

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

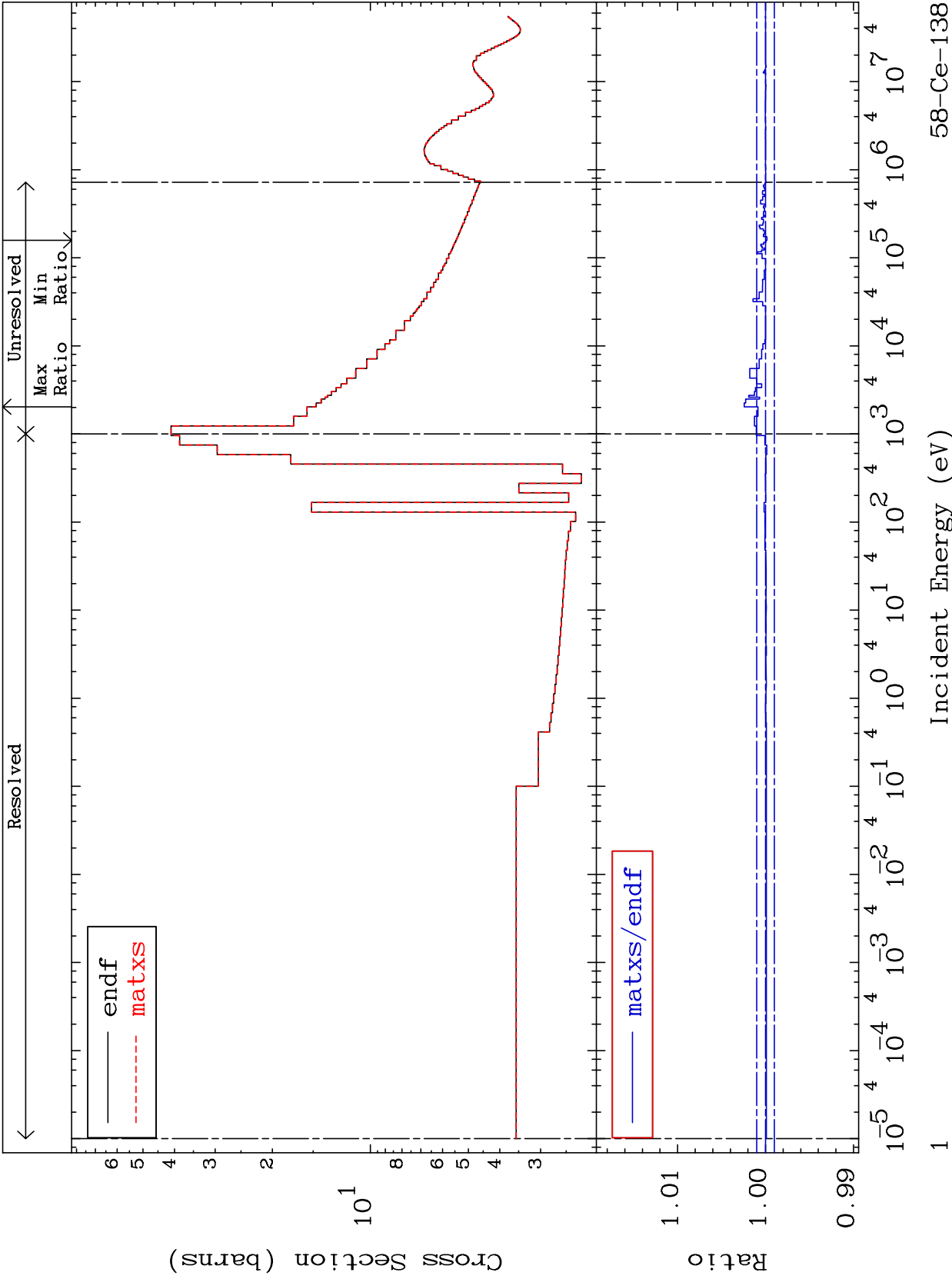
Web: home.comcast.net/~redcullen1

Press Mouse Button to Start

MAT 5831

Total
Cross Section

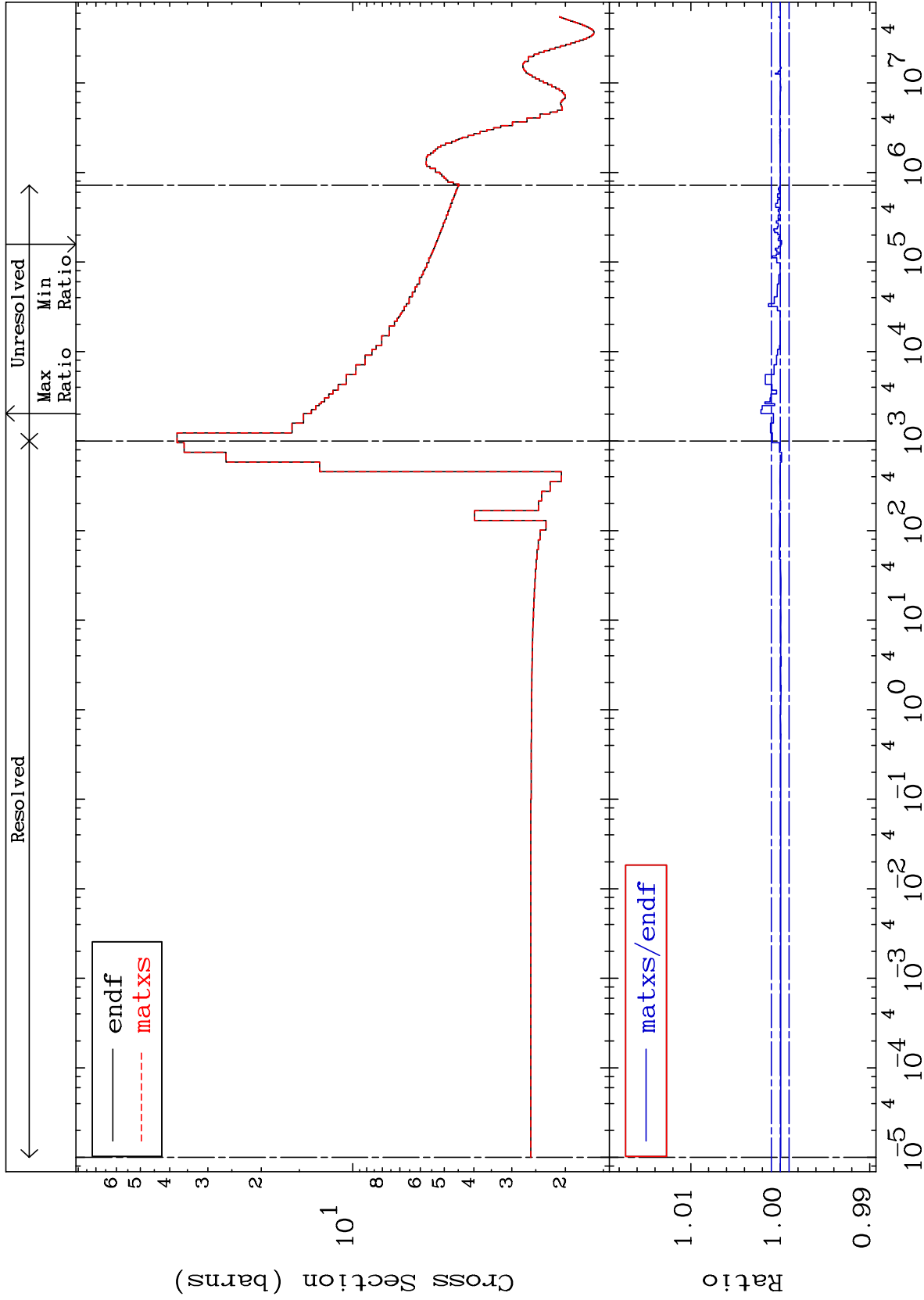
58-Ce-138
-0.016 To 0.242 %



MAT 5831

Elastic Cross Section

58-Ce-138
-0.016 To 0.216 %



2

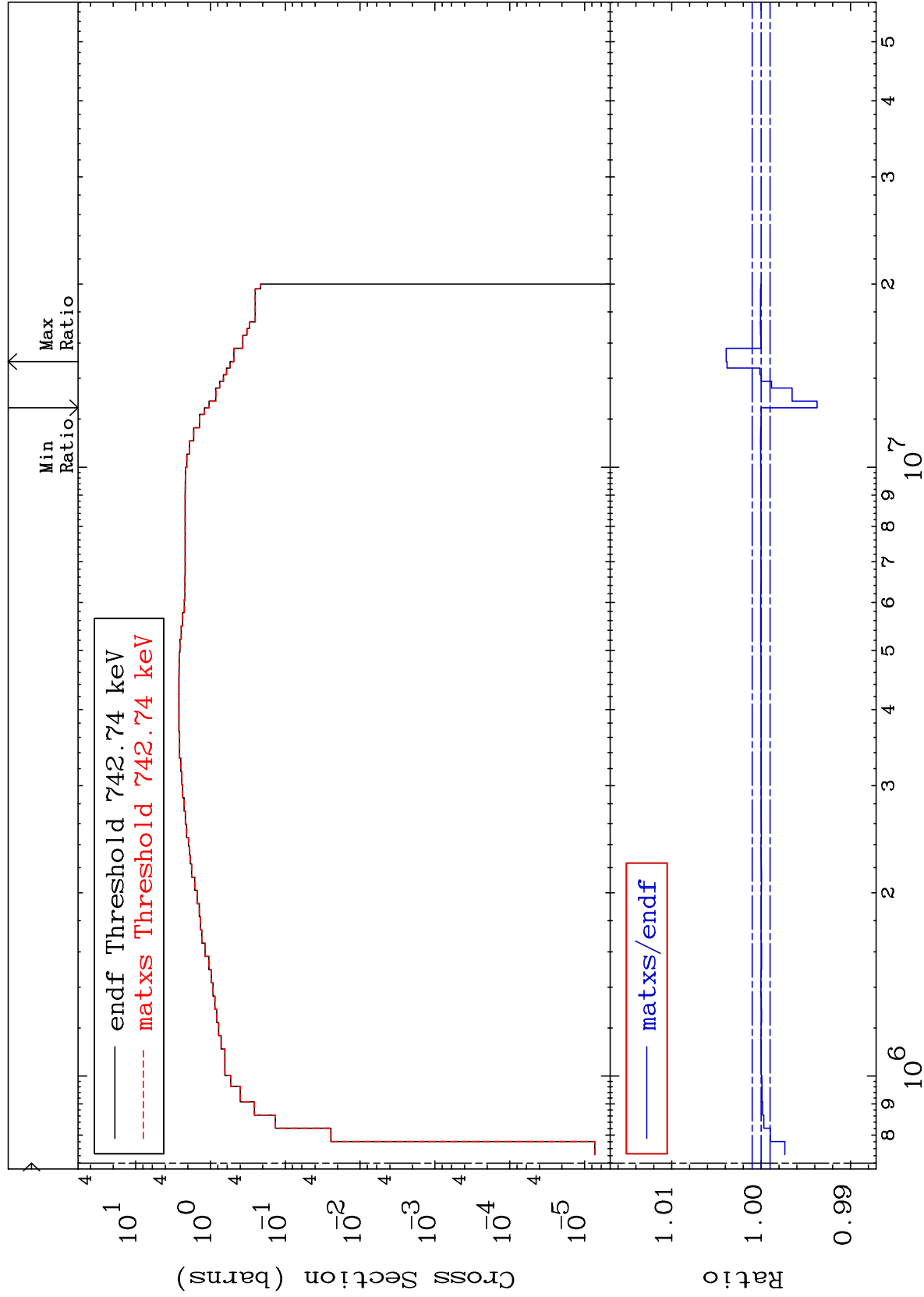
Incident Energy (eV)

58-Ce-138

MAT 5831

Inelastic
Cross Section

58-Ce-138
-0.627 To 0.390 %



3

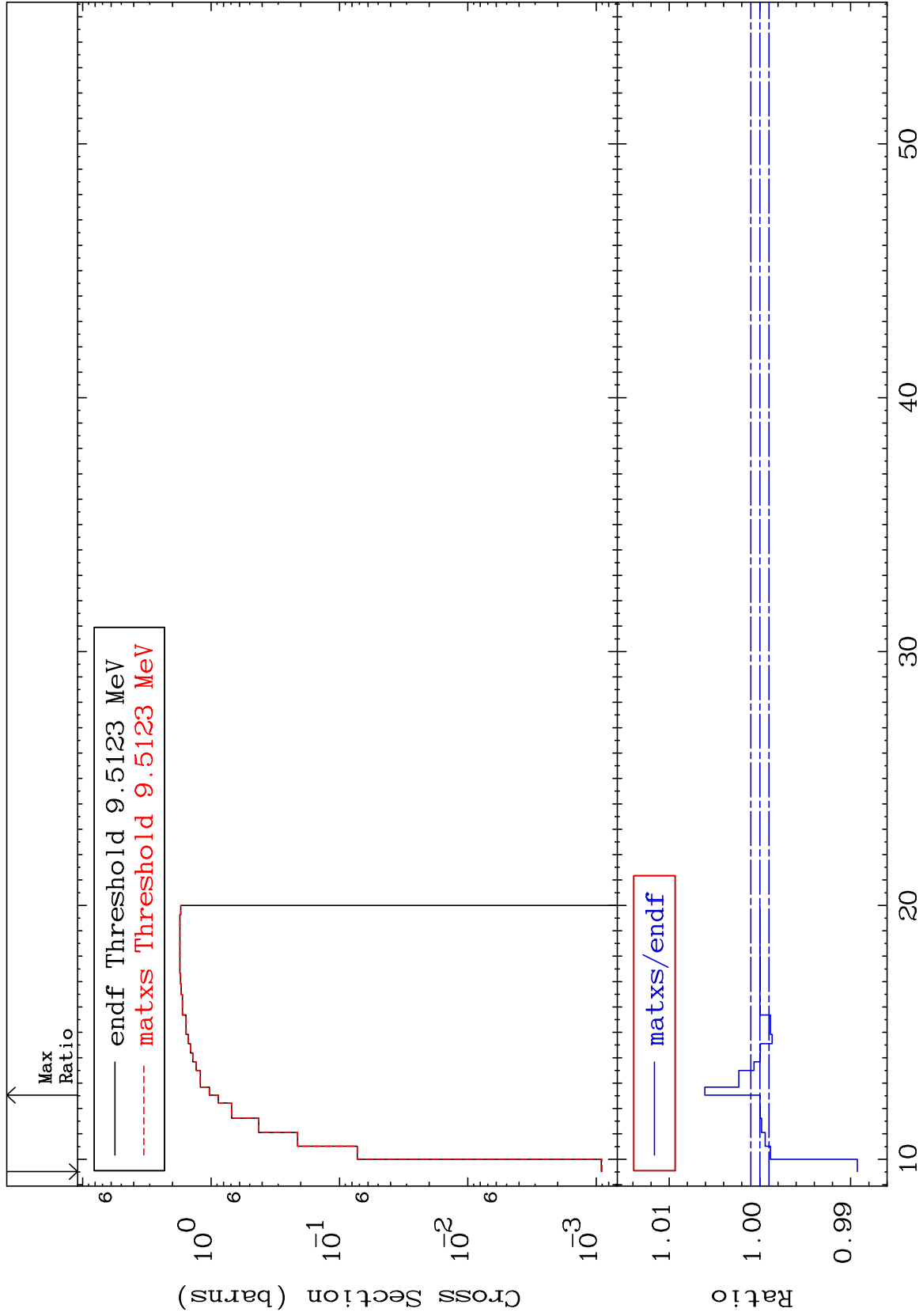
Incident Energy (eV)

58-Ce-138

MAT 5831

(n,2n)
Cross Section

58-Ce-138
-1.074 To 0.607 %



4

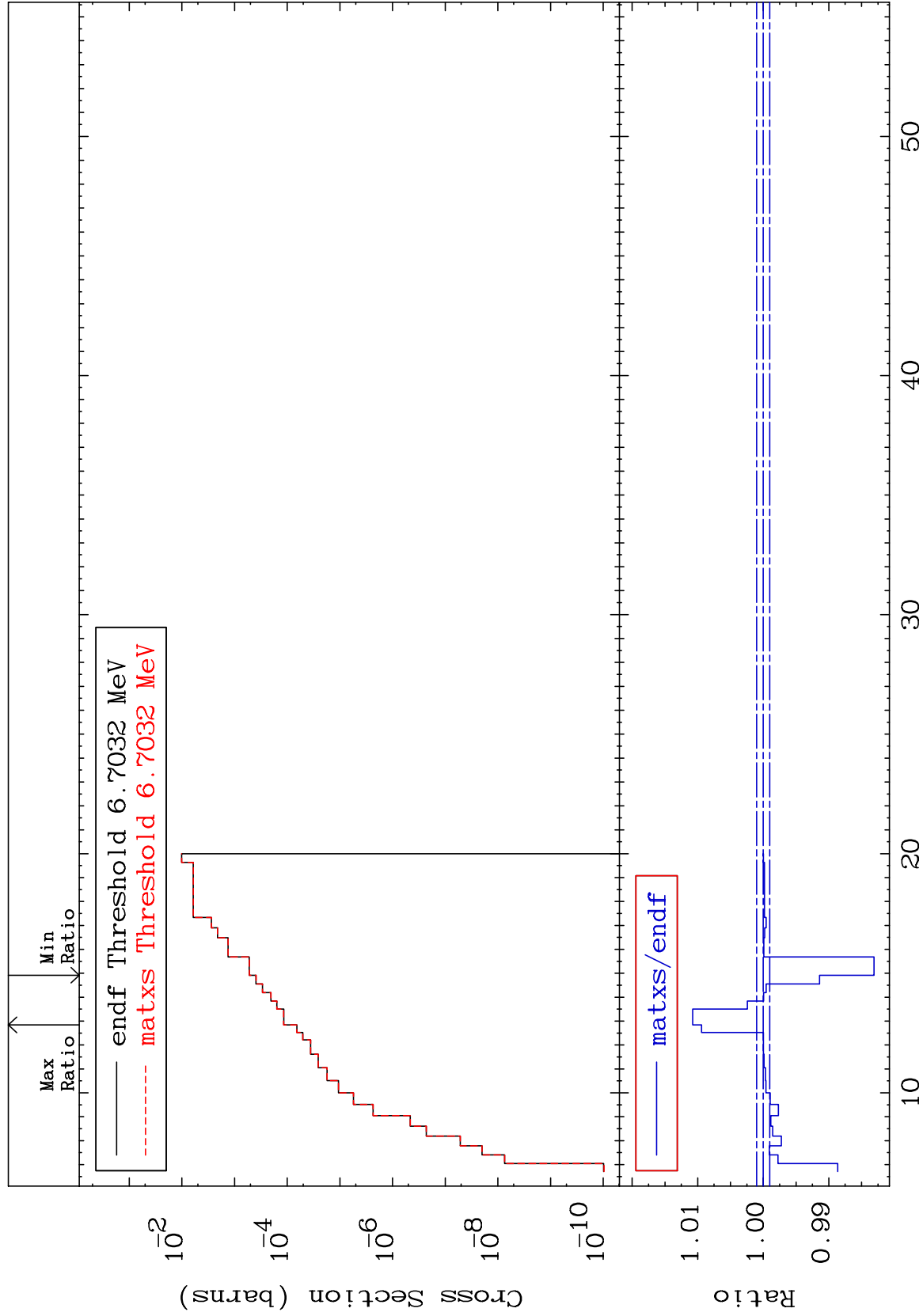
Incident Energy (MeV)

58-Ce-138

MAT 5831

(n, n') α
Cross Section

58-Ce-138
-1.690 To 1.076 %



5

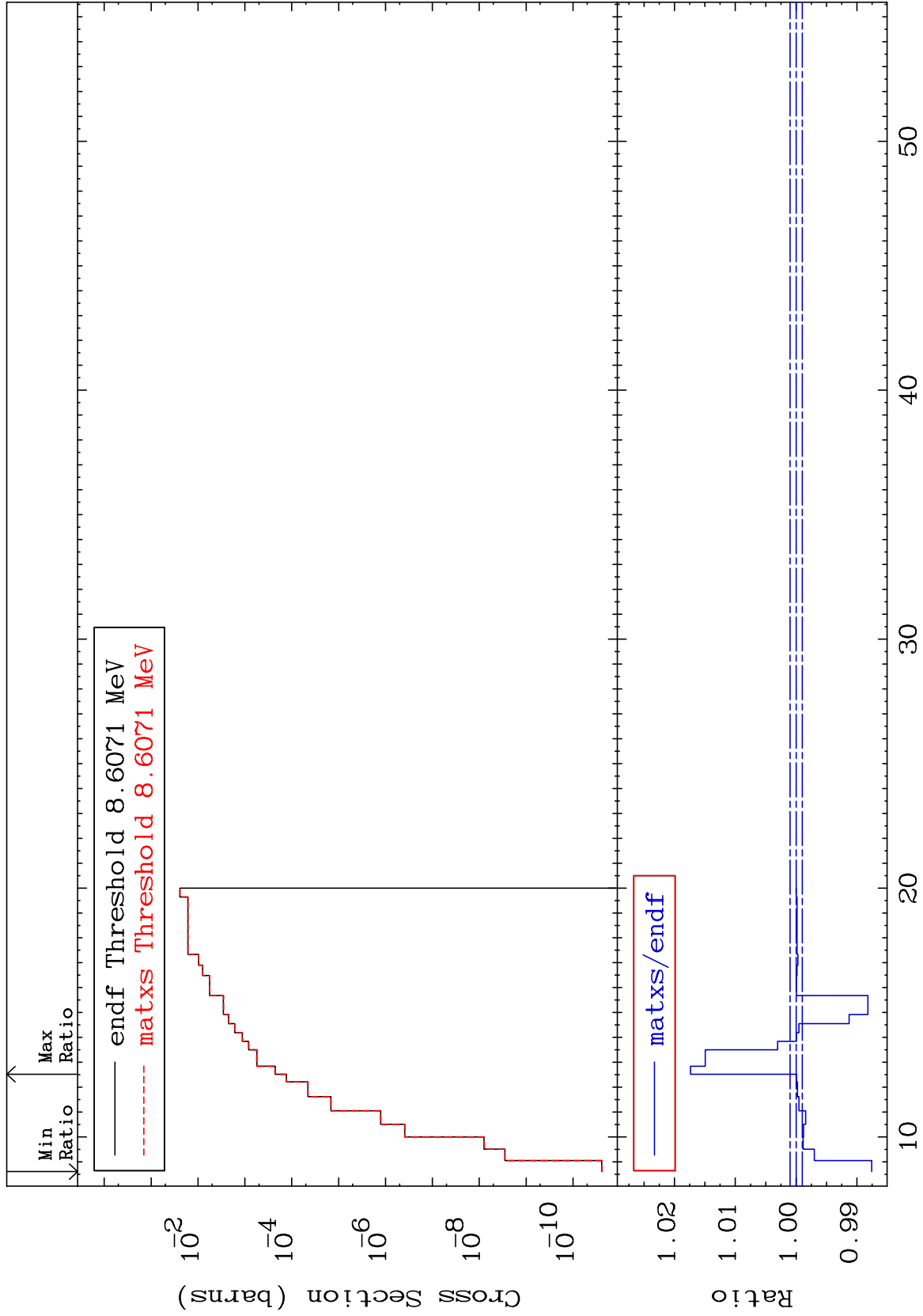
Incident Energy (MeV)

58-Ce-138

MAT 5831

(n, n') p
Cross Section

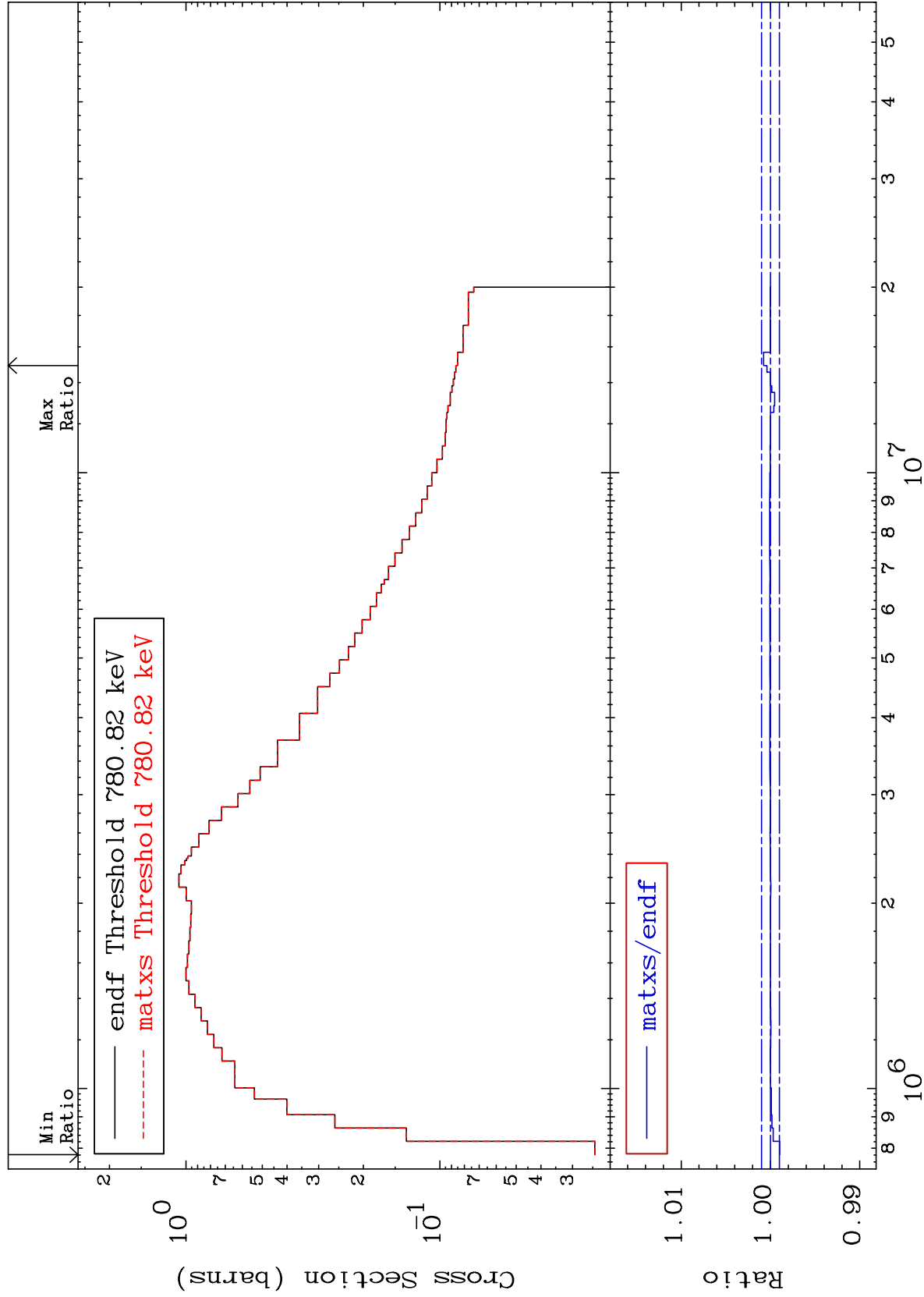
58-Ce-138
-1.242 To 1.736 %



MAT 5831

788.7 keV (n,n') Level
Cross Section

58-Ce-138
-0.103 To 0.077 %



7

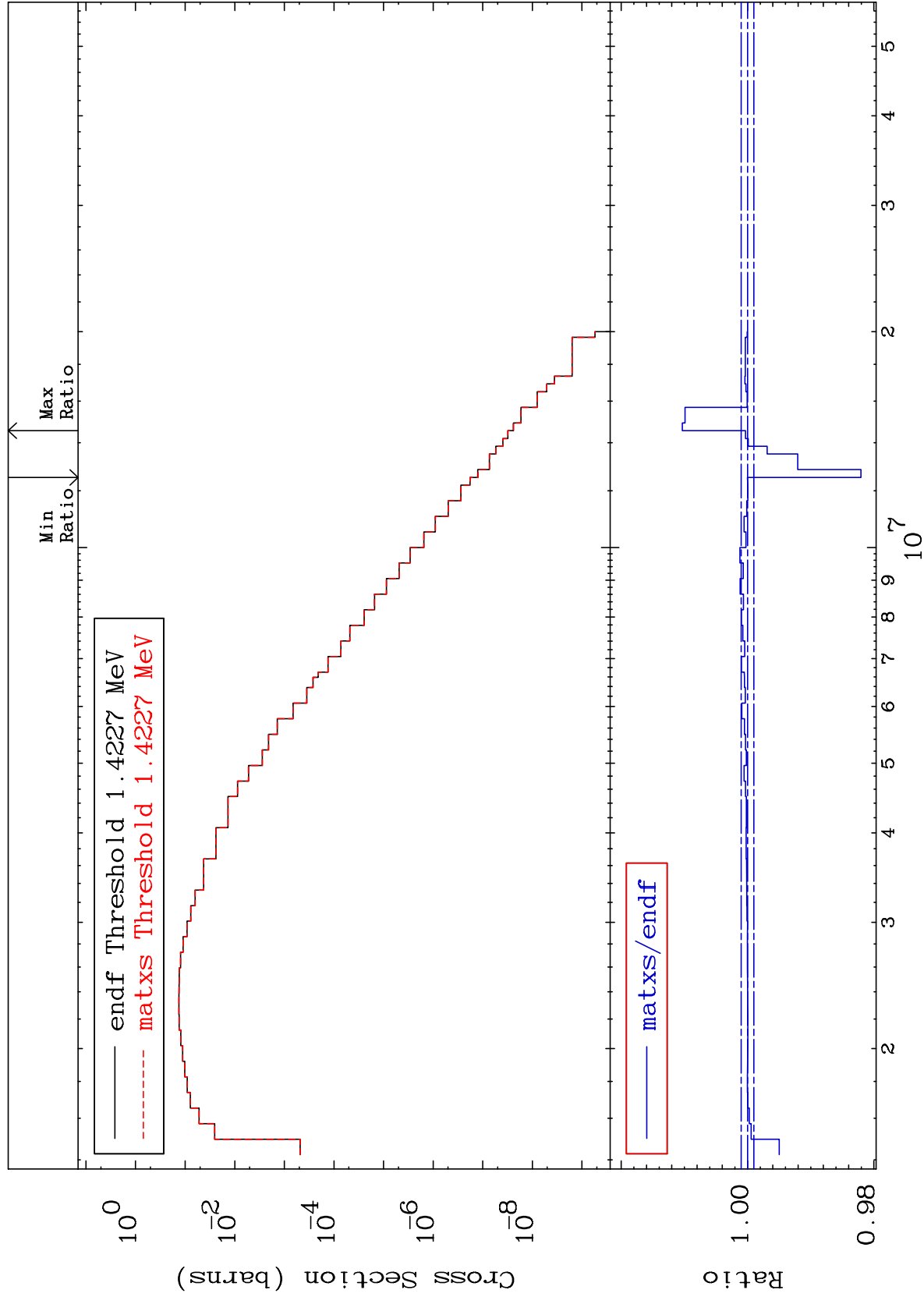
Incident Energy (eV)

58-Ce-138

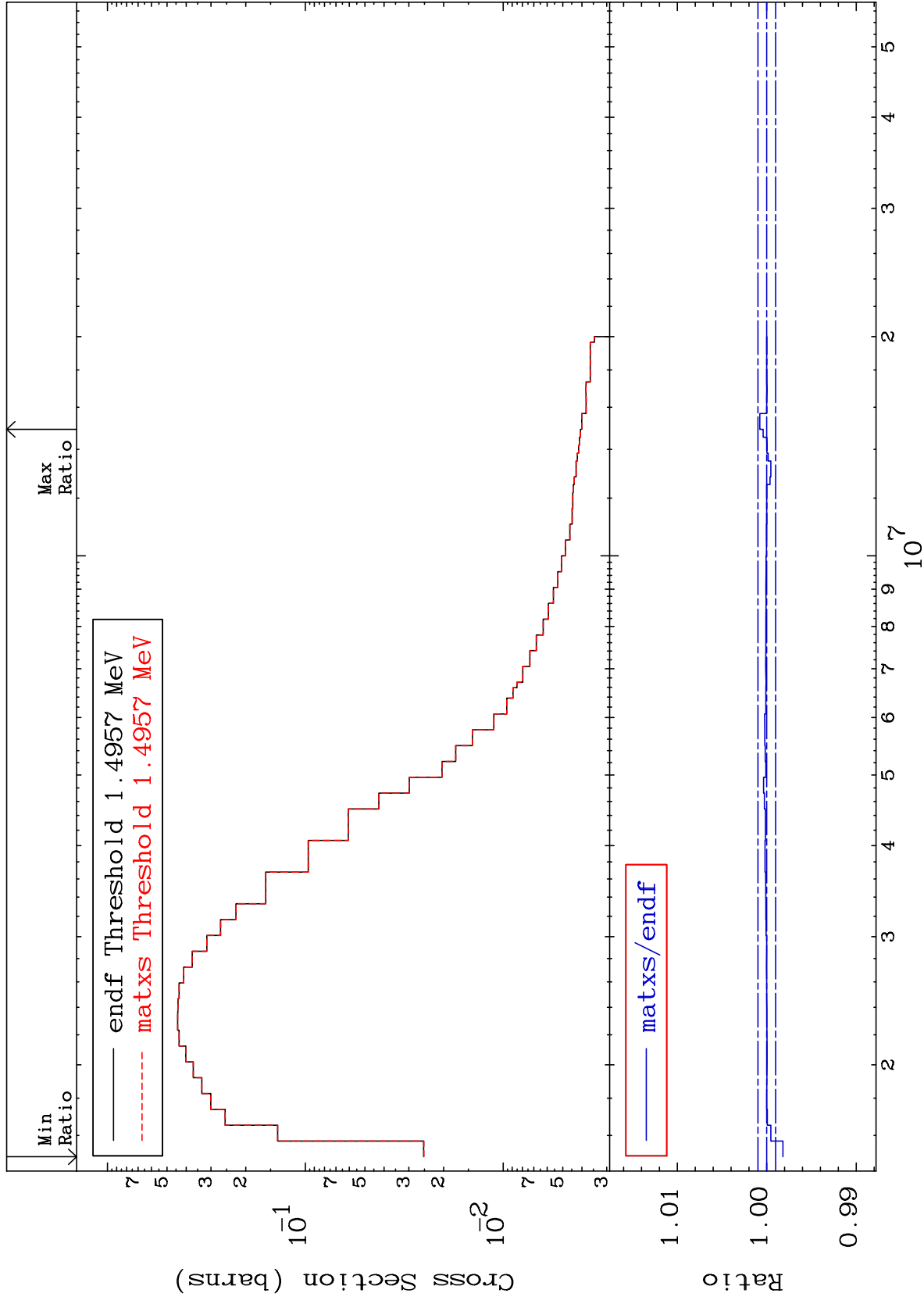
MAT 5831

1.477 MeV (n,n') Level
Cross Section

58-Ce-138
-1.794 To 1.032 %



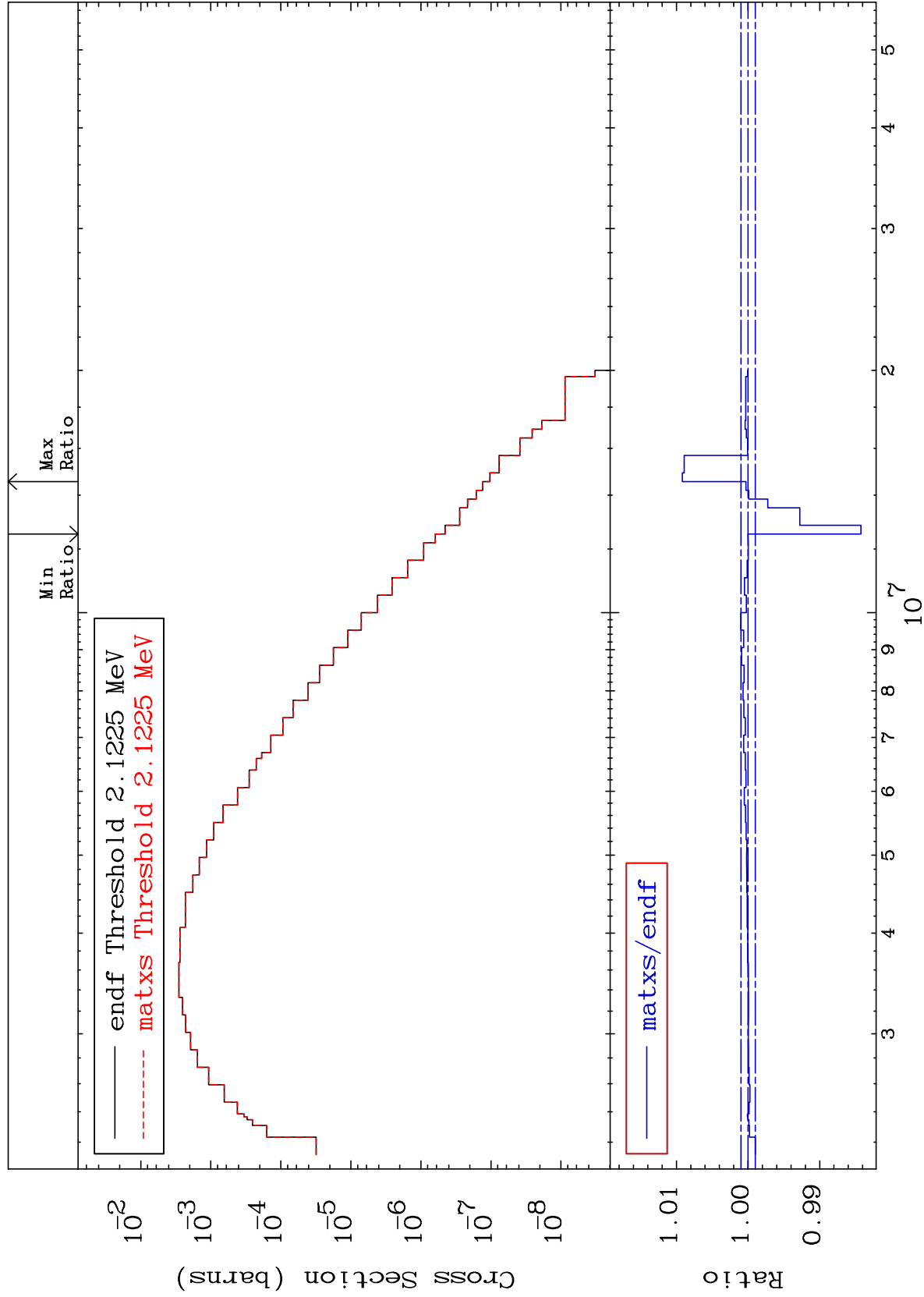
MAT 5831 1.511 MeV (n,n') Level 58-Ce-138
 Cross Section -0.180 To 0.077 %



MAT 5831

2.129 MeV (n,n') Level
Cross Section

58-Ce-138
-1.576 To 0.917 %



10

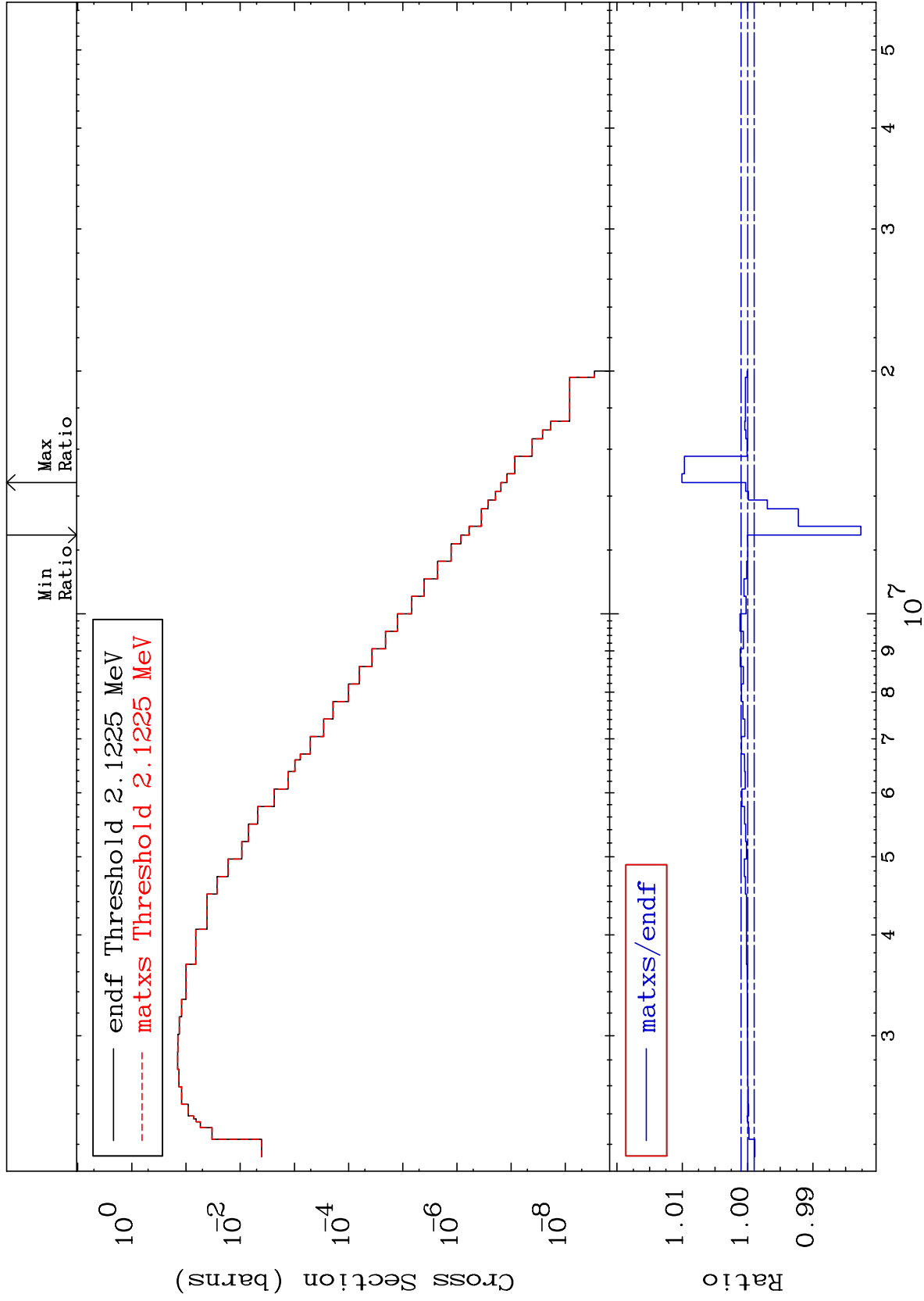
Incident Energy (eV)

58-Ce-138

MAT 5831

2.177 MeV (n,n') Level
Cross Section

58-Ce-138
-1.733 To 1.005 %



11

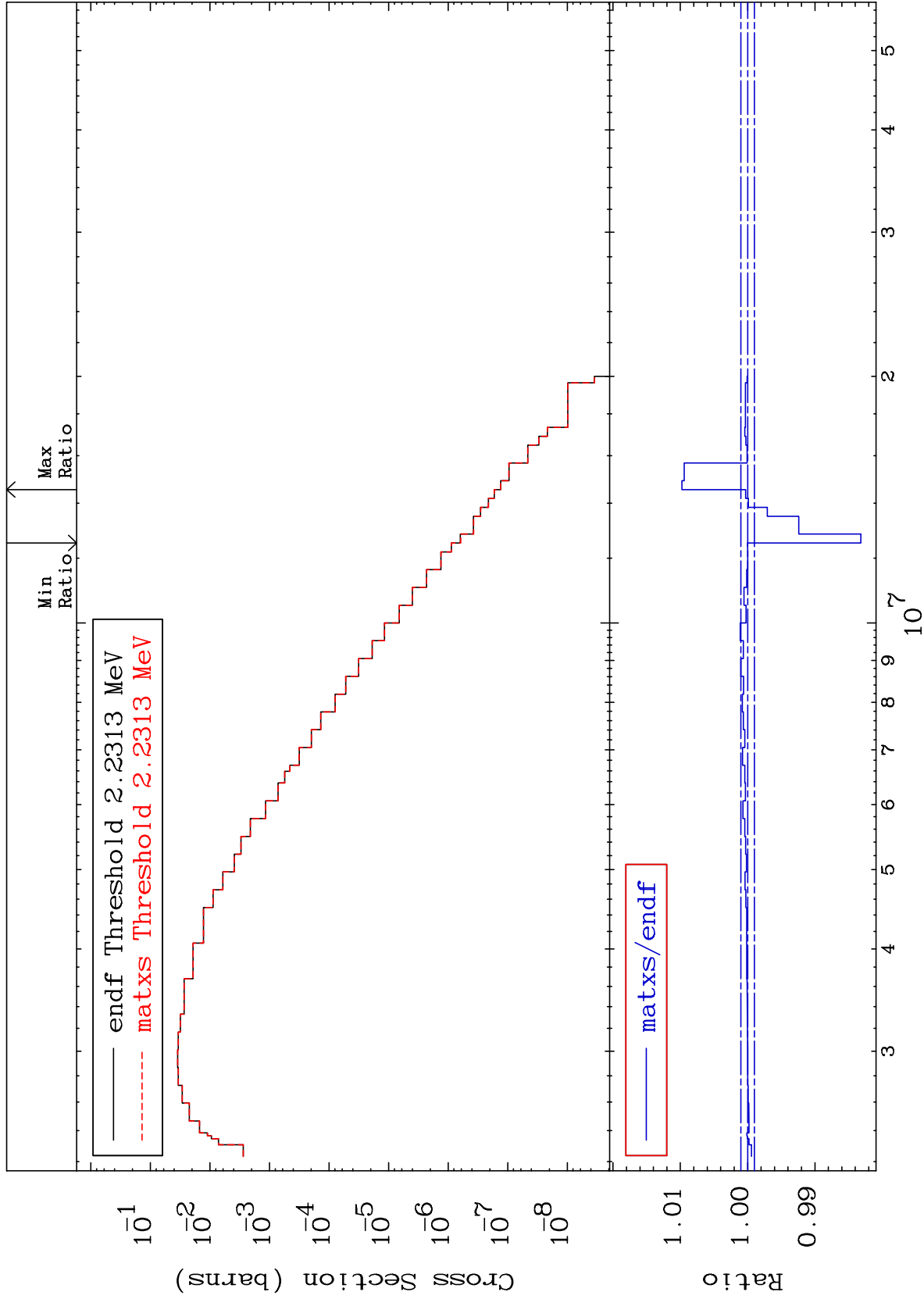
Incident Energy (eV)

58-Ce-138

MAT 5831

2.217 MeV (n,n') Level
Cross Section

58-Ce-138
-1.682 To 0.976 %



12

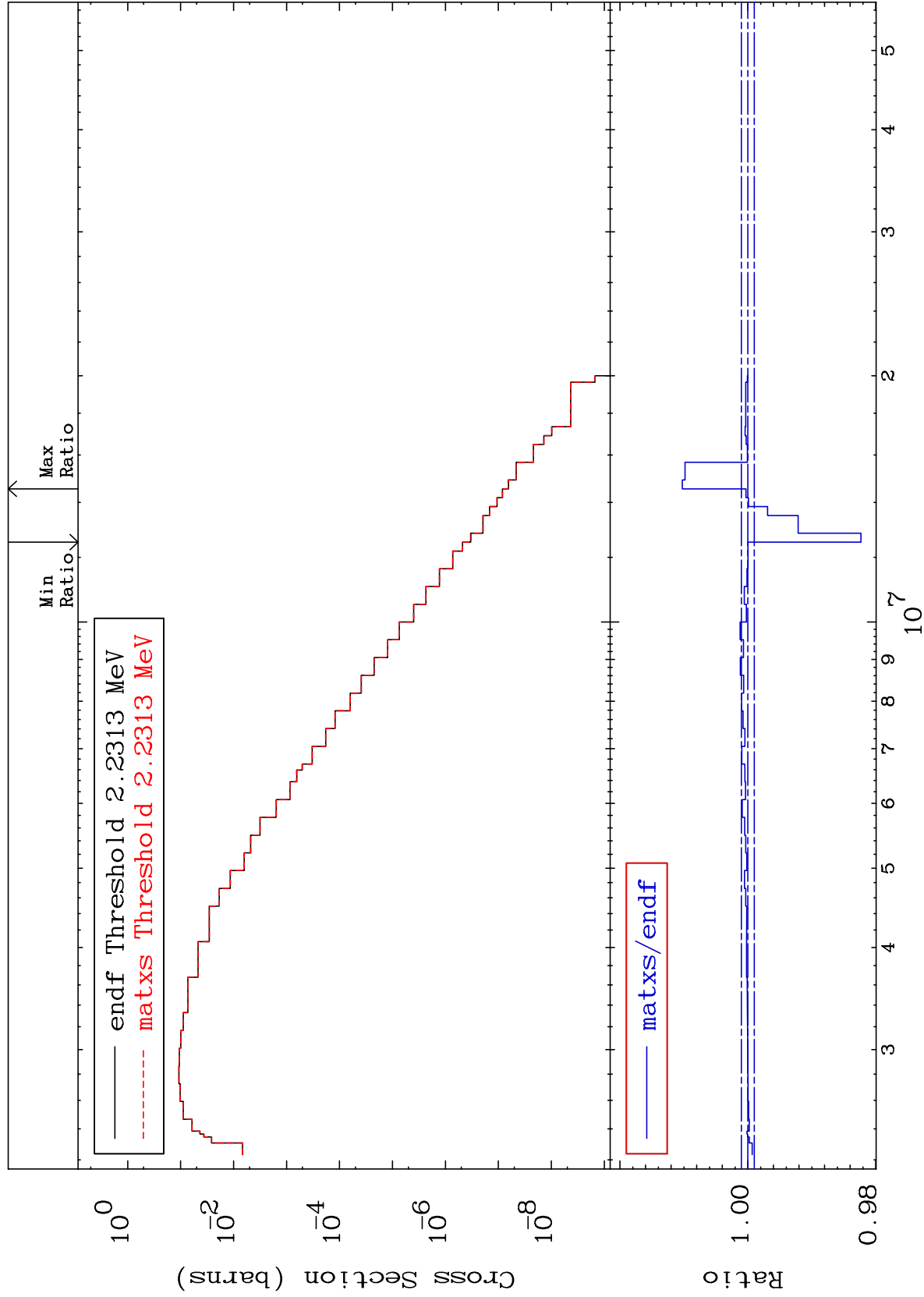
Incident Energy (eV)

58-Ce-138

MAT 5831

2.237 MeV (n,n') Level
Cross Section

58-Ce-138
-1.769 To 1.024 %



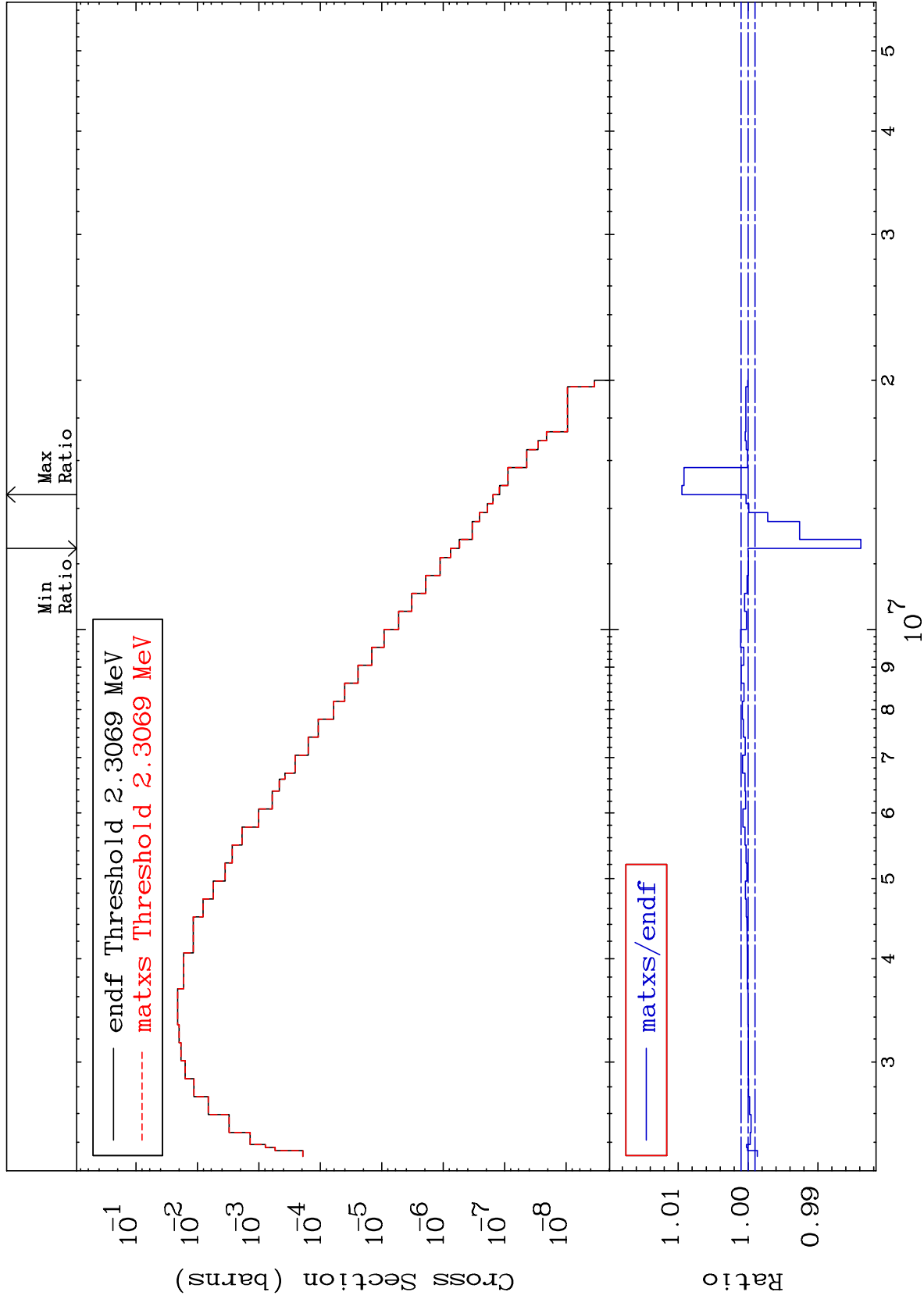
13

58-Ce-138

MAT 5831

2.294 MeV (n,n') Level
Cross Section

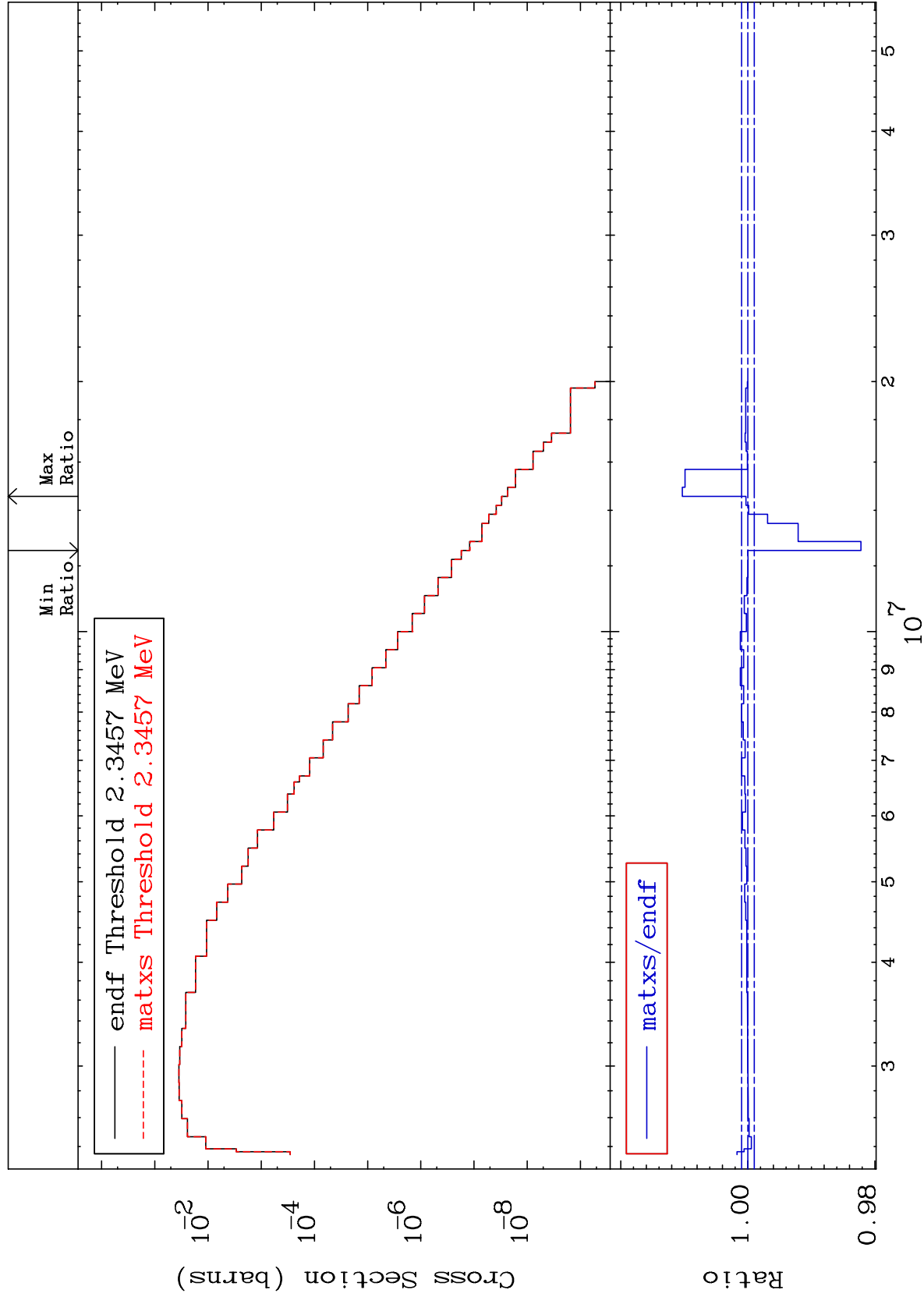
58-Ce-138
-1.615 To 0.947 %



MAT 5831

2.340 MeV (n,n') Level
Cross Section

58-Ce-138
-1.780 To 1.031 %



15

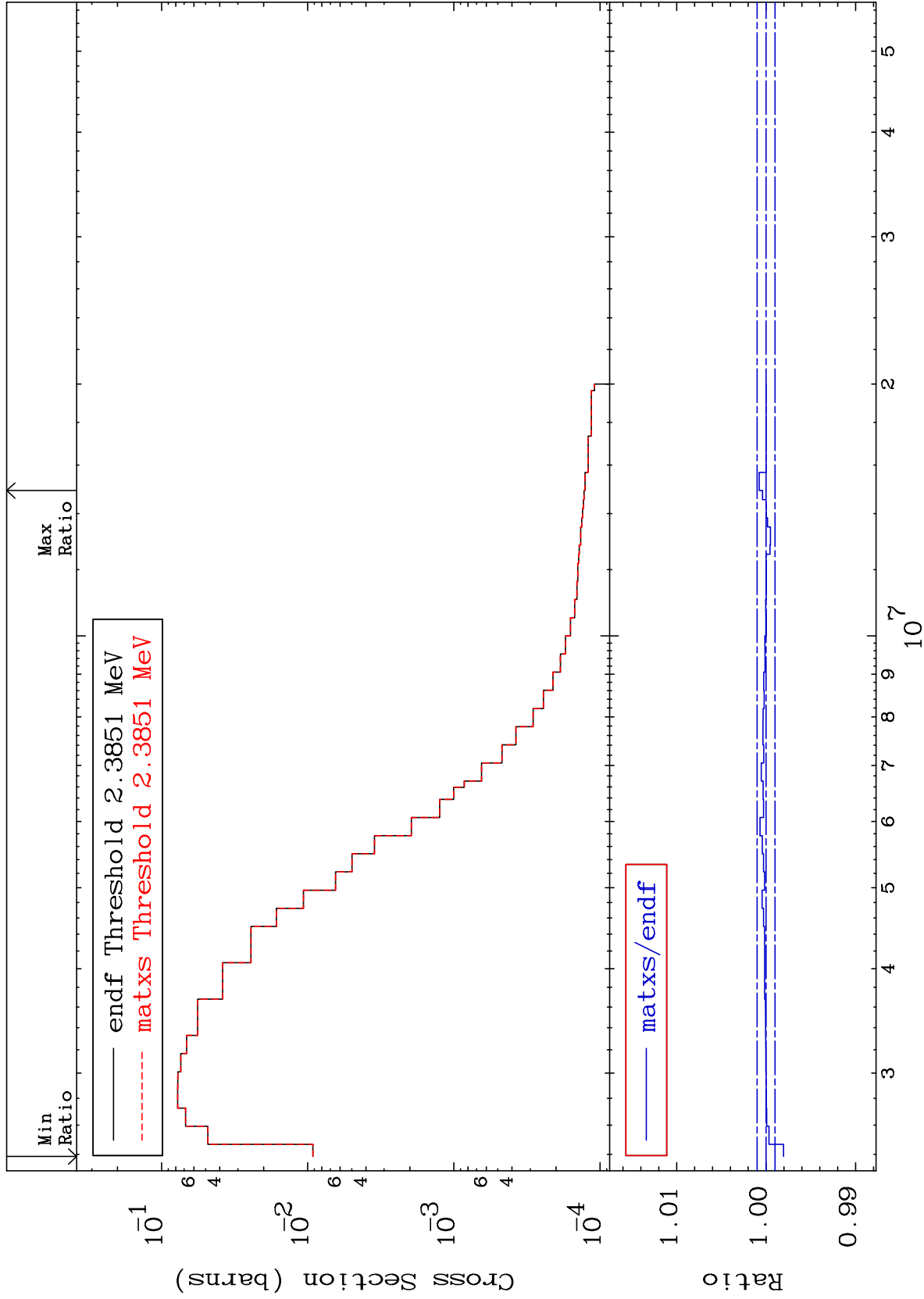
Incident Energy (eV)

58-Ce-138

MAT 5831

2.394 MeV (n,n') Level
Cross Section

58-Ce-138
-0.195 To 0.078 %



16

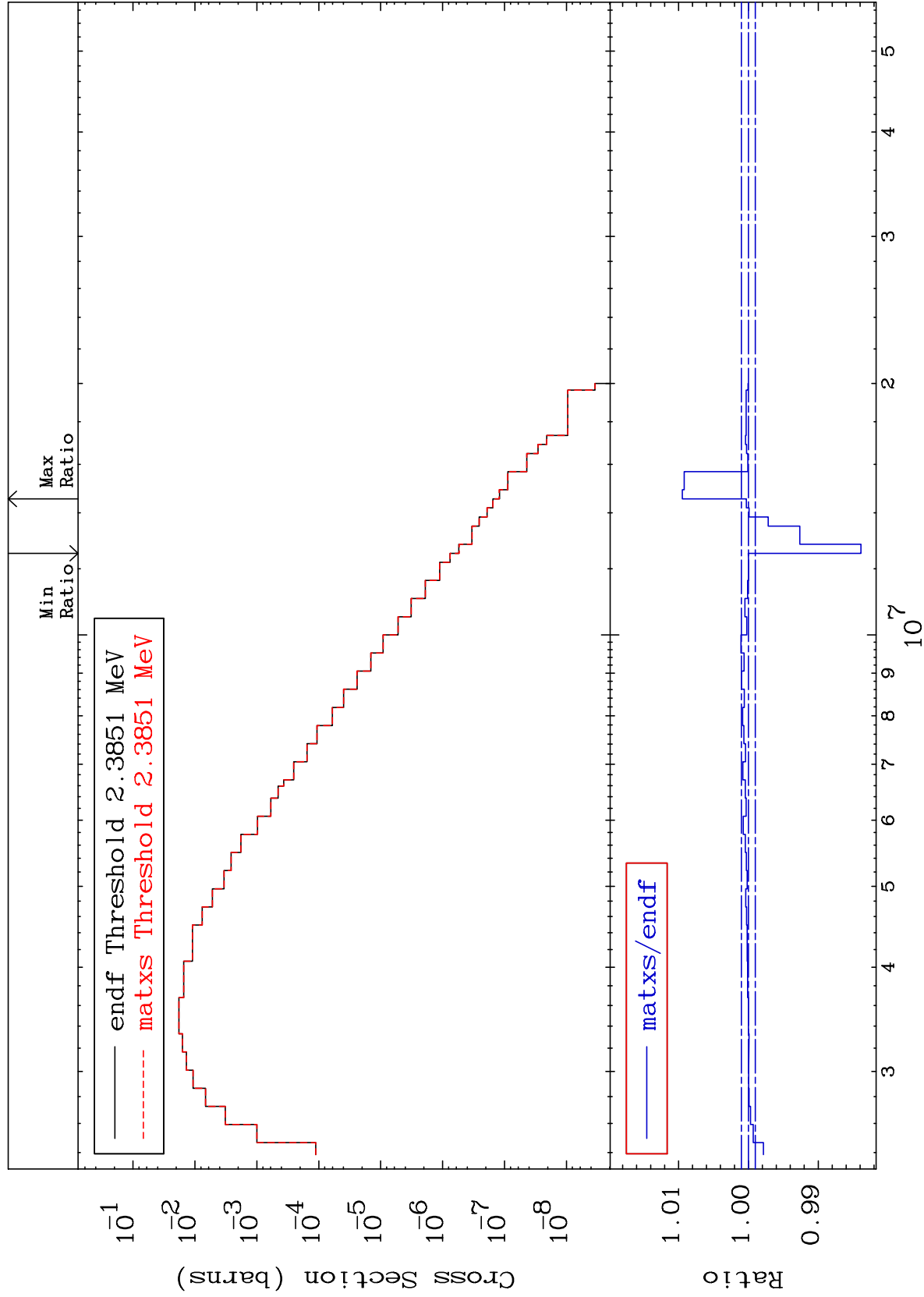
Incident Energy (eV)

58-Ce-138

MAT 5831

2.396 MeV (n,n') Level
Cross Section

58-Ce-138
-1.611 To 0.946 %



17

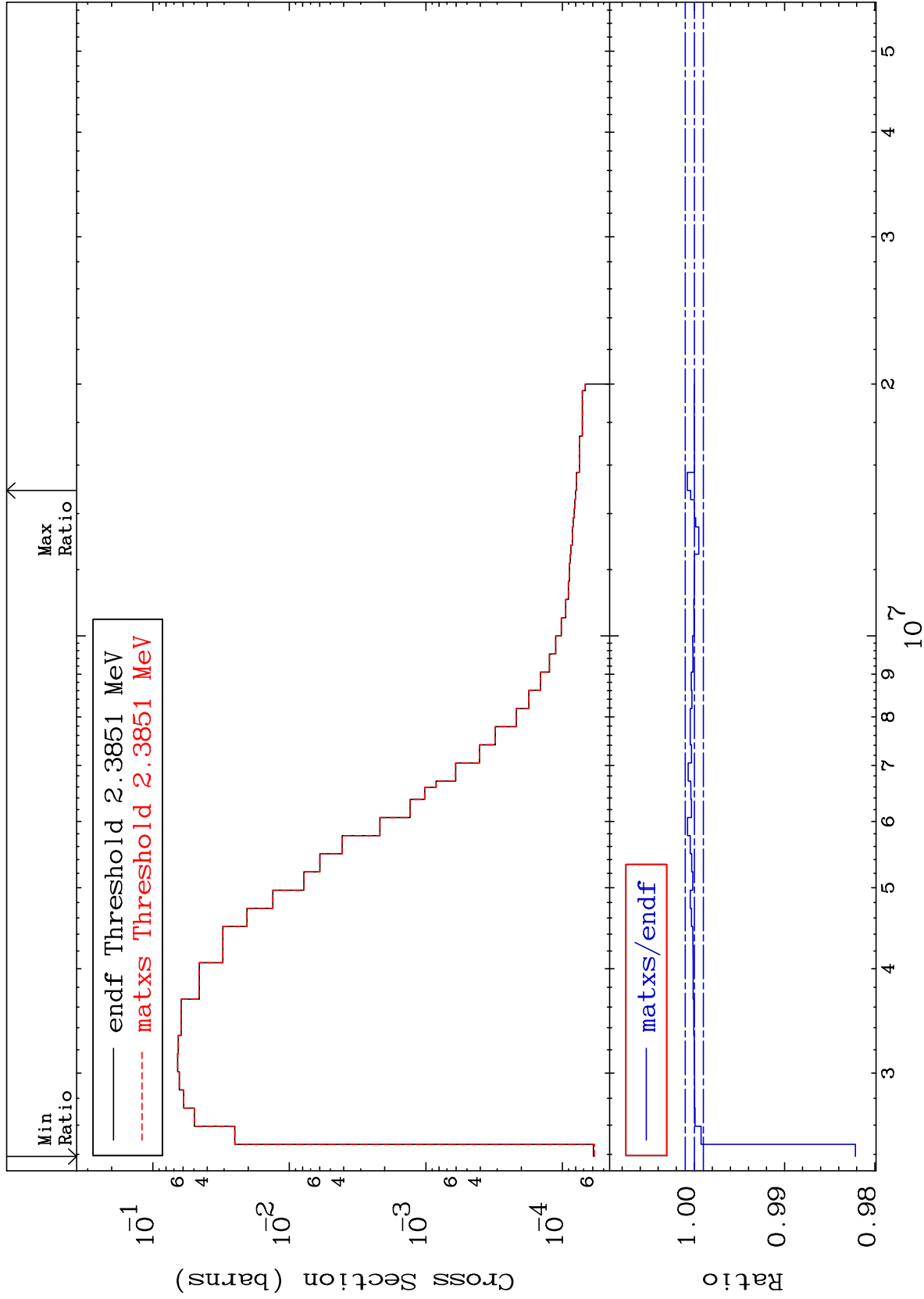
Incident Energy (eV)

58-Ce-138

MAT 5831

2.444 MeV (n,n') Level
Cross Section

58-Ce-138
-1.786 To 0.078 %



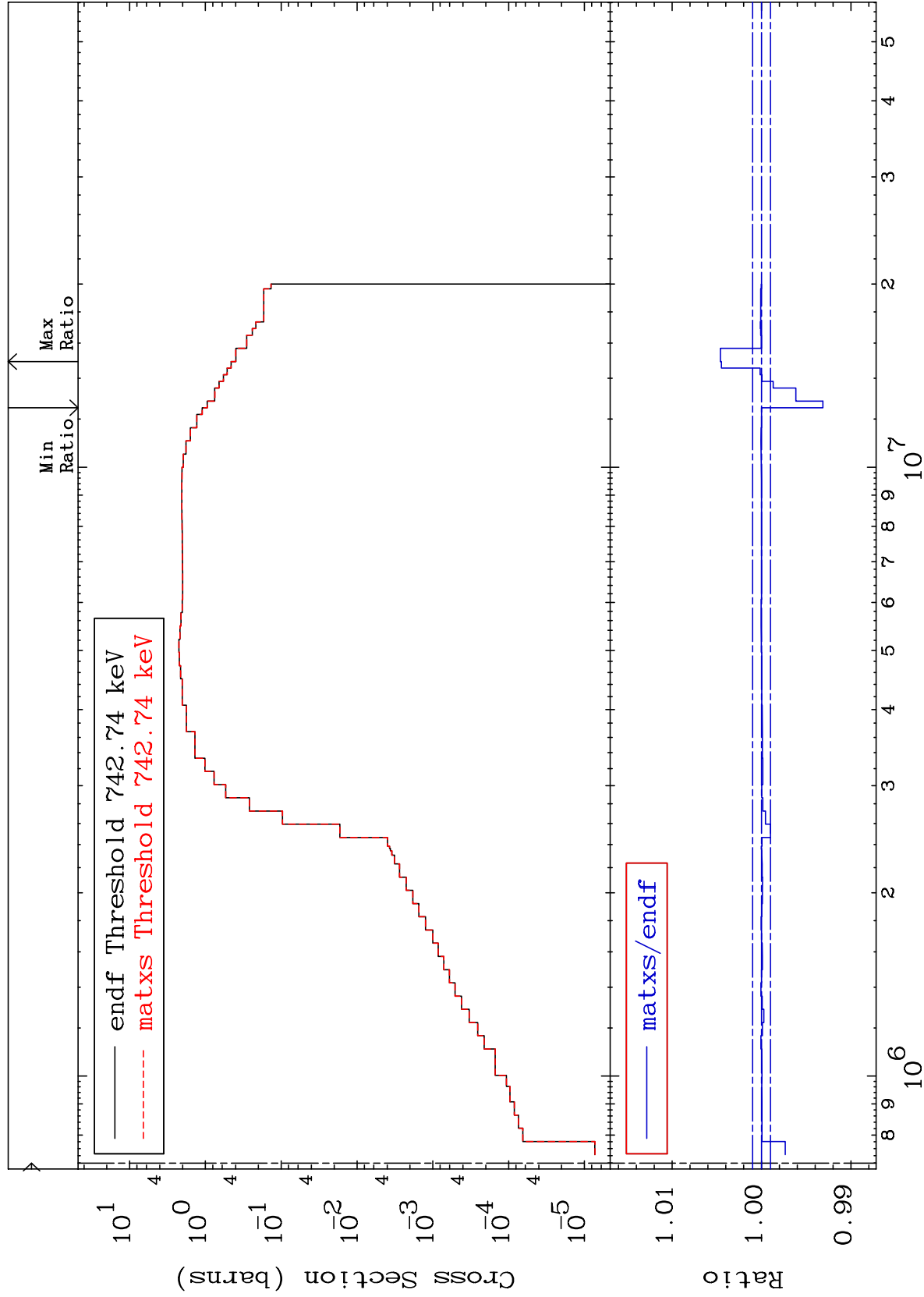
18

58-Ce-138

MAT 5831

(n,n') Continuum
Cross Section

58-Ce-138
-0.688 To 0.461 %



19

Incident Energy (eV)

58-Ce-138

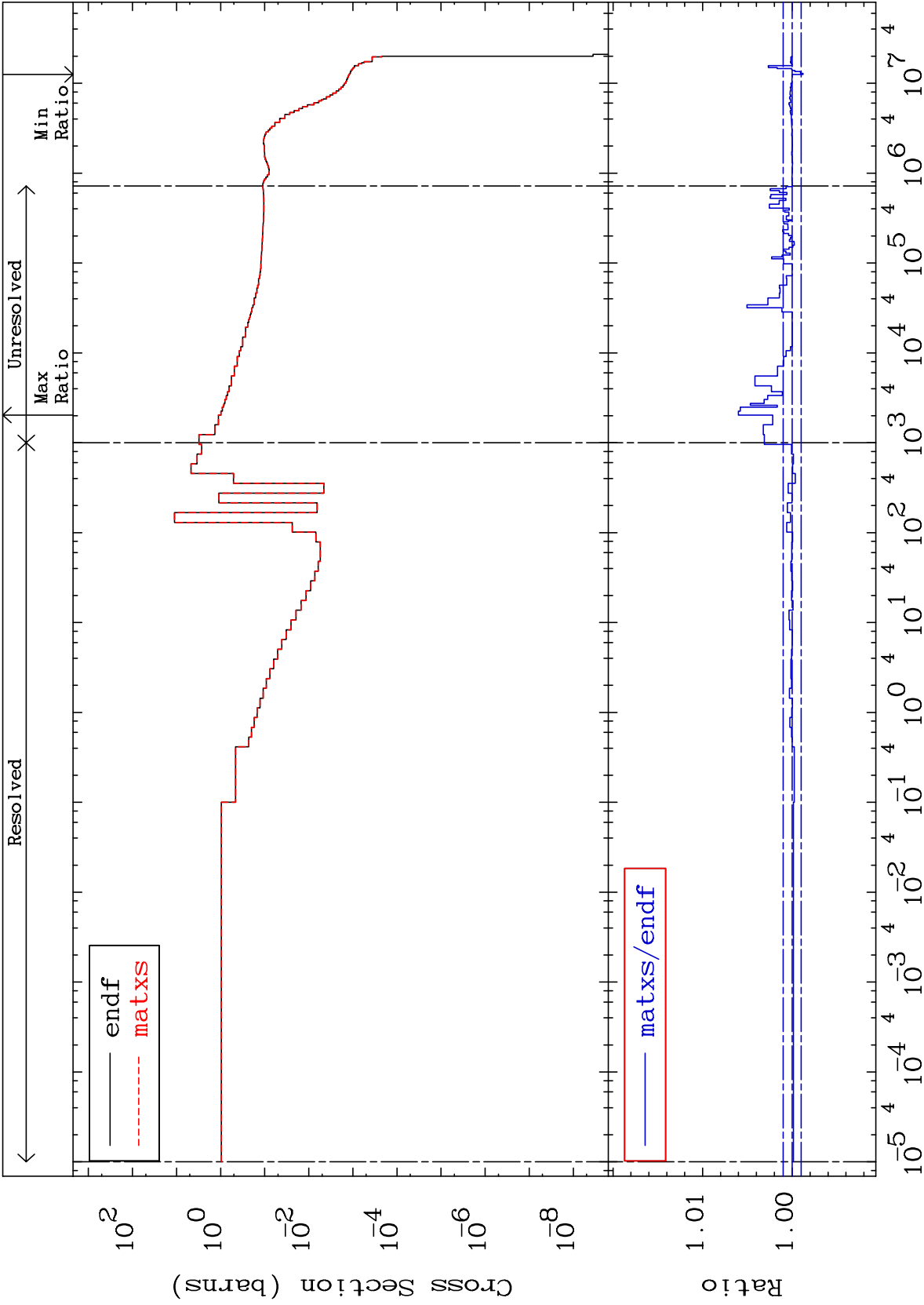
MAT 5831

(n, γ)

58-Ce-138

Cross Section

-0.120 To 0.600 %



20

Incident Energy (eV)

58-Ce-138

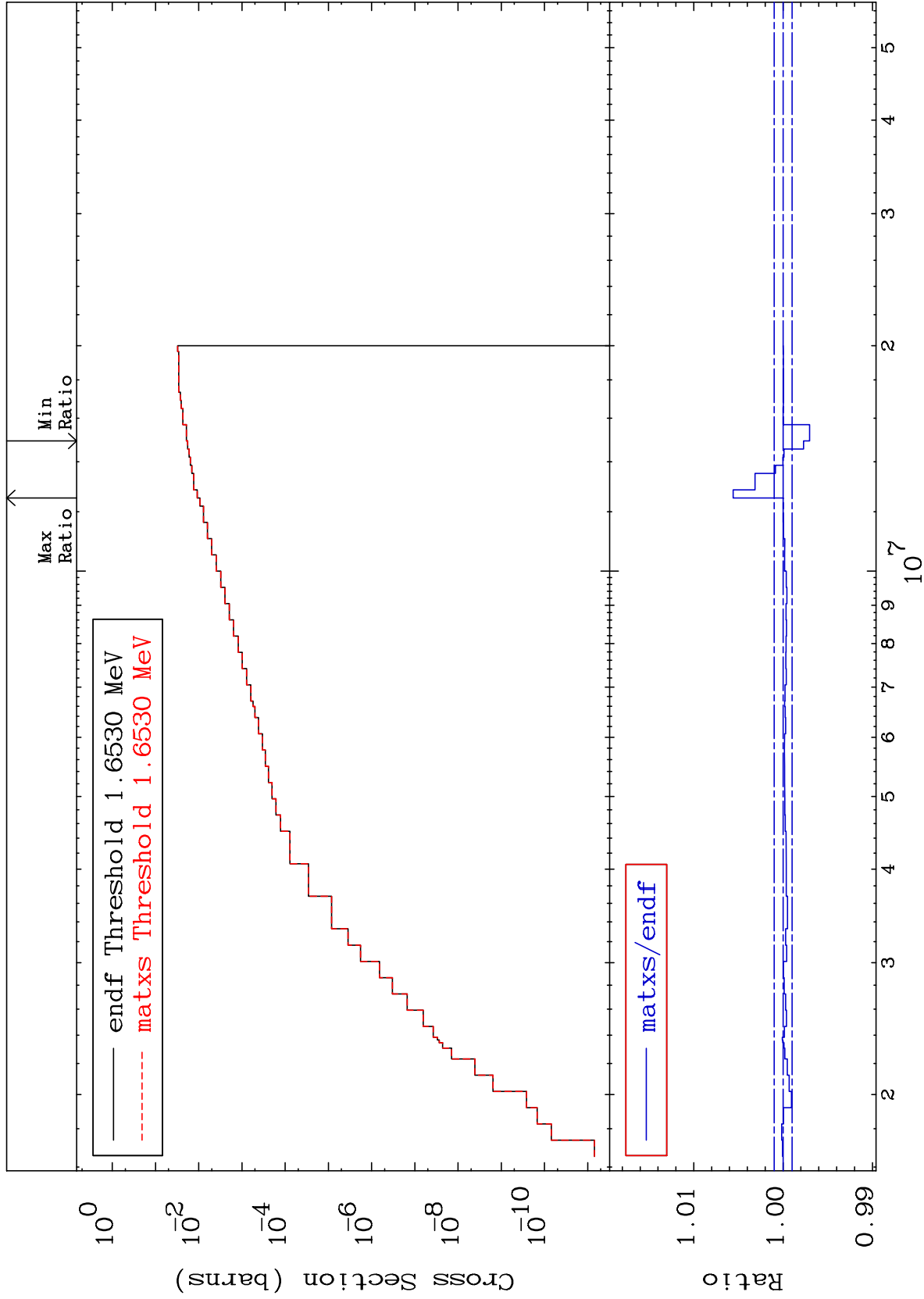
MAT 5831

(n,p)

58-Ce-138

Cross Section

-0.298 To 0.559 %



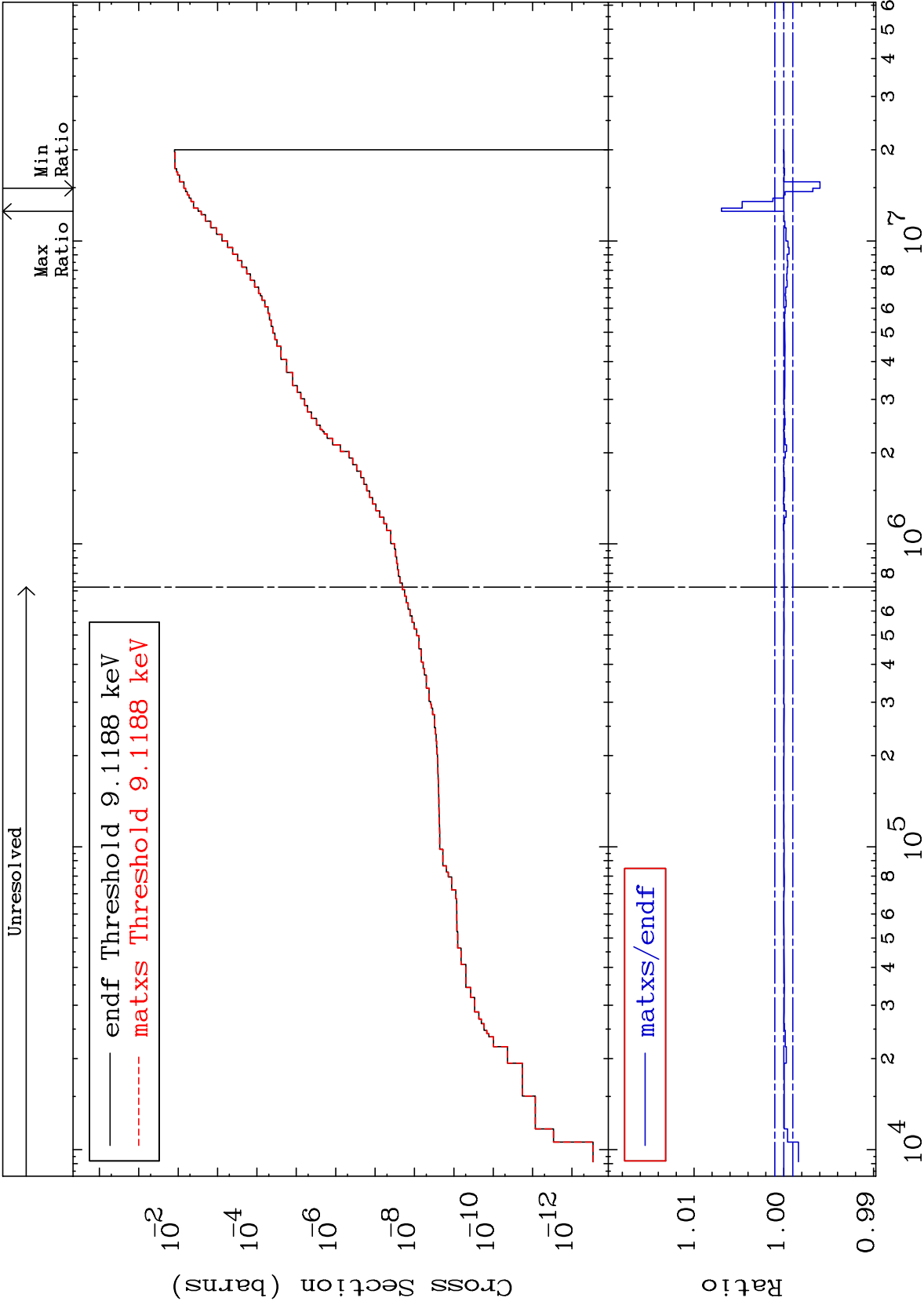
MAT 5831

(n, α)

58-Ce-138

Cross Section

-0.403 To 0.695 %



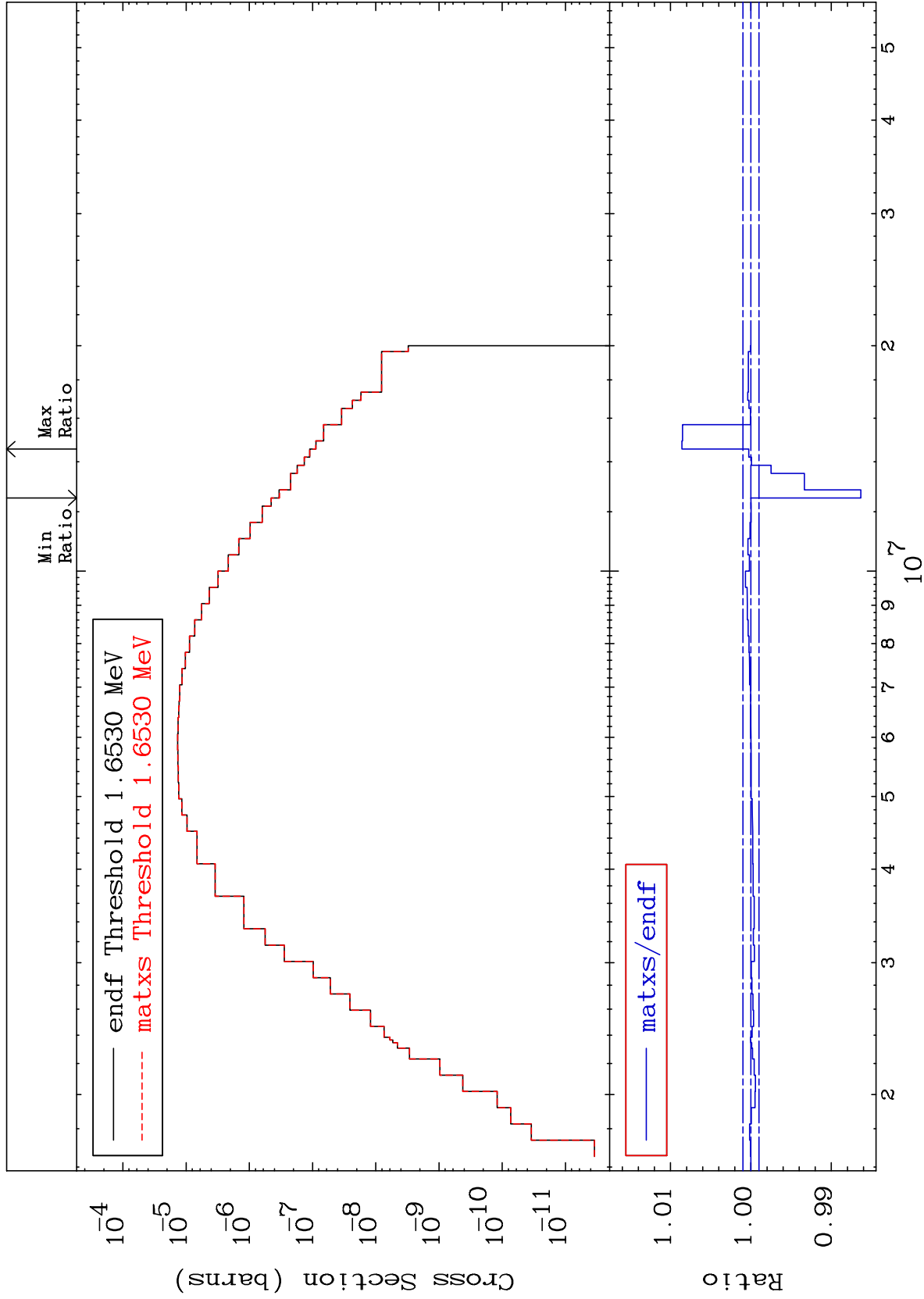
22

58-Ce-138

MAT 5831

(n, p') Ground
Cross Section

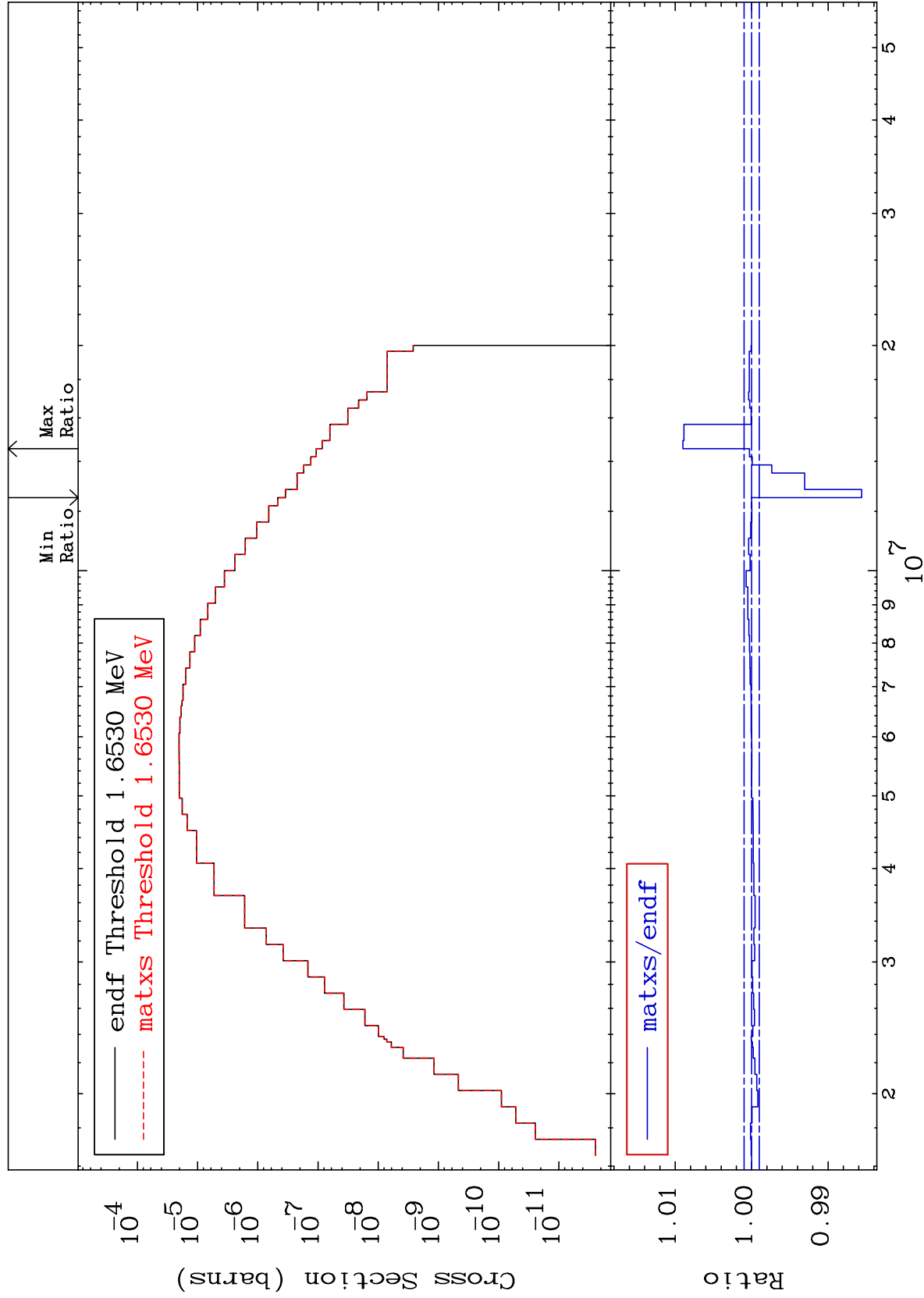
58-Ce-138
-1.367 To 0.858 %



MAT 5831

72.57 keV (n,p') Level
Cross Section

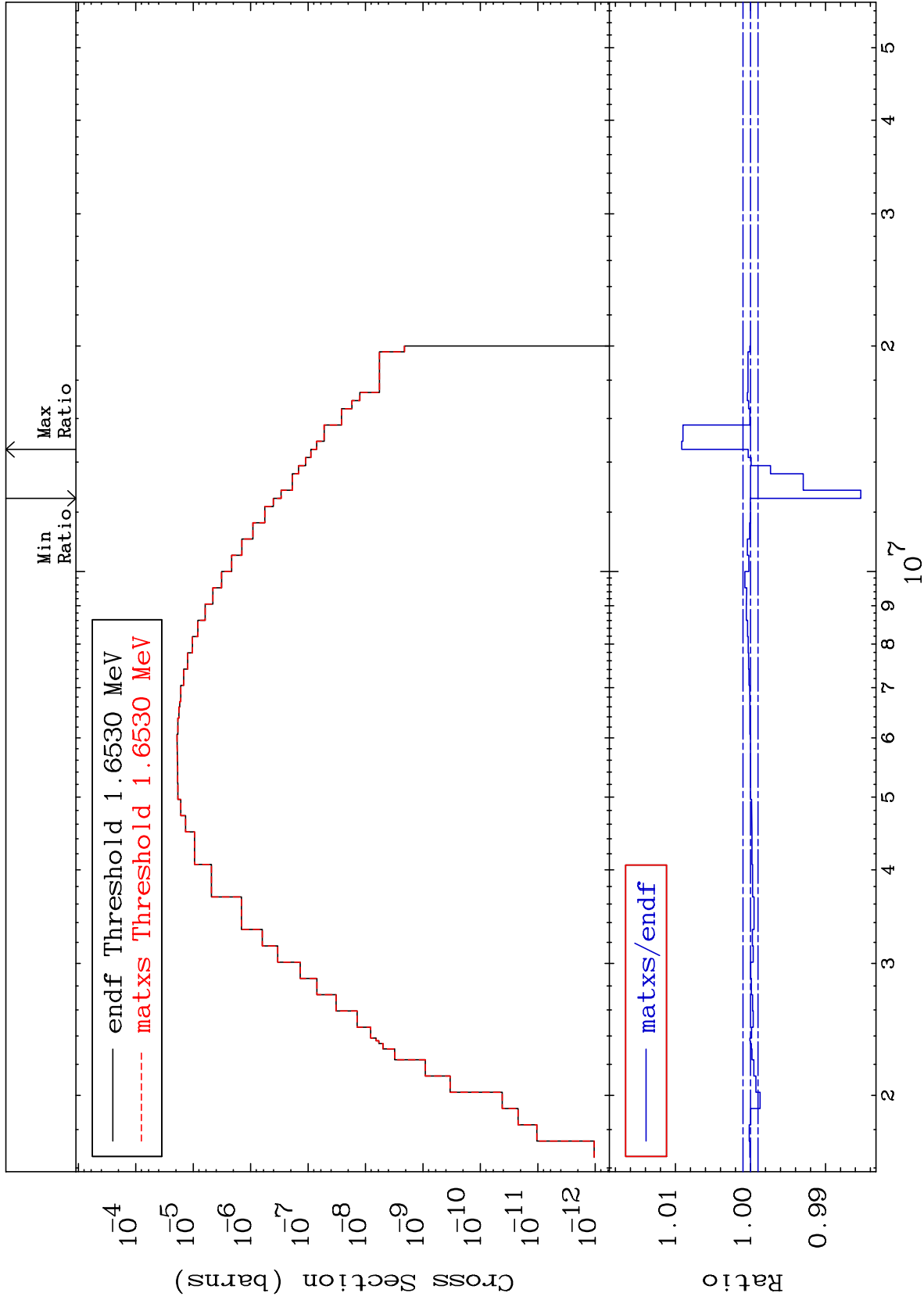
58-Ce-138
-1.439 To 0.899 %



MAT 5831

116.2 keV (n,p') Level
Cross Section

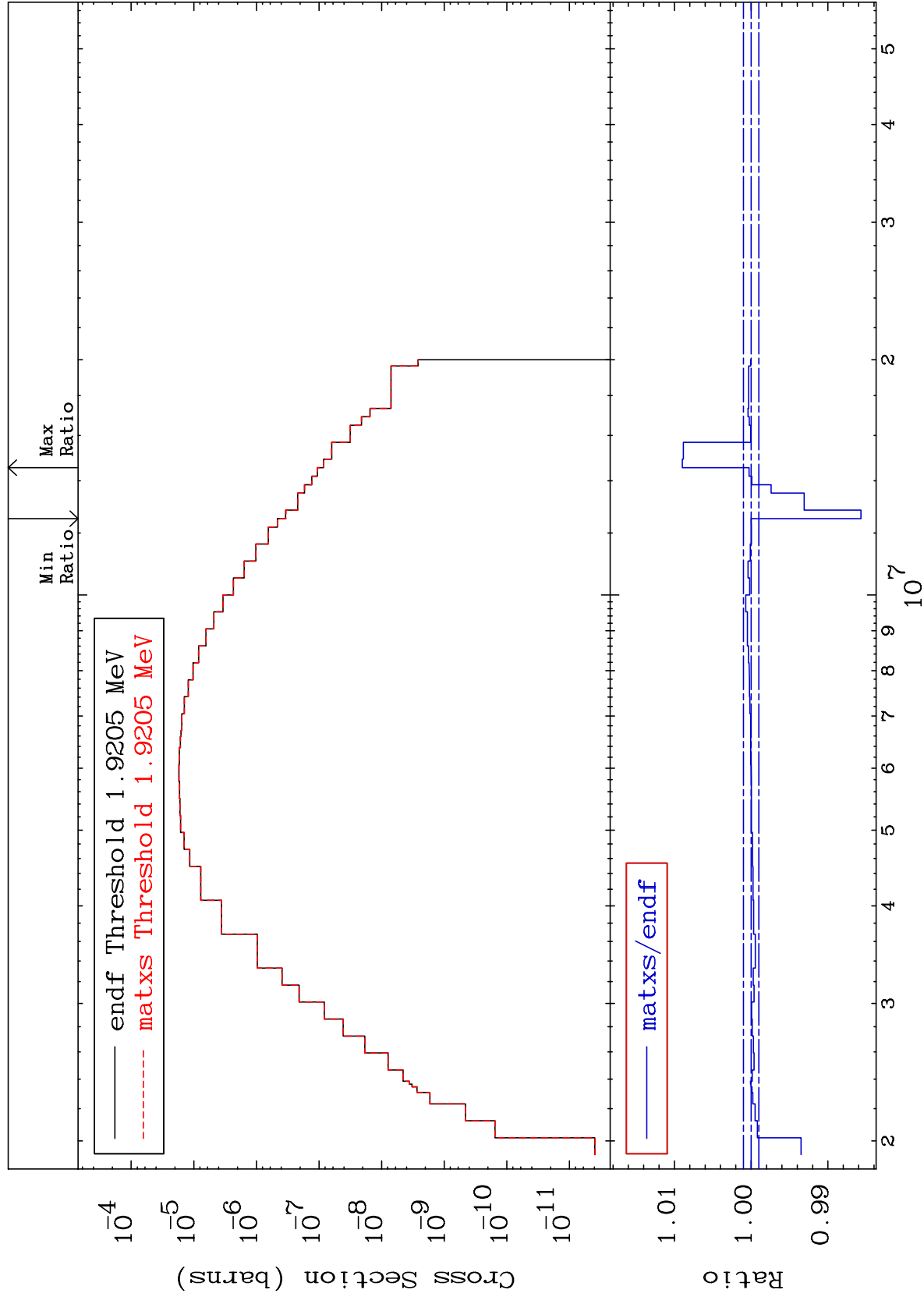
58-Ce-138
-1.471 To 0.915 %



MAT 5831

161.2 keV (n,p') Level
Cross Section

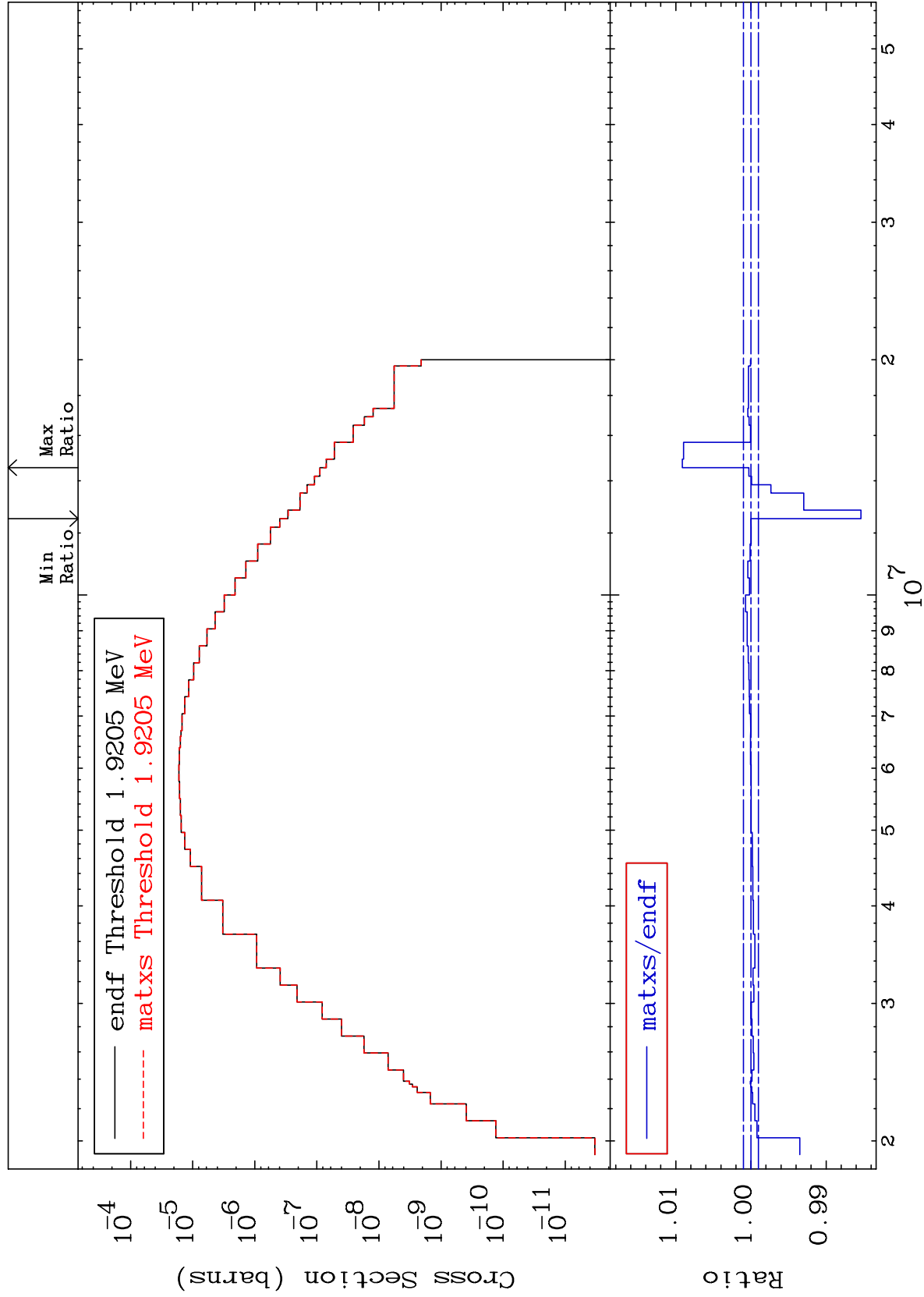
58-Ce-138
-1.430 To 0.896 %



MAT 5831

192.2 keV (n,p') Level
Cross Section

58-Ce-138
-1.463 To 0.913 %



27

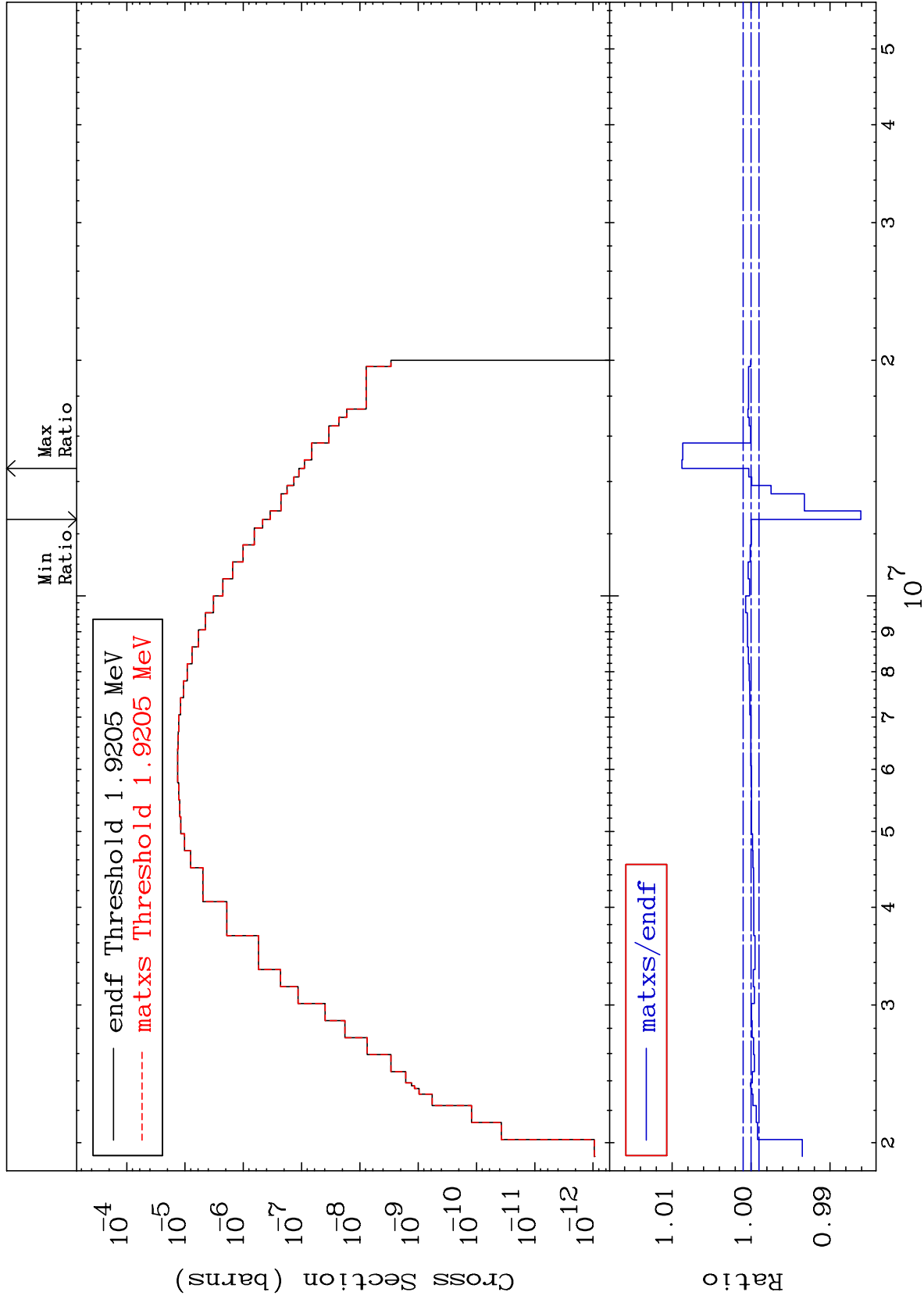
Incident Energy (eV)

58-Ce-138

MAT 5831

230.4 keV (n,p') Level
Cross Section

58-Ce-138
-1.389 To 0.875 %



28

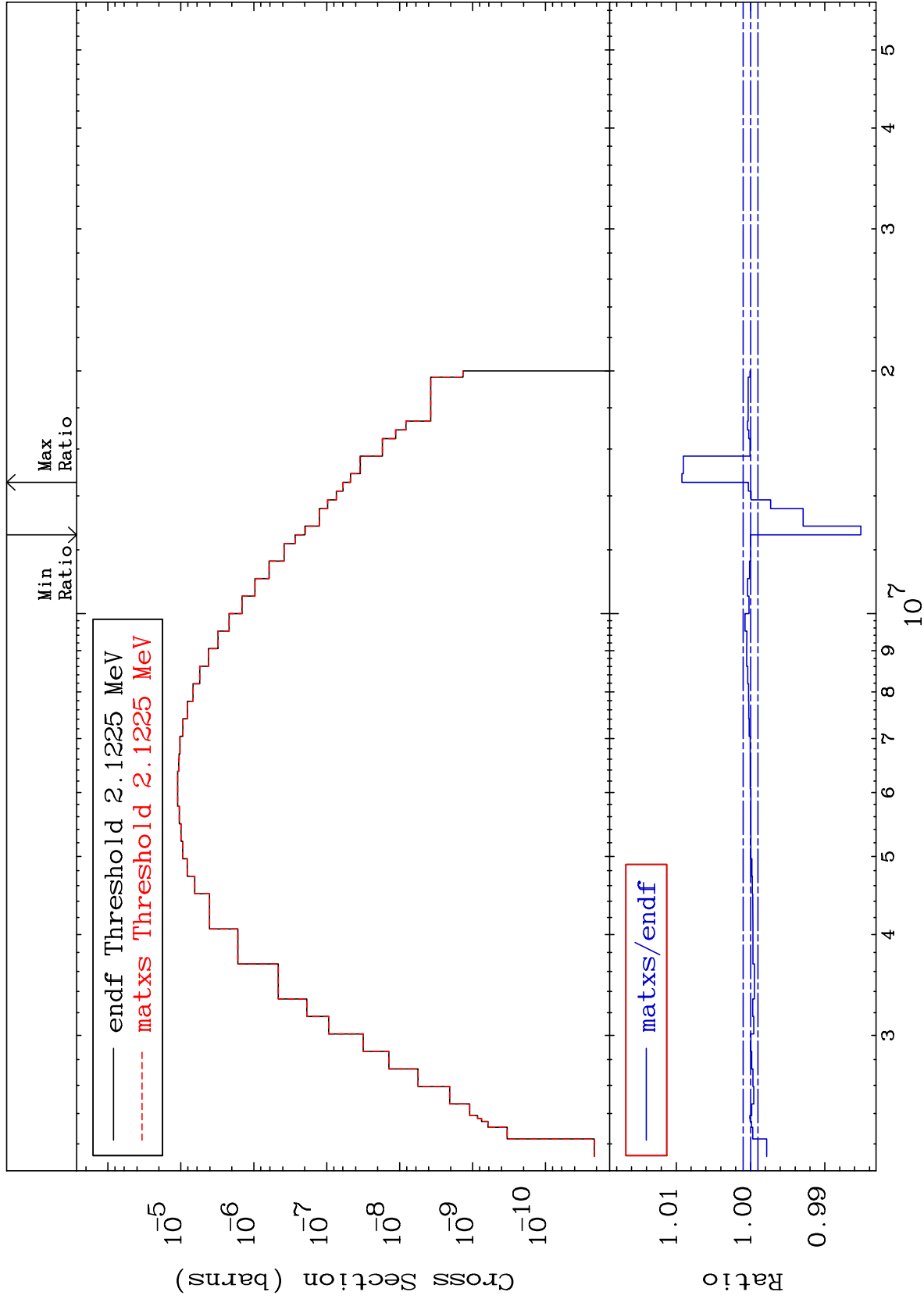
Incident Energy (eV)

58-Ce-138

MAT 5831

293.0 keV (n,p') Level
Cross Section

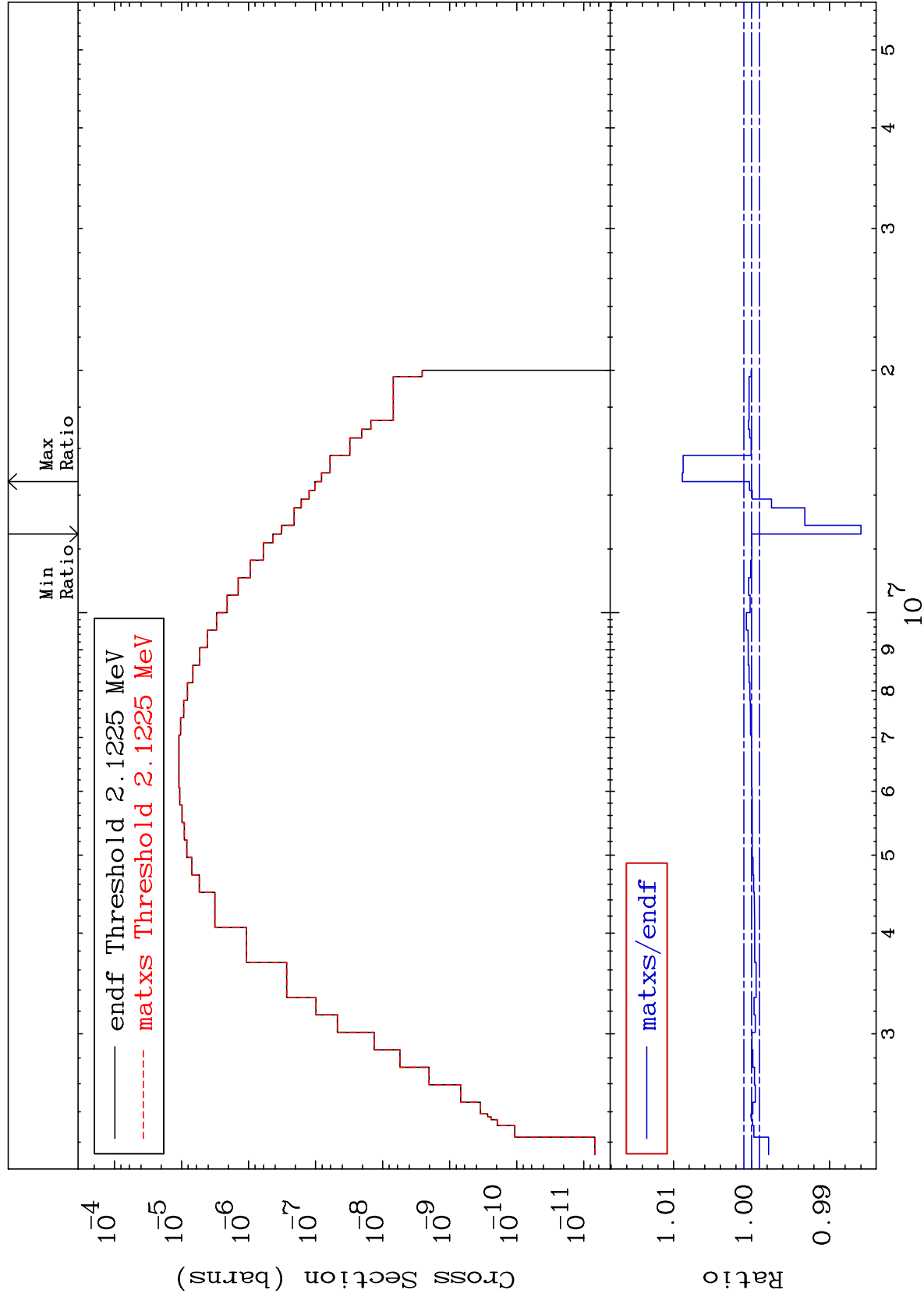
58-Ce-138
-1.483 To 0.923 %



MAT 5831

413.3 keV (n,p') Level
Cross Section

58-Ce-138
-1.401 To 0.887 %



30

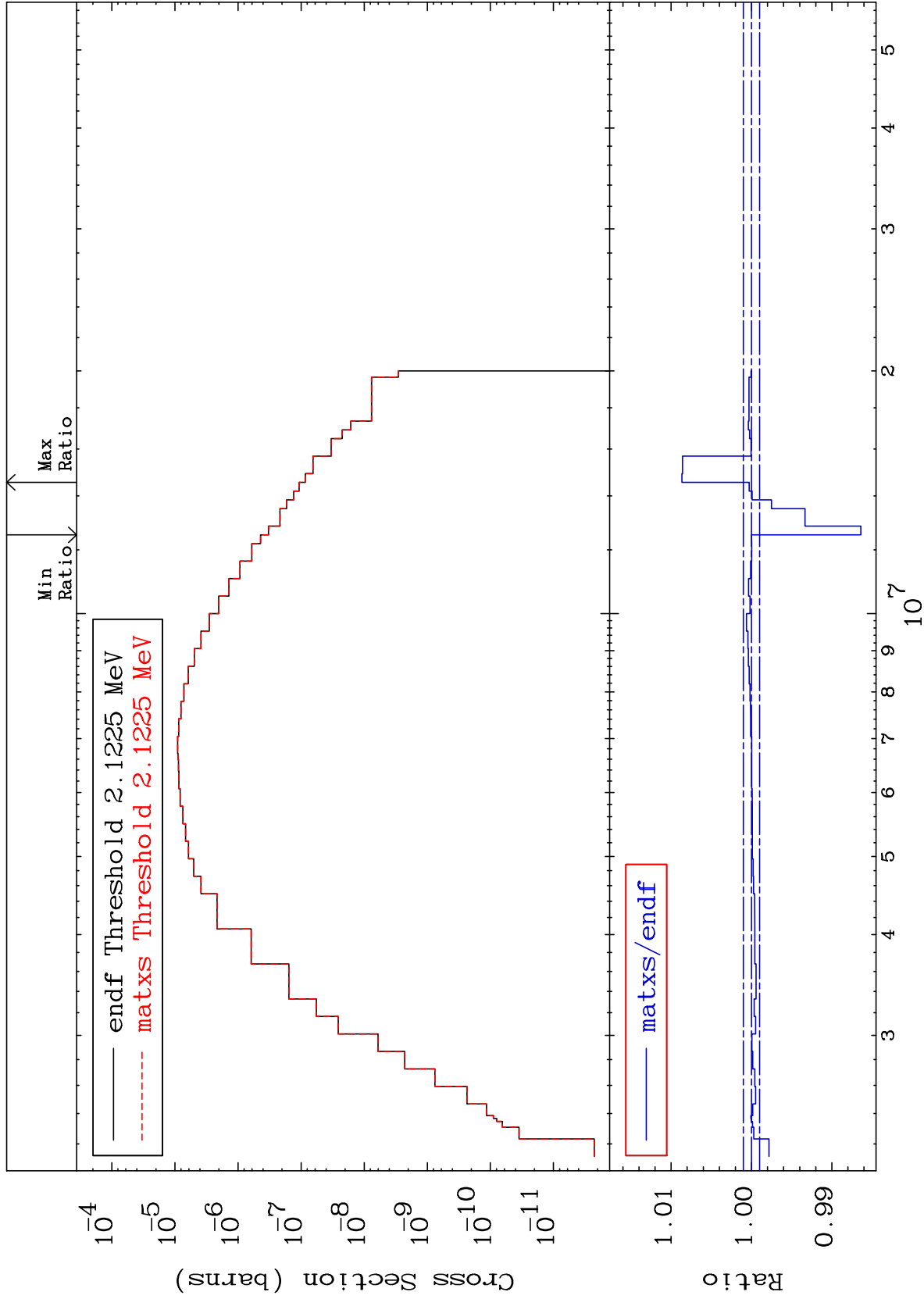
Incident Energy (eV)

58-Ce-138

MAT 5831

479.3 keV (n,p') Level
Cross Section

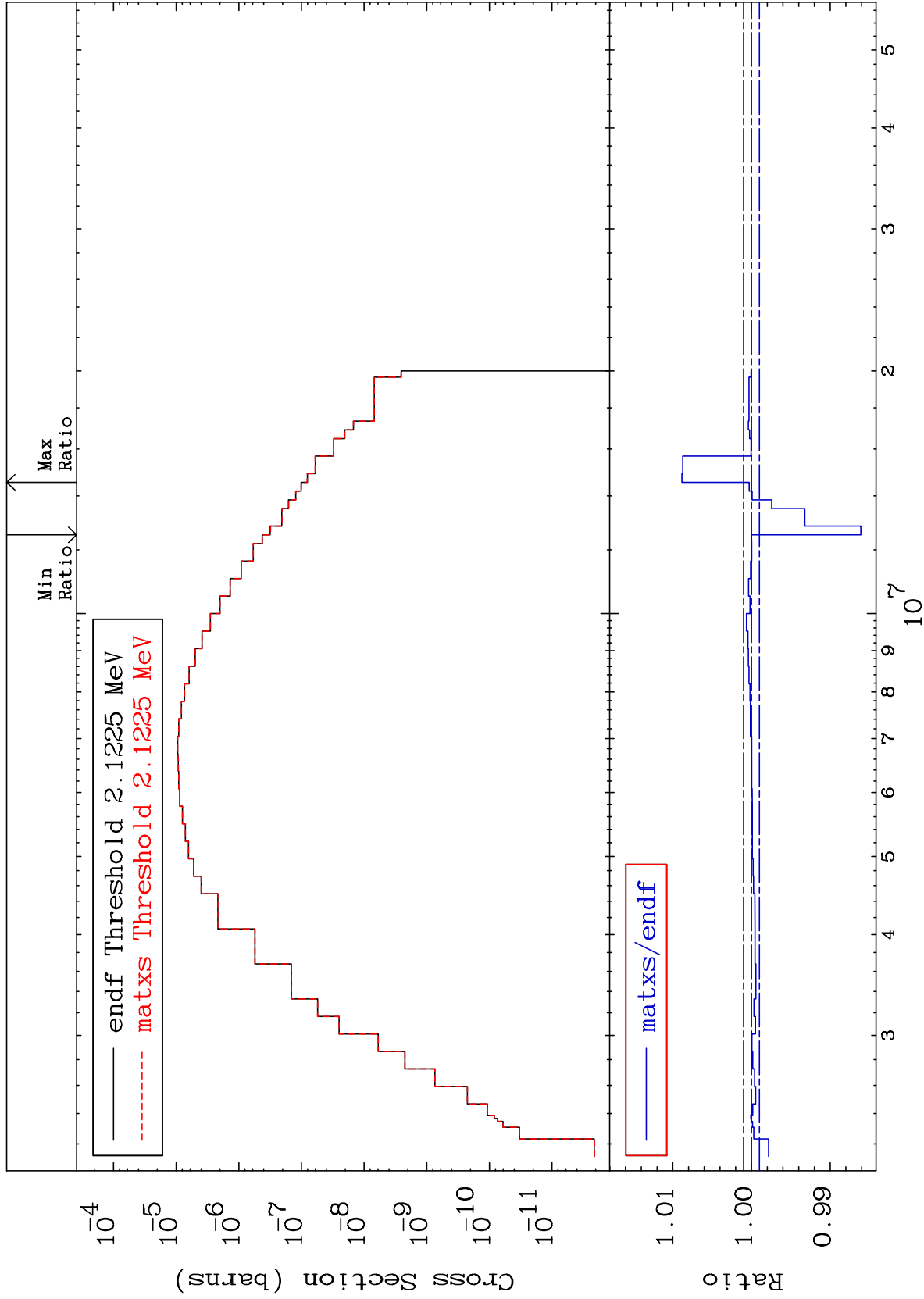
58-Ce-138
-1.361 To 0.865 %



MAT 5831

510.4 keV (n,p') Level
Cross Section

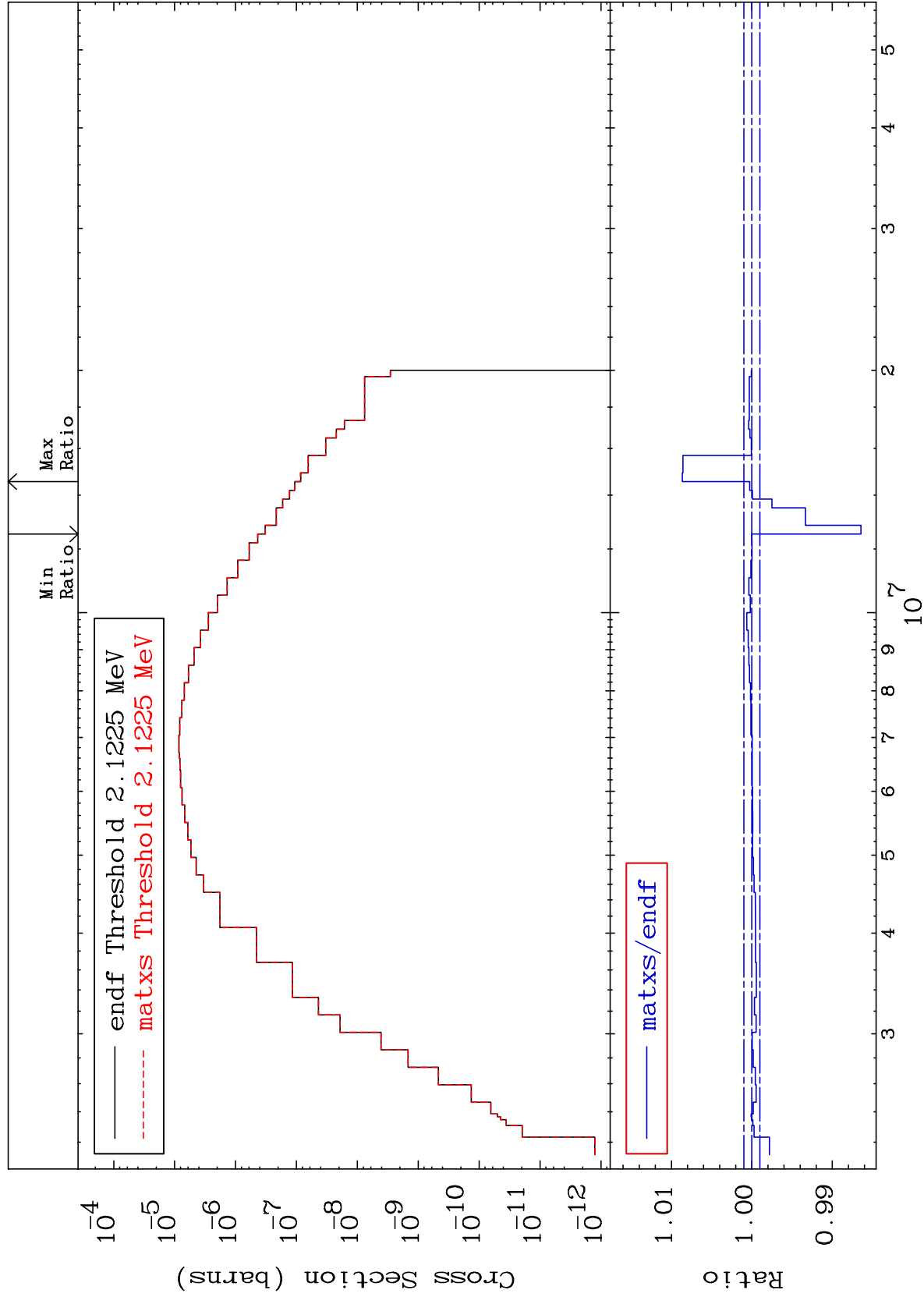
58-Ce-138
-1.389 To 0.883 %



MAT 5831

518.7 keV (n,p') Level
Cross Section

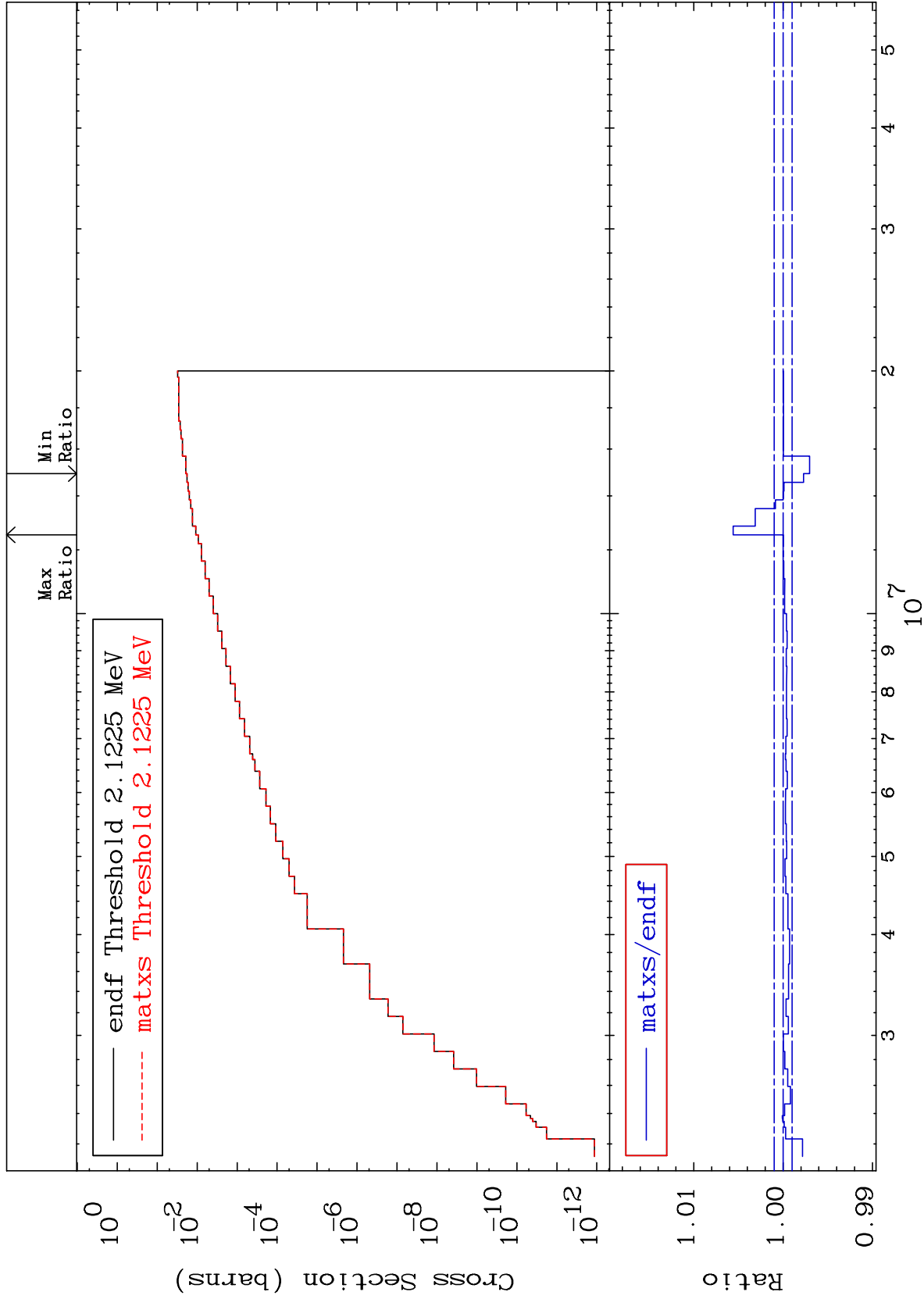
58-Ce-138
-1.356 To 0.864 %



MAT 5831

518.7 keV (n,p') Level
Cross Section

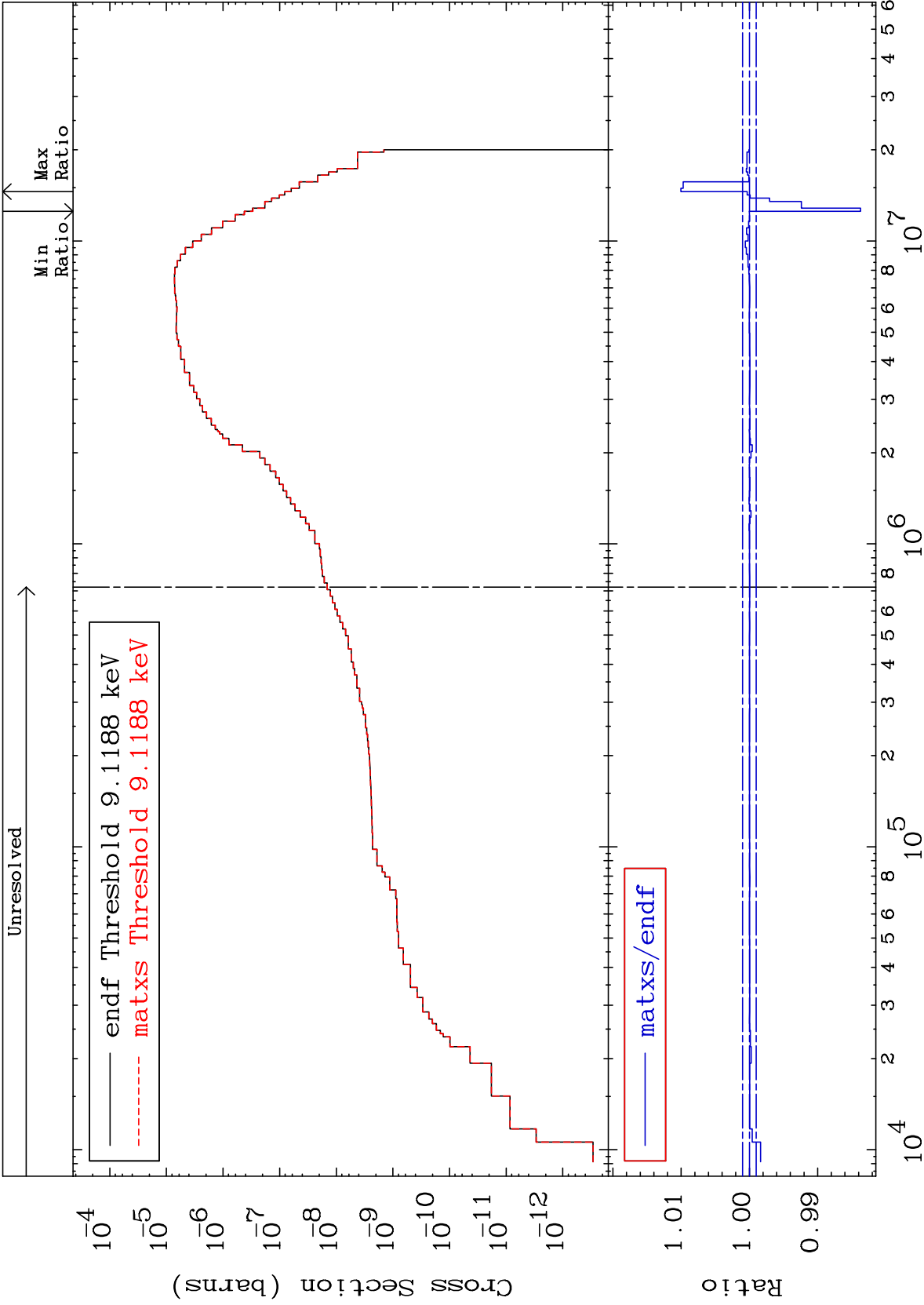
58-Ce-138
-0.298 To 0.560 %



MAT 5831

(n, α') Ground
Cross Section

58-Ce-138
-1.629 To 1.003 %

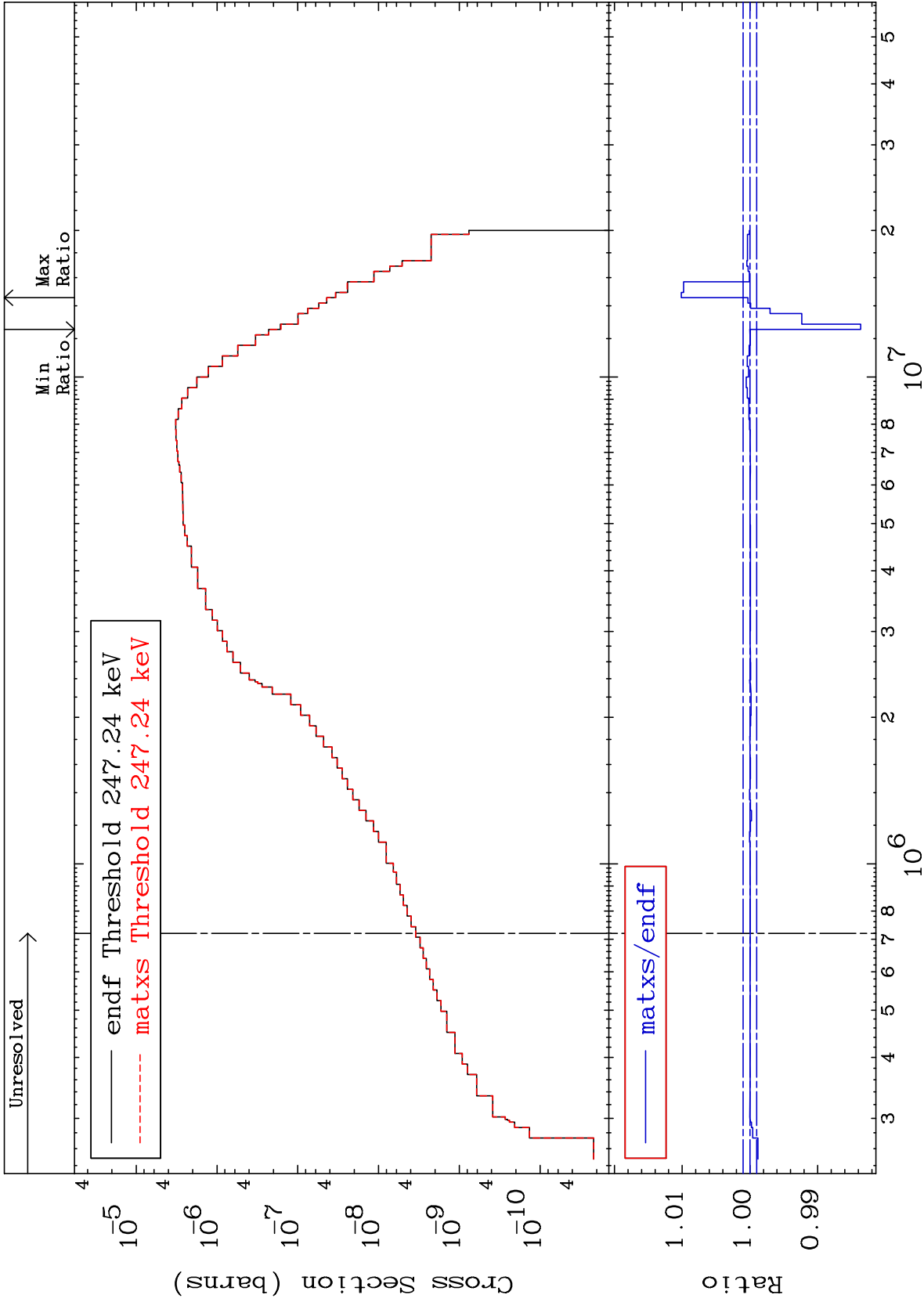


35

MAT 5831

221.0 keV (n, α') Level
Cross Section

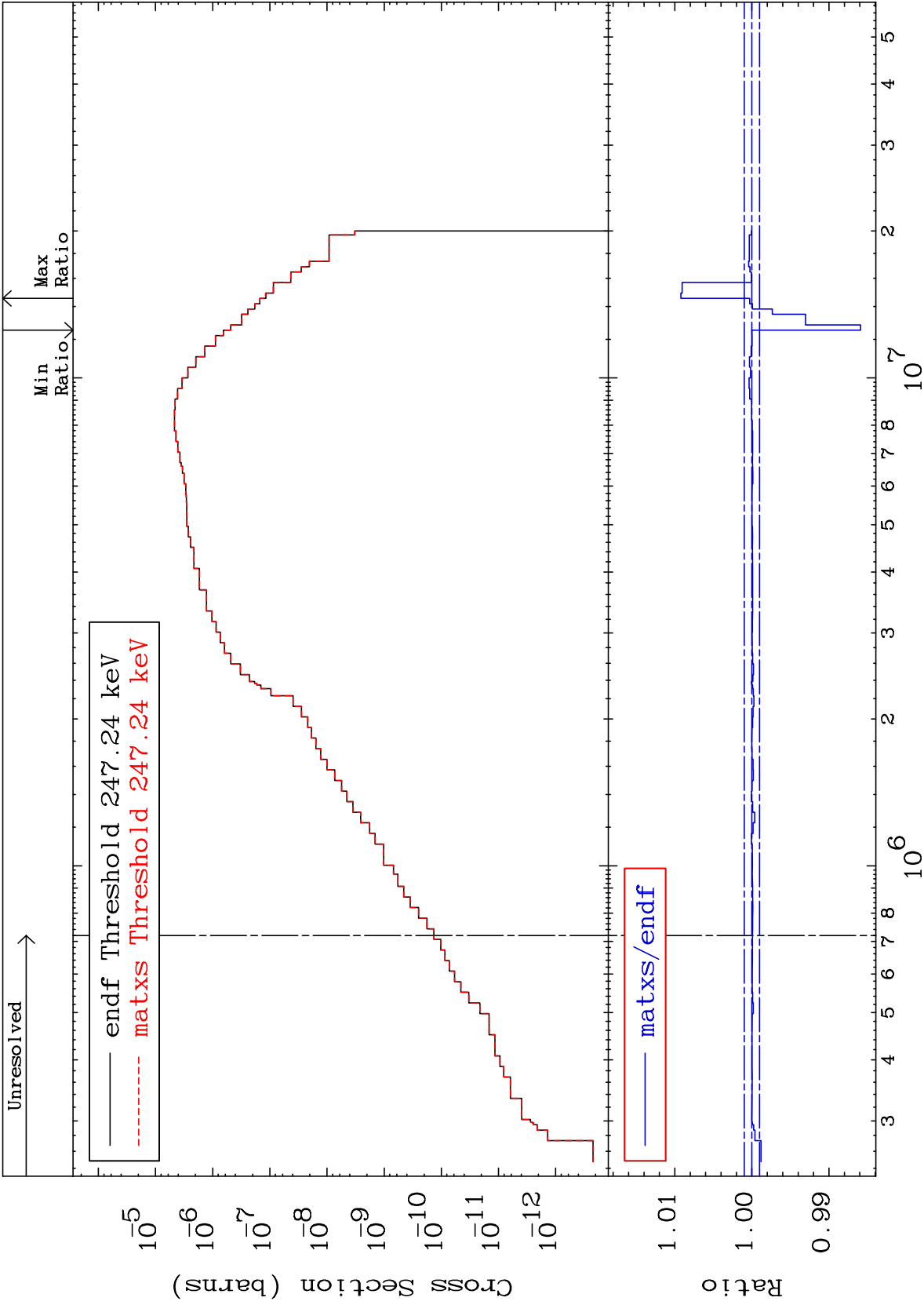
58-Ce-138
-1.635 To 1.012 %



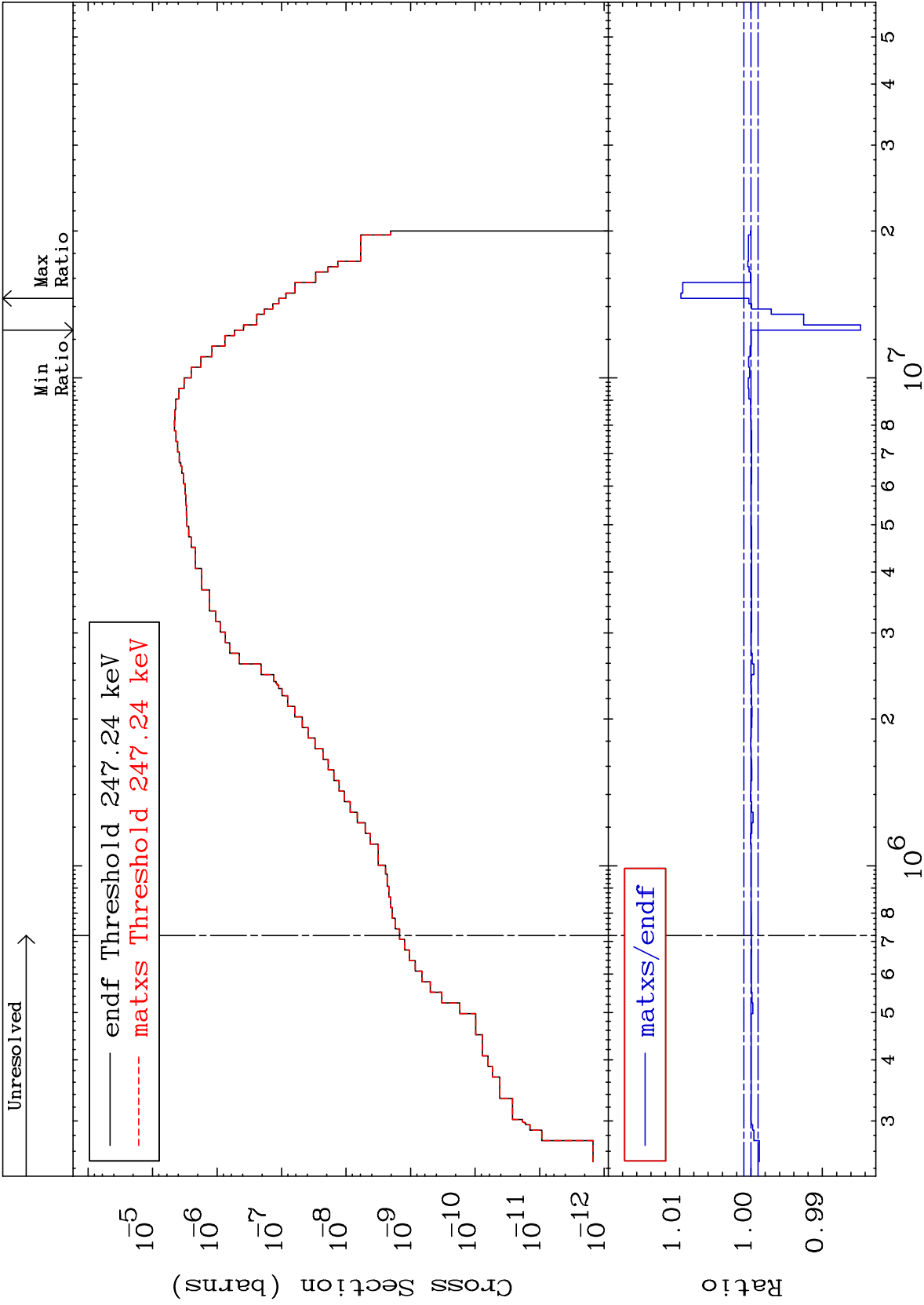
MAT 5831

268.2 keV (n, α') Level
Cross Section

58-Ce-138
-1.410 To 0.921 %



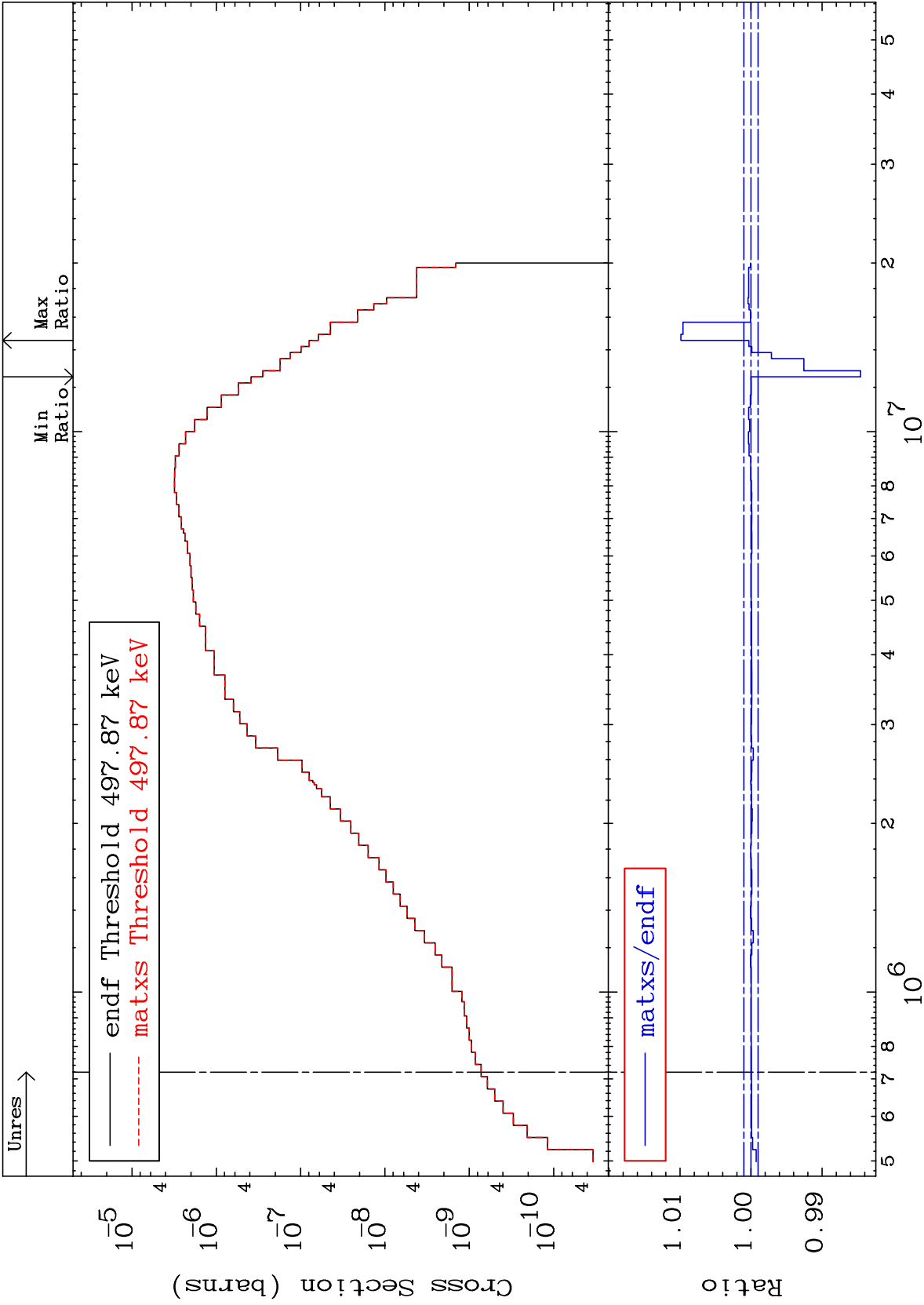
MAT 5831 480.5 keV (n,α') Level 58-Ce-138
 Cross Section -1.535 To 0.981 %



MAT 5831

587.8 keV (n, α') Level
Cross Section

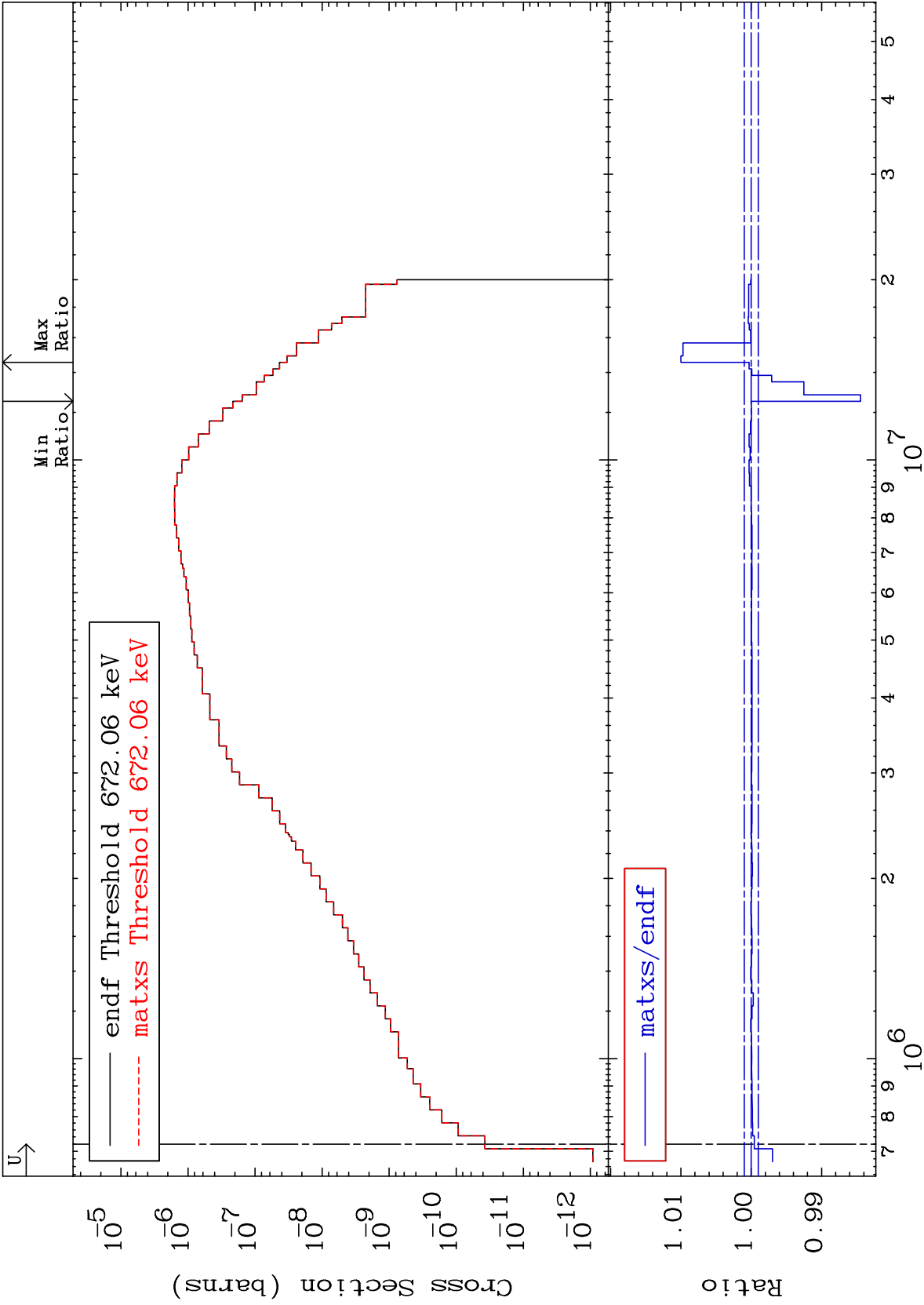
58-Ce-138
-1.542 To 0.987 %



MAT 5831

717.0 keV (n,α') Level
Cross Section

58-Ce-138
-1.554 To 0.999 %



40

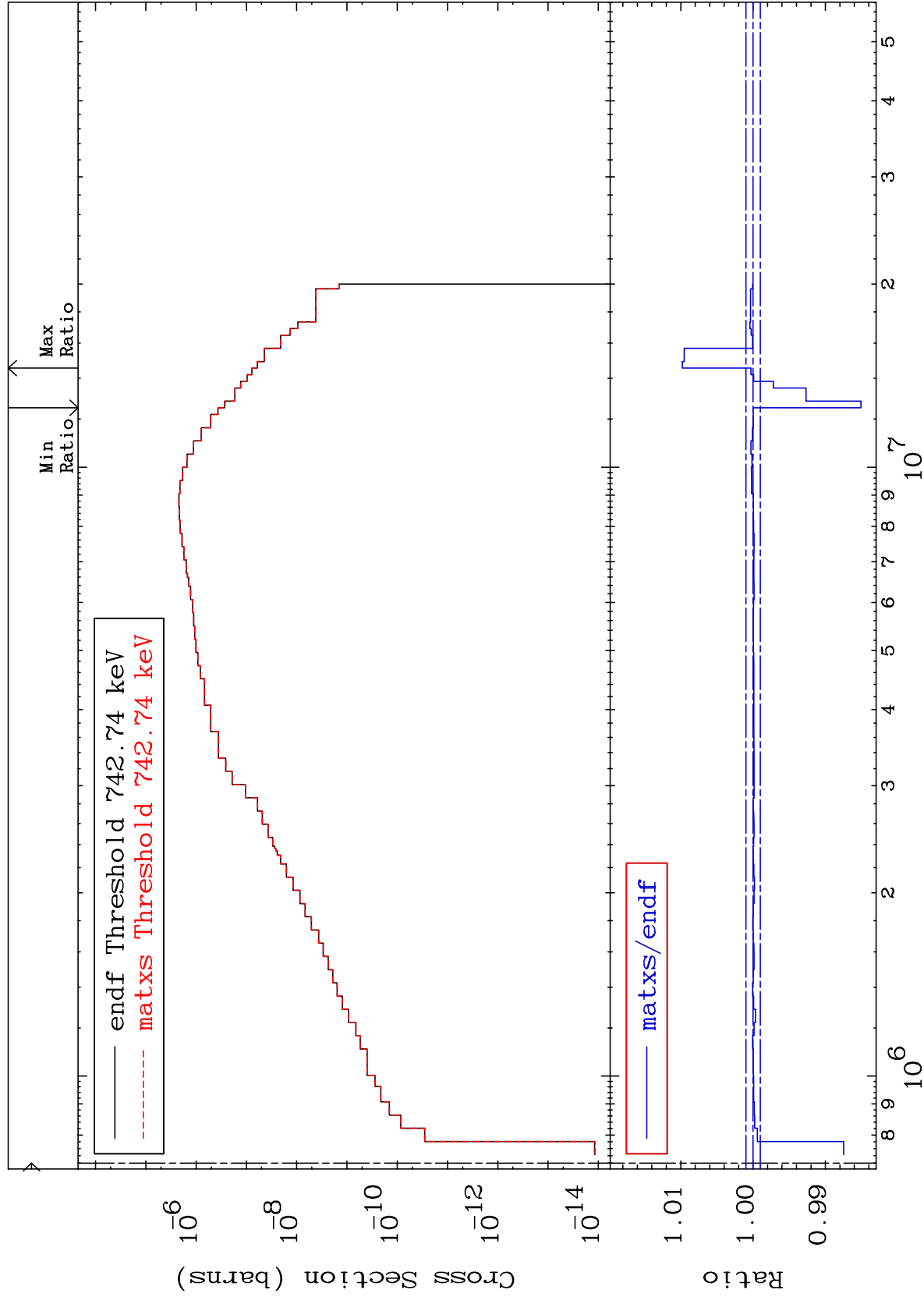
Incident Energy (eV)

58-Ce-138

MAT 5831

855.0 keV (n, α') Level
Cross Section

58-Ce-138
-1.492 To 0.978 %



41

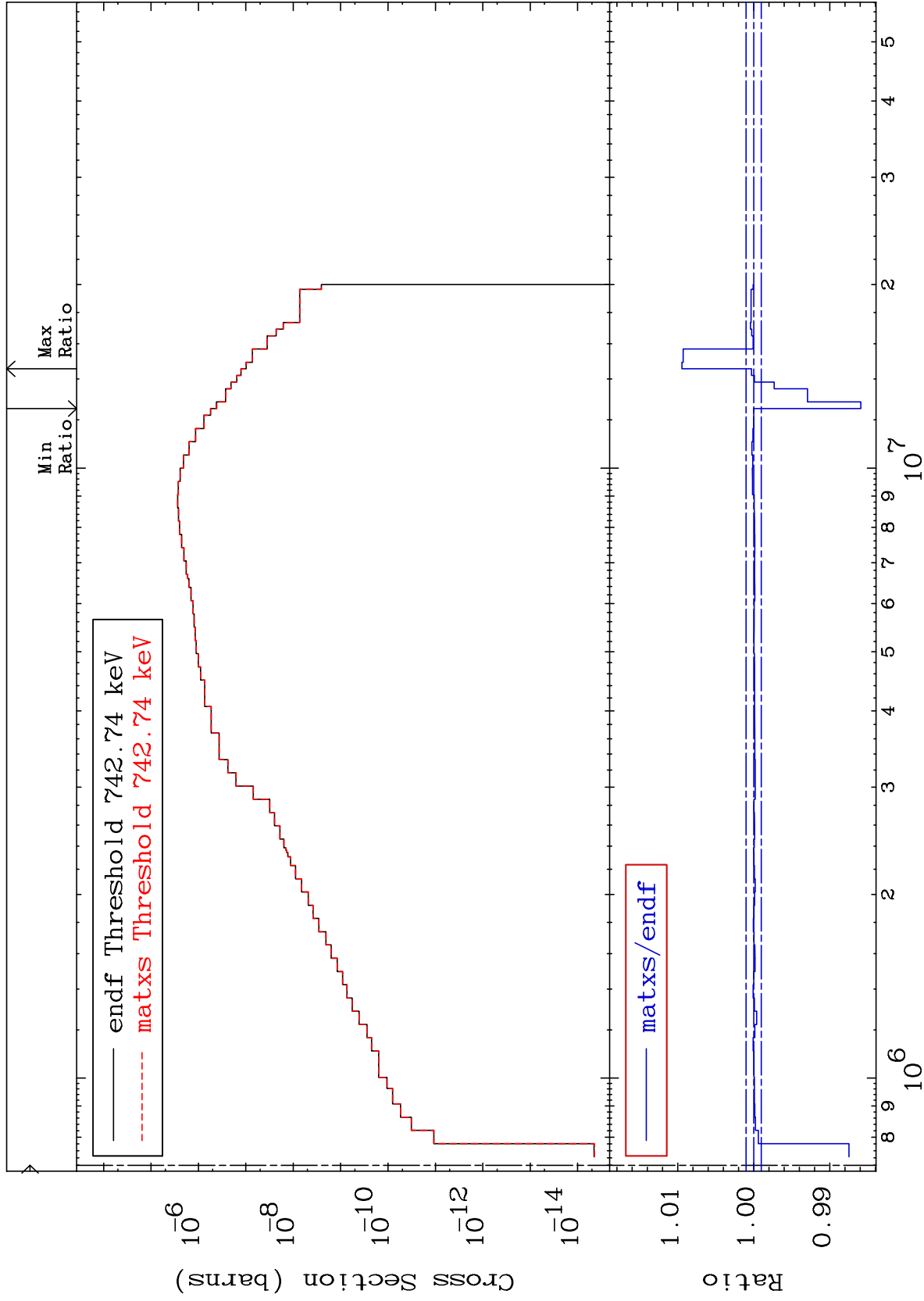
Incident Energy (eV)

58-Ce-138

MAT 5831

874.5 keV (n, α') Level
Cross Section

58-Ce-138
-1.409 To 0.944 %



42

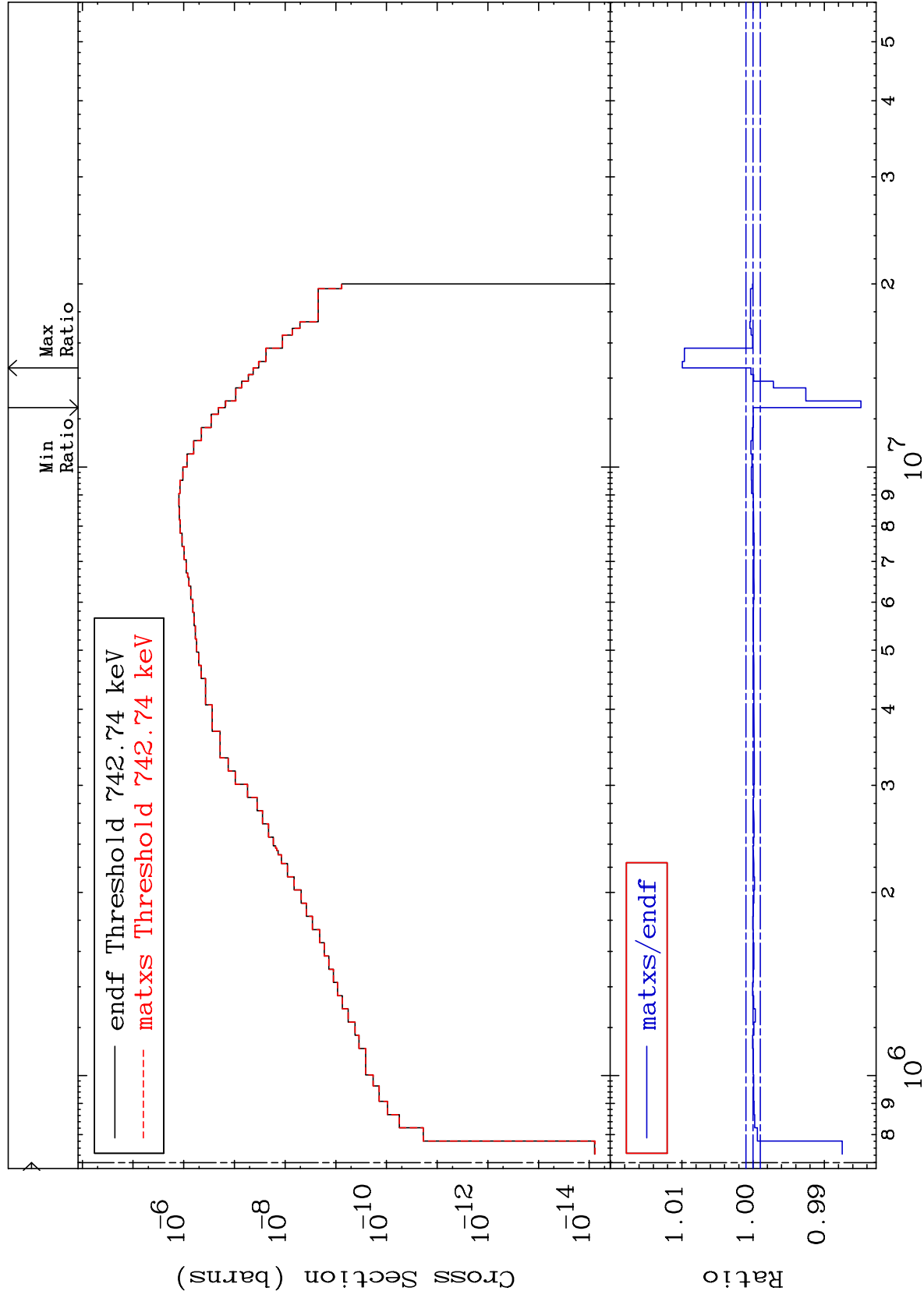
Incident Energy (eV)

58-Ce-138

MAT 5831

910.4 keV (n, α') Level
Cross Section

58-Ce-138
-1.514 To 0.992 %



43

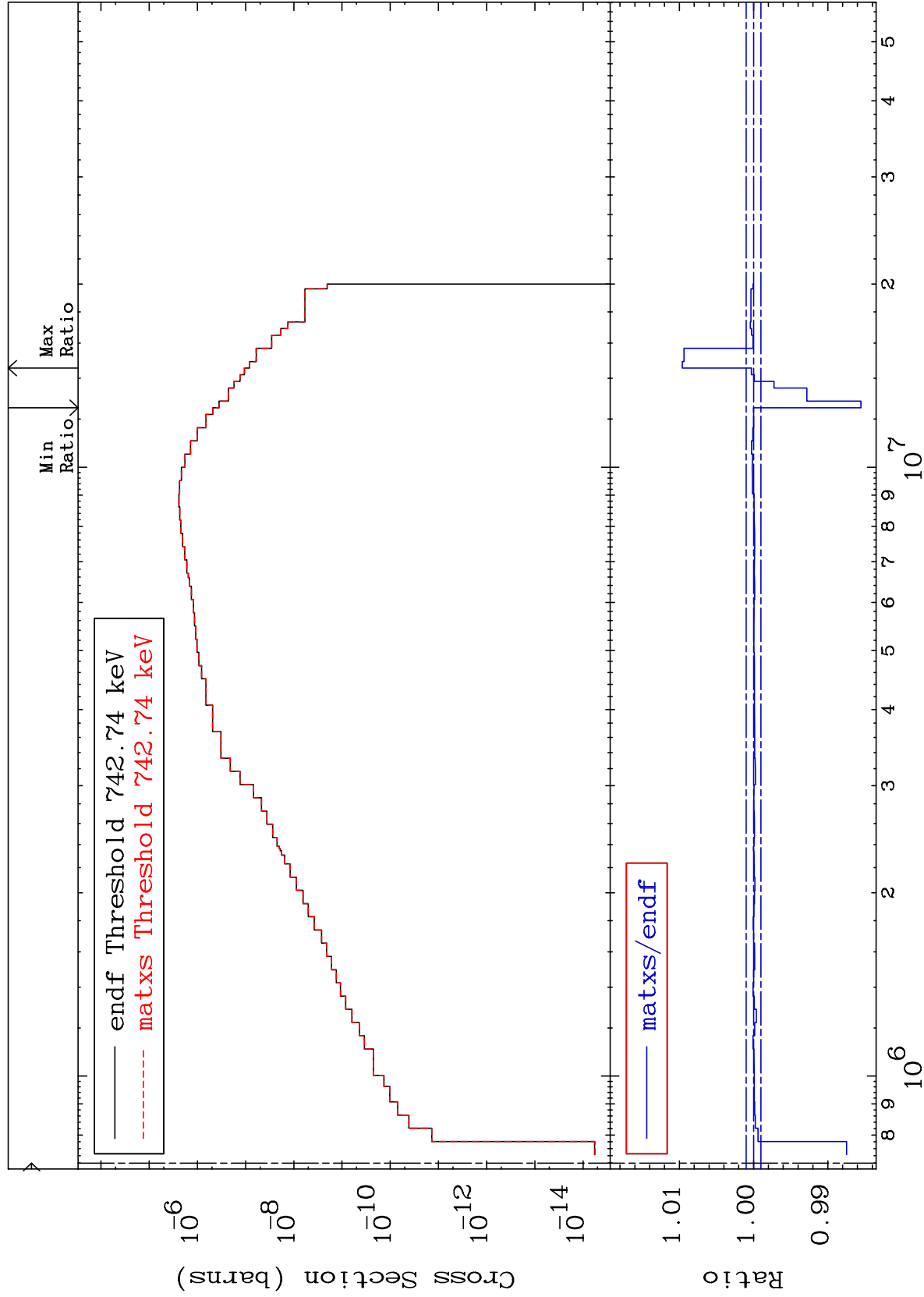
Incident Energy (eV)

58-Ce-138

MAT 5831

932.2 keV (n, α') Level
Cross Section

58-Ce-138
-1.447 To 0.960 %



44

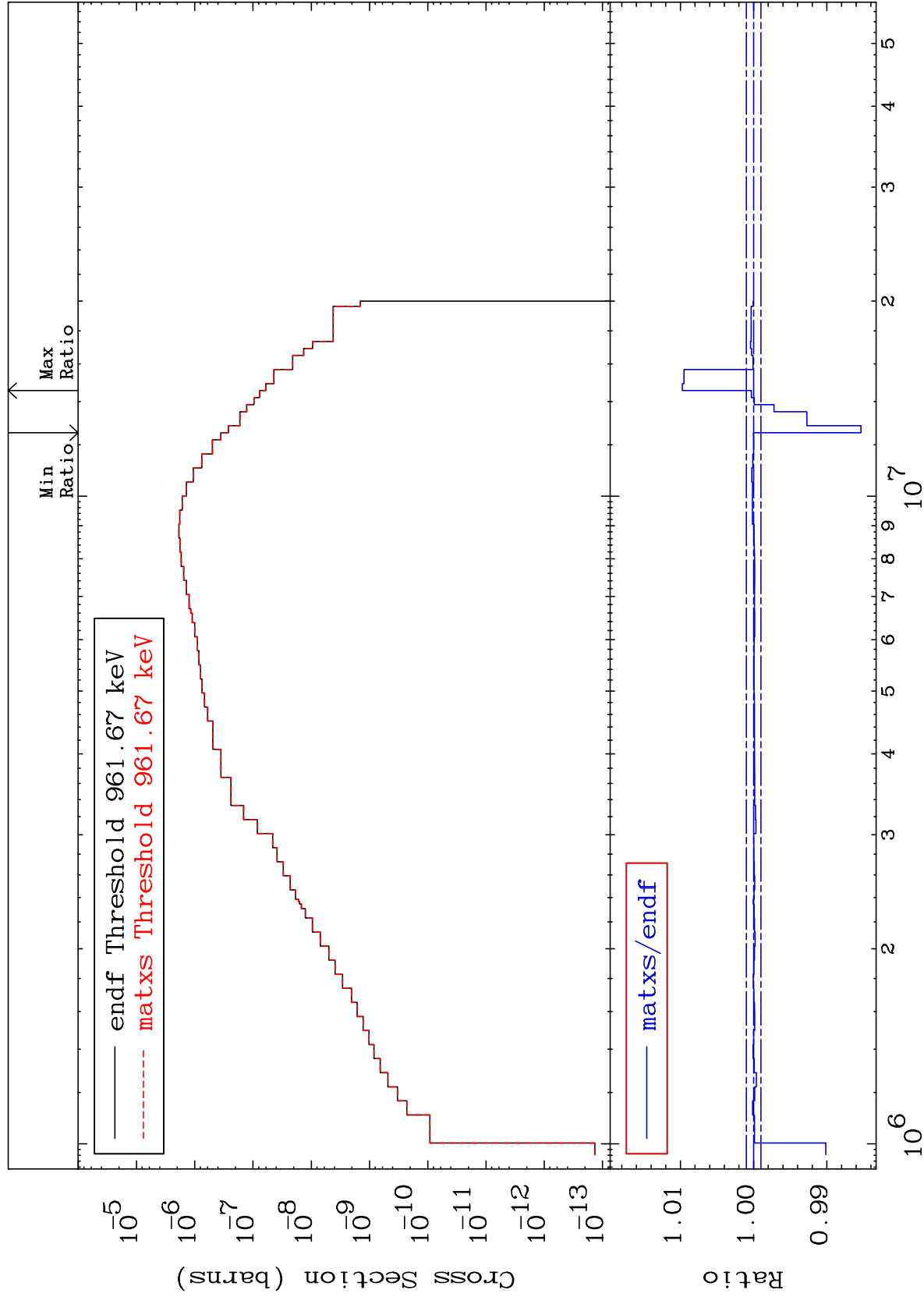
Incident Energy (eV)

58-Ce-138

MAT 5831

980.0 keV (n,α') Level
Cross Section

58-Ce-138
-1.465 To 0.973 %



45

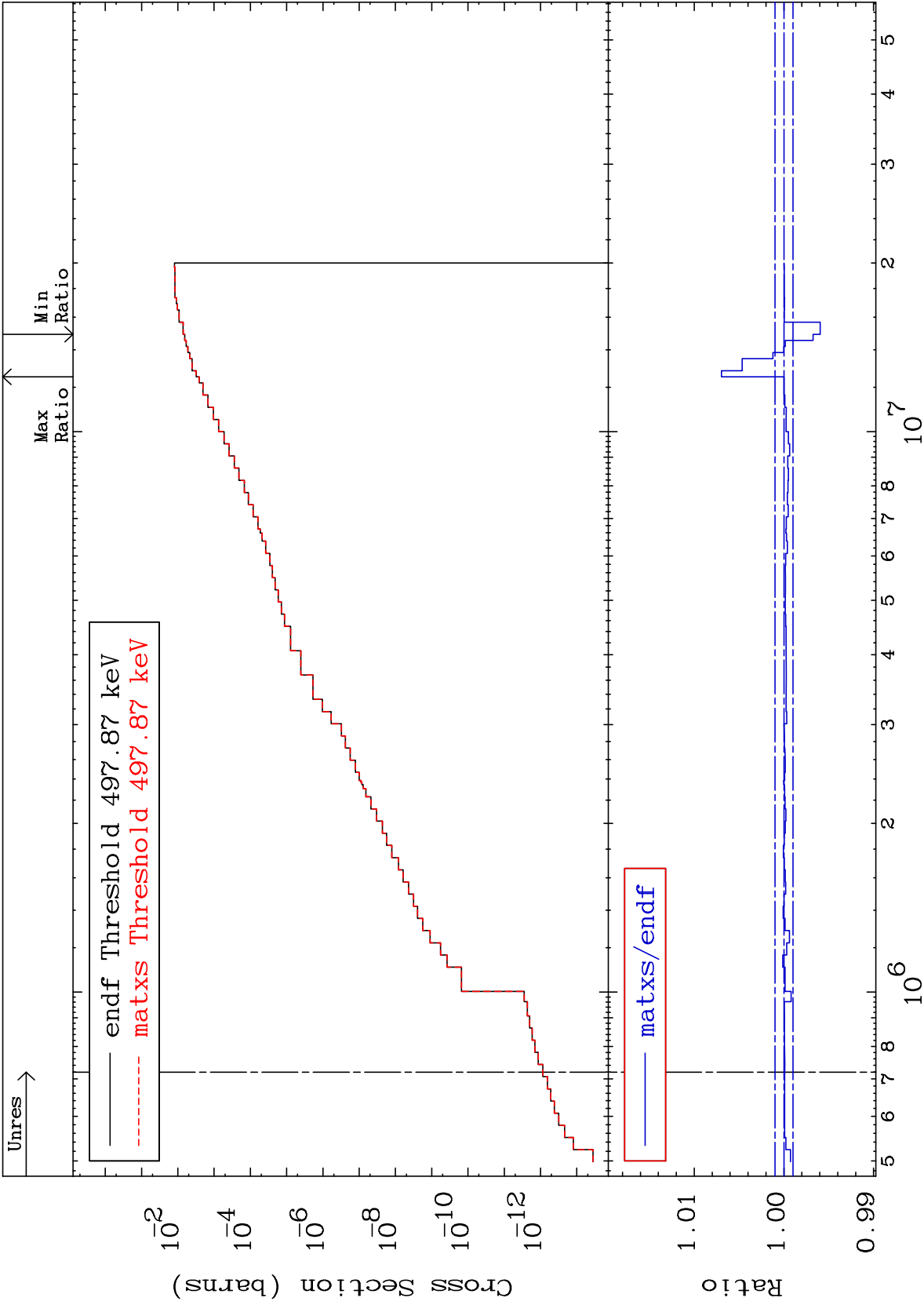
Incident Energy (eV)

58-Ce-138

MAT 5831

980.0 keV (n, α') Level
Cross Section

58-Ce-138
-0.403 To 0.697 %



46

58-Ce-138