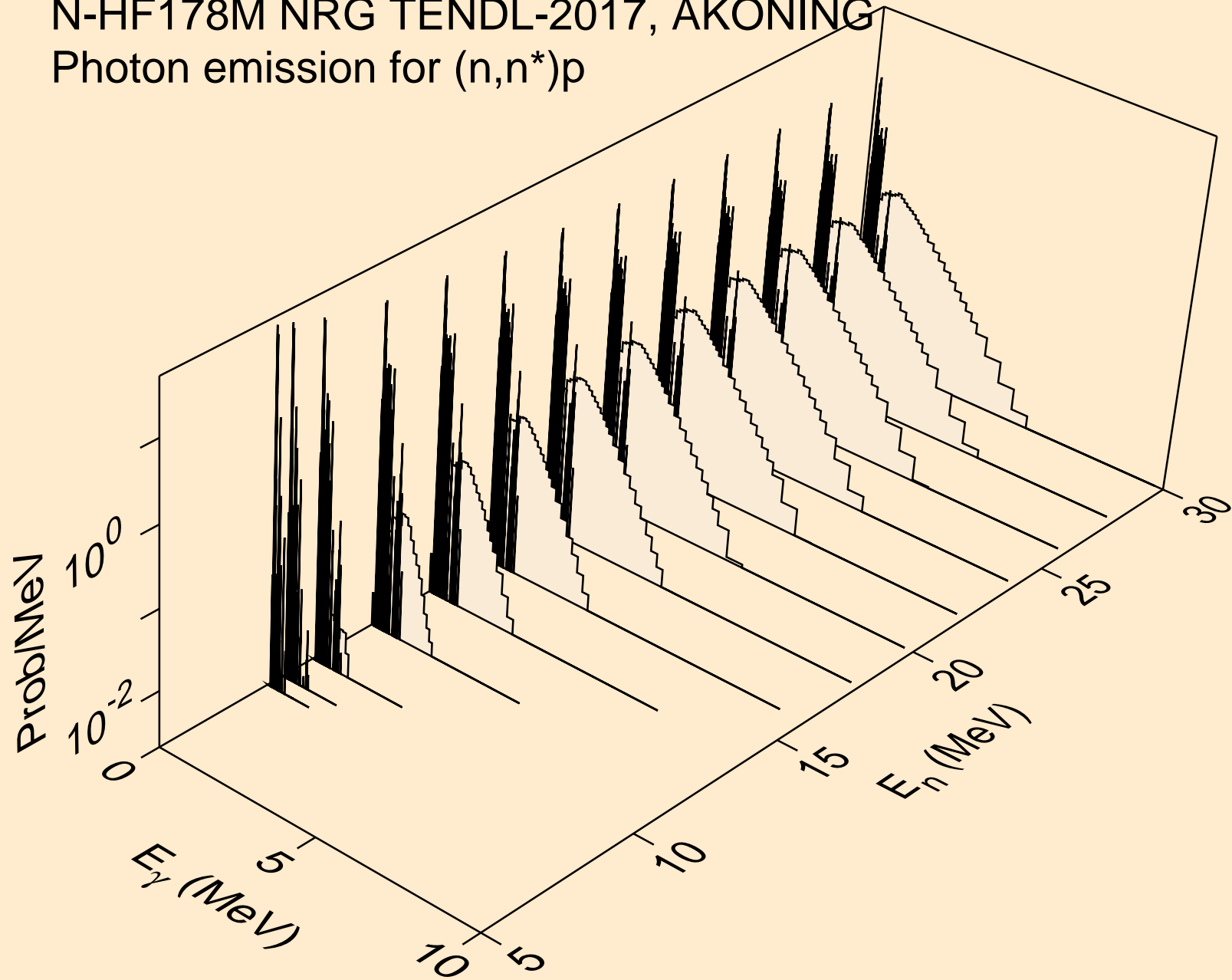


N-HF178M NRG TENDL-2017, AKONING  
Photon emission for (n,3n)a

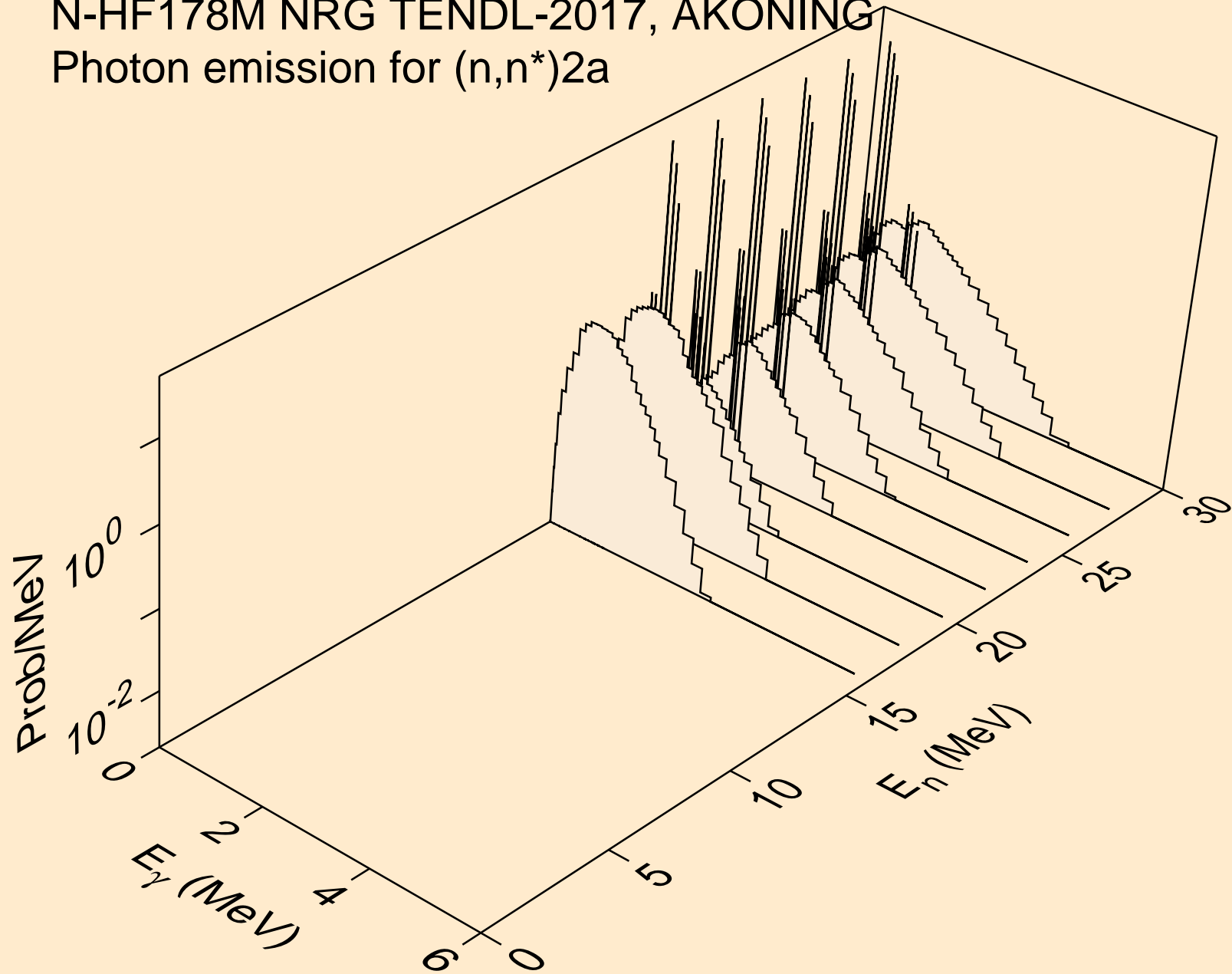




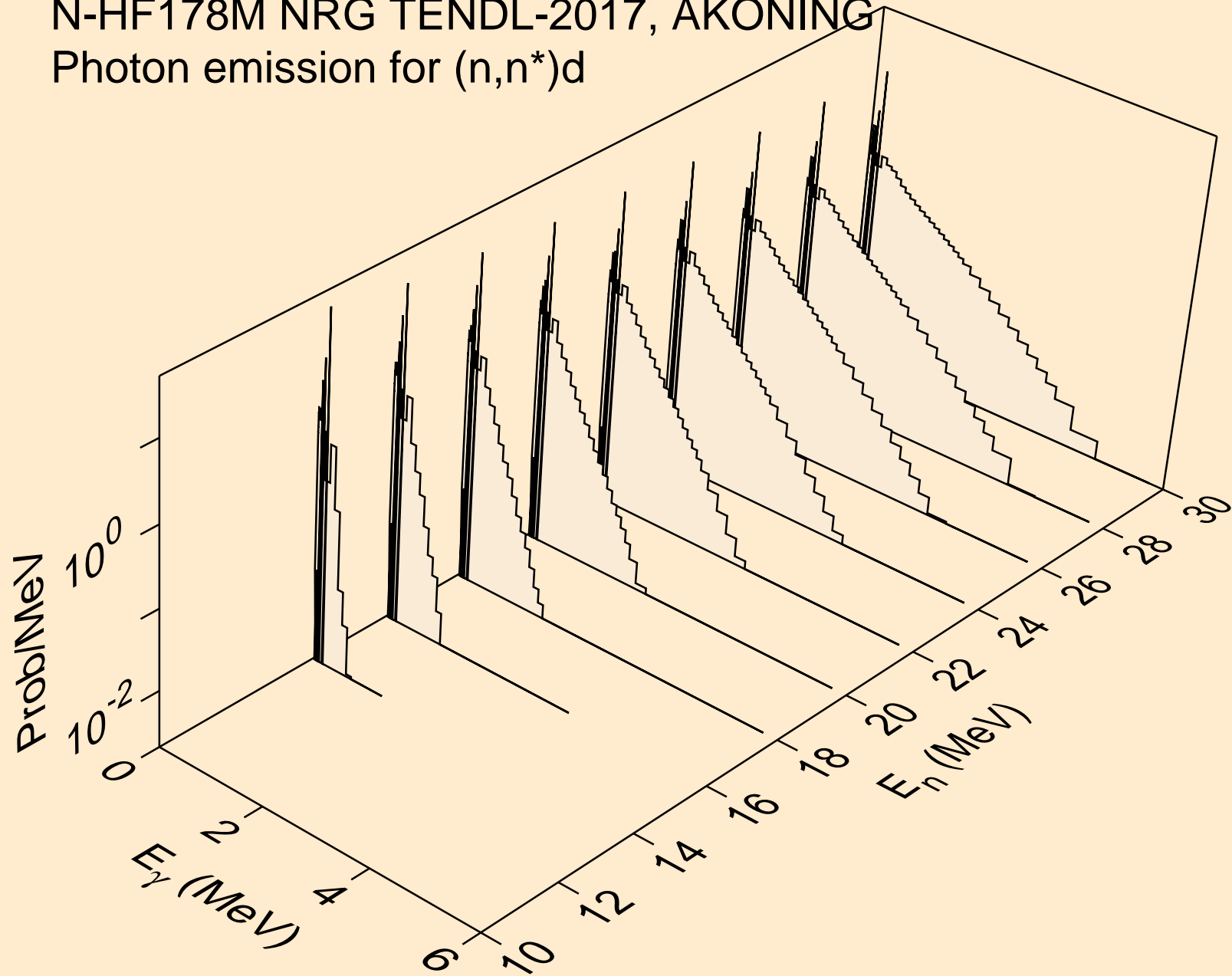
N-HF178M NRG TENDL-2017, AKONING  
Photon emission for (n,n\*)p



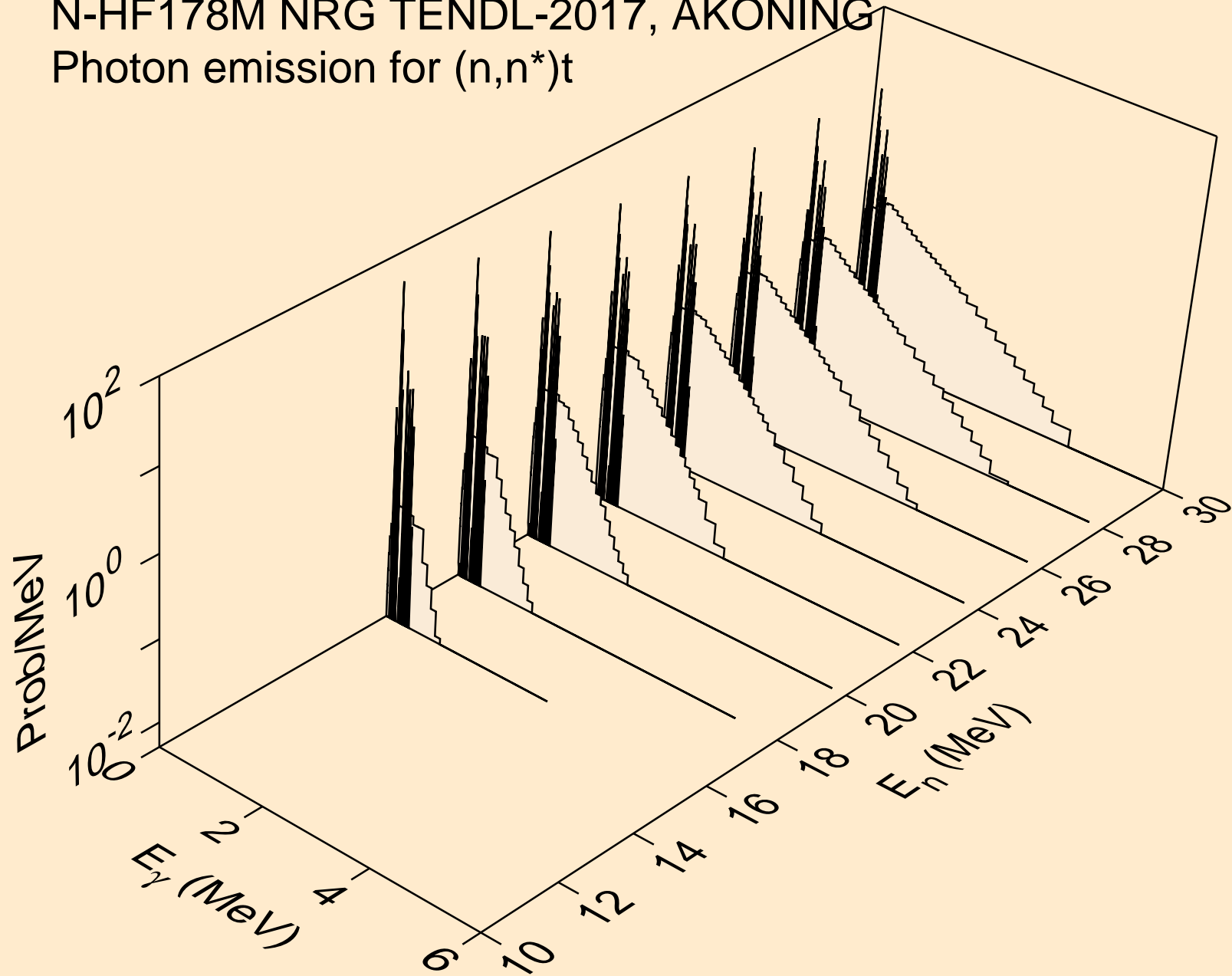
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Photon emission for (n,n\*)2a



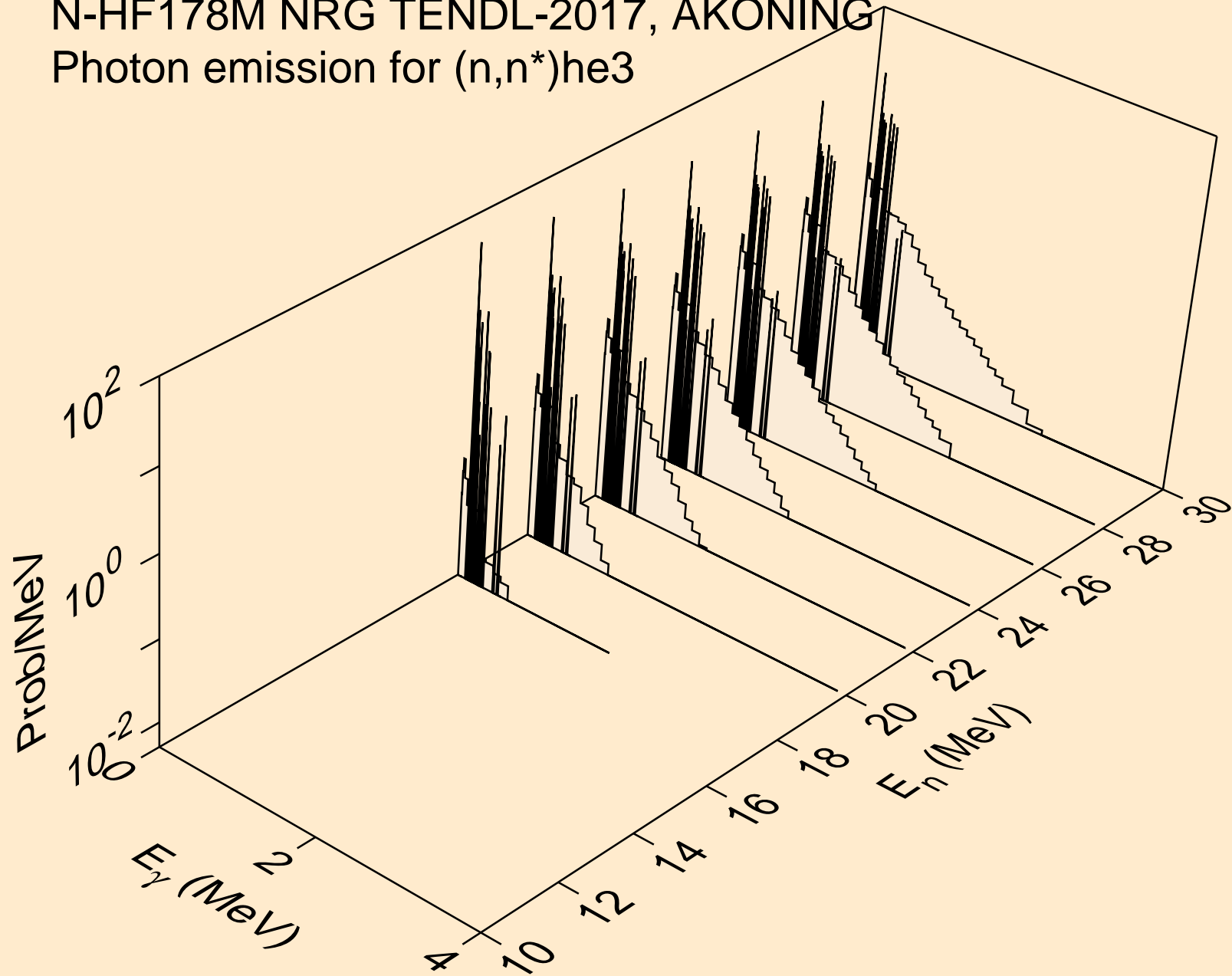
N-HF178M NRG TENDL-2017, AKONING  
Photon emission for (n,n\*)d



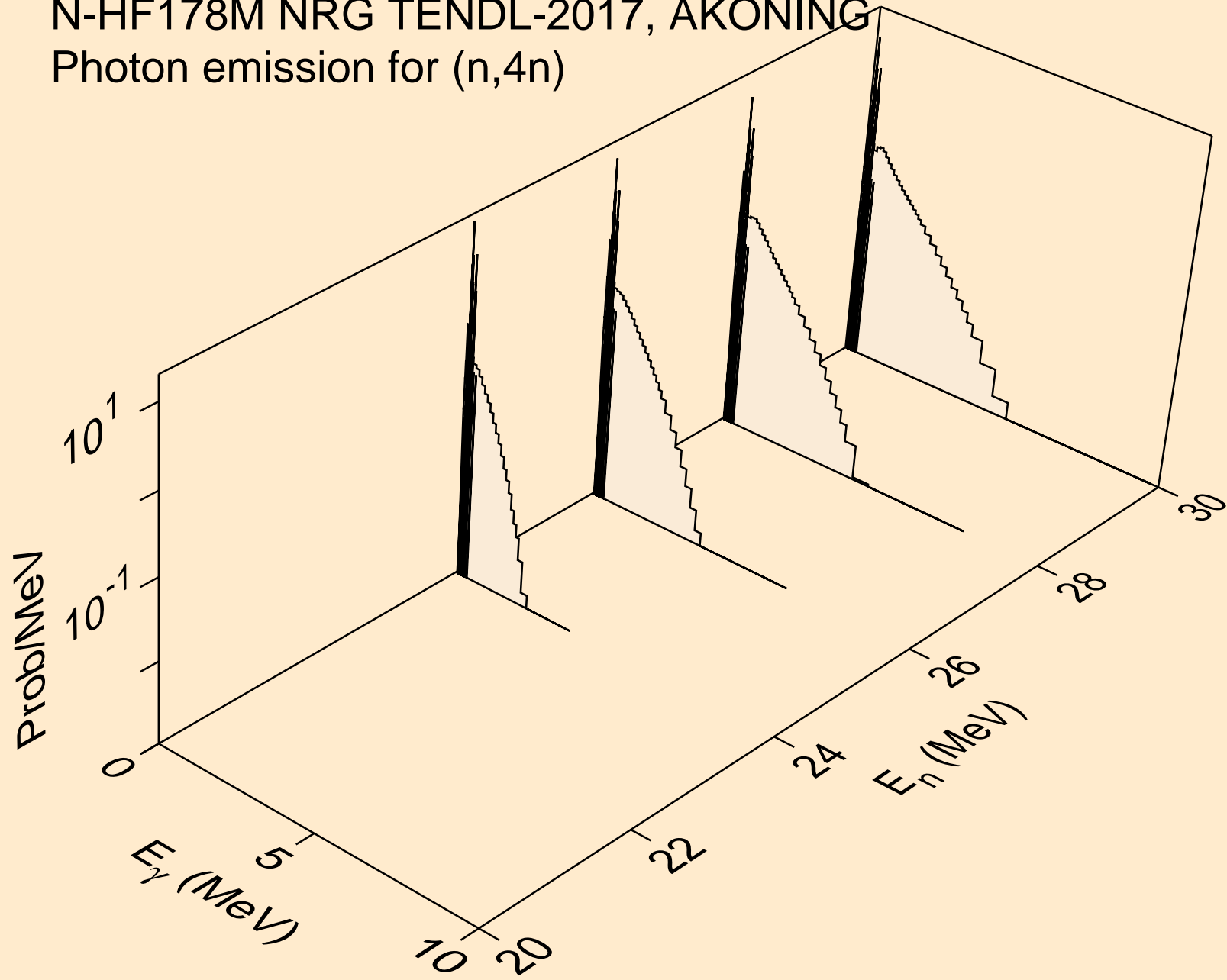
N-HF178M NRG TENDL-2017, AKONING  
Photon emission for (n,n\*)t



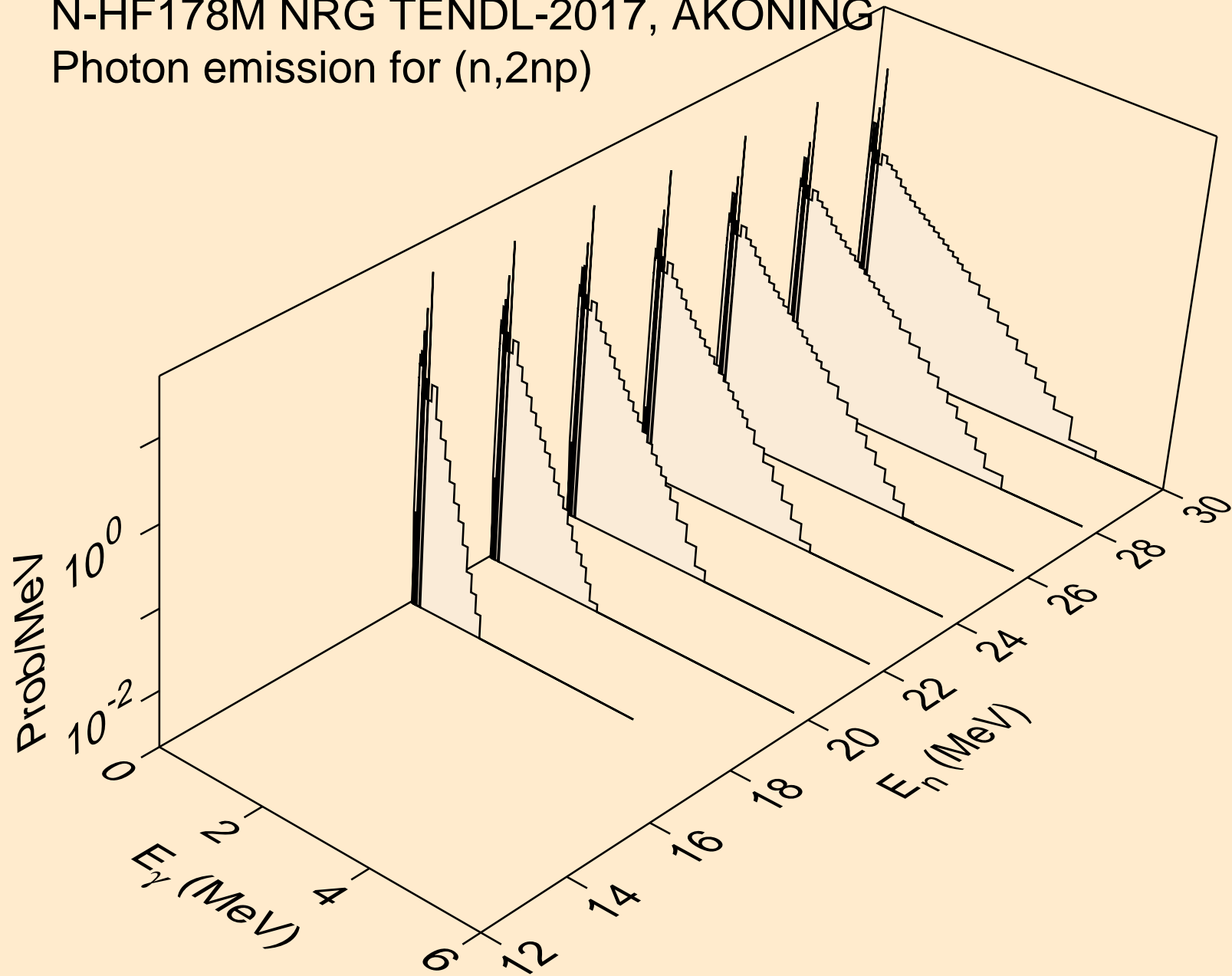
N-HF178M NRG TENDL-2017, AKONING  
Photon emission for (n,n\*)he3



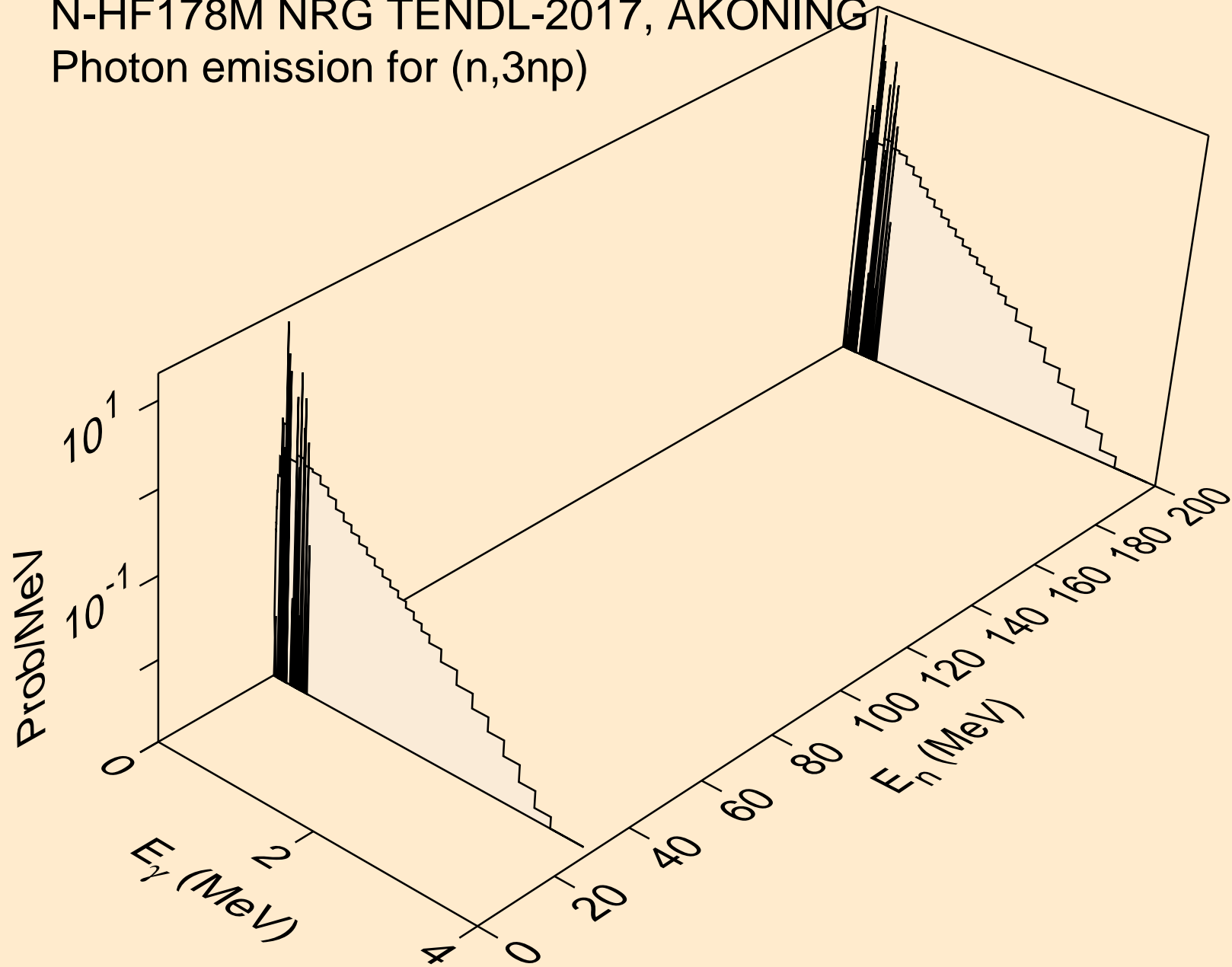
N-HF178M NRG TENDL-2017, AKONING  
Photon emission for (n,4n)



N-HF178M NRG TENDL-2017, AKONING  
Photon emission for (n,2np)

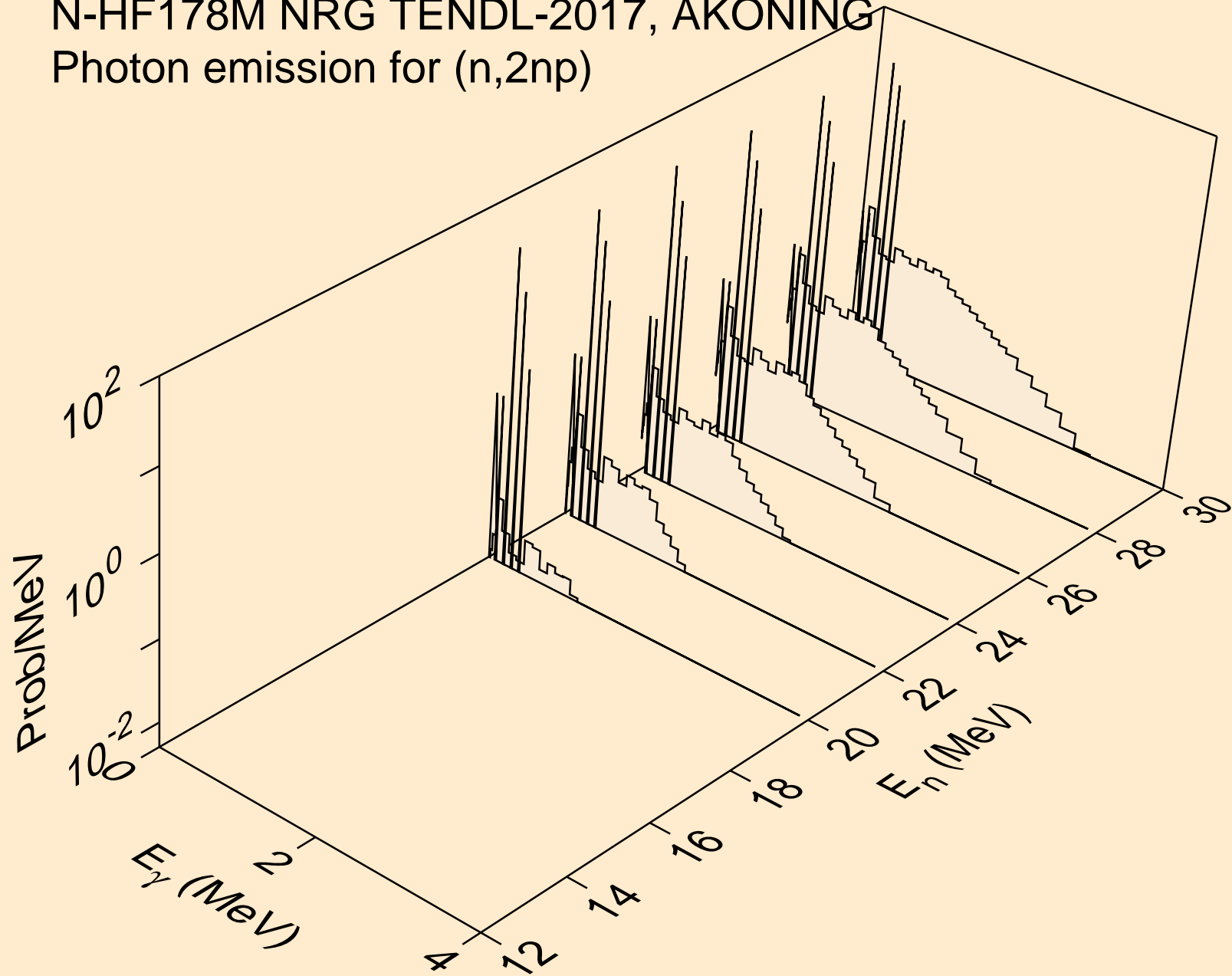


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Photon emission for (n,3np)

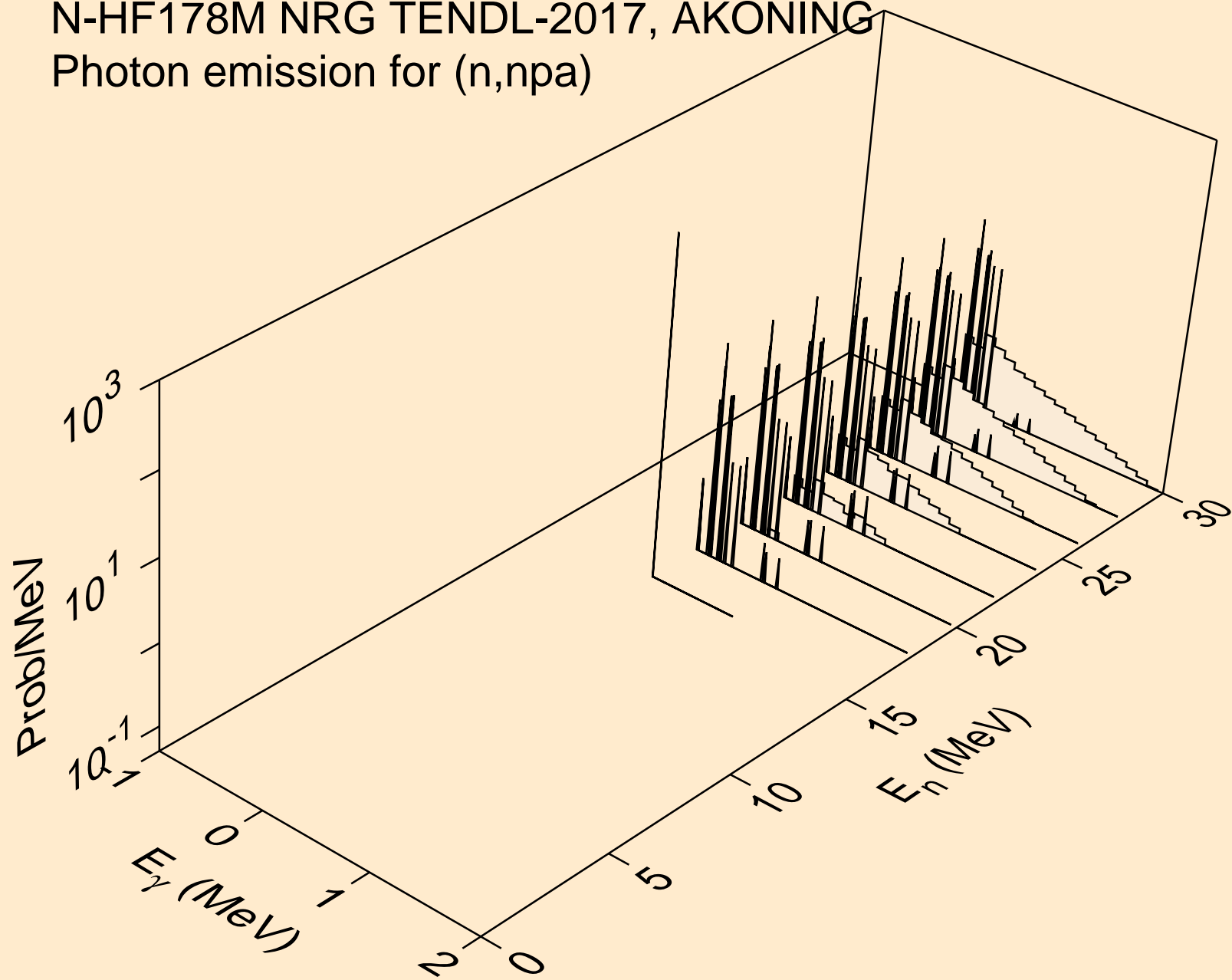




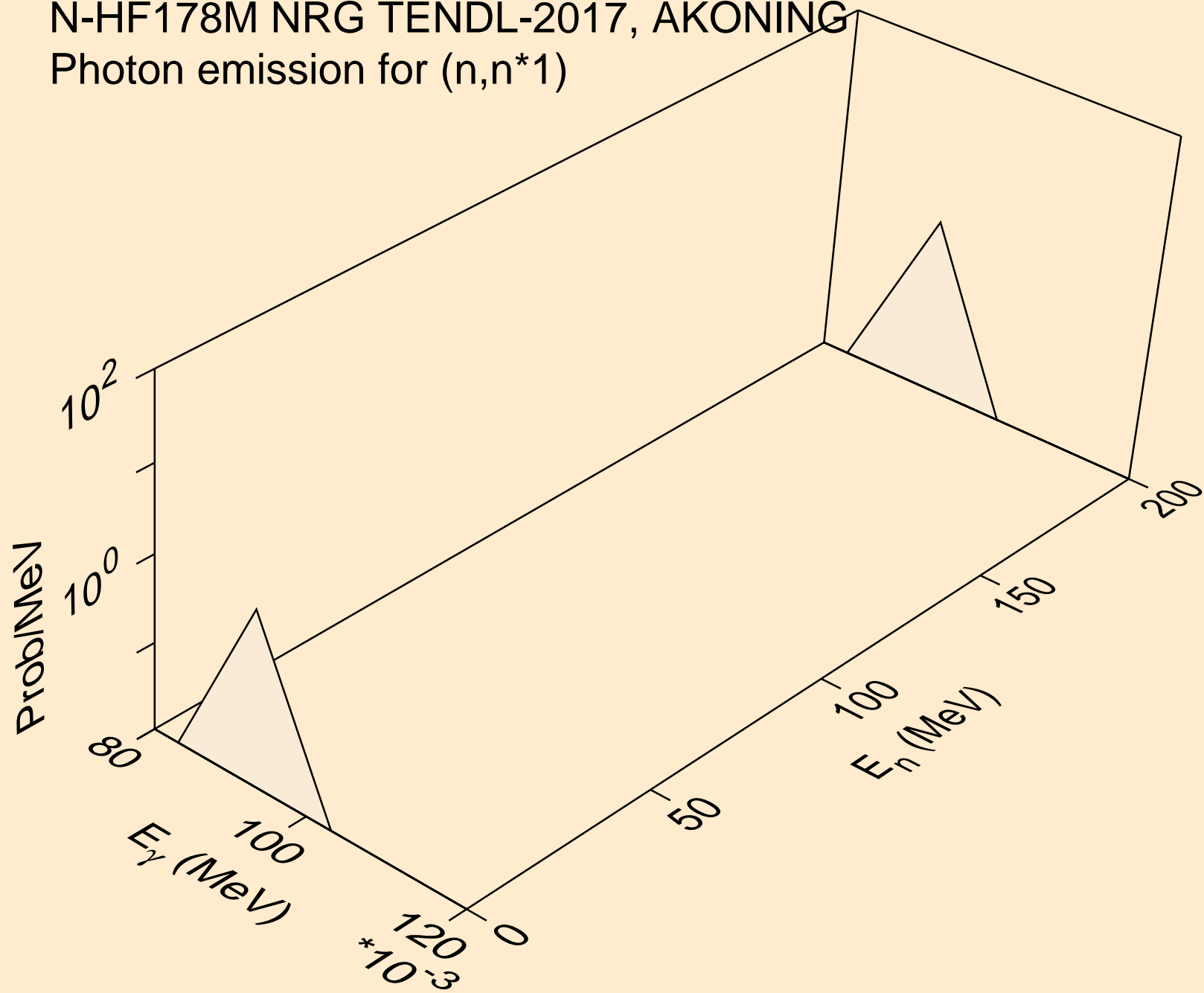
N-HF178M NRG TENDL-2017, AKONING  
Photon emission for (n,2np)



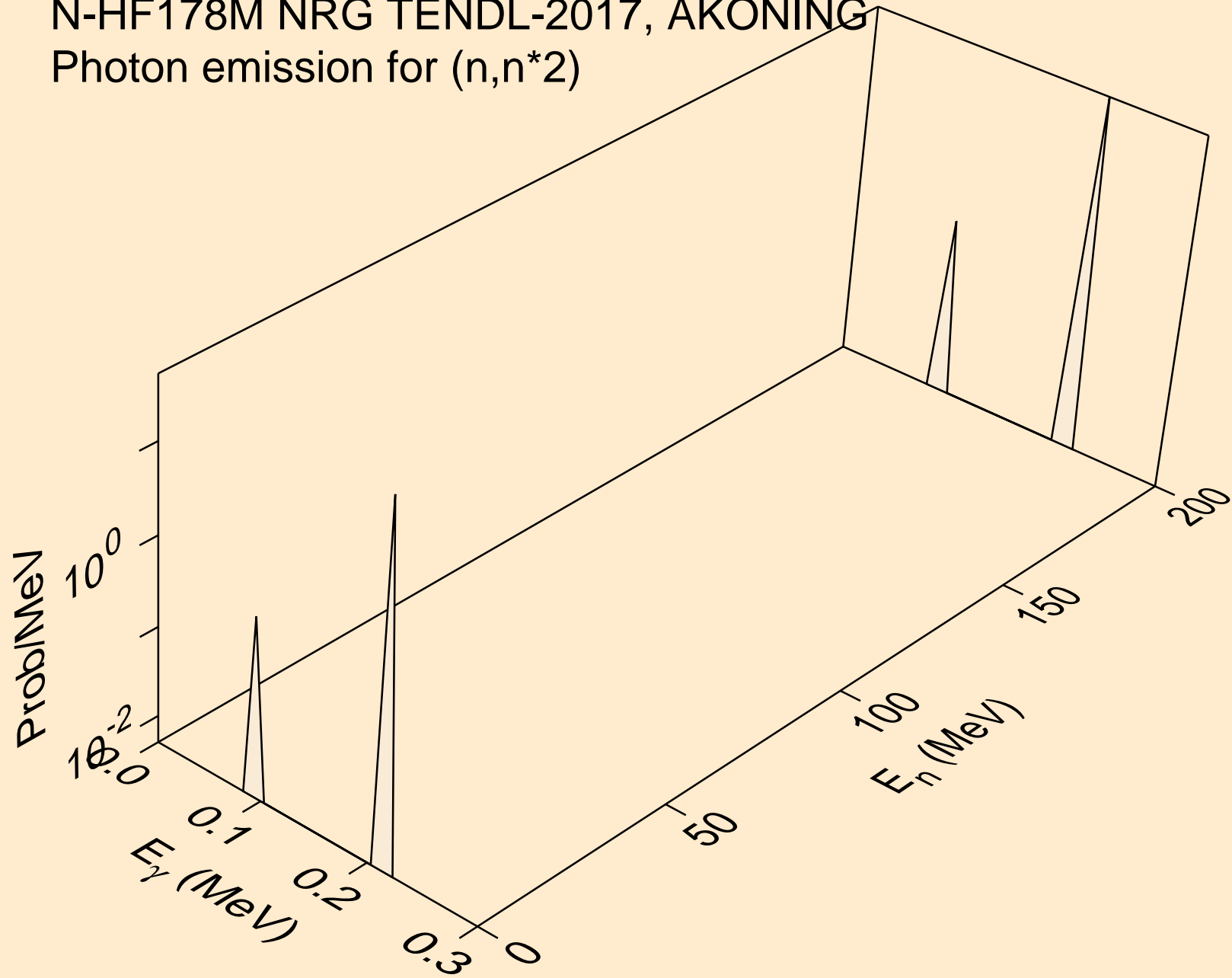
N-HF178M NRG TENDL-2017, AKONING  
Photon emission for (n,npa)



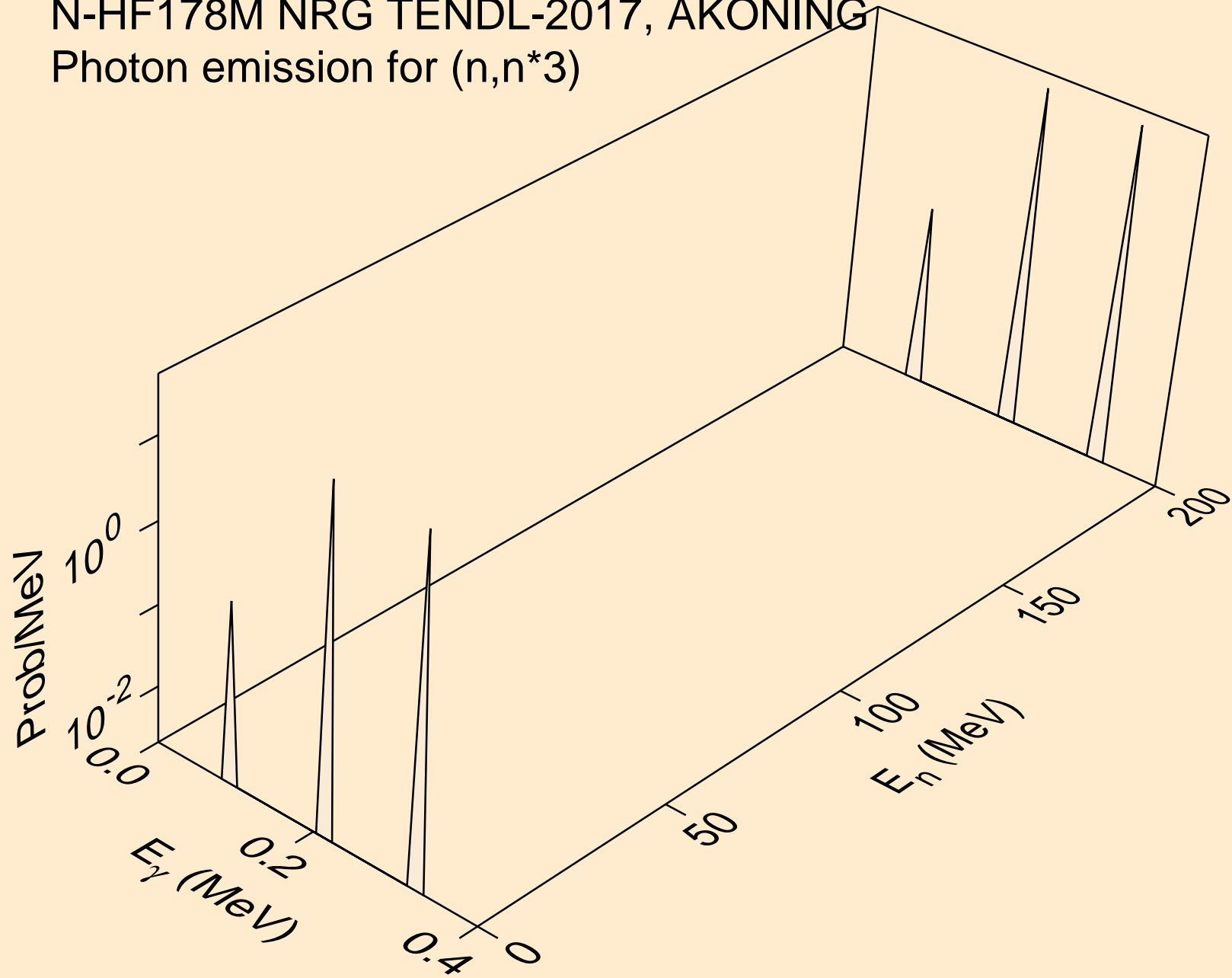
N-HF178M NRG TENDL-2017, AKONING  
Photon emission for (n,n\*1)



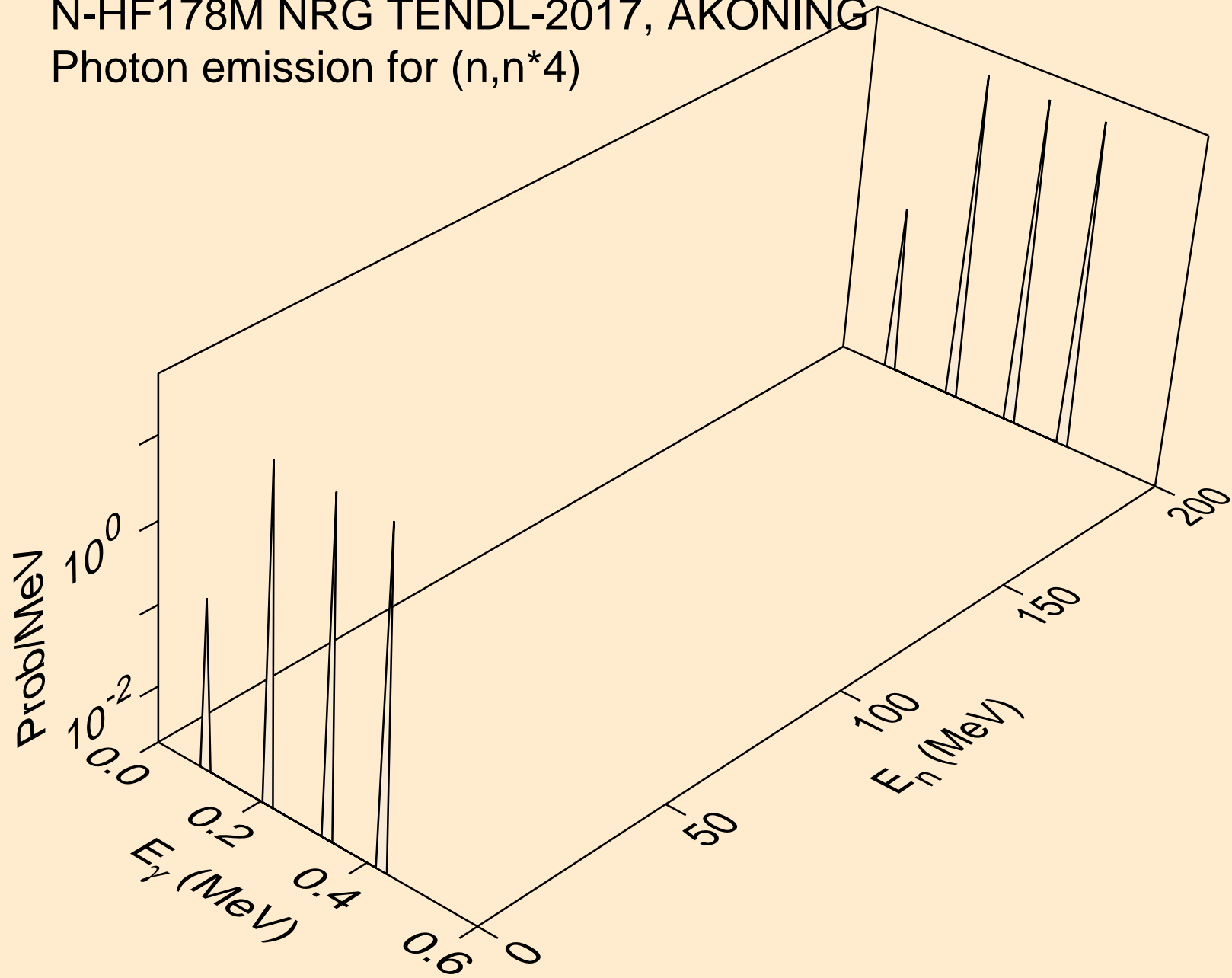
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Photon emission for (n,n\*2)



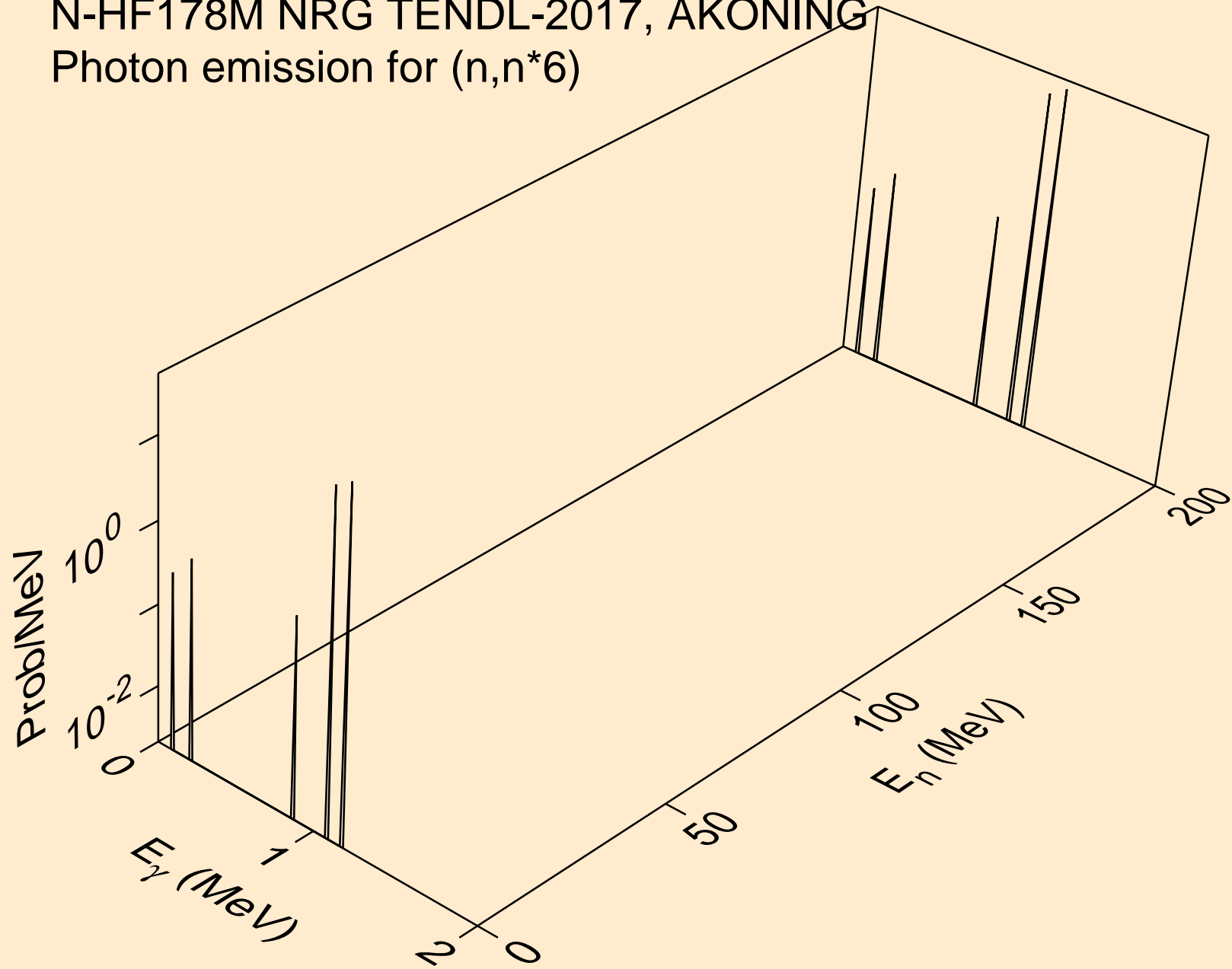
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Photon emission for (n,n\*3)



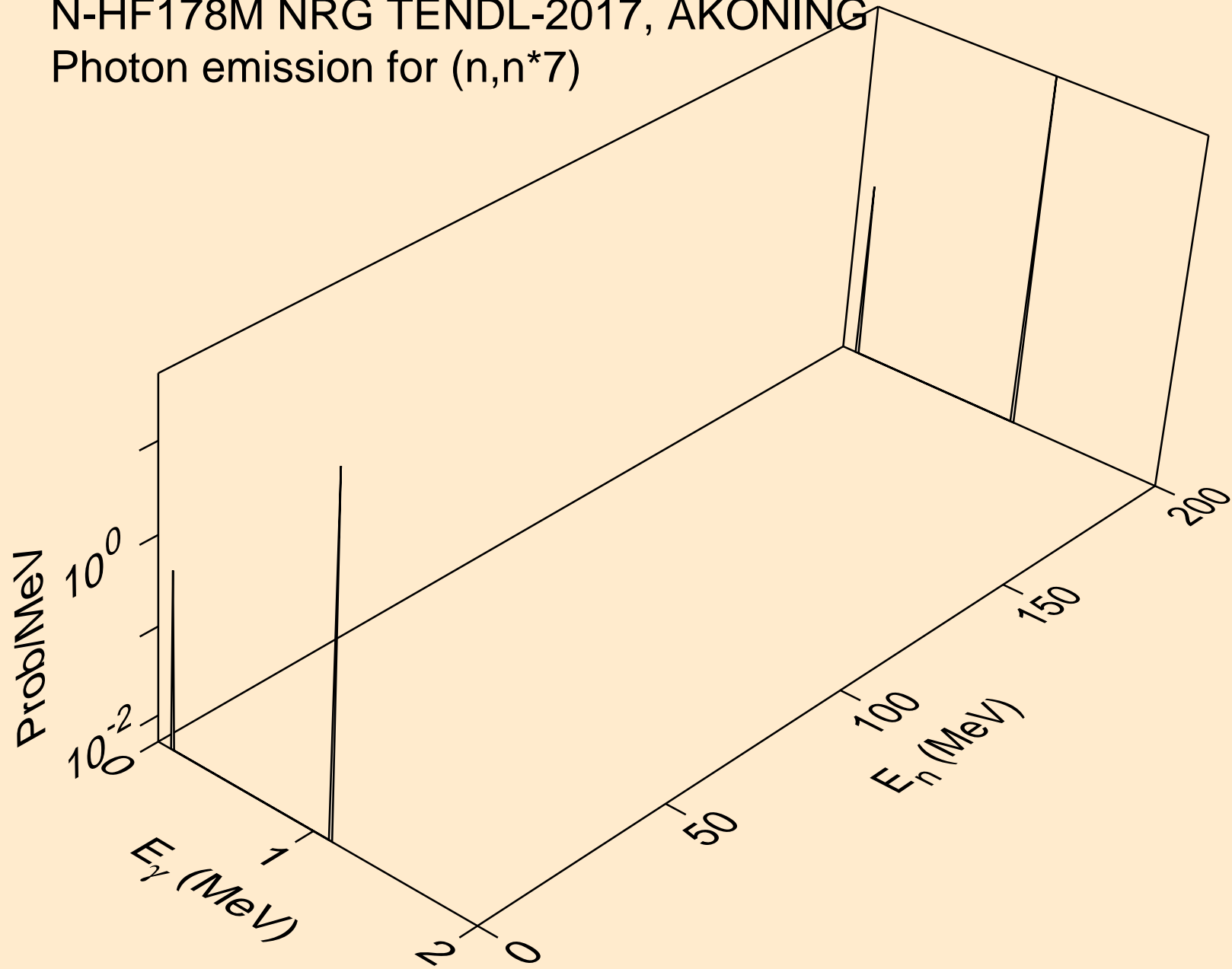
N-HF178M NRG TENDL-2017, AKONING  
Photon emission for (n,n\*4)



N-HF178M NRG TENDL-2017, AKONING  
Photon emission for (n,n\*6)

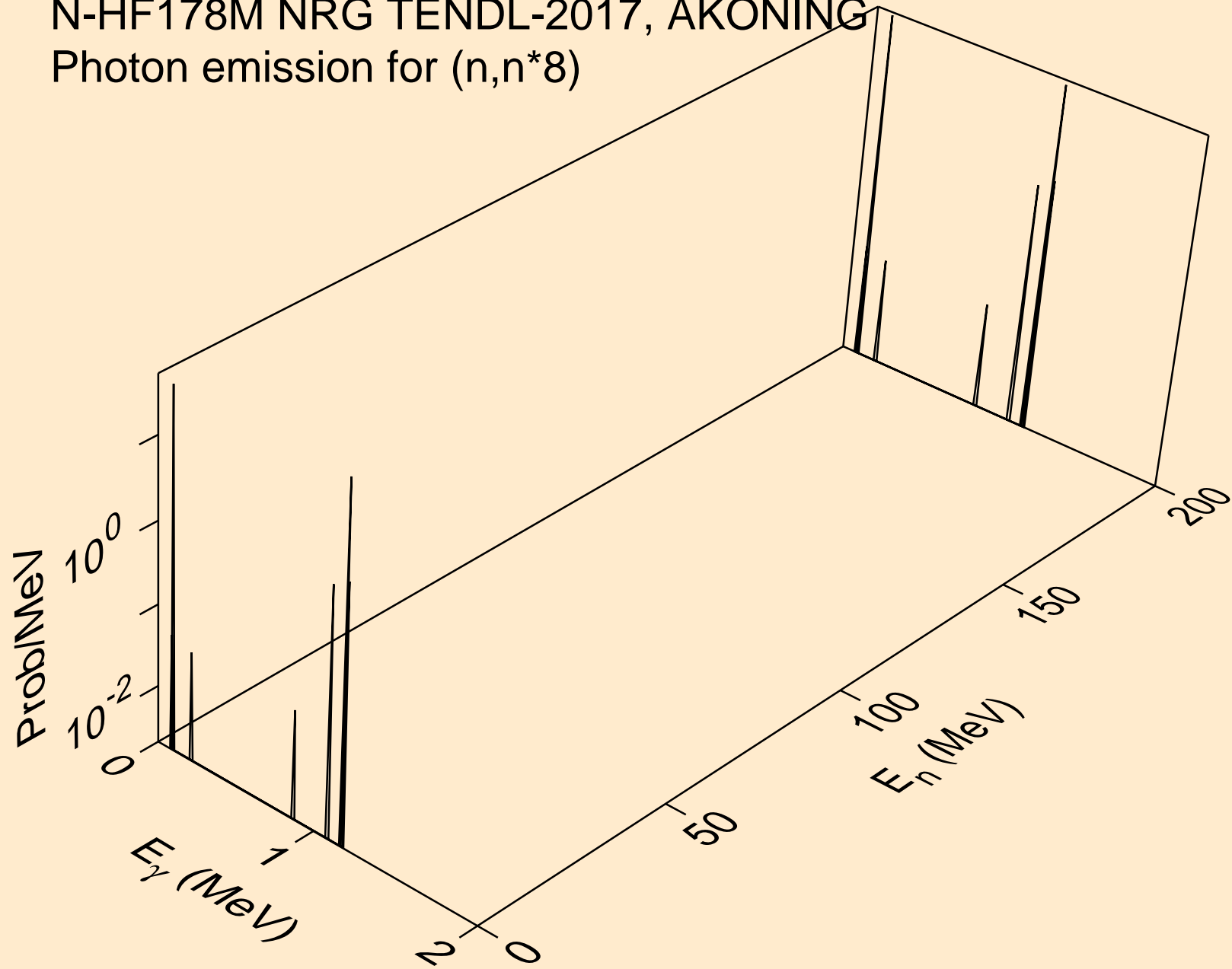


N-HF178M NRG TENDL-2017, AKONING  
Photon emission for (n,n\*7)

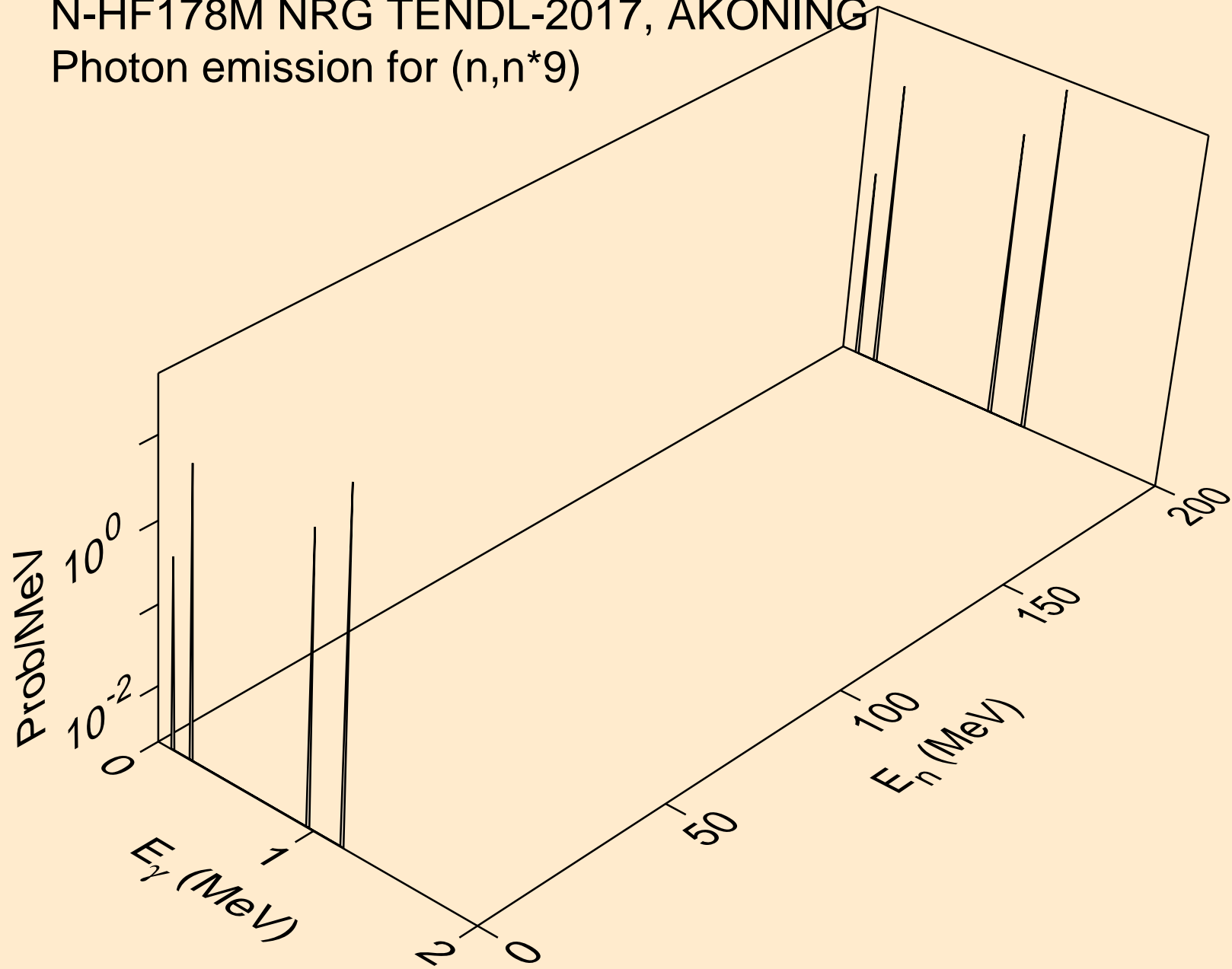




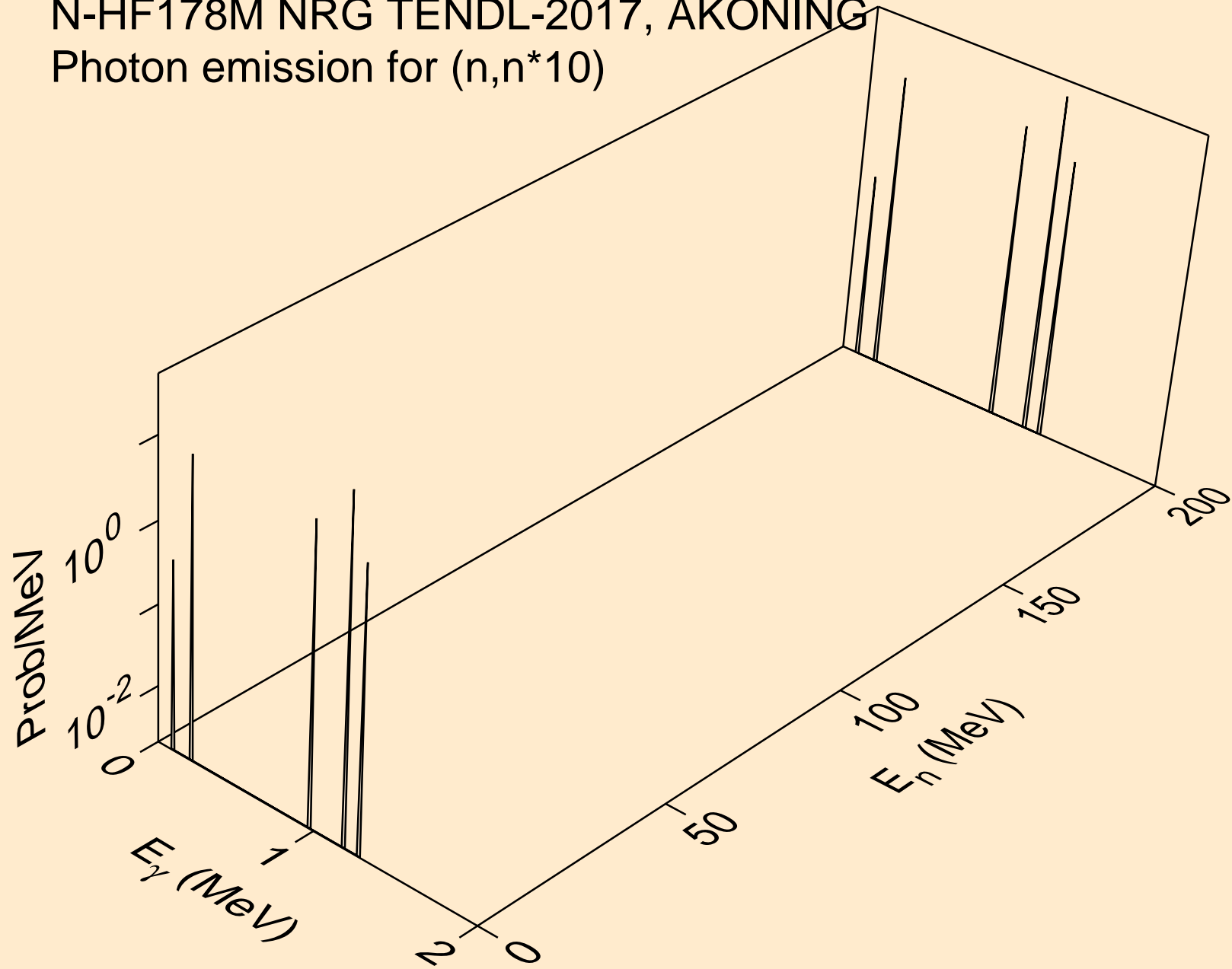
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Photon emission for (n,n\*8)



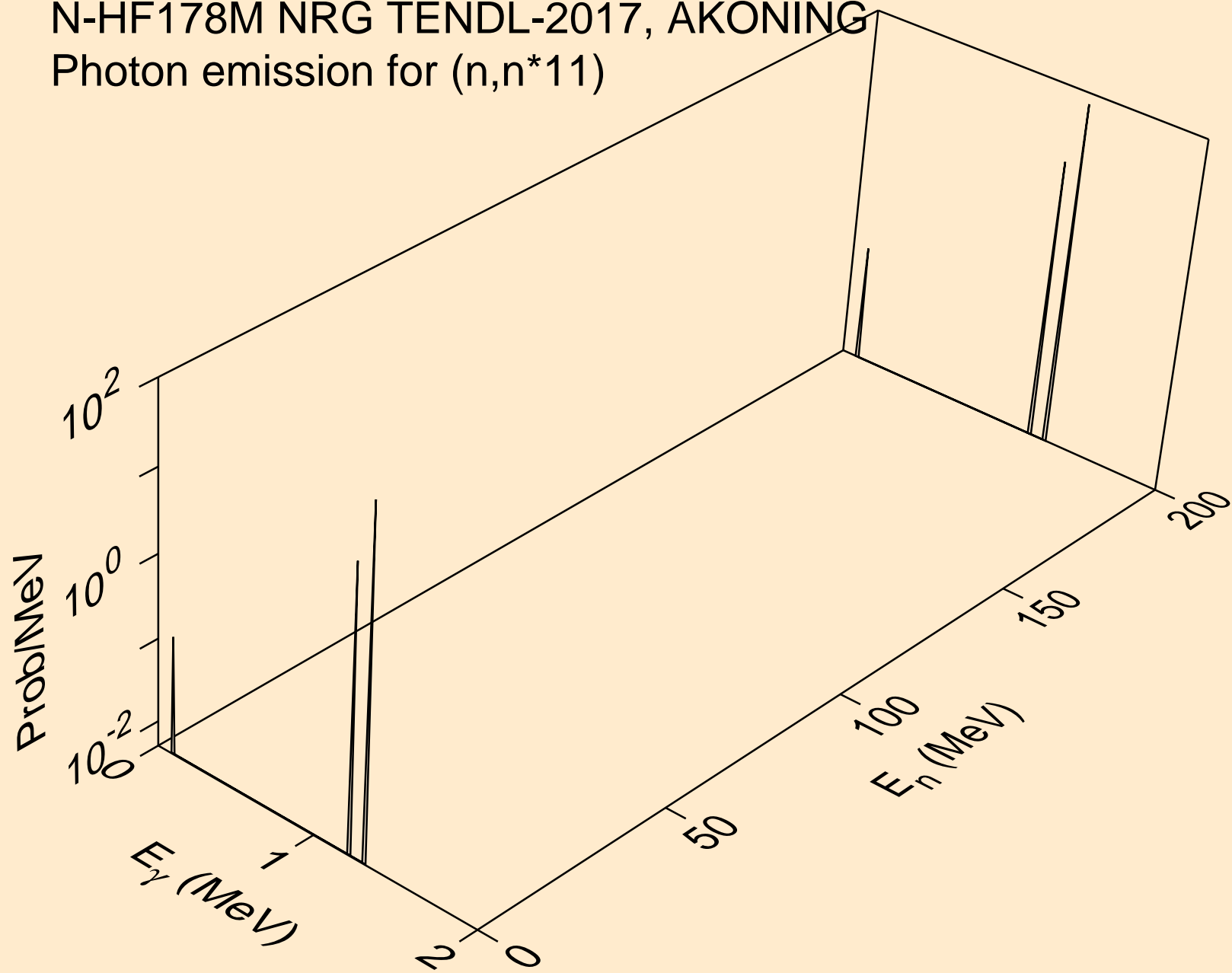
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Photon emission for (n,n\*9)



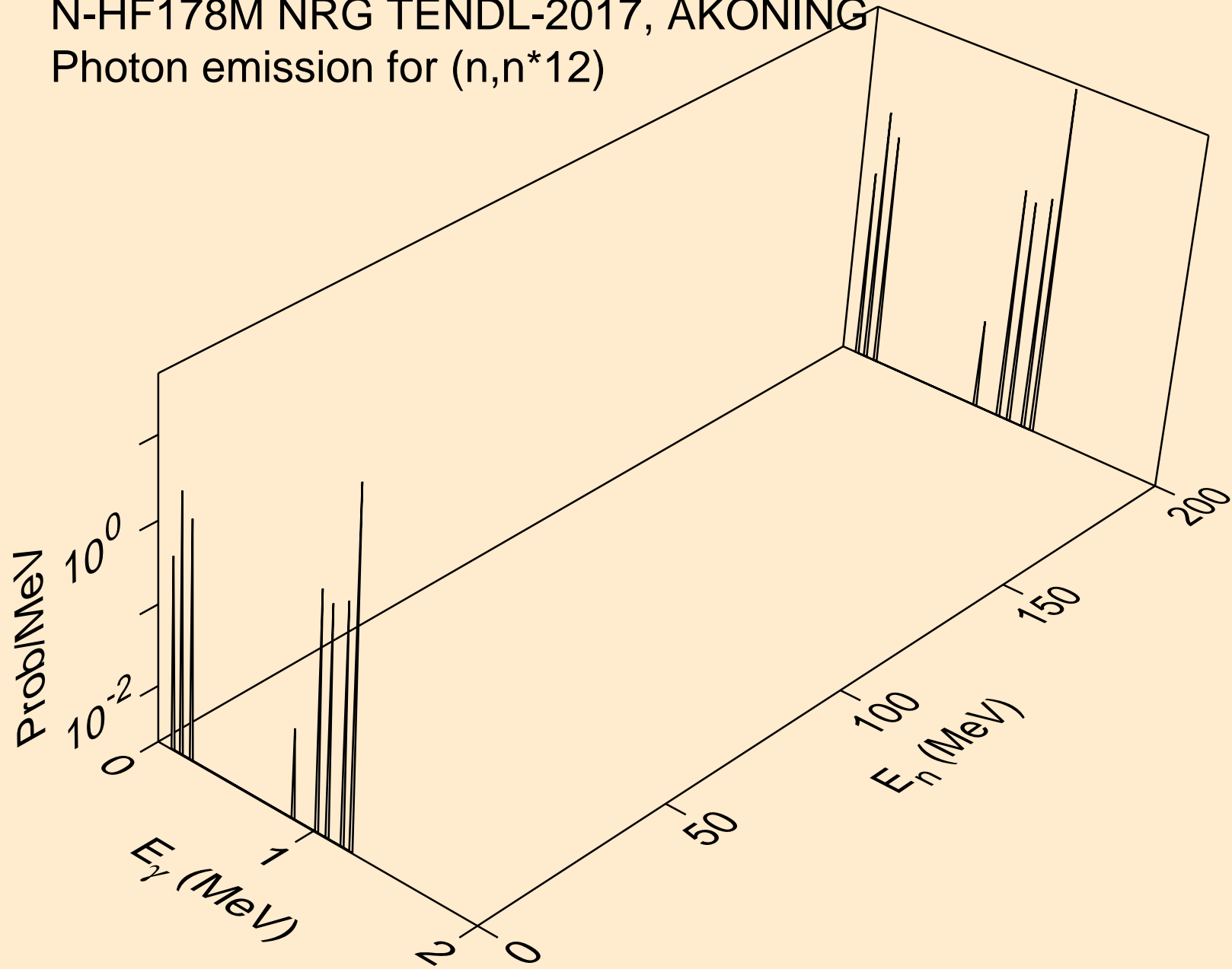
N-HF178M NRG TENDL-2017, AKONING  
Photon emission for (n,n\*10)



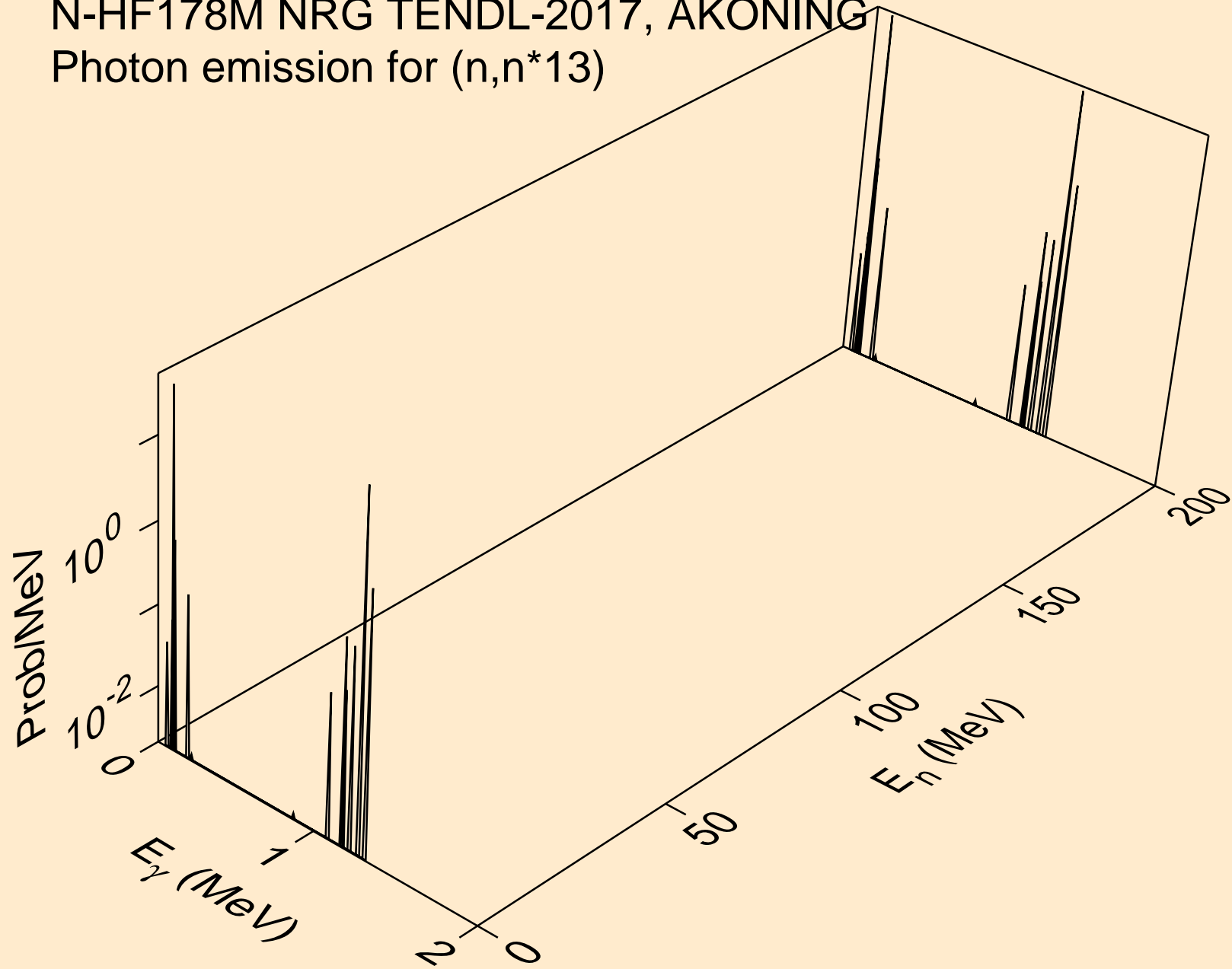
N-HF178M NRG TENDL-2017, AKONING  
Photon emission for (n,n\*11)



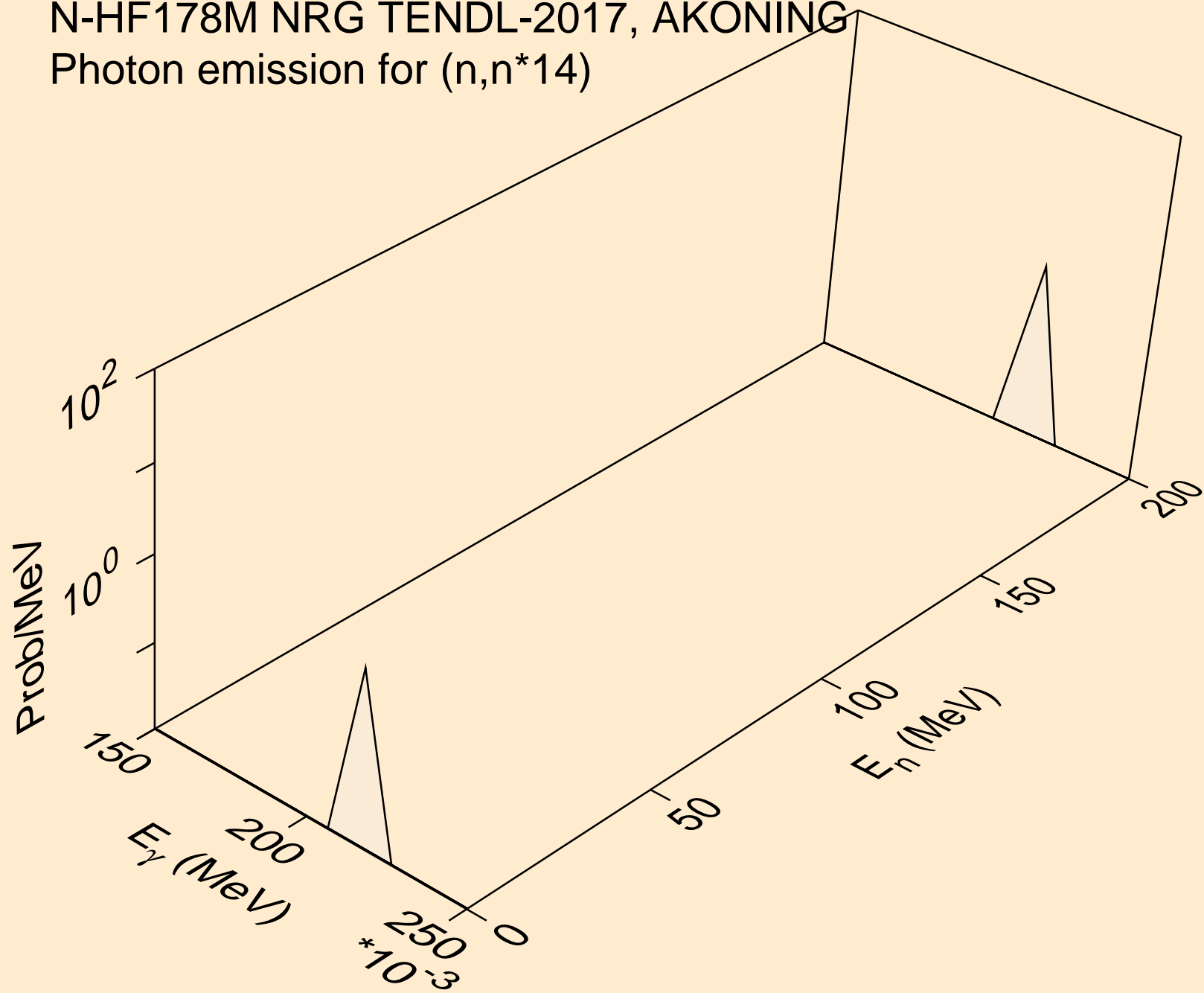
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Photon emission for (n,n\*12)



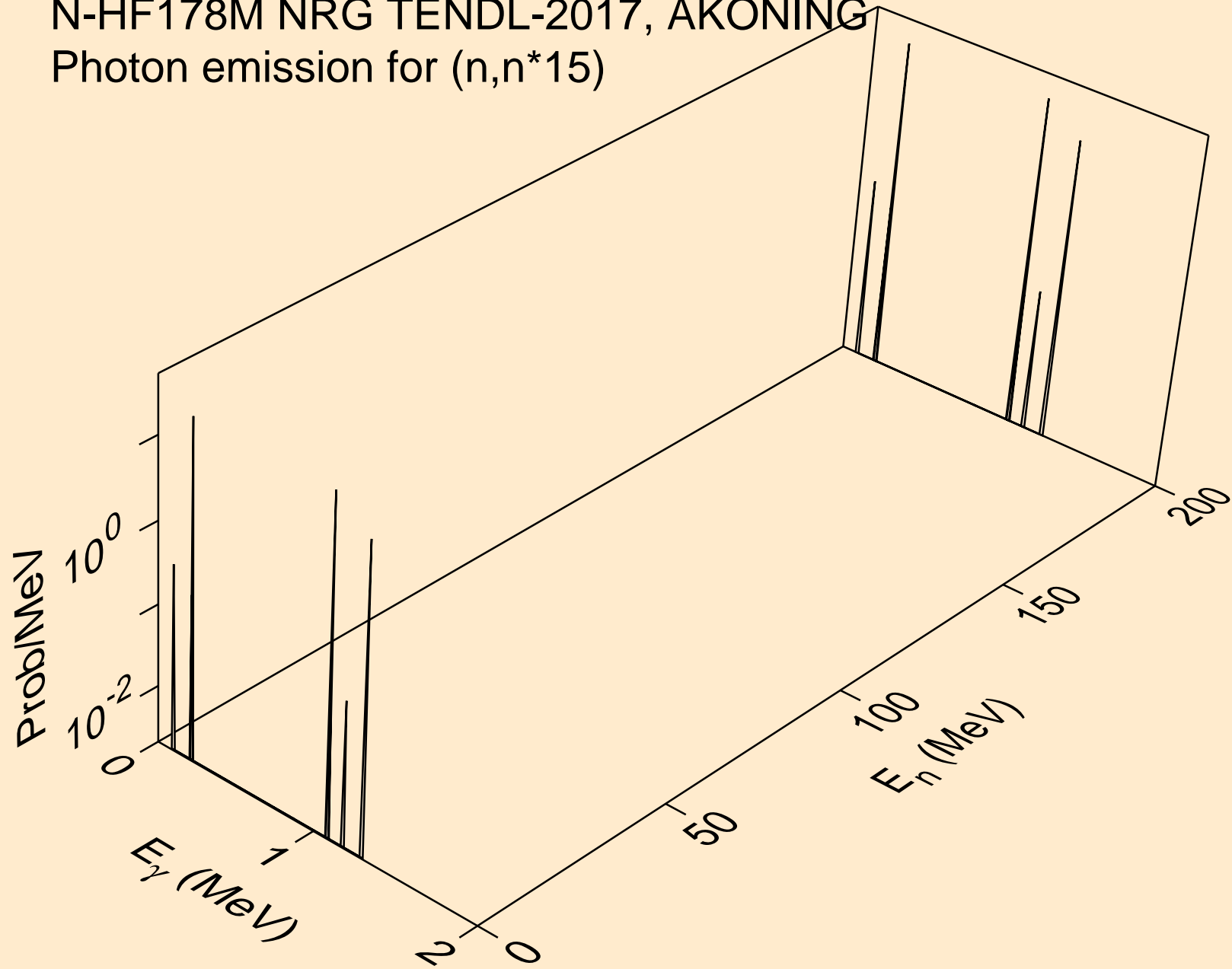
N-HF178M NRG TENDL-2017, AKONING  
Photon emission for (n,n\*13)



N-HF178M NRG TENDL-2017, AKONING  
Photon emission for (n,n\*14)

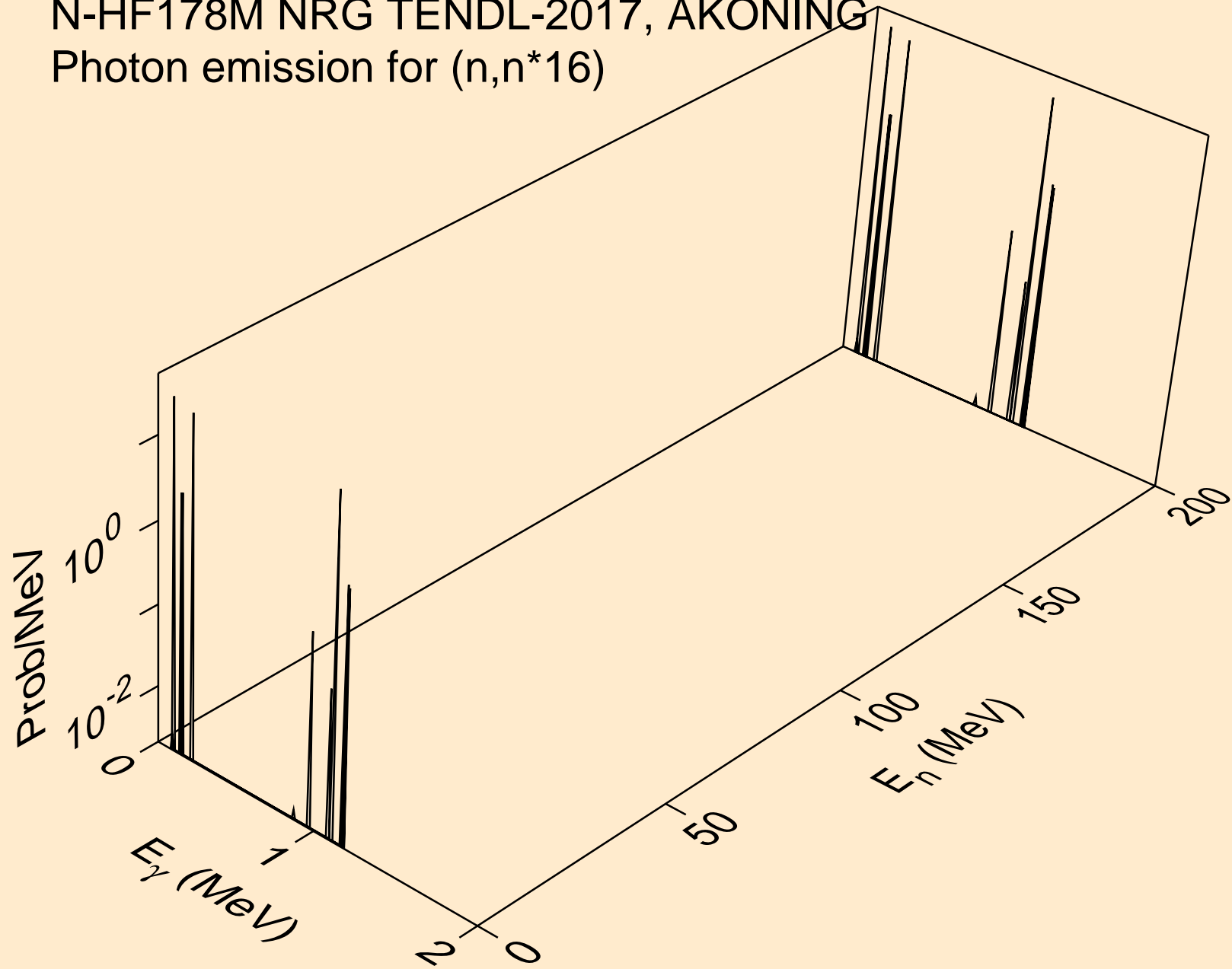


N-HF178M NRG TENDL-2017, AKONING  
Photon emission for (n,n\*15)

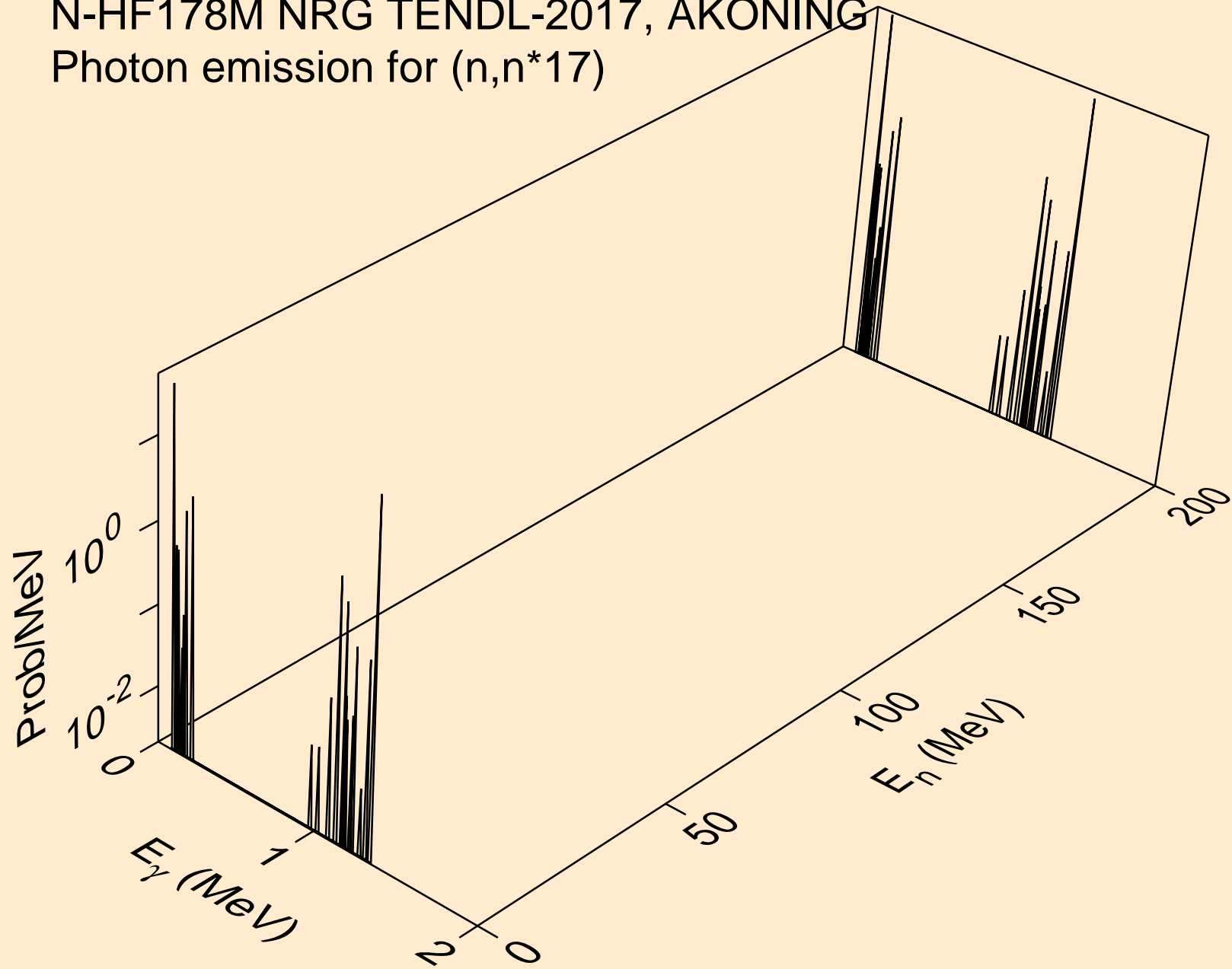




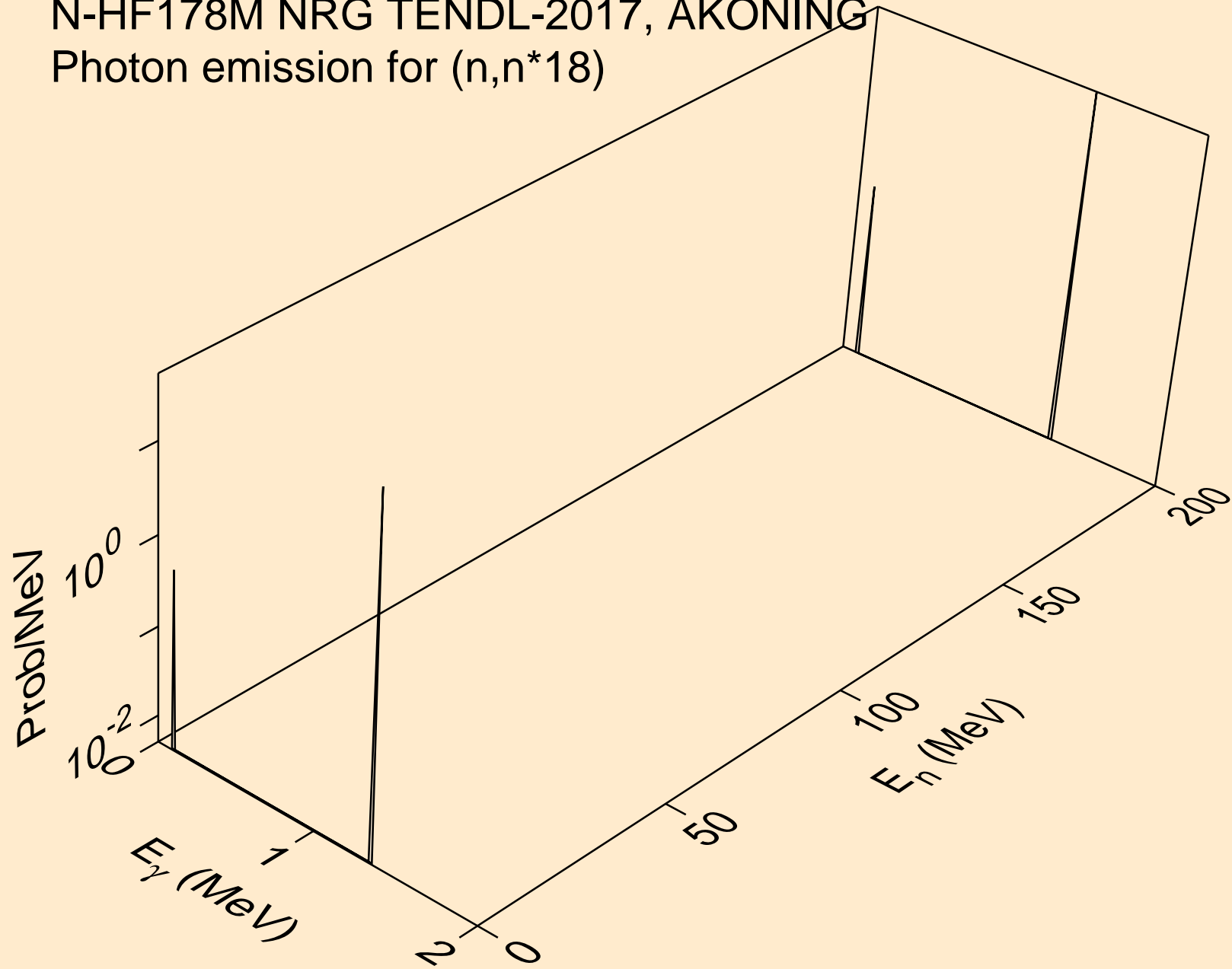
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Photon emission for (n,n\*16)



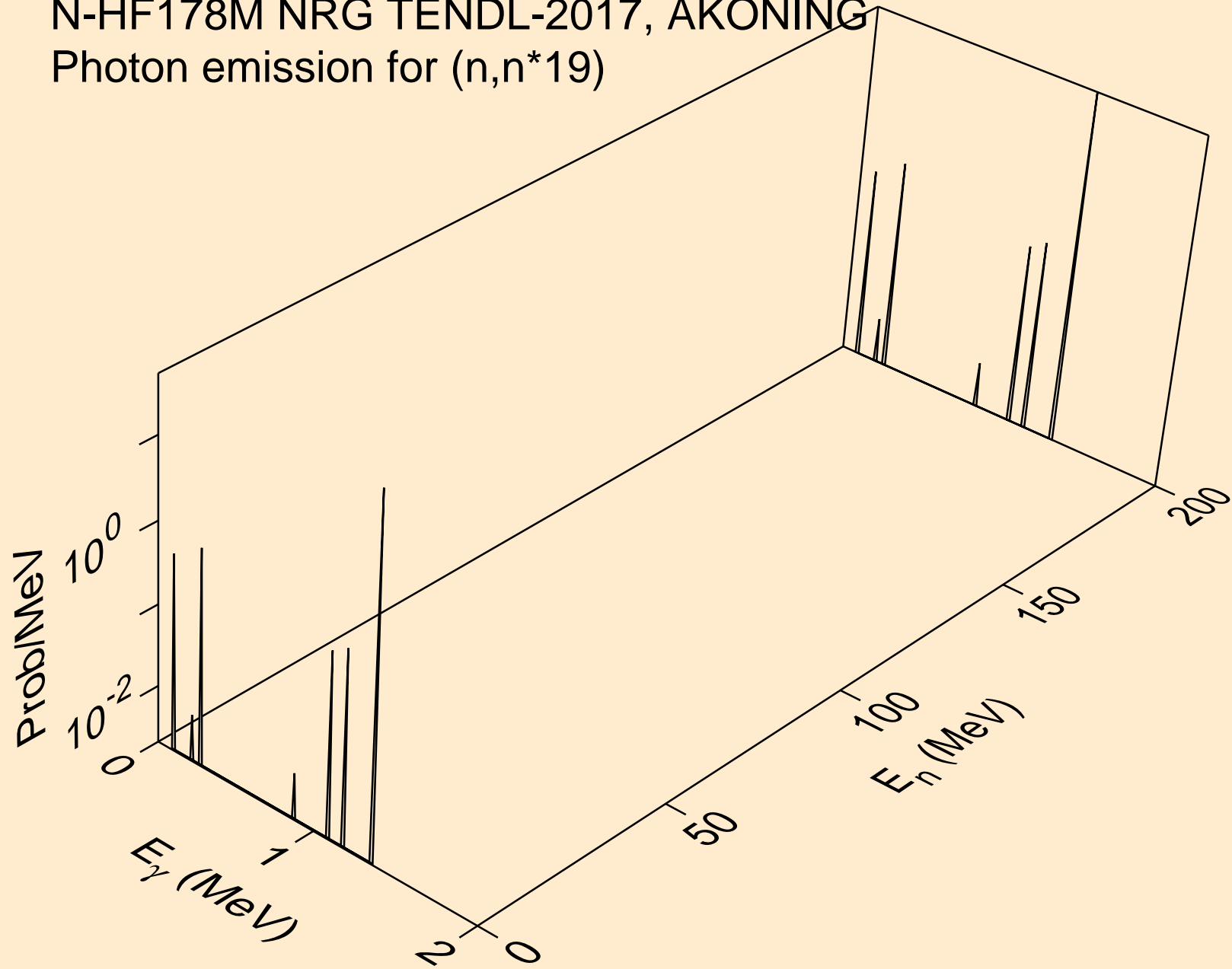
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Photon emission for (n,n\*17)



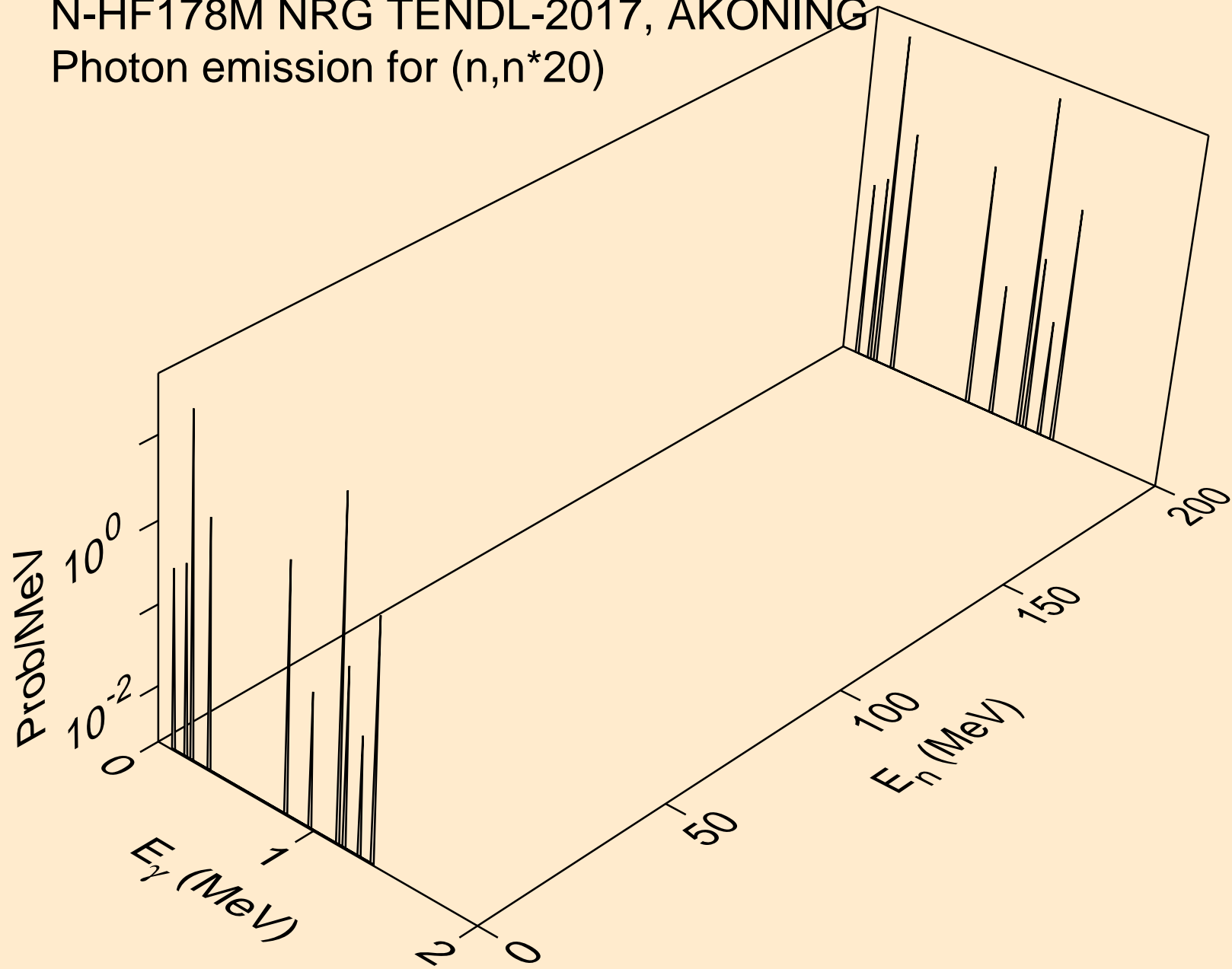
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Photon emission for (n,n\*18)



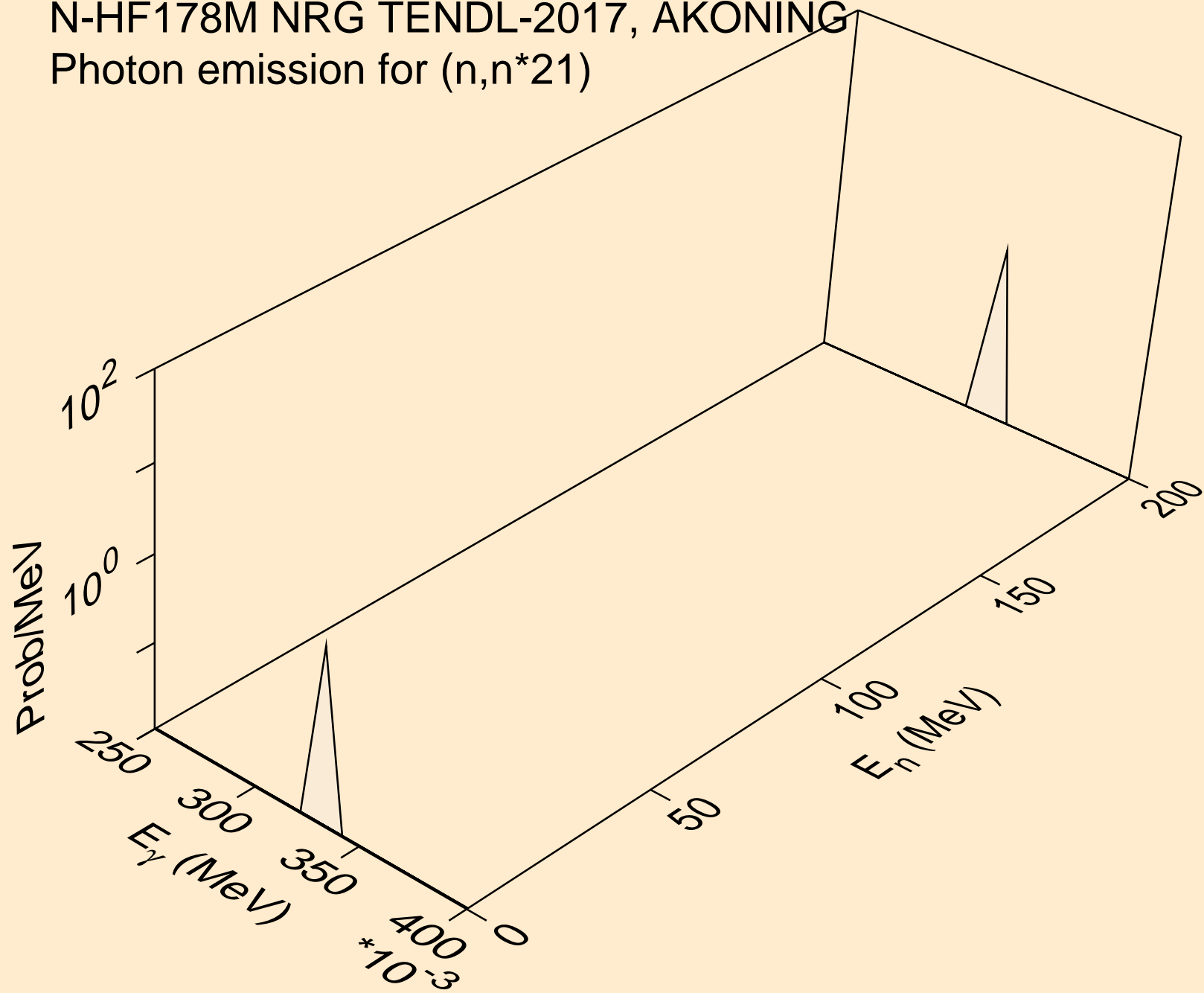
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Photon emission for (n,n\*19)



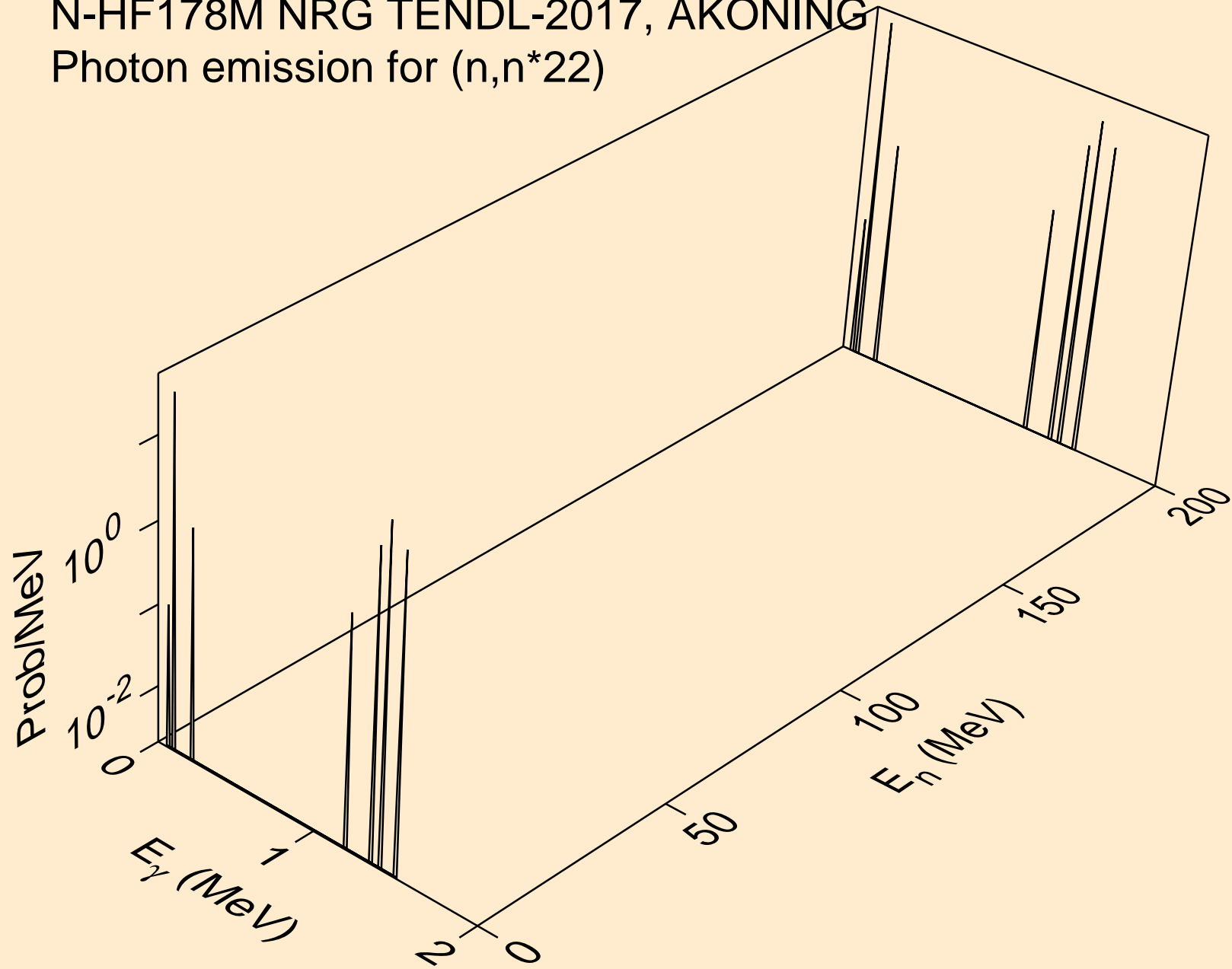
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Photon emission for (n,n\*20)



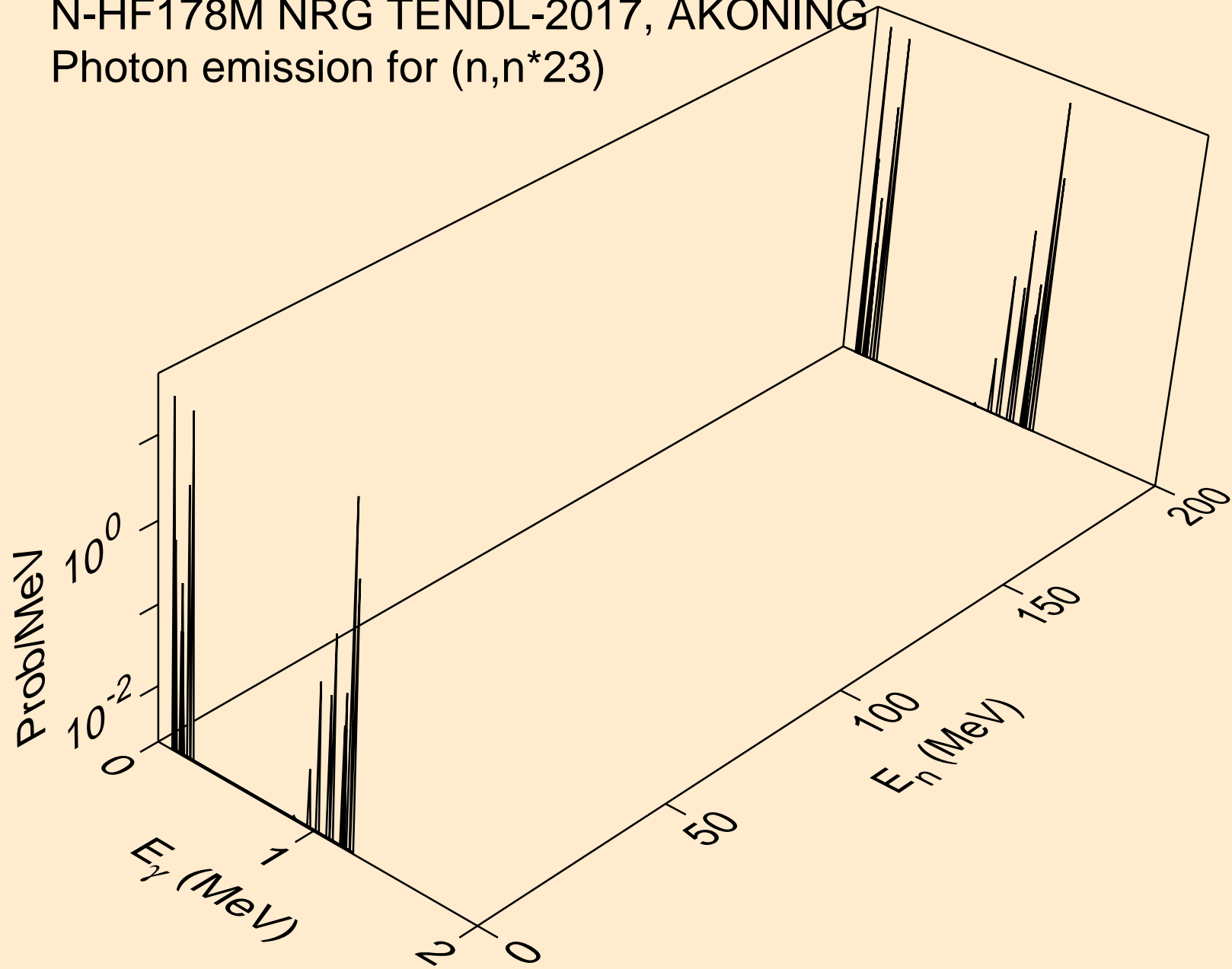
N-HF178M NRG TENDL-2017, AKONING  
Photon emission for (n,n\*21)



N-HF178M NRG TENDL-2017, AKONING  
Photon emission for (n,n\*22)

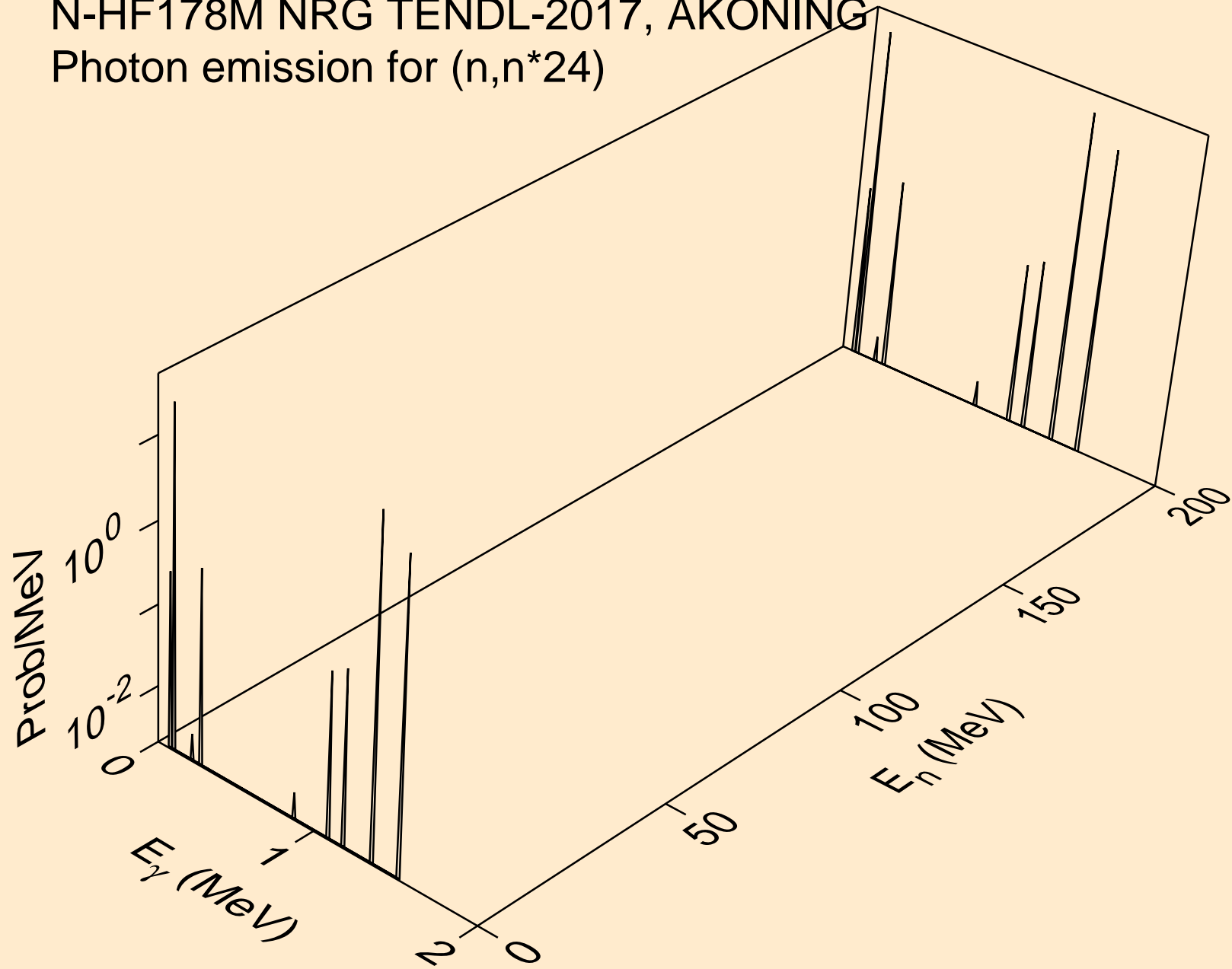


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Photon emission for (n,n\*23)

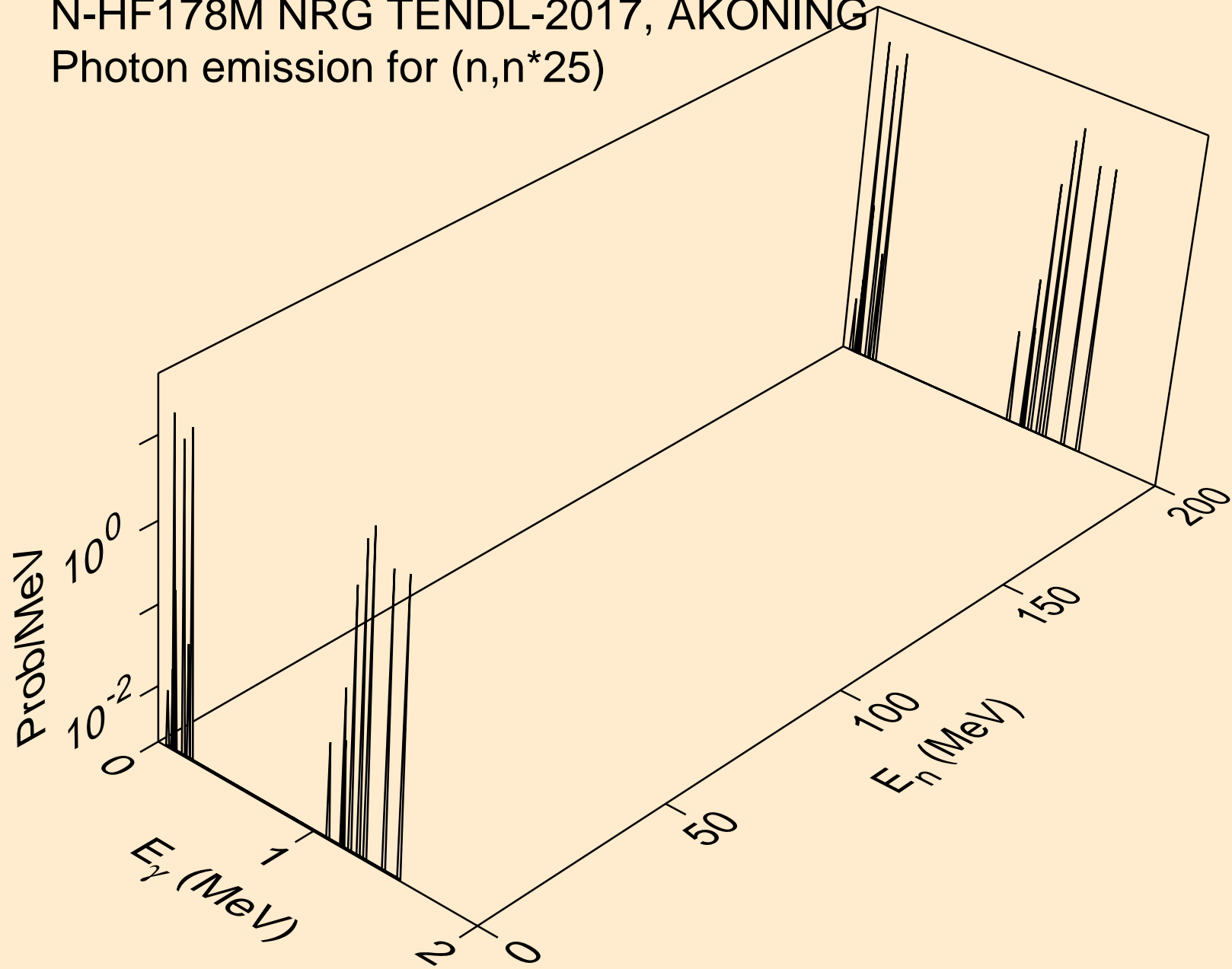




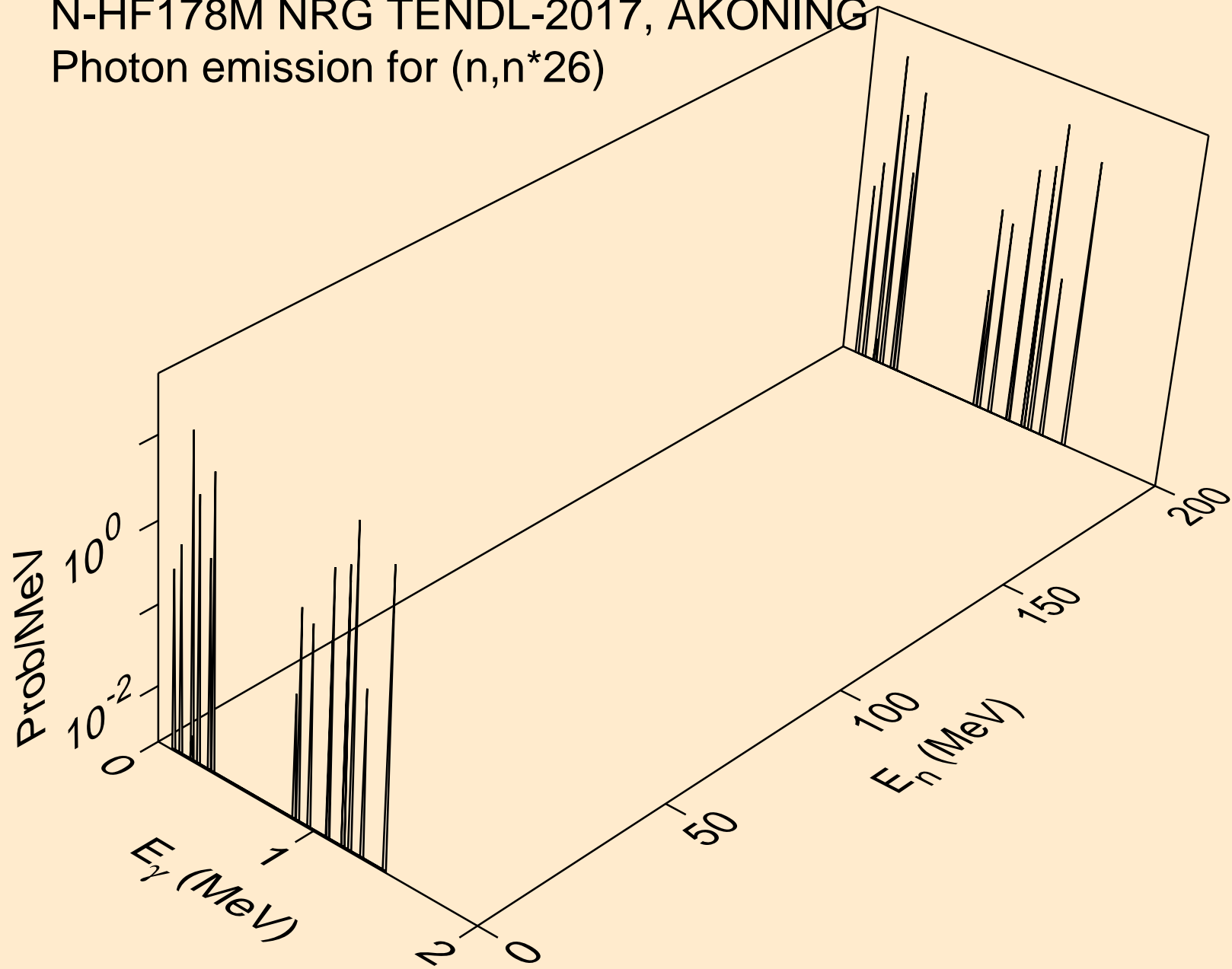
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Photon emission for (n,n\*24)



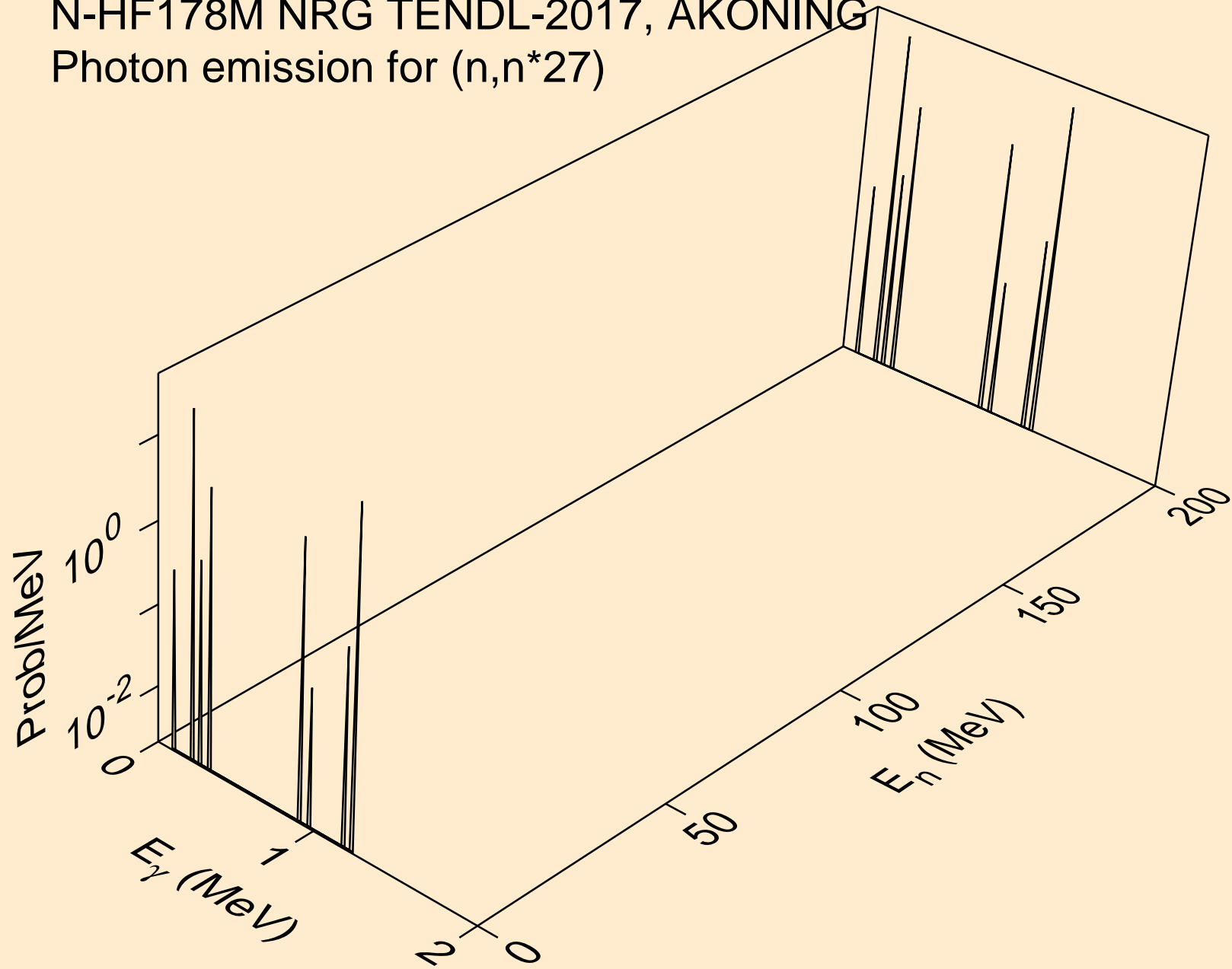
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Photon emission for (n,n\*25)



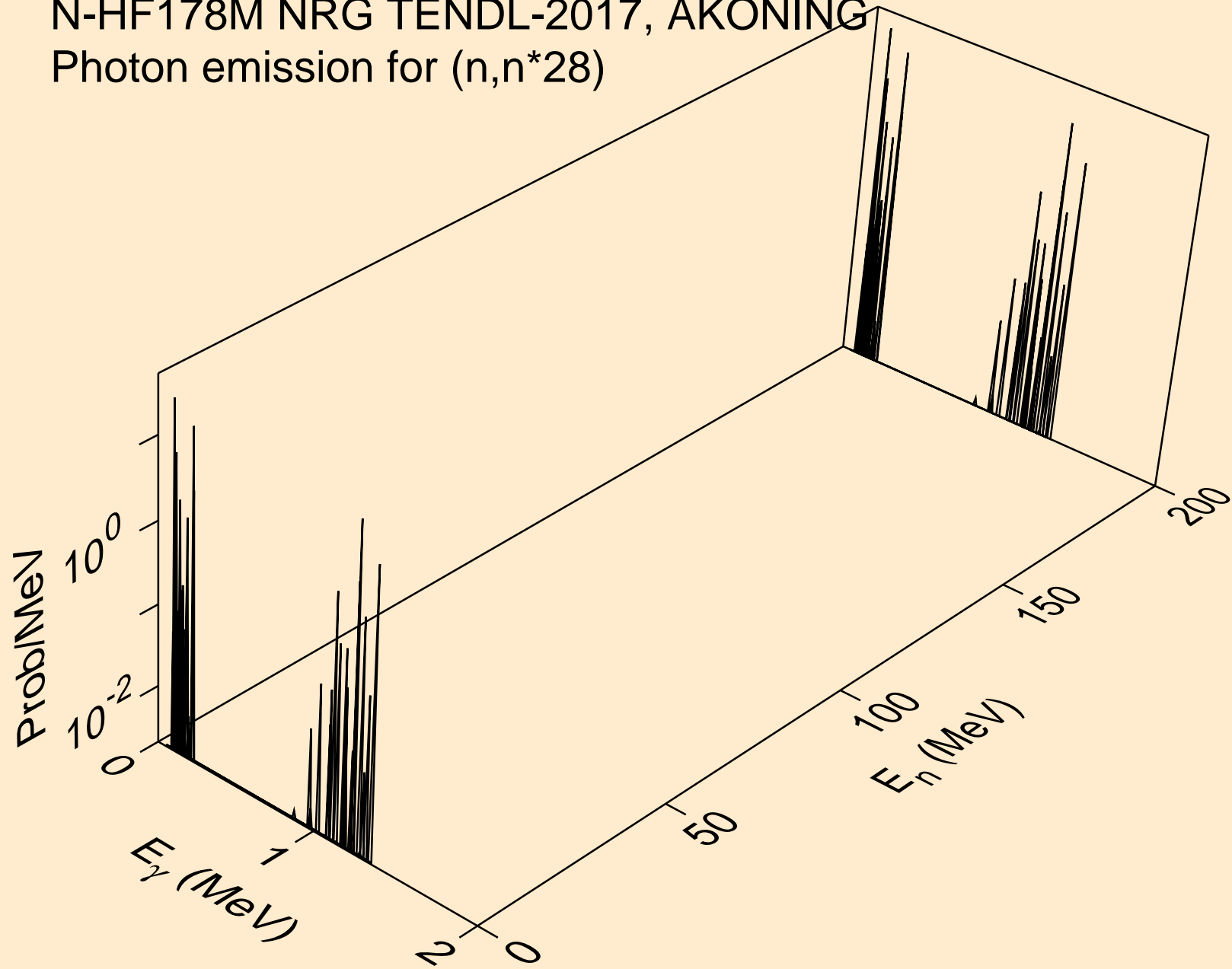
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Photon emission for (n,n\*26)



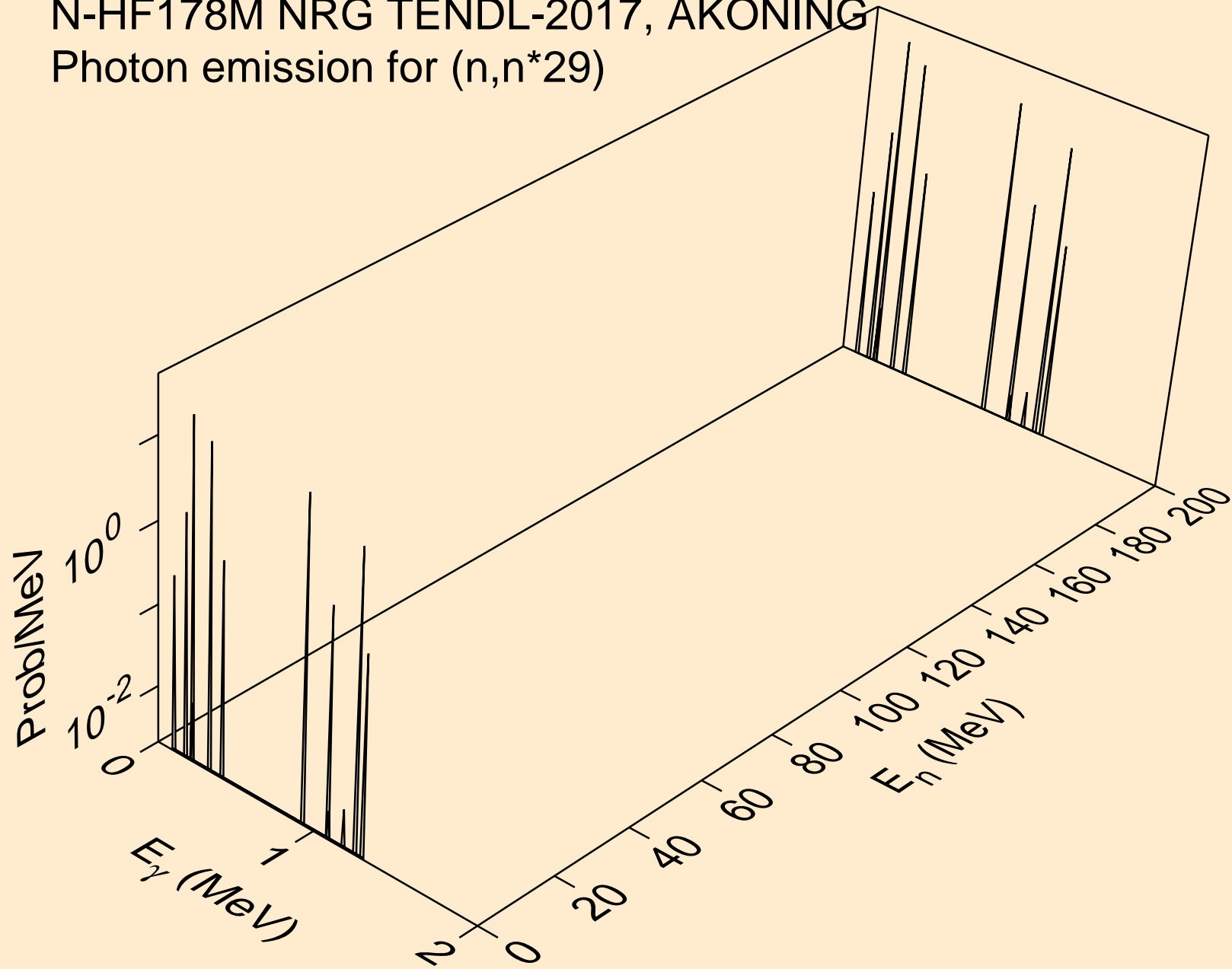
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Photon emission for (n,n\*27)



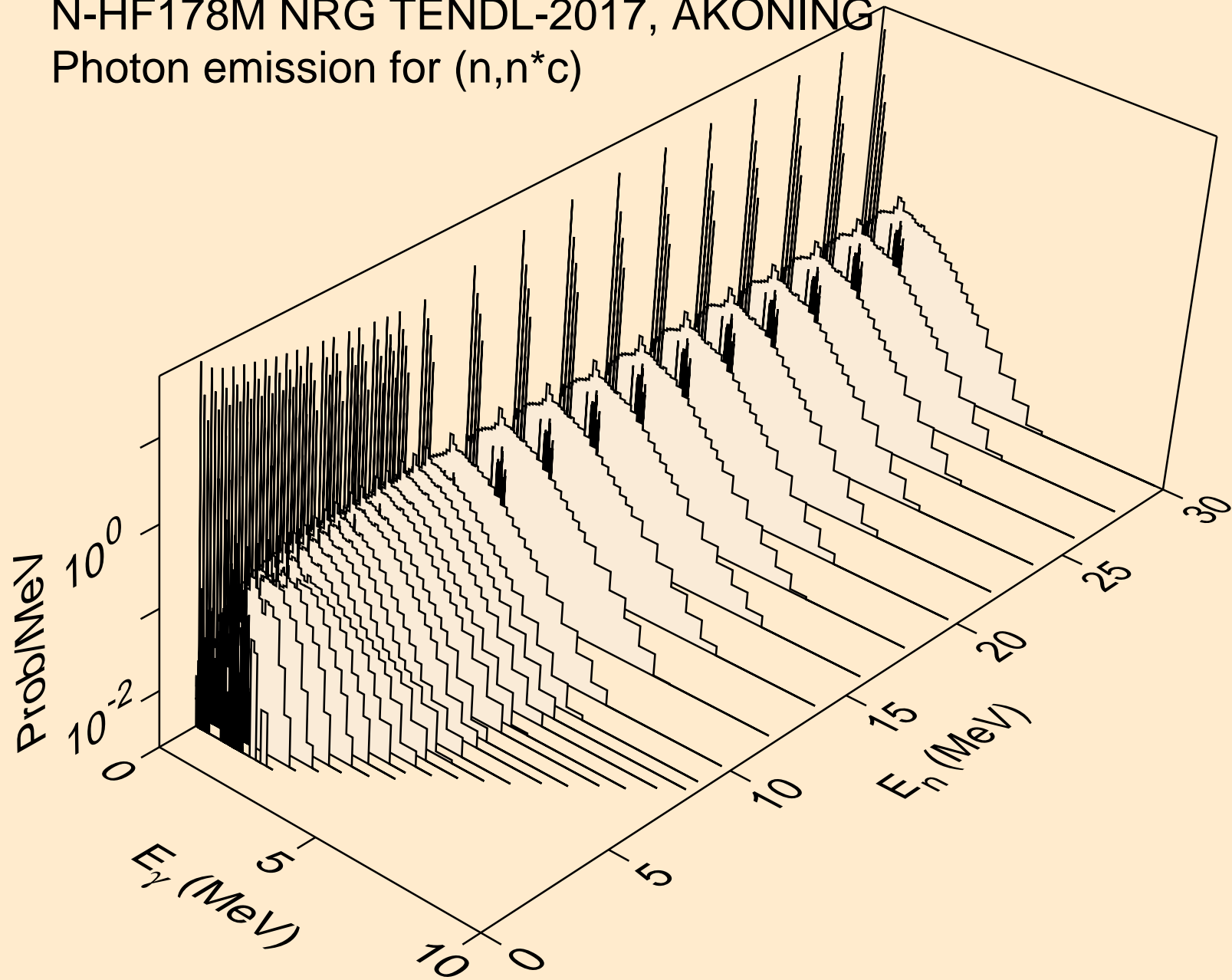
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Photon emission for (n,n\*28)



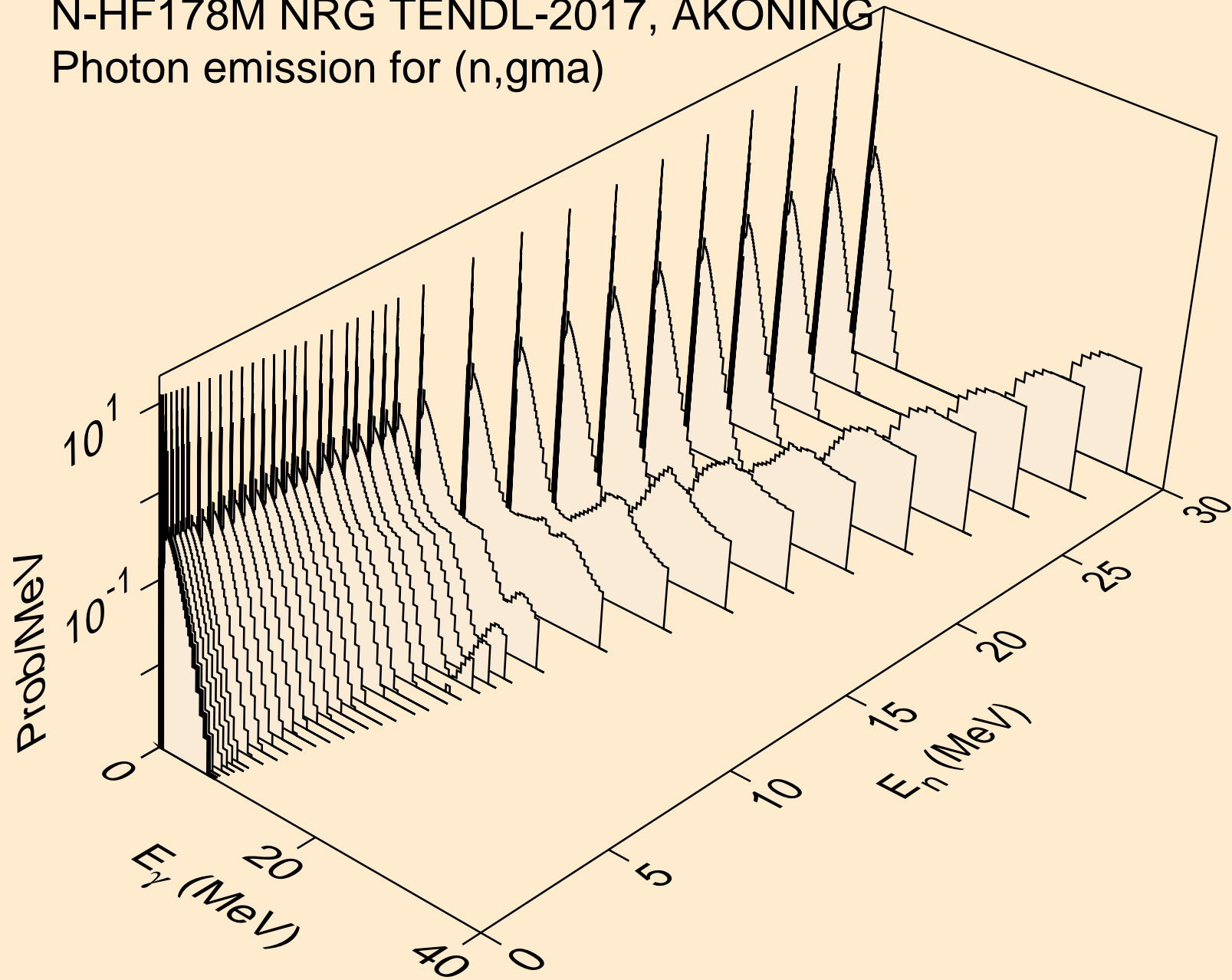
N-HF178M NRG TENDL-2017, AKONING  
Photon emission for (n,n\*29)



N-HF178M NRG TENDL-2017, AKONING  
Photon emission for (n,n\*c)

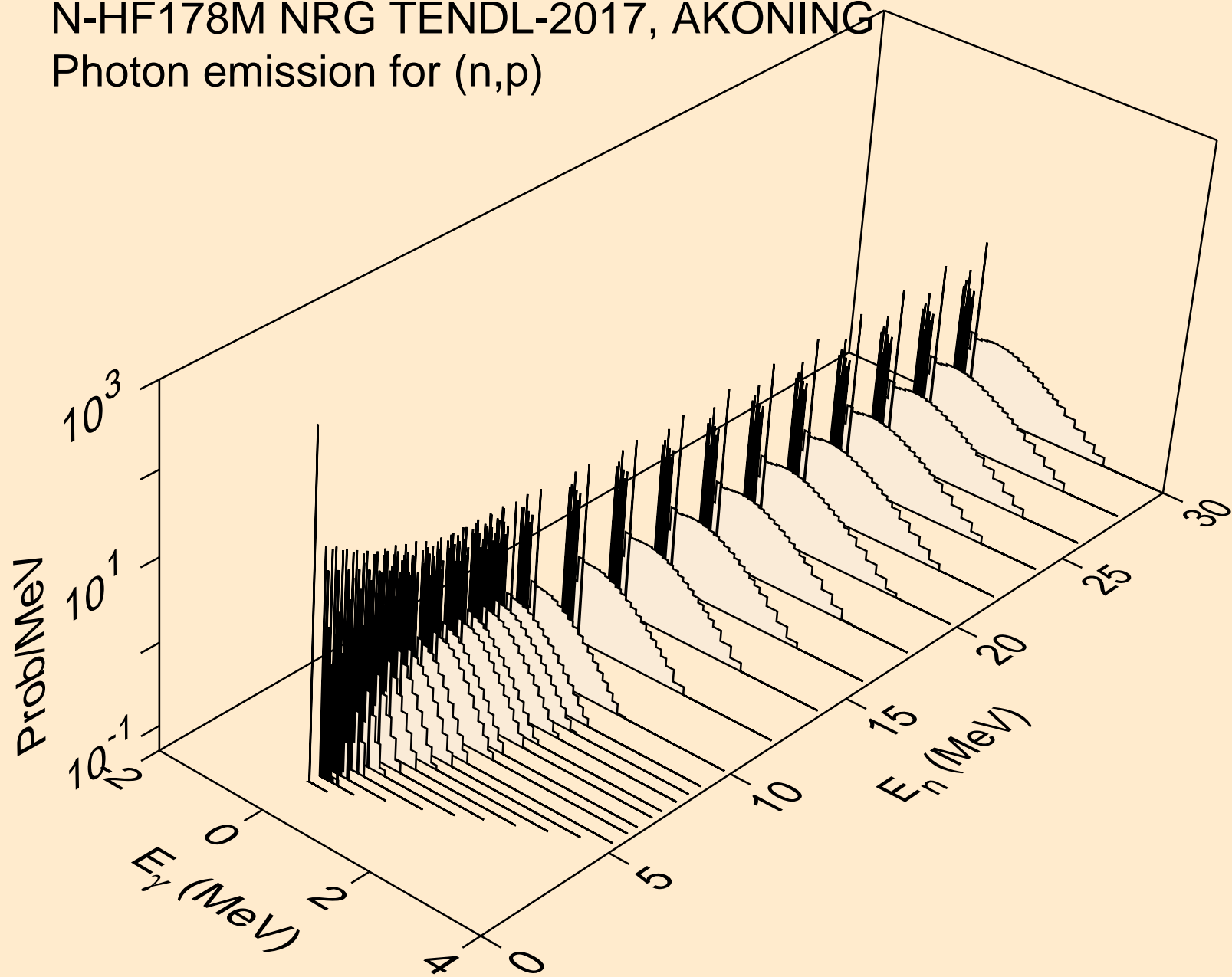


N-HF178M NRG TENDL-2017, AKONING  
Photon emission for (n,gma)

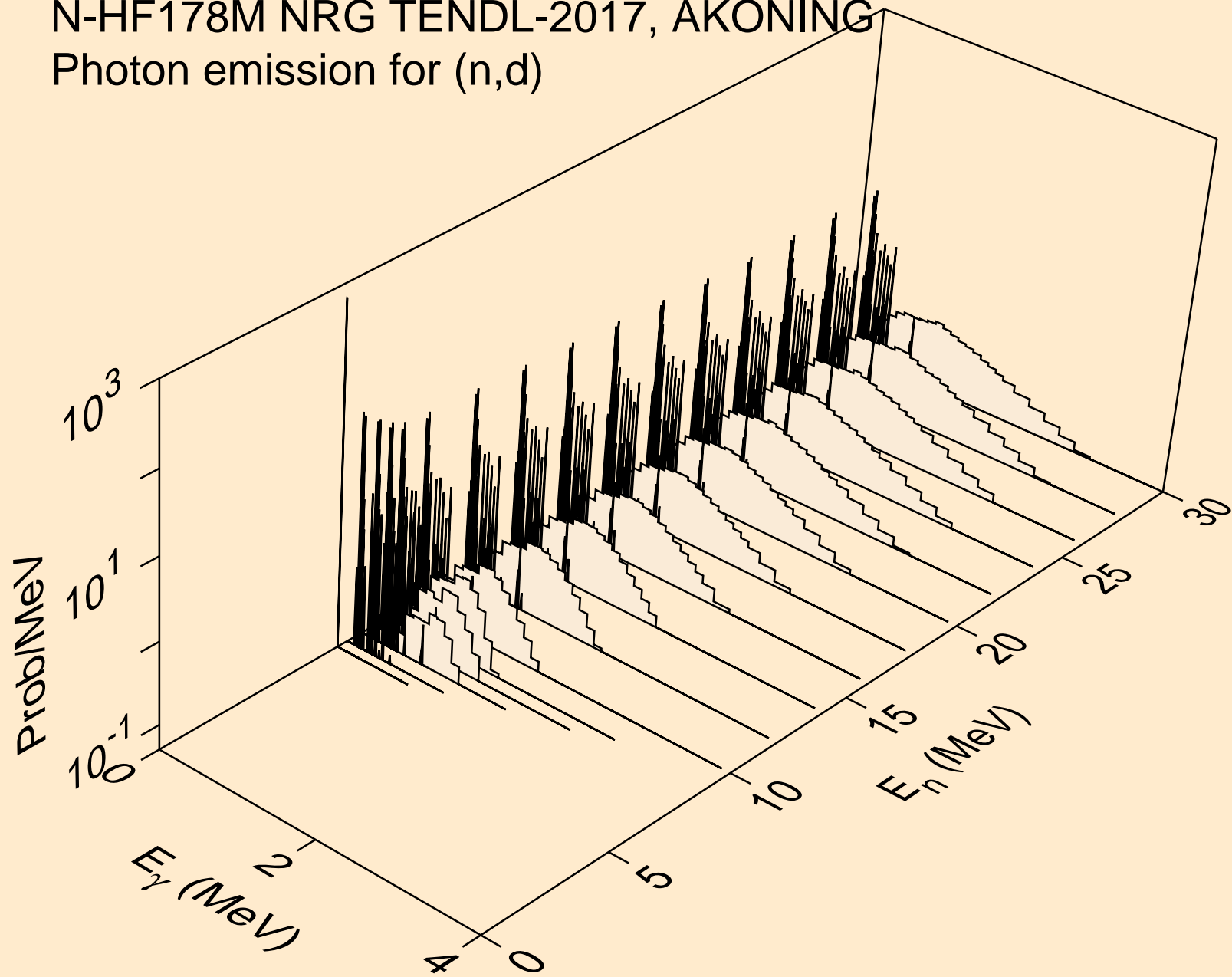




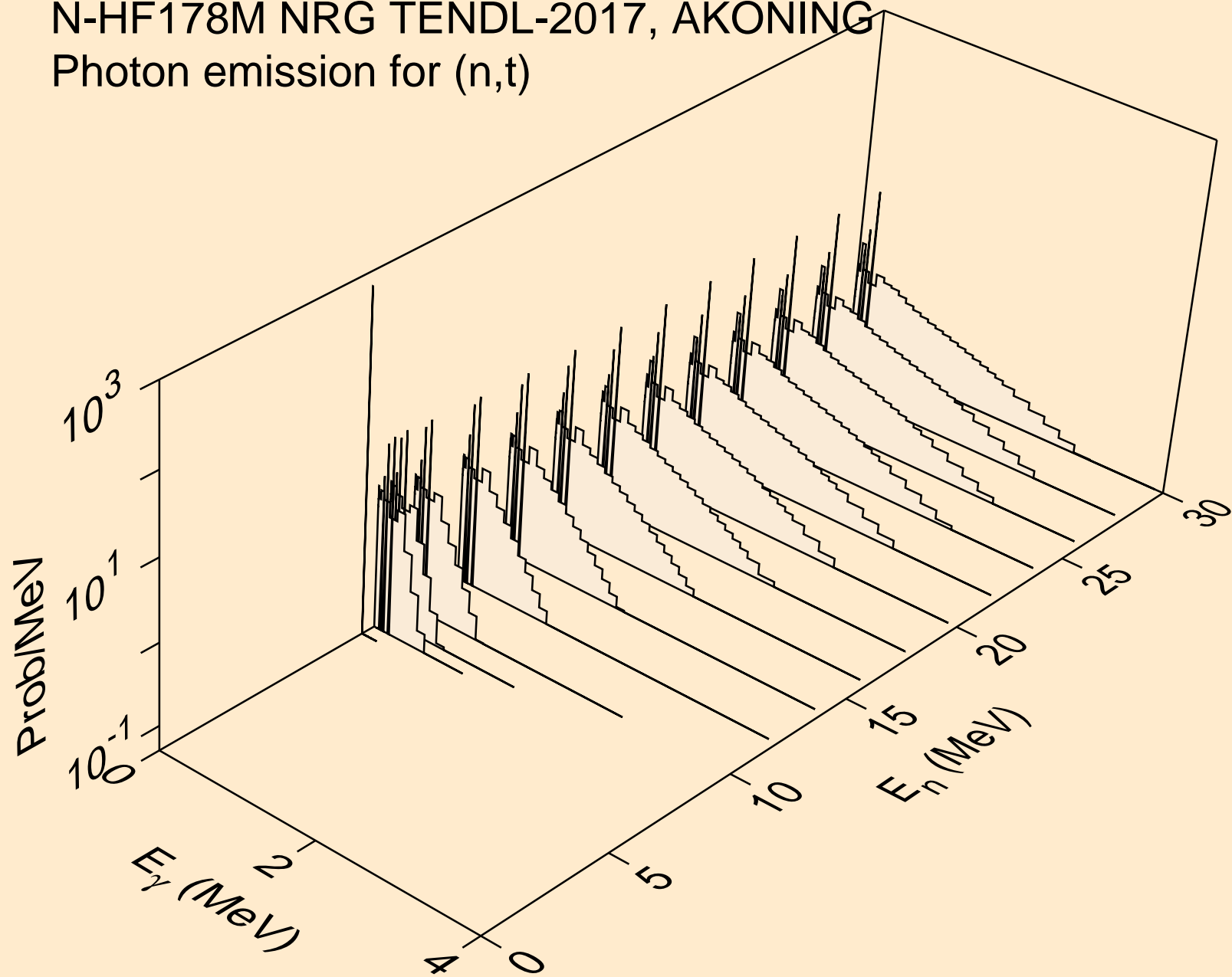
N-HF178M NRG TENDL-2017, AKONING  
Photon emission for (n,p)



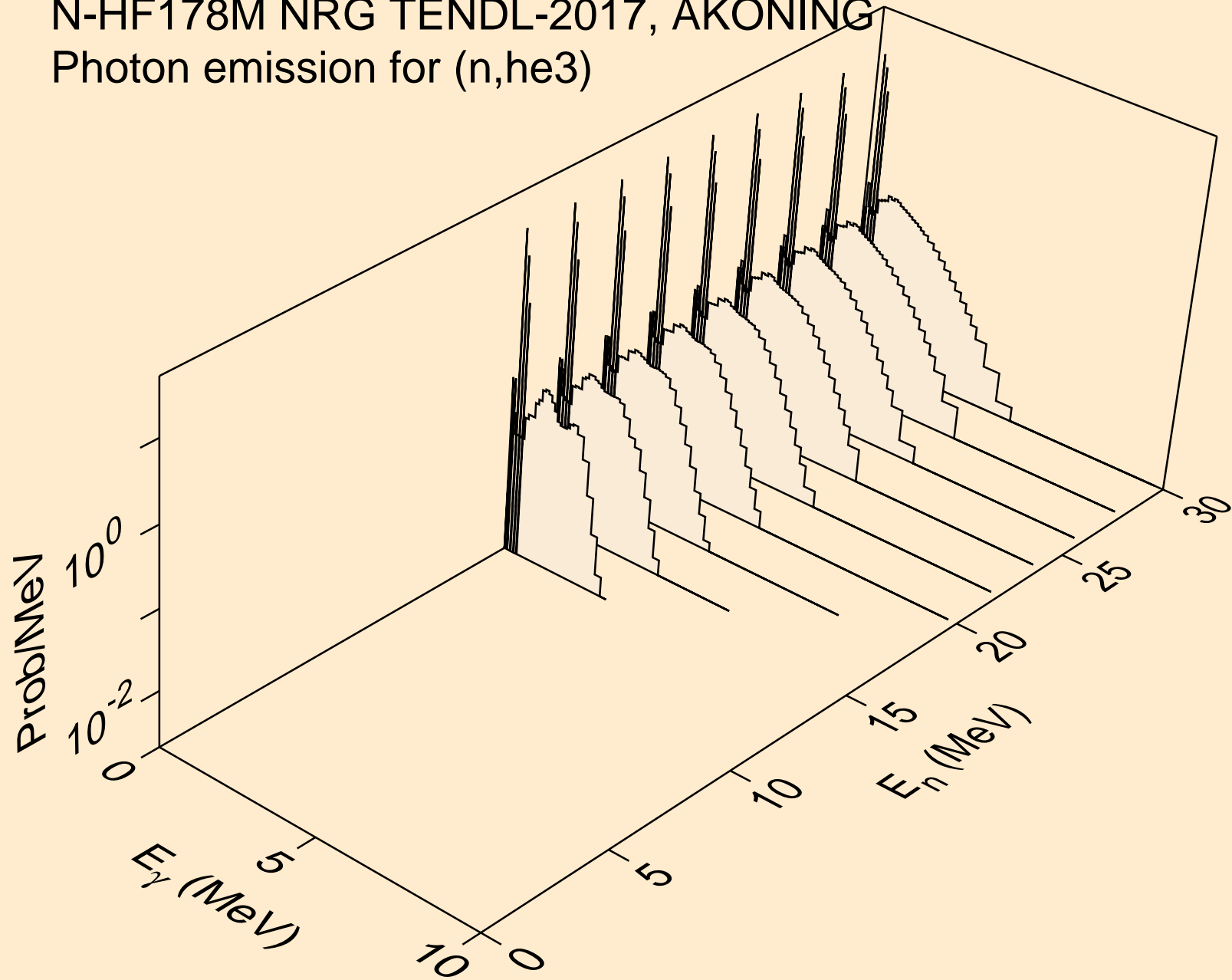
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Photon emission for (n,d)



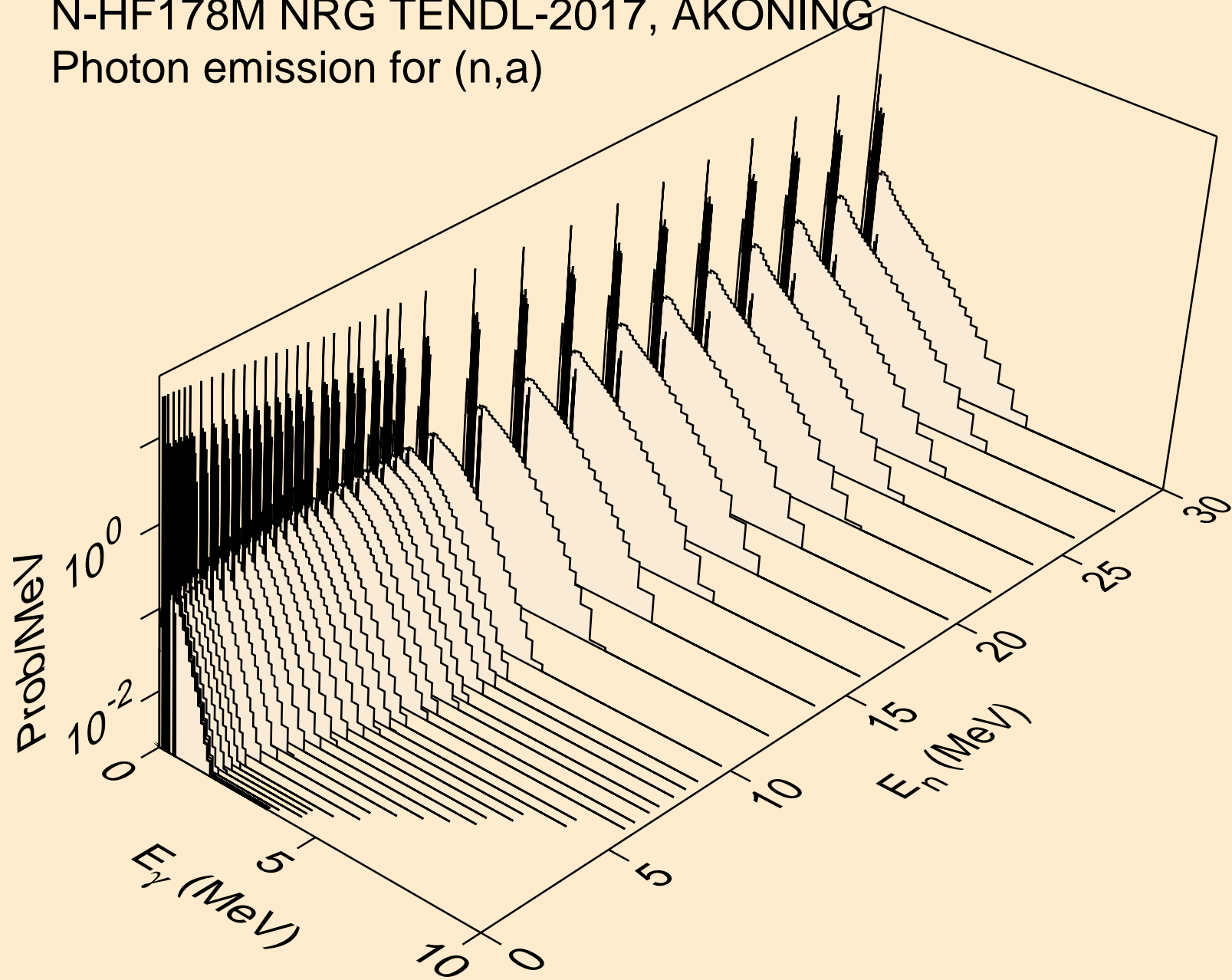
N-HF178M NRG TENDL-2017, AKONING  
Photon emission for (n,t)



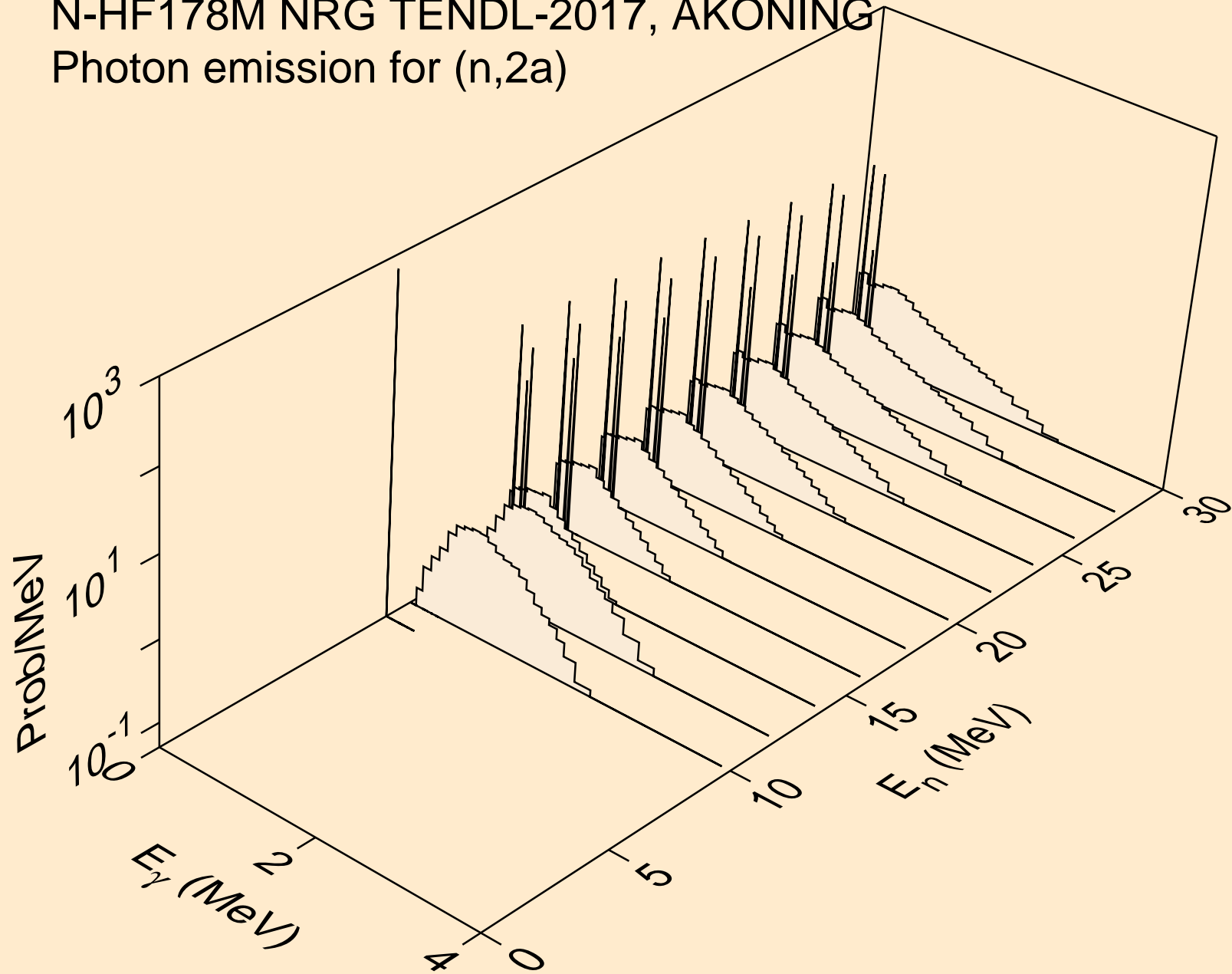
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Photon emission for (n,he3)



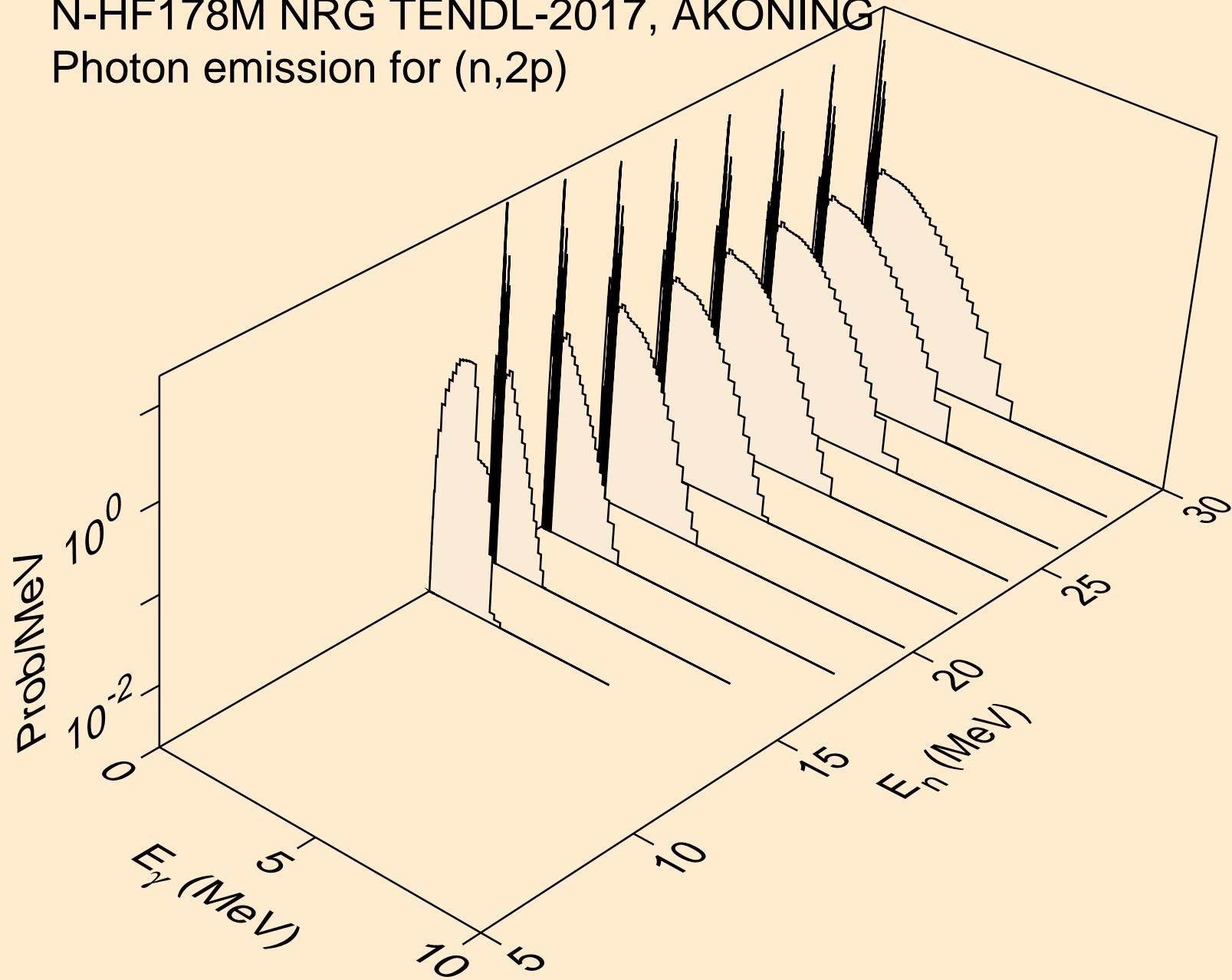
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Photon emission for (n,a)



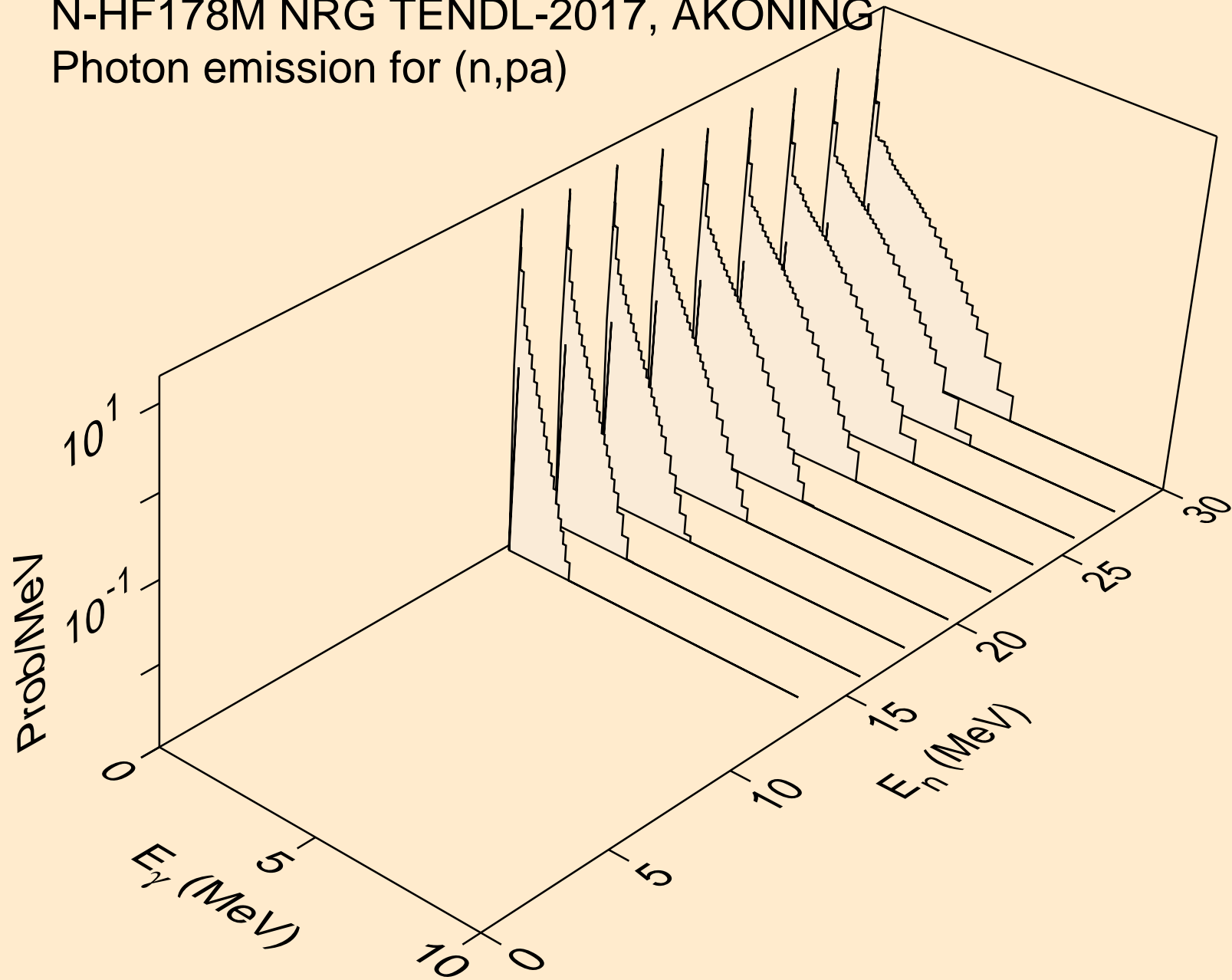
N-HF178M NRG TENDL-2017, AKONING  
Photon emission for (n,2a)



N-HF178M NRG TENDL-2017, AKONING  
Photon emission for (n,2p)

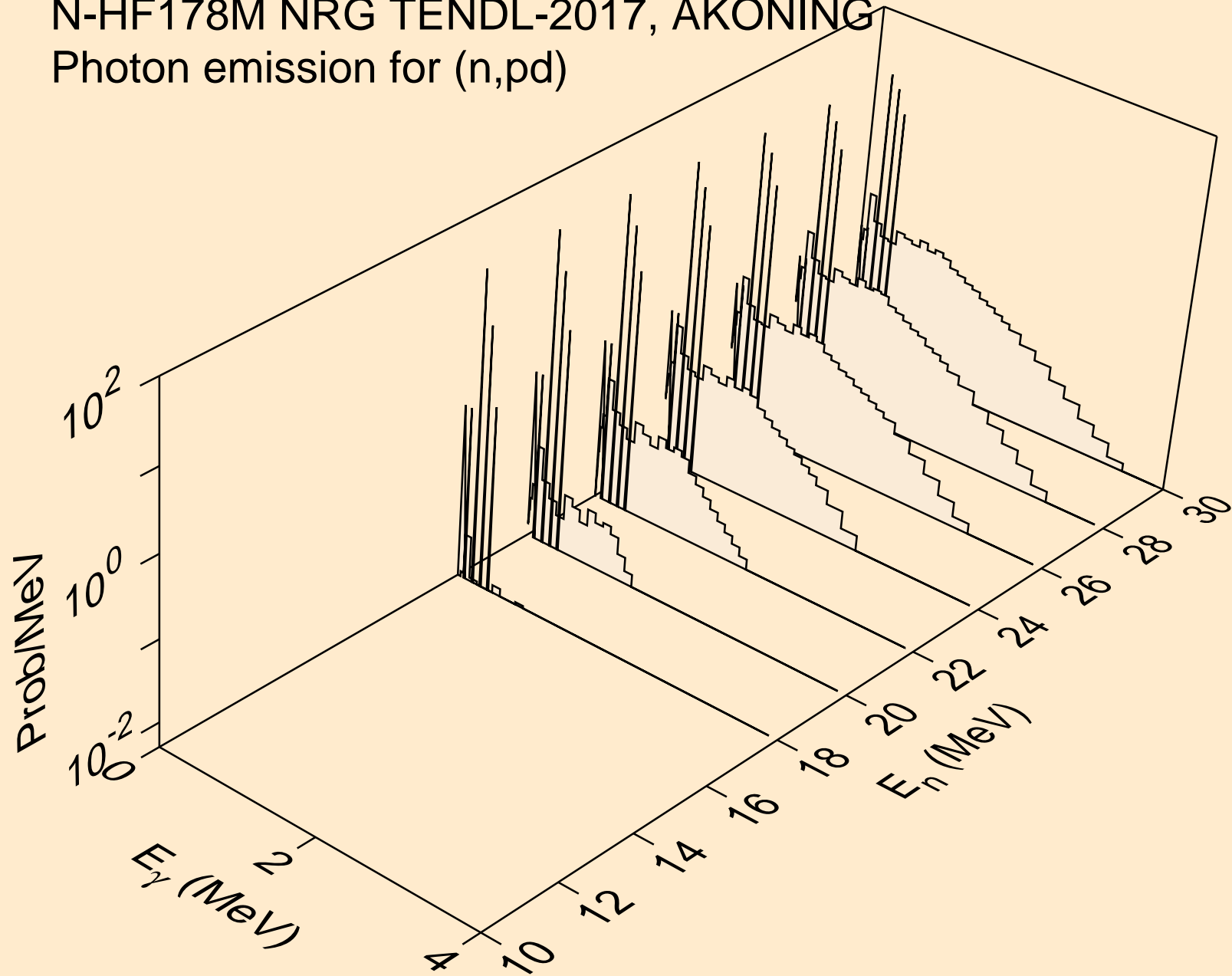


N-HF178M NRG TENDL-2017, AKONING  
Photon emission for (n,pa)

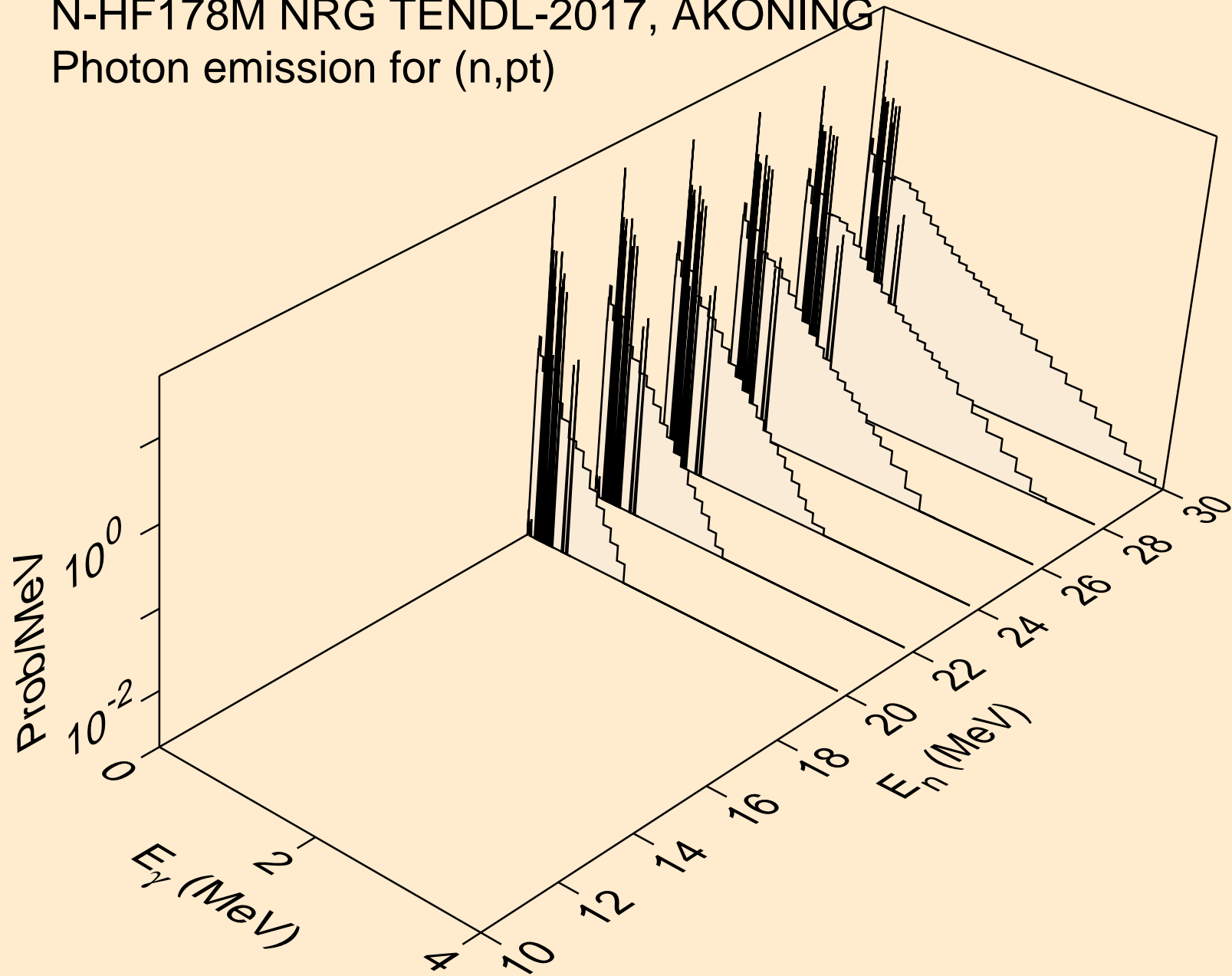




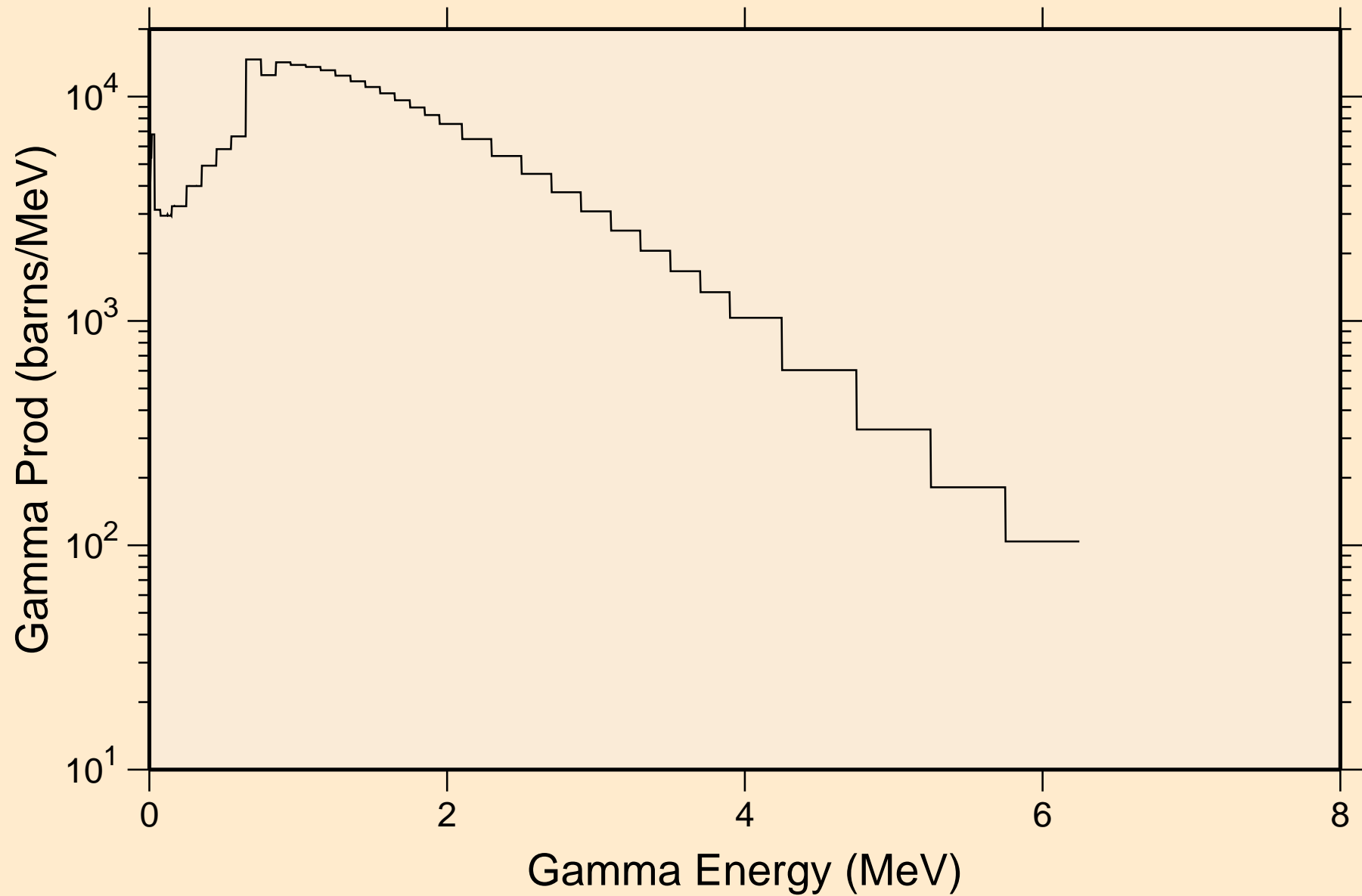
N-HF178M NRG TENDL-2017, AKONING  
Photon emission for (n,pd)



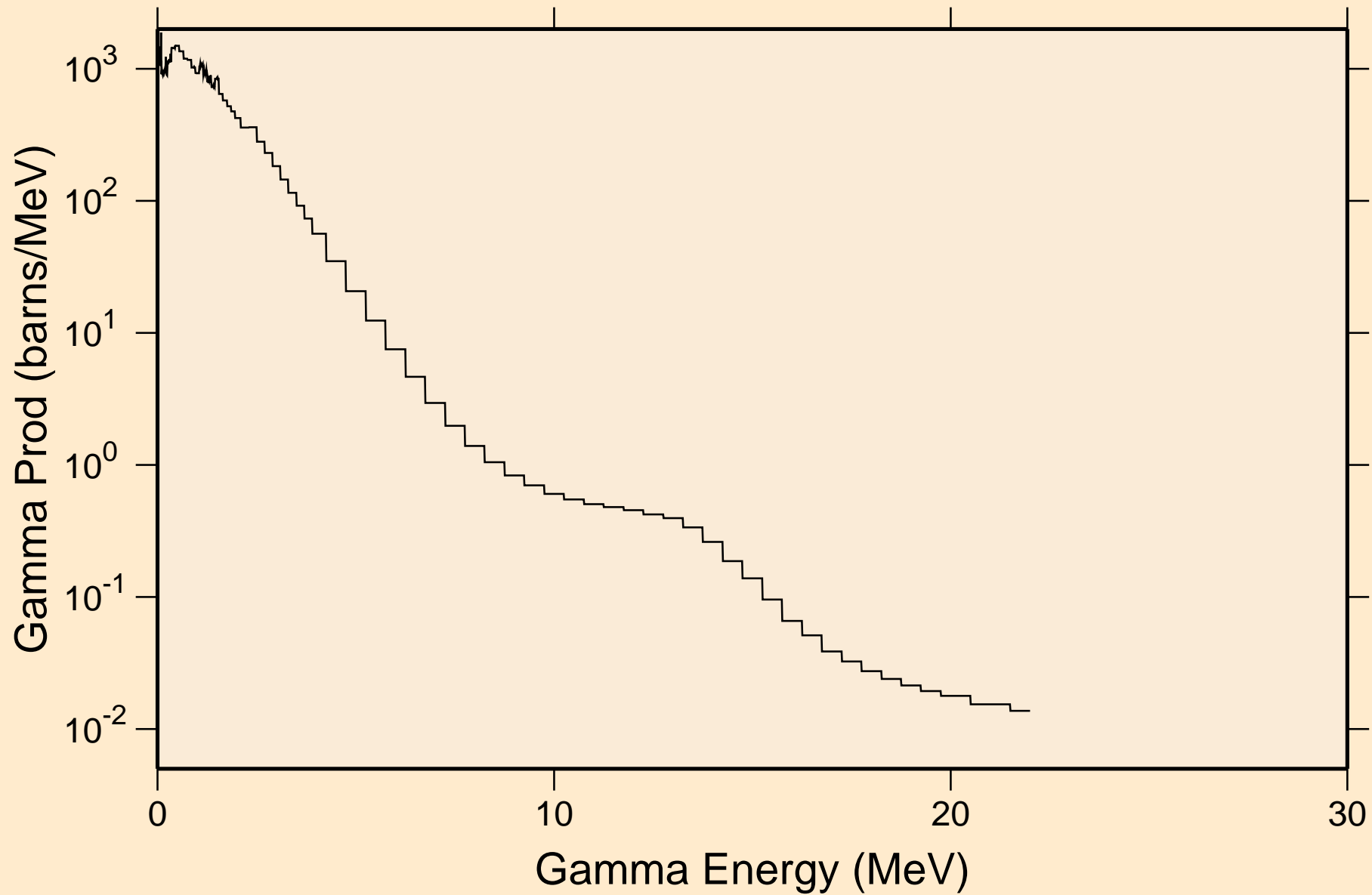
N-HF178M NRG TENDL-2017, AKONING  
Photon emission for (n,pt)



N-HF178M NRG TENDL-2017, AKONING  
thermal capture photon spectrum

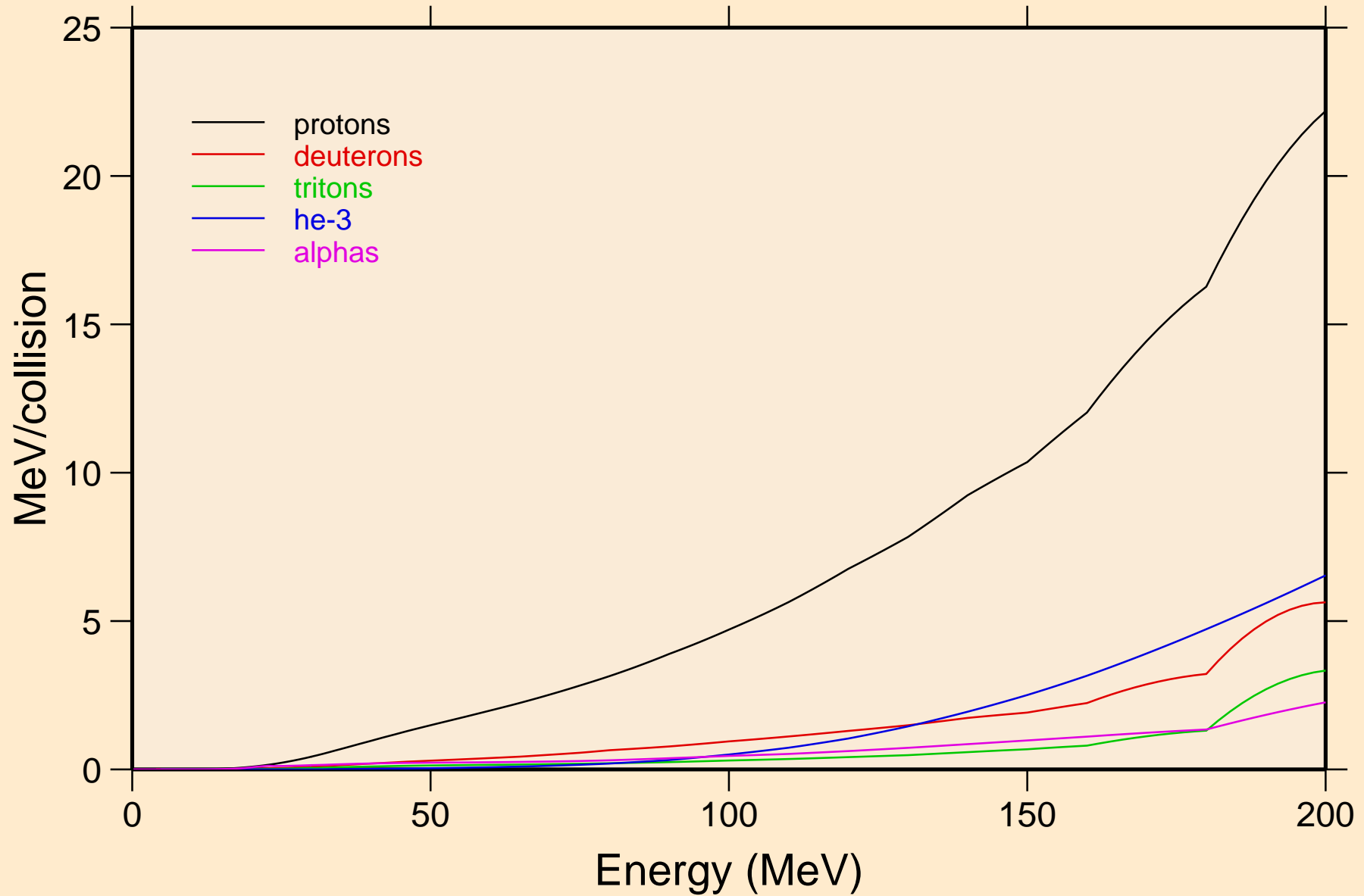


N-HF178M NRG TENDL-2017, AKONING  
14 MeV photon spectrum



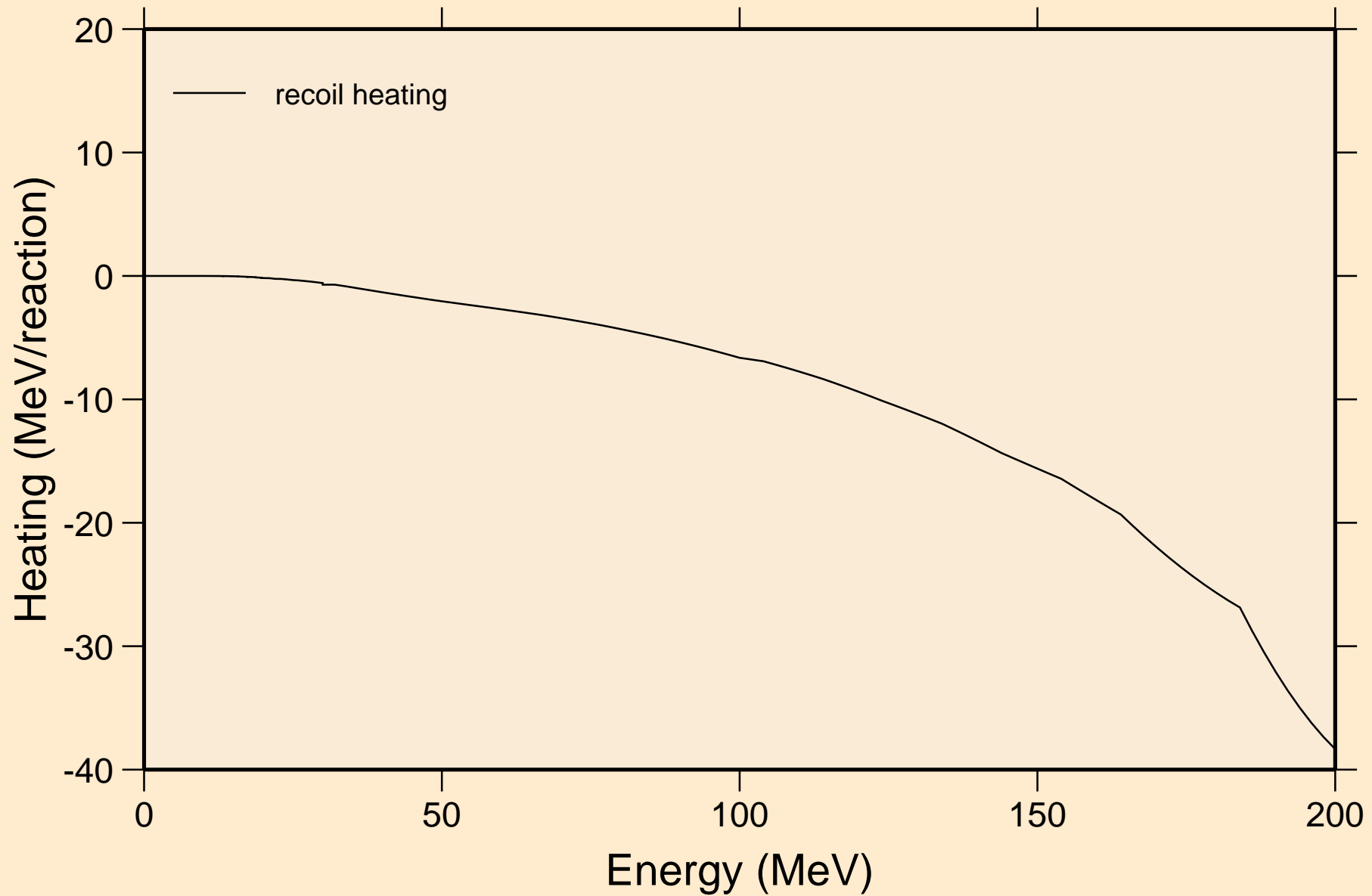
# N-HF178M NRG TENDL-2017, AKONING

## Particle heating contributions



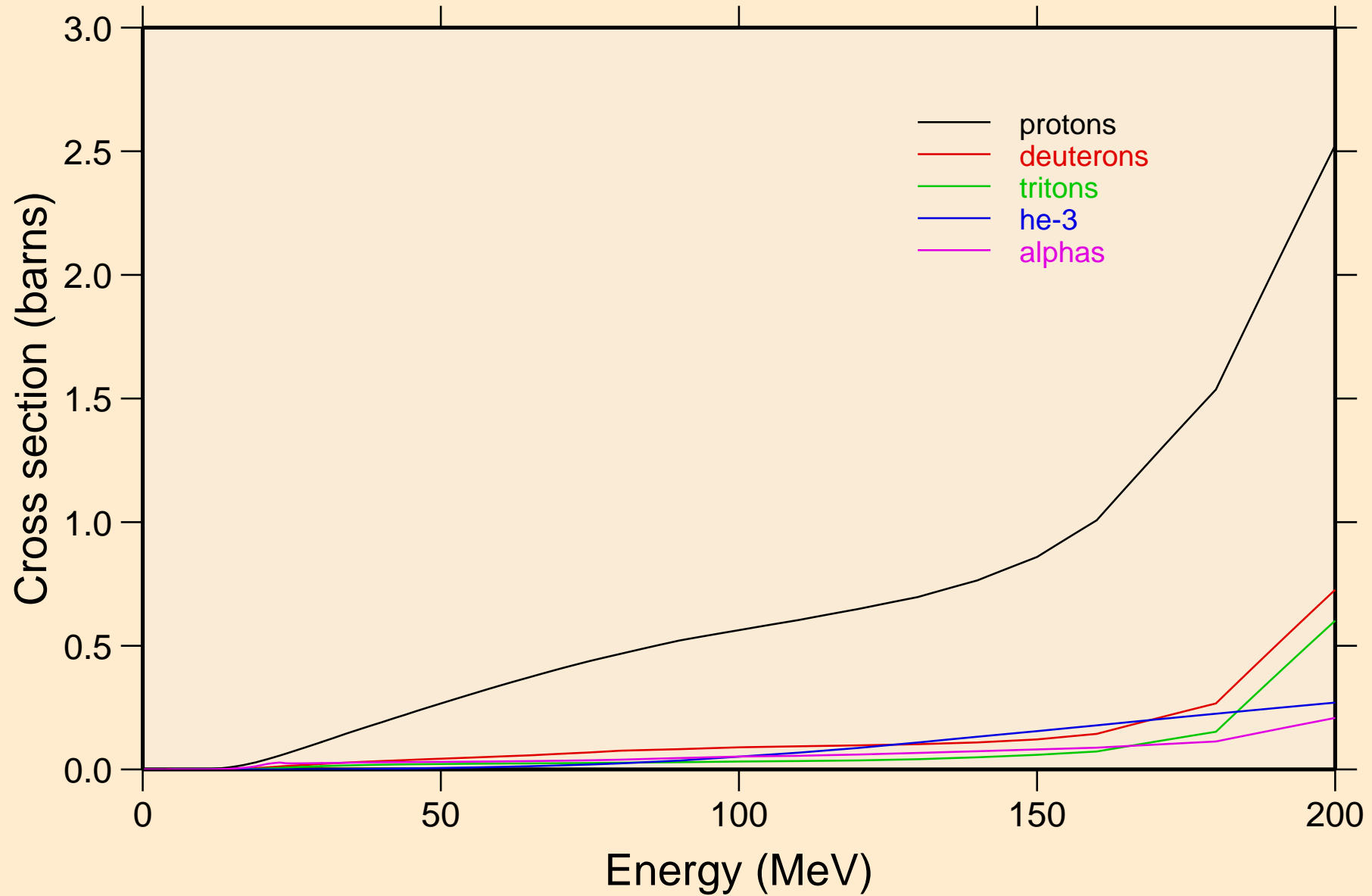
# N-HF178M NRG TENDL-2017, AKONING

## Recoil Heating

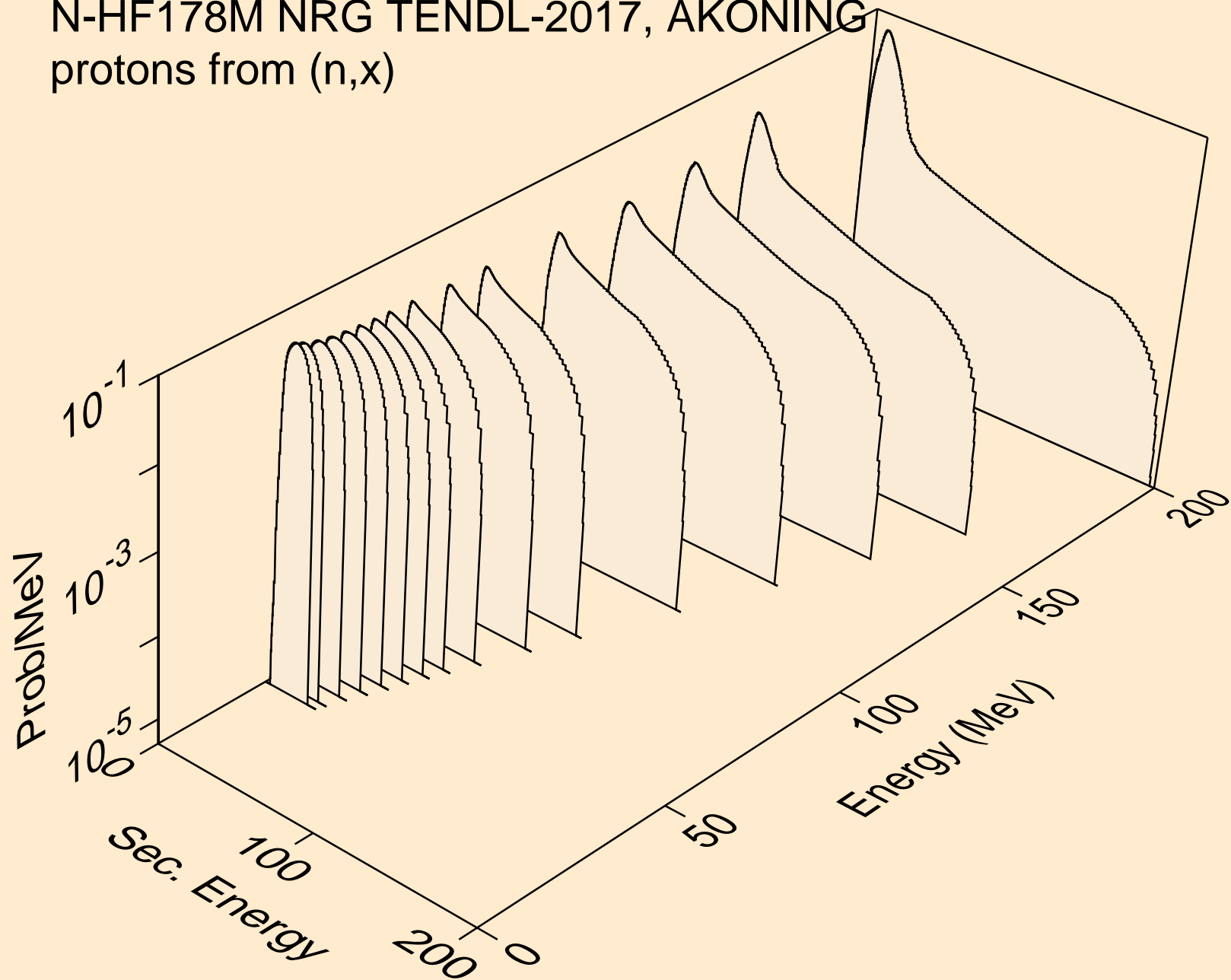


# N-HF178M NRG TENDL-2017, AKONING

## Particle production cross sections

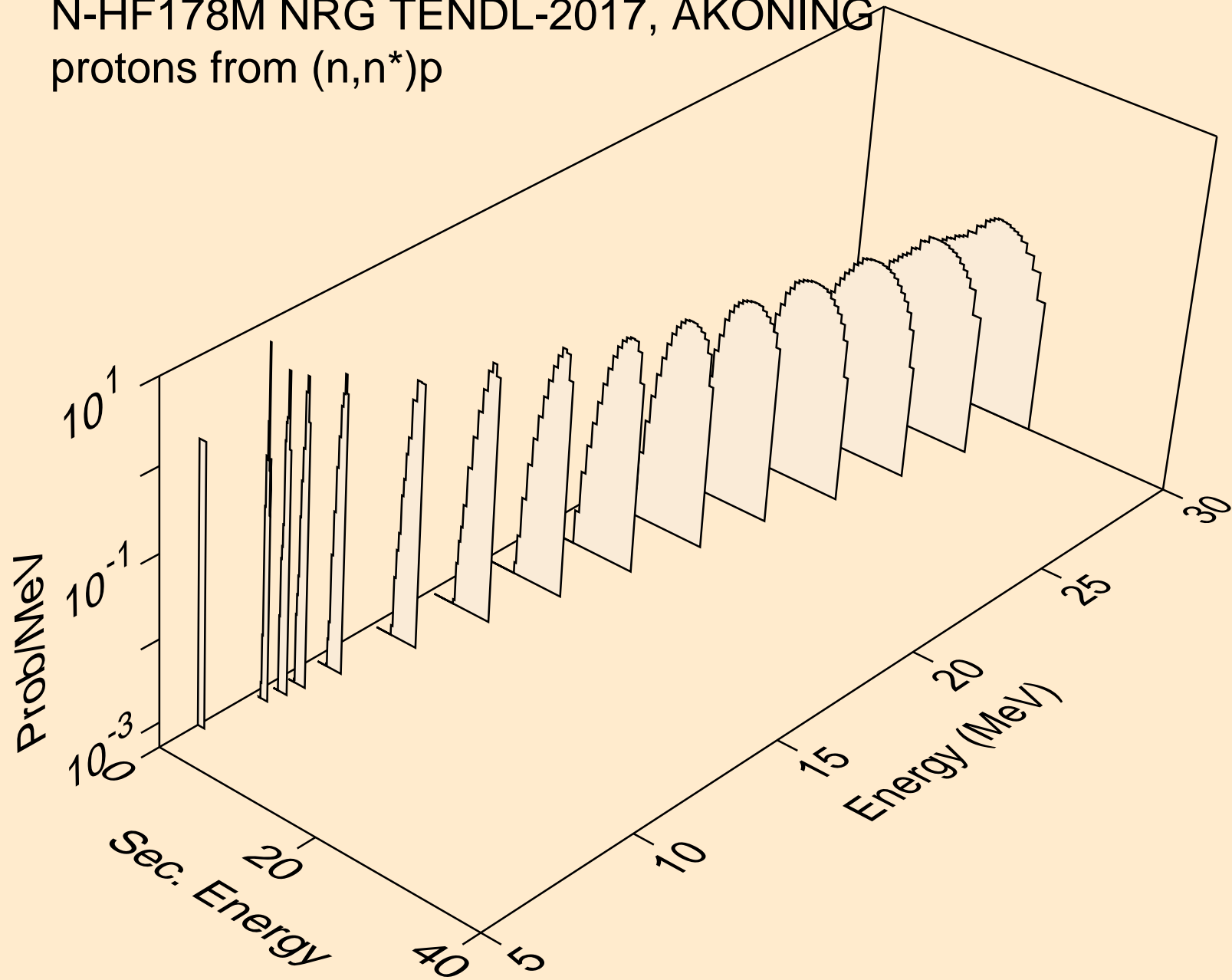


N-HF178M NRG TENDL-2017, AKONING  
protons from (n,x)

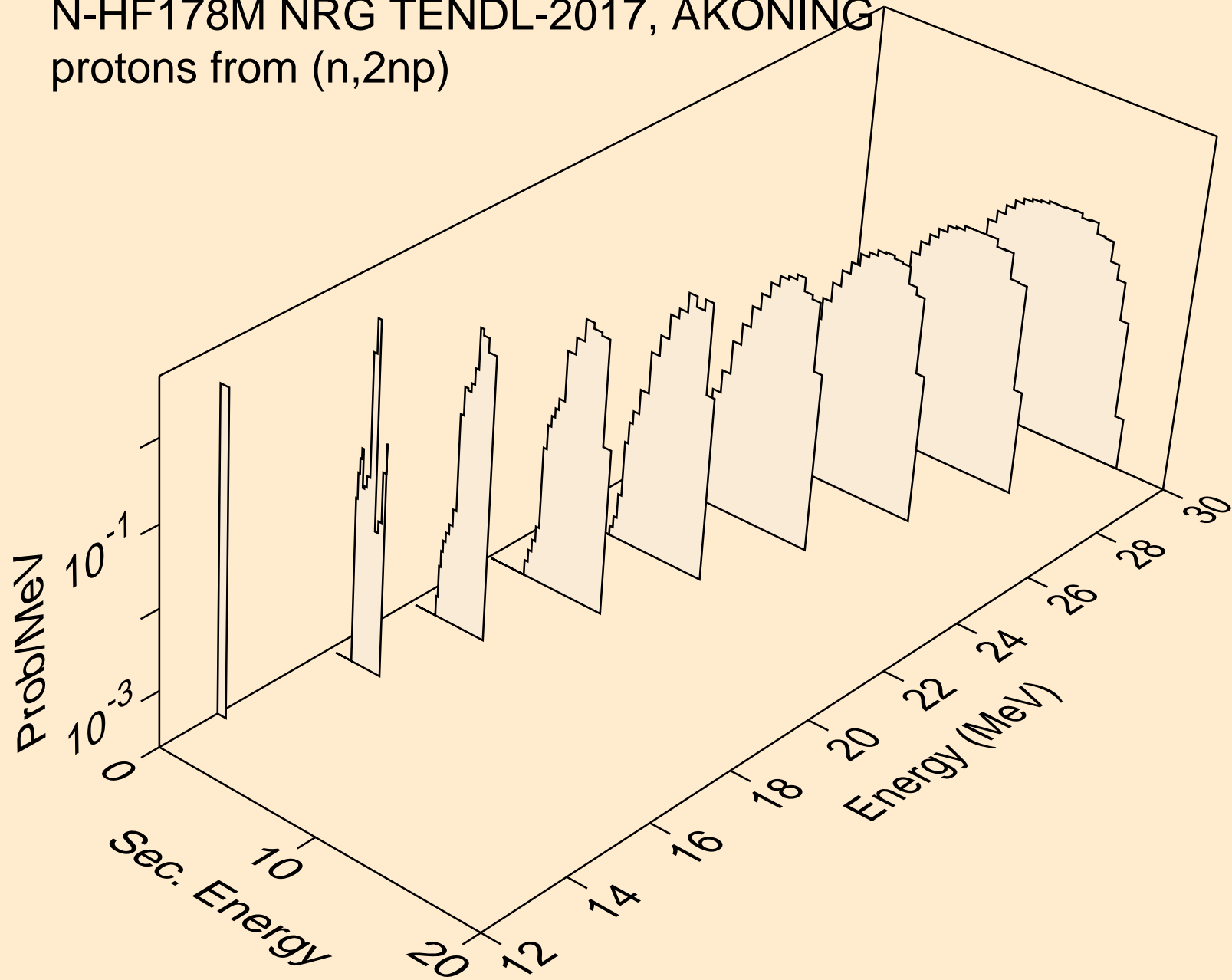




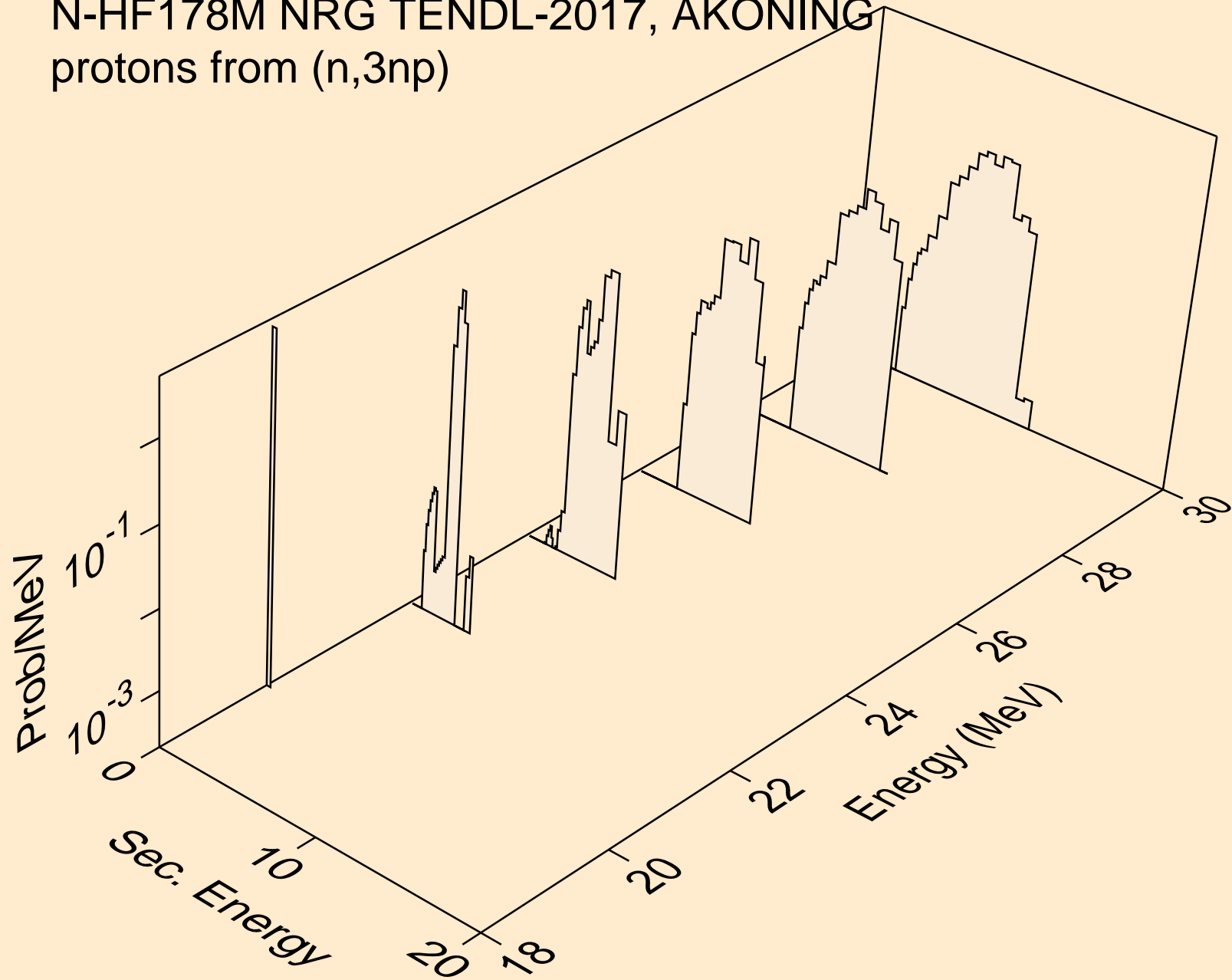
N-HF178M NRG TENDL-2017, AKONING  
protons from (n,n\*)p



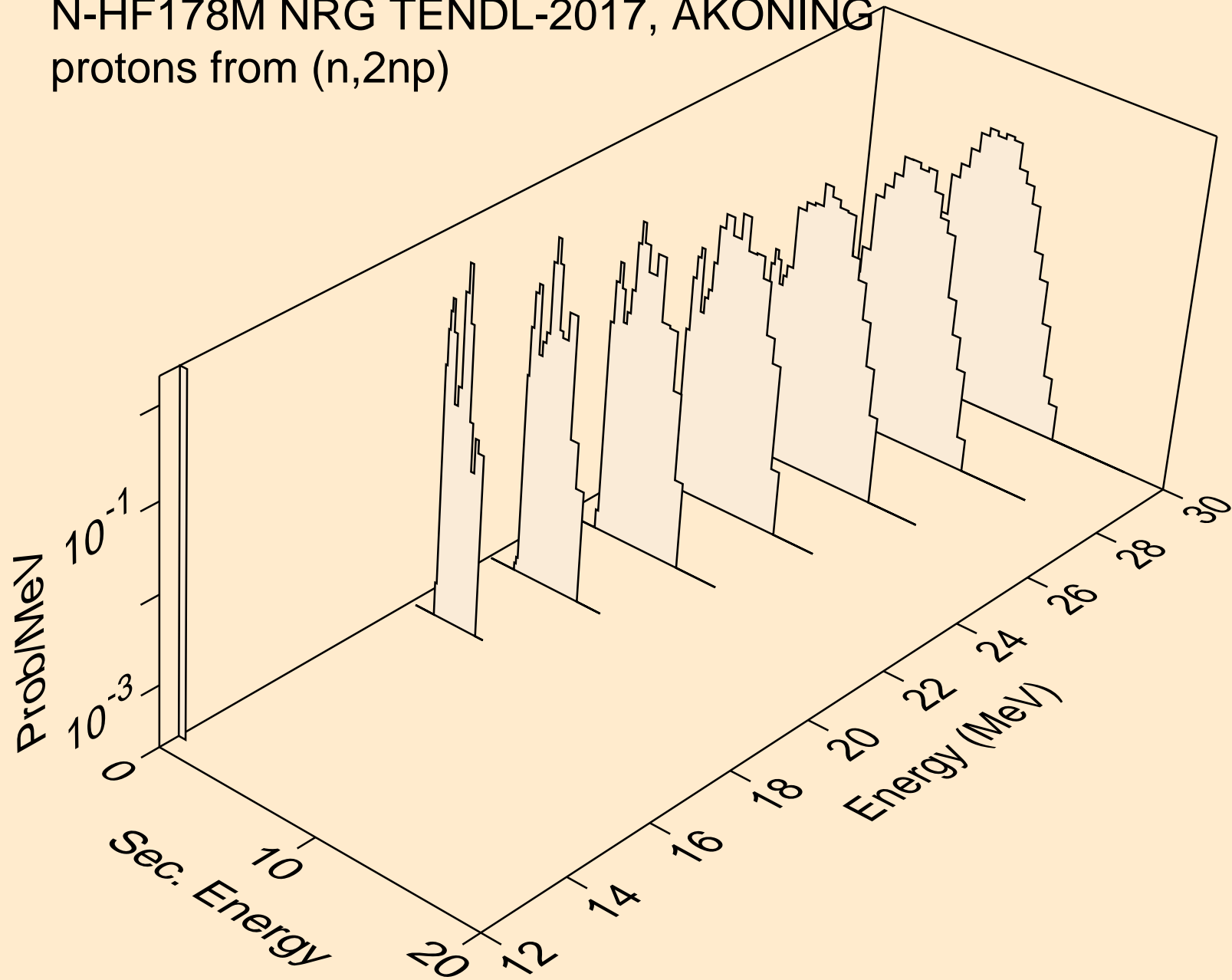
N-HF178M NRG TENDL-2017, AKONING  
protons from (n,2np)



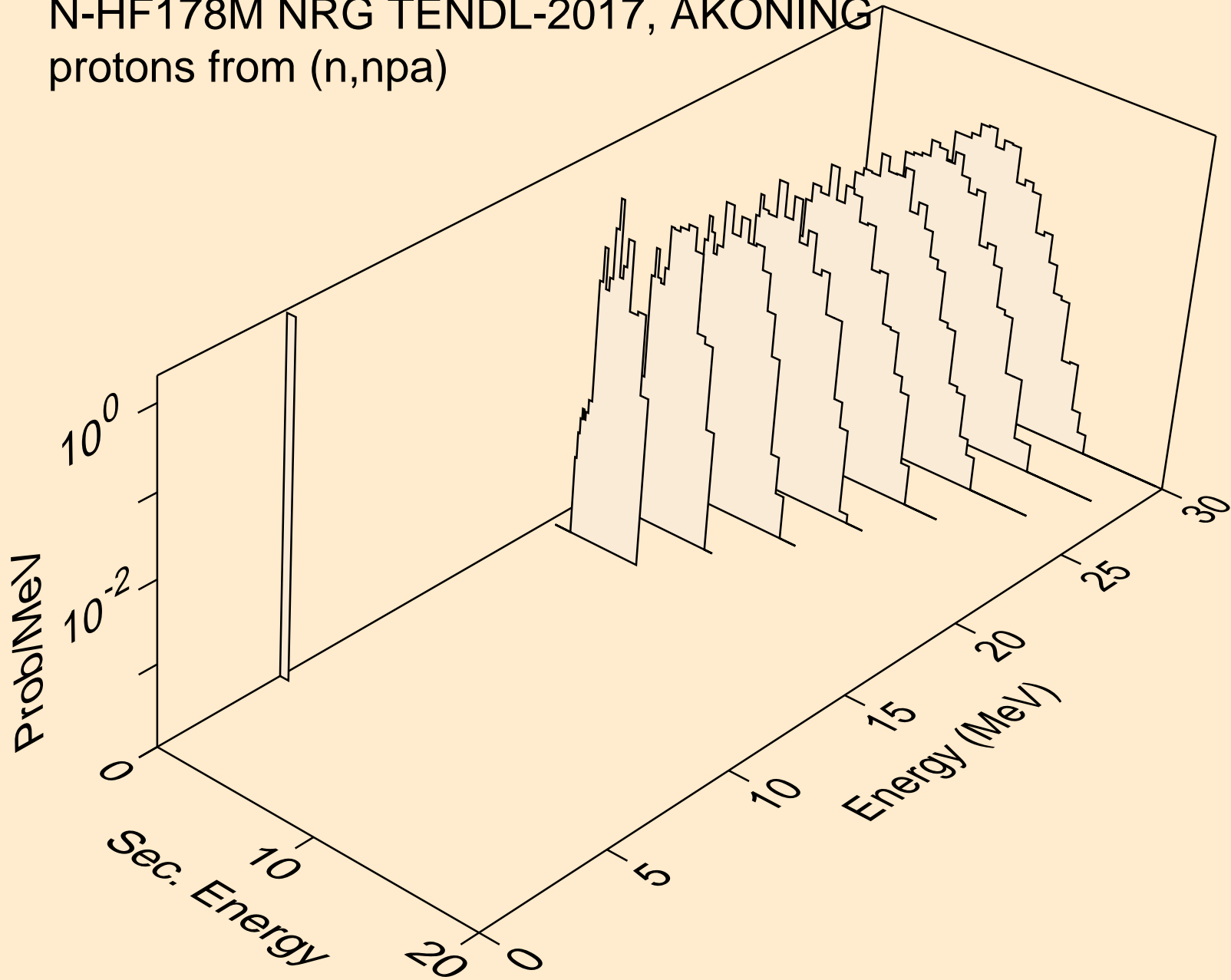
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protons from (n,3np)



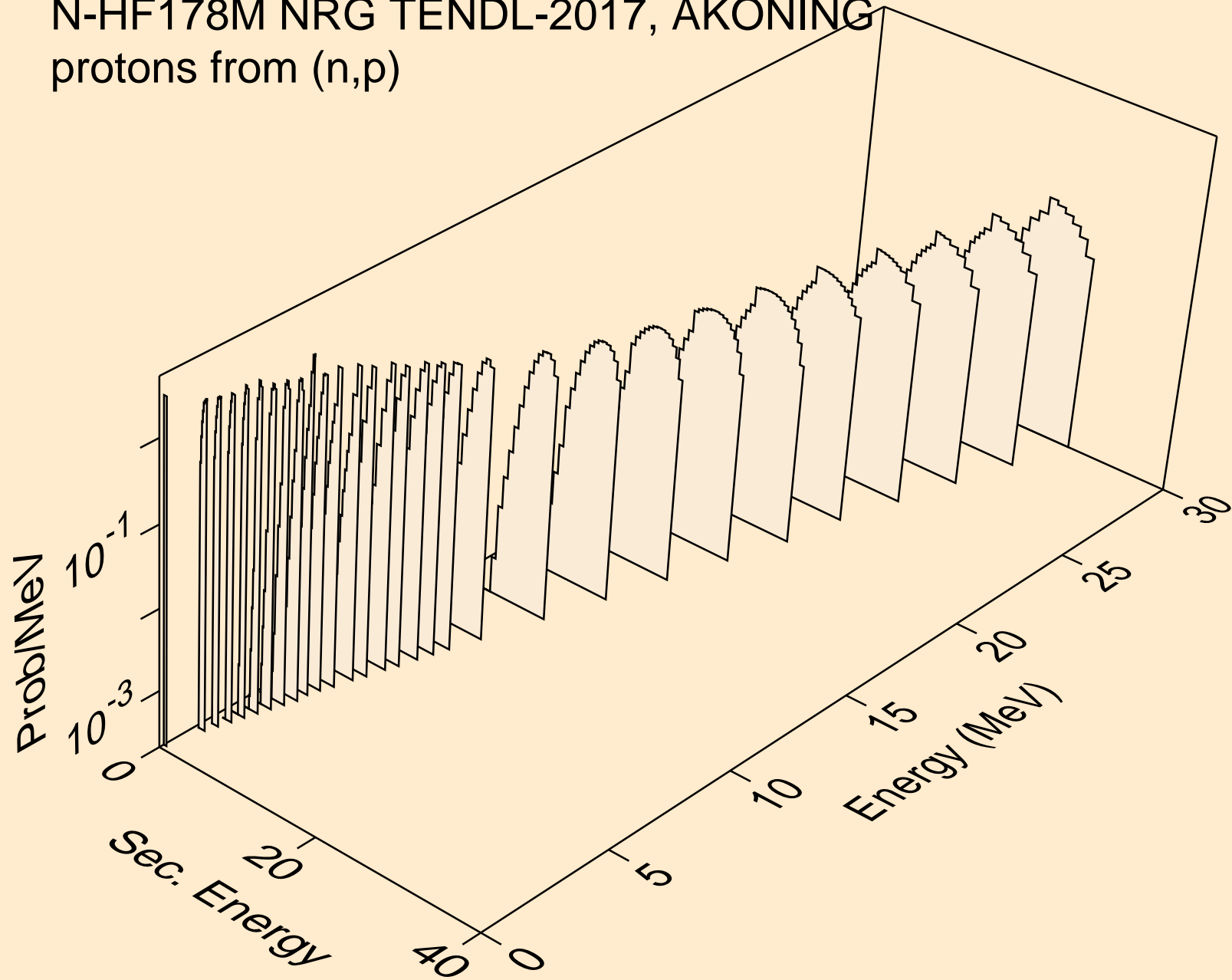
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protons from (n,2np)



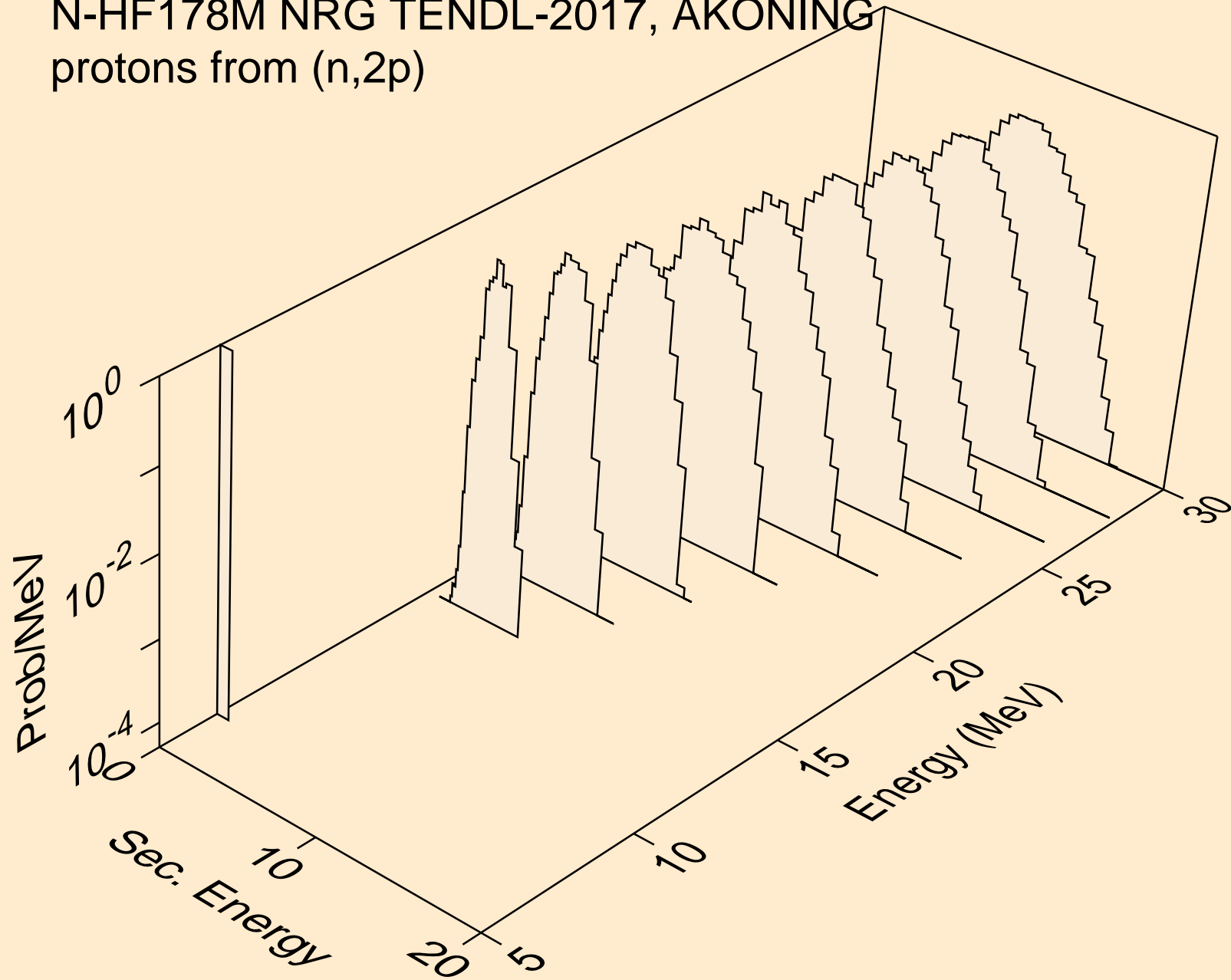
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protons from (n,npa)



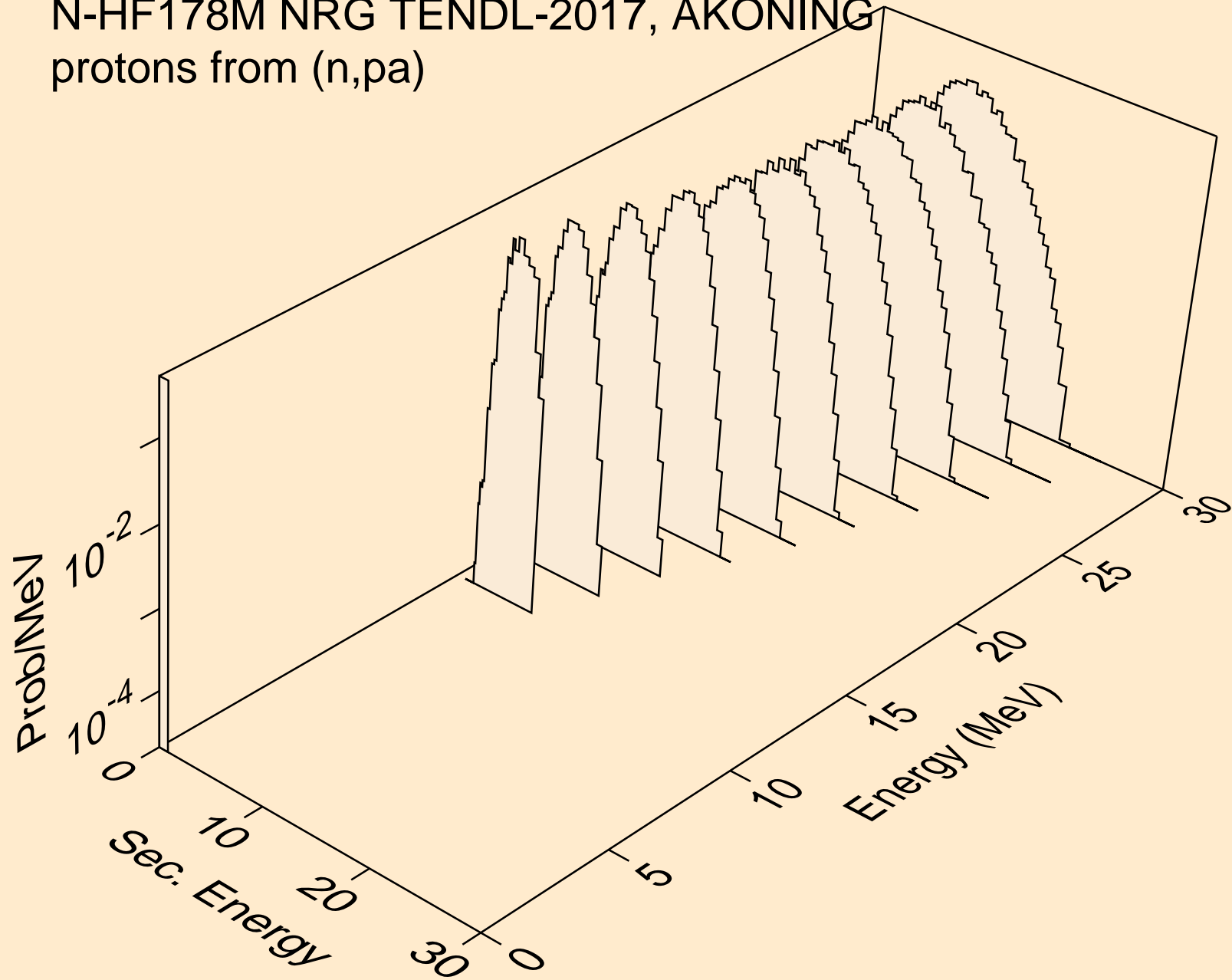
N-HF178M NRG TENDL-2017, AKONING  
protons from (n,p)



N-HF178M NRG TENDL-2017, AKONING  
protons from (n,2p)

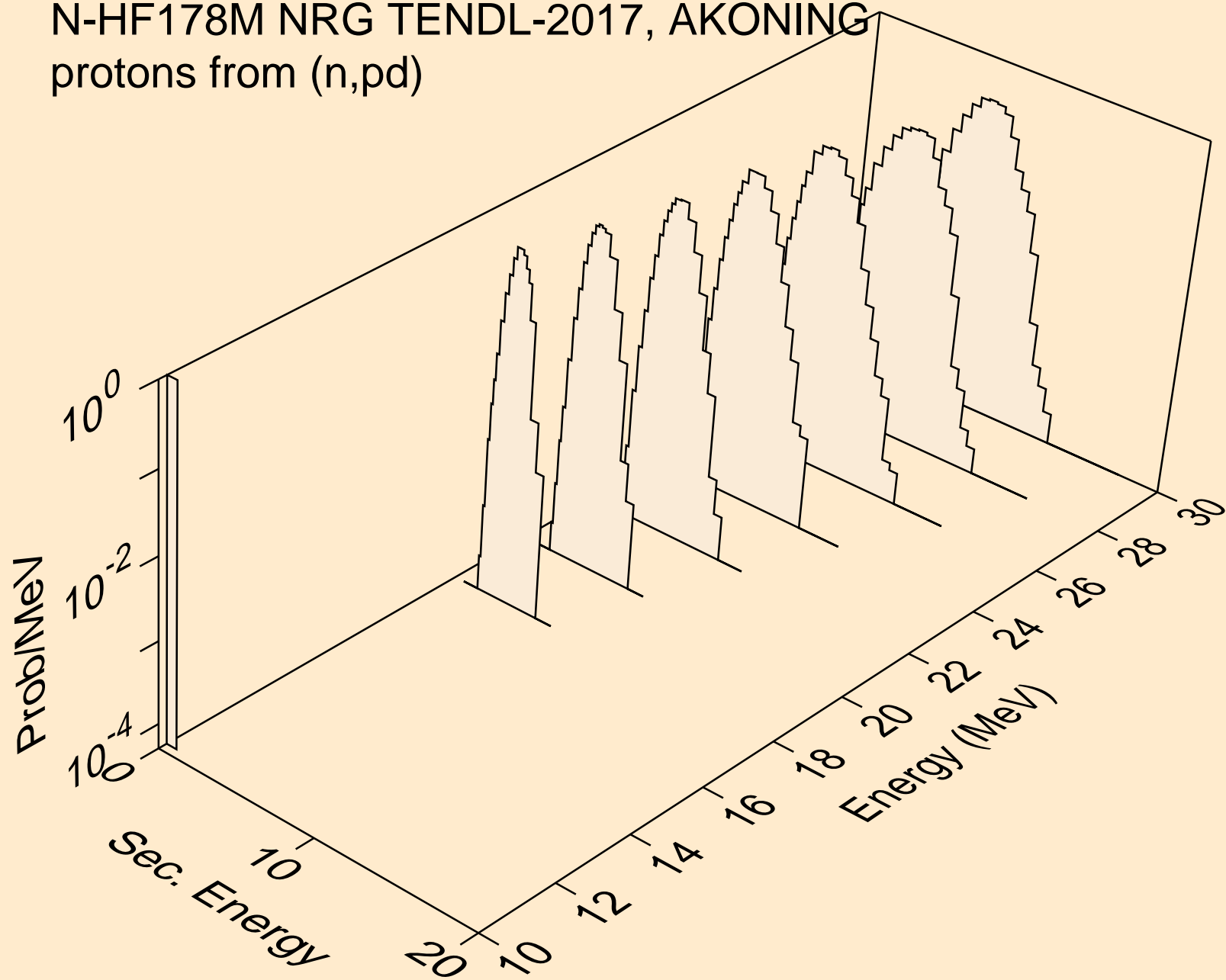


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protons from (n,pa)

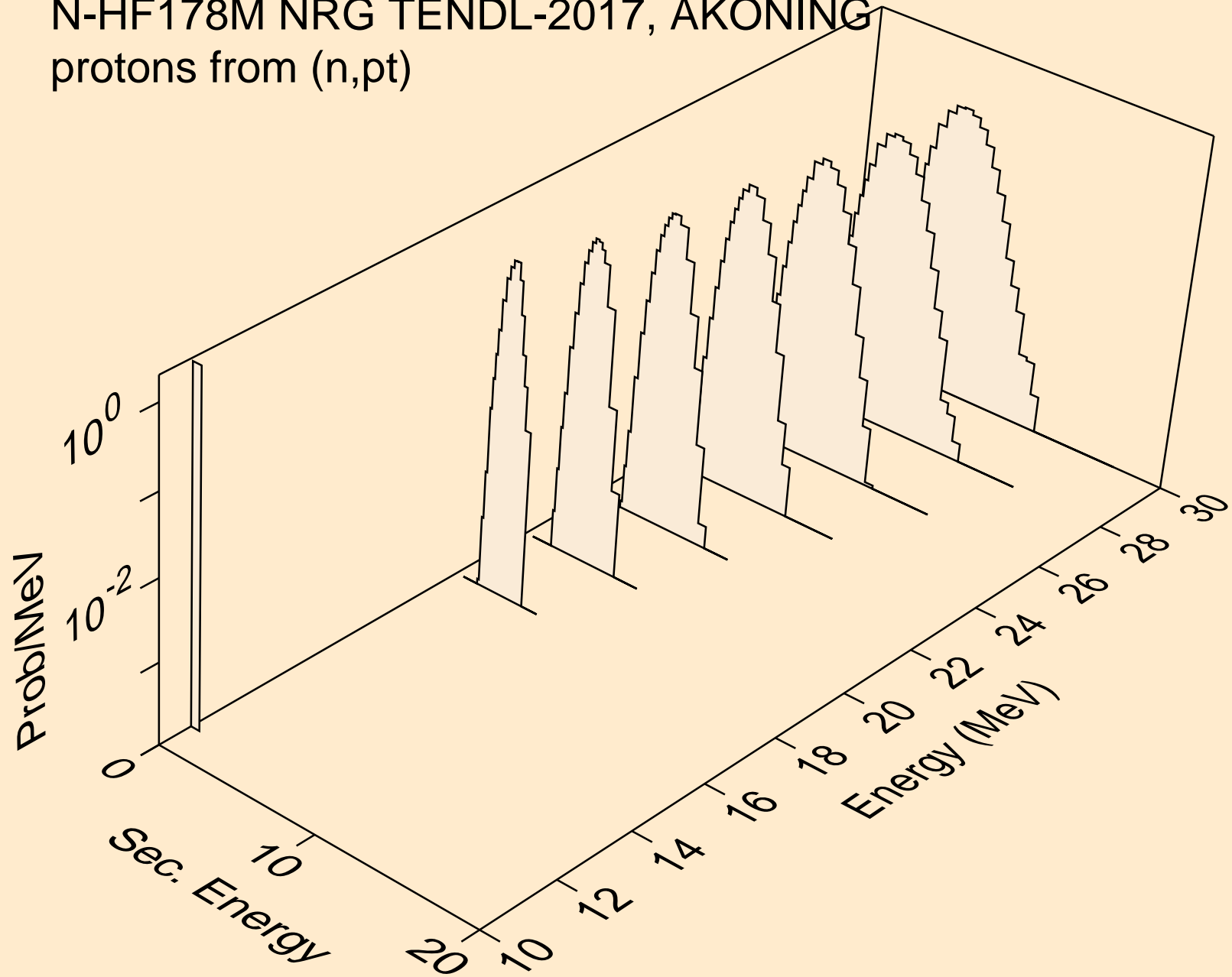




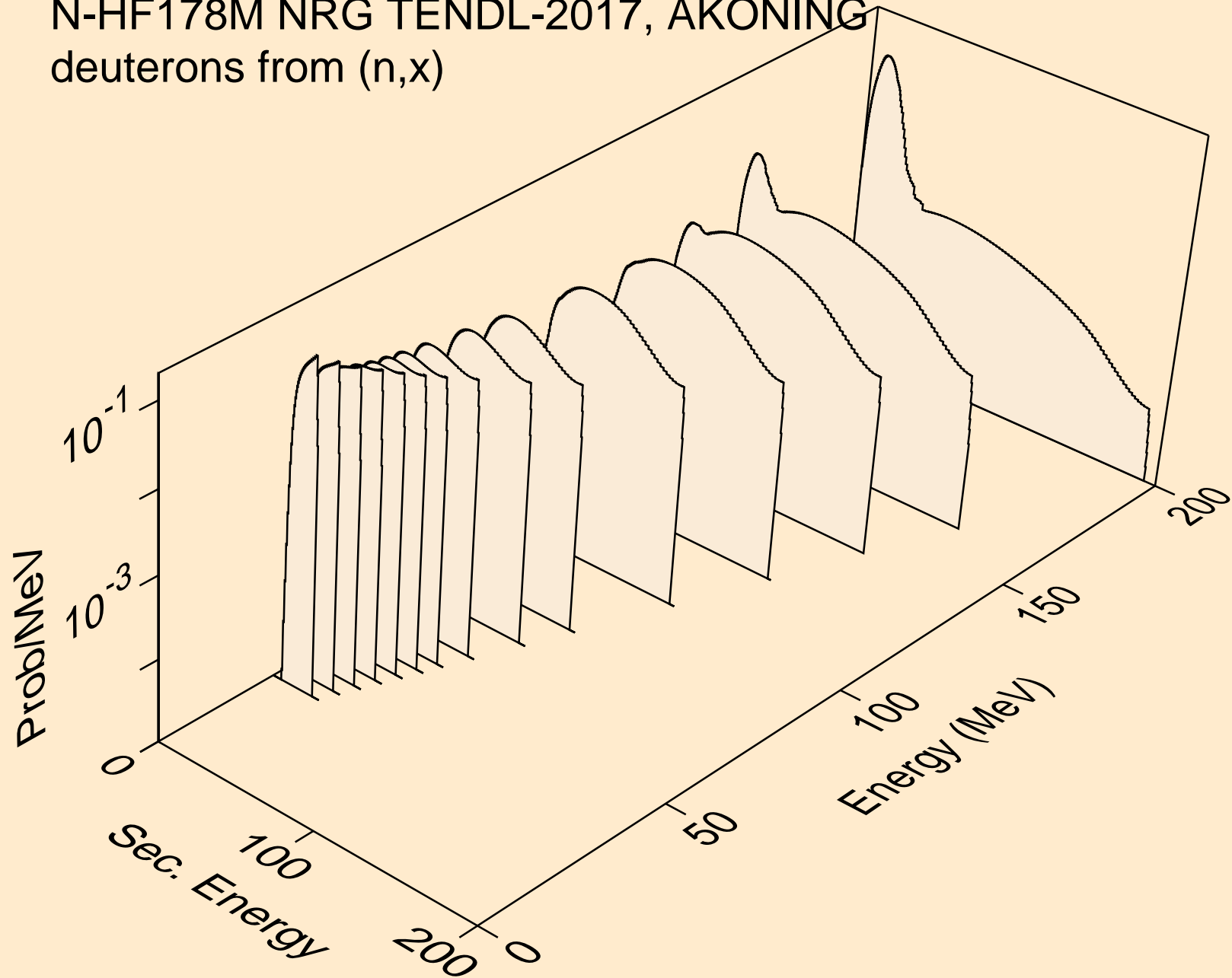
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protons from (n,pd)



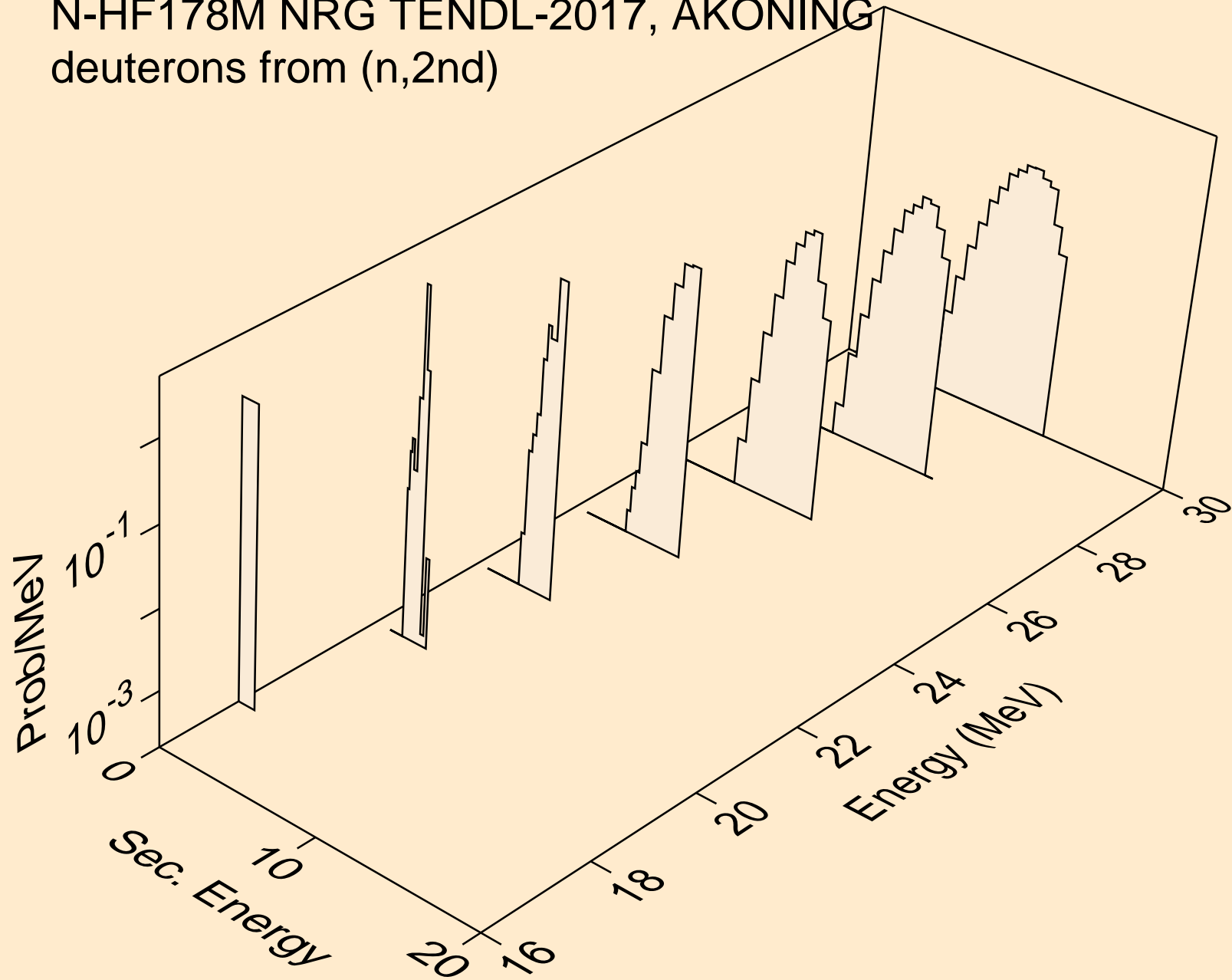
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protons from (n,pt)



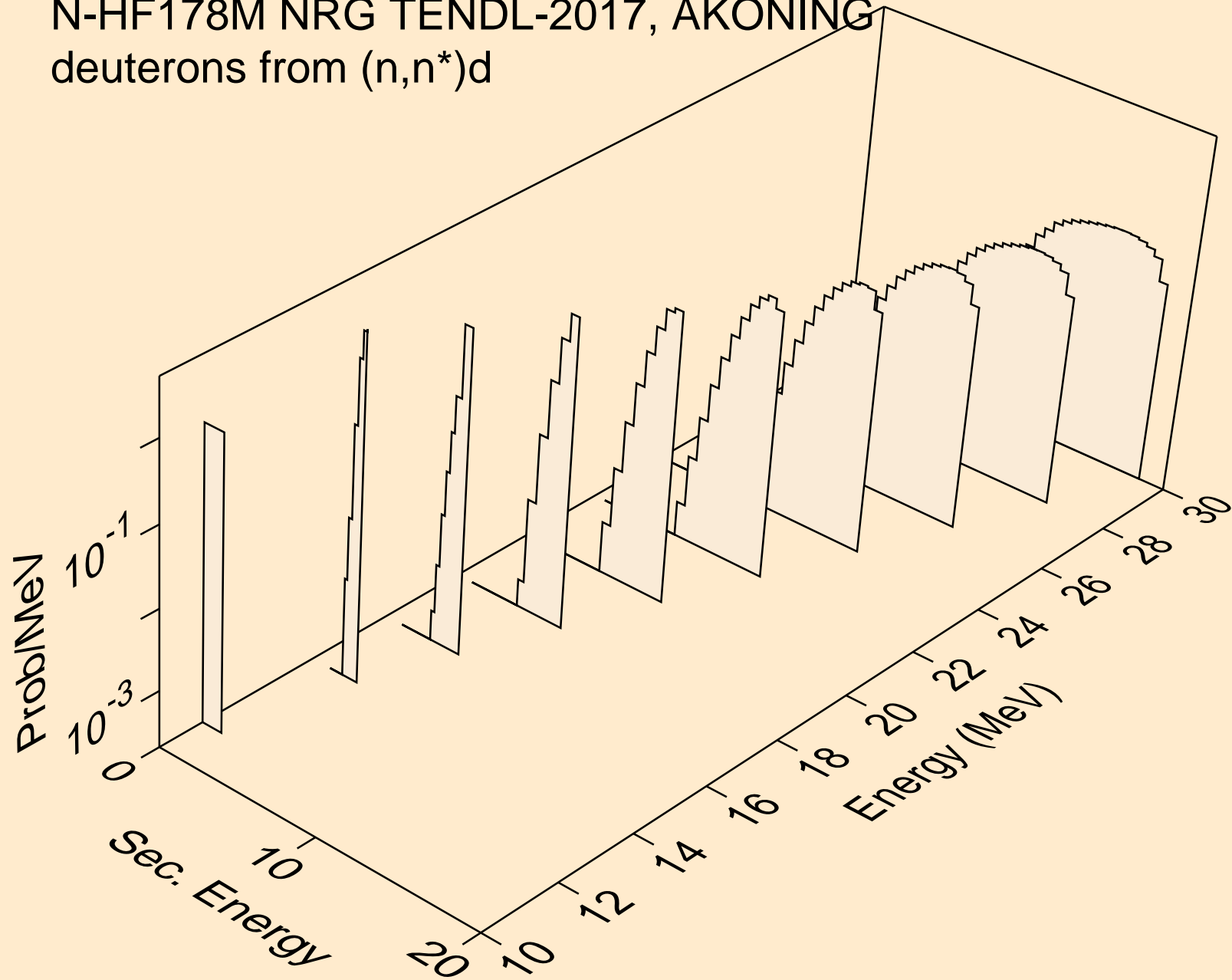
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deuterons from (n,x)



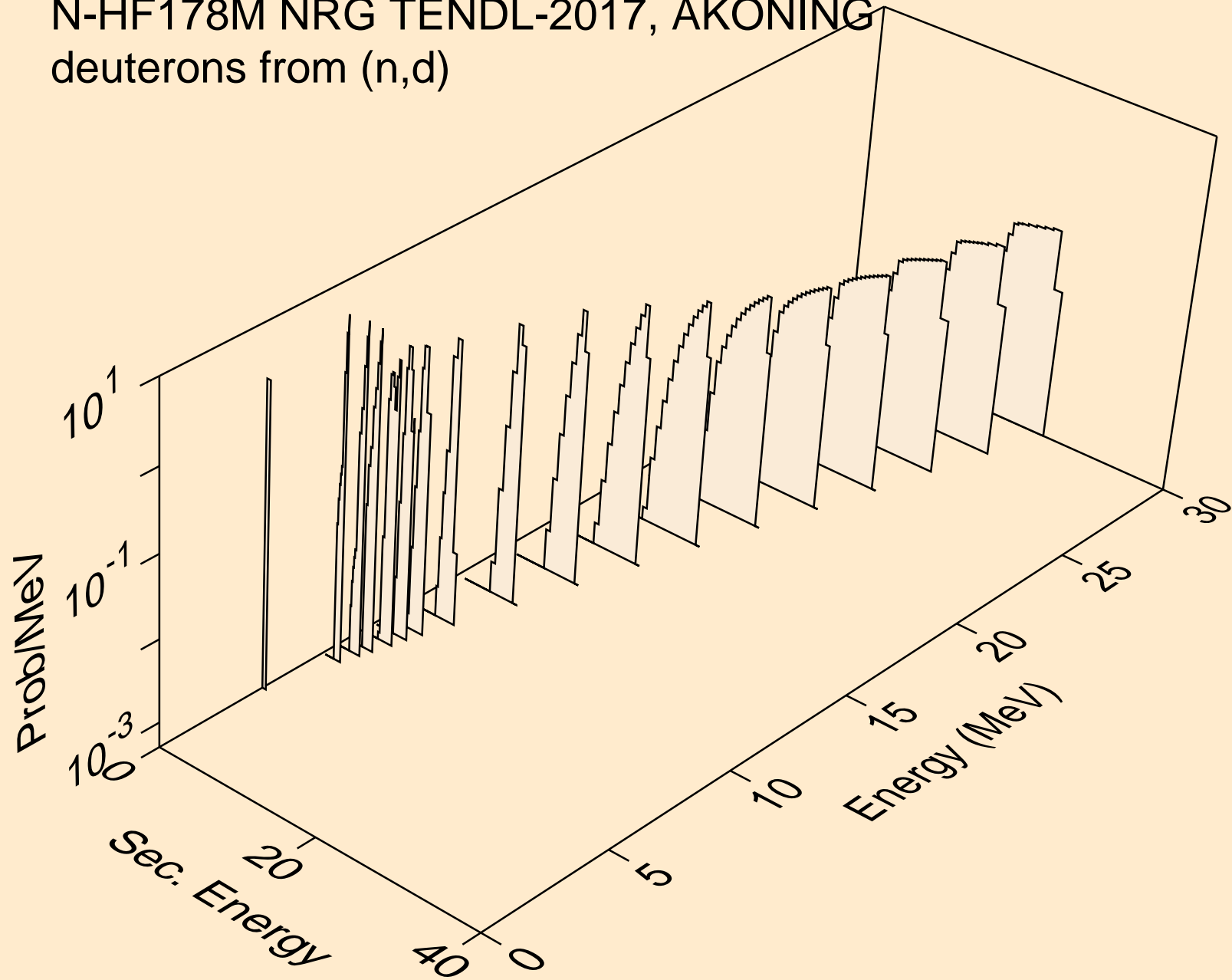
N-HF178M NRG TENDL-2017, AKONING  
deuterons from (n,2nd)



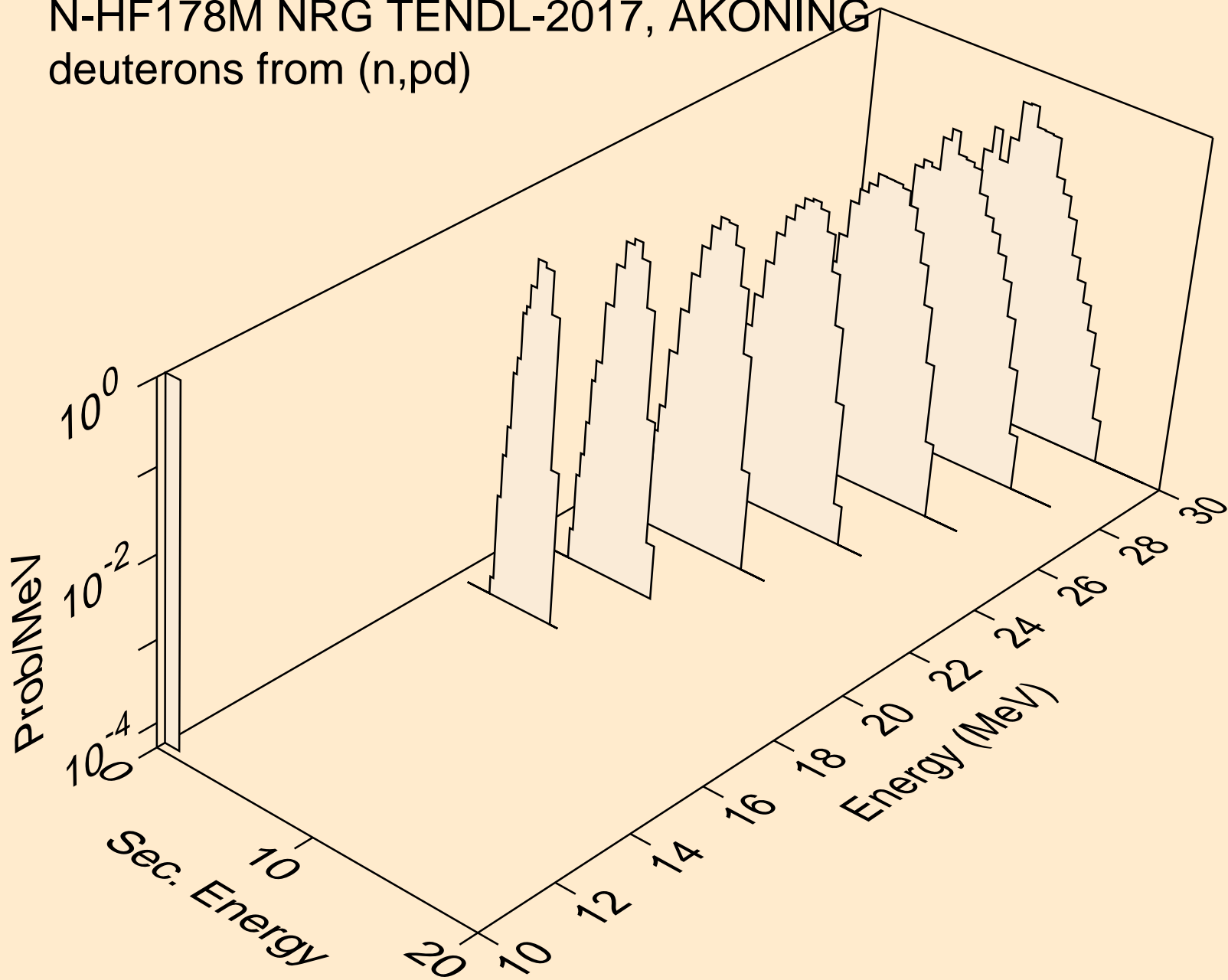
N-HF178M NRG TENDL-2017, AKONING  
deuterons from (n,n\*)d



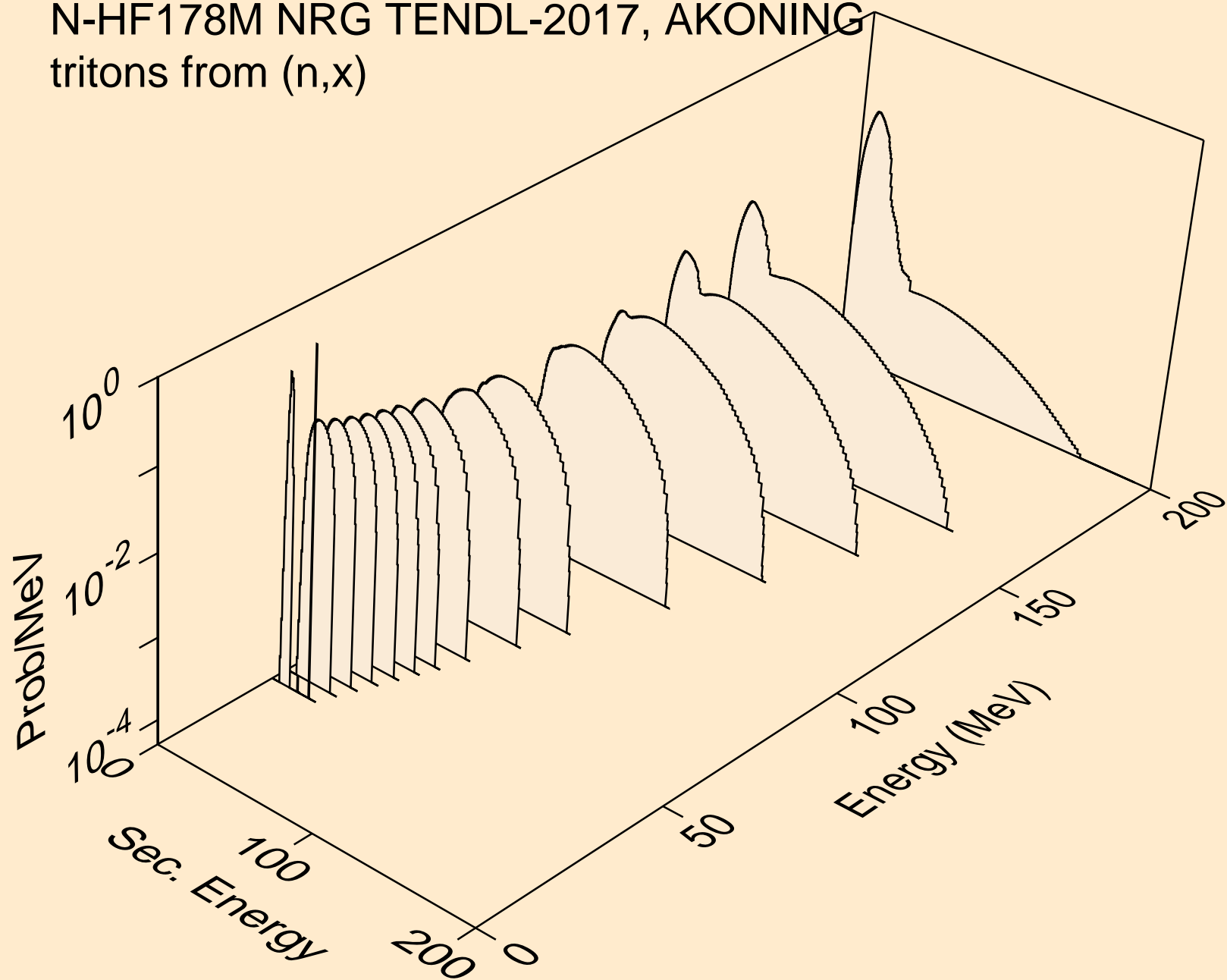
N-HF178M NRG TENDL-2017, AKONING  
deuterons from (n,d)



N-HF178M NRG TENDL-2017, AKONING  
deuterons from (n,pd)

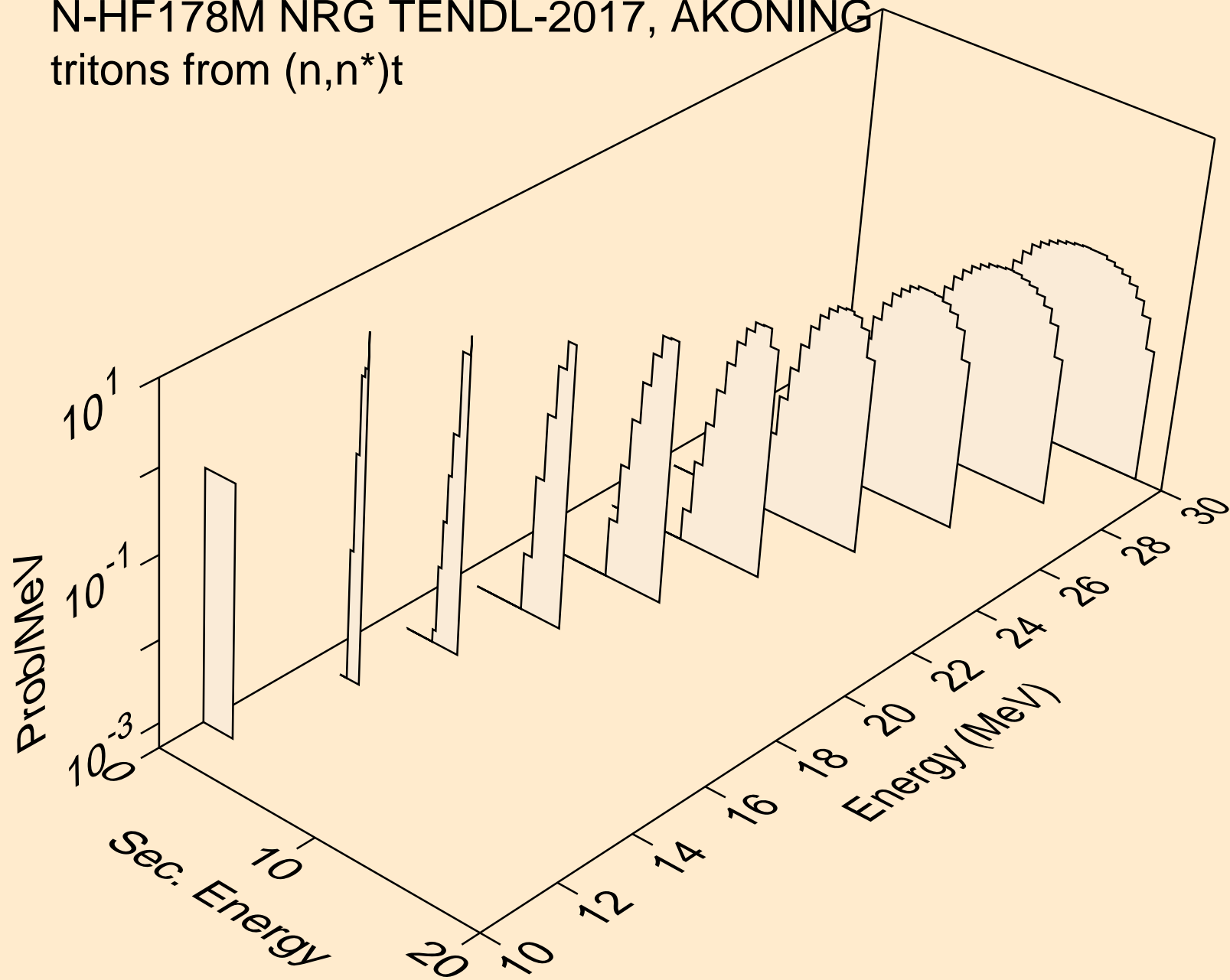


N-HF178M NRG TENDL-2017, AKONING  
tritons from (n,x)

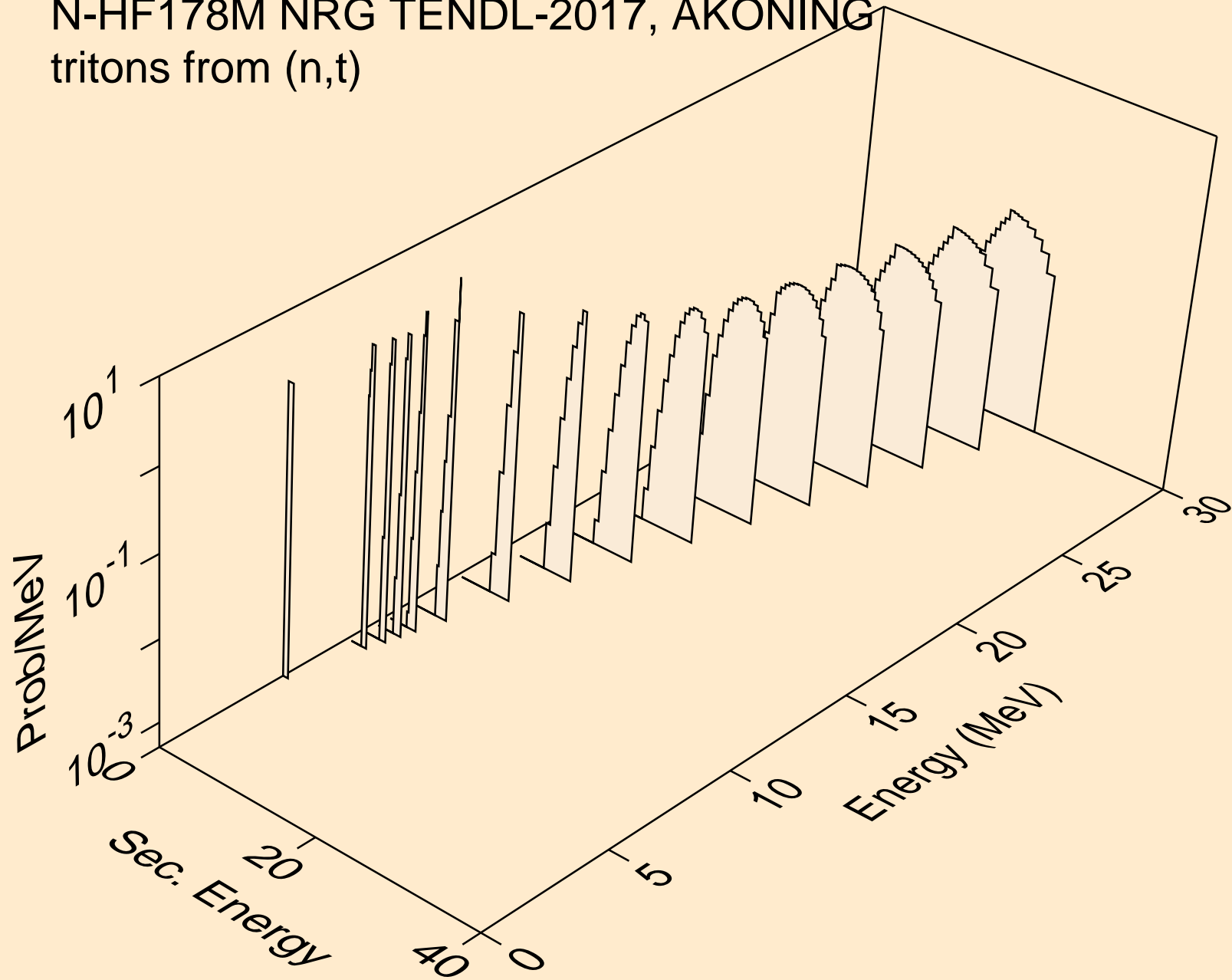




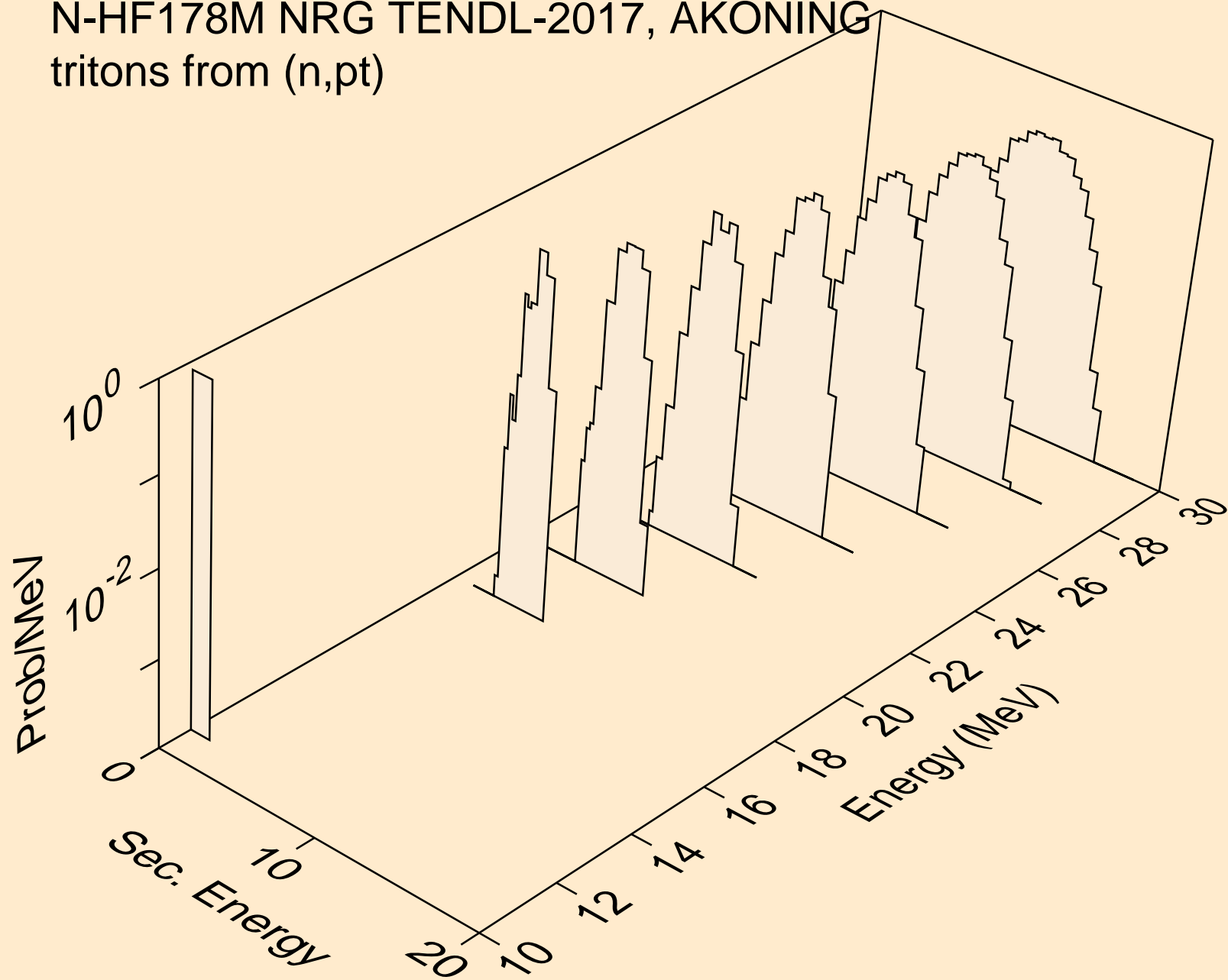
N-HF178M NRG TENDL-2017, AKONING  
tritons from (n,n\*)t



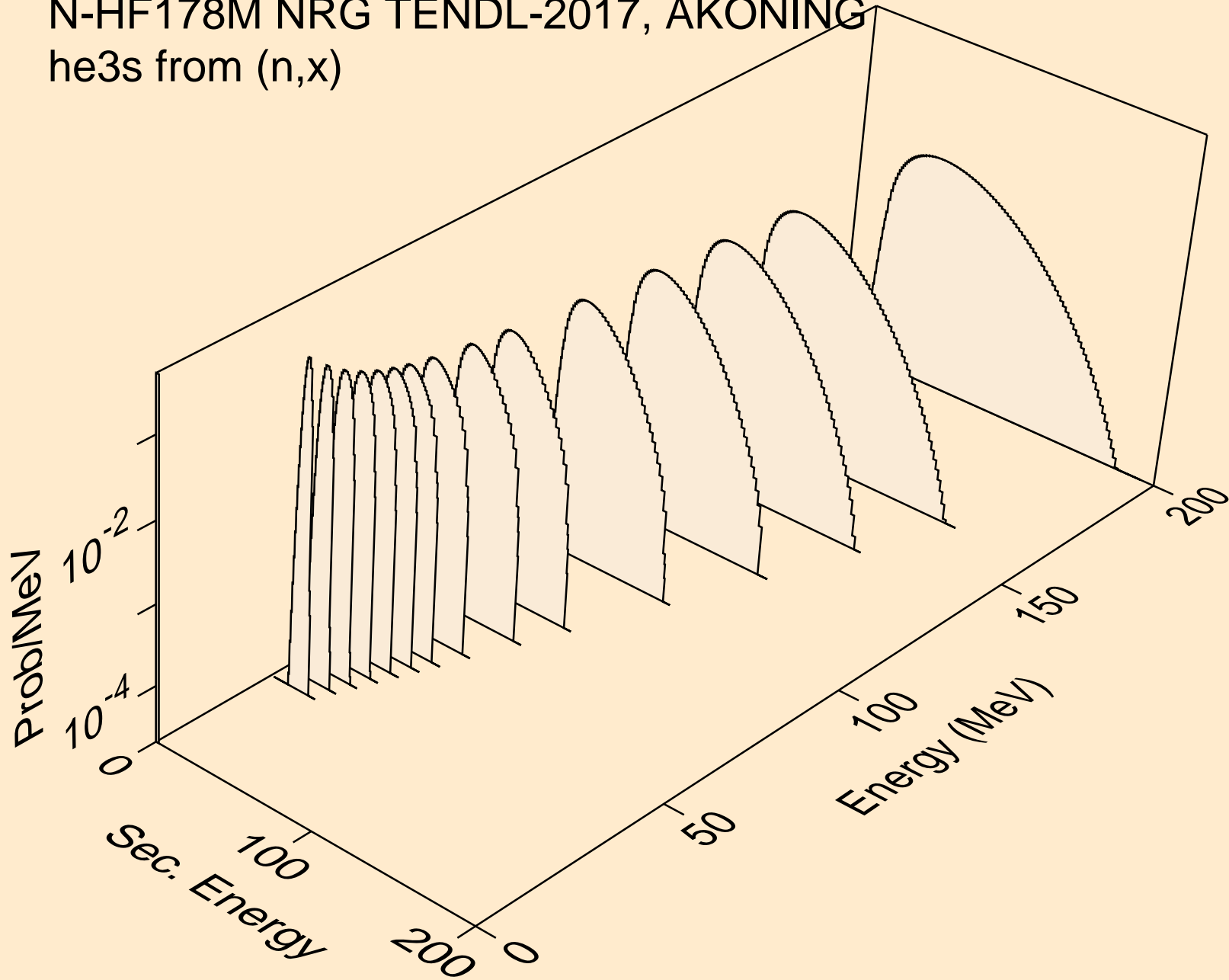
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tritons from (n,t)



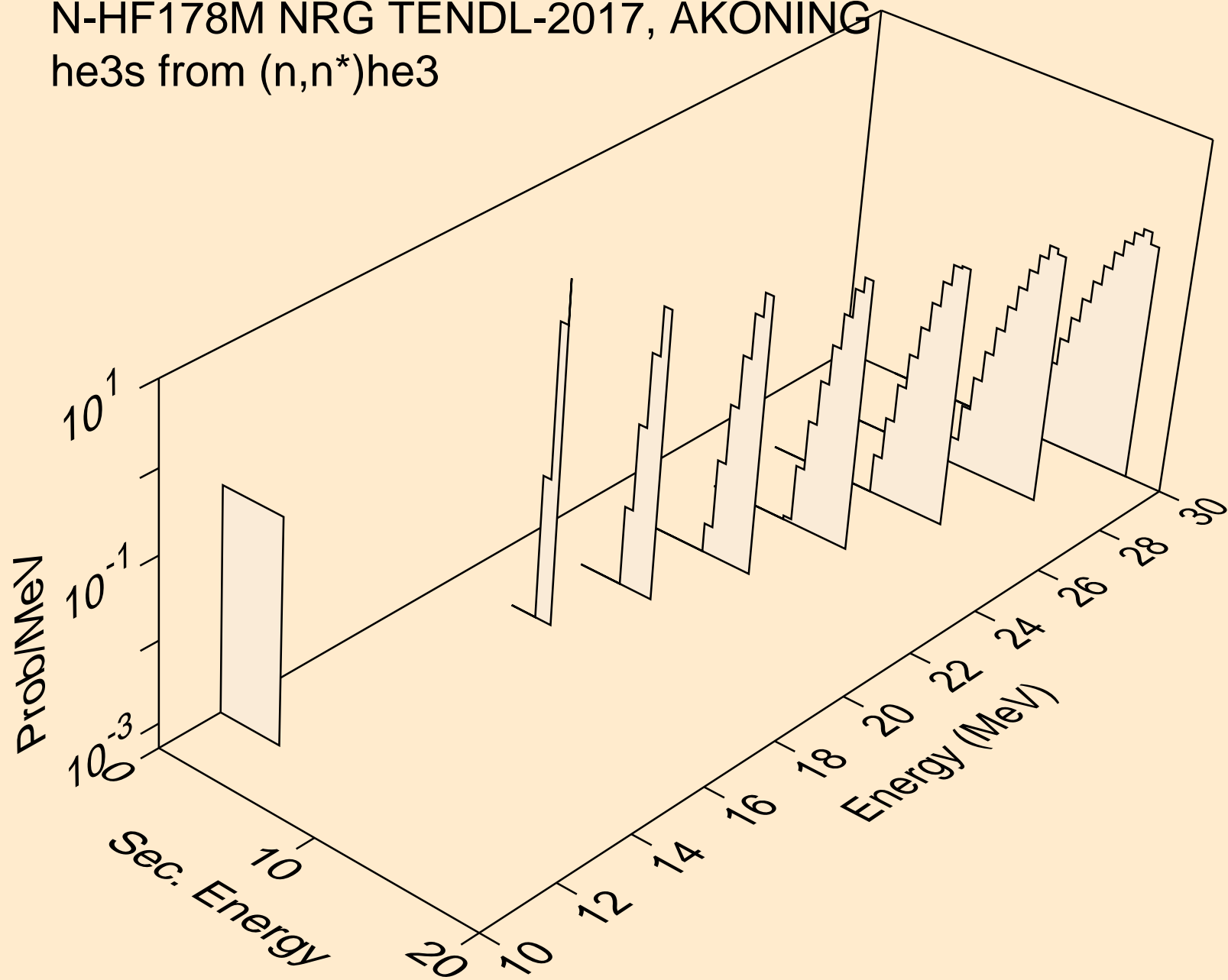
N-HF178M NRG TENDL-2017, AKONING  
tritons from (n,pt)



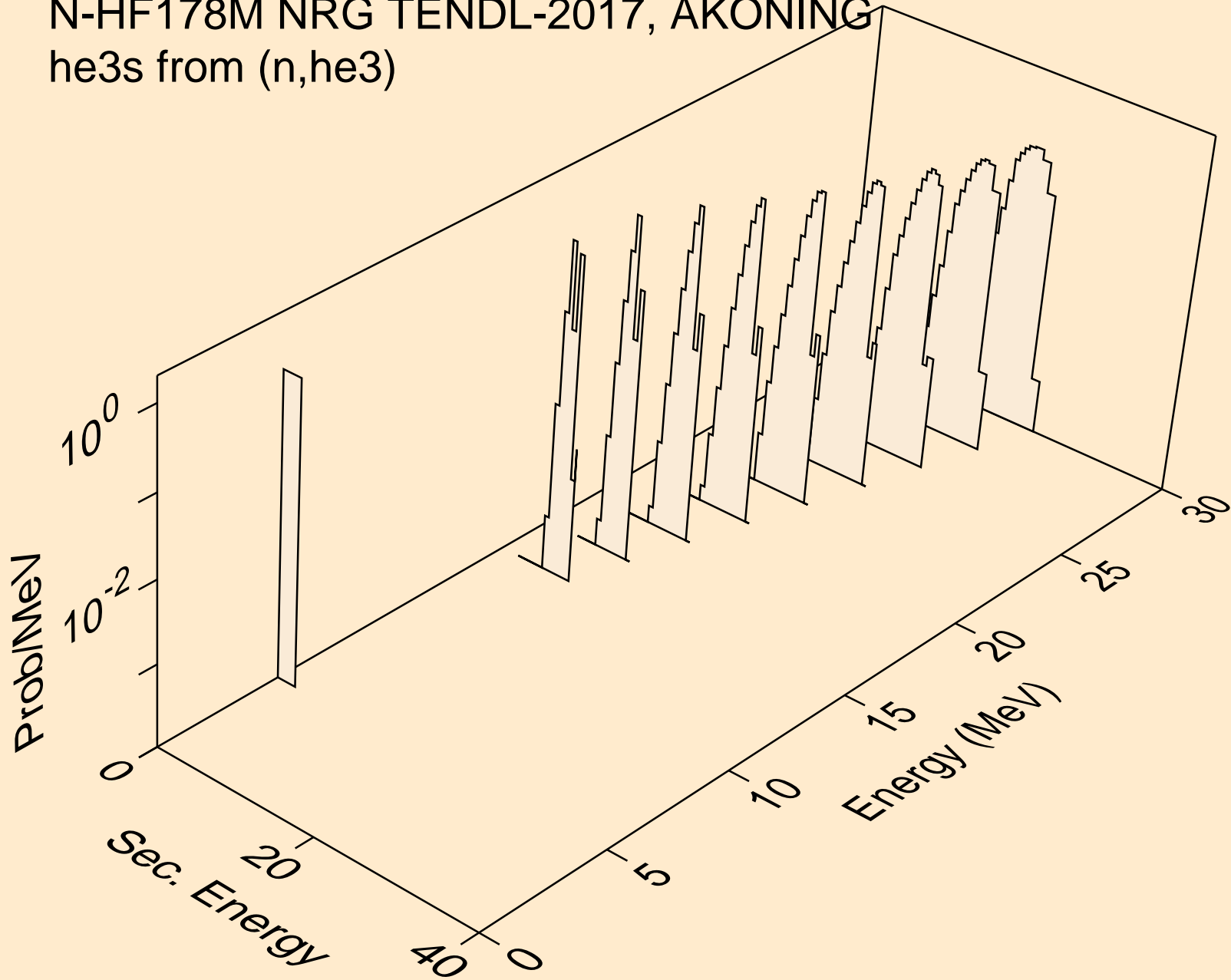
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he3s from (n,x)



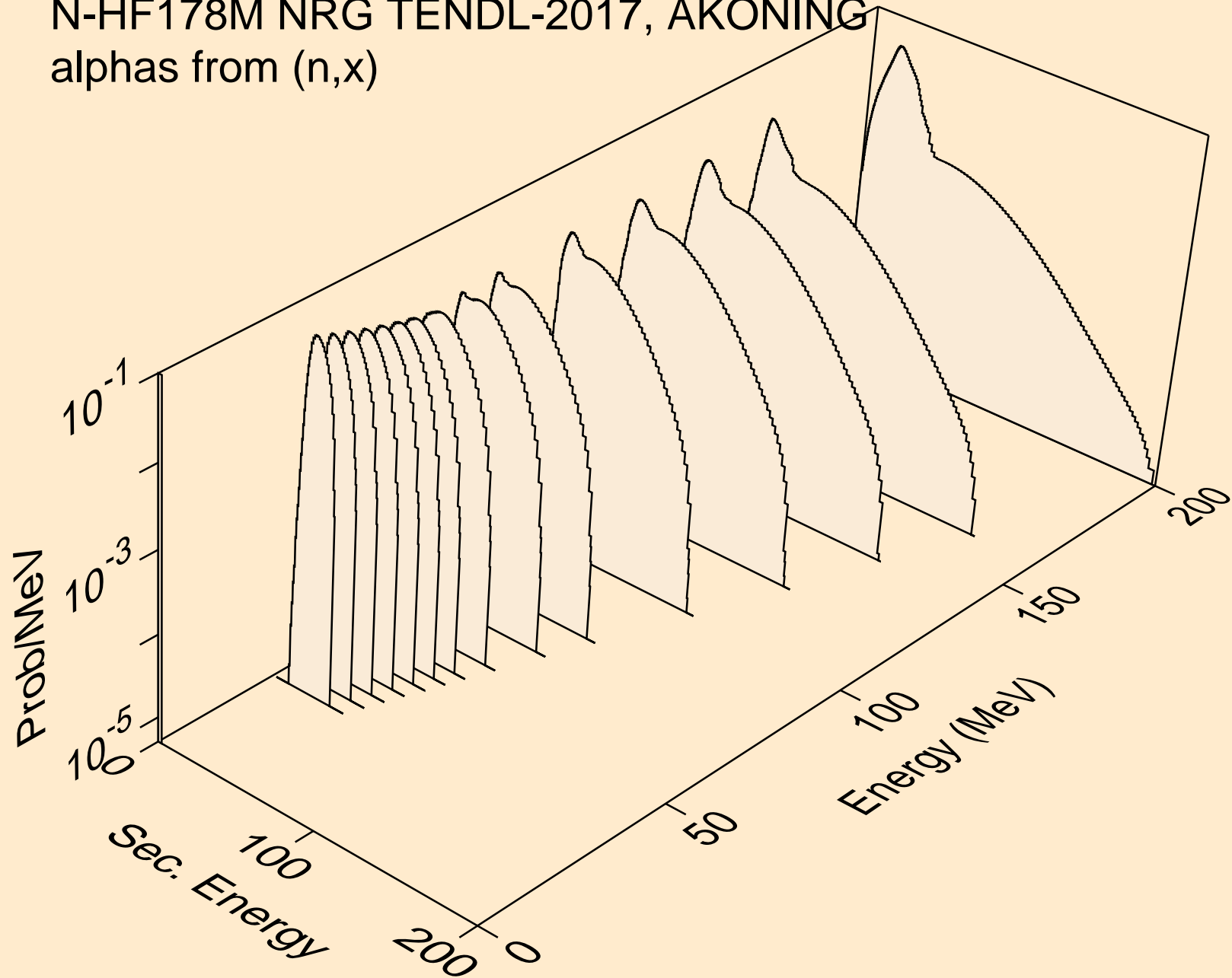
N-HF178M NRG TENDL-2017, AKONING  
he3s from (n,n\*)he3



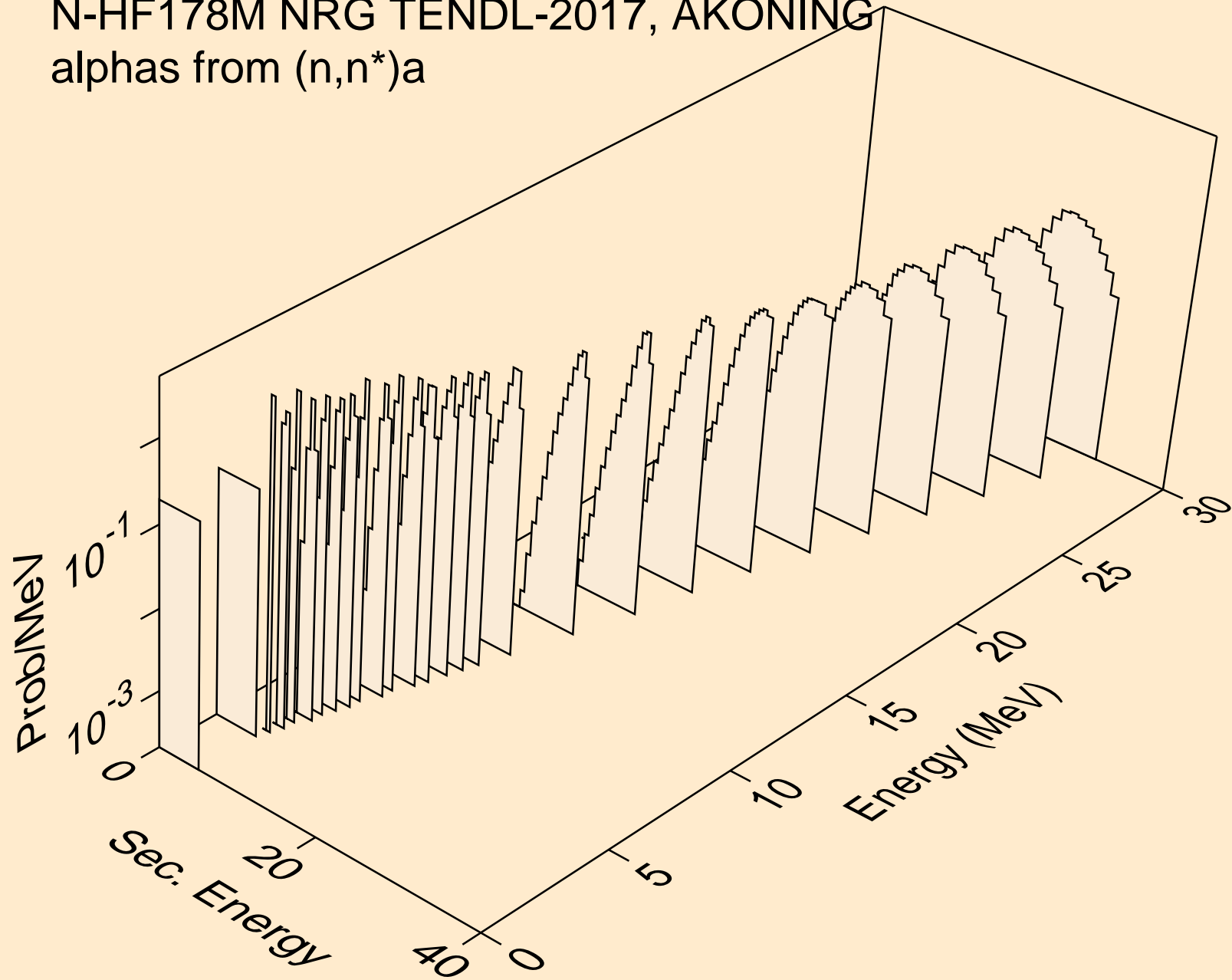
N-HF178M NRG TENDL-2017, AKONING  
he3s from (n,he3)



N-HF178M NRG TENDL-2017, AKONING  
alphas from (n,x)

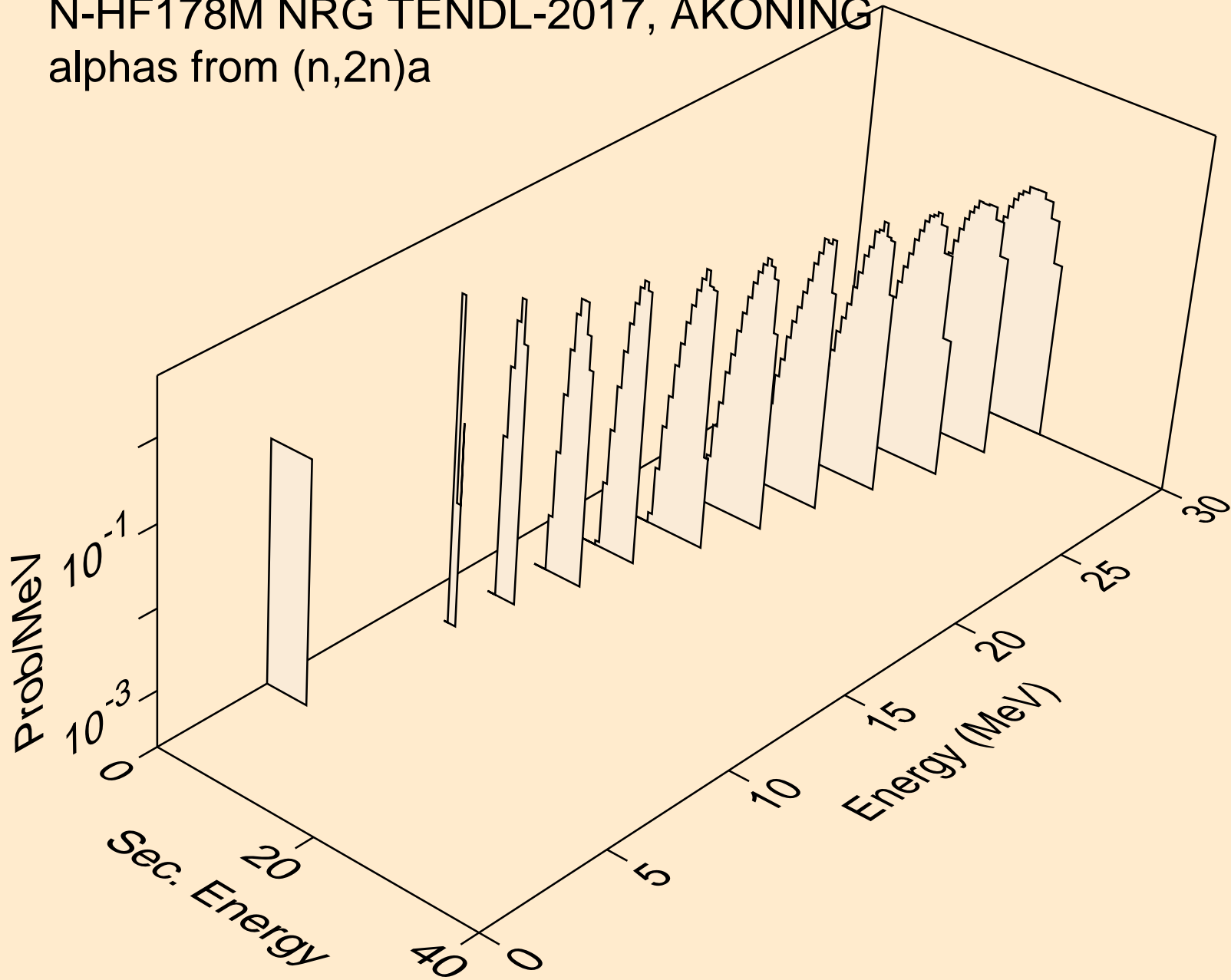


N-HF178M NRG TENDL-2017, AKONING  
alphas from (n,n\*)a

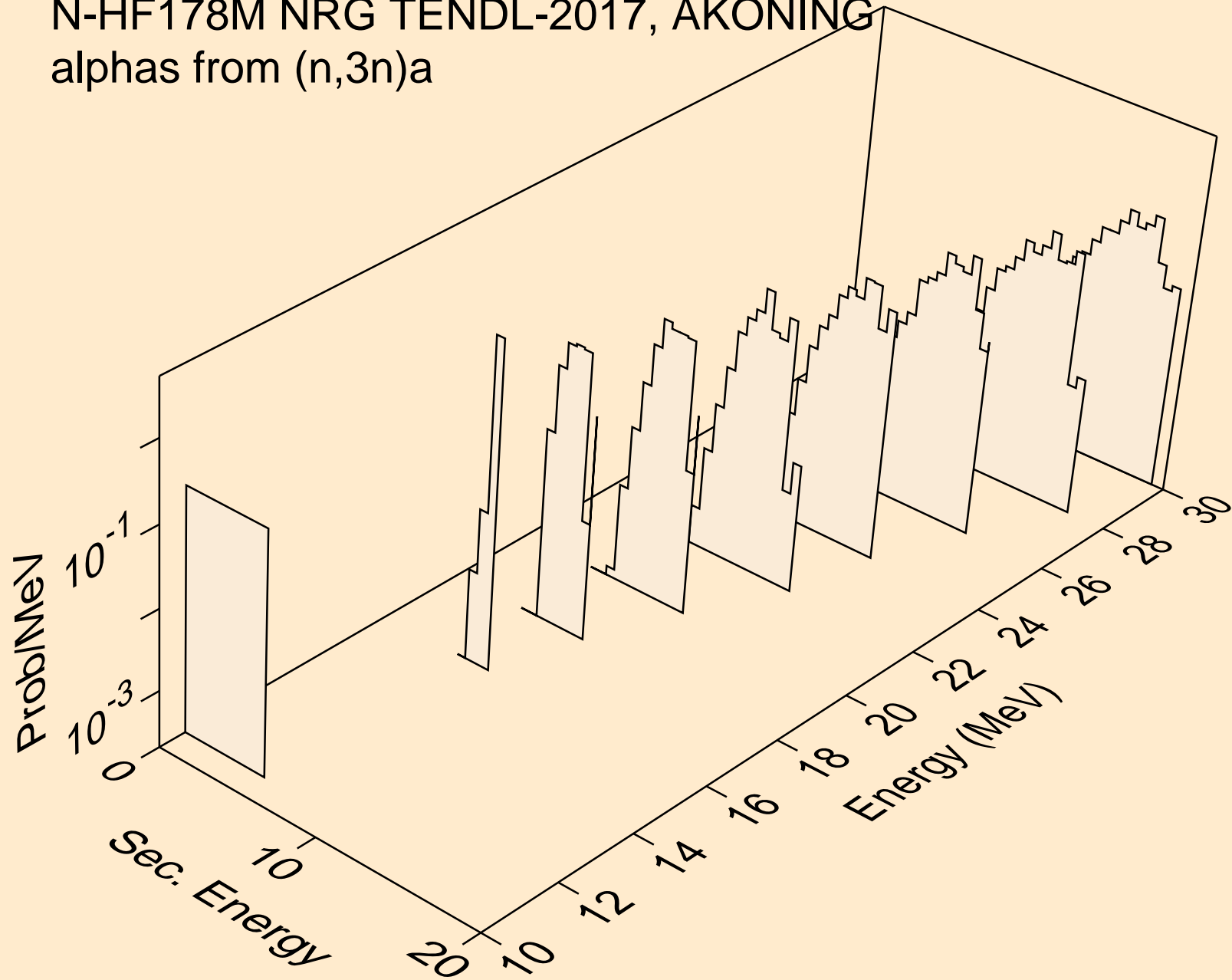




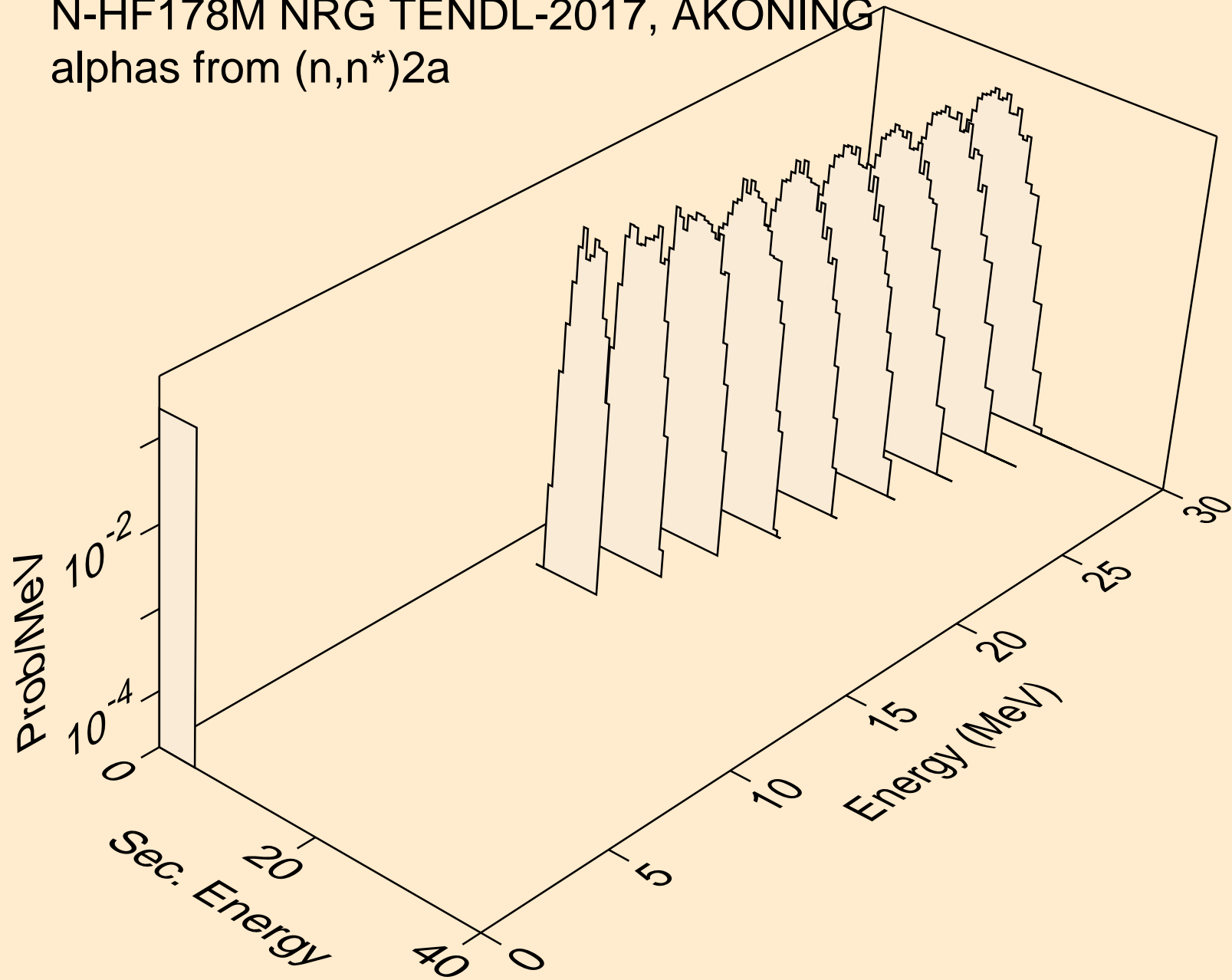
N-HF178M NRG TENDL-2017, AKONING  
alphas from (n,2n)a



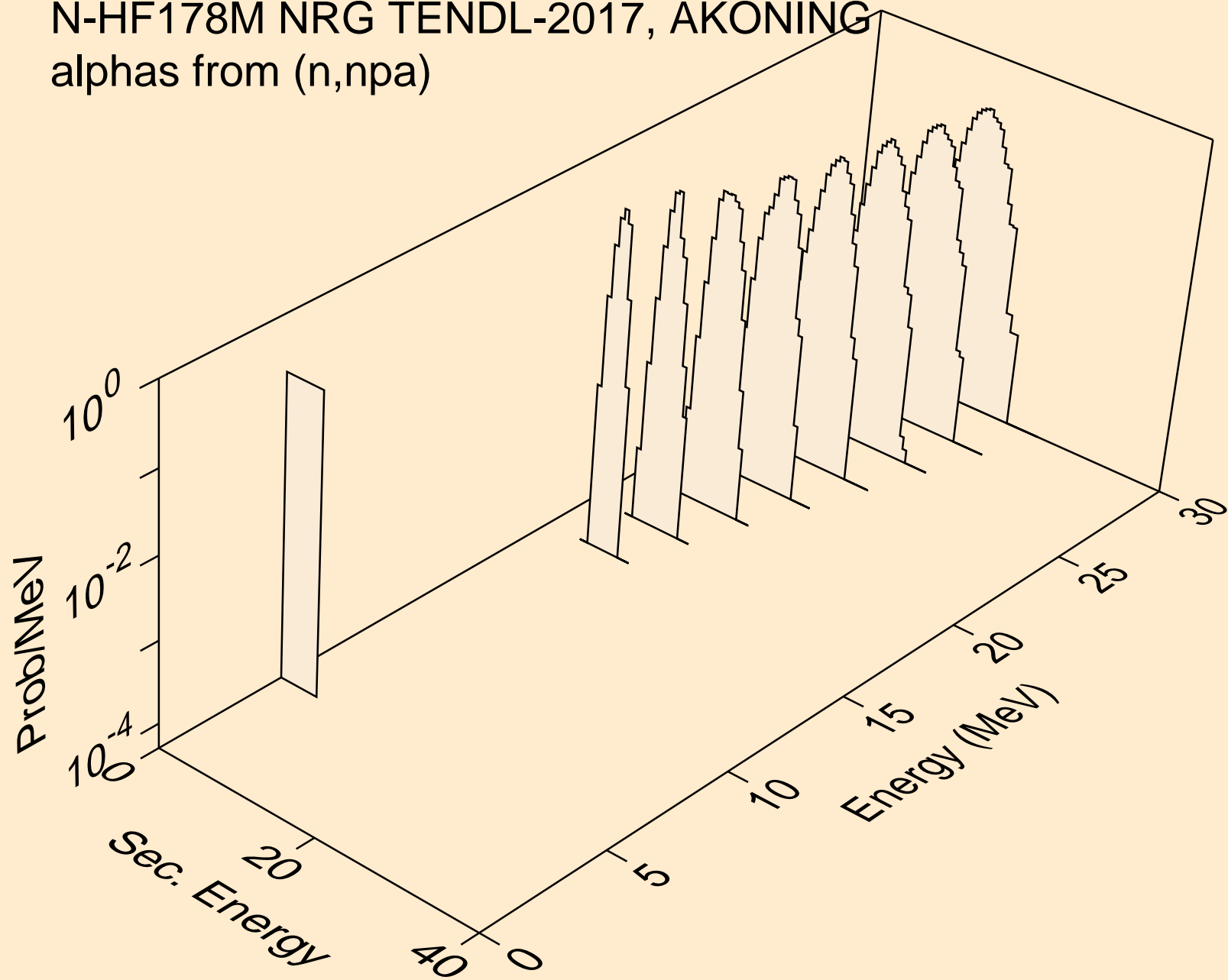
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alphas from (n,3n)a



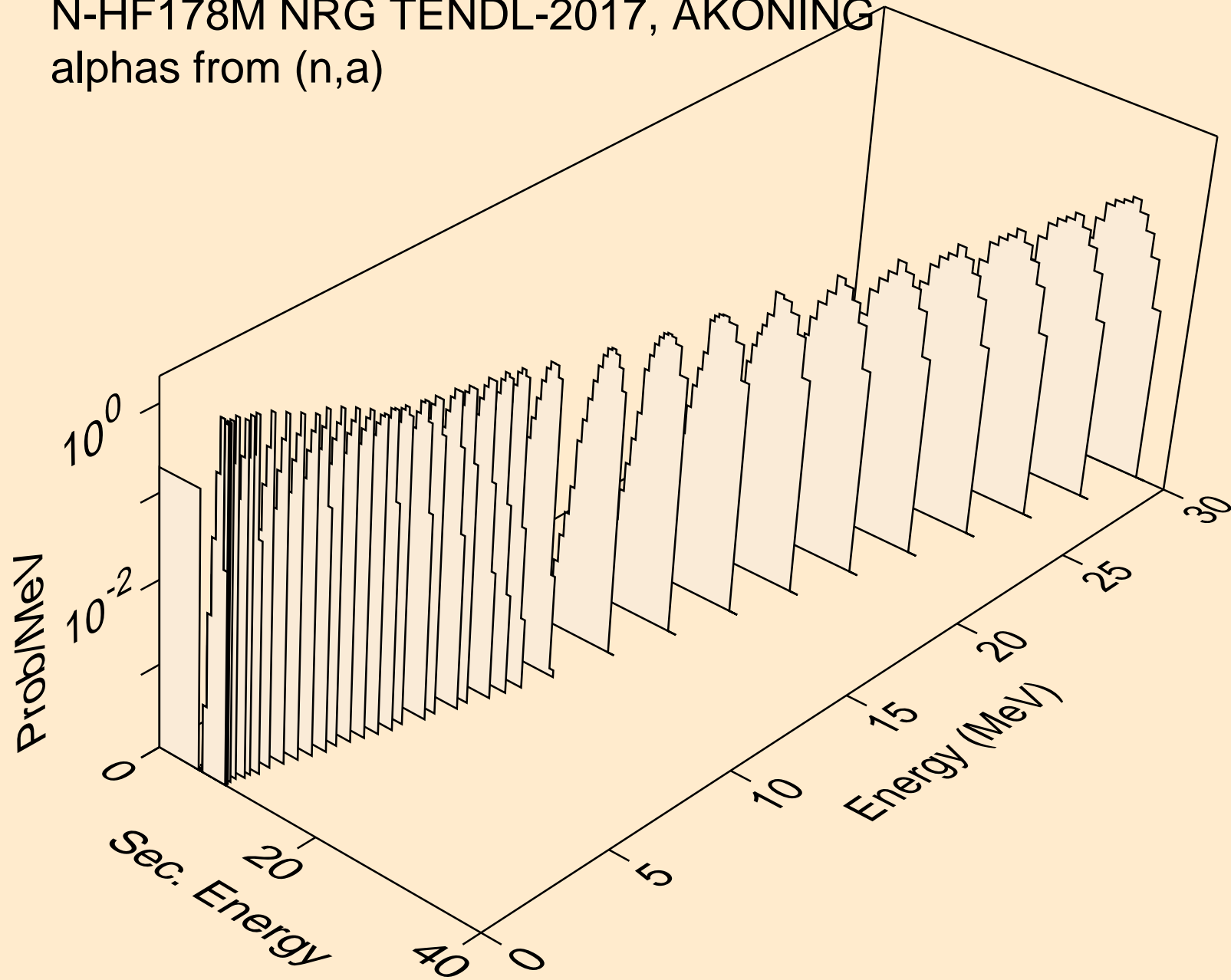
N-HF178M NRG TENDL-2017, AKONING  
alphas from (n,n\*)2a



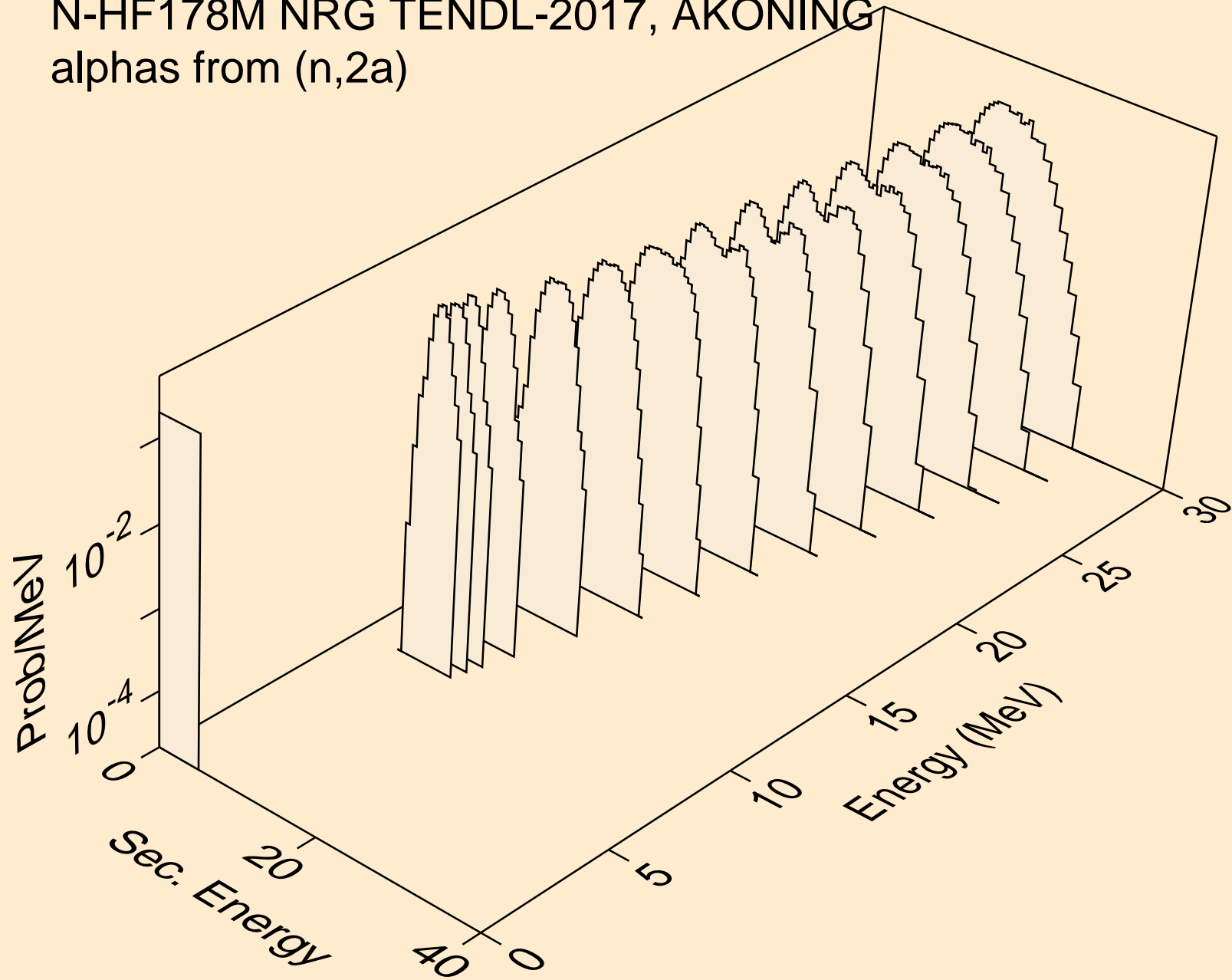
N-HF178M NRG TENDL-2017, AKONING  
alphas from (n,npa)



N-HF178M NRG TENDL-2017, AKONING  
alphas from (n,a)



N-HF178M NRG TENDL-2017, AKONING  
alphas from (n,2a)



N-HF178M NRG TENDL-2017, AKONING  
alphas from (n,pa)

