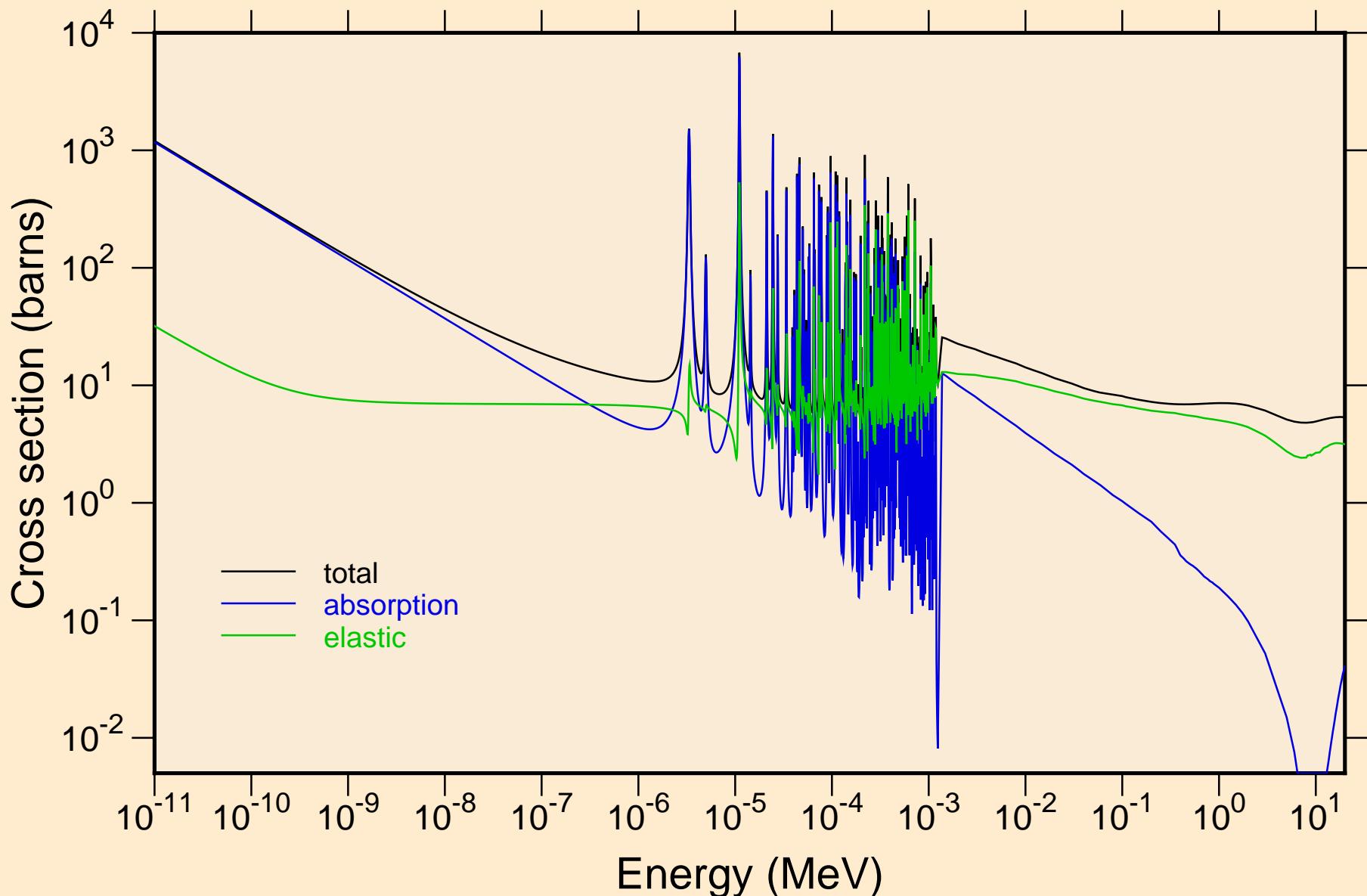
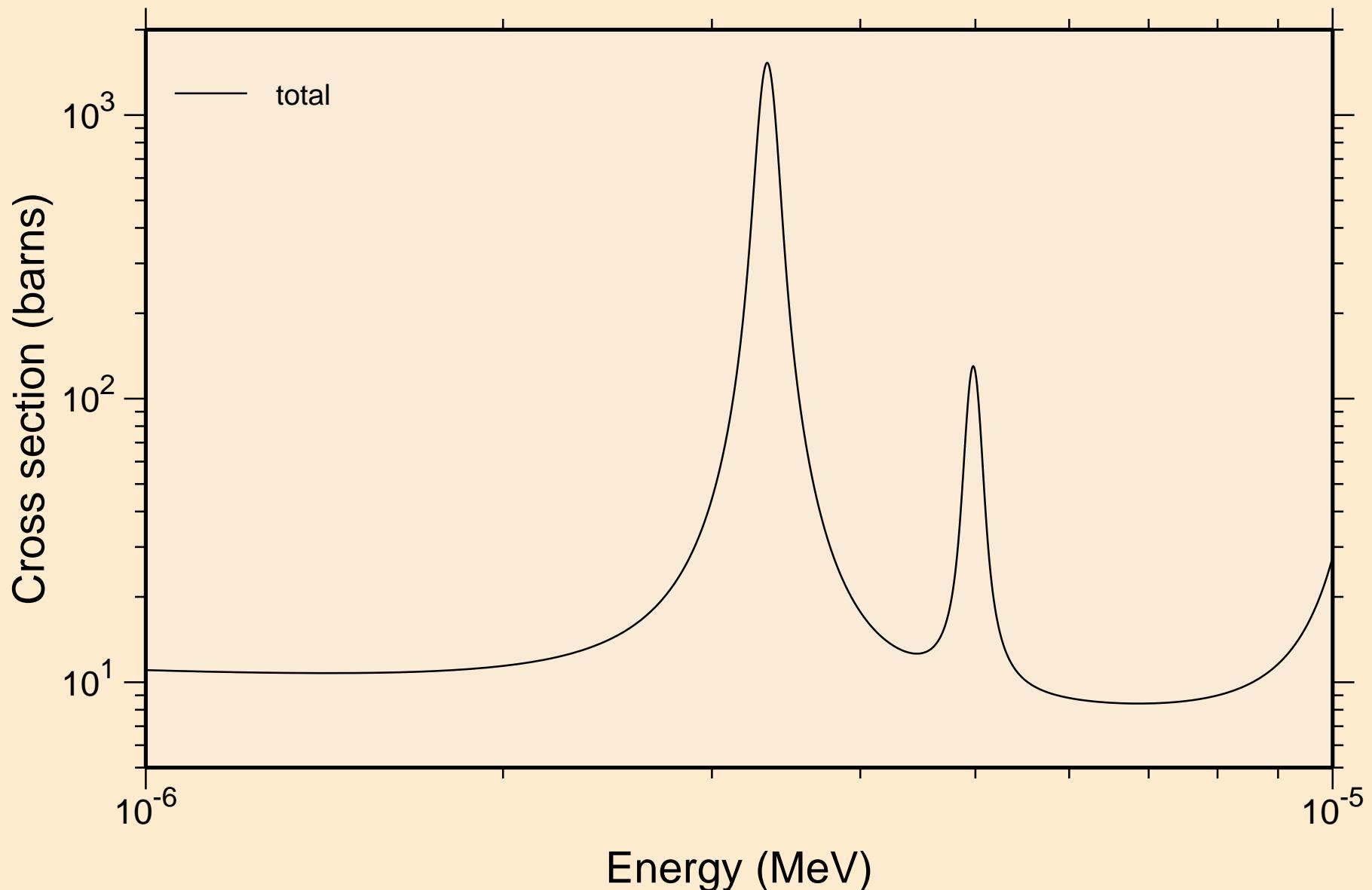


# ENDF/B-VII TB-159

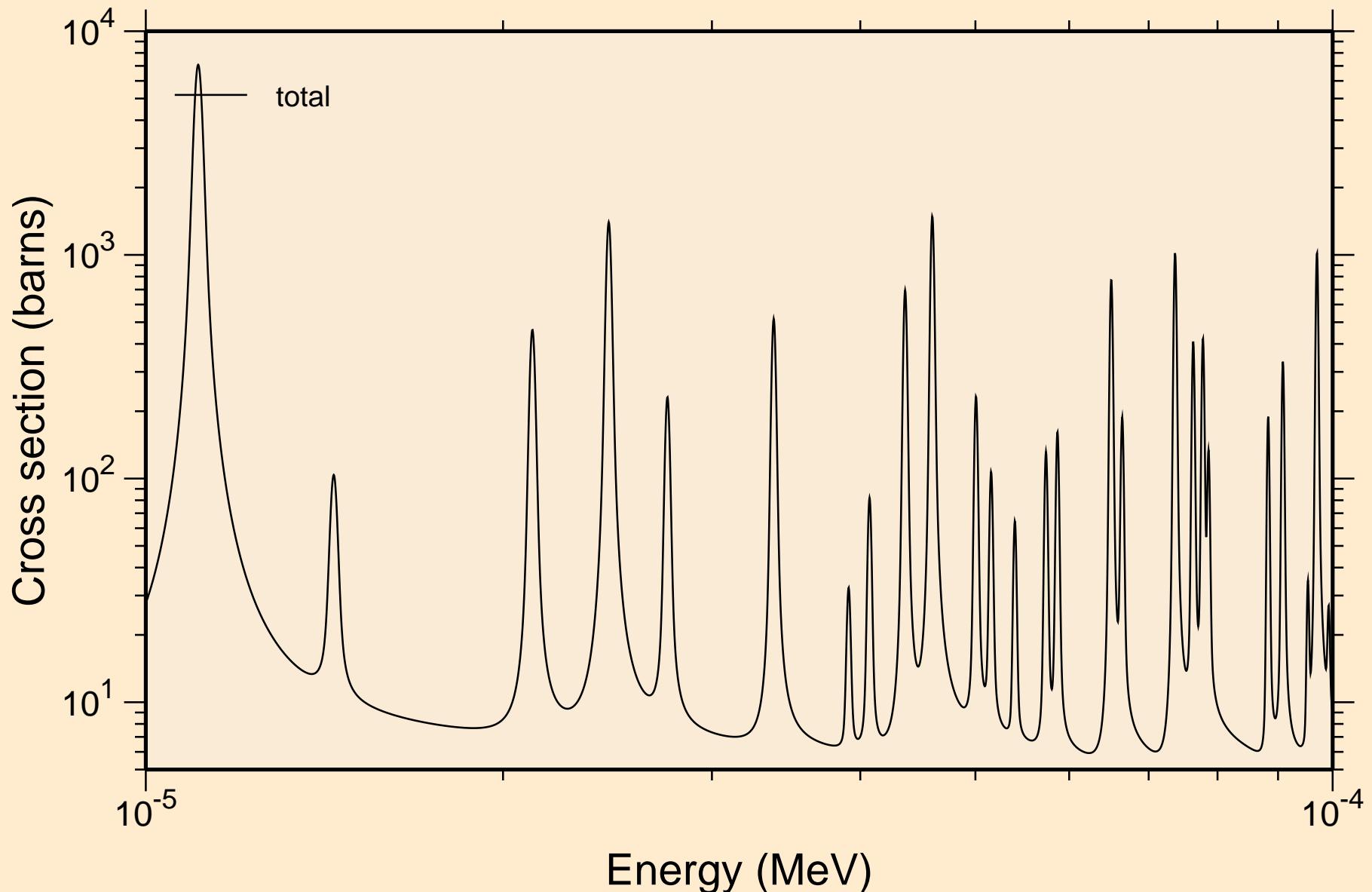
## Principal cross sections



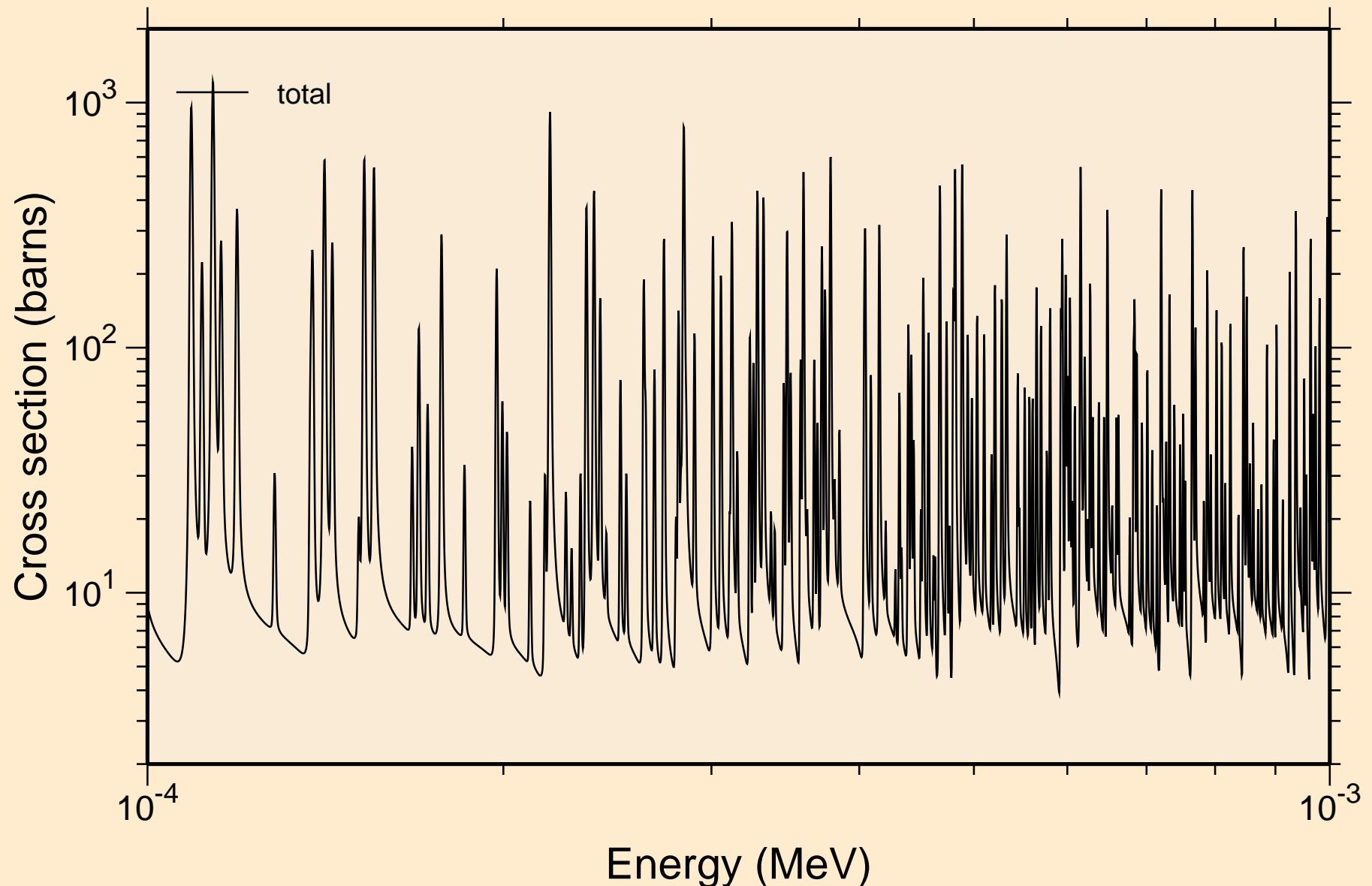
ENDF/B-VII TB-159  
resonance total cross section



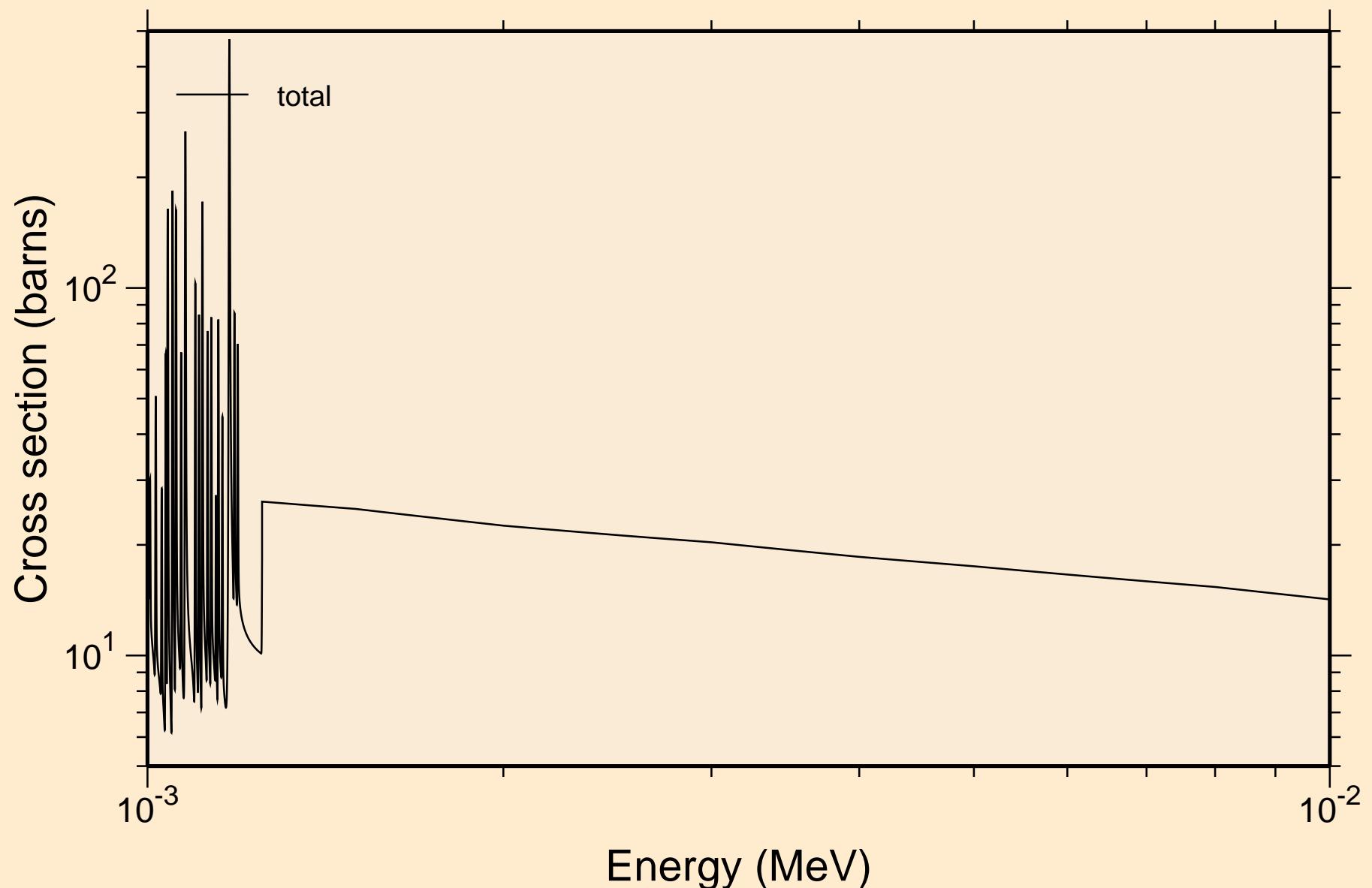
ENDF/B-VII TB-159  
resonance total cross section



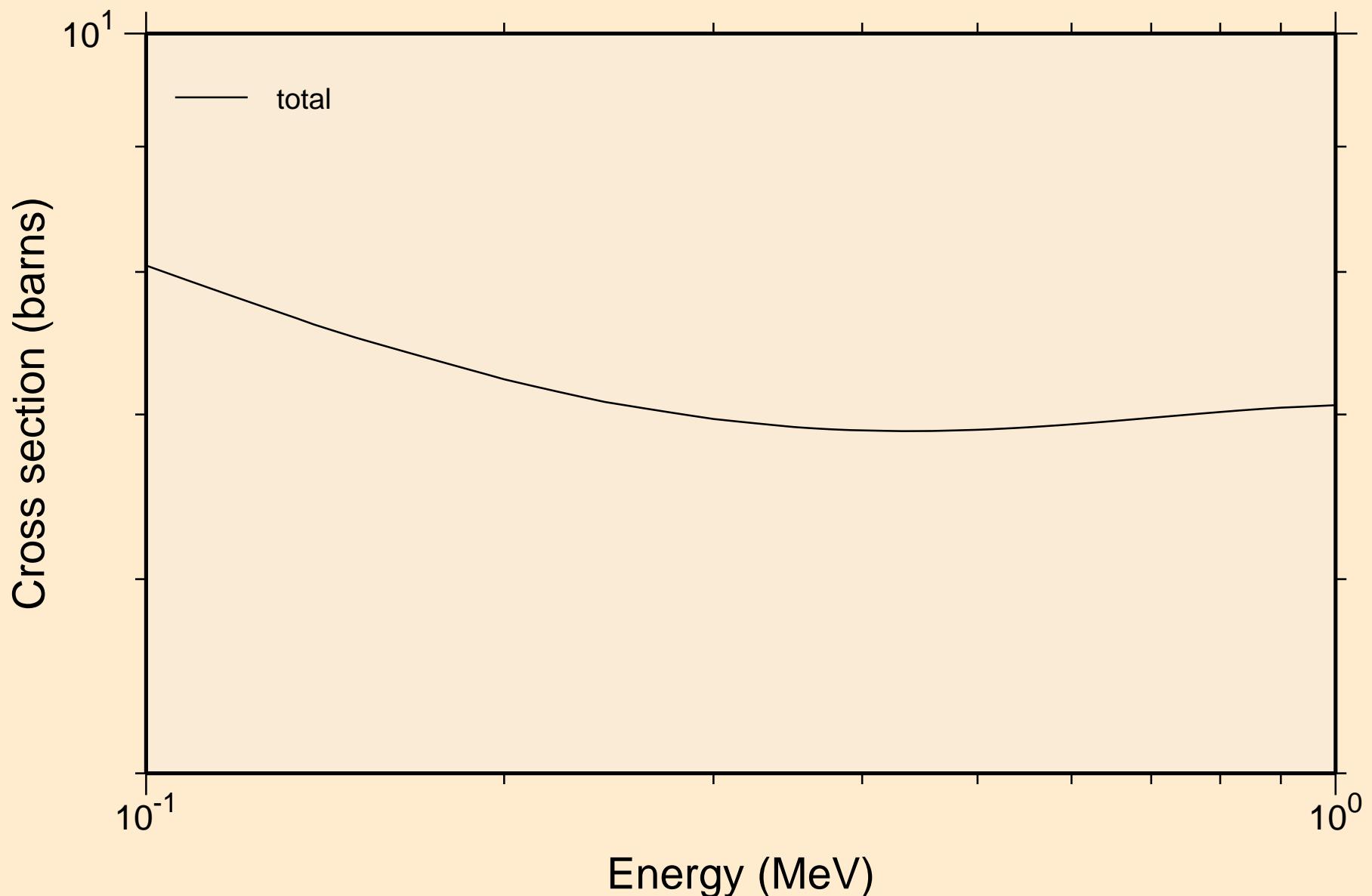
ENDF/B-VII TB-159  
resonance total cross section



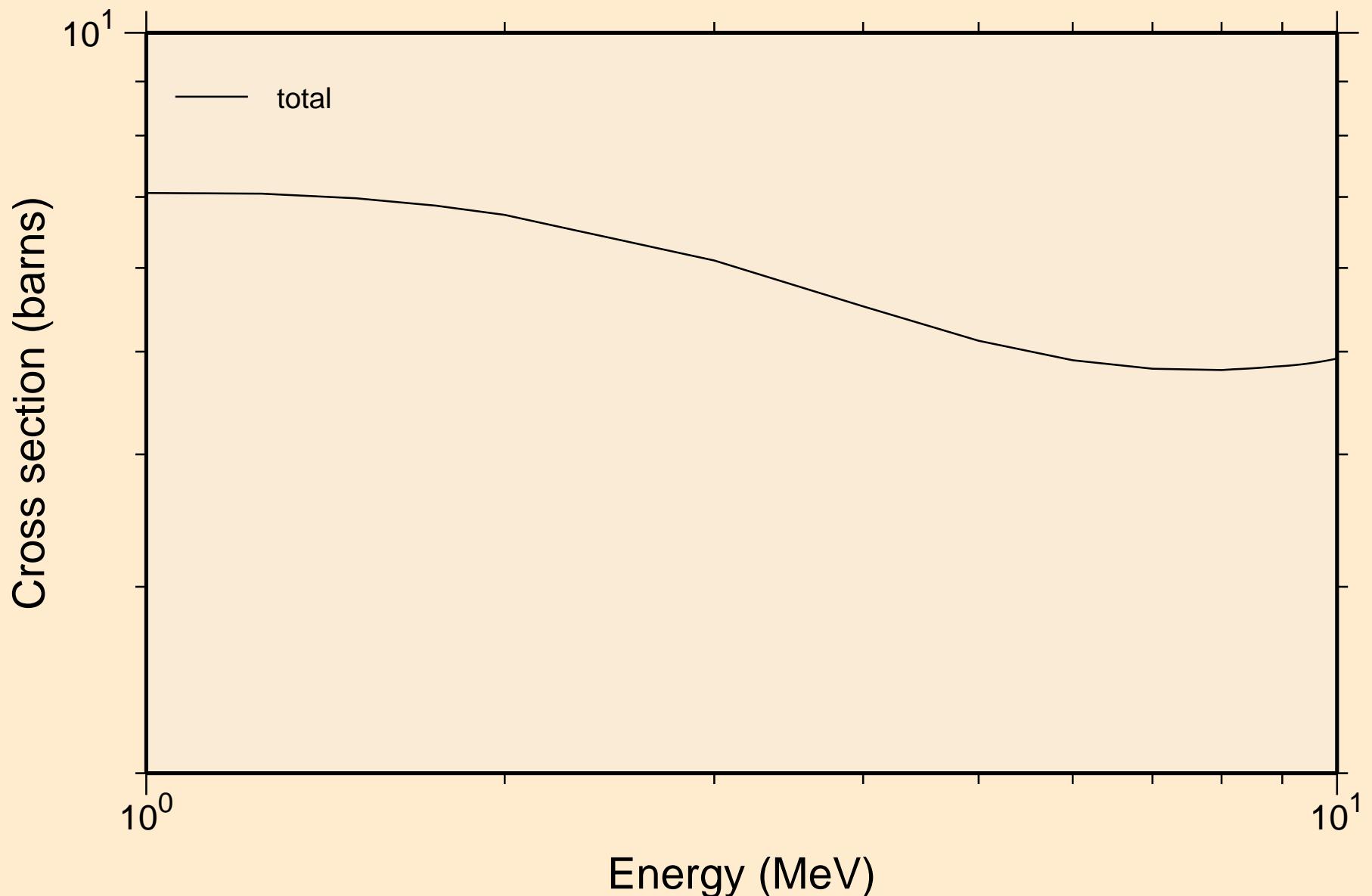
ENDF/B-VII TB-159  
resonance total cross section



ENDF/B-VII TB-159  
resonance total cross section

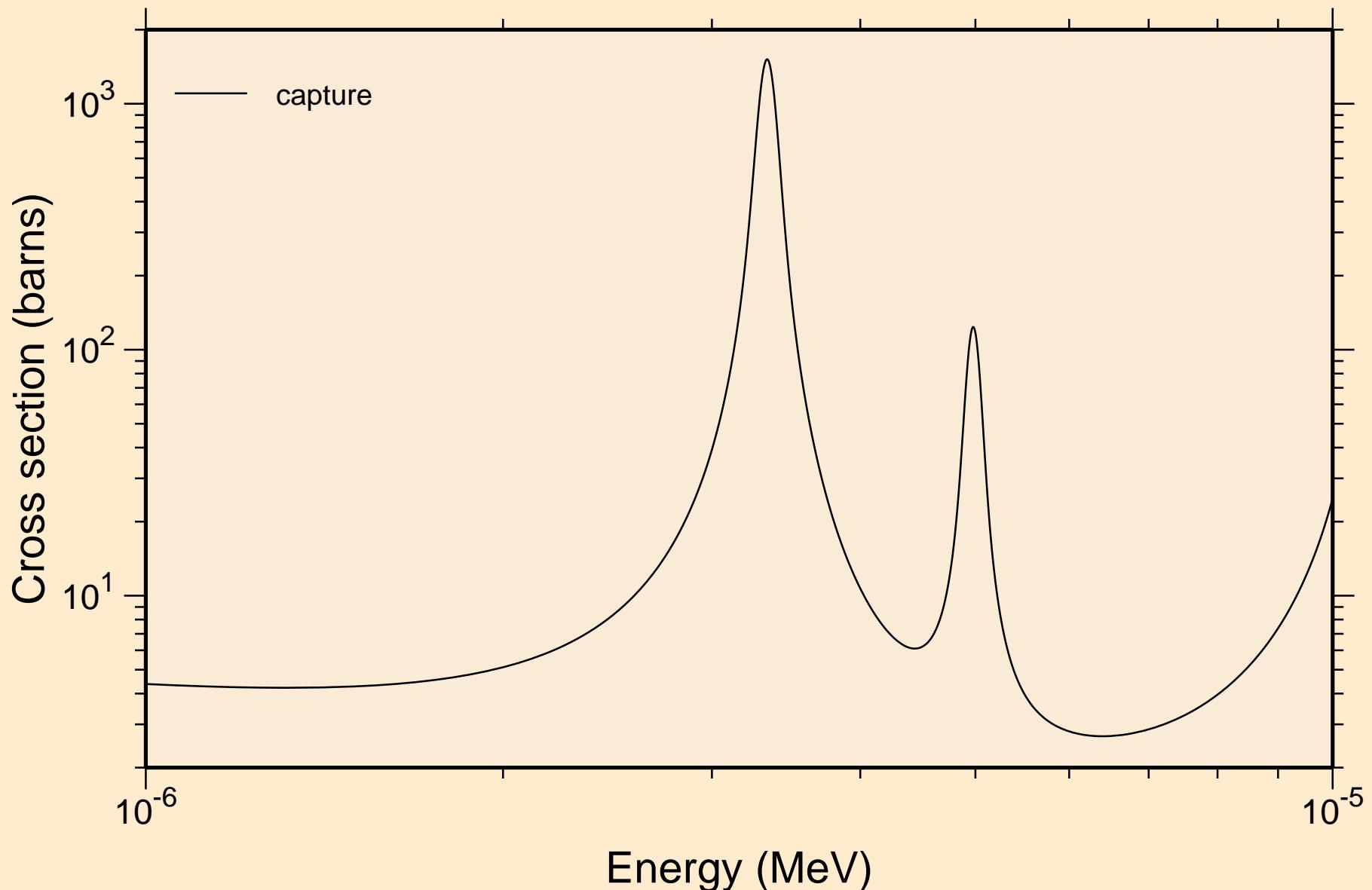


ENDF/B-VII TB-159  
resonance total cross section



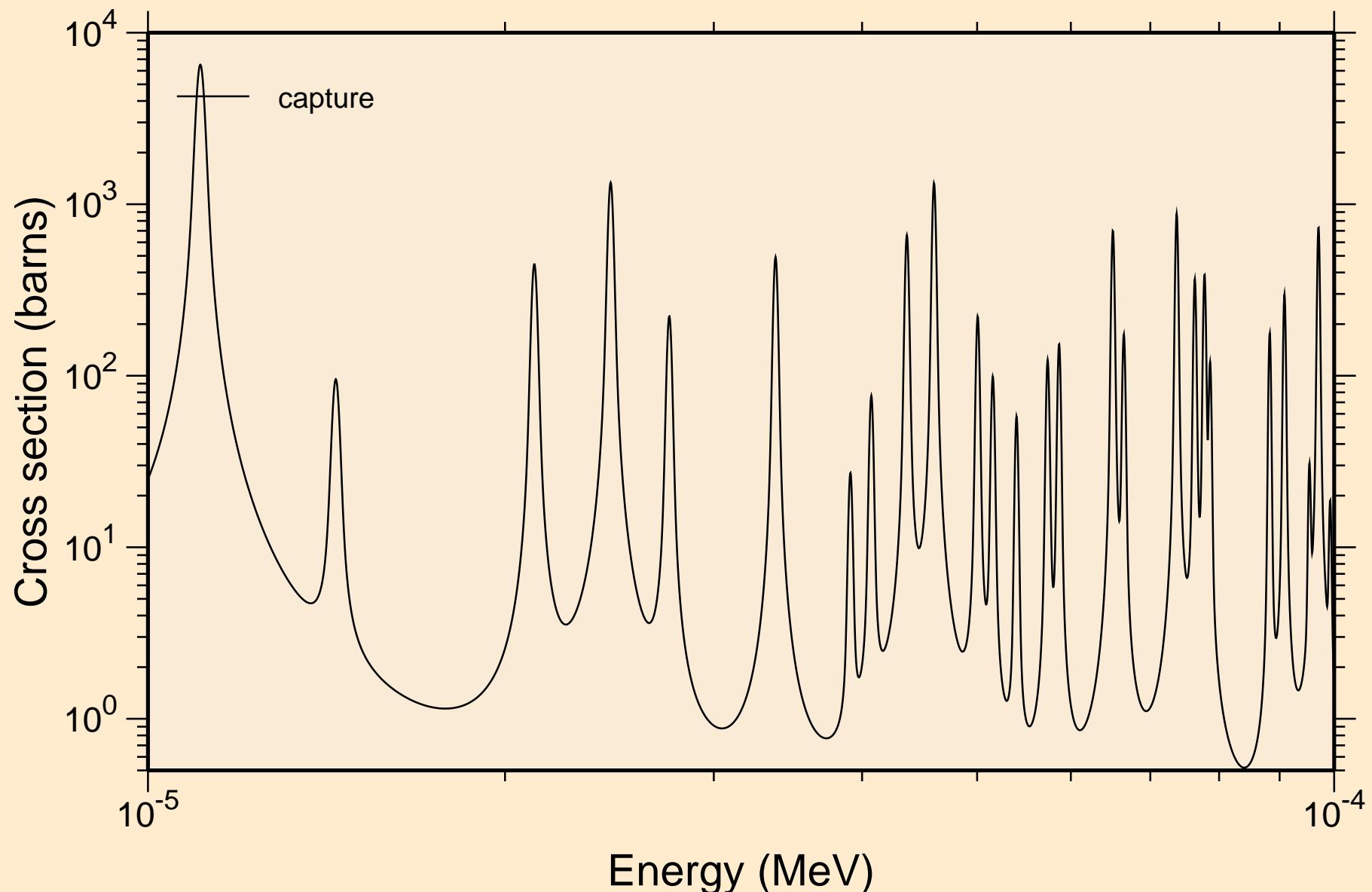
# ENDF/B-VII TB-159

## resonance absorption cross sections



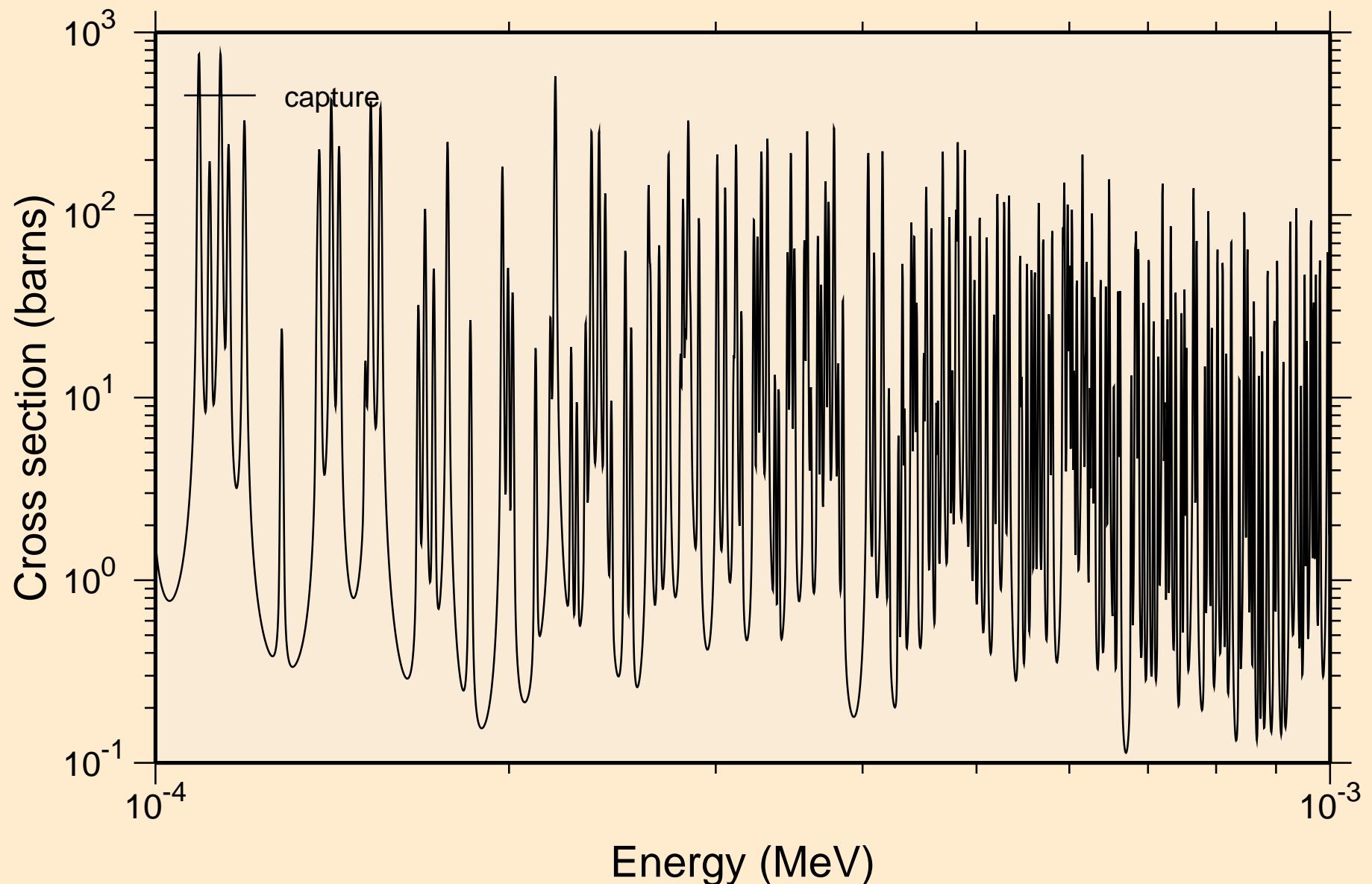
# ENDF/B-VII TB-159

## resonance absorption cross sections

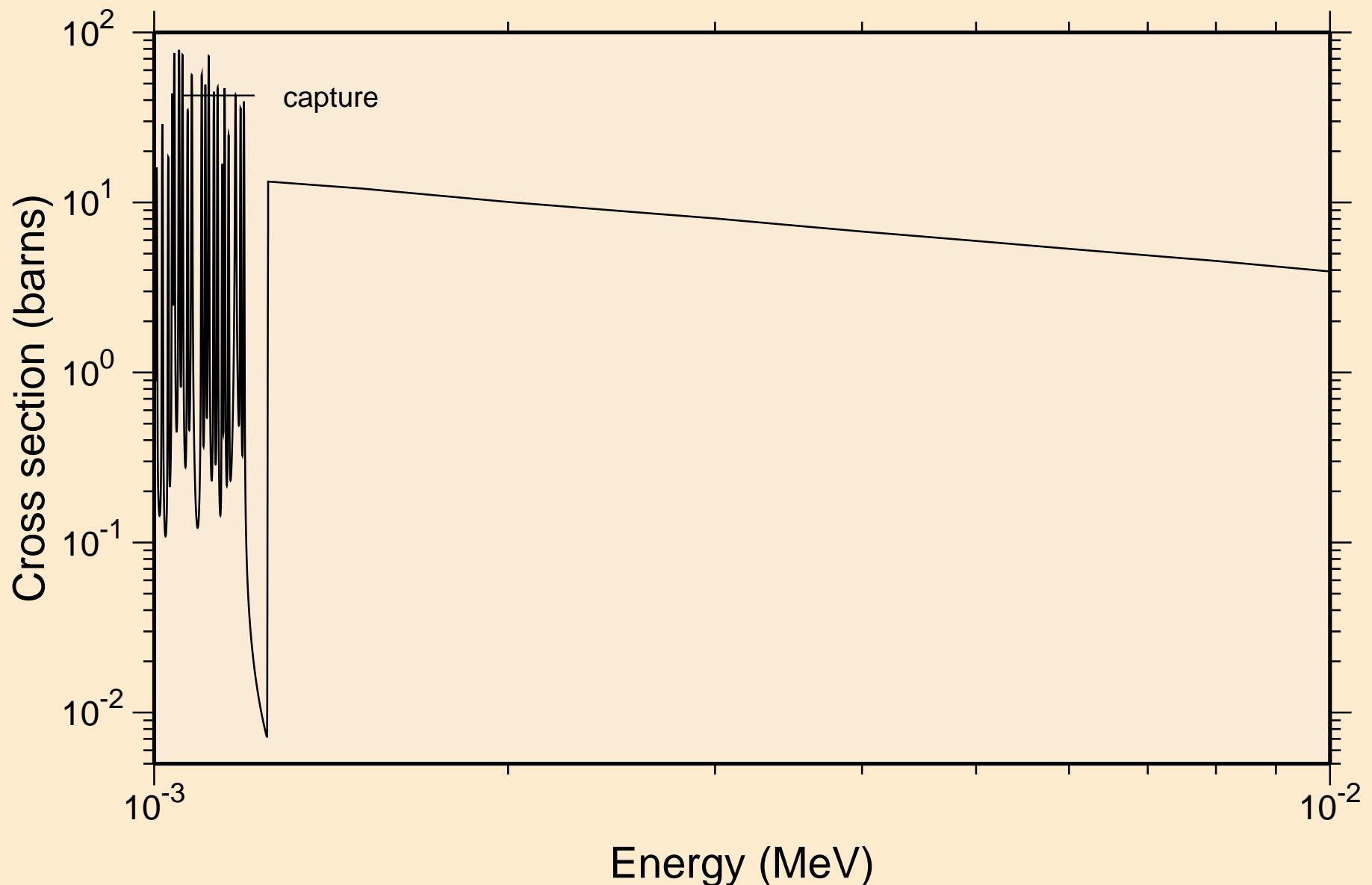


# ENDF/B-VII TB-159

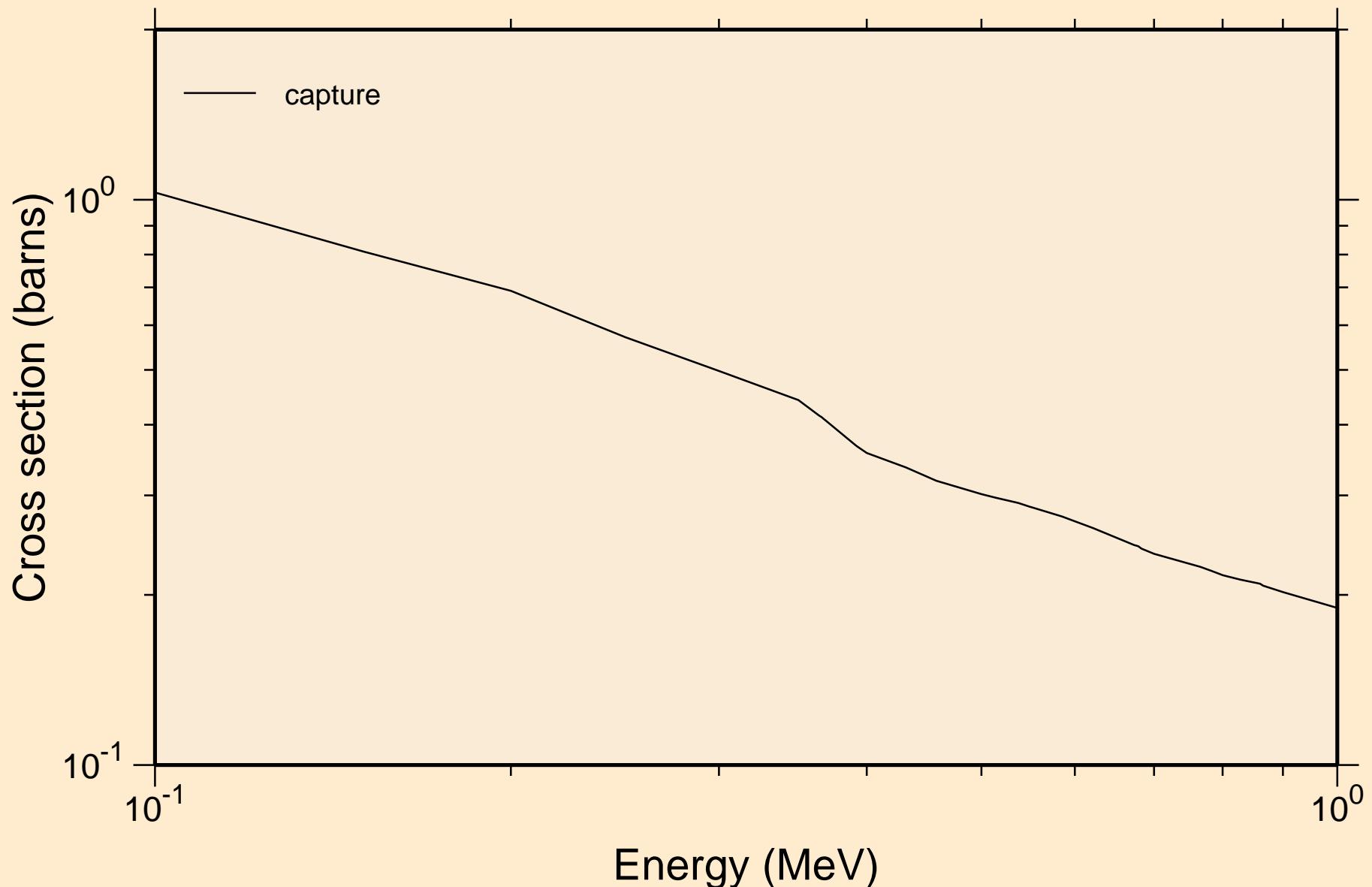
## resonance absorption cross sections



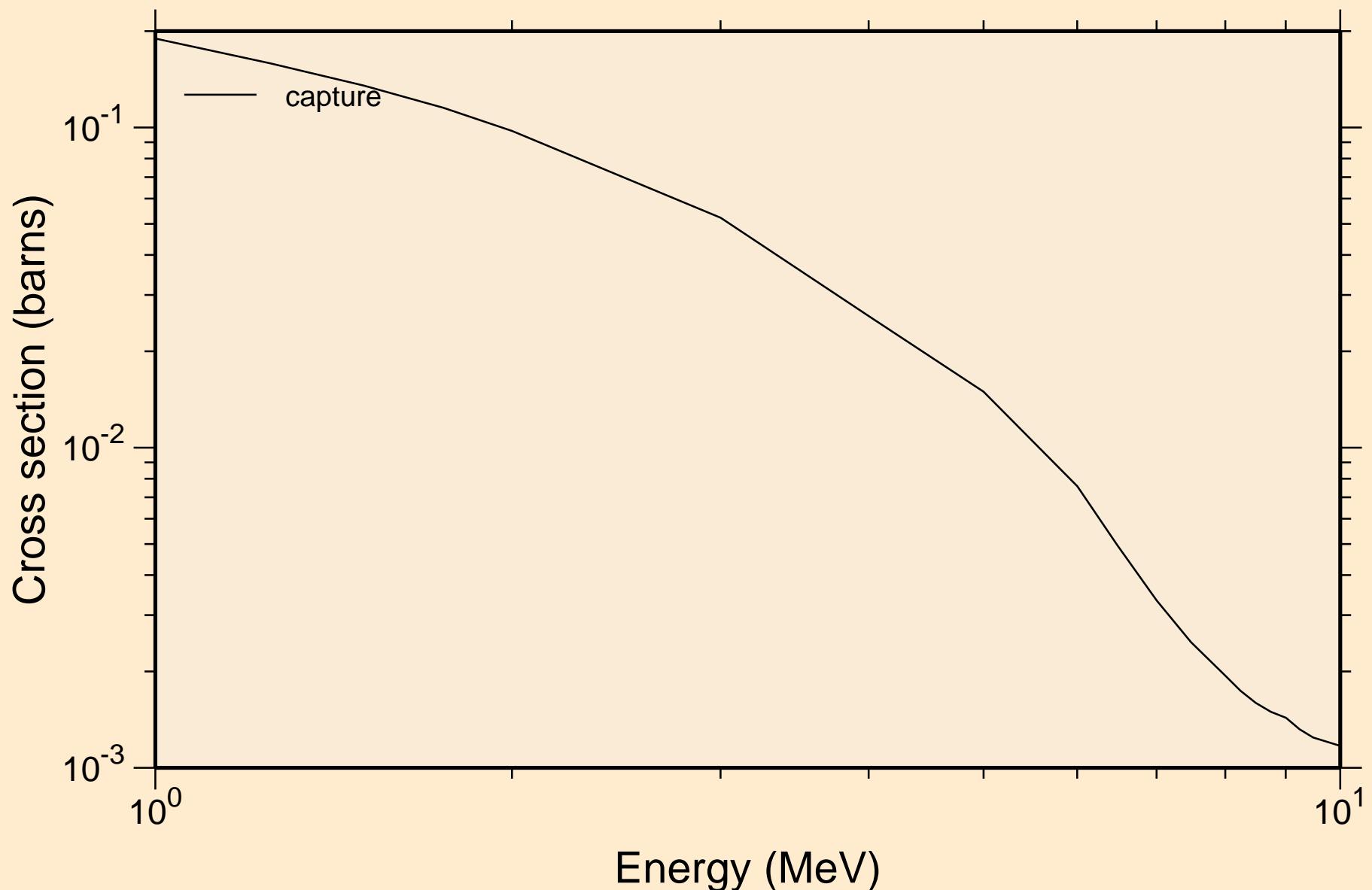
ENDF/B-VII TB-159  
resonance absorption cross sections



ENDF/B-VII TB-159  
resonance absorption cross sections

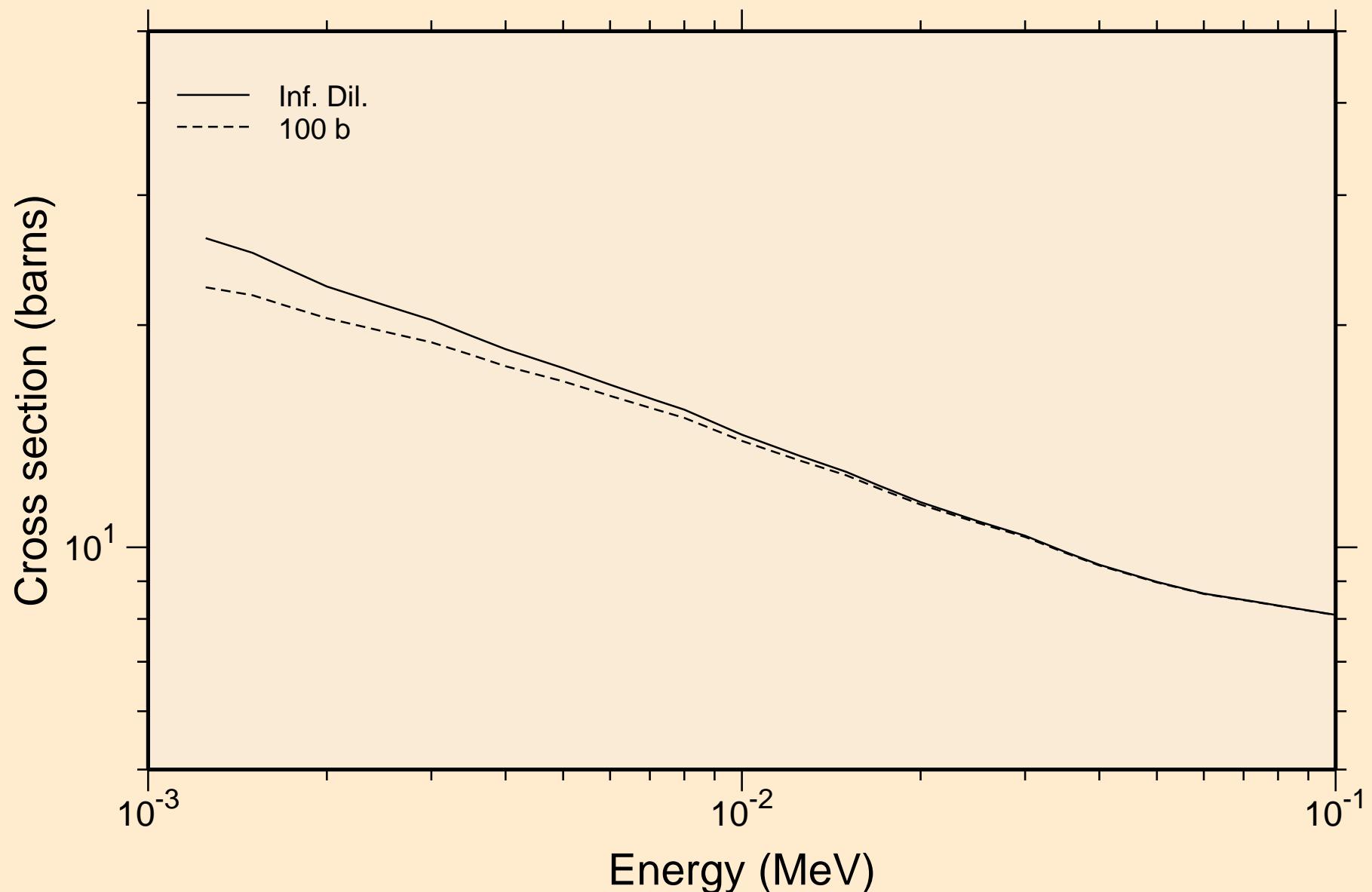


ENDF/B-VII TB-159  
resonance absorption cross sections



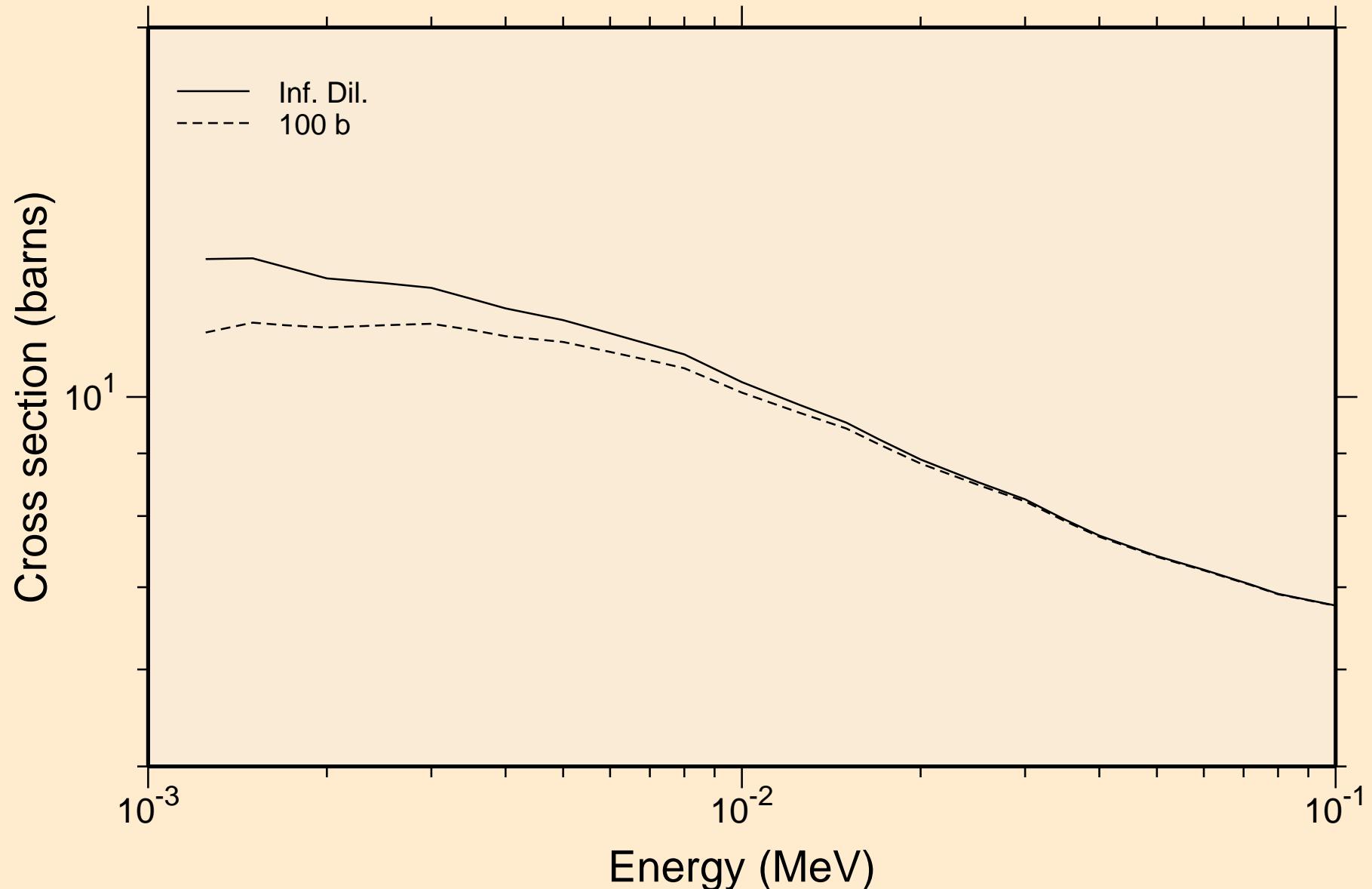
# ENDF/B-VII TB-159

## UR total cross section

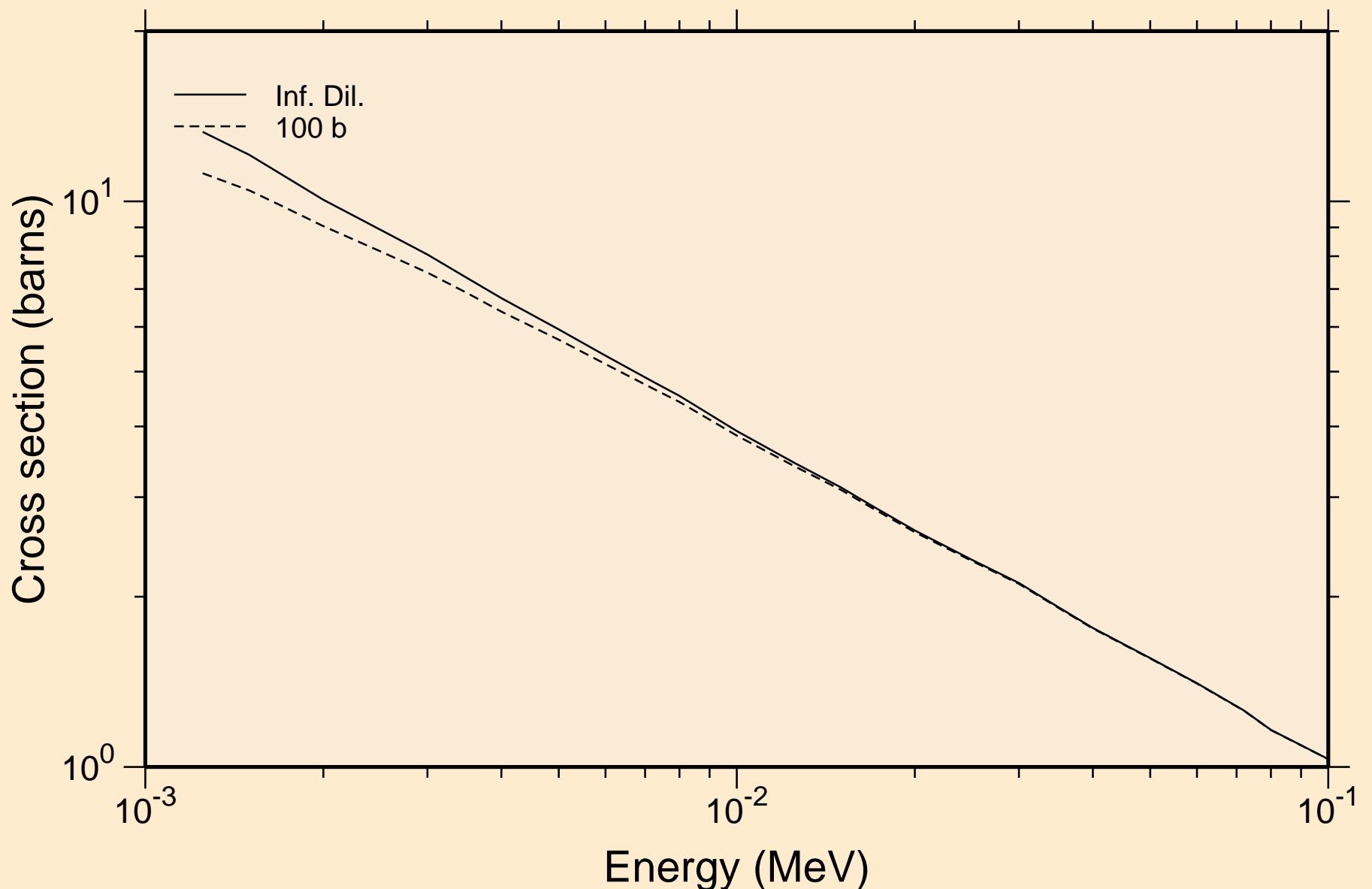


# ENDF/B-VII TB-159

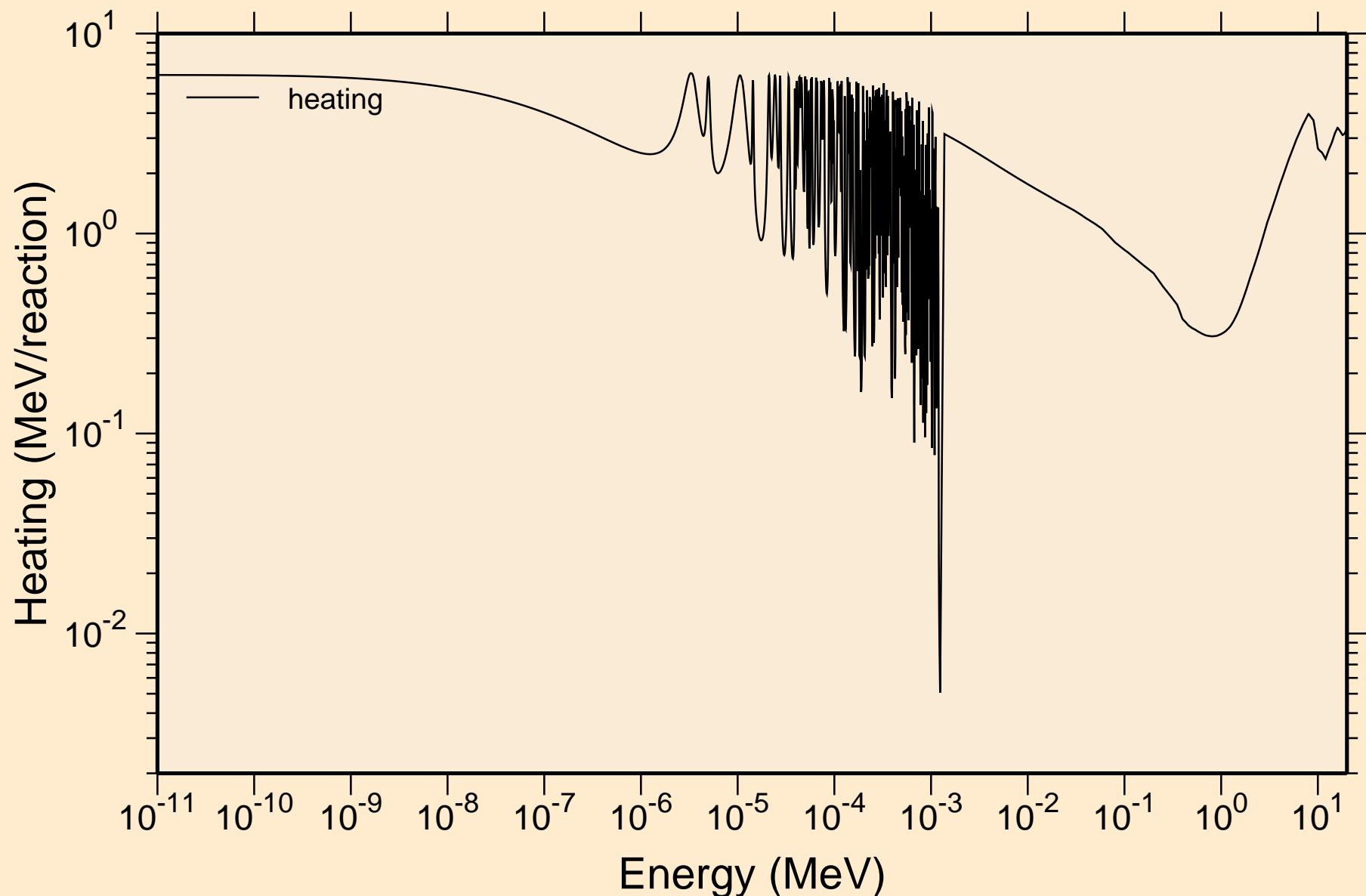
## UR elastic cross section



ENDF/B-VII TB-159  
UR capture cross section

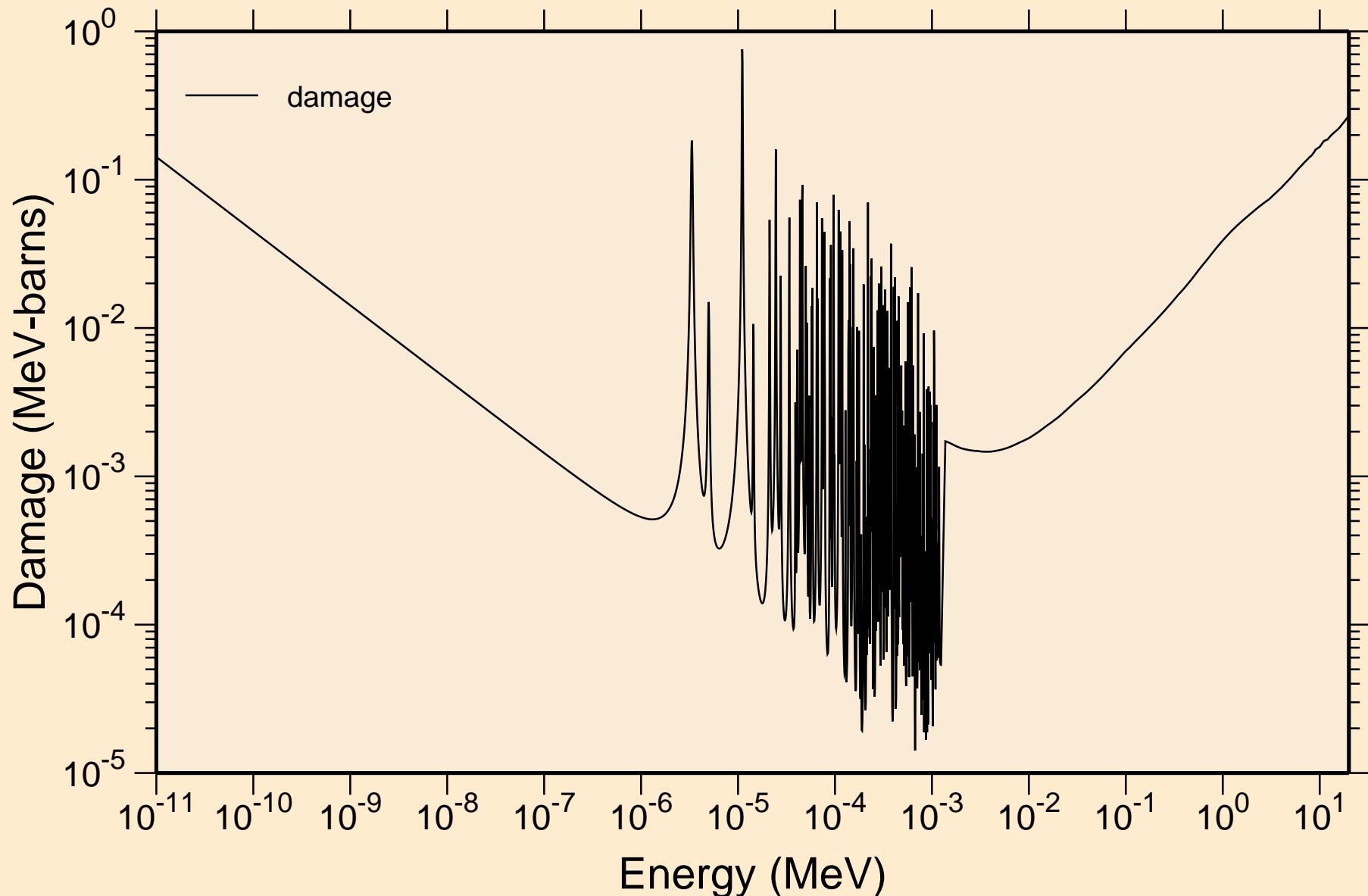


ENDF/B-VII TB-159  
Heating

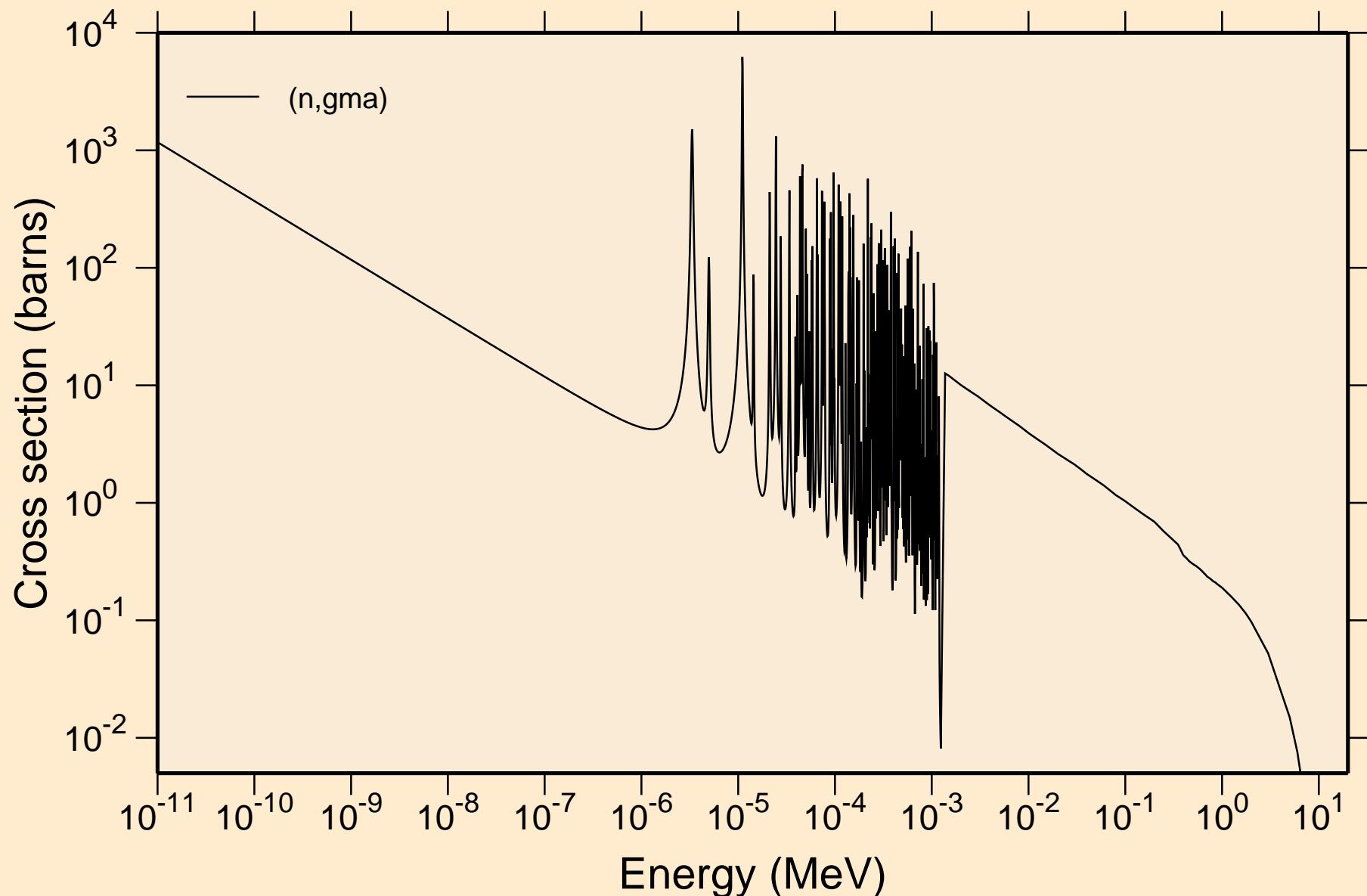


# ENDF/B-VII TB-159

## Damage

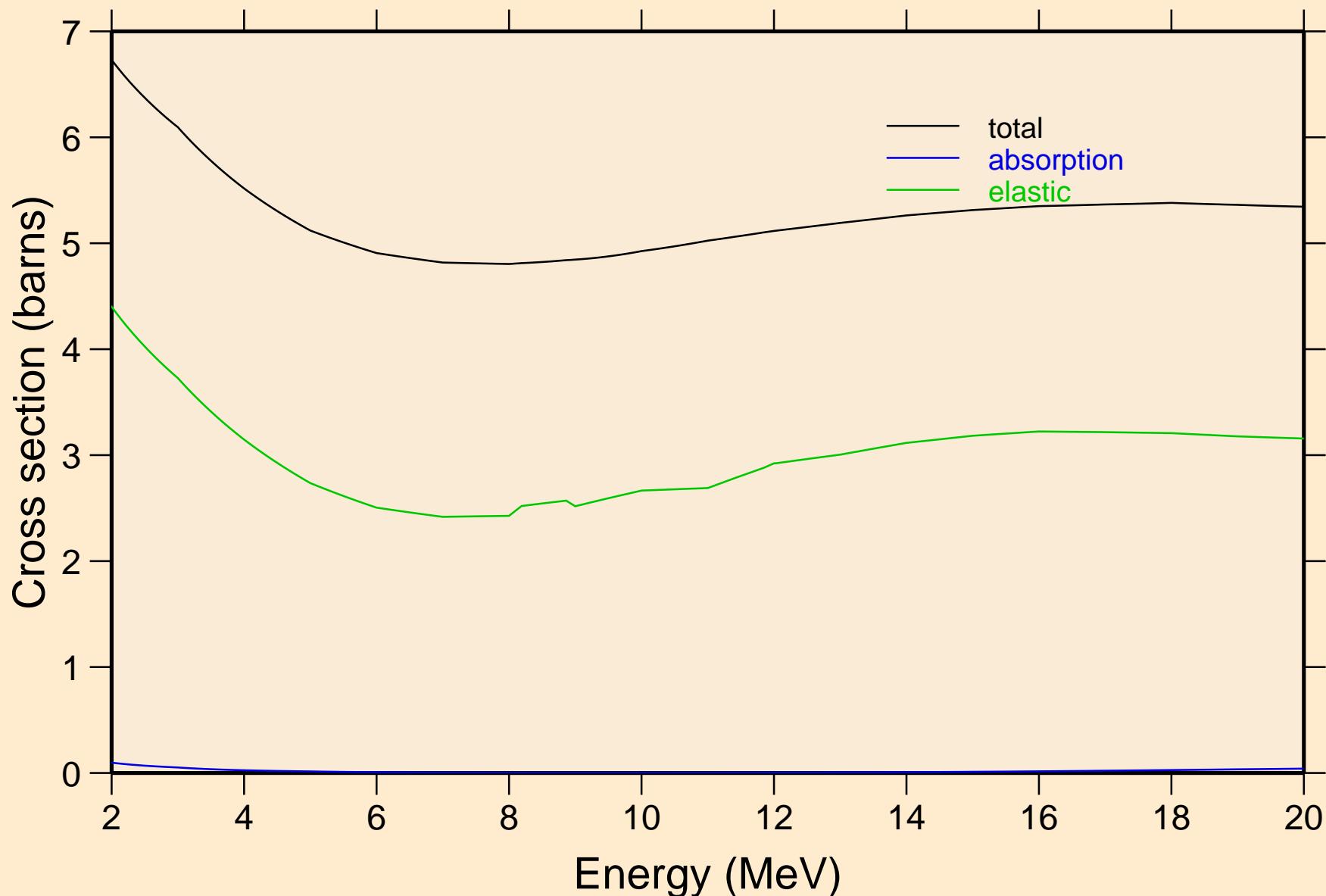


ENDF/B-VII TB-159  
Non-threshold reactions

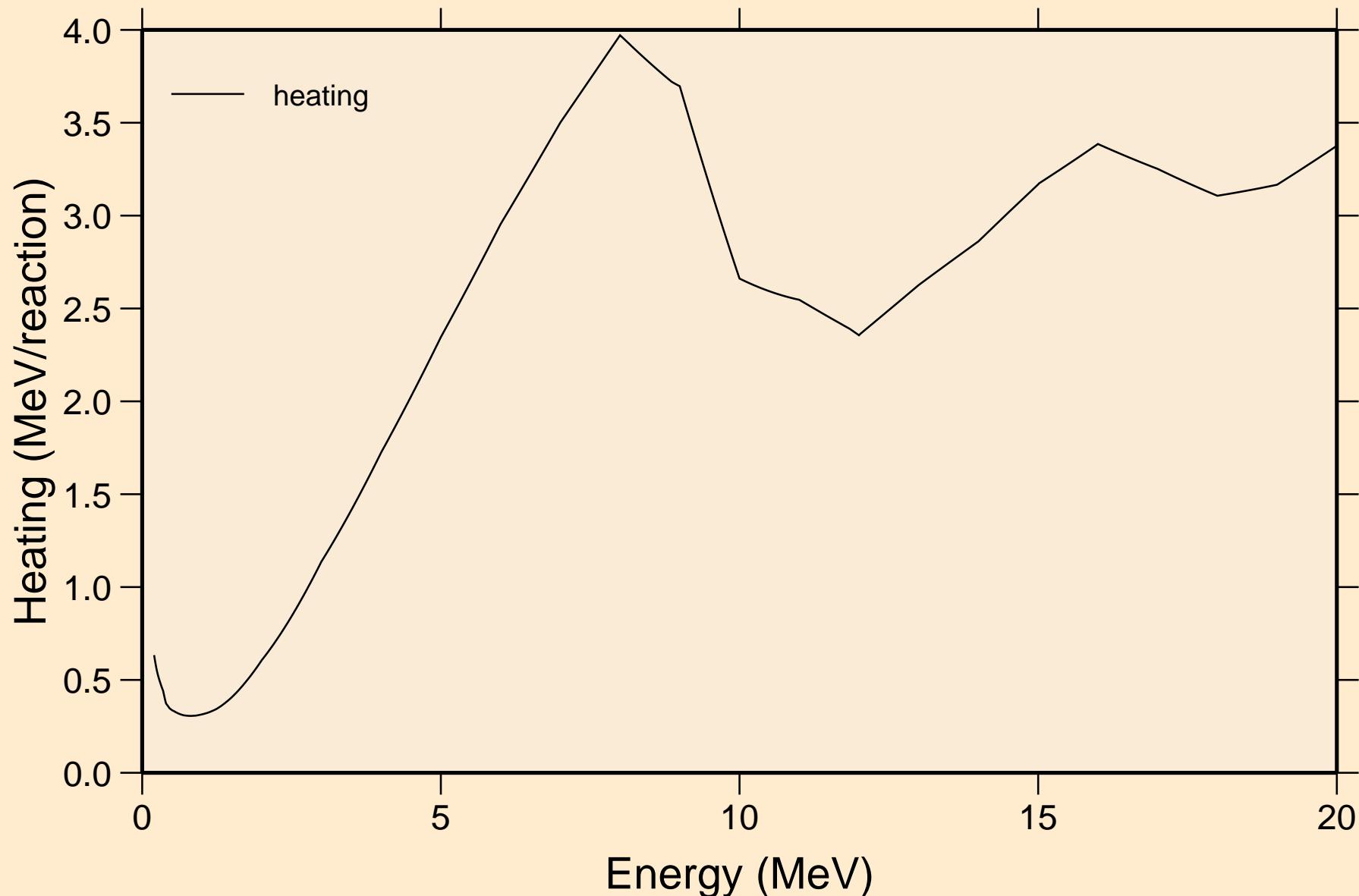


# ENDF/B-VII TB-159

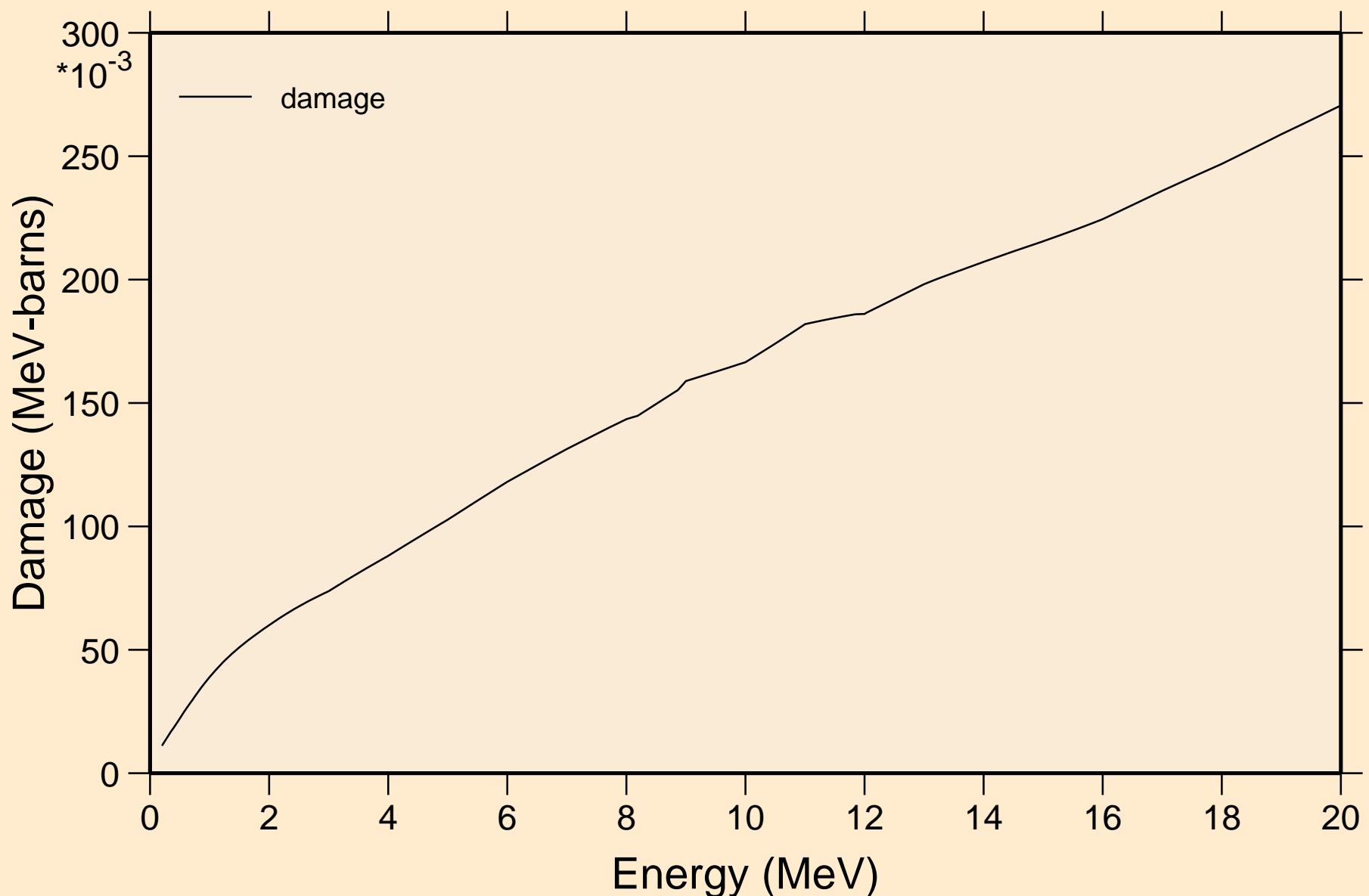
## Principal cross sections



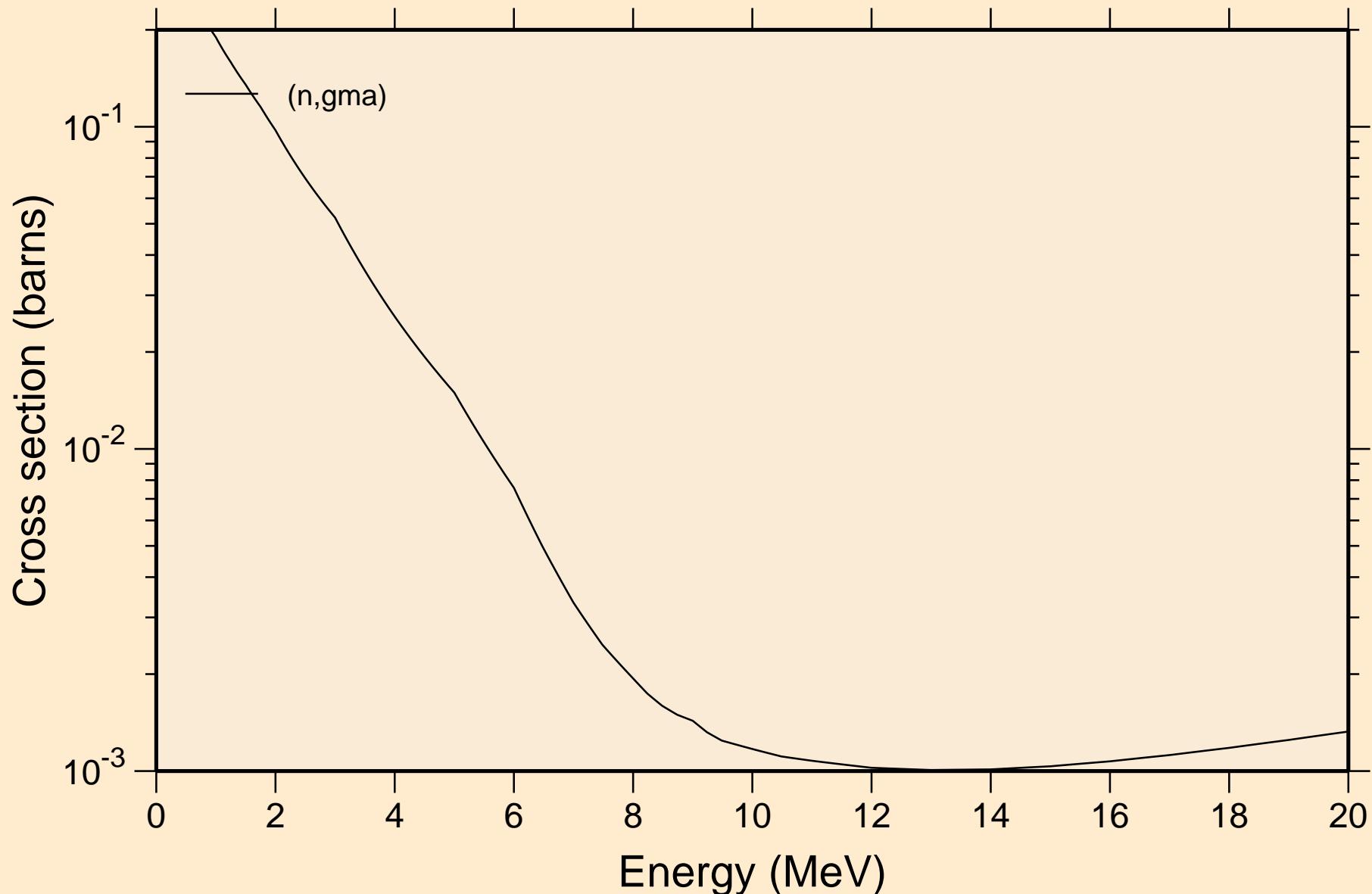
ENDF/B-VII TB-159  
Heating



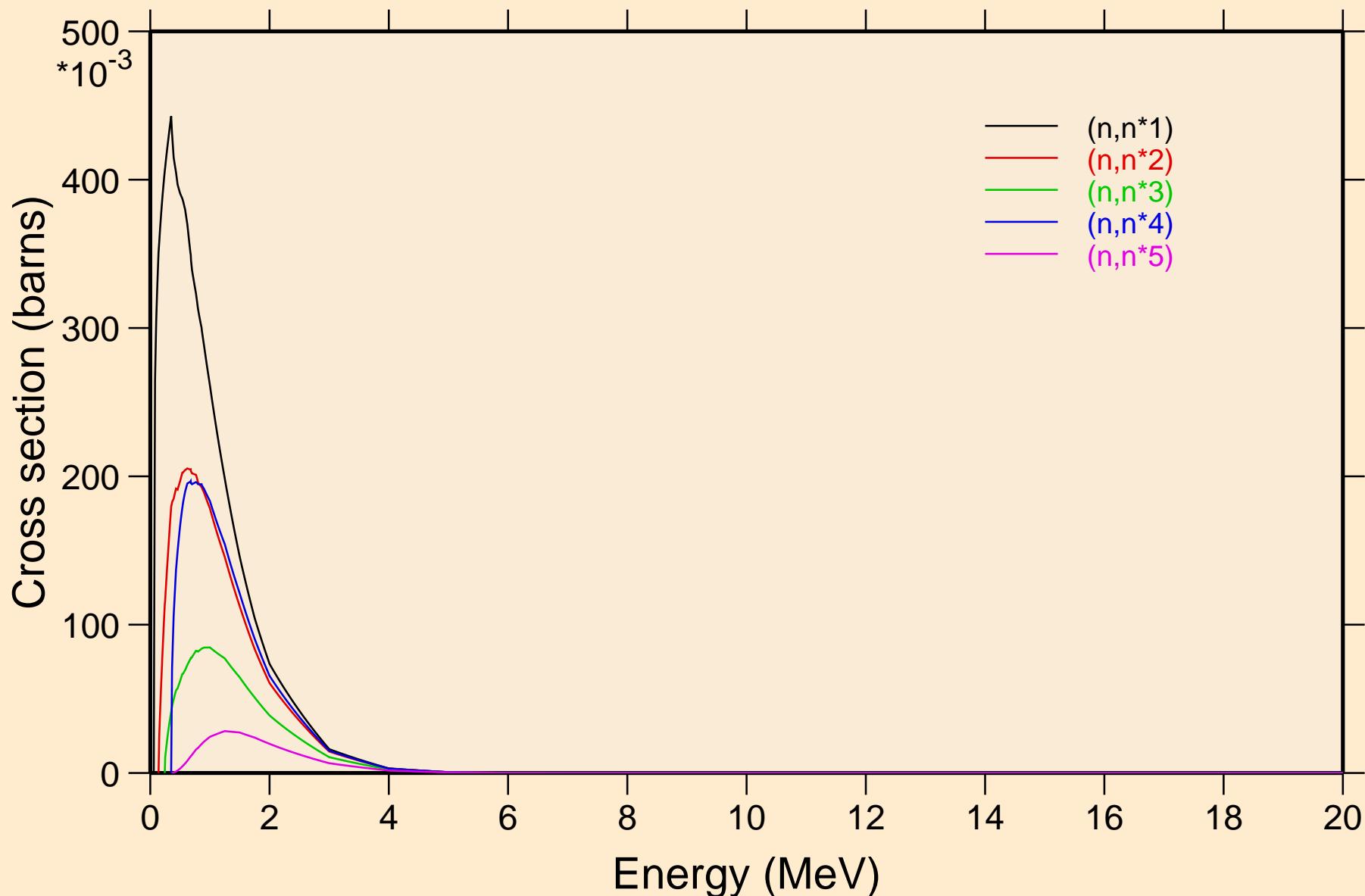
ENDF/B-VII TB-159  
Damage



ENDF/B-VII TB-159  
Non-threshold reactions

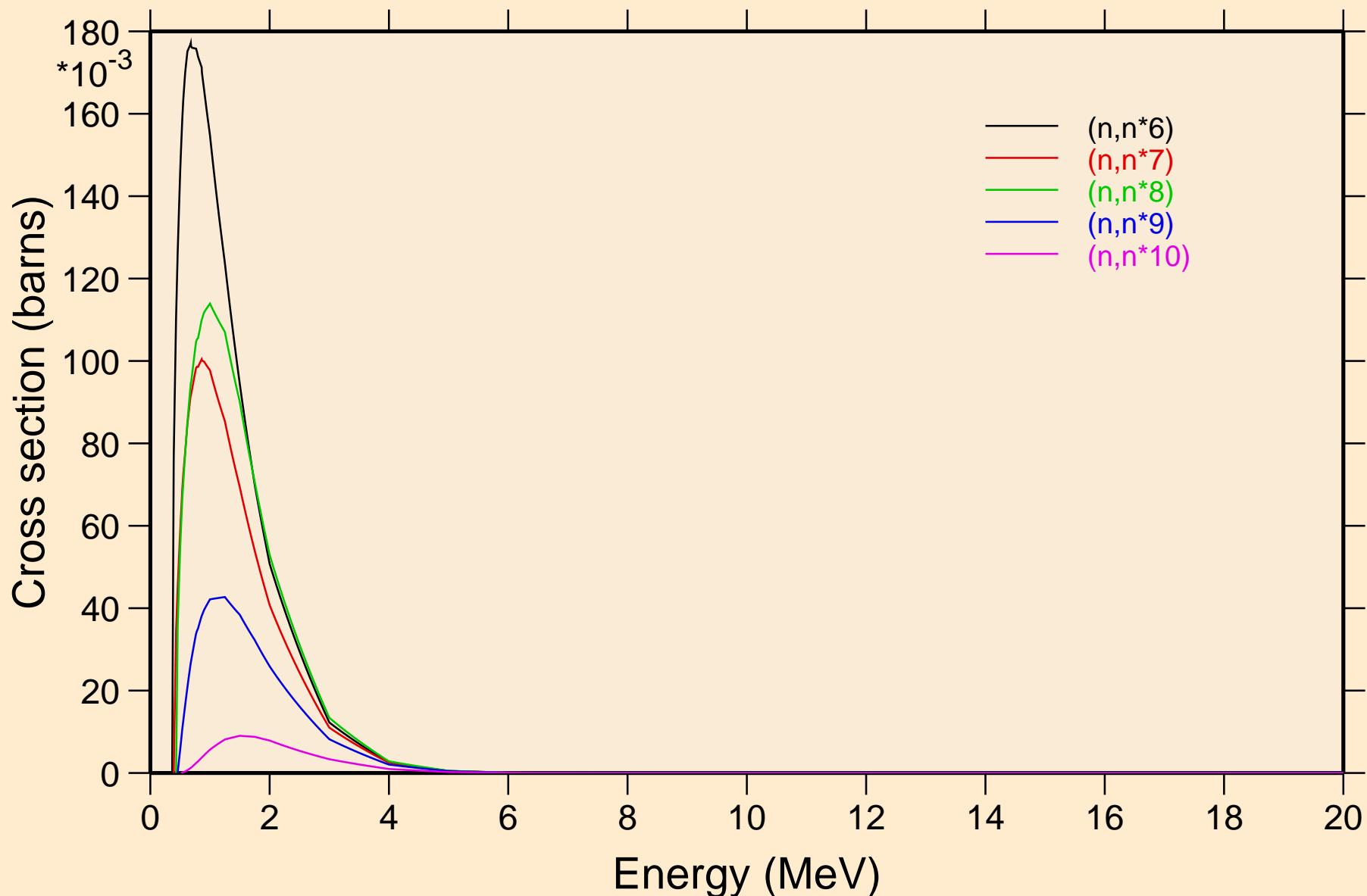


ENDF/B-VII TB-159  
Inelastic levels



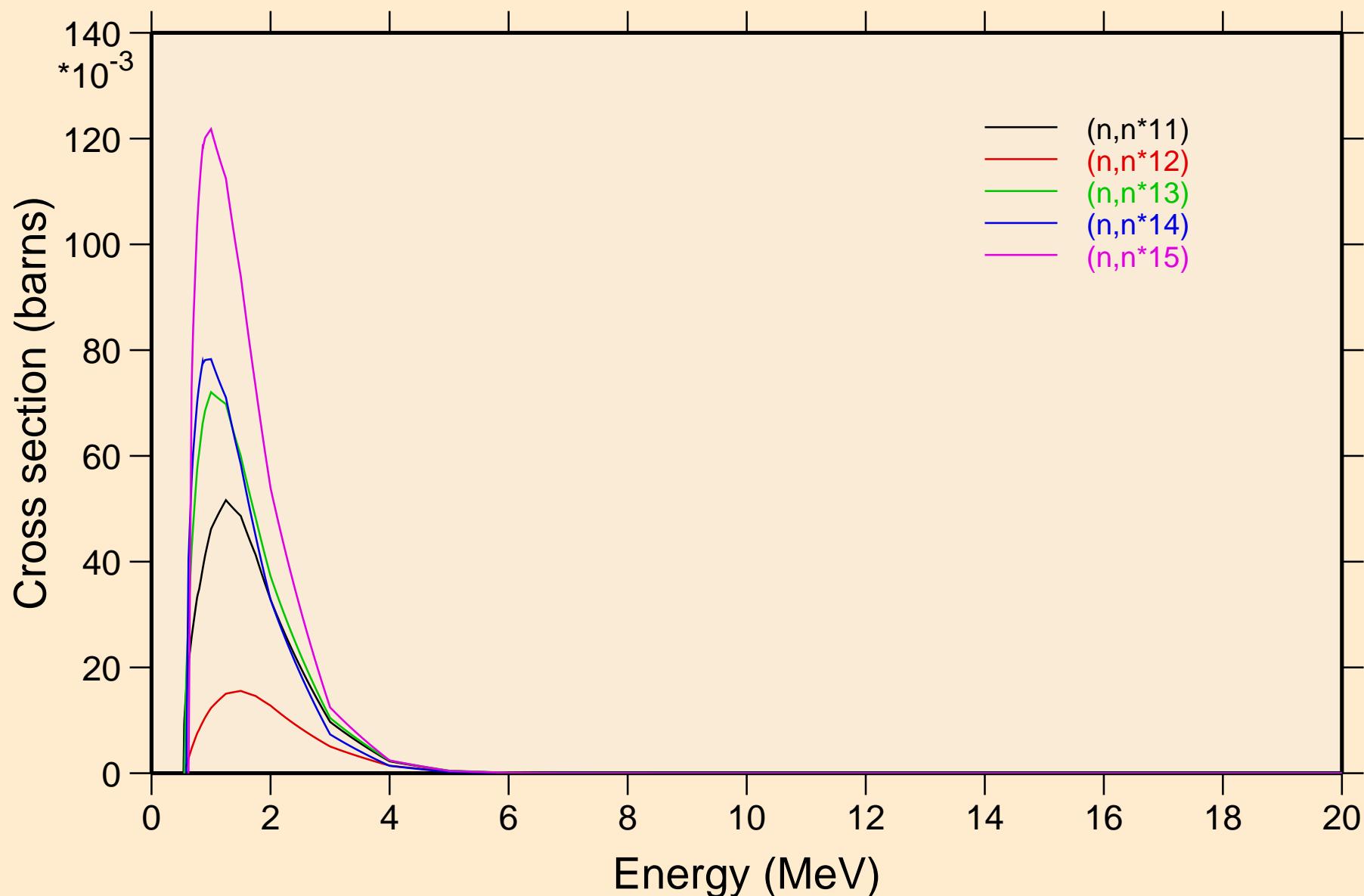
# ENDF/B-VII TB-159

## Inelastic levels



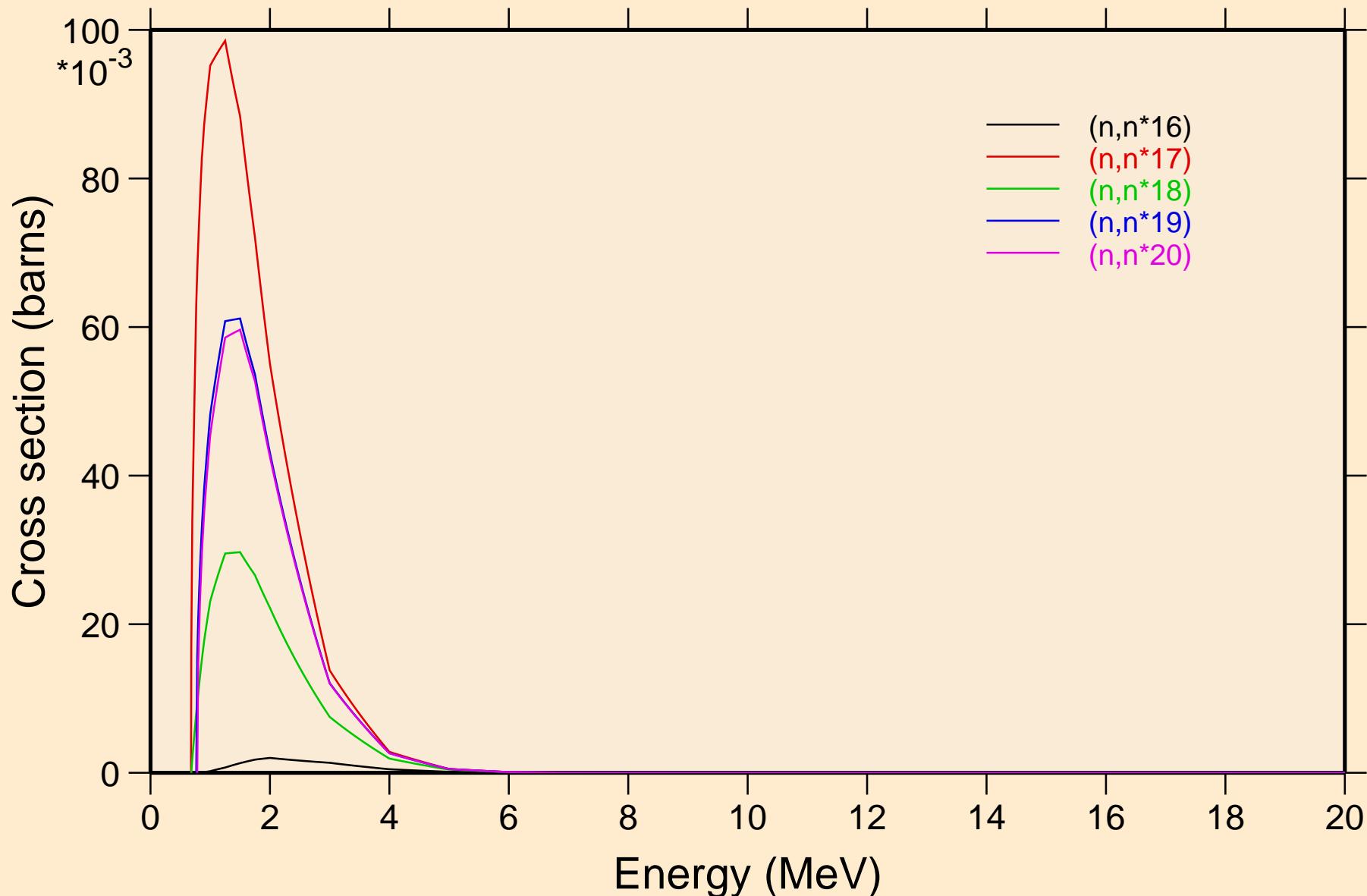
# ENDF/B-VII TB-159

## Inelastic levels

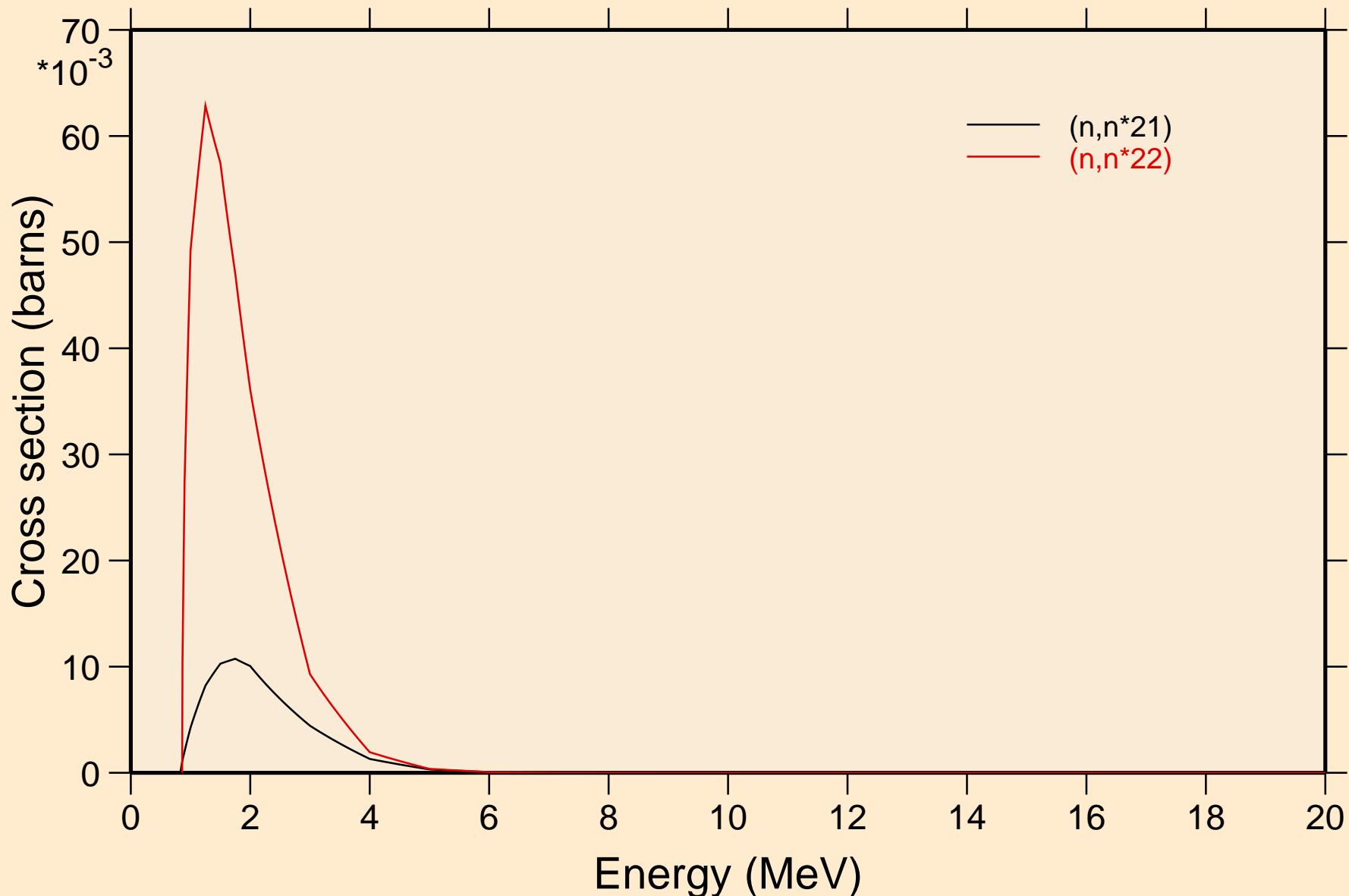


# ENDF/B-VII TB-159

## Inelastic levels

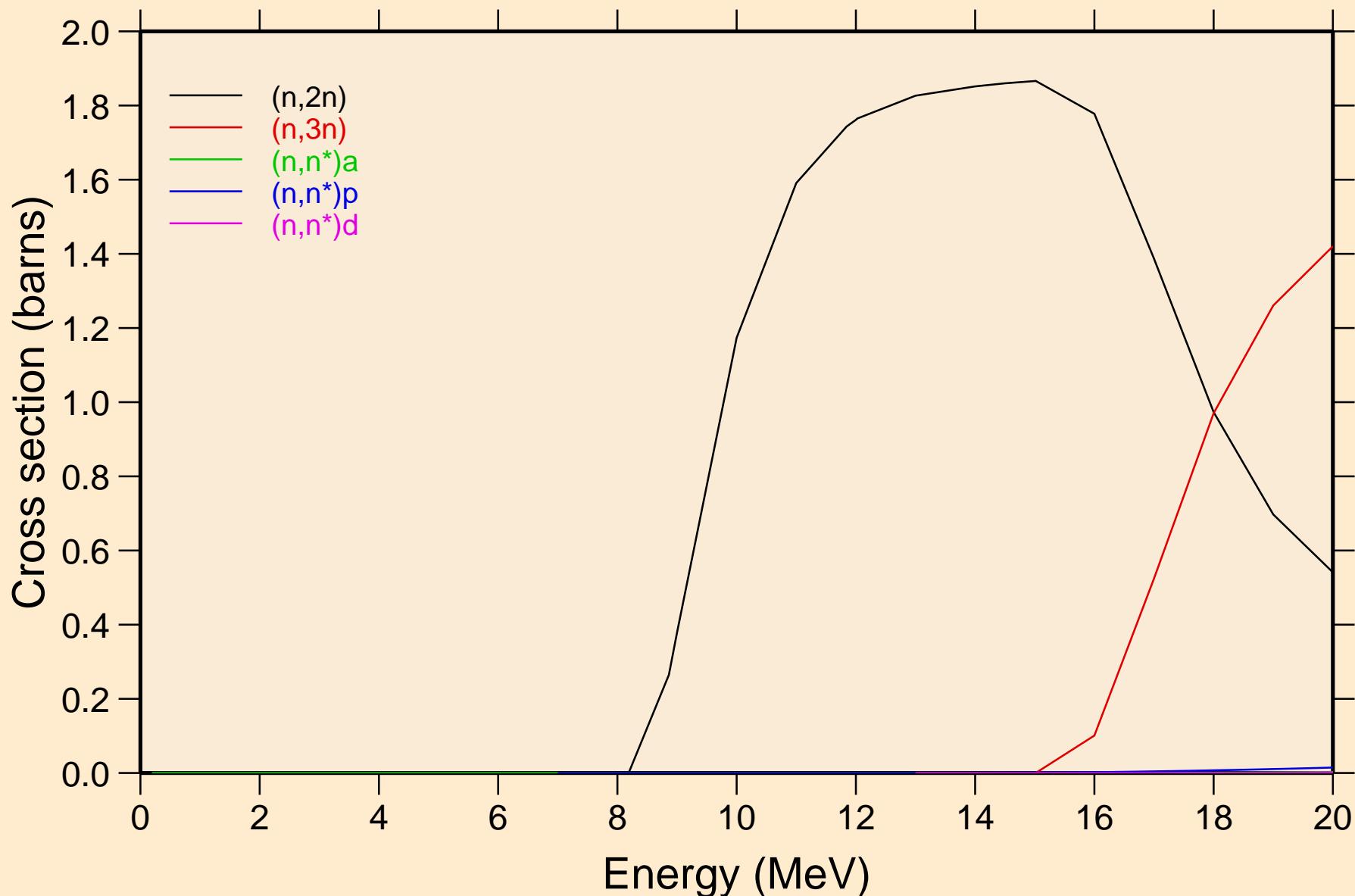


ENDF/B-VII TB-159  
Inelastic levels



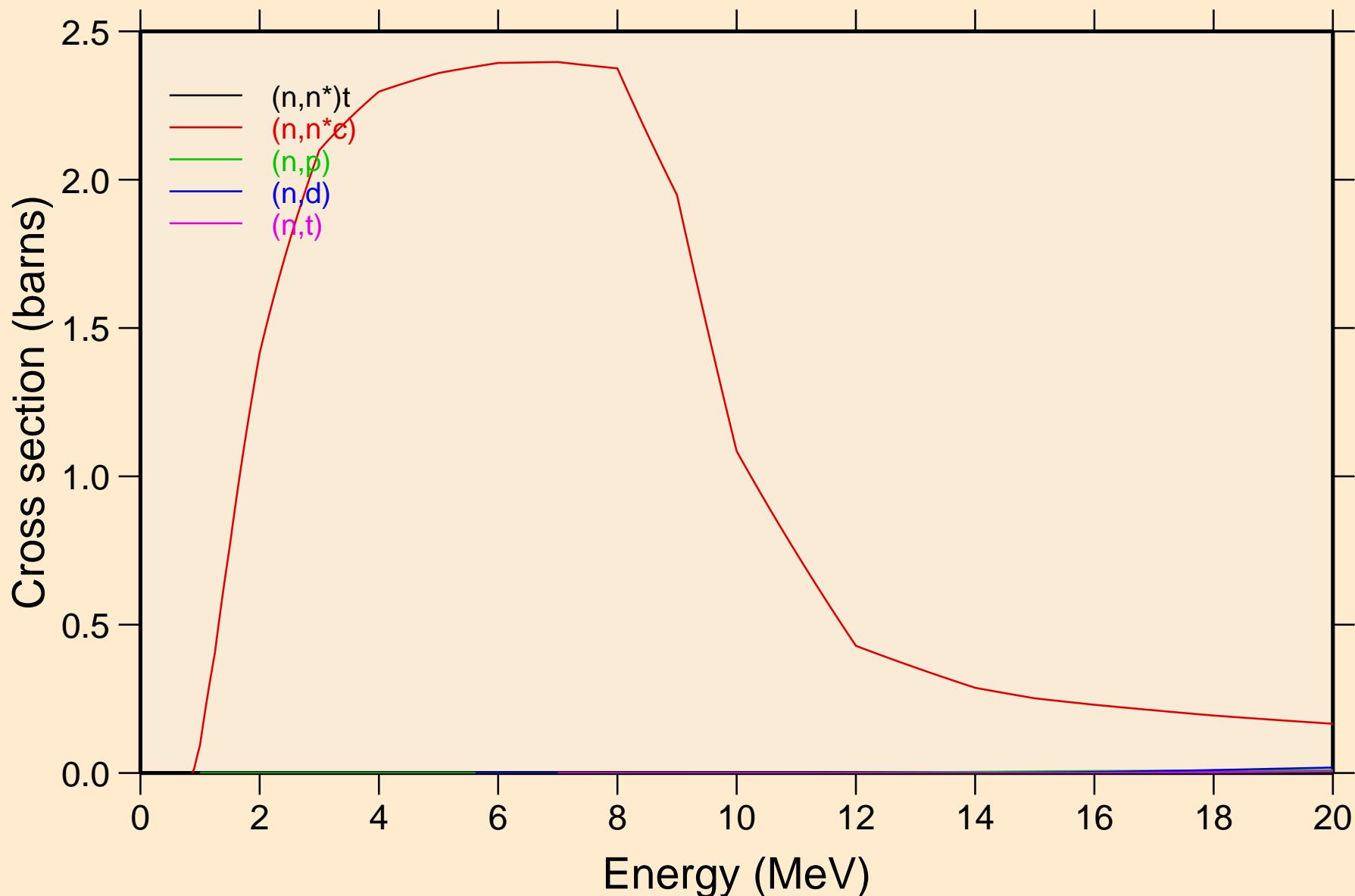
# ENDF/B-VII TB-159

## Threshold reactions

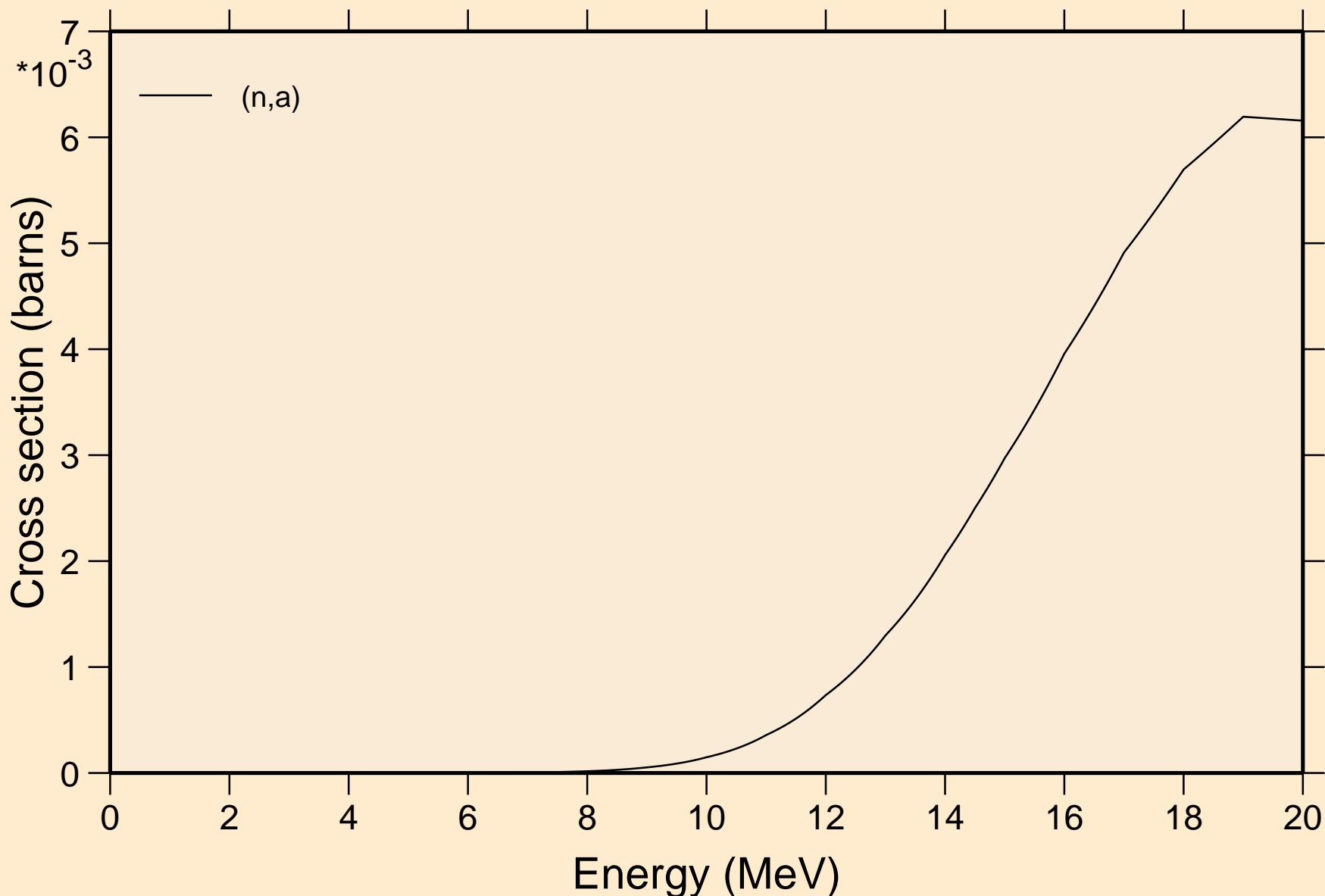


# ENDF/B-VII TB-159

## Threshold reactions

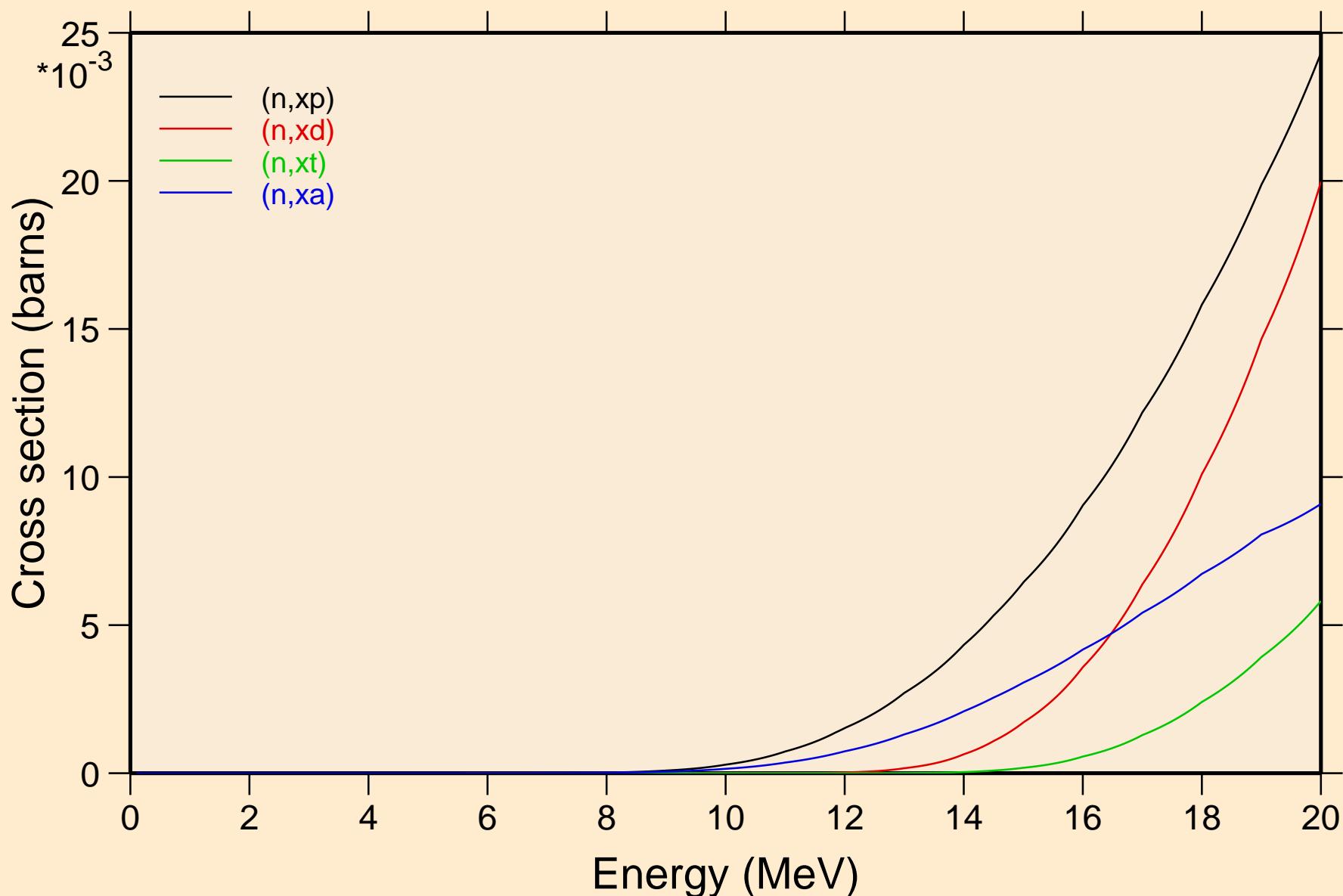


ENDF/B-VII TB-159  
Threshold reactions



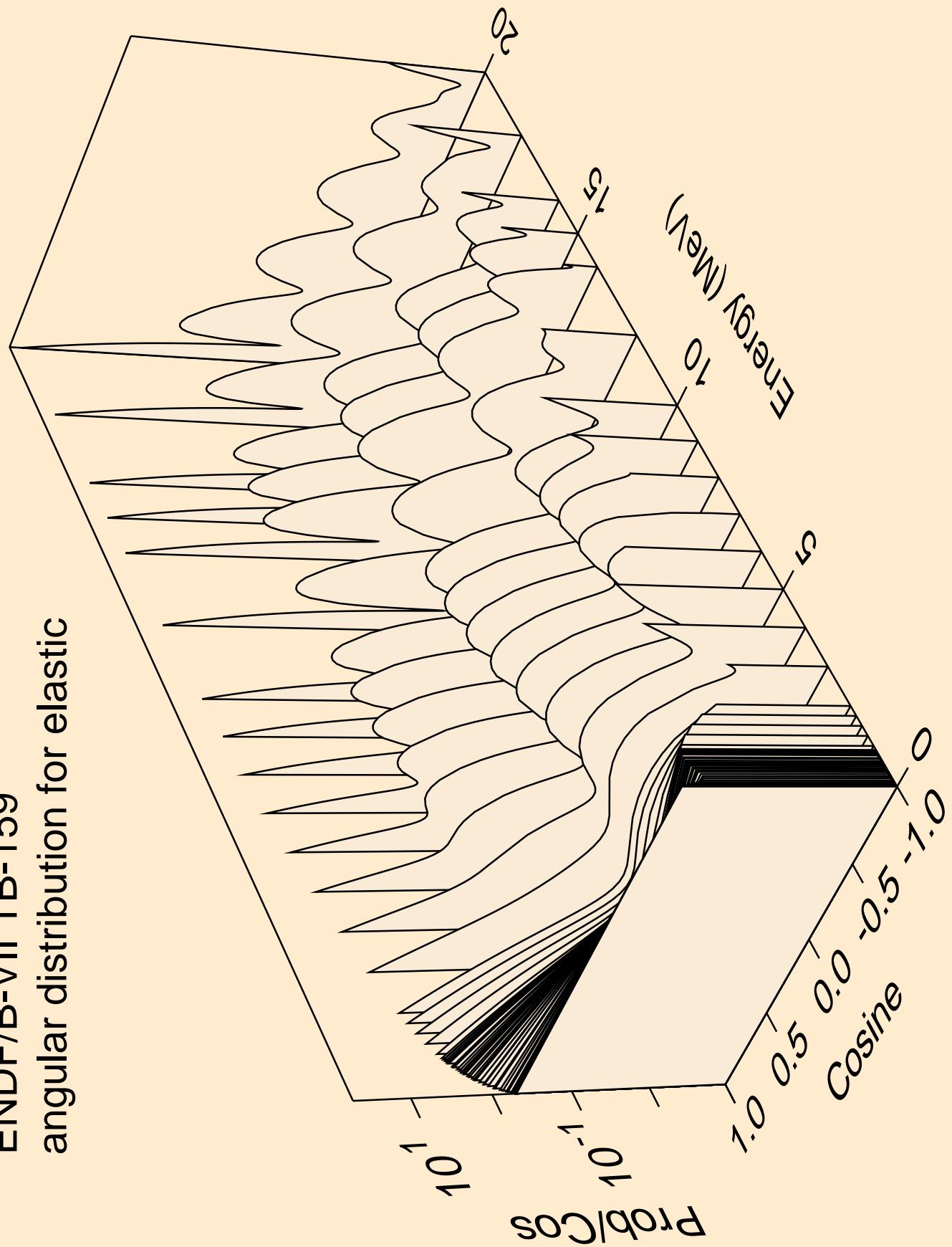
# ENDF/B-VII TB-159

## Threshold reactions

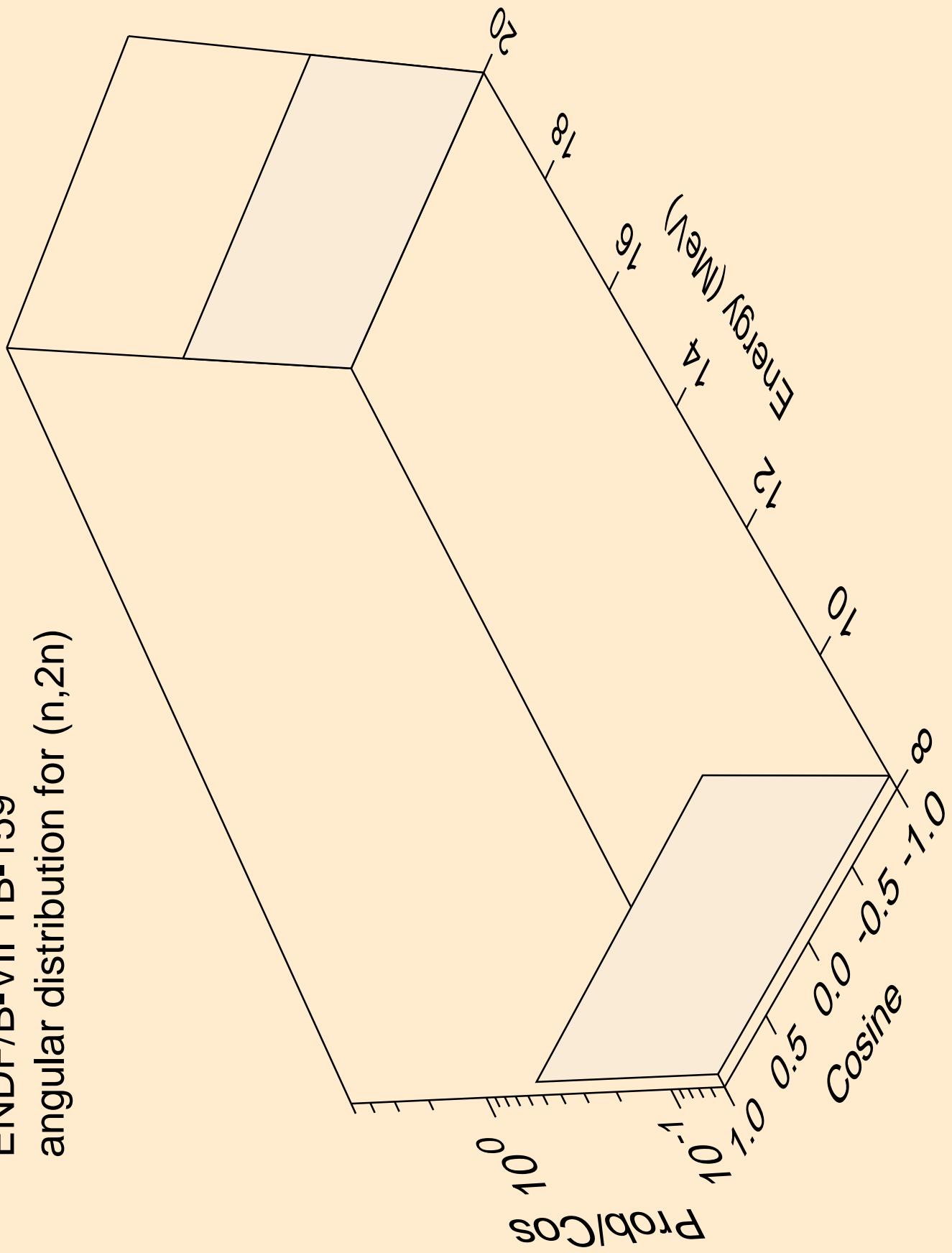


ENDF/B-VII TB-159

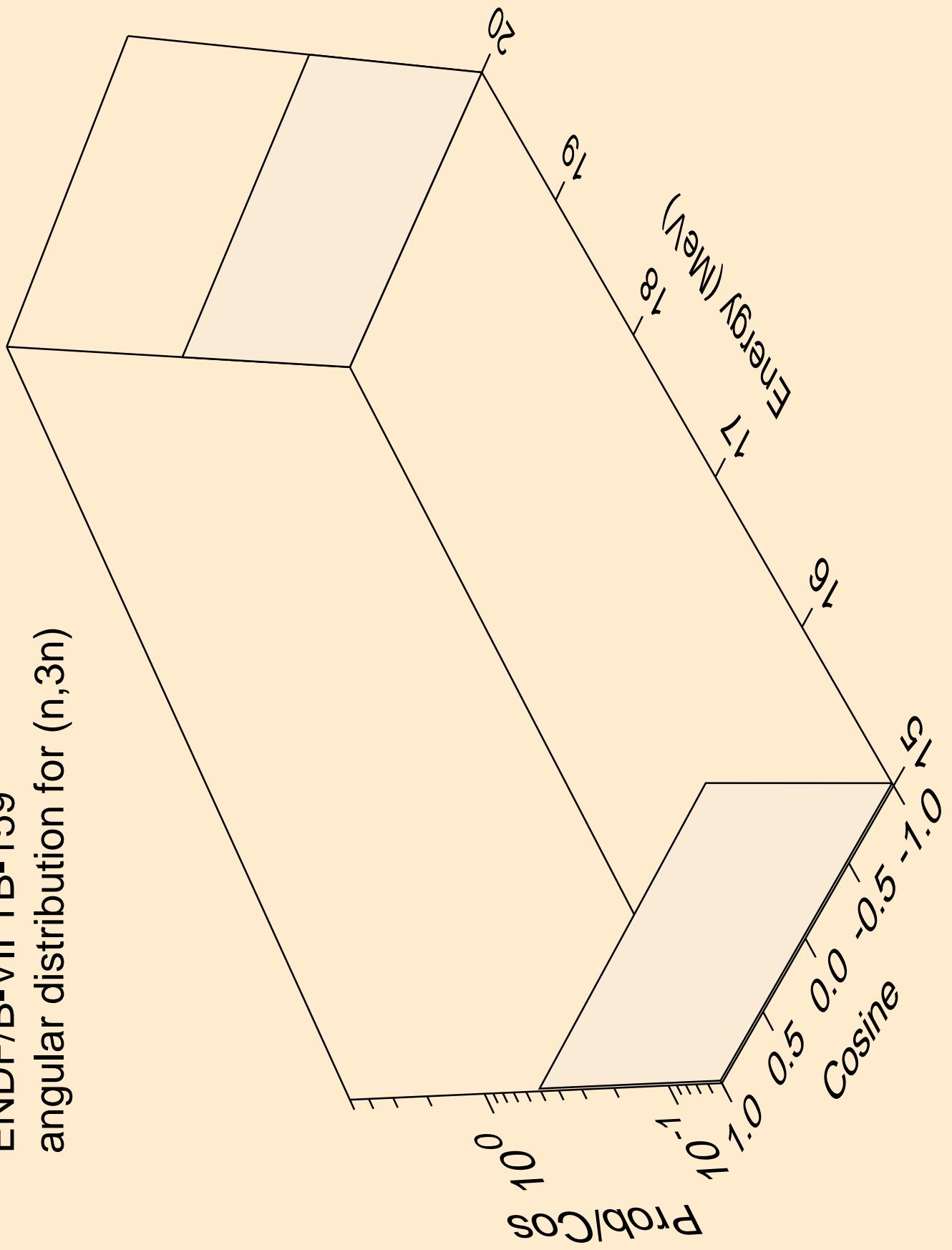
angular distribution for elastic



ENDF/B-VII TB-159  
angular distribution for (n,2n)

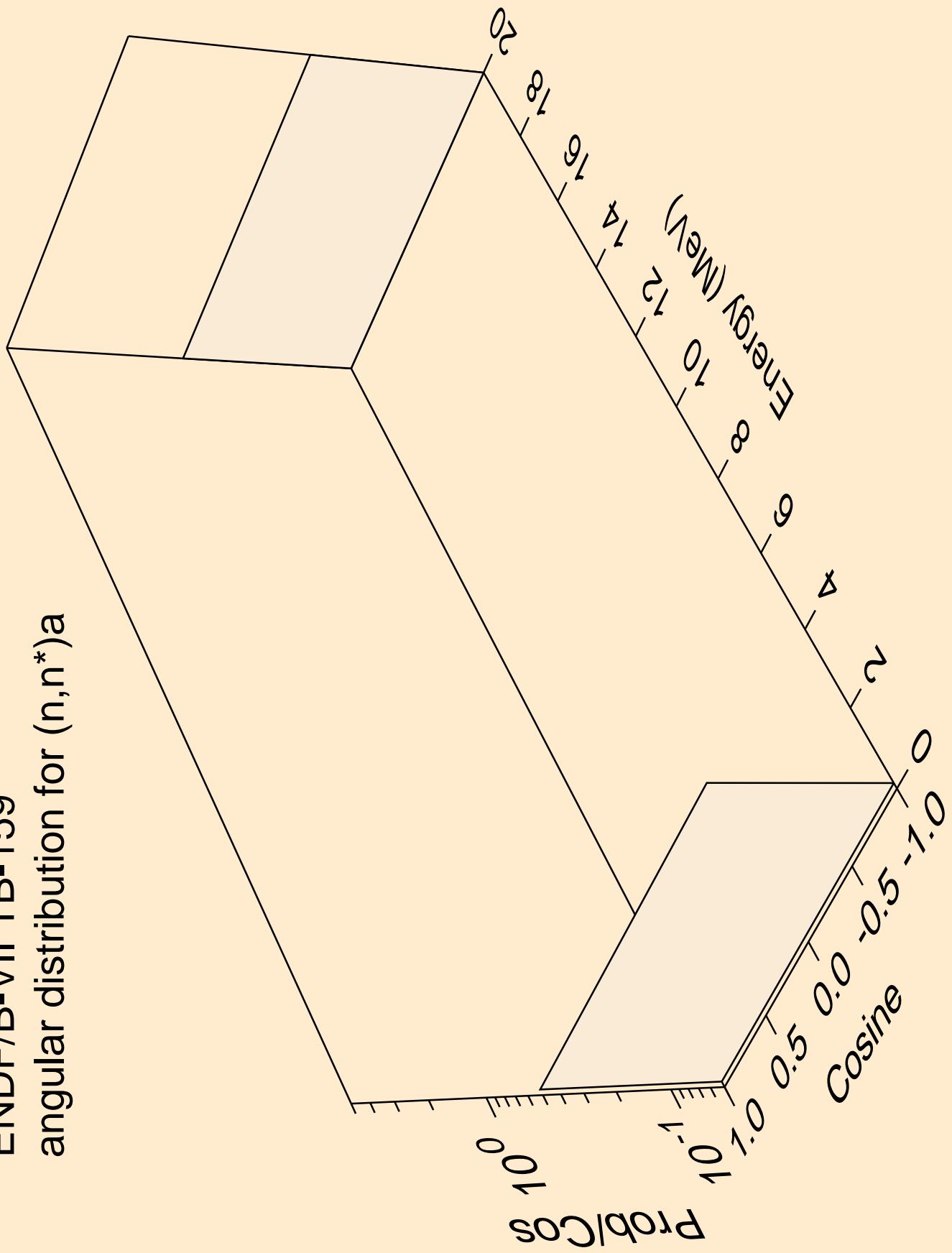


ENDF/B-VII TB-159  
angular distribution for (n,3n)



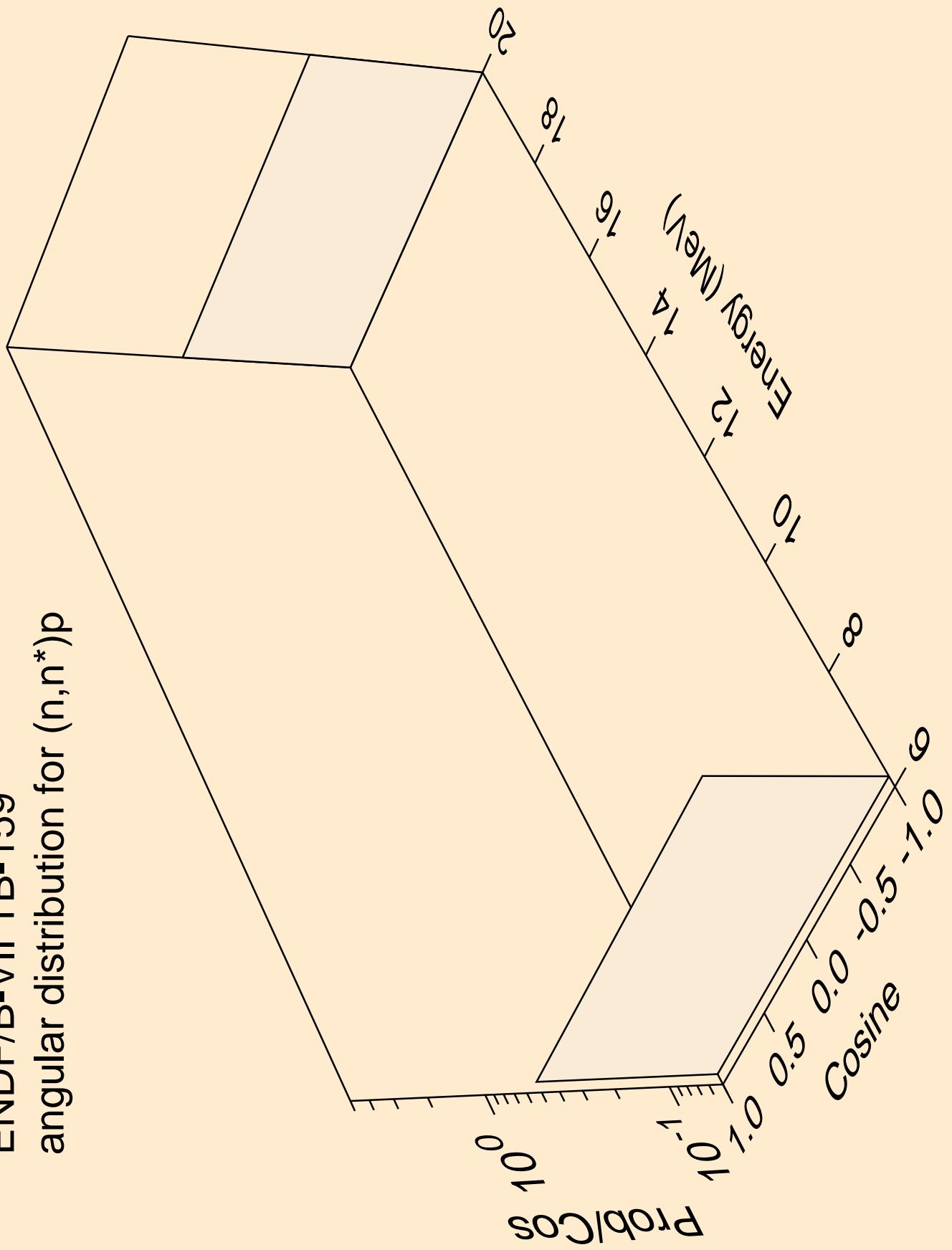
ENDF/B-VII TB-159

angular distribution for  $(n,n^*)\alpha$



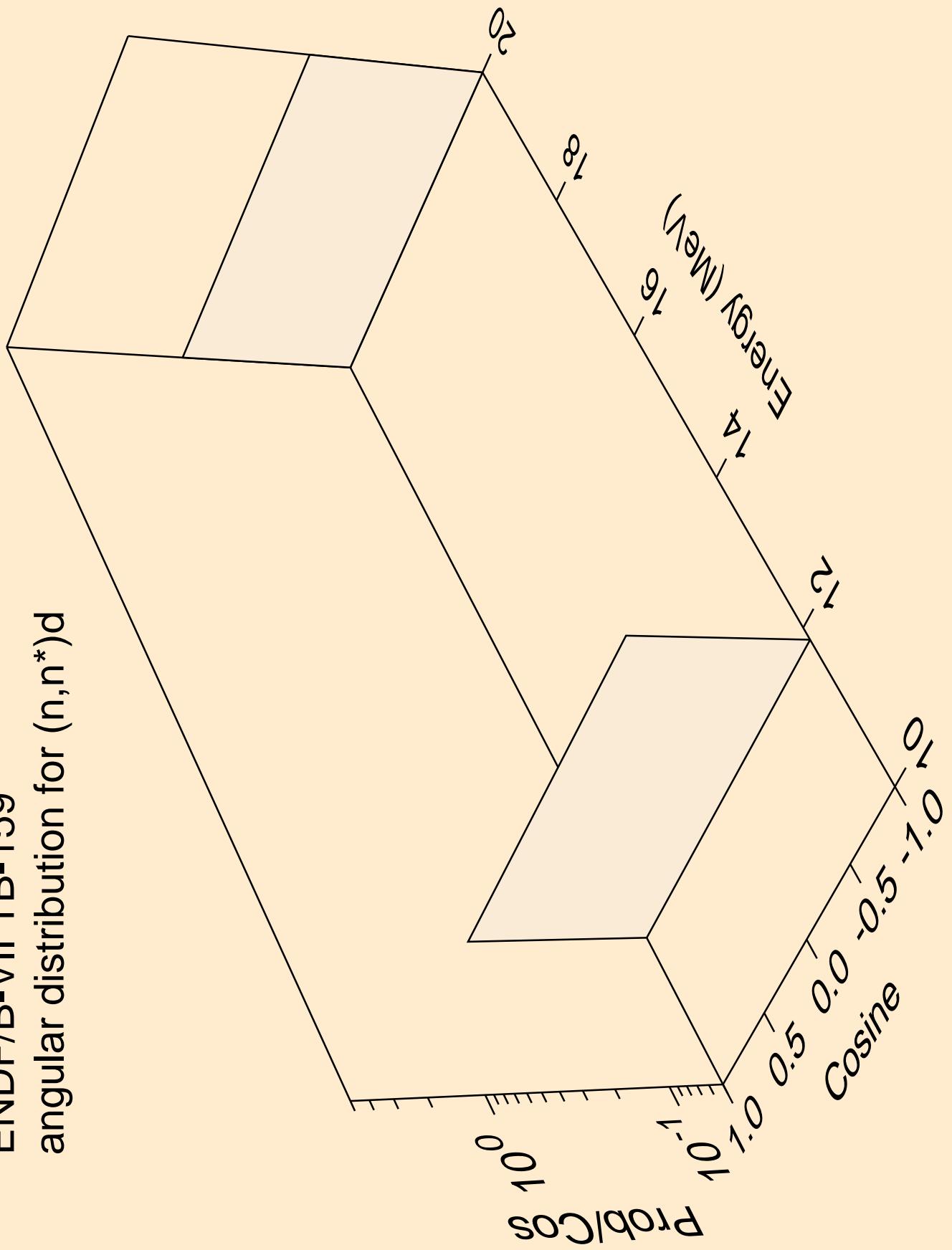
ENDF/B-VII TB-159

angular distribution for  $(n,n^*)p$

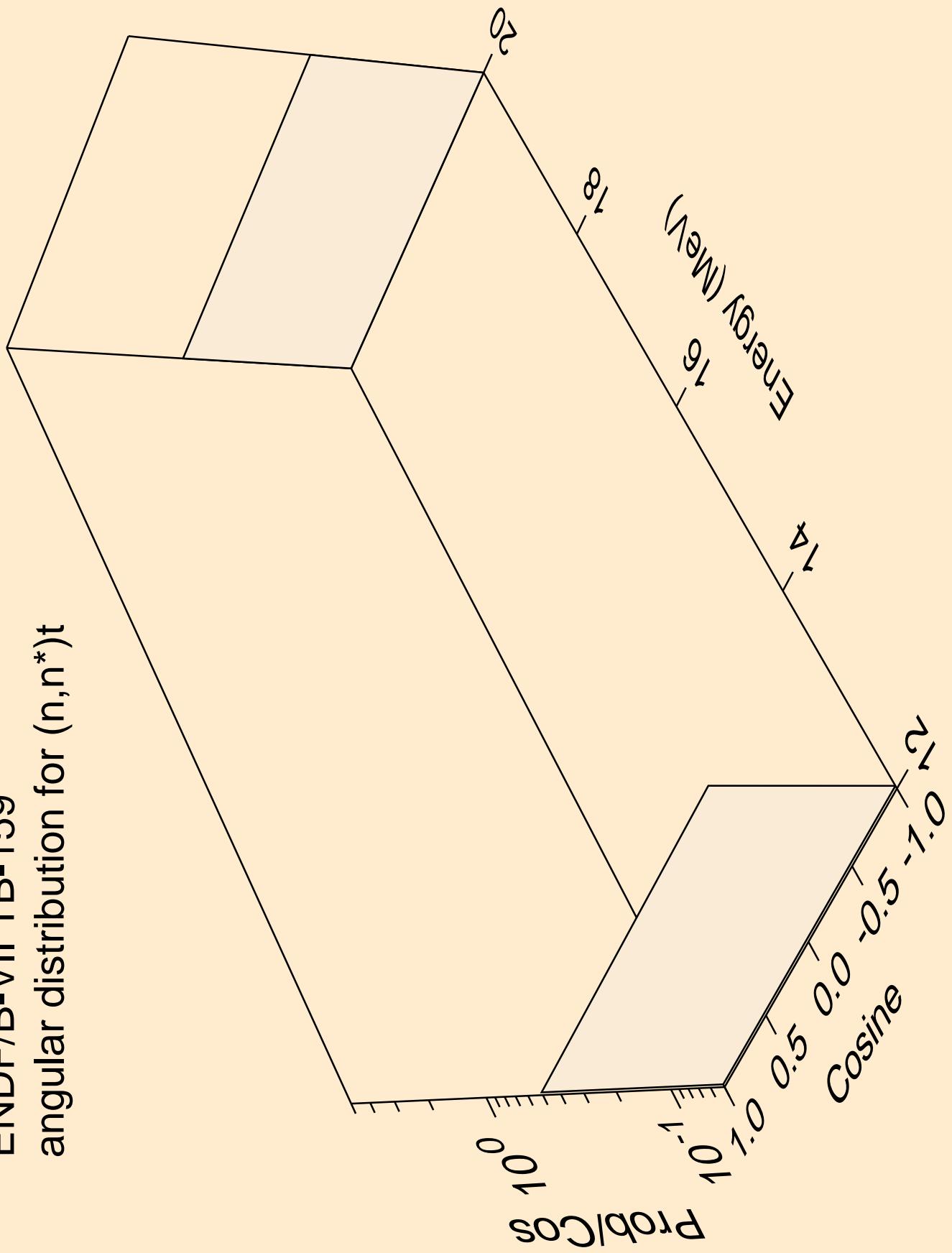


ENDF/B-VII TB-159

angular distribution for  $(n,n^*)d$



ENDF/B-VII TB-159  
angular distribution for  $(n,n^*)t$



ENDF/B-VII TB-159

angular distribution for  $(n, n^* 1)$

$10^0$

Prob/Cos

1.0 0.5 0.0 -0.5 -1.0  
Cosine

Energy (MeV)  
10 8 6 4 2 0

20

18

16

14

12

10

8

6

4

2

0

ENDF/B-VII TB-159

angular distribution for ( $n,n^*2$ )

$10^0$

Prob/Cos

1.0 0.5 0.0 -0.5 -1.0  
Cosine

Energ (MeV)

20

18

16

14

12

10

8

6

4

2

0

ENDF/B-VII TB-159

angular distribution for ( $n,n^*3$ )

$10^0$

Prob/Cos

1.0 0.5 0.0 -0.5 -1.0  
Cosine

20  
18  
16  
14  
12  
10  
Energ (MeV)

20

18

16

14

12

10

8

6

4

2

0

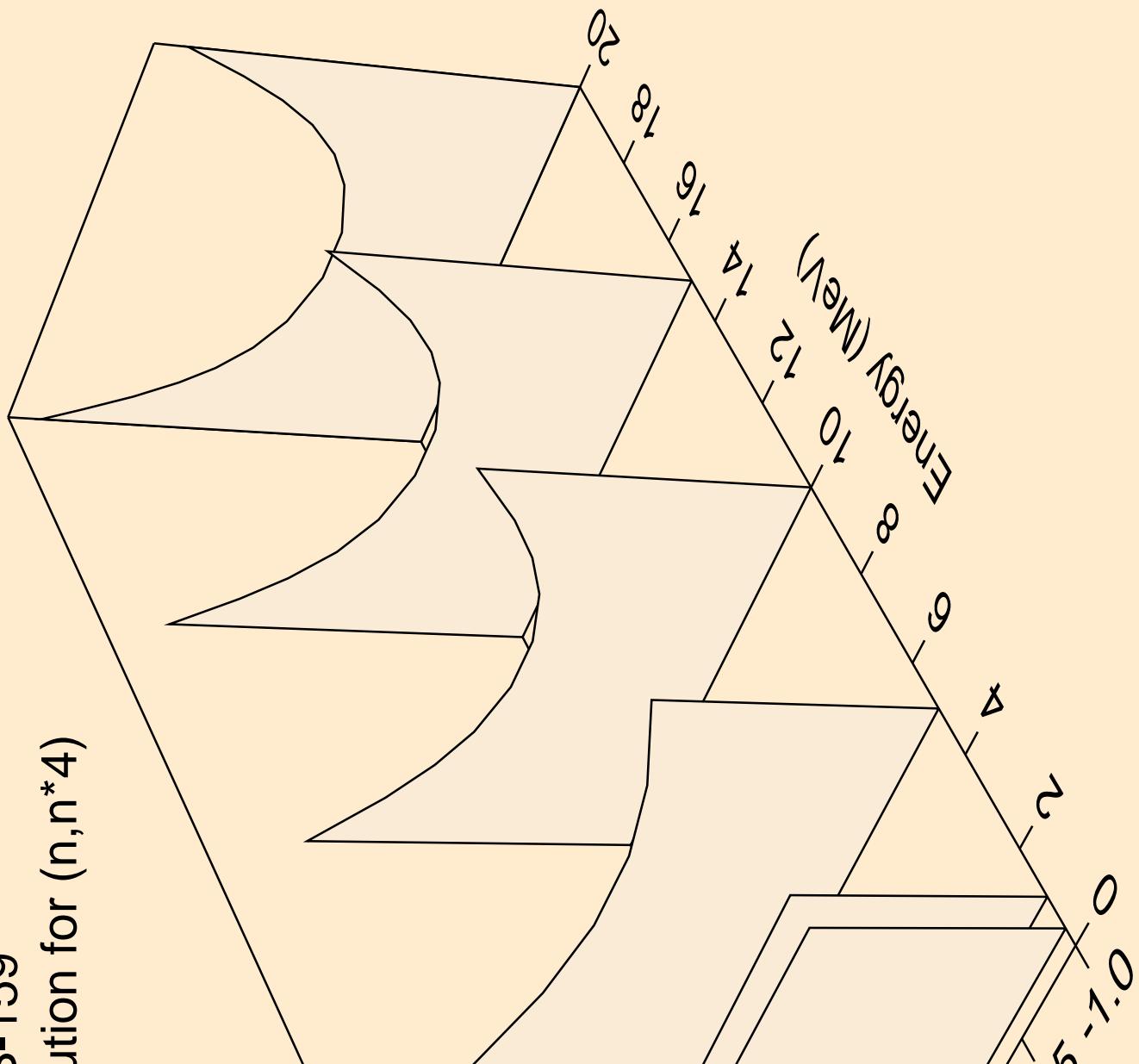
ENDF/B-VII TB-159

angular distribution for  $(n,n^*4)$

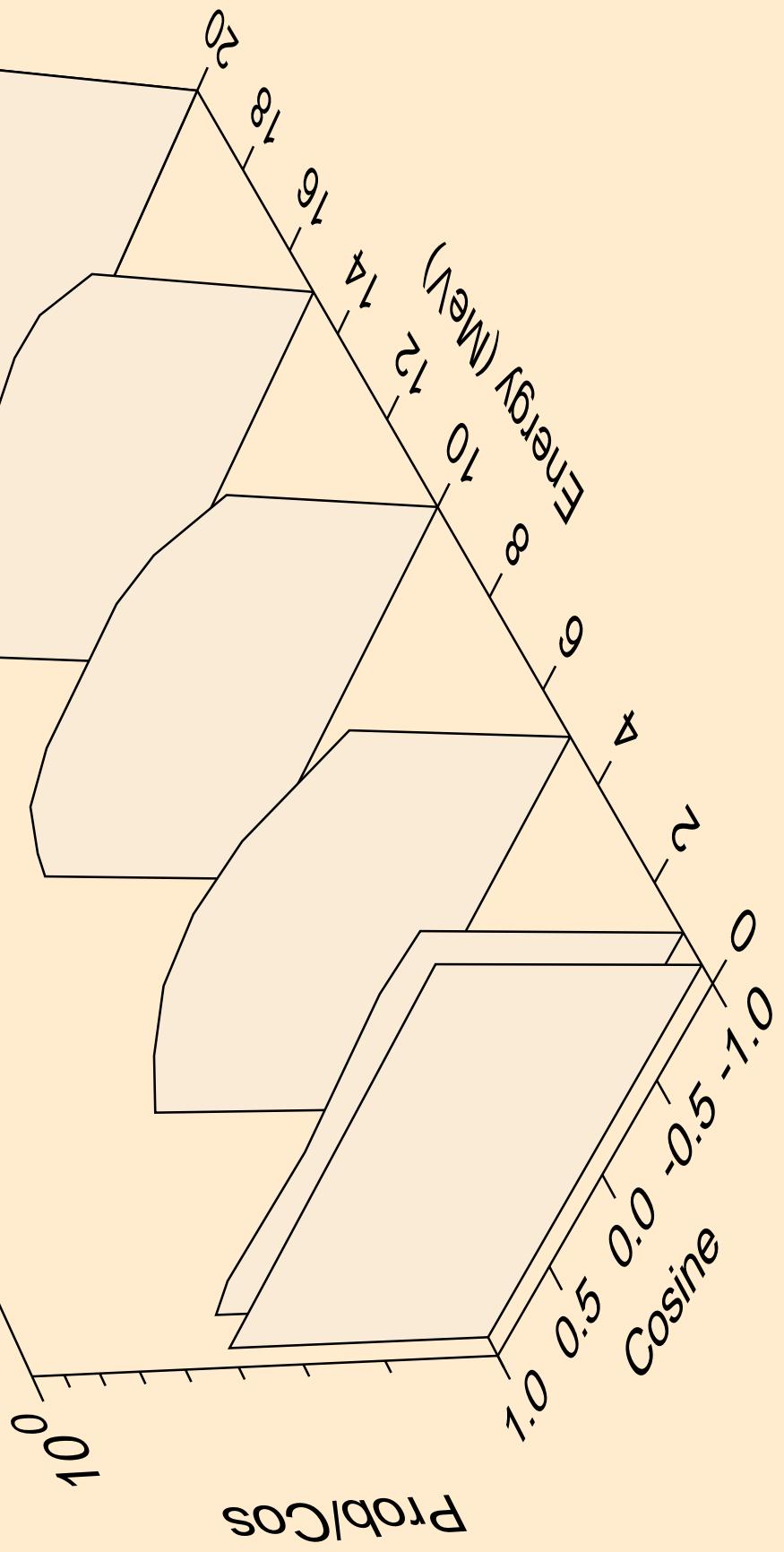
$10^0$

Prob/Cos

1.0 0.5 0.0 -0.5 -1.0  
Cosine



ENDF/B-VII TB-159  
angular distribution for (n,n\*5)



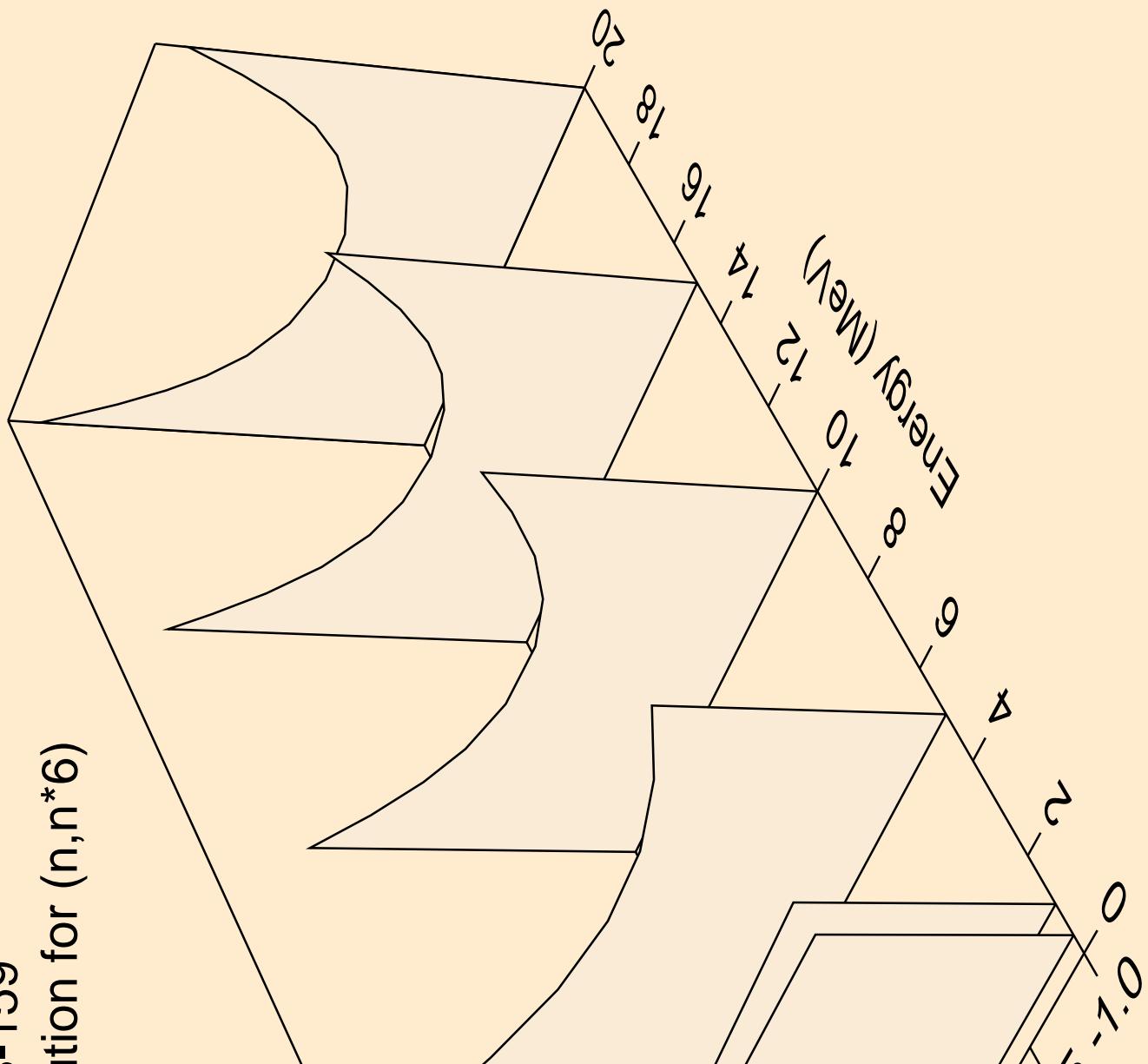
ENDF/B-VII TB-159

angular distribution for  $(n, n^* \gamma)$

$10^0$

Prob/Cos

1.0 0.5 0.0 -0.5 -1.0  
Cosine



ENDF/B-VII TB-159

angular distribution for (n,n\*7)

$10^0$

Prob/Cos

1.0 0.5 0.0 -0.5 -1.0  
Cosine

Δ

φ

Energ (MeV)

20

18

16

14

12

10

8

6

4

2

0

ENDF/B-VII TB-159

angular distribution for (n,n\*8)

$10^0$

Prob/Cos

1.0 0.5 0.0 -0.5 -1.0  
Cosine

$\Delta$

Energ (MeV)

10  
8  
6  
4  
2  
0

$\phi$

$180^\circ$

$160^\circ$

$140^\circ$

$120^\circ$

$100^\circ$

$80^\circ$

$60^\circ$

$40^\circ$

$20^\circ$

$0^\circ$

ENDF/B-VII TB-159  
angular distribution for (n,n<sup>\*</sup>g)

Prob/Cos

10<sup>0</sup>

0.5 -1.0  
0.0  
-0.5  
1.0  
Cosine

Energy (MeV)

20  
18  
16  
14  
12  
10  
8  
6  
4  
2  
0

ENDF/B-VII TB-159

angular distribution for (n,n\*10)

$10^0$

Prob/Cos

1.0 0.5 0.0 -0.5 -1.0  
Cosine

Energy (MeV)

20

18

16

14

12

10

8

6

4

2

0

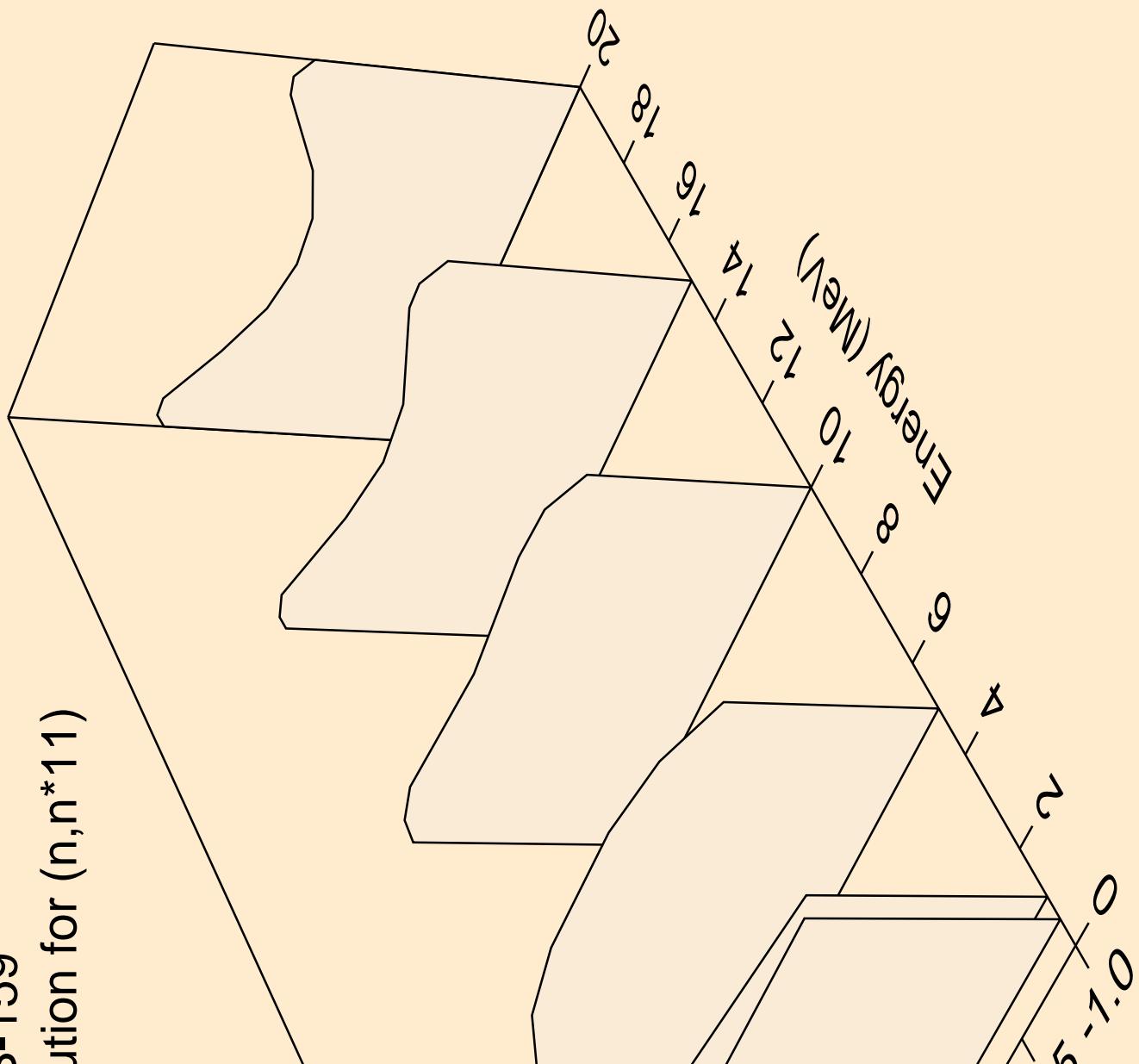
ENDF/B-VII TB-159

angular distribution for (n,n\*11)

$10^0$

Prob/Cos

1.0 0.5 0.0 -0.5 -1.0  
Cosine



ENDF/B-VII TB-159

angular distribution for (n,n\*12)

$10^0$

Prob/Cos

1.0 0.5 0.0 -0.5 -1.0  
Cosine

20  
18  
16  
14  
12  
10  
8  
Energy (MeV)

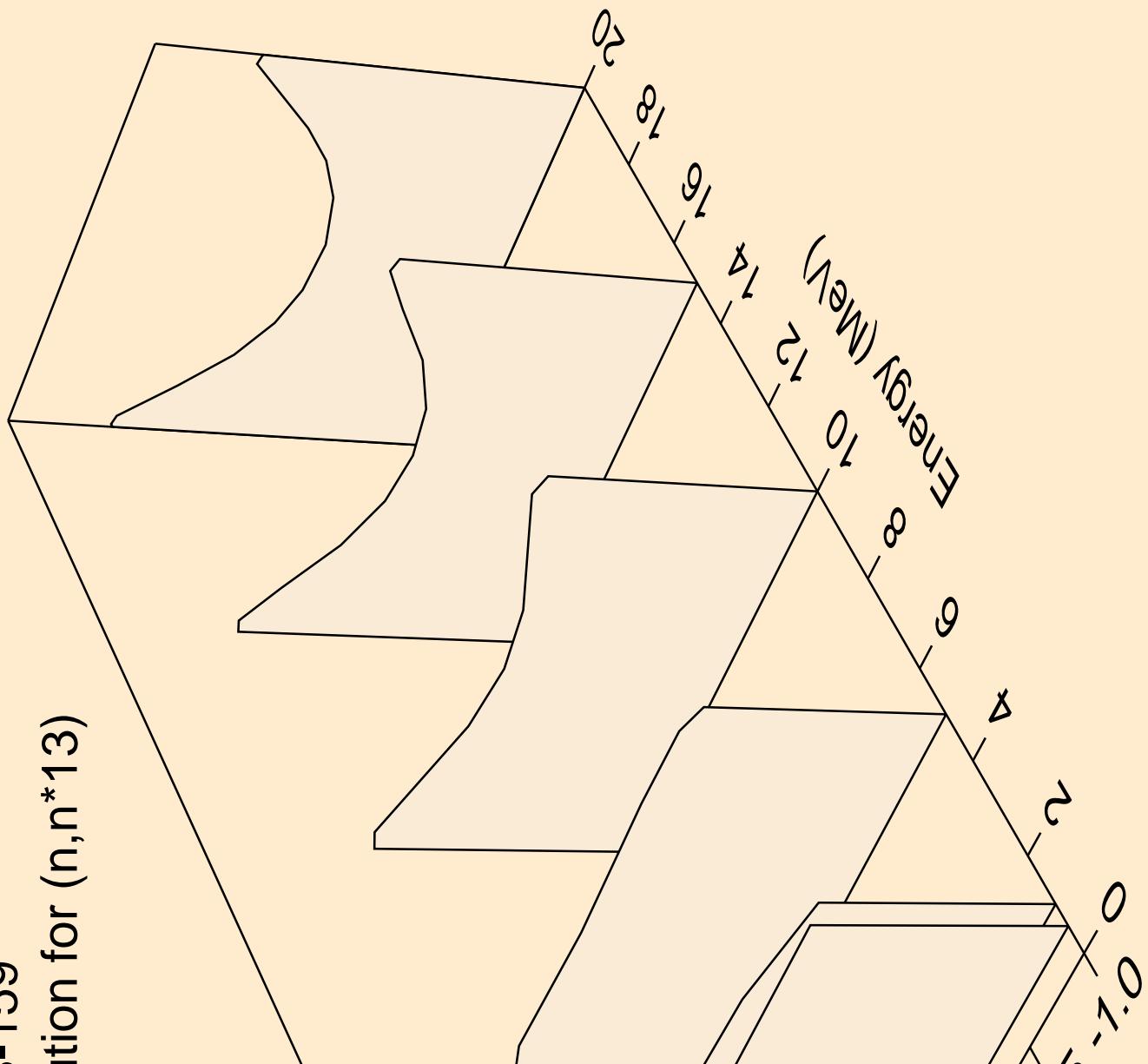
ENDF/B-VII TB-159

angular distribution for (n,n\*13)

$10^0$

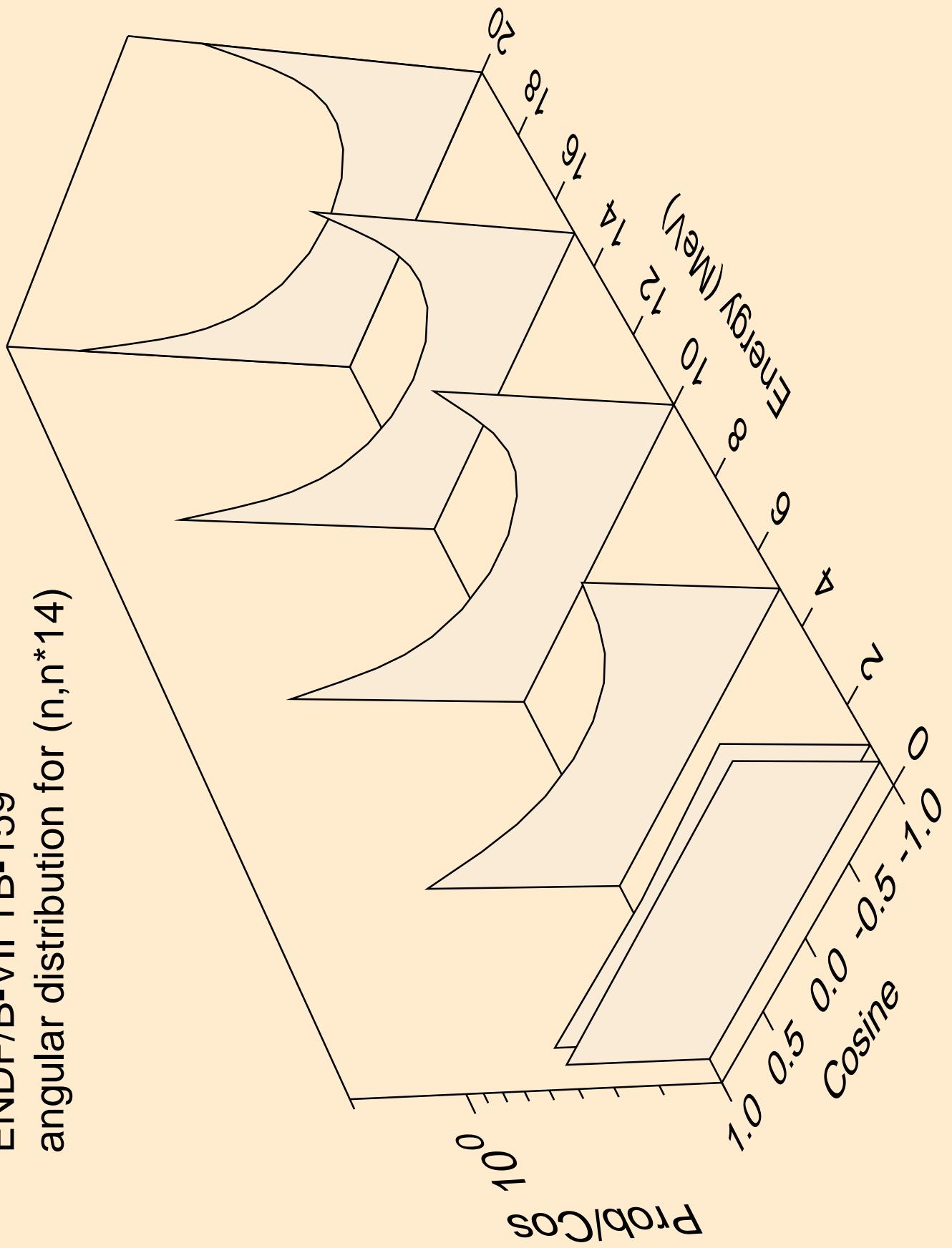
Prob/Cos

1.0 0.5 0.0 -0.5 -1.0  
Cosine



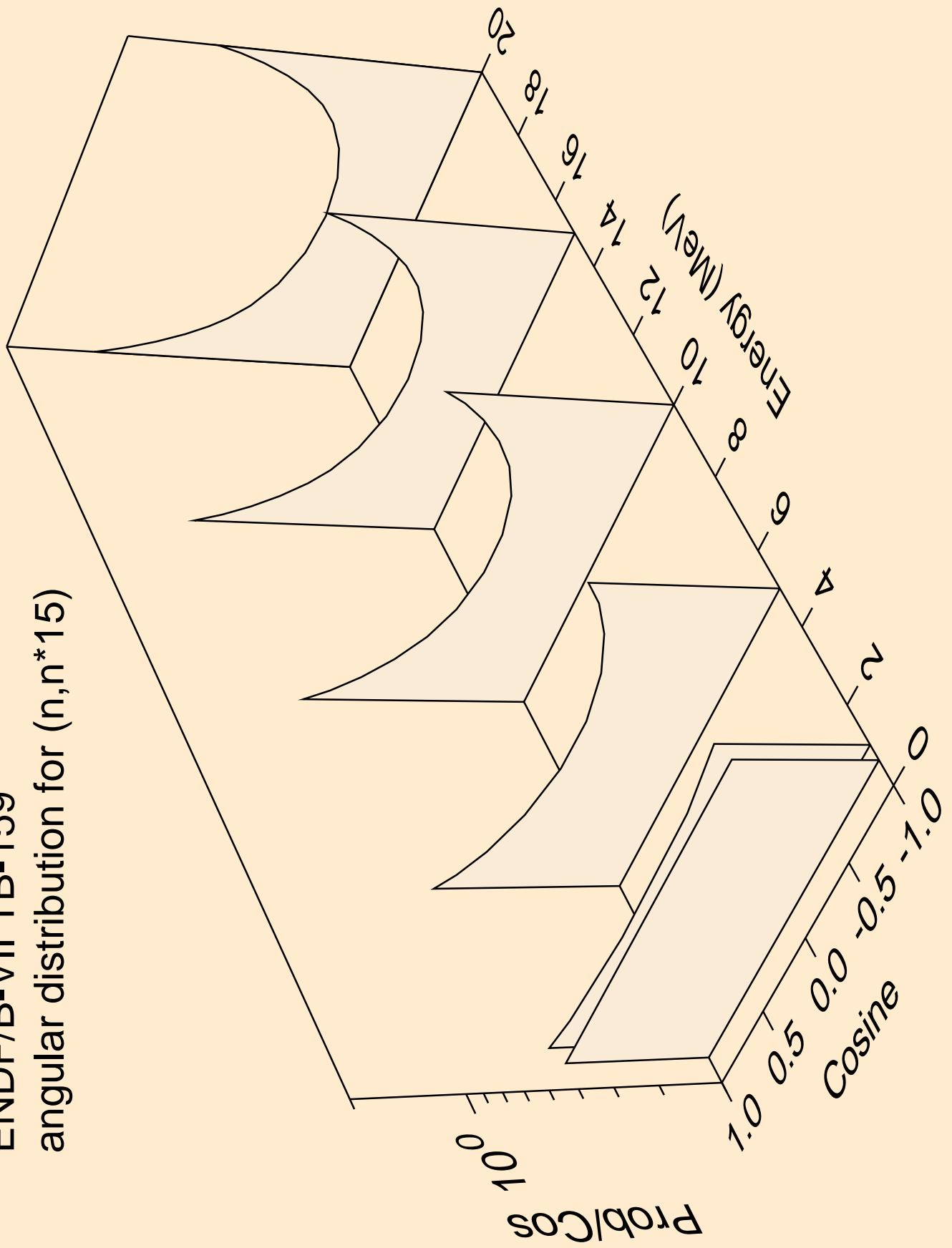
ENDF/B-VII TB-159

angular distribution for ( $n,n^*14$ )



ENDF/B-VII TB-159

angular distribution for (n,n\*15)



ENDF/B-VII TB-159

angular distribution for (n,n\*16)

$10^0$

Prob/Cos

1.0 0.5 0.0 -0.5 -1.0  
Cosine

20  
18  
16  
14  
12  
10  
8  
Energy (MeV)

20

18

16

14

12

10

8

6

4

2

0

ENDF/B-VII TB-159

angular distribution for  $(n,n^*17)$

$10^0$

Prob/Cos

1.0 0.5 0.0 -0.5 -1.0  
Cosine

20  
18  
16  
14  
12  
10  
8  
Energy (MeV)

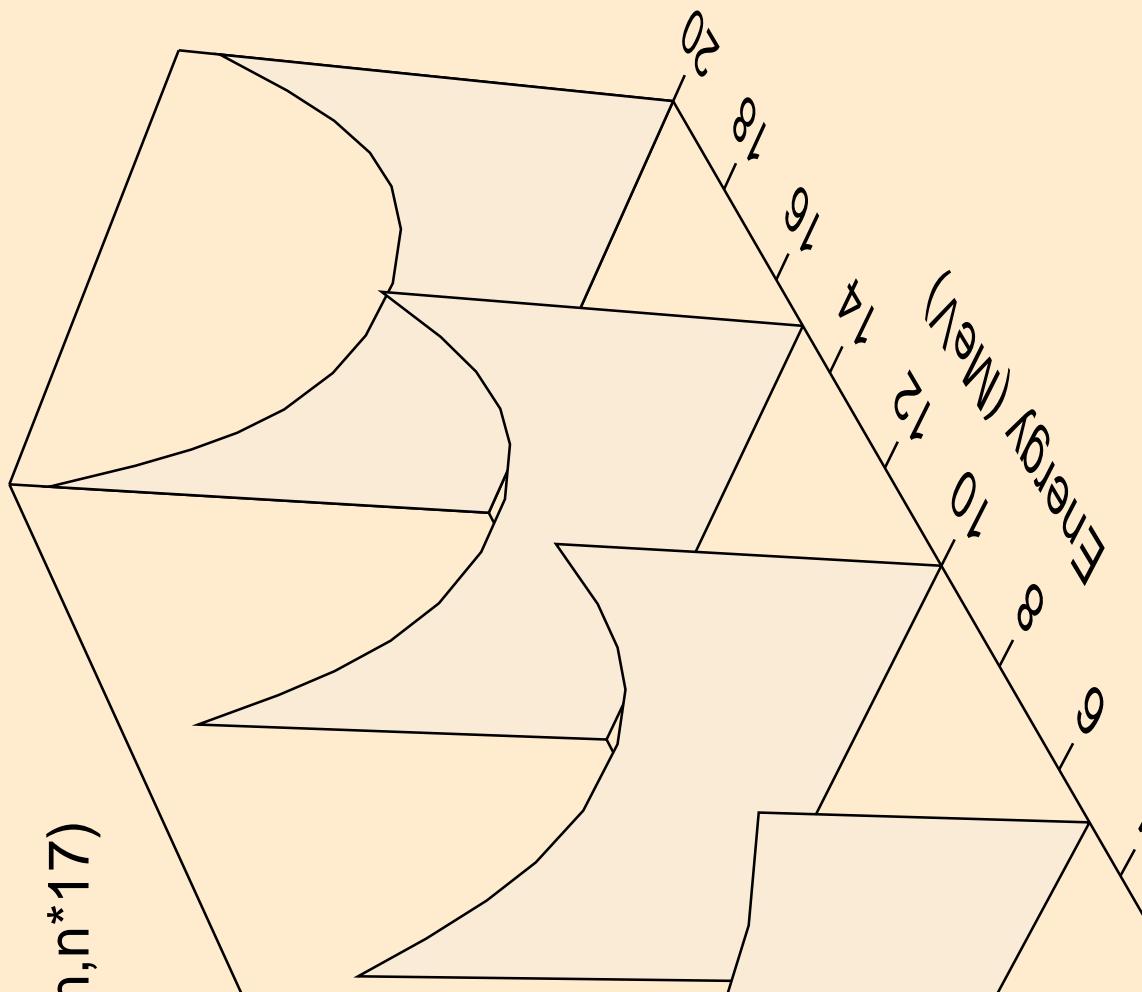
6  
4  
2  
0

-2  
-4  
-6

-8  
-10  
-12  
-14  
-16  
-18  
-20

-22  
-24  
-26  
-28  
-30  
-32  
-34  
-36  
-38  
-40

-42  
-44  
-46  
-48  
-50  
-52  
-54  
-56  
-58  
-60  
-62  
-64  
-66  
-68  
-70  
-72  
-74  
-76  
-78  
-80  
-82  
-84  
-86  
-88  
-90  
-92  
-94  
-96  
-98  
-100



ENDF/B-VII TB-159

angular distribution for  $(n,n^*18)$

$10^0$

Prob/Cos

1.0 0.5 0.0 -0.5 -1.0  
Cosine

Energy (MeV)  
10 8 6 4 2 0

20

18

16

14

12

10

8

6

4

2

0

ENDF/B-VII TB-159

angular distribution for (n,n\*19)

$10^0$

Prob/Cos

1.0 0.5 0.0 -0.5 -1.0  
Cosine

Energ (MeV)

0.8

0.6

0.4

0.2

0.0

-0.2

-0.4

-0.6

-0.8

-1.0

20

18

16

14

12

10

8

6

4

2

0

ENDF/B-VII TB-159

angular distribution for  $(n,n^*20)$

$10^0$

Prob/Cos

1.0 0.5 0.0 -0.5 -1.0  
Cosine

20  
18  
16  
14  
12  
10  
Energ (MeV)

20

18

16

14

12

10

8

6

4

2

0

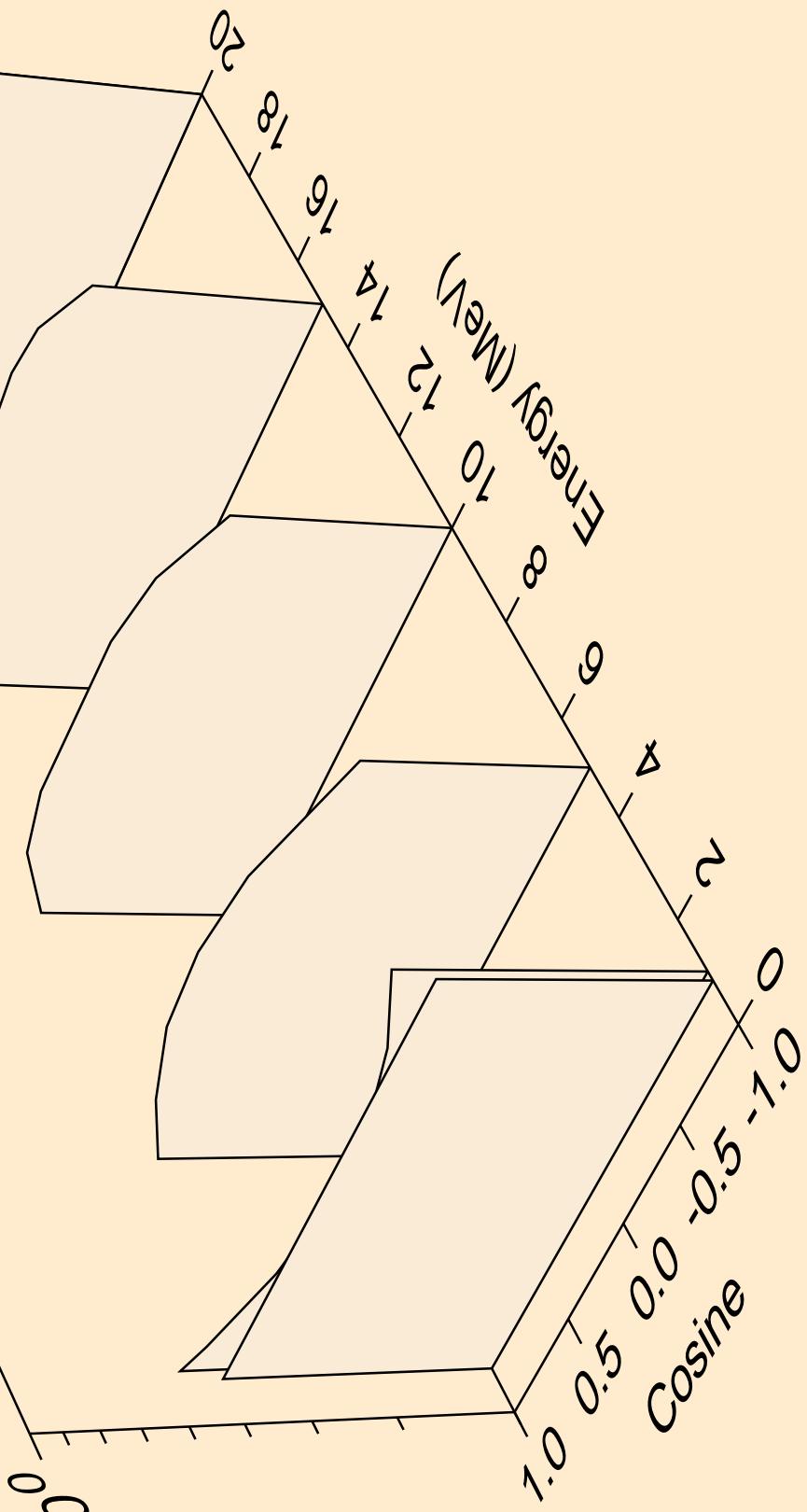
ENDF/B-VII TB-159

angular distribution for ( $n,n^*21$ )

$10^0$

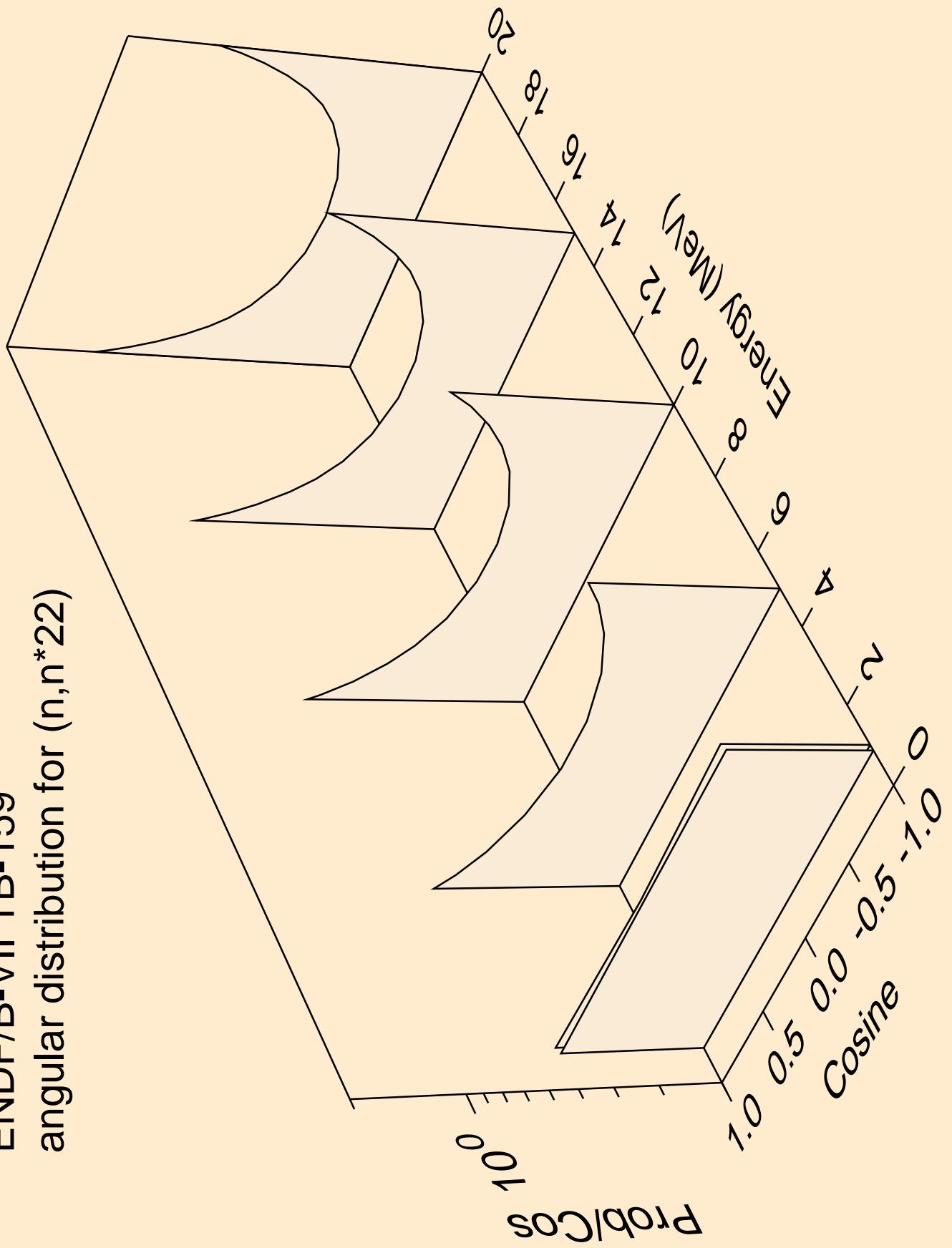
Prob/Cos

1.0 0.5 0.0 -0.5 -1.0  
Cosine



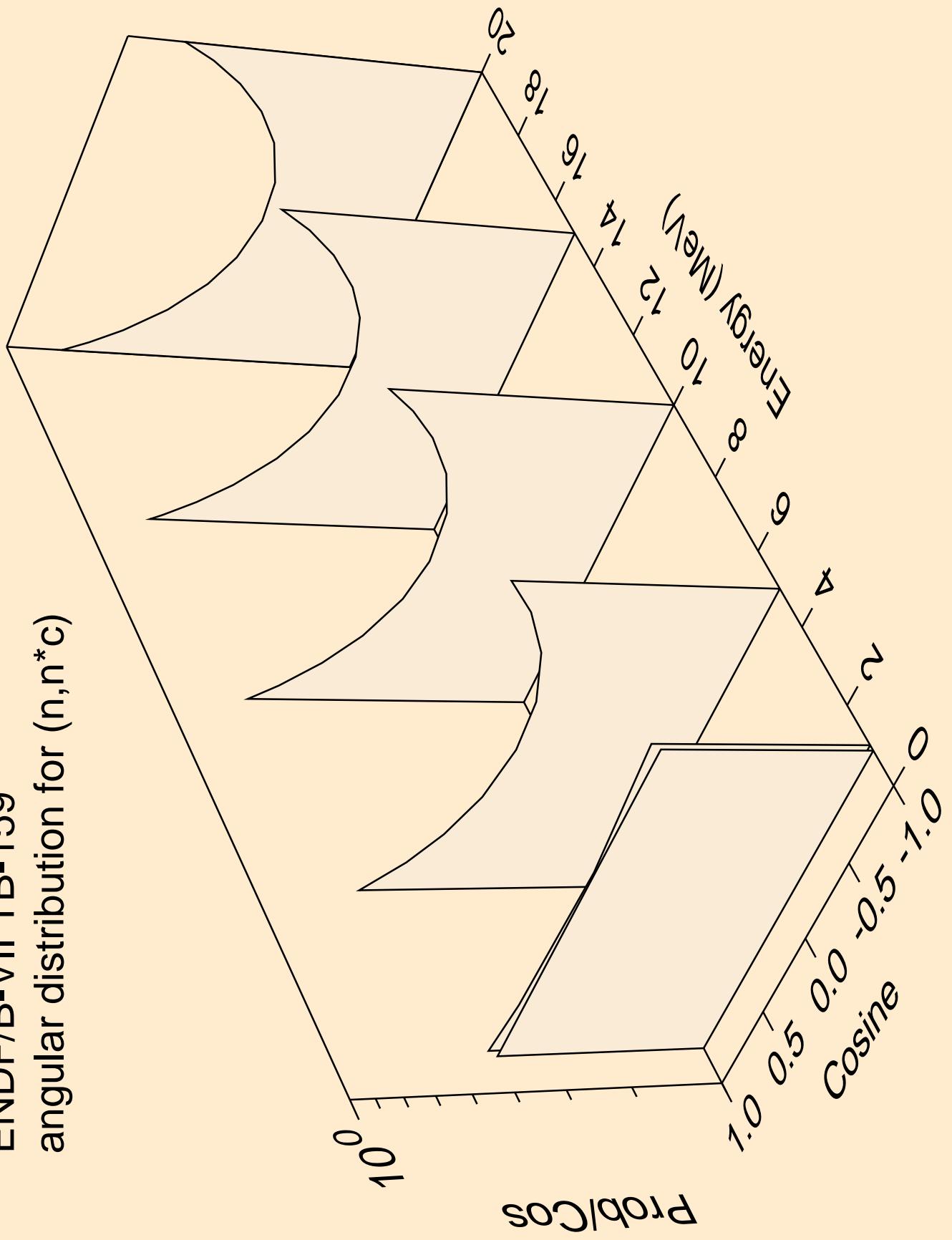
ENDF/B-VII TB-159

angular distribution for  $(n,n^*22)$



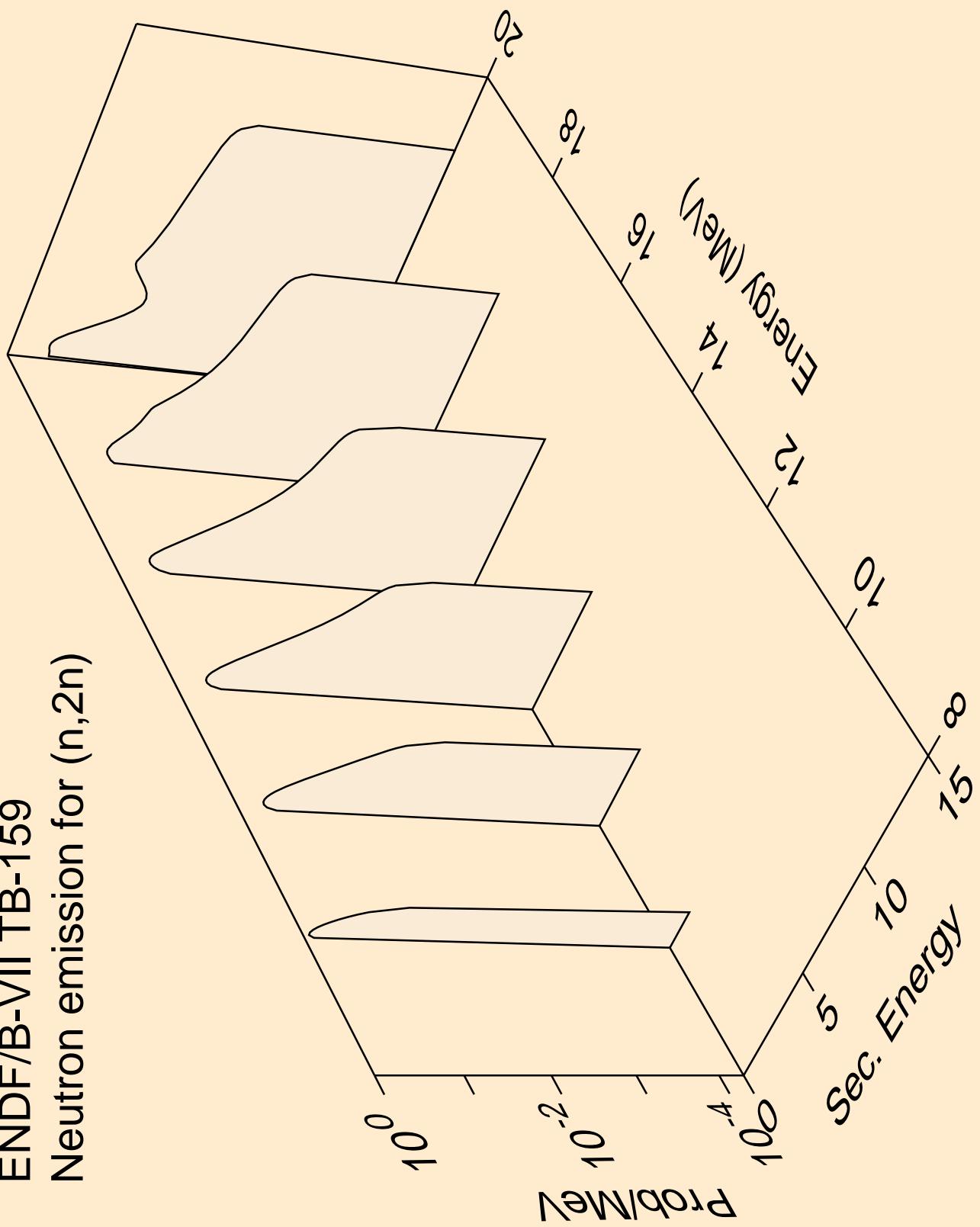
ENDF/B-VII TB-159

angular distribution for  $(n, n^*c)$



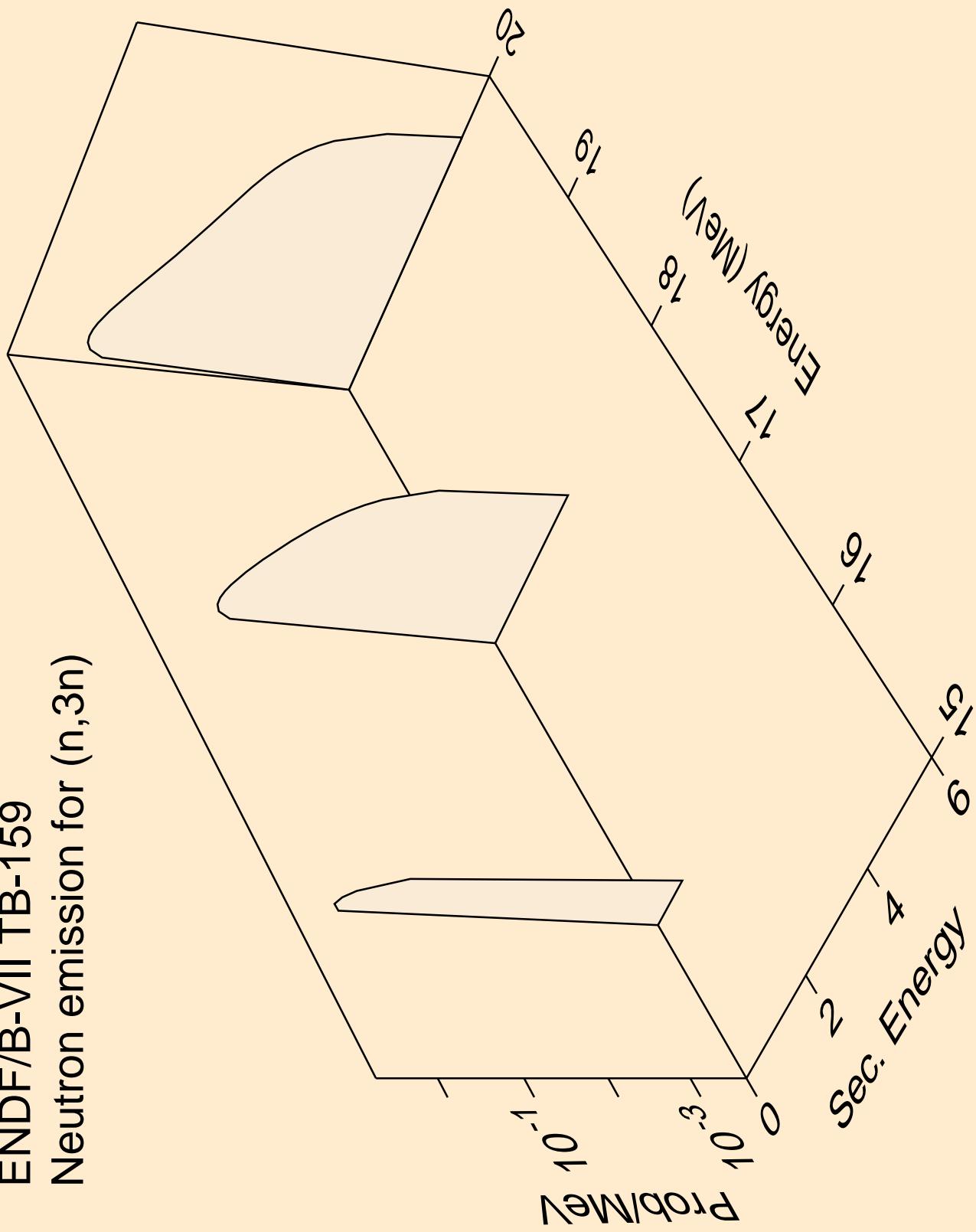
ENDF/B-VII TB-159

Neutron emission for  $(n,2n)$



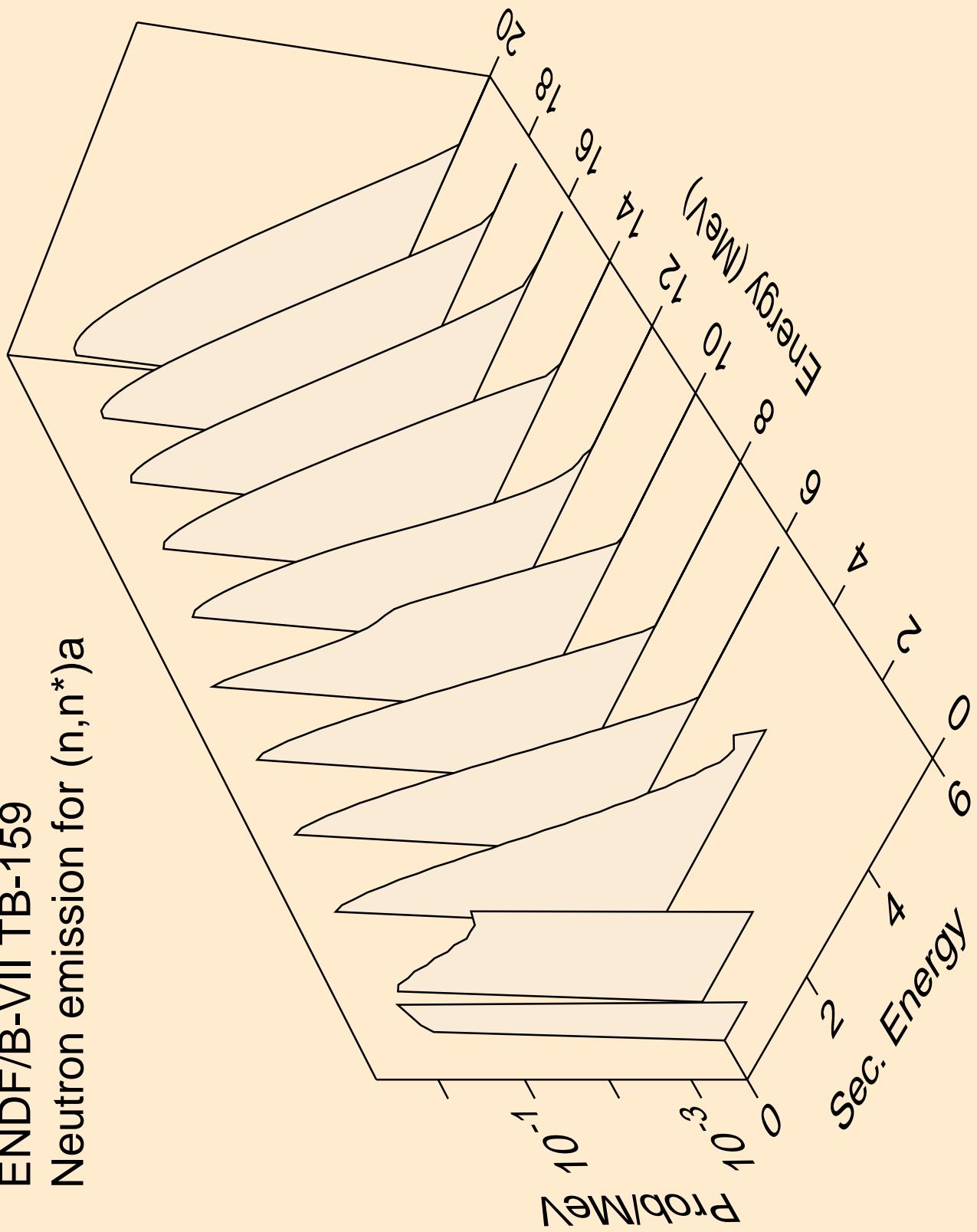
ENDF/B-VII TB-159

Neutron emission for  $(n,3n)$



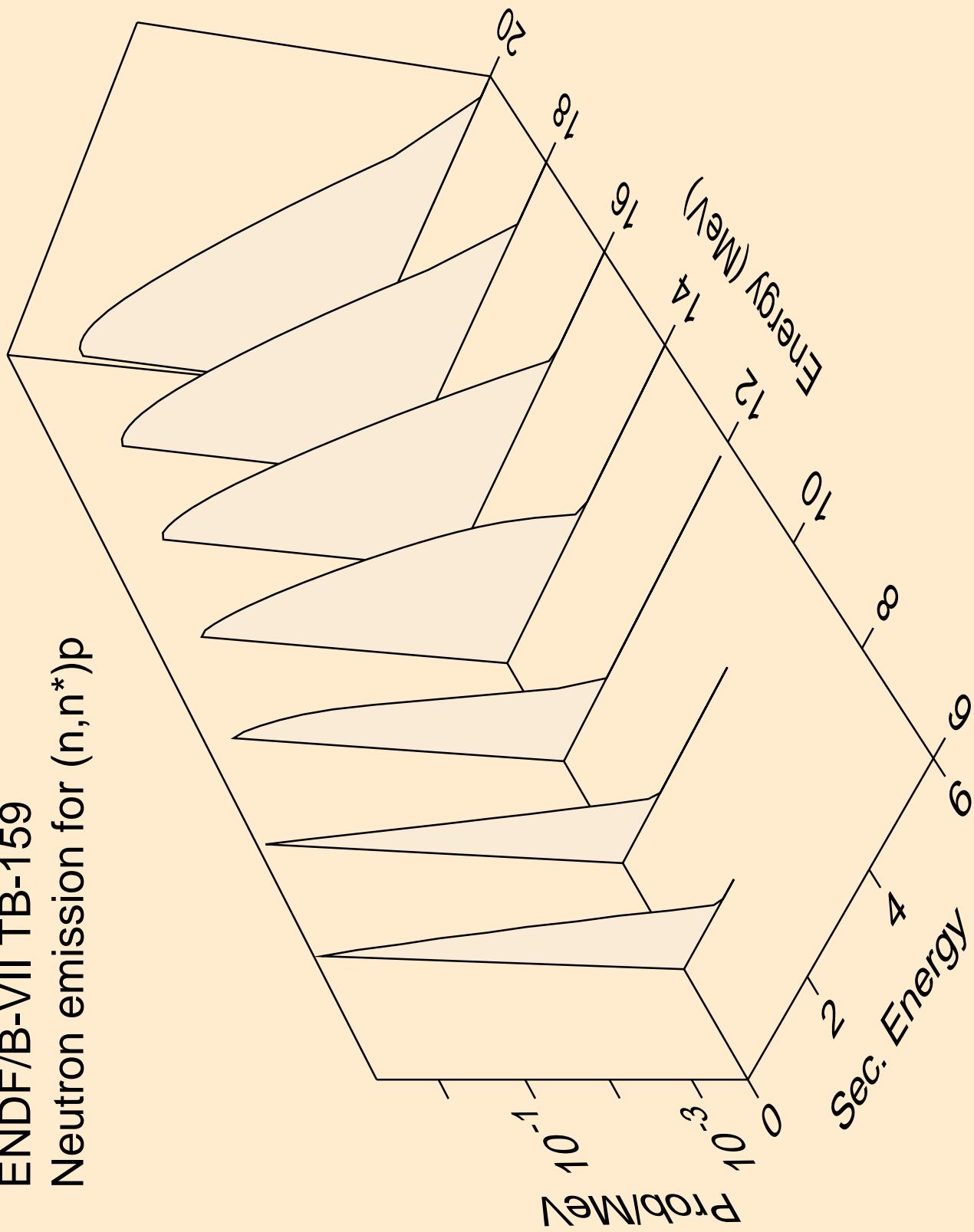
ENDF/B-VII TB-159

Neutron emission for  $(n, n^*)a$



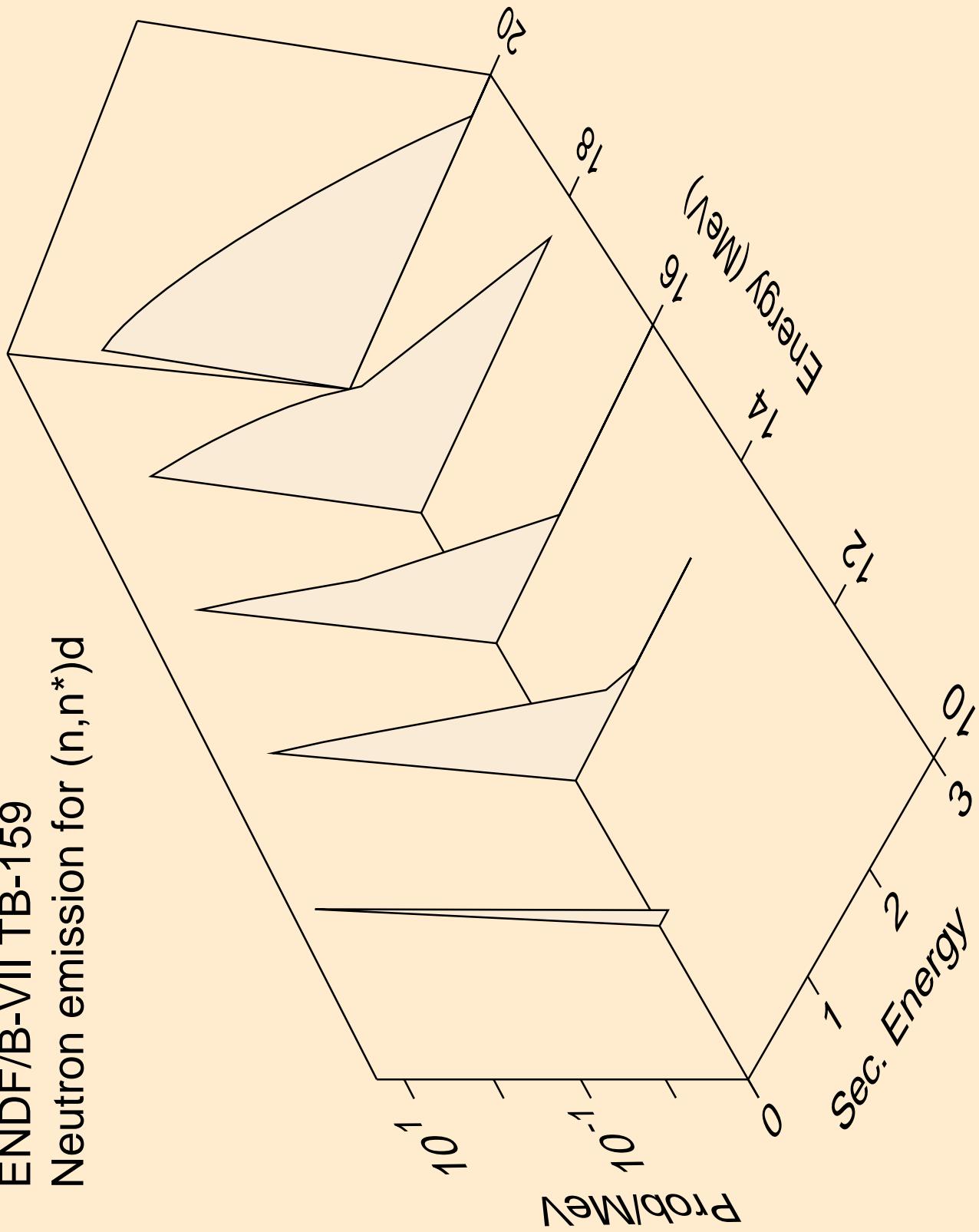
ENDF/B-VII TB-159

Neutron emission for  $(n, n^*)p$



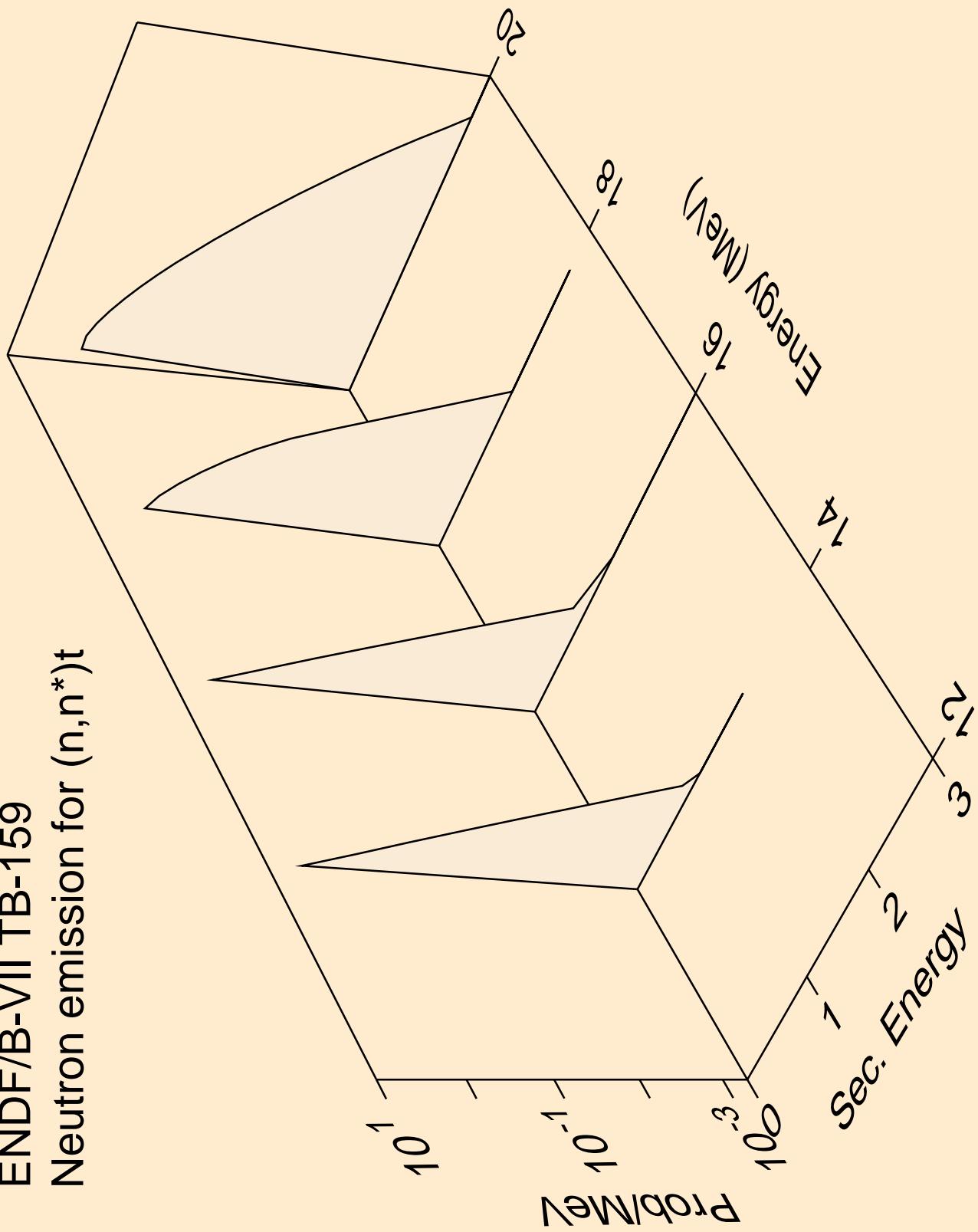
ENDF/B-VII TB-159

Neutron emission for  $(n, n^*)d$



ENDF/B-VII TB-159

Neutron emission for  $(n, n^*)t$



ENDF/B-VII TB-159

Neutron emission for  $(n, n^* c)$

