

Program Complot
(Version 2021-1)

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: redcullen1.net/HOMEPAGE.NEW

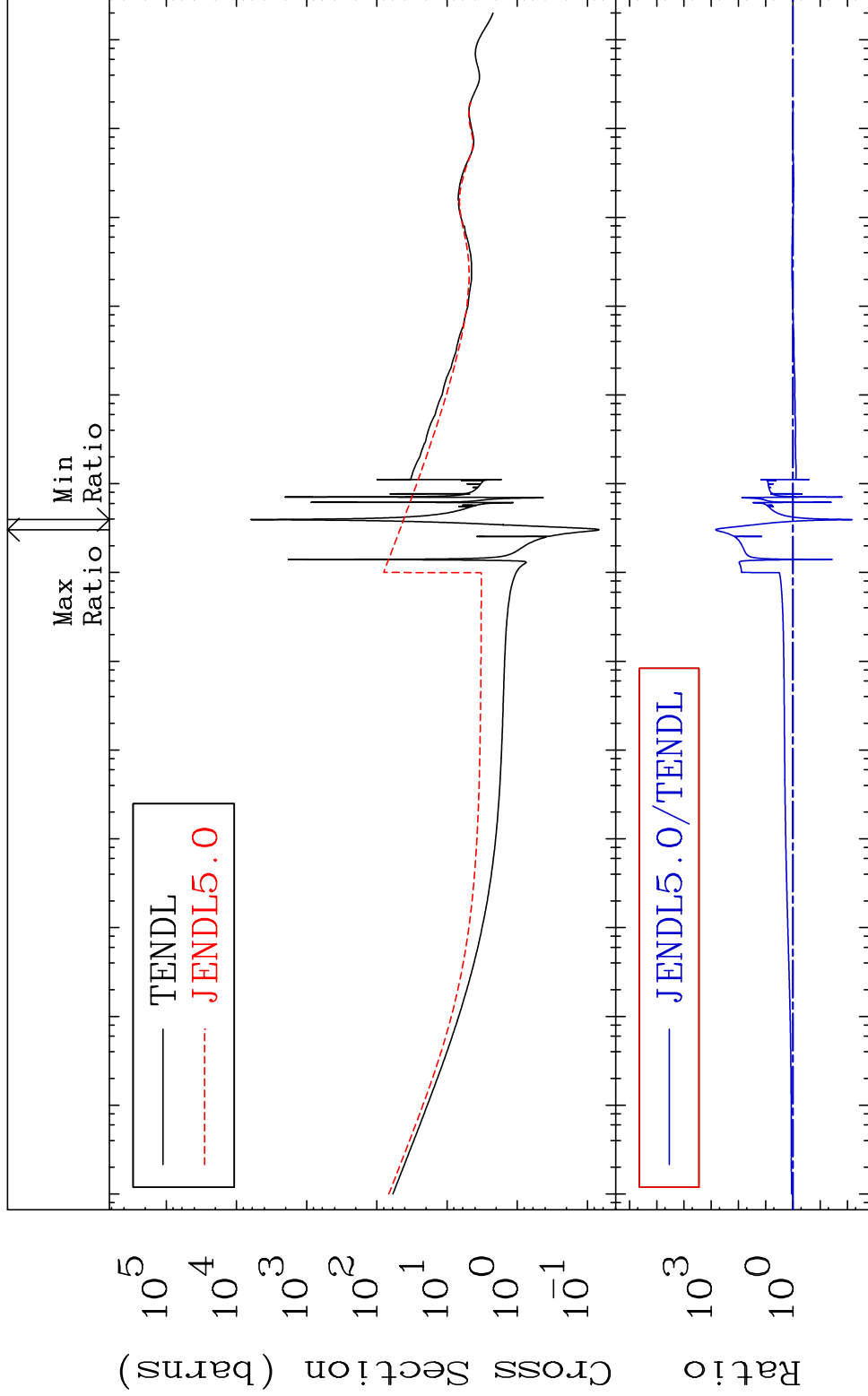
Press Mouse Button to Start

MAT 5831

Total

58-Ce-138

Cross Section -99.33 To 9999. %



1

Incident Energy (eV)

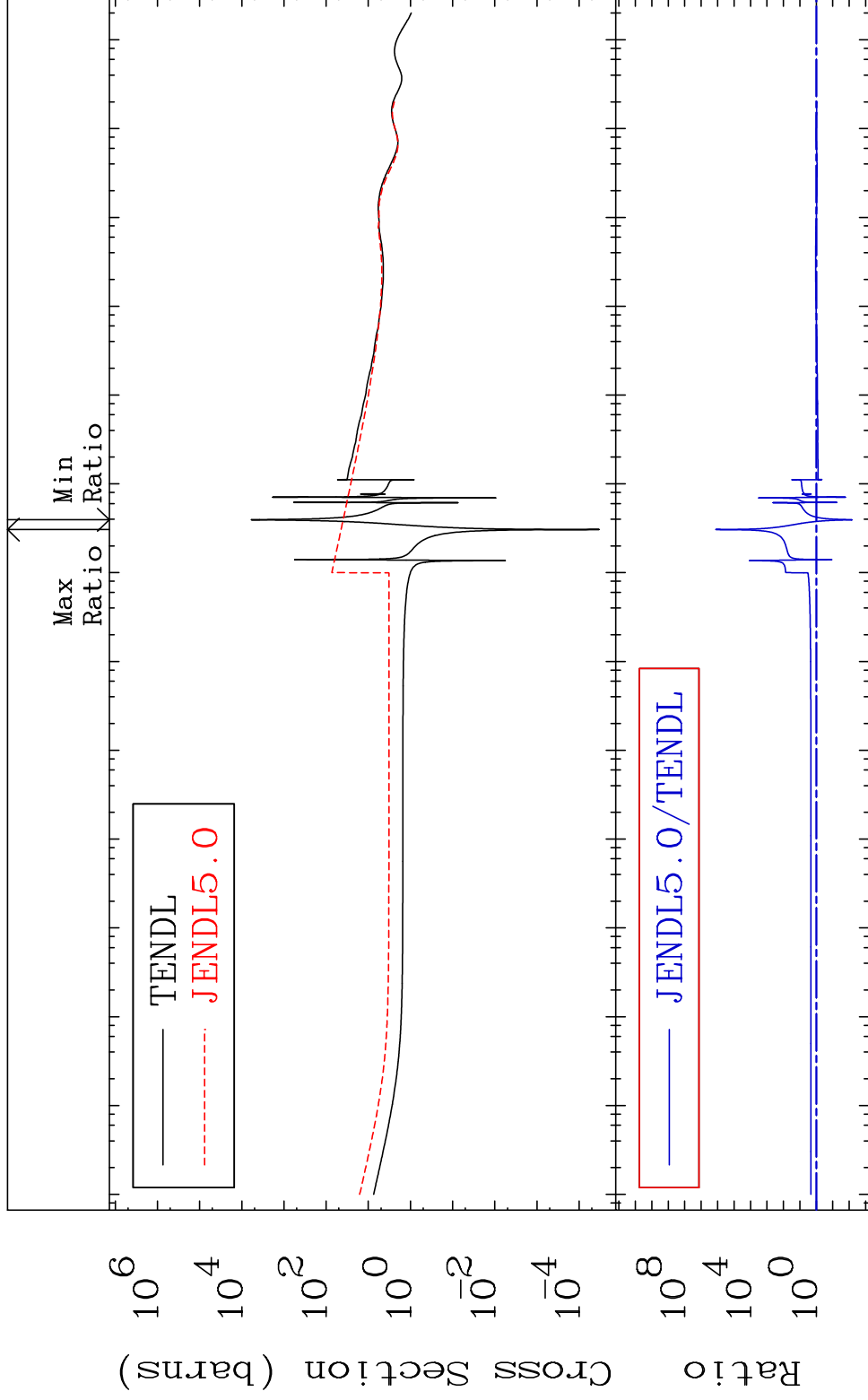
58-Ce-138

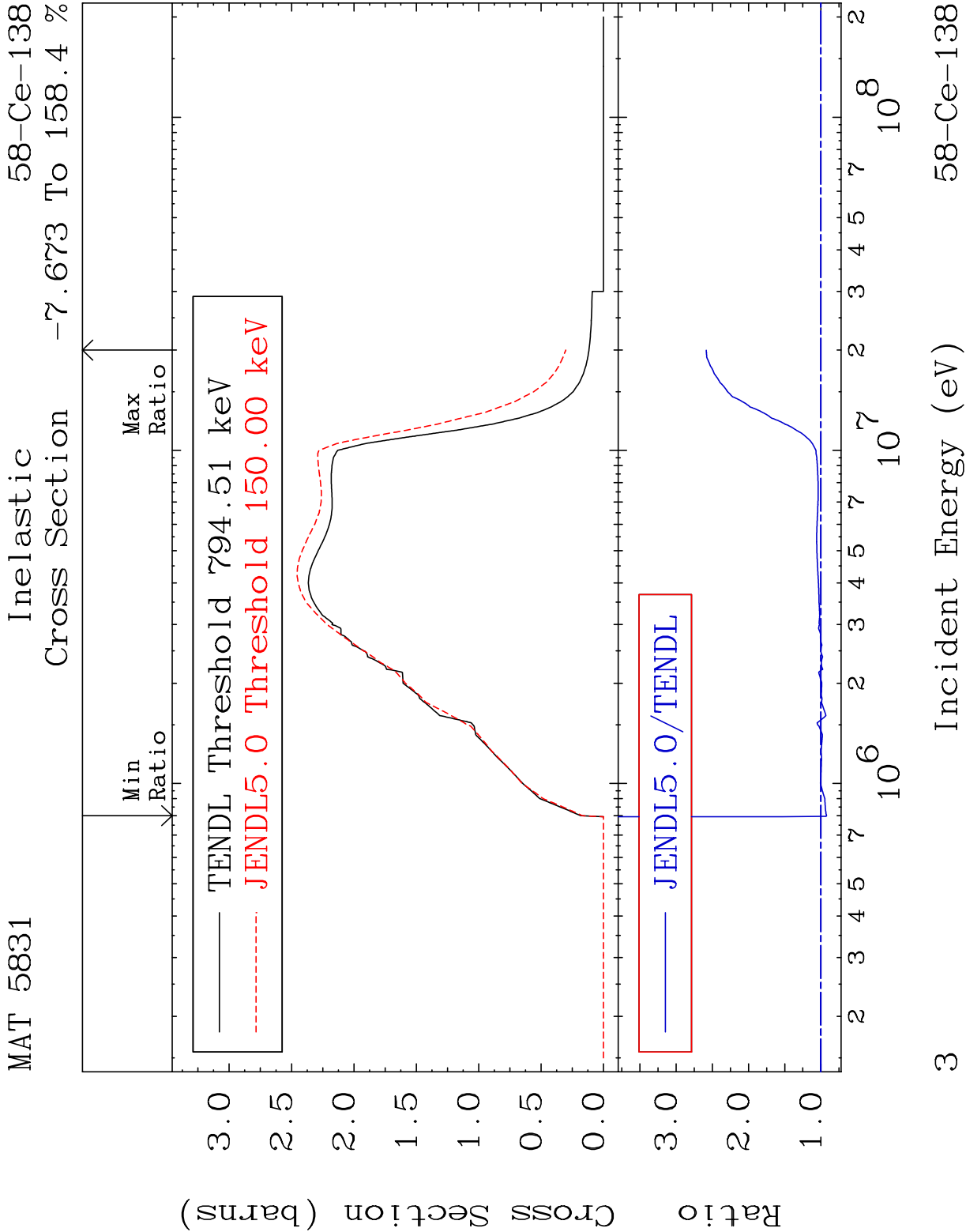
MAT 5831

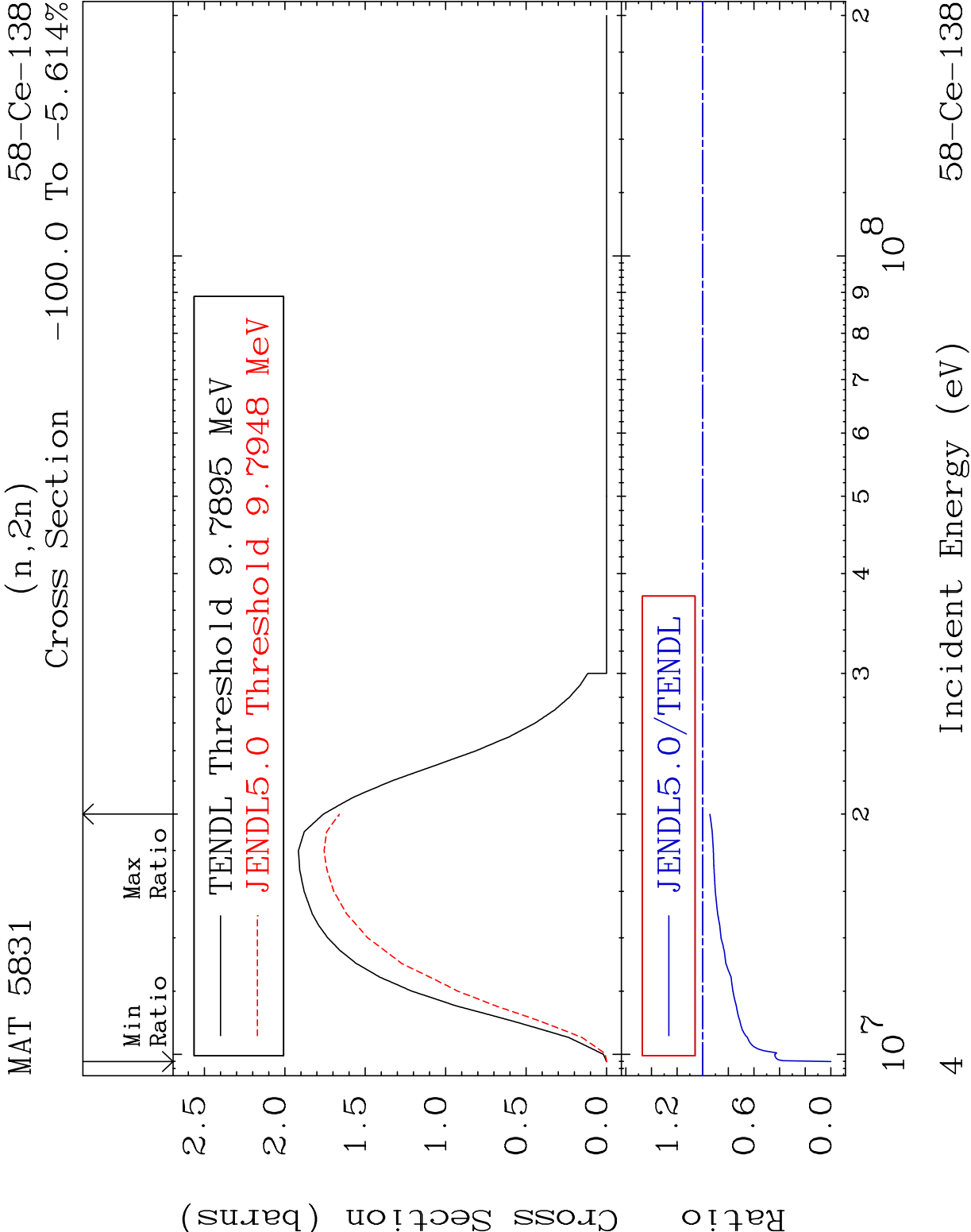
Elastic

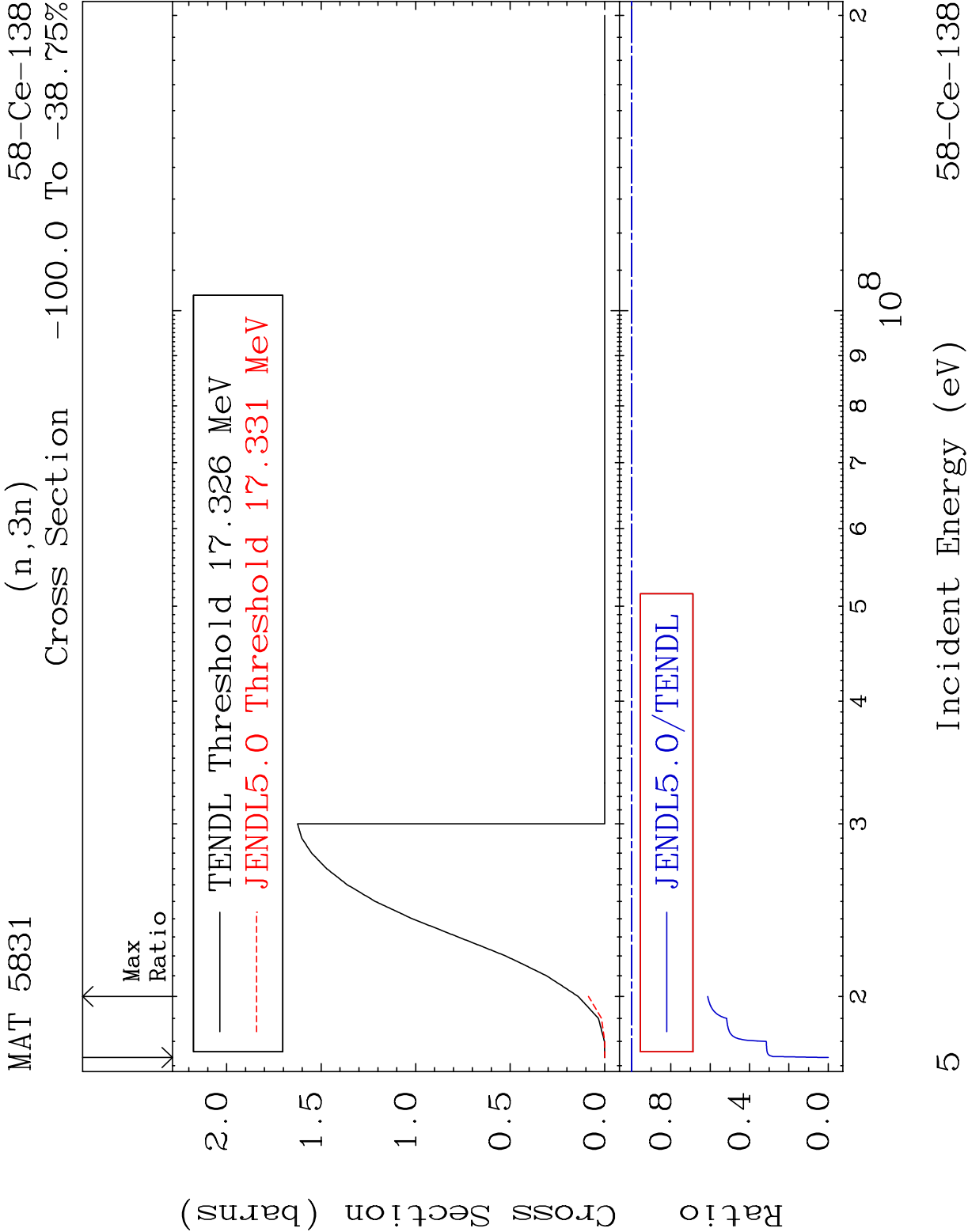
58-Ce-138

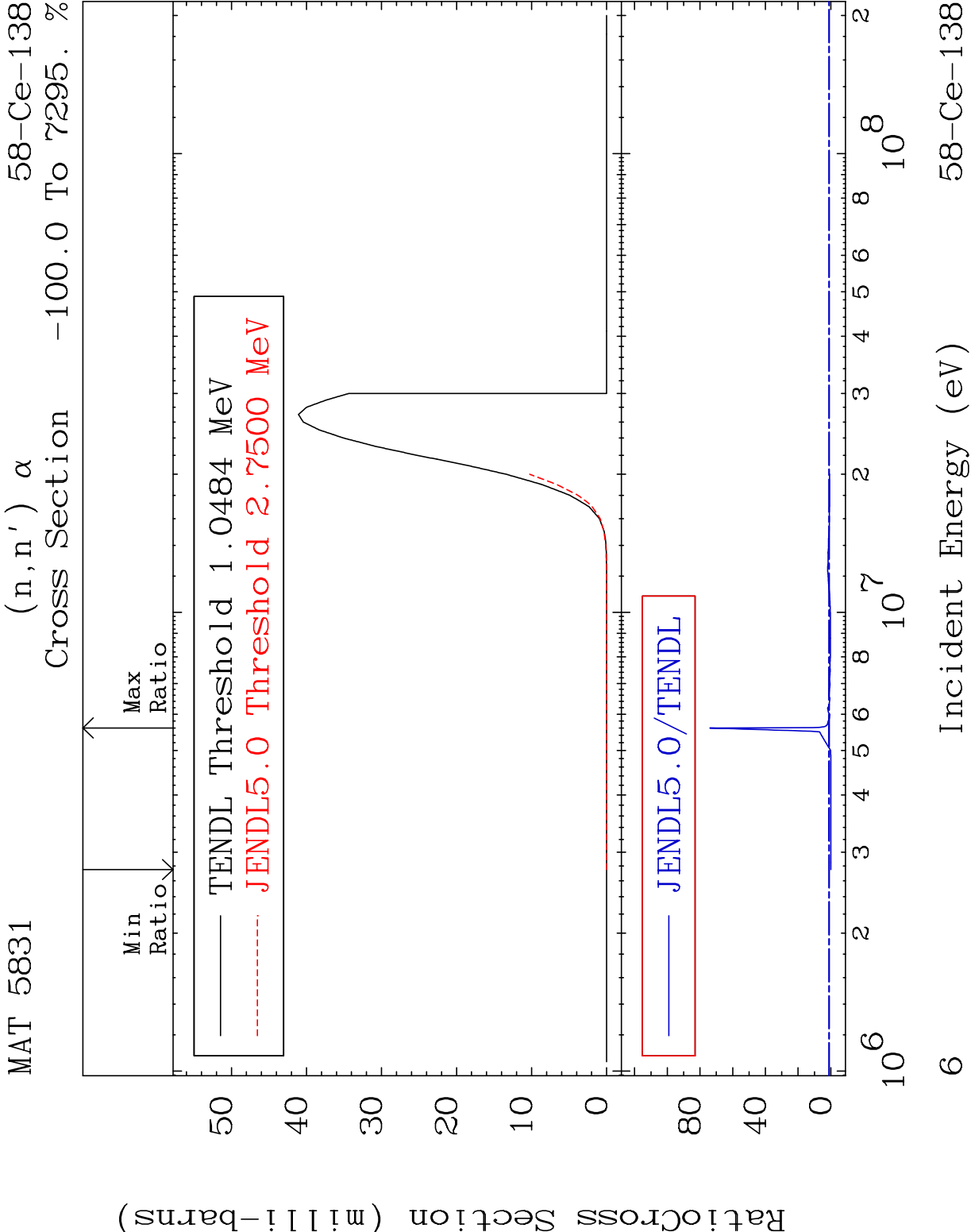
Cross Section -99.35 To 9999. %









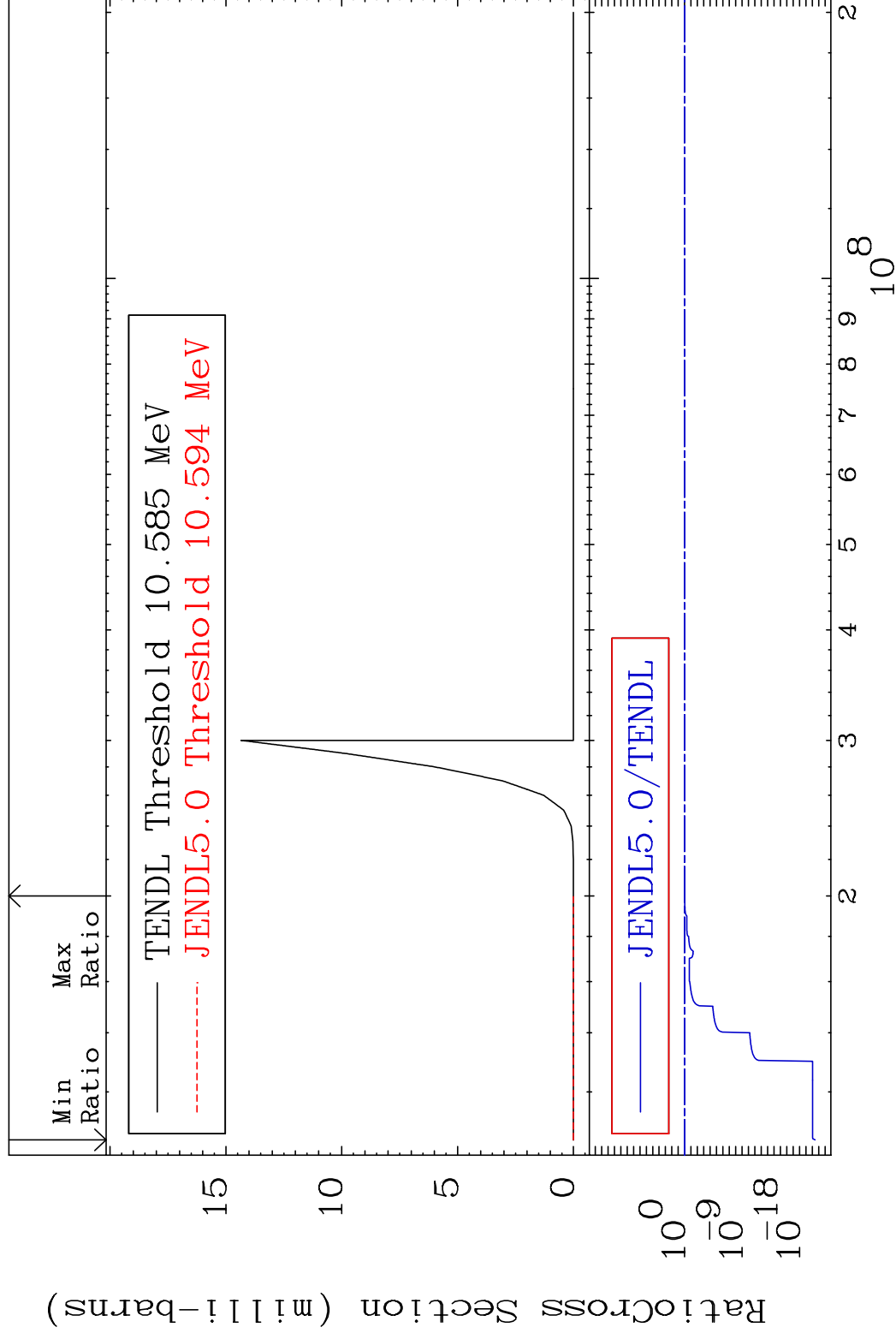


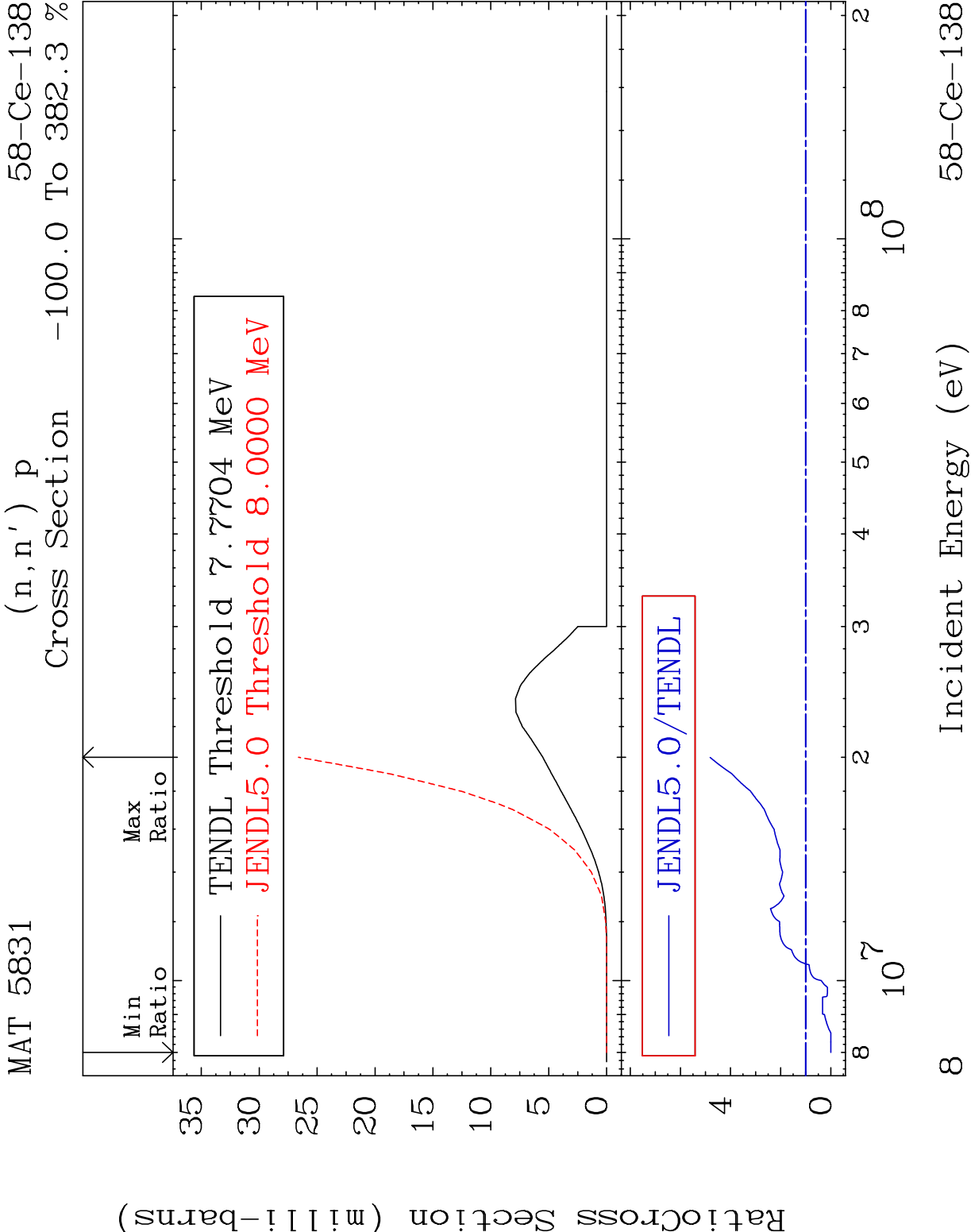
MAT 5831

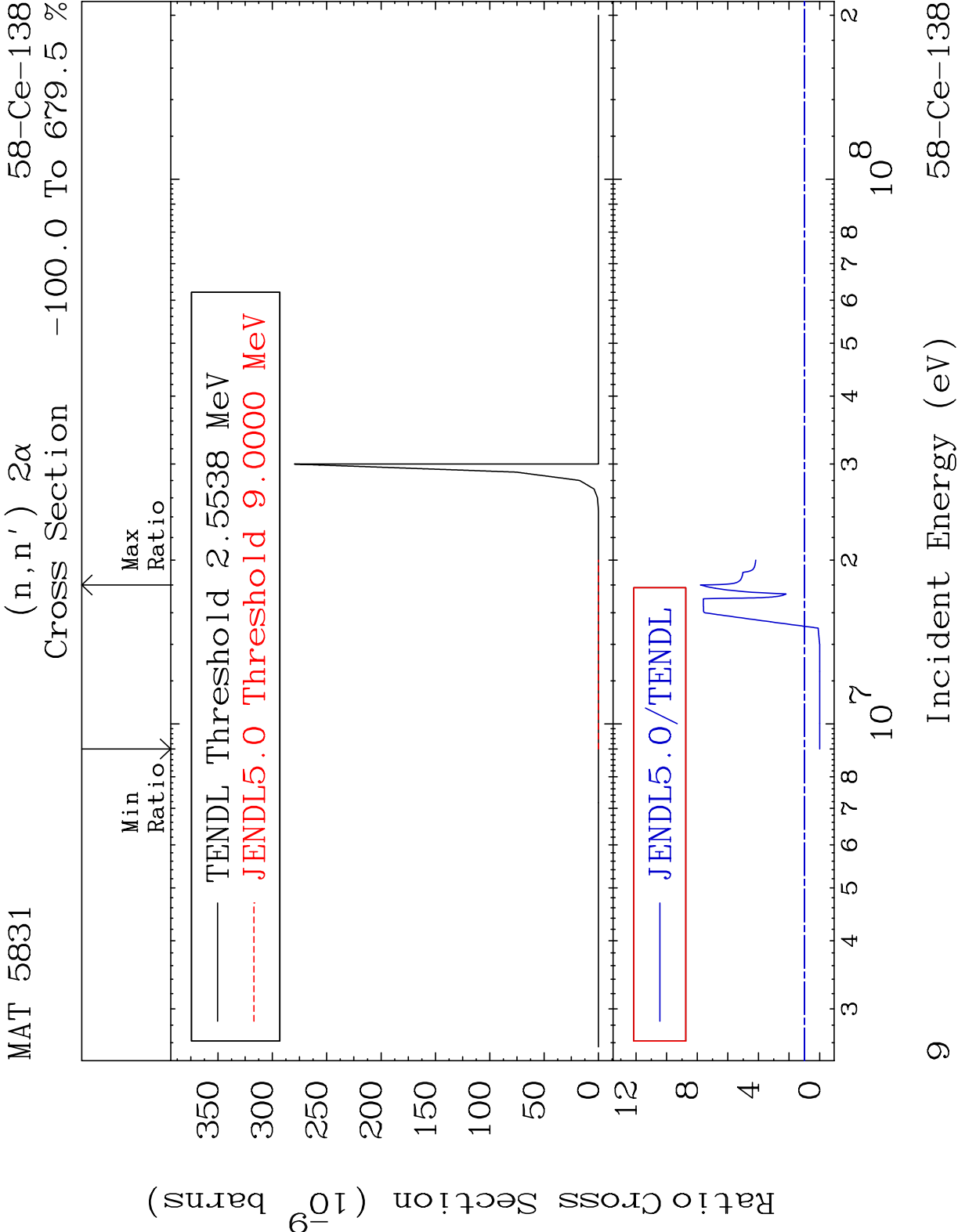
$$(n, 2n) \propto$$

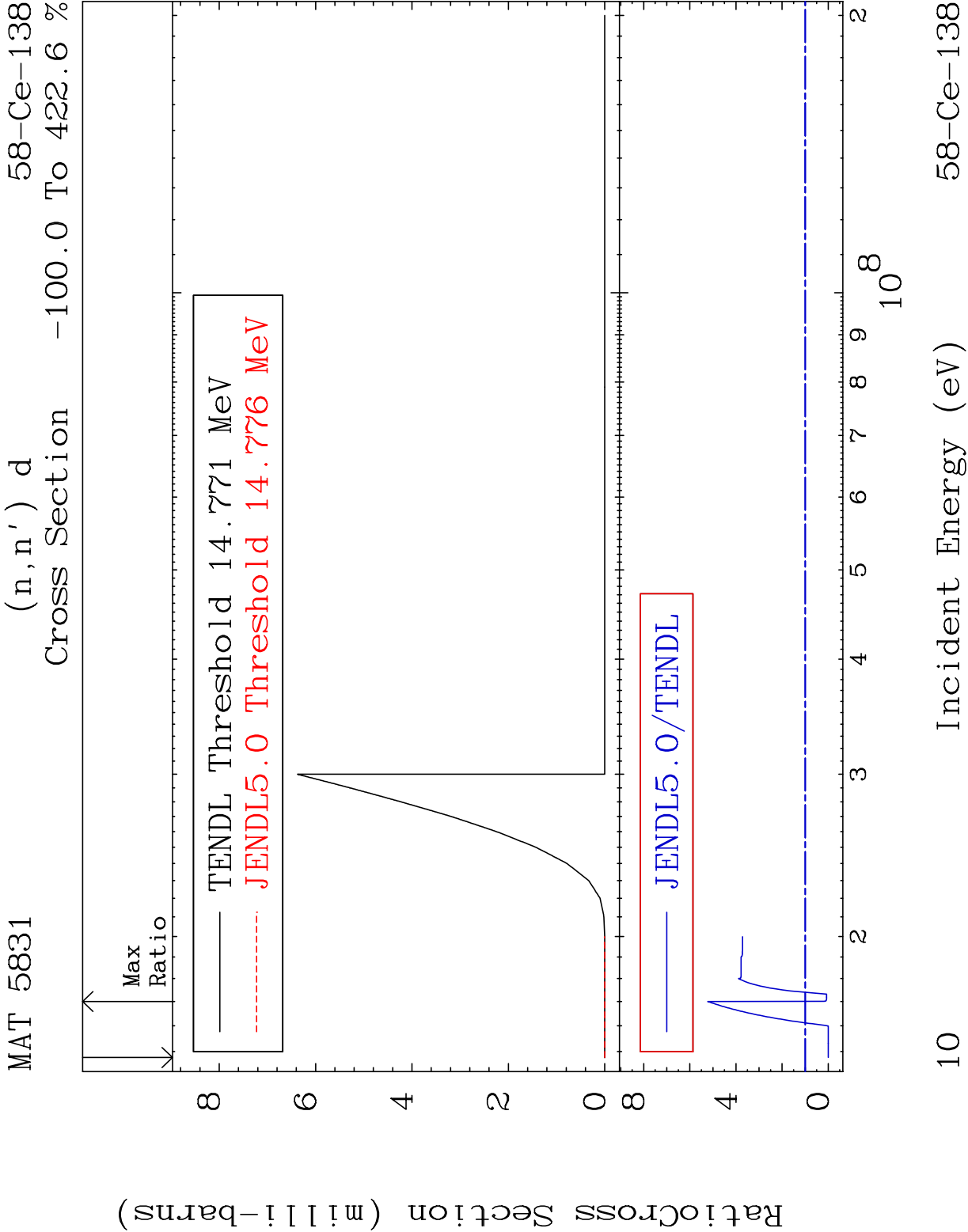
58-Ce-138

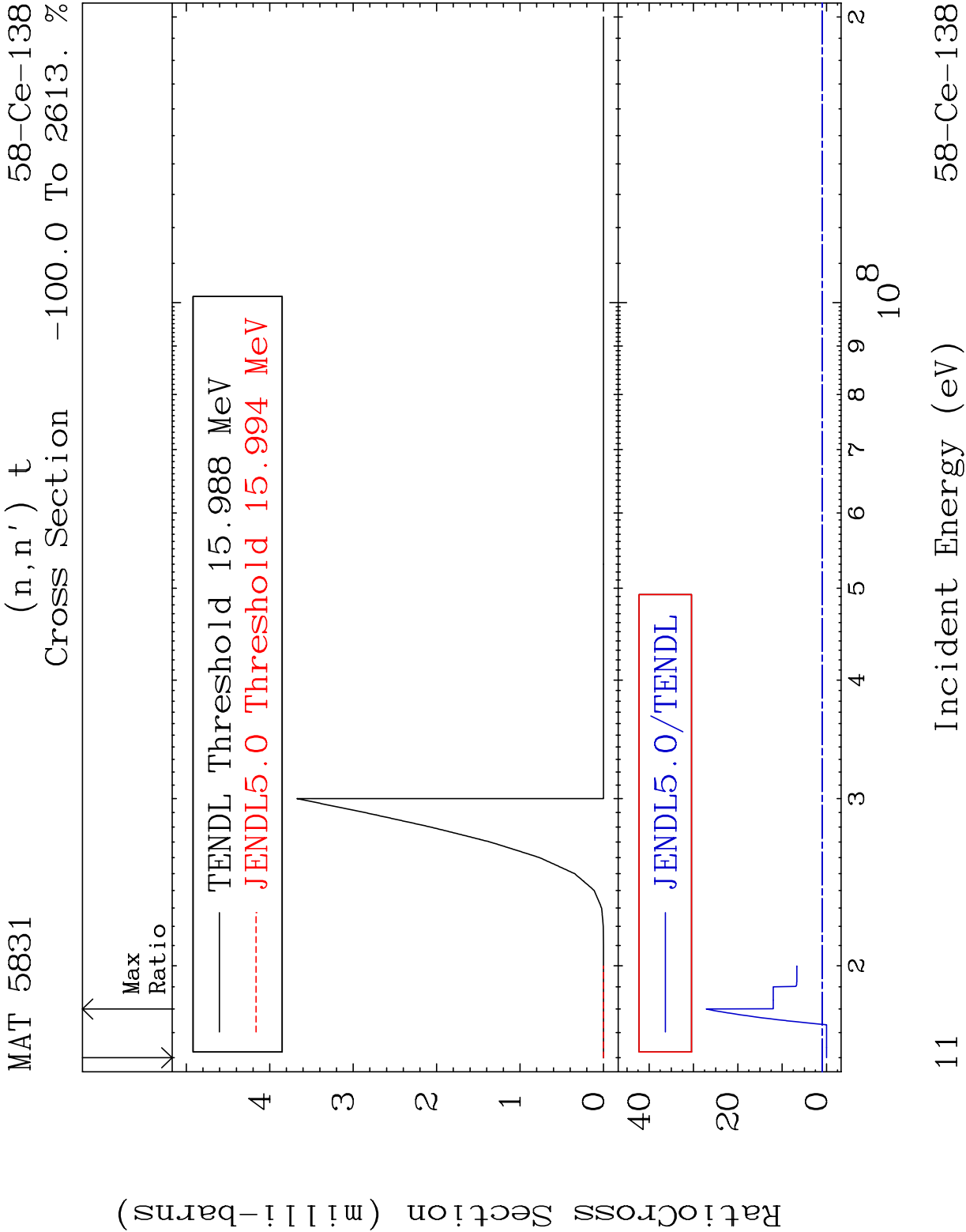
Cross Section	-100.0 To -3.729%

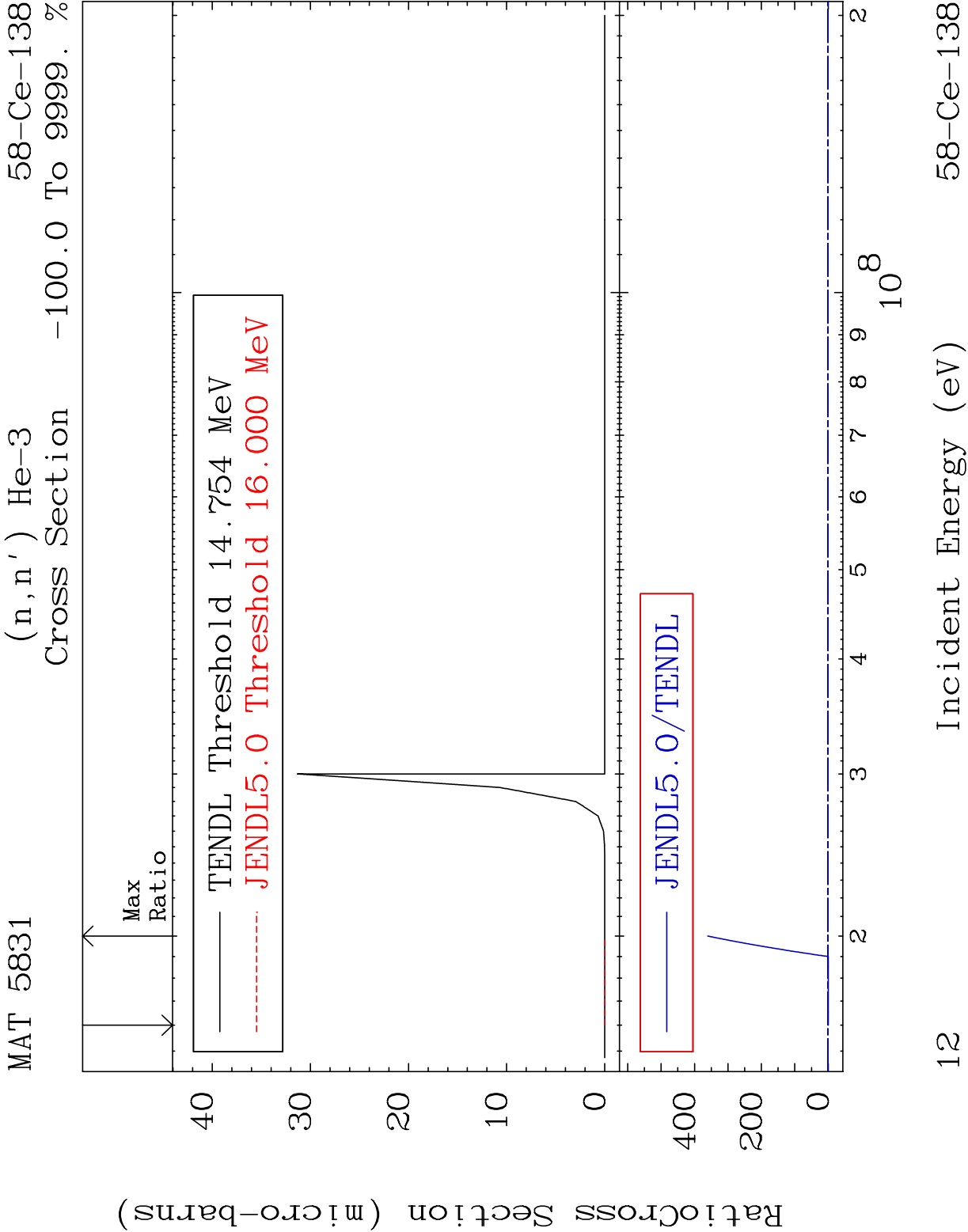


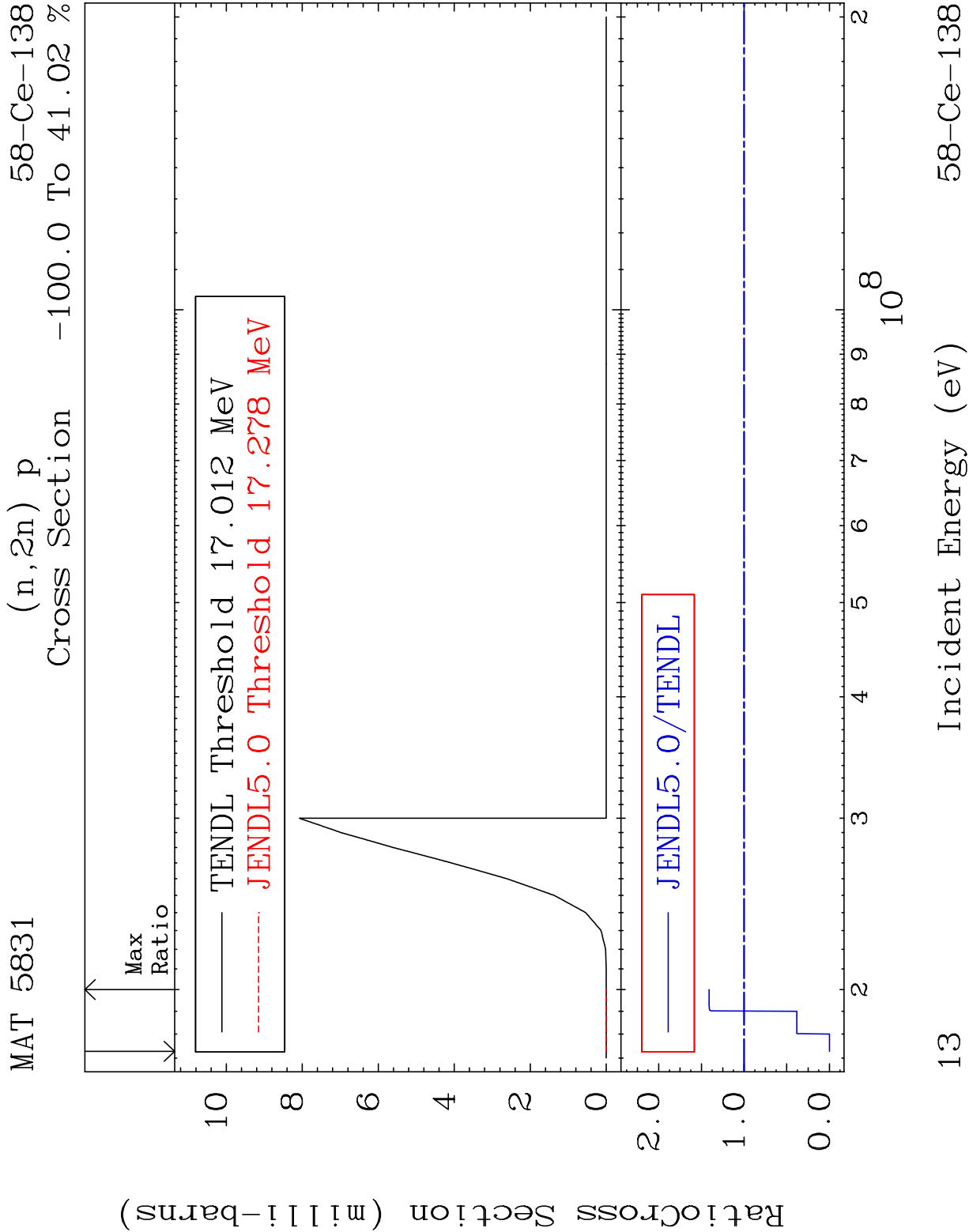


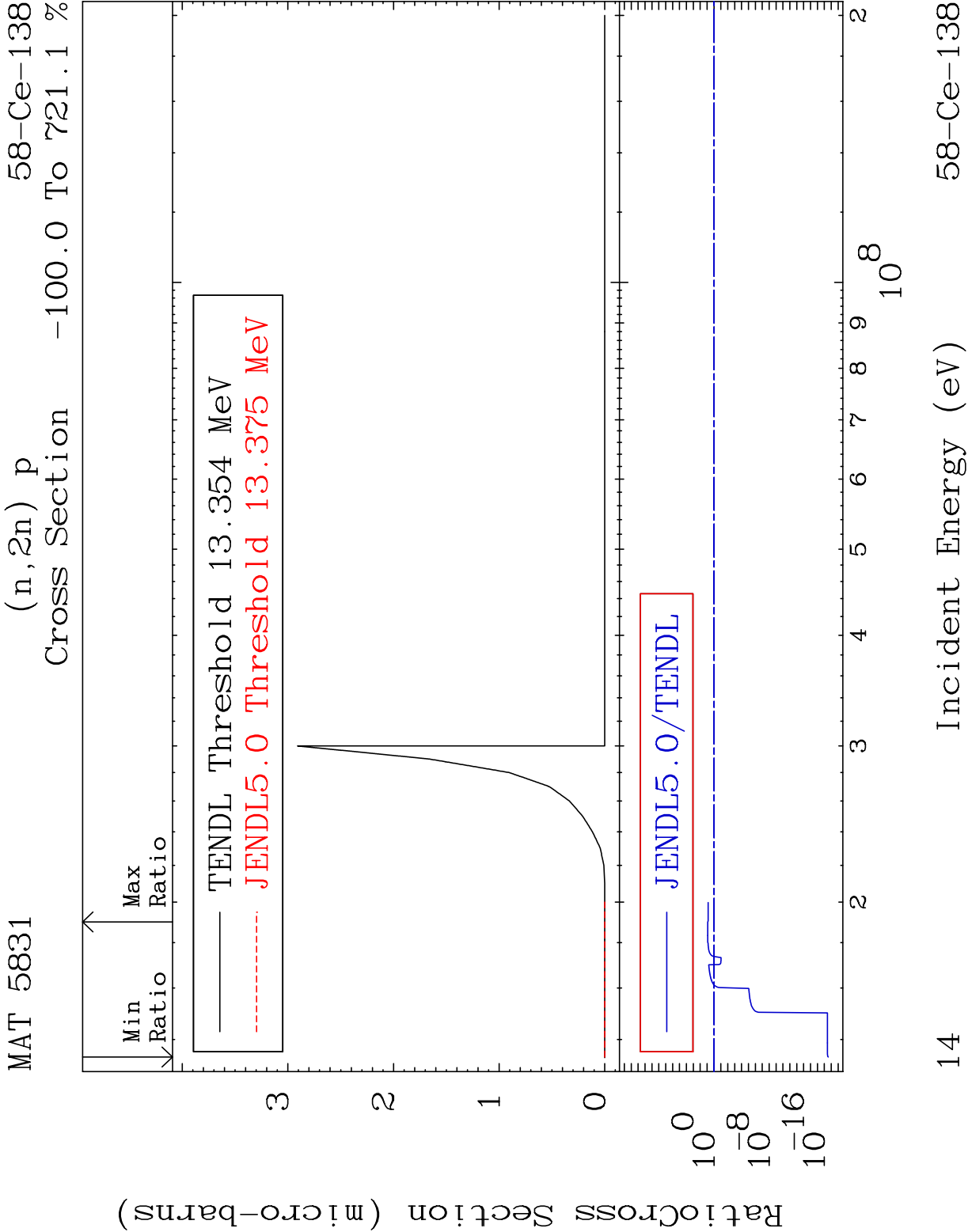


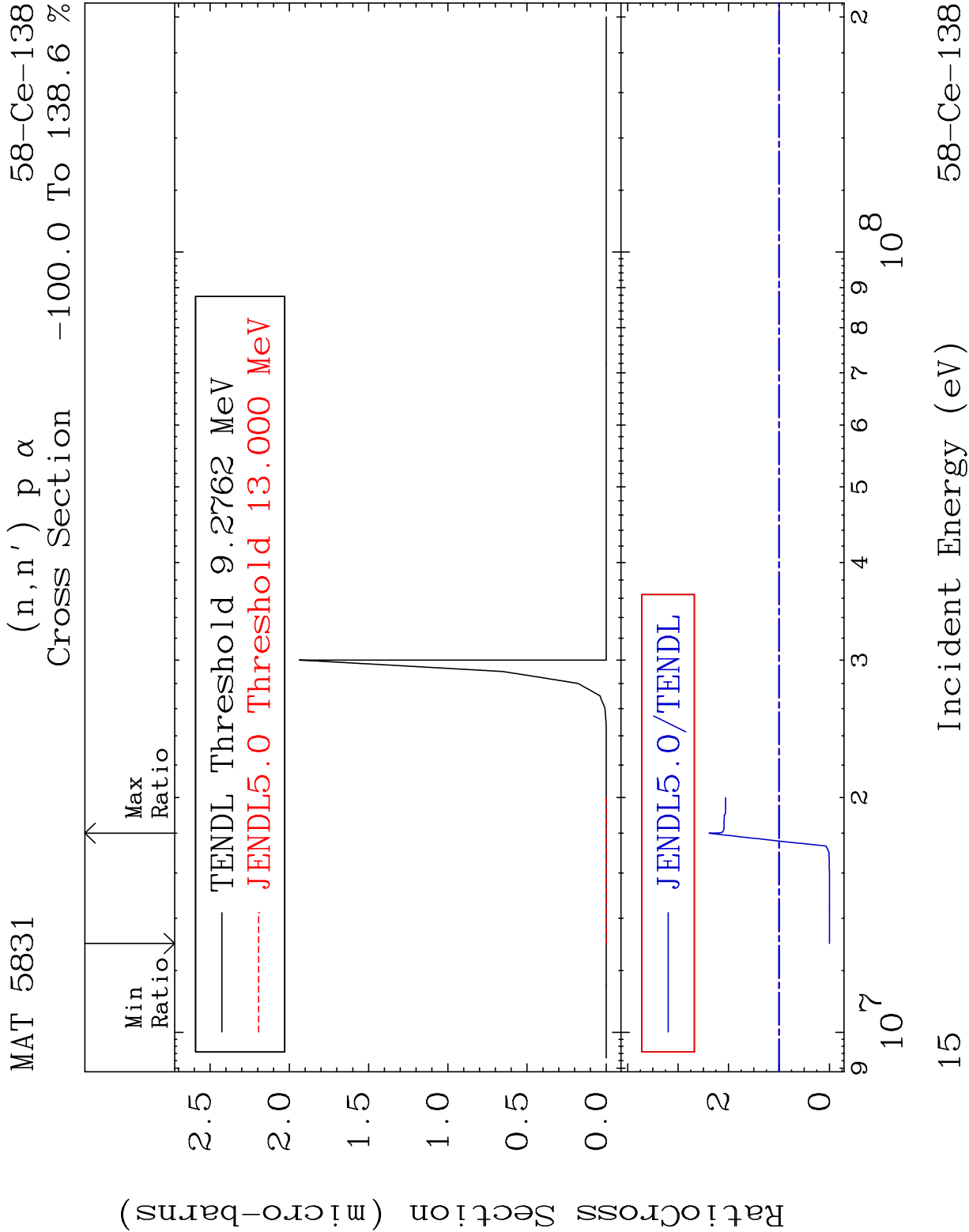




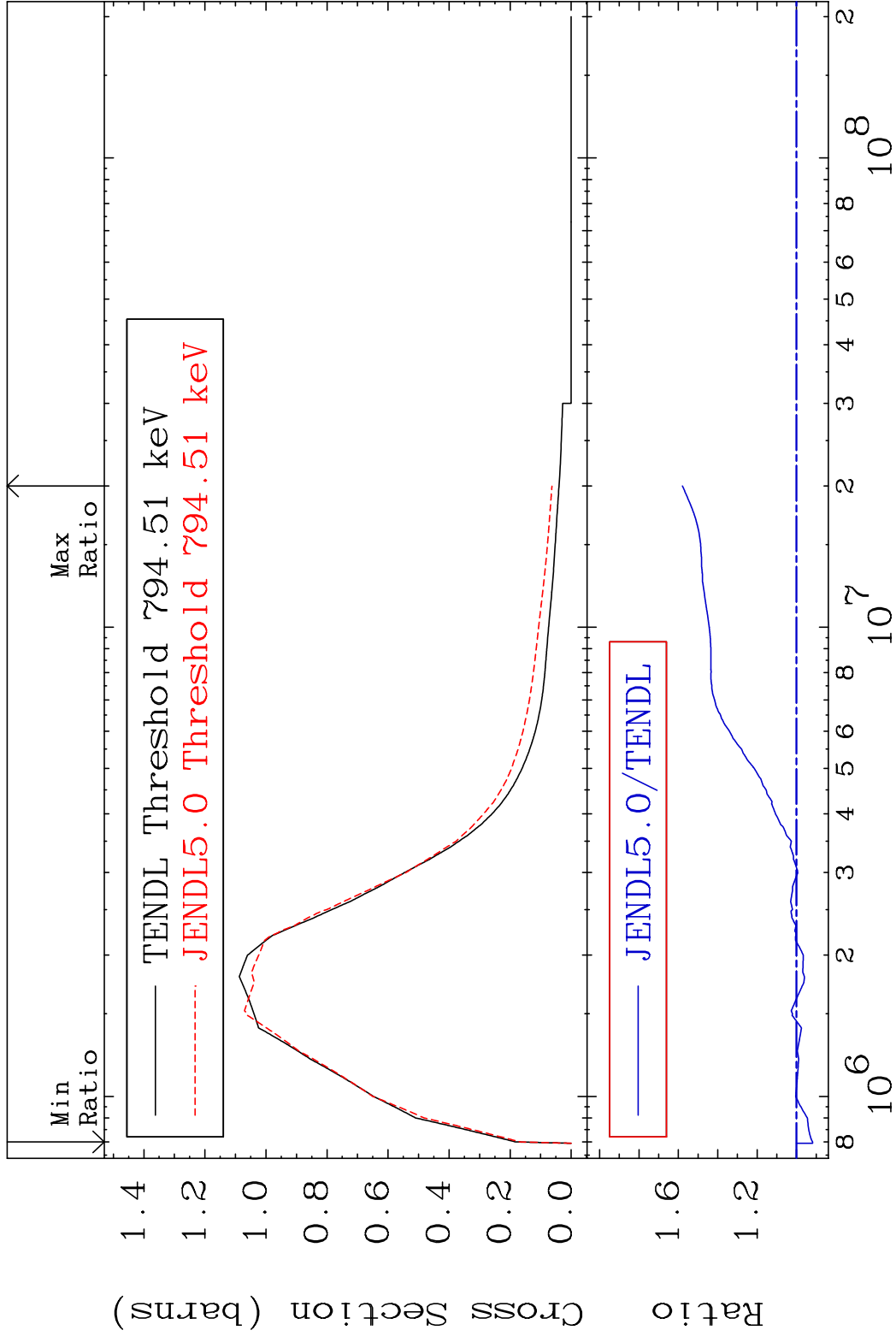






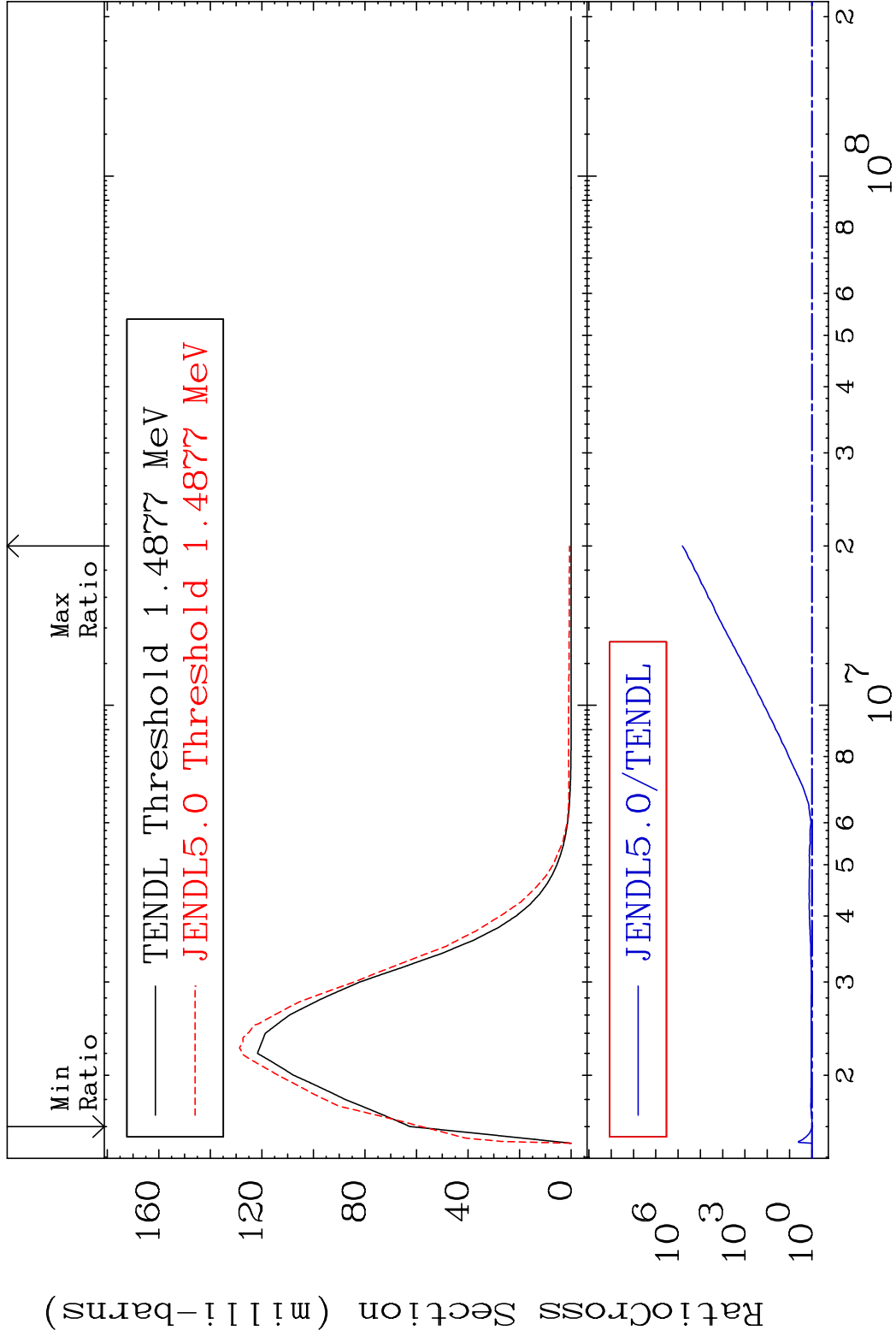


MAT 5831 MT= 51 (n,n') Level 58-Ce-138
Cross Section -8.154 To 57.97 %

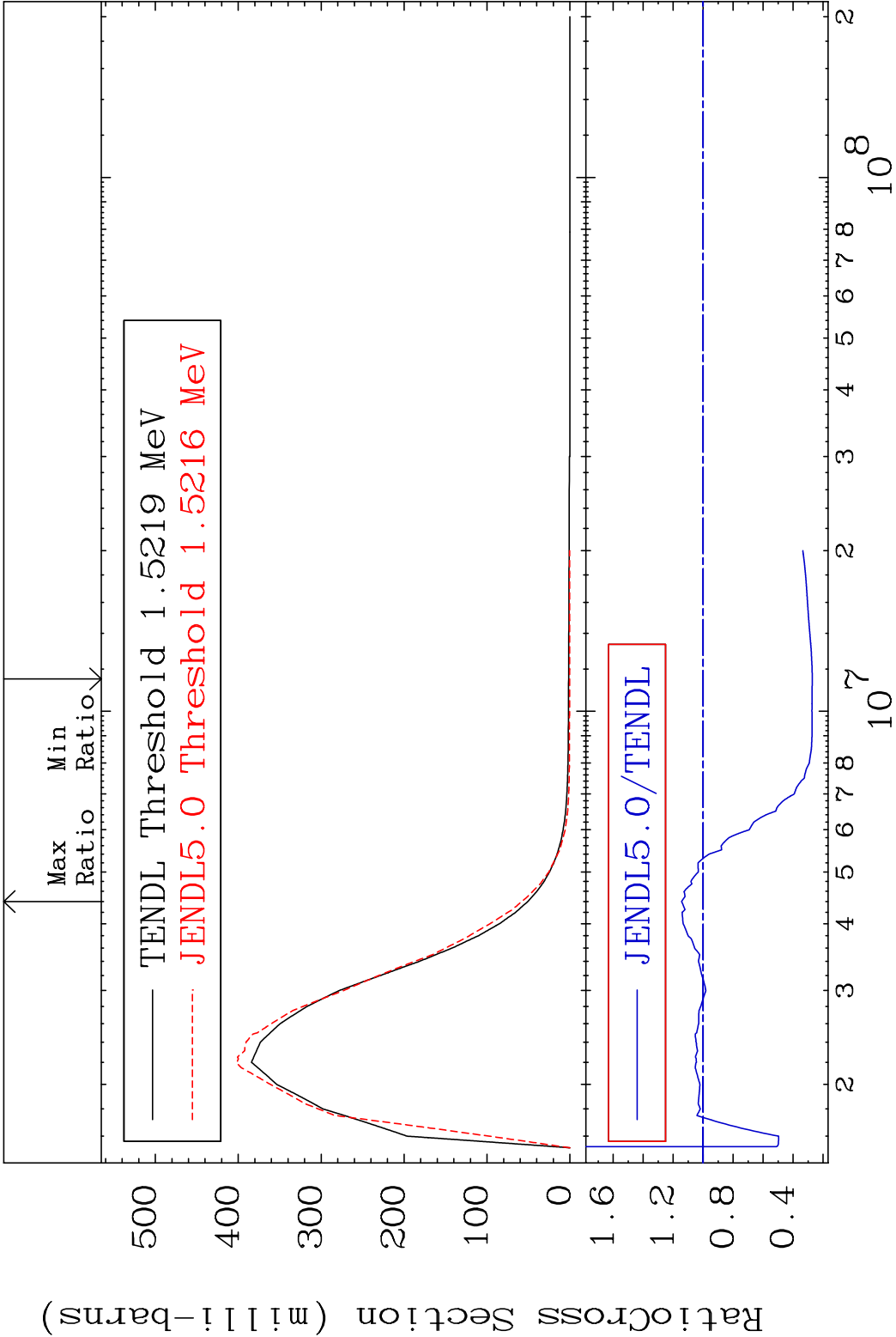


16 Incident Energy (eV) 58-Ce-138

MAT 5831 MT= 52 (n,n') Level 58-Ce-138
Cross Section -7.205 To 9999. %



MAT 5831 MT= 53 (n,n') Level 58-Ce-138
Cross Section -72.74 To 14.41 %



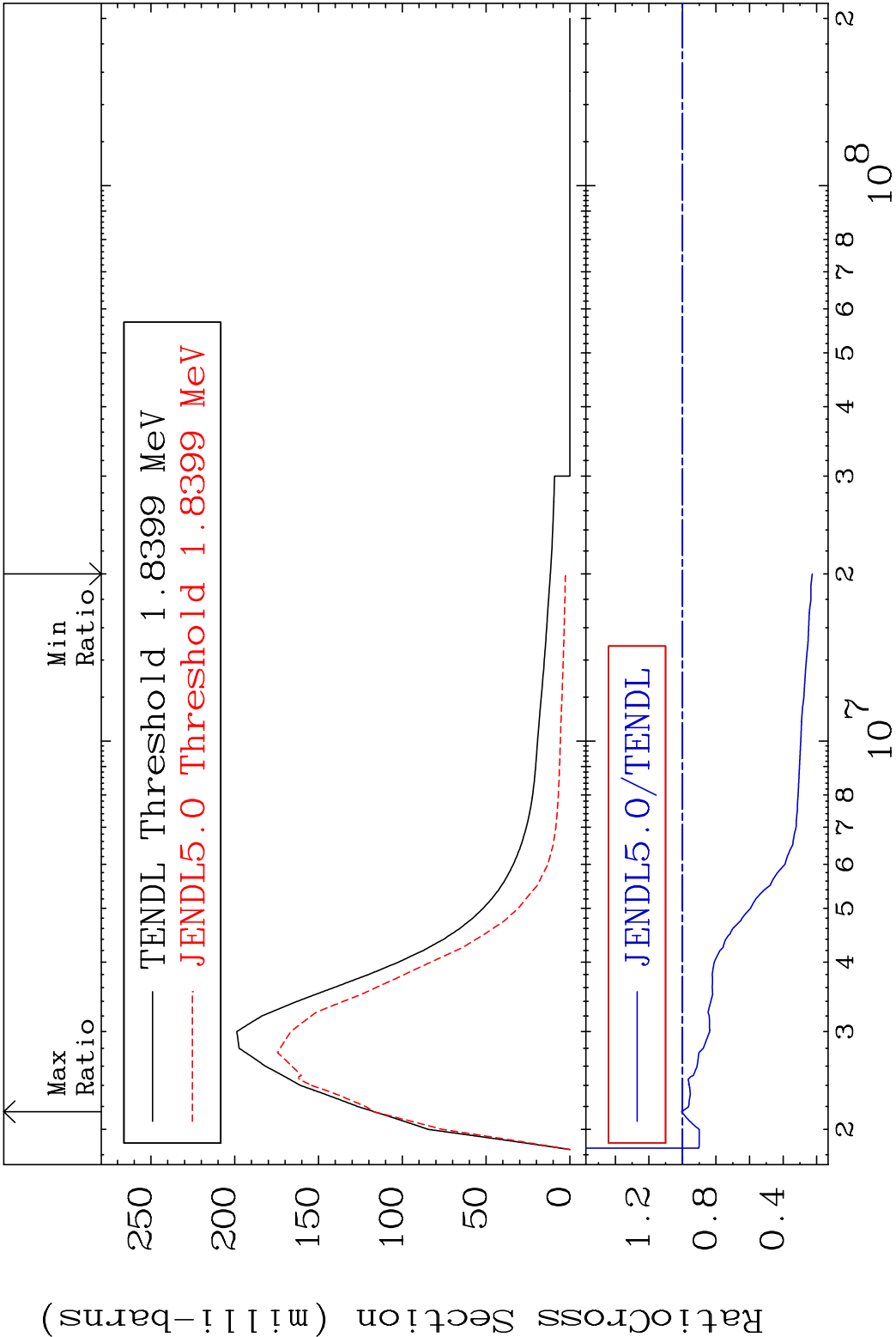
MAT 5831

MT= 54 (n,n') Level

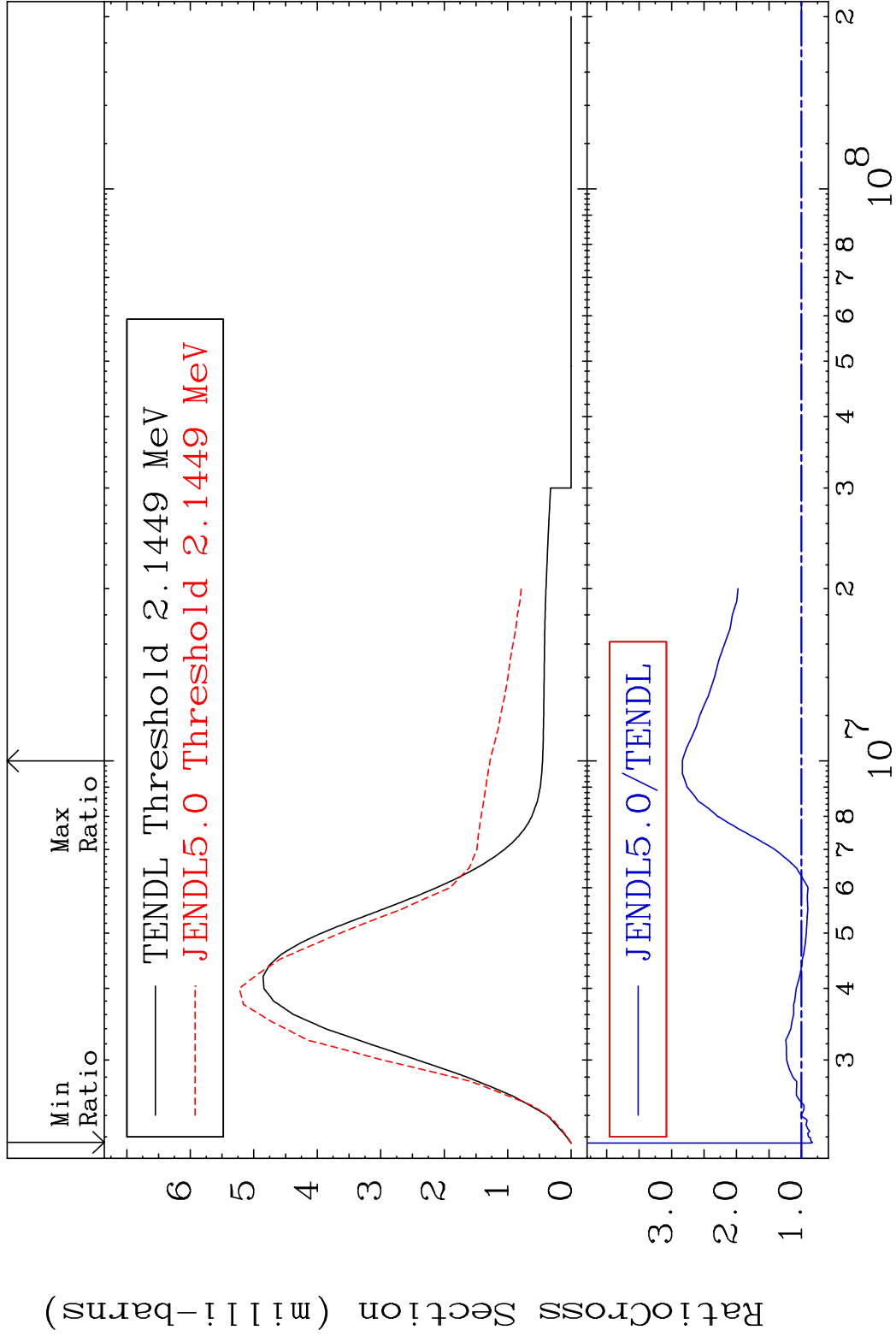
58-Ce-138

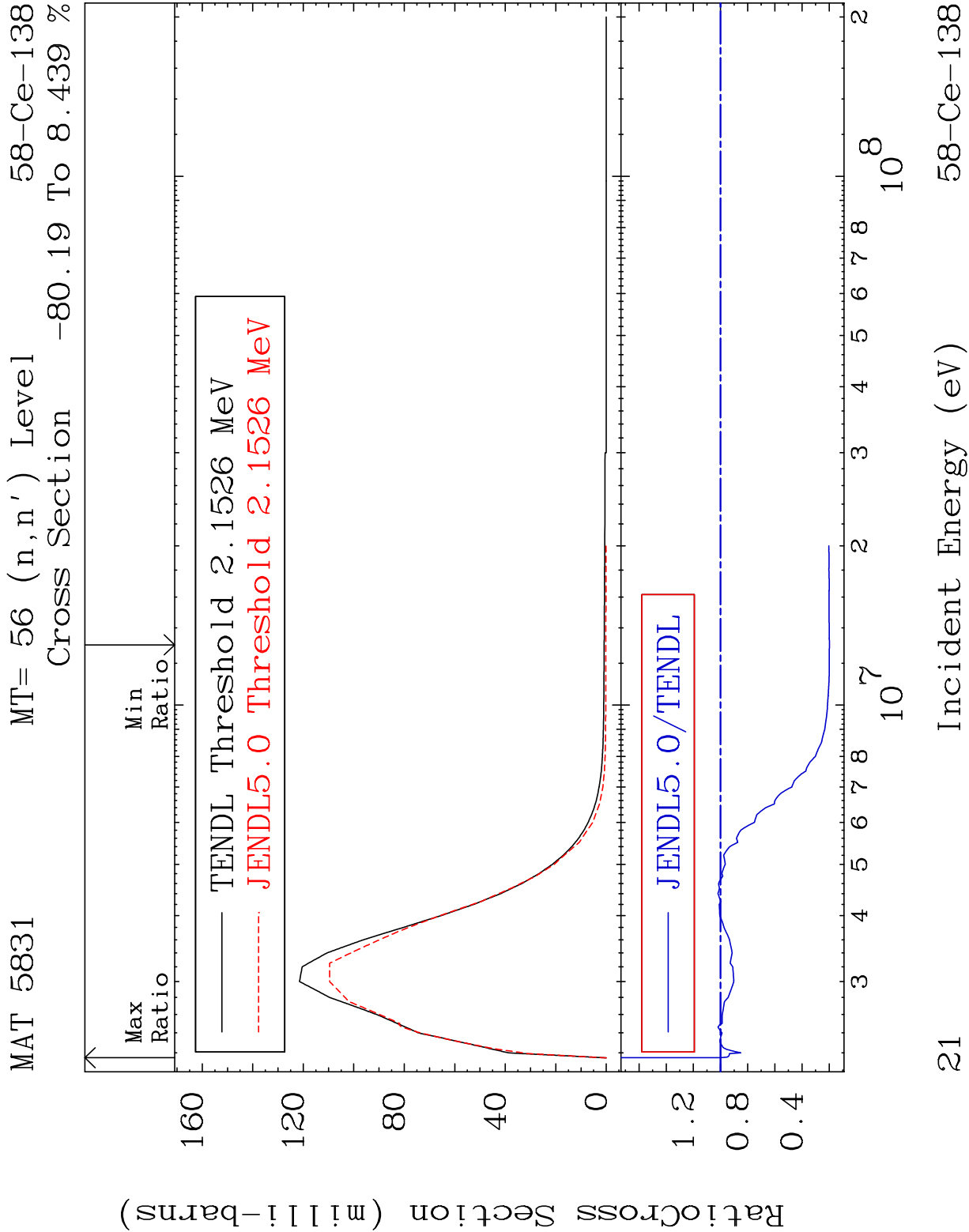
Cross Section

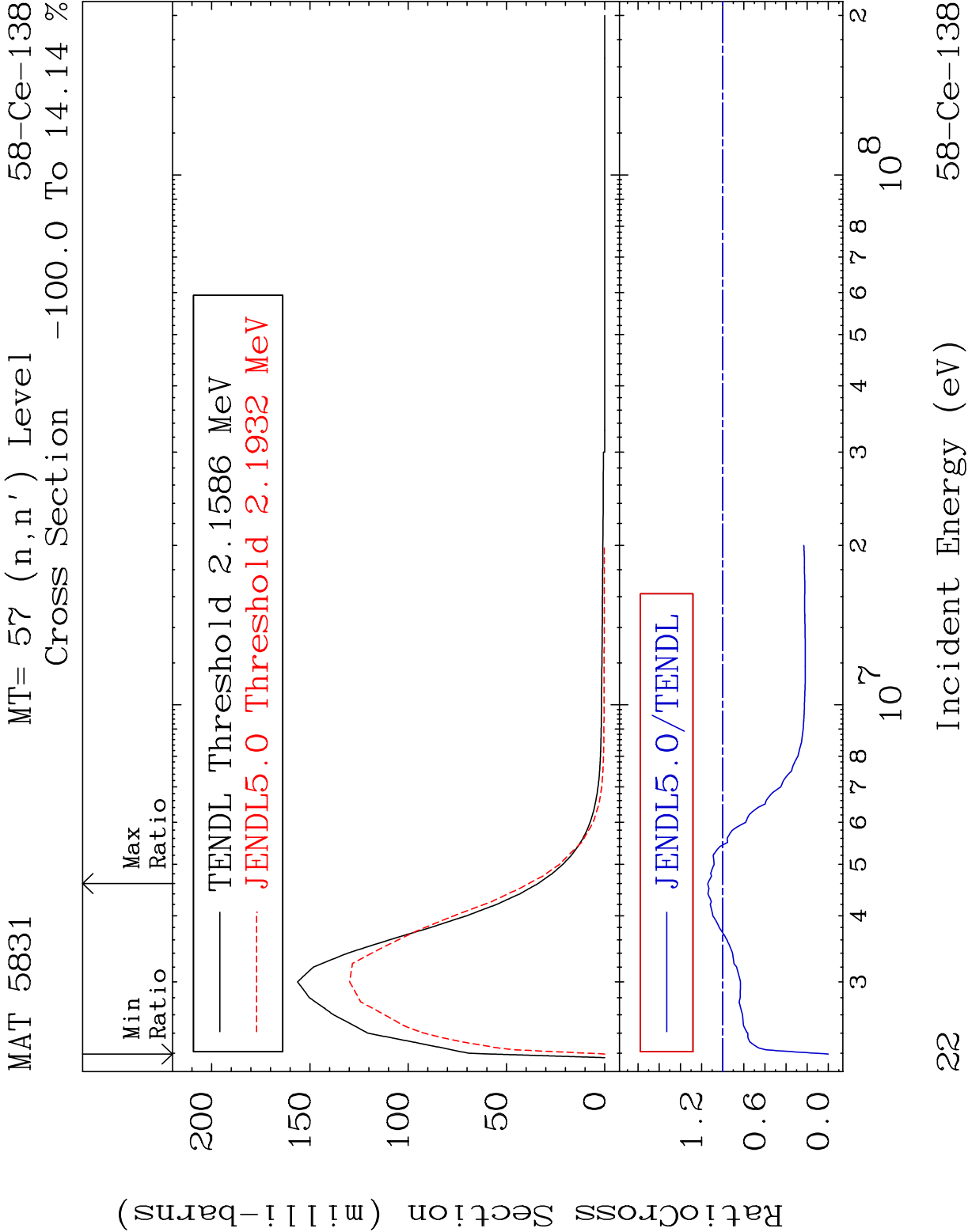
-77.34 To 0.538 %



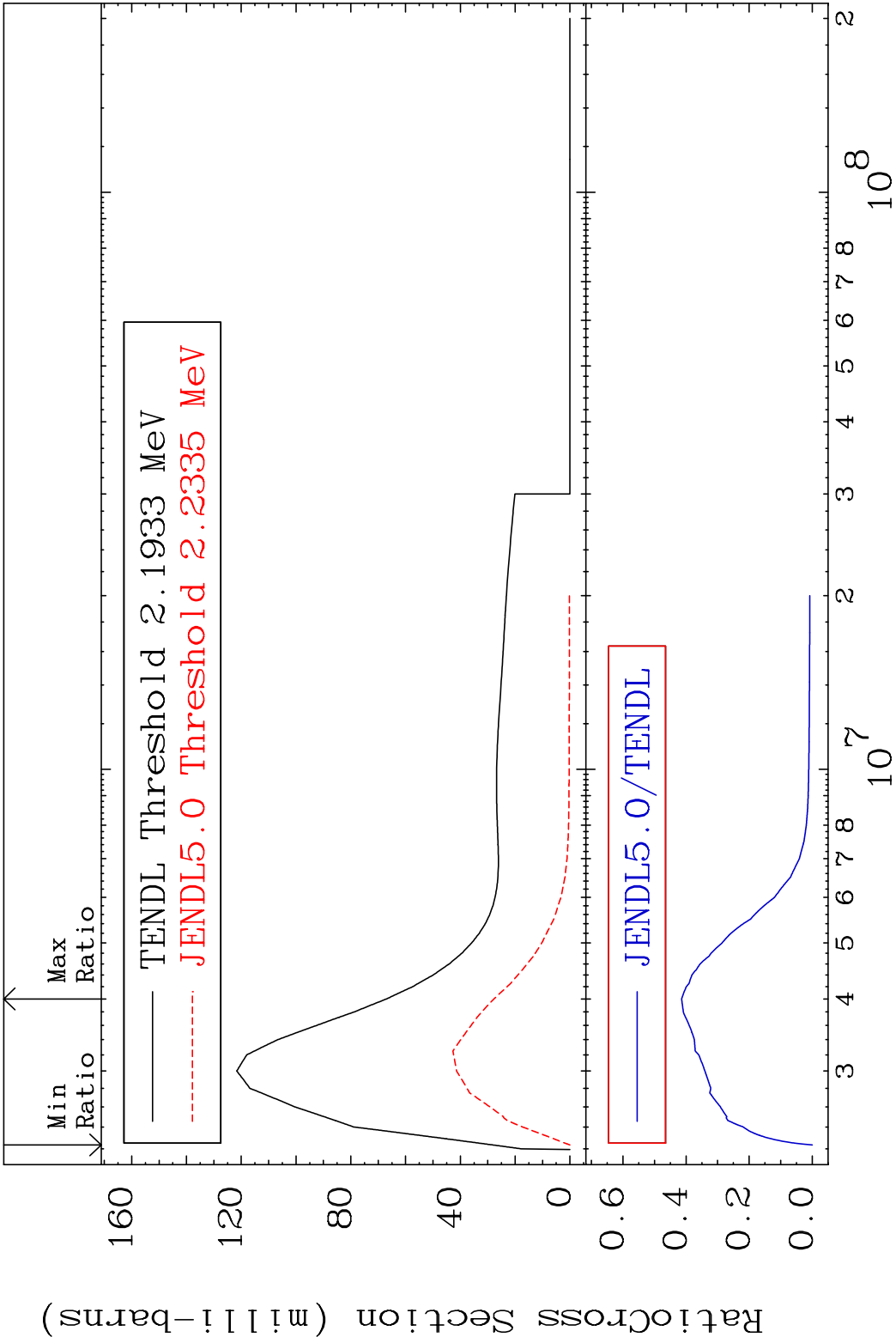
MAT 5831 MT= 55 (n,n') Level 58-Ce-138
Cross Section -17.18 To 183.4 %



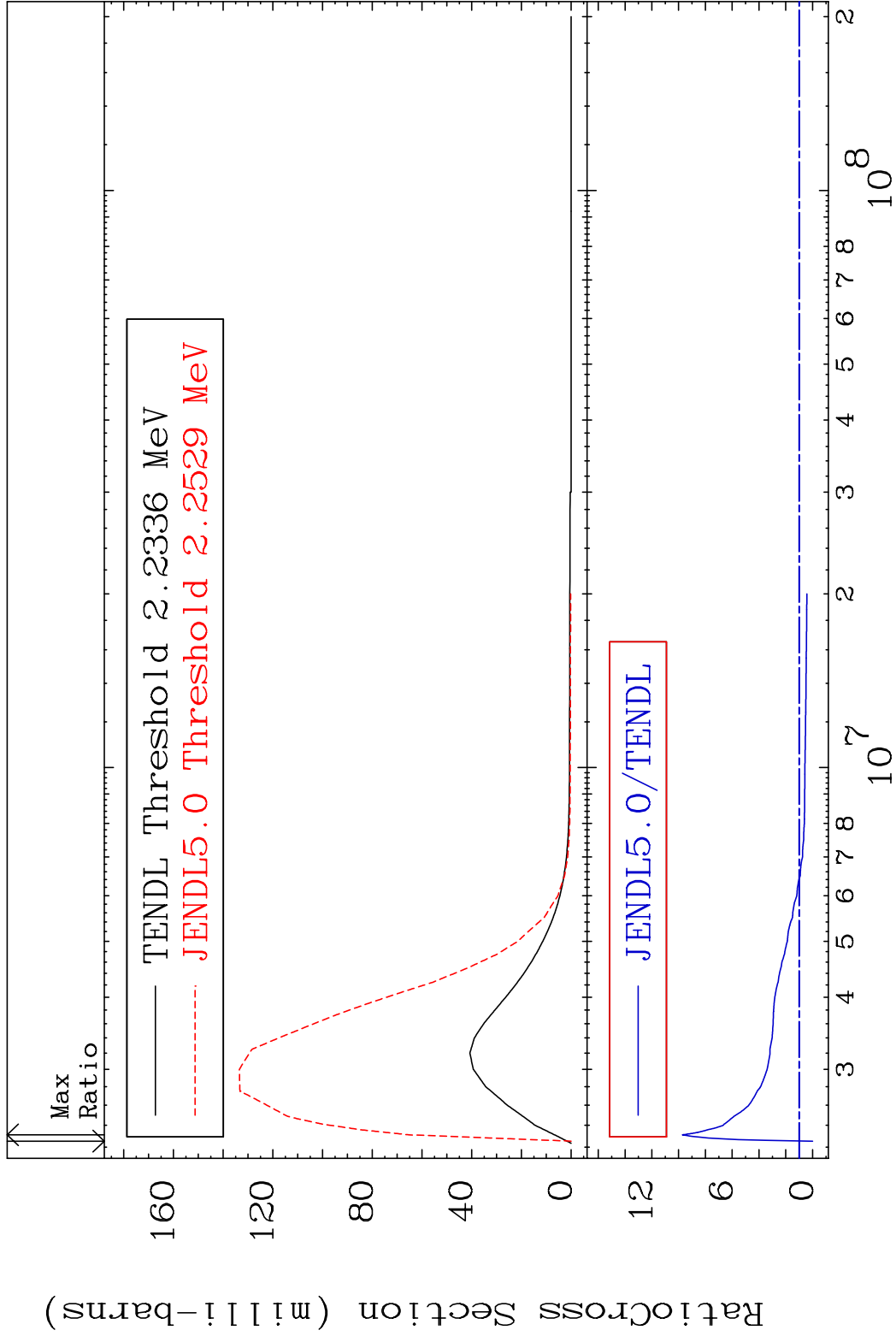




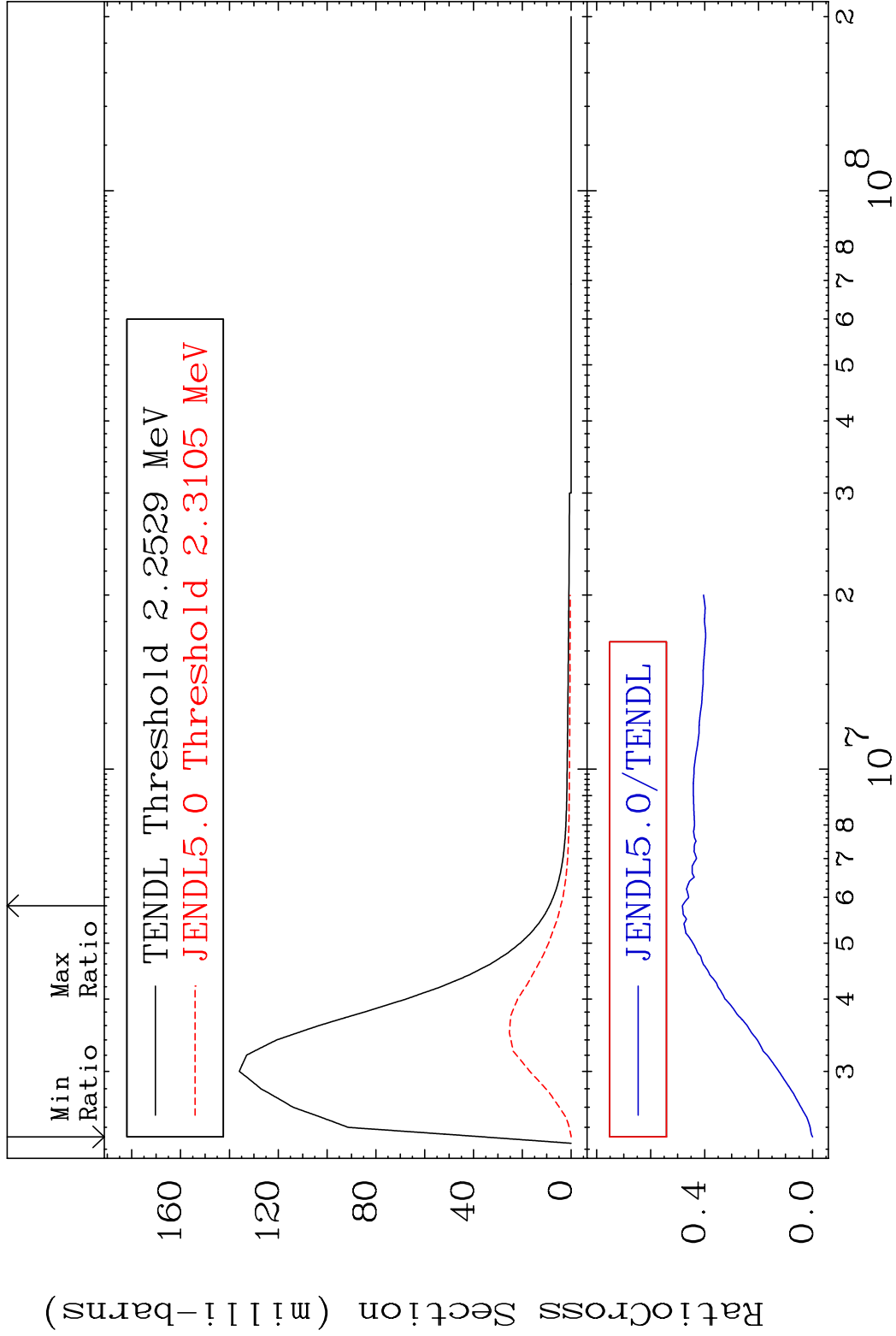
MAT 5831 MT= 58 (n,n') Level 58-Ce-138
 Cross Section -100.0 To -58.56%



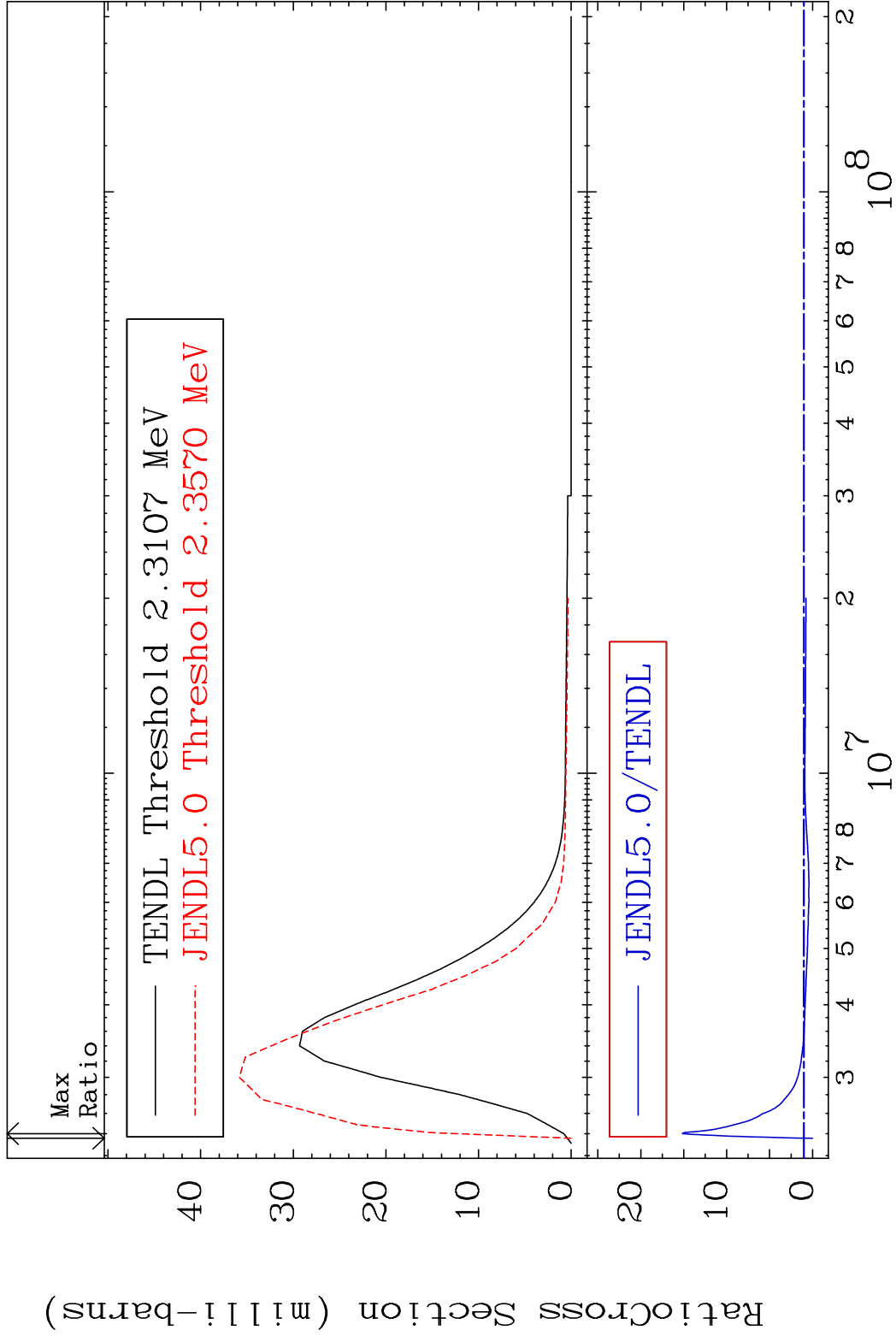
MAT 5831 MT= 59 (n,n') Level 58-Ce-138
Cross Section -100.0 To 872.1 %



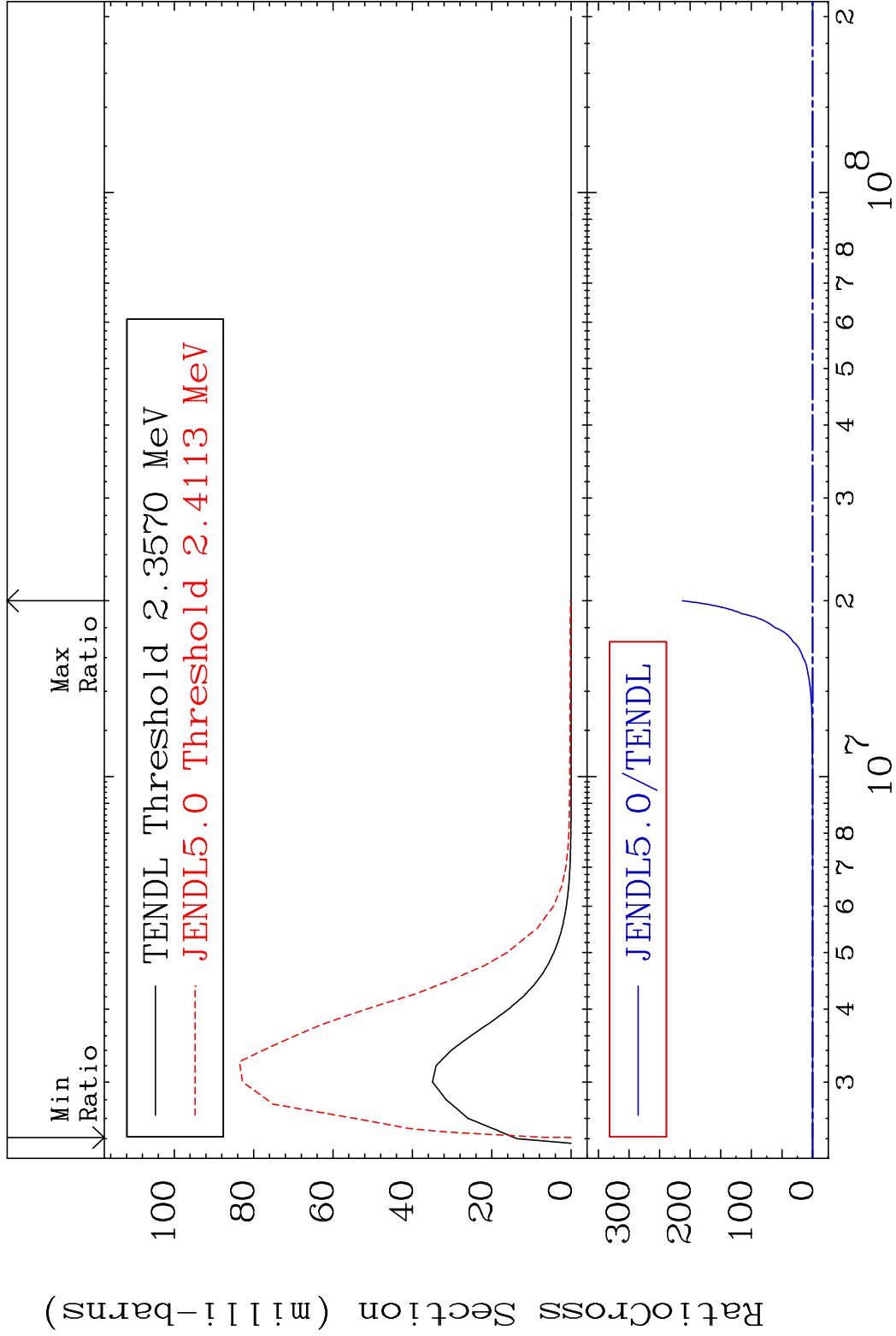
MAT 5831 MT= 60 (n,n') Level 58-Ce-138
Cross Section -100.0 To -51.75%



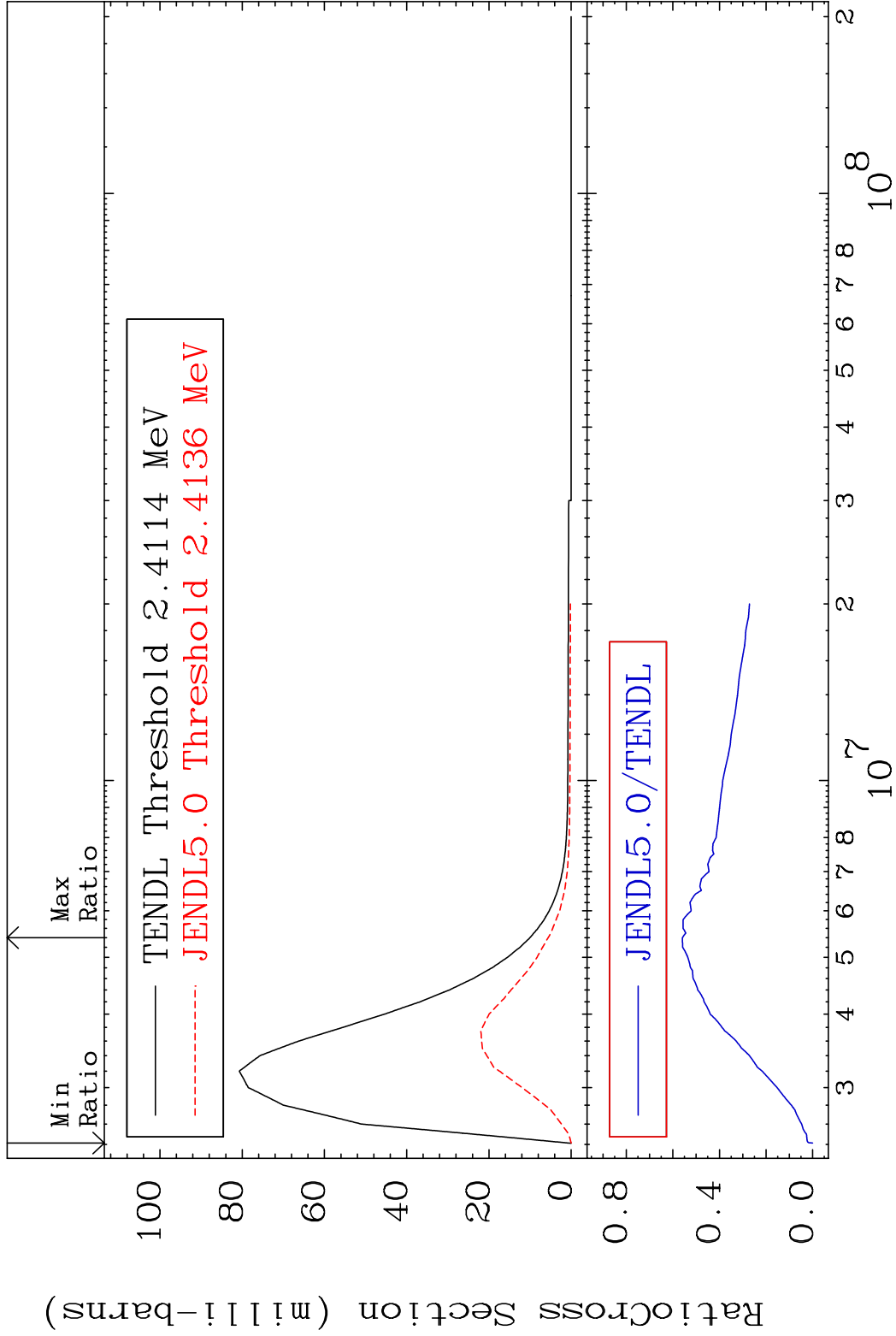
MAT 5831 MT= 61 (n,n') Level 58-Ce-138
Cross Section -100.0 To 1416. %



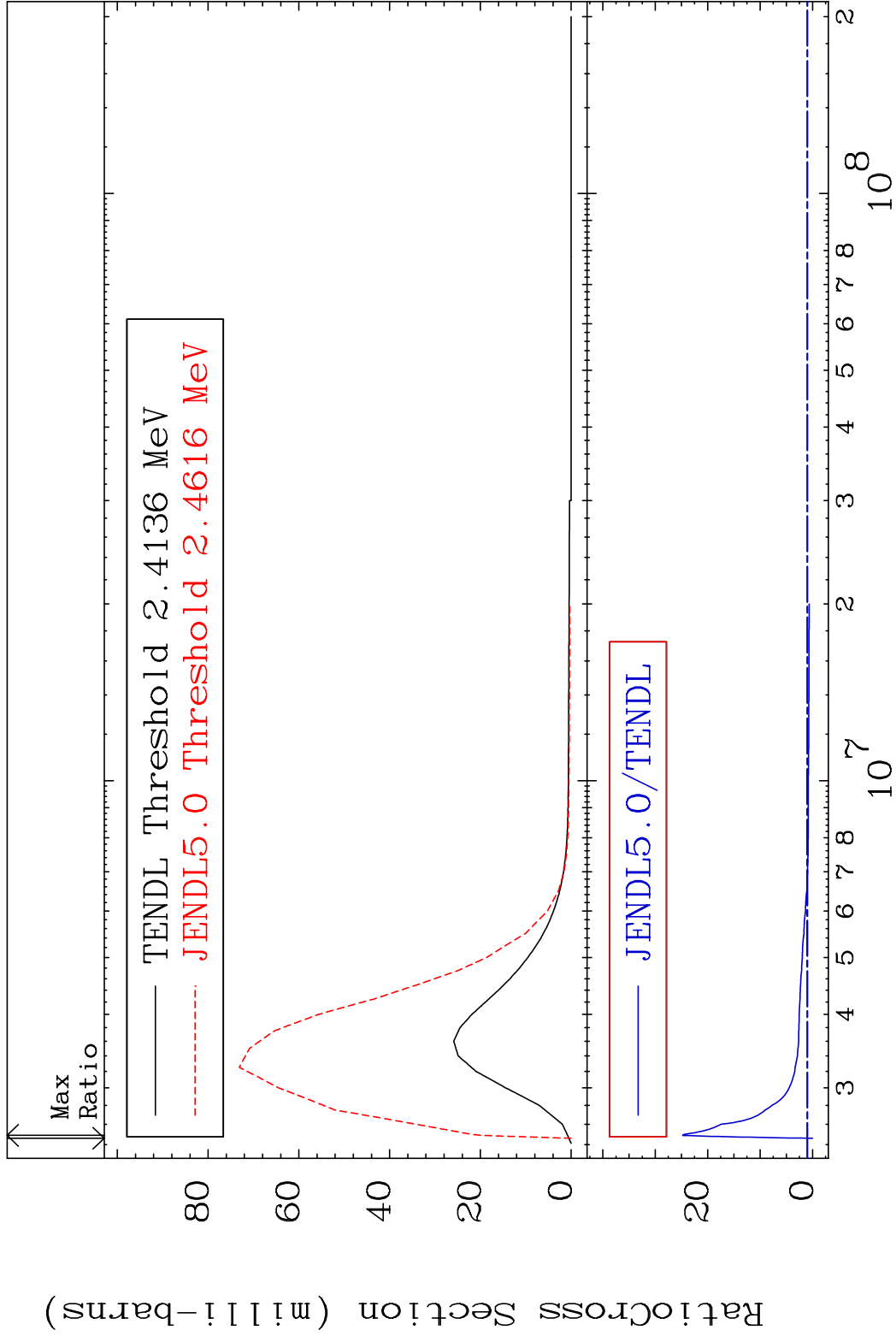
MAT 5831 MT= 62 (n,n') Level 58-Ce-138
Cross Section -100.0 To 9999. %



MAT 5831 MT= 63 (n,n') Level 58-Ce-138
Cross Section -100.0 To -44.06%

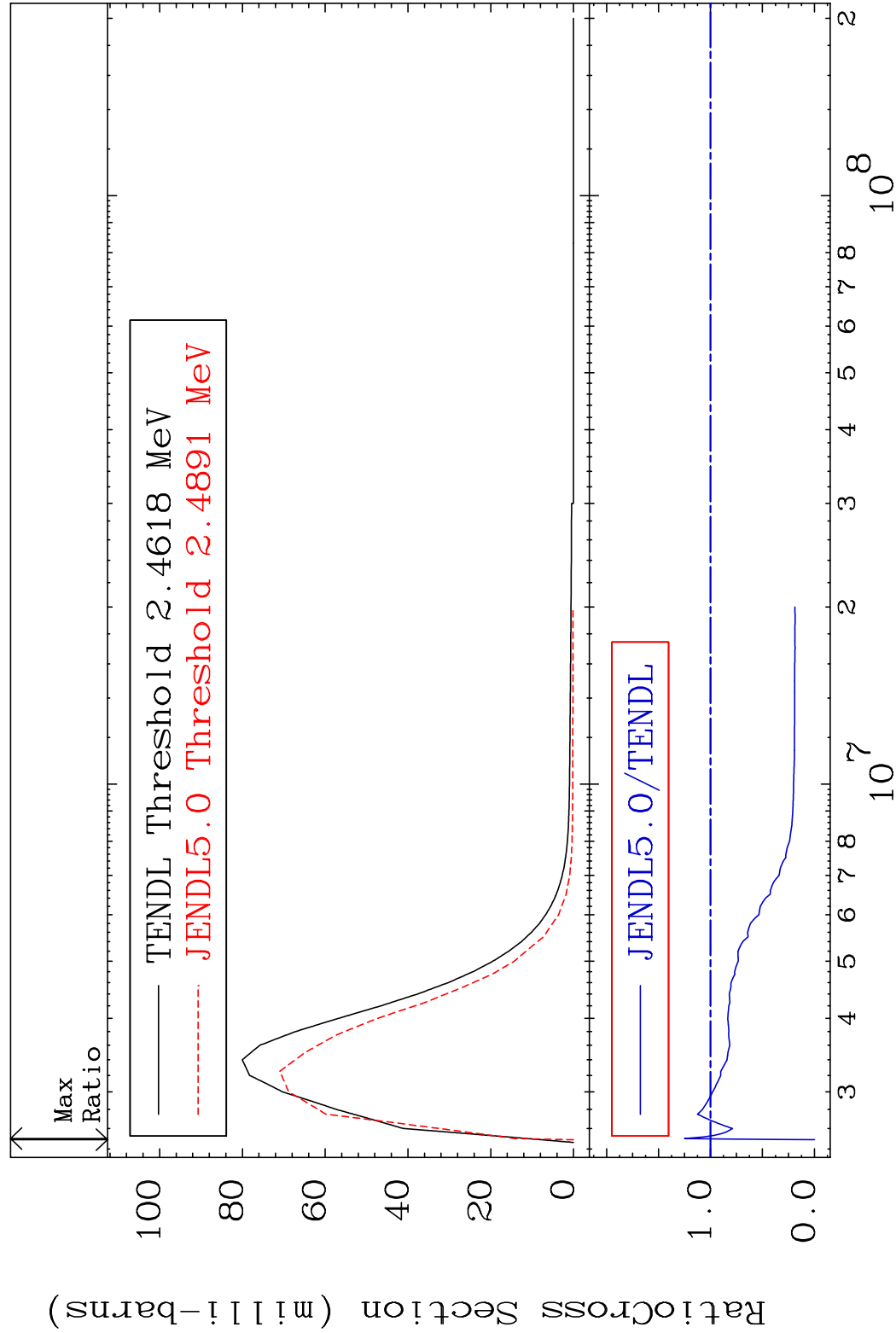


MAT 5831 MT= 64 (n,n') Level 58-Ce-138
Cross Section -100.0 To 2383. %



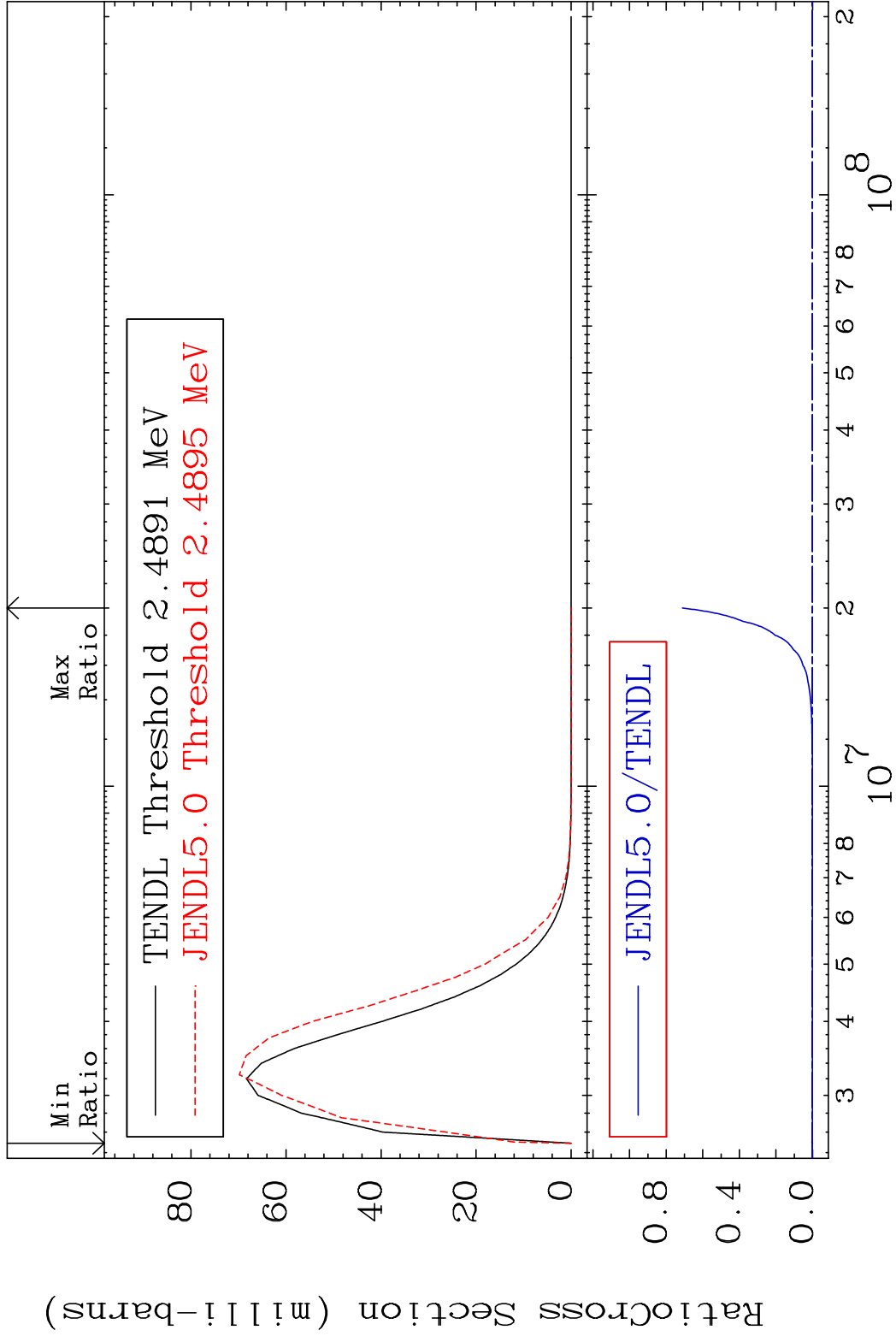
MAT 5831 MT= 65 (n,n') Level 58-Ce-138

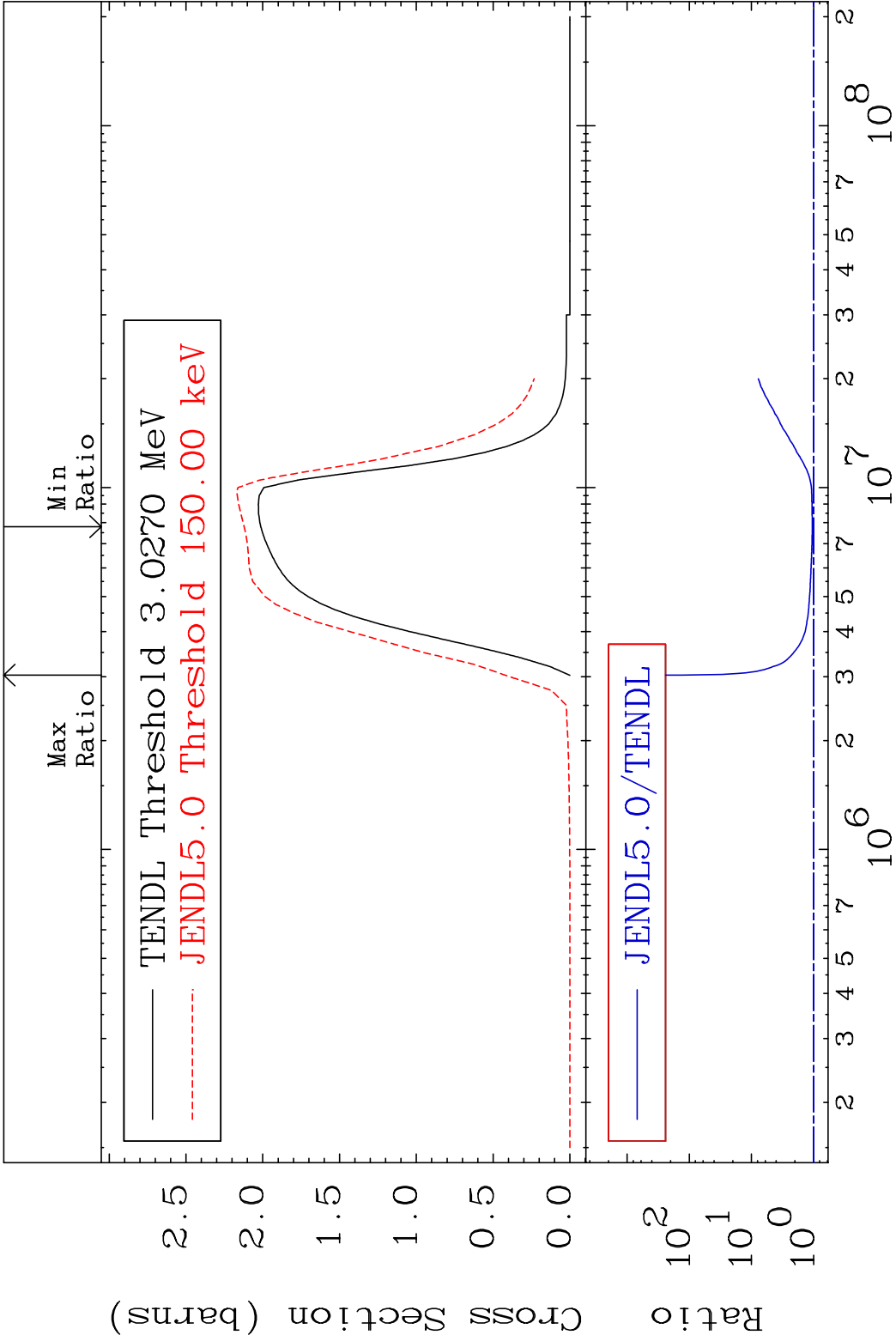
Cross Section -100.0 To 25.04 %



30

MAT 5831 MT= 66 (n,n') Level 58-Ce-138
Cross Section -100.0 To 9999. %



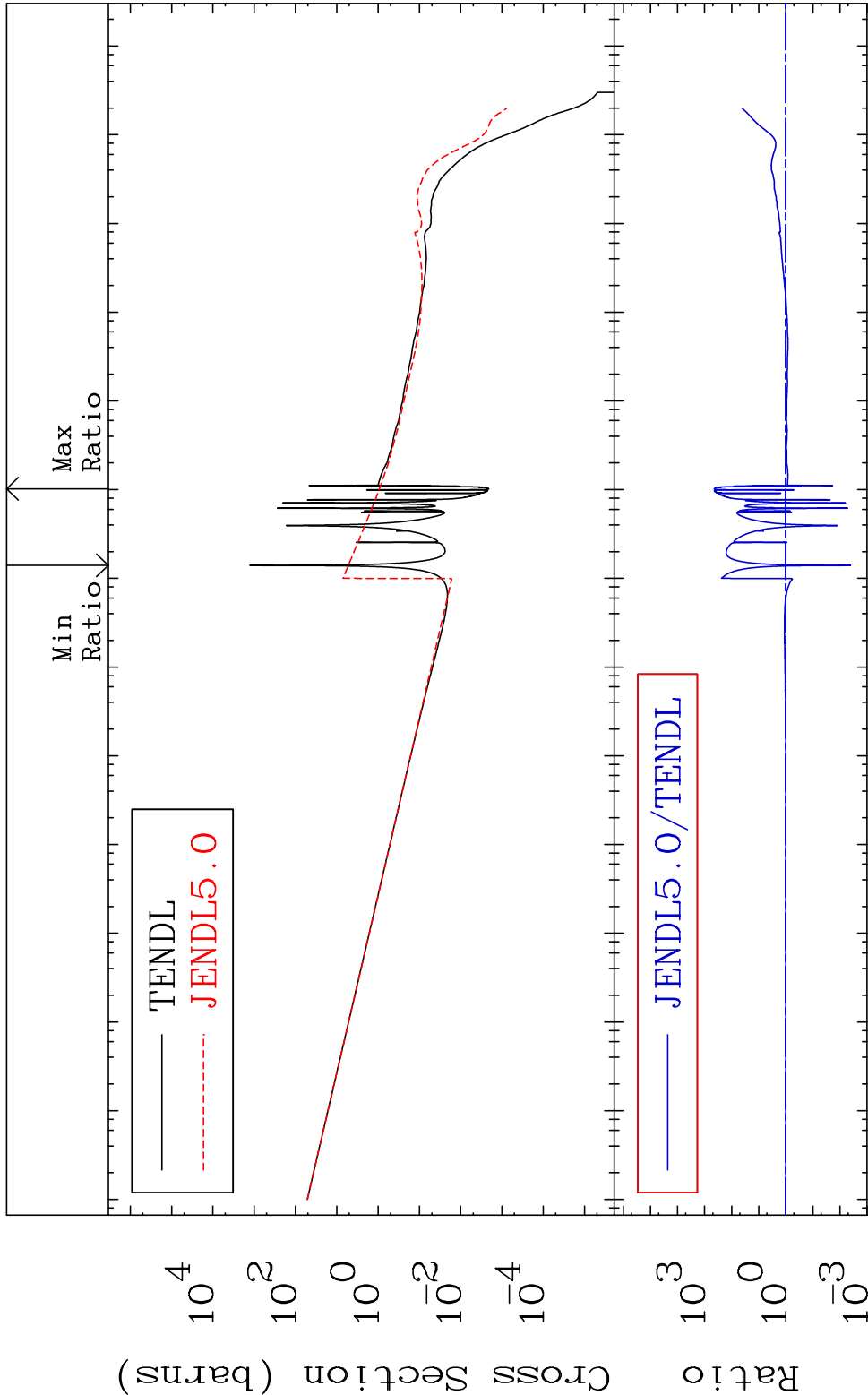


MAT 5831

(n, γ)

58-Ce-138

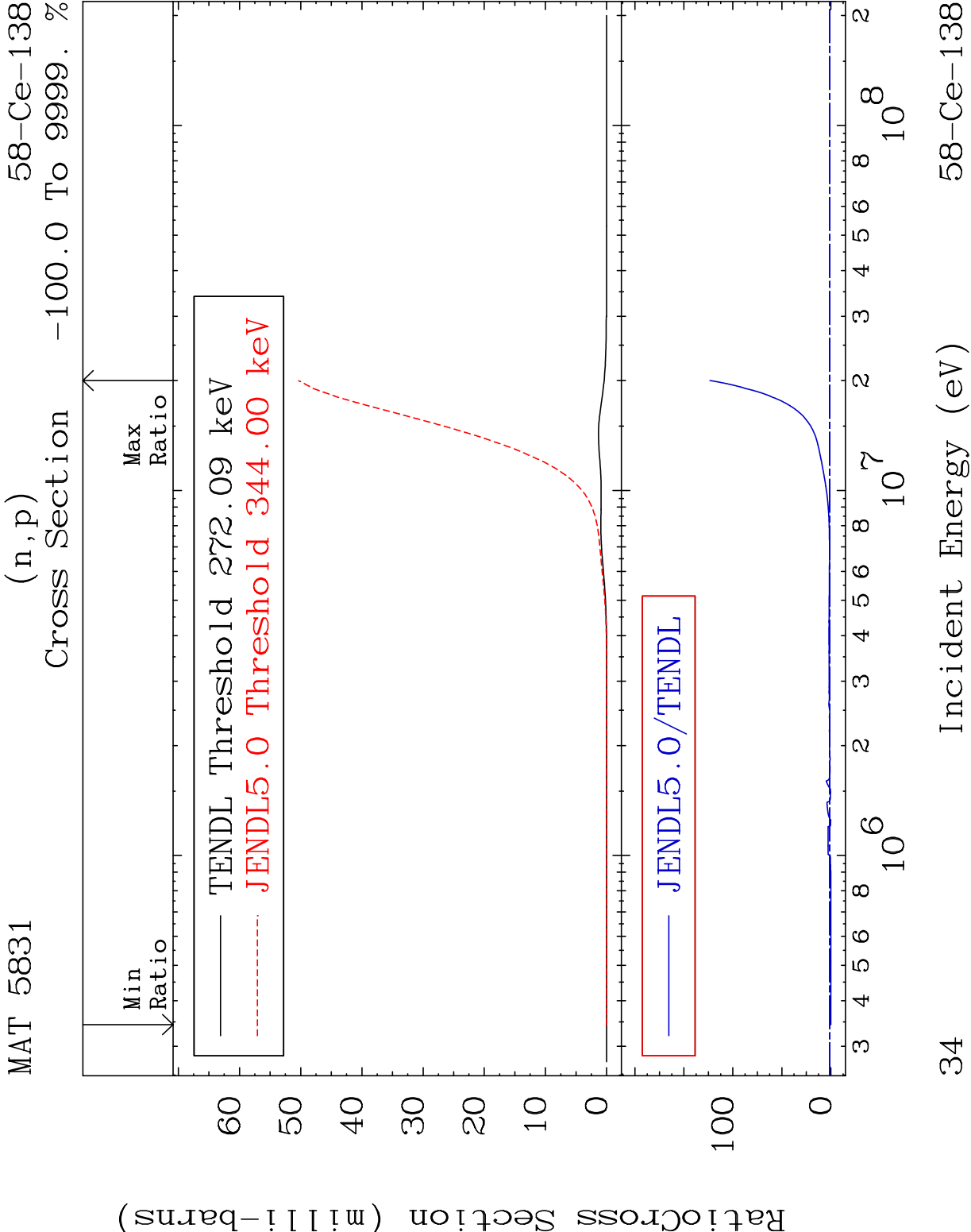
Cross Section -99.59 To 9999. %

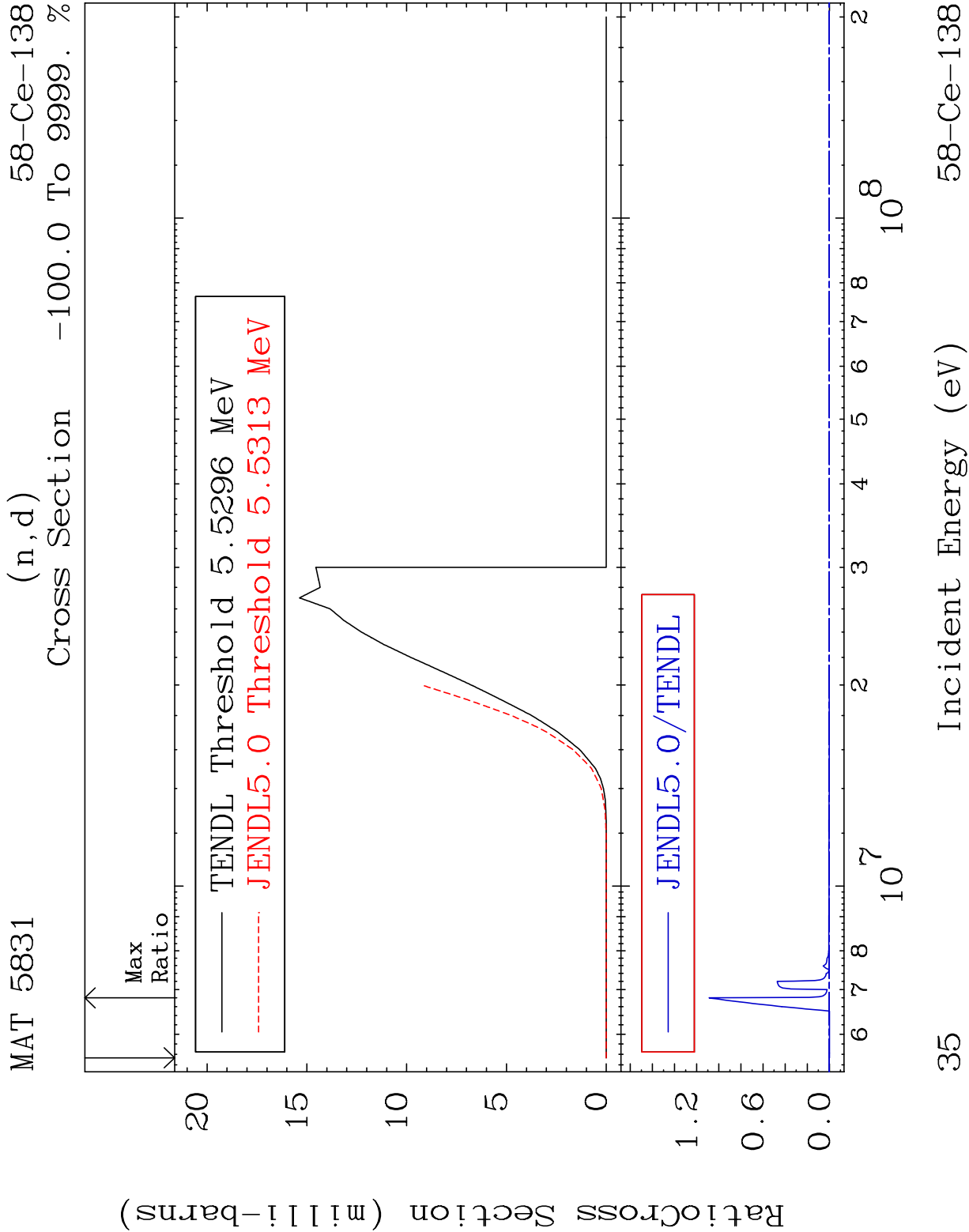


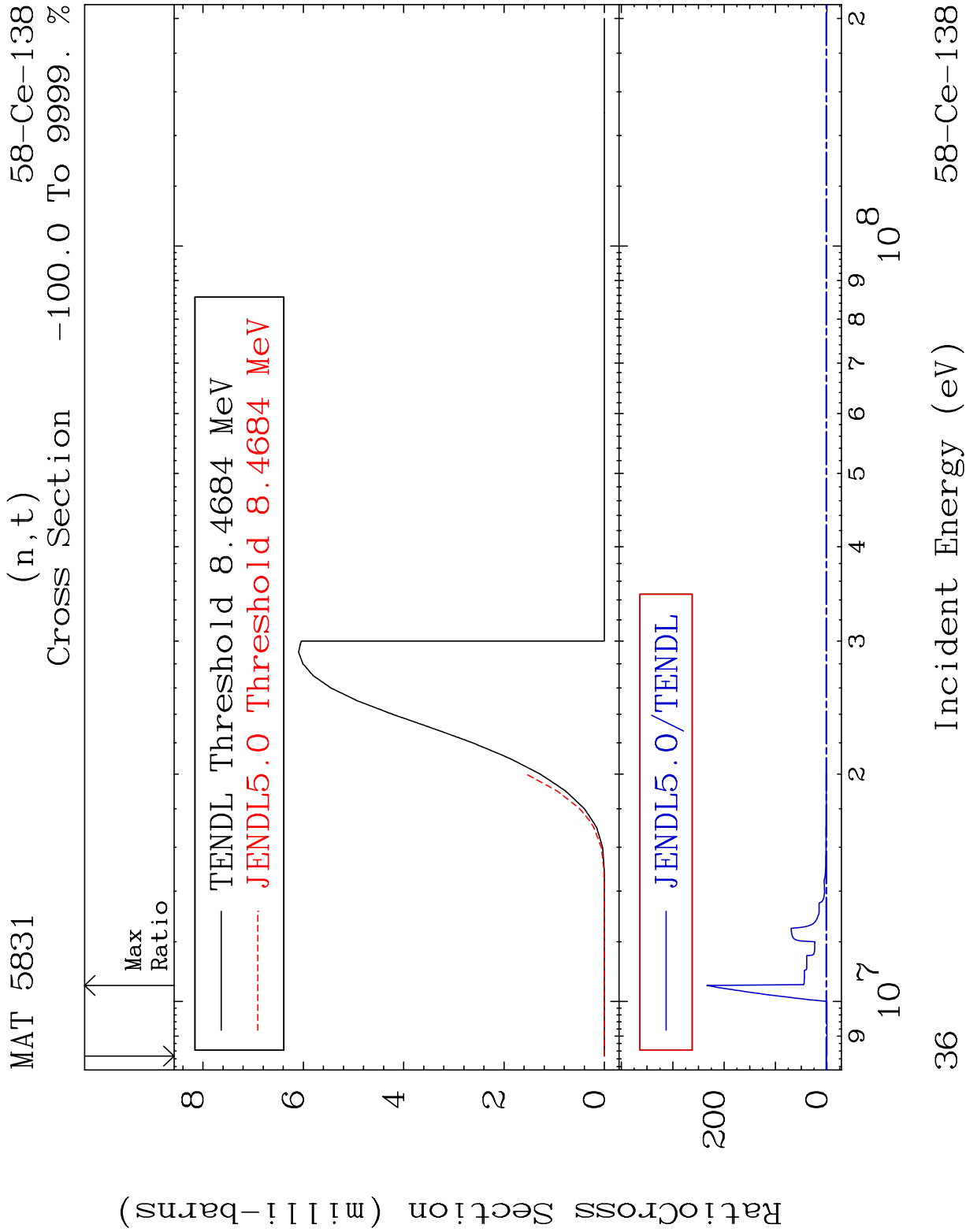
33

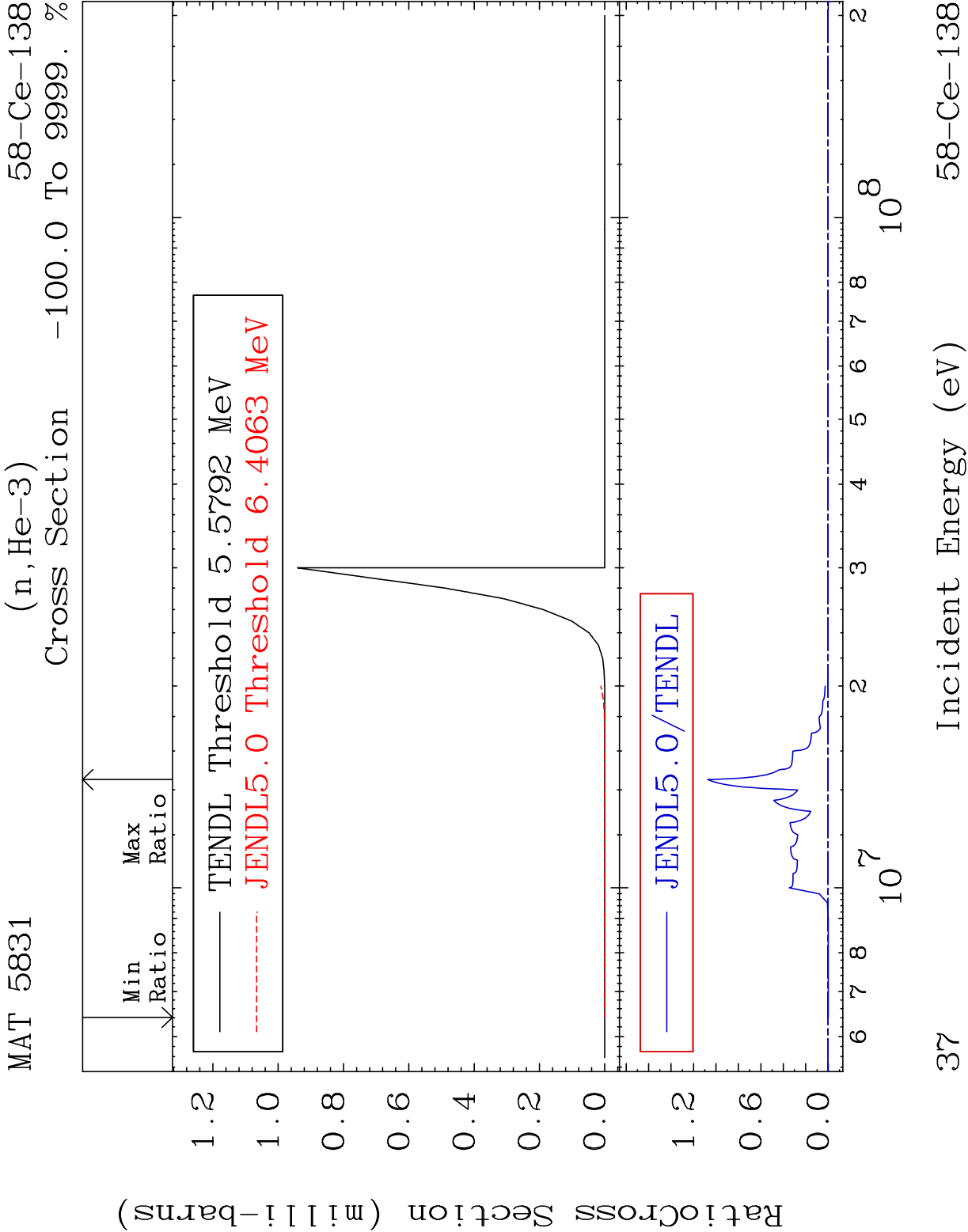
Incident Energy (eV)

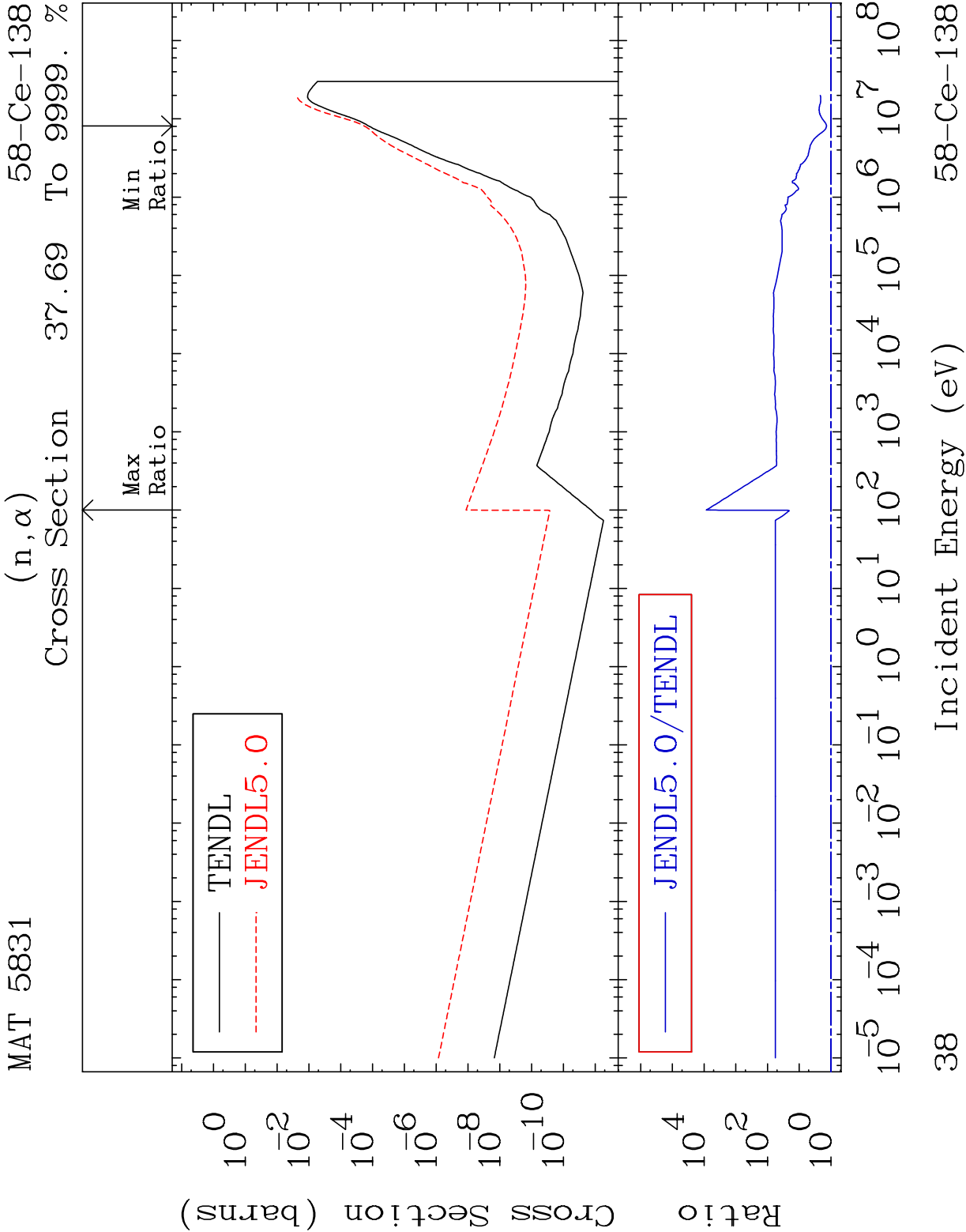
58-Ce-138











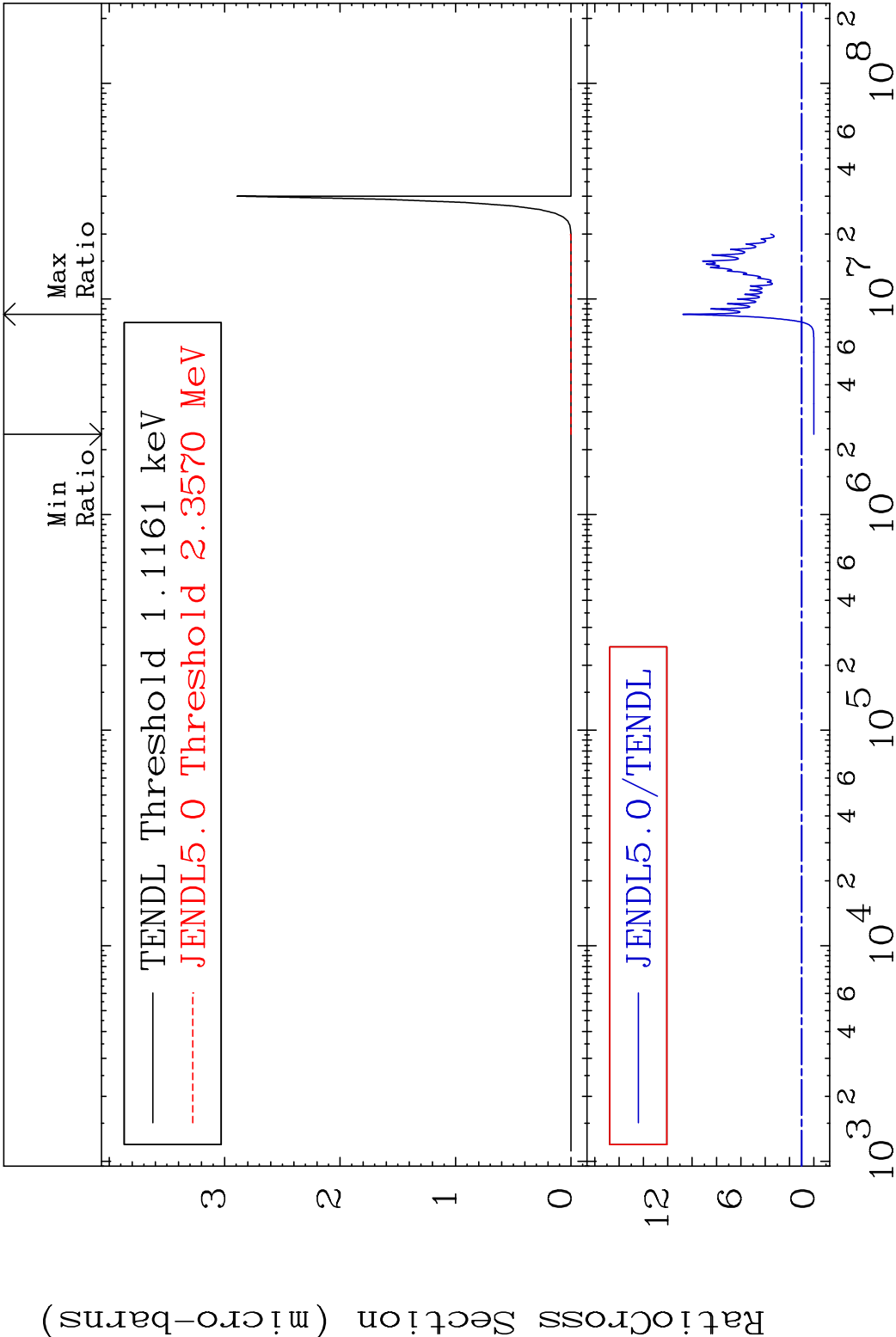
MAT 5831

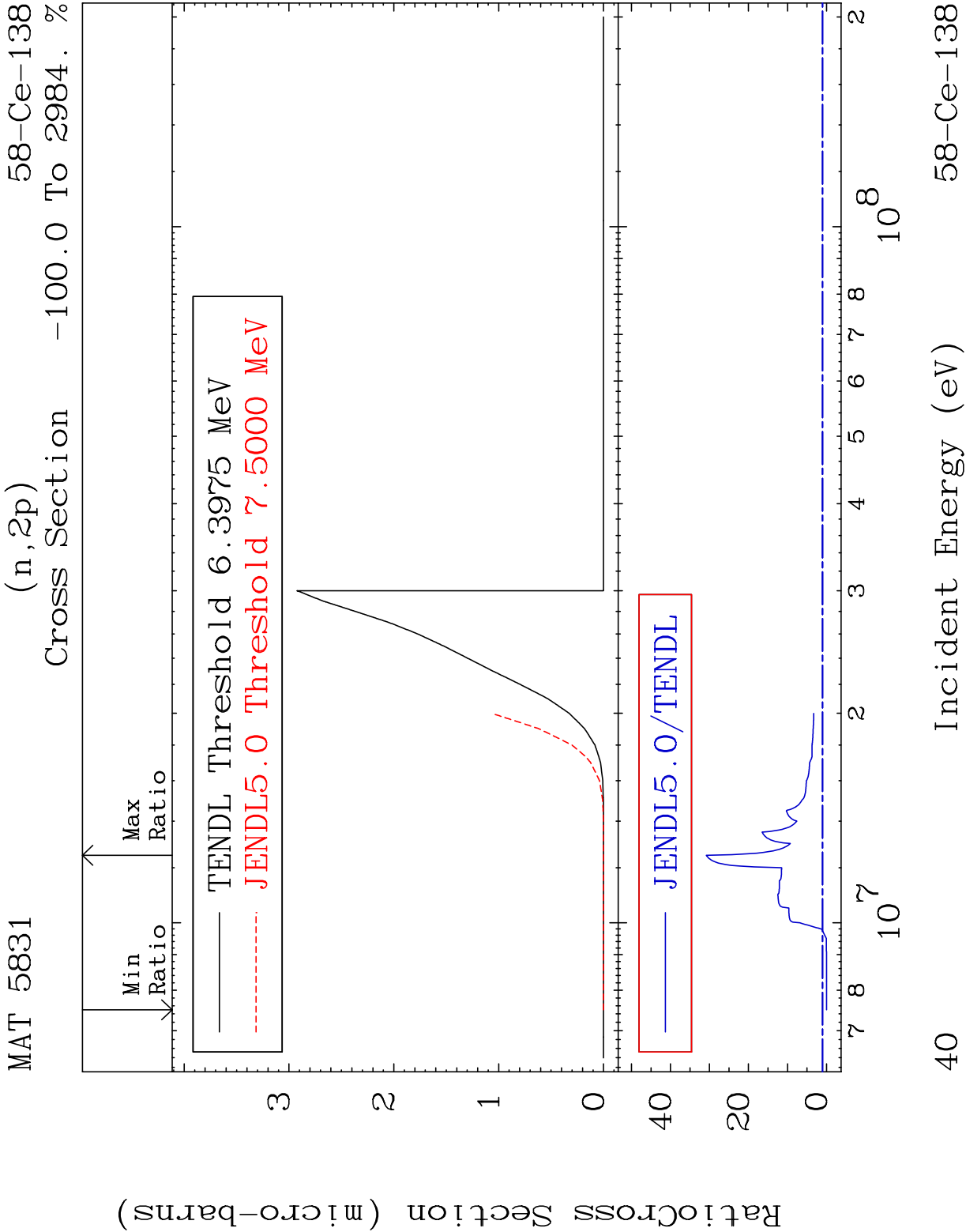
(n,2α)

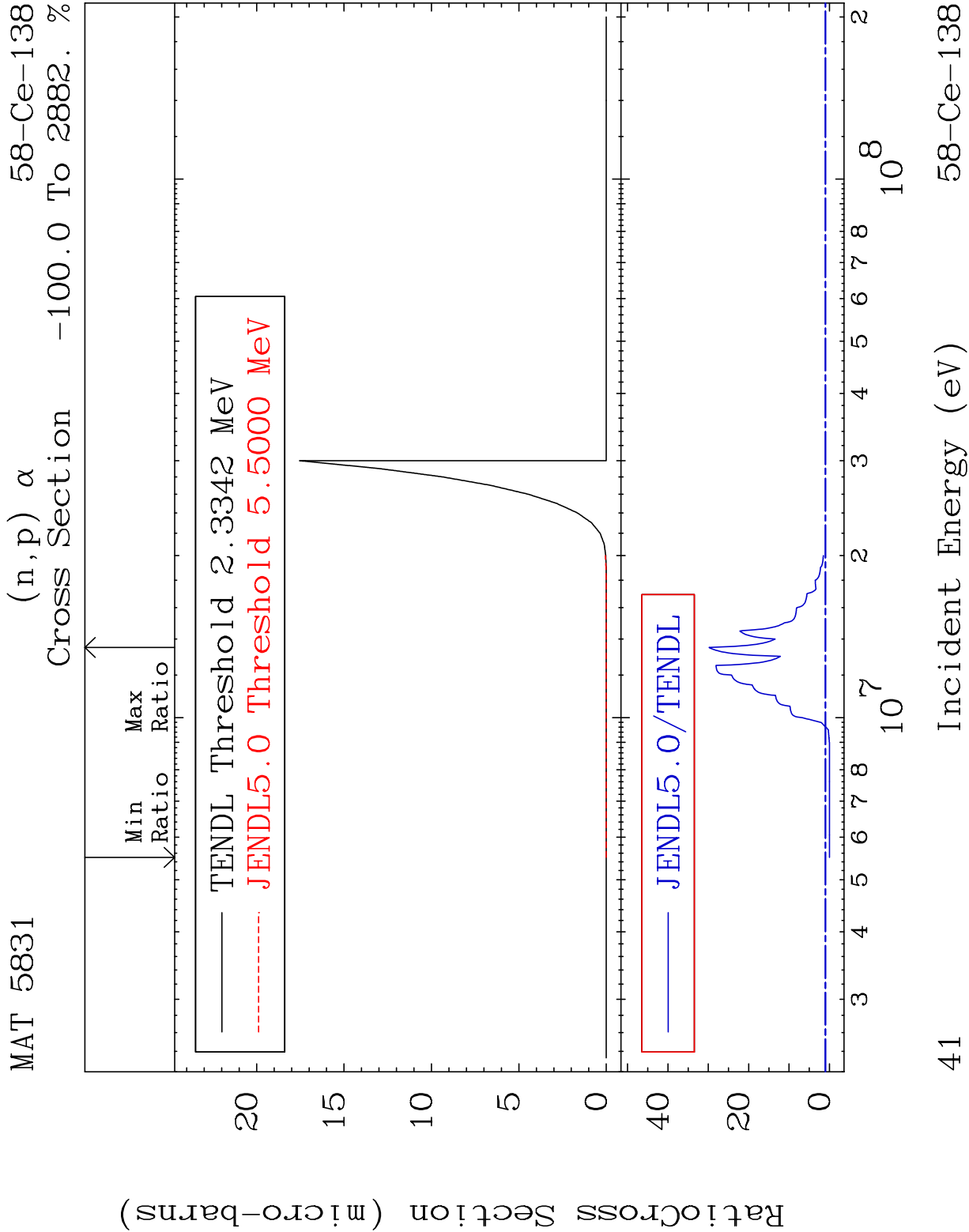
58-Ce-138

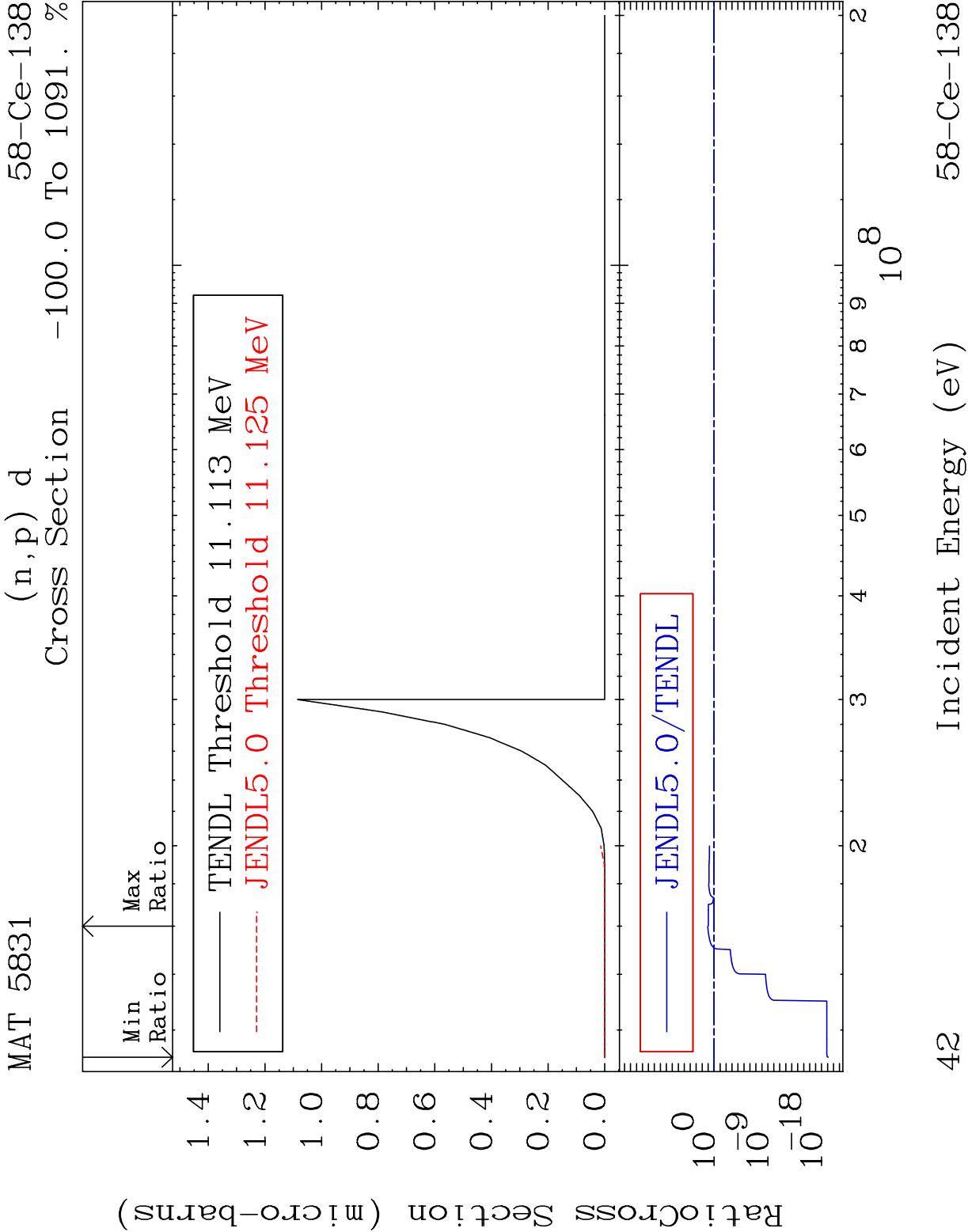
Cross Section

-100.0 To 976.7 %







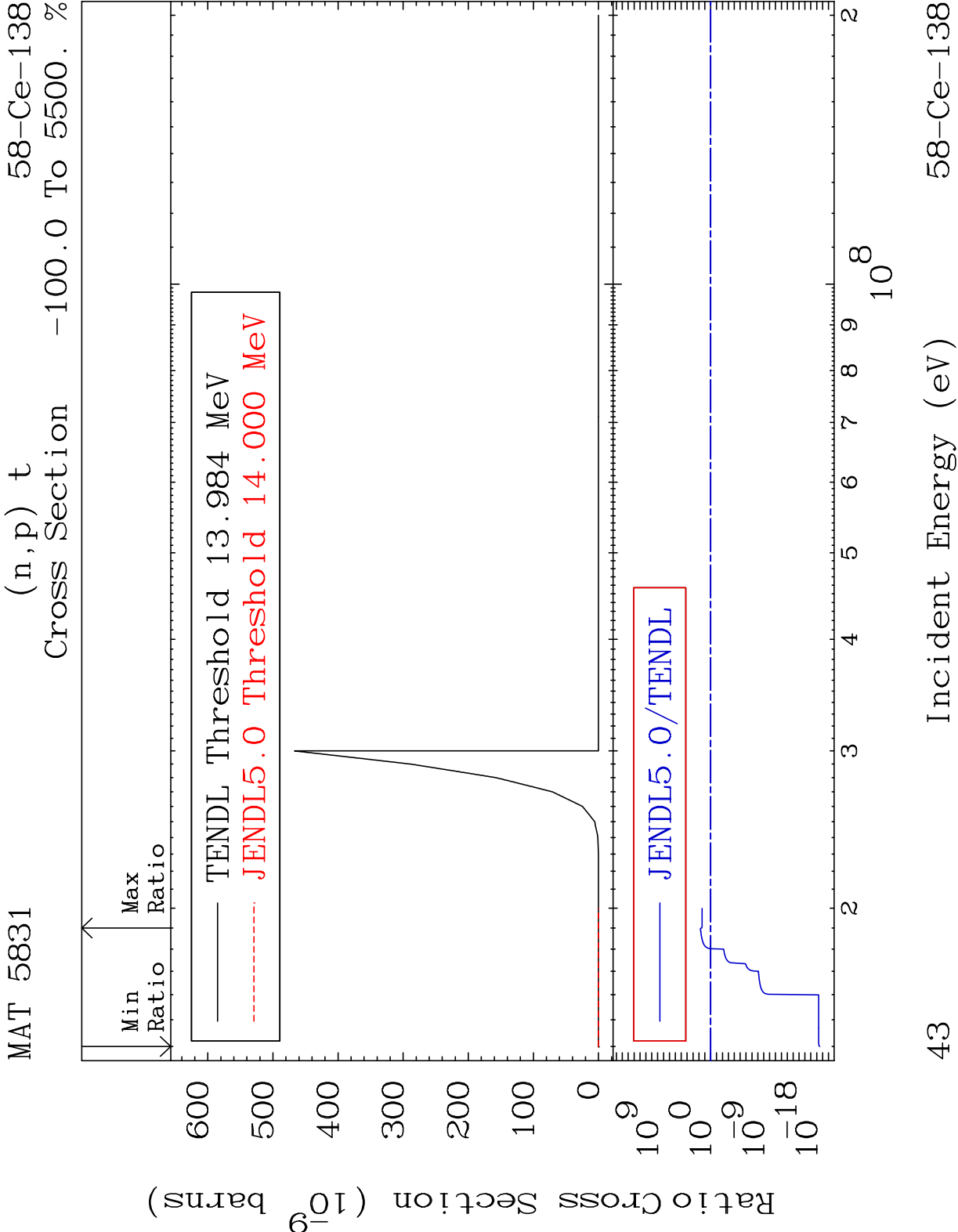


RatioCross Section (micro-barns)

1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0

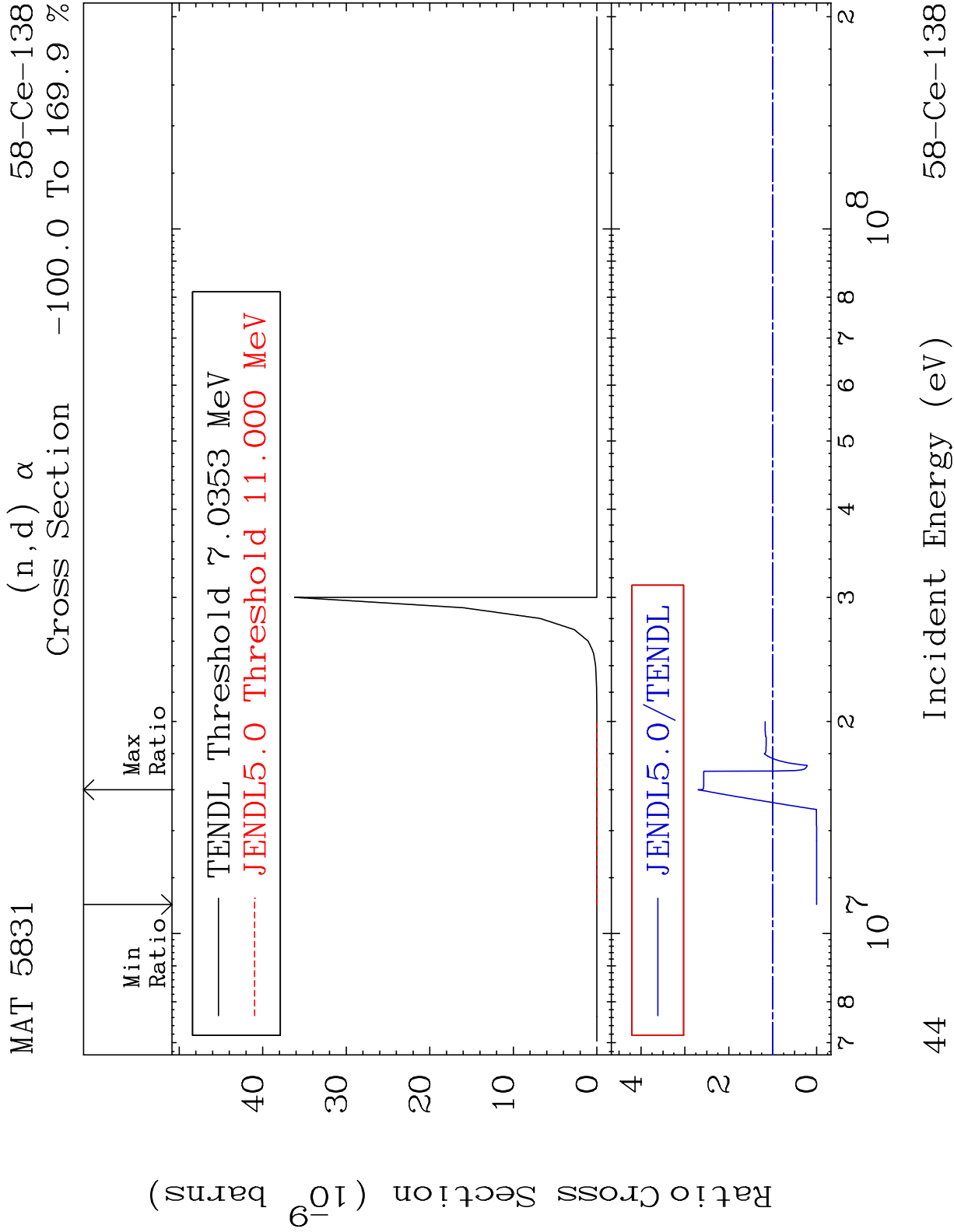
 10^0
 10^{-9}
 10^{-18}

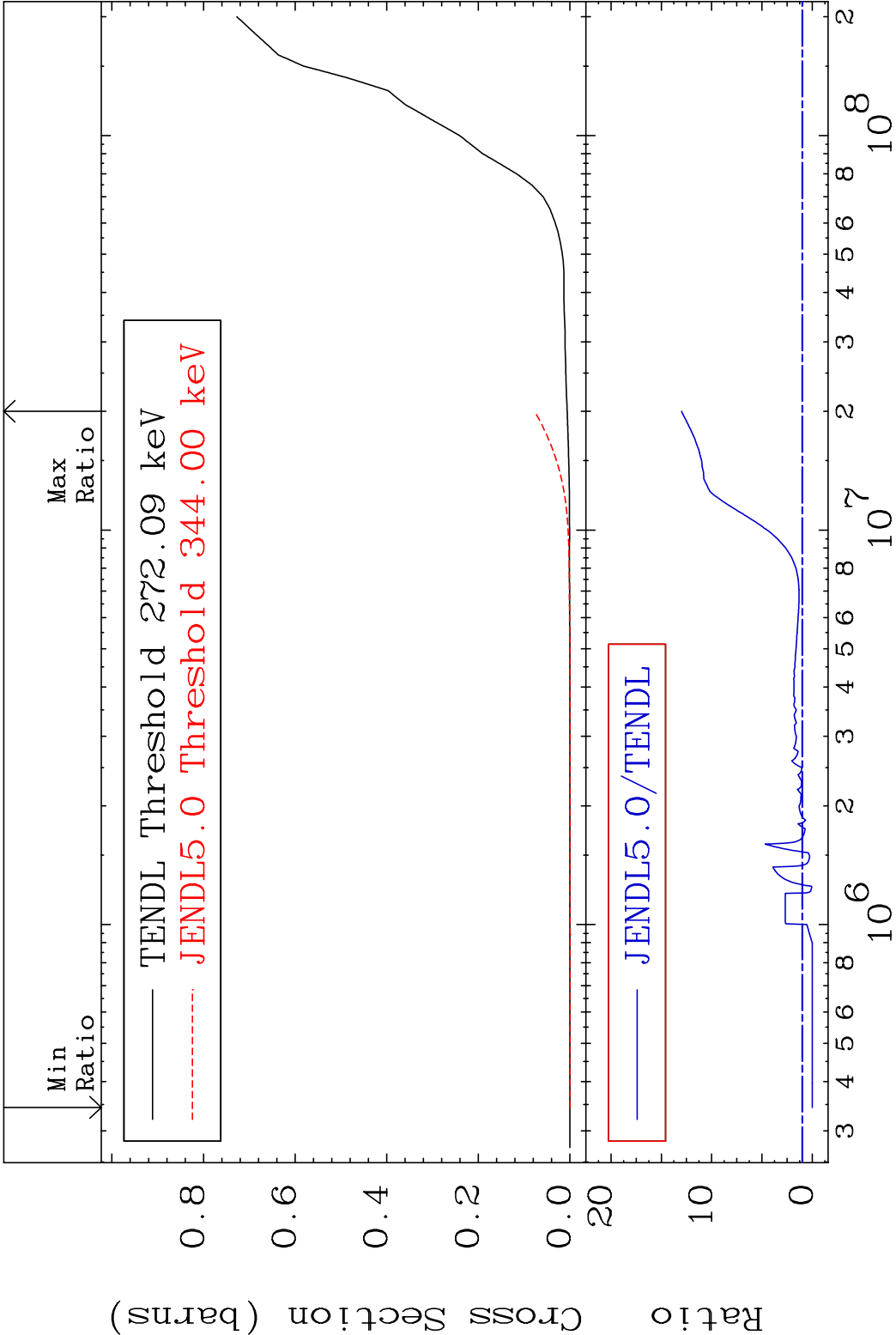
2 3 4 5 6 7 8 9 10^8 2

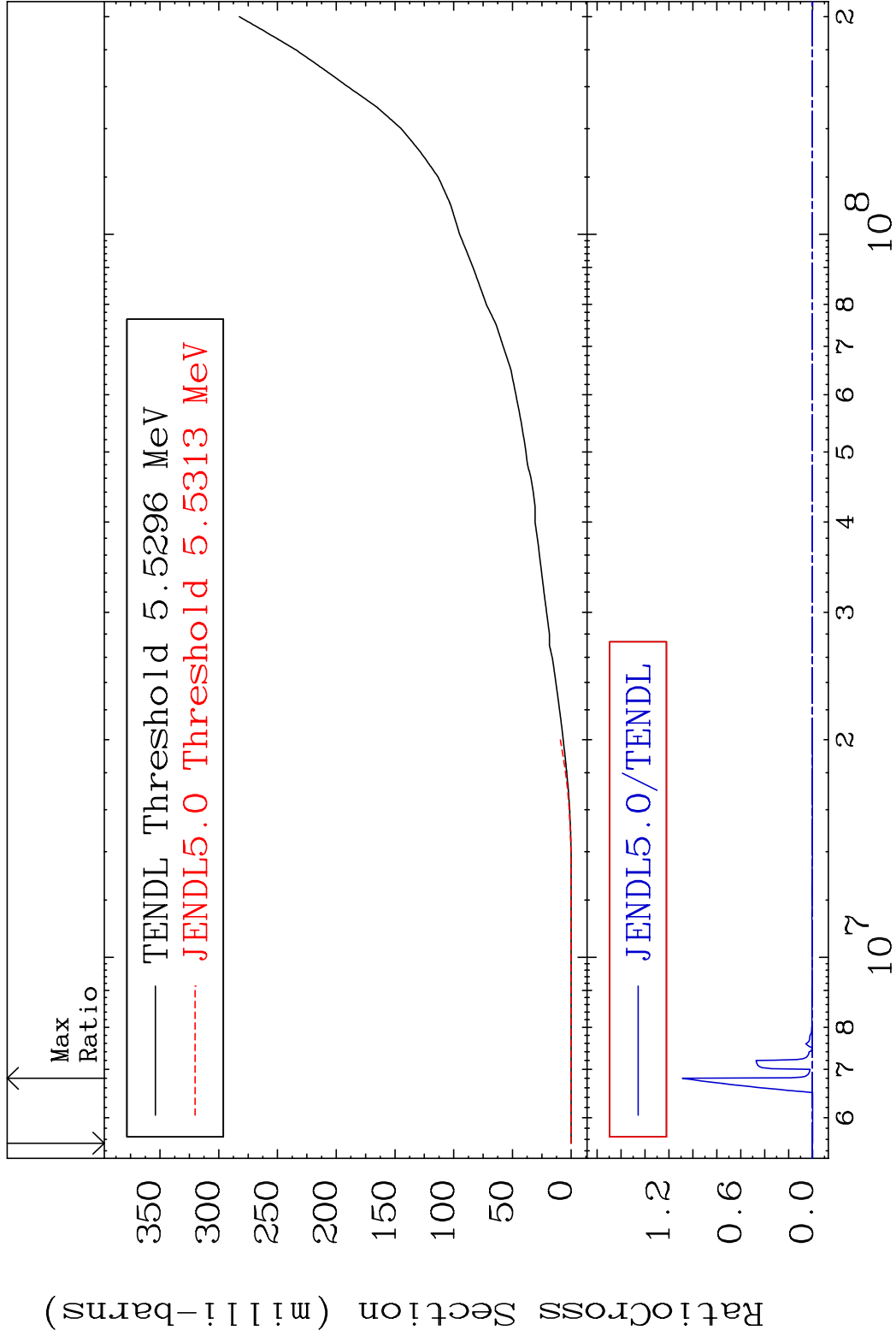


43

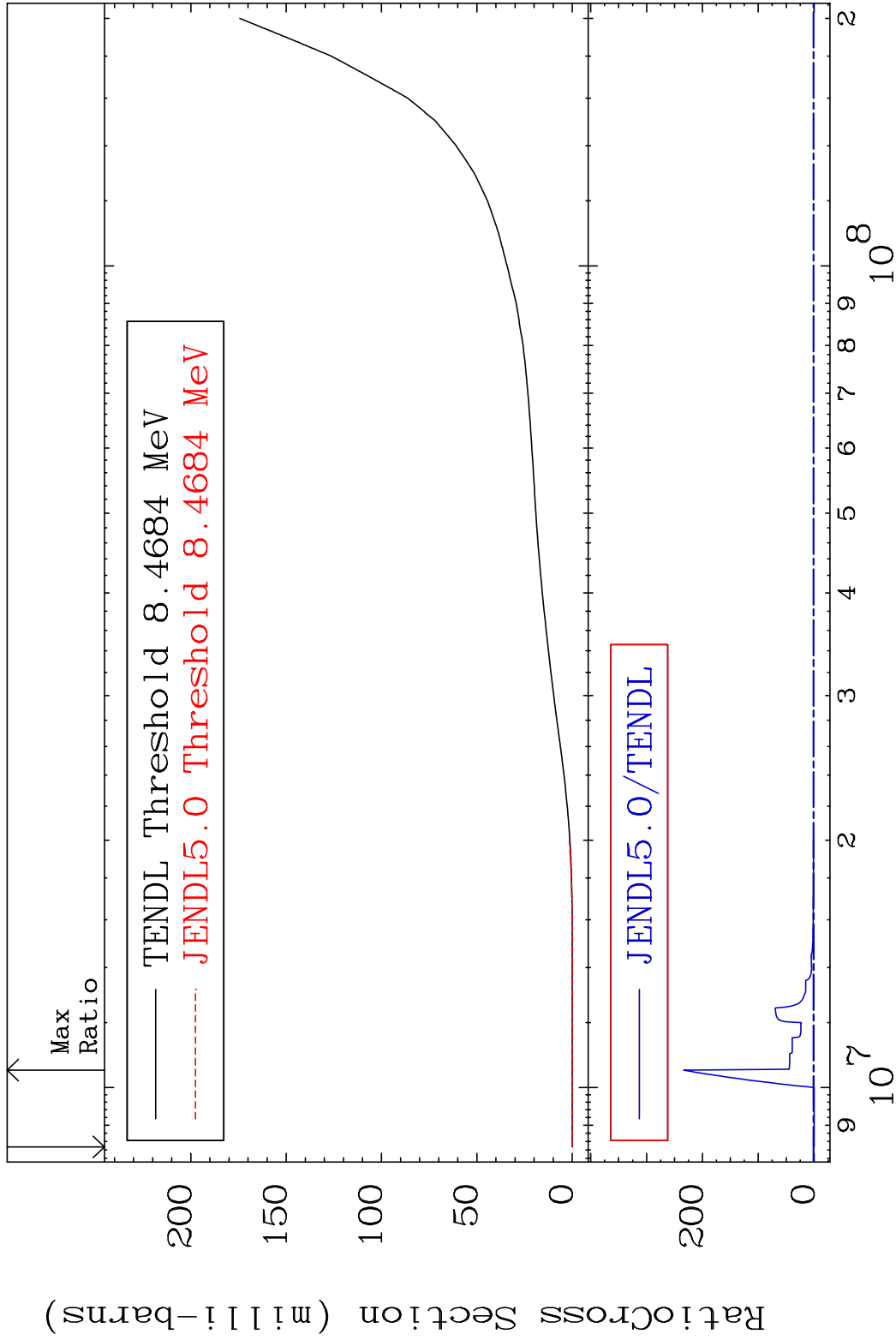
58-Ce-138





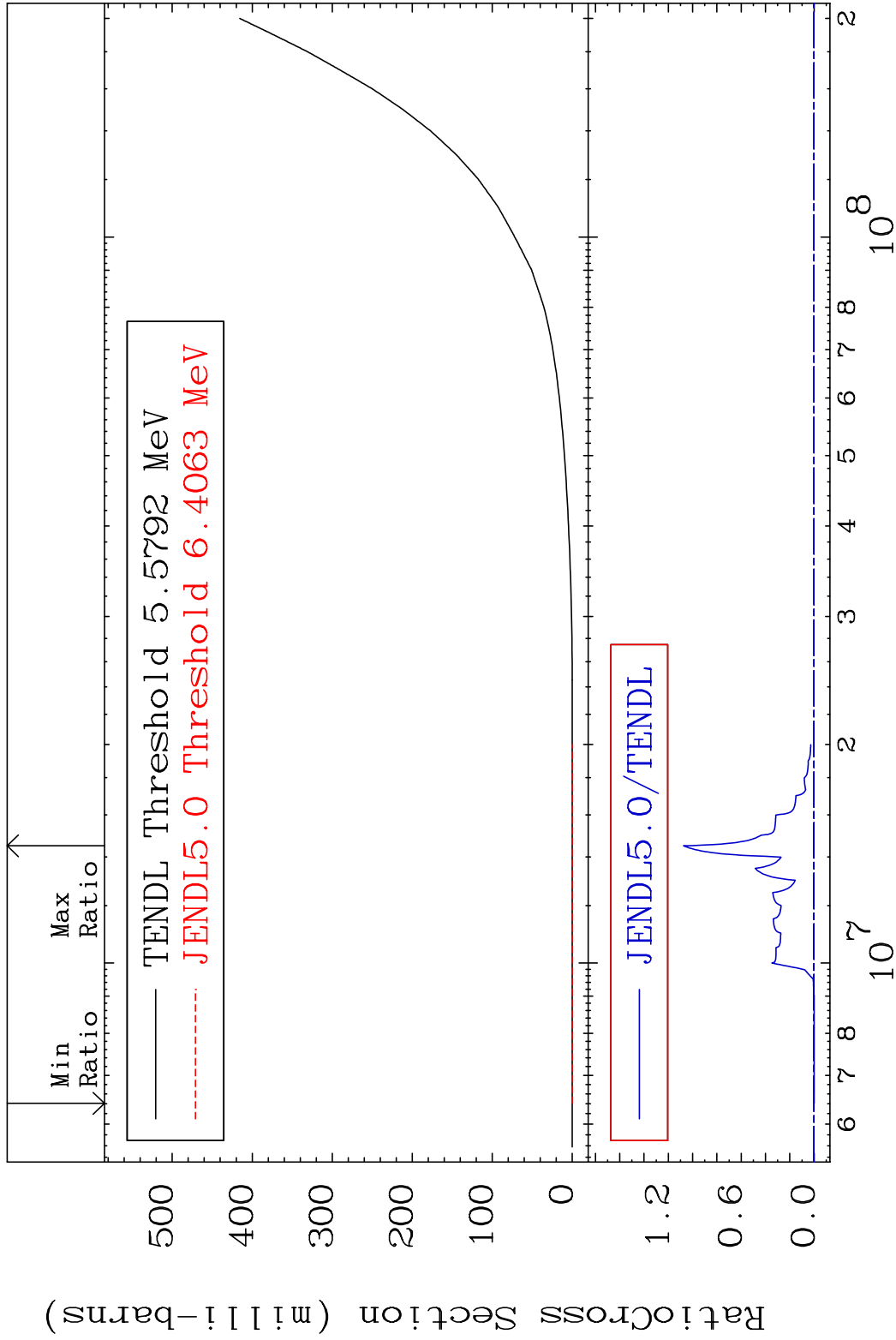


MAT 5831 Tritium Production 58-Ce-138
Cross Section -100.0 To 9999. %



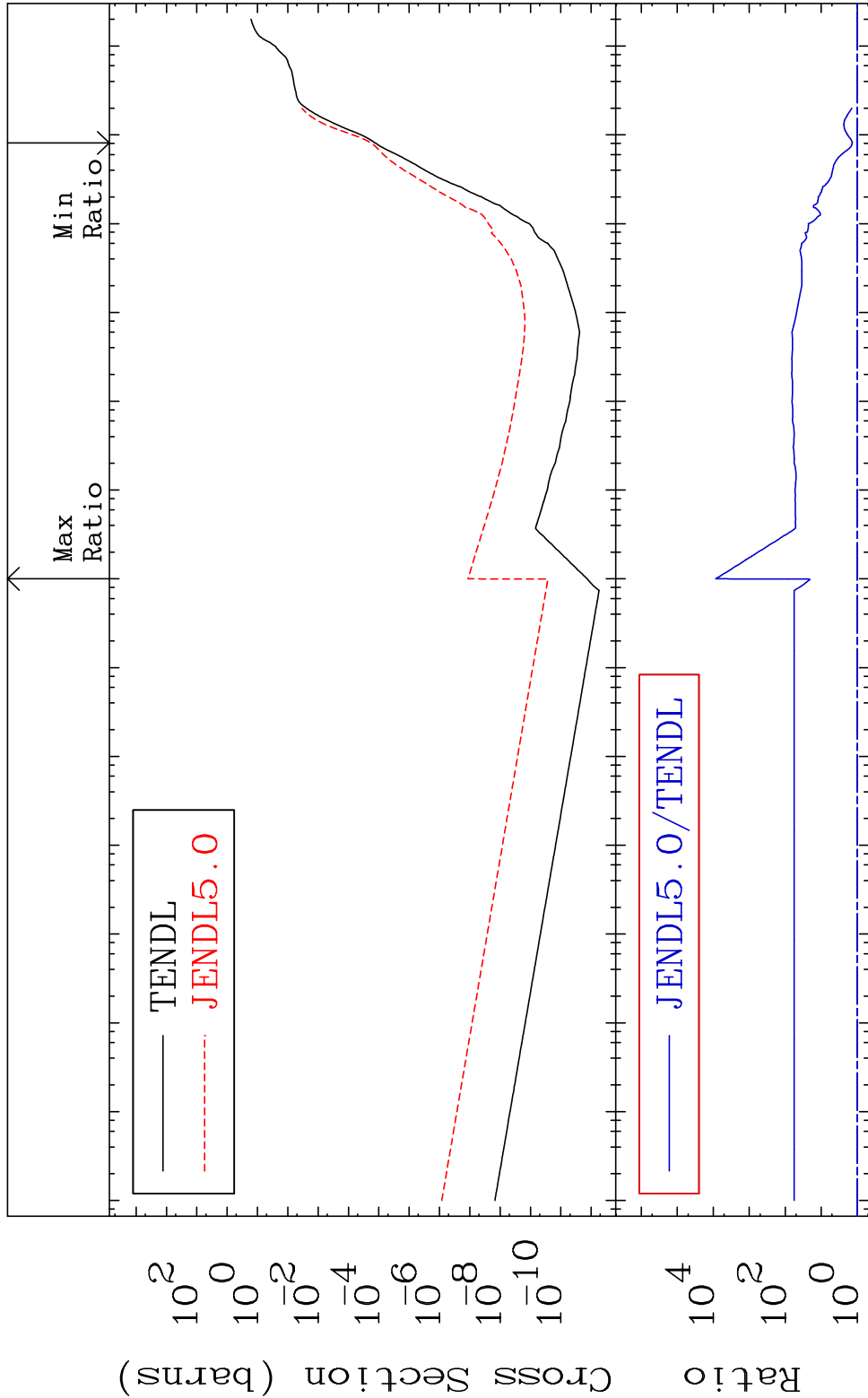
47 Incident Energy (eV) 58-Ce-138

MAT 5831 He-3 Production 58-Ce-138
Cross Section -100.0 To 9999. %



48 Incident Energy (eV) 58-Ce-138

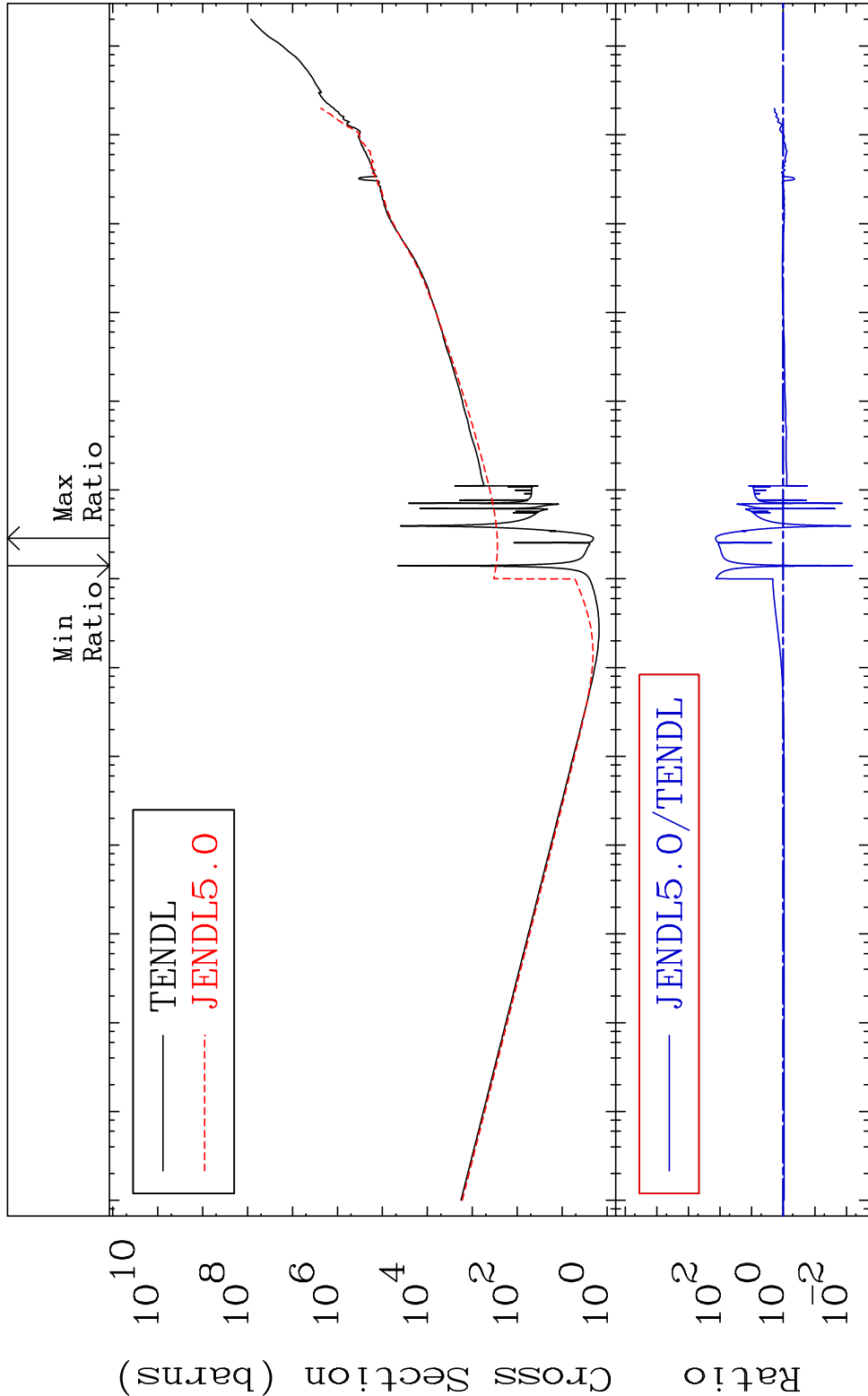
MAT 5831 He-4 Production 58-Ce-138
Cross Section 37.68 To 9999. %



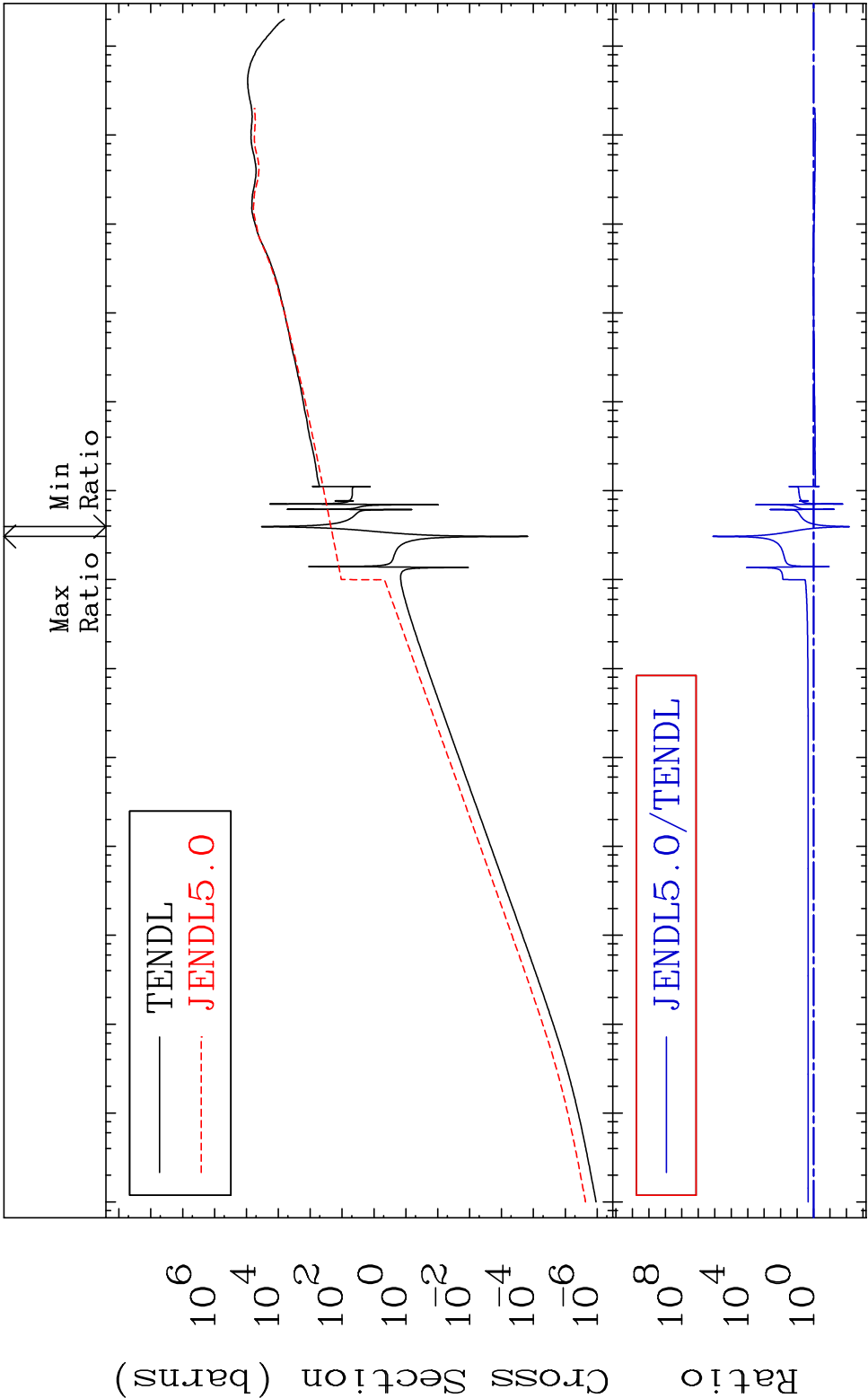
49 Incident Energy (eV) 58-Ce-138

MAT 5831 Kerma total (eV-barns) 58-Ce-138

Cross Section -99.34 To 9999. %

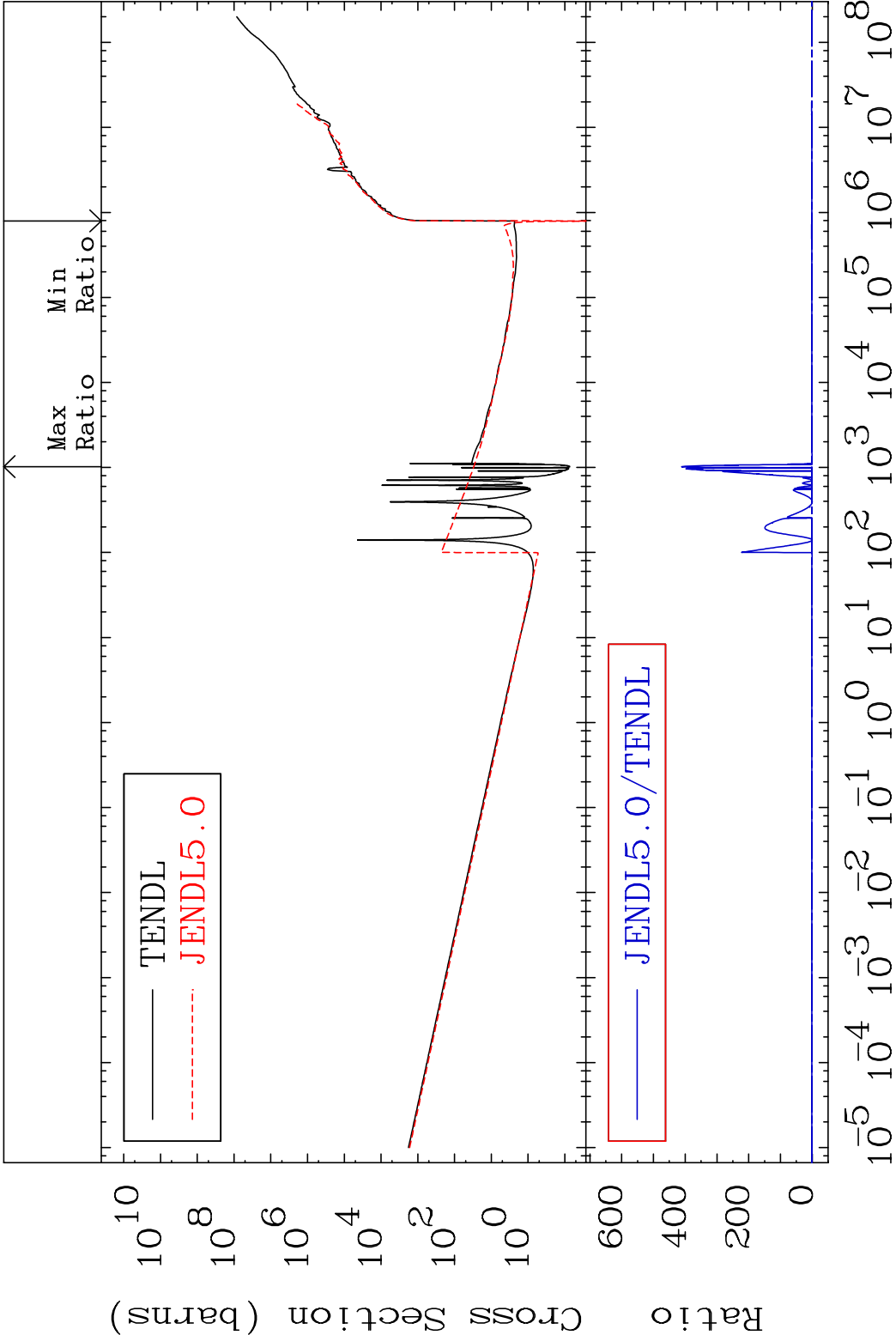


MAT 5831	Kerma elastic	58-Ce-138
	Cross Section	-99.35 To 9999. %

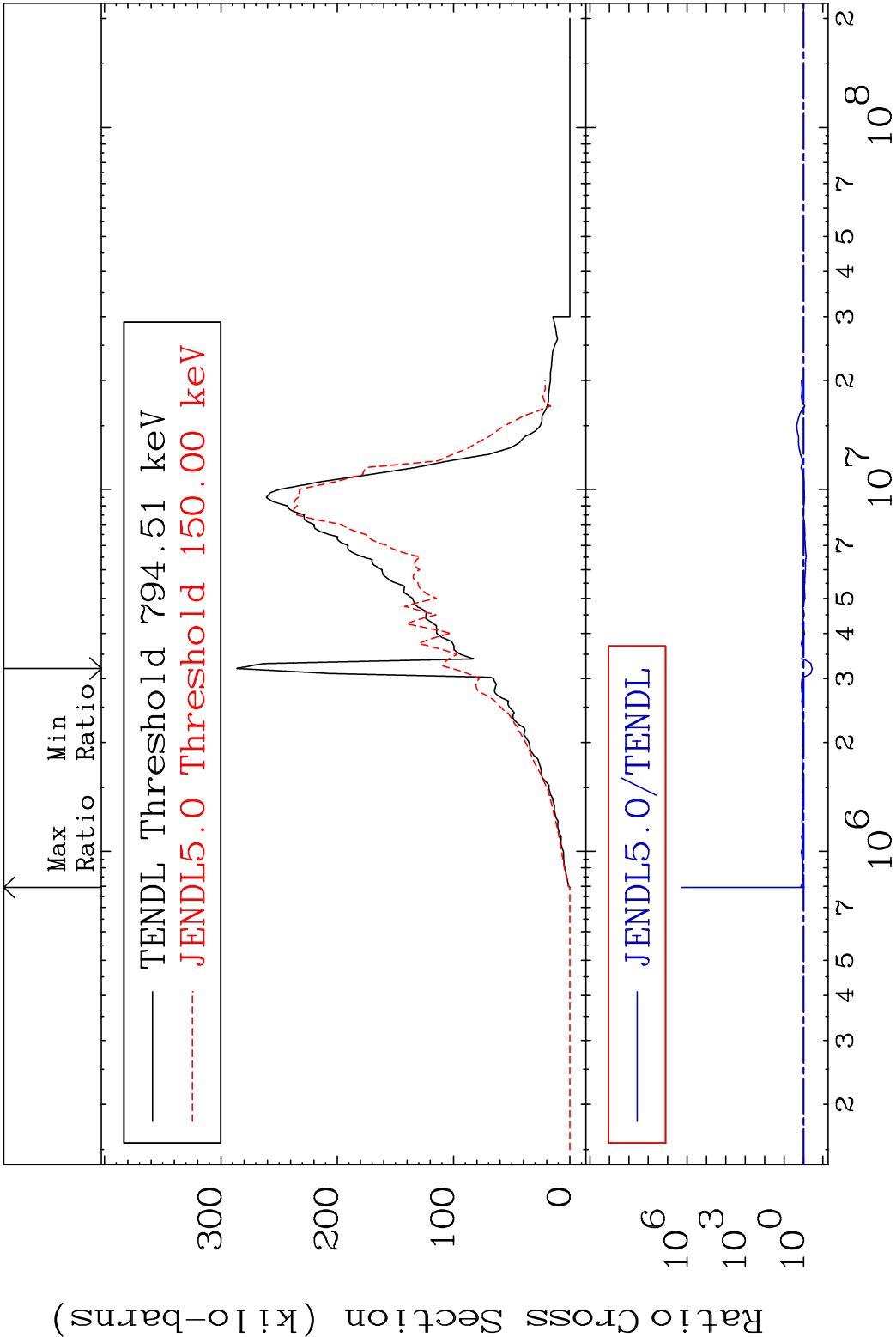


51	Incident Energy (eV)	58-Ce-138
----	----------------------	-----------

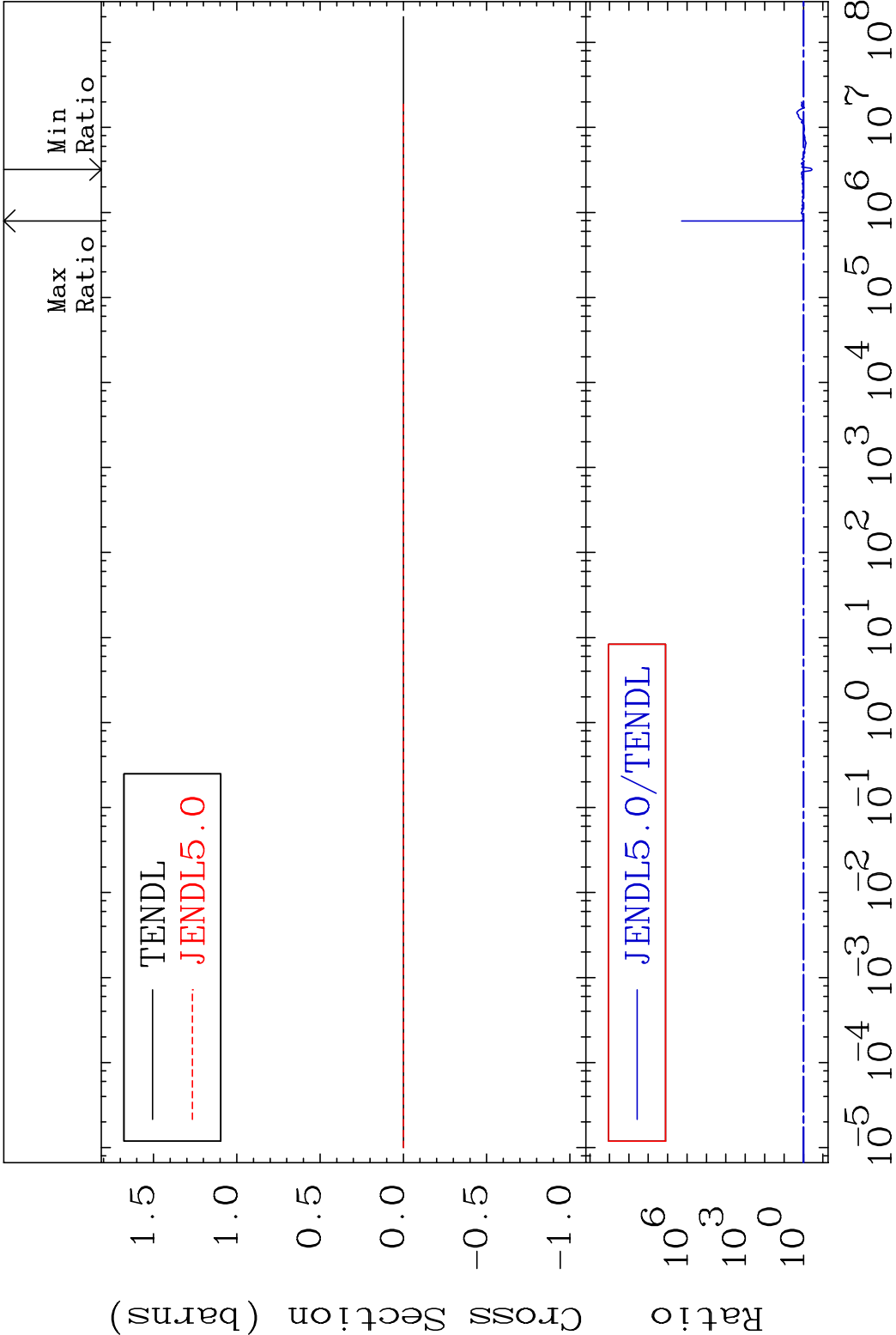
MAT 5831 Kerma non-elastic (all but mt2) 58-Ce-138
Cross Section -112.4 To 9999. %



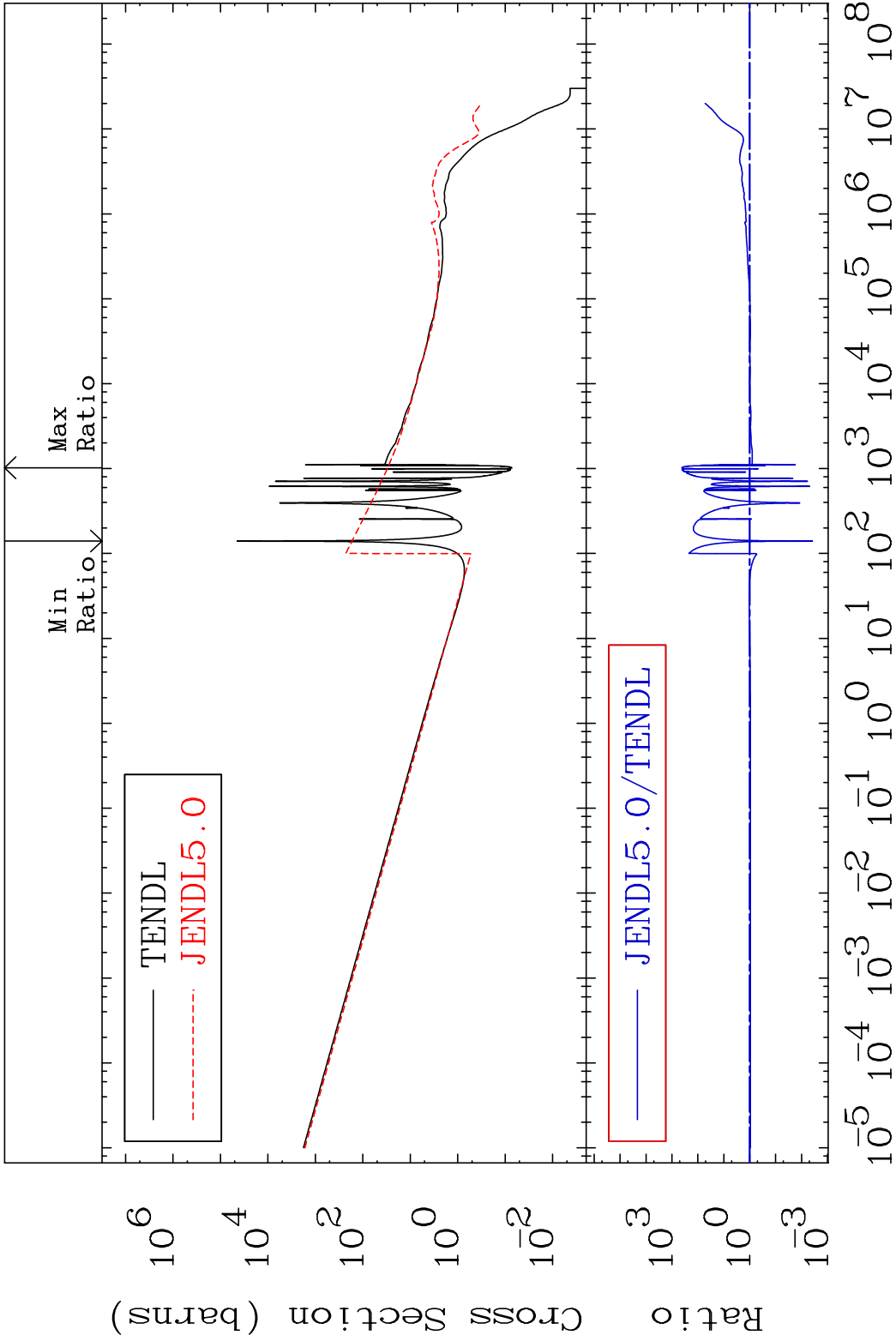
52 Incident Energy (eV) 58-Ce-138



MAT 5831 Kerma fission (mt18 or mt19-20-21-38)58-Ce-138
 Cross Section -64.61 To 9999. %

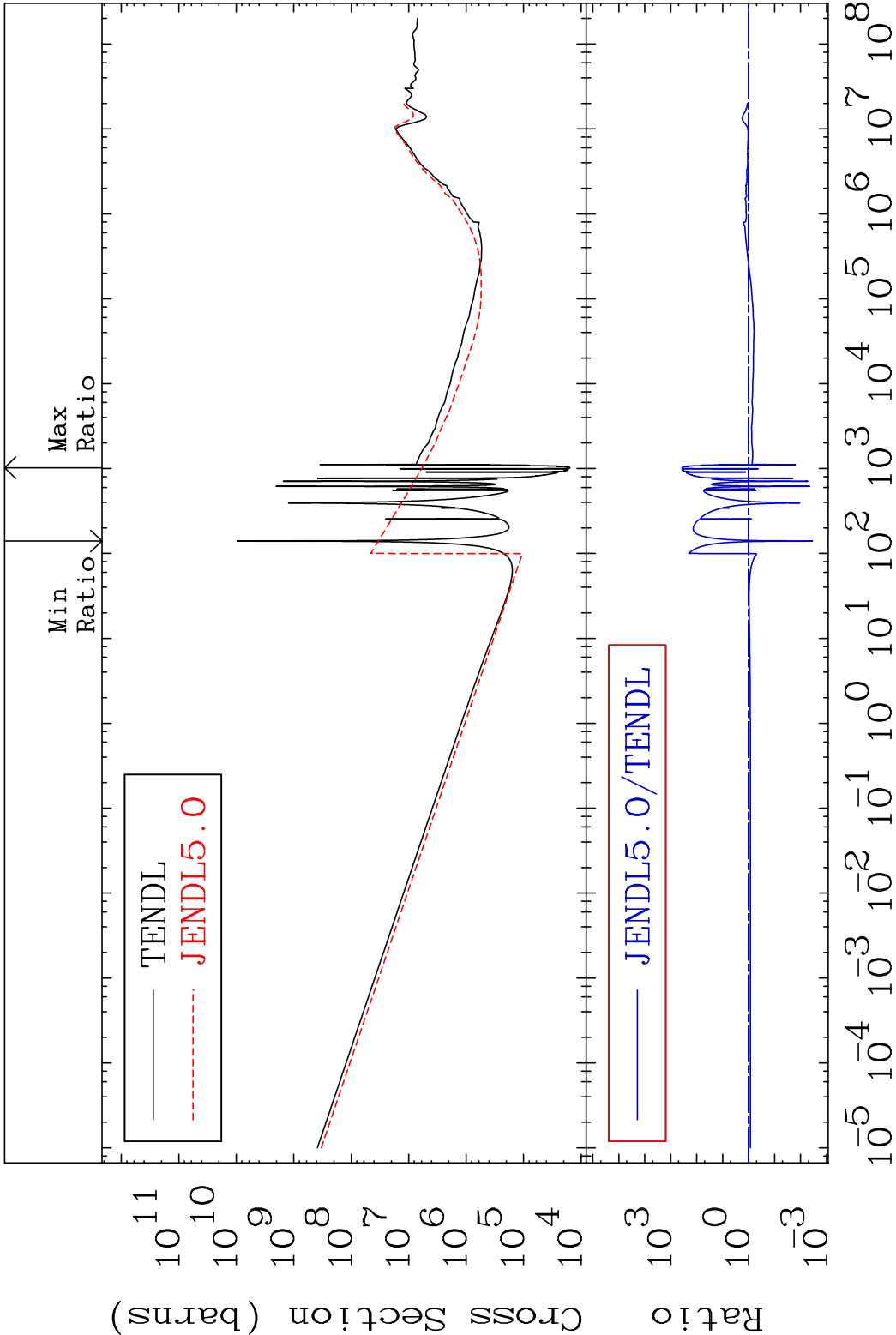


MAT 5831 Kerma capture (mt102) 58-Ce-138
Cross Section -99.62 To 9999. %



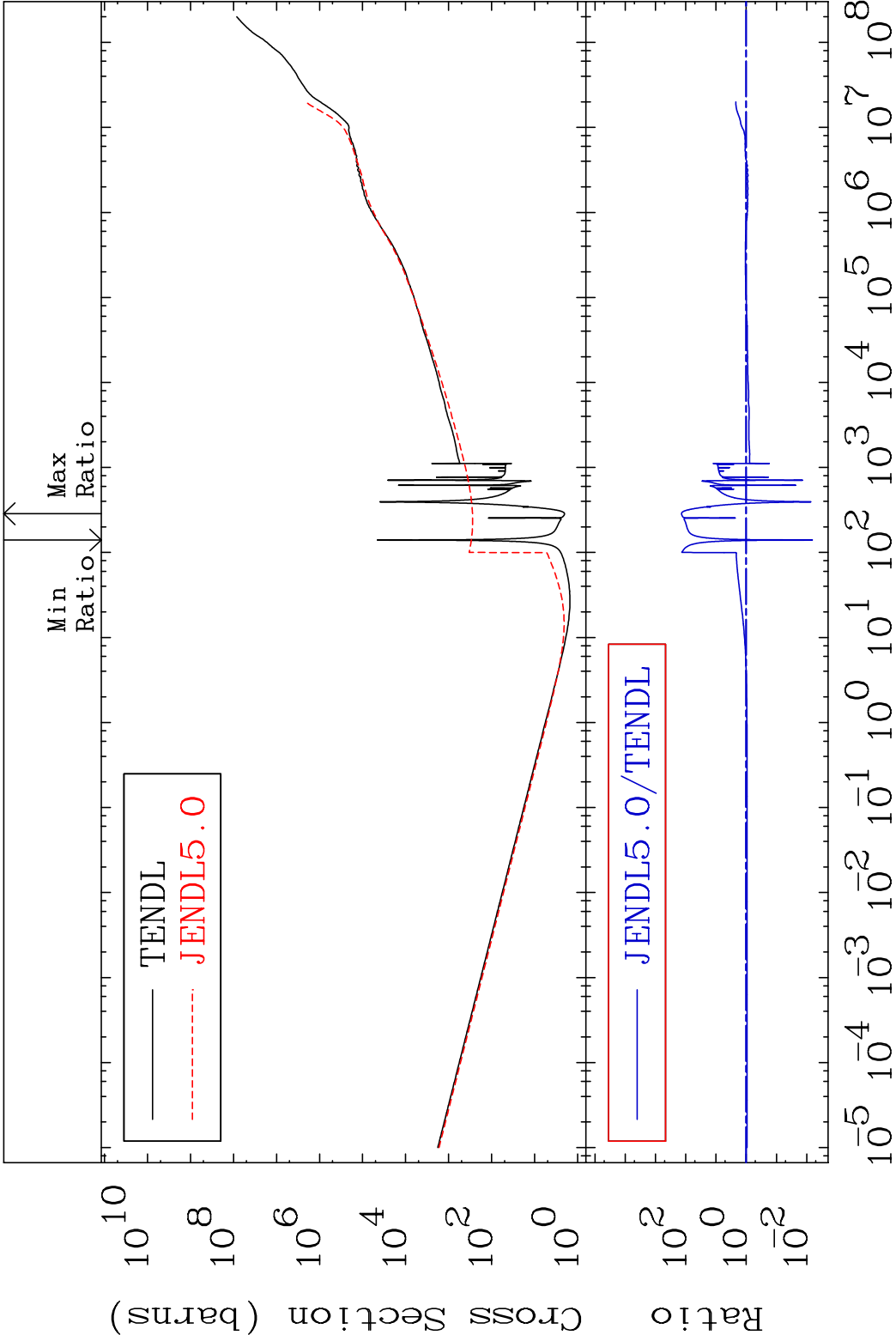
55 Incident Energy (eV) 58-Ce-138

MAT 5831 Total photon (eV-barns) 58-Ce-138
Cross Section -99.65 To 9999. %

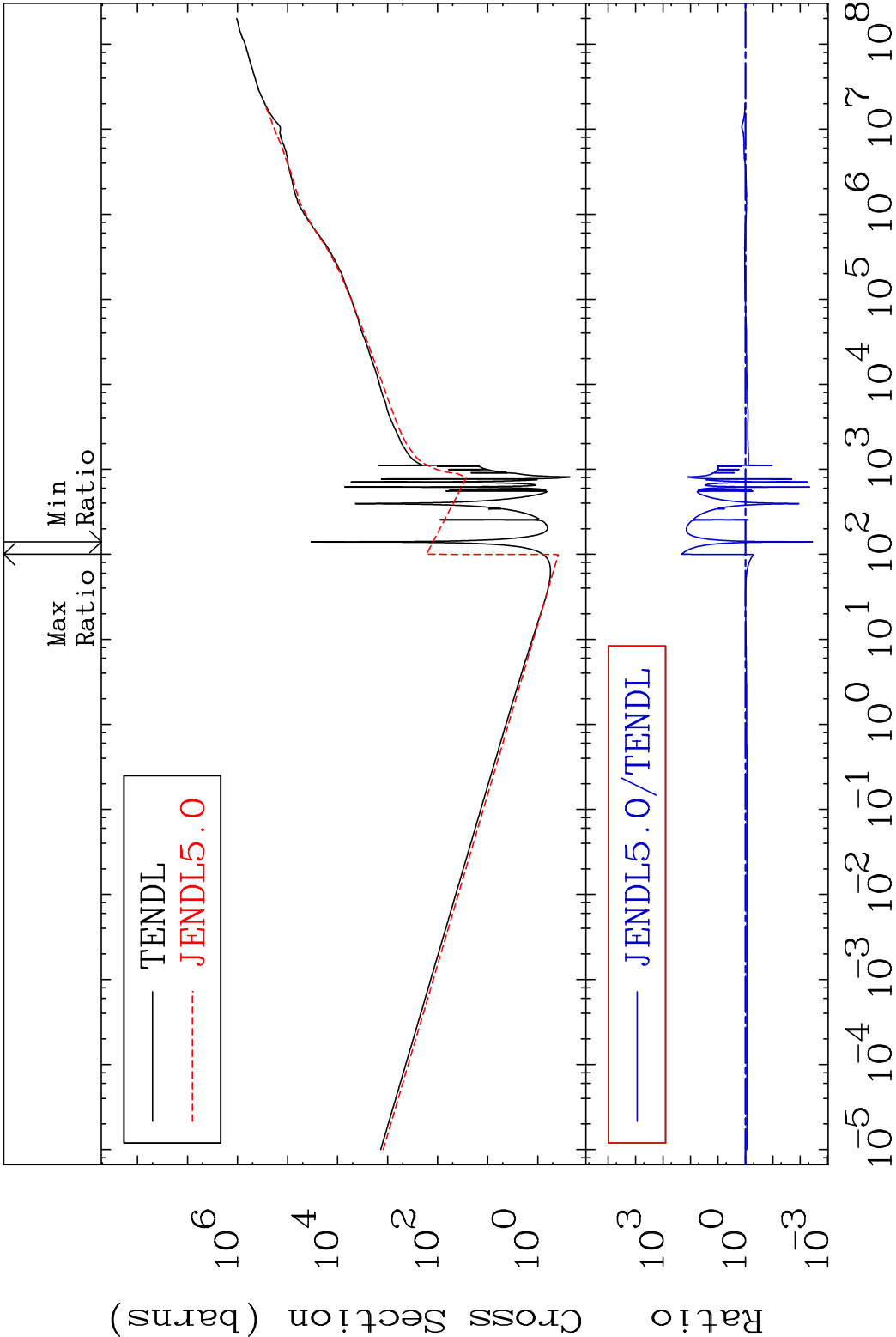


56 Incident Energy (eV) 58-Ce-138

MAT 5831 Total kinematic kerma (high limit) 58-Ce-138
Cross Section -99.34 To 9999. %

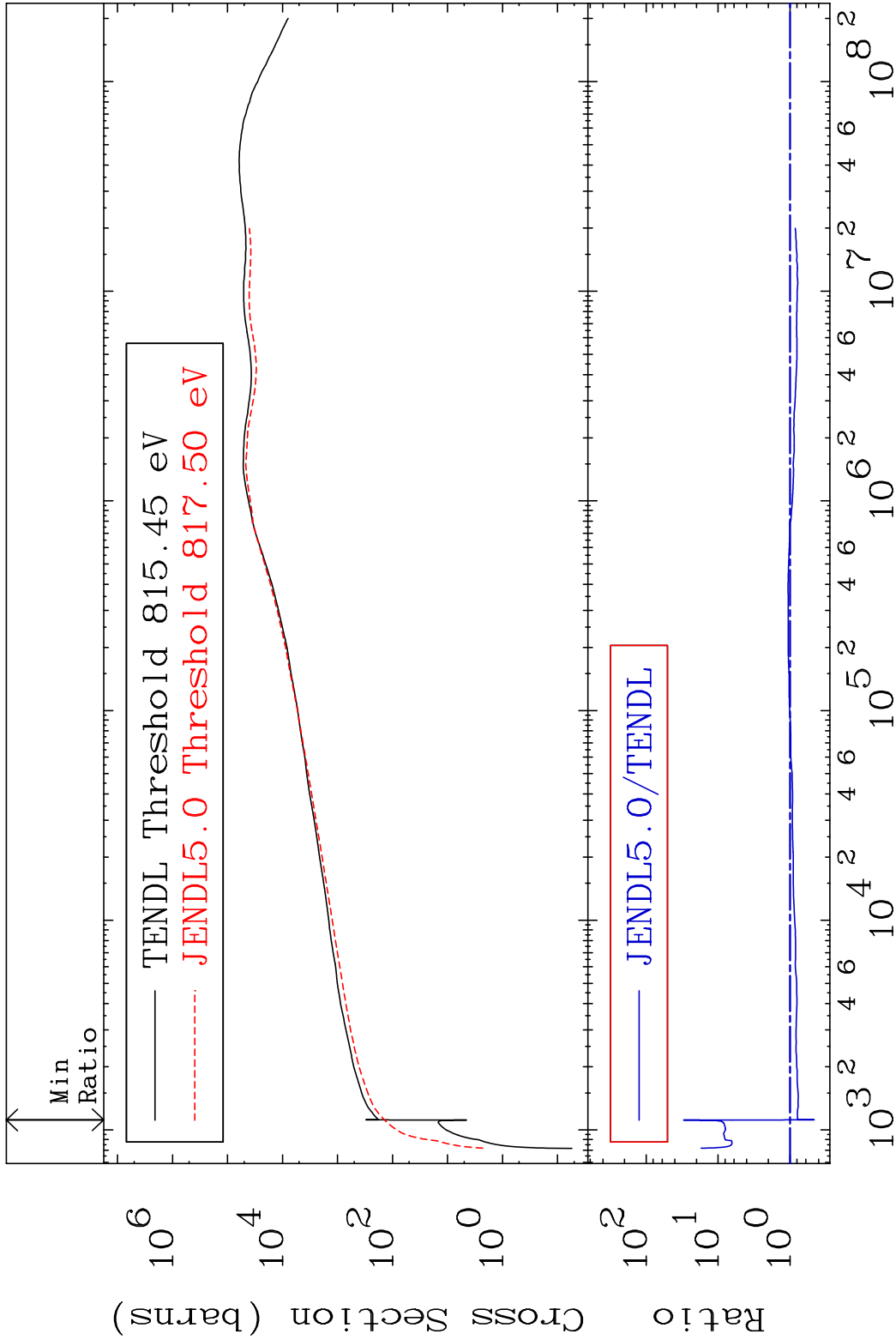


MAT 5831 Dpa total (eV-barns) 58-Ce-138
Cross Section -99.63 To 9999. %

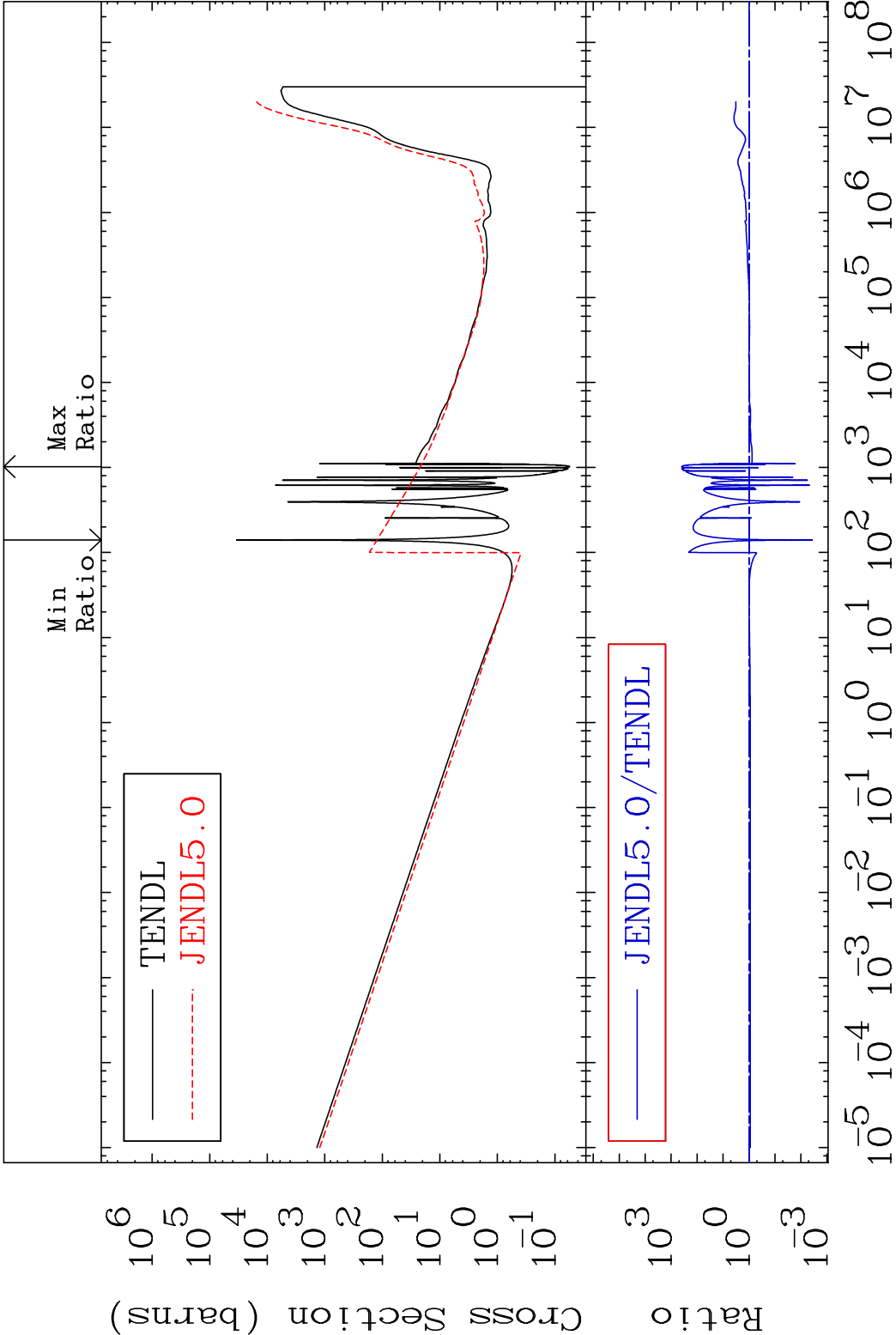


58 Incident Energy (eV) 58-Ce-138

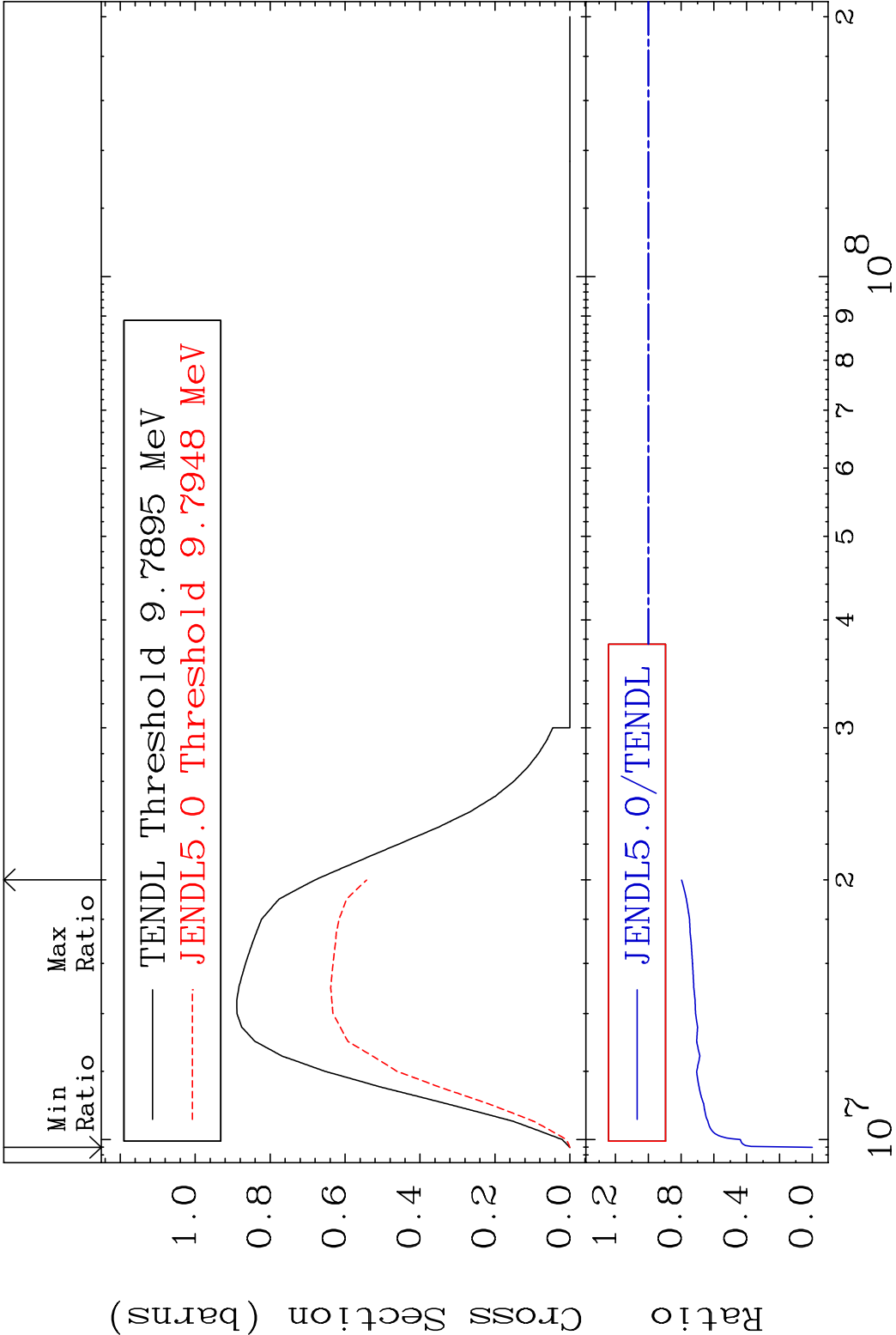
MAT 5831 Dpa elastic (mt2) 58-Ce-138
Cross Section -53.71 To 2934. %

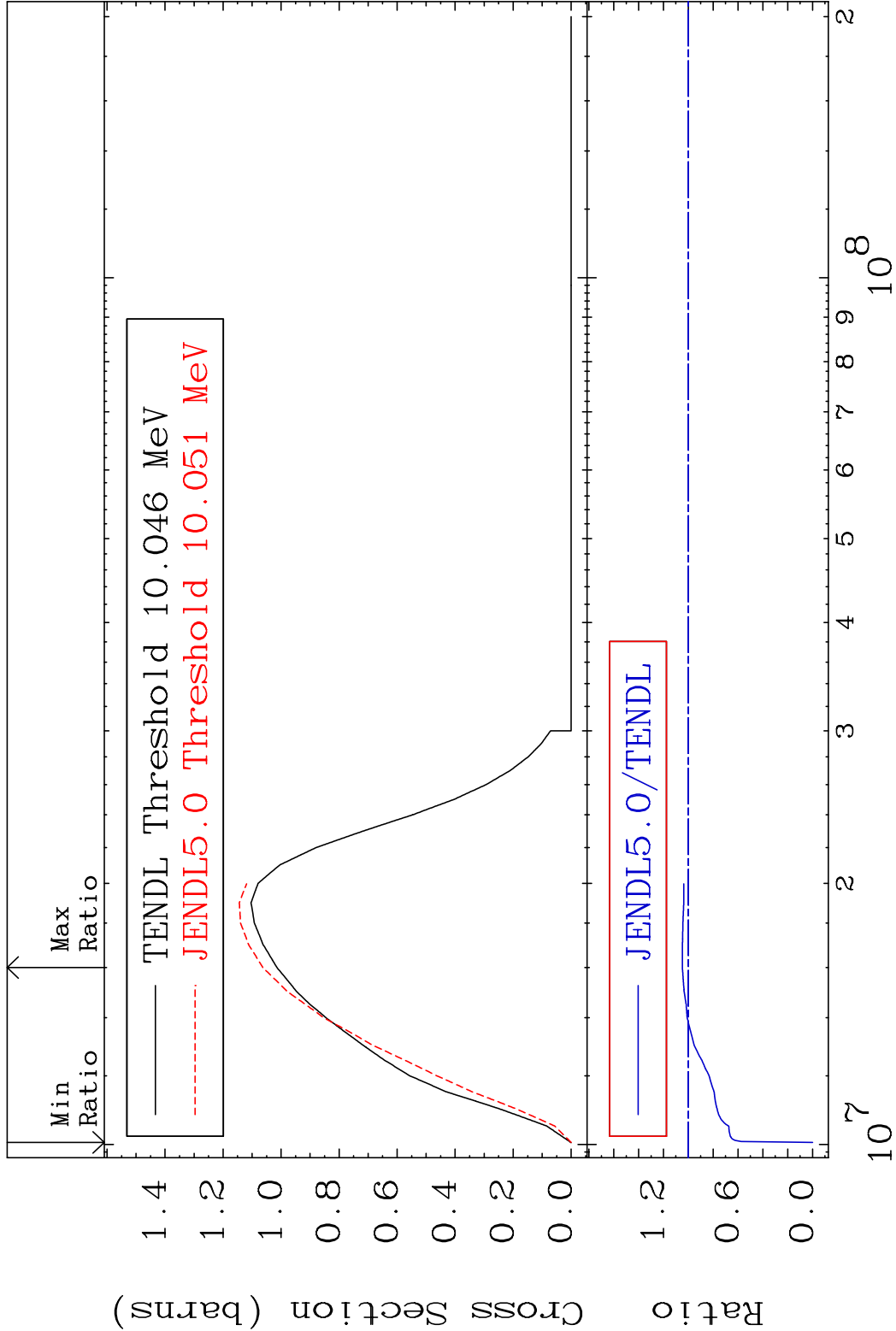


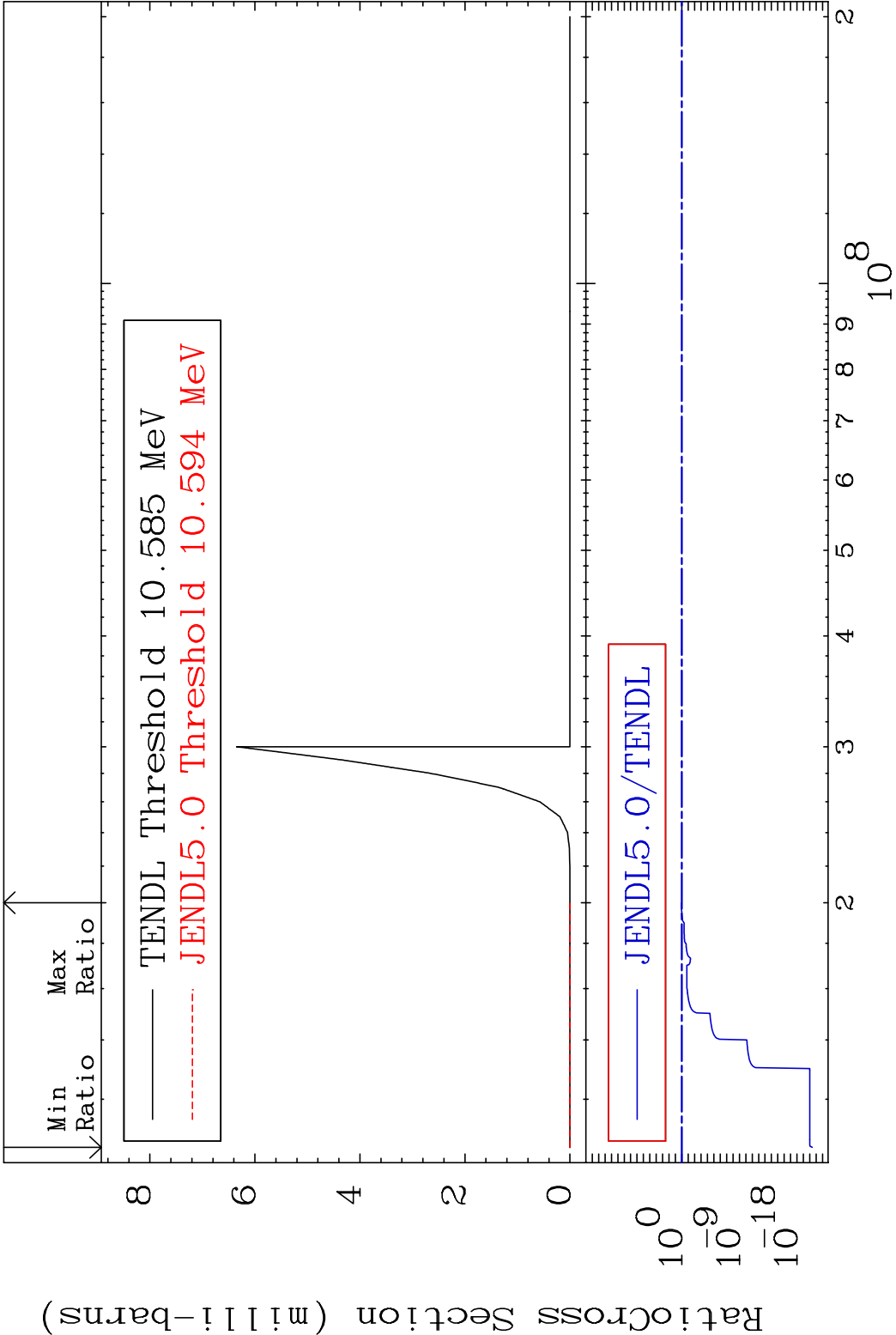
MAT 5831 Dpa disappearance (mt102 -120) 58-Ce-138
Cross Section -99.63 To 9999. %

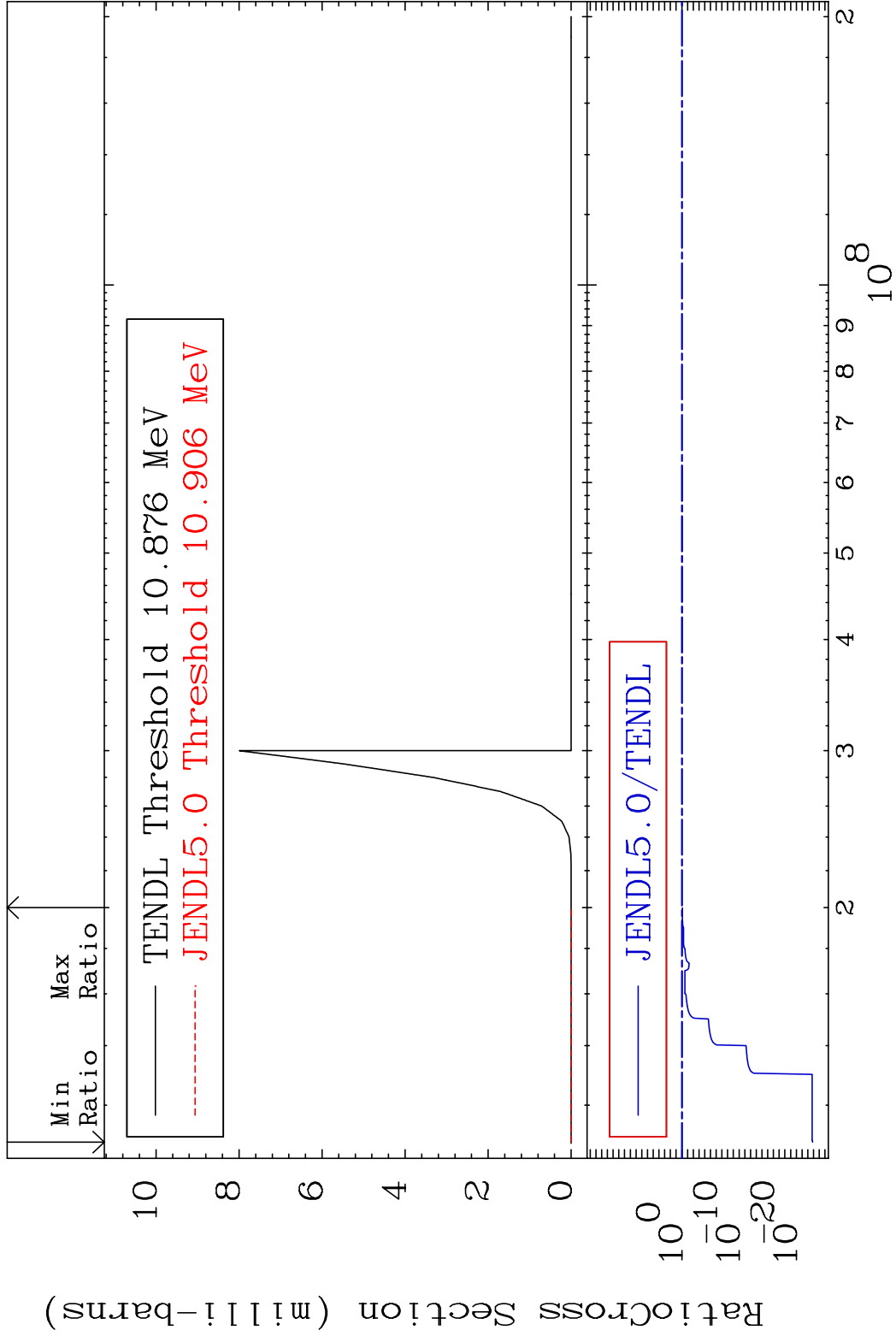


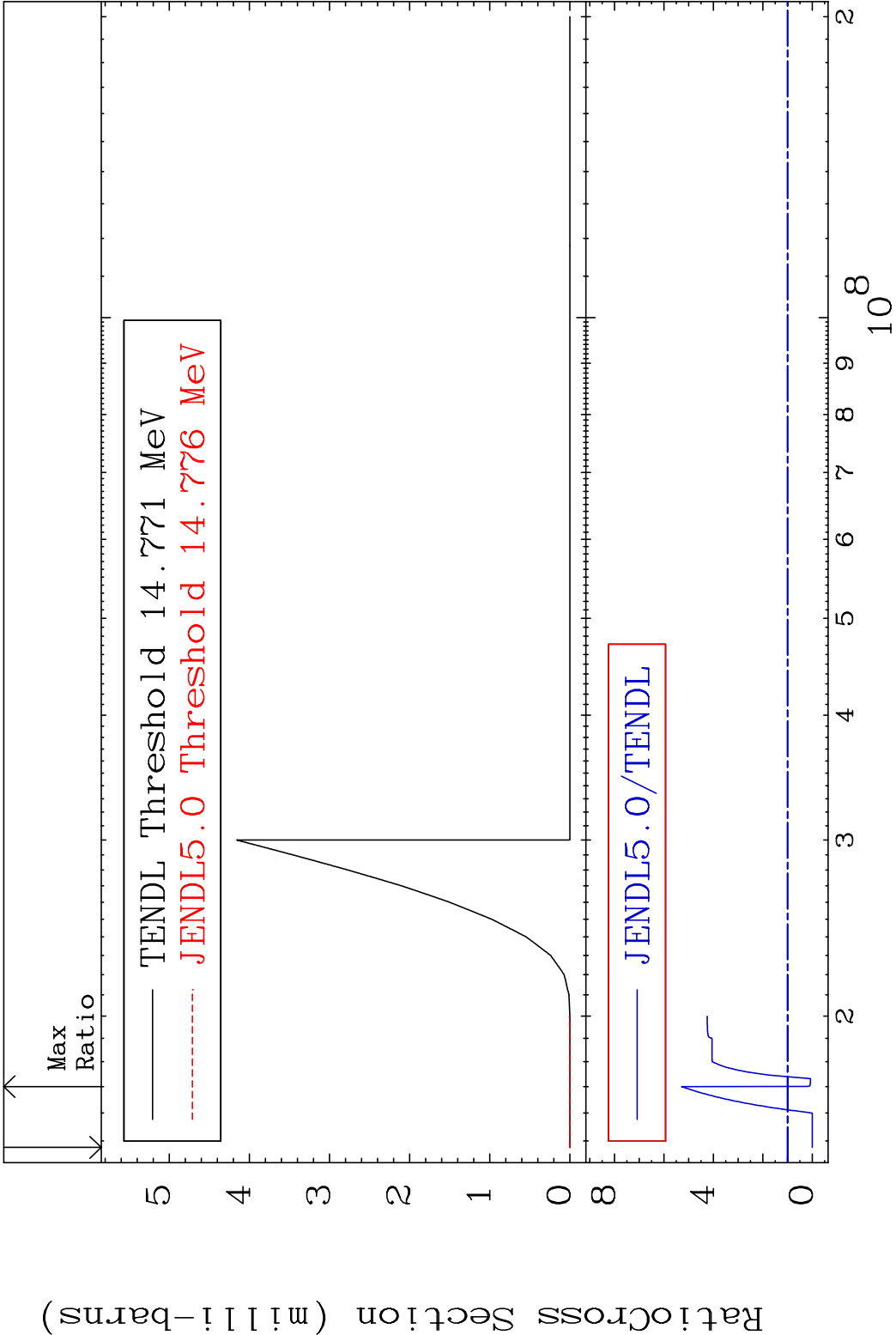
61 Incident Energy (eV) 58-Ce-138











Radionuclide Production Cross Section (barns)

