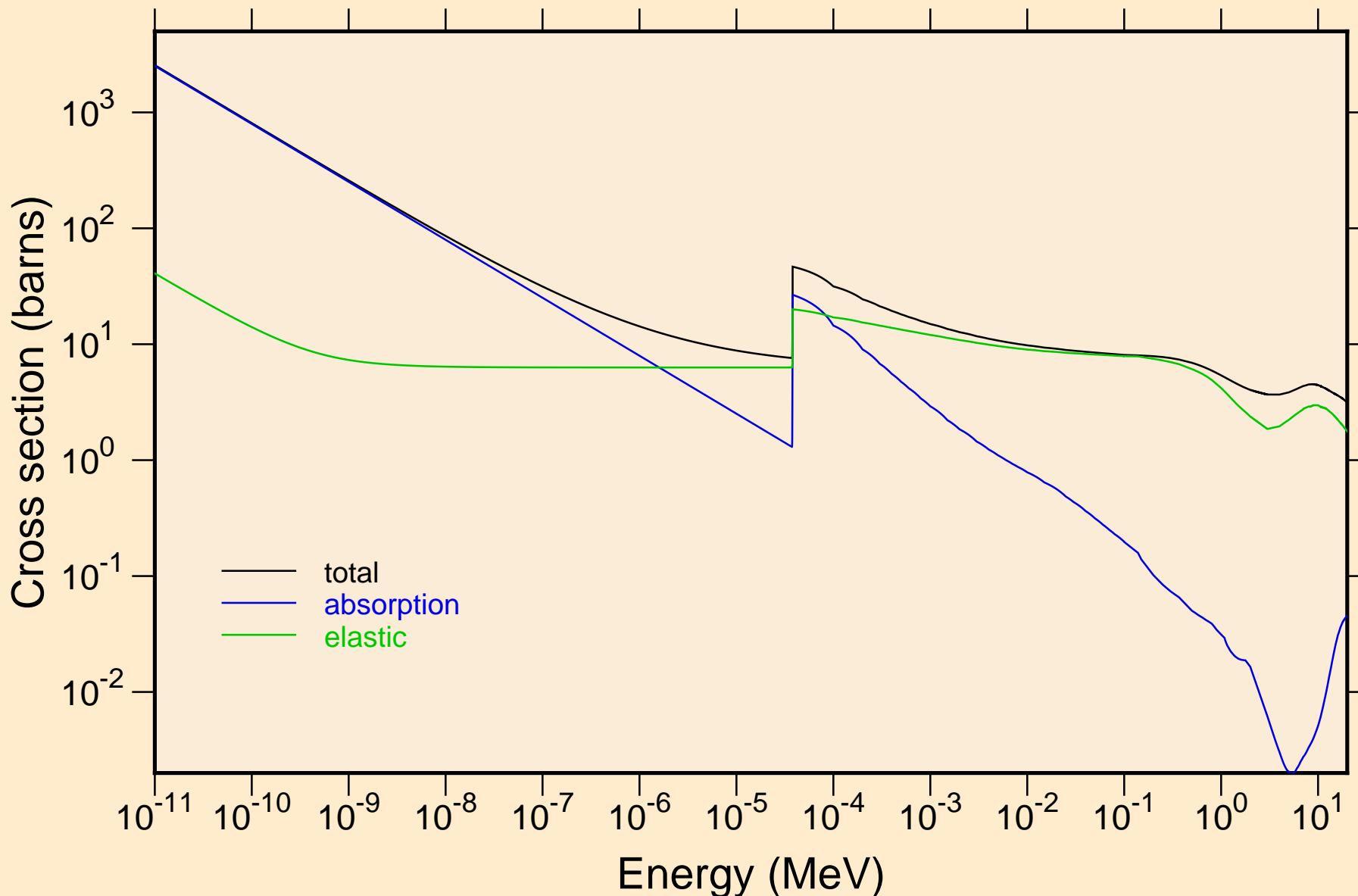
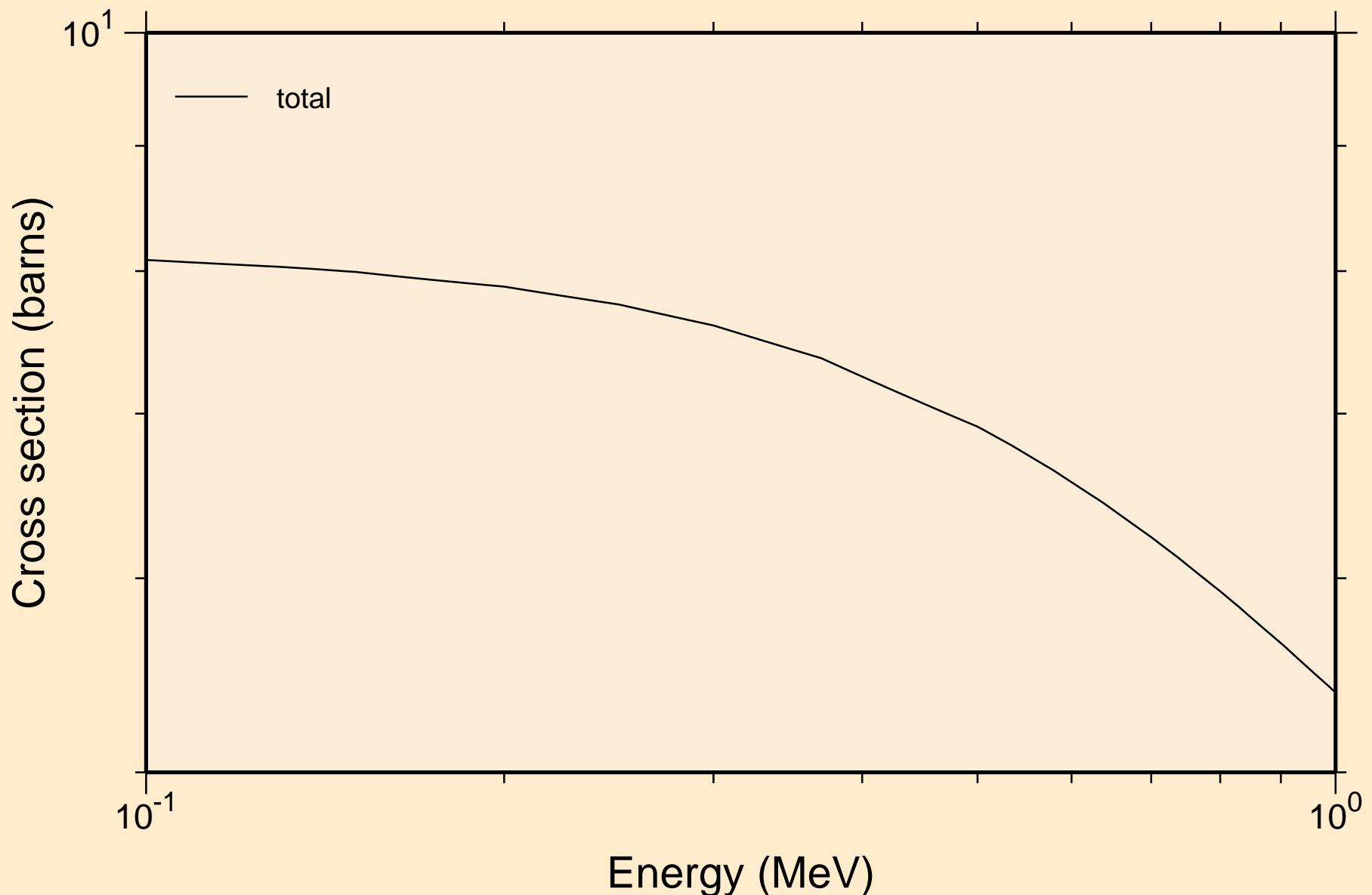


# ENDF/B-VII SE-79

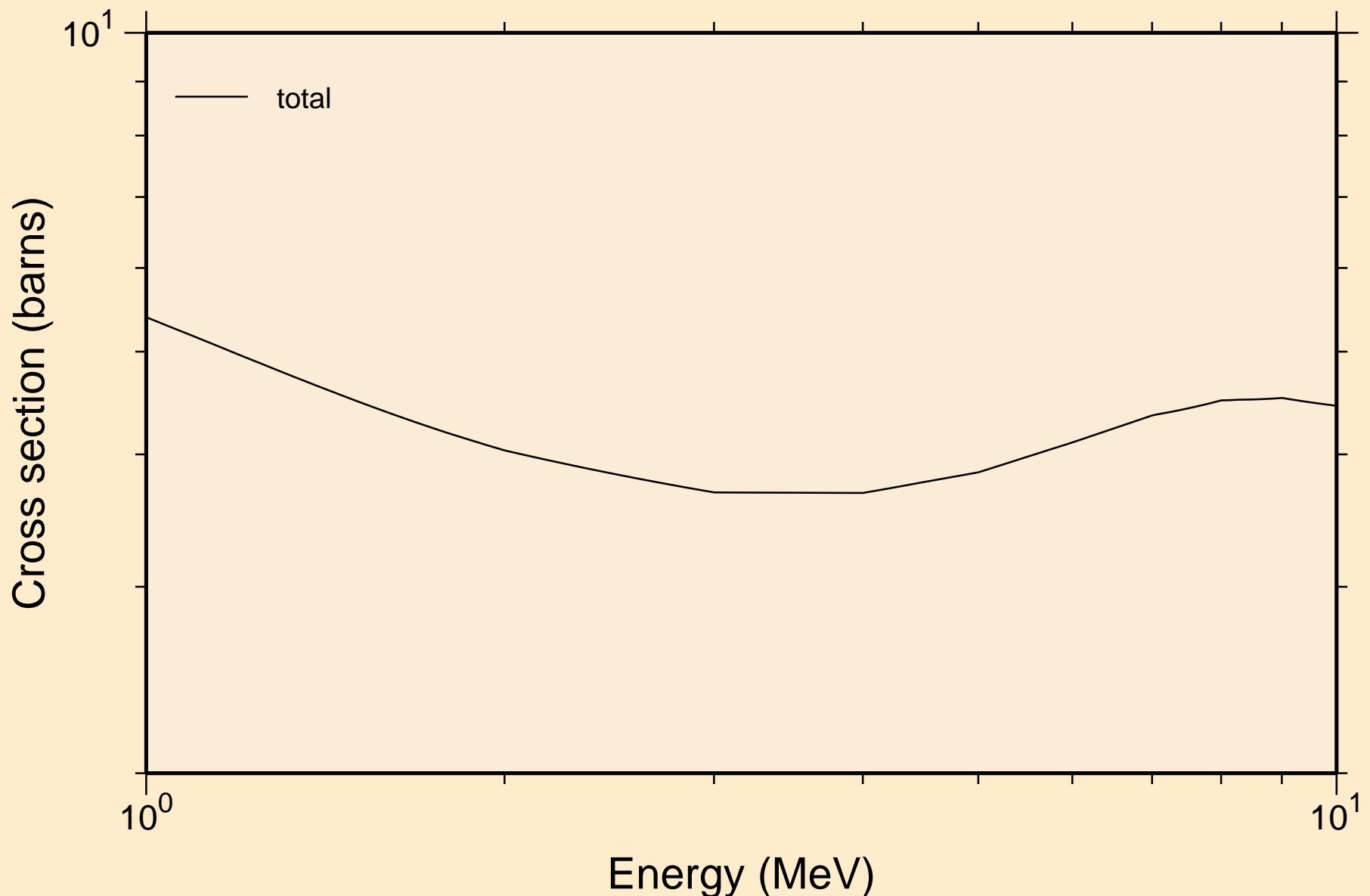
## Principal cross sections



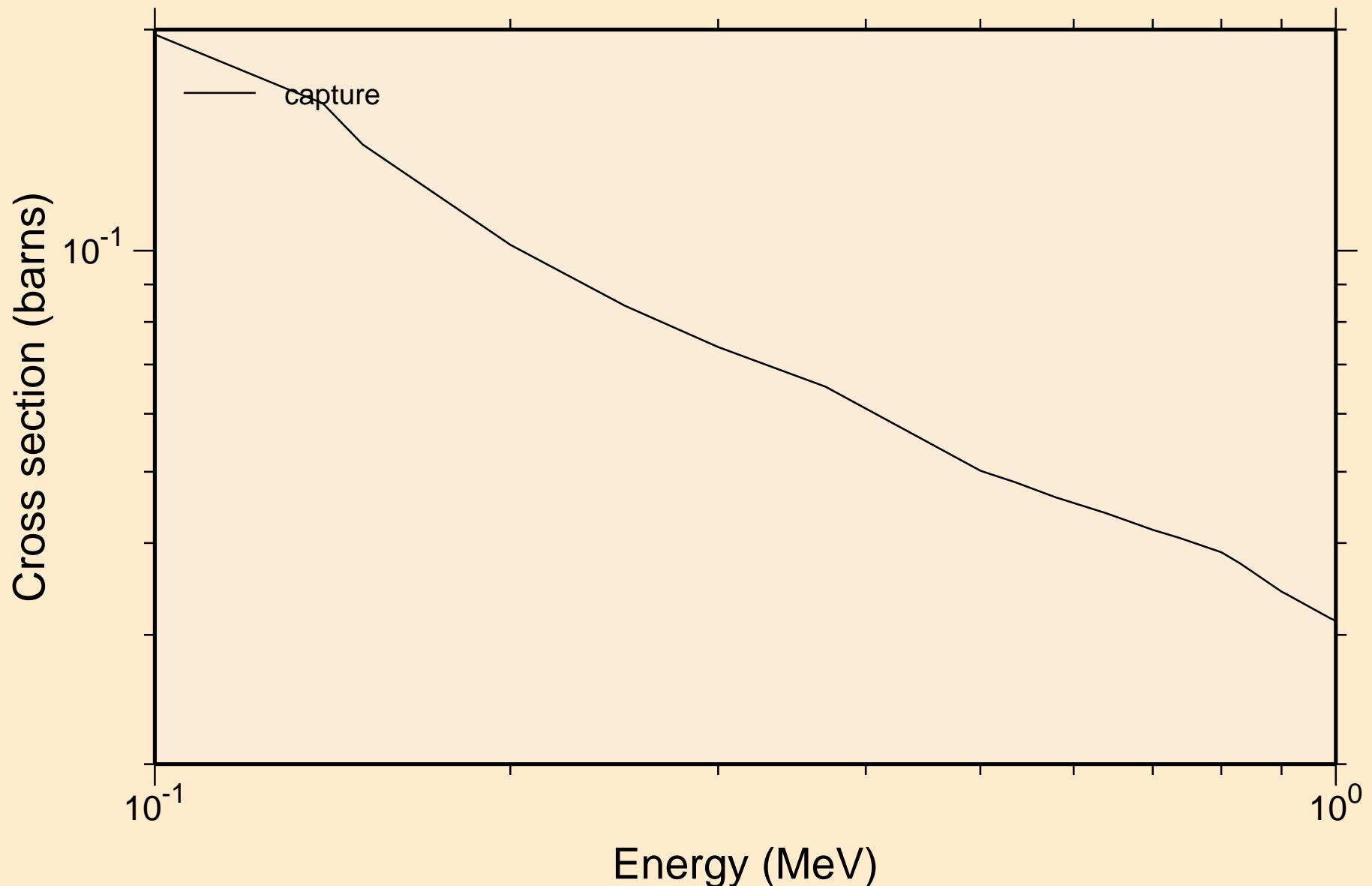
ENDF/B-VII SE-79  
resonance total cross section



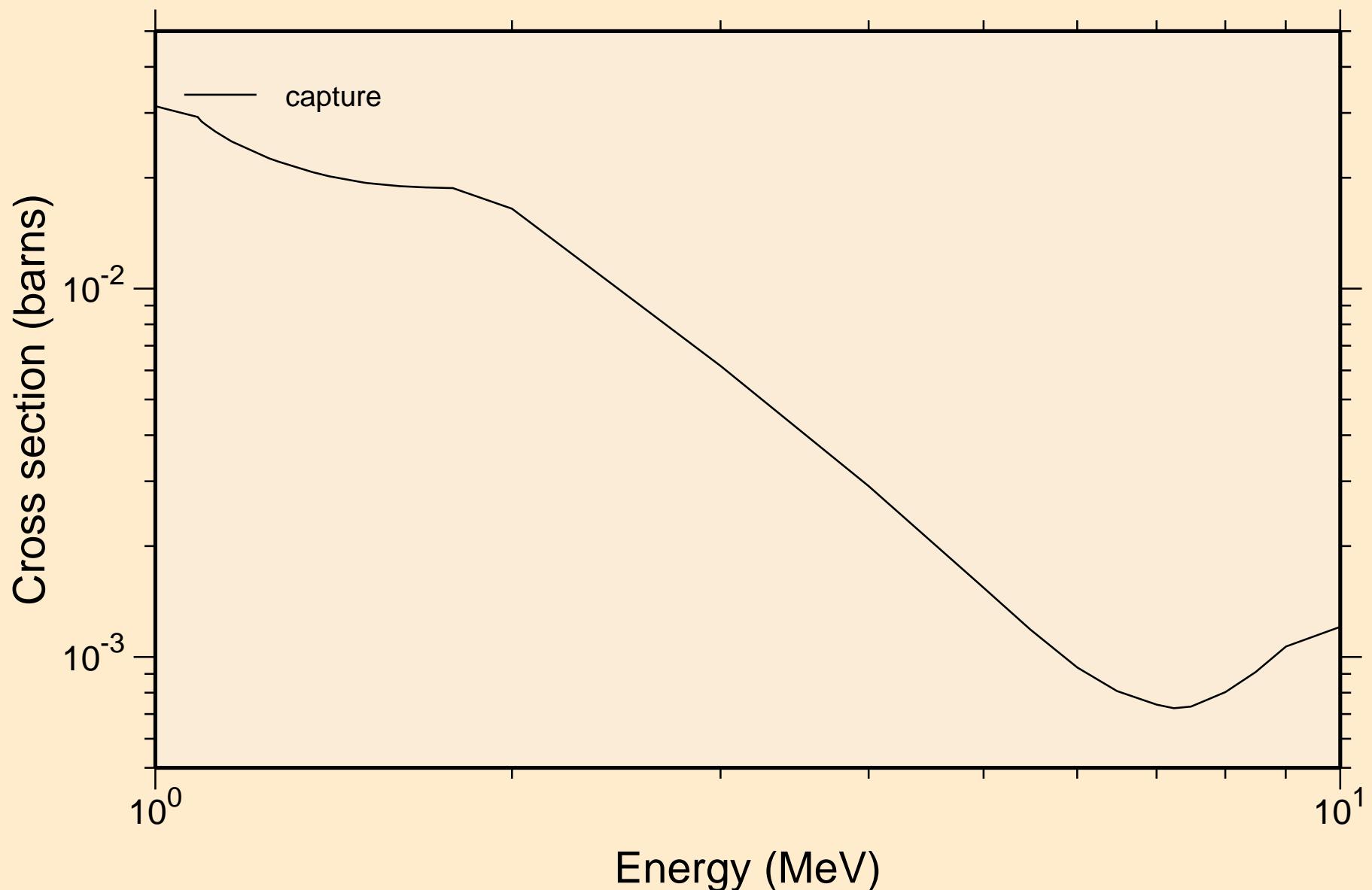
ENDF/B-VII SE-79  
resonance total cross section



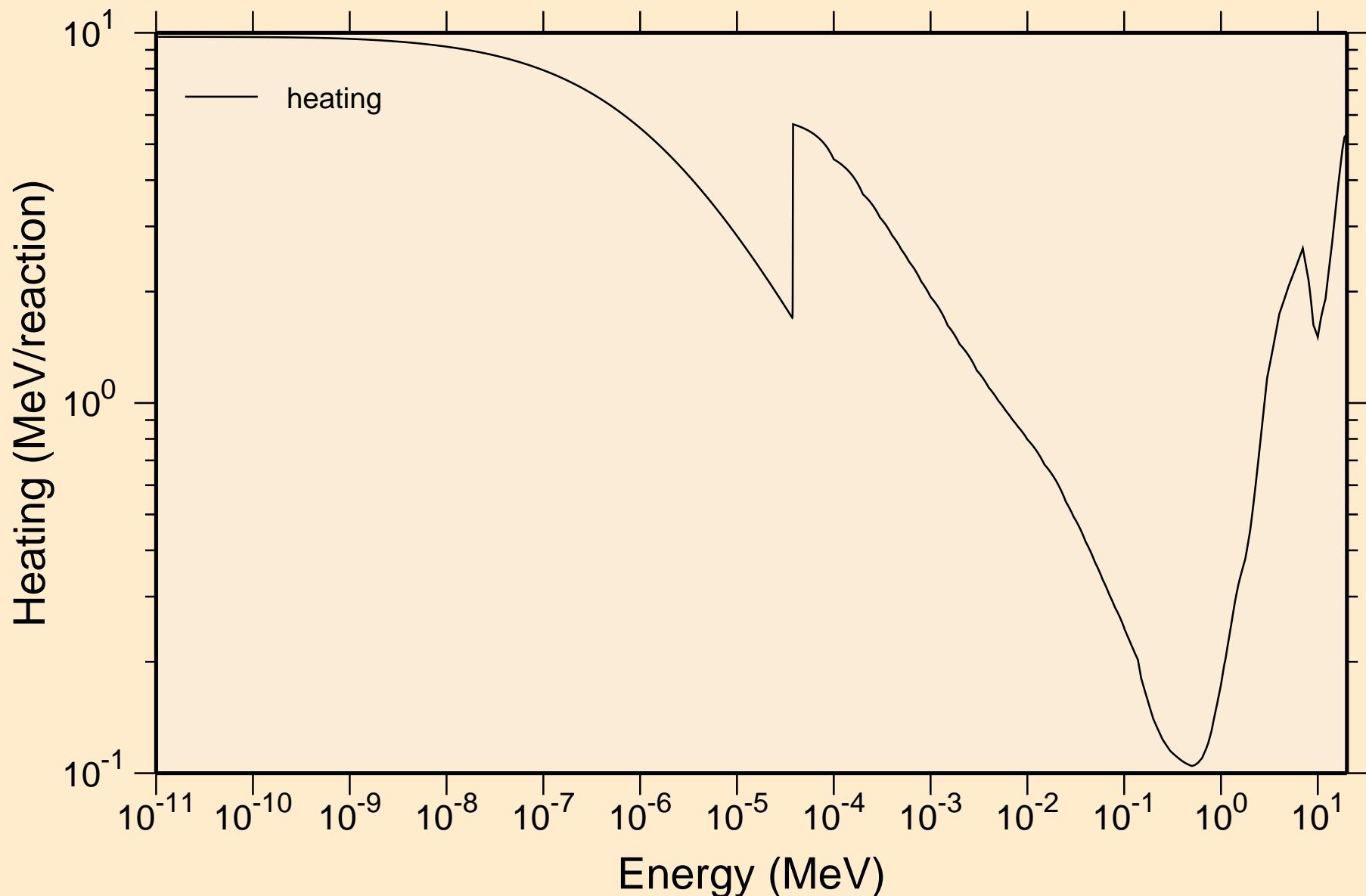
ENDF/B-VII SE-79  
resonance absorption cross sections



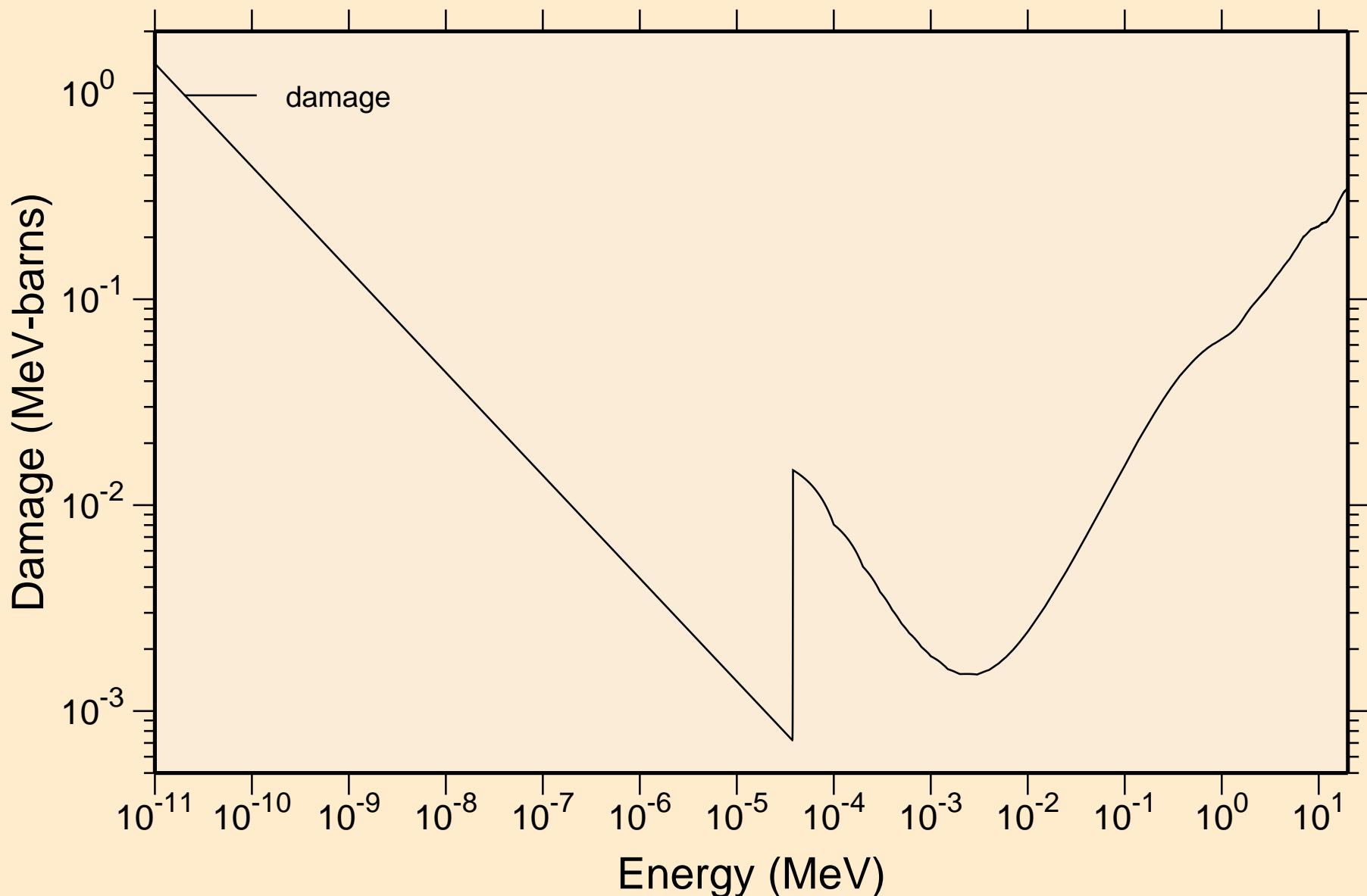
ENDF/B-VII SE-79  
resonance absorption cross sections



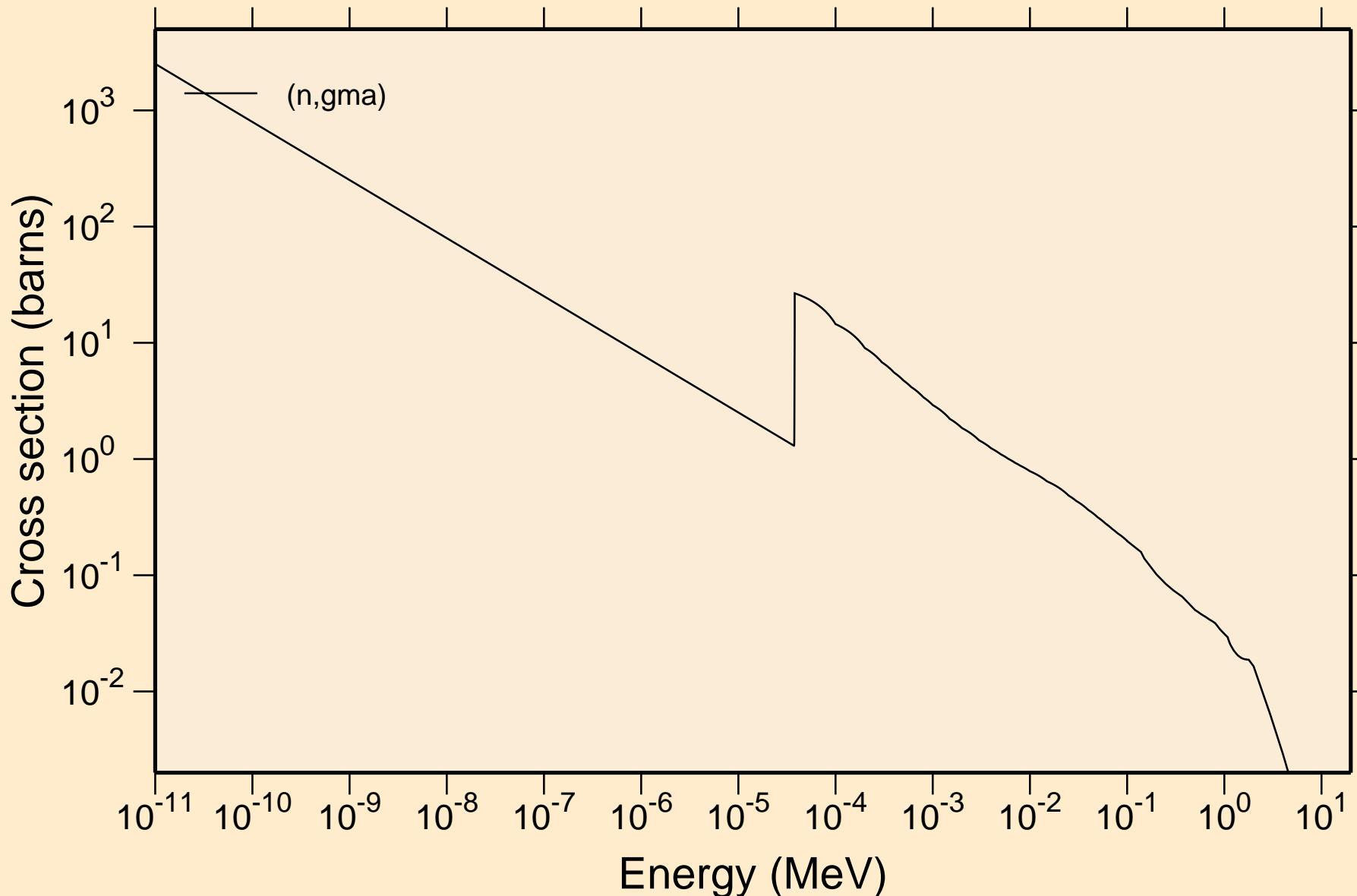
ENDF/B-VII SE-79  
Heating



ENDF/B-VII SE-79  
Damage

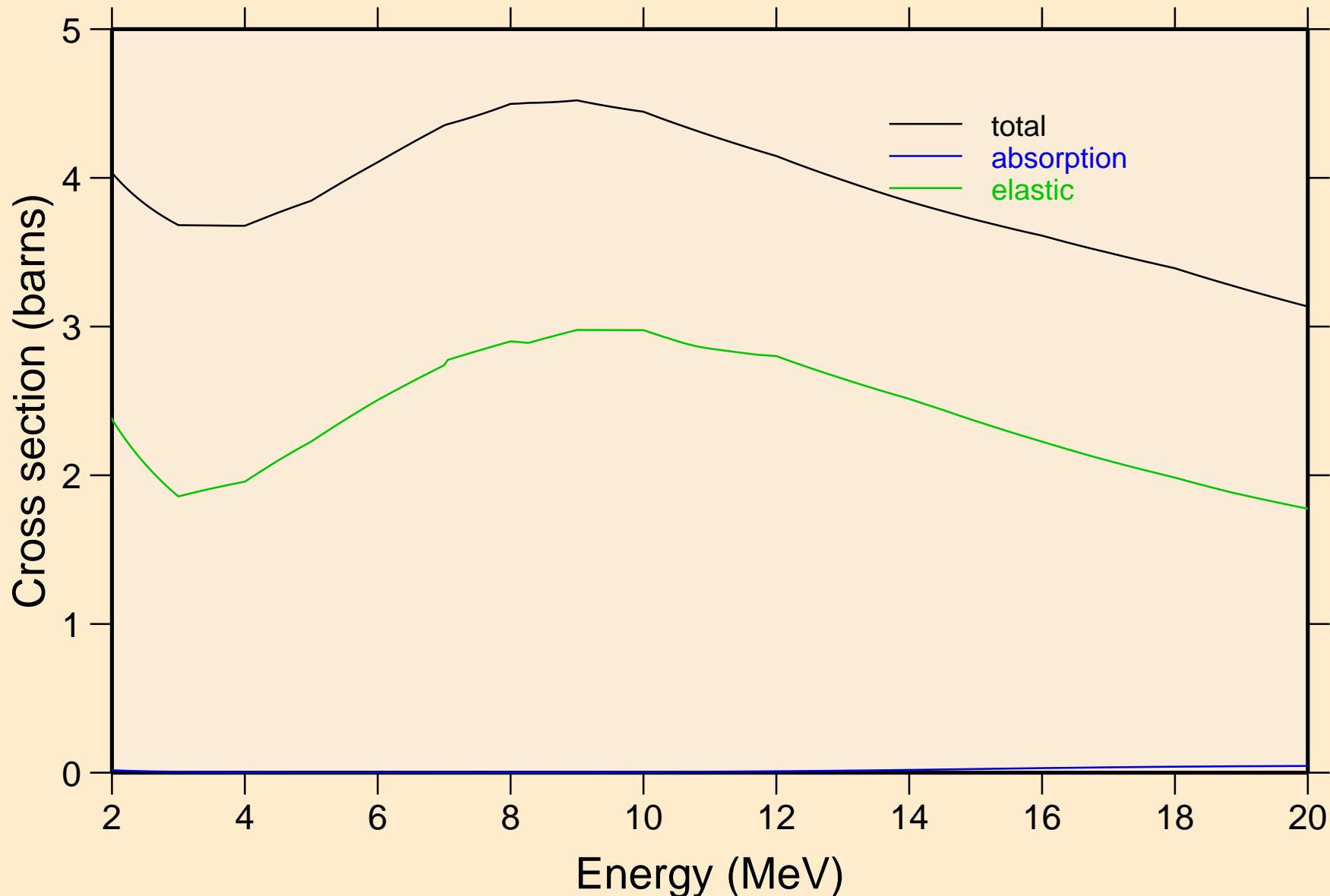


ENDF/B-VII SE-79  
Non-threshold reactions

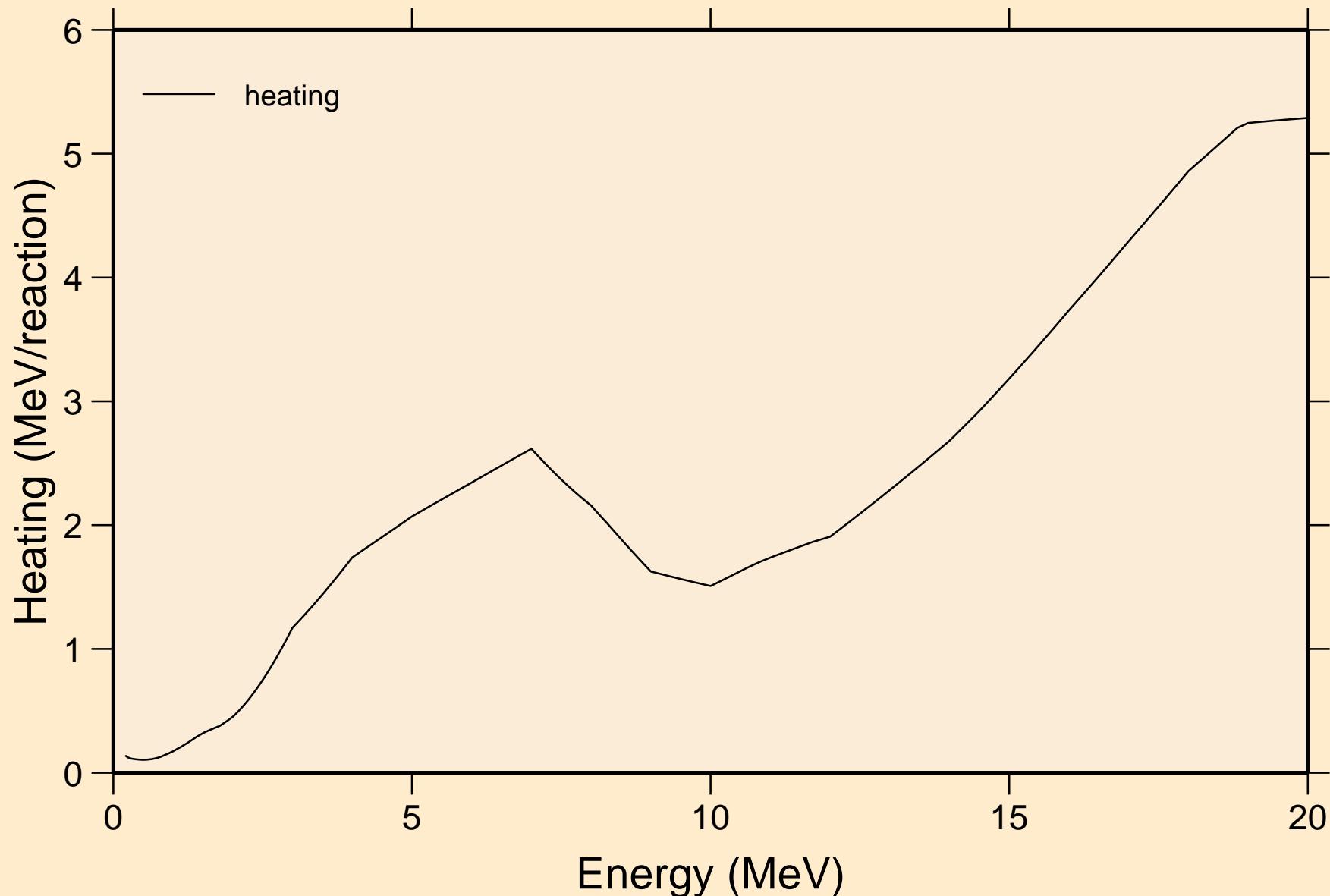


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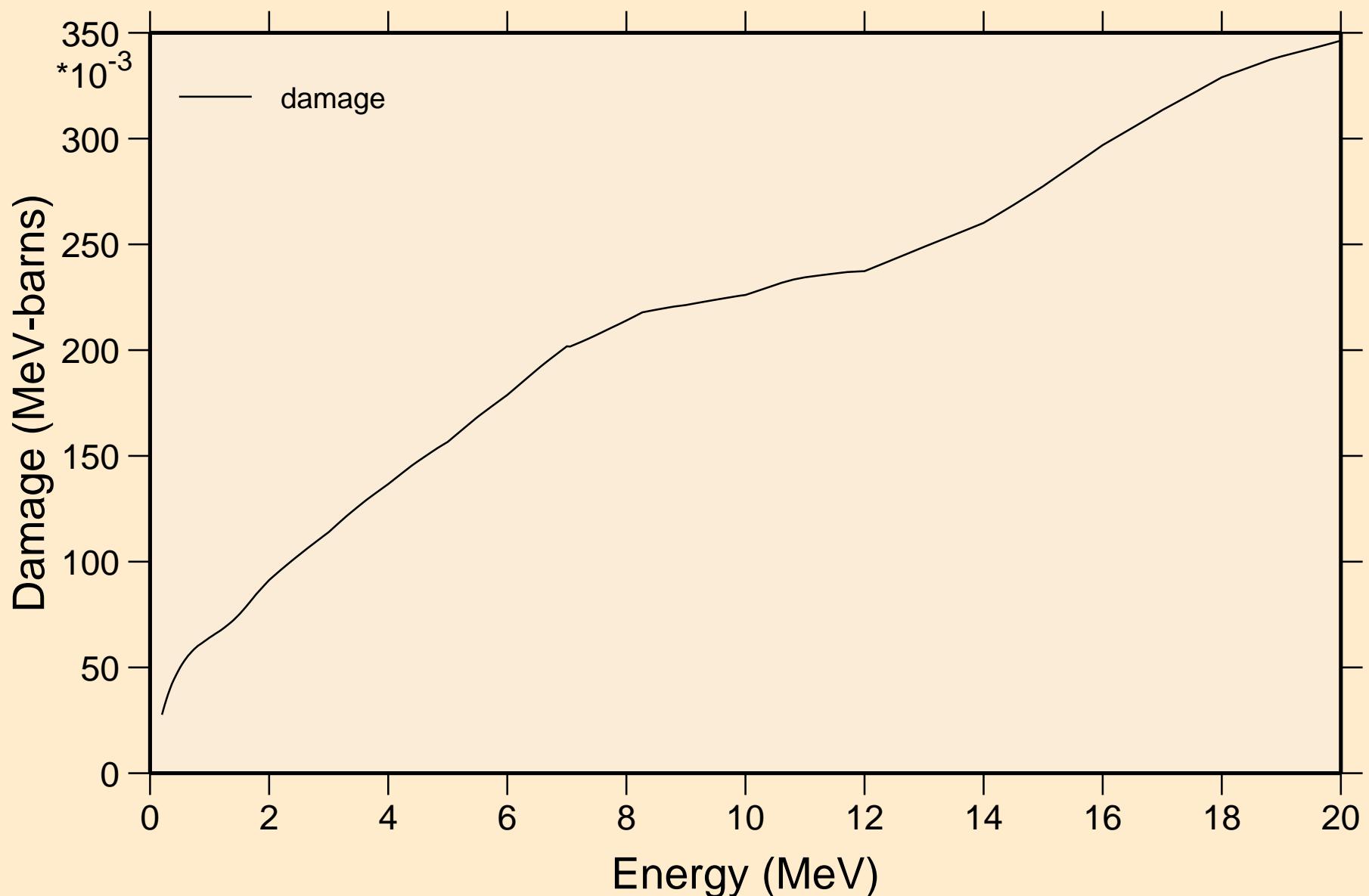
## Principal cross sections



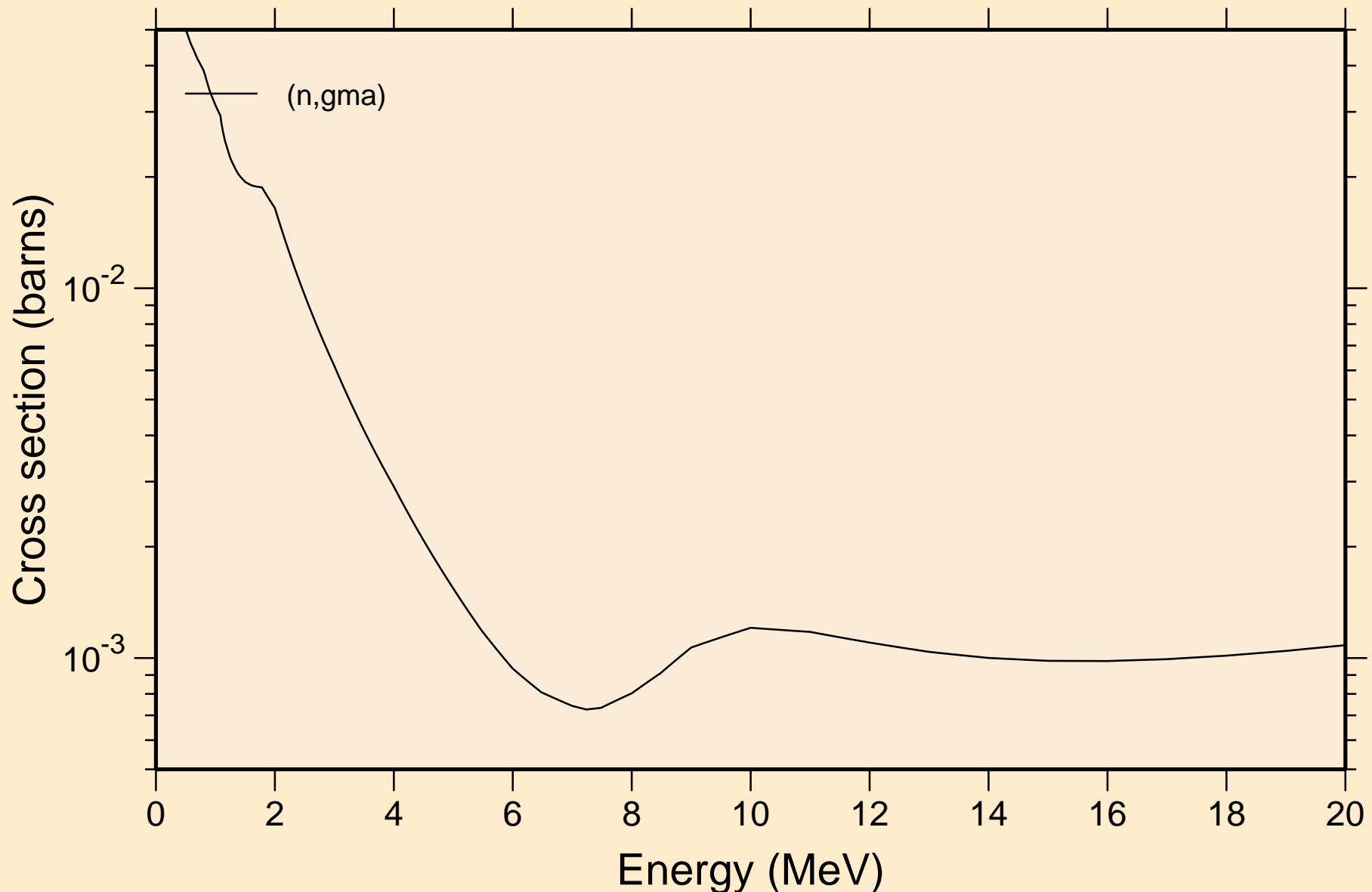
ENDF/B-VII SE-79  
Heating



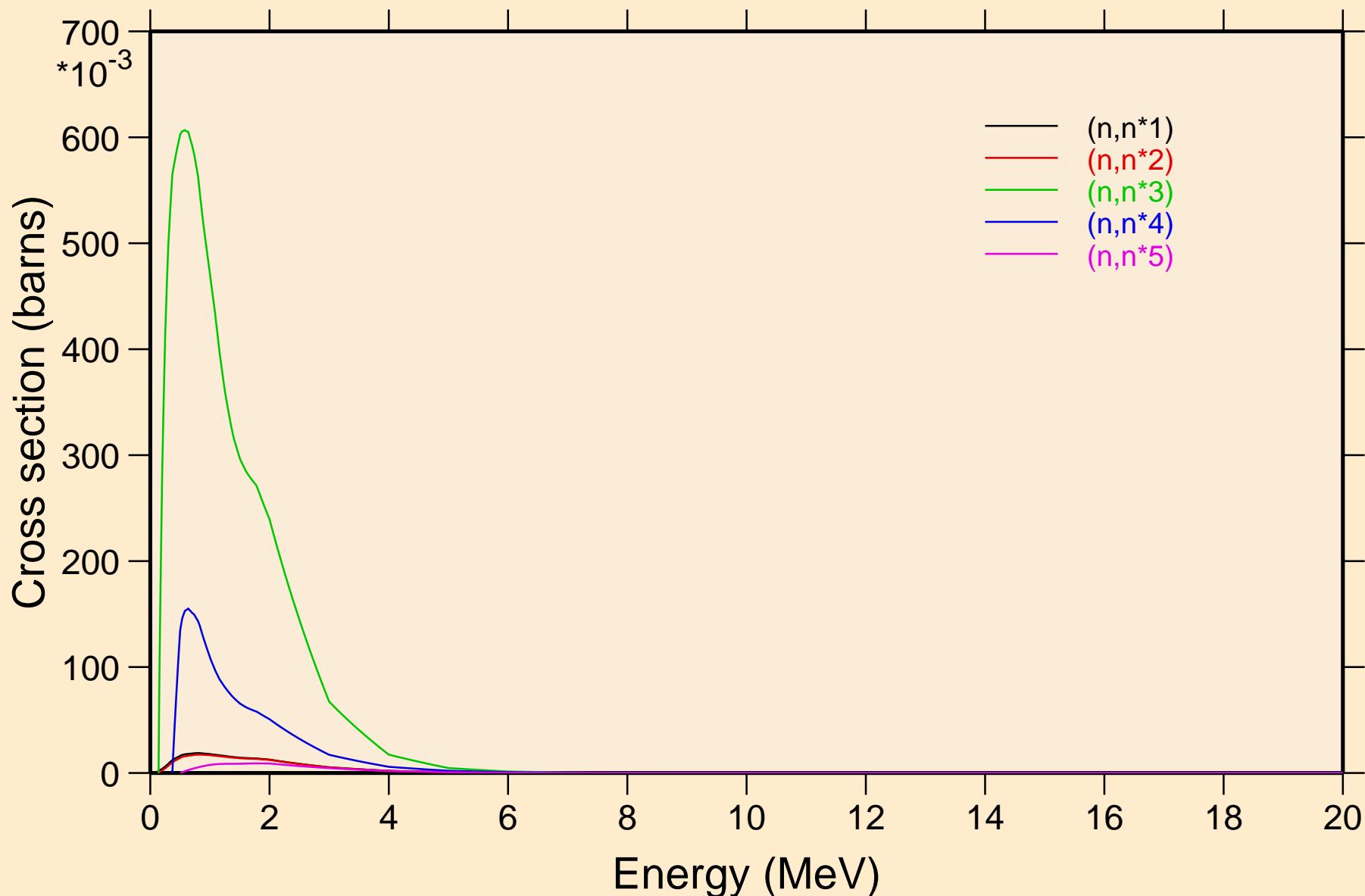
ENDF/B-VII SE-79  
Damage



ENDF/B-VII SE-79  
Non-threshold reactions

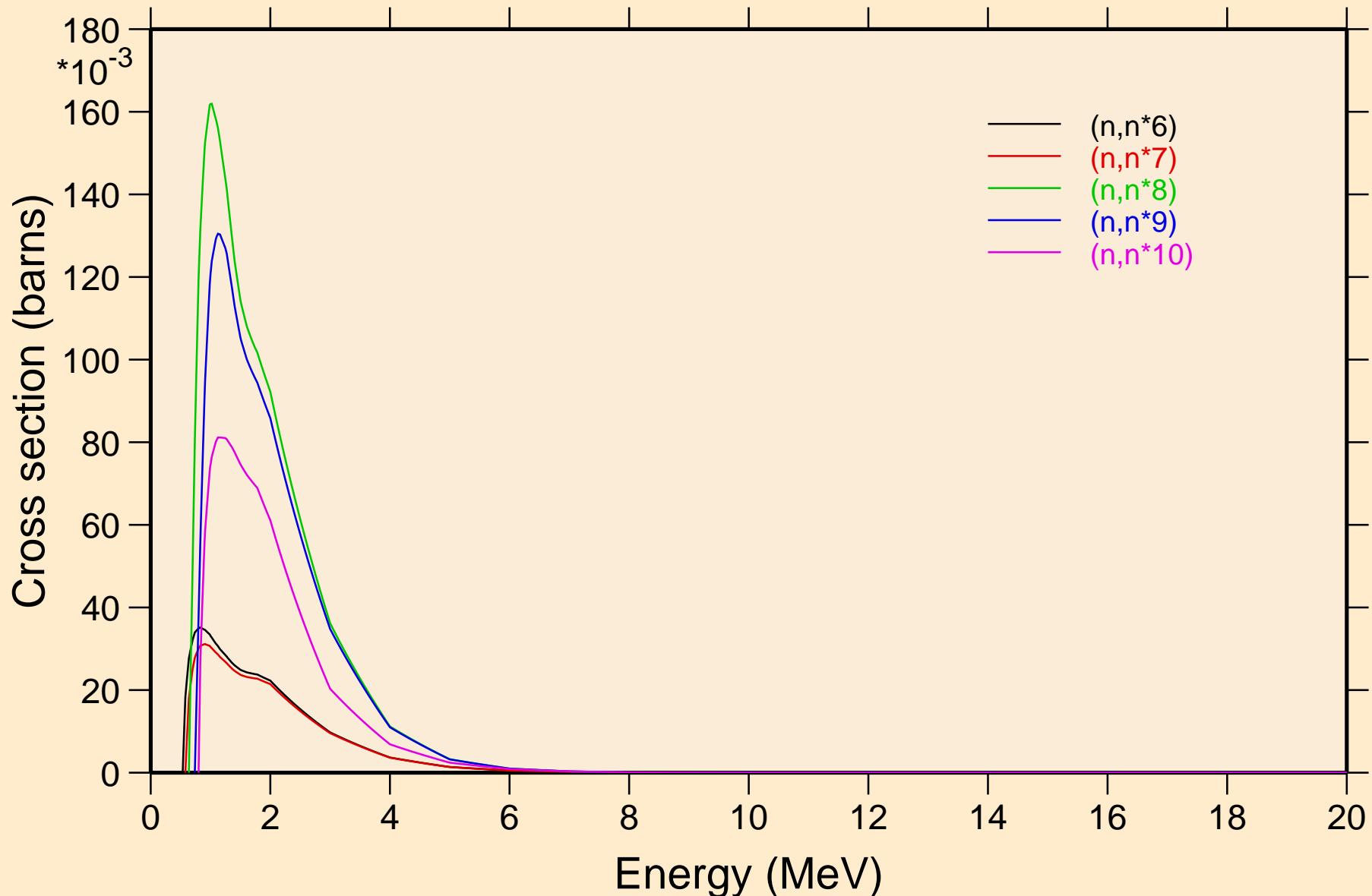


ENDF/B-VII SE-79  
Inelastic levels

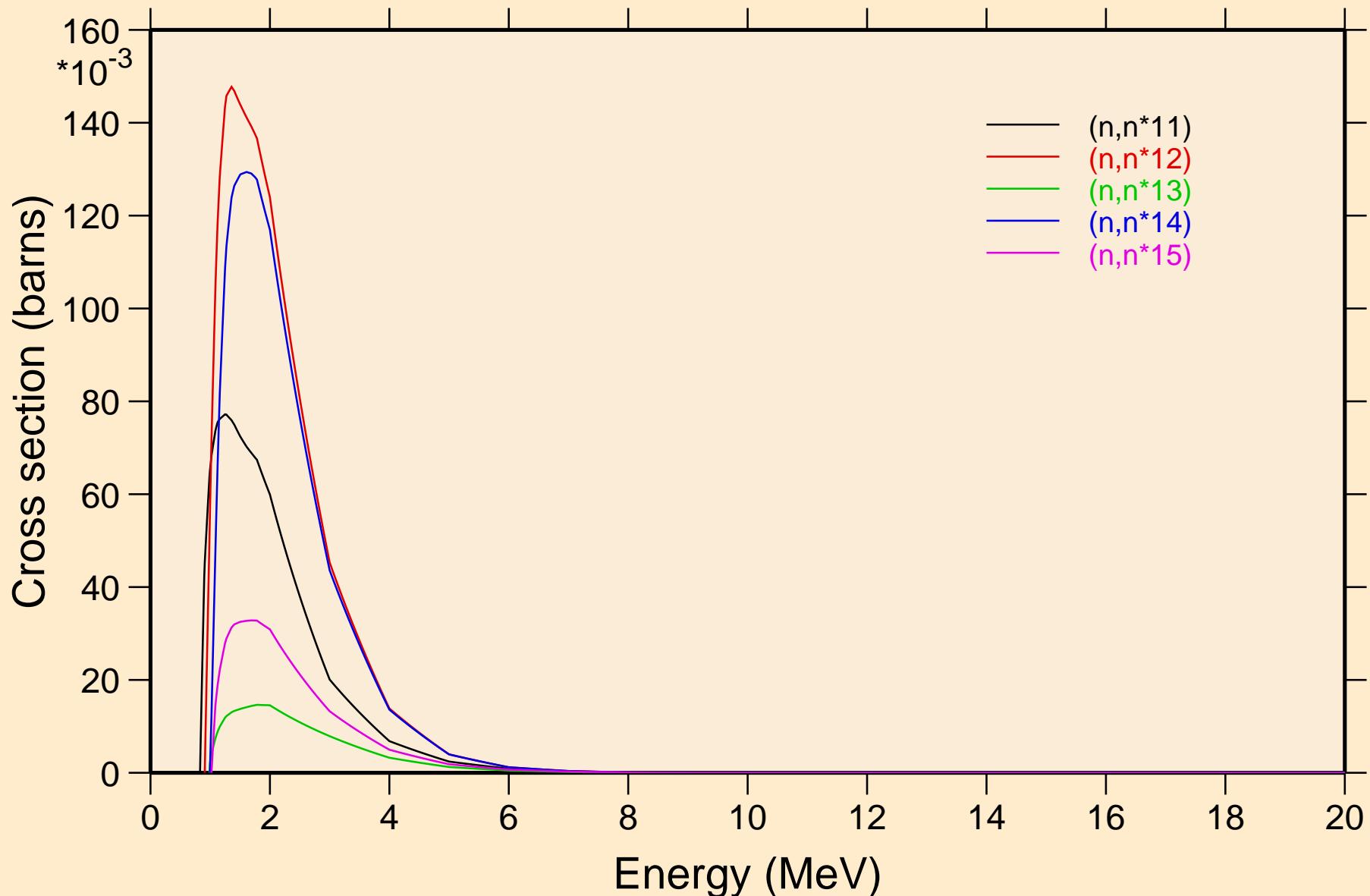


# ENDF/B-VII SE-79

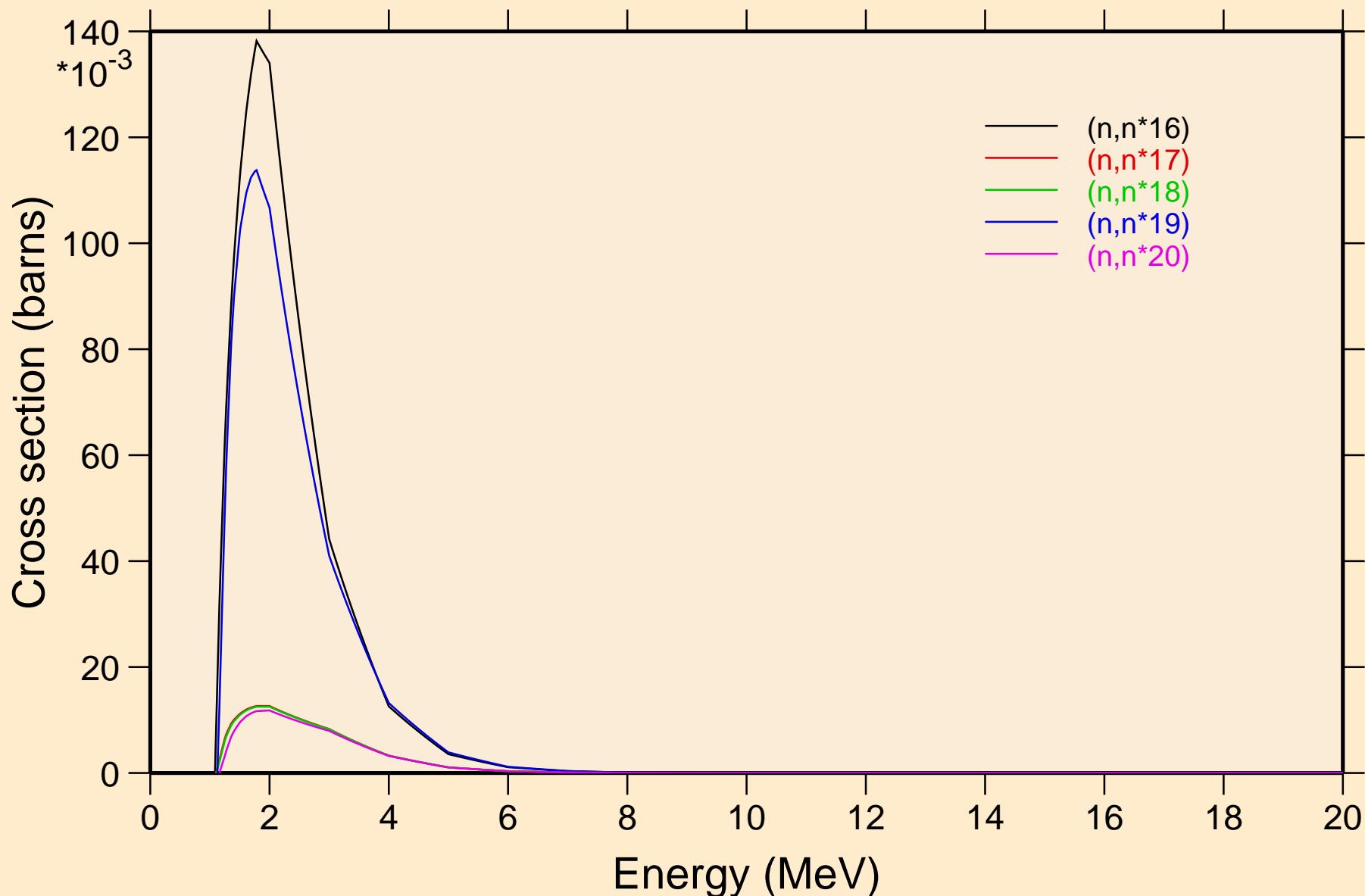
## Inelastic levels



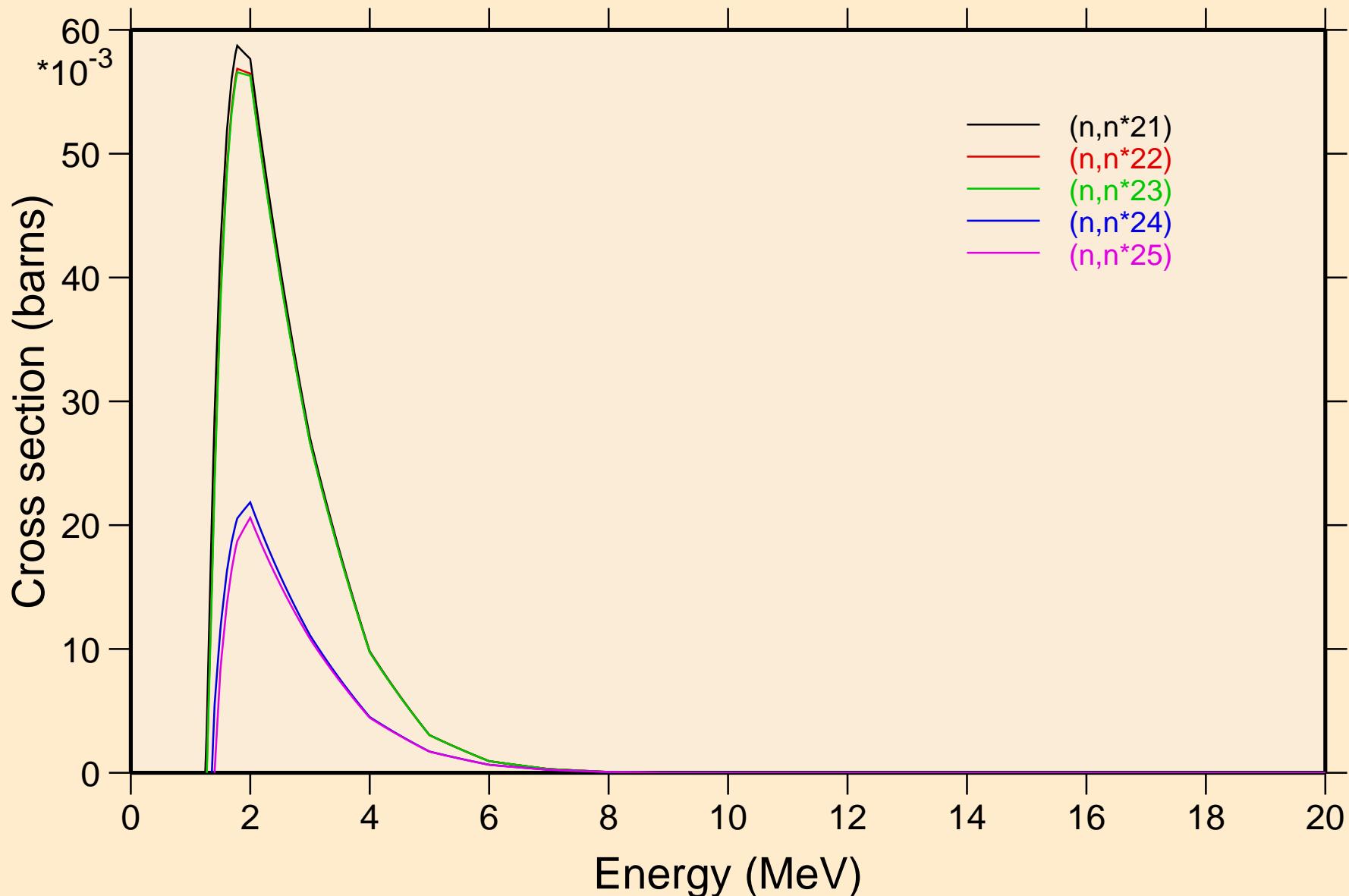
ENDF/B-VII SE-79  
Inelastic levels



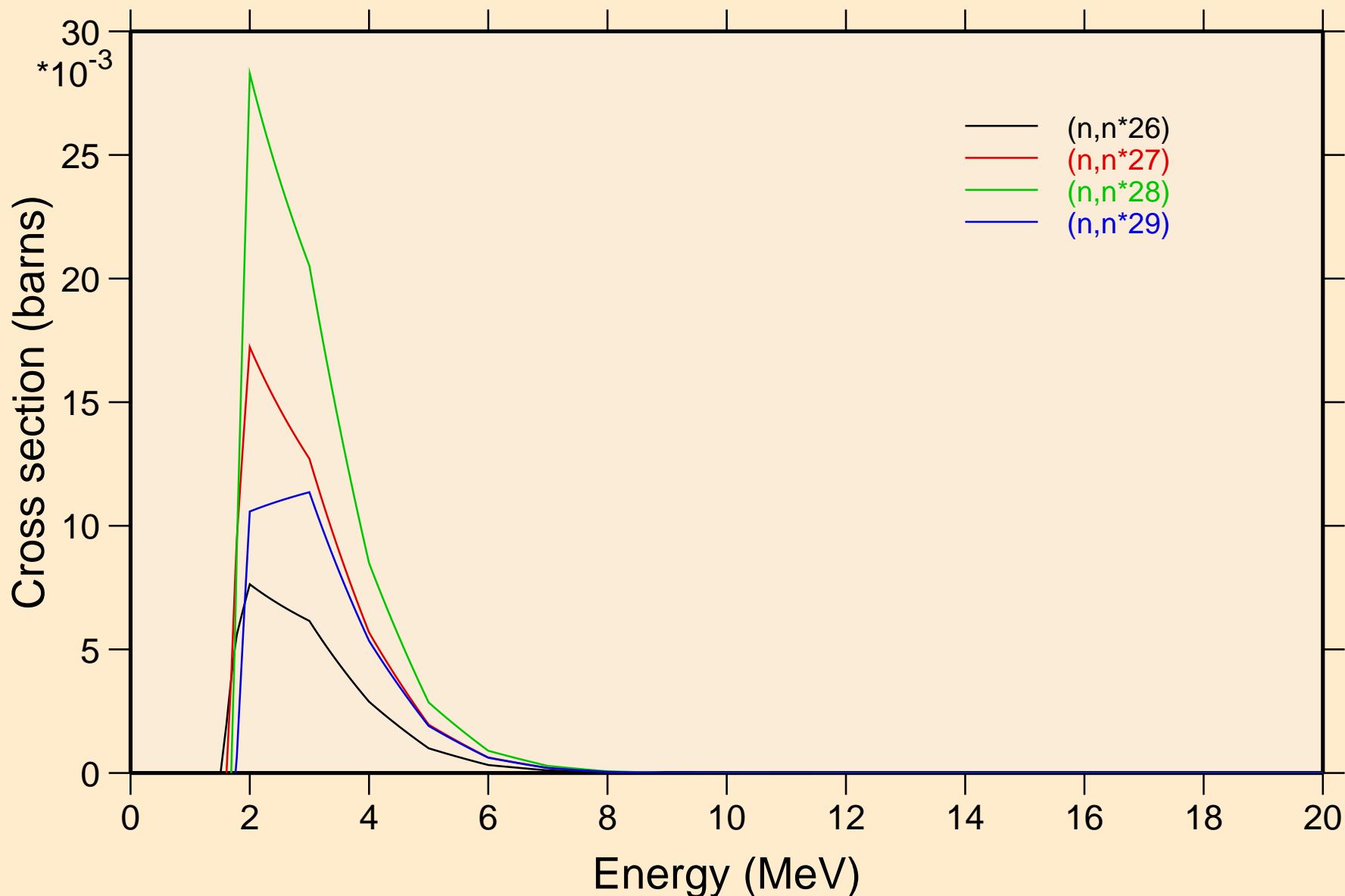
ENDF/B-VII SE-79  
Inelastic levels



ENDF/B-VII SE-79  
Inelastic levels

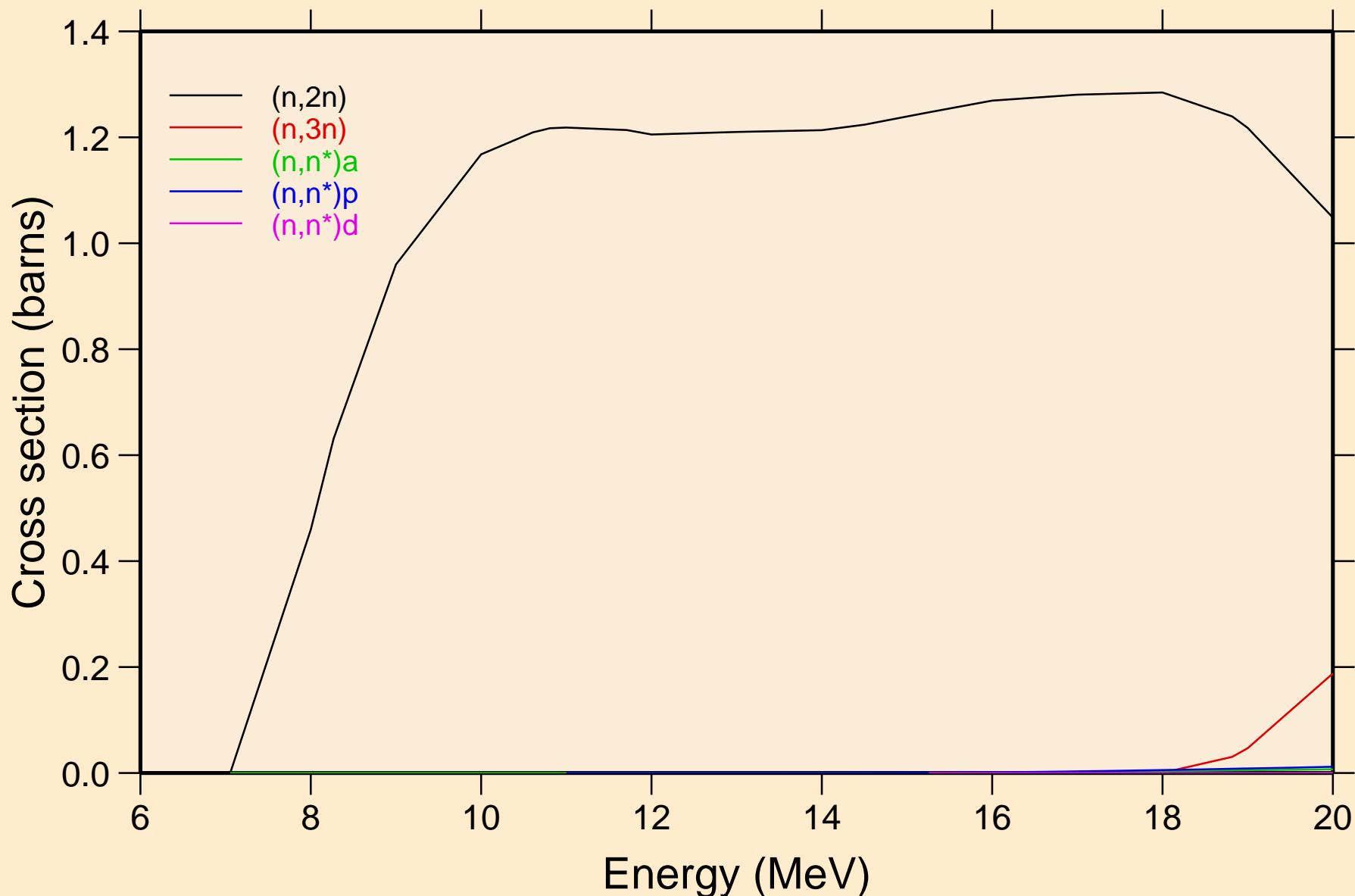


ENDF/B-VII SE-79  
Inelastic levels



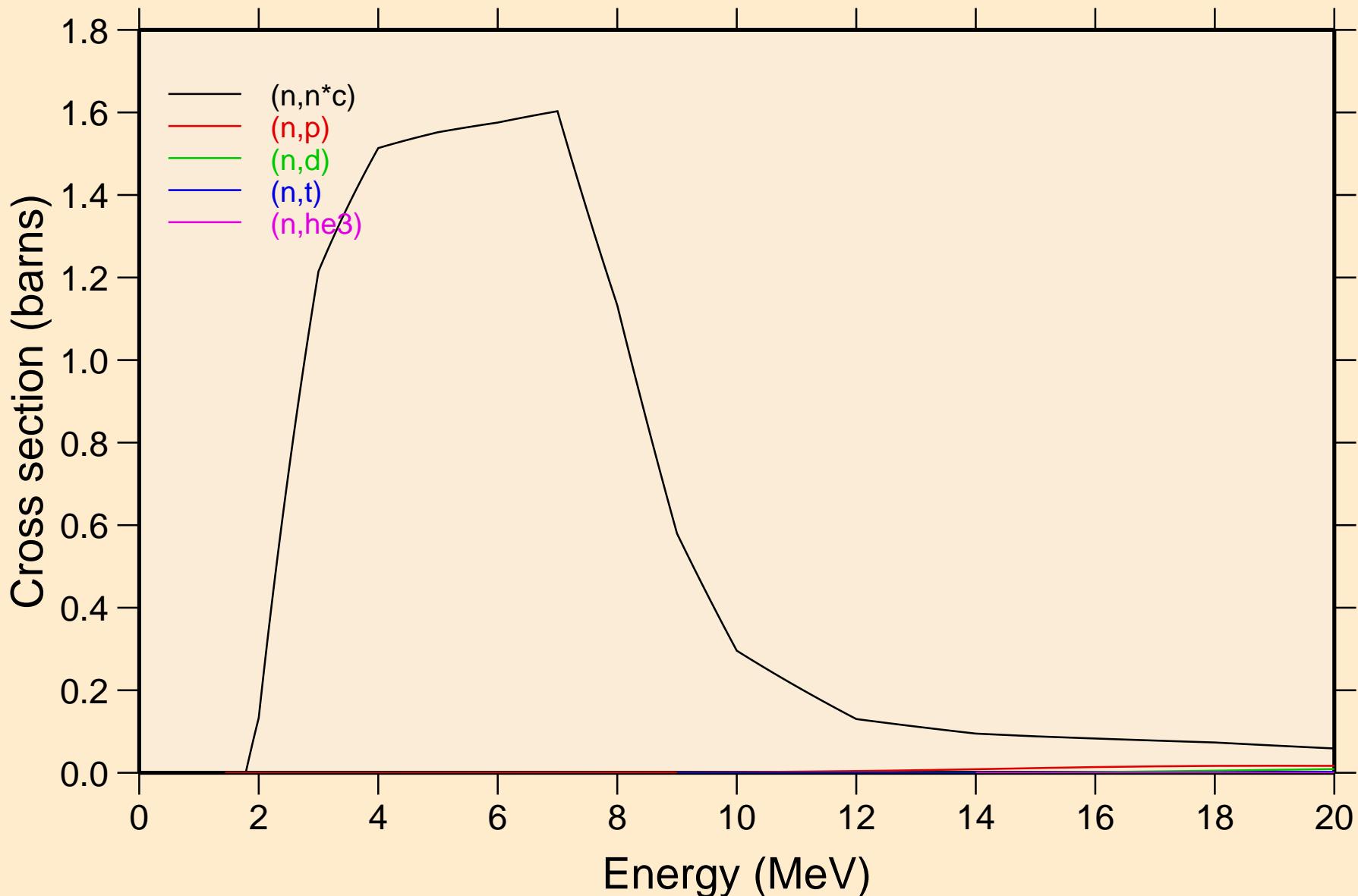
# ENDF/B-VII SE-79

## Threshold reactions

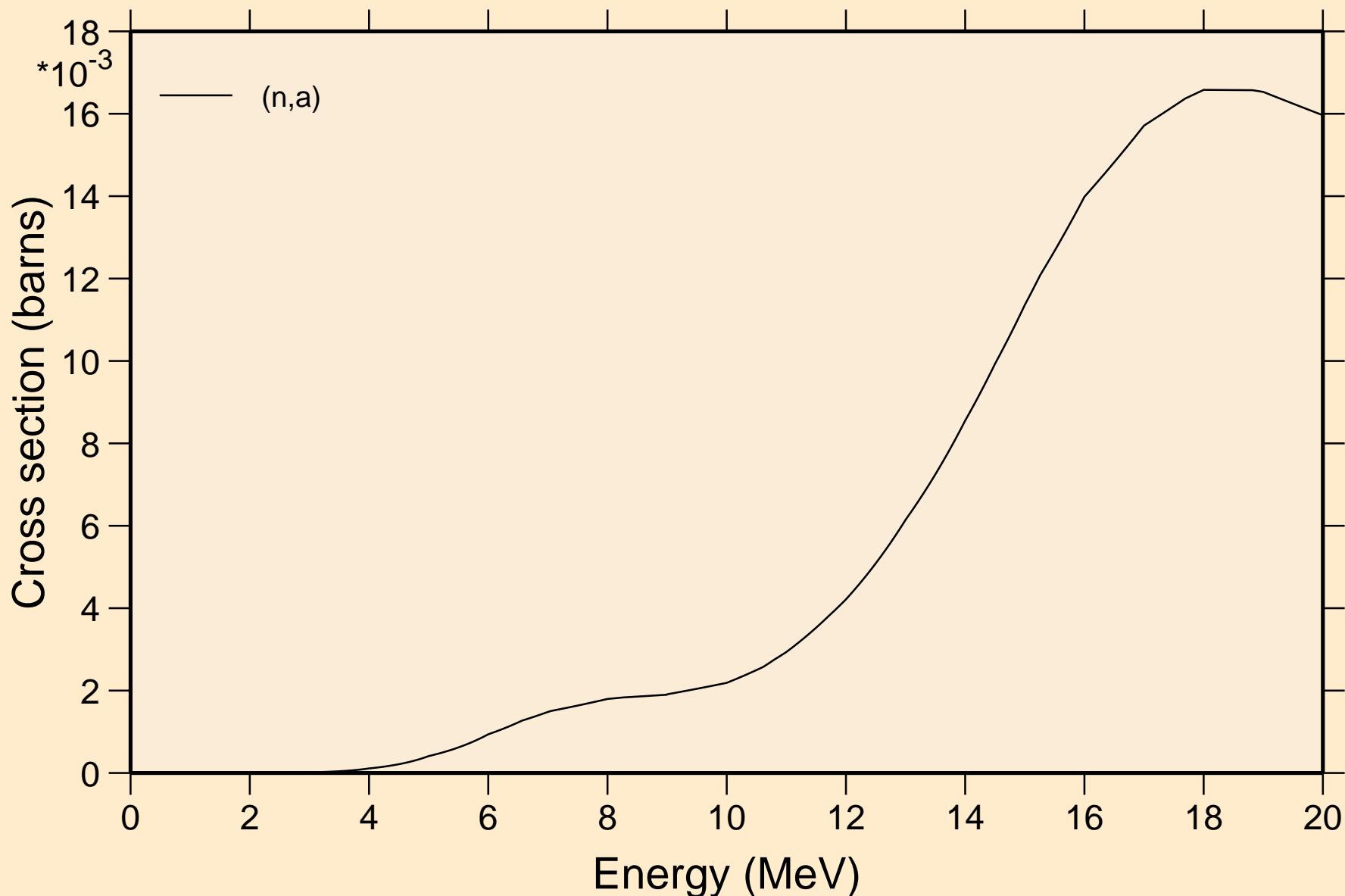


# ENDF/B-VII SE-79

## Threshold reactions

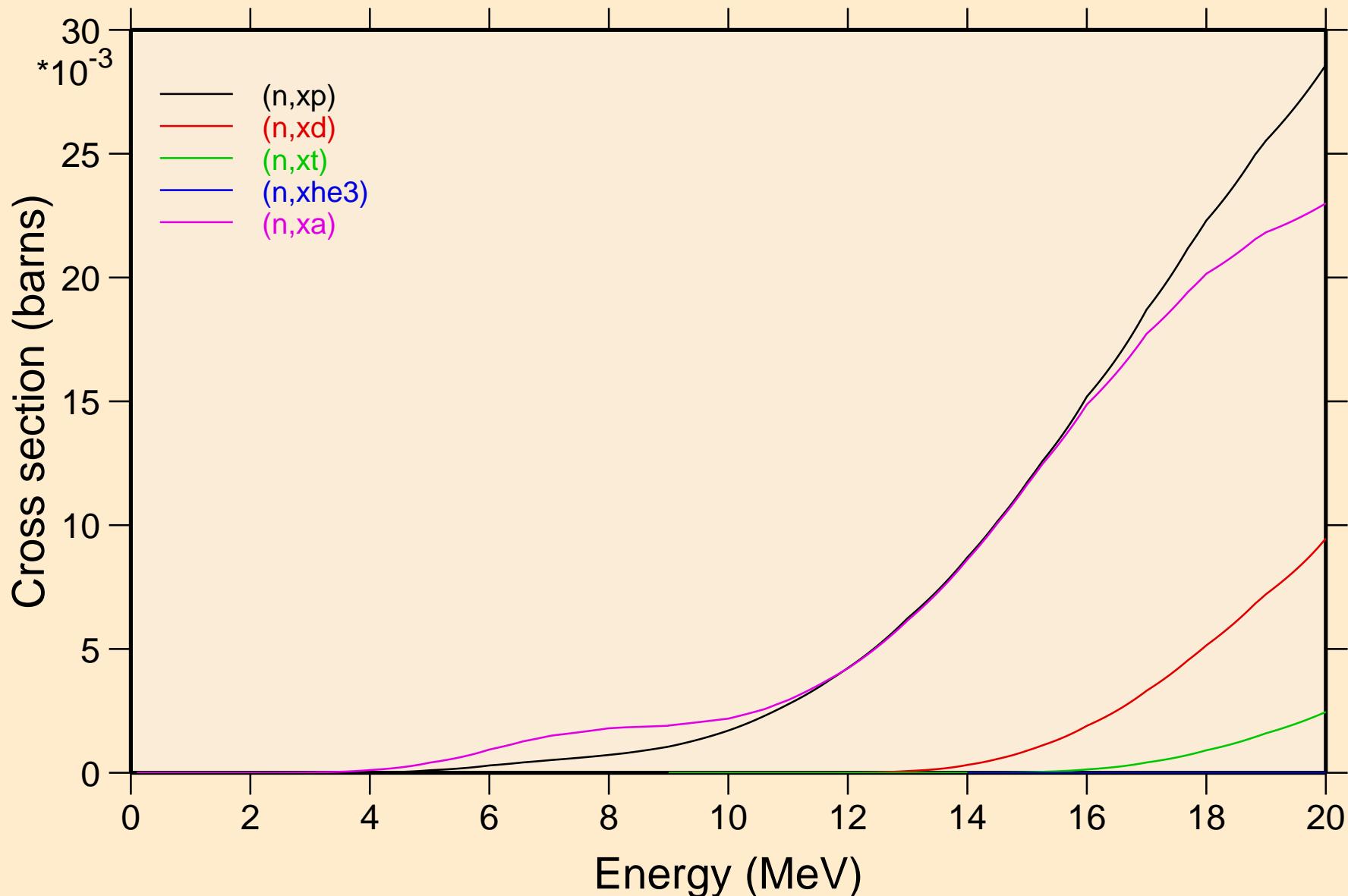


ENDF/B-VII SE-79  
Threshold reactions



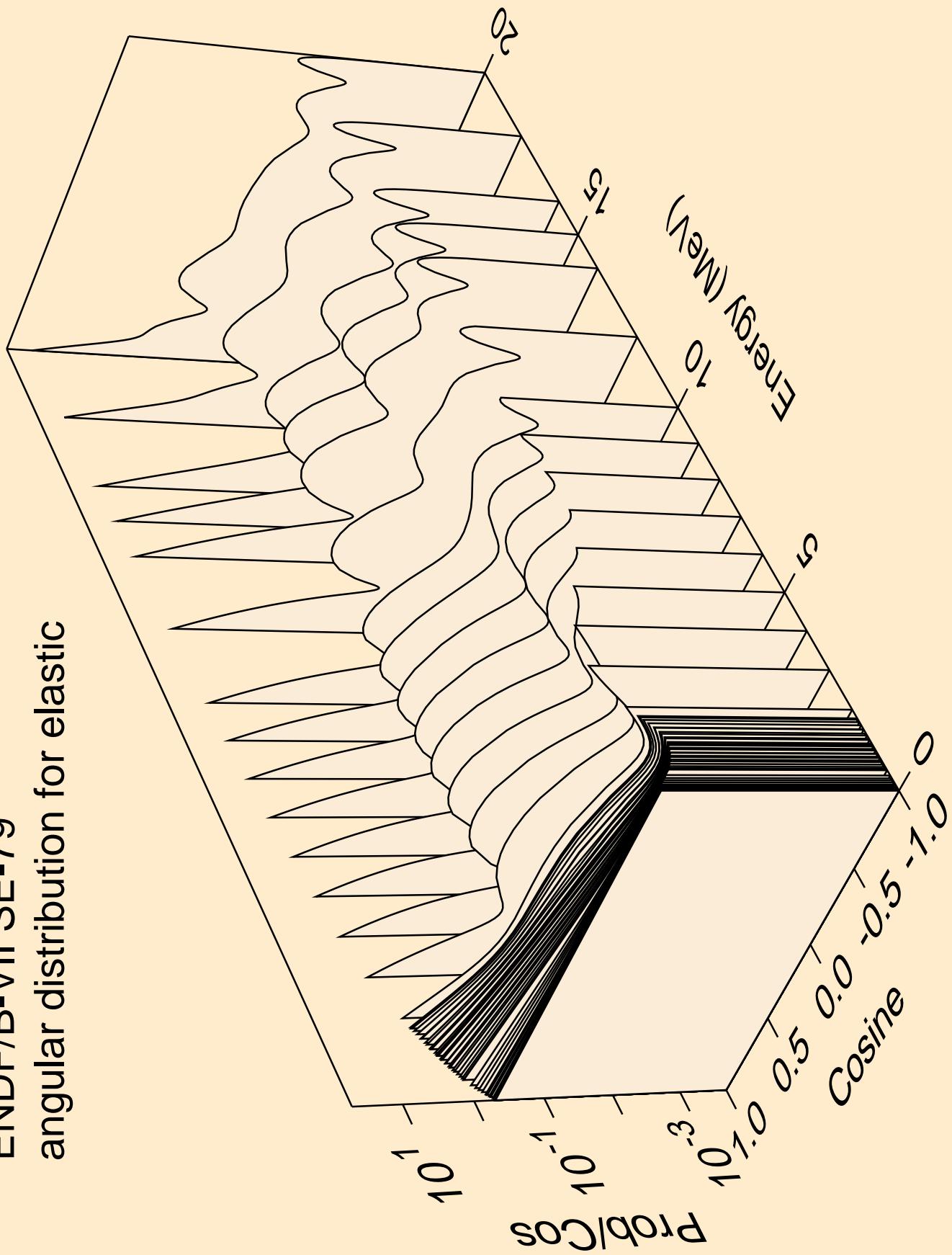
# ENDF/B-VII SE-79

## Threshold reactions



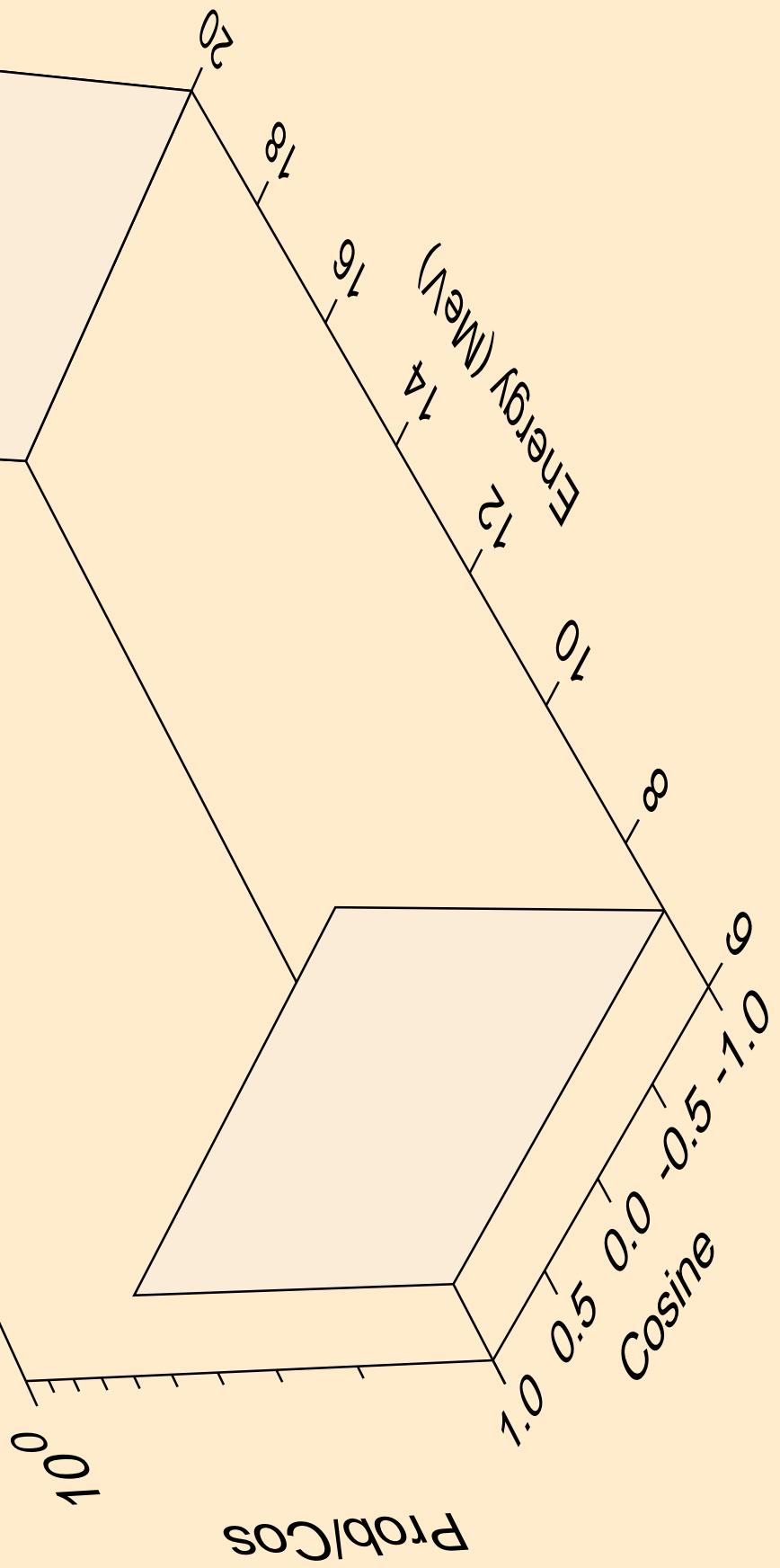
ENDF/B-VII SE-79

angular distribution for elastic



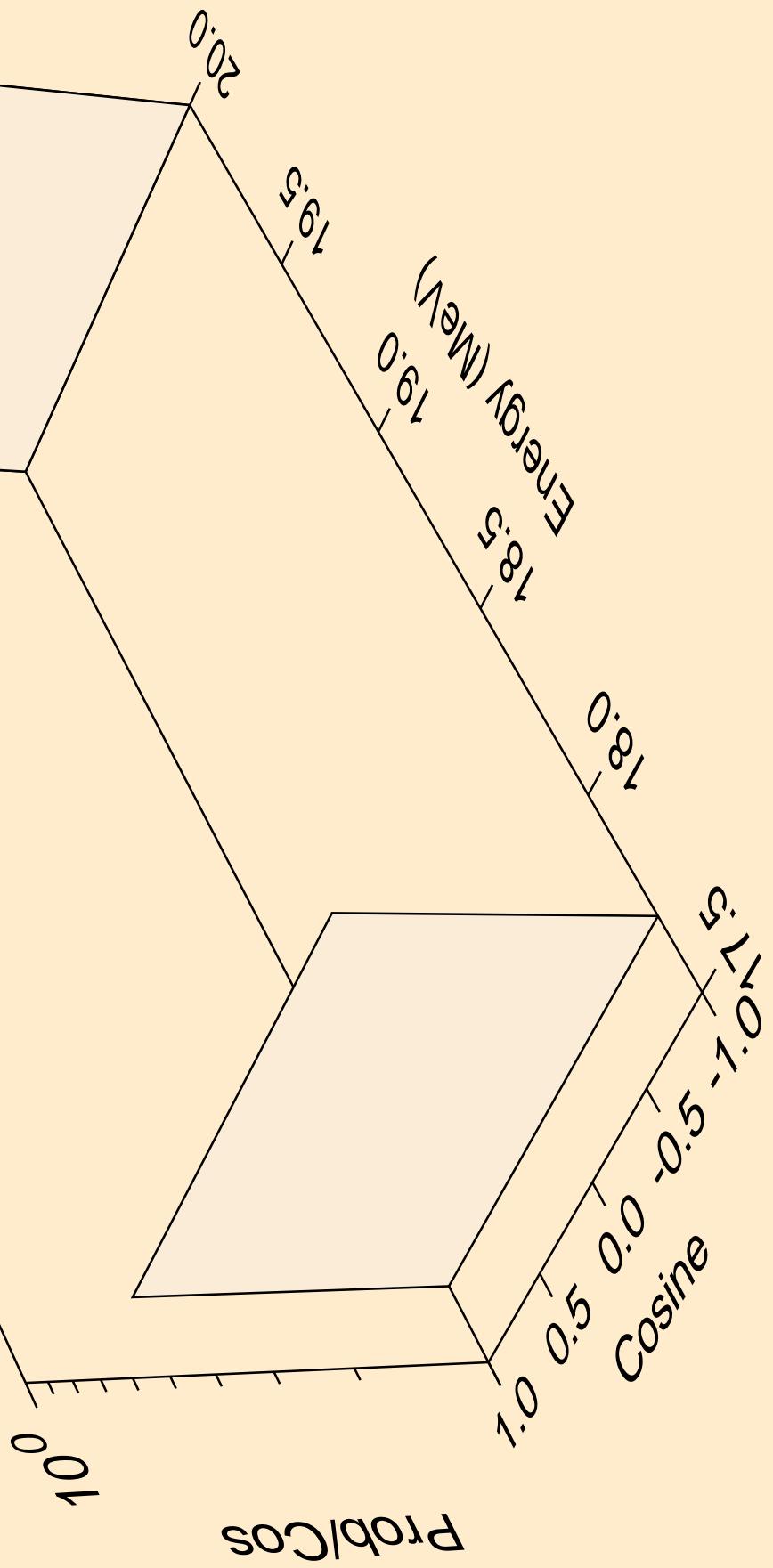
ENDF/B-VII SE-79

angular distribution for (n,2n)



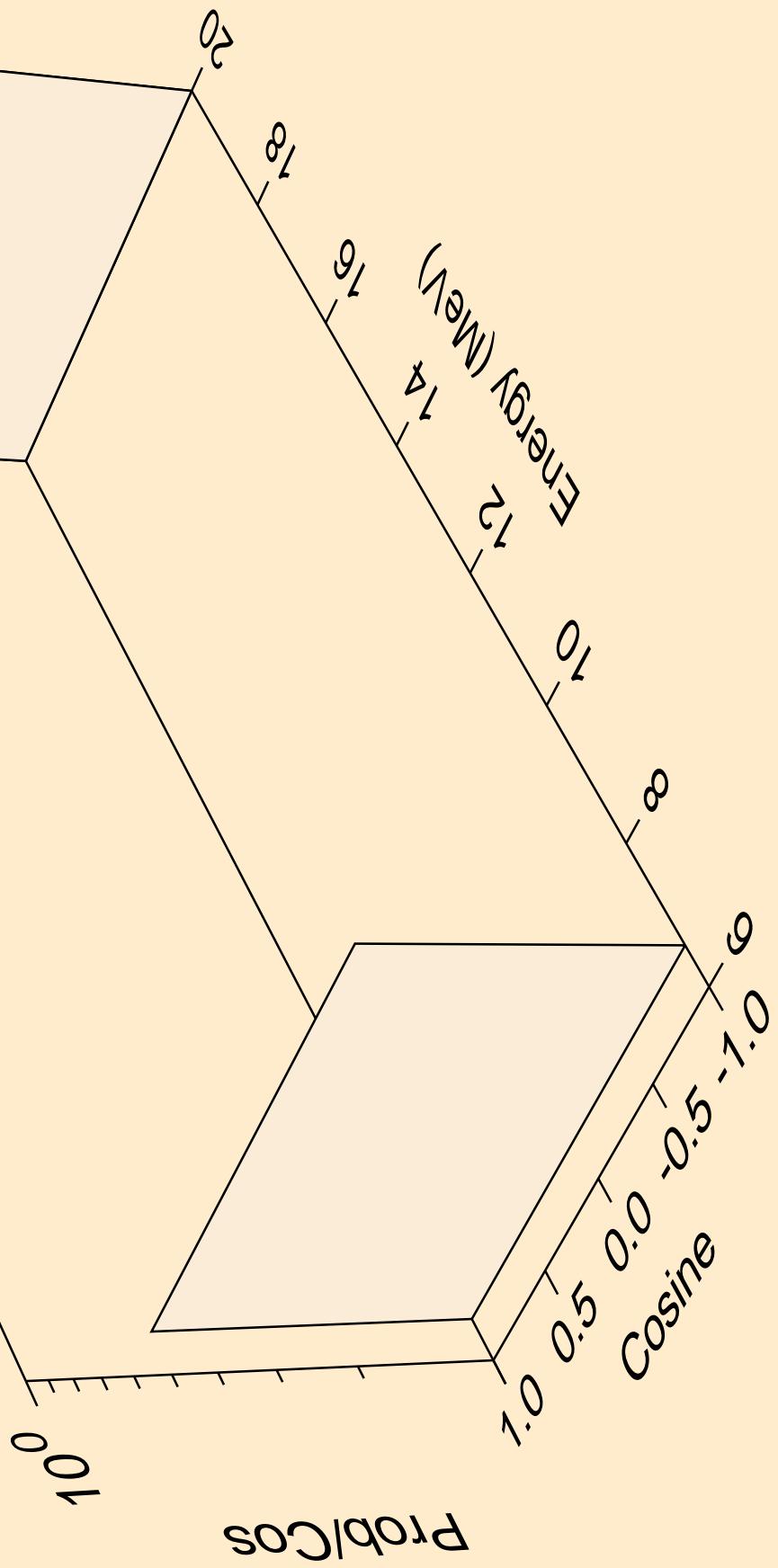
ENDF/B-VII SE-79

angular distribution for (n,3n)



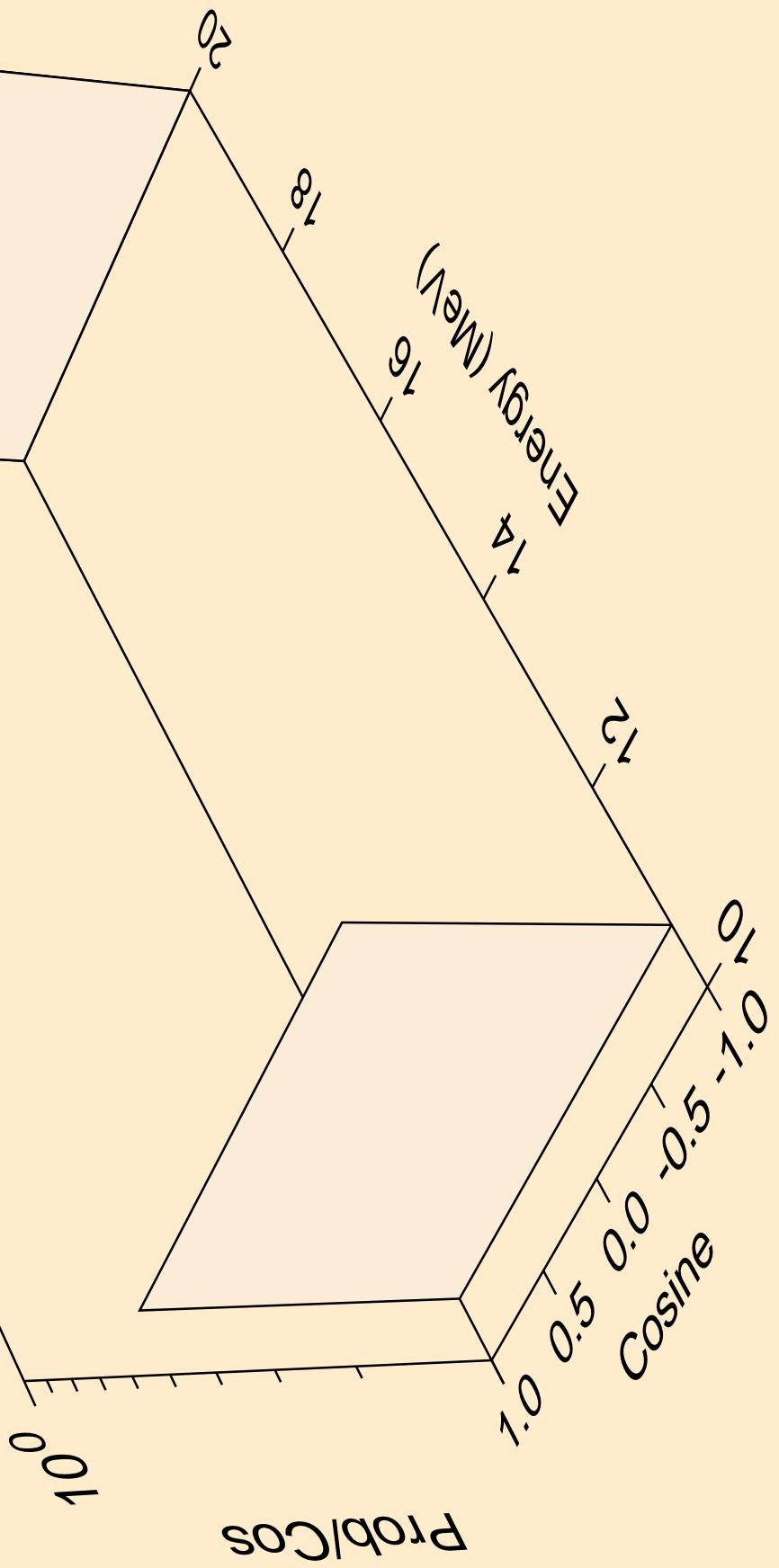
ENDF/B-VII SE-79

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



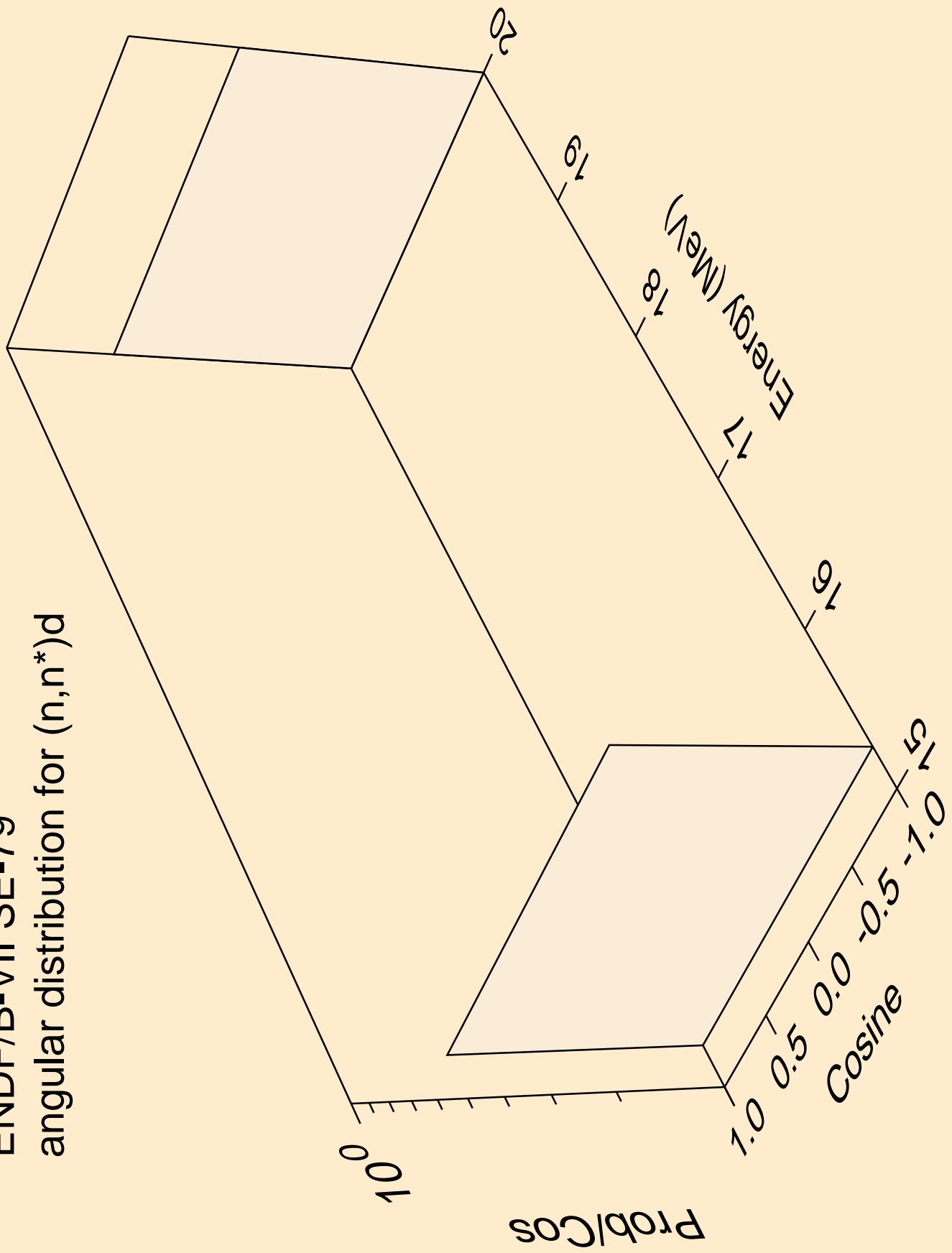
ENDF/B-VII SE-79

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



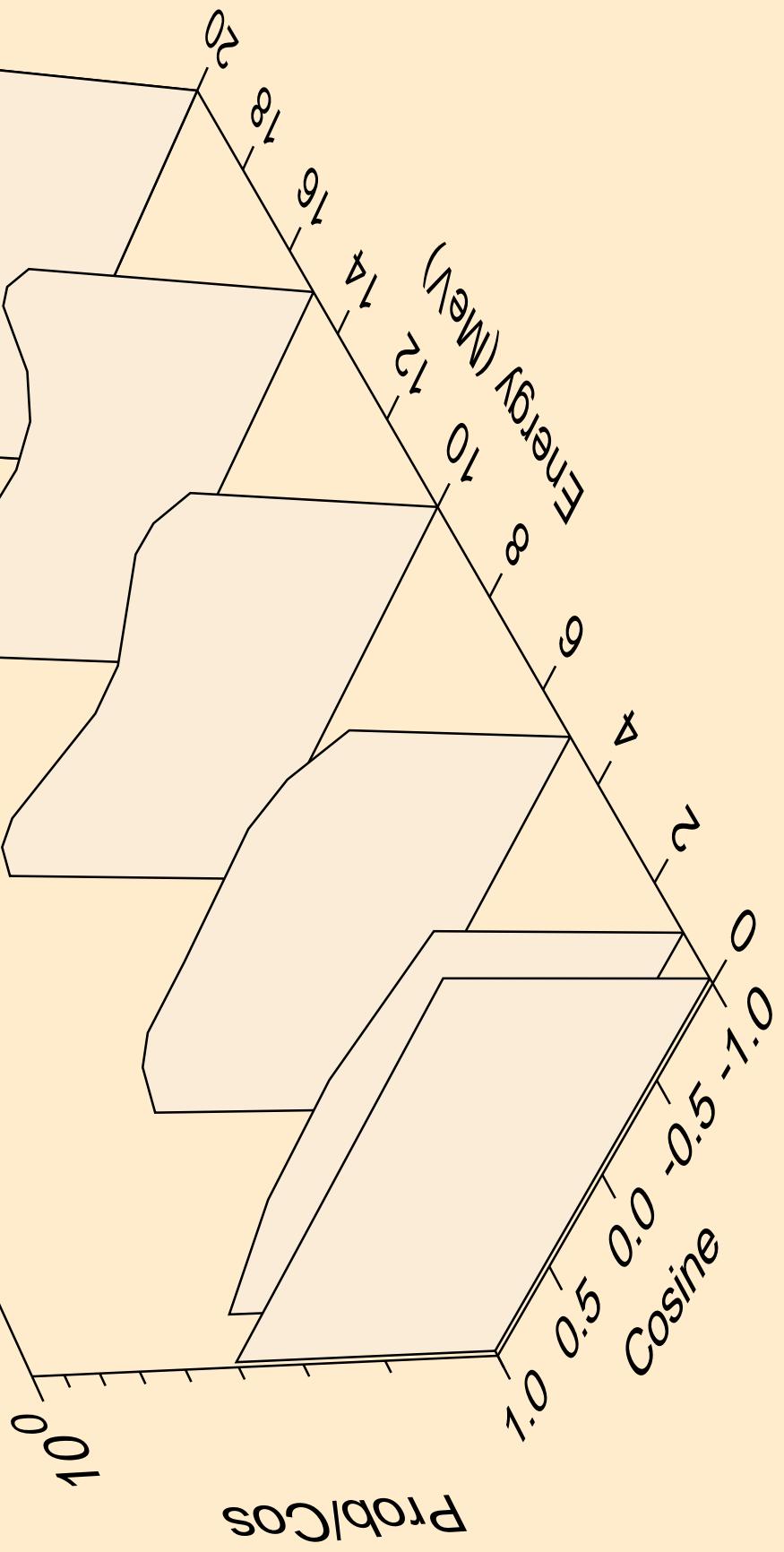
ENDF/B-VII SE-79

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



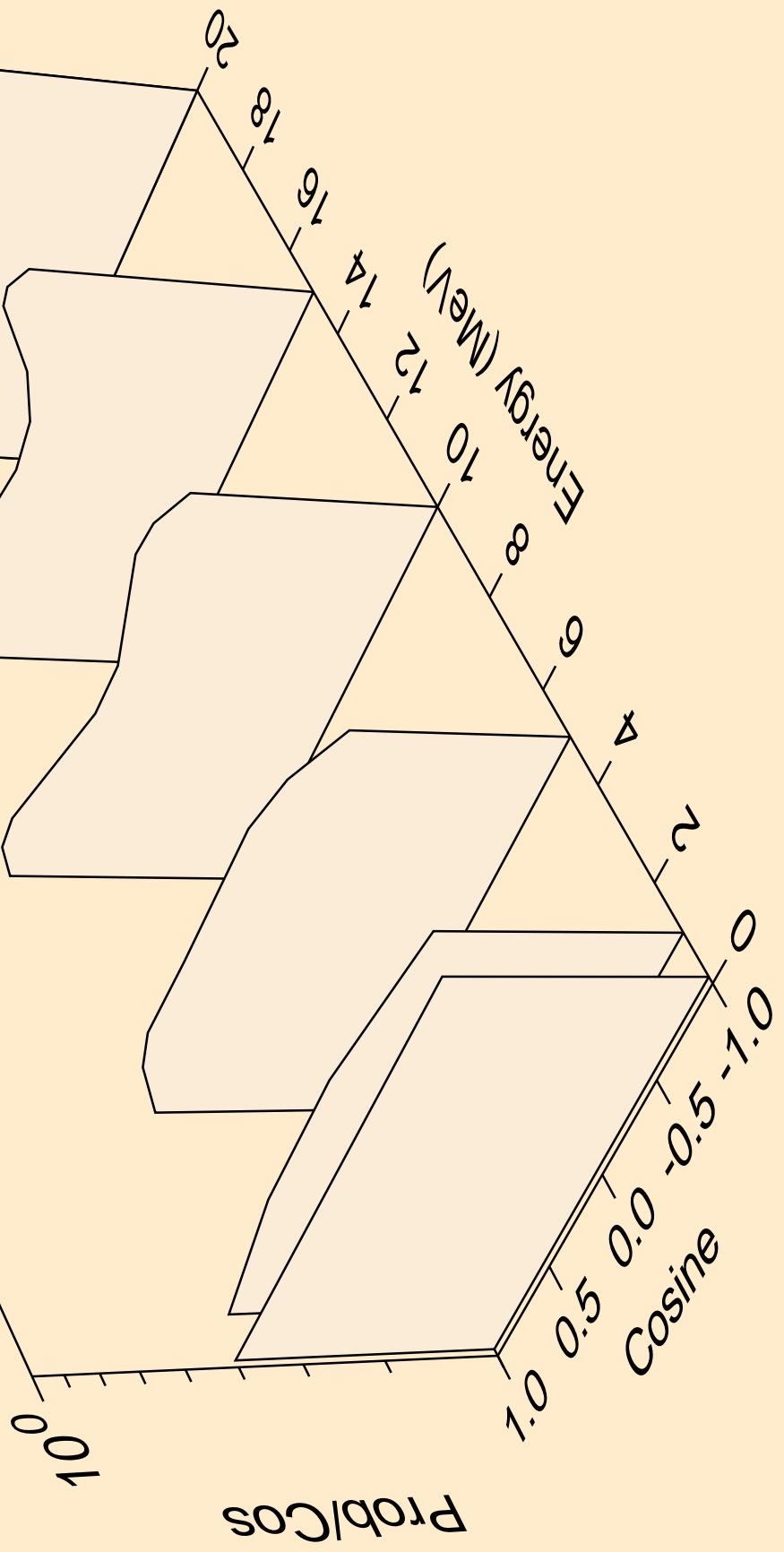
ENDF/B-VII SE-79

angular distribution for (n,n\*1)



ENDF/B-VII SE-79

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



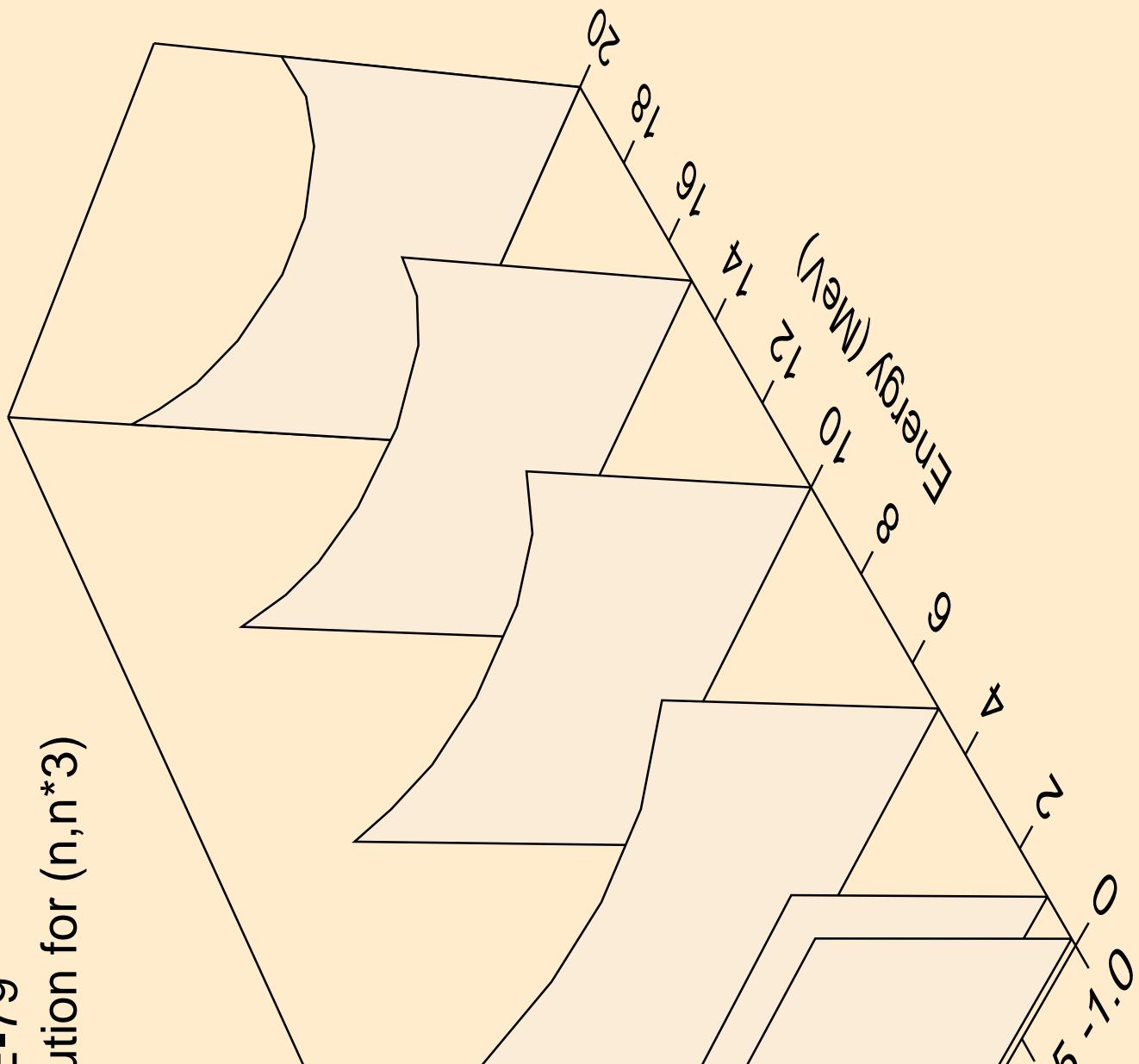
ENDF/B-VII SE-79

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

$10^0$

Prob/Cos

1.0 0.5 0.0 -0.5 -1.0  
Cosine



ENDF/B-VII SE-79

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

$10^0$

Prob/Cos

1.0 0.5 0.0 -0.5 -1.0  
Cosine

Δ

σ

Energ (MeV)

20

18

16

14

12

10

8

6

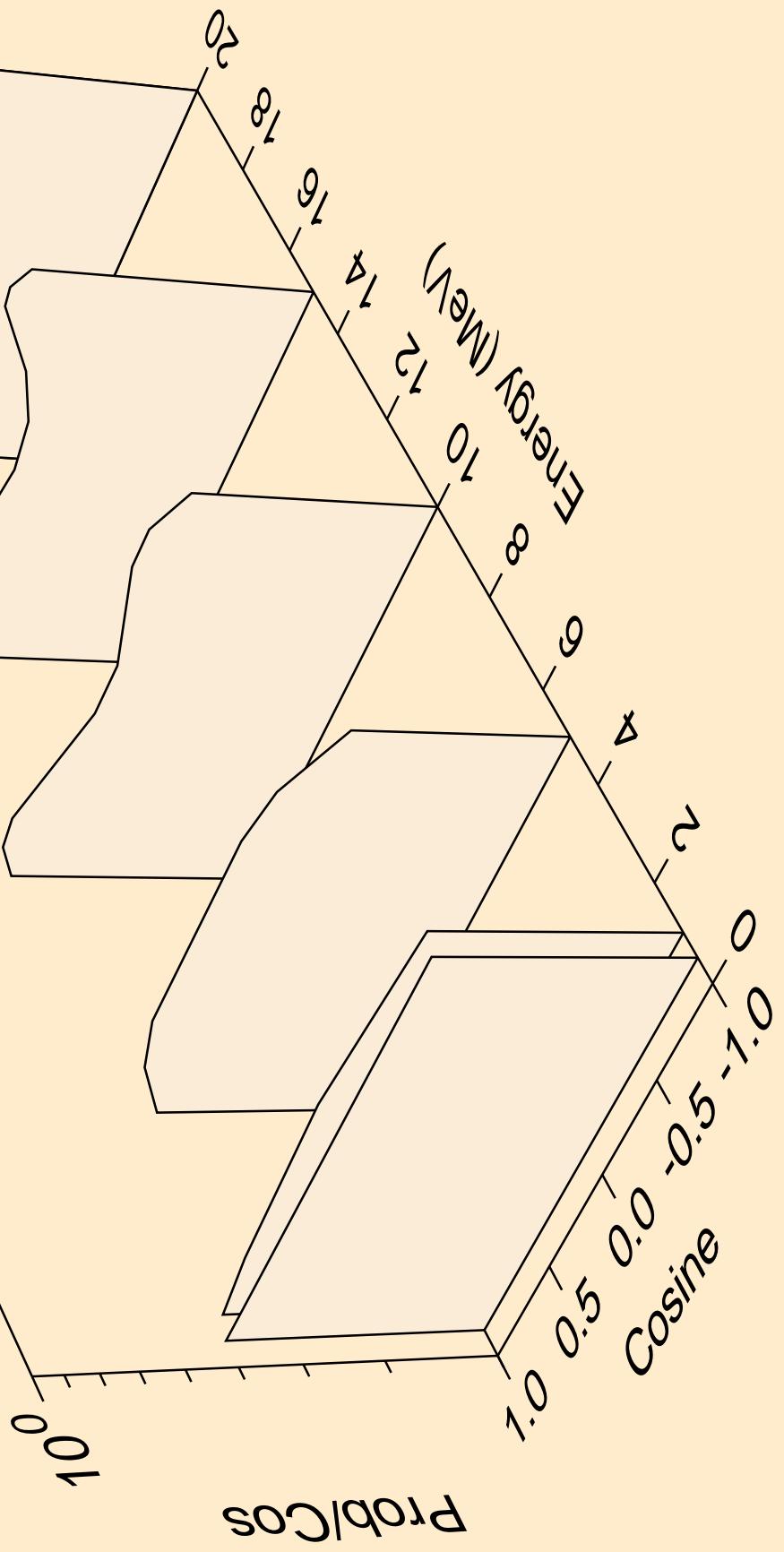
4

2

0

ENDF/B-VII SE-79

angular distribution for ( $n,n^*5$ )



ENDF/B-VII SE-79

angular distribution for (n,n\*6)

$10^0$

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 SE-79

angular distribution for (n,n\*7)

$10^0$

Prob/Cos

1.0 0.5 0.0 -0.5 -1.0  
Cosine

Δ

φ

Energy (MeV)

20

18

16

14

12

10

8

6

4

2

0

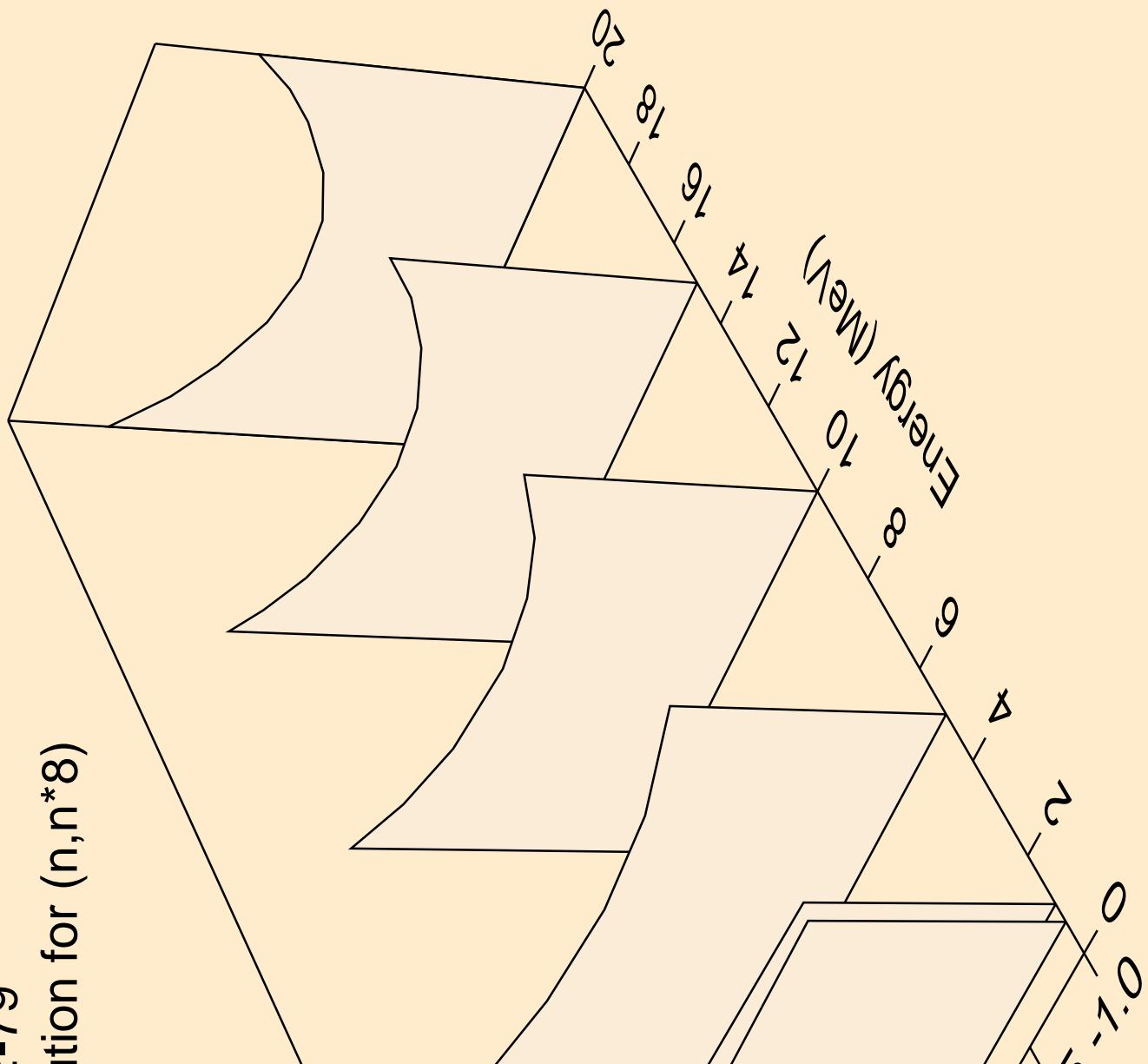
ENDF/B-VII SE-79

angular distribution for (n,n\*8)

$10^0$

Prob/Cos

1.0 0.5 0.0 -0.5 -1.0  
Cosine



ENDF/B-VII SE-79

angular distribution for (n,n\*9)

$10^0$

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 SE-79

angular distribution for  $(n,n^*10)$

$10^0$

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 SE-79

angular distribution for (n,n\*11)

$10^0$

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 SE-79

angular distribution for (n,n\*12)

$10^0$

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

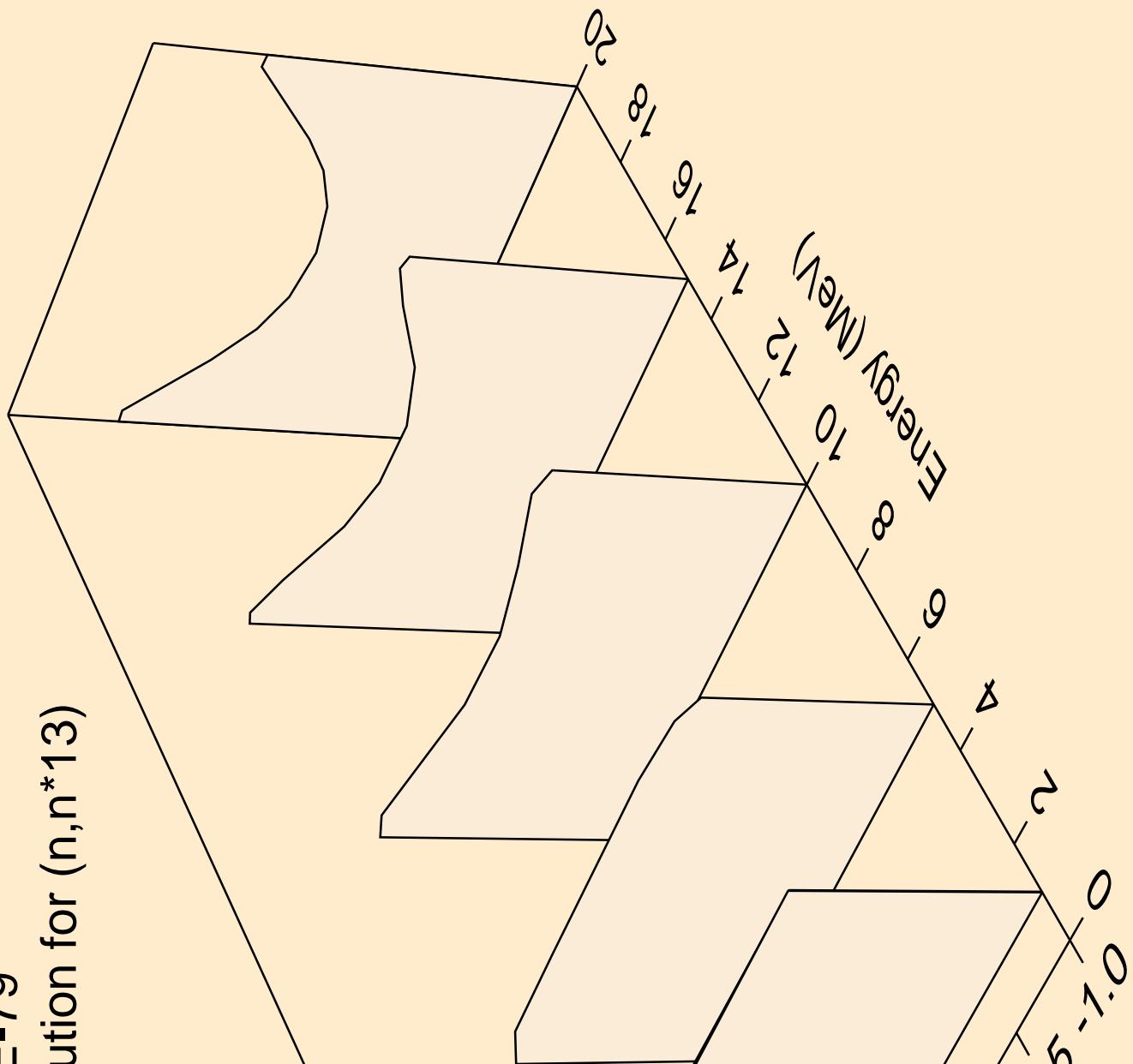
ENDF/B-VII SE-79

angular distribution for (n,n\*13)

$10^0$

Prob/Cos

1.0 0.5 0.0 -0.5 -1.0  
Cosine



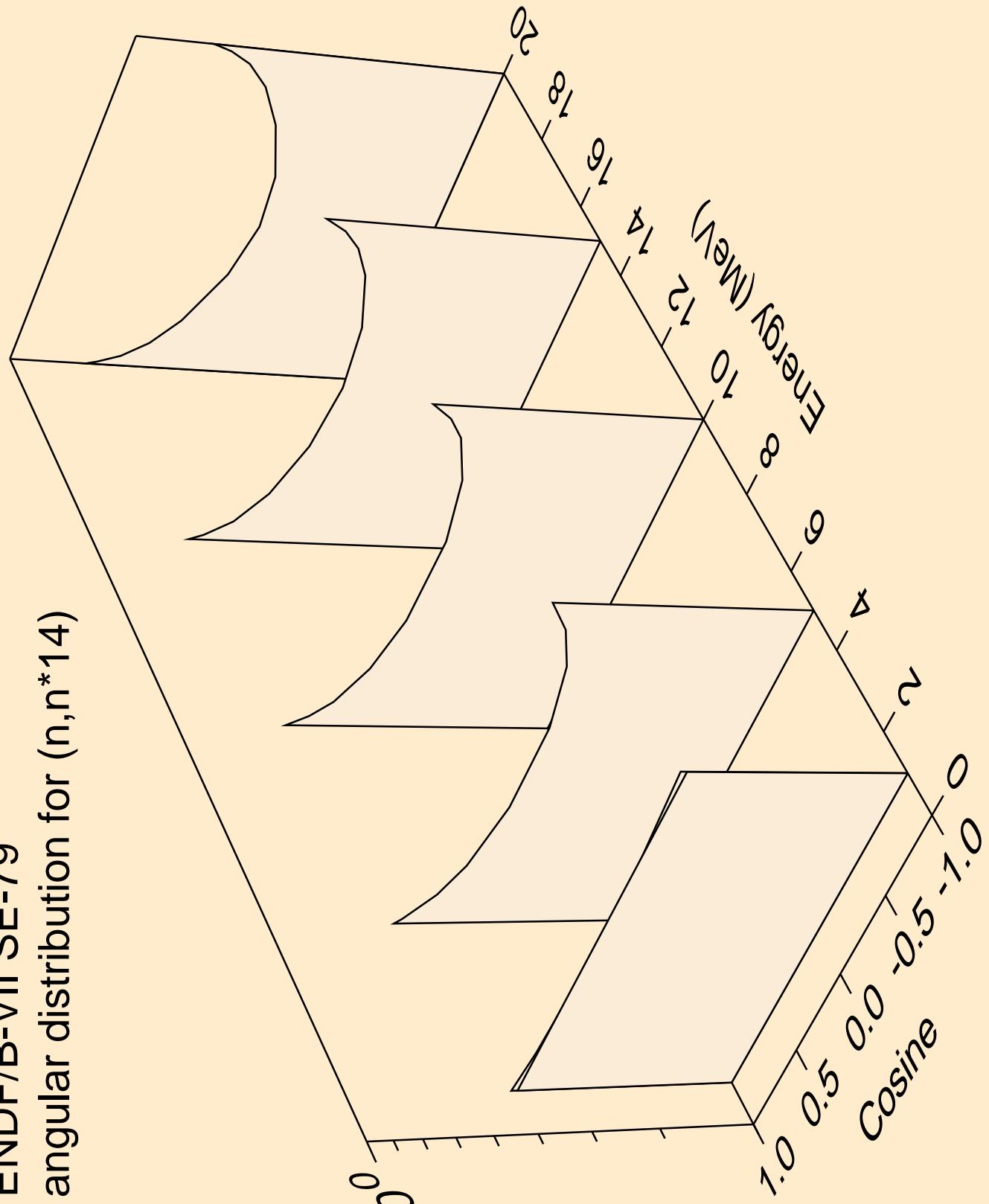
ENDF/B-VII SE-79

angular distribution for (n,n\*14)

$10^0$

Prob/Cos

1.0 0.5 0.0 -0.5 -1.0  
Cosine



ENDF/B-VII SE-79

angular distribution for  $(n,n^*15)$

$10^0$

Prob/Cos

1.0 0.5 0.0 -0.5 -1.0  
Cosine

$\Delta$

$\phi$

$\theta$

Energ $\gamma$  (MeV)

$\omega$

$18^\circ$   
 $16^\circ$   
 $14^\circ$

$12^\circ$

$10^\circ$

$8^\circ$

$6^\circ$

$4^\circ$

$2^\circ$

$0^\circ$

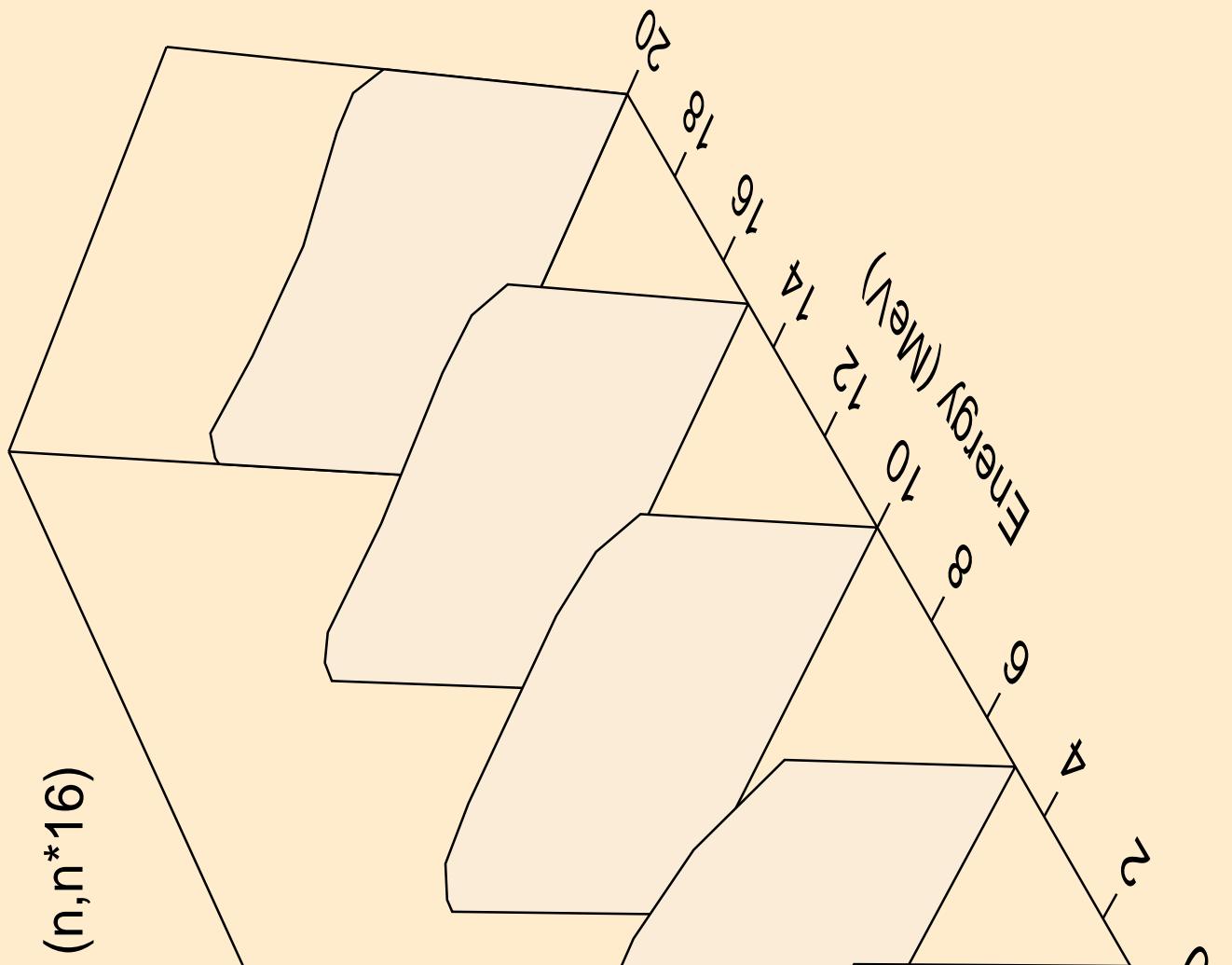
ENDF/B-VII SE-79

angular distribution for (n,n\*16)

$10^0$

Prob/Cos

1.0 0.5 0.0 -0.5 -1.0  
Cosine



ENDF/B-VII SE-79

angular distribution for (n,n\*17)

$10^0$

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 SE-79

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

$10^0$

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

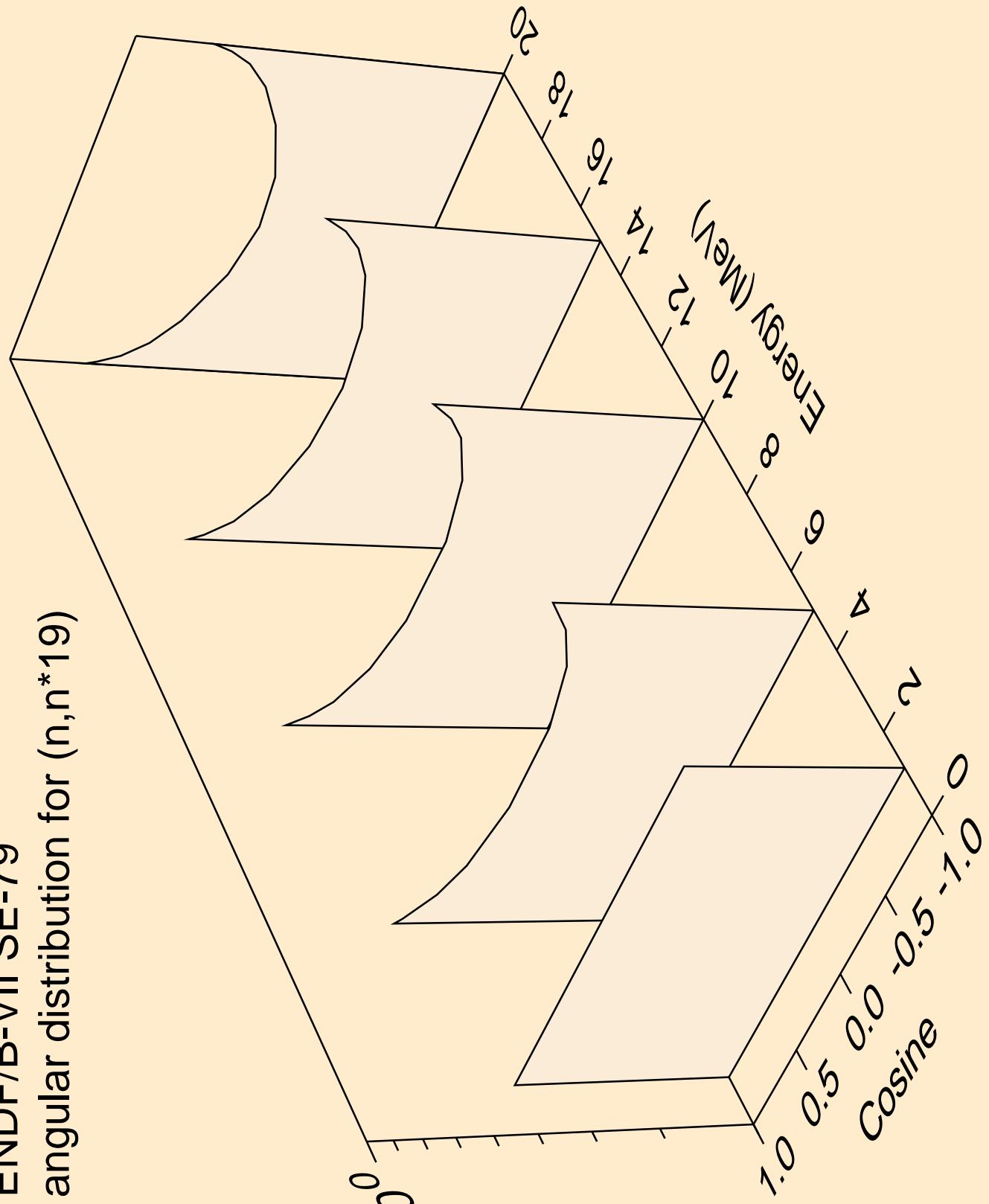
ENDF/B-VII SE-79

angular distribution for (n,n\*19)

$10^0$

Prob/Cos

1.0 0.5 0.0 -0.5 -1.0  
Cosine



ENDF/B-VII SE-79

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  
8  
Energy (MeV)

6  
4  
2

0

-2

-4

ENDF/B-VII SE-79

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

$10^0$

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 SE-79

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

$10^0$

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 SE-79

angular distribution for ( $n,n^*23$ )

$10^0$

Prob/Cos

1.0 0.5 0.0 -0.5 -1.0  
Cosine

20  
18  
16  
14  
12  
10  
8  
6  
4  
2  
0  
Energy (MeV)

20  
18  
16  
14  
12  
10  
8  
6  
4  
2  
0  
Energy (MeV)

20  
18  
16  
14  
12  
10  
8  
6  
4  
2  
0  
Energy (MeV)

20  
18  
16  
14  
12  
10  
8  
6  
4  
2  
0  
Energy (MeV)

20  
18  
16  
14  
12  
10  
8  
6  
4  
2  
0  
Energy (MeV)

ENDF/B-VII SE-79

angular distribution for ( $n,n^*24$ )

$10^0$

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 SE-79

angular distribution for  $(n,n^*25)$

$10^0$

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 SE-79

angular distribution for ( $n,n^*26$ )

$10^0$

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

ENDF/B-VII SE-79

angular distribution for  $(n,n^*27)$

$10^0$

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

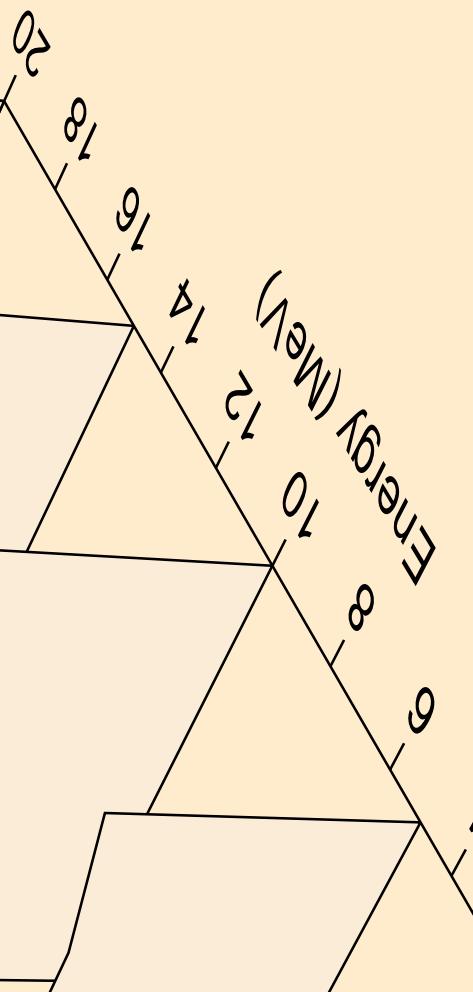
ENDF/B-VII SE-79

angular distribution for ( $n,n^*28$ )

$10^0$

Prob/Cos

1.0 0.5 0.0 -0.5 -1.0  
Cosine



ENDF/B-VII SE-79

angular distribution for  $(n,n^*29)$

$10^0$

Prob/Cos

1.0 0.5 0.0 -0.5 -1.0  
Cosine

20  
18  
16  
14  
12  
10  
8  
Energ (MeV)

6  
4  
2

0

20  
18  
16  
14  
12  
10  
8  
Energ (MeV)

6  
4  
2

0

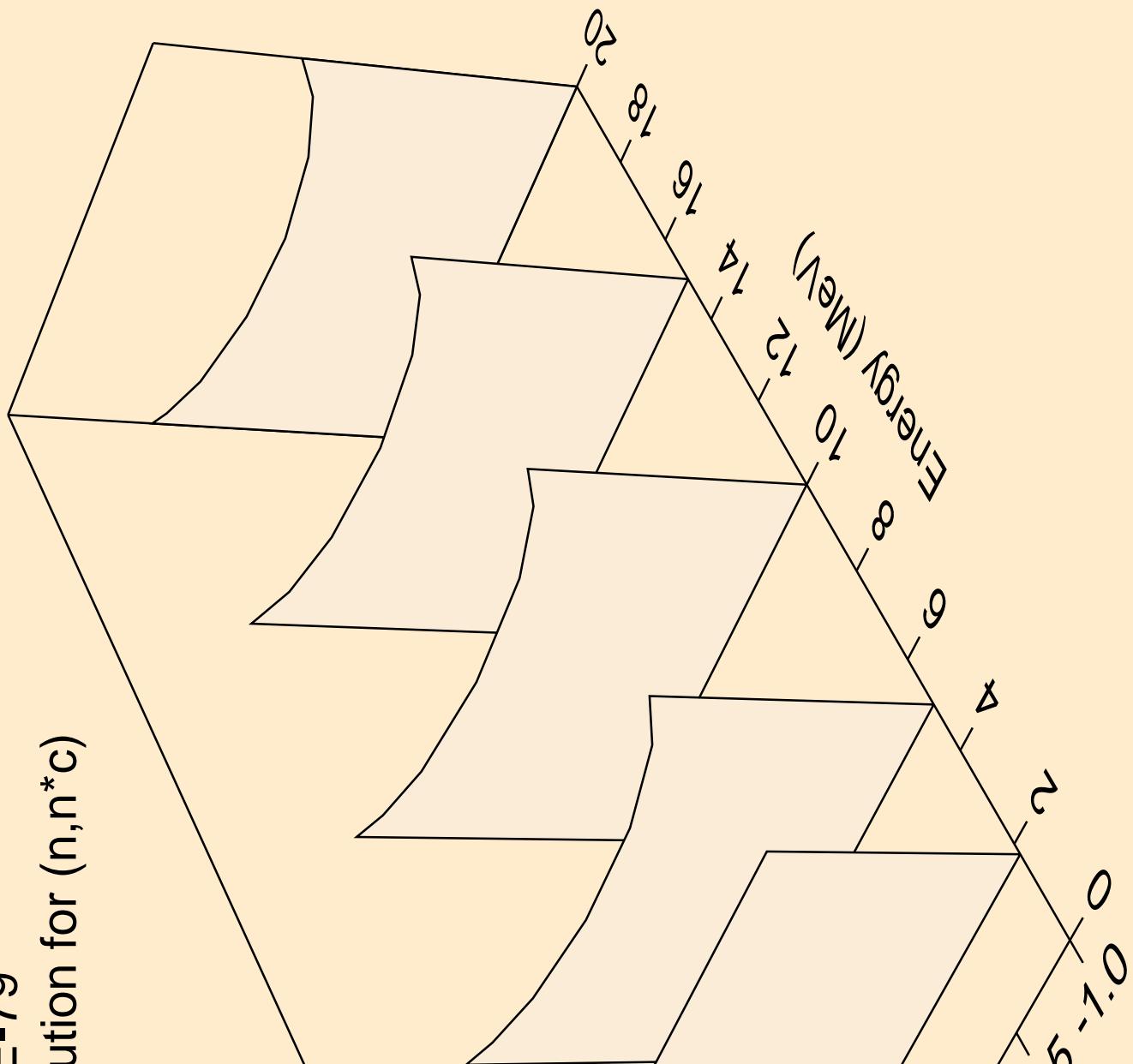
ENDF/B-VII SE-79

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

$10^0$

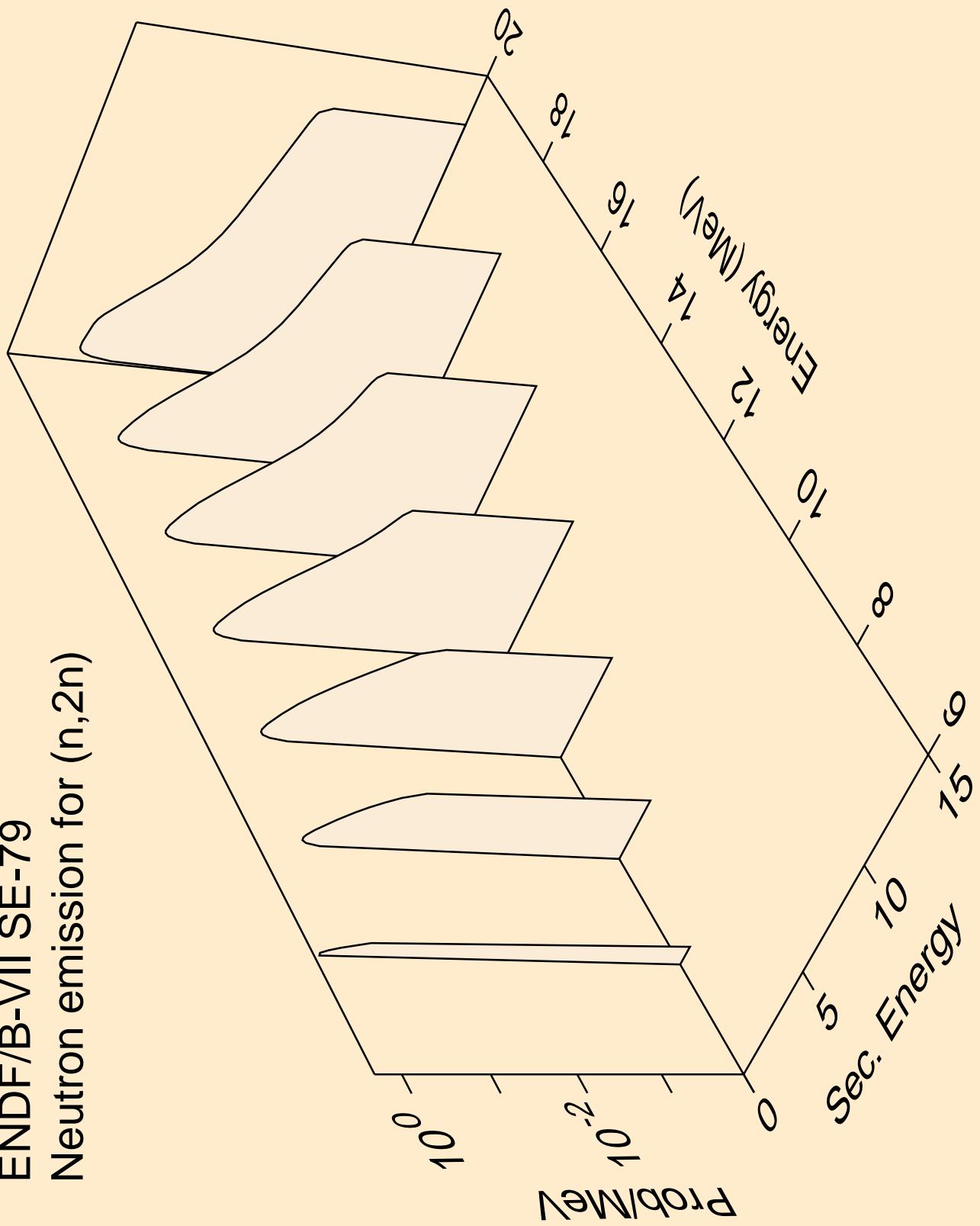
Prob/Cos

1.0 0.5 0.0 -0.5 -1.0  
Cosine



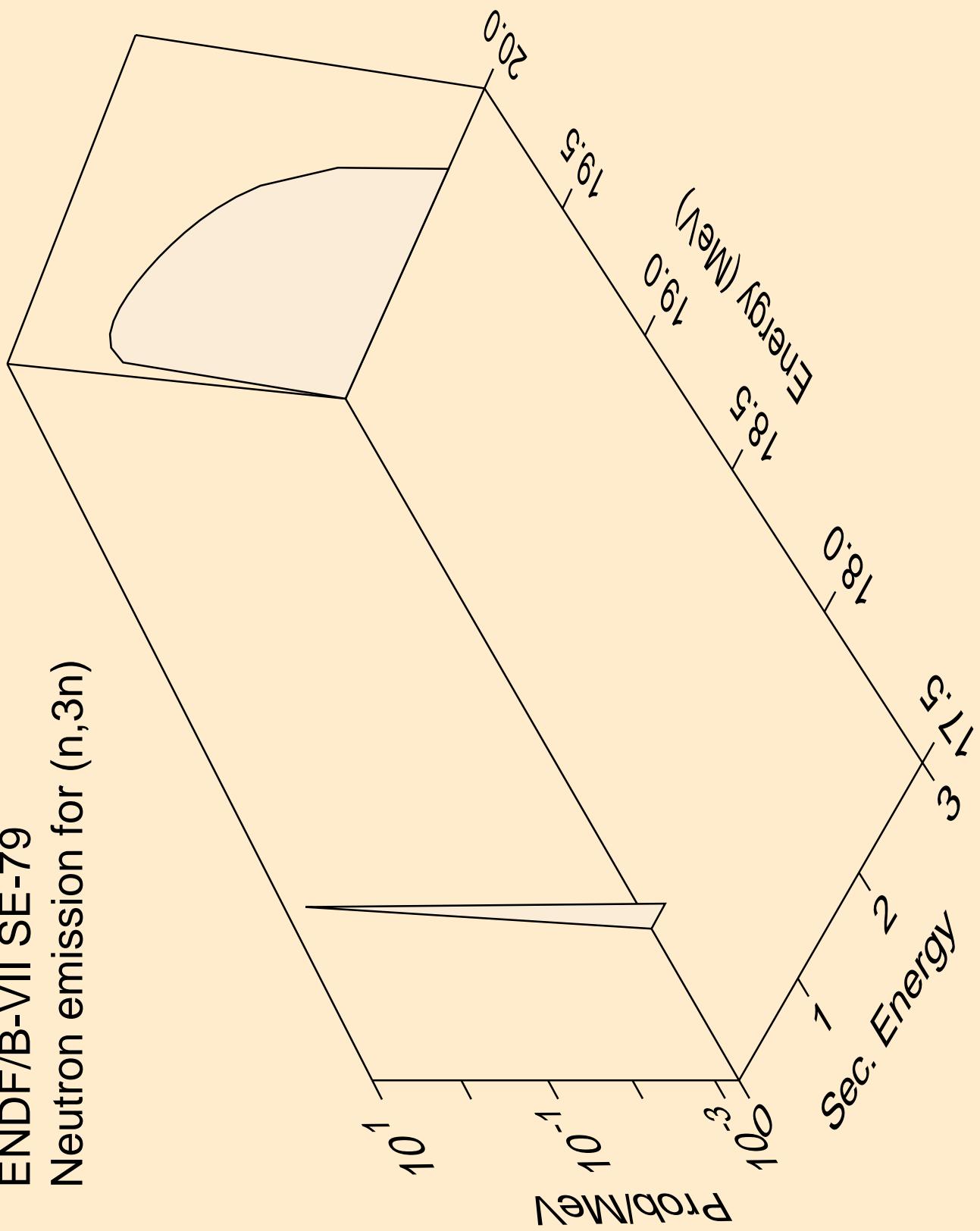
ENDF/B-VII SE-79

Neutron emission for  $(n,2n)$



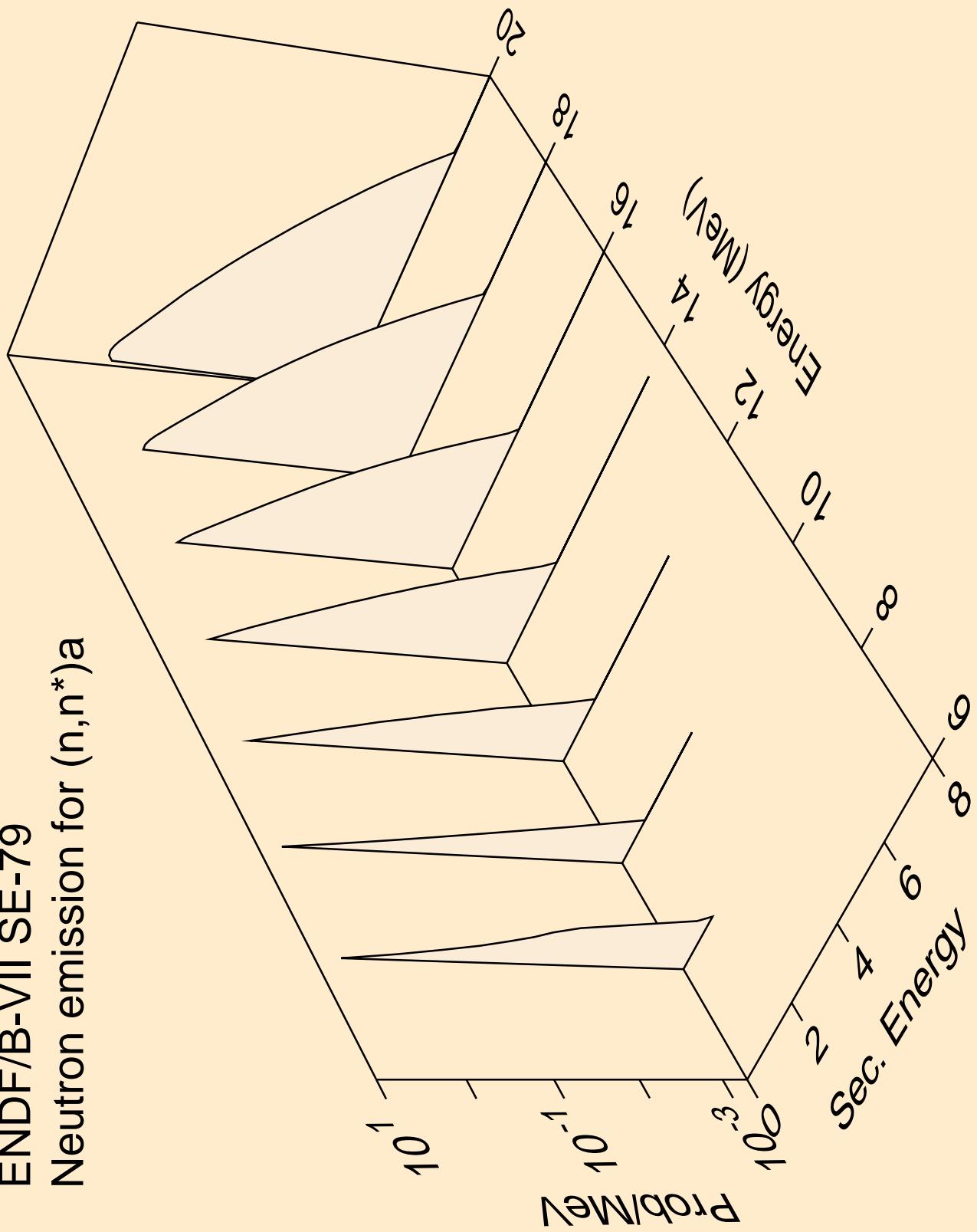
ENDF/B-VII SE-79

Neutron emission for  $(n,3n)$



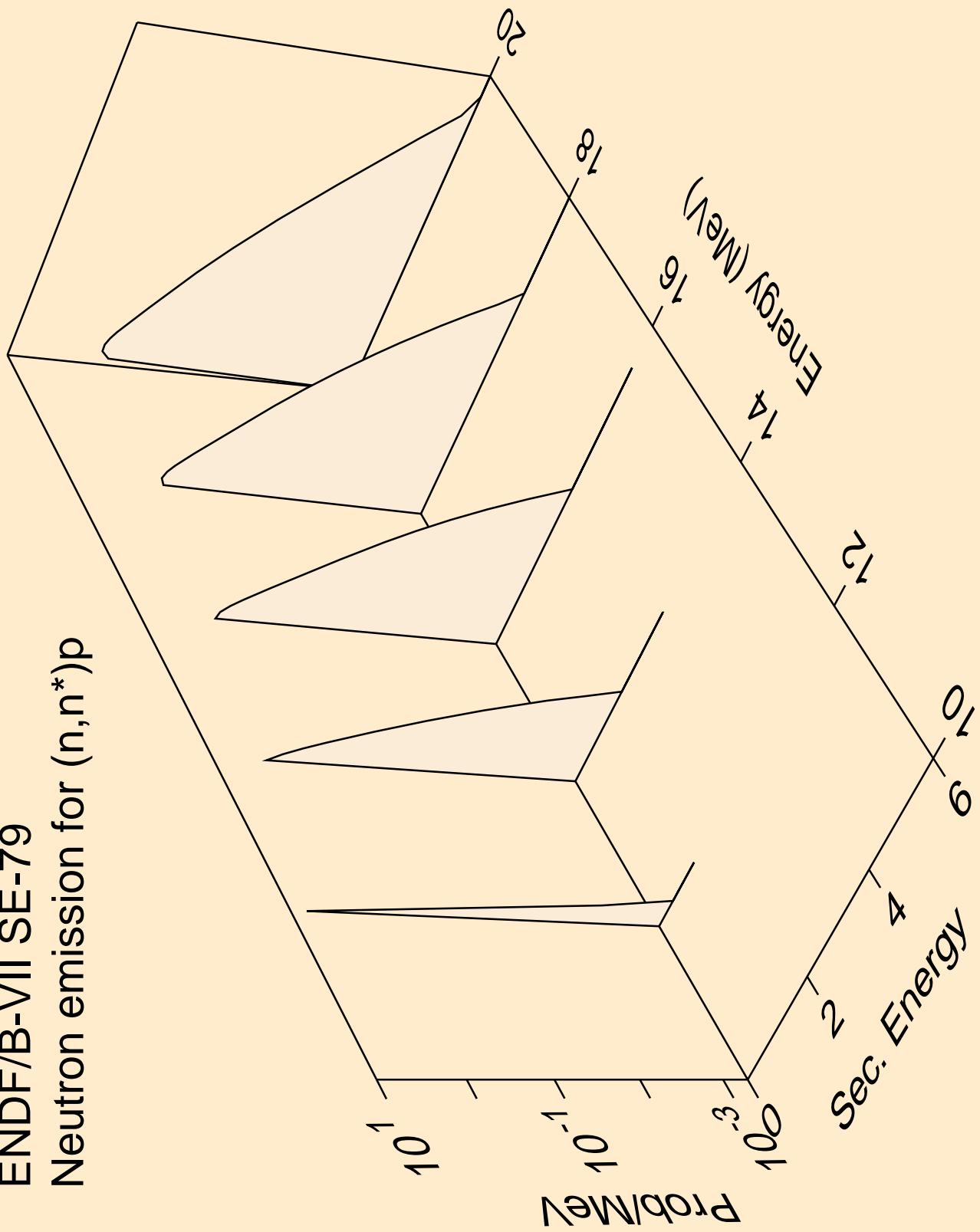
ENDF/B-VII SE-79

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



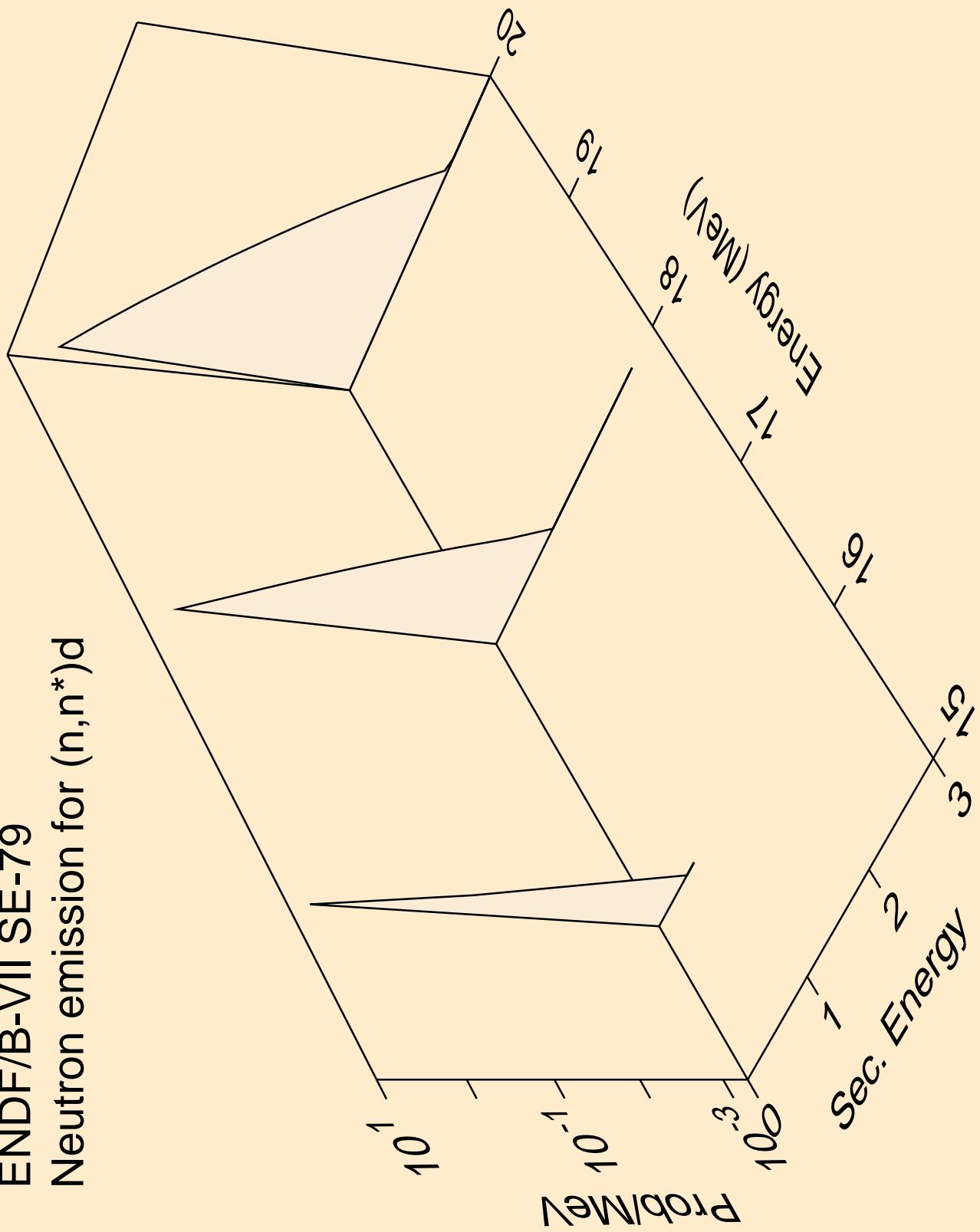
ENDF/B-VII SE-79

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



ENDF/B-VII SE-79

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



ENDF/B-VII SE-79

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

