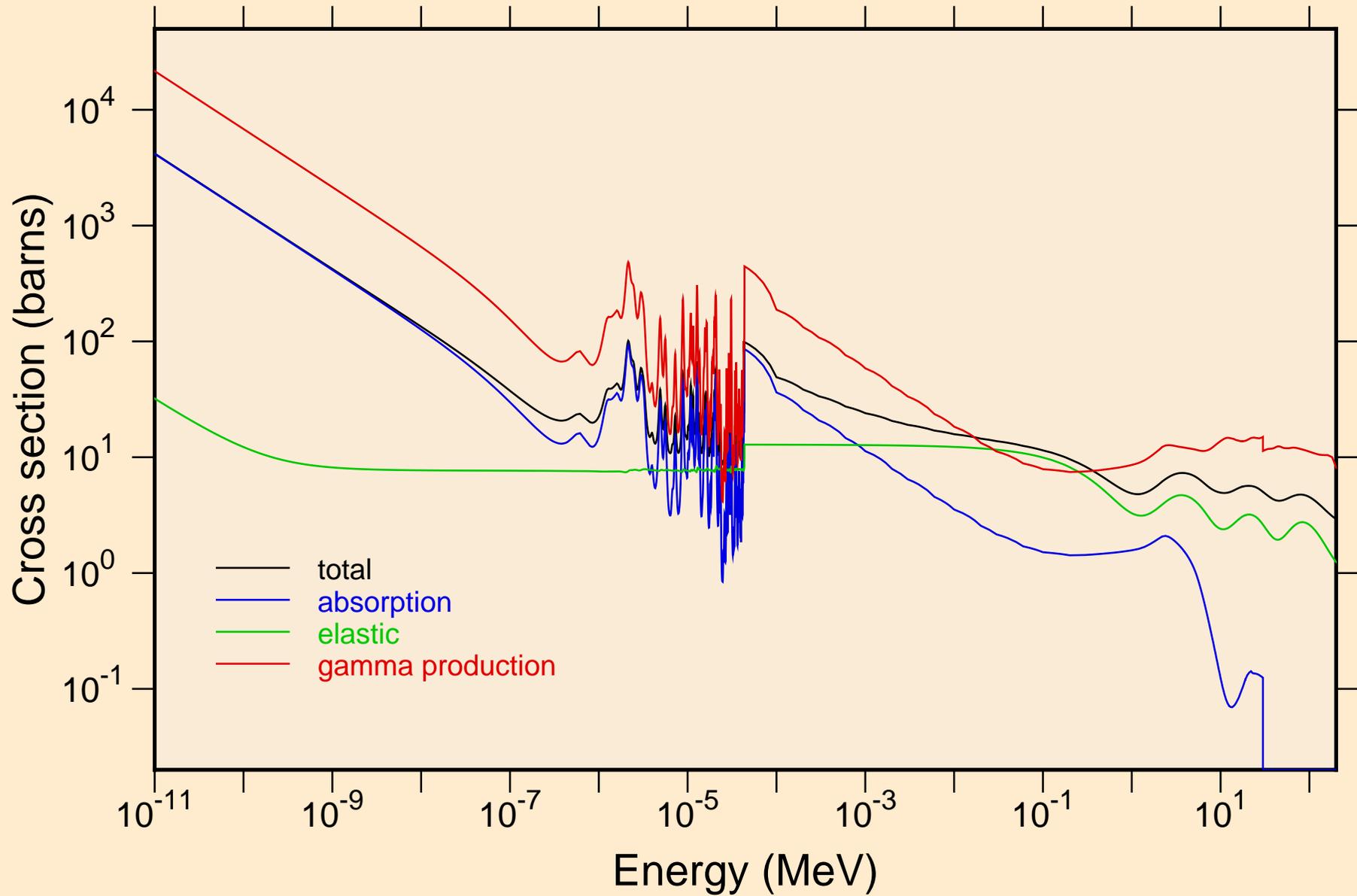


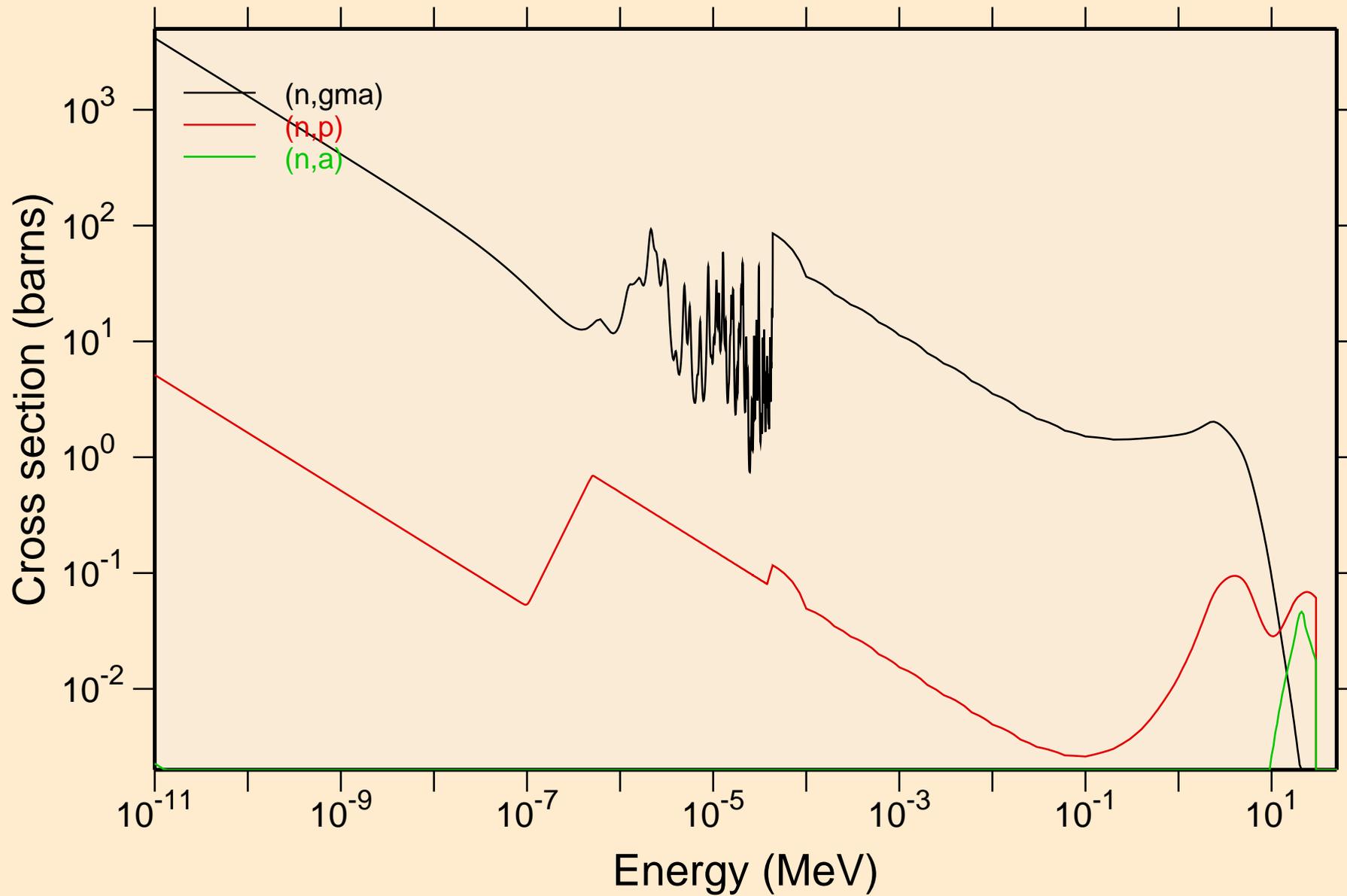
# N-BI199 NRG TENDL-2017, AKONING

## Principal cross sections



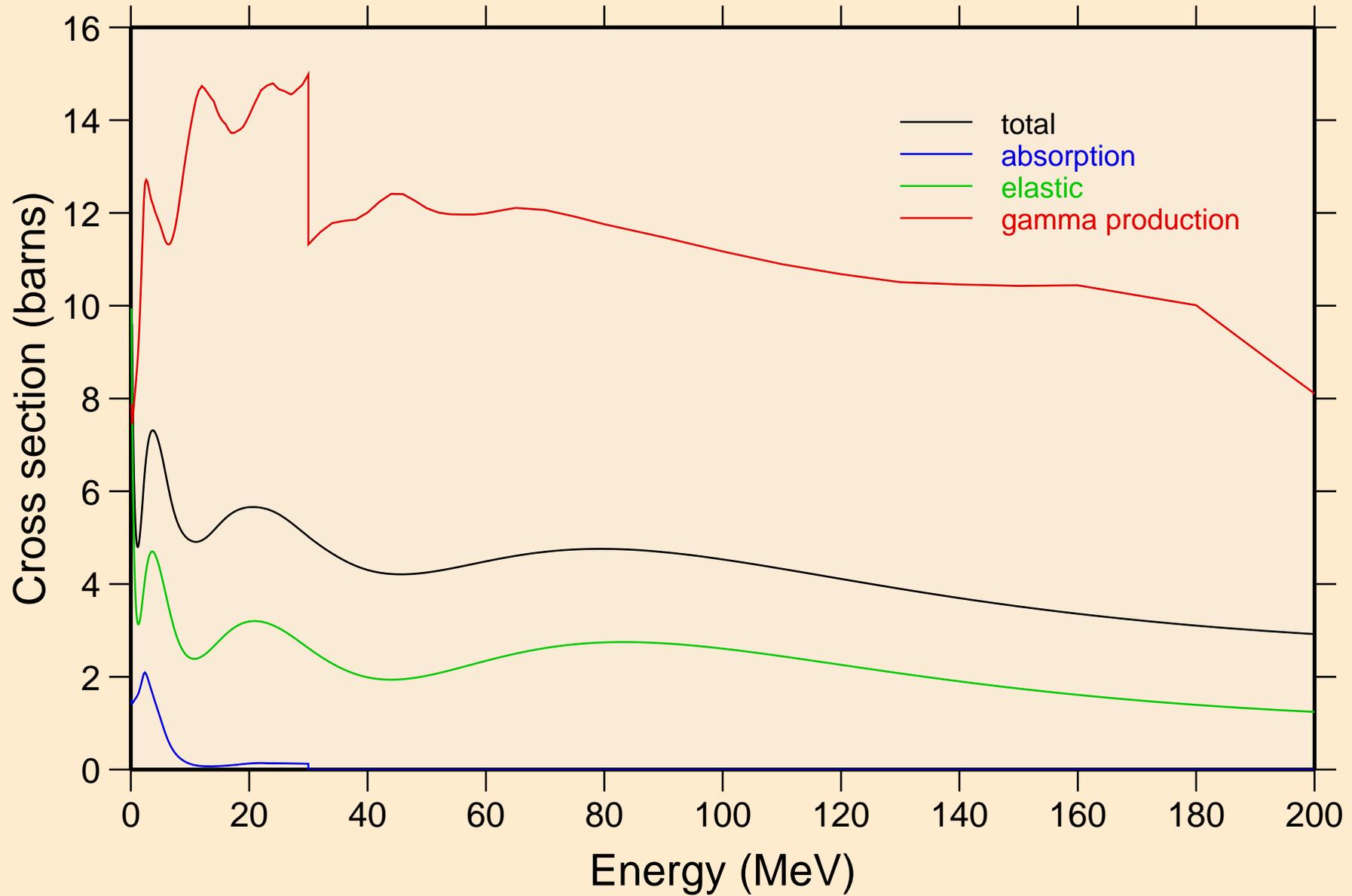
# N-BI199 NRG TENDL-2017, AKONING

## Non-threshold reactions



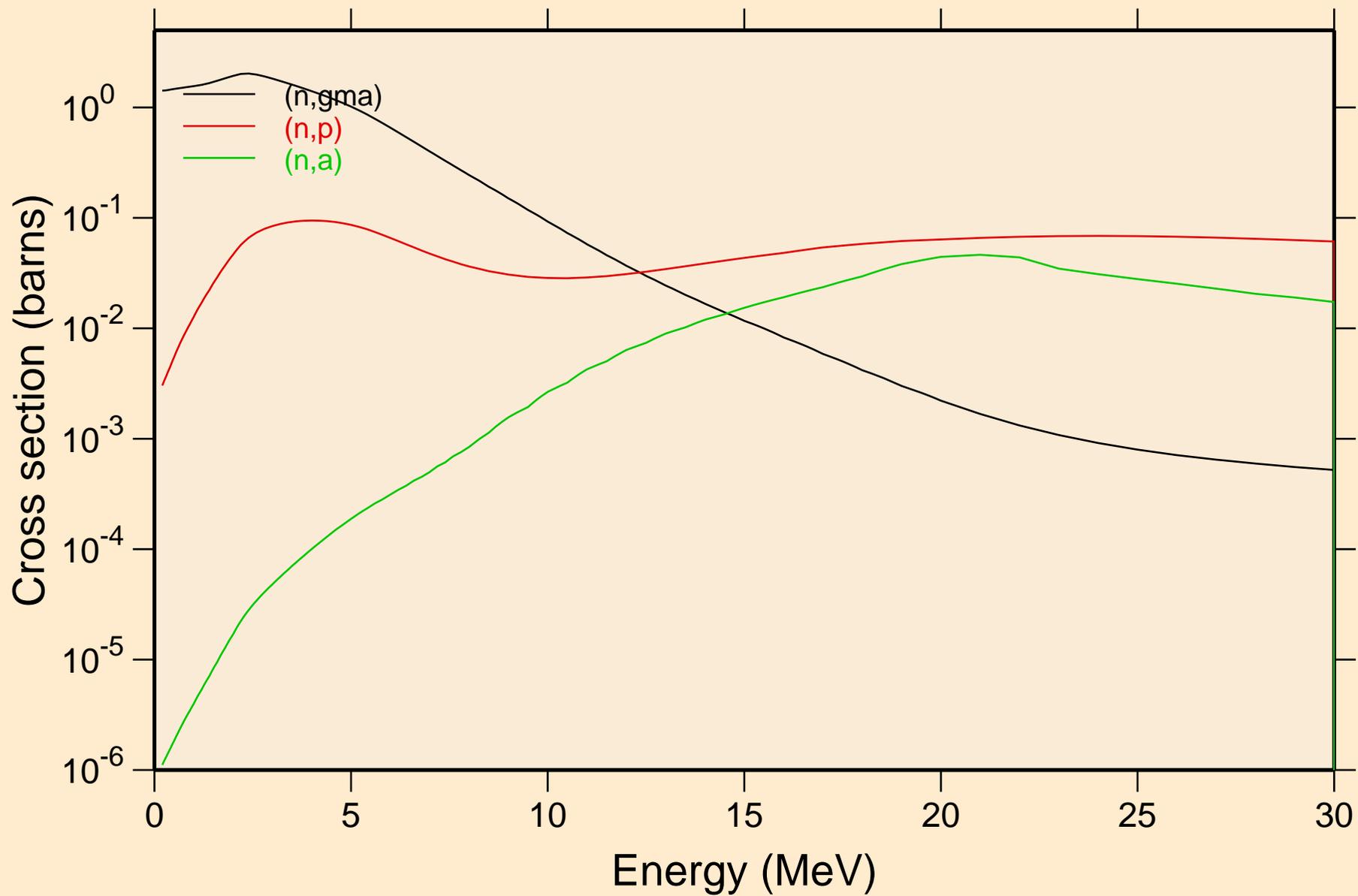
# N-BI199 NRG TENDL-2017, AKONING

## Principal cross sections



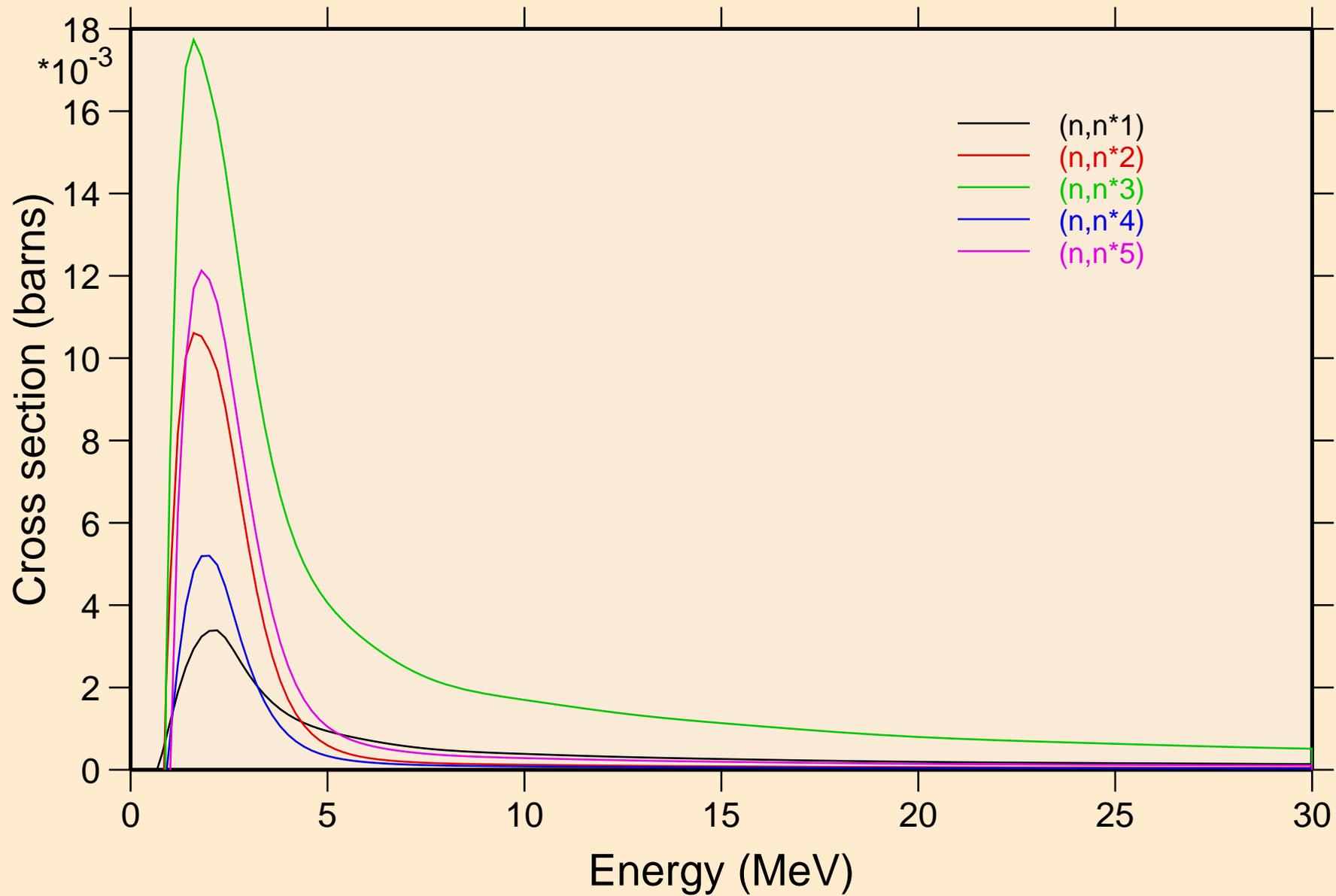
# N-BI199 NRG TENDL-2017, AKONING

## Non-threshold reactions



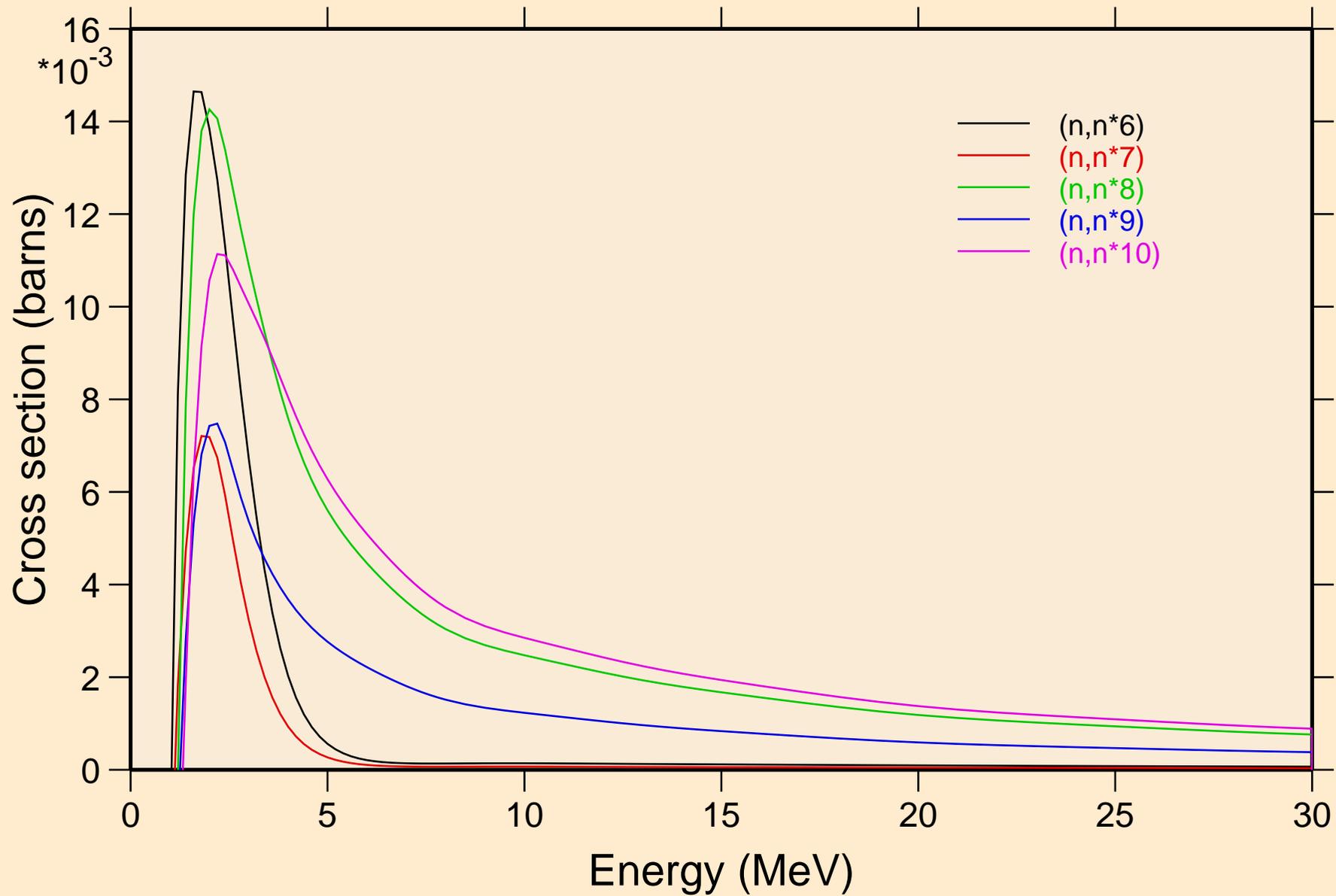
# N-BI199 NRG TENDL-2017, AKONING

## Inelastic levels



# N-BI199 NRG TENDL-2017, AKONING

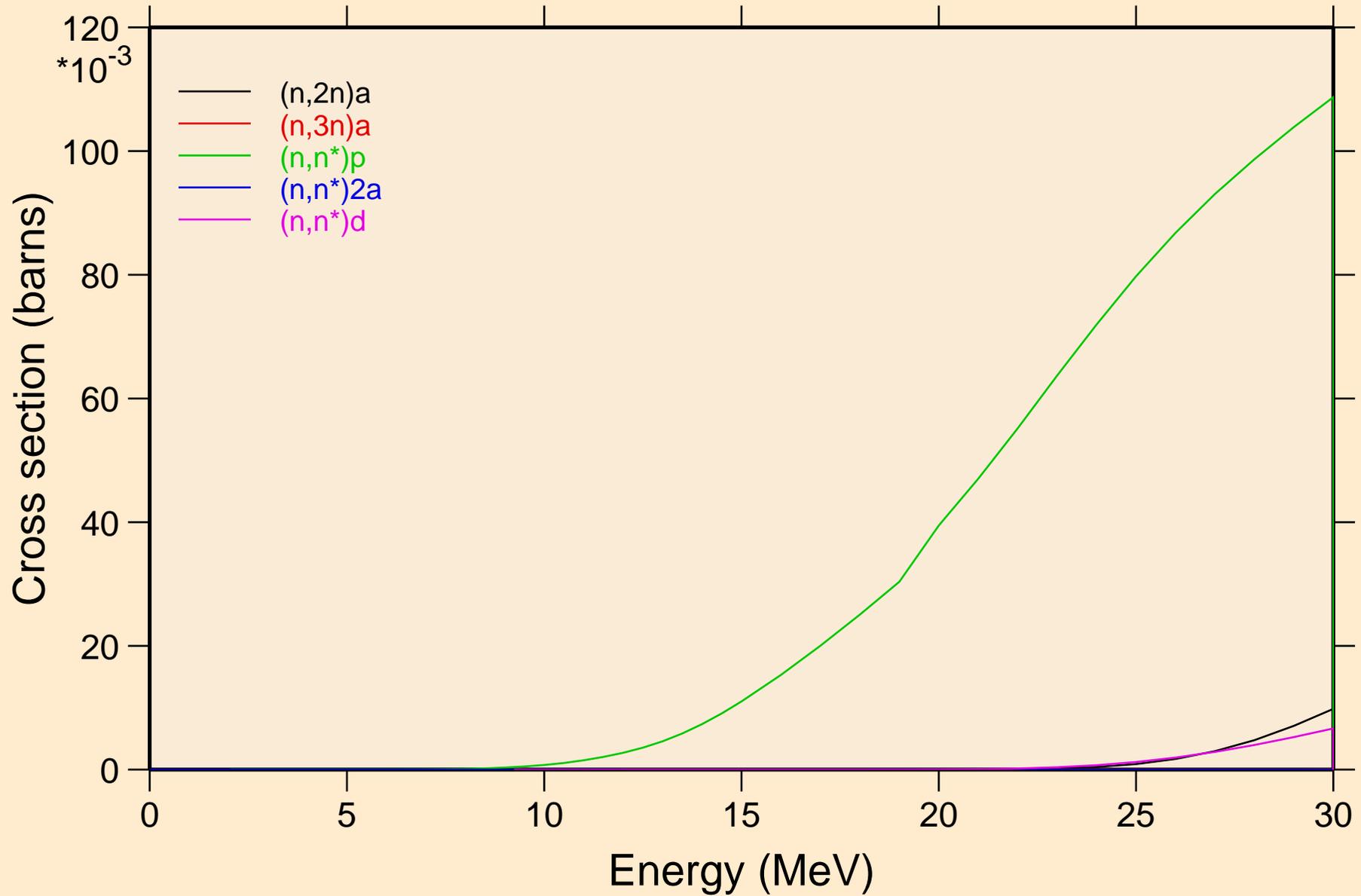
## Inelastic levels





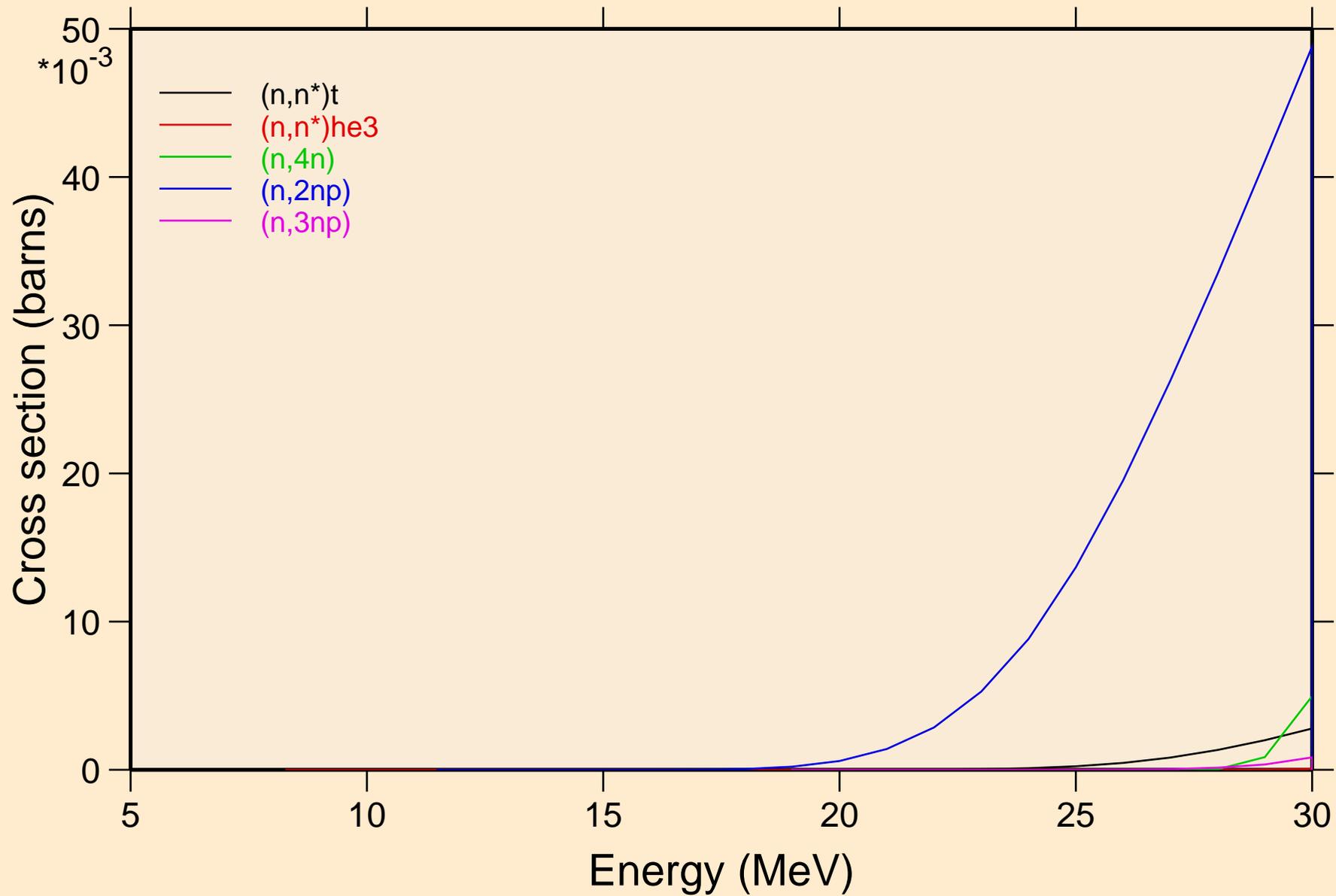
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## Threshold reactions



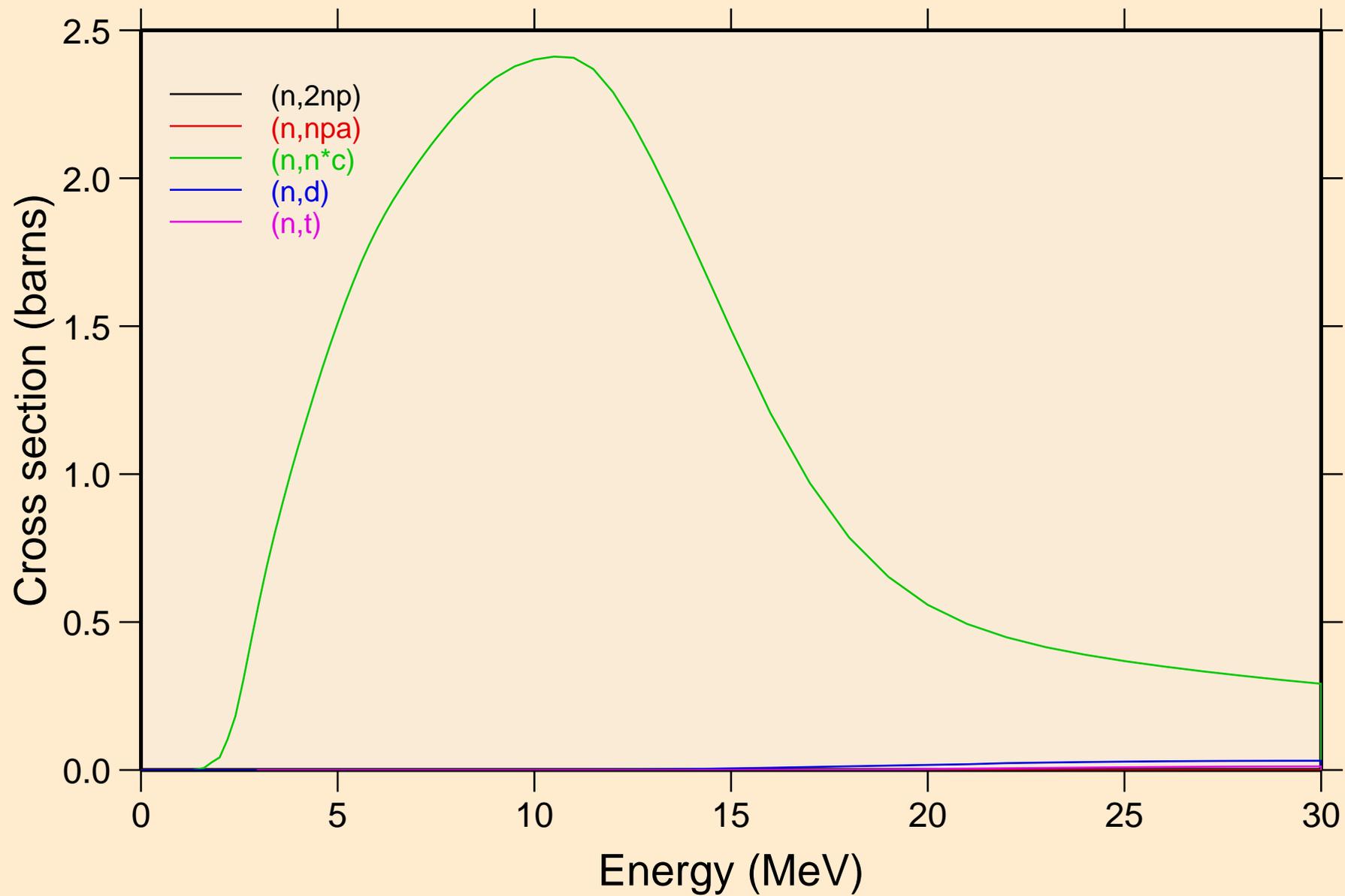
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## Threshold reactions



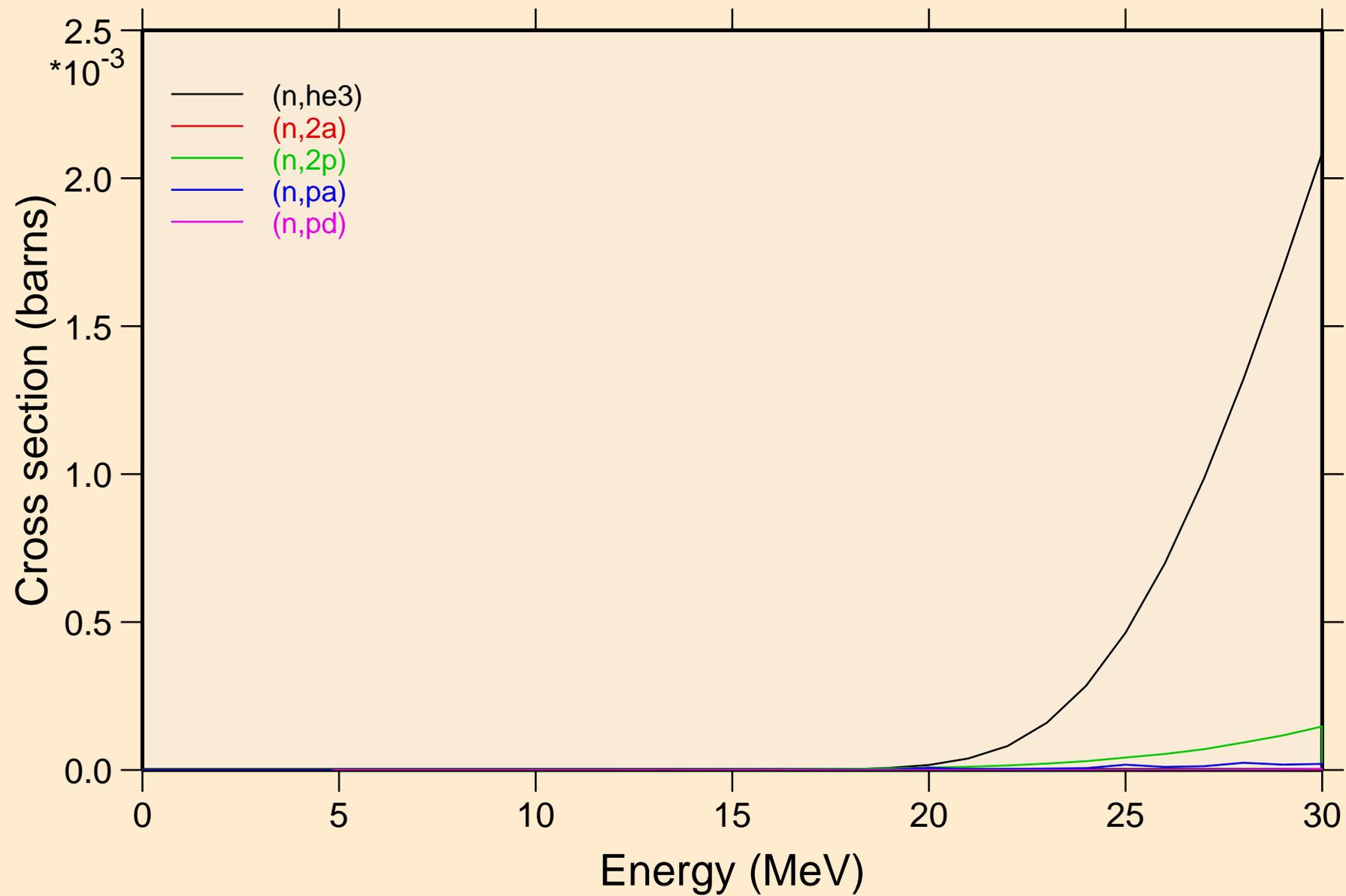
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## Threshold reactions



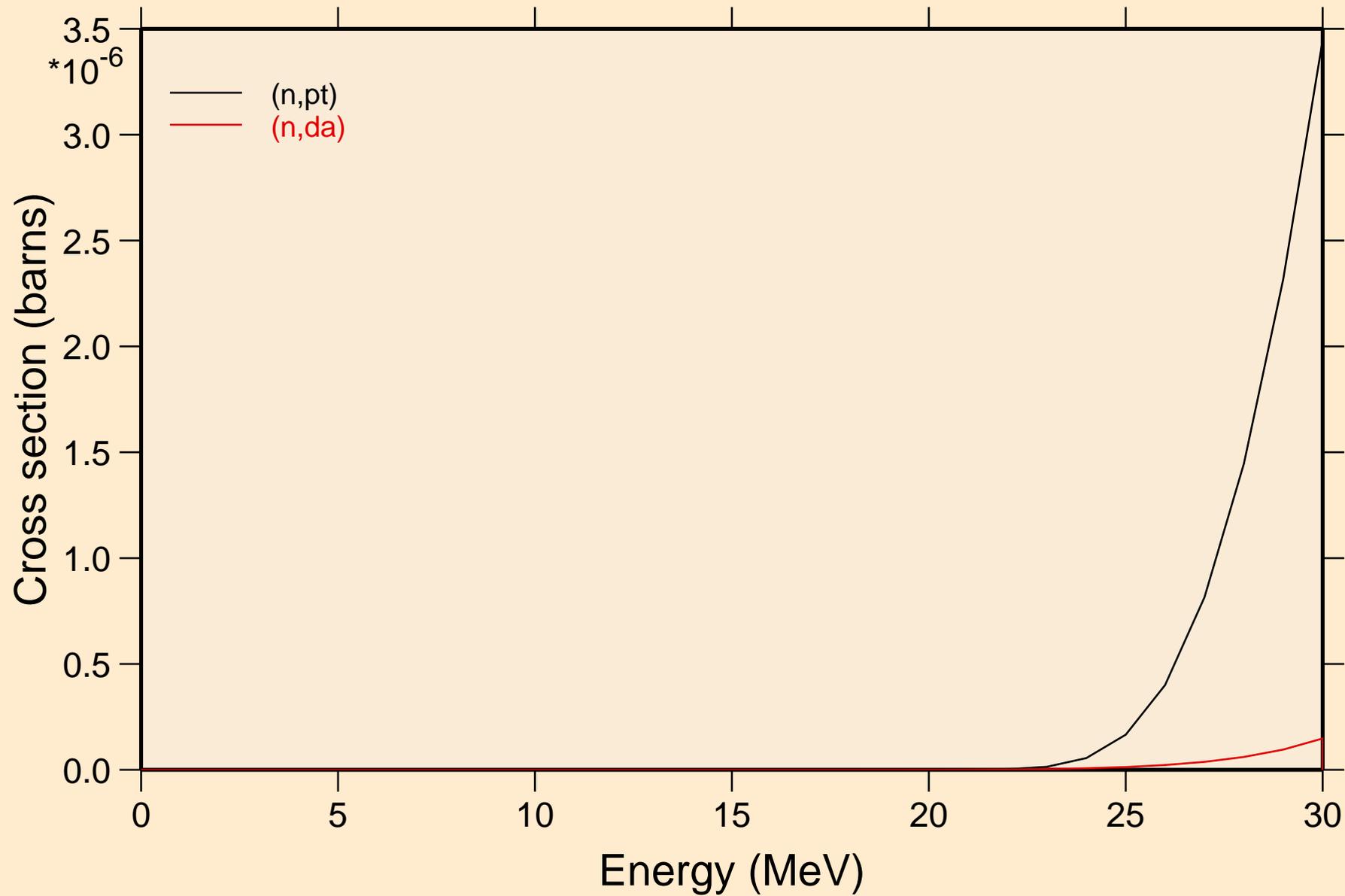
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## Threshold reactions

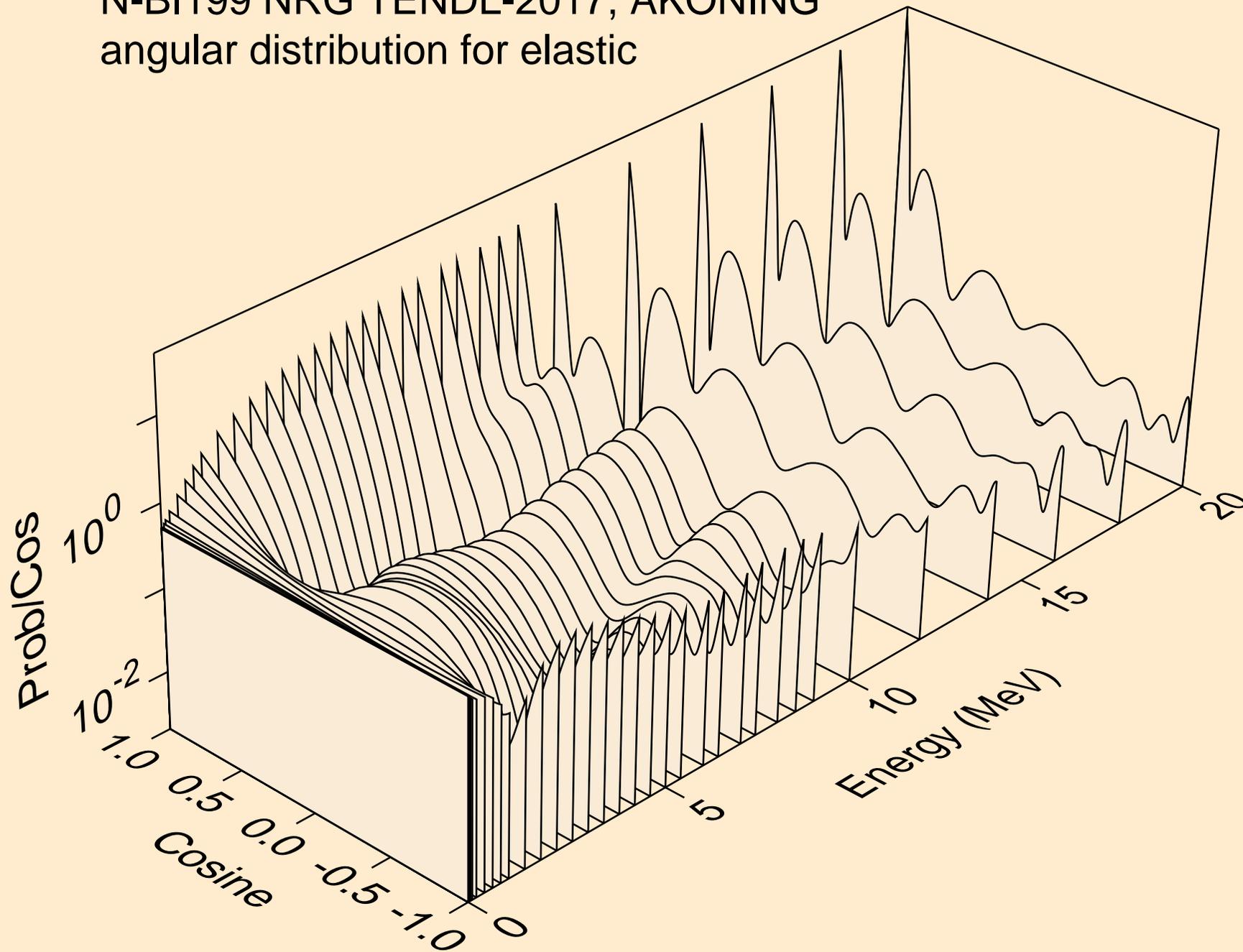


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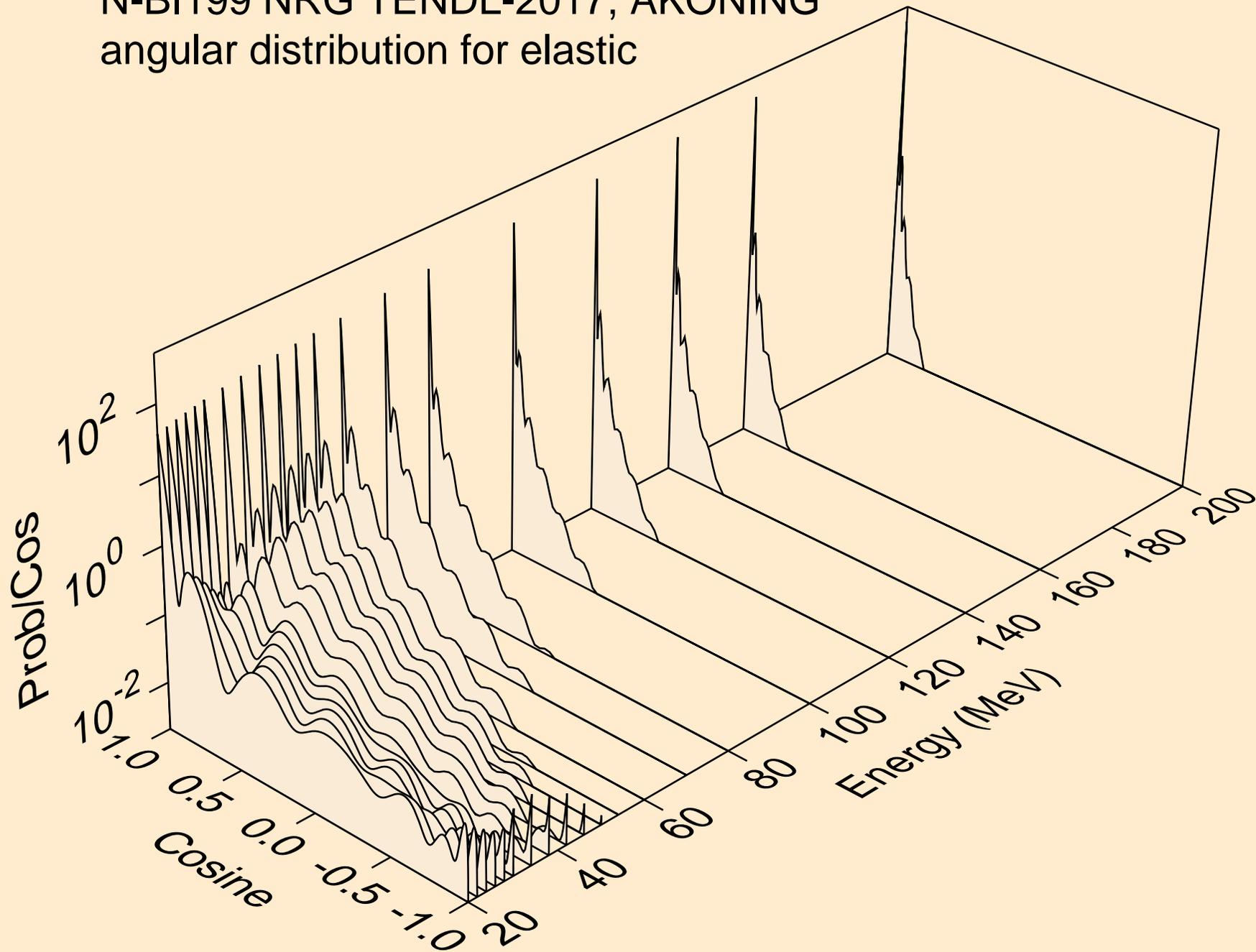
## Threshold reactions



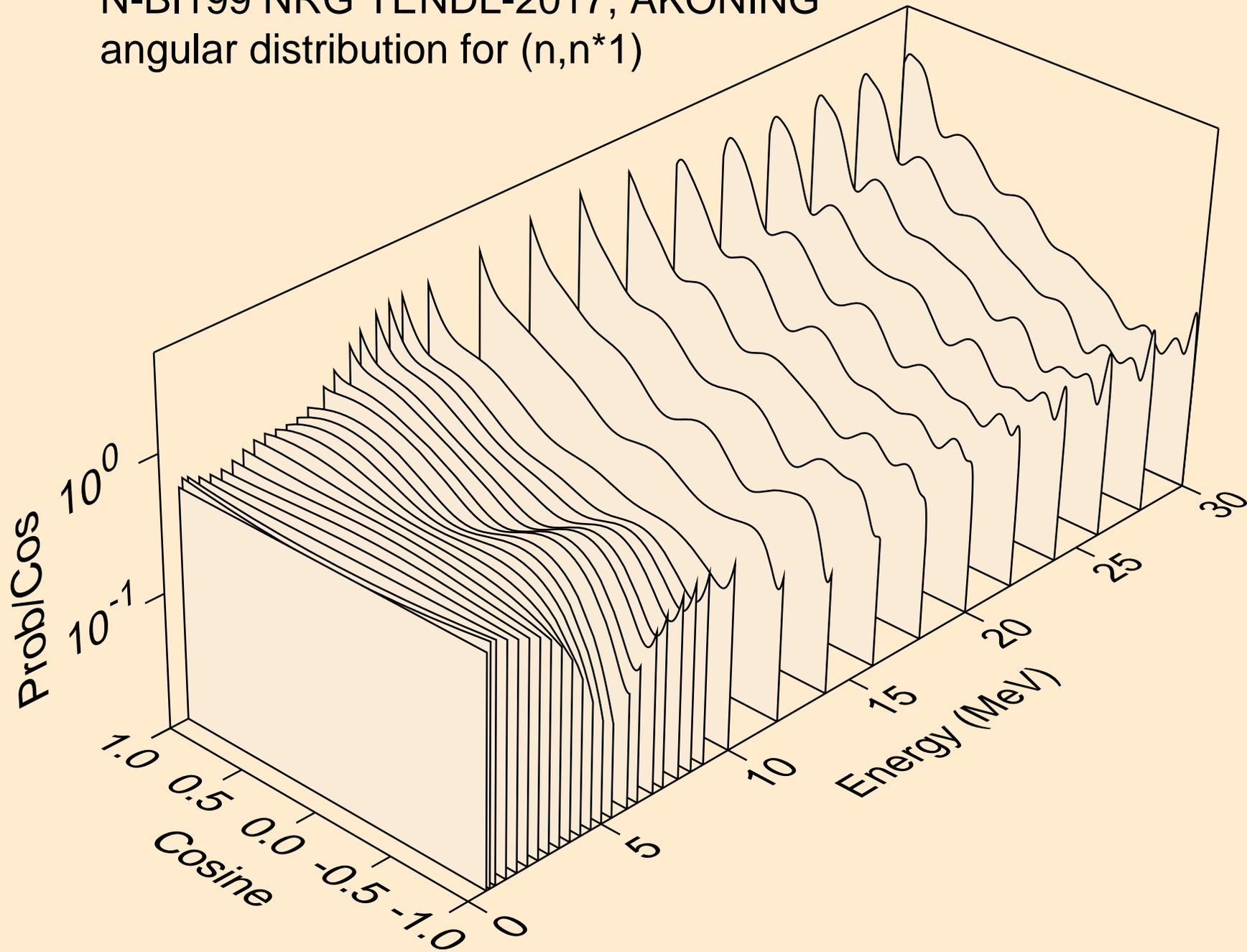
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angular distribution for elastic



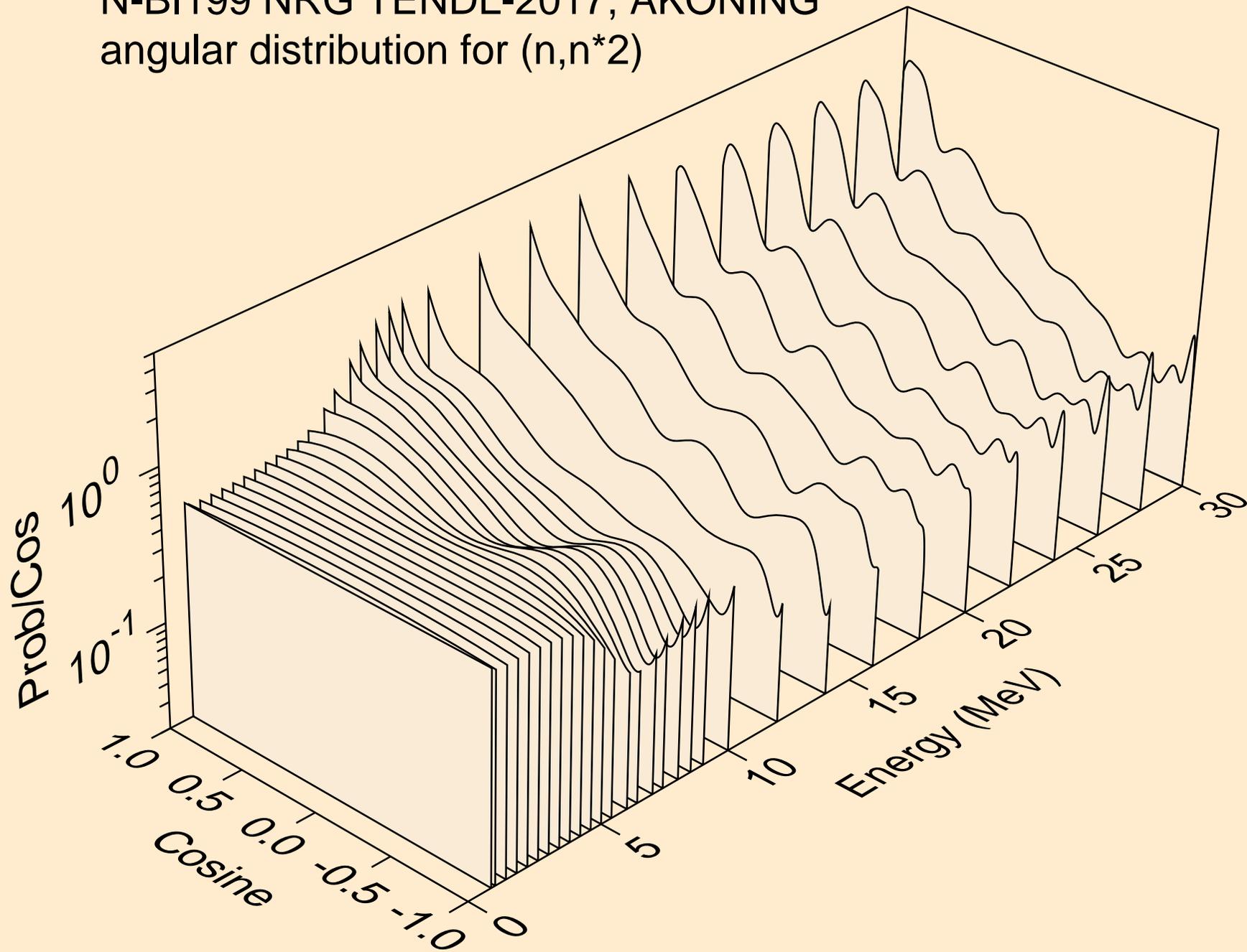
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angular distribution for elastic



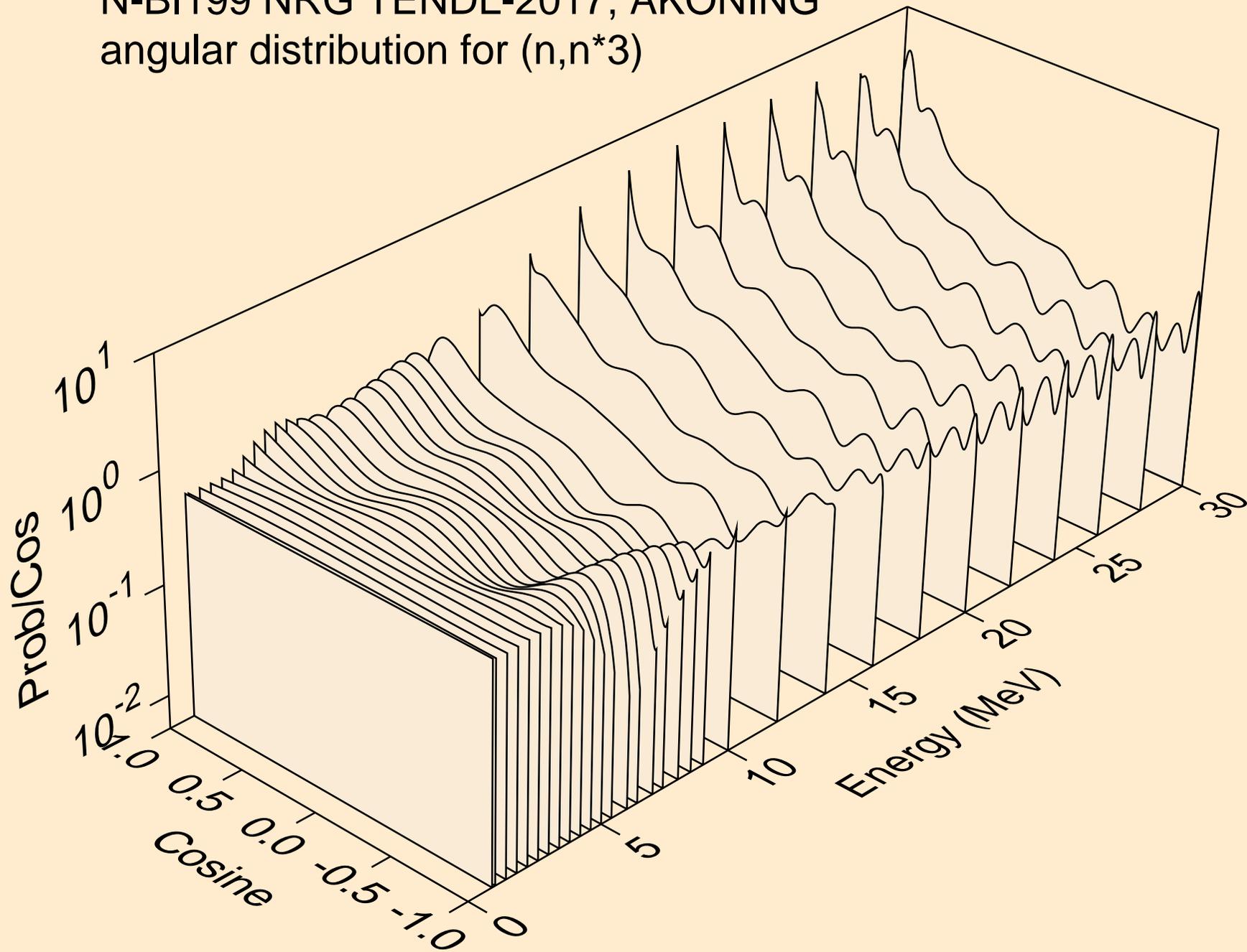
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angular distribution for (n,n\*1)



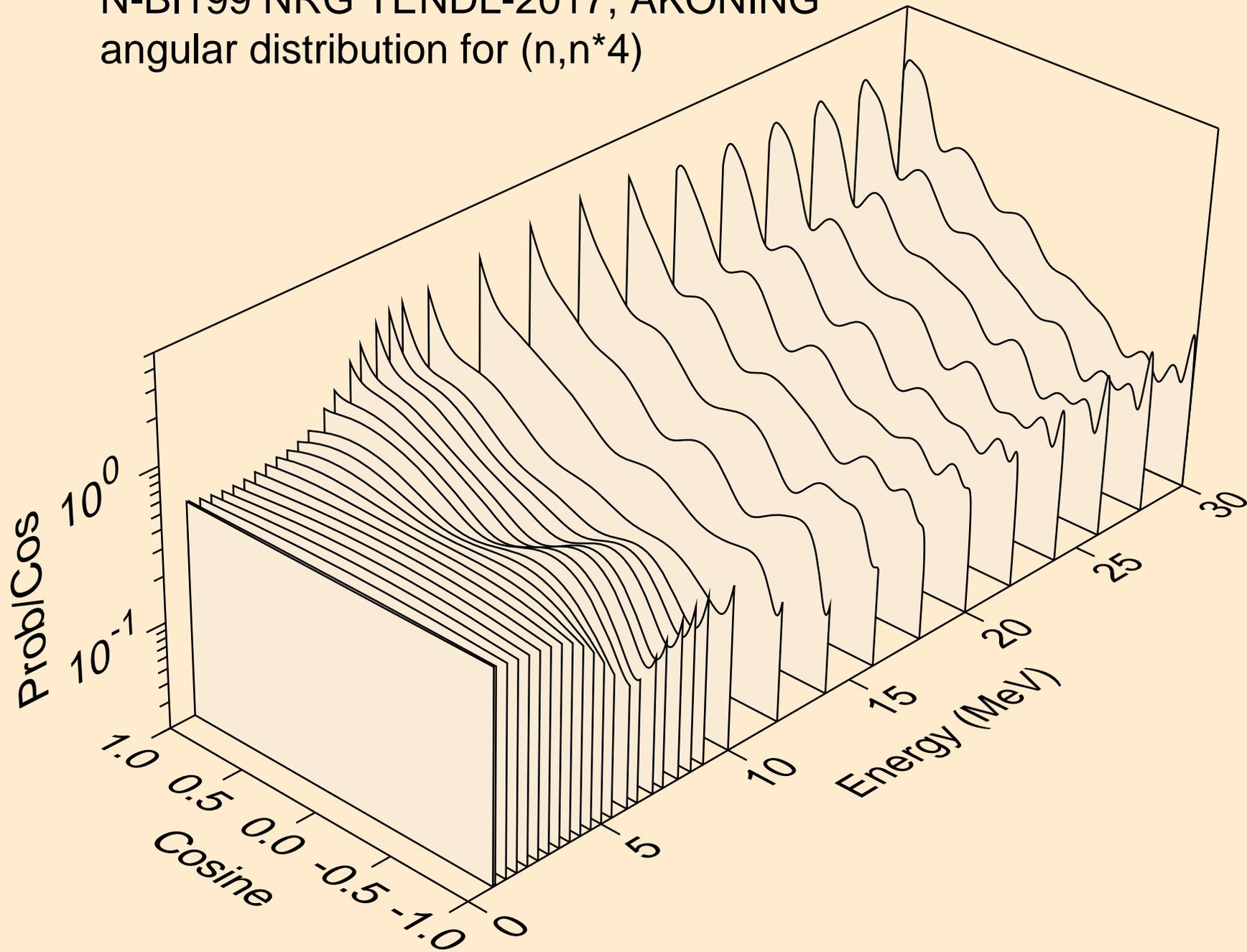
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angular distribution for (n,n\*2)



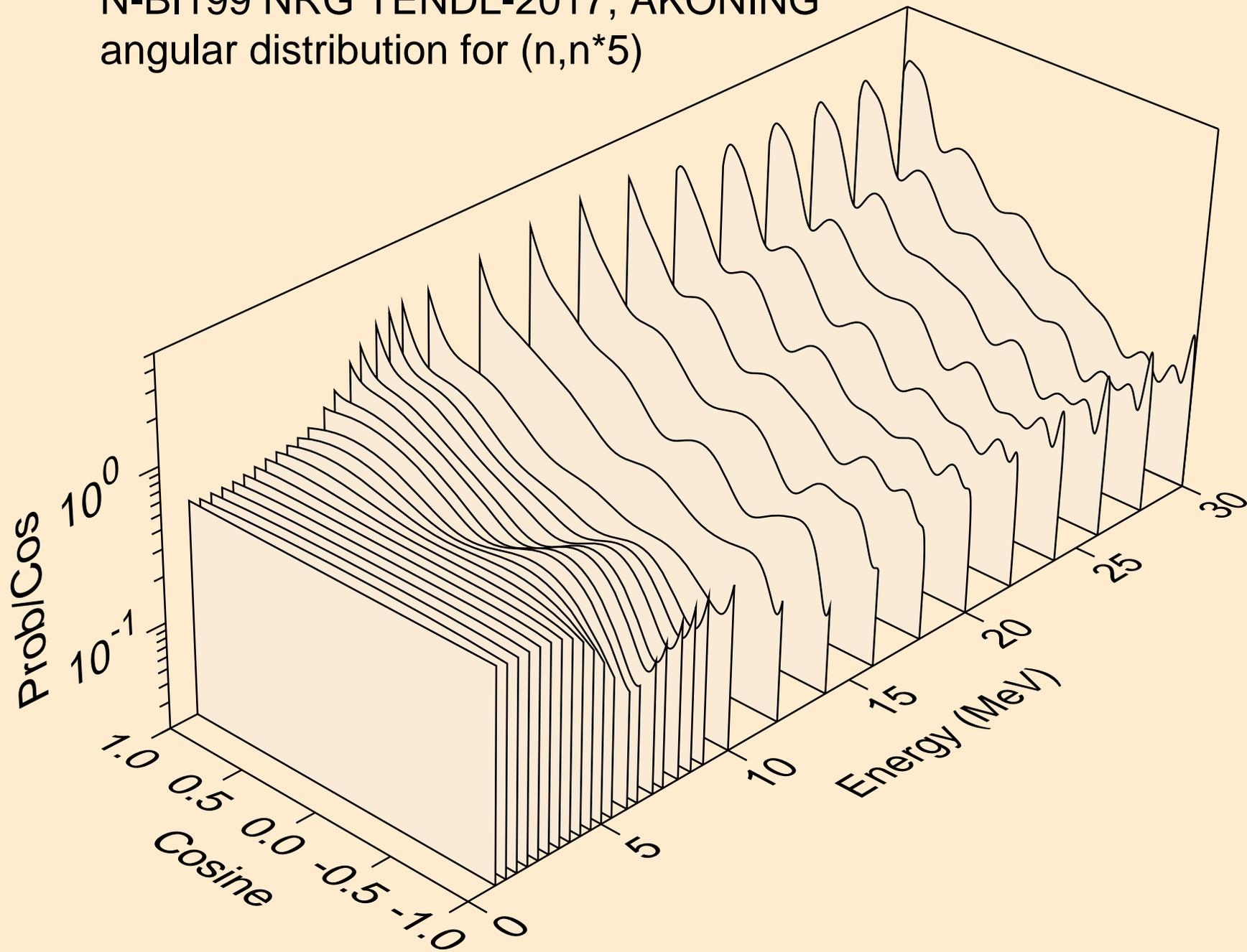
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angular distribution for (n,n\*3)



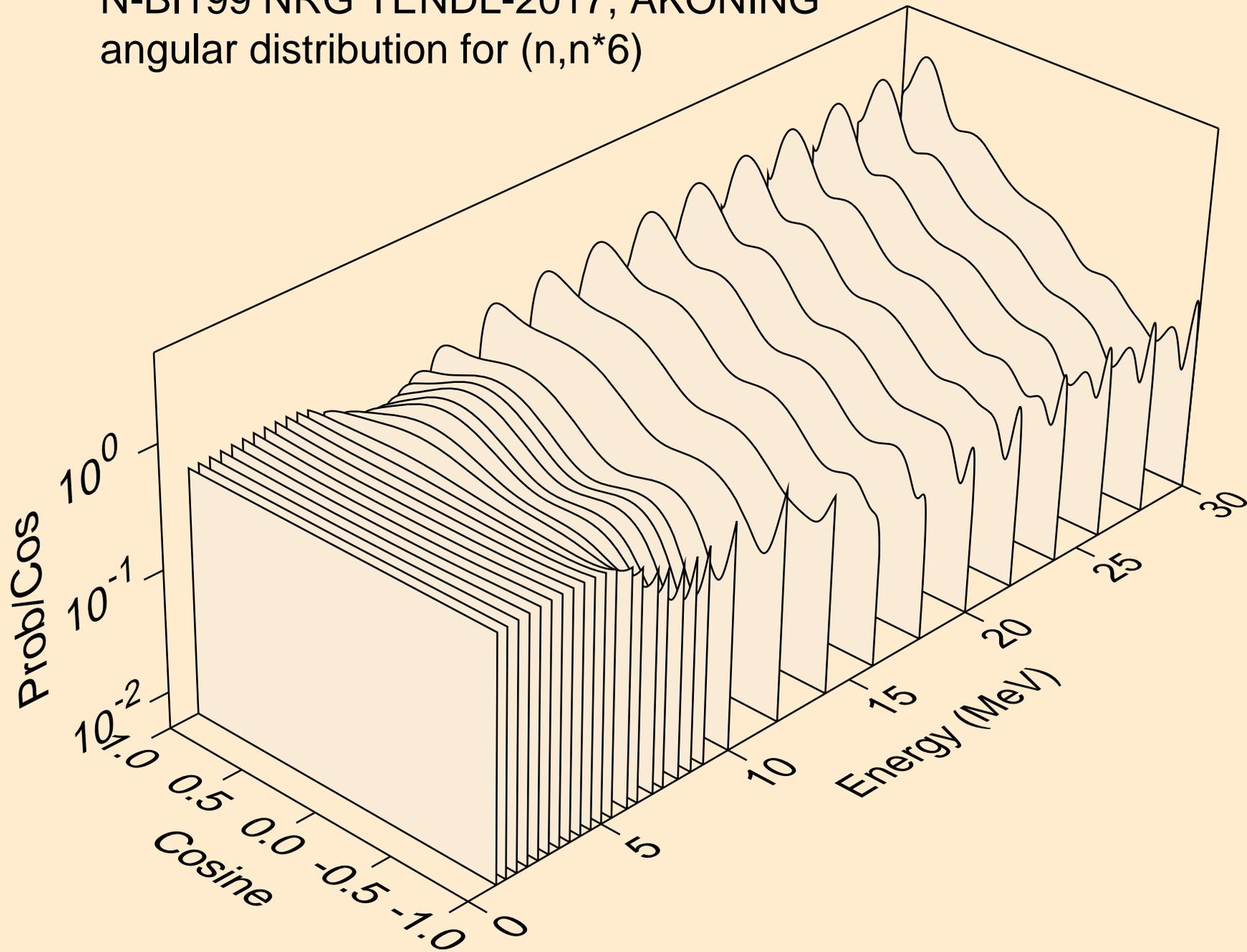
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angular distribution for (n,n\*4)



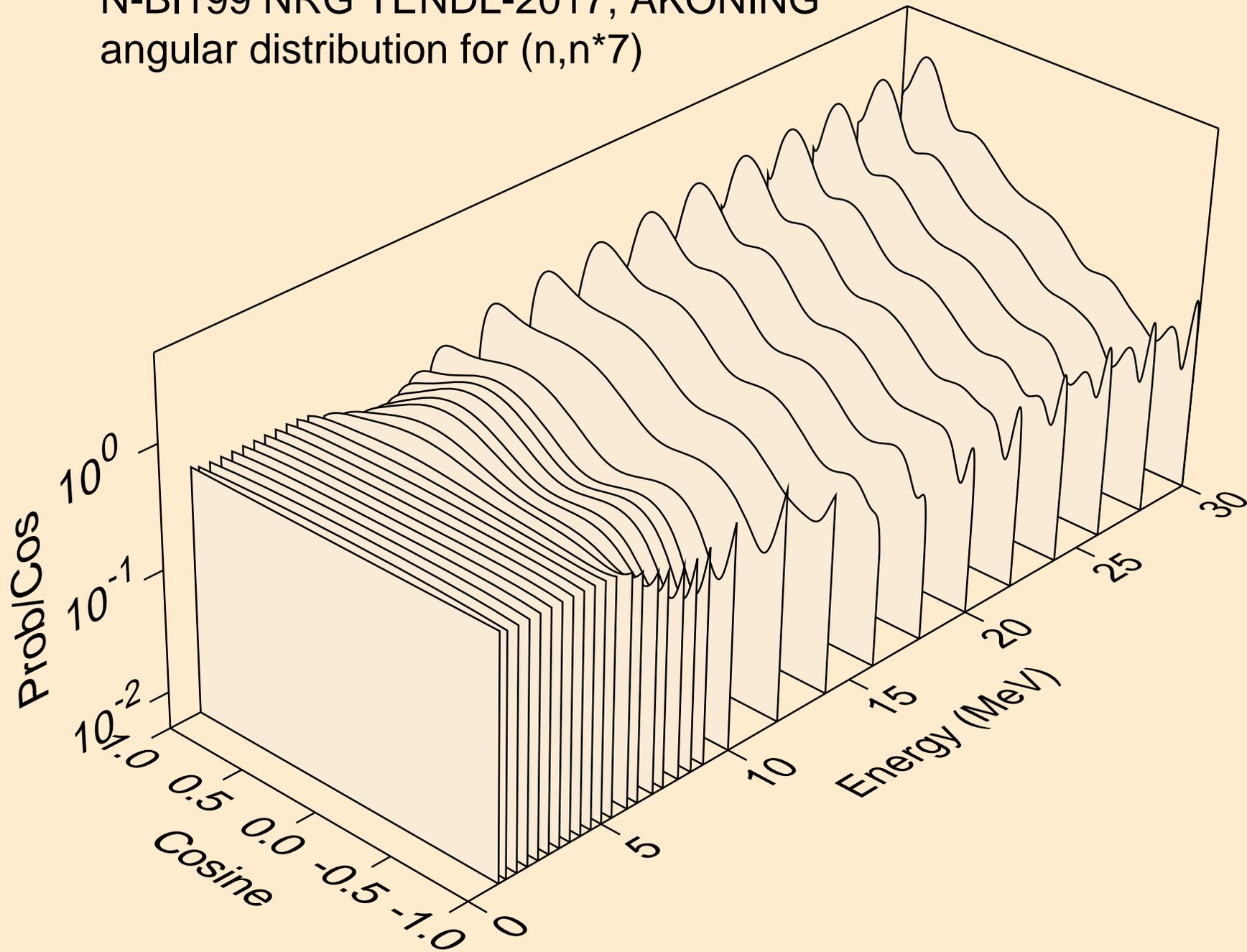
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angular distribution for (n,n\*5)



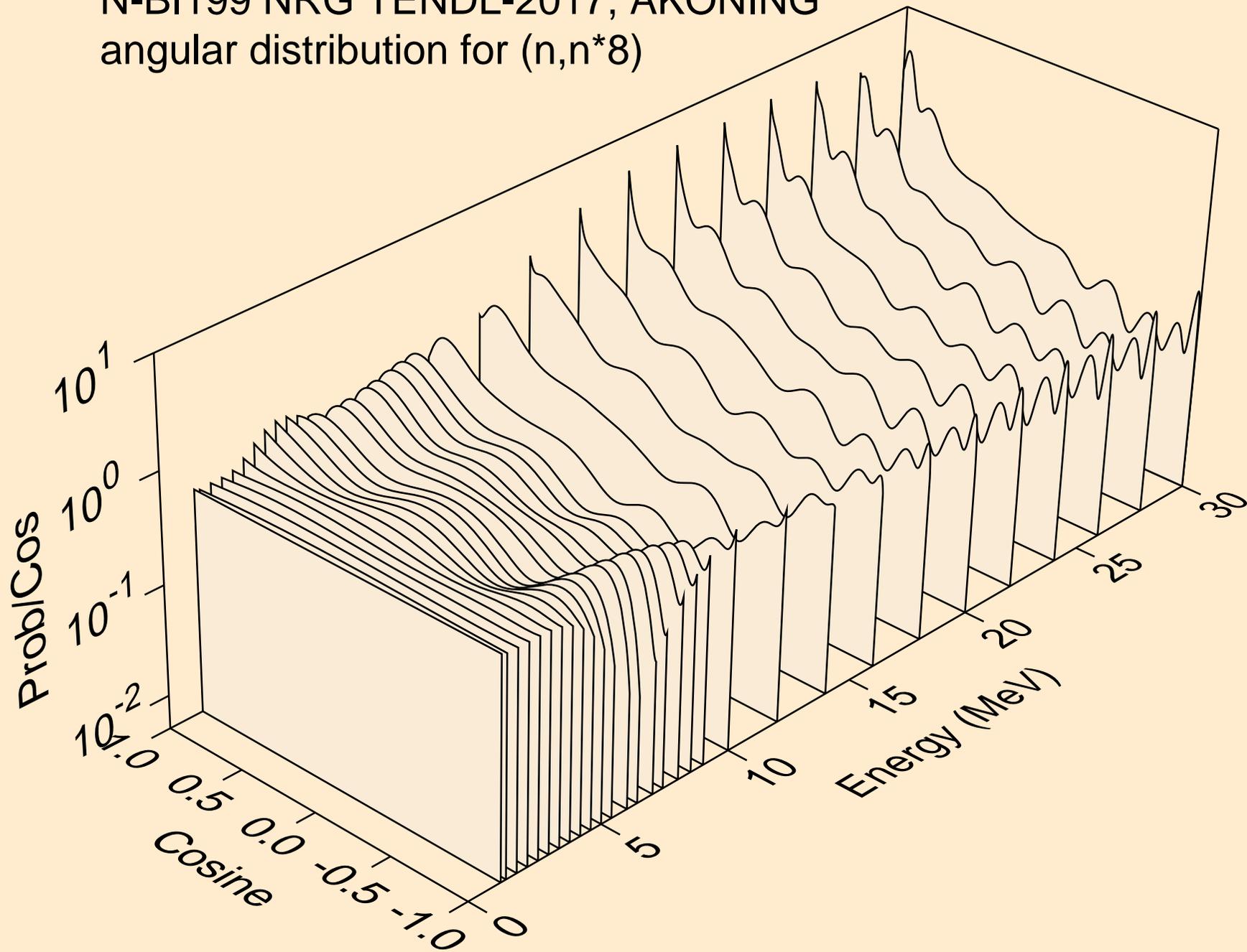
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angular distribution for (n,n\*6)



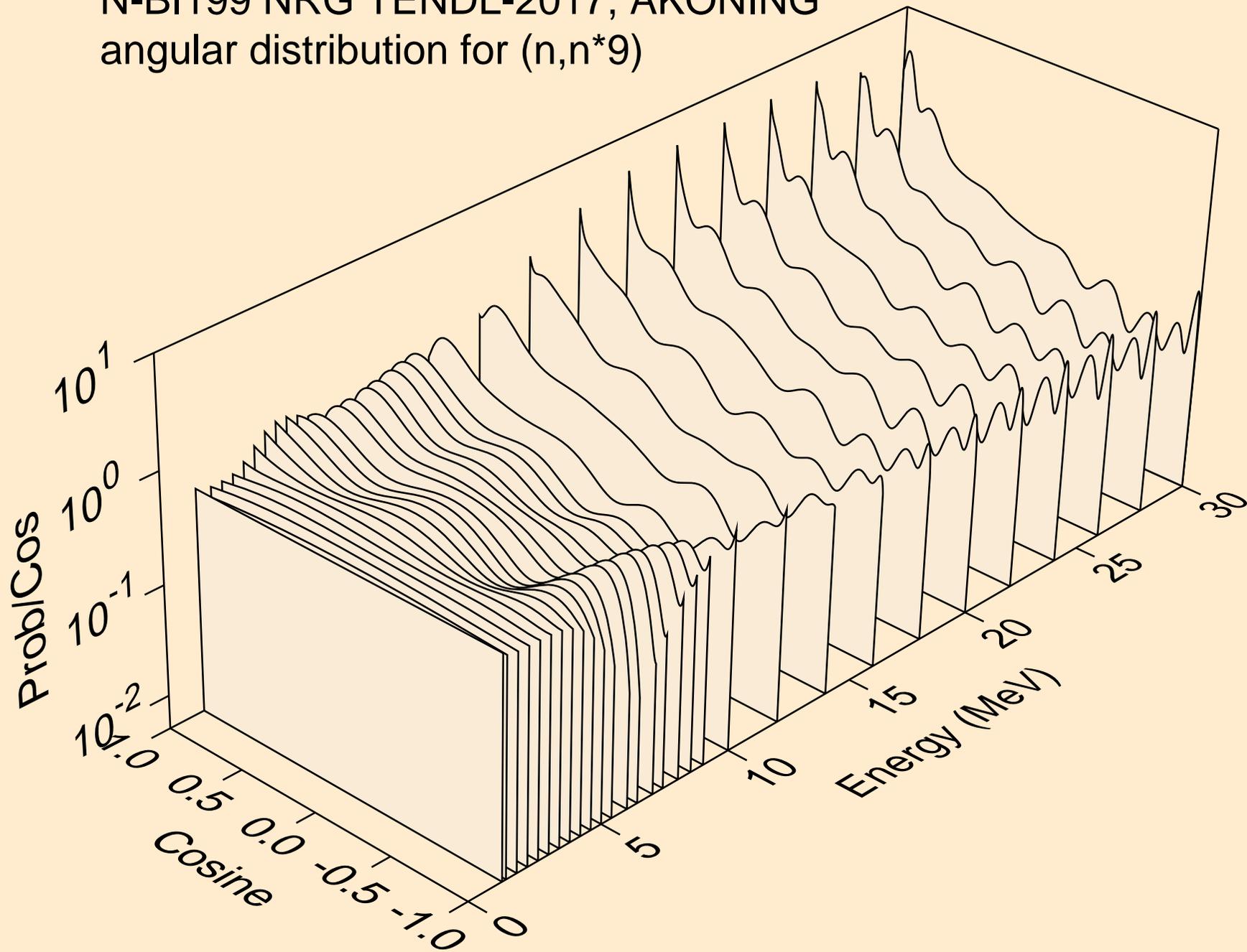
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angular distribution for (n,n\*7)



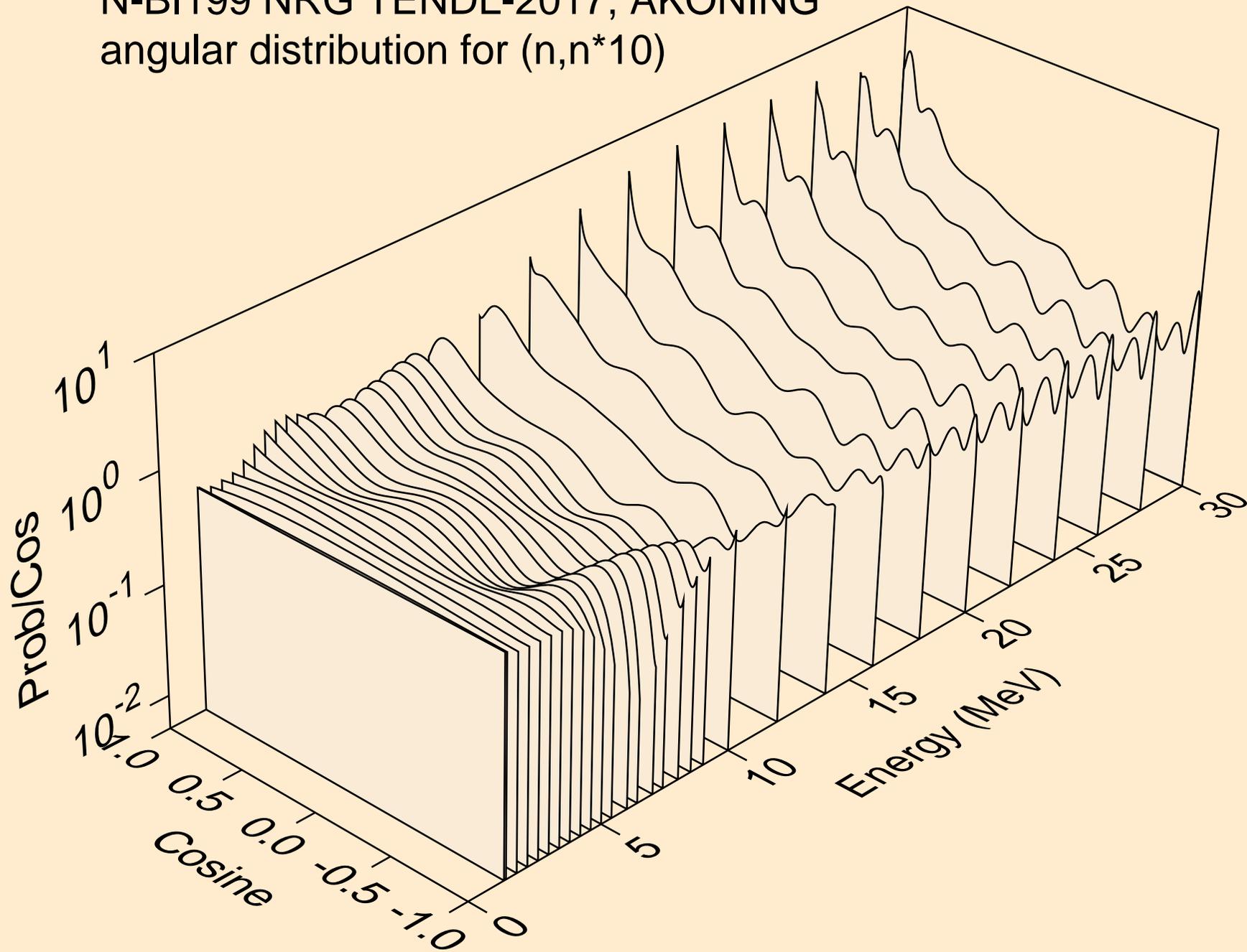
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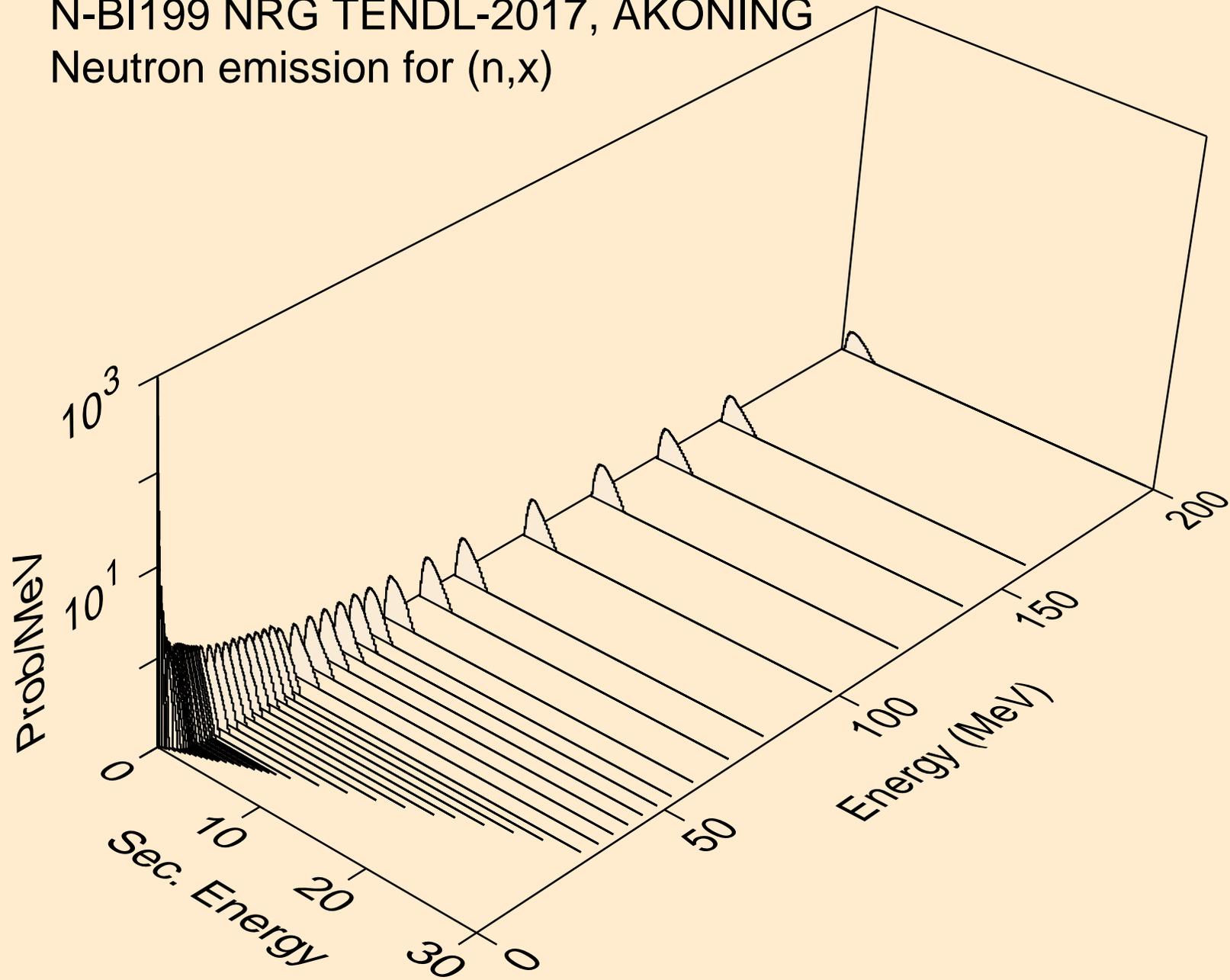
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angular distribution for (n,n\*9)



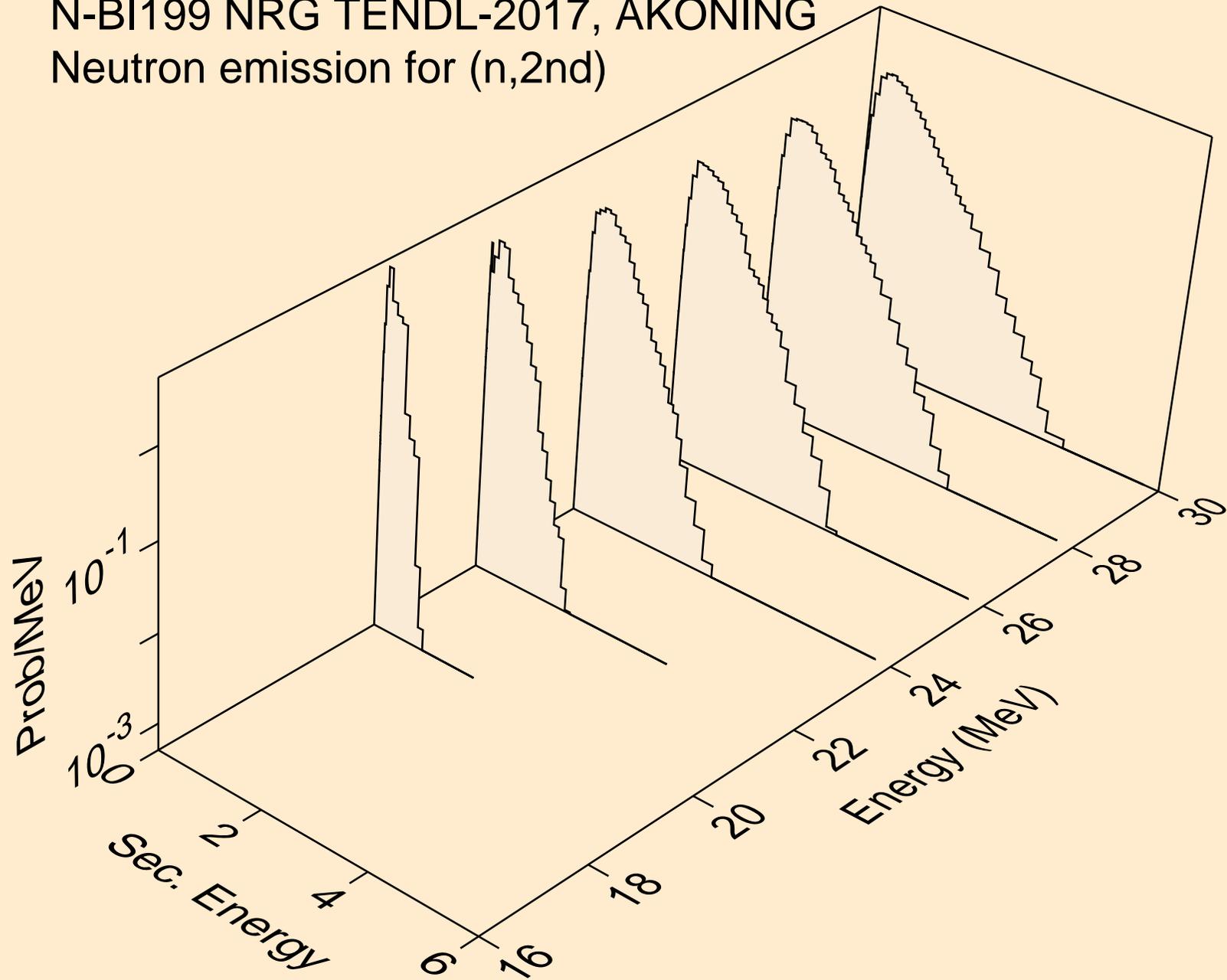
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angular distribution for (n,n\*10)



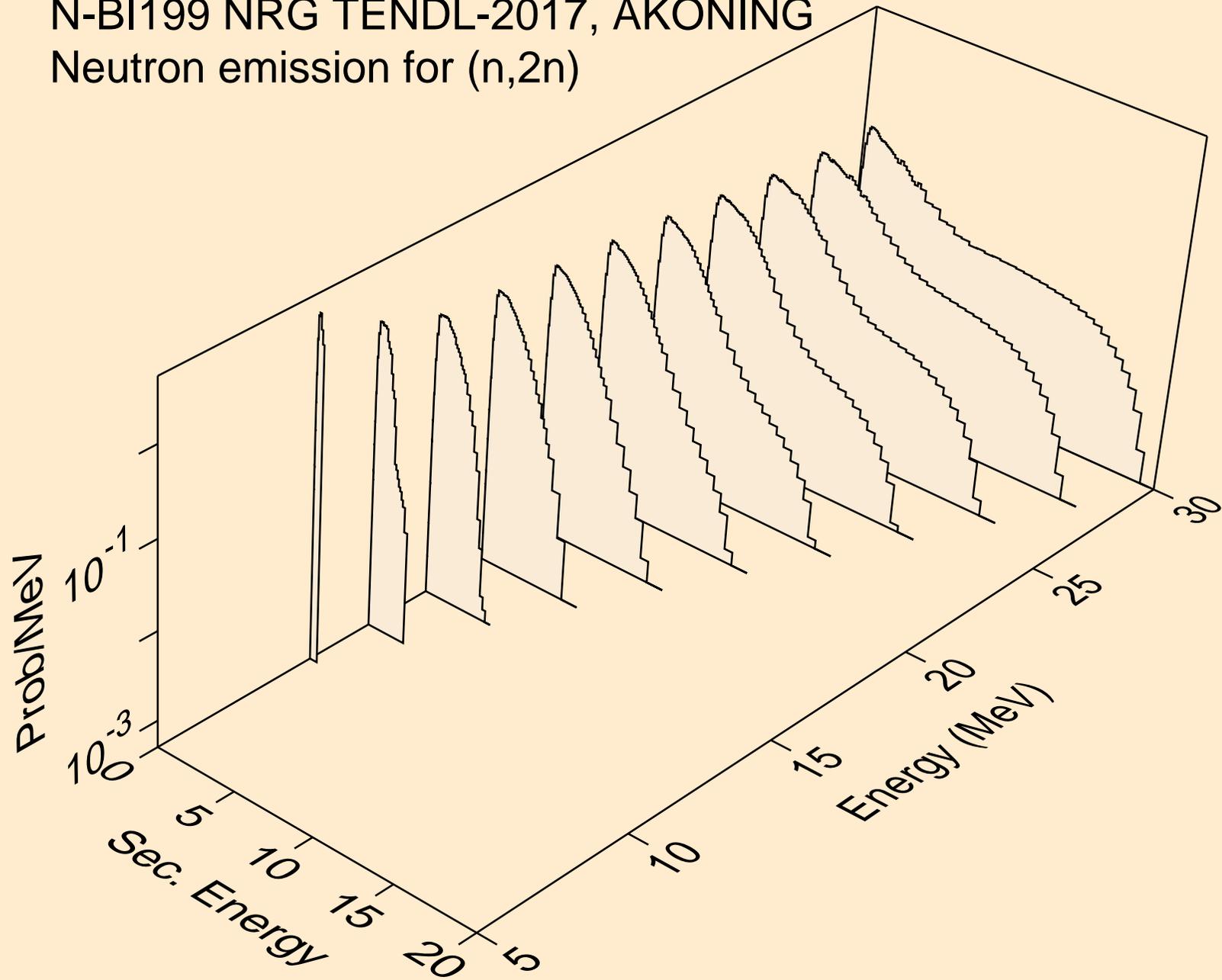
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Neutron emission for (n,x)



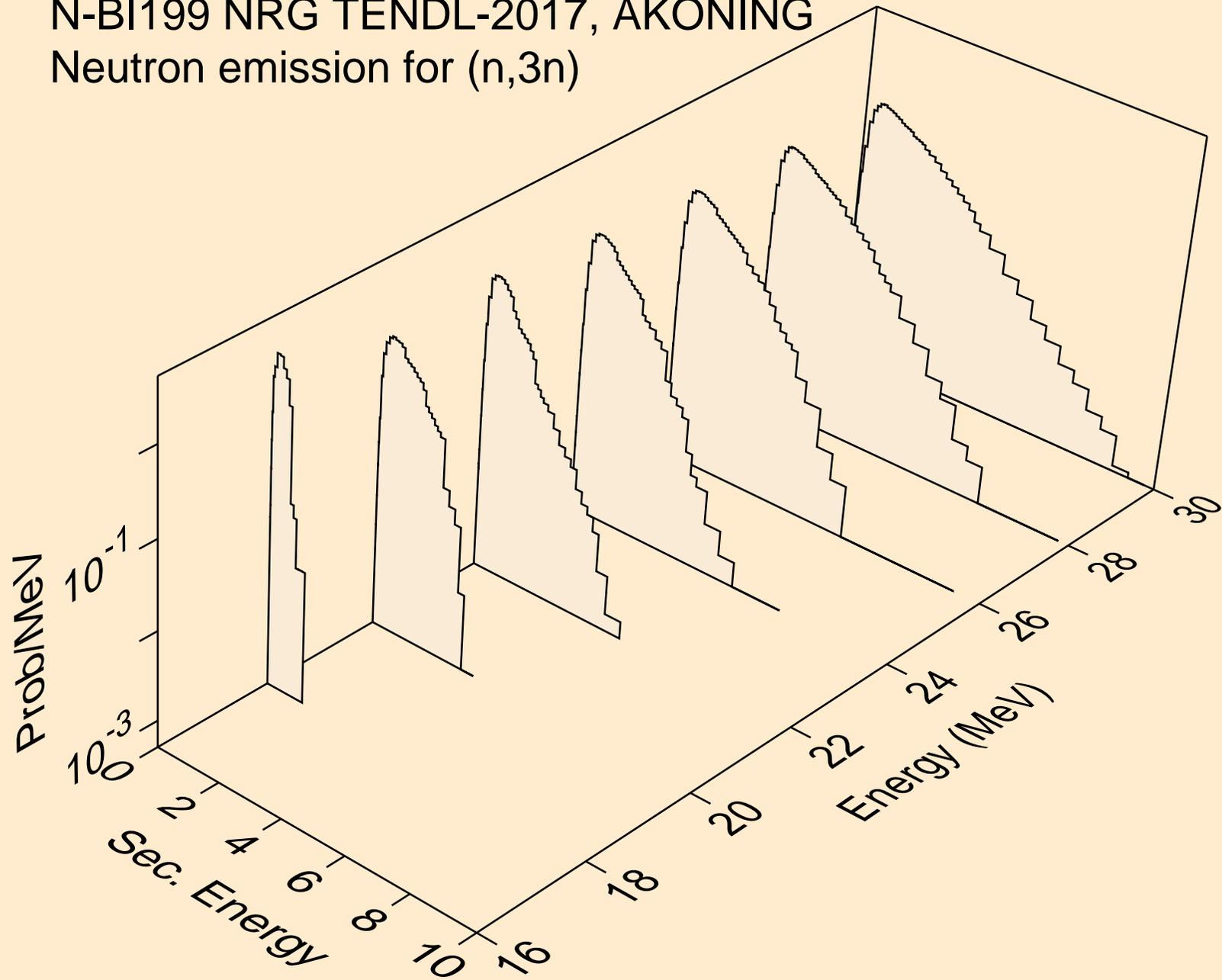
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Neutron emission for (n,2nd)



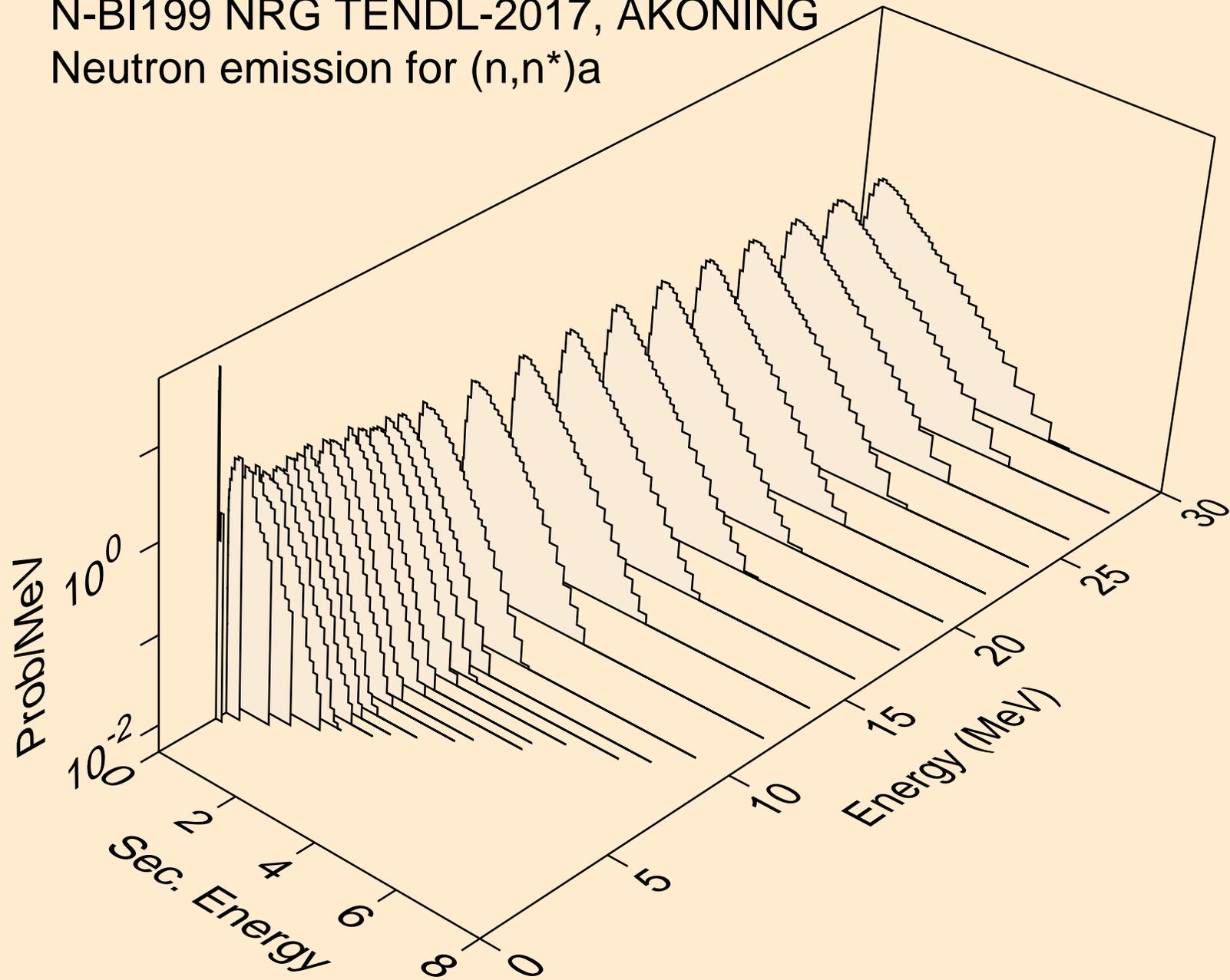
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Neutron emission for (n,2n)



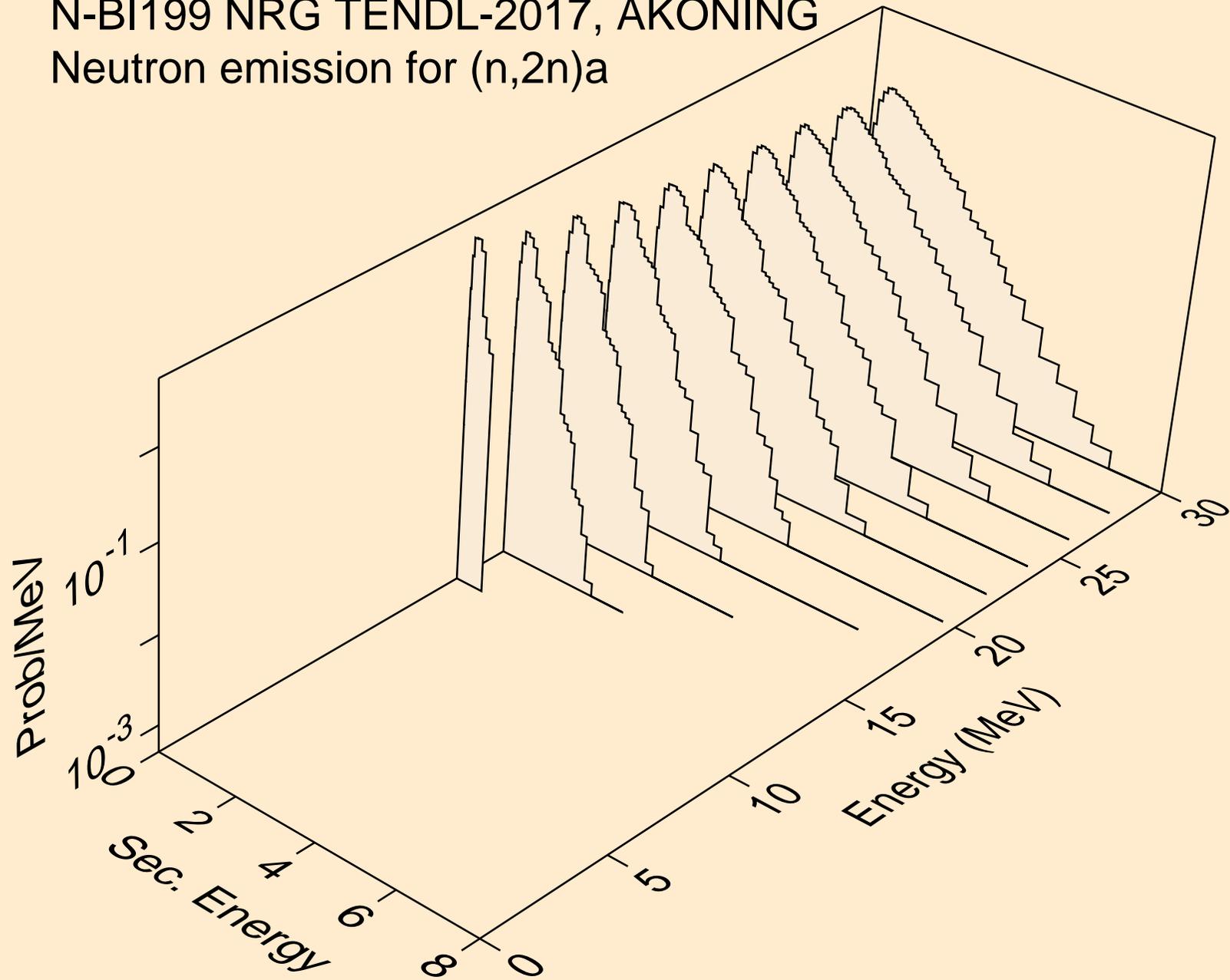
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Neutron emission for (n,3n)



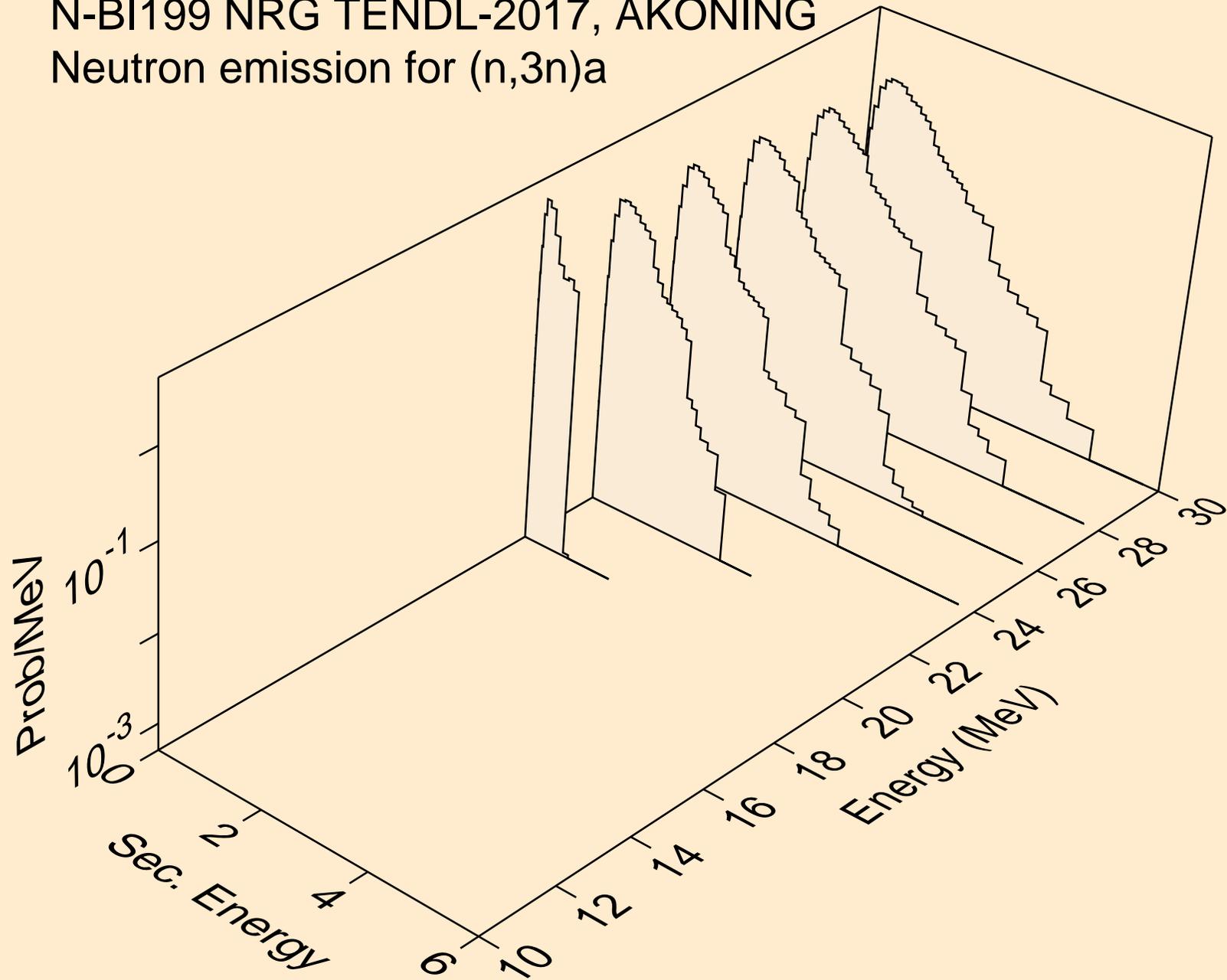
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Neutron emission for (n,n\*)a



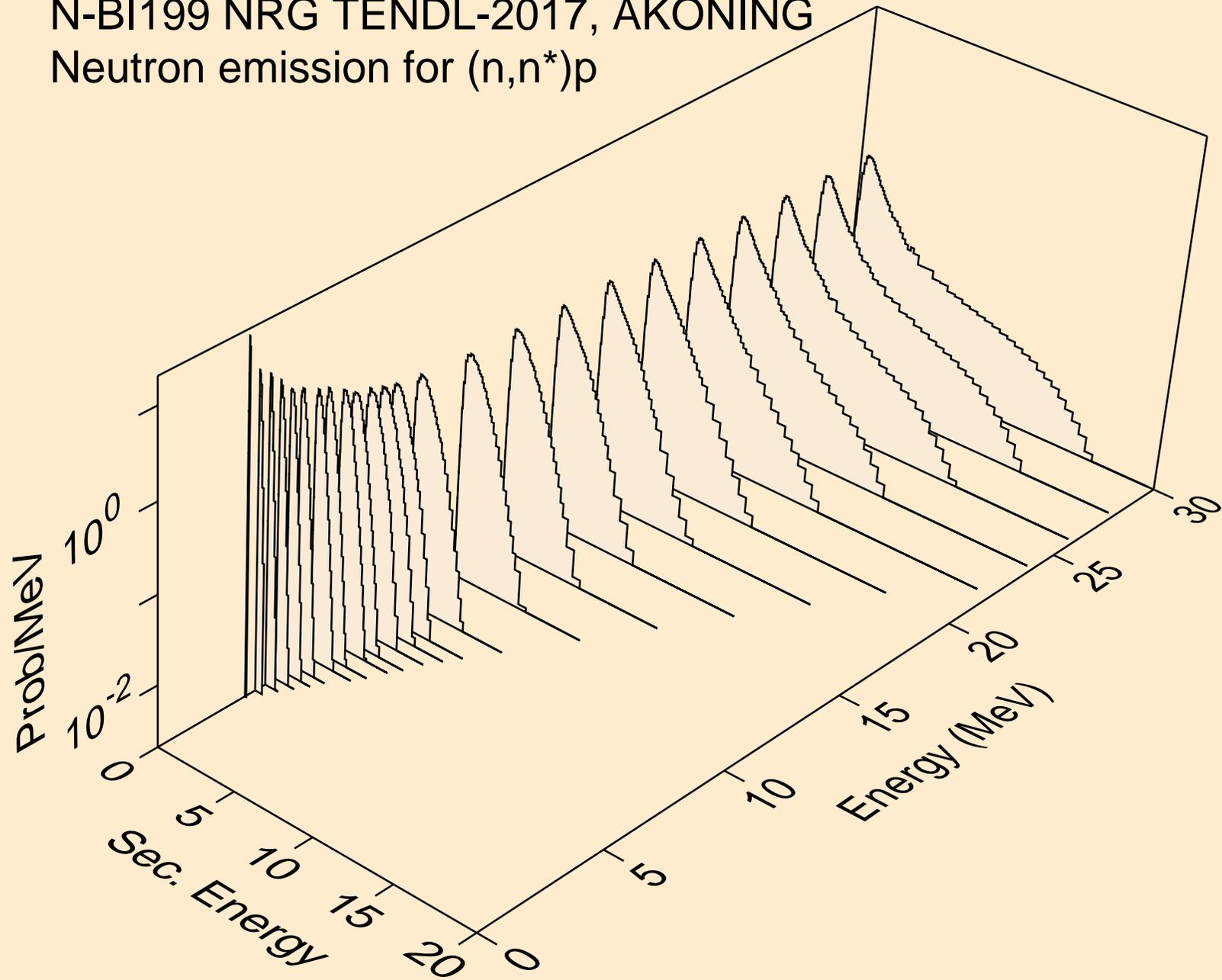
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Neutron emission for (n,2n)a



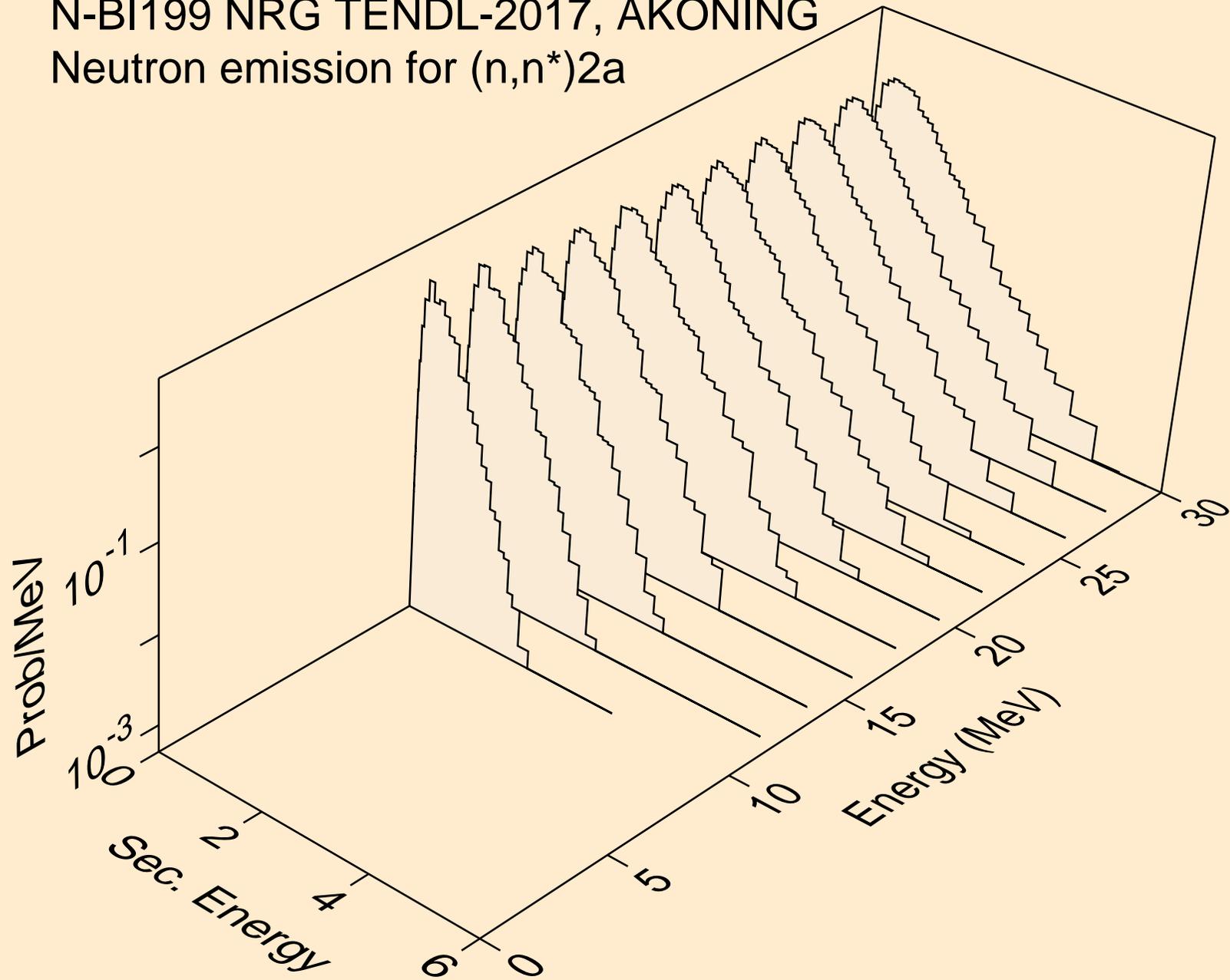
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Neutron emission for (n,3n)a



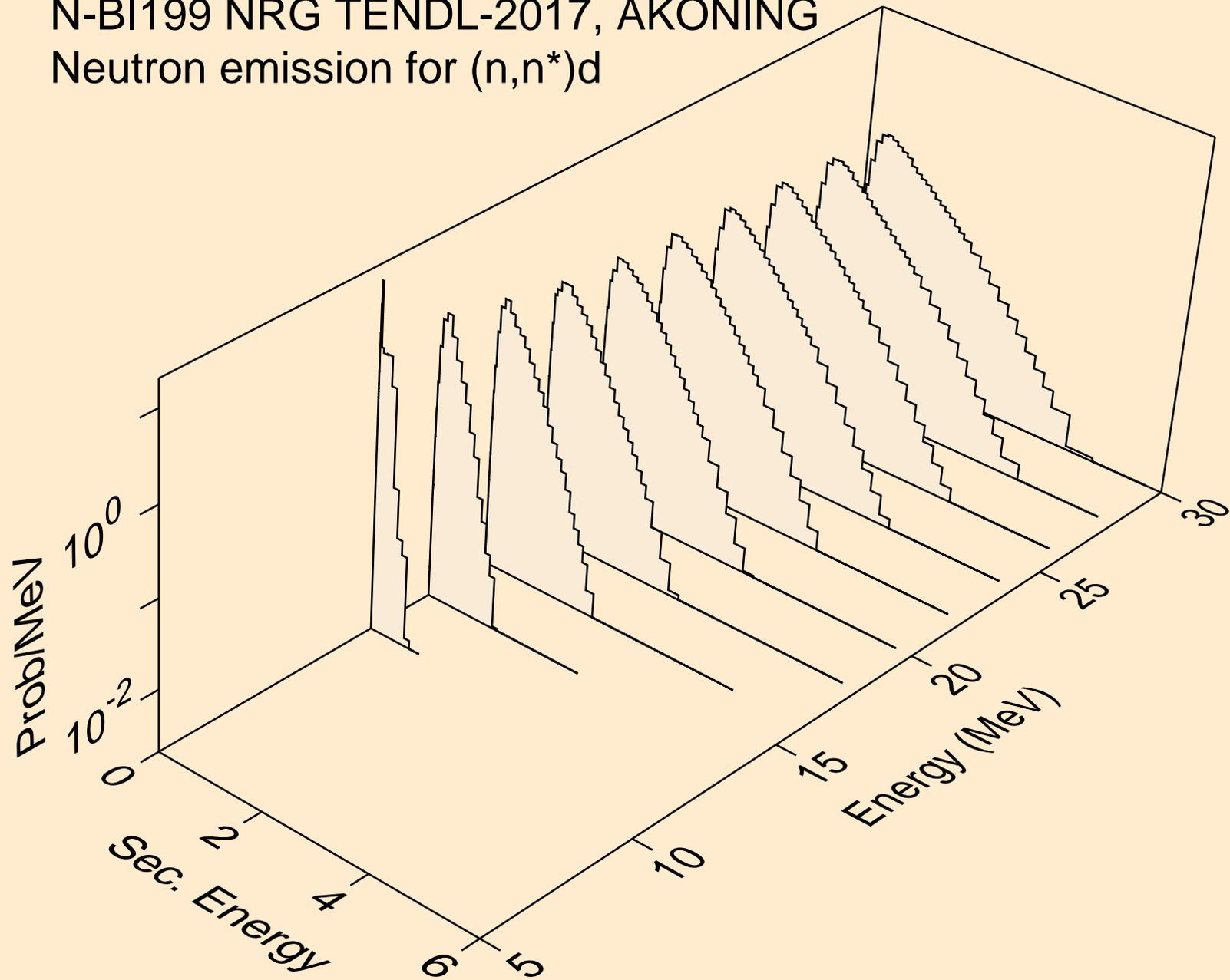
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Neutron emission for (n,n\*)p



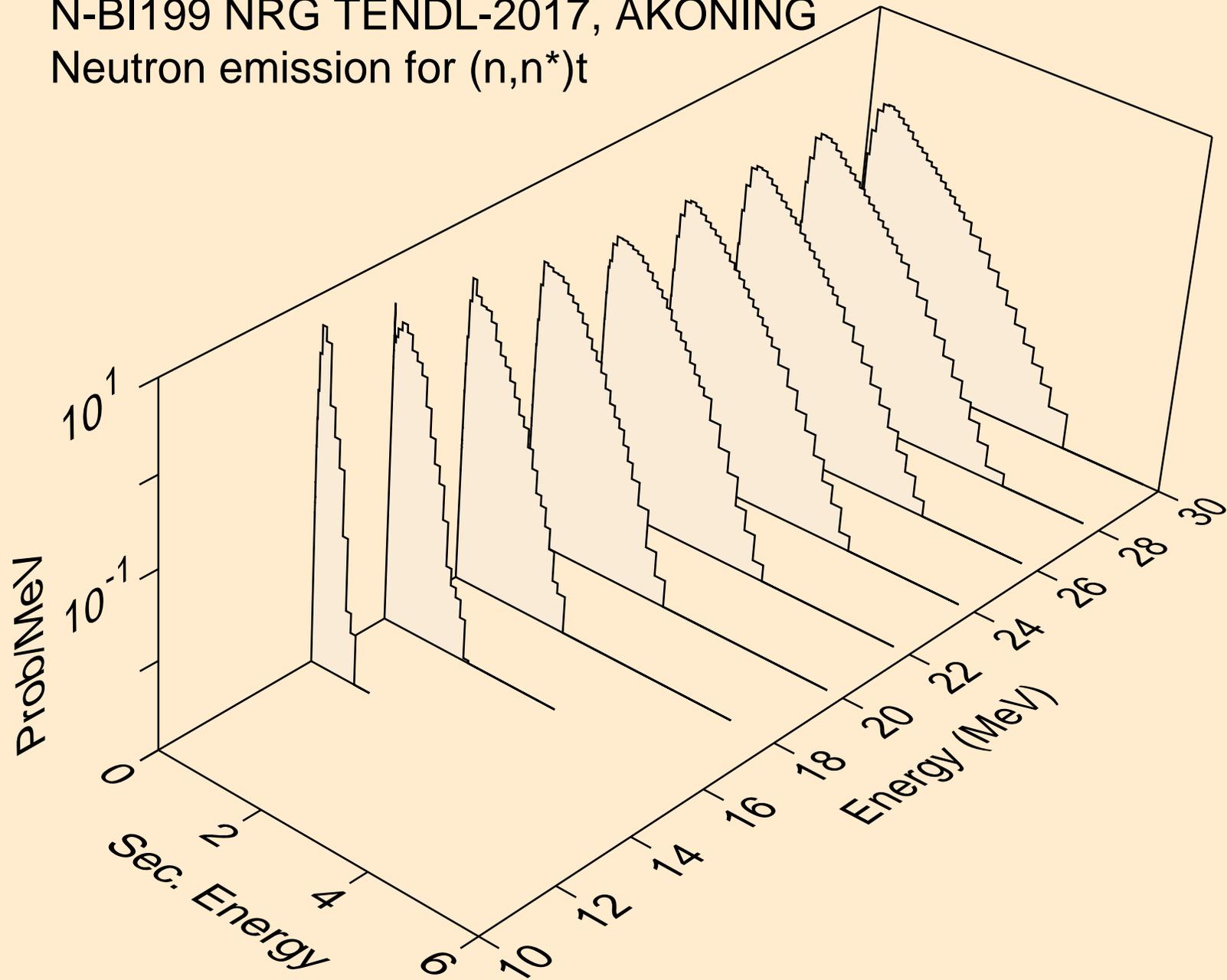
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Neutron emission for (n,n\*)2a



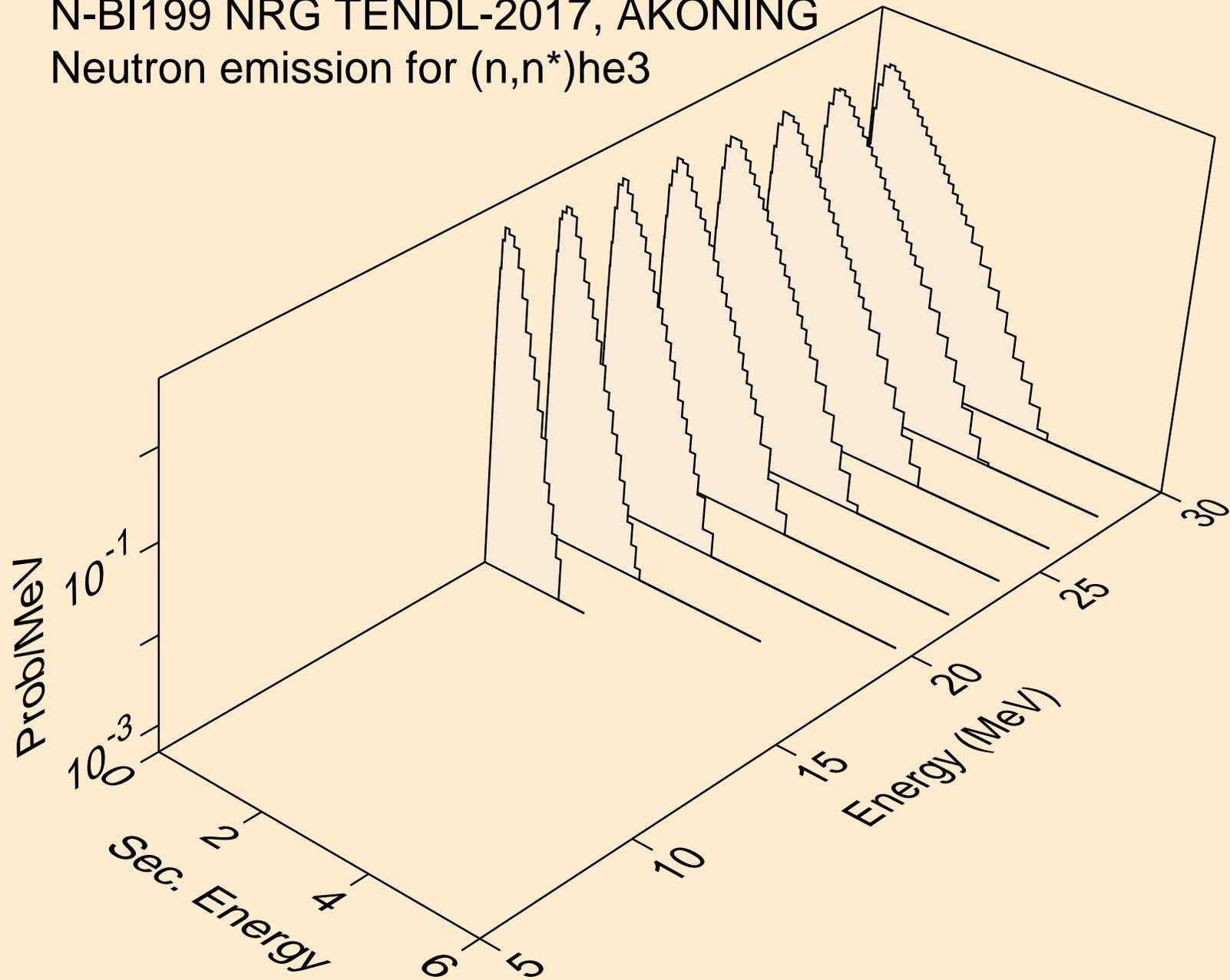
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Neutron emission for (n,n\*)d



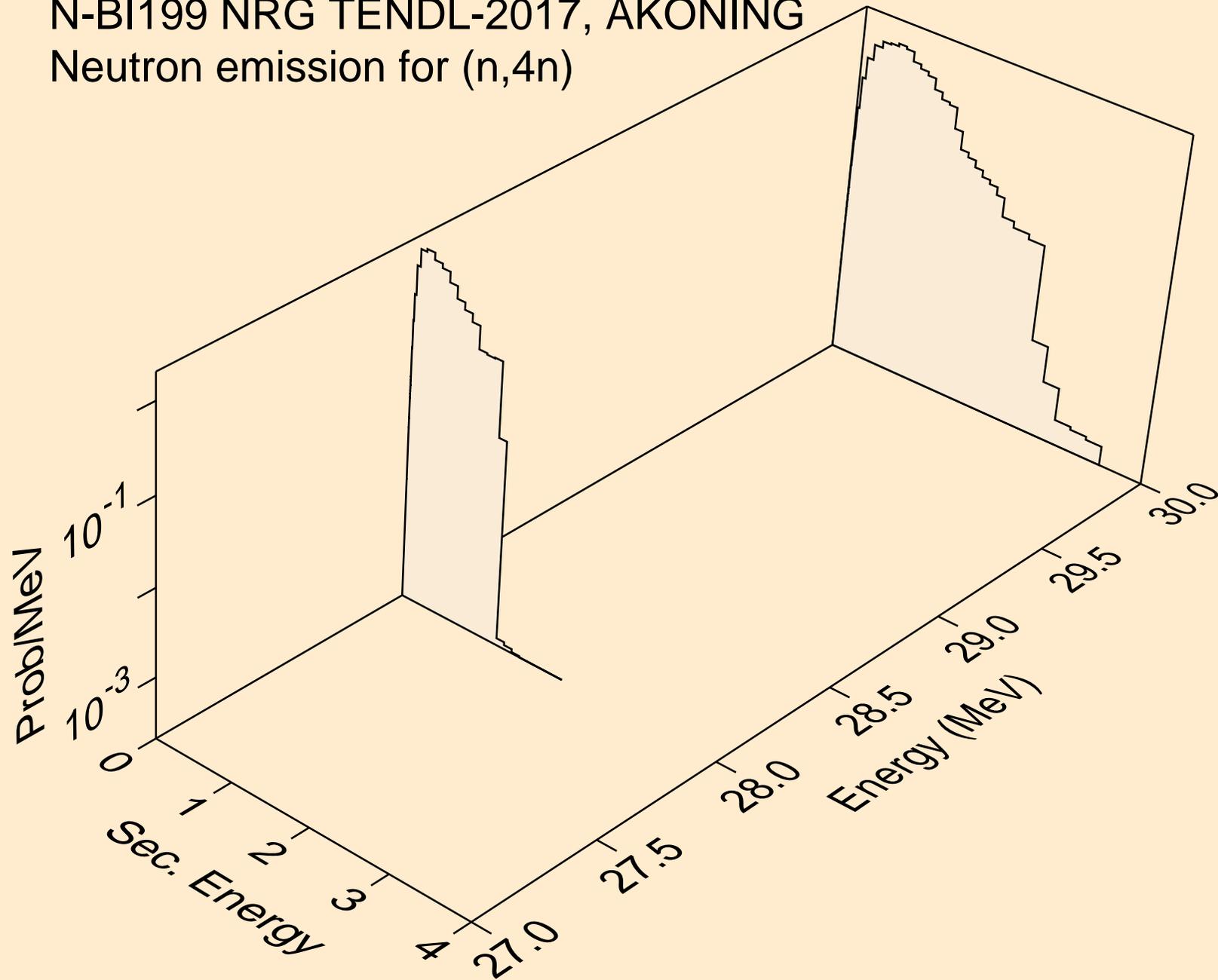
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Neutron emission for (n,n\*)t



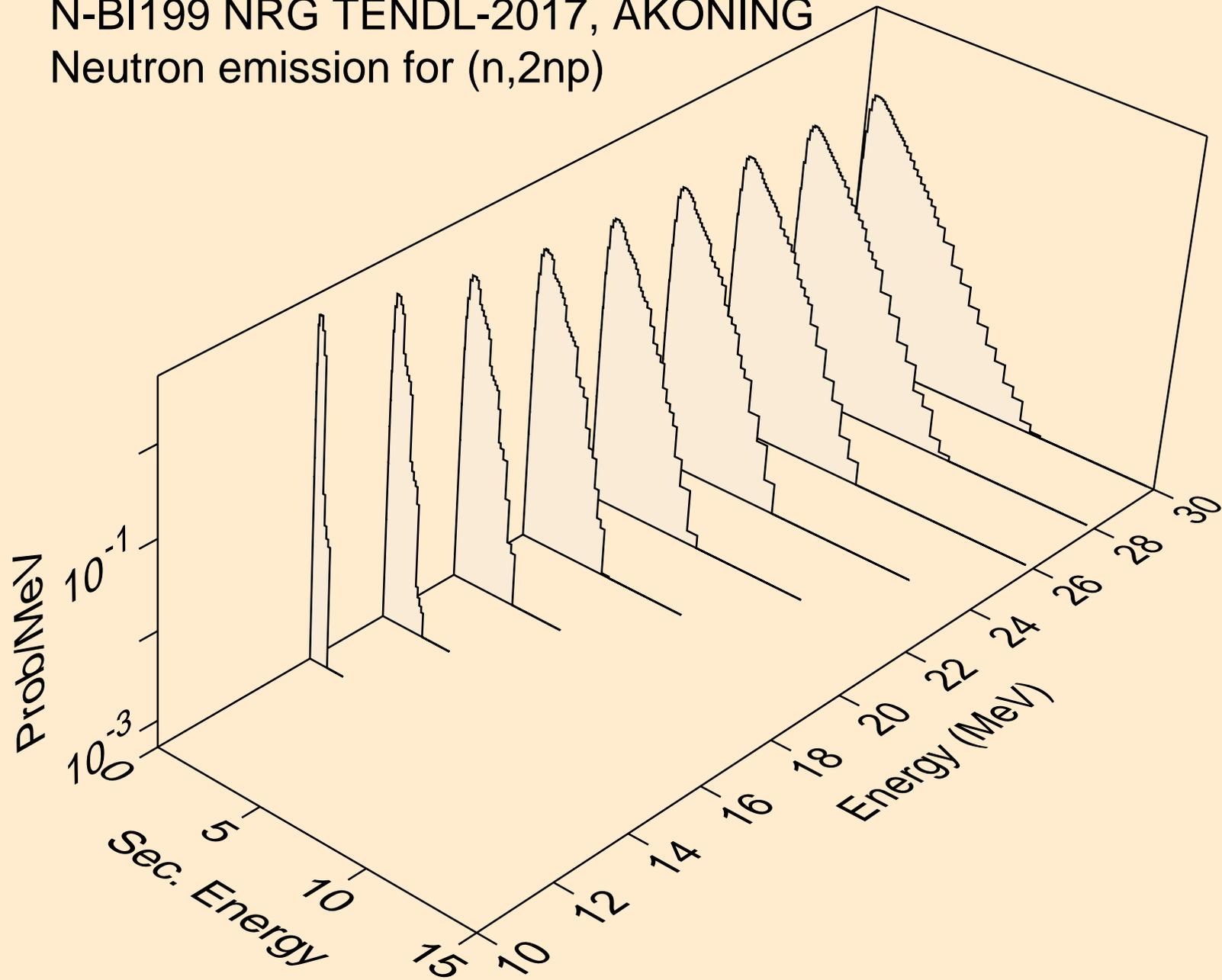
N-BI199 NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*)he3



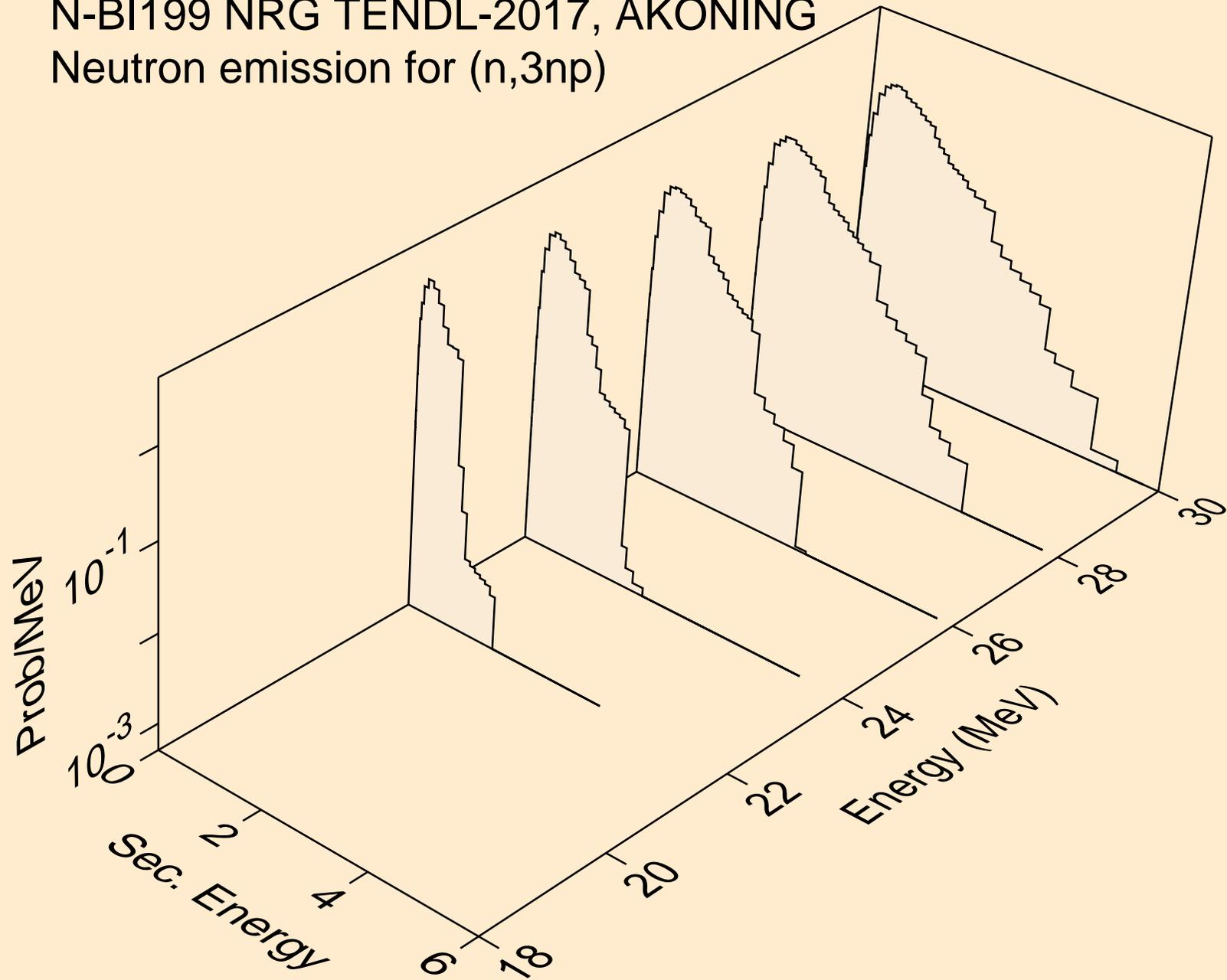
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Neutron emission for (n,4n)



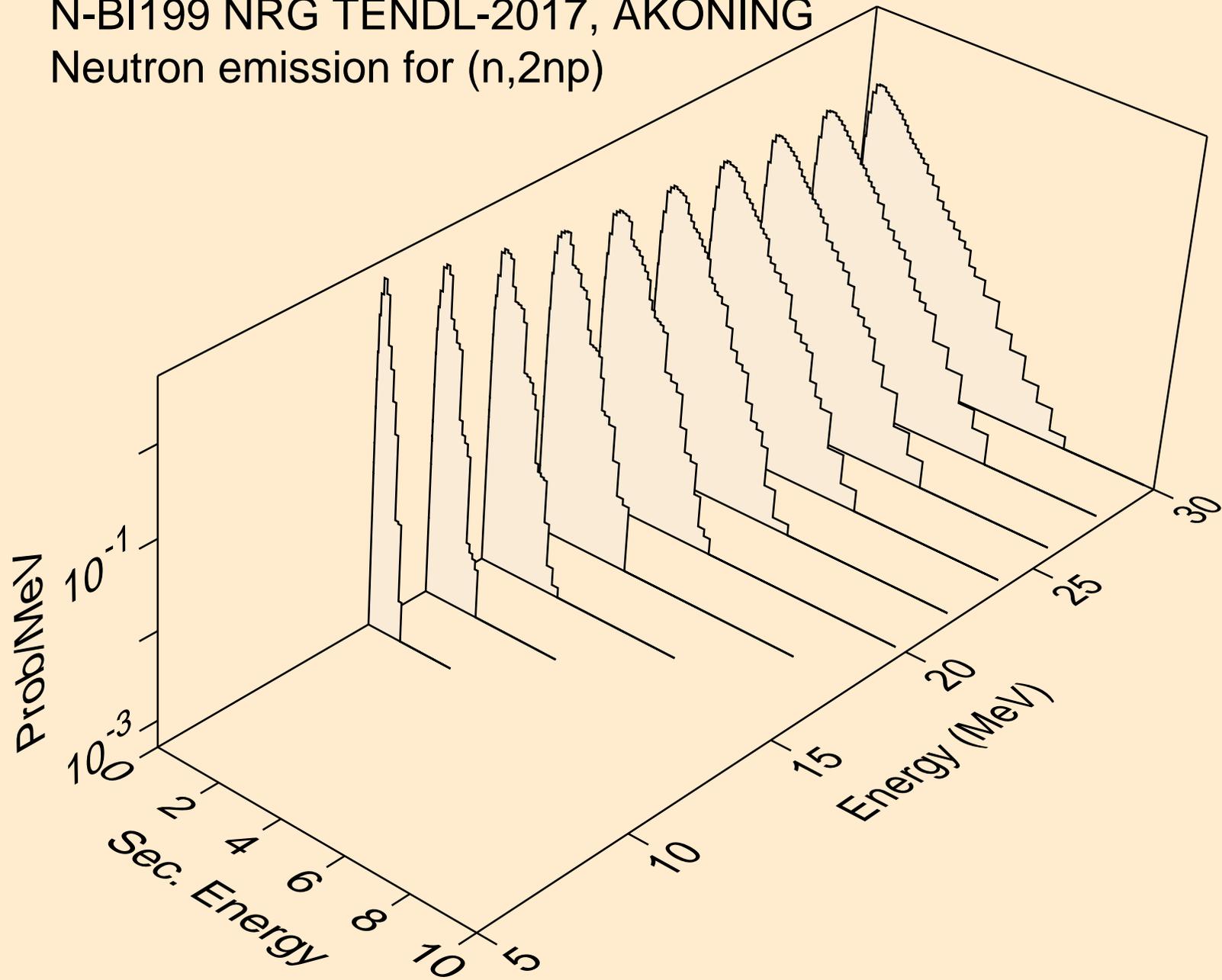
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Neutron emission for (n,2np)



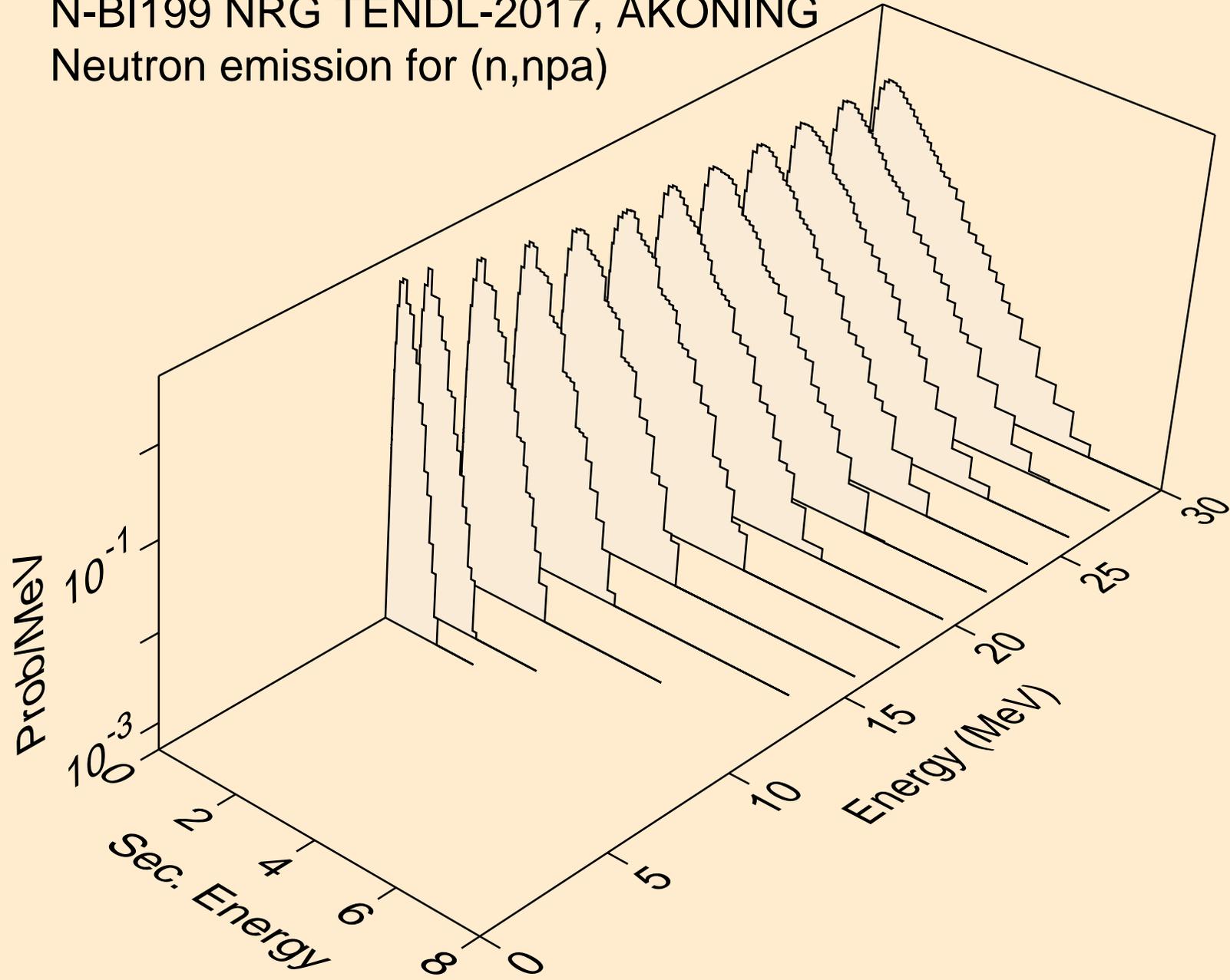
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Neutron emission for (n,3np)



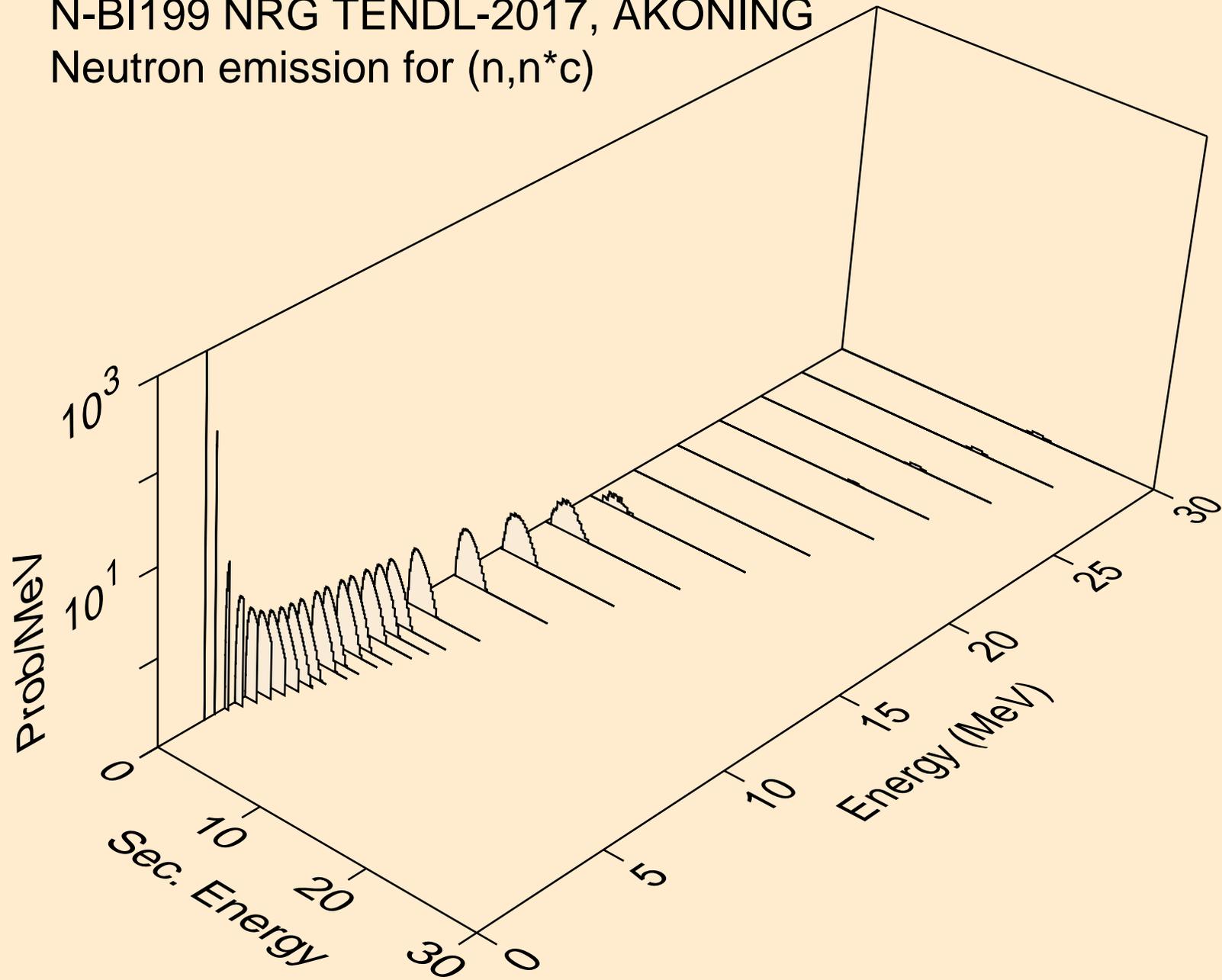
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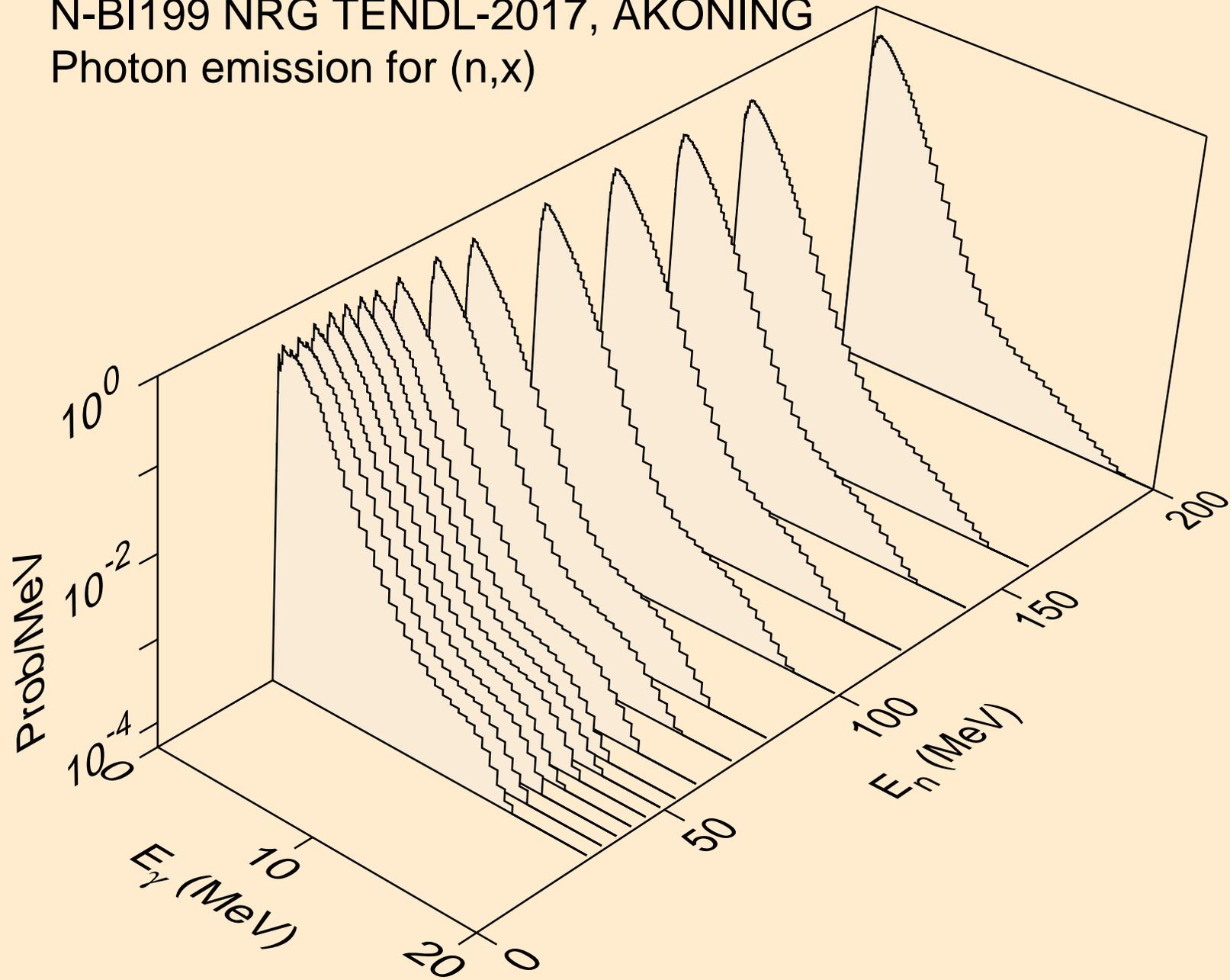
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Neutron emission for (n,npa)



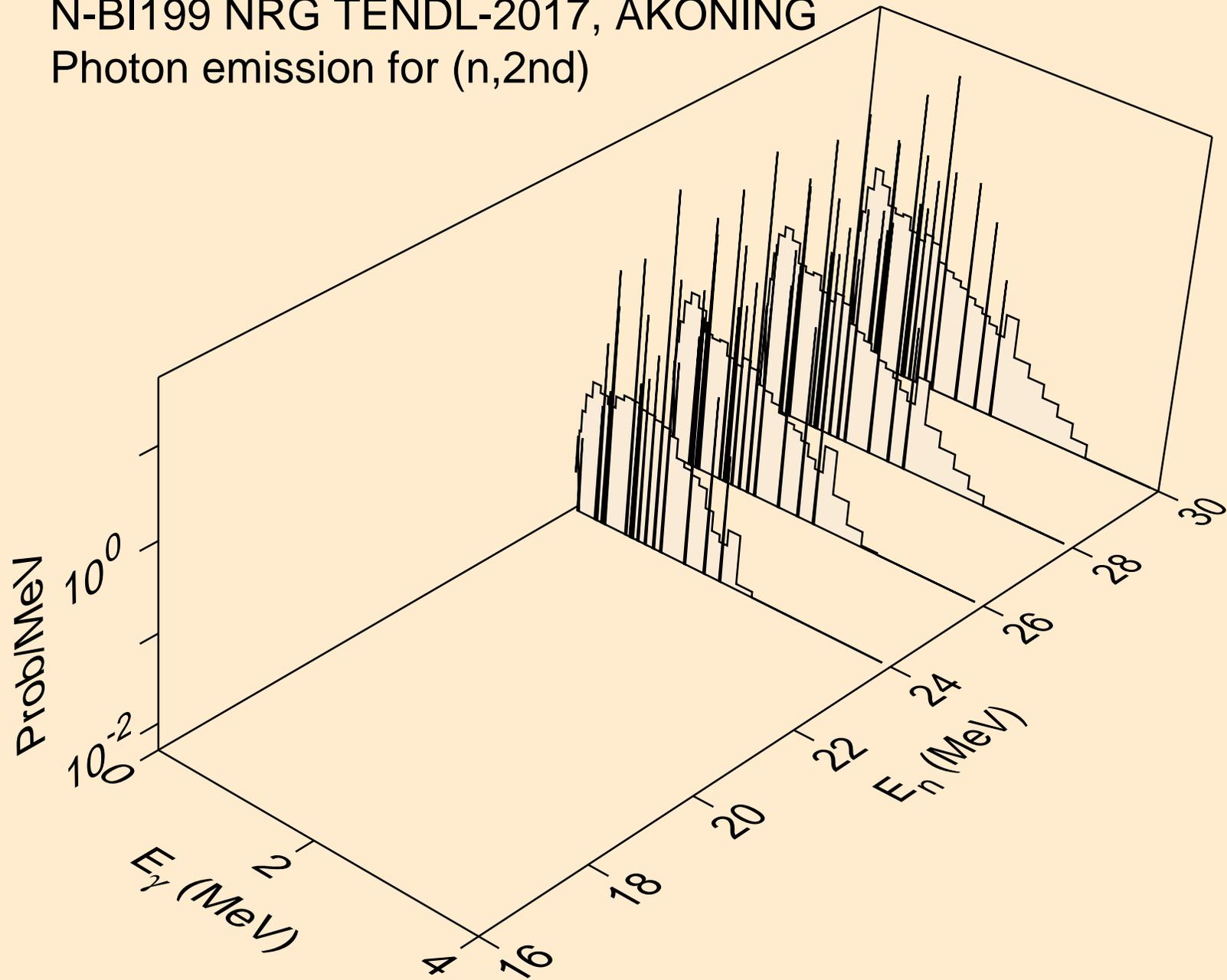
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Neutron emission for (n,n\*c)



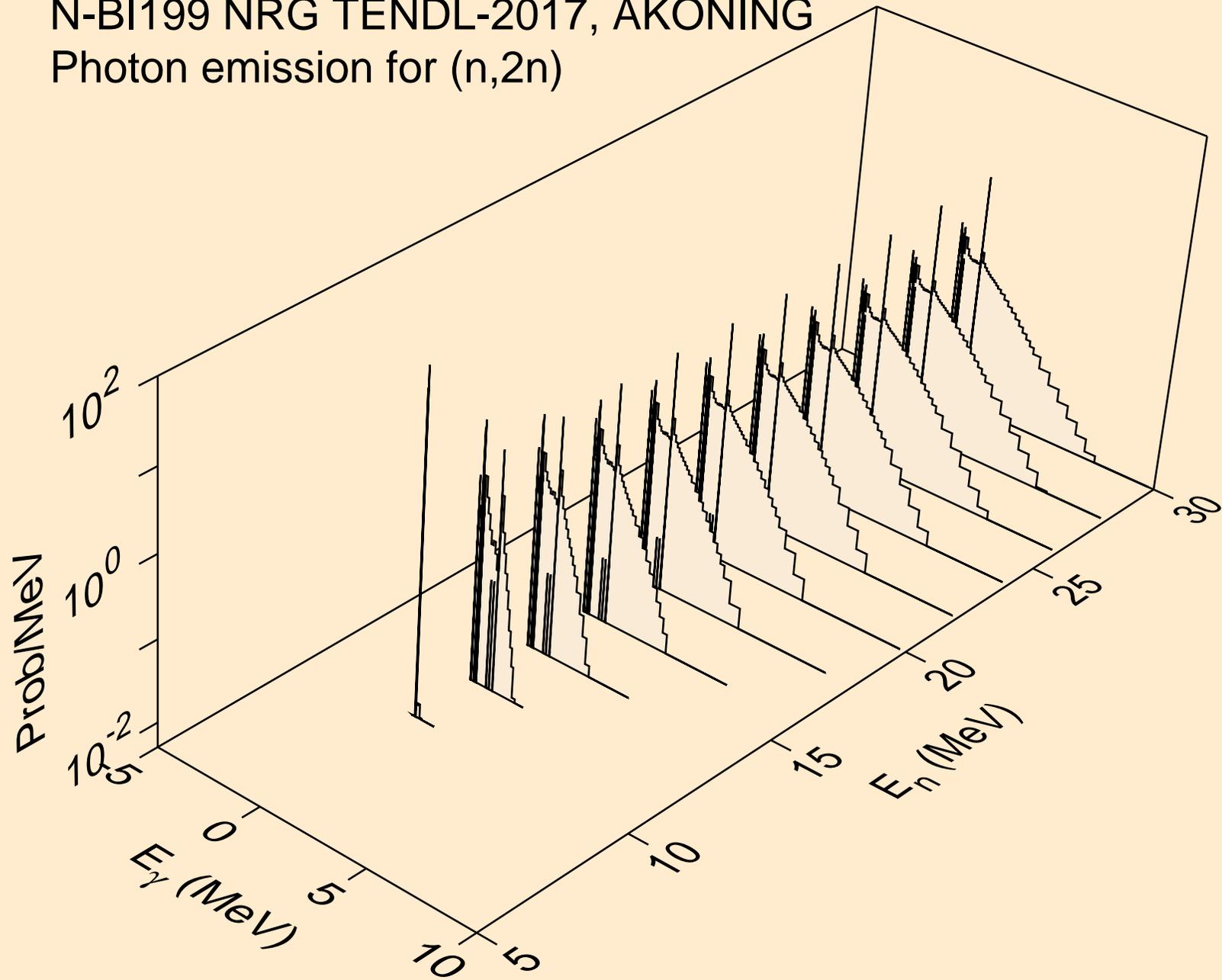
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Photon emission for (n,x)



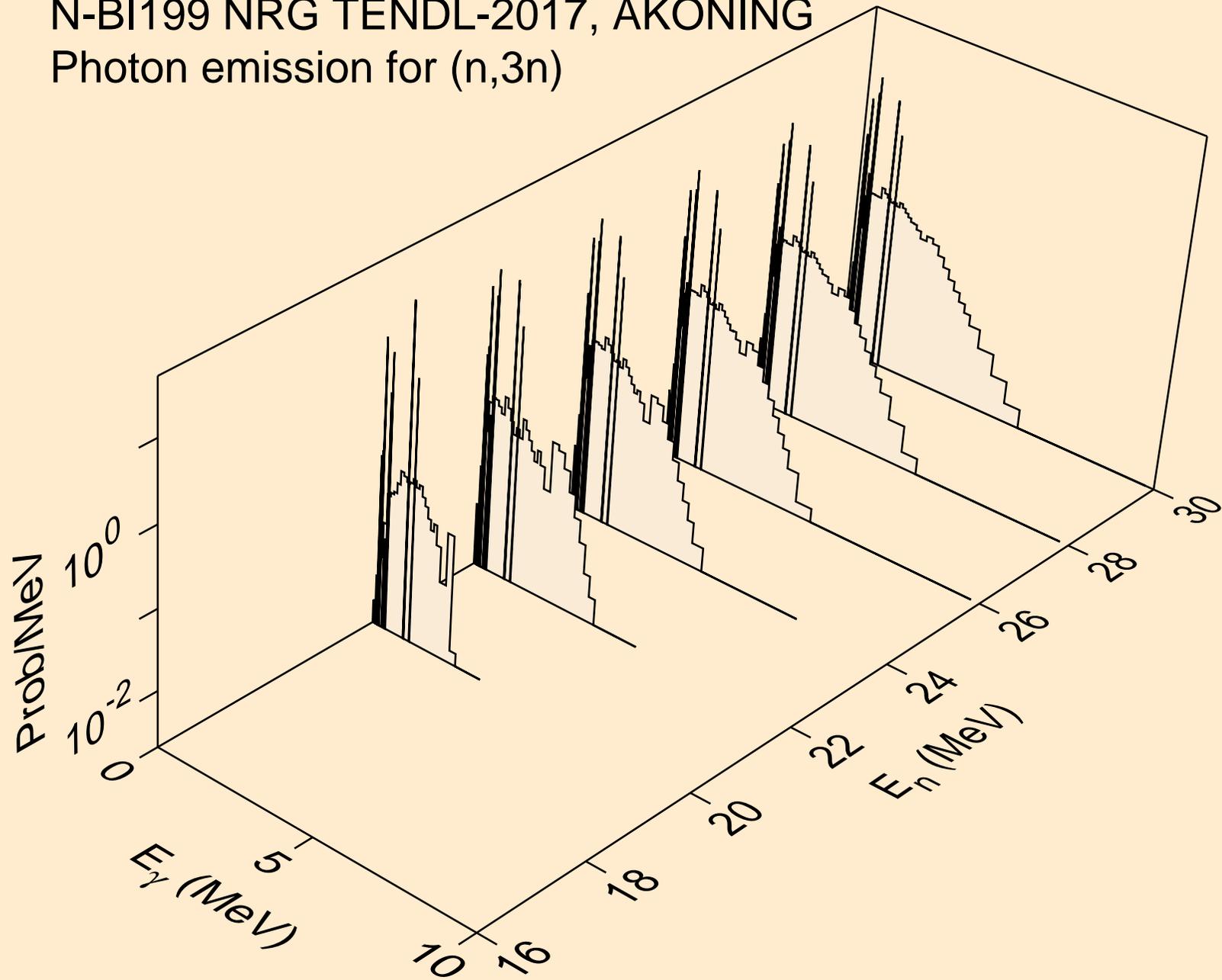
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Photon emission for (n,2nd)



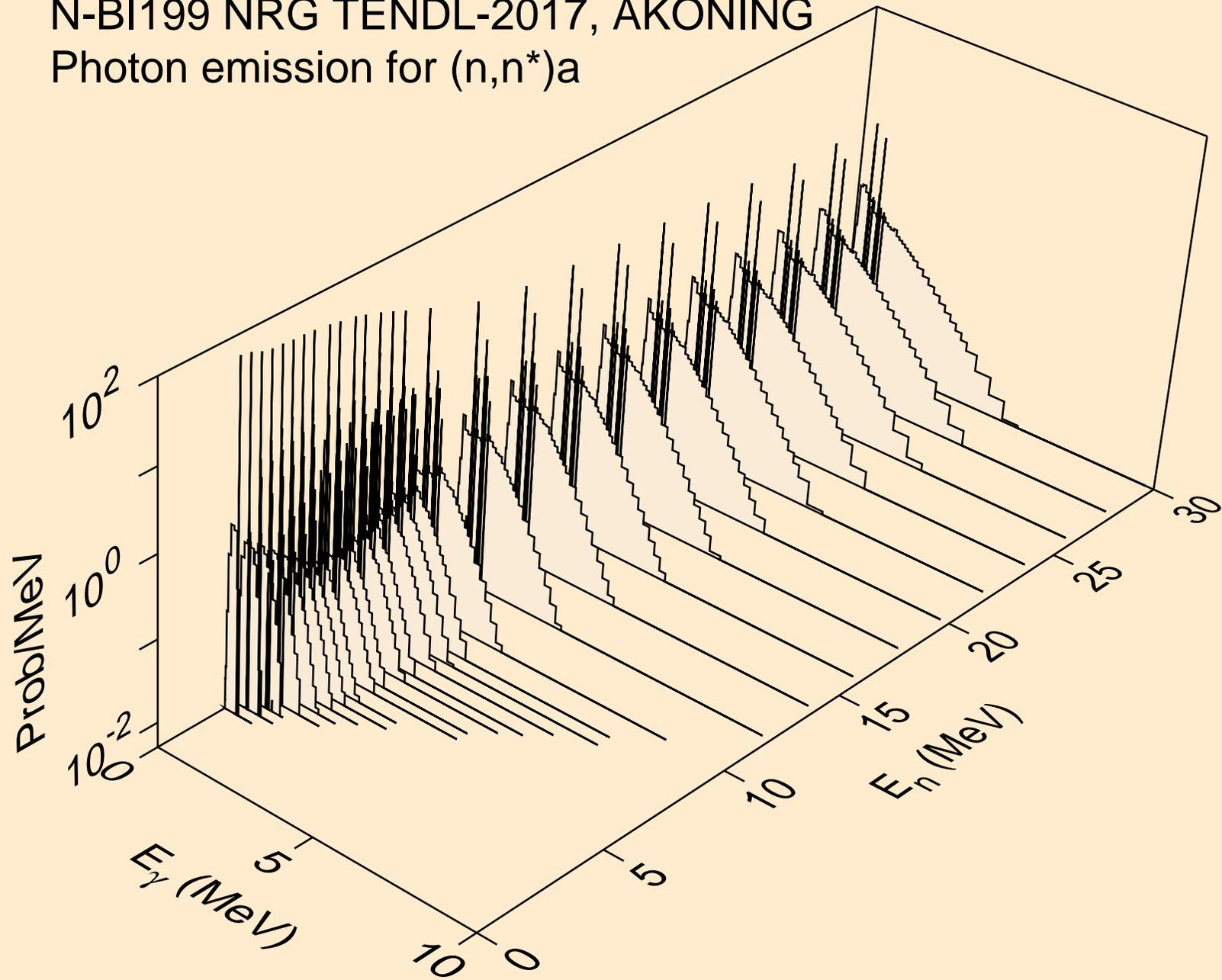
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Photon emission for (n,2n)



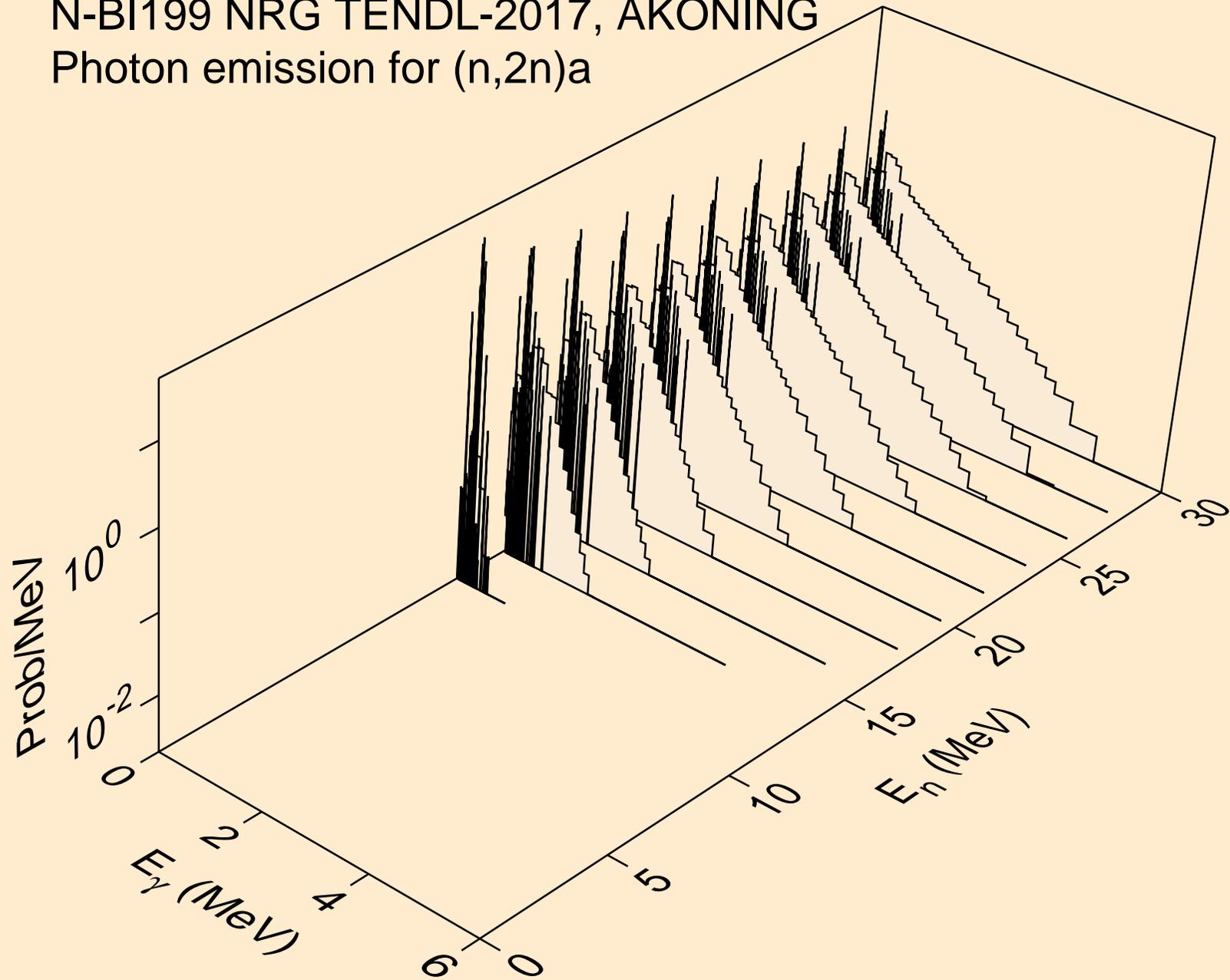
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Photon emission for (n,3n)



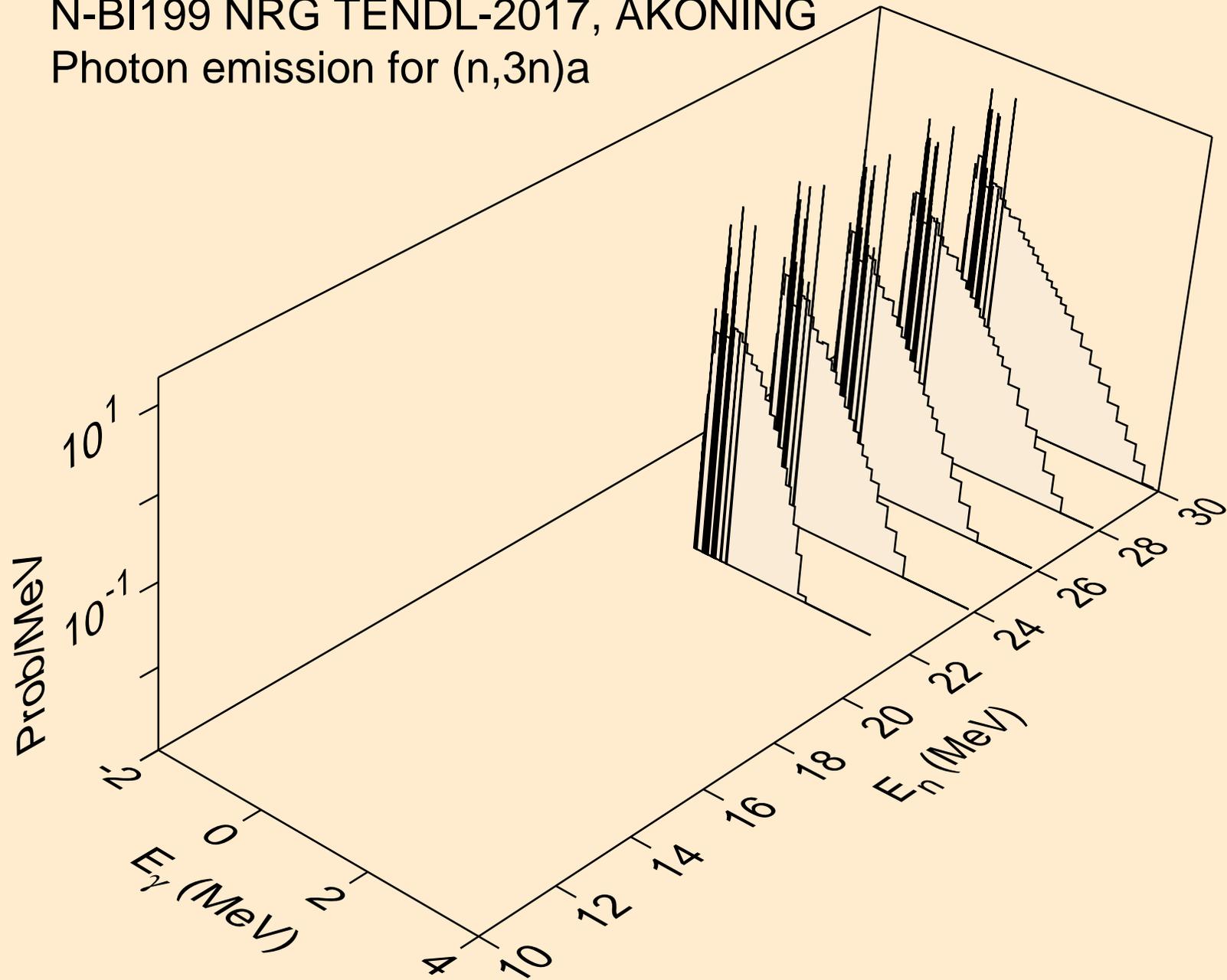
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Photon emission for (n,n\*)a



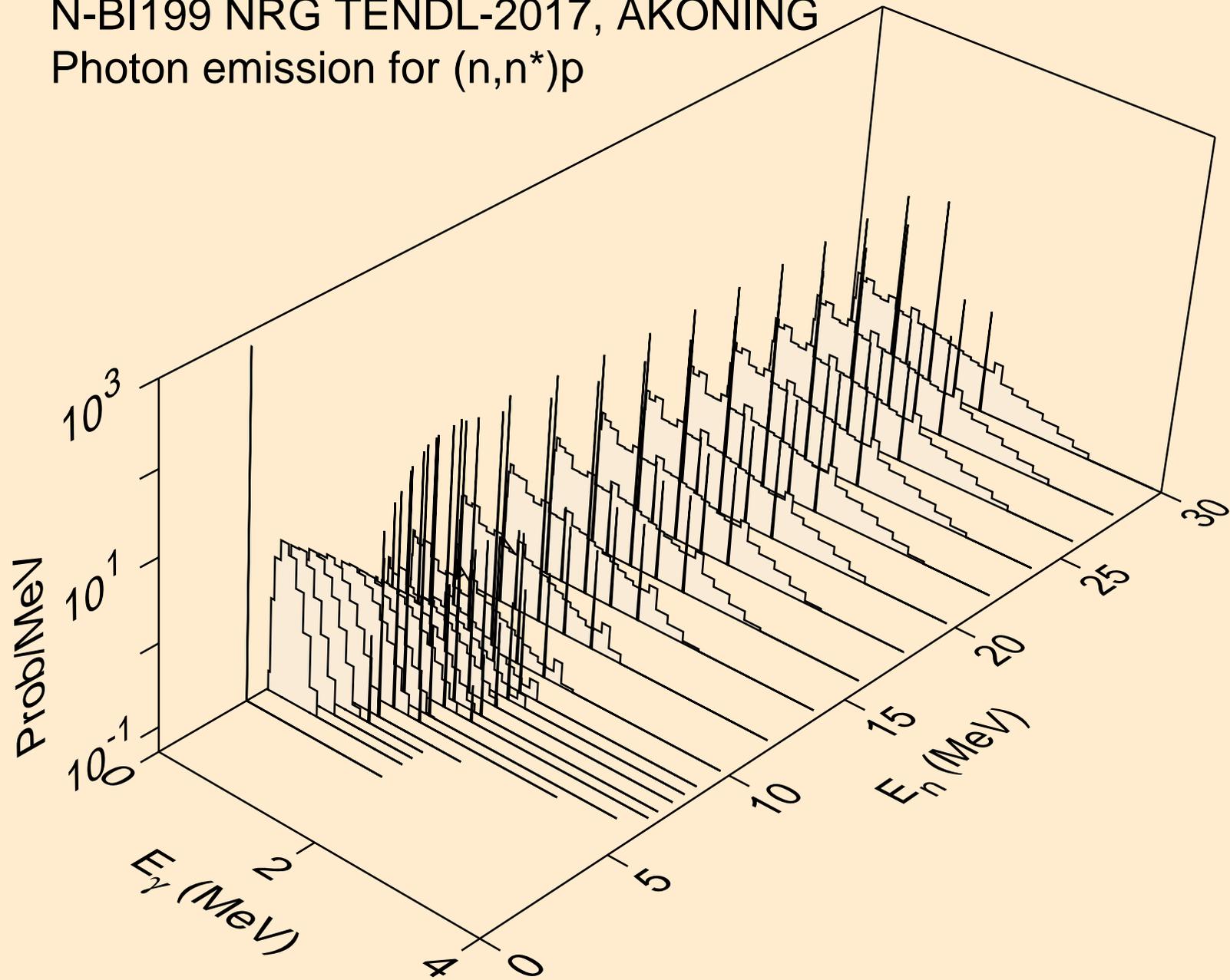
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Photon emission for (n,2n)a



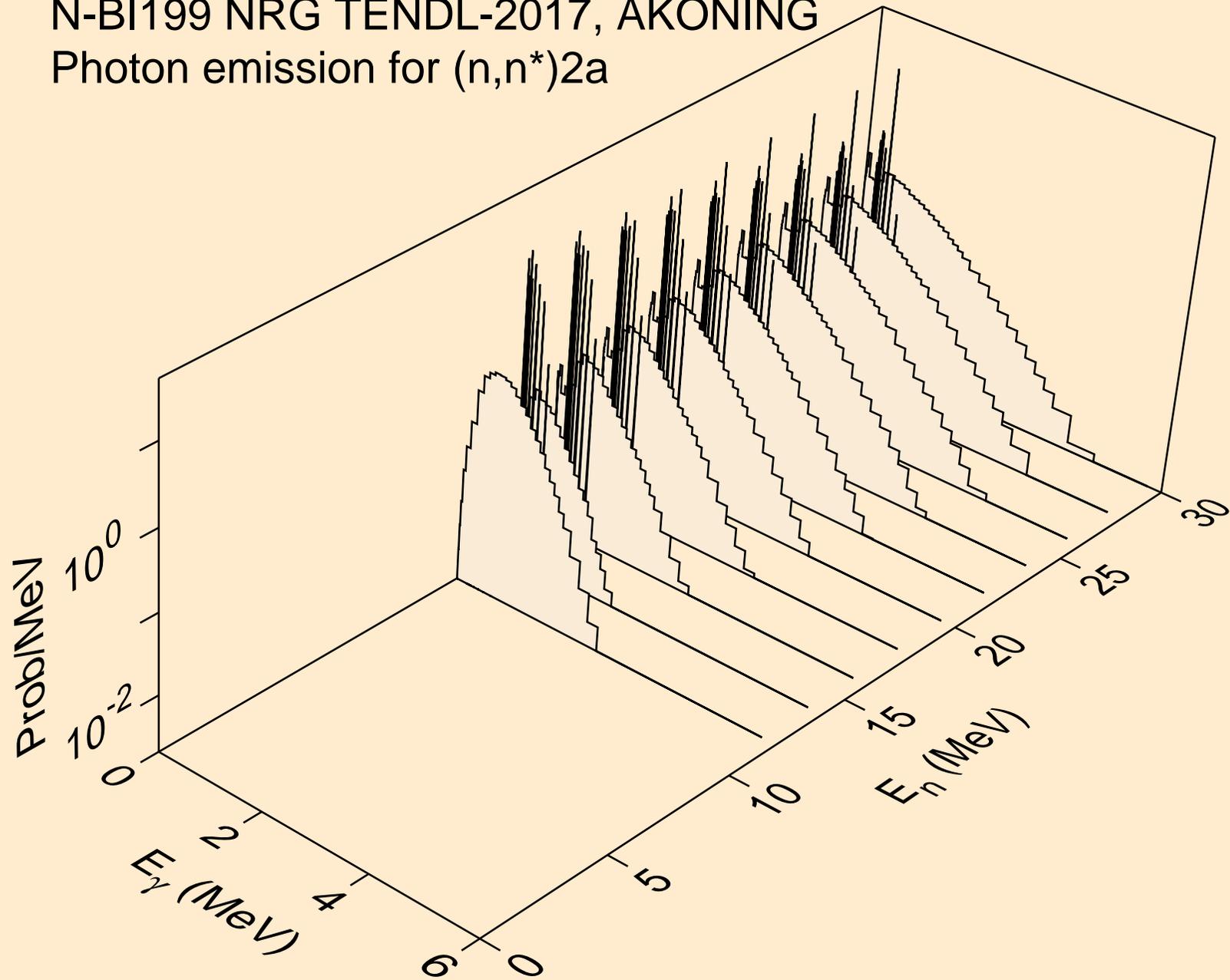
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Photon emission for (n,3n)a



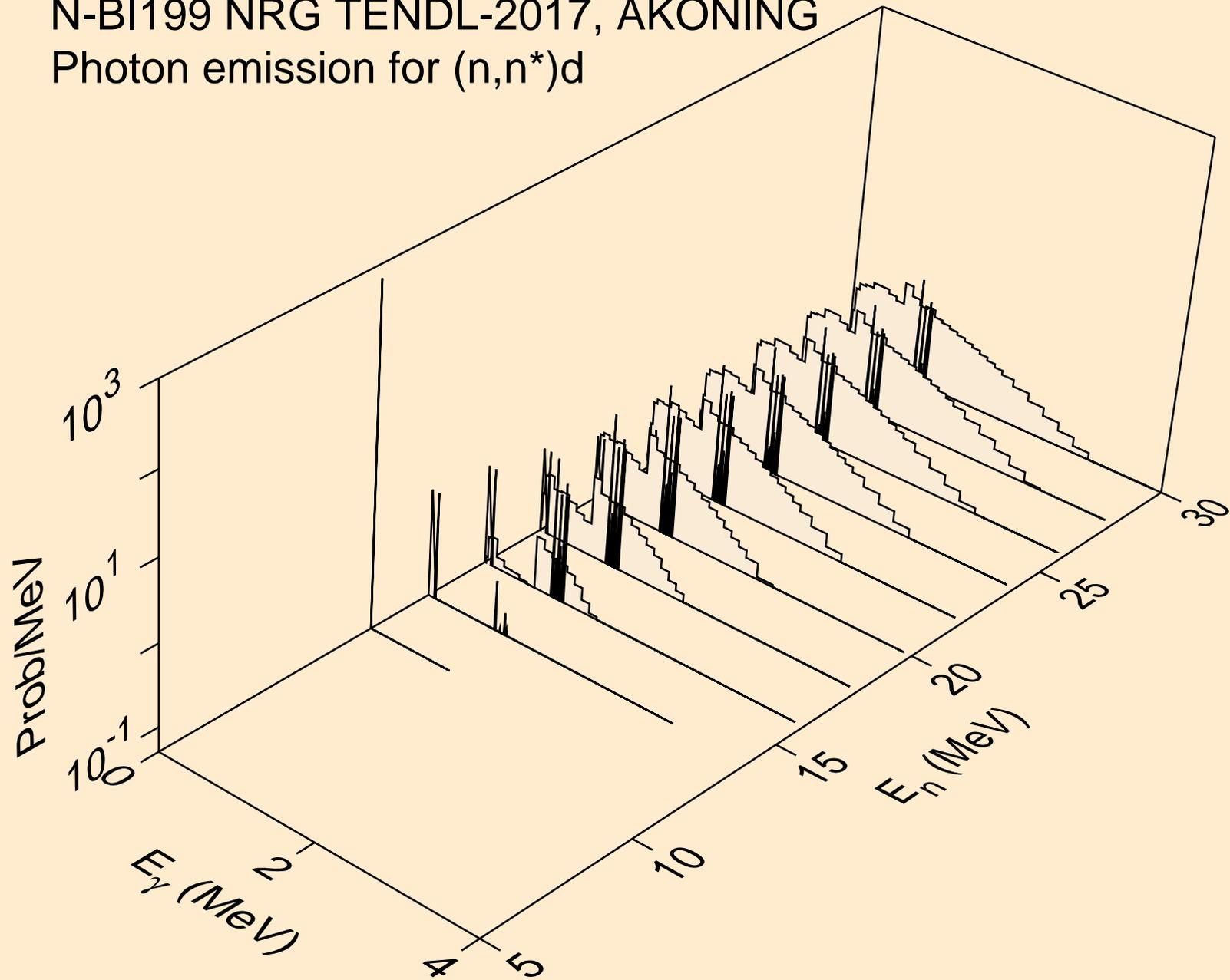
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Photon emission for (n,n\*)p



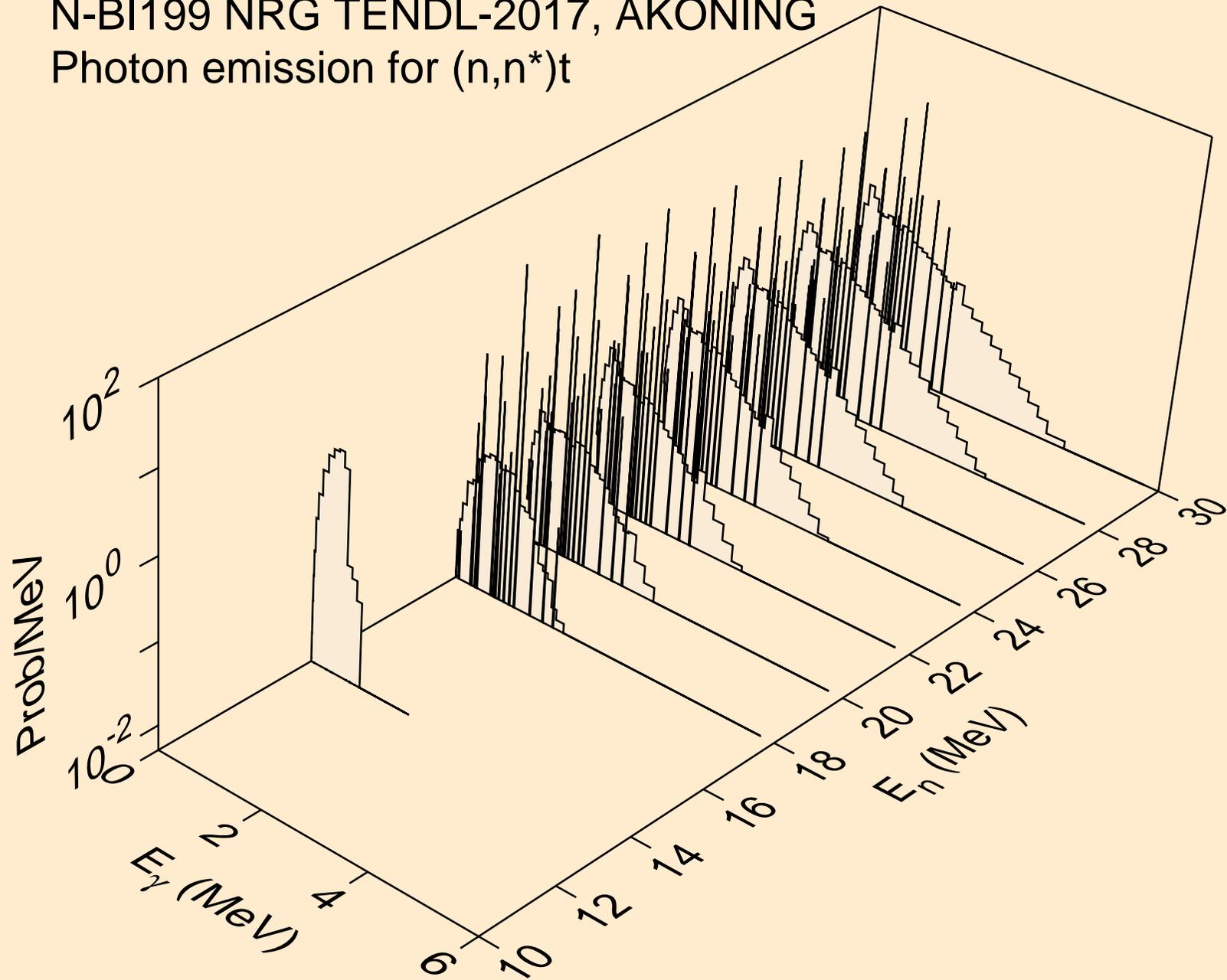
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Photon emission for (n,n\*)2a



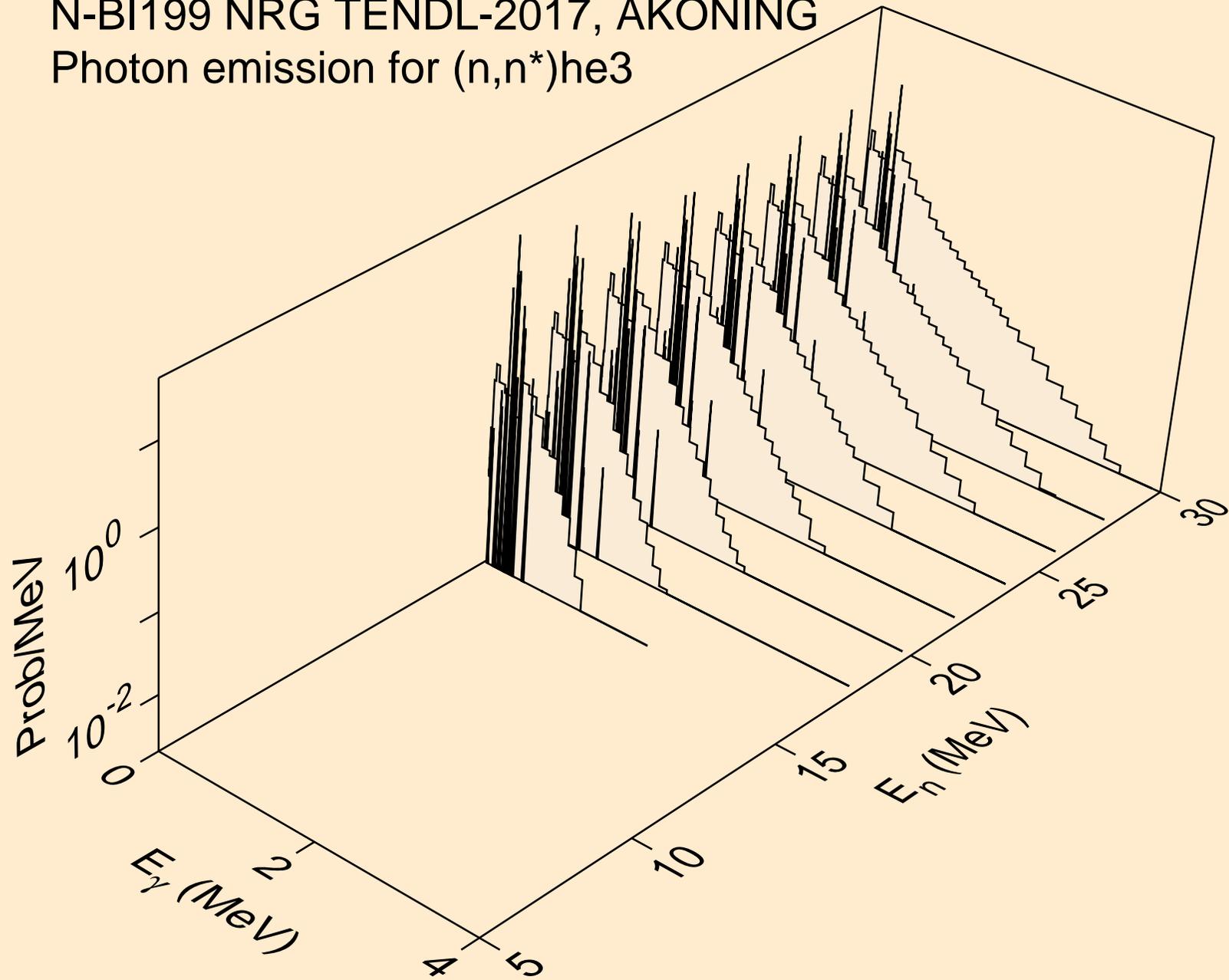
N-BI199 NRG TENDL-2017, AKONING  
Photon emission for (n,n\*)d



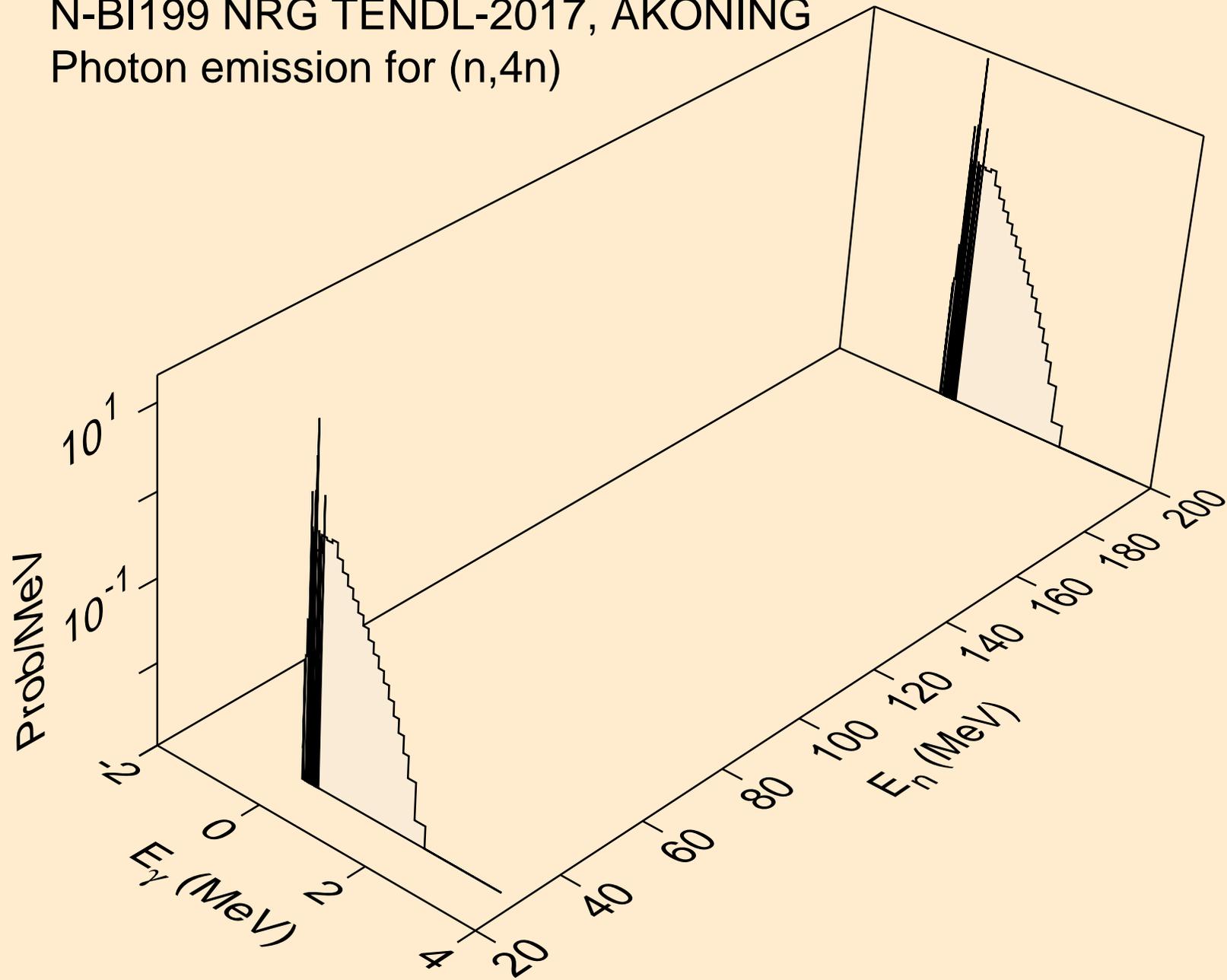
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Photon emission for (n,n\*)t



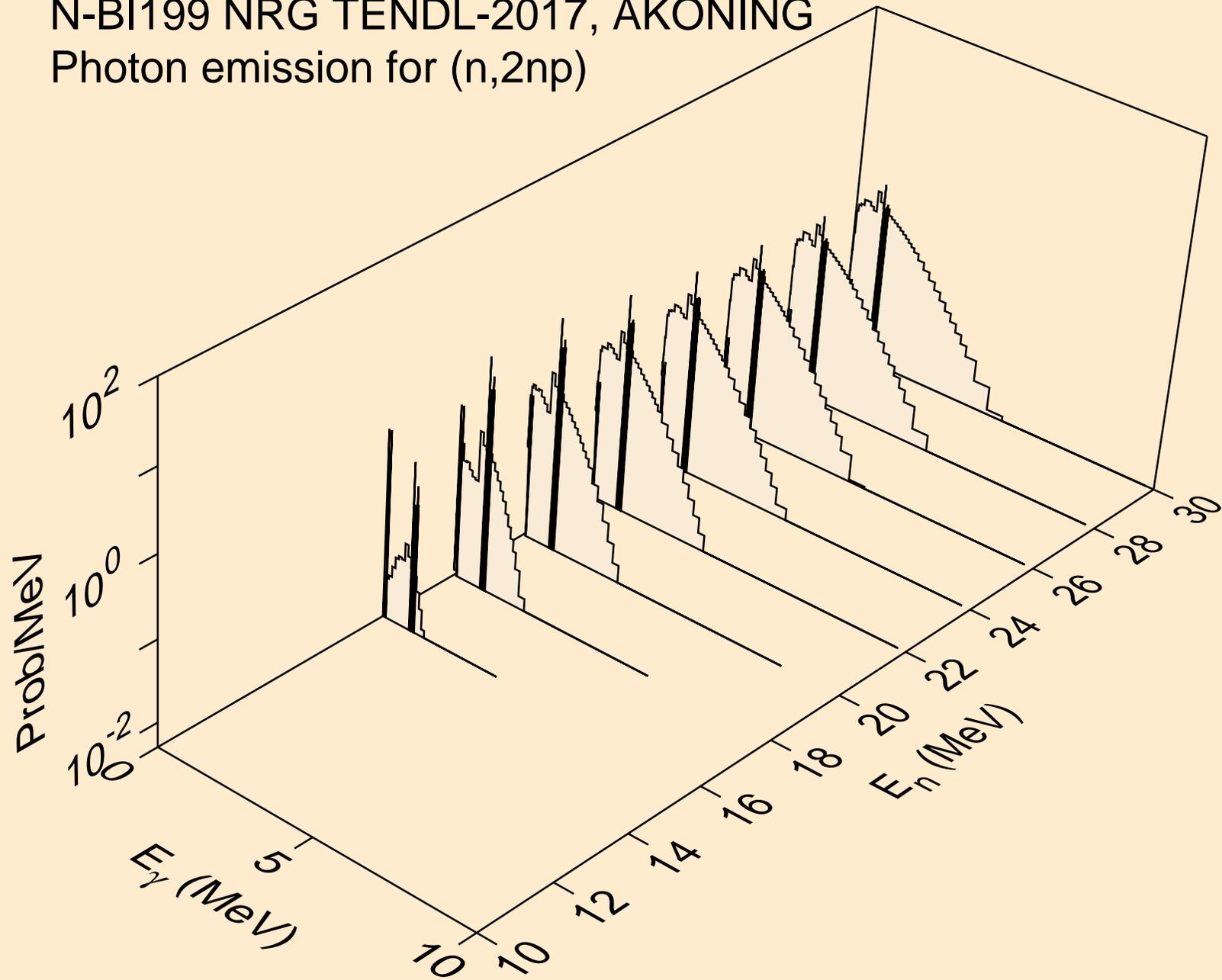
N-BI199 NRG TENDL-2017, AKONING  
Photon emission for (n,n\*)he3



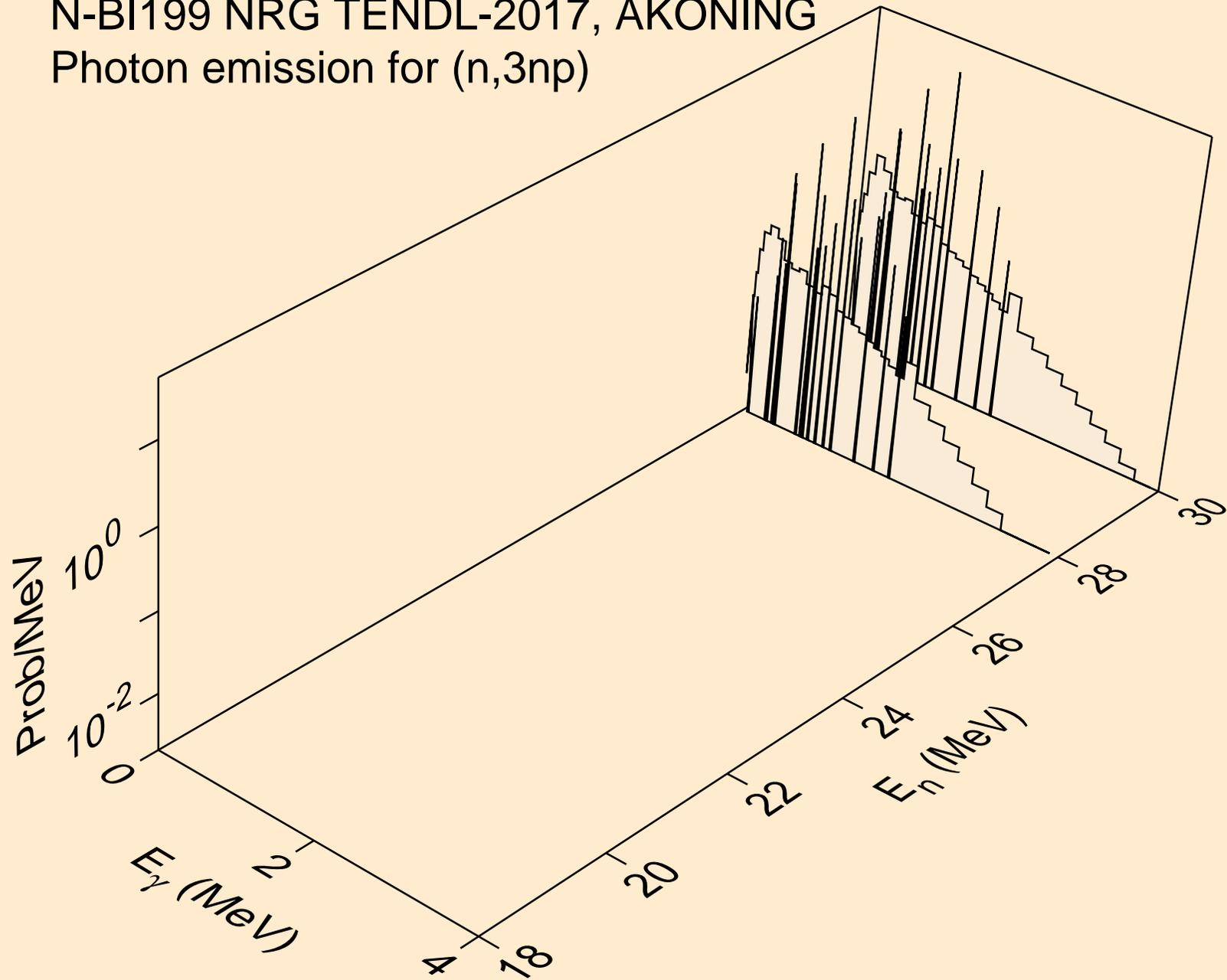
N-BI199 NRG TENDL-2017, AKONING  
Photon emission for (n,4n)



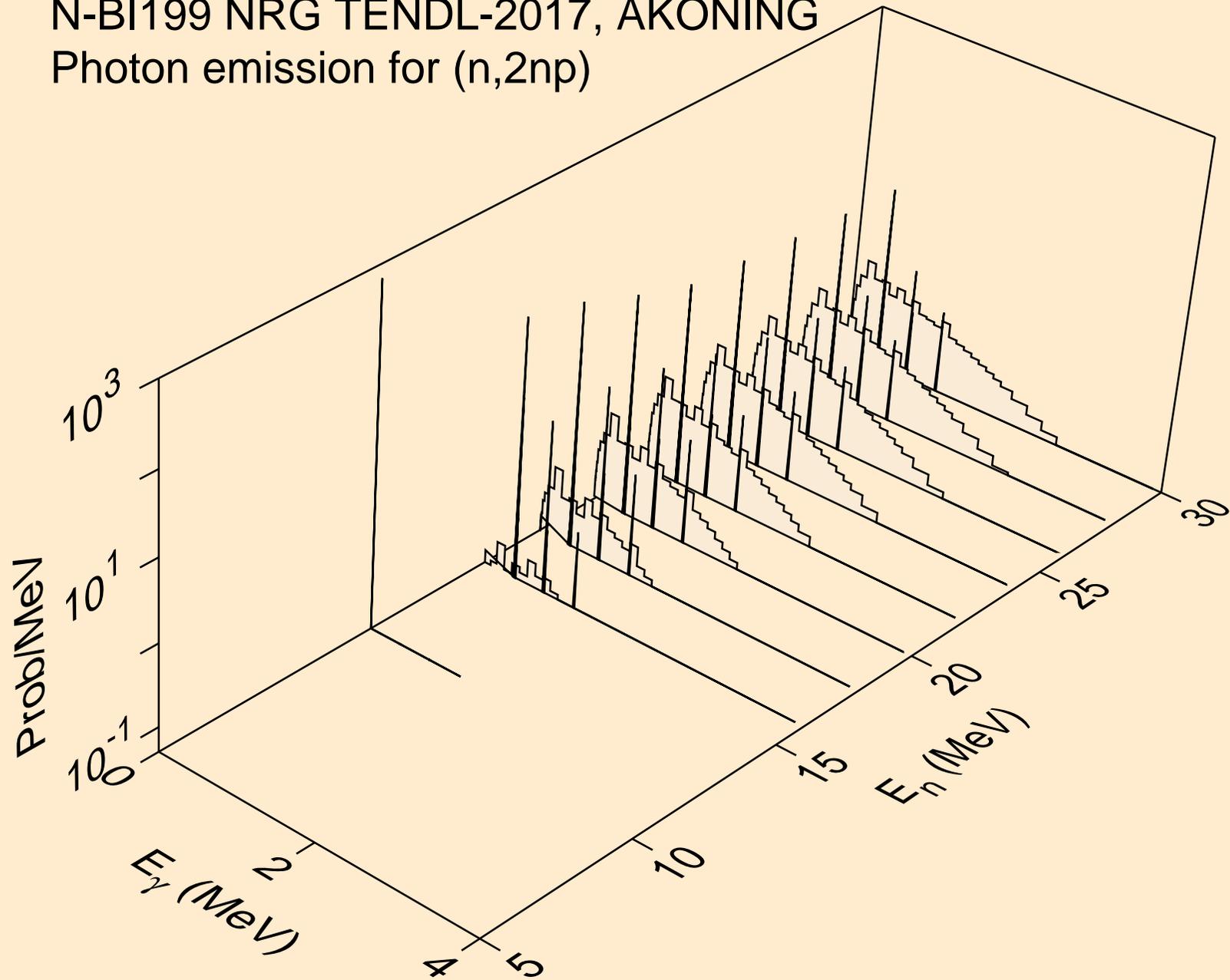
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Photon emission for (n,2np)



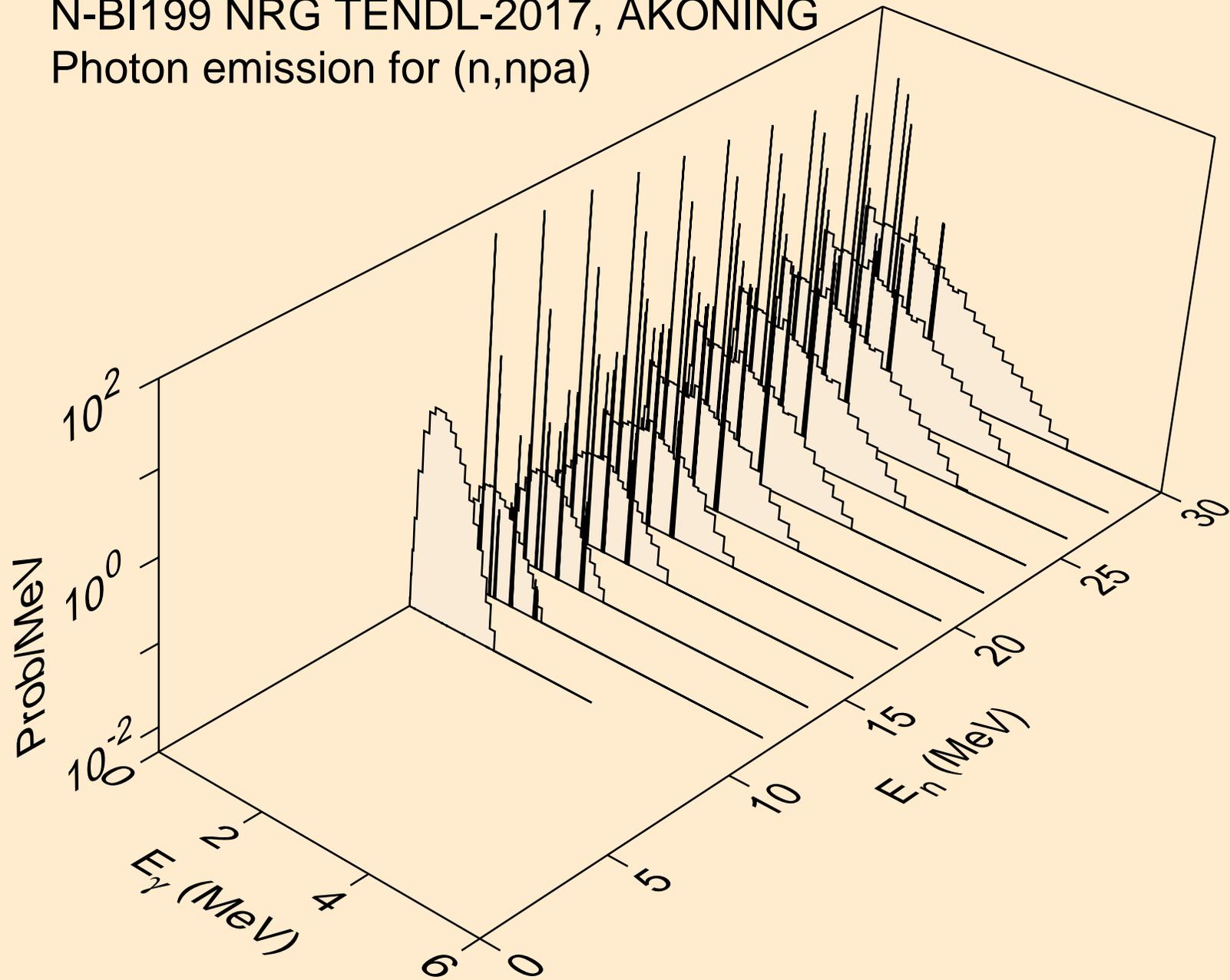
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Photon emission for (n,3np)



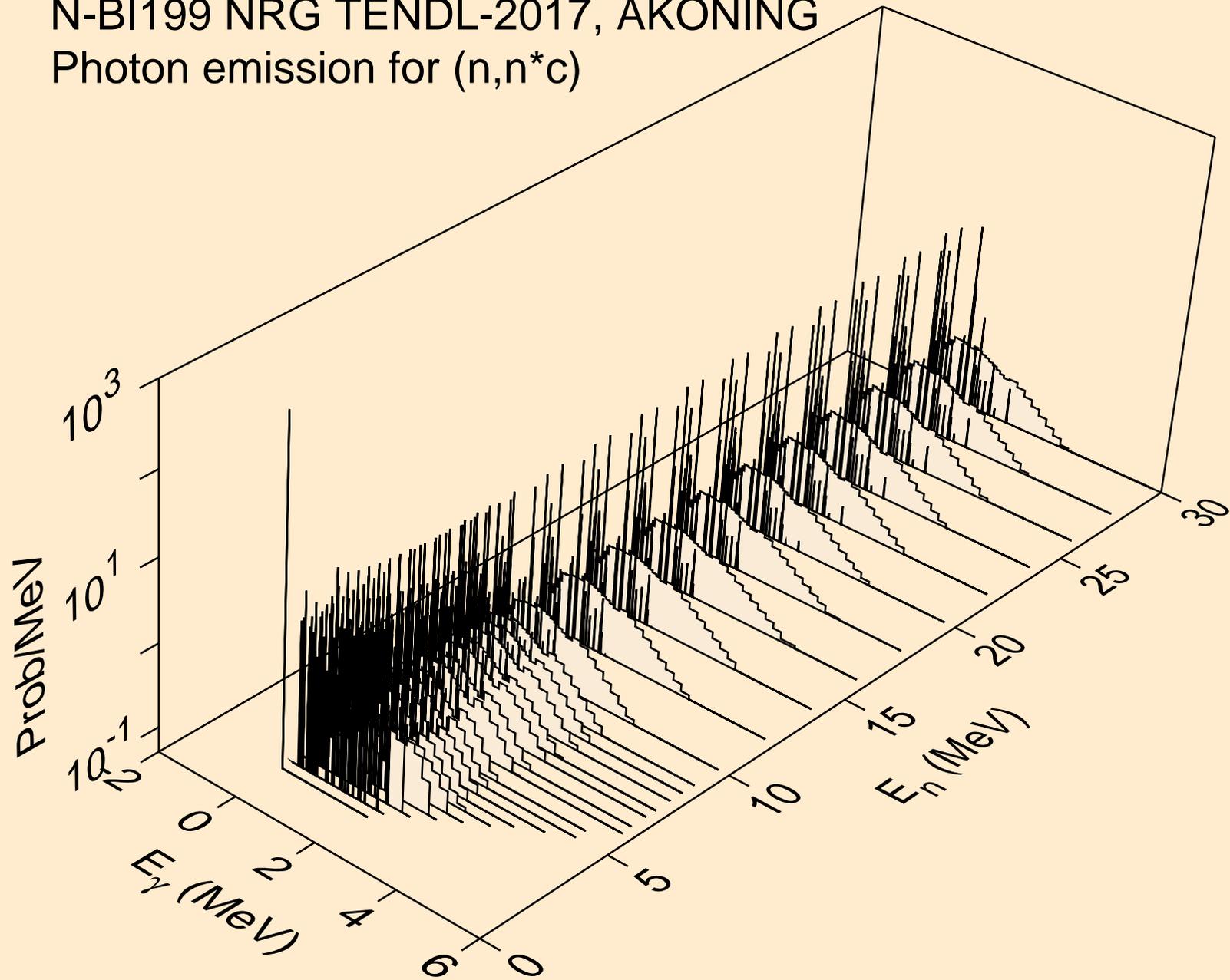
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Photon emission for (n,2np)



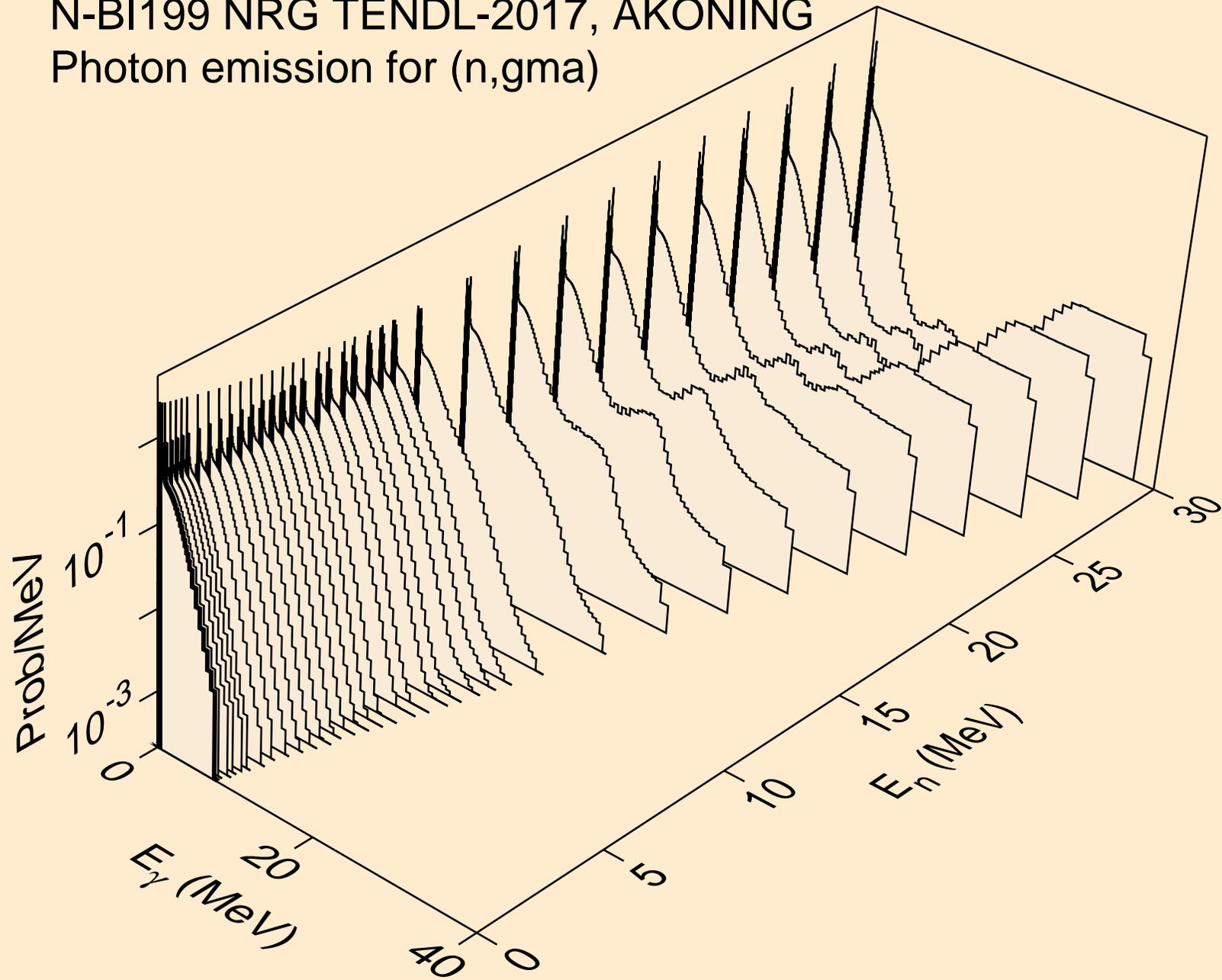
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Photon emission for (n,npa)



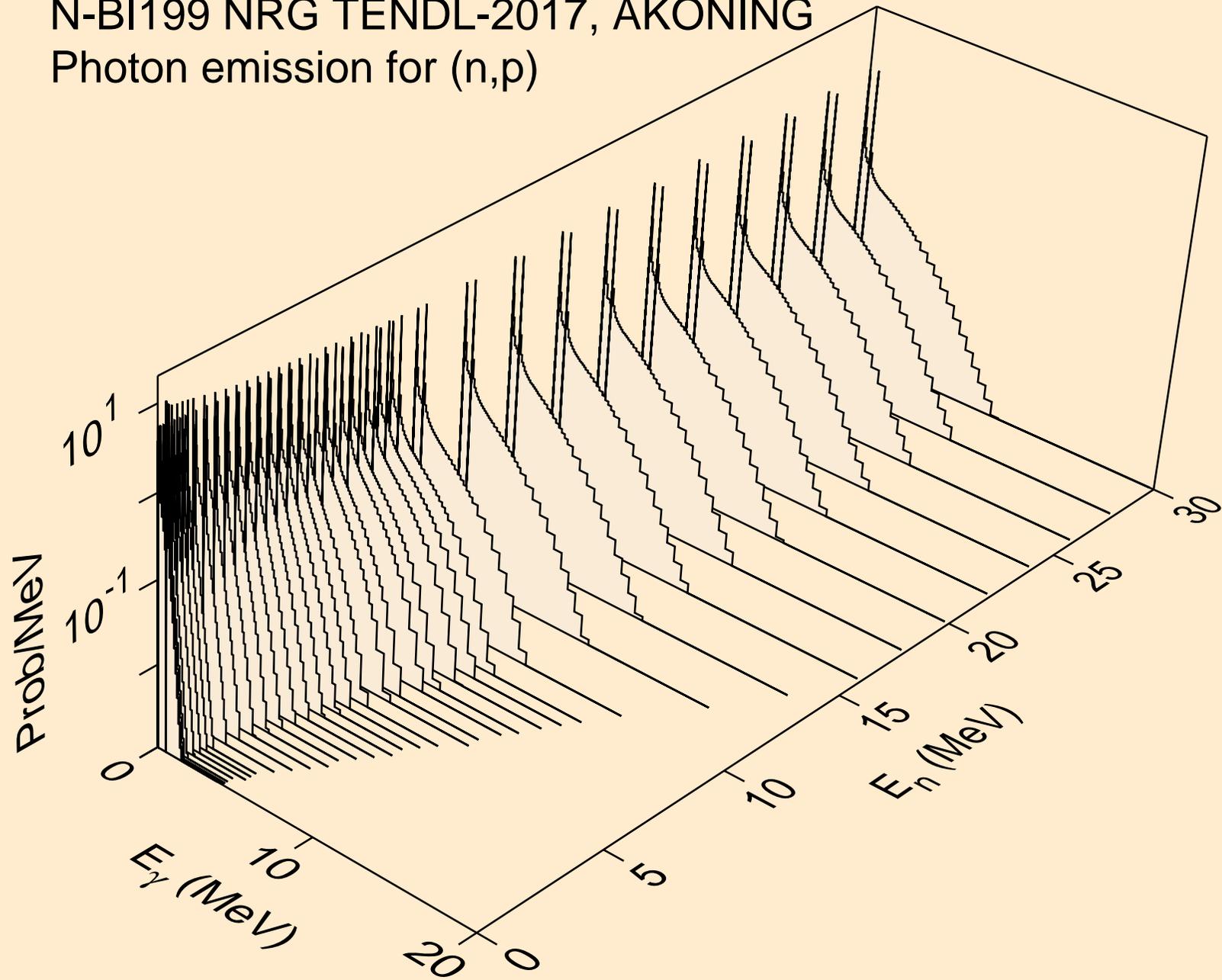
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Photon emission for (n,n\*c)



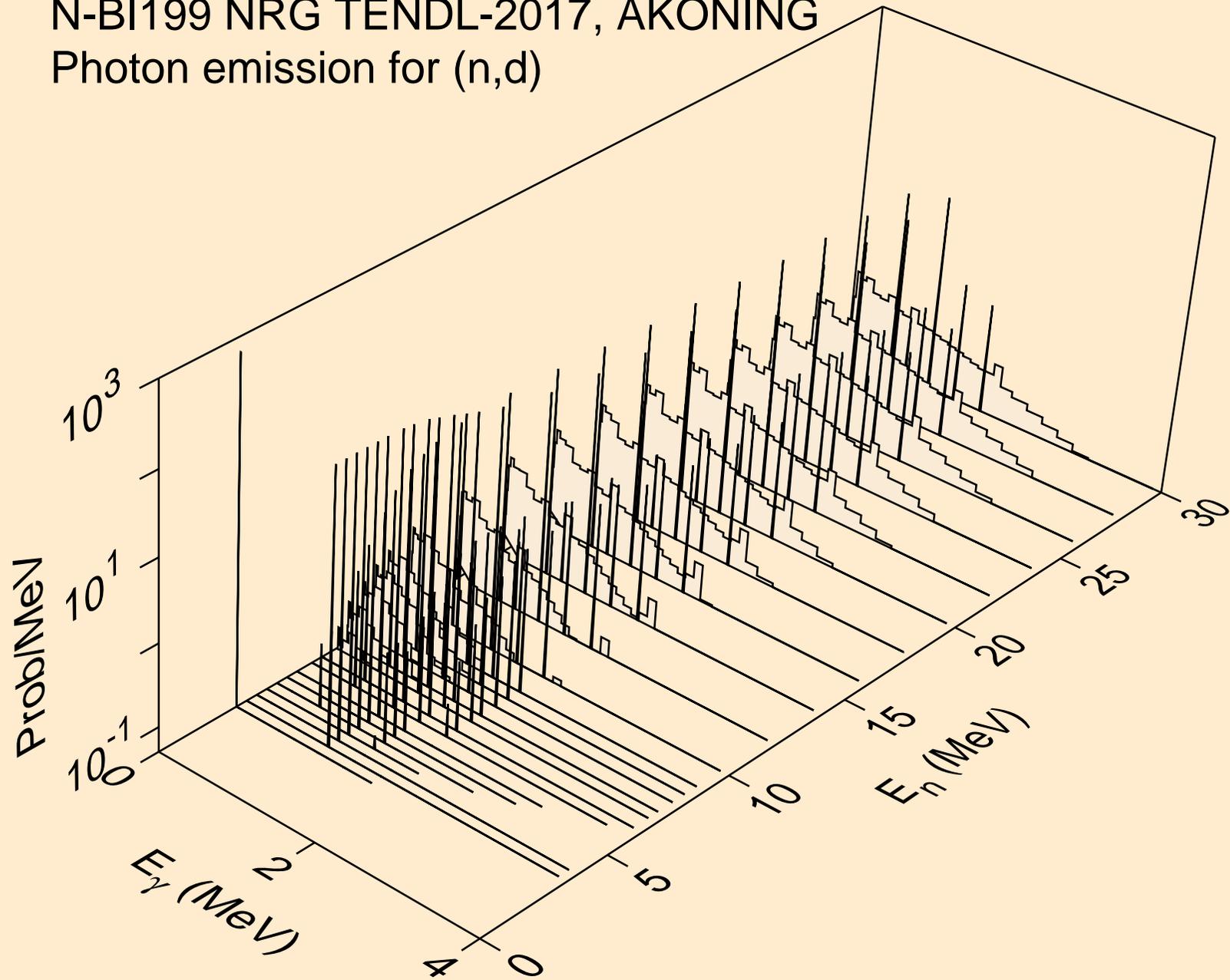
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Photon emission for (n,gma)



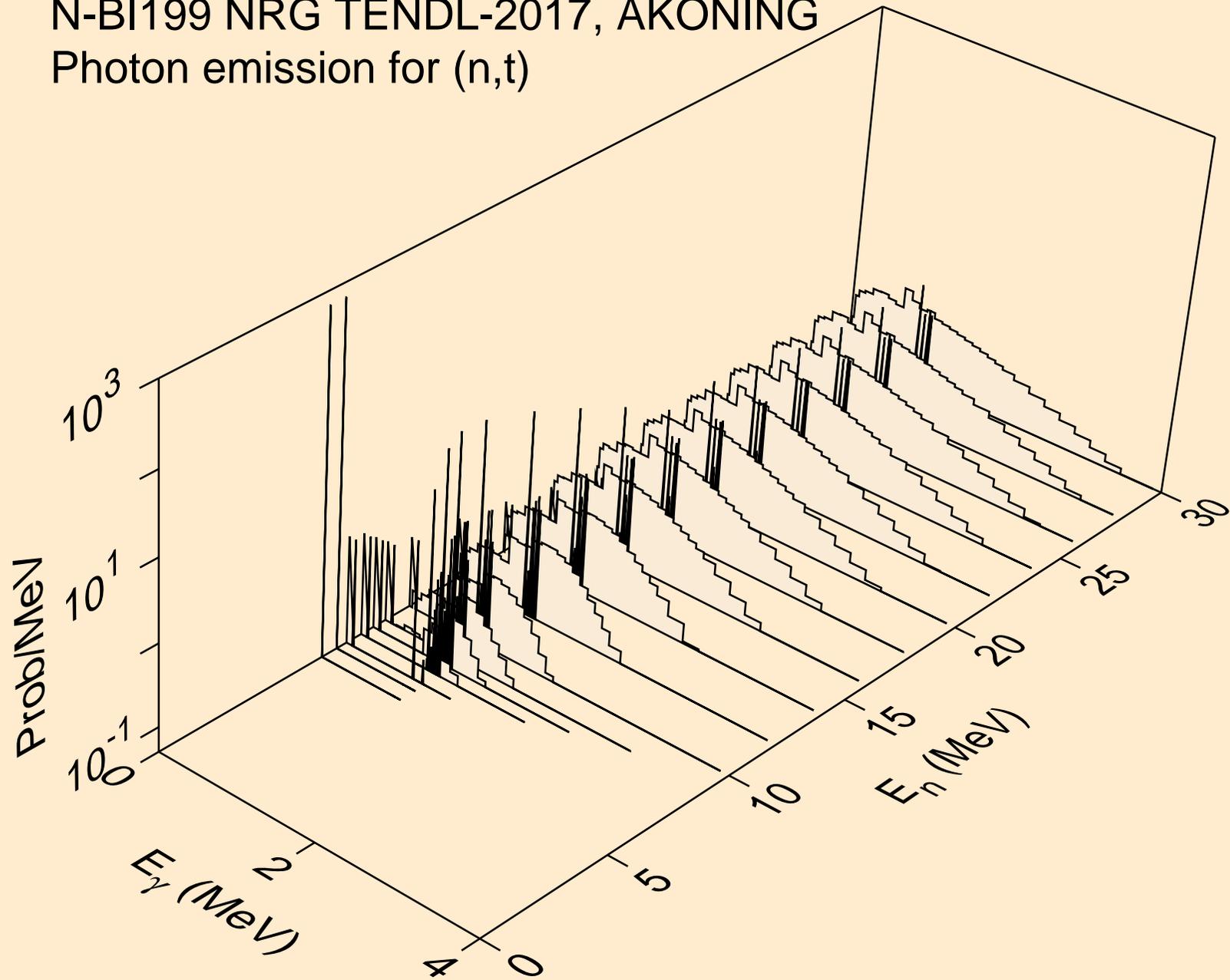
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Photon emission for (n,p)



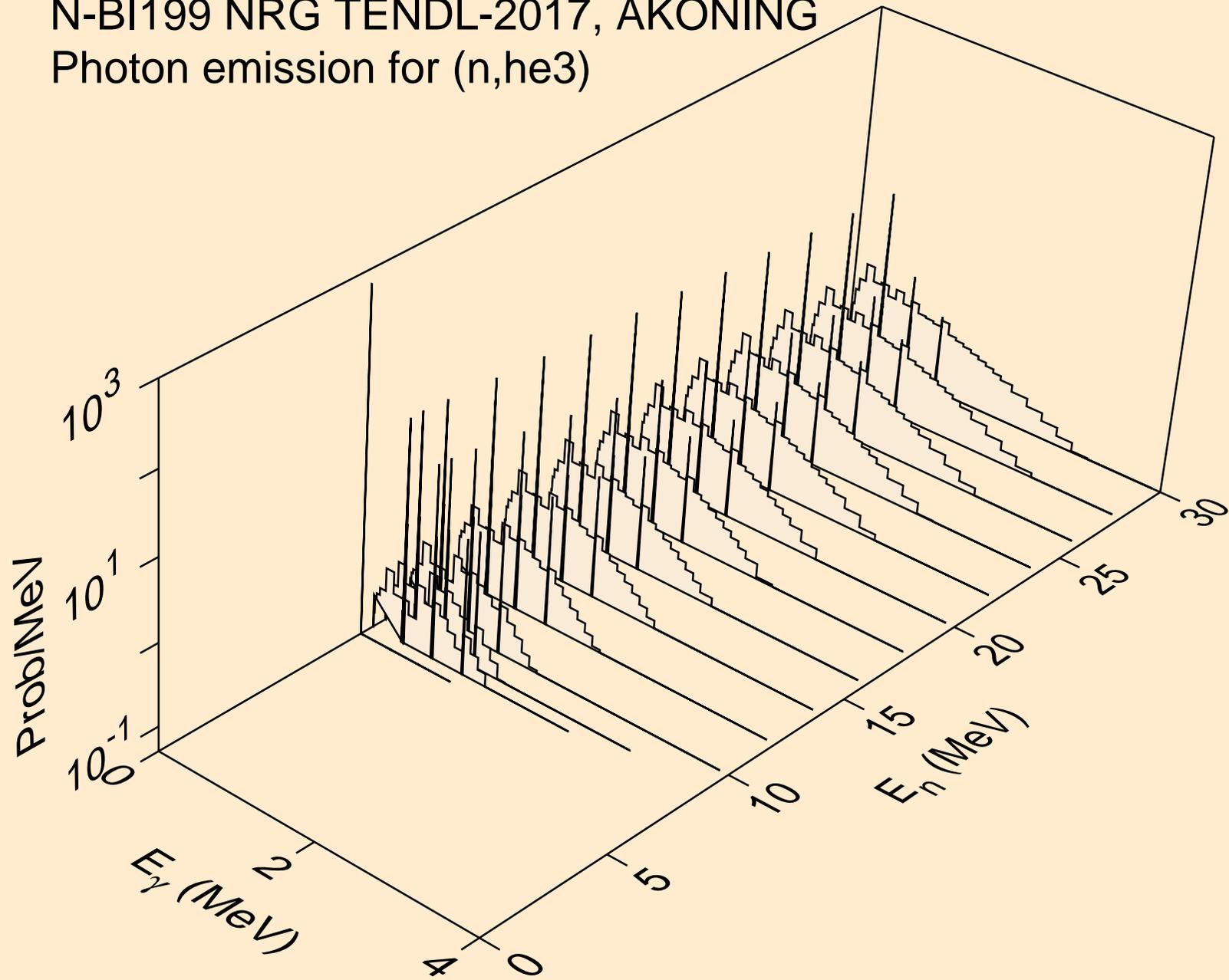
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Photon emission for (n,d)



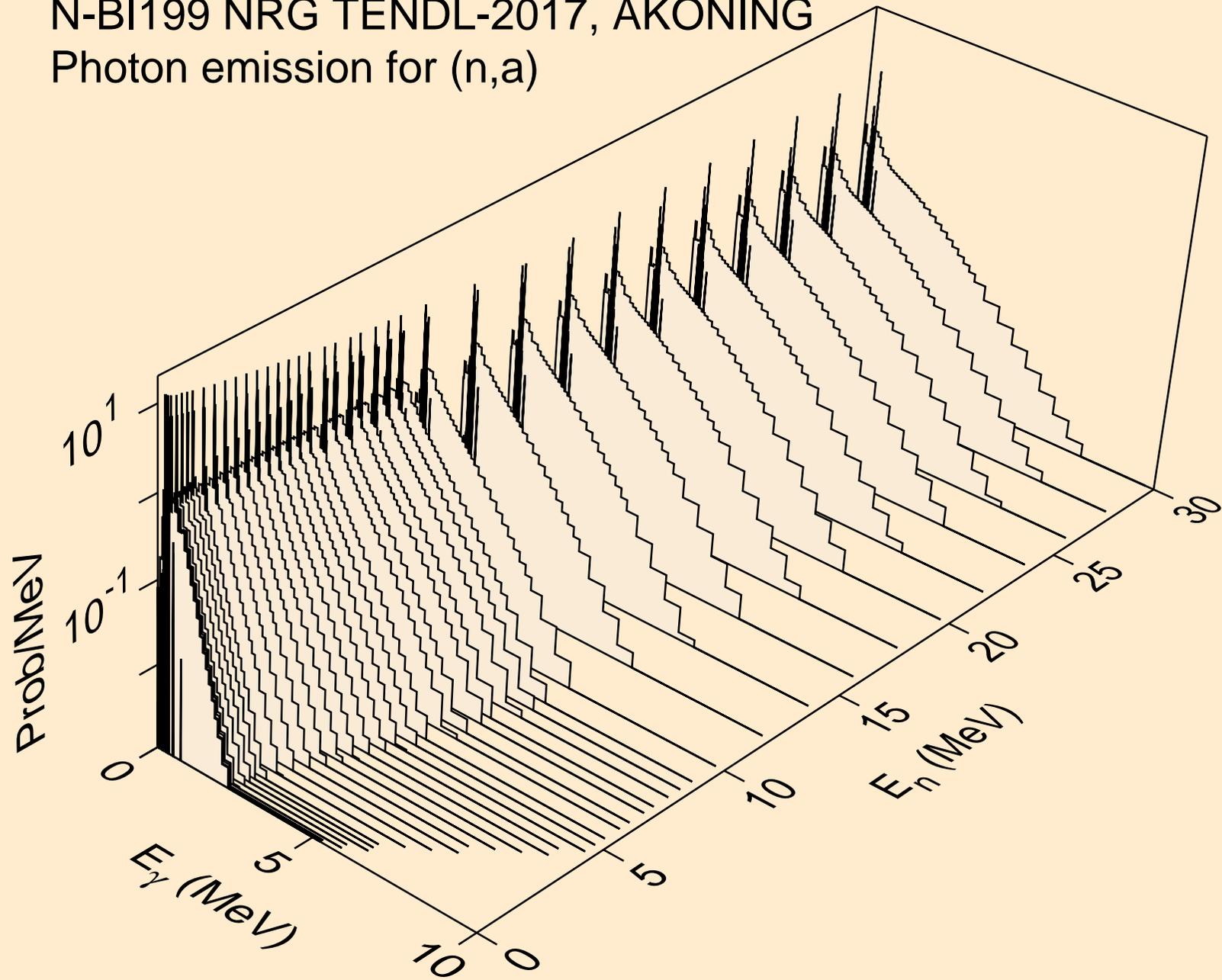
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Photon emission for (n,t)



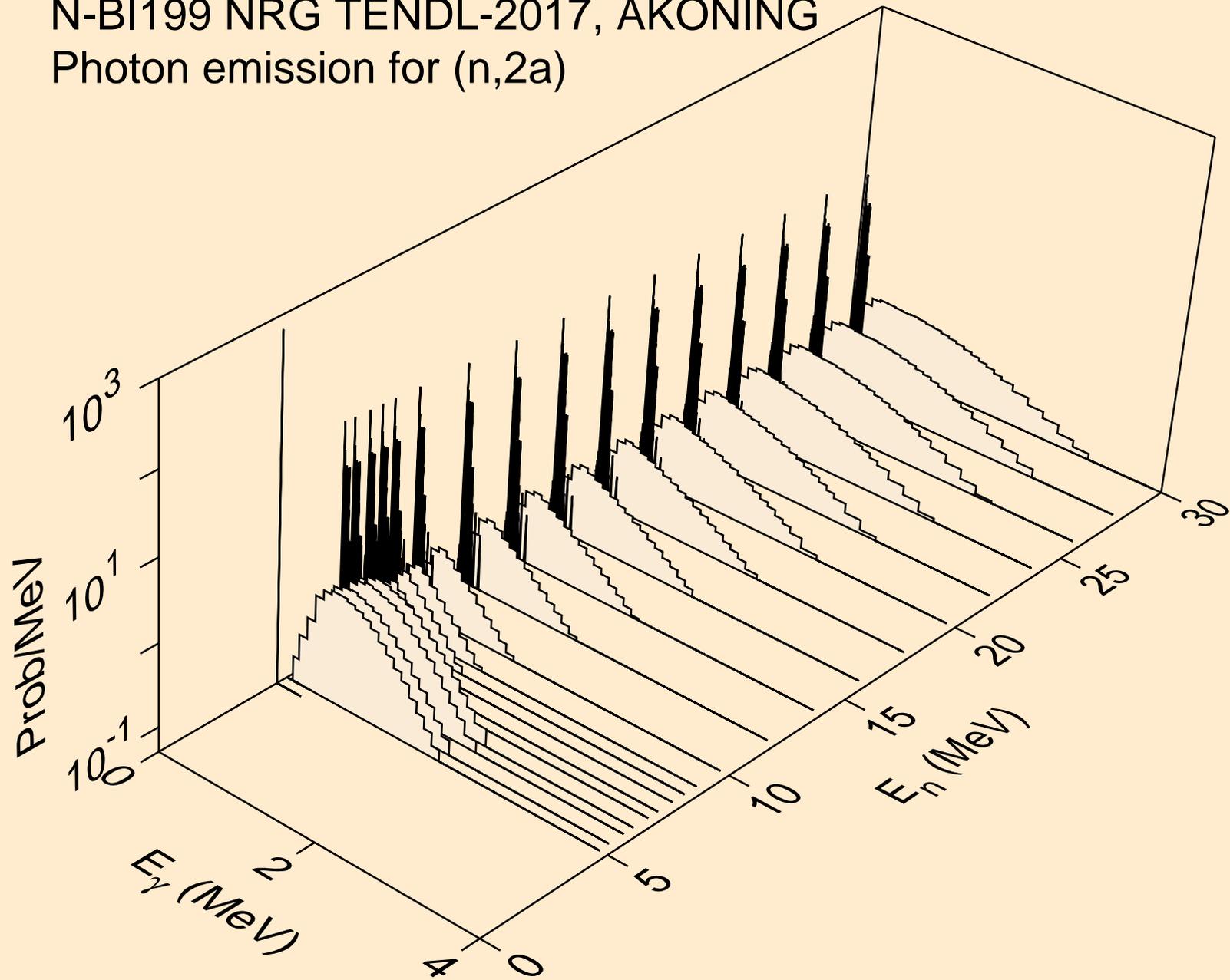
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Photon emission for (n,he3)



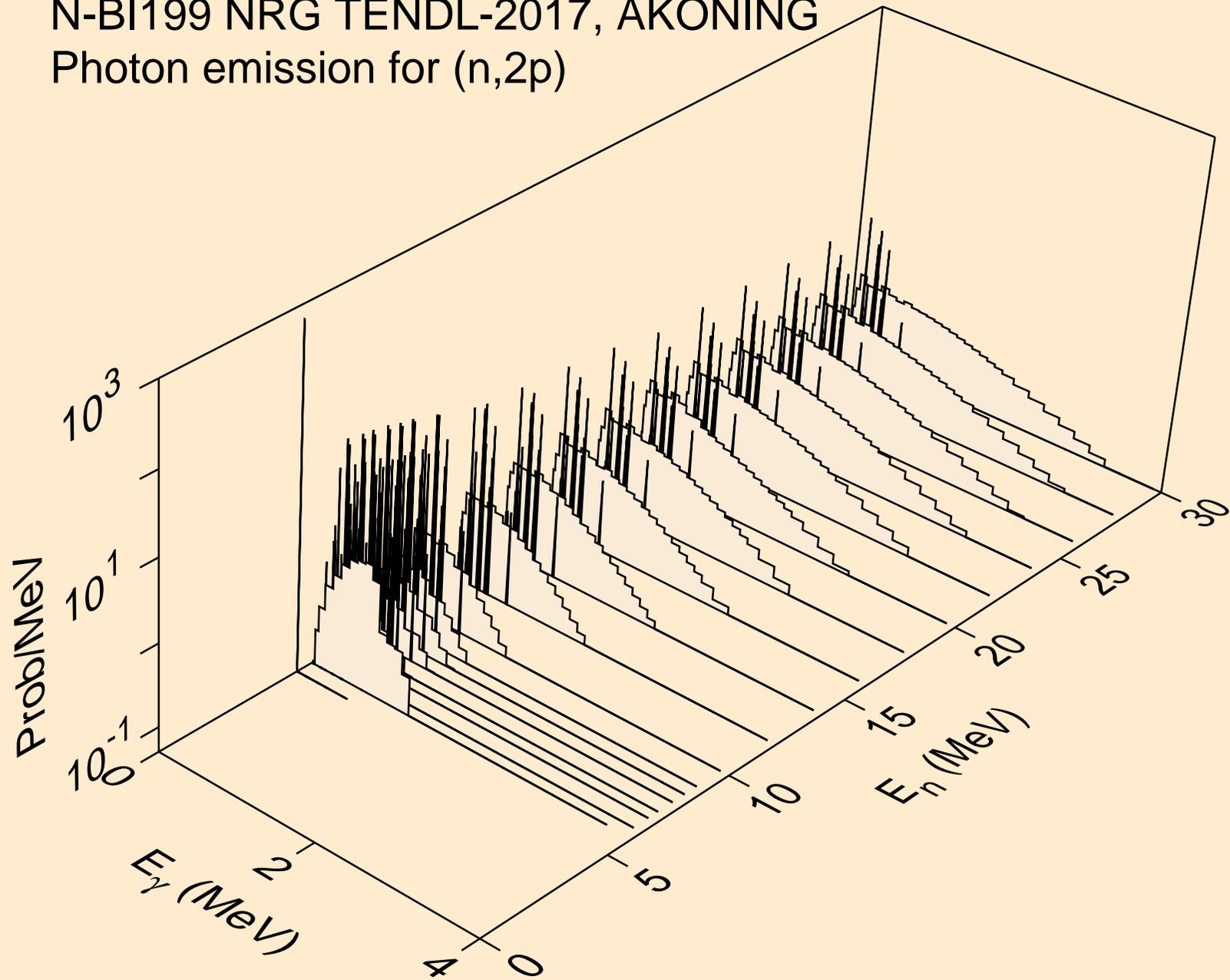
N-BI199 NRG TENDL-2017, AKONING  
Photon emission for (n,a)



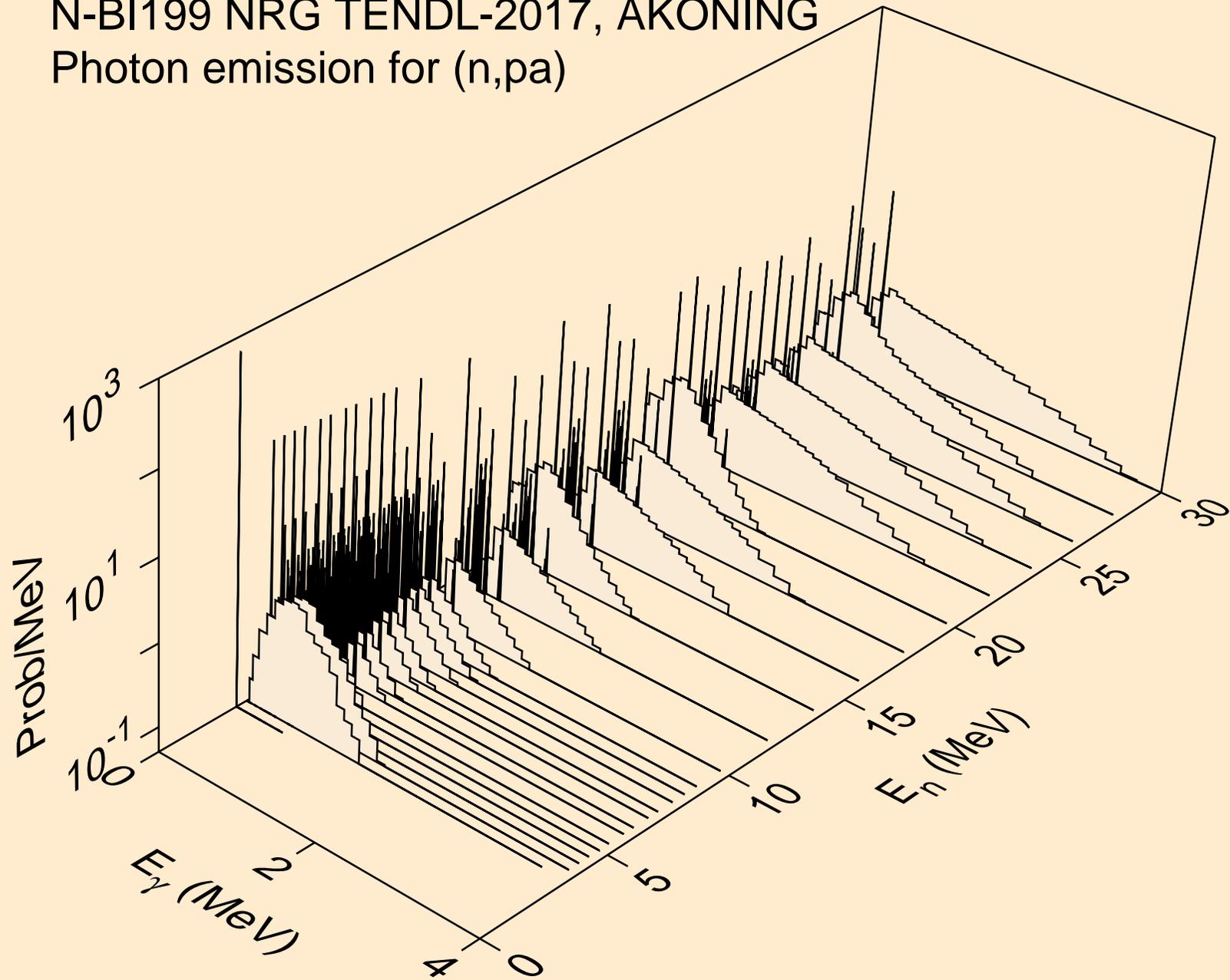
N-BI199 NRG TENDL-2017, AKONING  
Photon emission for (n,2a)



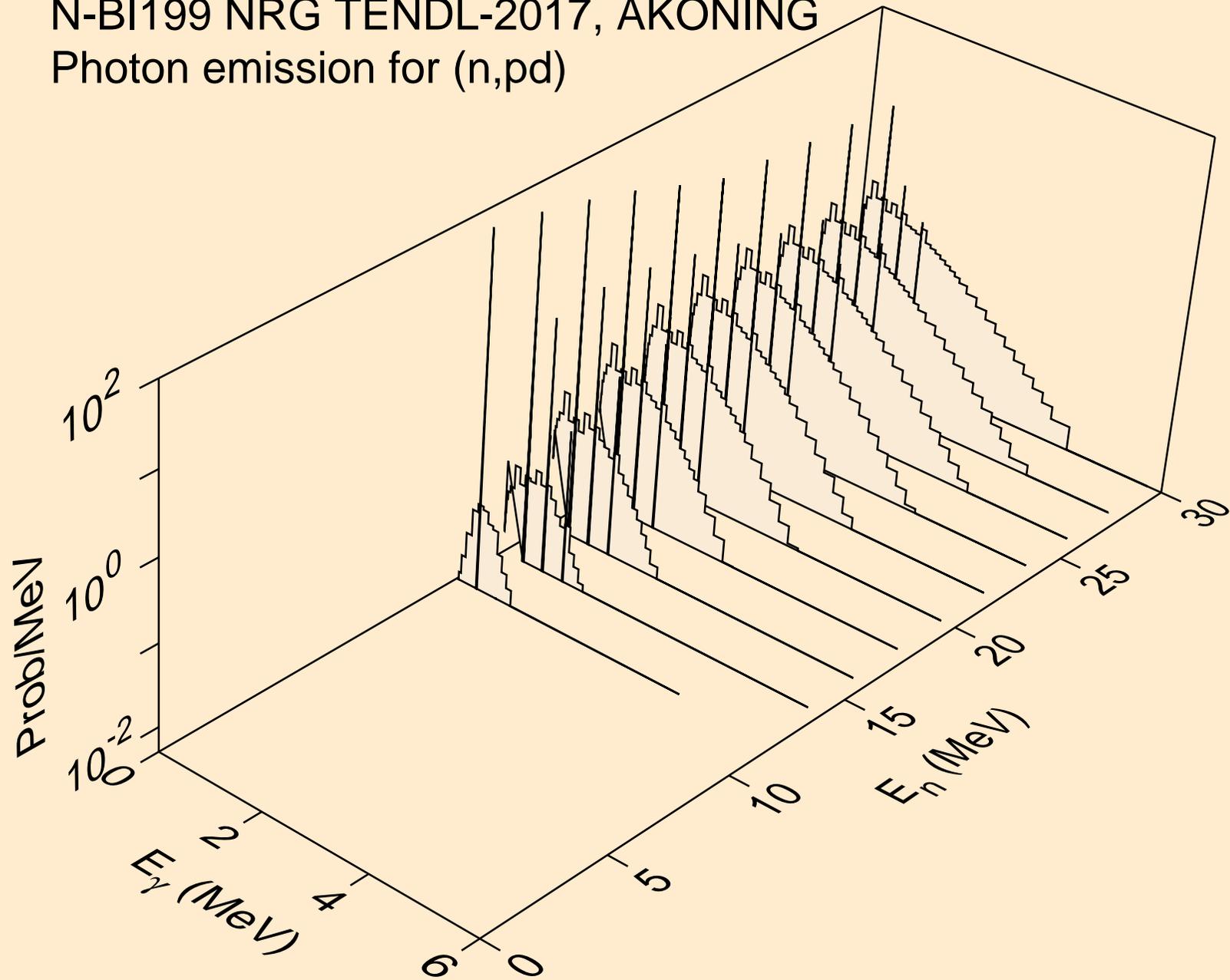
N-BI199 NRG TENDL-2017, AKONING  
Photon emission for (n,2p)



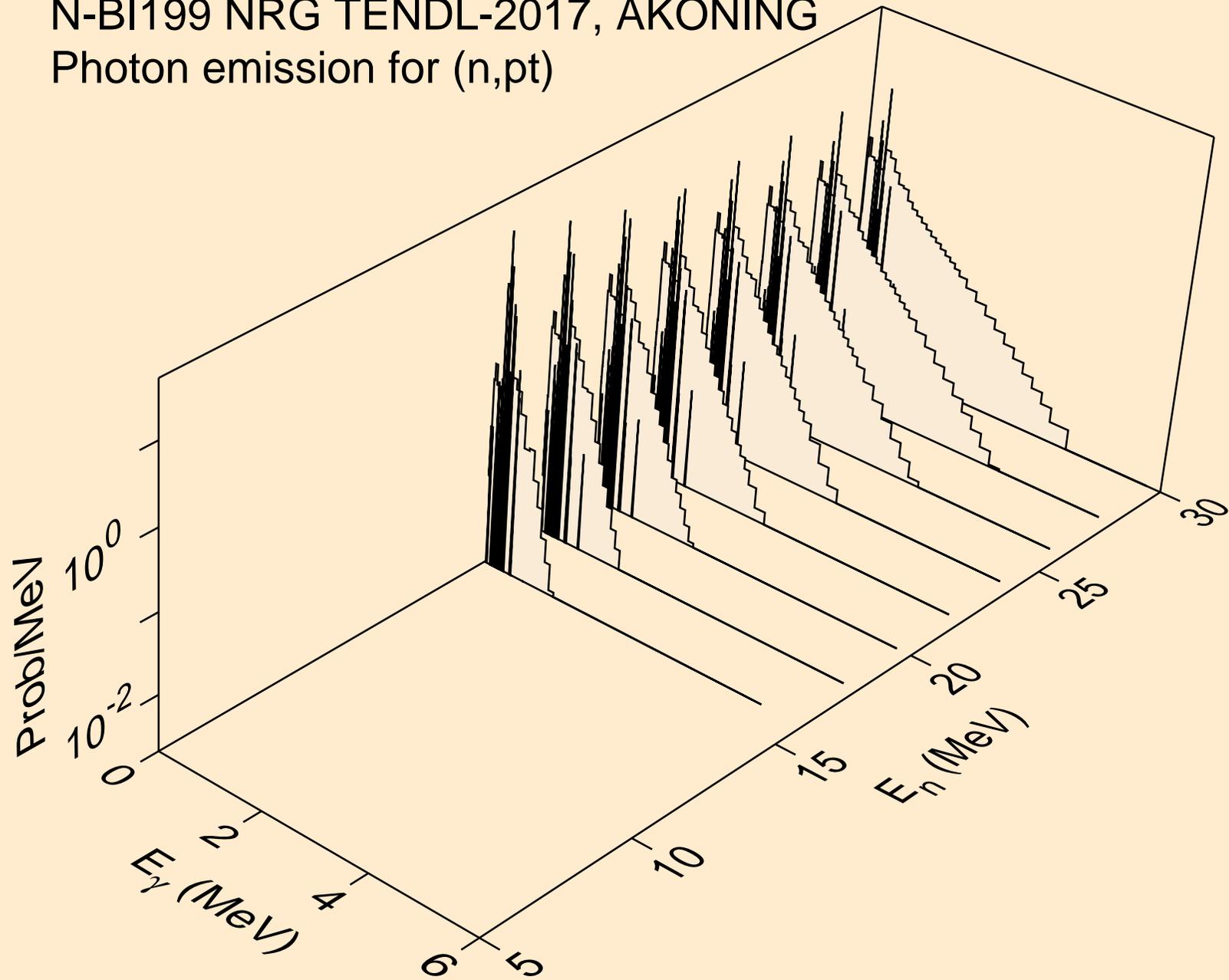
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Photon emission for (n,pa)



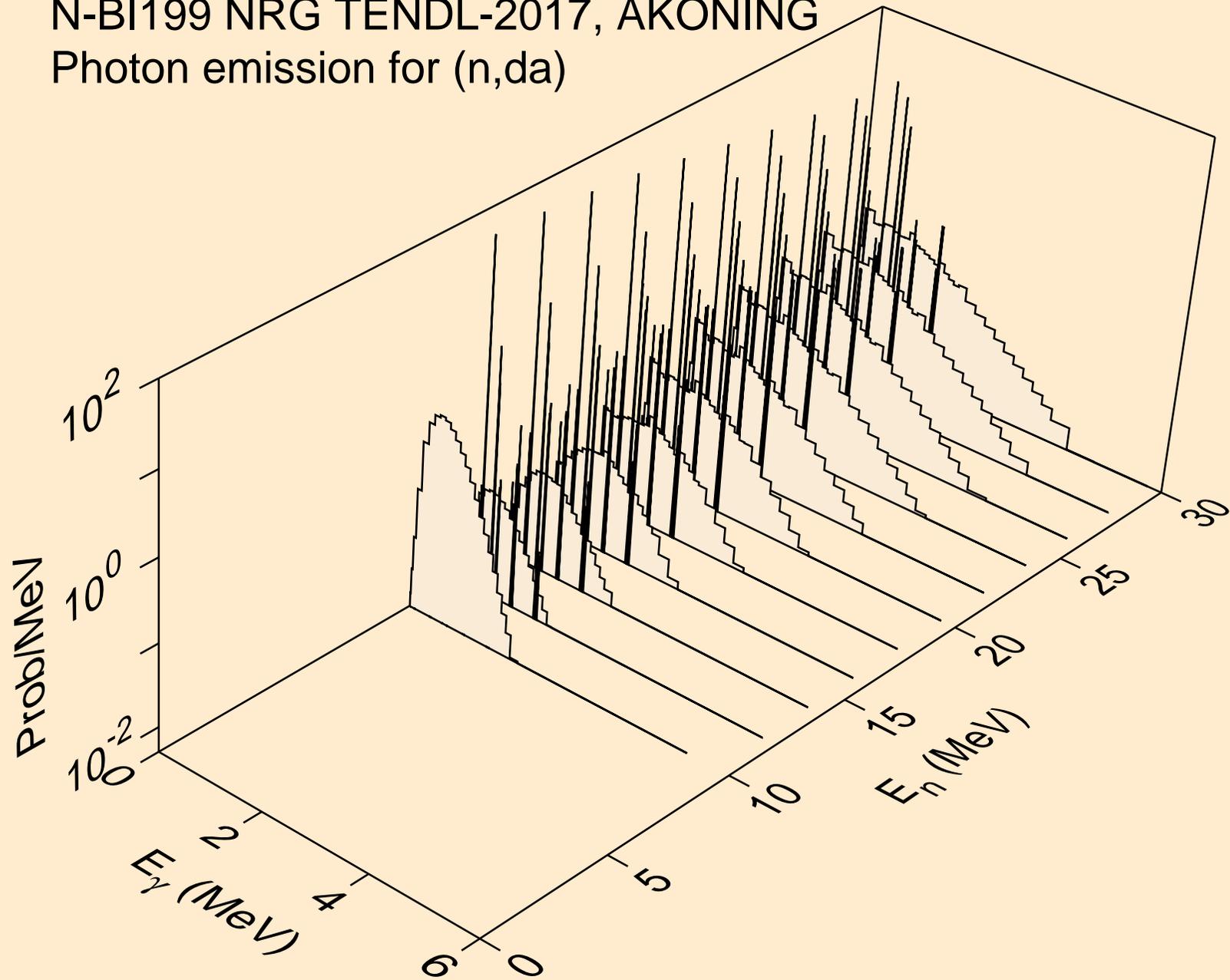
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Photon emission for (n,pd)



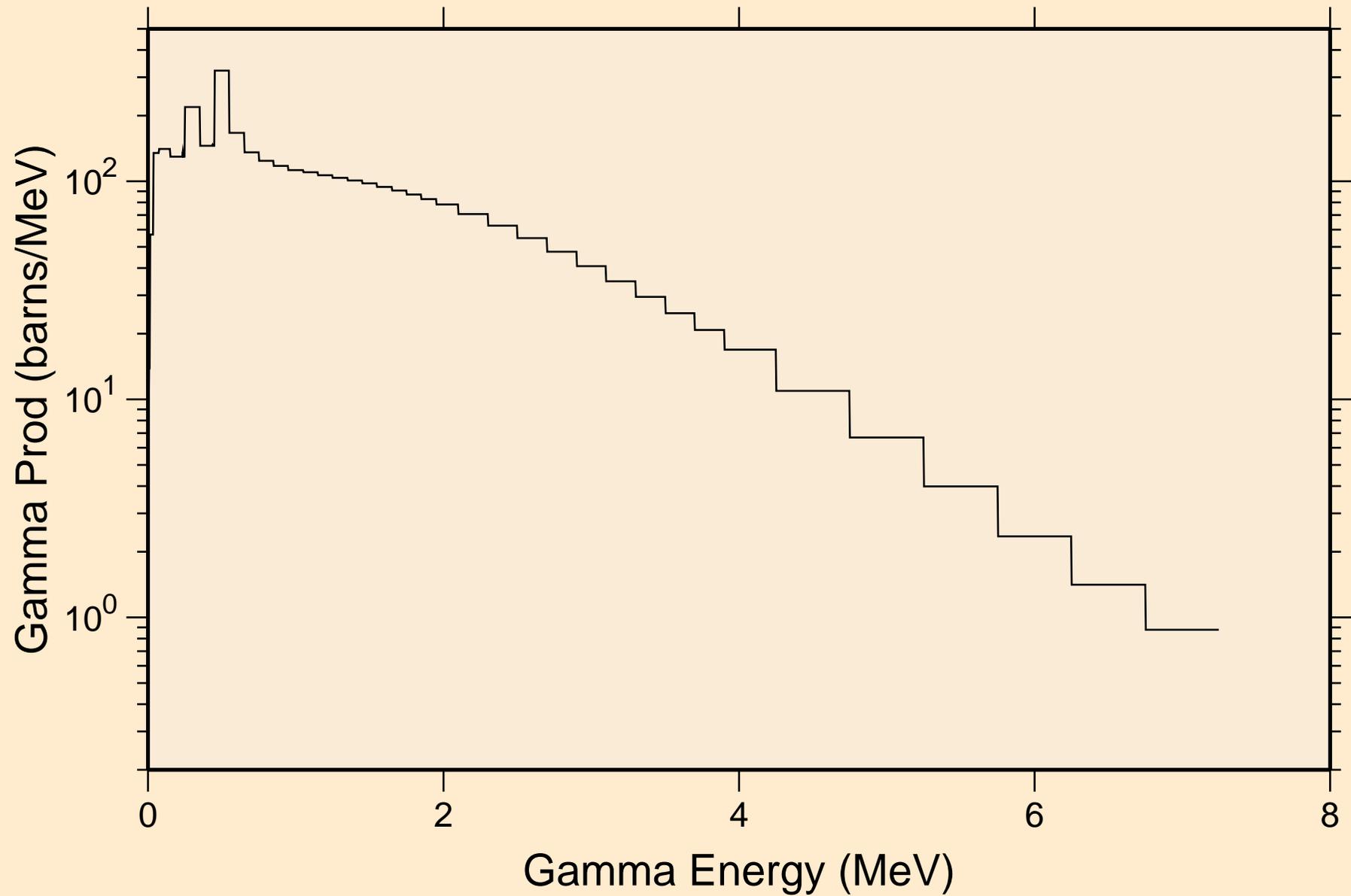
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Photon emission for (n,pt)



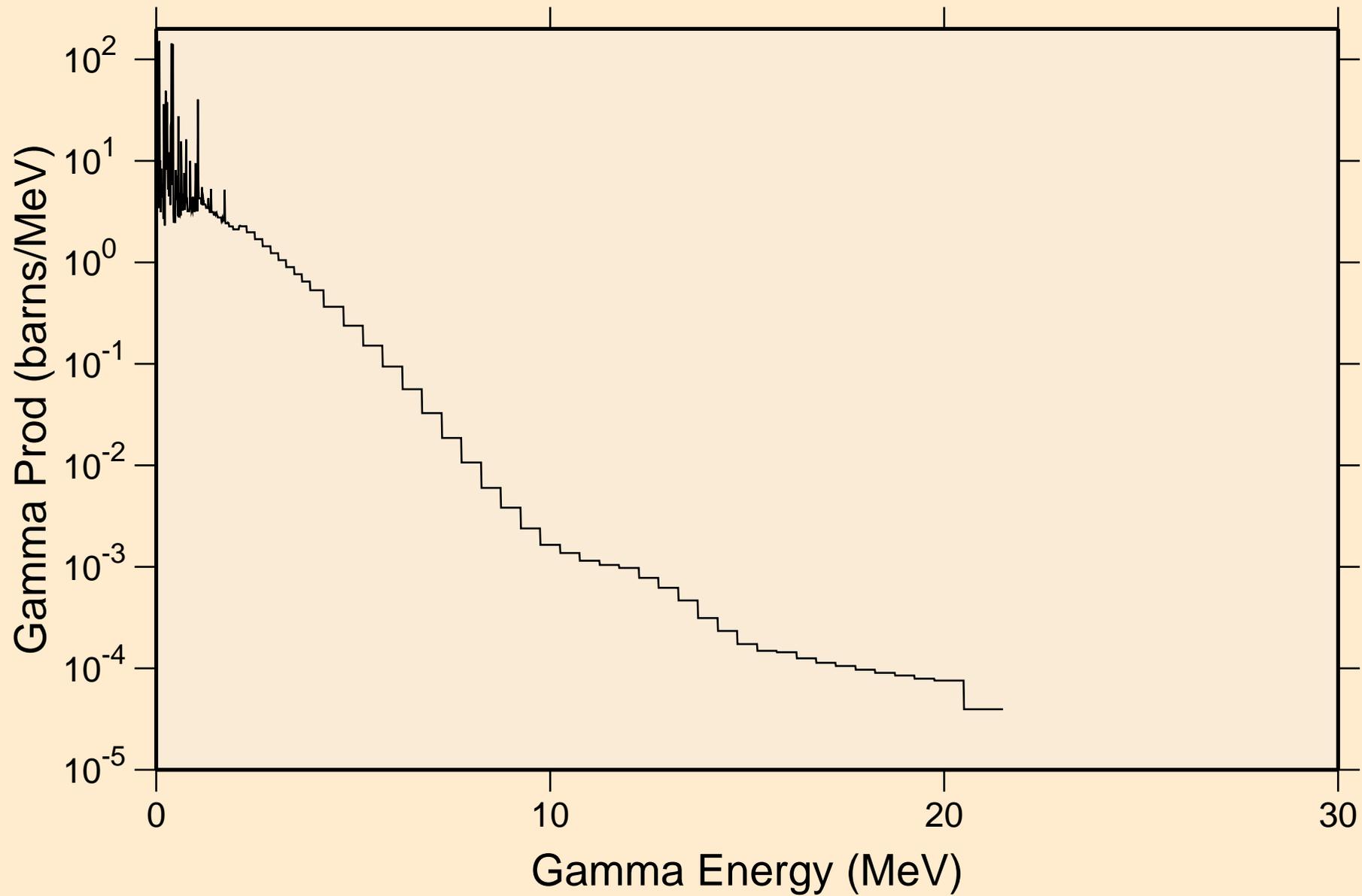
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Photon emission for (n,da)



N-BI199 NRG TENDL-2017, AKONING  
thermal capture photon spectrum

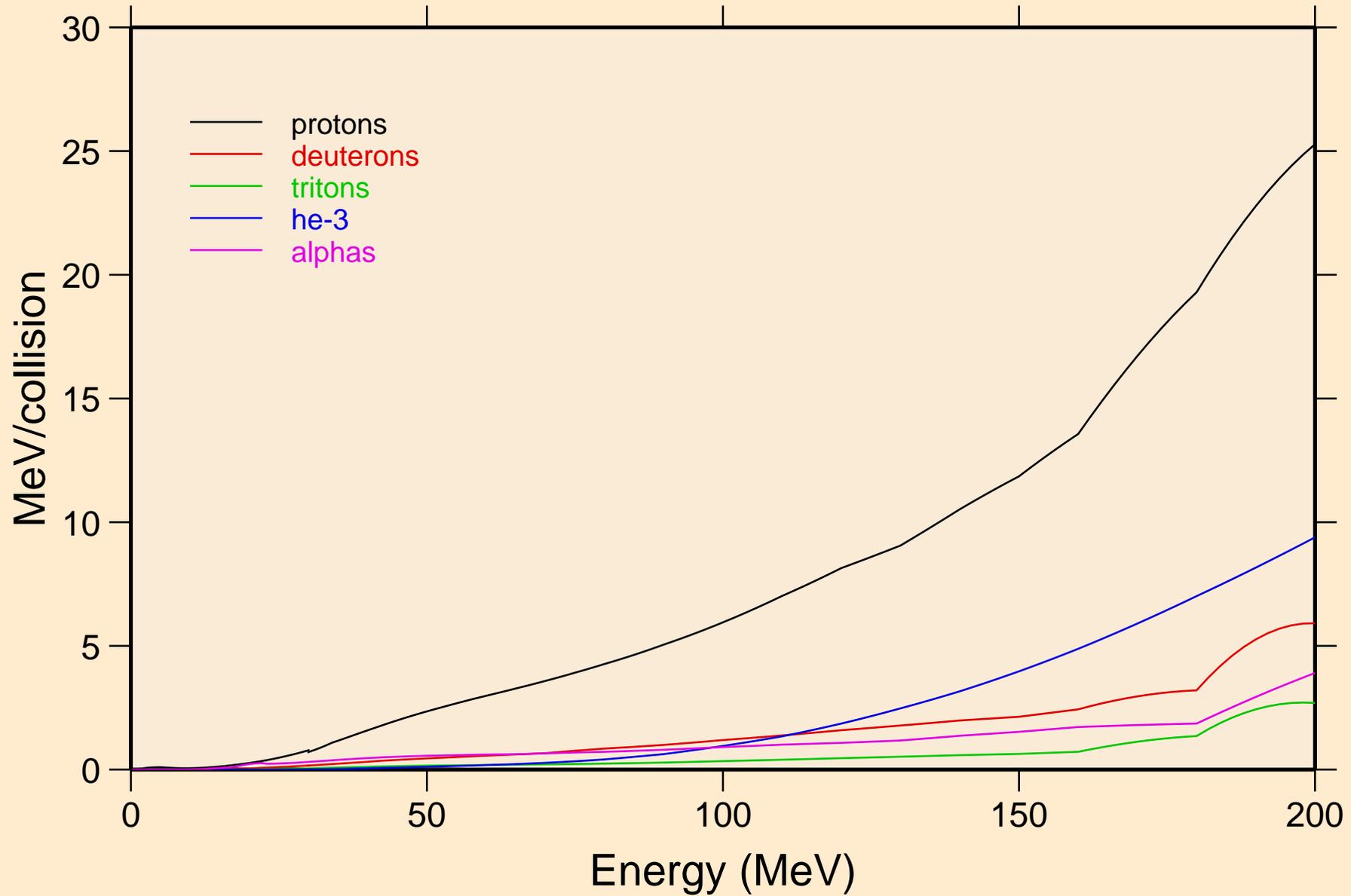


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14 MeV photon spectrum



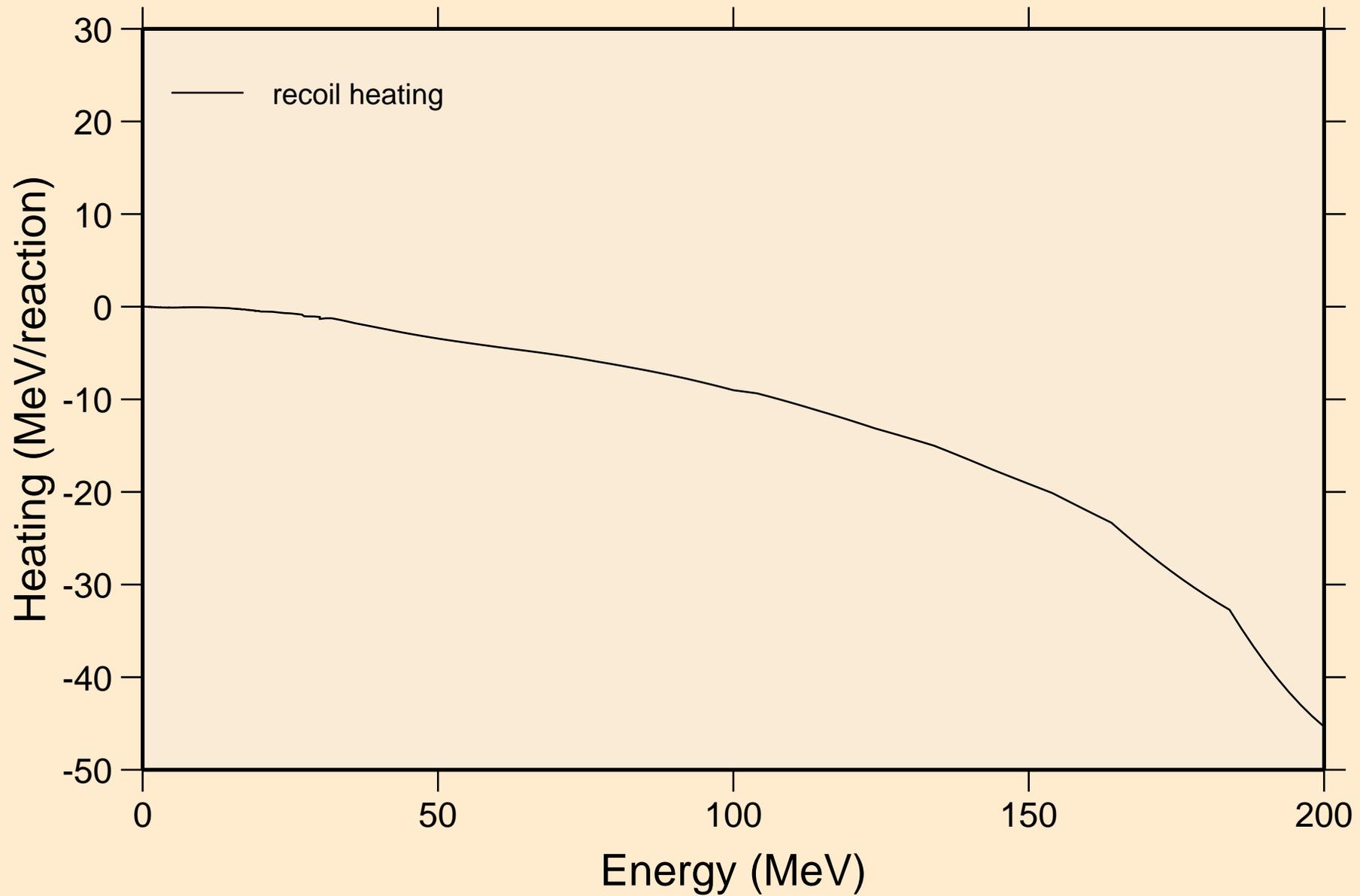
# N-BI199 NRG TENDL-2017, AKONING

## Particle heating contributions



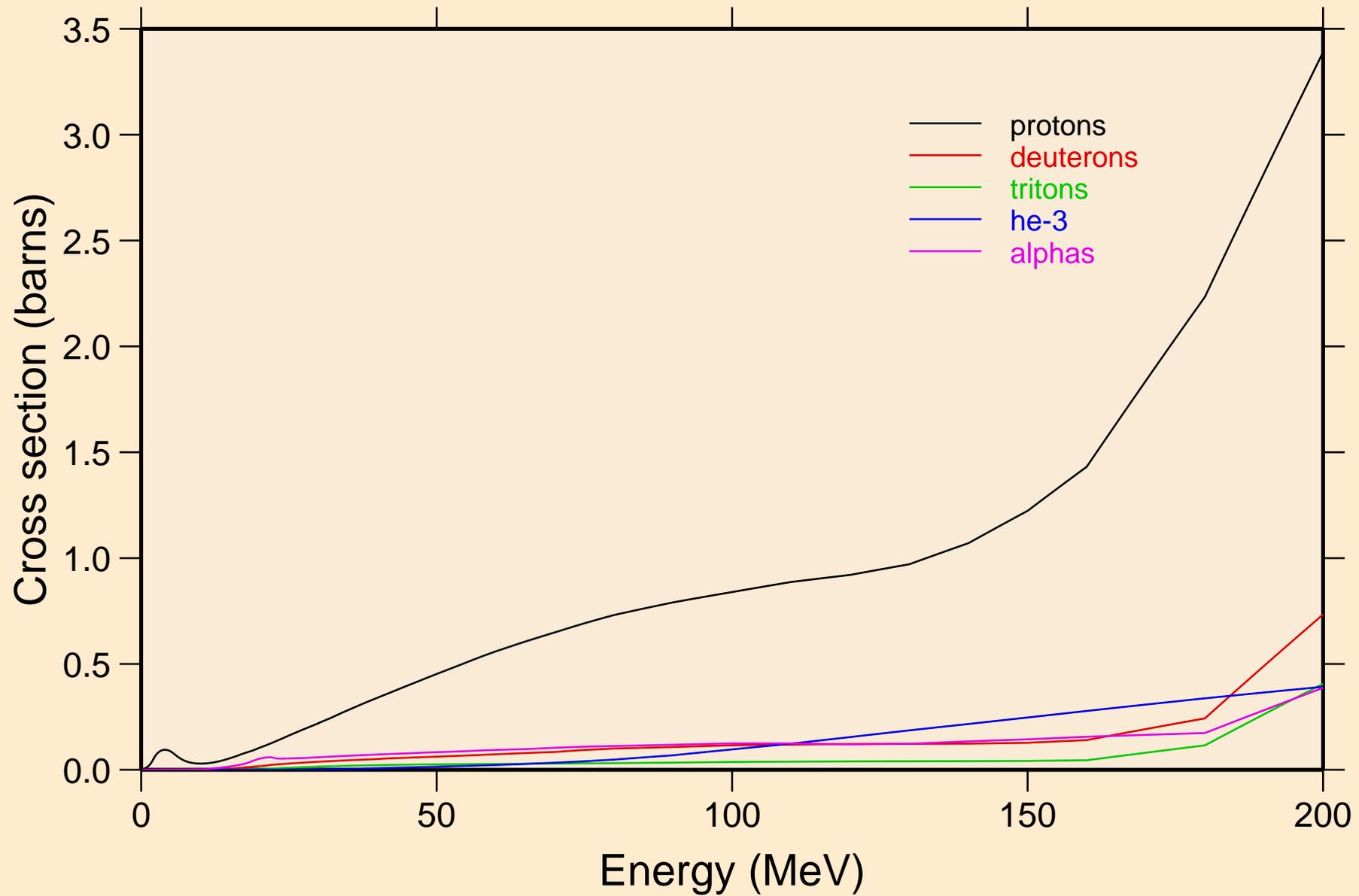
# N-BI199 NRG TENDL-2017, AKONING

## Recoil Heating

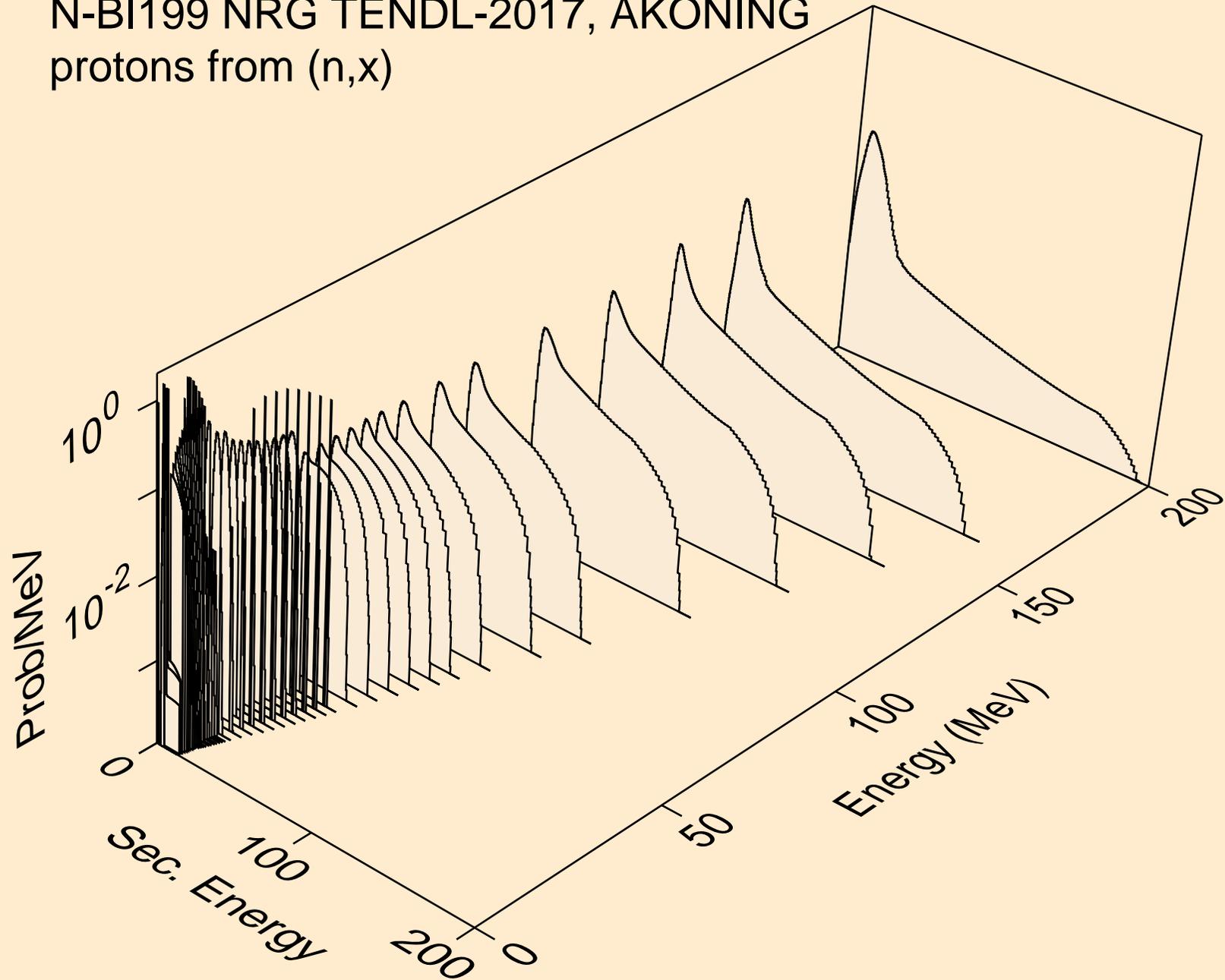


# N-BI199 NRG TENDL-2017, AKONING

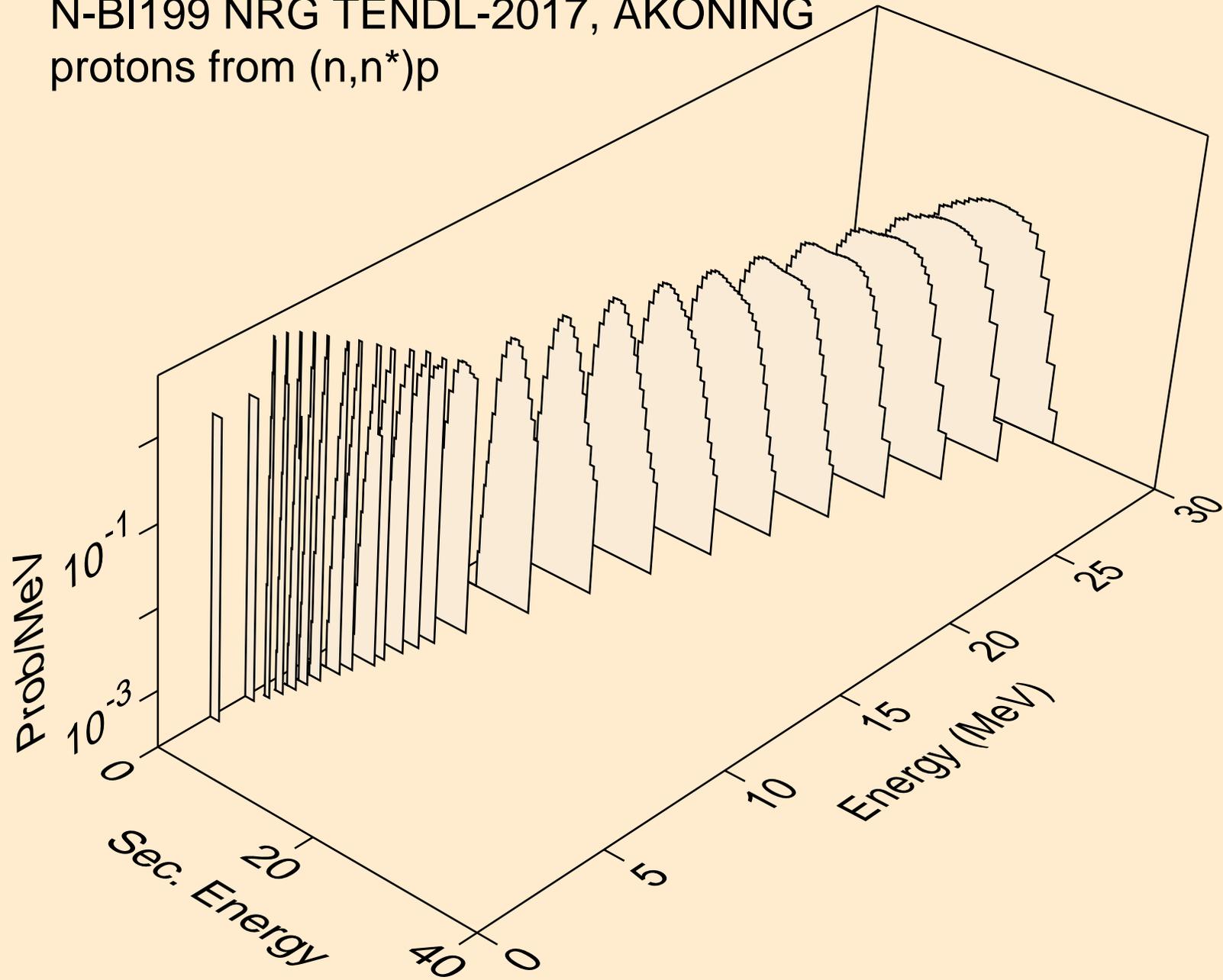
## Particle production cross sections



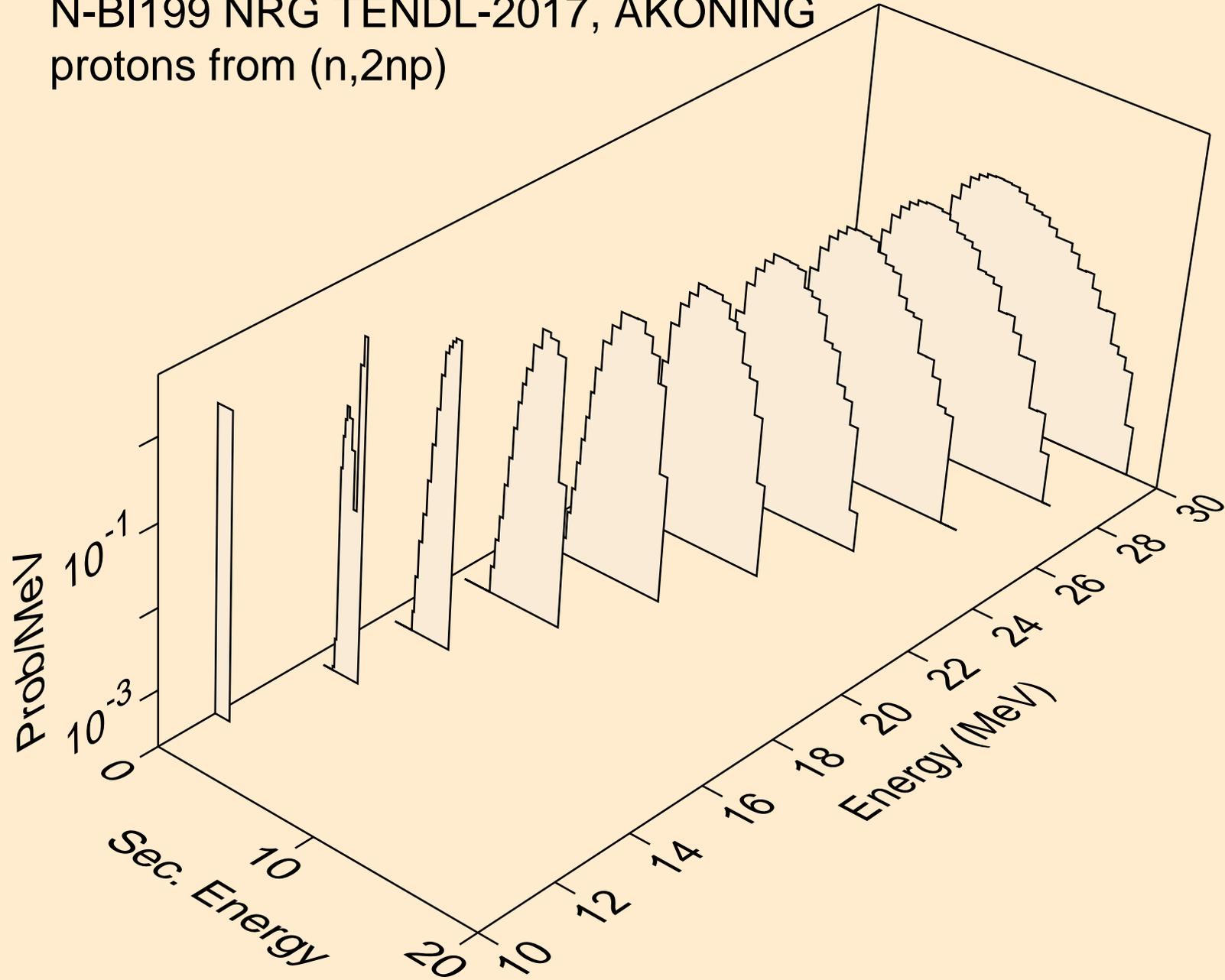
N-BI199 NRG TENDL-2017, AKONING  
protons from (n,x)



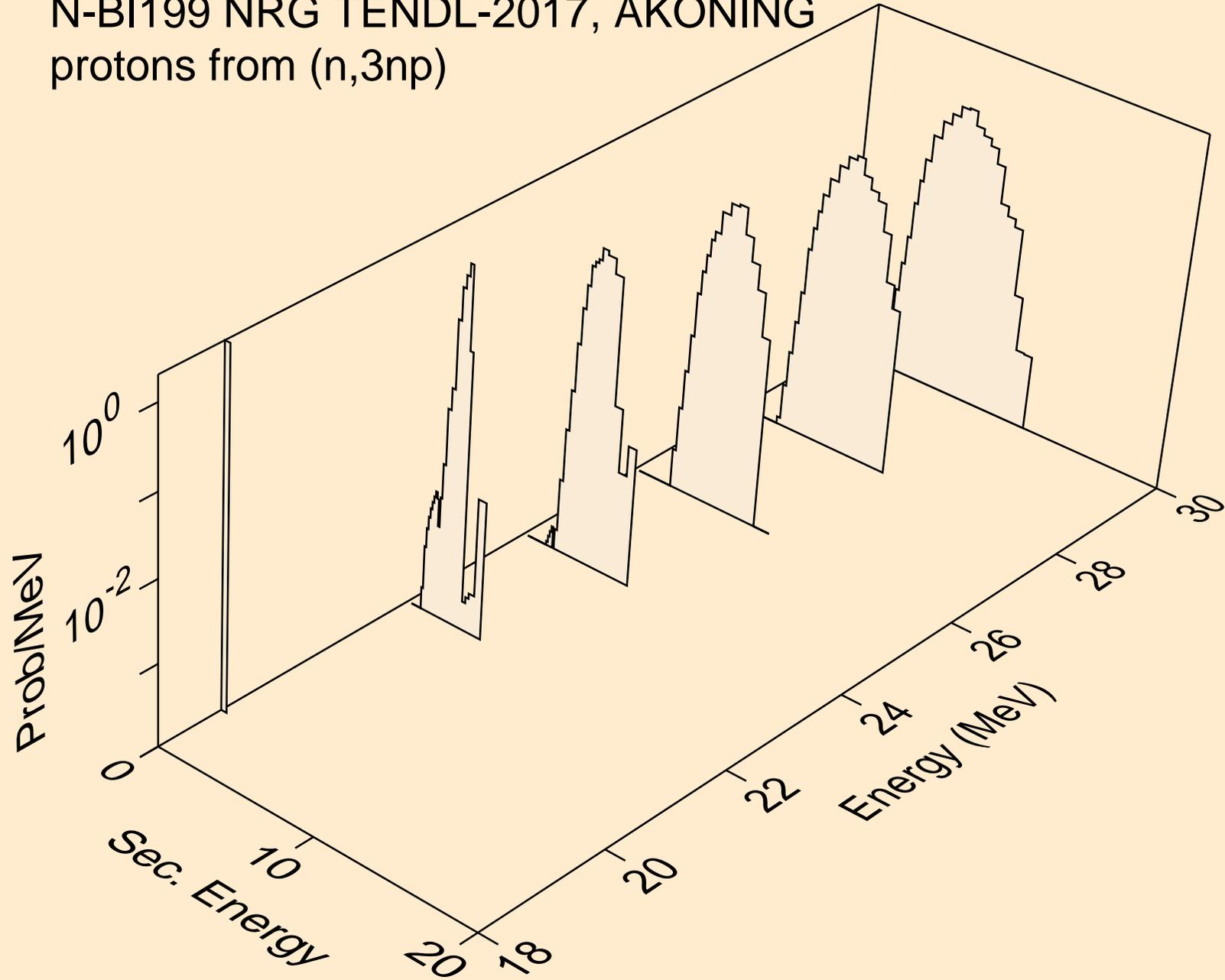
N-BI199 NRG TENDL-2017, AKONING  
protons from (n,n\*)p



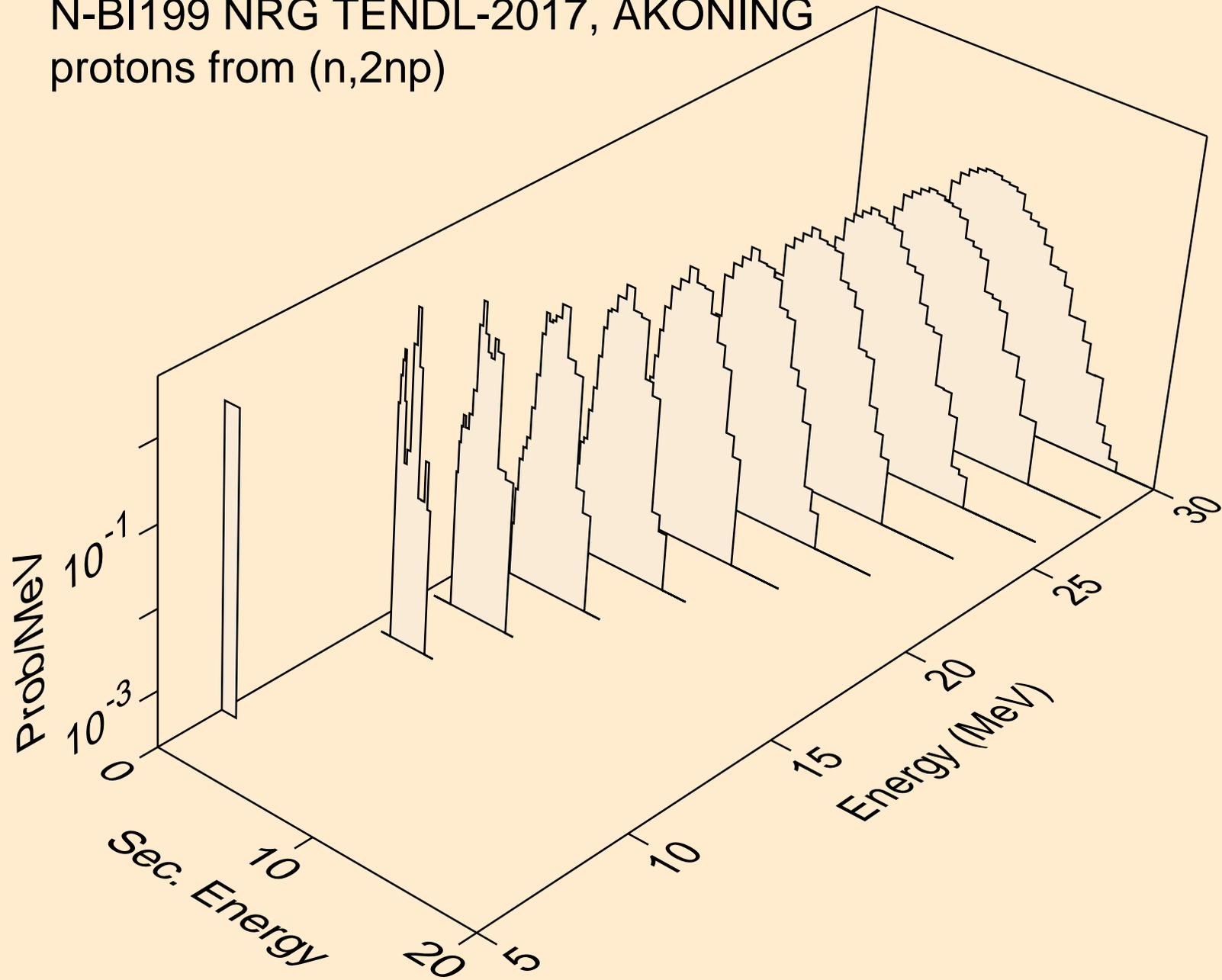
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protons from (n,2np)



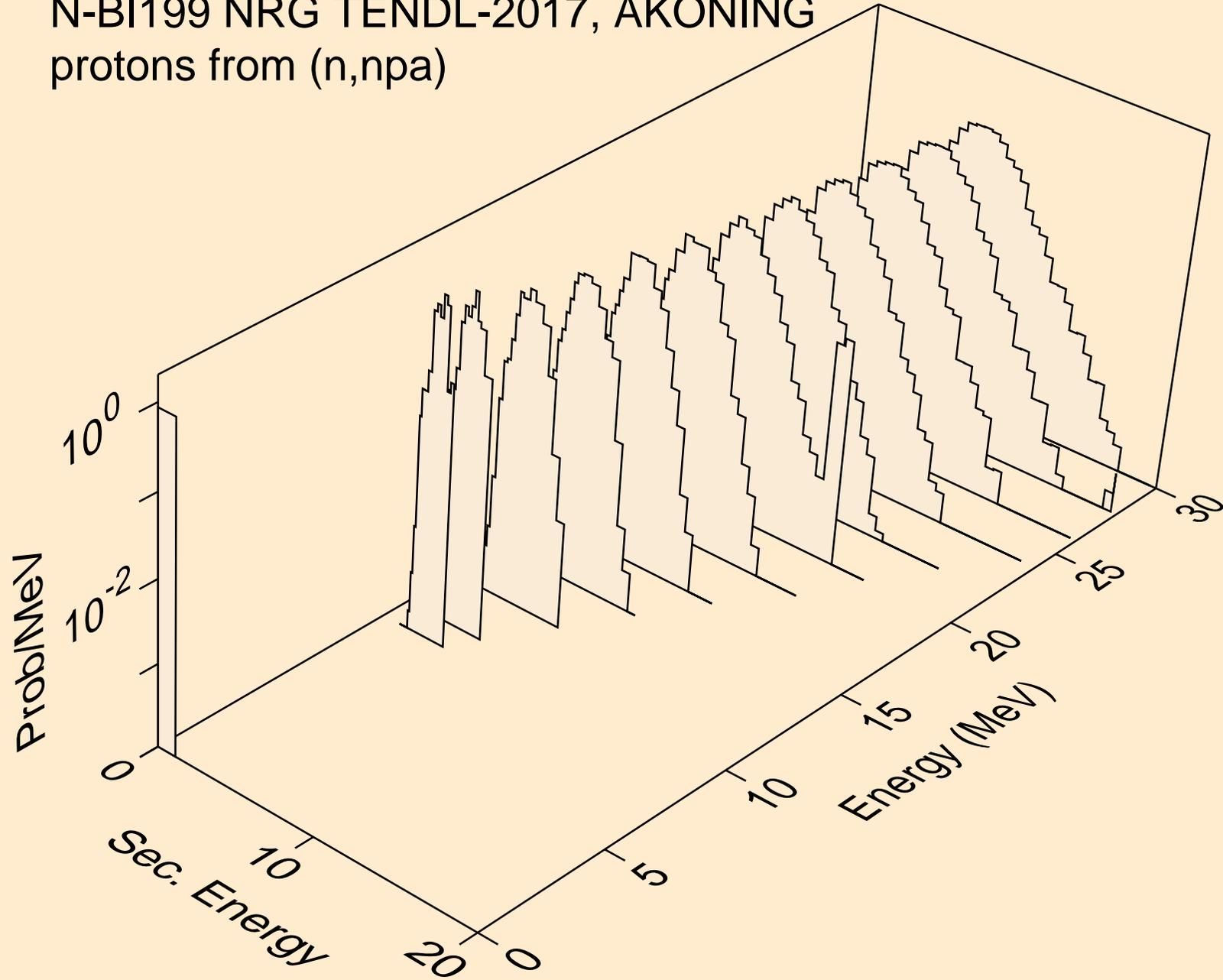
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protons from (n,3np)



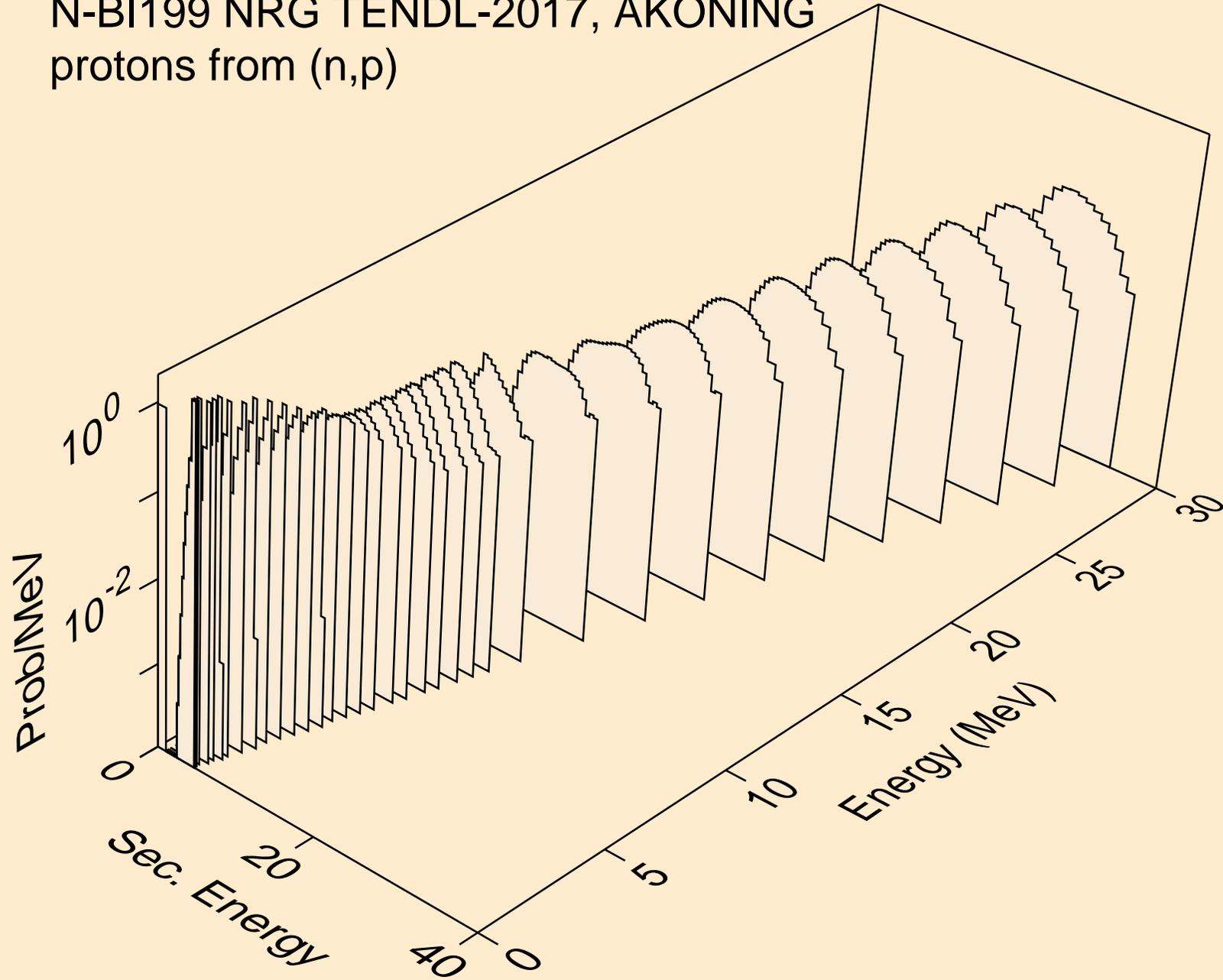
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protons from (n,2np)



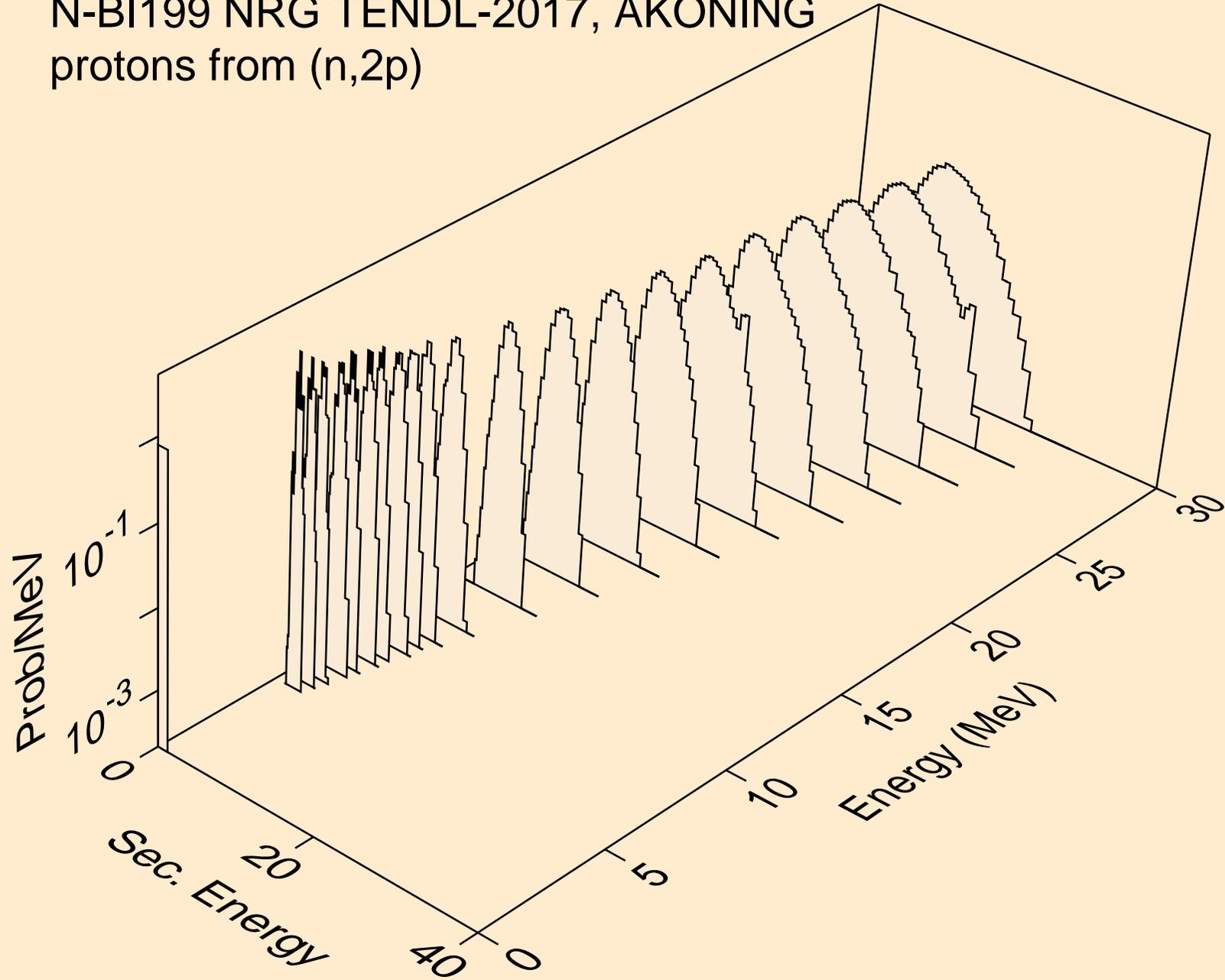
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protons from (n,npa)



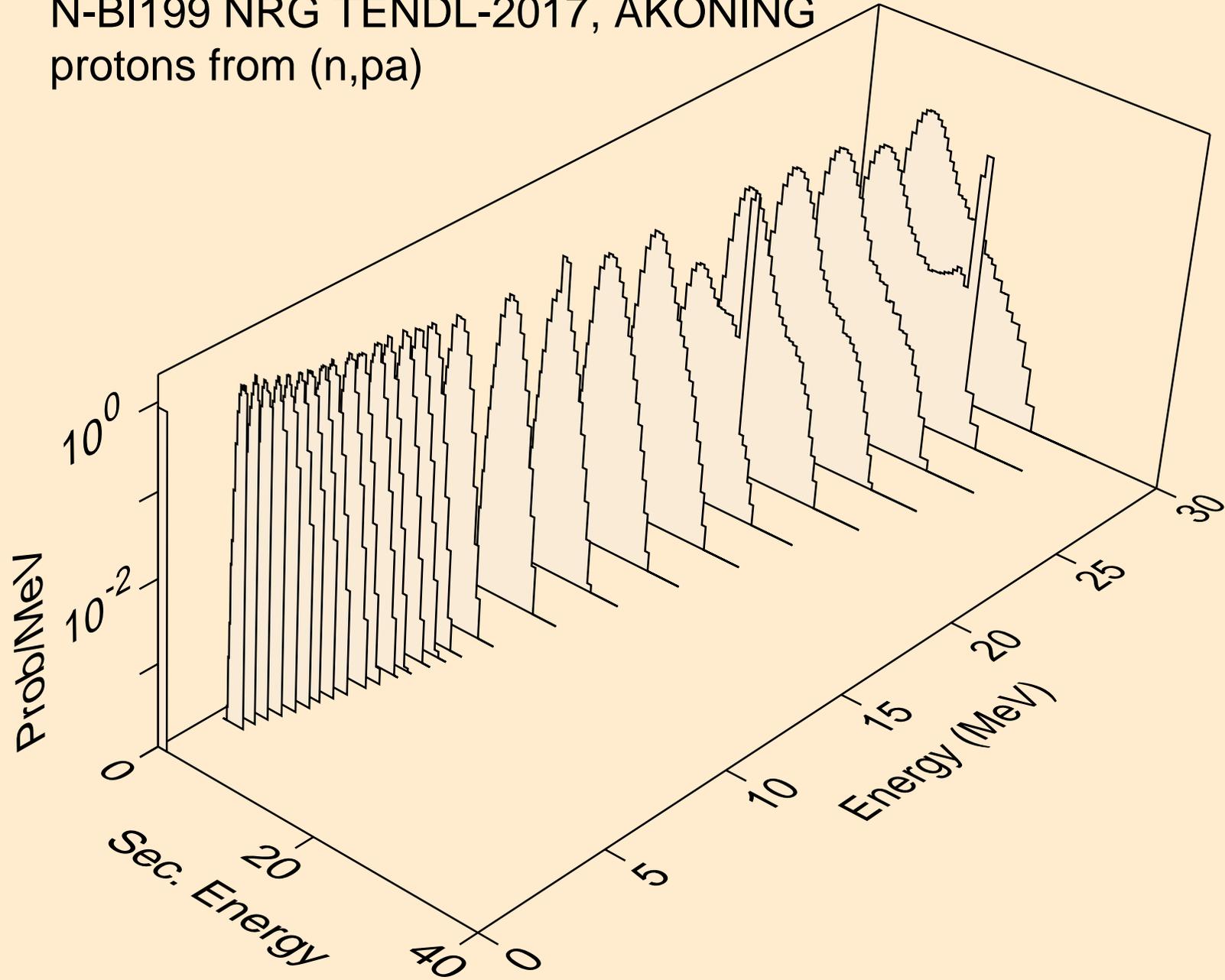
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protons from (n,p)



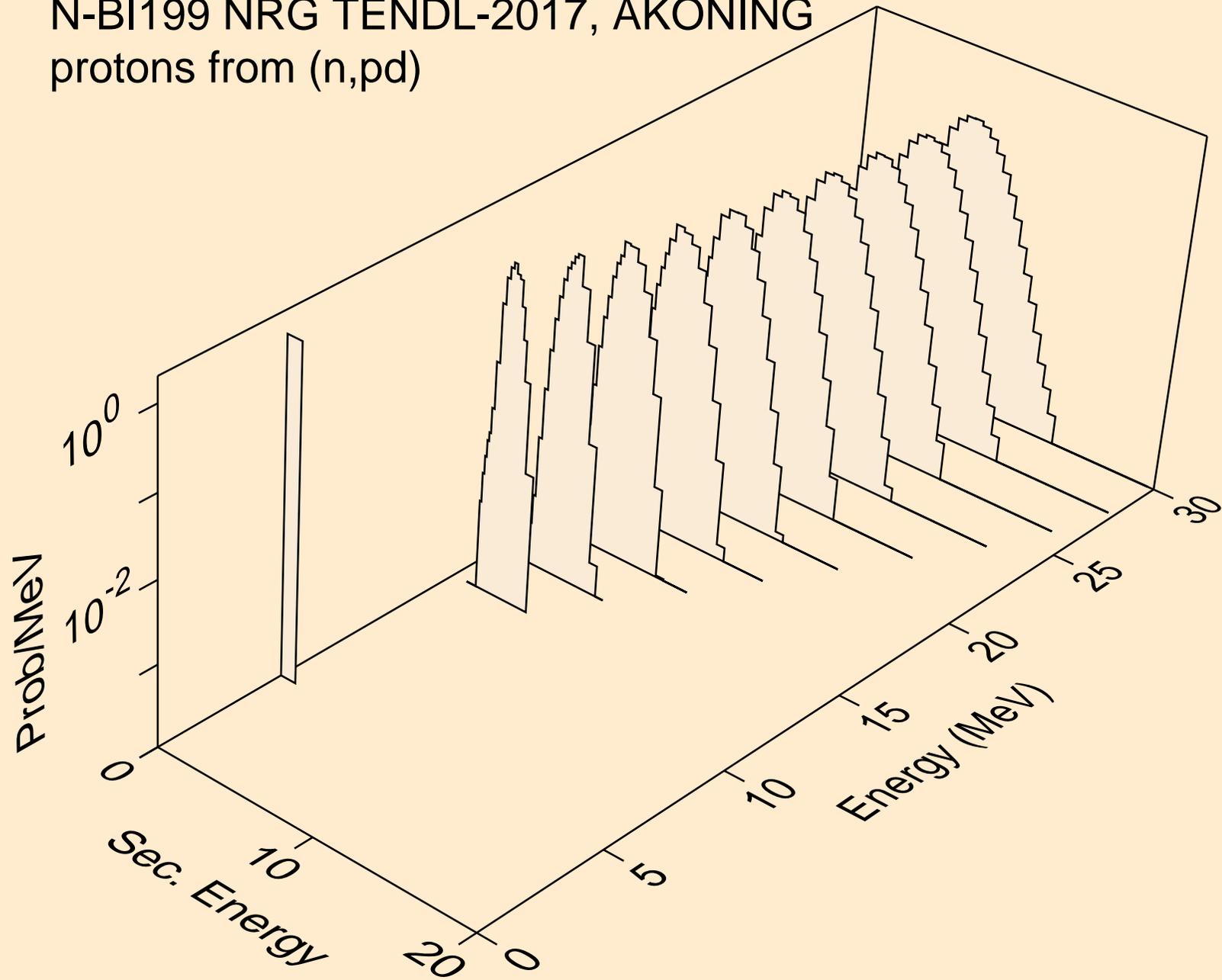
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protons from (n,2p)



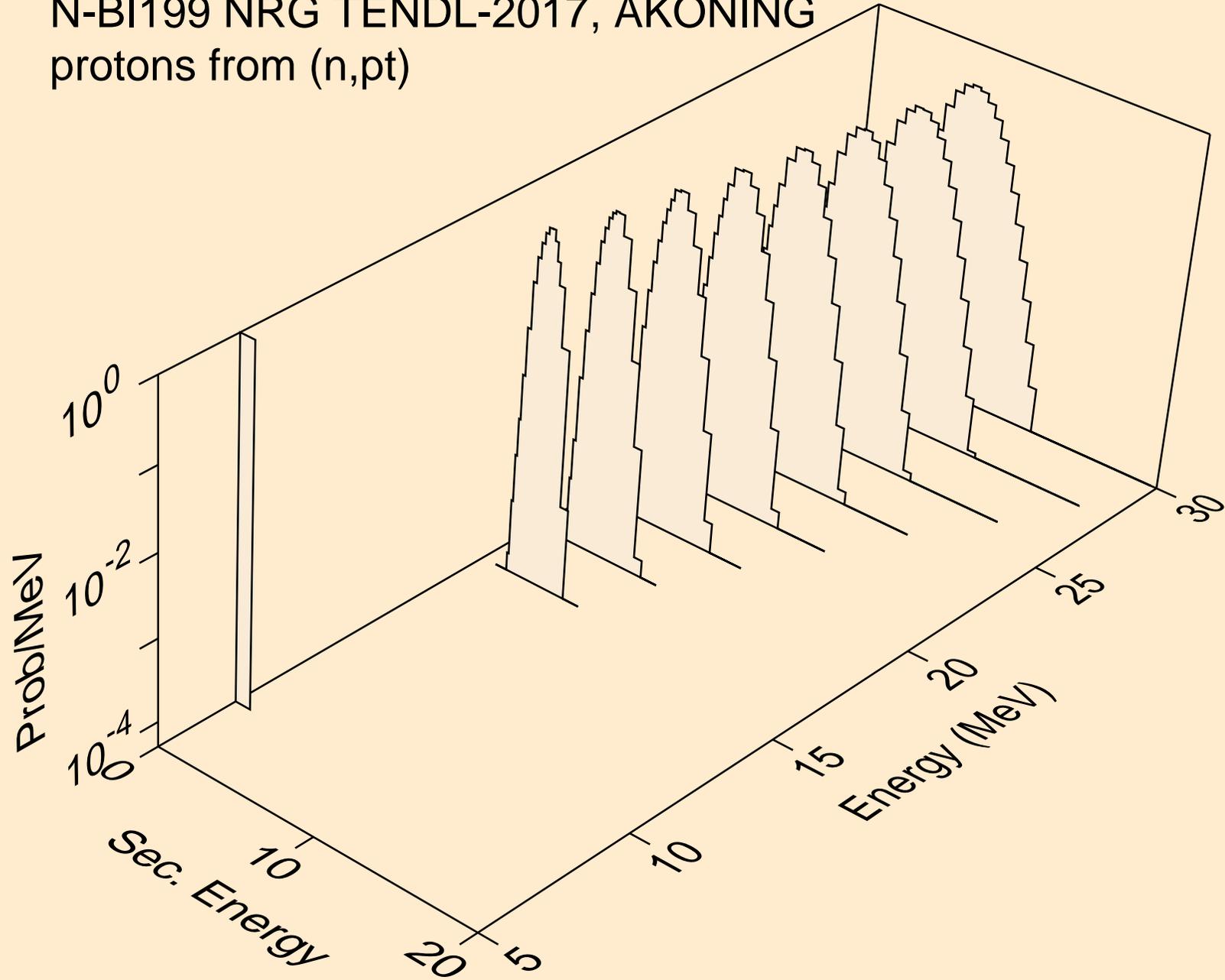
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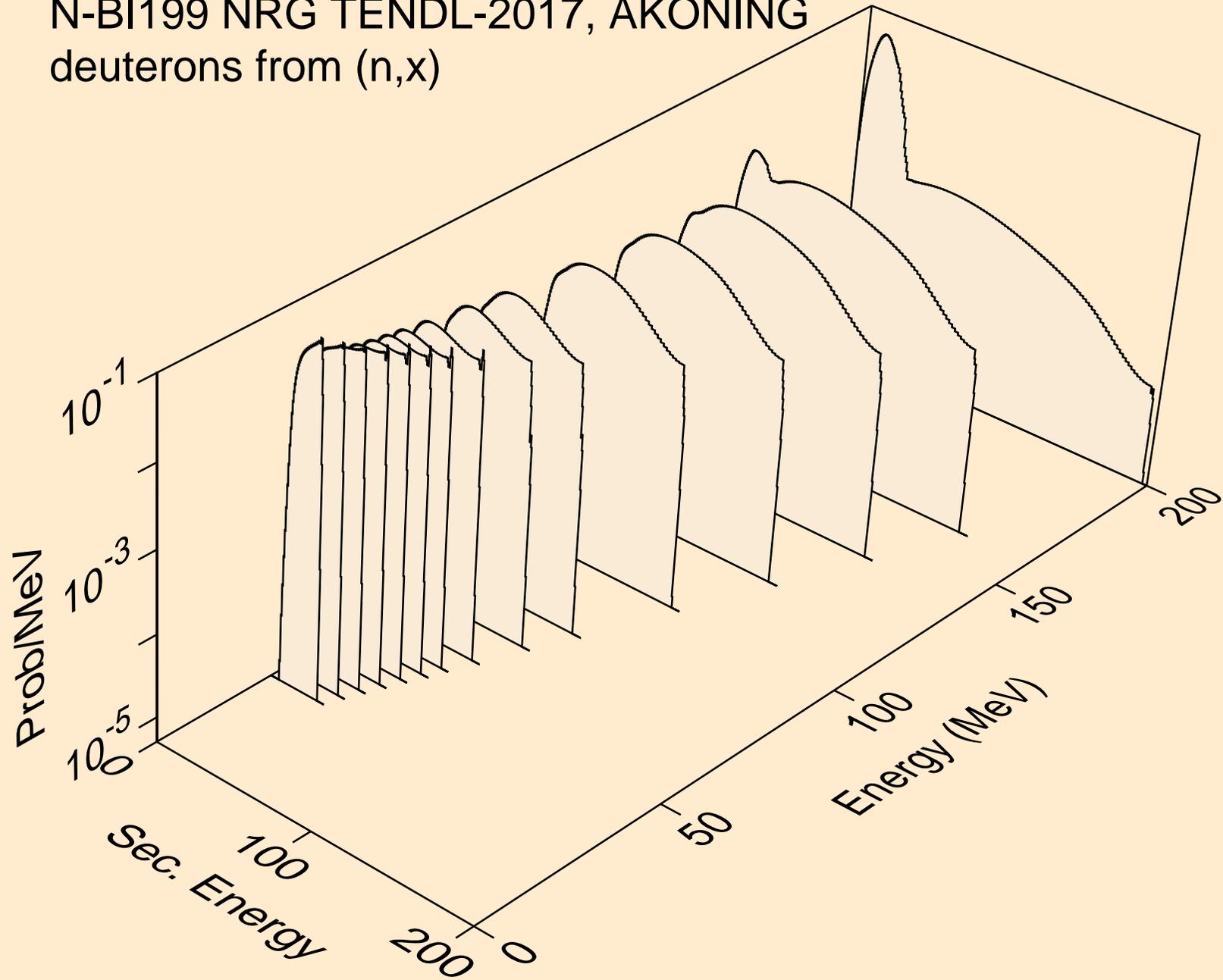
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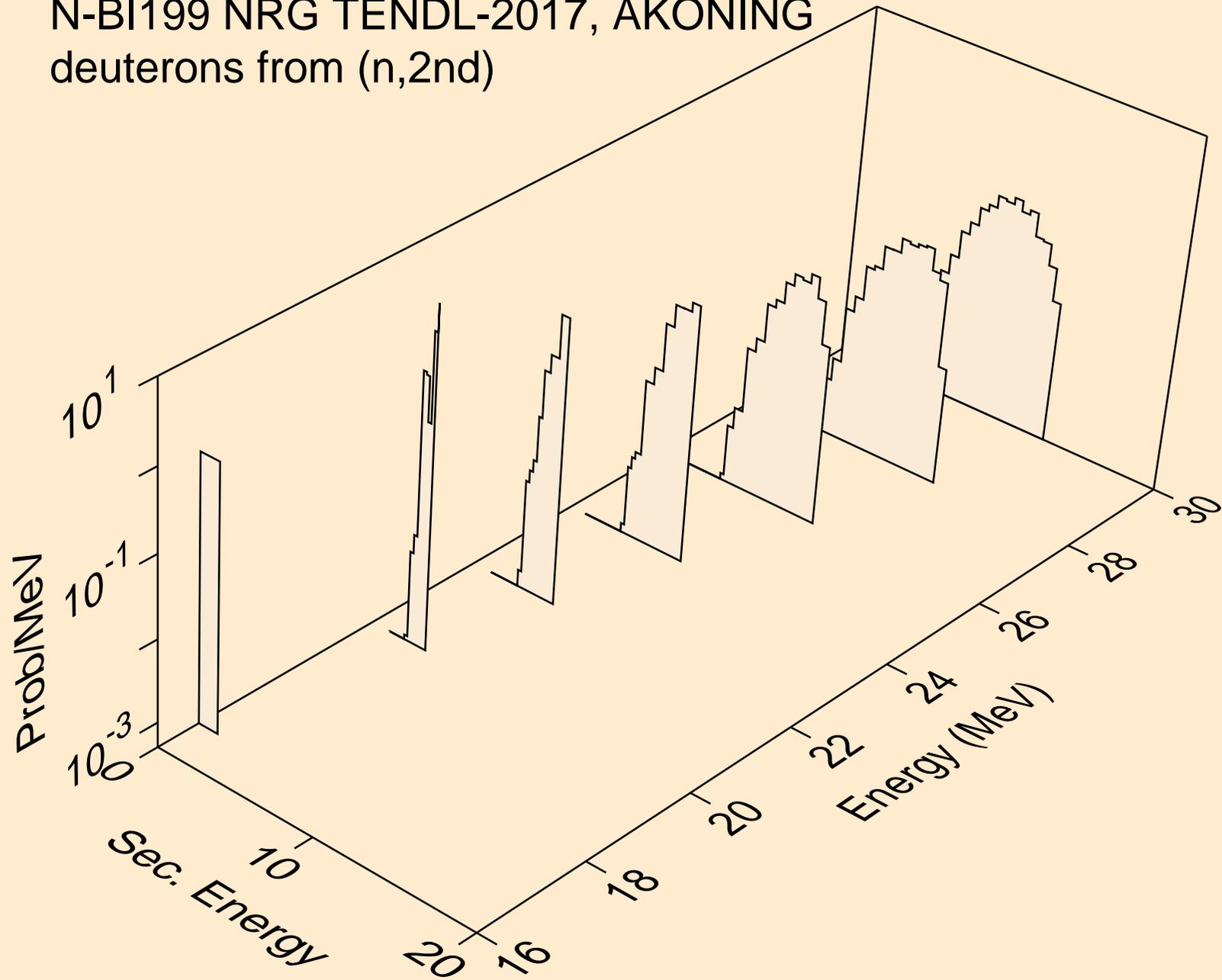
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protons from (n,pt)



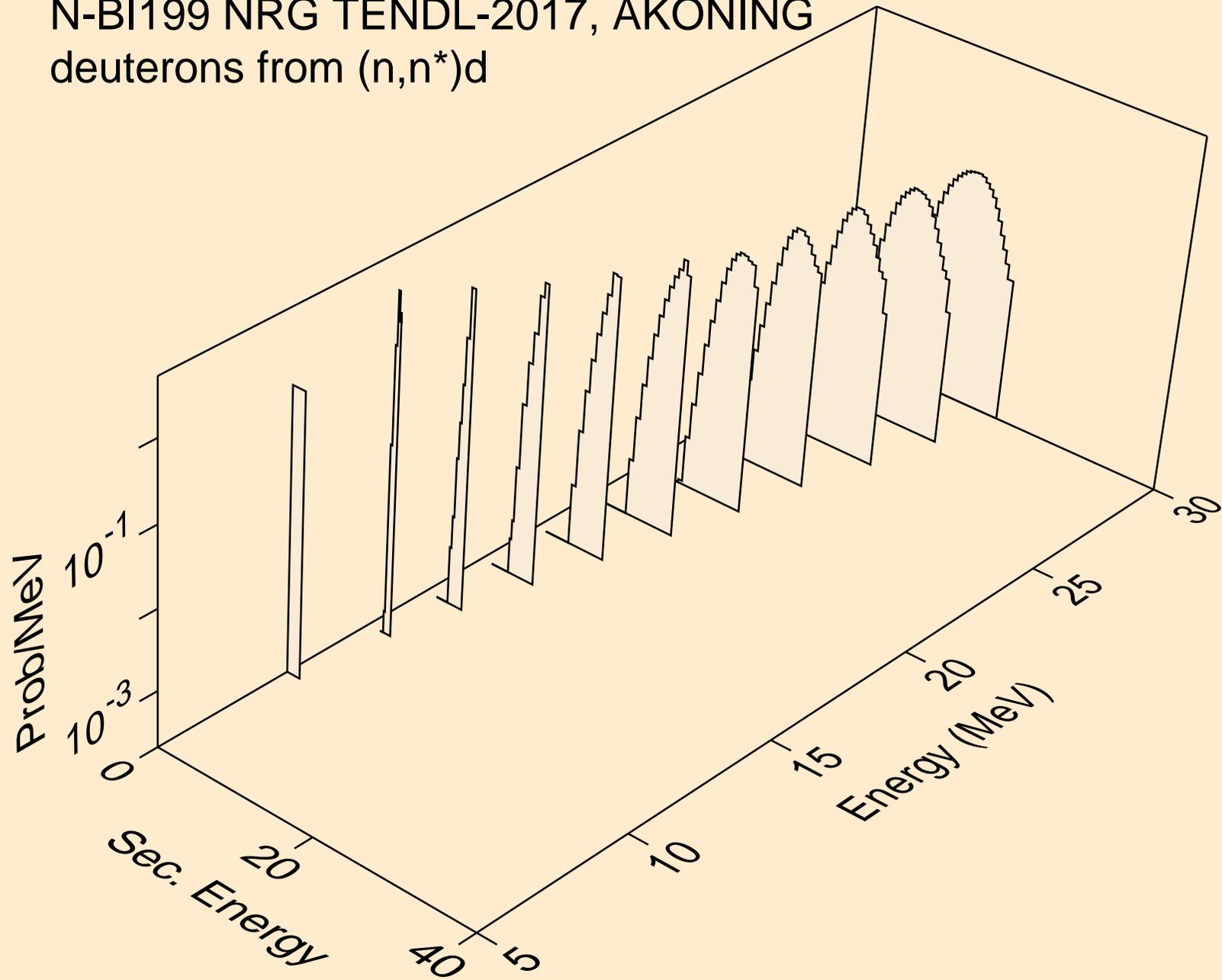
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deuterons from (n,x)



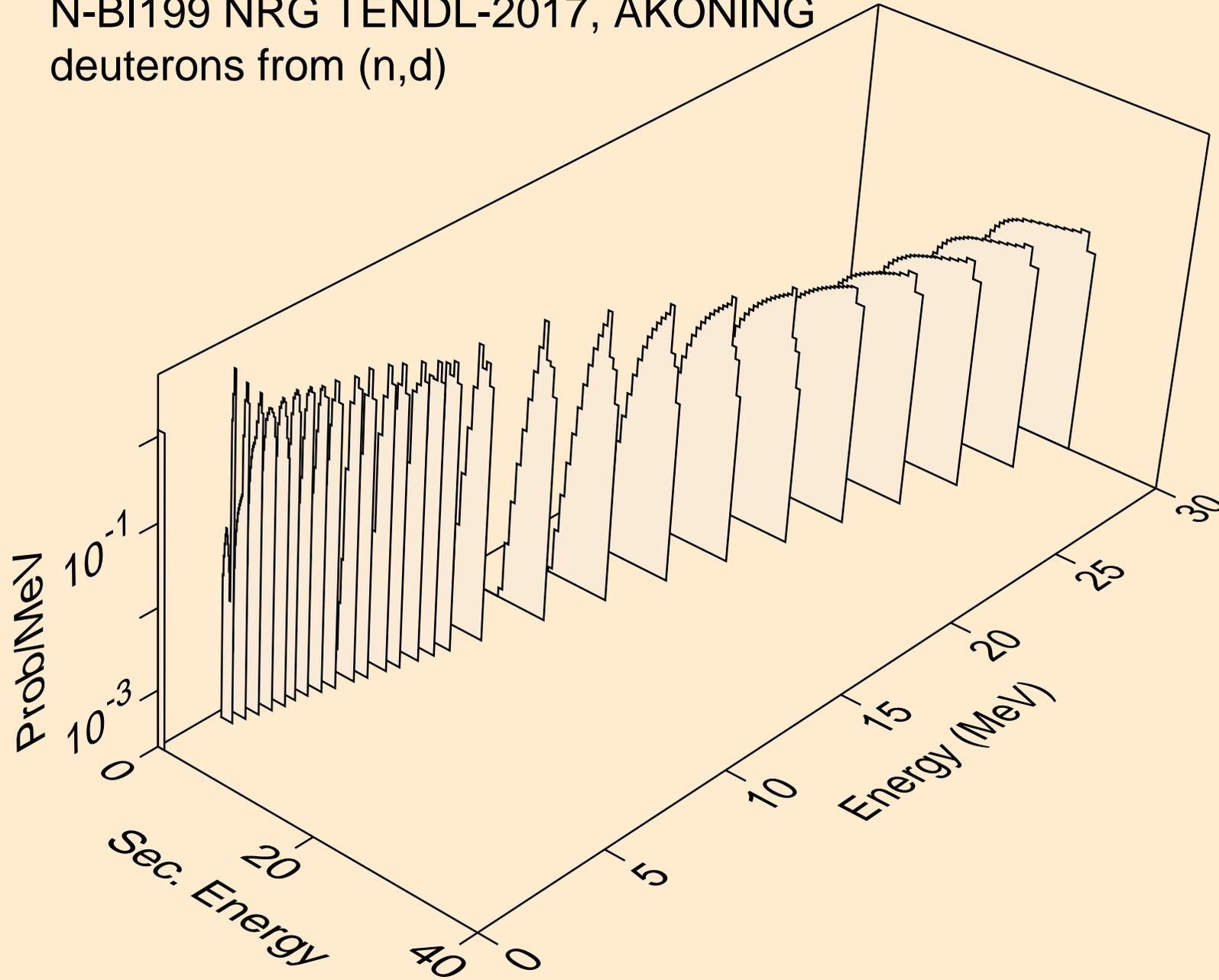
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deuterons from (n,2nd)



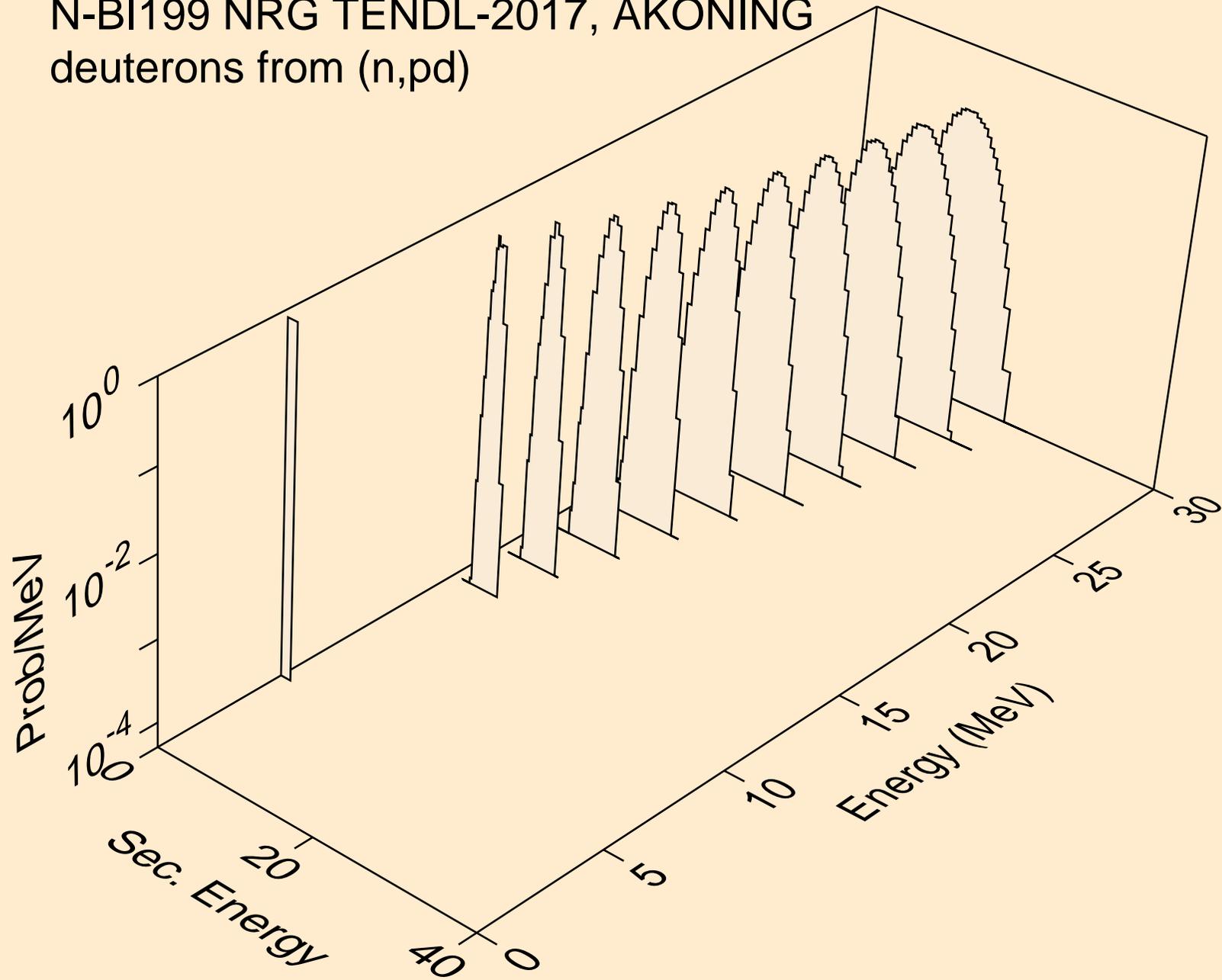
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deuterons from (n,n\*)d



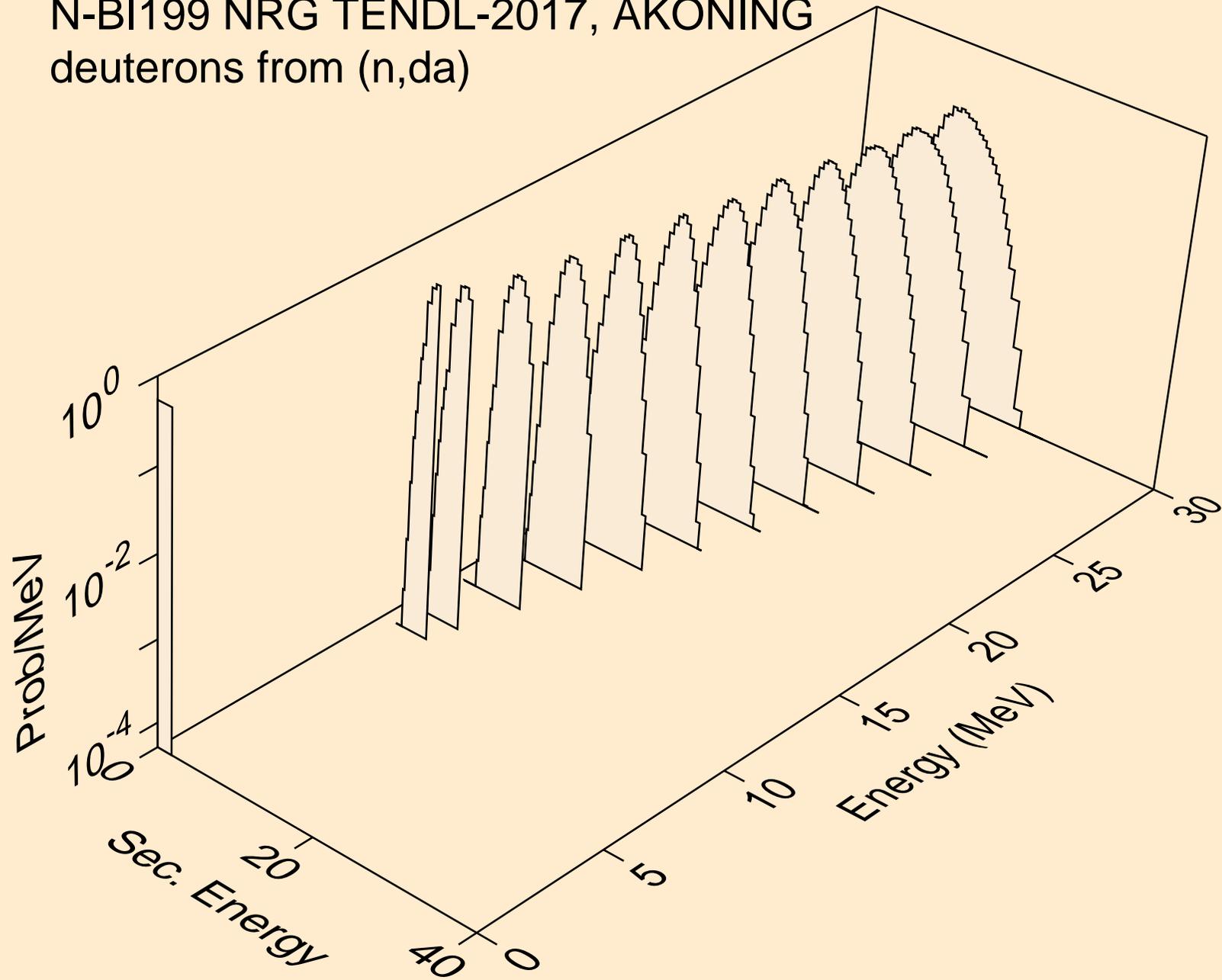
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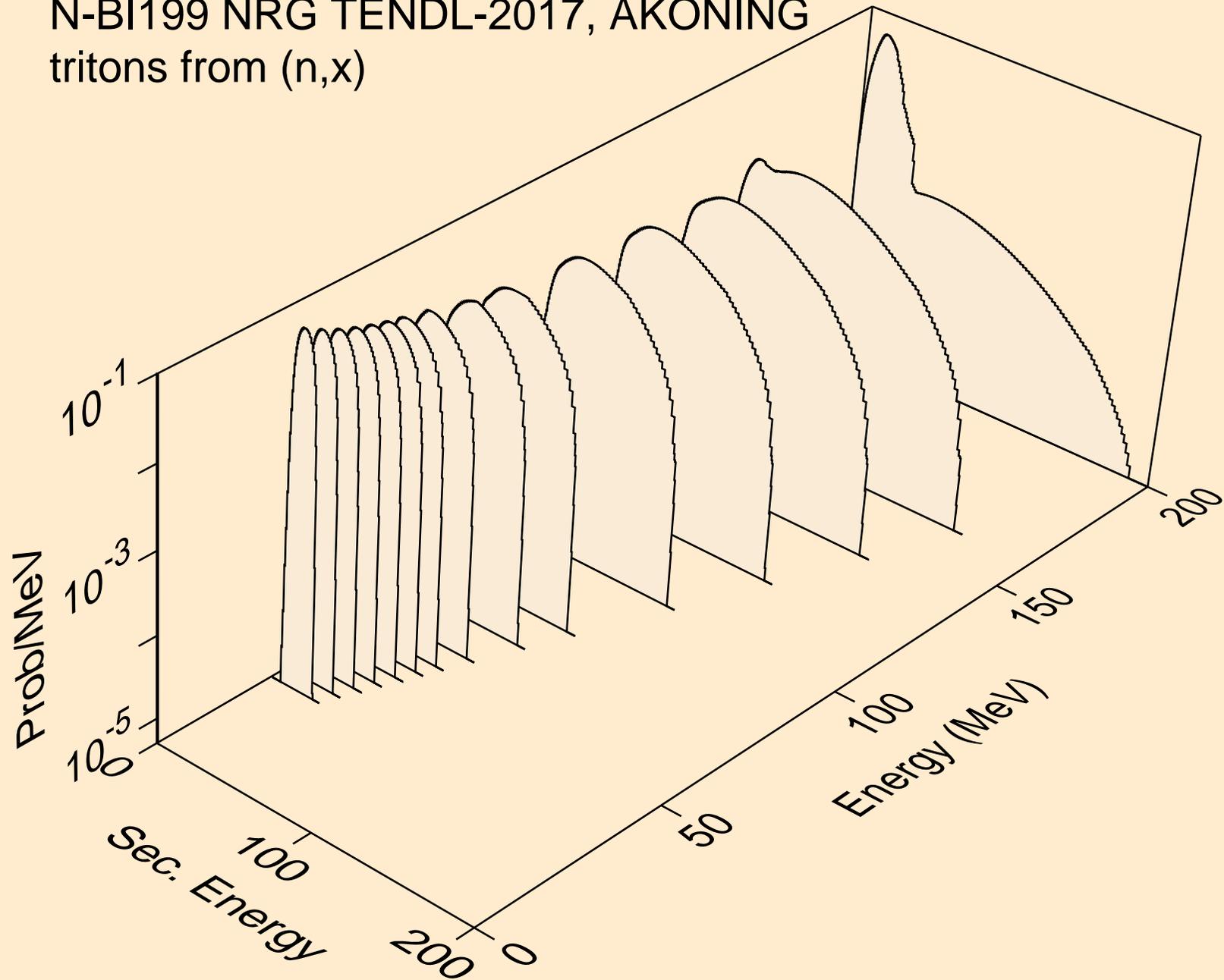
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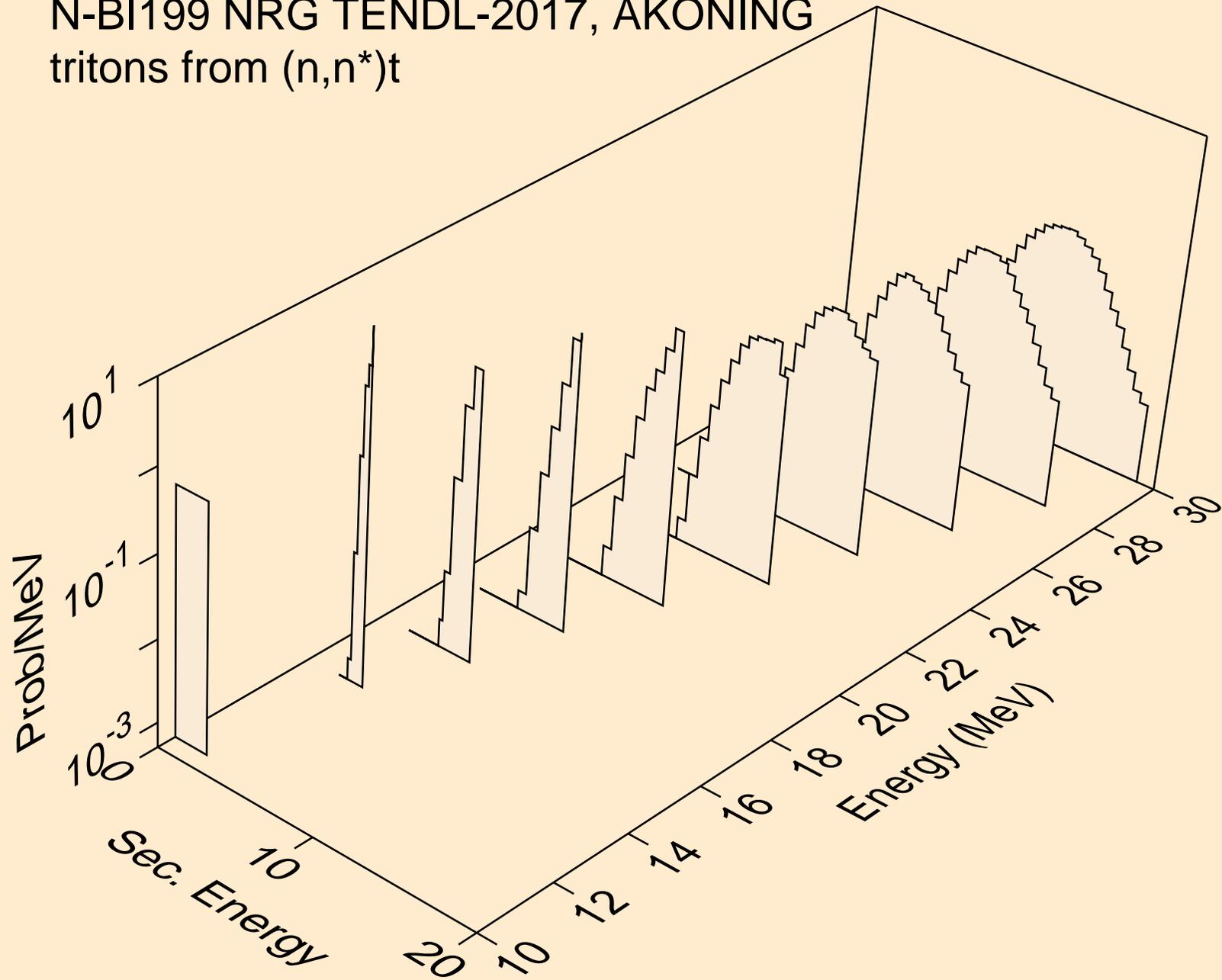
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deuterons from (n,da)



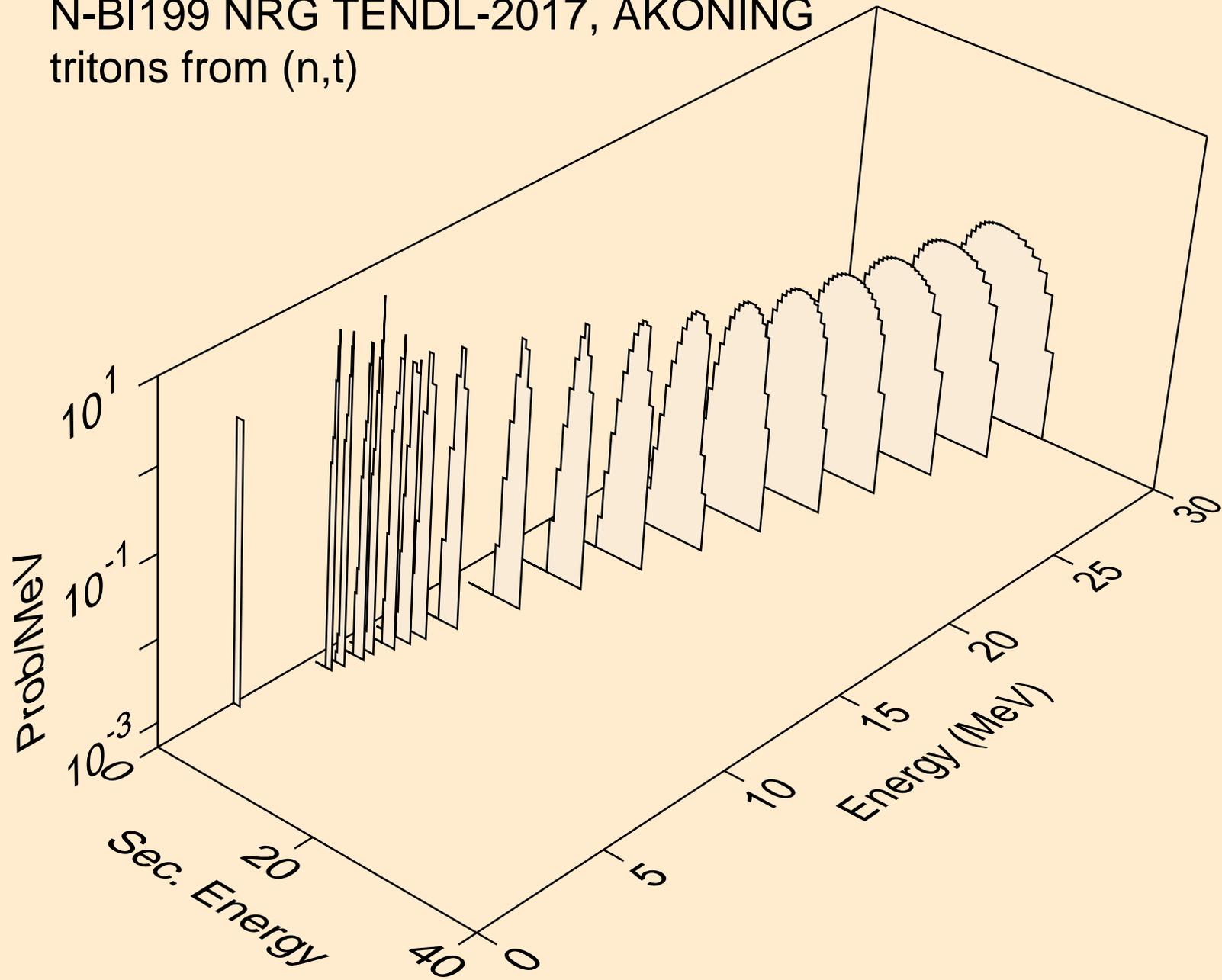
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tritons from (n,x)



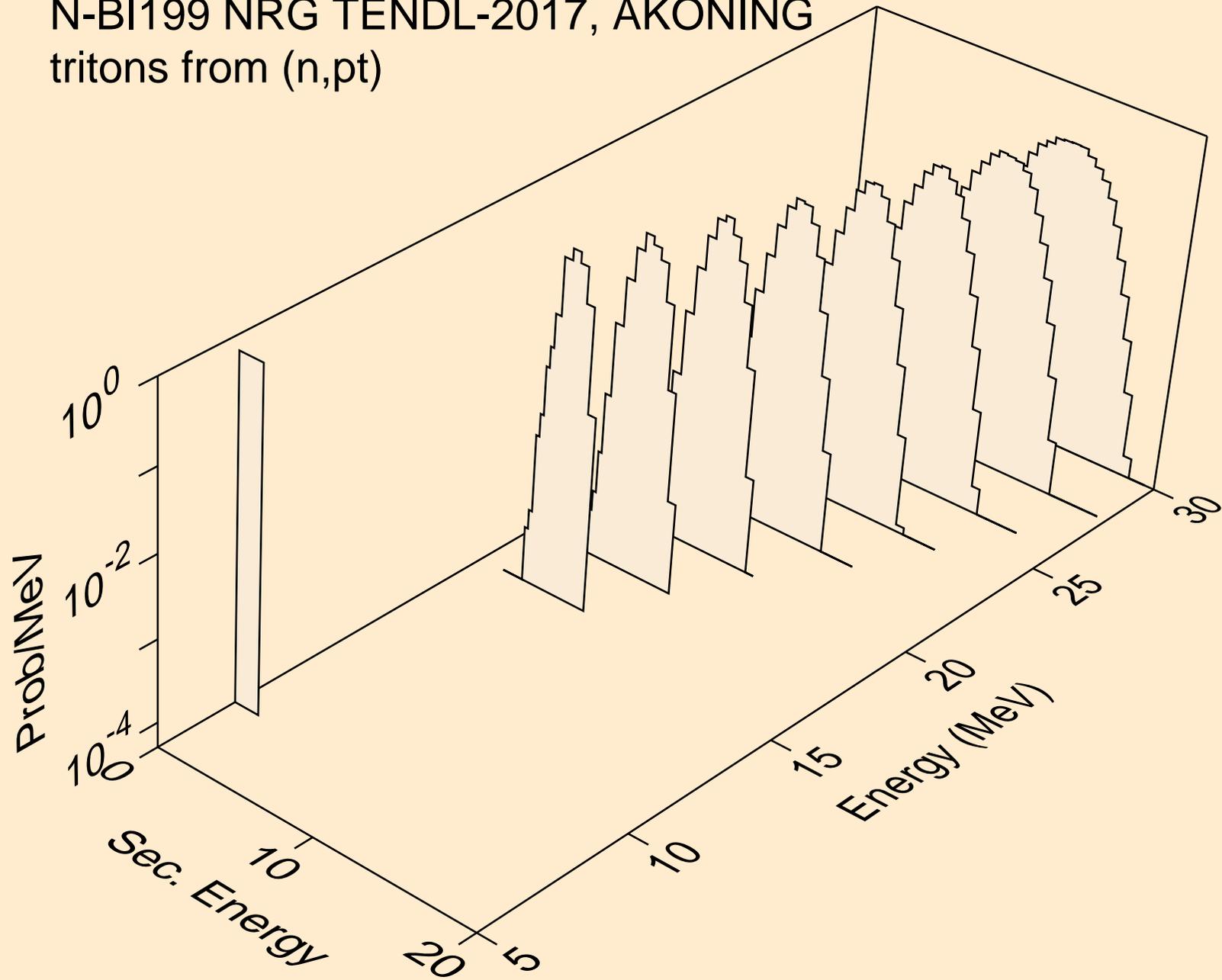
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tritons from (n,n\*)t



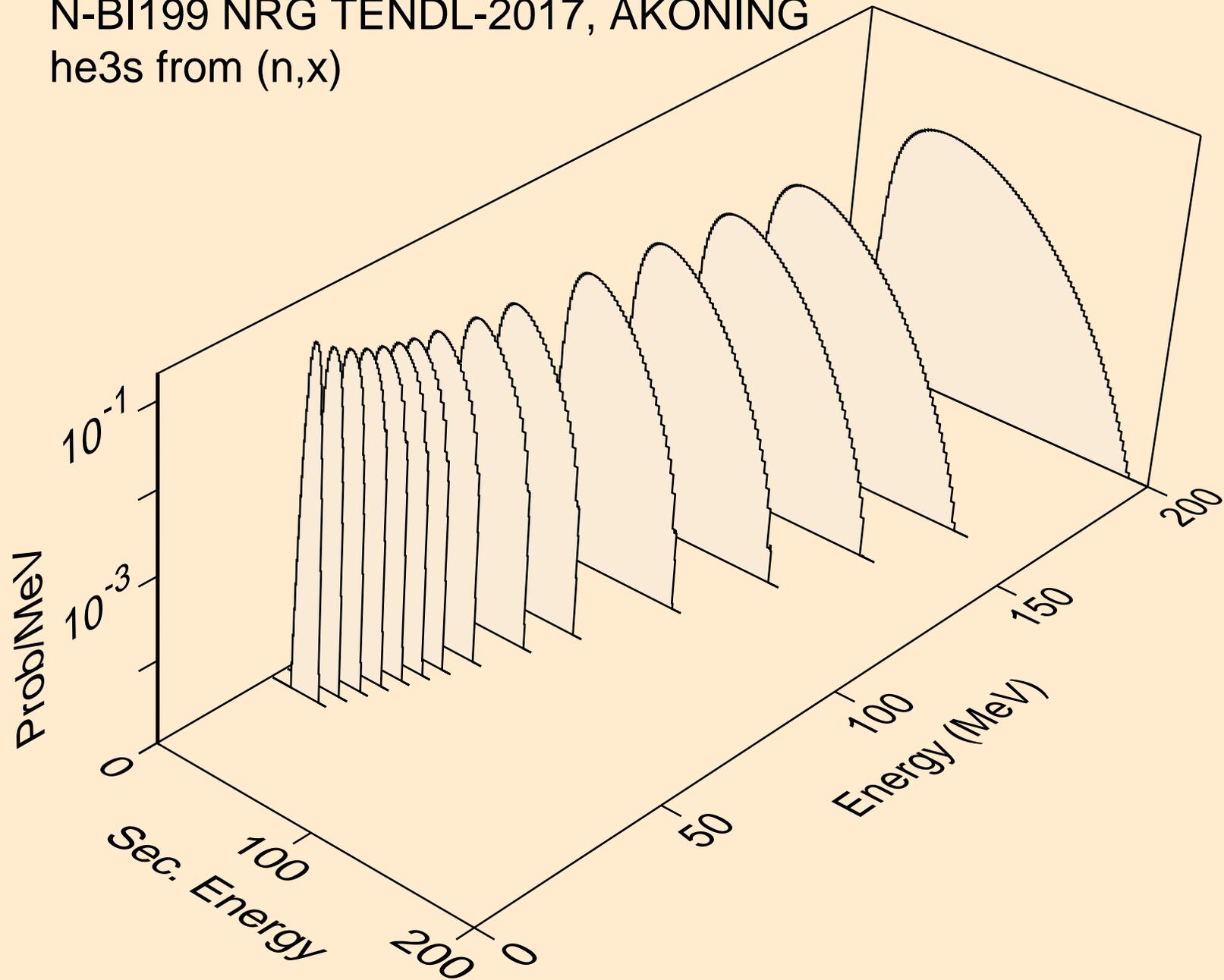
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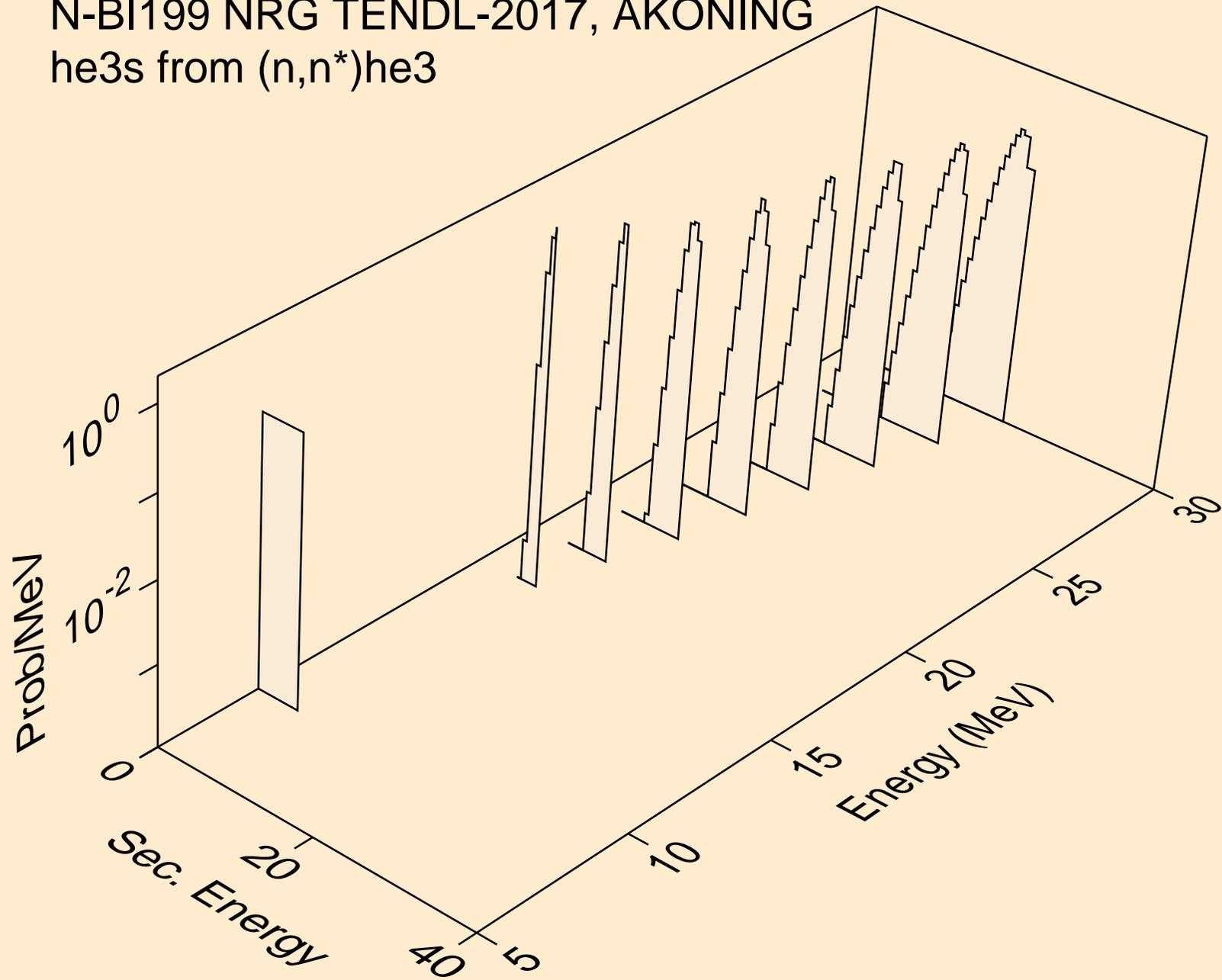
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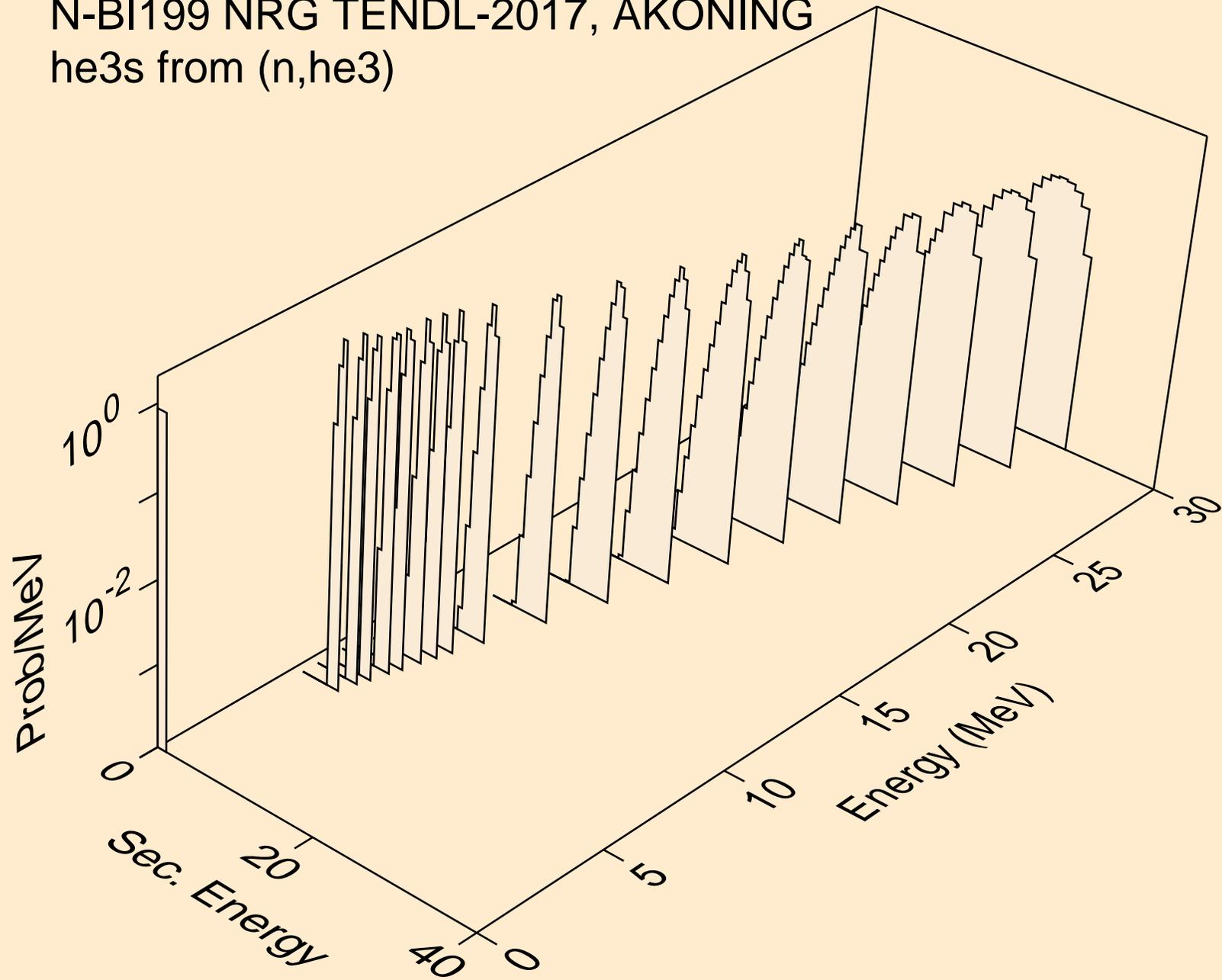
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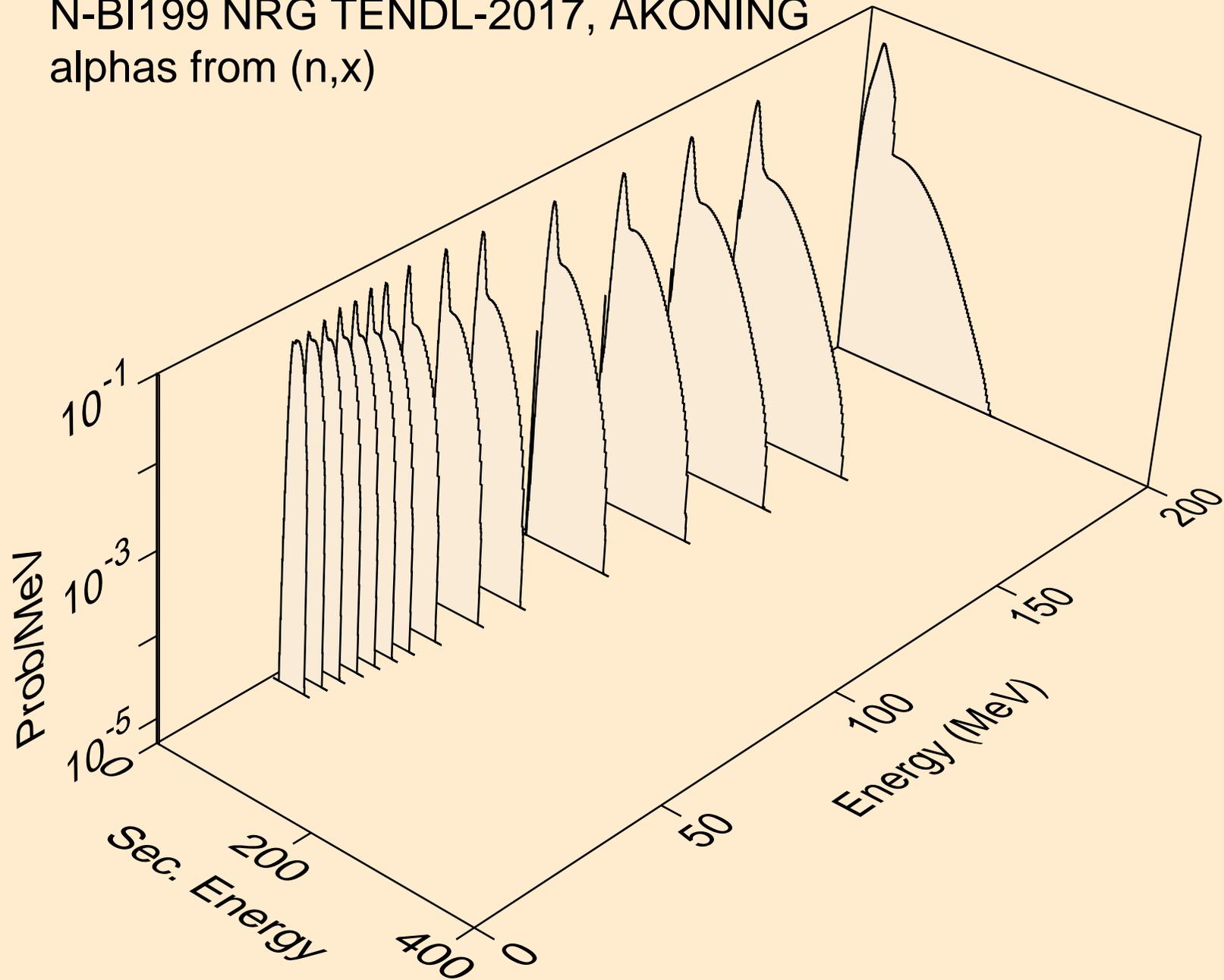
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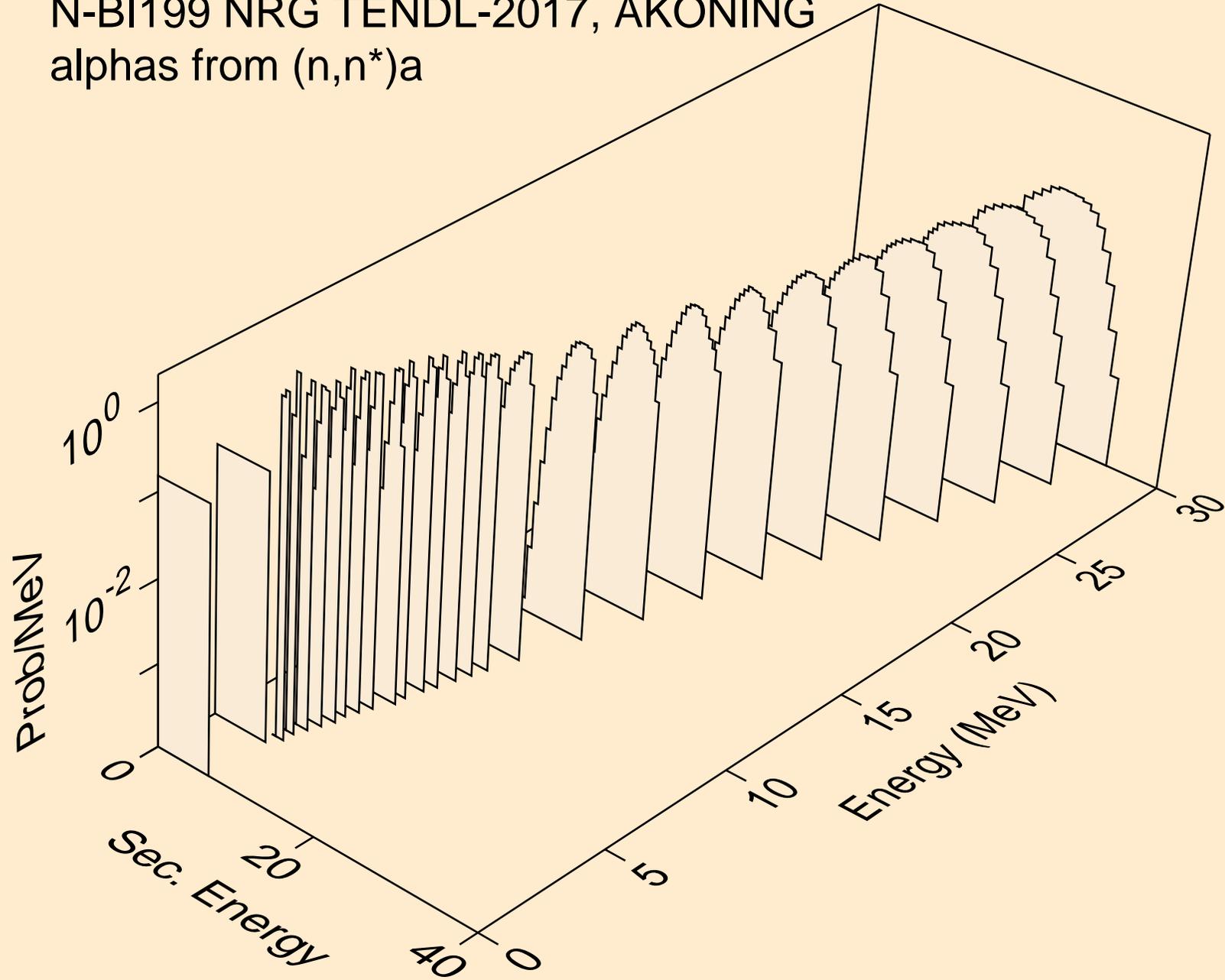
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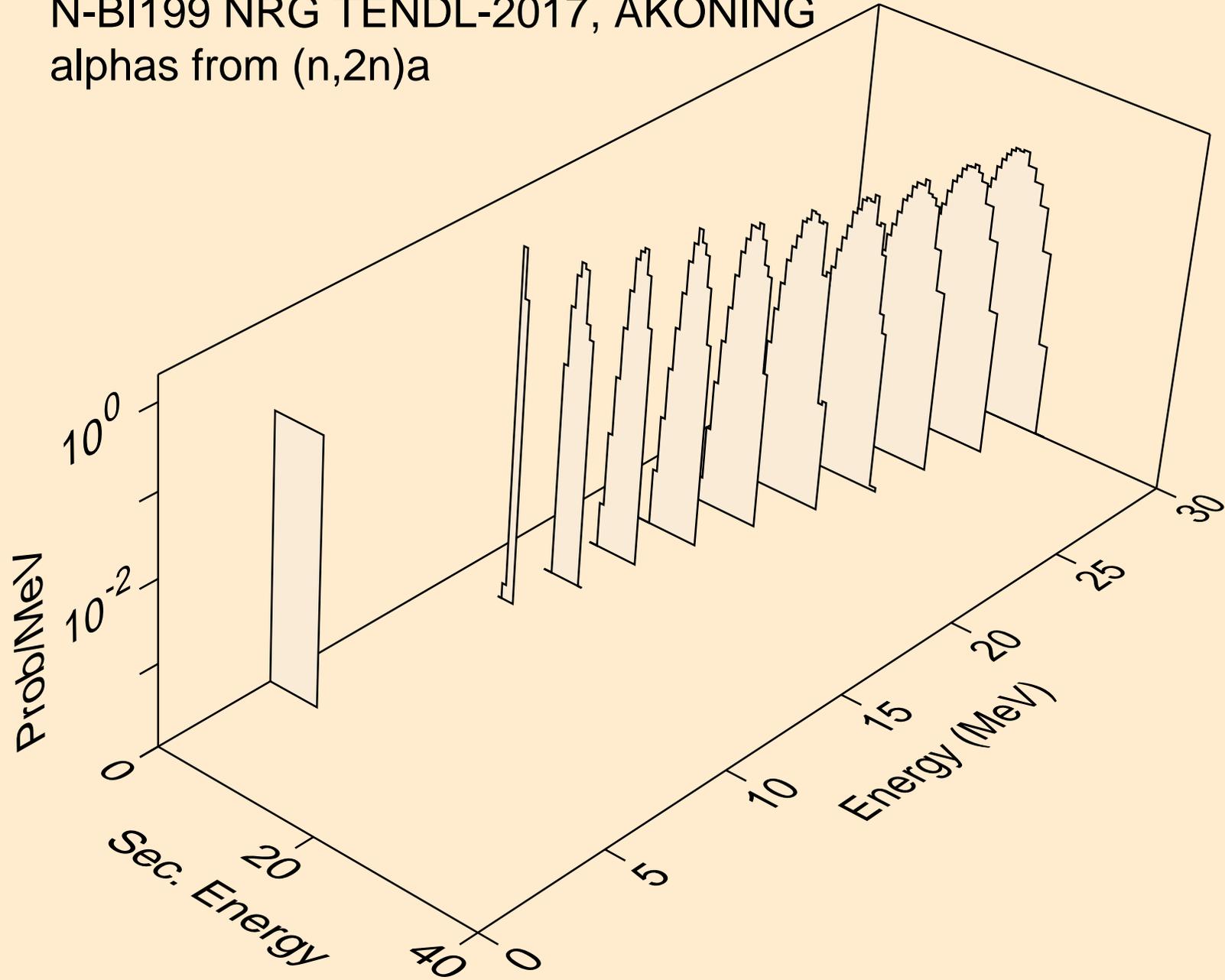
N-BI199 NRG TENDL-2017, AKONING  
alphas from (n,x)



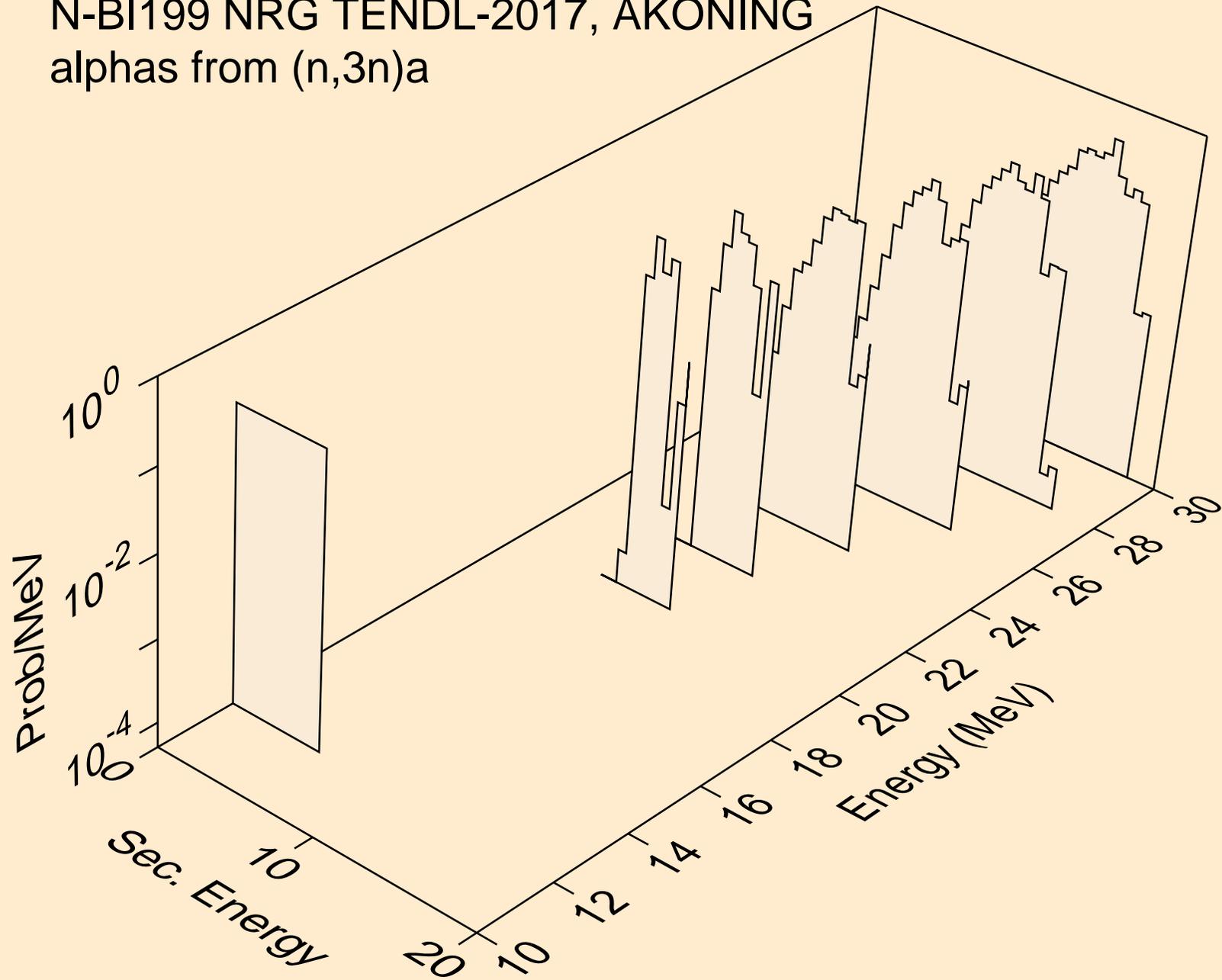
N-BI199 NRG TENDL-2017, AKONING  
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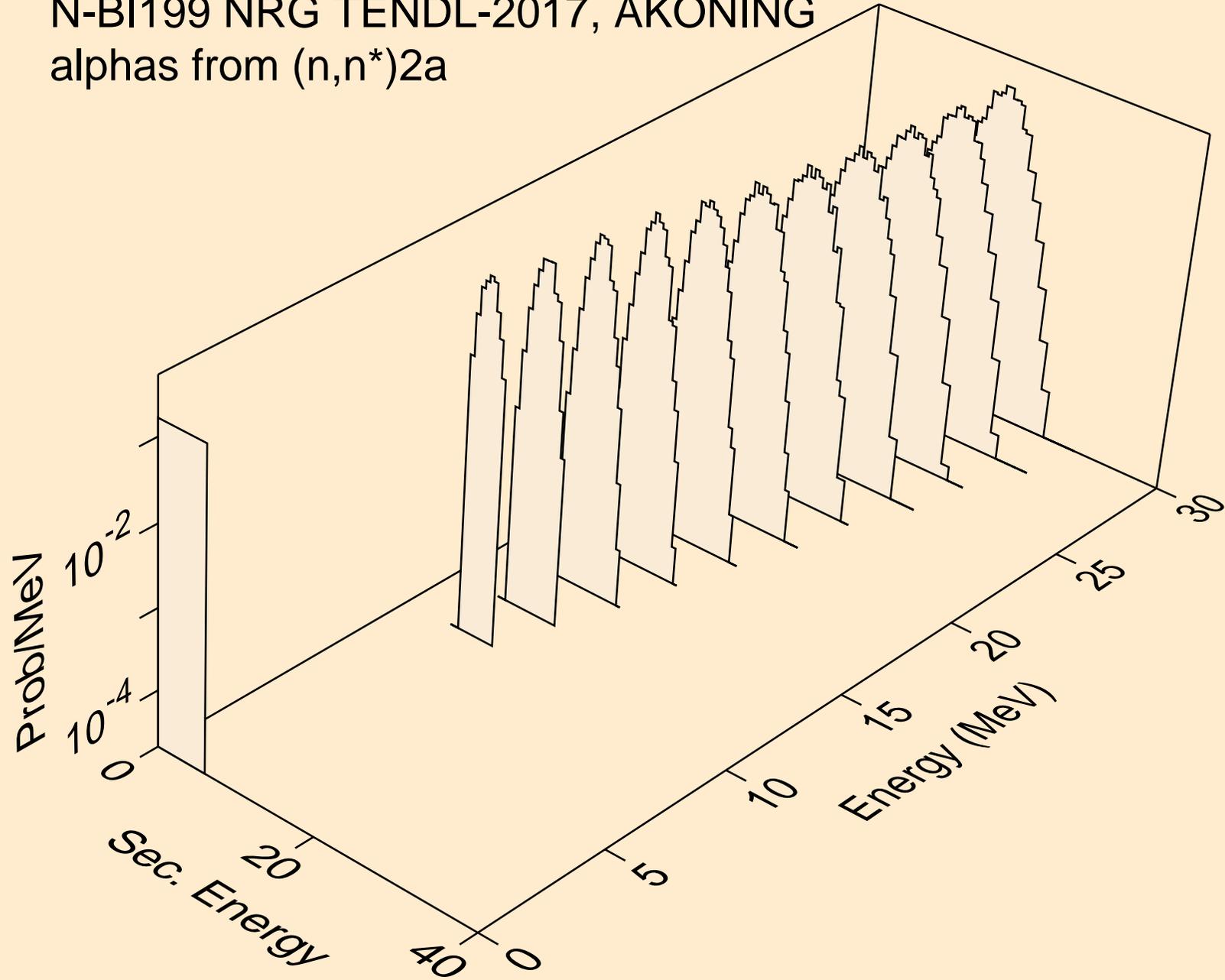
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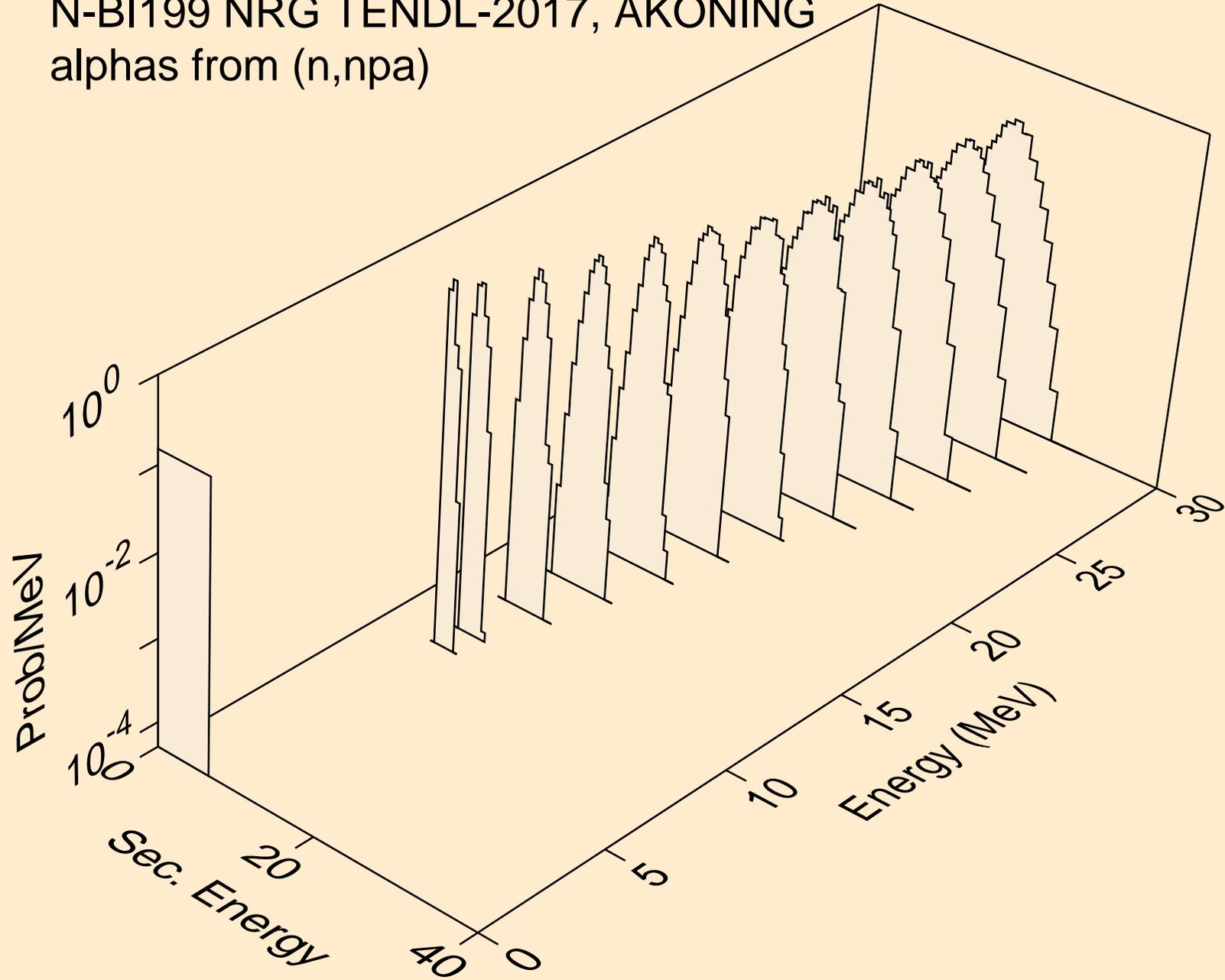
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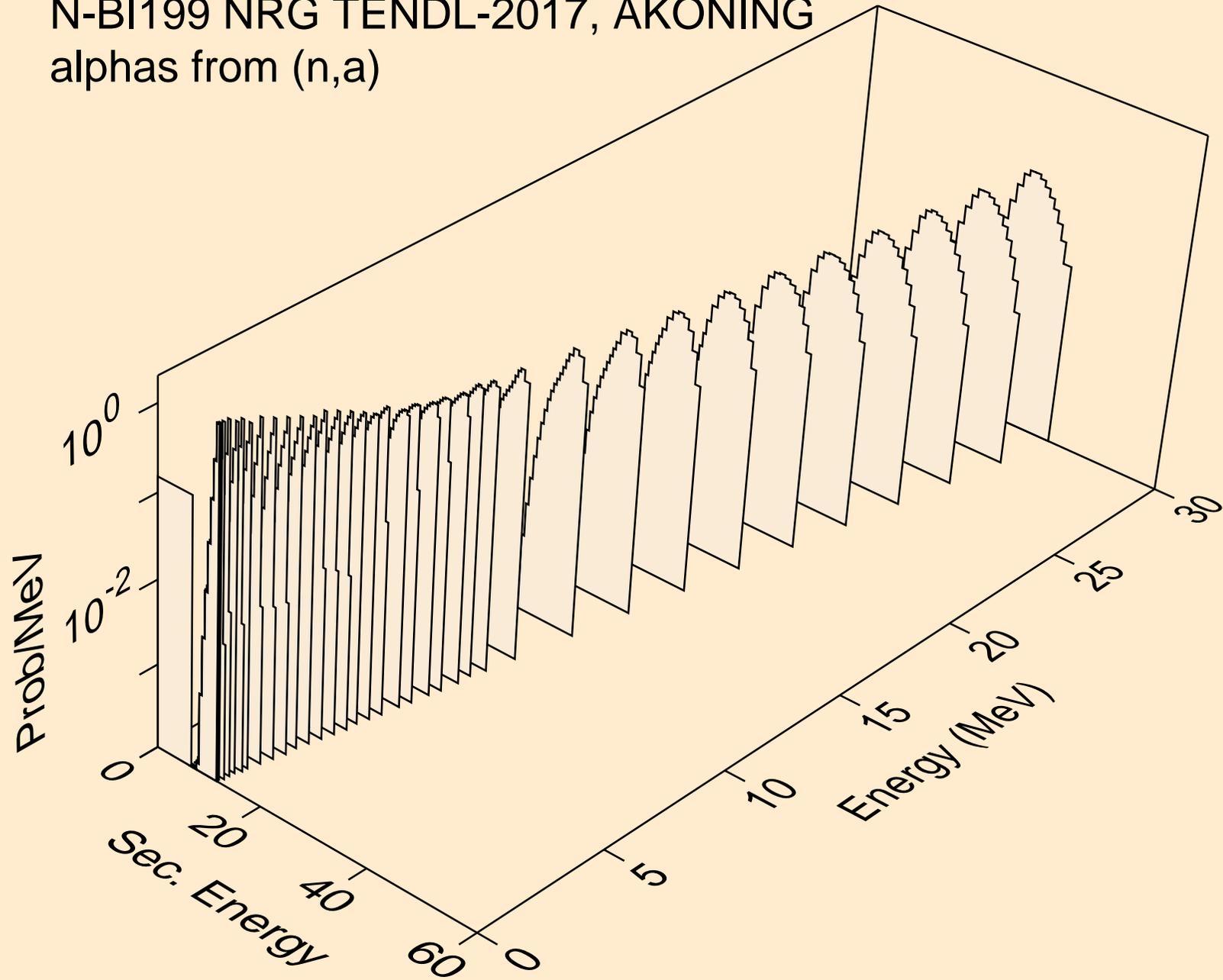
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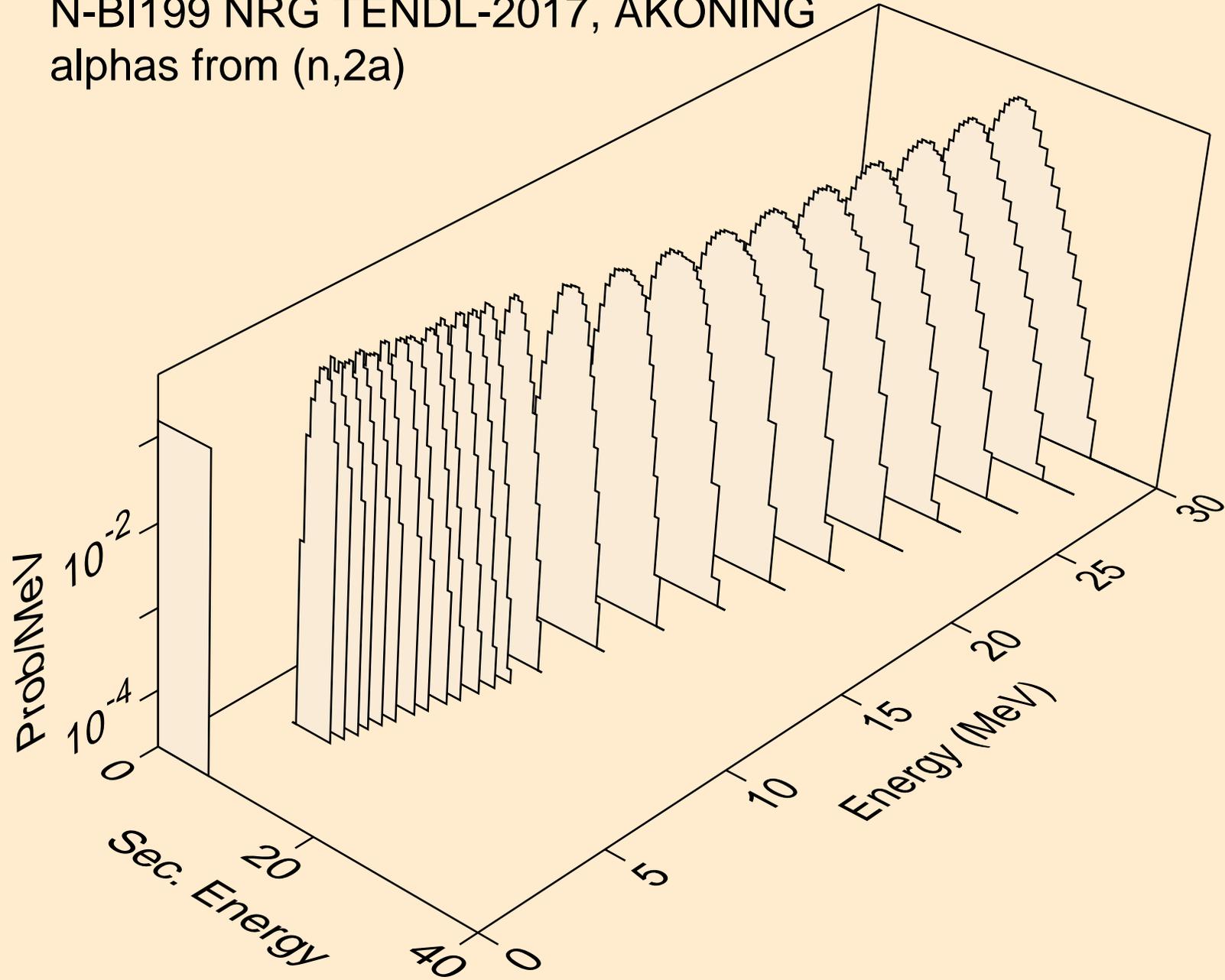
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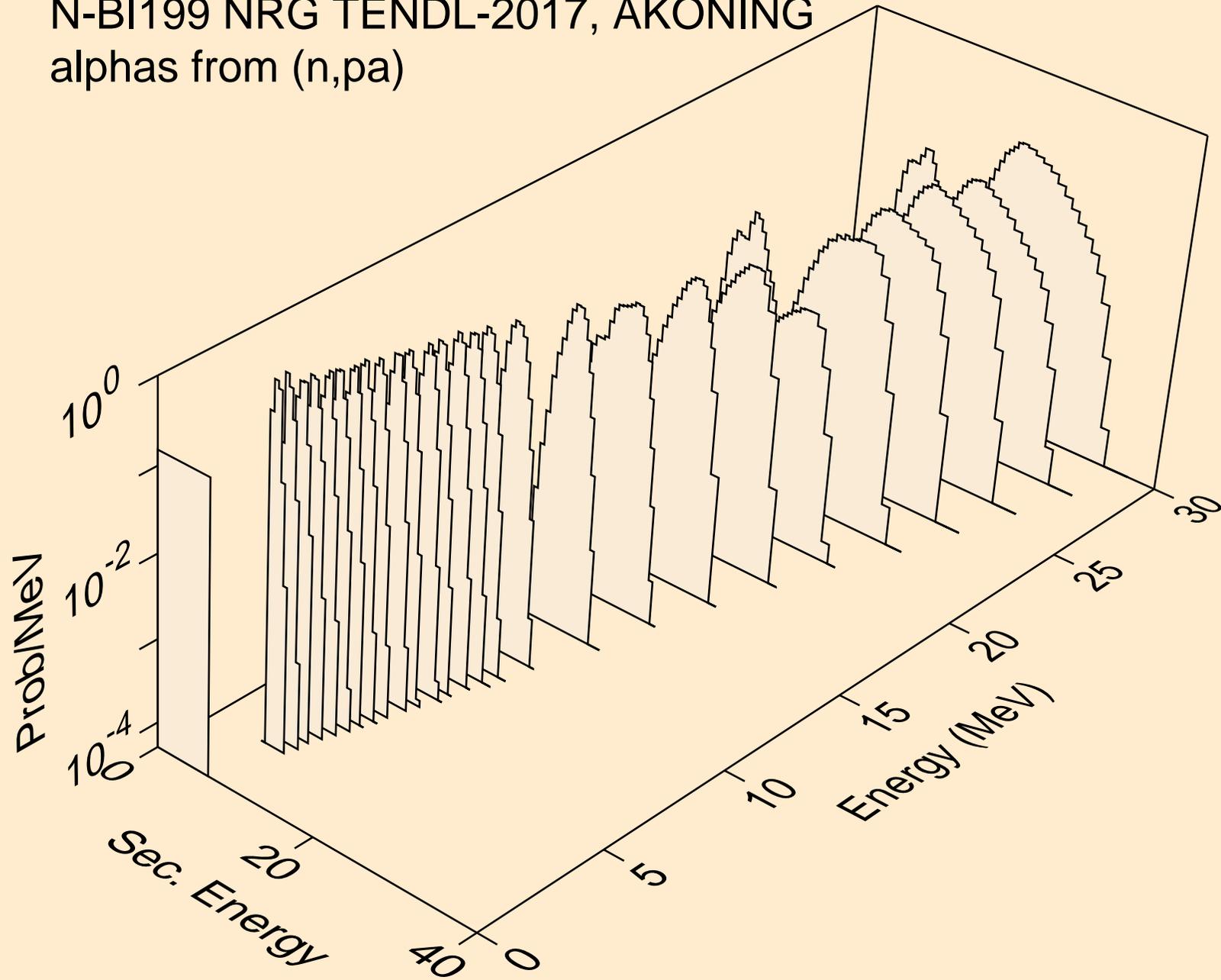
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alphas from (n,a)



N-BI199 NRG TENDL-2017, AKONING  
alphas from (n,2a)



N-BI199 NRG TENDL-2017, AKONING  
alphas from (n,pa)



N-BI199 NRG TENDL-2017, AKONING  
alphas from (n,da)

