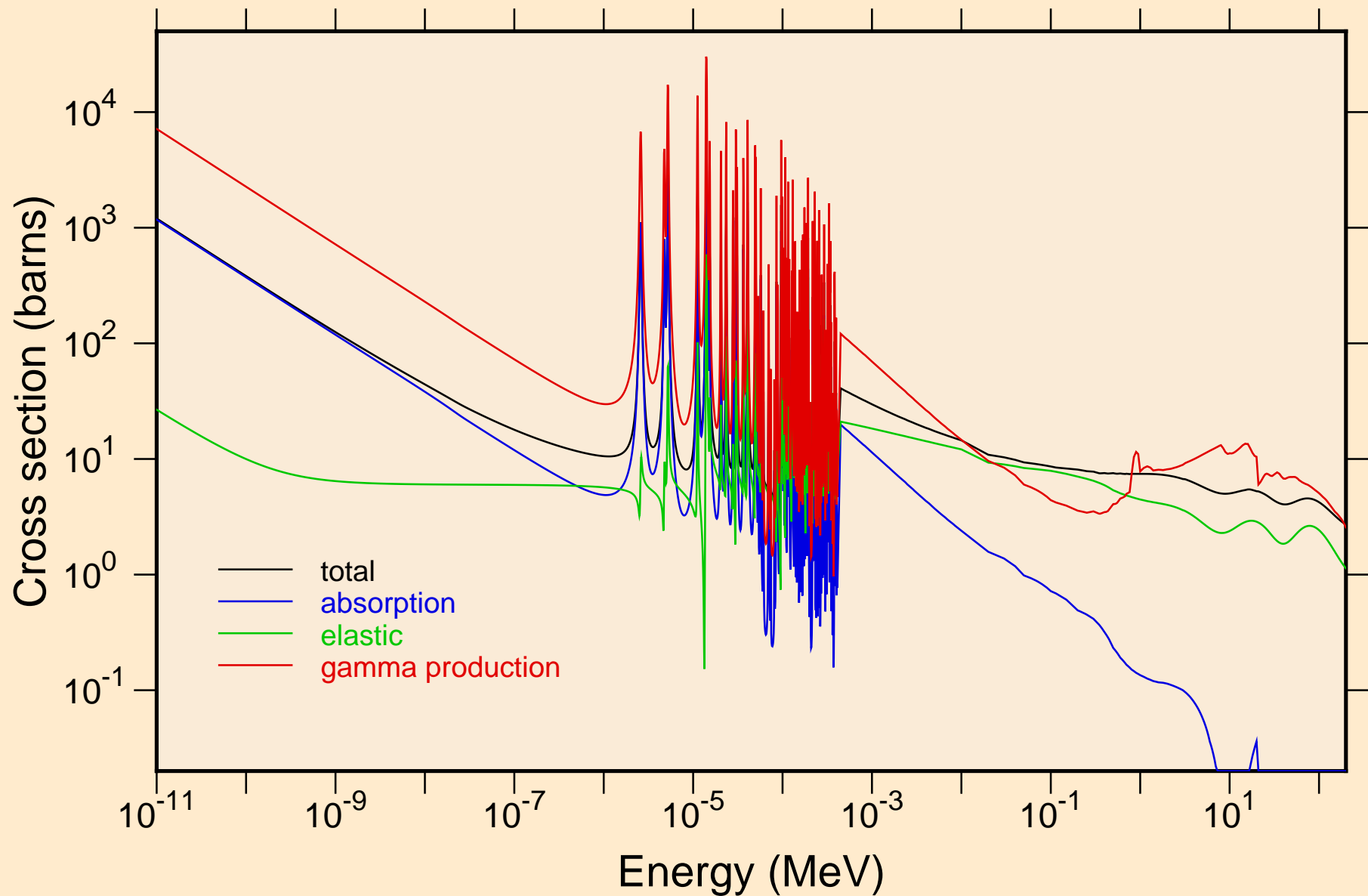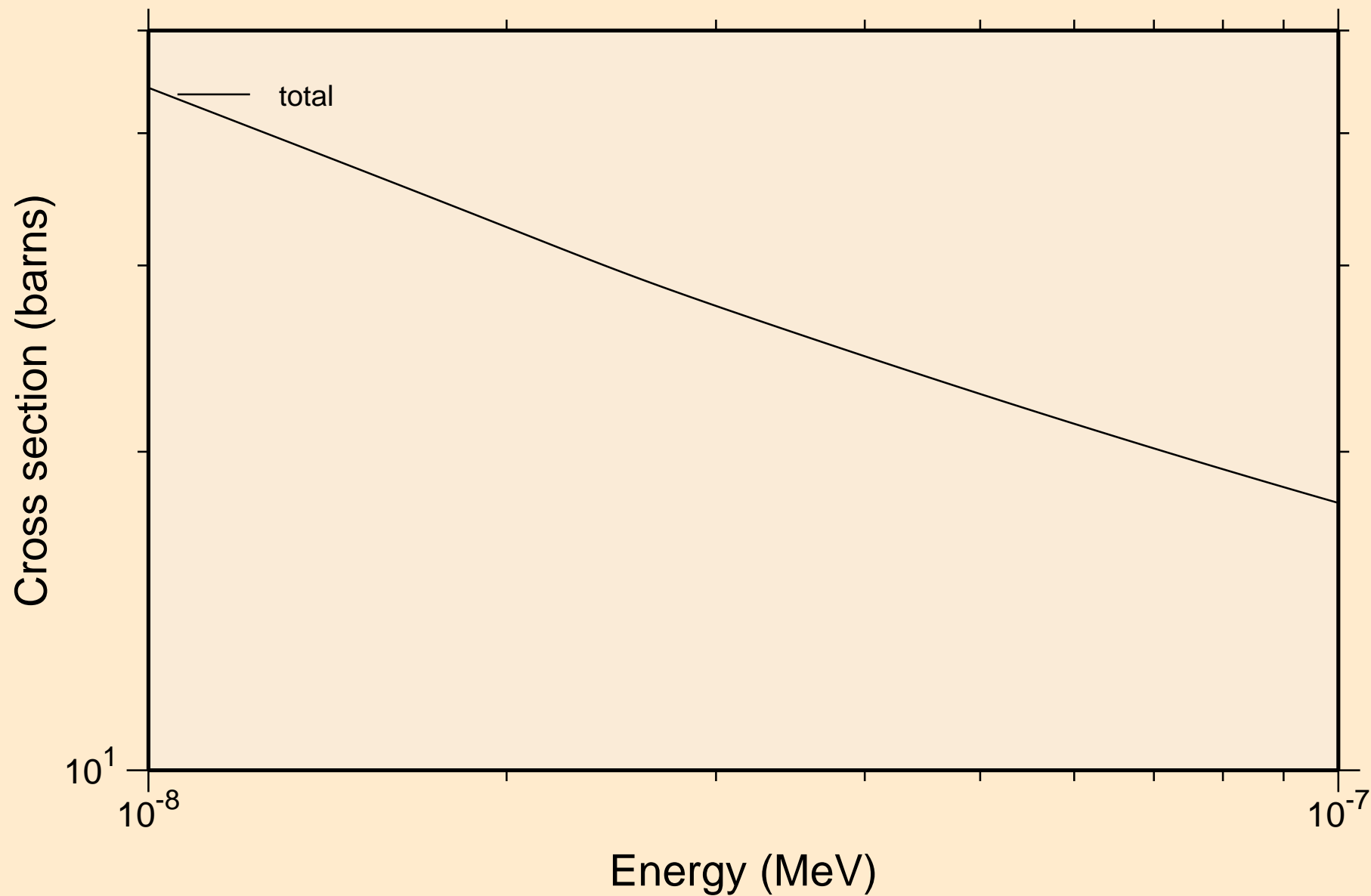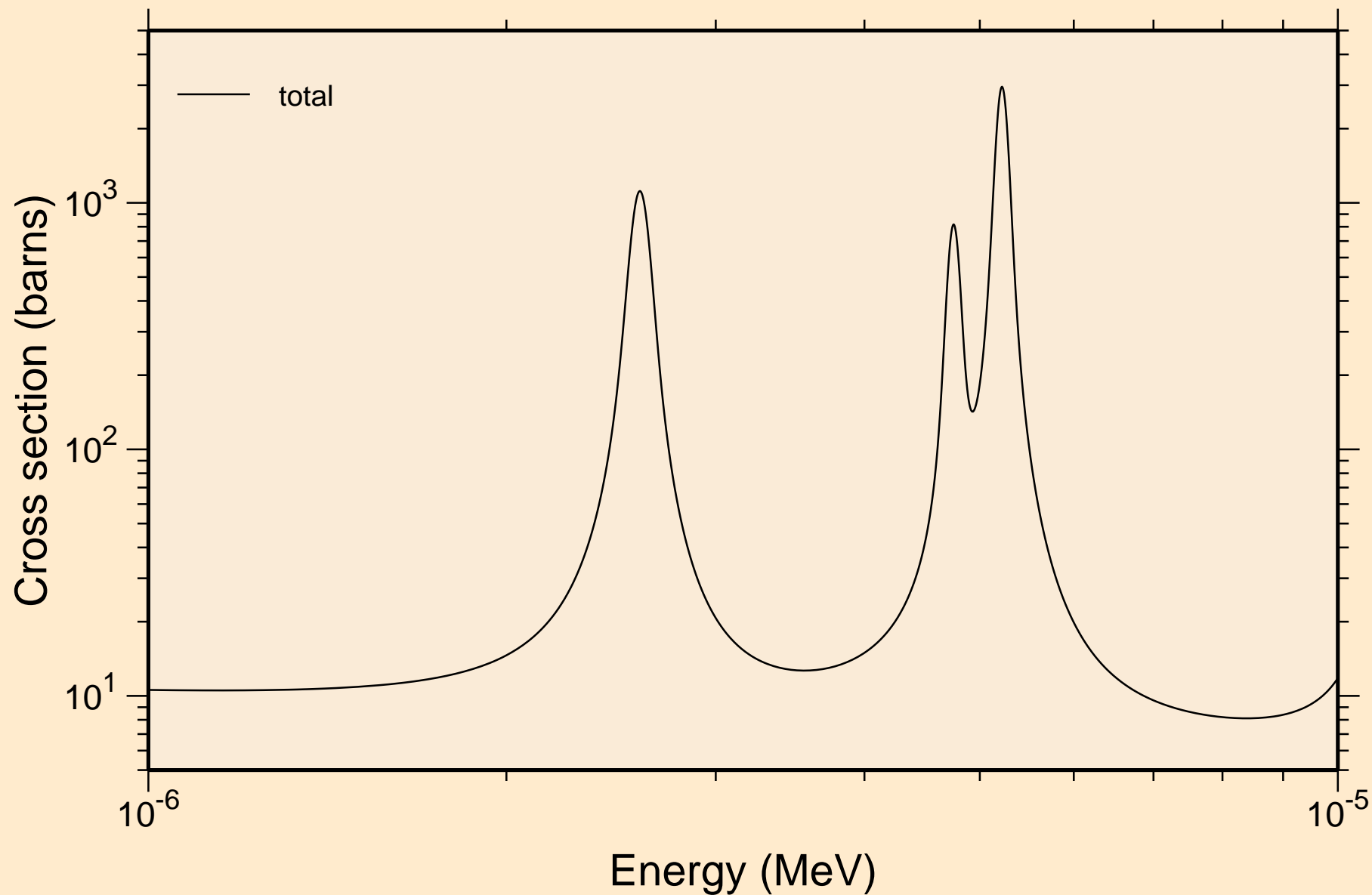71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
Principal cross sections

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
resonance total cross section

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
resonance total cross section
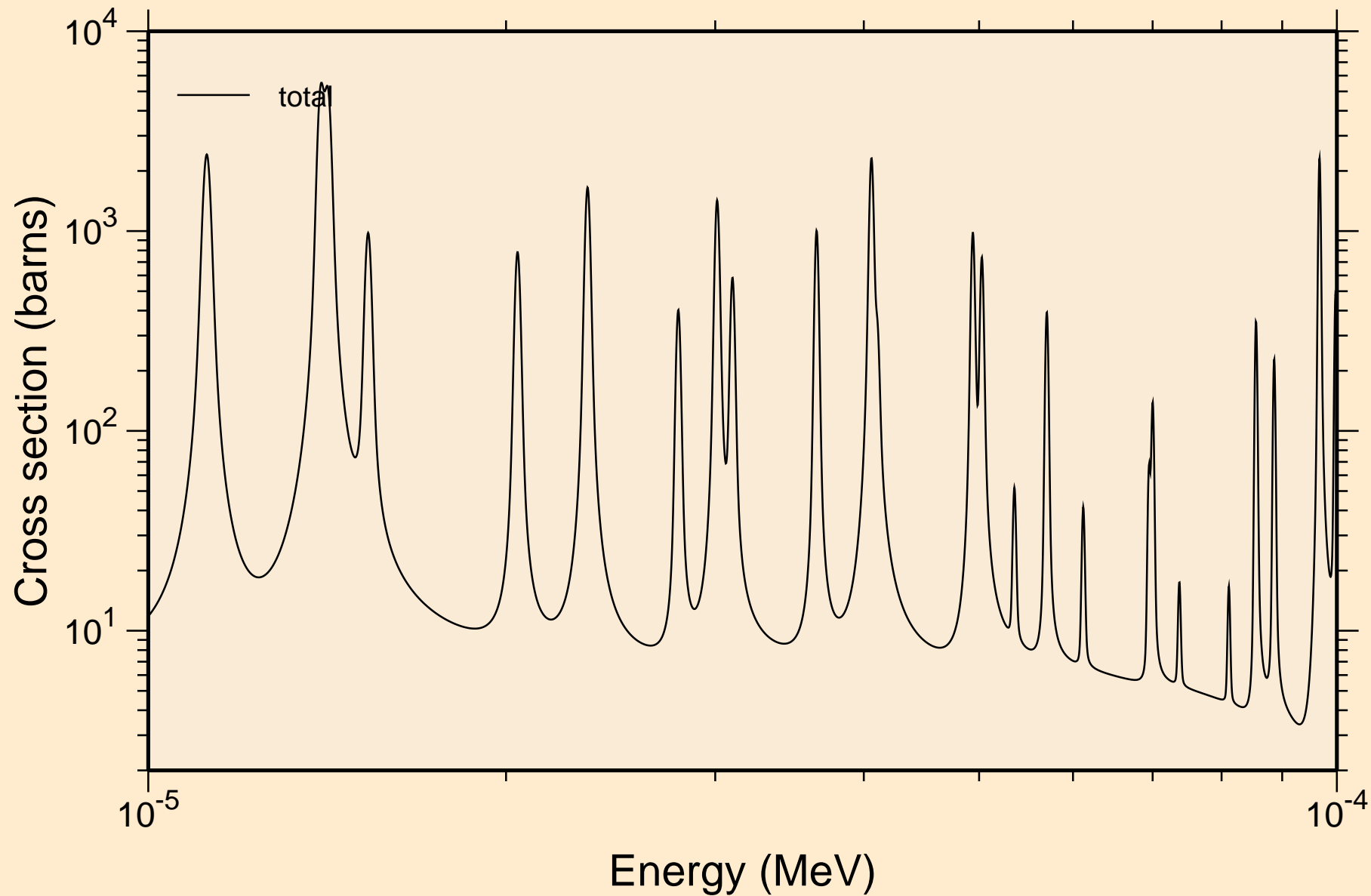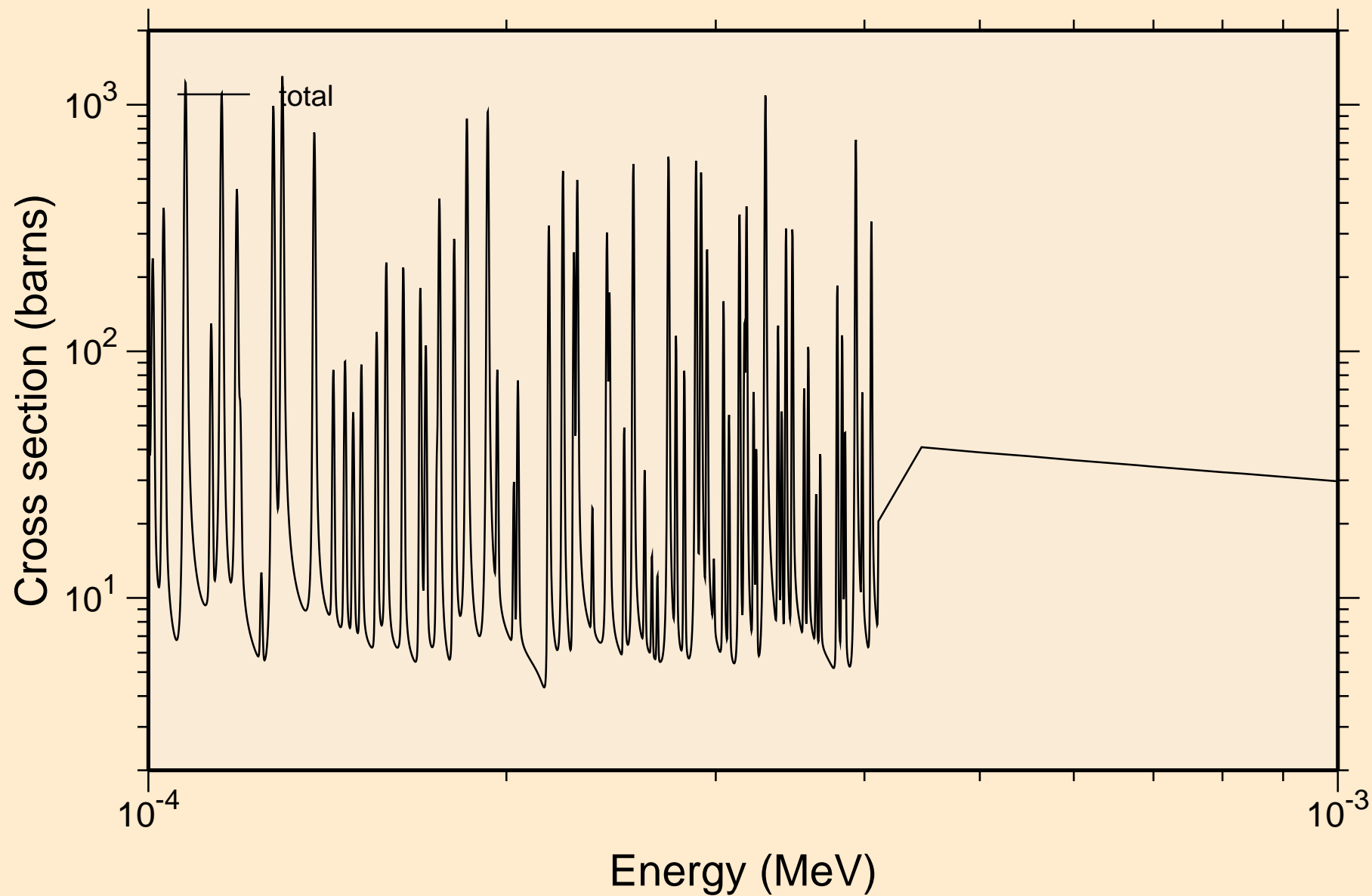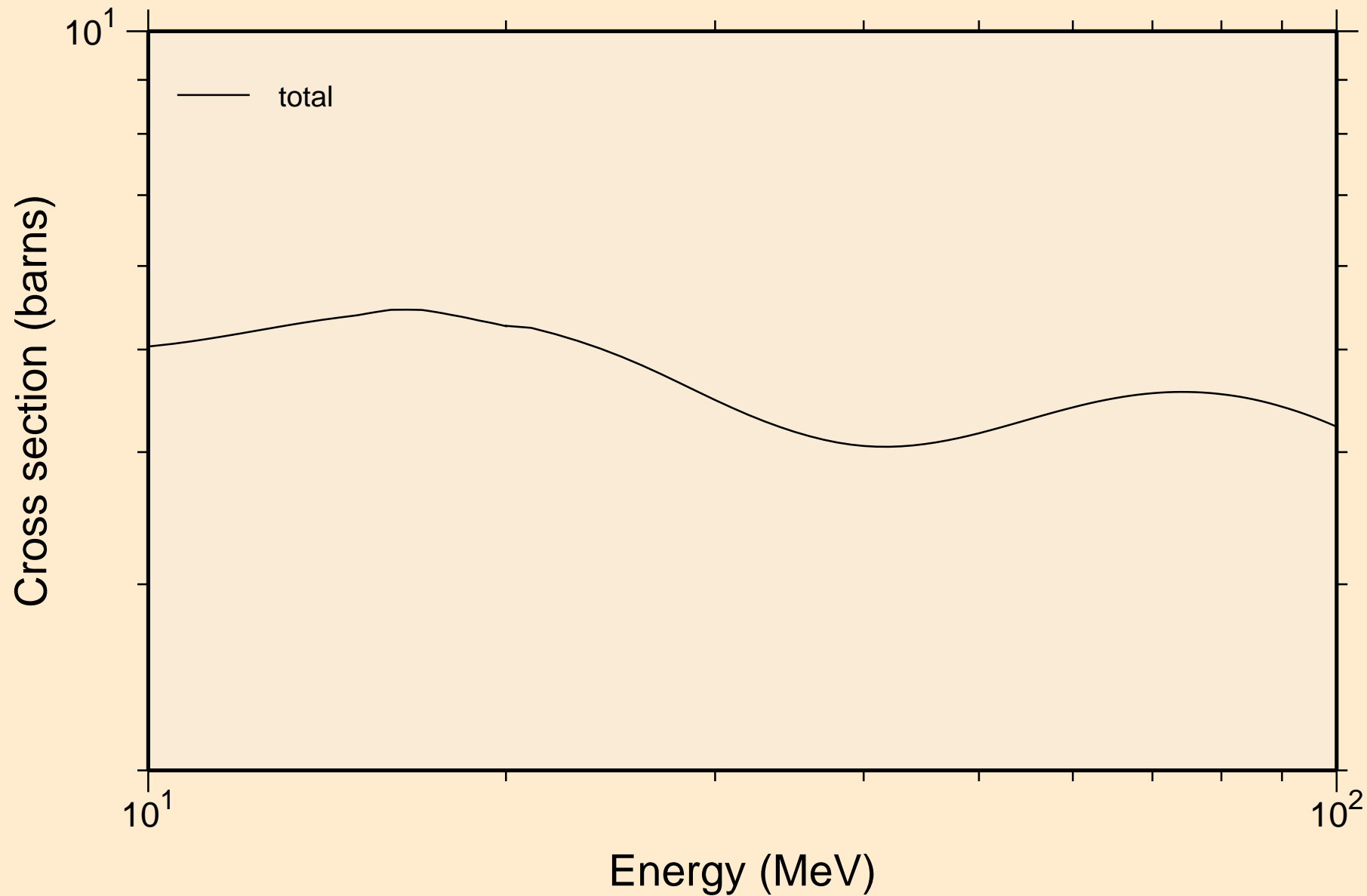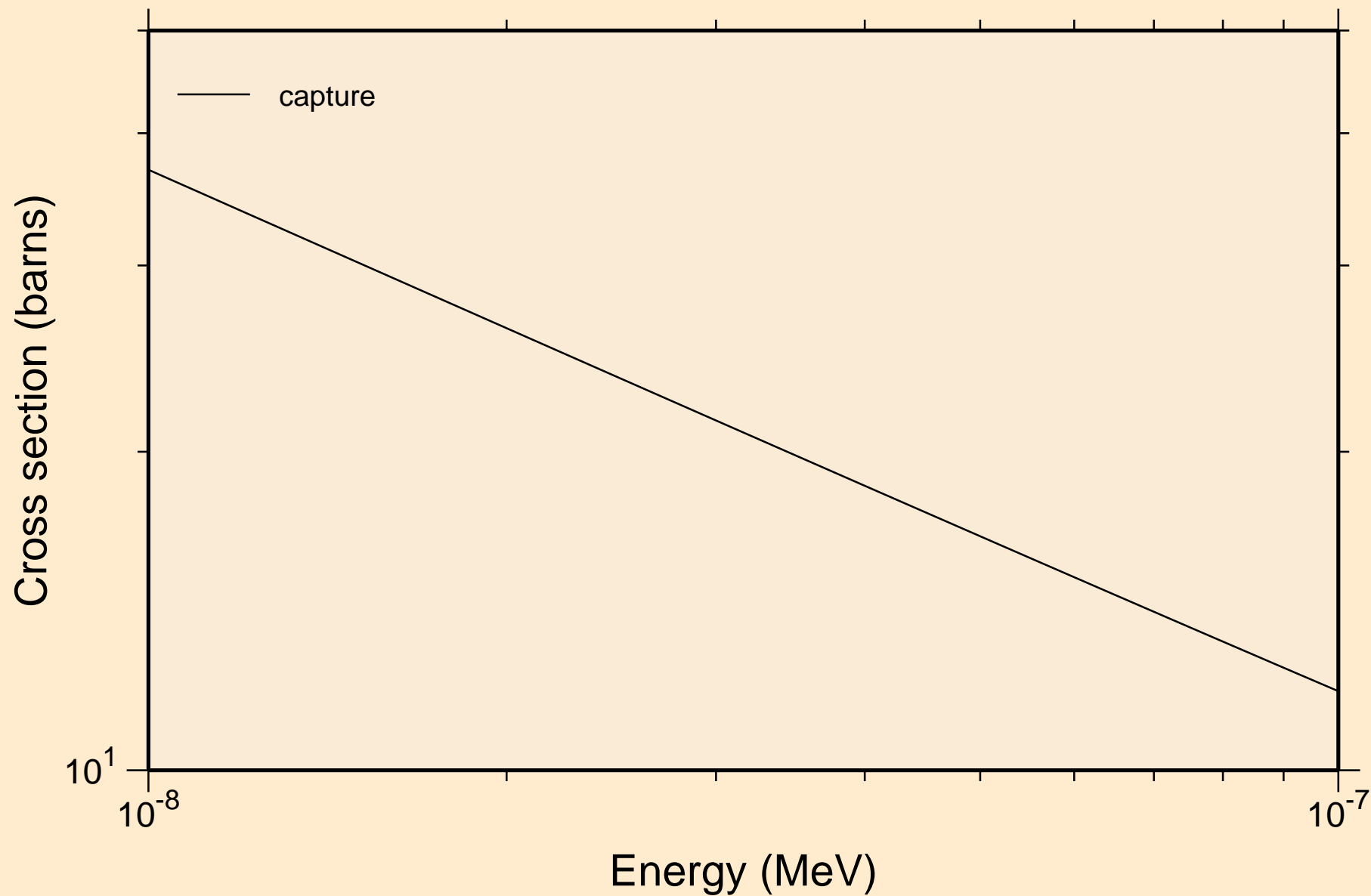
71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
resonance total cross section
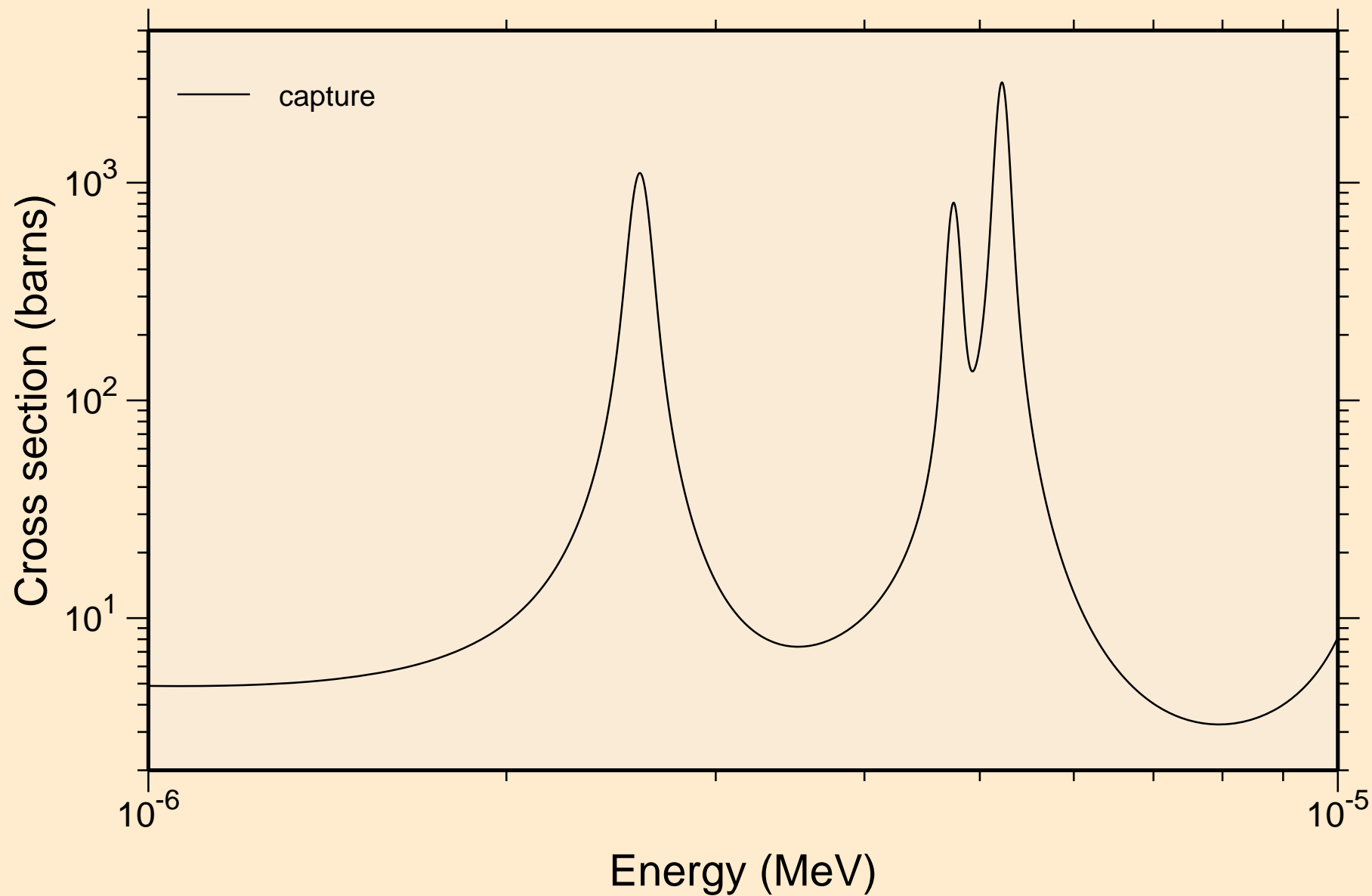
71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
resonance total cross section

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
resonance total cross section

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
resonance absorption cross sections

capture

Cross section (barns)

10^1
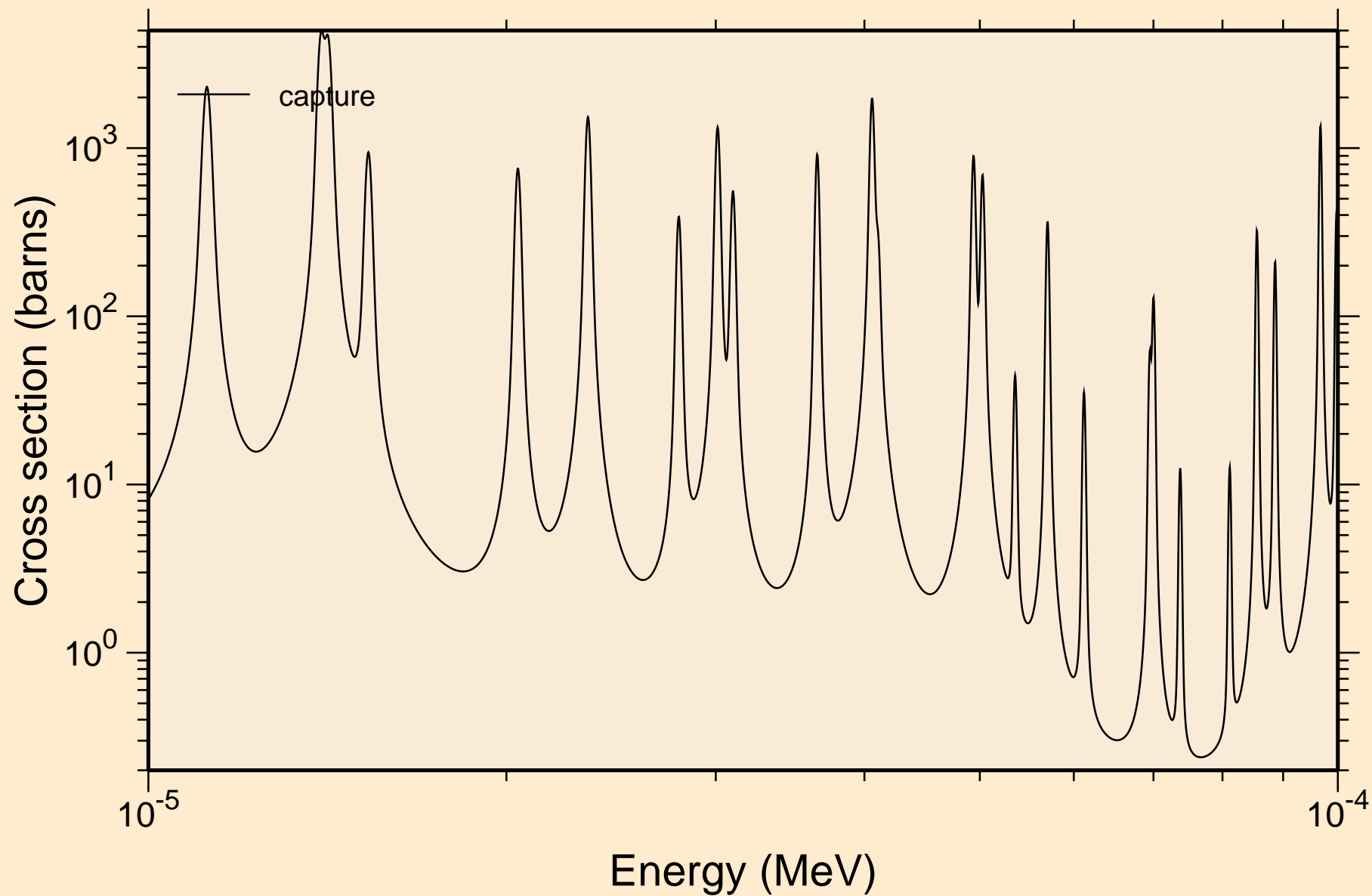
10^{-8}

10^{-7}

Energy (MeV)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
resonance absorption cross sections

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
resonance absorption cross sections
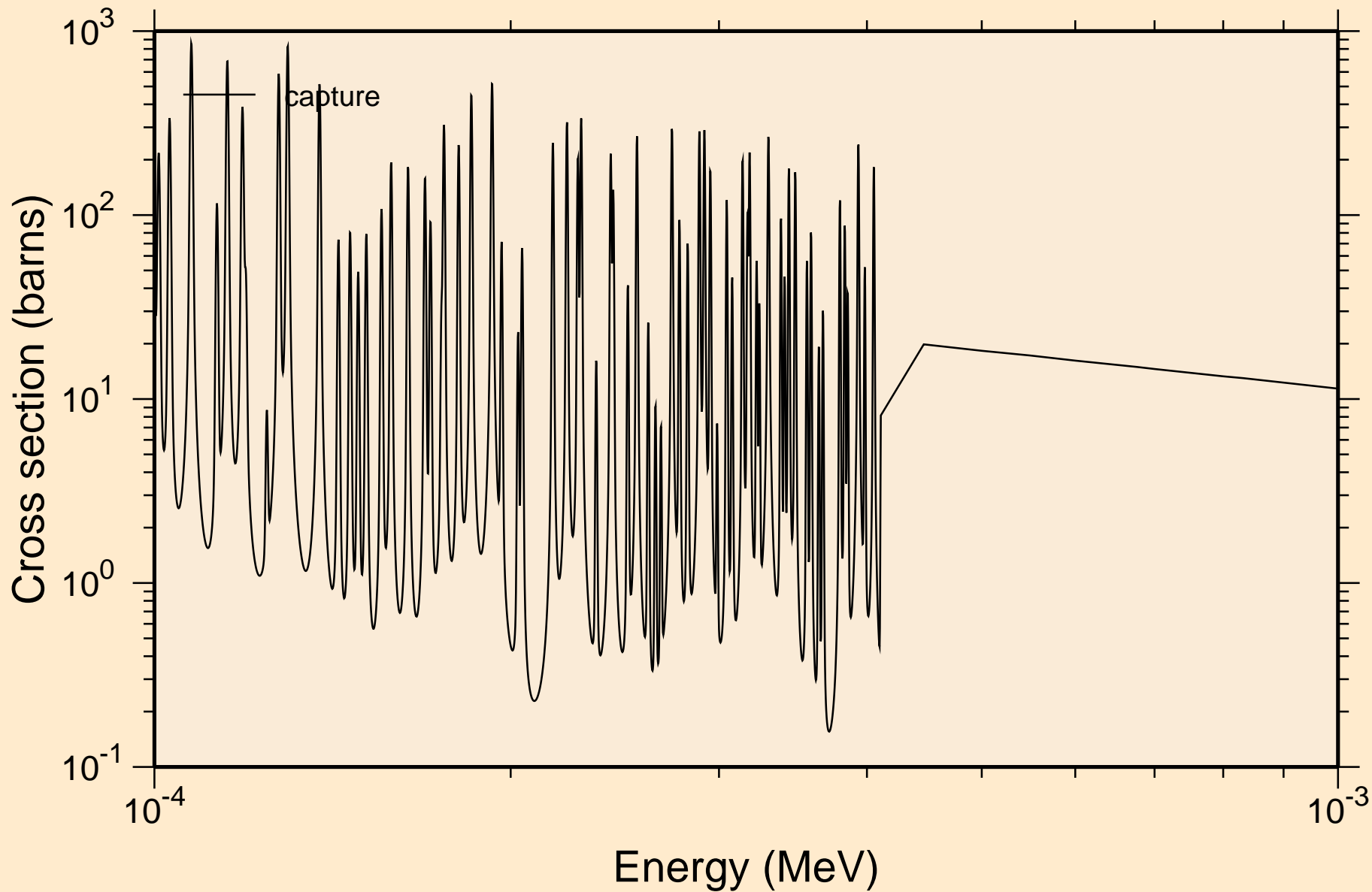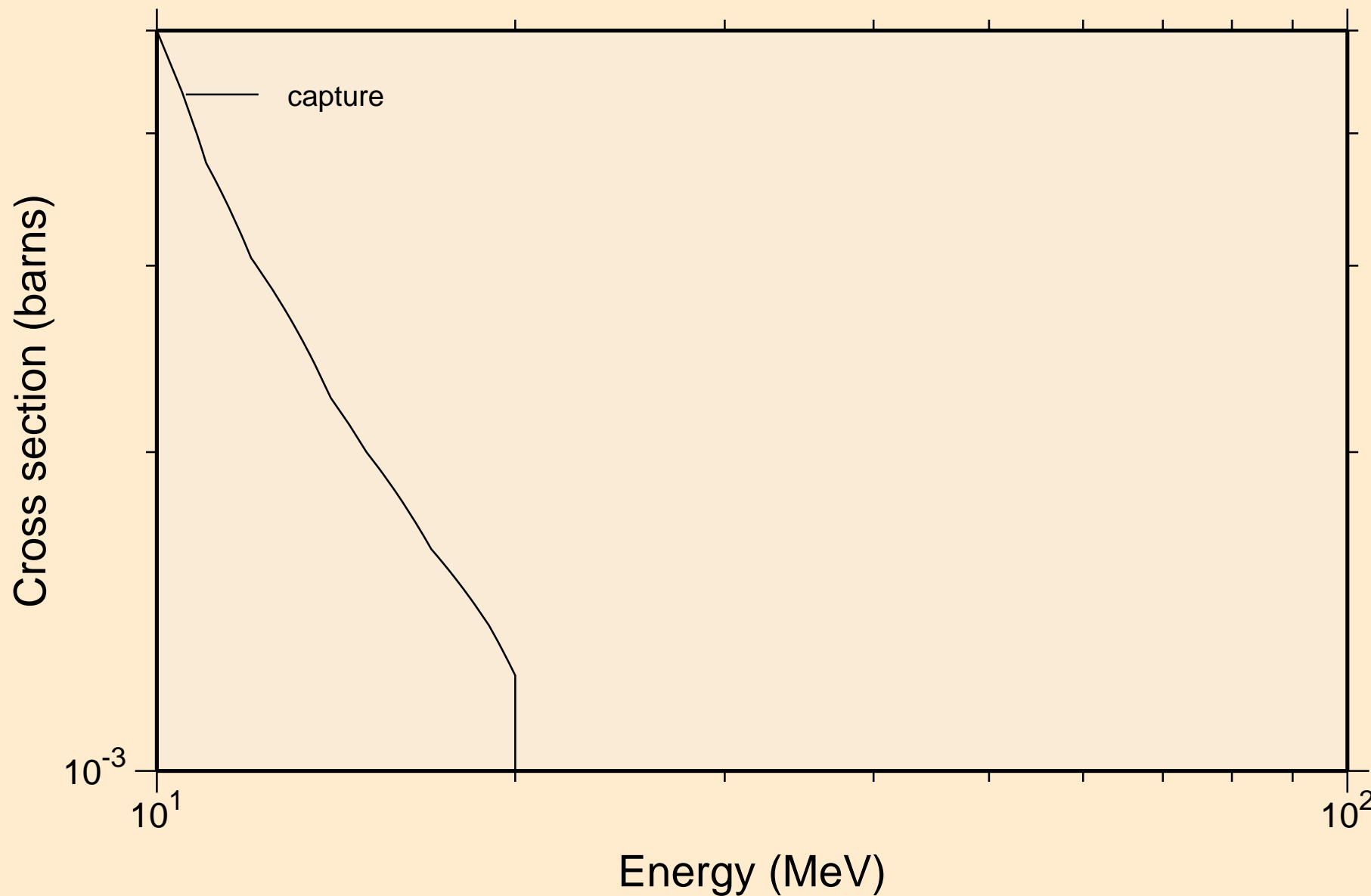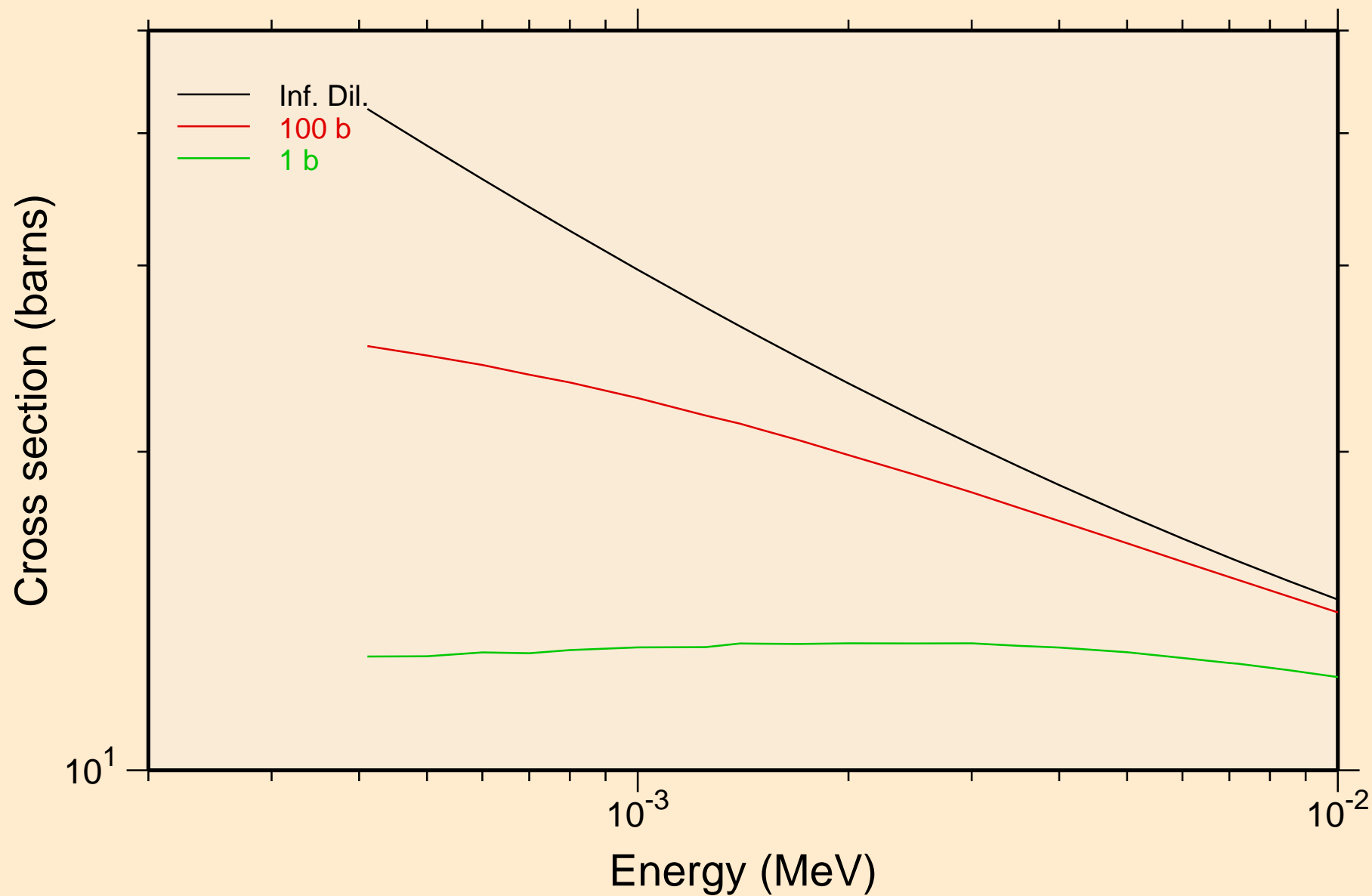
71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
resonance absorption cross sections

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
resonance absorption cross sections
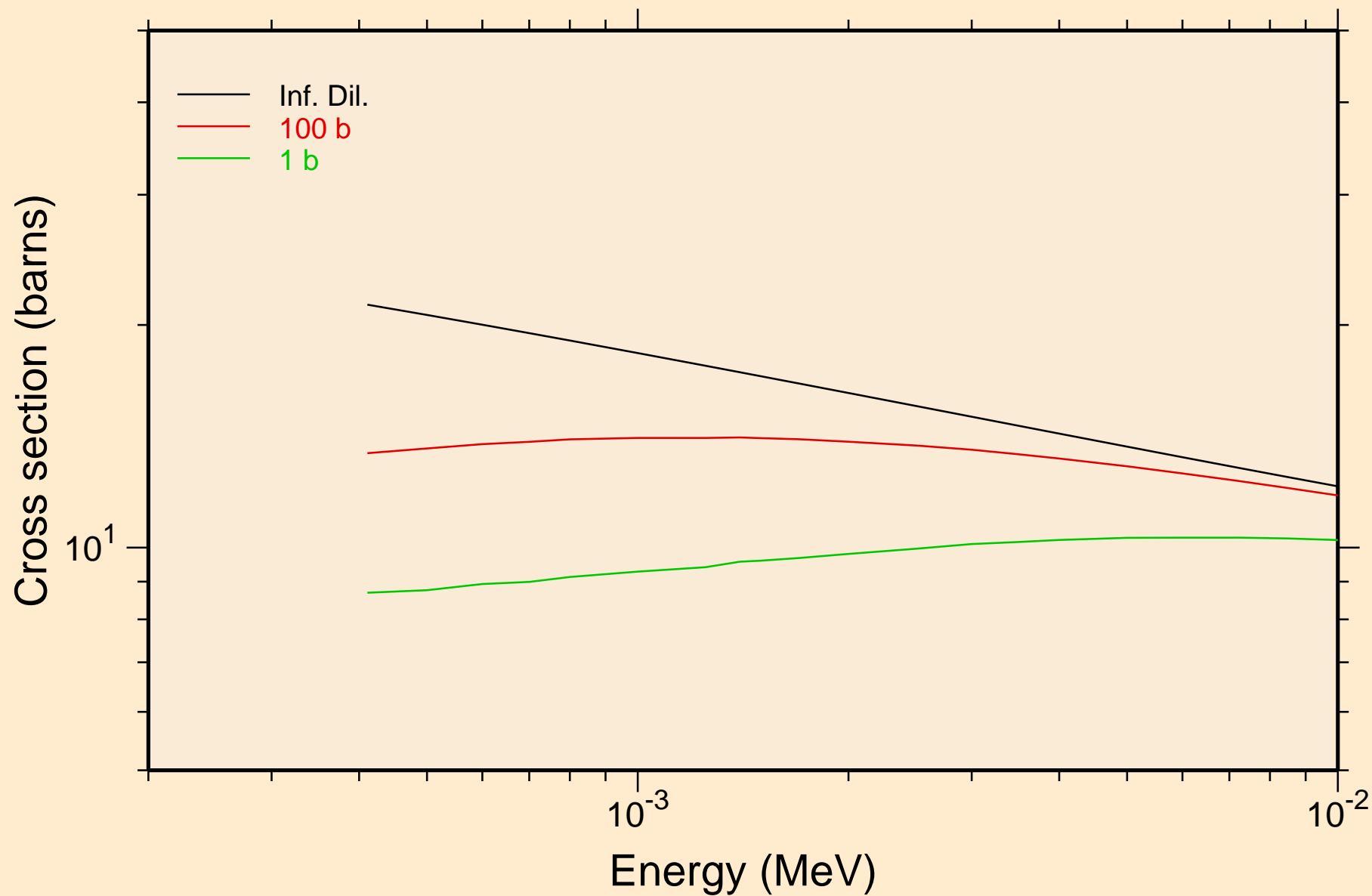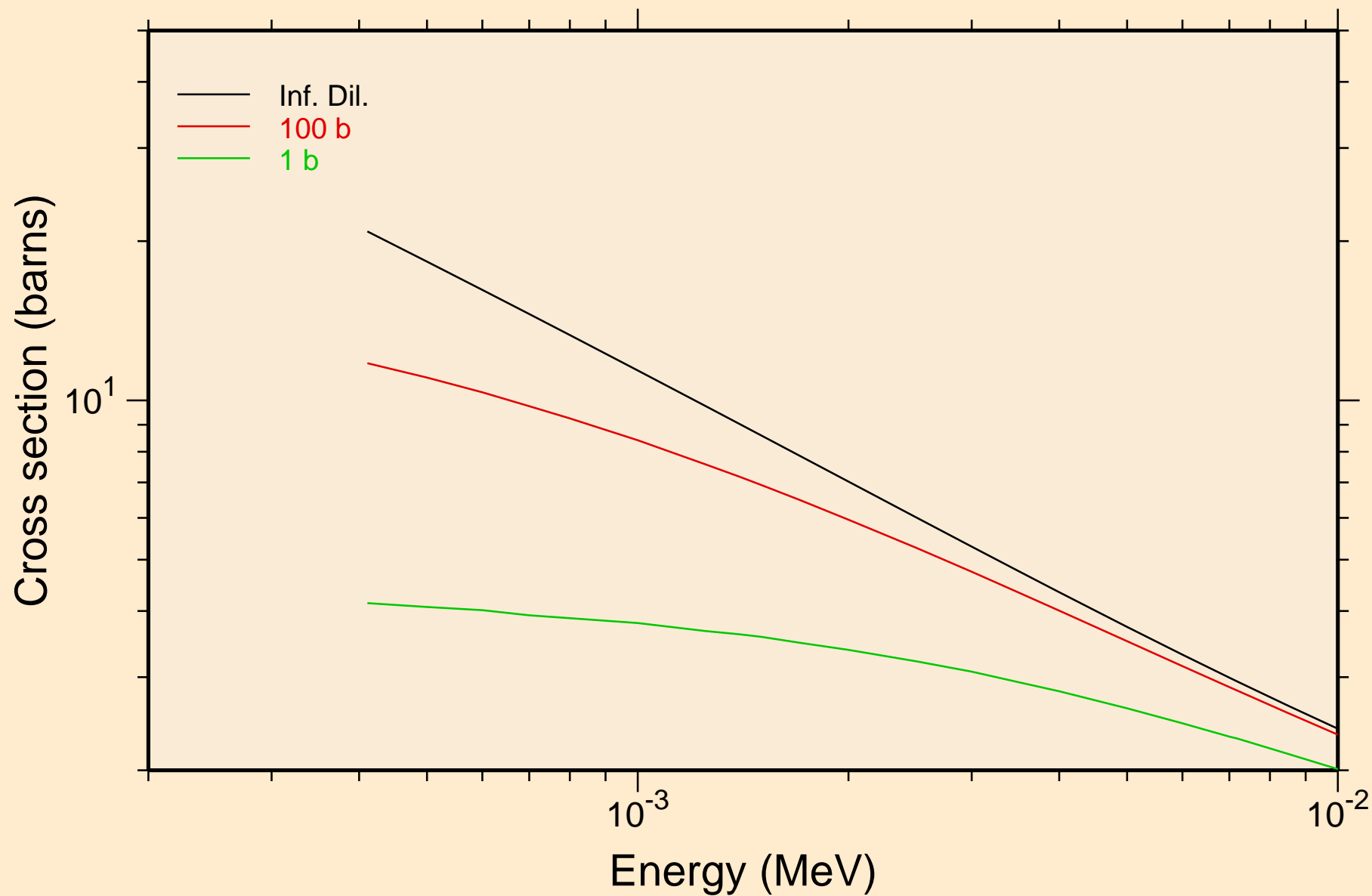
capture

Cross section (barns)

Energy (MeV)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
UR total cross section

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
UR elastic cross section

Inf. Dil.
100 b
1 b

Cross section (barns)

10^1

10^{-3}　　　10^{-2}

Energy (MeV)

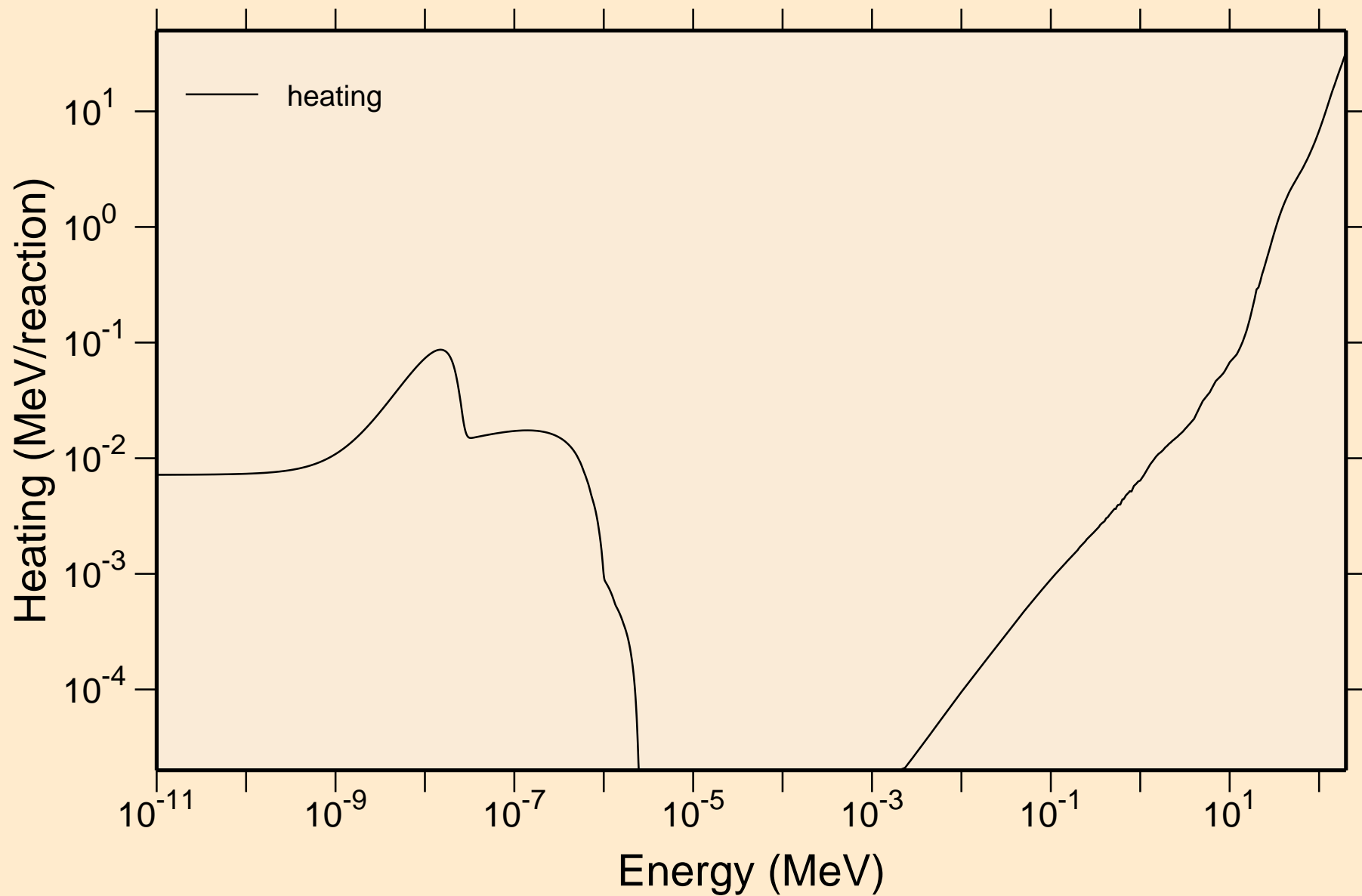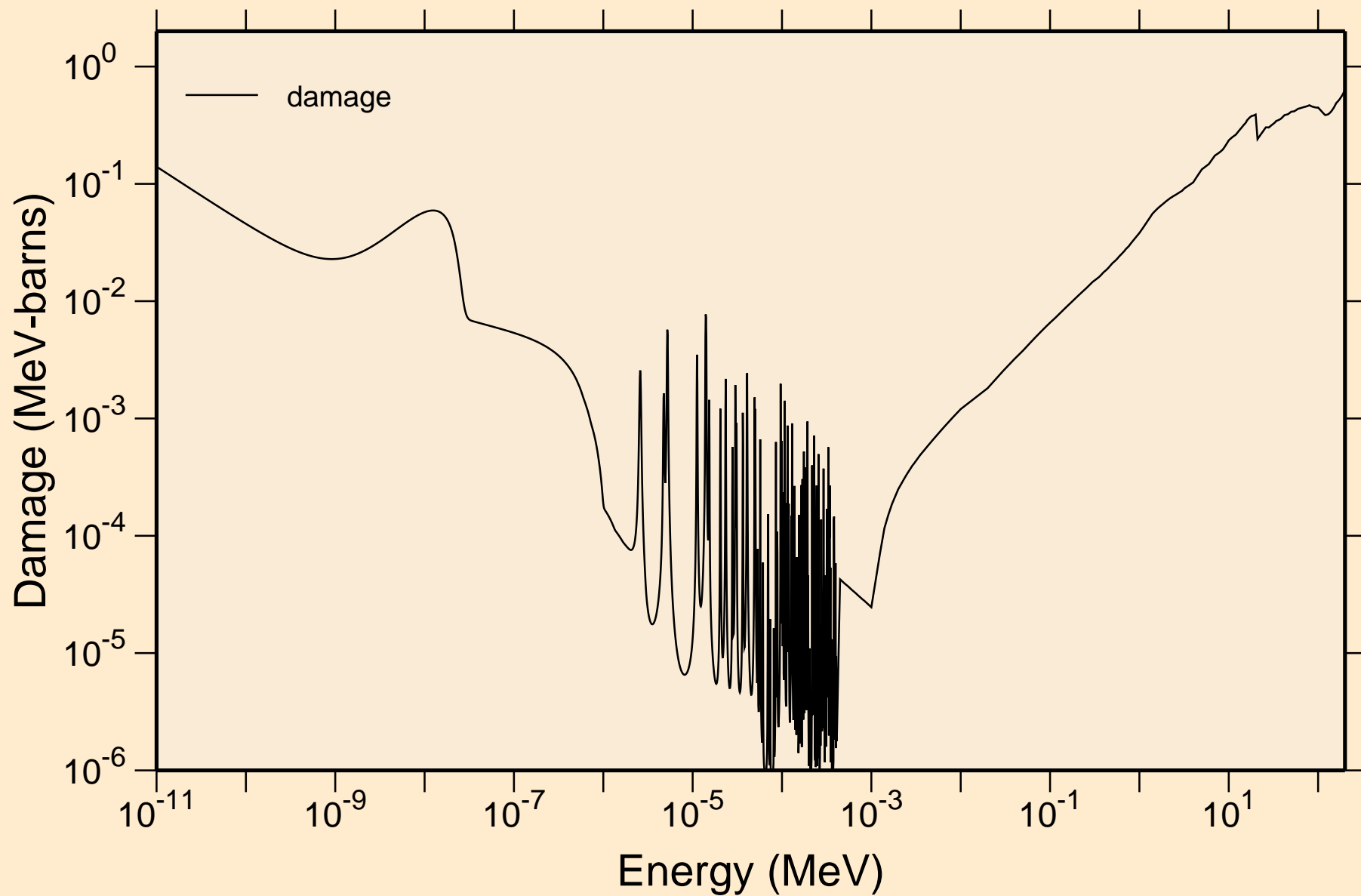71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
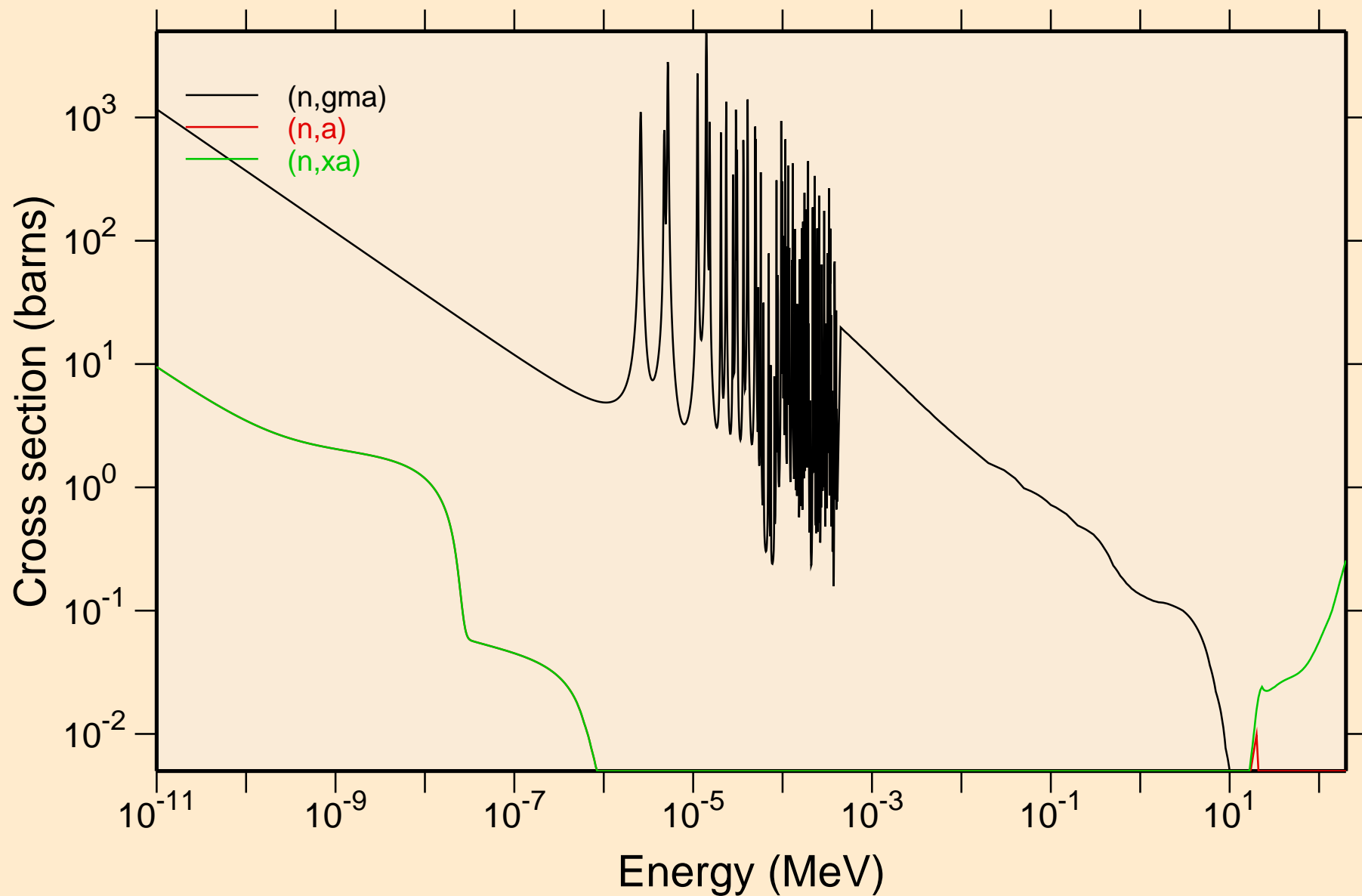UR capture cross section

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
Heating

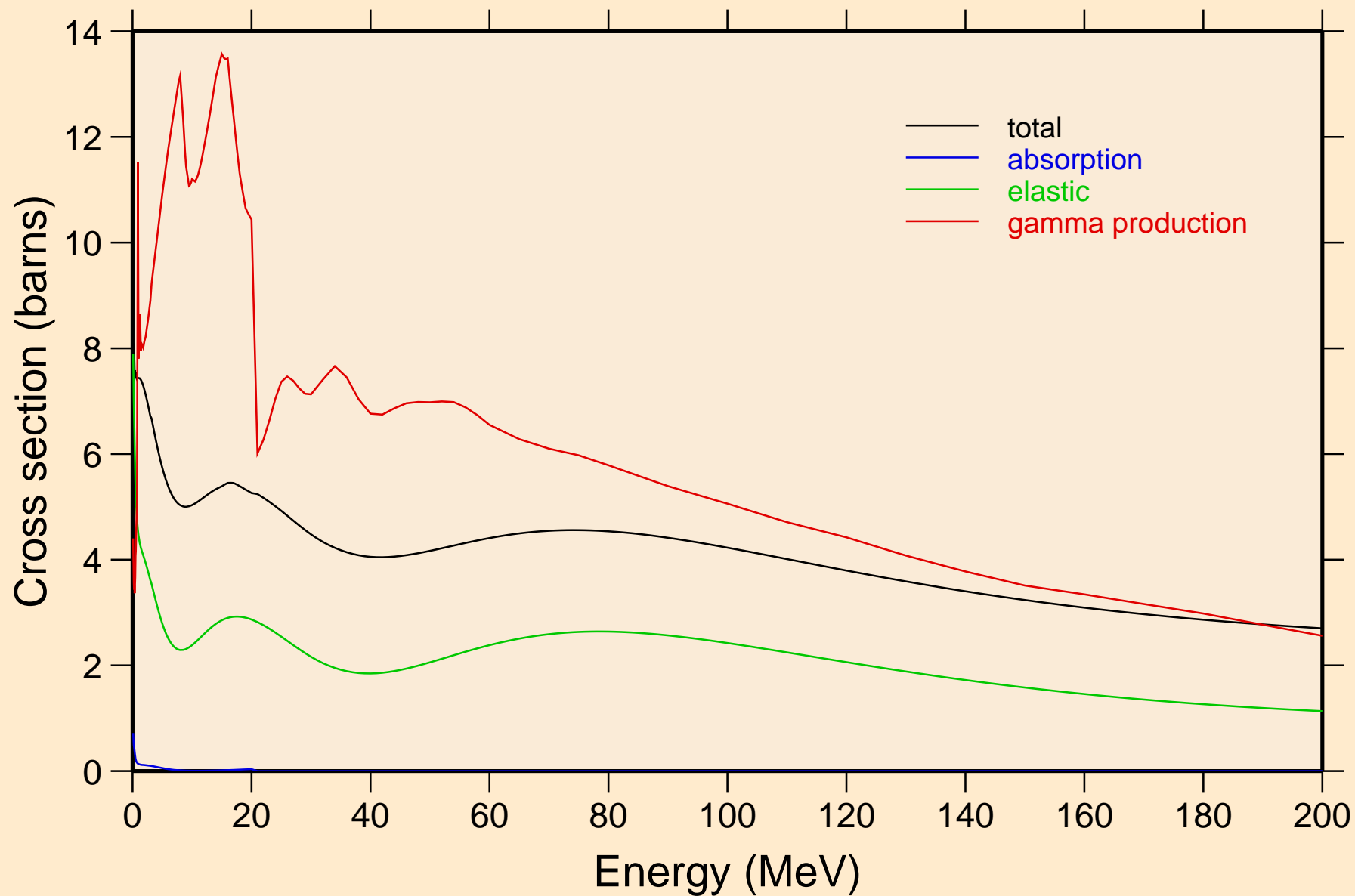71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
Damage

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
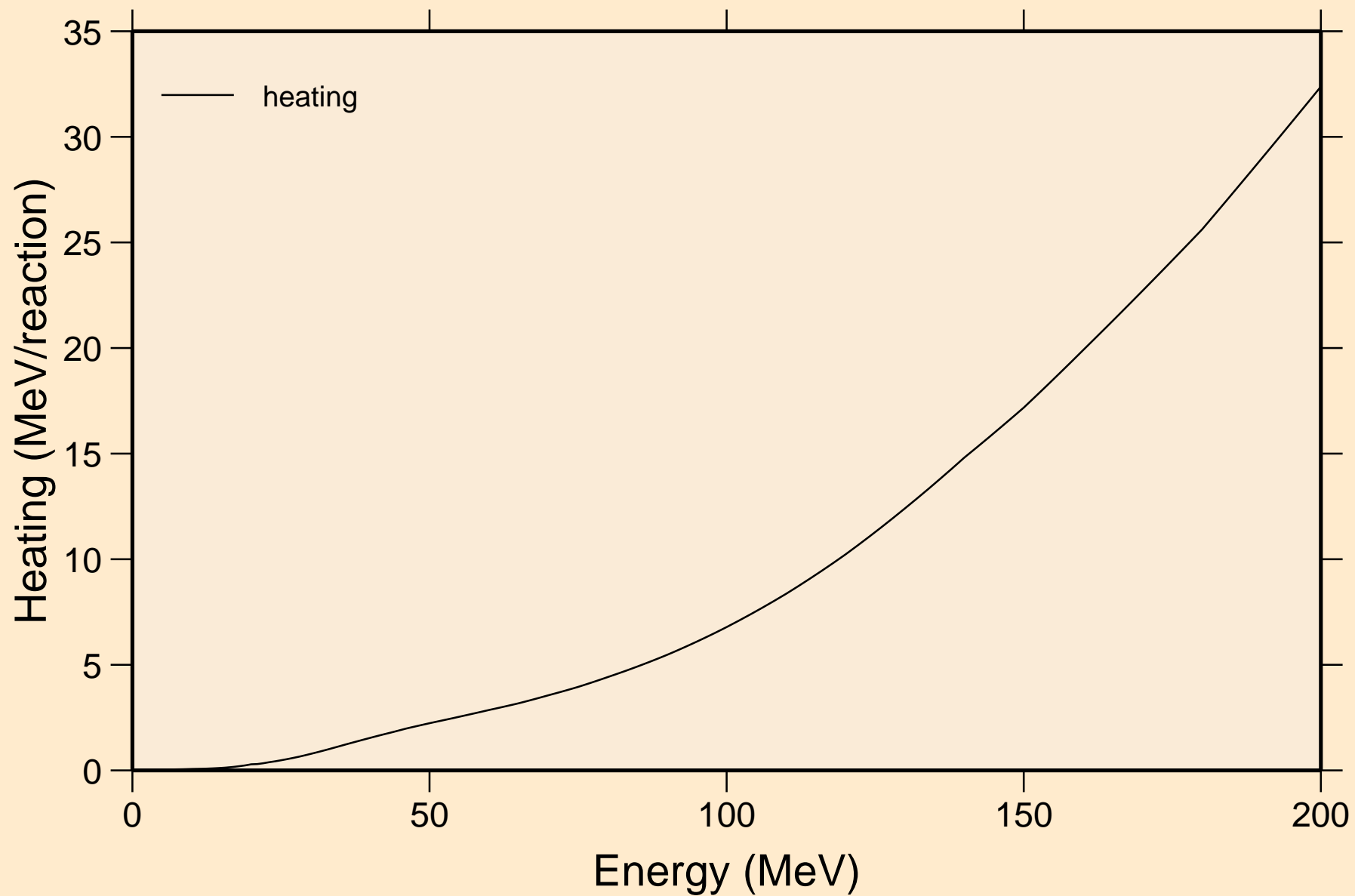Non-threshold reactions

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
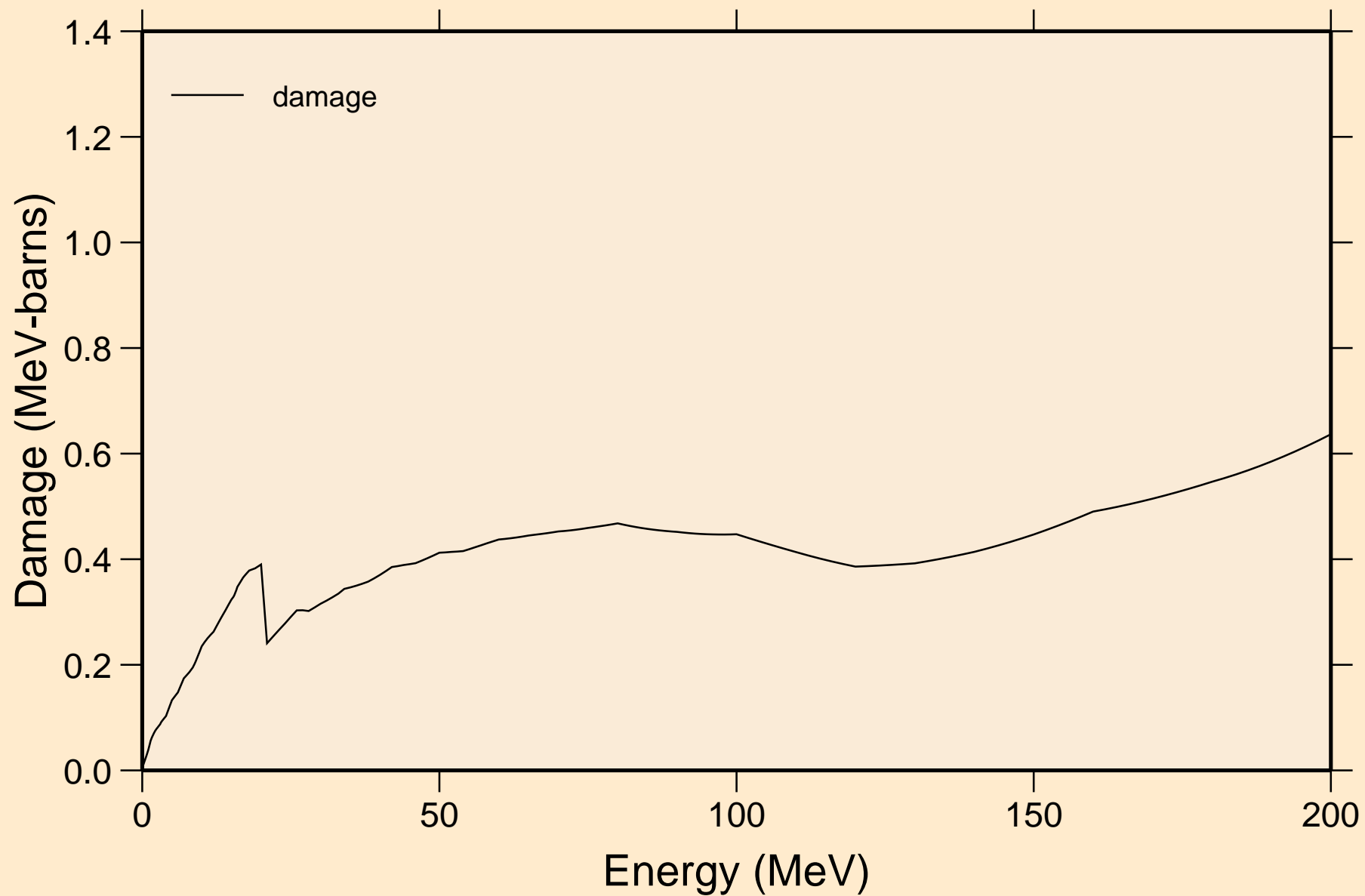Principal cross sections

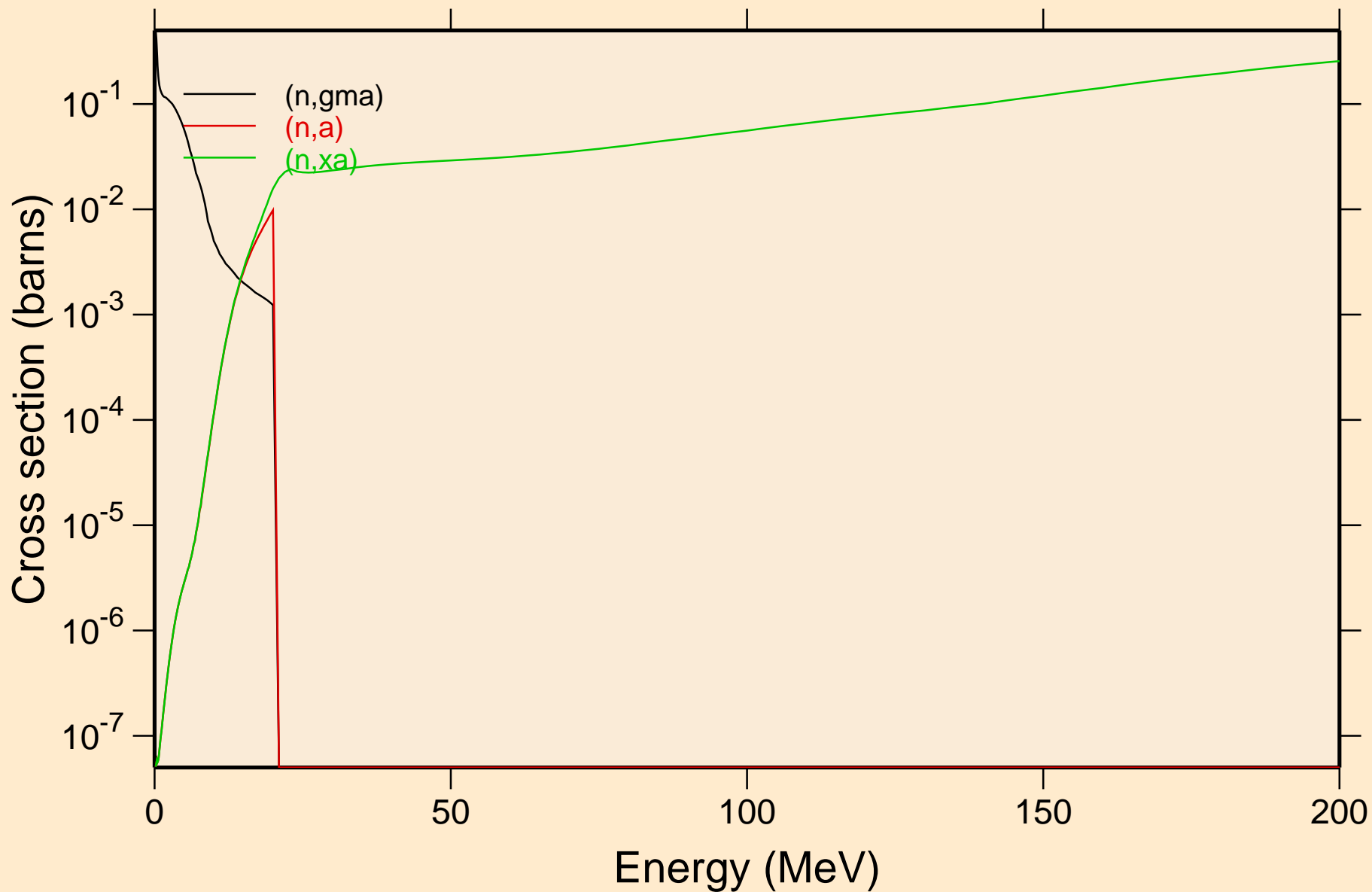71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
Heating
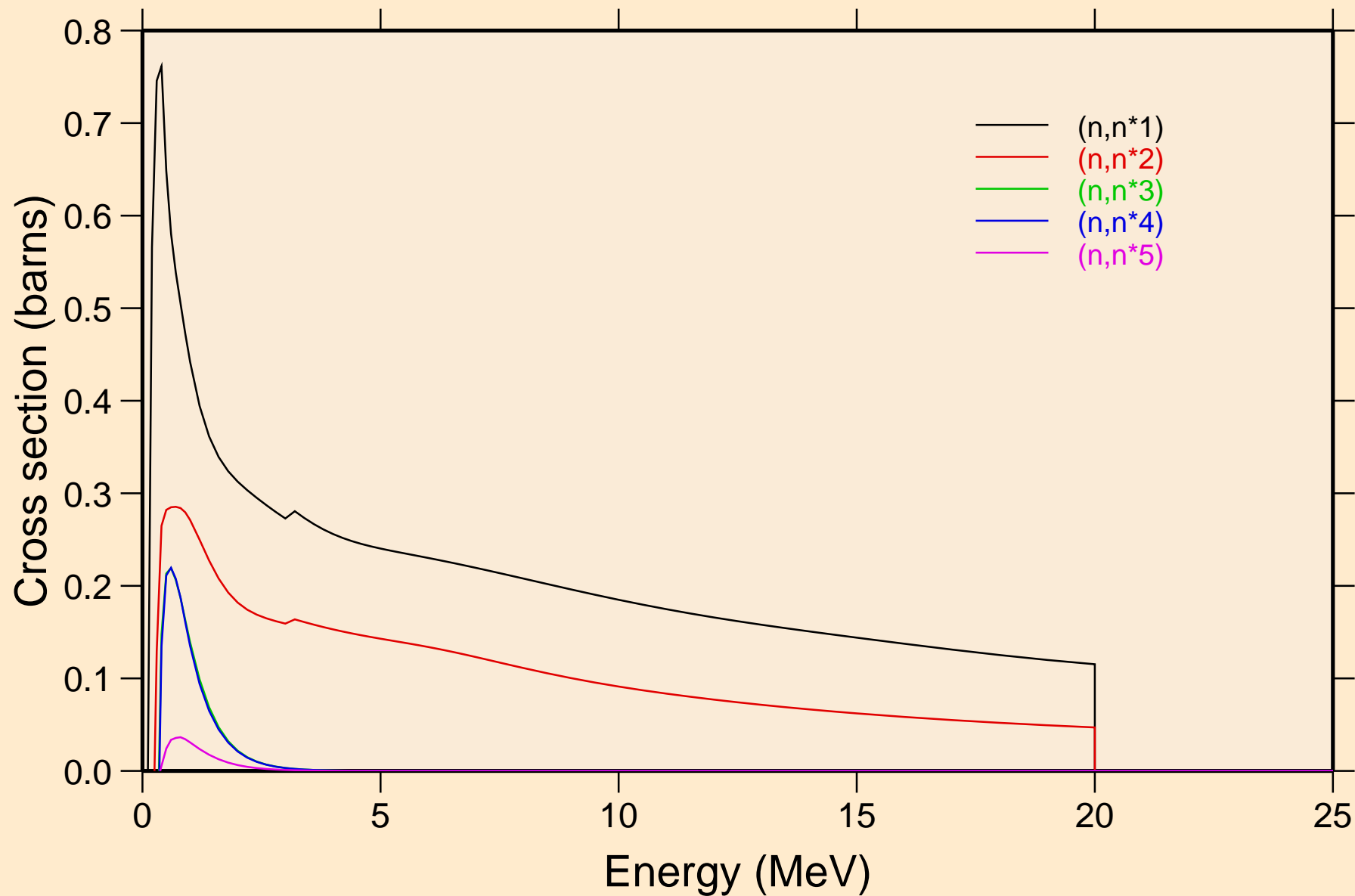
71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5

Damage

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
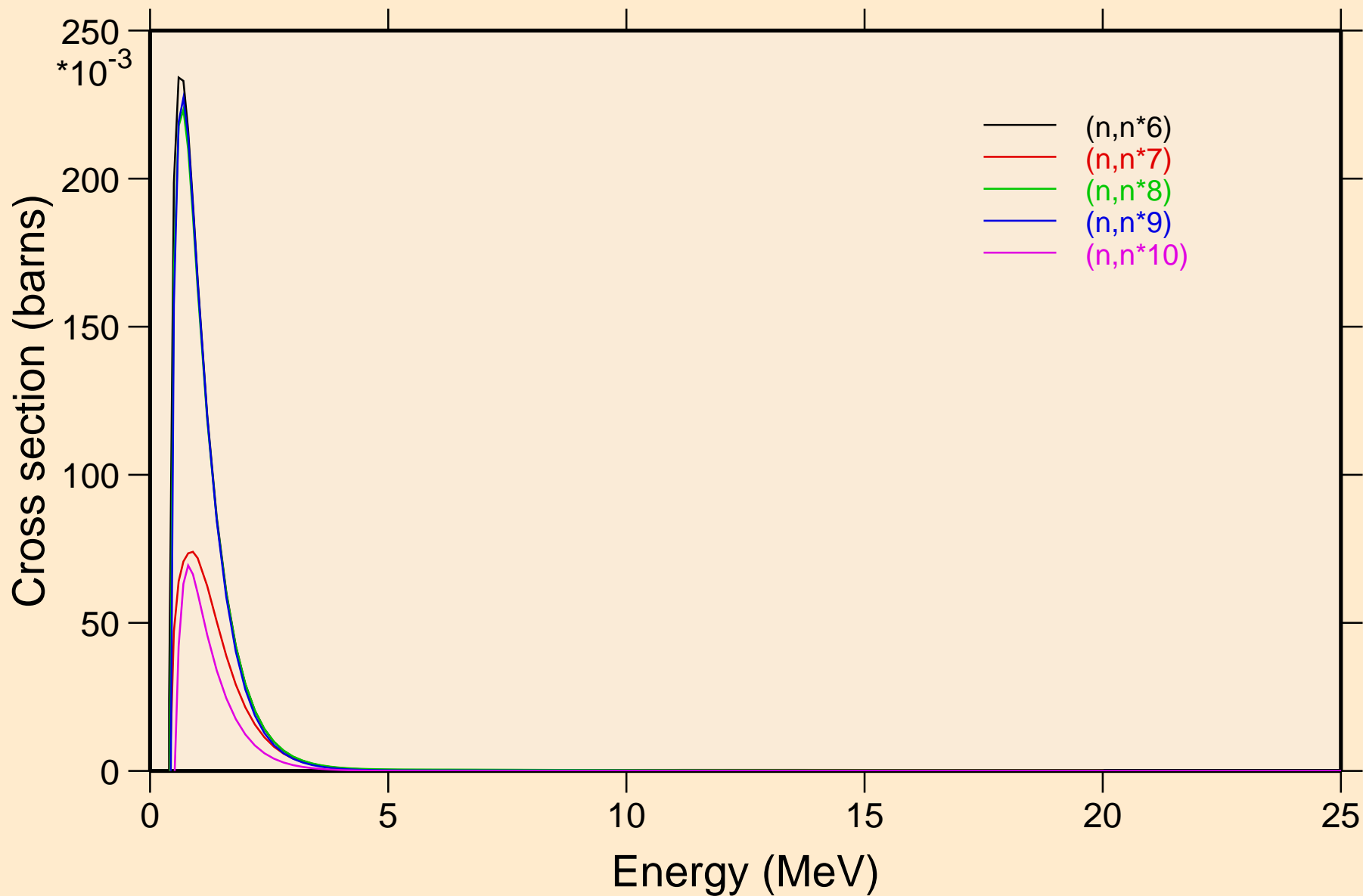Non-threshold reactions

- (n,gma)
- (n,a)
- (n,xa)

Cross section (barns)

Energy (MeV)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
Inelastic levels

Cross section (barns)

Energy (MeV)

(n,n*1)
(n,n*2)
(n,n*3)
(n,n*4)
(n,n*5)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
Inelastic levels

Cross section (barns)
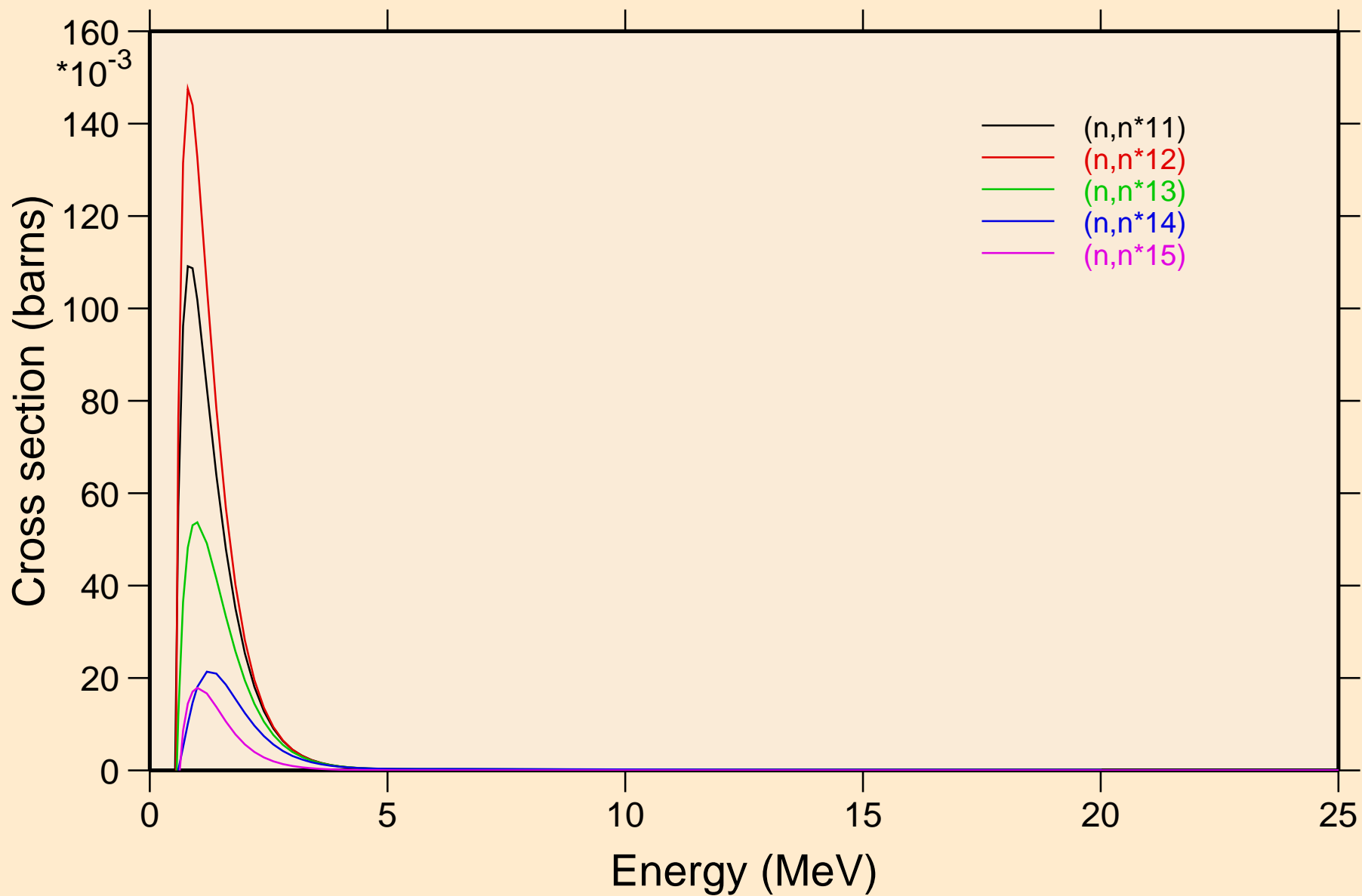
Energy (MeV)

(n,n*6)
(n,n*7)
(n,n*8)
(n,n*9)
(n,n*10)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
Inelastic levels

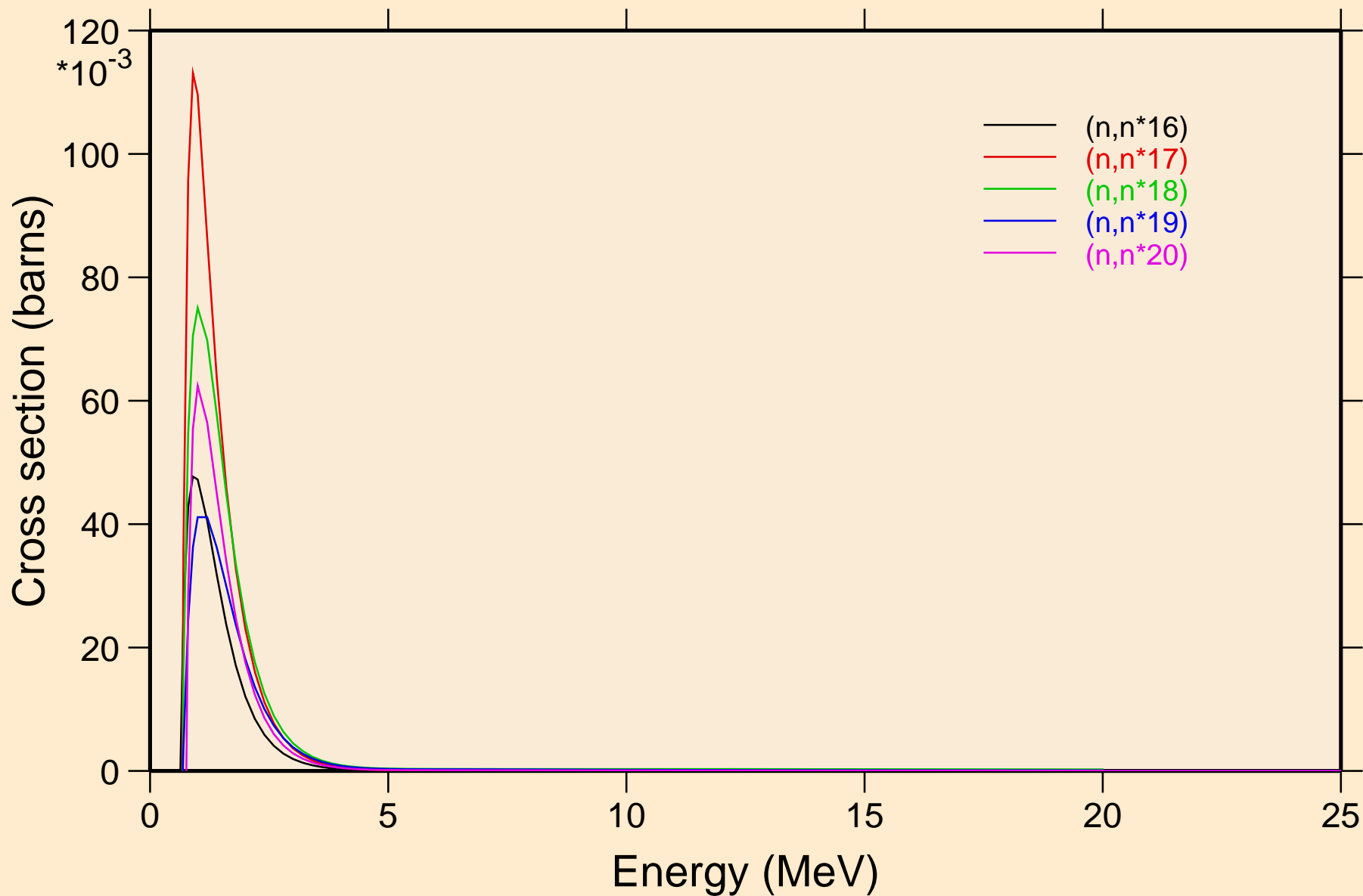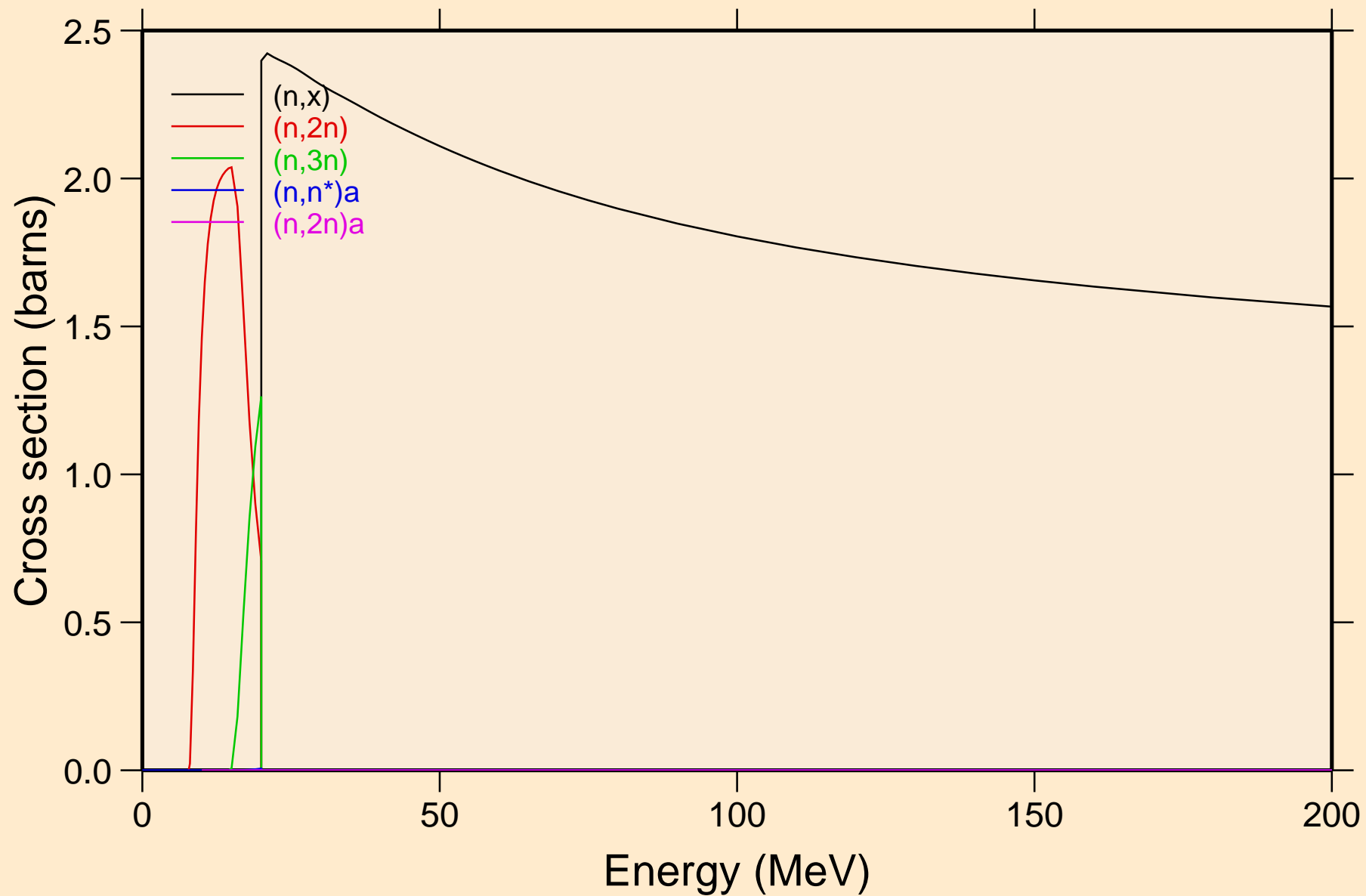71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
Inelastic levels

Cross section (barns)

120
*10^{-3}
100
80
60
40
20
0

(n,n*16)
(n,n*17)
(n,n*18)
(n,n*19)
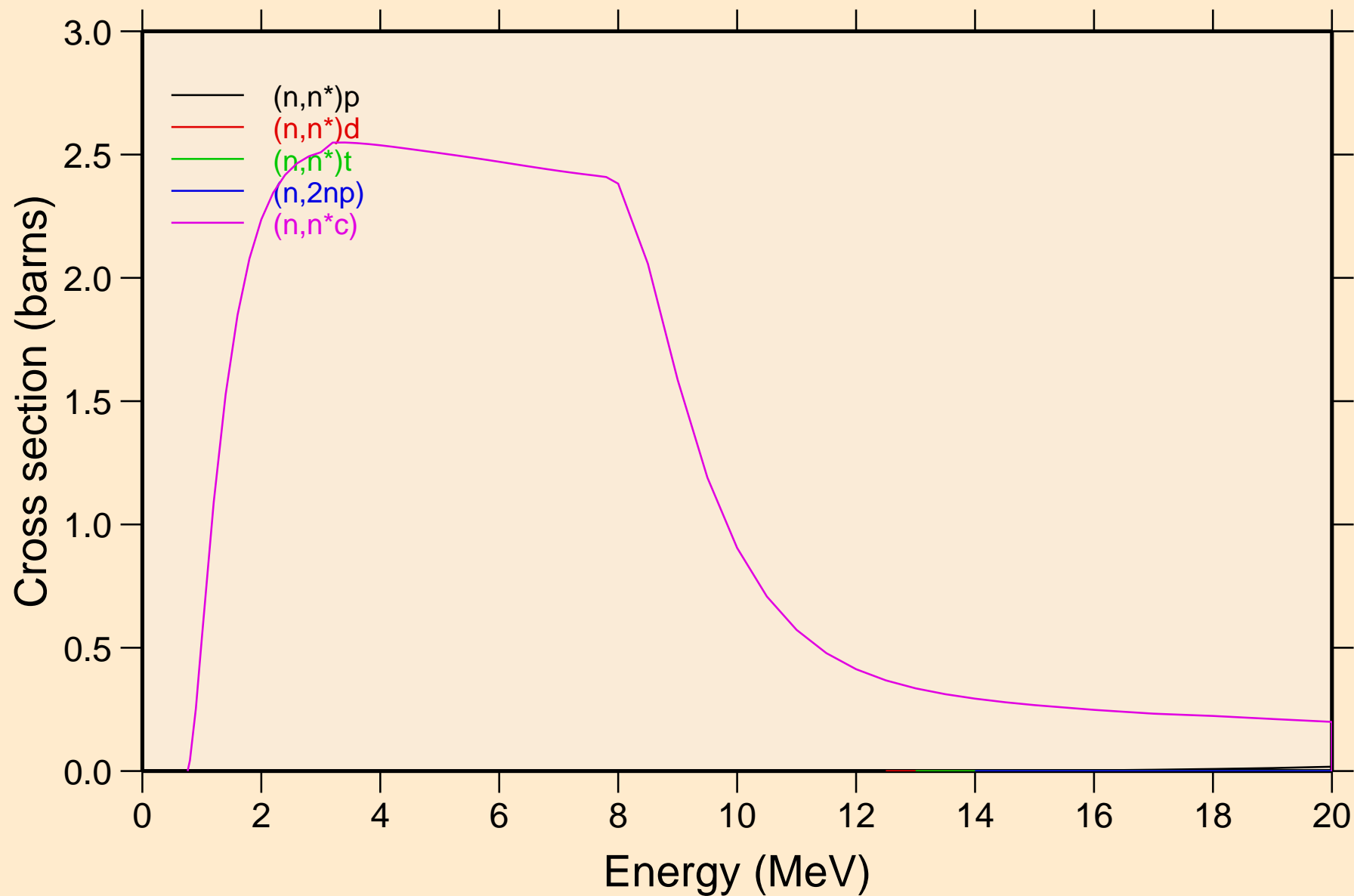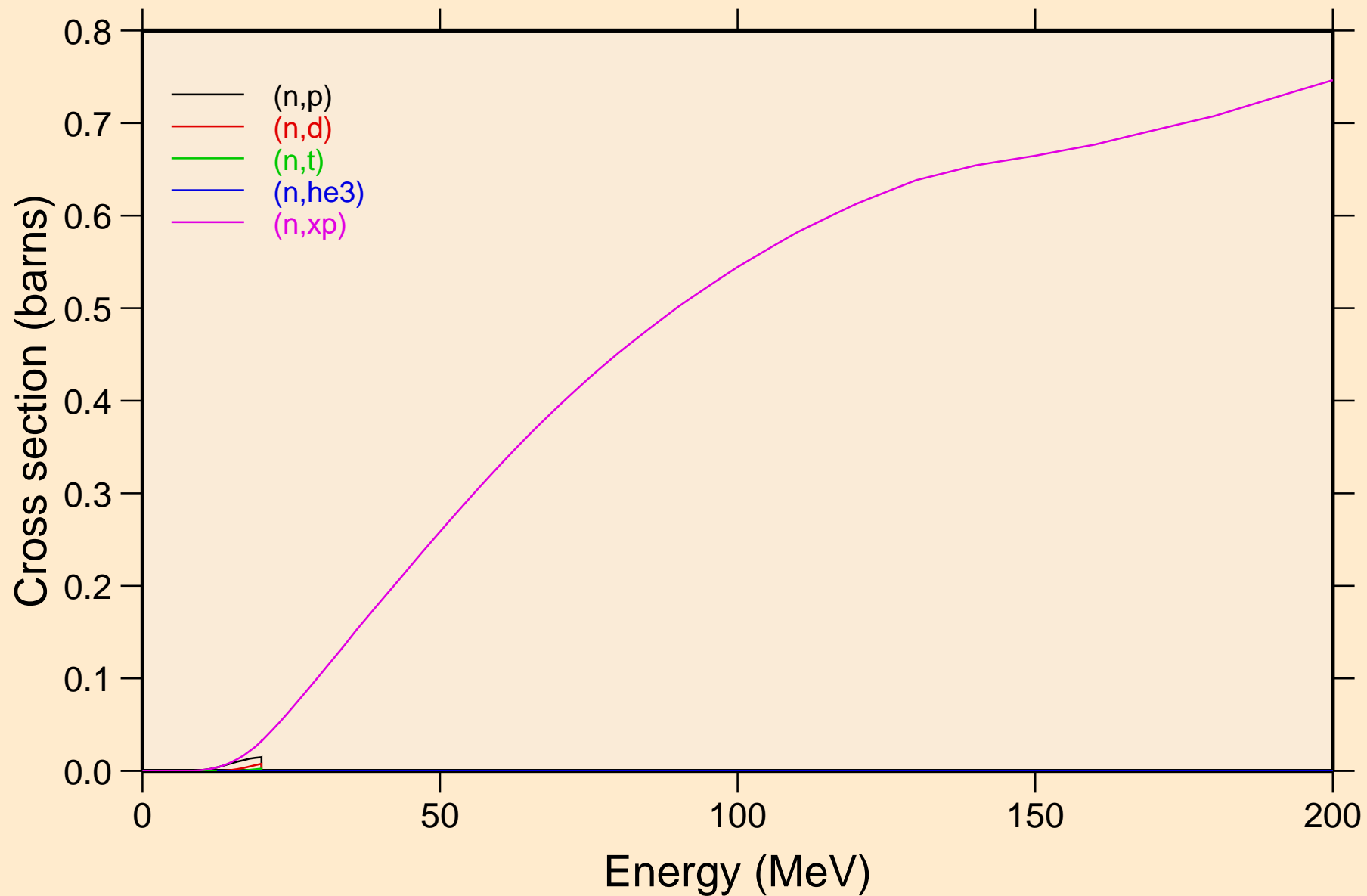(n,n*20)

0   5   10   15   20   25

Energy (MeV)

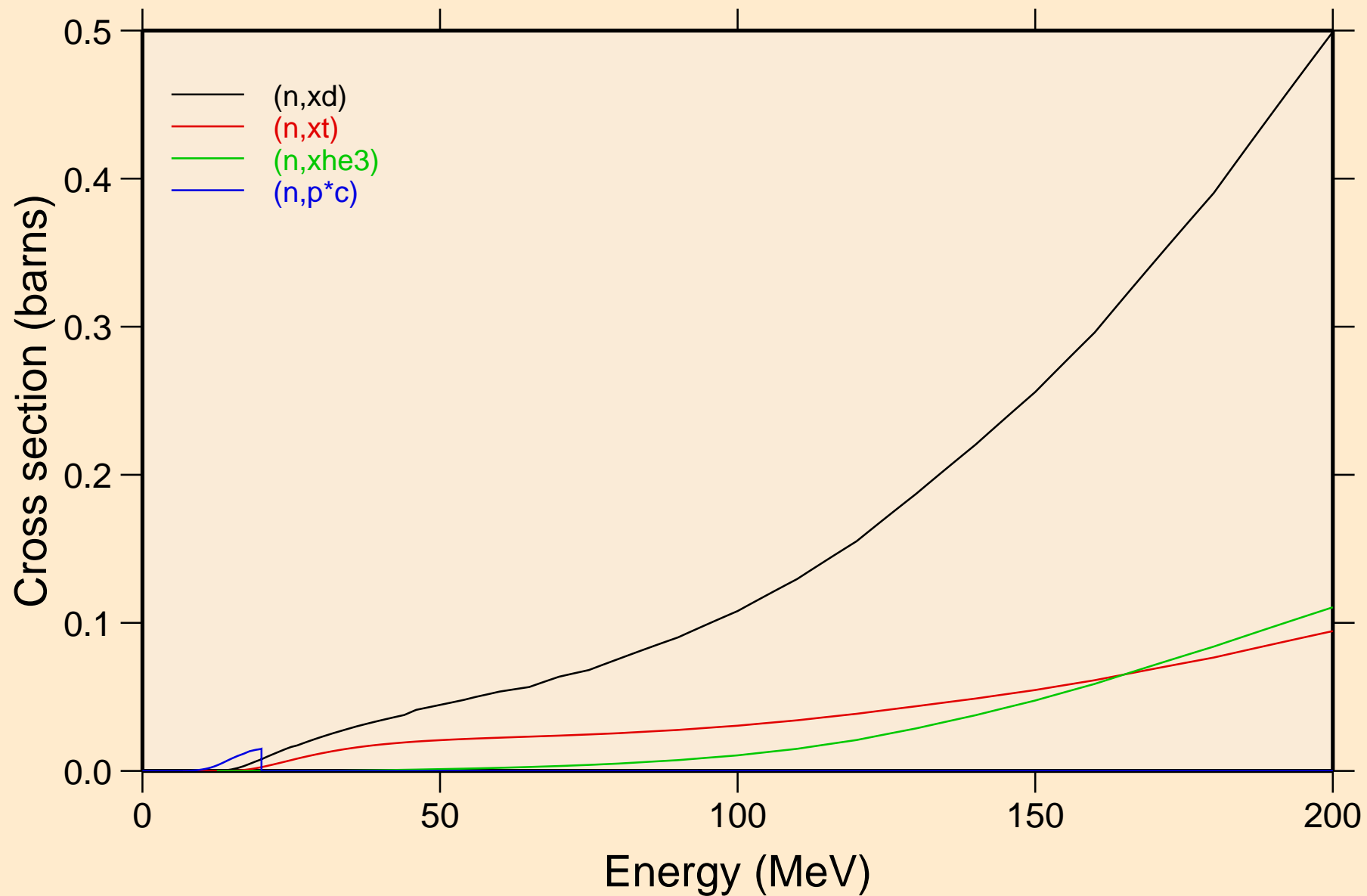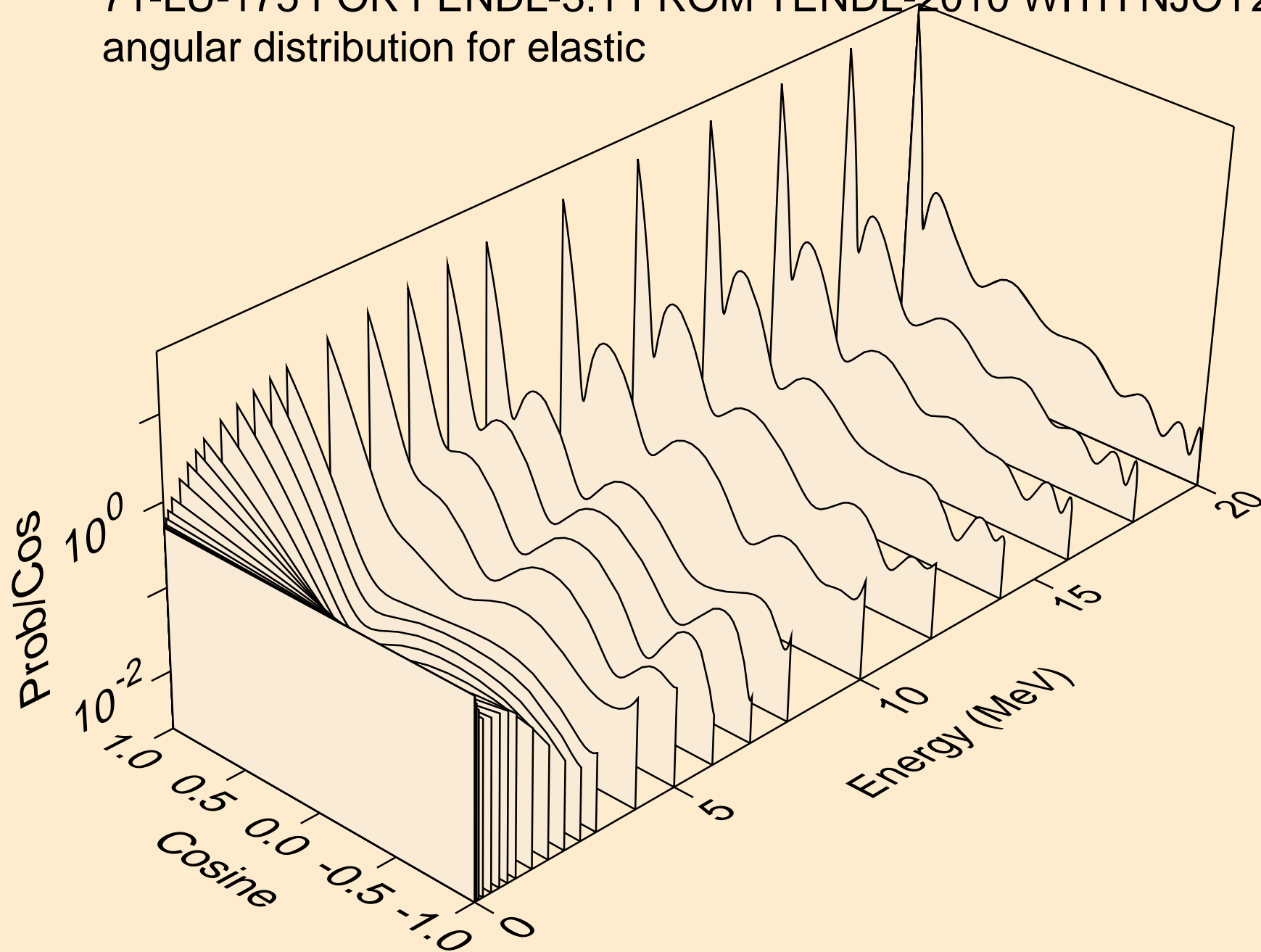71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
Threshold reactions

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
Threshold reactions

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
Threshold reactions

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
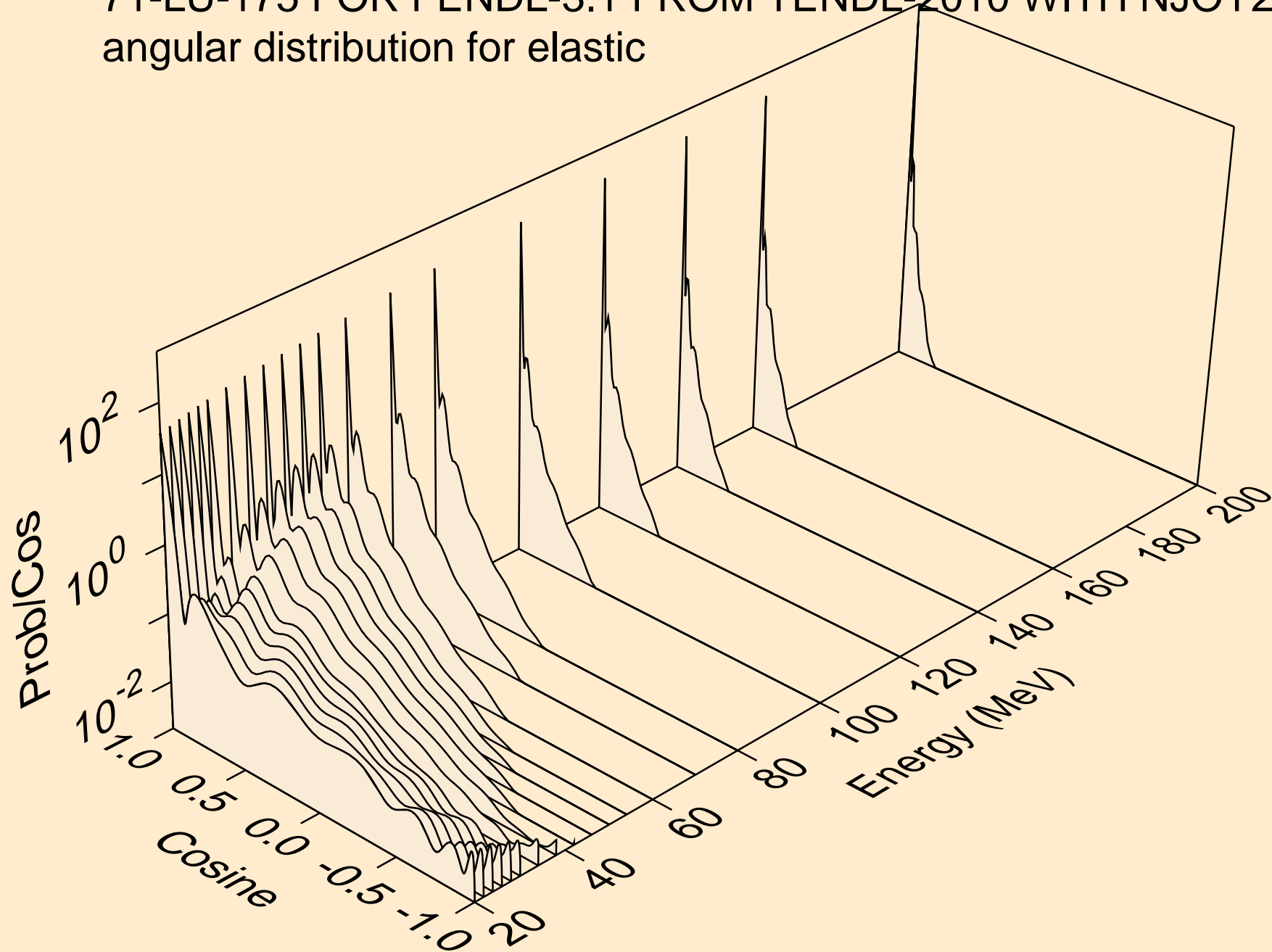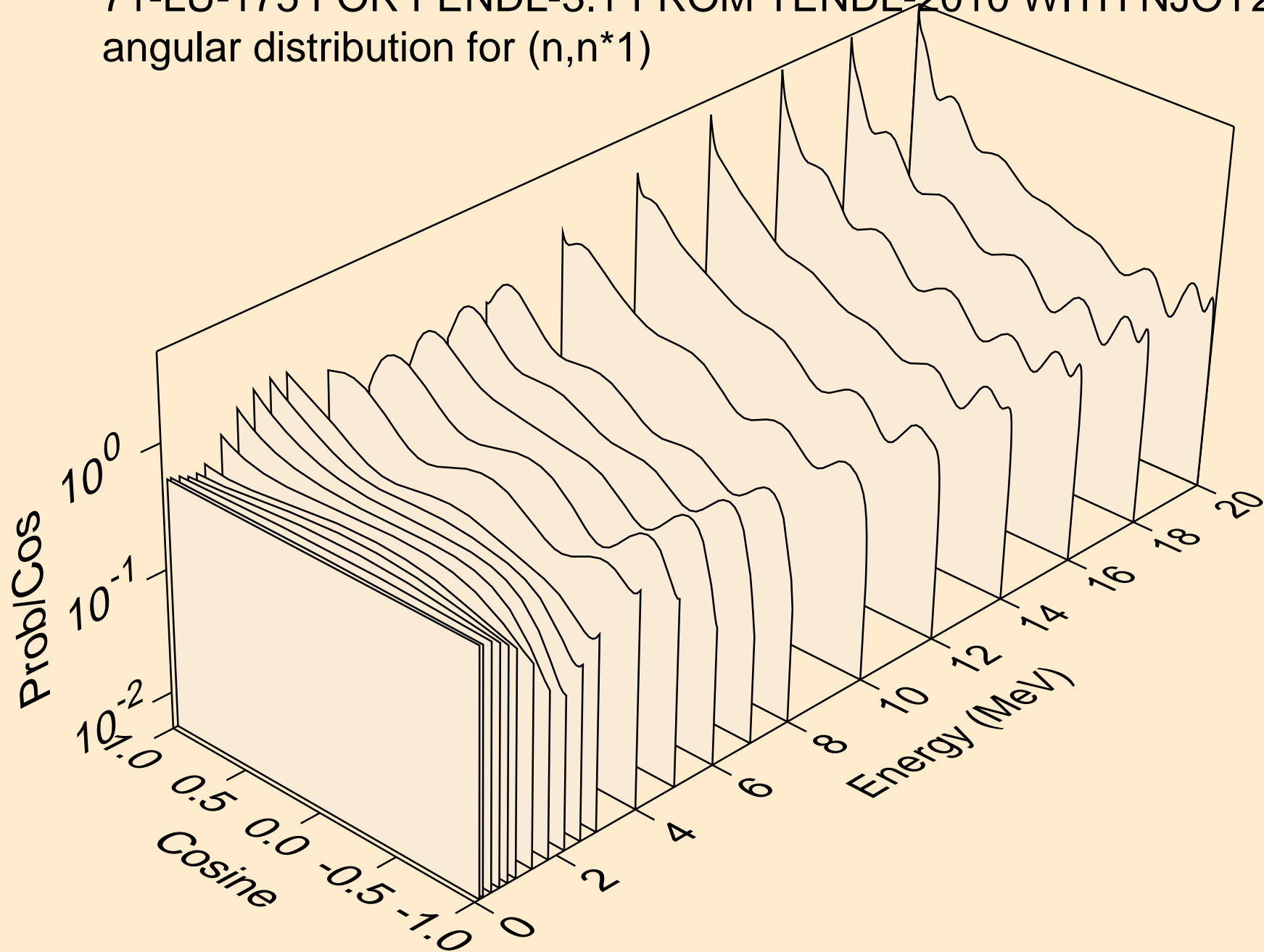Threshold reactions

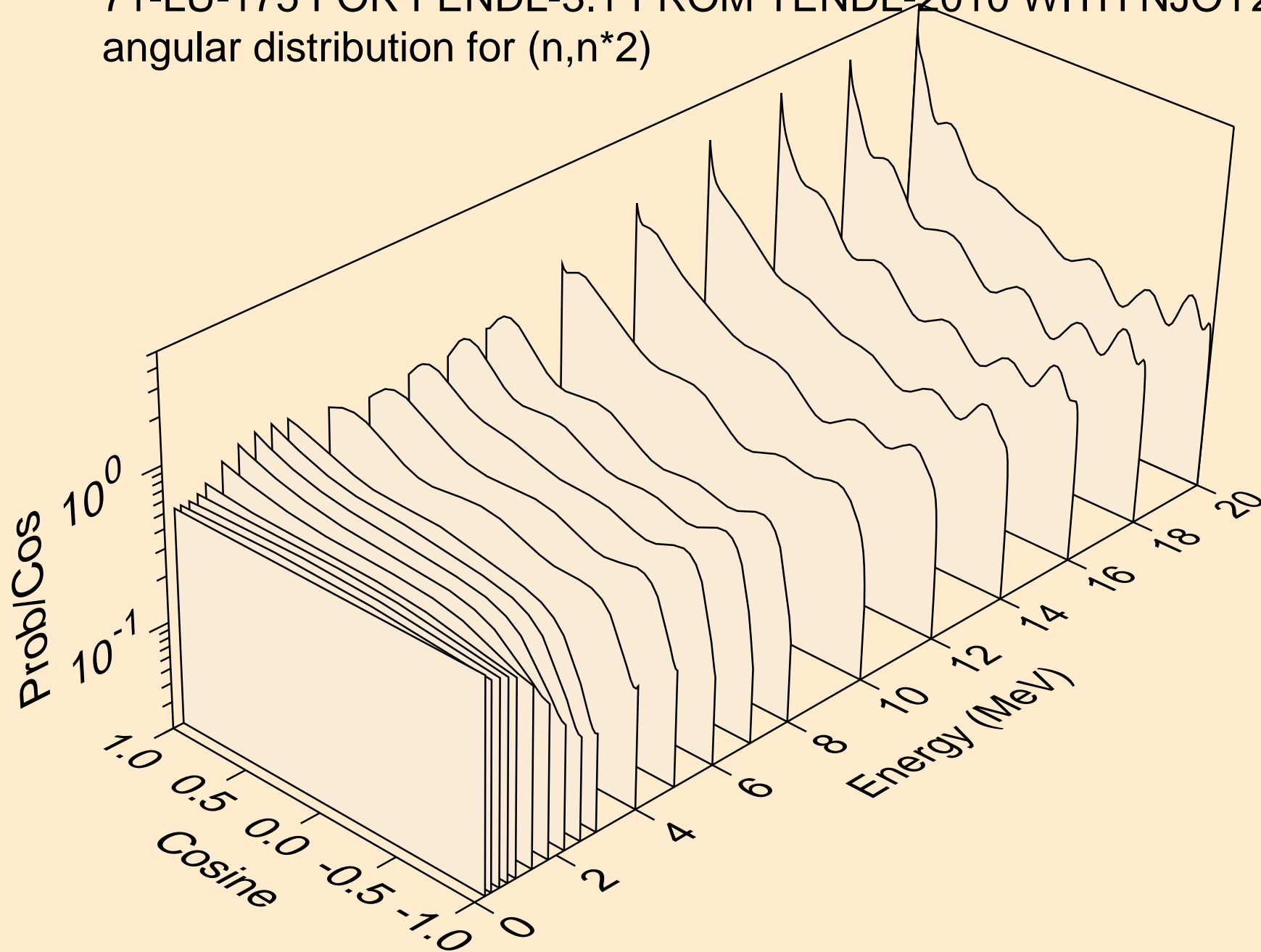- (n,xd)
- (n,xt)
- (n,xhe3)
- (n,p*c)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
angular distribution for elastic

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
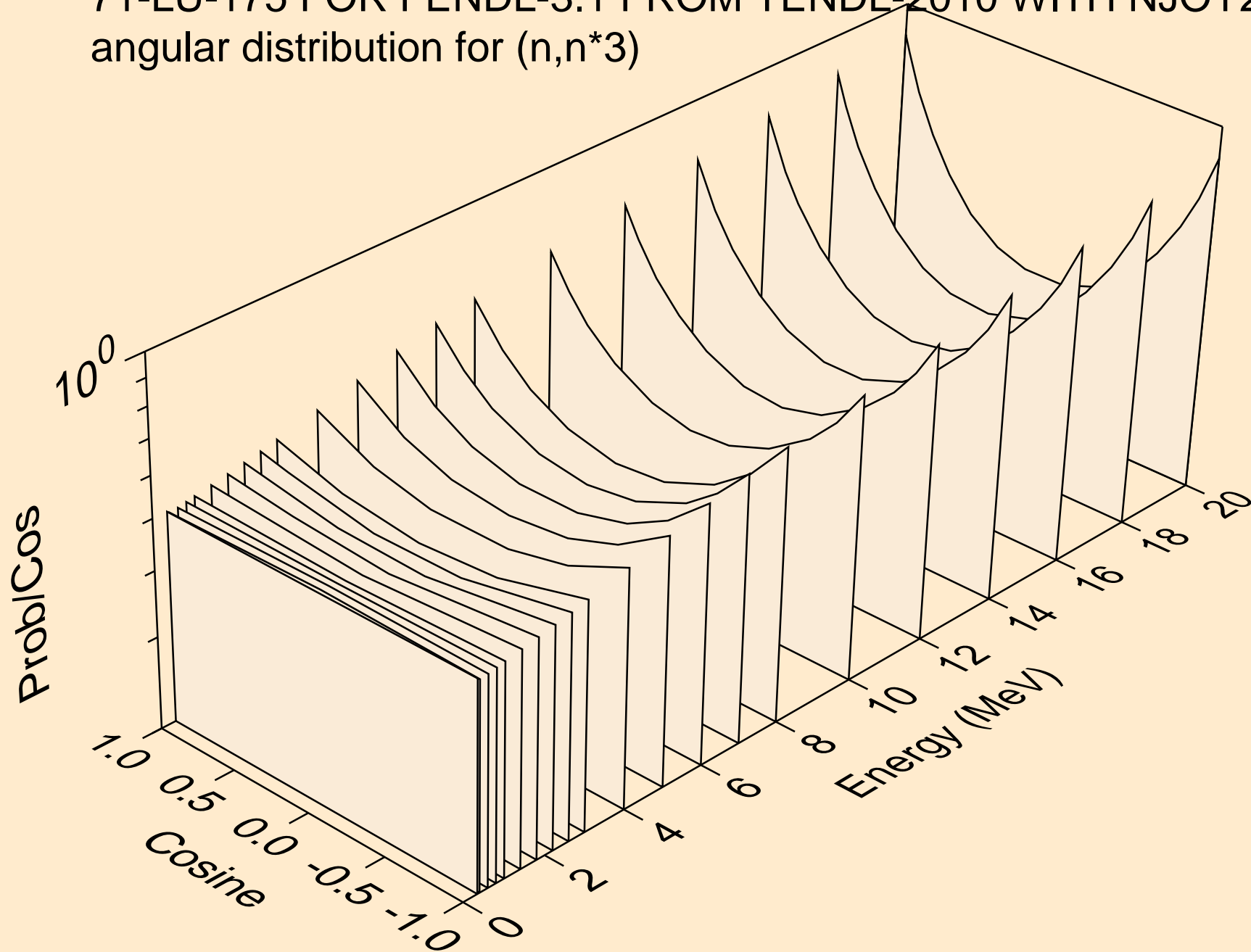angular distribution for elastic

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5

angular distribution for (n,n*1)
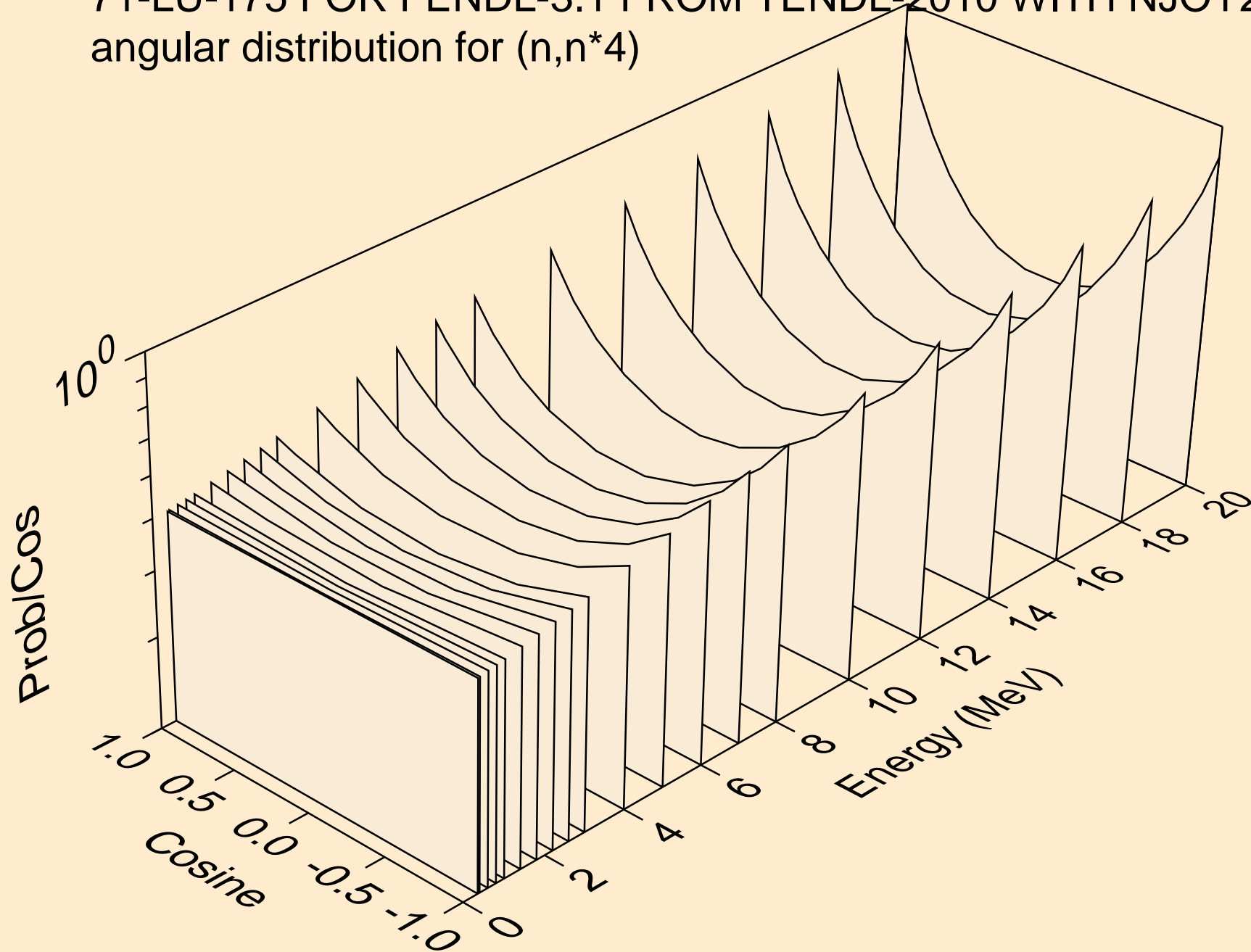
ProbICos

Cosine

Energy (MeV)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
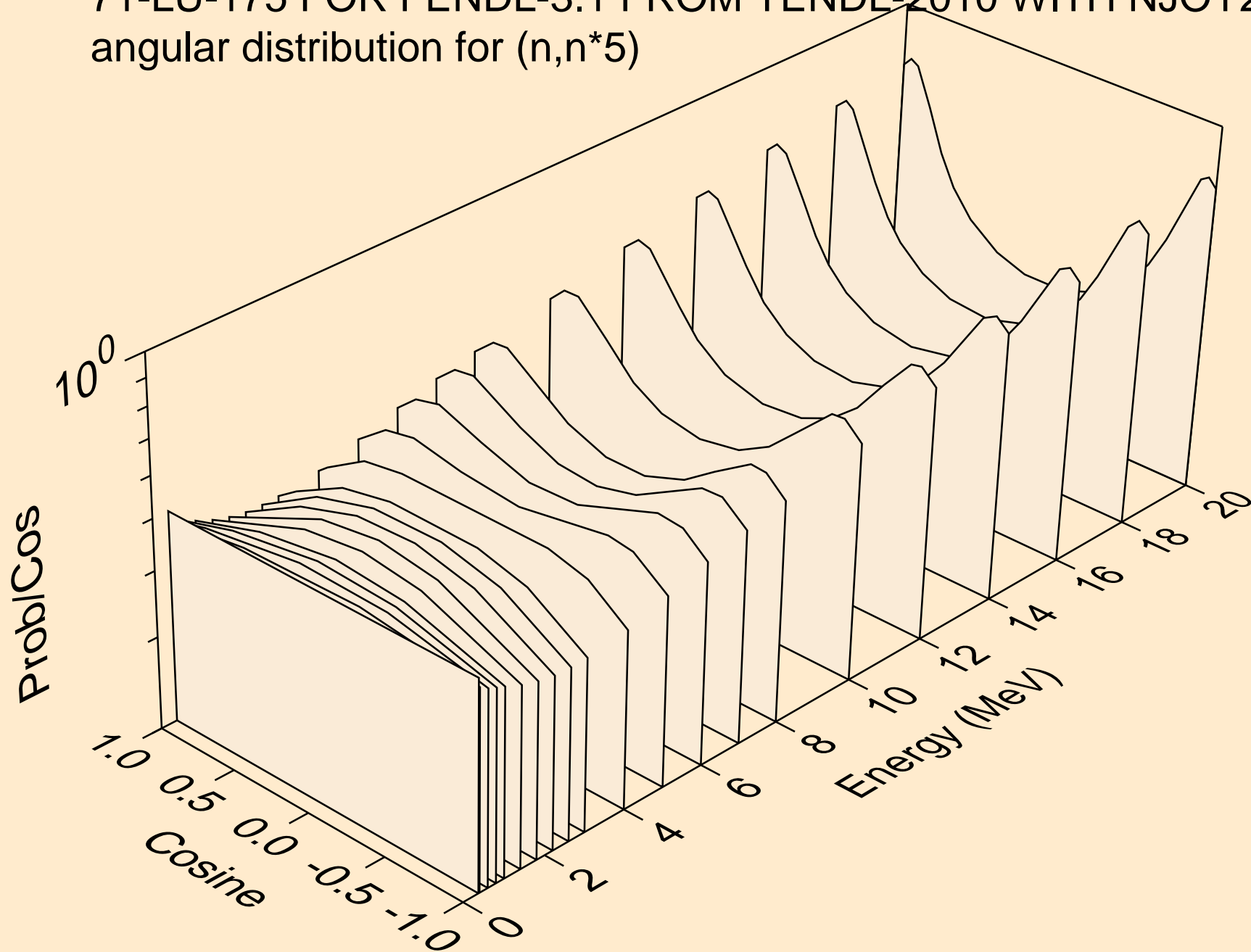
angular distribution for (n,n*2)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
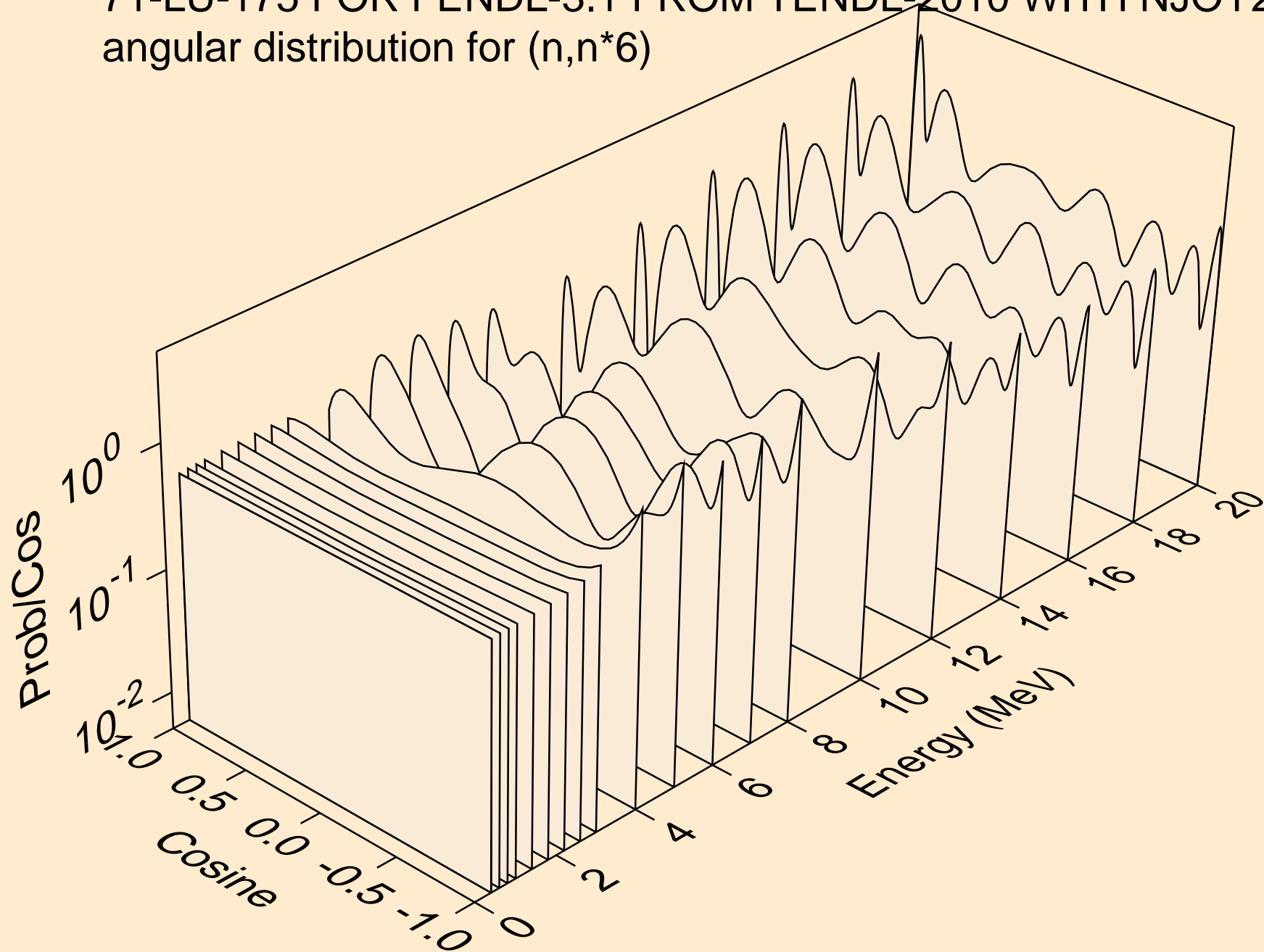
angular distribution for (n,n*3)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
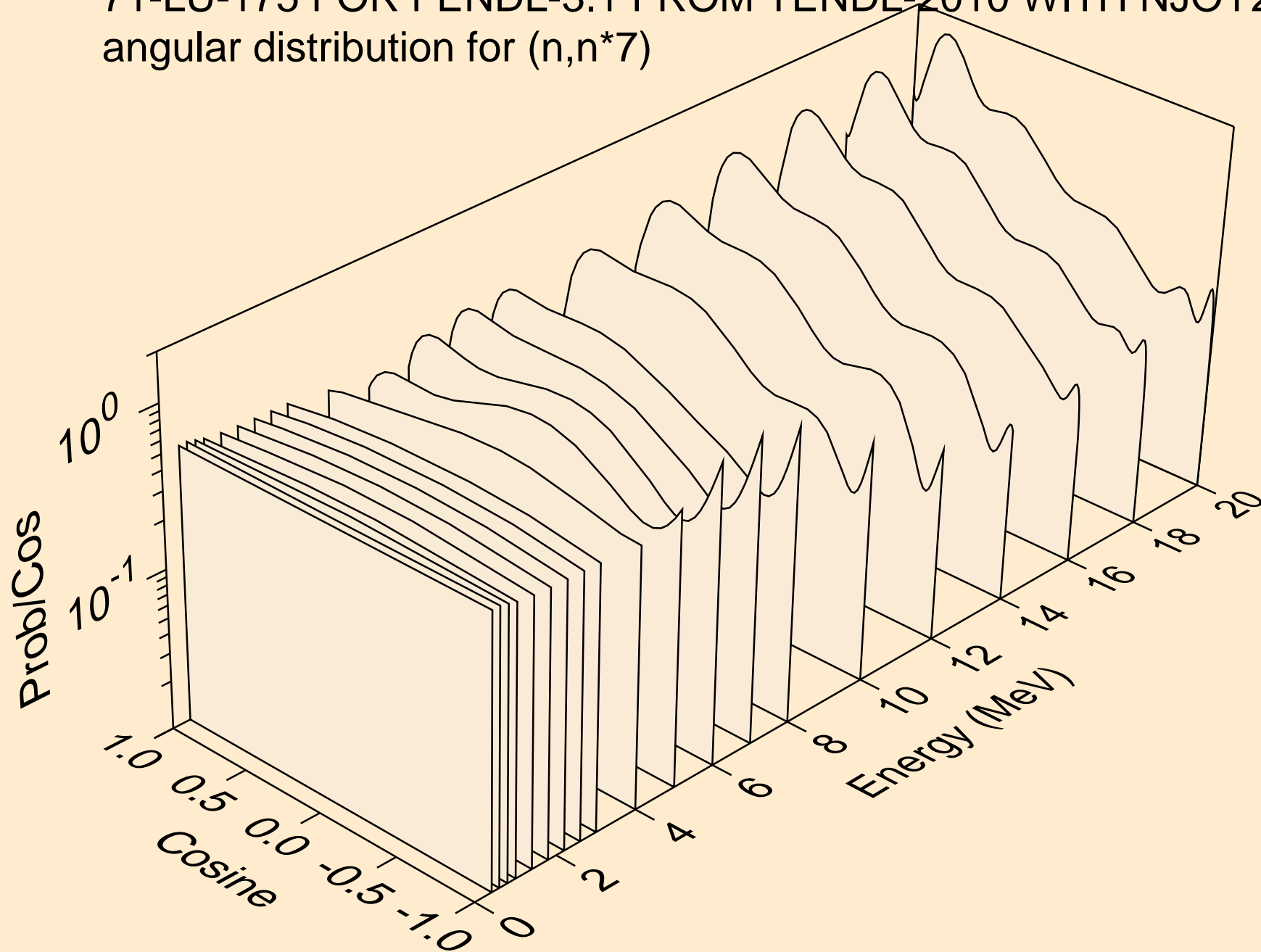
angular distribution for (n,n*4)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
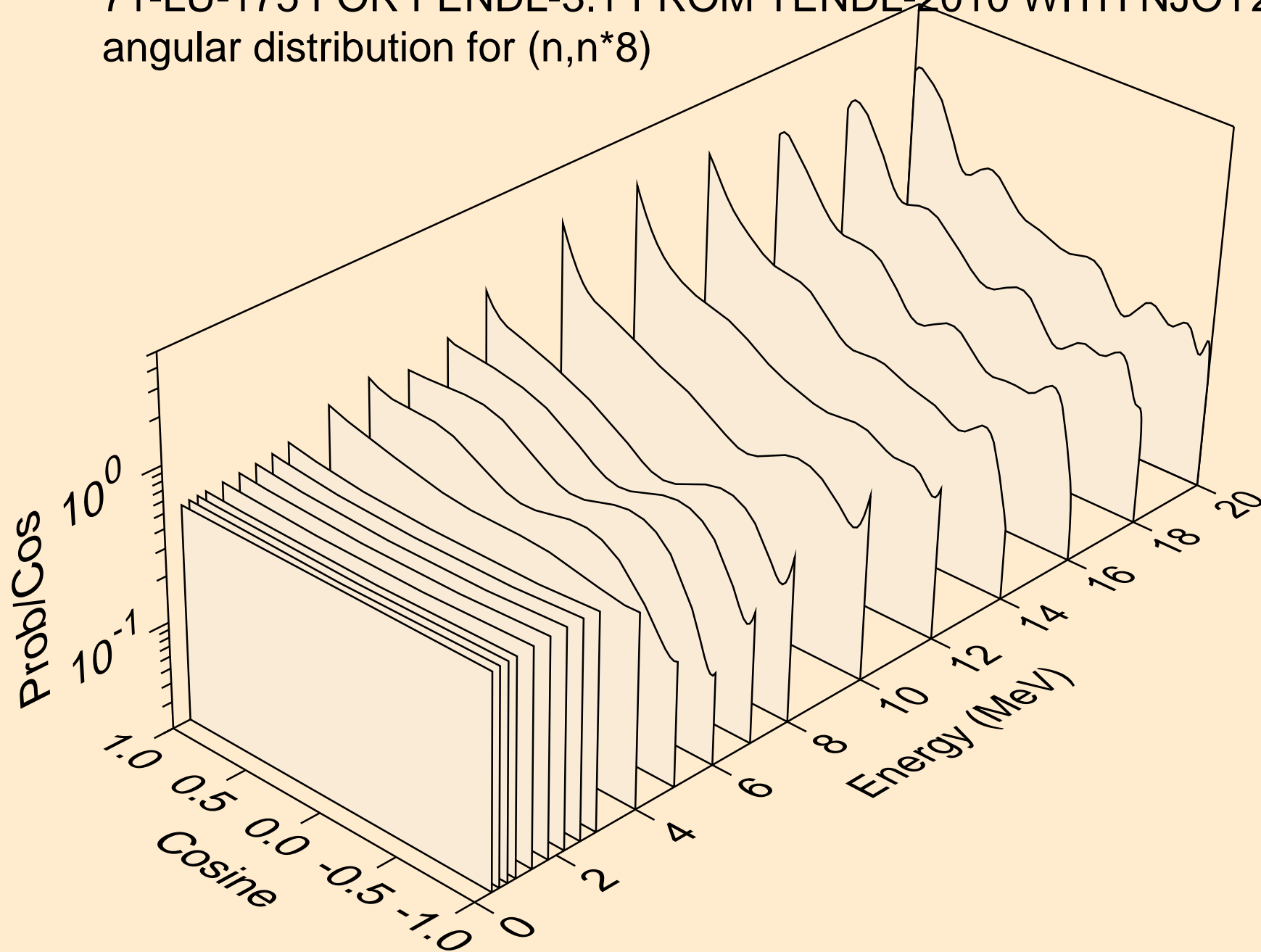
angular distribution for (n,n*5)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
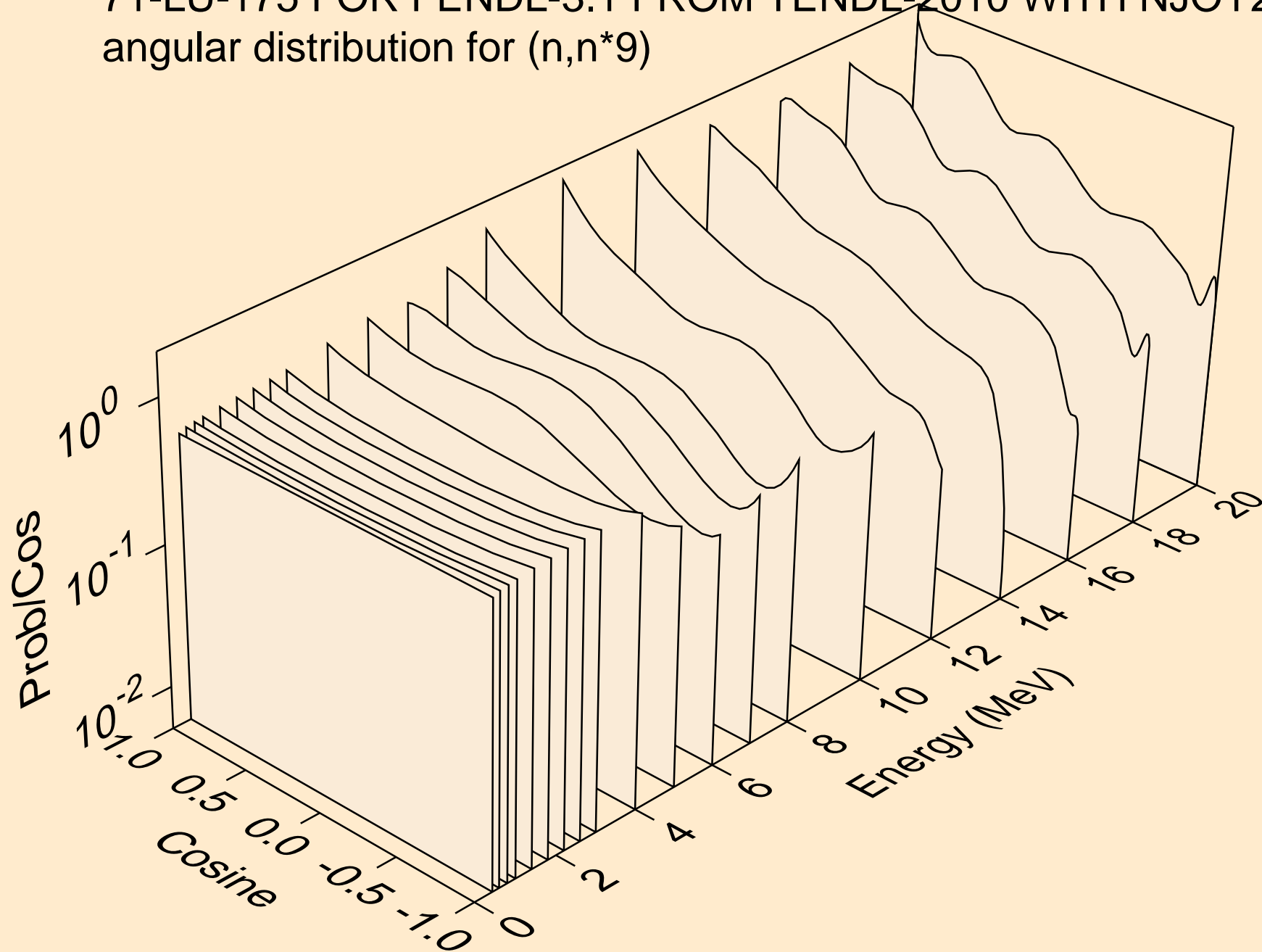angular distribution for (n,n*6)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
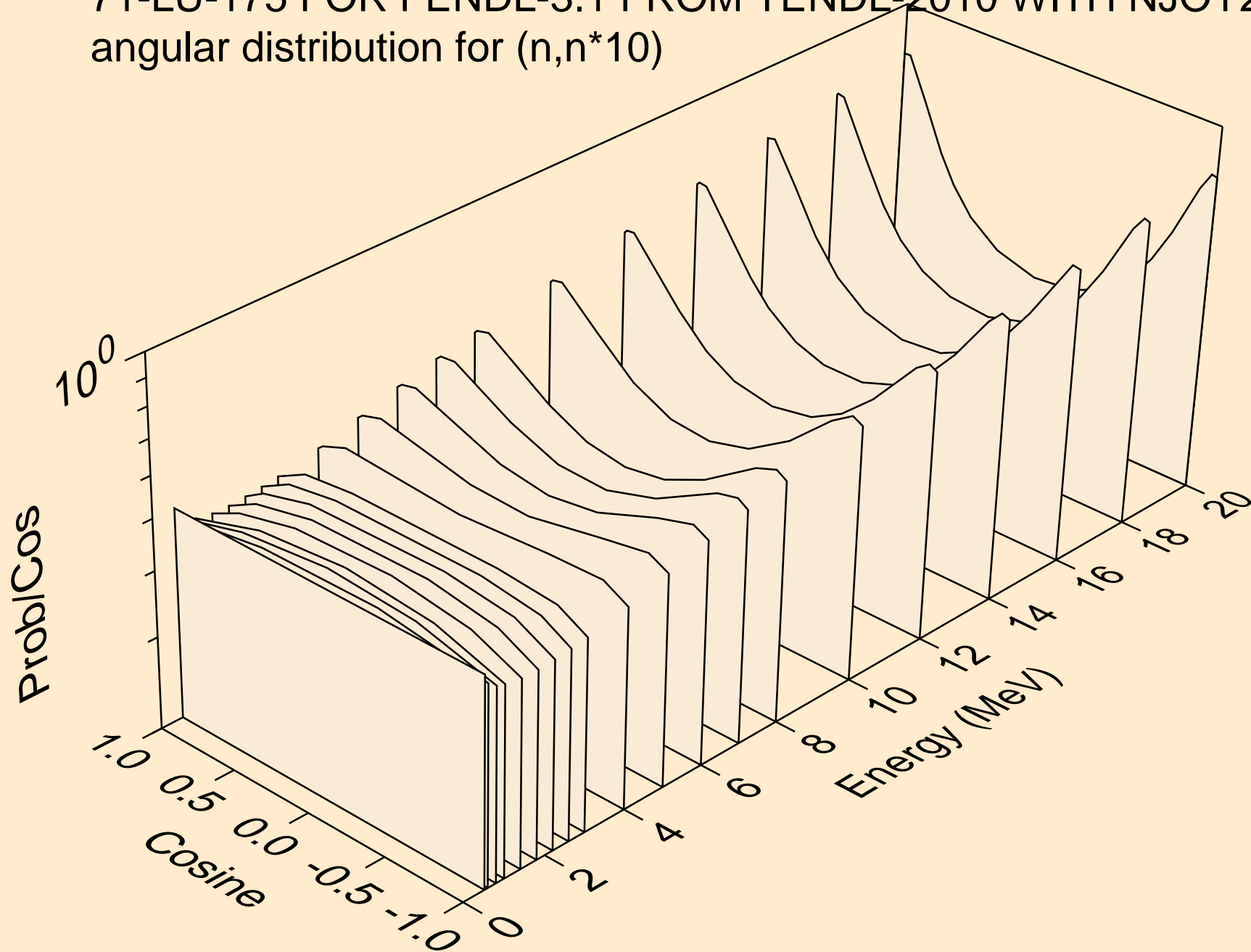
angular distribution for (n,n*7)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
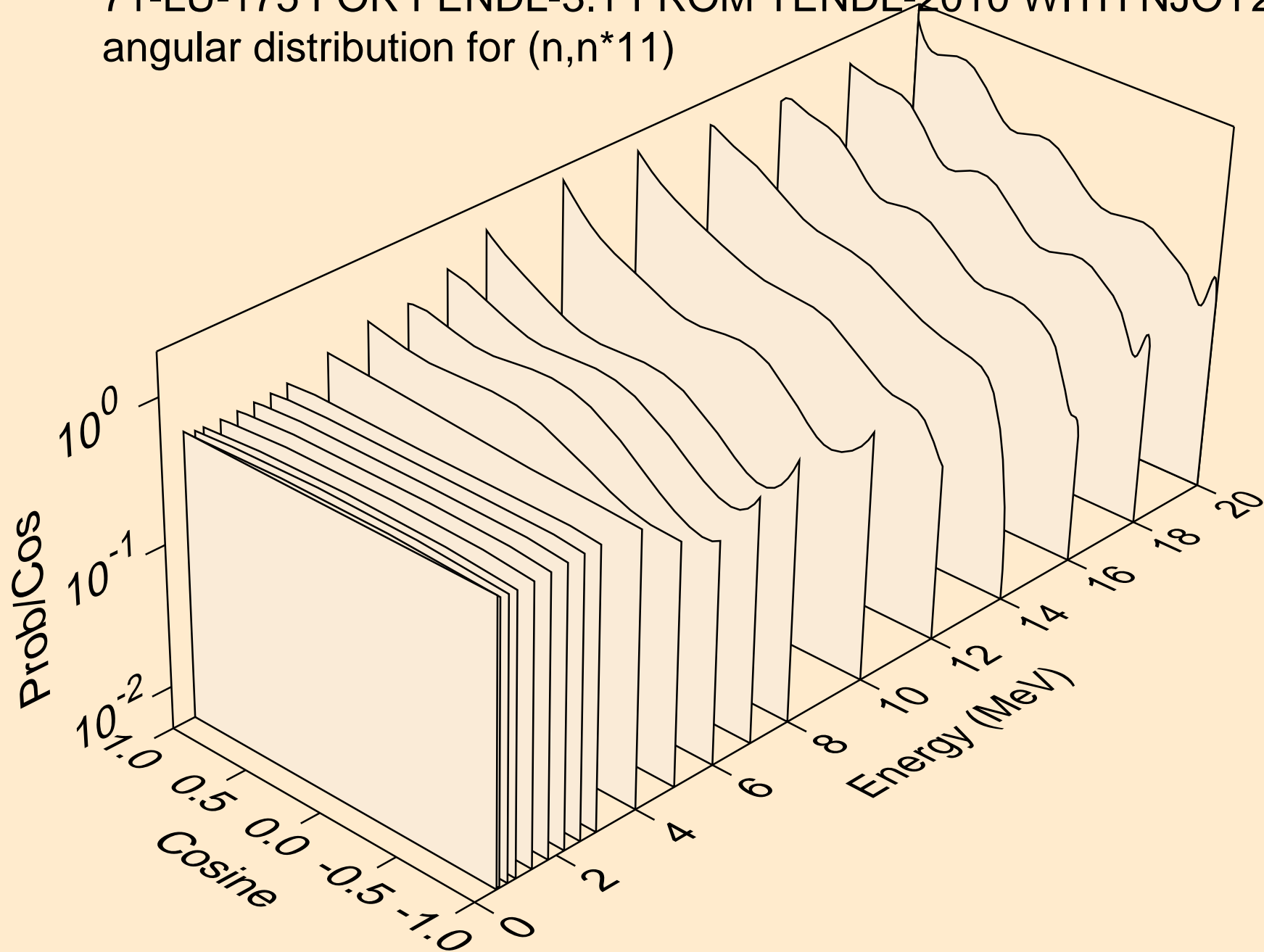
angular distribution for (n,n*8)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
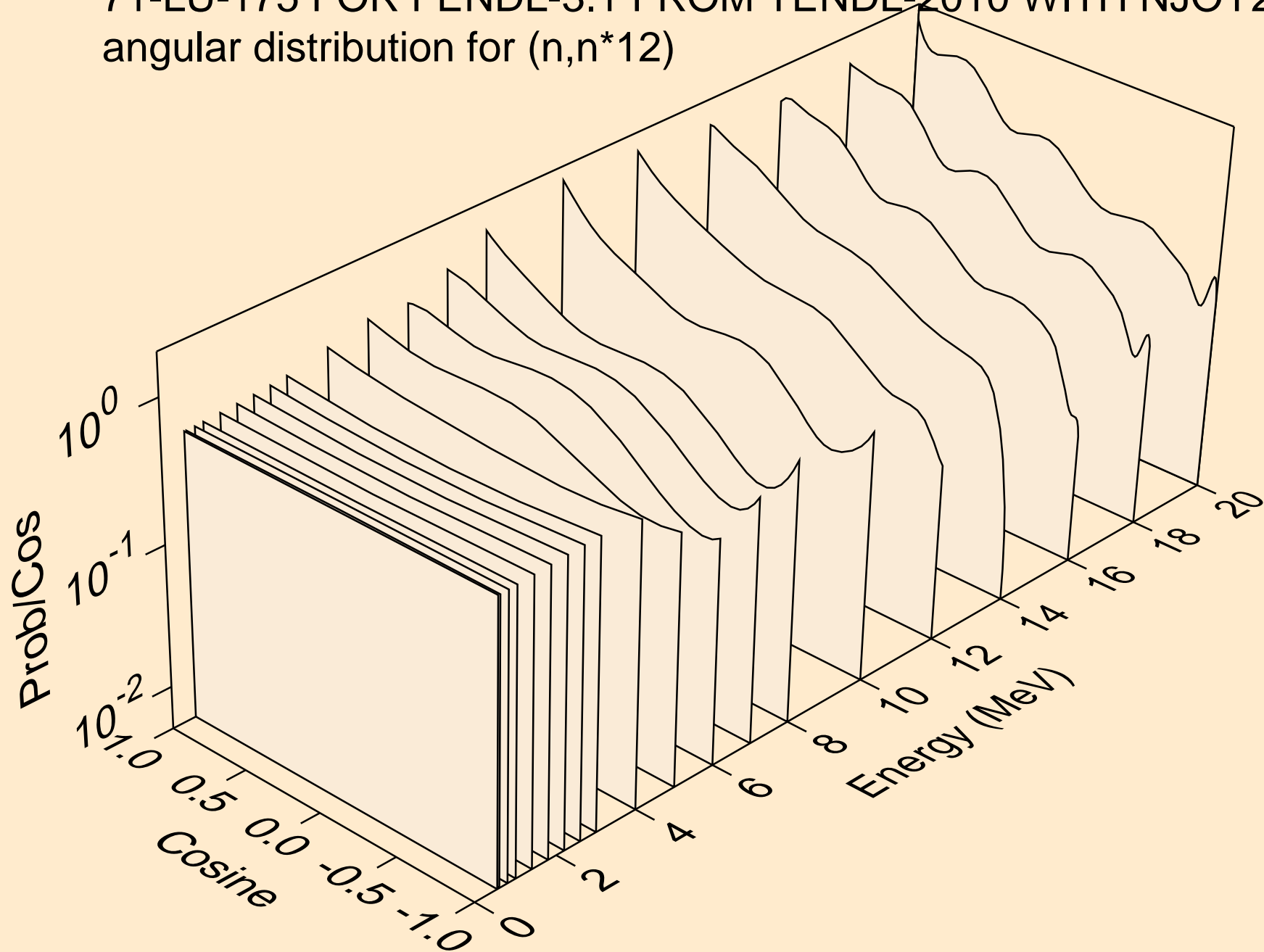
angular distribution for (n,n*9)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
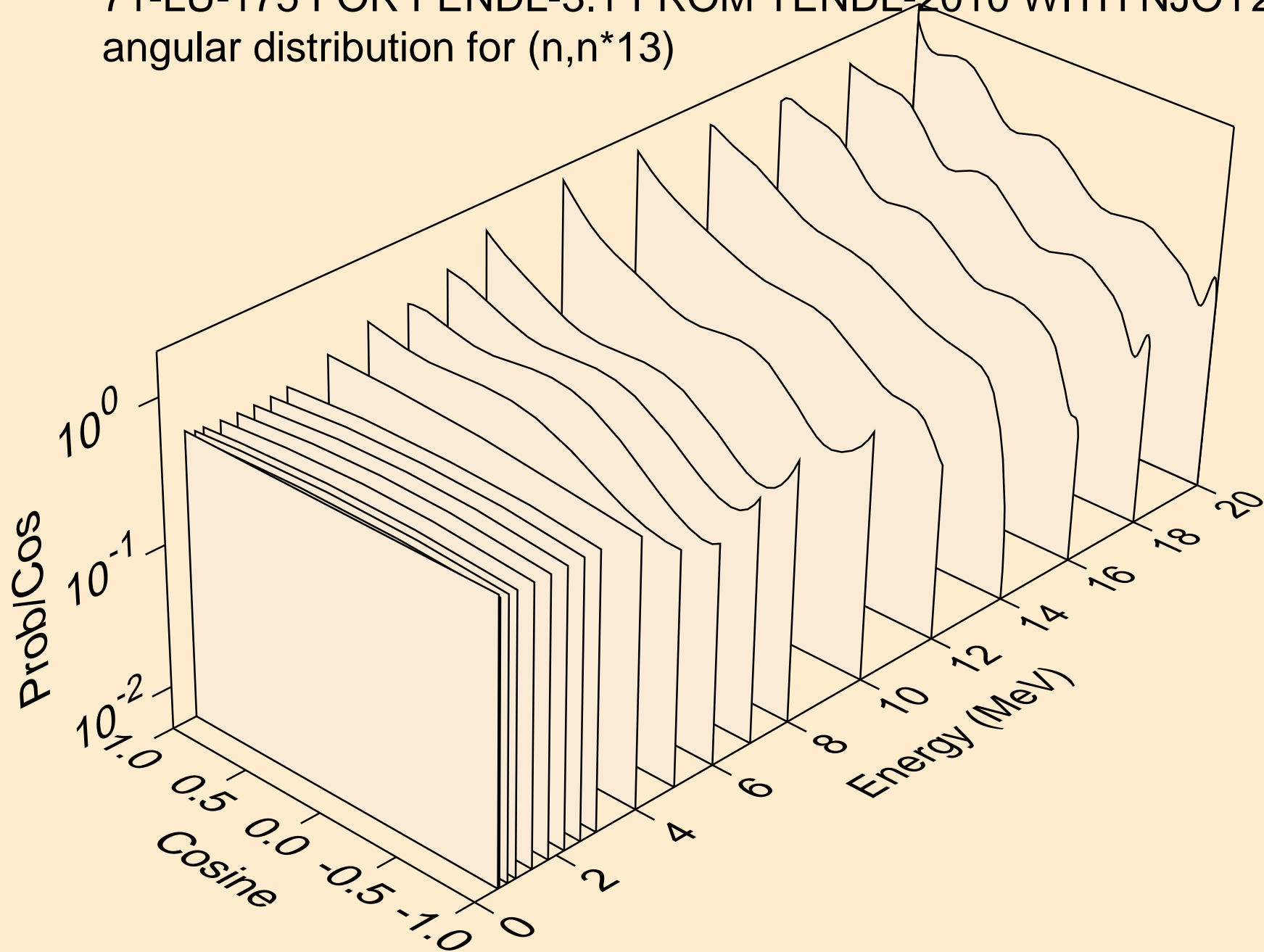
angular distribution for (n,n*10)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
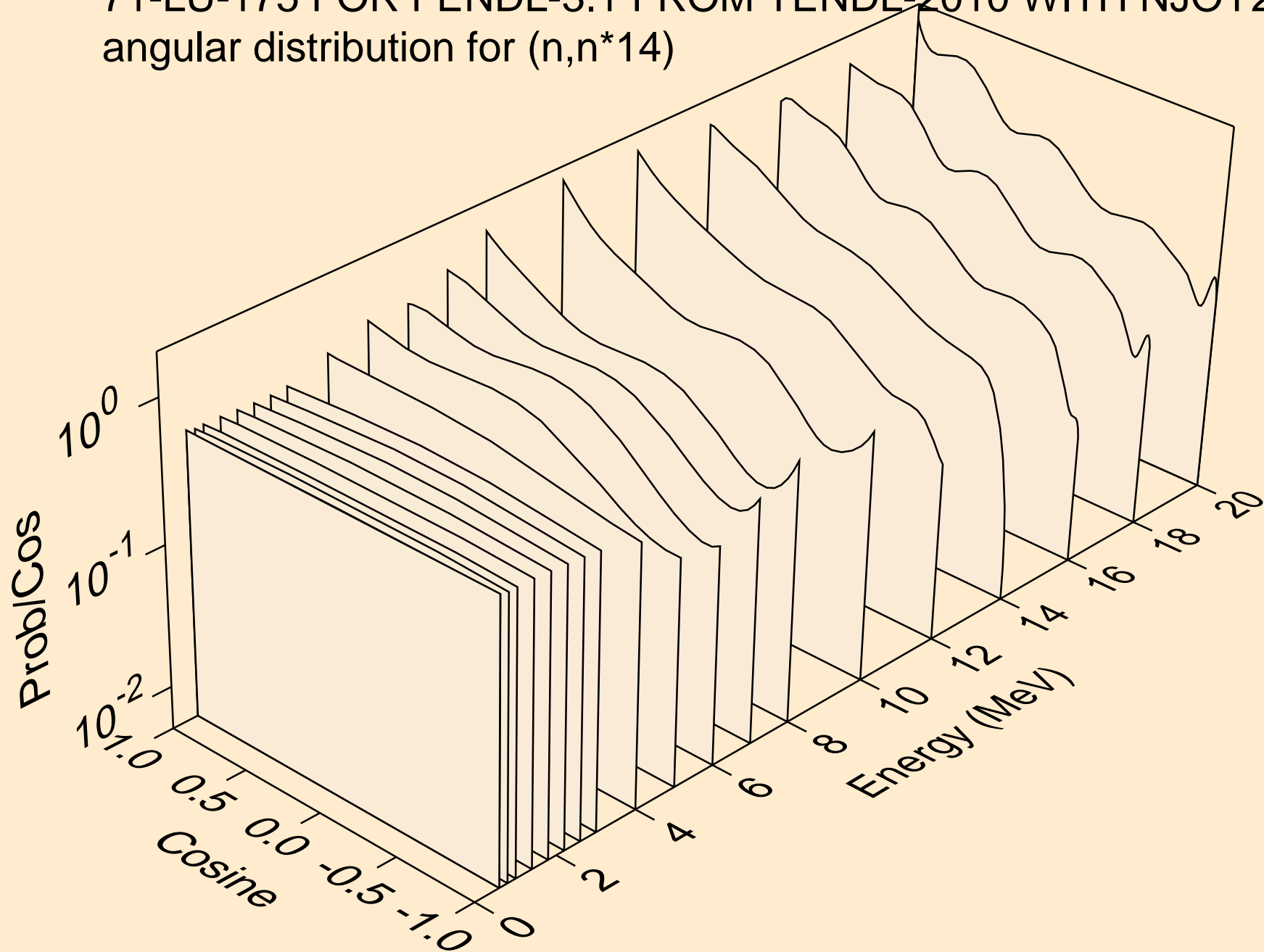
angular distribution for (n,n*11)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
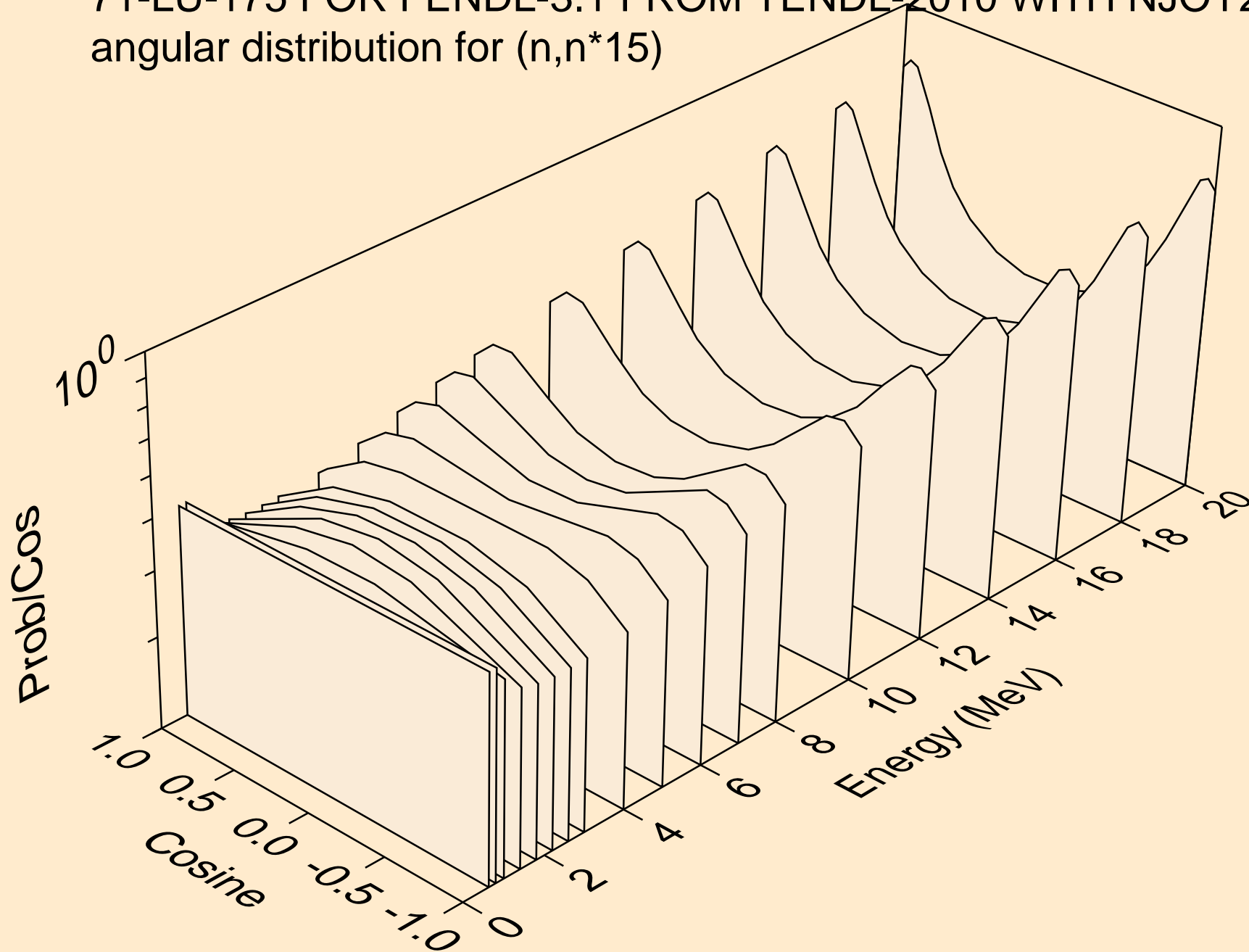
angular distribution for (n,n*12)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
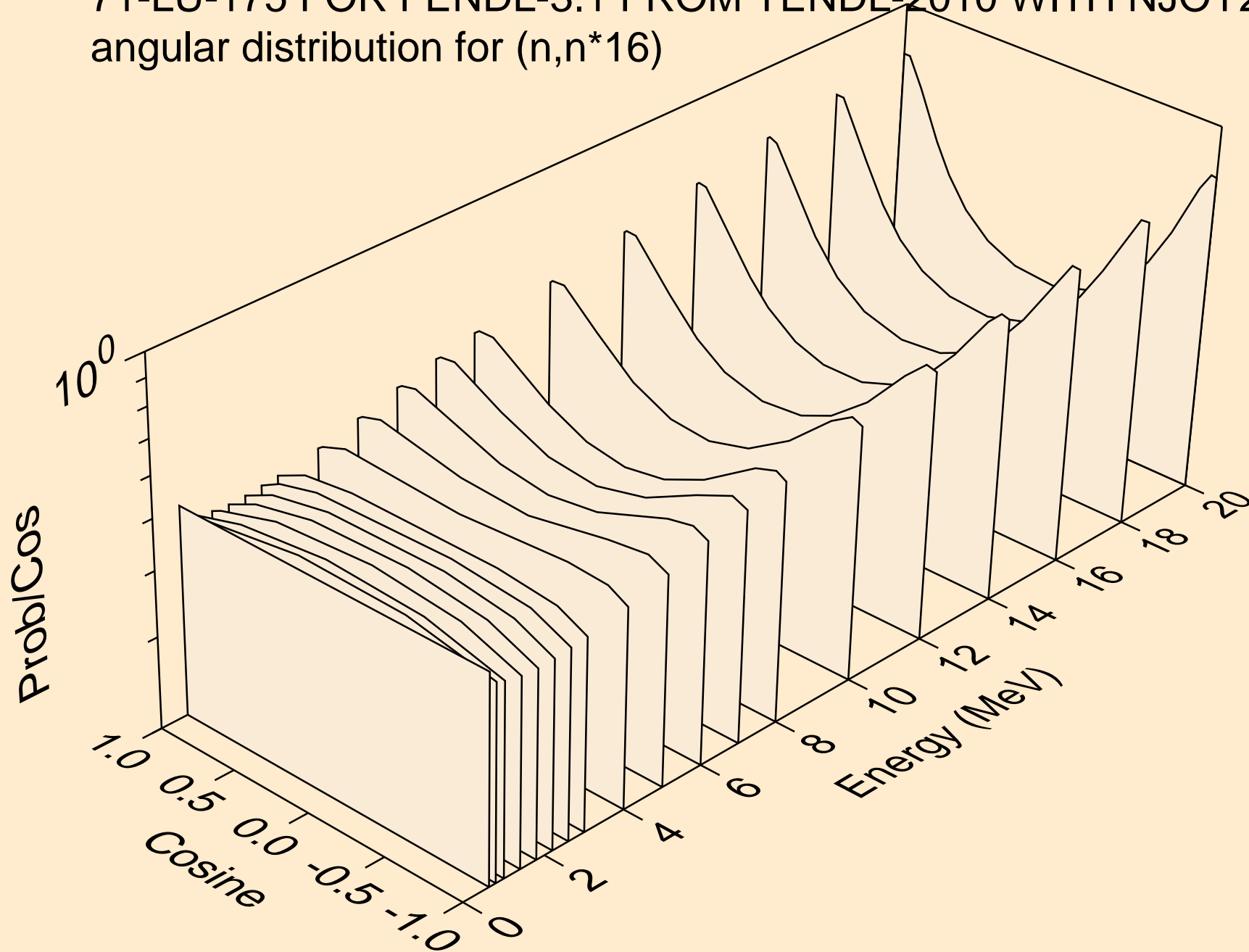
angular distribution for (n,n*13)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
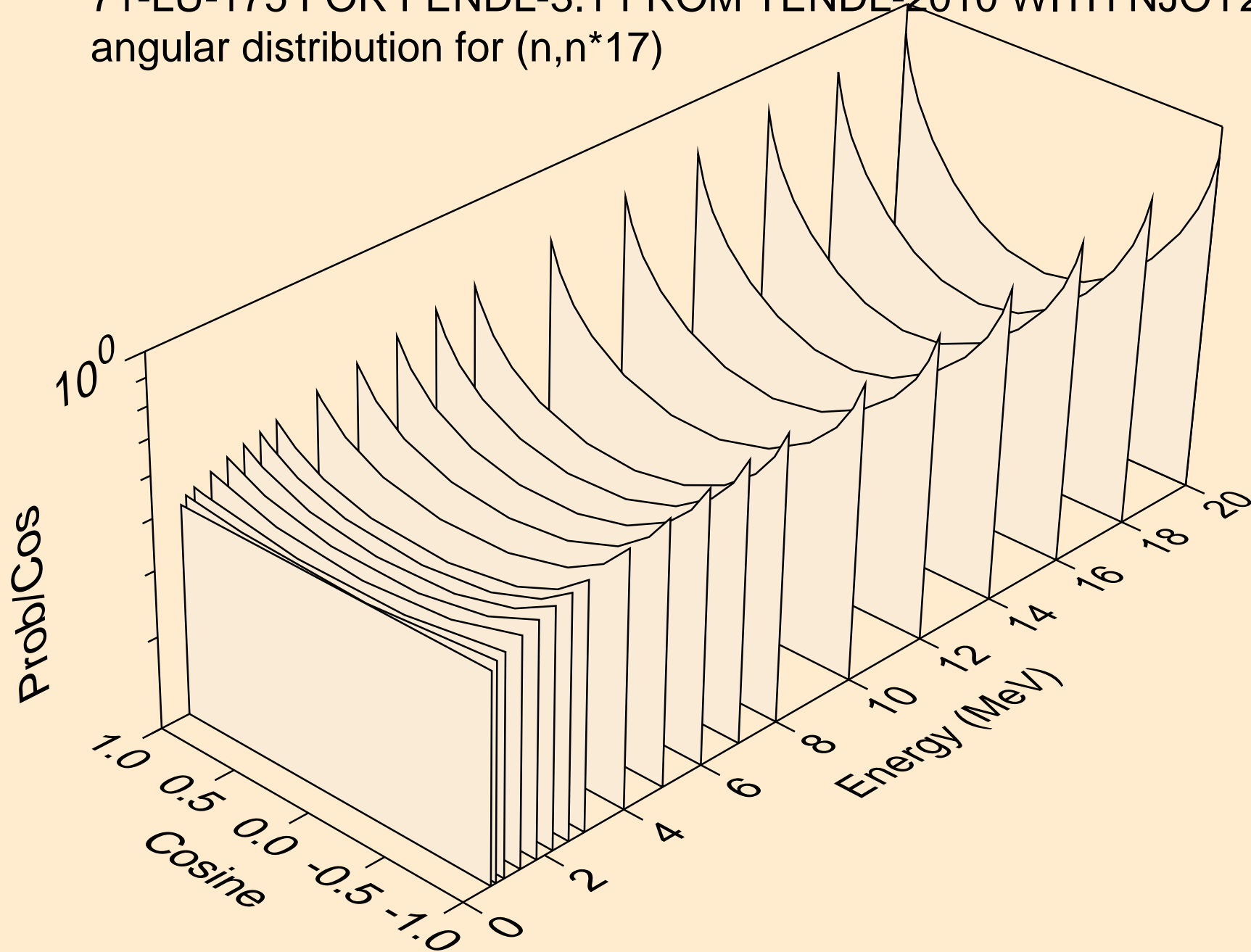
angular distribution for (n,n*14)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
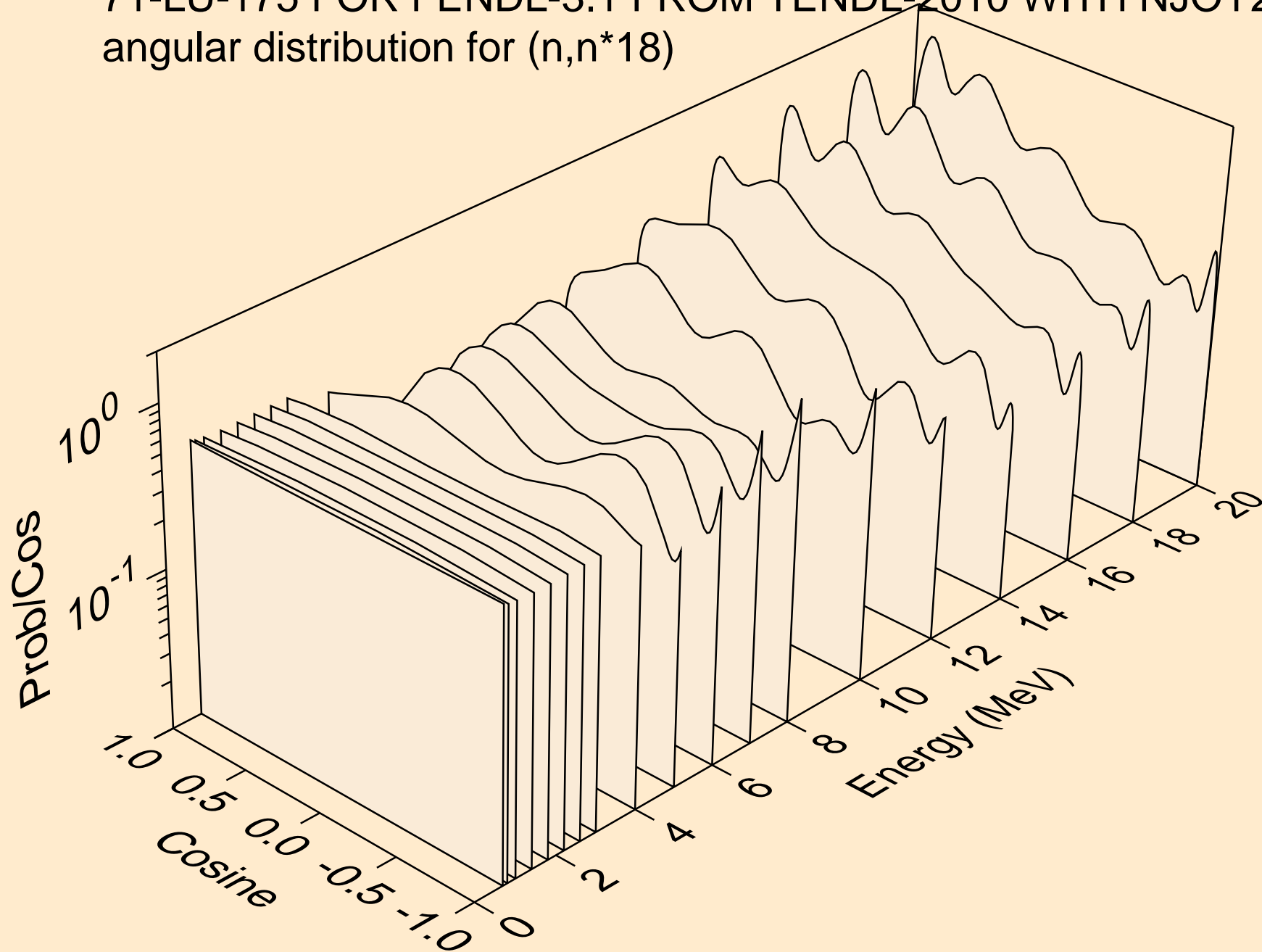angular distribution for (n,n*15)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
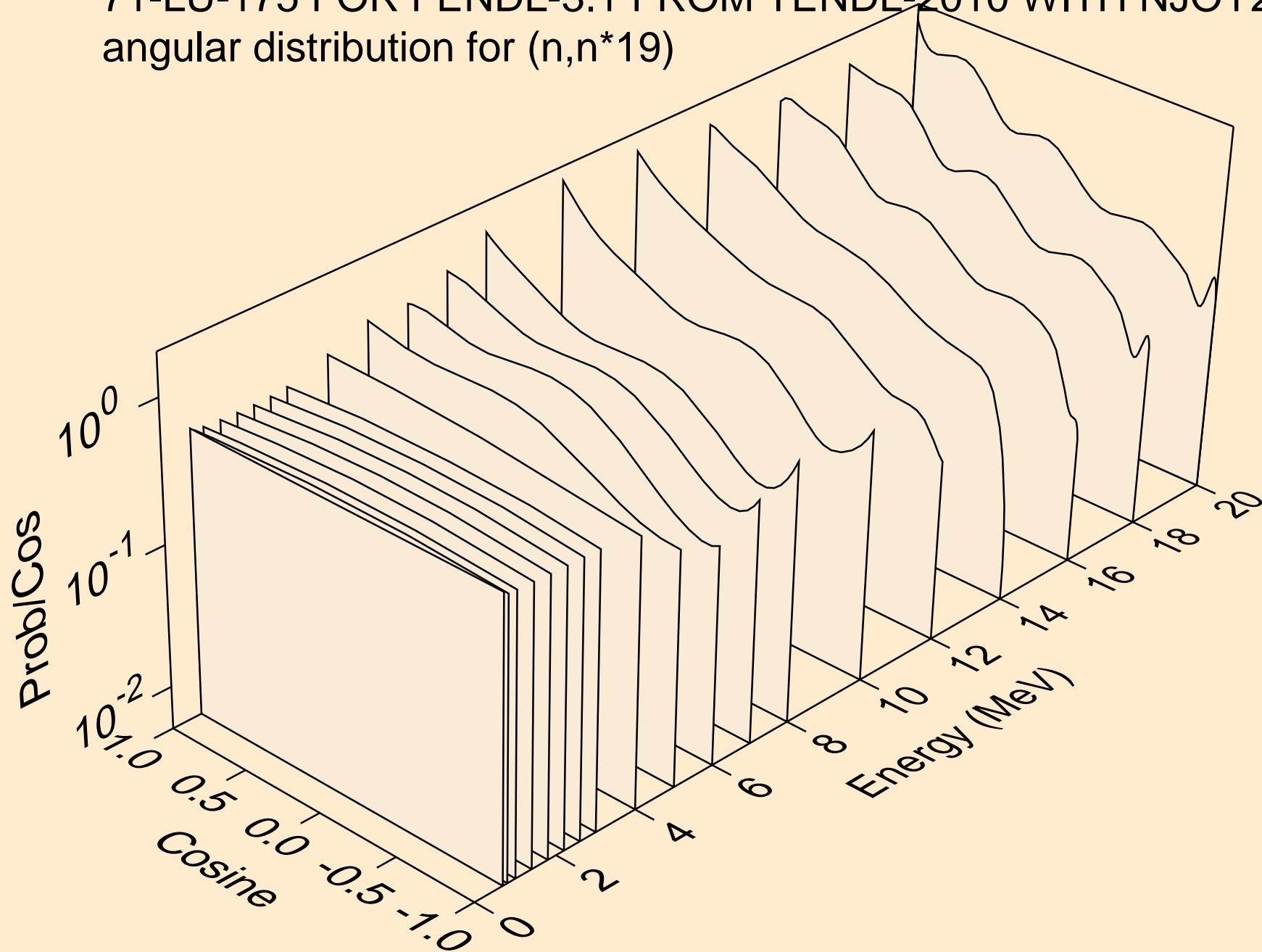angular distribution for (n,n*16)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
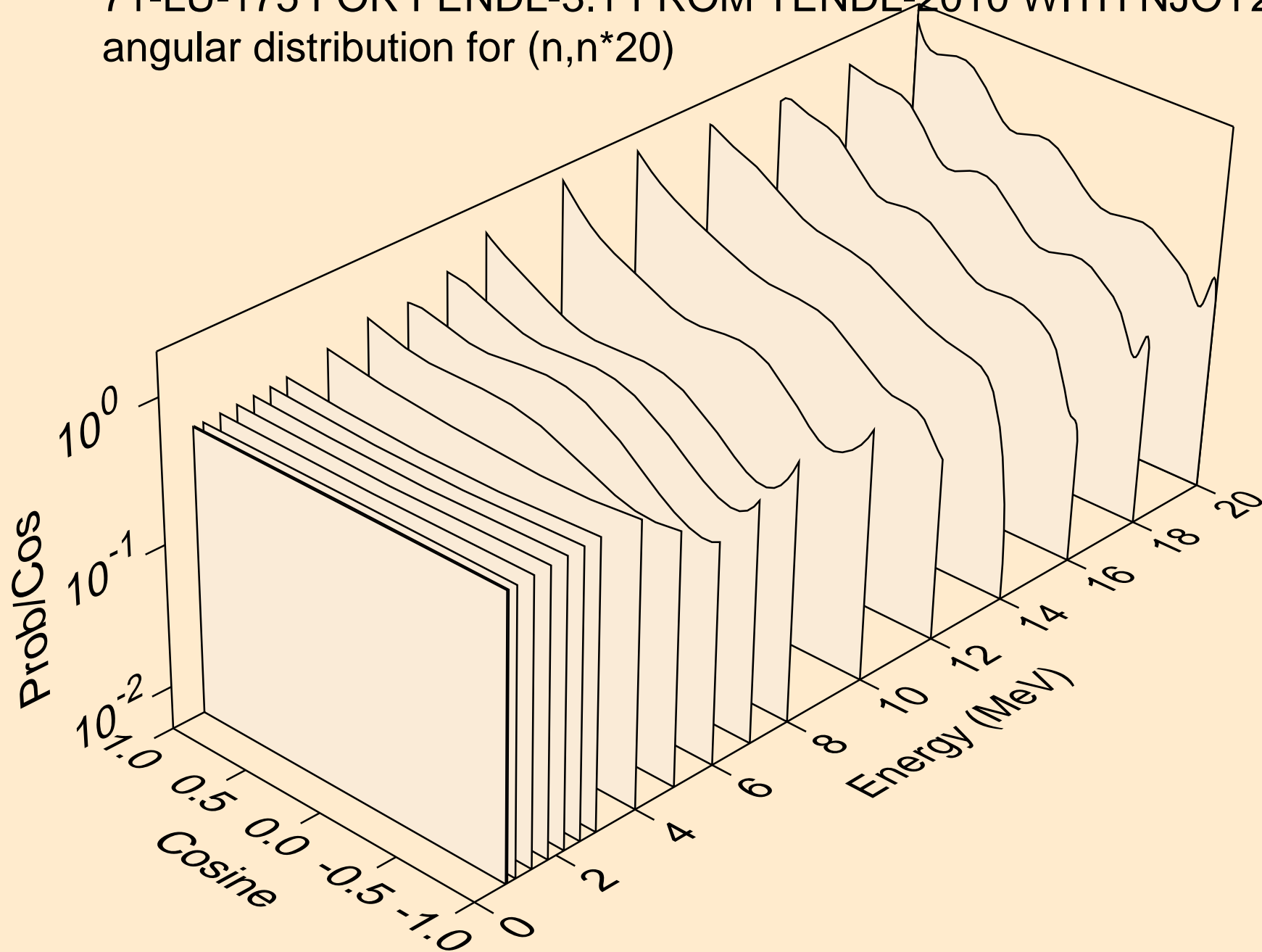angular distribution for (n,n*17)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
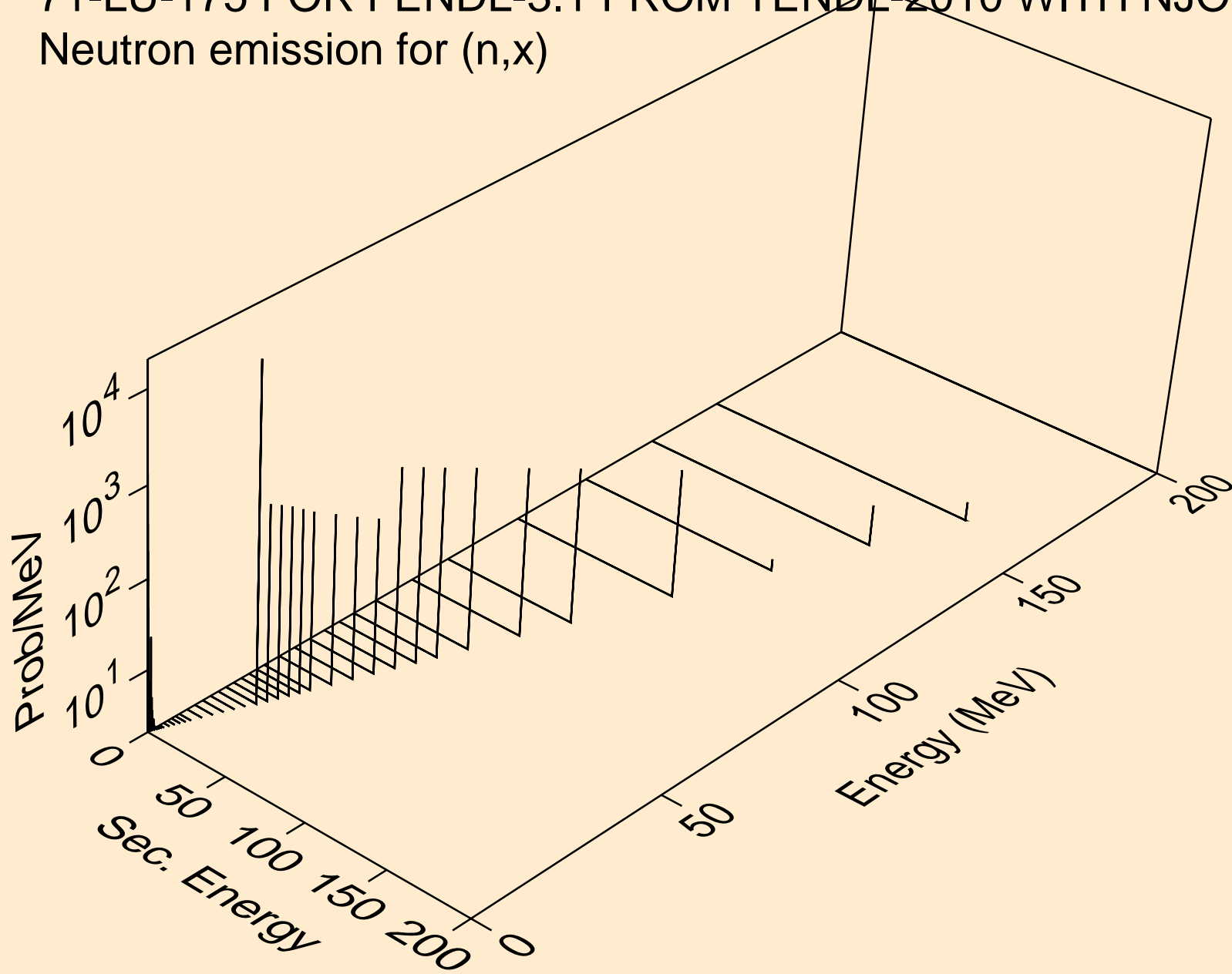
angular distribution for (n,n*18)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
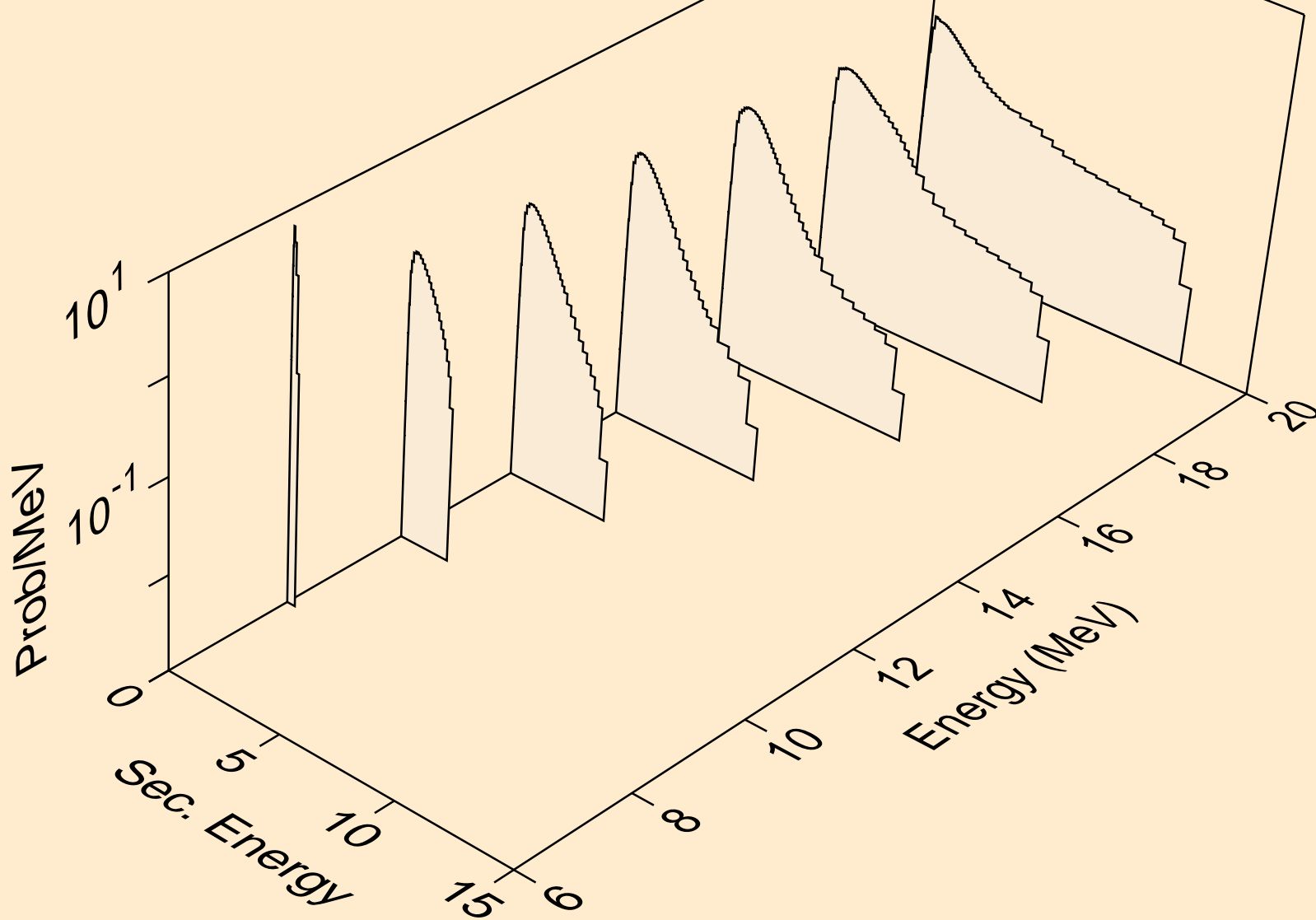
angular distribution for (n,n*19)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5

angular distribution for (n,n*20)
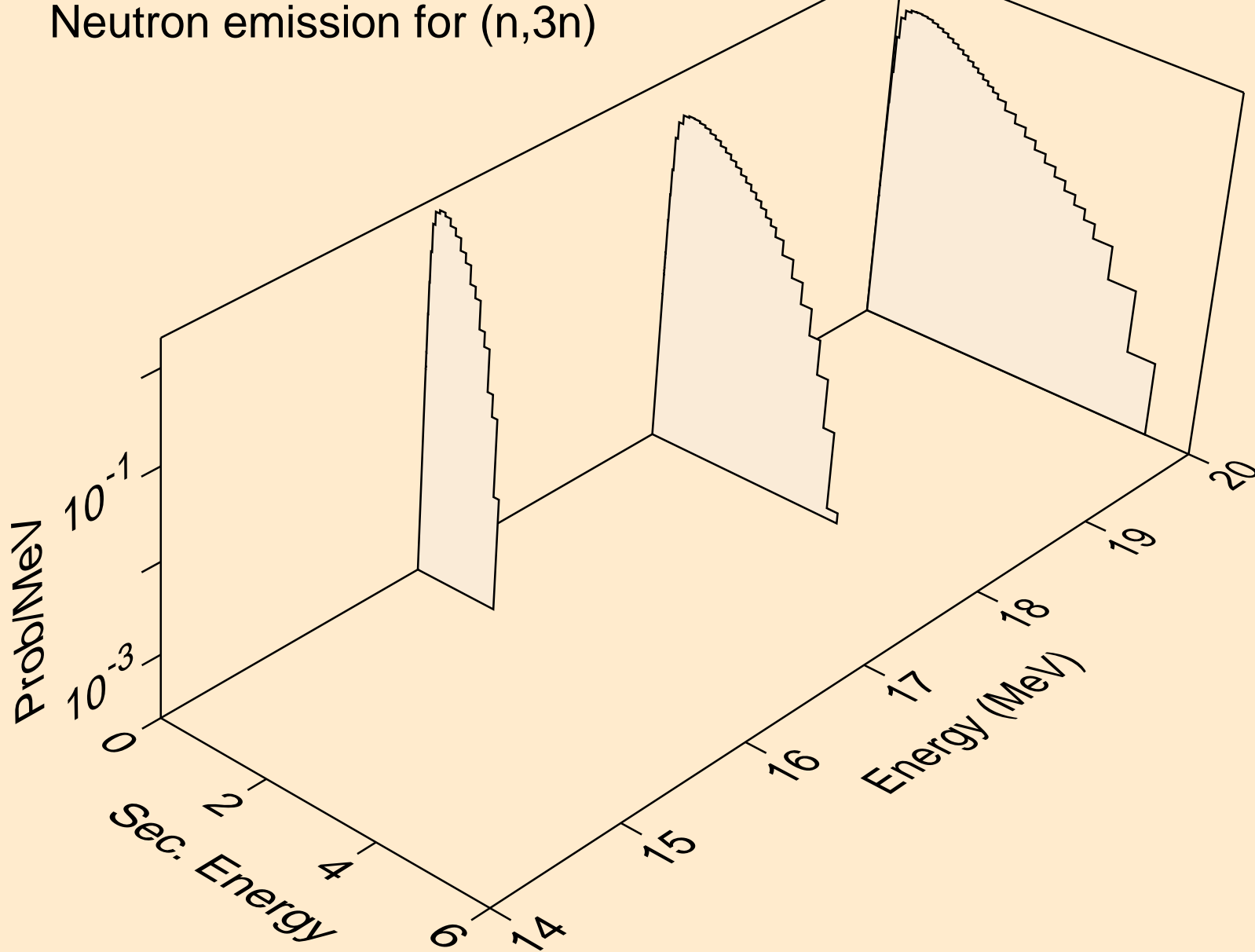
ProbICos

Cosine

Energy (MeV)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
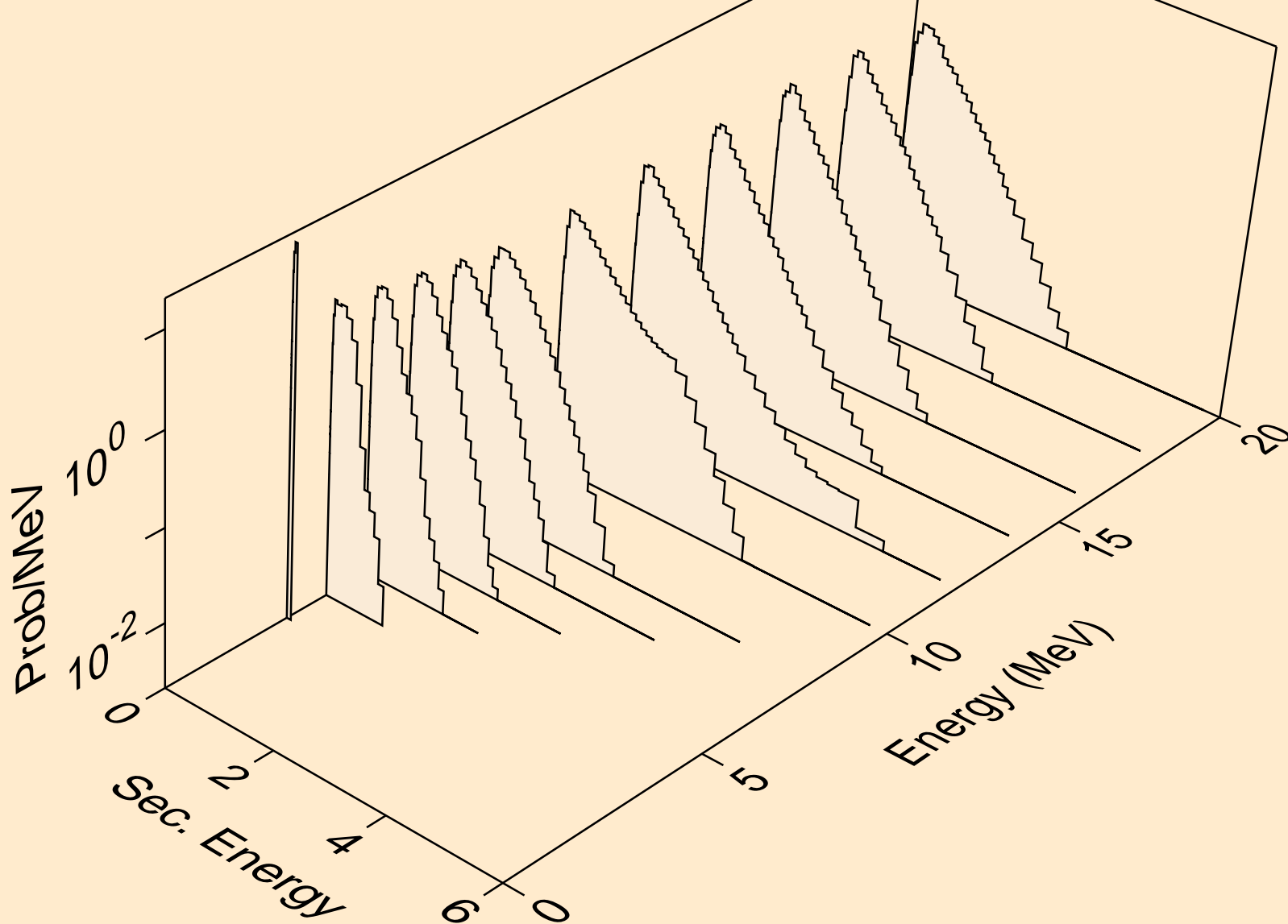Neutron emission for (n,x)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
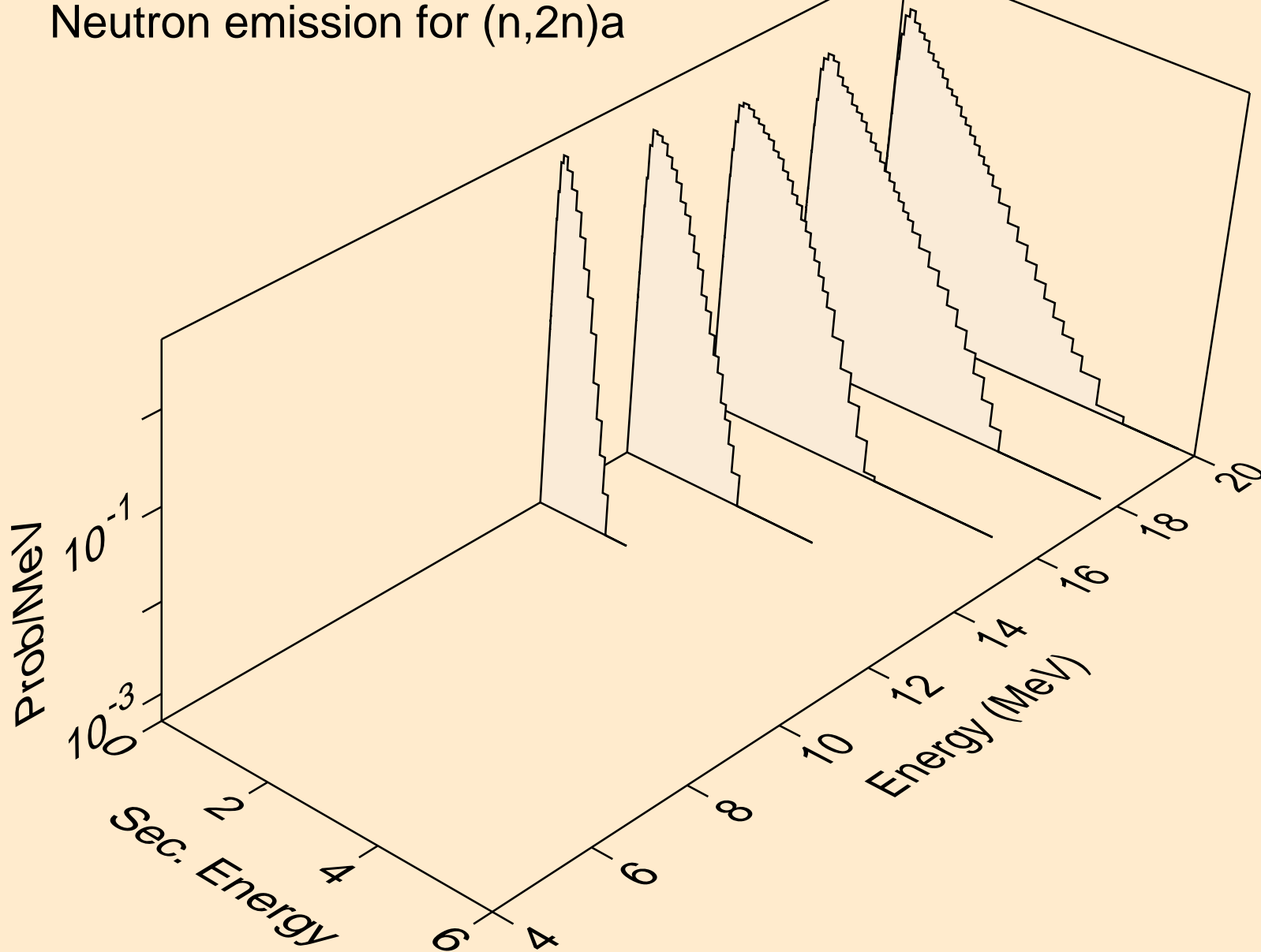
Neutron emission for (n,2n)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
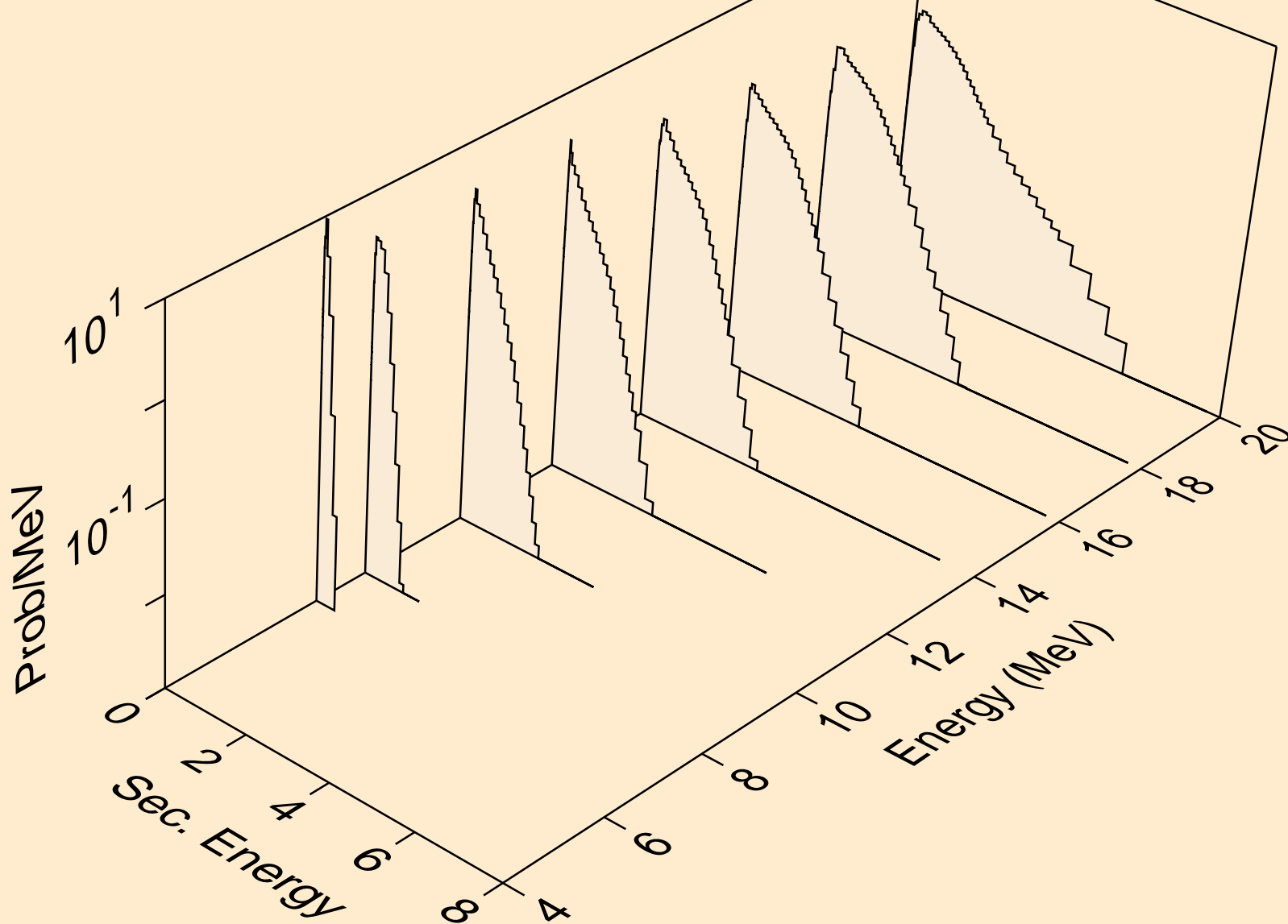
Neutron emission for (n,3n)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
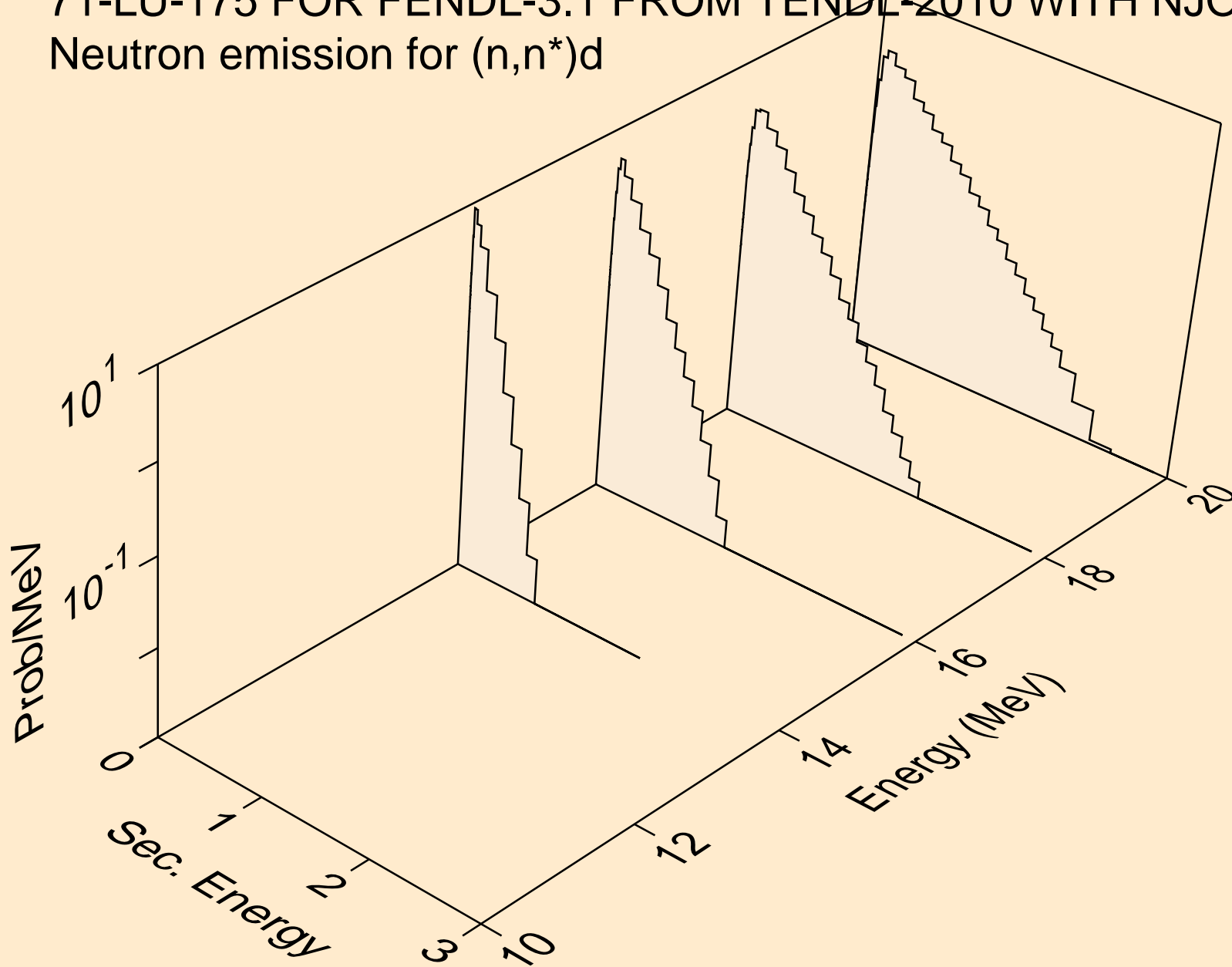
Neutron emission for (n,n*)a

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
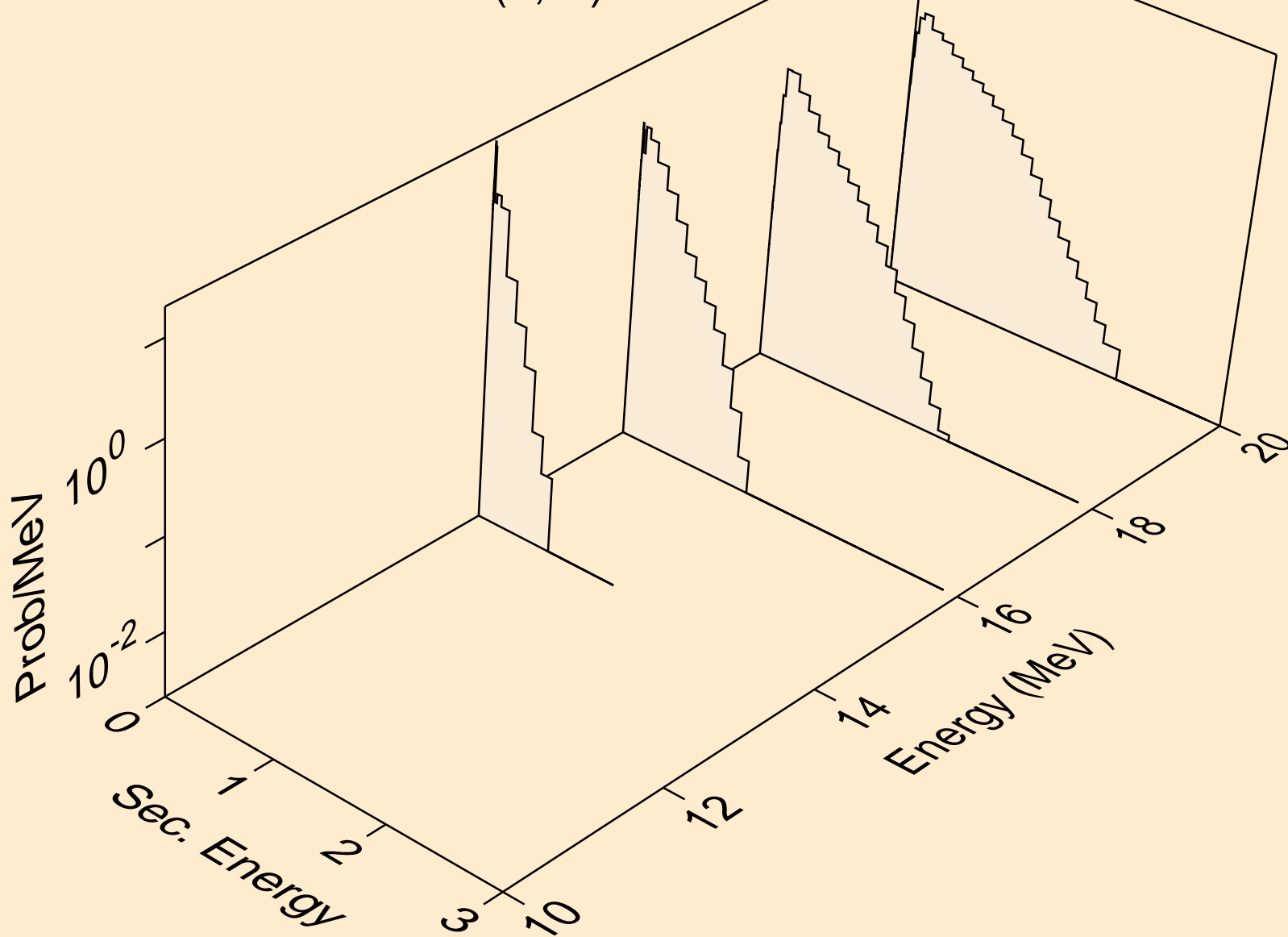
Neutron emission for (n,2n)a

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
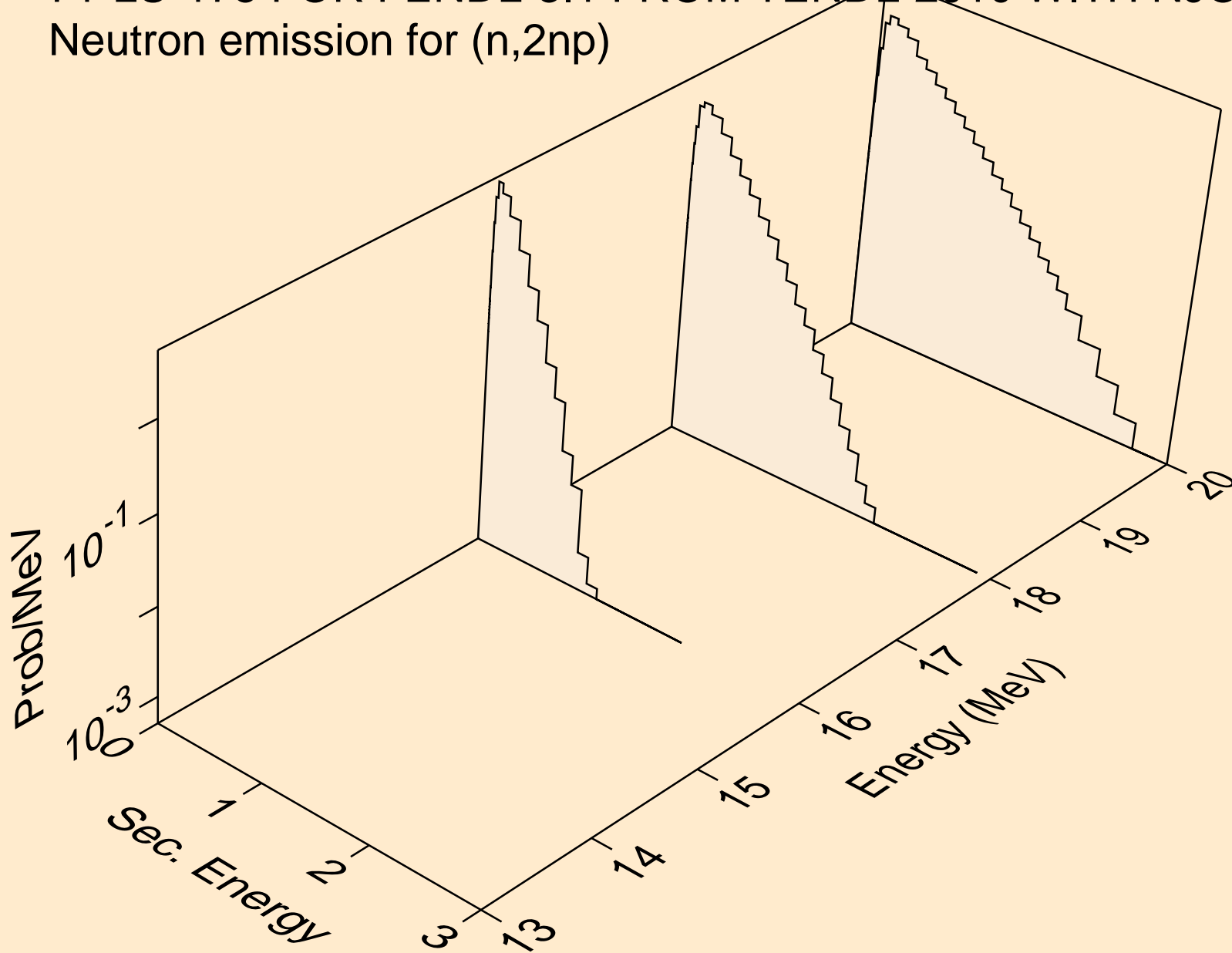Neutron emission for (n,n*)p

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
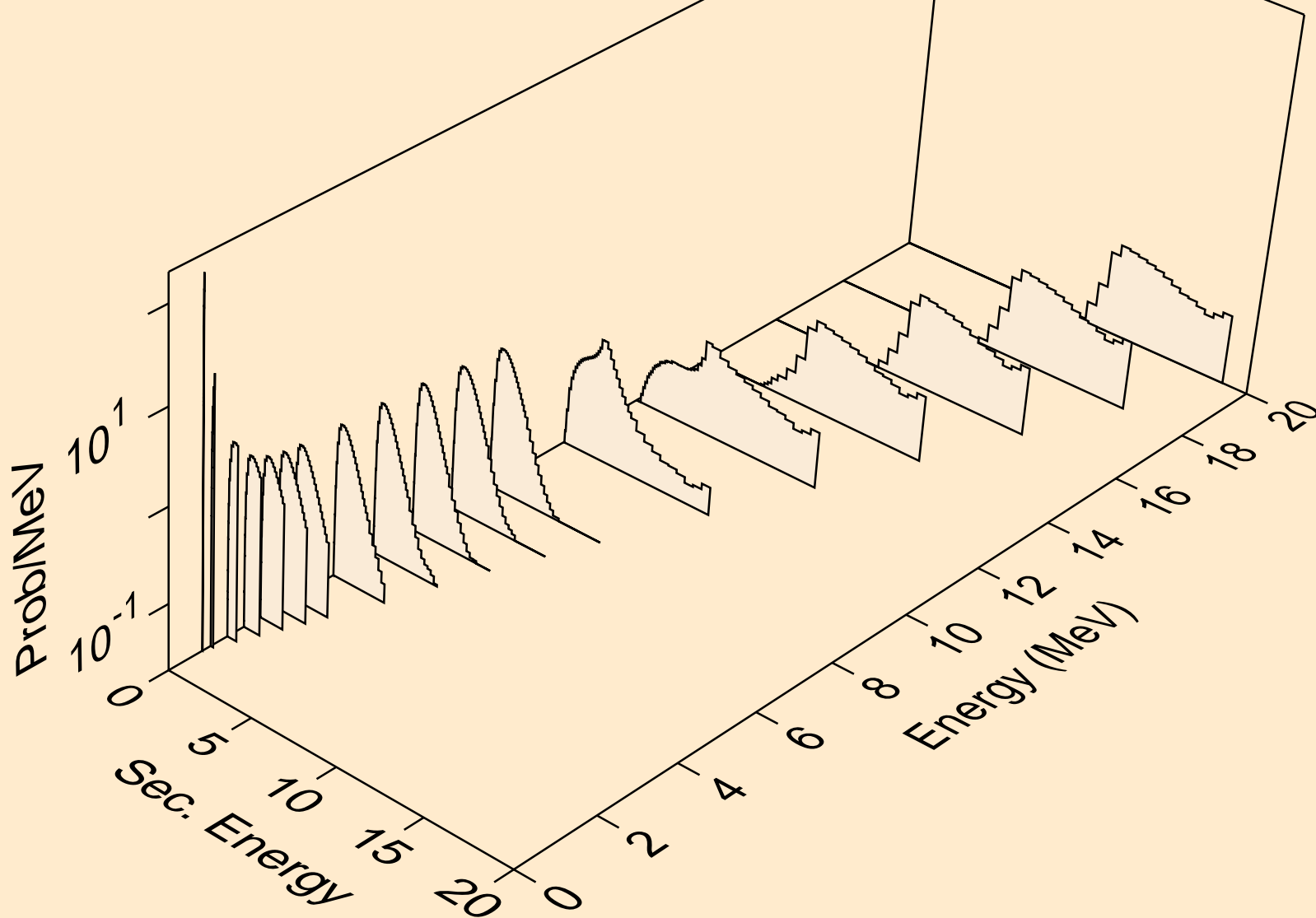Neutron emission for (n,n*)d

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
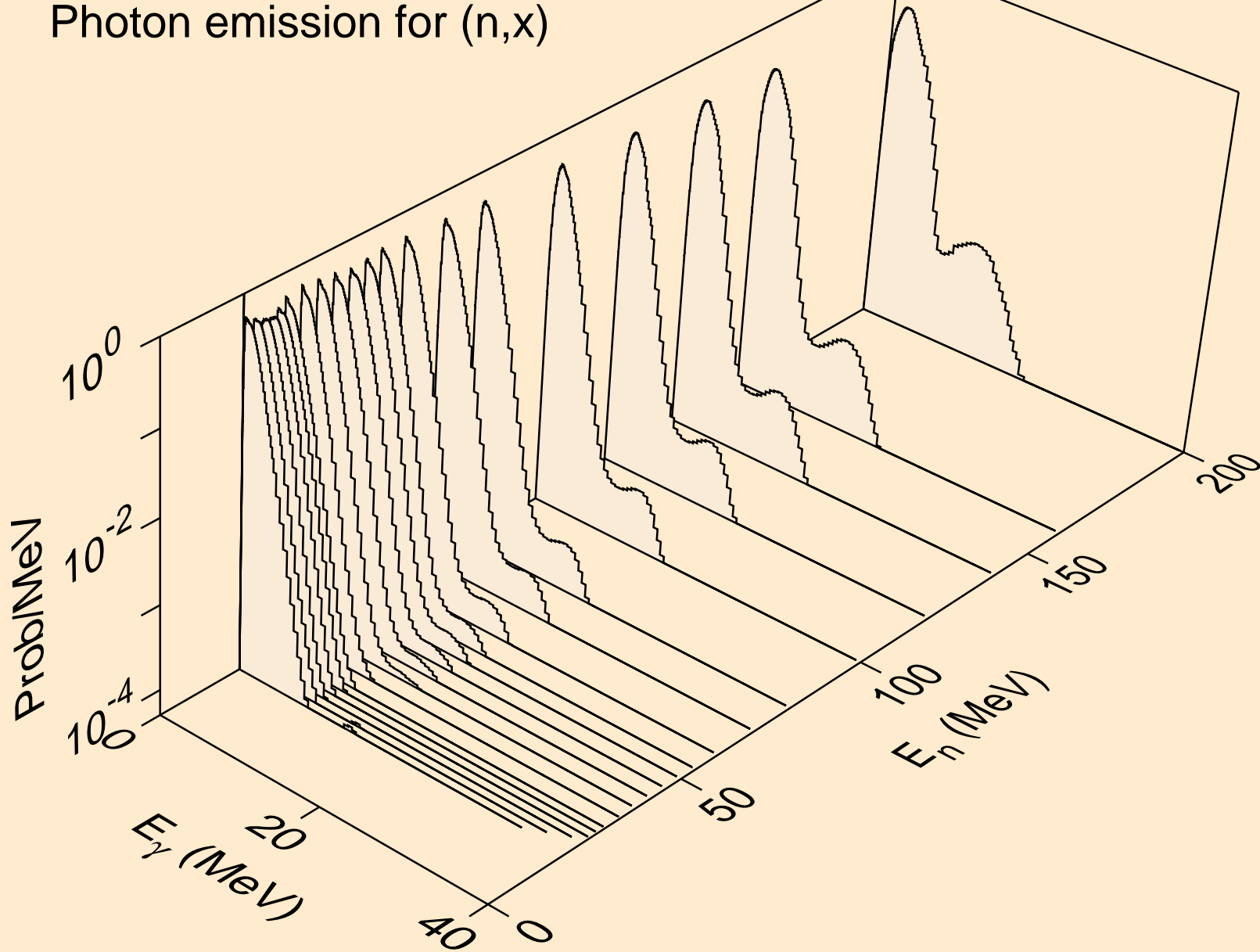Neutron emission for (n,n*)t

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
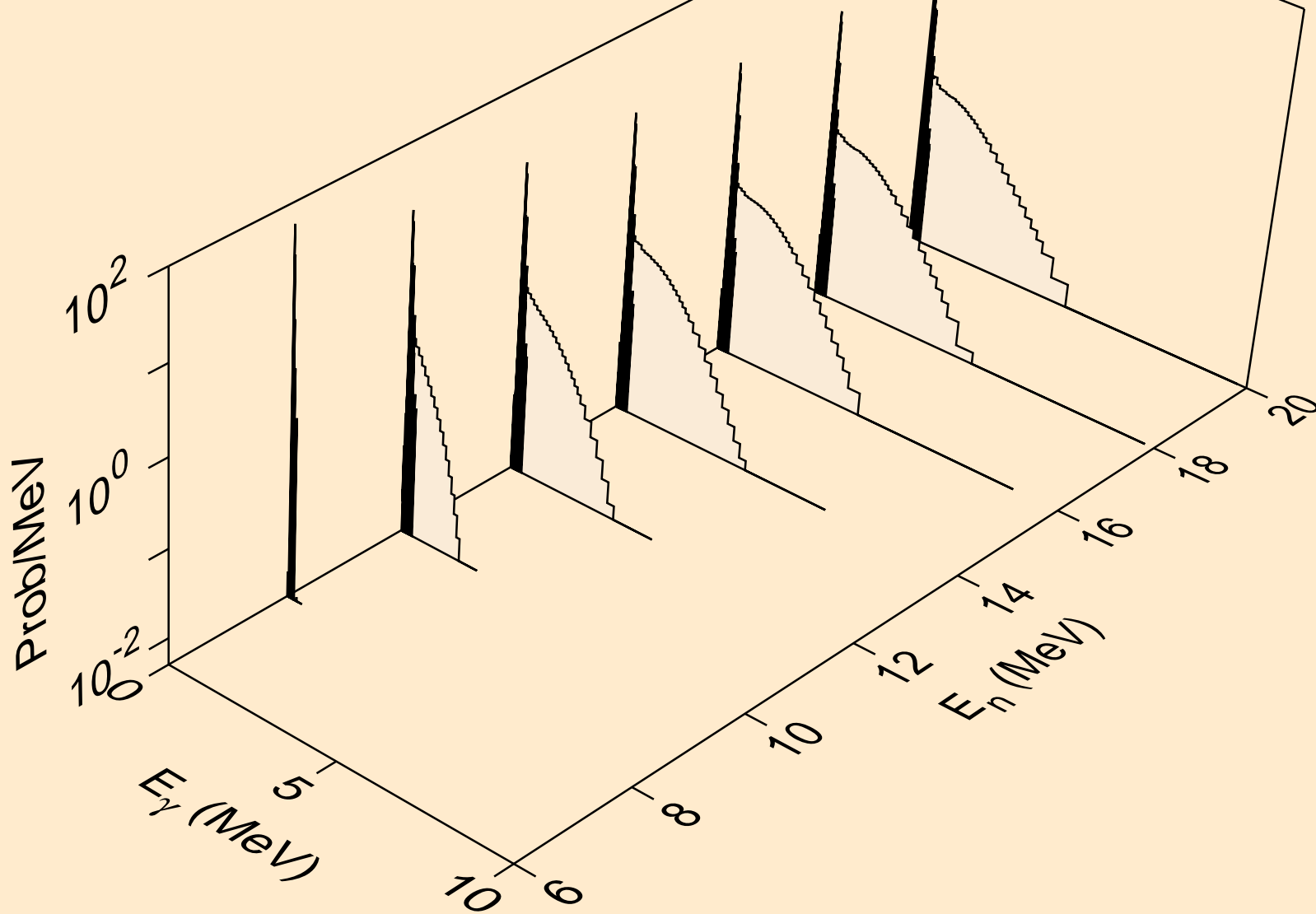
Neutron emission for (n,2np)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
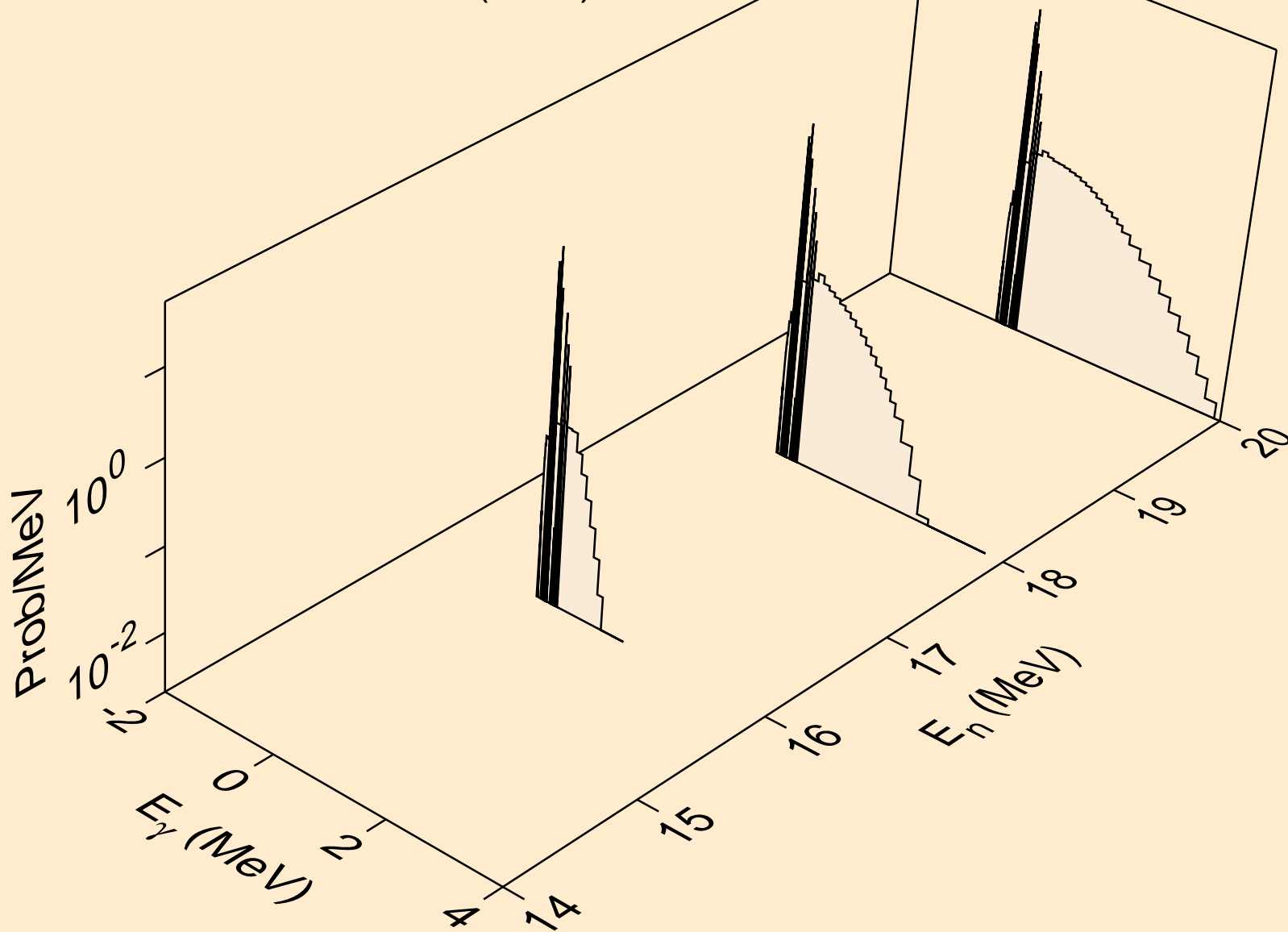Neutron emission for (n,n*c)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5

Photon emission for (n,x)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5

Photon emission for (n,2n)
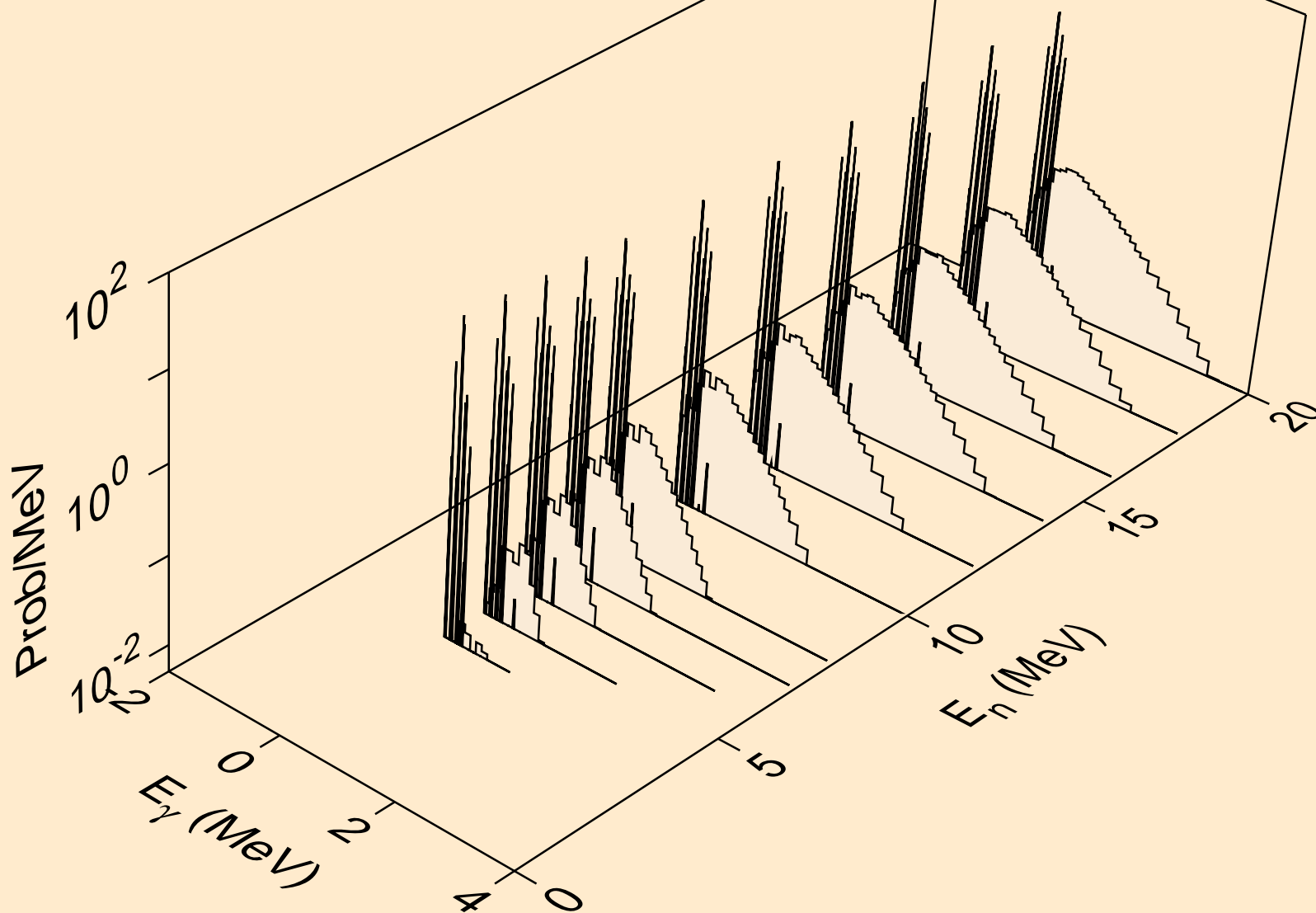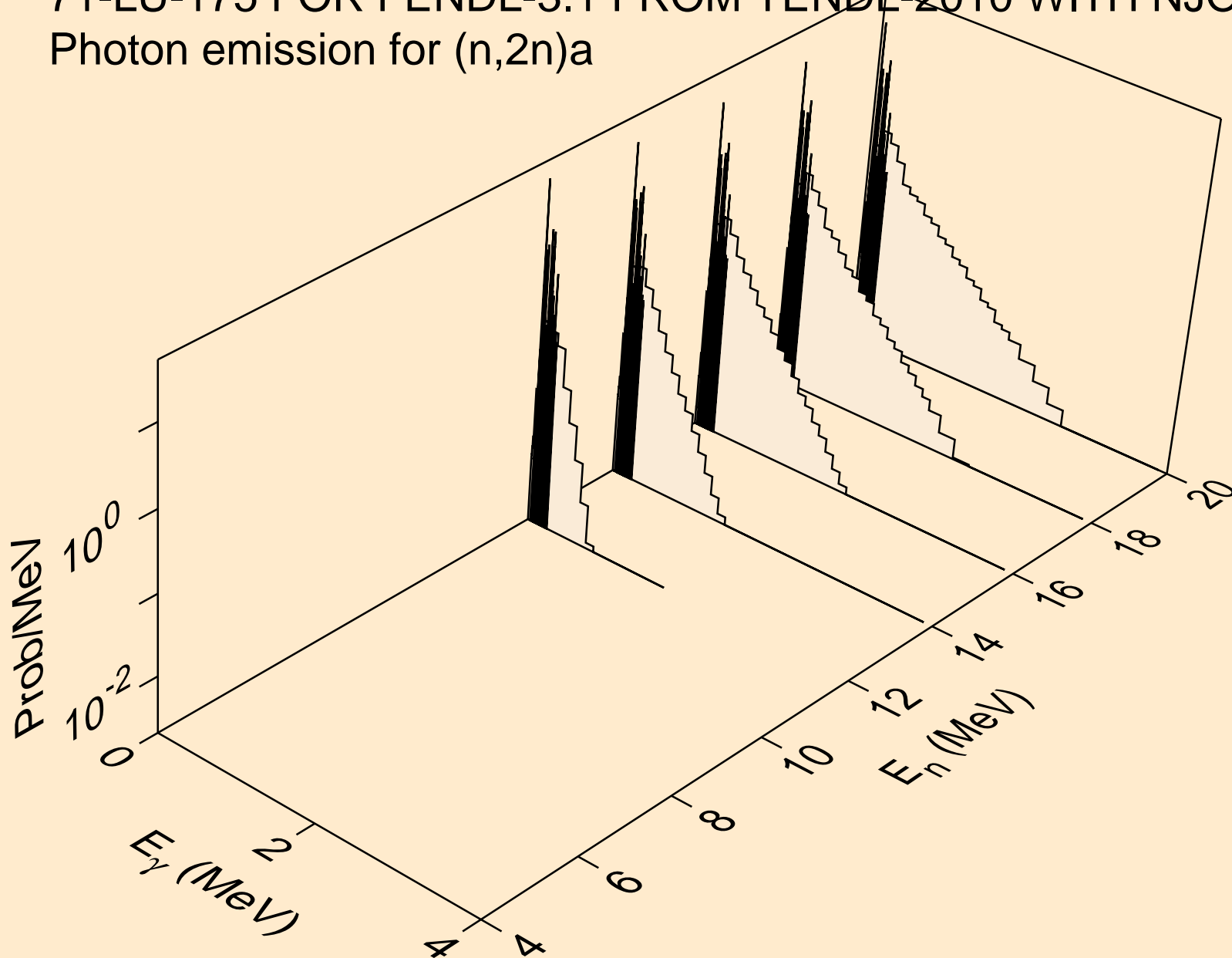
E_γ (MeV)

E_n (MeV)

Prob/MeV

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
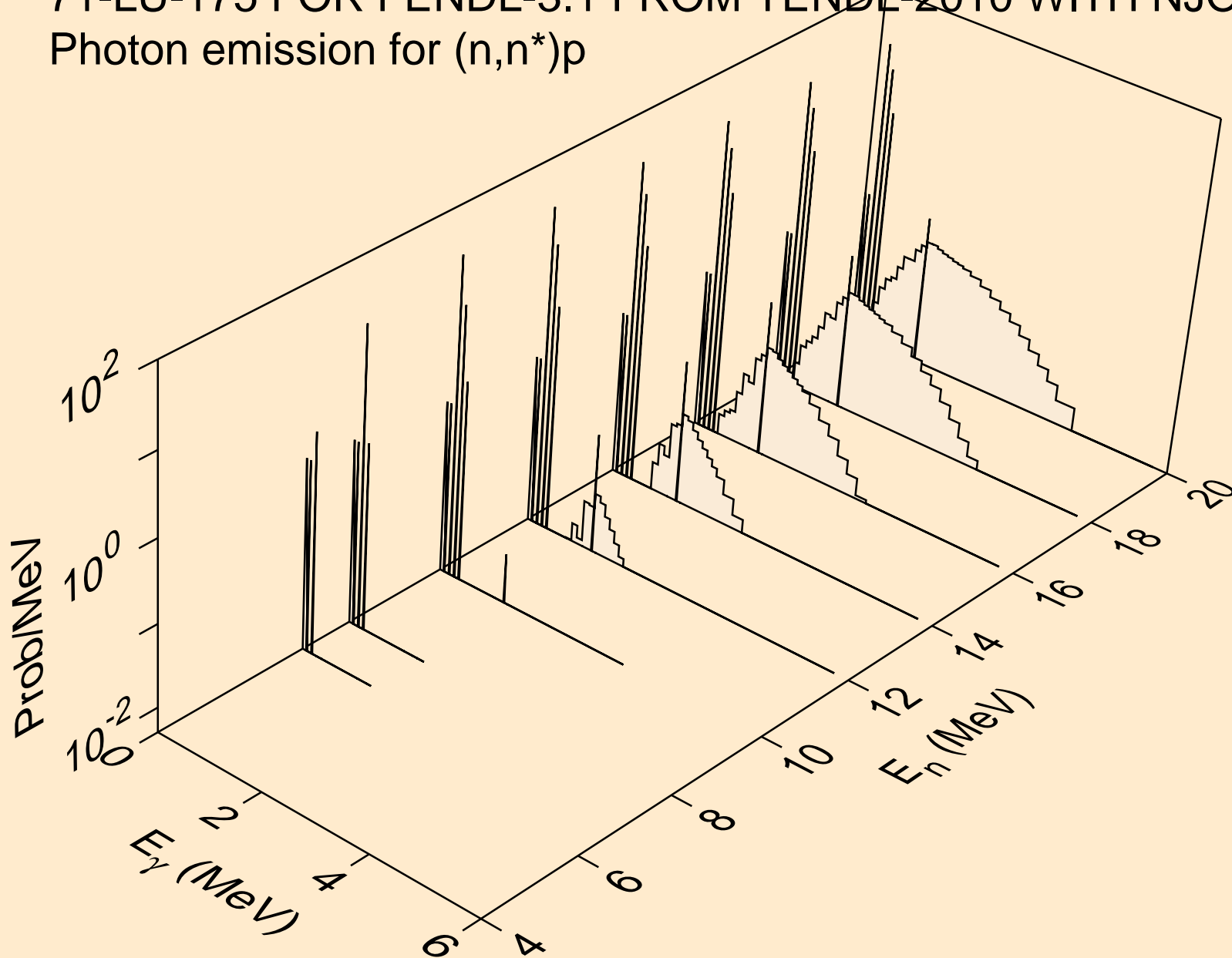
Photon emission for (n,3n)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
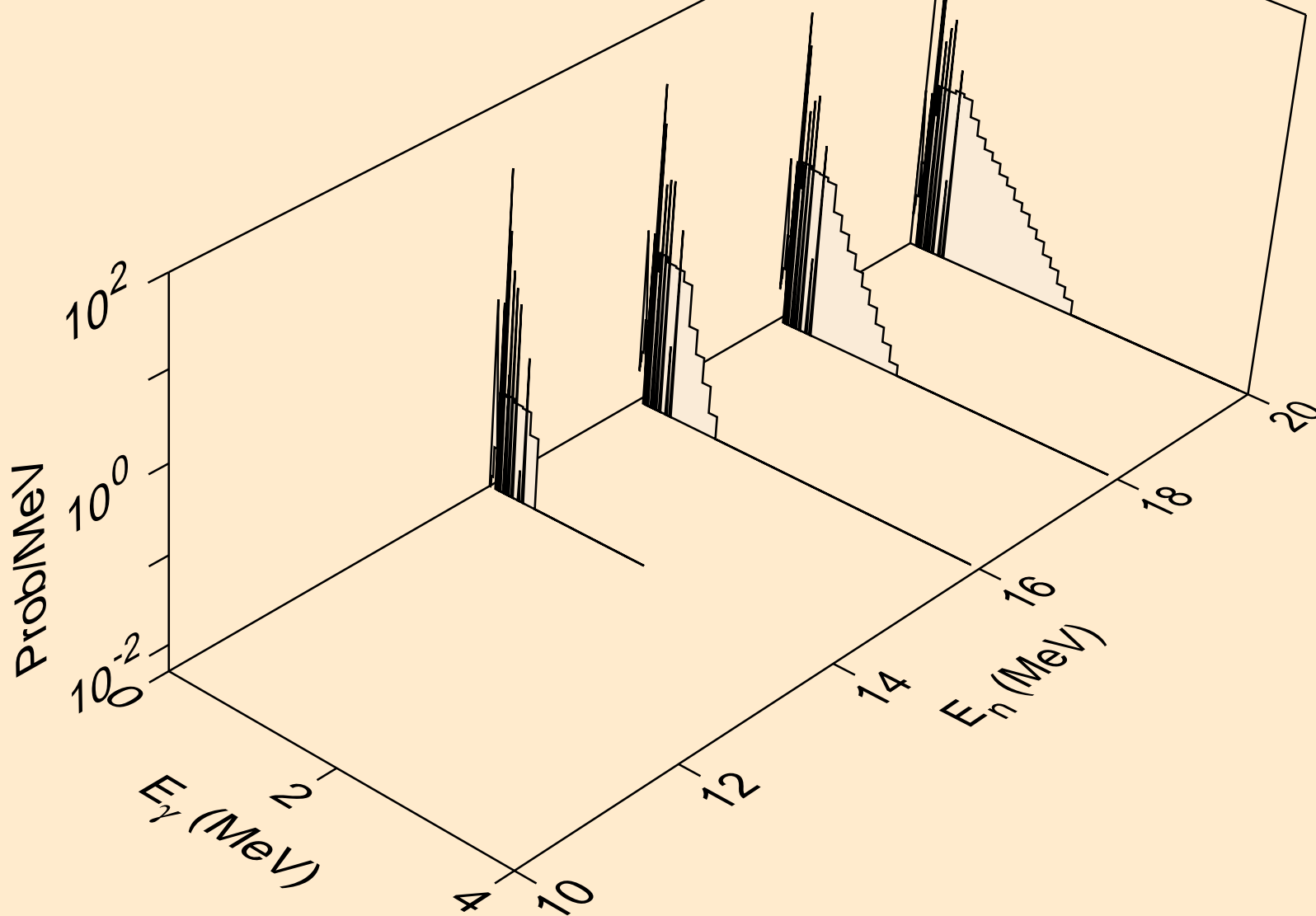
Photon emission for (n,n*)a

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
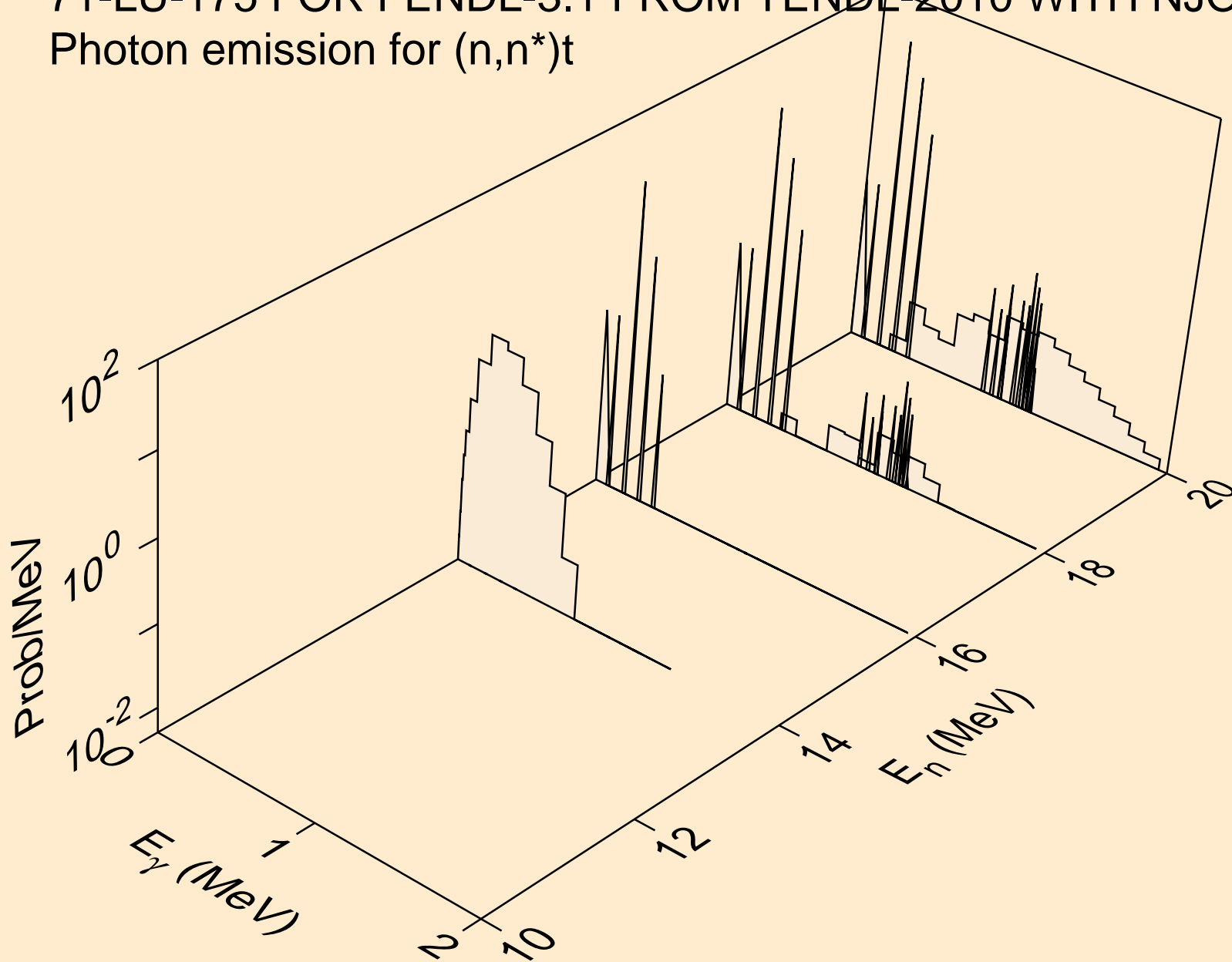
Photon emission for (n,2n)a

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
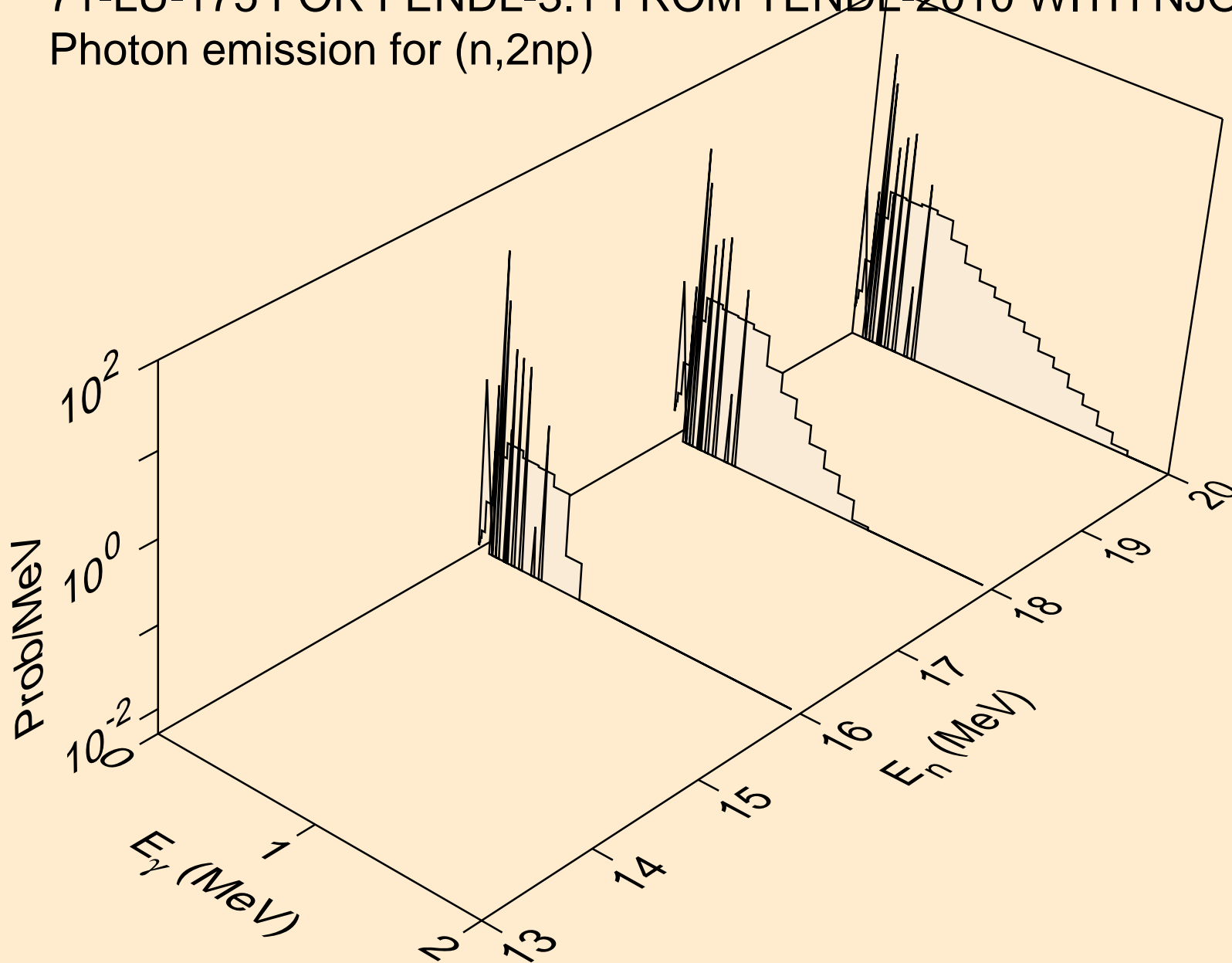
Photon emission for (n,n*)p

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
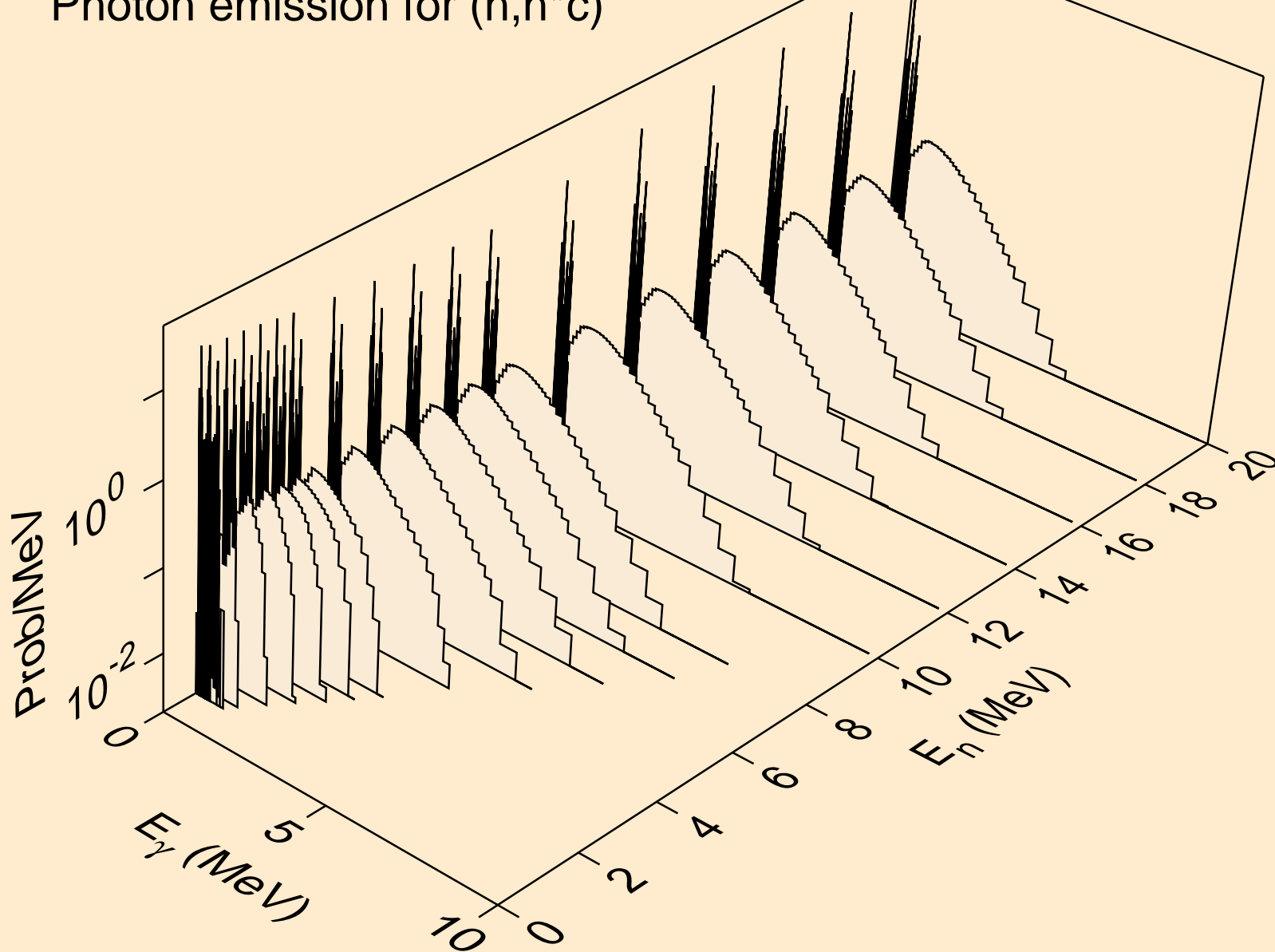
Photon emission for (n,n*)d

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
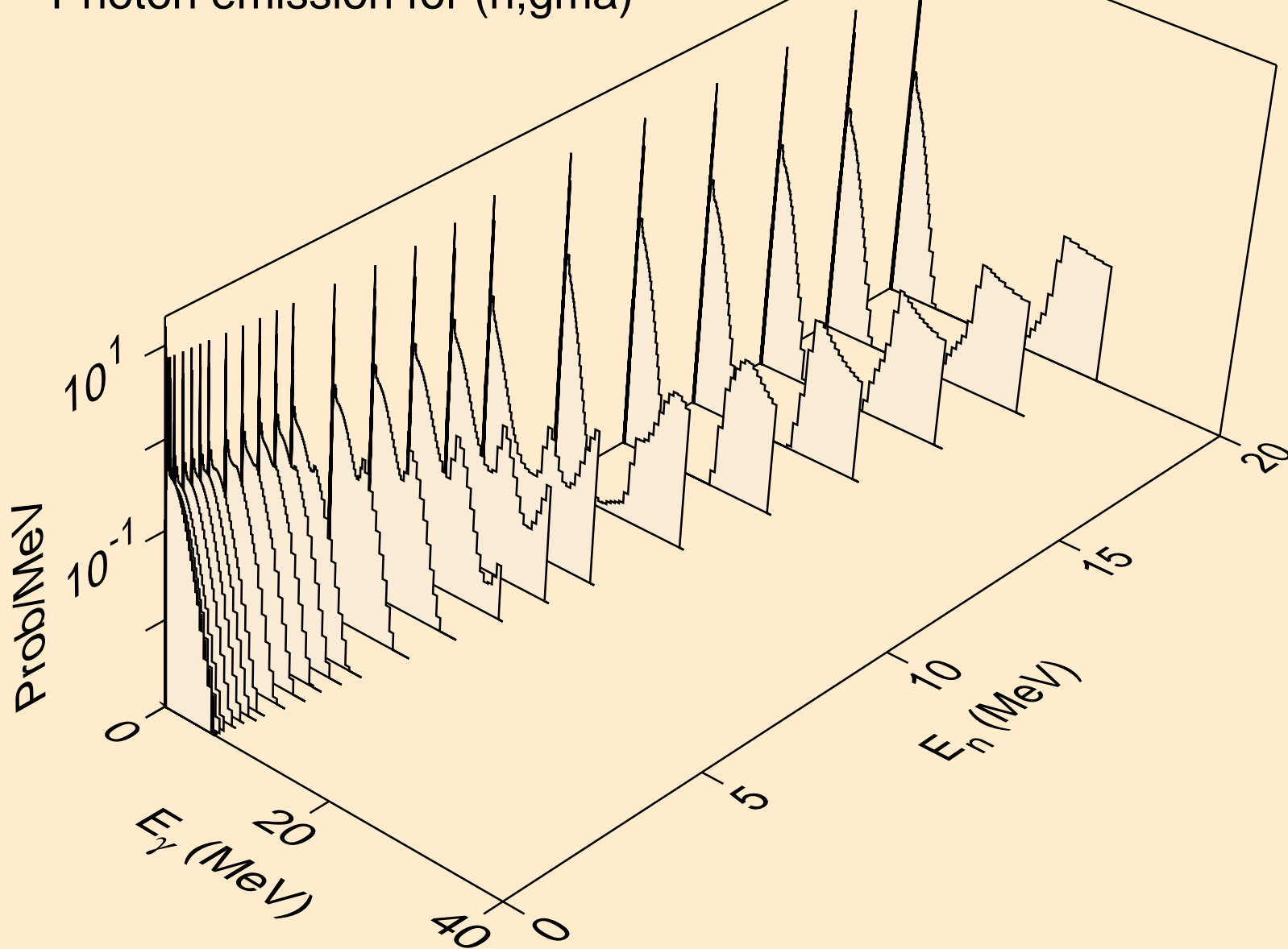
Photon emission for (n,n*)t

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
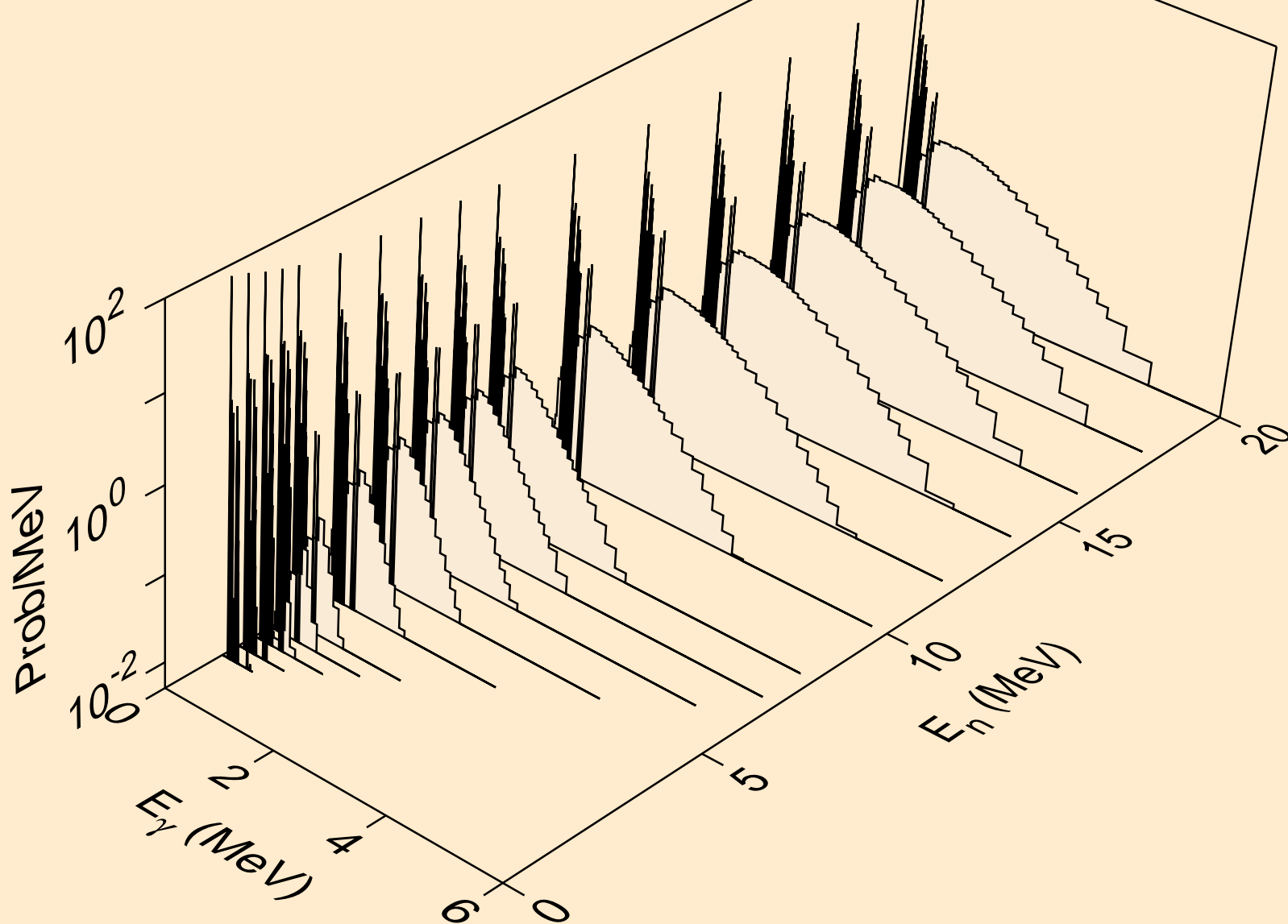
Photon emission for (n,2np)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
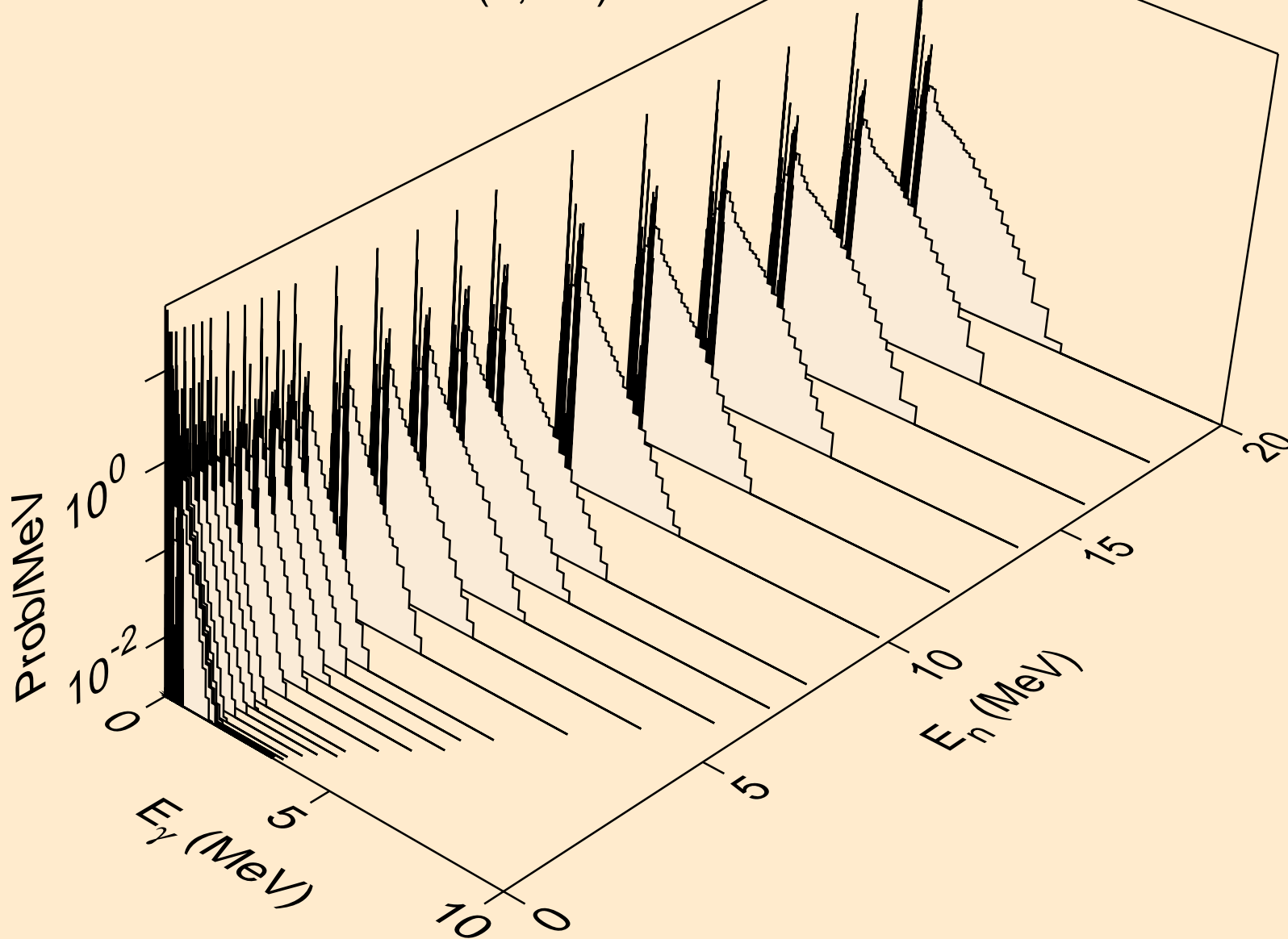
Photon emission for (n,n*c)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
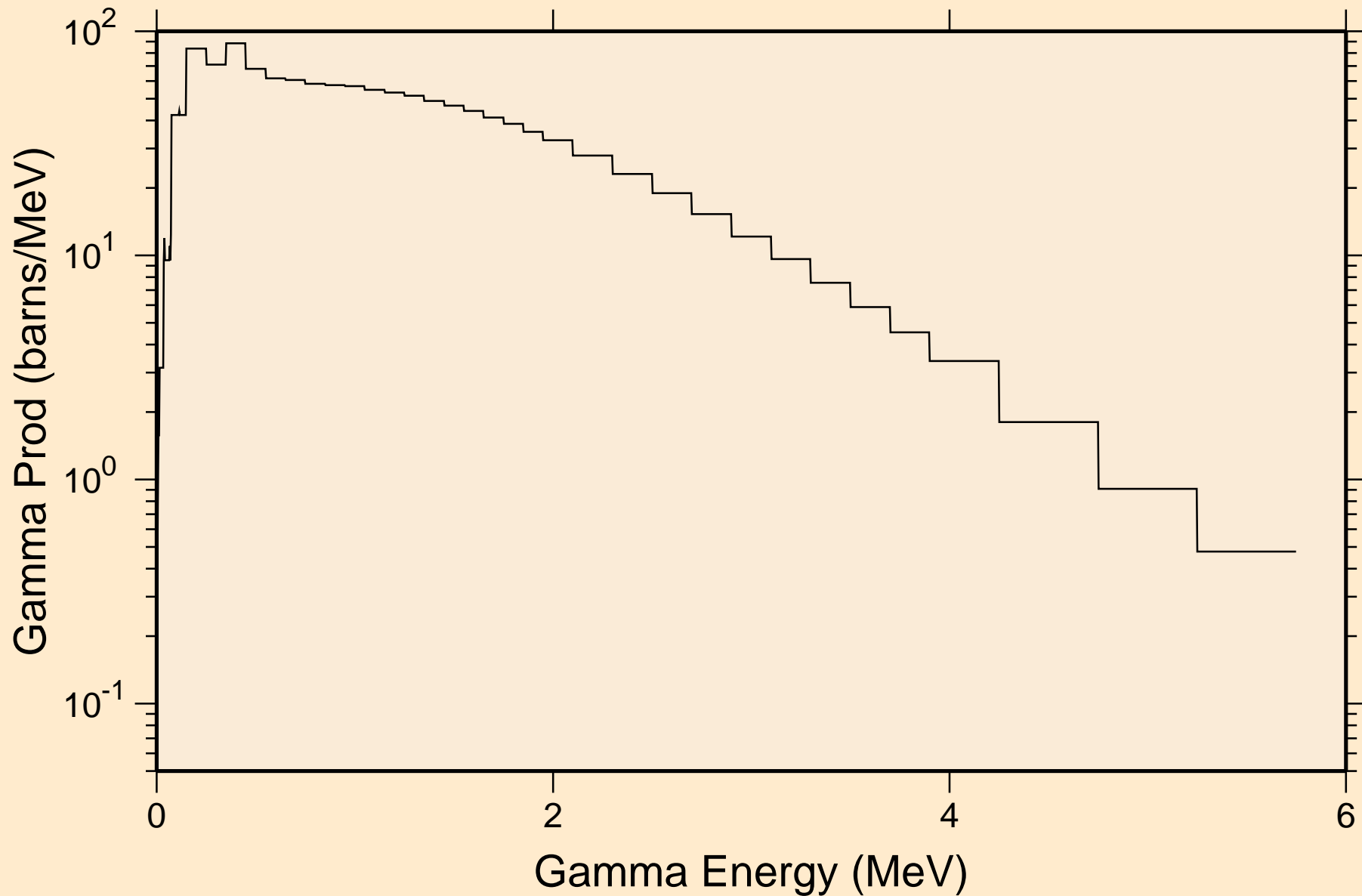
Photon emission for (n,gma)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
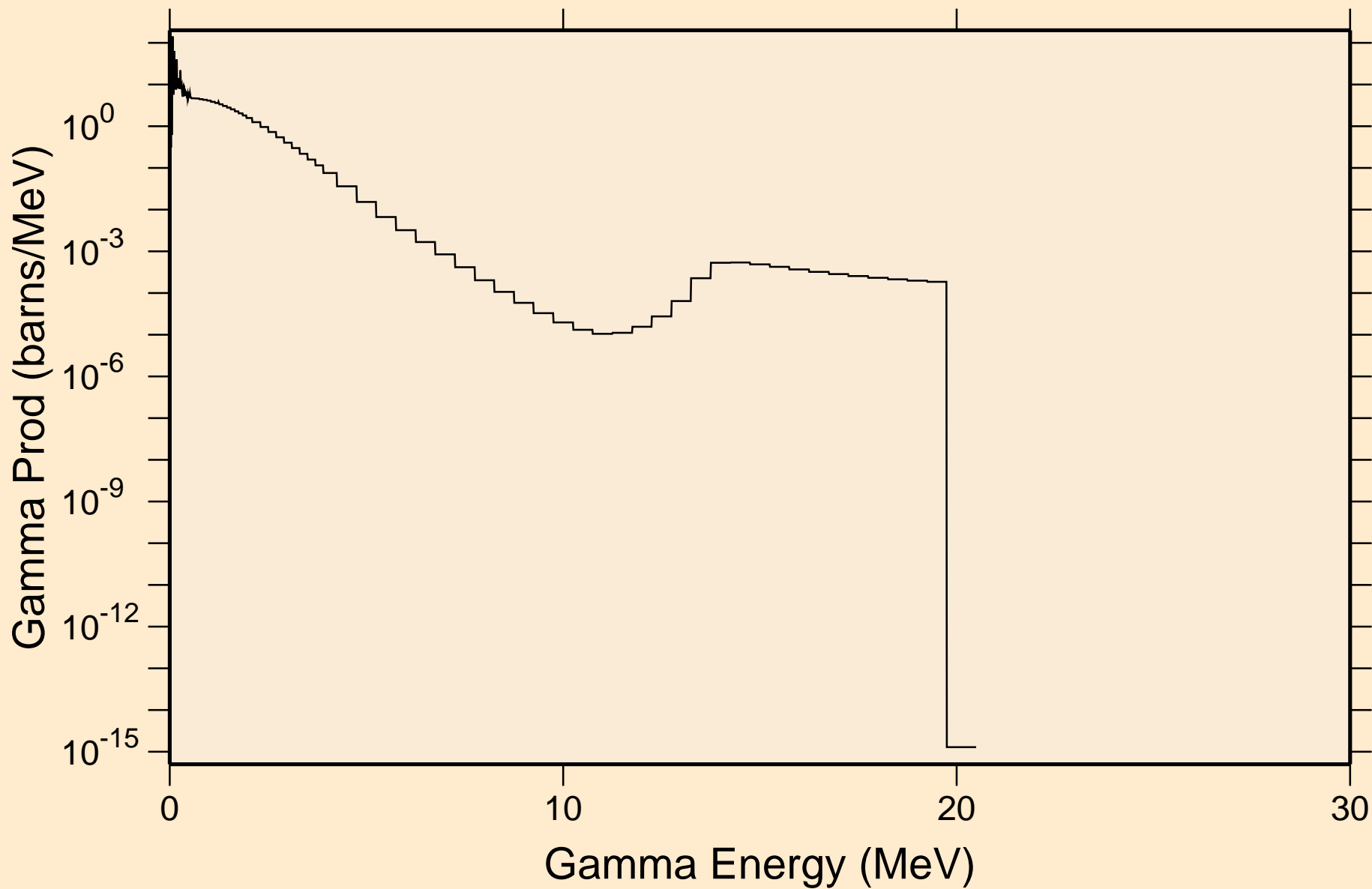
Photon emission for (n,p*c)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
Photon emission for (n,a*c)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
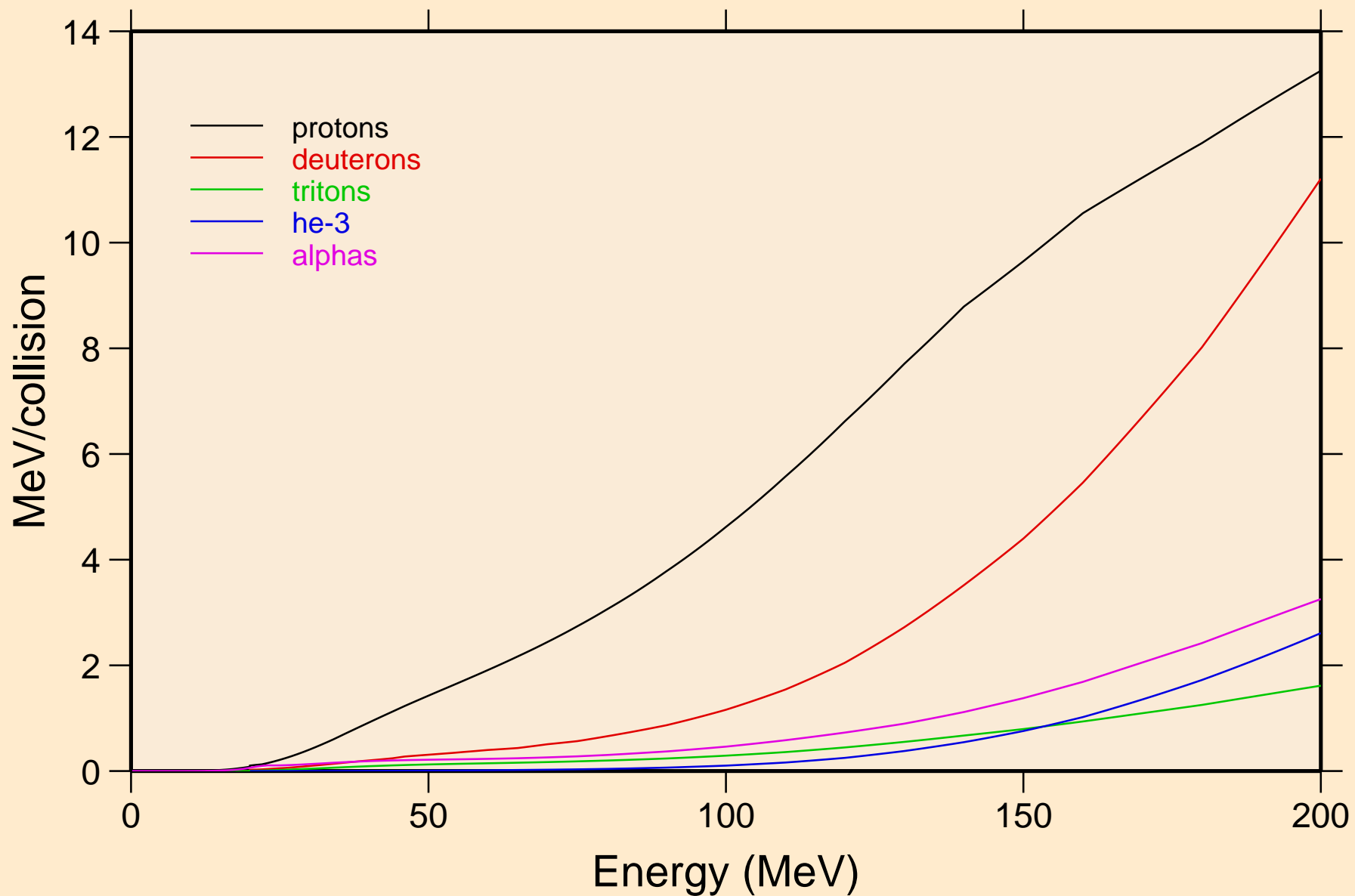thermal capture photon spectrum

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
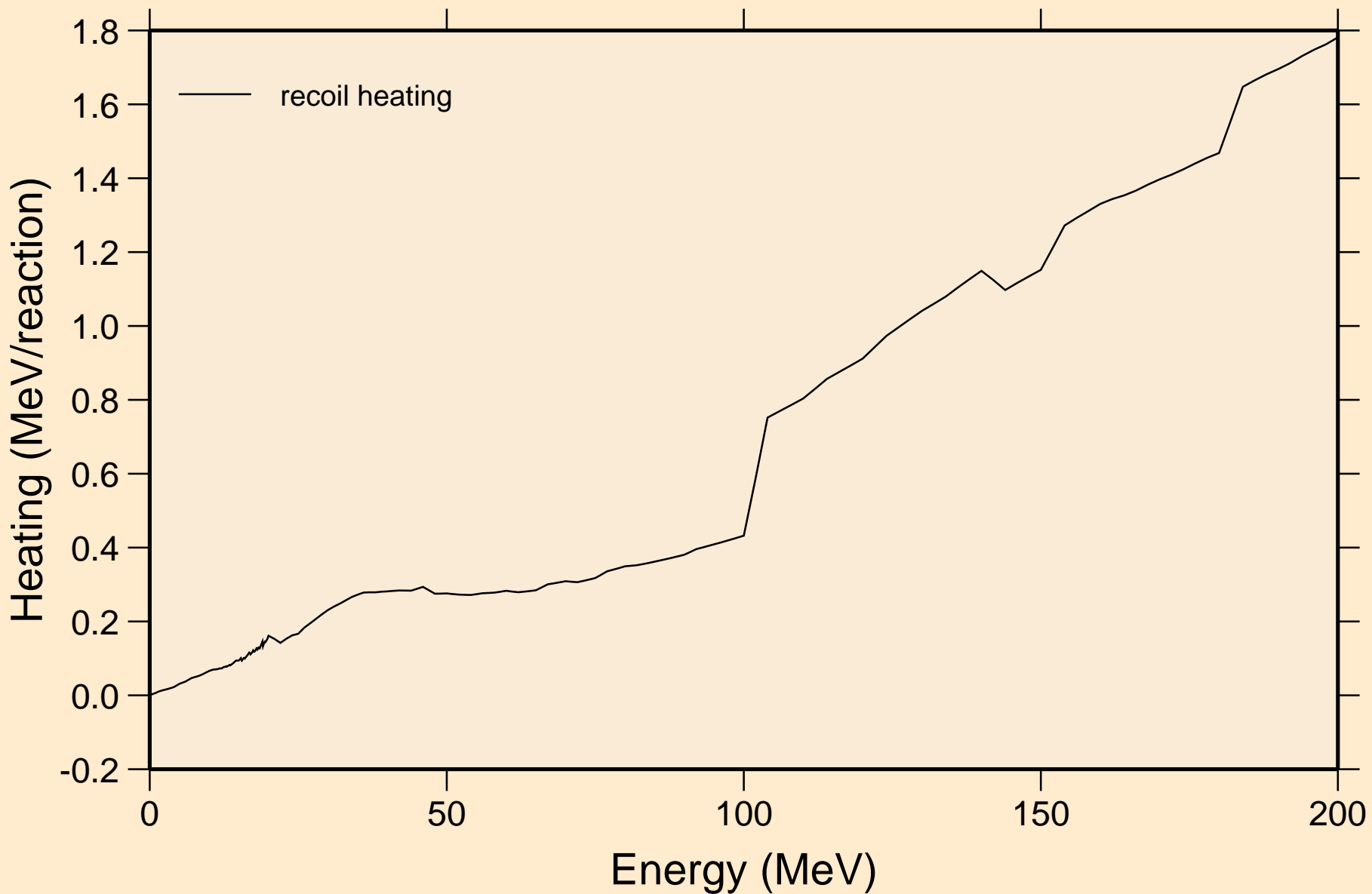14 MeV photon spectrum

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
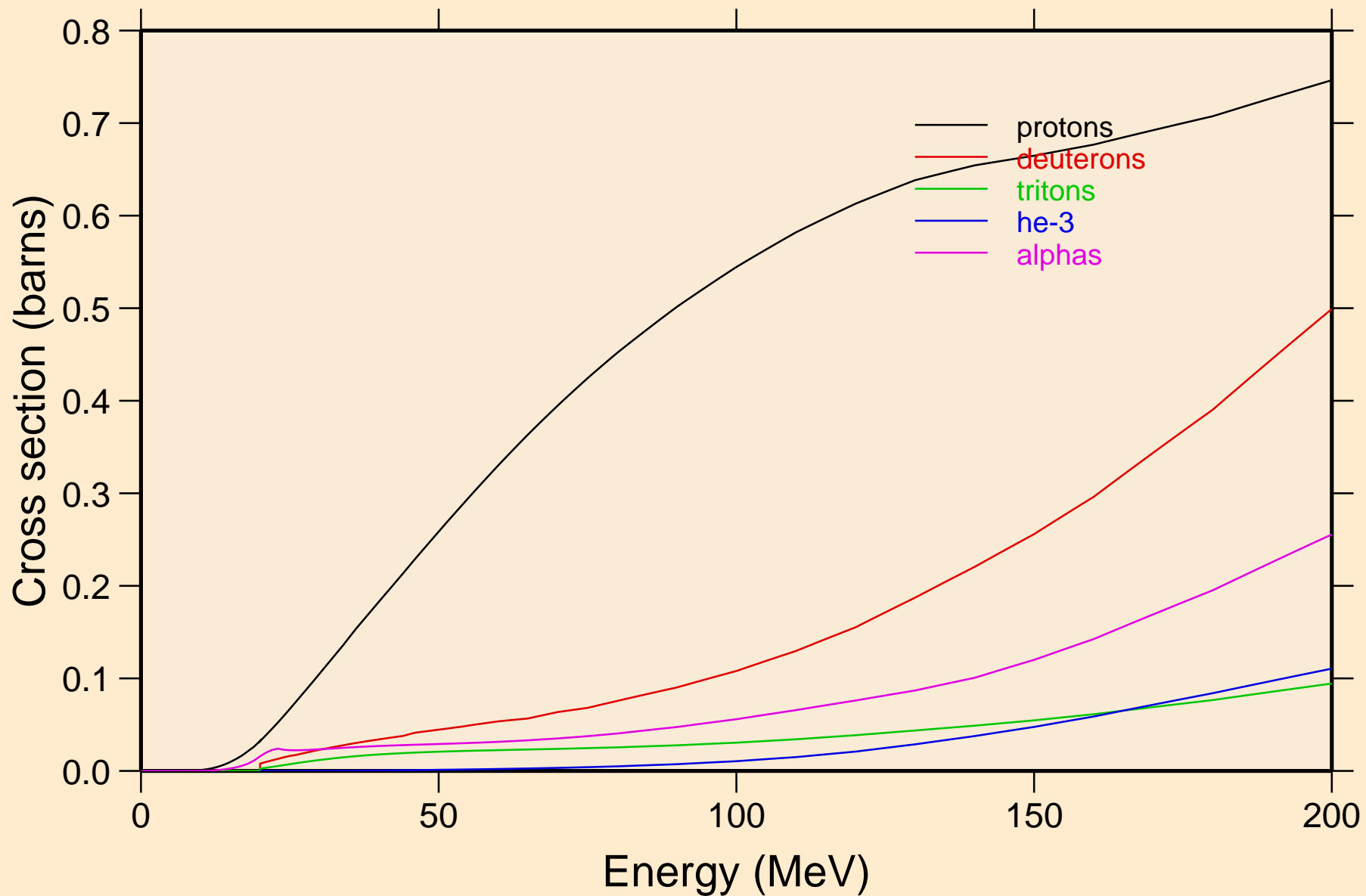Particle heating contributions

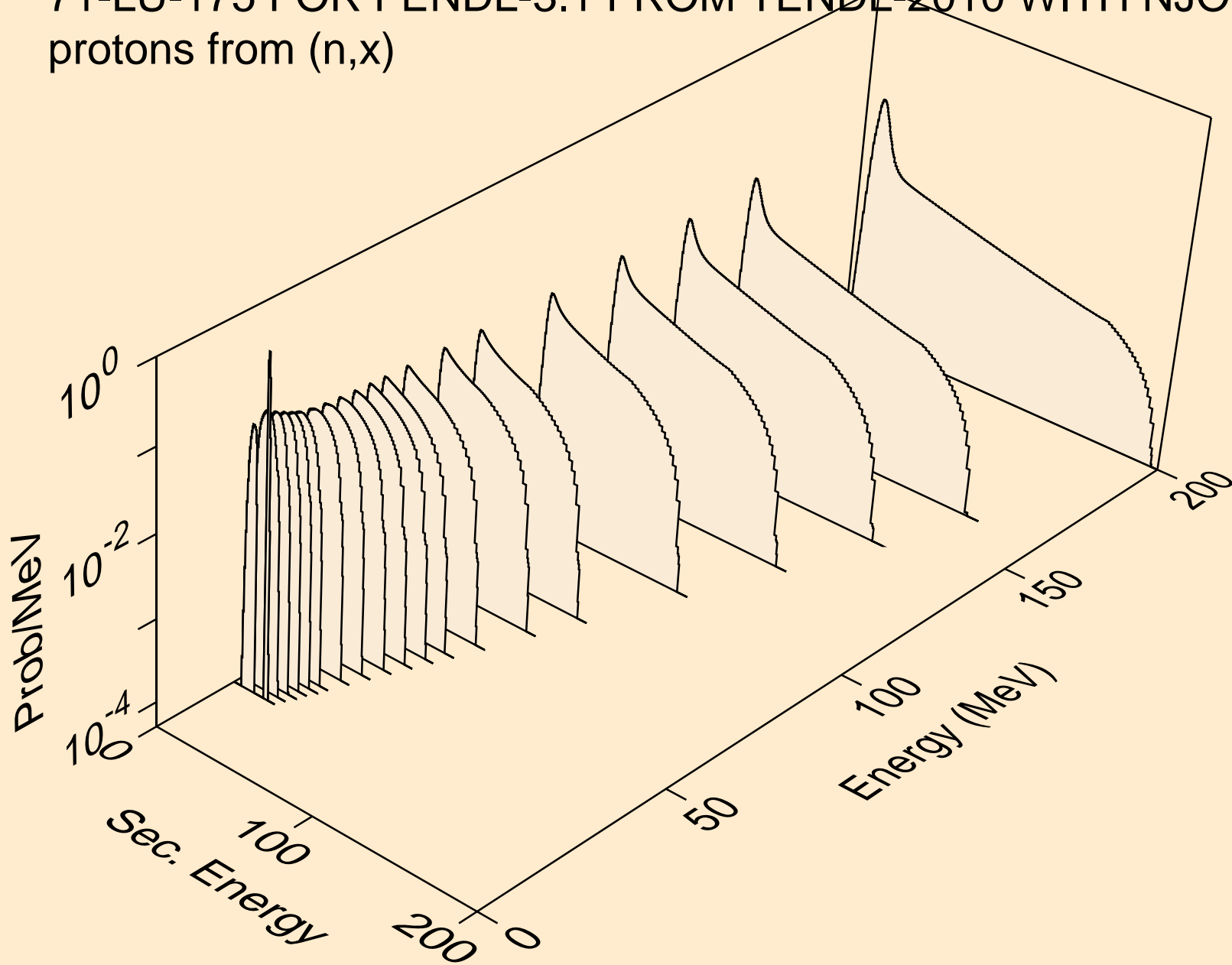71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
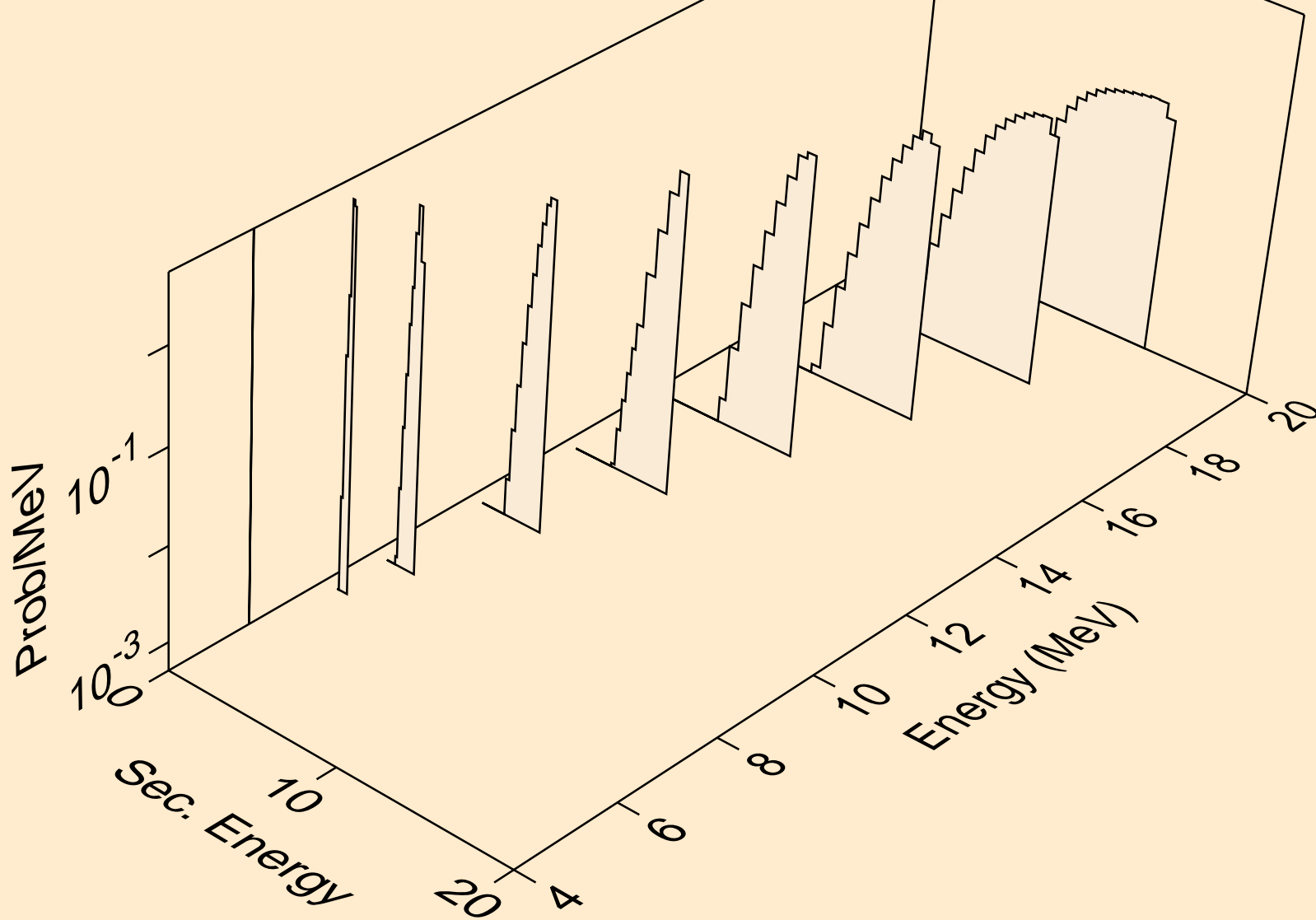Recoil Heating

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
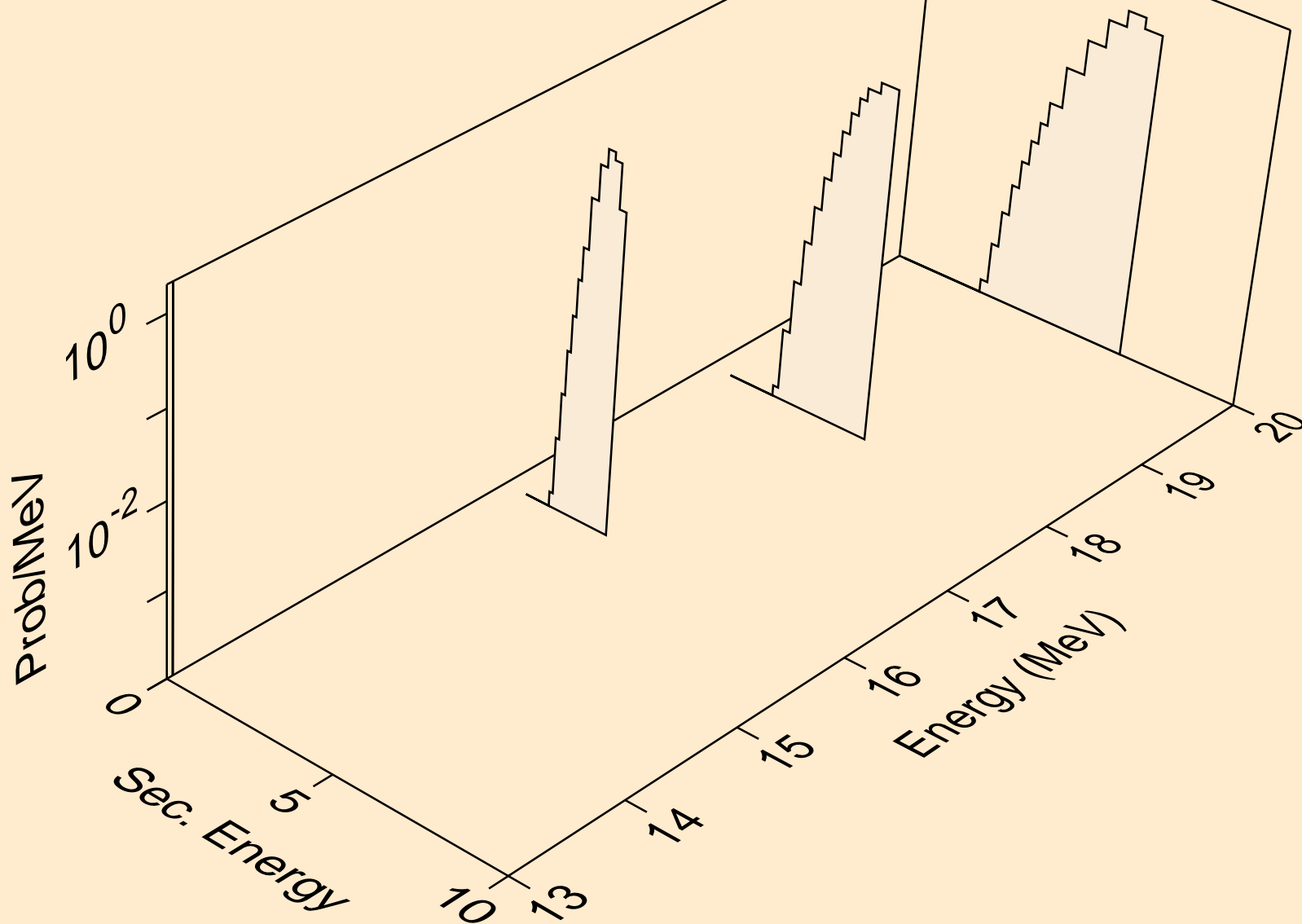Particle production cross sections

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5

protons from (n,x)

Prob/MeV

10^0

10^{-2}

10^{-4}

Sec. Energy

100

200
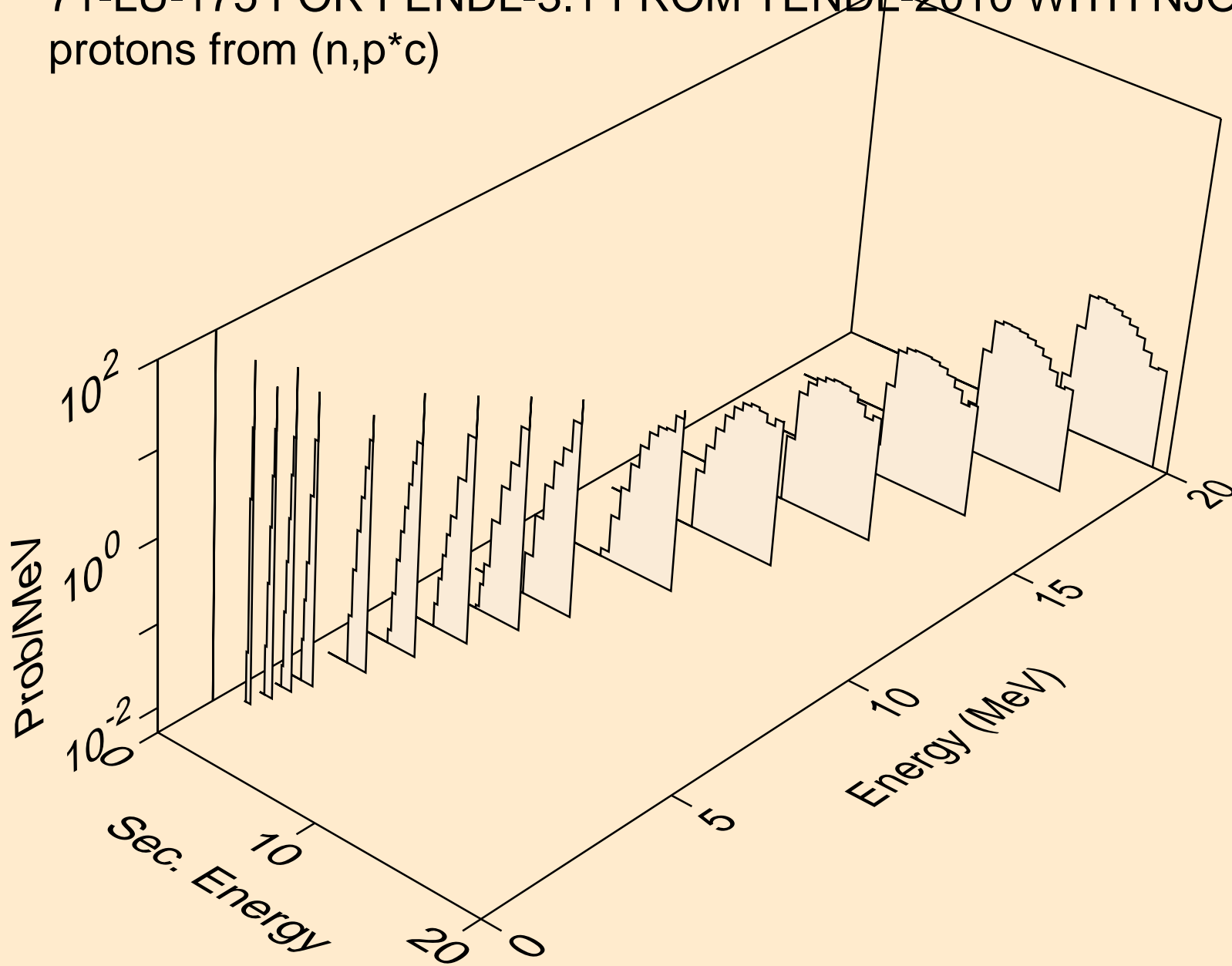
50

100

150

200

Energy (MeV)

0

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
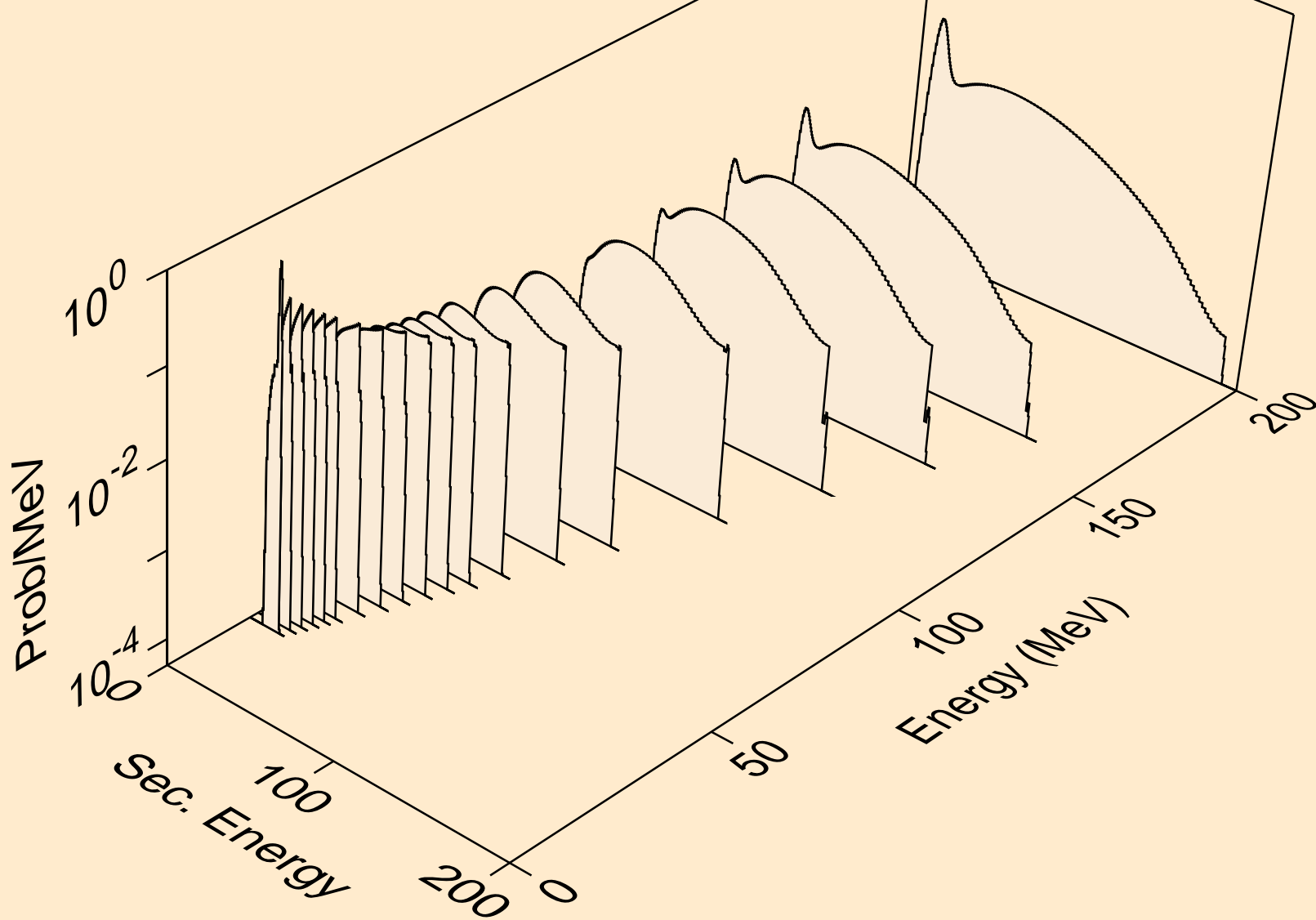
protons from (n,n*)p

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
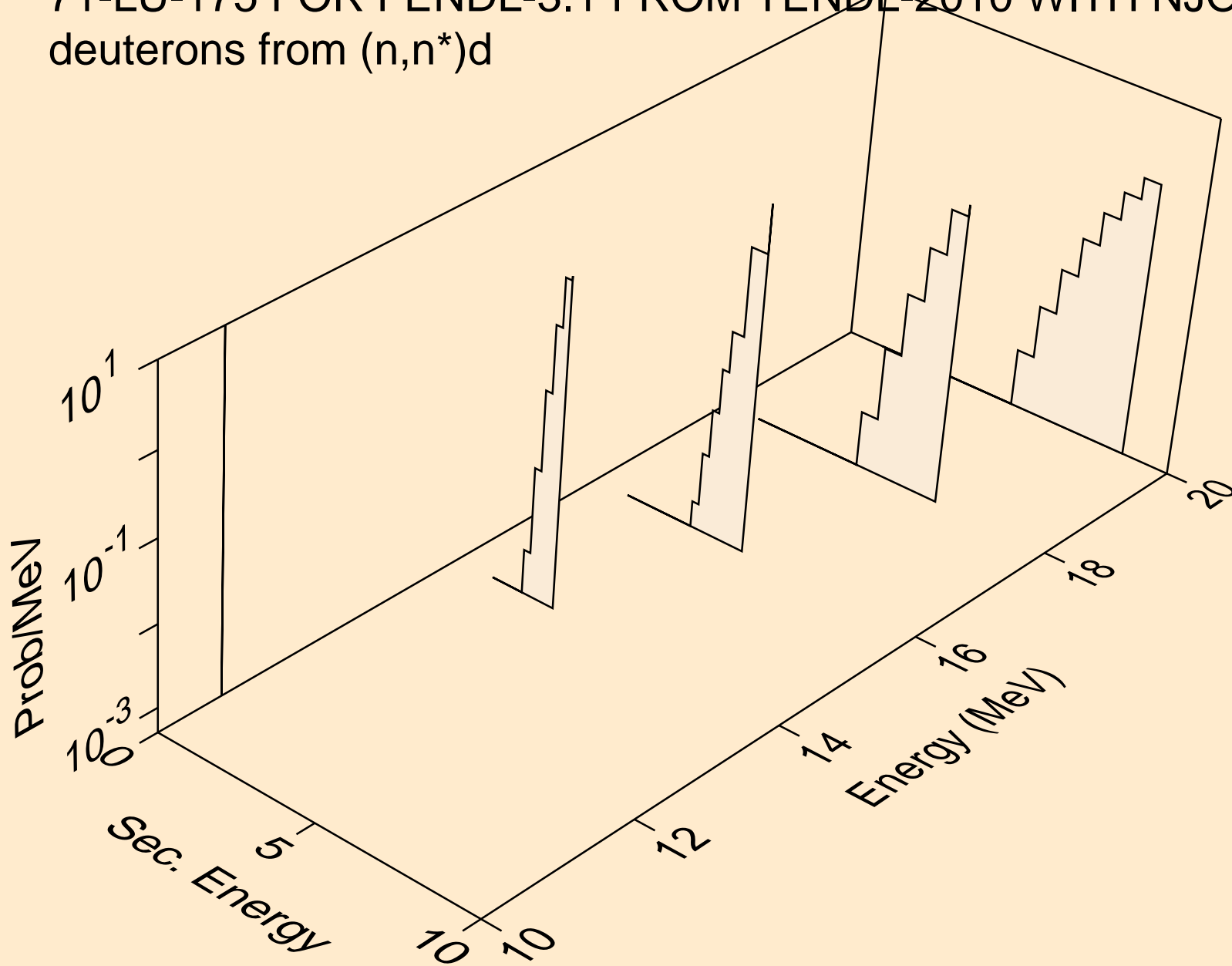
protons from (n,2np)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
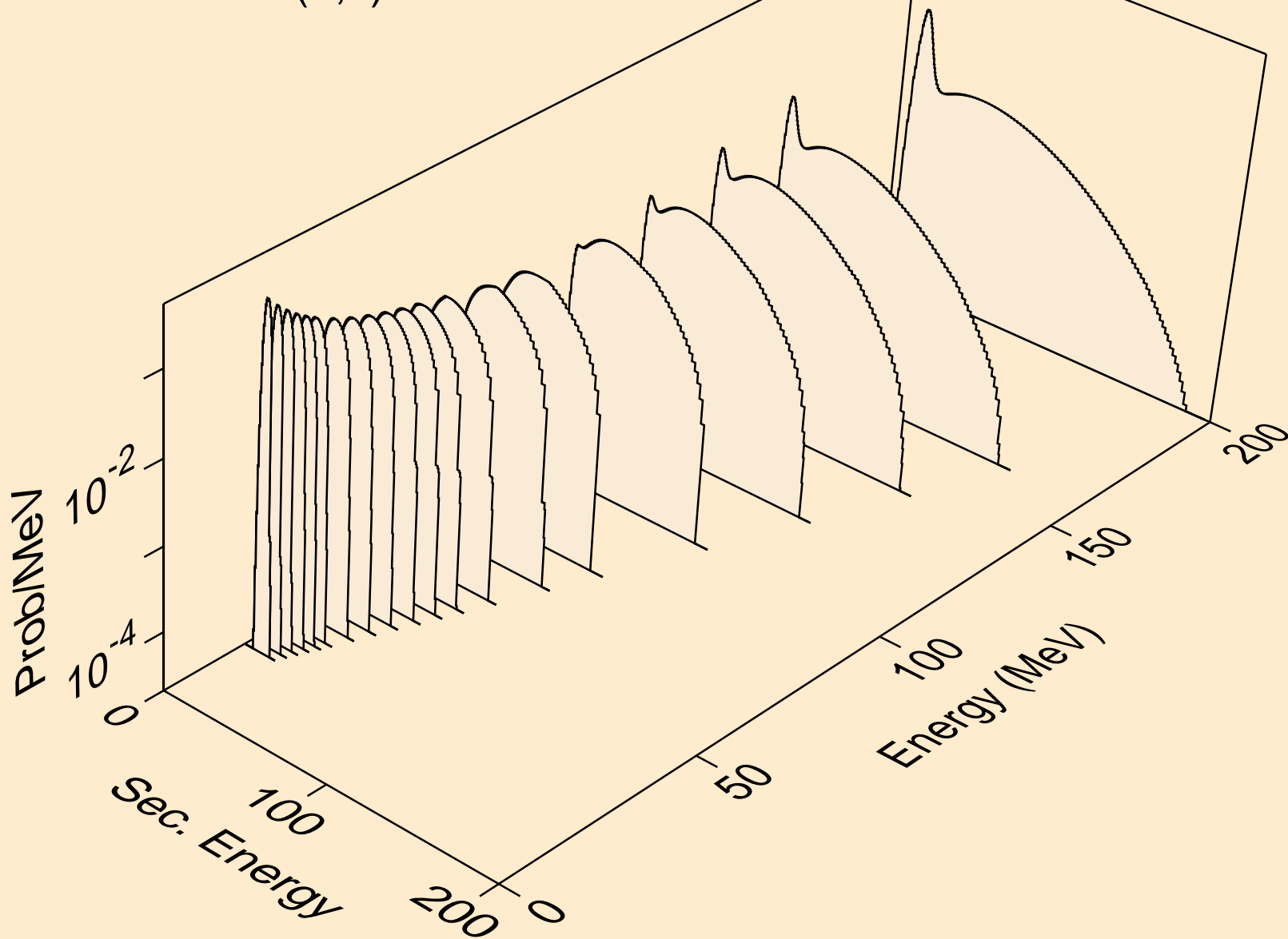
protons from (n,p*c)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
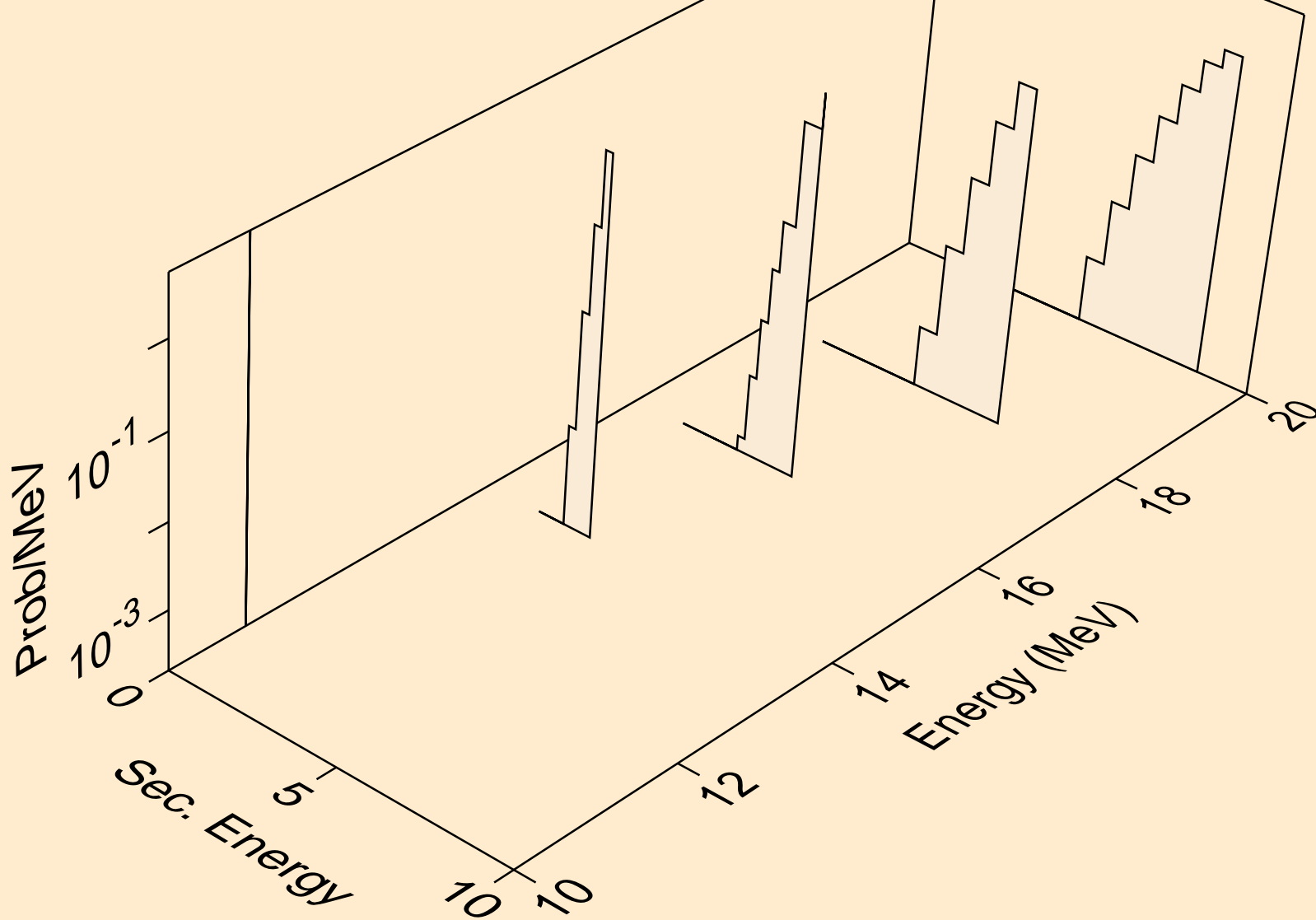
deuterons from (n,x)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
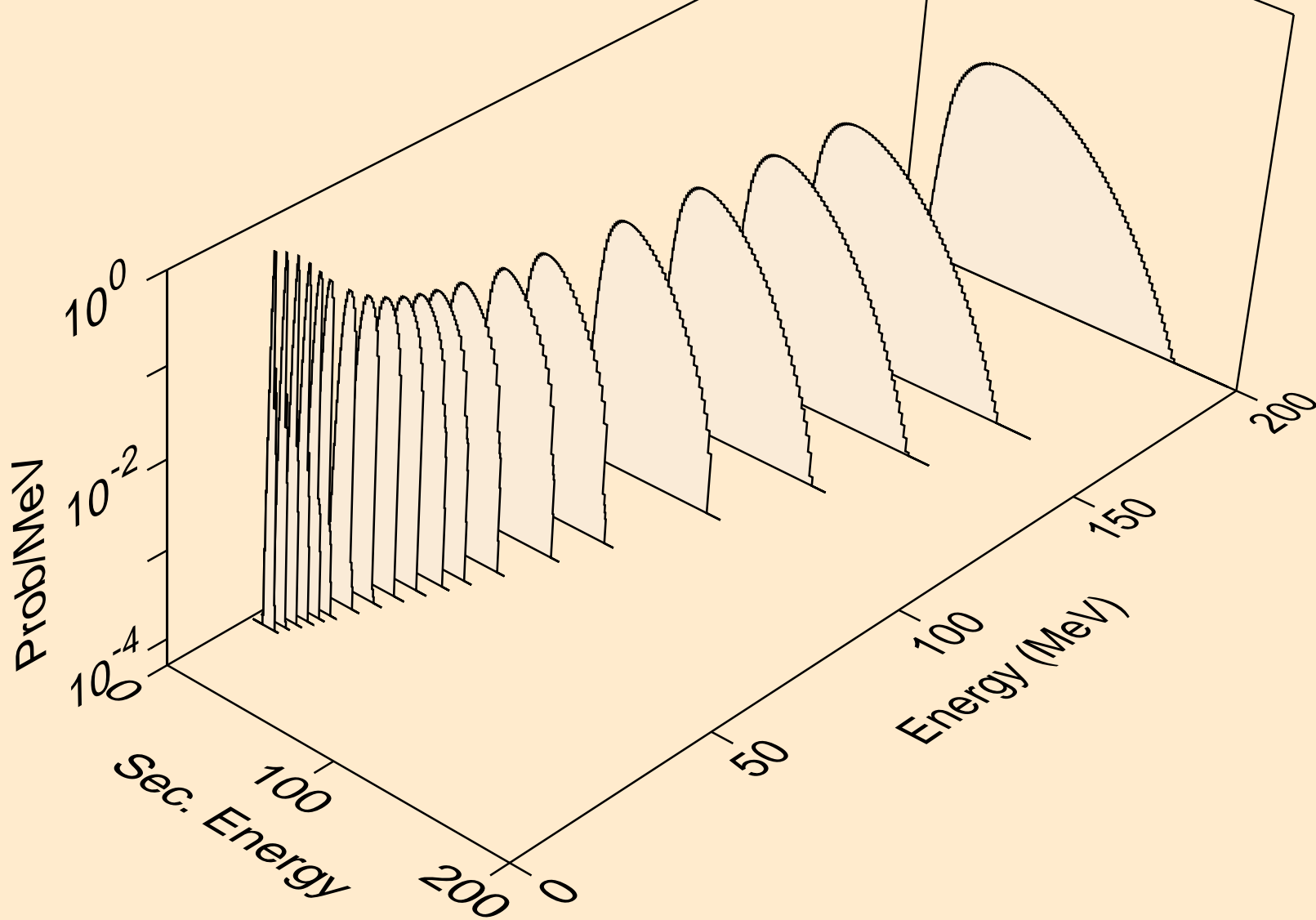
deuterons from (n,n*)d

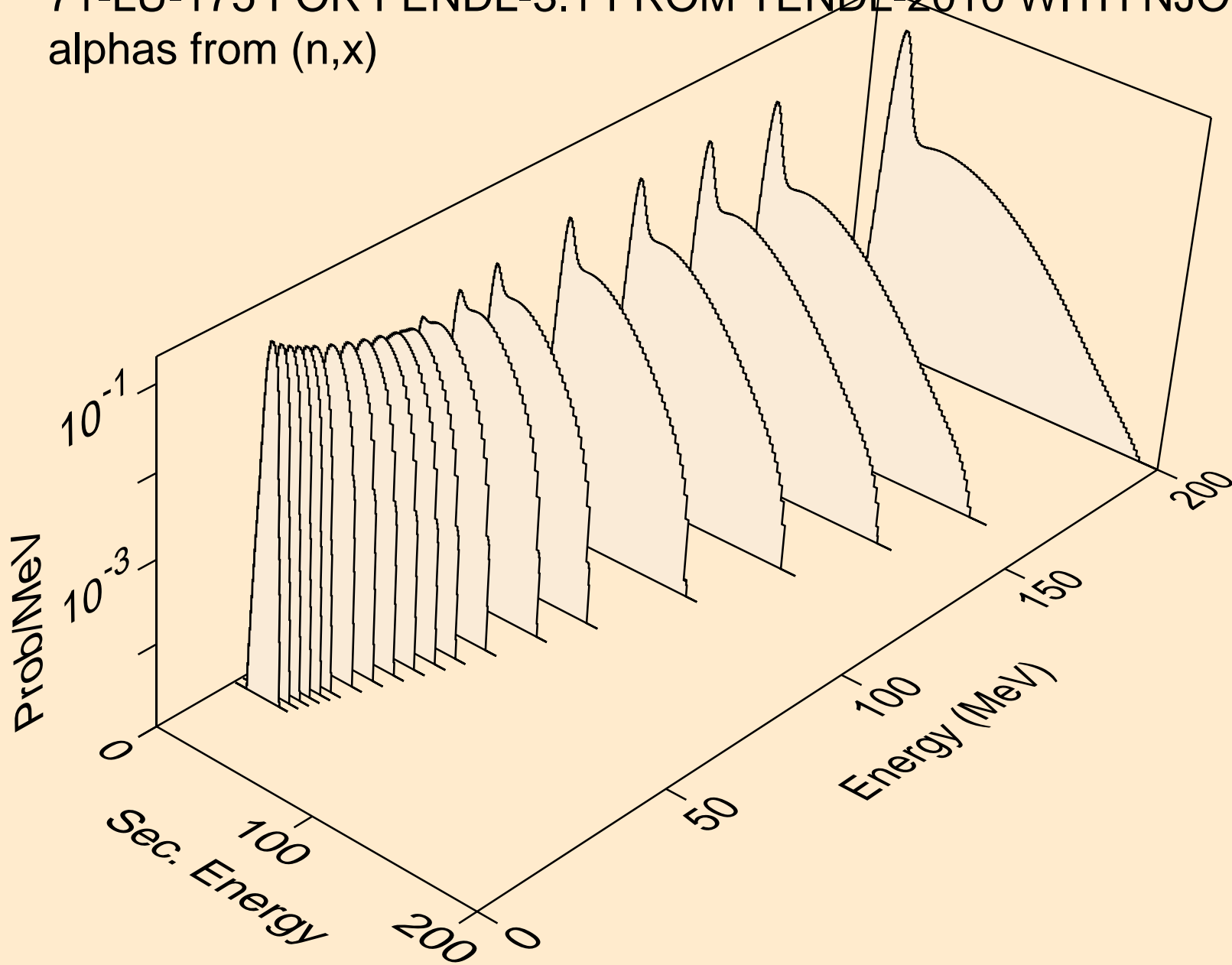71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5

tritons from (n,x)

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5

tritons from (n,n*)t

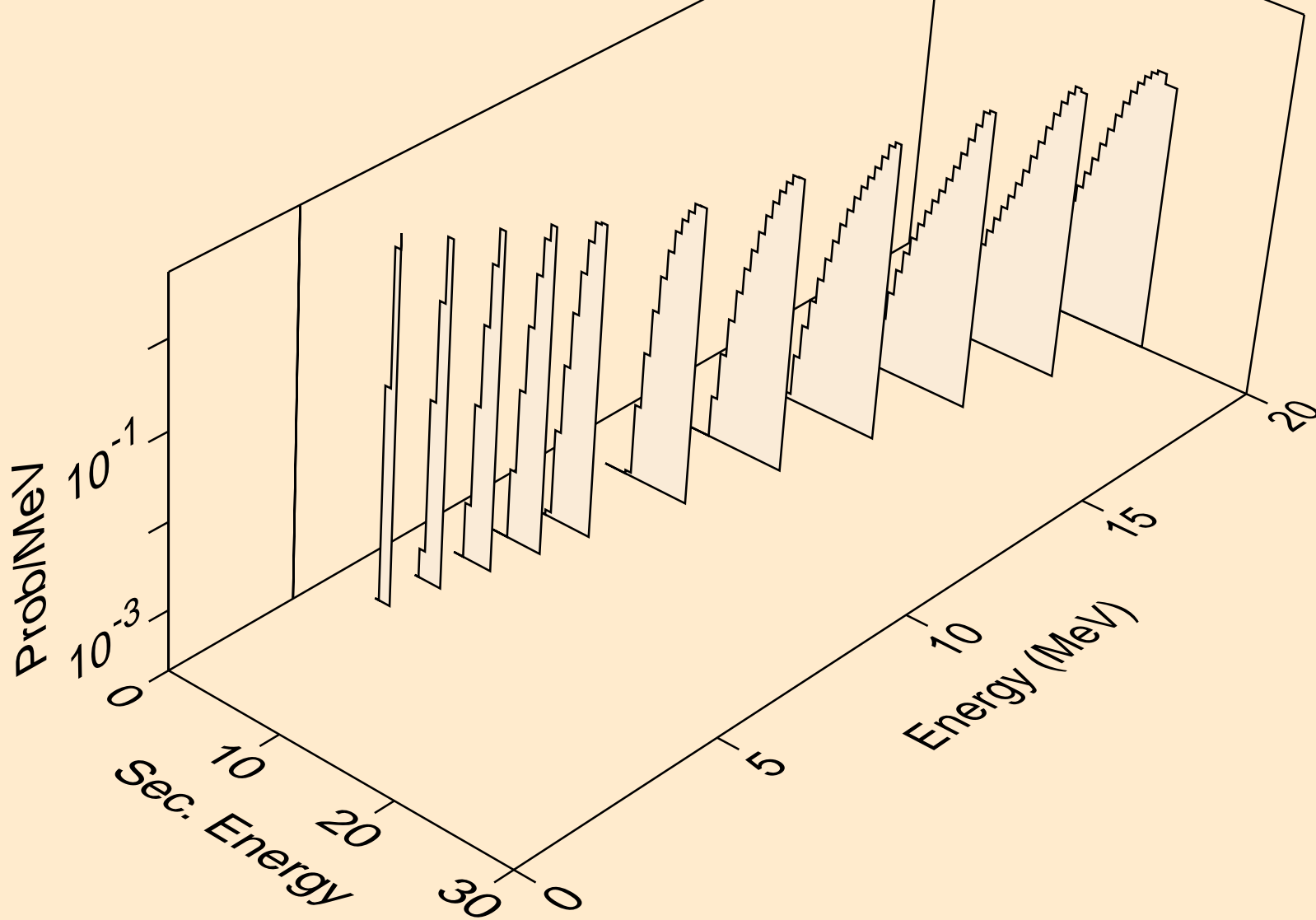Prob/MeV

10^{-1}

10^{-3}

Sec. Energy

Energy (MeV)

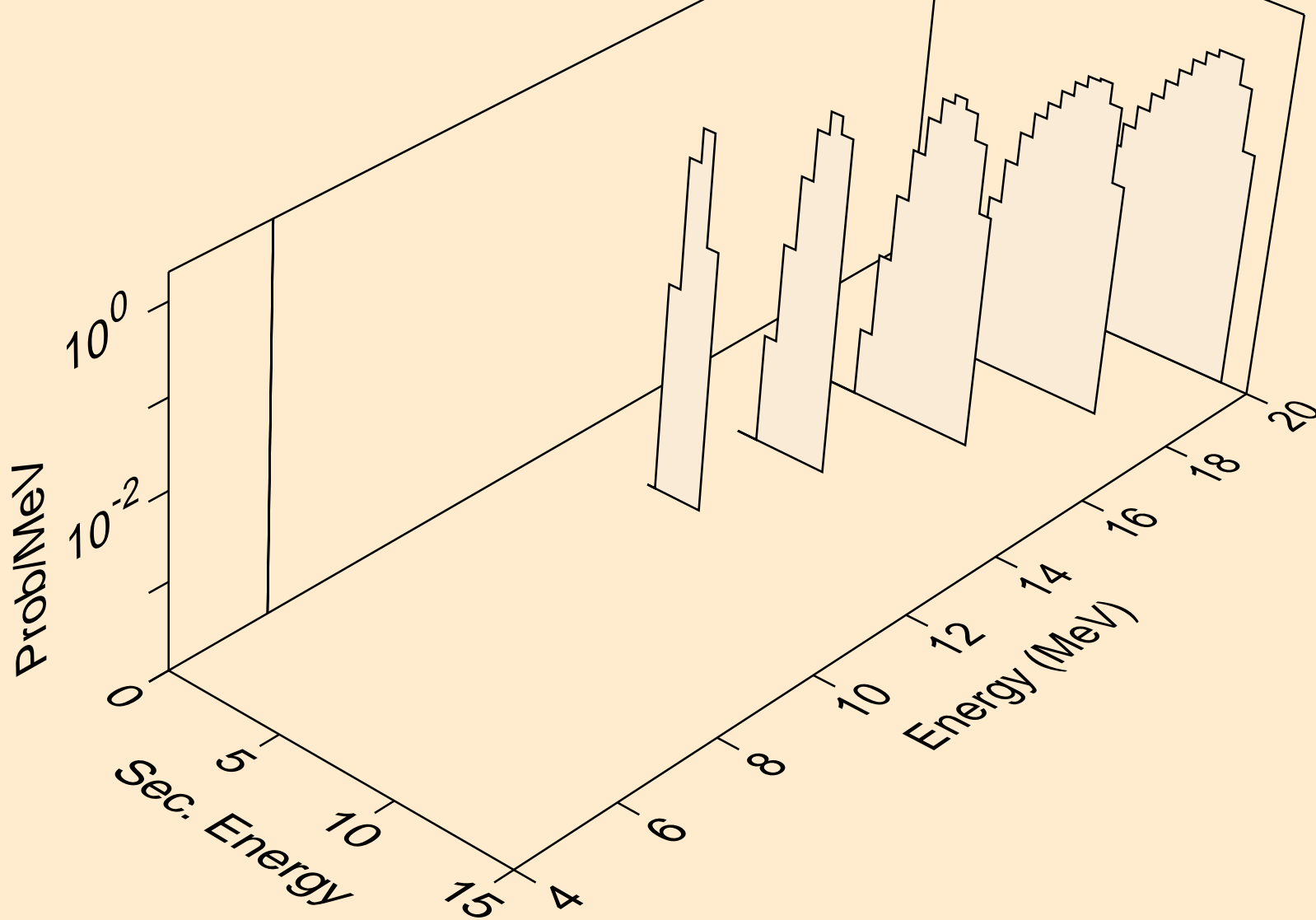71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5

he3s from (n,x)

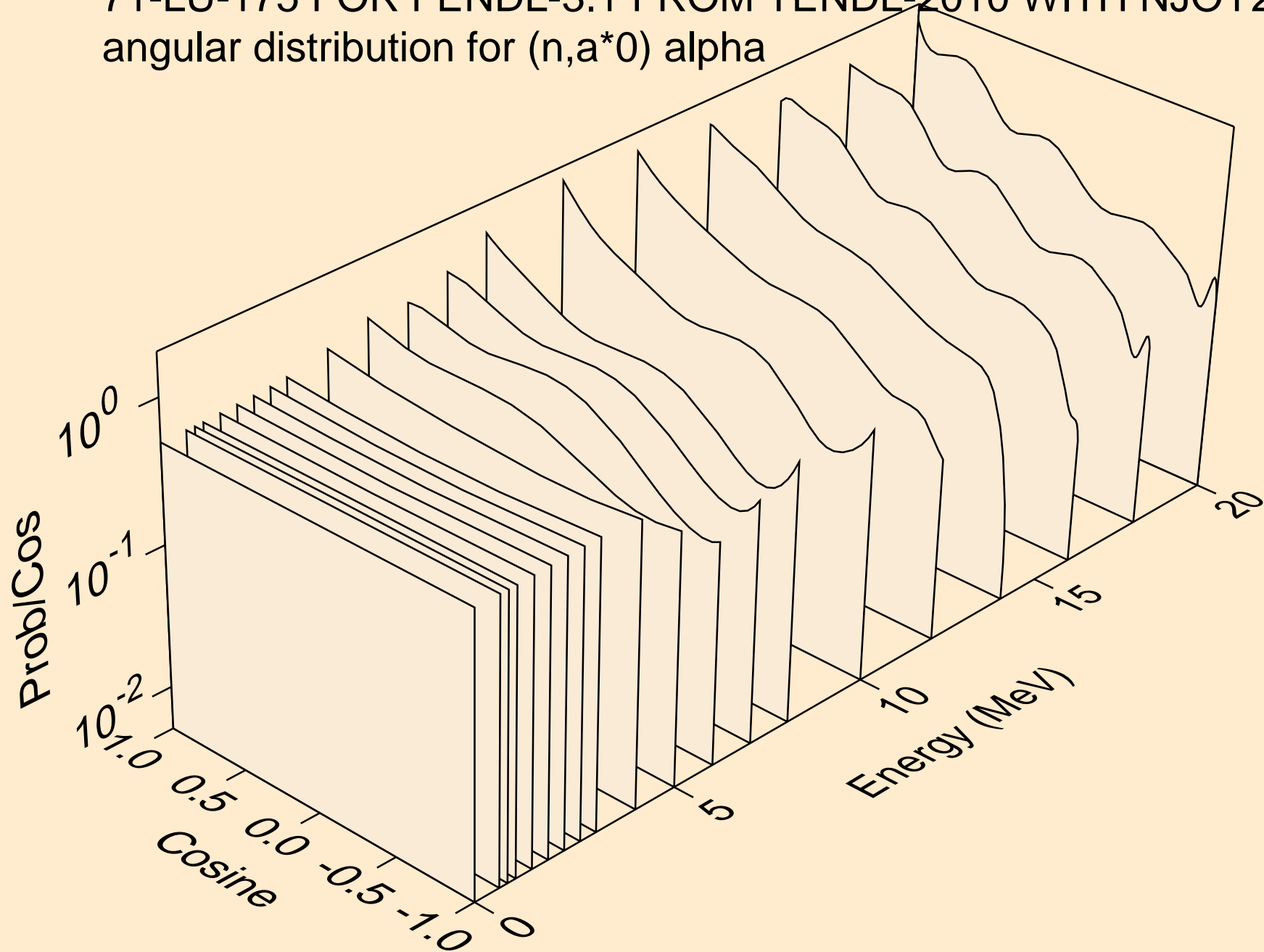71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5

alphas from (n,x)

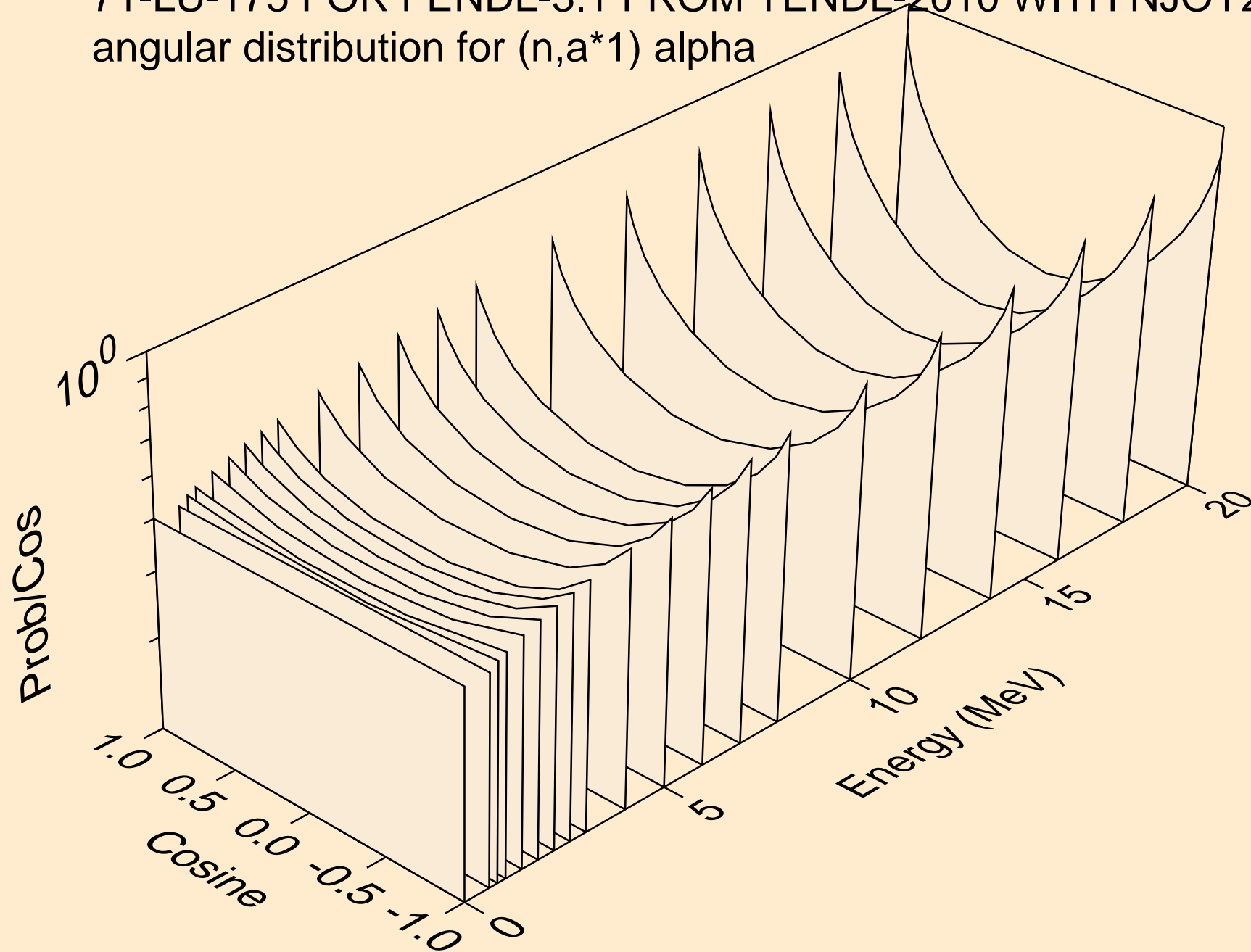71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5

alphas from (n,n*)a

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
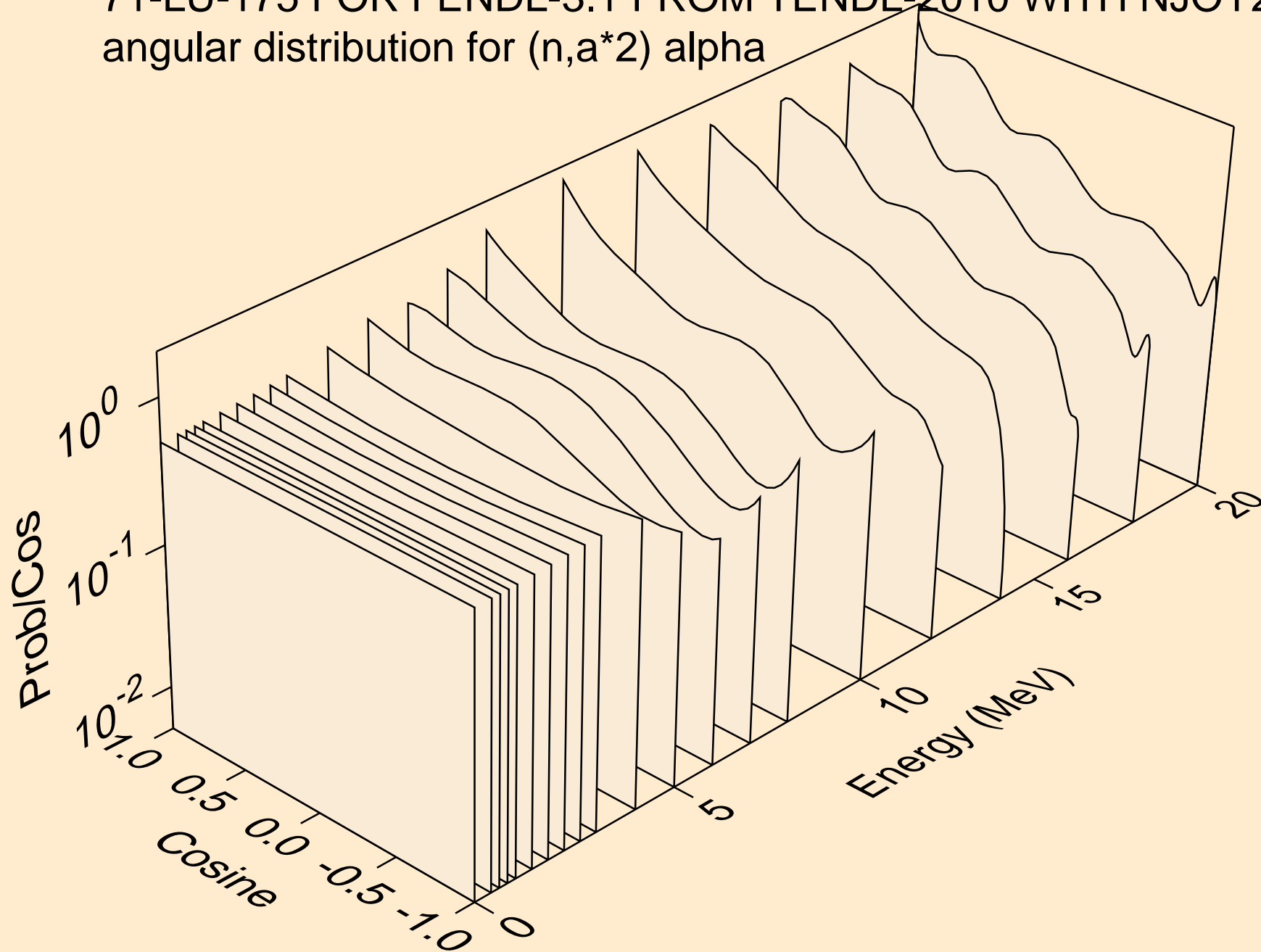
alphas from (n,2n)a

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5

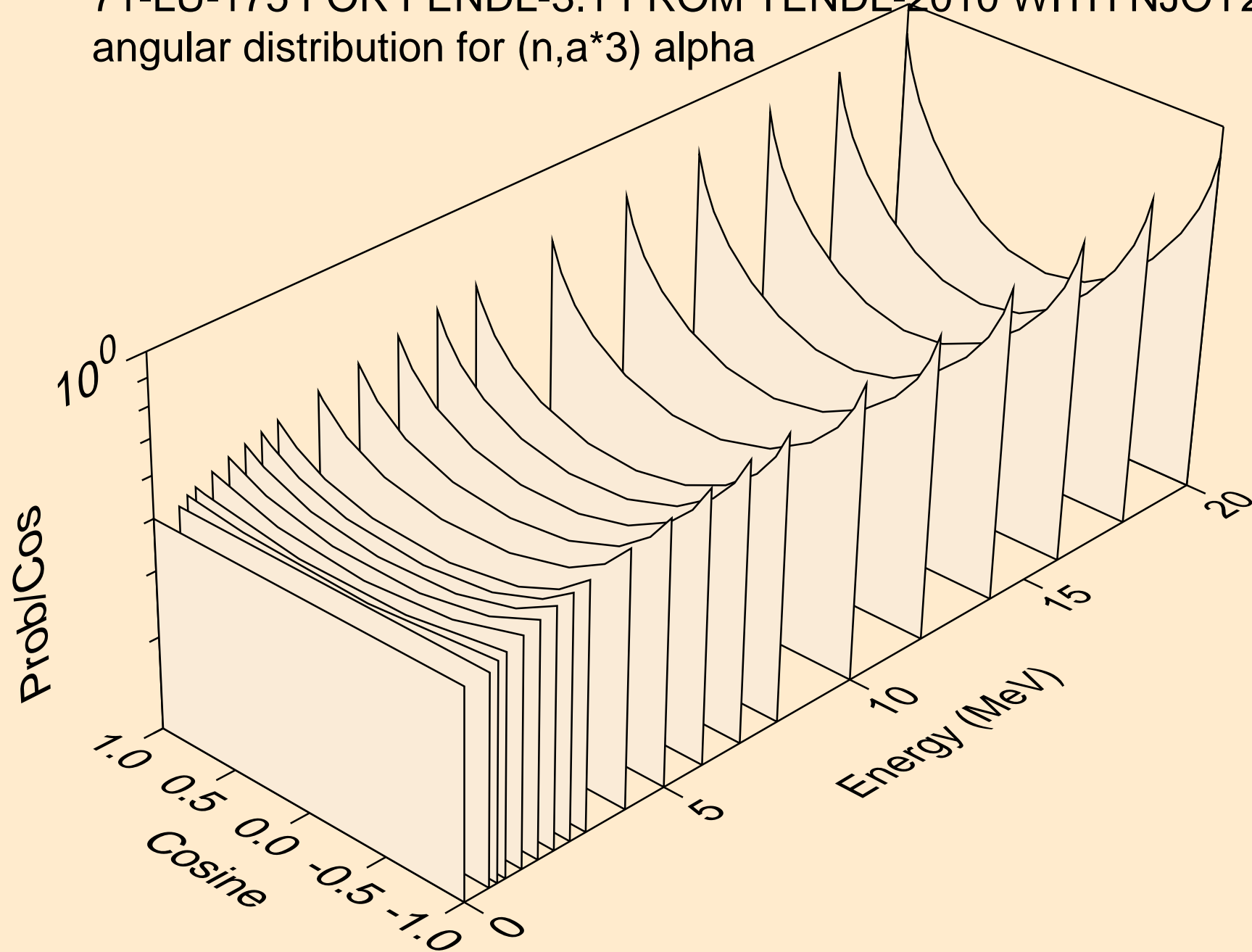angular distribution for (n,a*0) alpha

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
angular distribution for (n,a*1) alpha

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
angular distribution for (n,a*2) alpha

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
angular distribution for (n,a*3) alpha
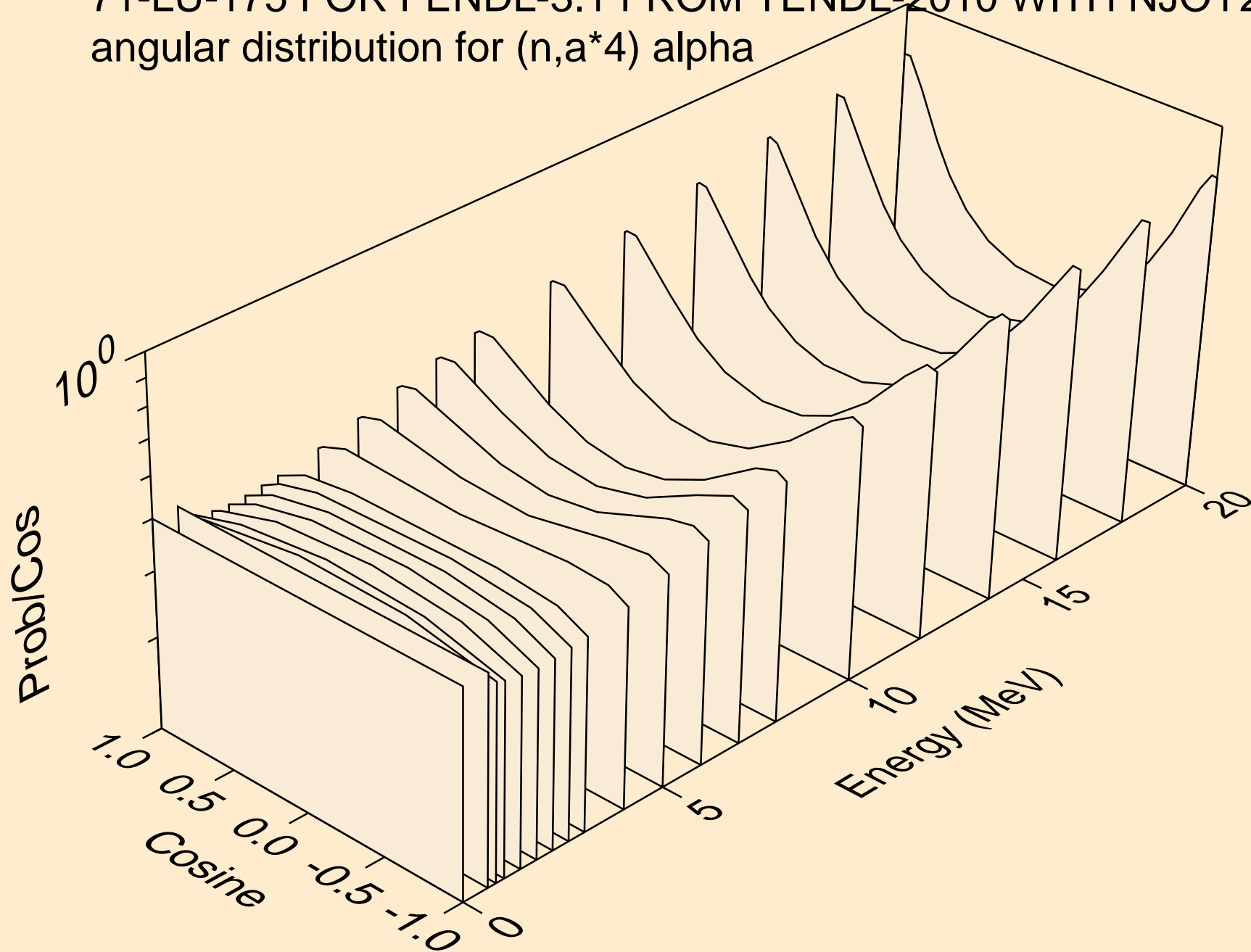
71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5

angular distribution for (n,a*4) alpha
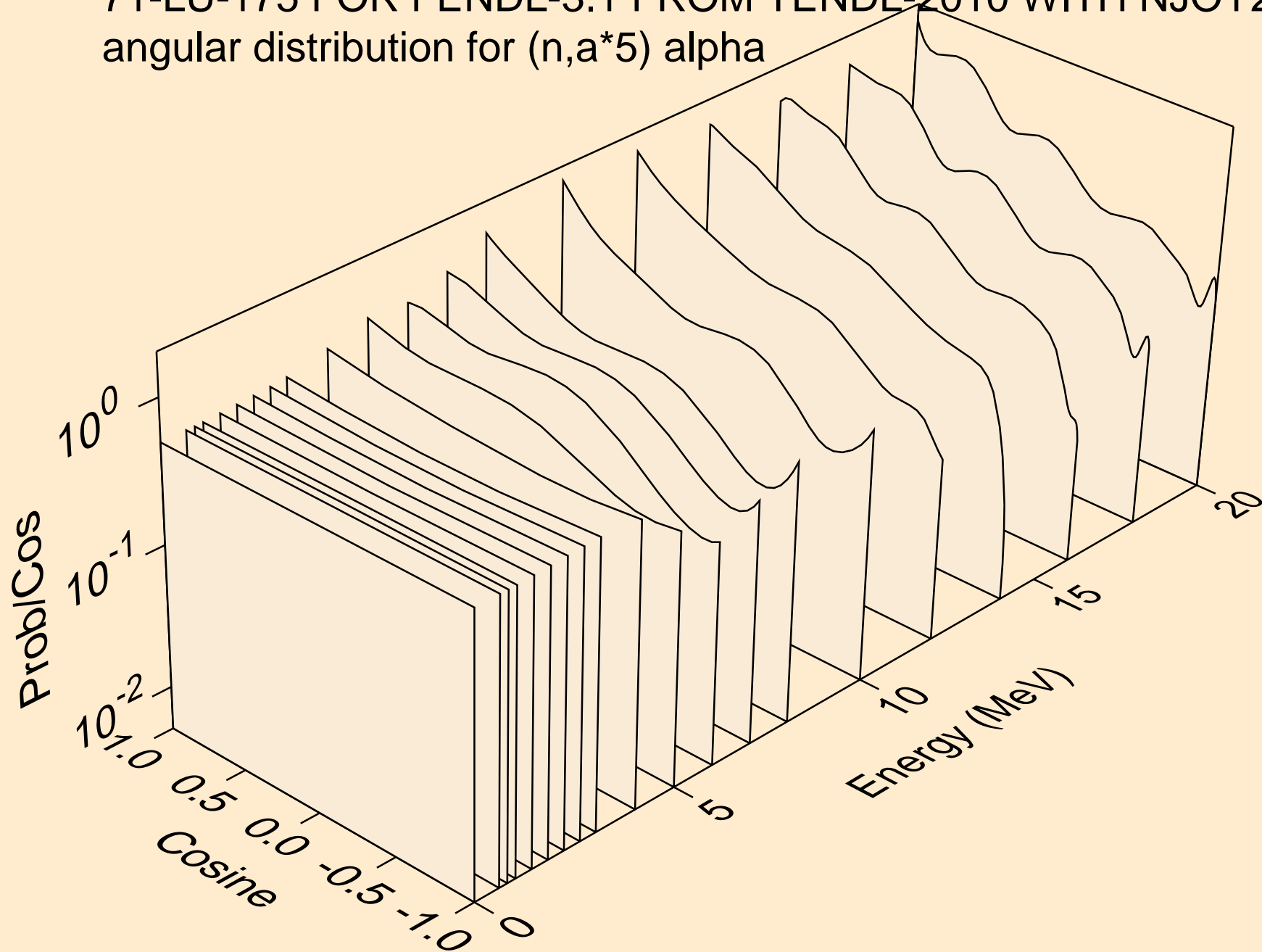
71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5

angular distribution for (n,a*5) alpha
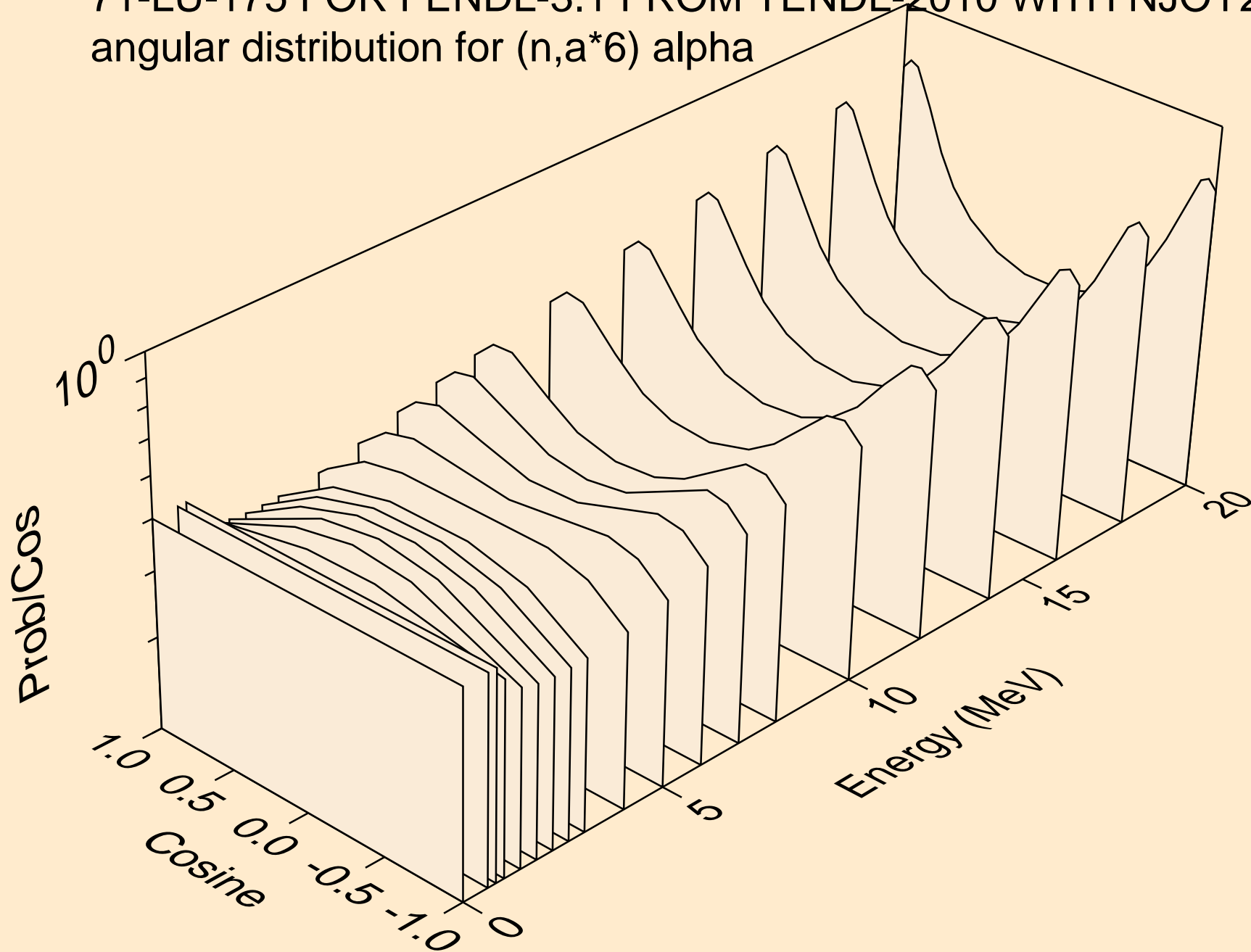
71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5

angular distribution for (n,a*6) alpha
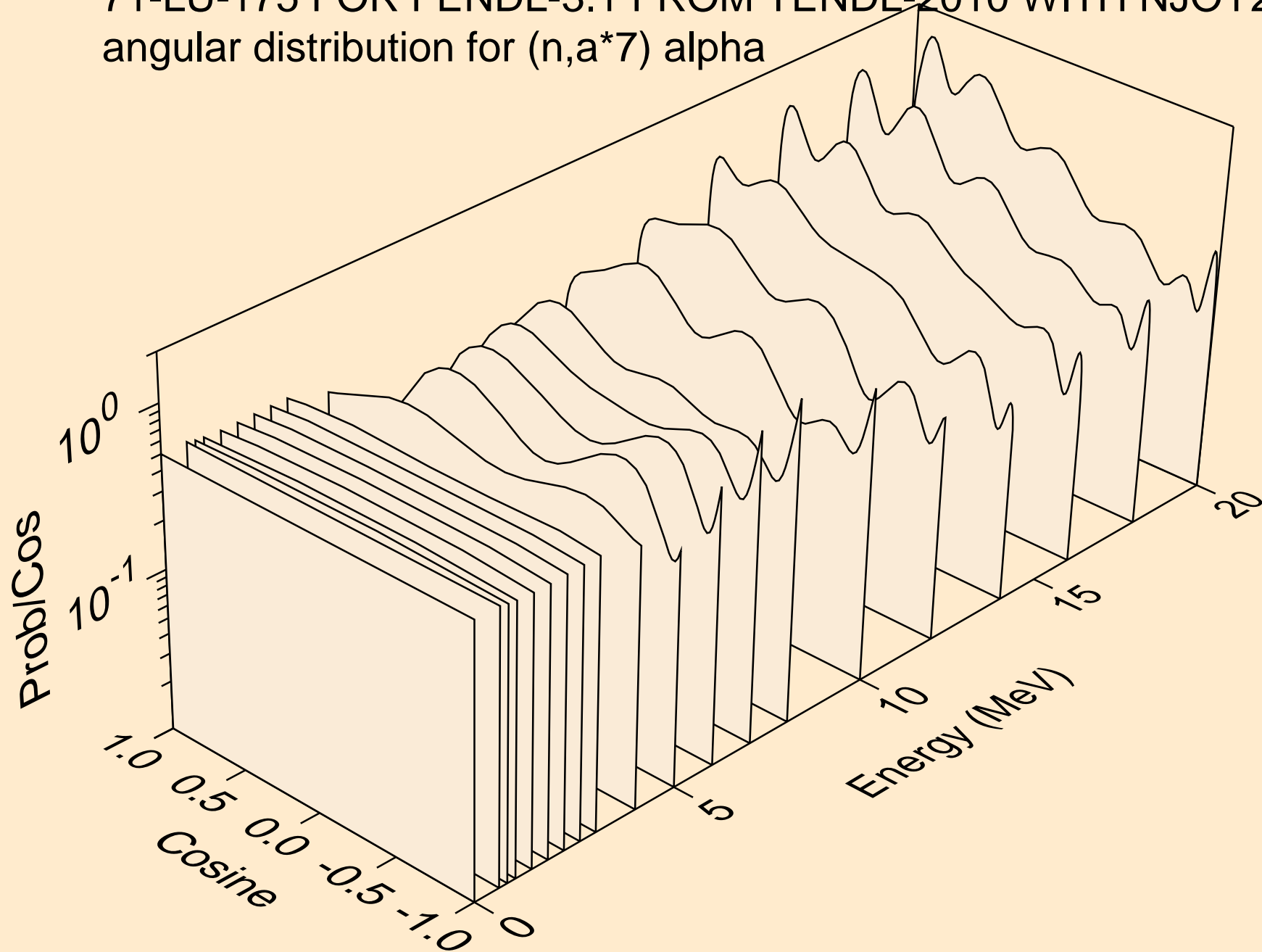
71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5

angular distribution for (n,a*7) alpha
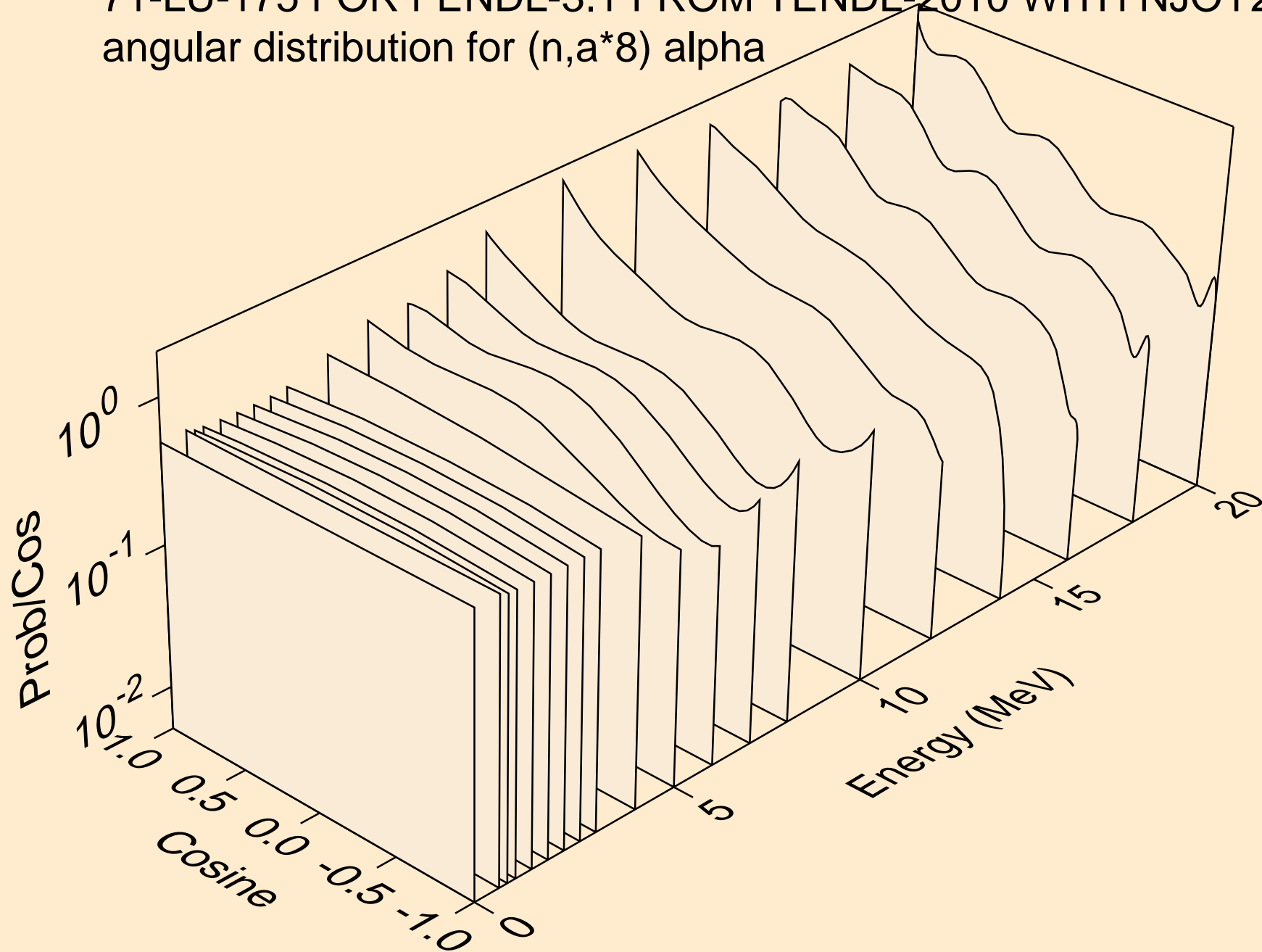
71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5
angular distribution for (n,a*8) alpha
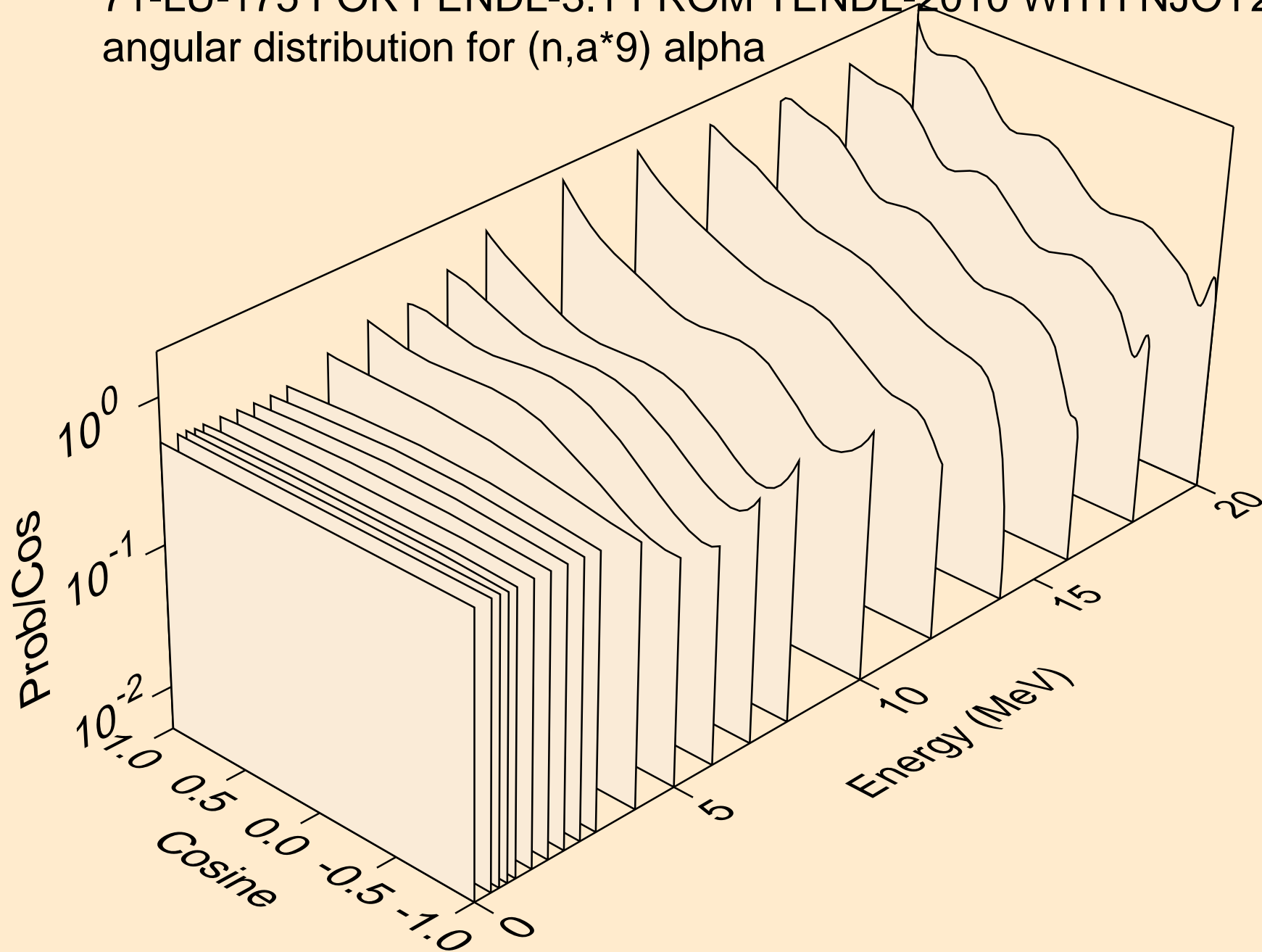
71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5

angular distribution for (n,a*9) alpha
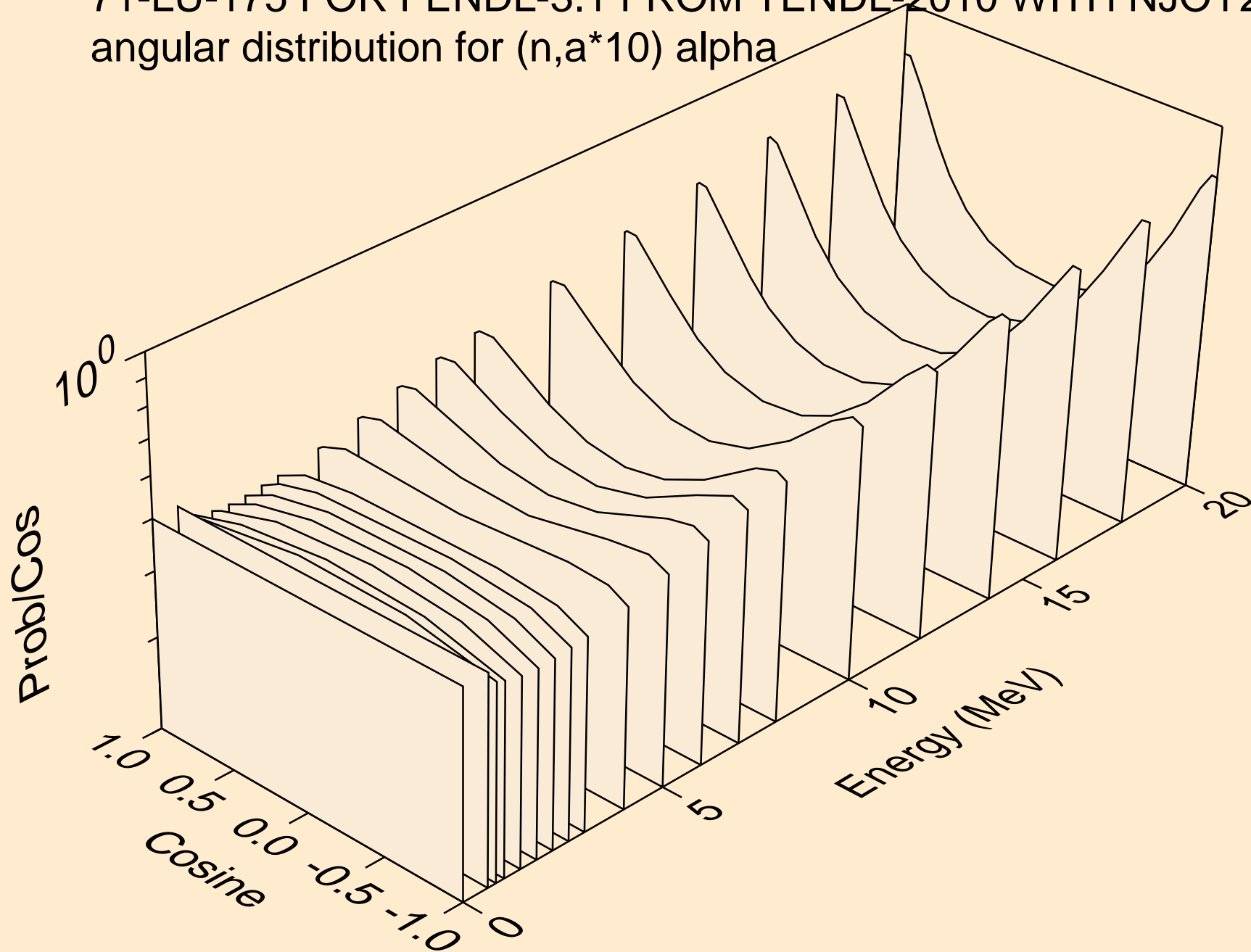
71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5

angular distribution for (n,a*10) alpha

71-LU-175 FOR FENDL-3.1 FROM TENDL-2010 WITH NJOY2012.5

alphas from (n,a*c)