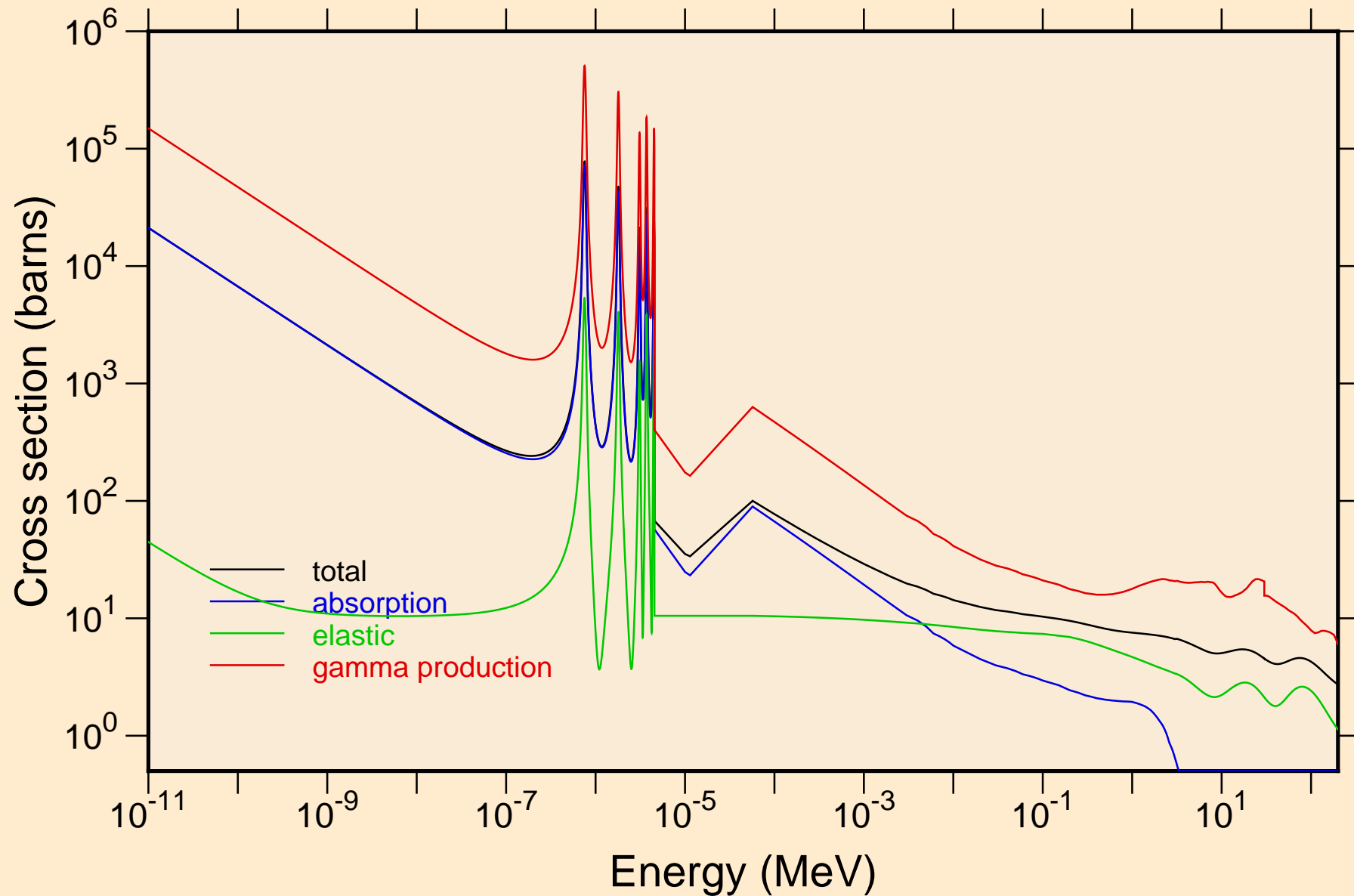
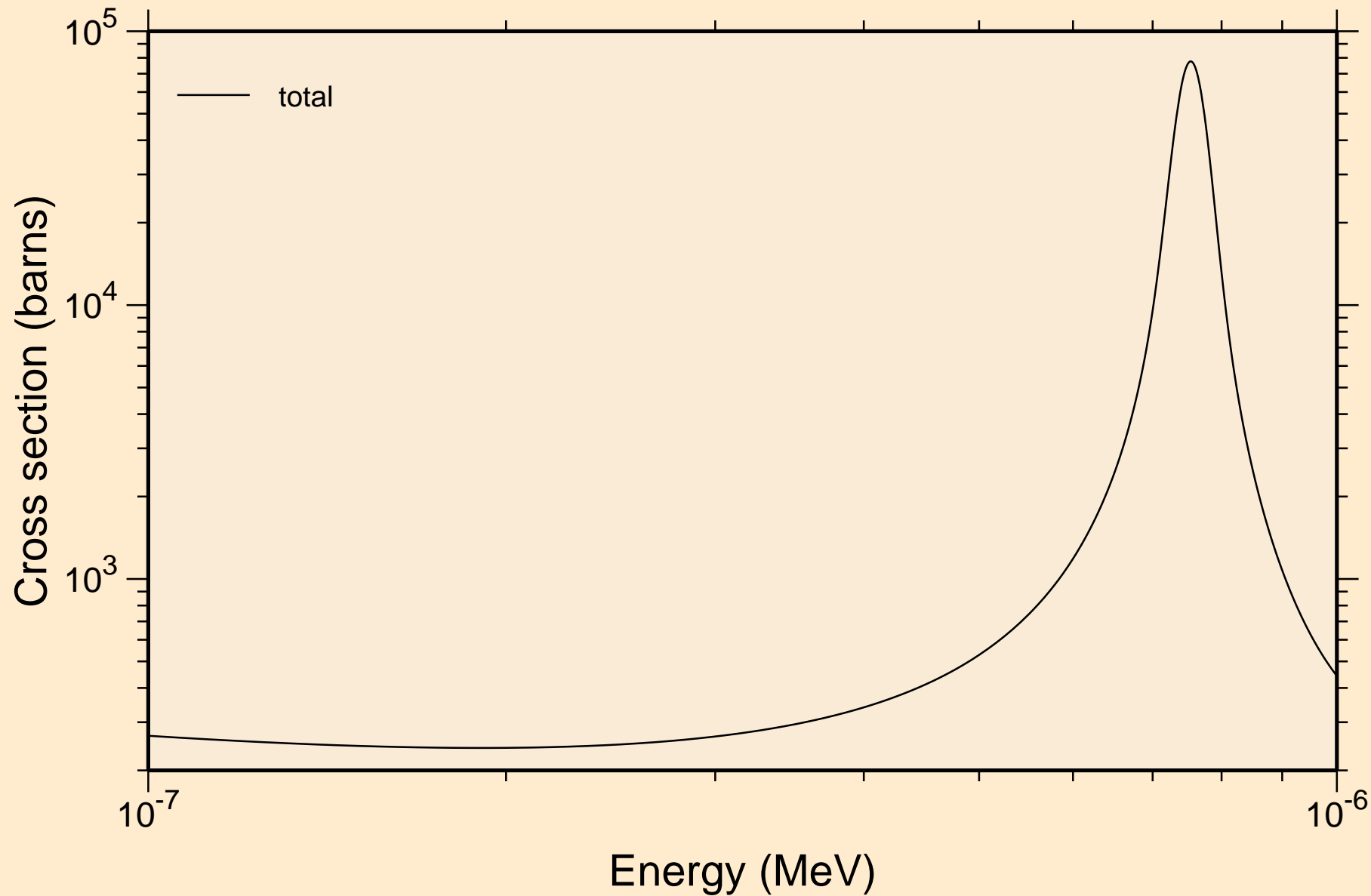


HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

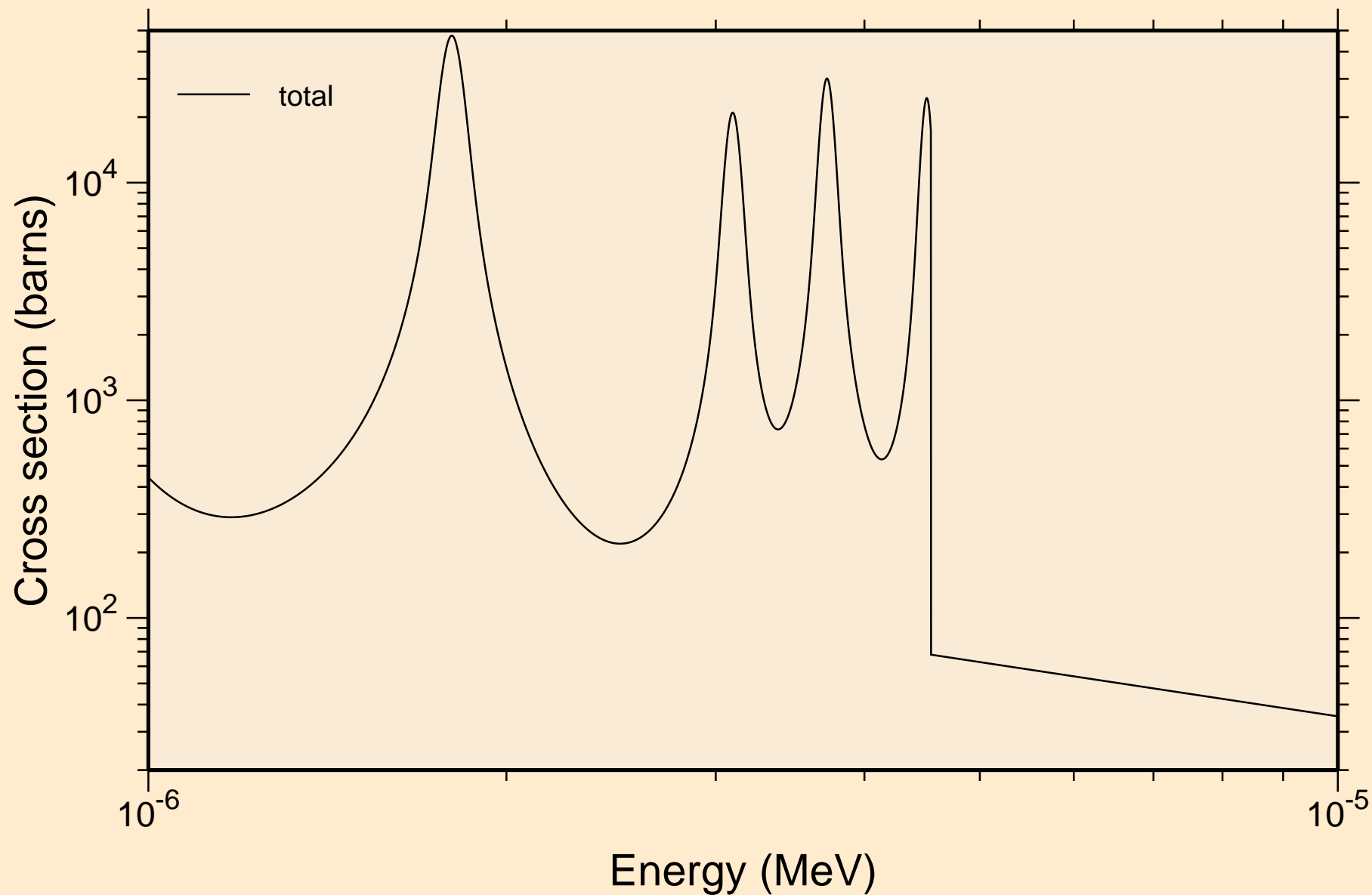
Principal cross sections



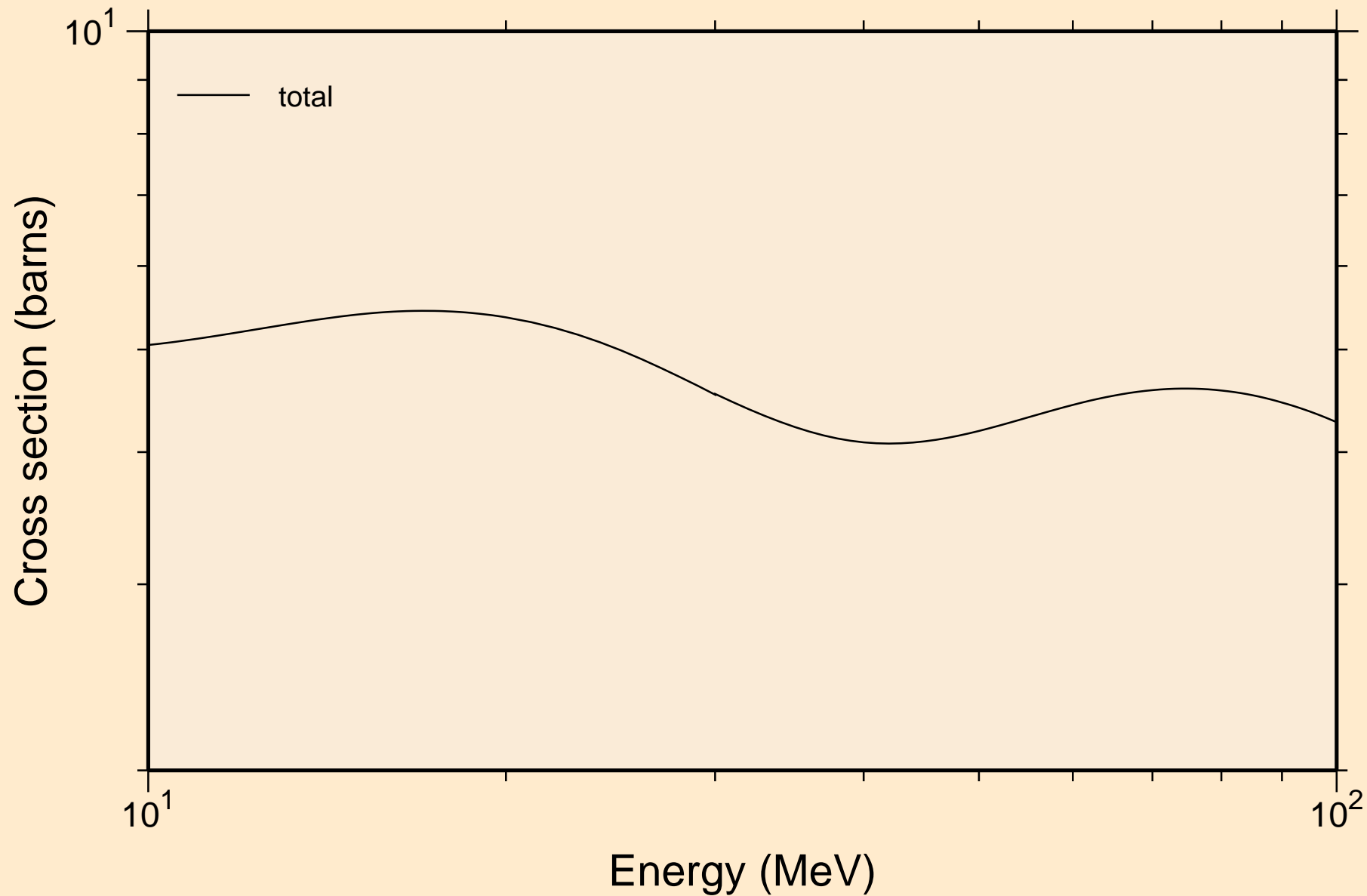
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resonance total cross section



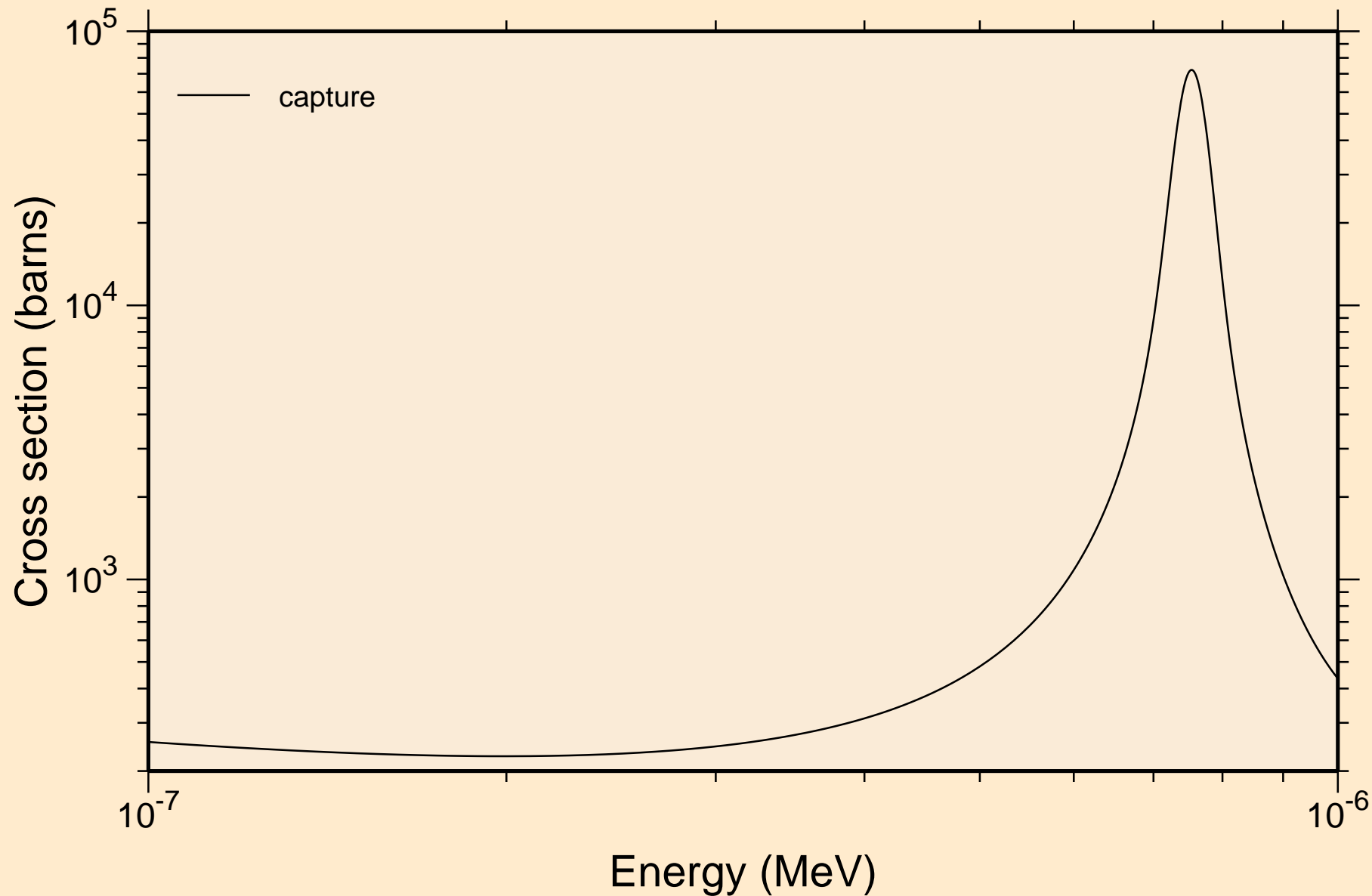
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resonance total cross section



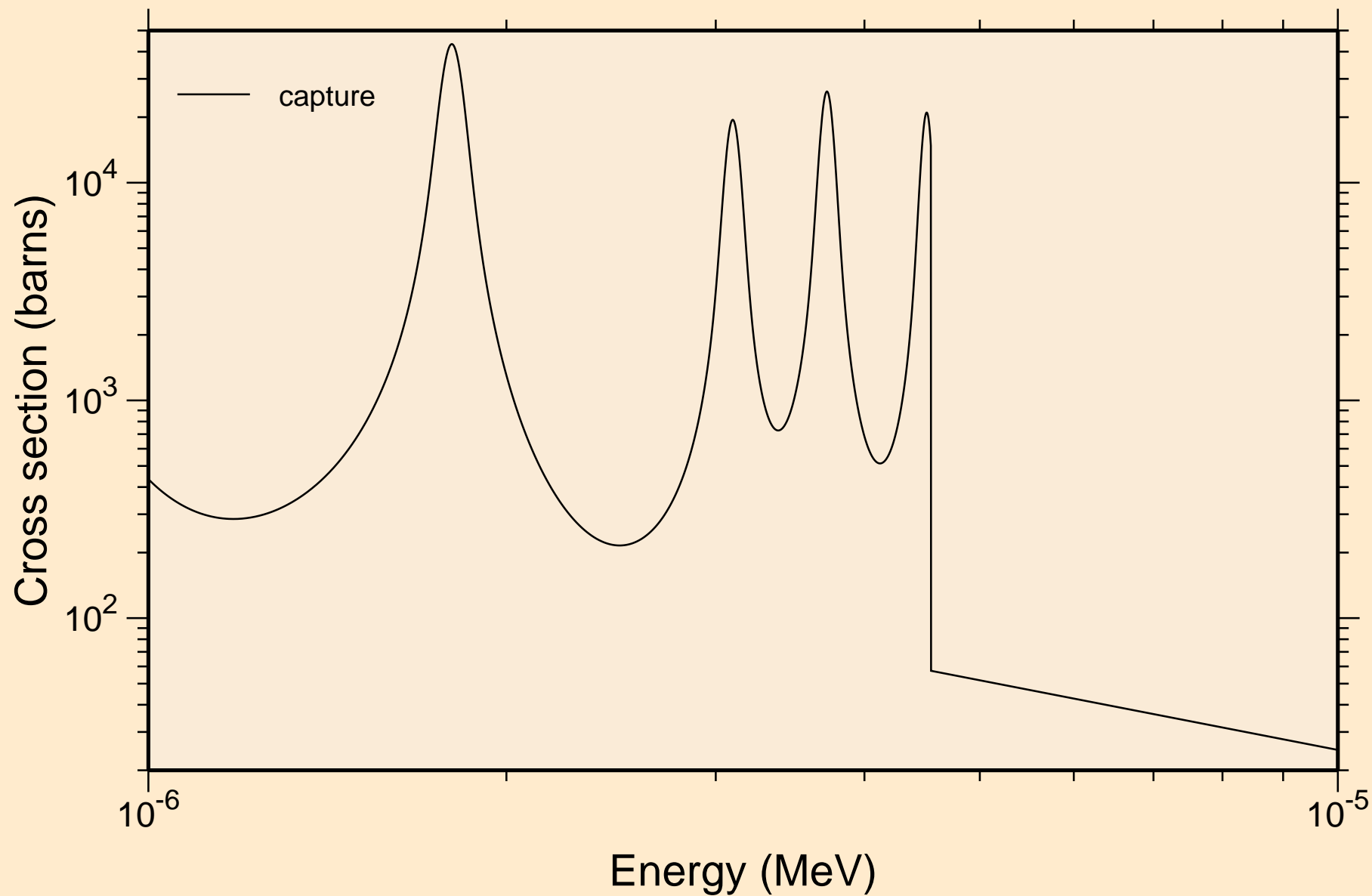
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resonance total cross section



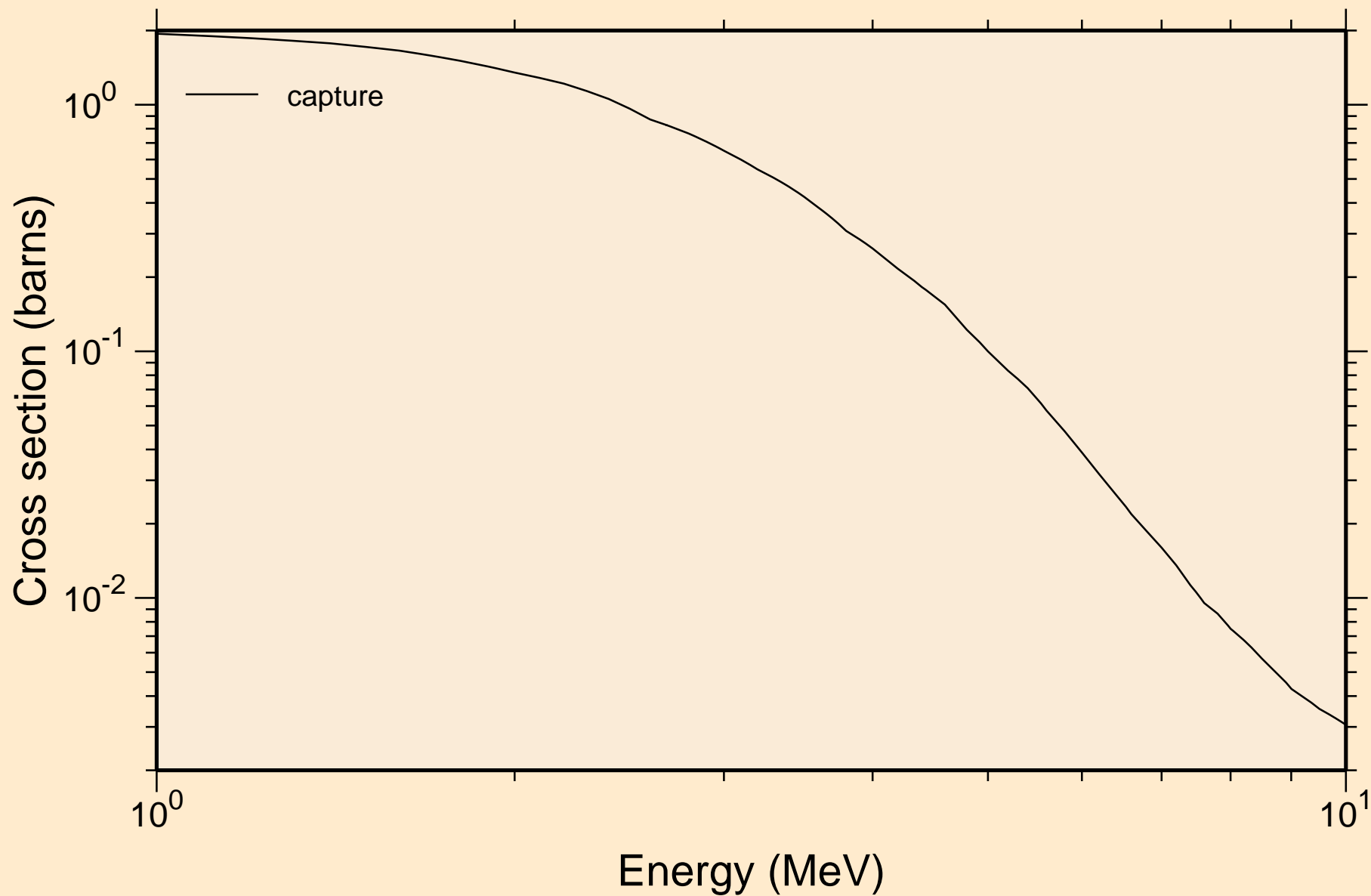
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
resonance absorption cross sections



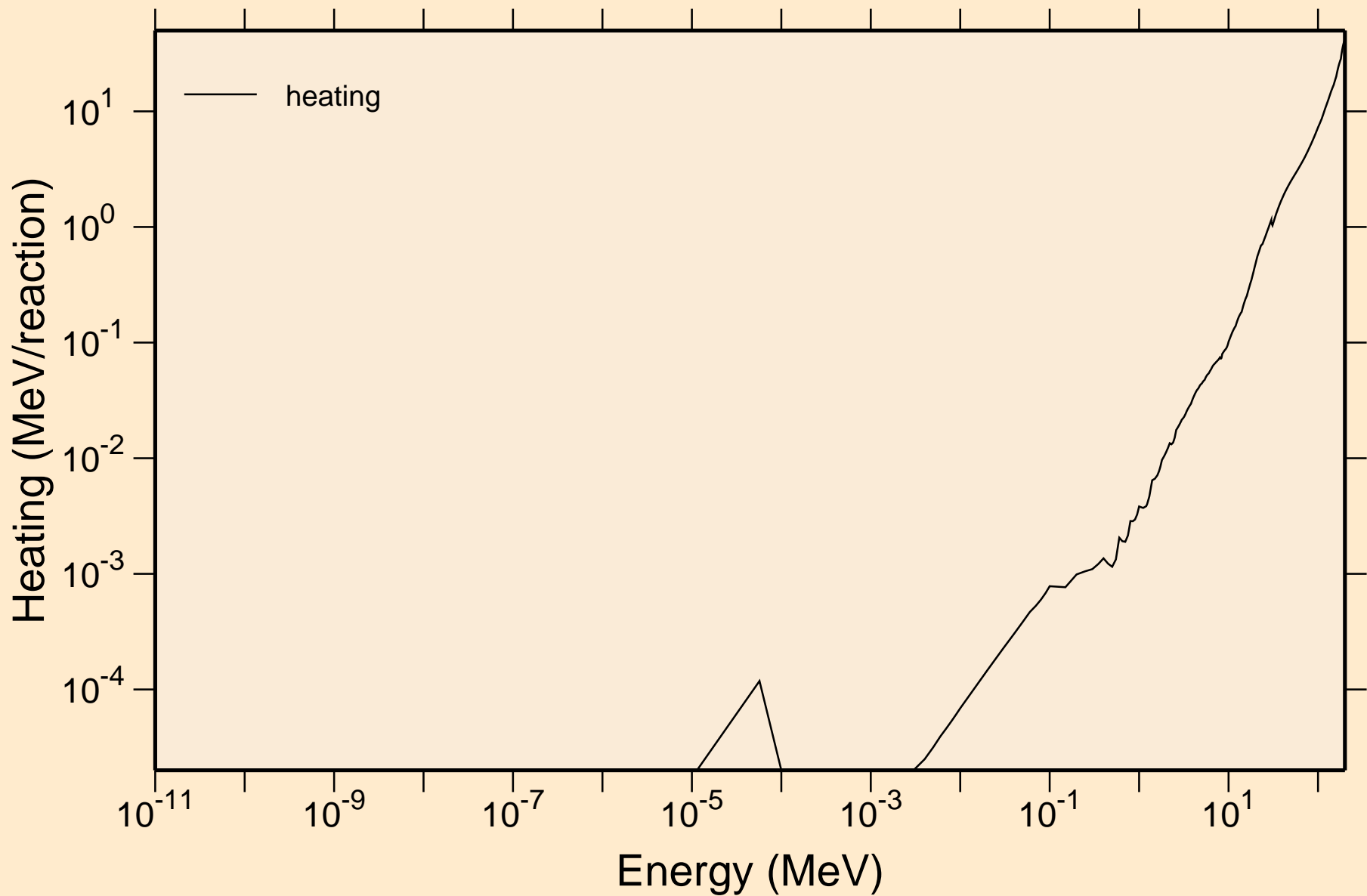
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resonance absorption cross sections



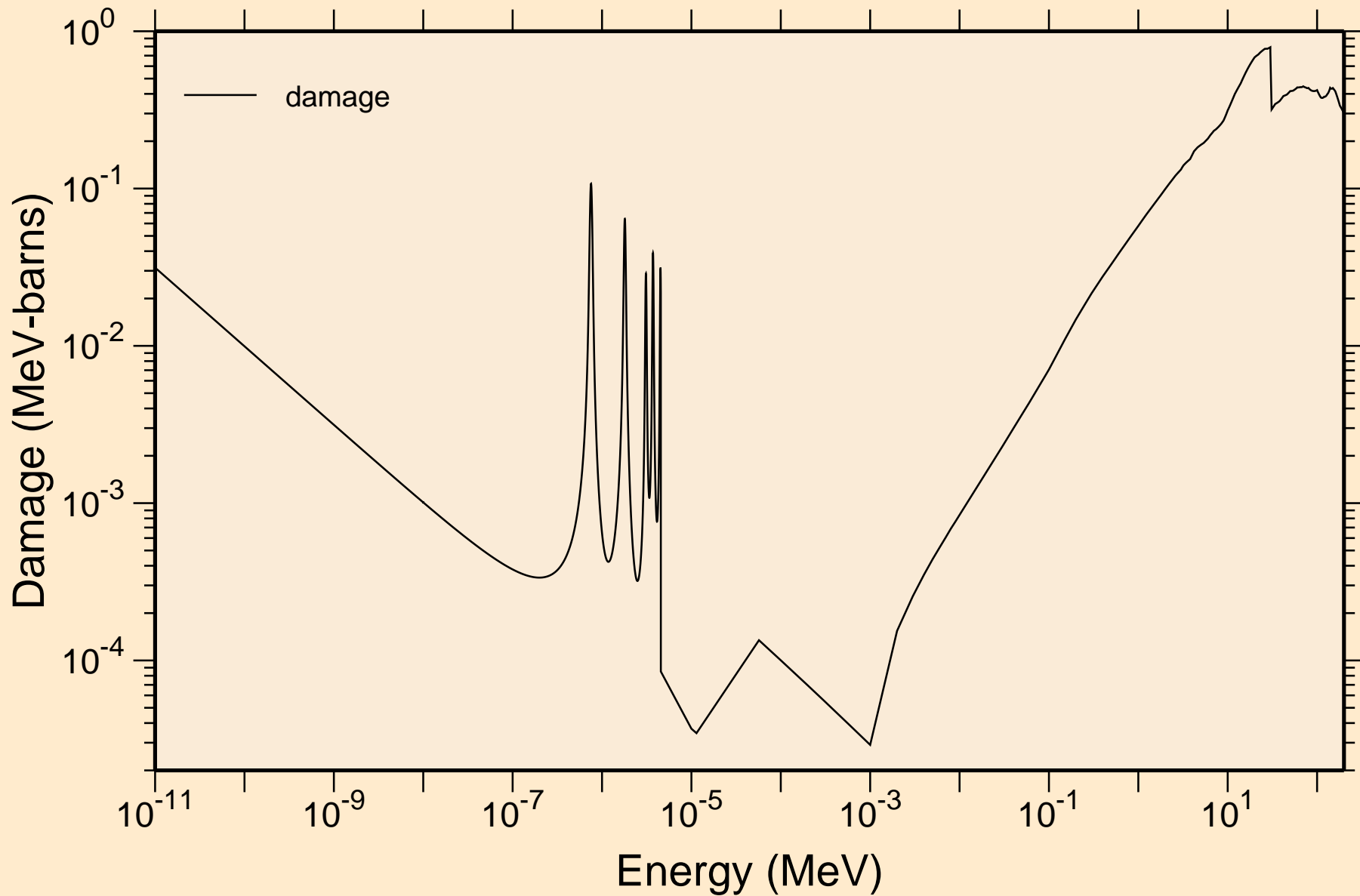
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resonance absorption cross sections



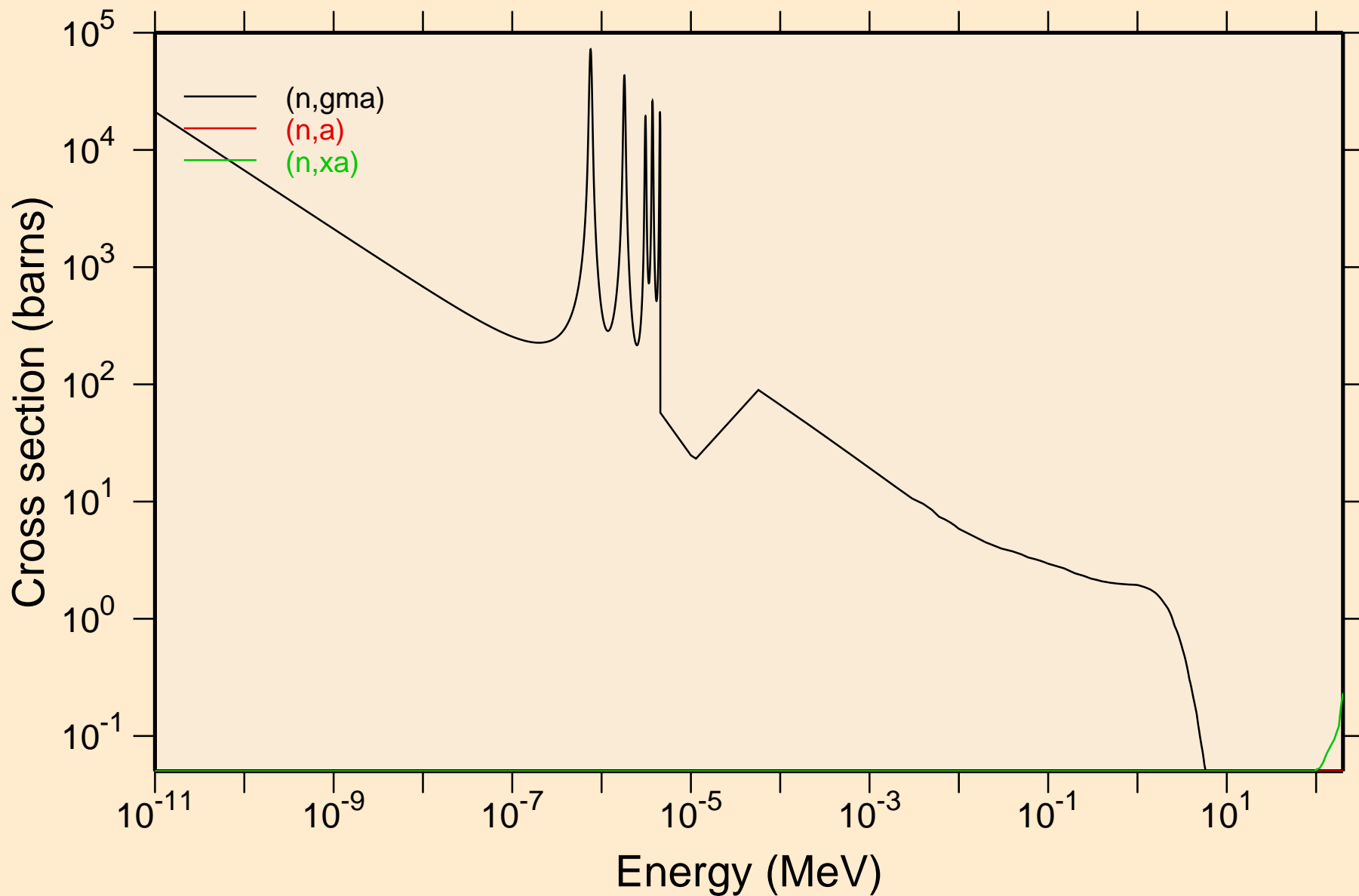
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Heating



HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K Damage

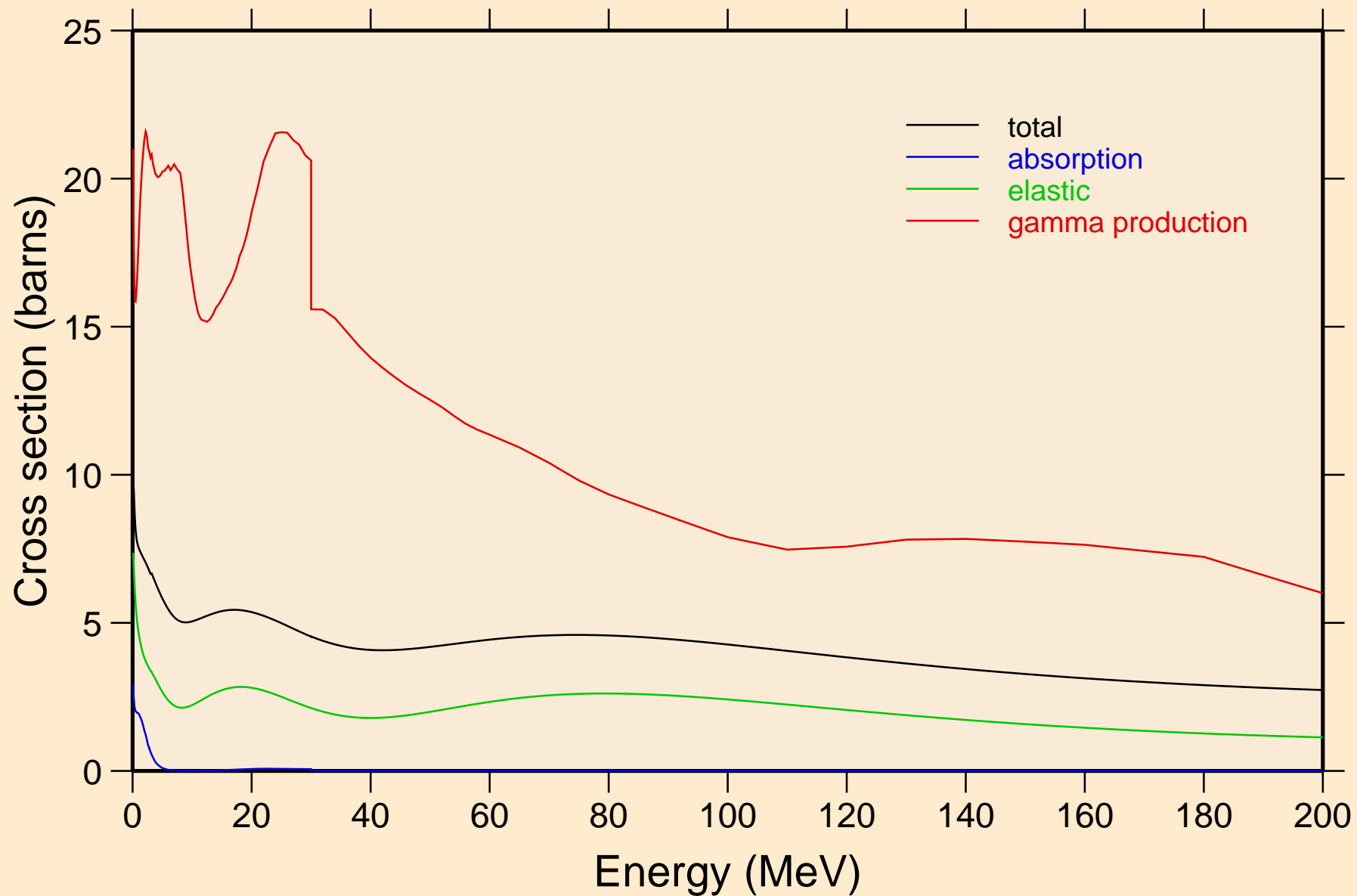


HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Non-threshold reactions

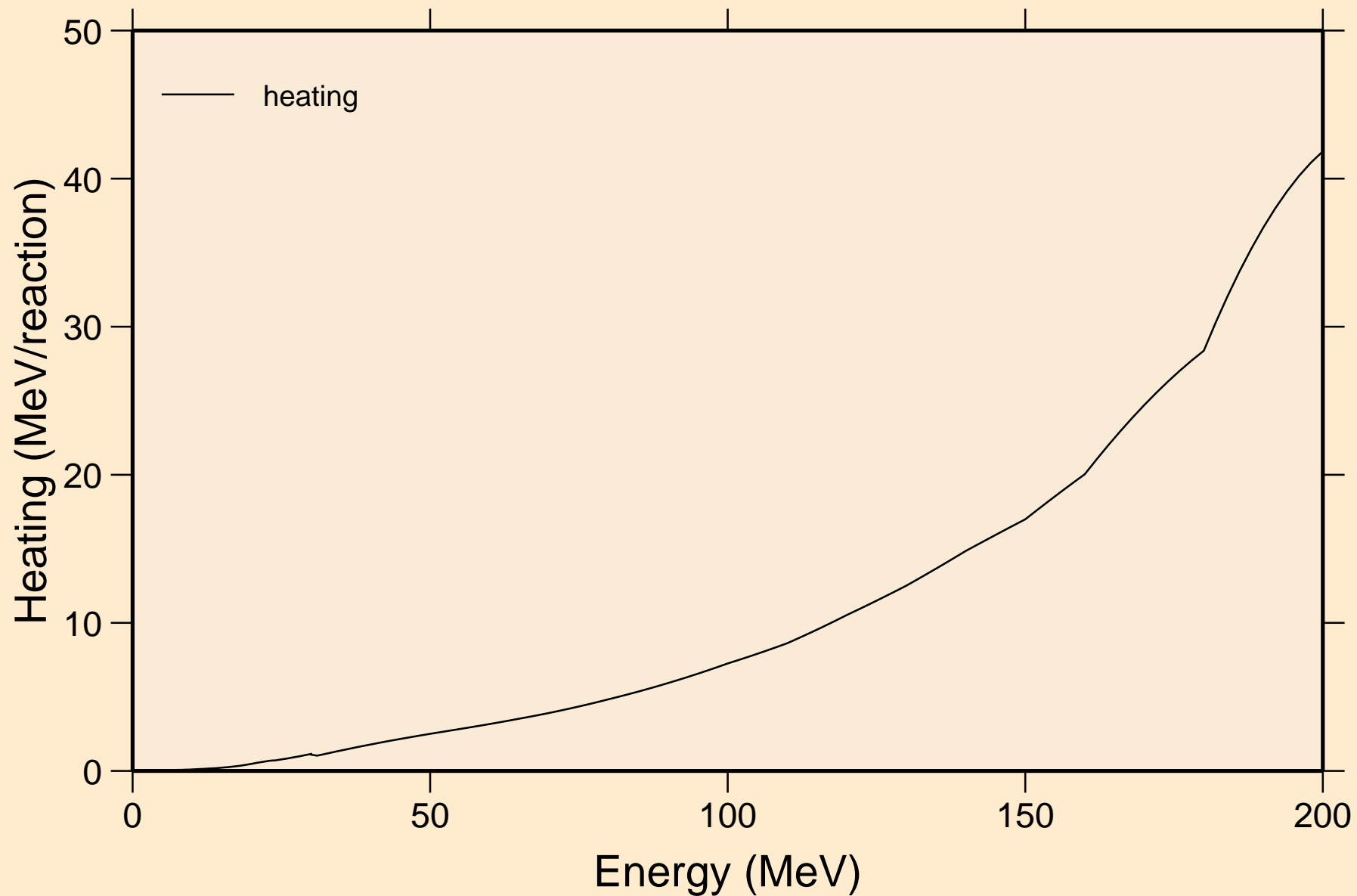


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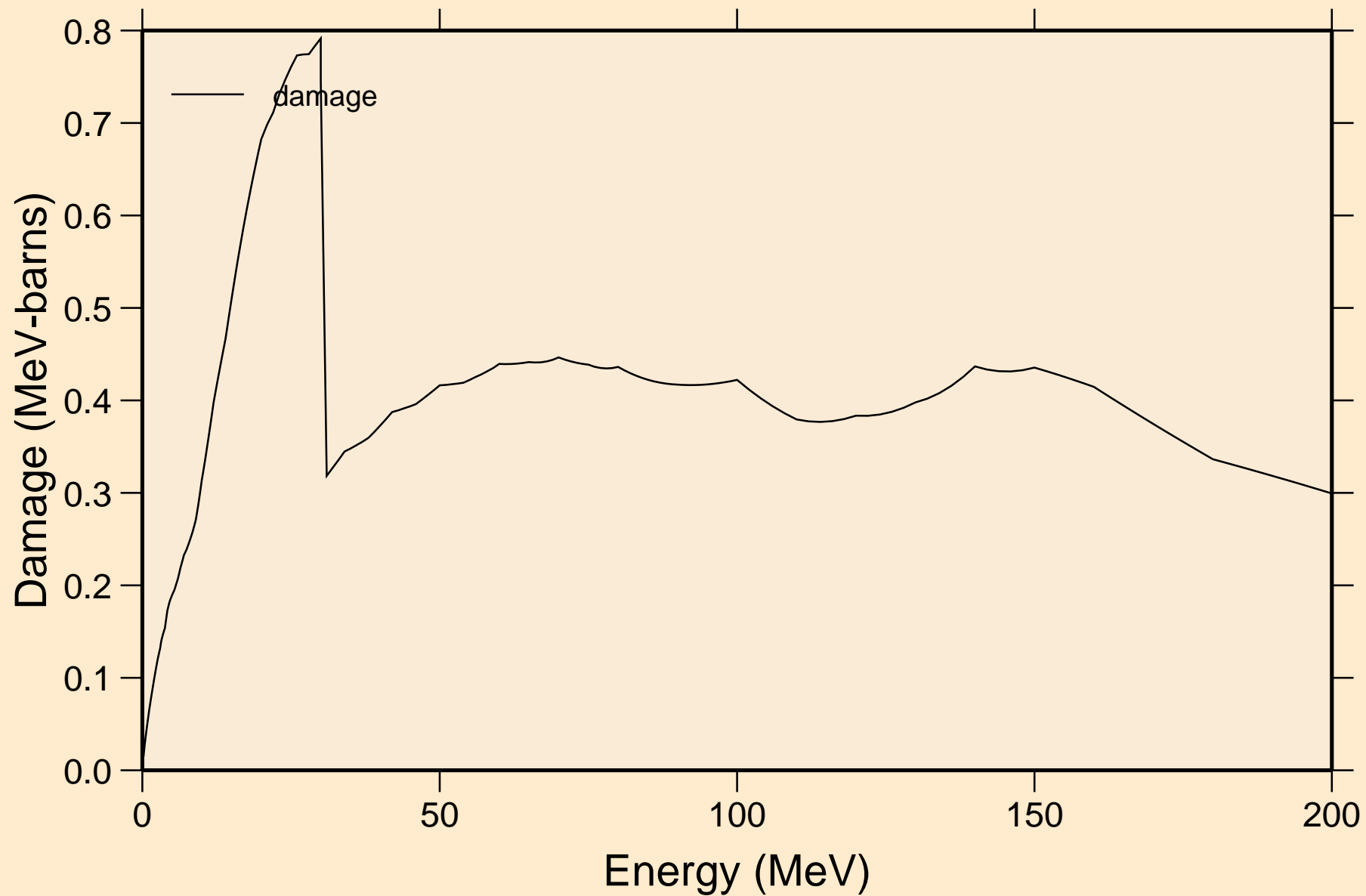
Principal cross sections



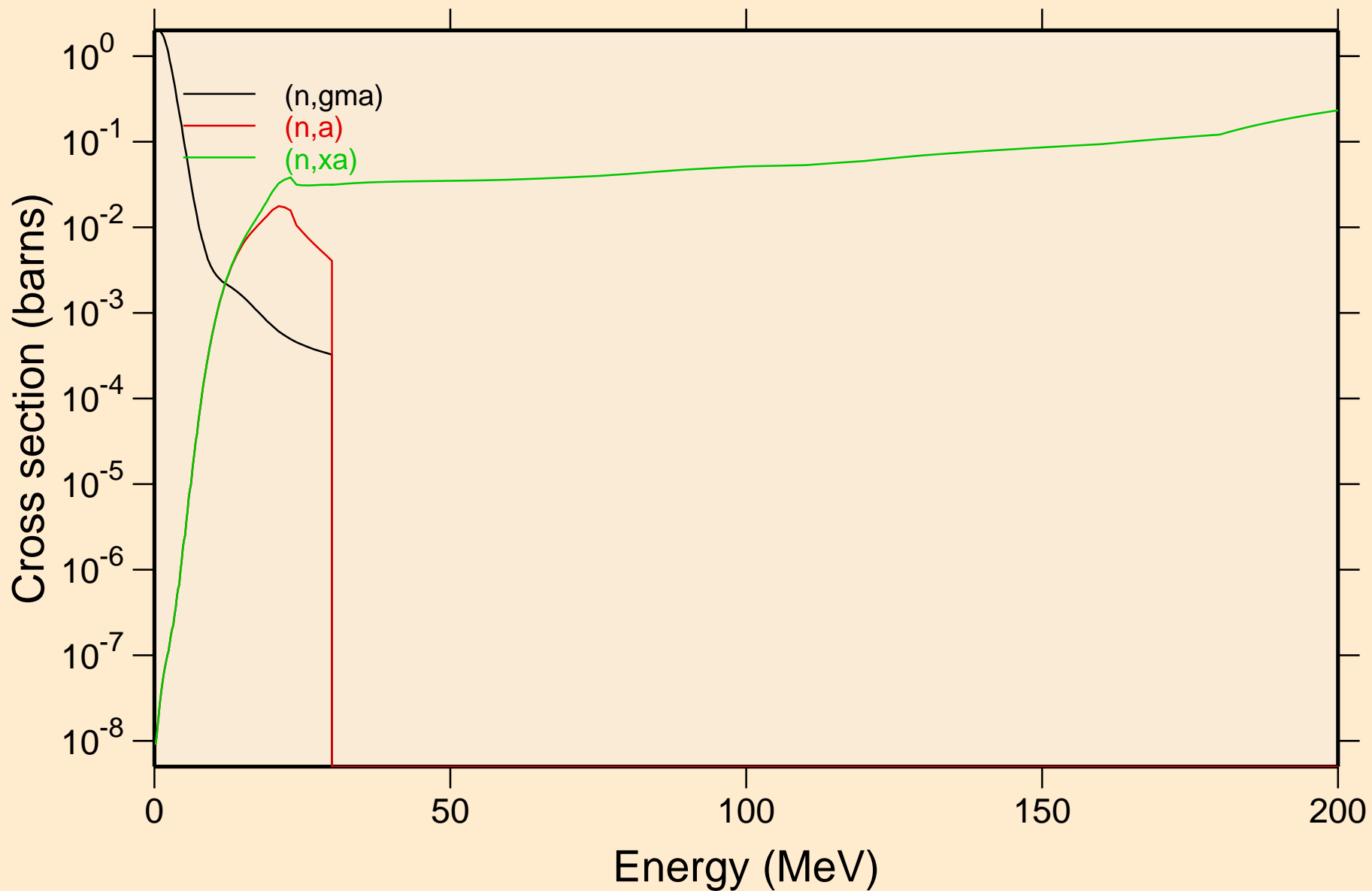
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Heating



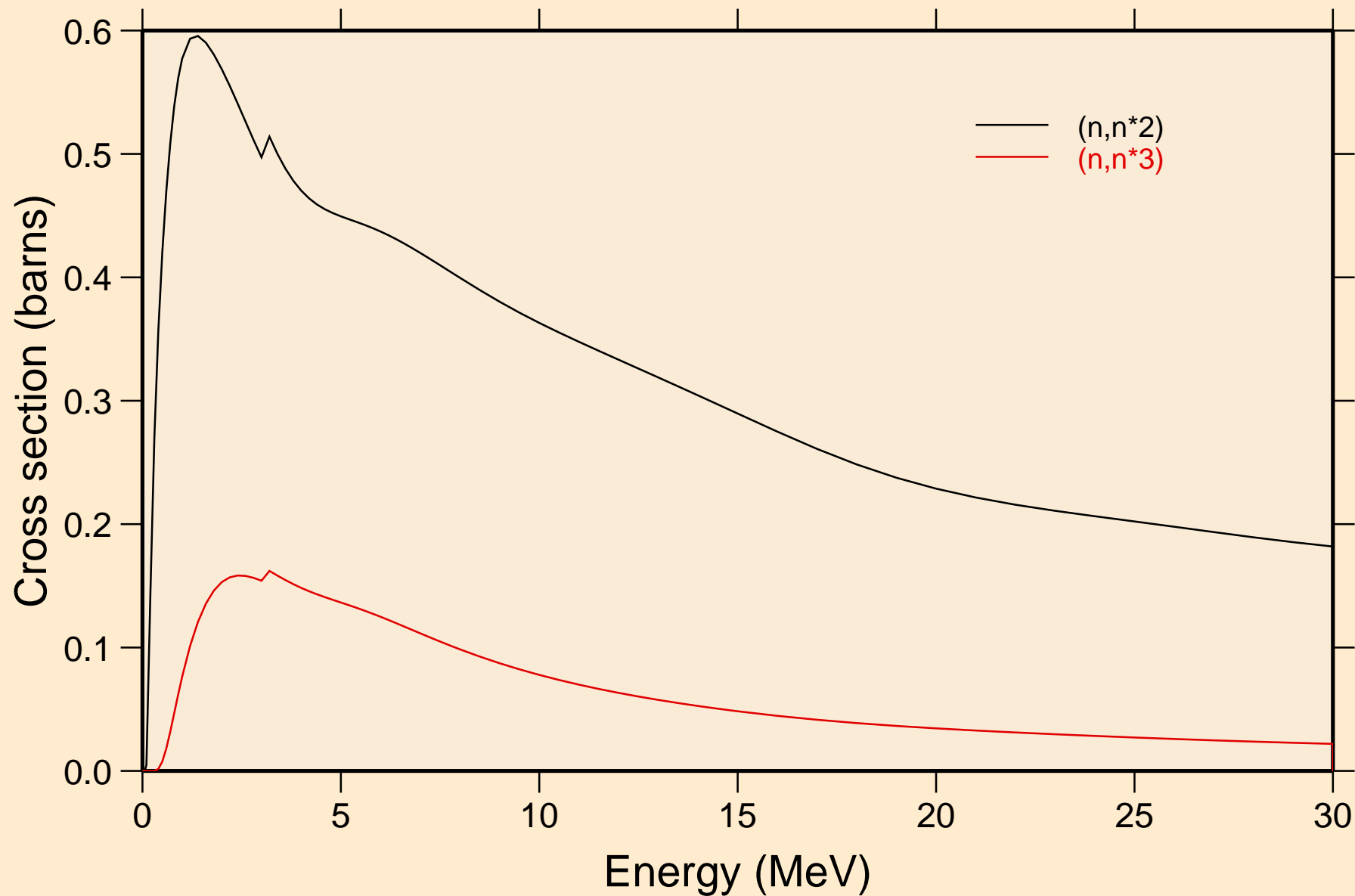
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K Damage



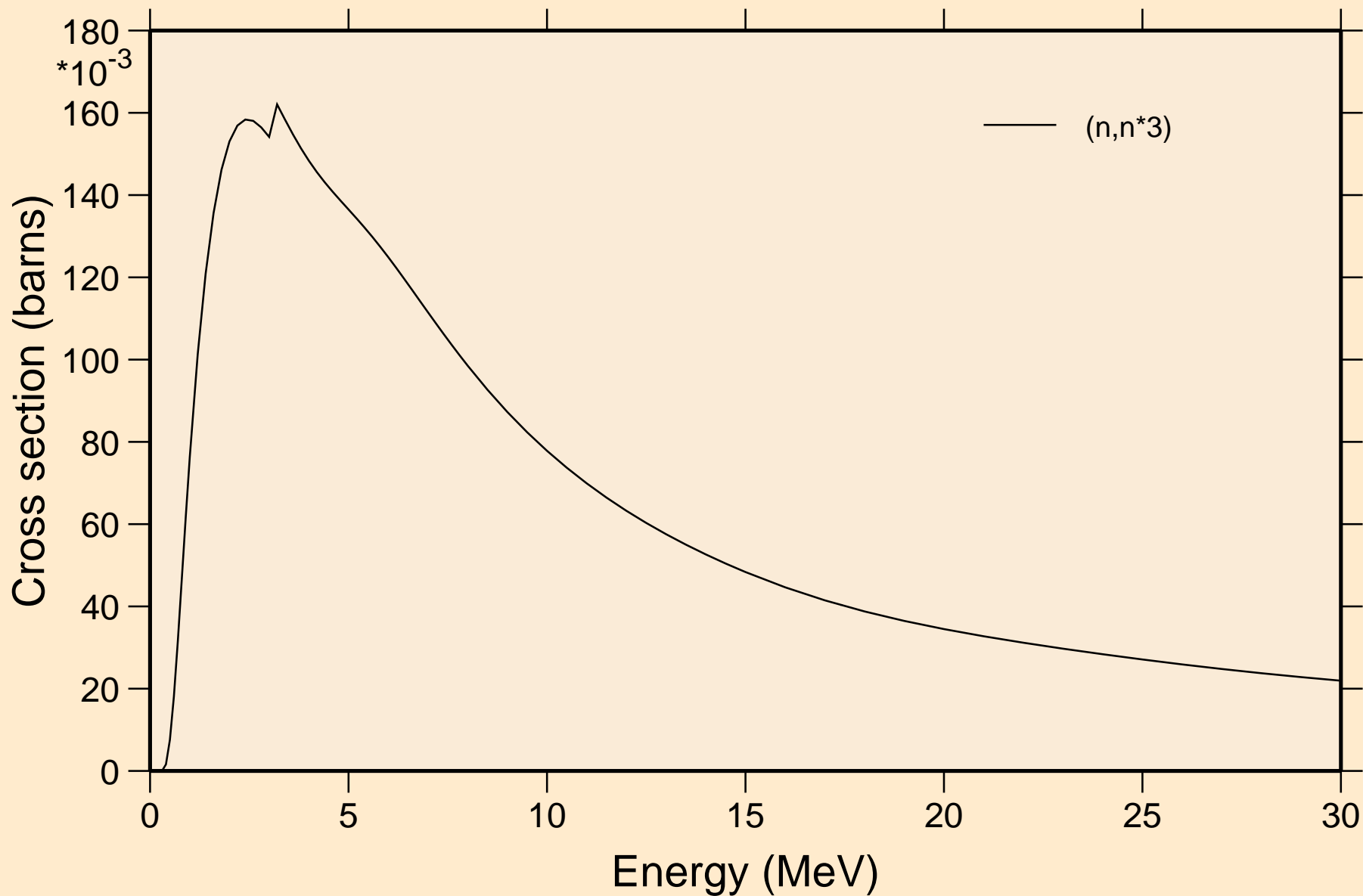
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Non-threshold reactions



HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Inelastic levels

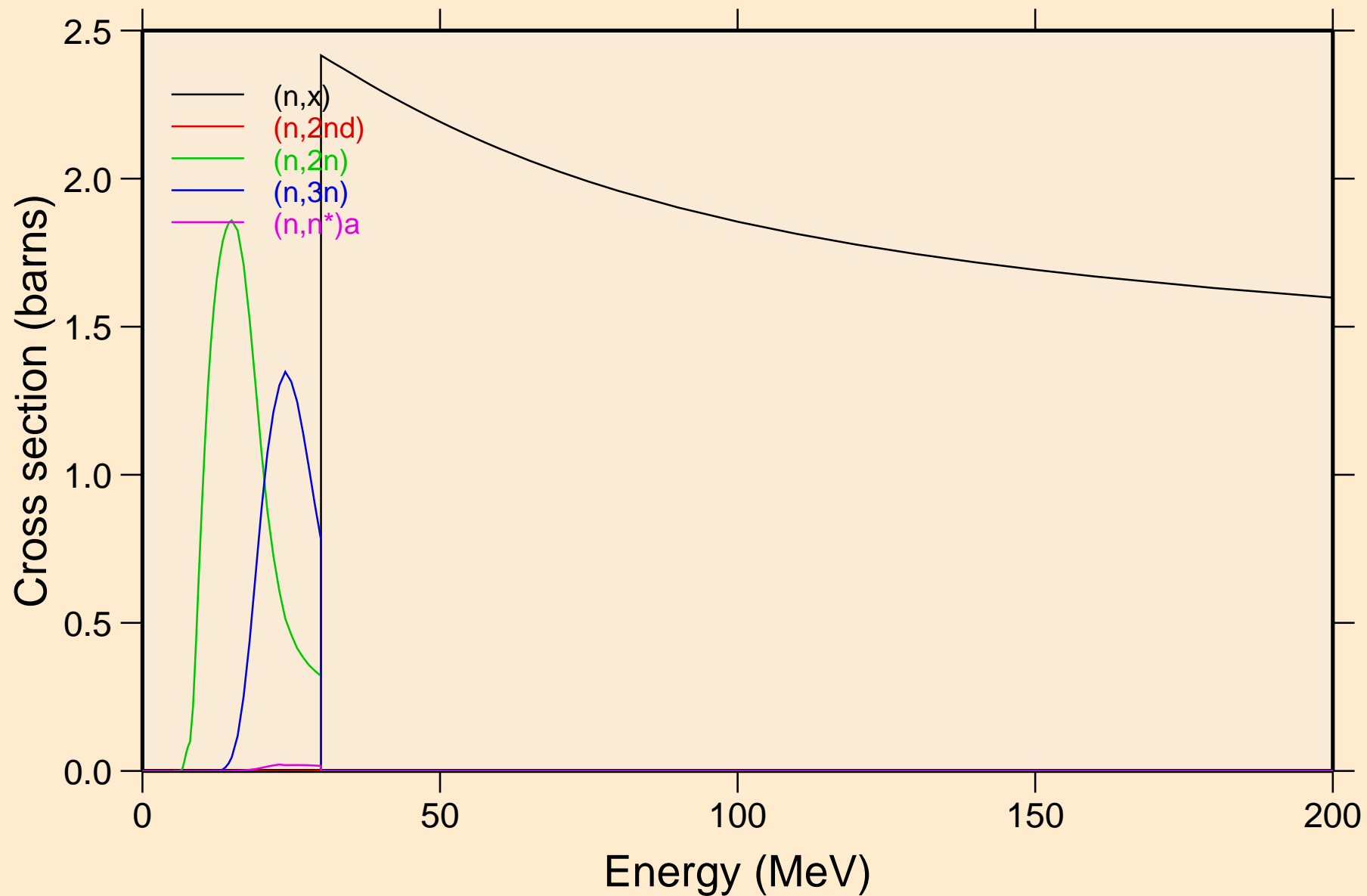


HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Inelastic levels



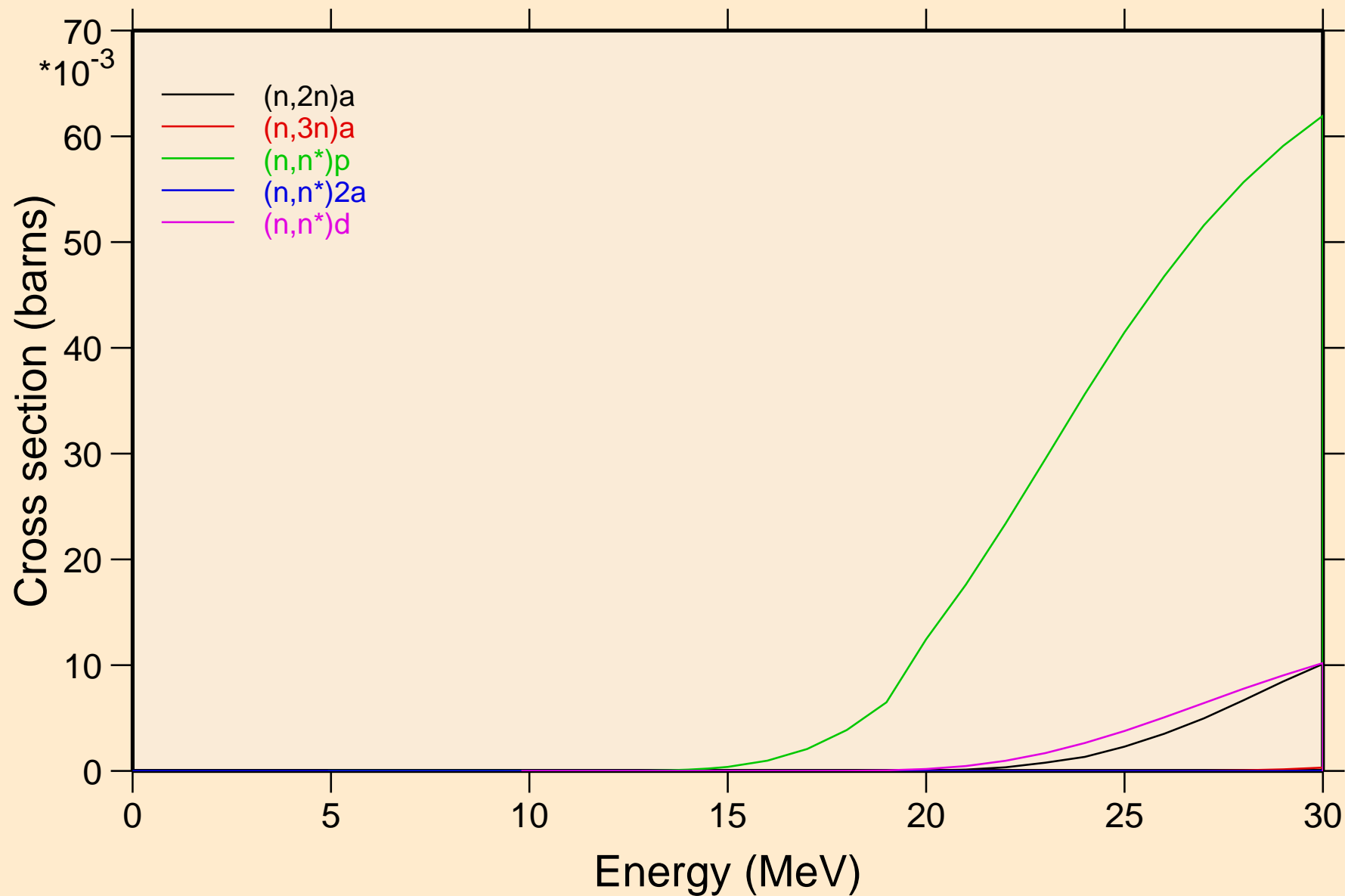
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

Threshold reactions



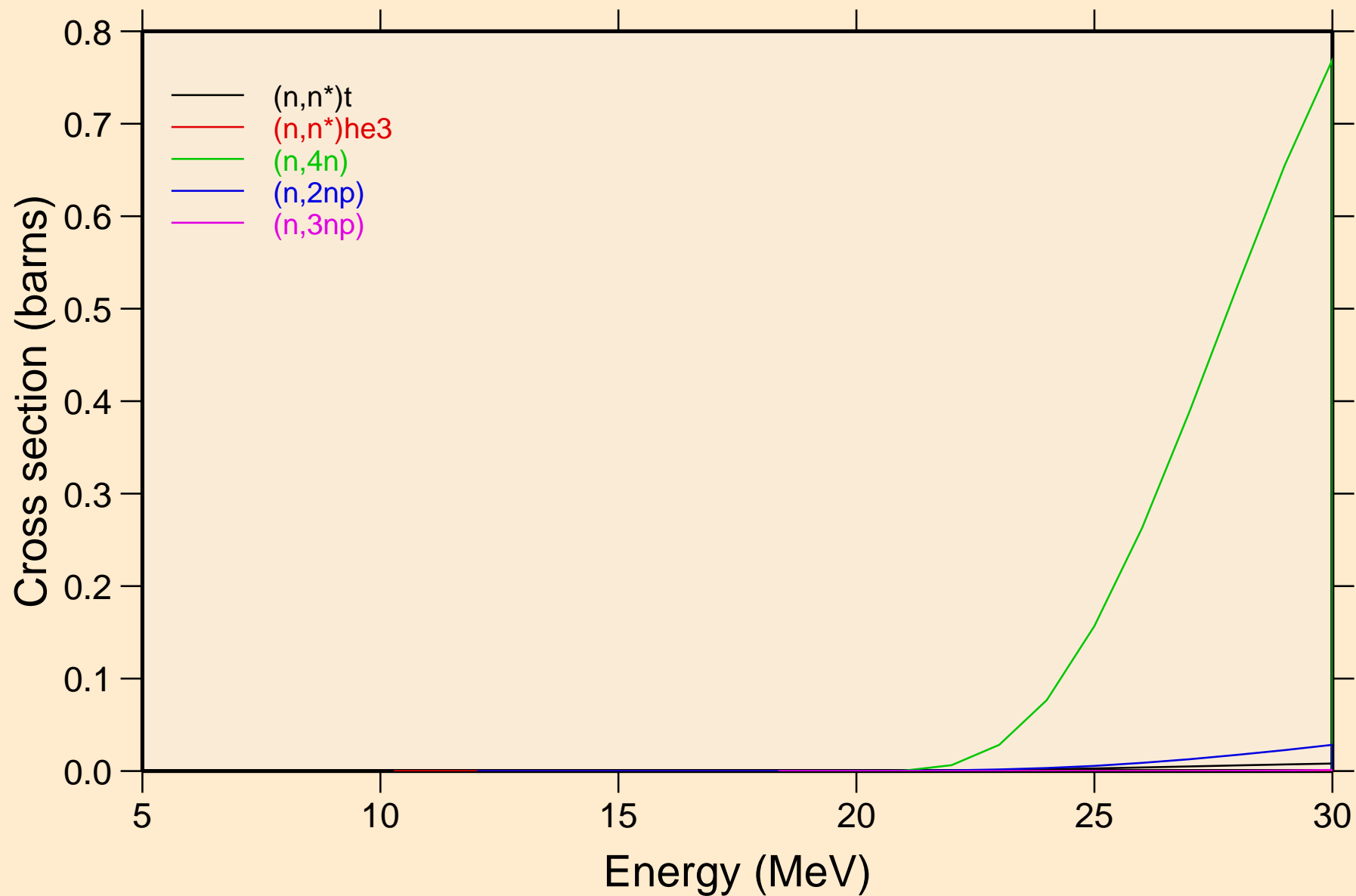
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

Threshold reactions



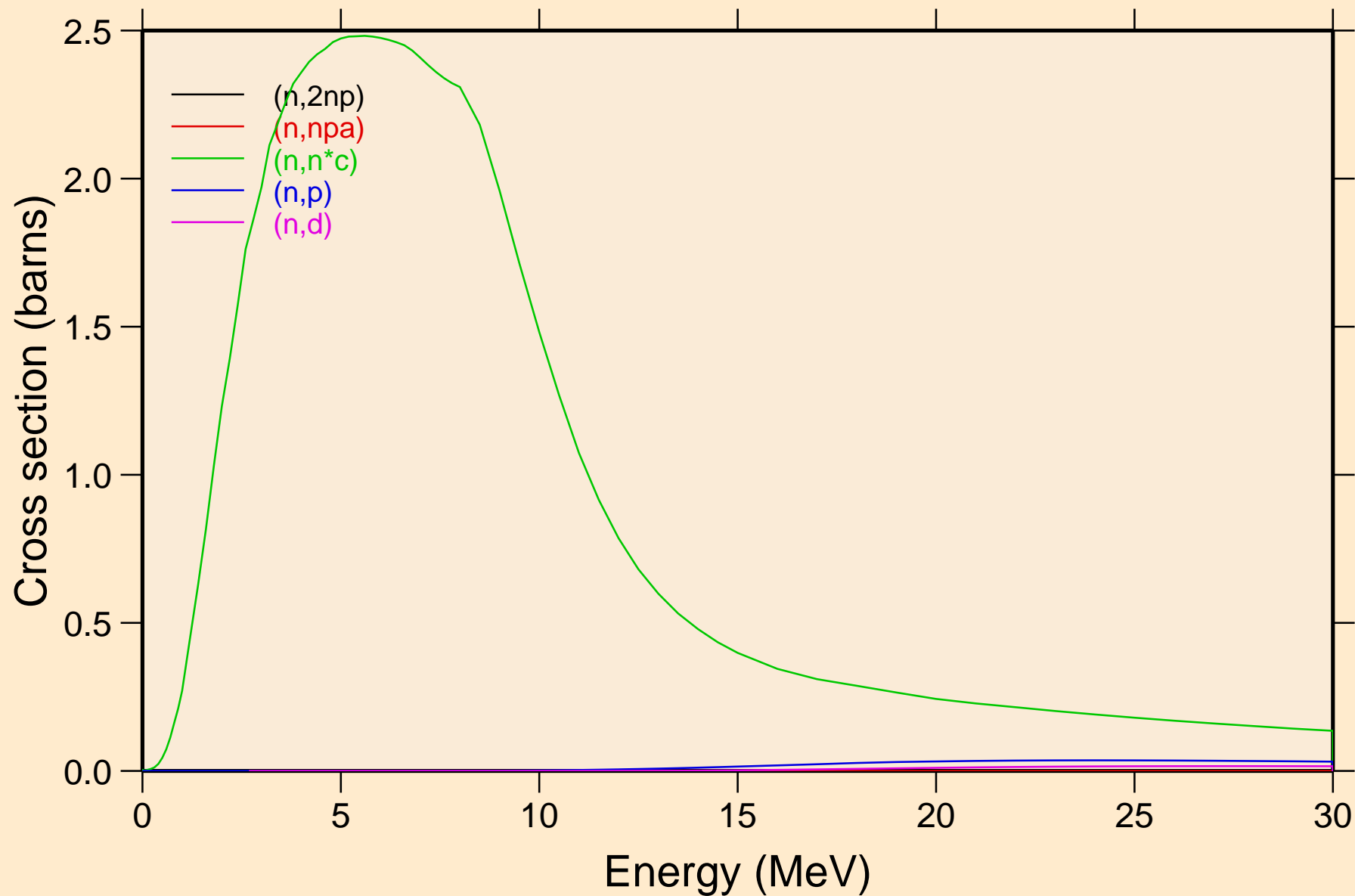
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

Threshold reactions

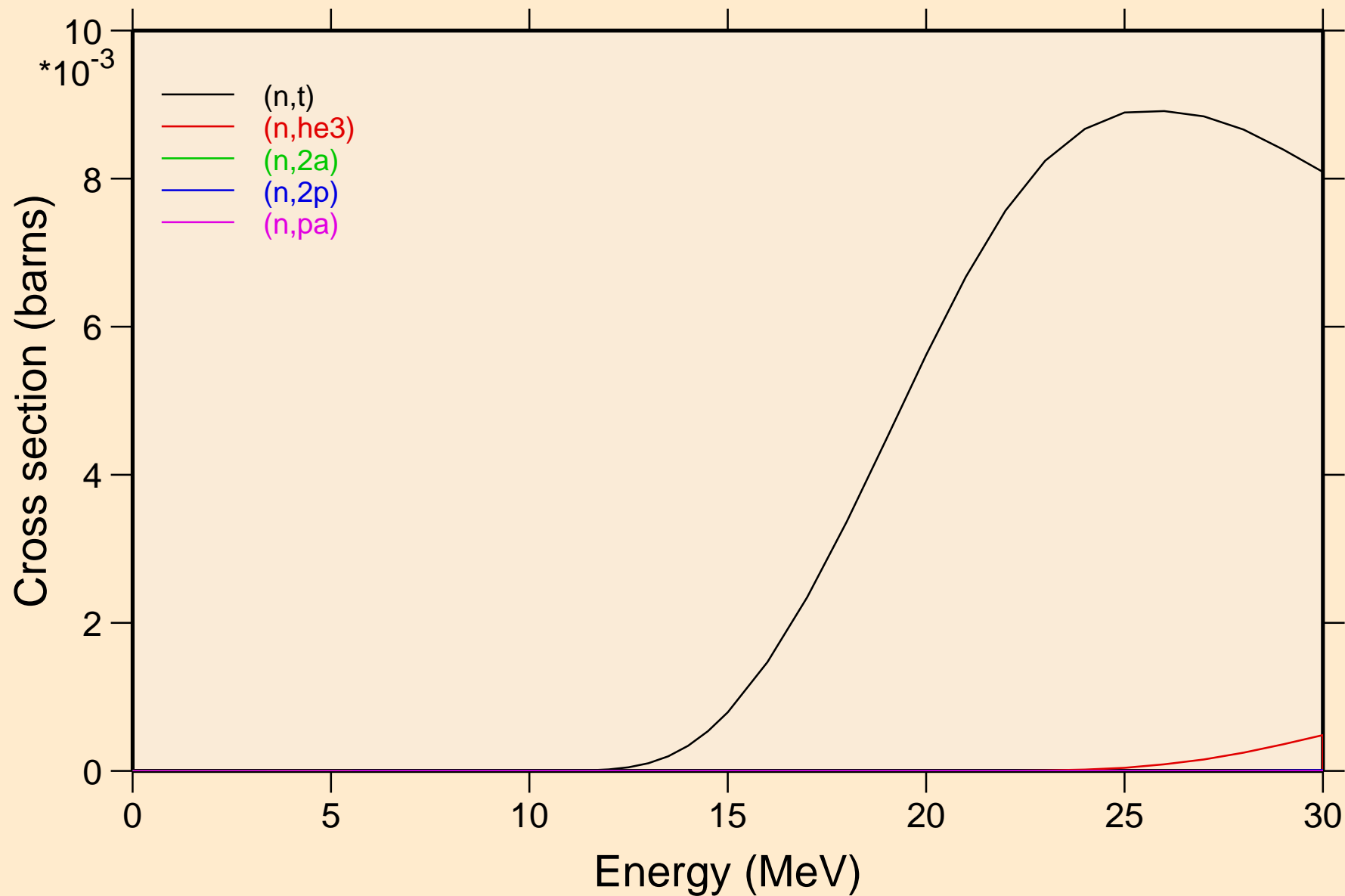


HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

Threshold reactions

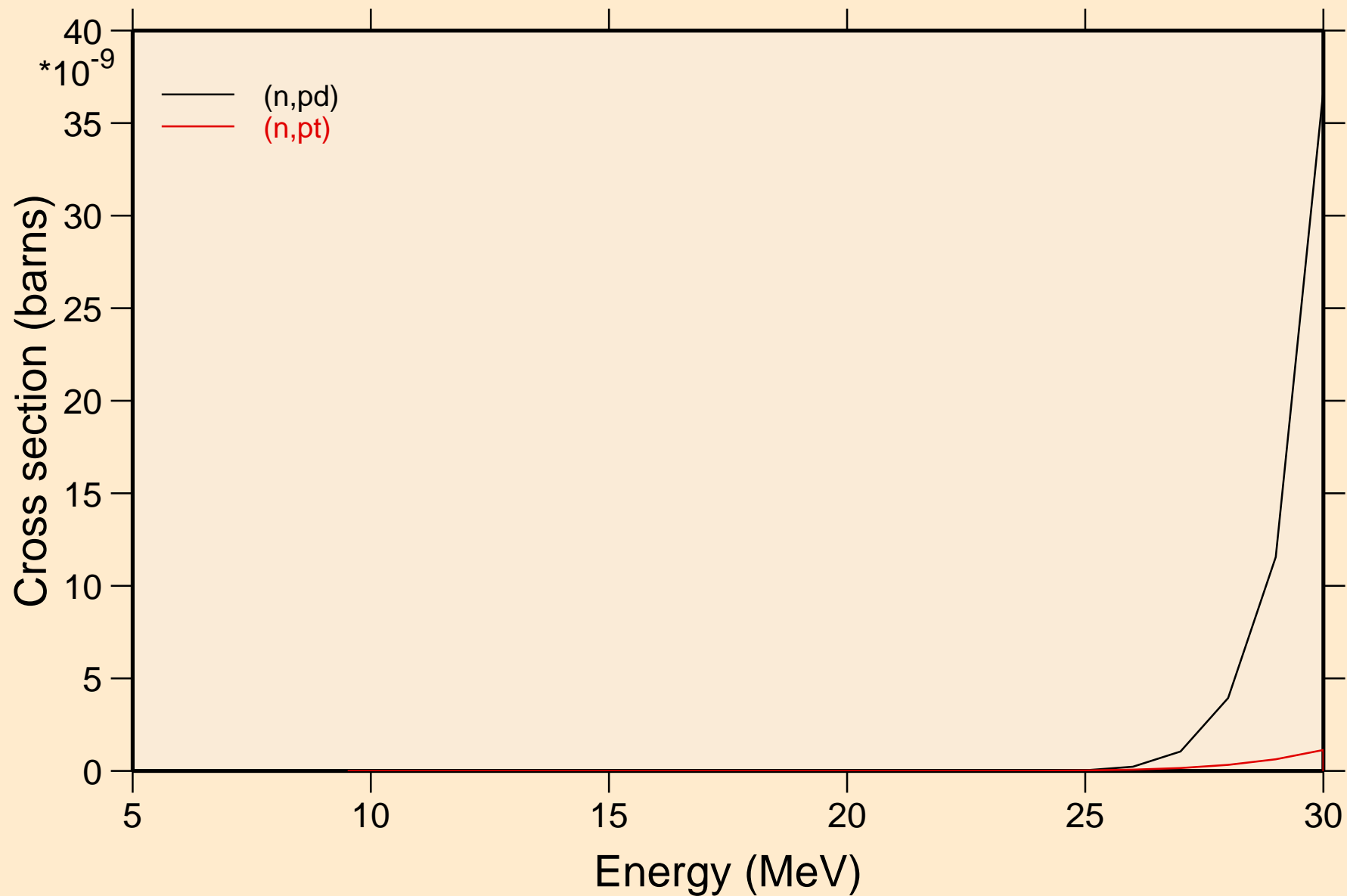


HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Threshold reactions



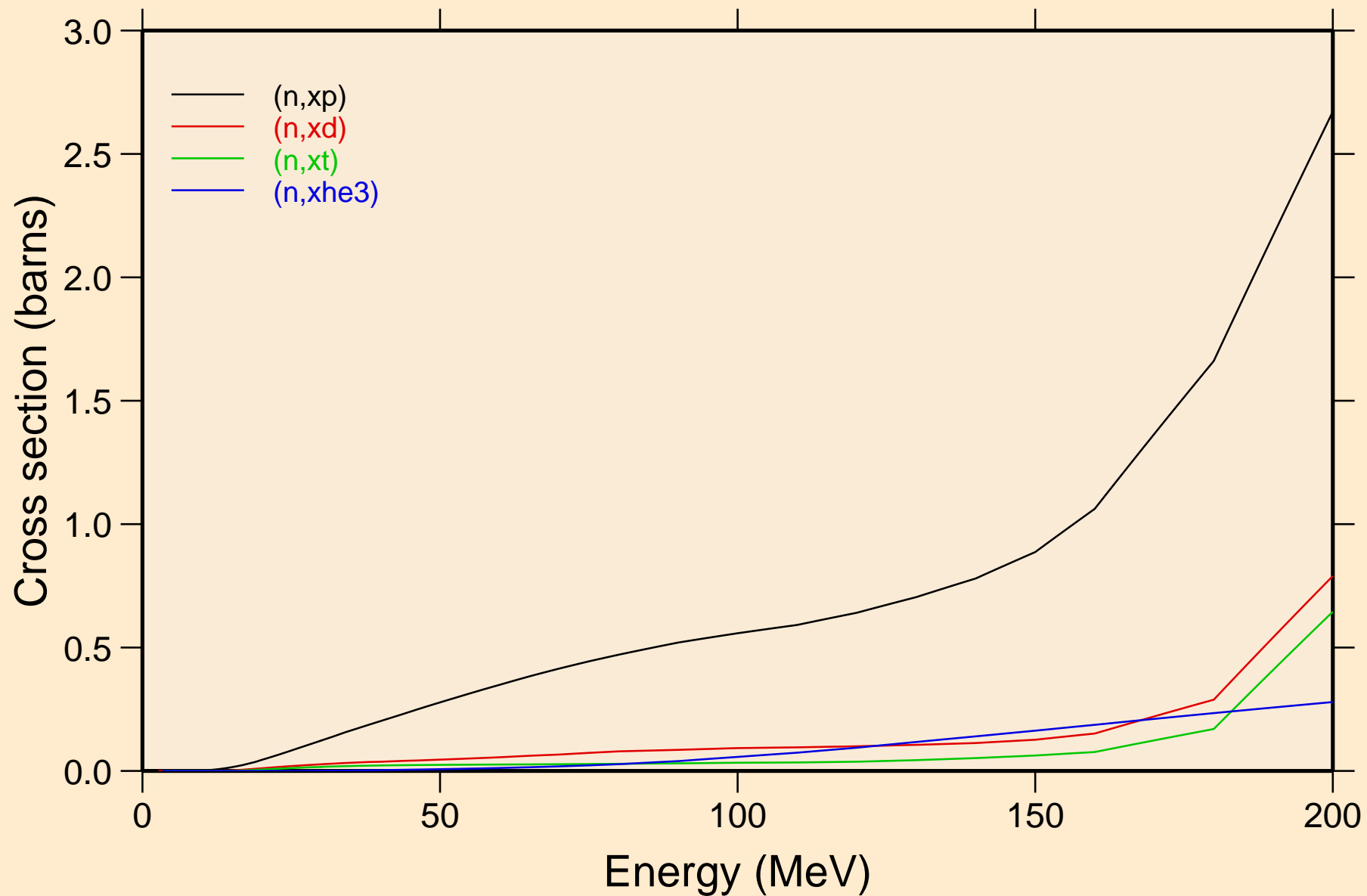
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

Threshold reactions

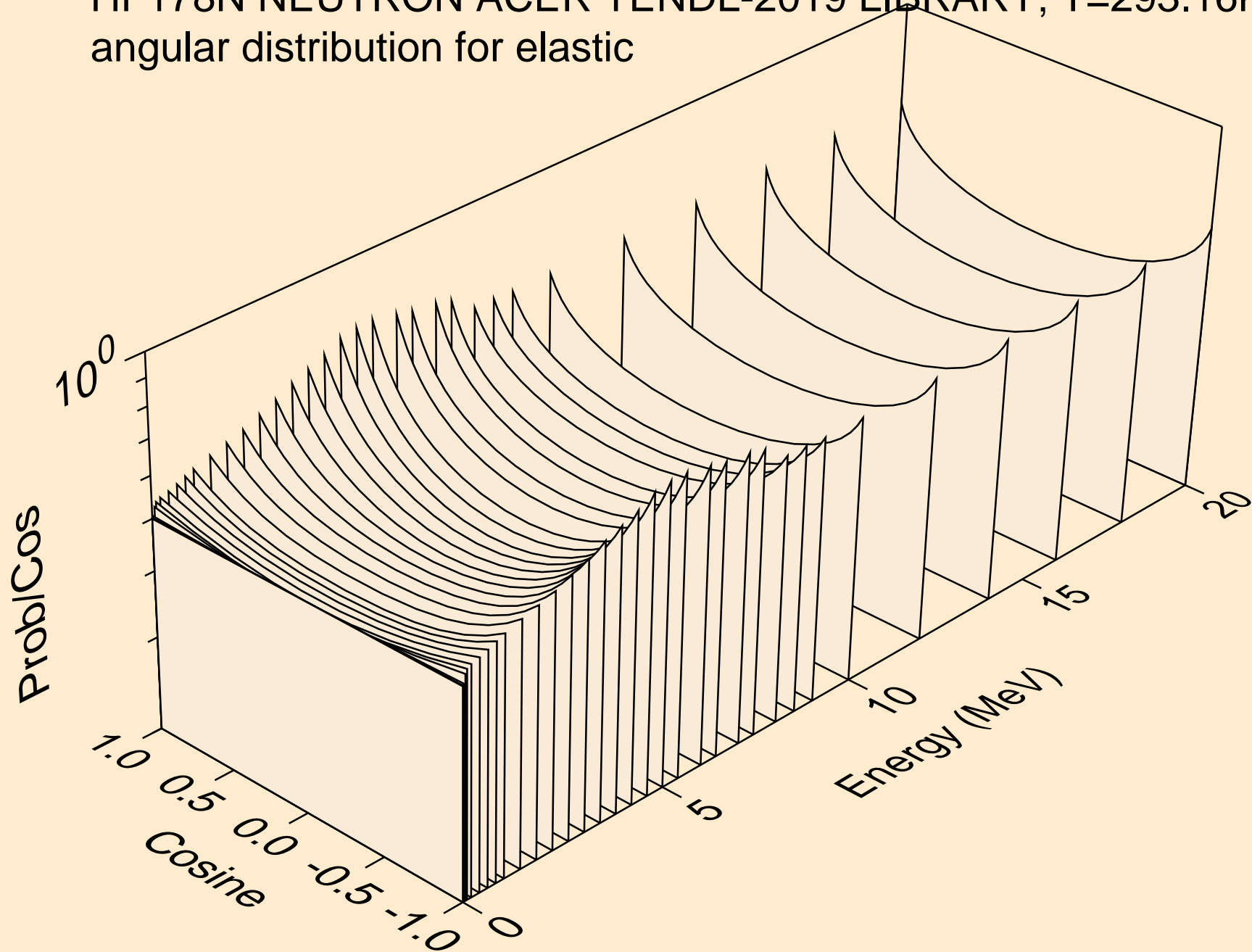


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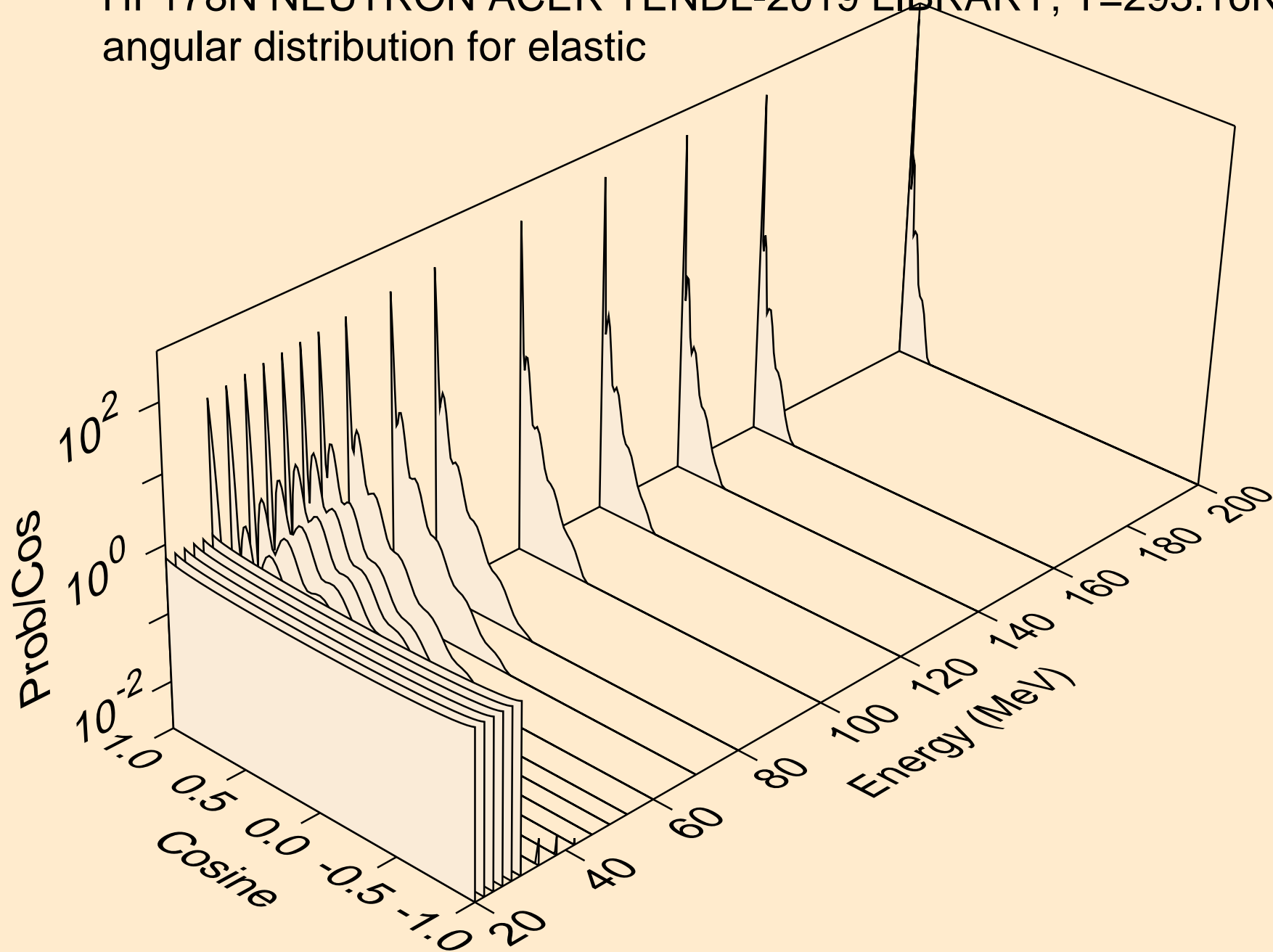
Threshold reactions



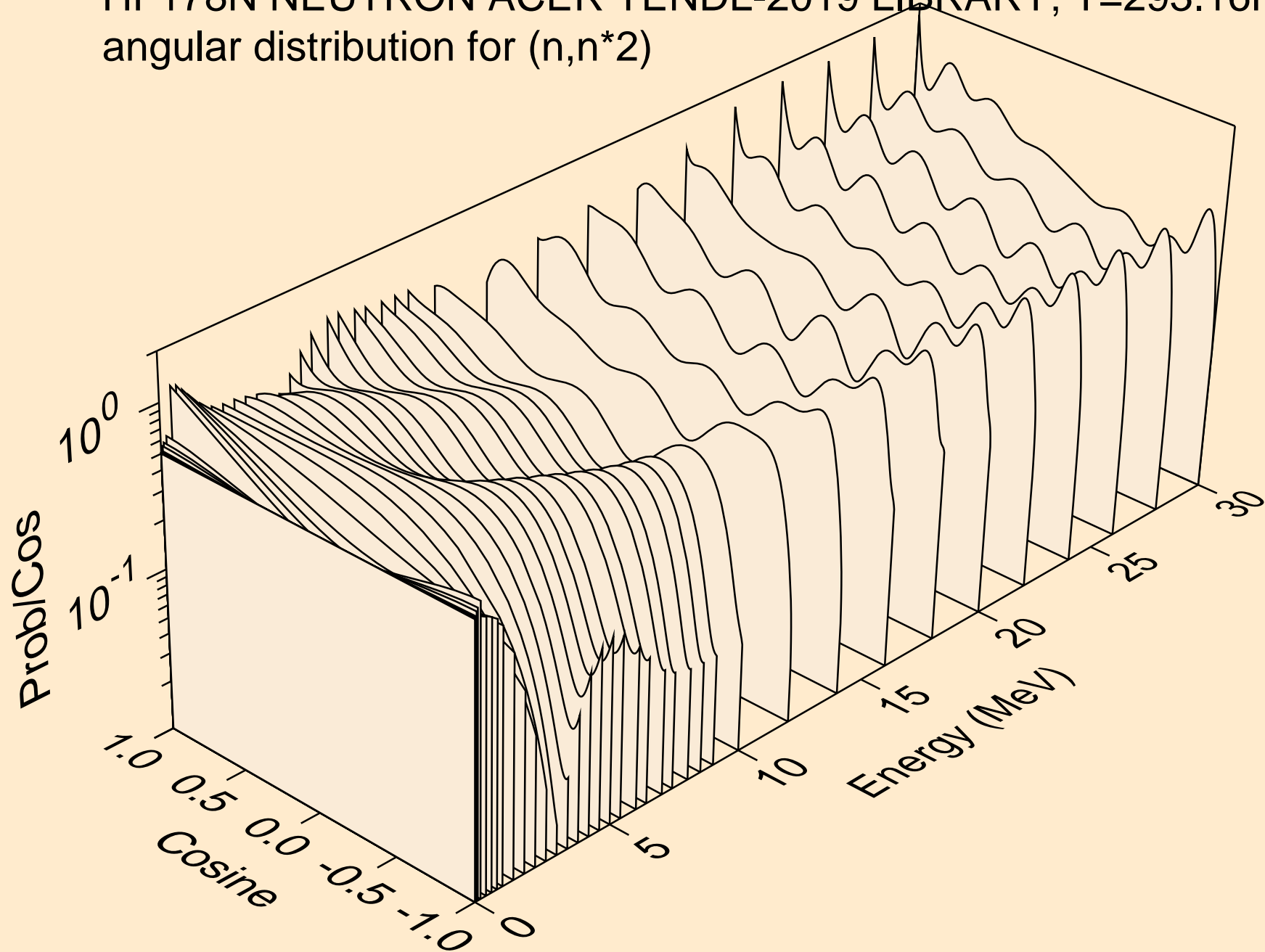
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angular distribution for elastic



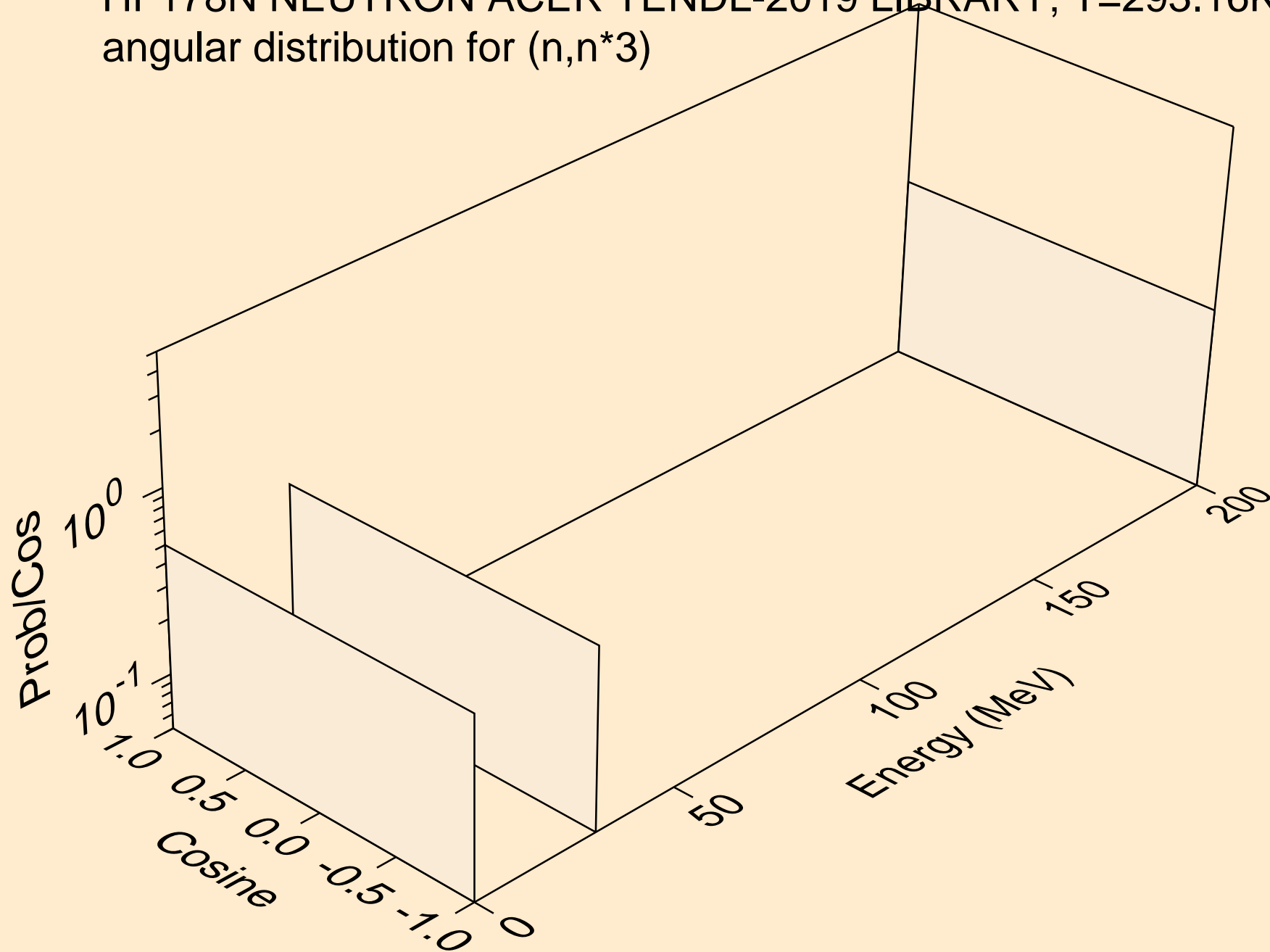
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angular distribution for elastic



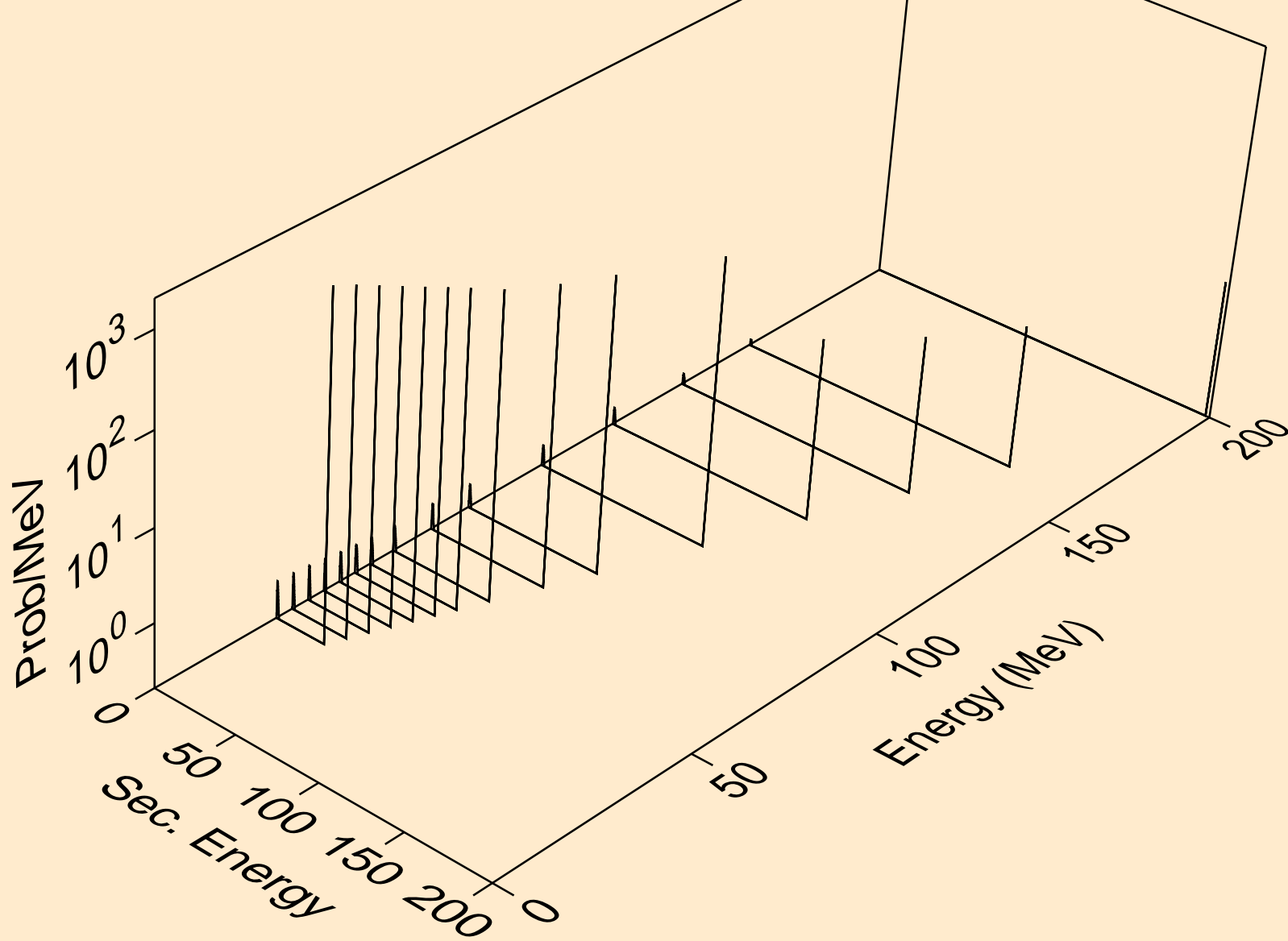
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*2)



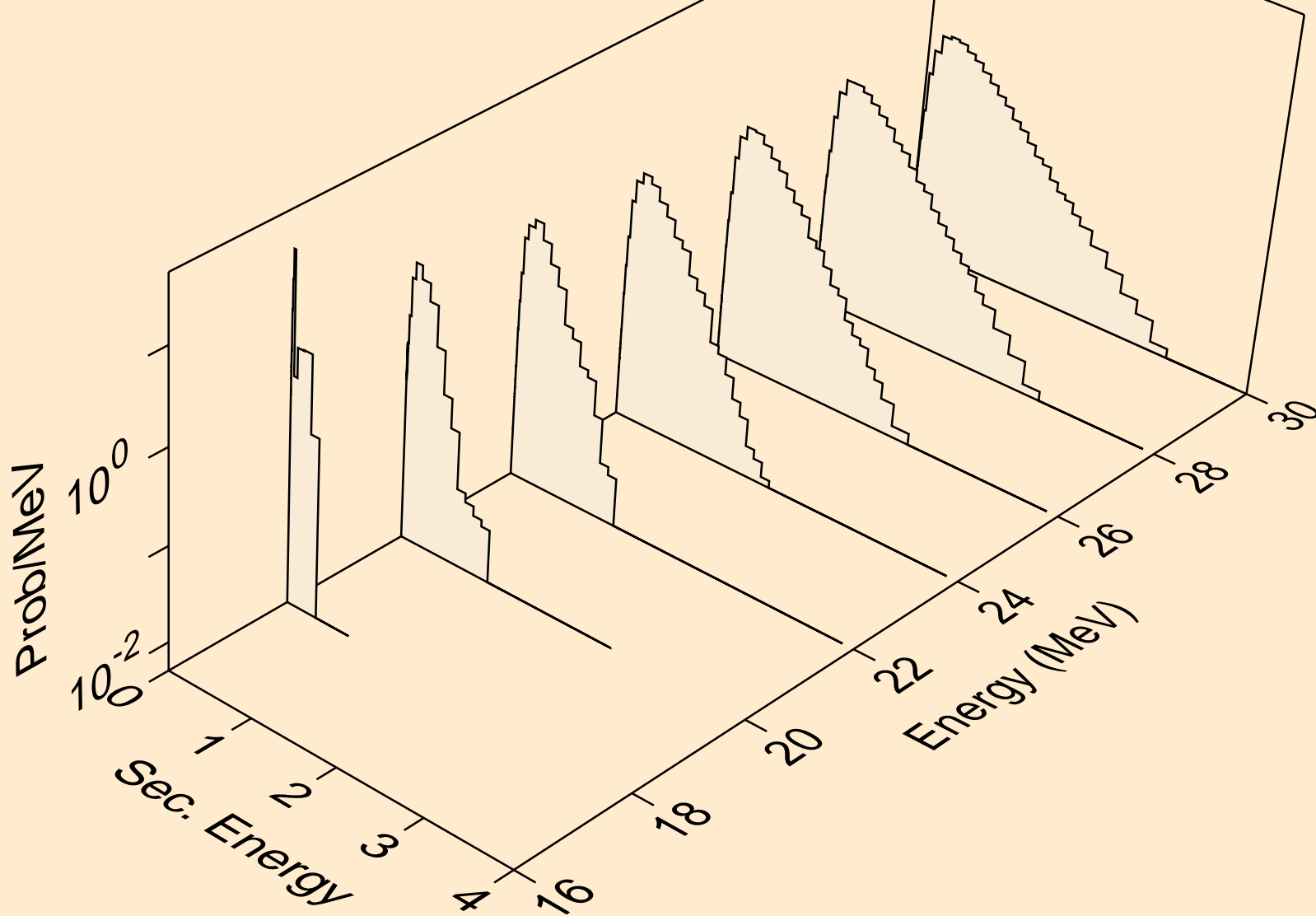
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angular distribution for (n,n*3)



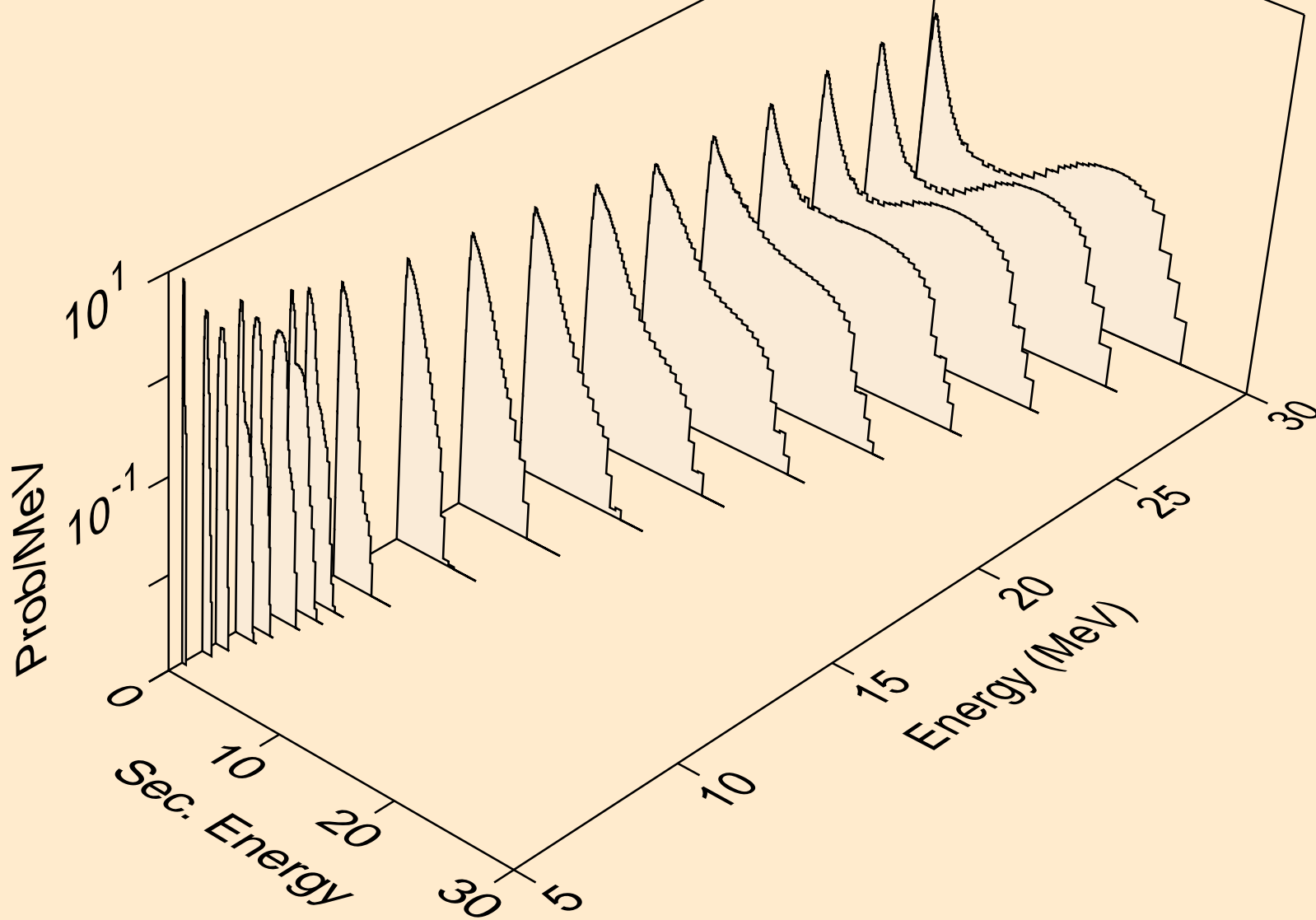
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,x)



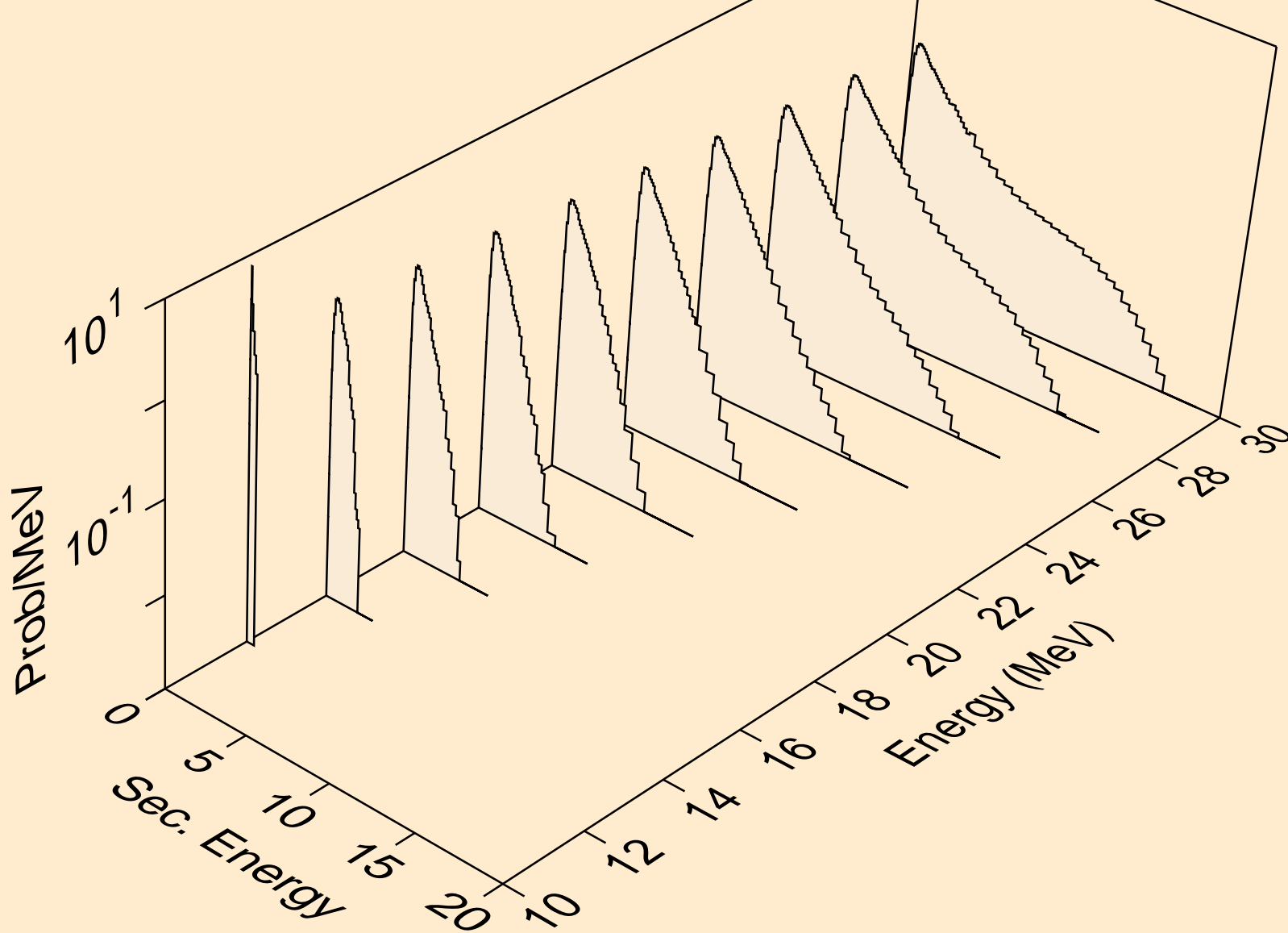
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,2nd)



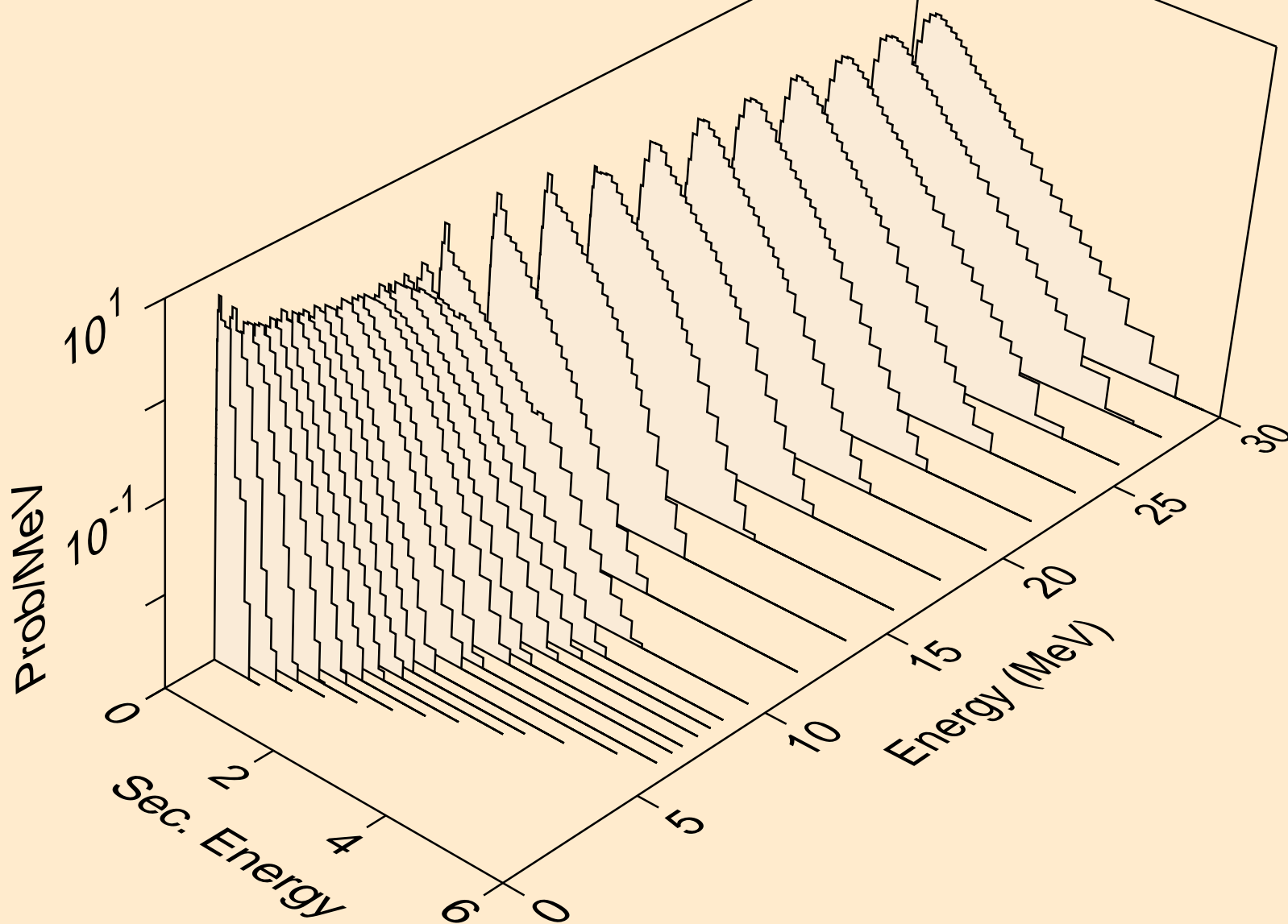
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Neutron emission for (n,2n)



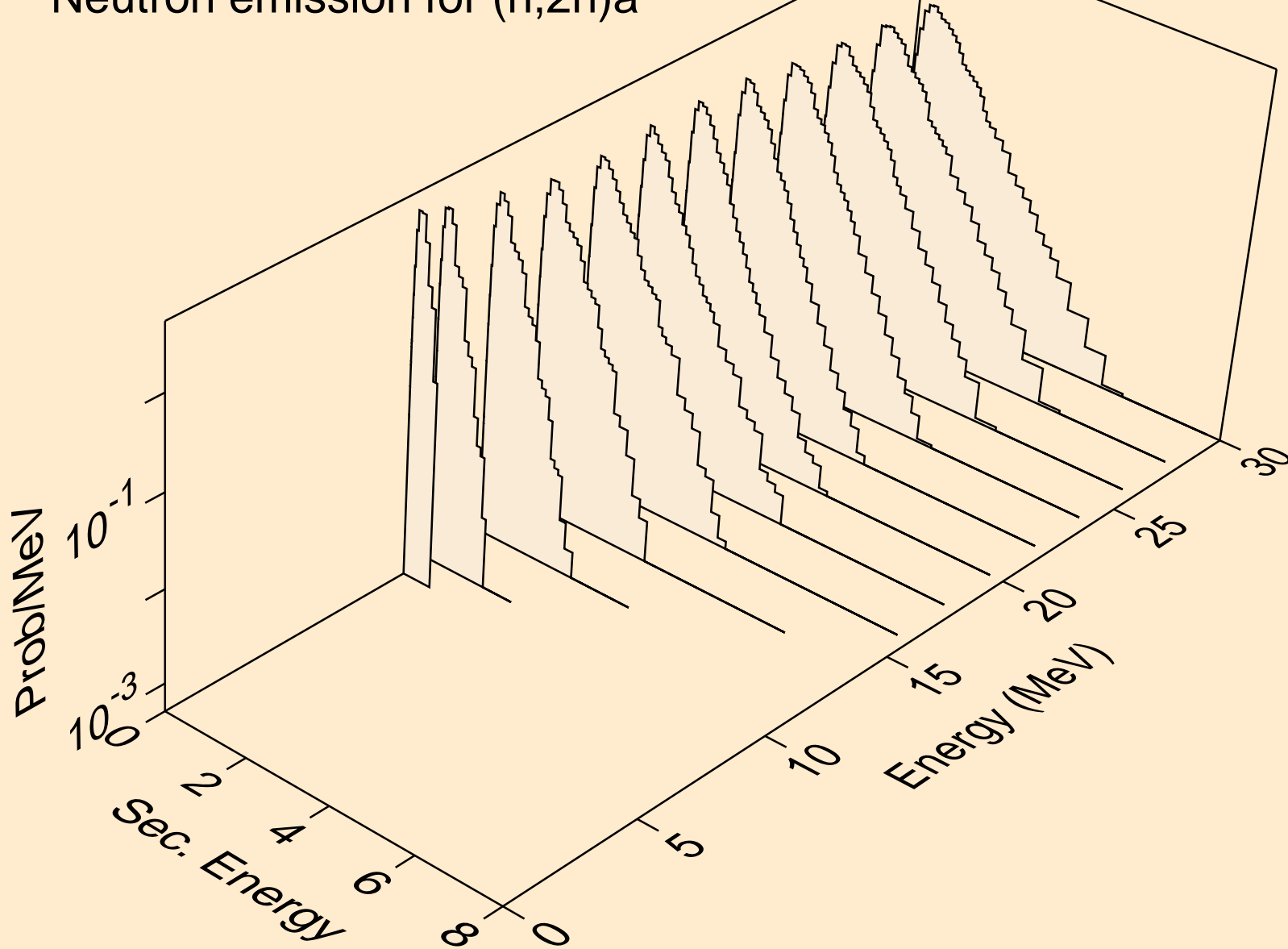
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Neutron emission for (n,3n)



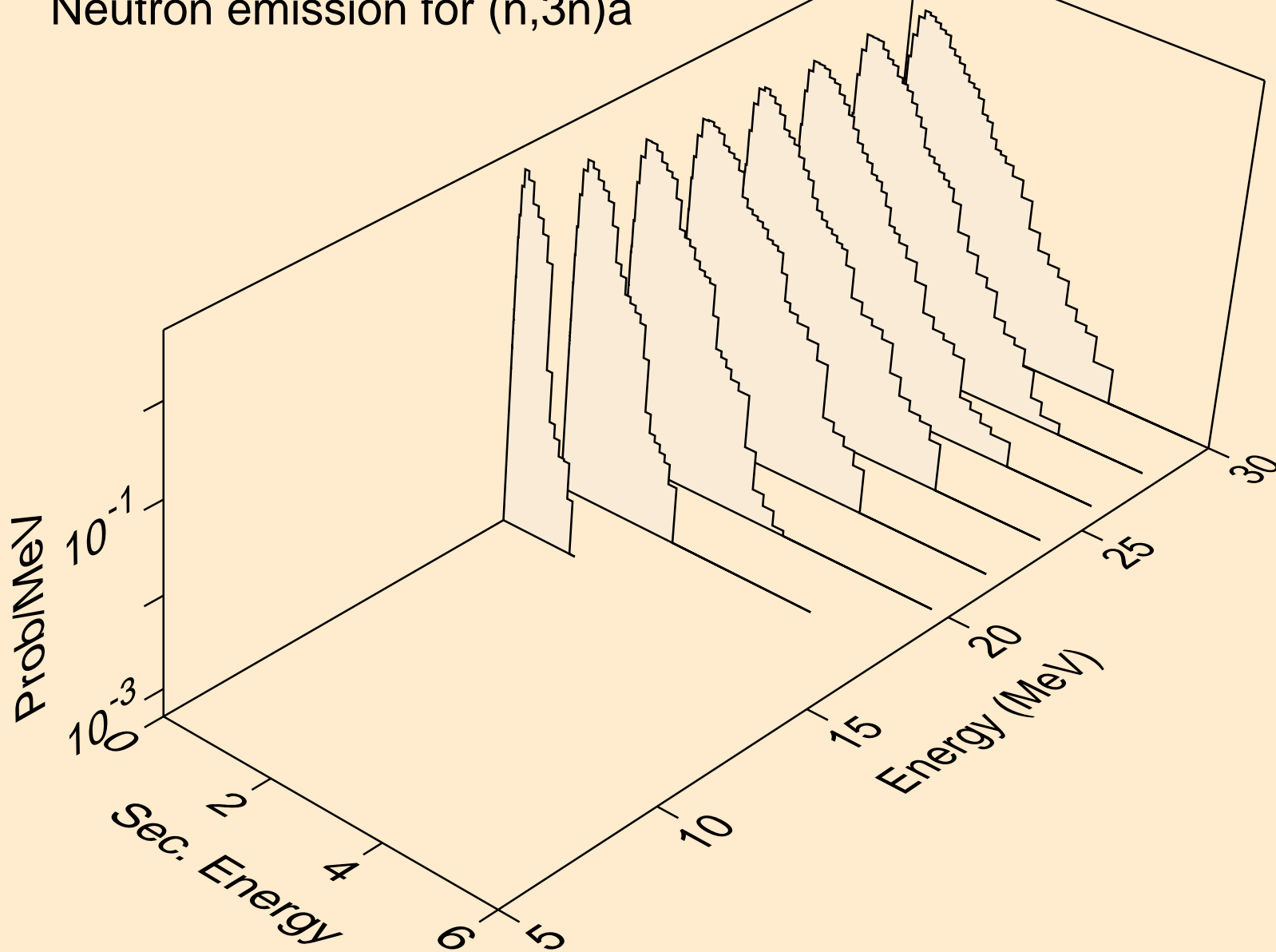
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Neutron emission for (n,n*)a



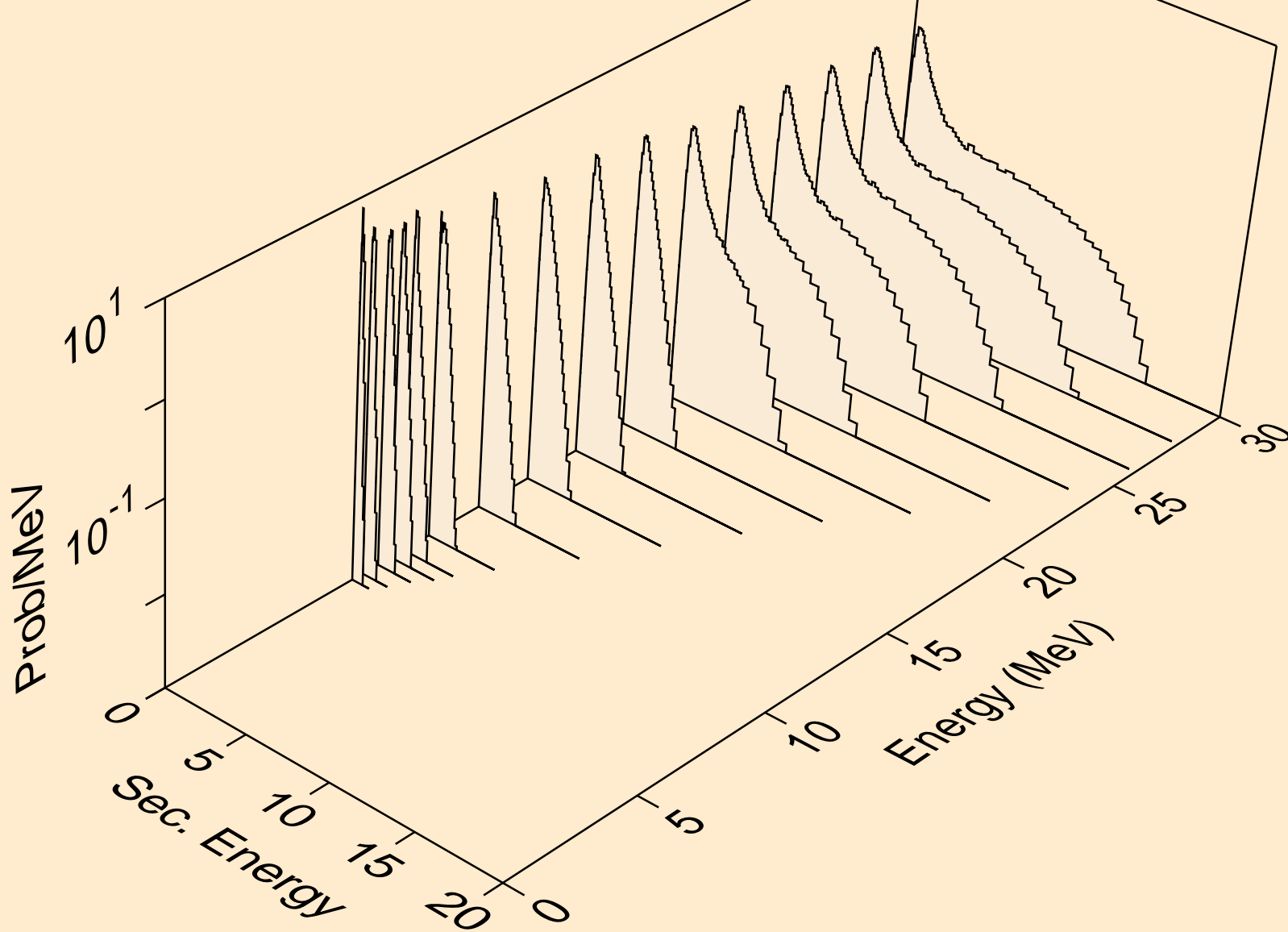
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,2n)a



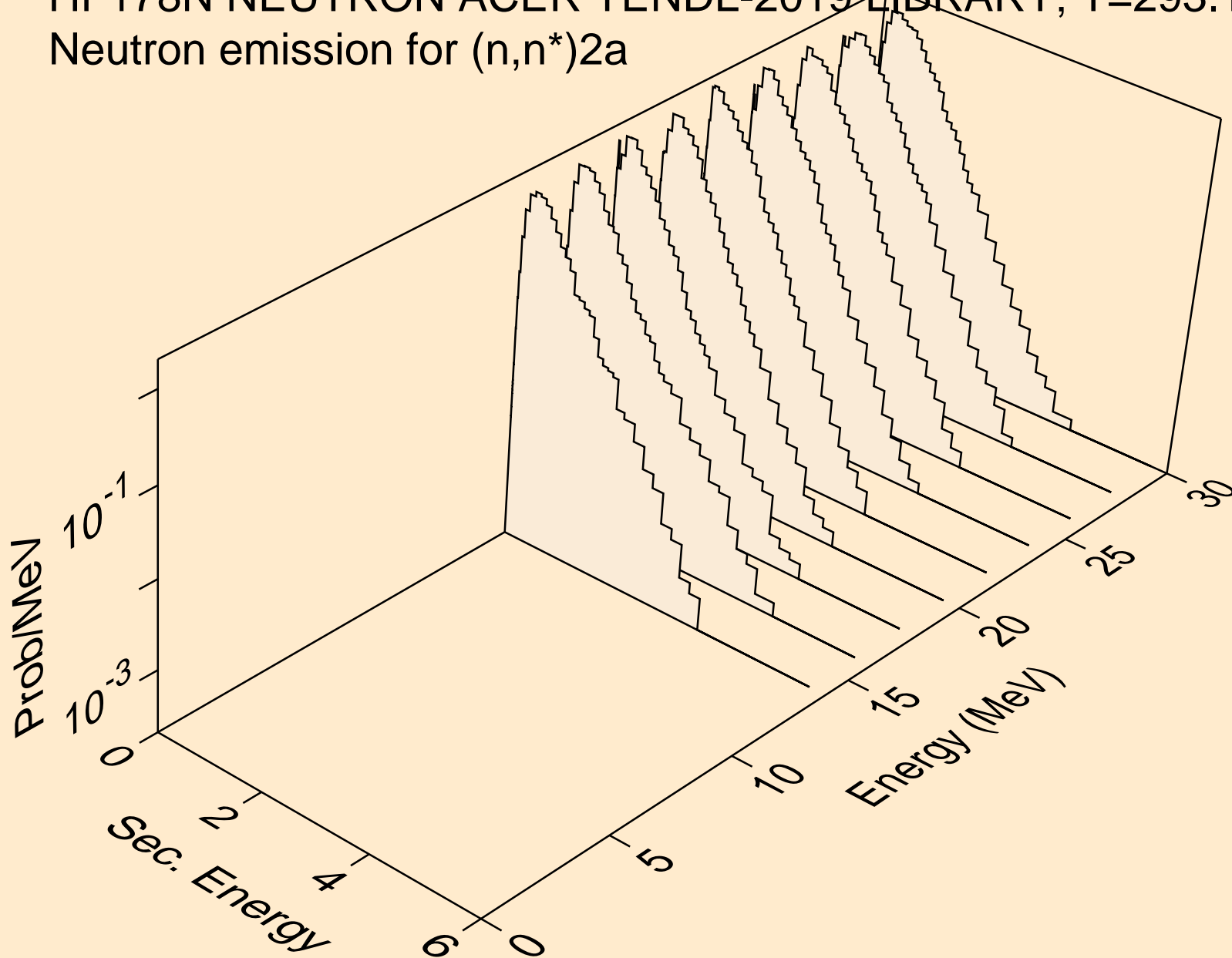
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Neutron emission for (n,3n)a



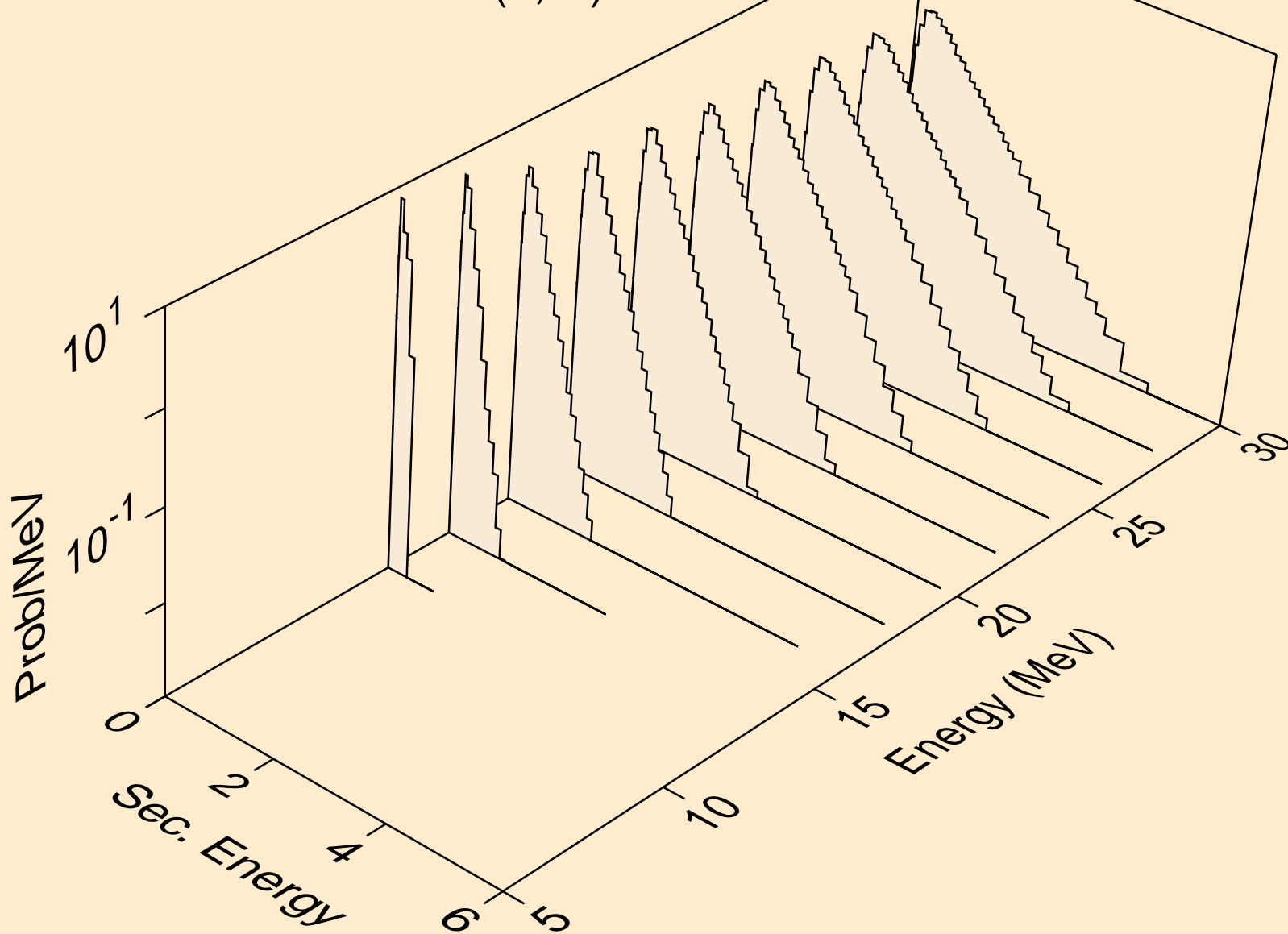
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,n*)p



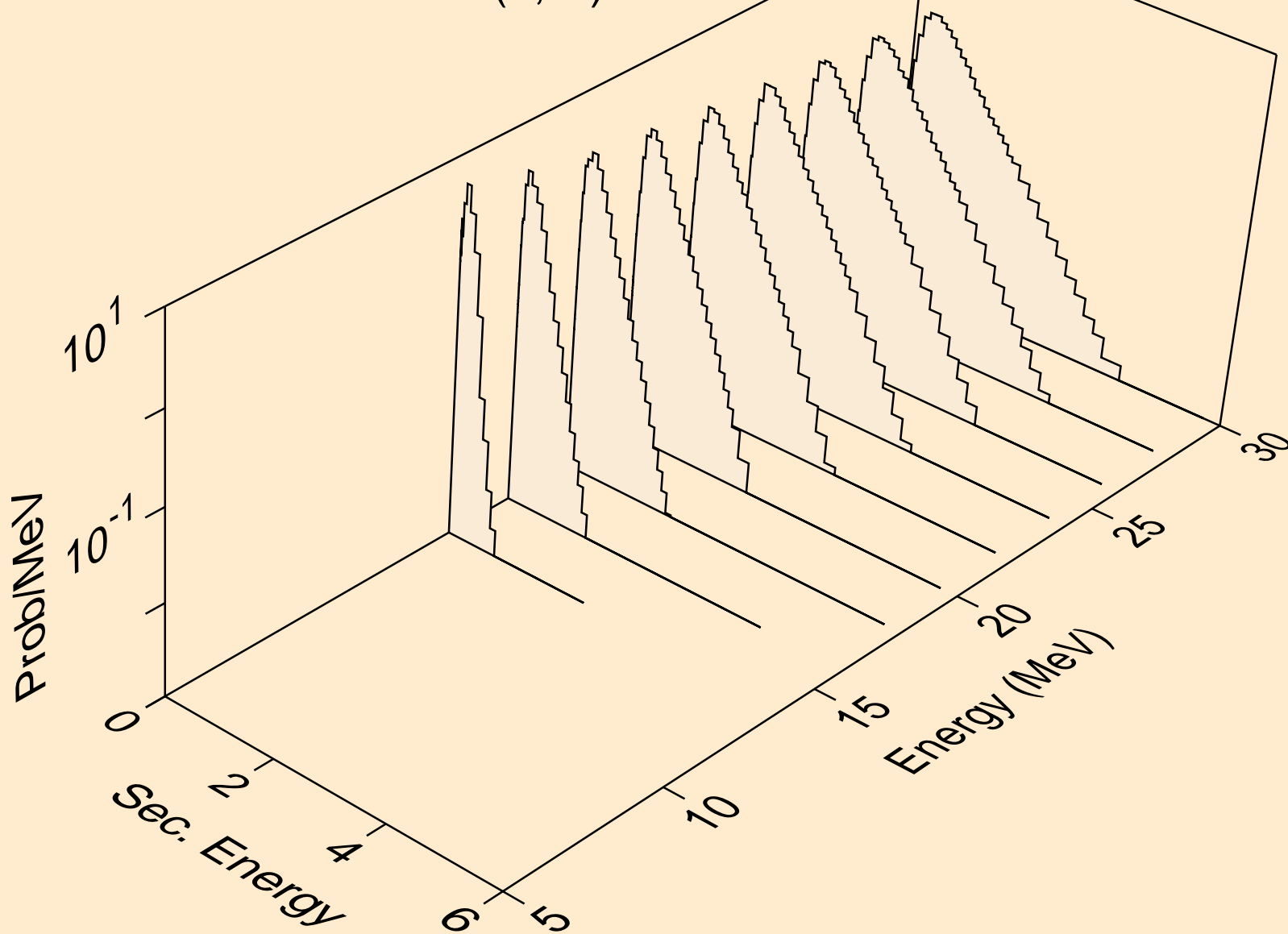
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Neutron emission for (n,n*)2a



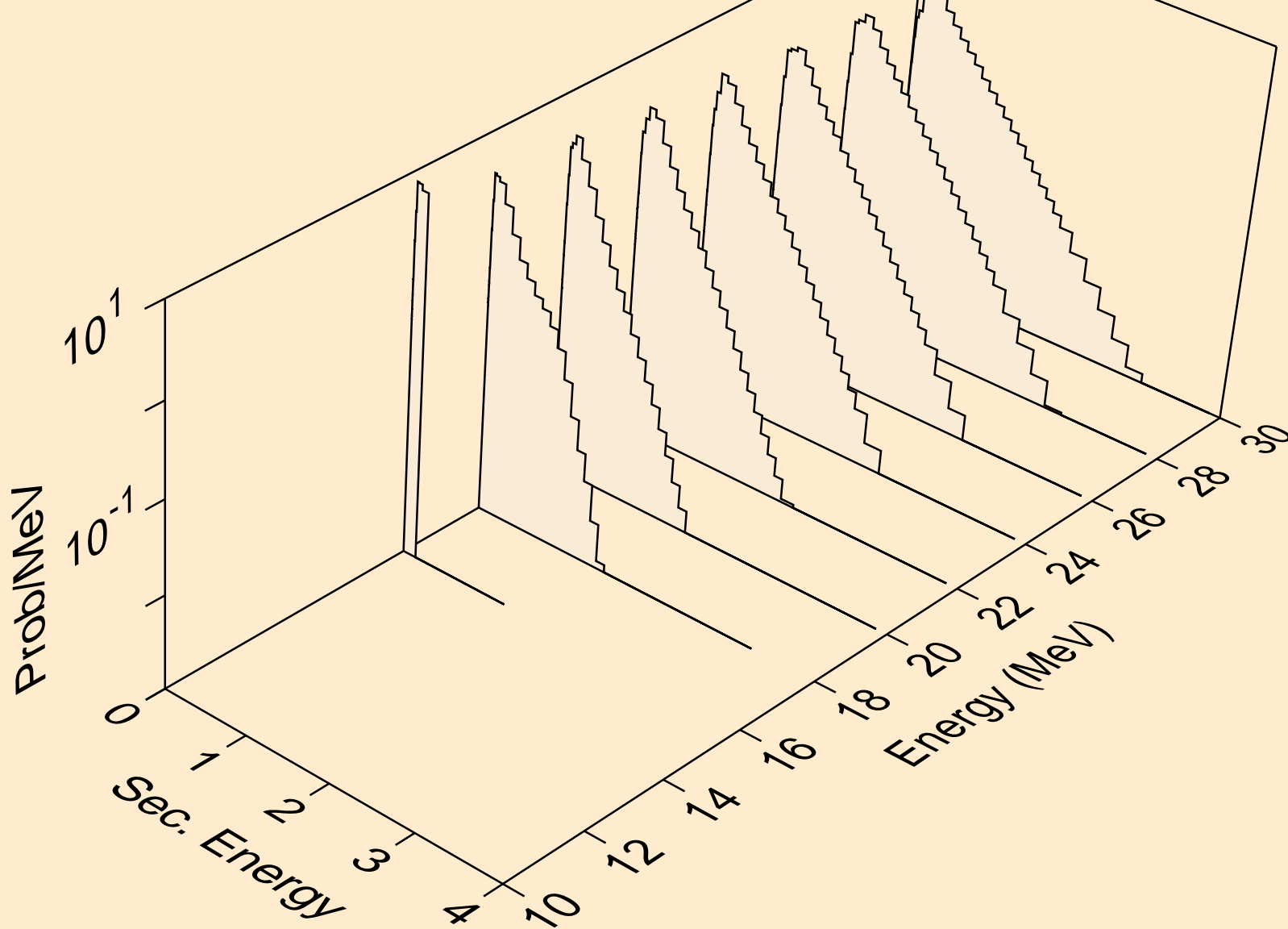
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,n*)d



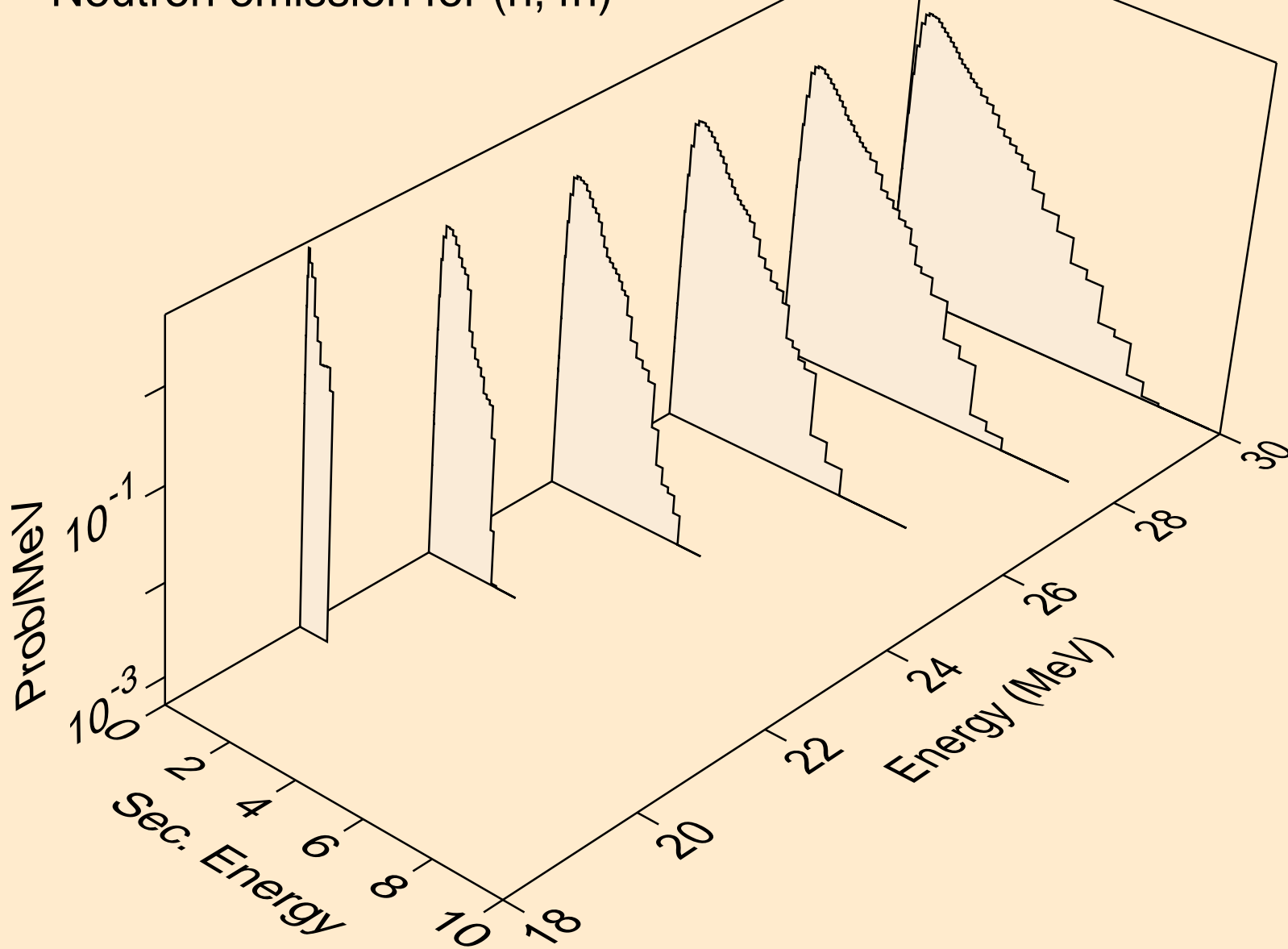
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,n*)t



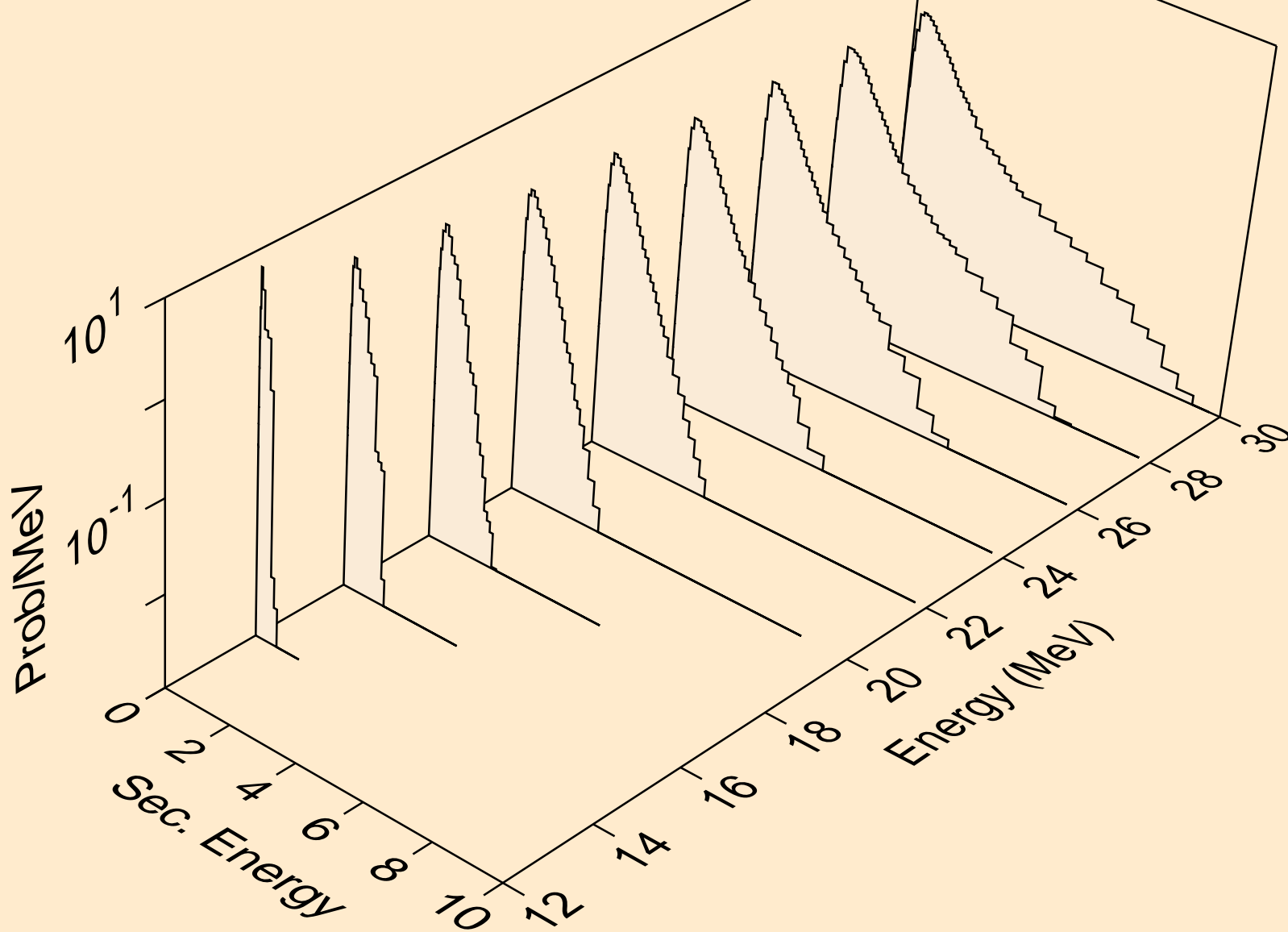
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,n*)he3



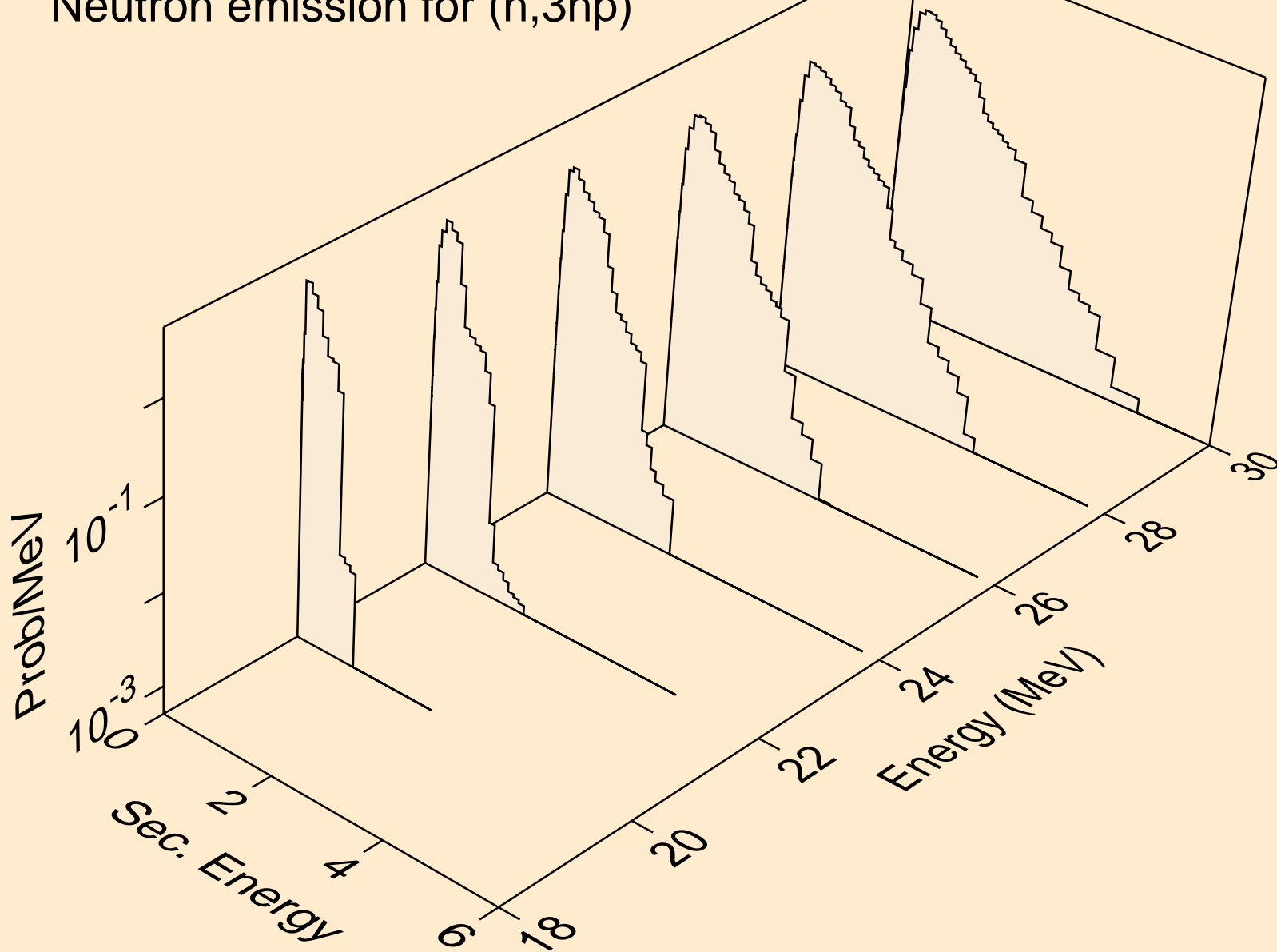
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,4n)



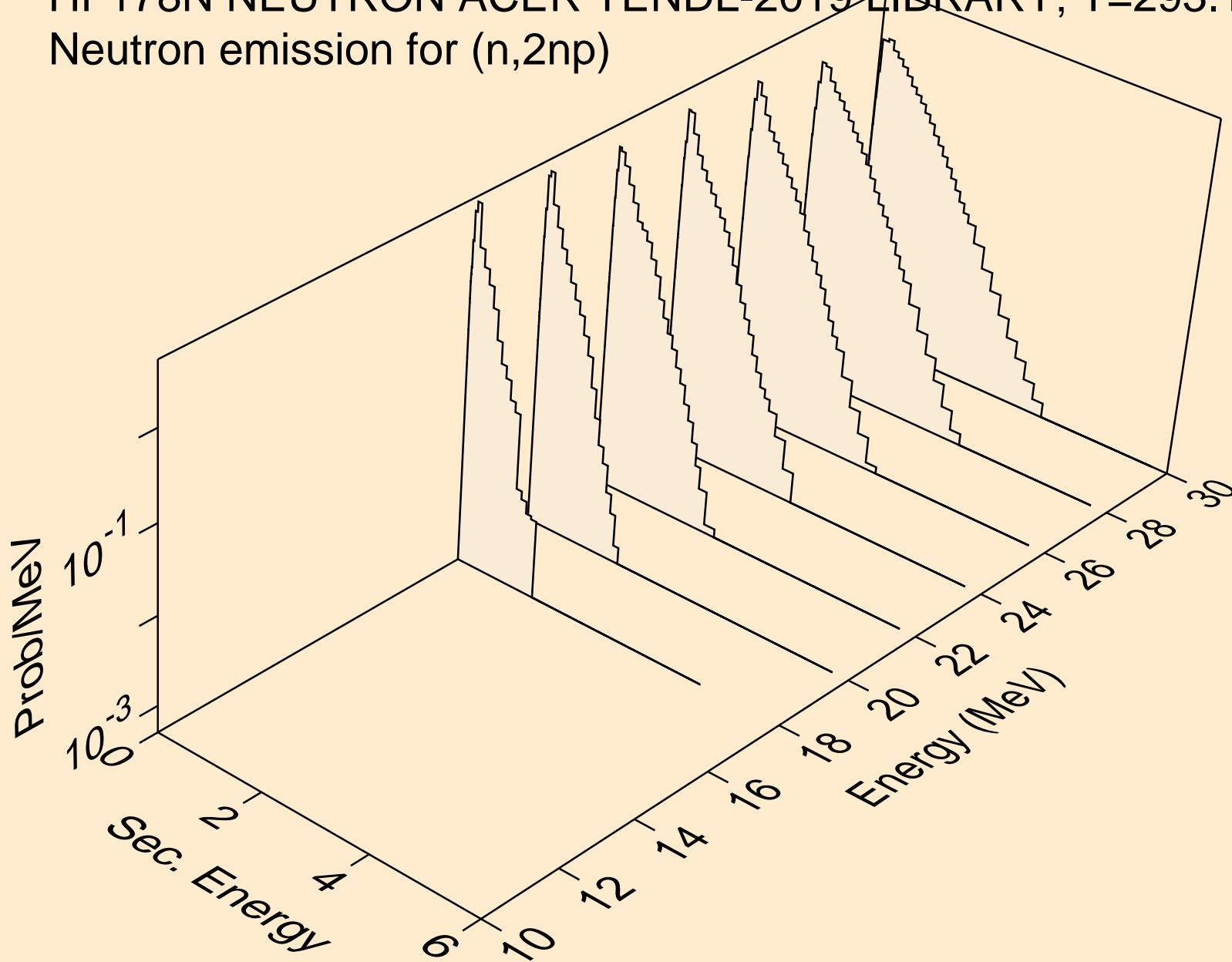
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,2np)



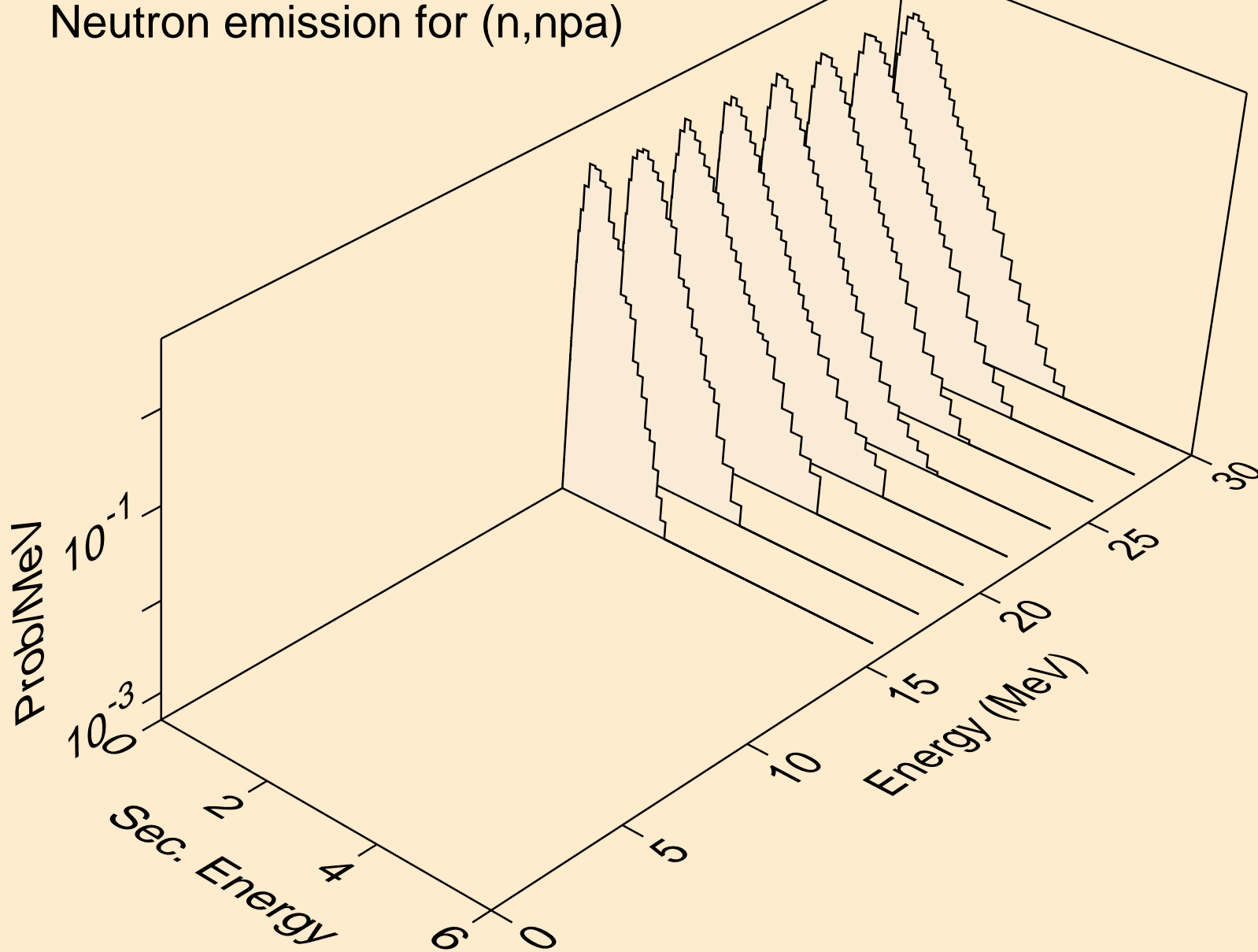
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Neutron emission for (n,3np)



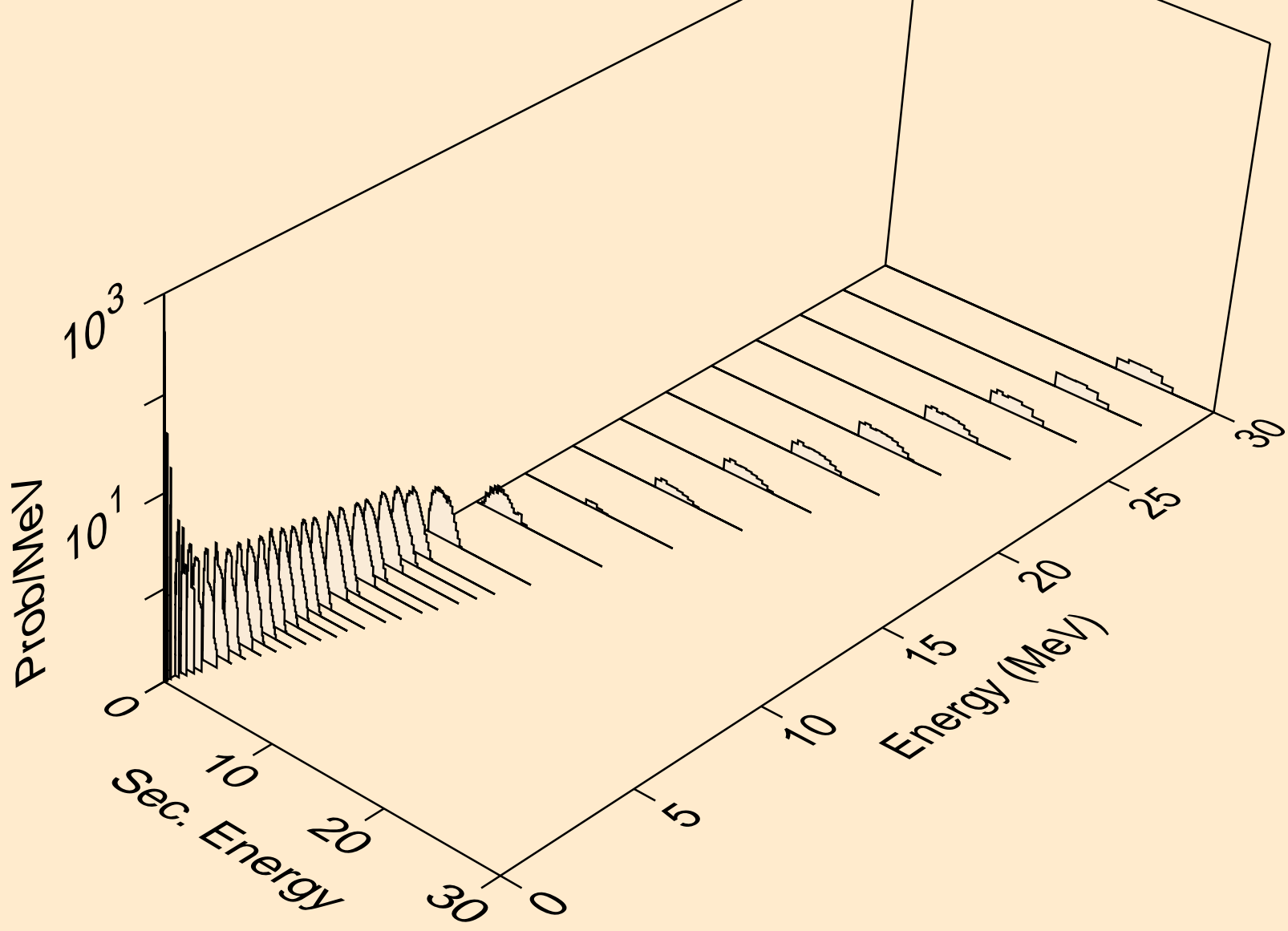
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Neutron emission for (n,2np)



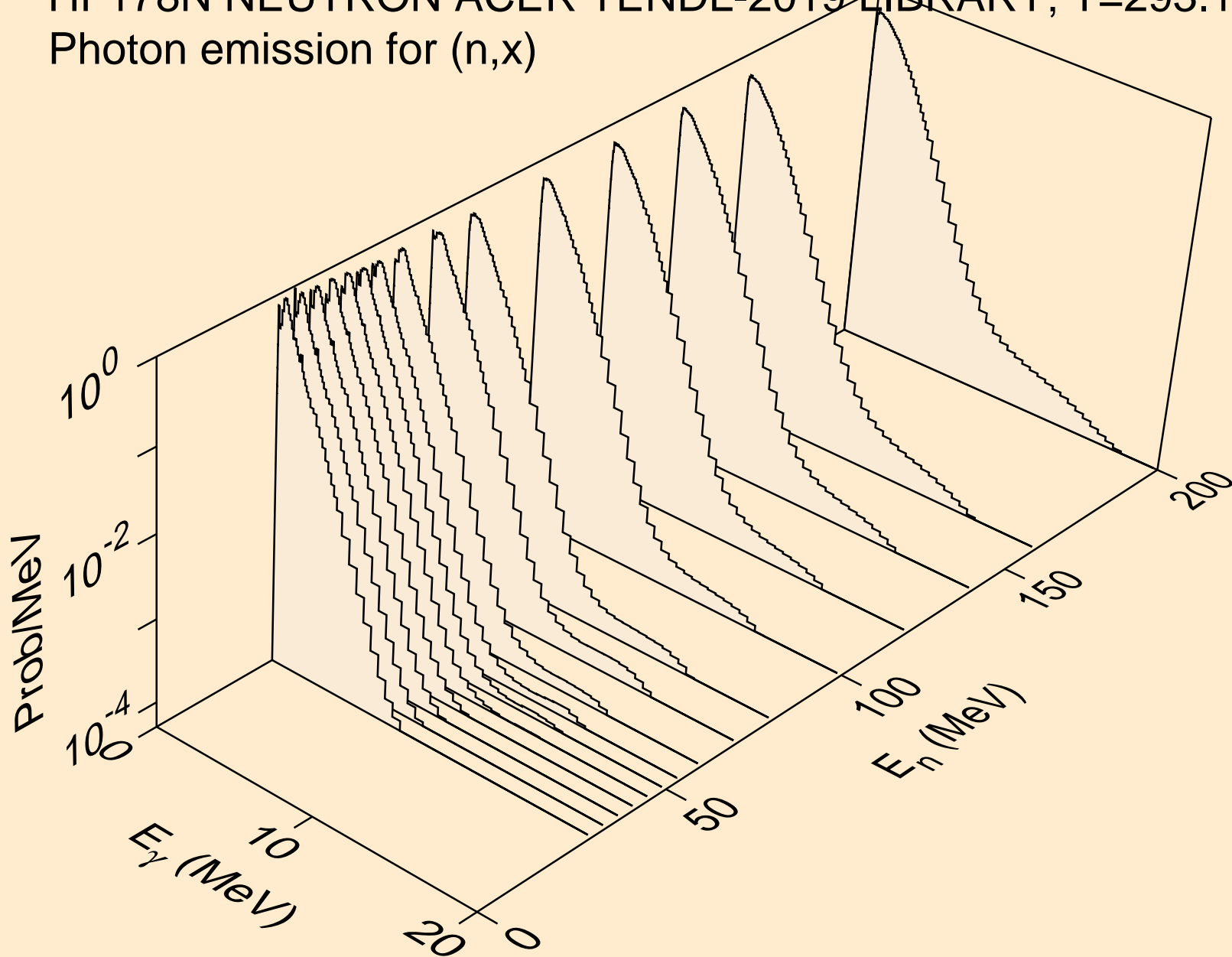
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Neutron emission for (n,npa)



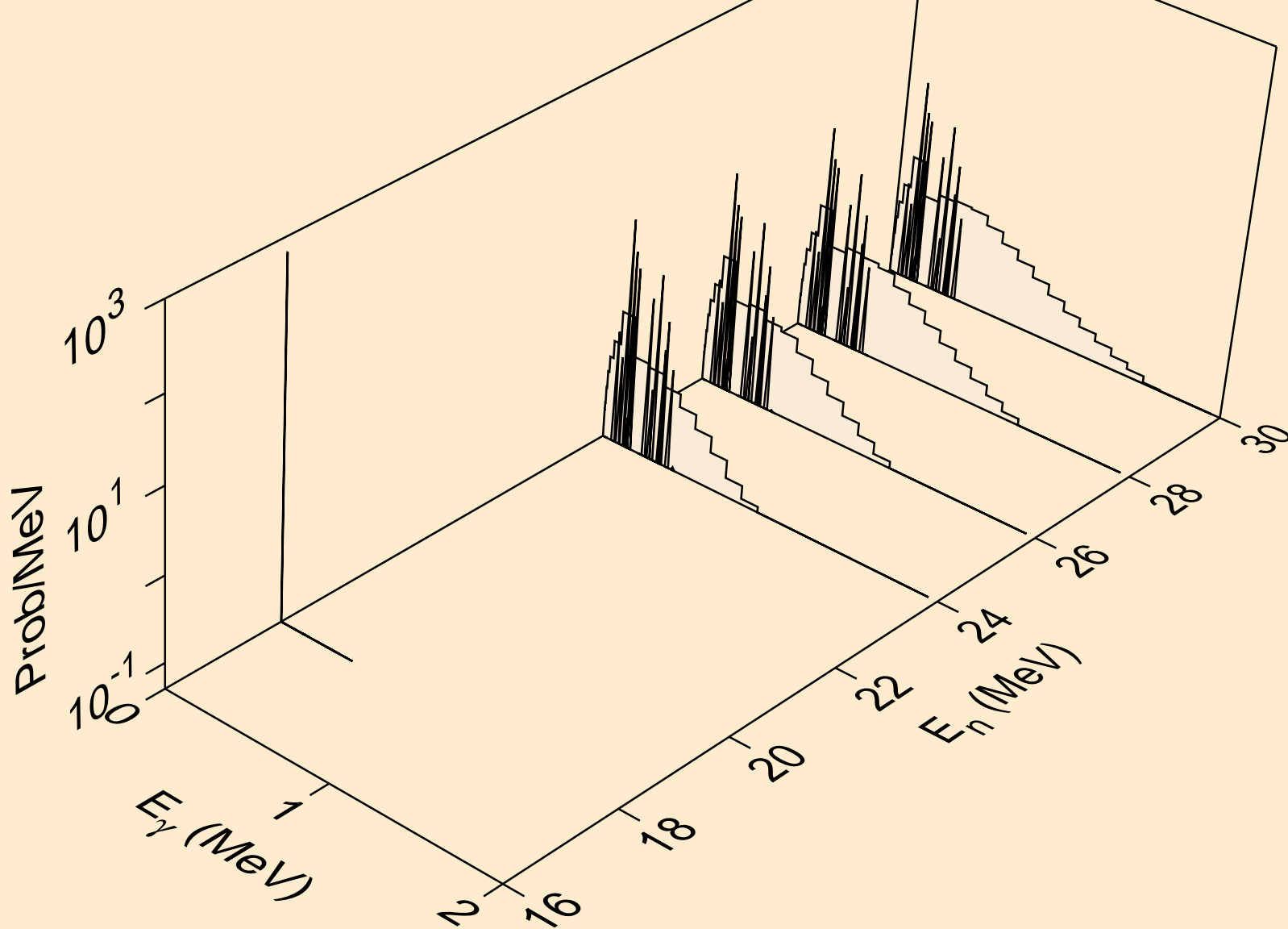
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,n*c)



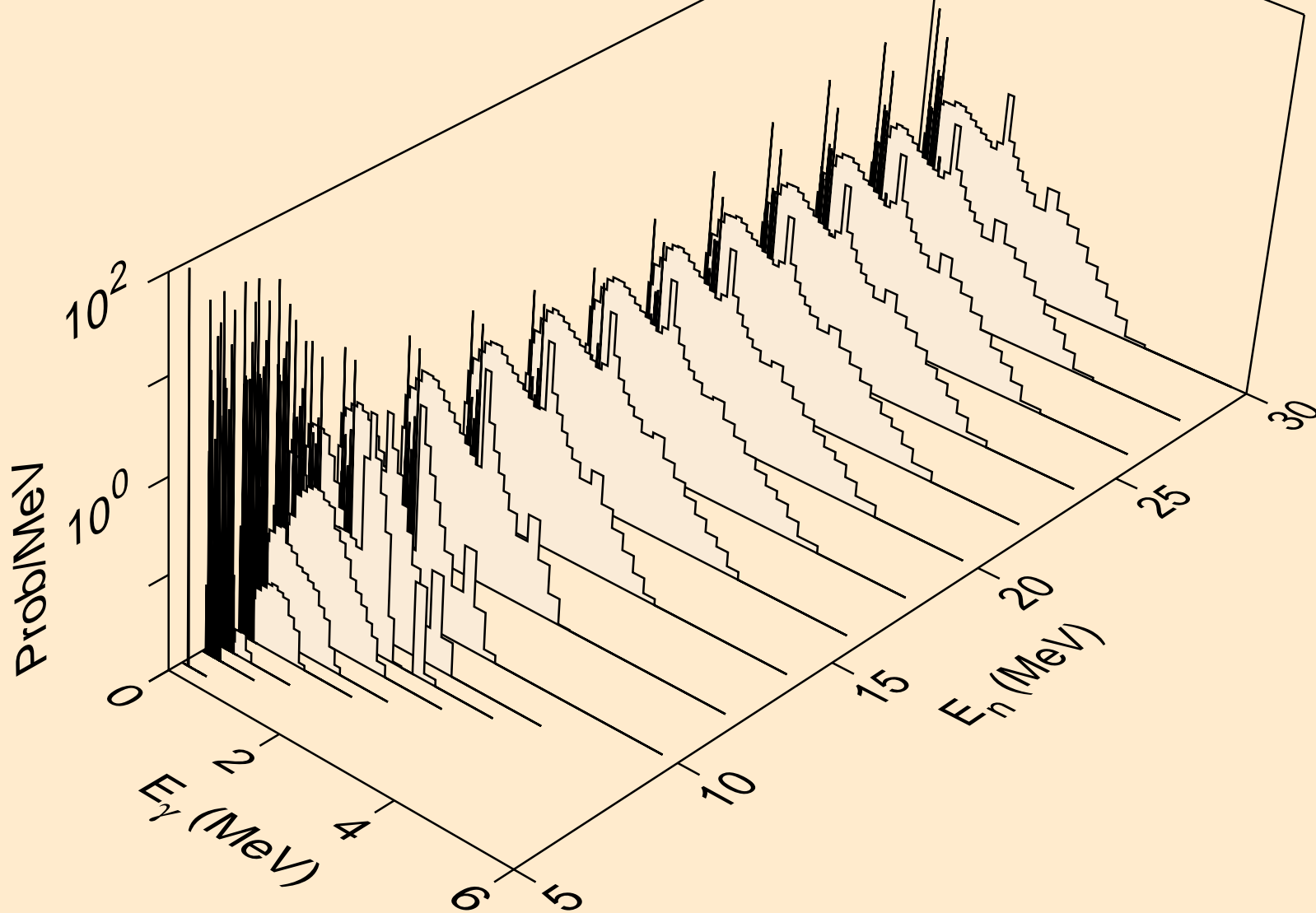
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Photon emission for (n,x)



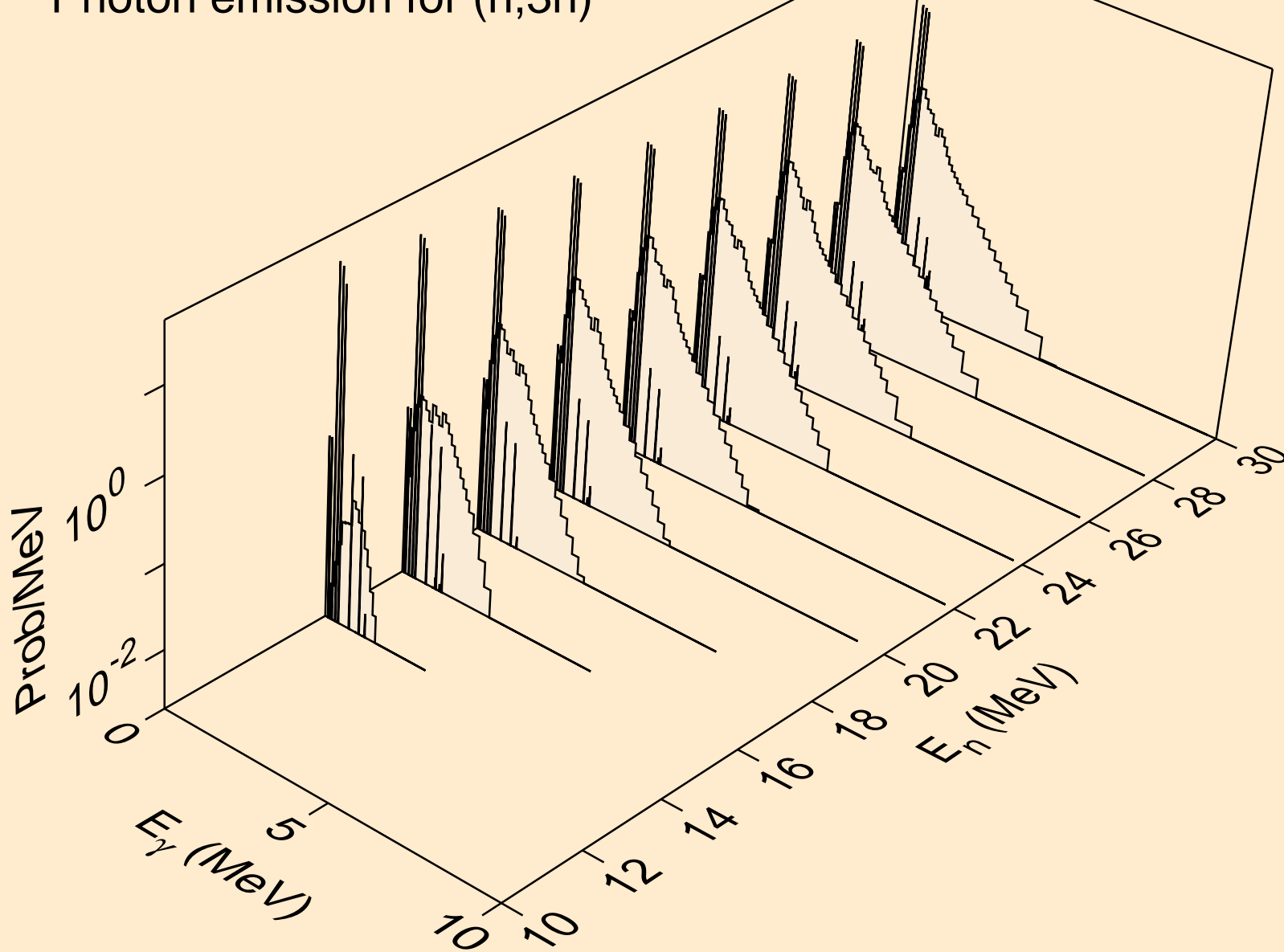
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Photon emission for (n,2nd)



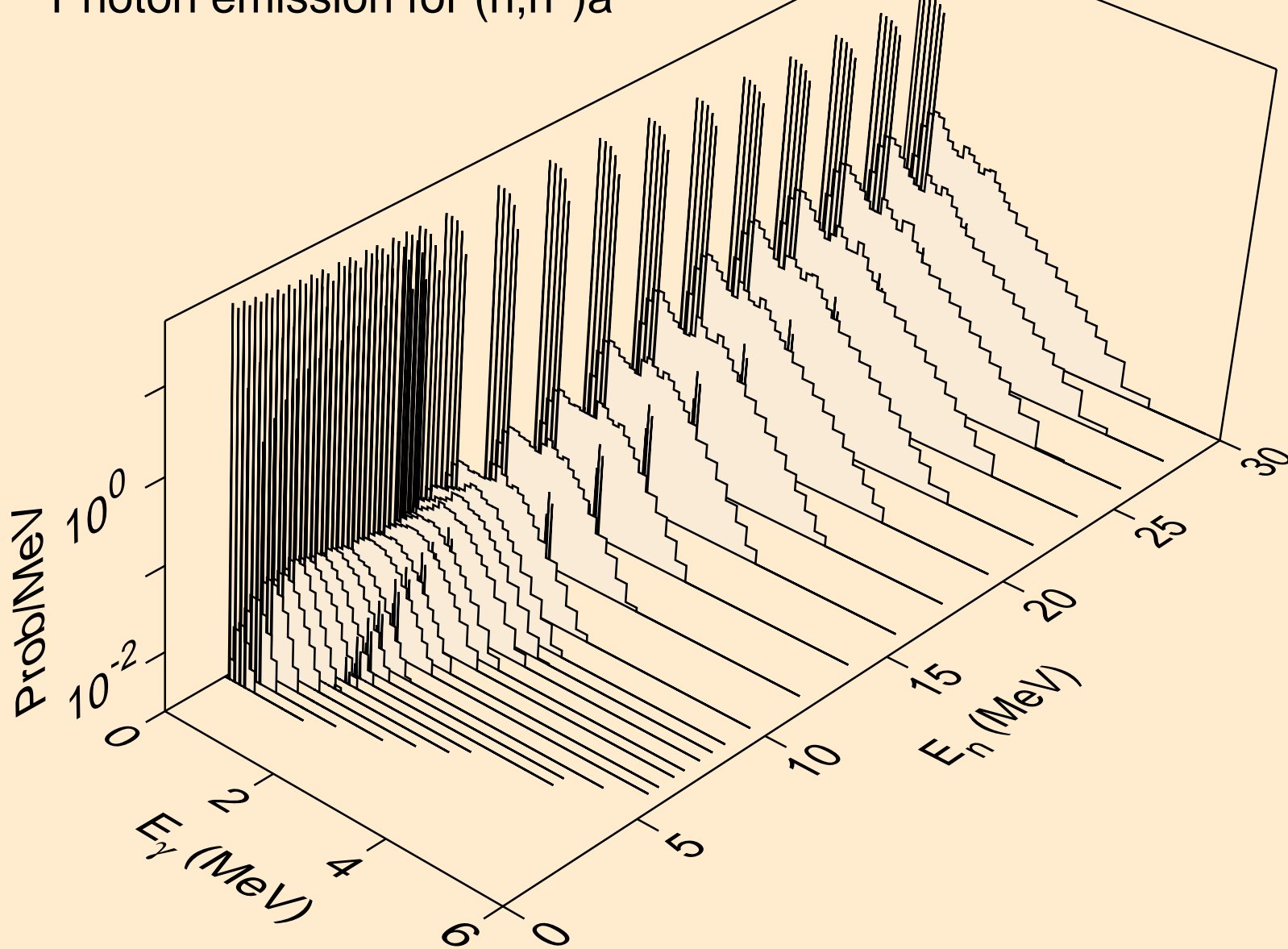
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Photon emission for (n,2n)



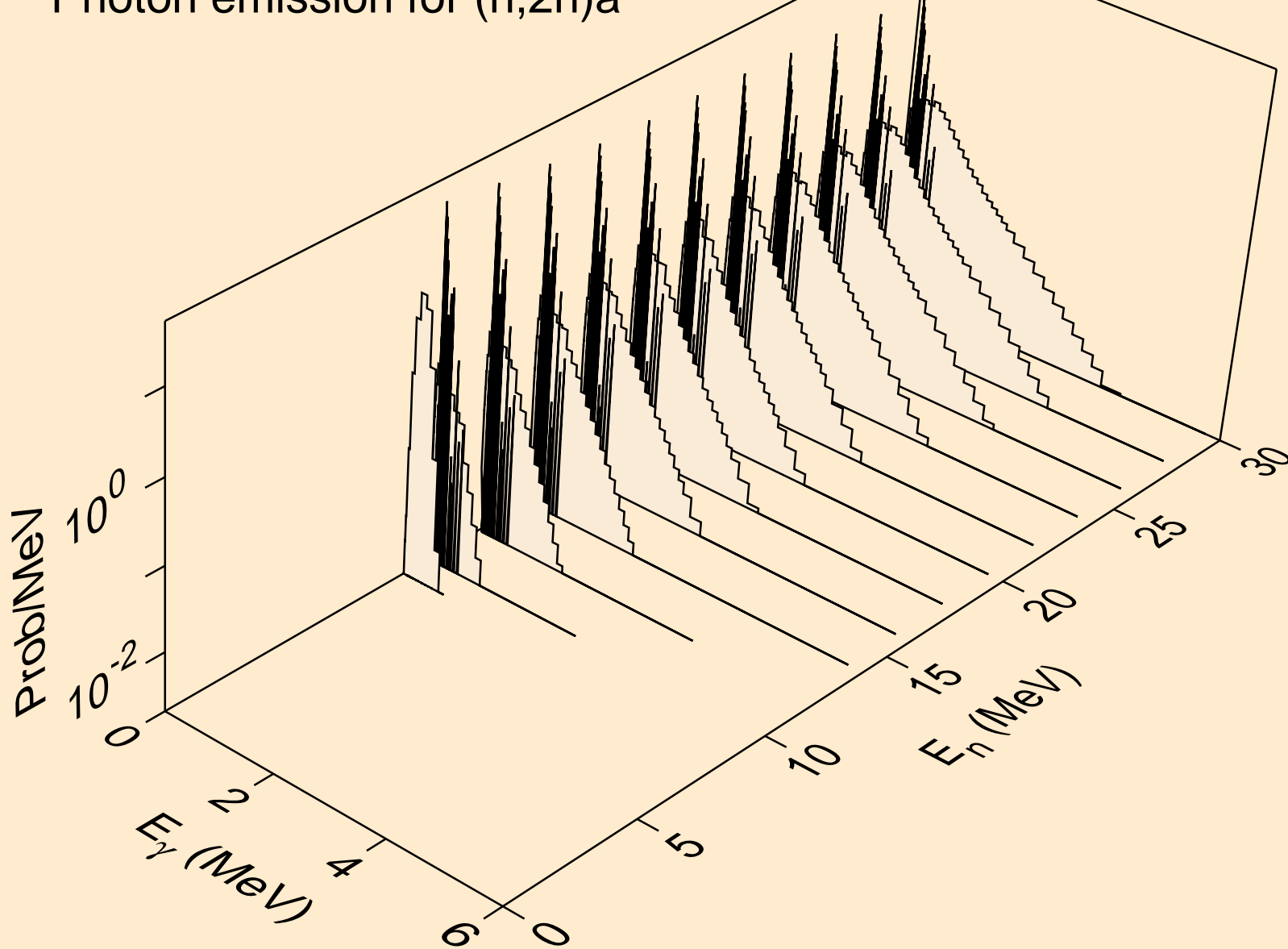
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Photon emission for (n,3n)



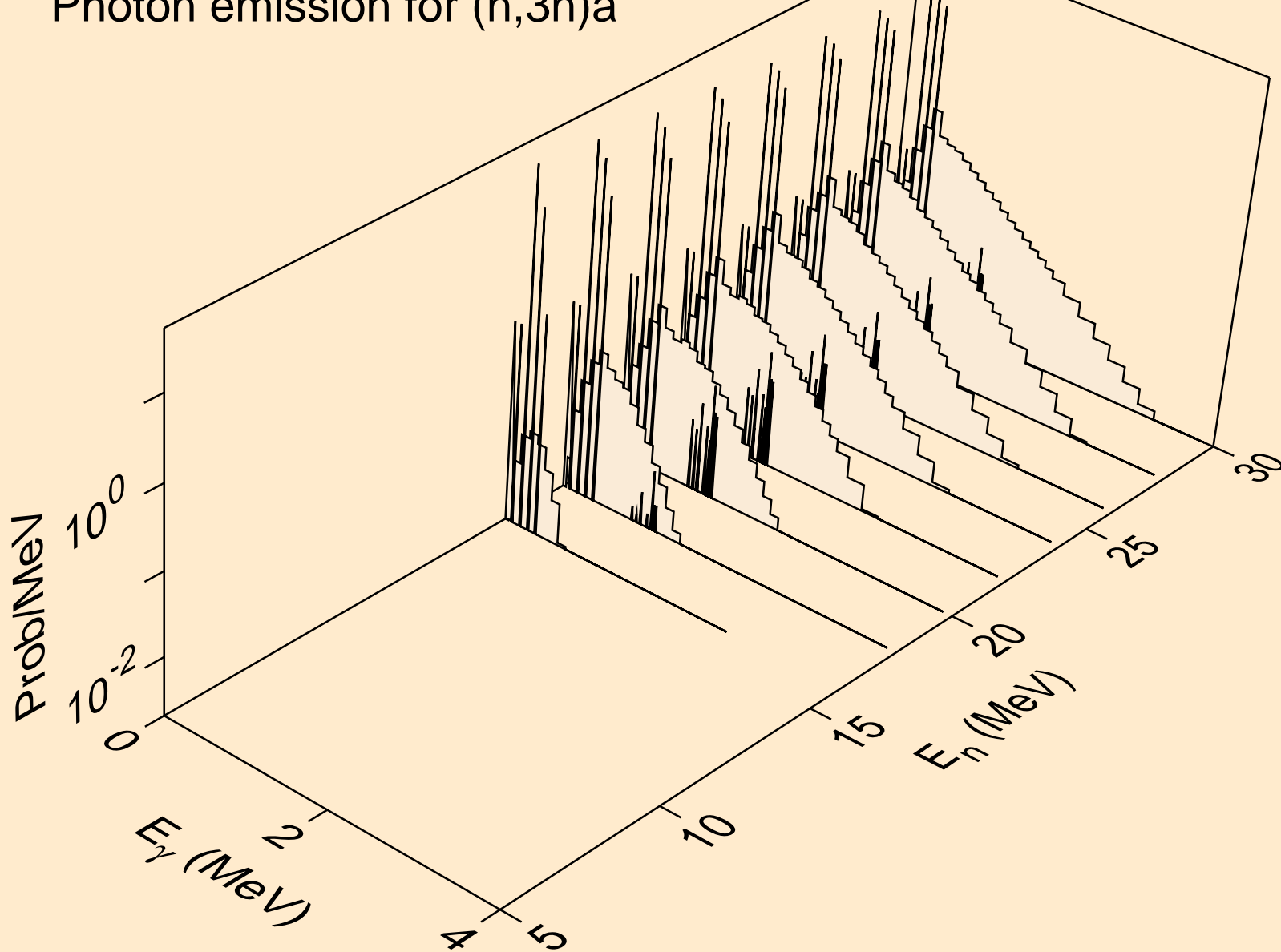
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Photon emission for (n,n*)a



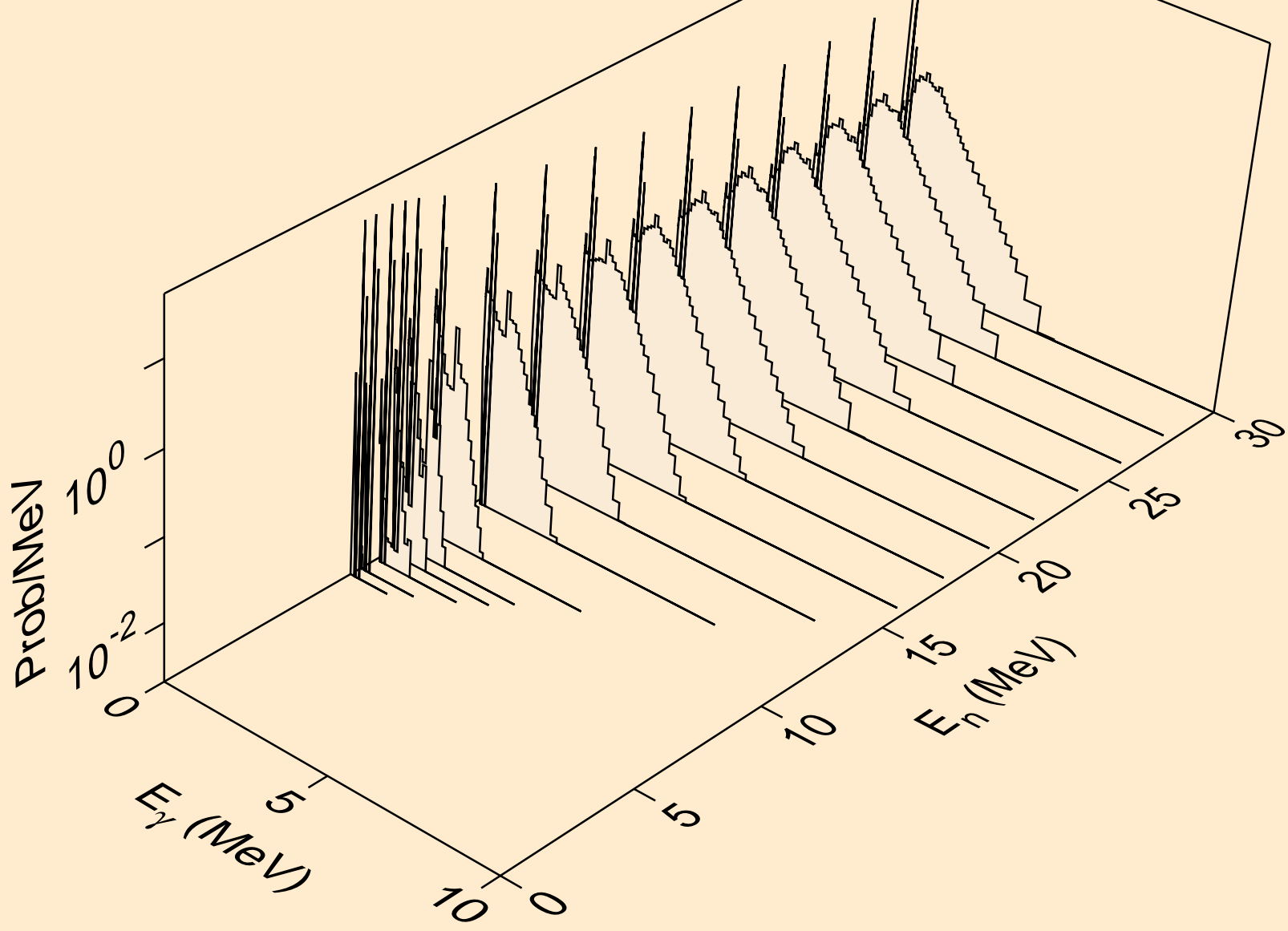
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Photon emission for (n,2n)a



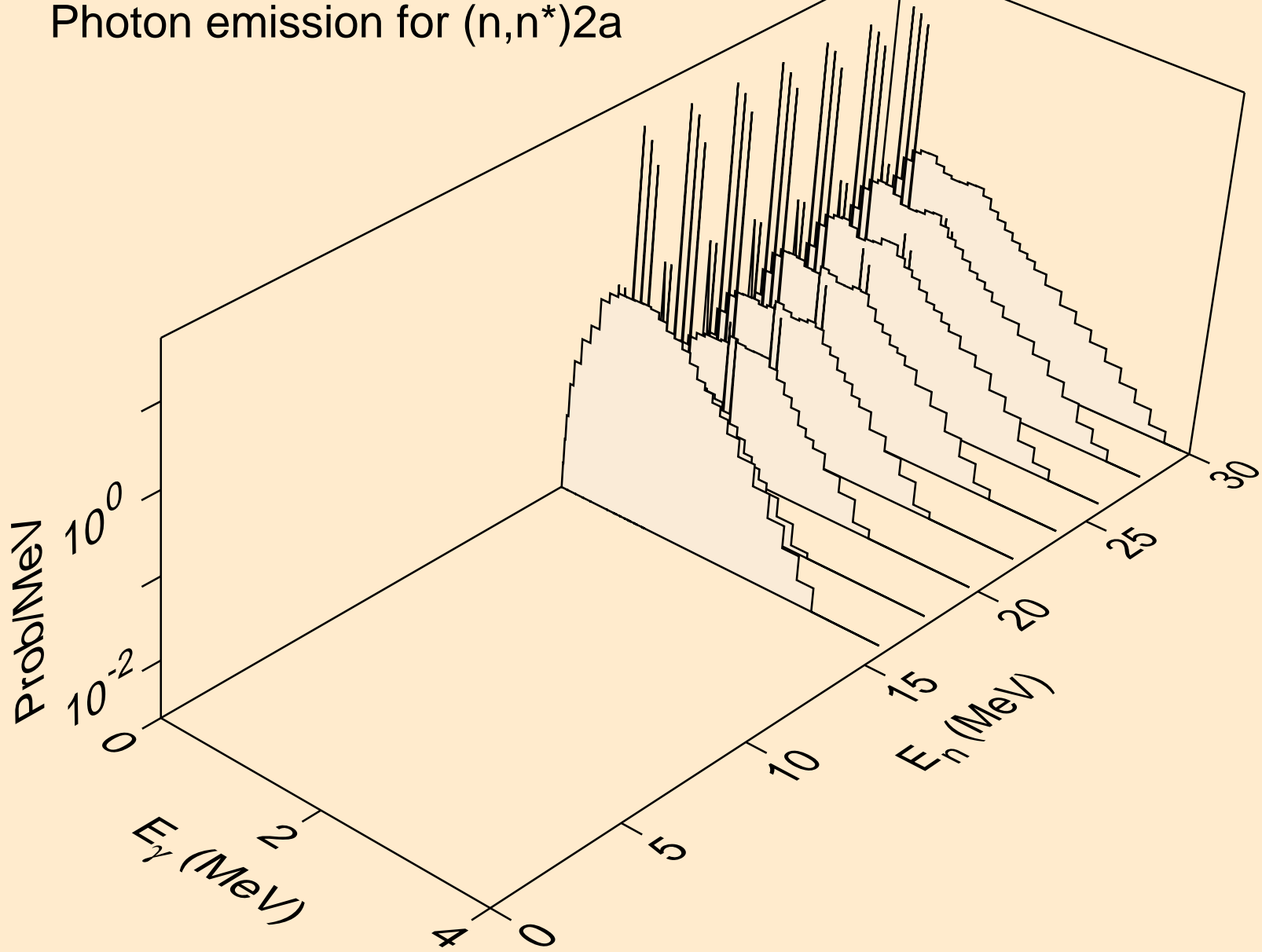
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Photon emission for (n,3n)a



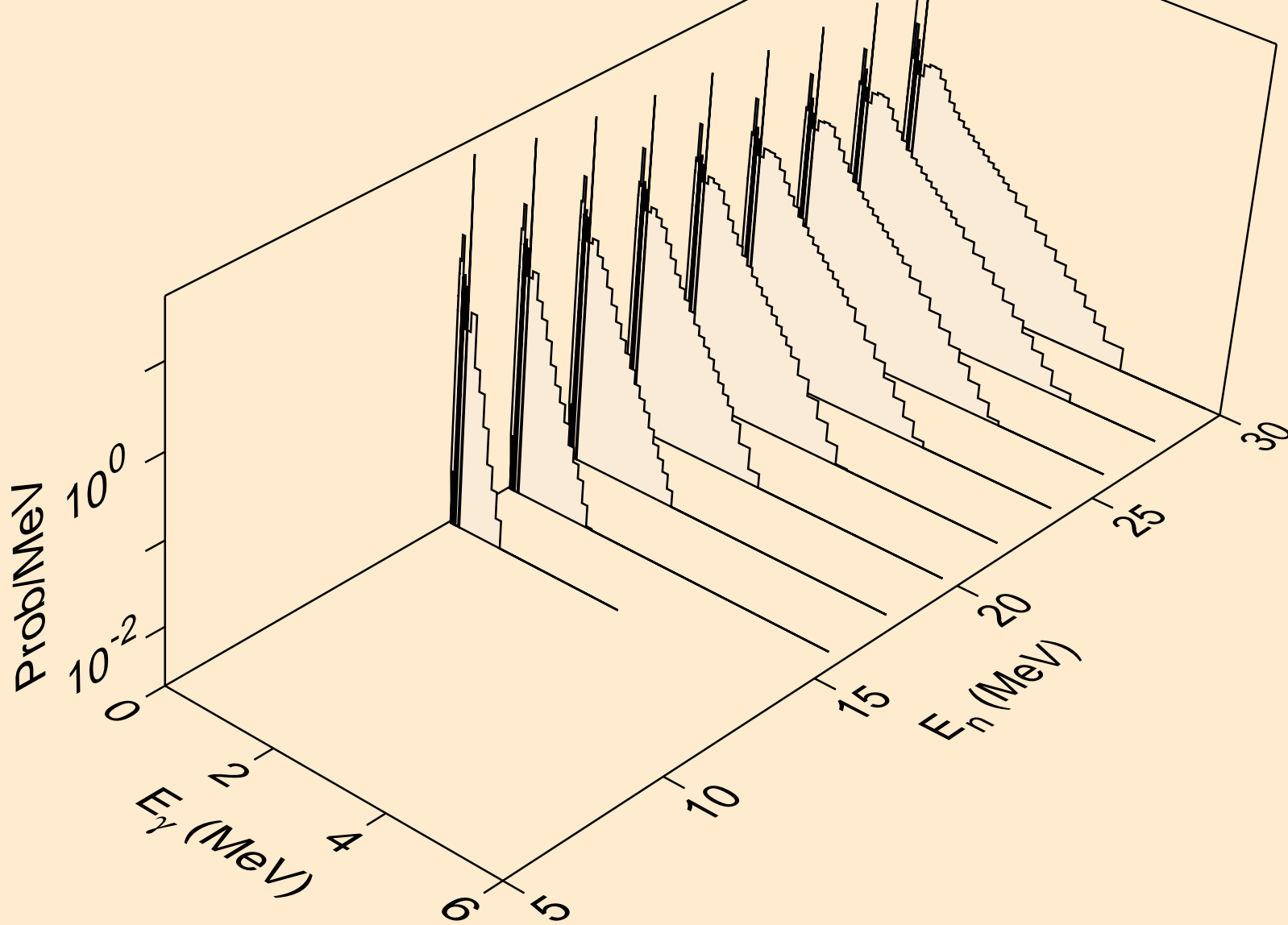
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*)p



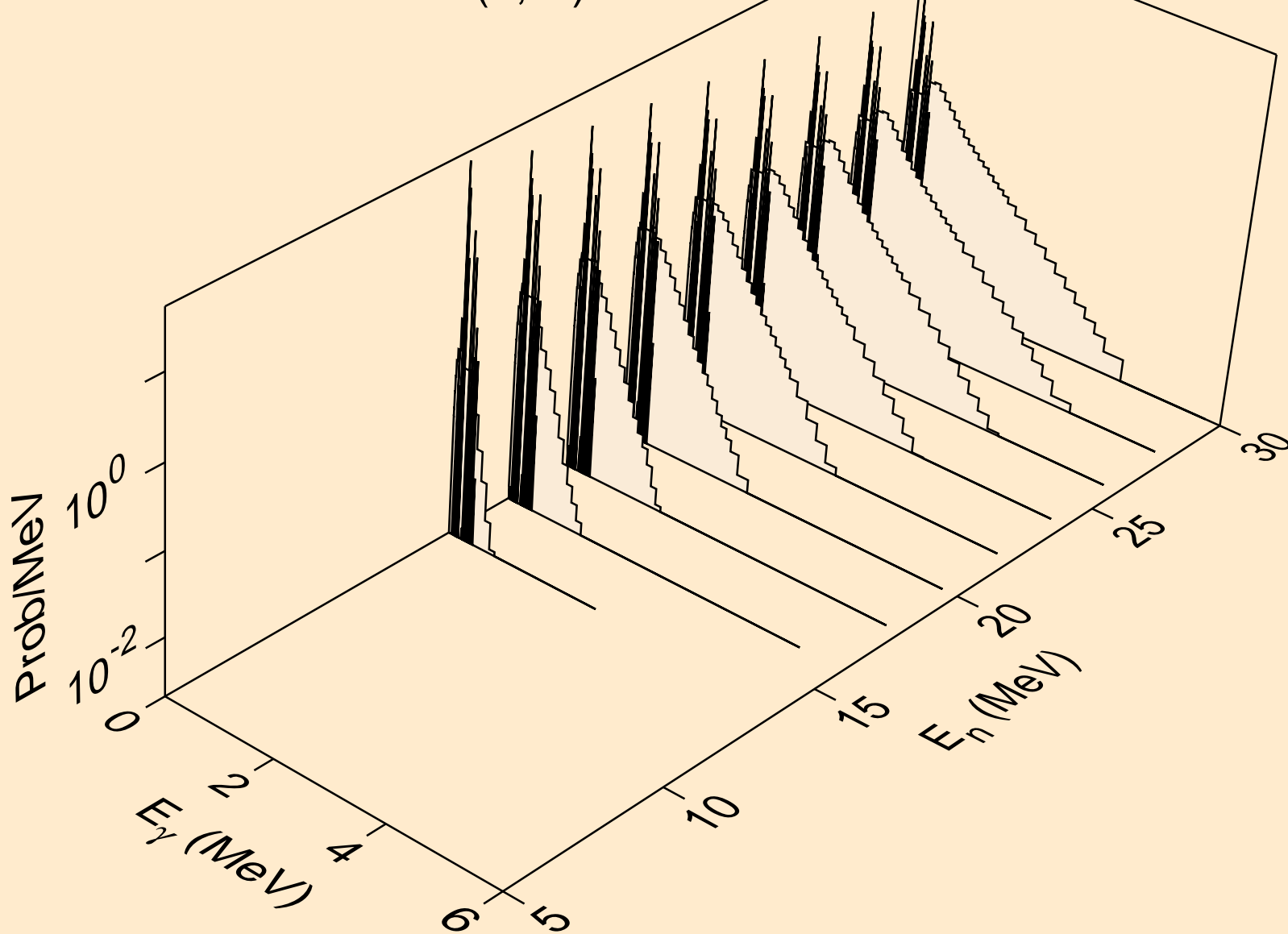
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Photon emission for (n,n*)2a



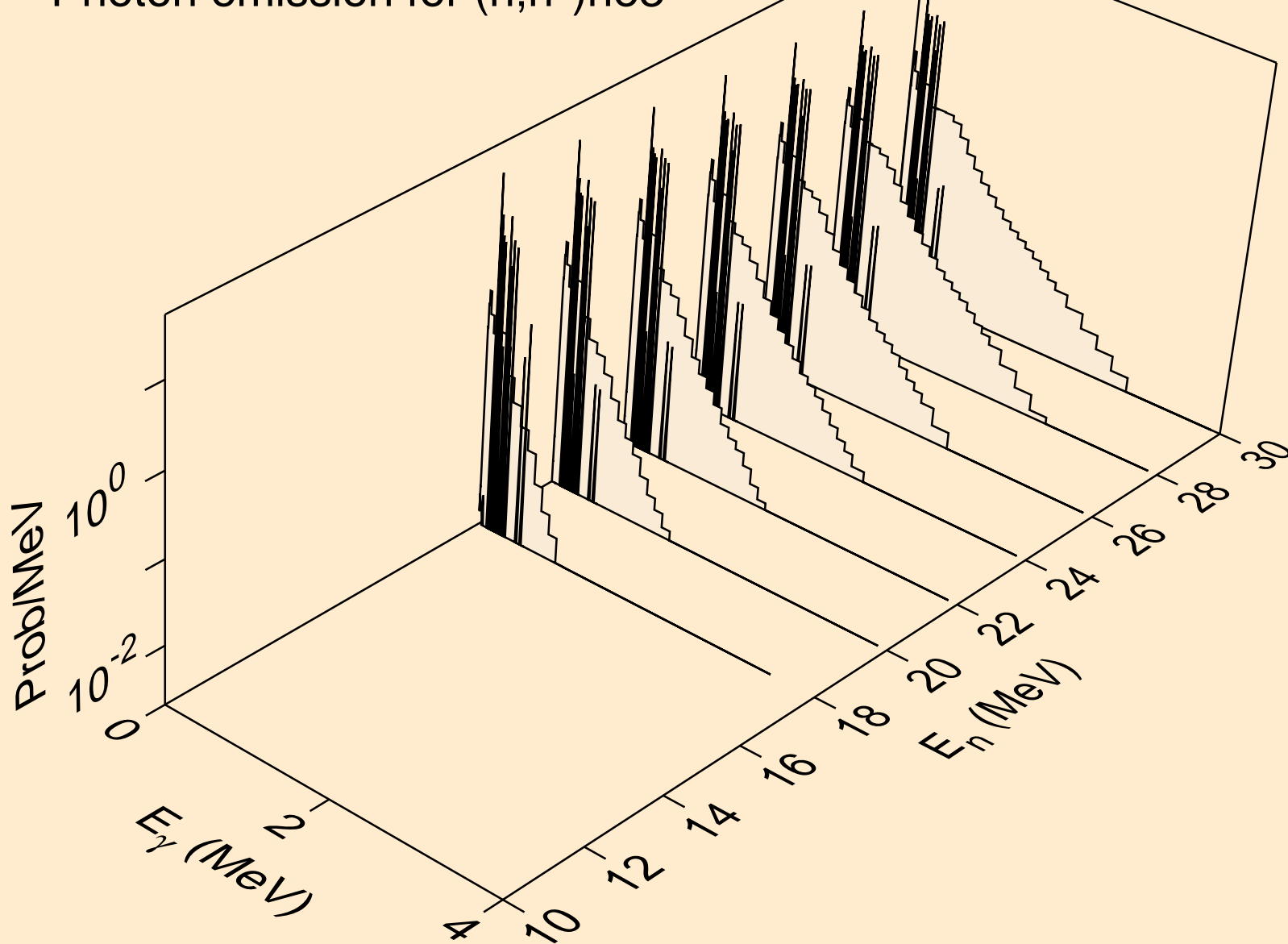
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*)d



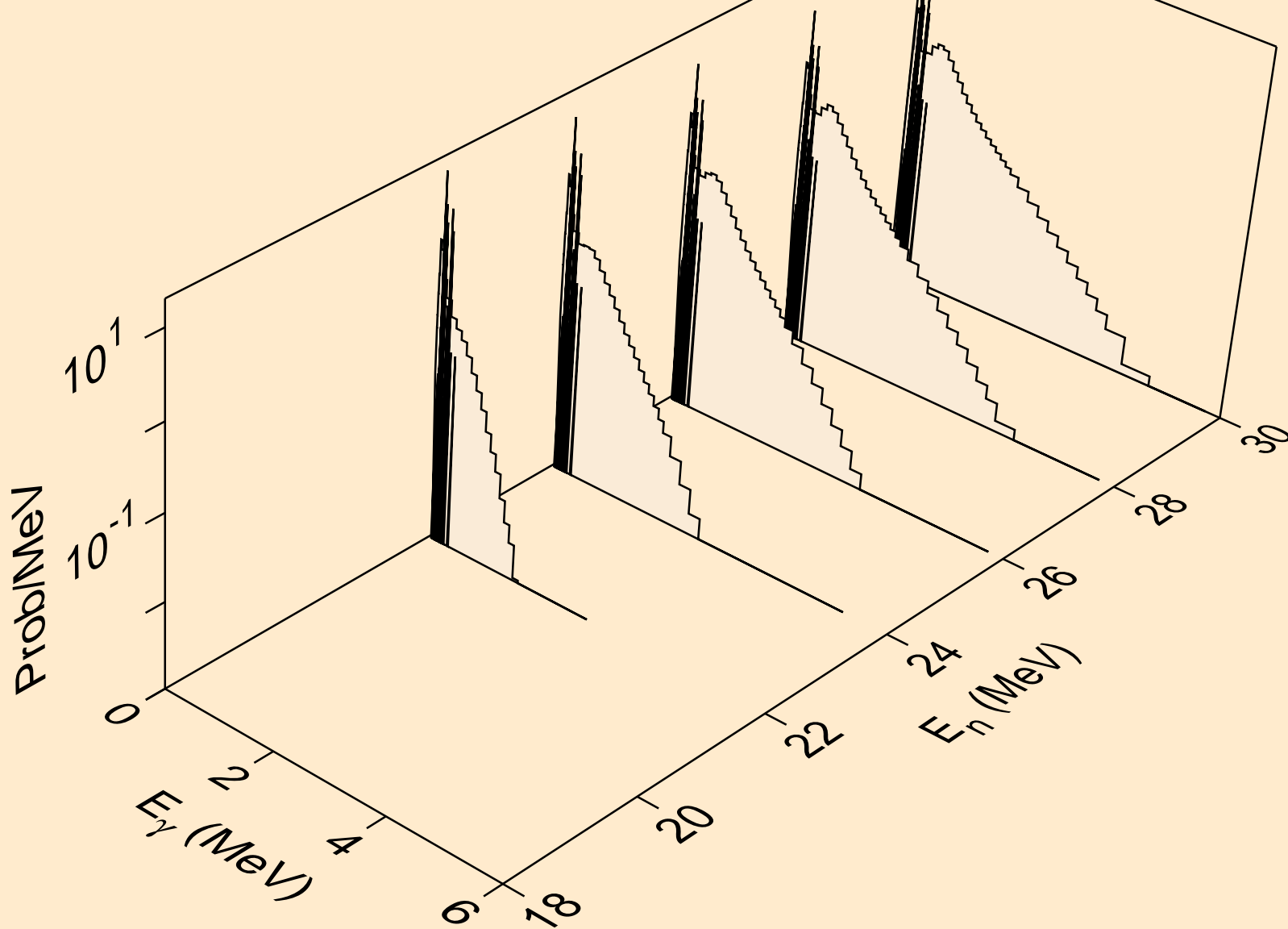
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*)t



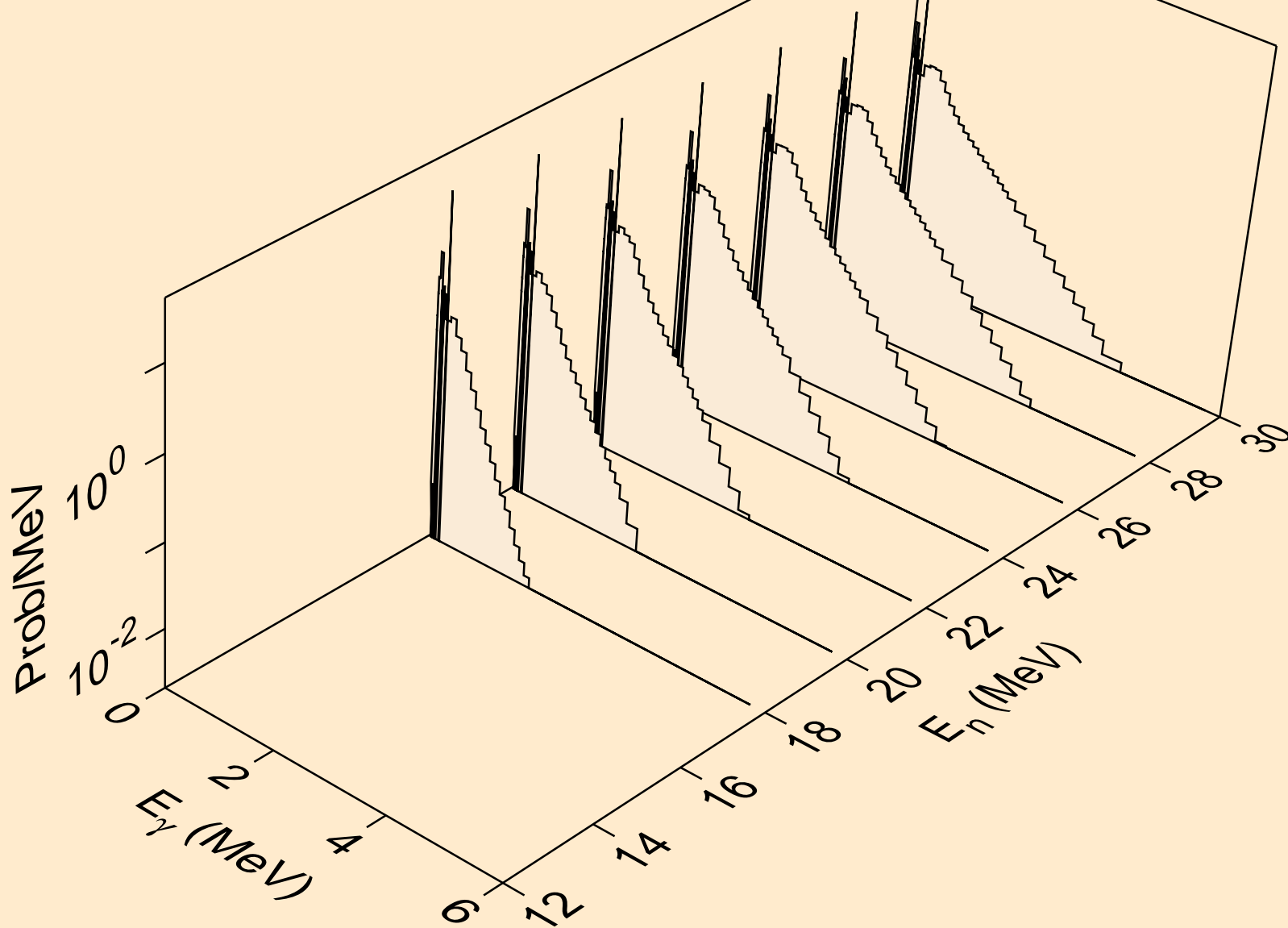
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*)he3



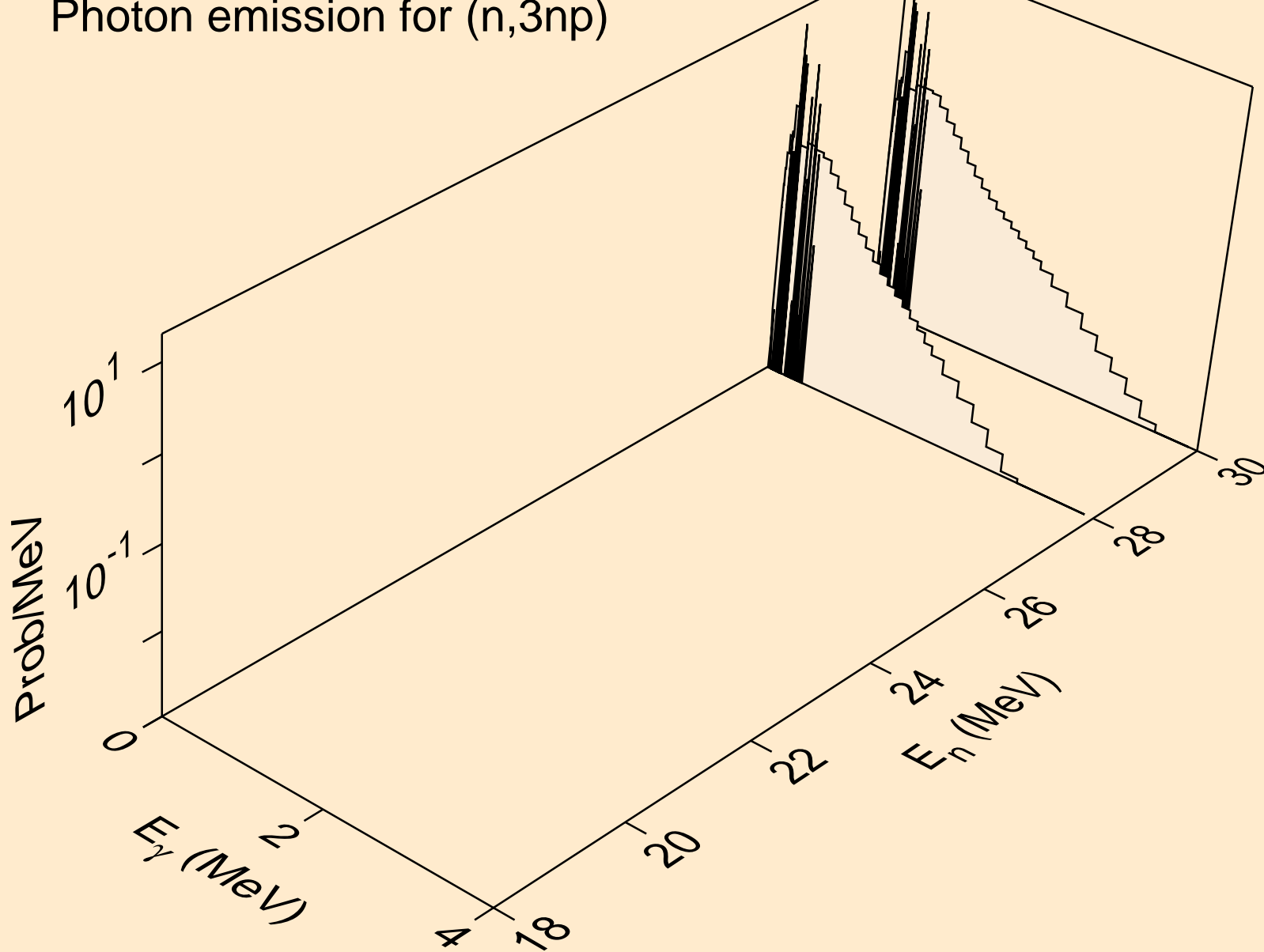
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,4n)



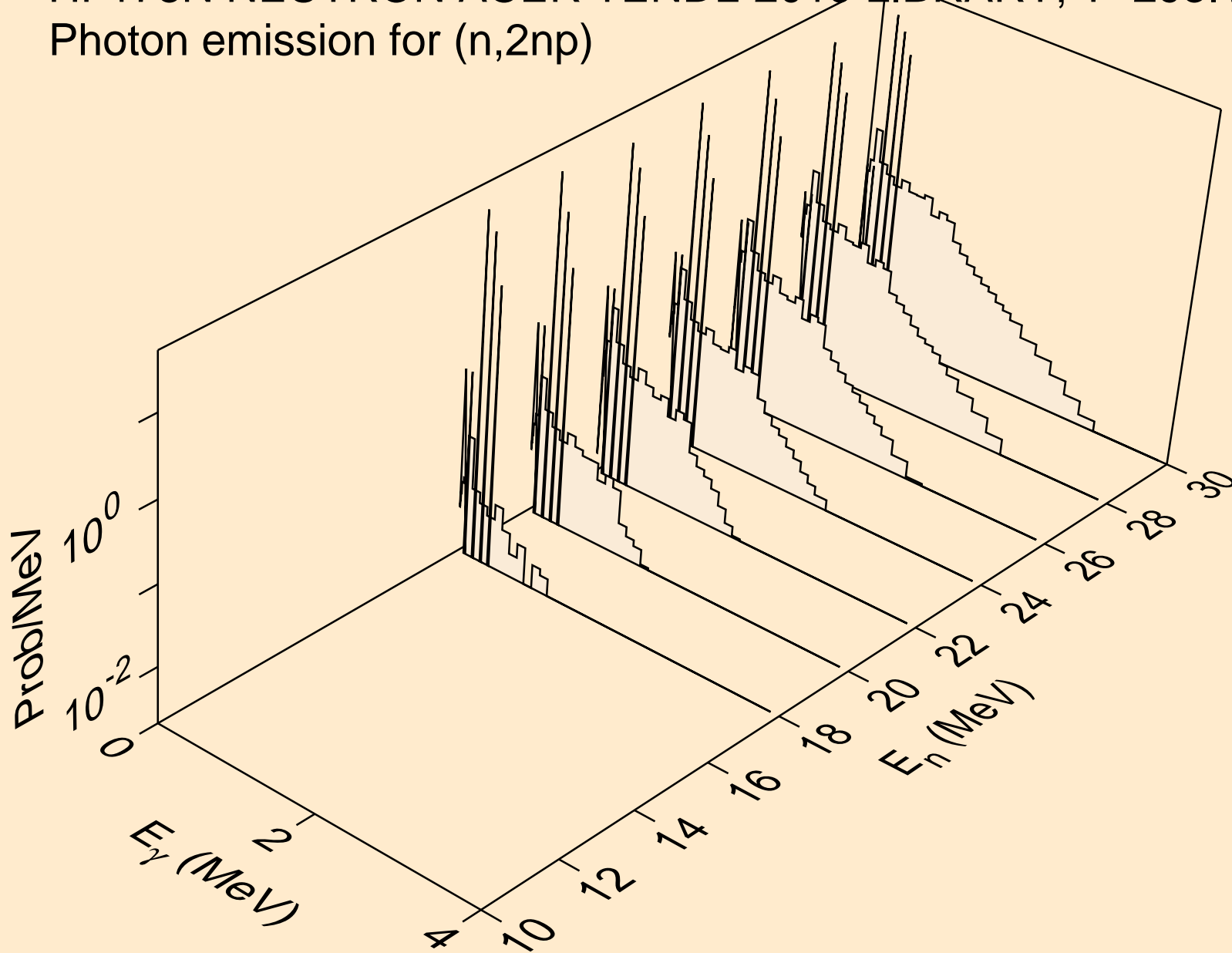
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,2np)



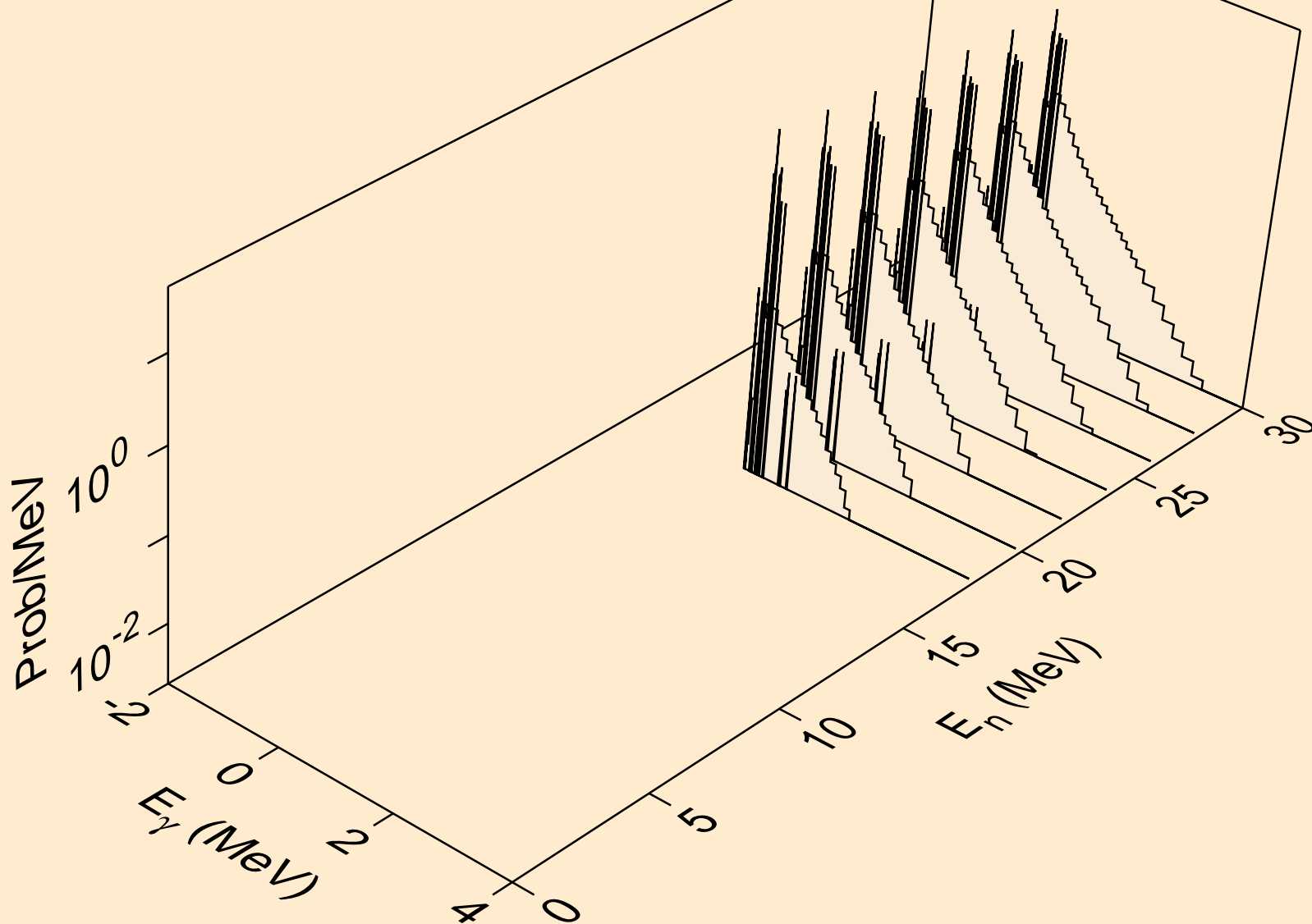
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,3np)



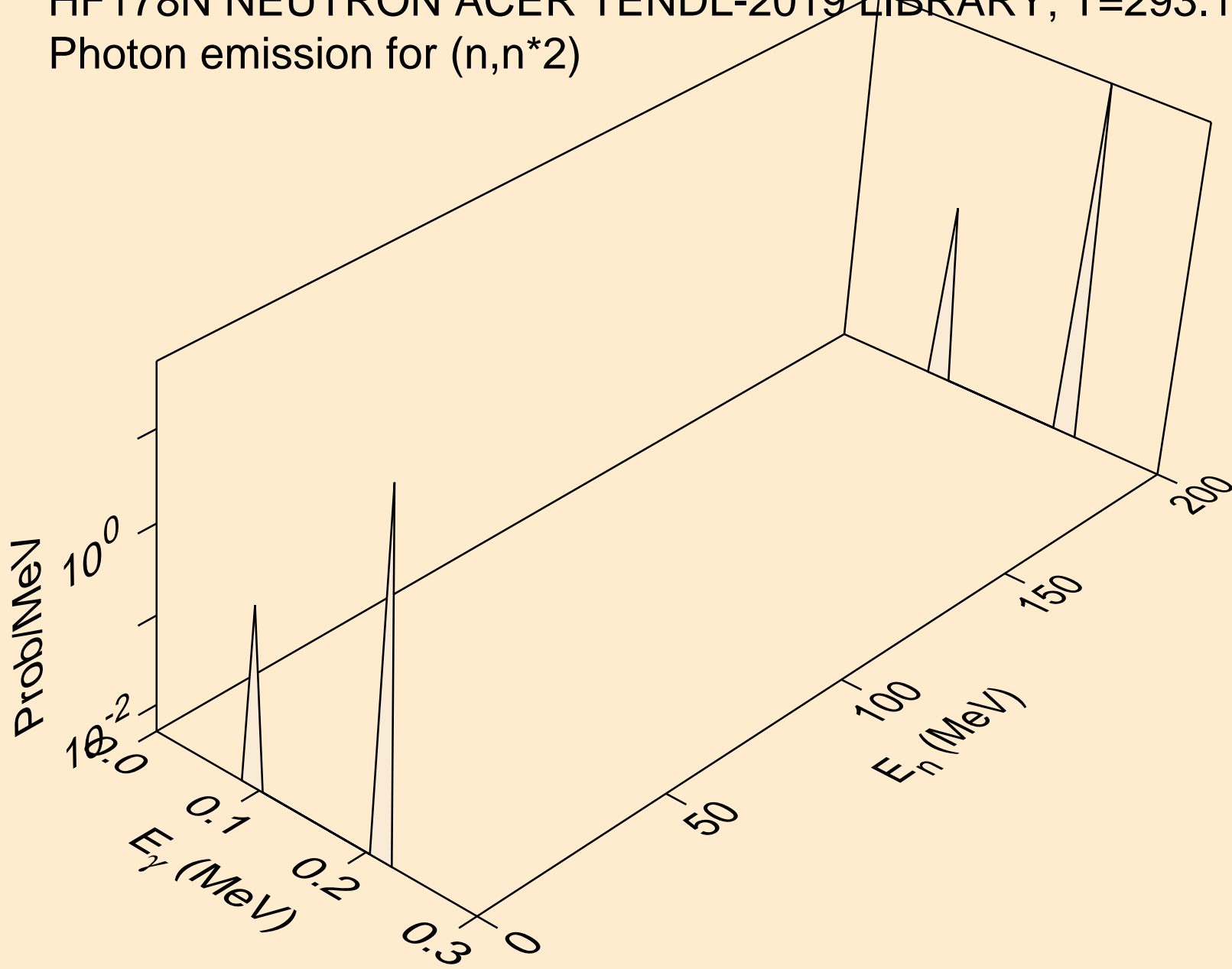
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,2np)



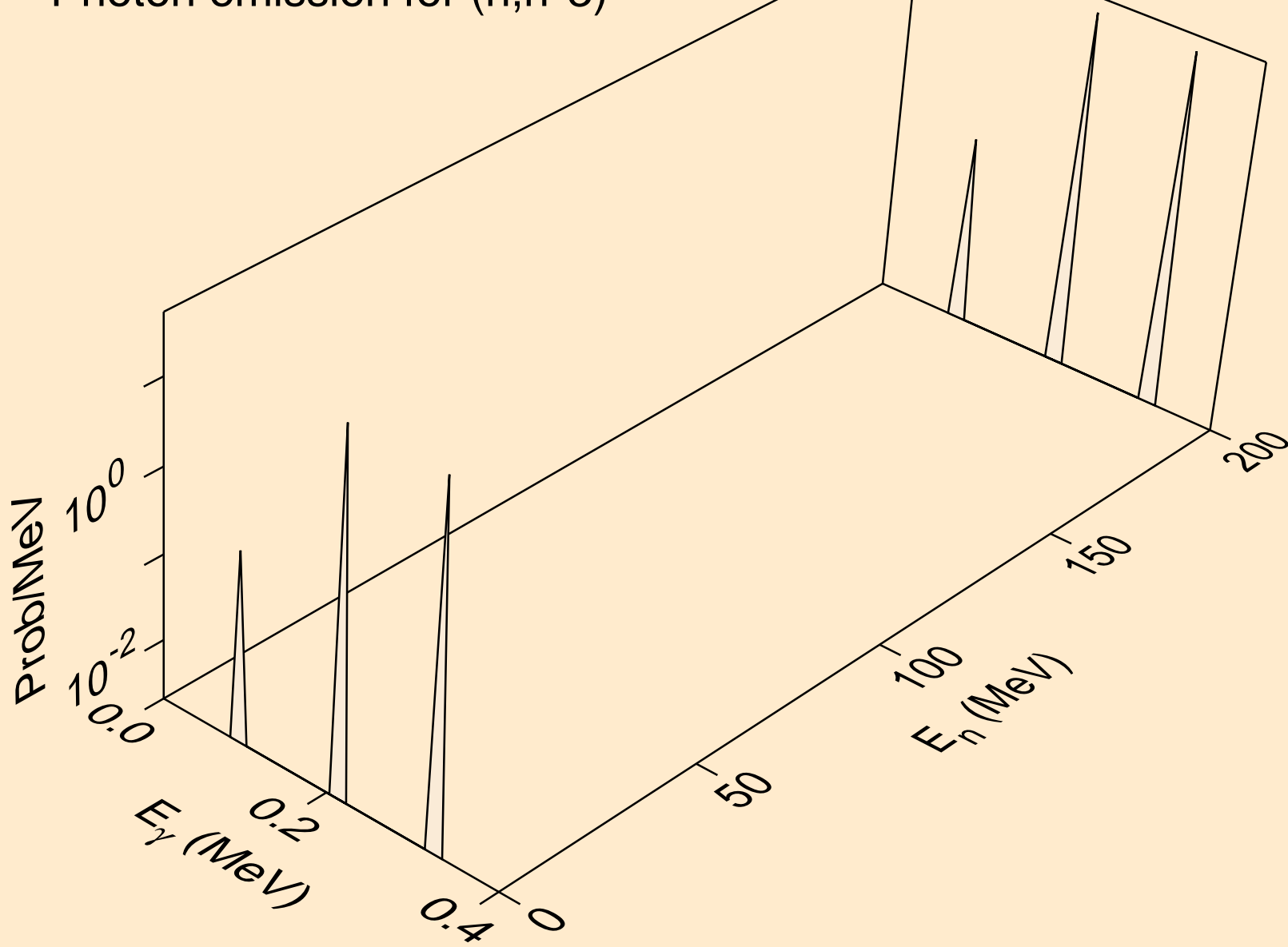
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Photon emission for (n,npa)



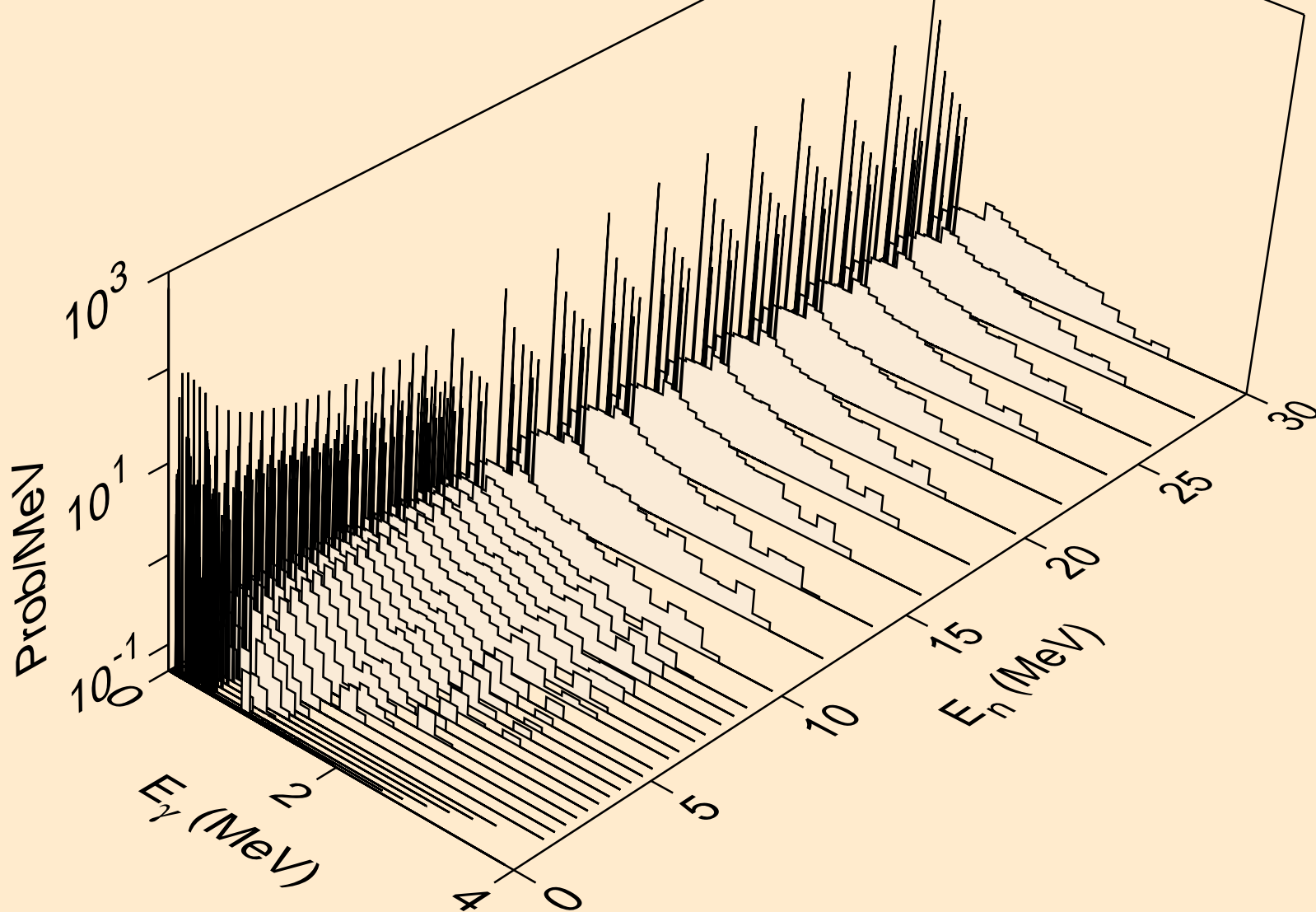
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*2)



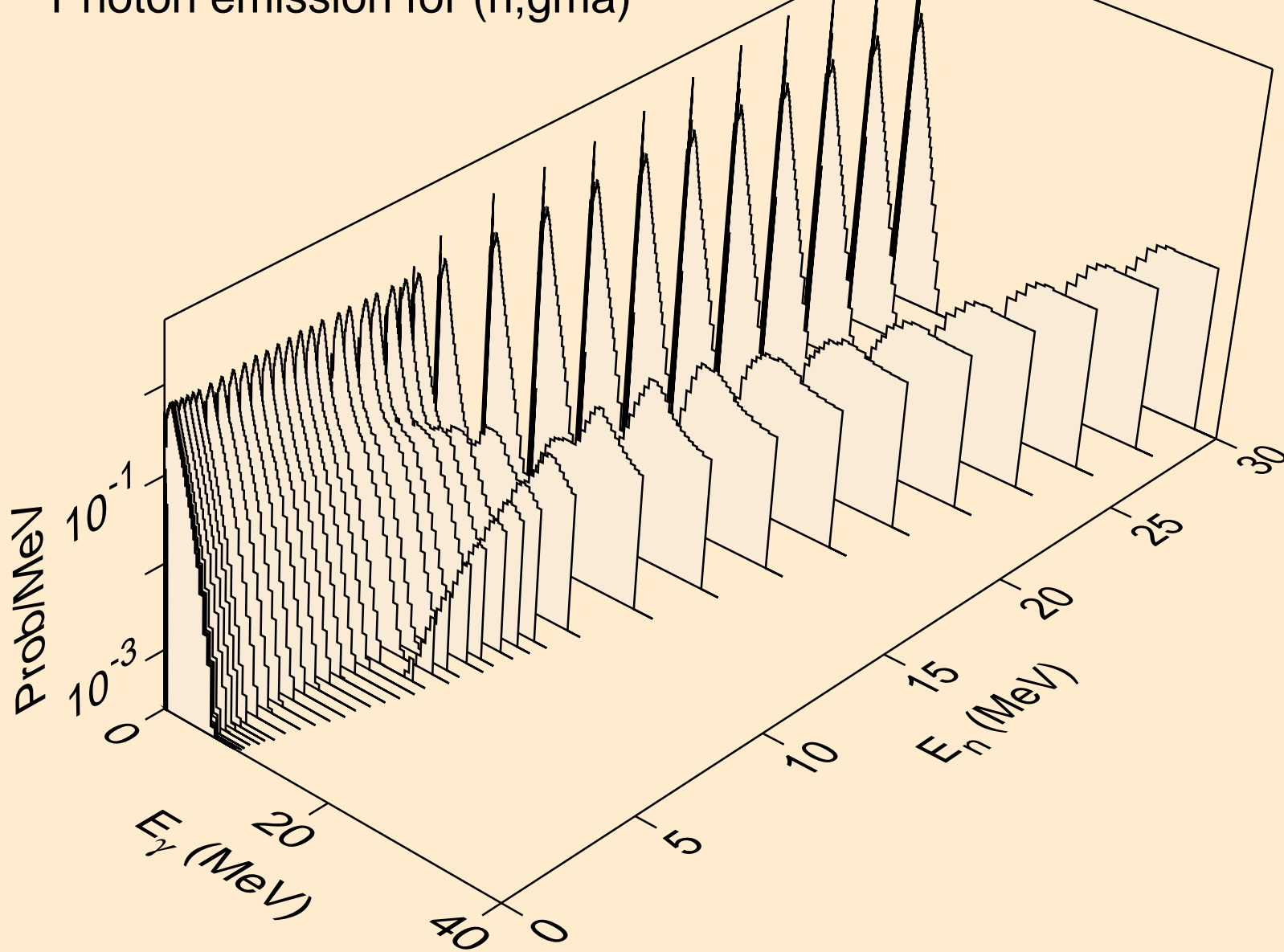
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Photon emission for (n,n*3)



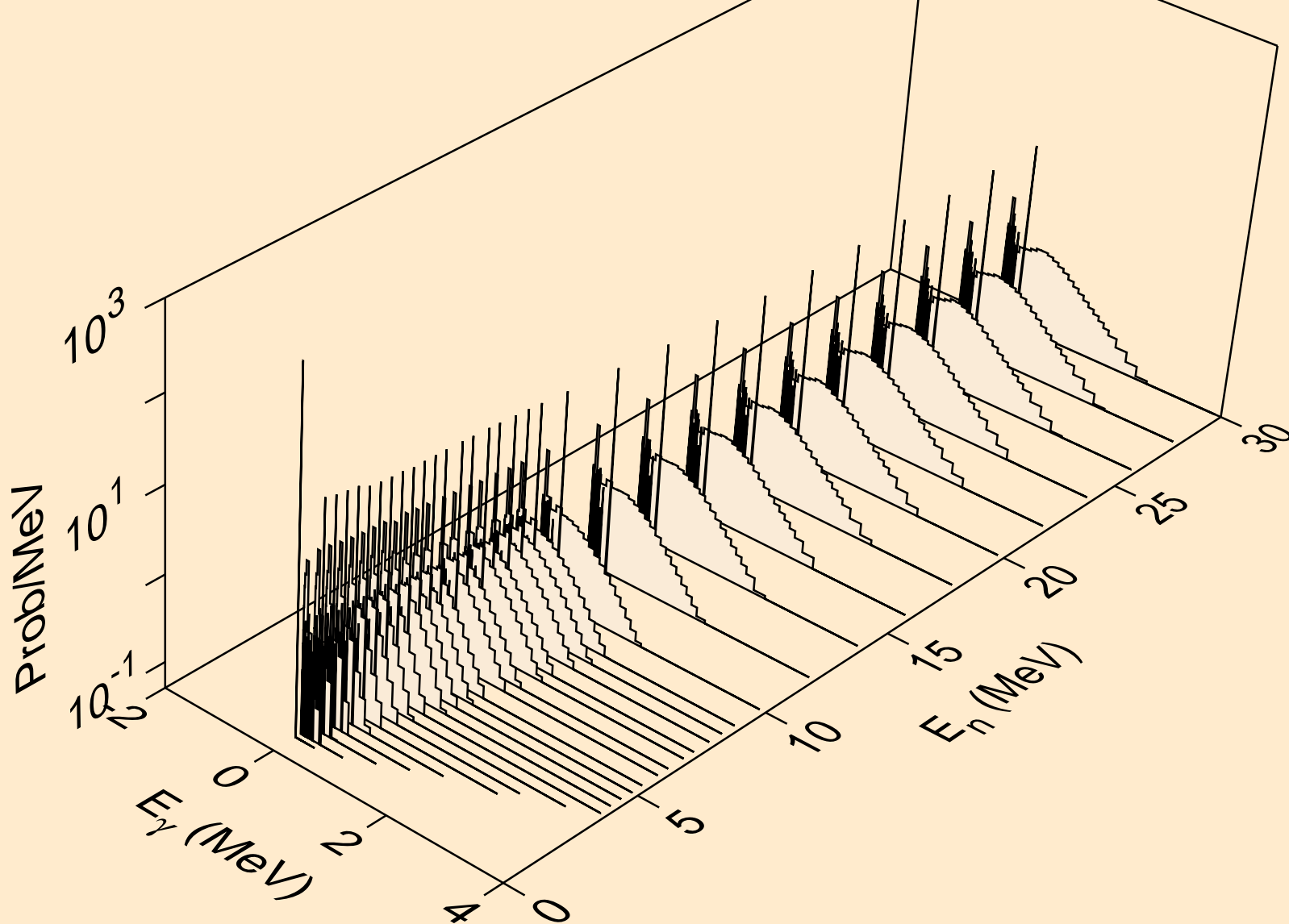
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*c)



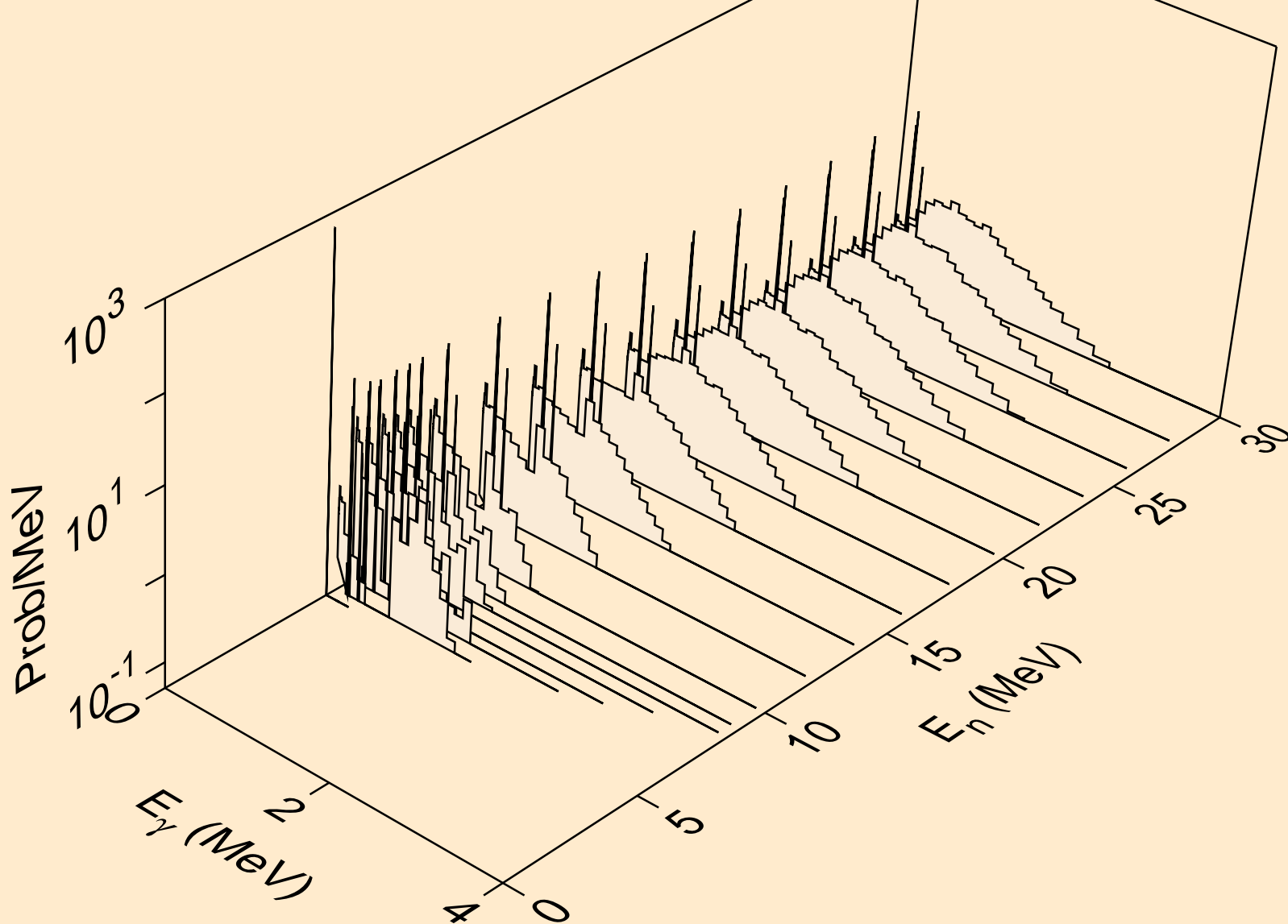
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Photon emission for (n,gma)



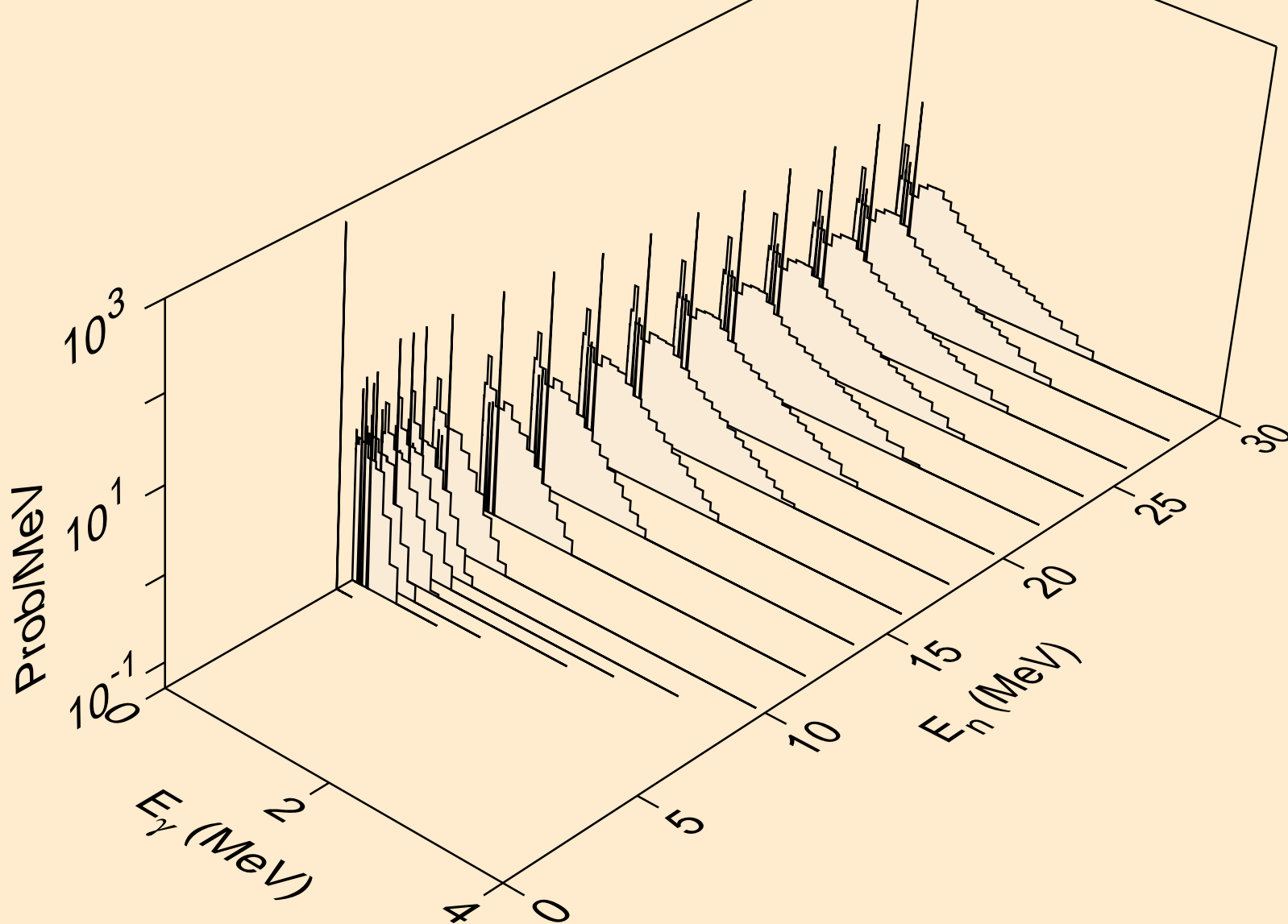
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,p)



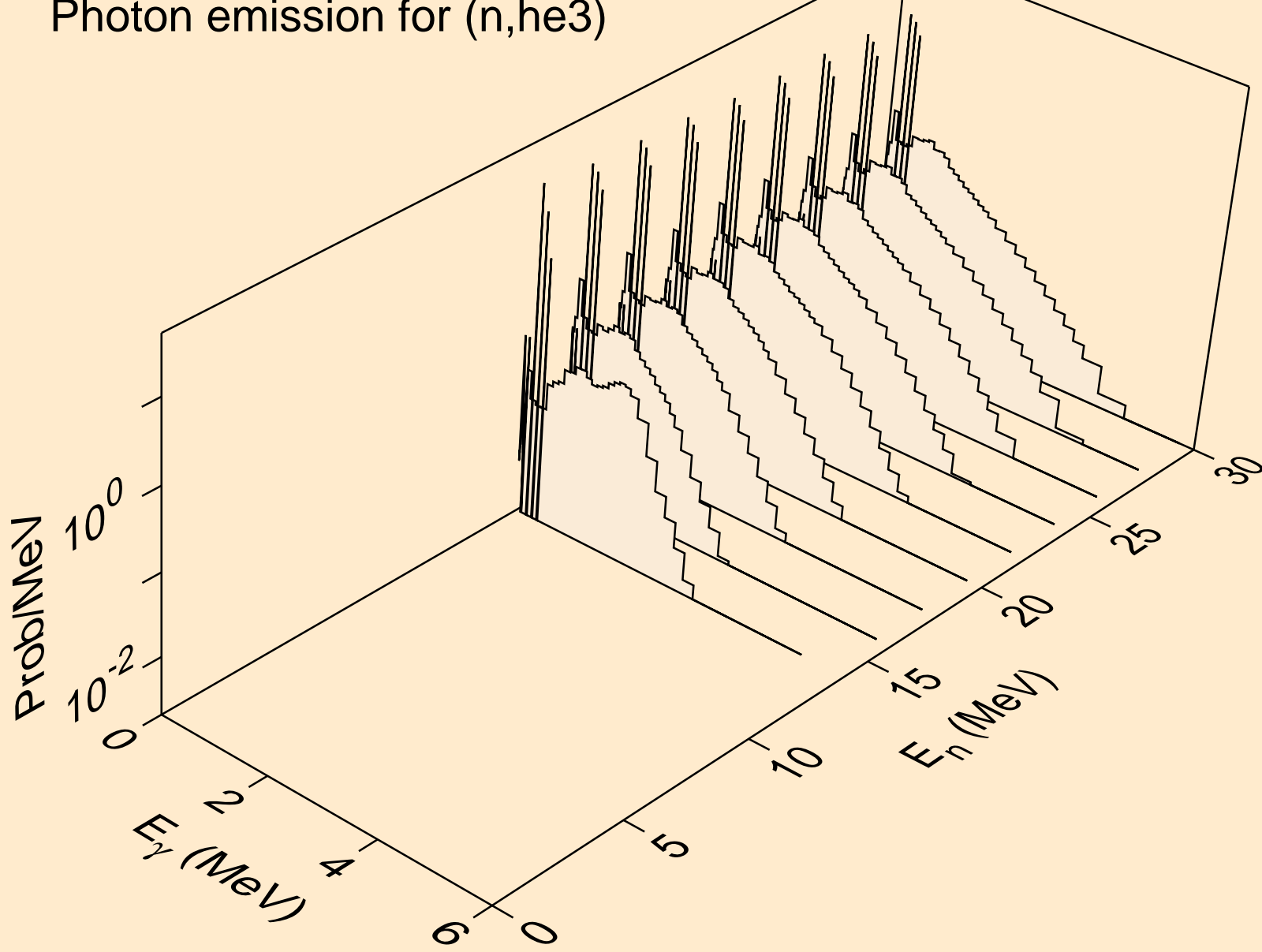
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,d)



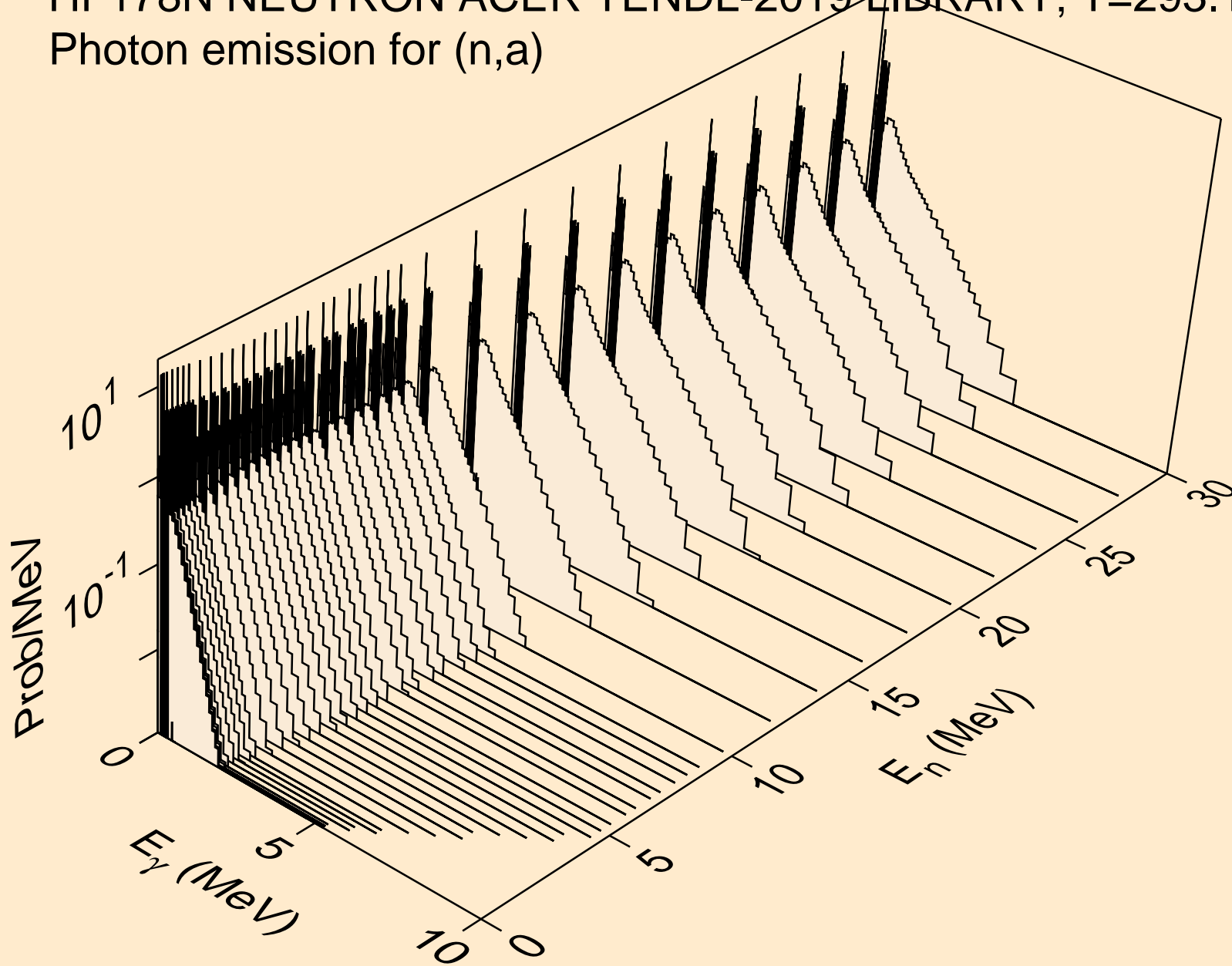
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,t)



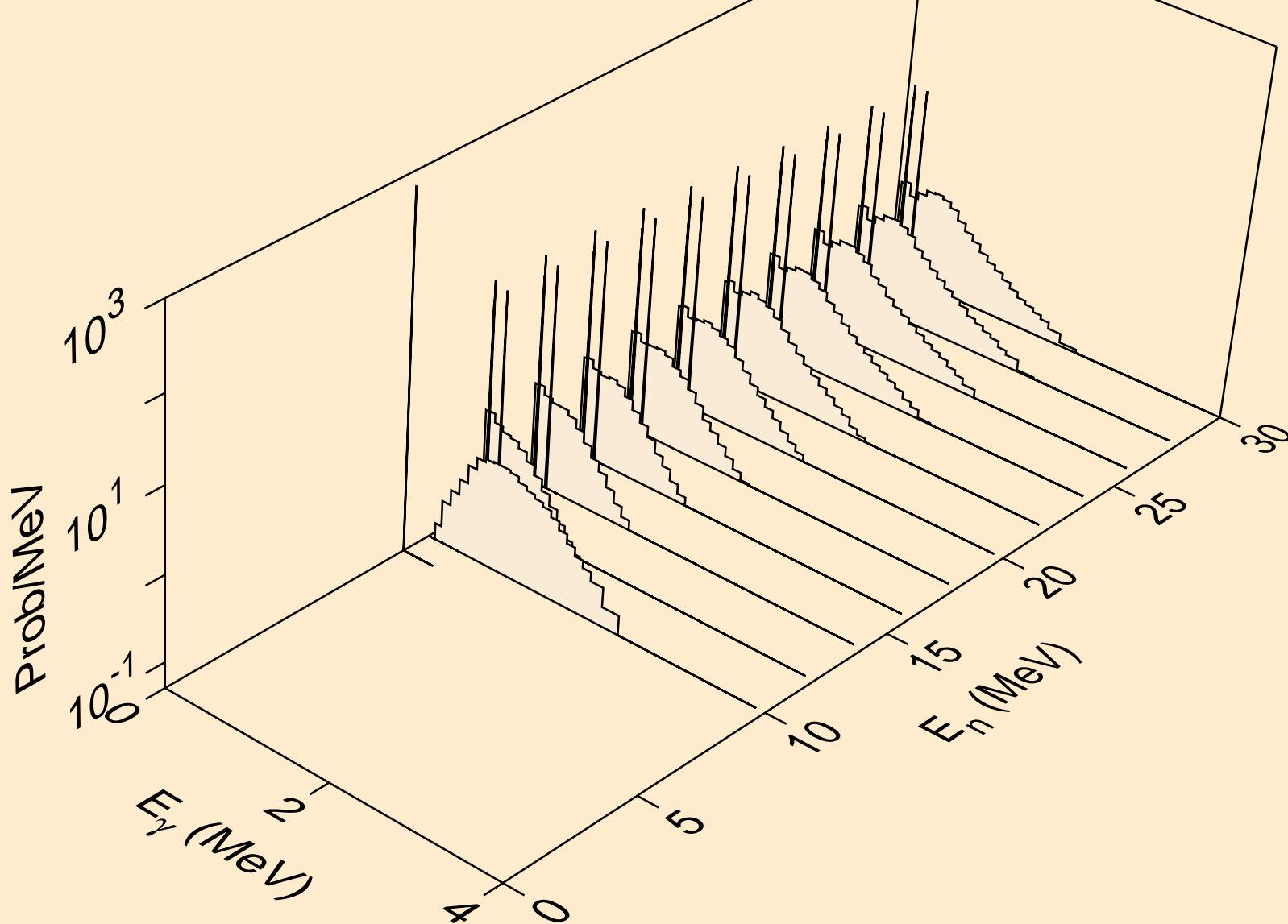
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,he3)



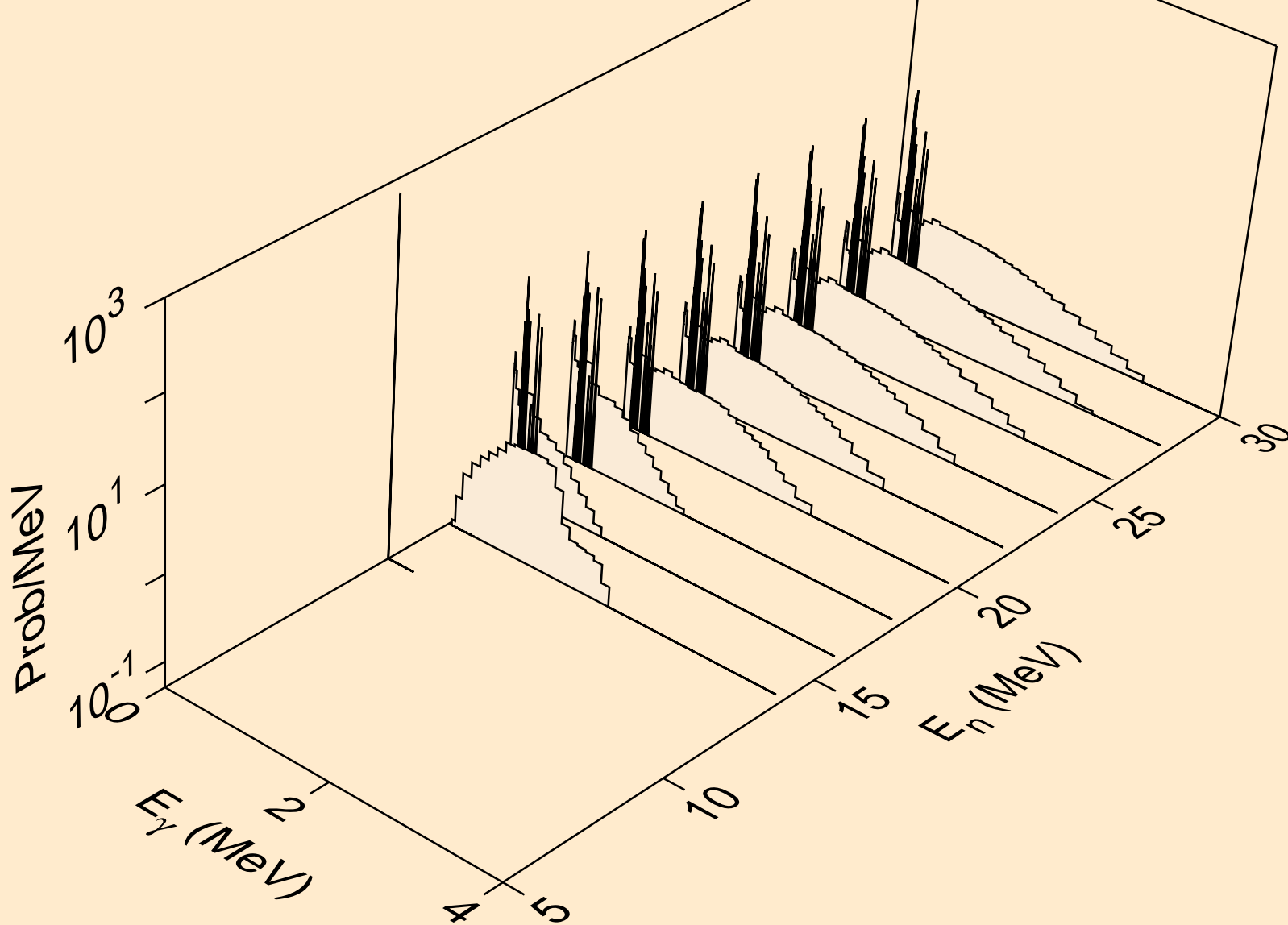
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,a)



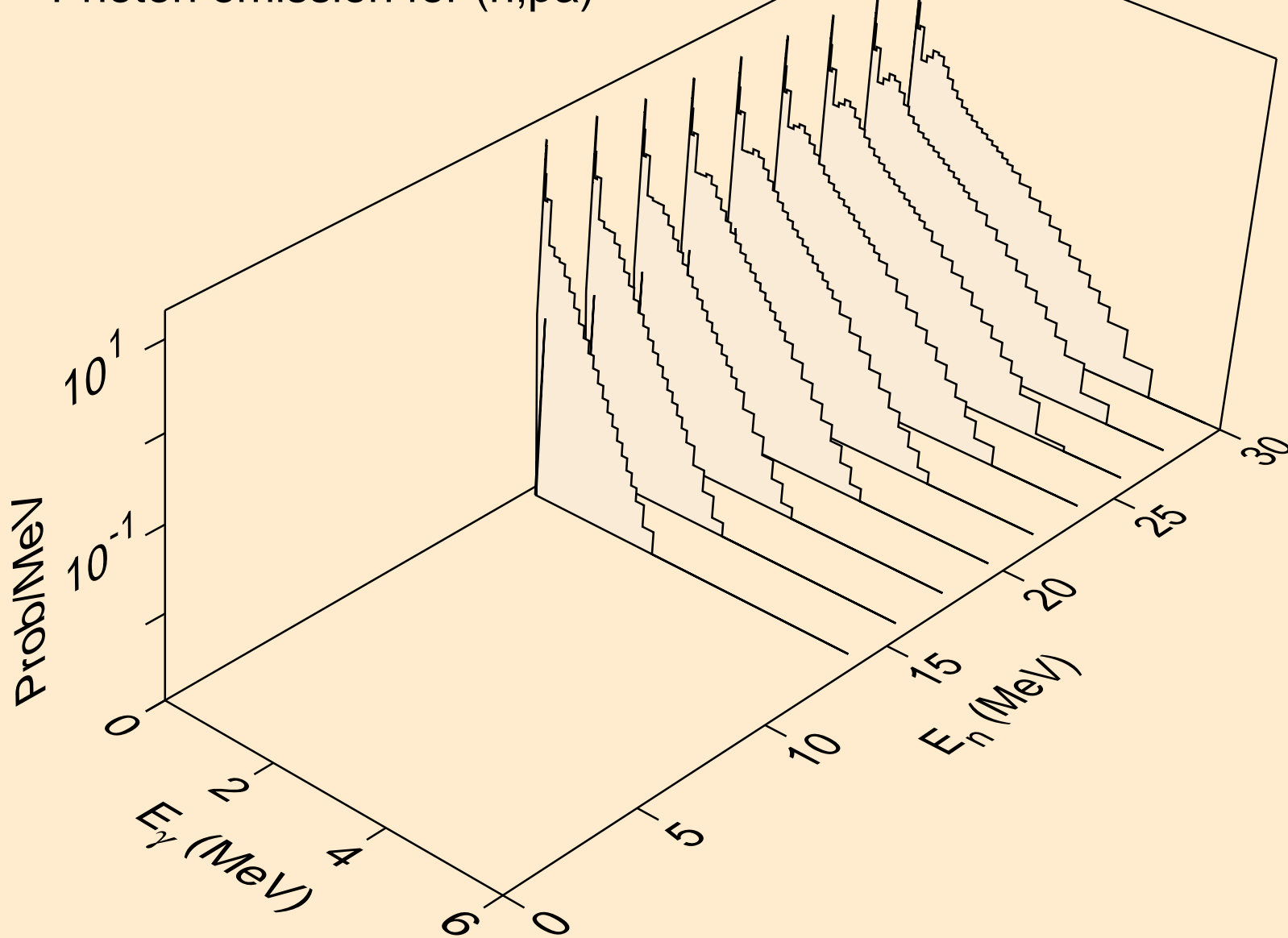
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,2a)



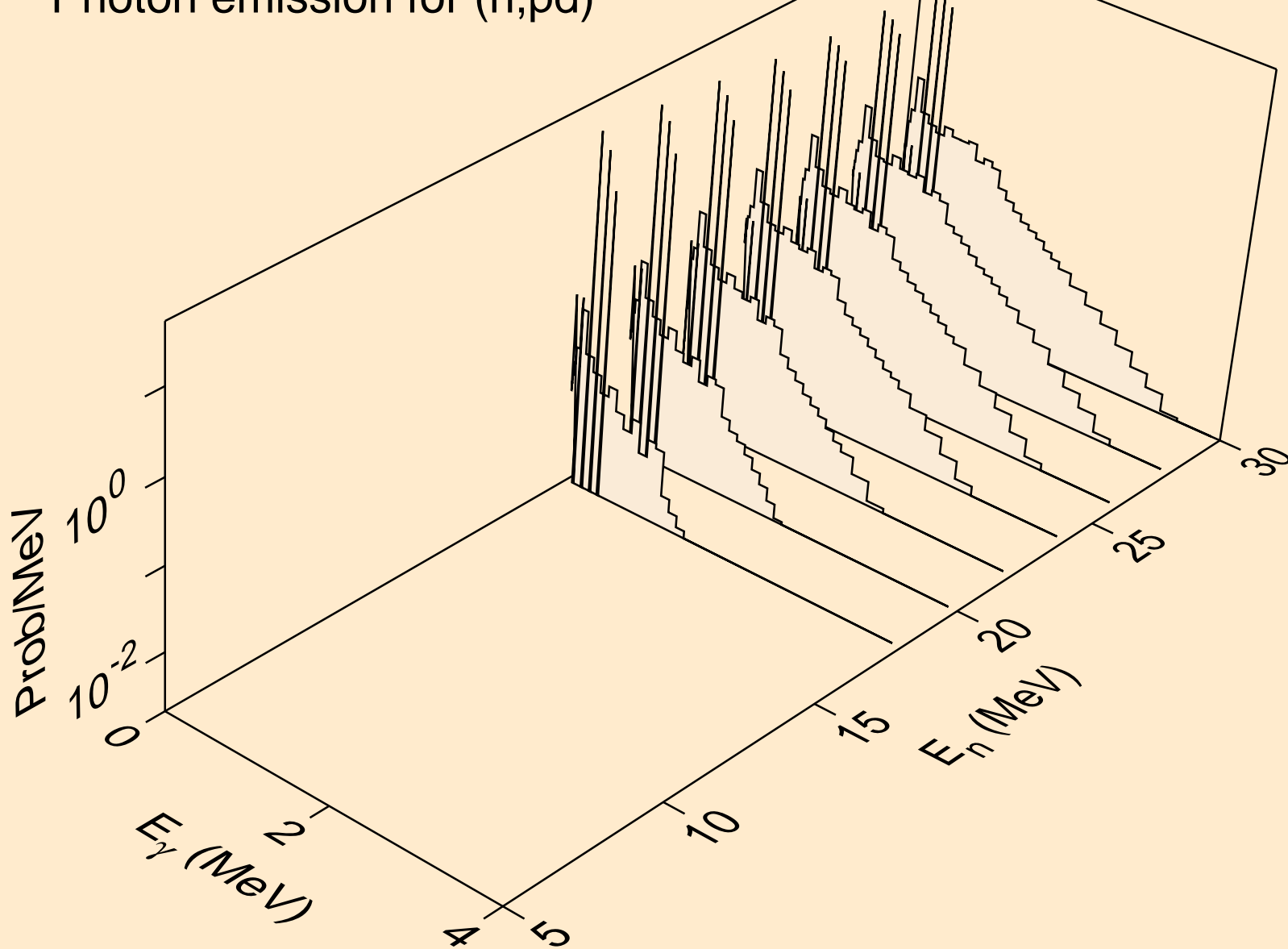
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,2p)



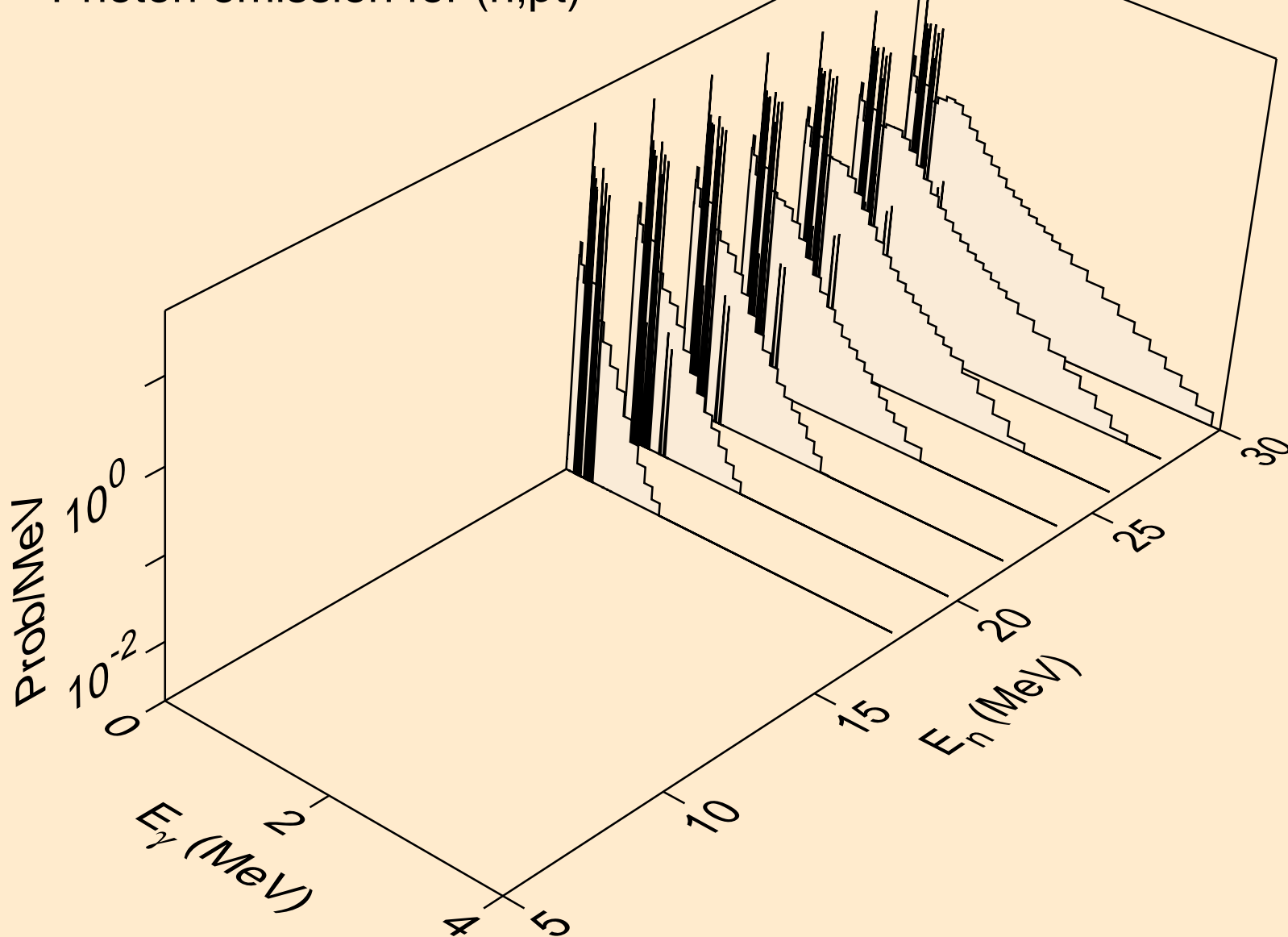
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,p α)



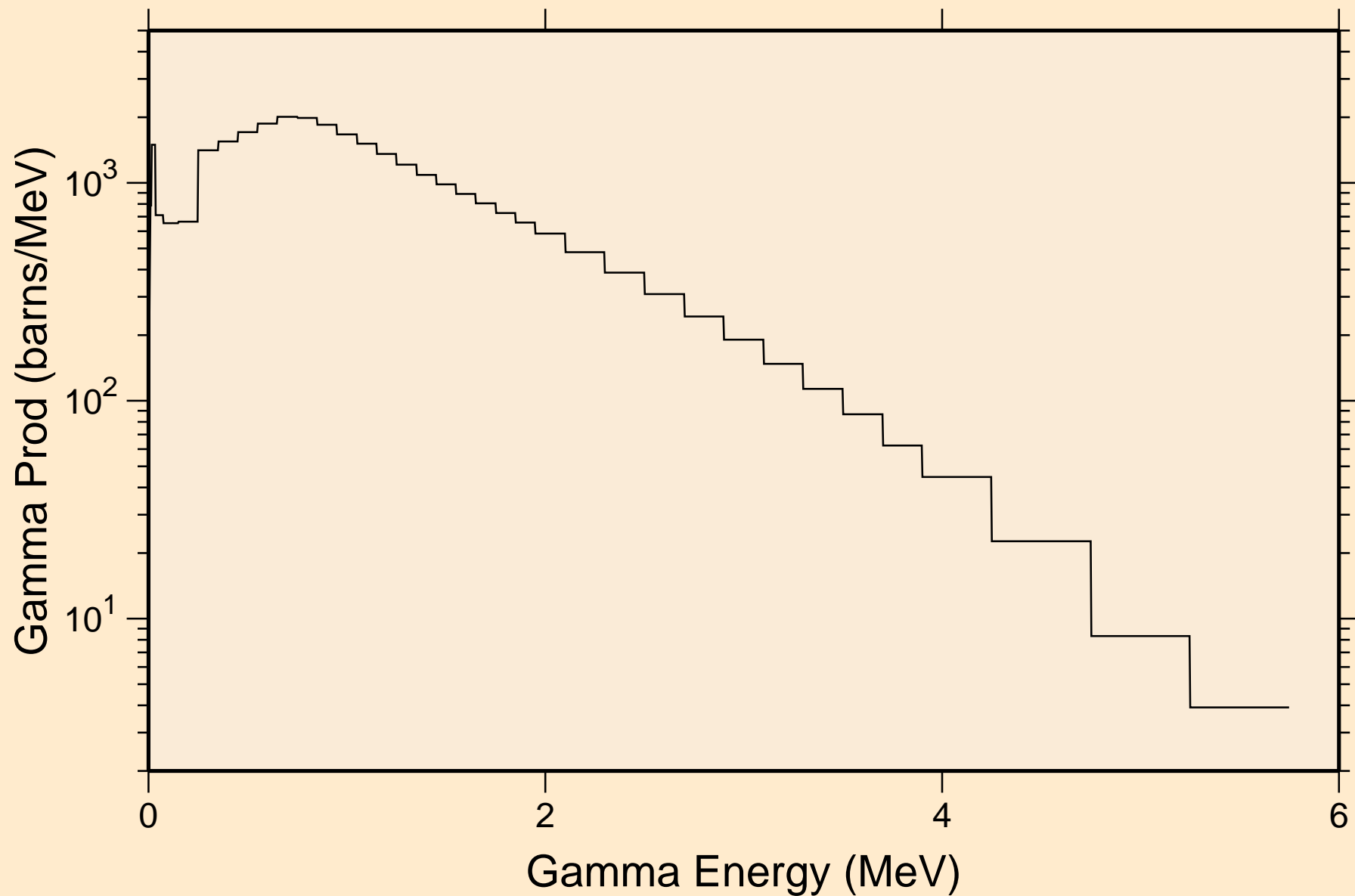
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,pd)



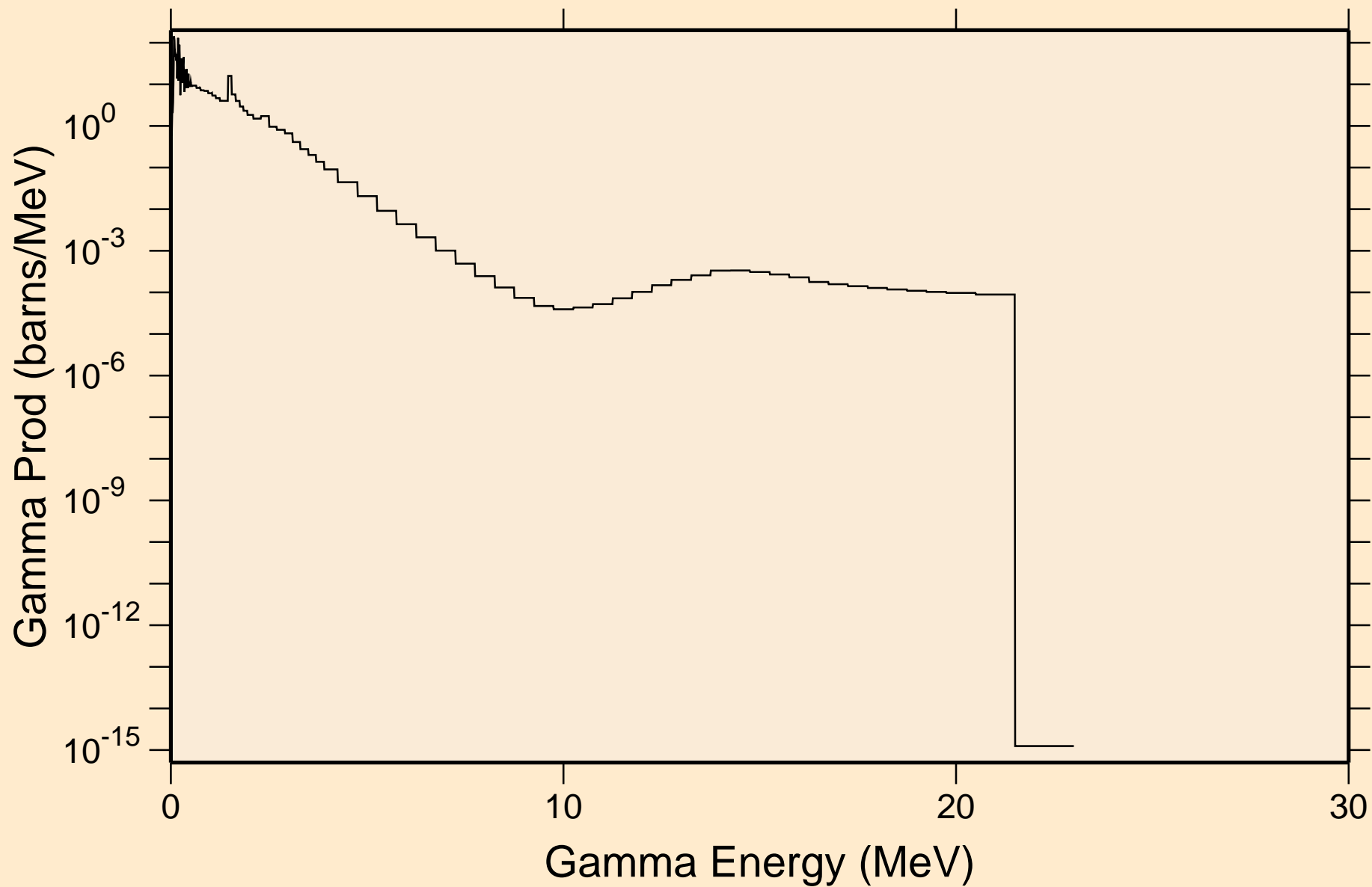
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,pt)



HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
thermal capture photon spectrum

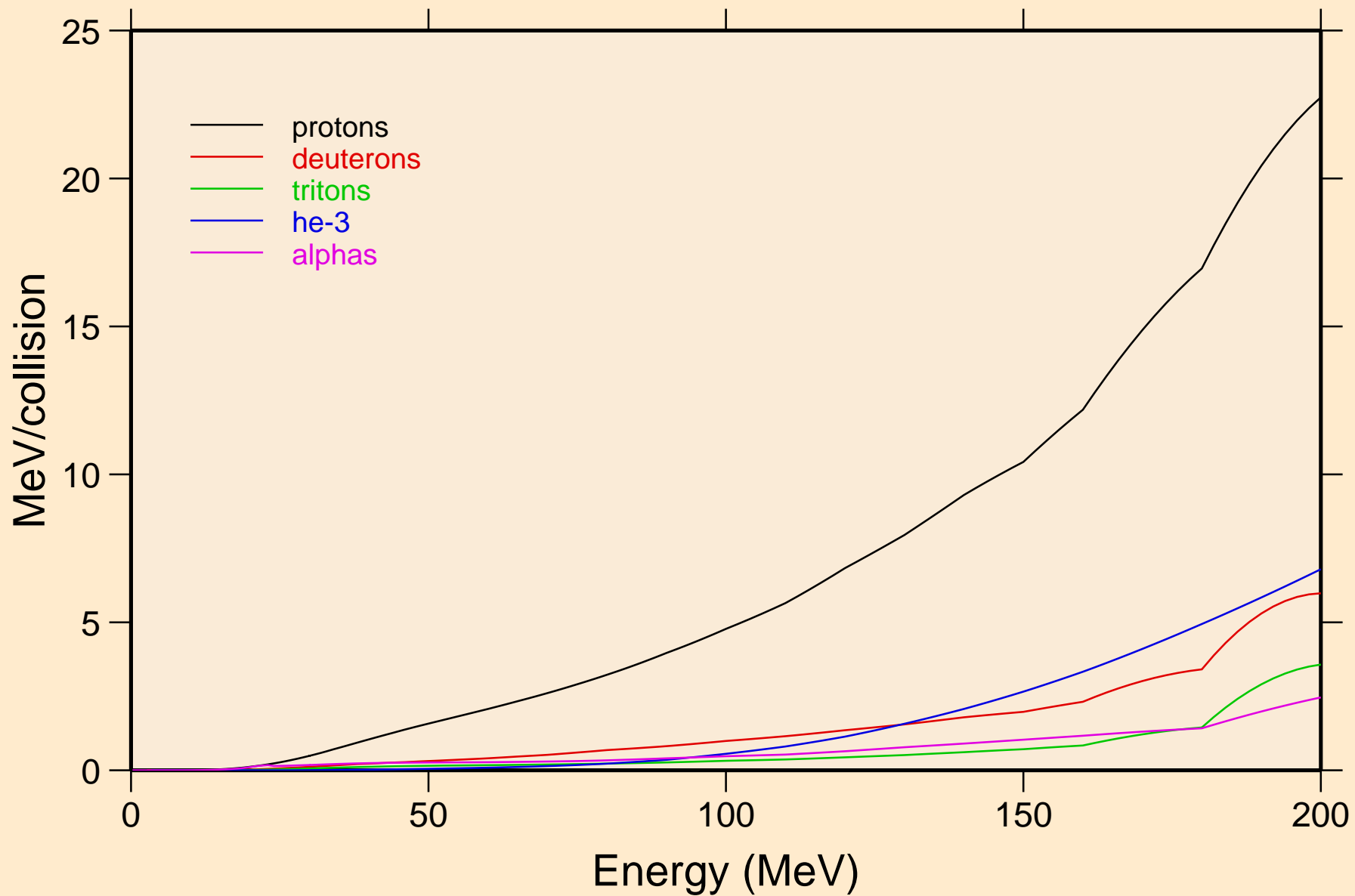


HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
14 MeV photon spectrum

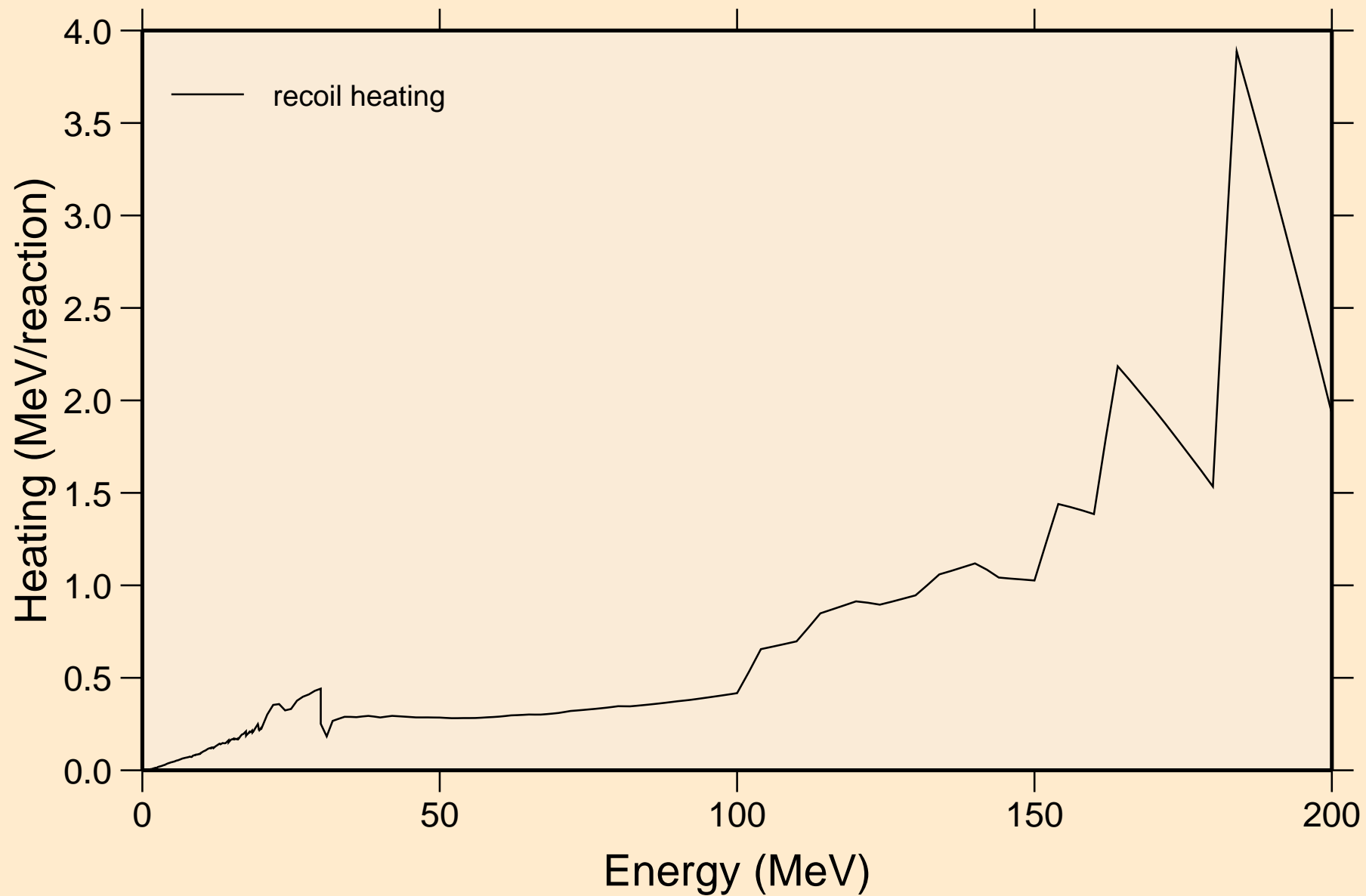


HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

Particle heating contributions

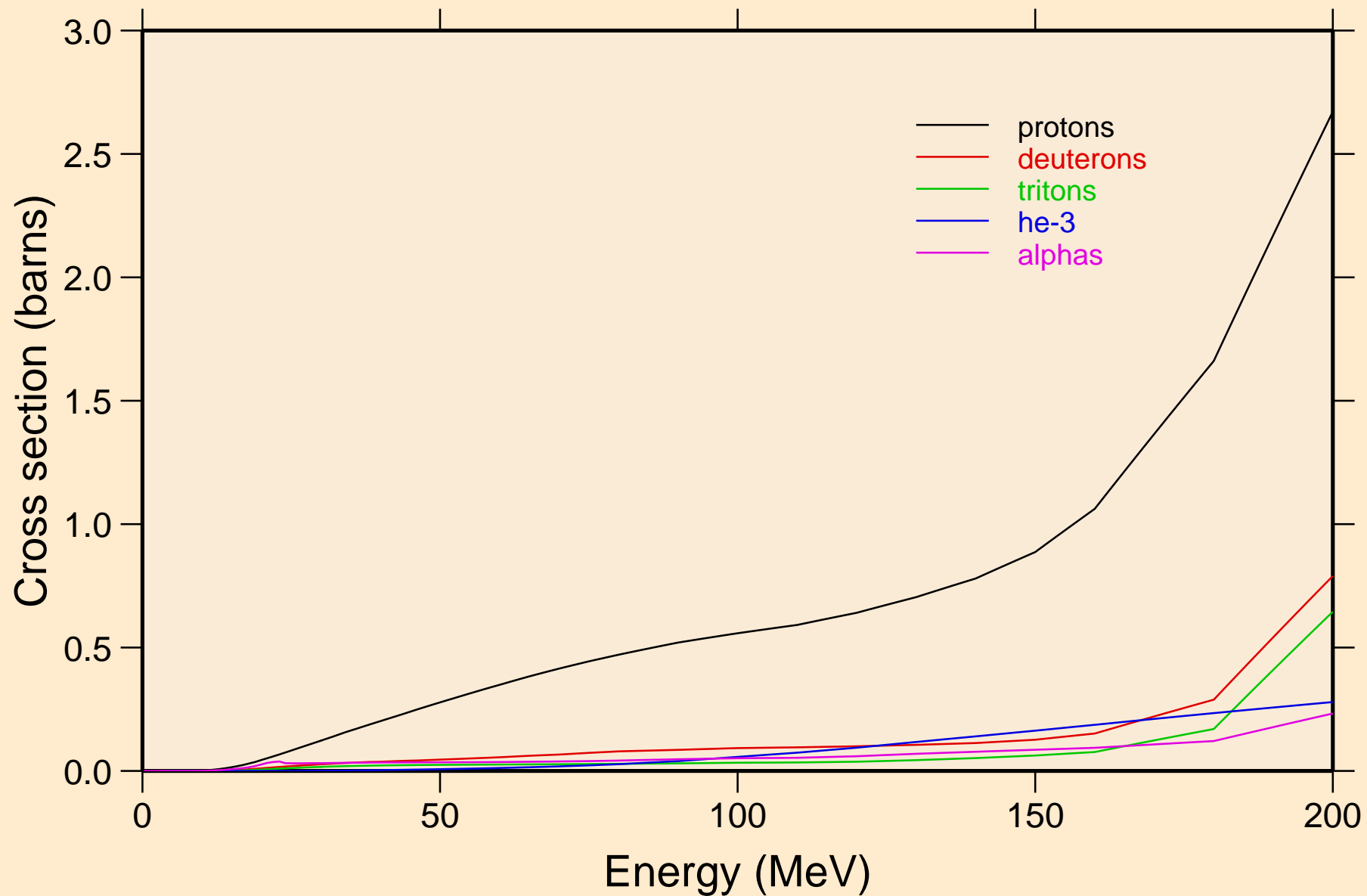


HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Recoil Heating

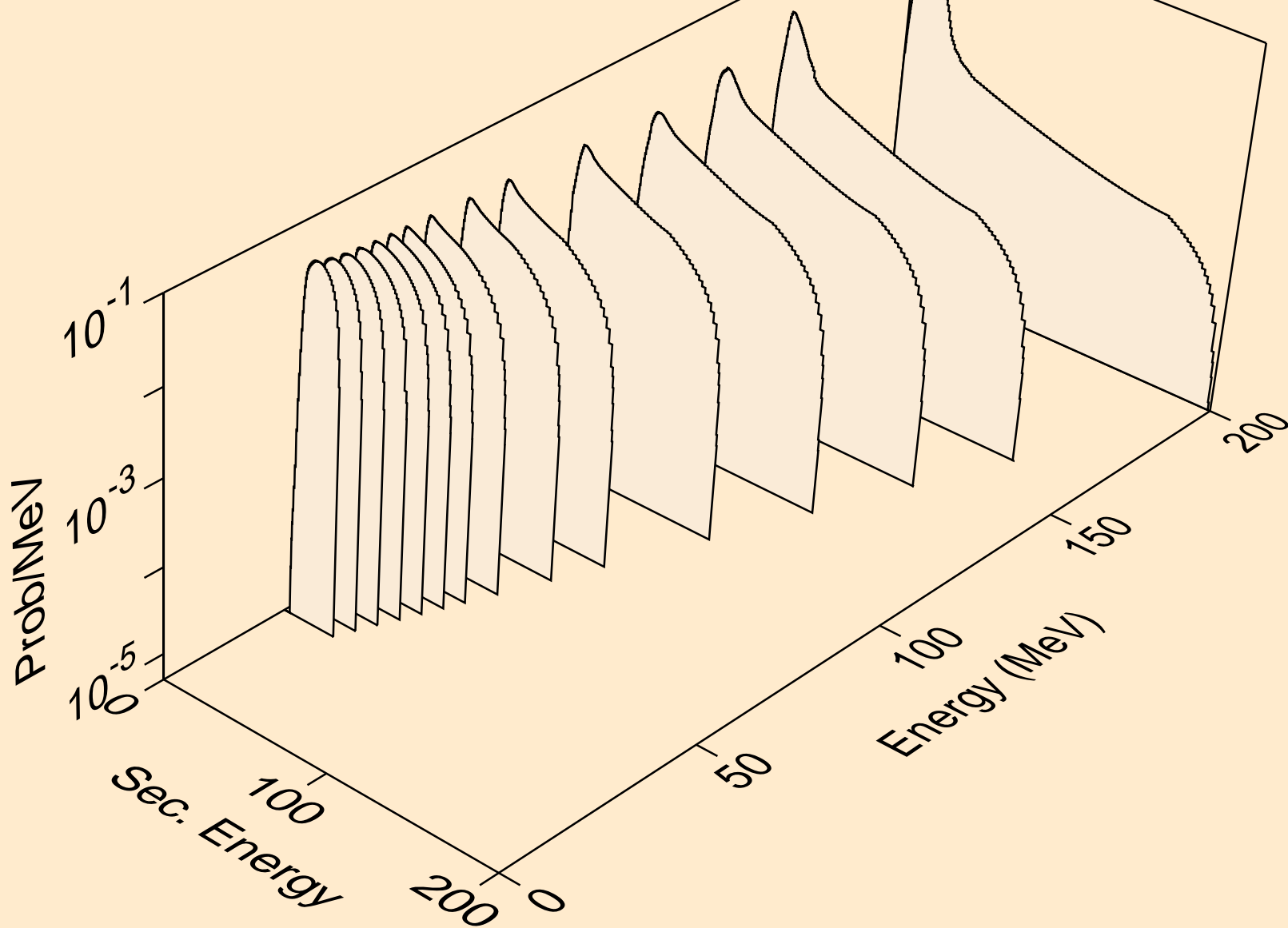


HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

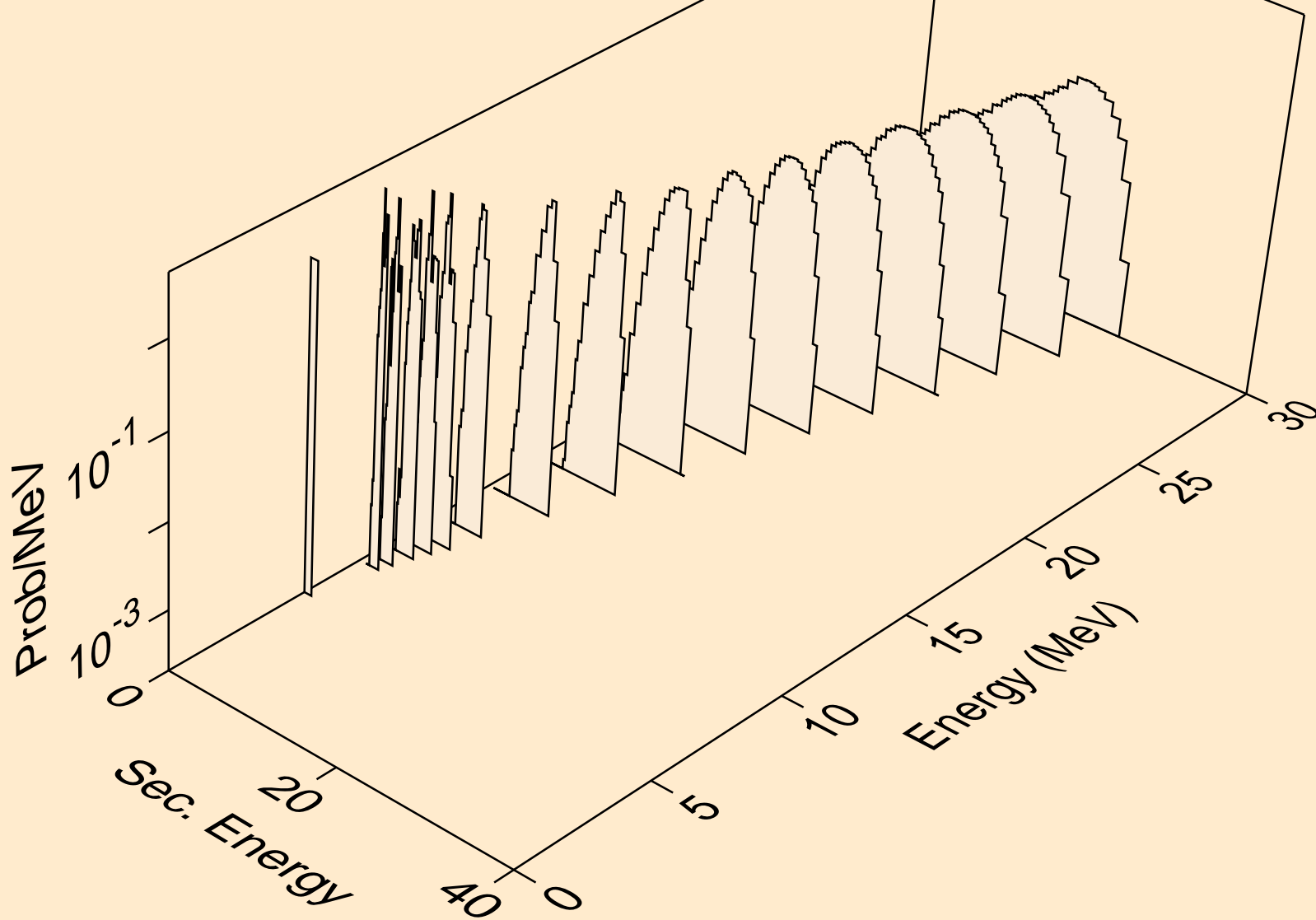
Particle production cross sections



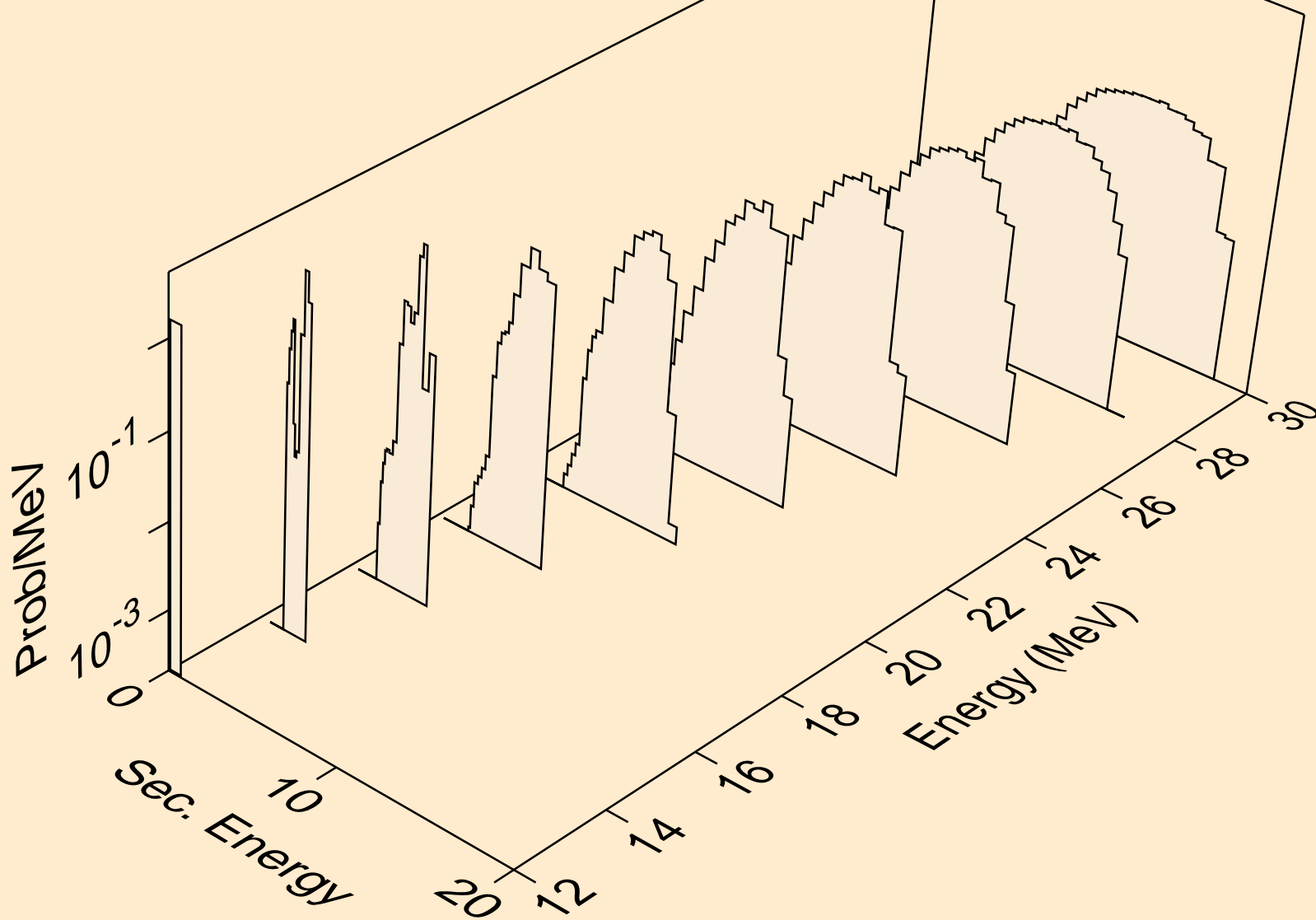
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,x)



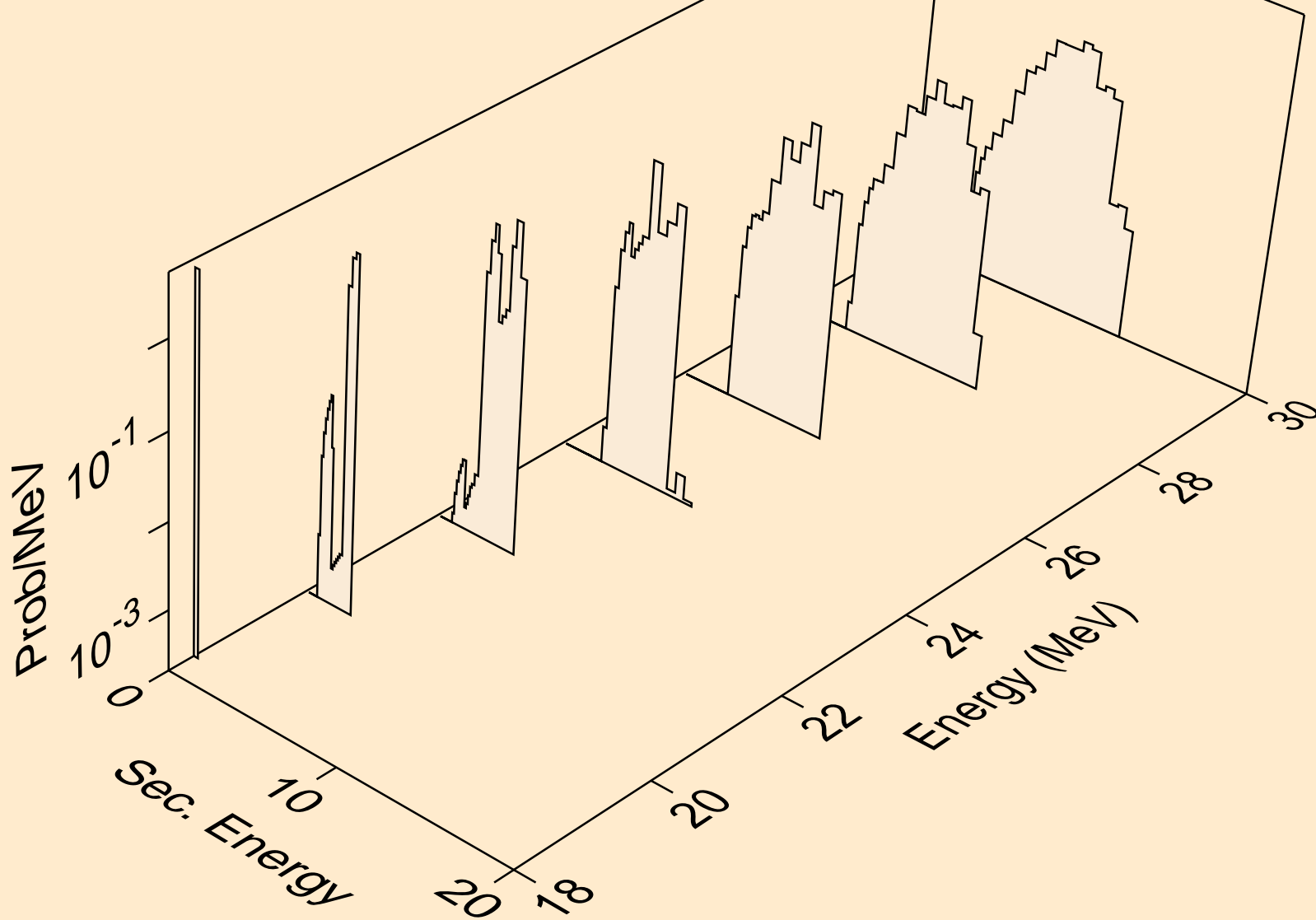
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,n*)p



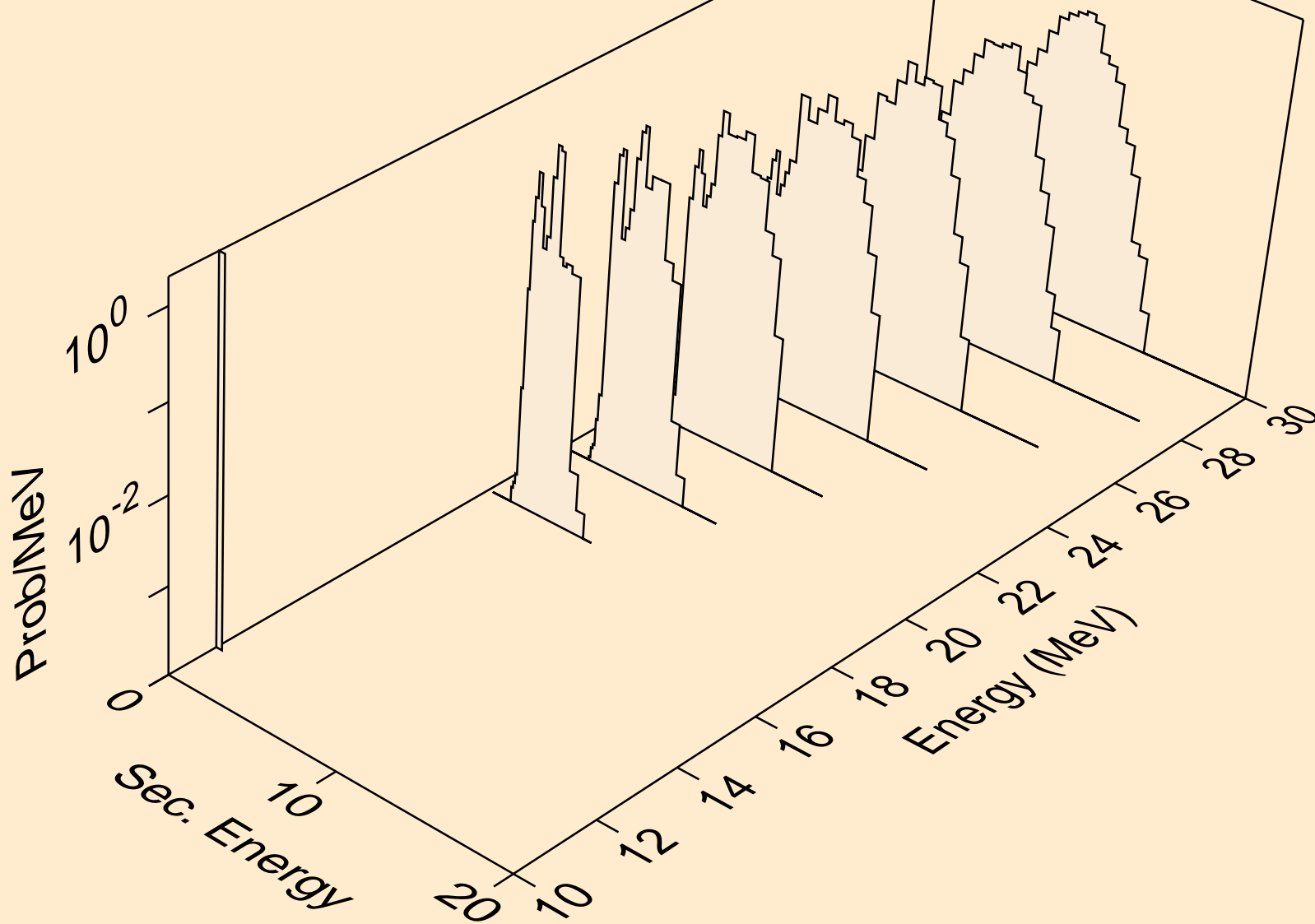
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,2np)



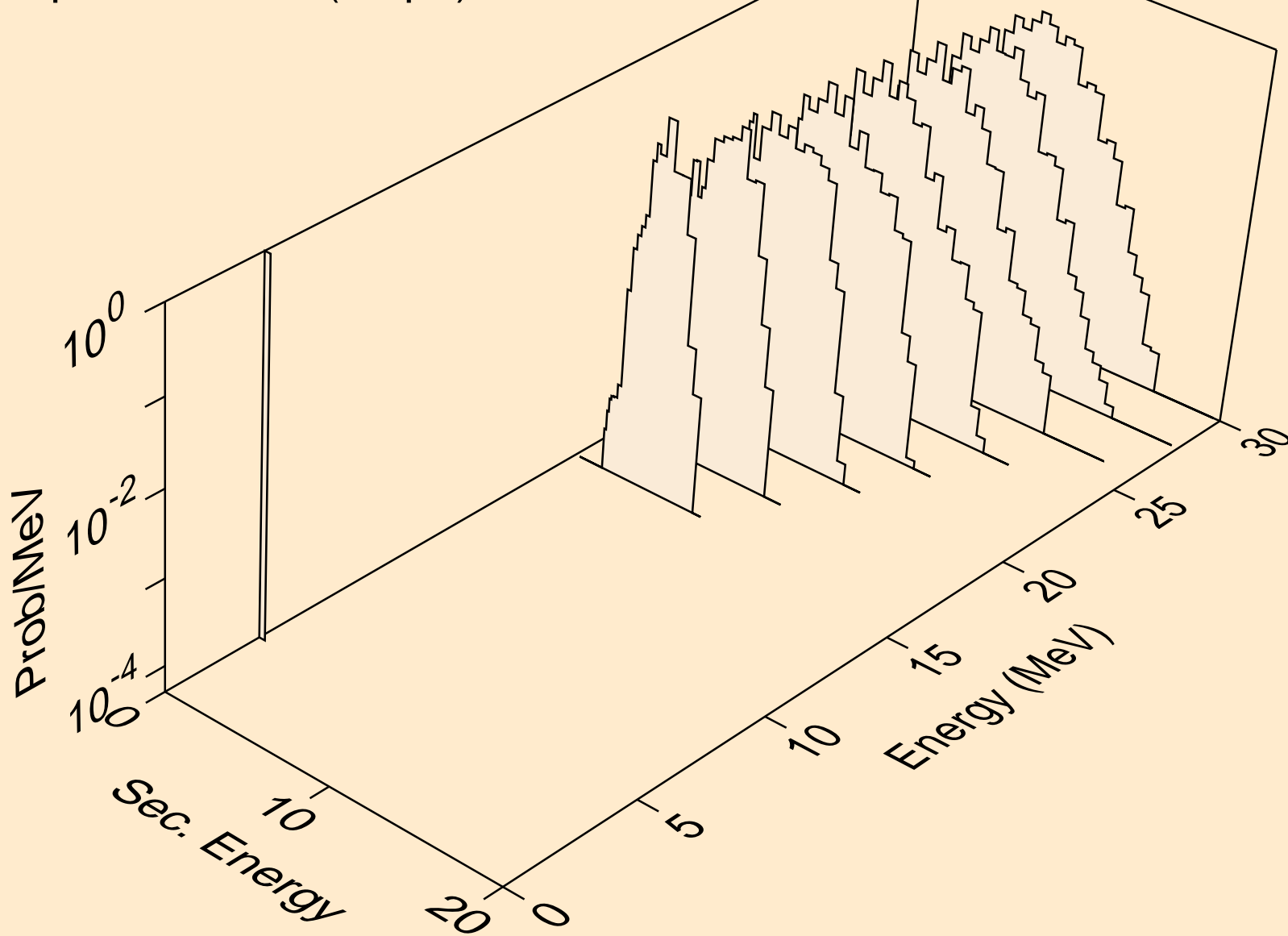
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,3np)



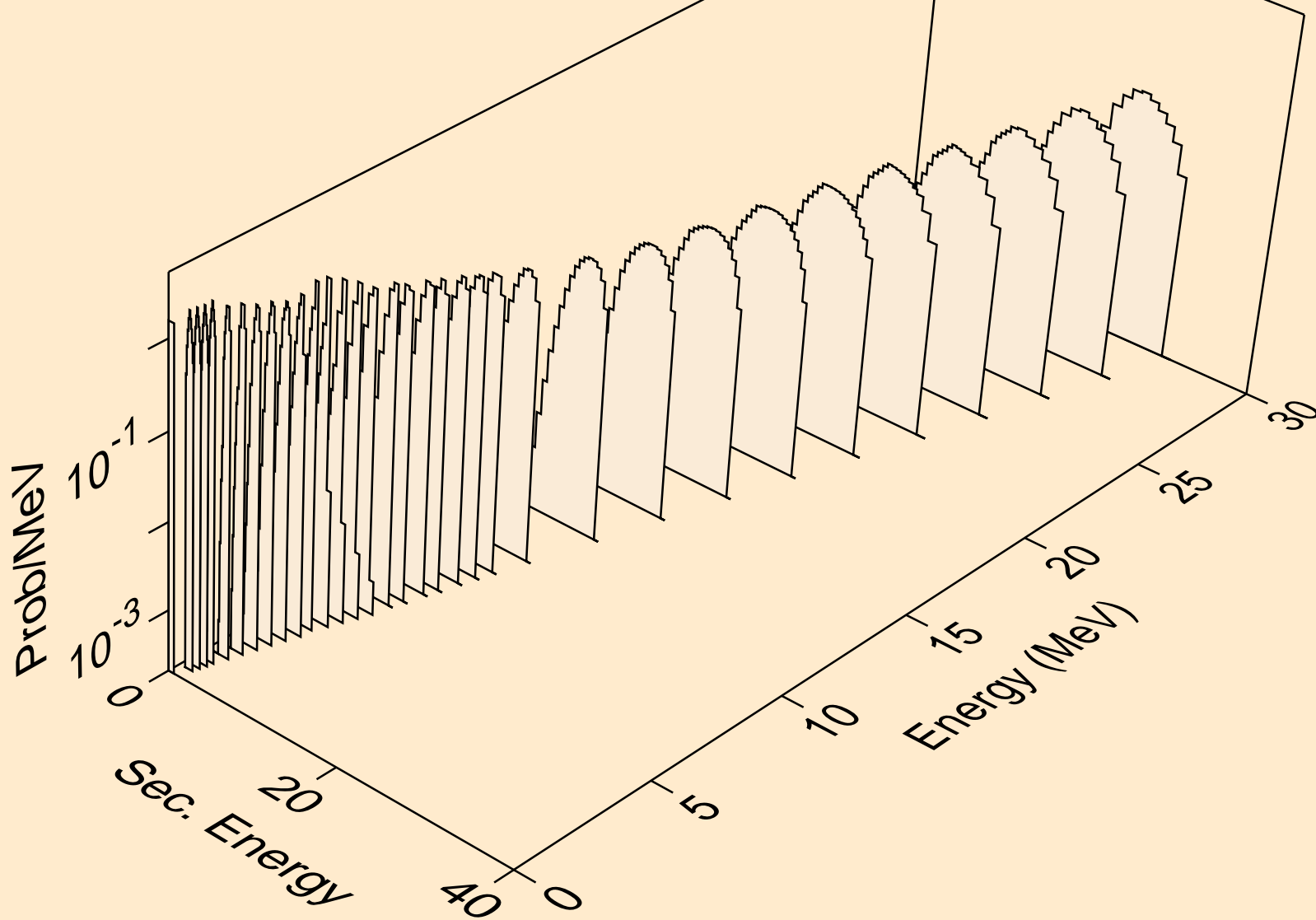
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,2np)



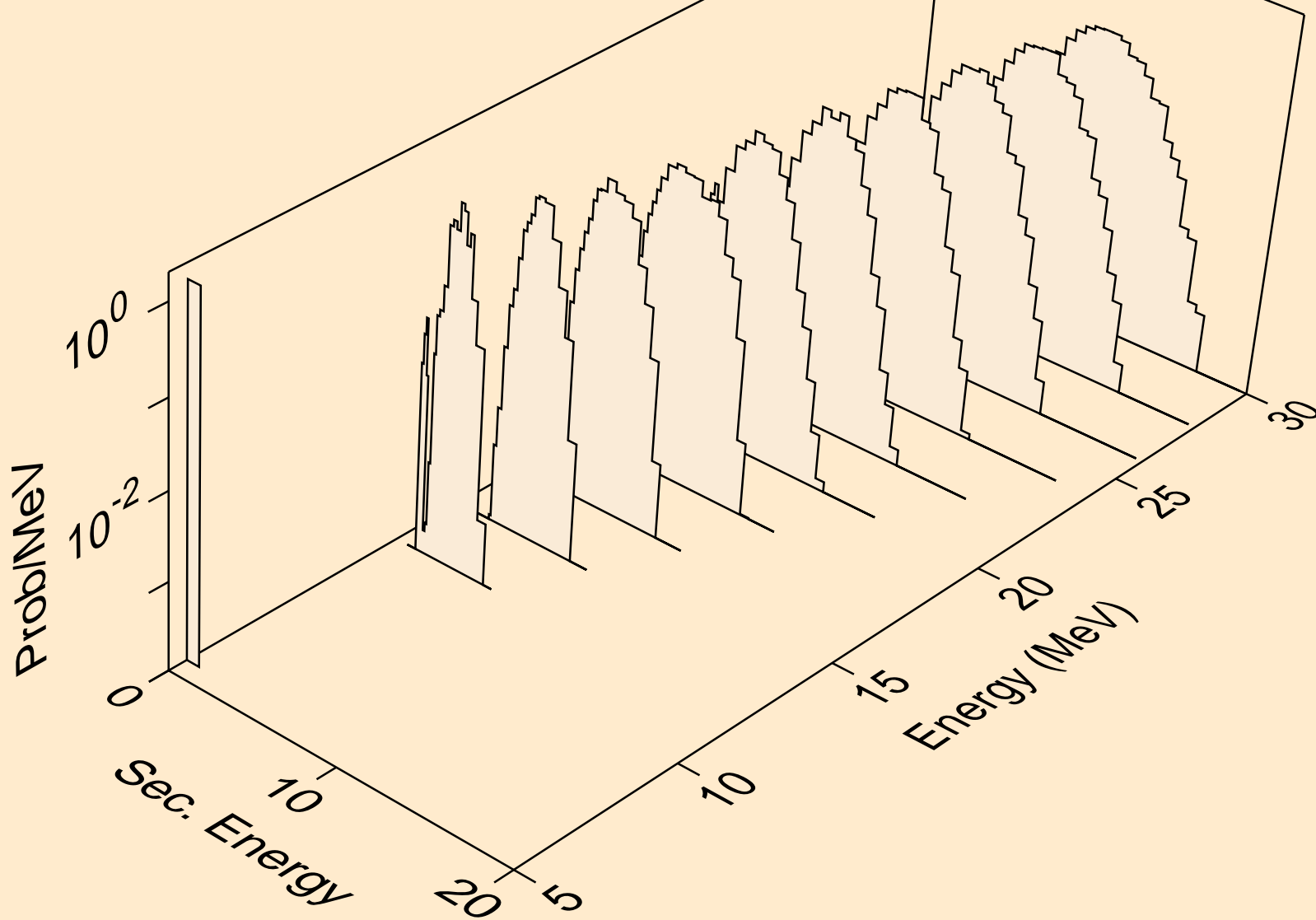
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,npa)



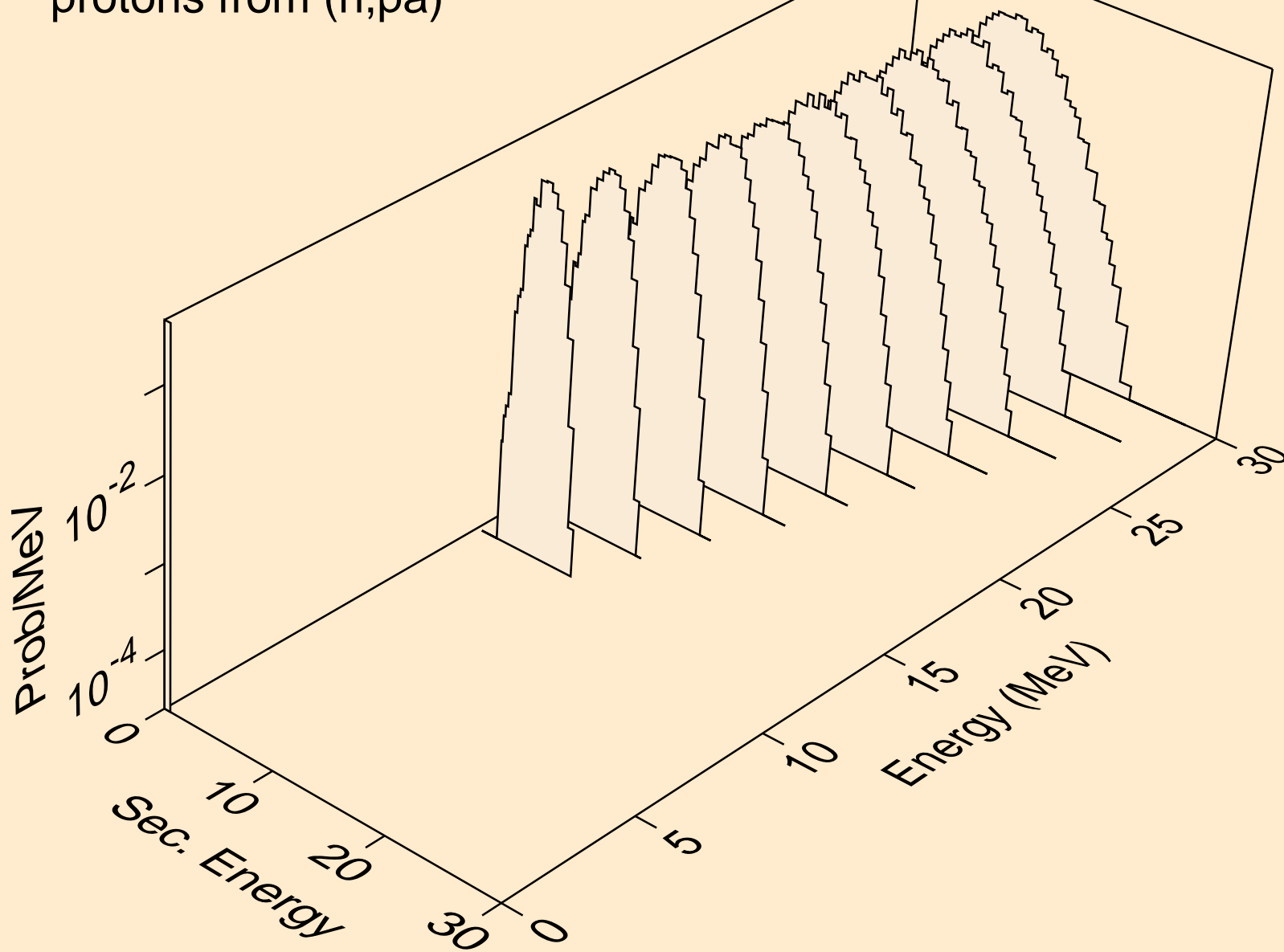
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,p)



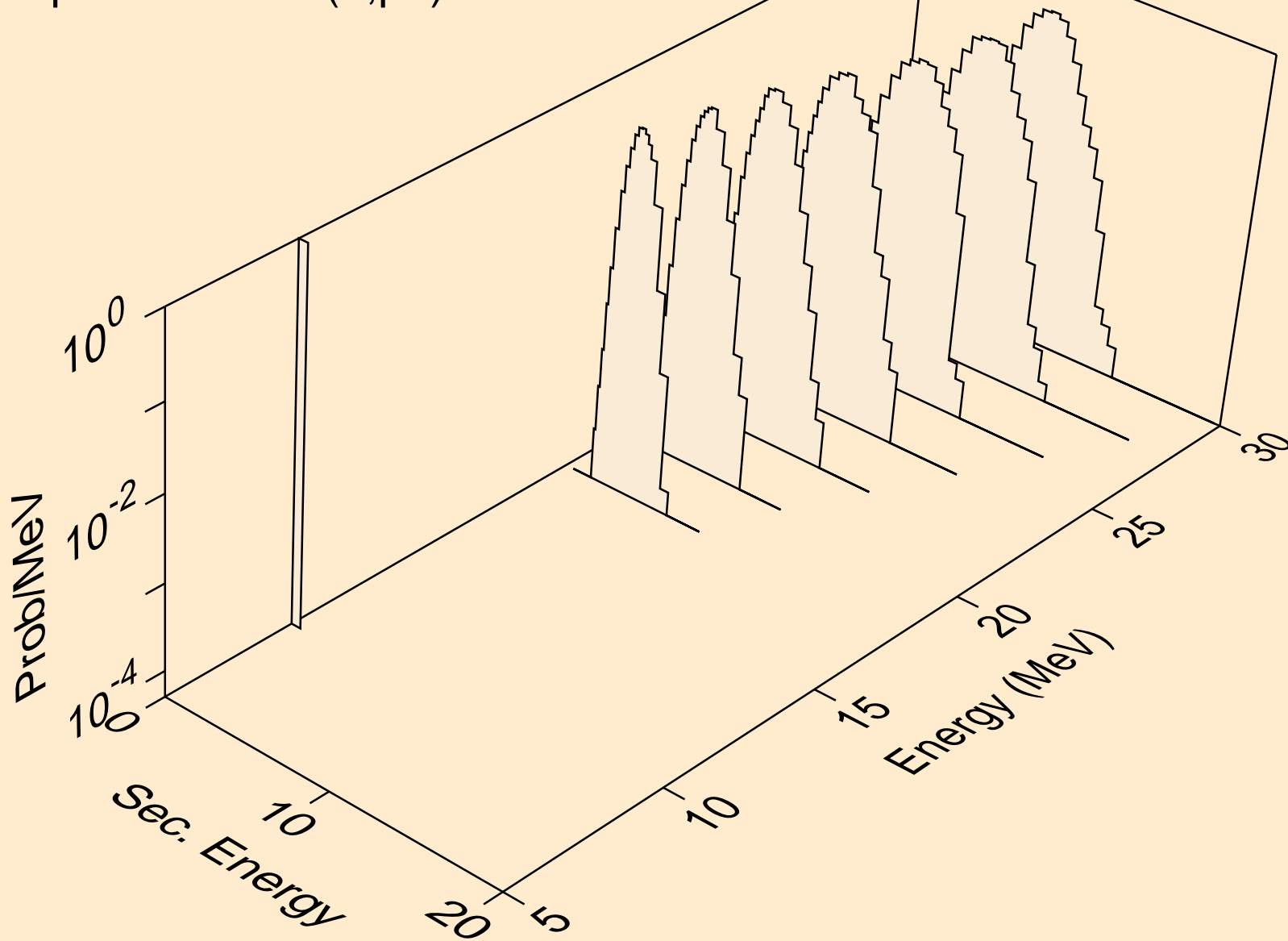
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,2p)



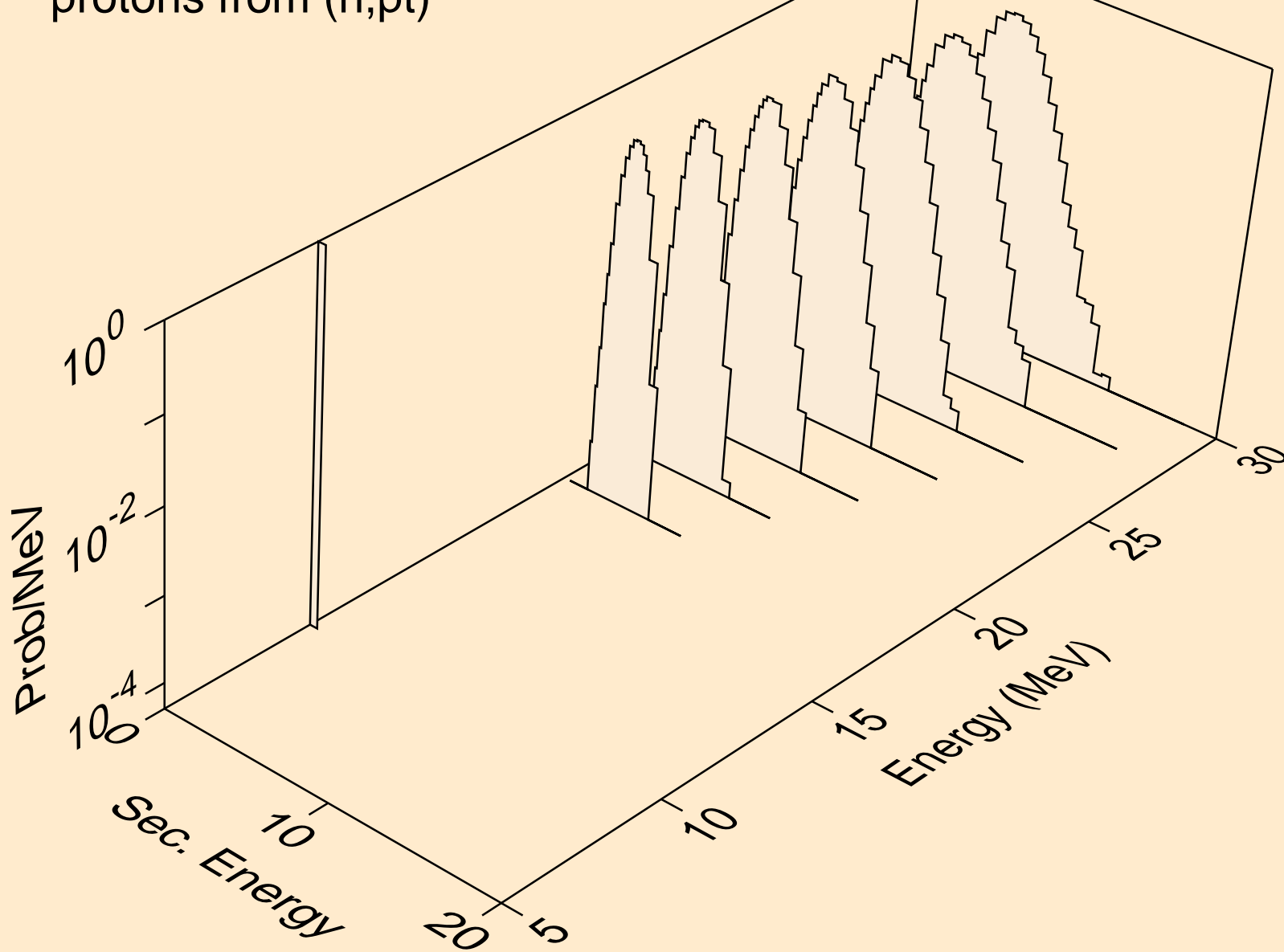
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,pa)



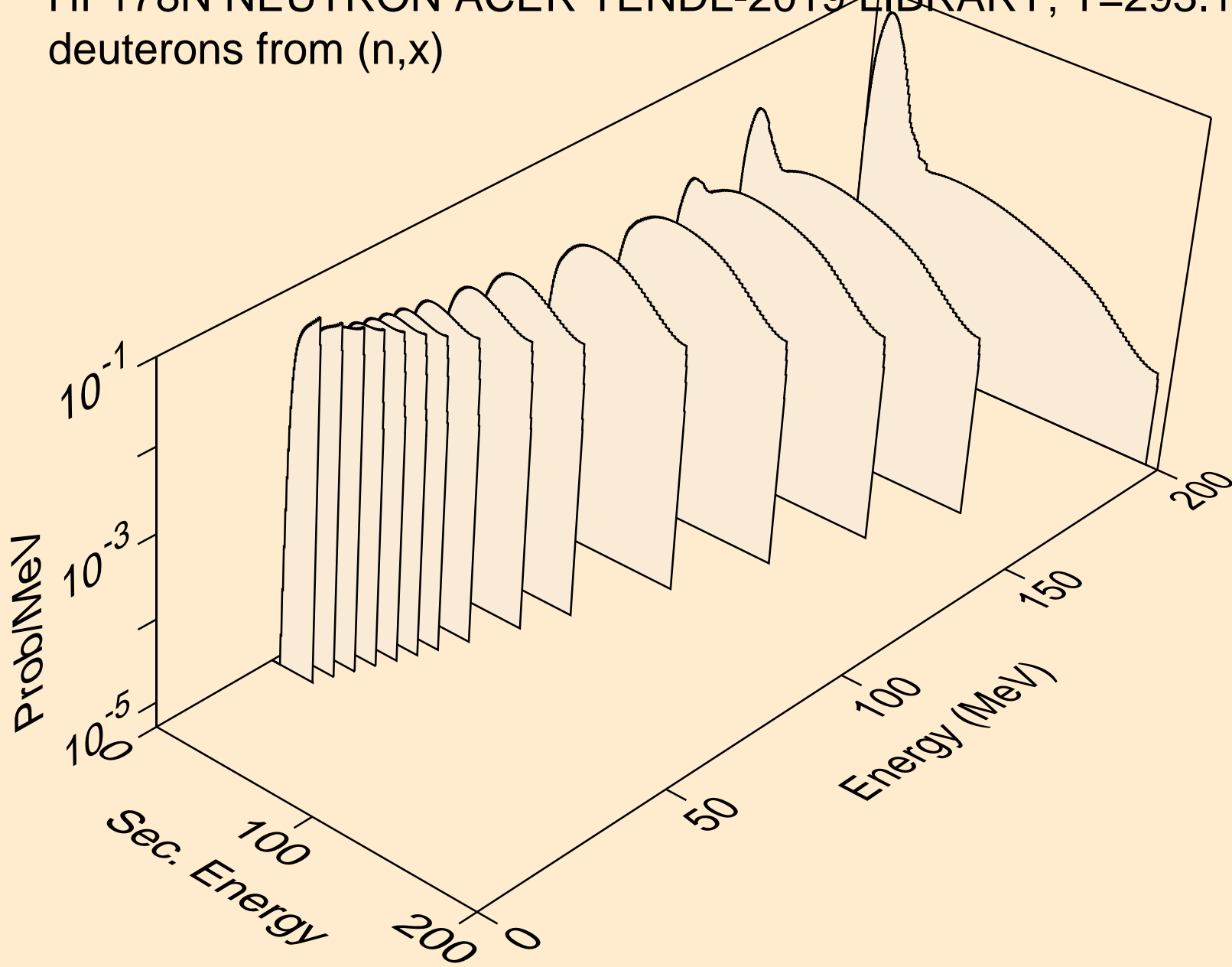
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,pd)



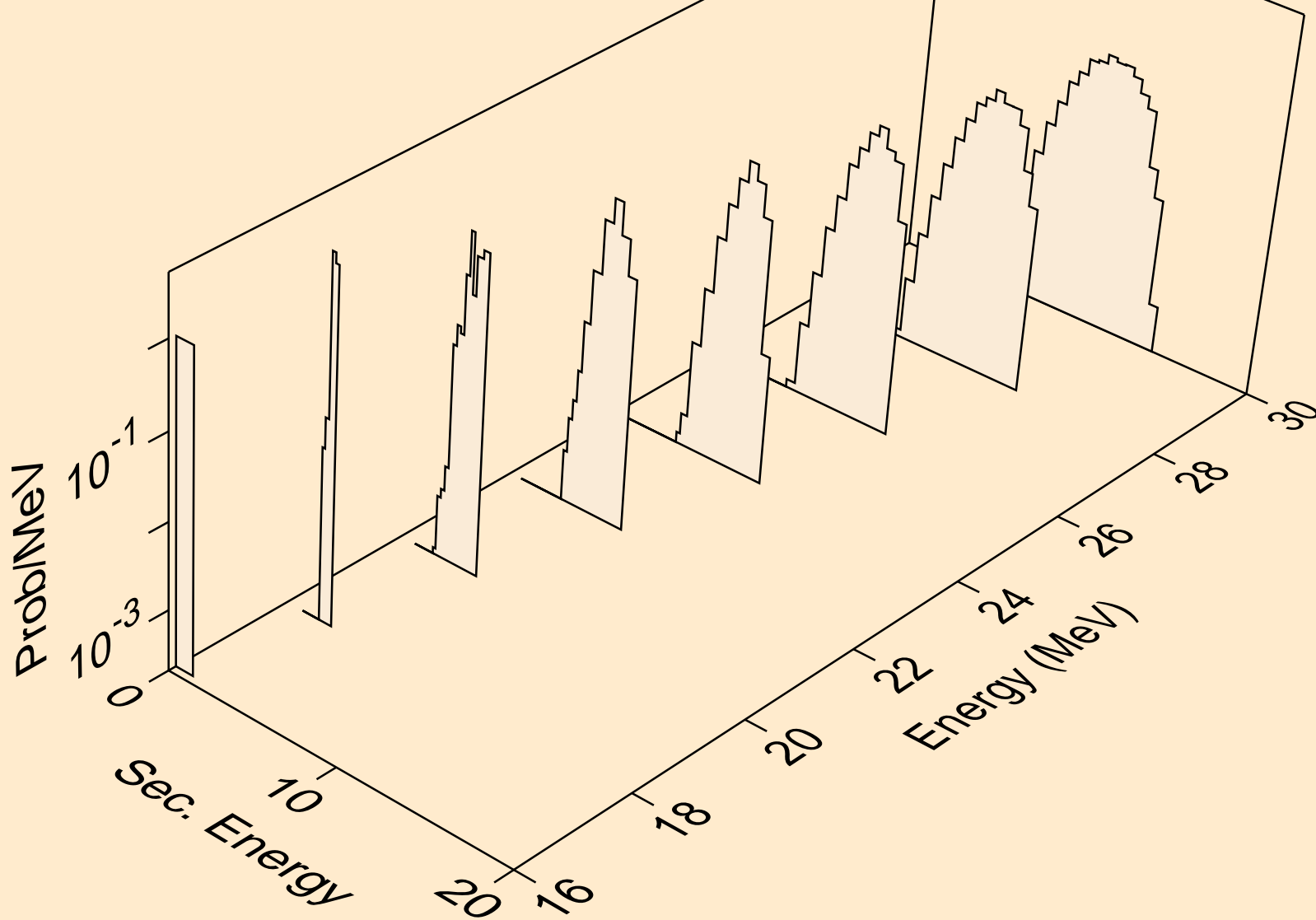
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,pt)



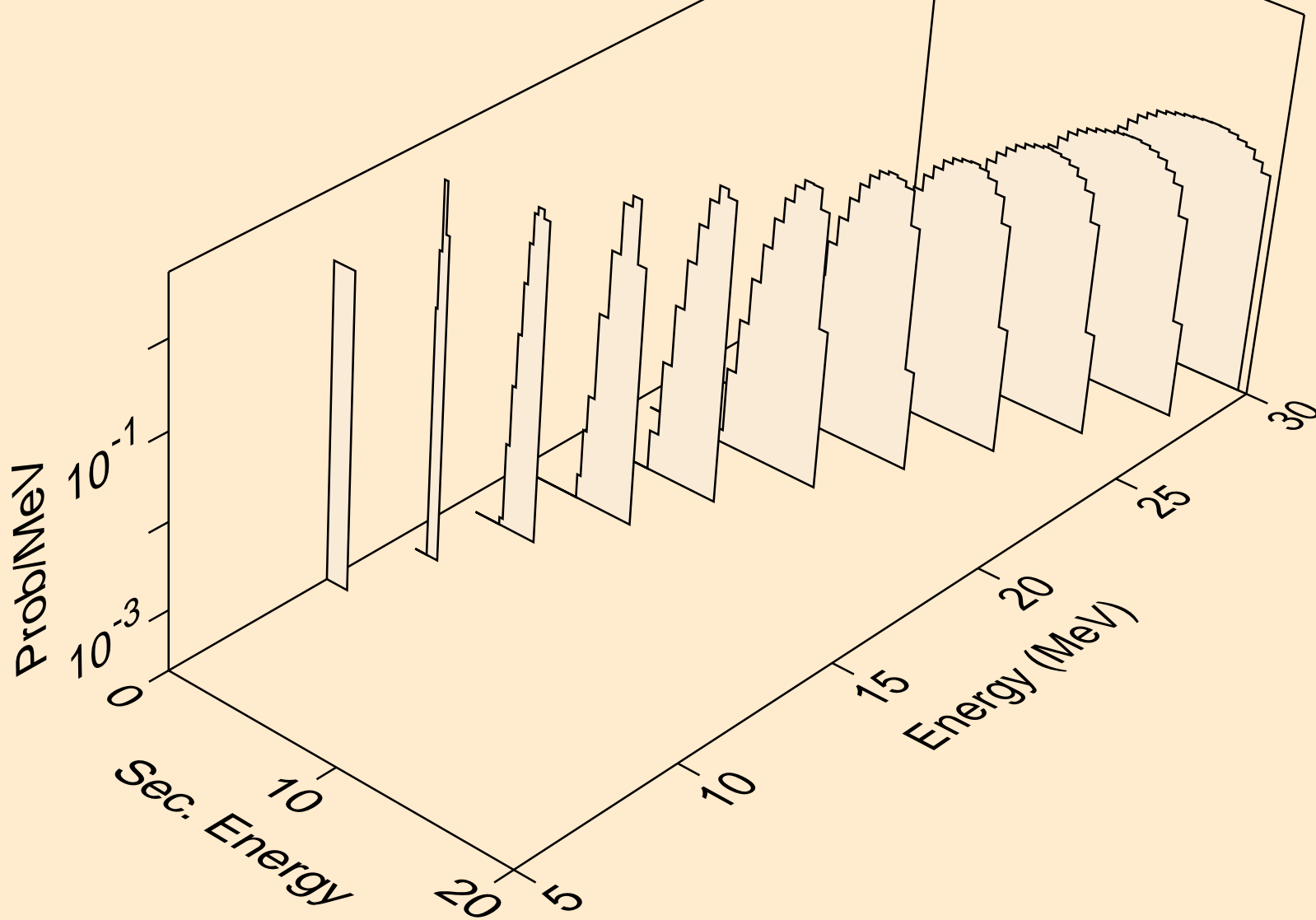
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
deuterons from (n,x)



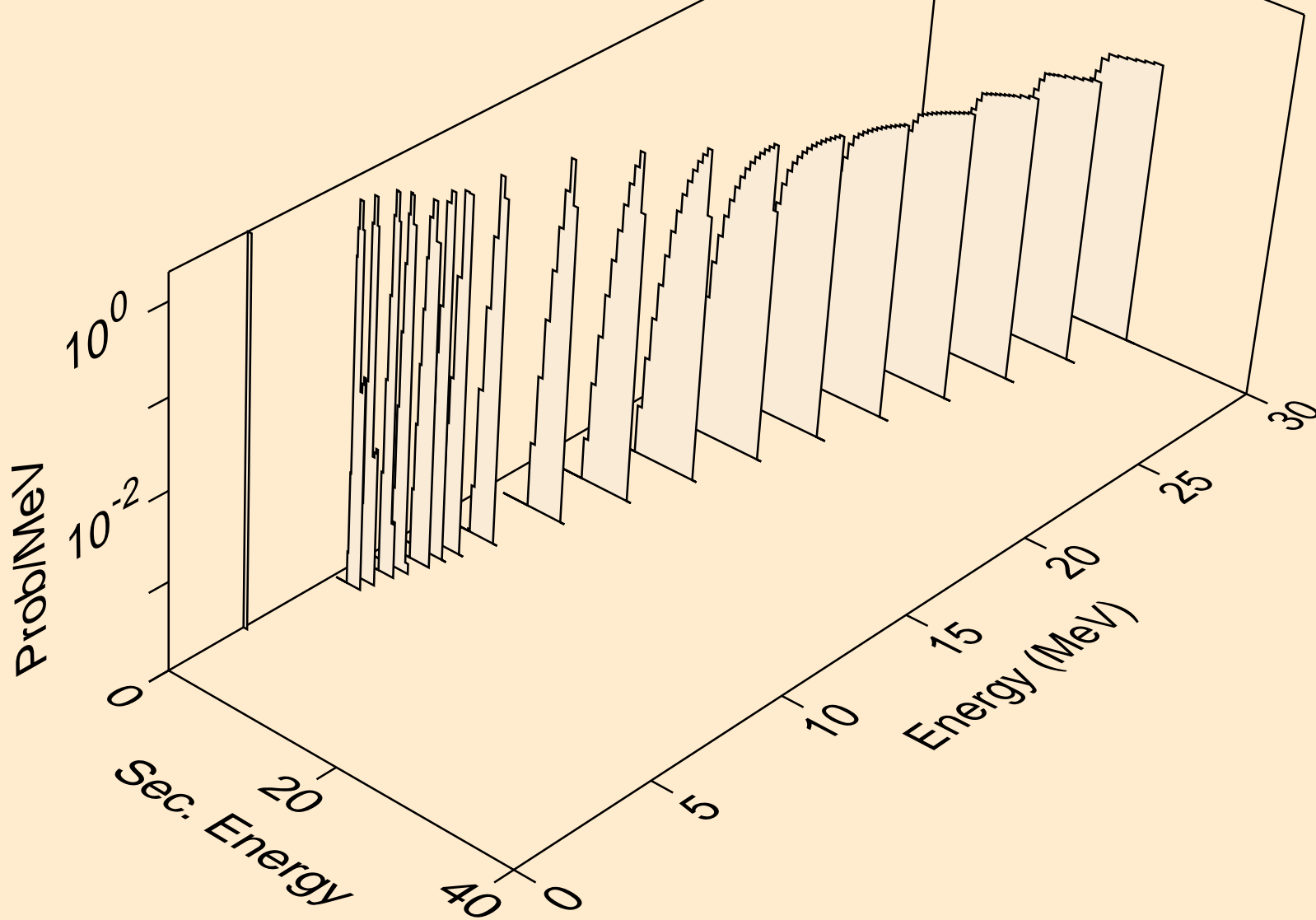
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
deuterons from (n,2nd)



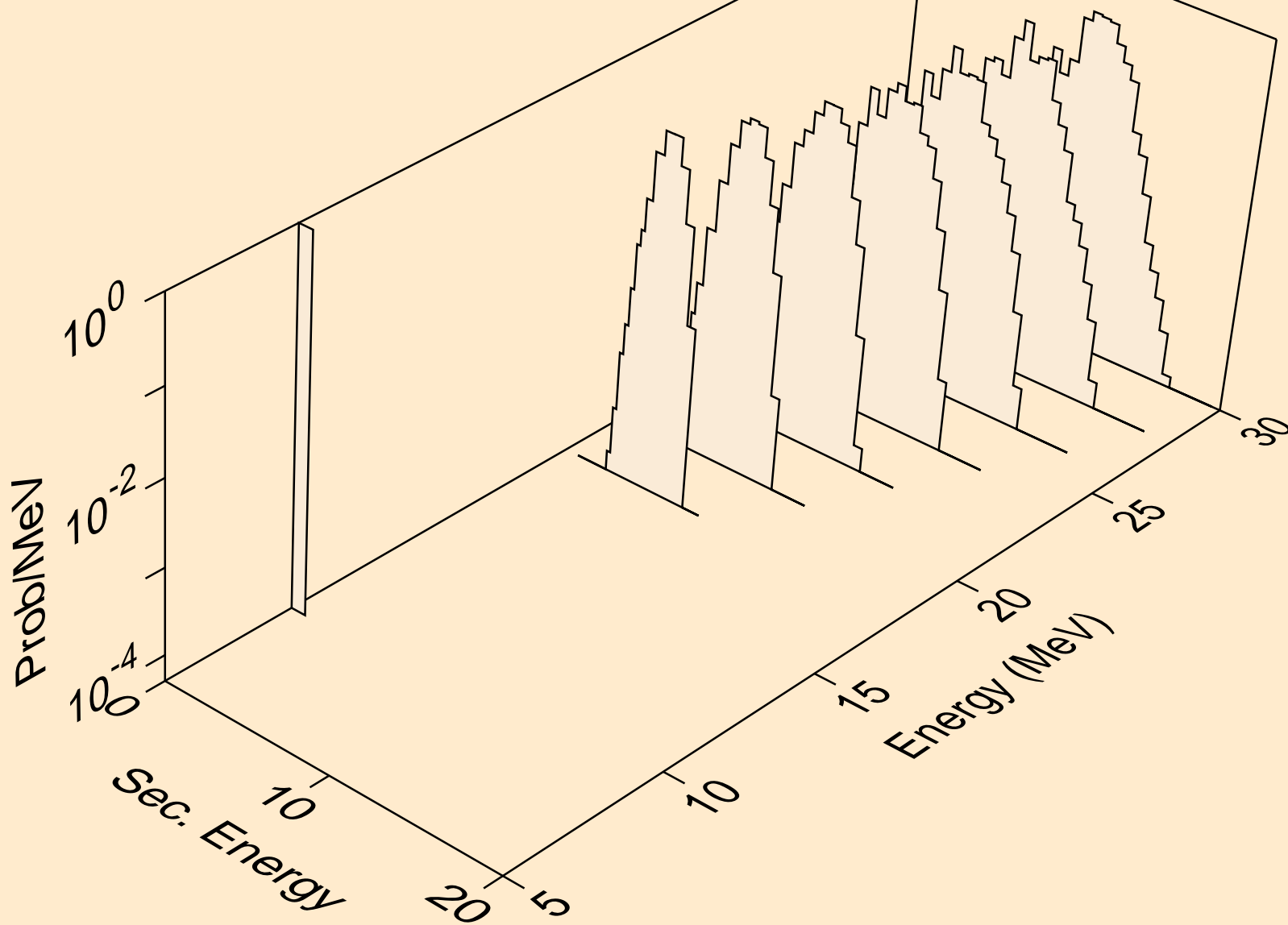
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
deuterons from (n,n*)d



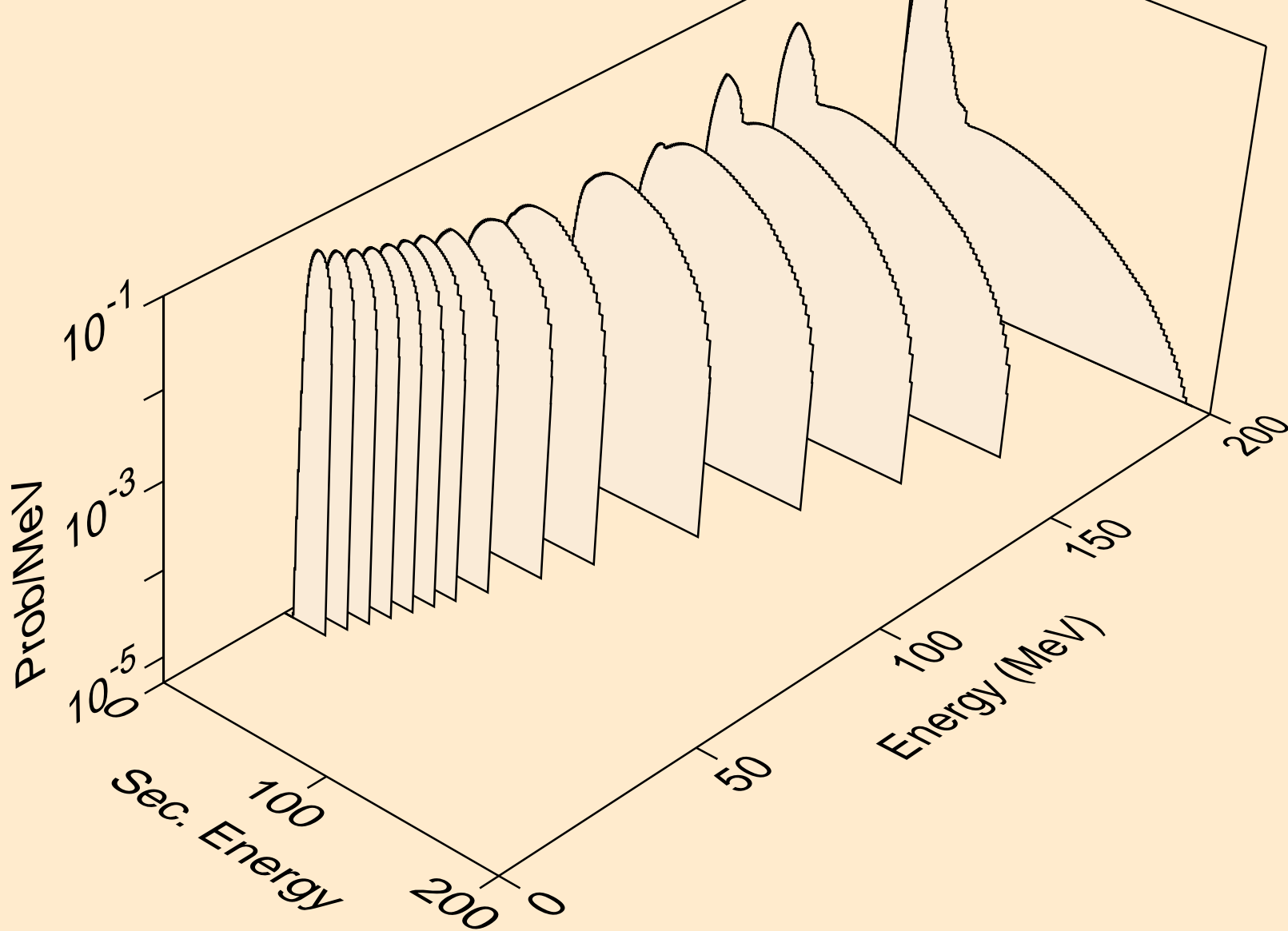
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
deuterons from (n,d)



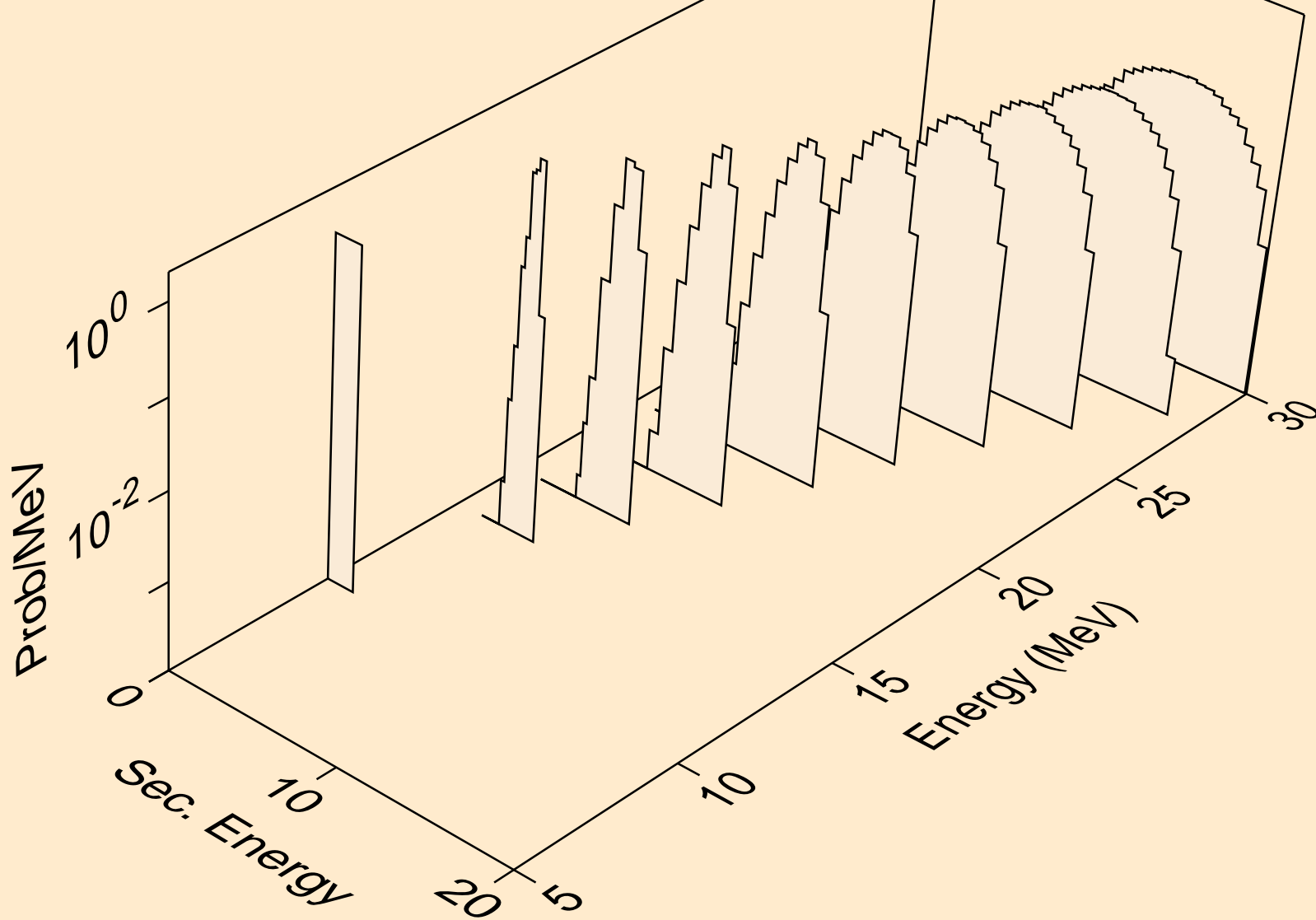
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
deuterons from (n,pd)



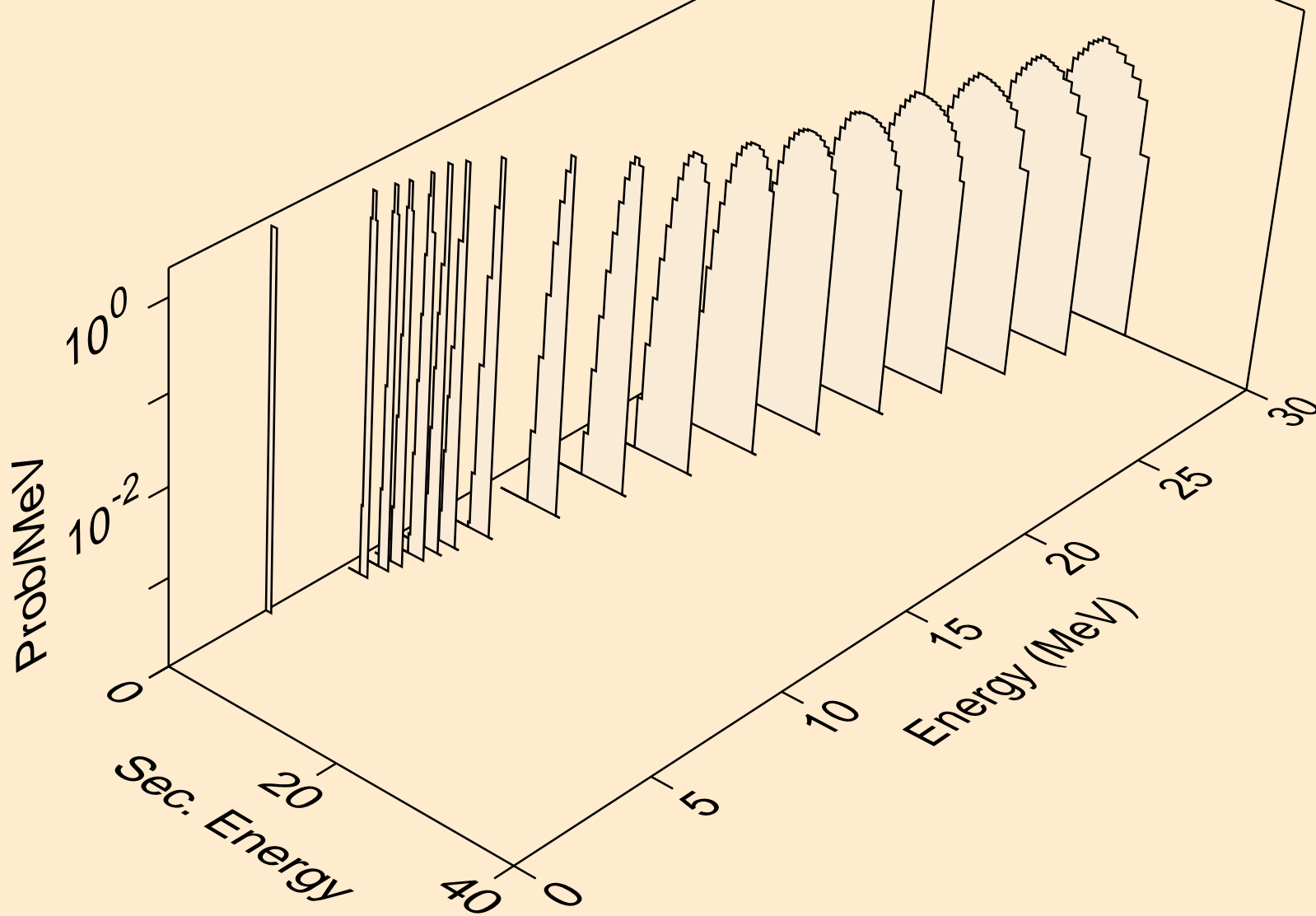
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
tritons from (n,x)



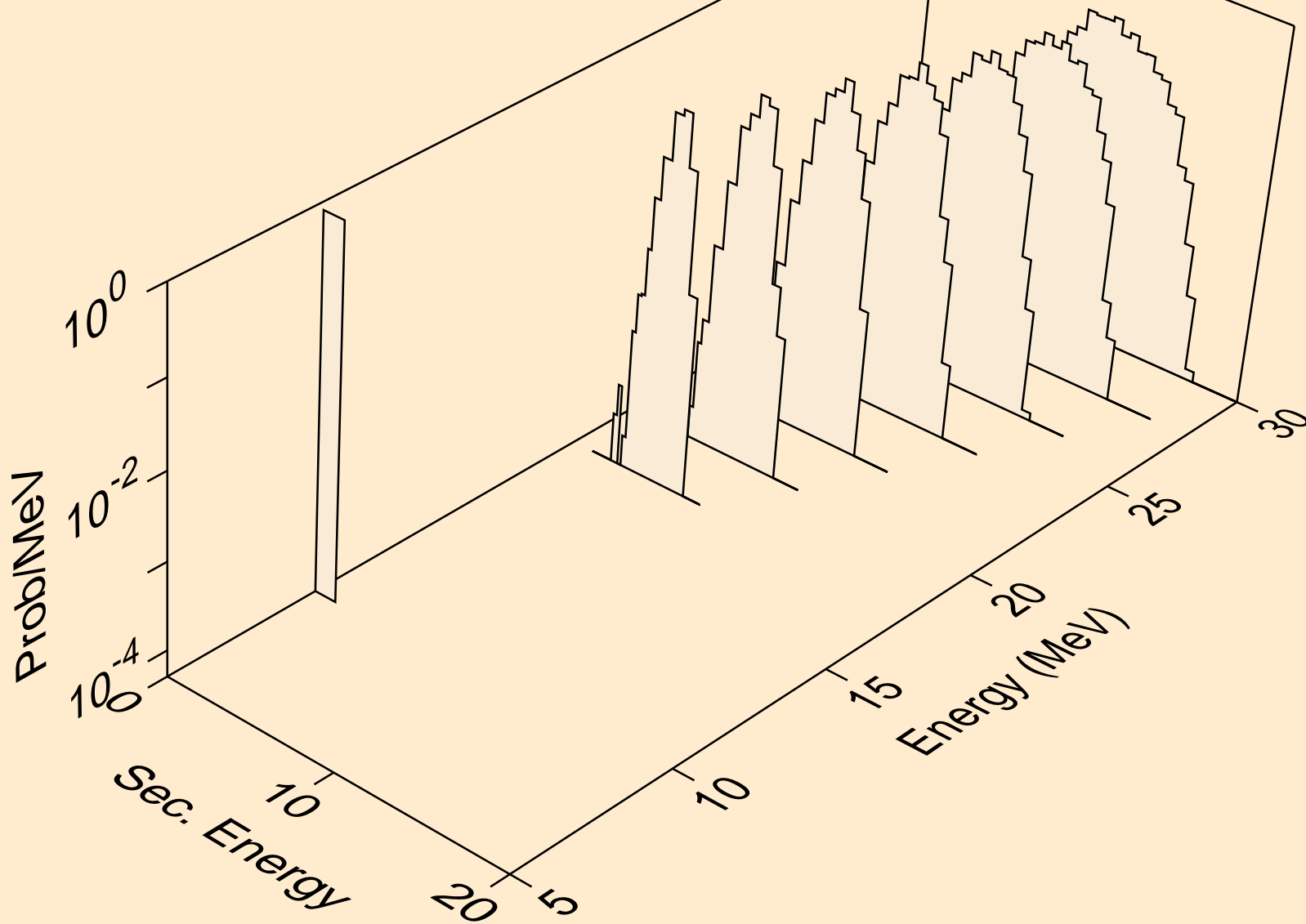
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
tritons from (n,n*)t



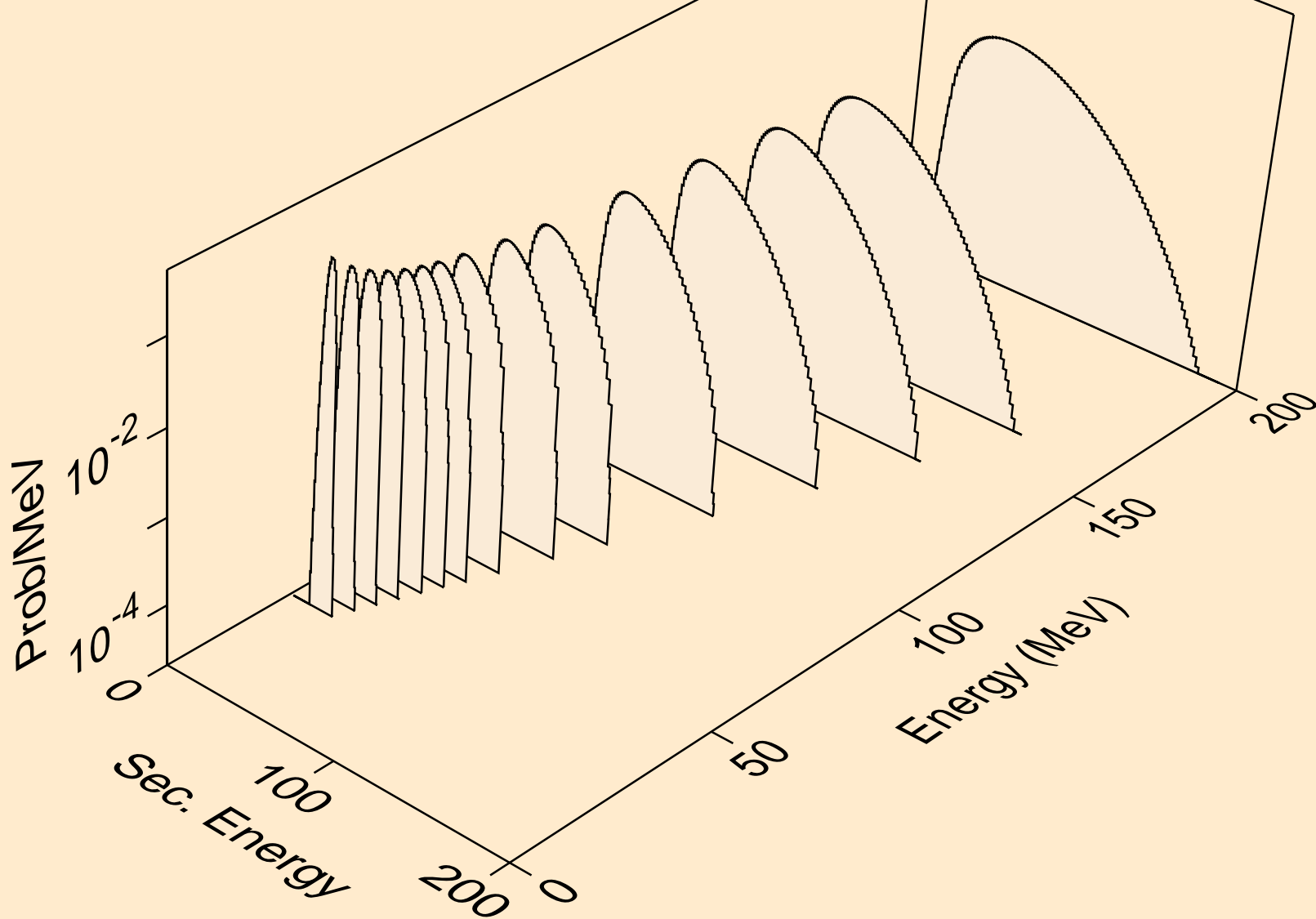
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tritons from (n,t)



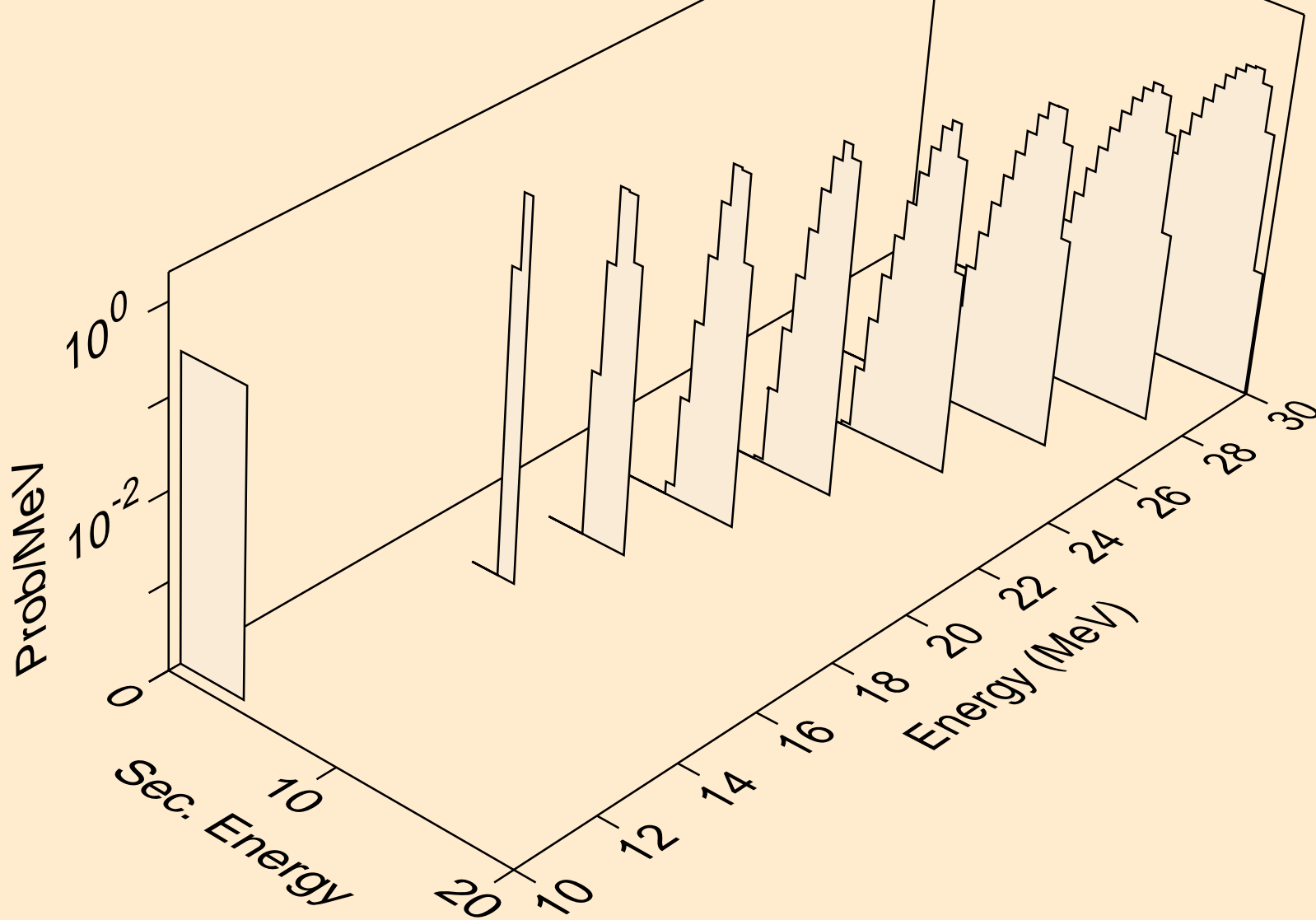
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
tritons from (n,pt)



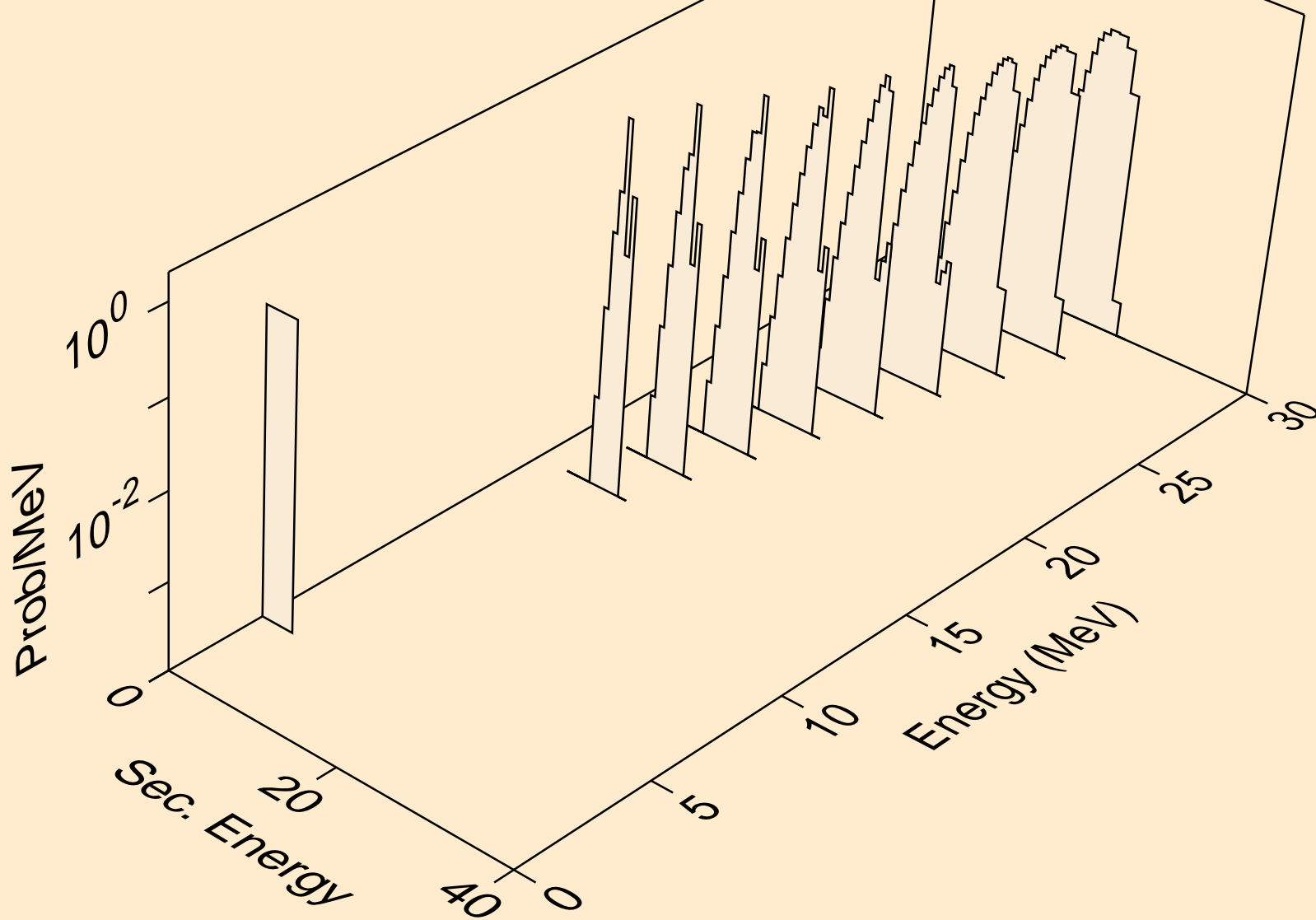
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
he3s from (n,x)



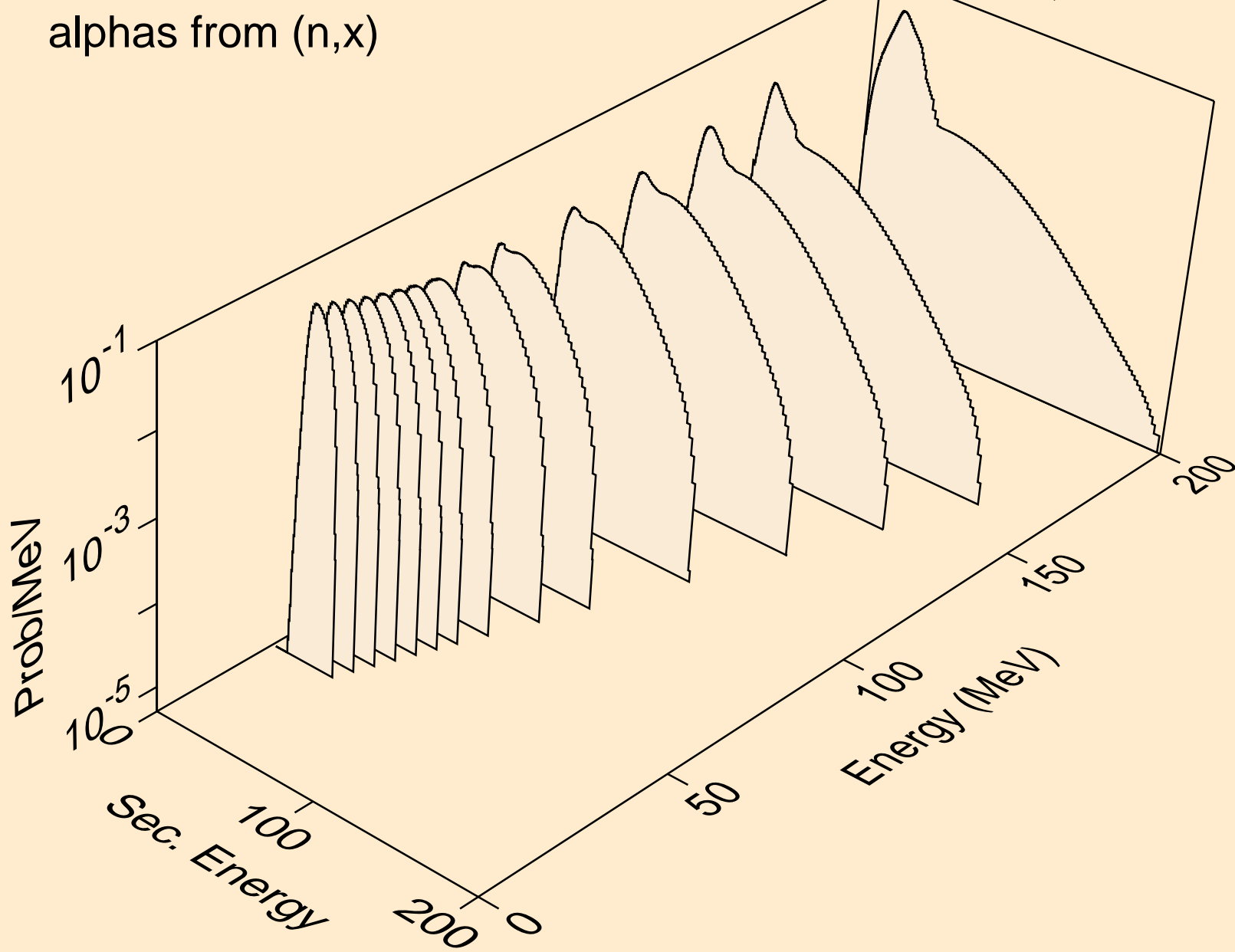
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he3s from (n,n*)he3



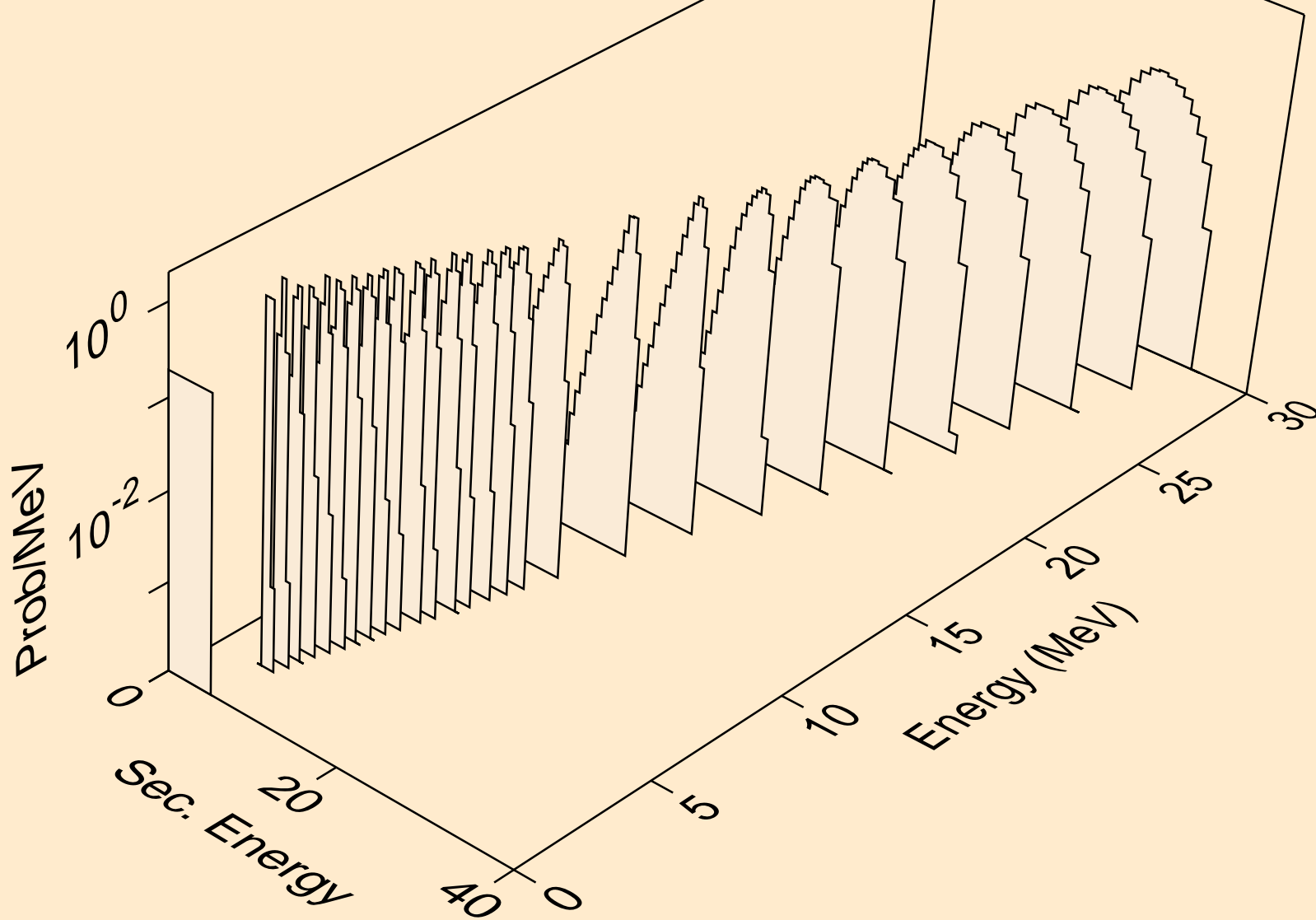
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
he3s from (n,he3)



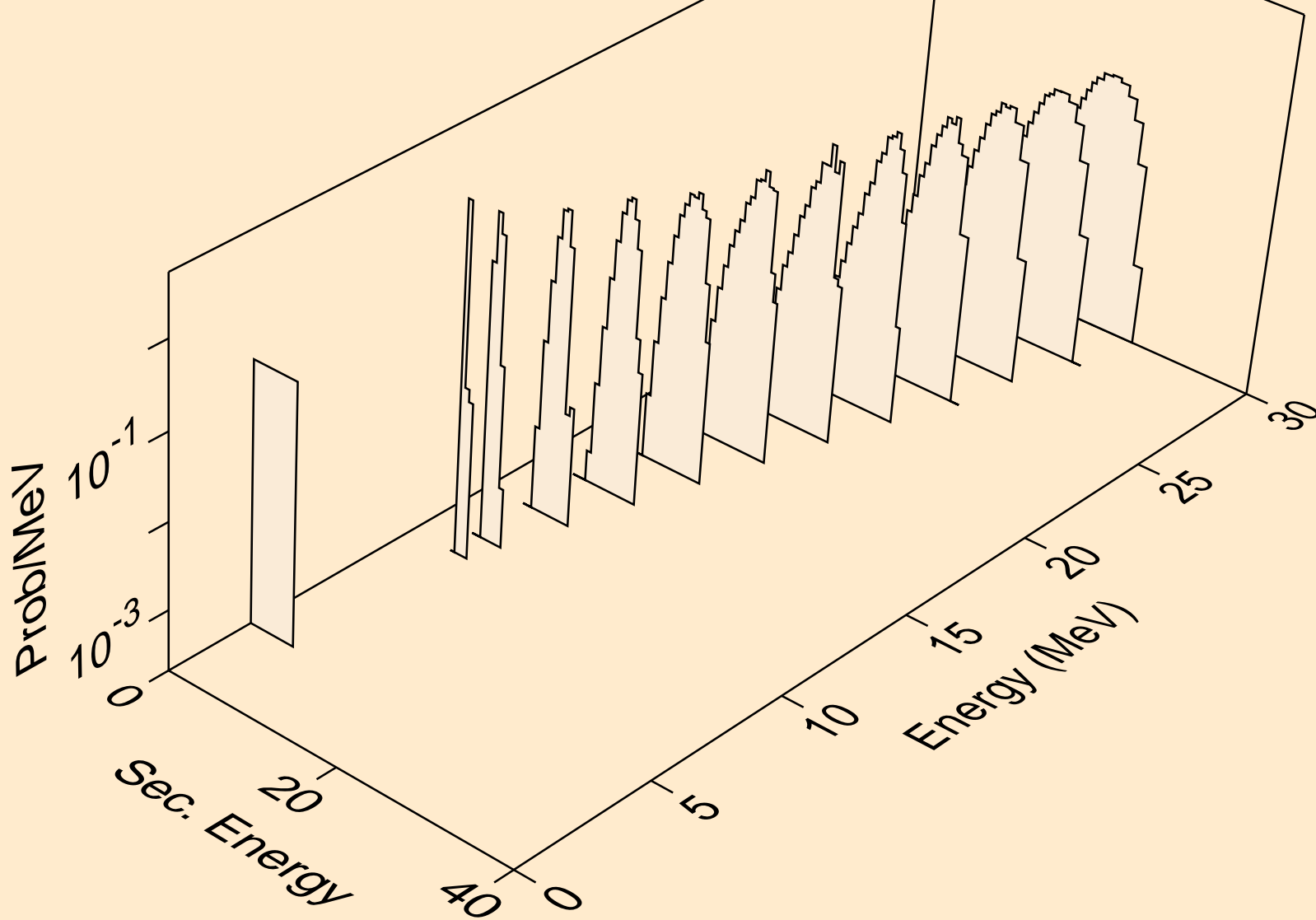
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,x)



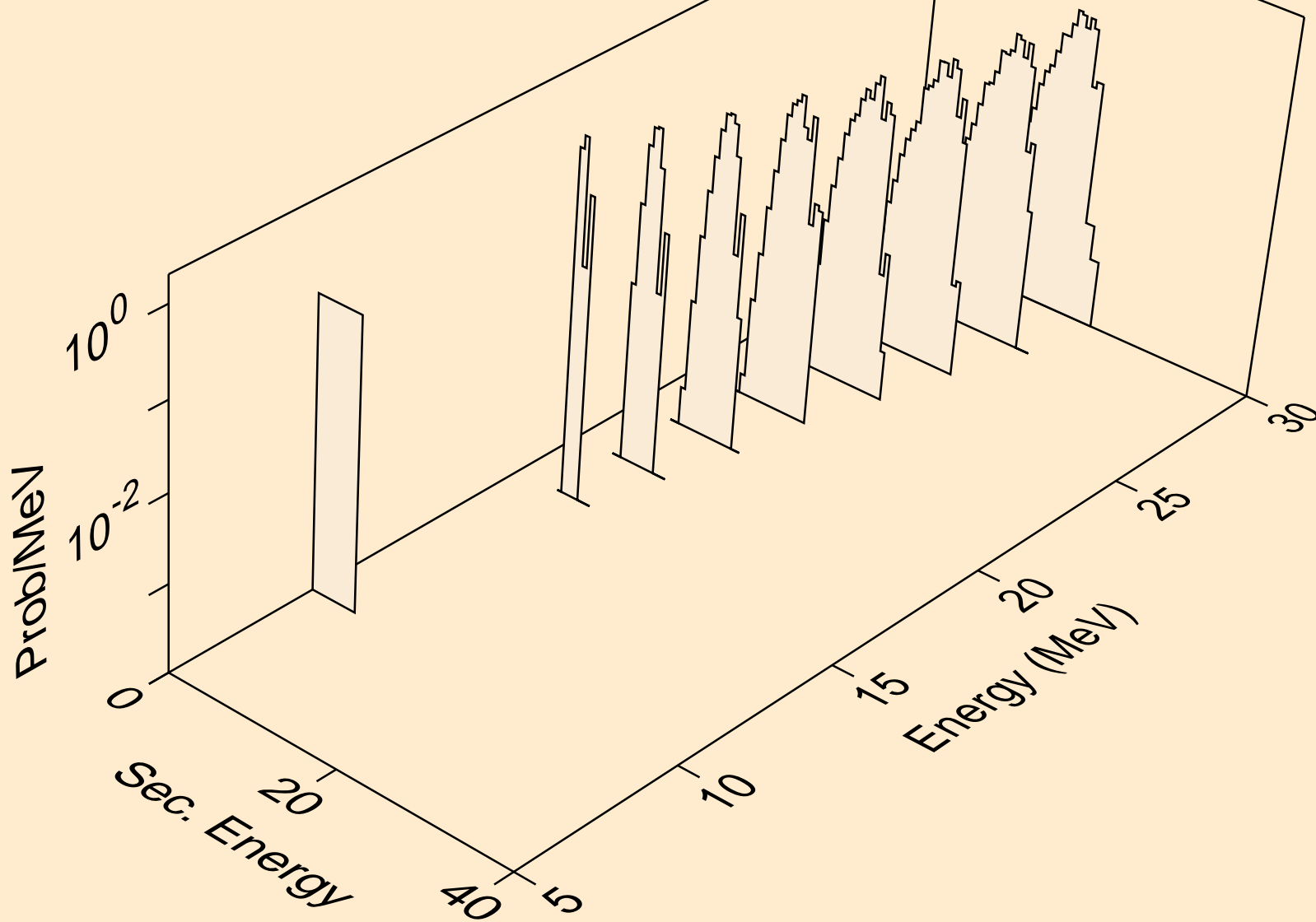
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,n*)a



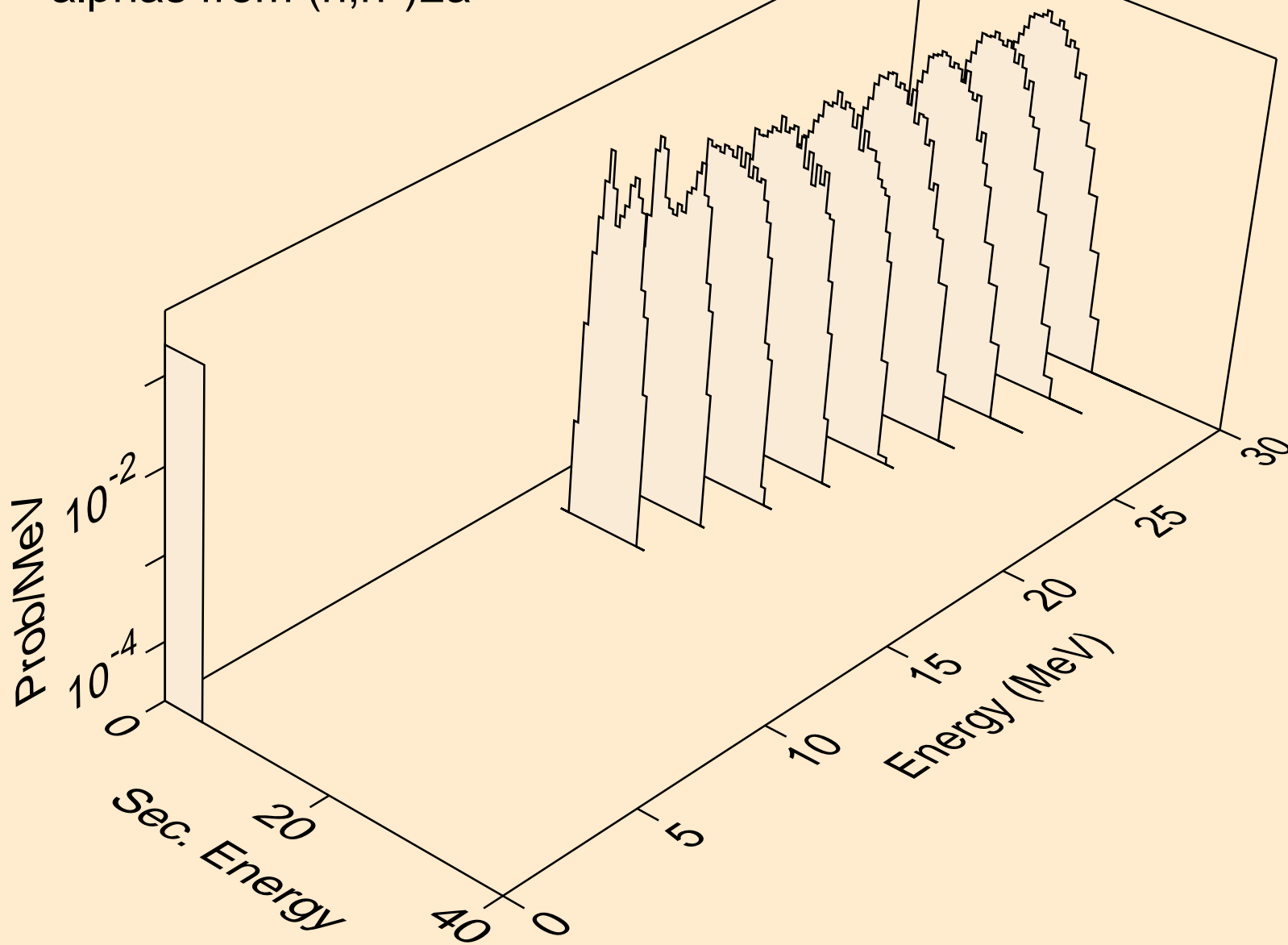
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,2n)a



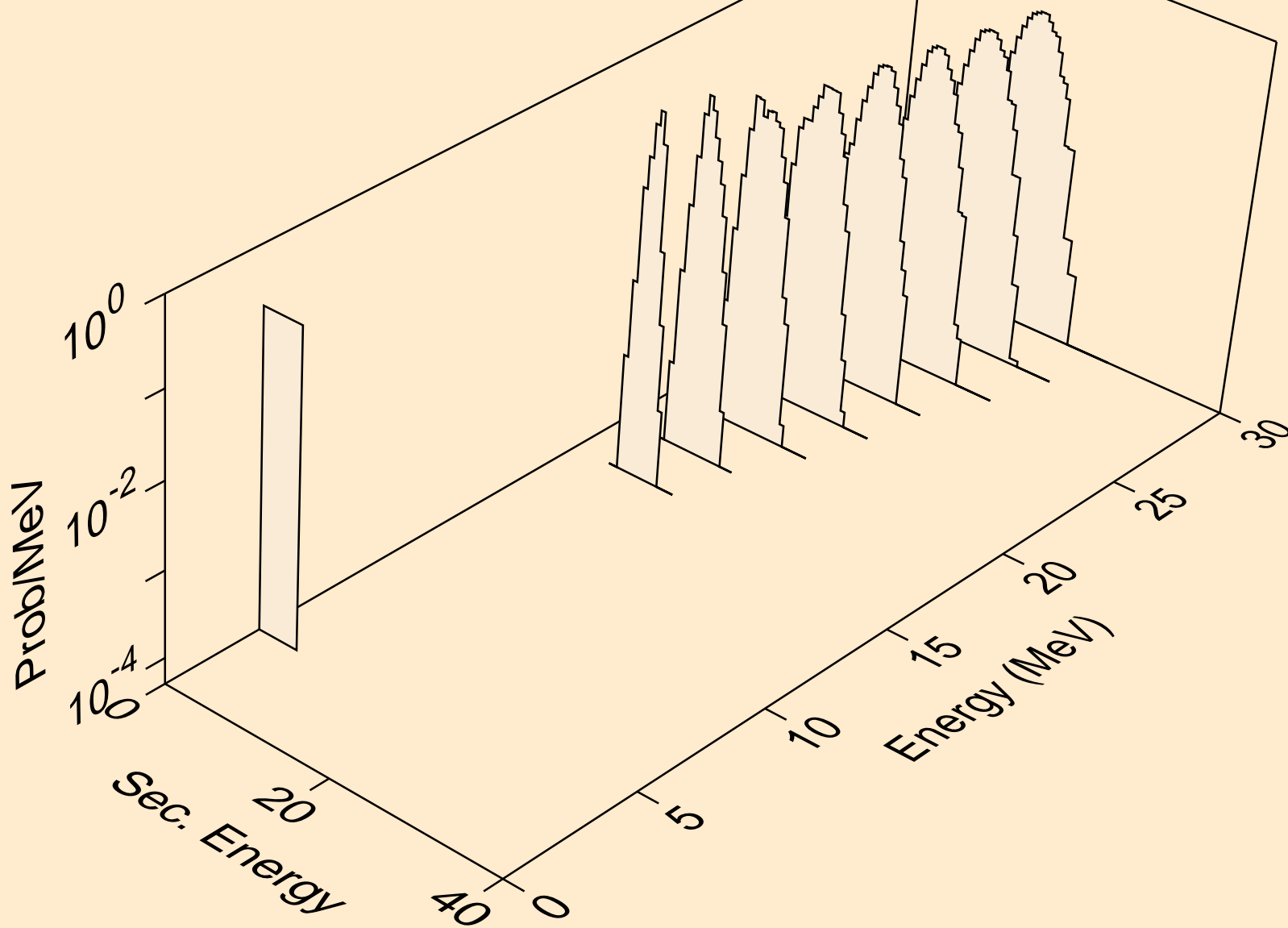
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,3n)a



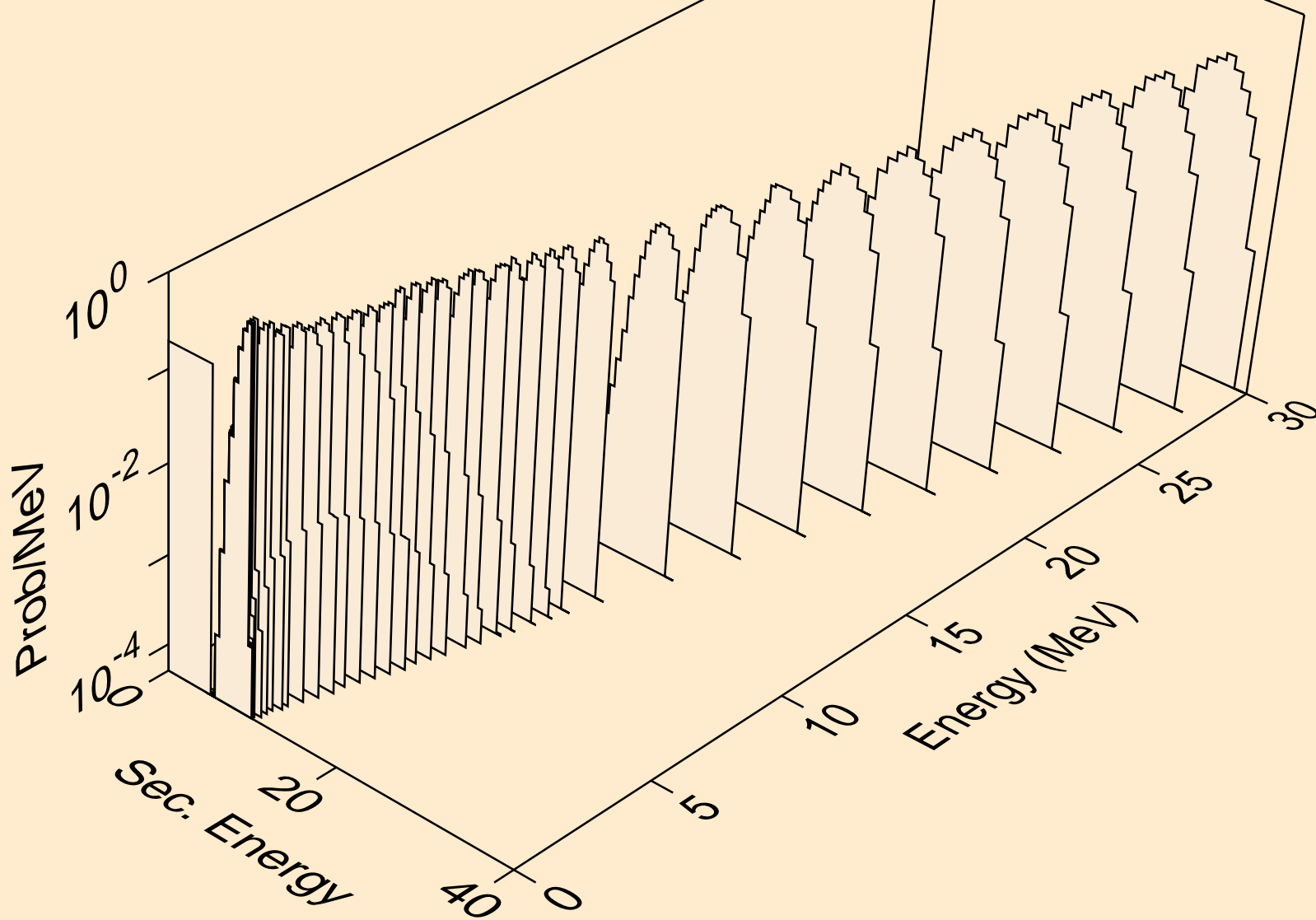
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,n*)2a



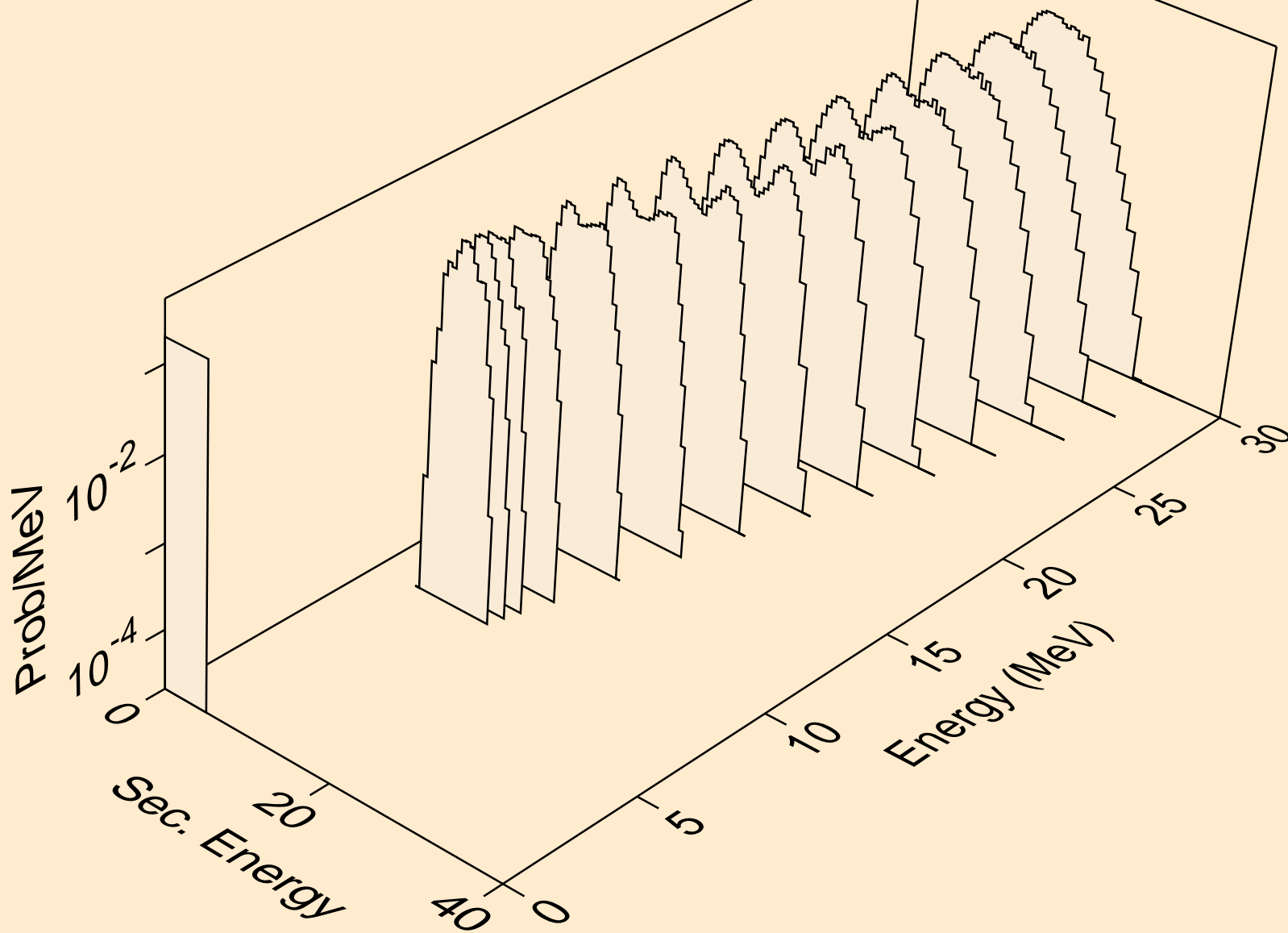
HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,npa)



HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,a)



HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,2a)



HF178N NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,pa)

