

Program Complot
(Version 2018-1)

by

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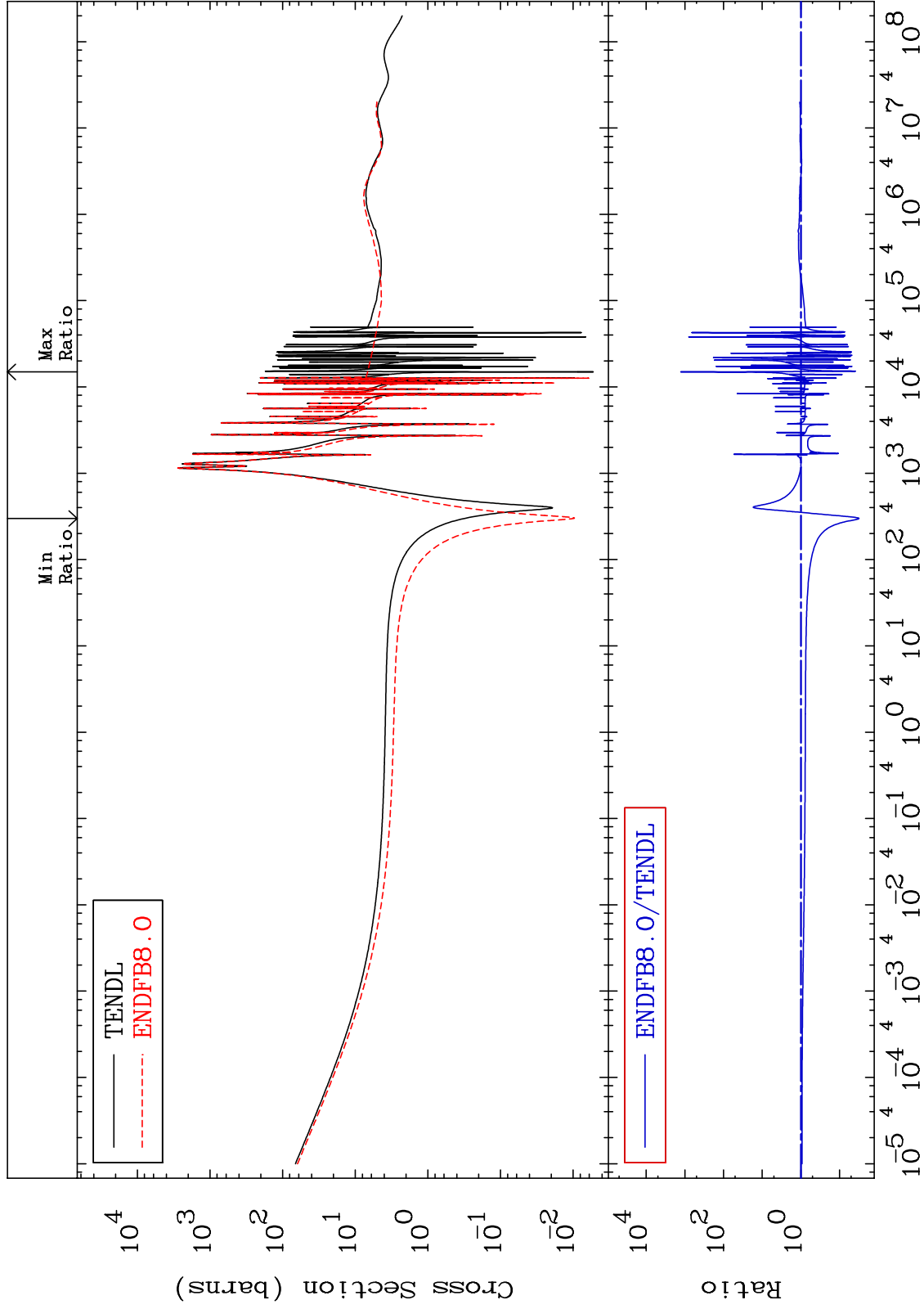
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5843

Total
Cross Section

58-Ce-142
-96.87 To 9999. %



1

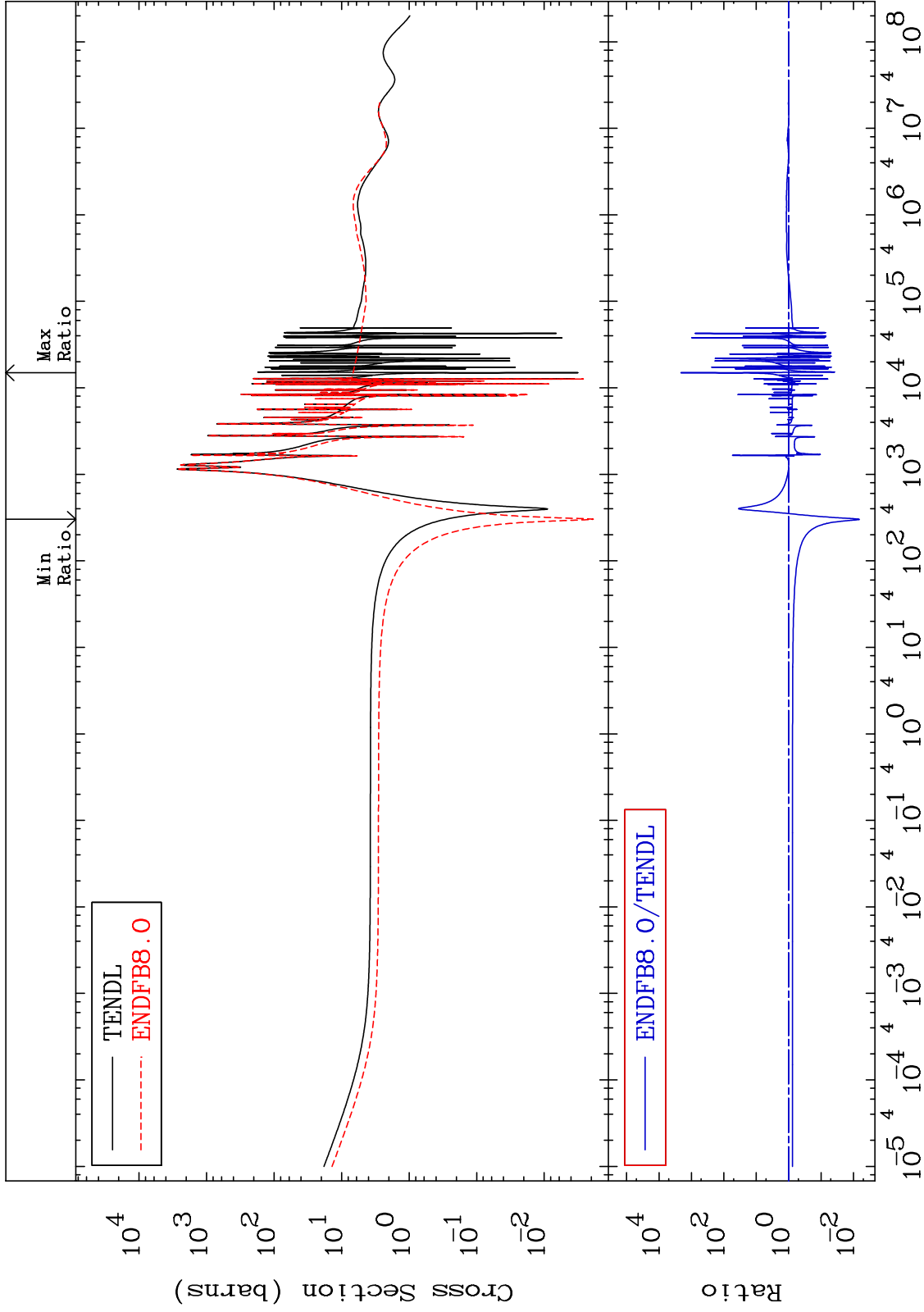
Incident Energy (eV)

58-Ce-142

MAT 5843

Elastic
Cross Section

58-Ce-142
-99.36 To 9999. %

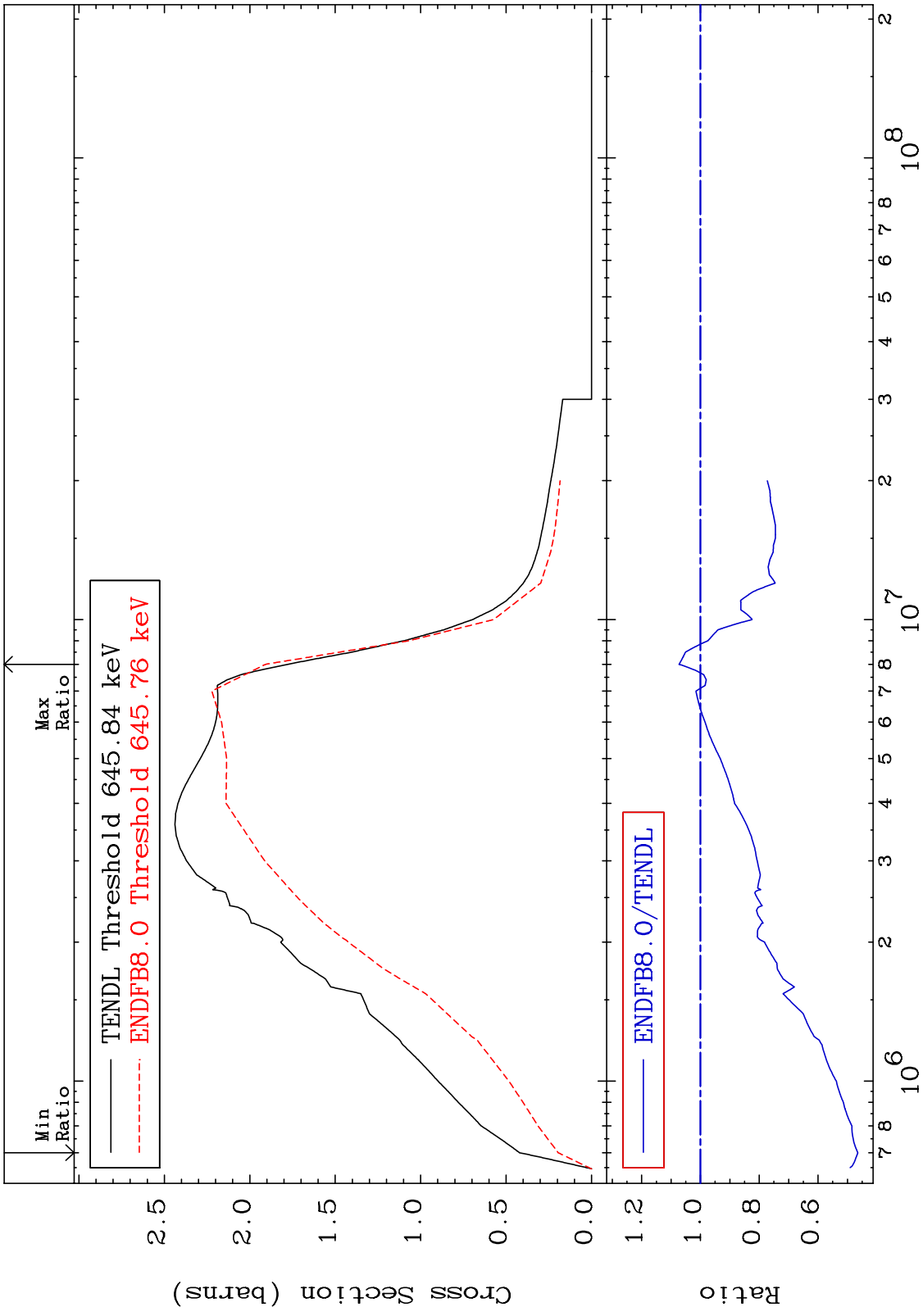


2

Incident Energy (eV)

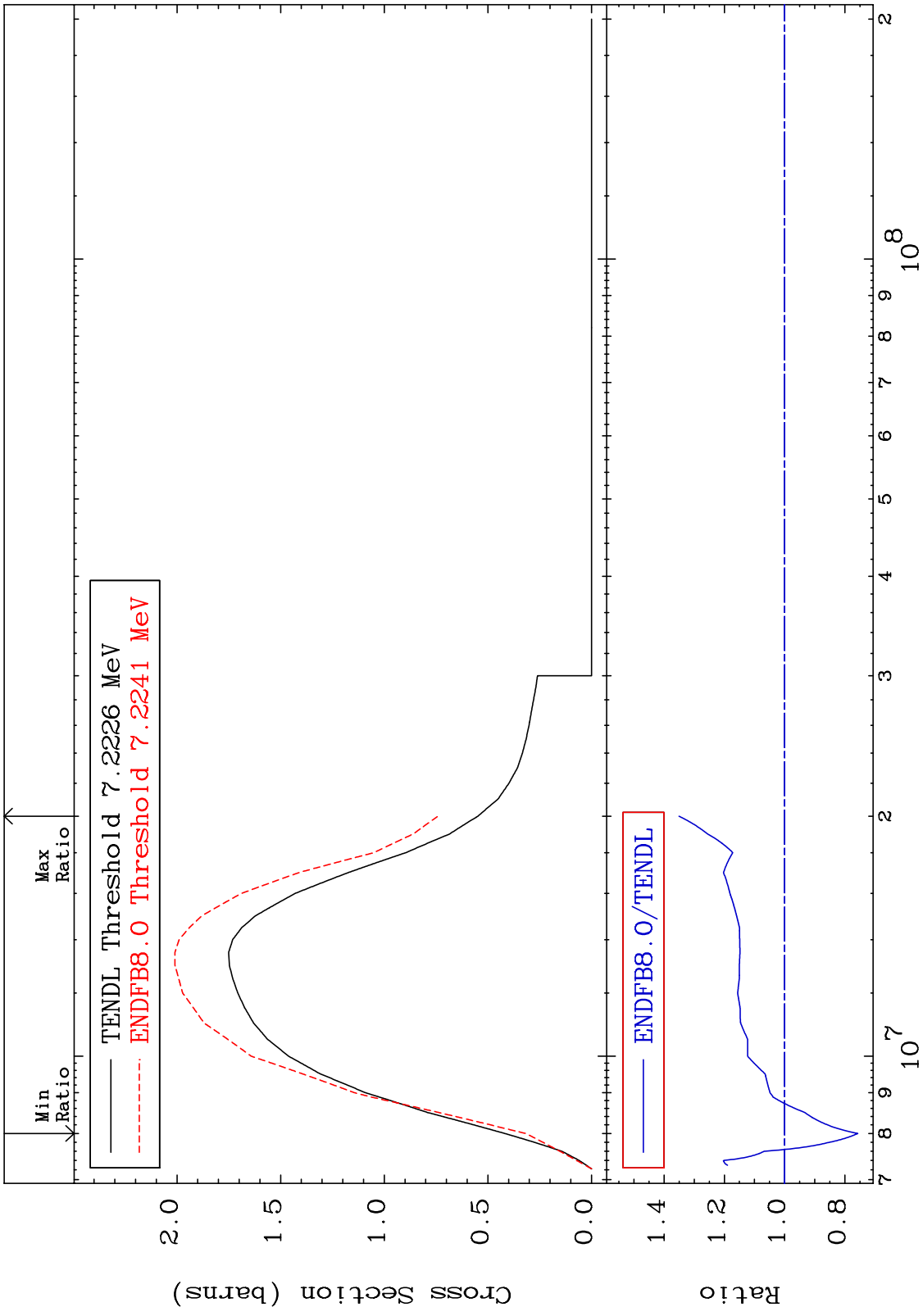
58-Ce-142

MAT 5843 Inelastic Cross Section 58-Ce-142 -53.54 To 7.283 %



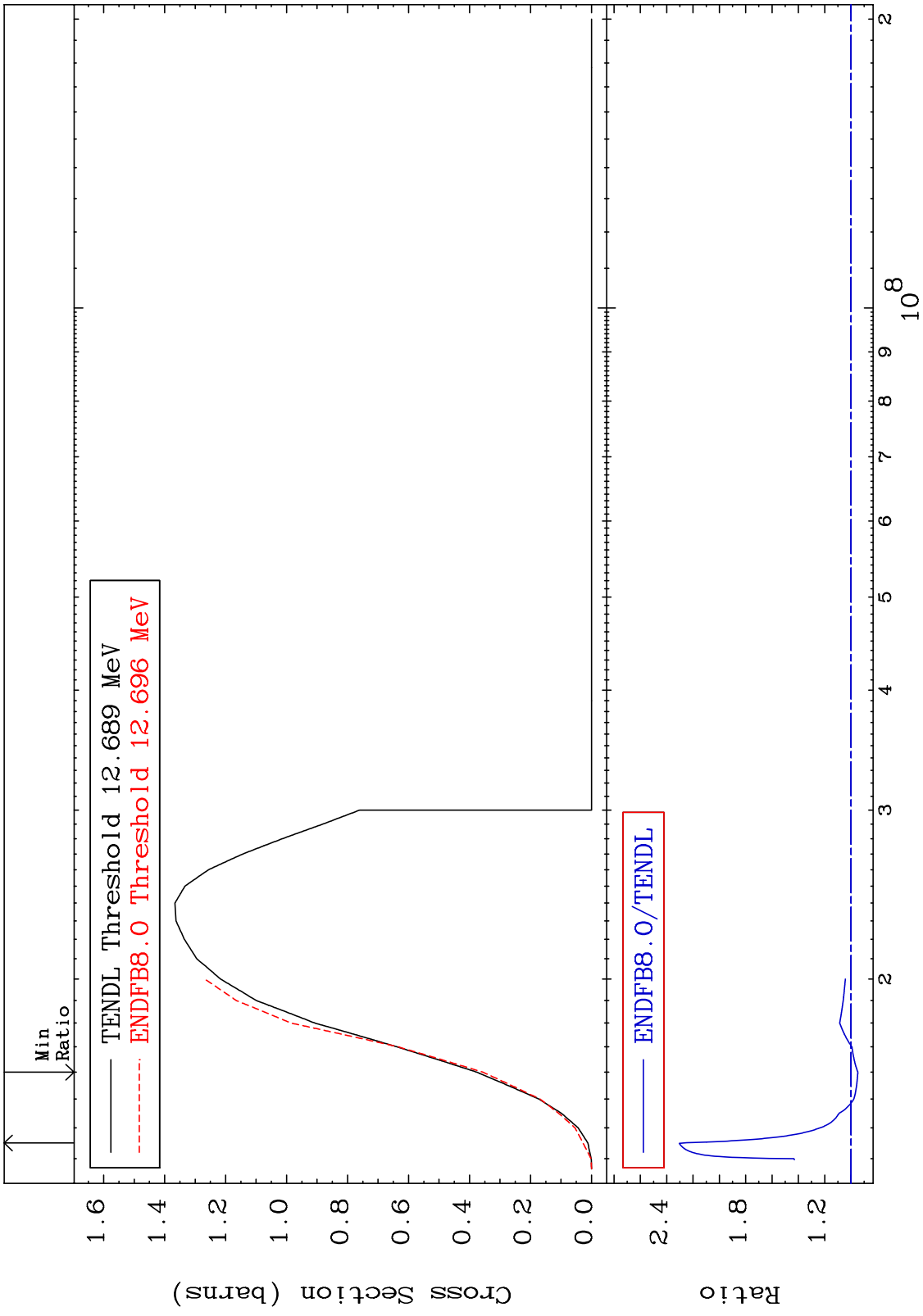
3 Incident Energy (eV) 58-Ce-142

MAT 5843 (n,2n) Cross Section 58-Ce-142 -24.30 To 35.03 %

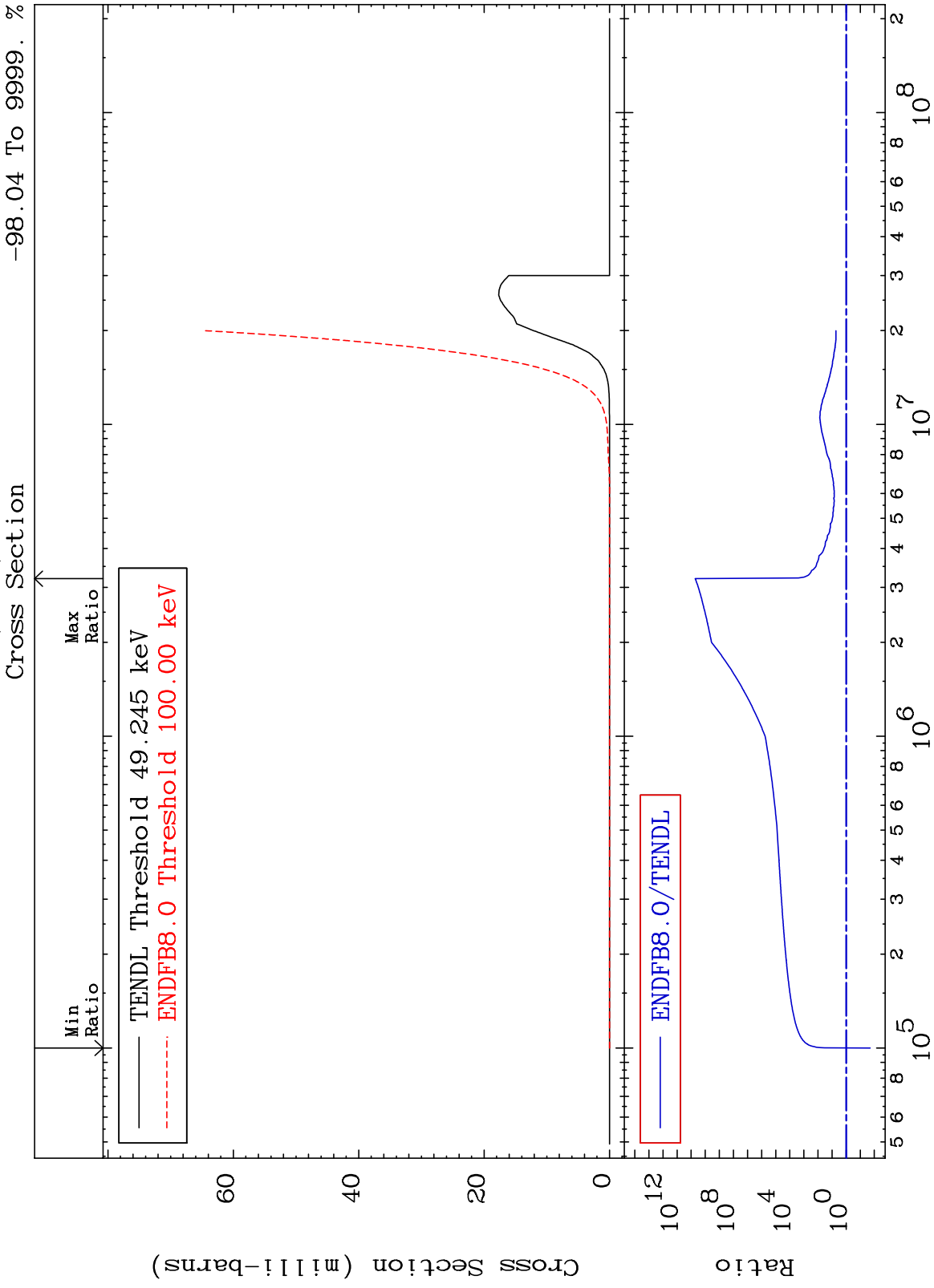


4 58-Ce-142

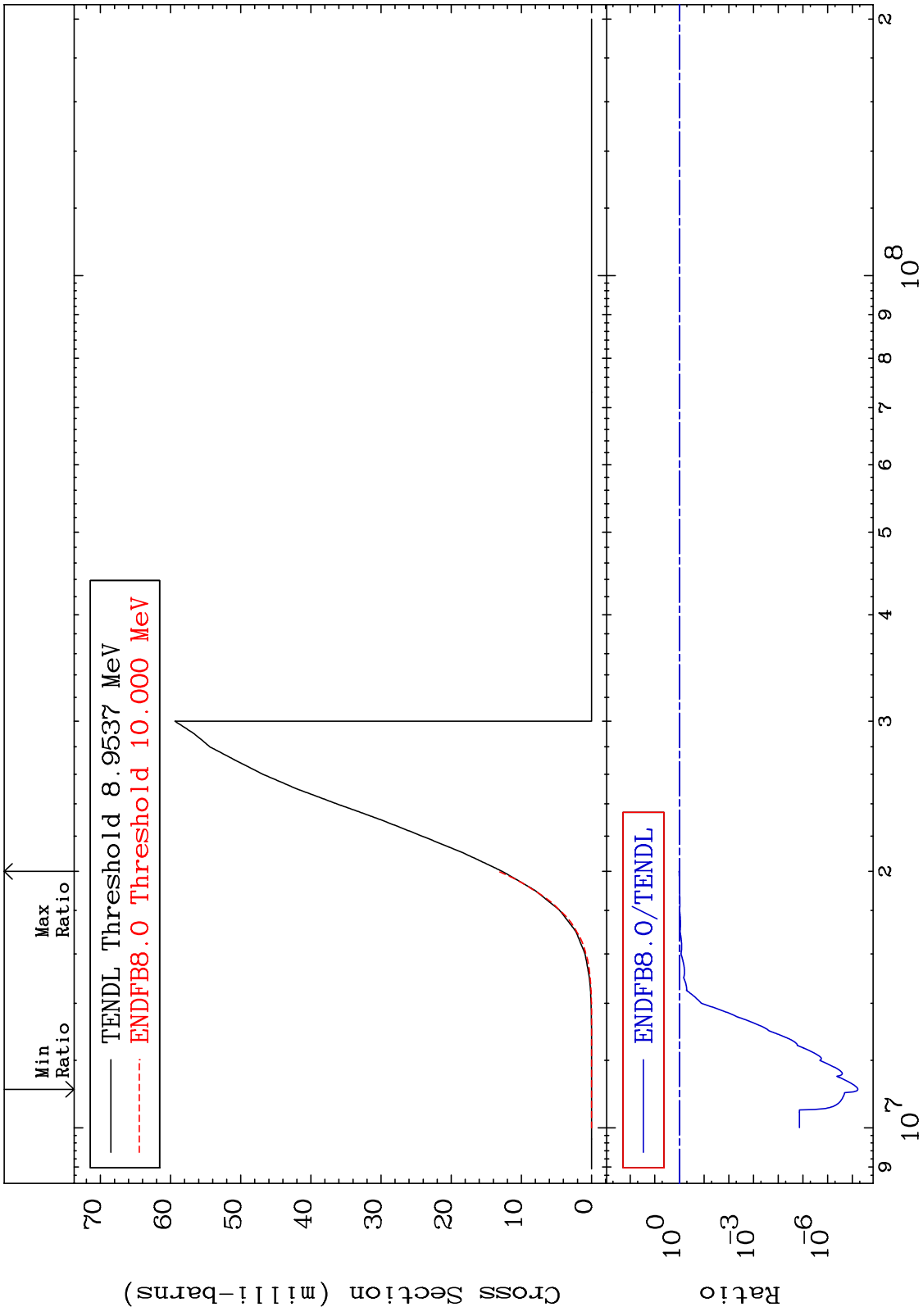
MAT 5843 (n,3n) Cross Section 58-Ce-142 -5.178 To 130.6 %



MAT 5843 $(n, n') \alpha$ 58-Ce-142 -98.04 To 9999. %

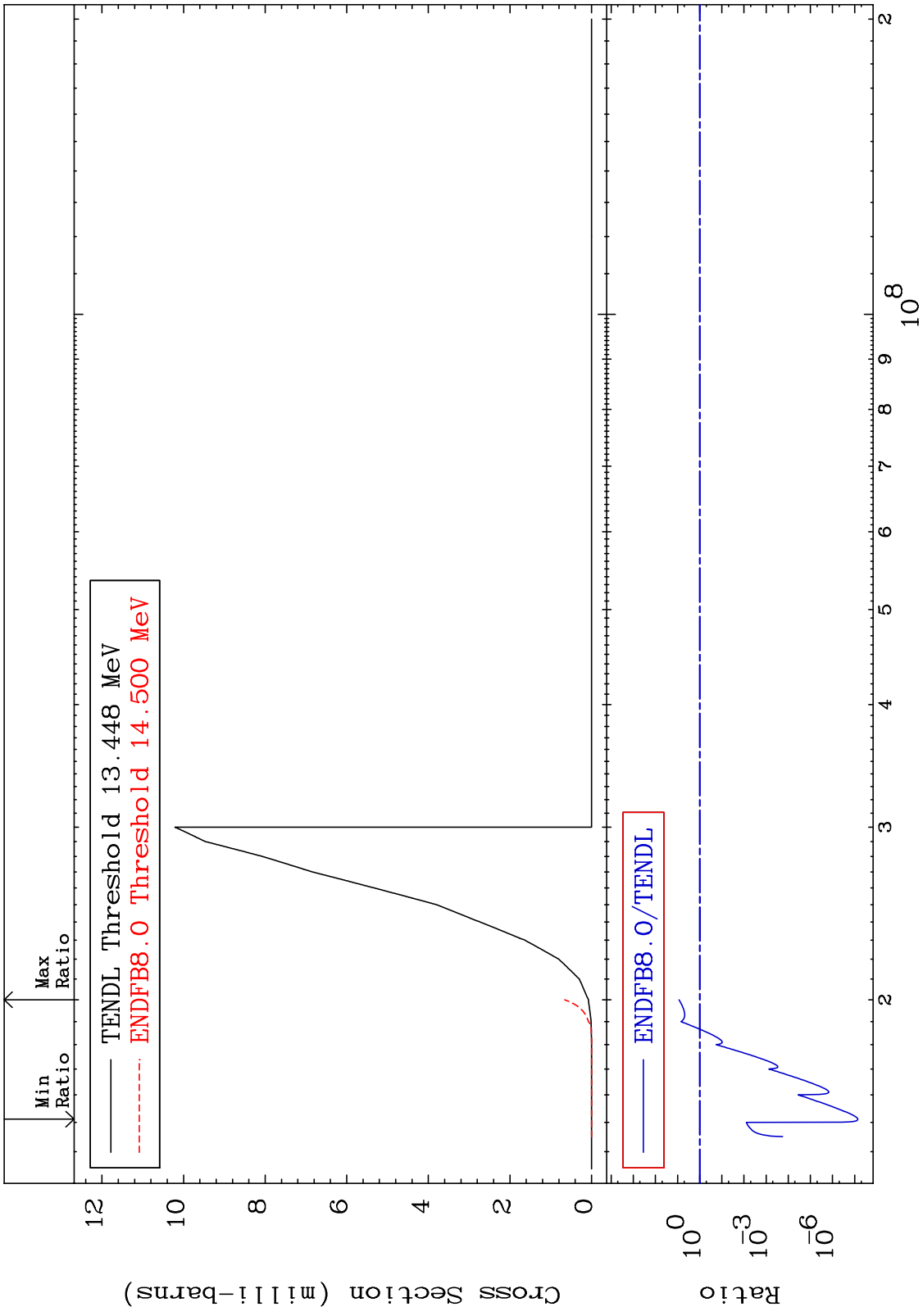


MAT 5843 (n, n') p 58-Ce-142
 Cross Section -100.0 To 4.376 %

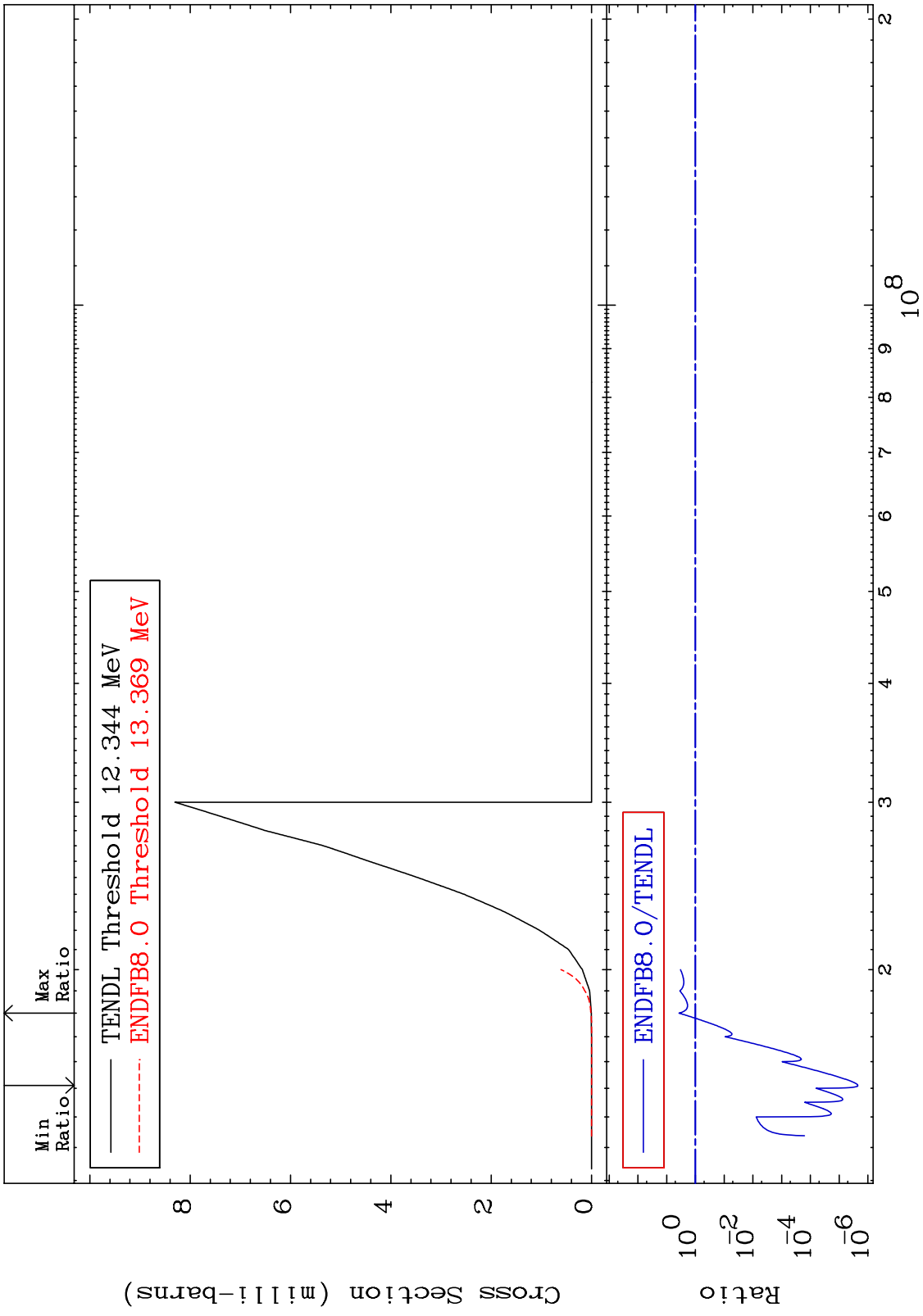


Incident Energy (eV) 58-Ce-142

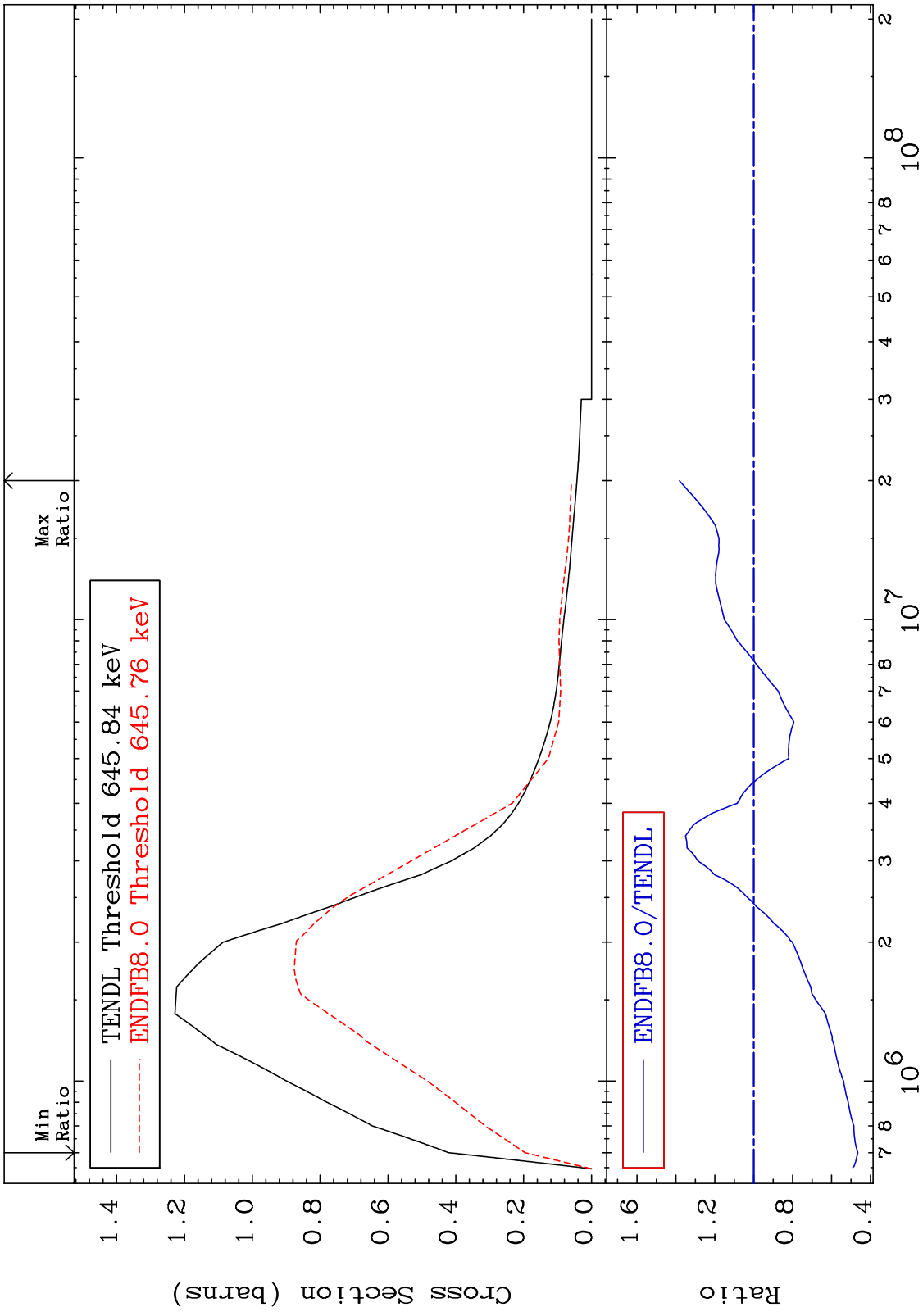
MAT 5843 (n,n') d 58-Ce-142
 Cross Section -100.0 To 756.7 %



MAT 5843 (n,n') t 58-Ce-142
 Cross Section -100.0 To 271.0 %

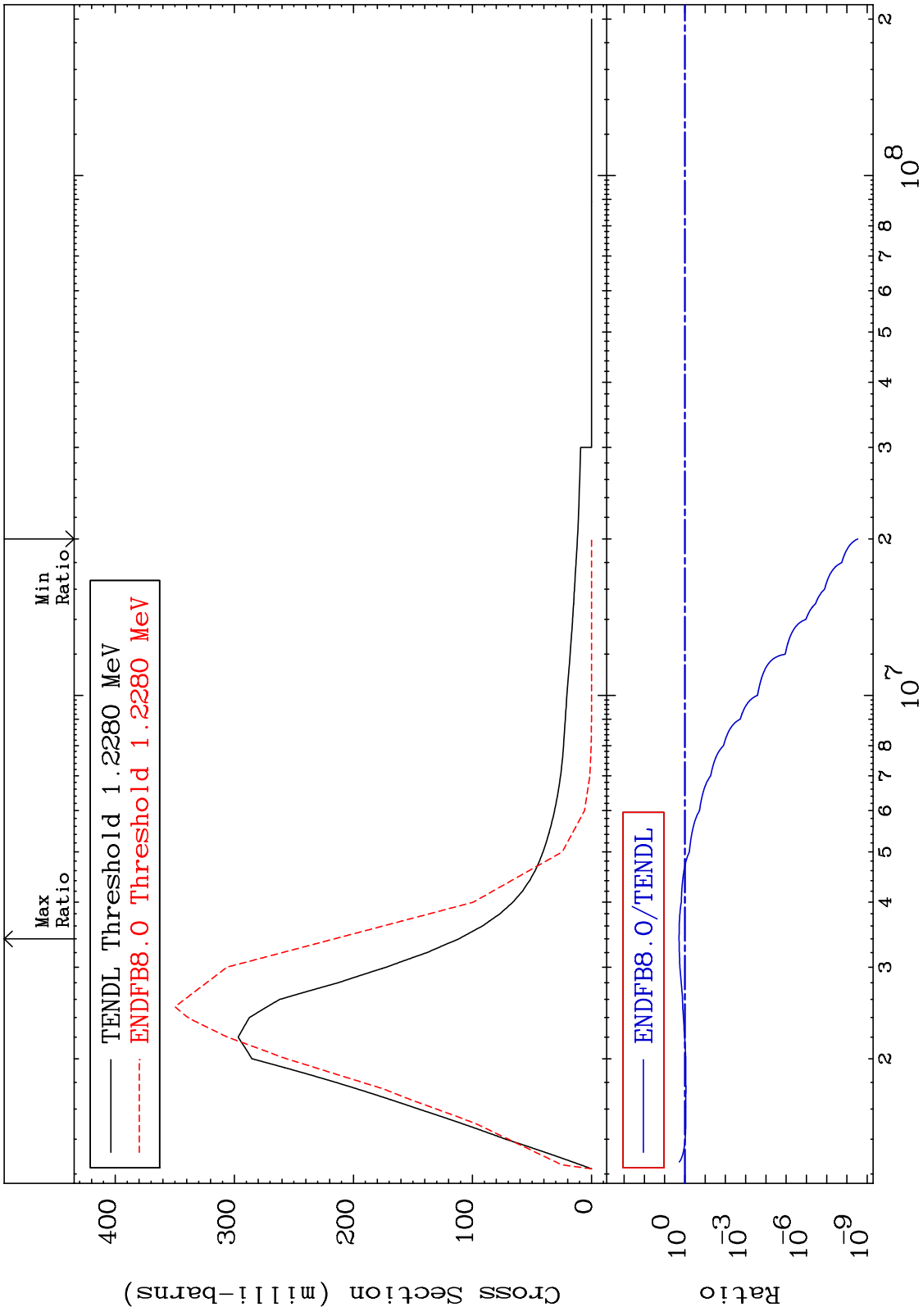


MAT 5843 MT= 51 (n,n') Level Cross Section 58-Ce-142 -53.54 To 38.40 %

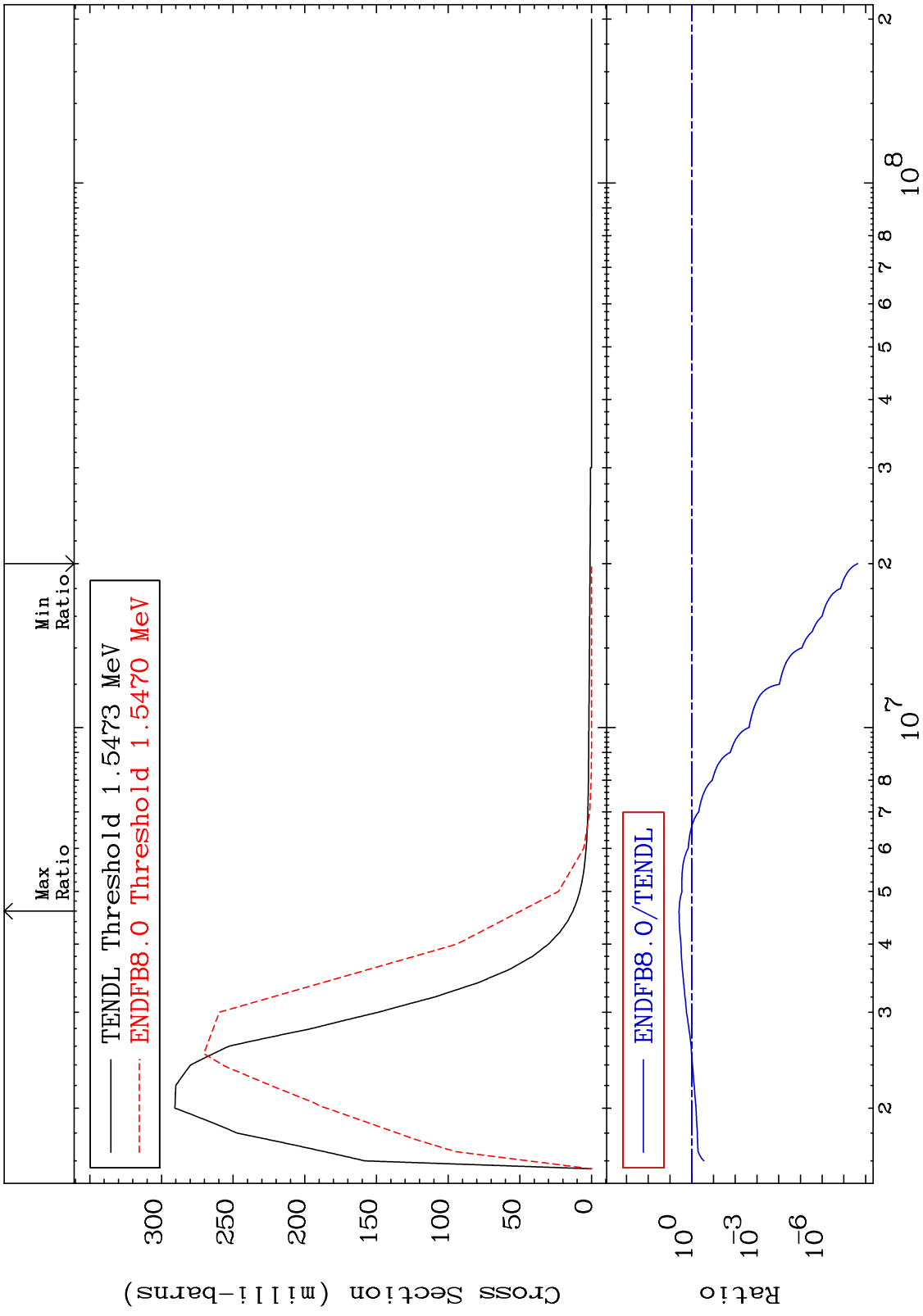


10 Incident Energy (eV) 58-Ce-142

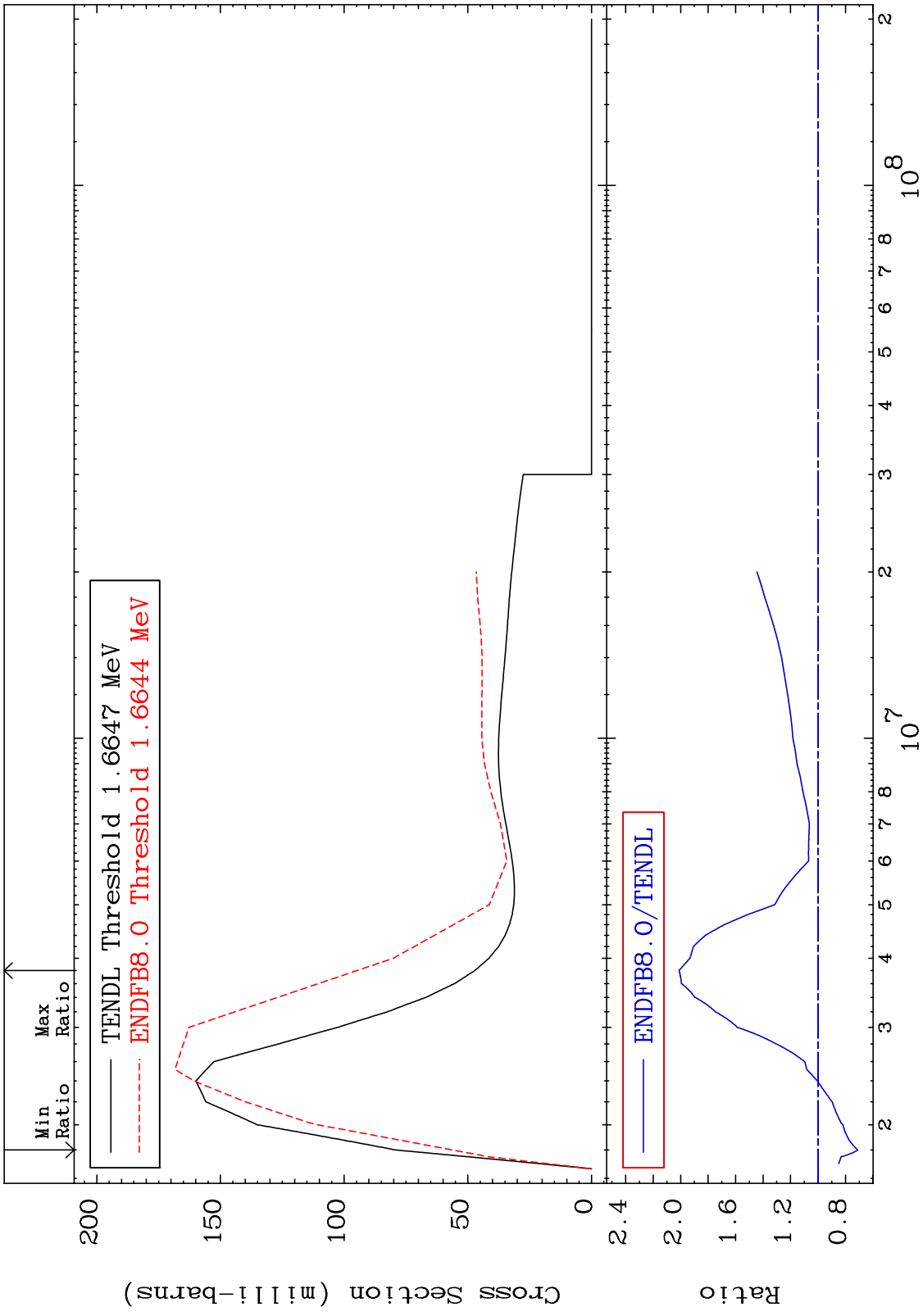
MAT 5843 MT= 52 (n,n') Level Cross Section 58-Ce-142
 -100.0 To 93.89 %



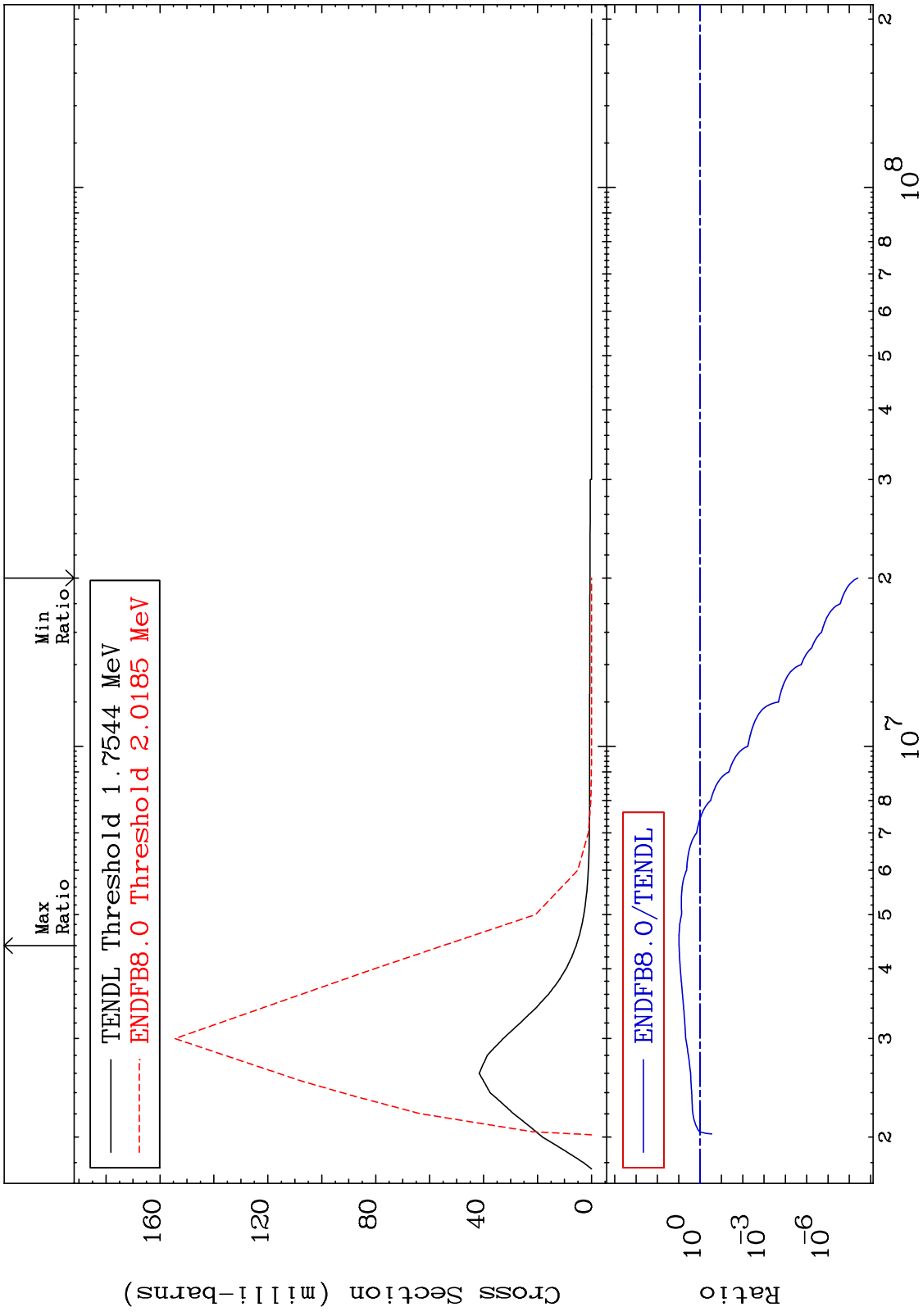
MAT 5843 MT= 53 (n,n') Level Cross Section 58-Ce-142 -100.0 To 282.5 %



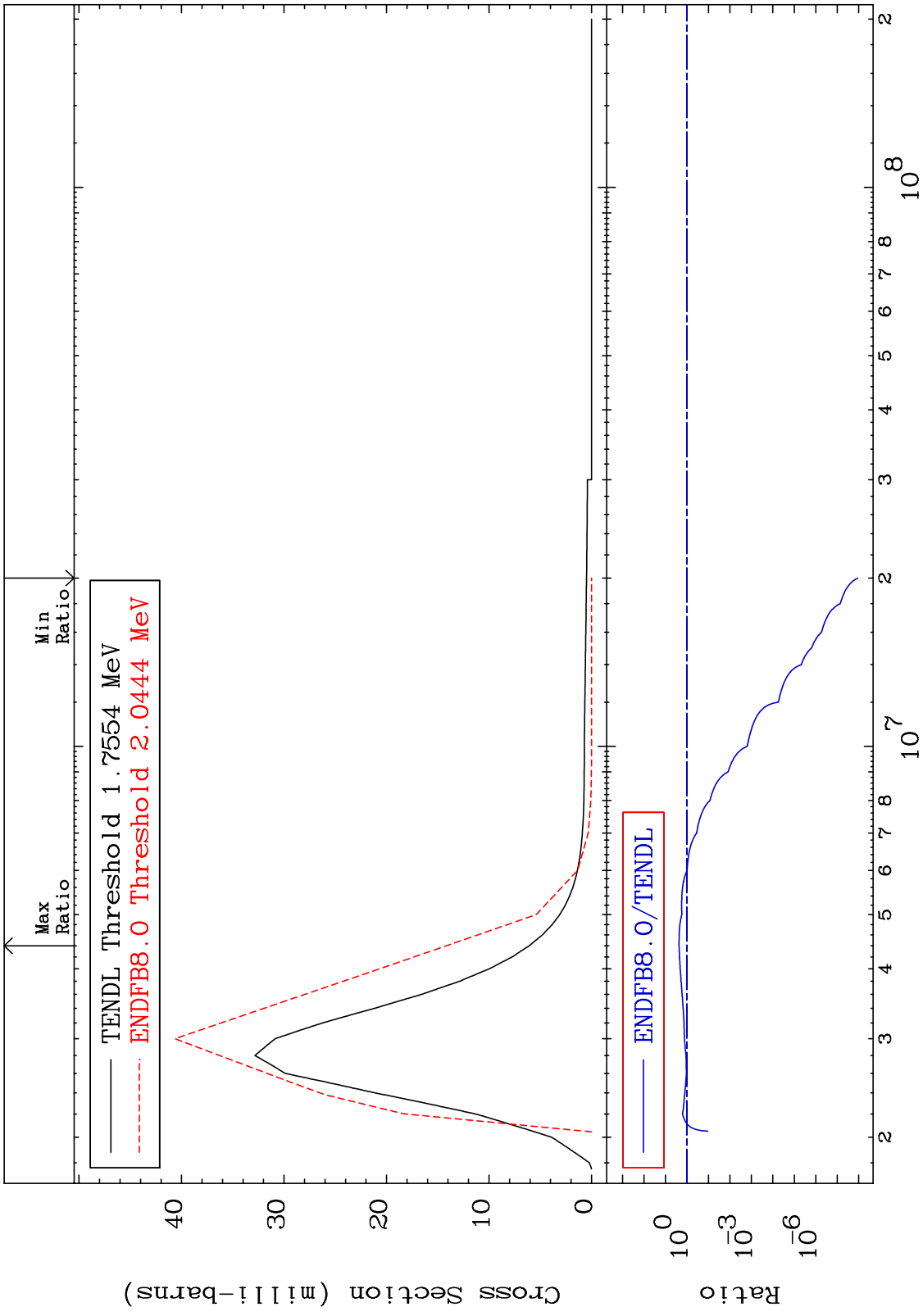
MAT 5843 MT= 54 (n,n') Level Cross Section 58-Ce-142 -28.99 To 101.2 %



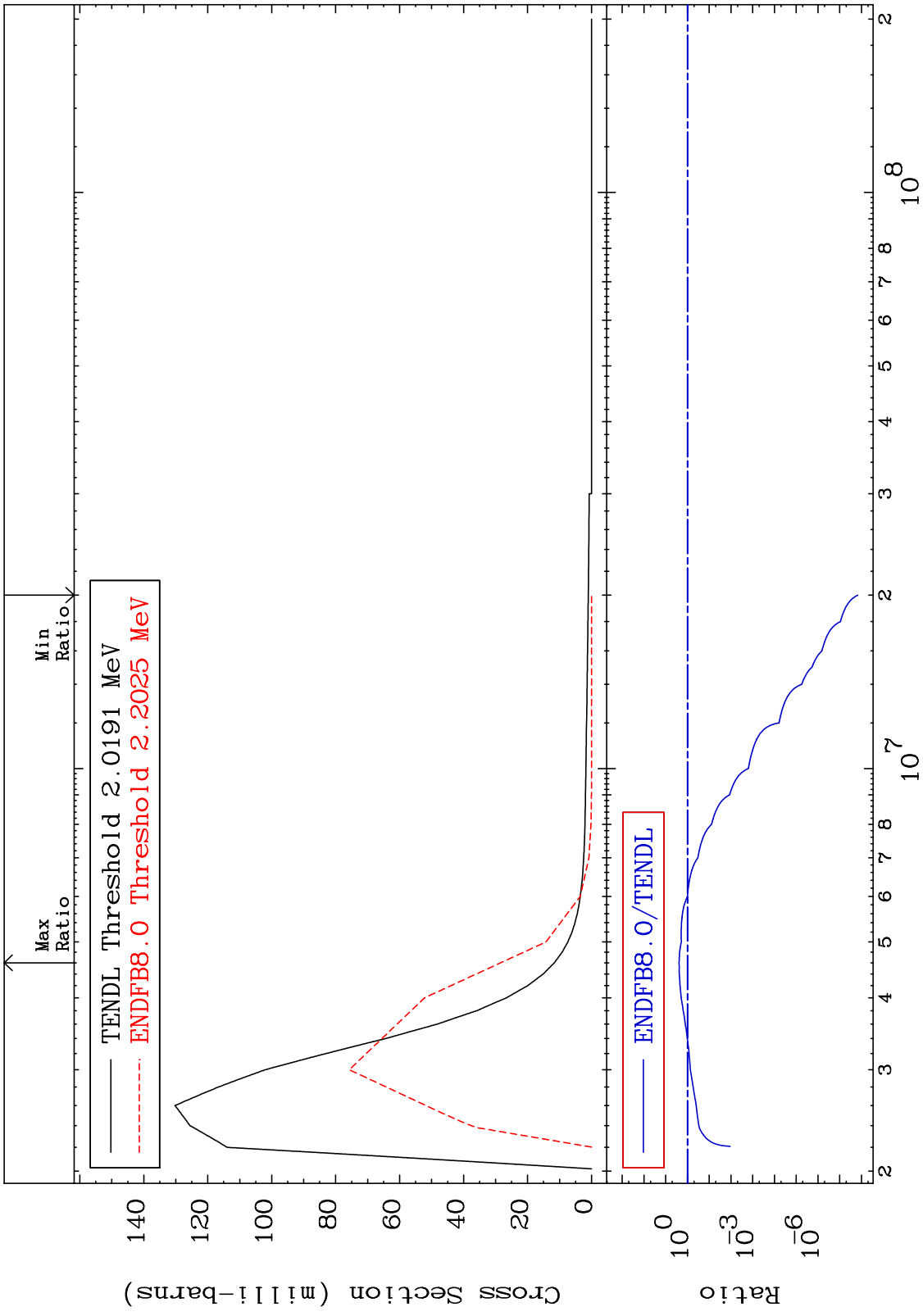
MAT 5843 MT= 55 (n,n') Level Cross Section 58-Ce-142
 -100.0 To 867.6 %



MAT 5843 MT= 56 (n,n') Level Cross Section 58-Ce-142 -100.0 To 133.2 %

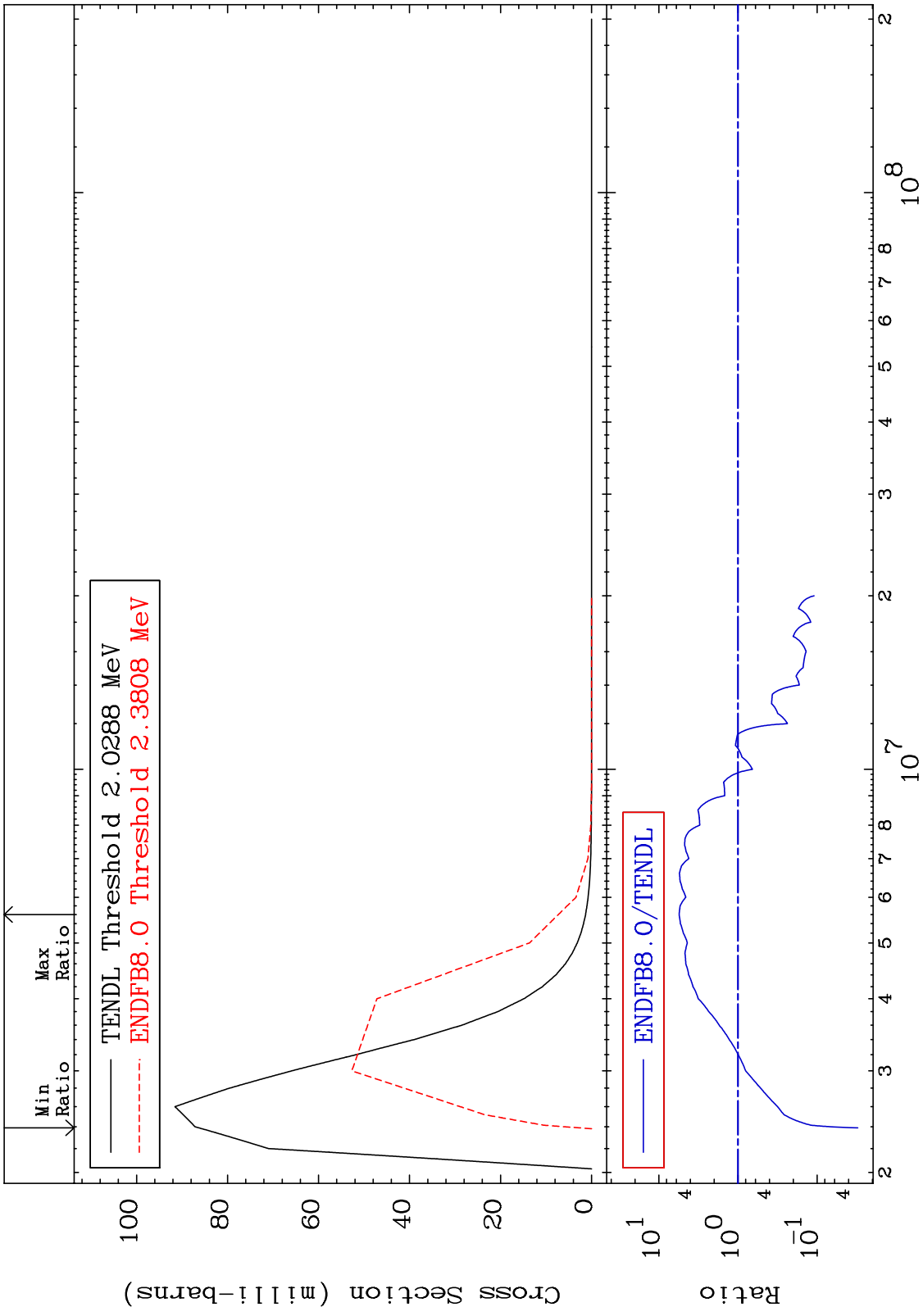


MAT 5843 MT= 57 (n,n') Level Cross Section 58-Ce-142 -100.0 To 144.2 %

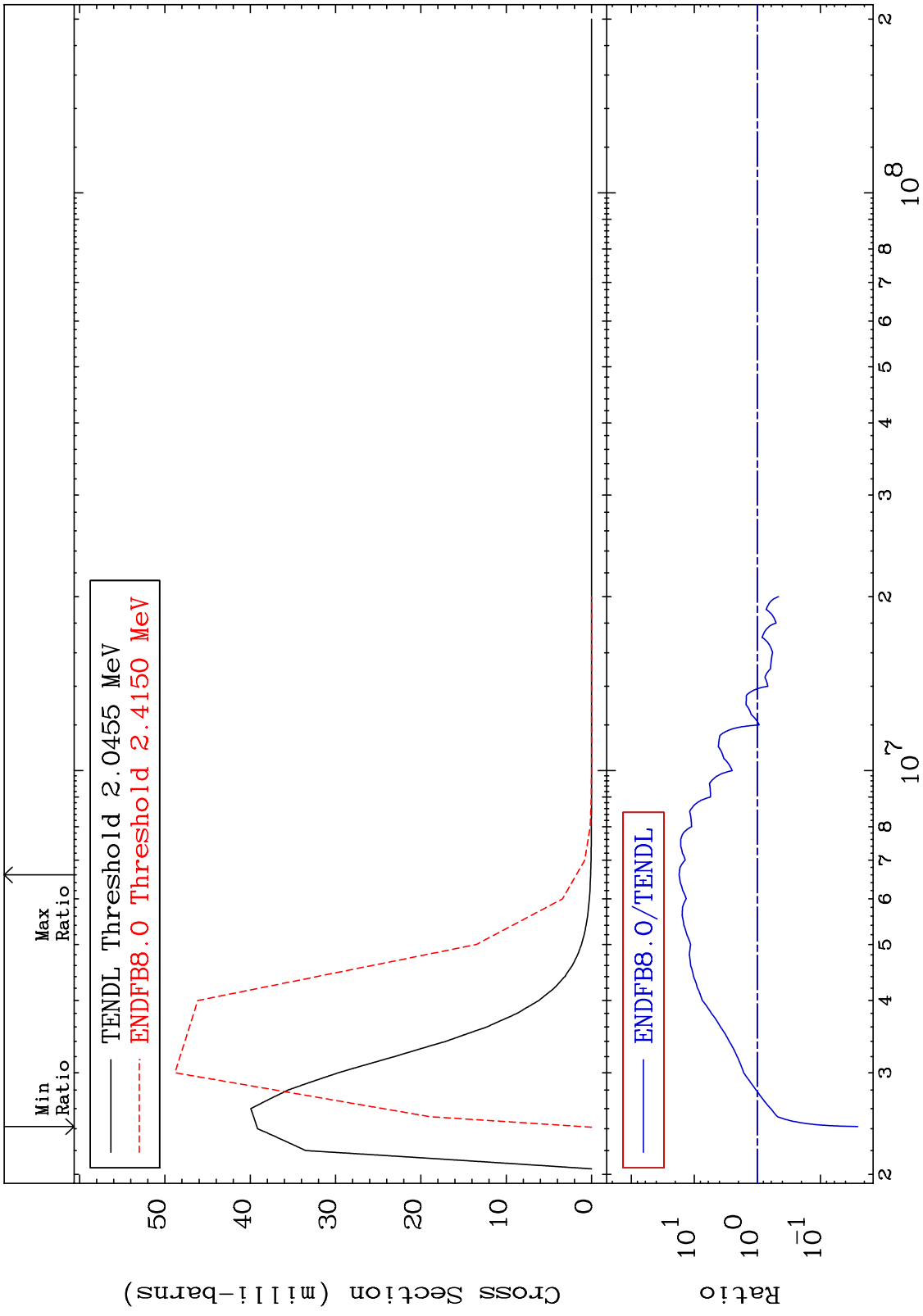


16 58-Ce-142

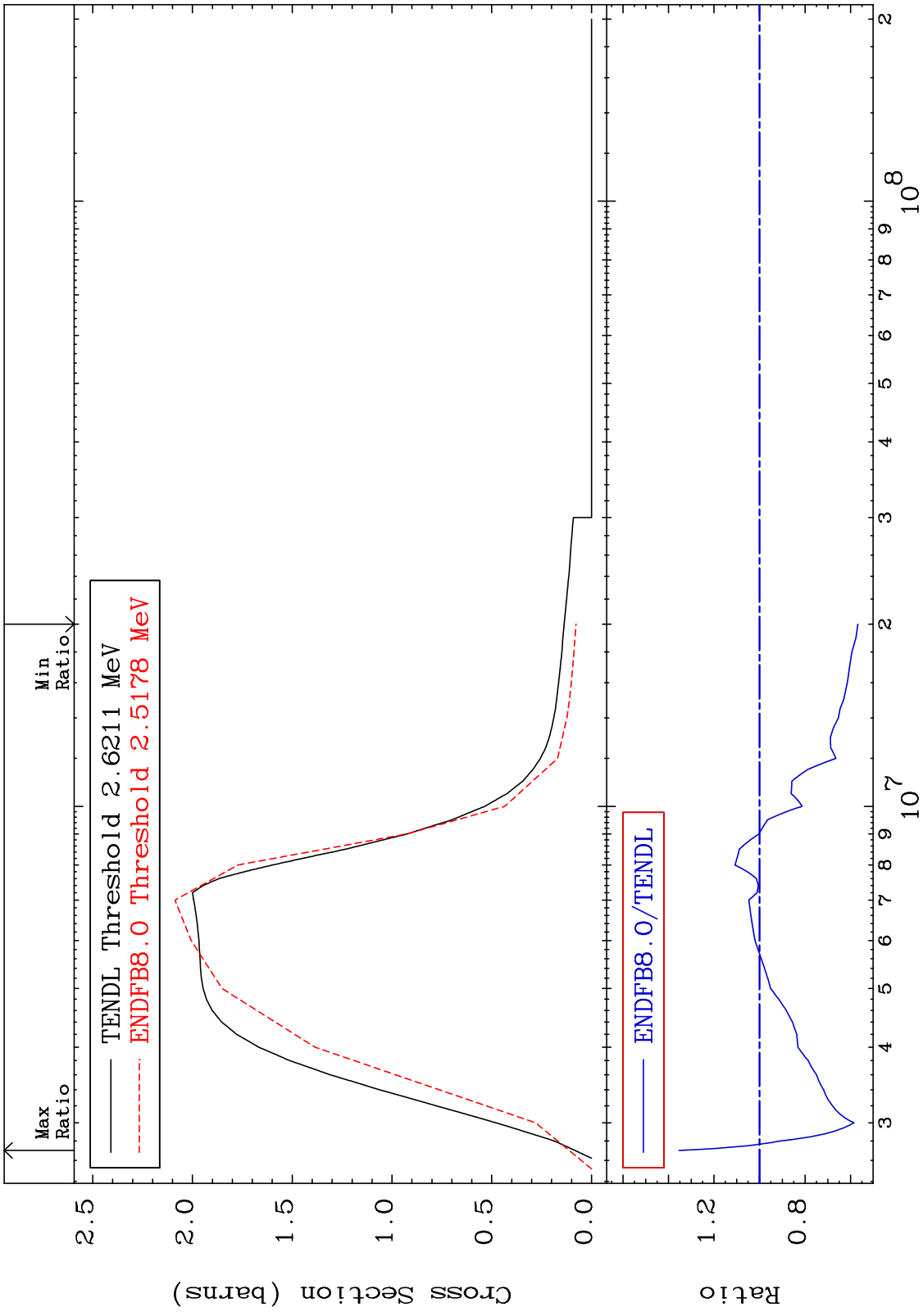
MAT 5843 MT= 58 (n,n') Level Cross Section 58-Ce-142 -96.94 To 455.3 %



MAT 5843 MT= 59 (n,n') Level Cross Section 58-Ce-142 -97.46 To 1644. %



MAT 5843 (n,n') Continuum Cross Section 58-Ce-142 -43.22 To 35.37 %



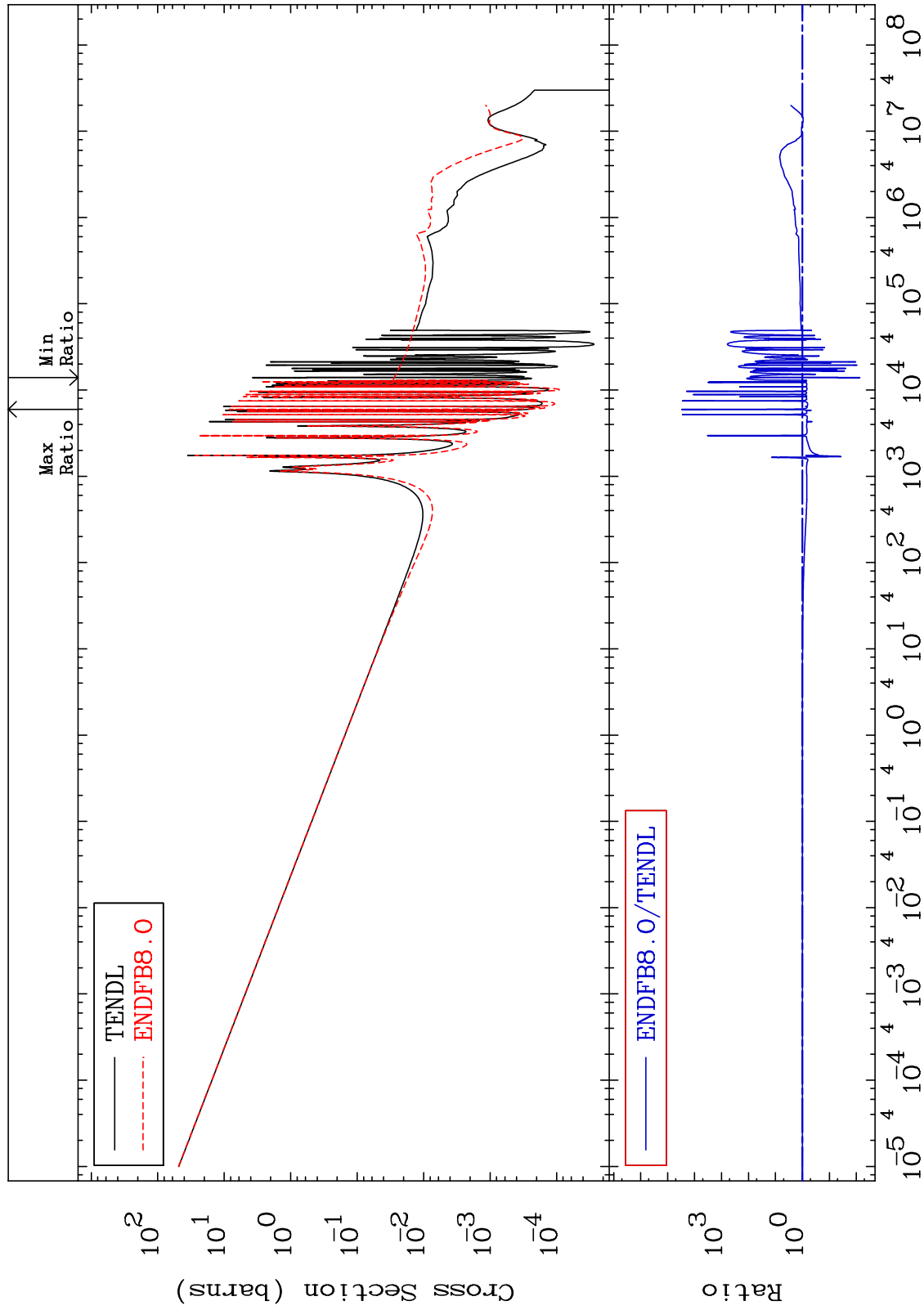
MAT 5843

(n, γ)

58-Ce-142

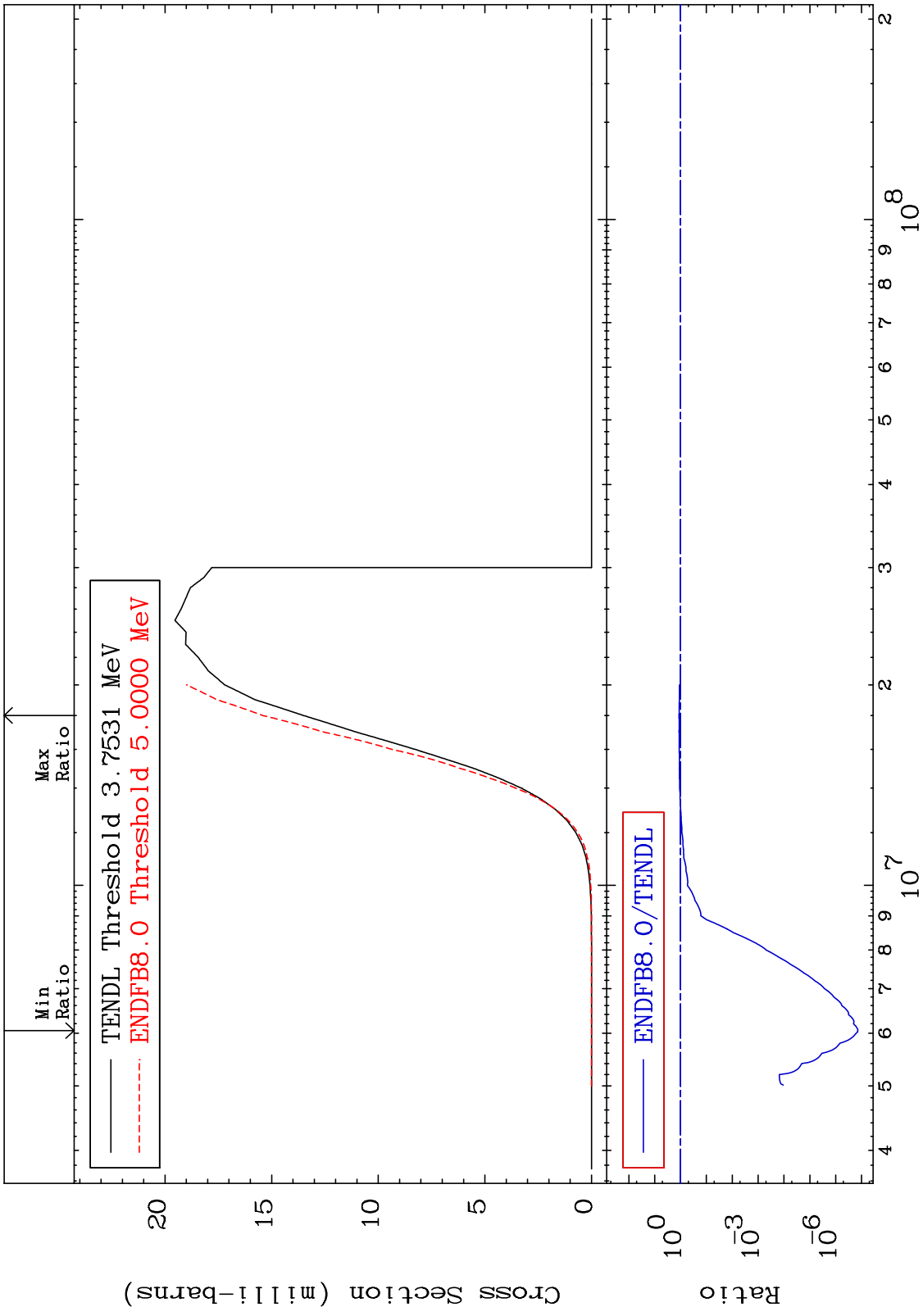
Cross Section

-99.26 To 9999. %

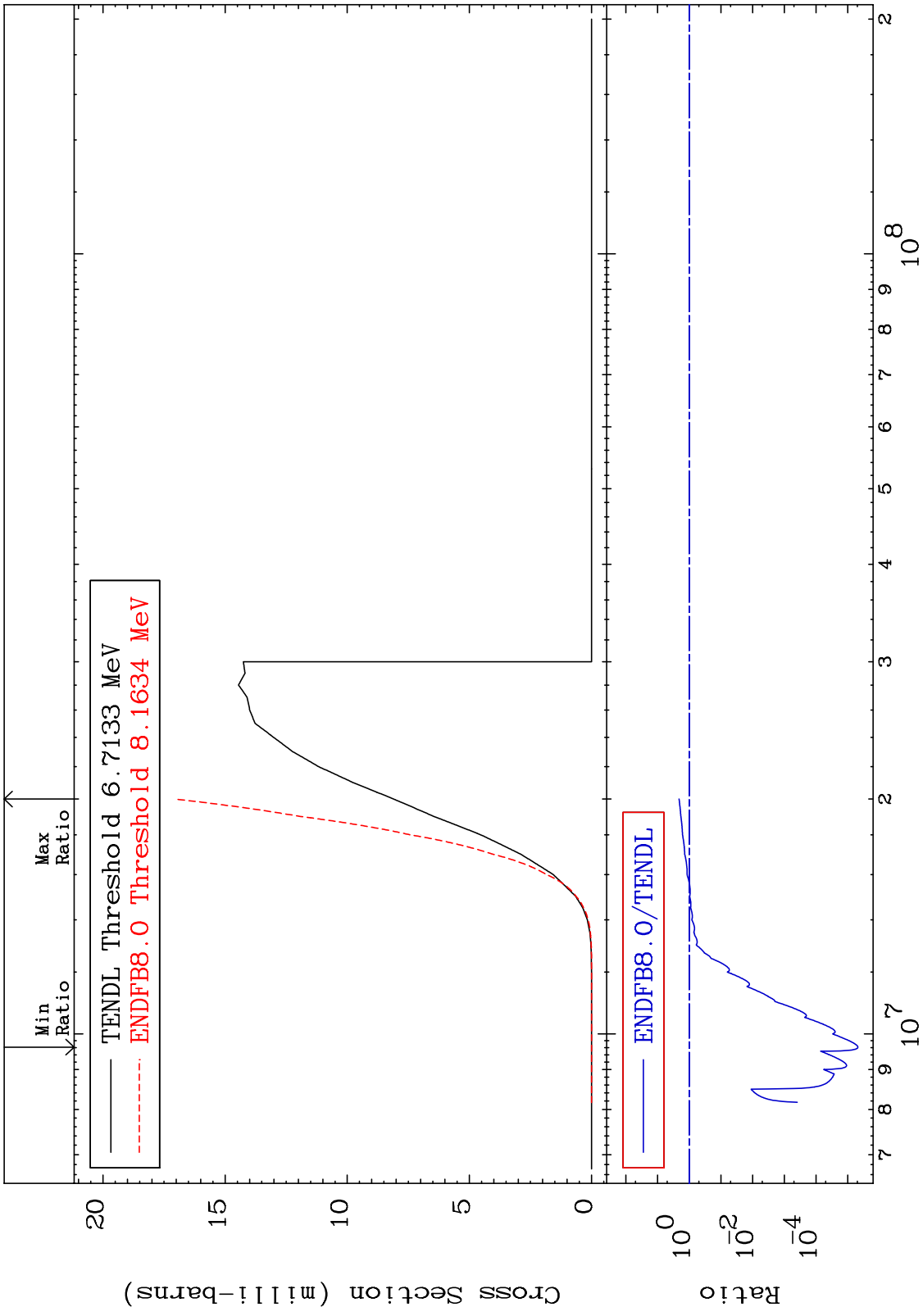


MAT 5843 58-Ce-142
-100.0 To 14.14 %

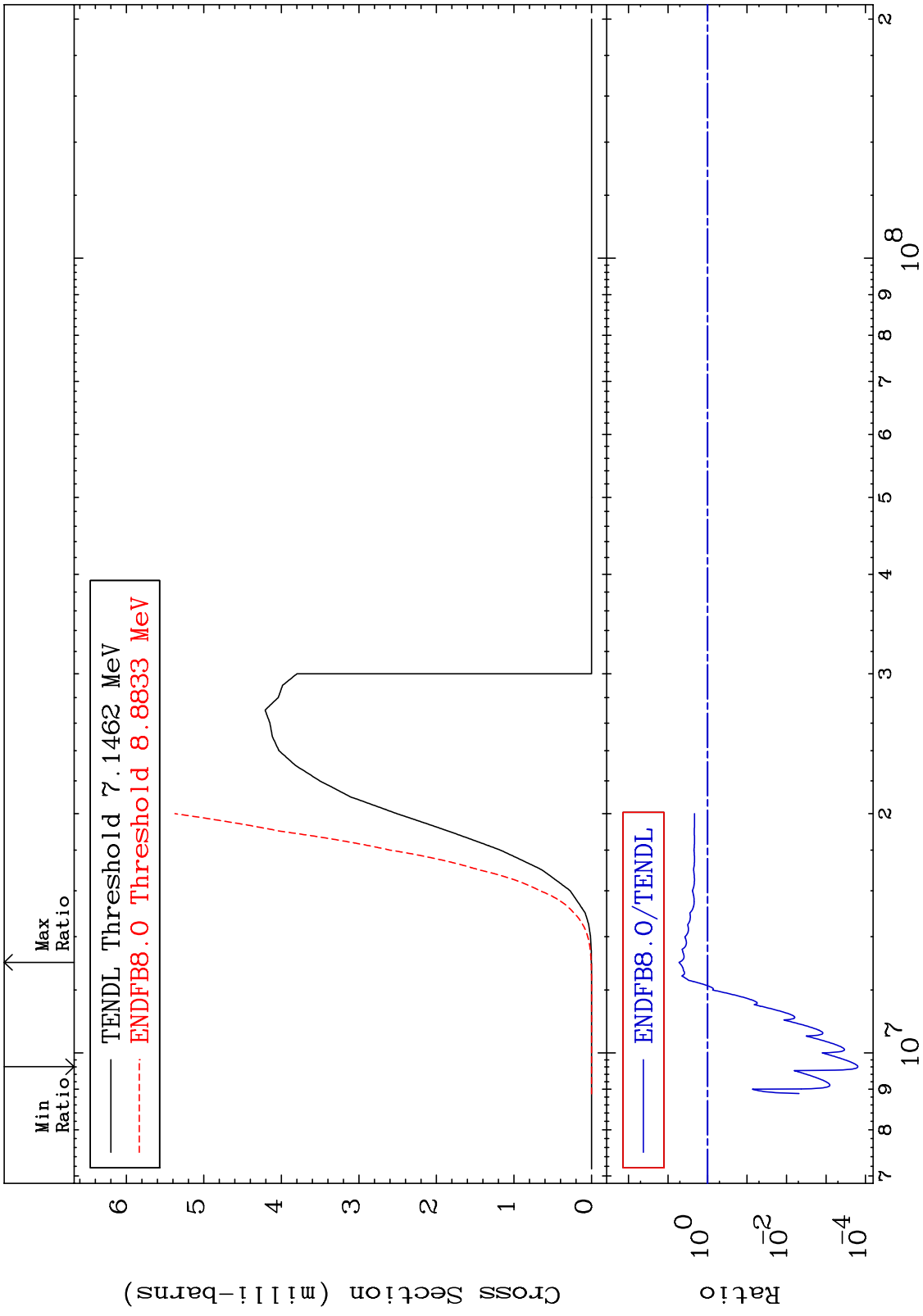
(n,p)
 Cross Section



MAT 5843 (n,d) Cross Section 58-Ce-142 -100.0 To 110.4 %



MAT 5843 (n,t) Cross Section 58-Ce-142 -99.98 To 426.4 %



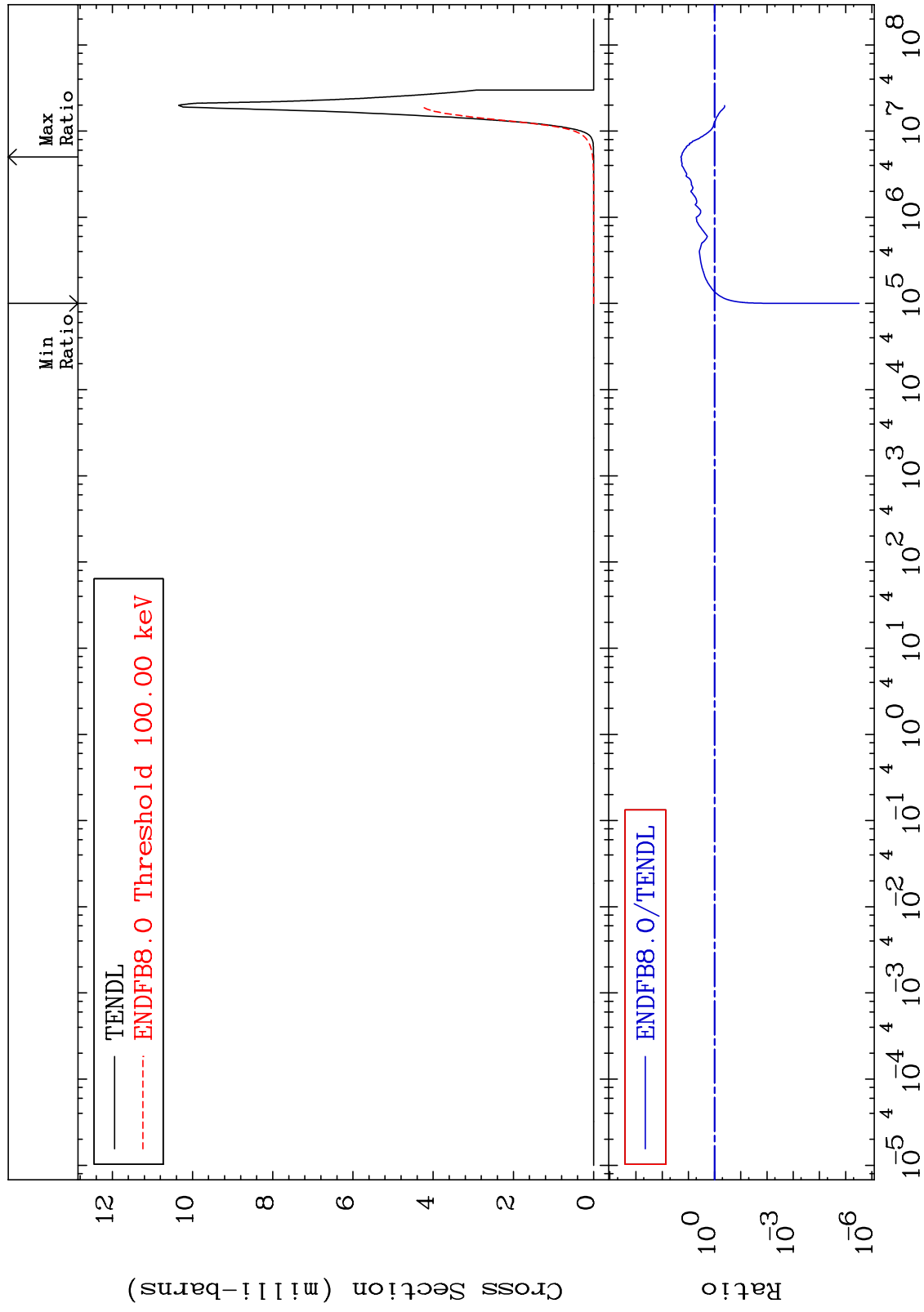
MAT 5843

(n, α)

58-Ce-142

Cross Section

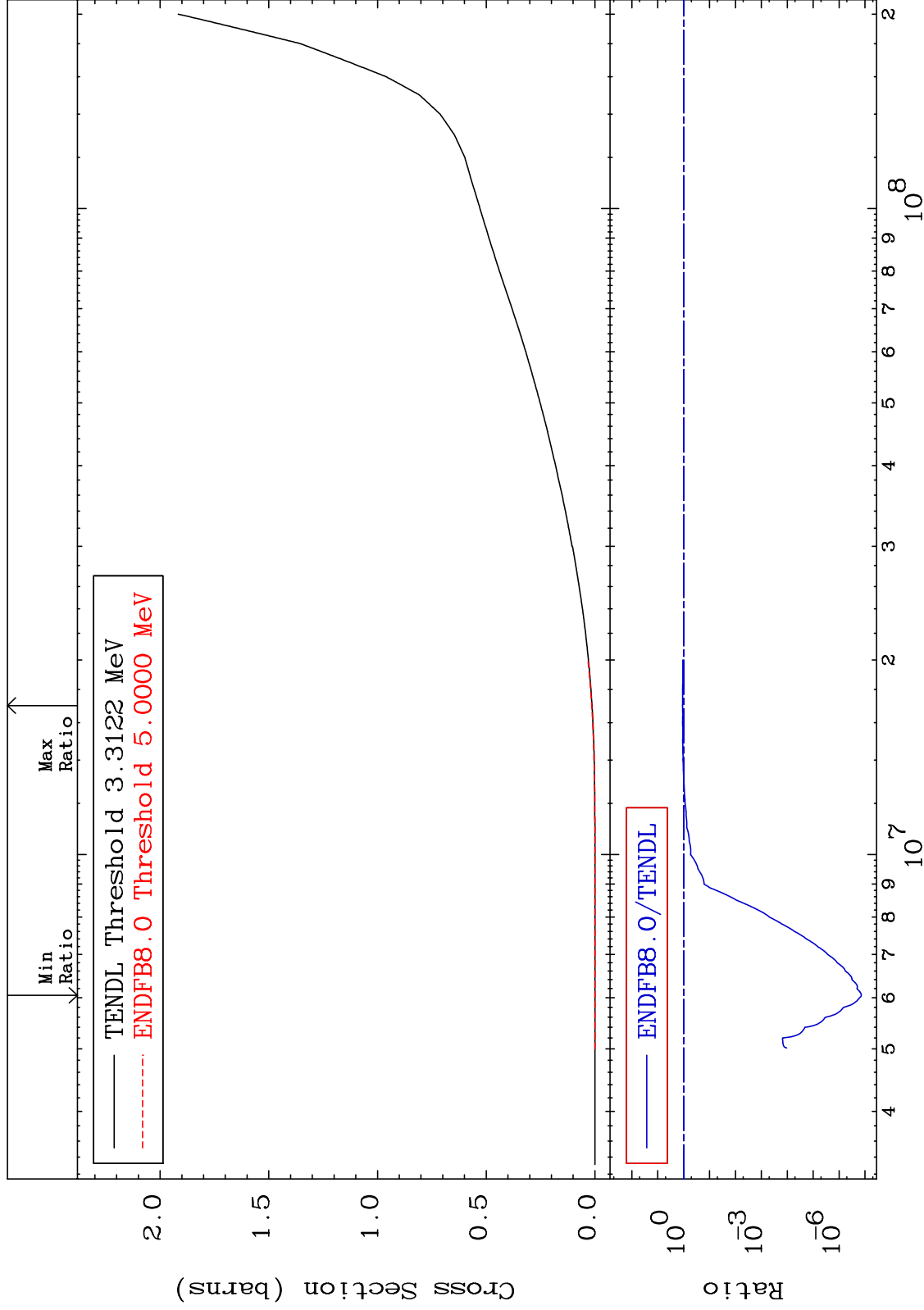
-100.0 To 1836. %



MAT 5843

Hydrogen Production
Cross Section

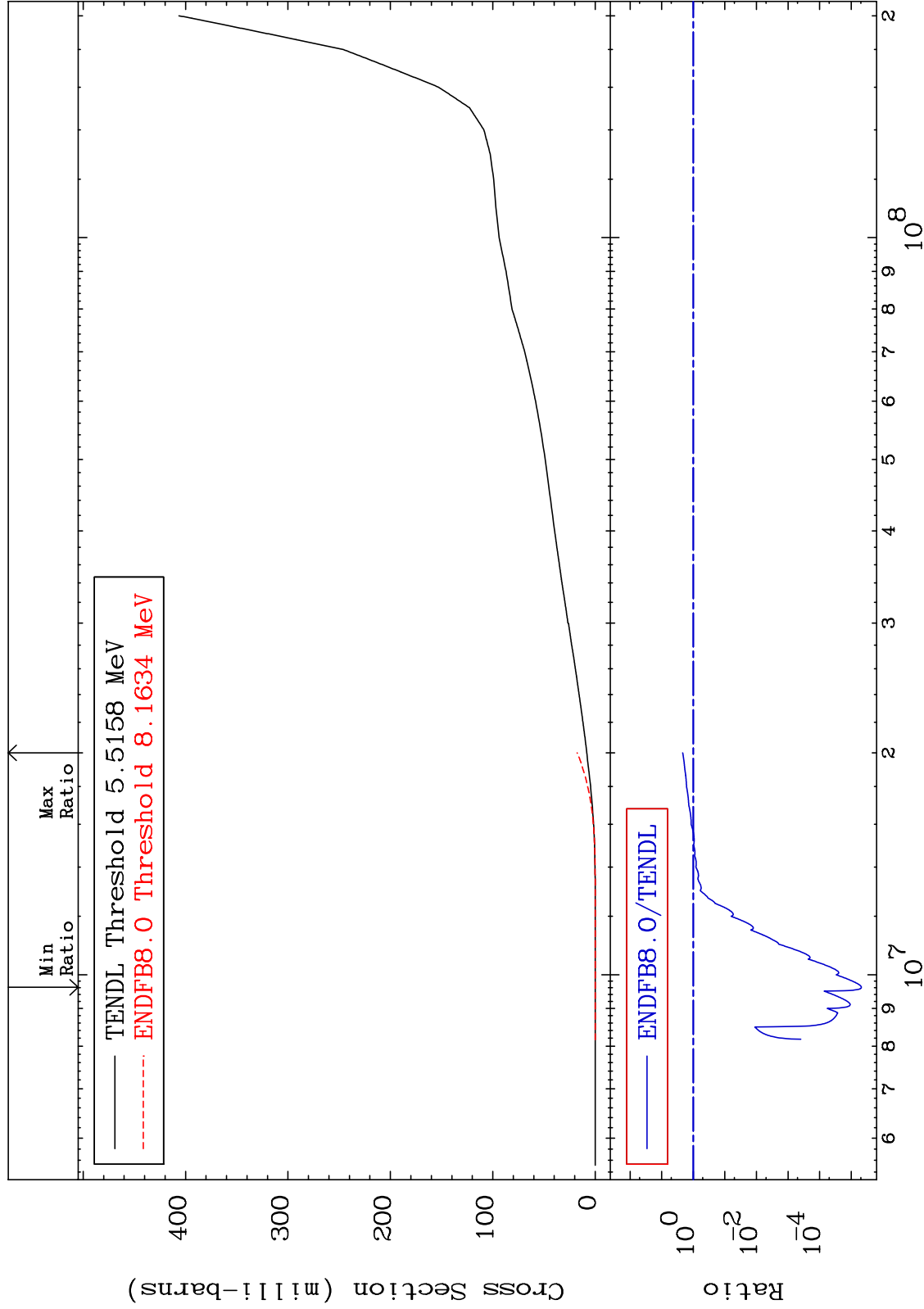
58-Ce-142
-100.0 To 10.84 %



MAT 5843

Deuterium Production
Cross Section

58-Ce-142
-100.0 To 116.4 %



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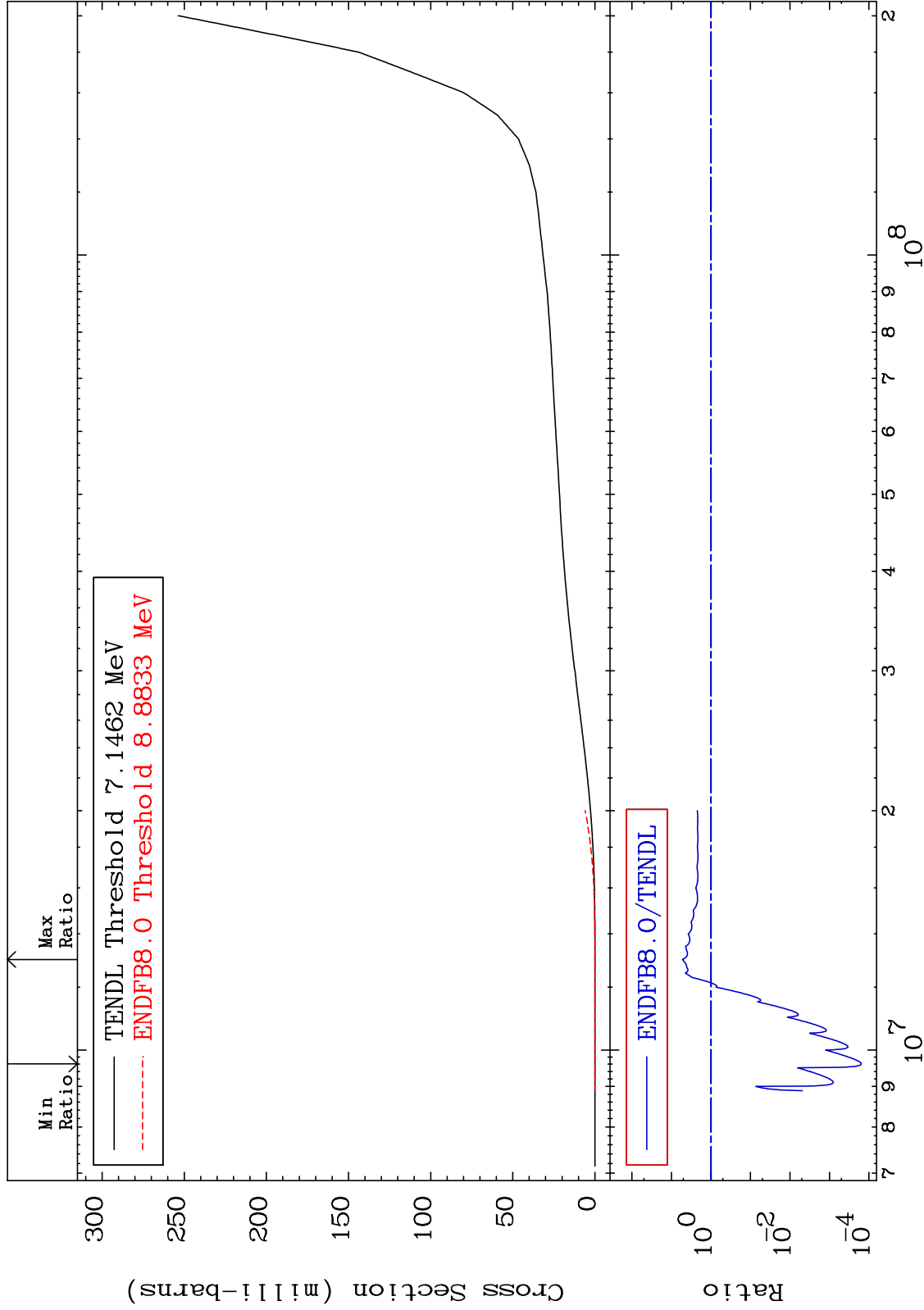
Incident Energy (eV)

58-Ce-142

MAT 5843

Tritium Production
Cross Section

58-Ce-142
-99.98 To 426.4 %



27

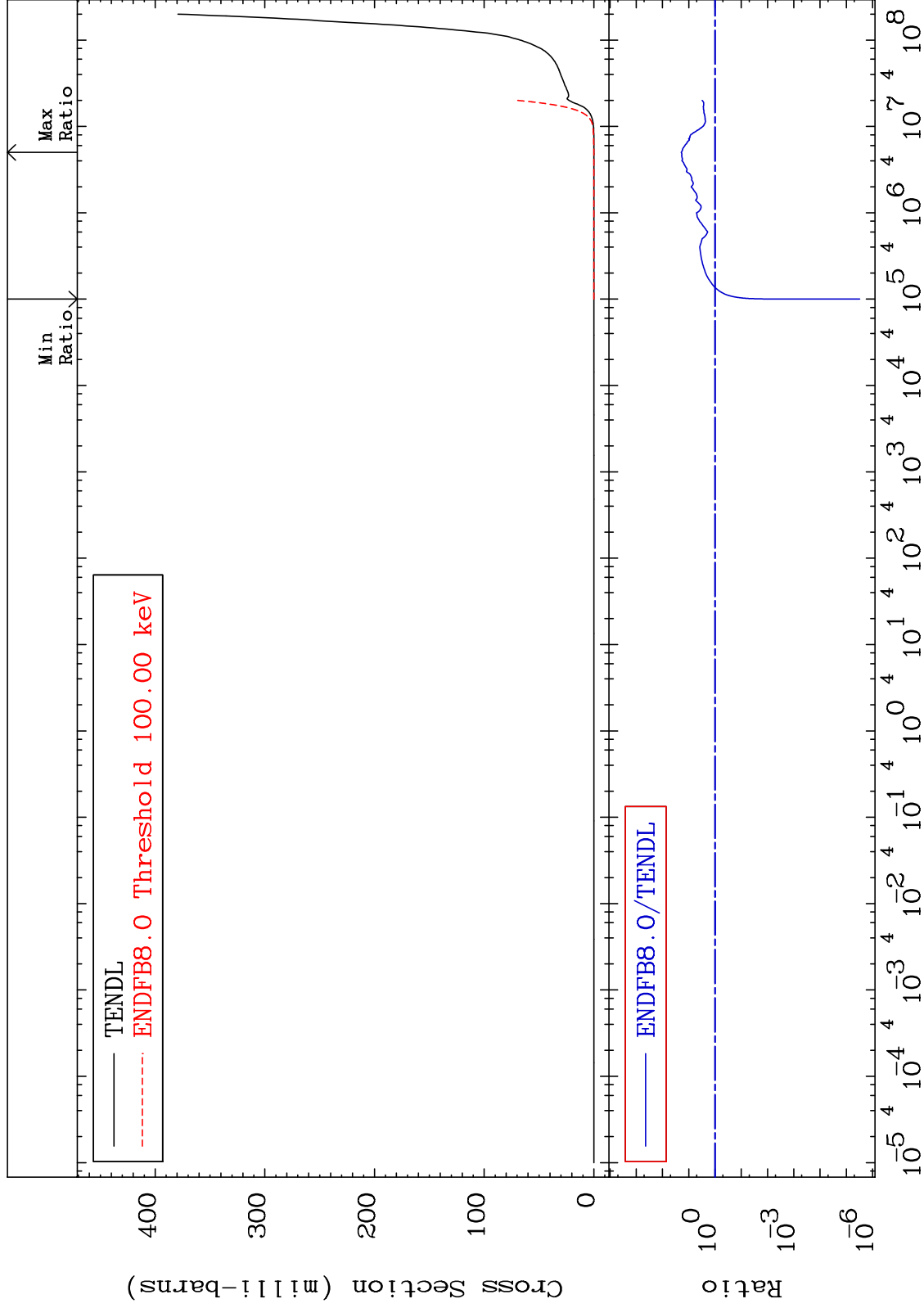
Incident Energy (eV)

58-Ce-142

MAT 5843

He-4 Production
Cross Section

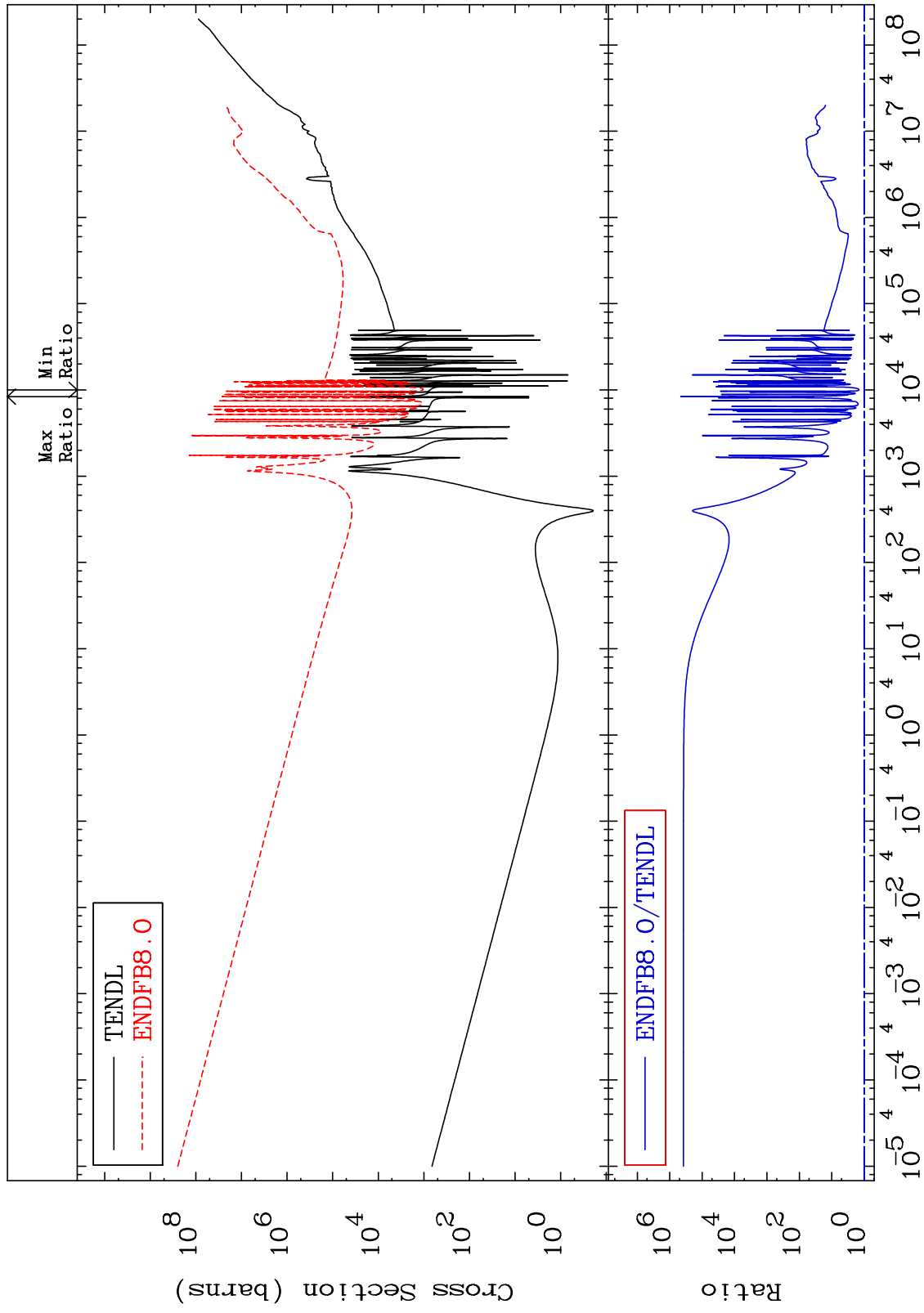
58-Ce-142
-100.0 To 1829. %



MAT 5843

Kerma total (eV-barns)
Cross Section

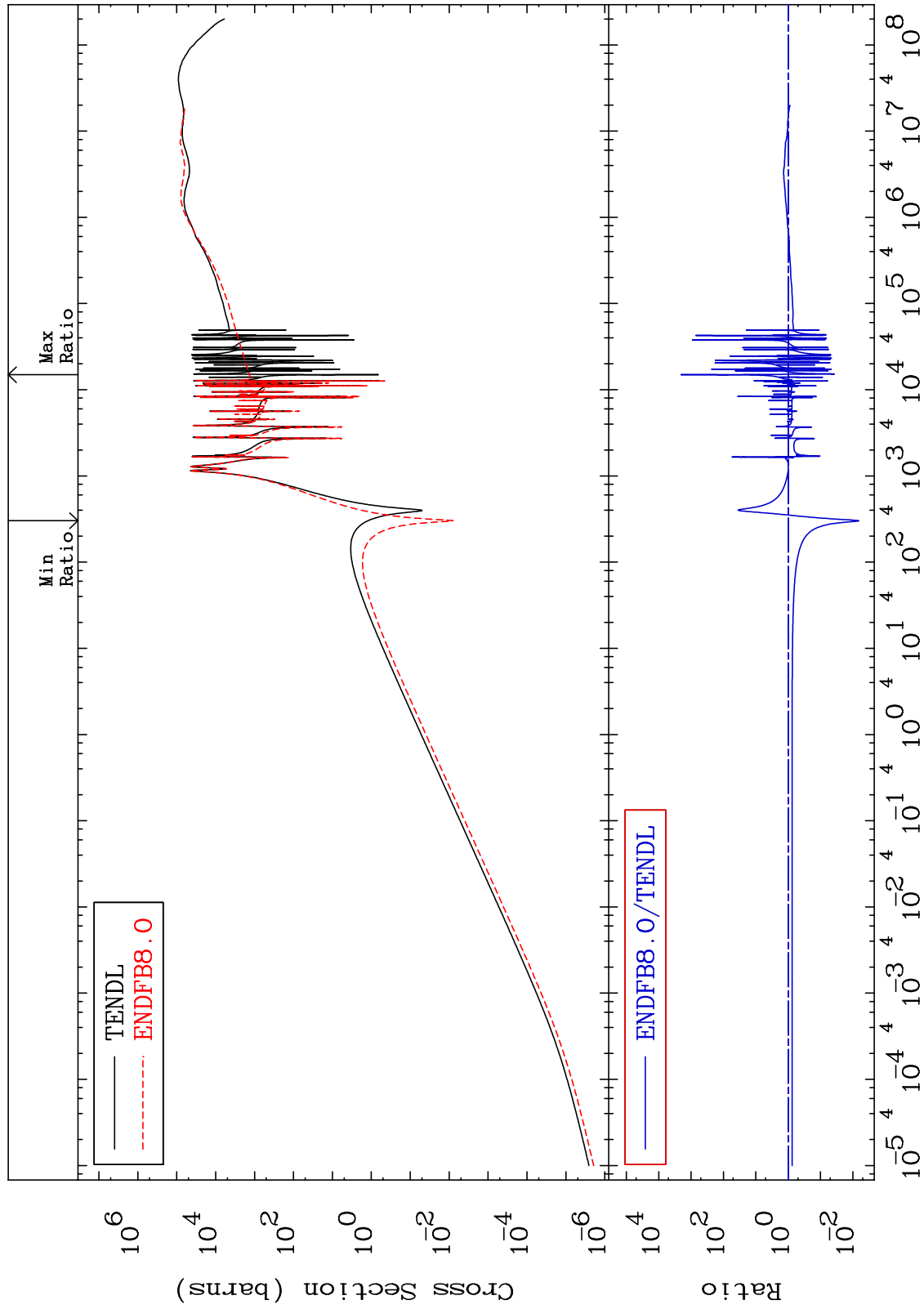
58-Ce-142
44.25 To 9999. %



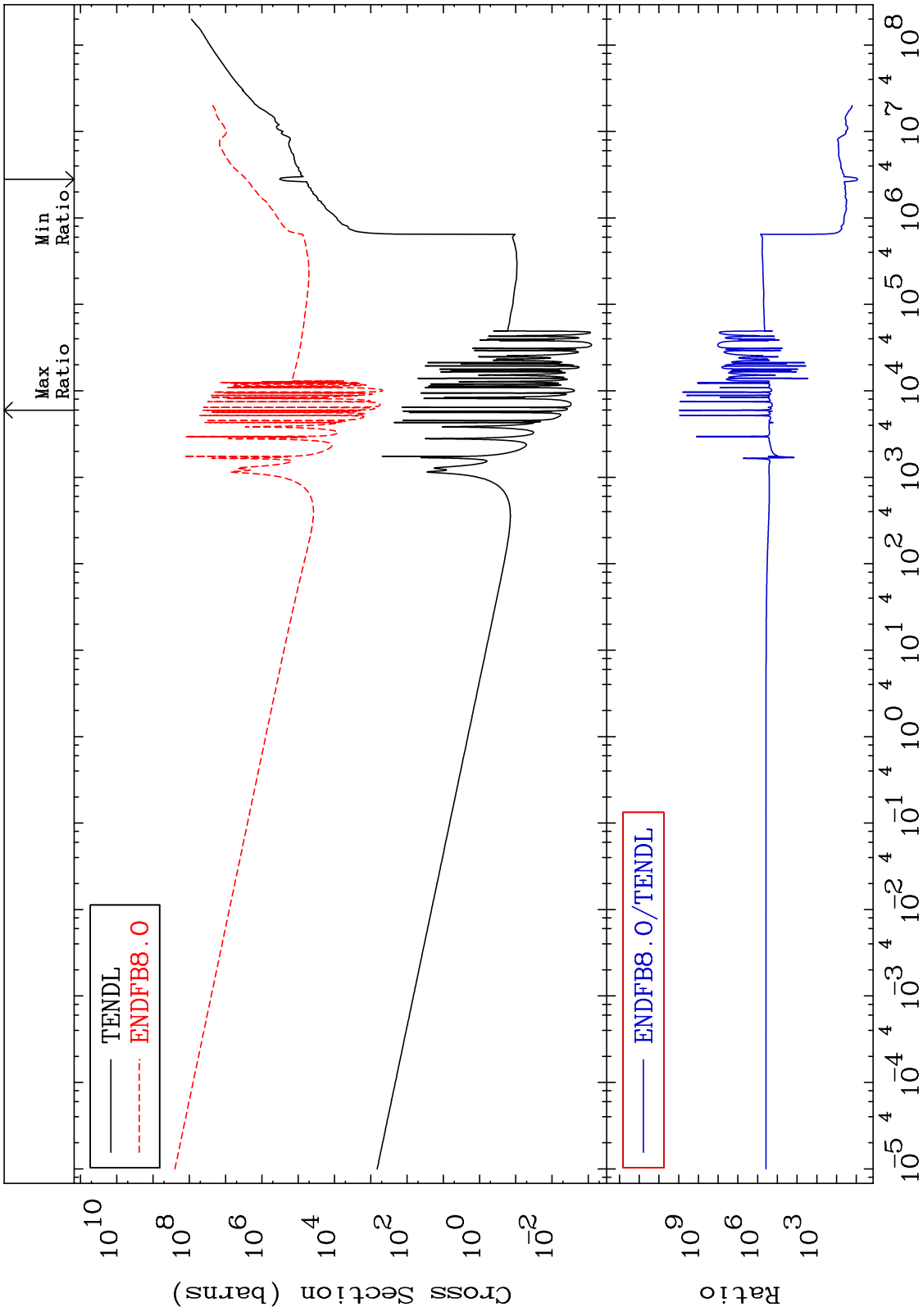
MAT 5843

Kerma elastic
Cross Section

58-Ce-142
-99.35 To 9999. %

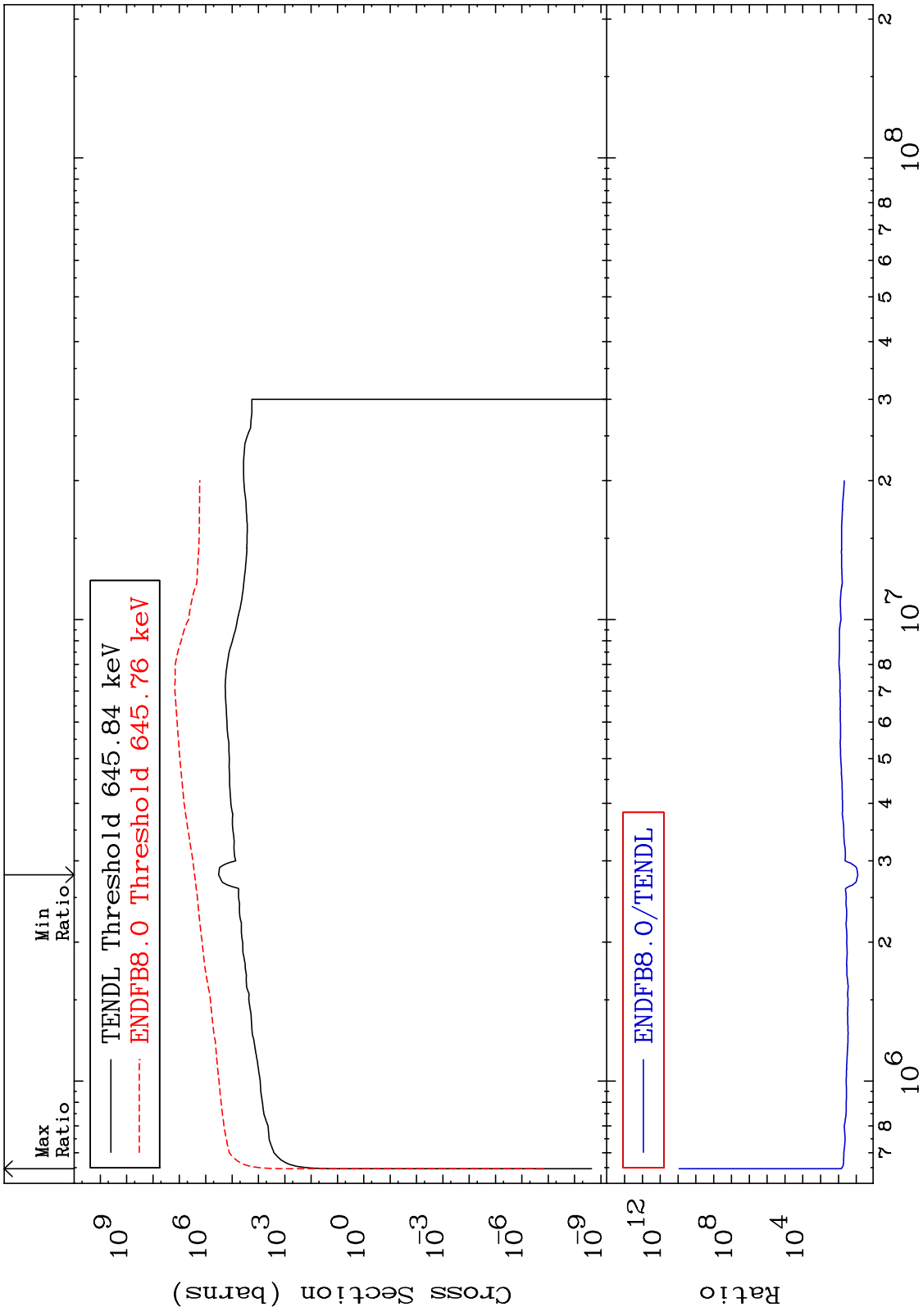


MAT 5843 Kerma non-elastic (all but mt2) 58-Ce-142
 Cross Section 736.5 To 9999. %



31 Incident Energy (eV) 58-Ce-142

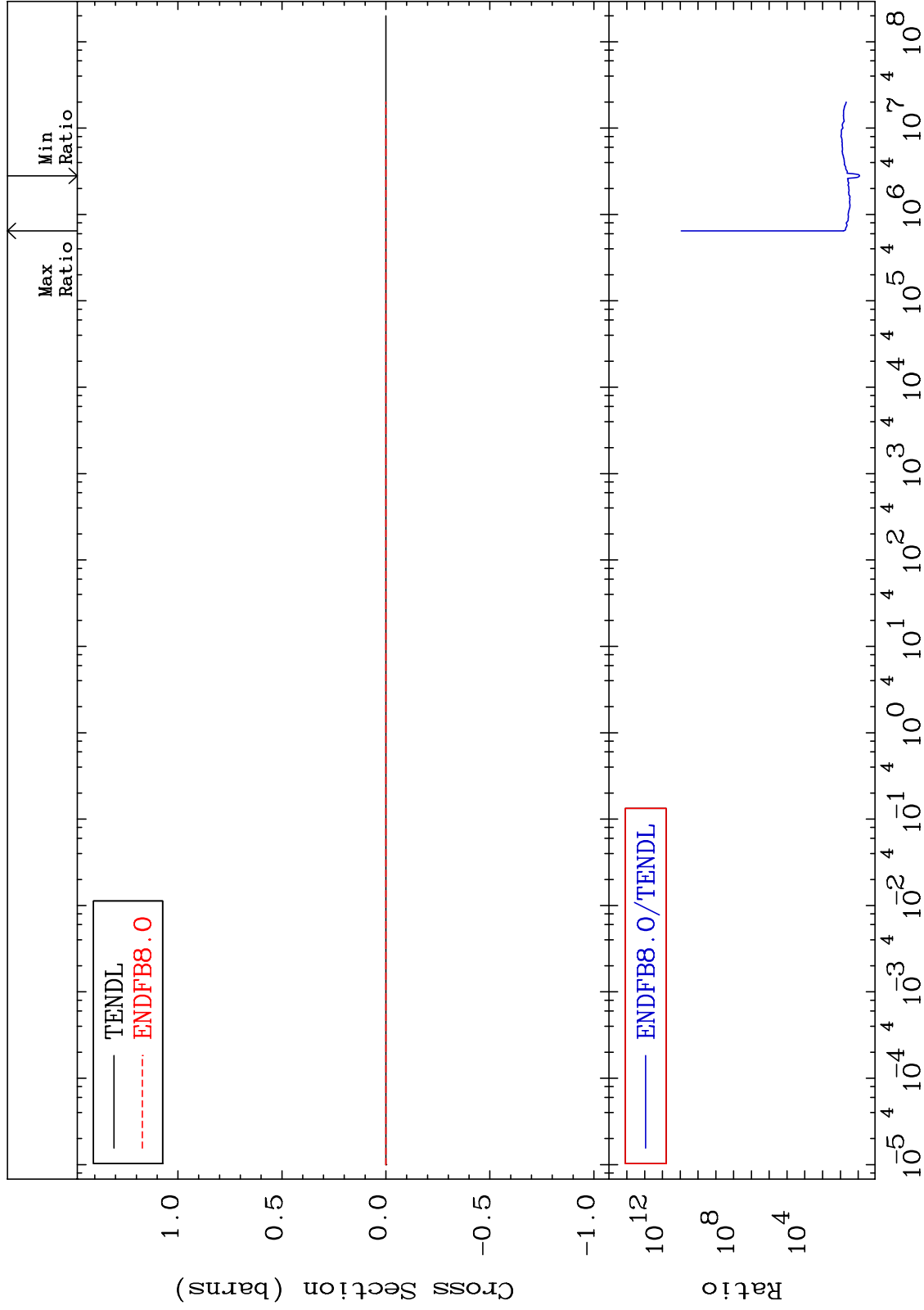
MAT 5843 Kerma inelastic (mt51-91) 58-Ce-142
 Cross Section 718.5 To 9999. %



MAT 5843

Kerma fission (mt18 or mt19-20-21-38)
Cross Section

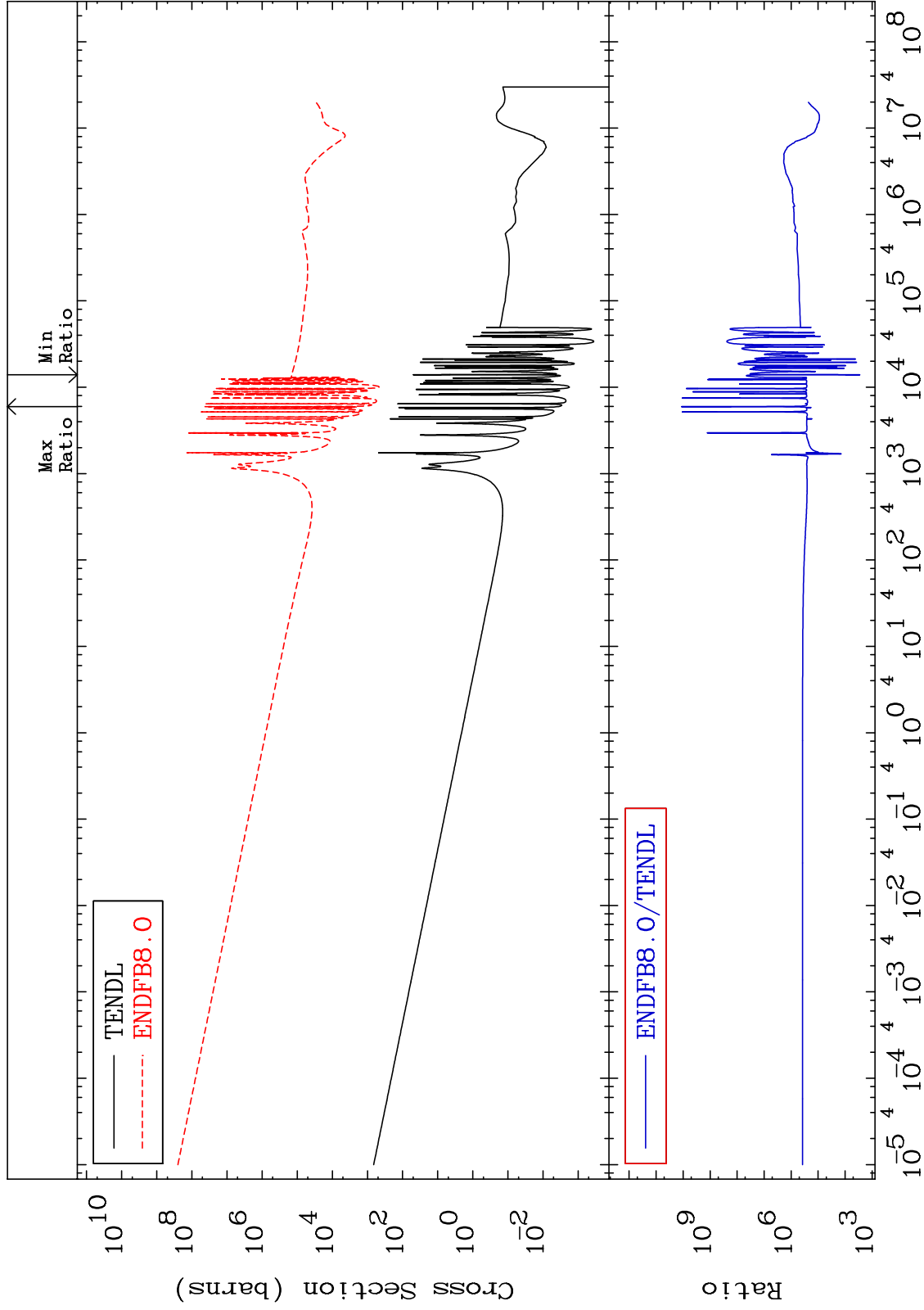
58-Ce-142
718.5 To 9999. %



MAT 5843

Kerma capture (mt102)
Cross Section

58-Ce-142
9999. To 9999. %

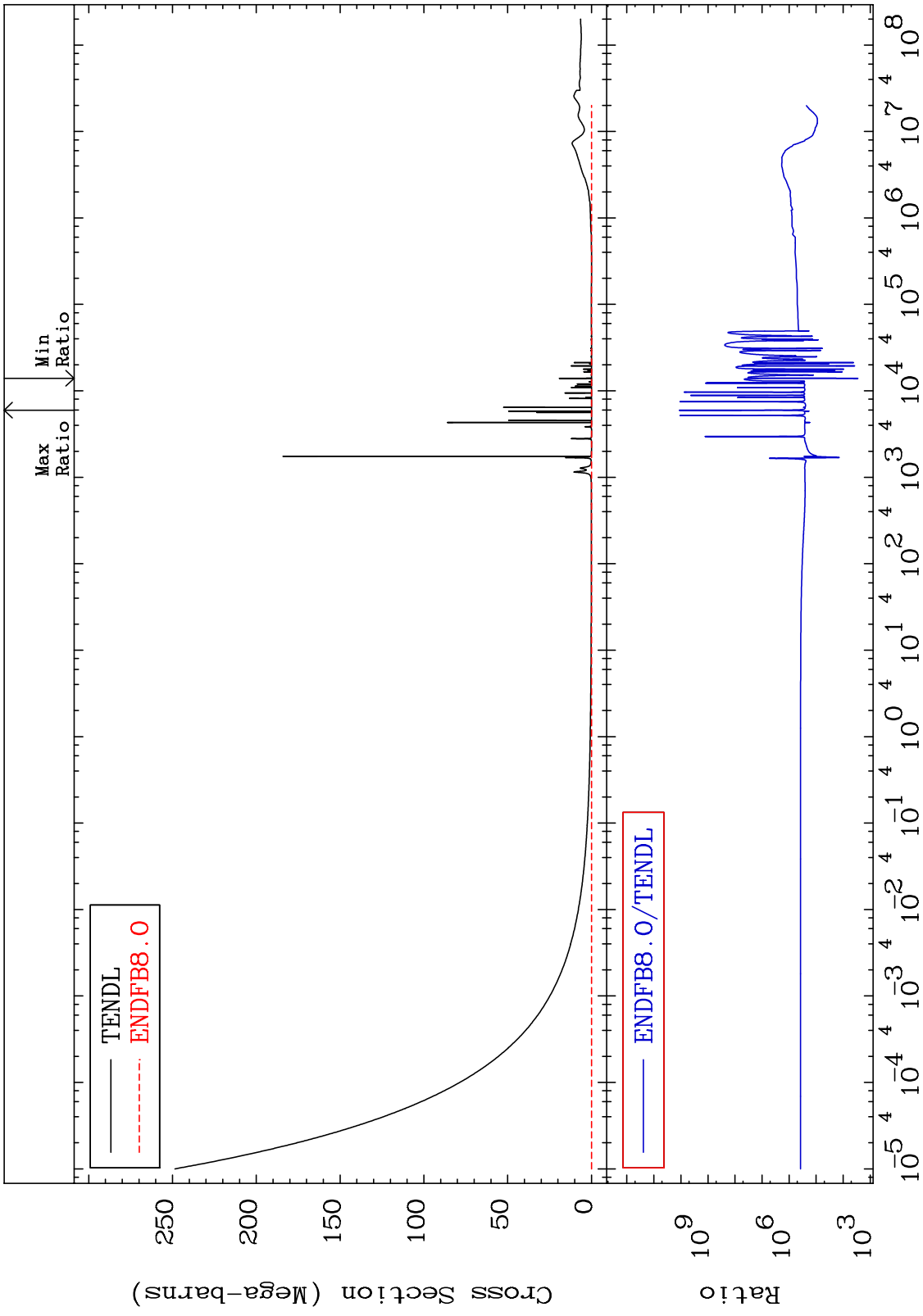


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Incident Energy (eV)

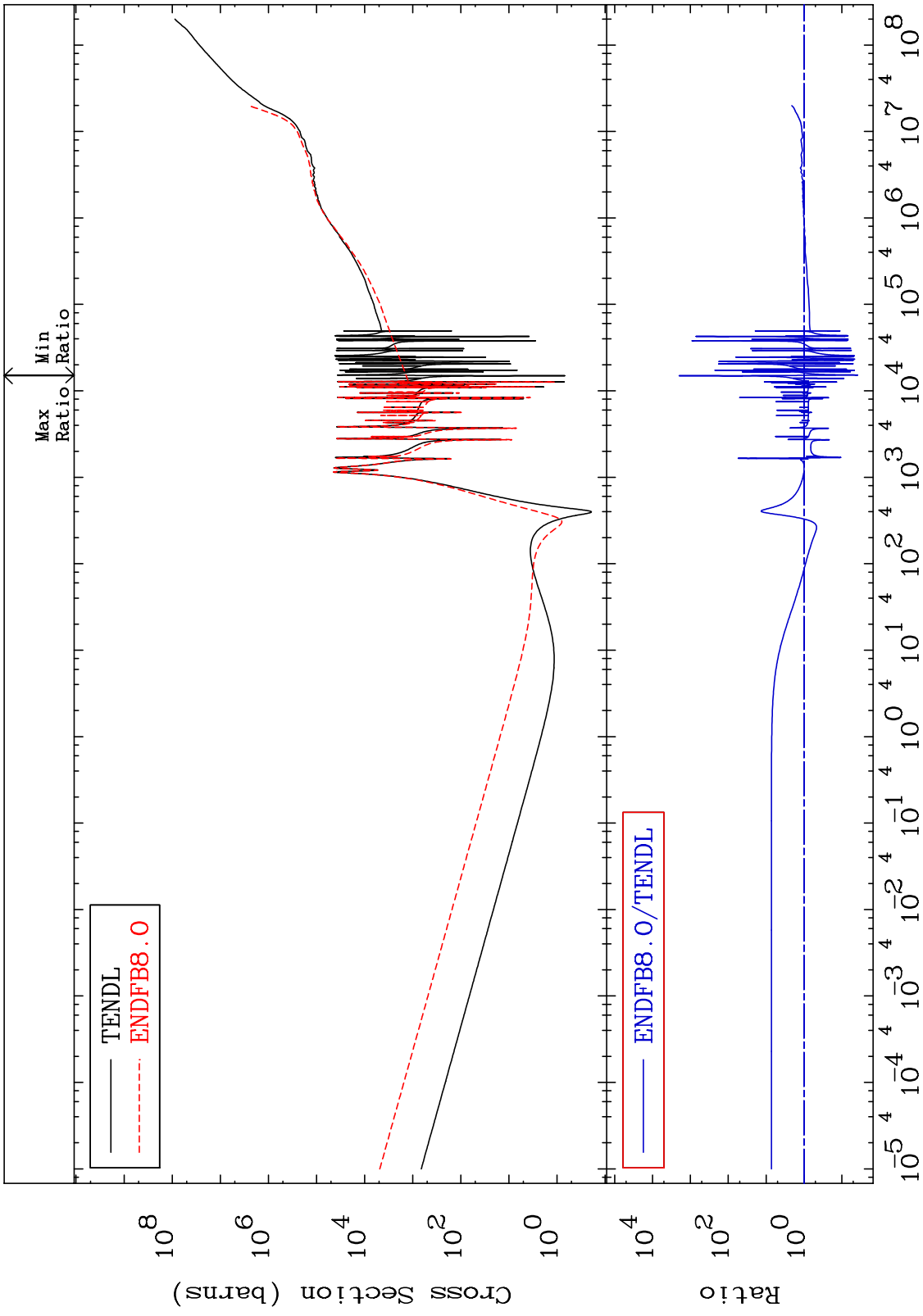
58-Ce-142

MAT 5843 58-Ce-142
 Total photon (eV-barns) 9999. To 9999. %
 Cross Section



35 58-Ce-142

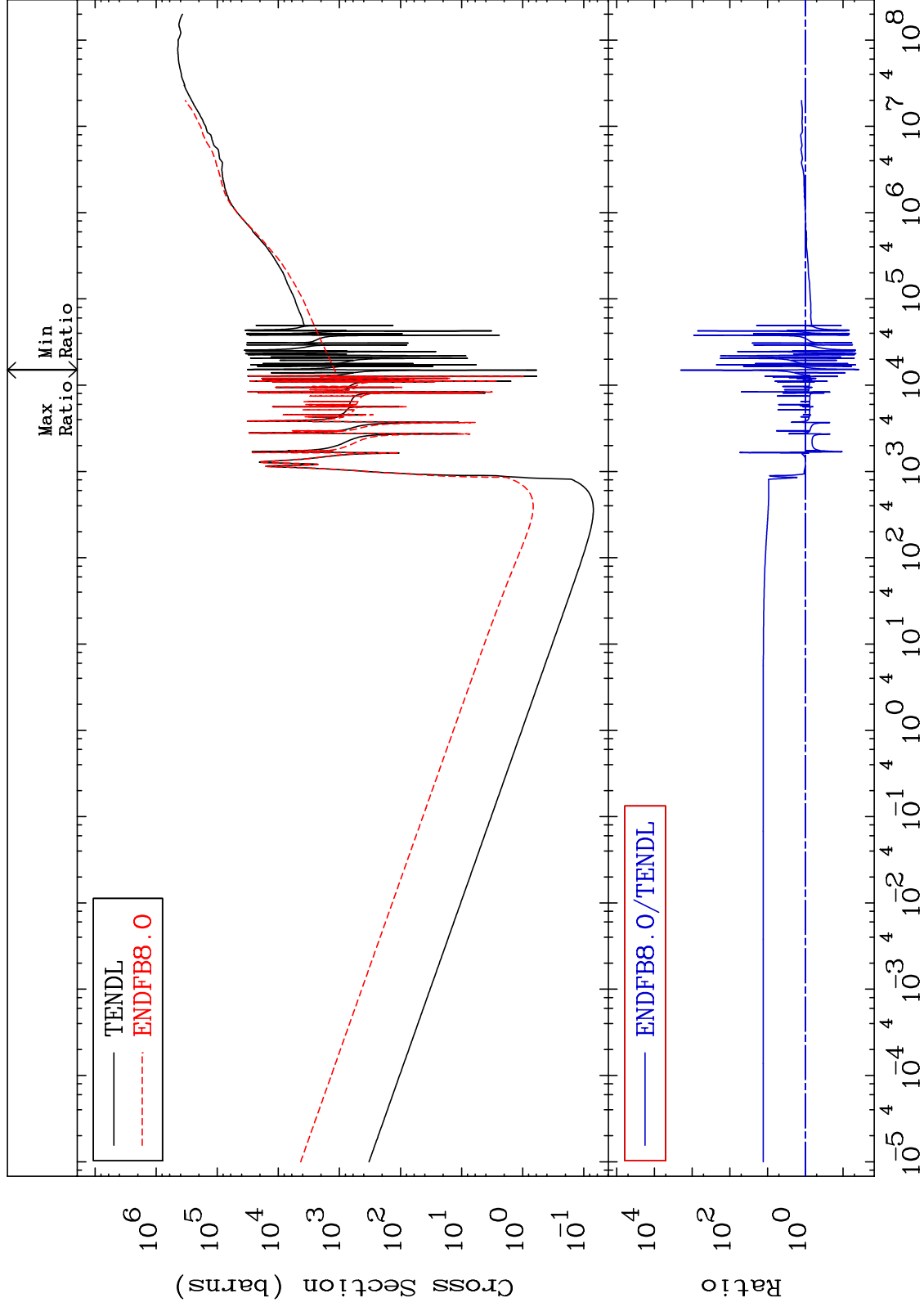
MAT 5843 Total kinematic kerma (high limit) 58-Ce-142
 Cross Section -96.21 To 9999. %



MAT 5843

Dpa total (eV-barns)
Cross Section

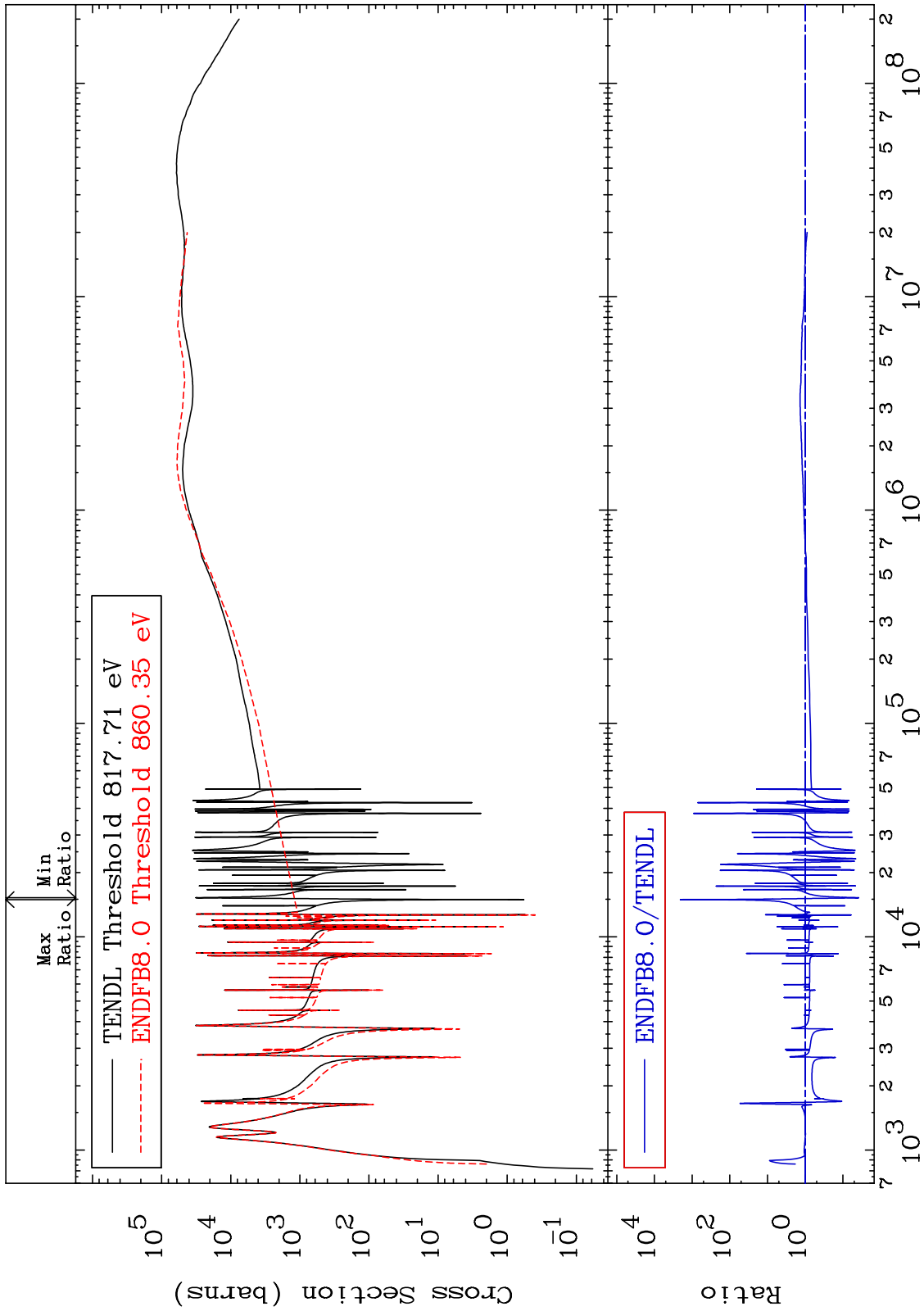
58-Ce-142
-96.21 To 9999. %



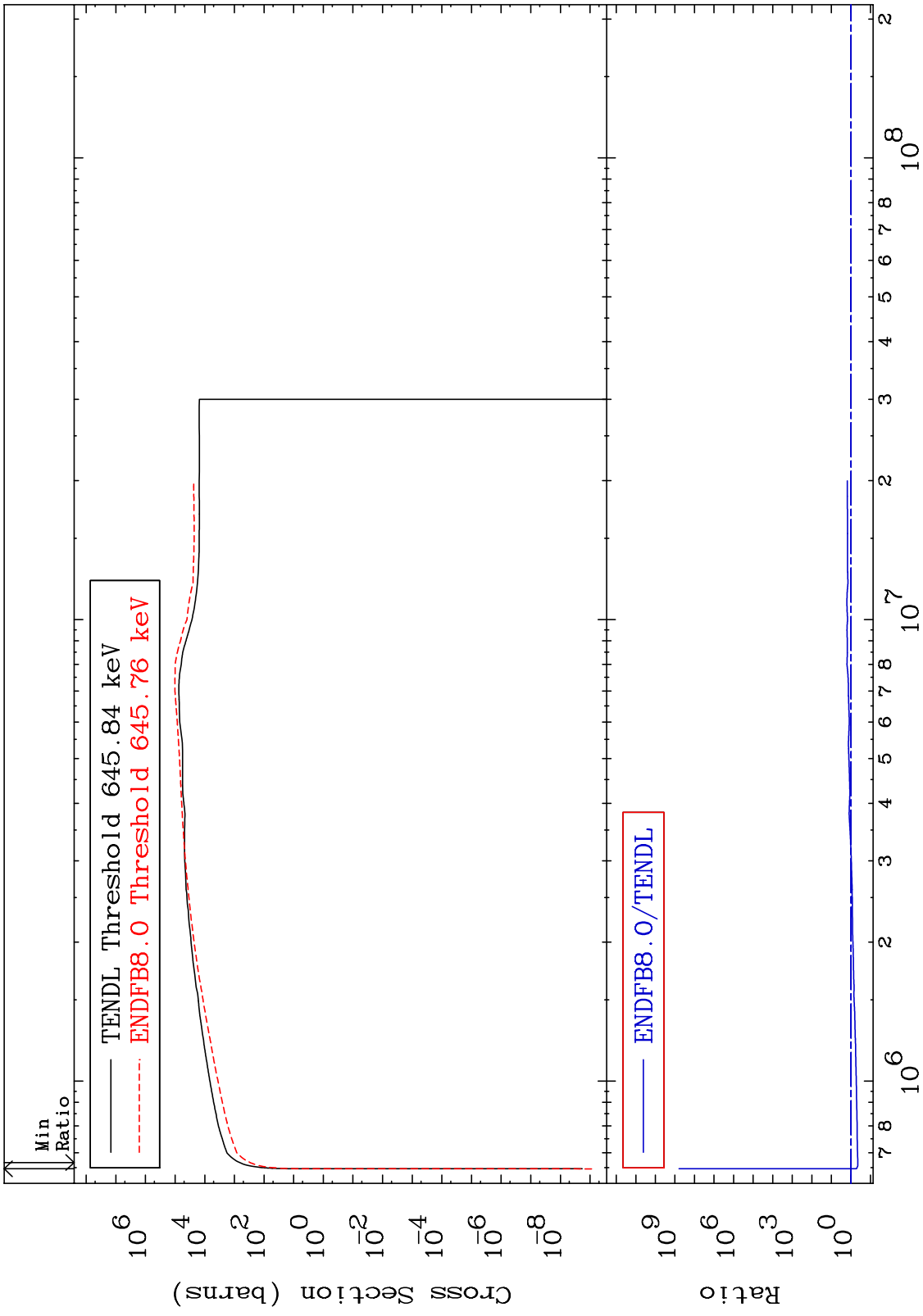
MAT 5843

Dpa elastic (mt2)
Cross Section

58-Ce-142
-96.23 To 9999. %



MAT 5843 Dpa inelastic (mt51-91) 58-Ce-142
 Cross Section -55.64 To 9999. %



MAT 5843

Dpa disappearance (mt102 -120)
Cross Section

58-Ce-142
-80.36 To 9999. %

