

Program Complot  
(Version 2015-2)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550

U.S.A.

Tele: 925-443-1911

E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)

Web: [home.comcast.net/~redcullen1](http://home.comcast.net/~redcullen1)

Press Mouse Button to Start

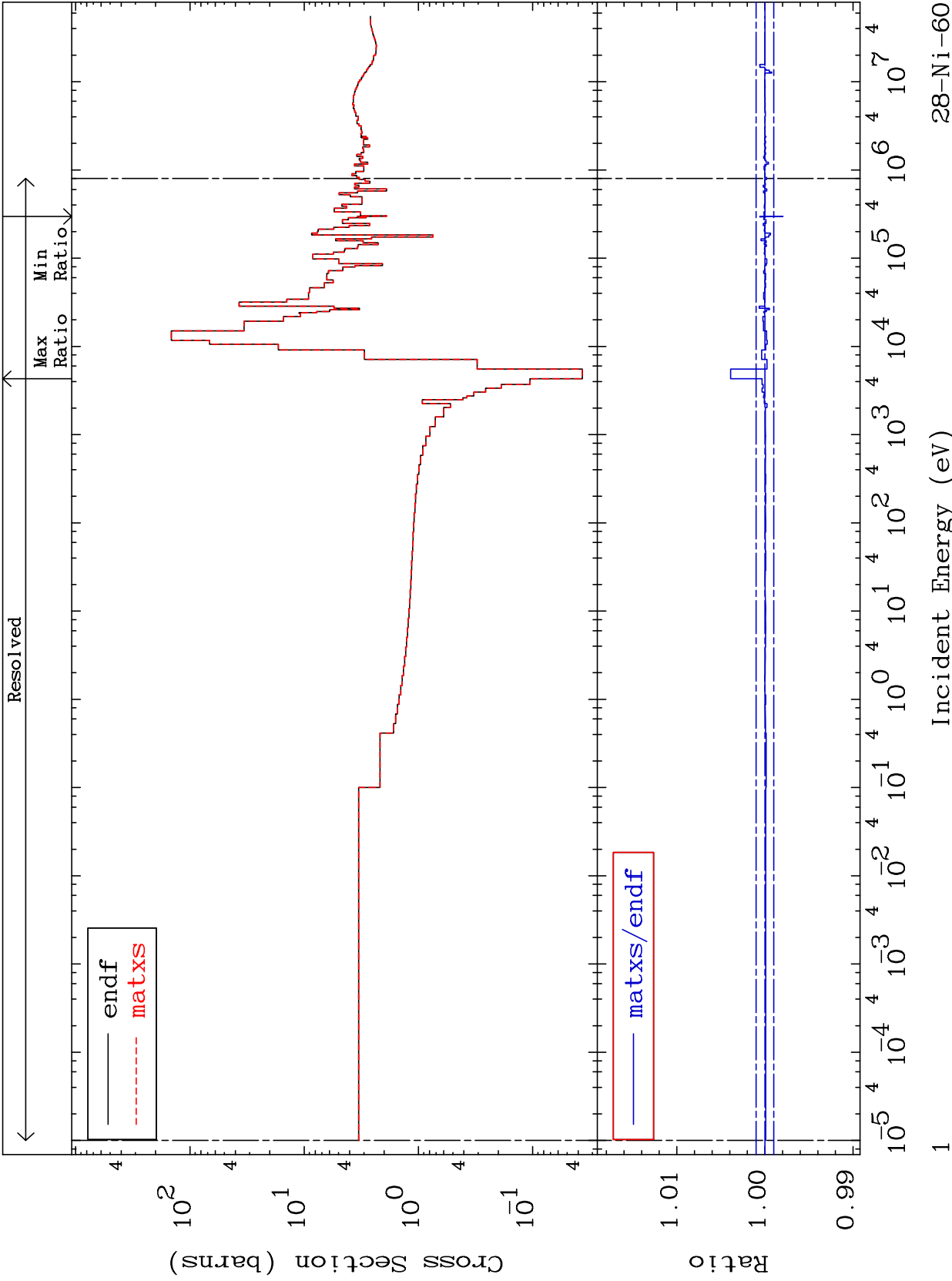
MAT 2831

Total

28-Ni-60

Cross Section

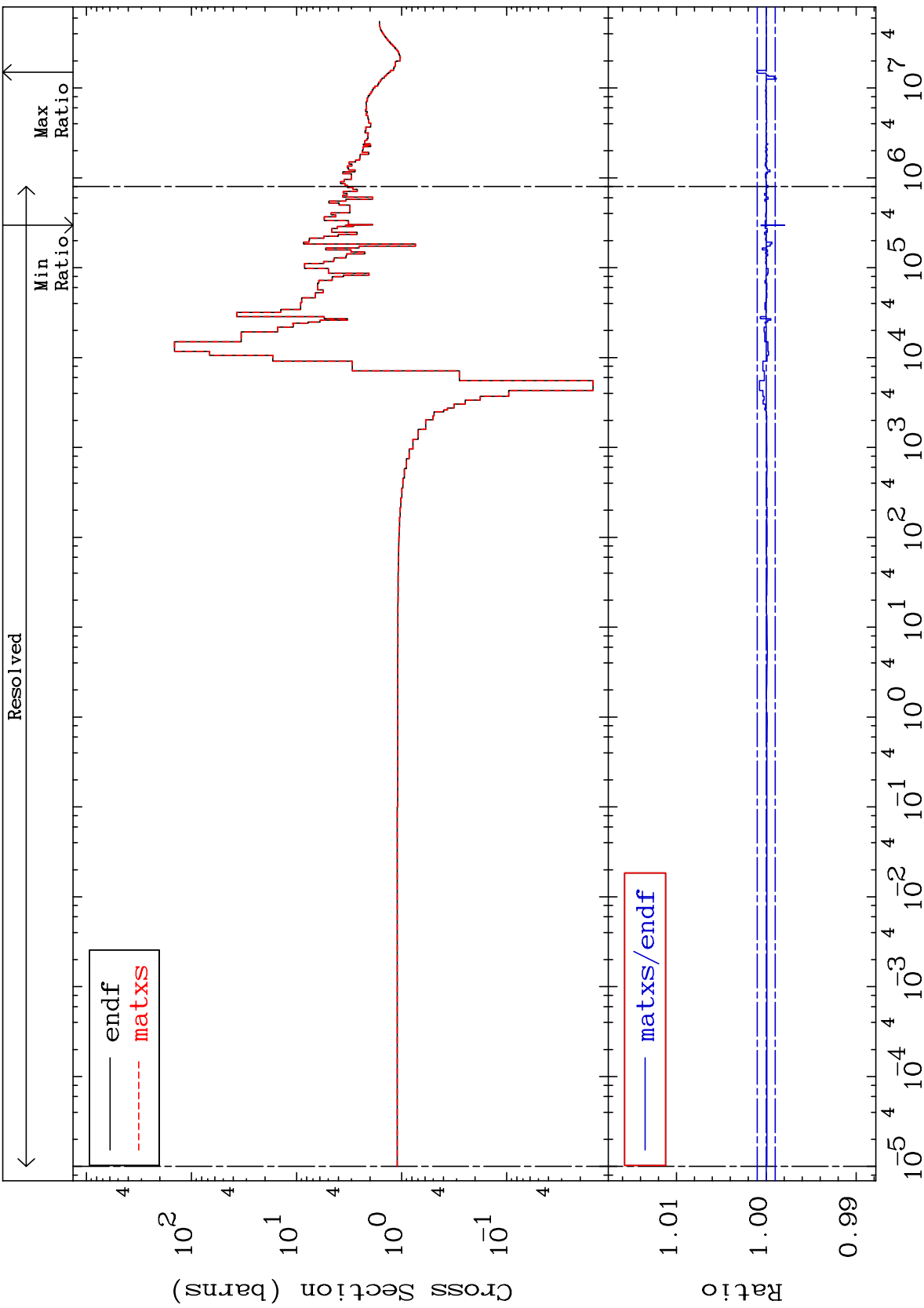
-0.205 To 0.390 %



MAT 2831

Elastic  
Cross Section

28-Ni-60  
-0.205 To 0.105 %



2

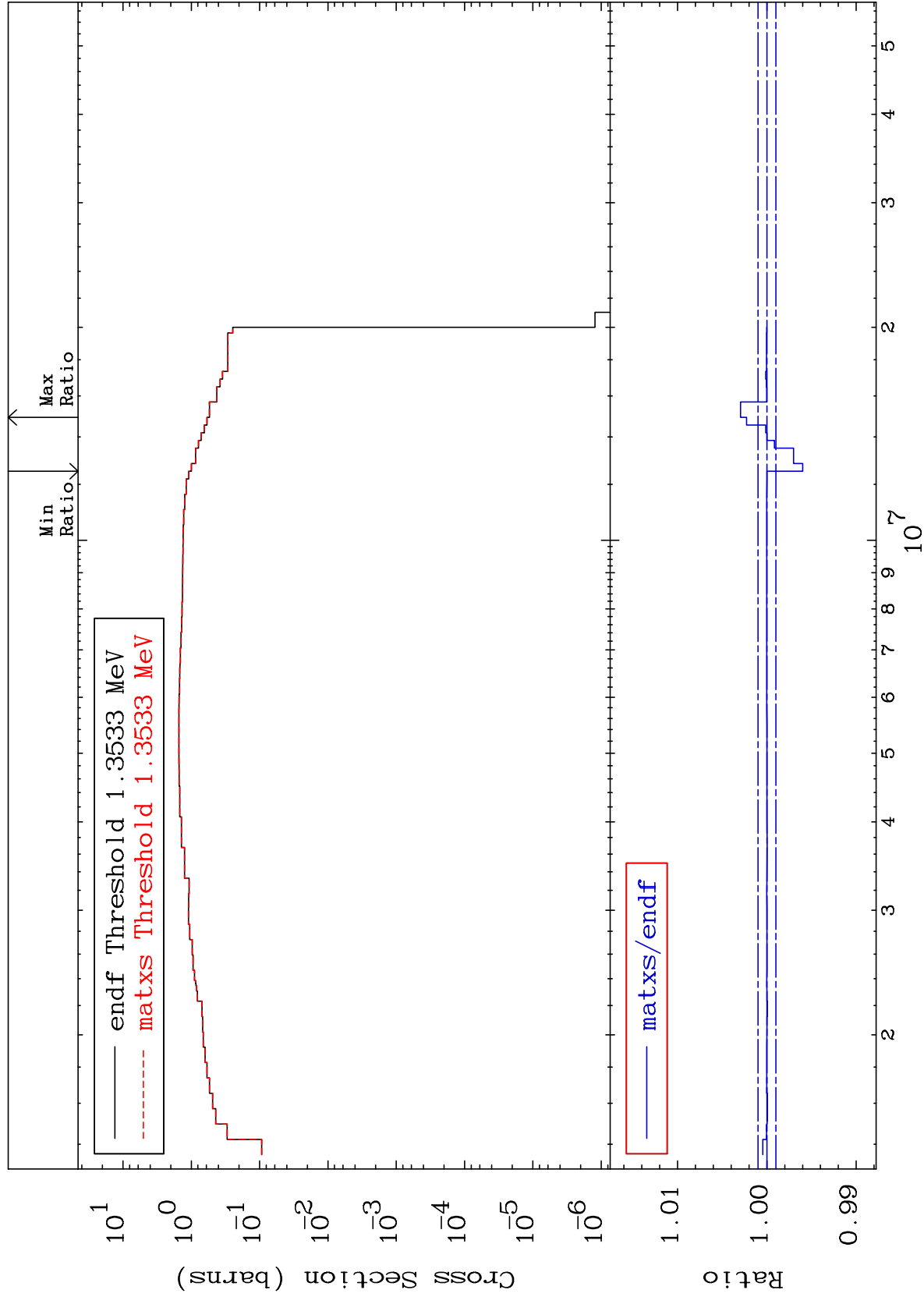
Incident Energy (eV)

28-Ni-60

MAT 2831

Inelastic  
Cross Section

28-Ni-60  
-0.401 To 0.294 %



3

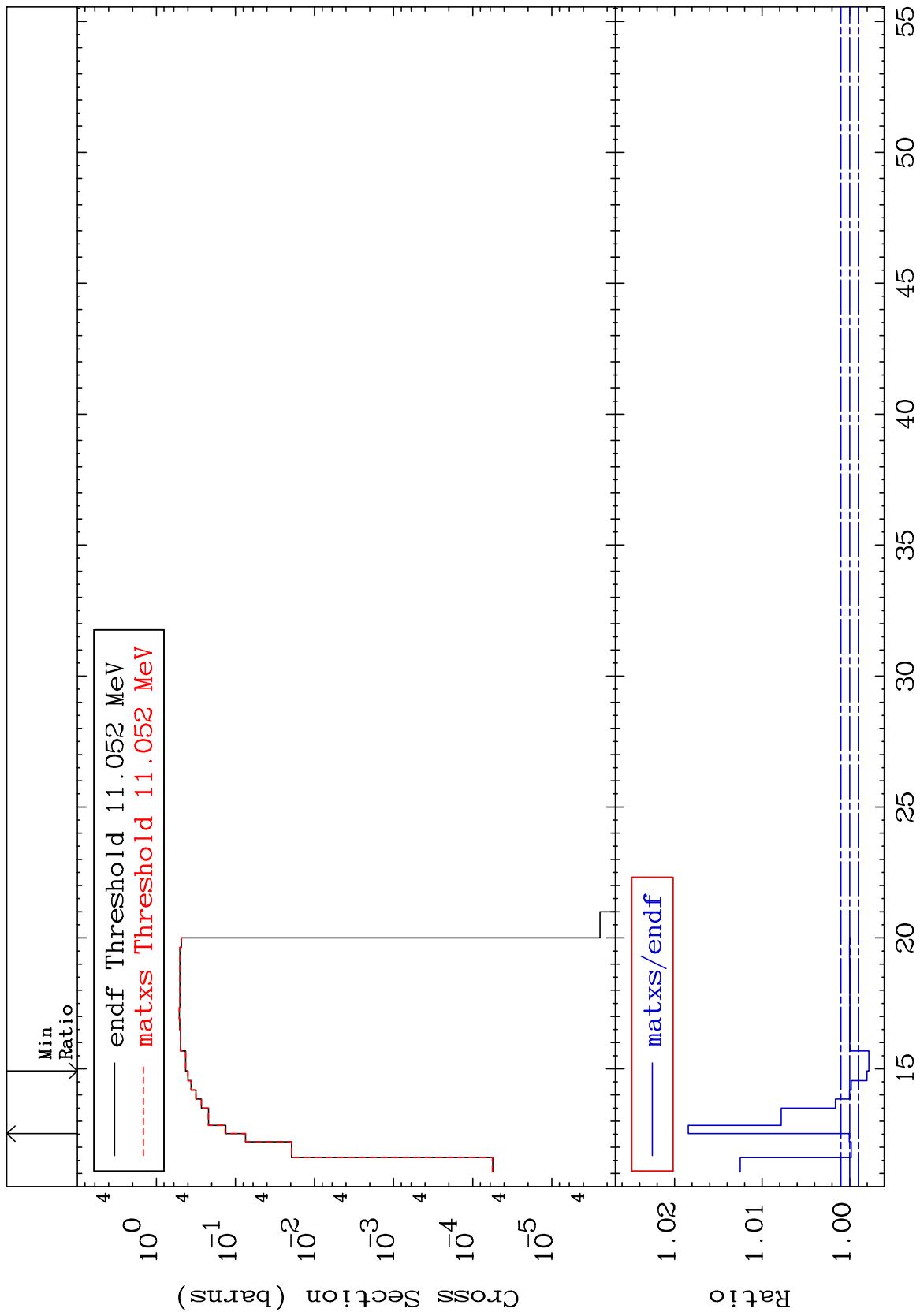
Incident Energy (eV)

28-Ni-60

MAT 2831

(n,2n)  
Cross Section

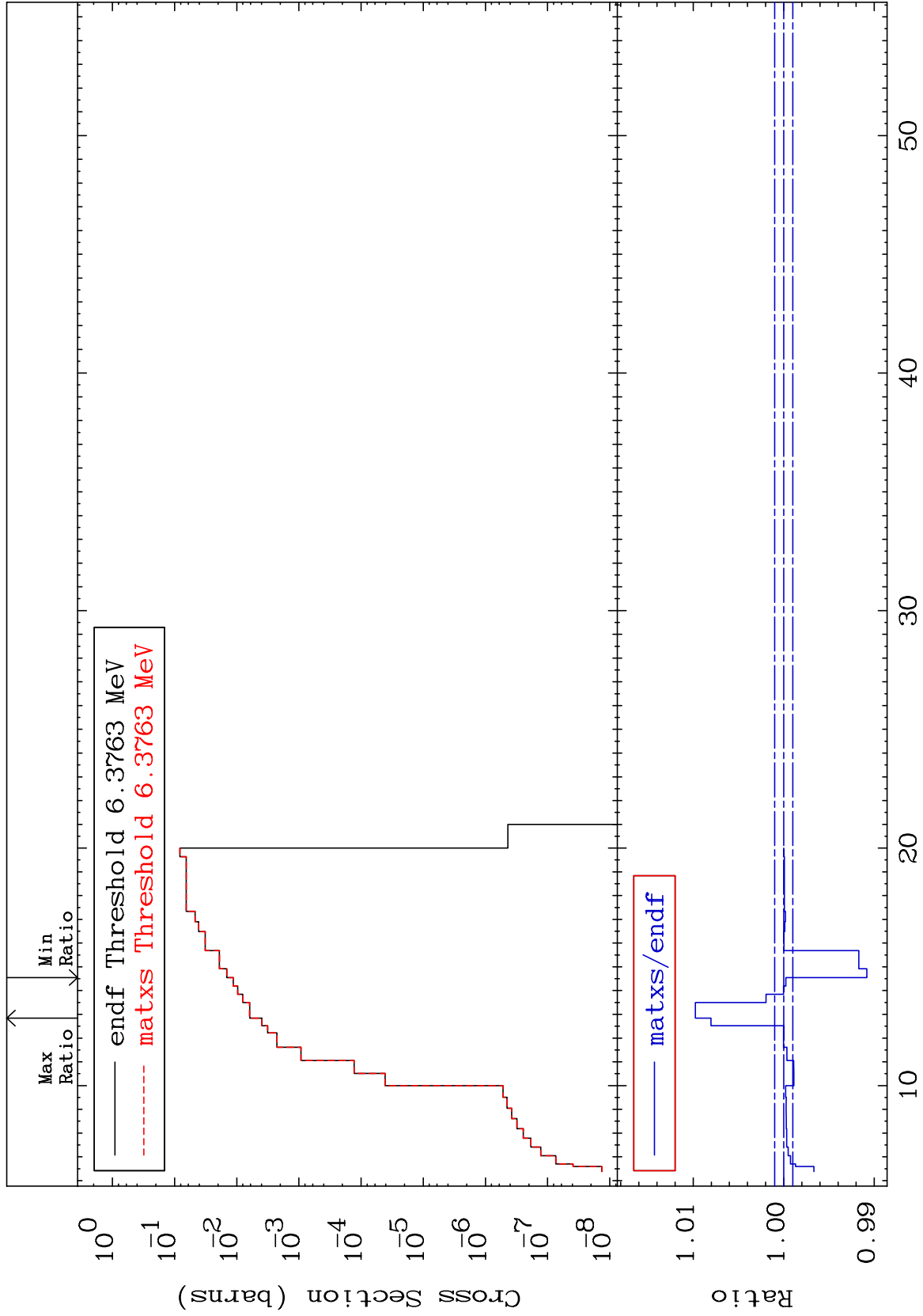
28-Ni-60  
-0.219 To 1.844 %



MAT 2831

(n, n')  $\alpha$   
Cross Section

28-Ni-60  
-0.918 To 0.975 %



5

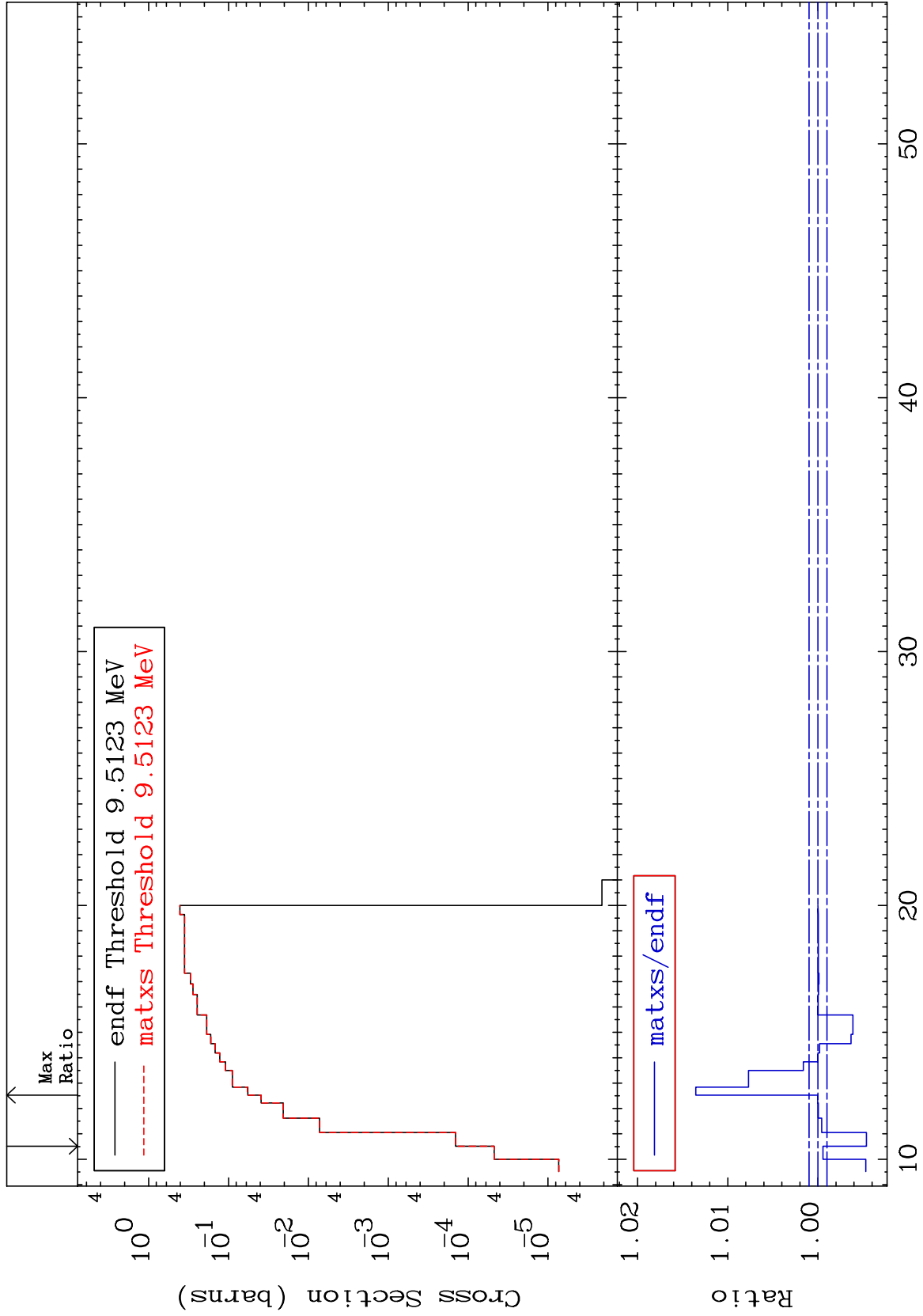
Incident Energy (MeV)

28-Ni-60

MAT 2831

(n, n') p  
Cross Section

28-Ni-60  
-0.537 To 1.354 %



6

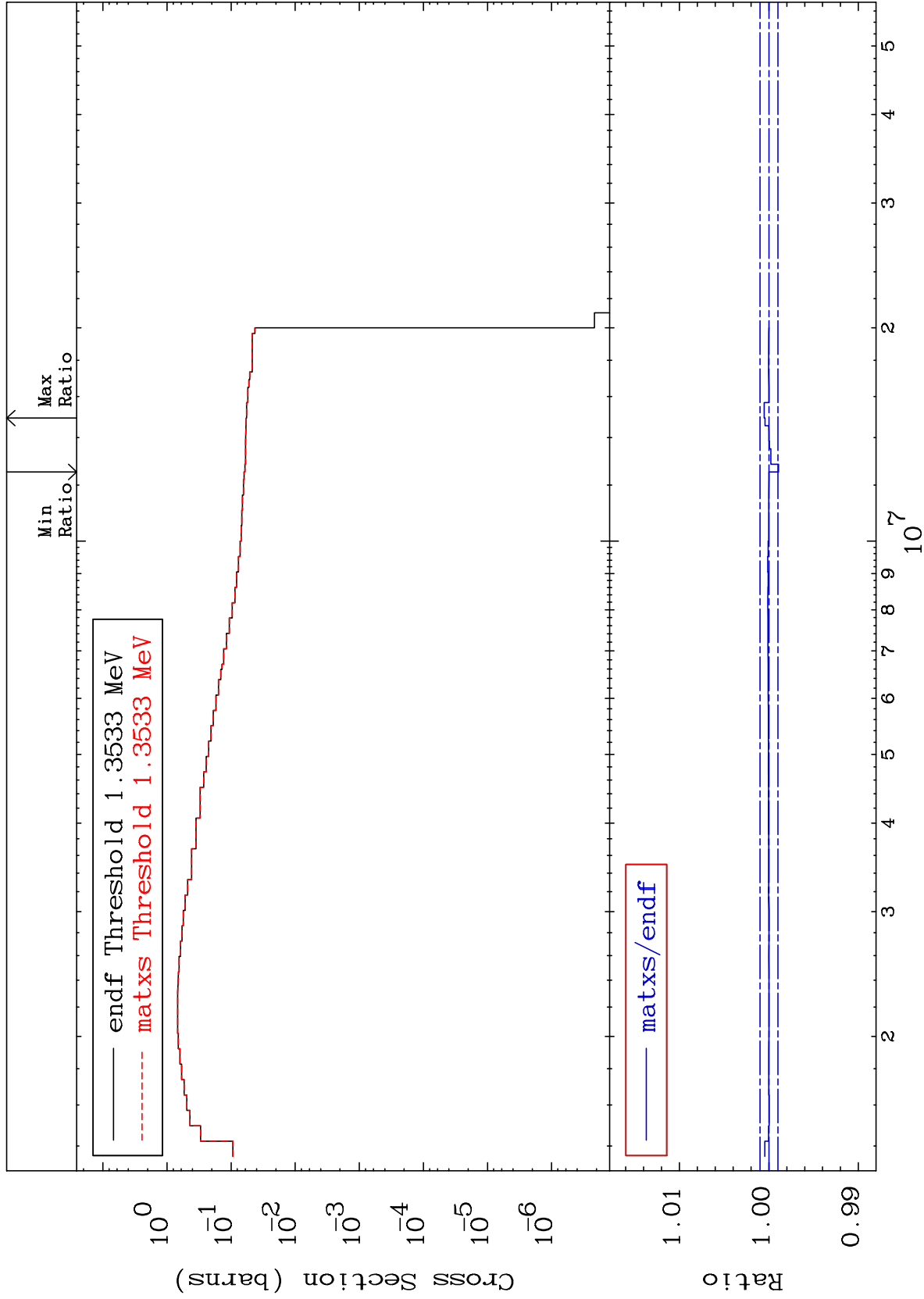
Incident Energy (MeV)

28-Ni-60

MAT 2831

1.333 MeV (n,n') Level  
Cross Section

28-Ni-60  
-0.107 To 0.052 %



7

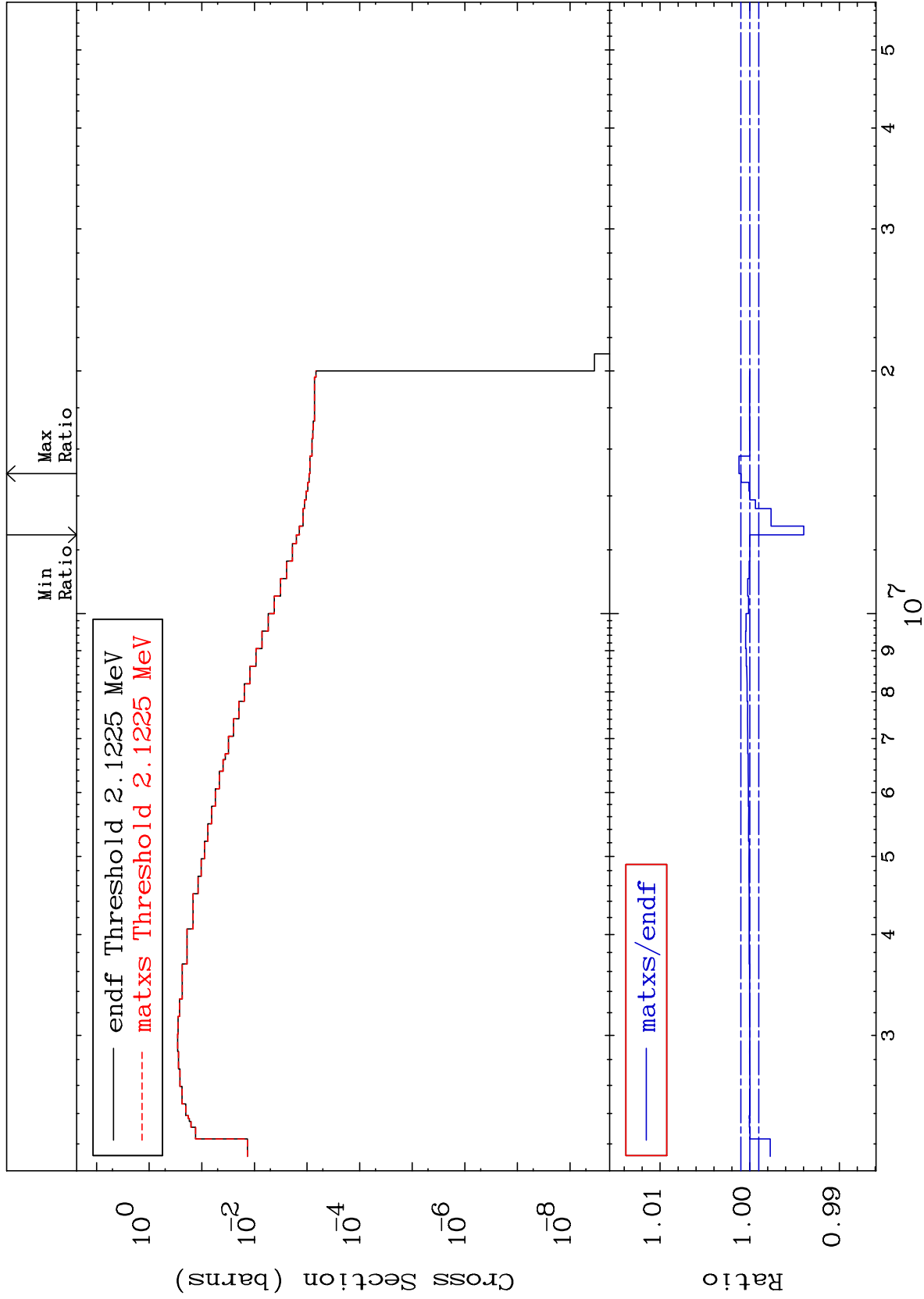
28-Ni-60



MAT 2831

2.159 MeV (n,n') Level  
Cross Section

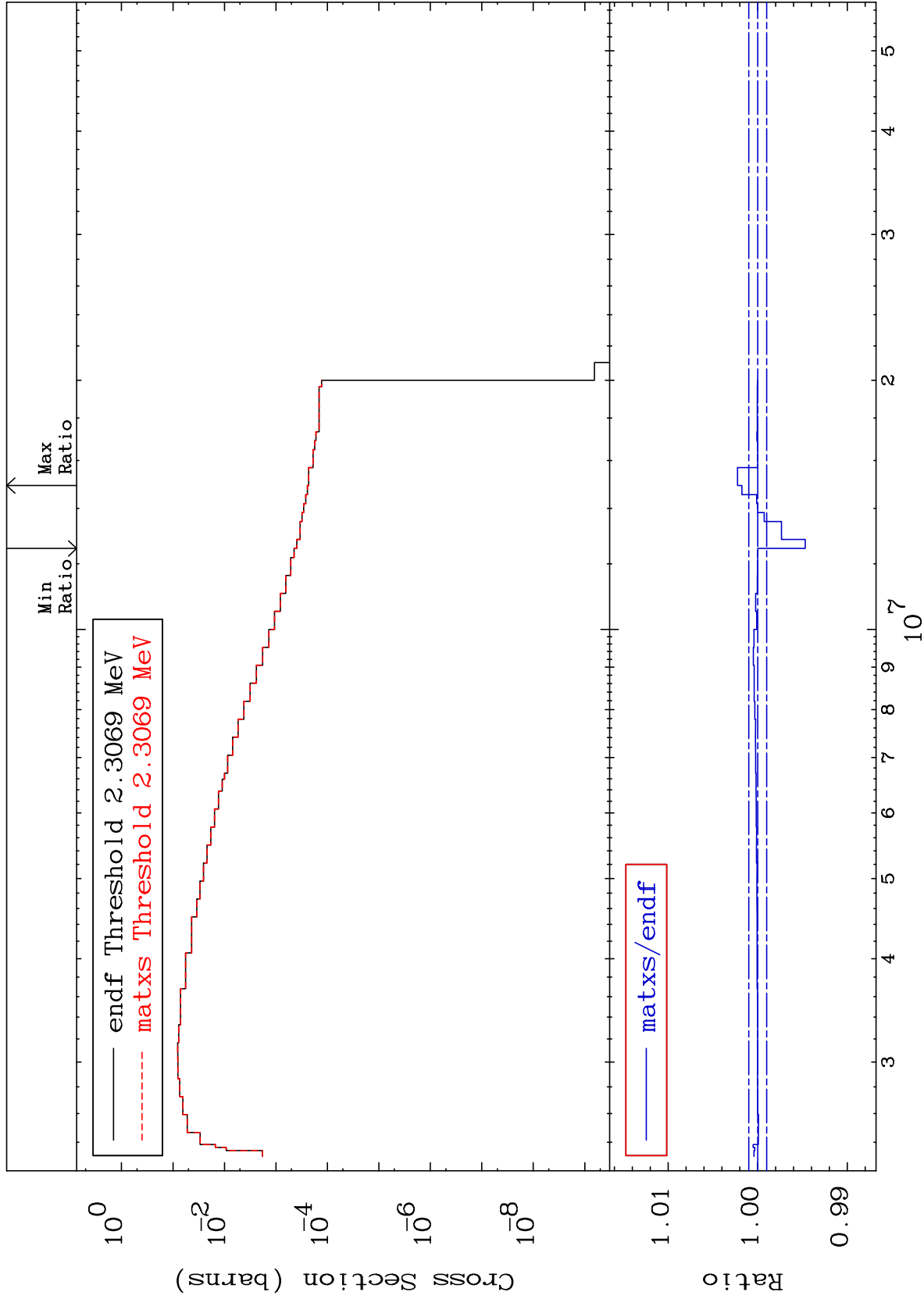
28-Ni-60  
-0.603 To 0.121 %



MAT 2831

2.285 MeV (n,n') Level  
Cross Section

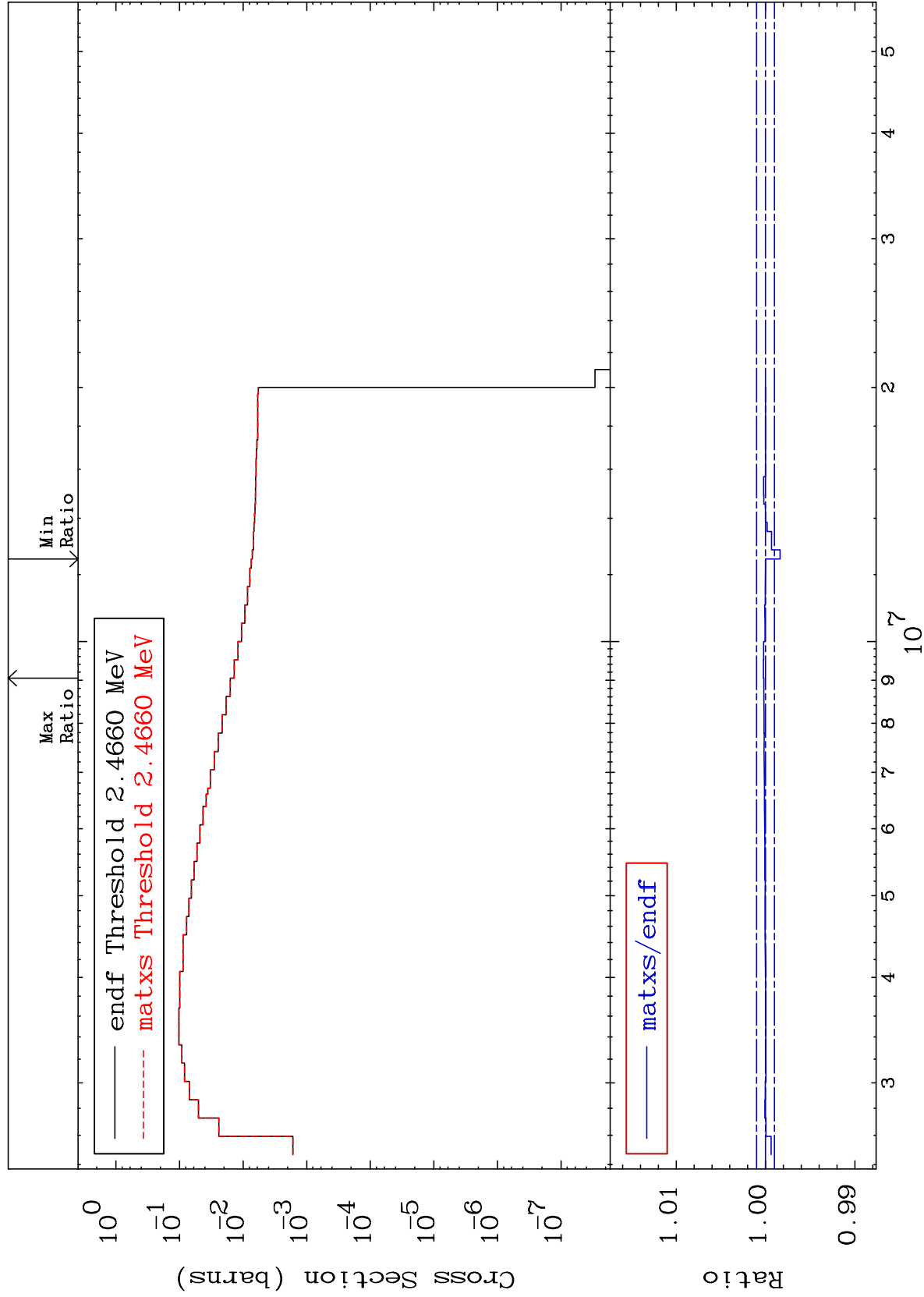
28-Ni-60  
-0.530 To 0.224 %



MAT 2831

2.506 MeV (n,n') Level  
Cross Section

28-Ni-60  
-0.161 To 0.025 %



10

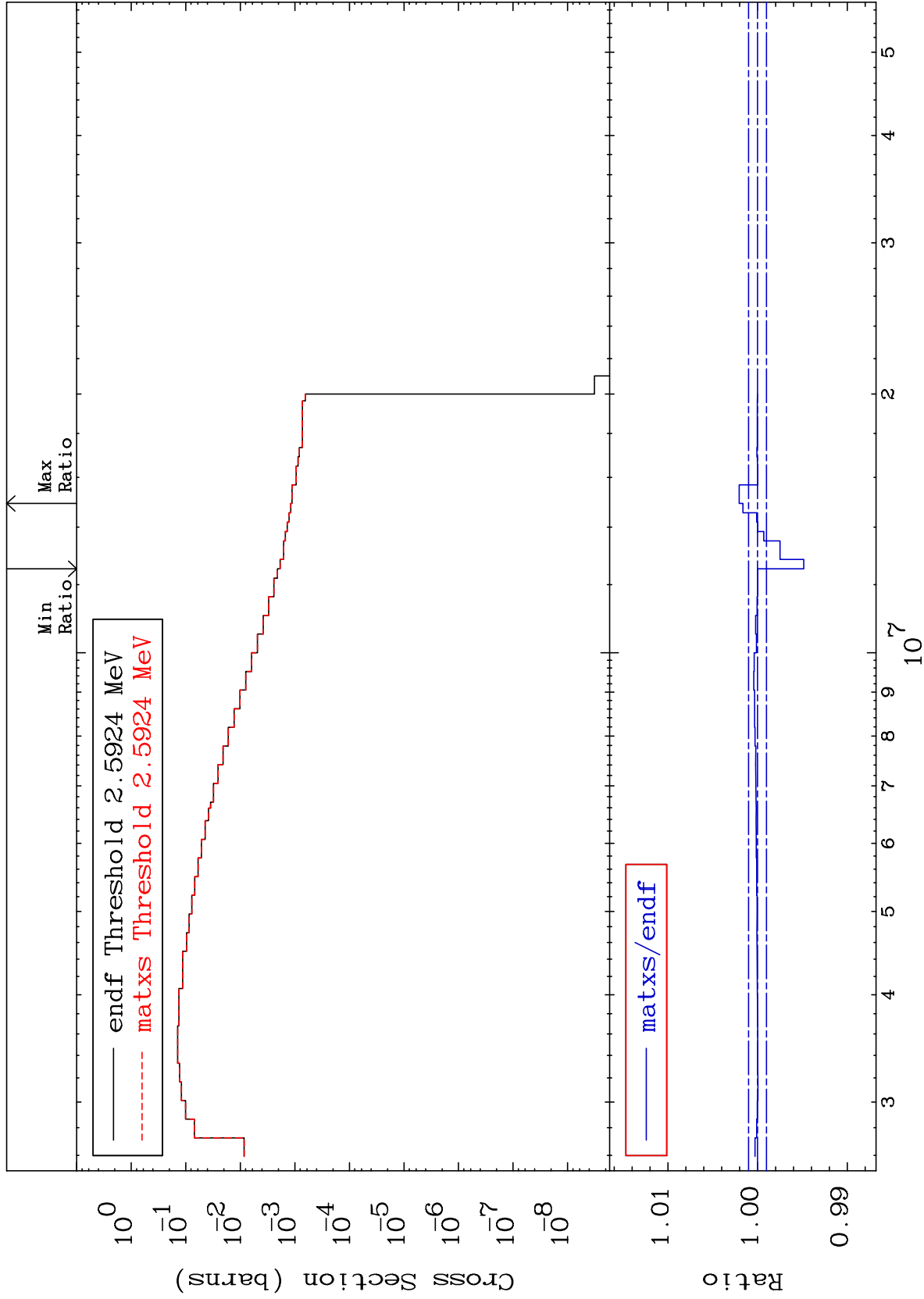
Incident Energy (eV)

28-Ni-60

MAT 2831

2.626 MeV (n,n') Level  
Cross Section

28-Ni-60  
-0.514 To 0.207 %



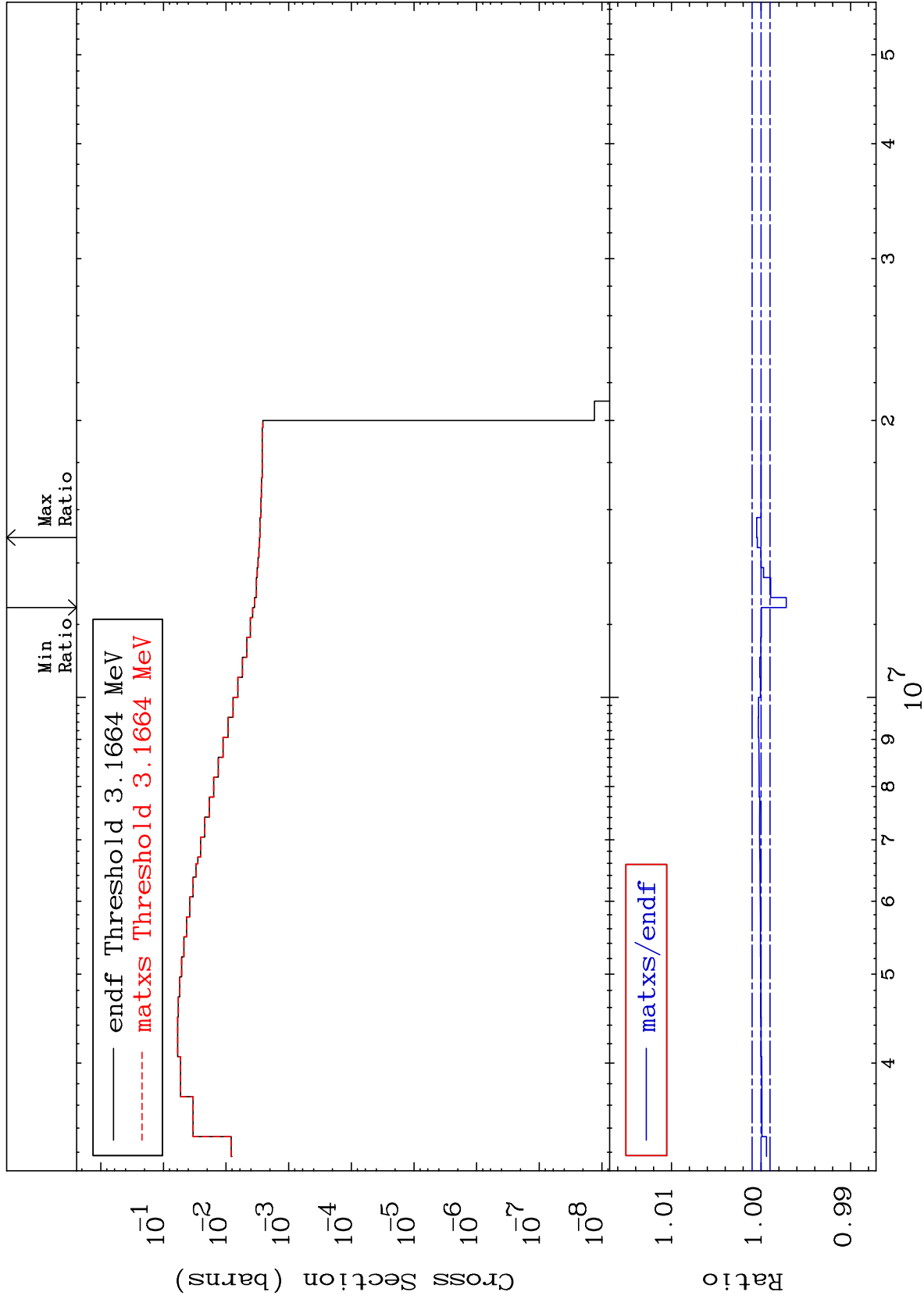
11

28-Ni-60

MAT 2831

3.120 MeV (n,n') Level  
Cross Section

28-Ni-60  
-0.280 To 0.050 %



12

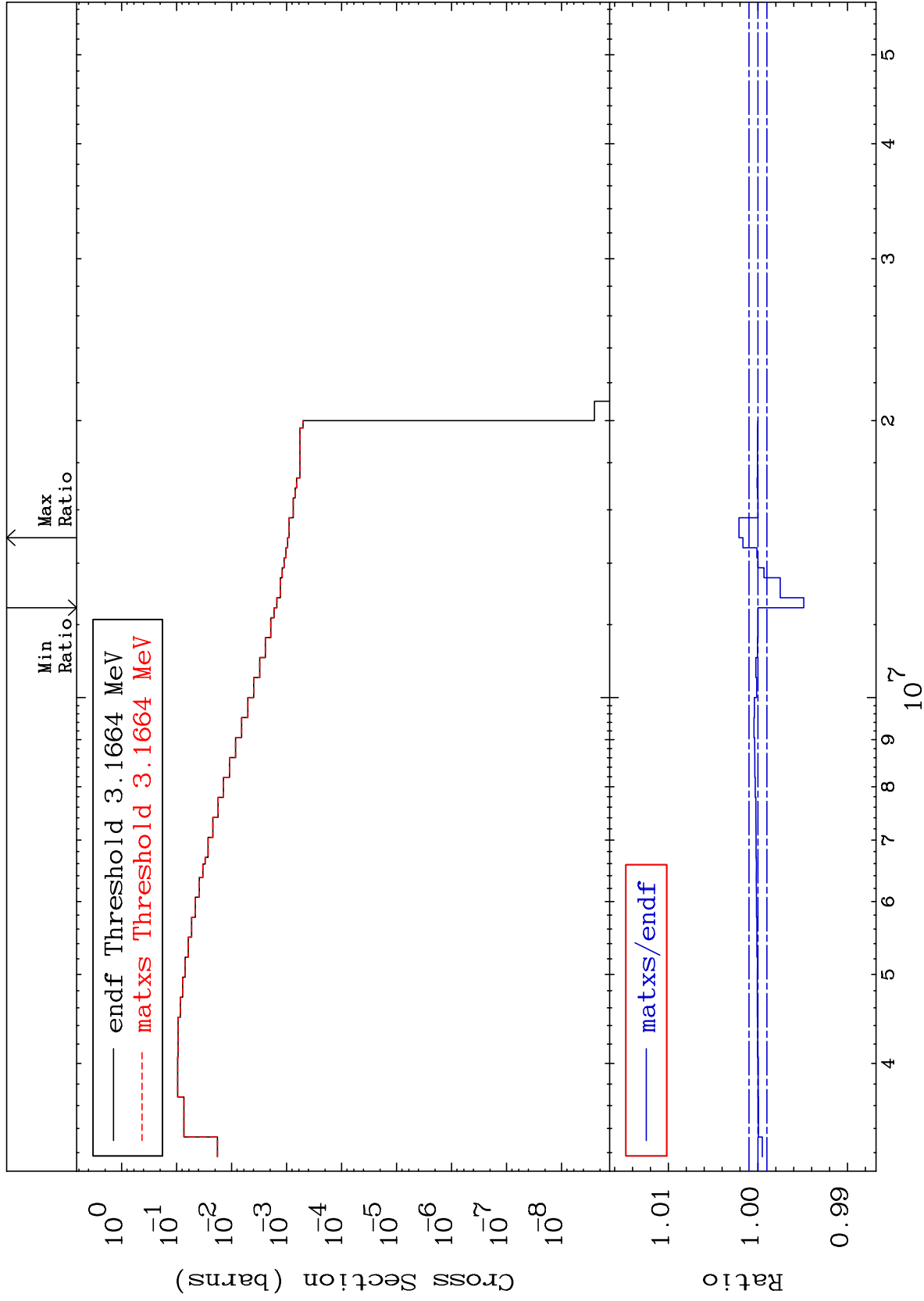
Incident Energy (eV)

28-Ni-60

MAT 2831

3.124 MeV (n,n') Level  
Cross Section

28-Ni-60  
-0.513 To 0.212 %



13

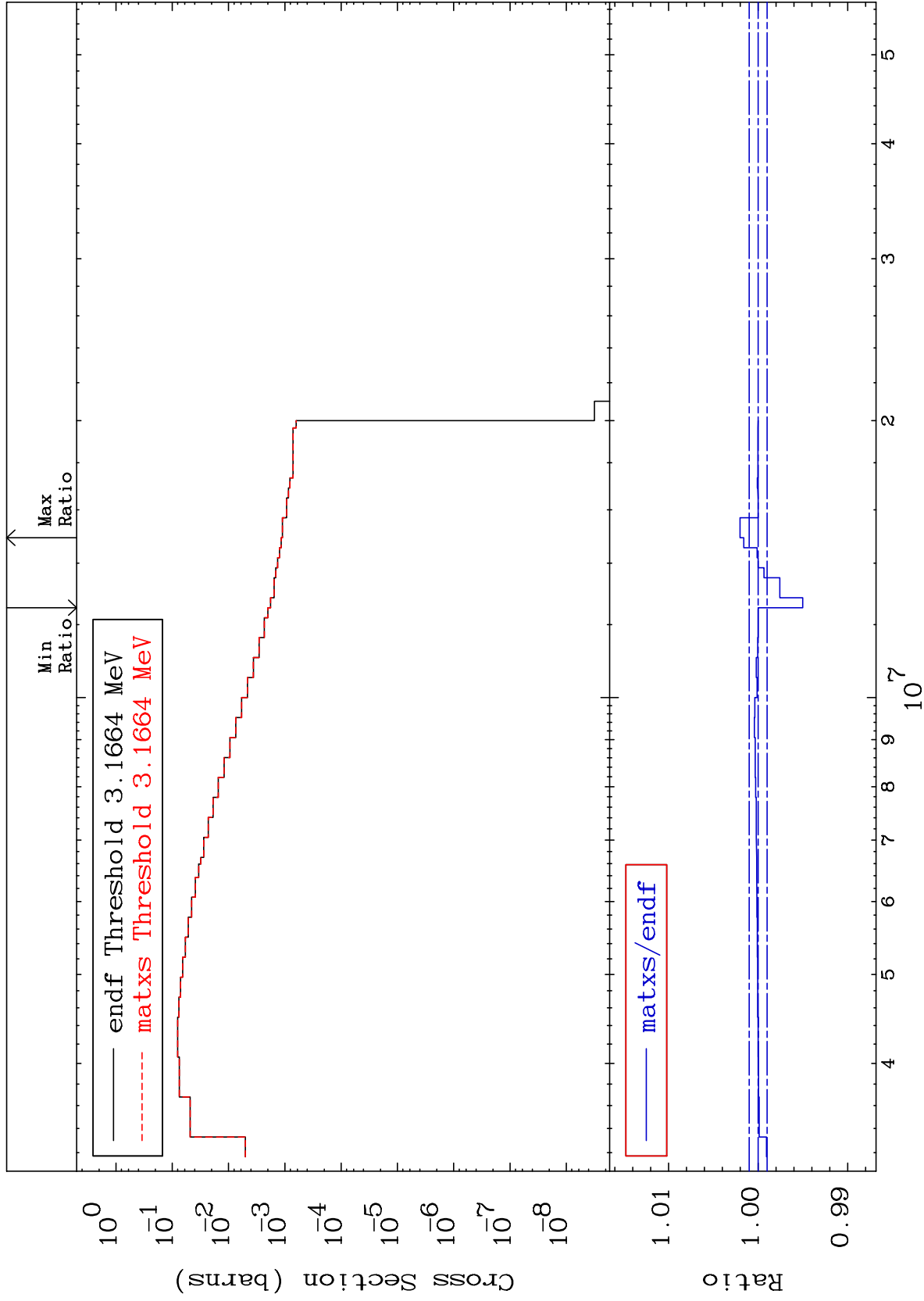
Incident Energy (eV)

28-Ni-60

MAT 2831

3.186 MeV (n,n') Level  
Cross Section

28-Ni-60  
-0.498 To 0.202 %



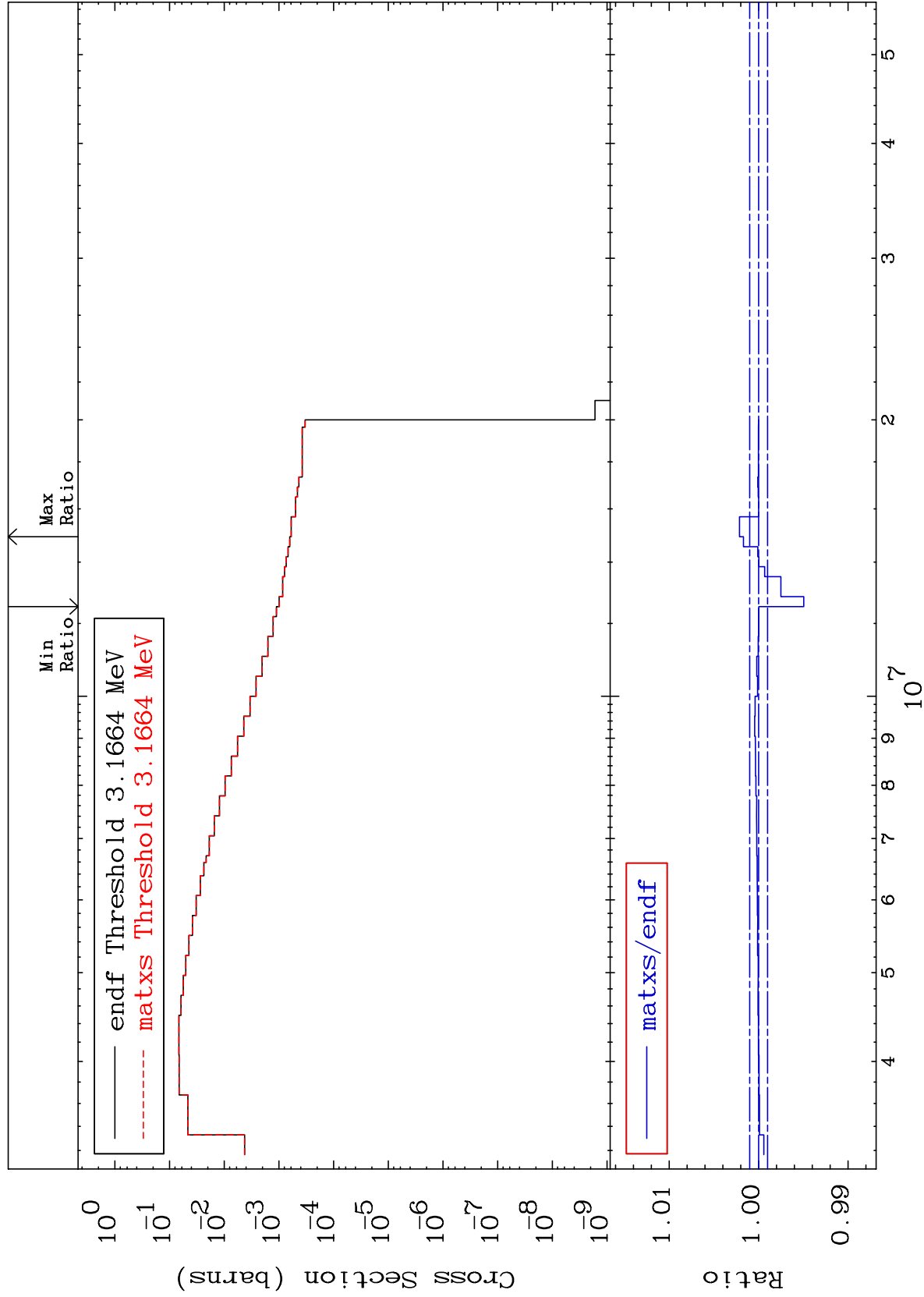
14

28-Ni-60

MAT 2831

3.194 MeV (n,n') Level  
Cross Section

28-Ni-60  
-0.505 To 0.215 %



15

Incident Energy (eV)

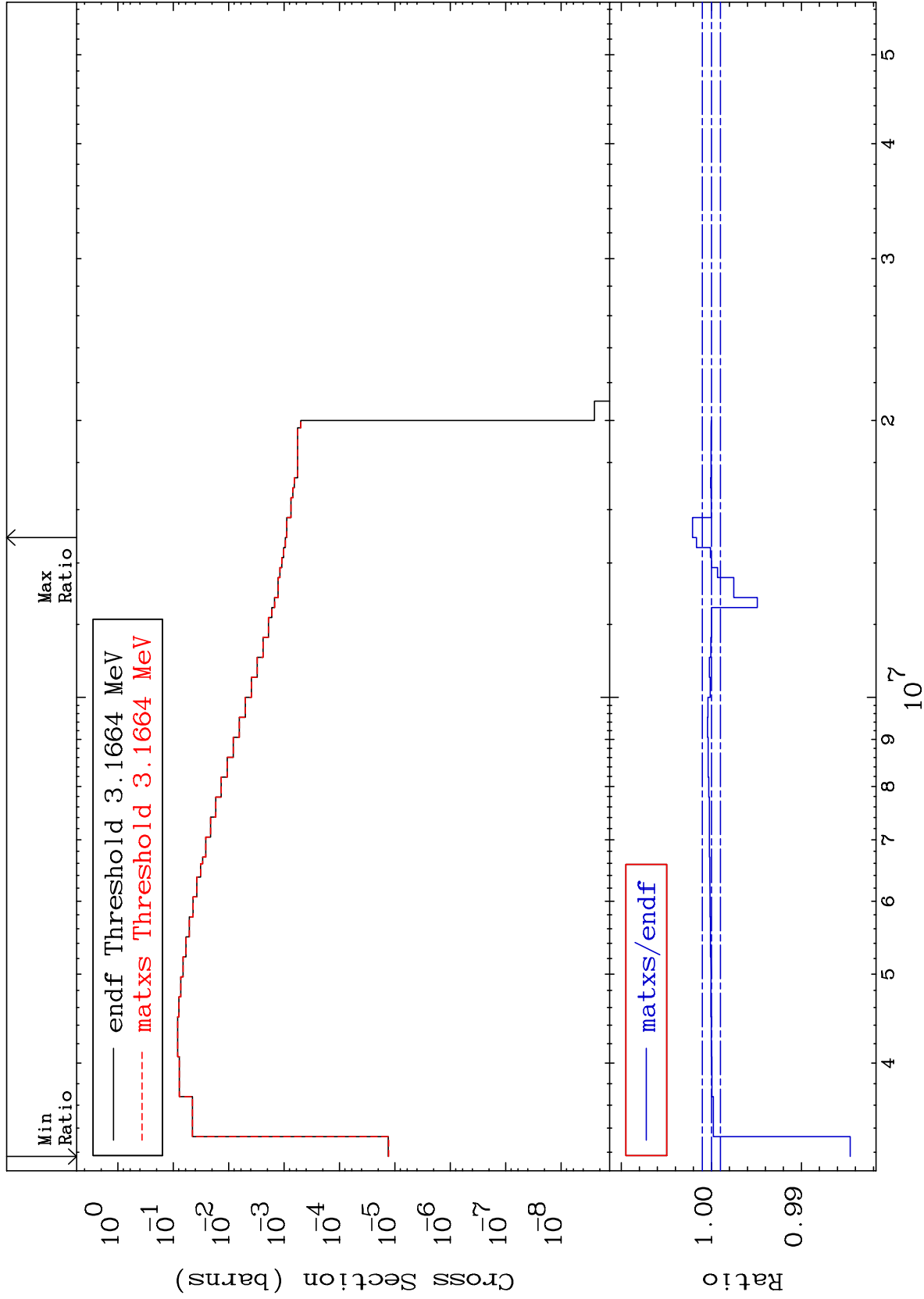
28-Ni-60



MAT 2831

3.270 MeV (n,n') Level  
Cross Section

28-Ni-60  
-1.543 To 0.210 %



16

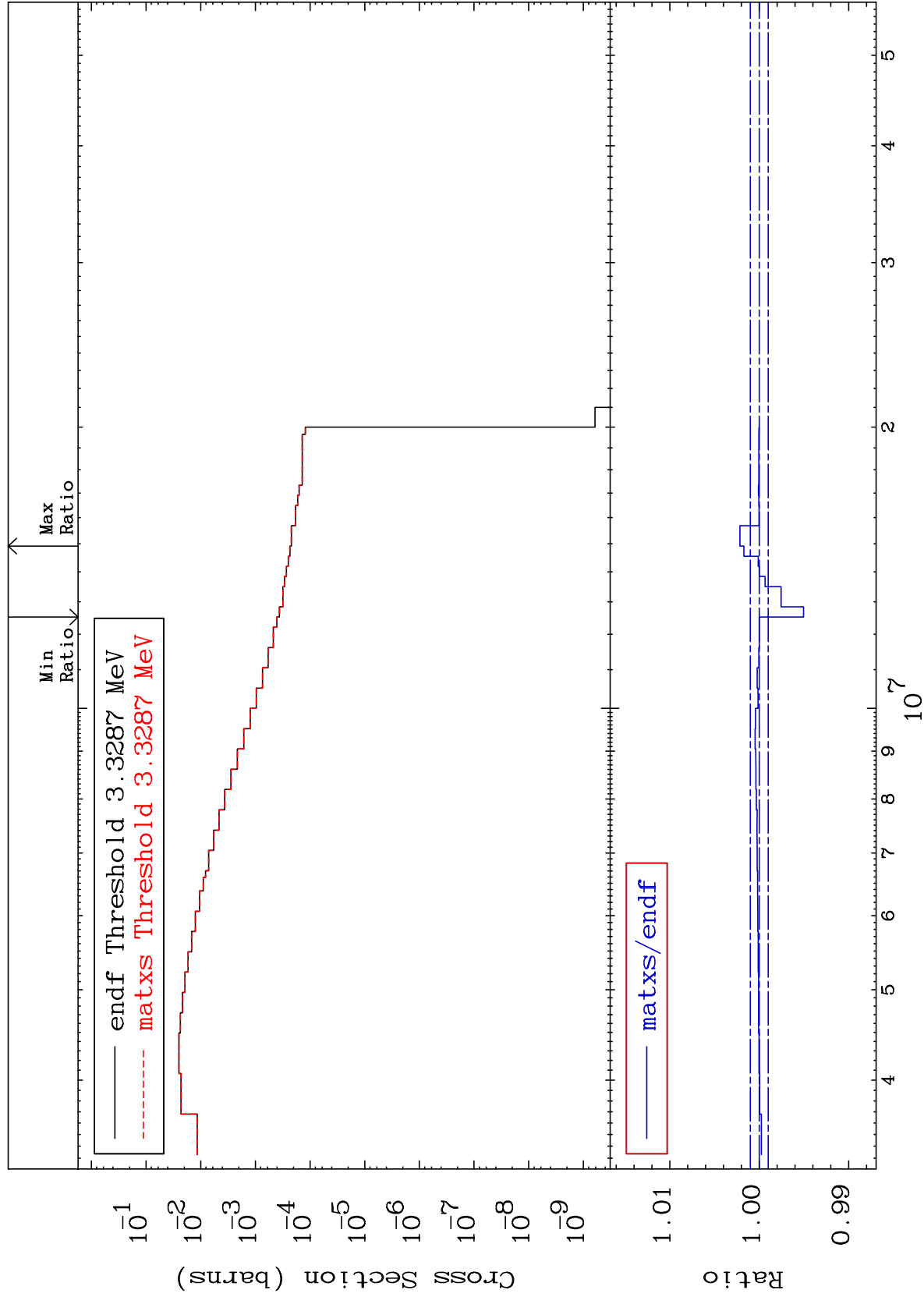
28-Ni-60

28-Ni-60

MAT 2831

3.318 MeV (n,n') Level  
Cross Section

28-Ni-60  
-0.495 To 0.216 %



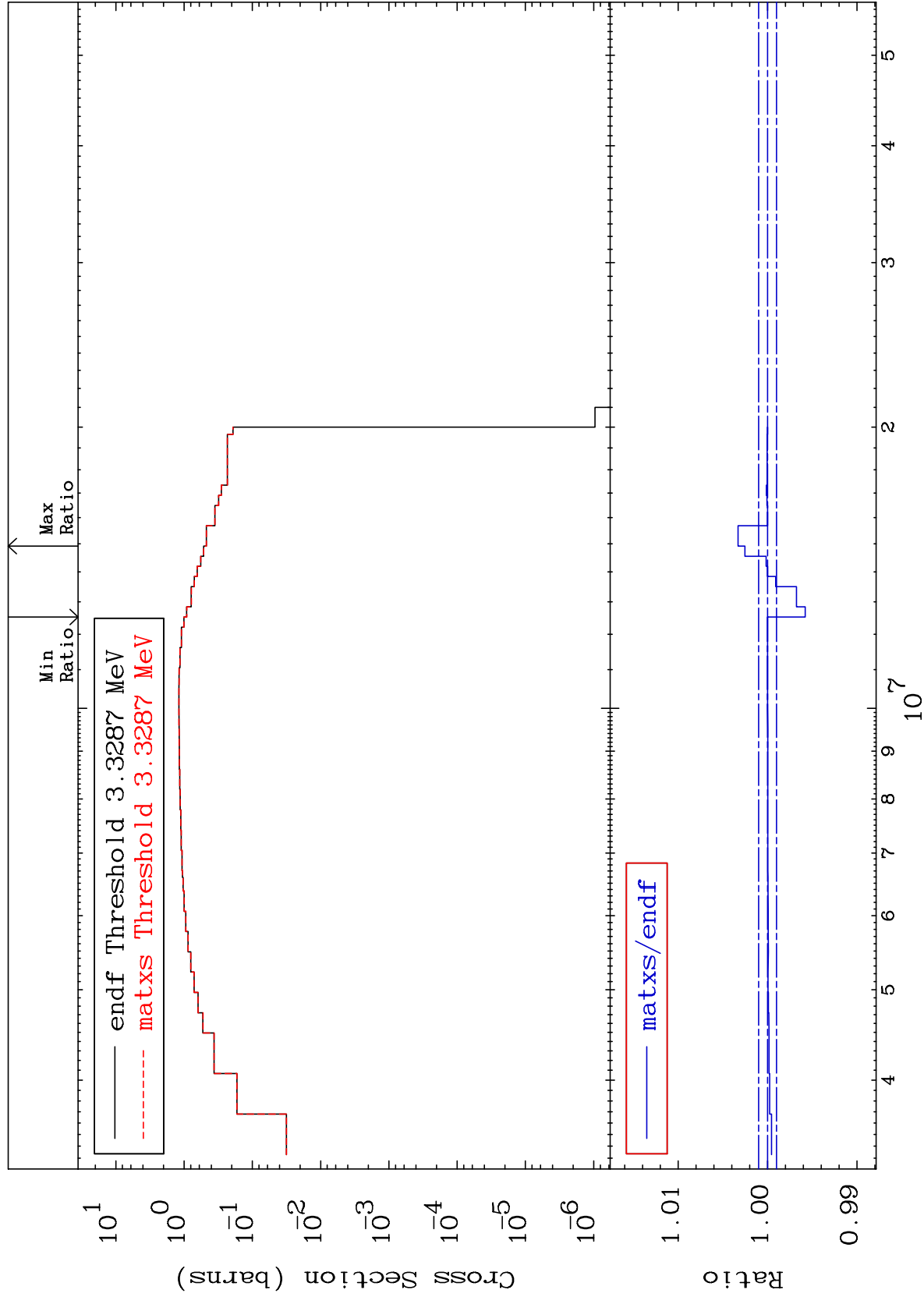
17

28-Ni-60

MAT 2831

(n, n') Continuum  
Cross Section

28-Ni-60  
-0.421 To 0.330 %



18

Incident Energy (eV)

28-Ni-60

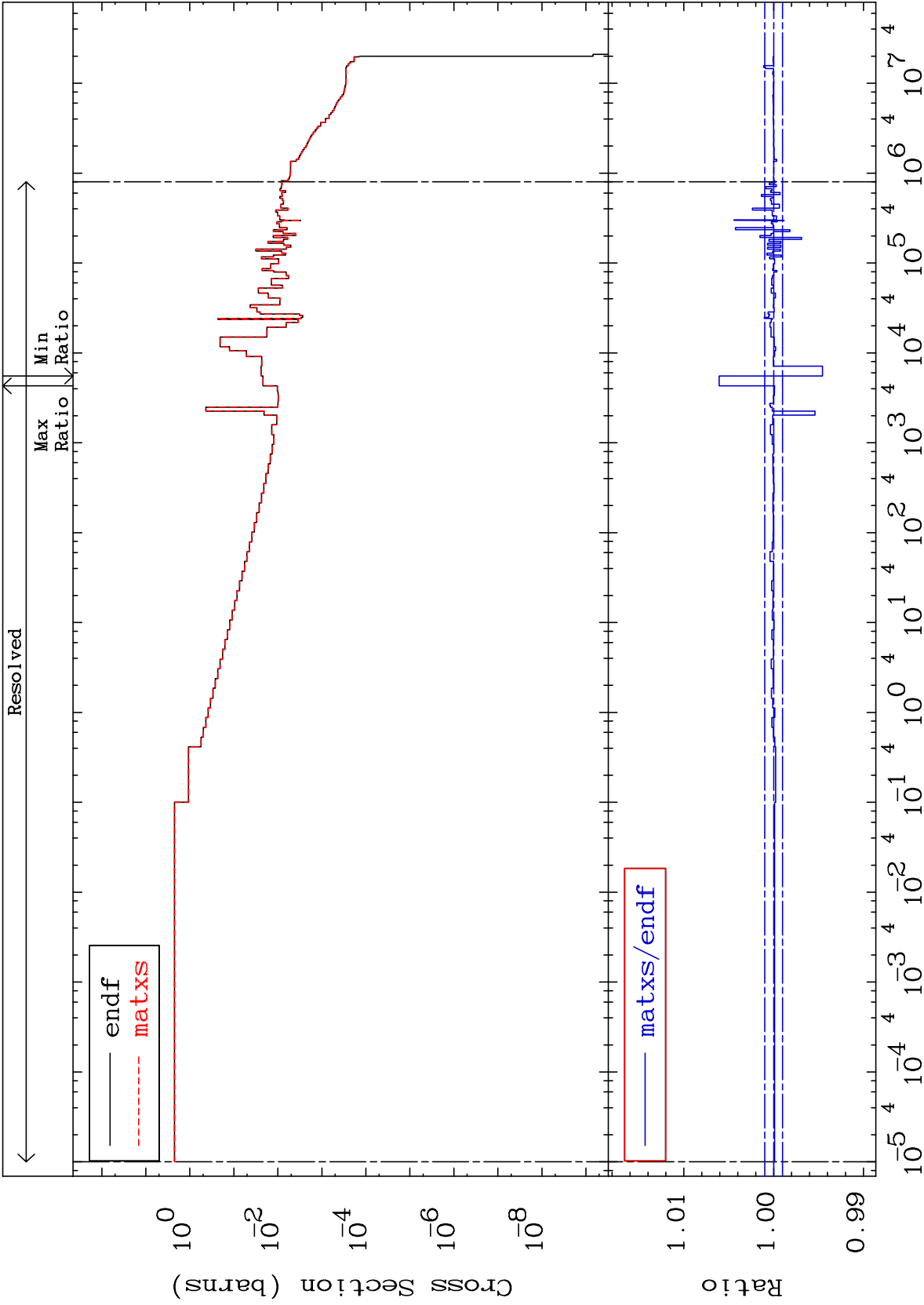
MAT 2831

(n,  $\gamma$ )

28-Ni-60

Cross Section

-0.543 To 0.608 %



MAT 2831

(n,p)

28-Ni-60

Cross Section

-0.112 To 0.295 %

Min Ratio

Max Ratio

— endf Threshold 2.0190 MeV  
- - - matxs Threshold 2.0190 MeV

— matxs/endlf

10<sup>0</sup>  
10<sup>-2</sup>  
10<sup>-4</sup>  
10<sup>-6</sup>  
10<sup>-8</sup>  
1.01  
1.00  
0.99

Cross Section (barns)

Ratio

10<sup>7</sup>

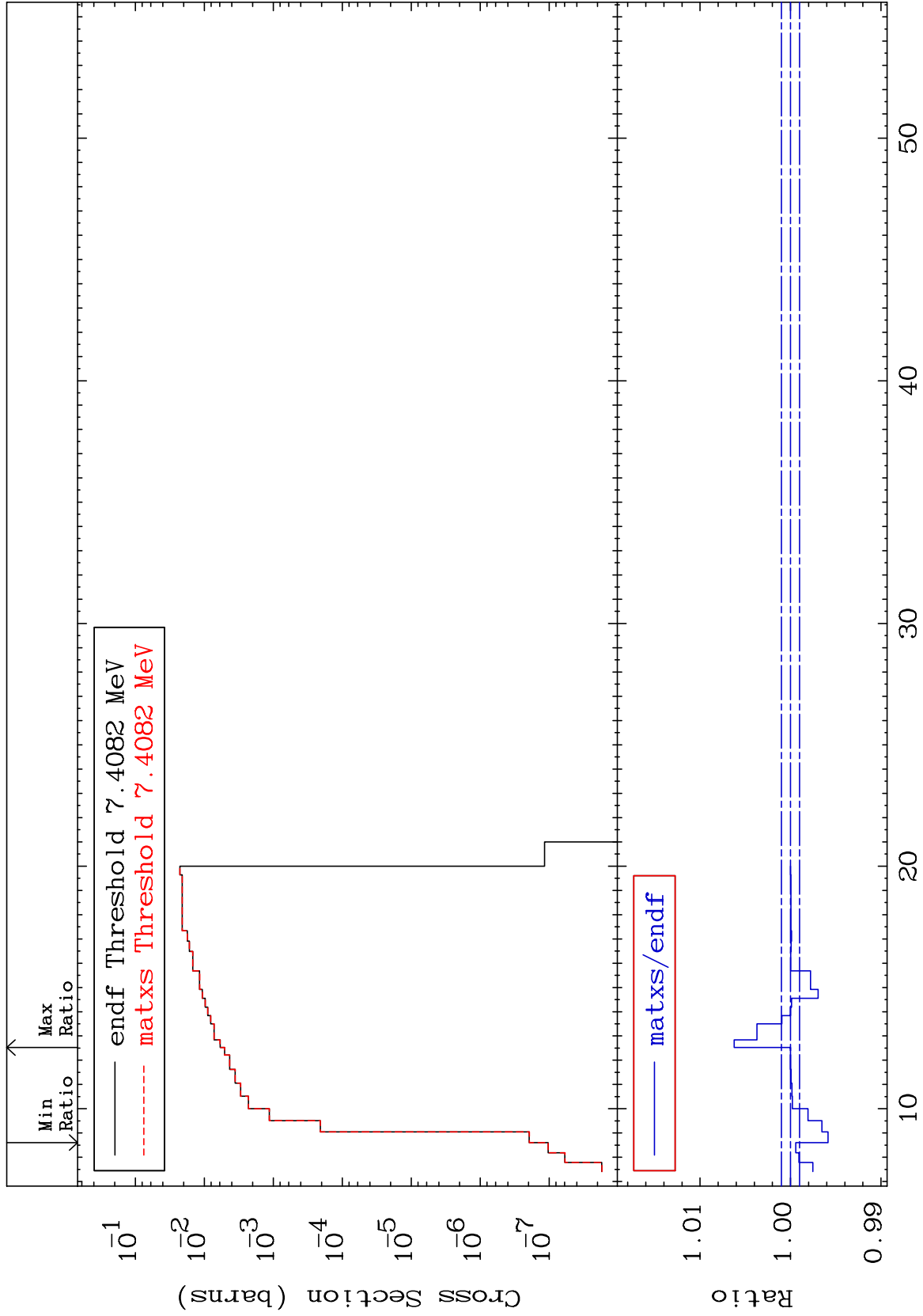
20

Incident Energy (eV)

28-Ni-60

2  
3  
4  
5

MAT 2831 (n,d) 28-Ni-60  
Cross Section -0.414 To 0.622 %



21 28-Ni-60

MAT 2831

(n,  $\alpha$ )

28-Ni-60

Cross Section

-4.446 To 0.227 %

