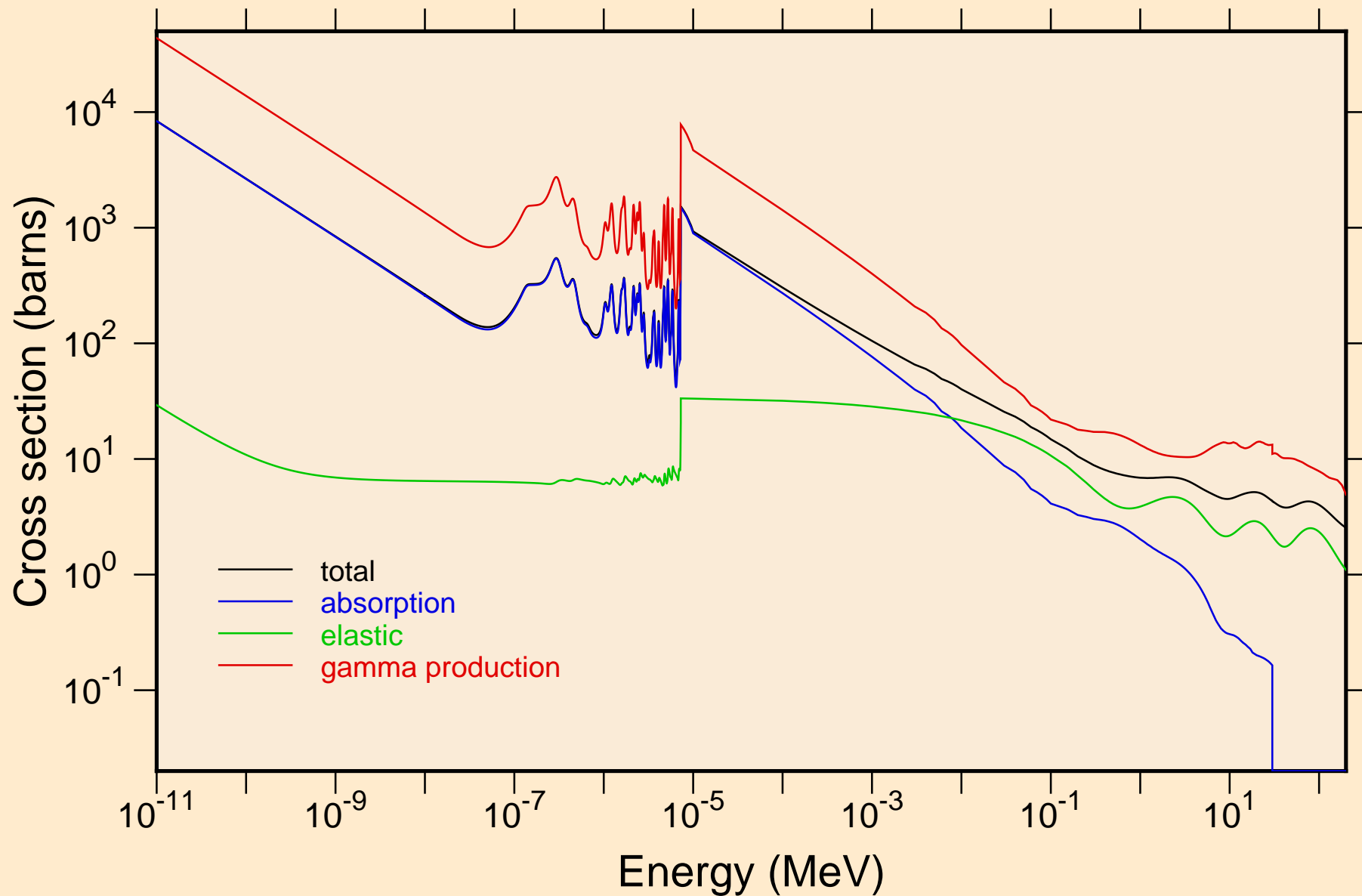
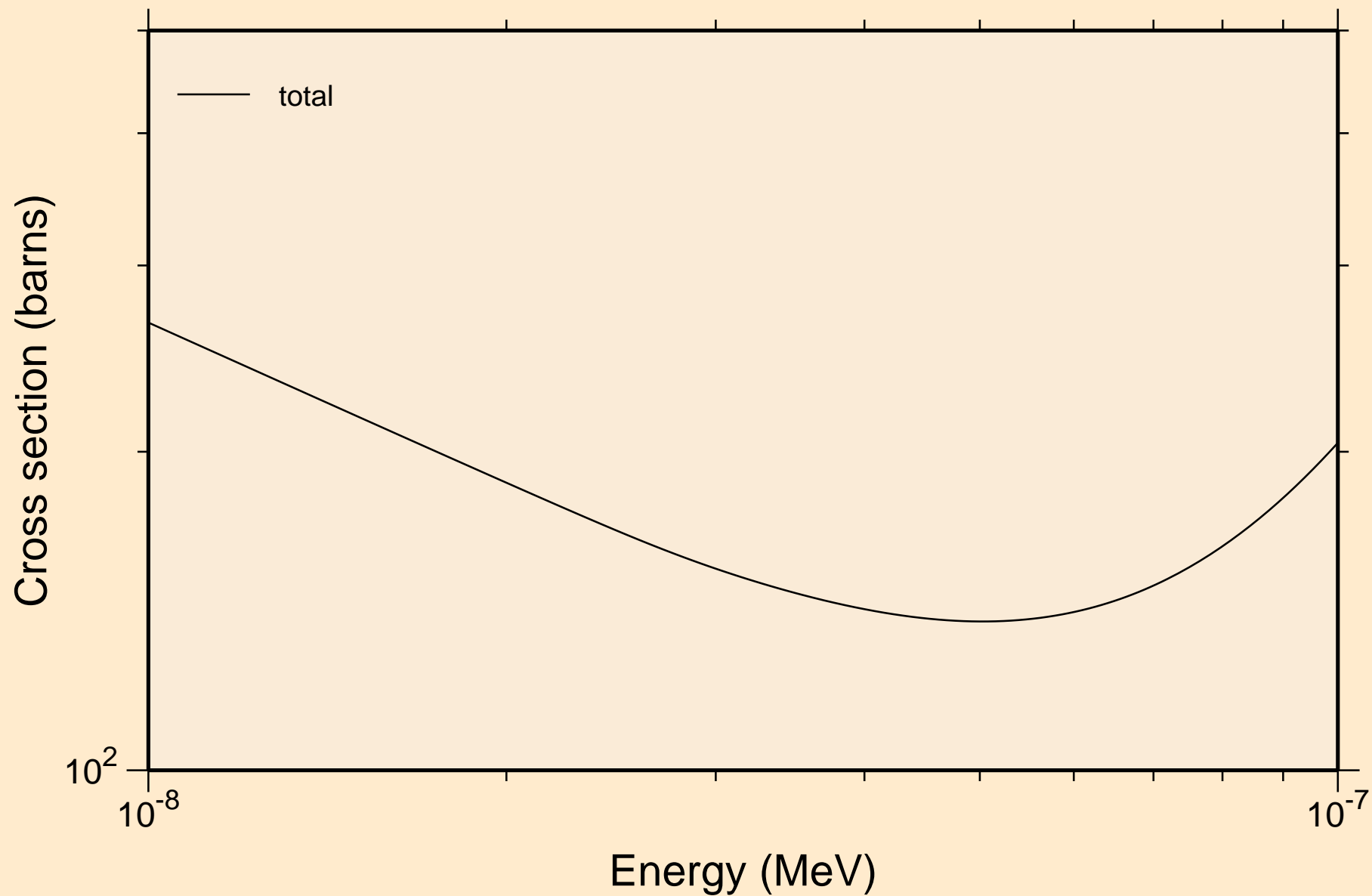


HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

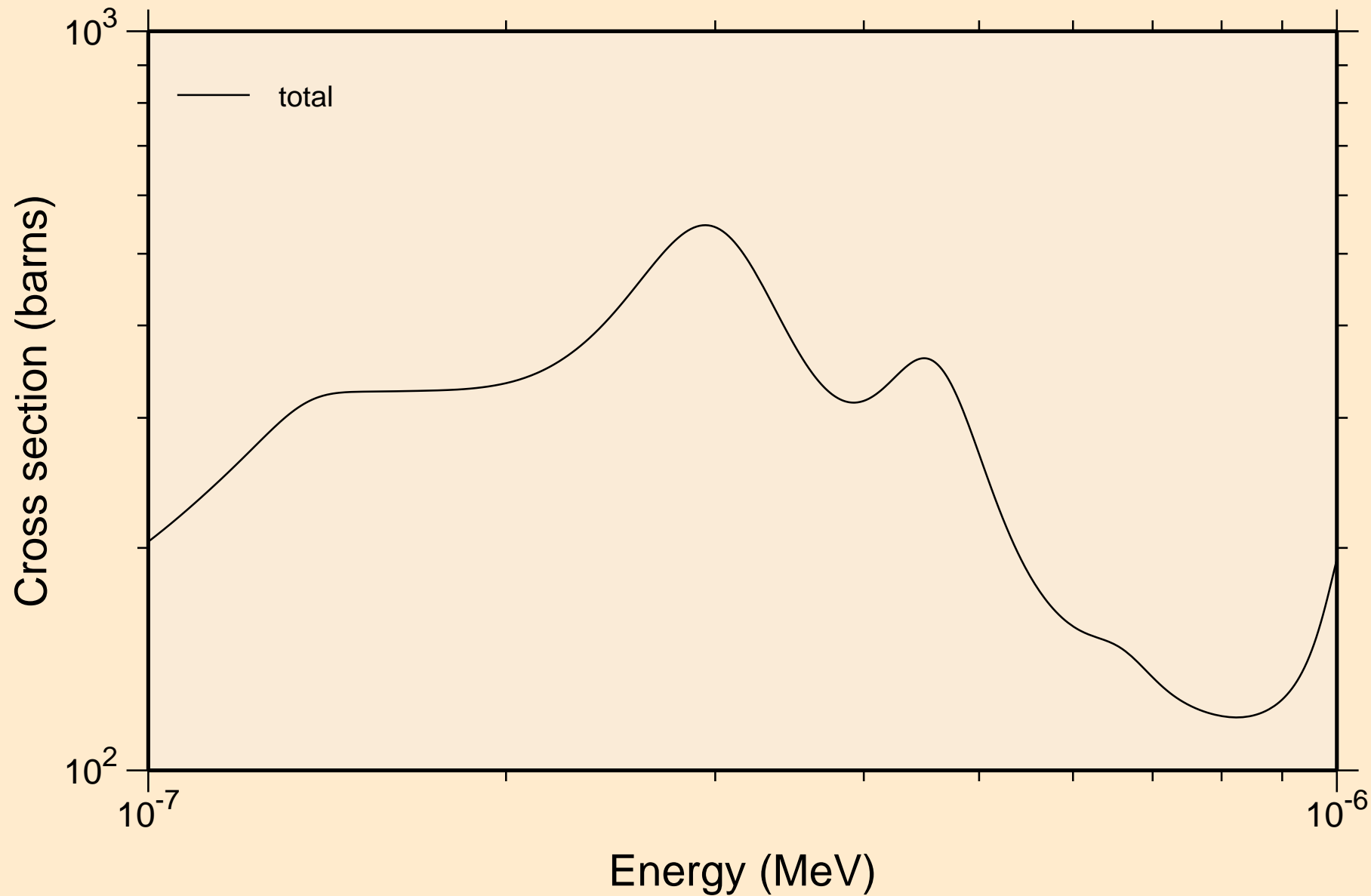
Principal cross sections



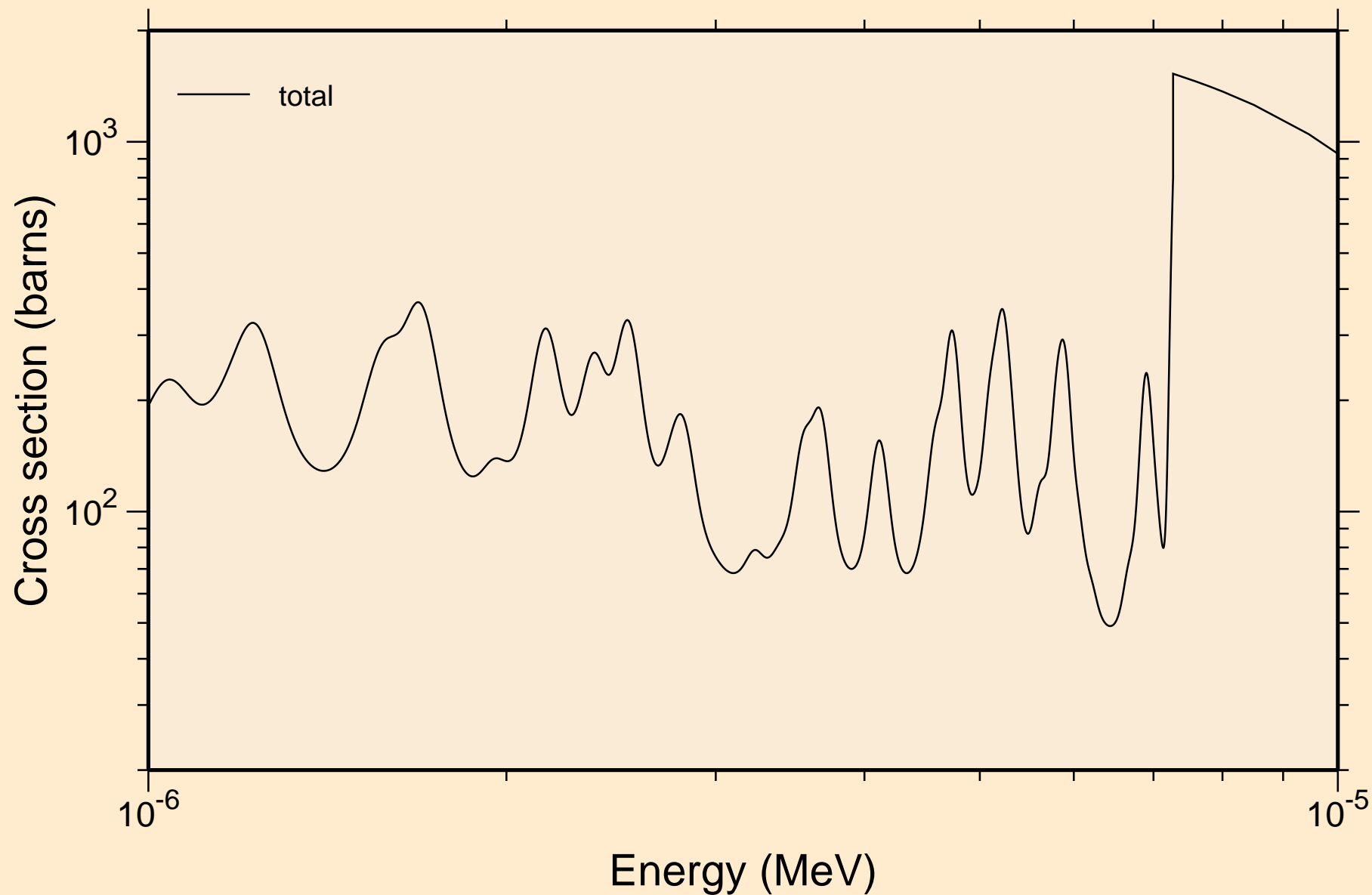
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resonance total cross section



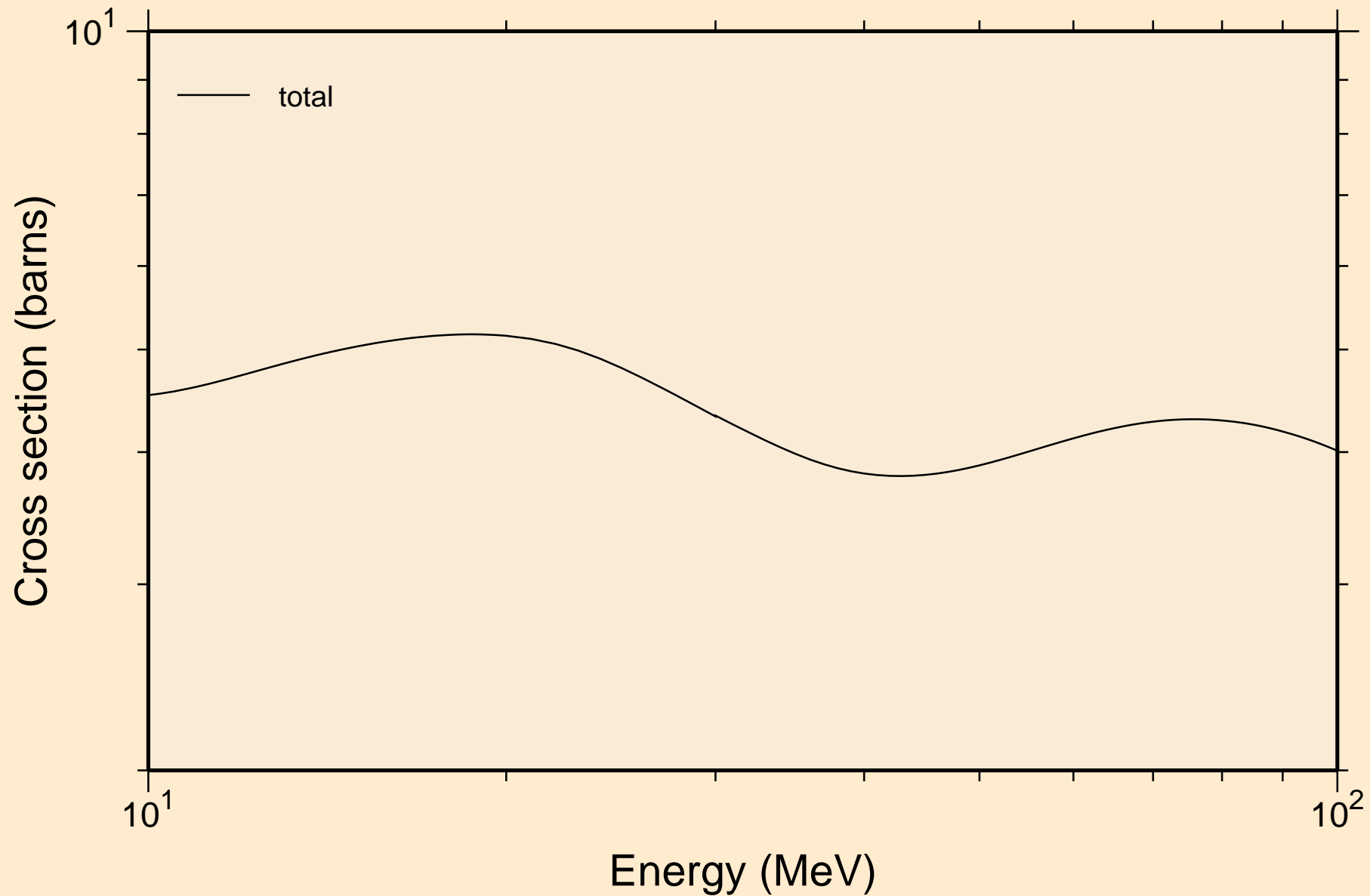
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
resonance total cross section



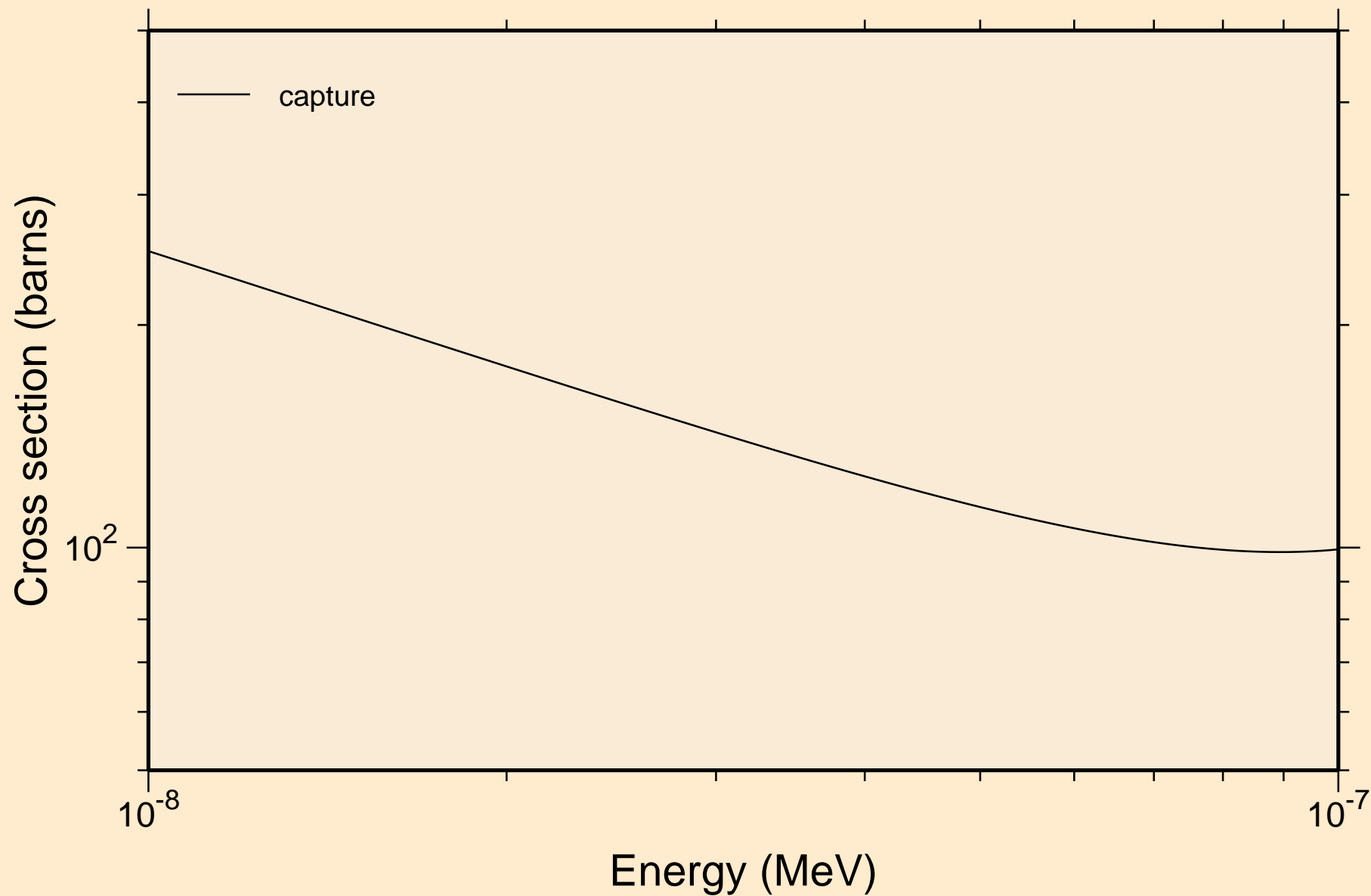
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resonance total cross section



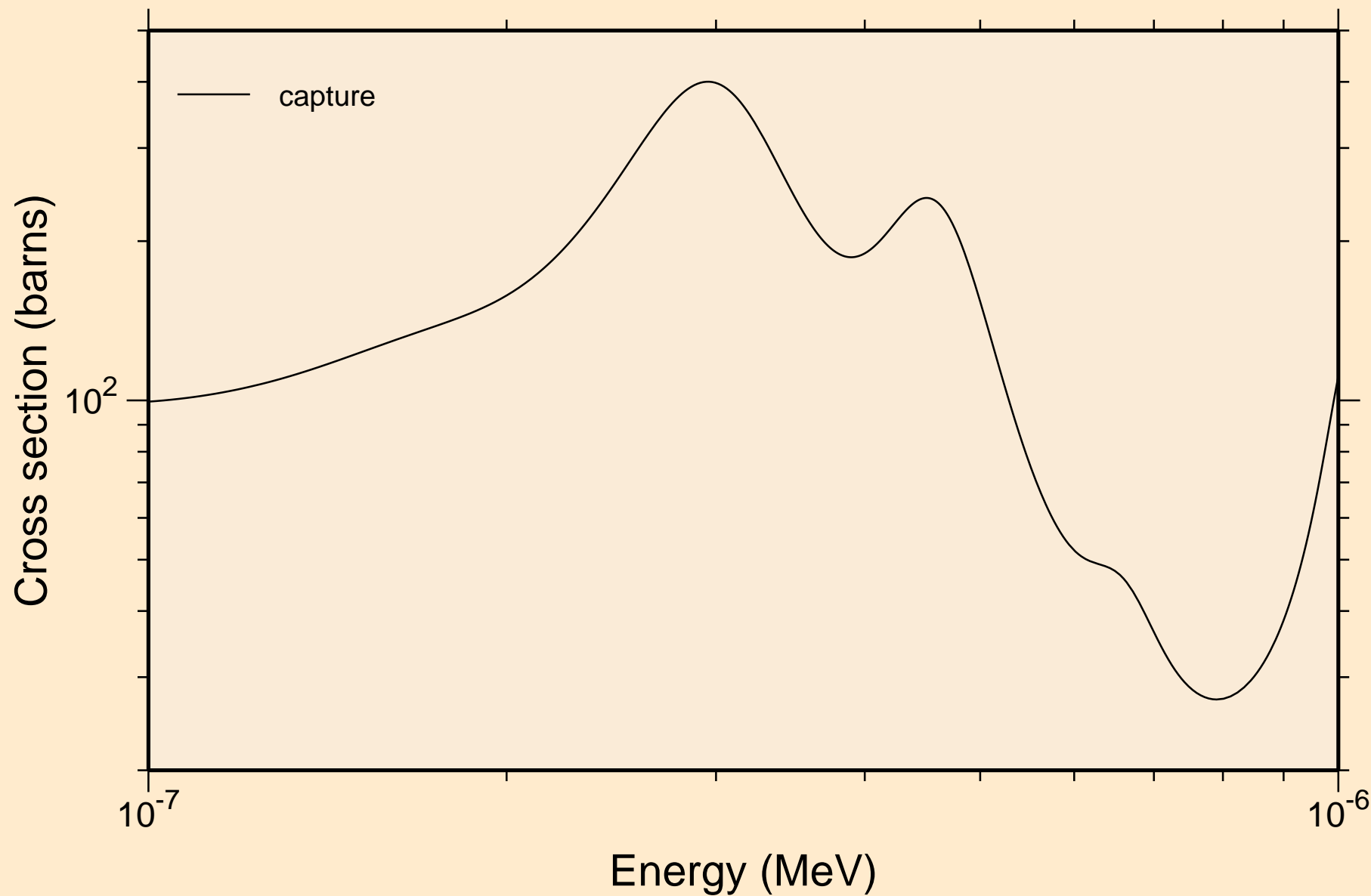
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
resonance total cross section



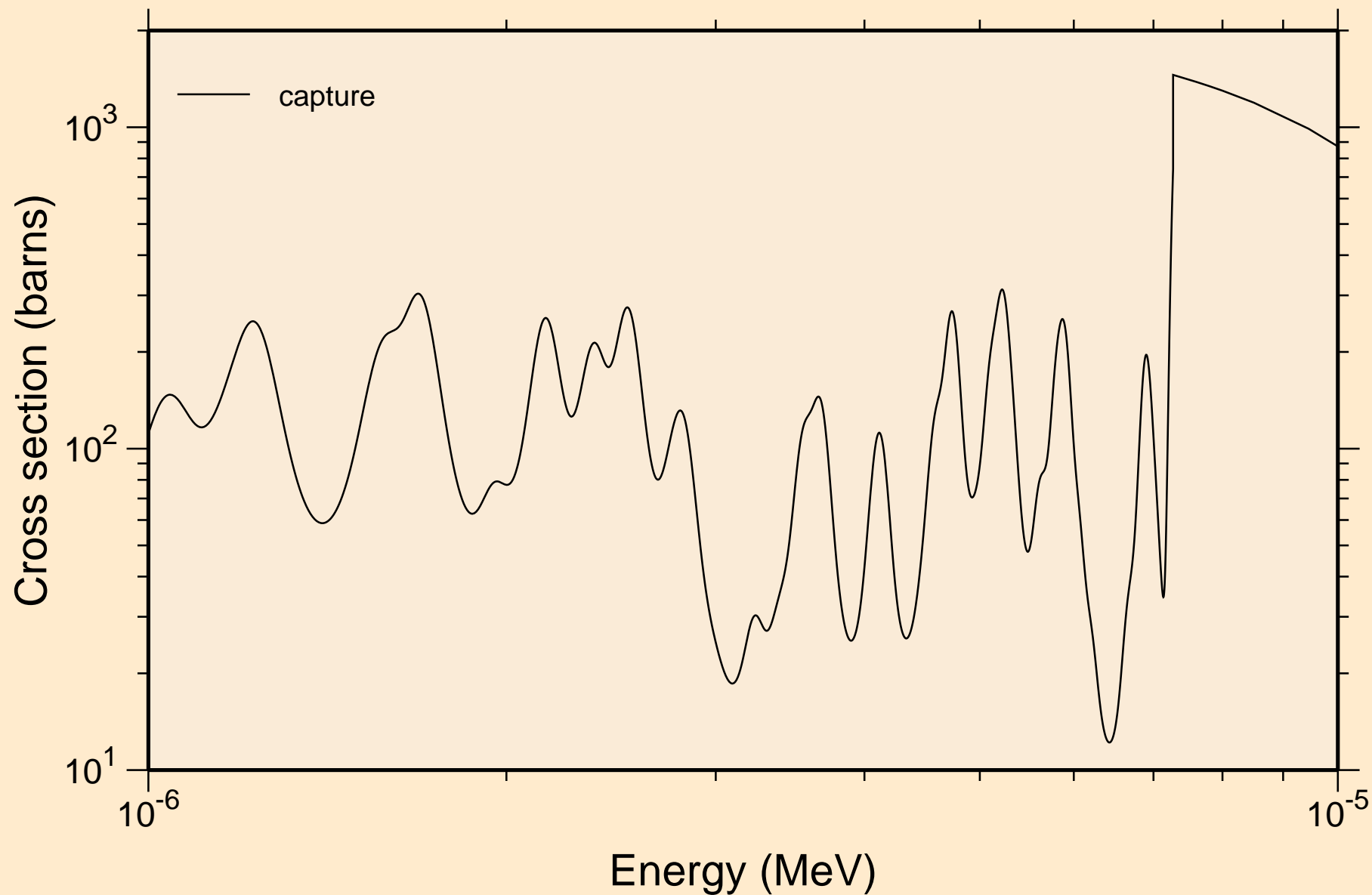
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
resonance absorption cross sections



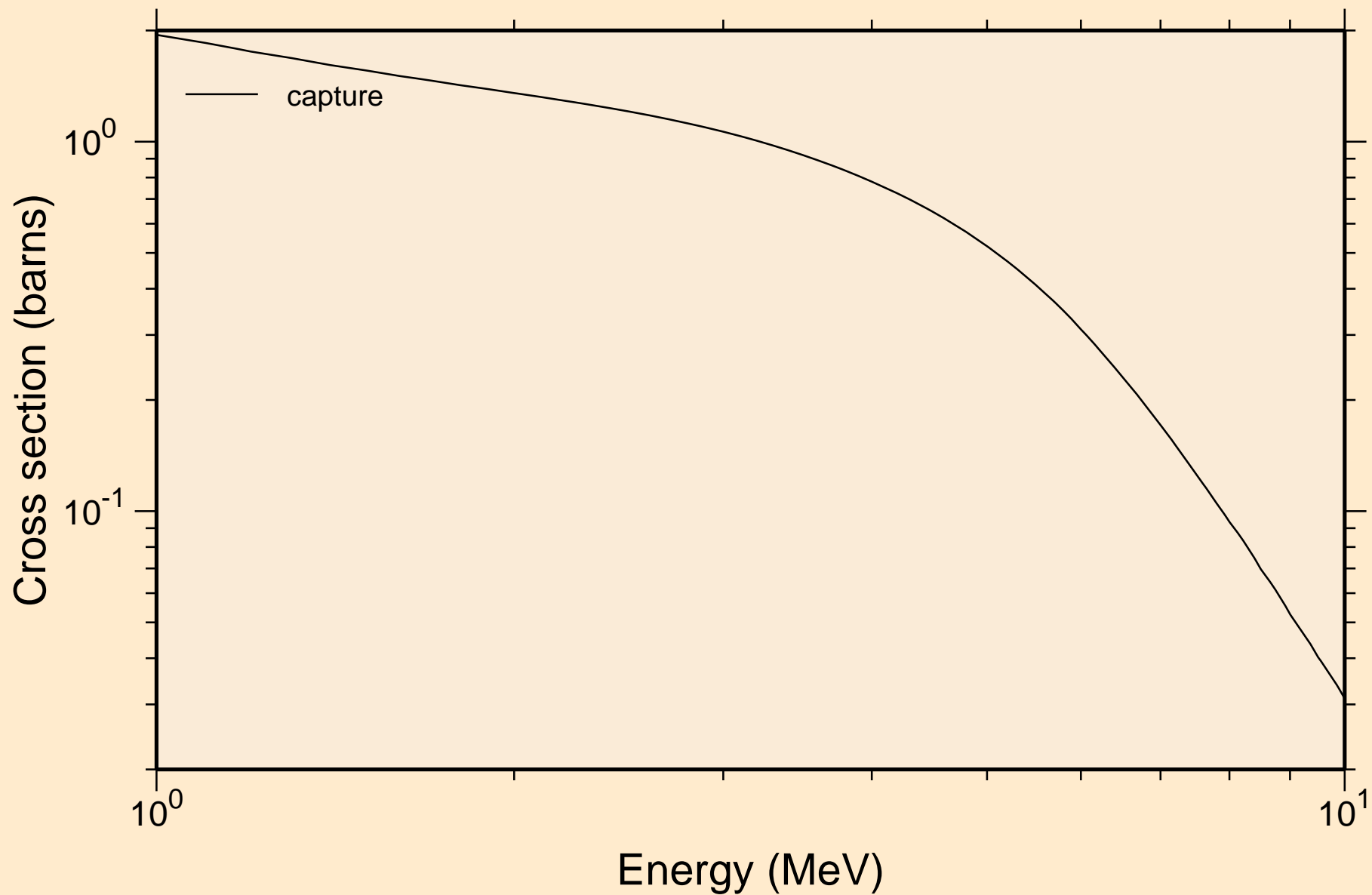
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
resonance absorption cross sections



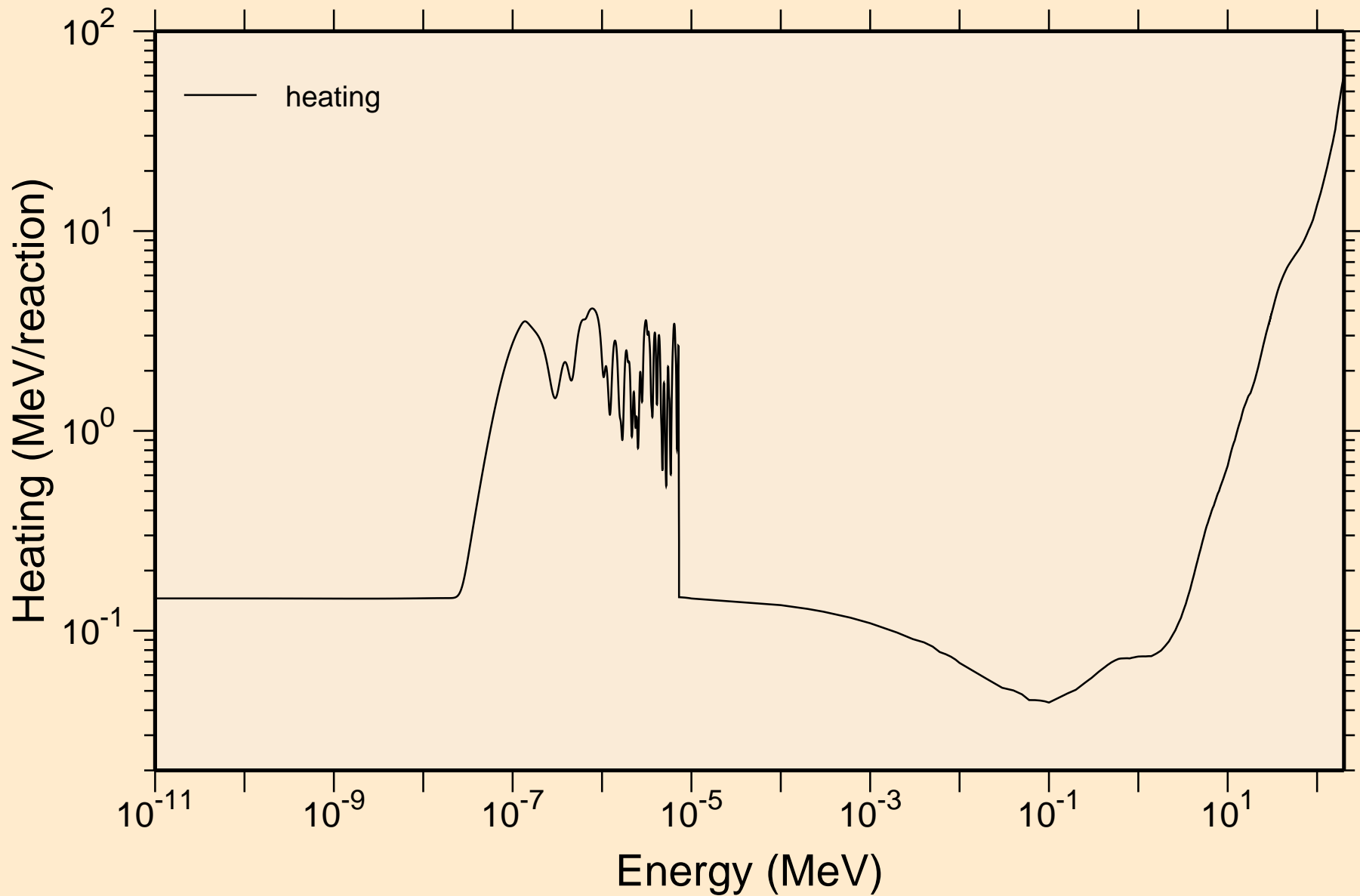
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
resonance absorption cross sections



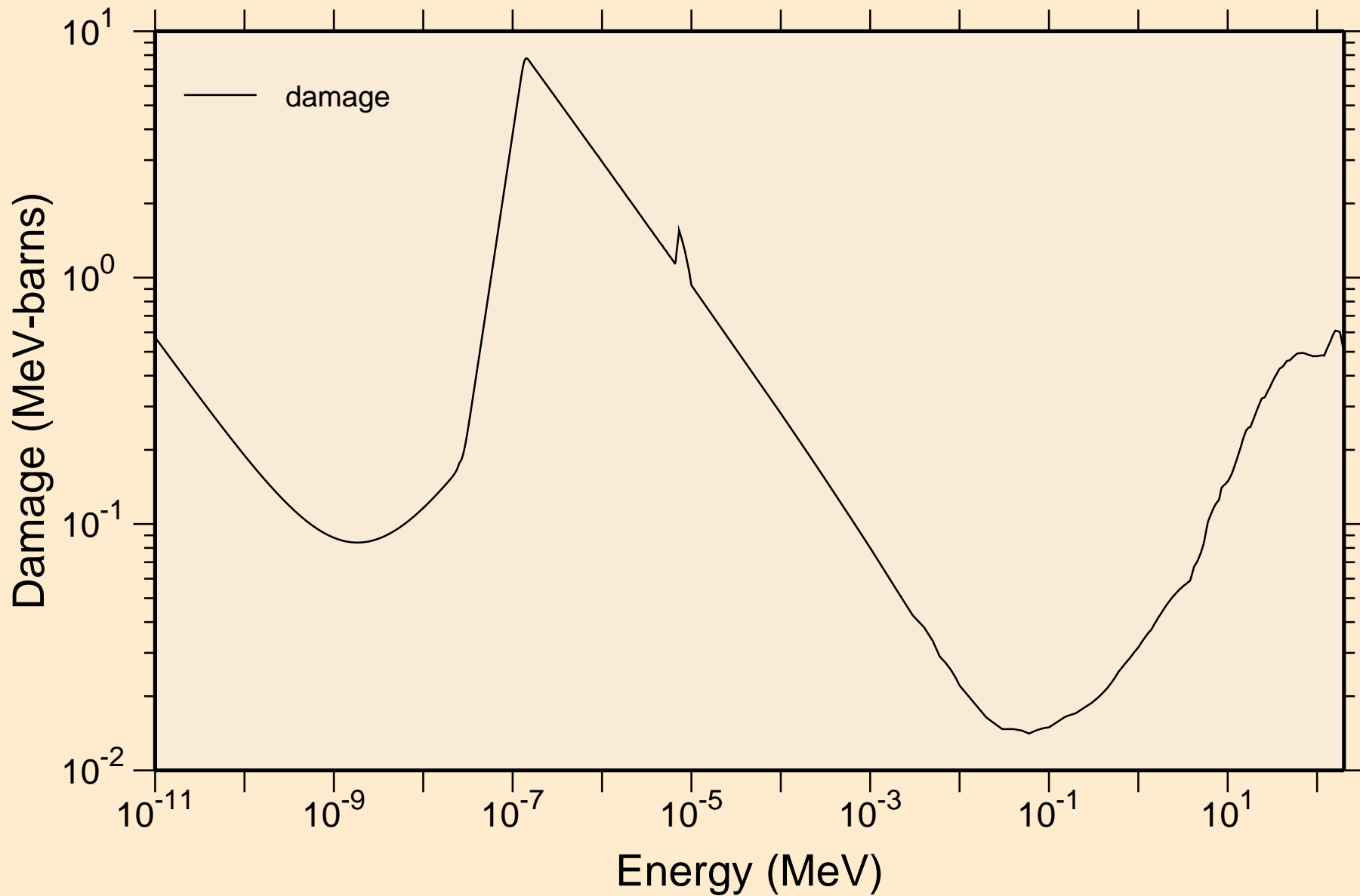
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
resonance absorption cross sections



HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Heating

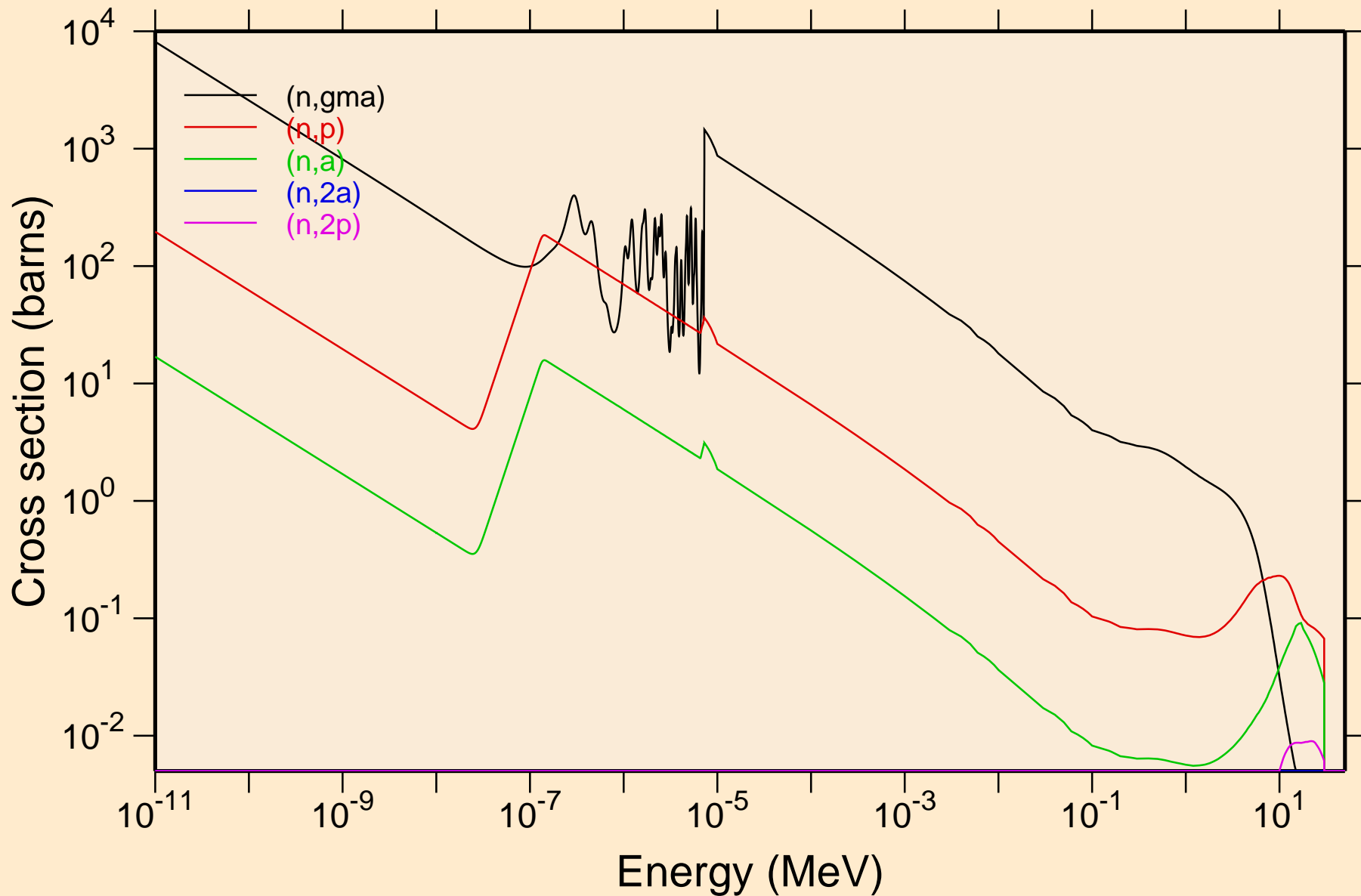


HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Damage

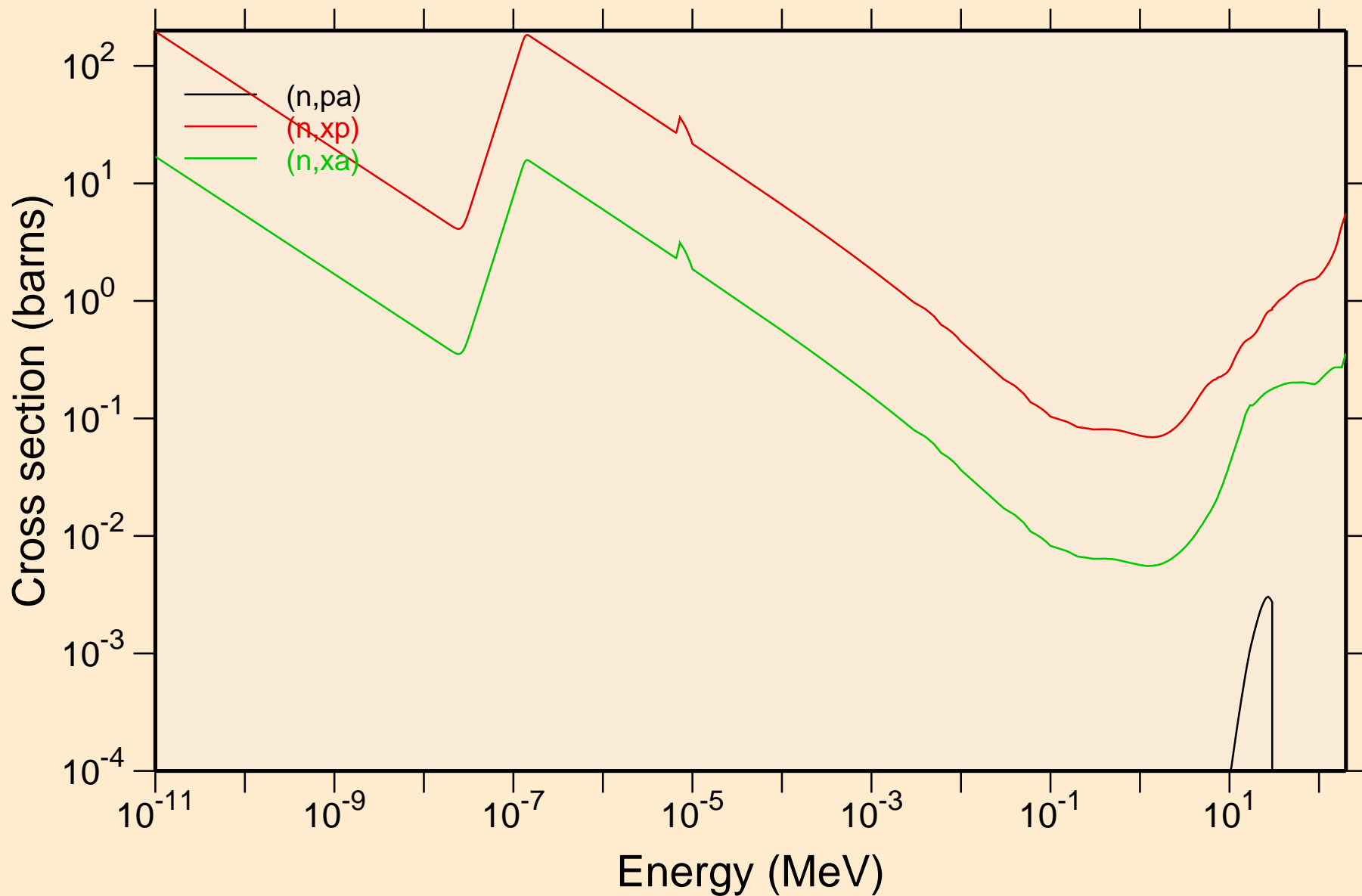


HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

Non-threshold reactions

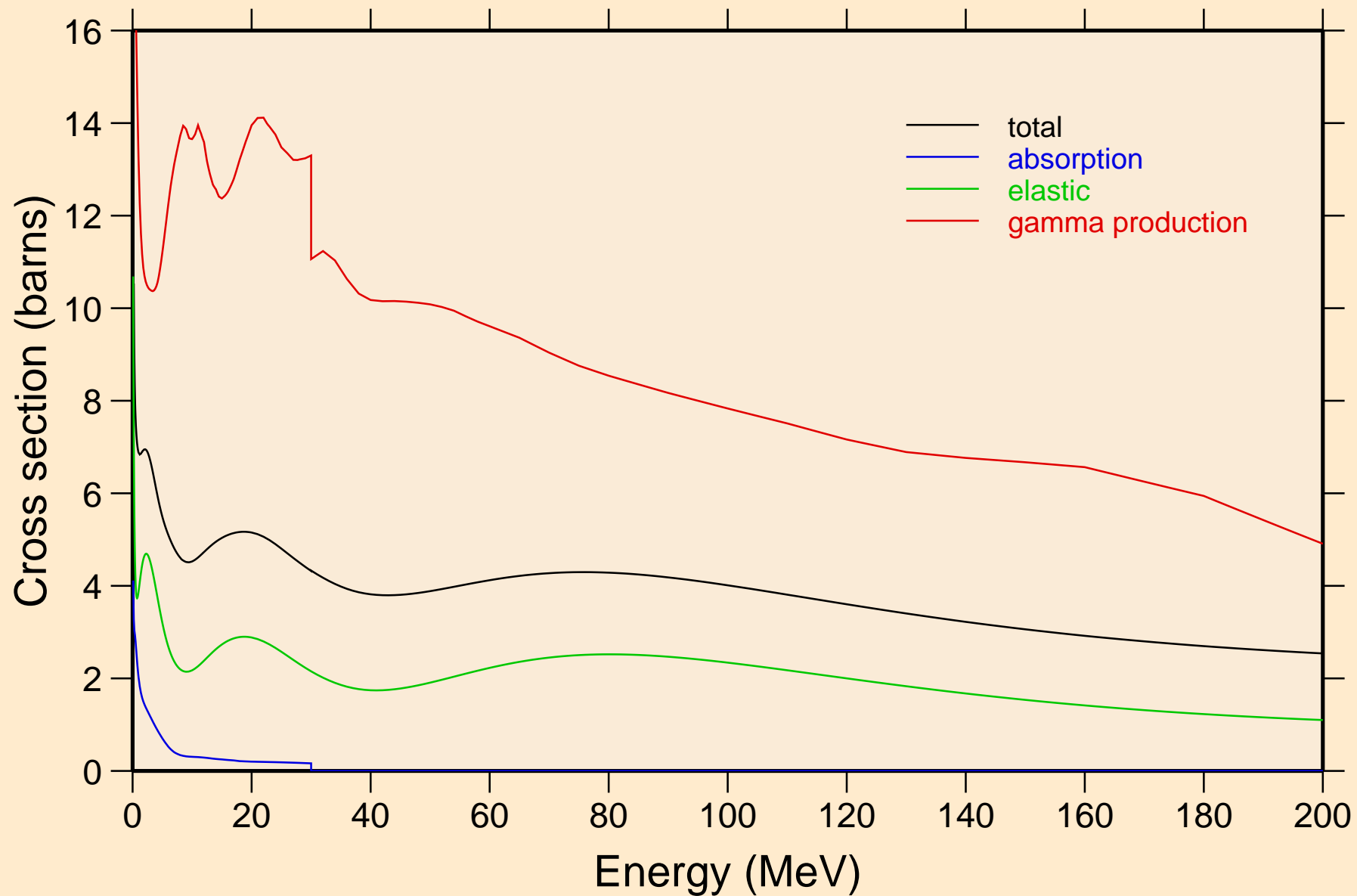


HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Non-threshold reactions

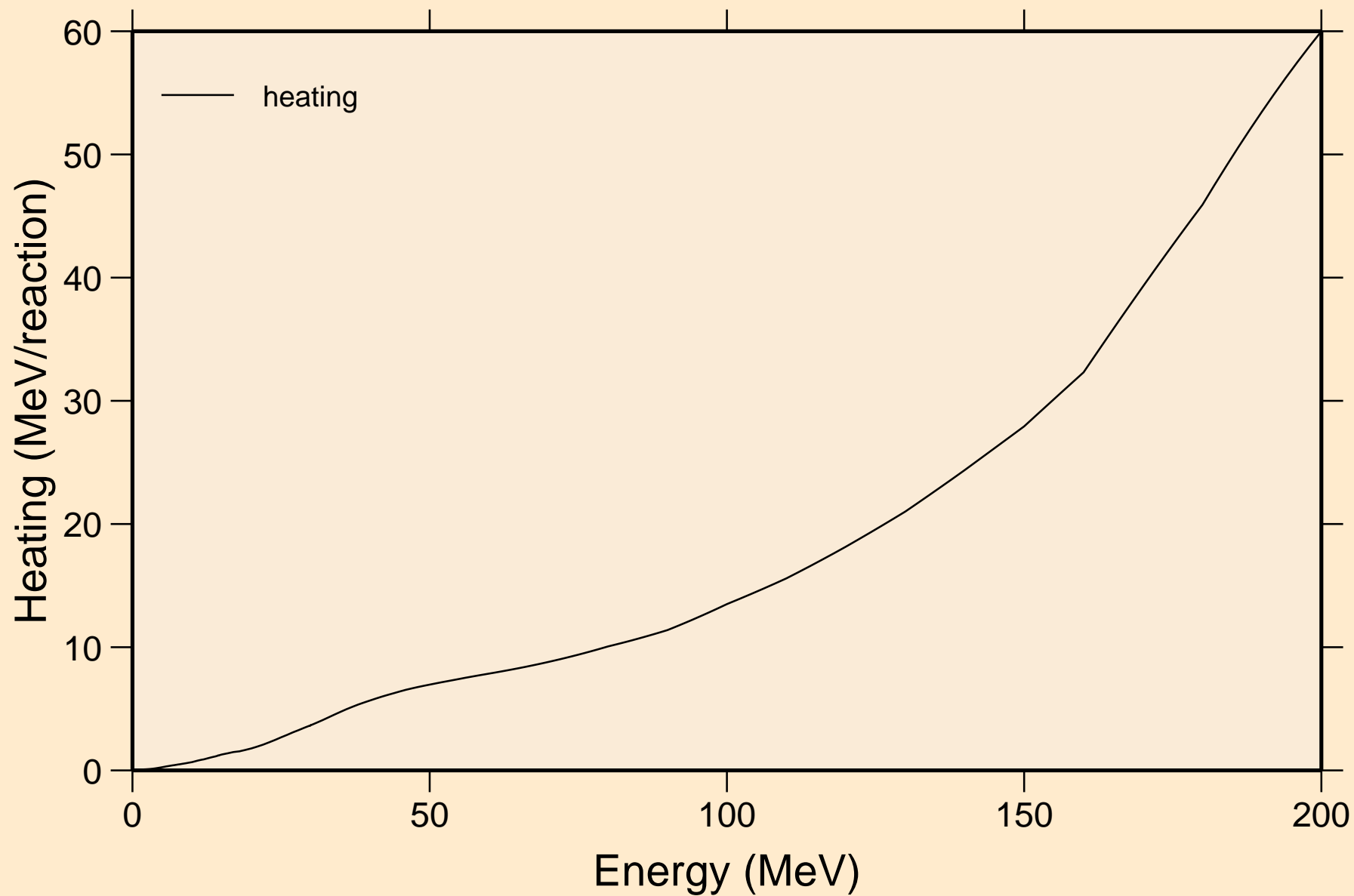


HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

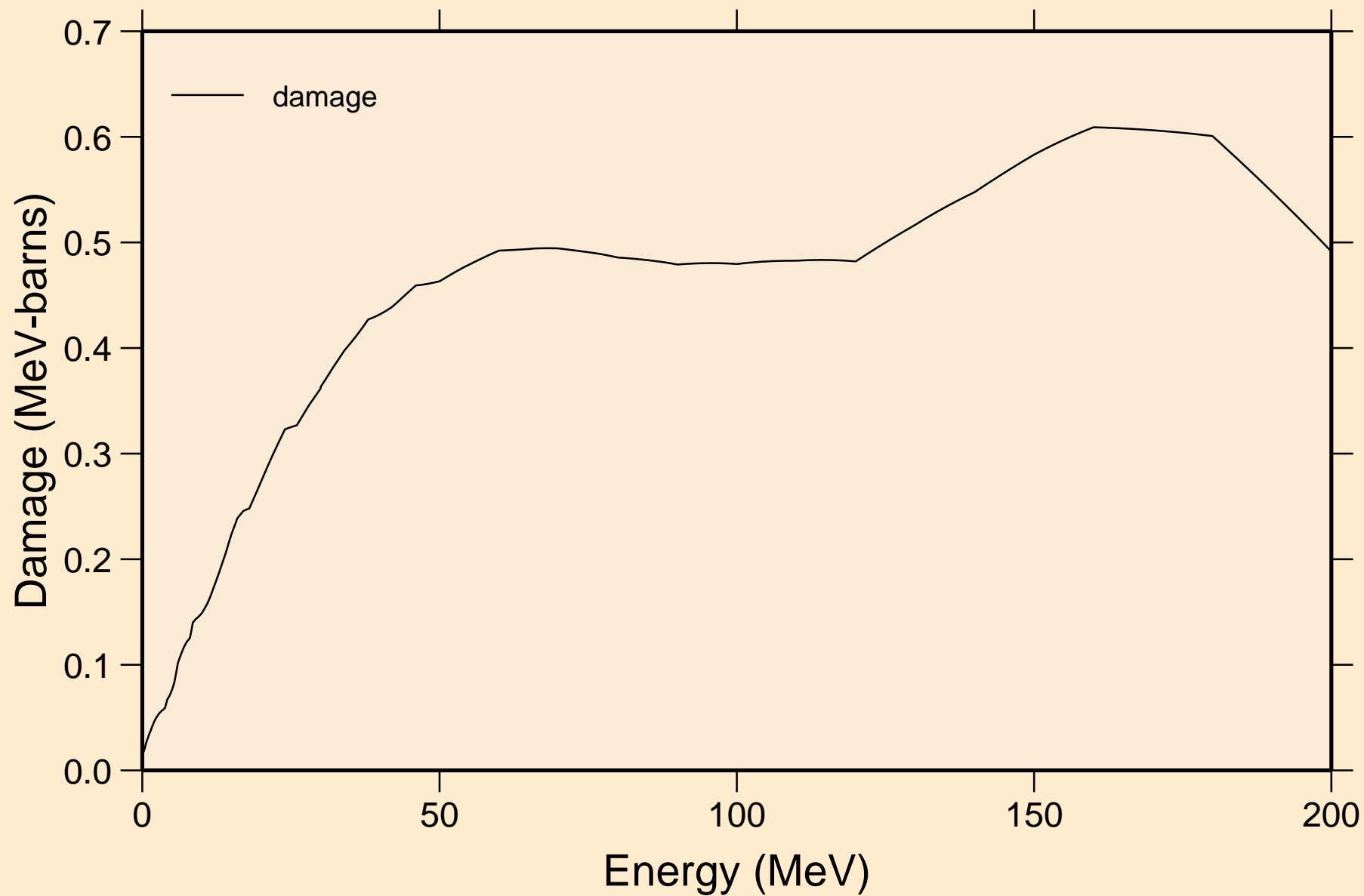
Principal cross sections



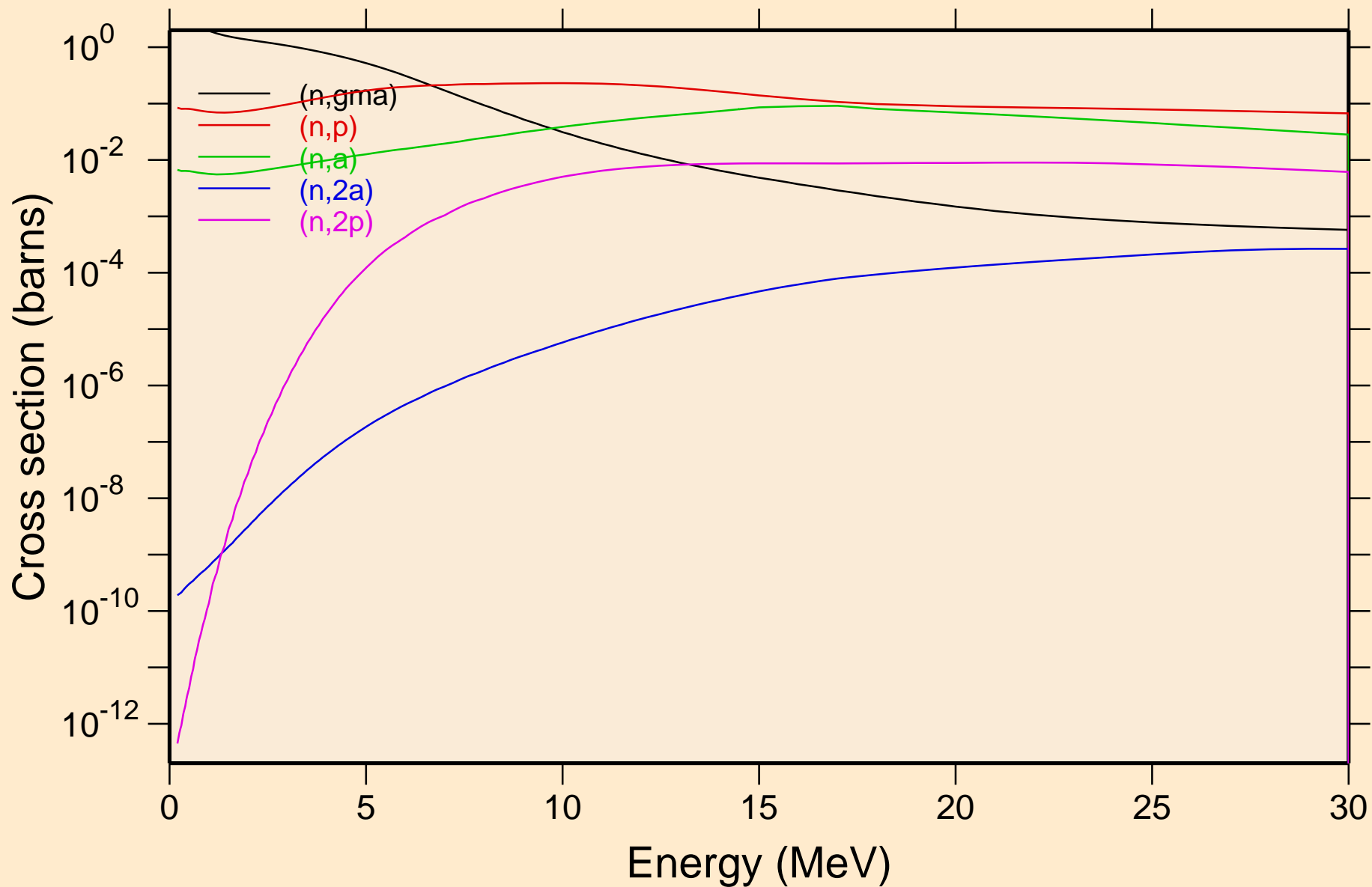
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Heating



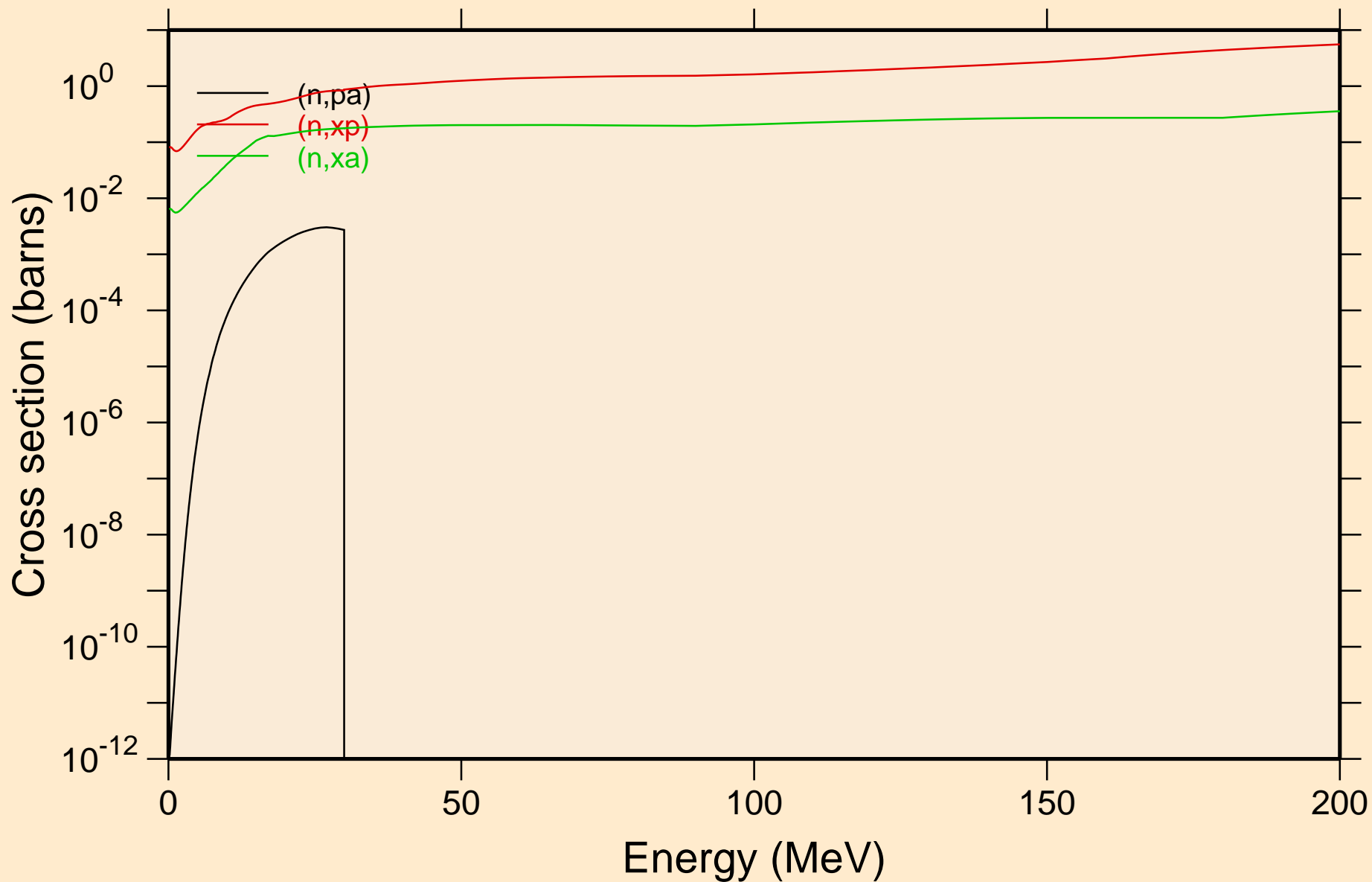
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Damage



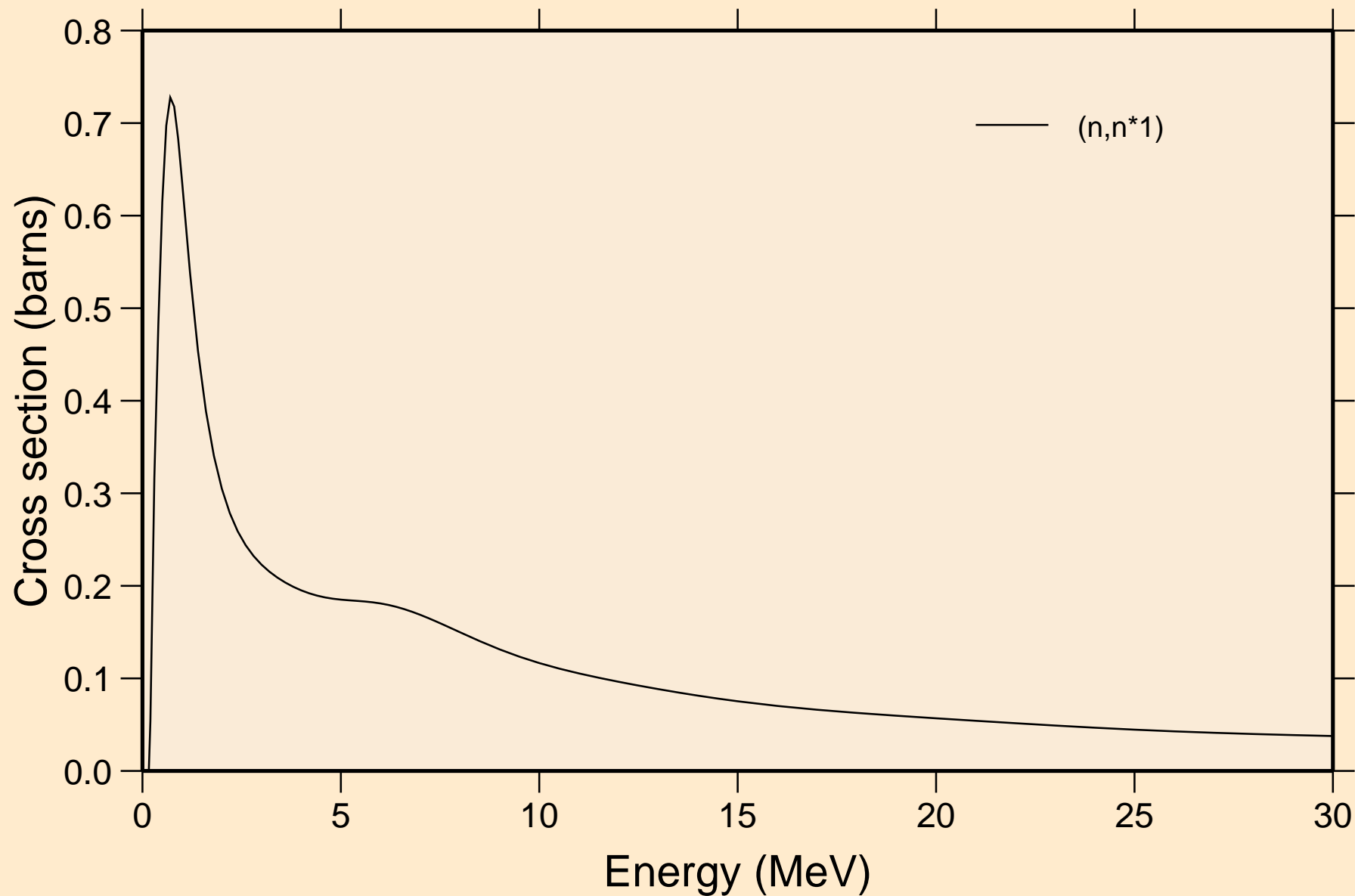
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Non-threshold reactions



HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Non-threshold reactions

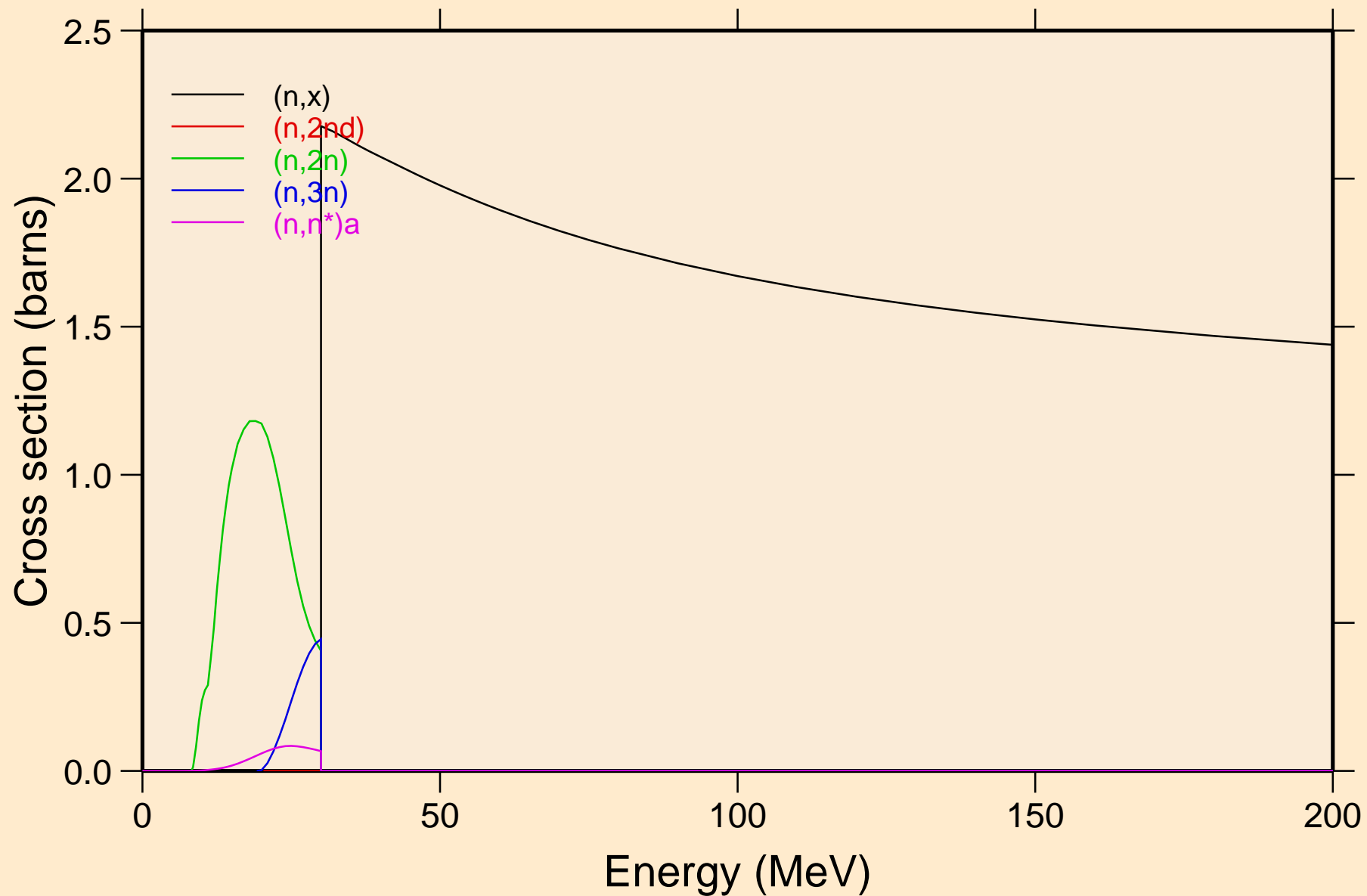


HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Inelastic levels

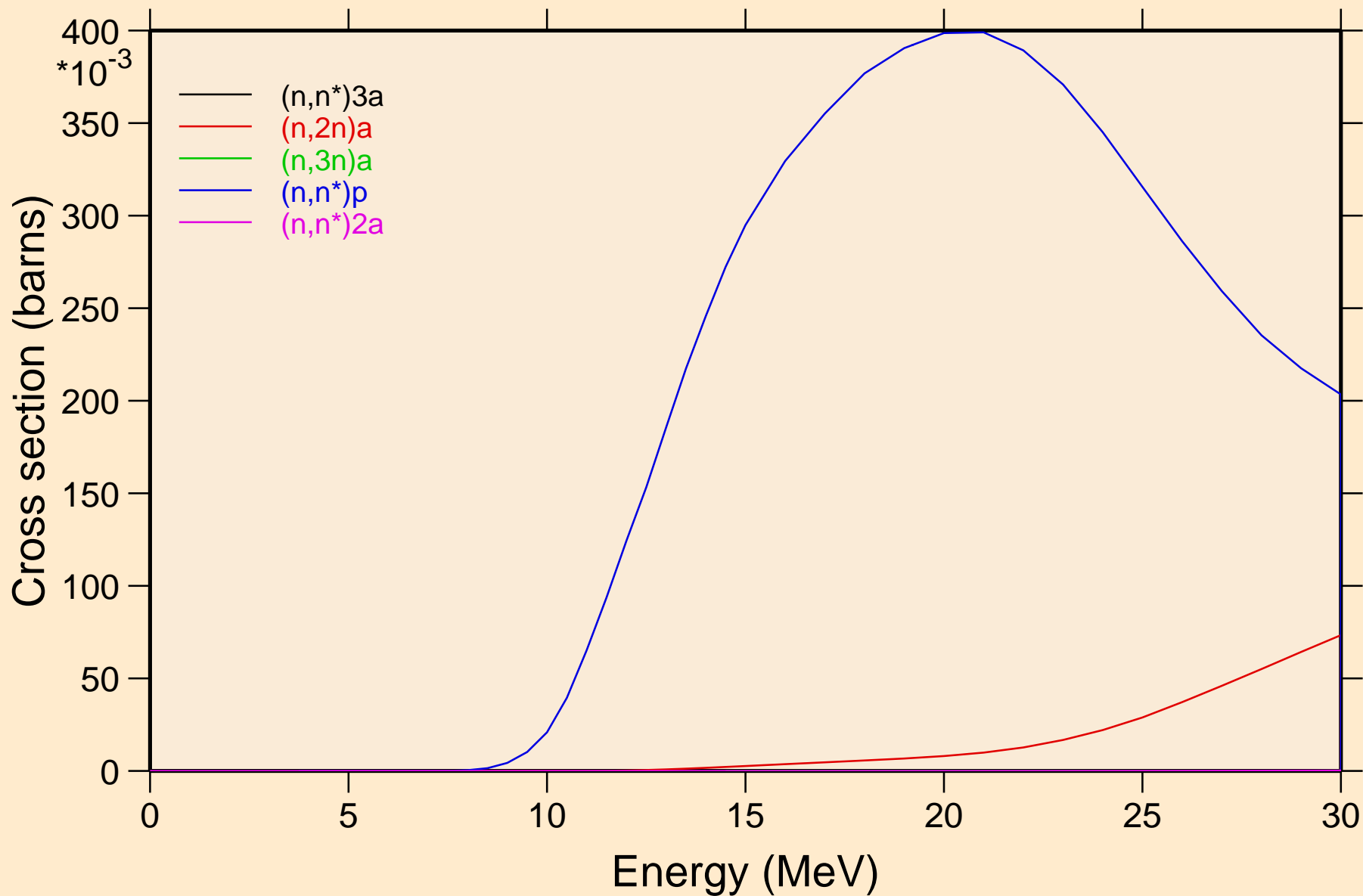


HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

Threshold reactions

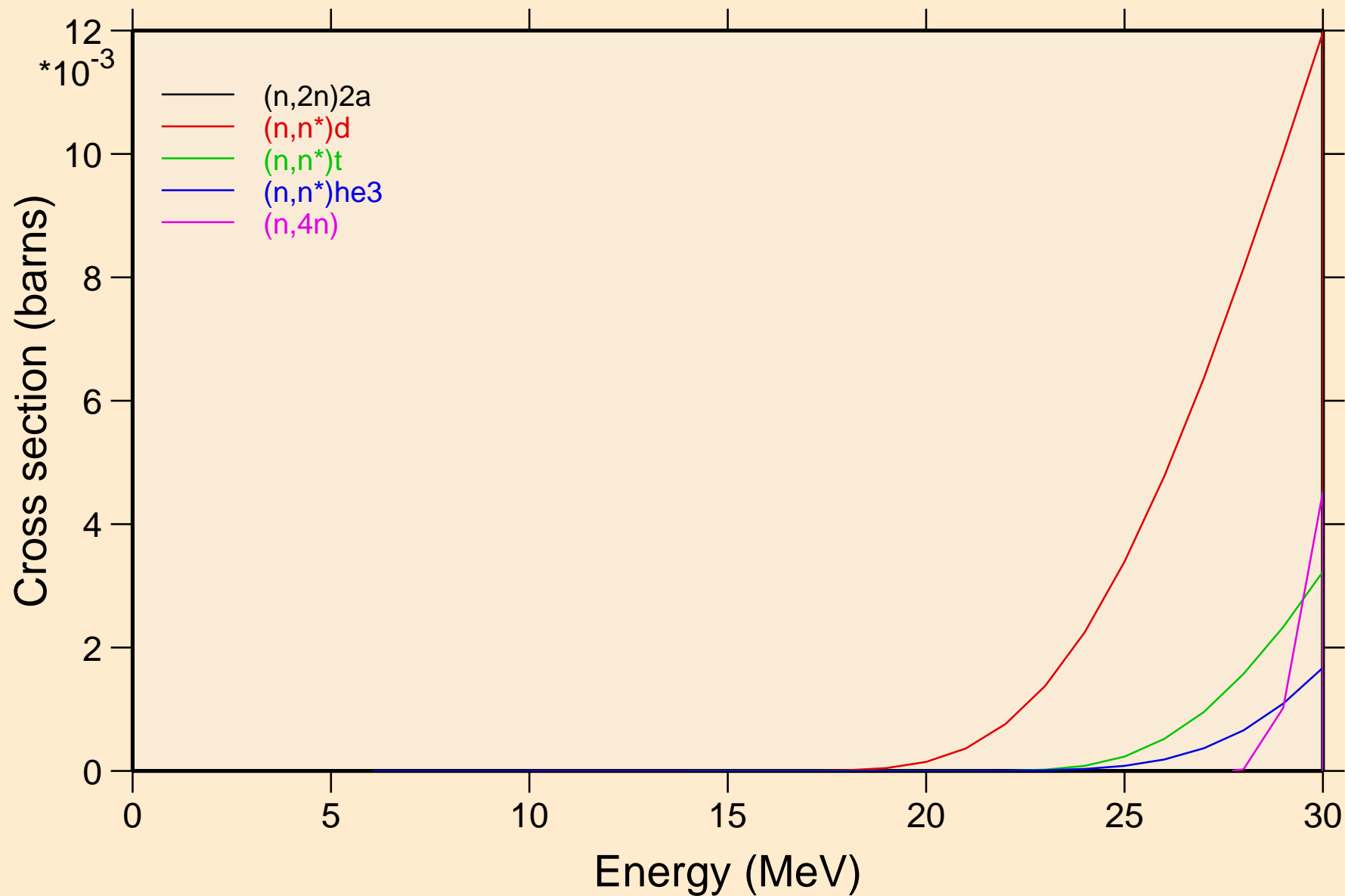


HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Threshold reactions

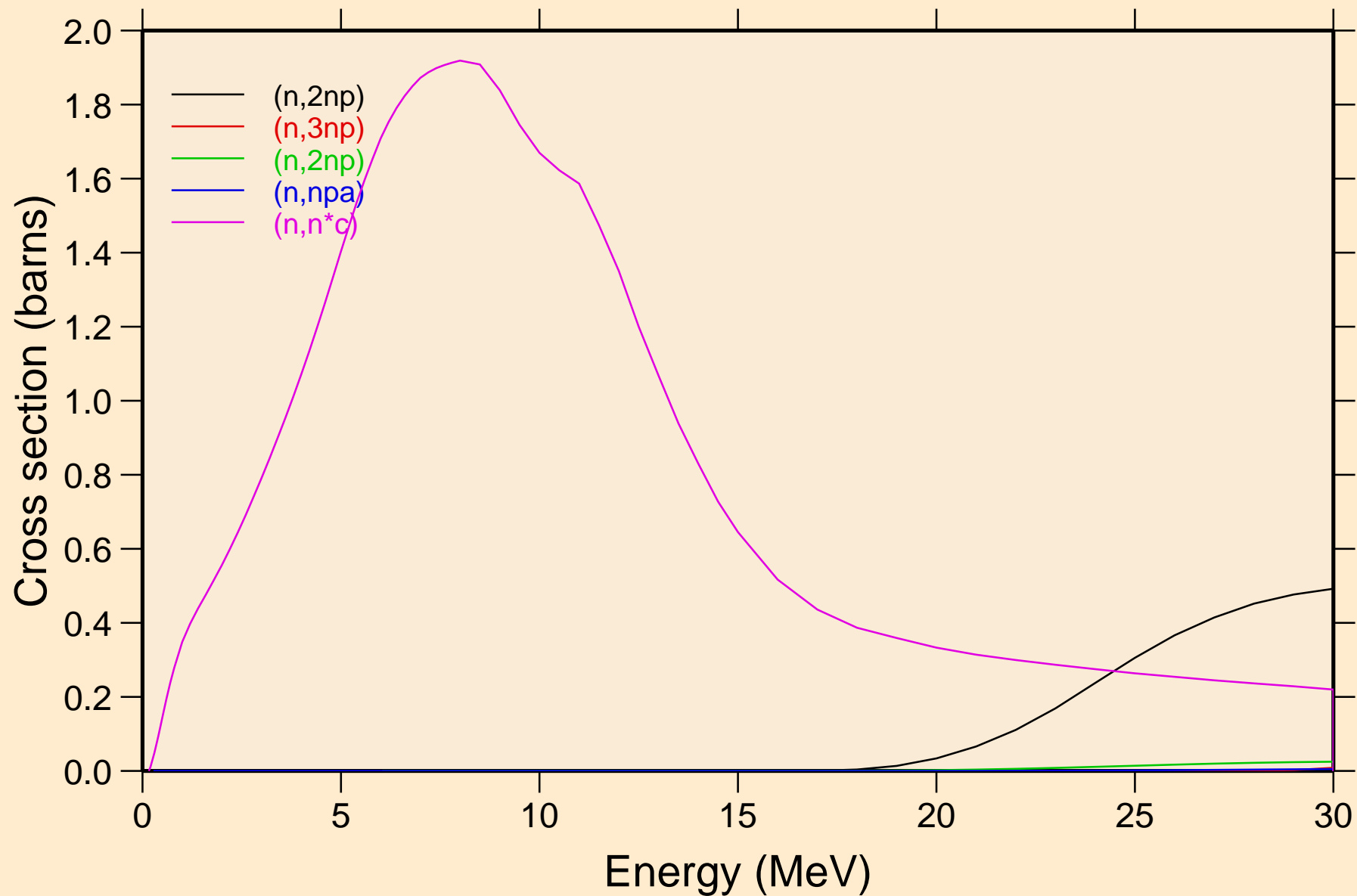


HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

Threshold reactions

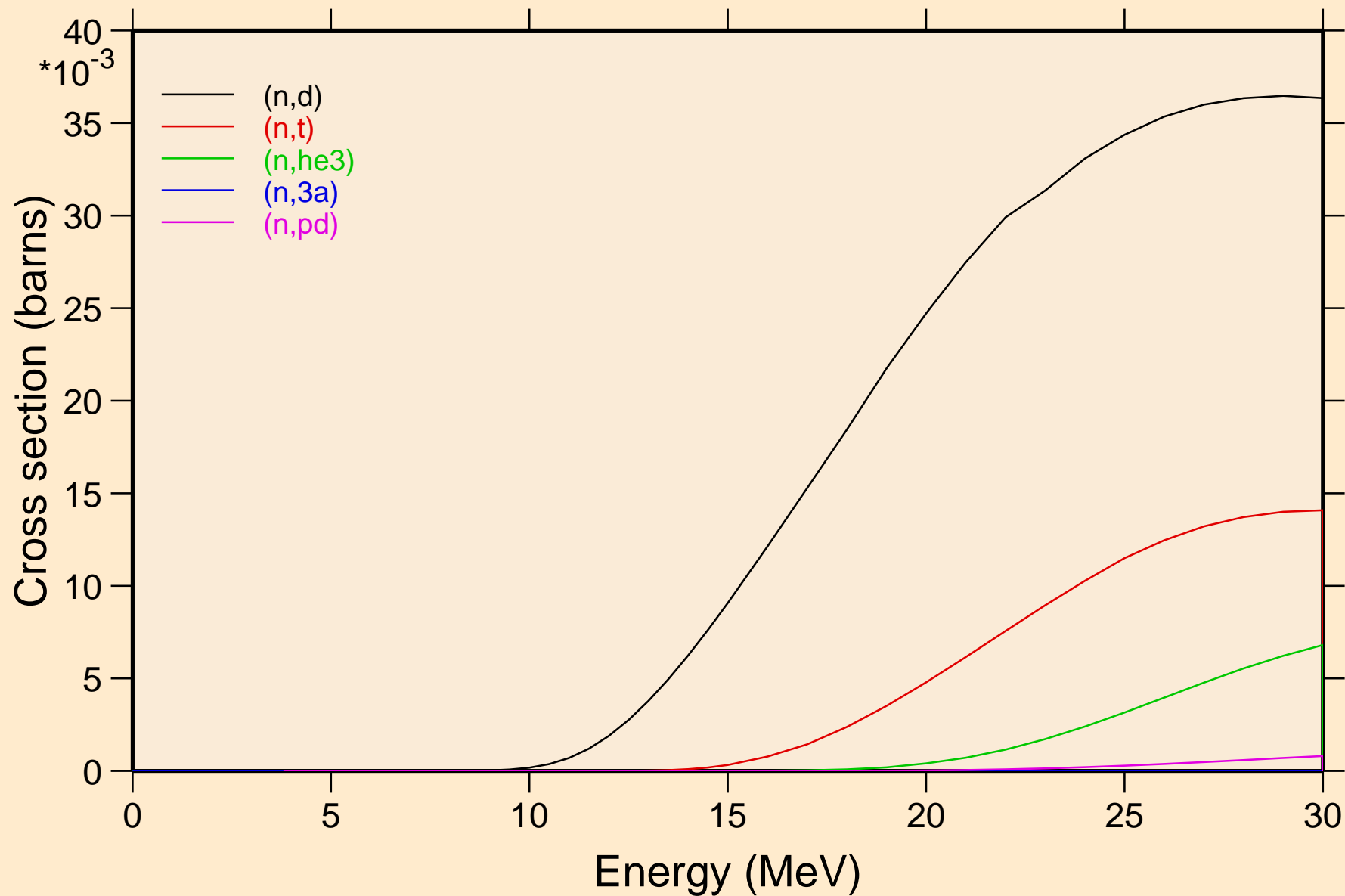


HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Threshold reactions

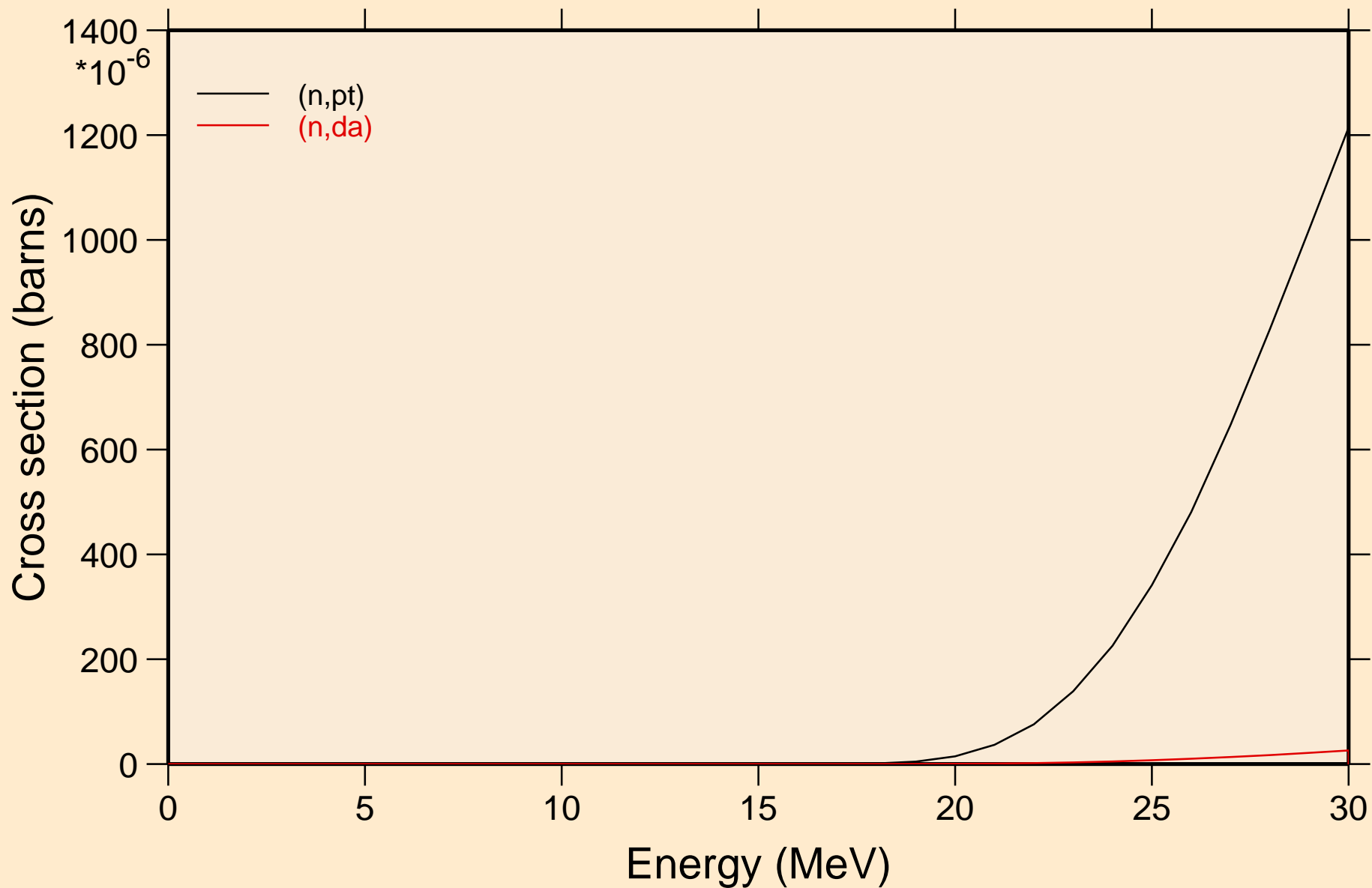


HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

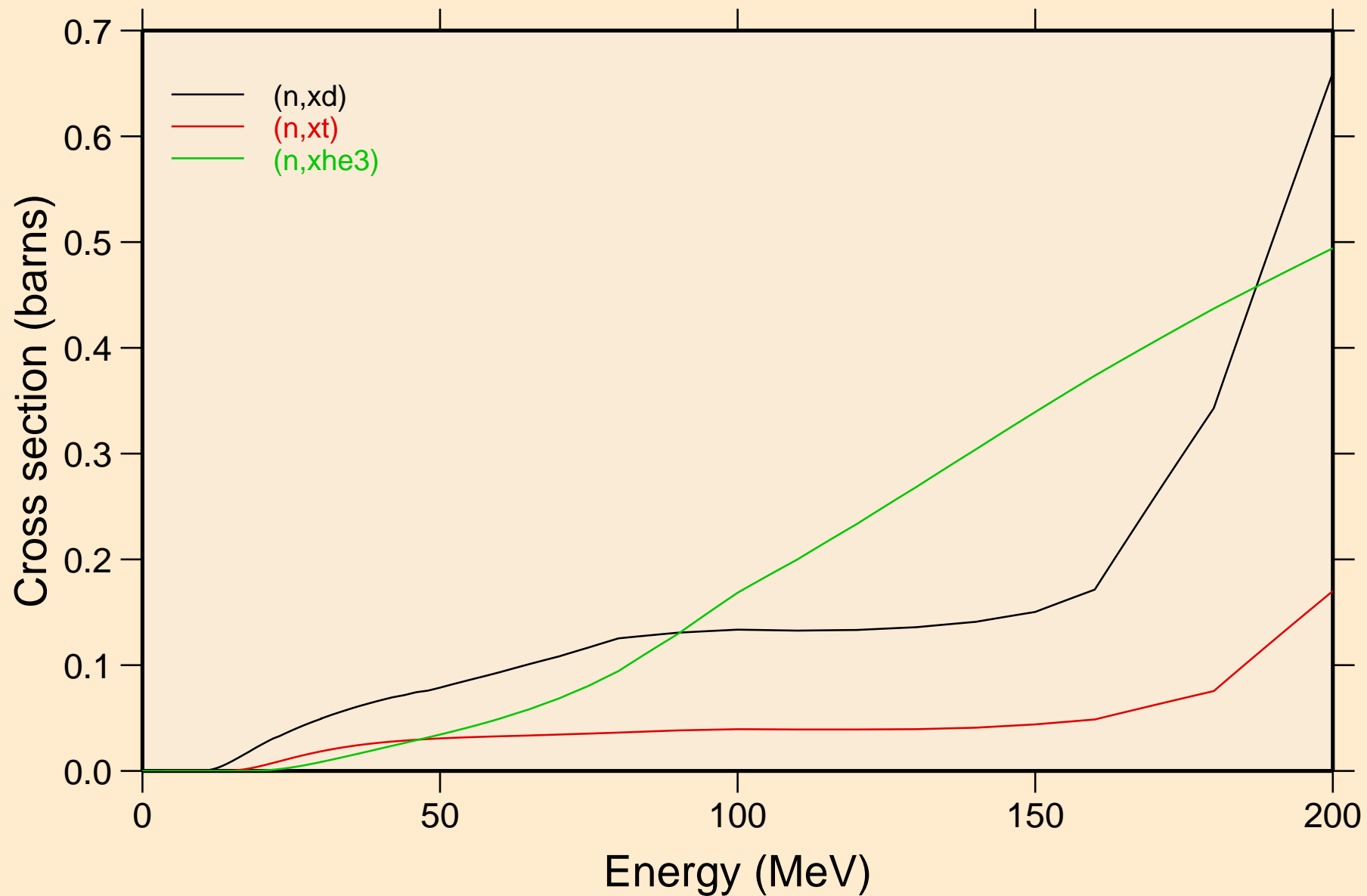
Threshold reactions



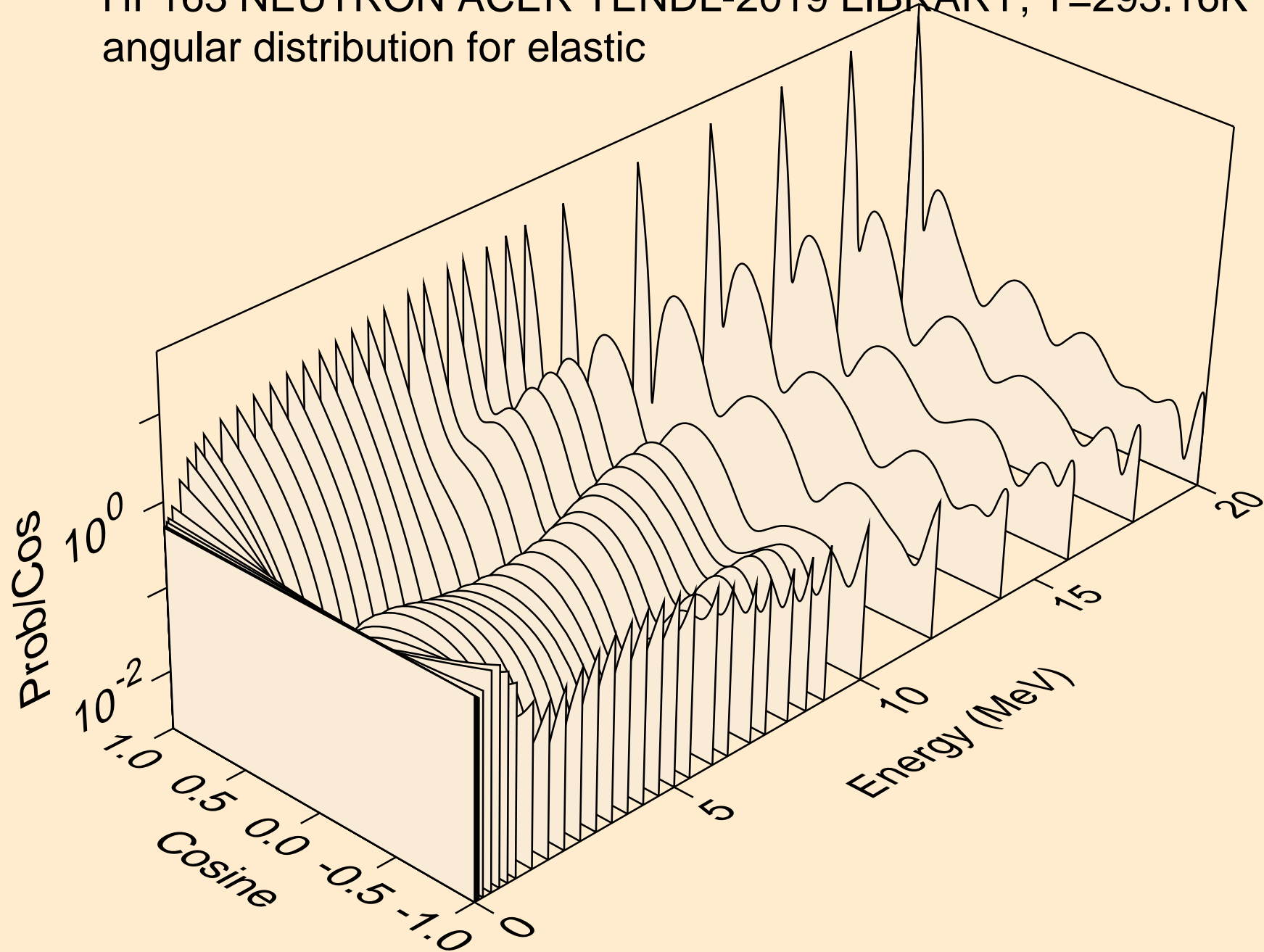
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Threshold reactions



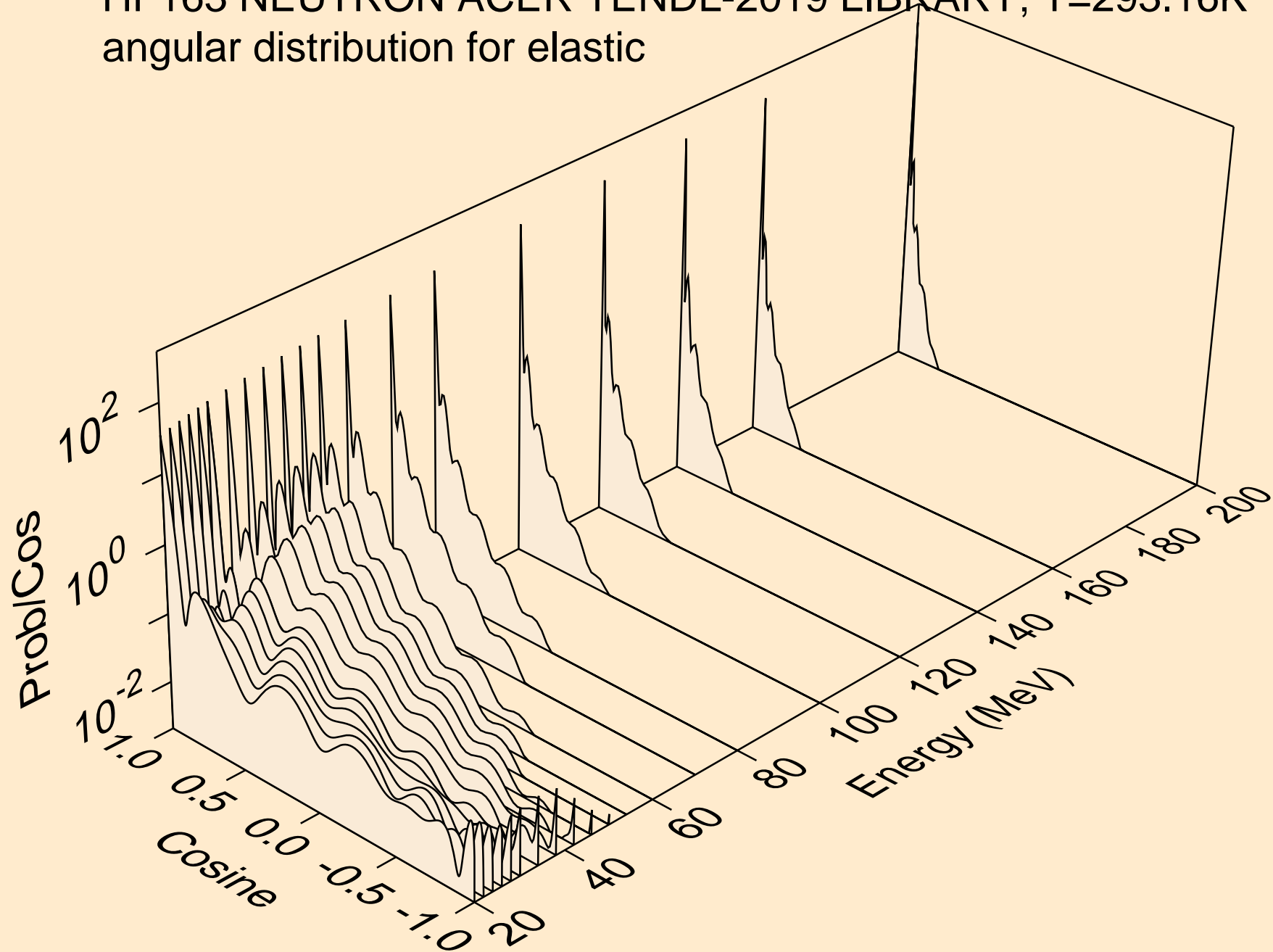
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Threshold reactions



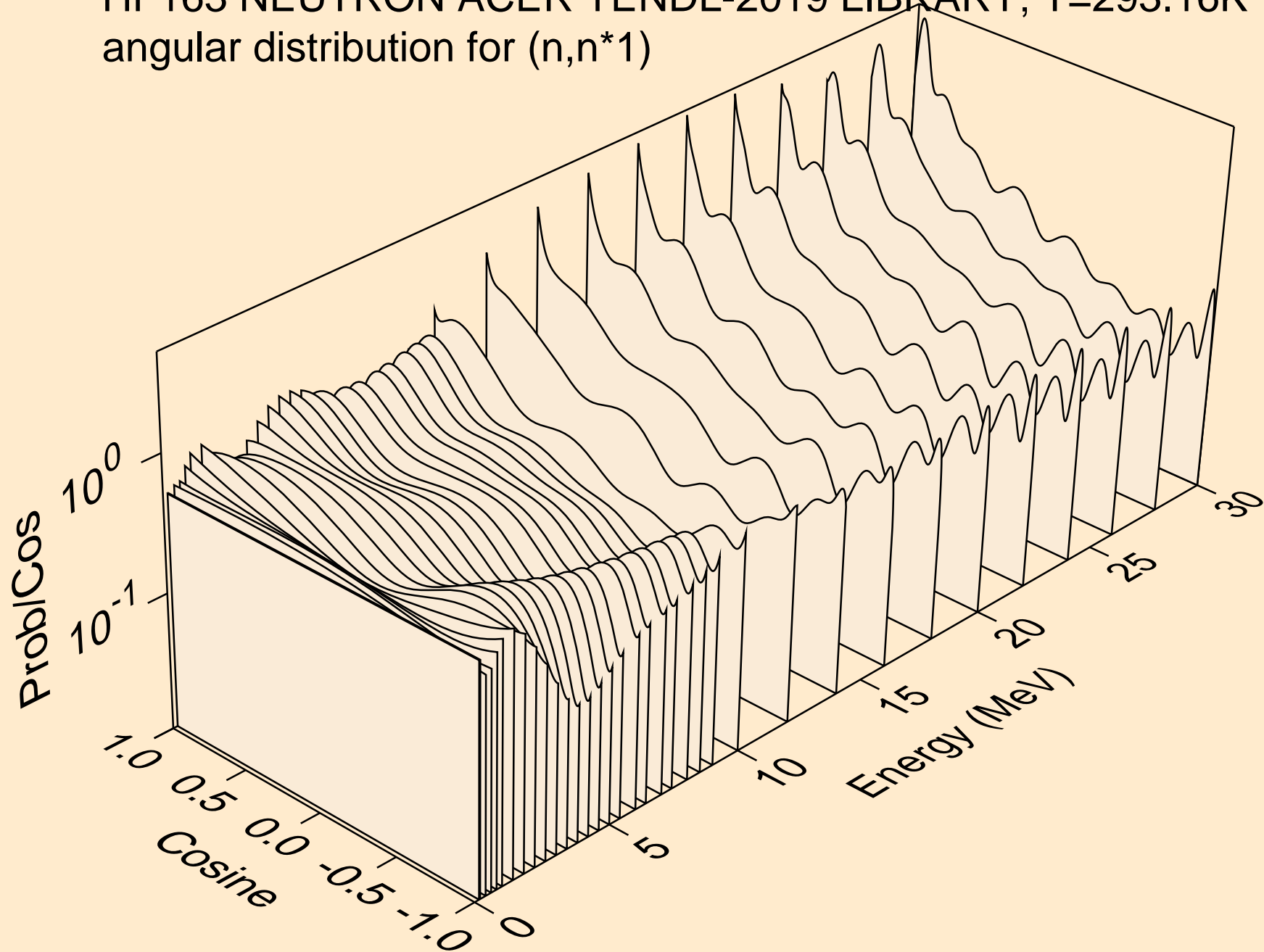
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for elastic



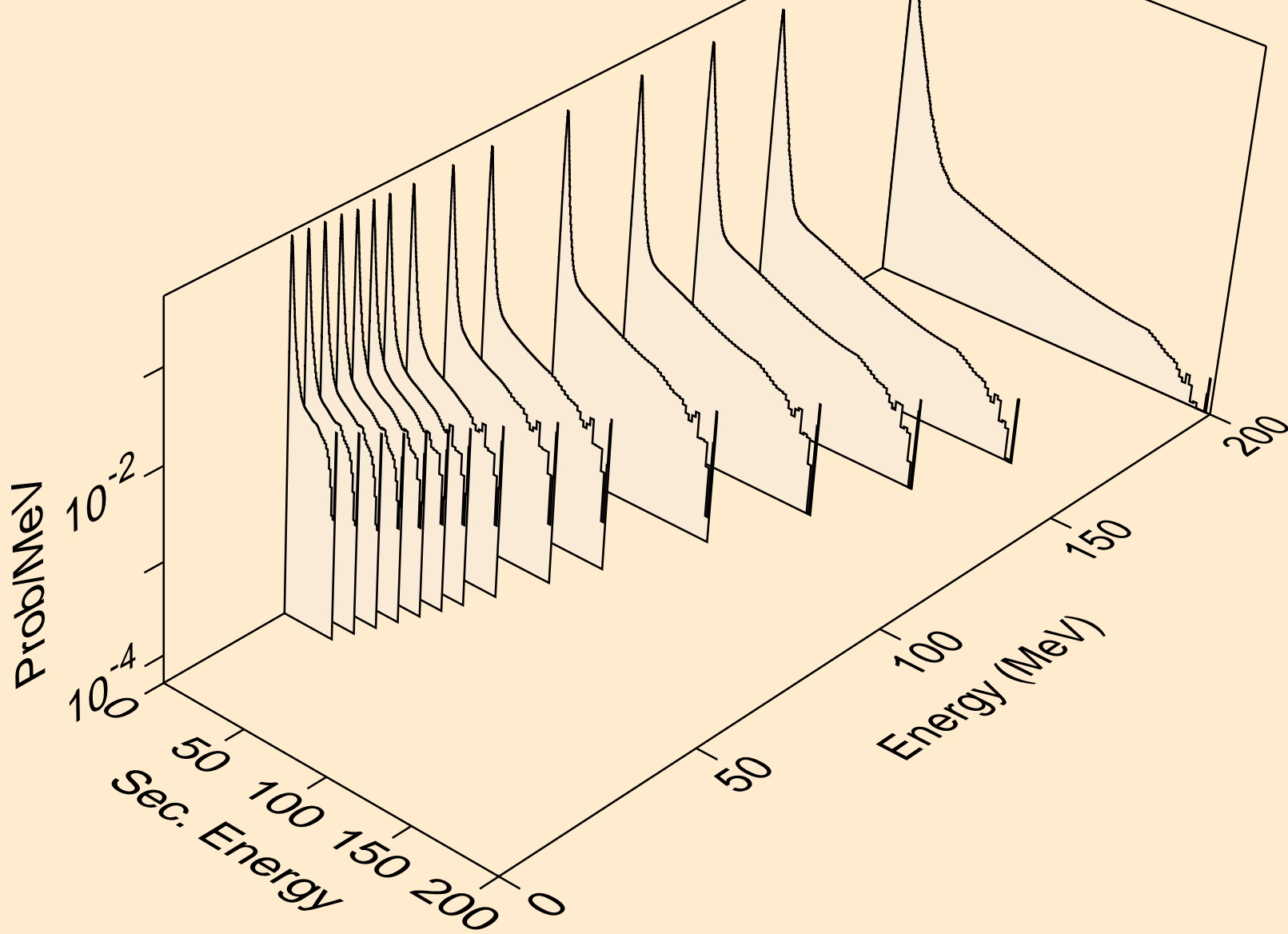
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for elastic



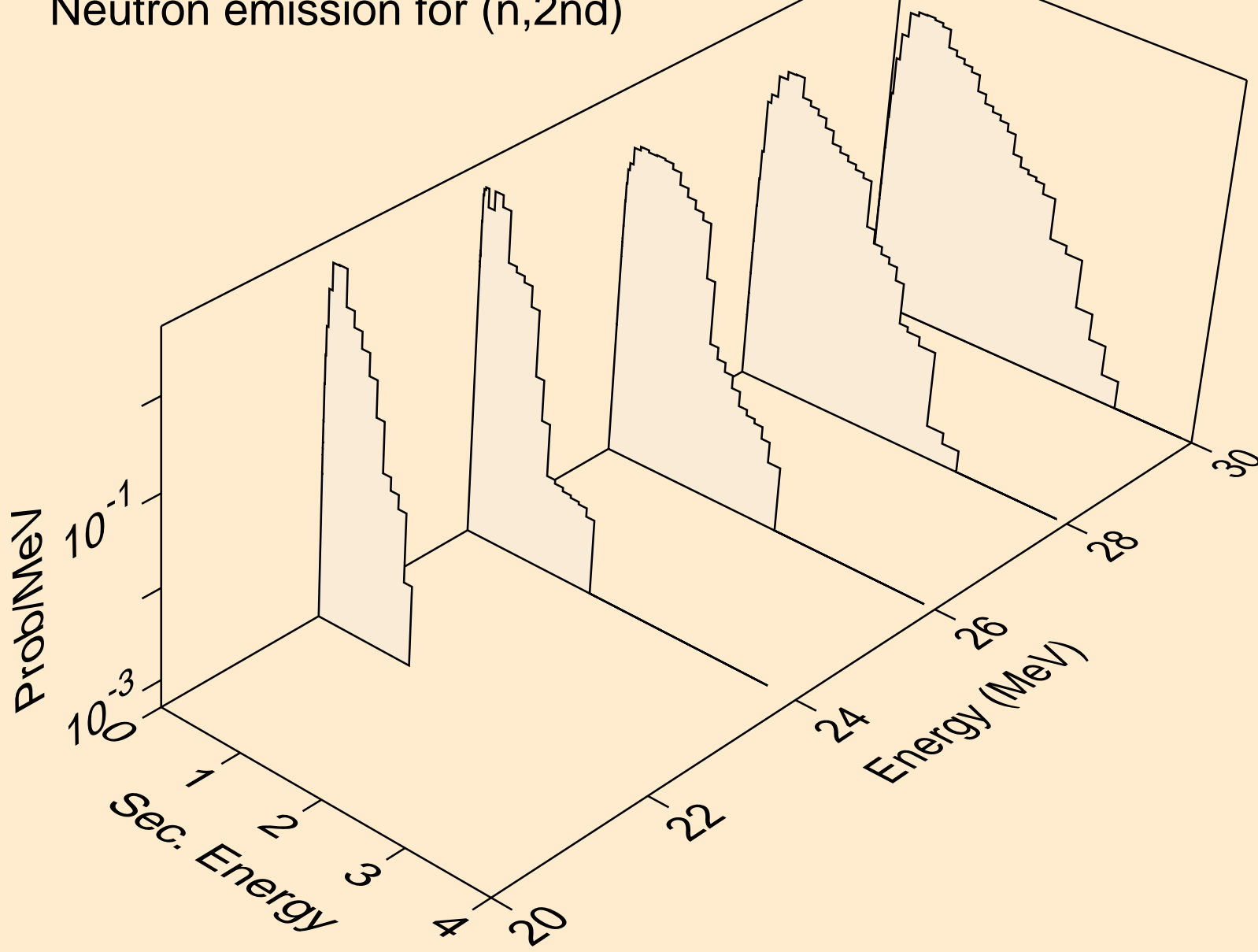
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
angular distribution for (n,n*1)



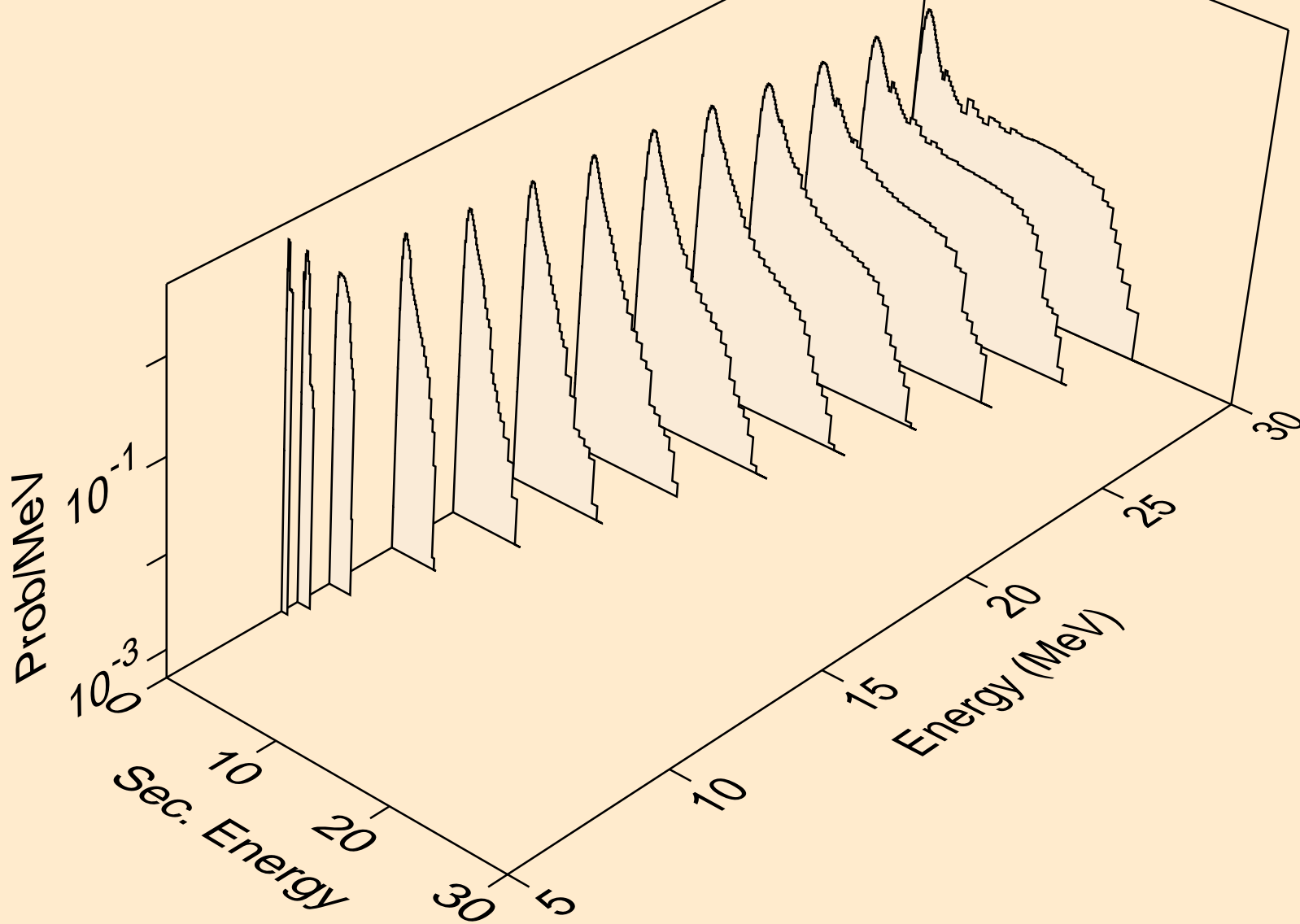
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,x)



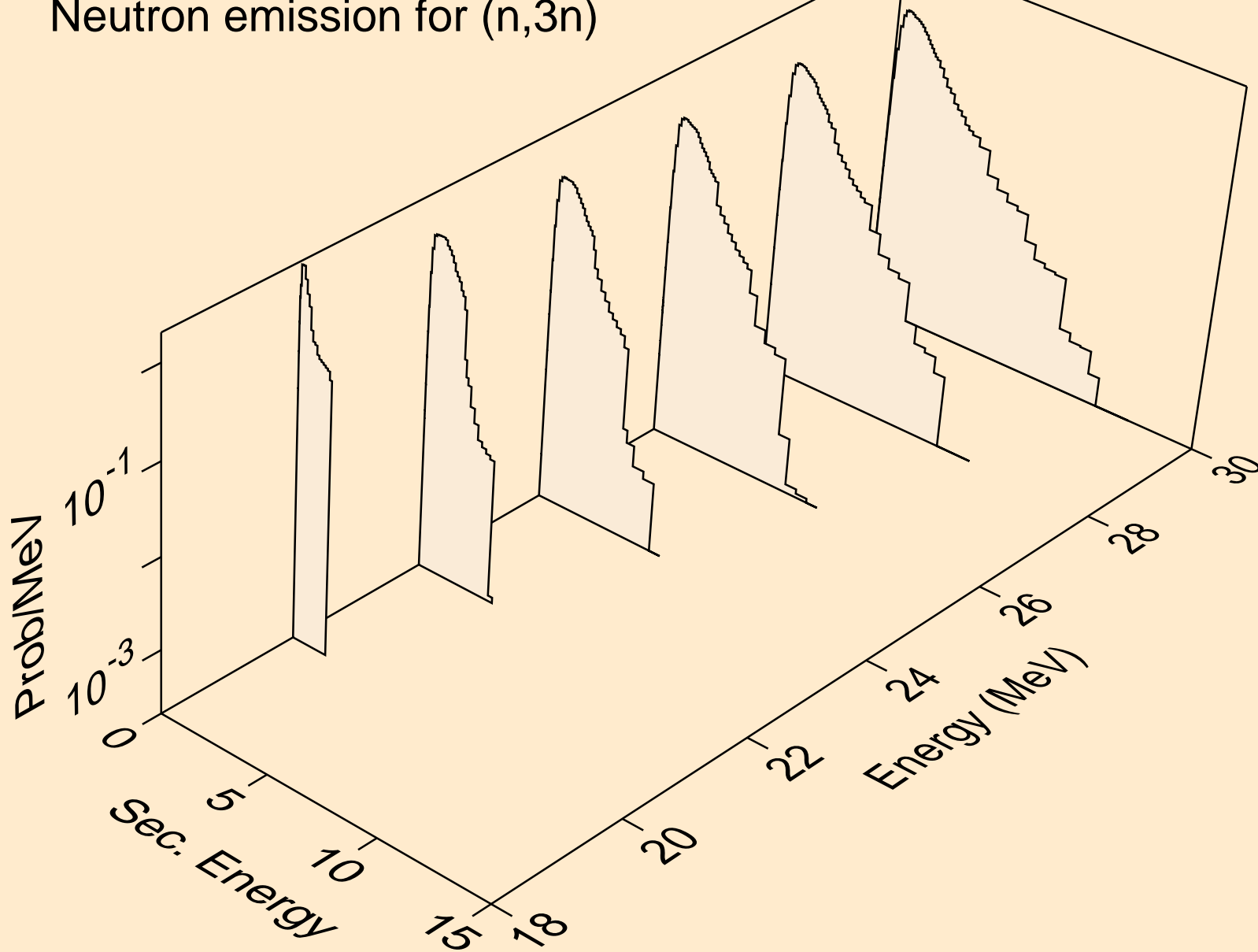
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,2nd)



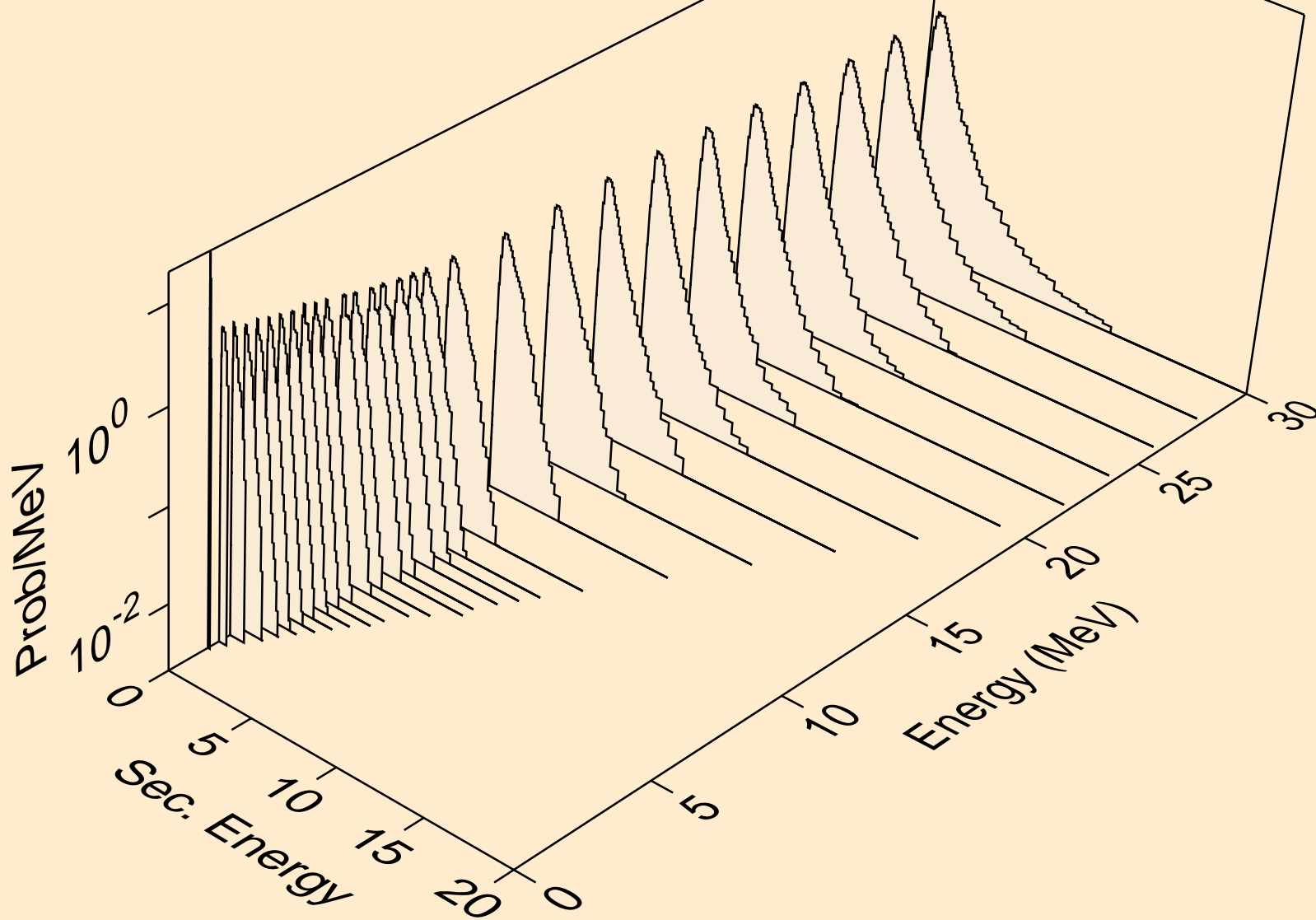
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,2n)



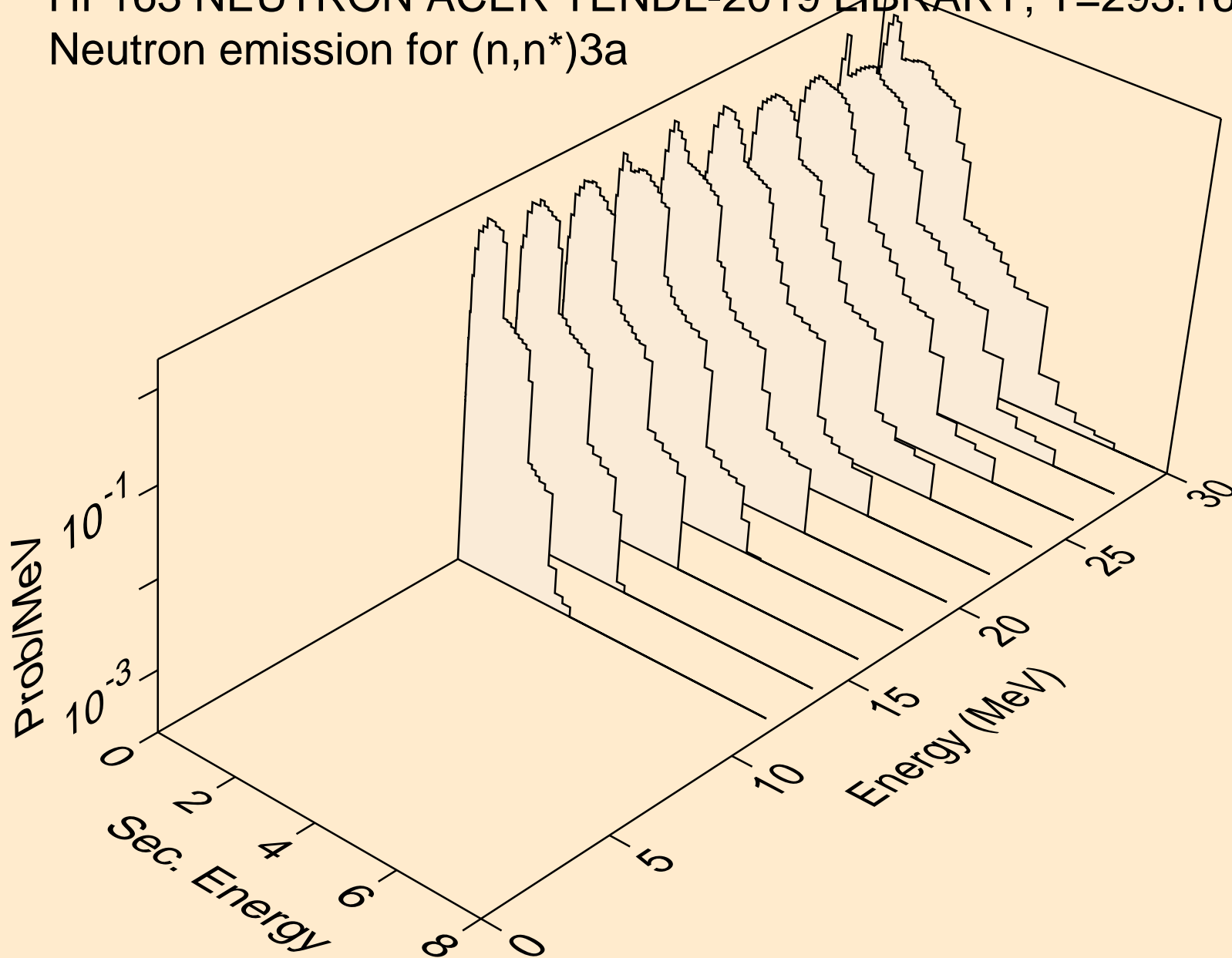
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,3n)



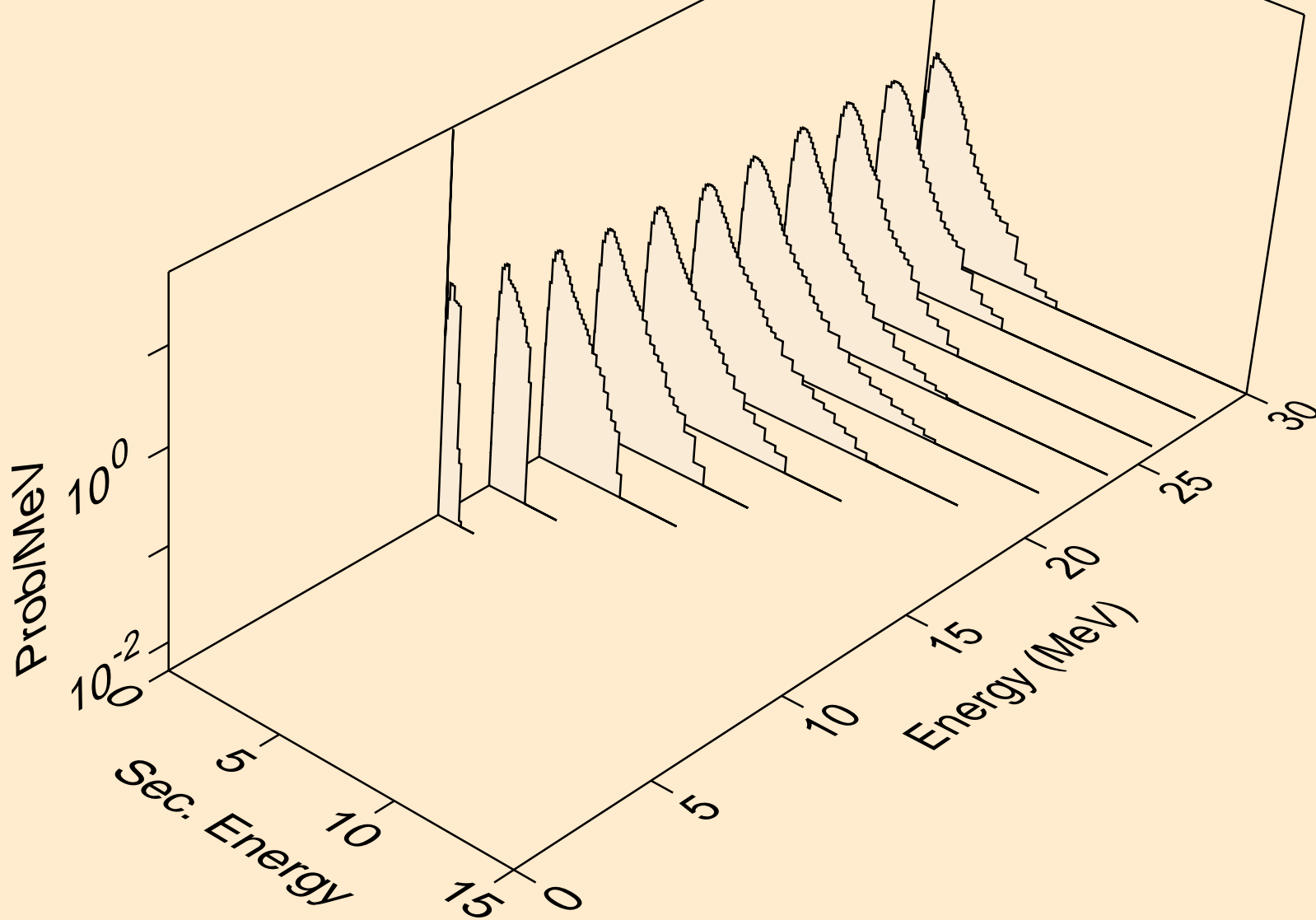
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,n*)a



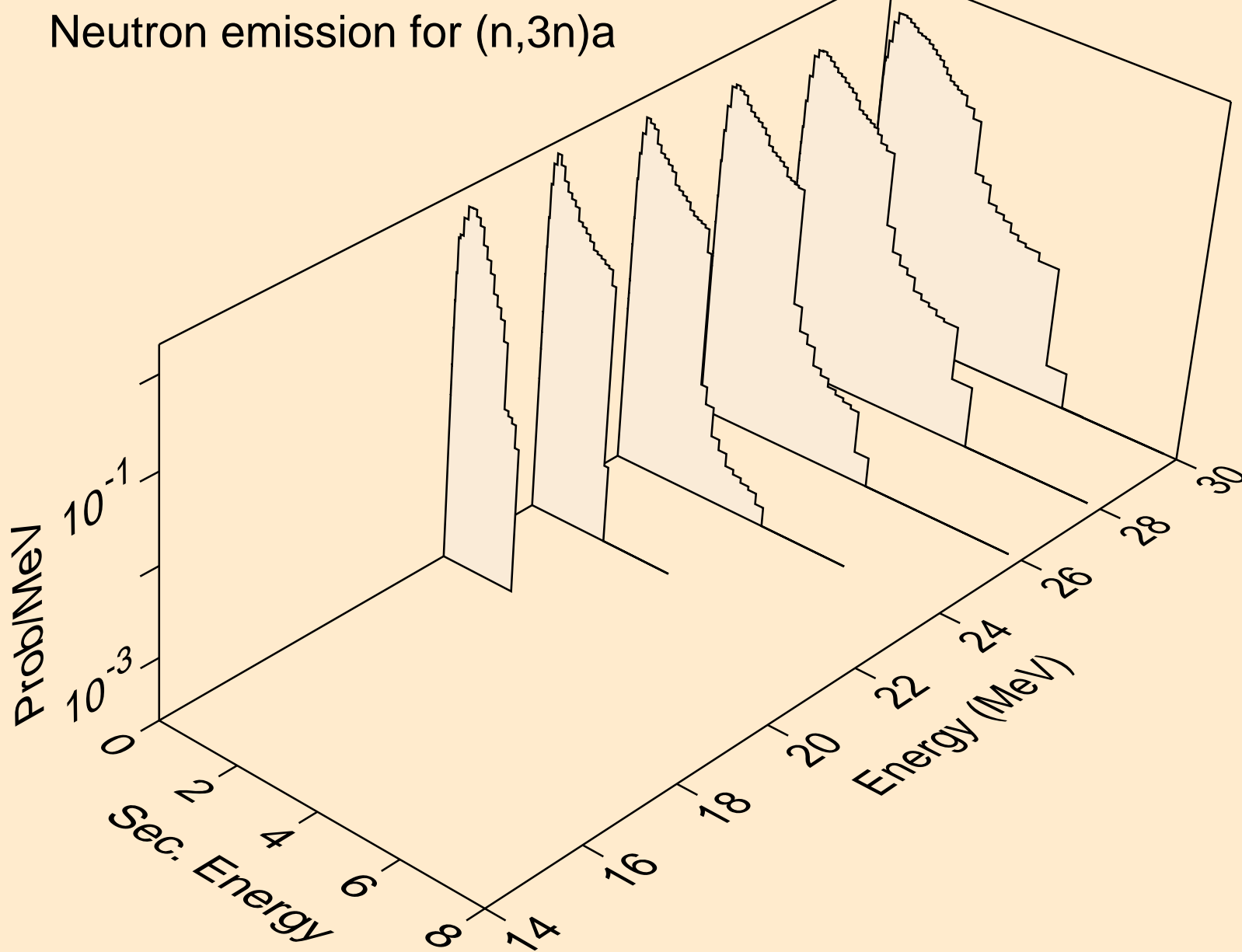
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,n*)3a



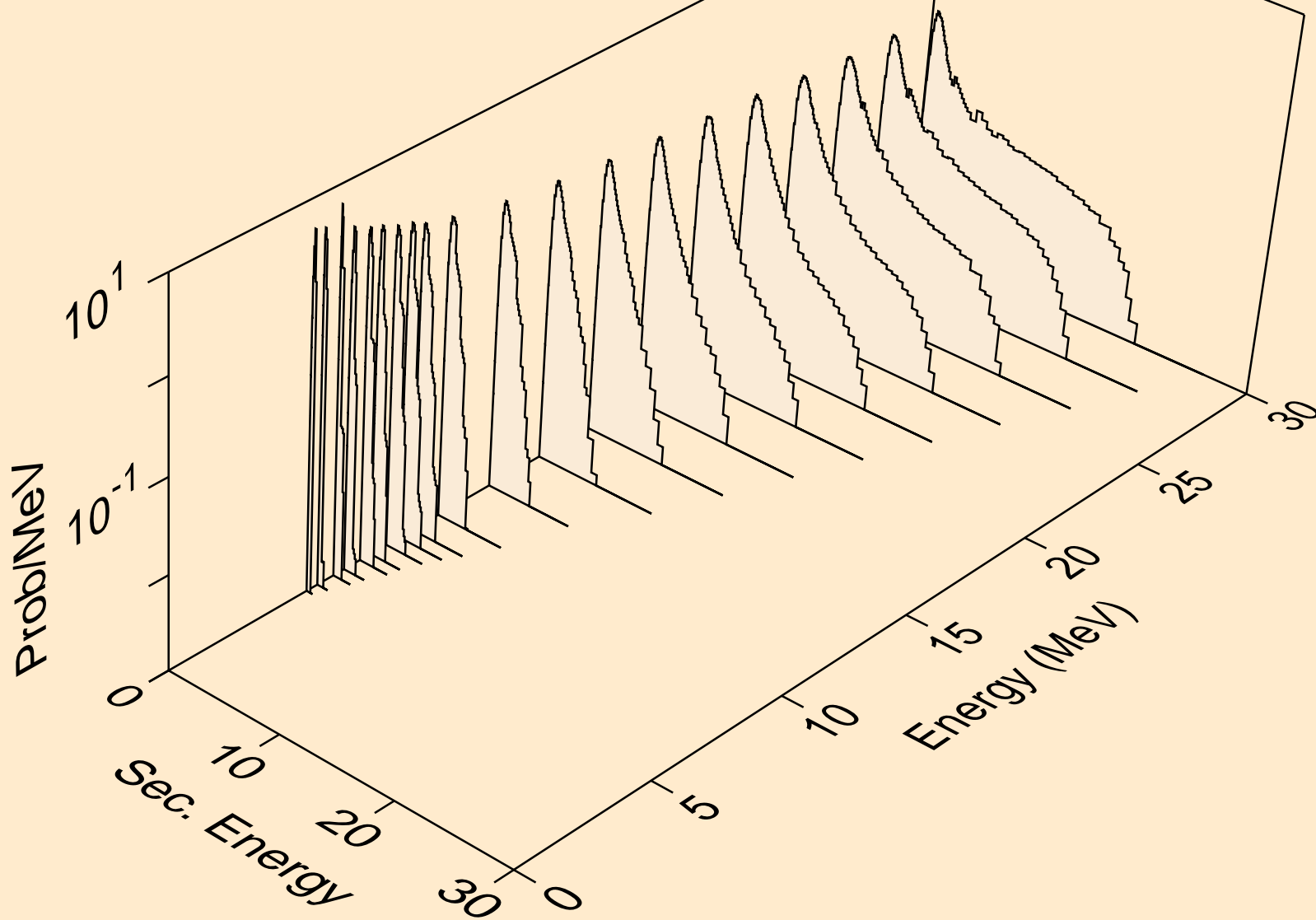
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,2n)a



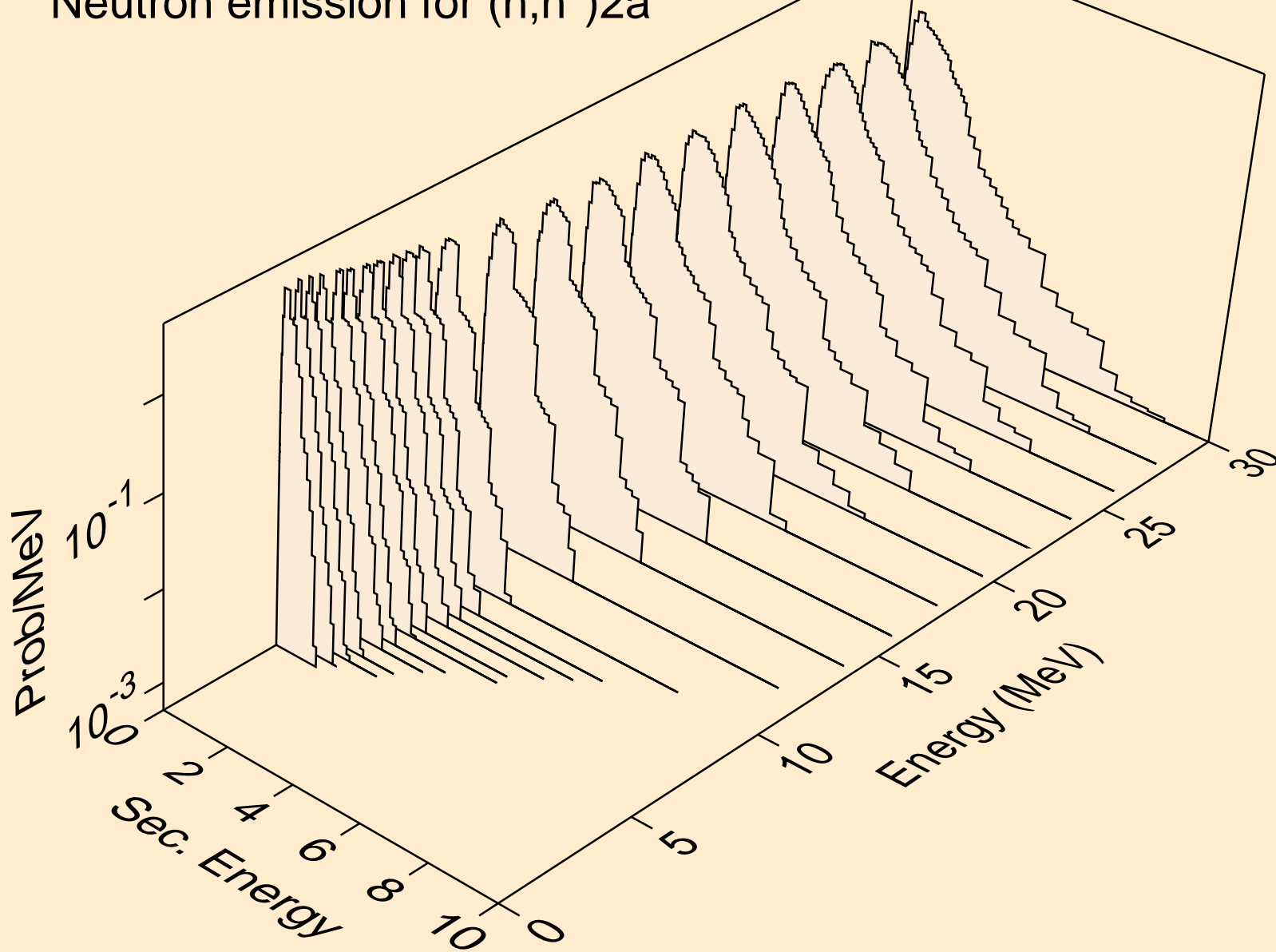
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,3n)a



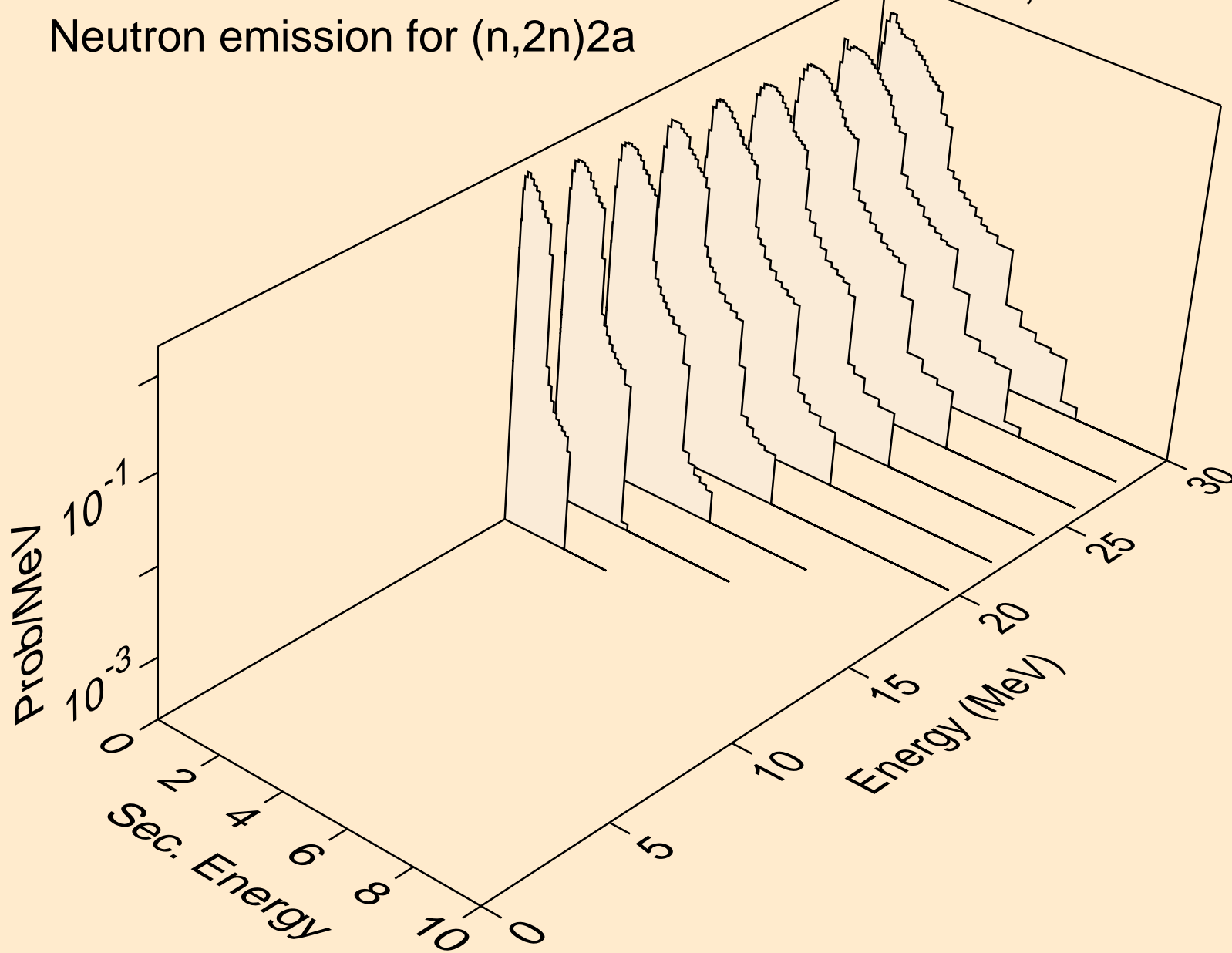
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,n*)p



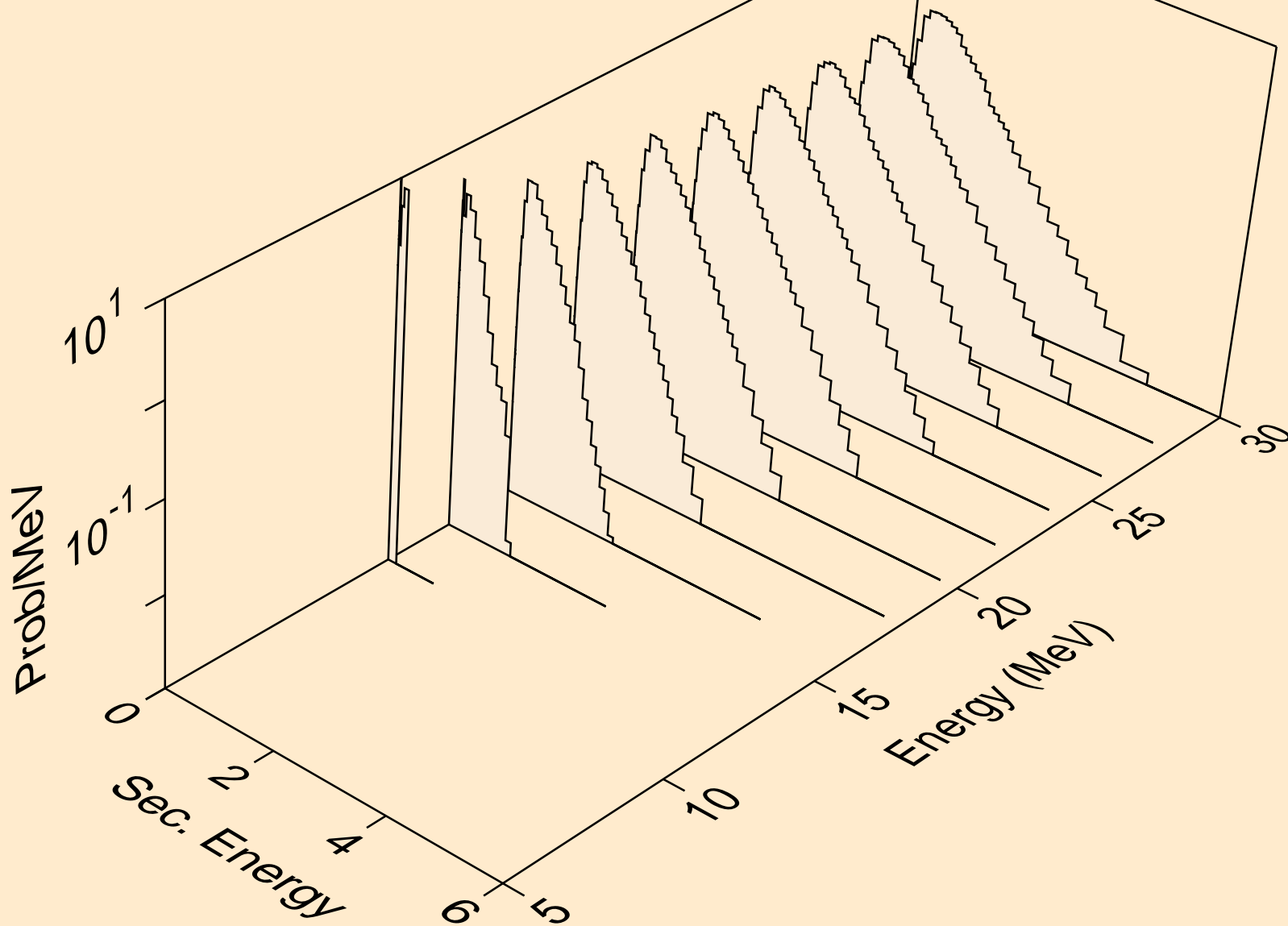
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,n*)2a



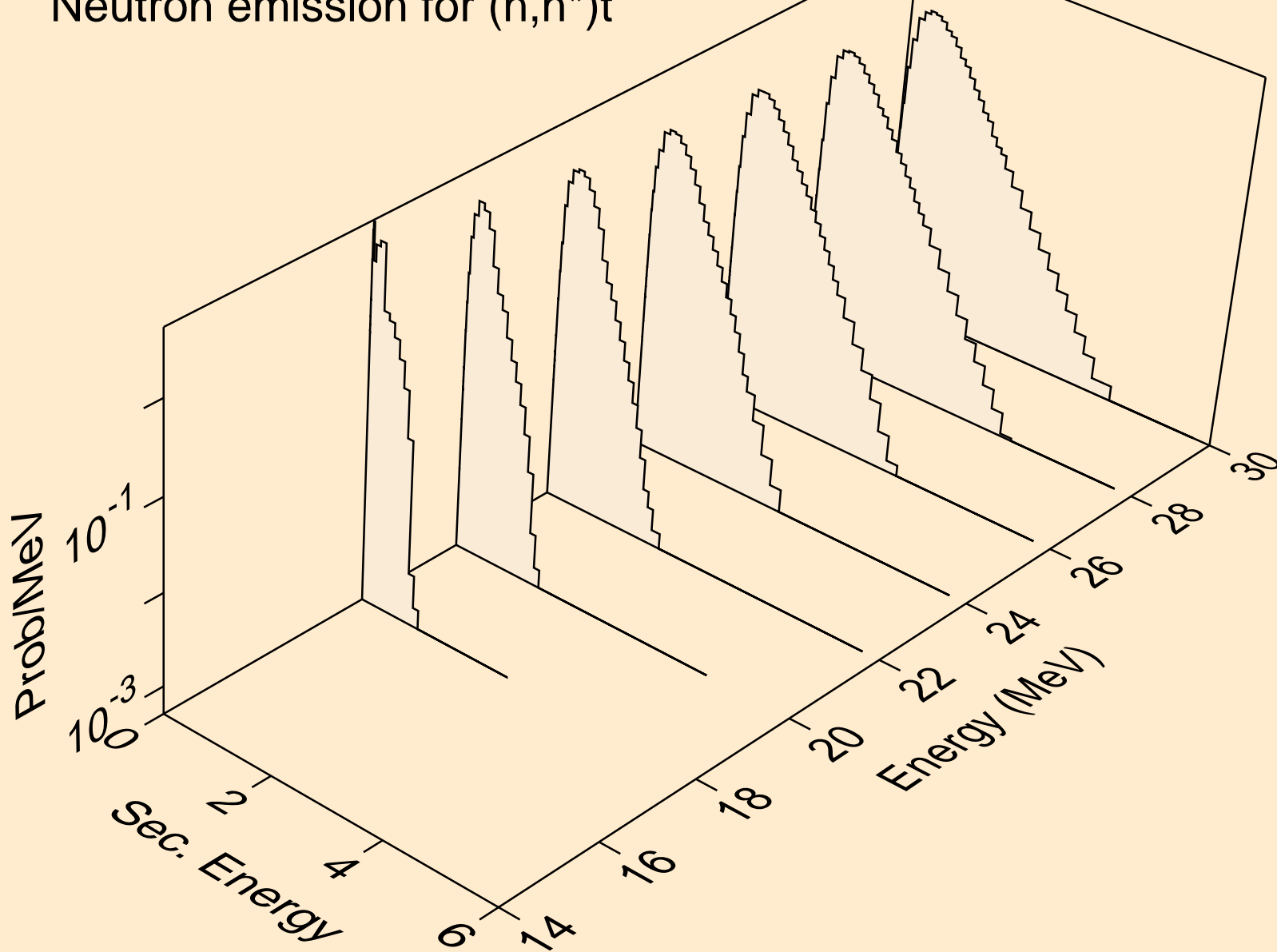
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,2n)2a



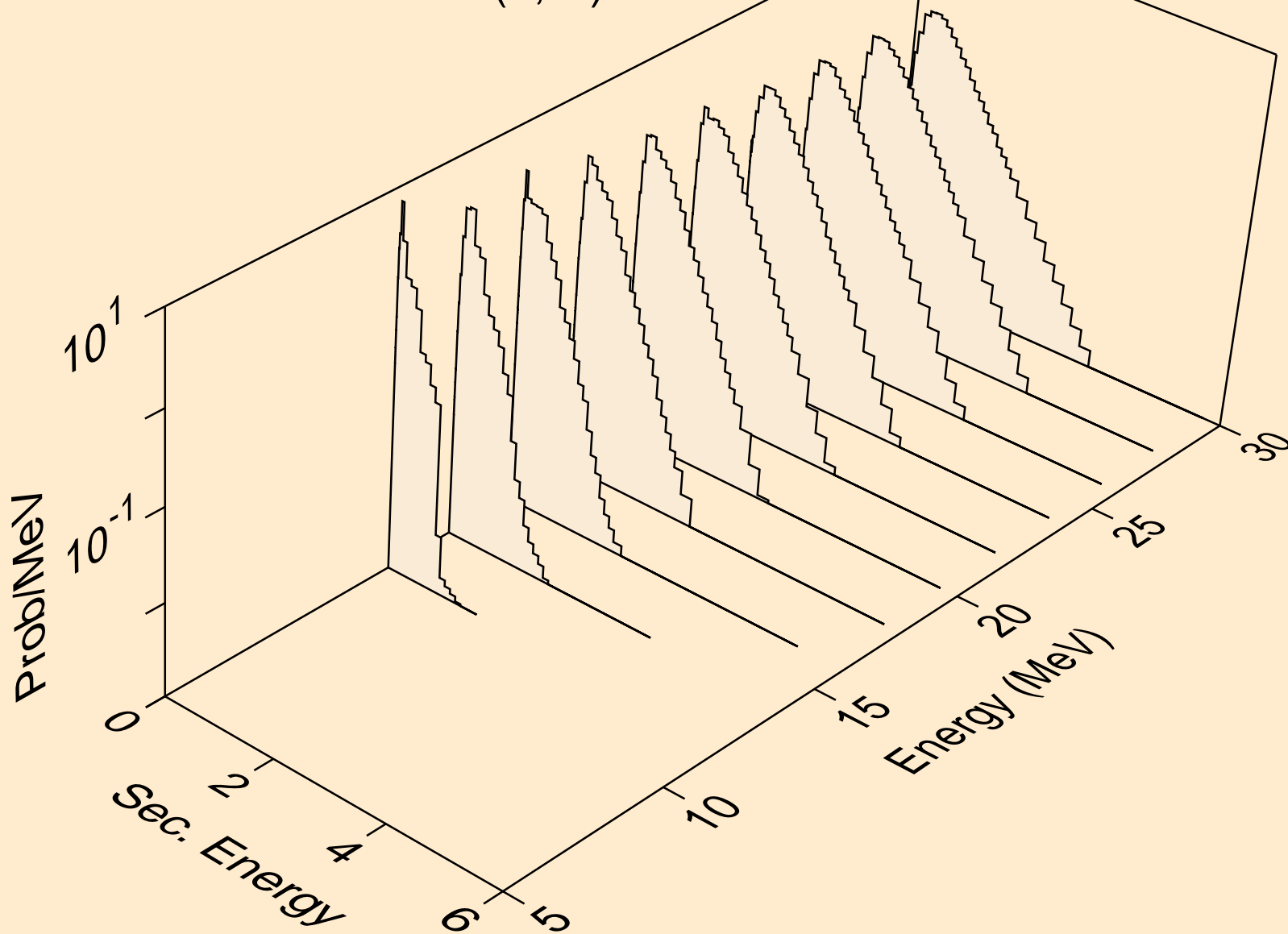
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,n*)d



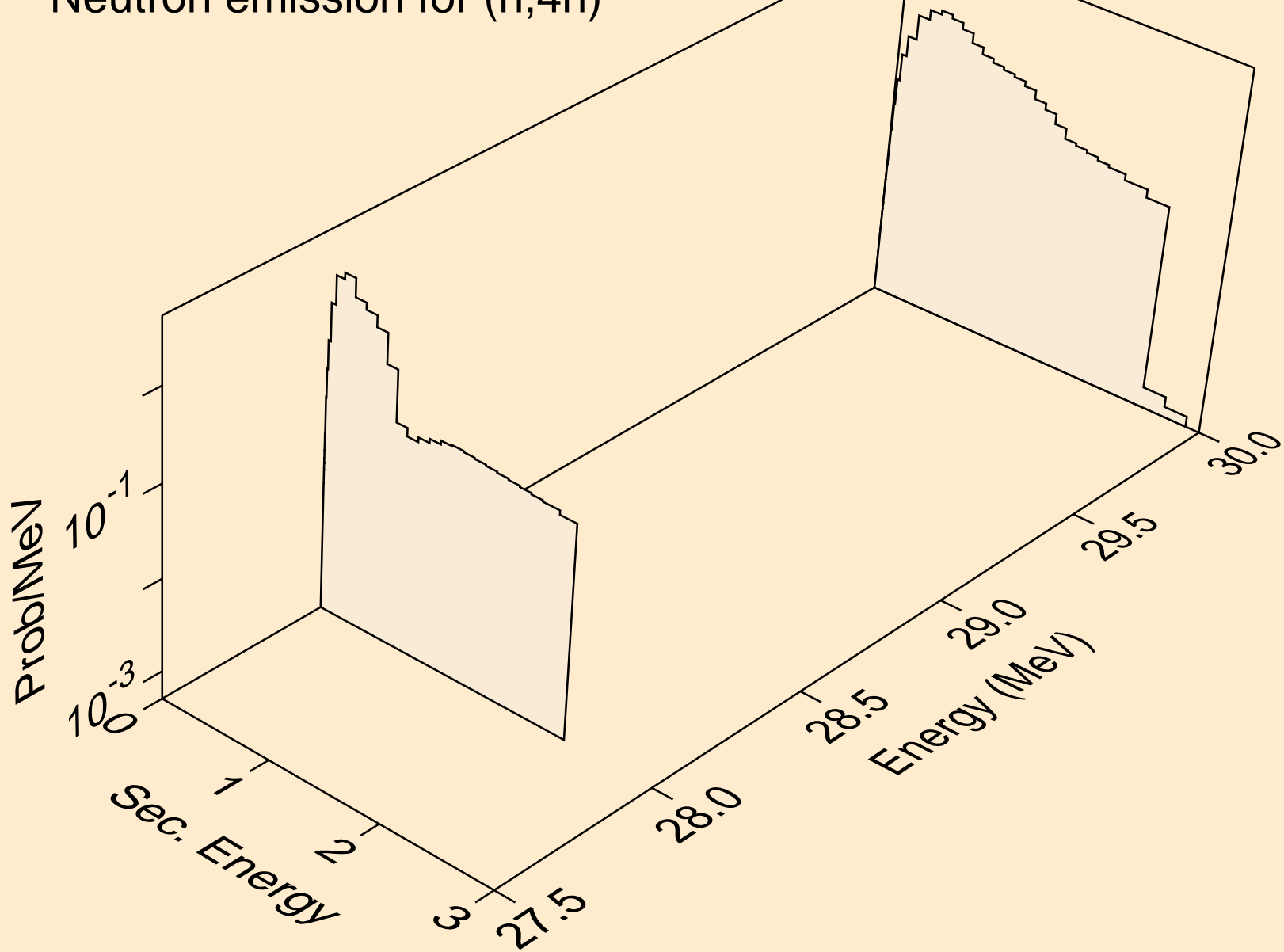
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,n*)t



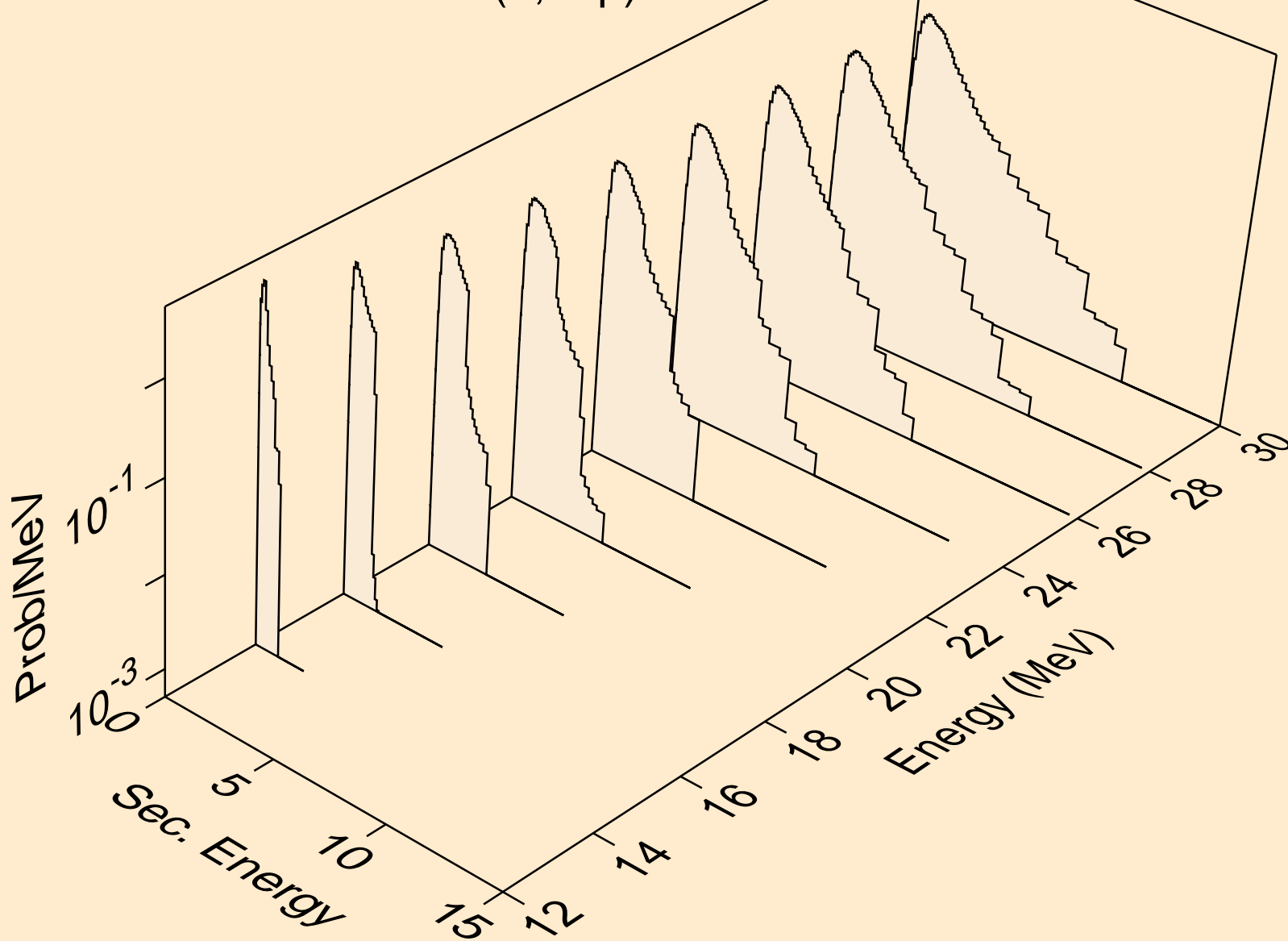
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,n*)he3



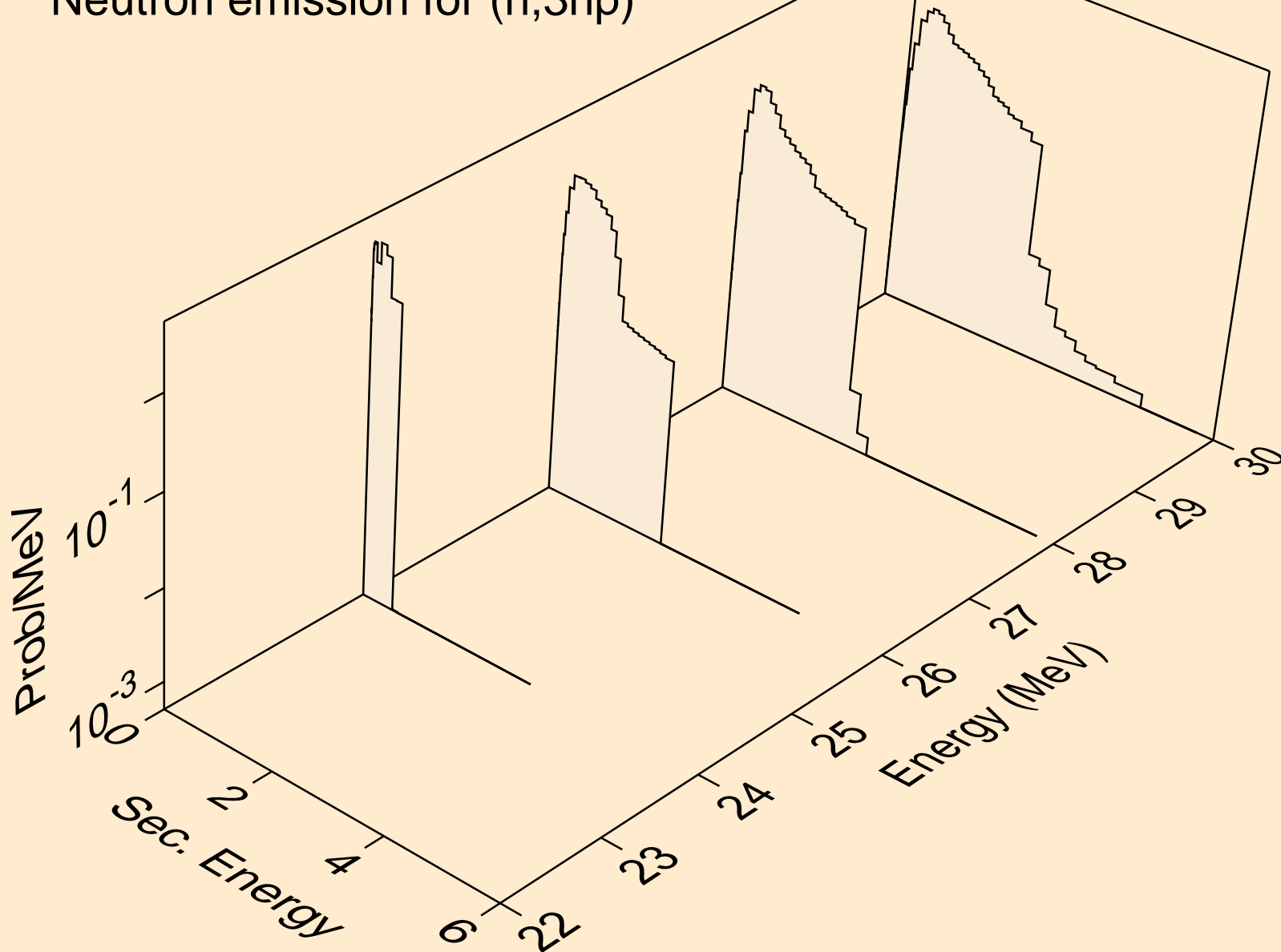
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,4n)



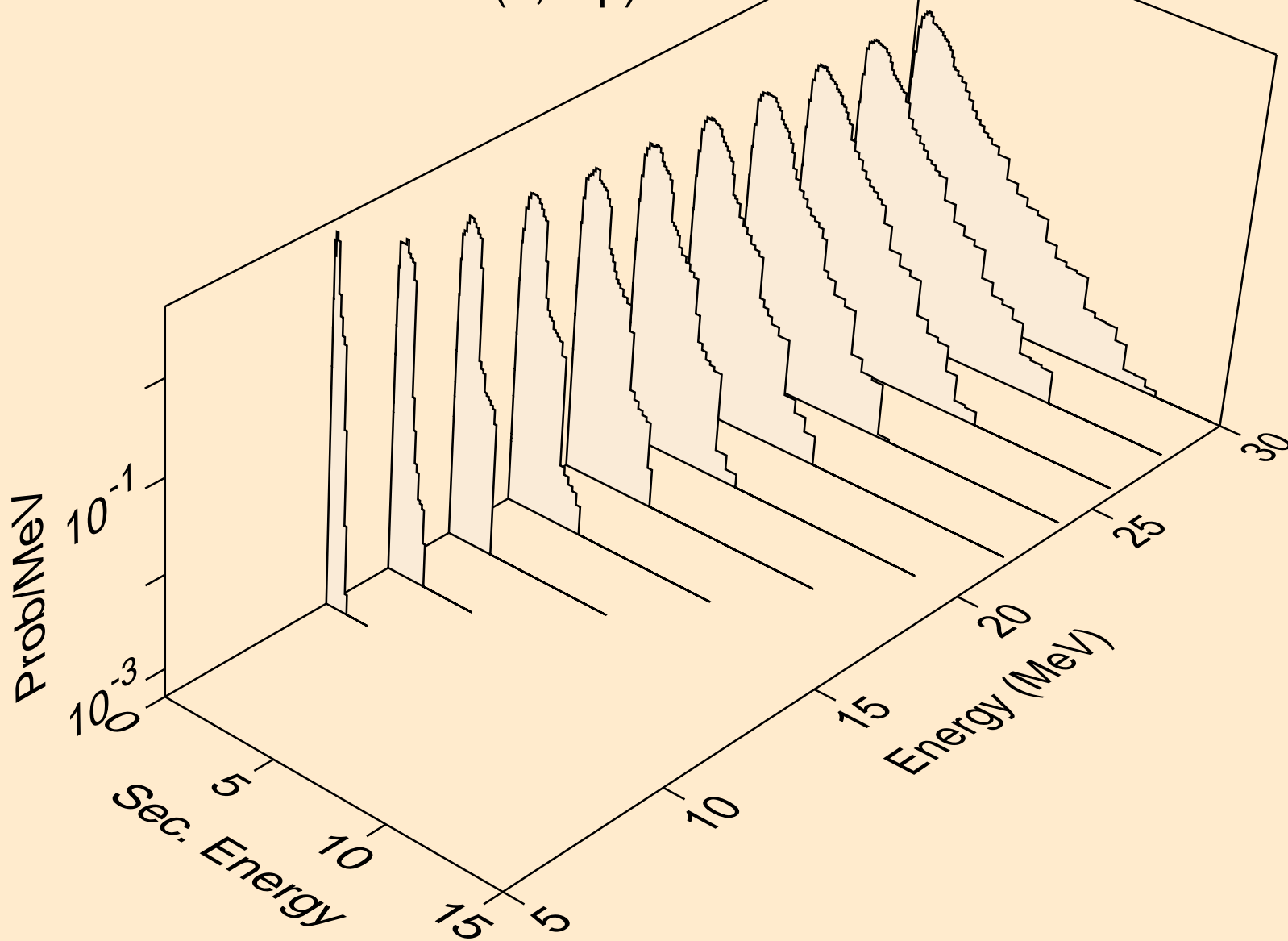
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,2np)



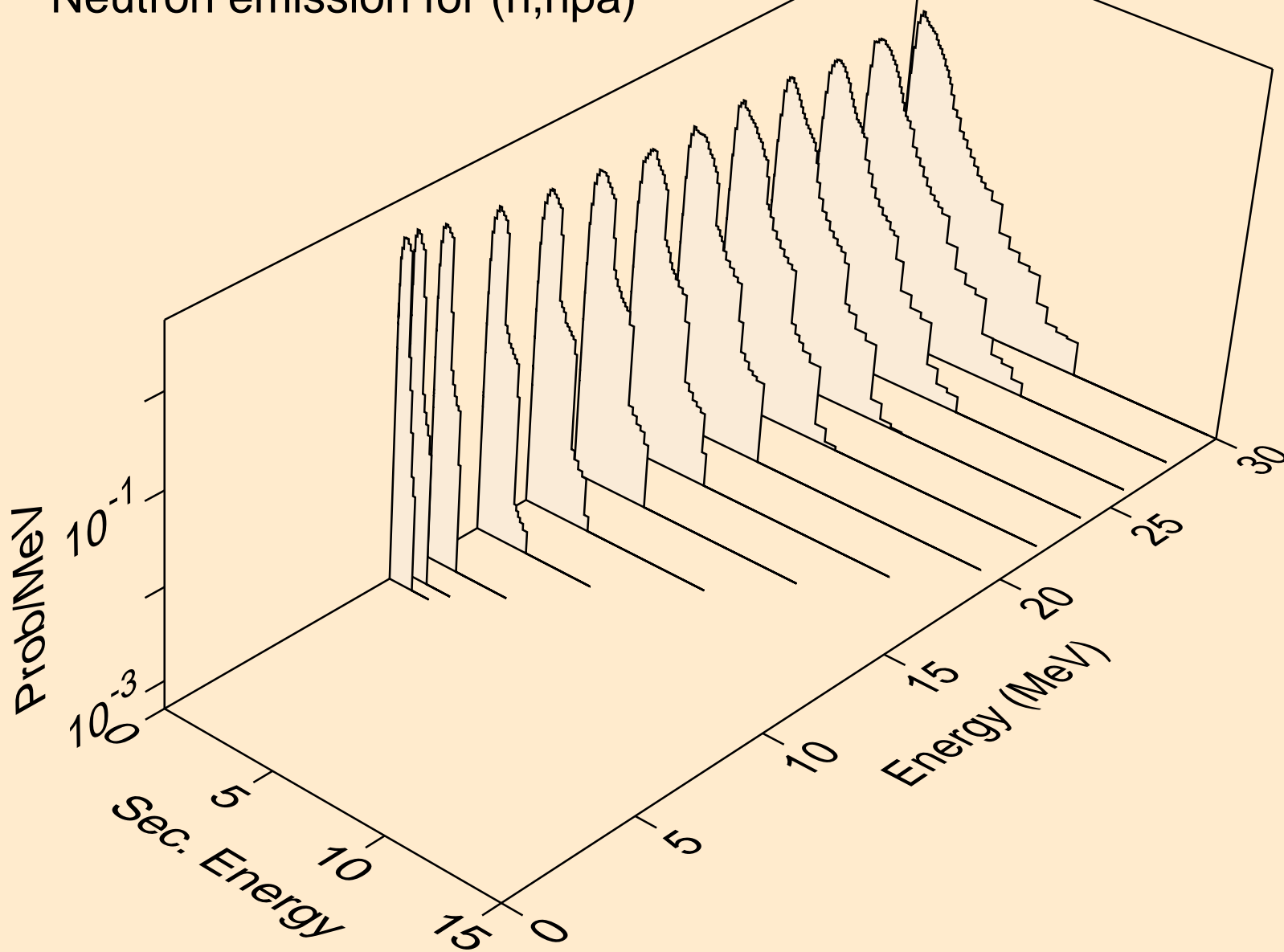
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,3np)



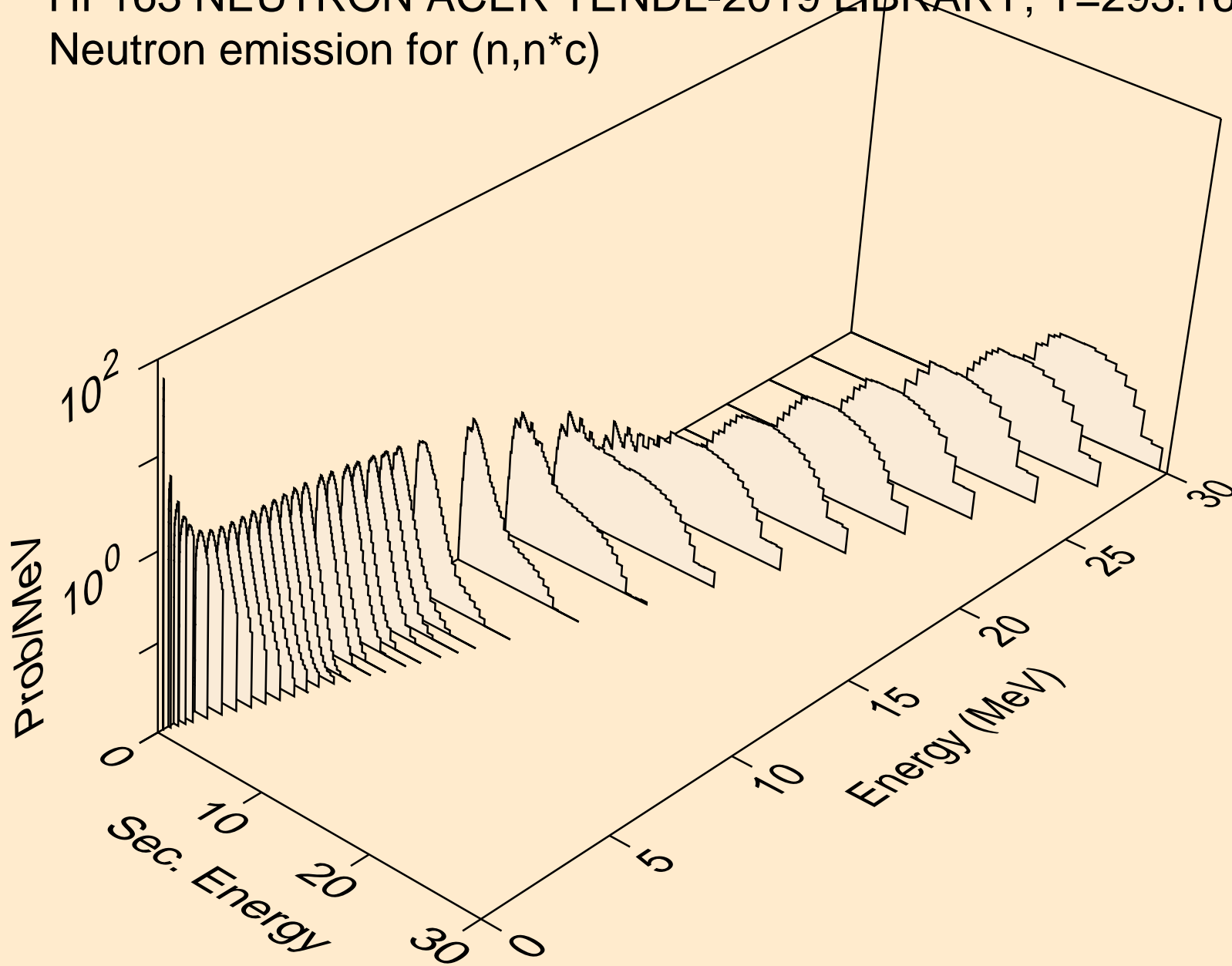
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,2np)



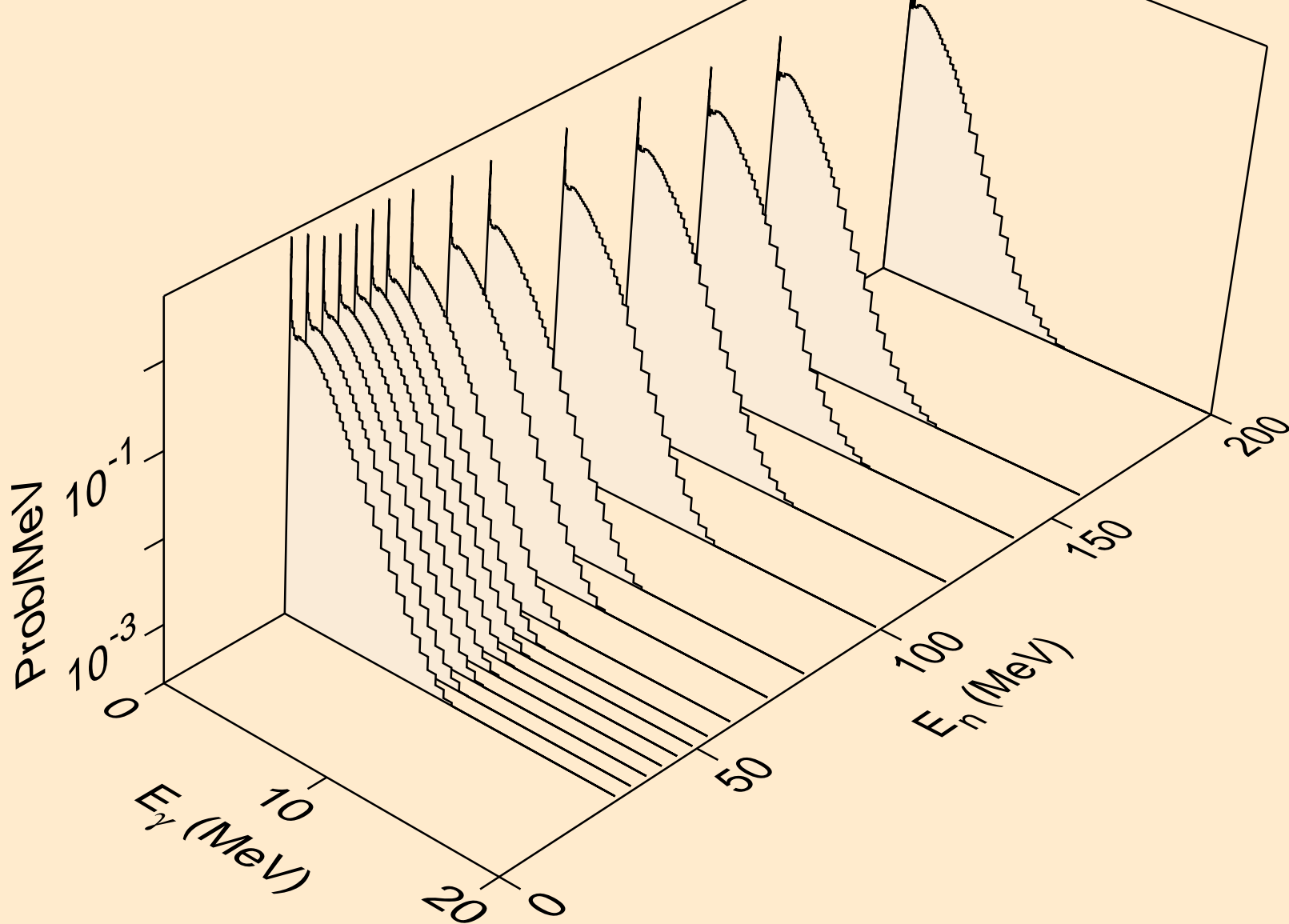
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,npa)



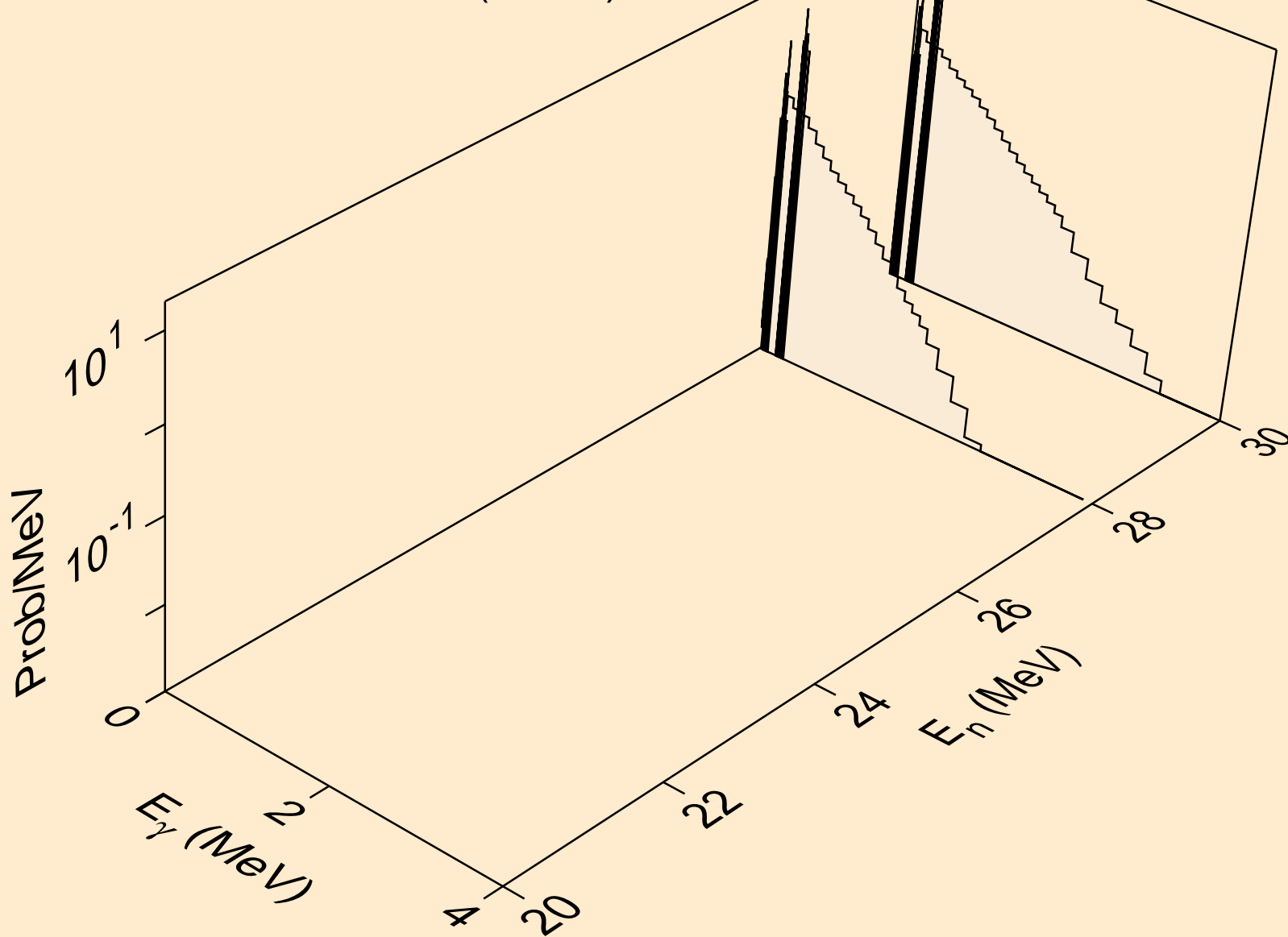
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Neutron emission for (n,n*c)



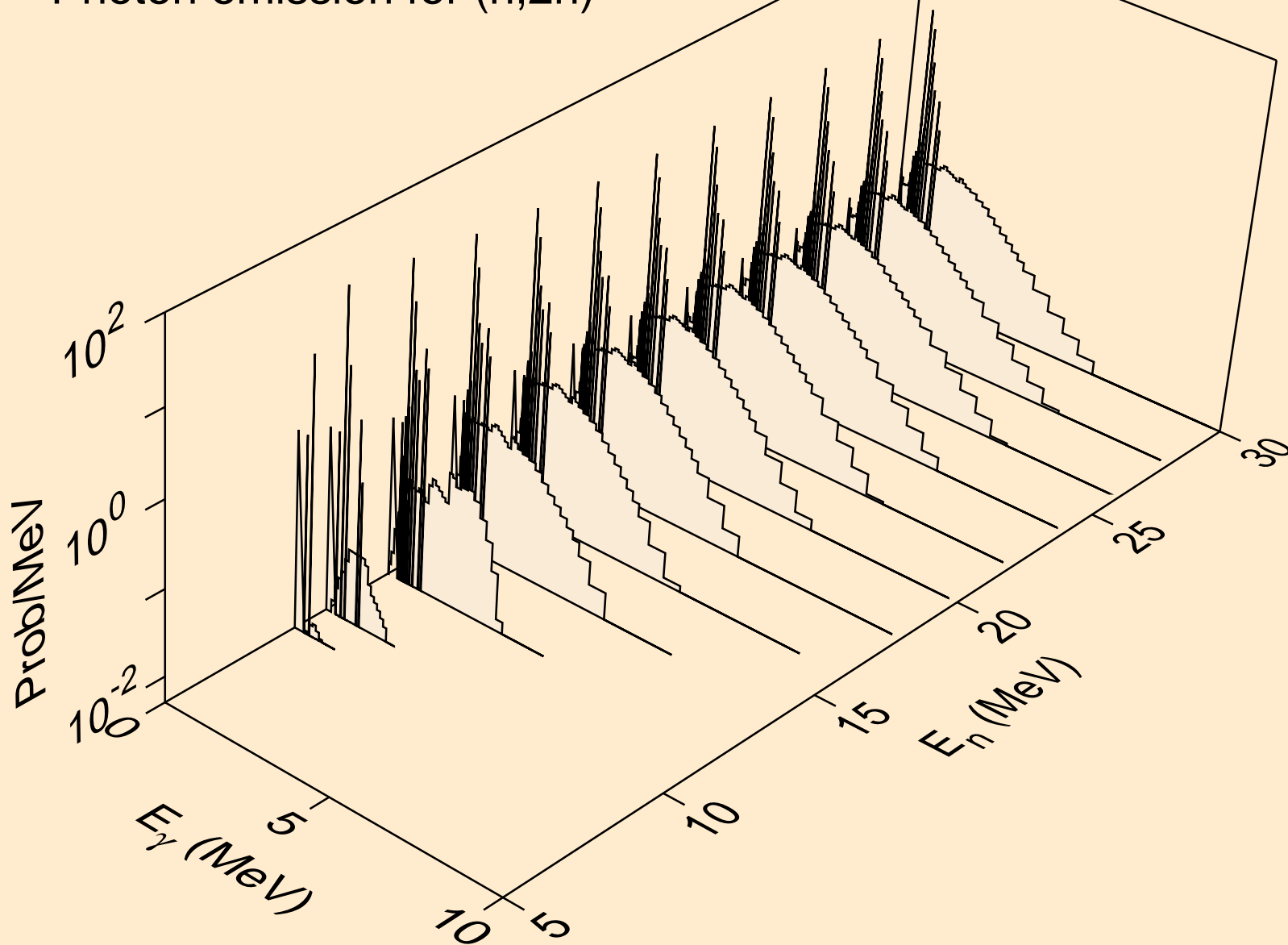
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,x)



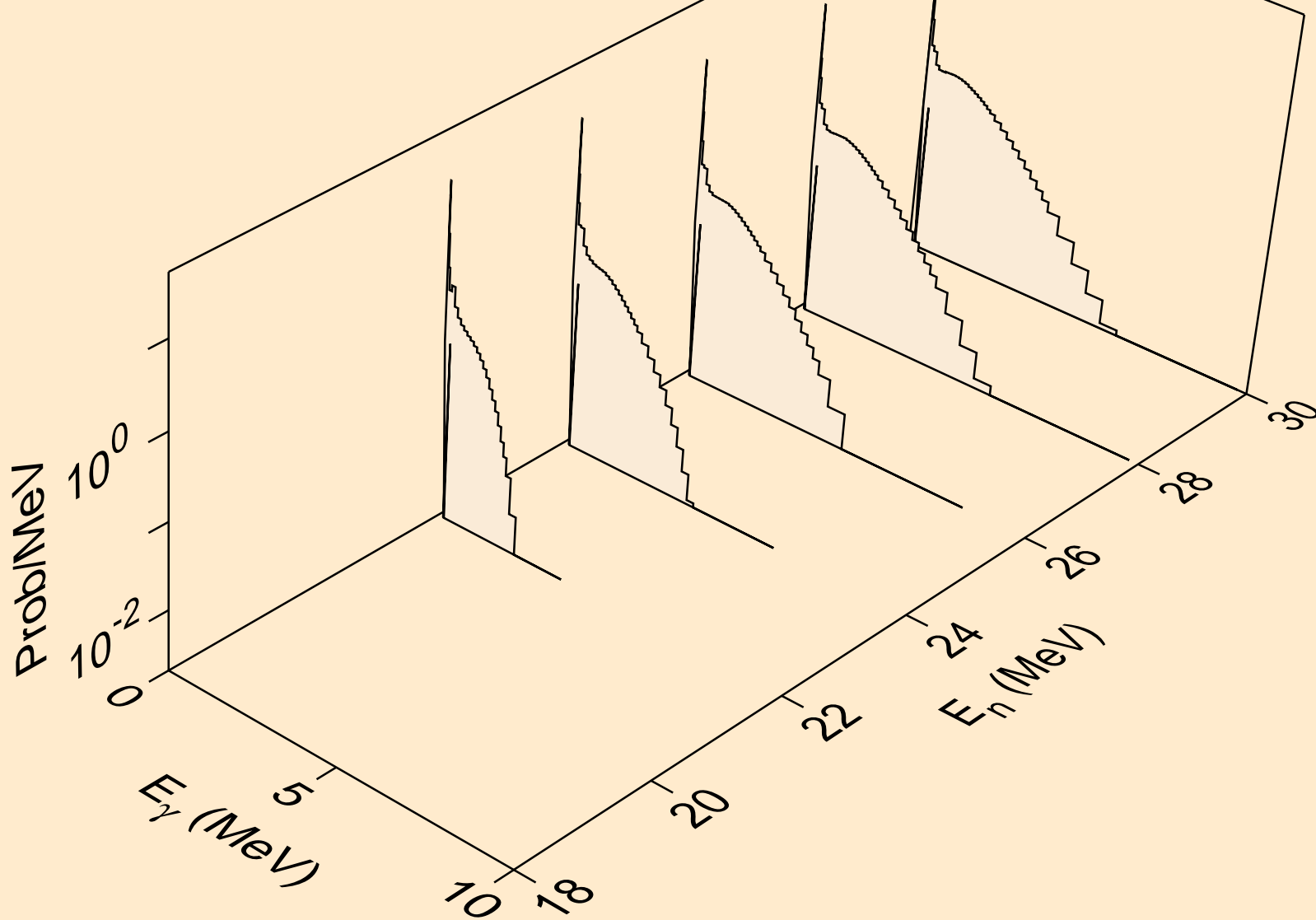
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,2nd)



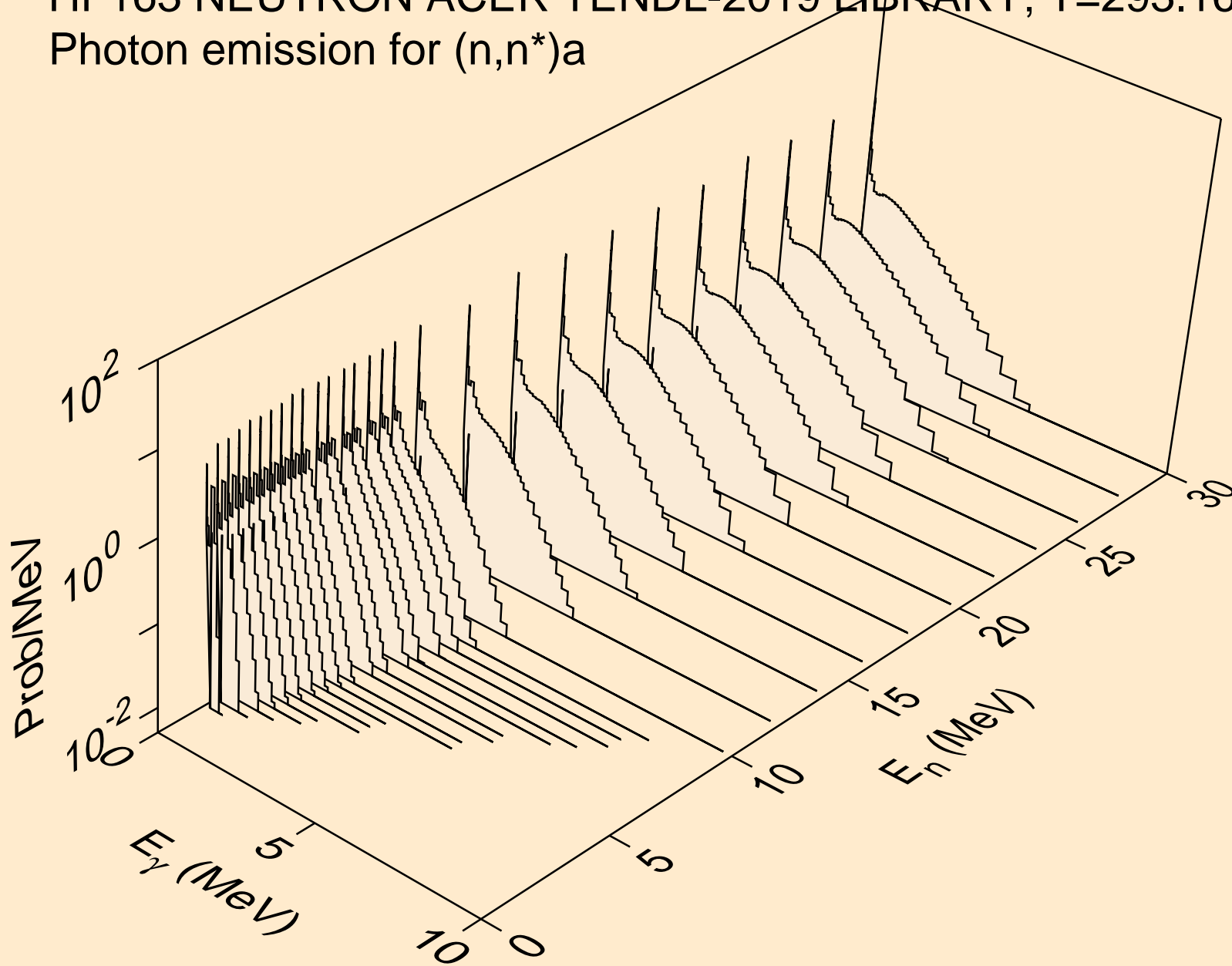
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,2n)



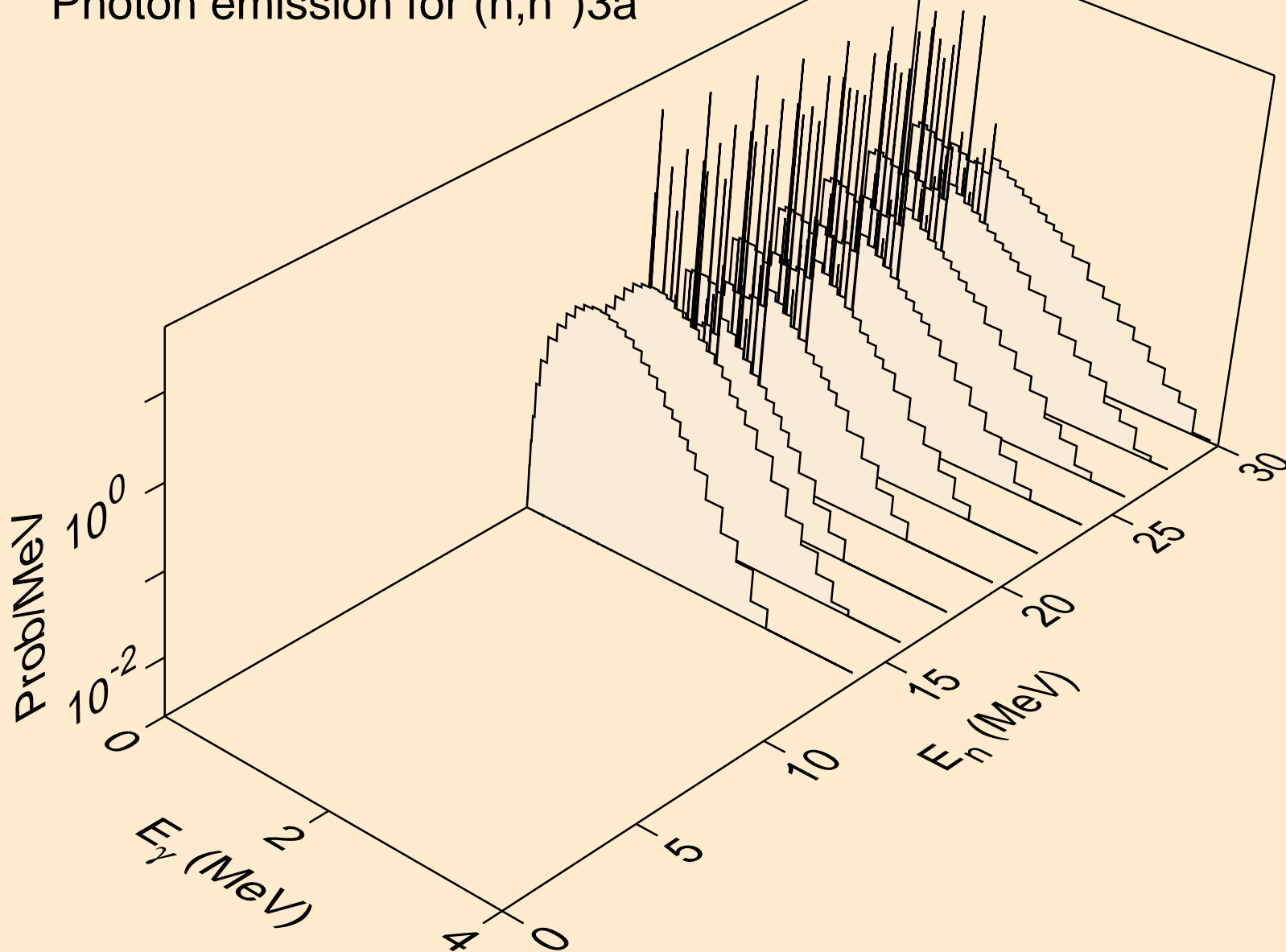
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,3n)



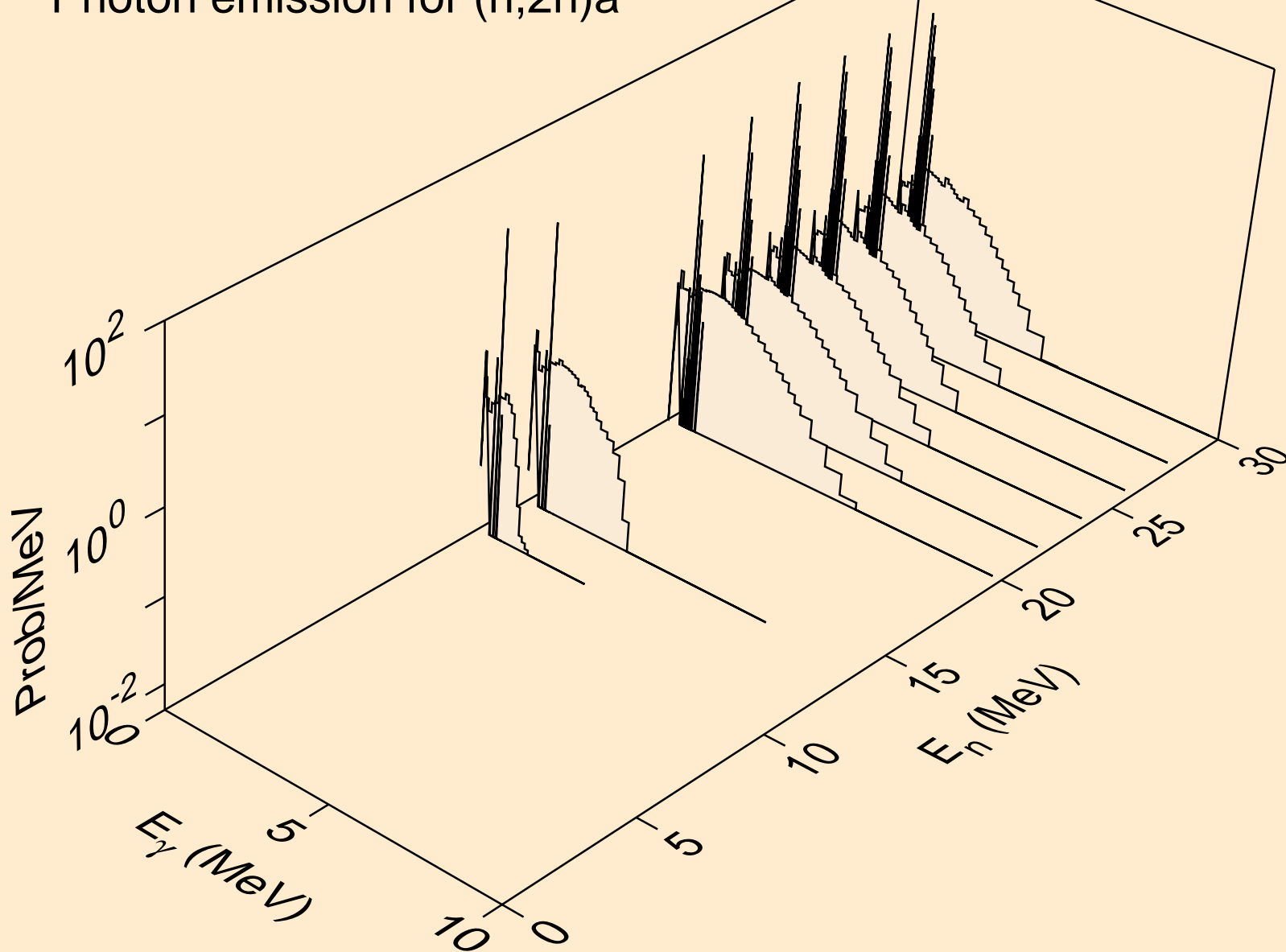
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*)a



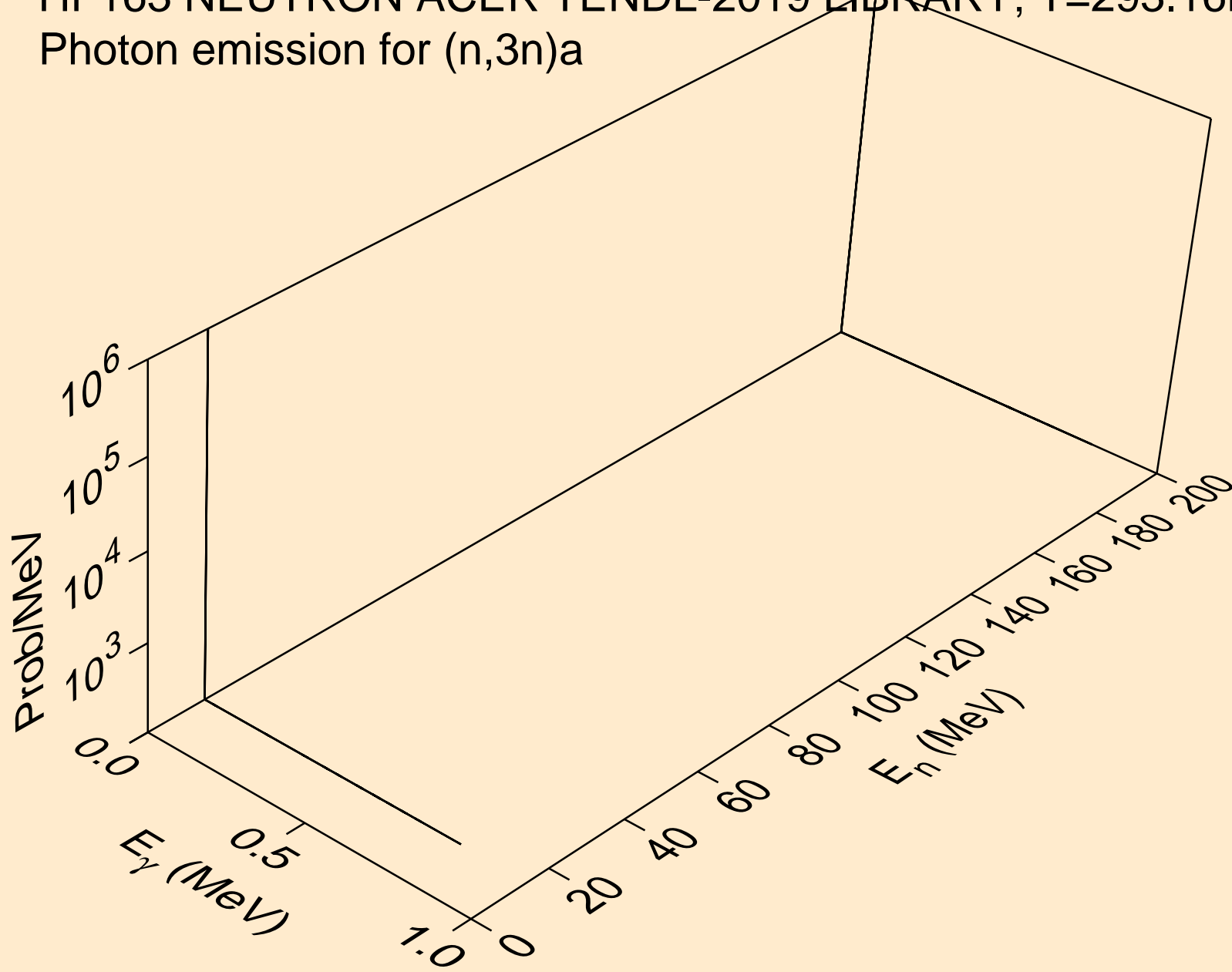
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*)3a



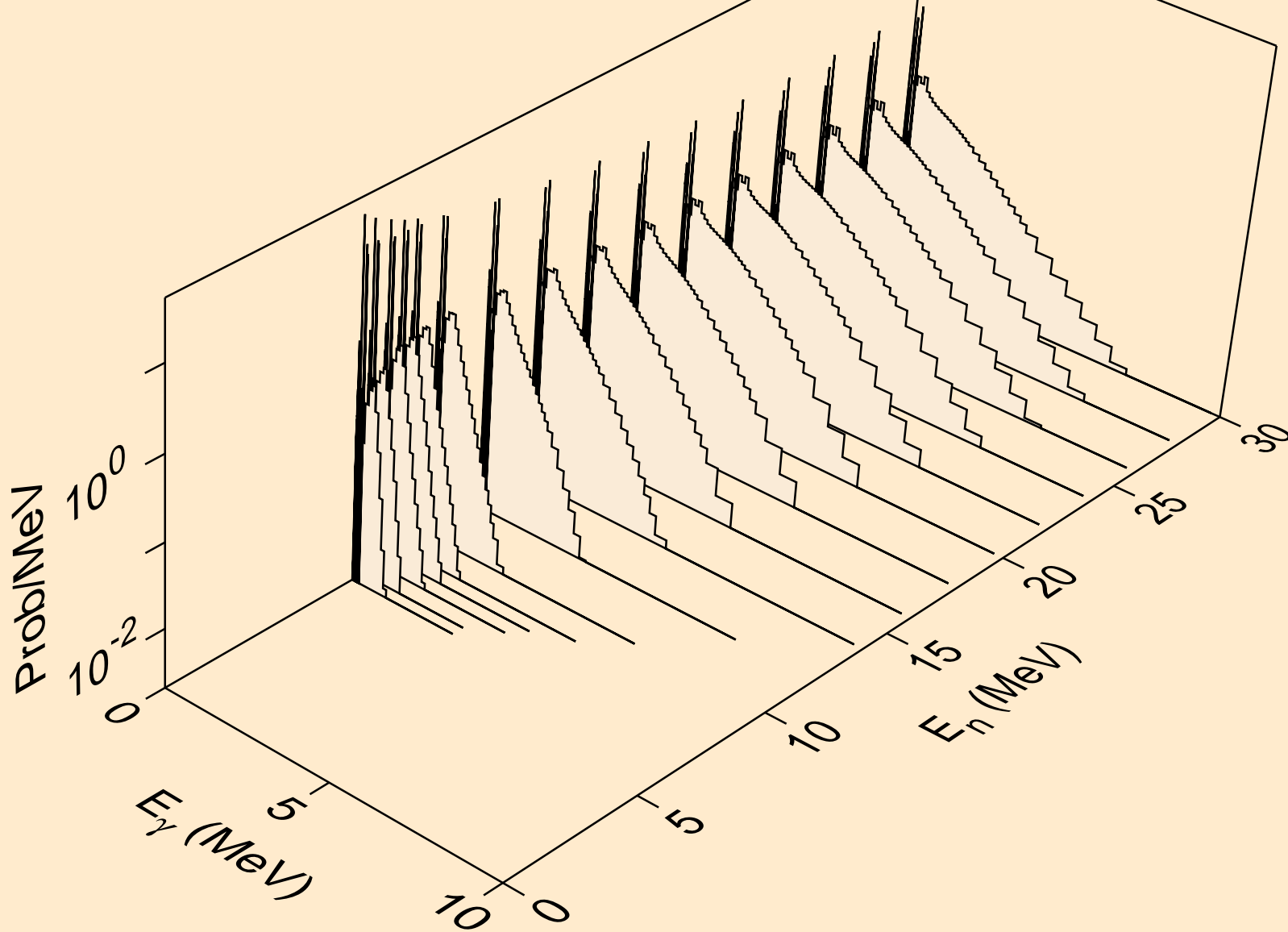
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,2n)_a



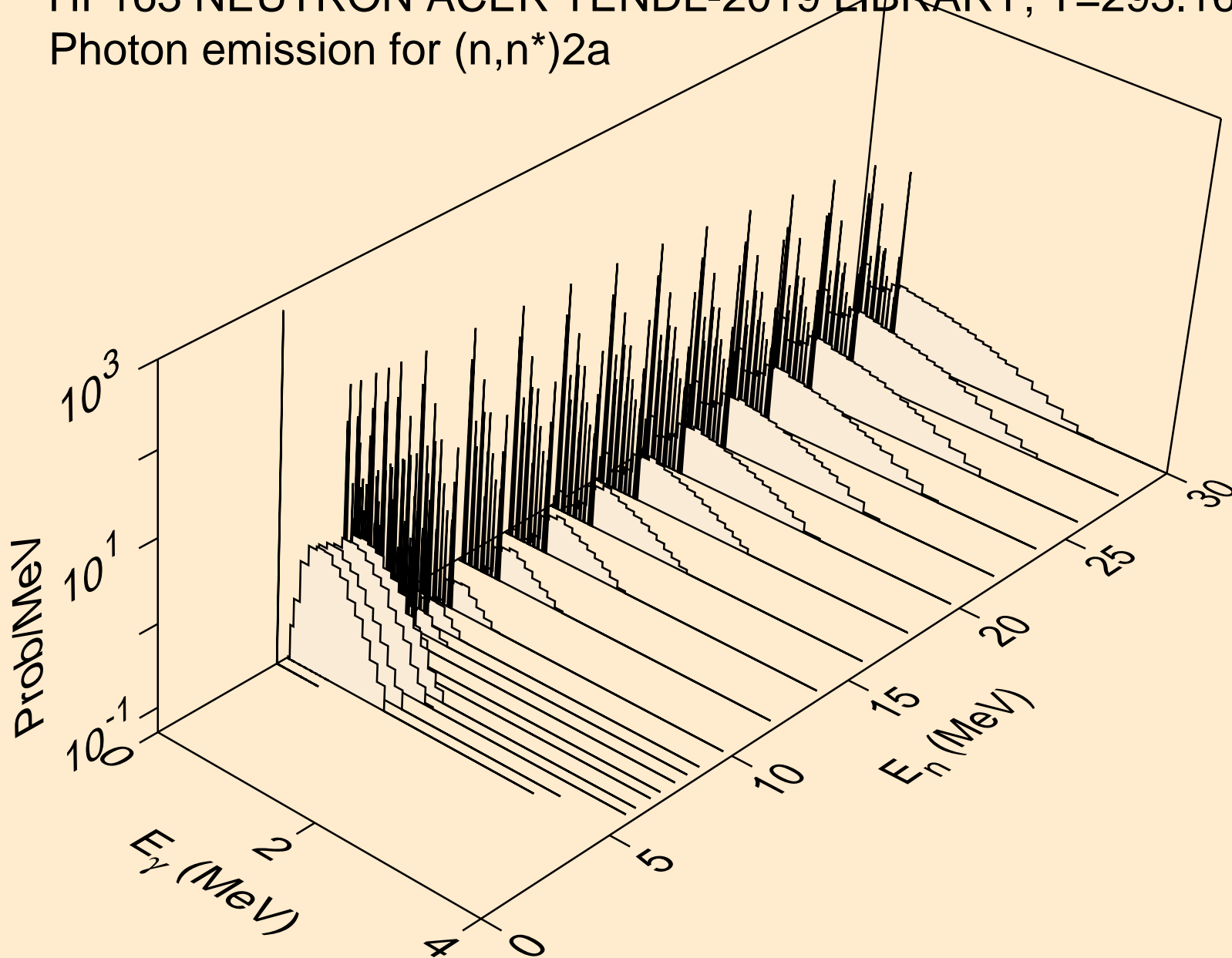
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,3n)a



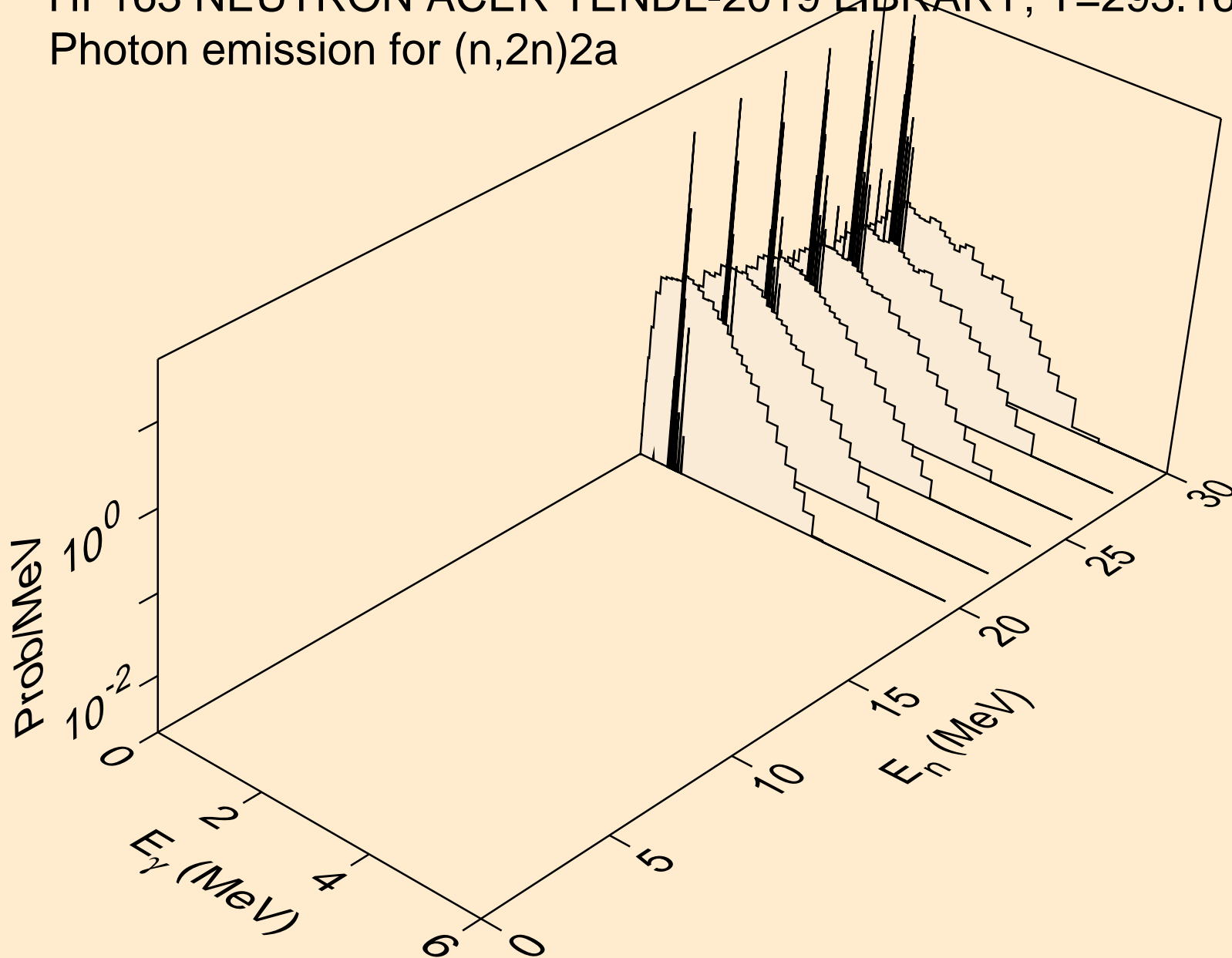
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*)p



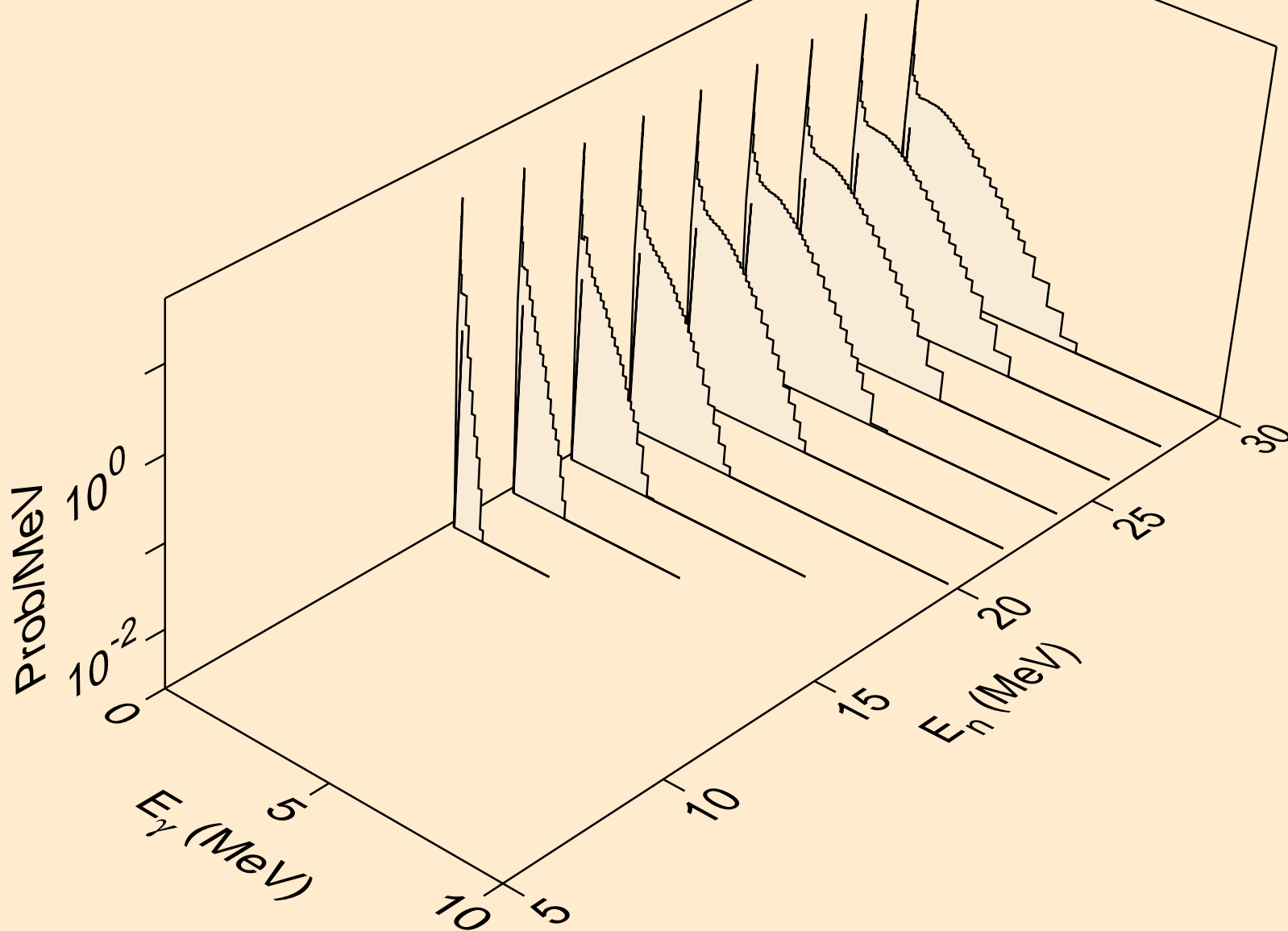
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*)2a



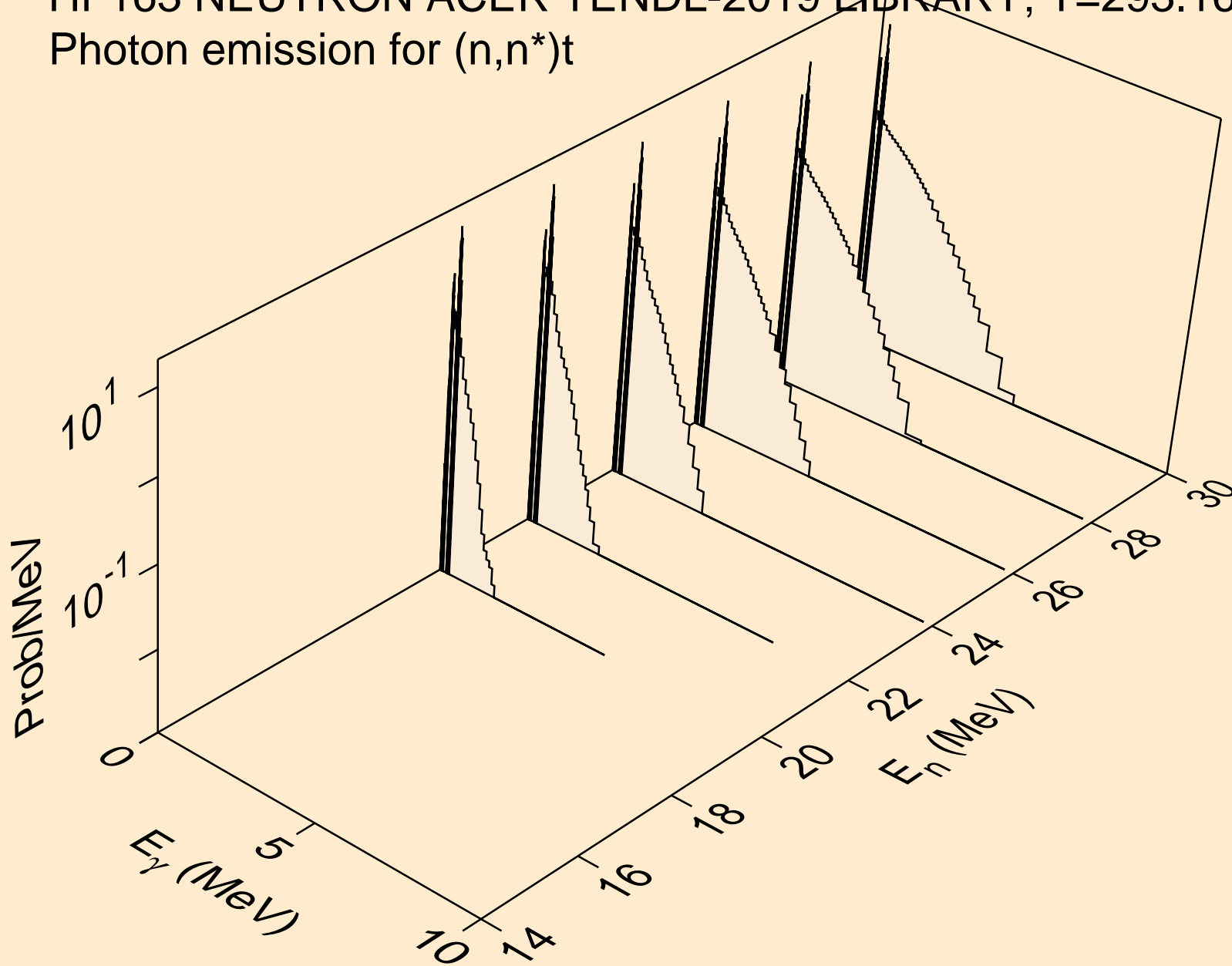
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,2n)2a



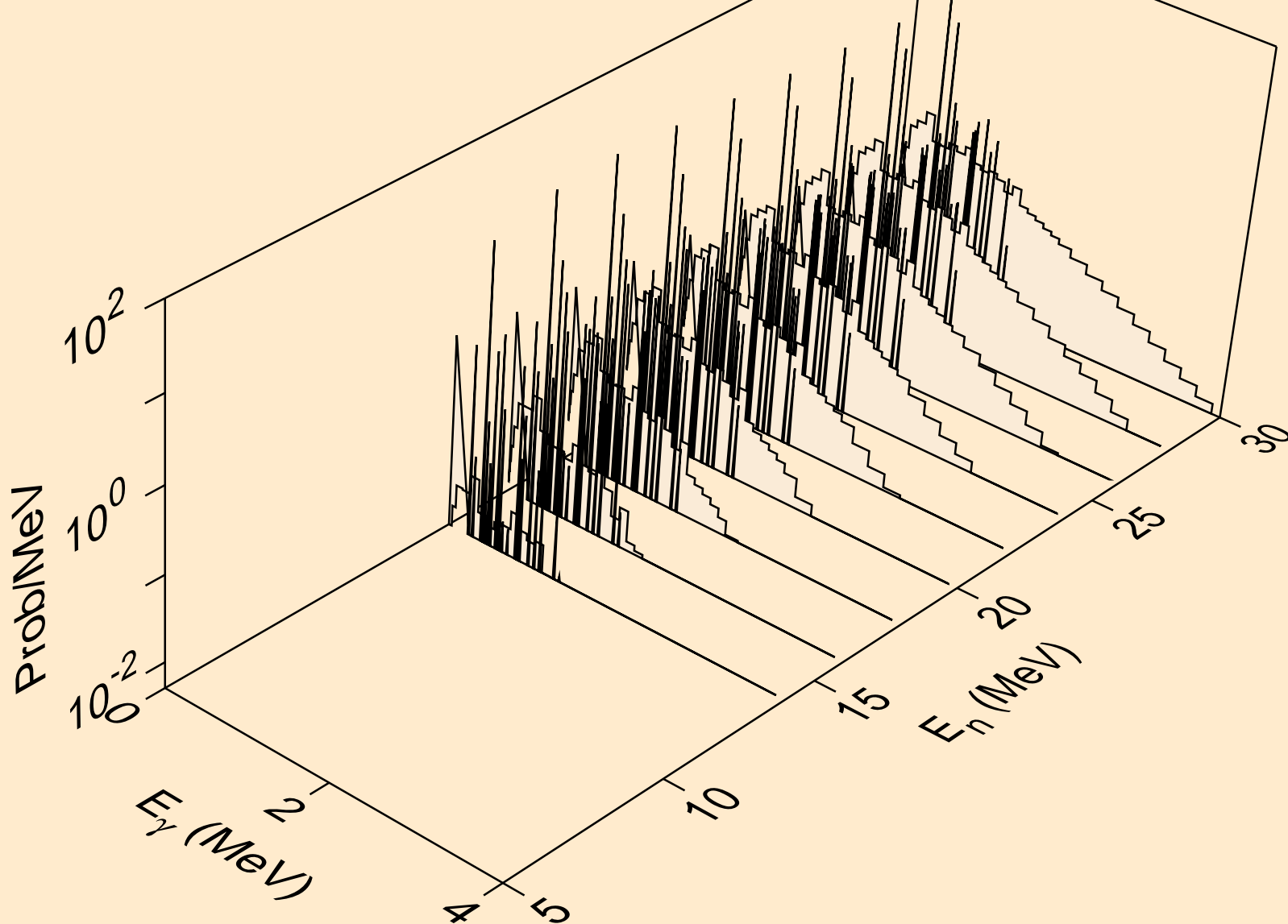
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*)d



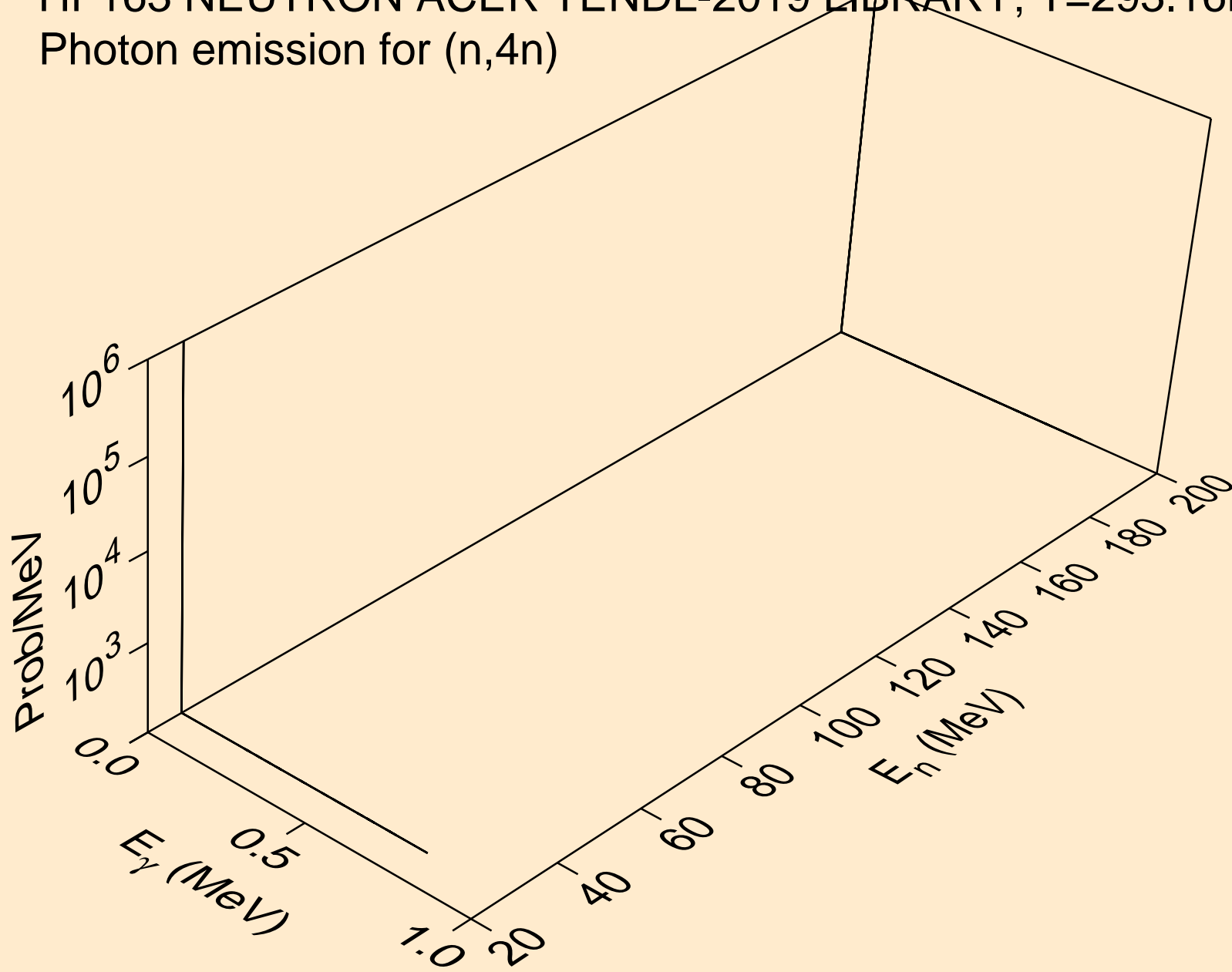
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*)t



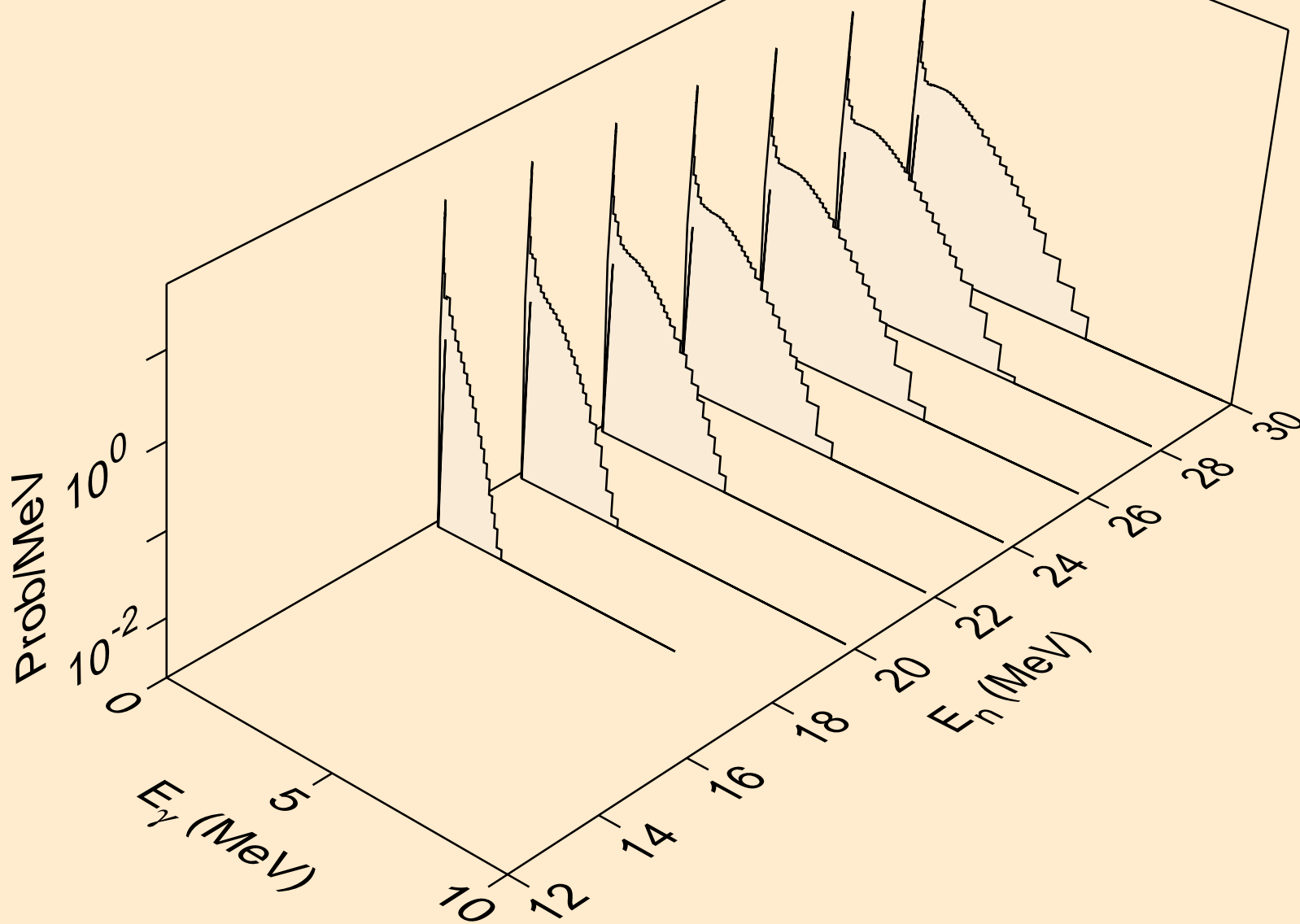
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*)he3



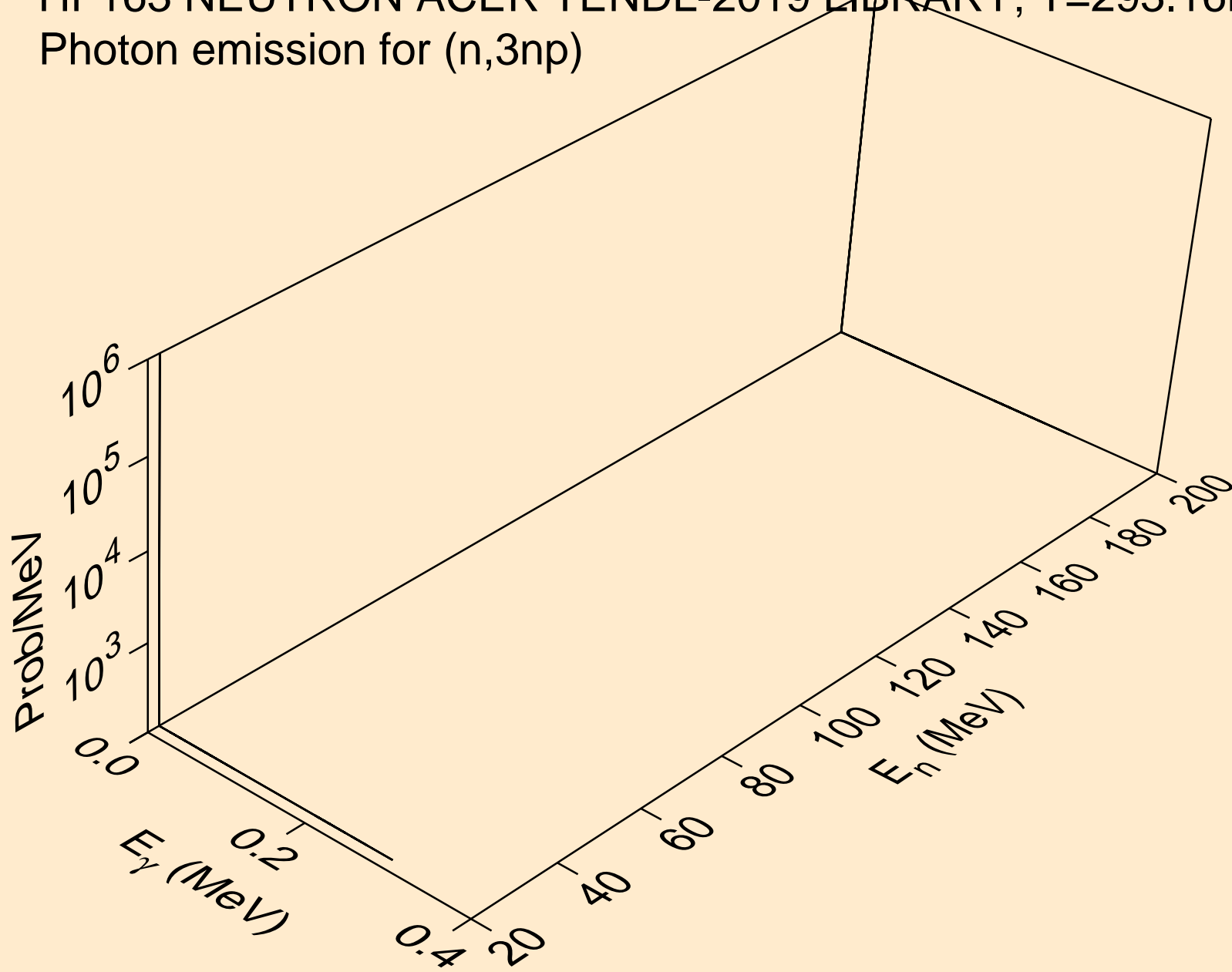
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,4n)



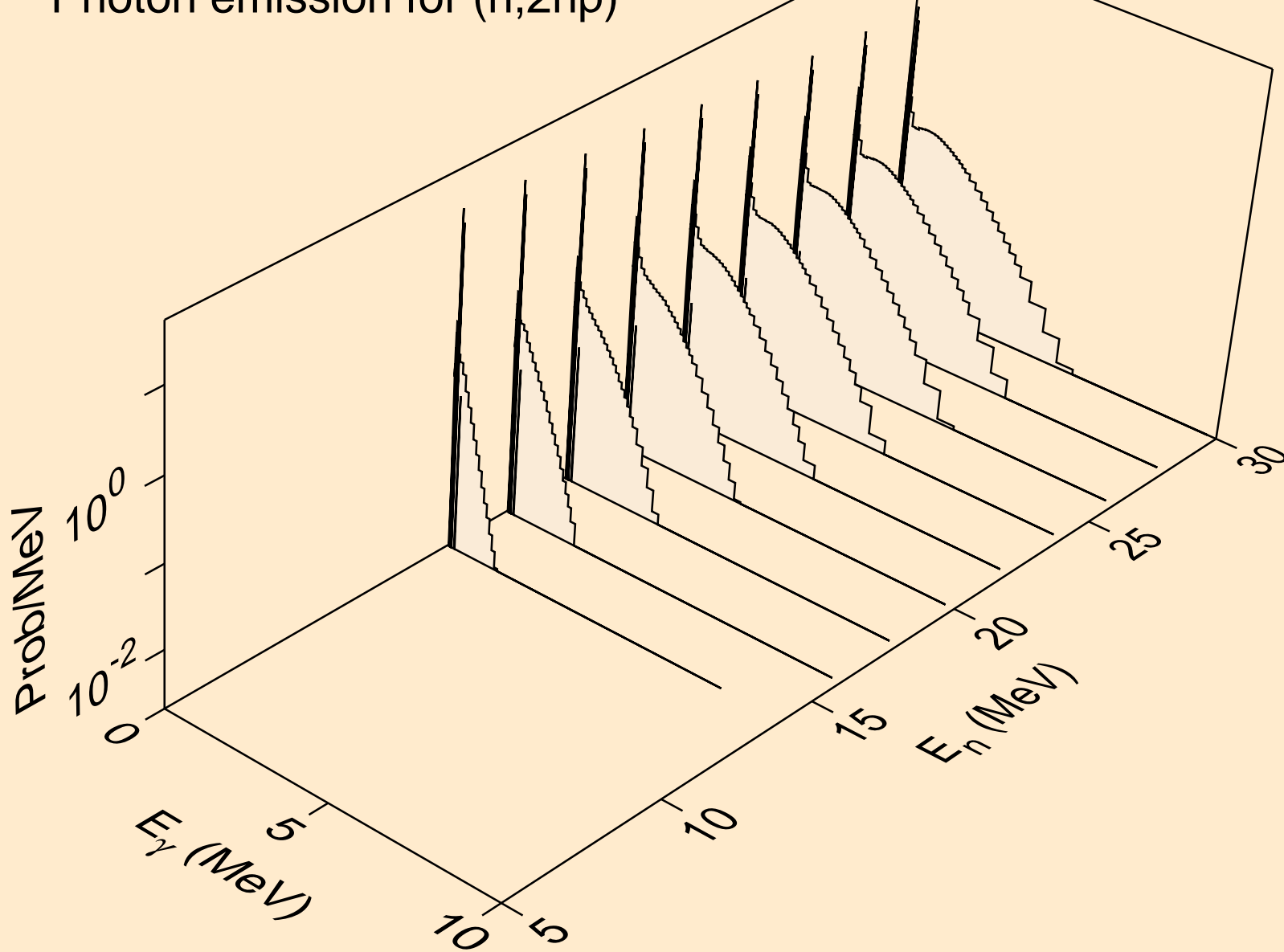
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,2np)



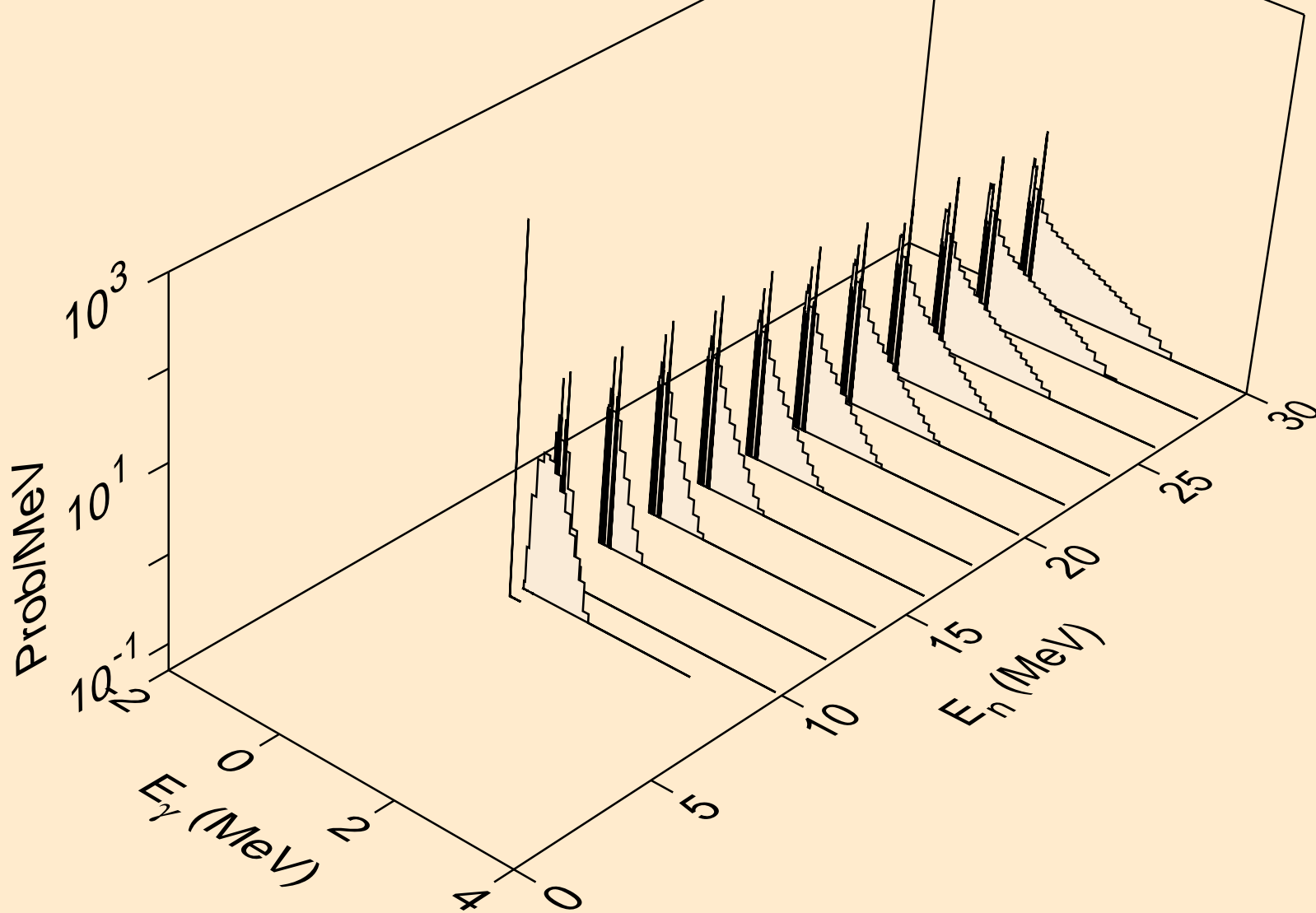
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,3np)



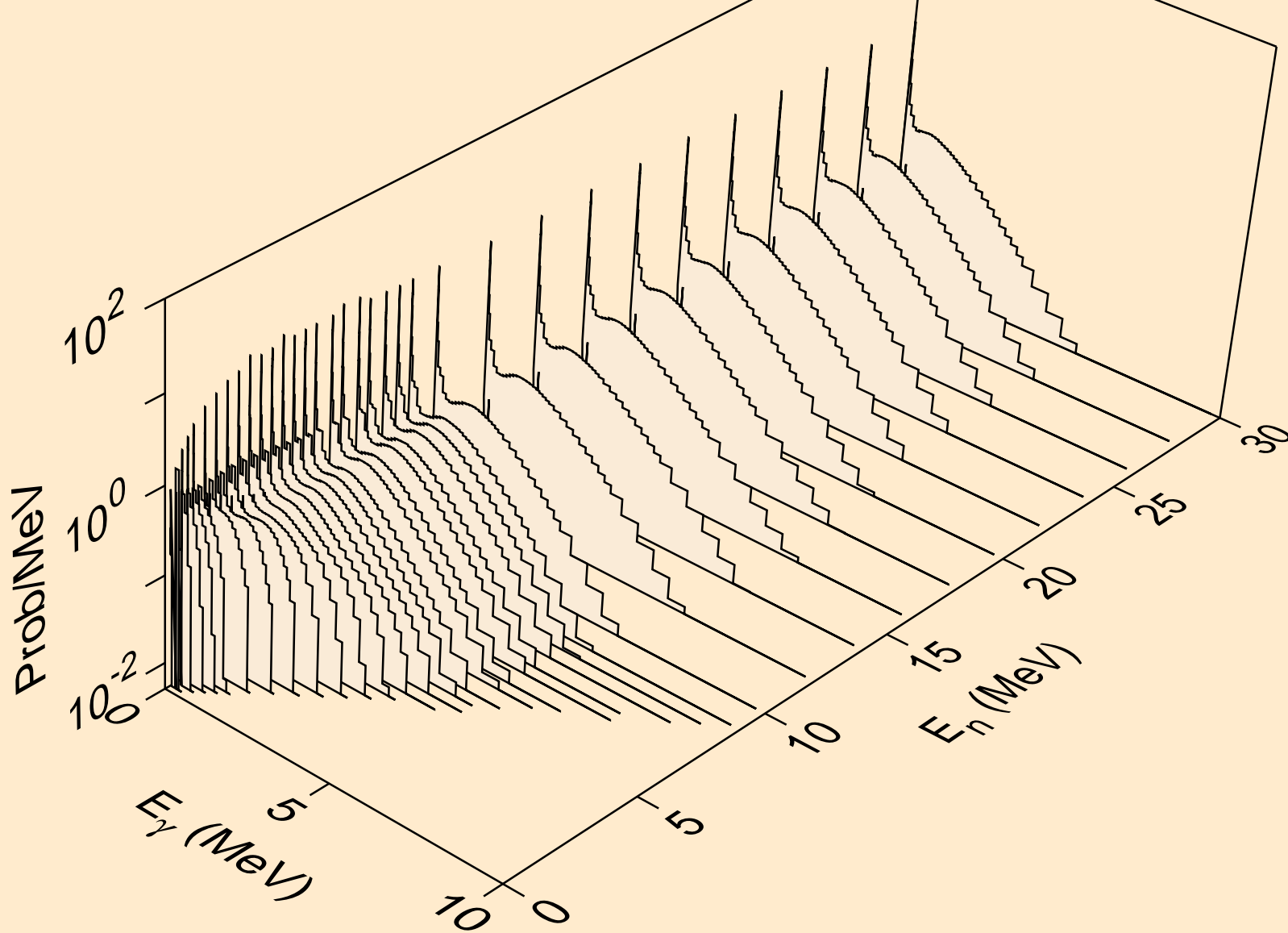
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,2np)



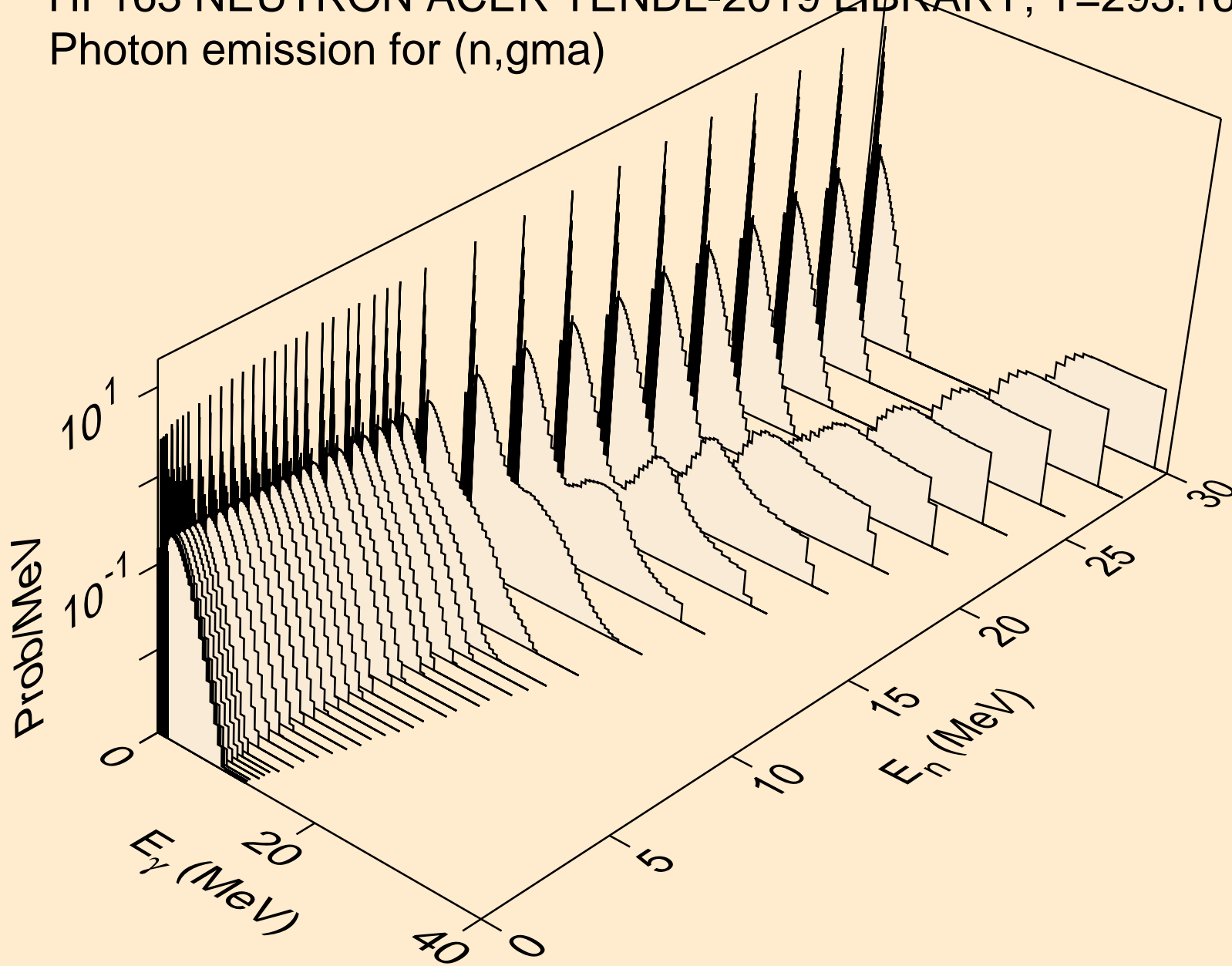
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,npa)



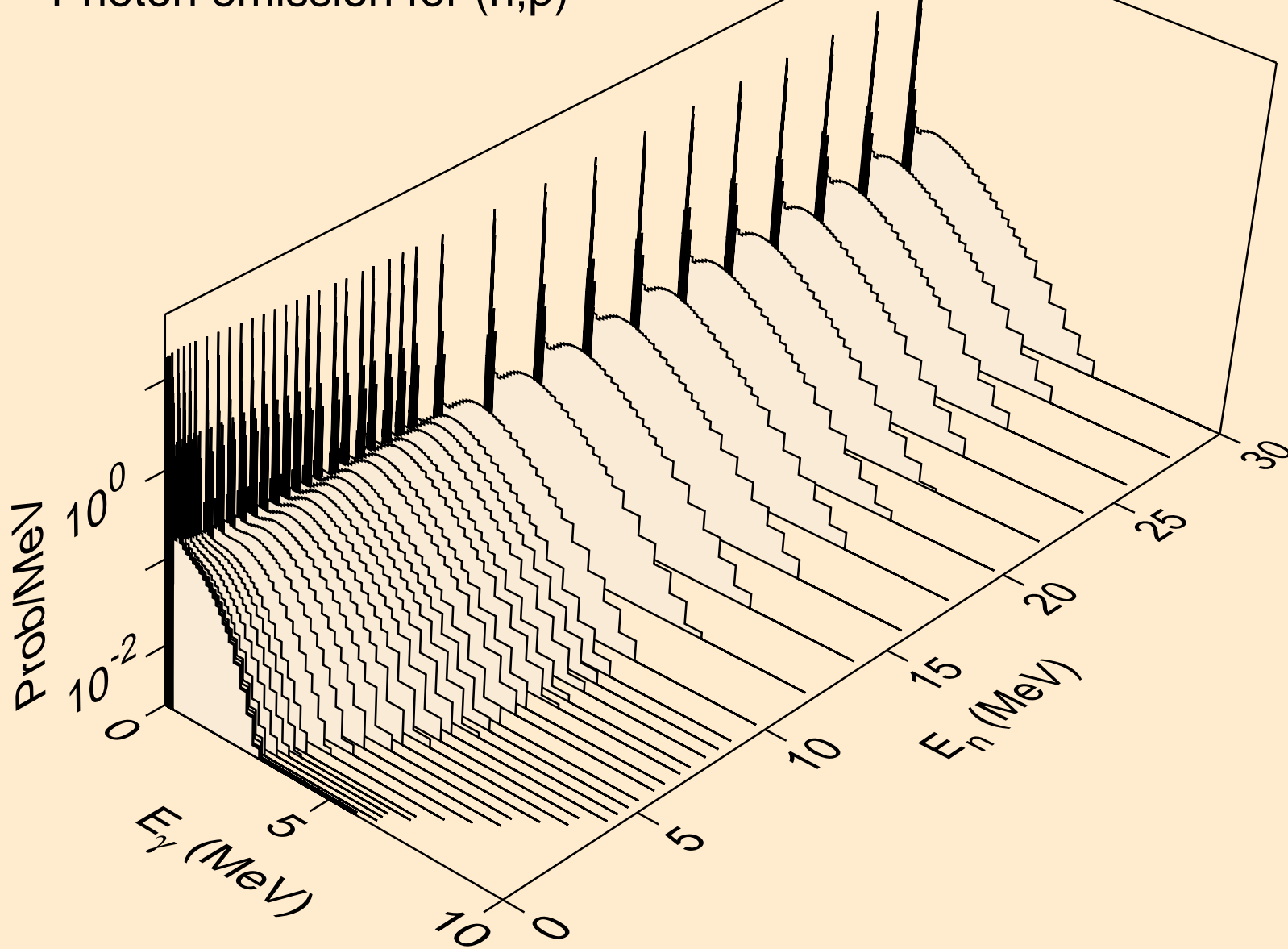
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*c)



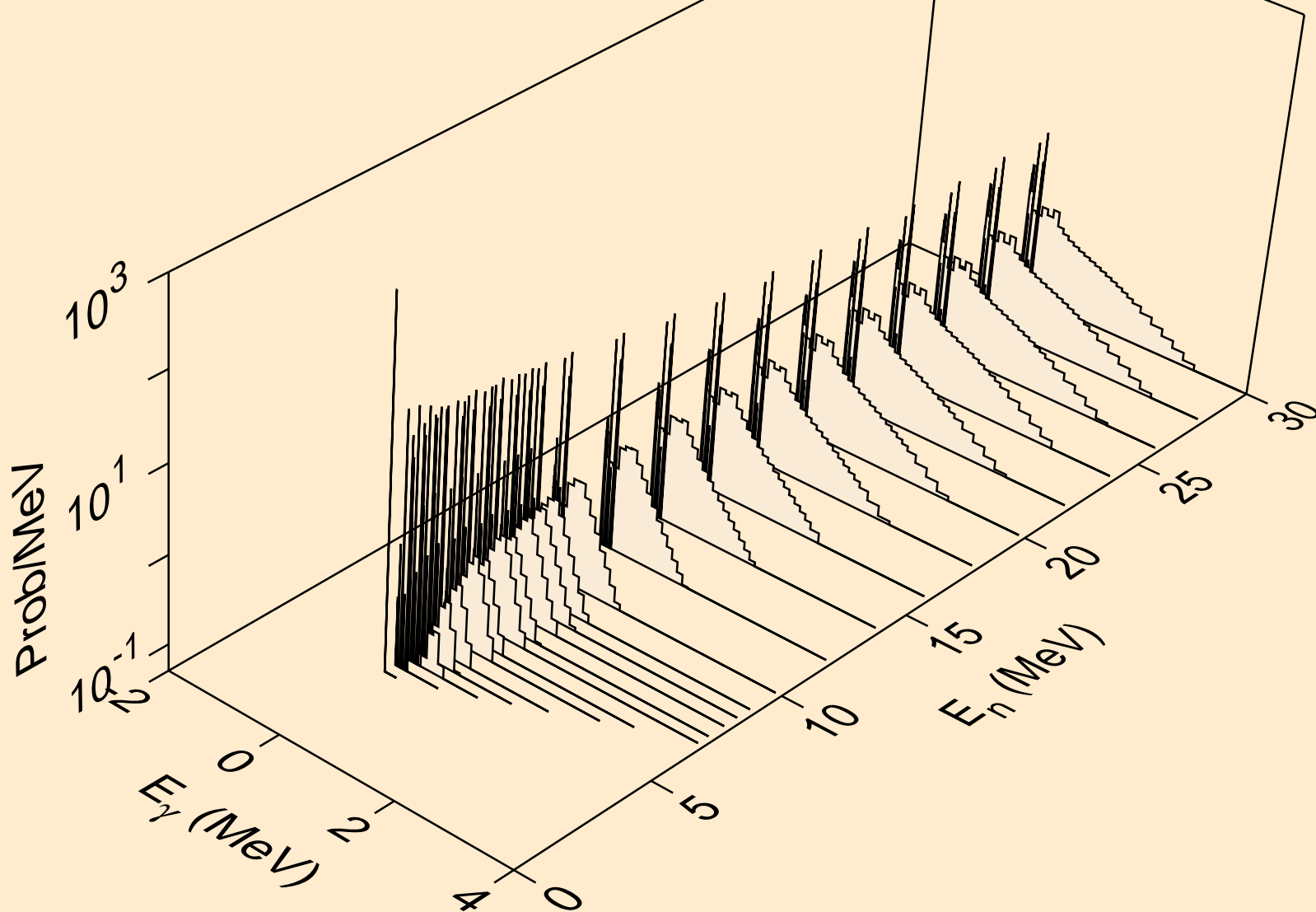
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,gma)



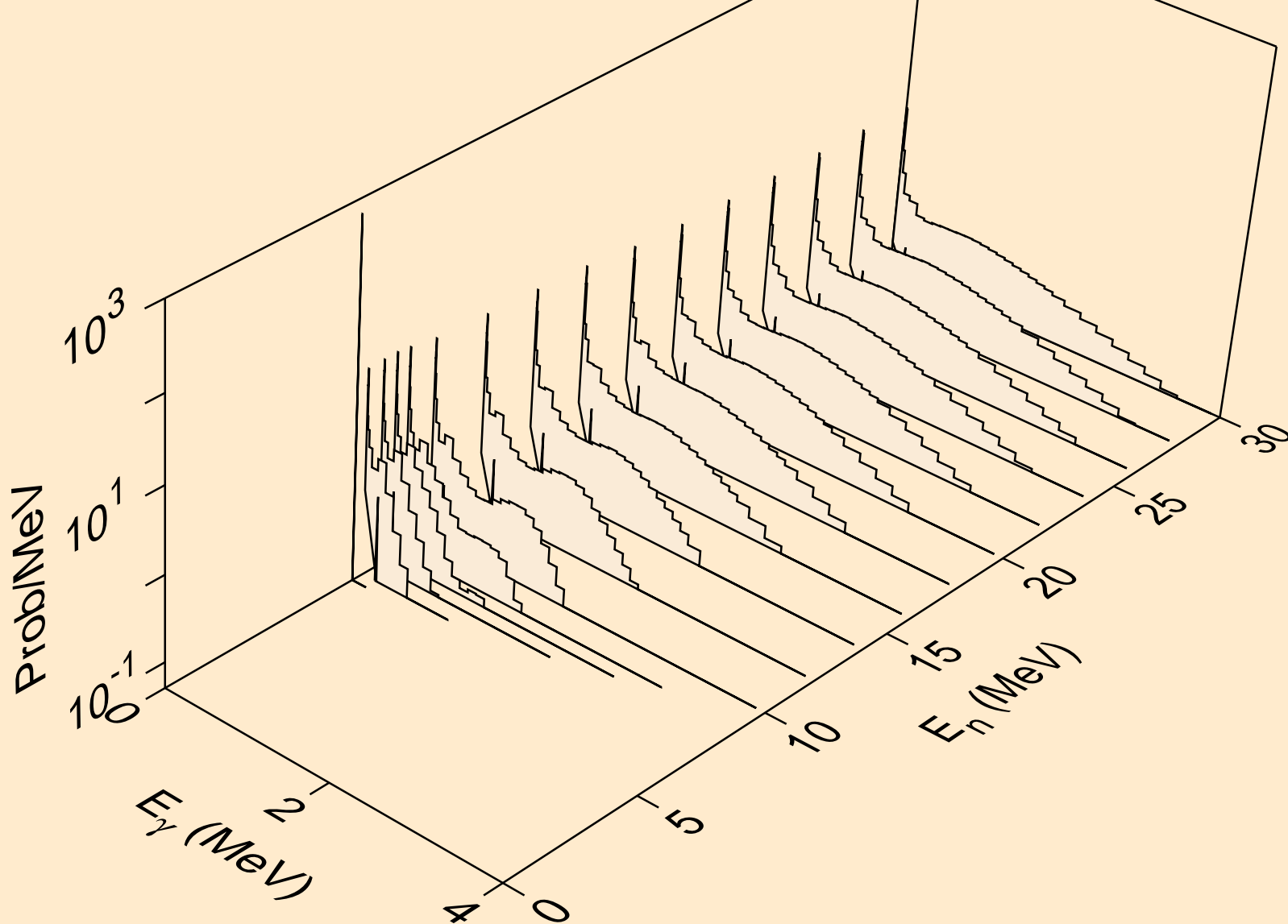
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,p)



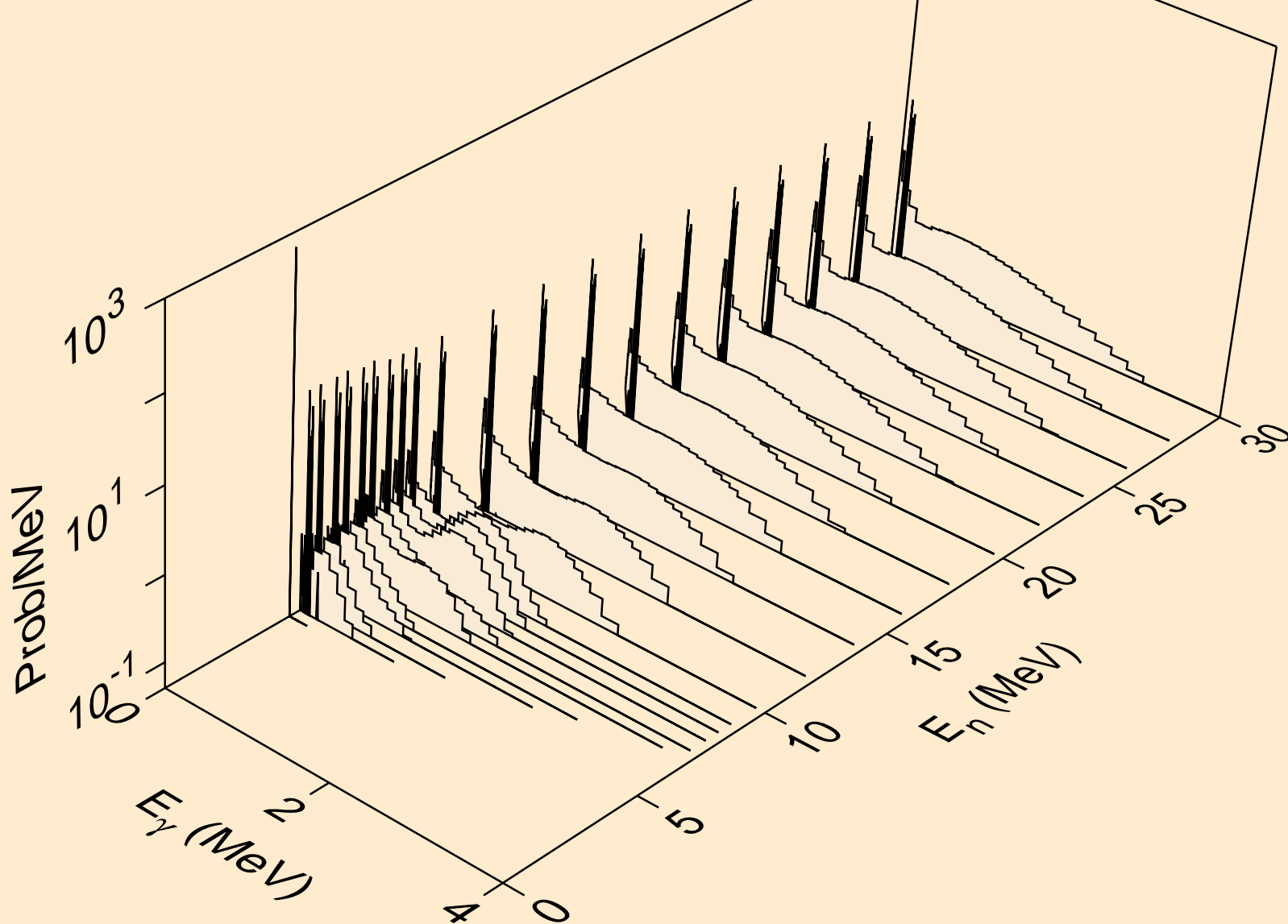
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,d)



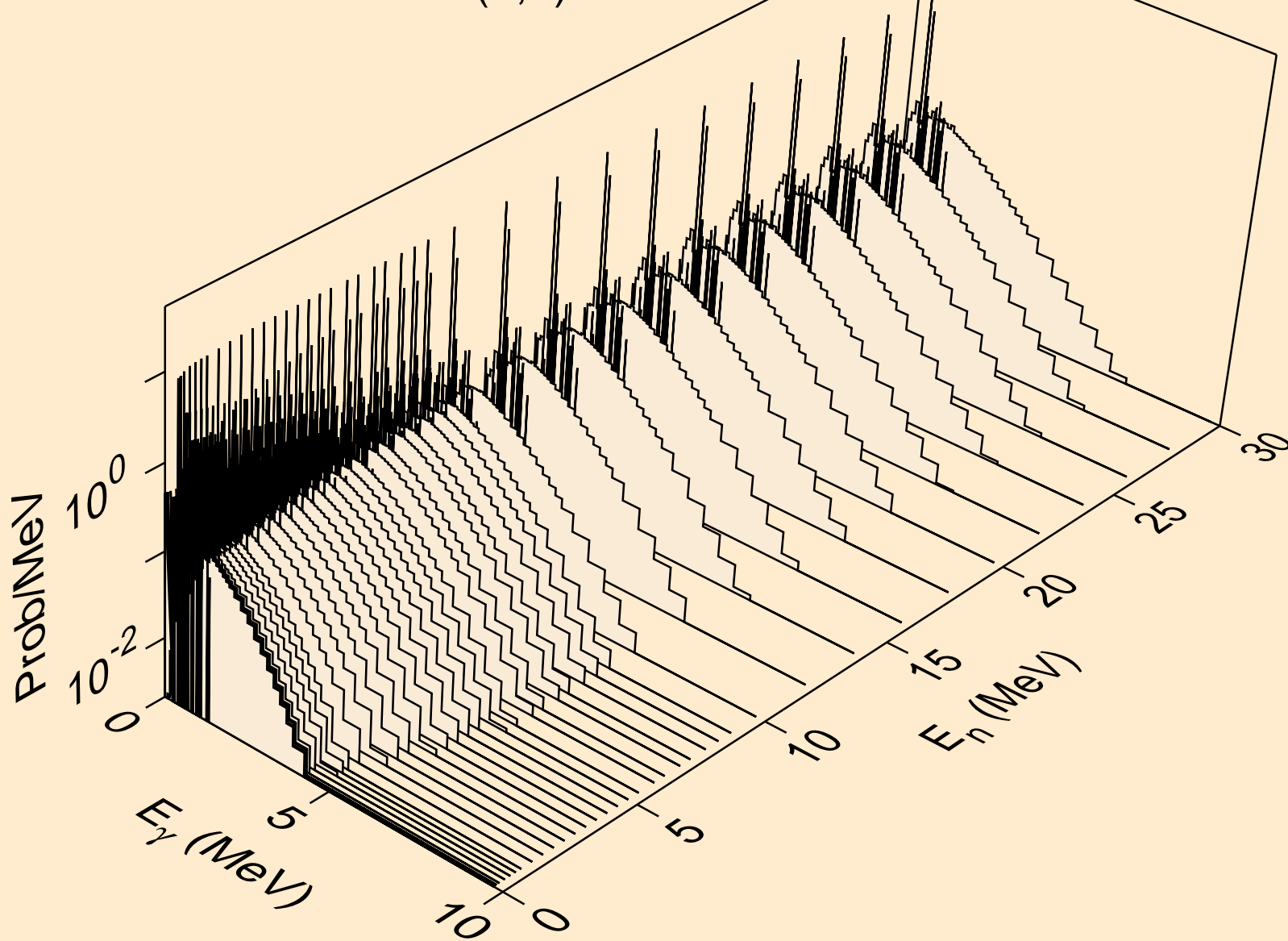
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,t)



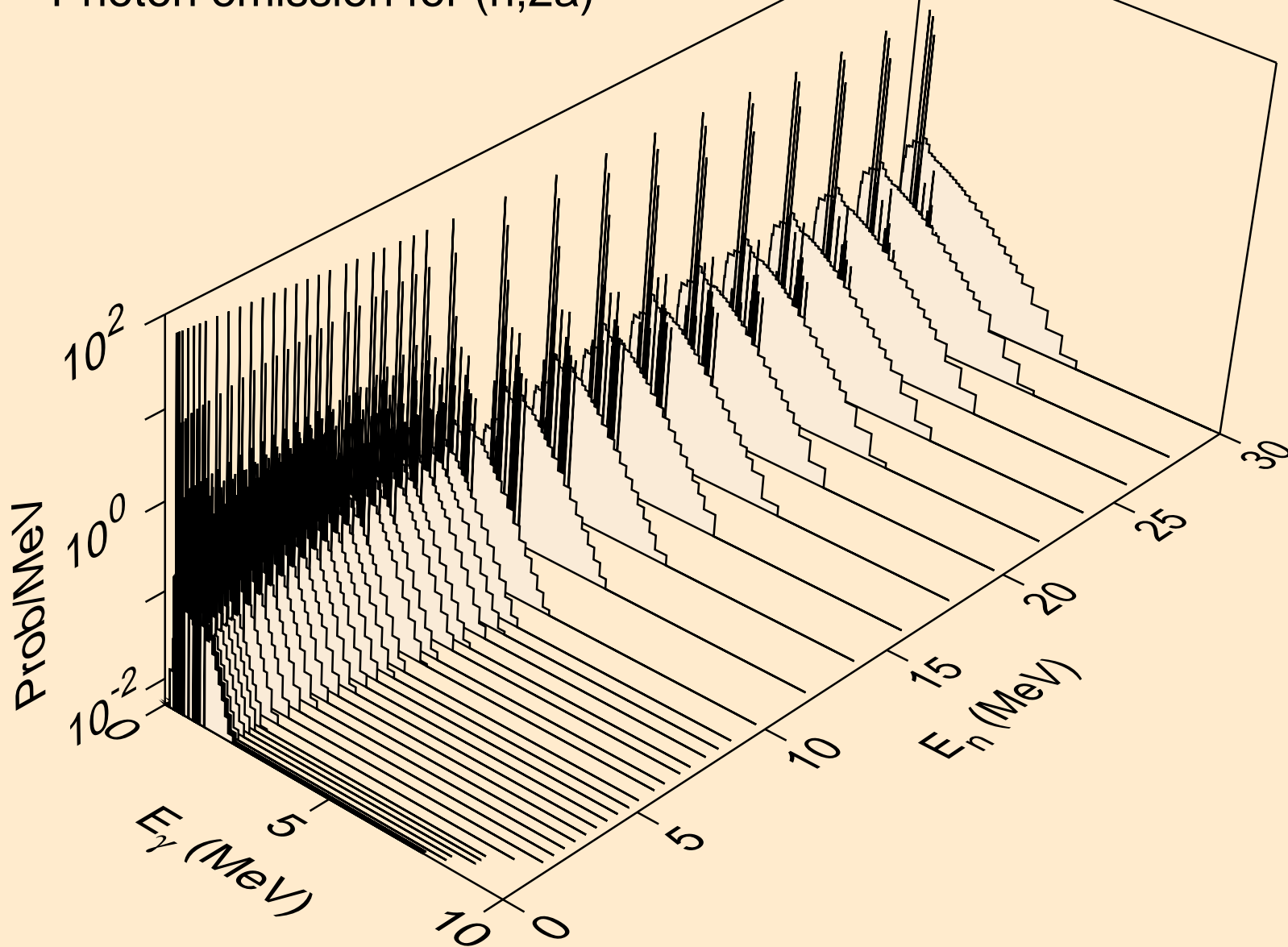
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,he3)



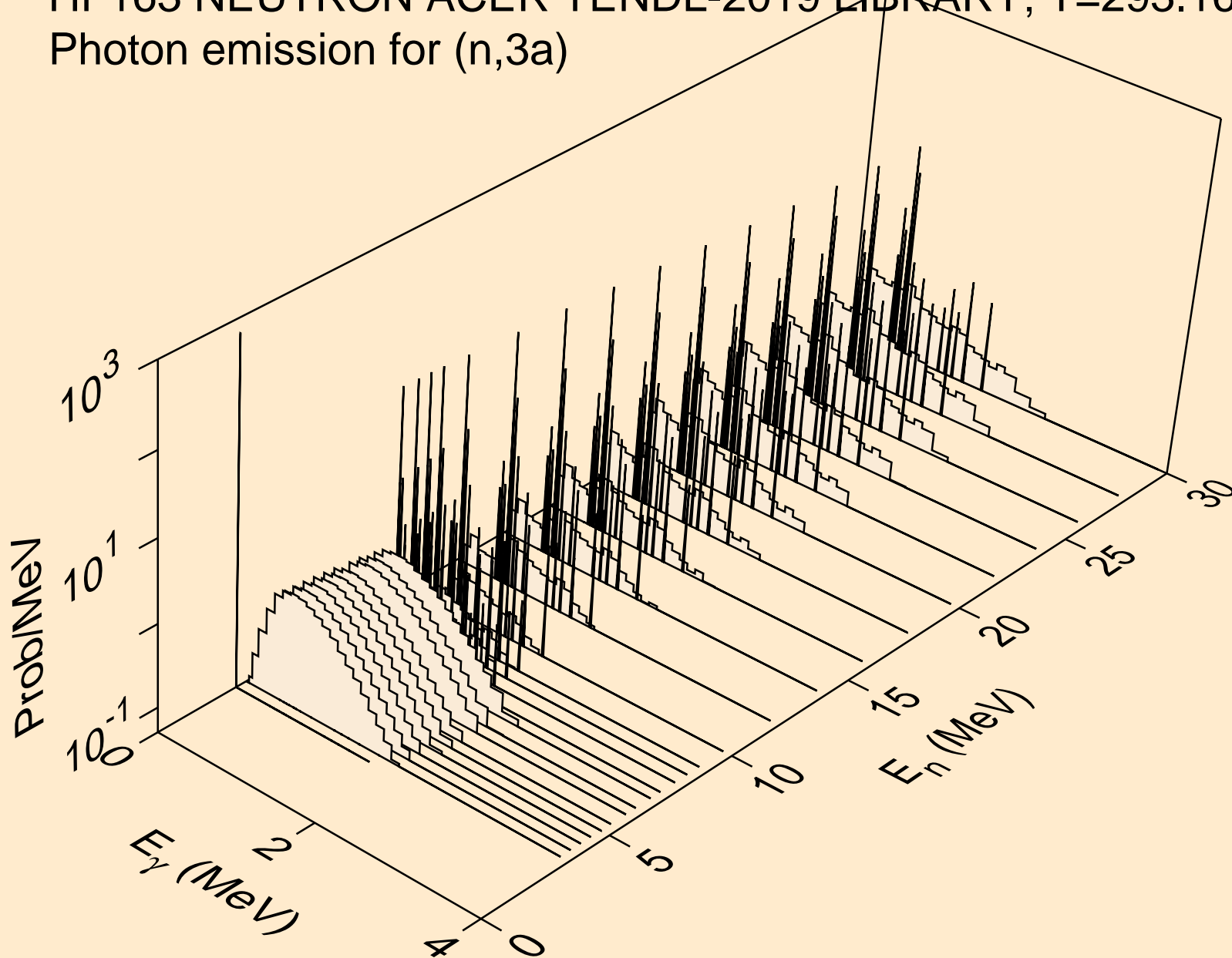
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,a)



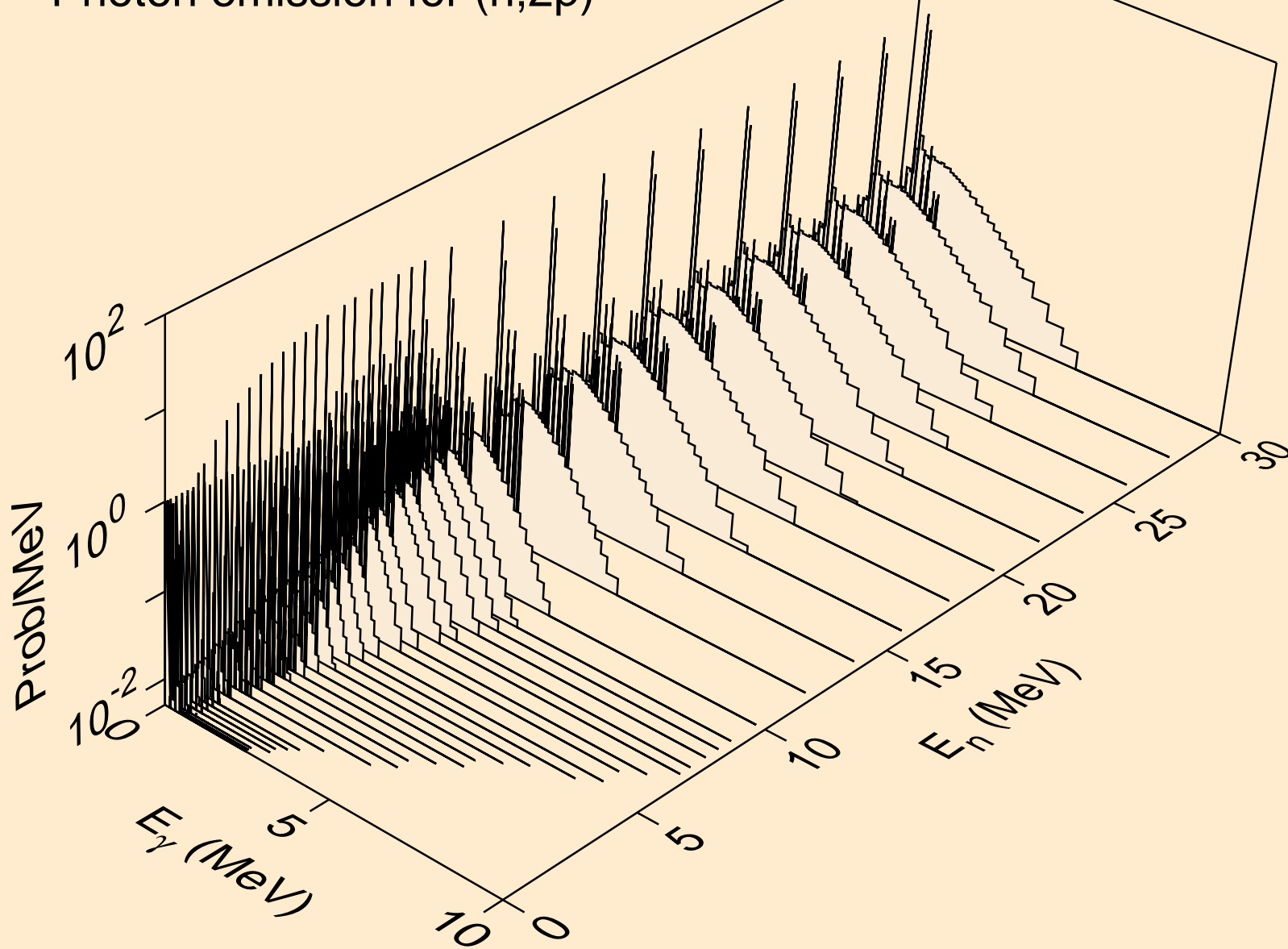
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,2a)



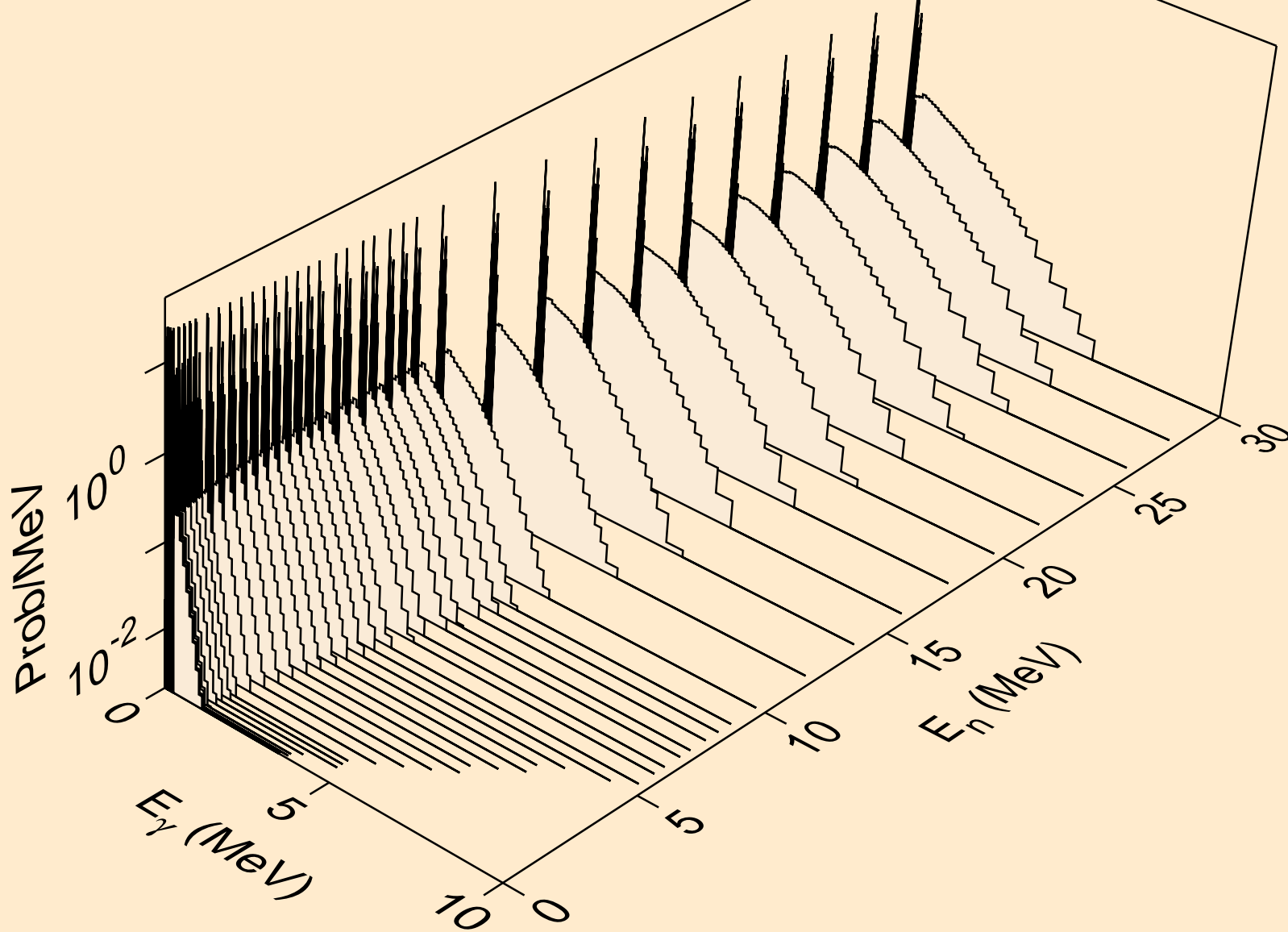
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,3a)



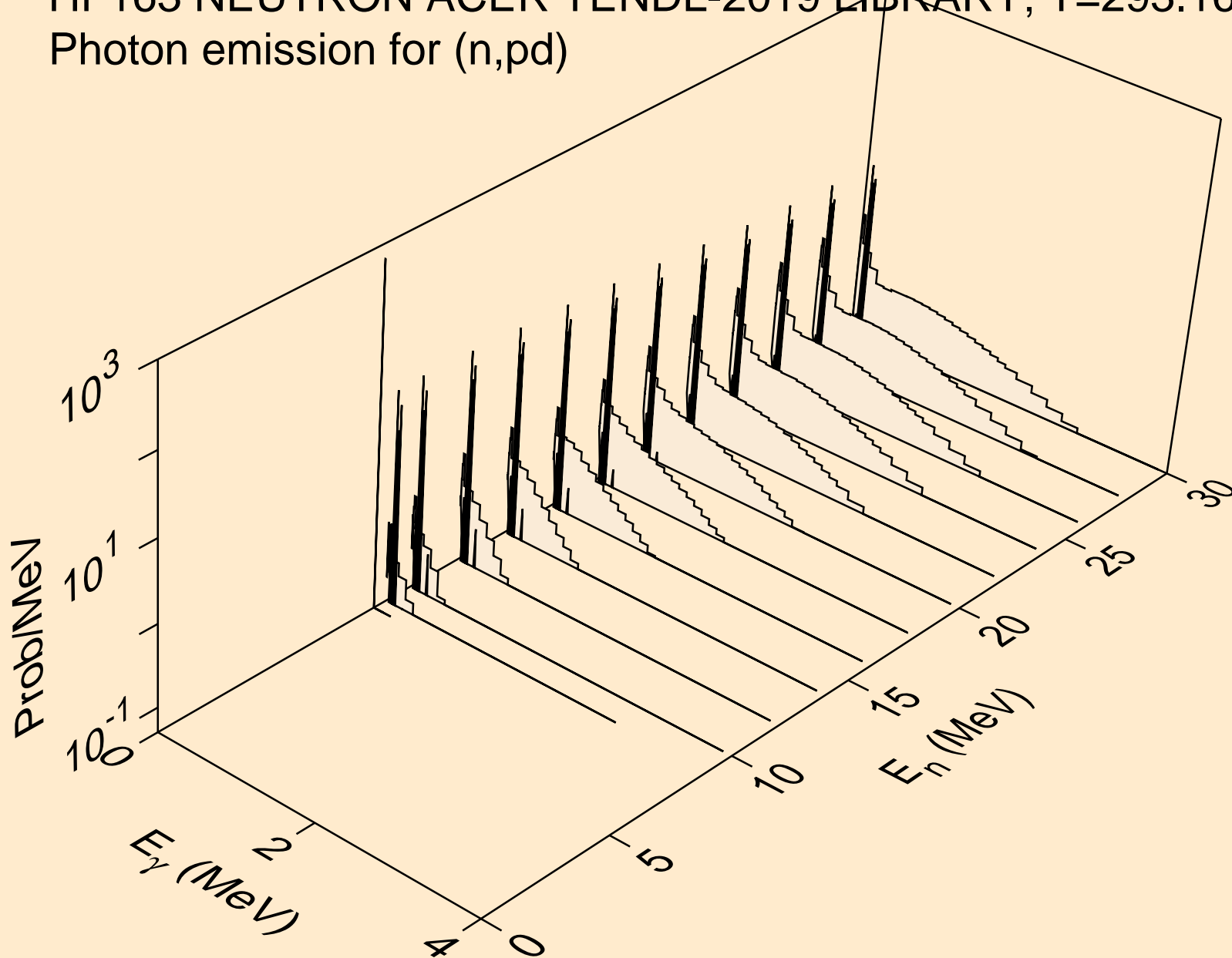
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,2p)



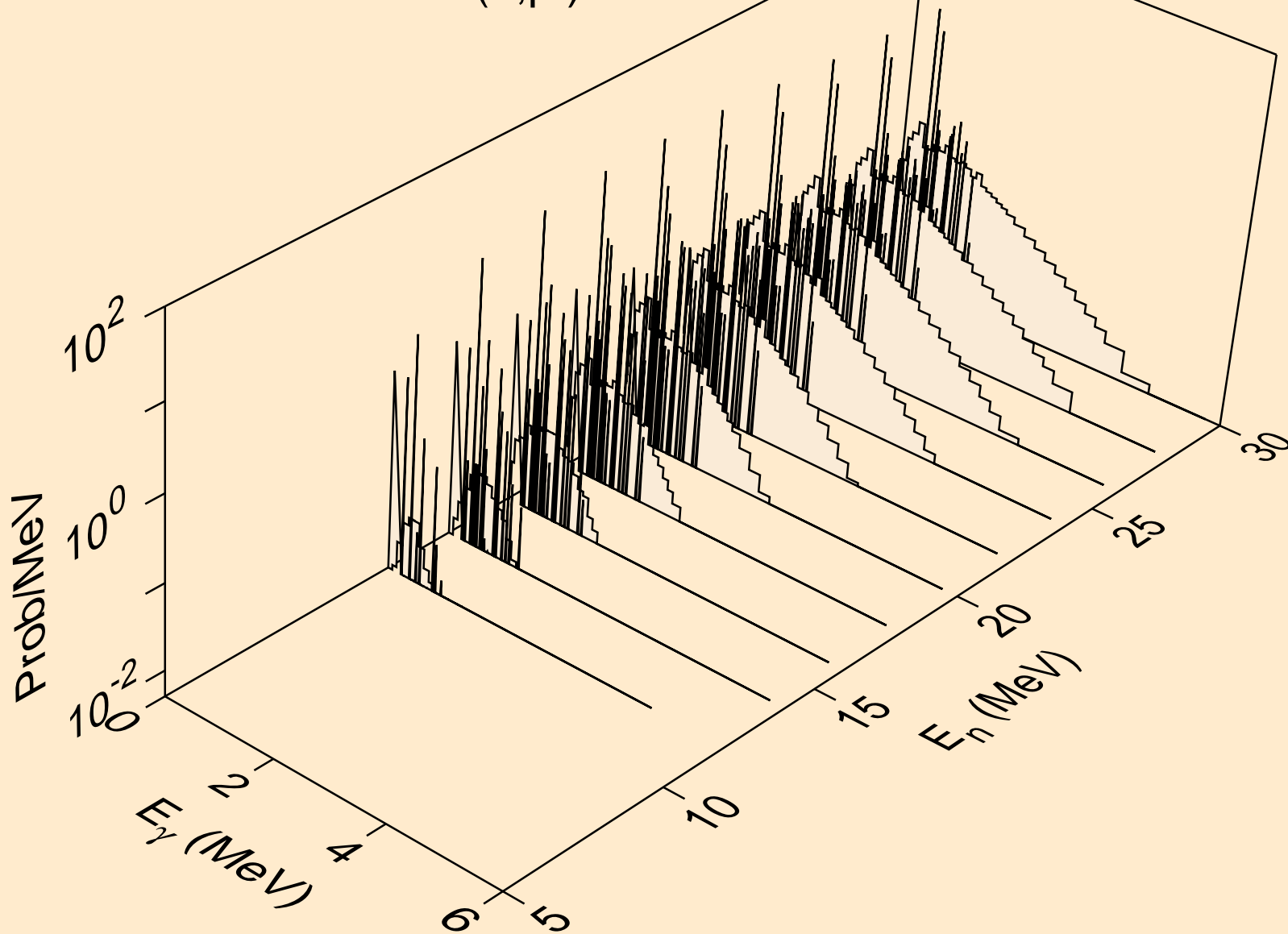
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,p α)



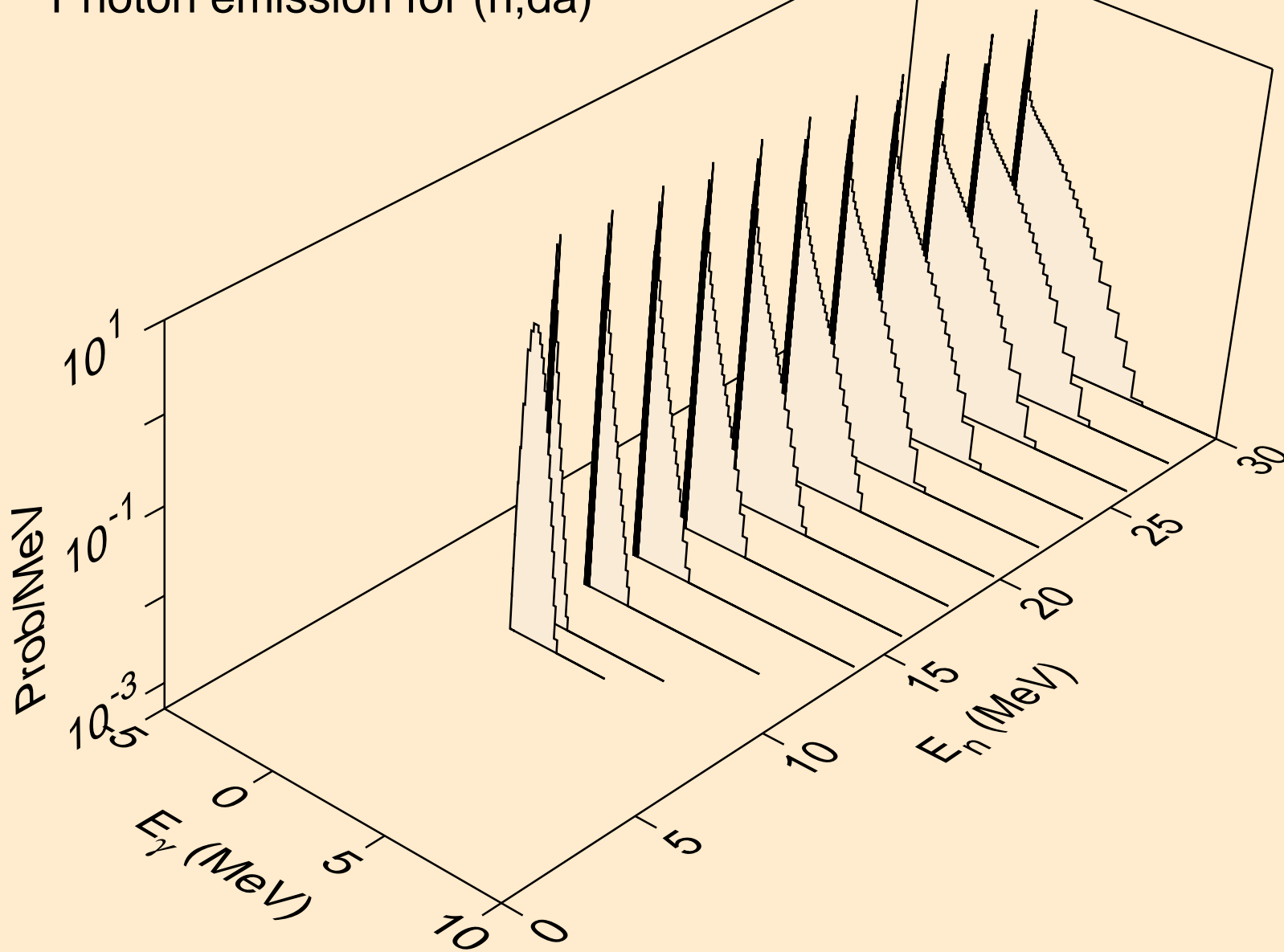
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,pd)



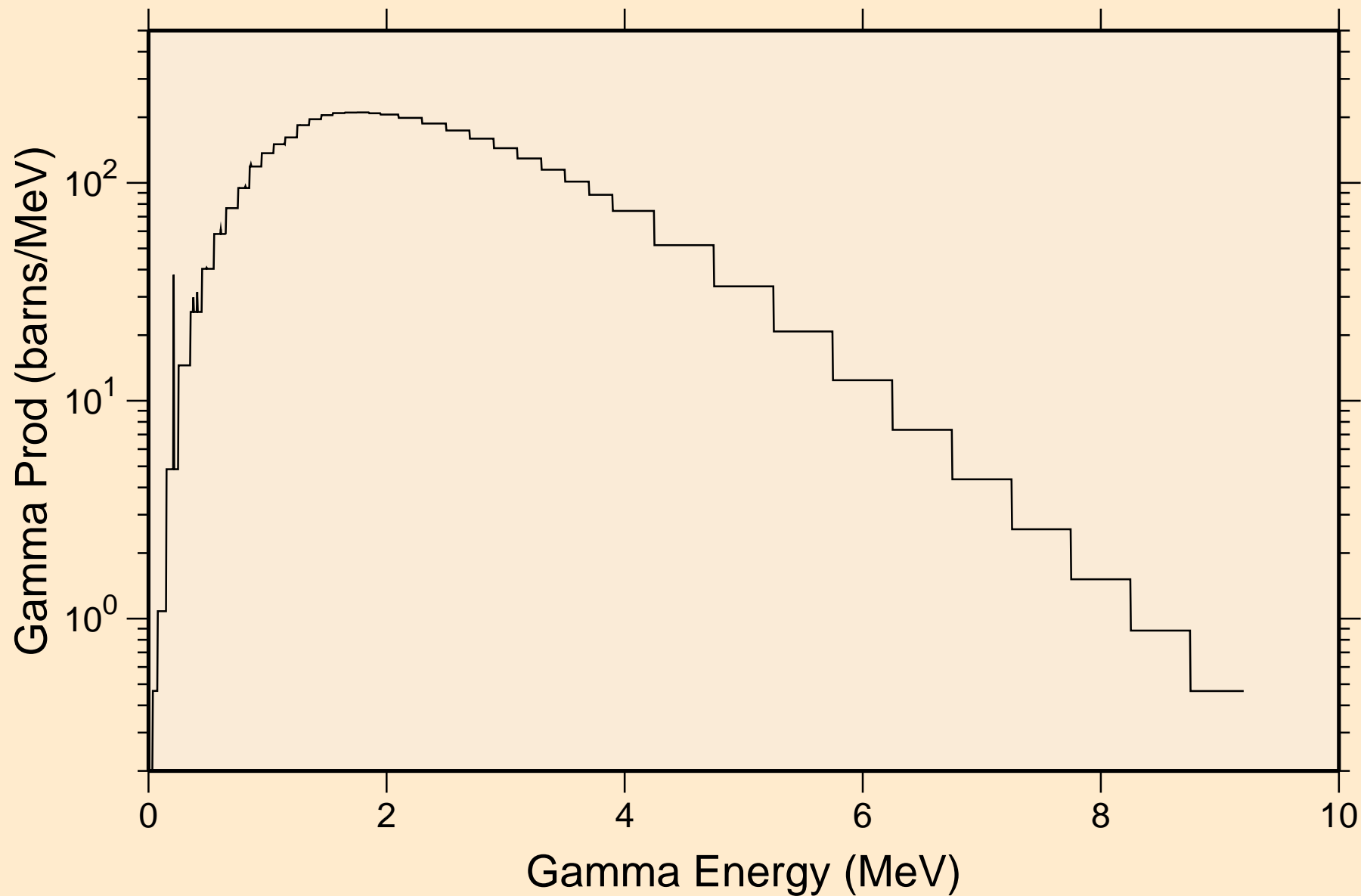
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,pt)



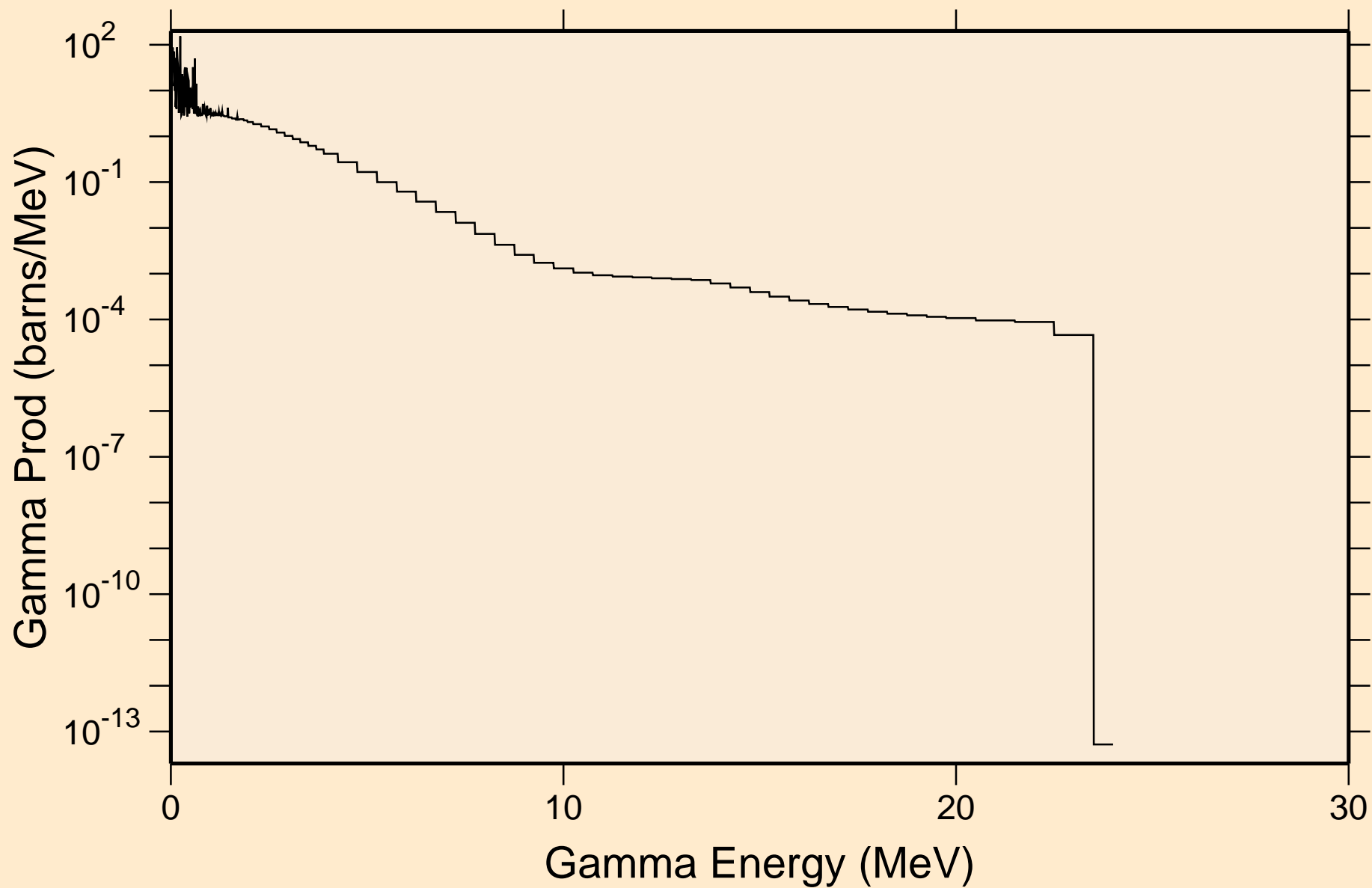
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,da)



HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
thermal capture photon spectrum

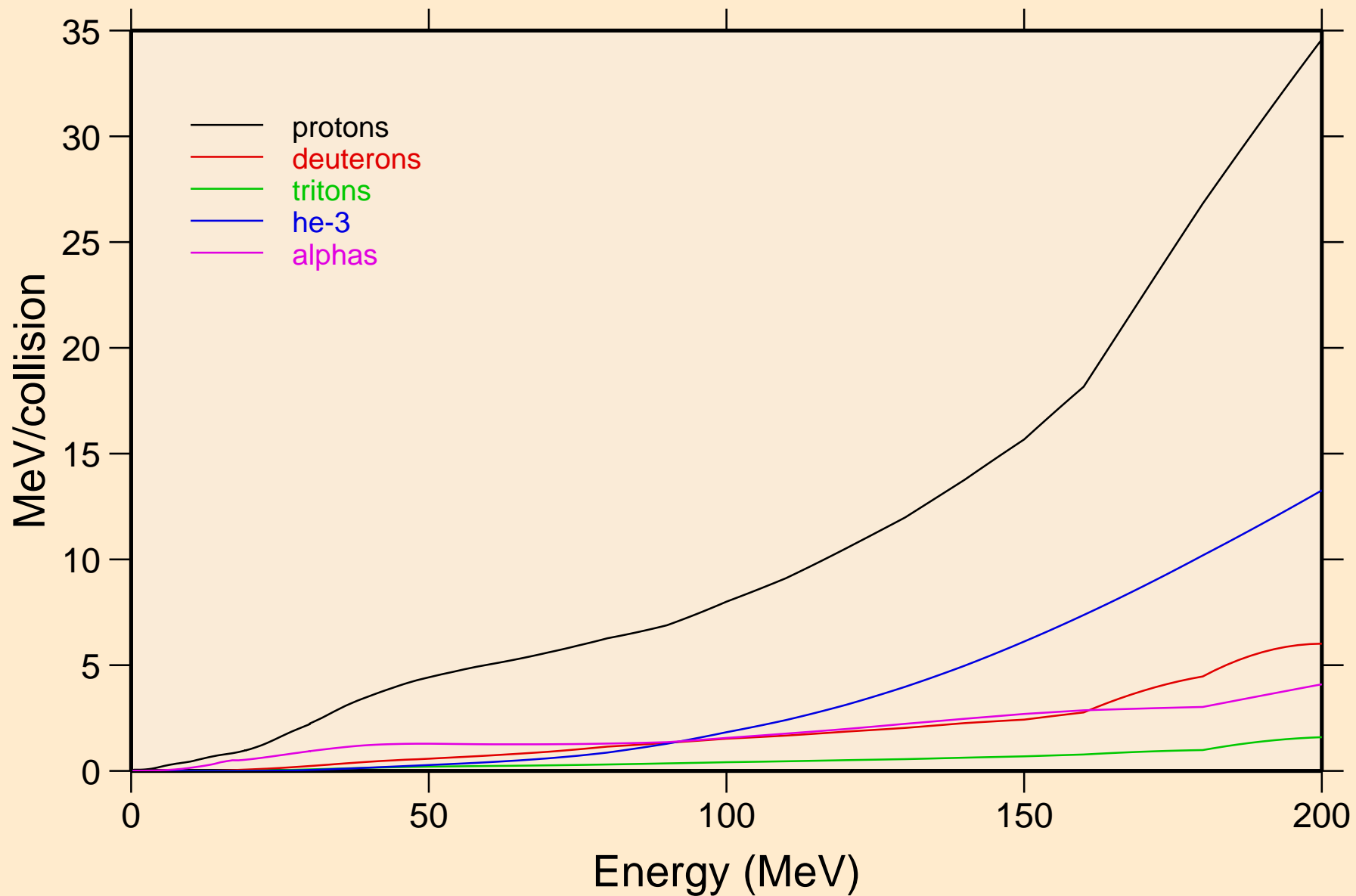


HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
14 MeV photon spectrum



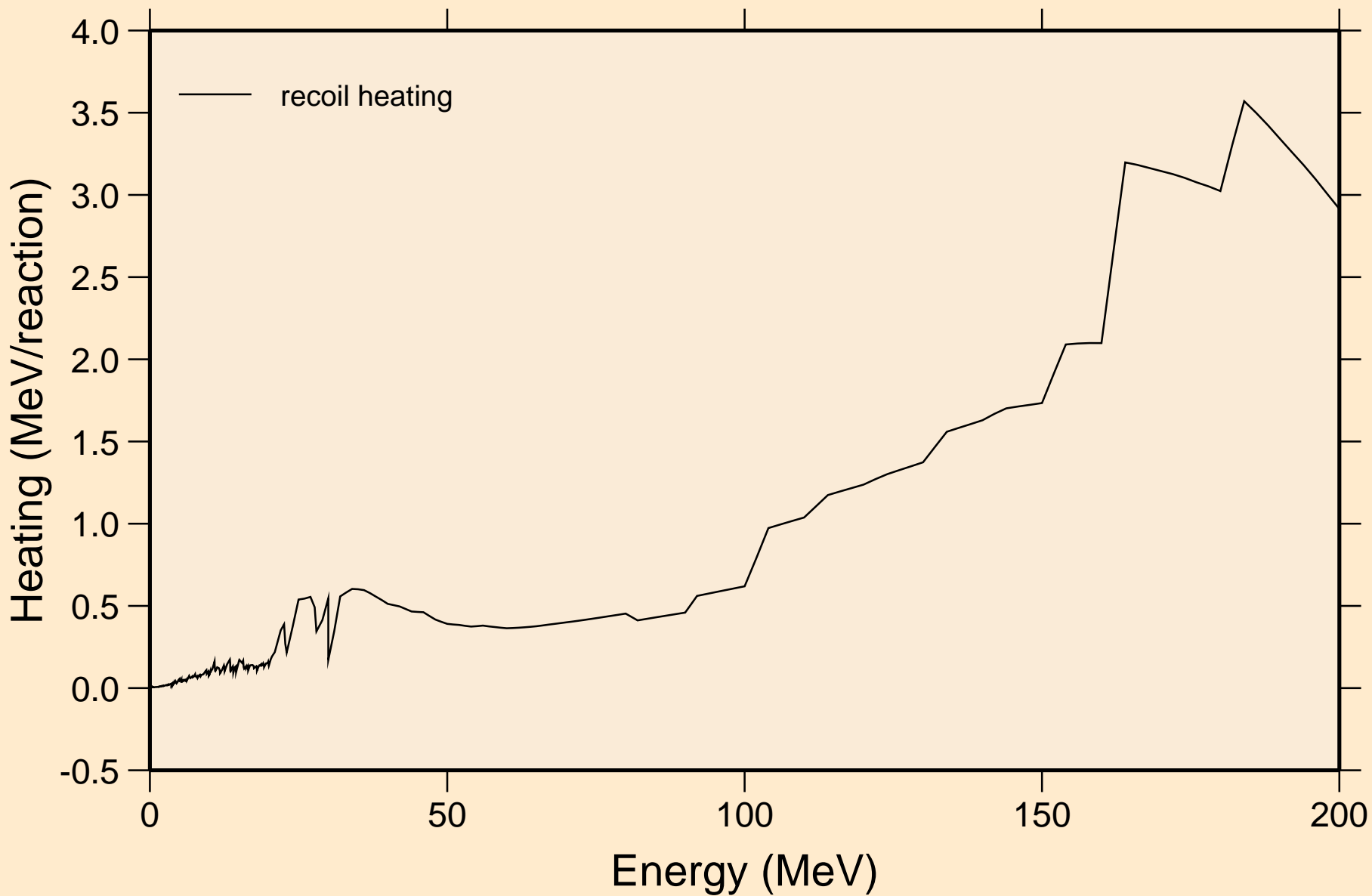
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

Particle heating contributions



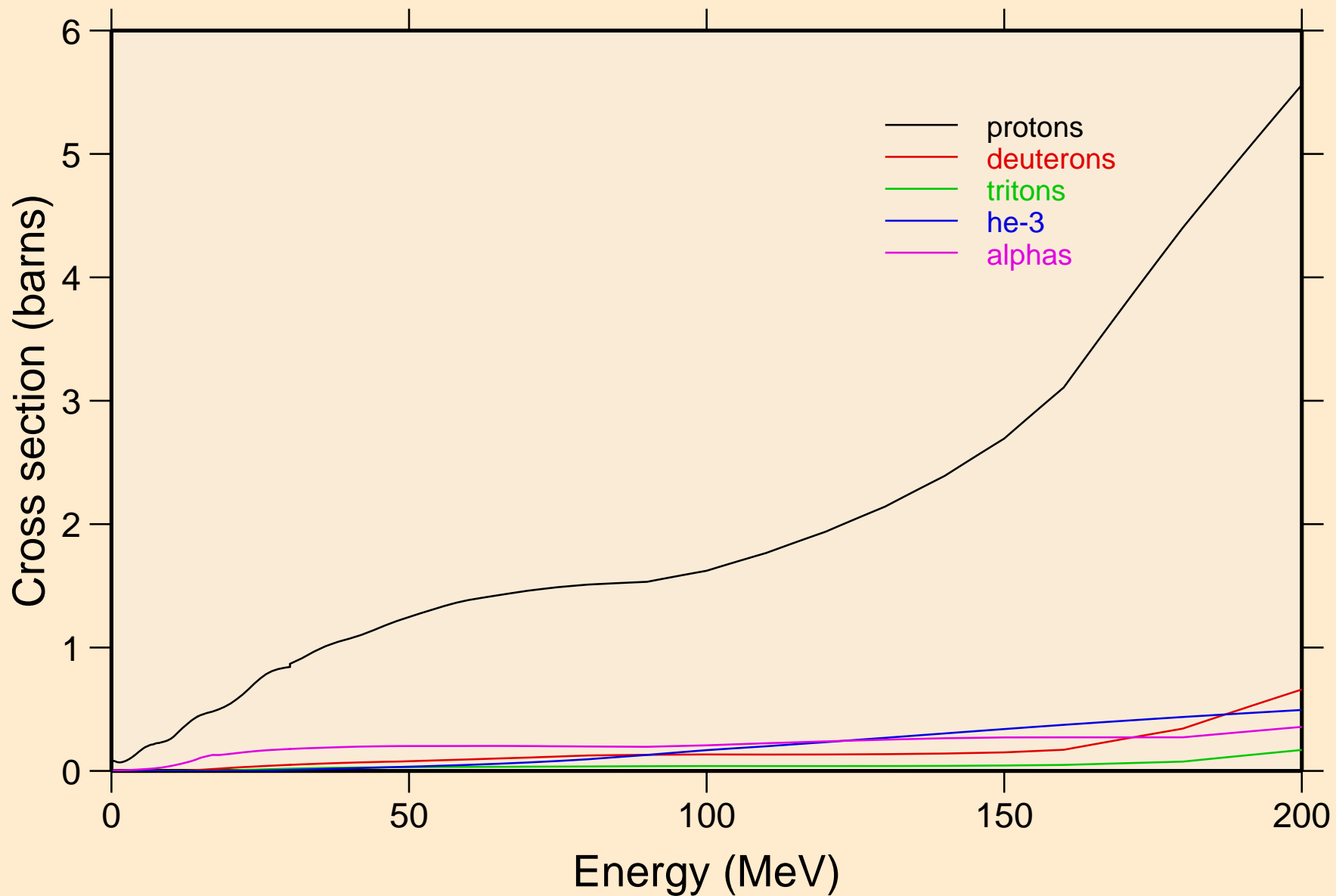
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

Recoil Heating

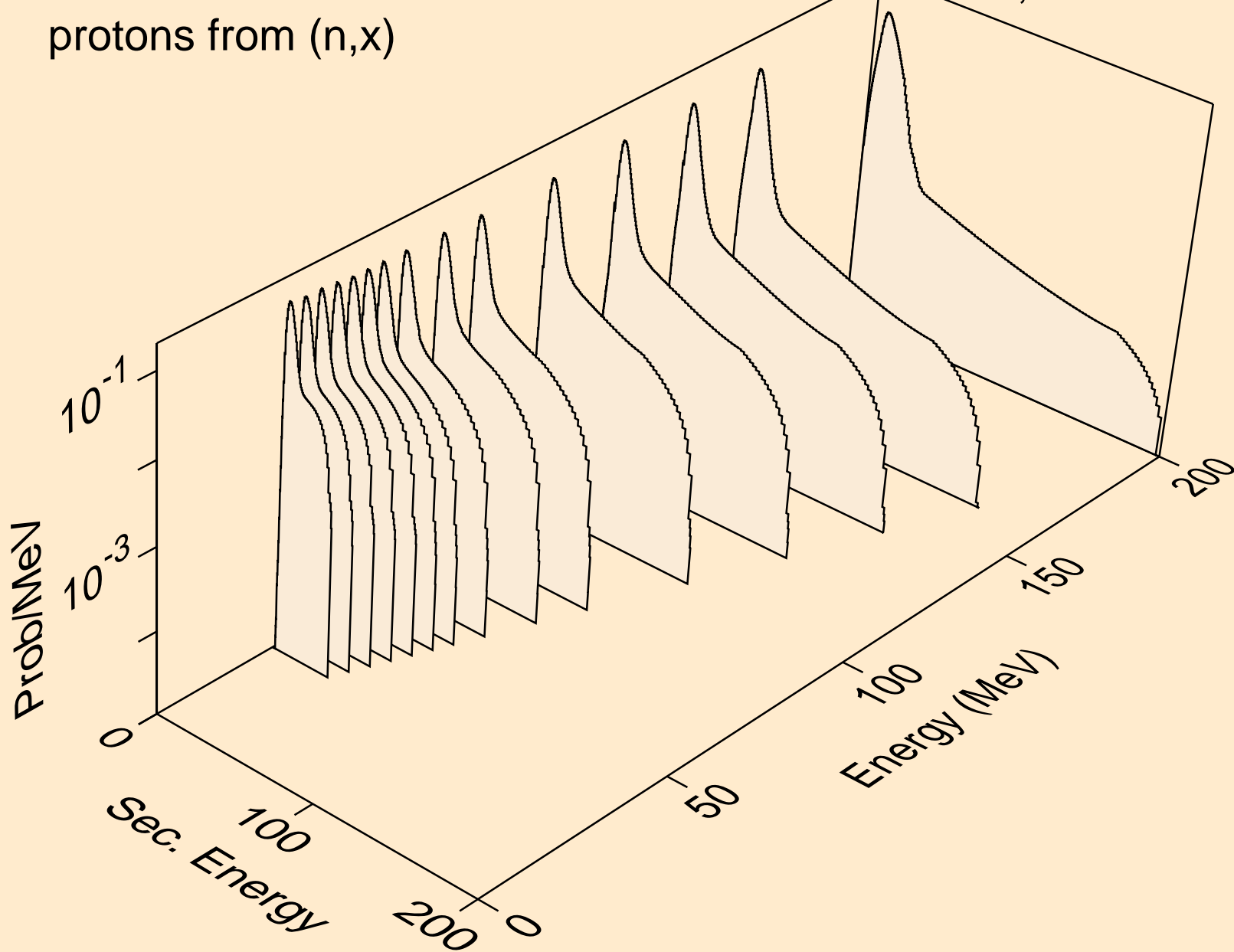


HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

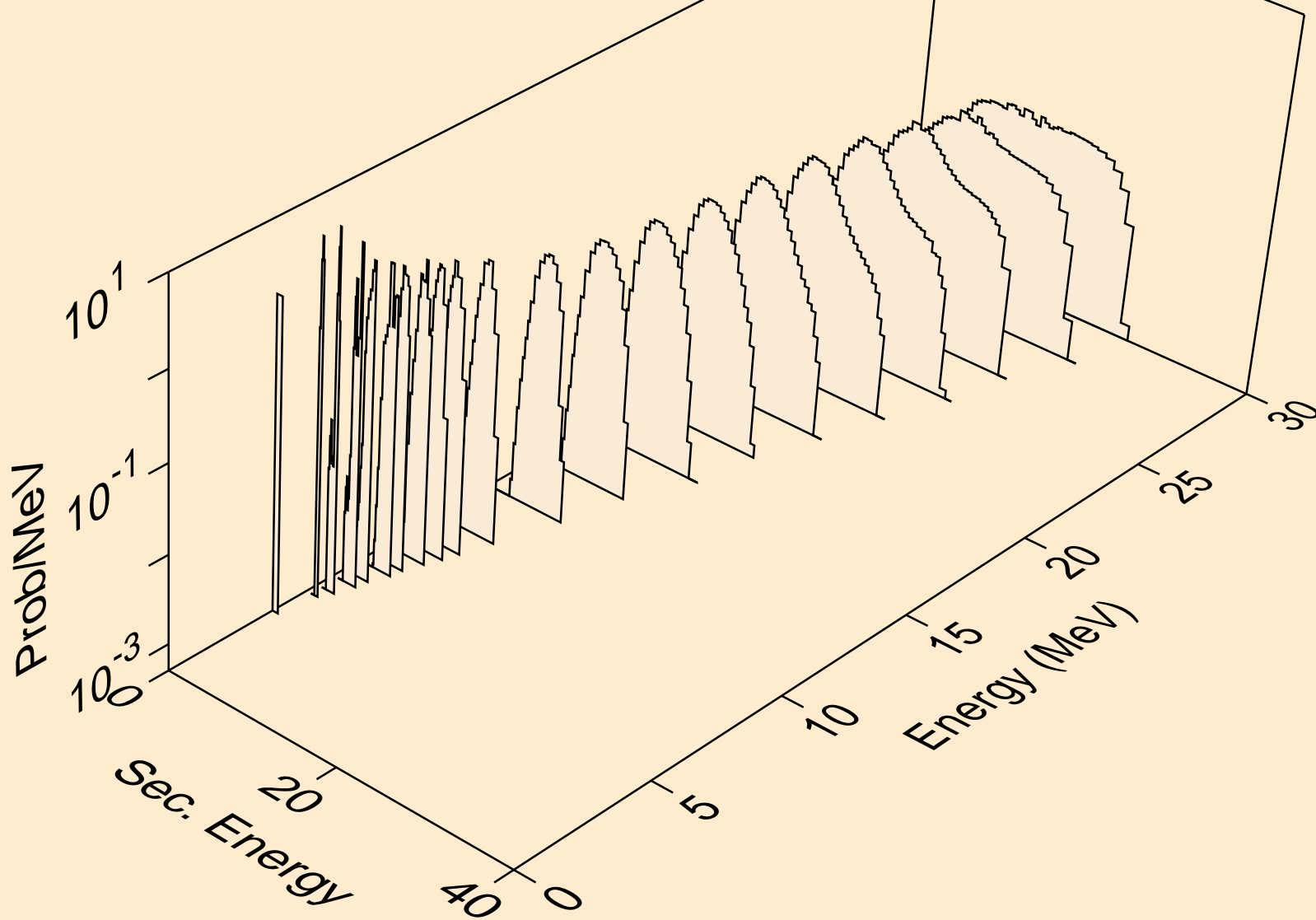
Particle production cross sections



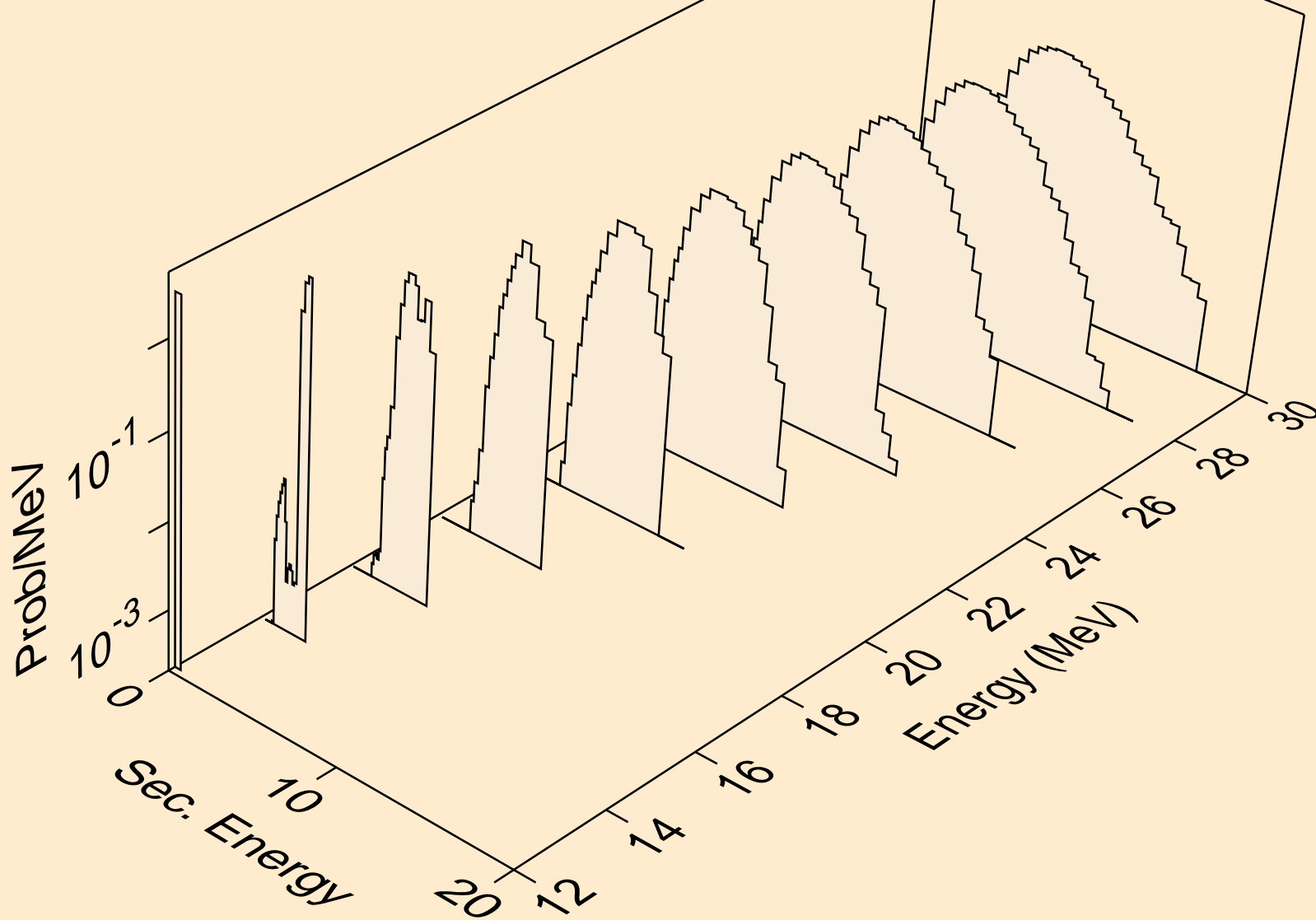
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,x)



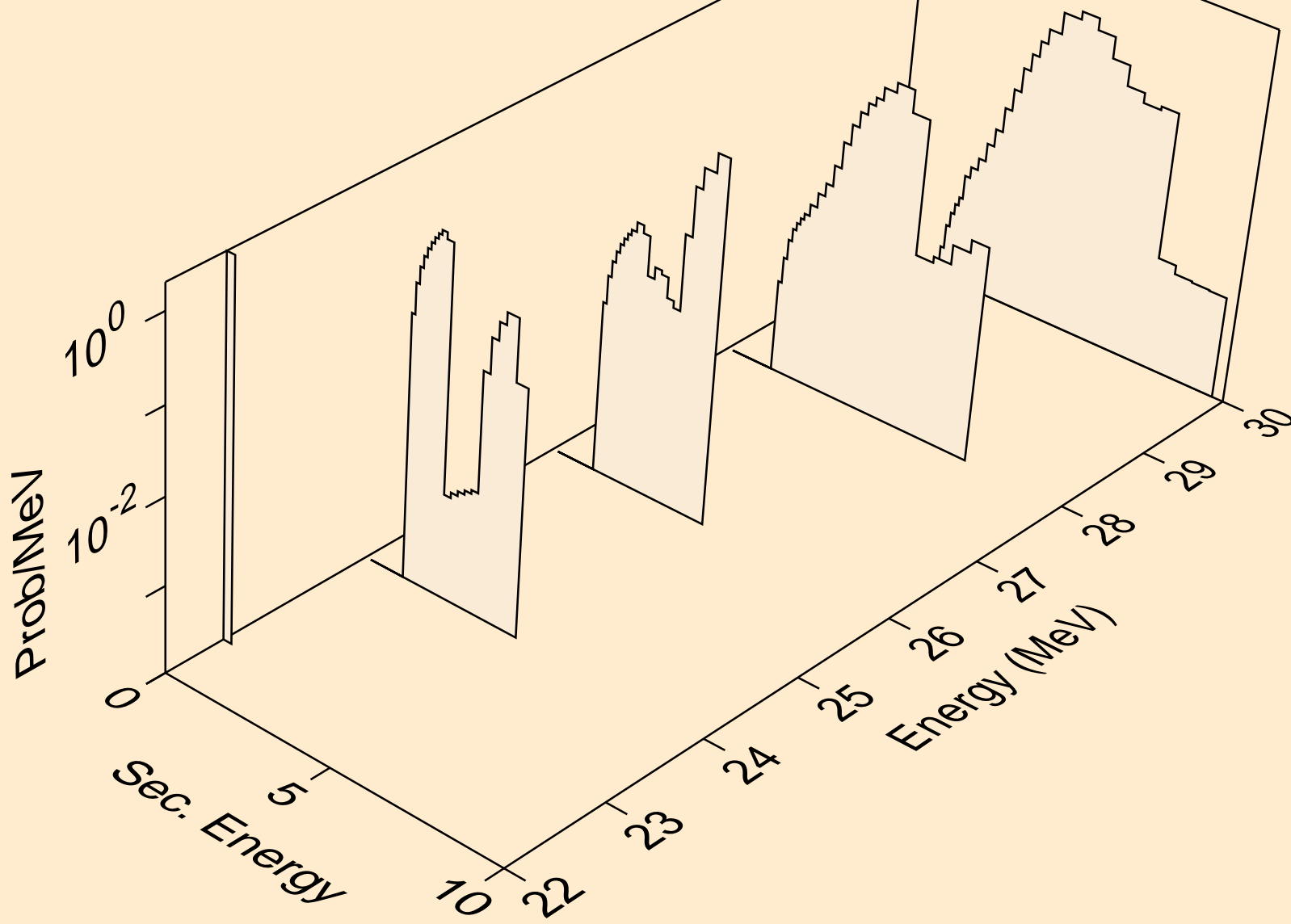
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,n*)p



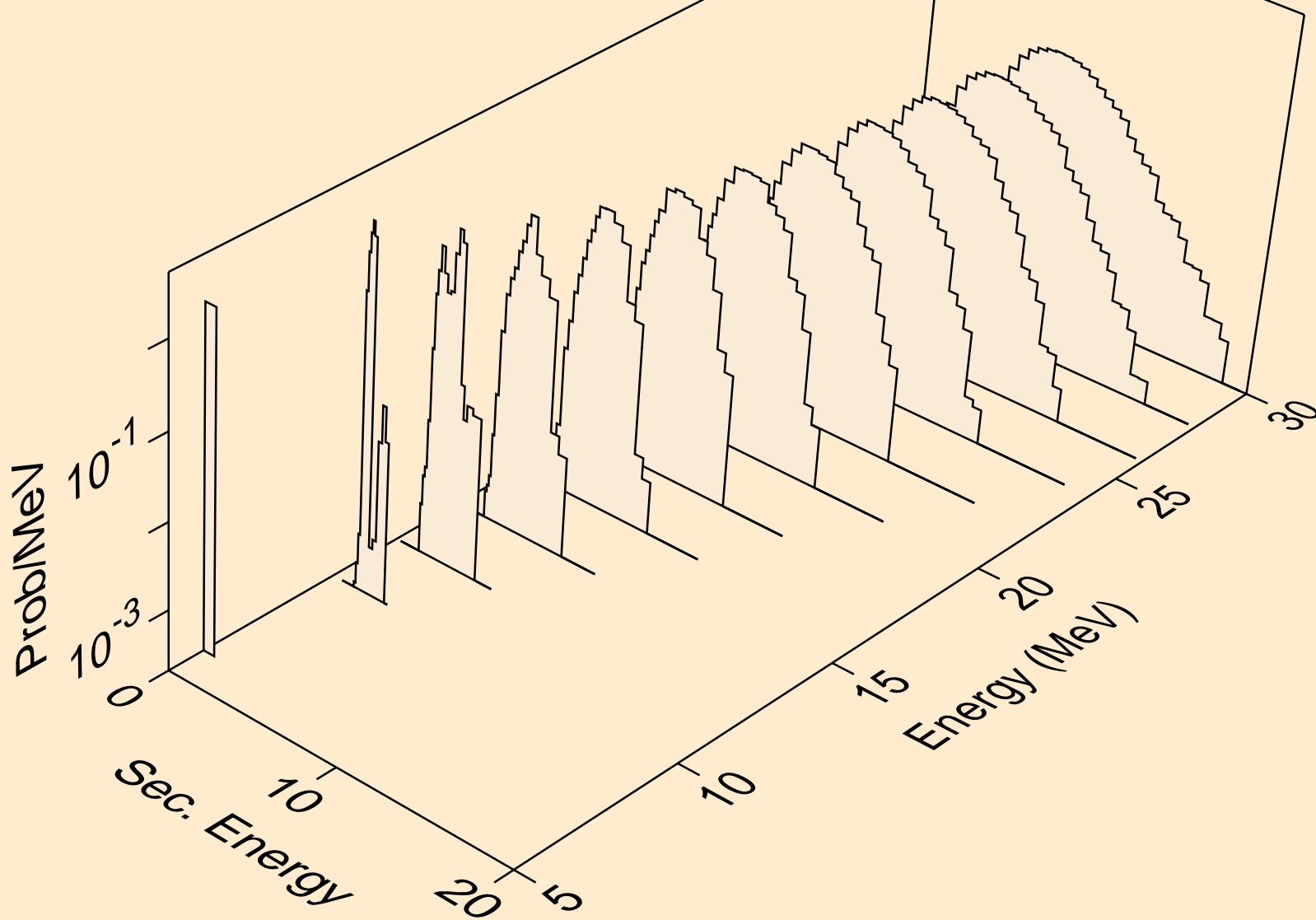
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,2np)



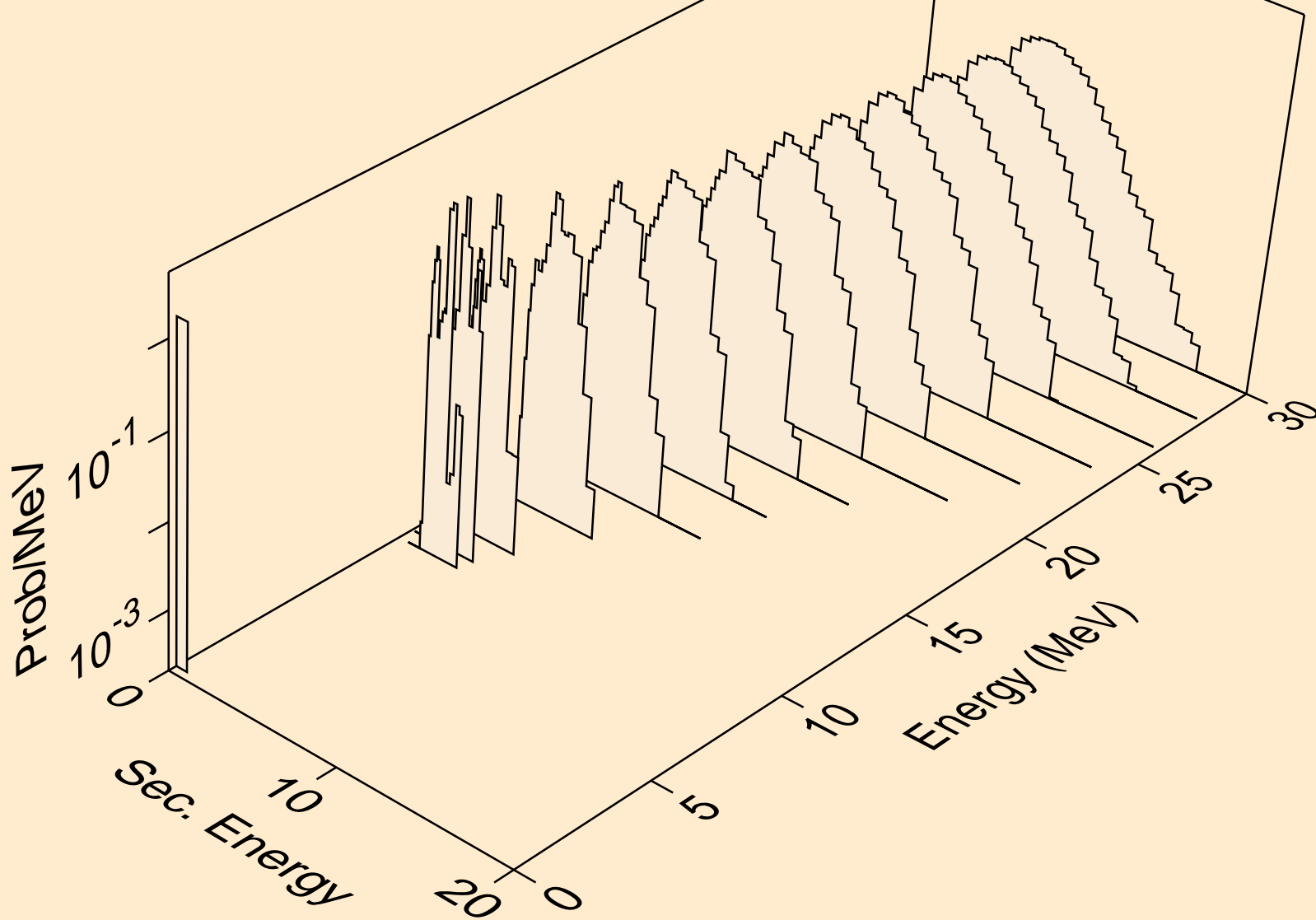
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,3np)



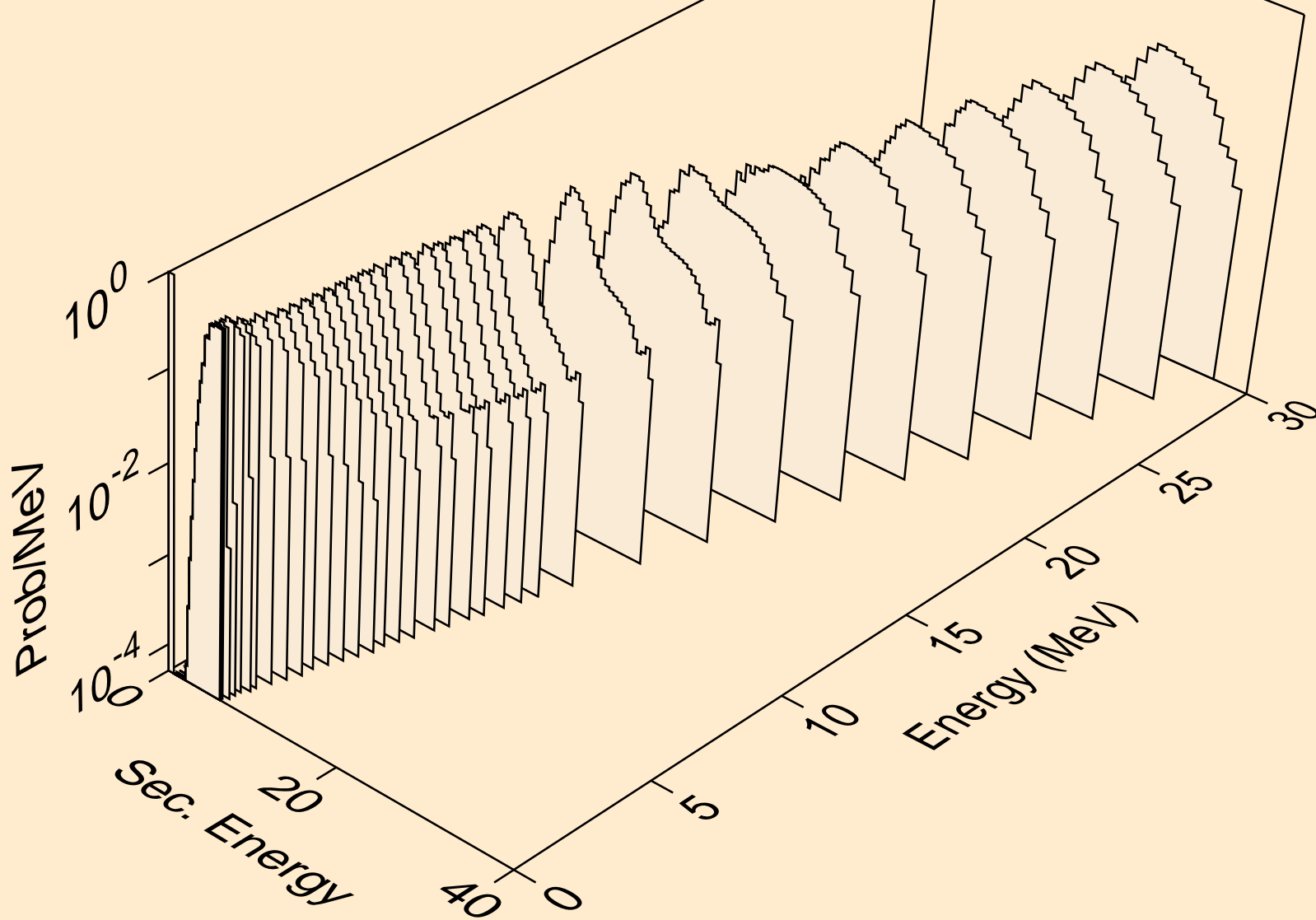
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,2np)



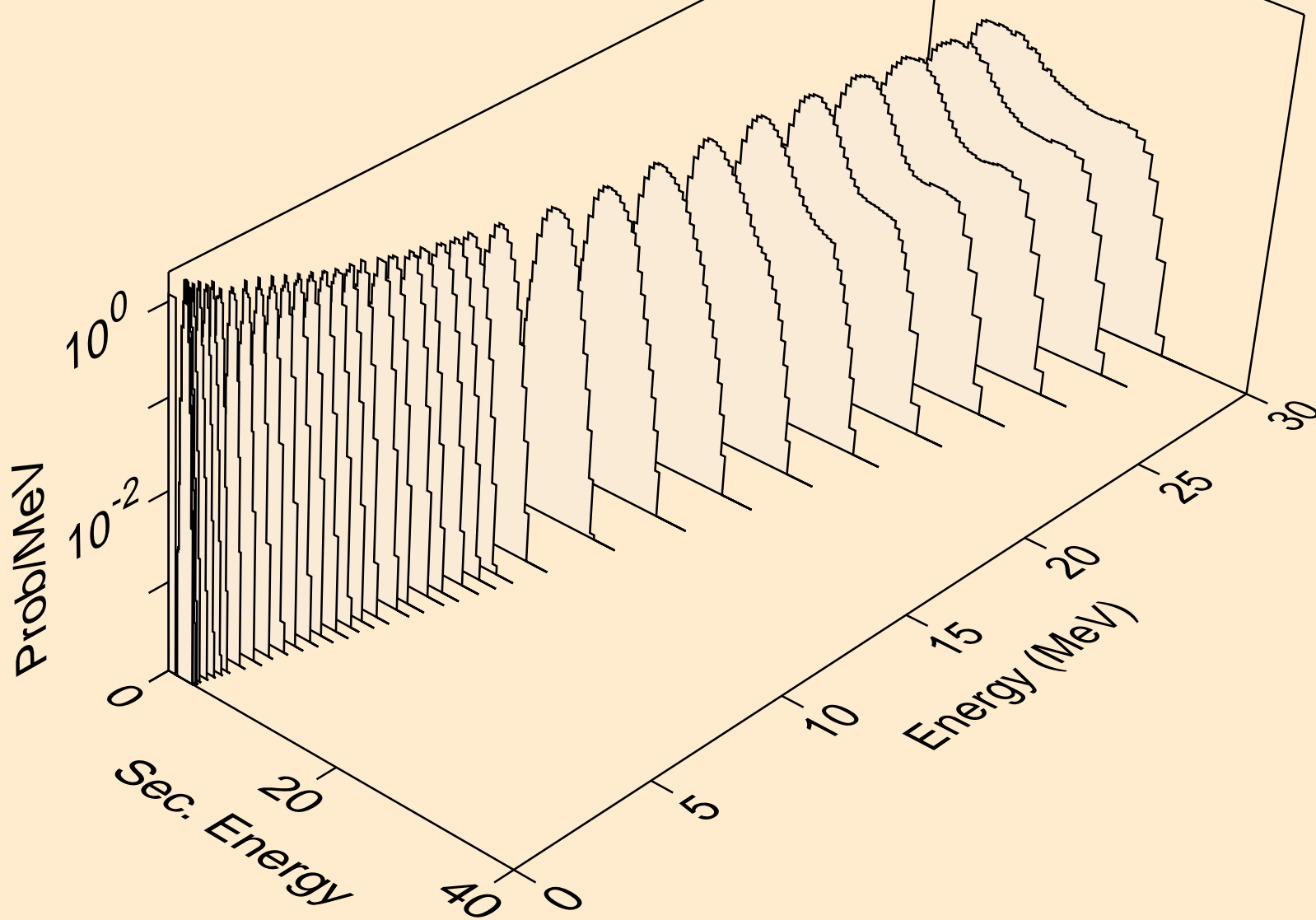
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,npa)



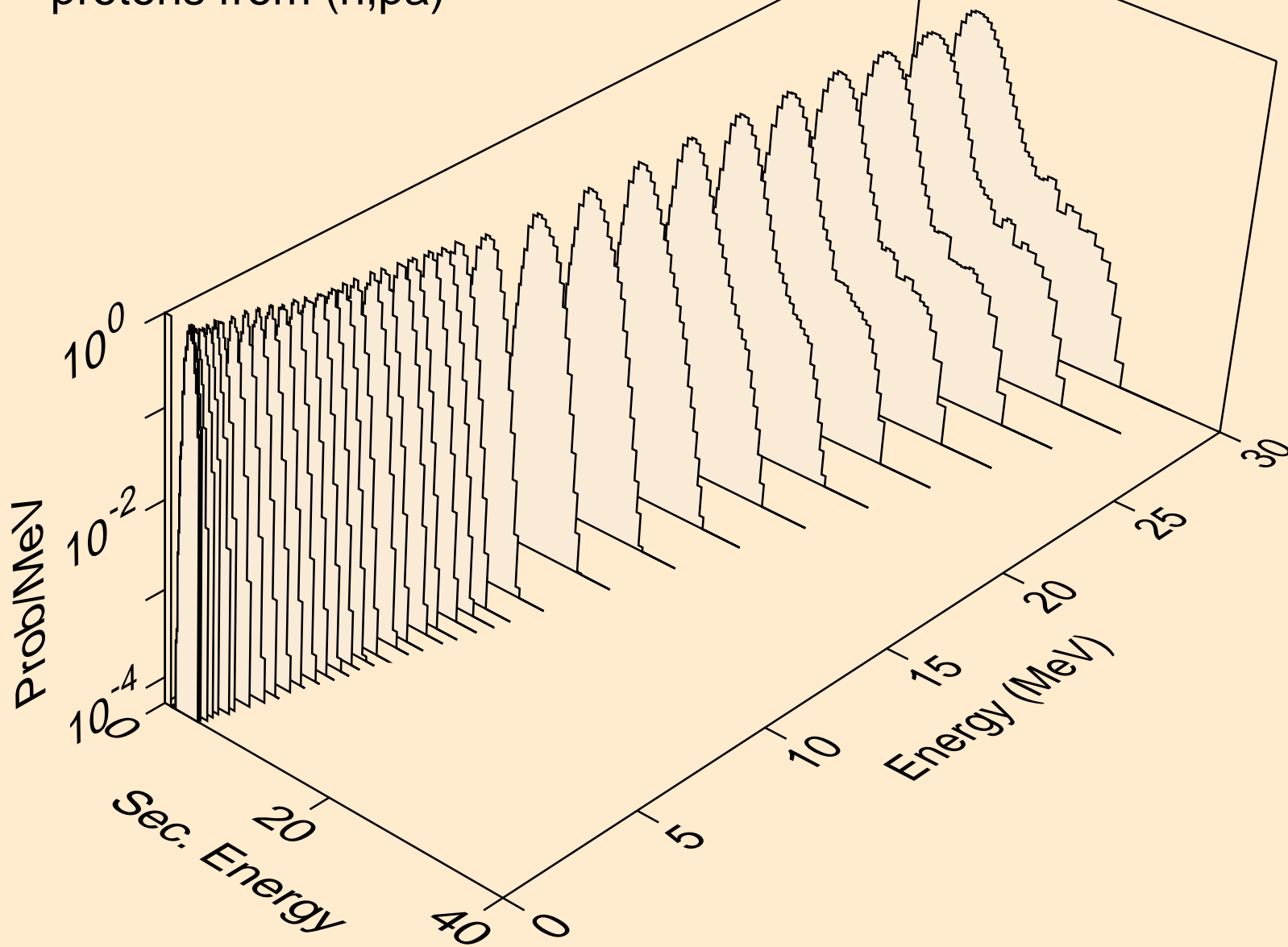
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,p)



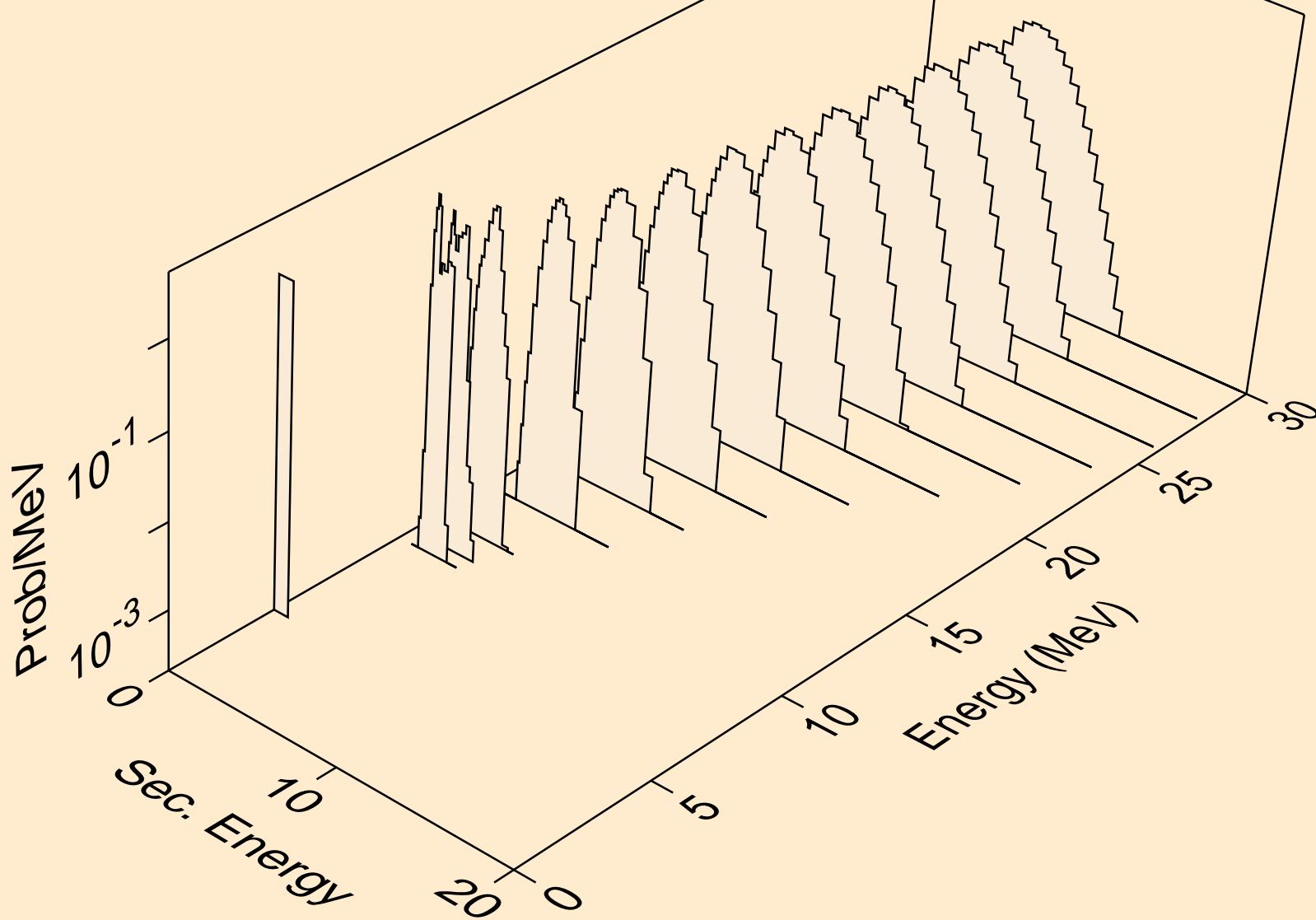
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protons from (n,2p)



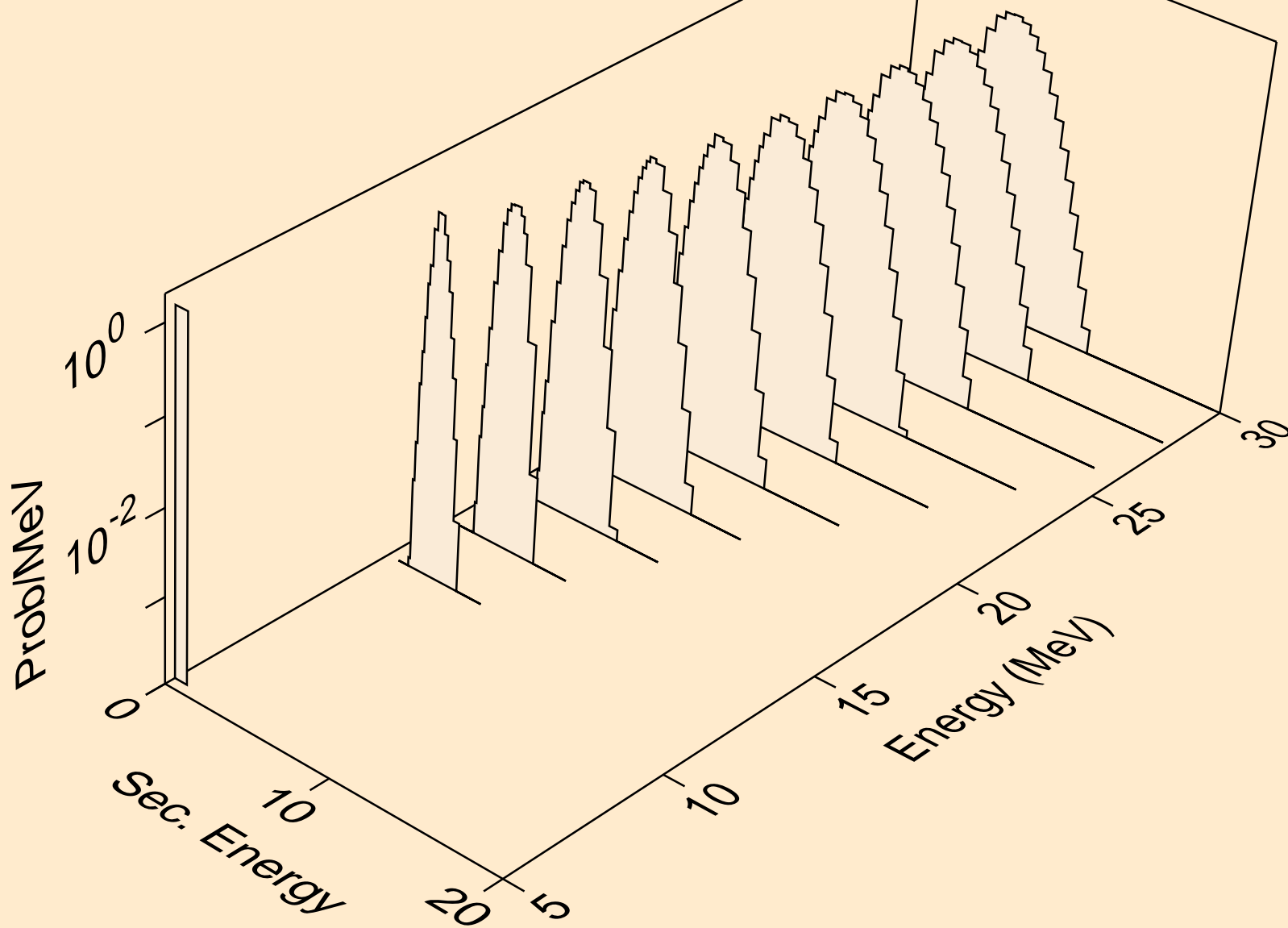
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,p)



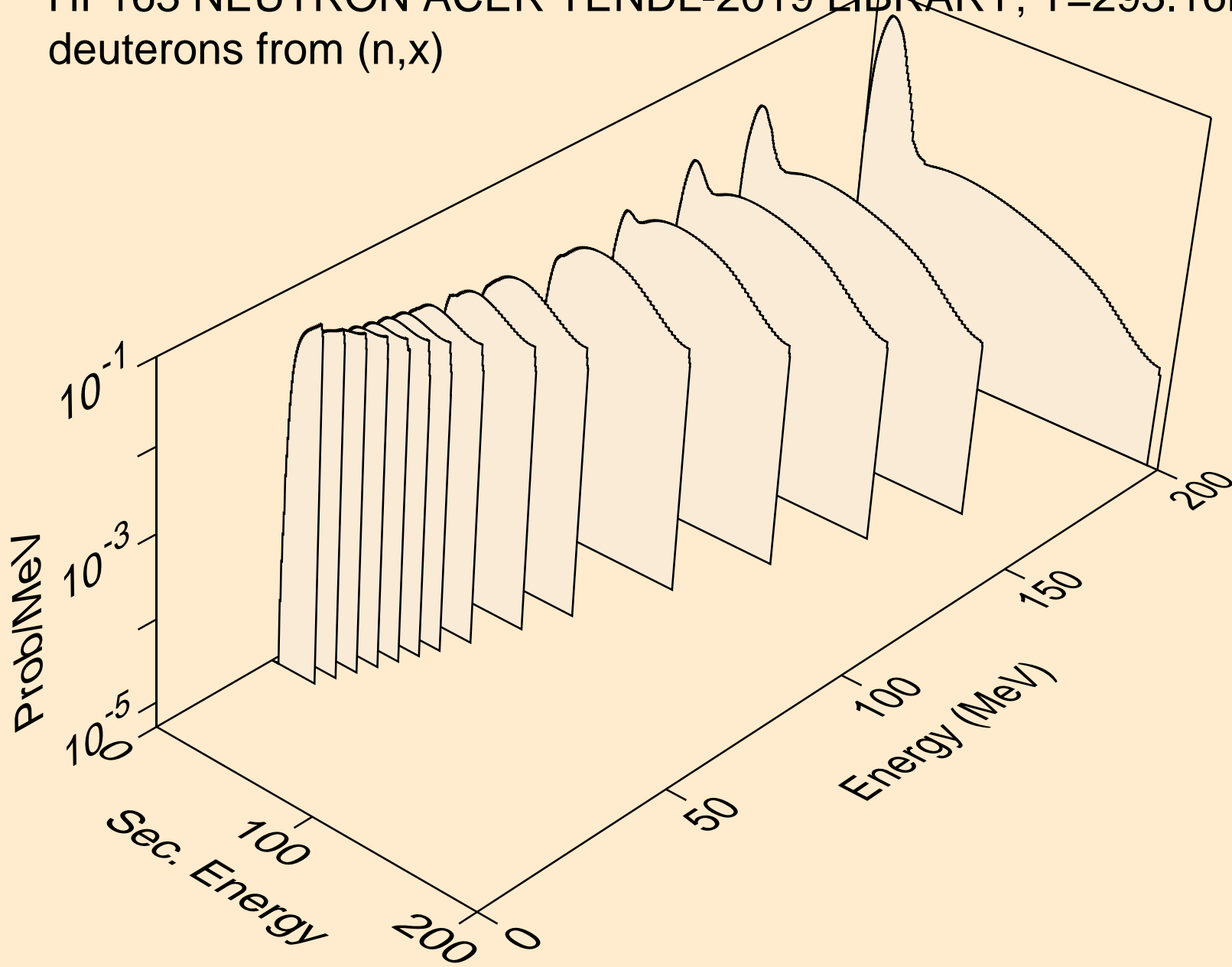
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,pd)



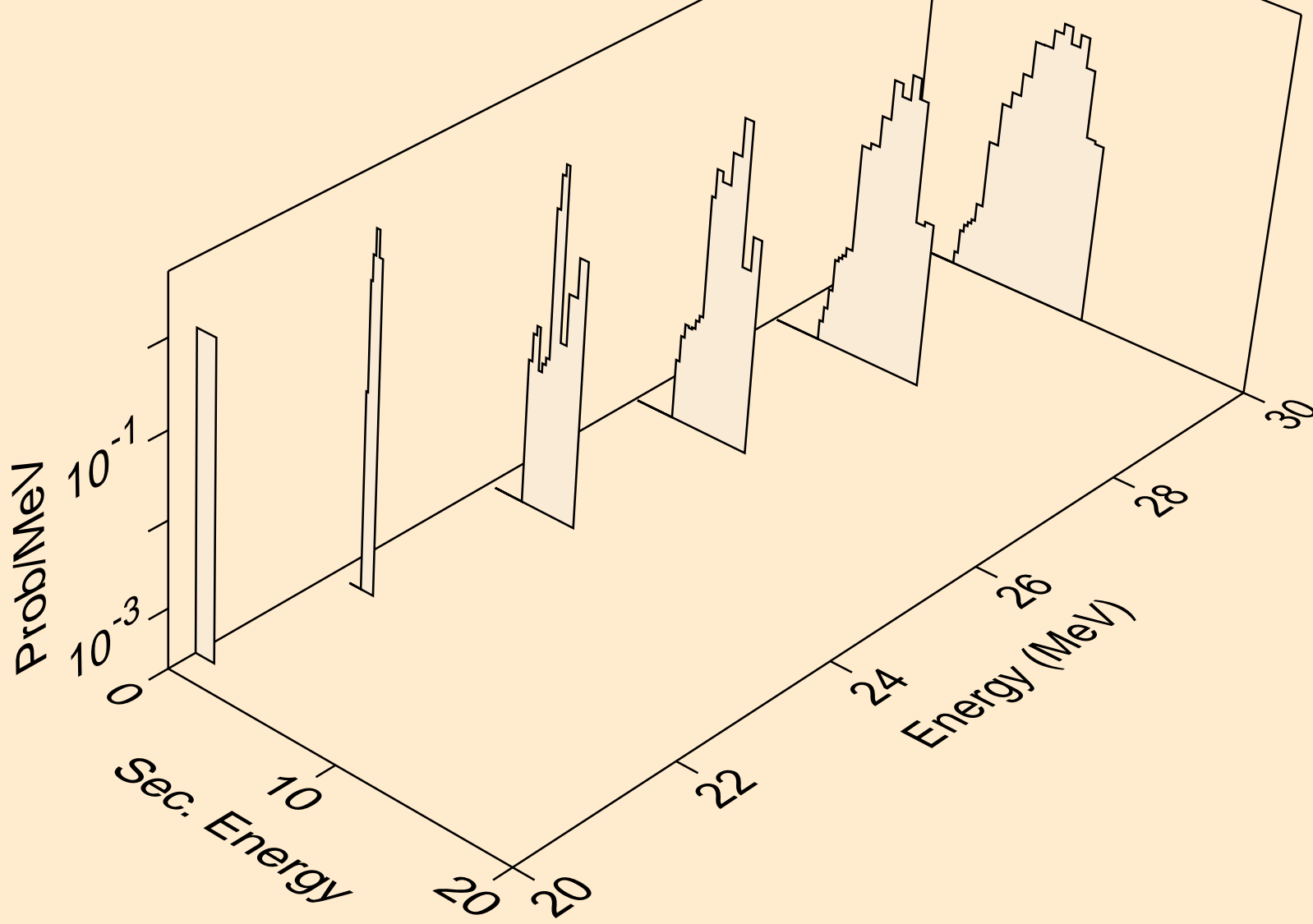
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
protons from (n,pt)



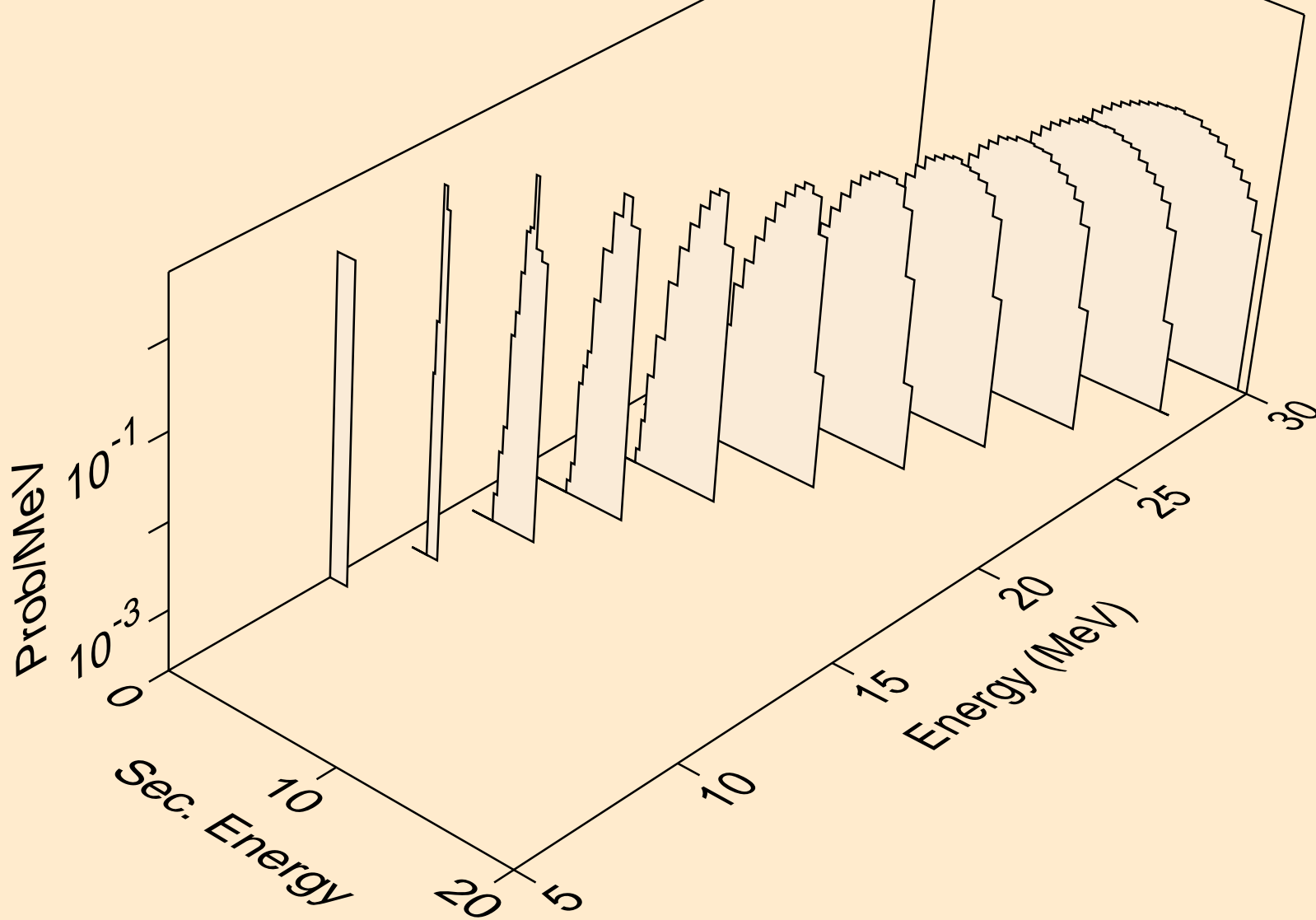
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
deuterons from (n,x)



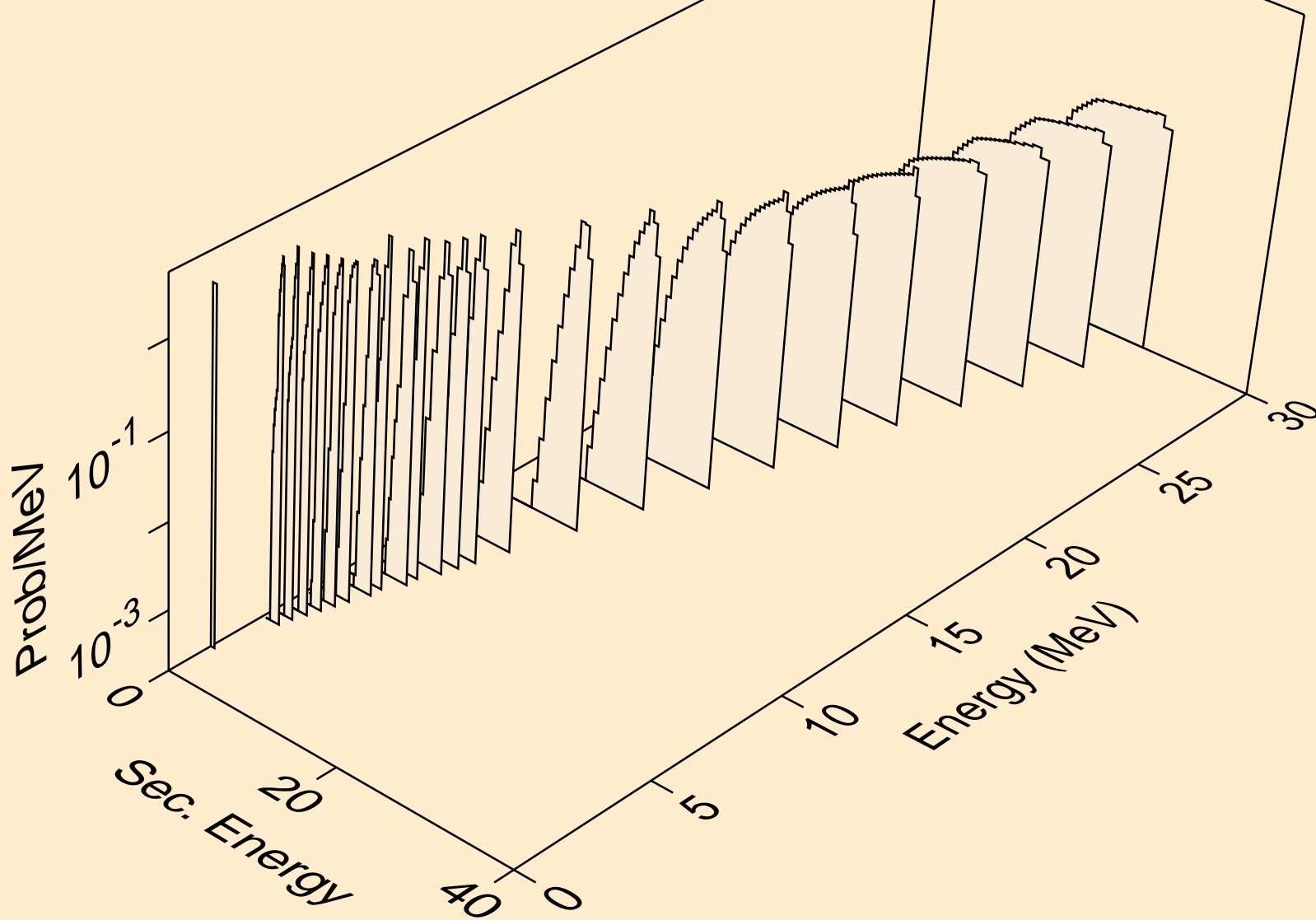
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
deuterons from (n,2nd)



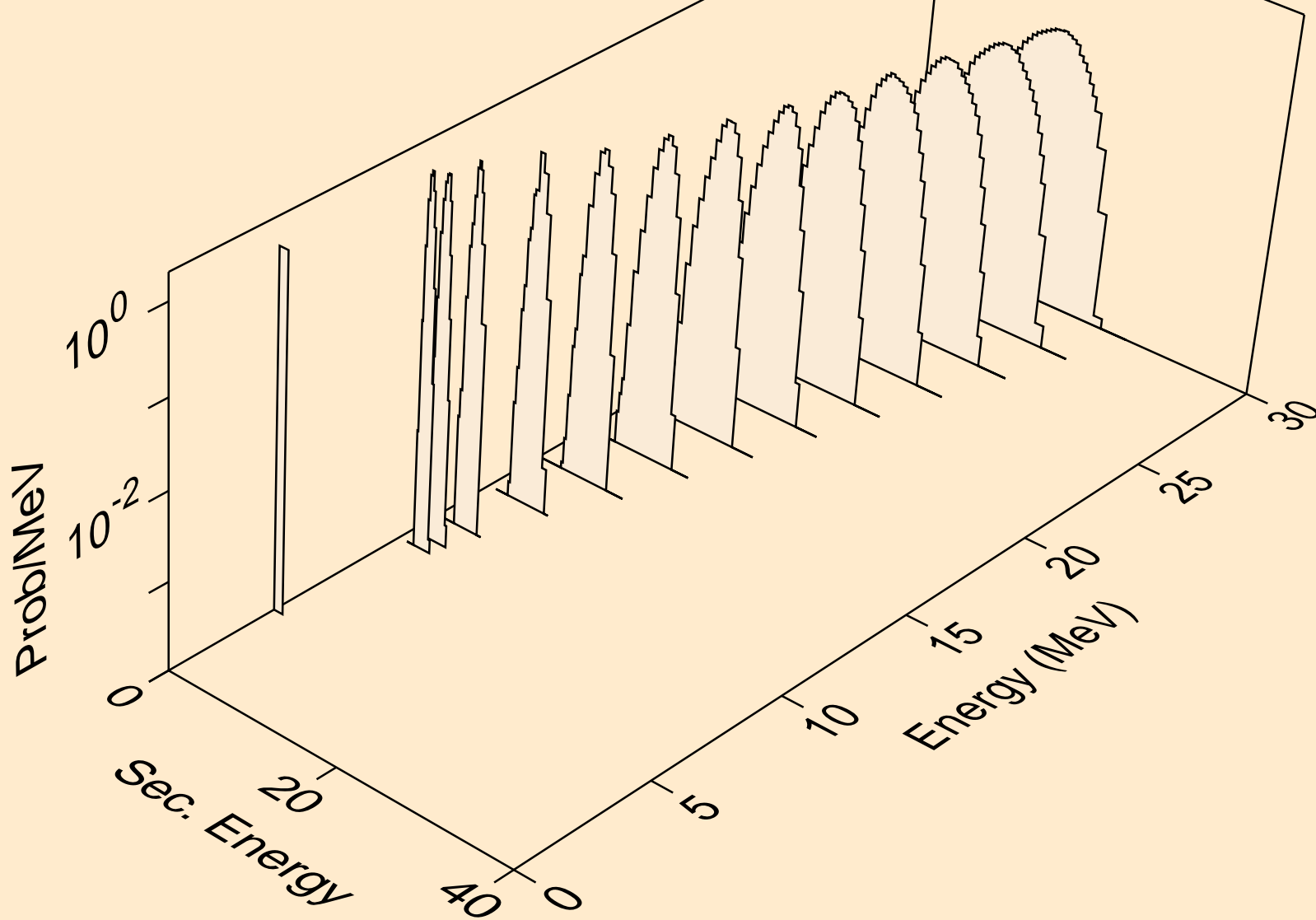
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
deuterons from (n,n*)d



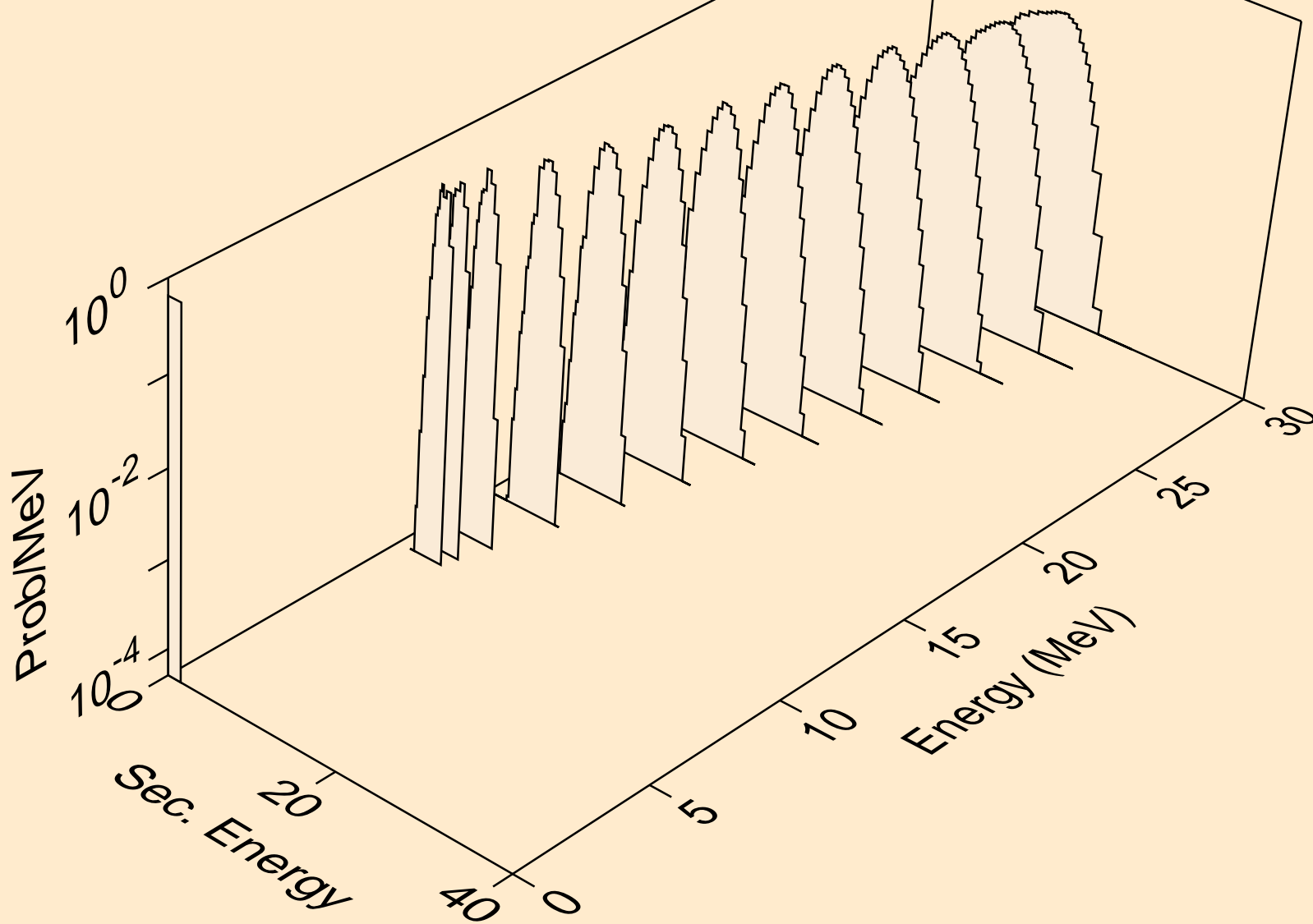
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deuterons from (n,d)



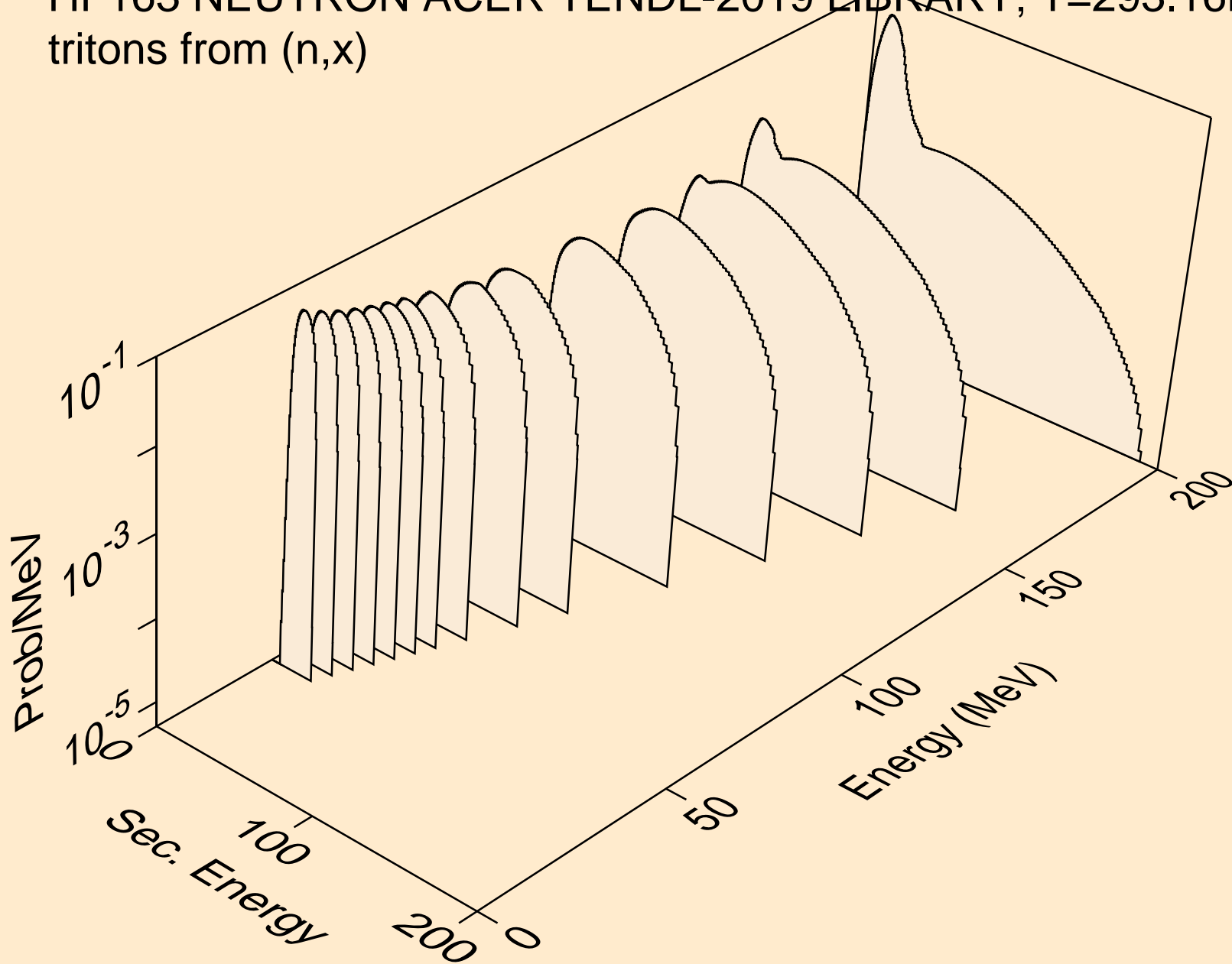
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
deuterons from (n,pd)



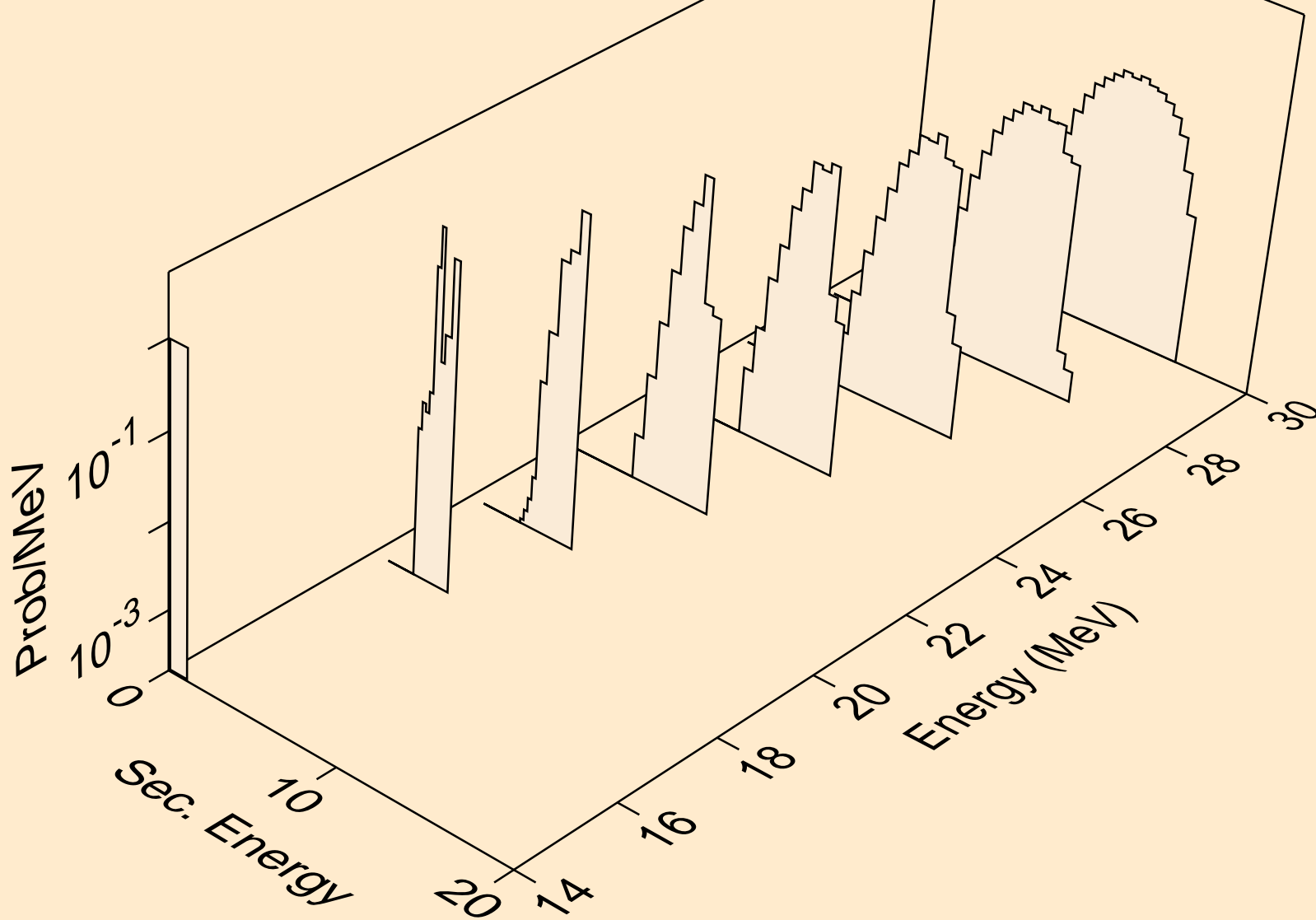
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
deuterons from (n,da)



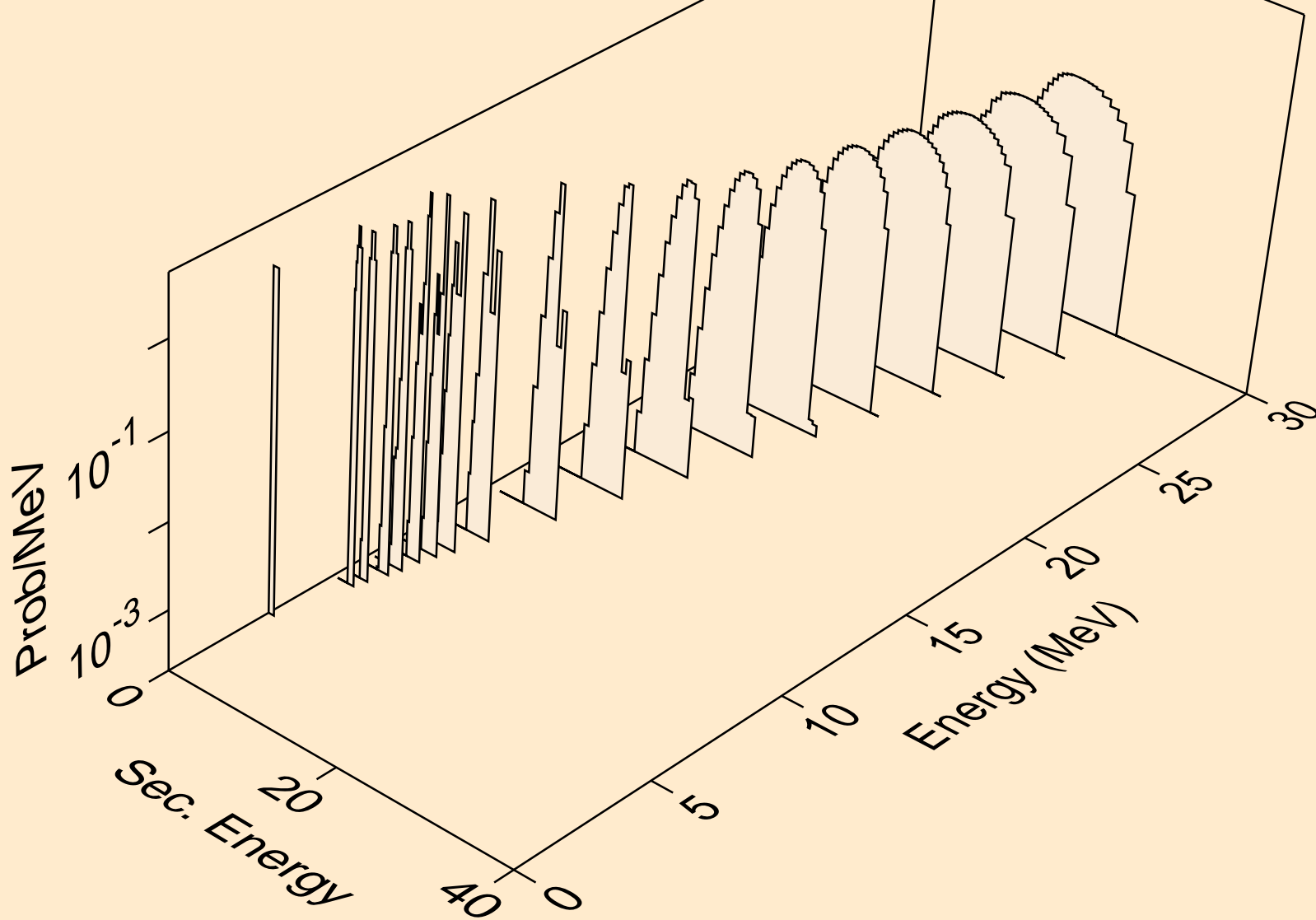
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
tritons from (n,x)



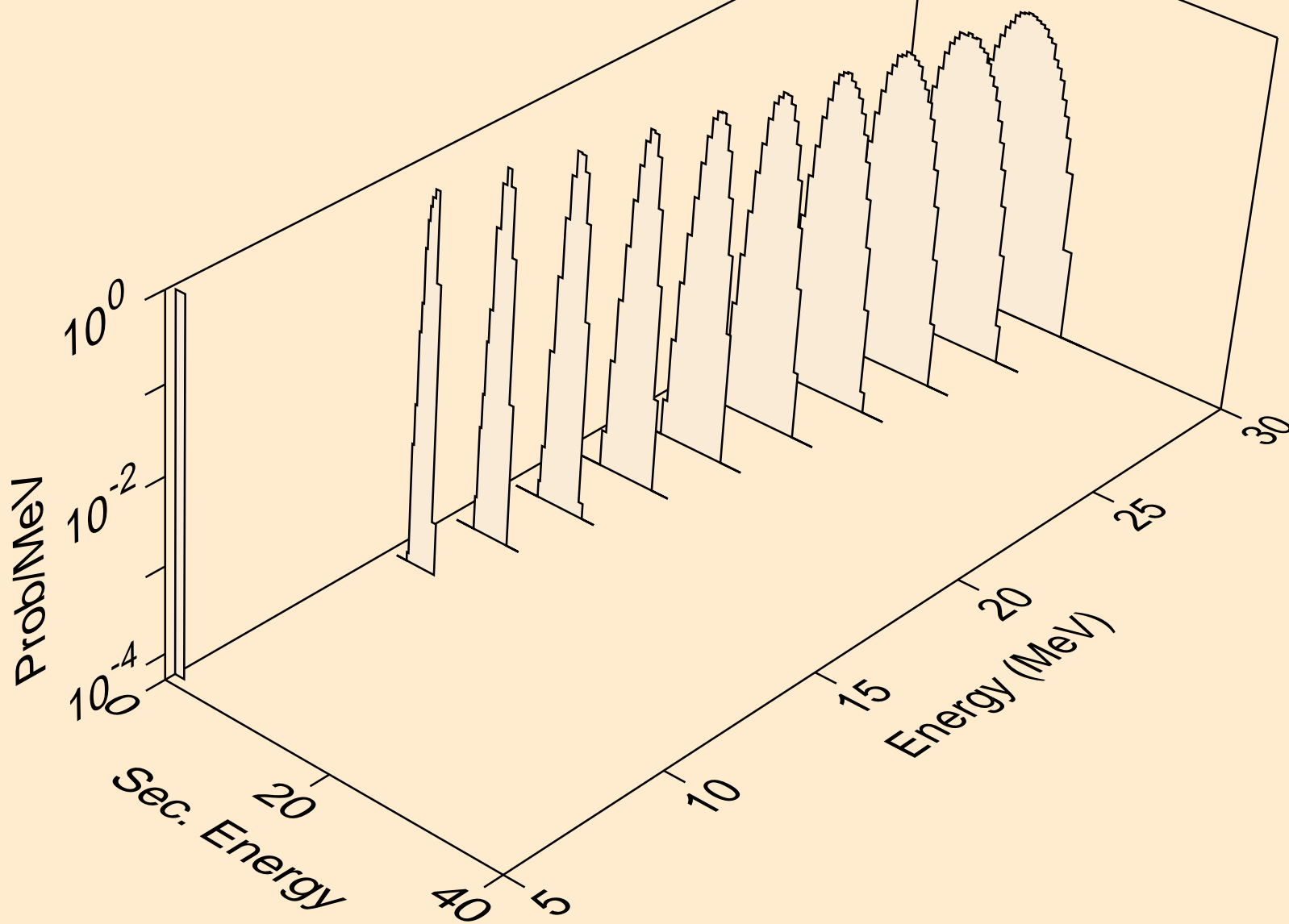
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
tritons from (n,n*)t



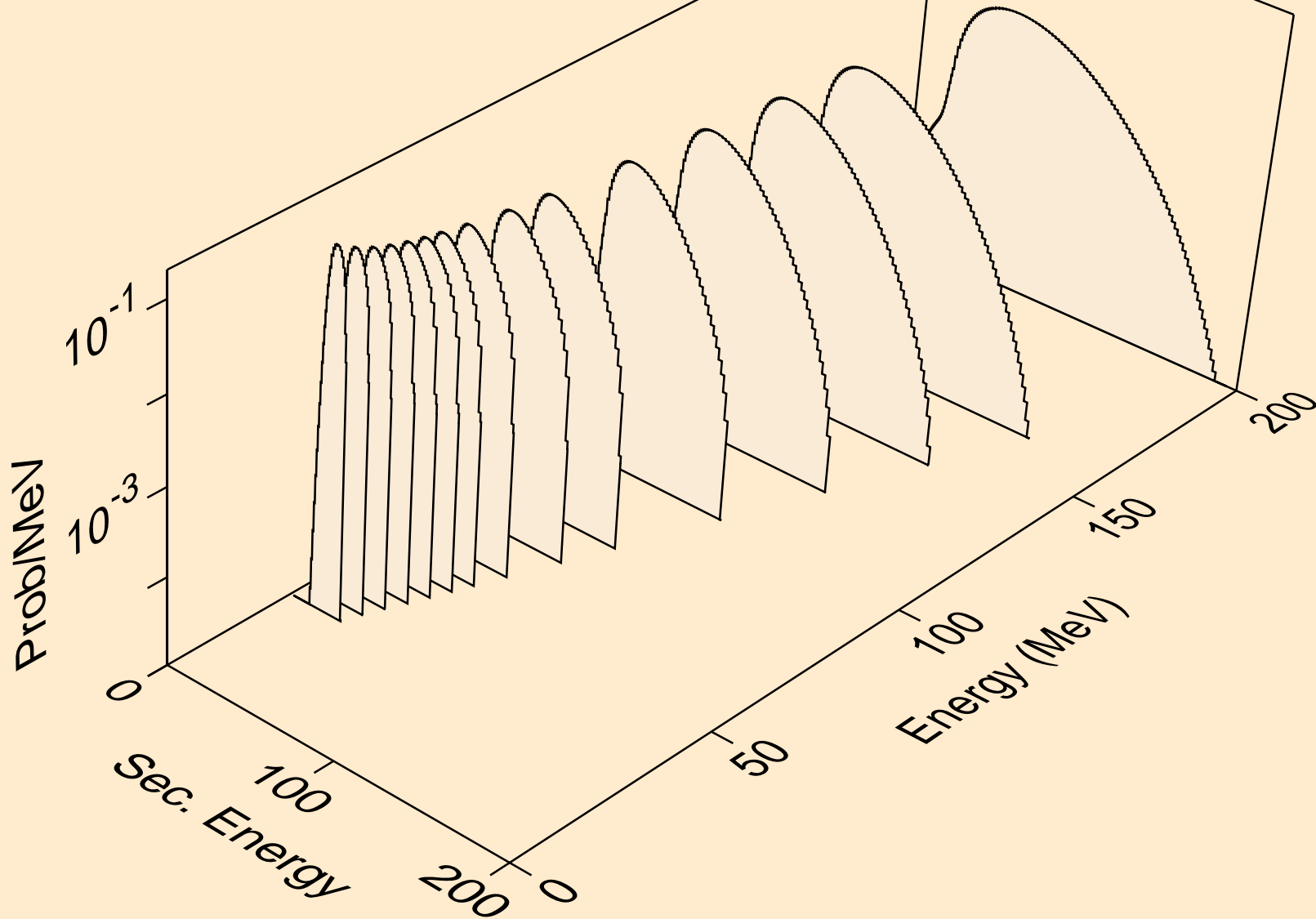
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tritons from (n,t)



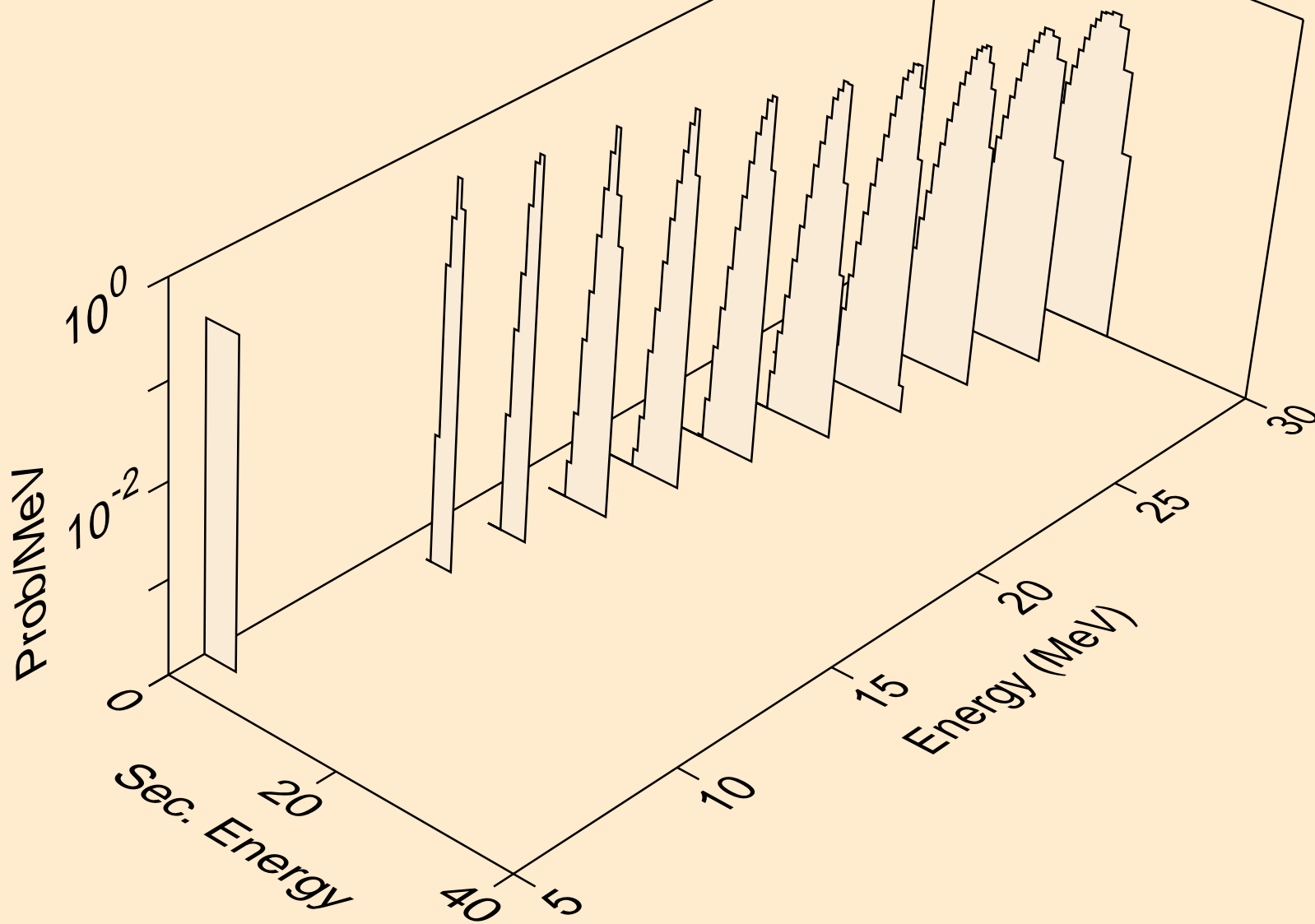
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
tritons from (n,pt)



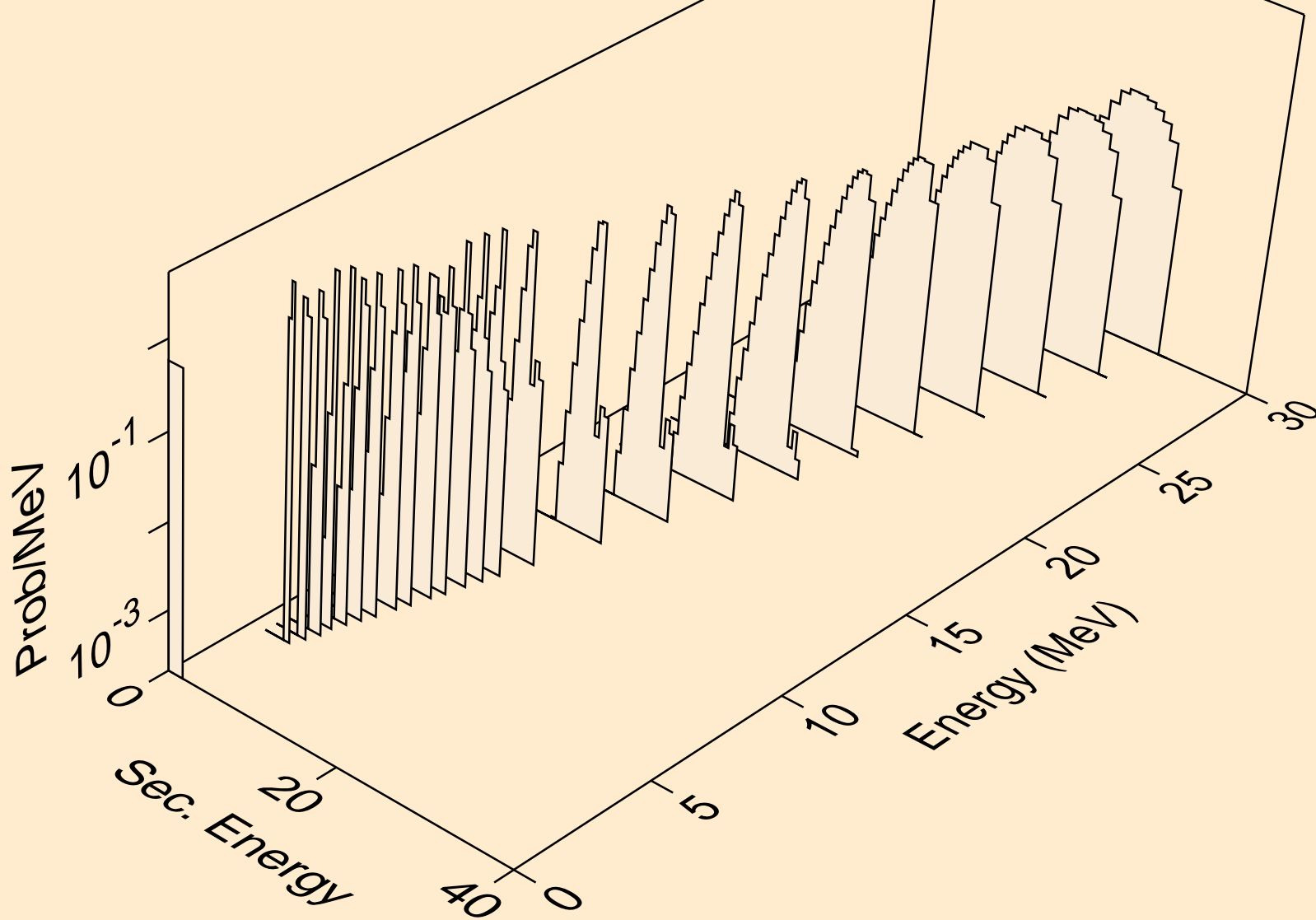
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
he3s from (n,x)



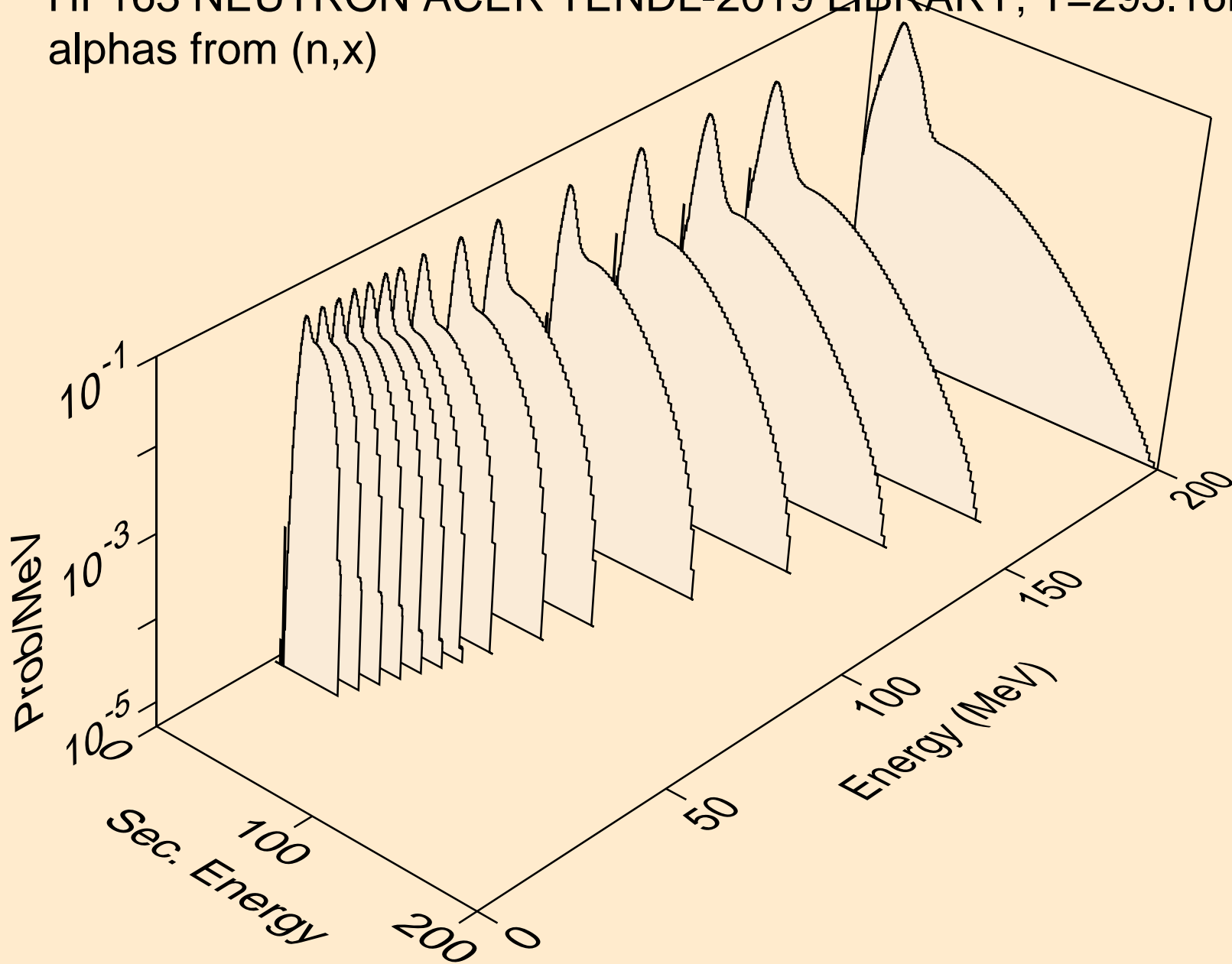
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
he3s from (n,n*)he3



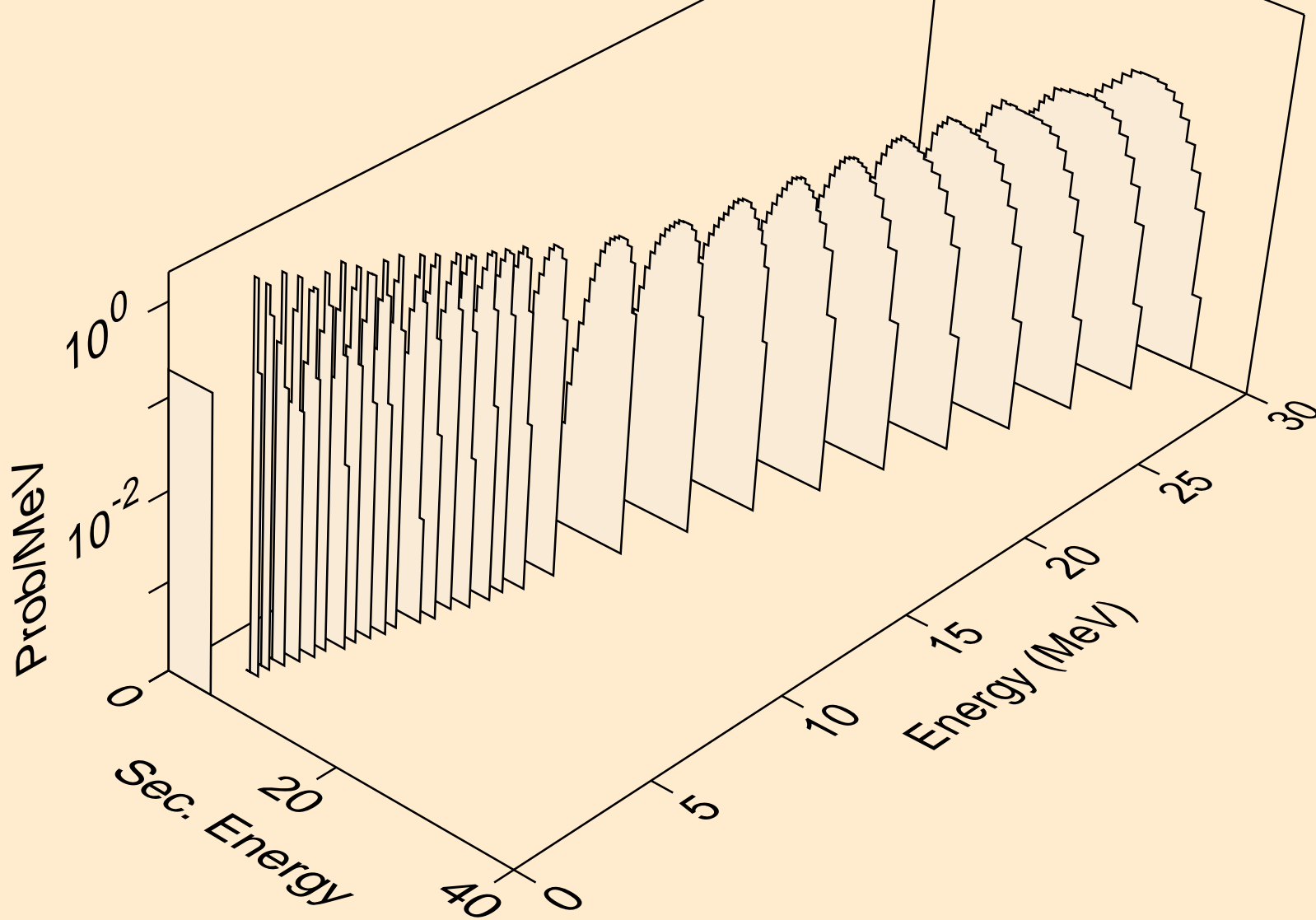
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he3s from (n,he3)



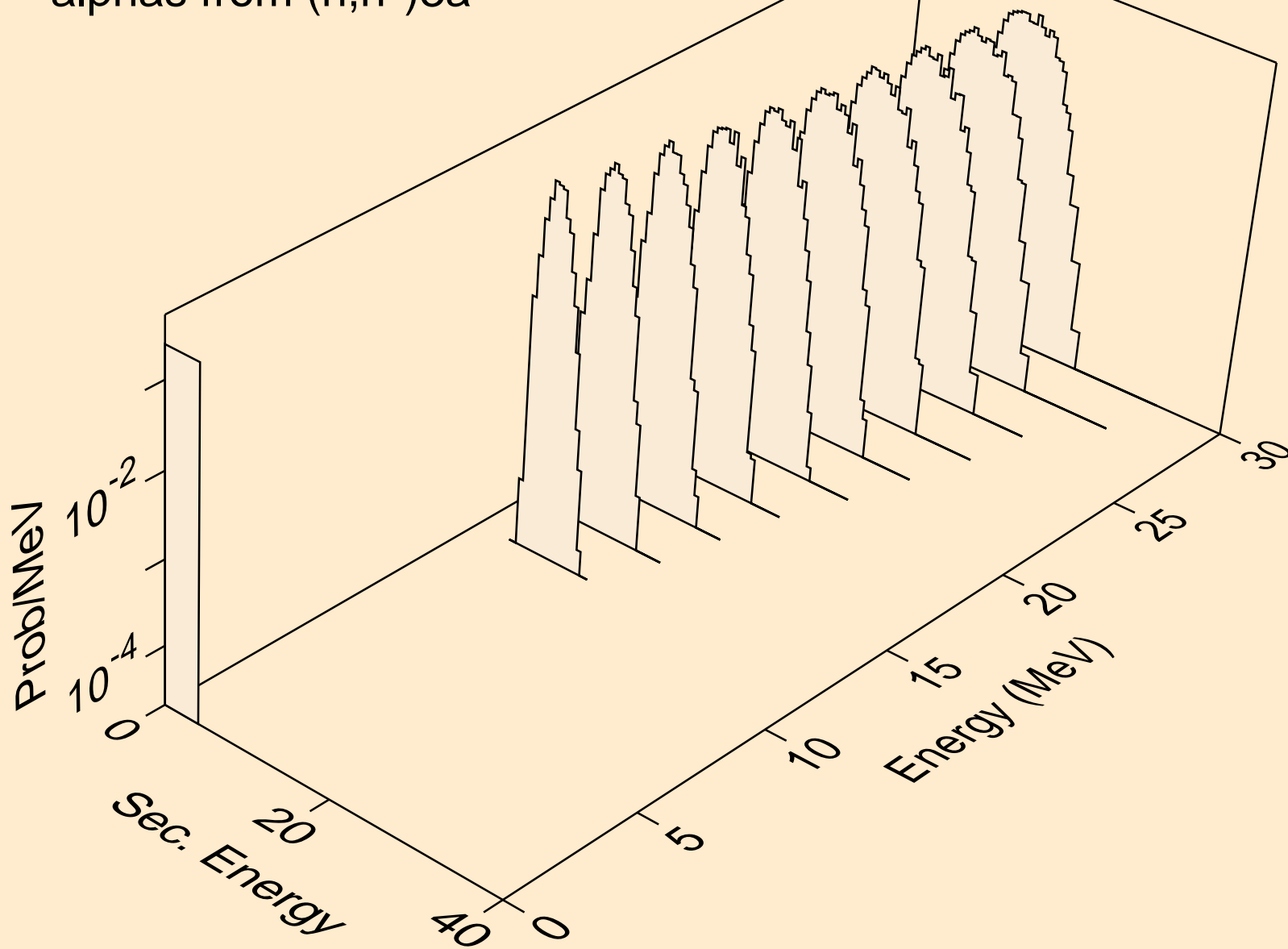
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,x)



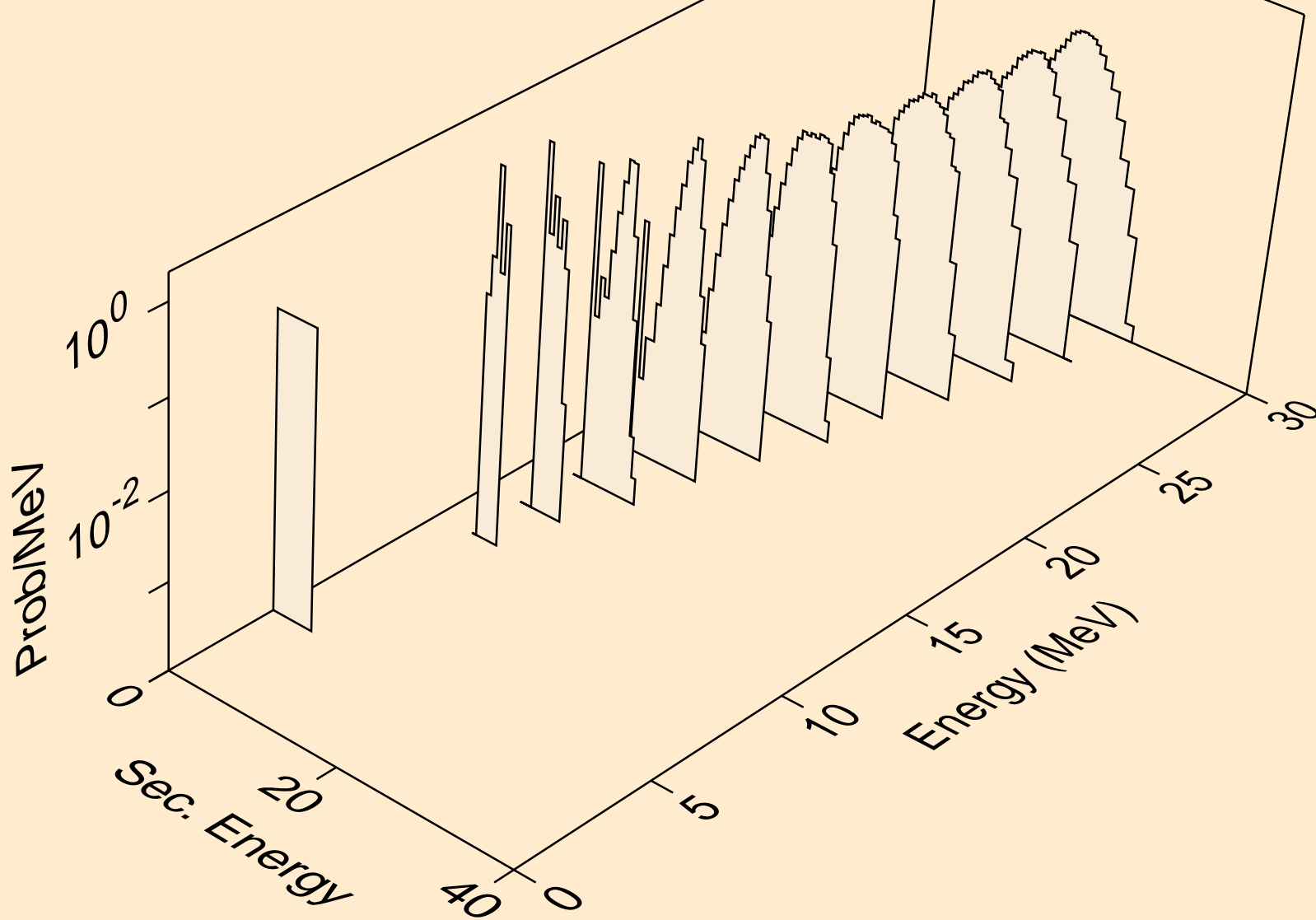
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,n*)a



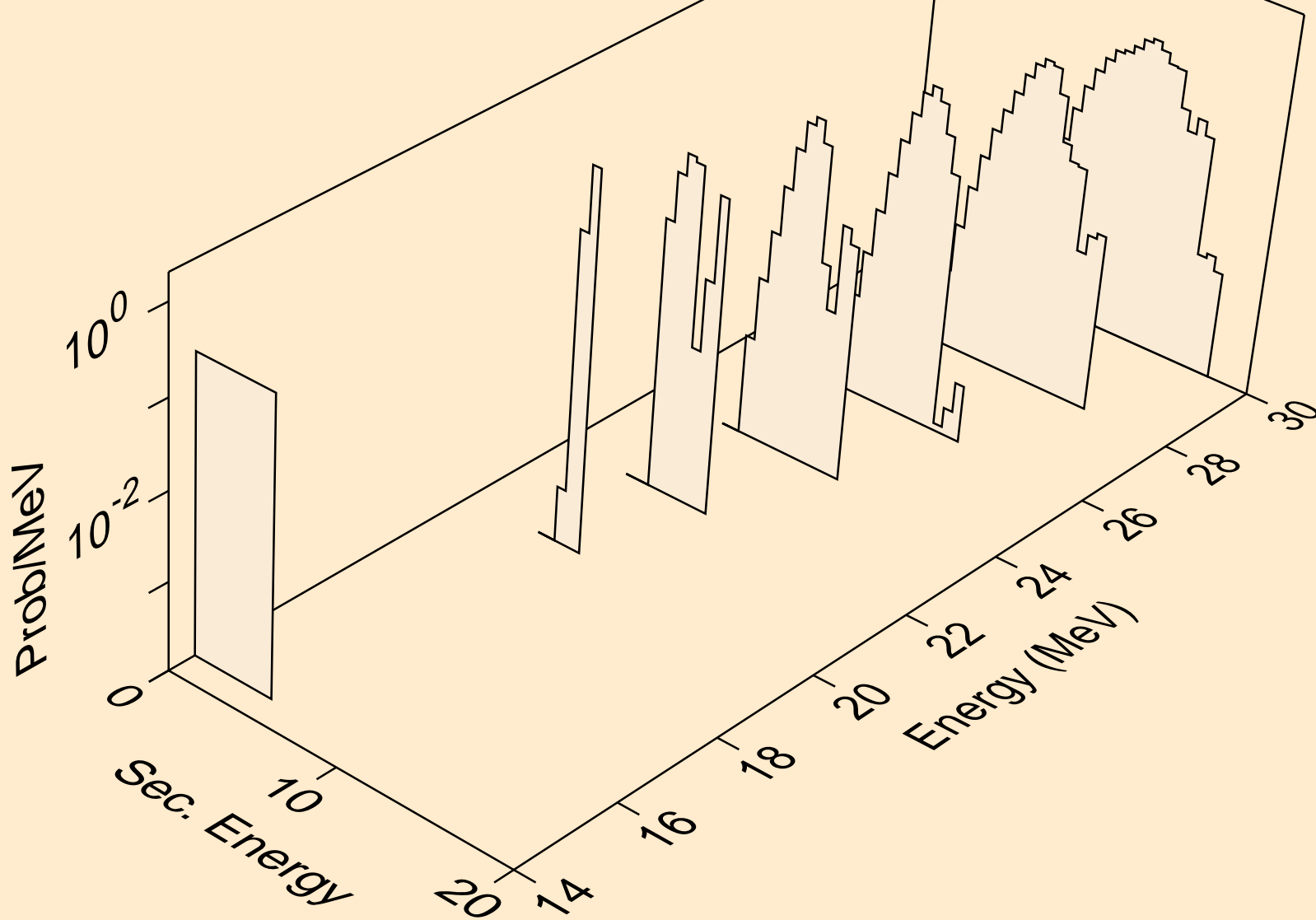
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,n*)3a



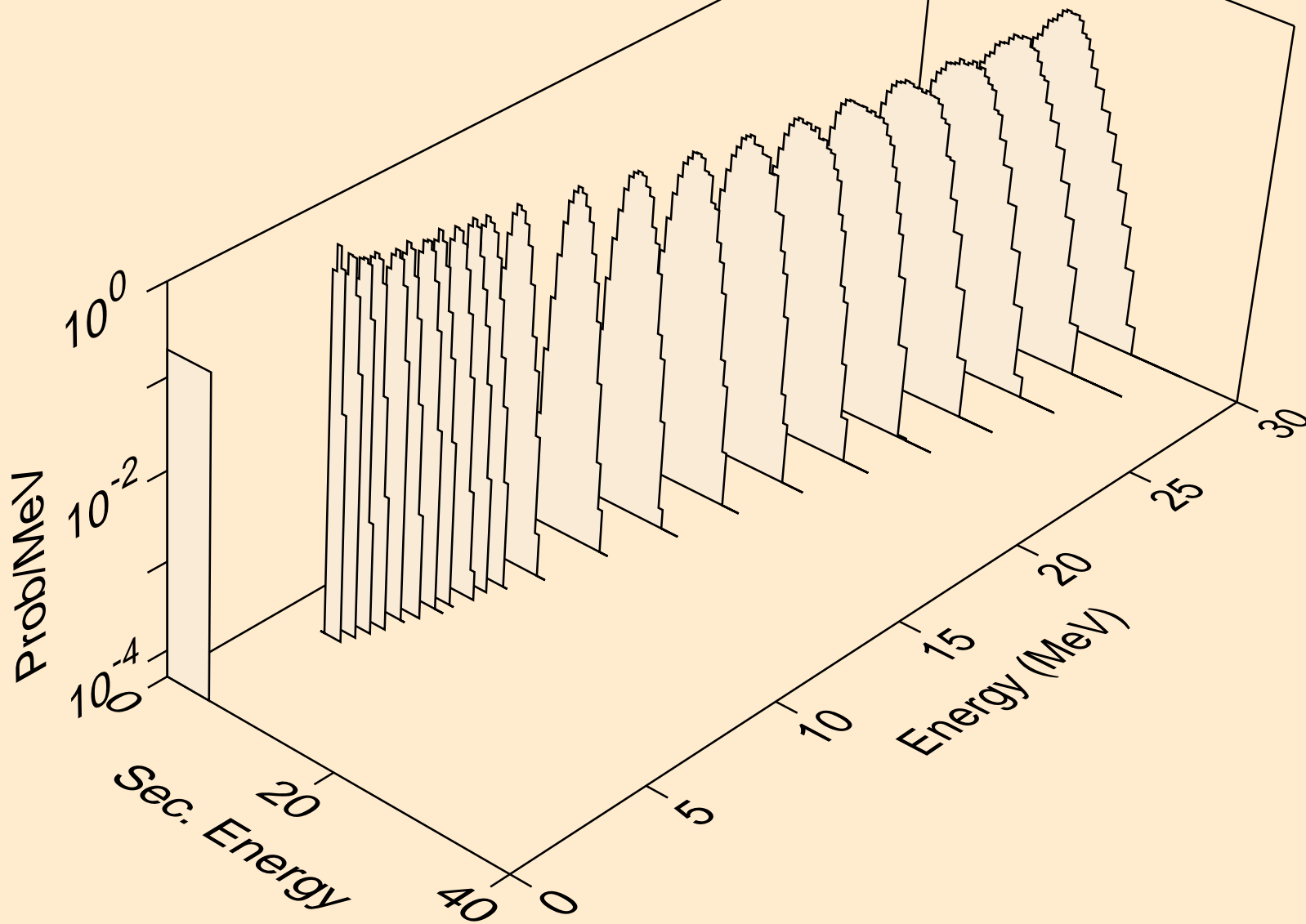
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,2n)a



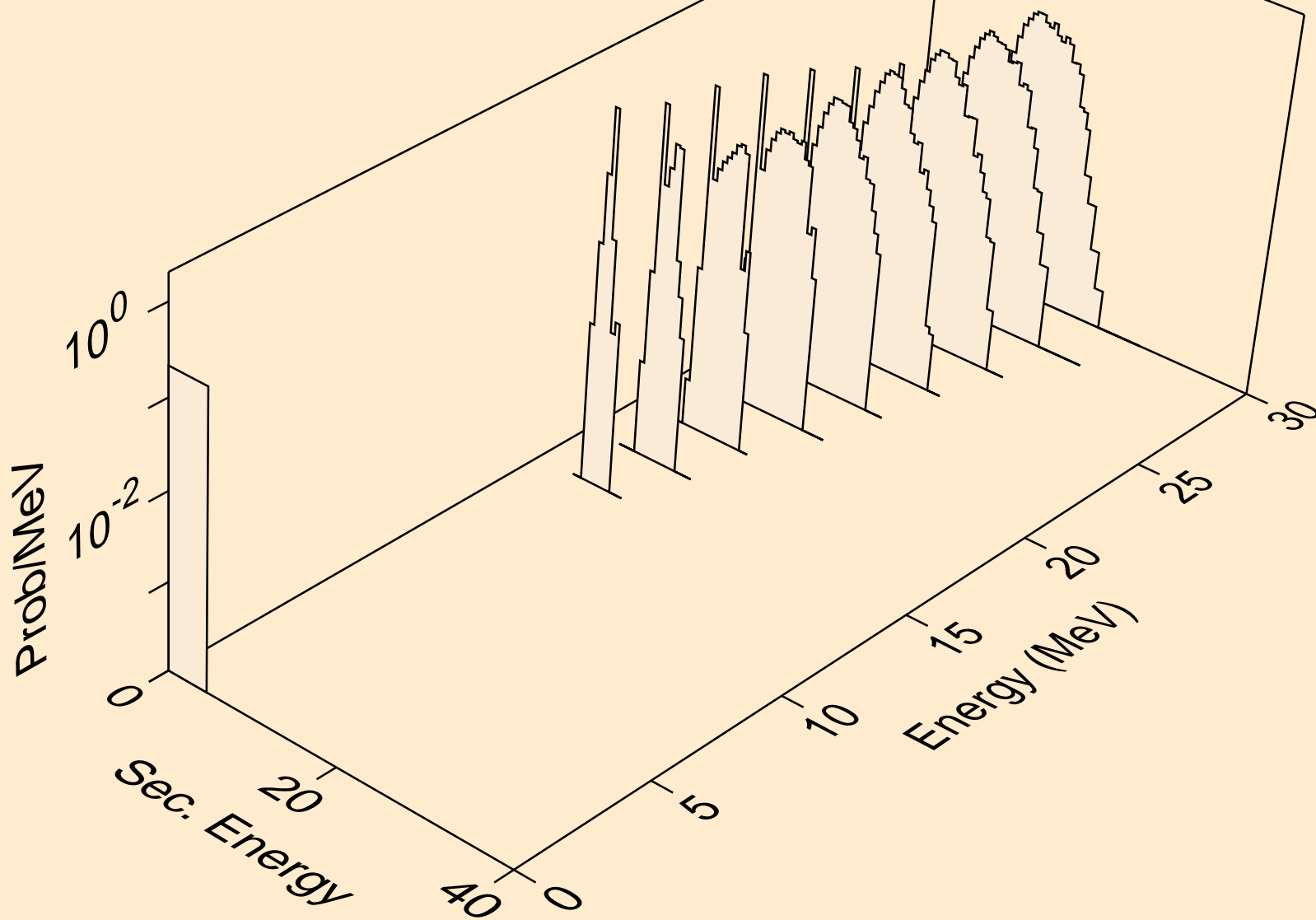
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,3n)a



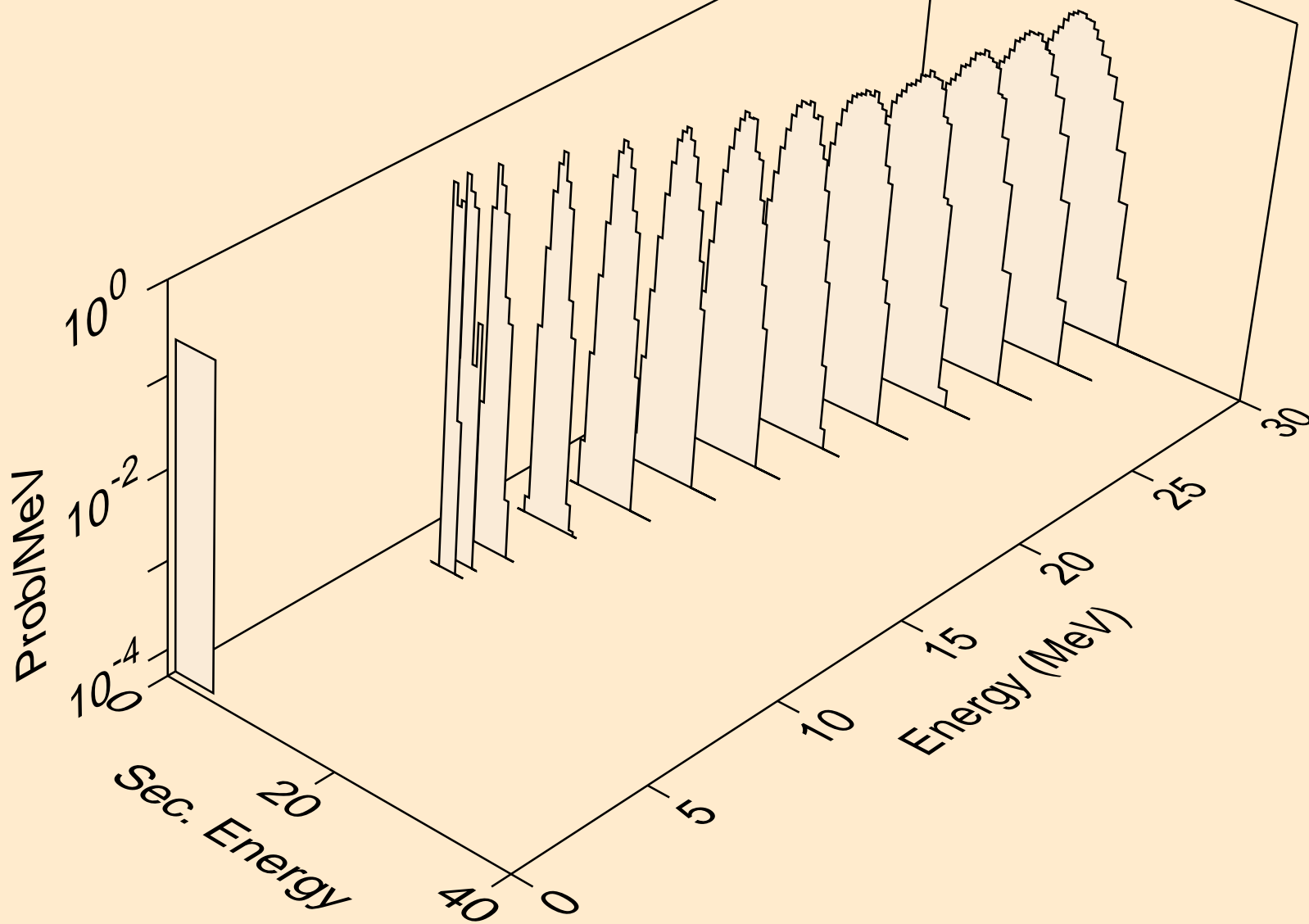
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,n*)2a



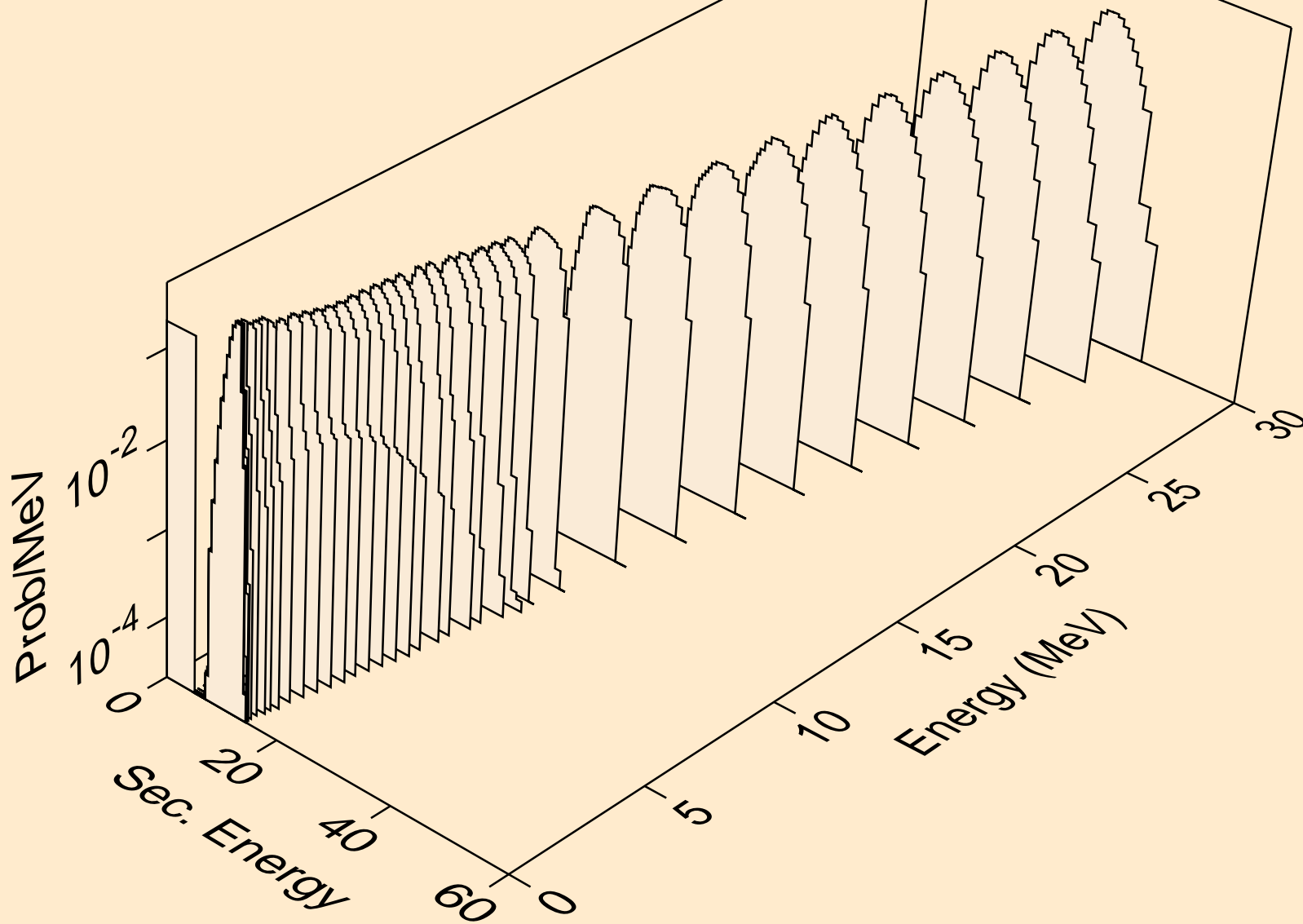
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,2n)2a



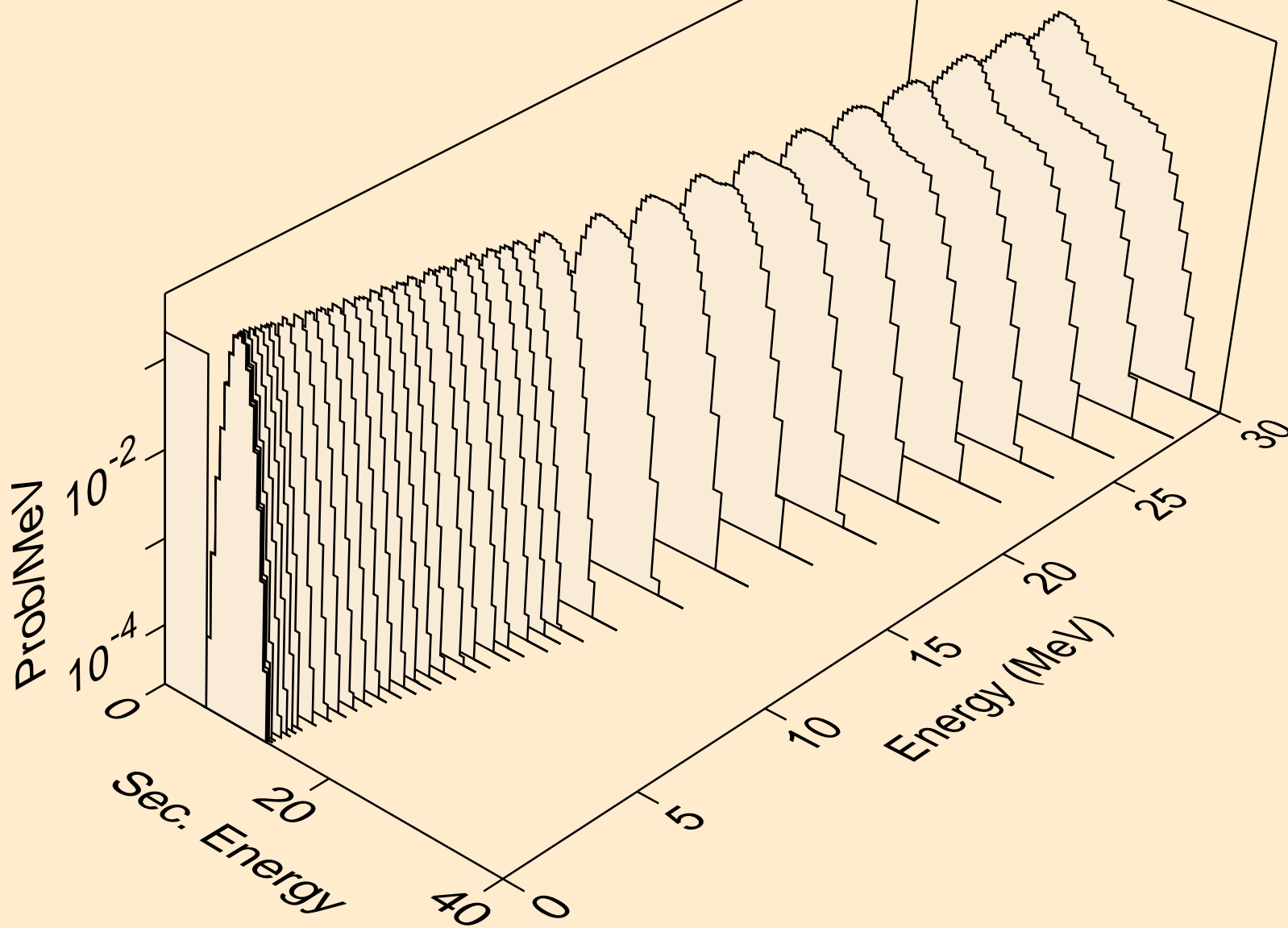
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,npa)



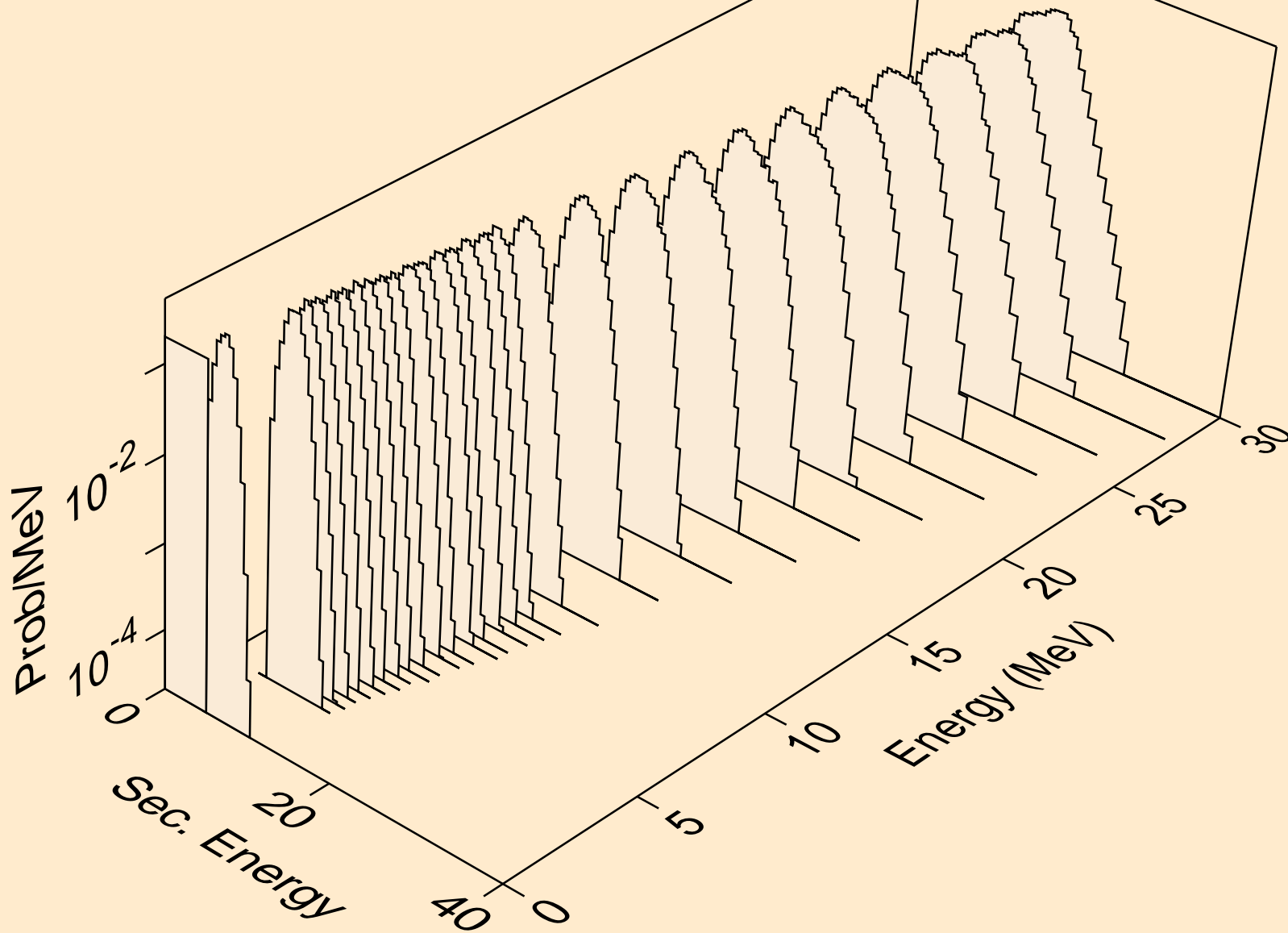
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,a)



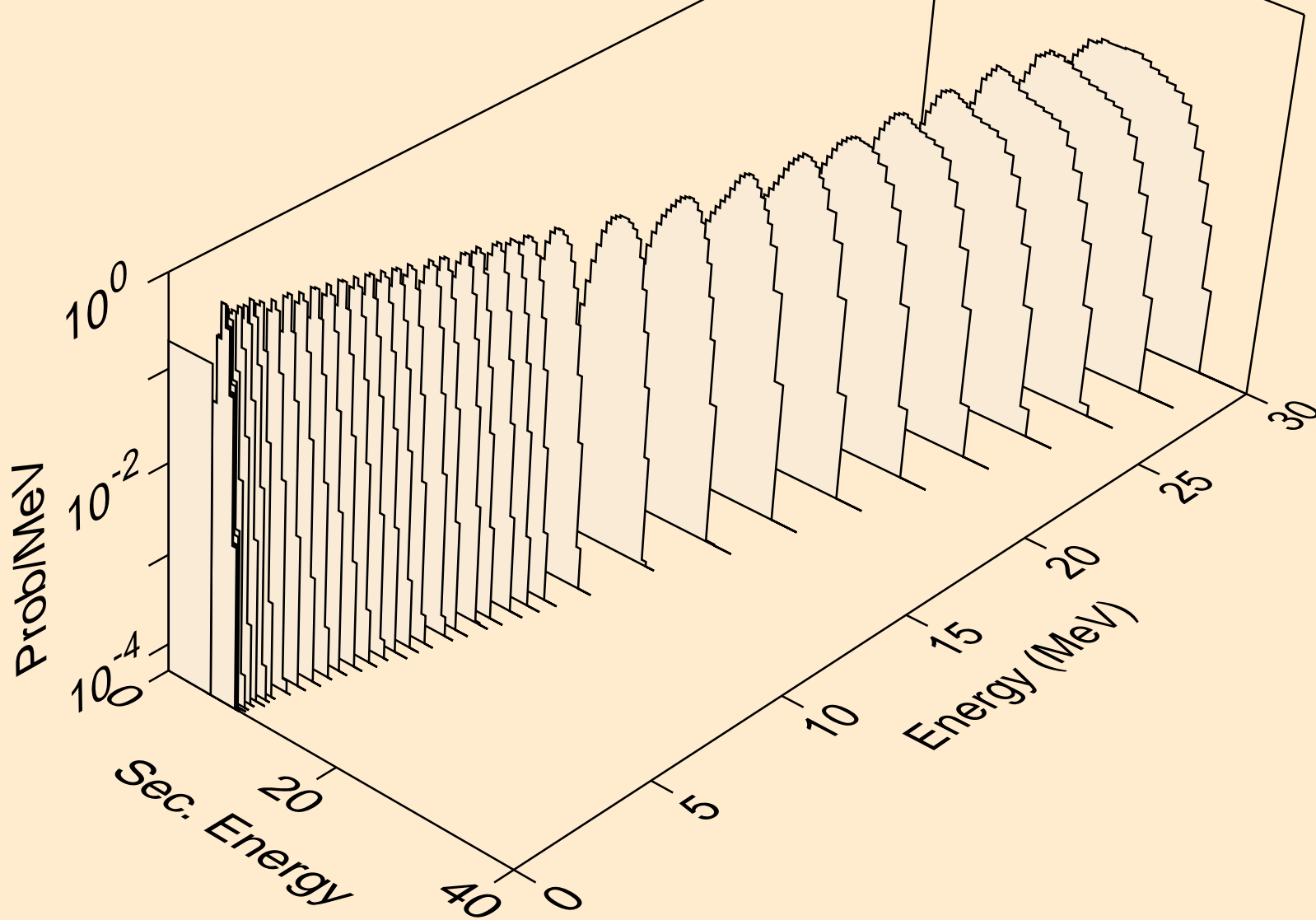
HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,2a)



HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,3a)



HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,pa)



HF163 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,da)

