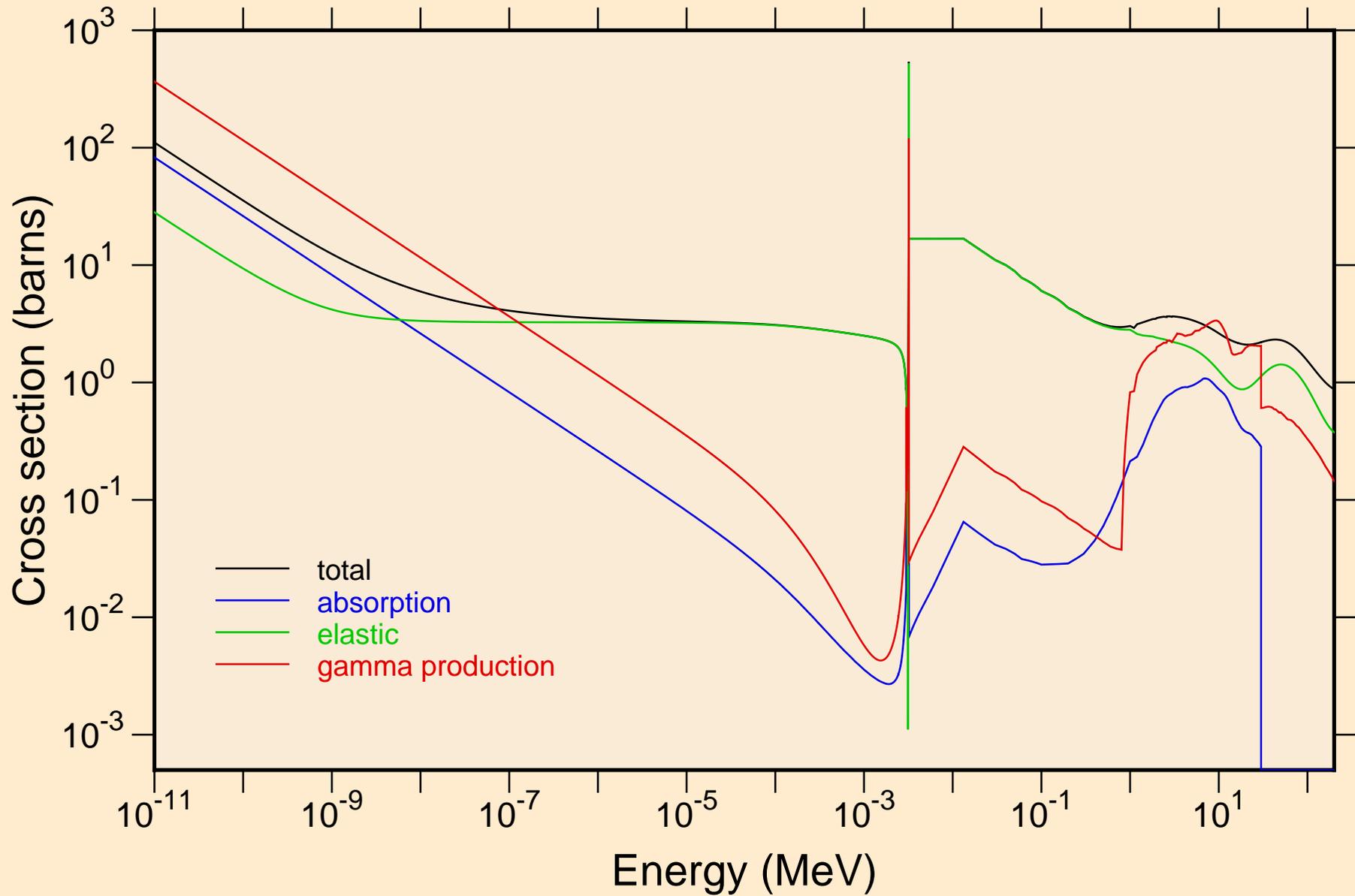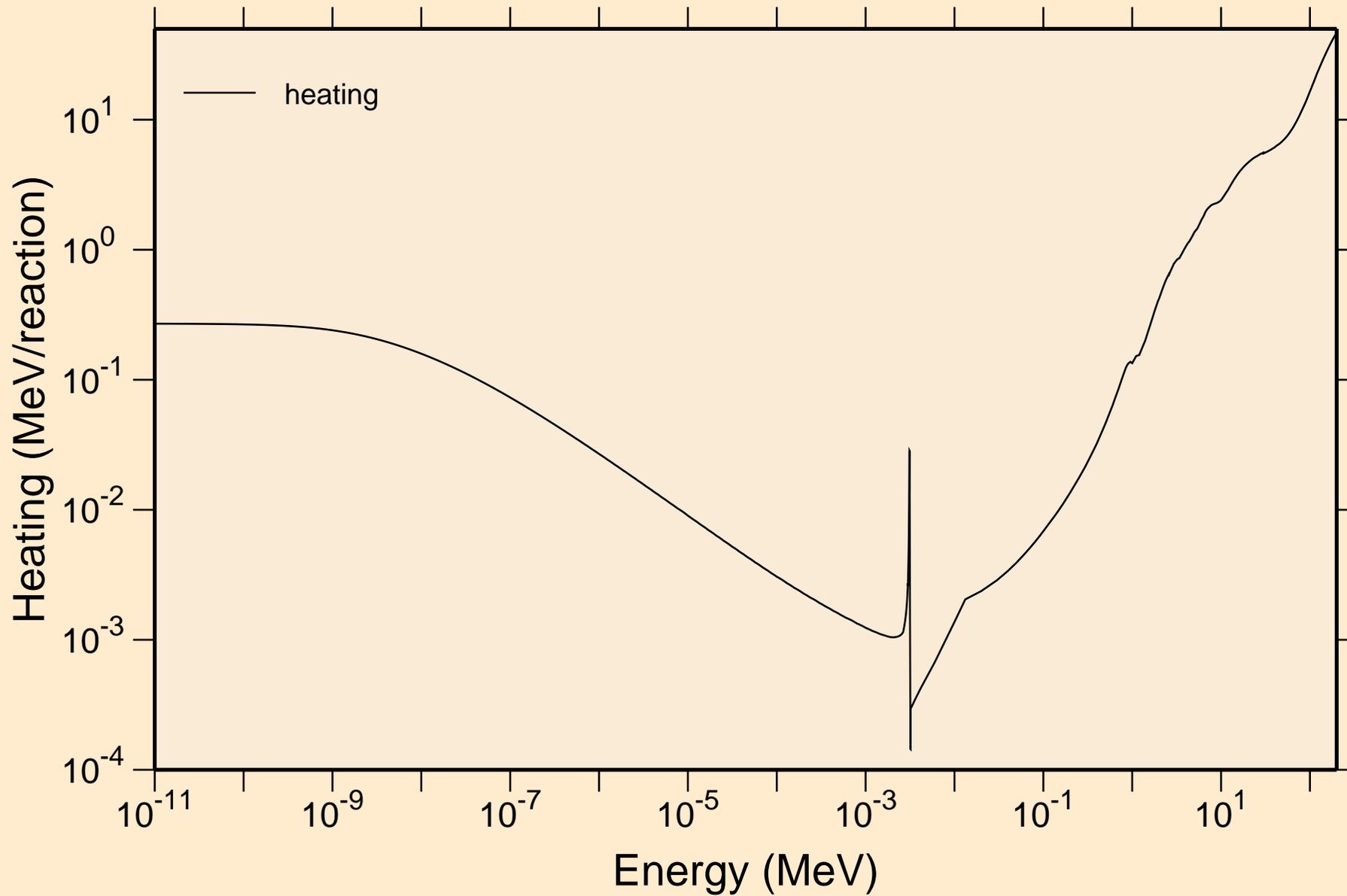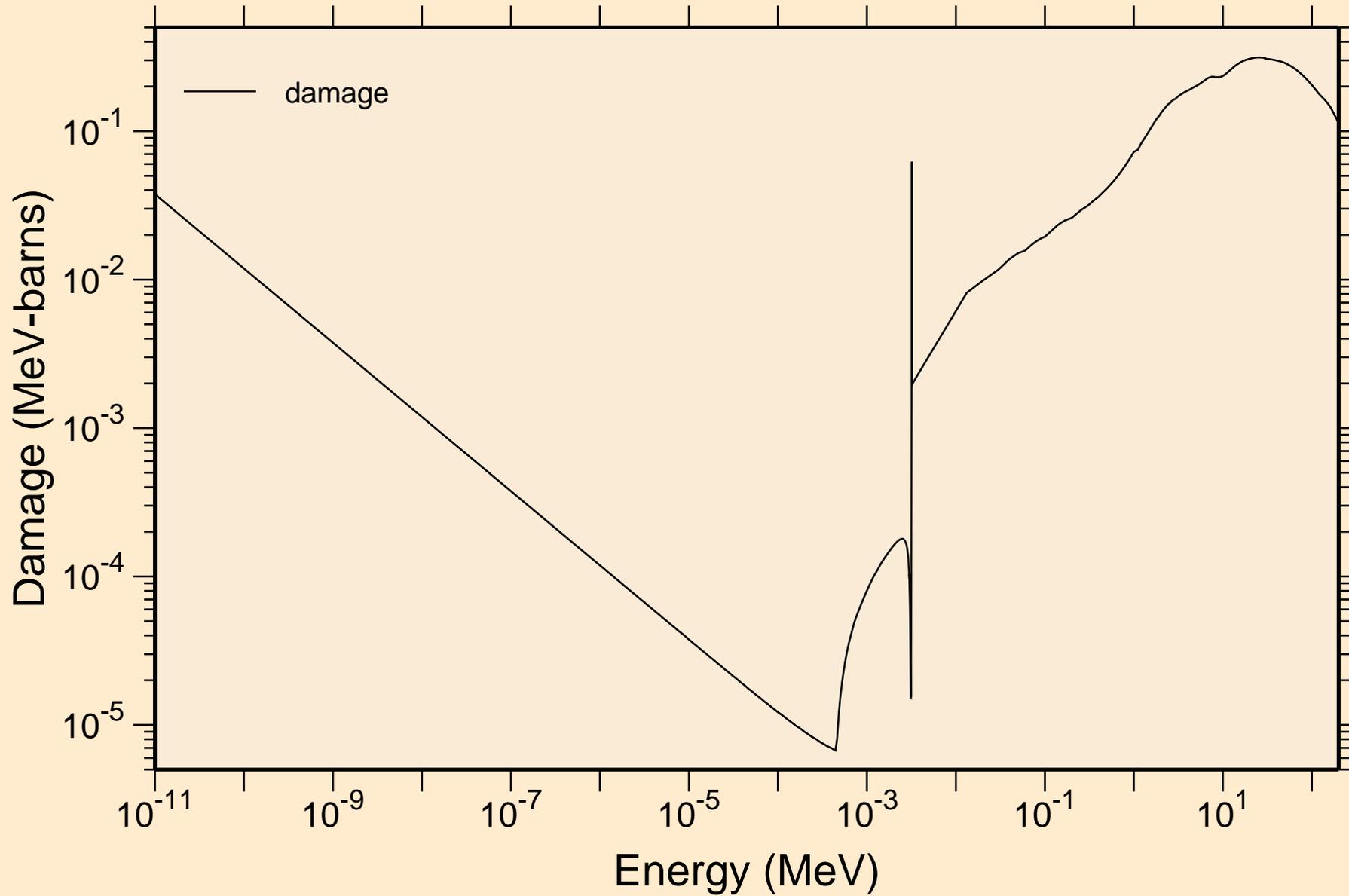TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Principal cross sections

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Heating

heating

Heating (MeV/reaction)

Energy (MeV)

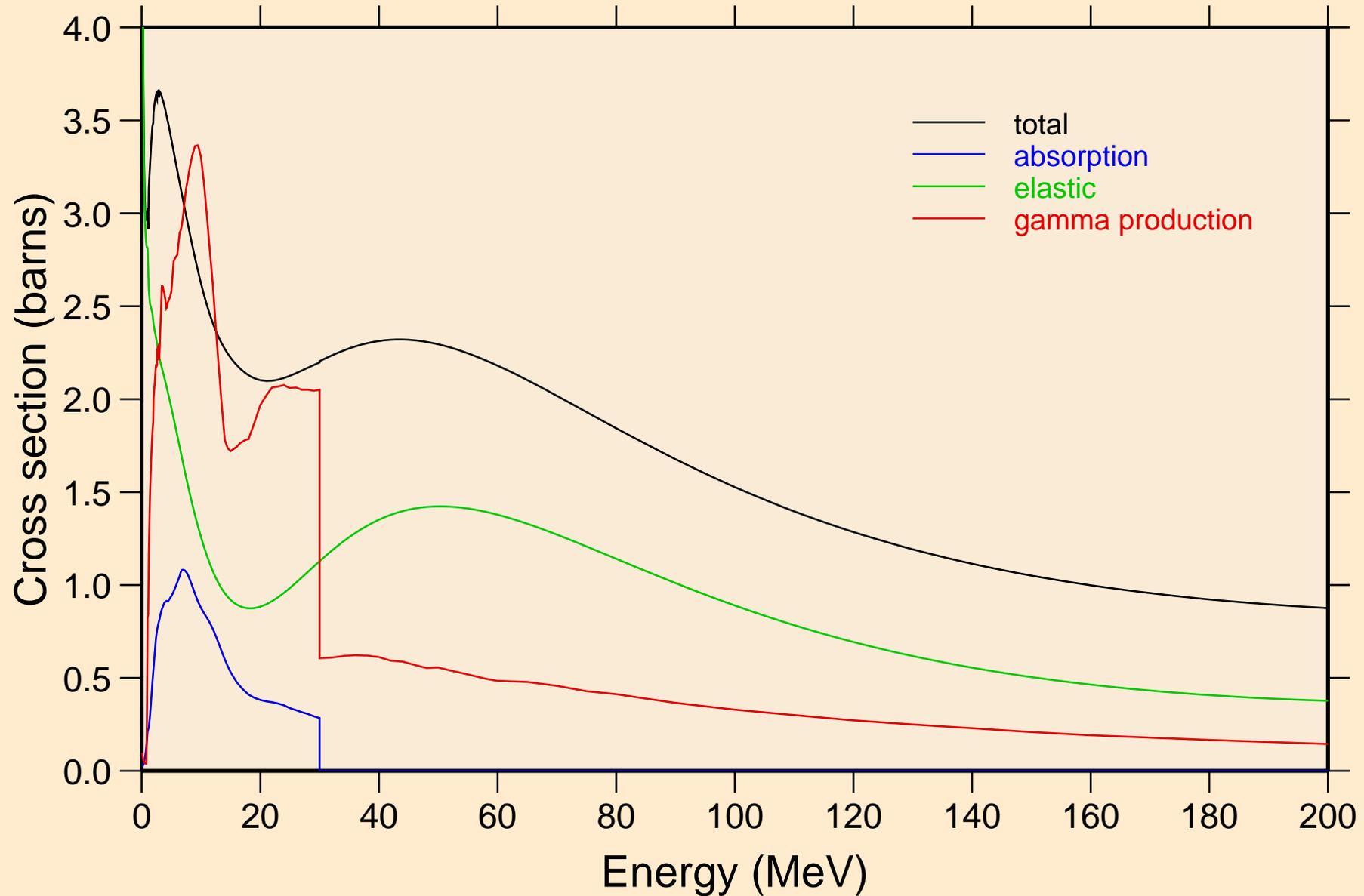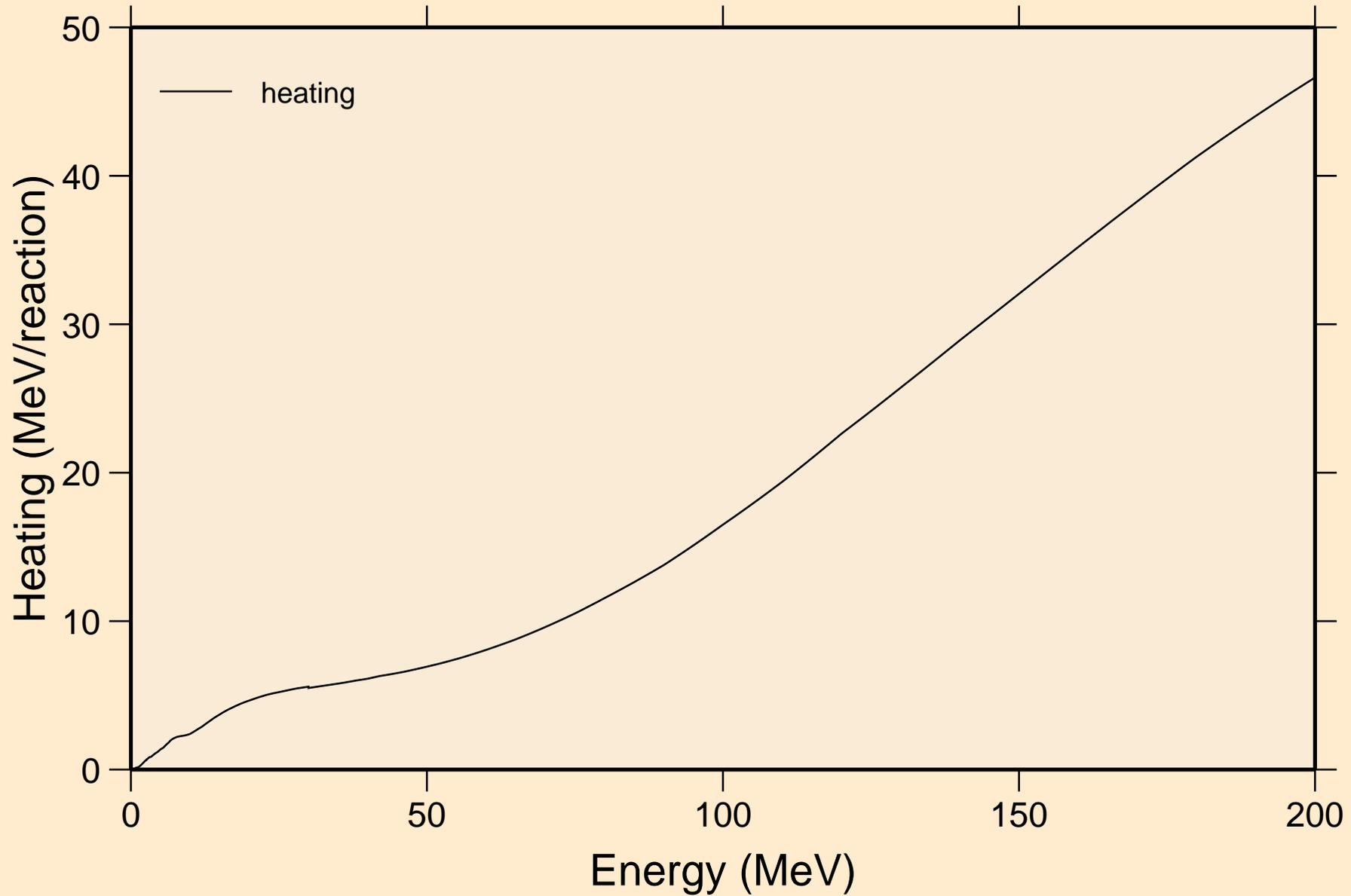TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Damage

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Non-threshold reactions
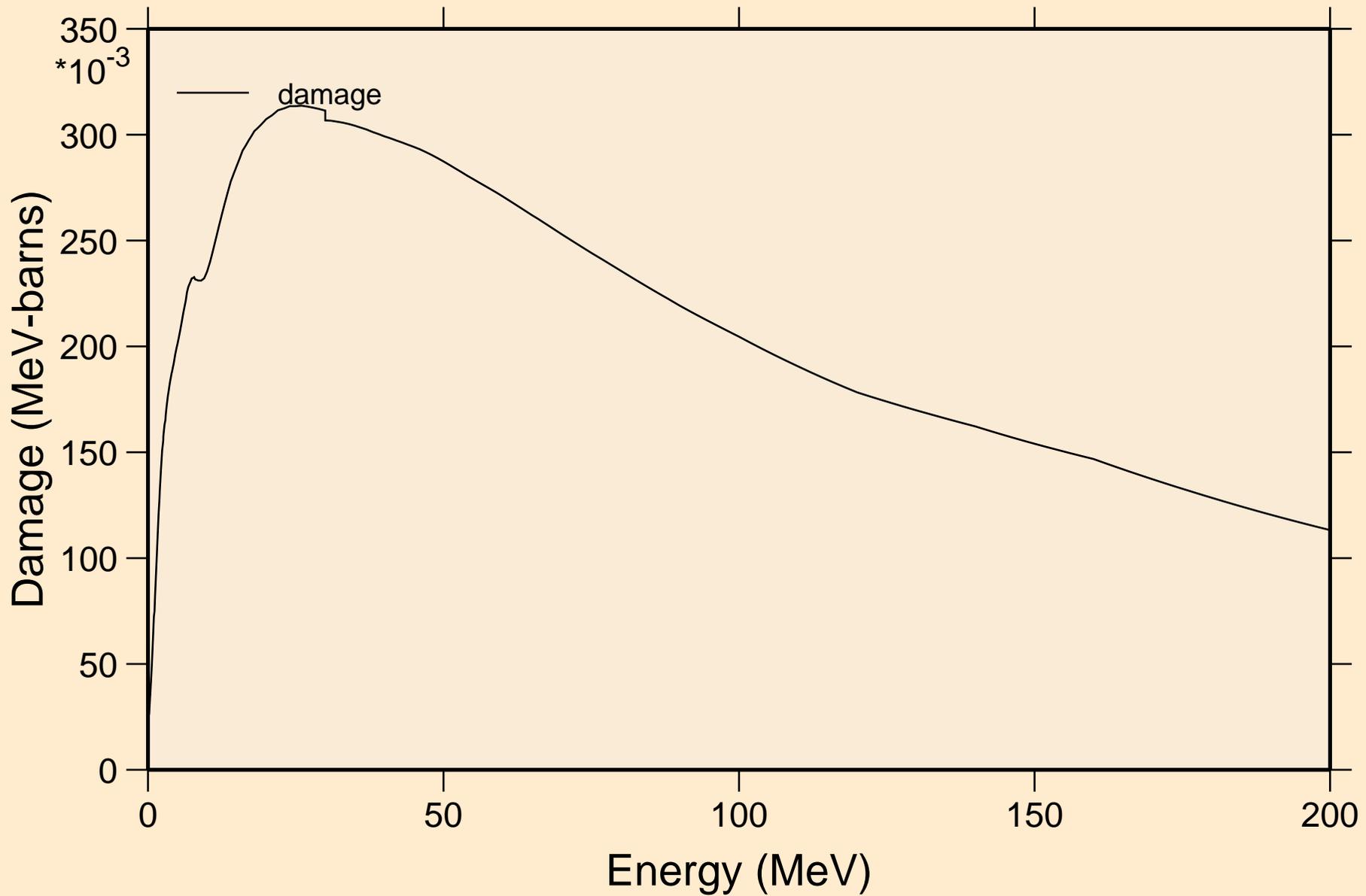
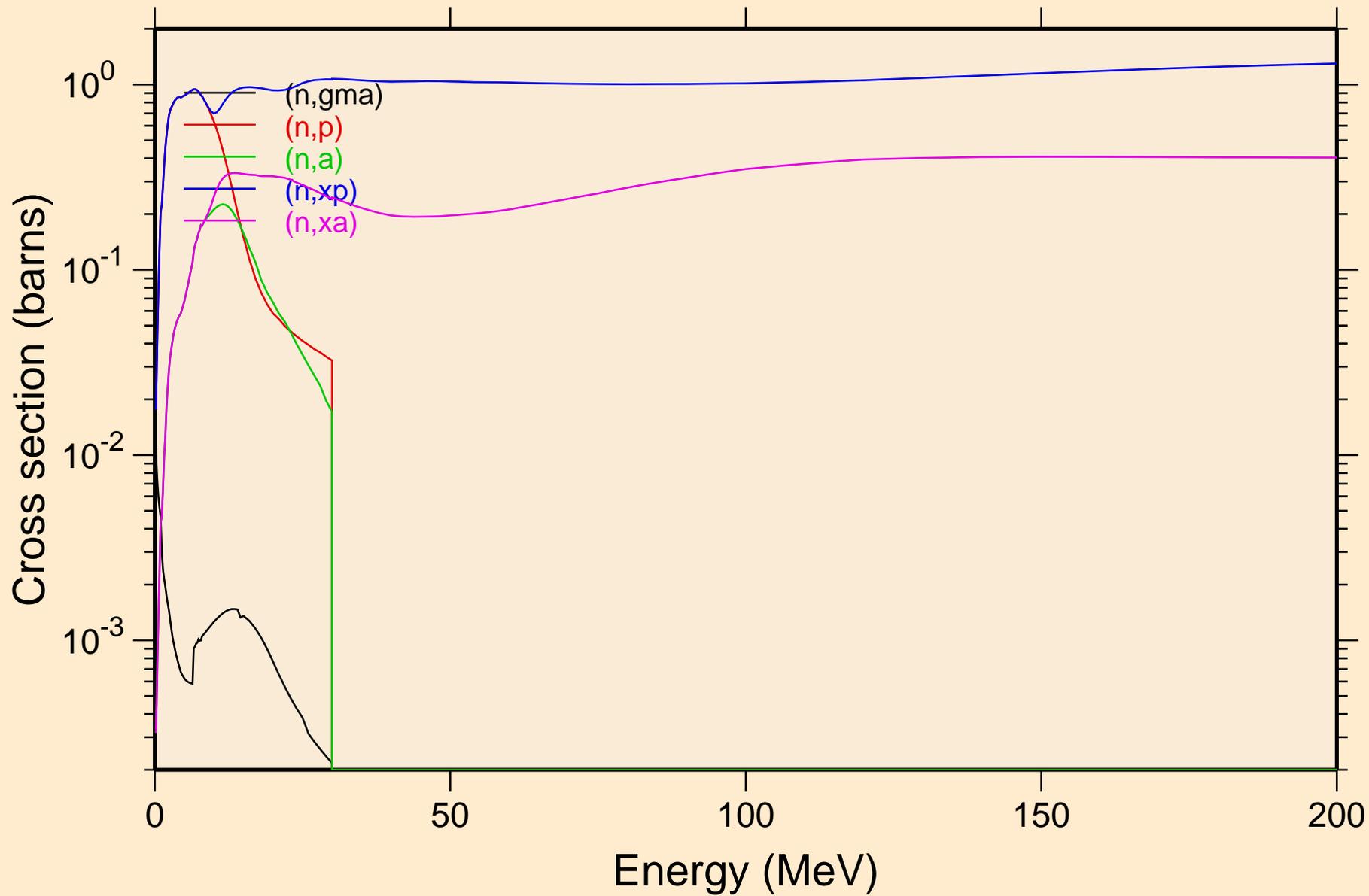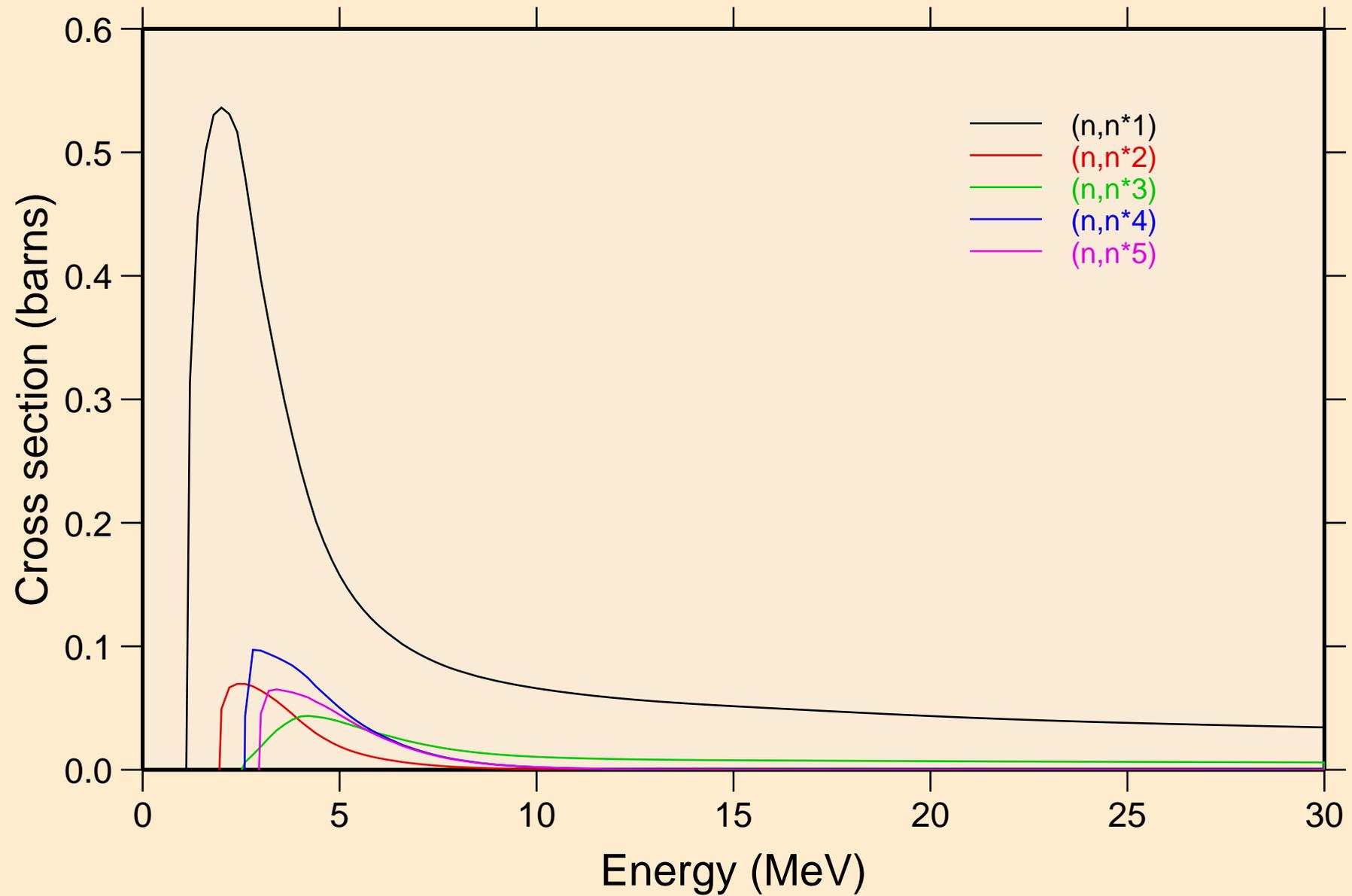TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Principal cross sections

- total
- absorption
- elastic
- gamma production

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Heating

heating

Heating (MeV/reaction)

Energy (MeV)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Damage

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Non-threshold reactions

(n,gma)
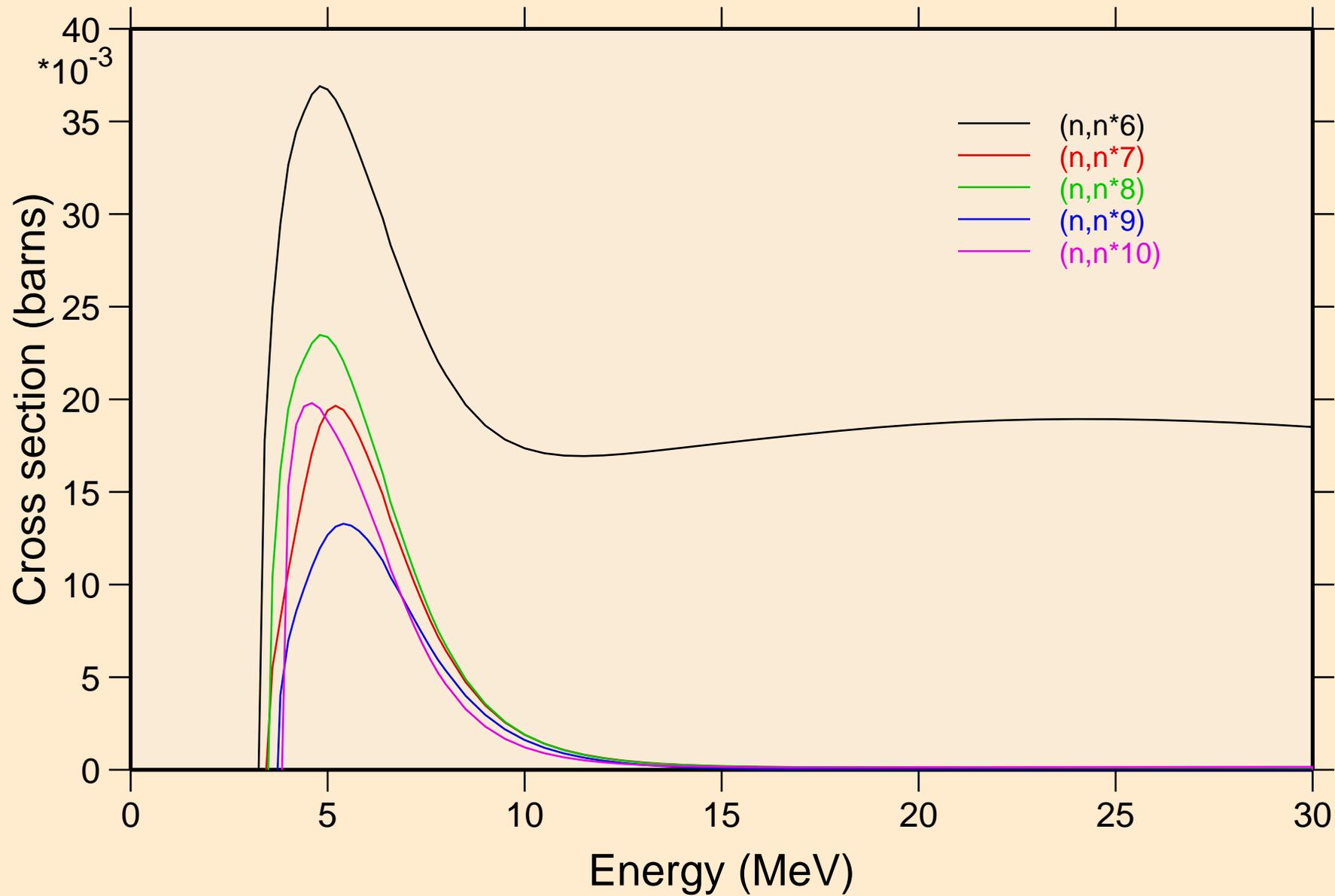(n,p)
(n,a)
(n,xp)
(n,xa)
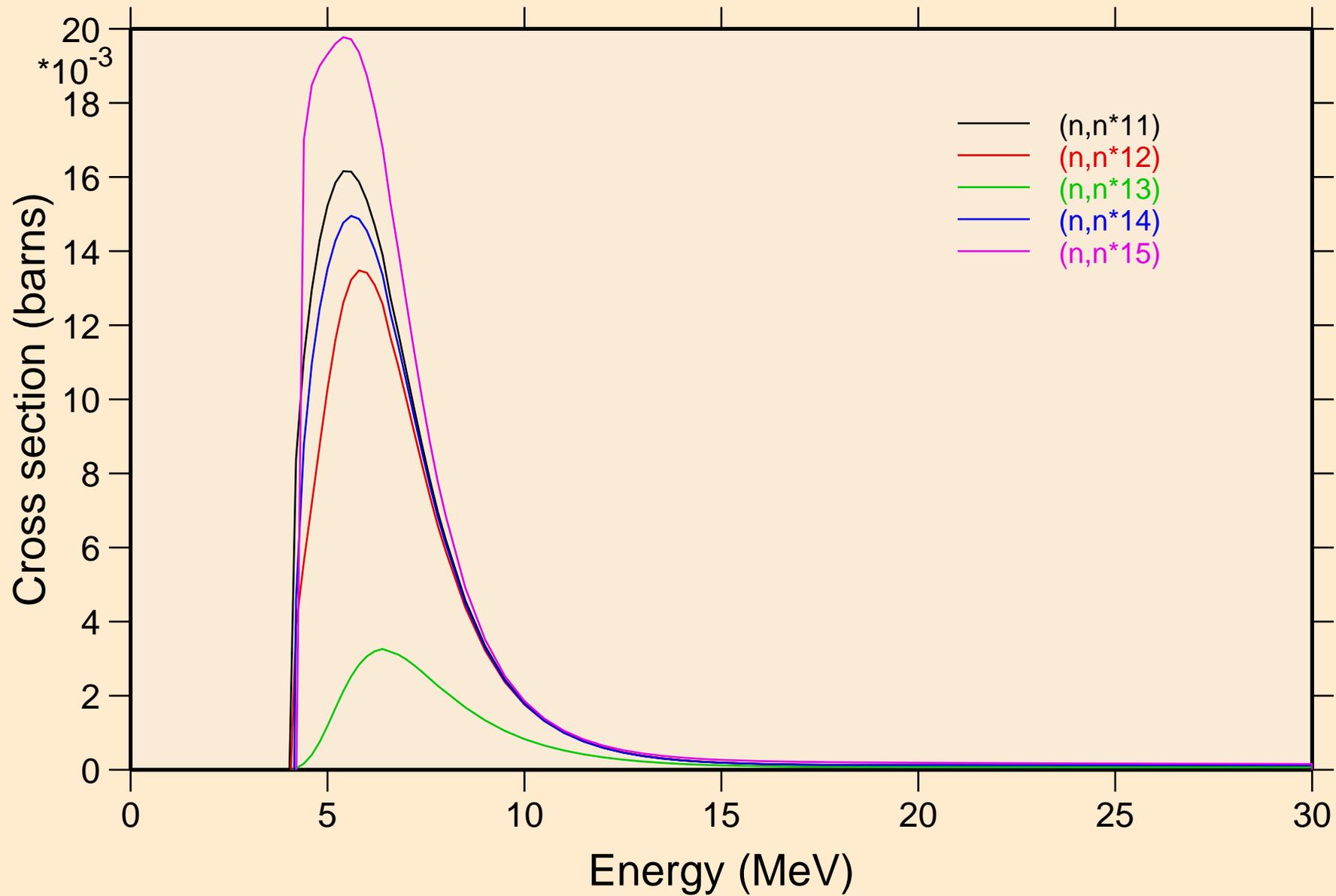
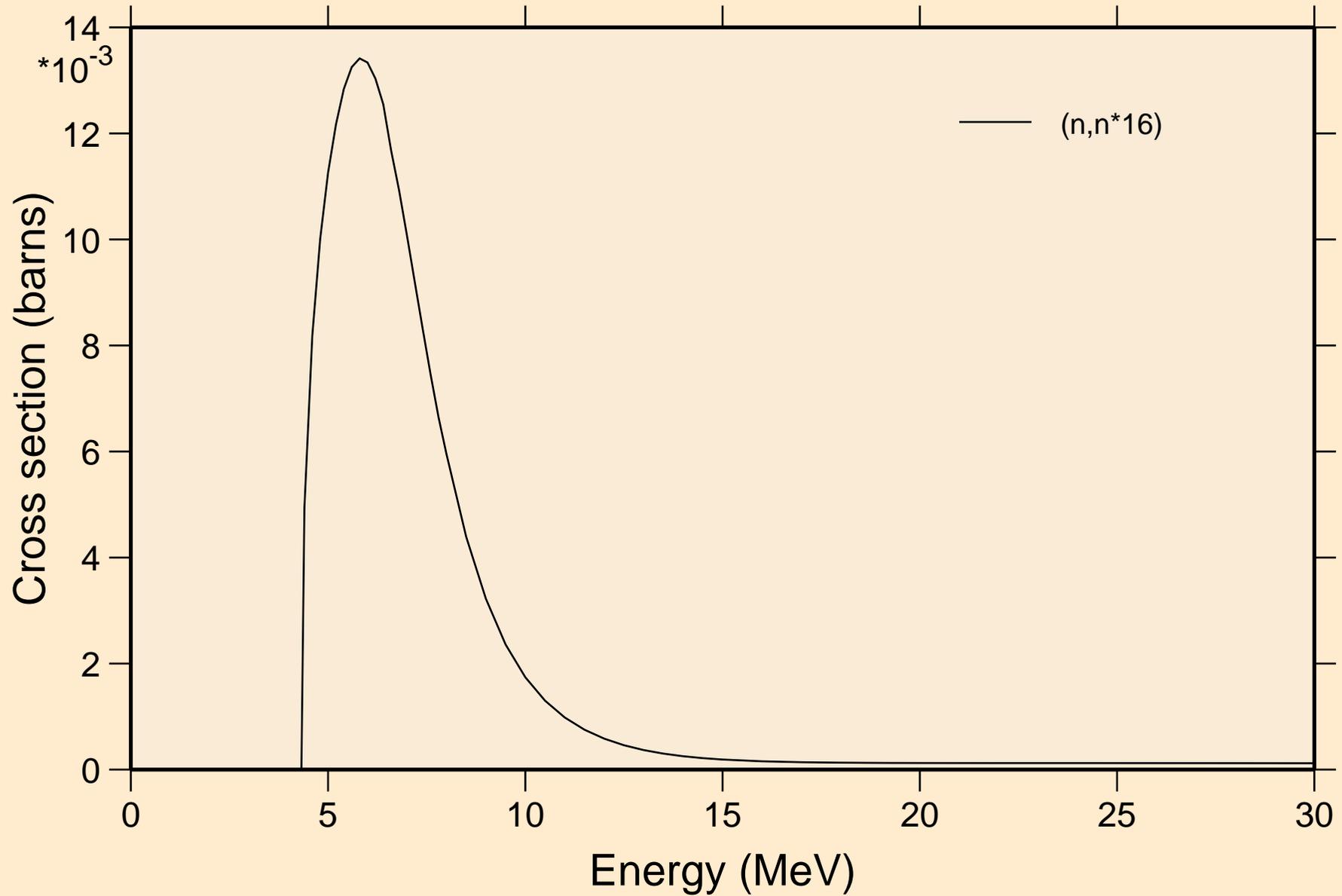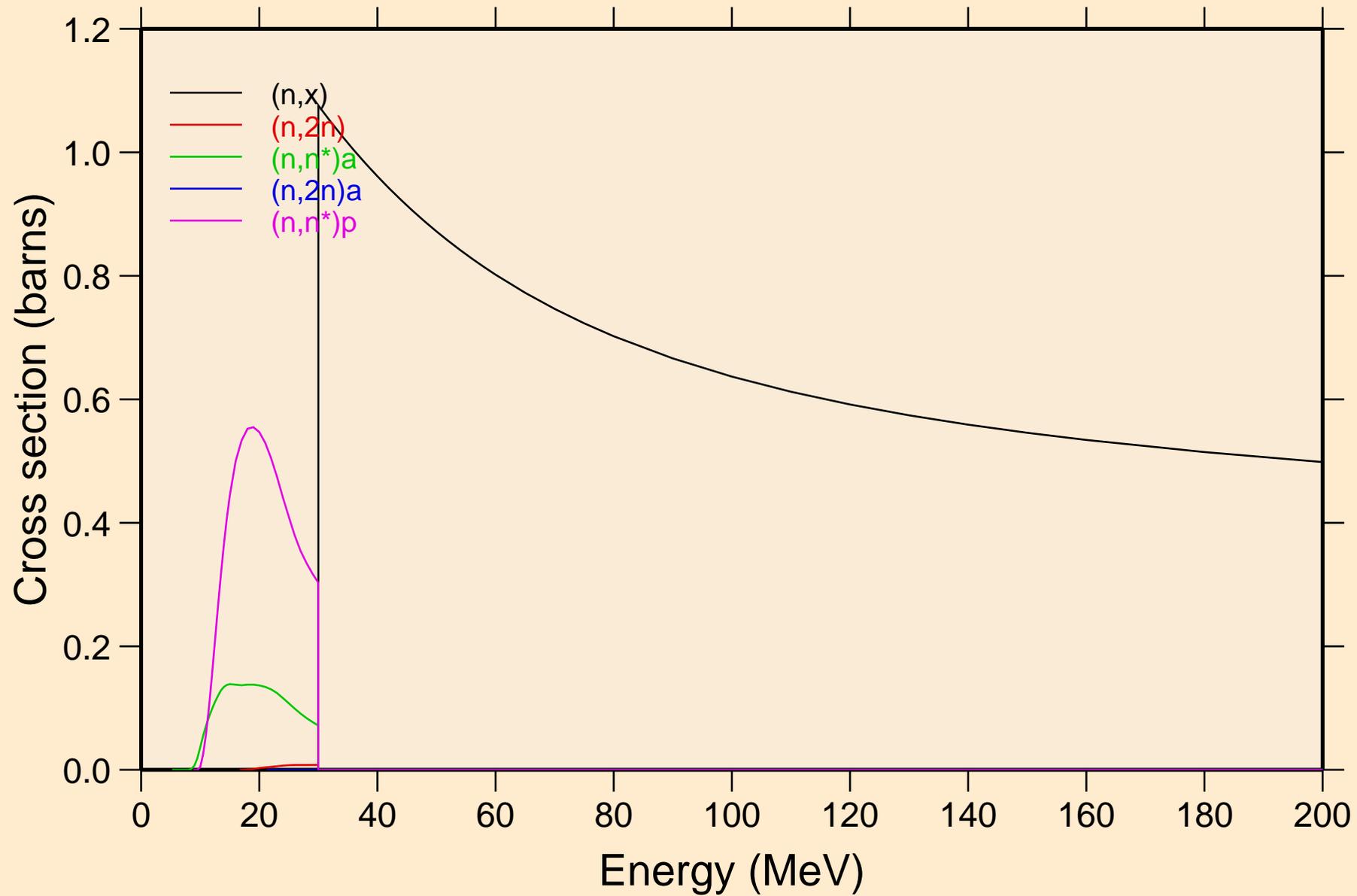Cross section (barns)

Energy (MeV)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Inelastic levels

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Inelastic levels

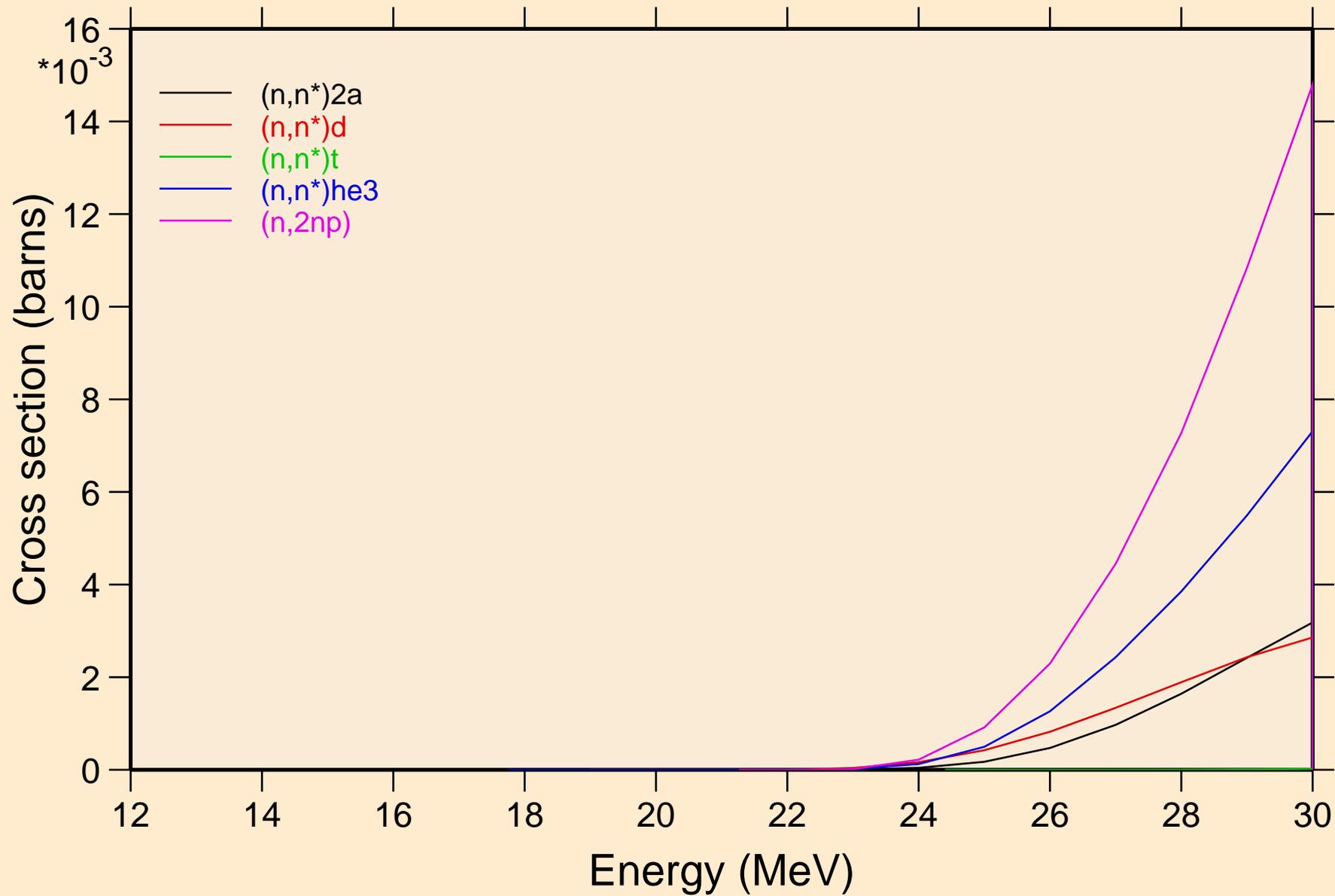TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Inelastic levels

Legend:
(n,n*11)
(n,n*12)
(n,n*13)
(n,n*14)
(n,n*15)

Y-axis: Cross section (barns) *10^{-3}
X-axis: Energy (MeV)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Inelastic levels

(n,n*16)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Threshold reactions

Legend:
- (n,x)
- (n,2n)
- (n,n*)a
- (n,2n)a
- (n,n*)p

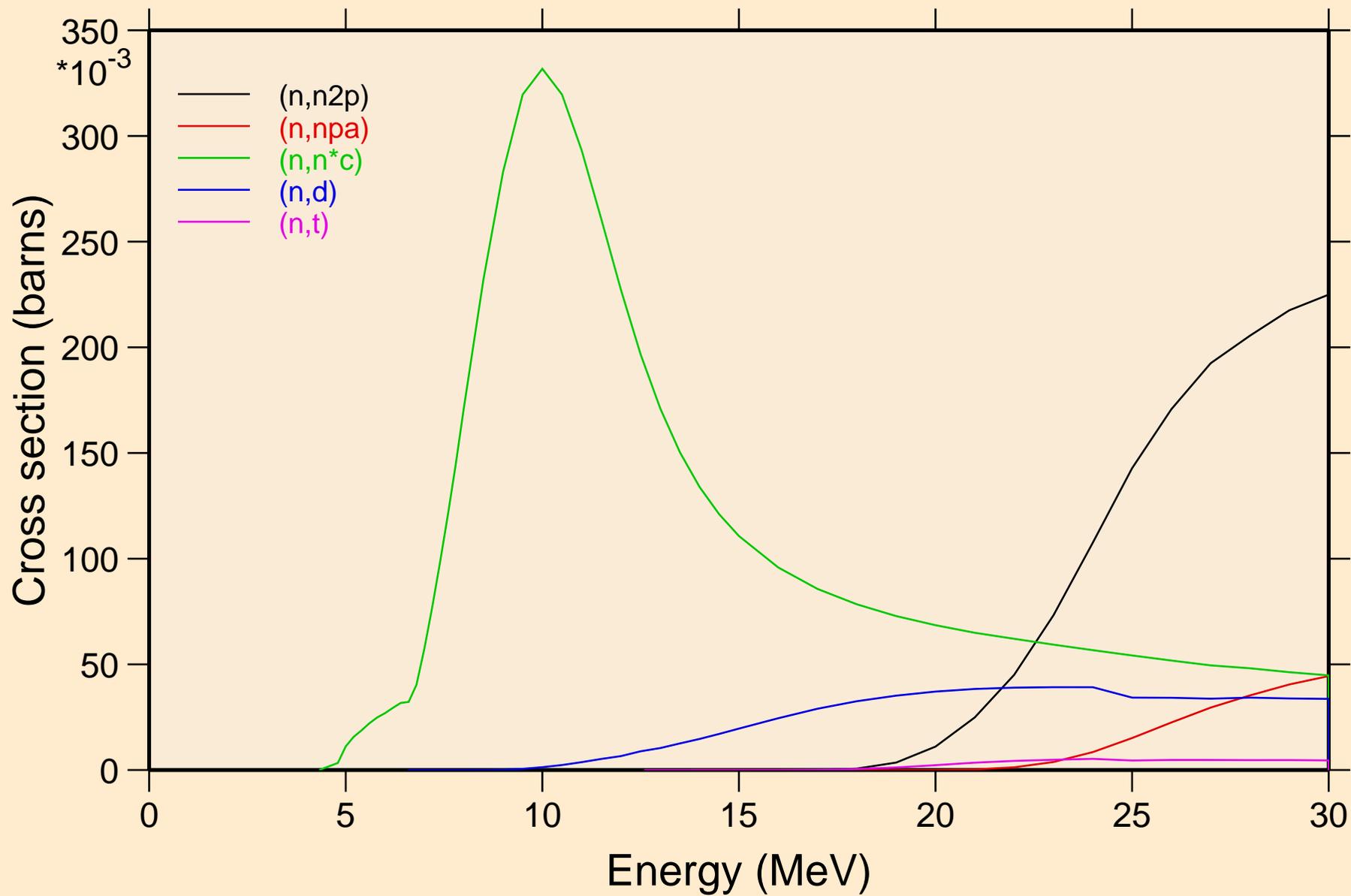X-axis: Energy (MeV)
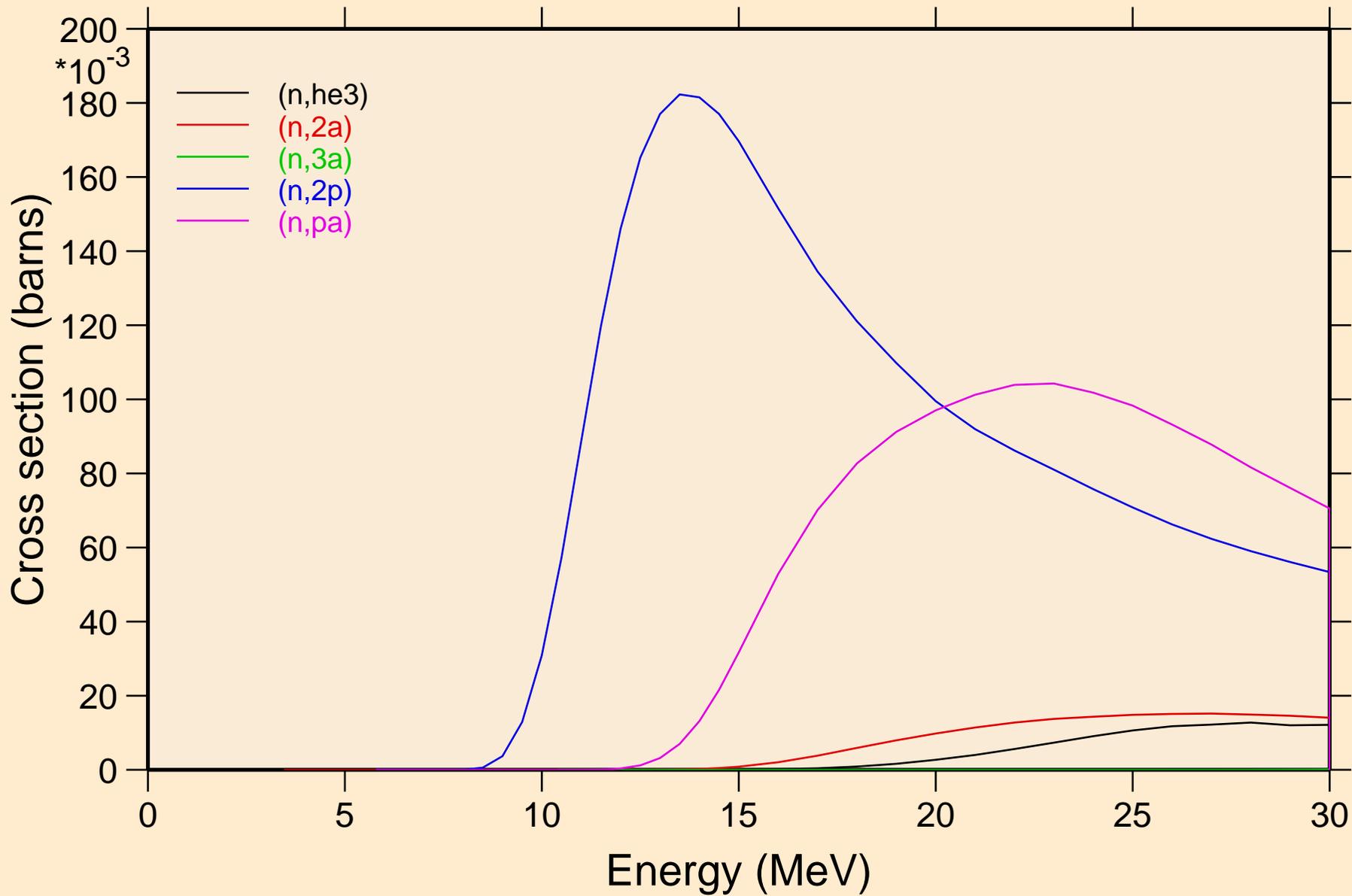Y-axis: Cross section (barns)
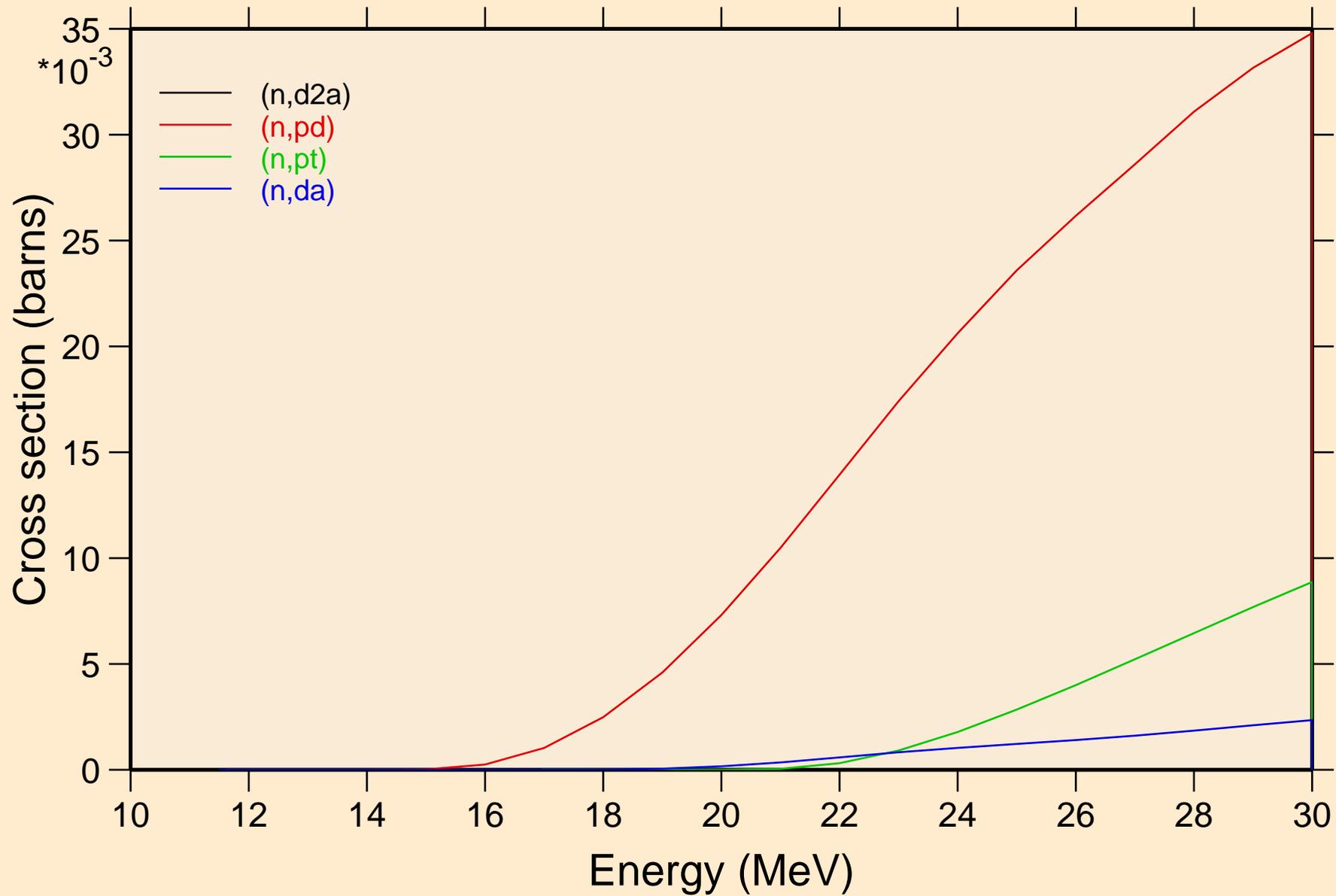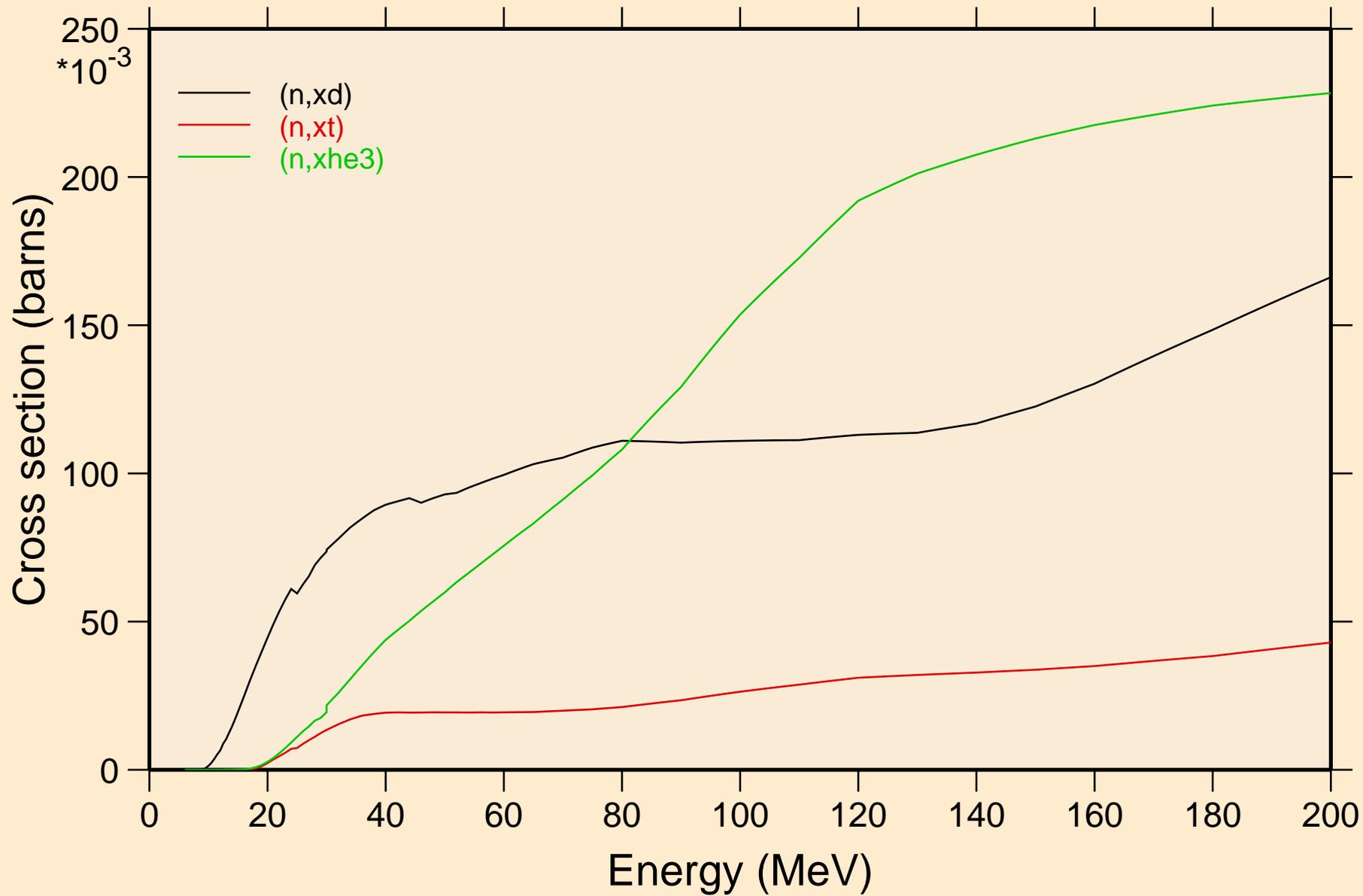
TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Threshold reactions

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Threshold reactions

Legend:
- (n,n2p) — black
- (n,npa) — red
- (n,n*c) — green
- (n,d) — blue
- (n,t) — magenta

Y-axis: Cross section (barns), ×10⁻³, range 0 to 350
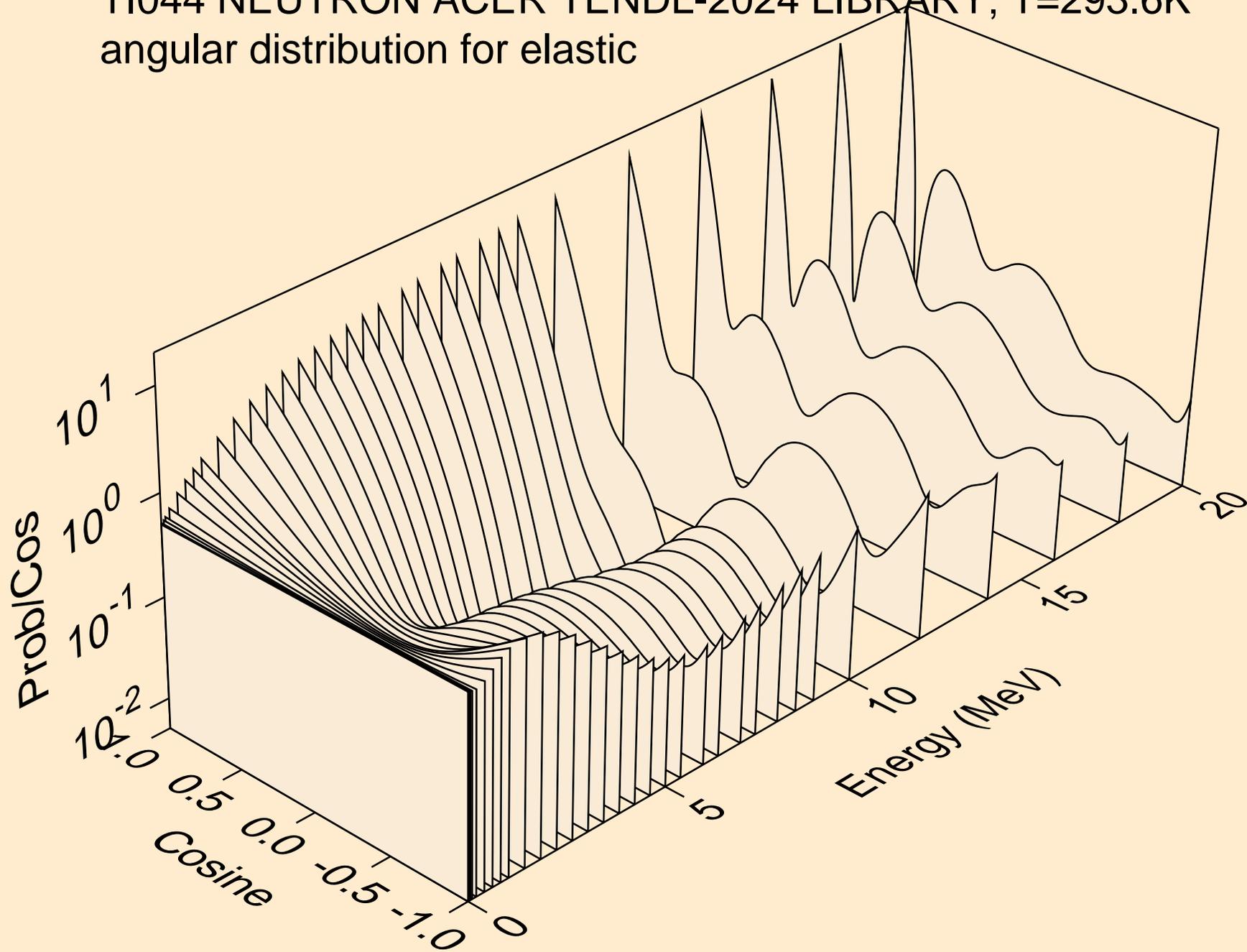X-axis: Energy (MeV), range 0 to 30

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Threshold reactions

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Threshold reactions

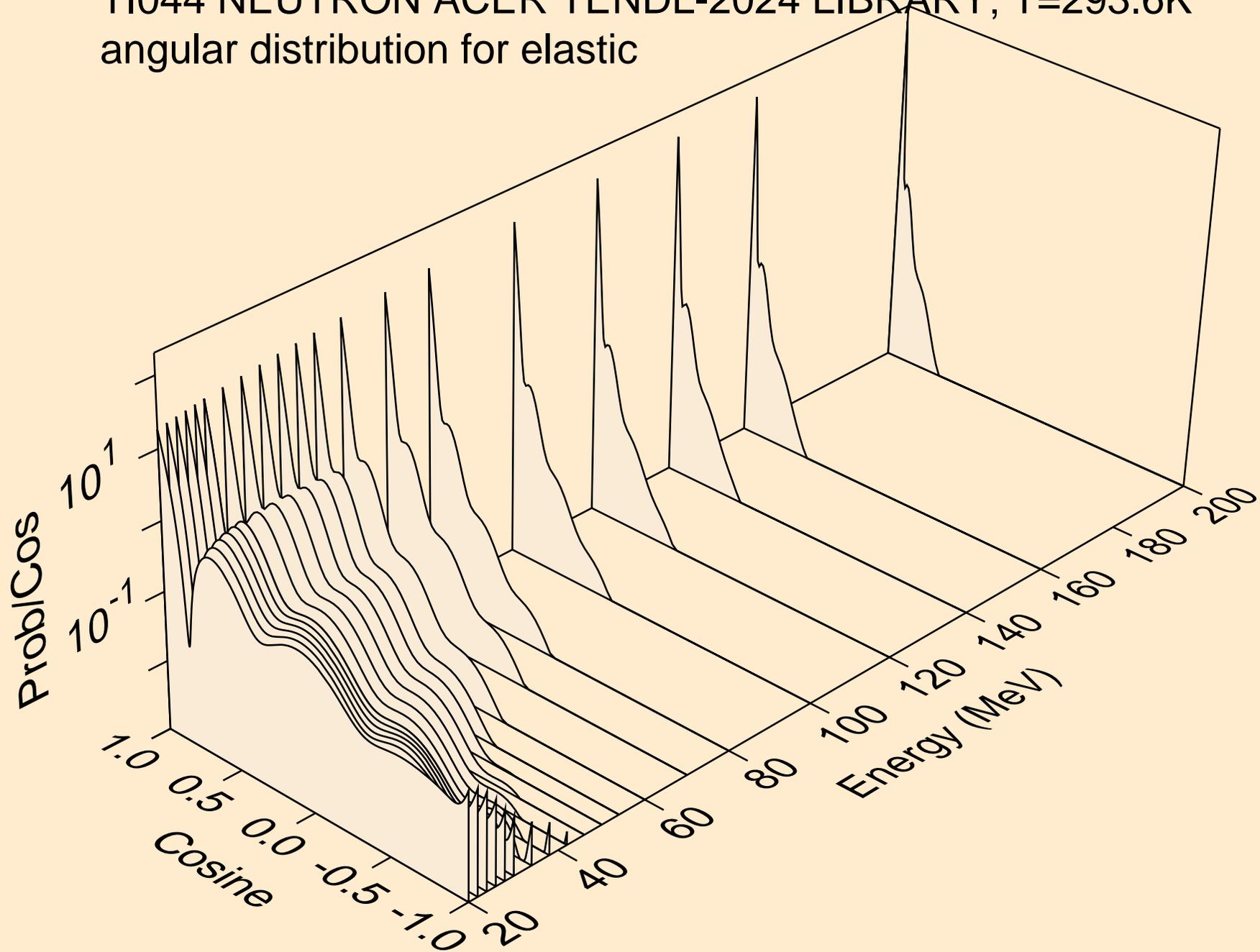TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
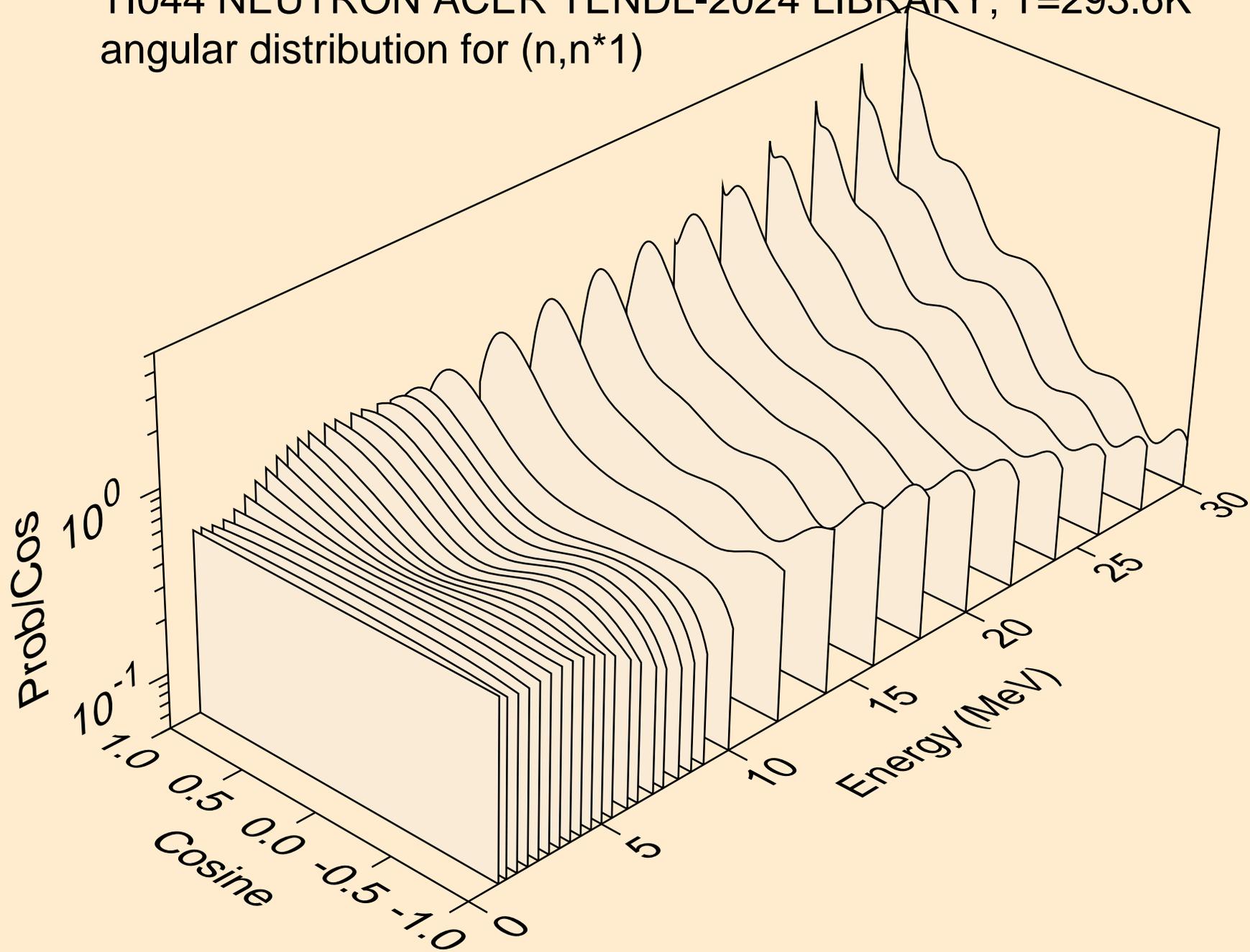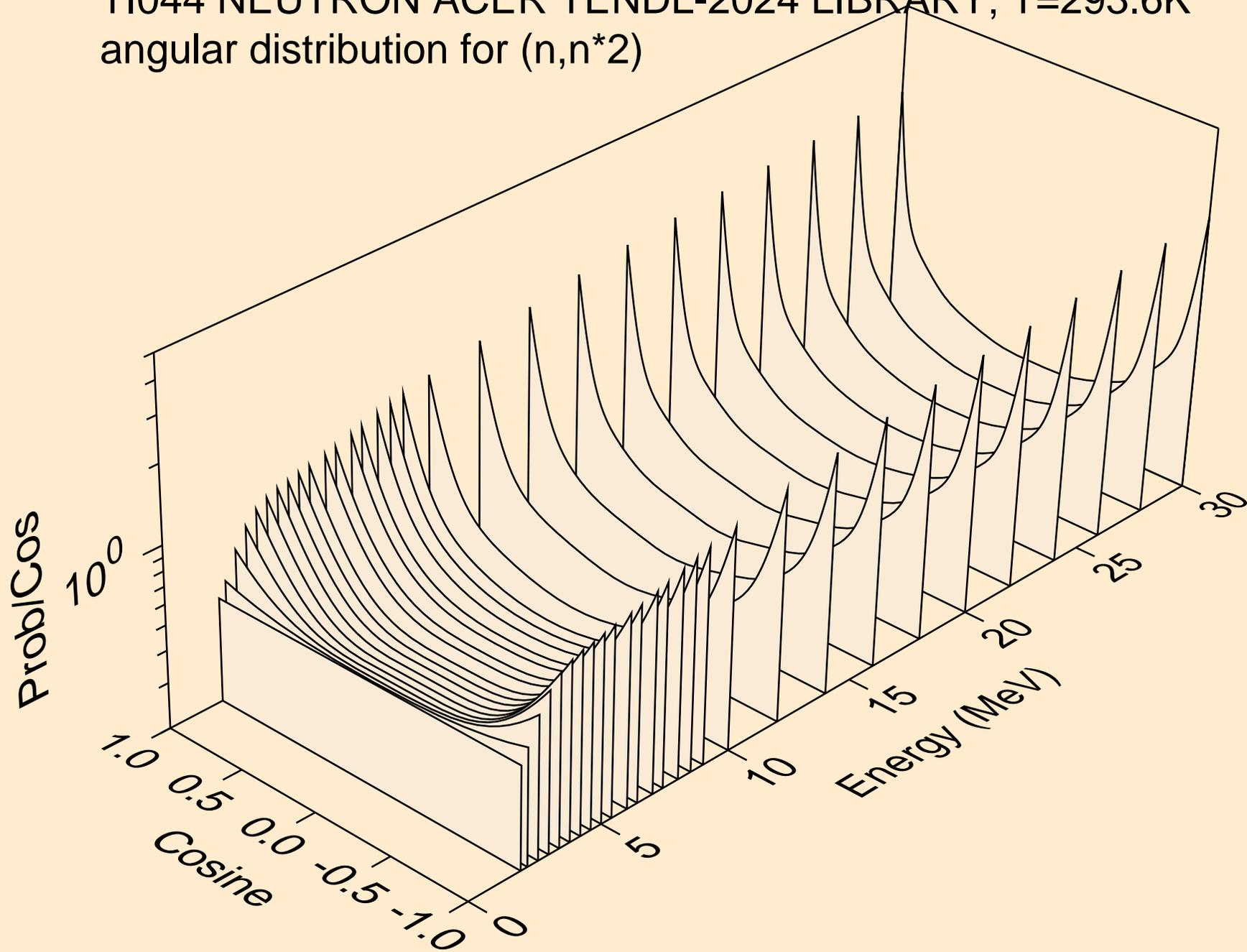Threshold reactions

(n,xd)
(n,xt)
(n,xhe3)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
angular distribution for elastic

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
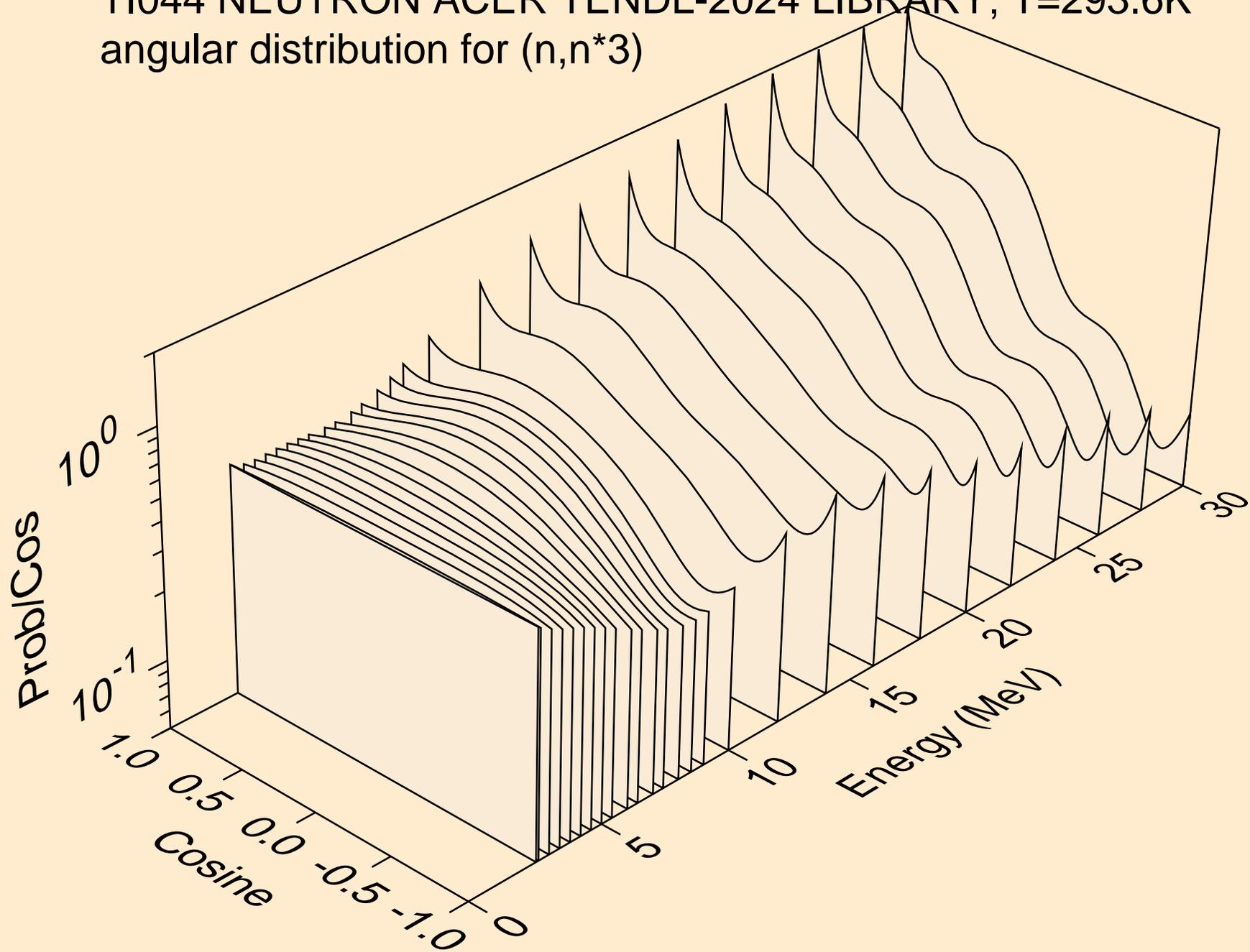angular distribution for elastic

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
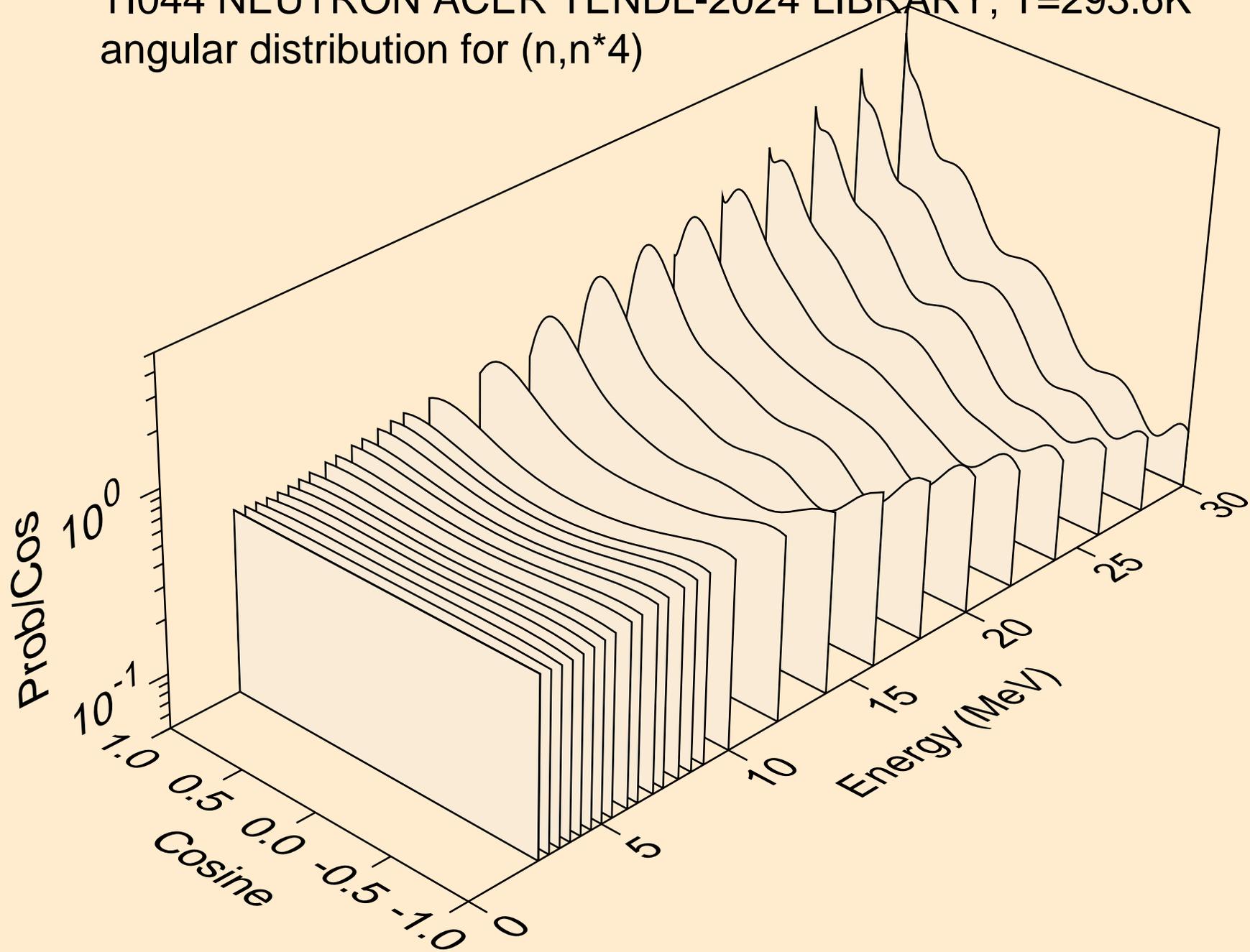angular distribution for (n,n*1)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
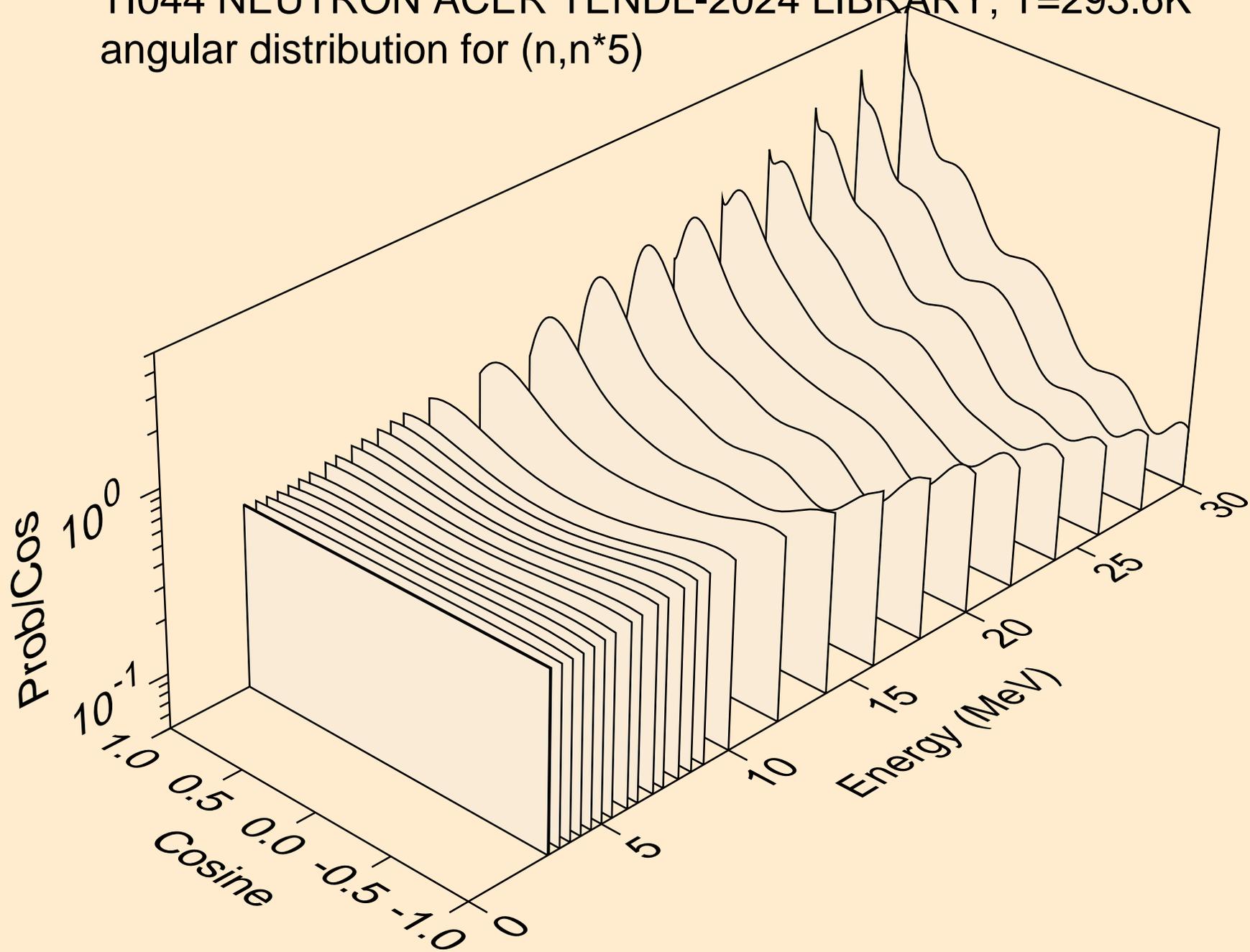angular distribution for (n,n*2)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
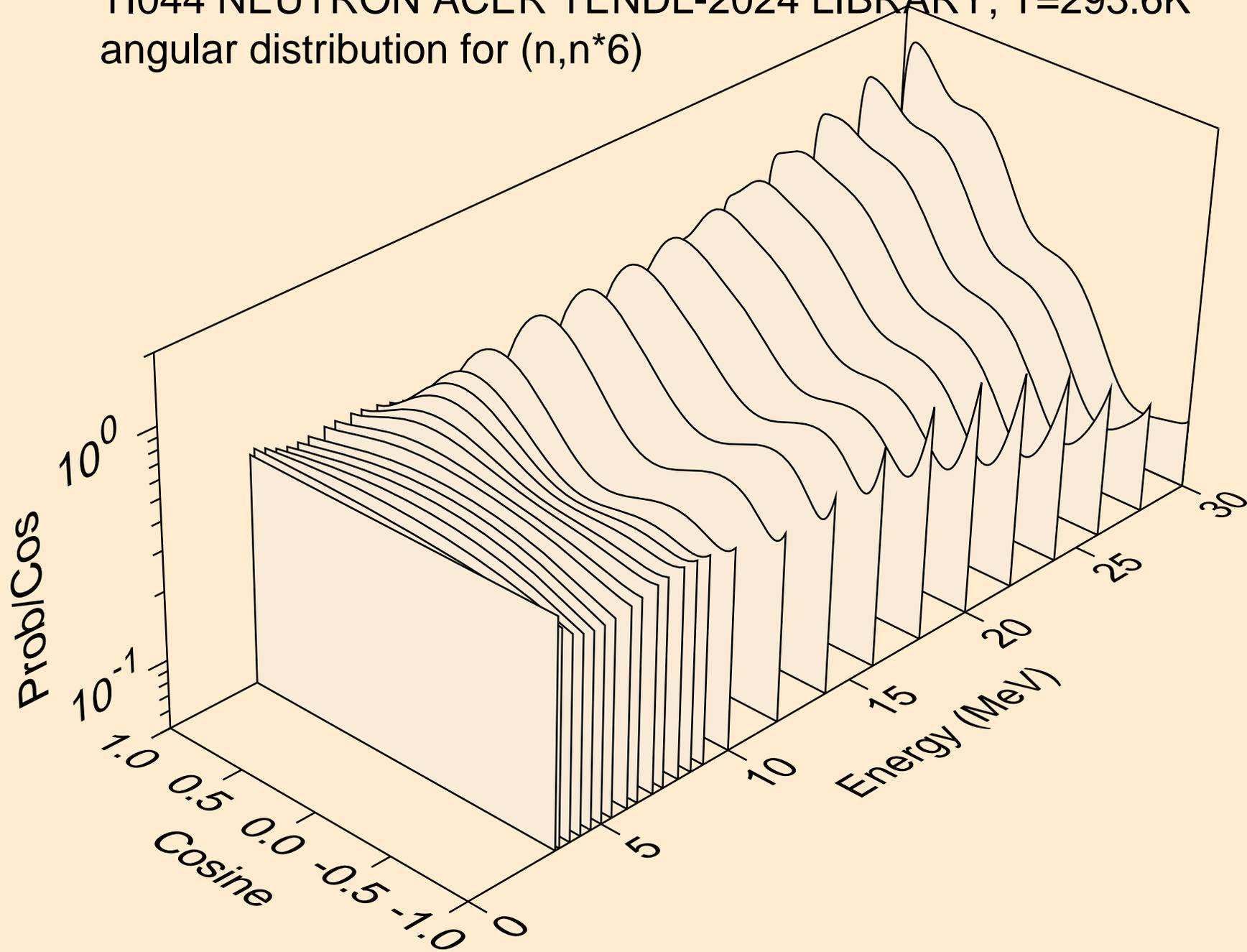angular distribution for (n,n*3)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
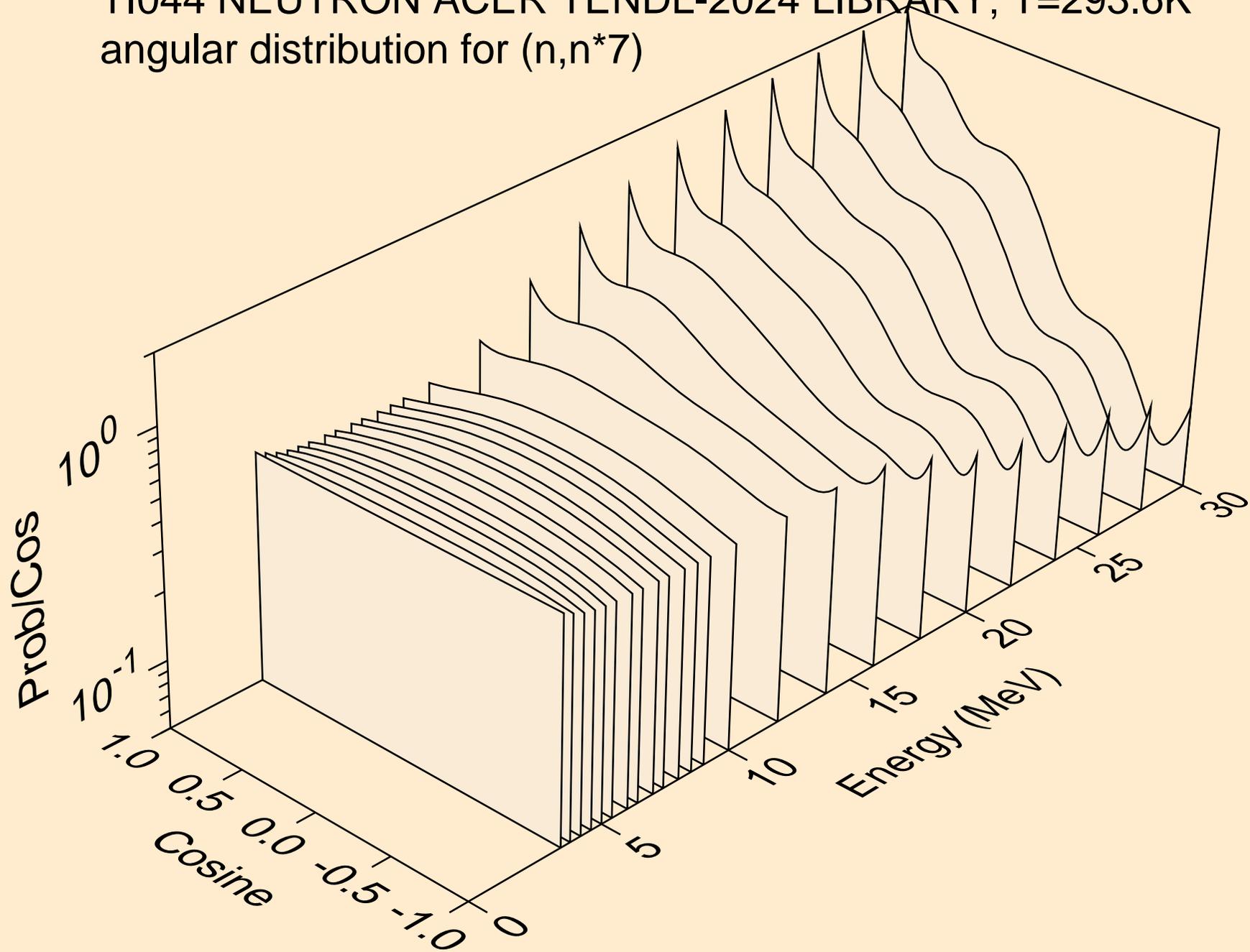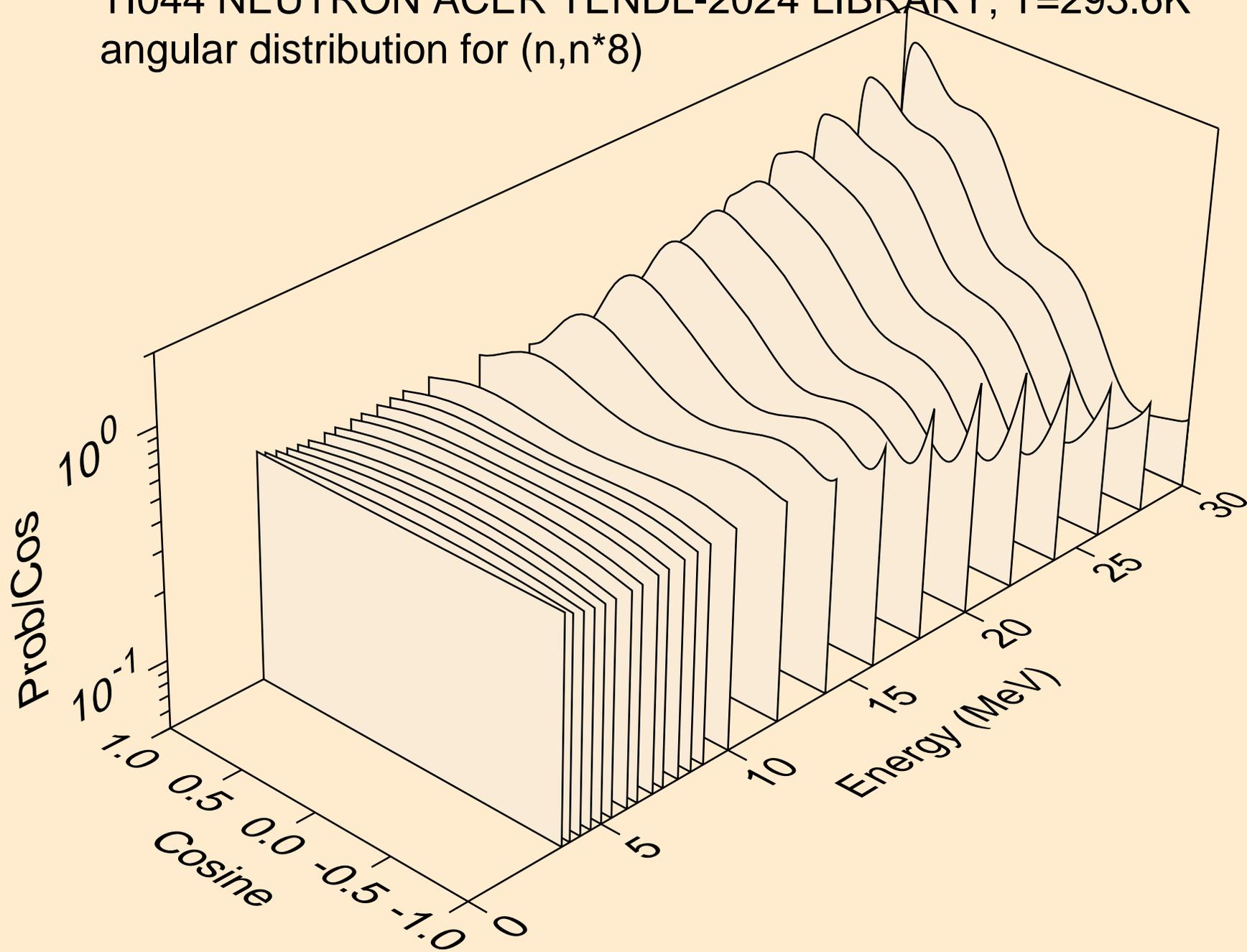angular distribution for (n,n*4)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
angular distribution for (n,n*5)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
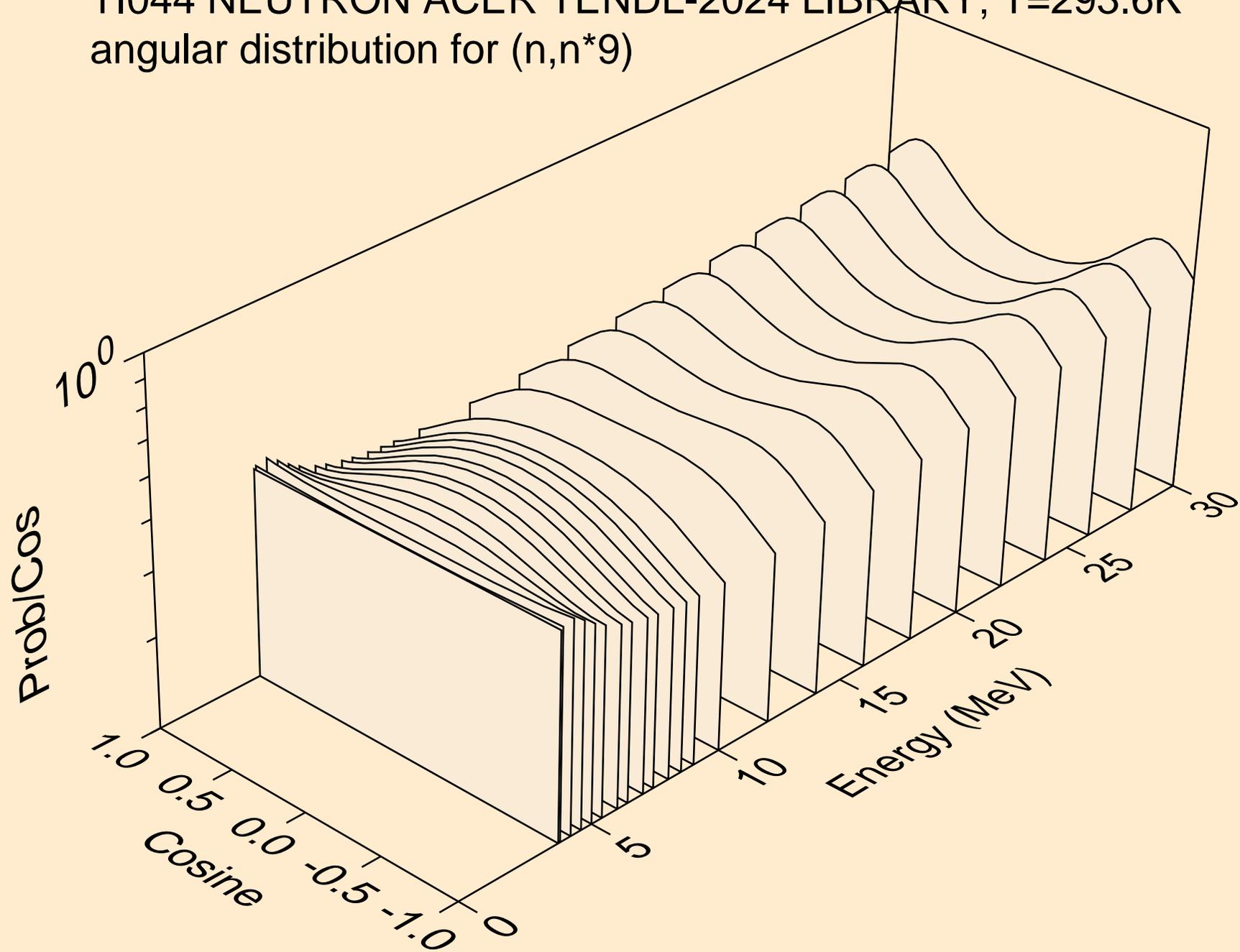angular distribution for (n,n*6)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
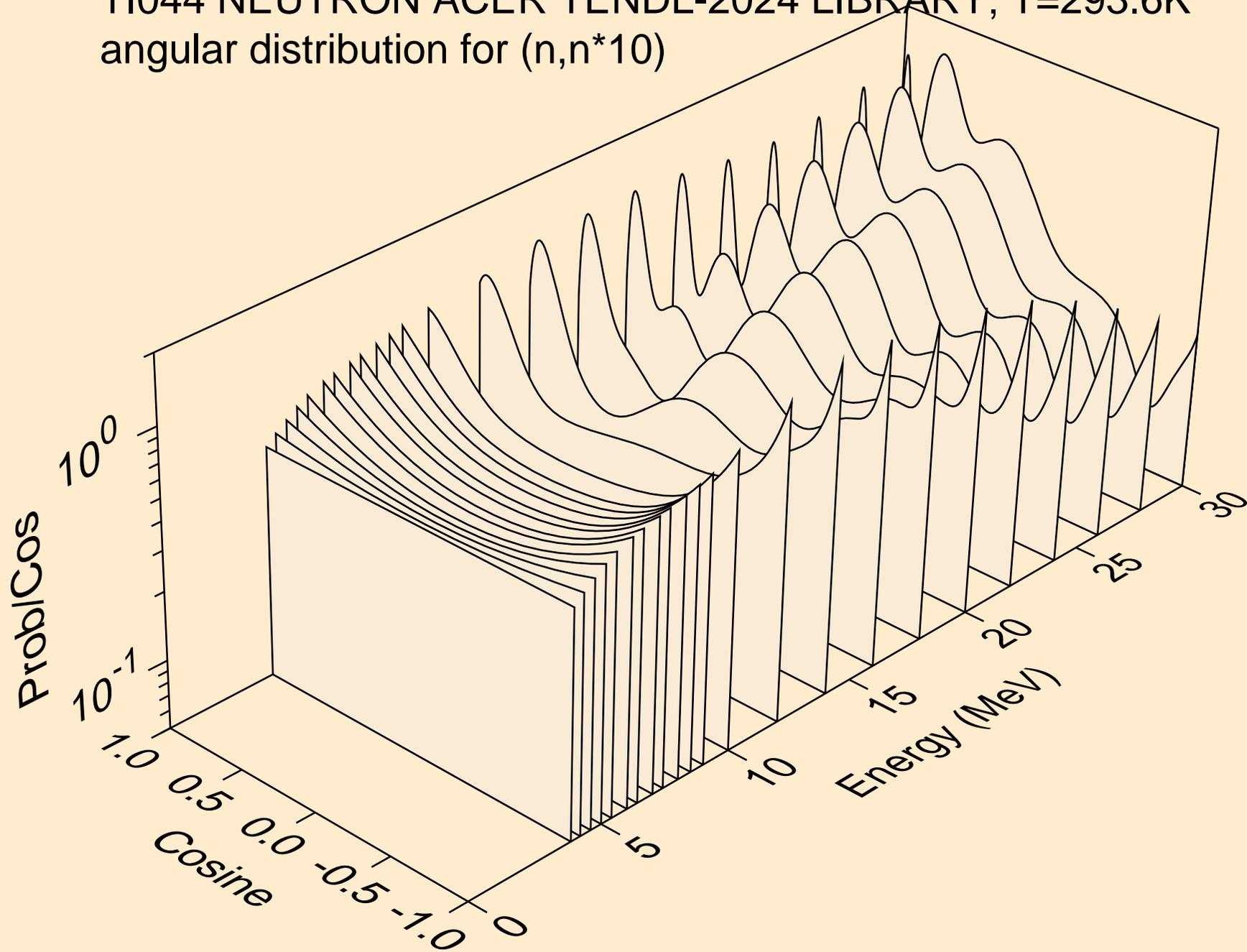angular distribution for (n,n*7)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
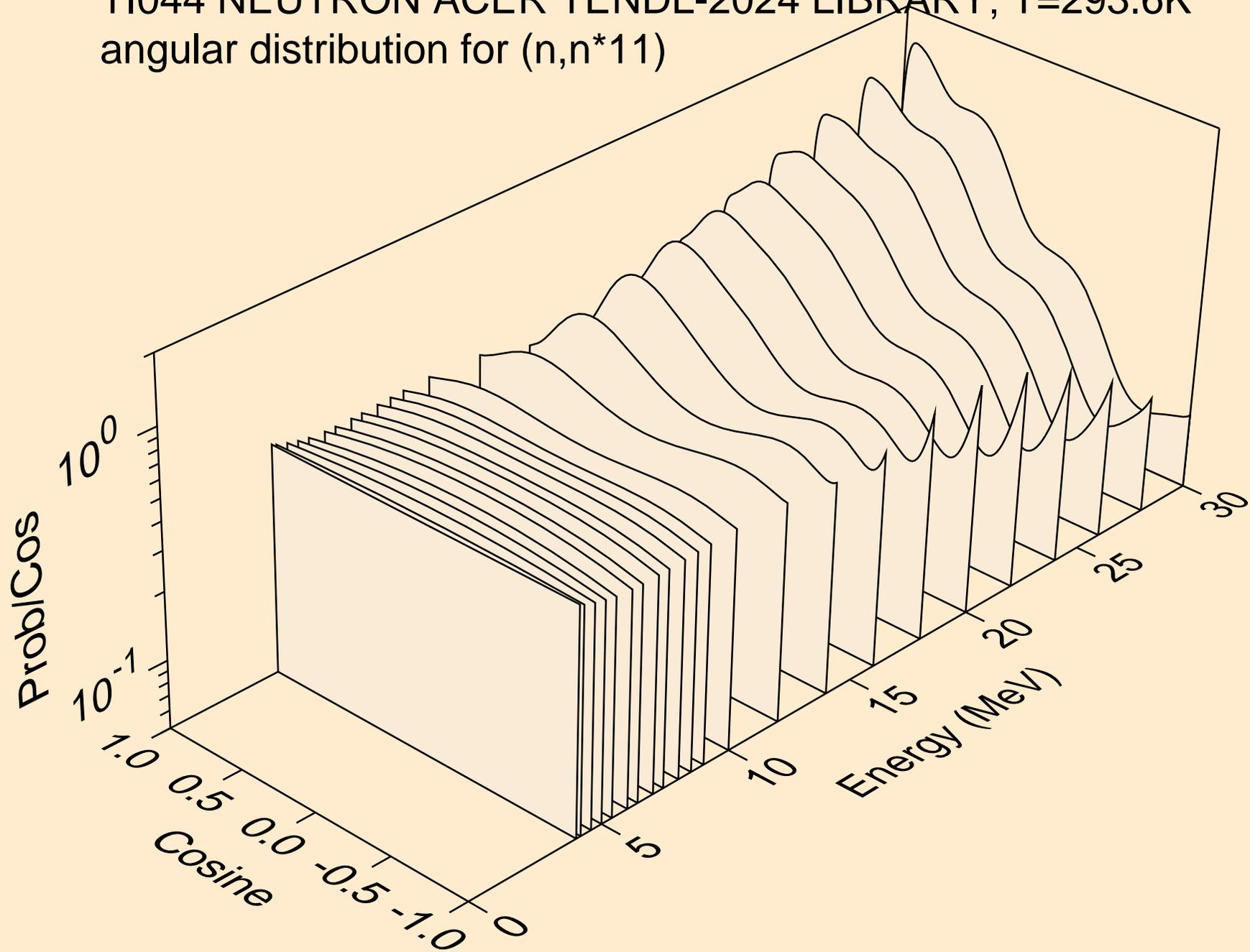angular distribution for (n,n*8)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
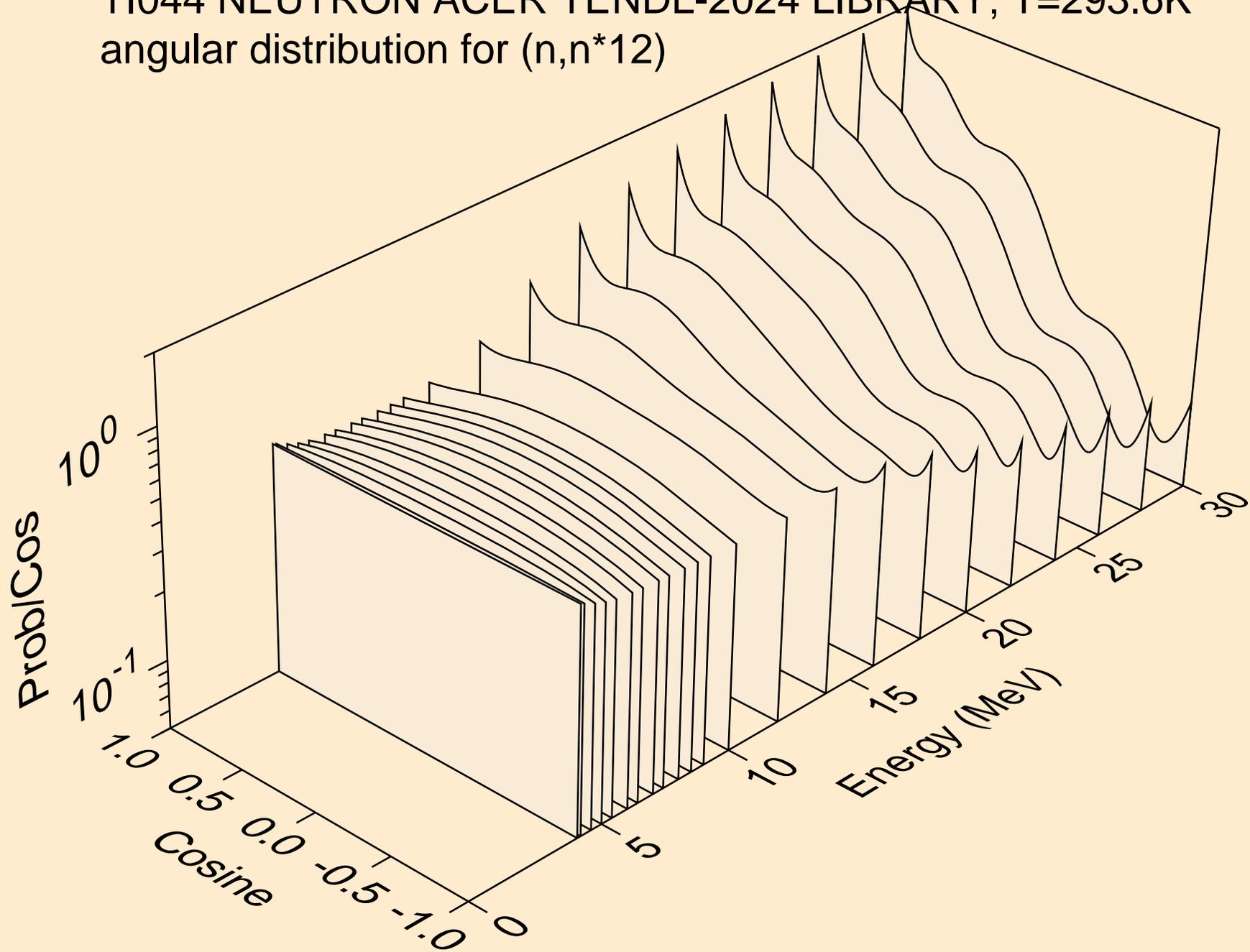angular distribution for (n,n*9)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
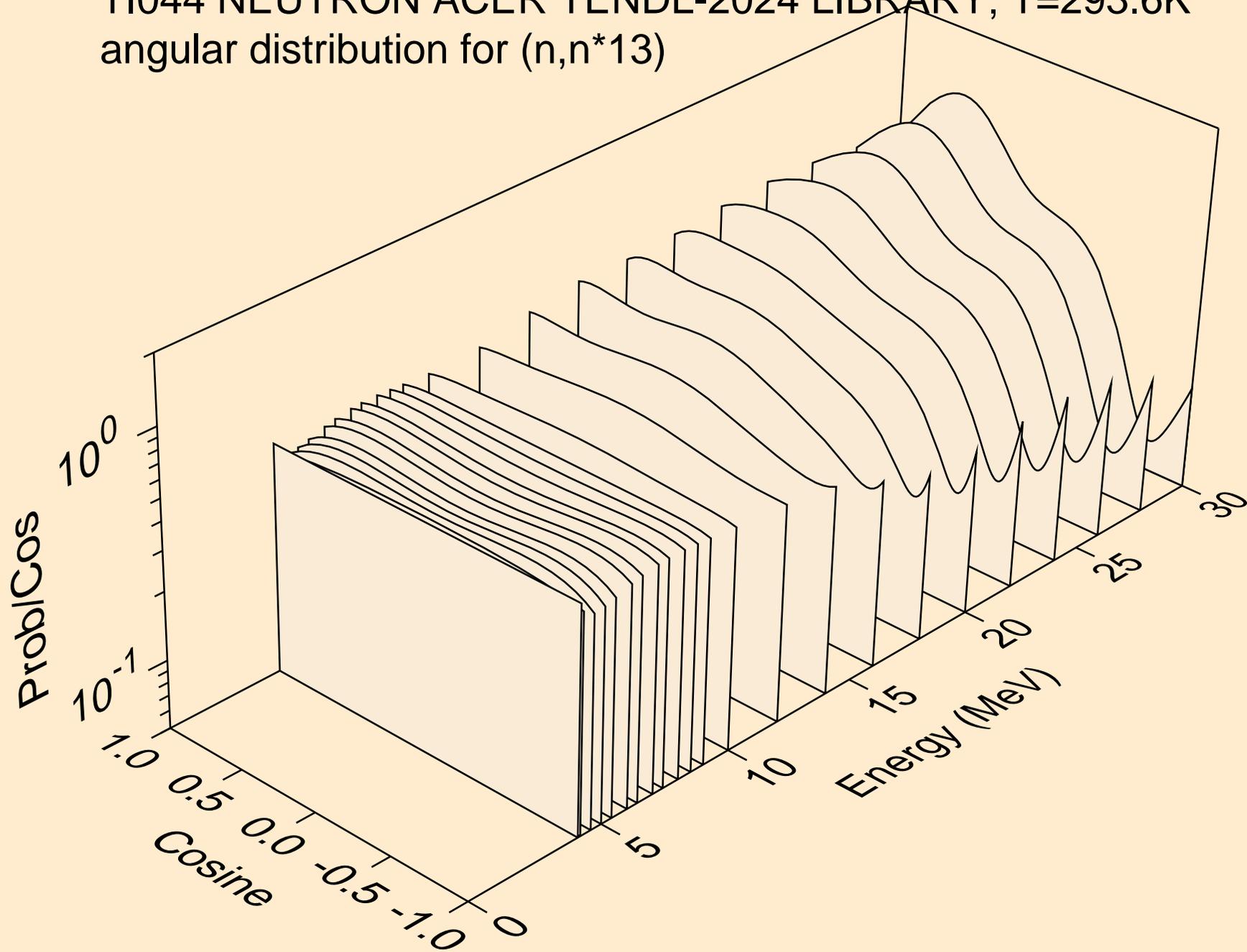angular distribution for (n,n*10)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
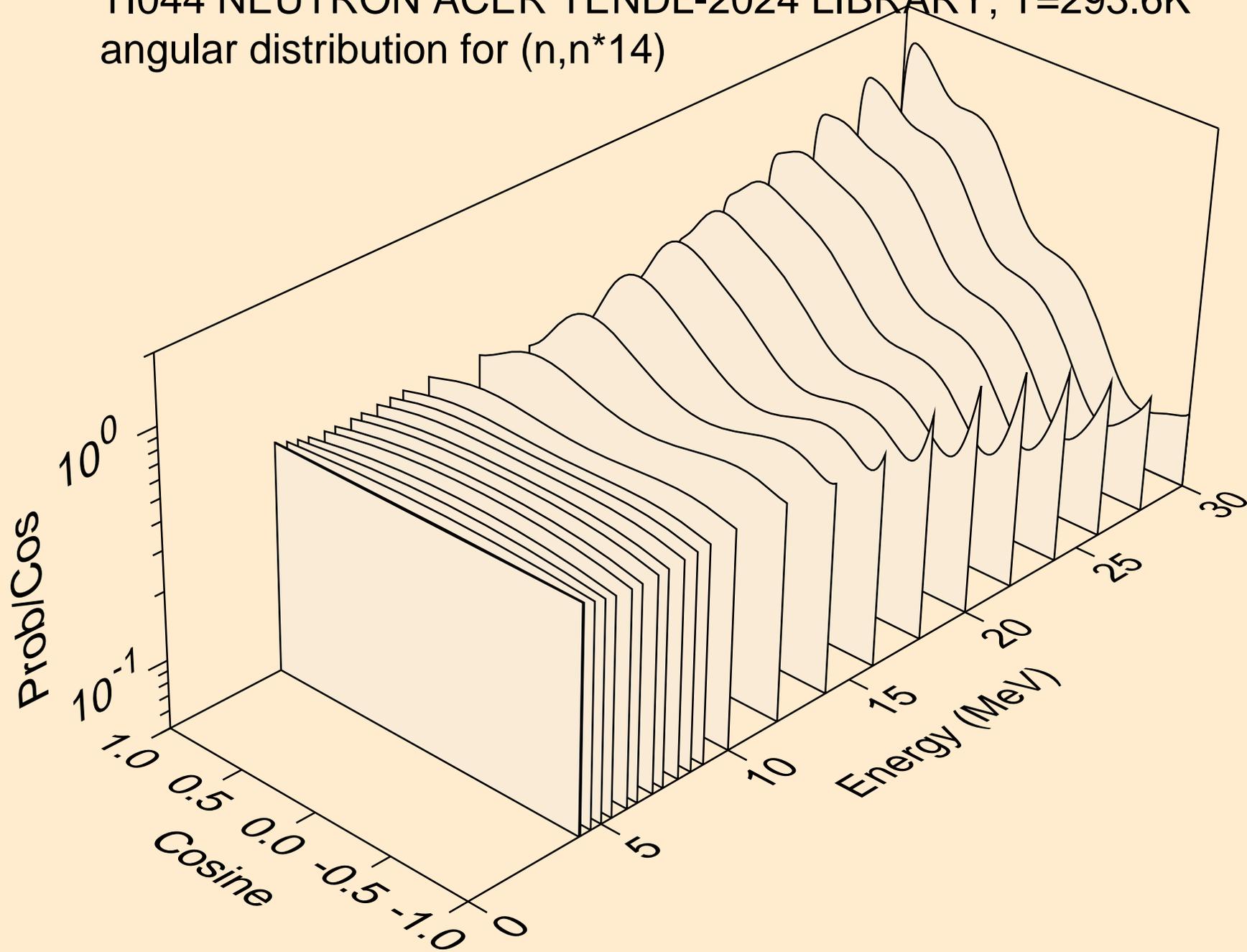angular distribution for (n,n*11)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
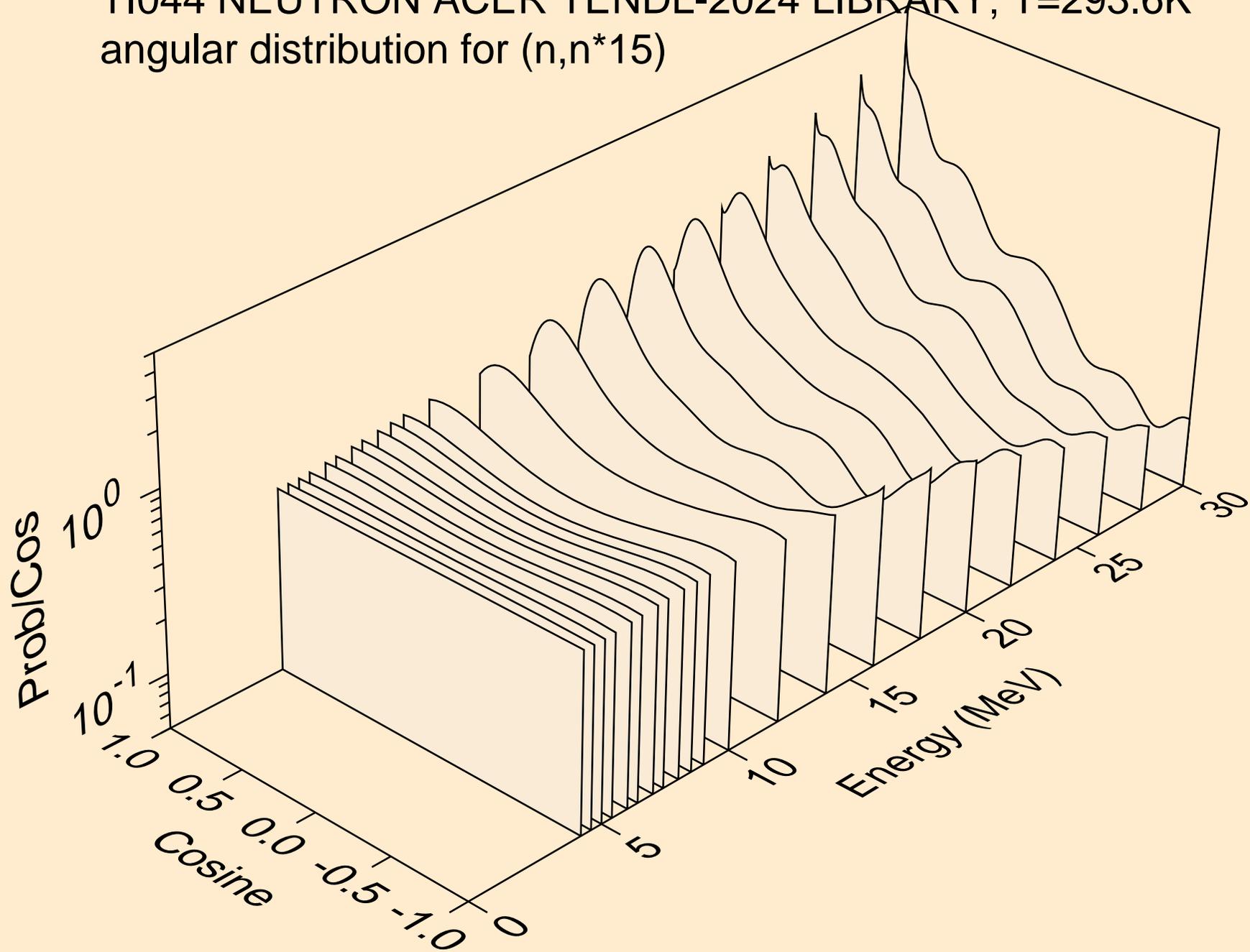angular distribution for (n,n*12)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
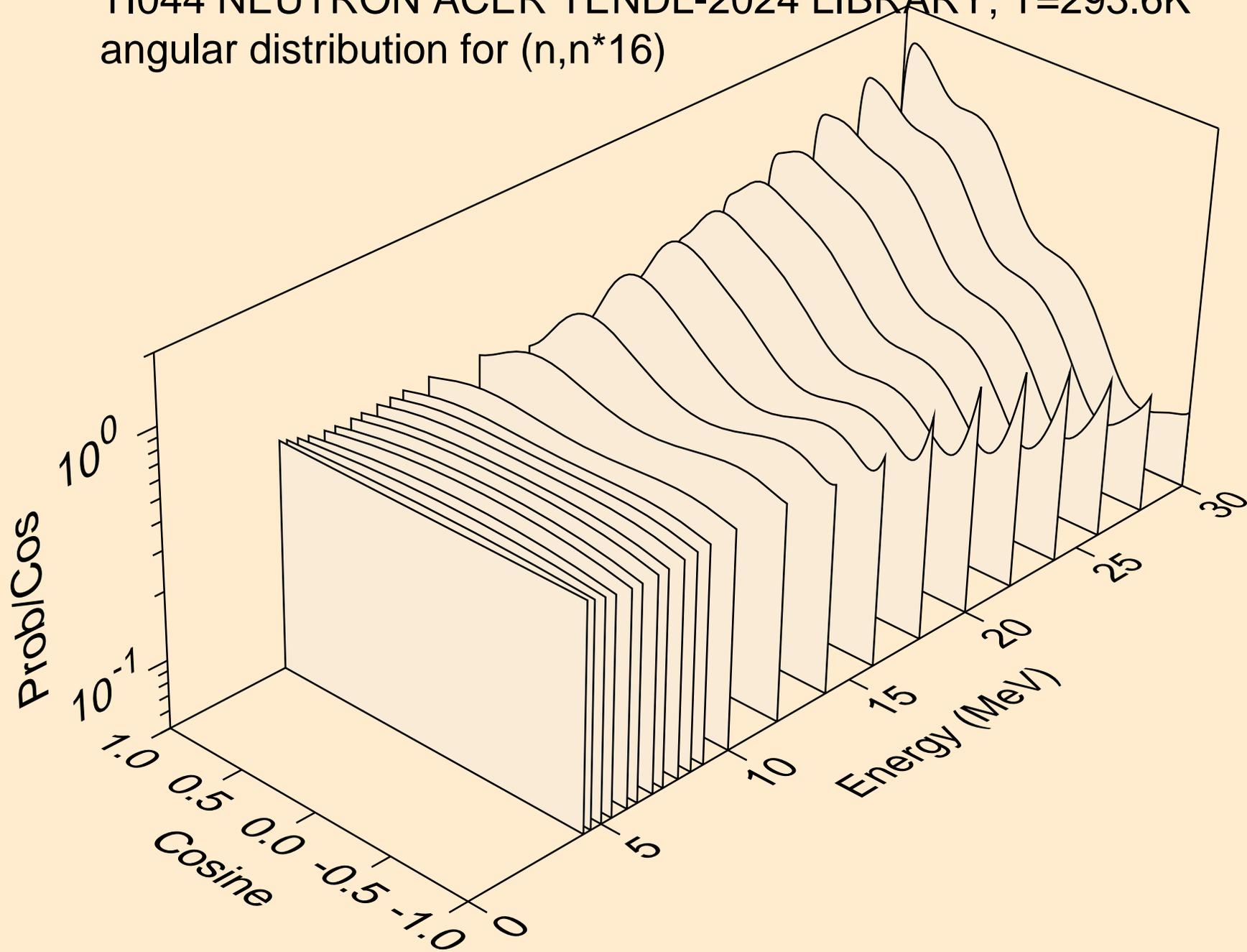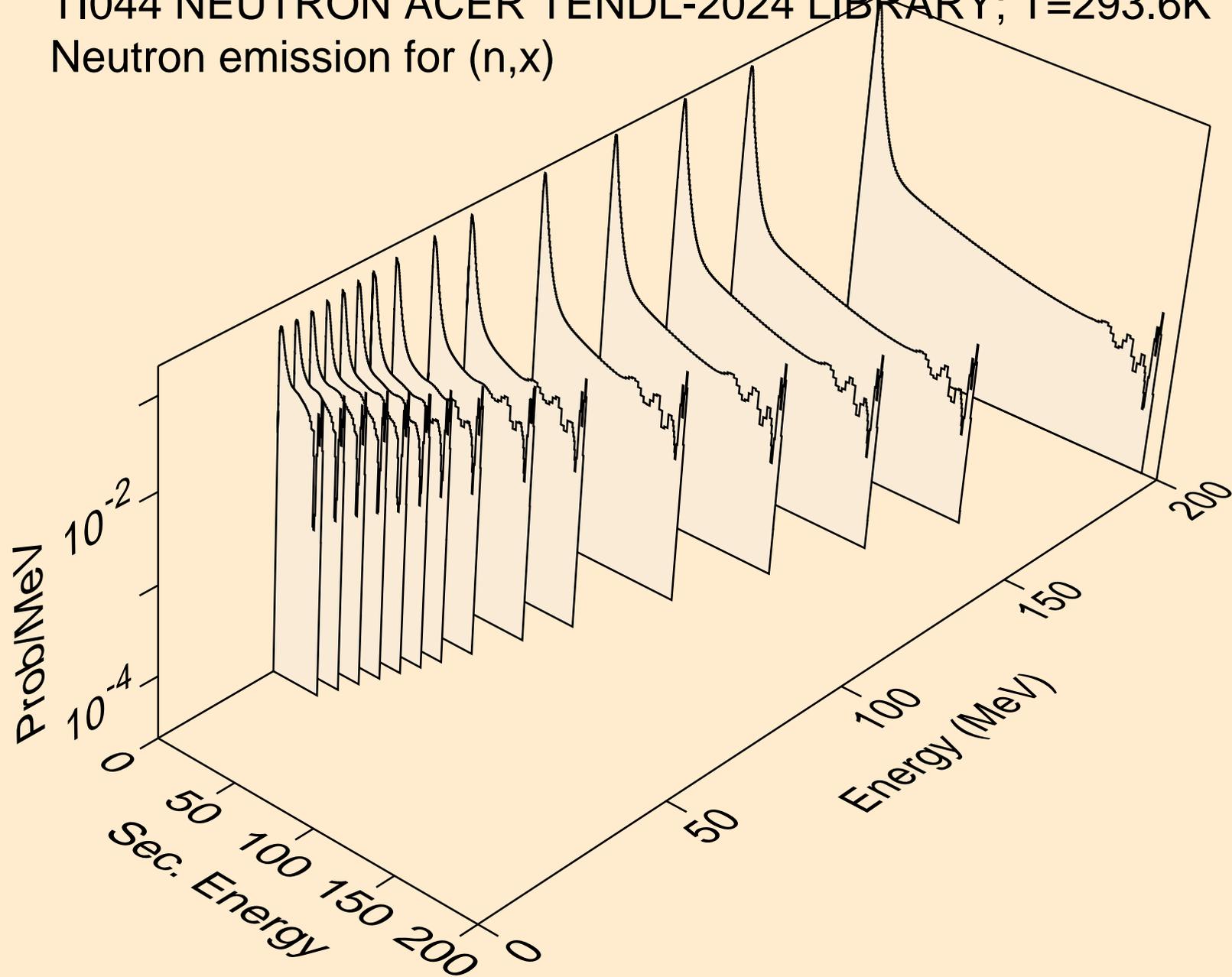angular distribution for (n,n*13)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
angular distribution for (n,n*14)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
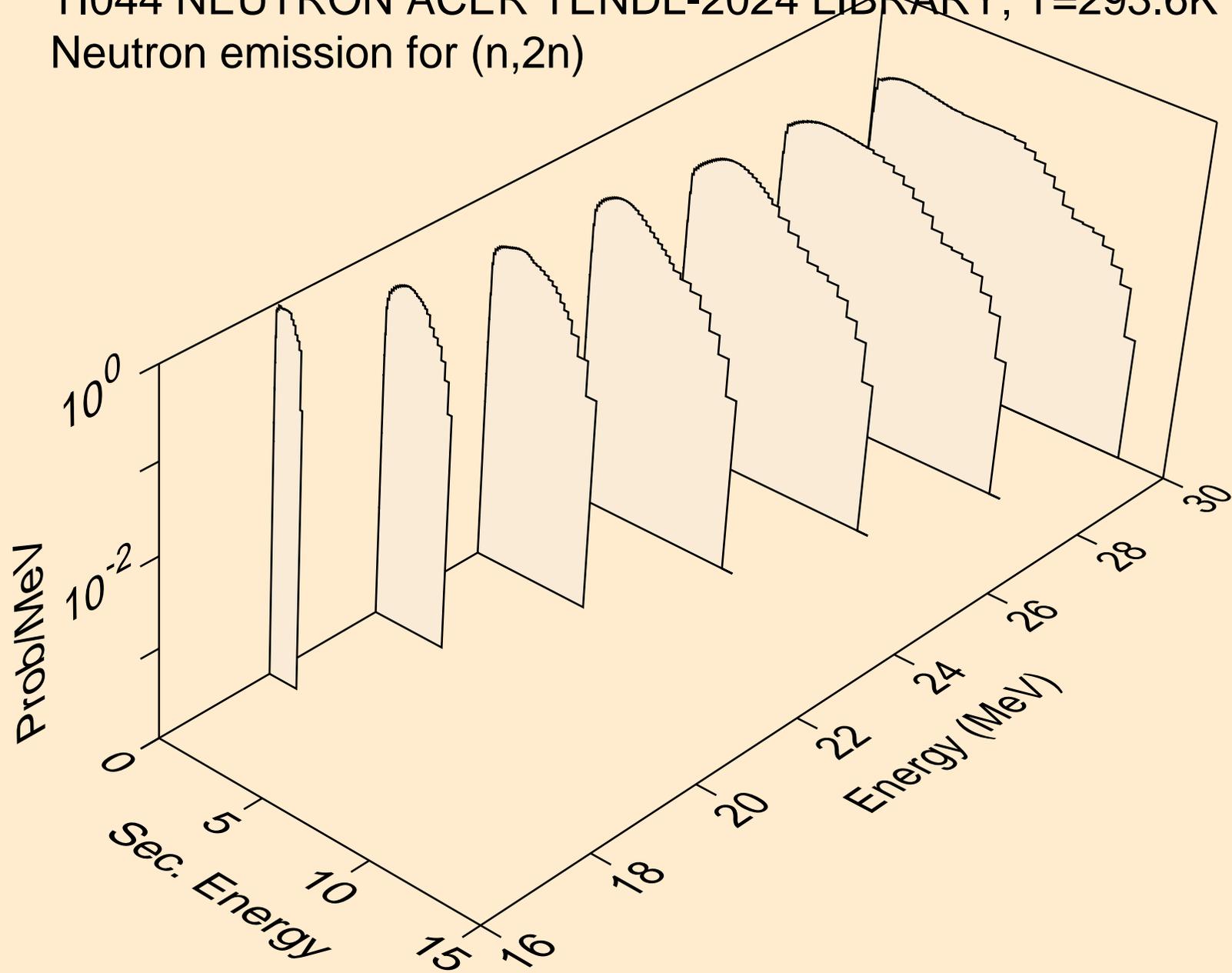angular distribution for (n,n*15)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
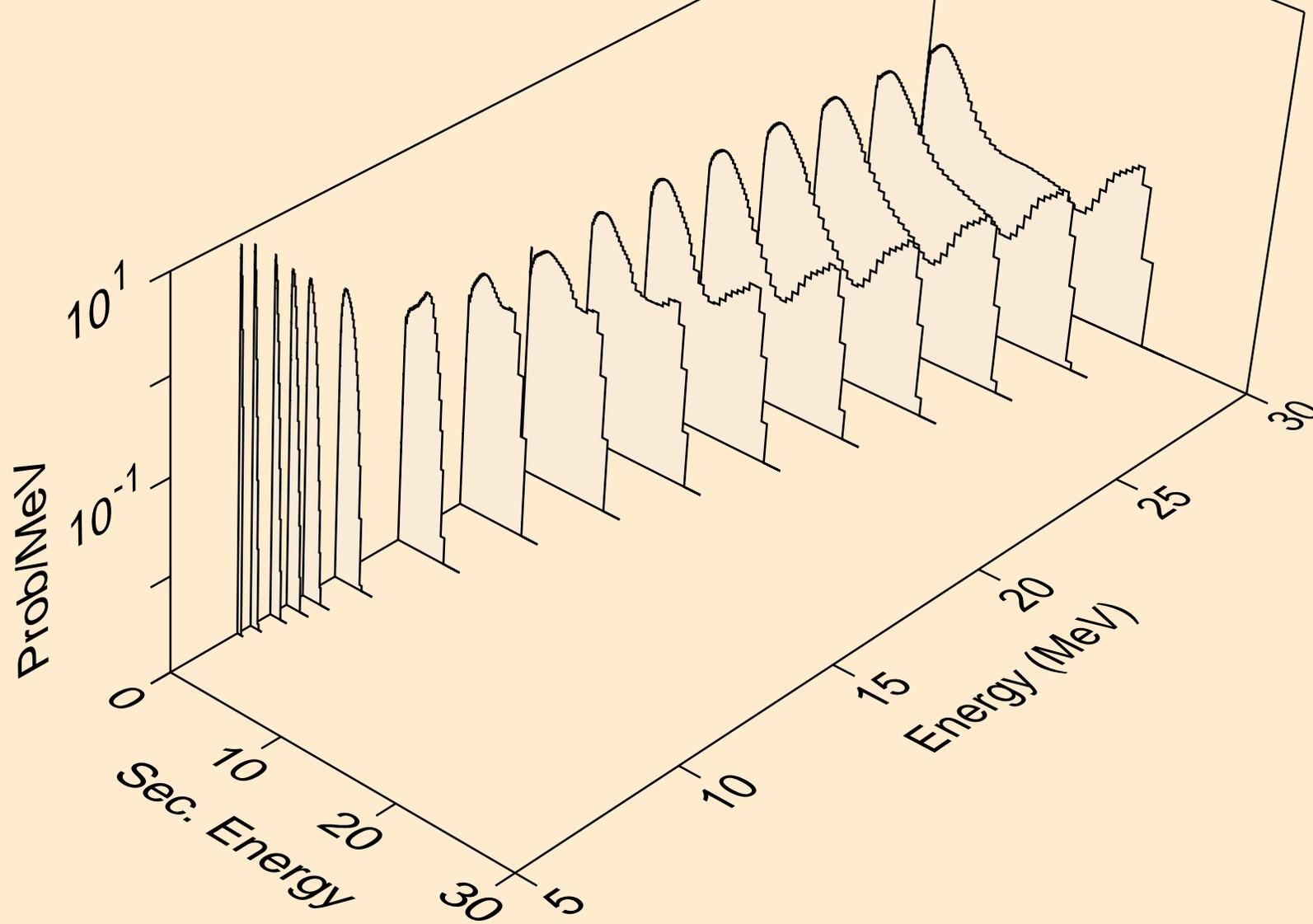angular distribution for (n,n*16)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
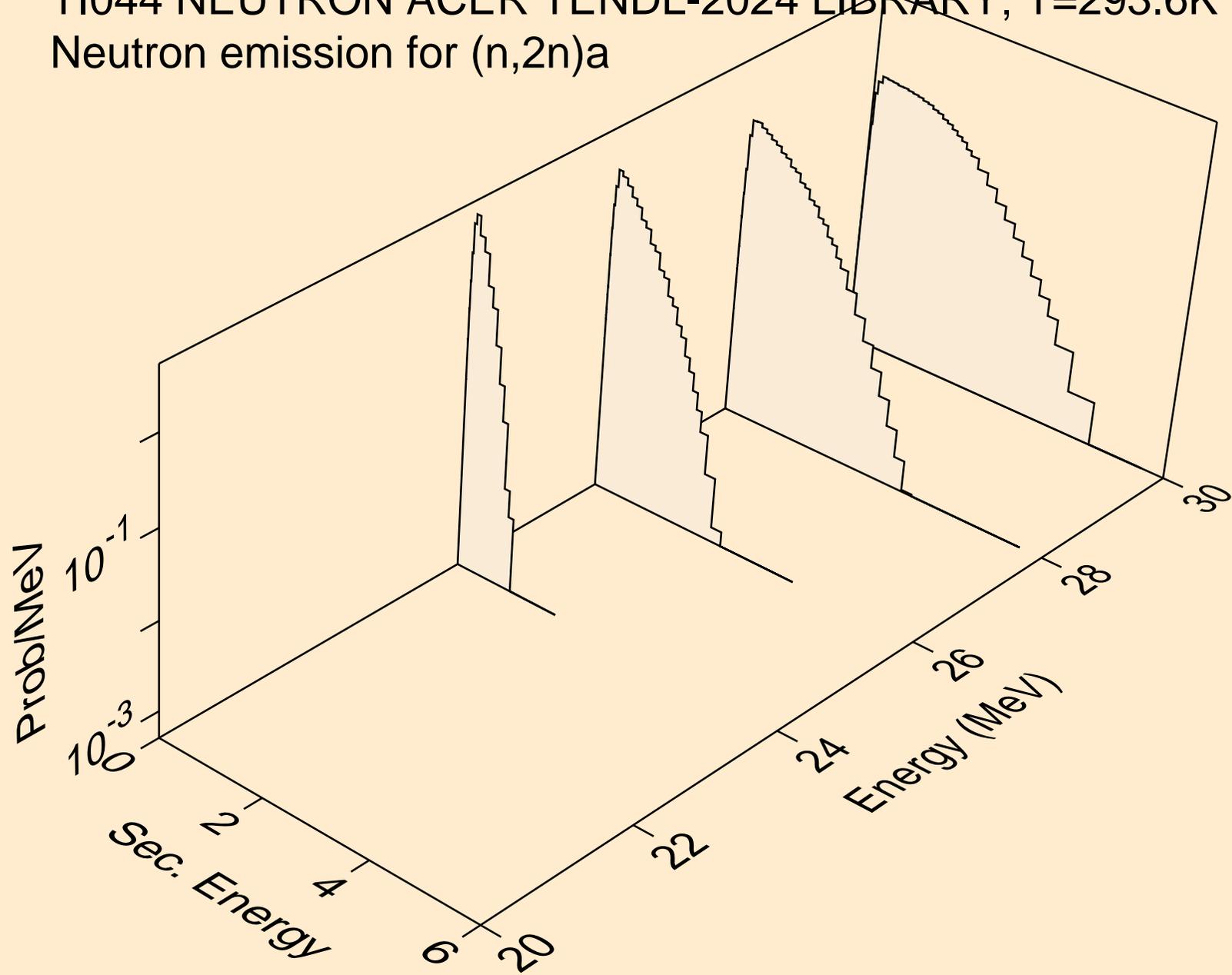Neutron emission for (n,x)

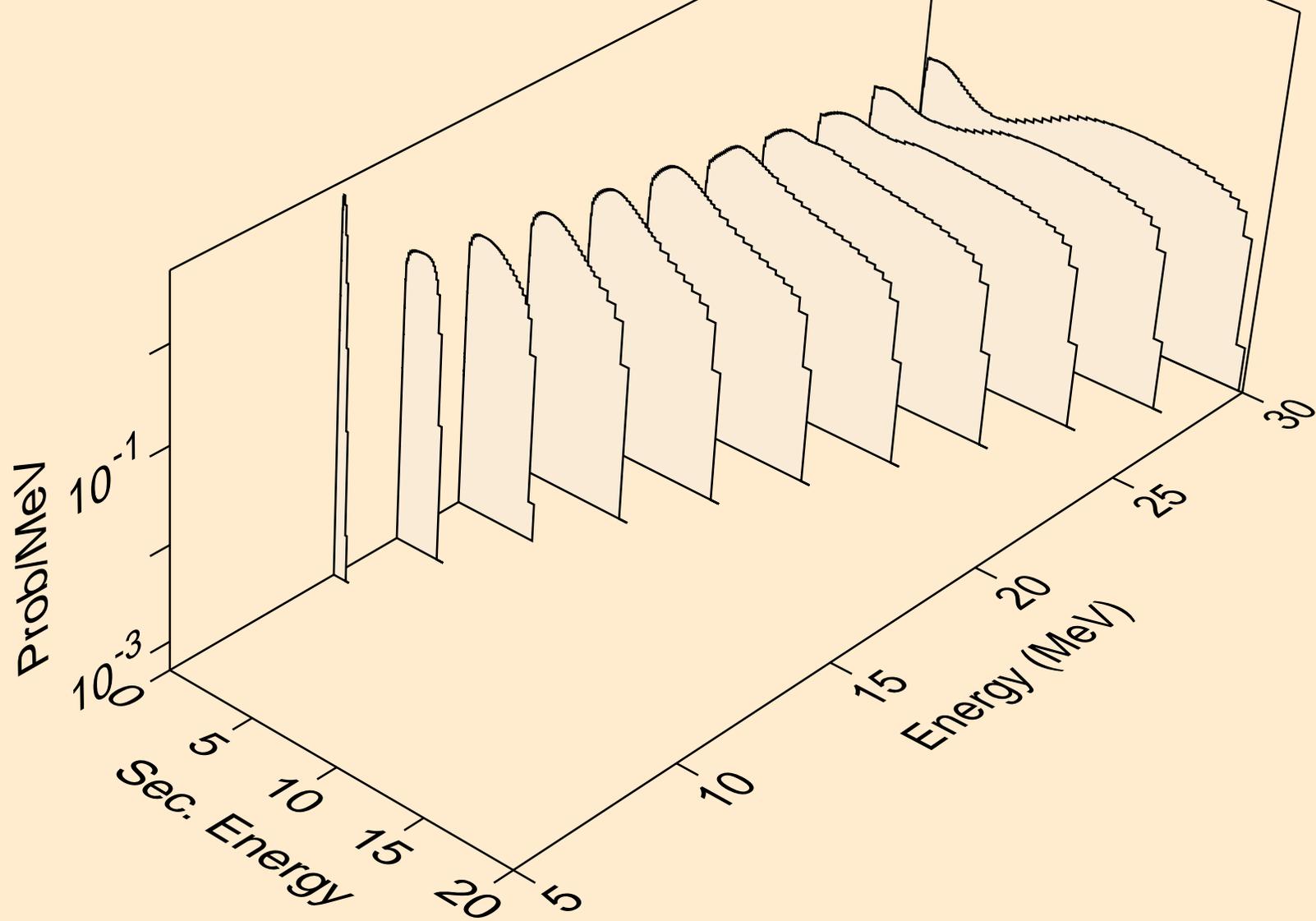TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Neutron emission for (n,2n)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
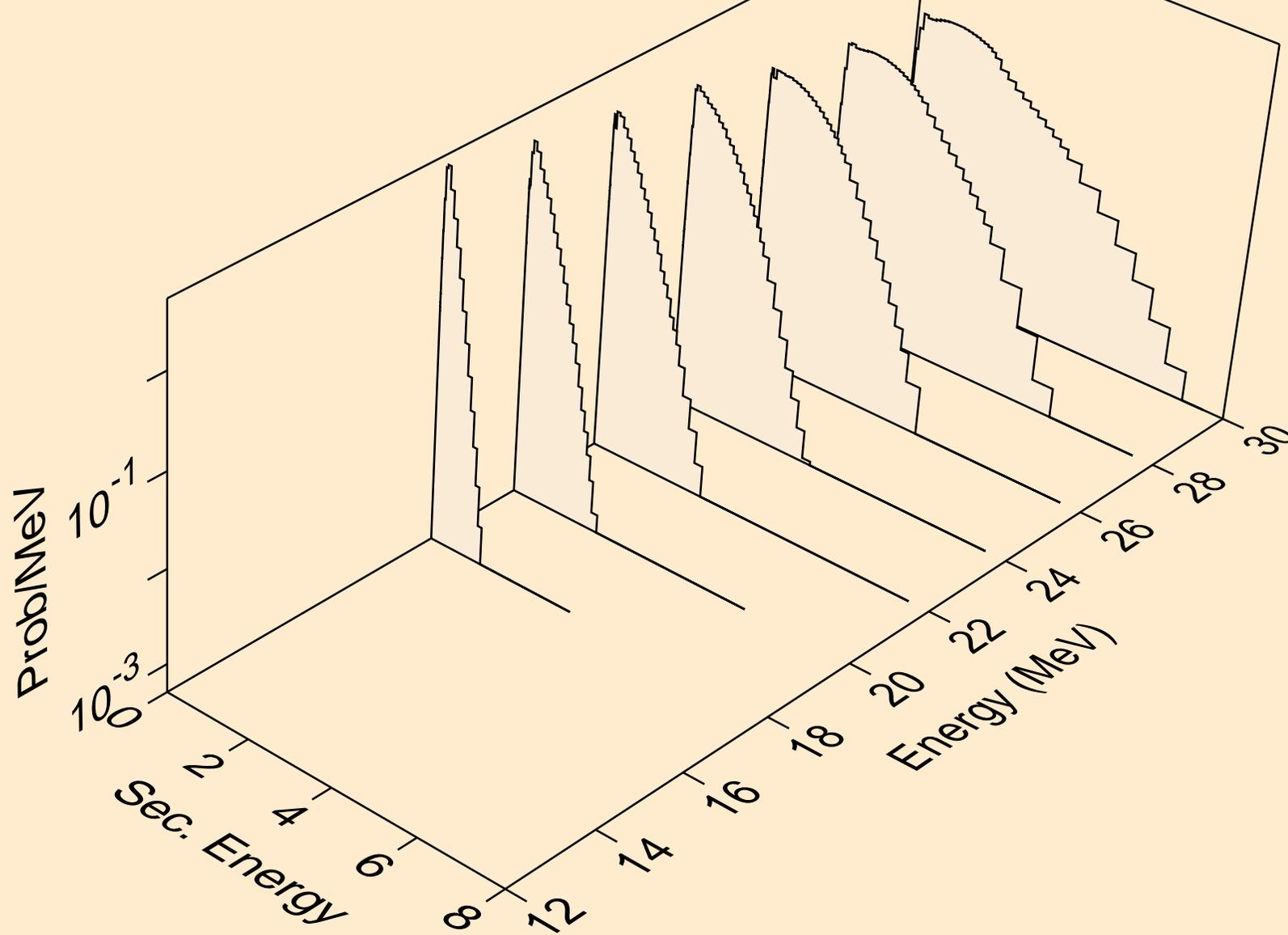Neutron emission for (n,n*)a

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
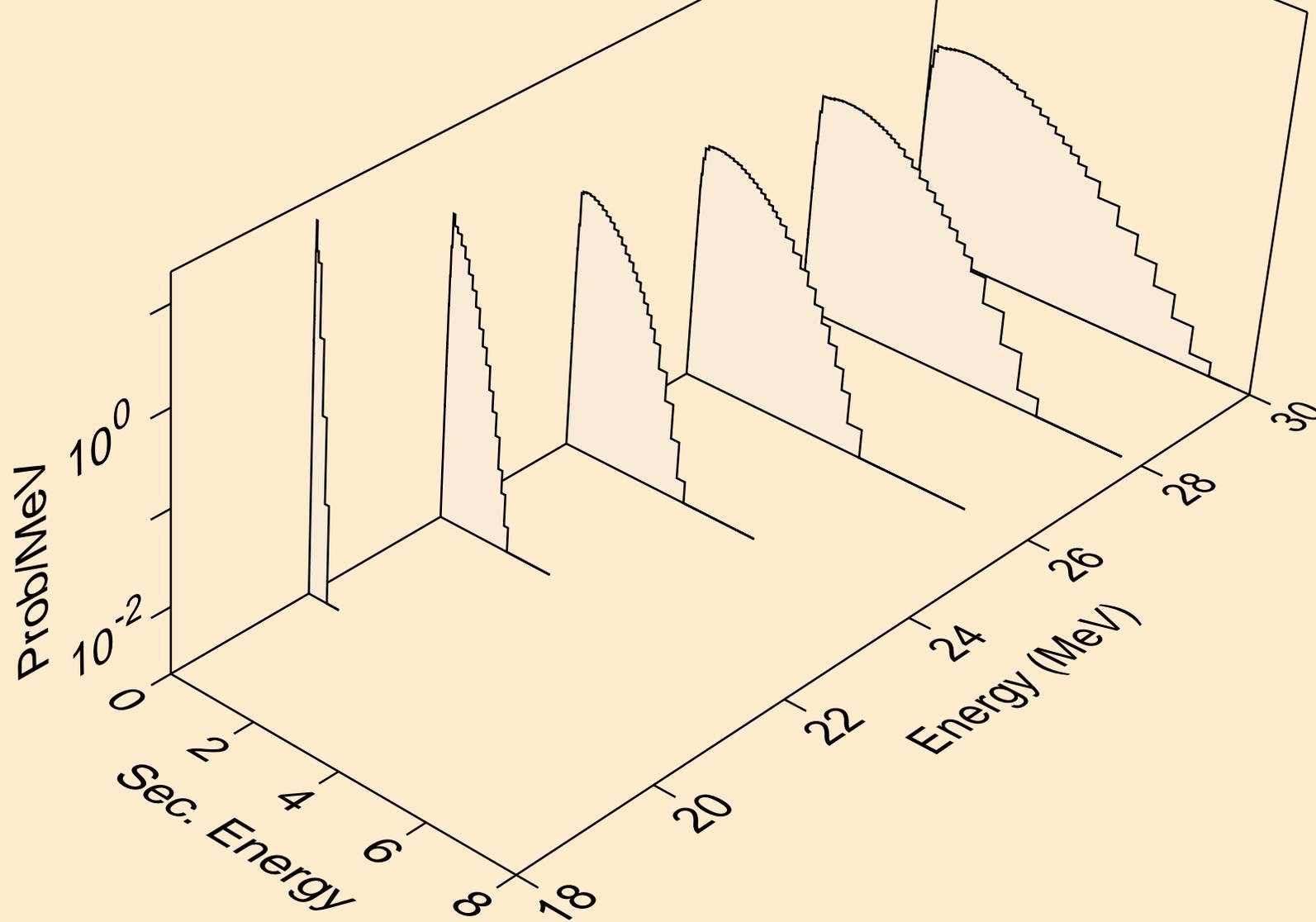Neutron emission for (n,2n)a

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
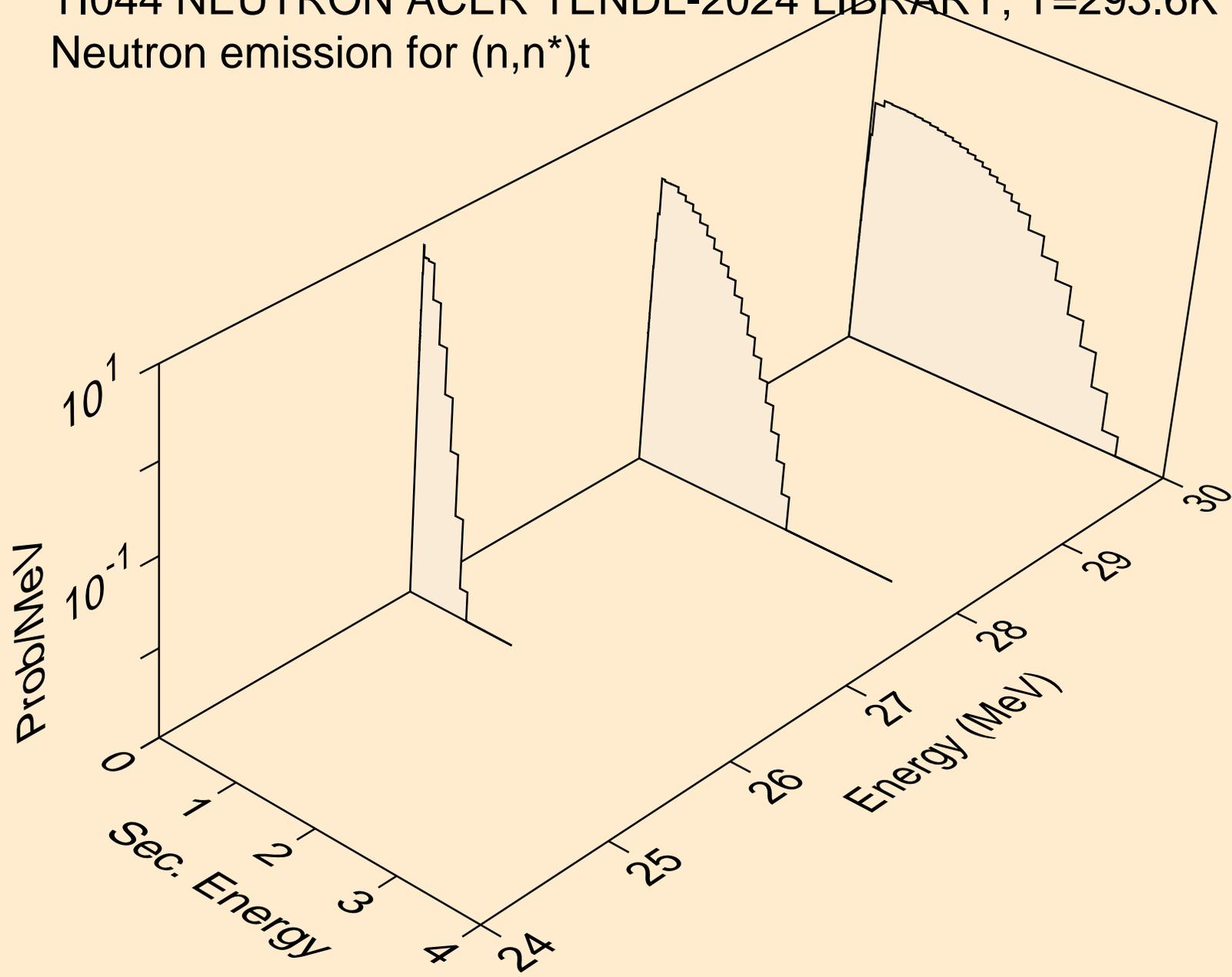Neutron emission for (n,n*)p

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
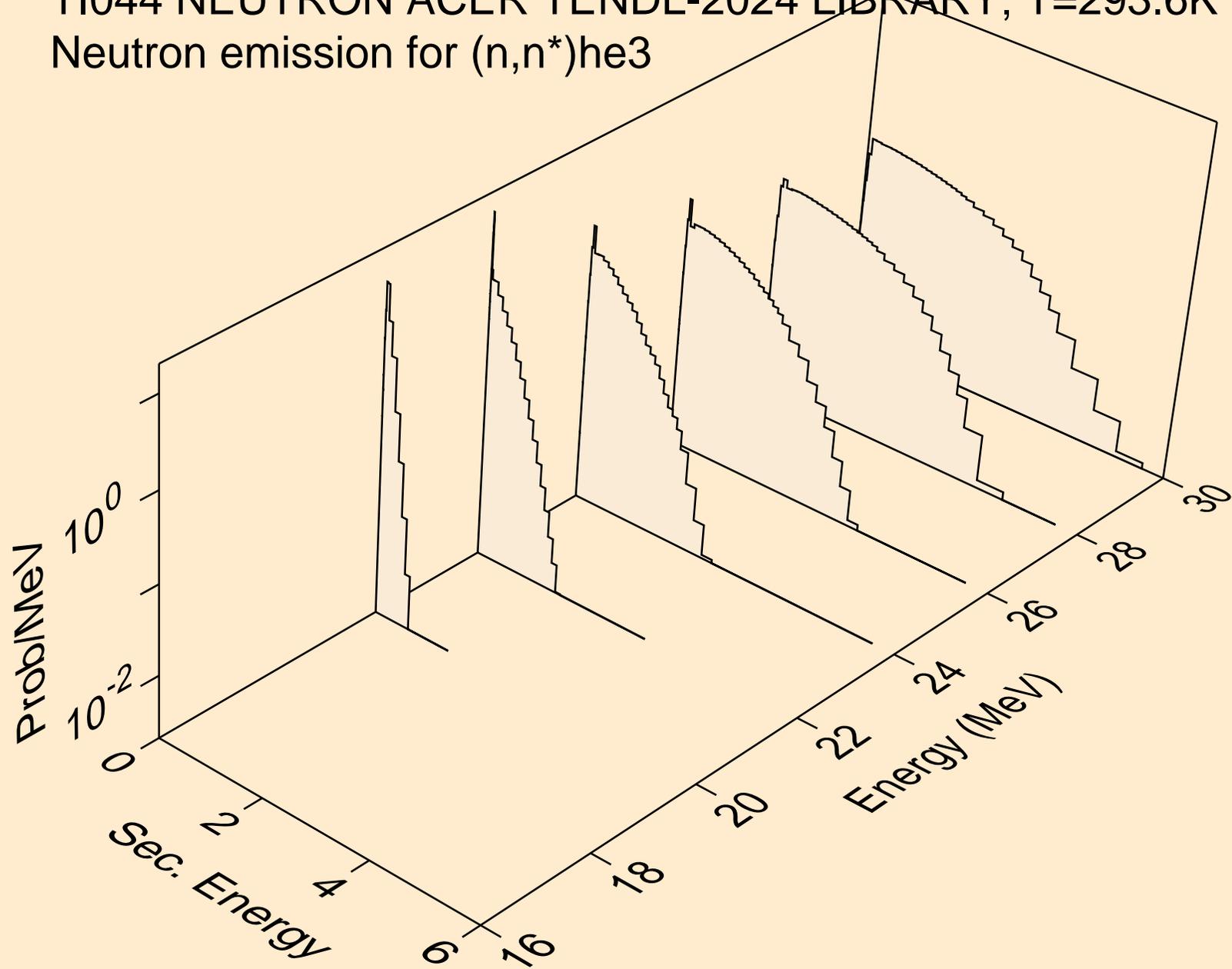Neutron emission for (n,n*)2a

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
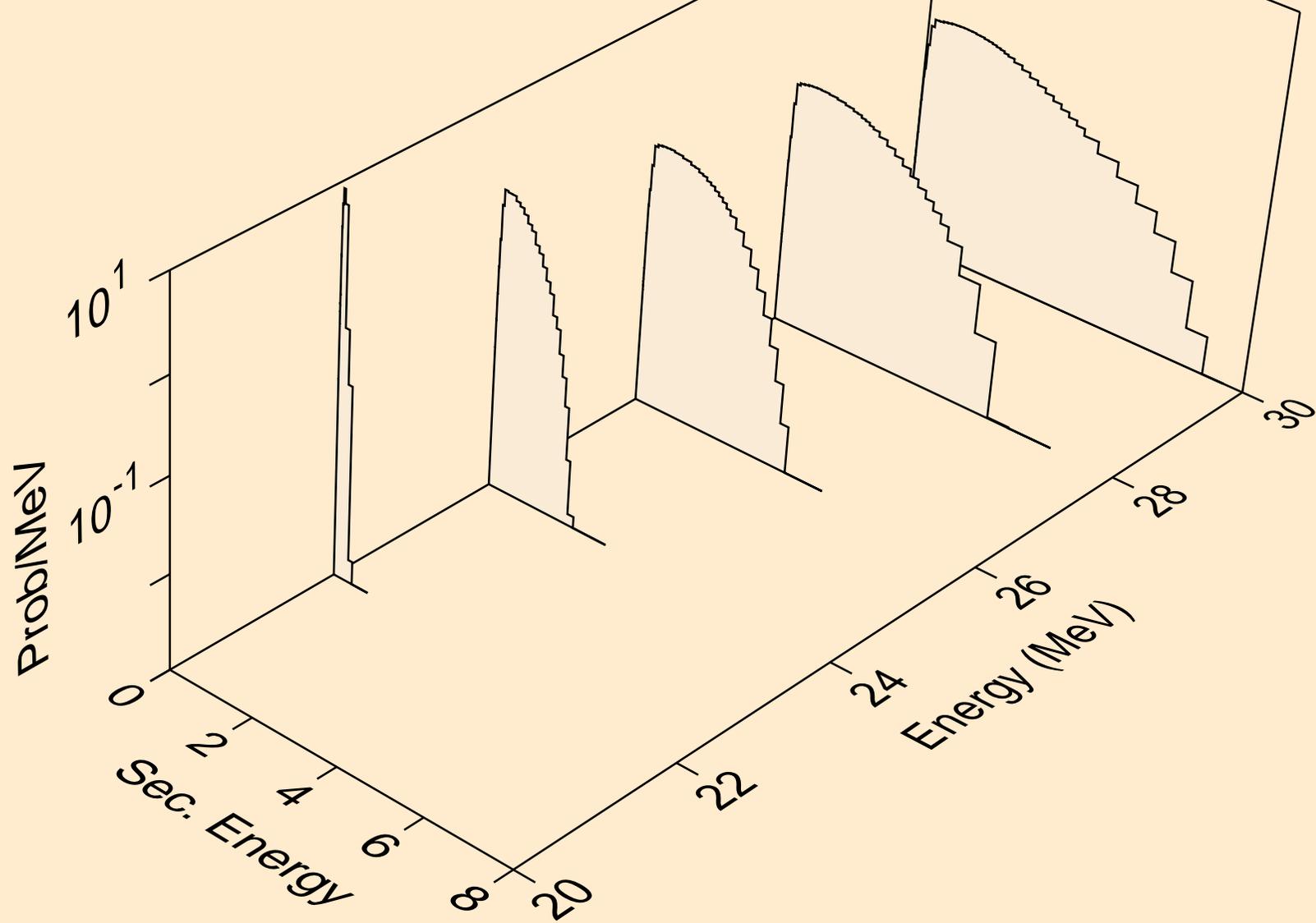Neutron emission for (n,n*)d

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
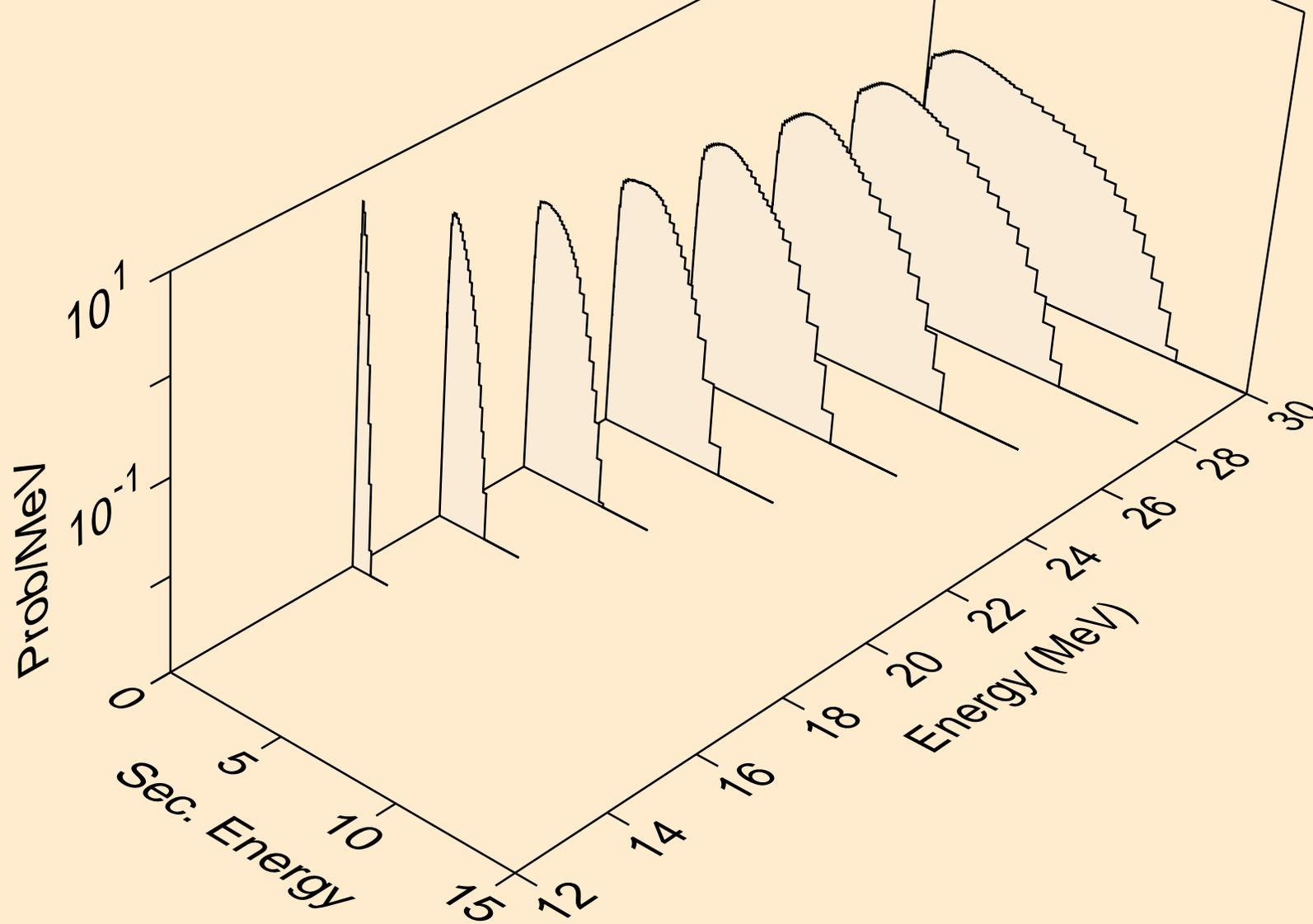Neutron emission for (n,n*)t

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
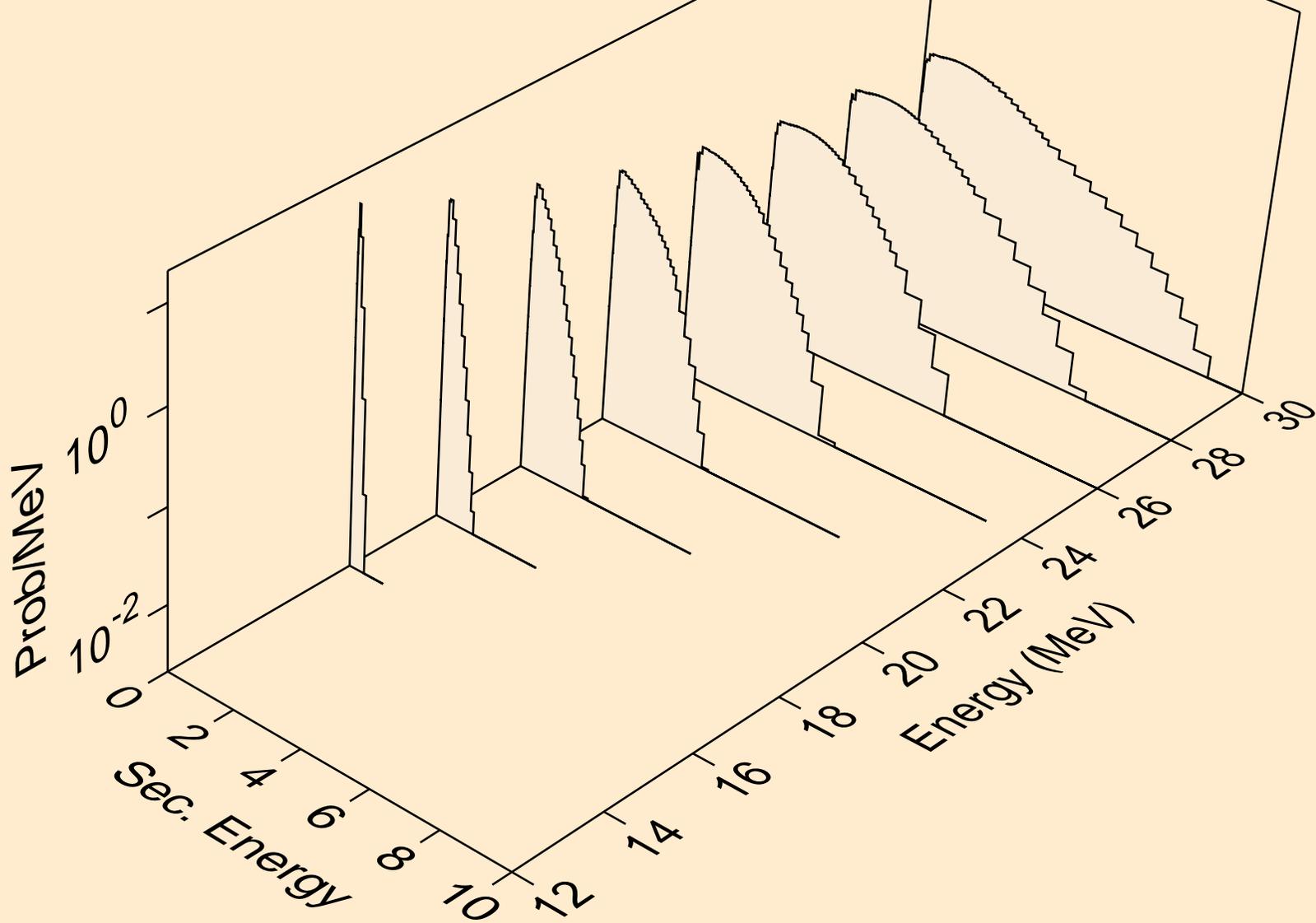Neutron emission for (n,n*)he3

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
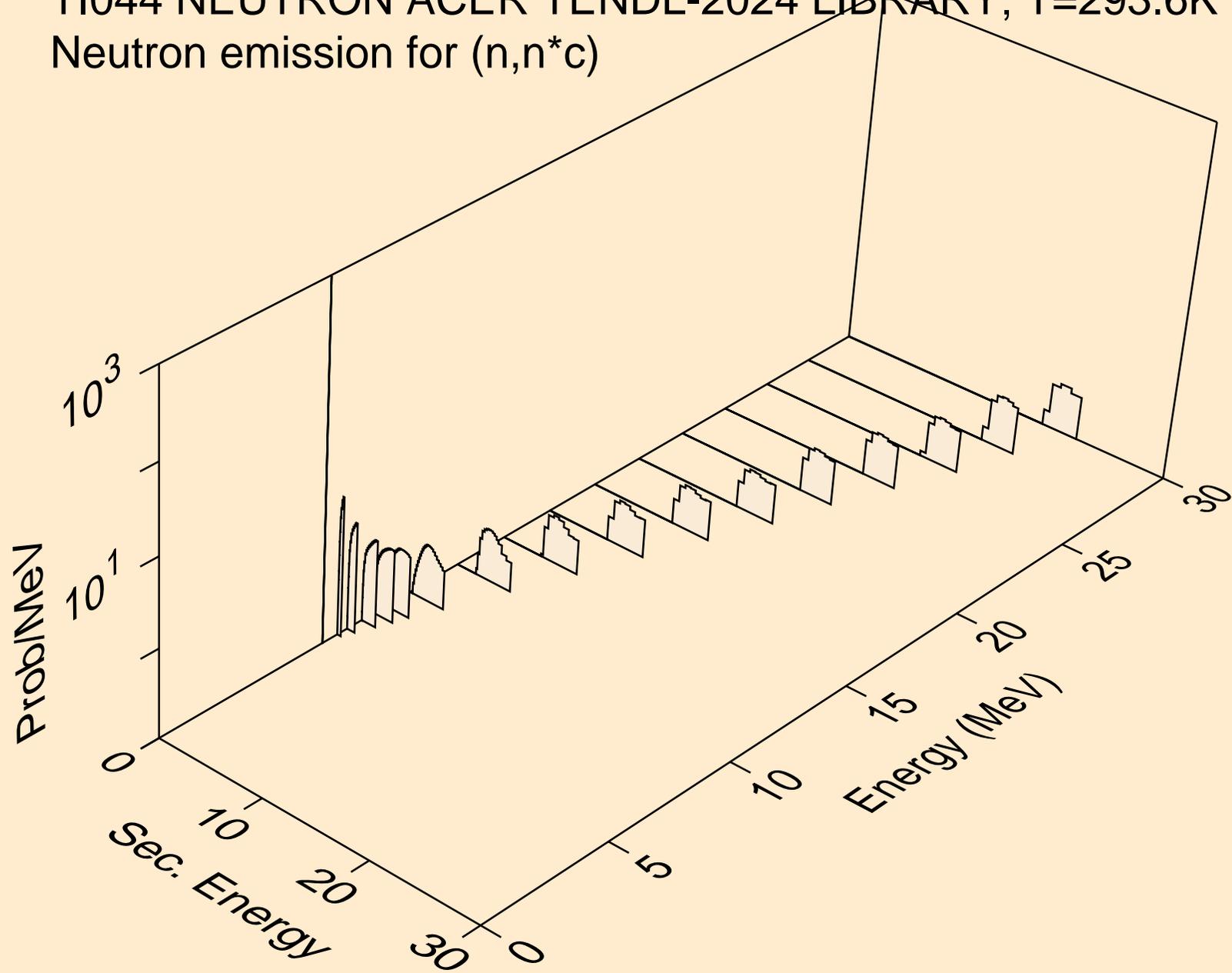Neutron emission for (n,2np)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
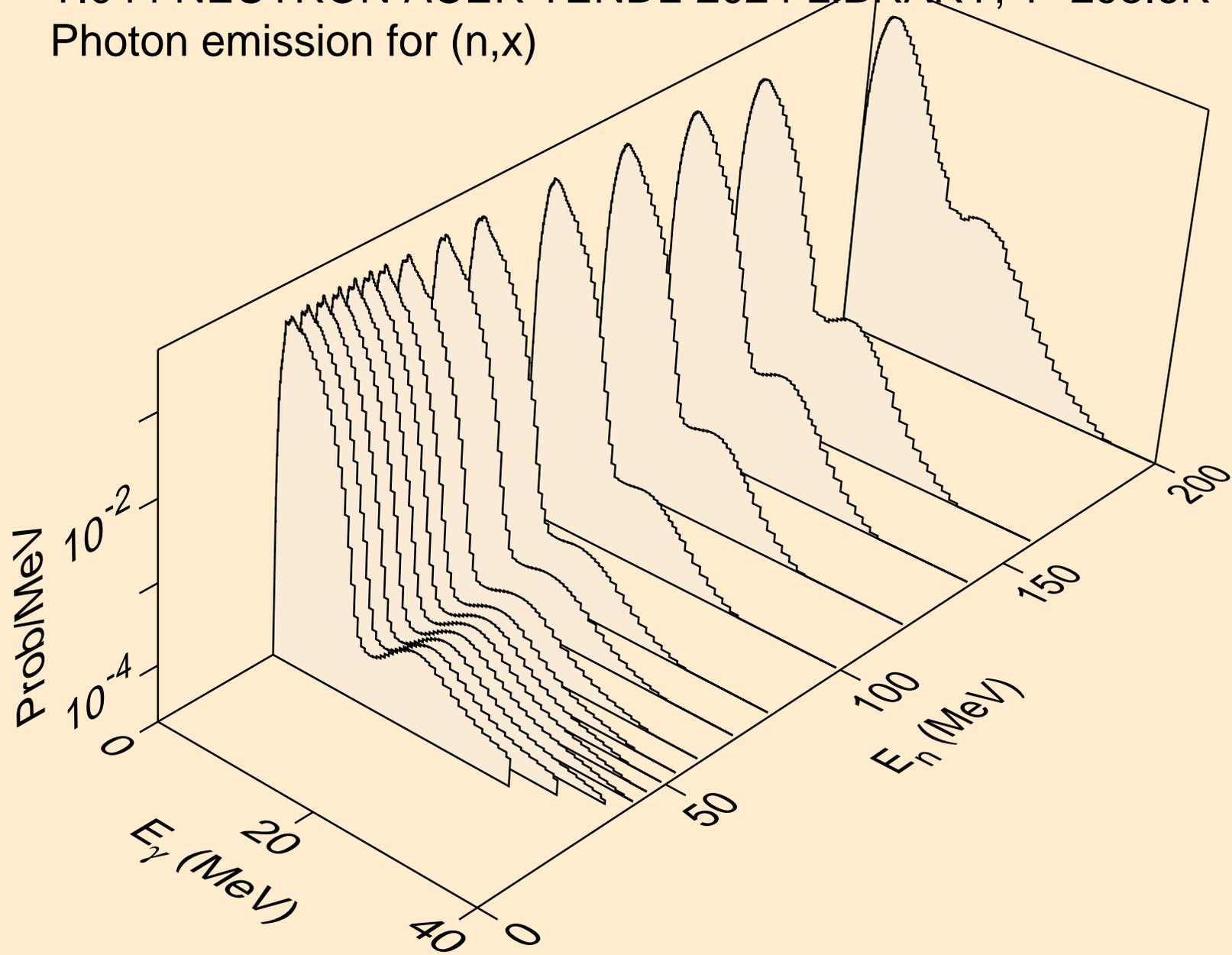Neutron emission for (n,n2p)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
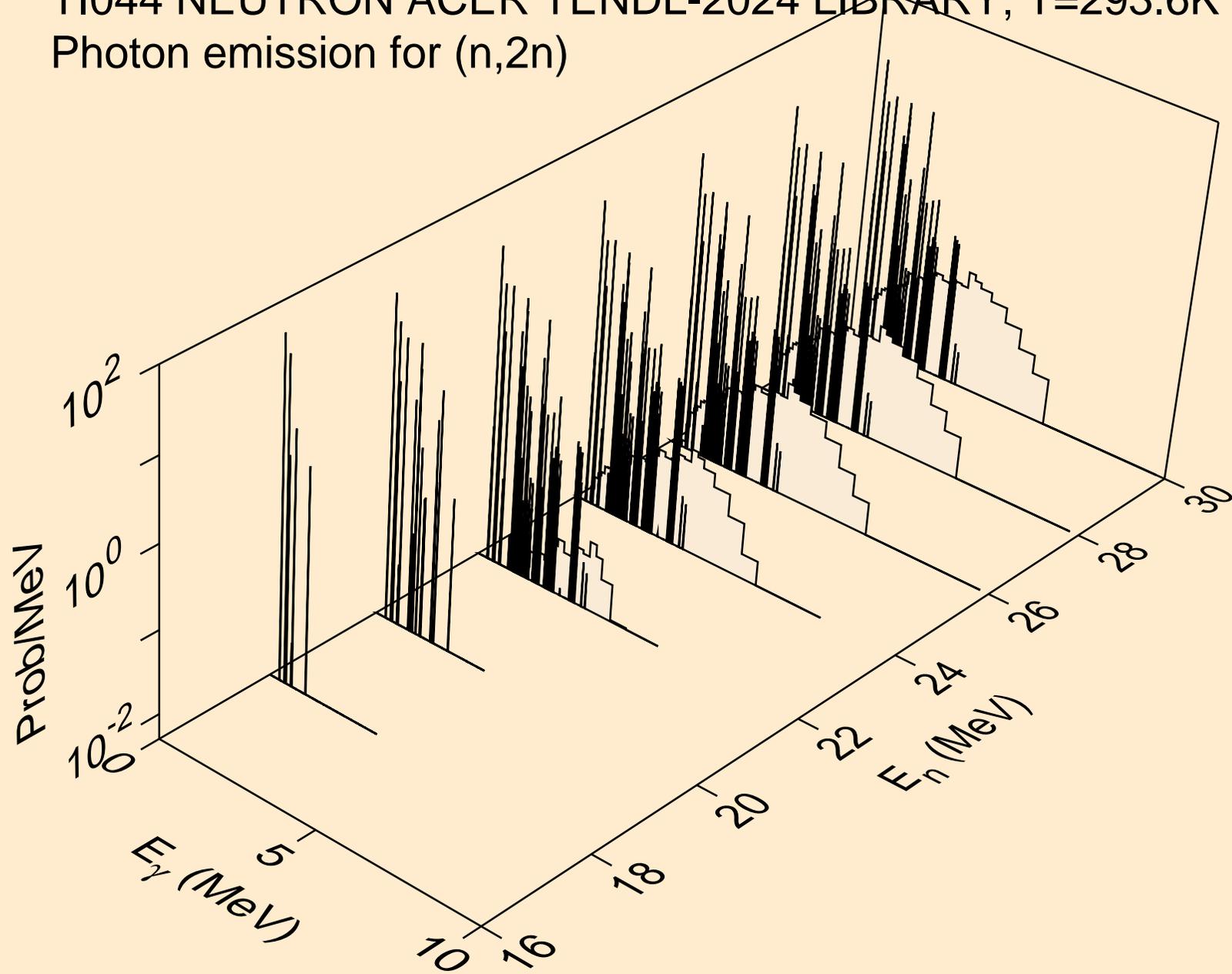Neutron emission for (n,npa)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
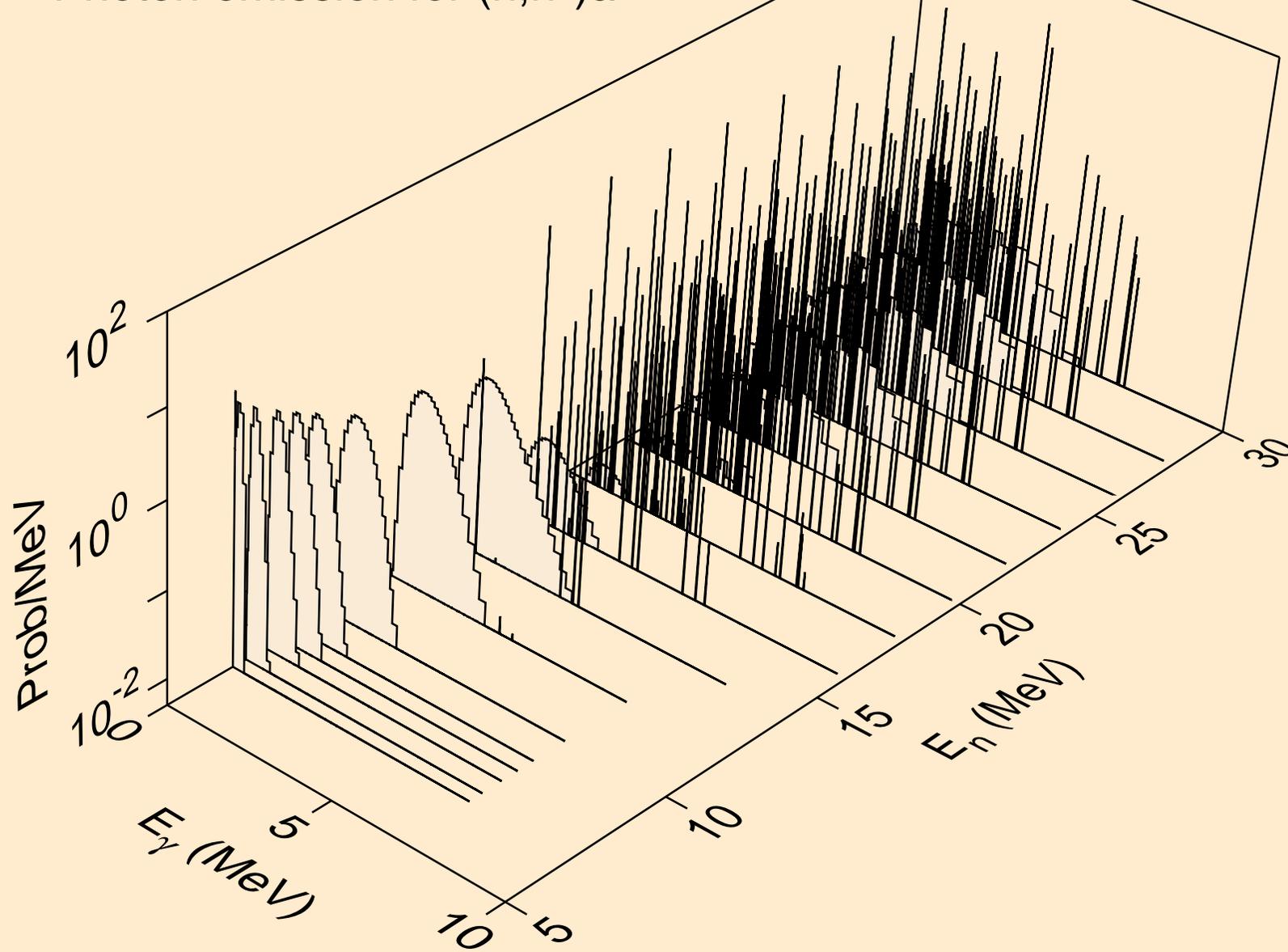Neutron emission for (n,n*c)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
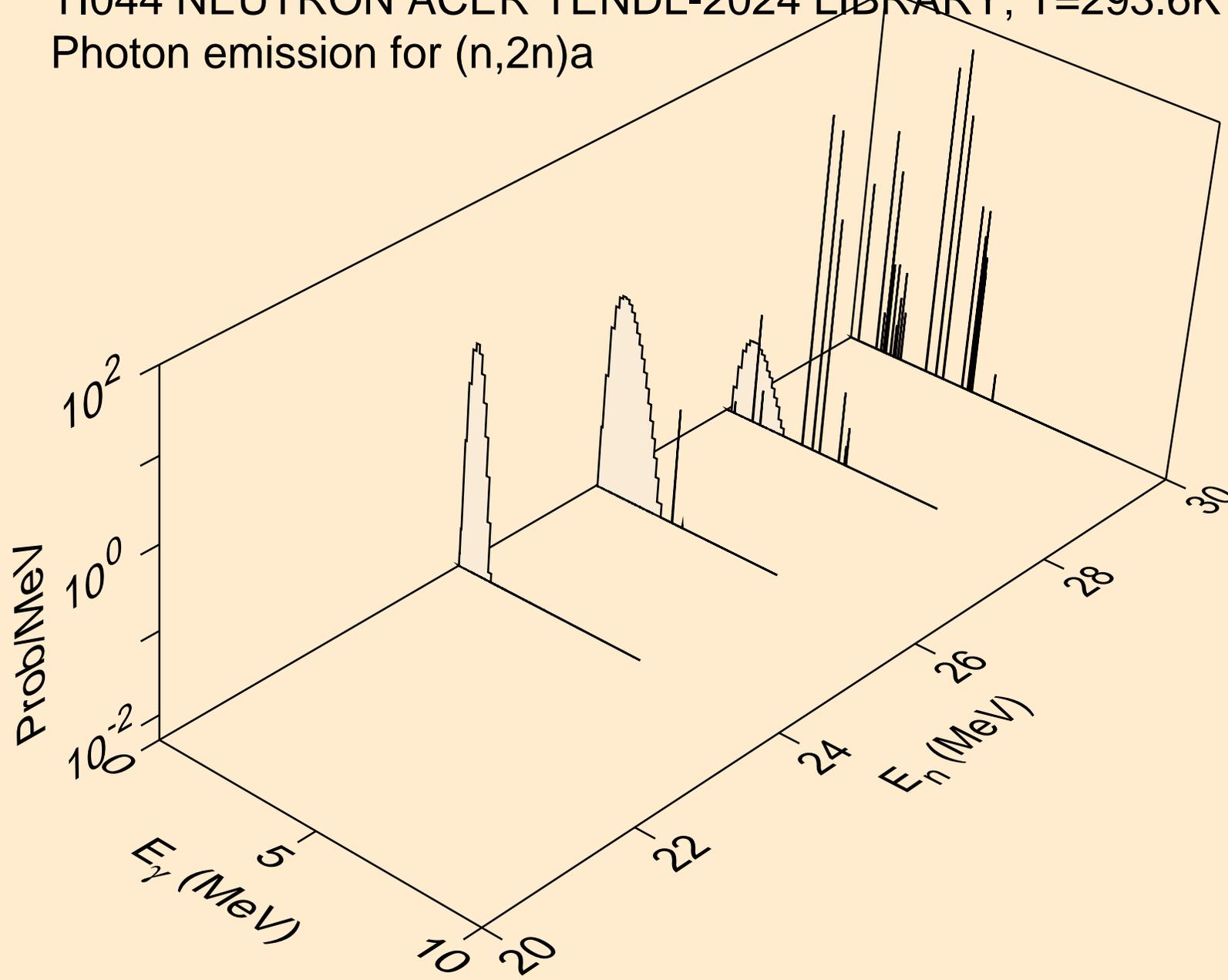Photon emission for (n,x)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
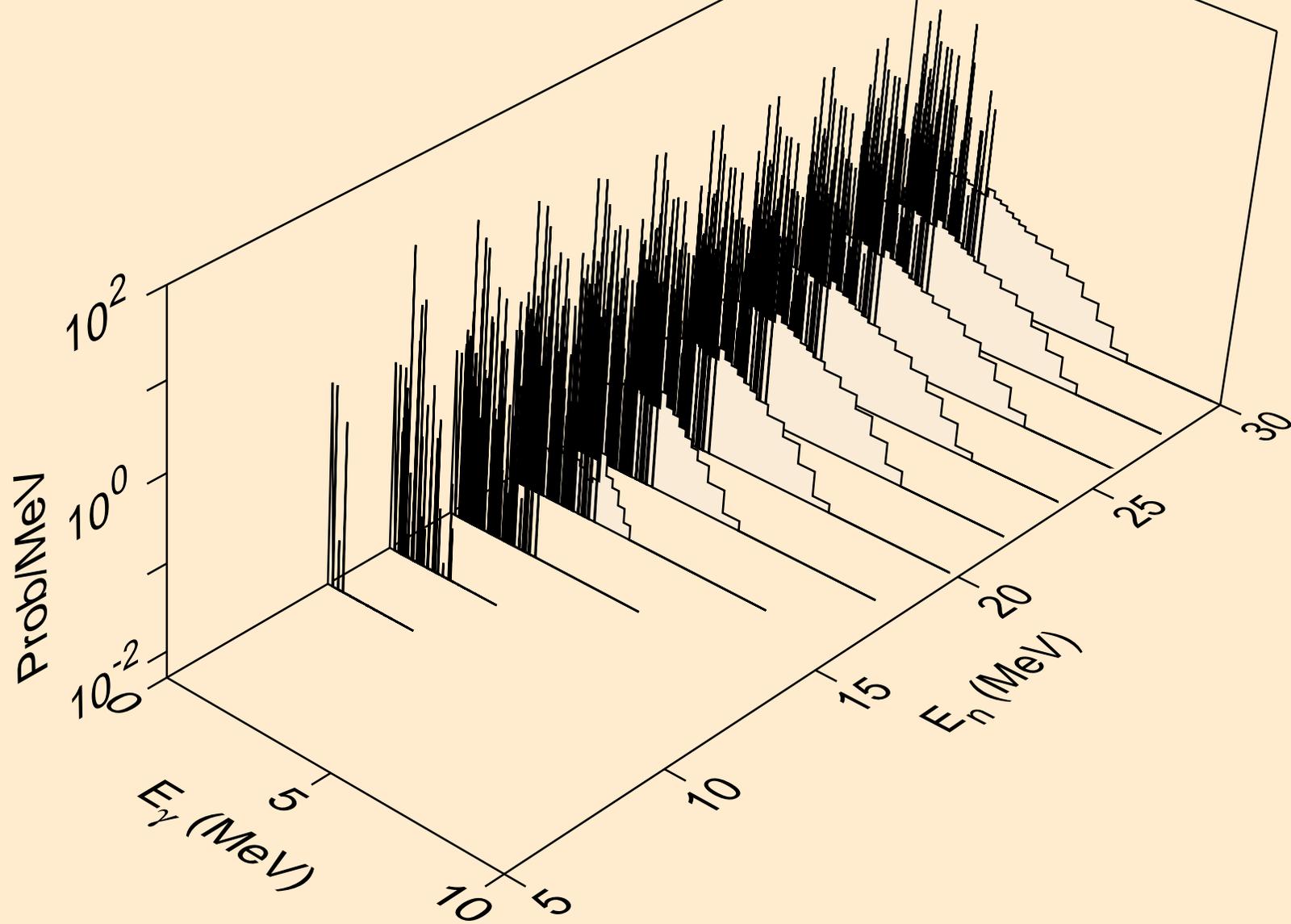Photon emission for (n,2n)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
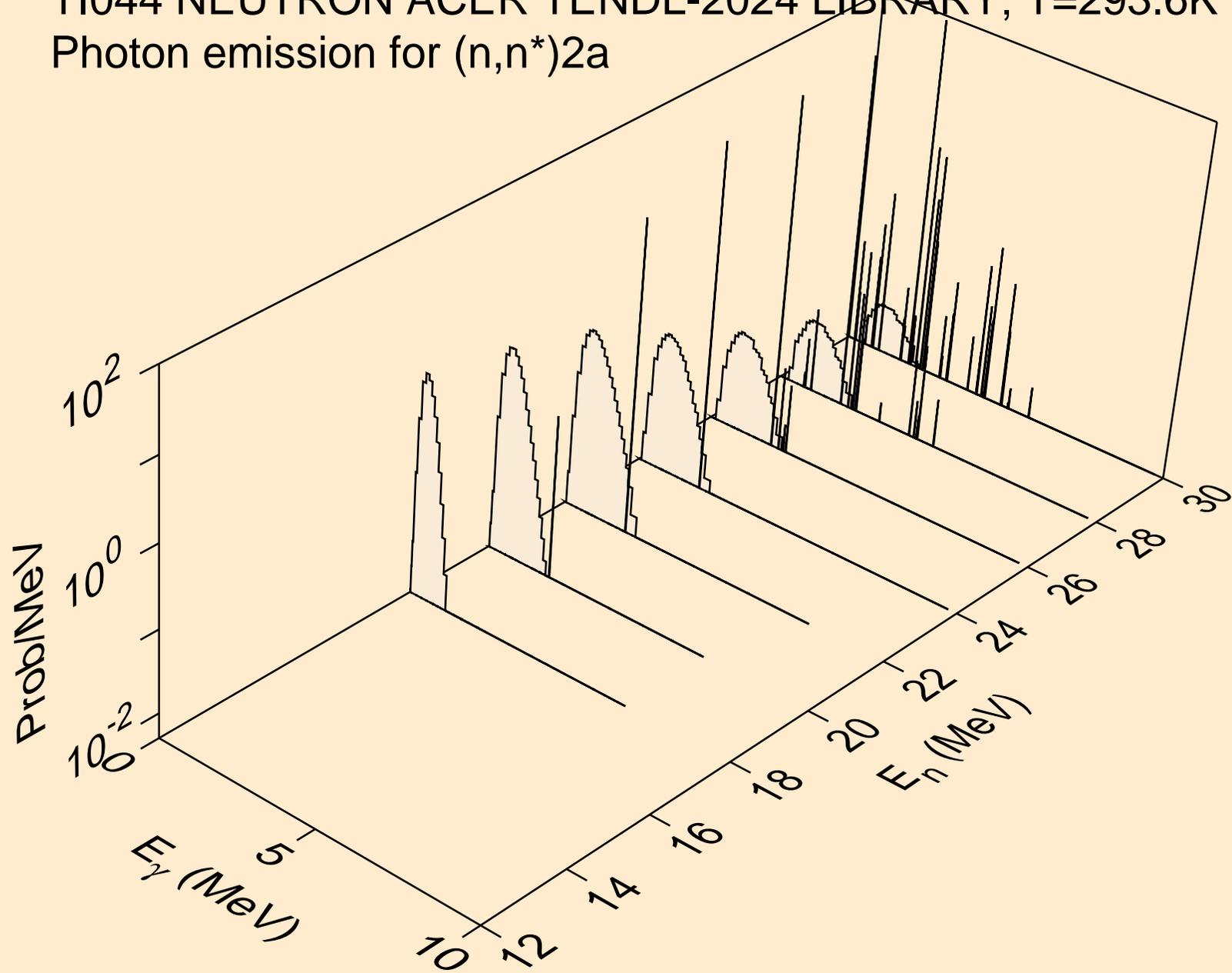Photon emission for (n,n*)a

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
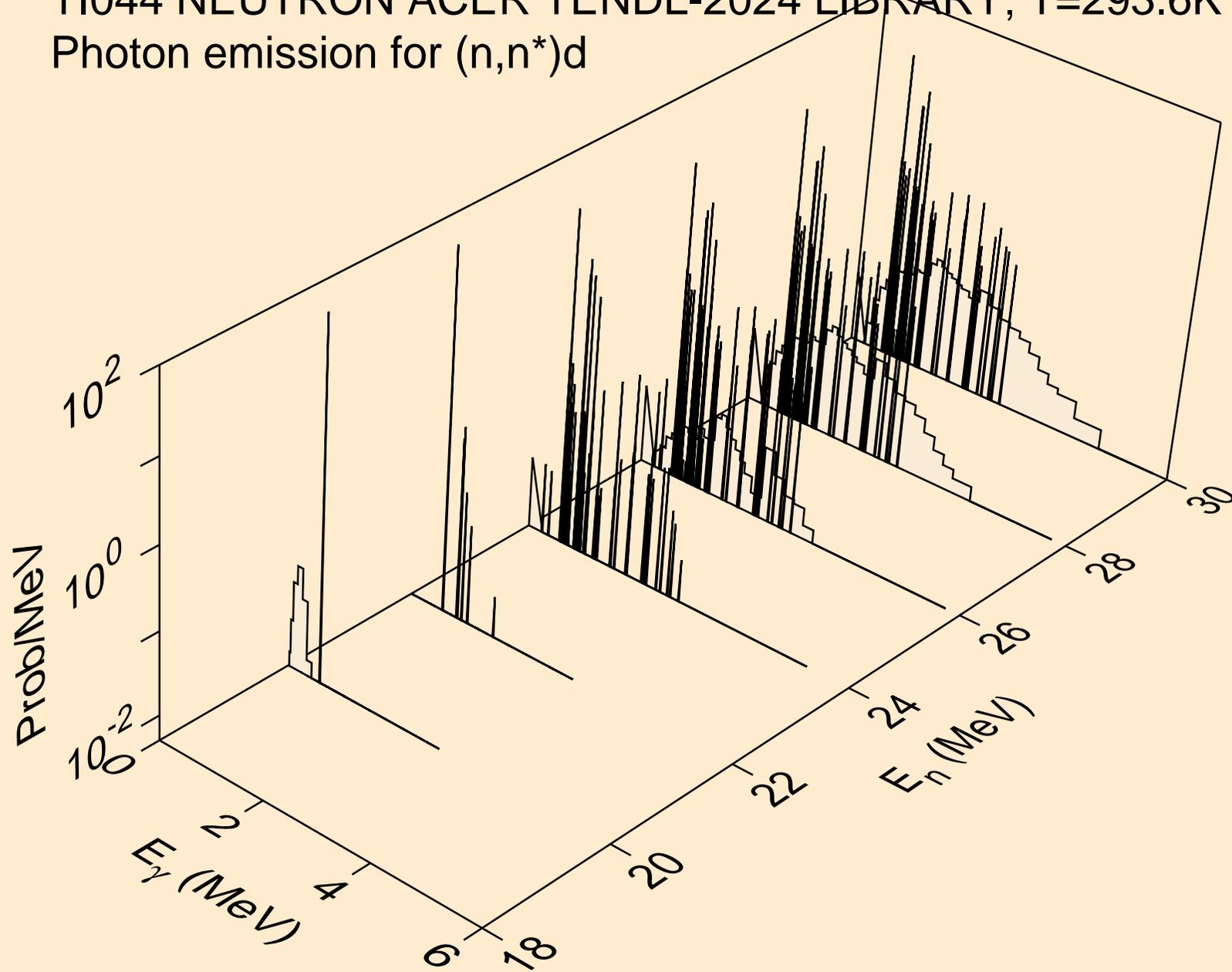Photon emission for (n,2n)a

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
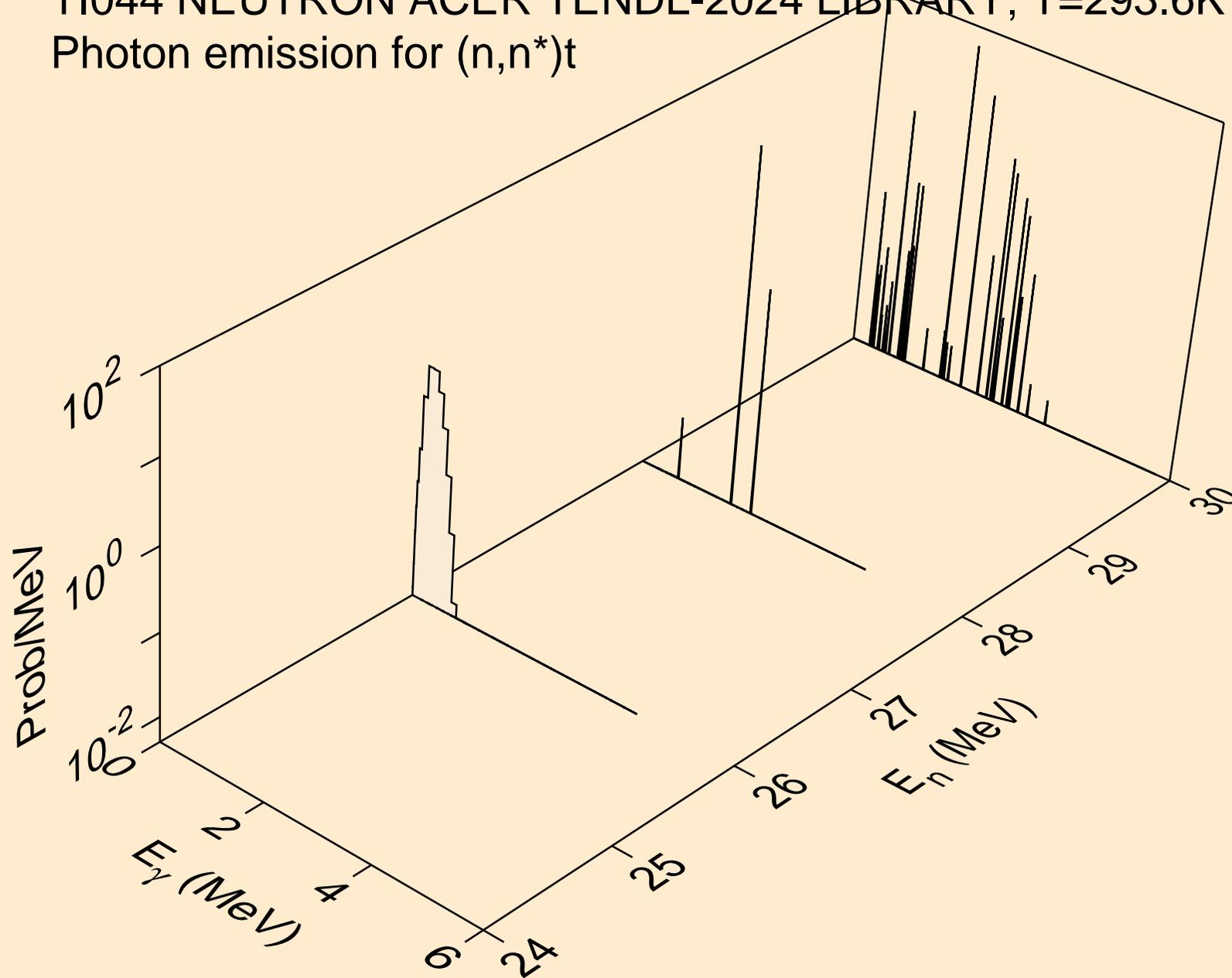Photon emission for (n,n*)p

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
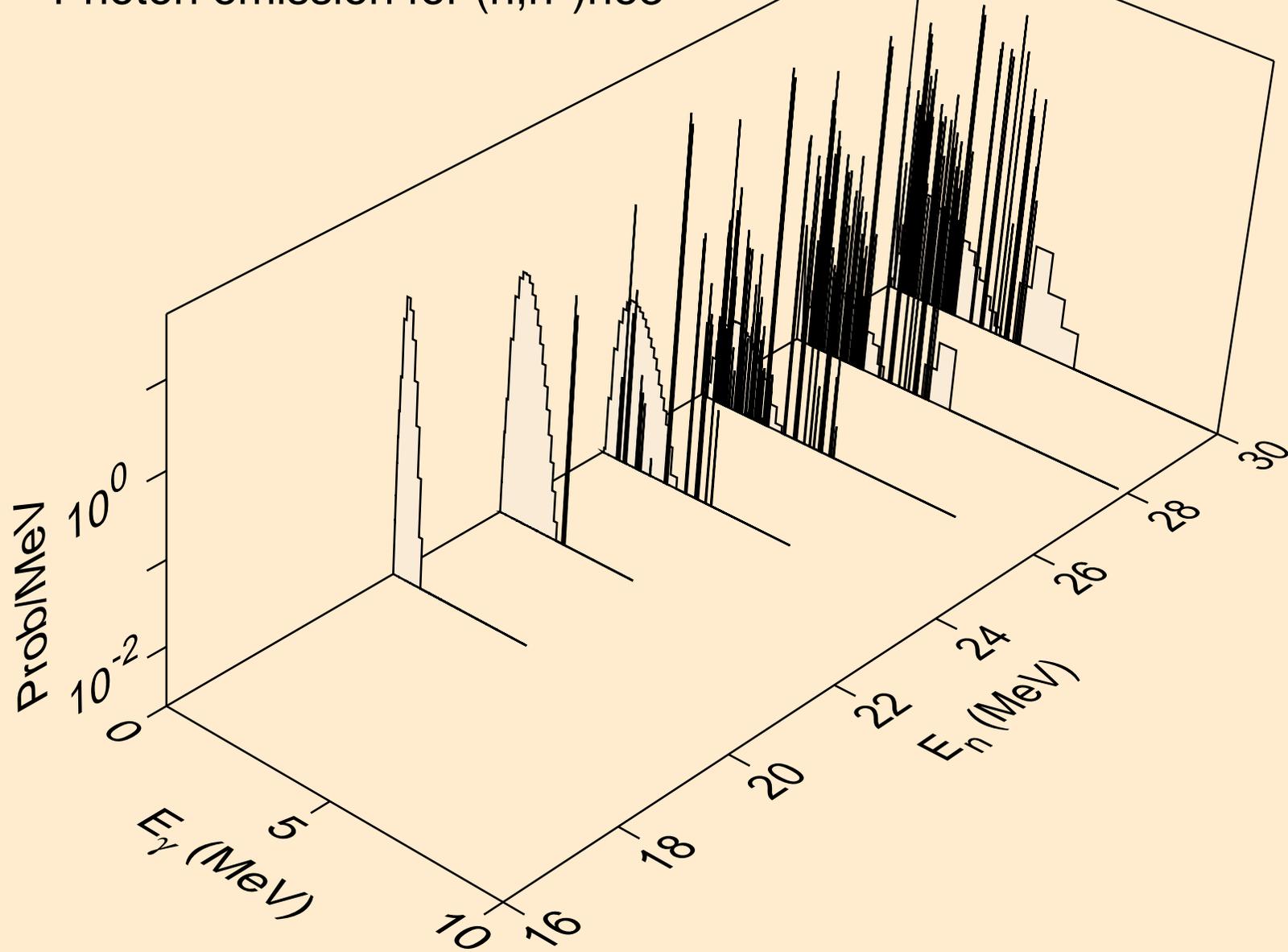Photon emission for (n,n*)2a

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
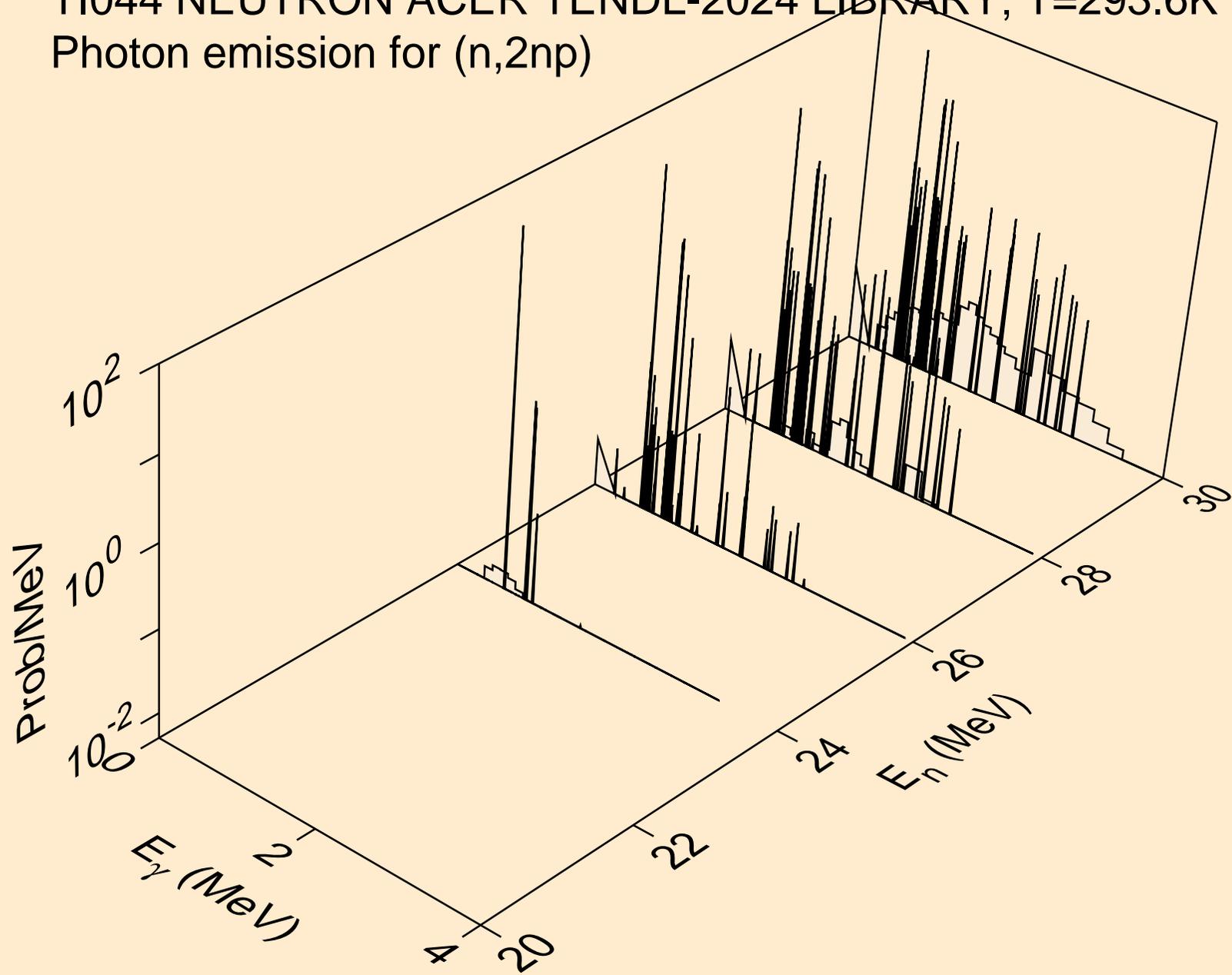Photon emission for (n,n*)d

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
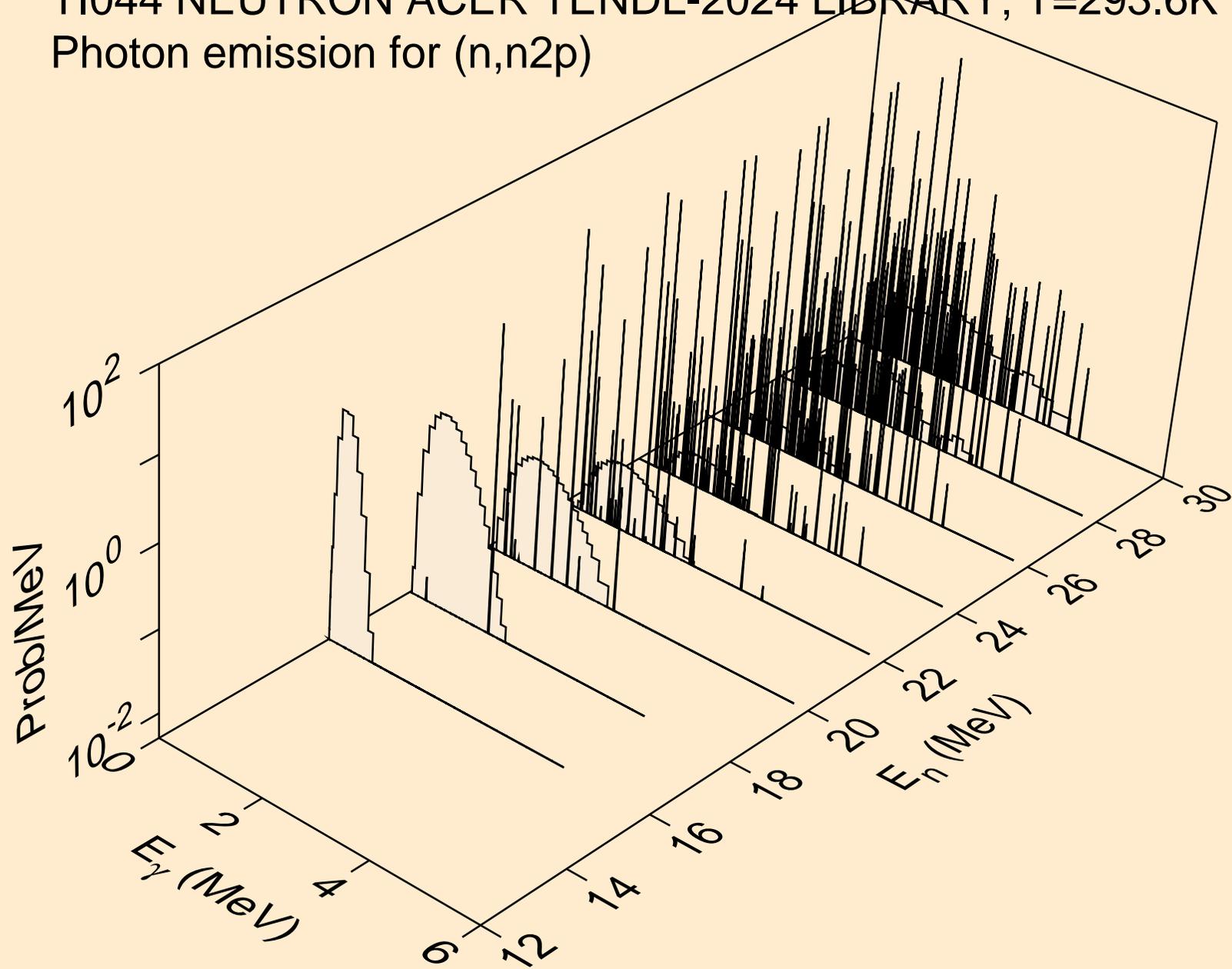Photon emission for (n,n*)t

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
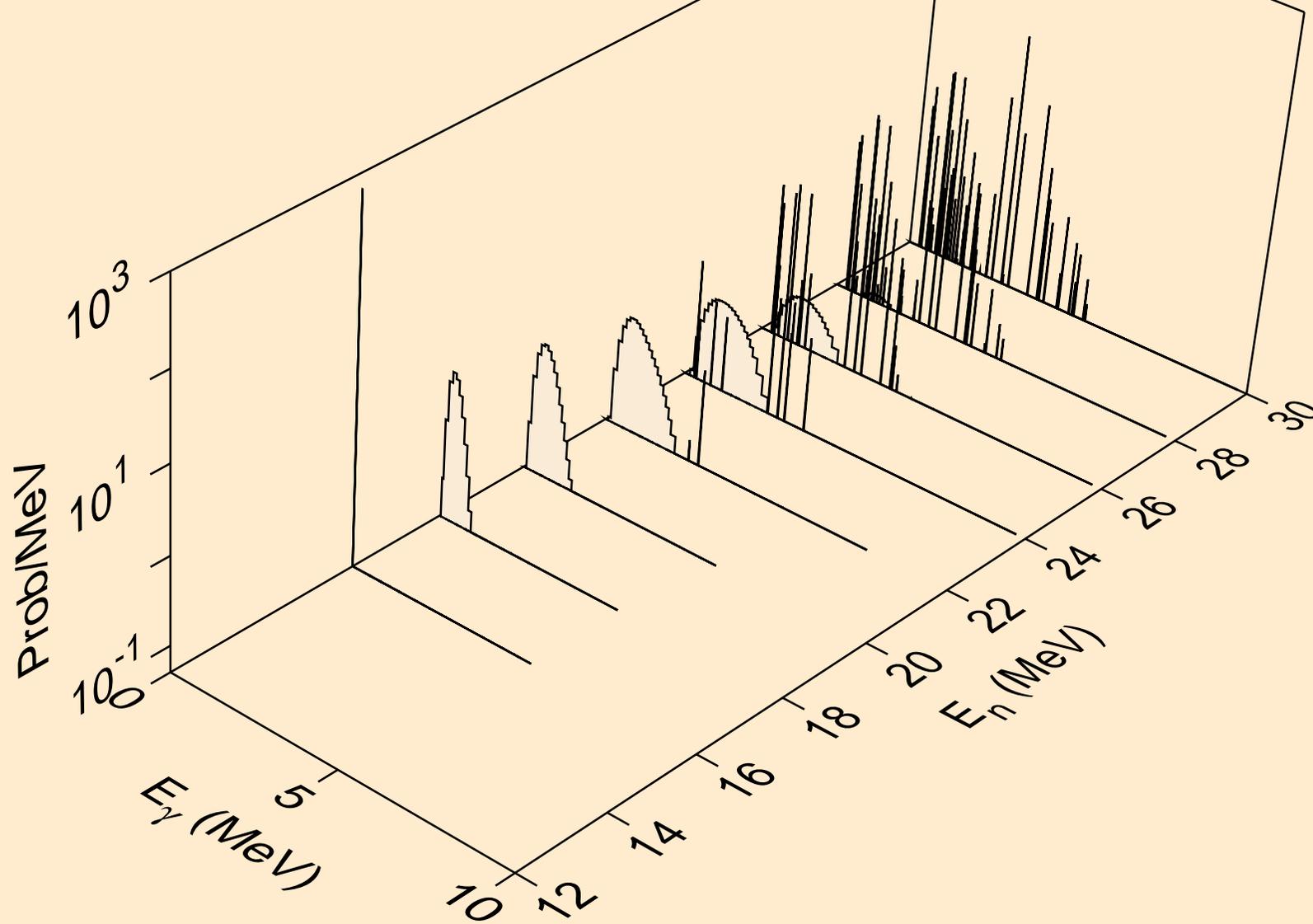Photon emission for (n,n*)he3

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
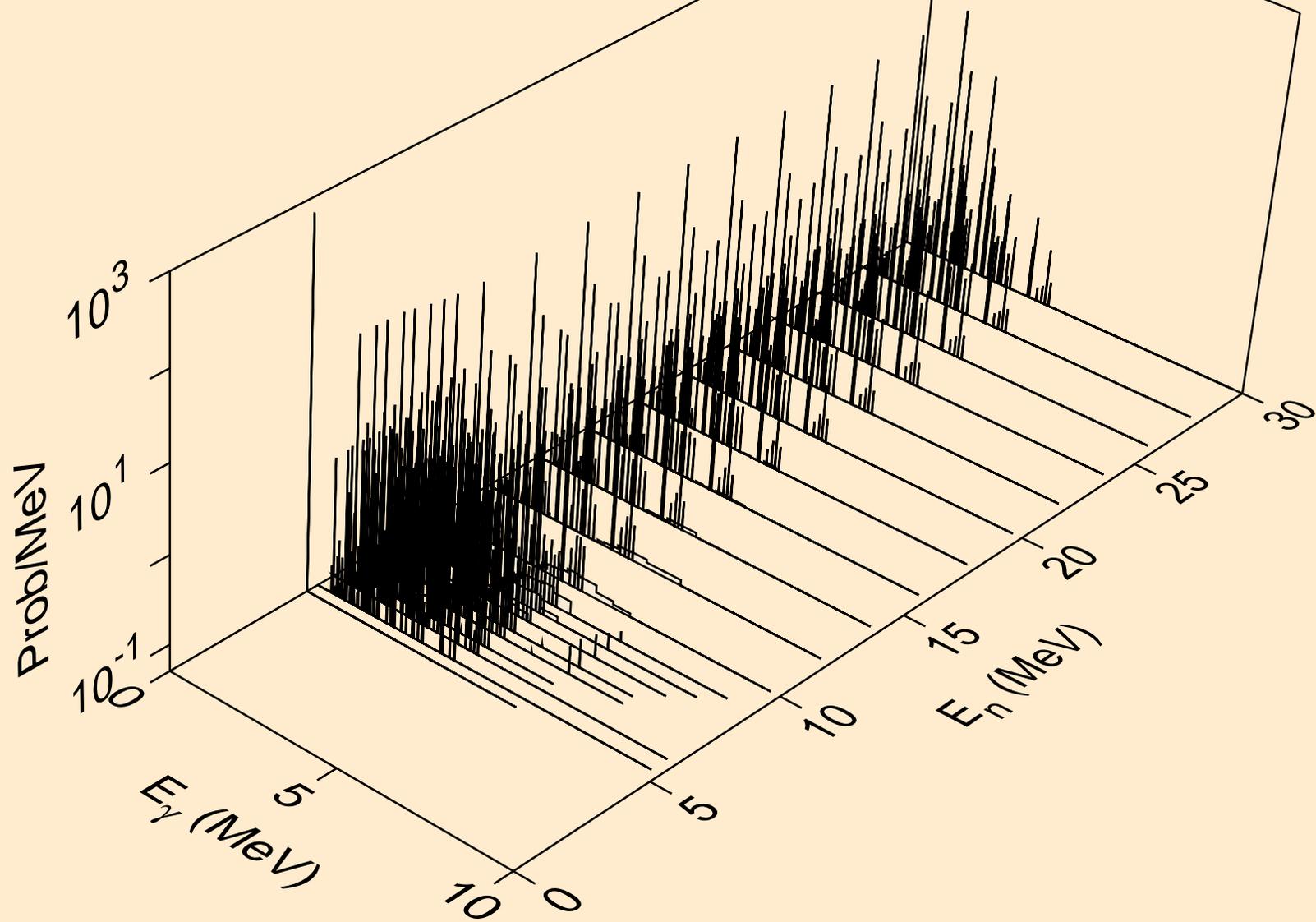Photon emission for (n,2np)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
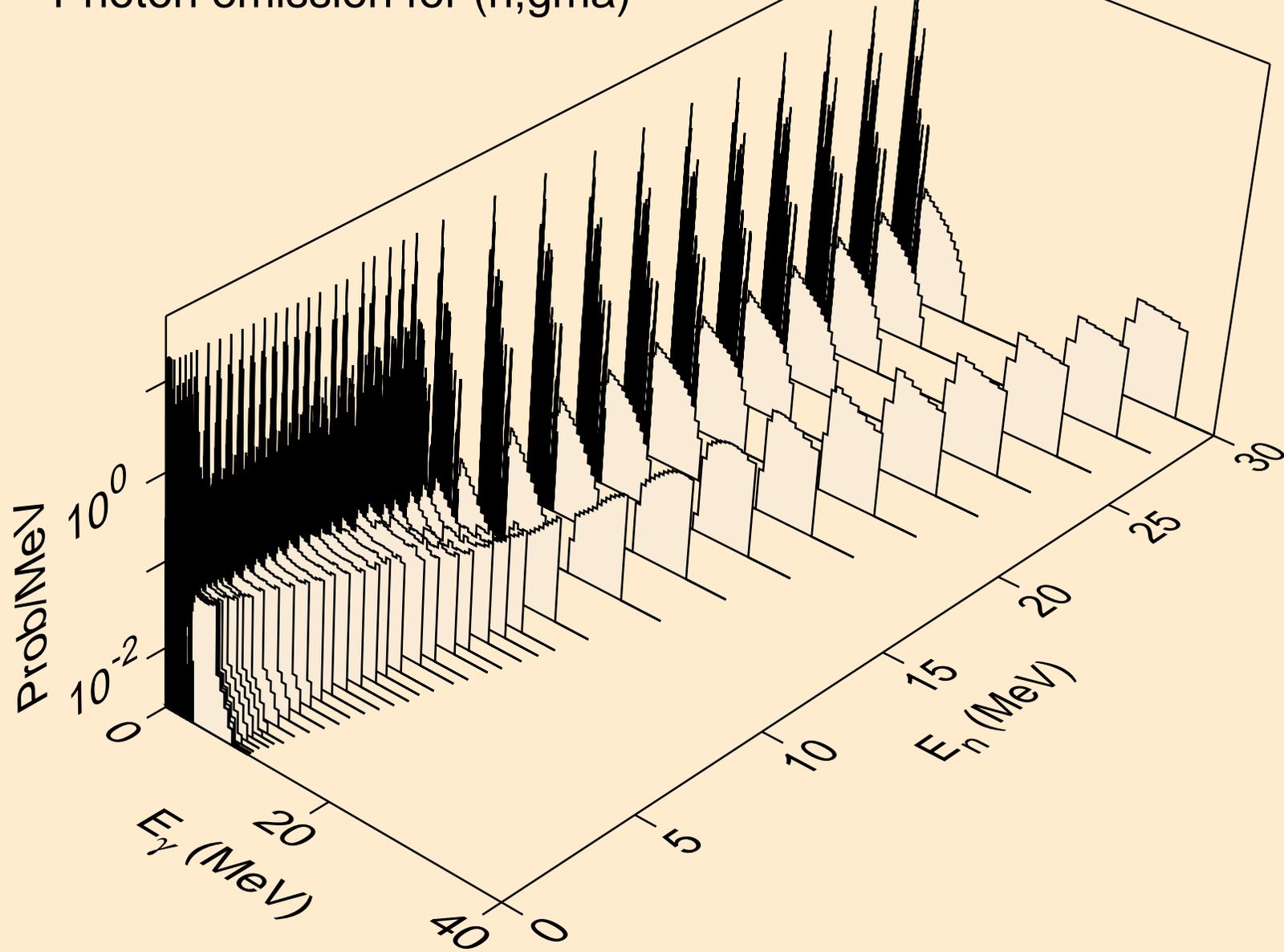Photon emission for (n,n2p)

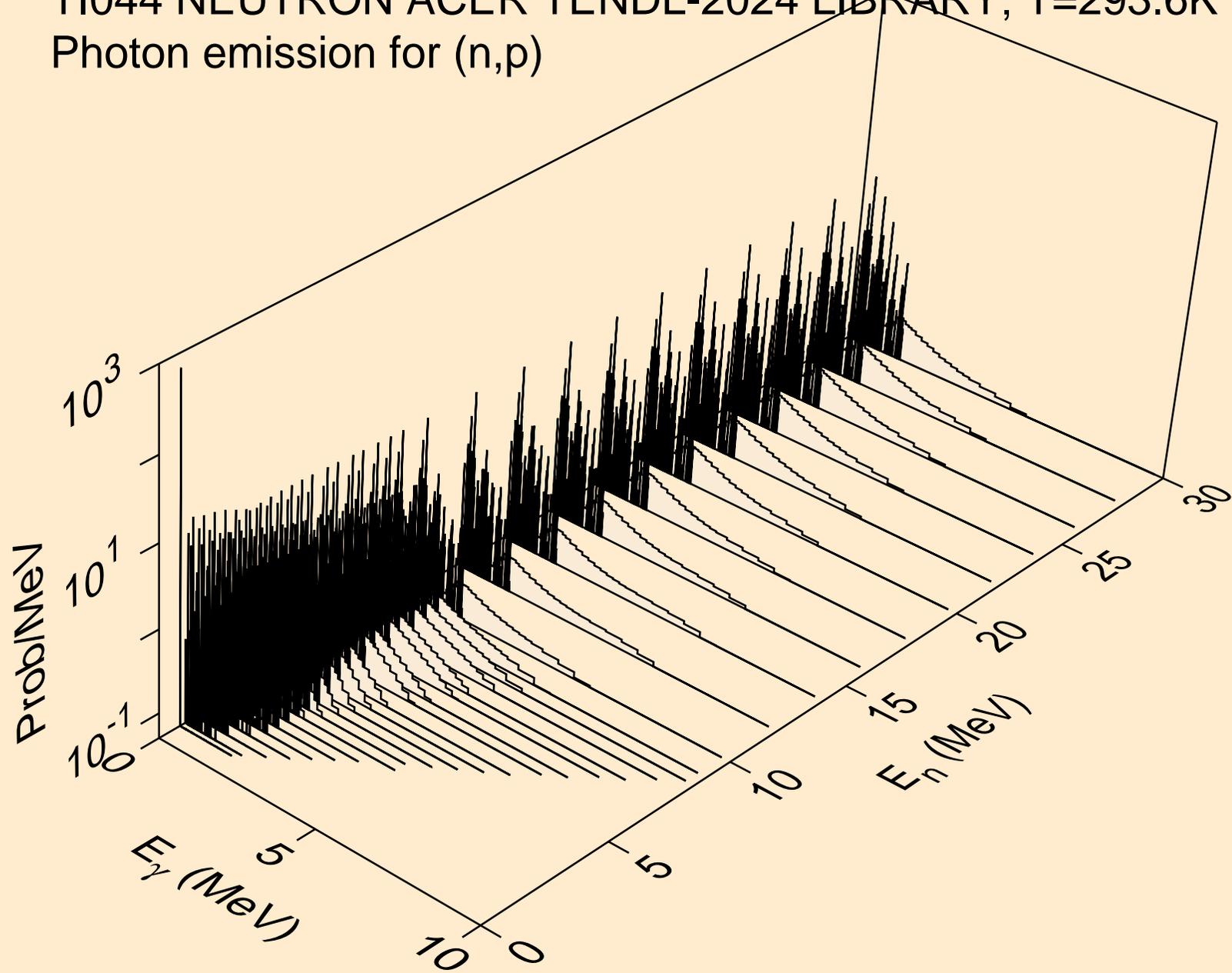TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Photon emission for (n,npa)

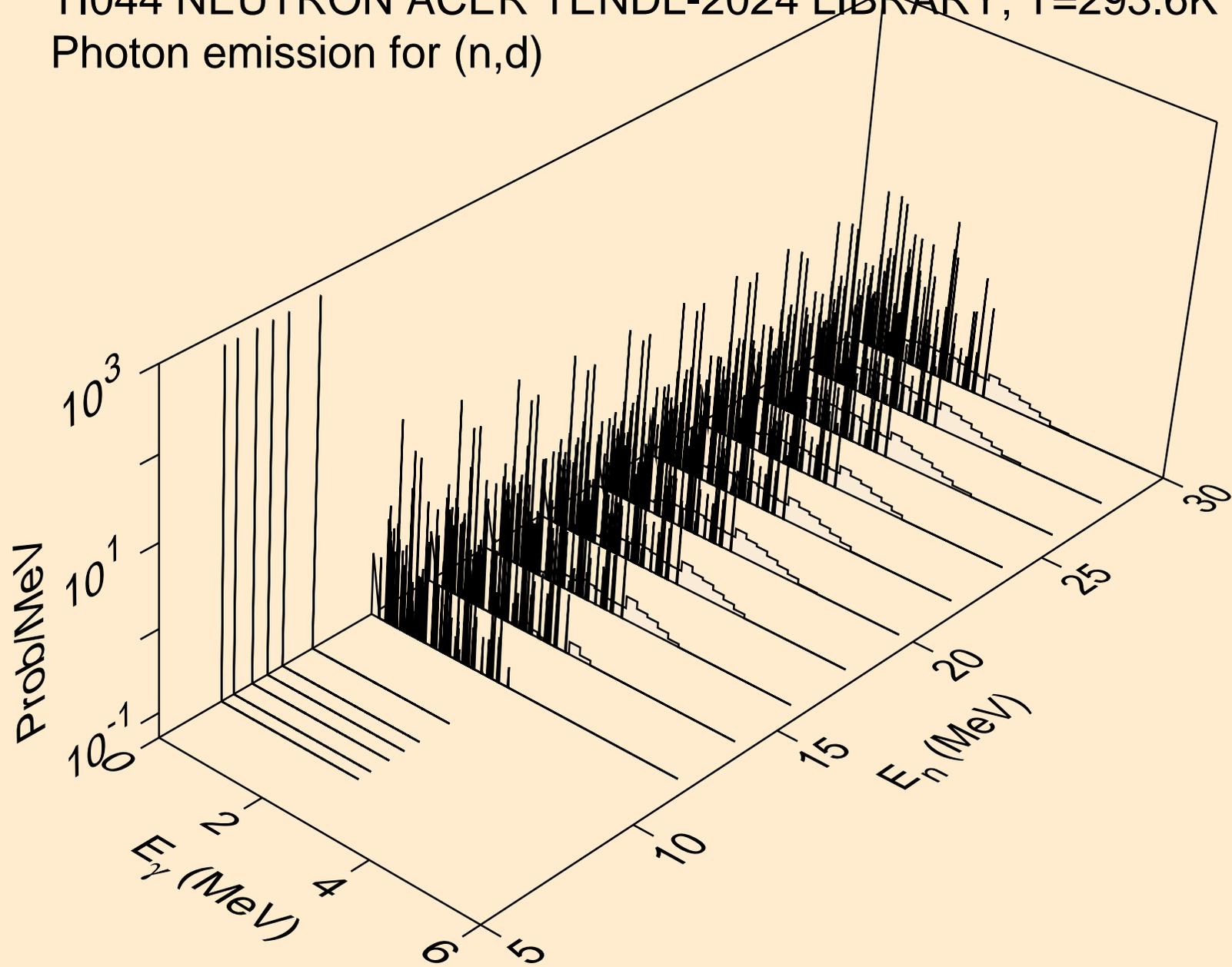TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Photon emission for (n,n*c)

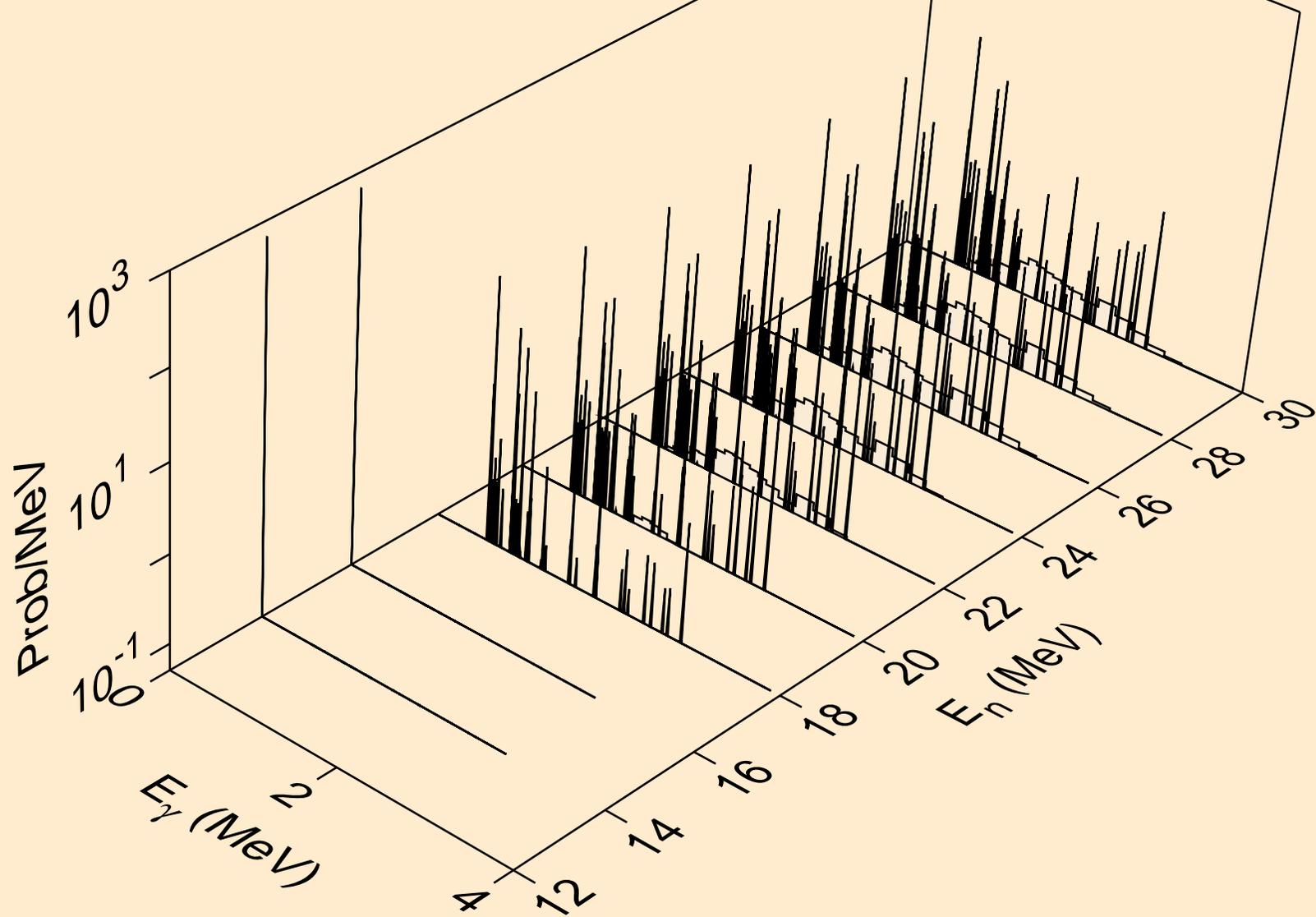TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Photon emission for (n,gma)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
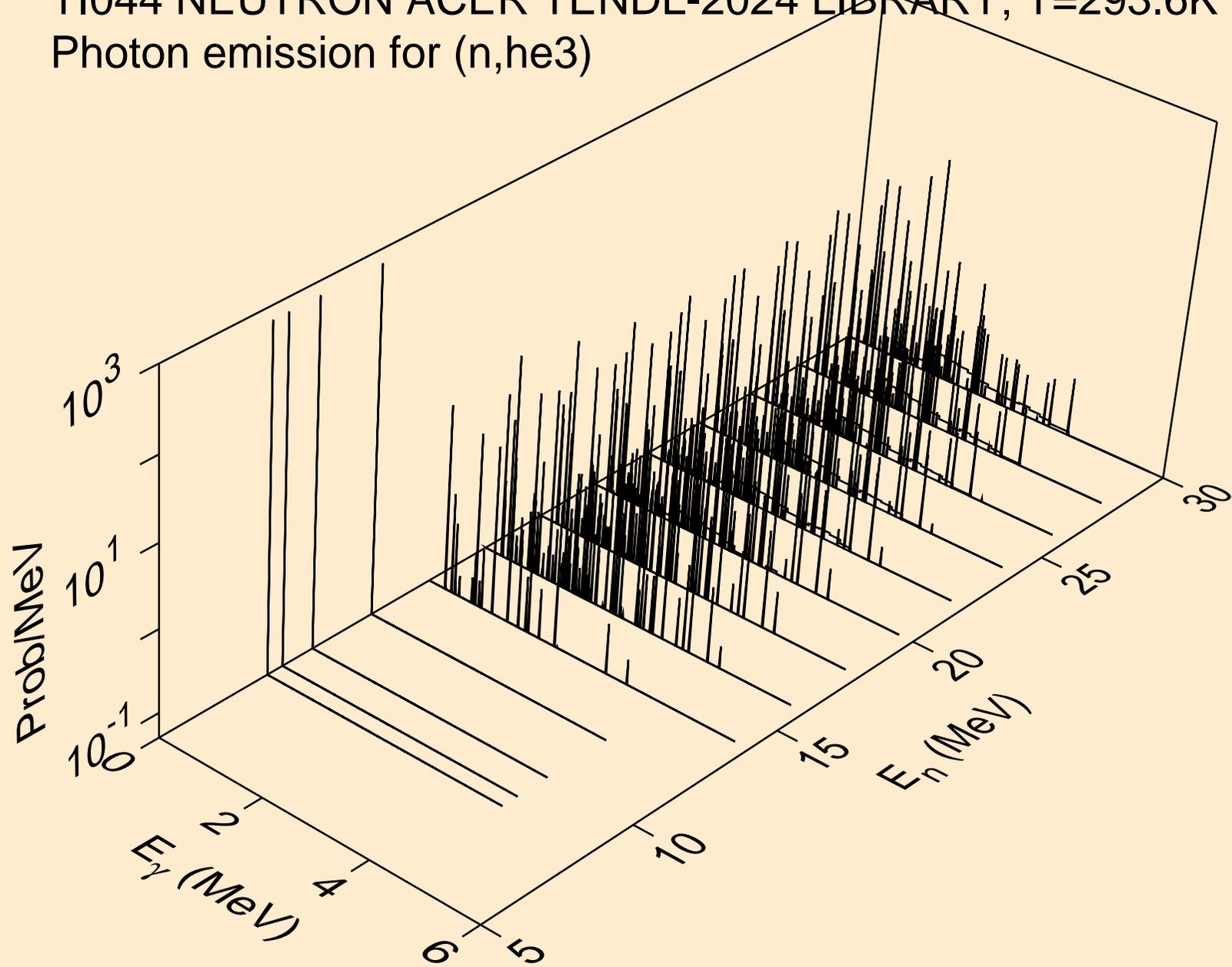Photon emission for (n,p)

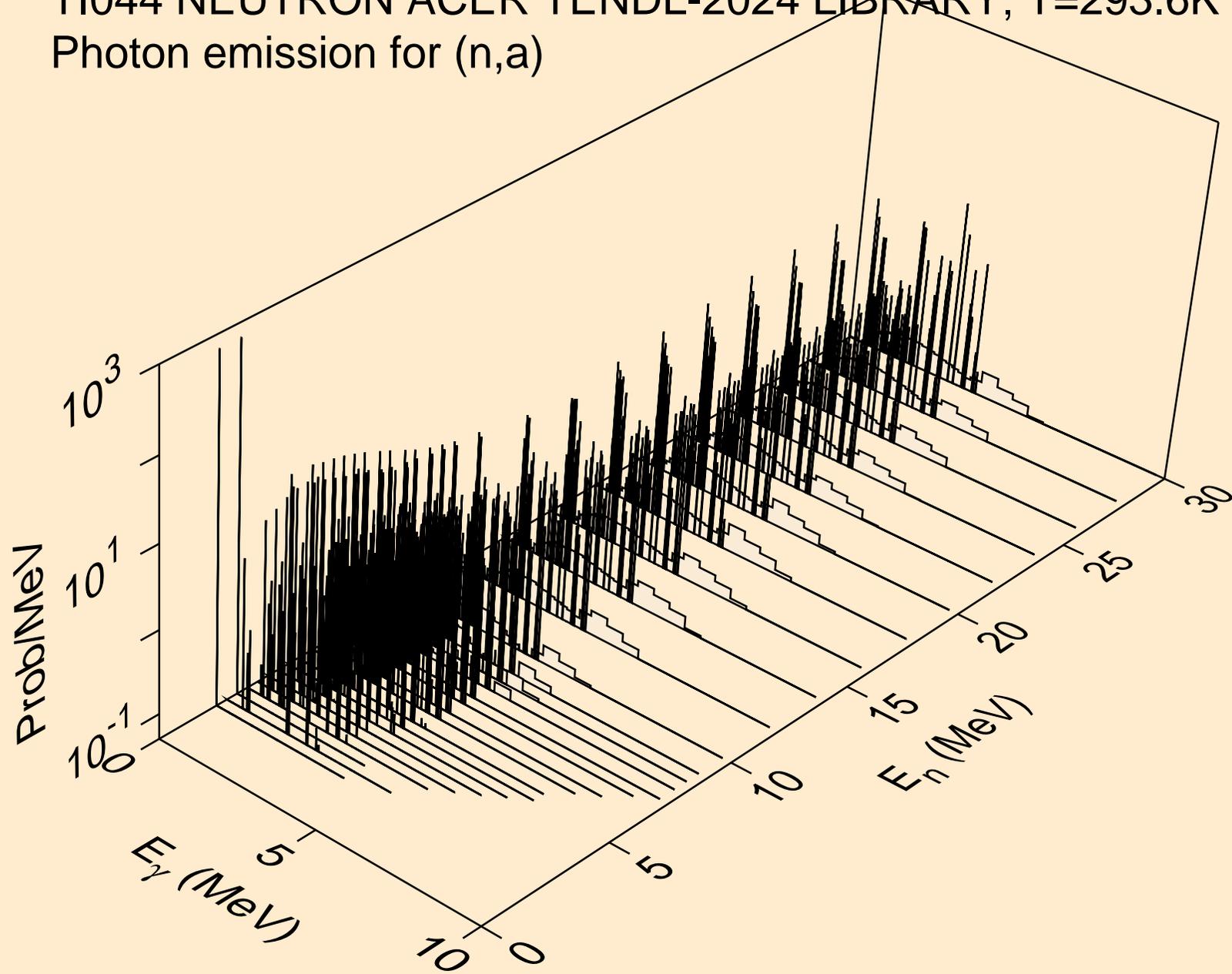TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Photon emission for (n,d)

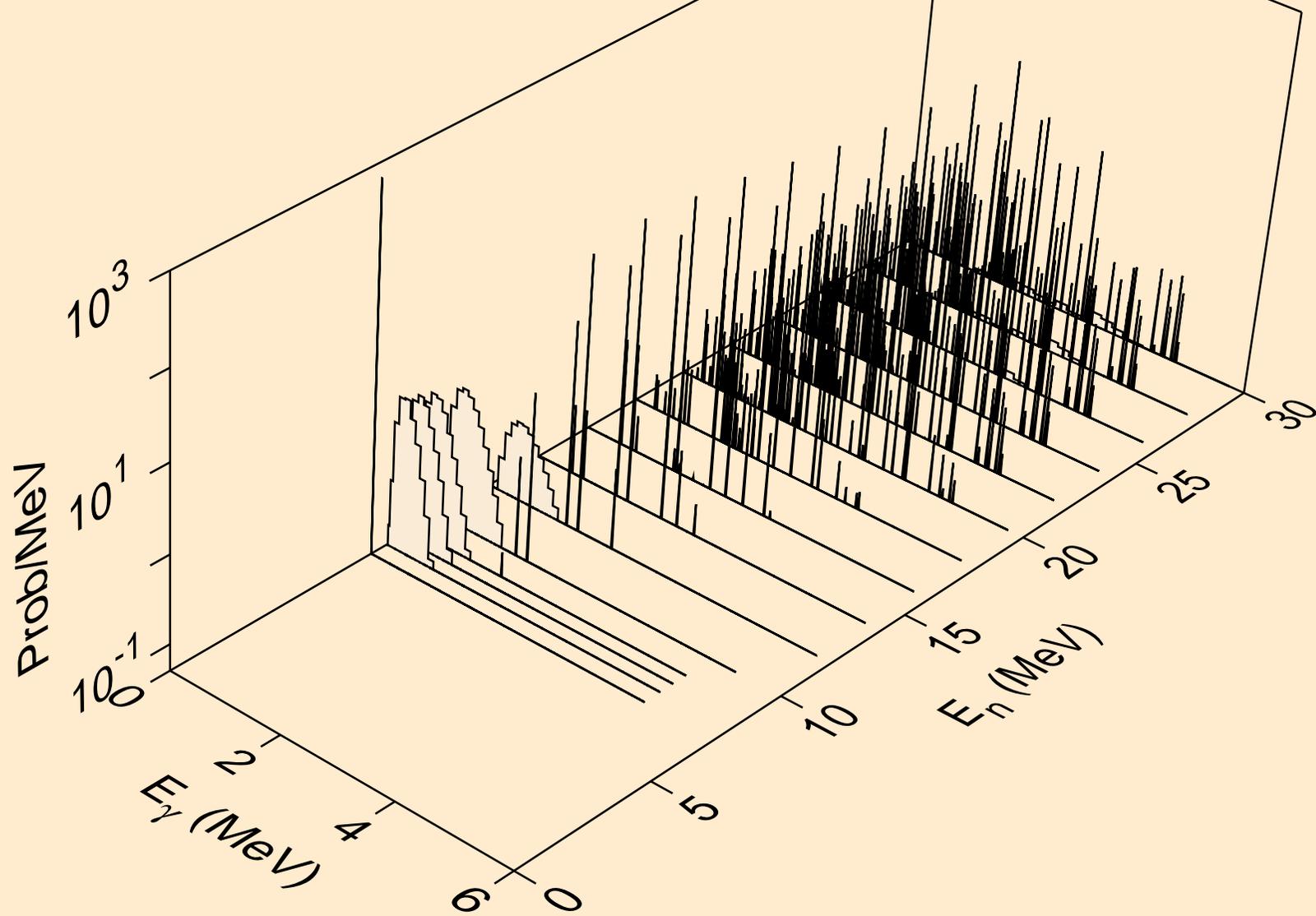TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Photon emission for (n,t)

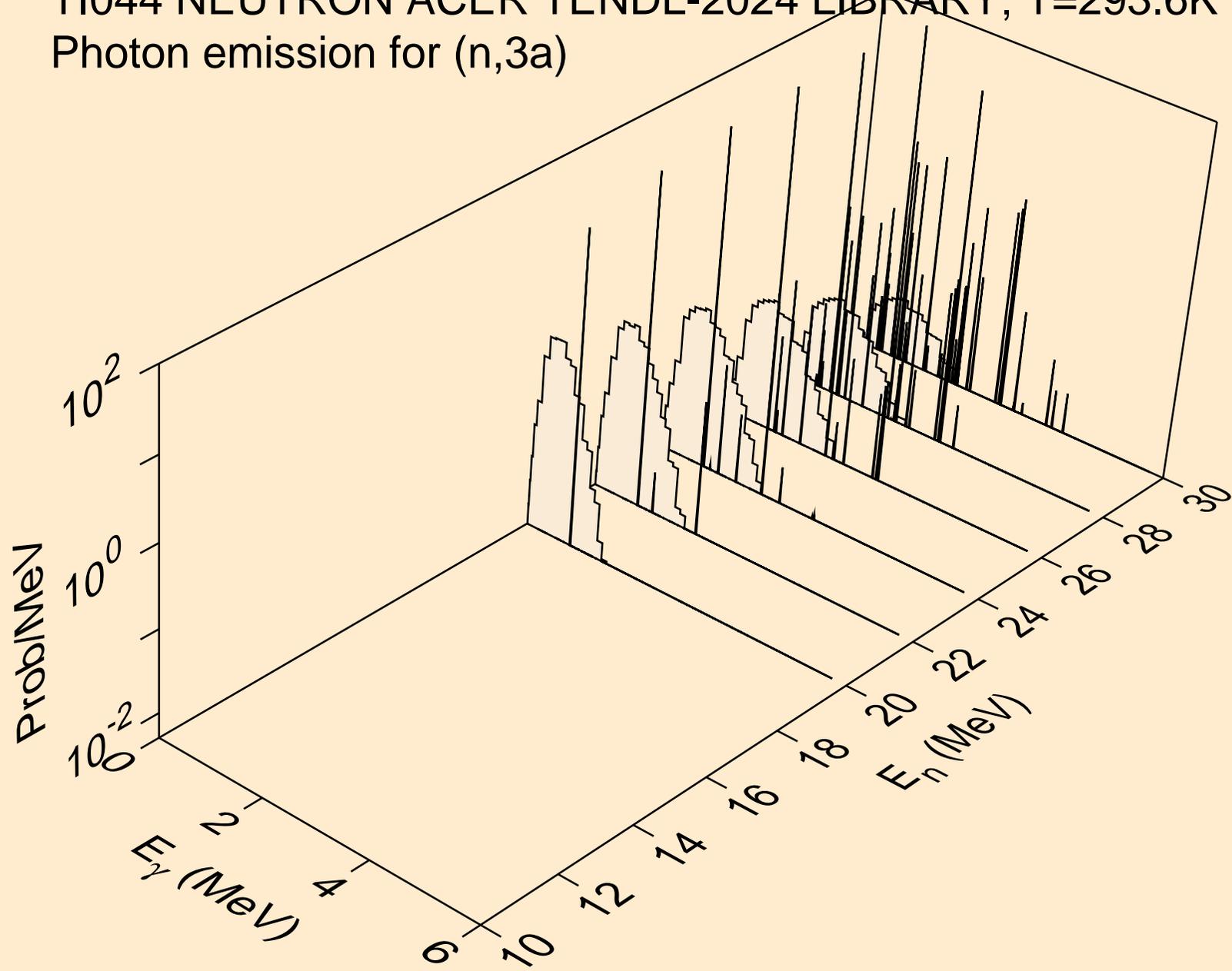TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Photon emission for (n,he3)

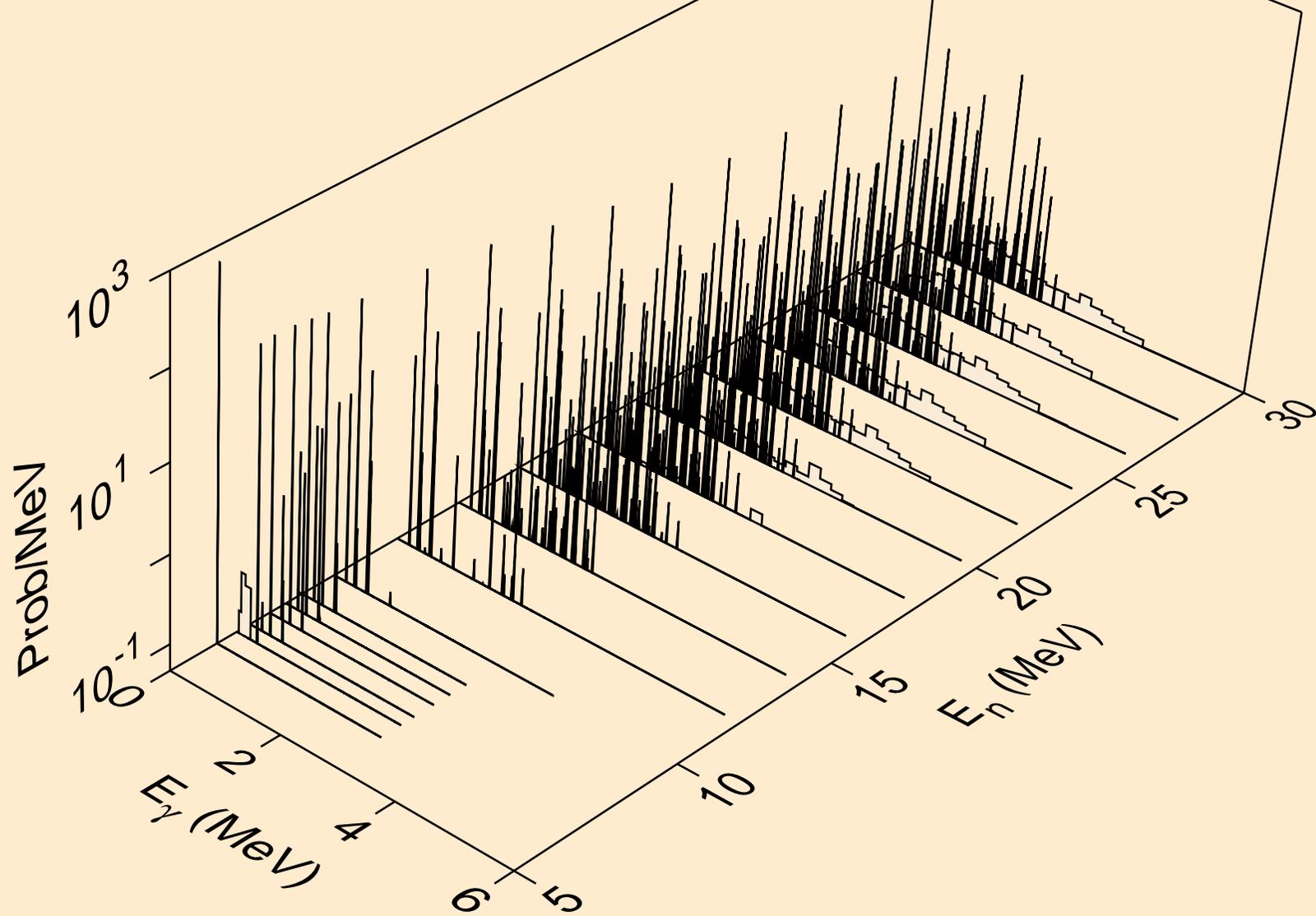TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Photon emission for (n,a)

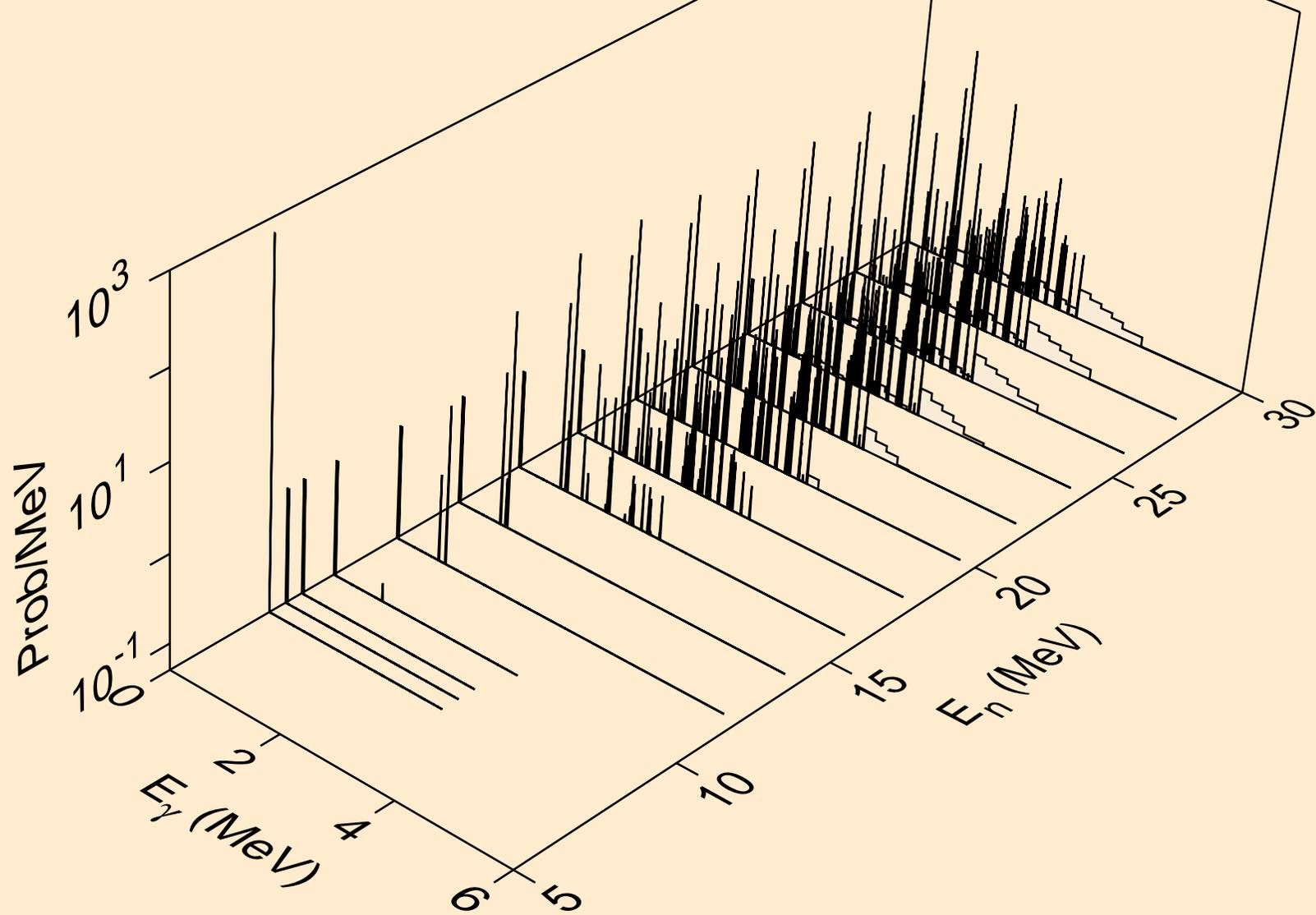TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Photon emission for (n,2a)

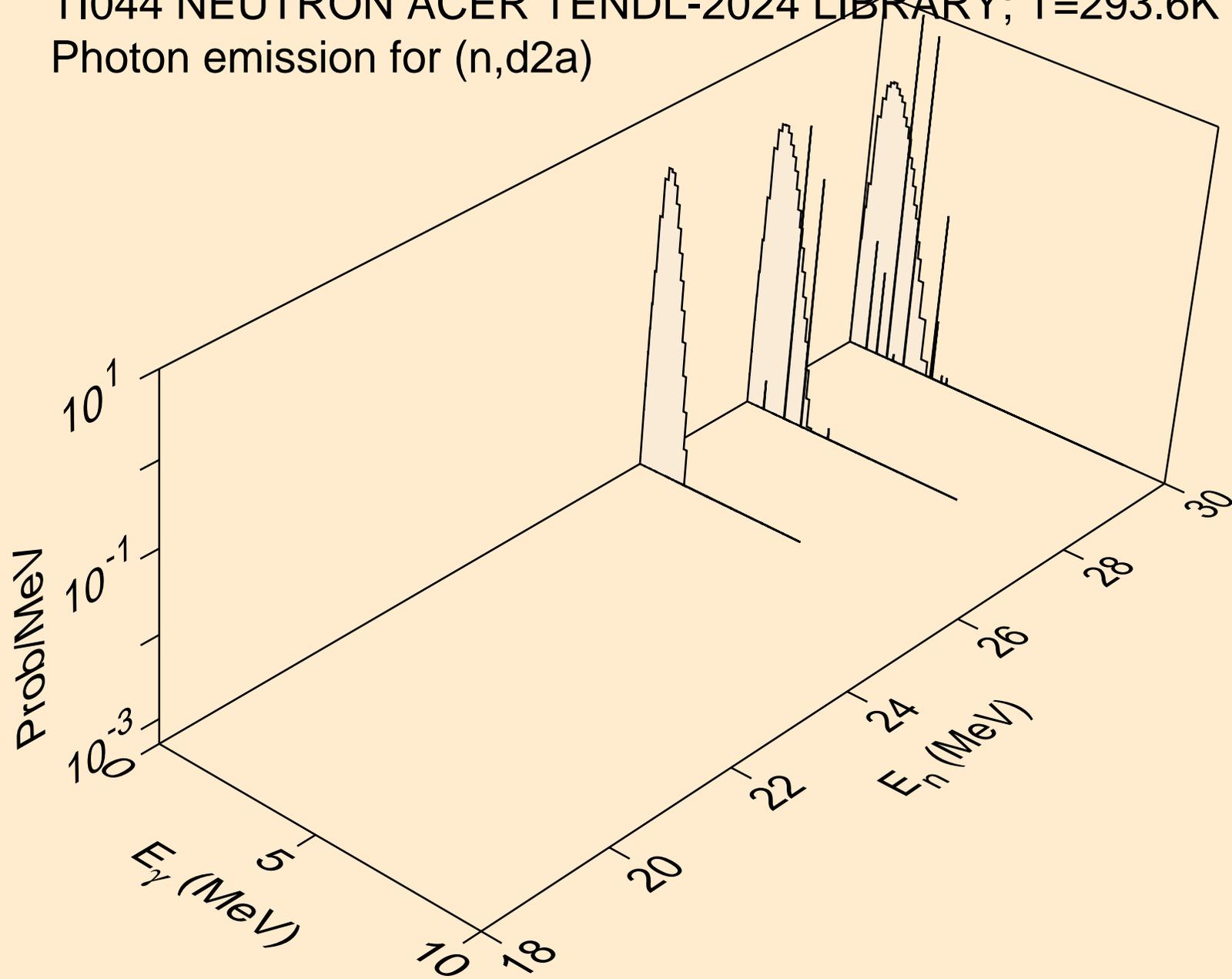TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Photon emission for (n,3a)

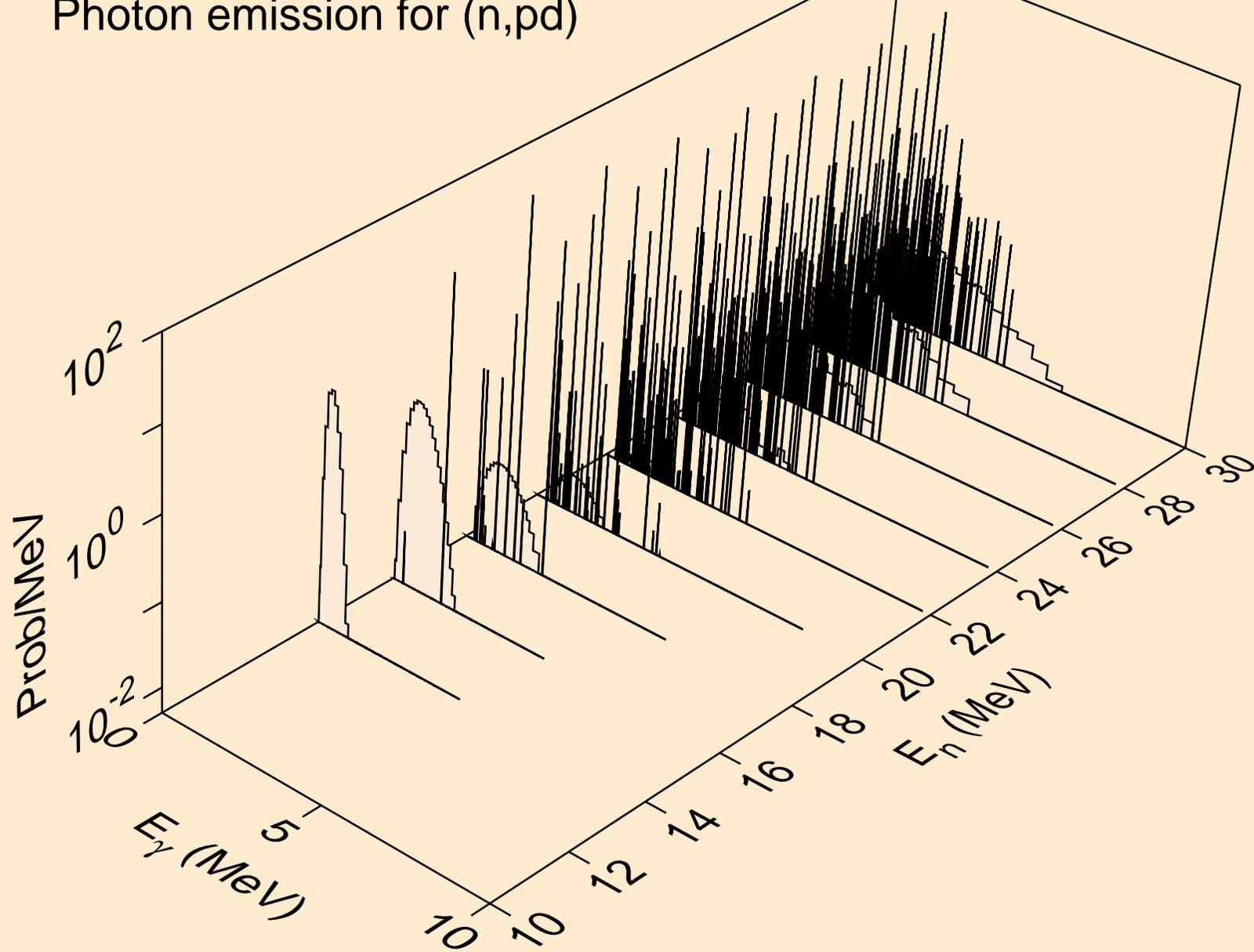TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Photon emission for (n,2p)

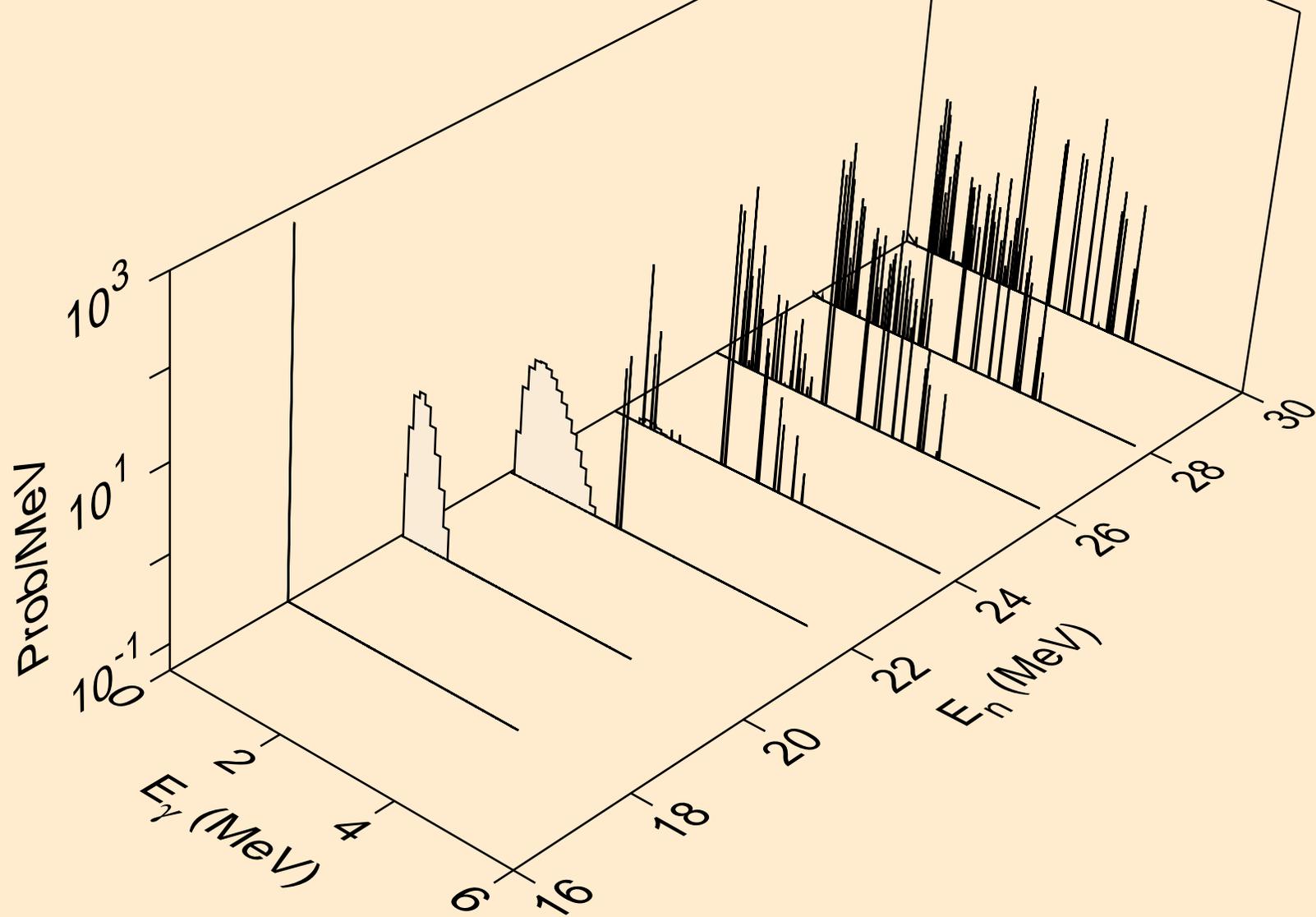TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Photon emission for (n,pa)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
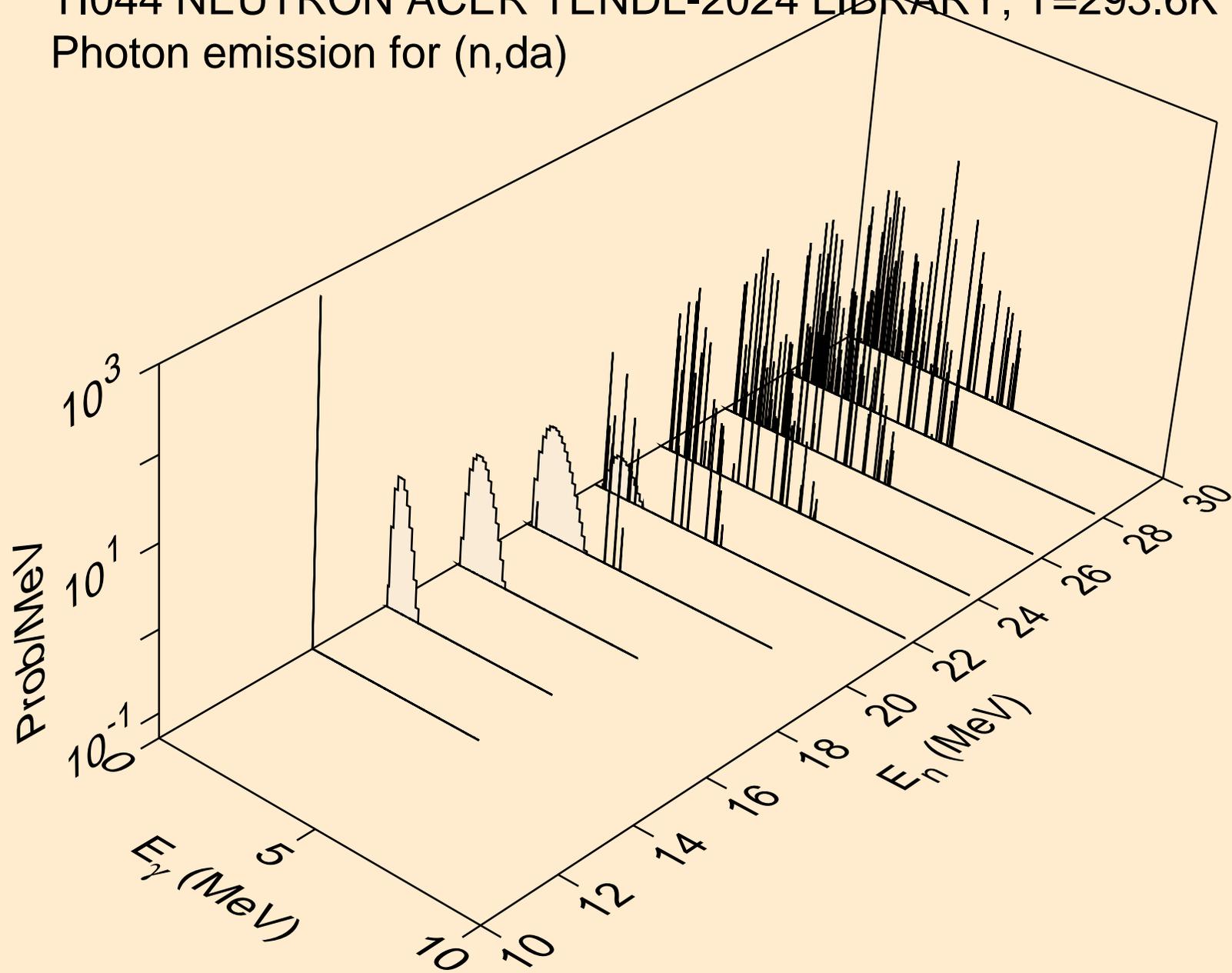Photon emission for (n,d2a)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
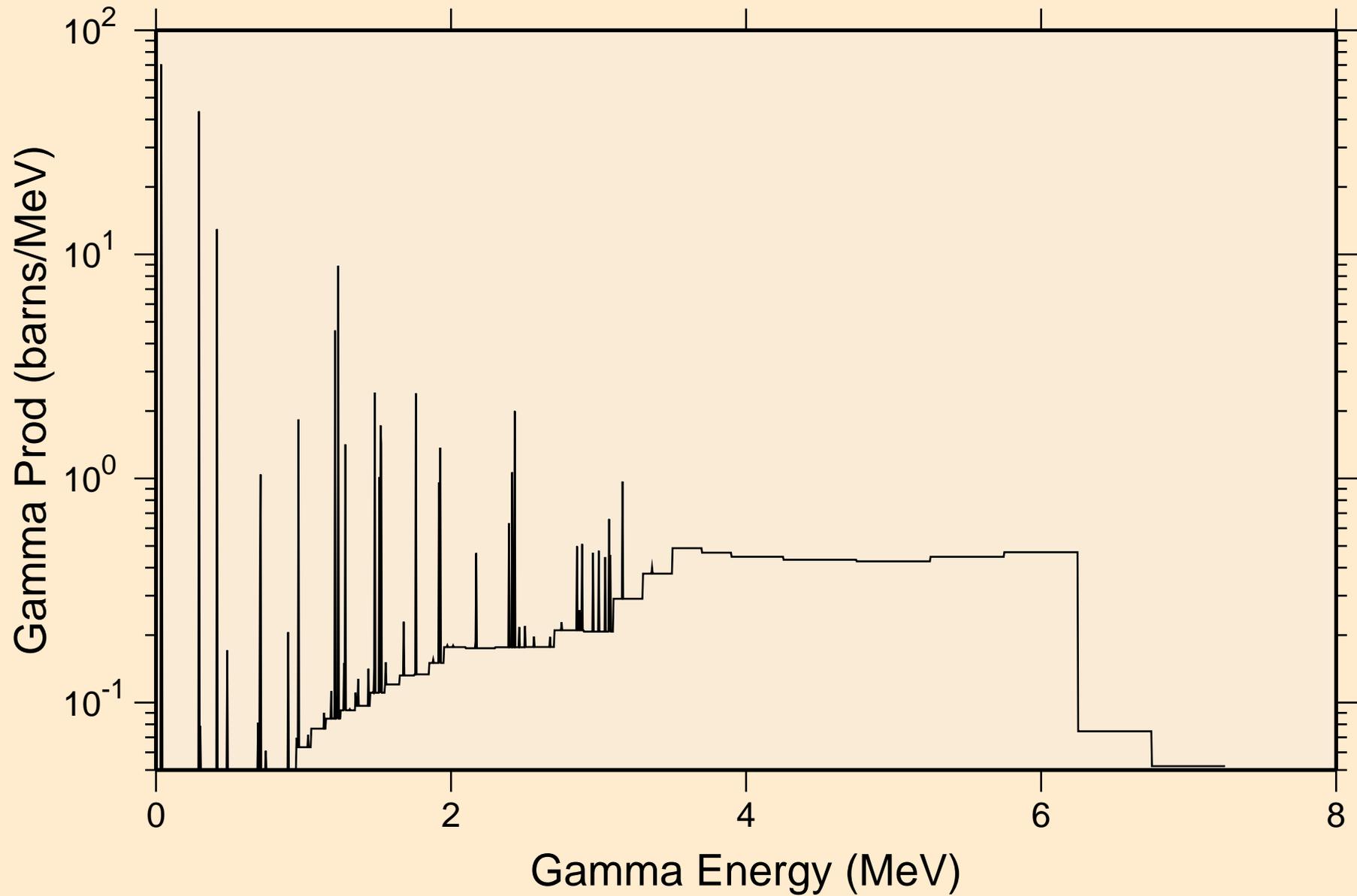Photon emission for (n,pd)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
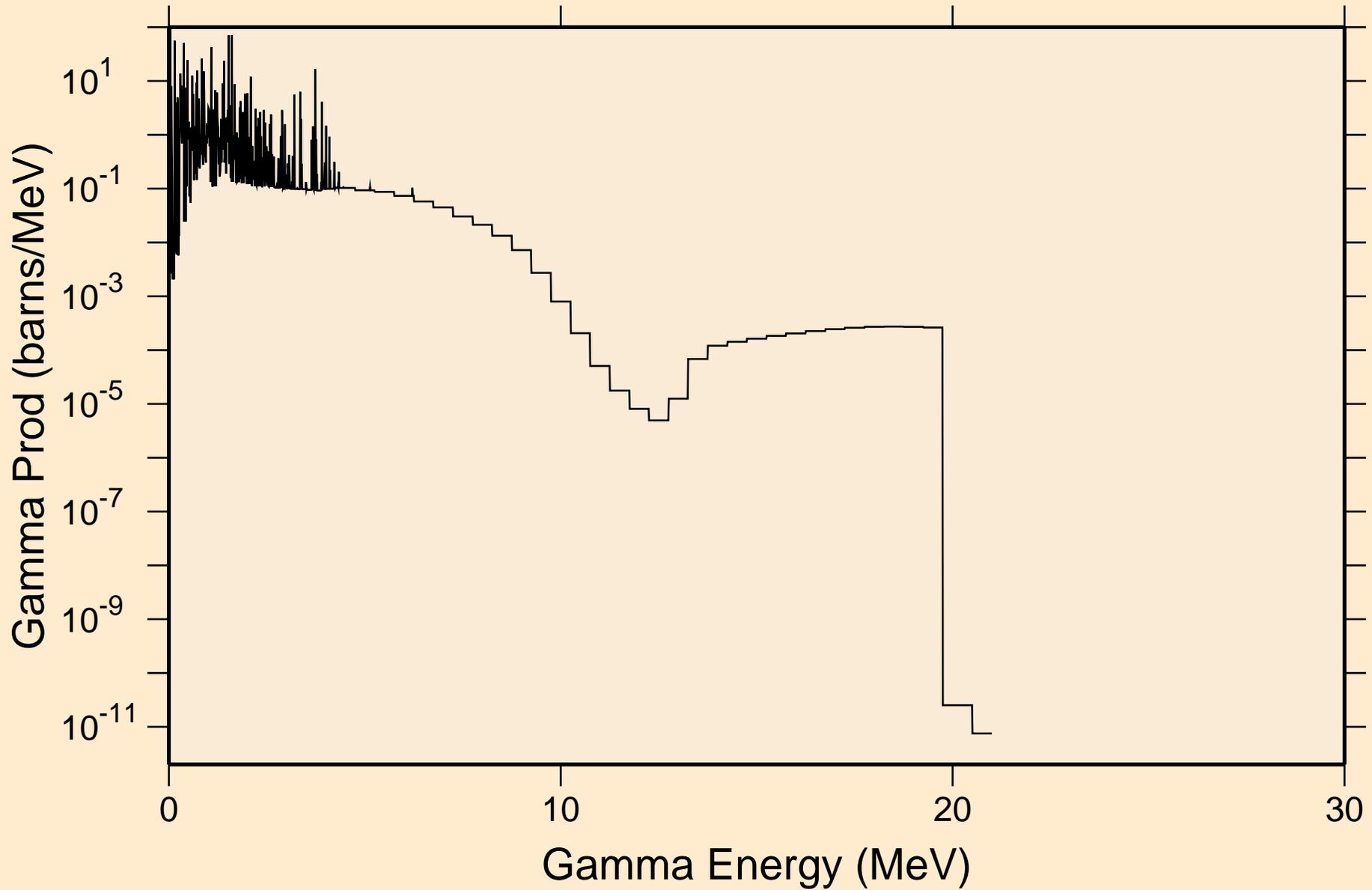Photon emission for (n,pt)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
Photon emission for (n,da)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
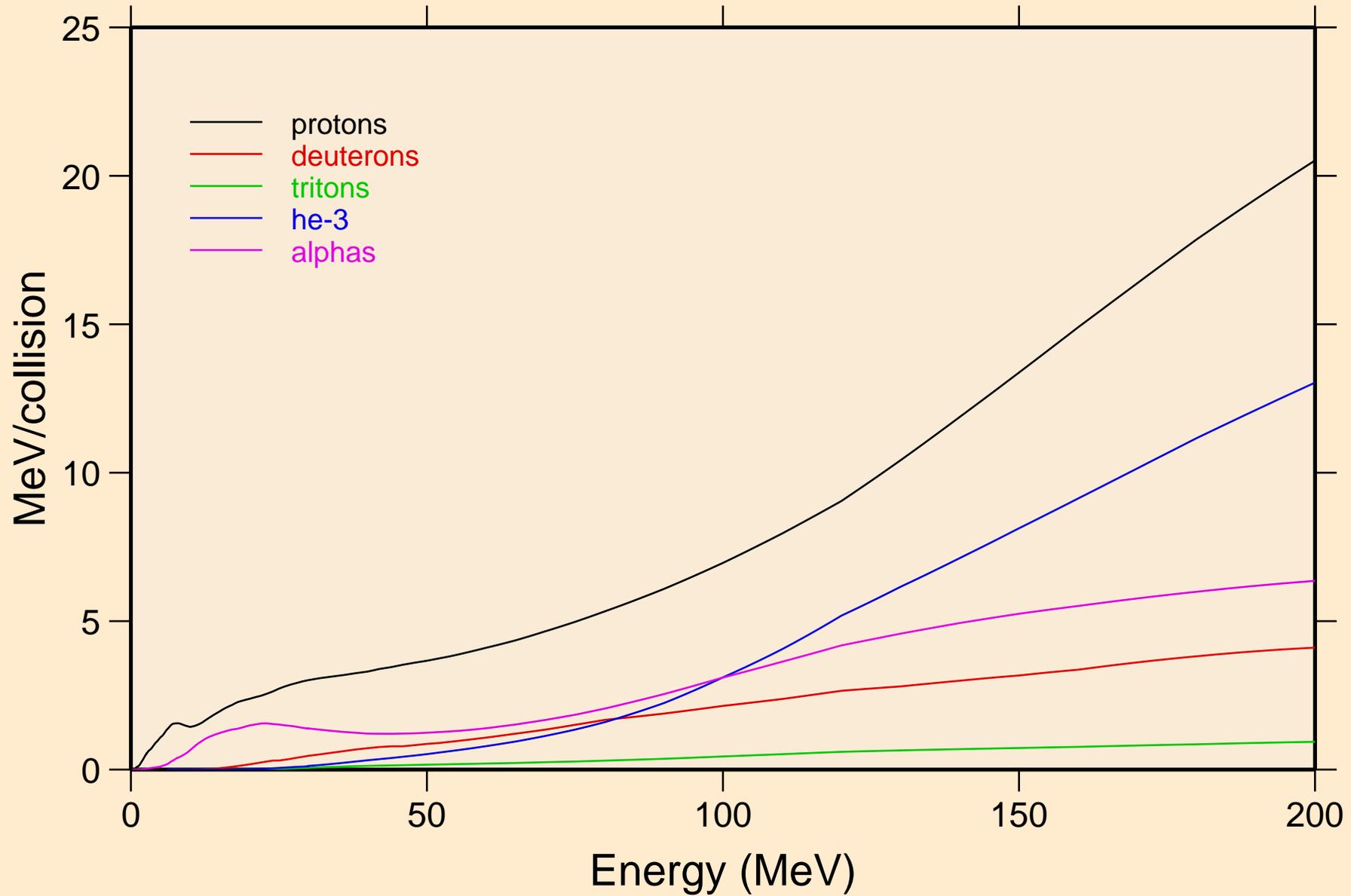thermal capture photon spectrum

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
14 MeV photon spectrum

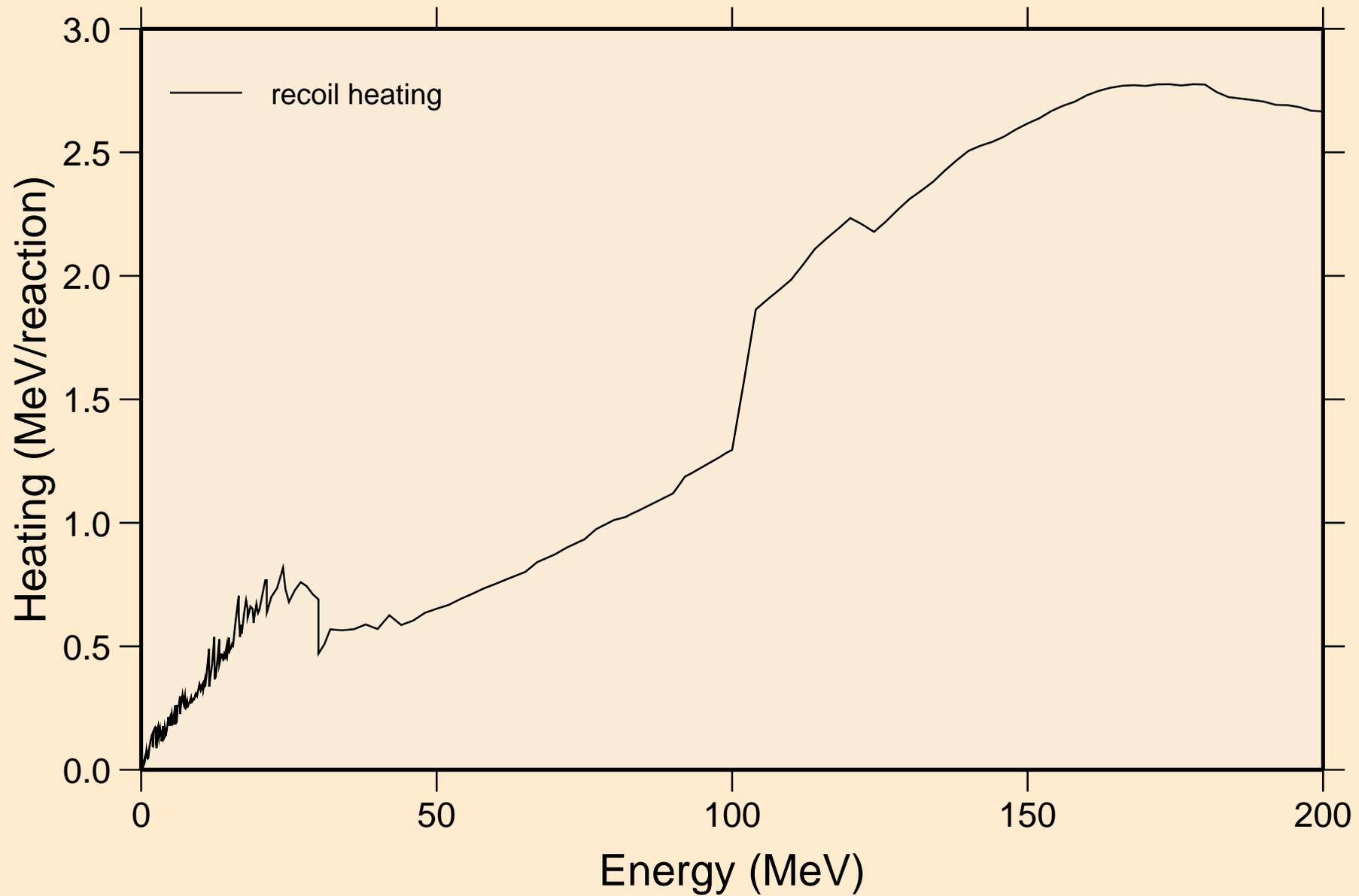Gamma Prod (barns/MeV)

Gamma Energy (MeV)

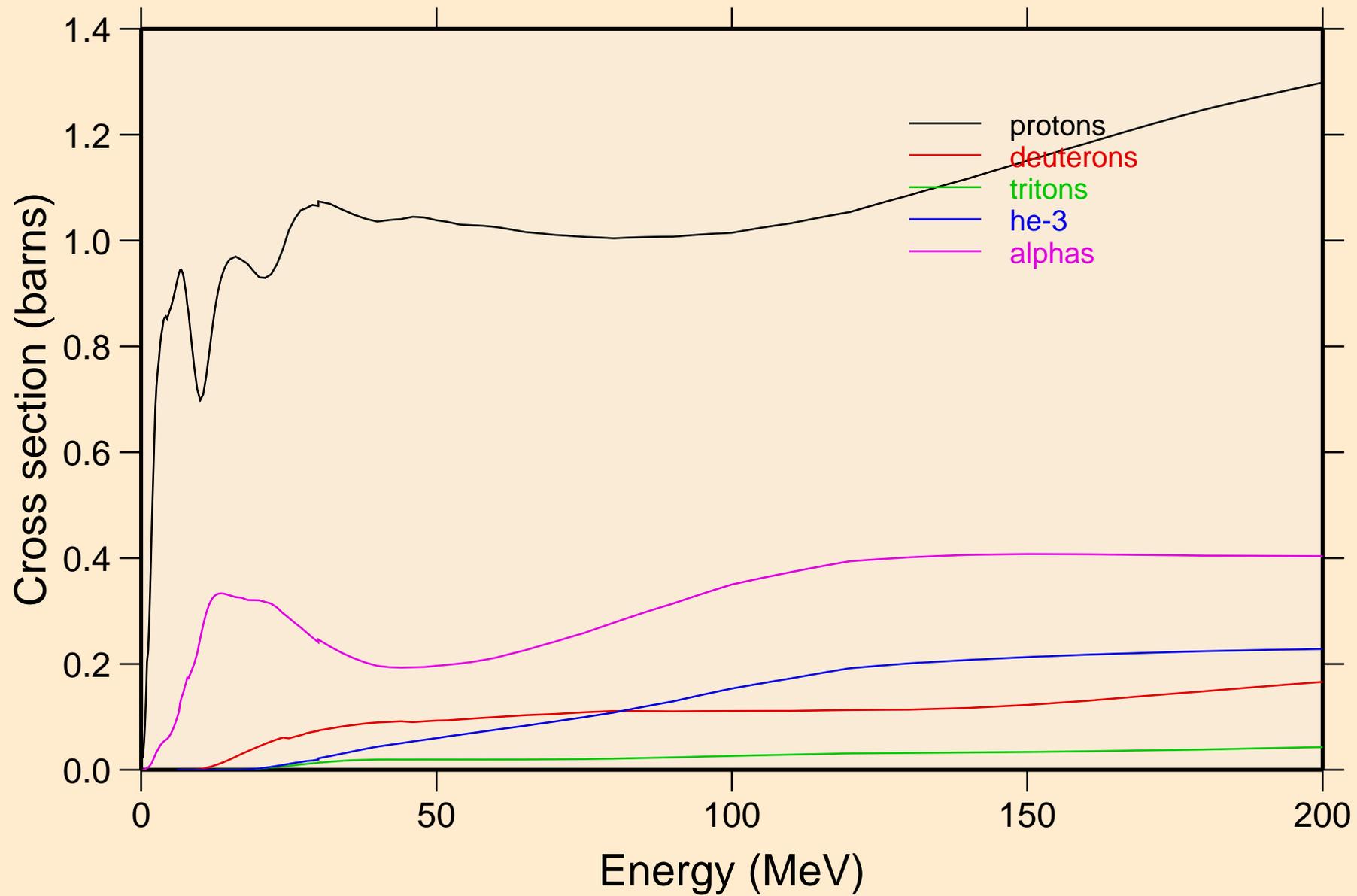TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
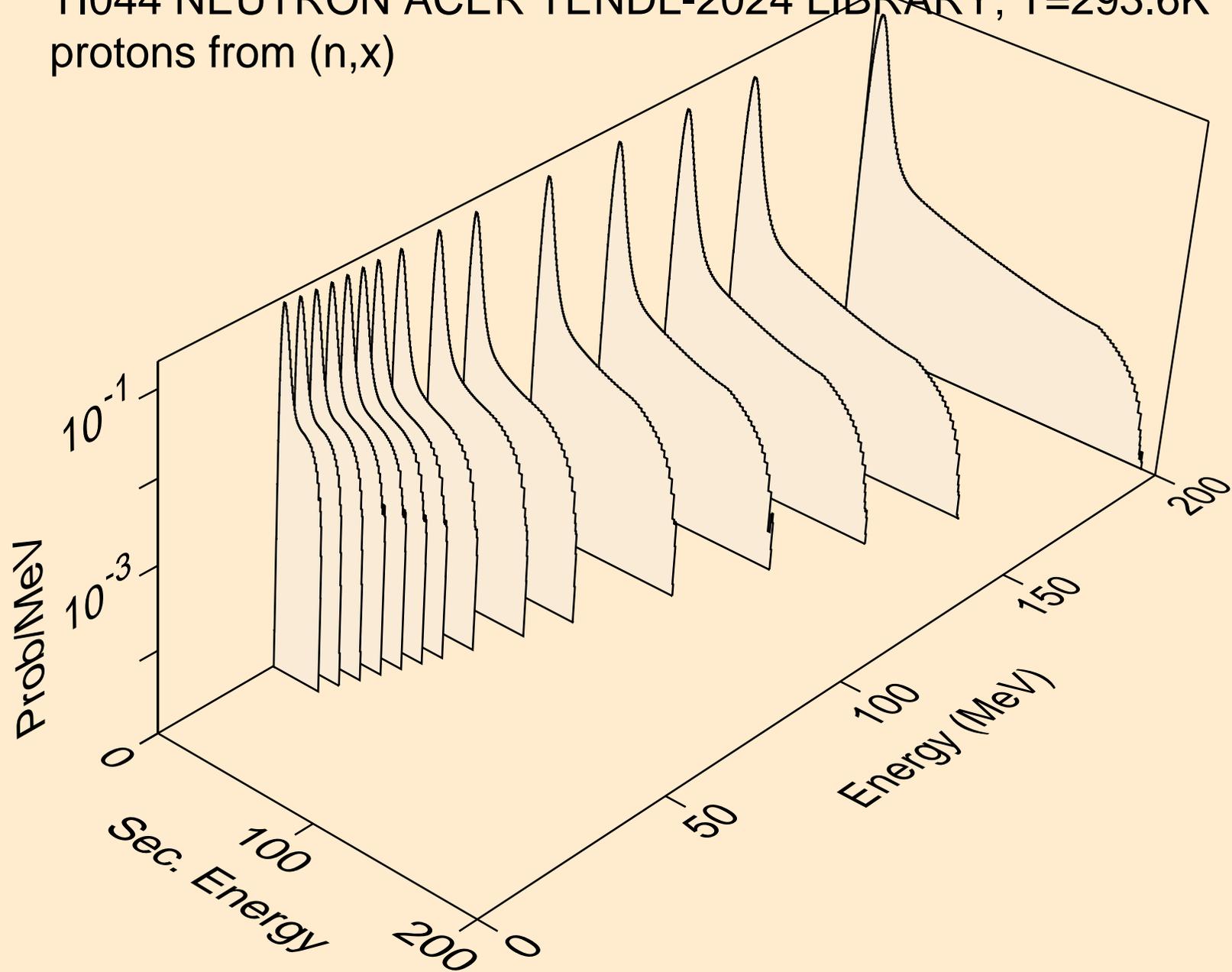Particle heating contributions

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
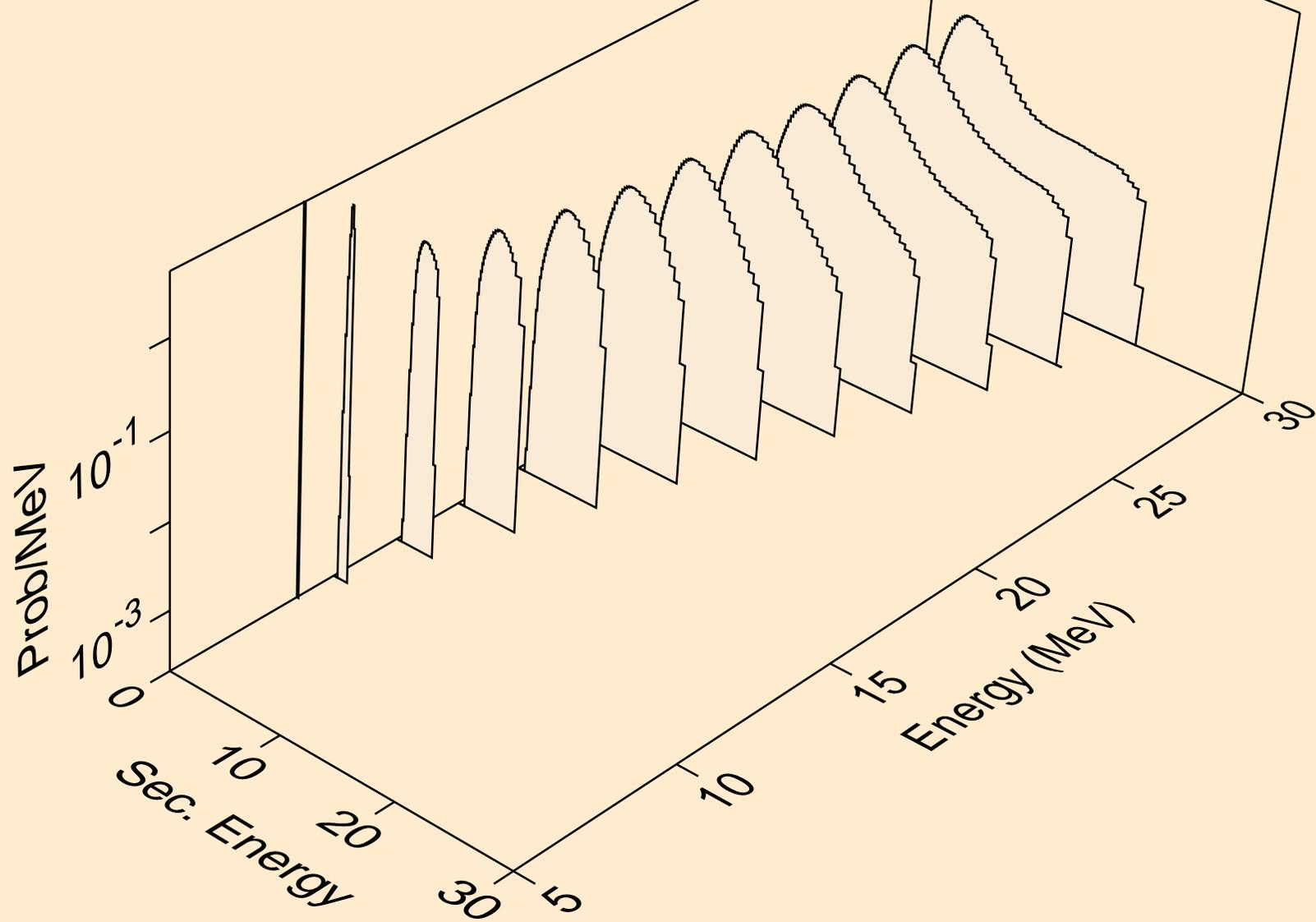Recoil Heating

recoil heating

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
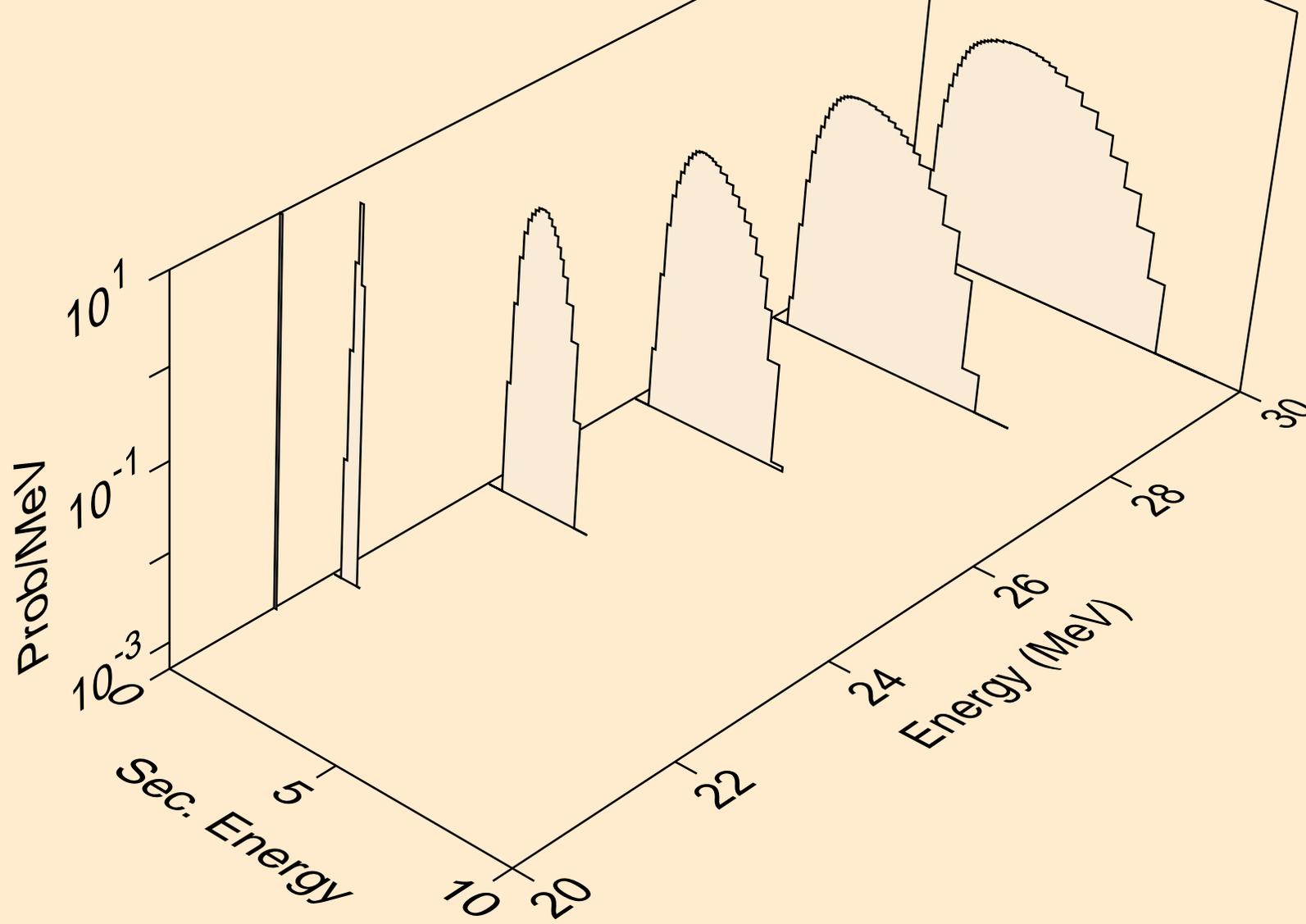Particle production cross sections

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
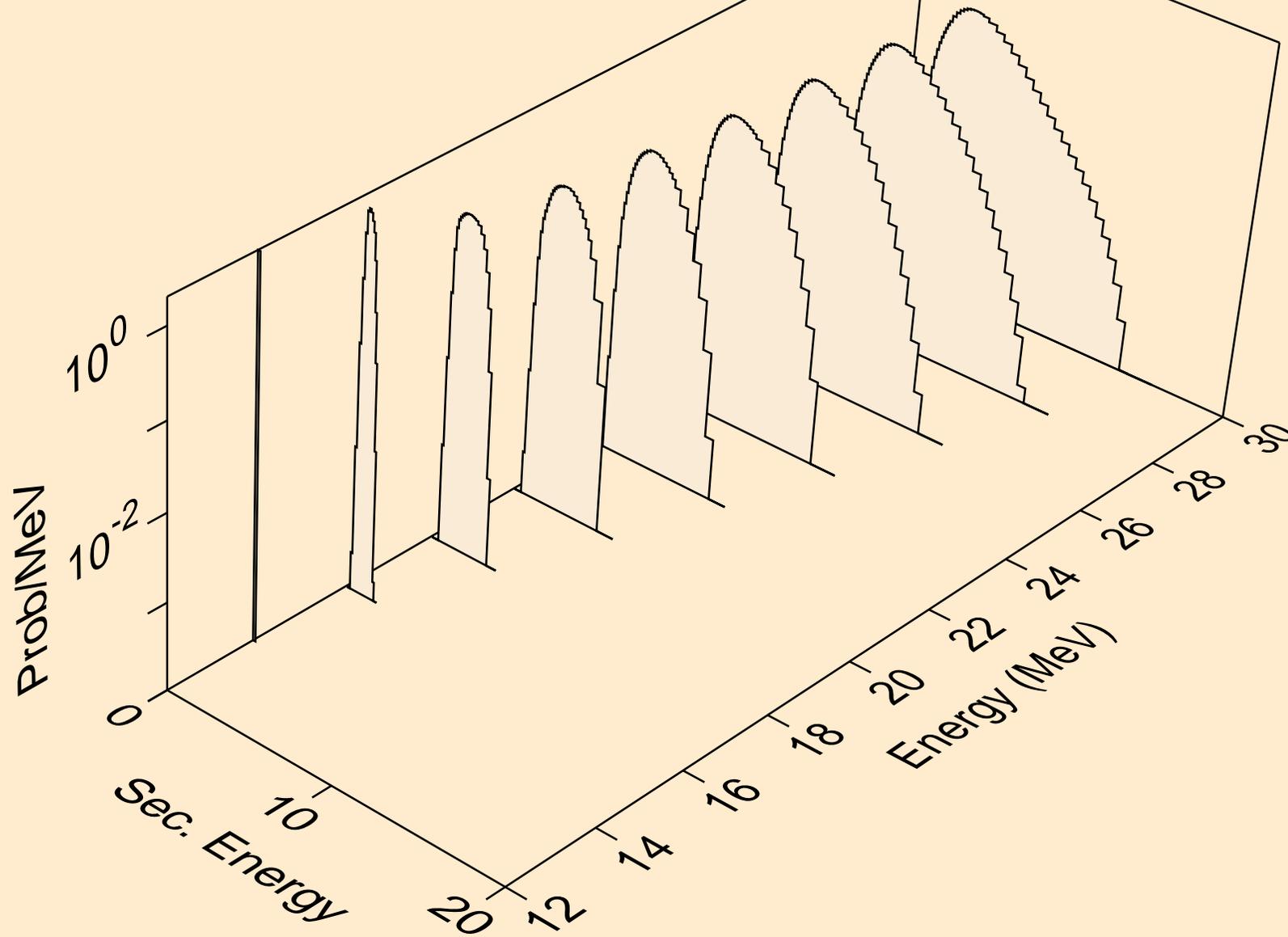protons from (n,x)

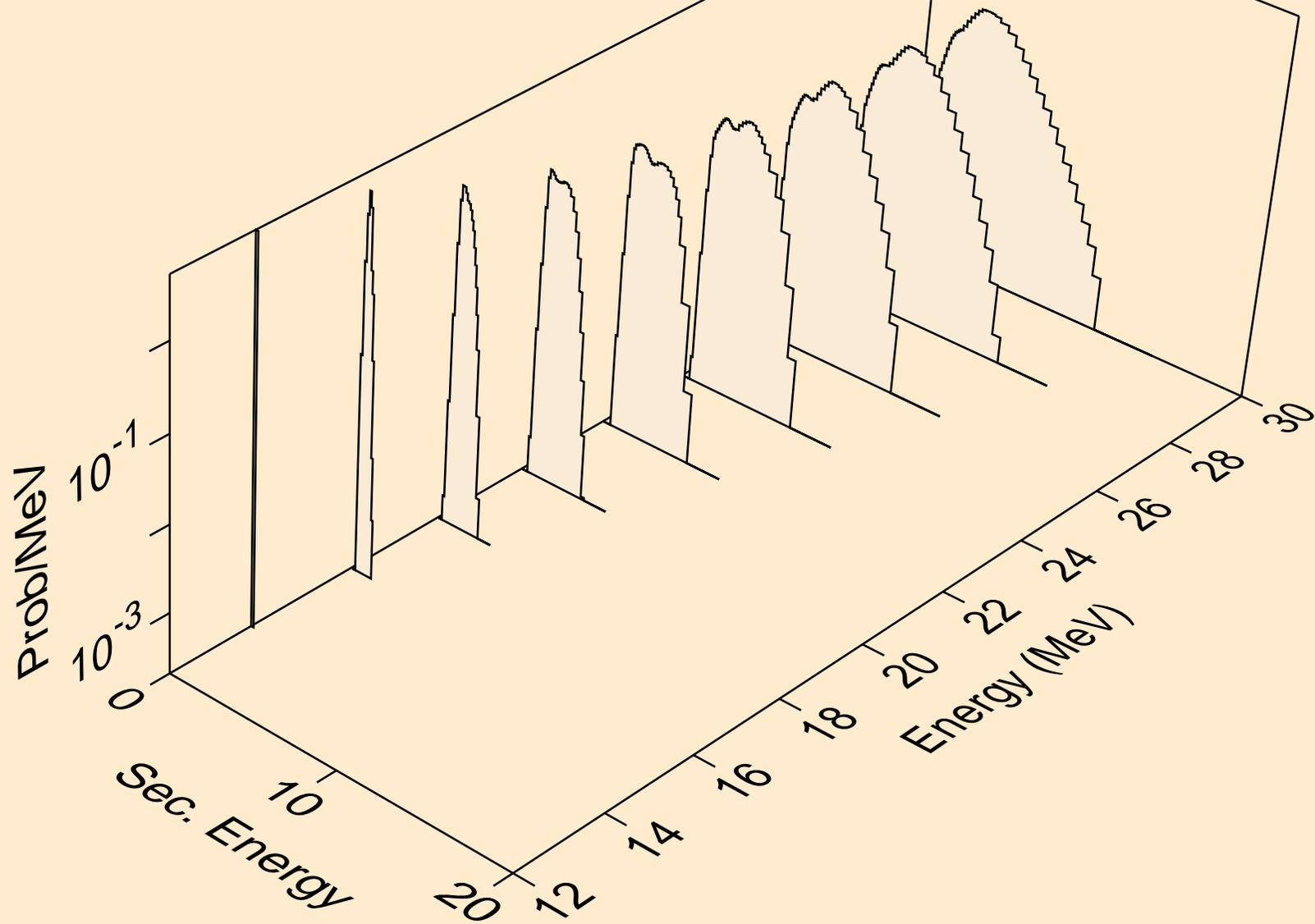TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
protons from (n,n*)p

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
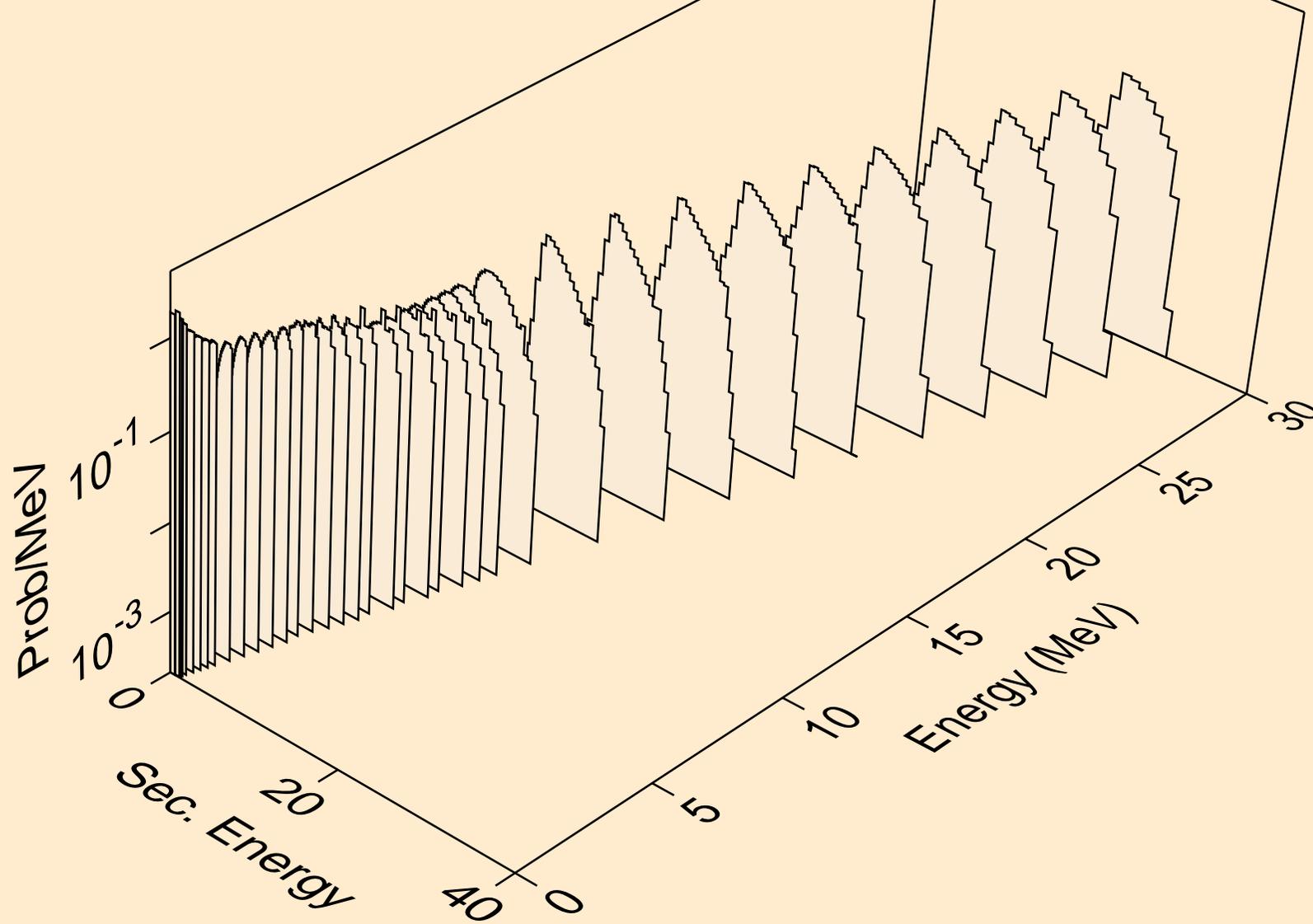protons from (n,2np)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
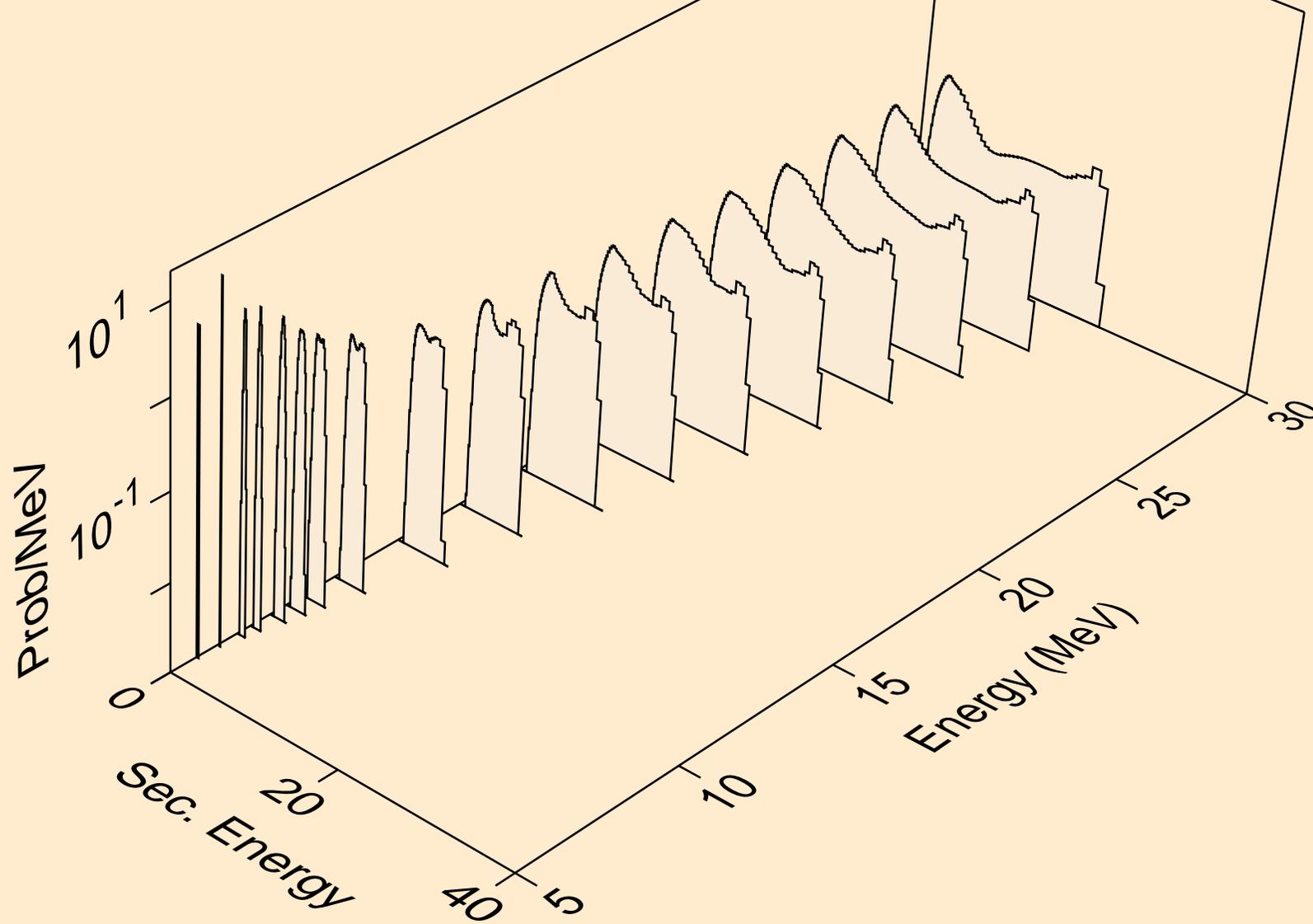protons from (n,n2p)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
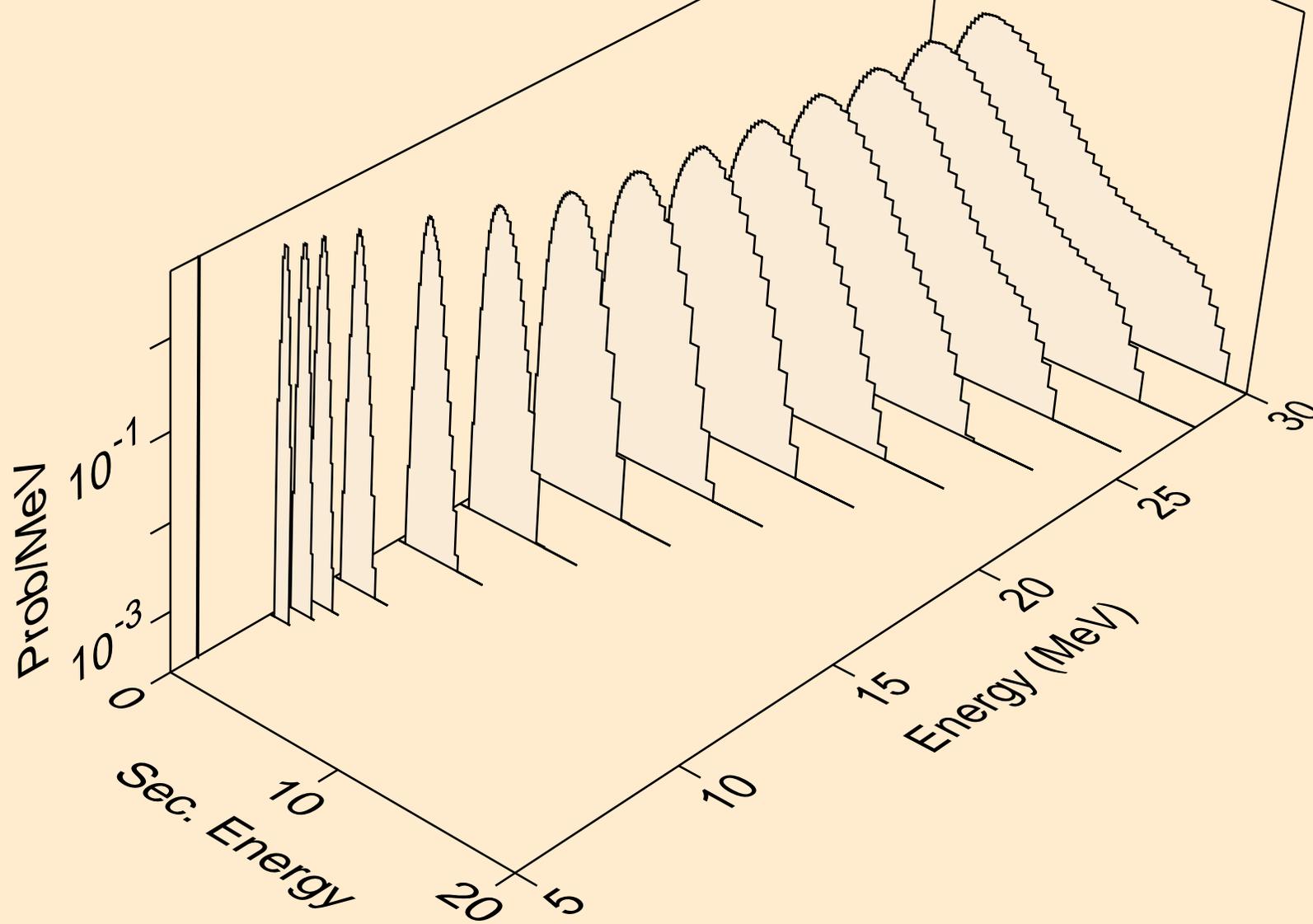protons from (n,npa)

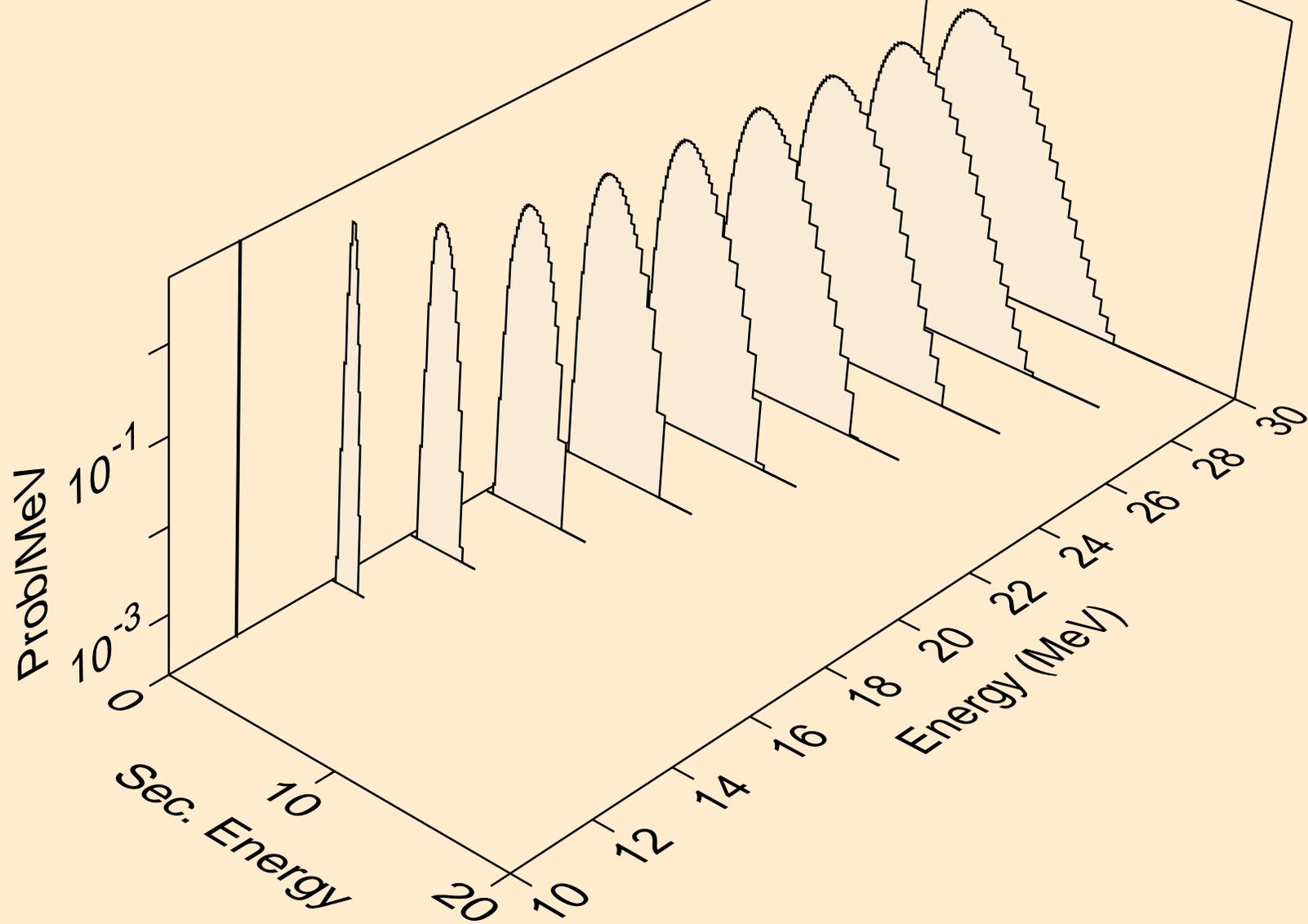TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
protons from (n,p)

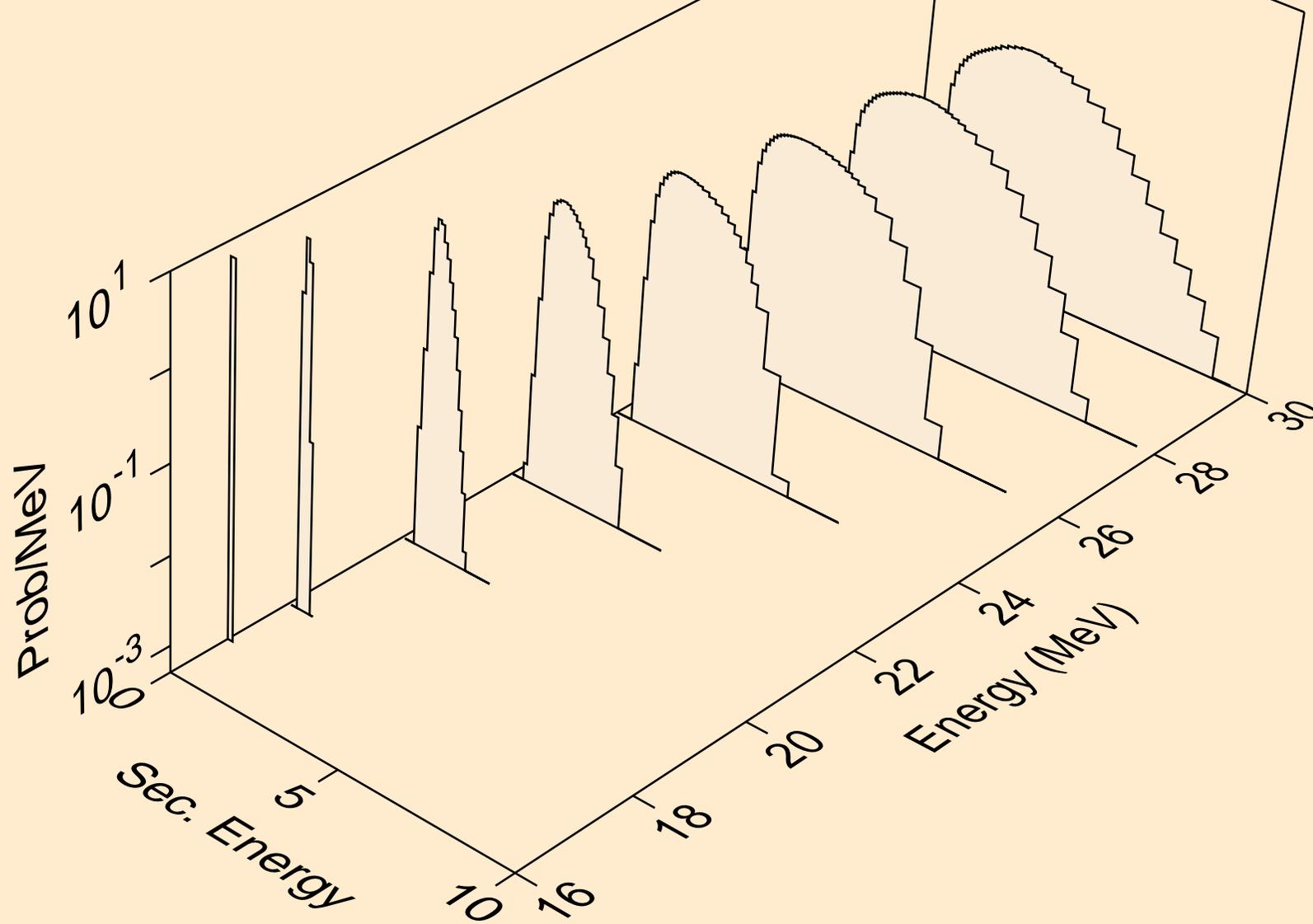TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
protons from (n,2p)

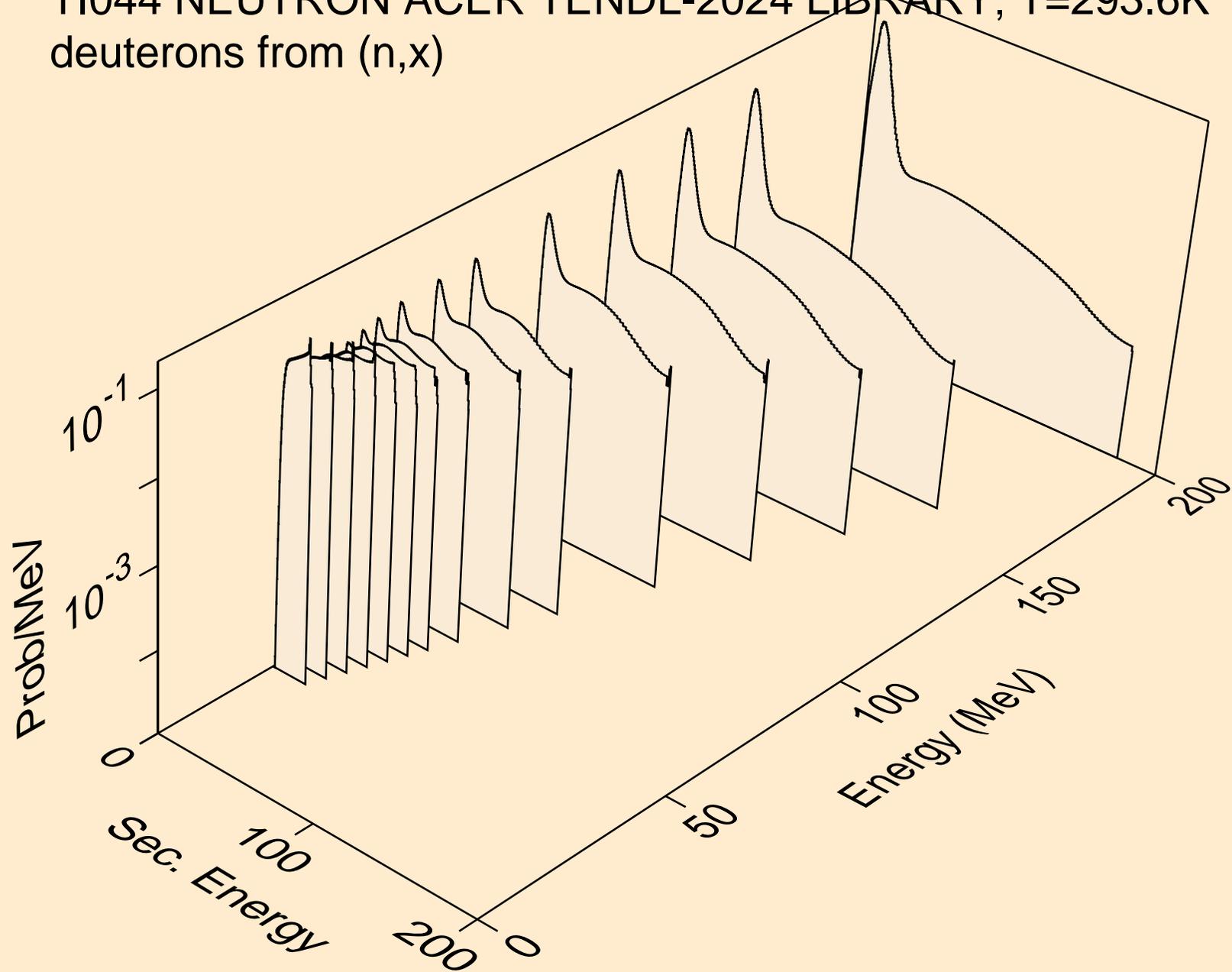TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
protons from (n,pa)

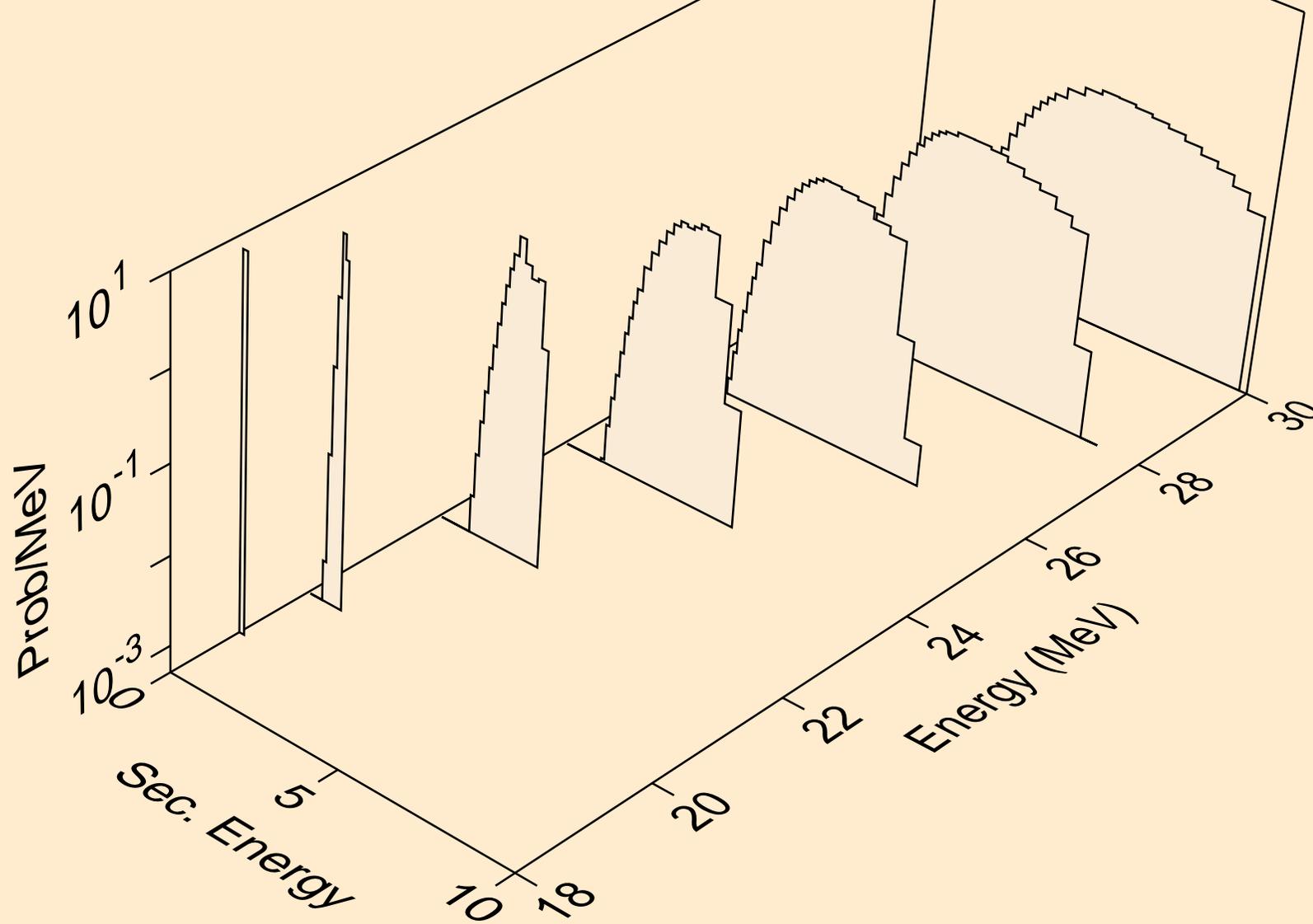TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
protons from (n,pd)

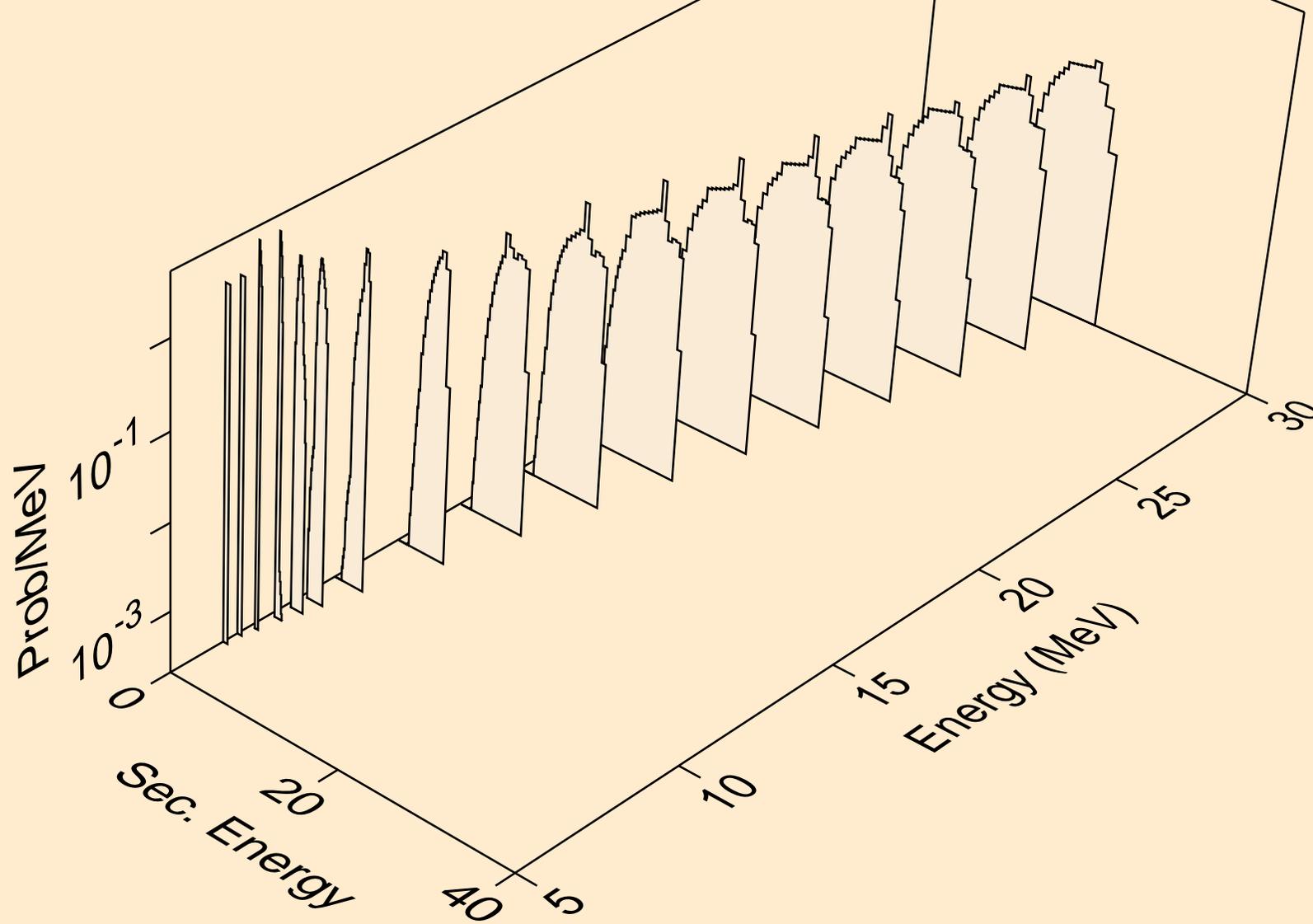TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
protons from (n,pt)

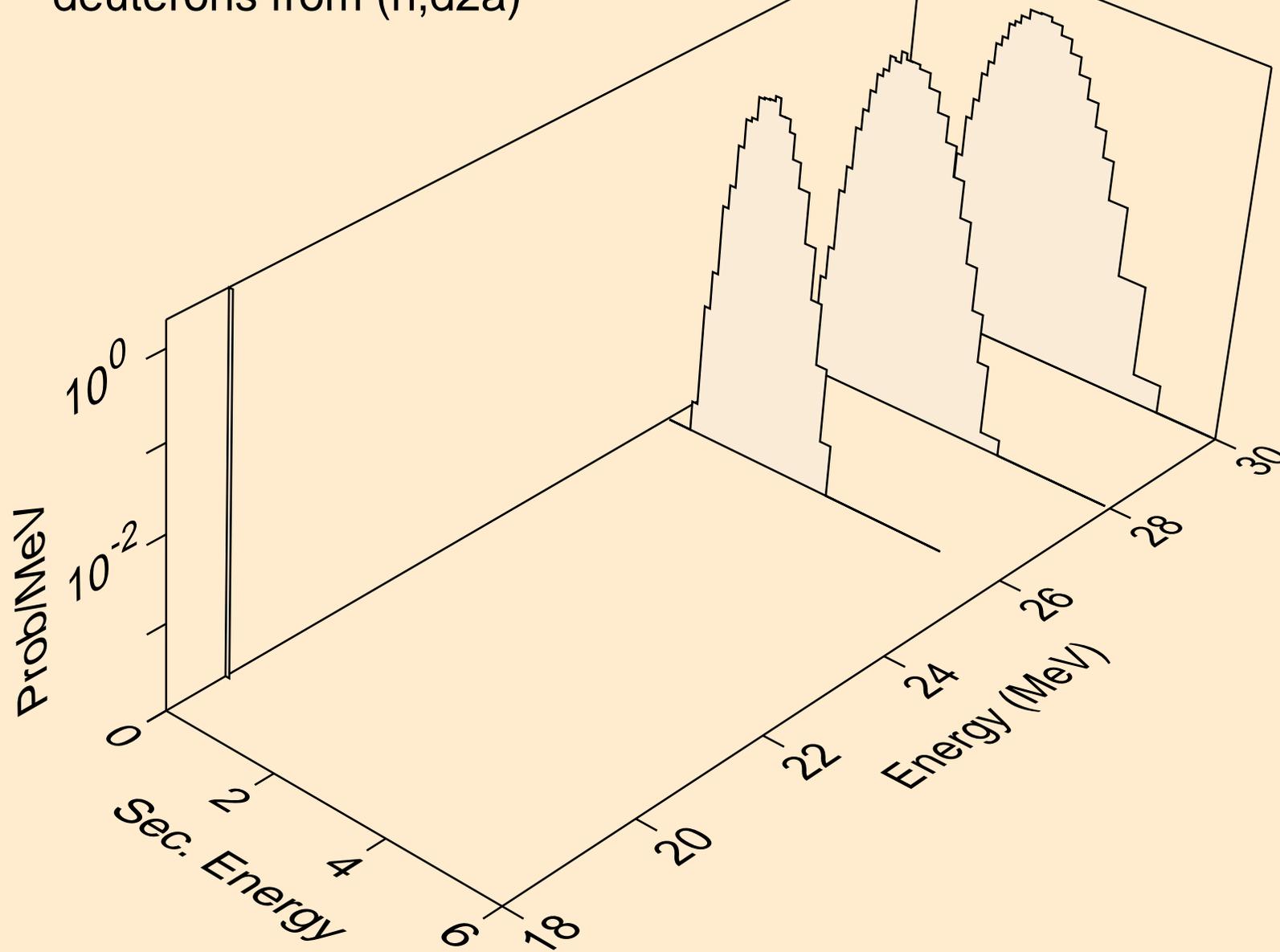TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
deuterons from (n,x)

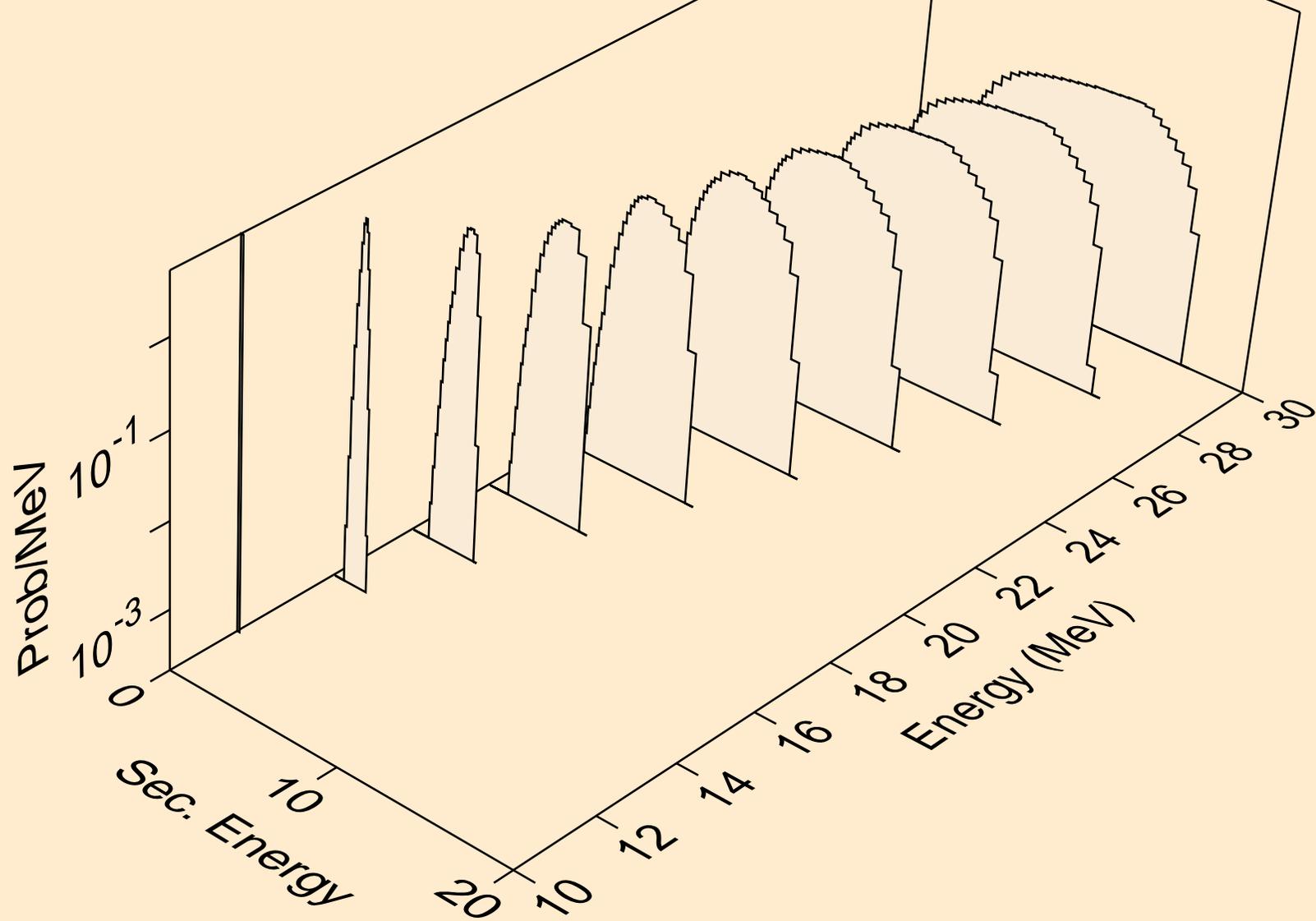TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
deuterons from (n,n*)d

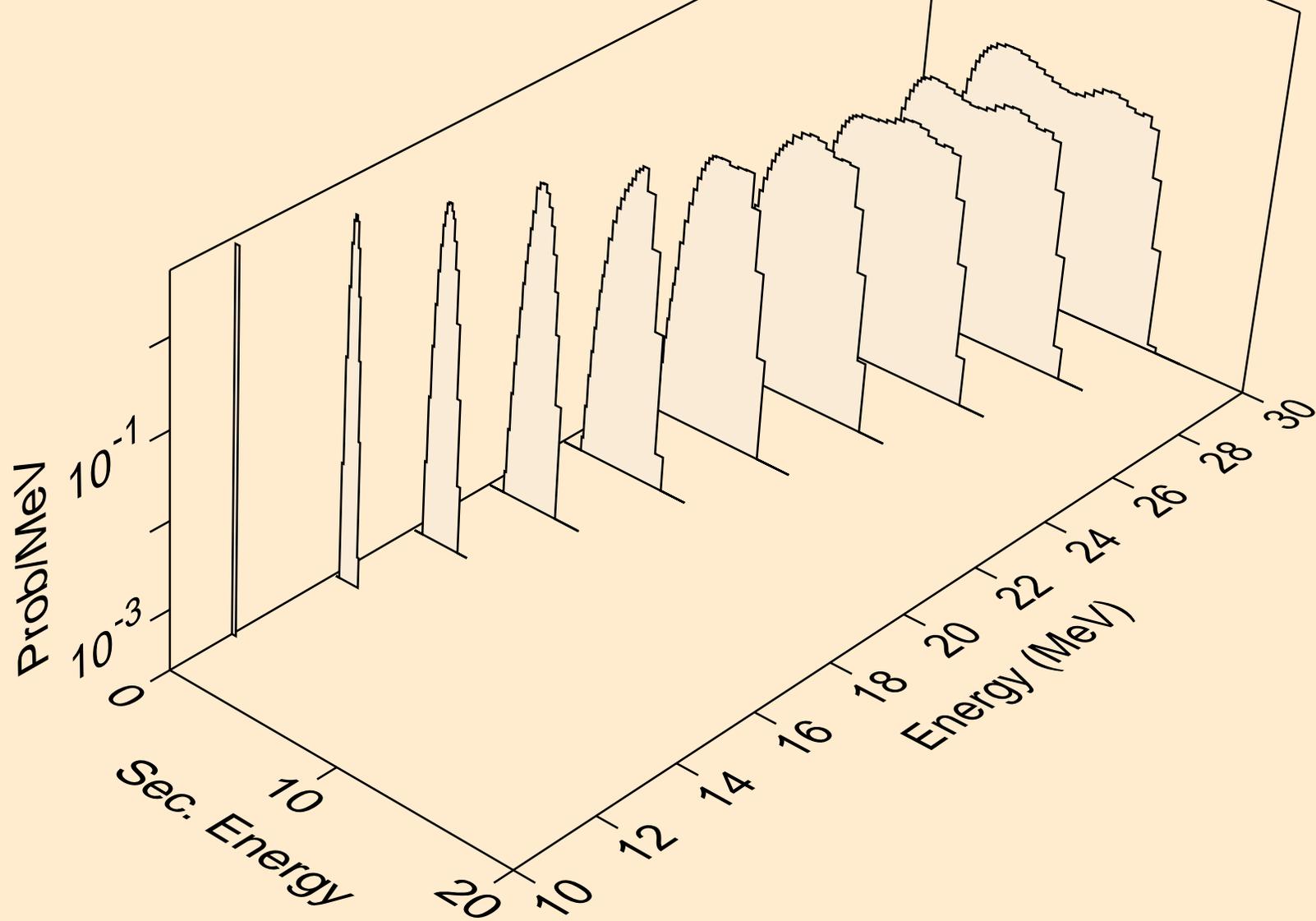TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
deuterons from (n,d)

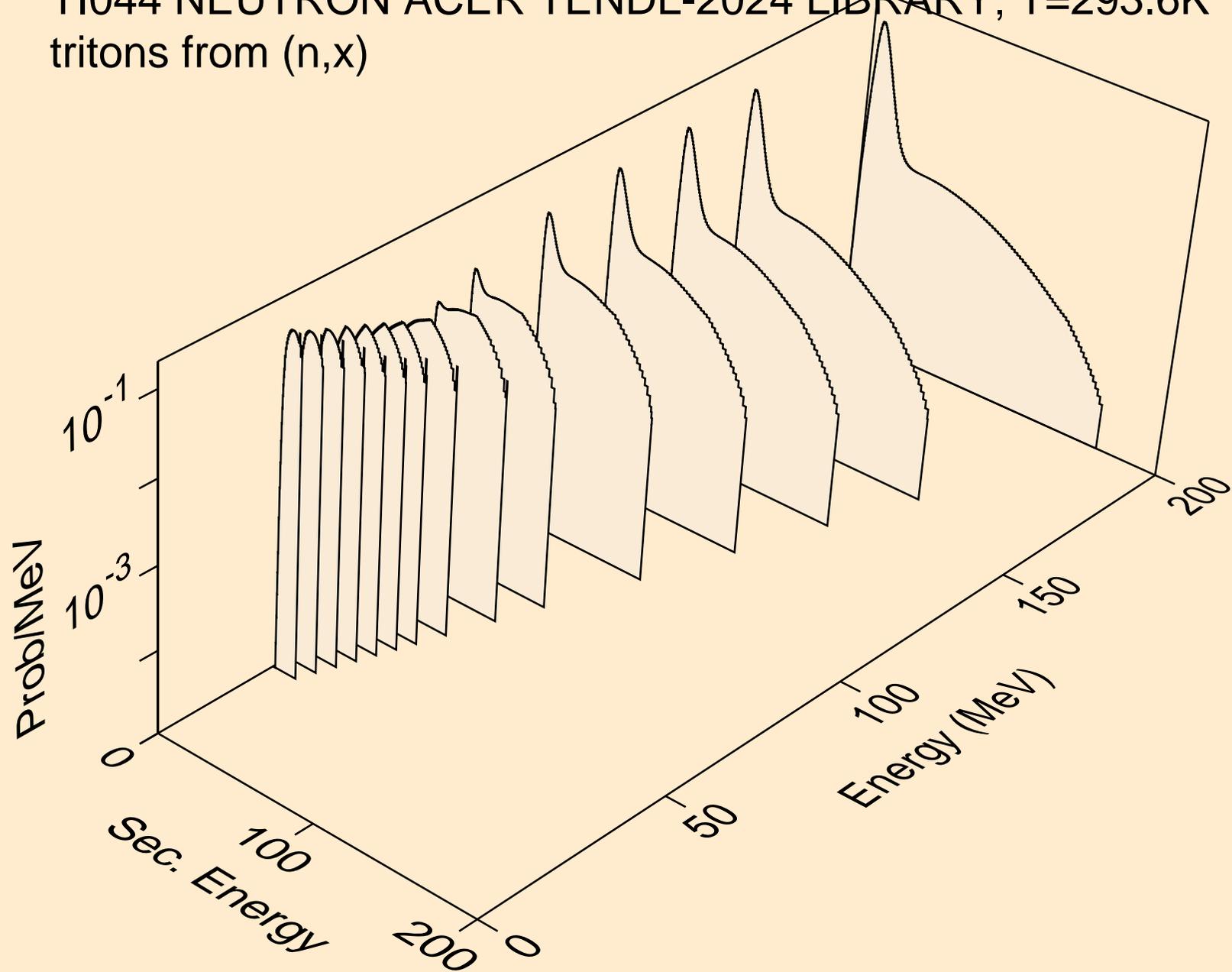TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
deuterons from (n,d2a)

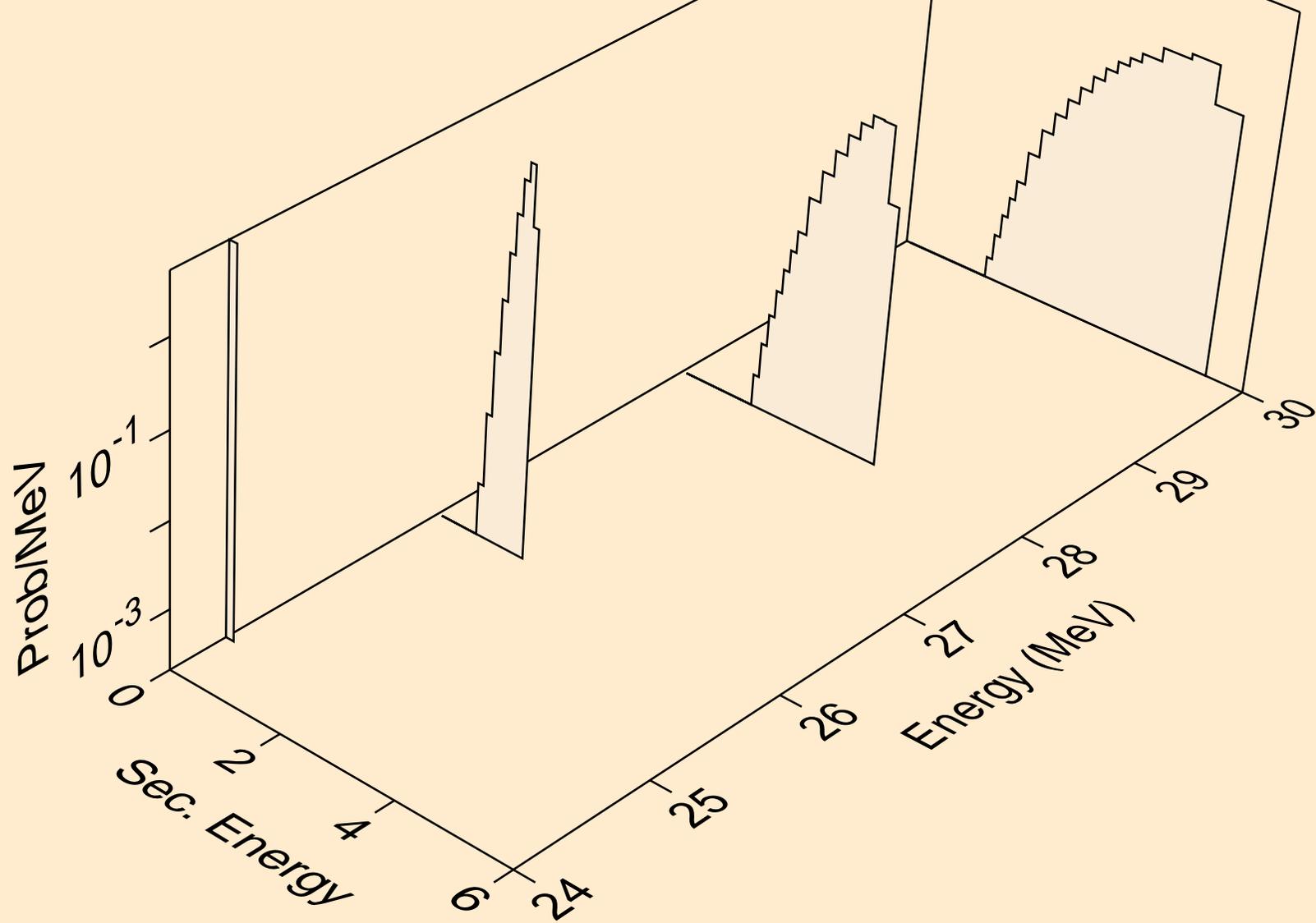TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
deuterons from (n,pd)

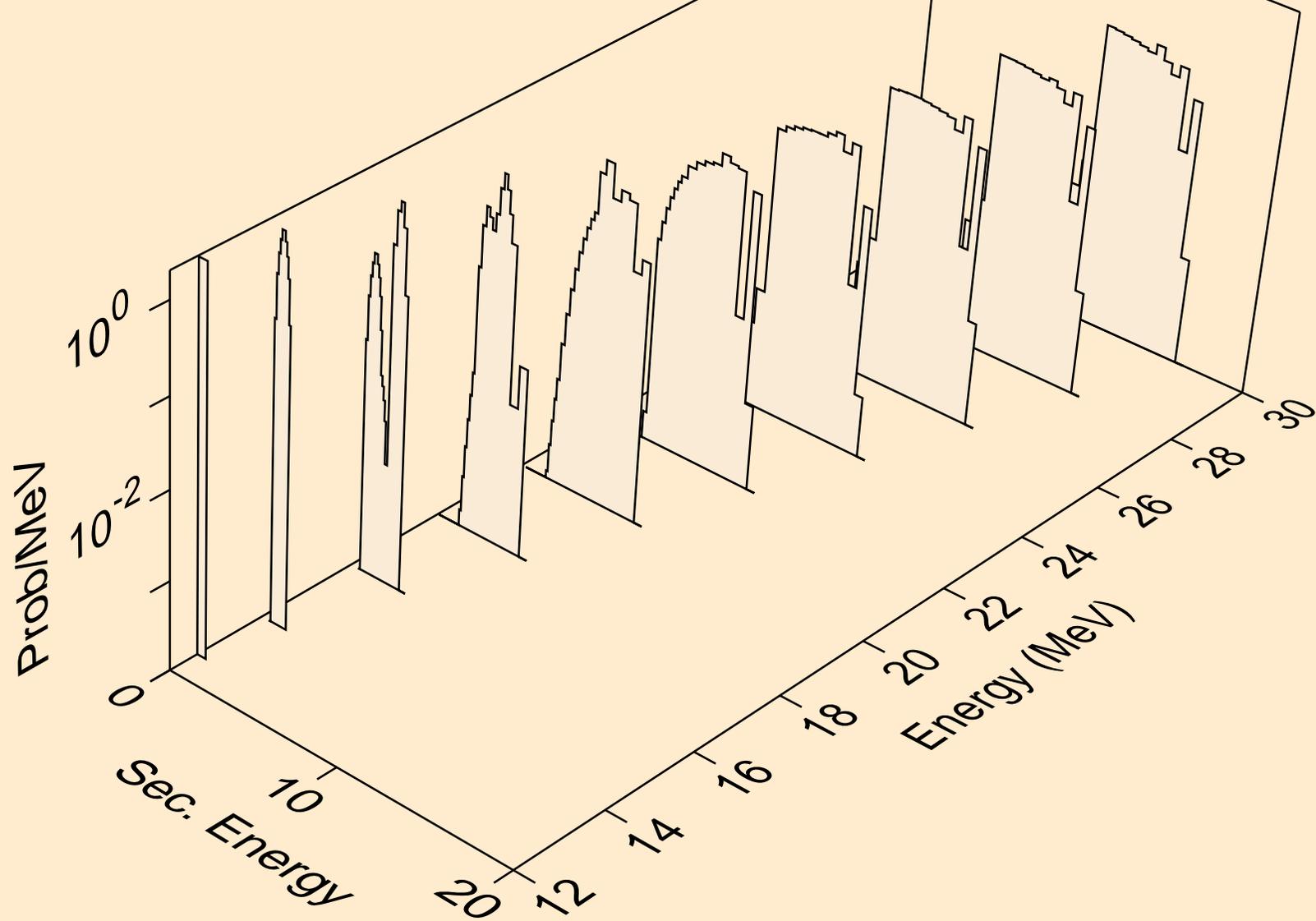TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
deuterons from (n,da)

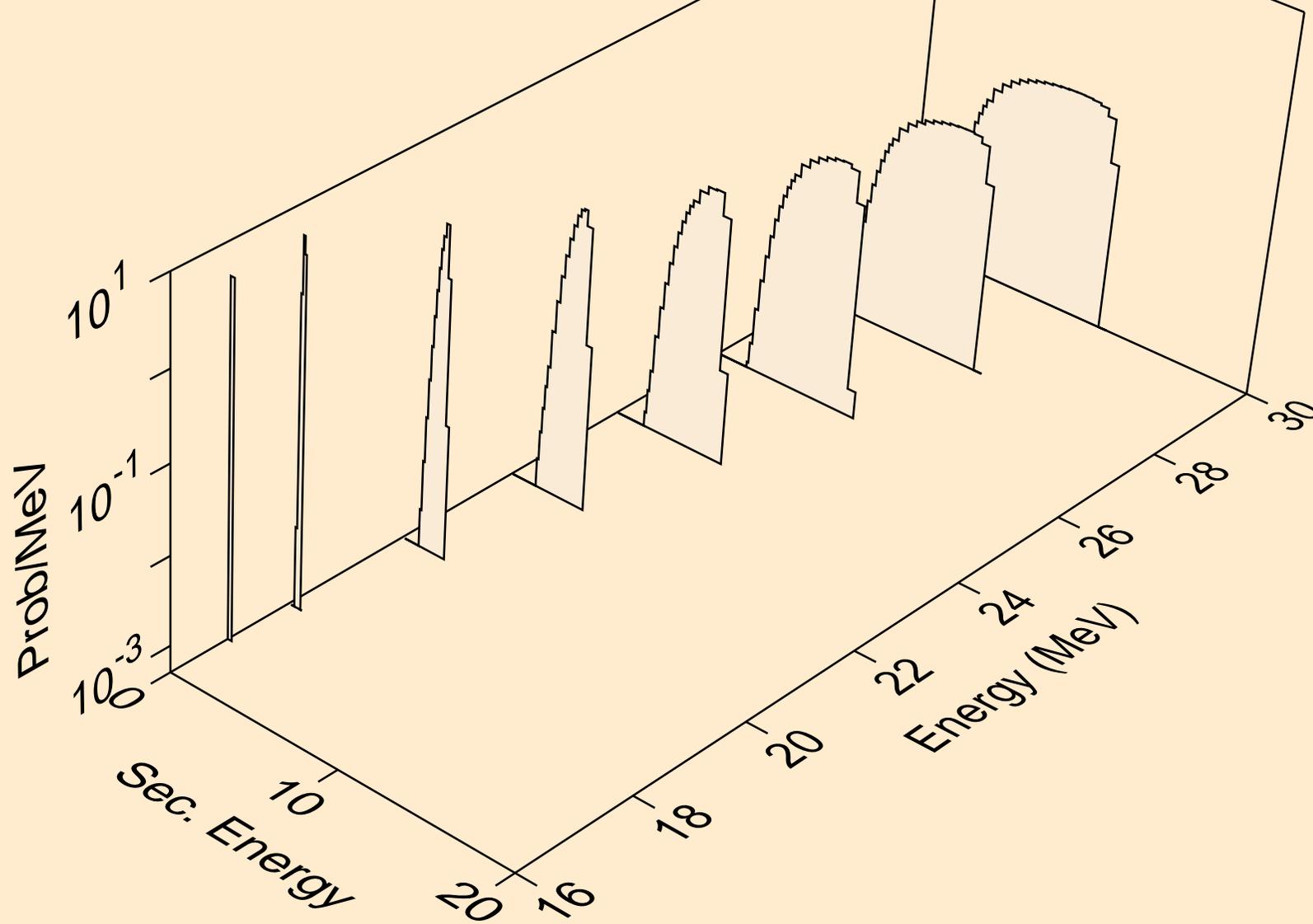TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
tritons from (n,x)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
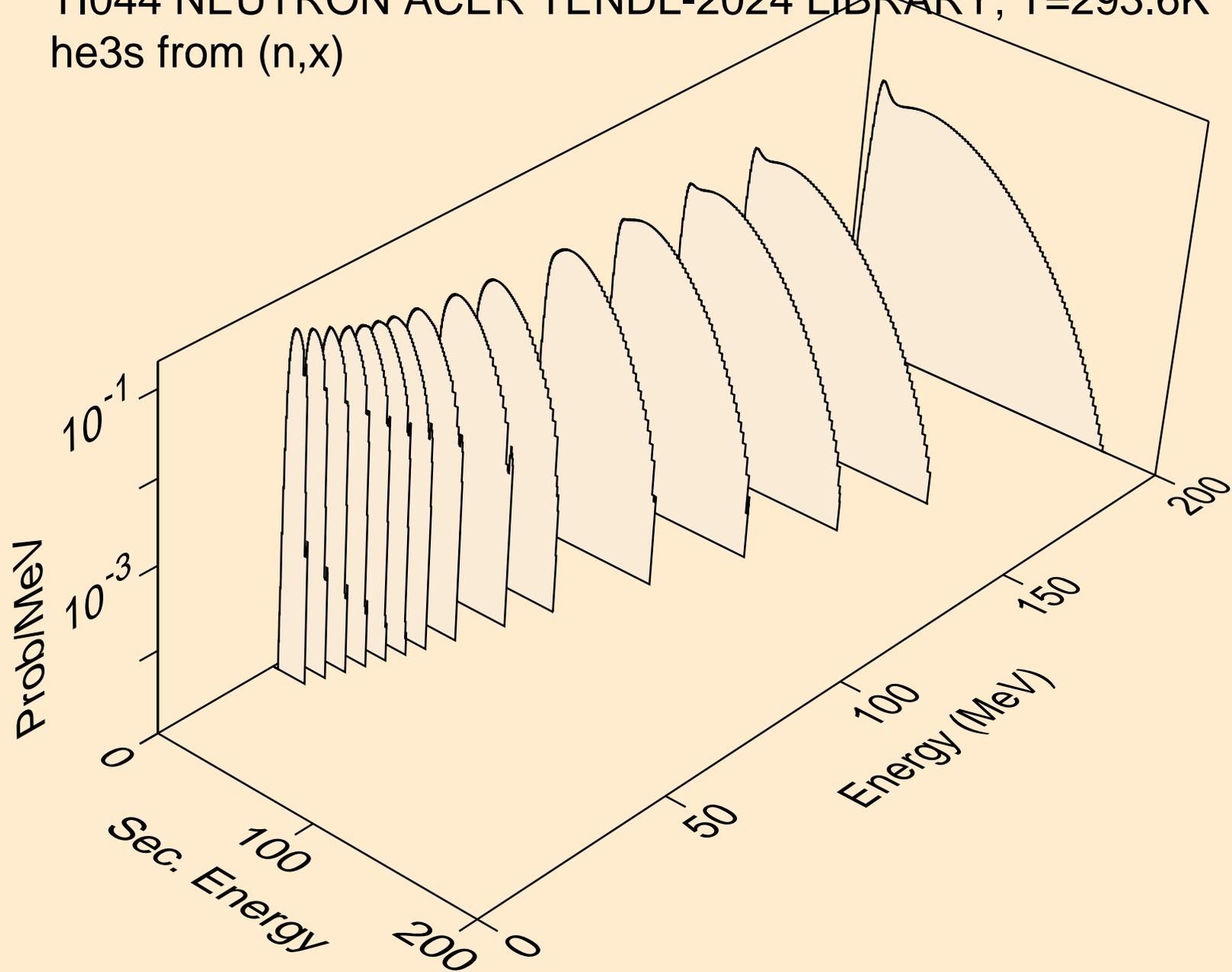tritons from (n,n*)t

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
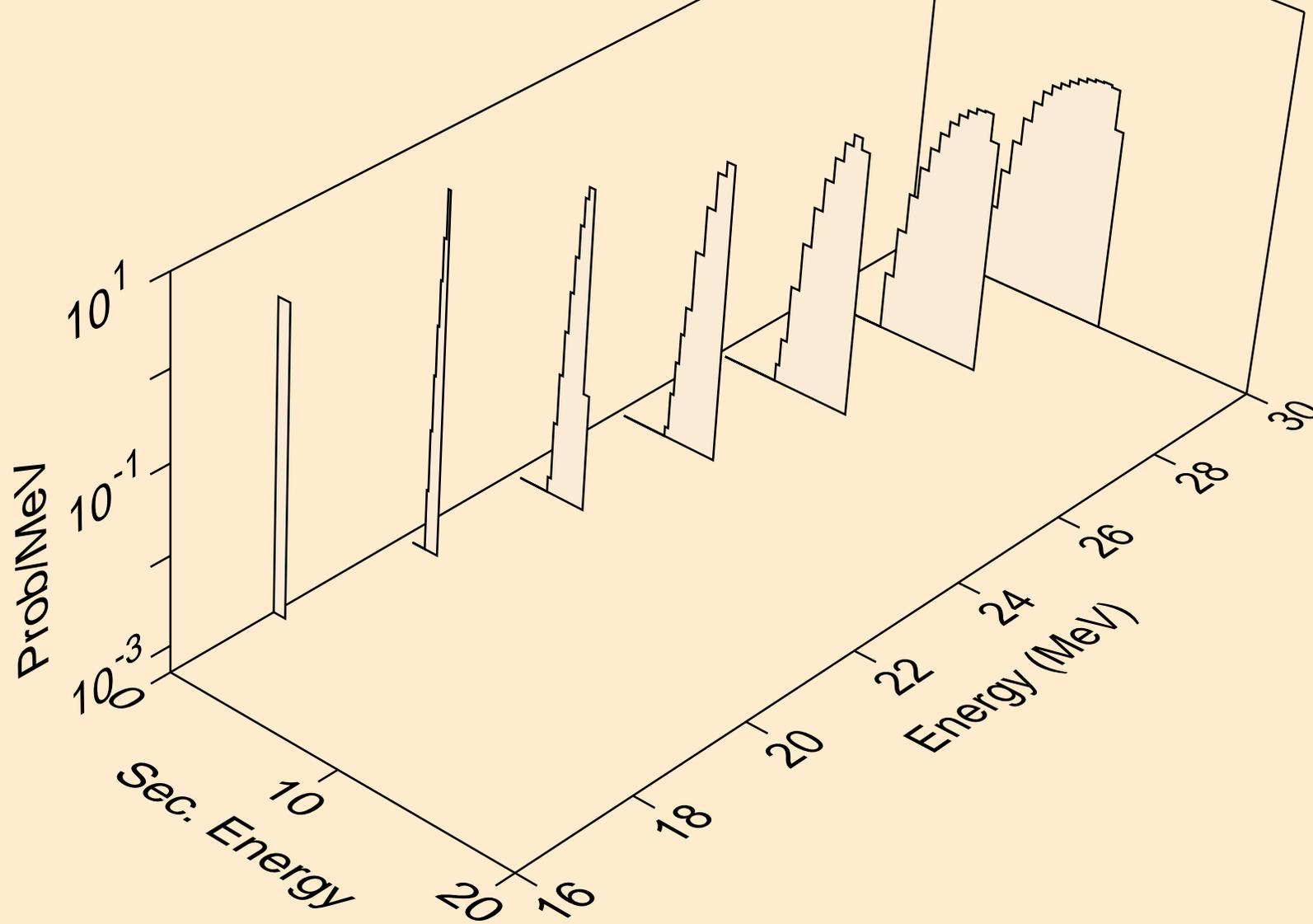tritons from (n,t)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
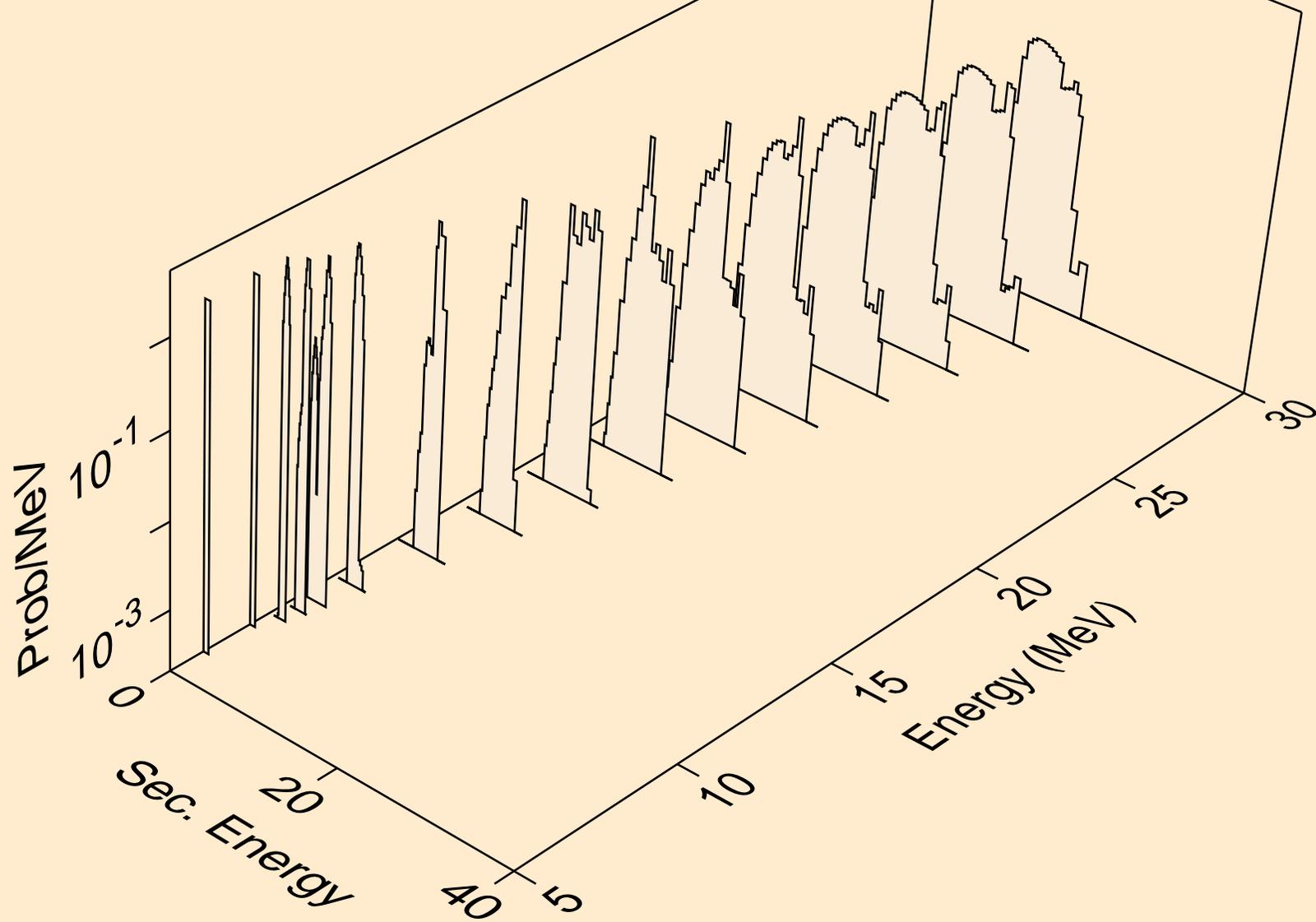tritons from (n,pt)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
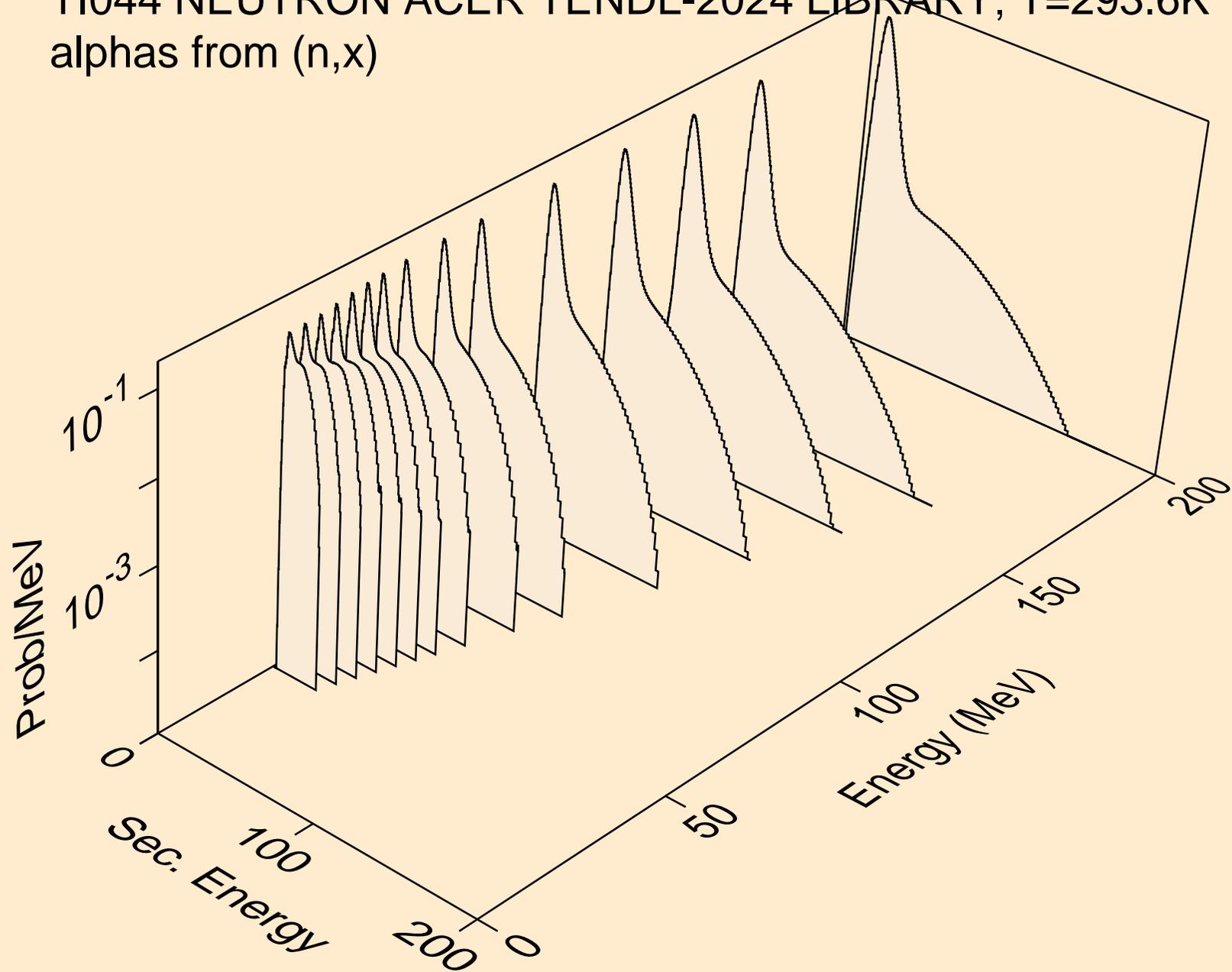he3s from (n,x)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
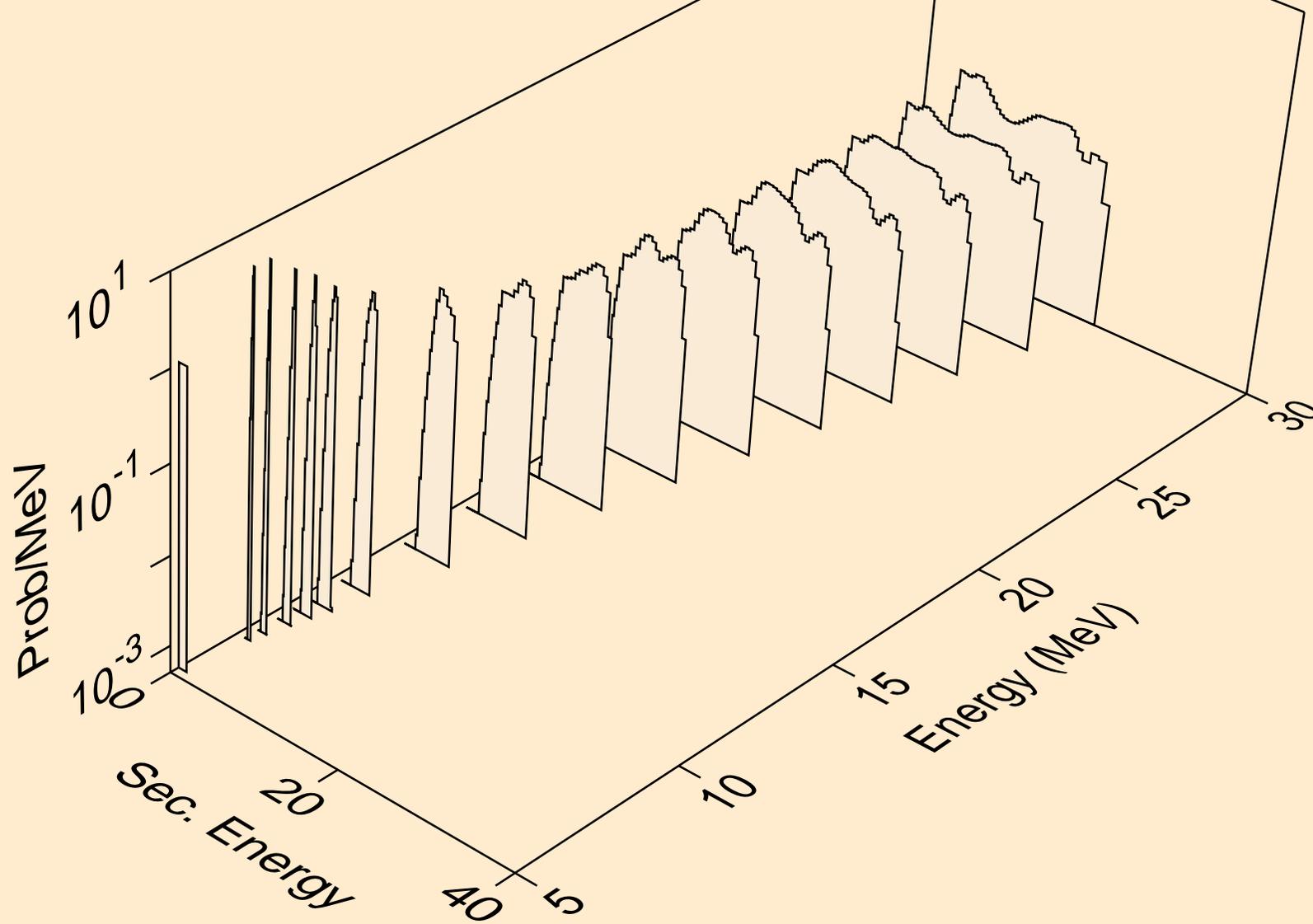he3s from (n,n*)he3

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
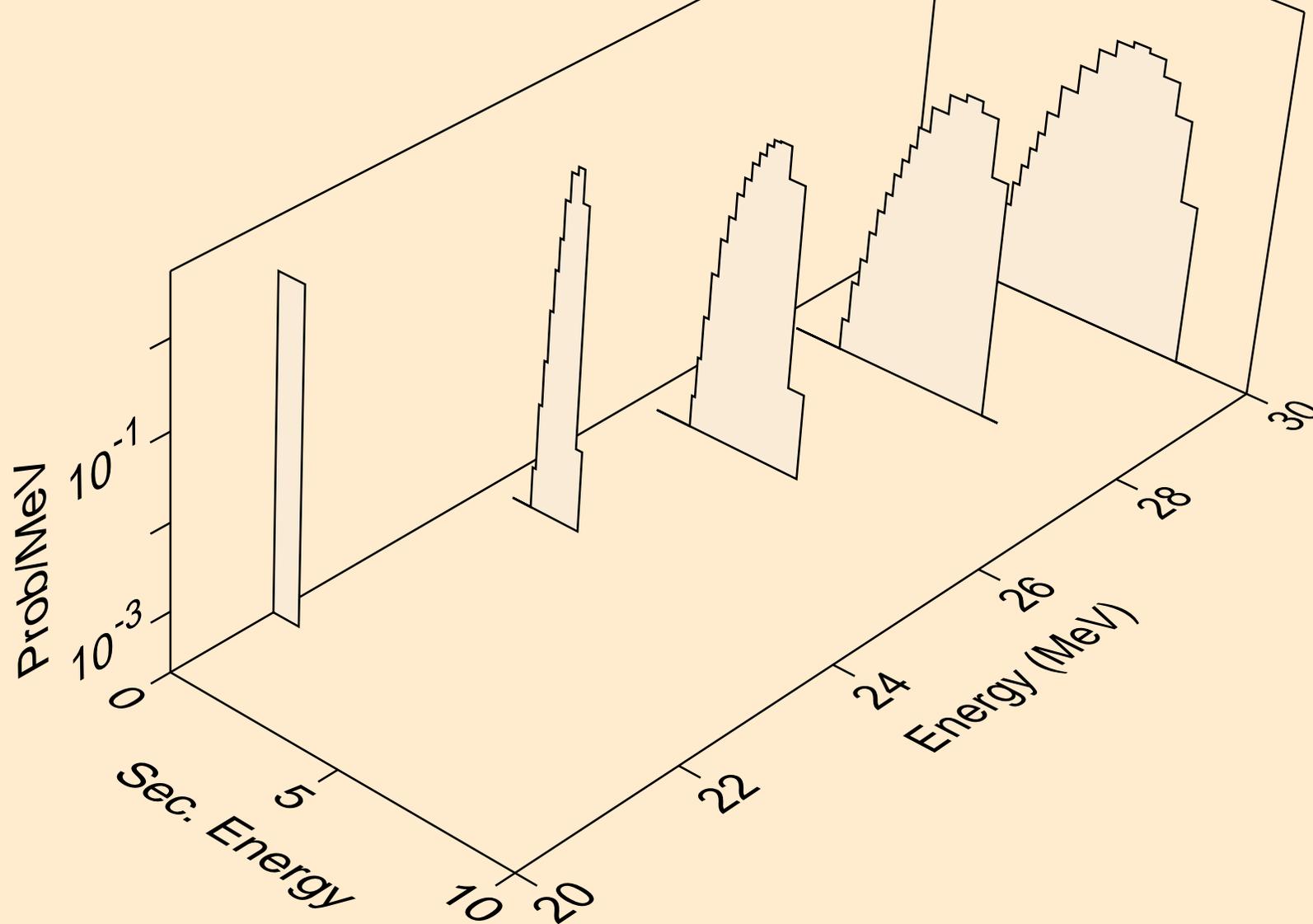he3s from (n,he3)

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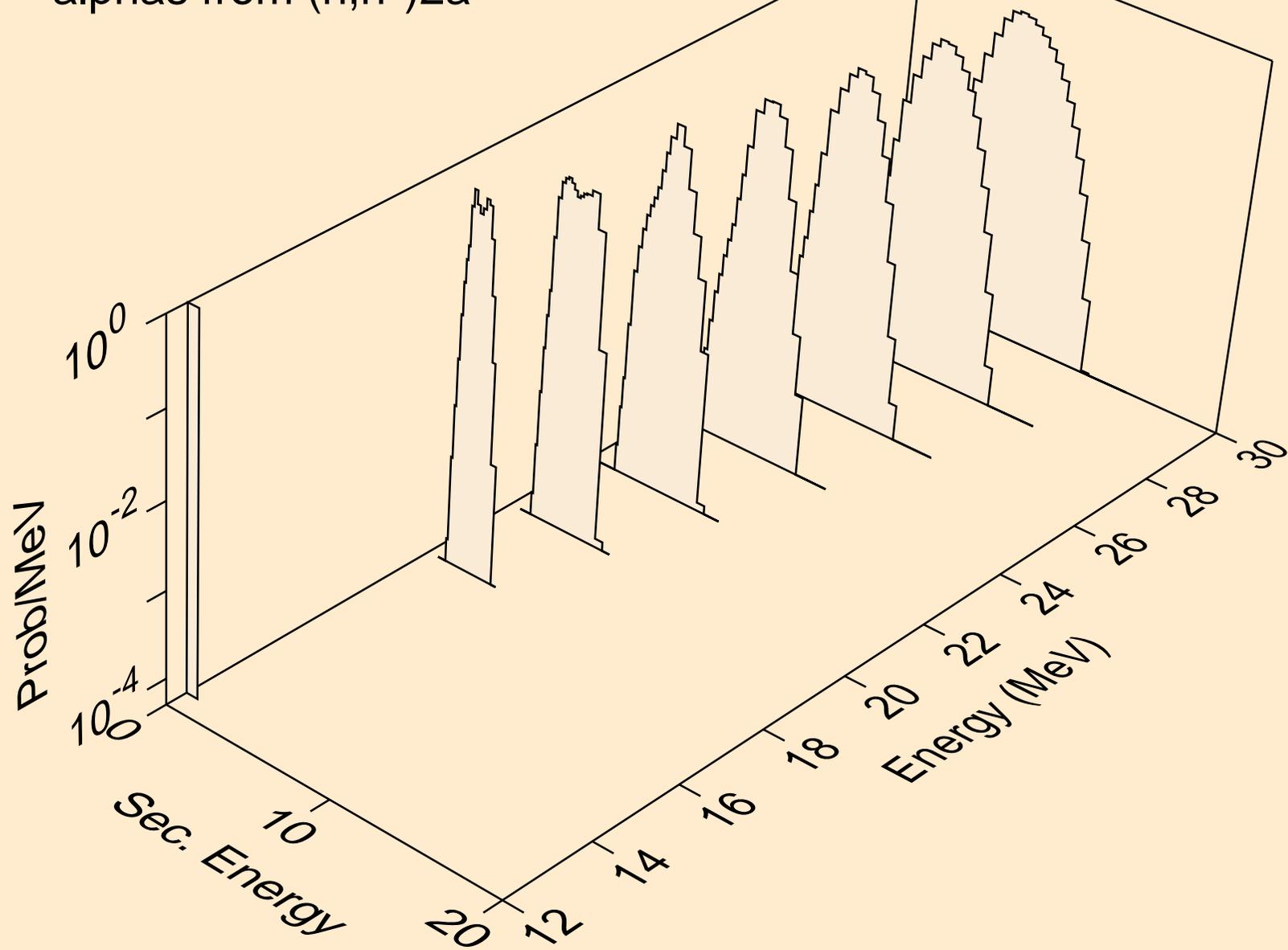alphas from (n,x)

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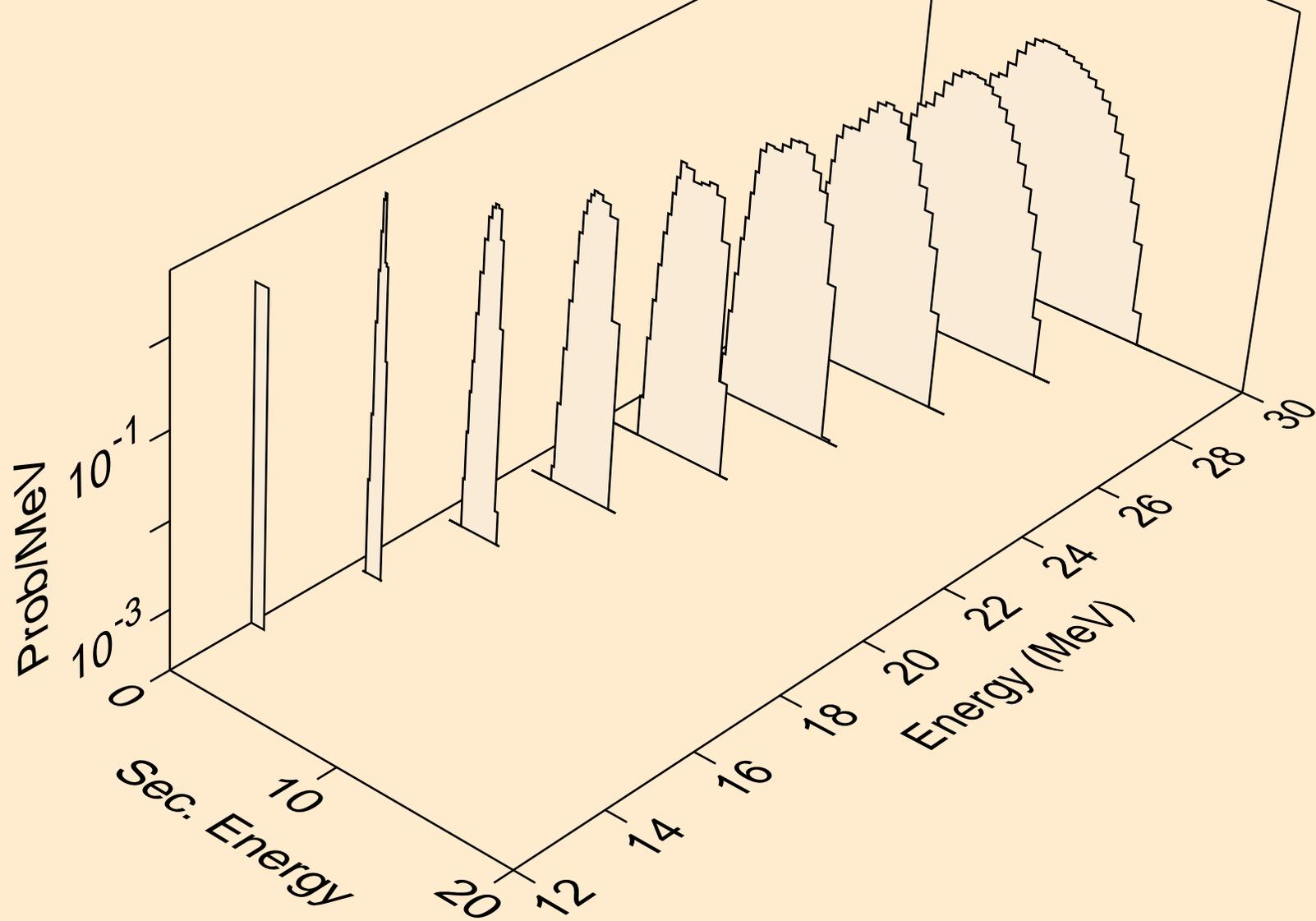alphas from (n,n*)a

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
alphas from (n,2n)a

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
alphas from (n,n*)2a

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
alphas from (n,npa)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
alphas from (n,a)
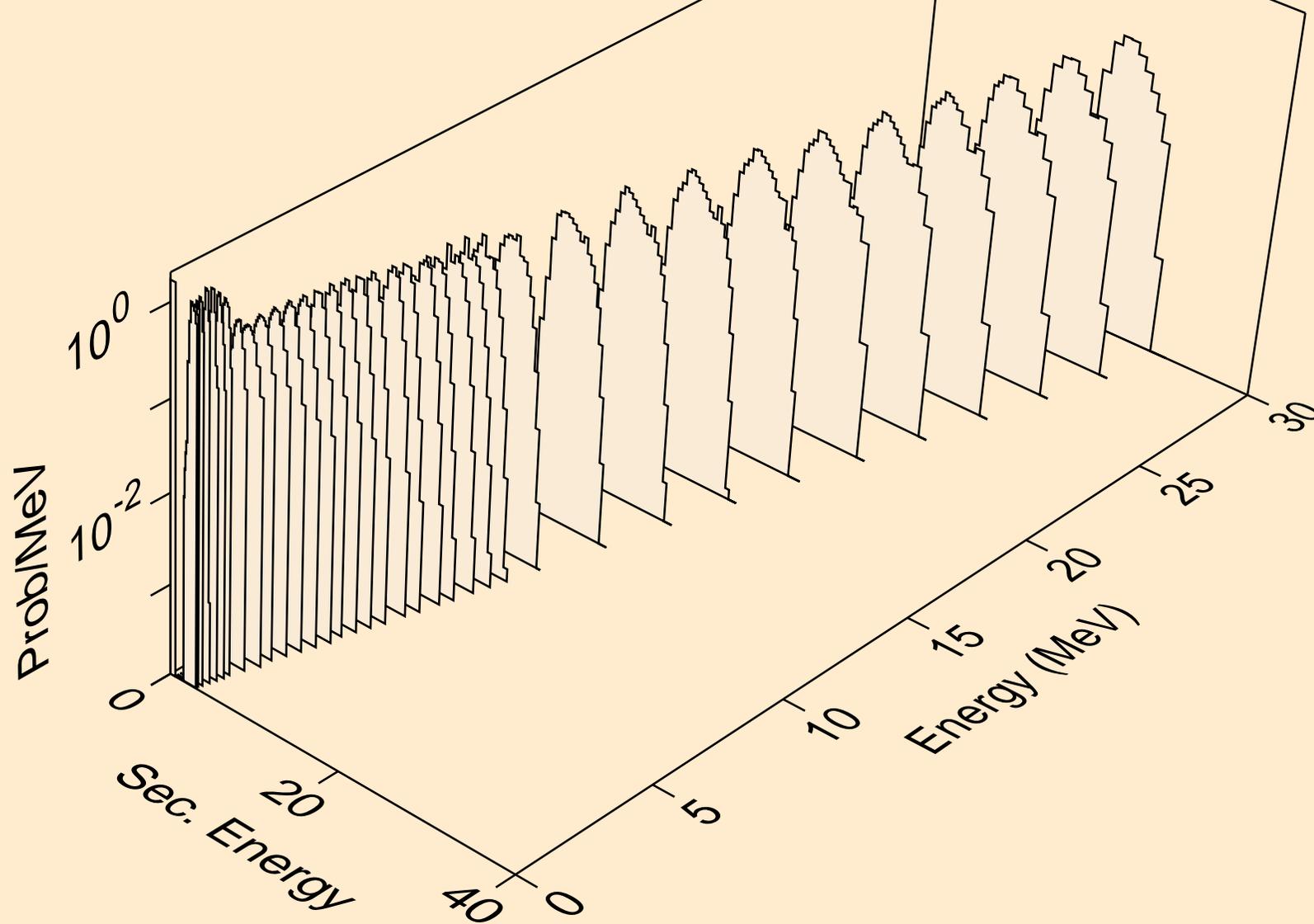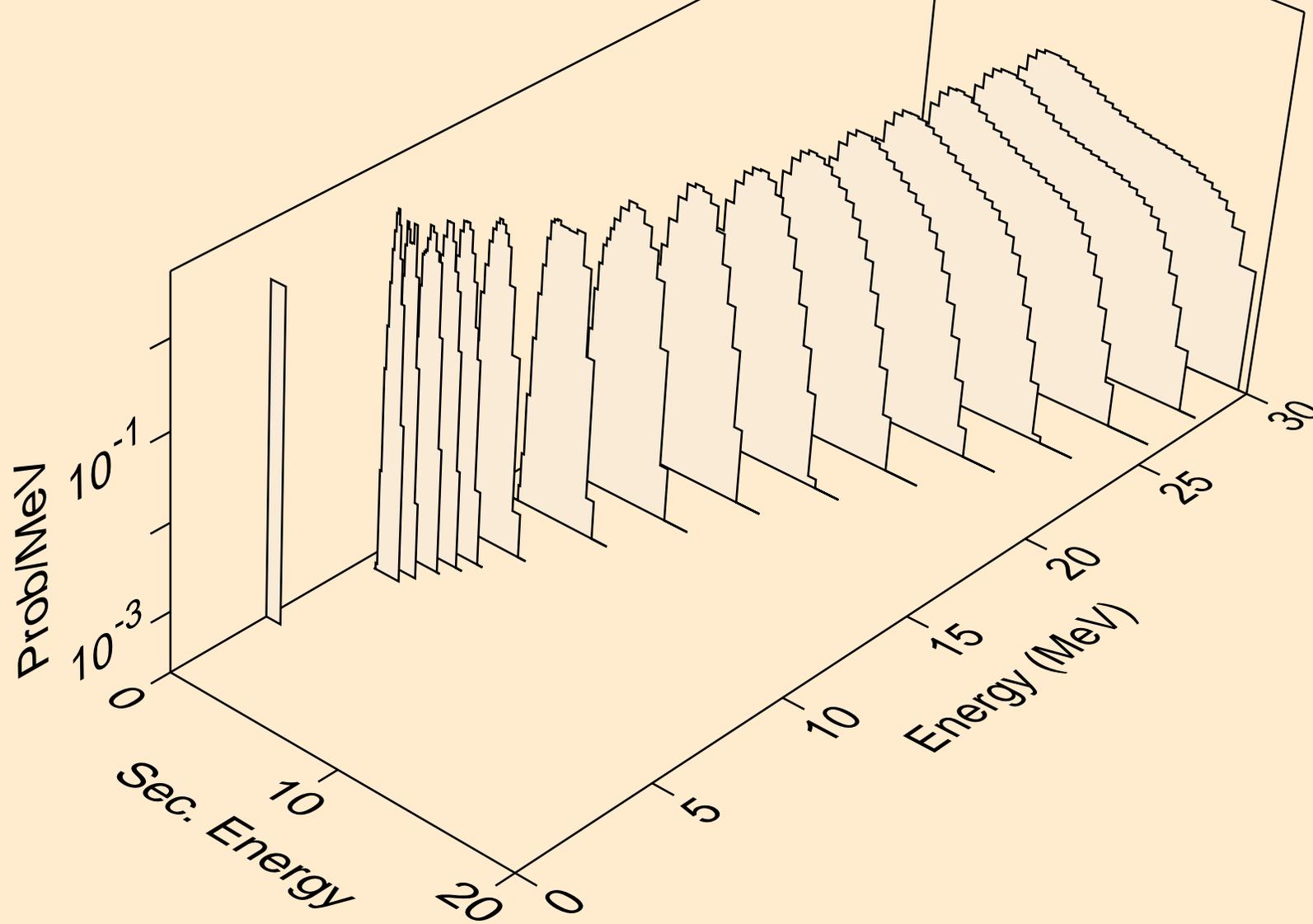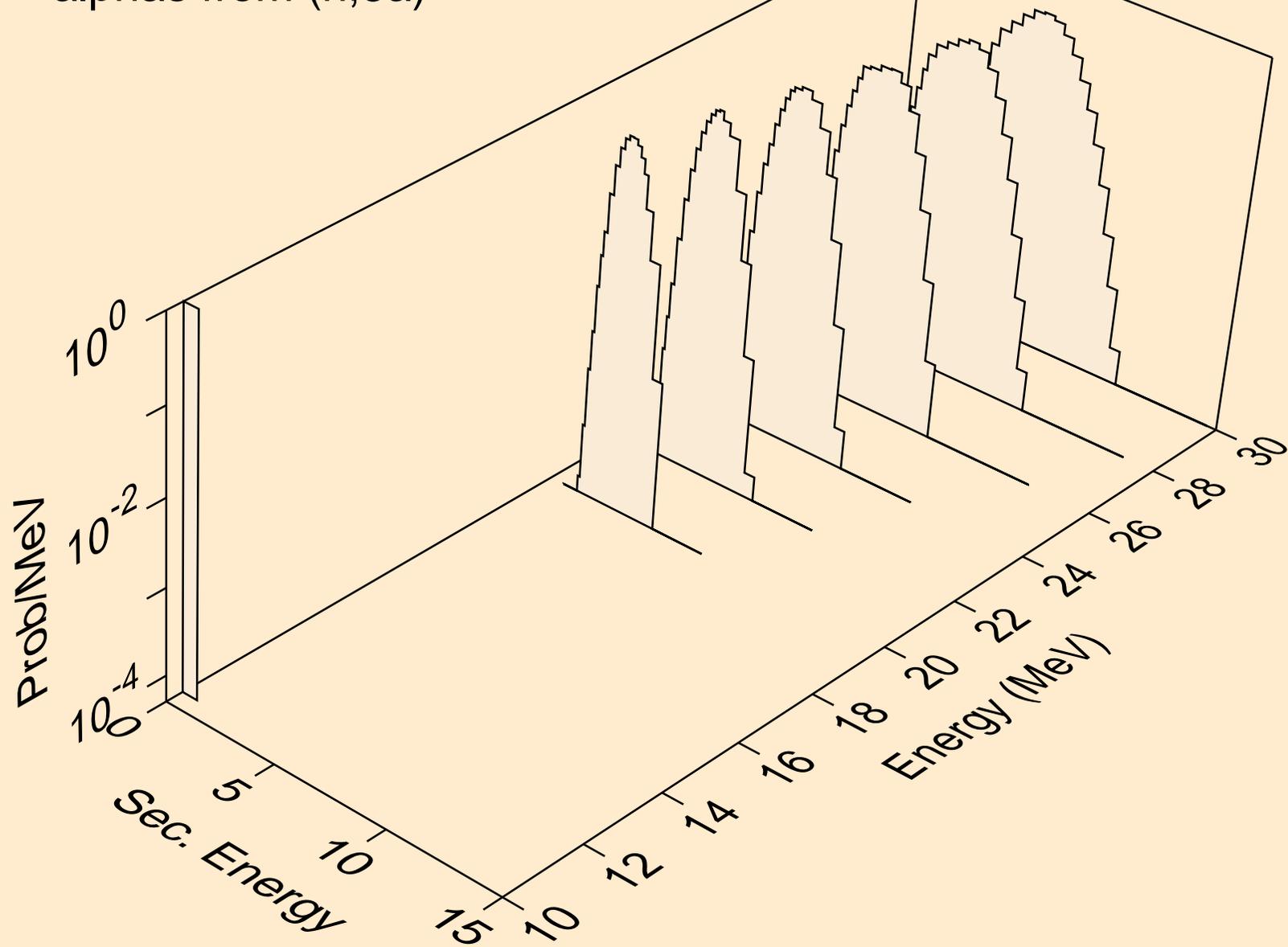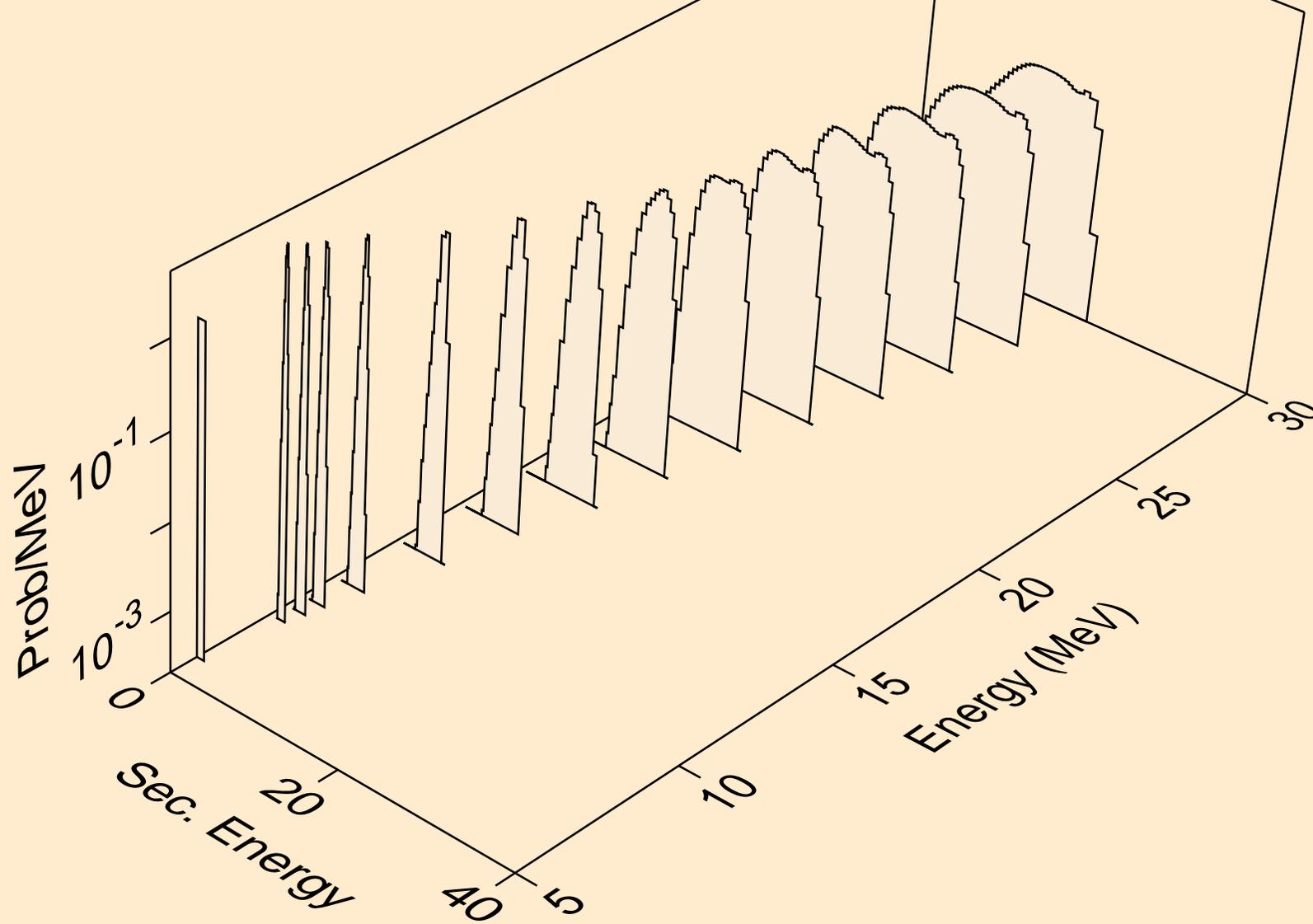
TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
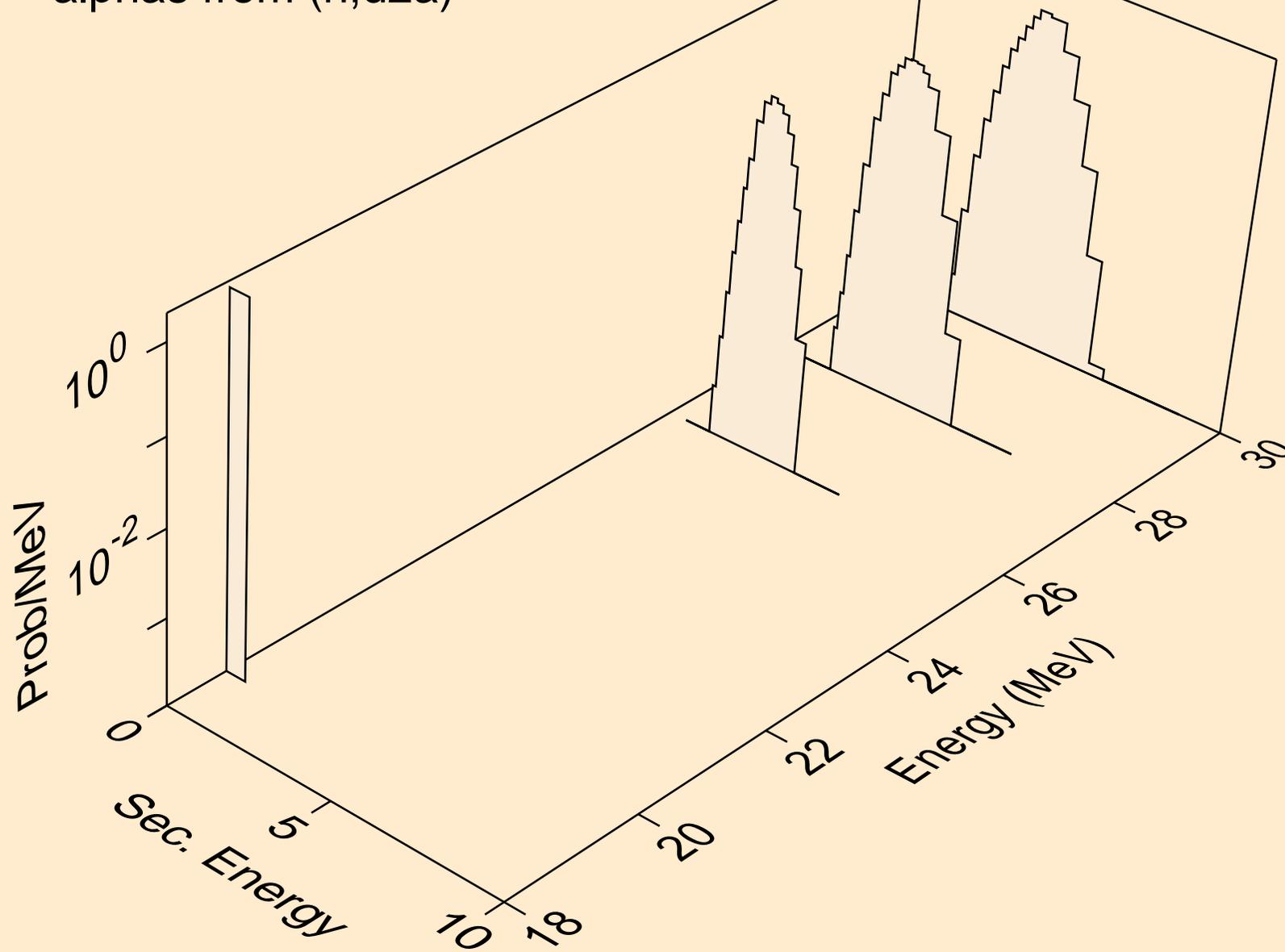alphas from (n,2a)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
alphas from (n,3a)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
alphas from (n,pa)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
alphas from (n,d2a)

TI044 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K
alphas from (n,da)