

Program Complot
(Version 2018-1)

by

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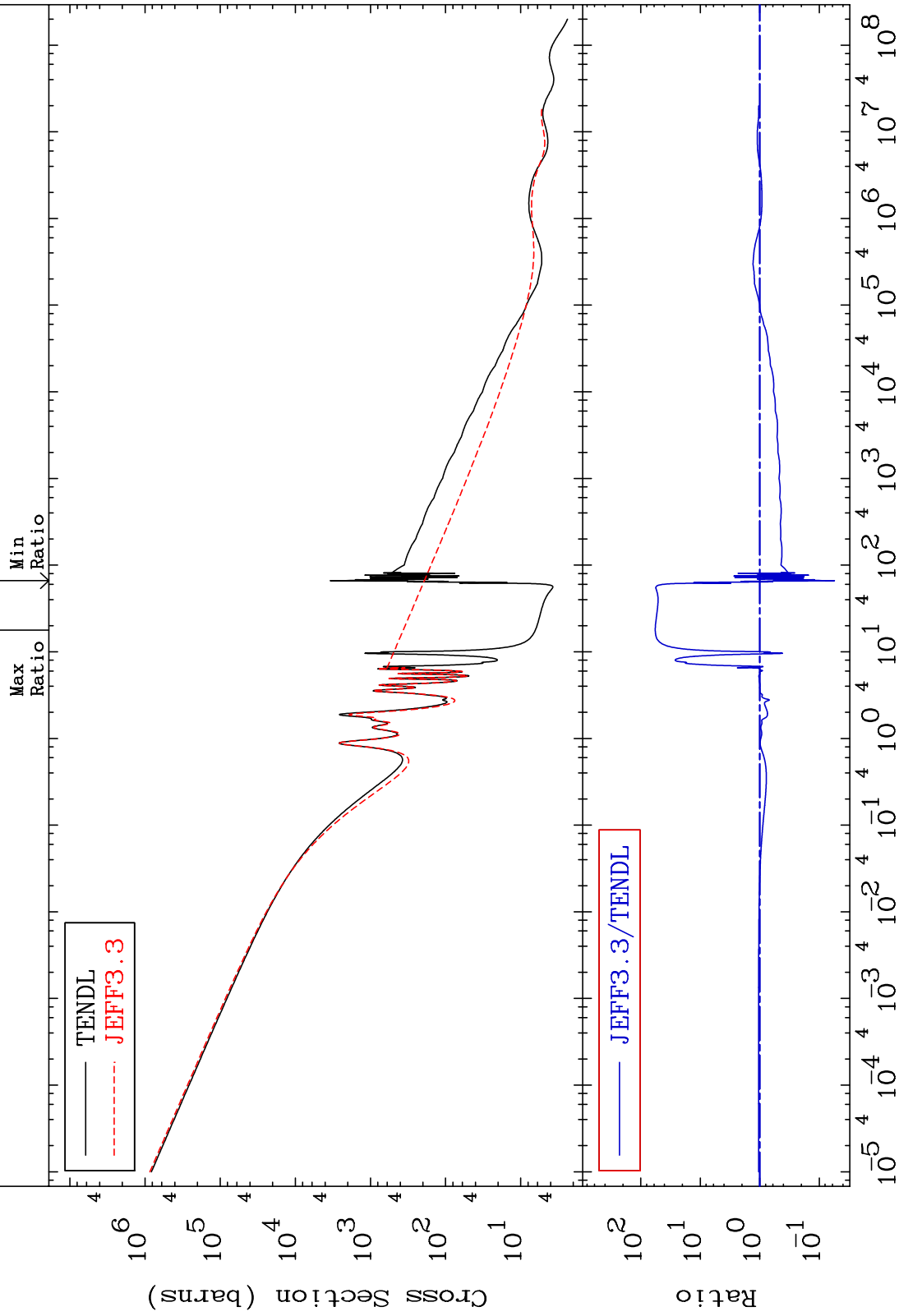
Press Mouse Button to Start

MAT 6328

63-Eu-152

-94.46 To 5619. %

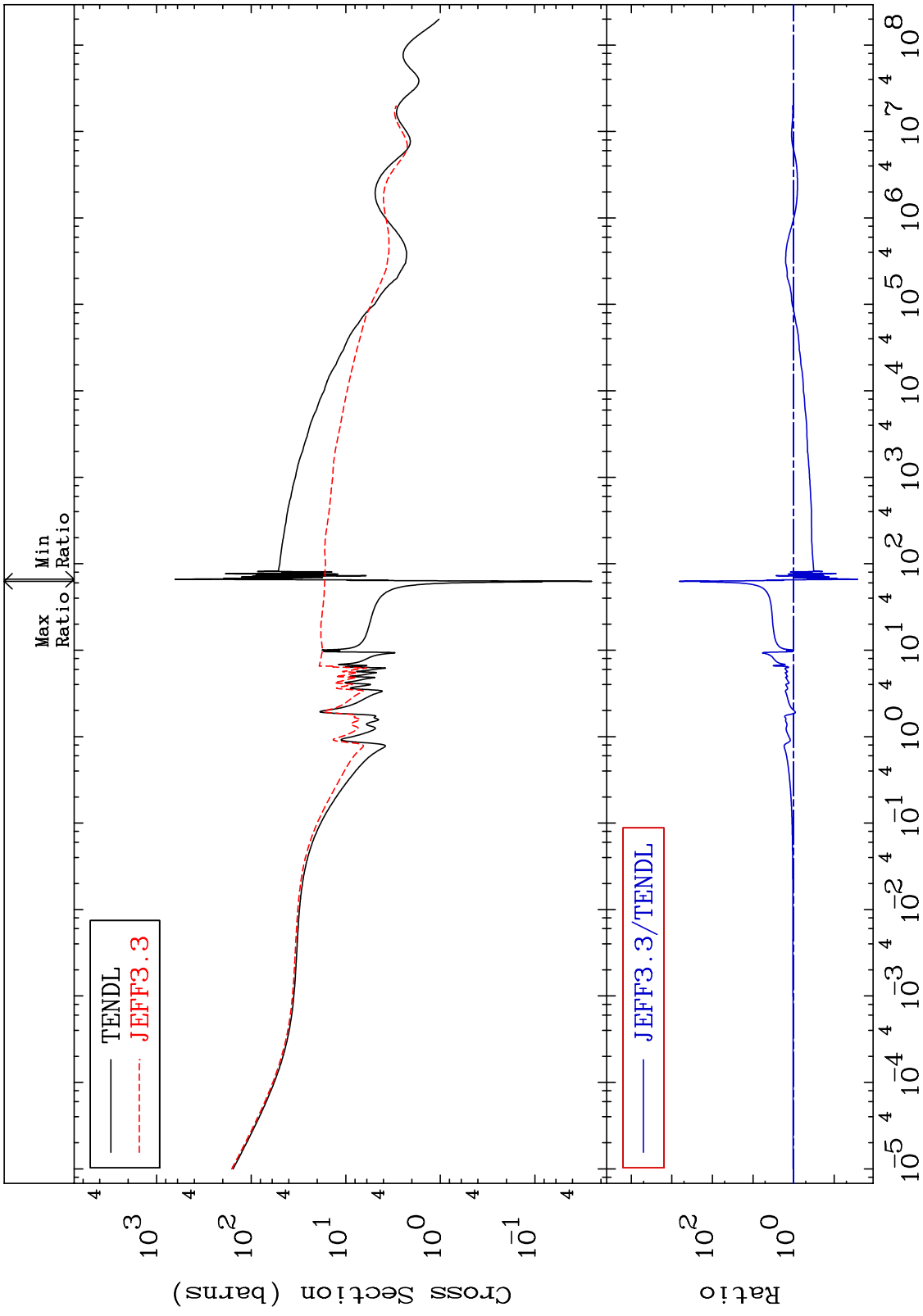
Total
Cross Section



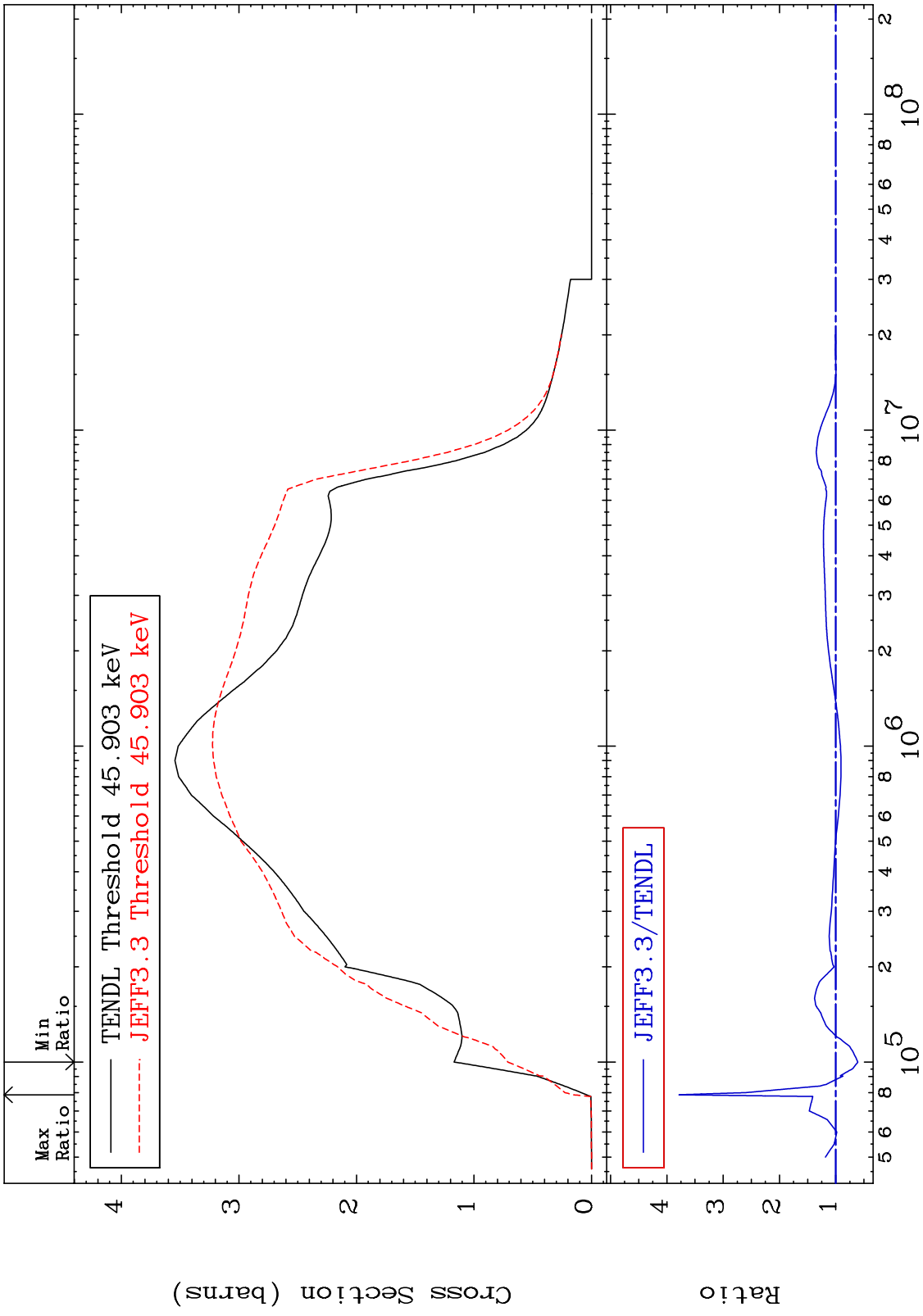
Incident Energy (eV)

63-Eu-152

MAT 6328 Elastic Cross Section 63-Eu-152 -97.39 To 9999. %

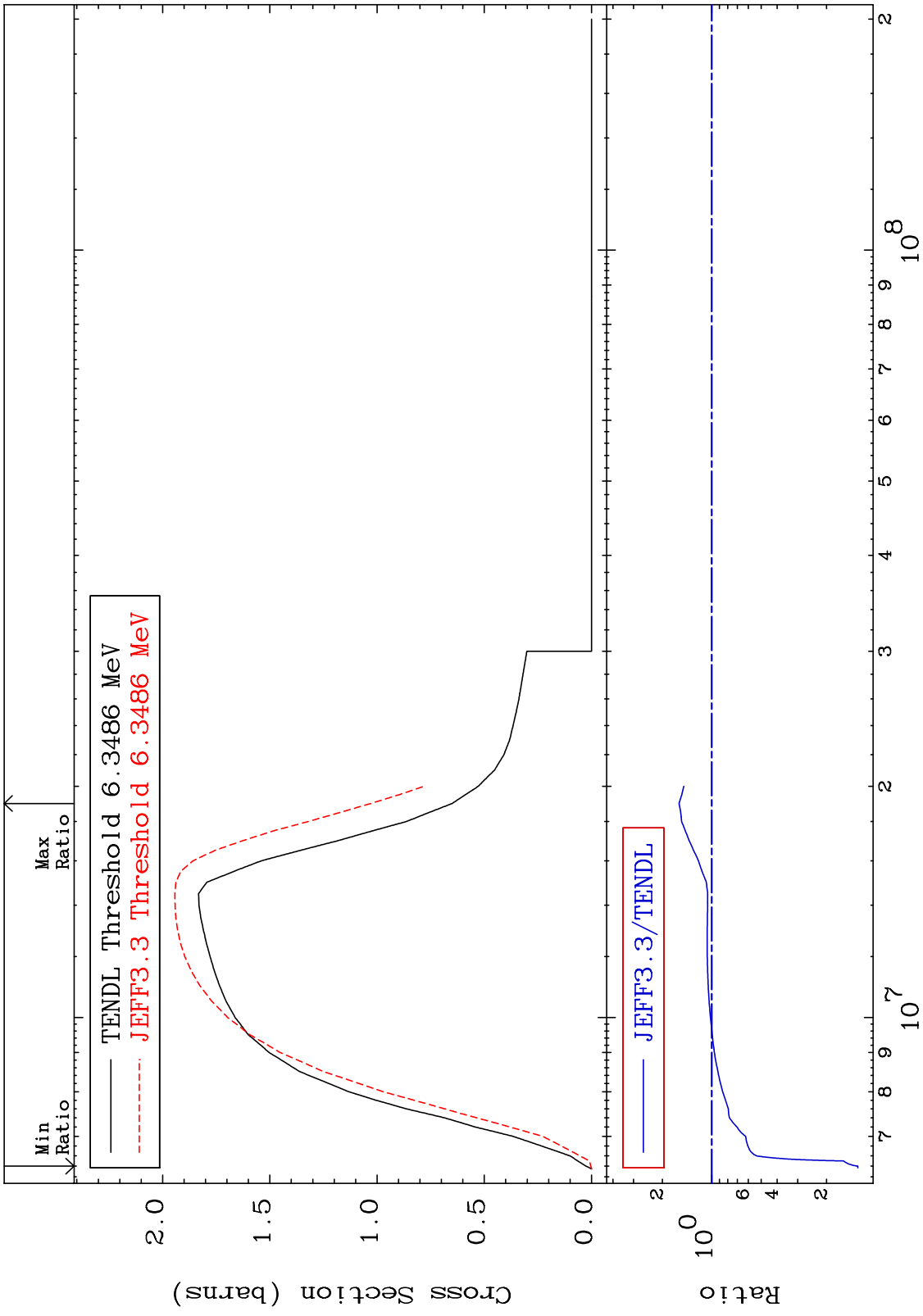


MAT 6328 Inelastic Cross Section 63-Eu-152 -39.15 To 278.4 %

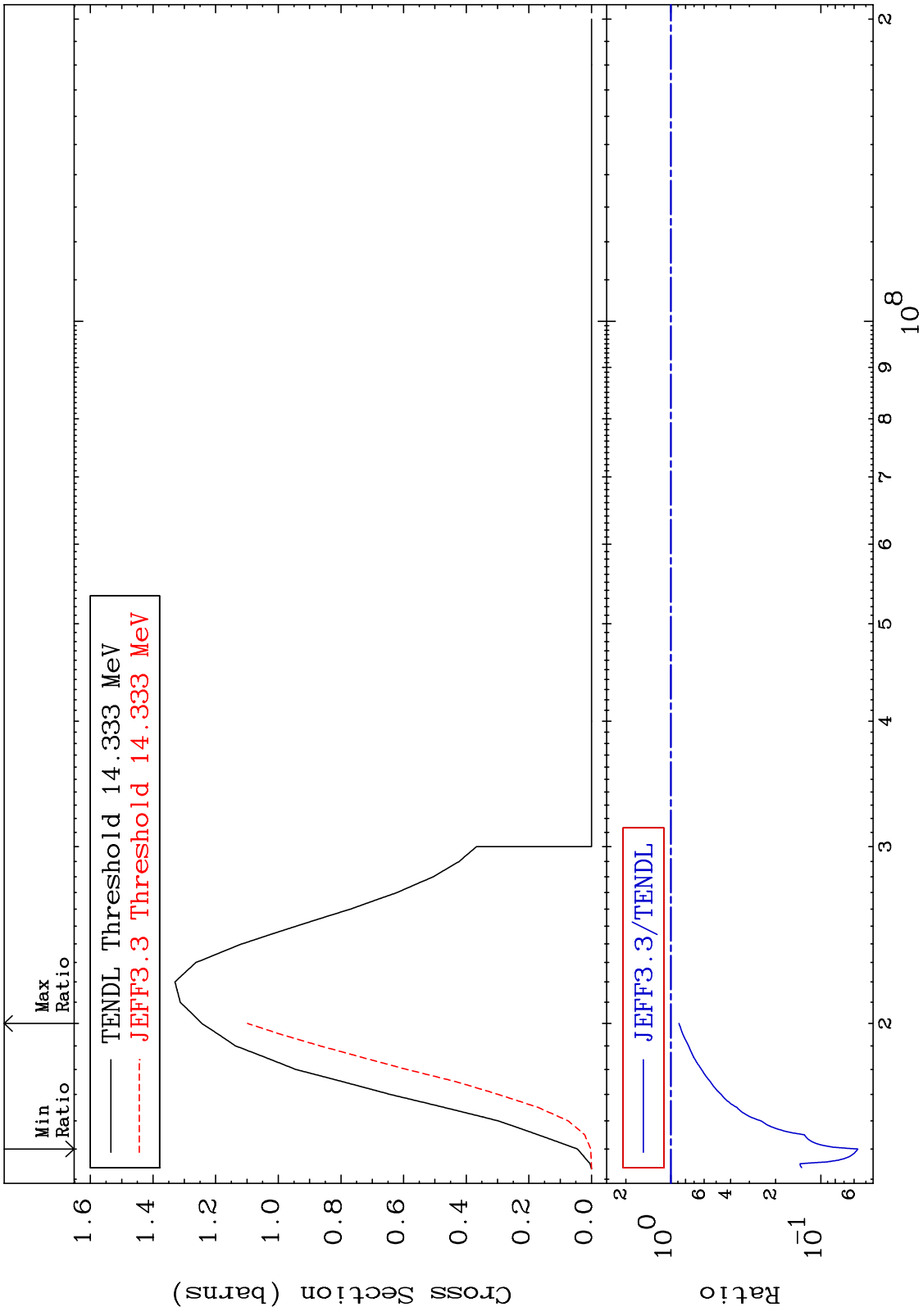


3 63-Eu-152

MAT 6328 (n,2n) 63-Eu-152
Cross Section -87.11 To 58.43 %



MAT 6328 $(n, 3n)$ Cross Section $^{63}\text{Eu}-152$
 $-94.34 \text{ To } -11.73\%$



MAT 6328

$(n, n') \alpha$

63-Eu-152

-100.0 To 9999. %

Cross Section

Min Ratio

Max Ratio

TENDL Threshold 81.611 eV
JEFF3.3 Threshold 500.00 keV

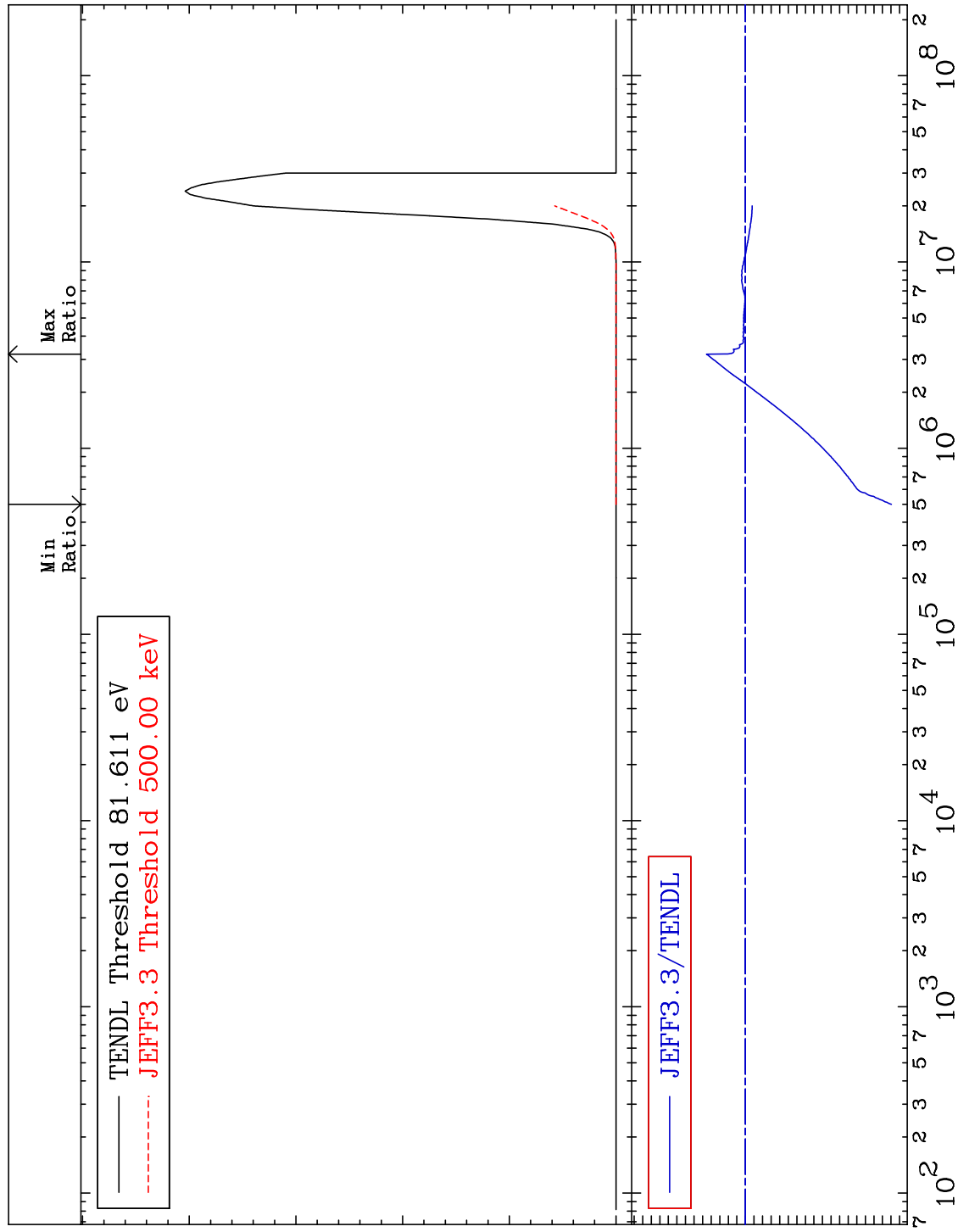
Cross Section (milli-barns)

JEFF3.3/TENDL

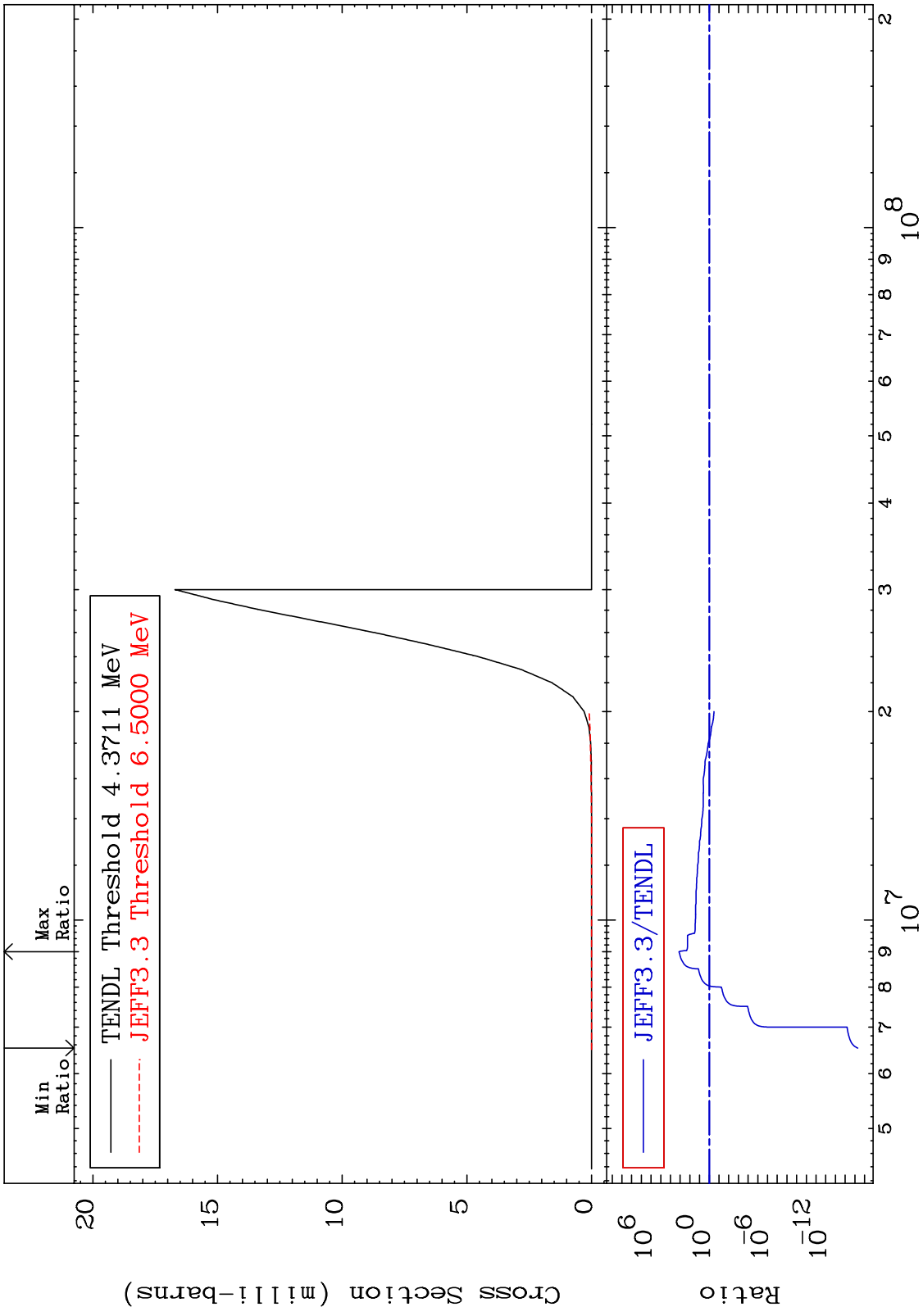
Ratio

Incident Energy (eV)

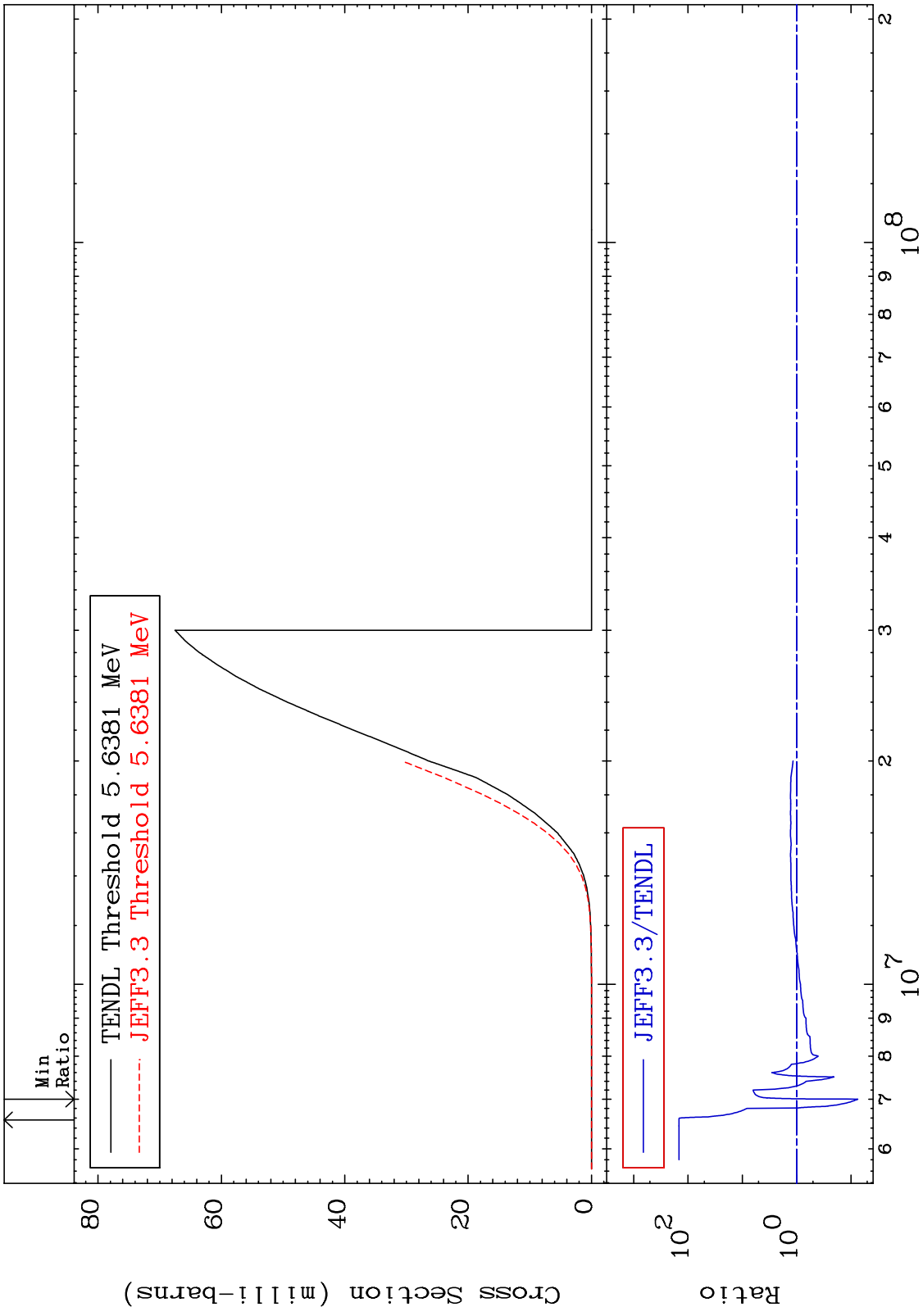
63-Eu-152



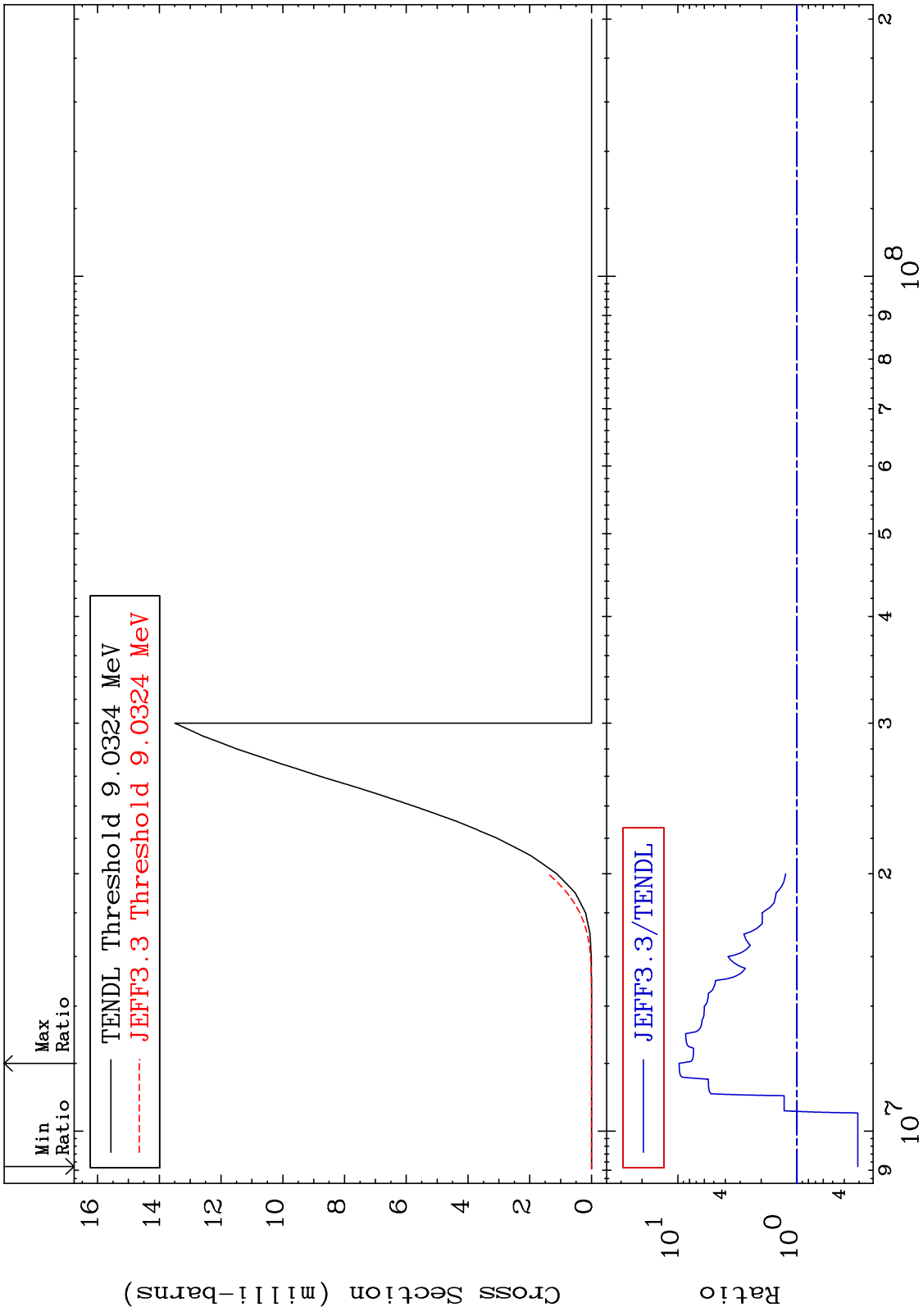
MAT 6328 $(n, 2n) \alpha$ $^{63}\text{Eu-152}$
 Cross Section -100.0 To 9999. %



MAT 6328 (n,n') p 63-Eu-152
Cross Section -92.54 To 9999. %

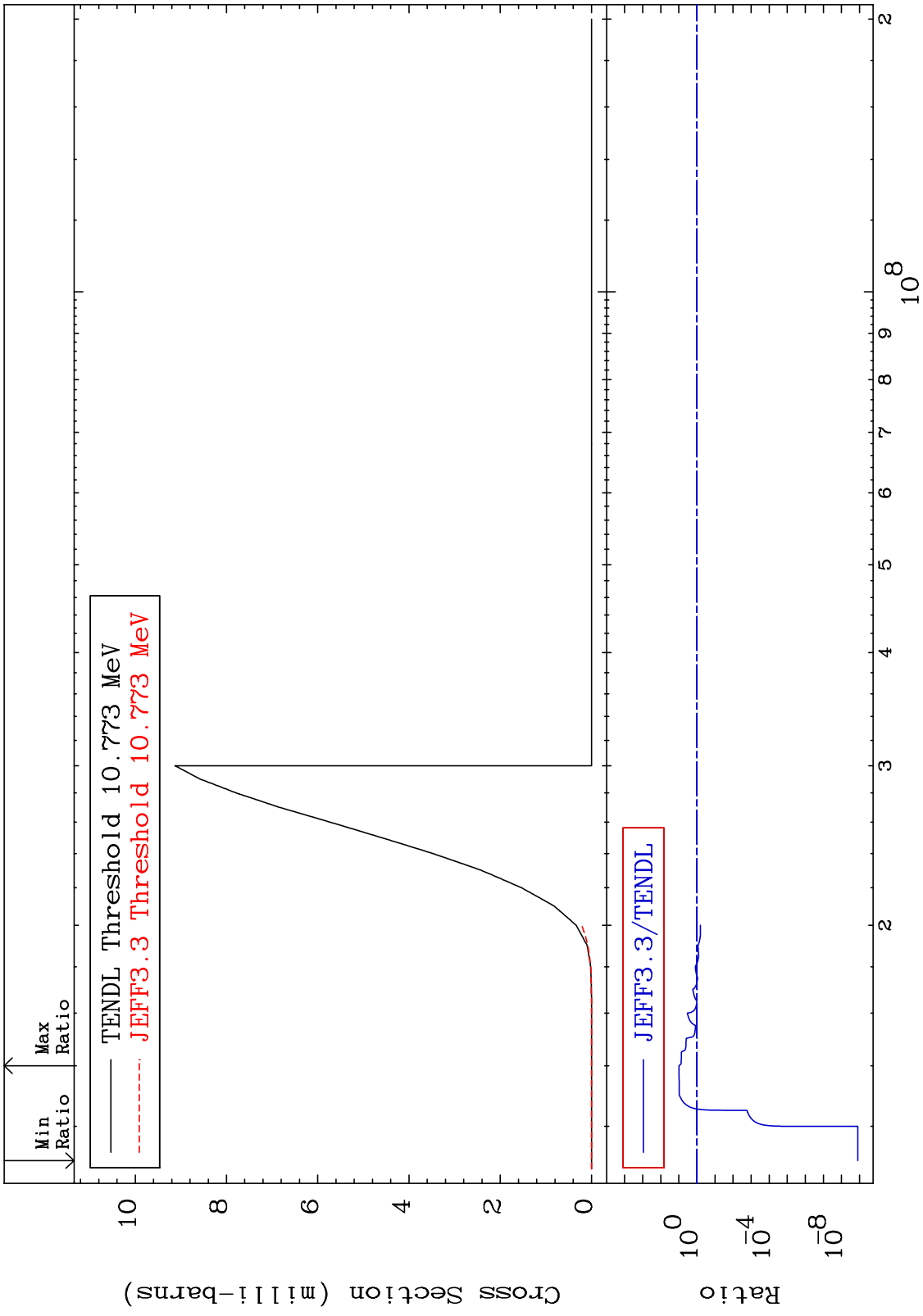


MAT 6328 (n, n') d 63-Eu-152
 Cross Section -69.22 To 876.9 %

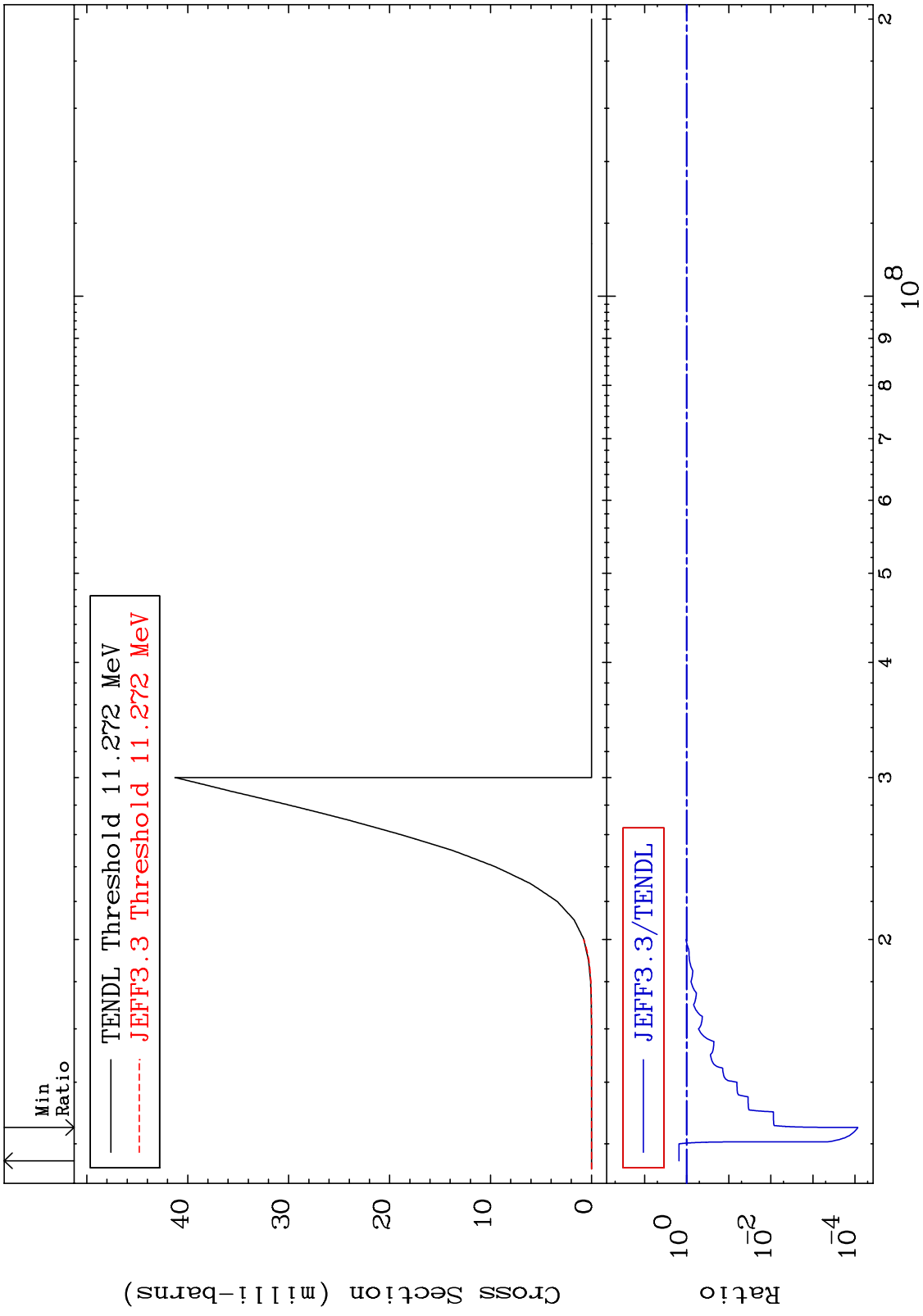


63-Eu-152

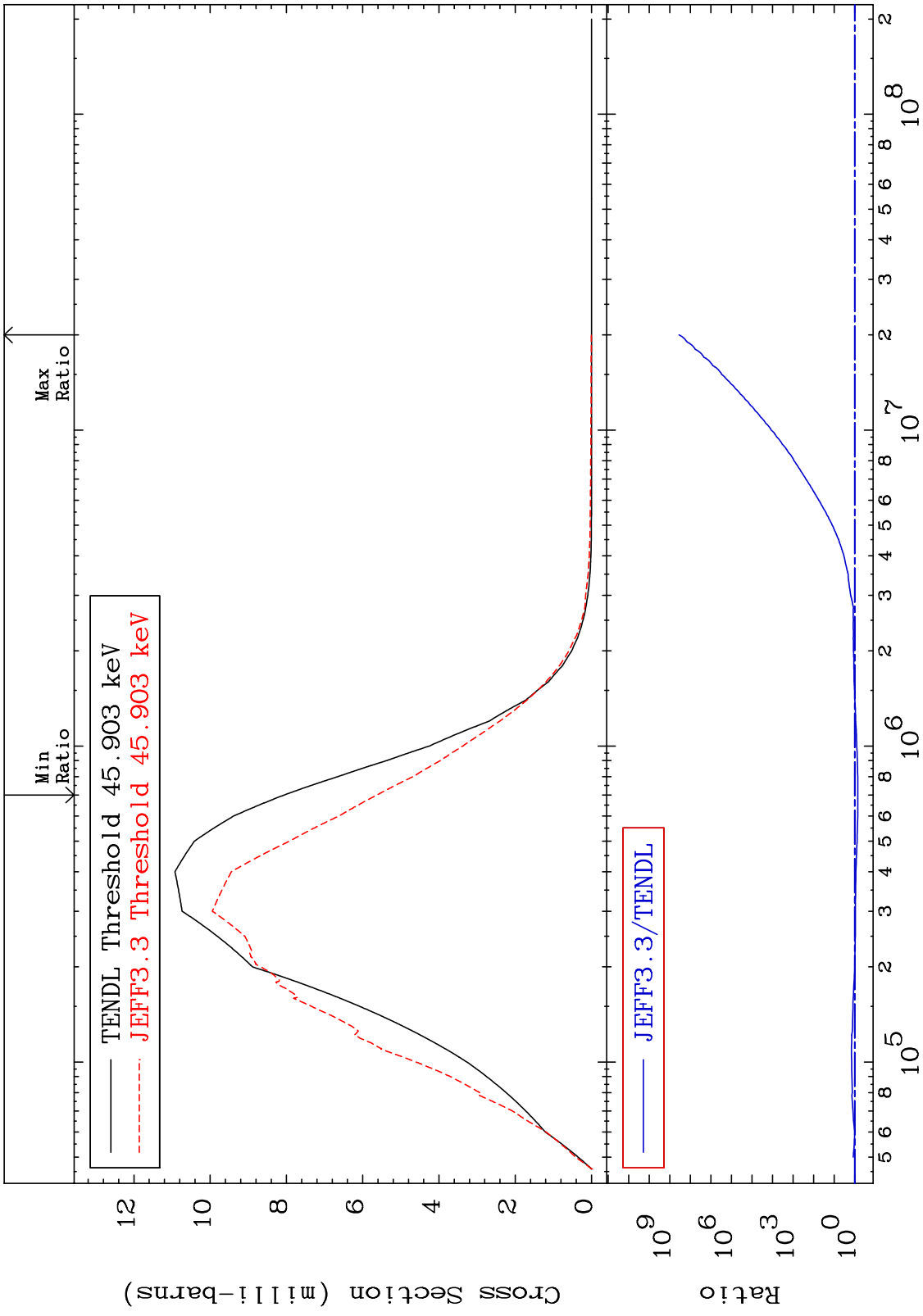
MAT 6328 (n,n') t 63-Eu-152
 Cross Section -100.0 To 869.7 %



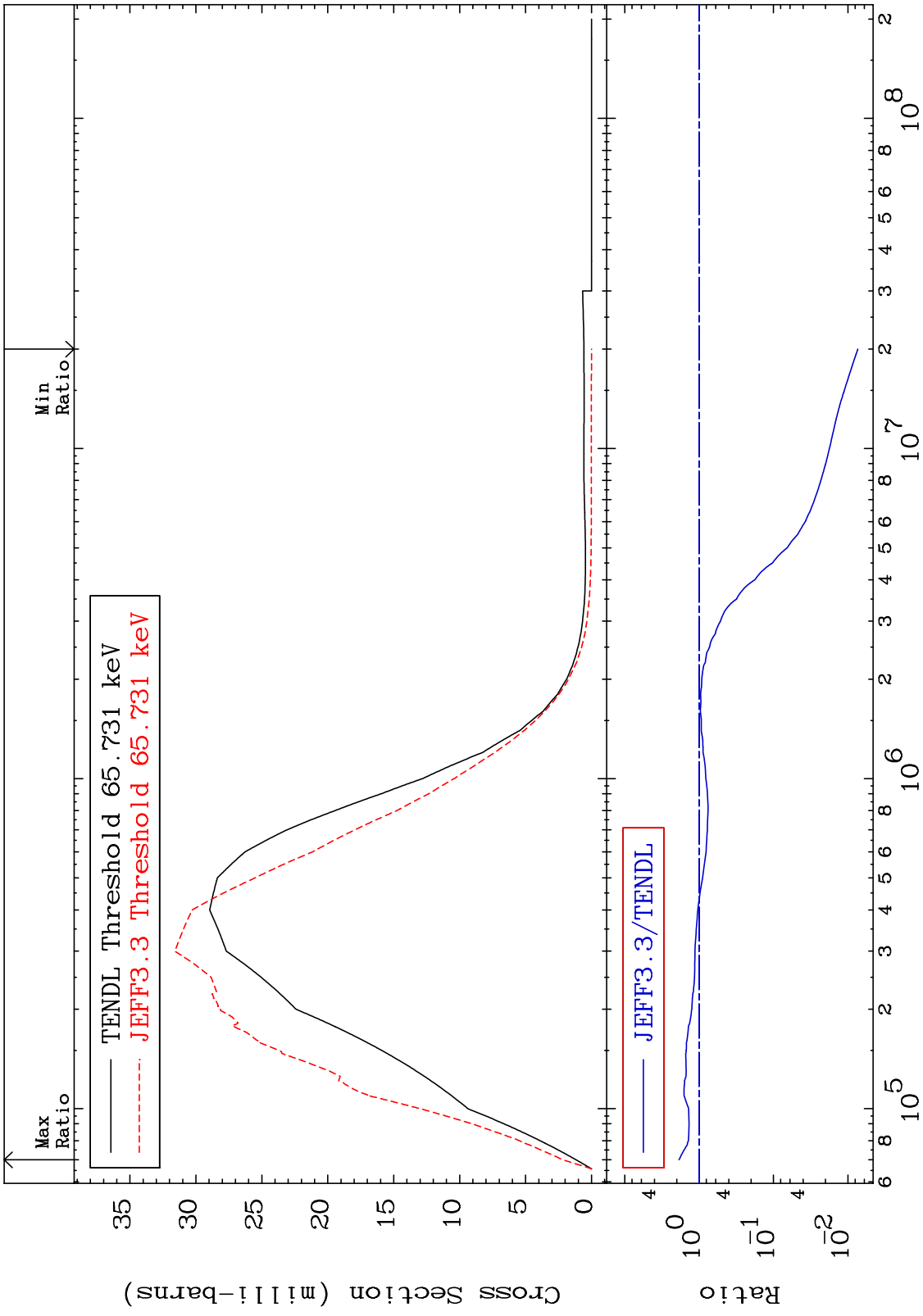
MAT 6328 (n,2n) p 63-Eu-152
 Cross Section -99.99 To 51.93 %



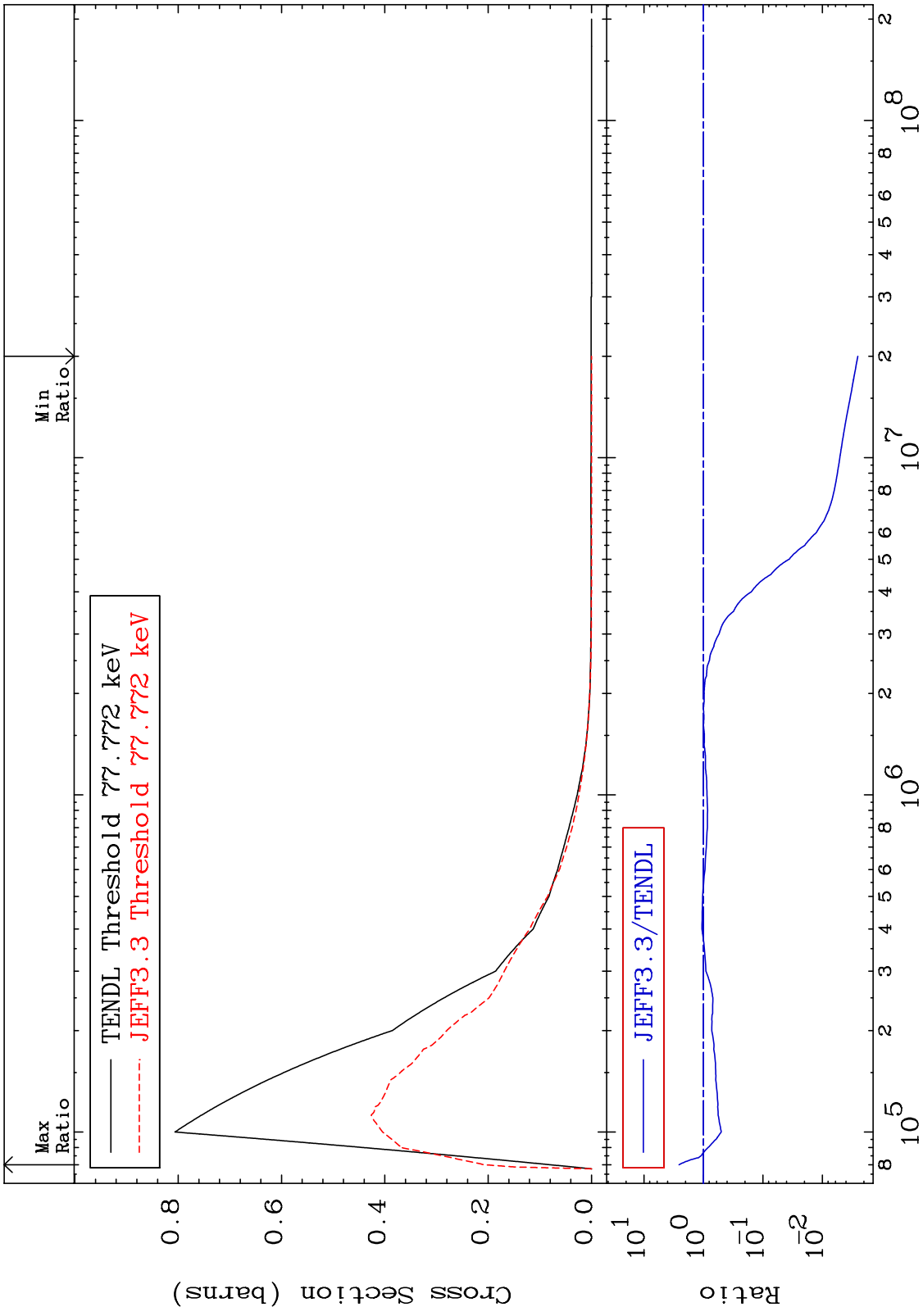
MAT 6328 MT= 51 (n,n') Level Cross Section 63-Eu-152
 -30.22 To 9999. %



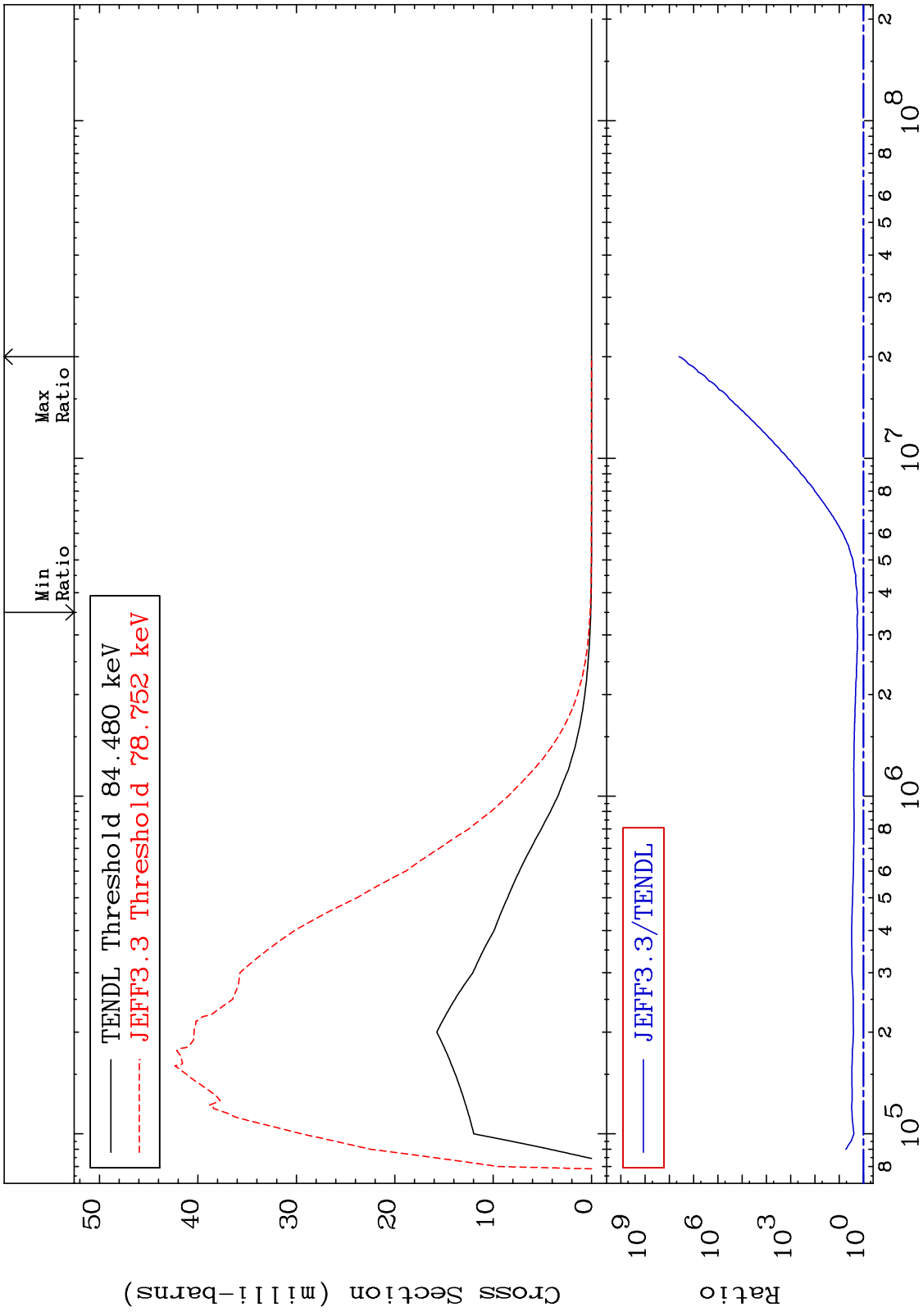
MAT 6328 MT= 52 (n,n') Level Cross Section 63-Eu-152 -99.27 To 86.42 %



MAT 6328 MT= 53 (n,n') Level Cross Section 63-Eu-152
 -99.75 To 157.3 %

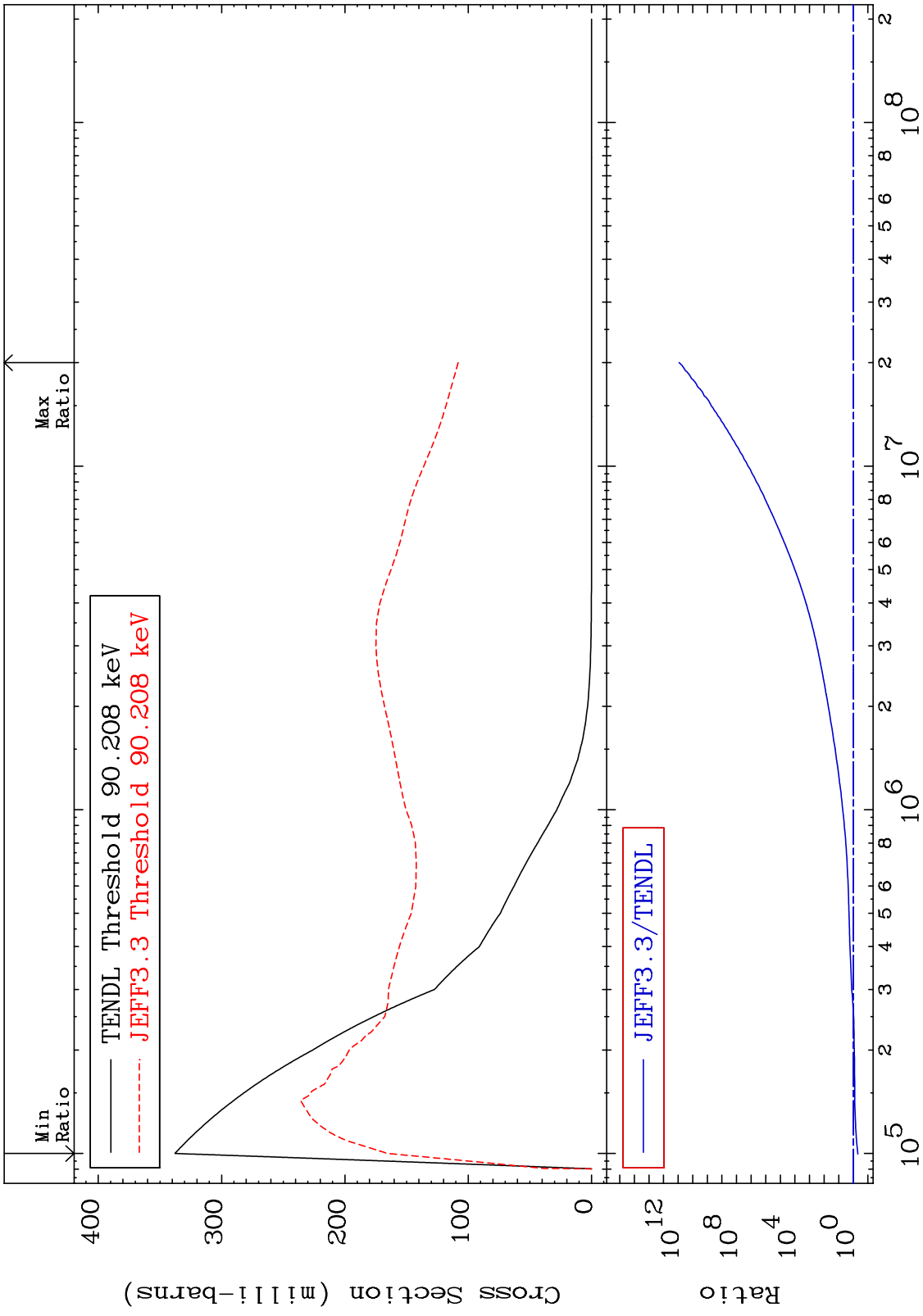


MAT 6328 MT= 54 (n,n') Level Cross Section 63-Eu-152 69.54 To 9999. %



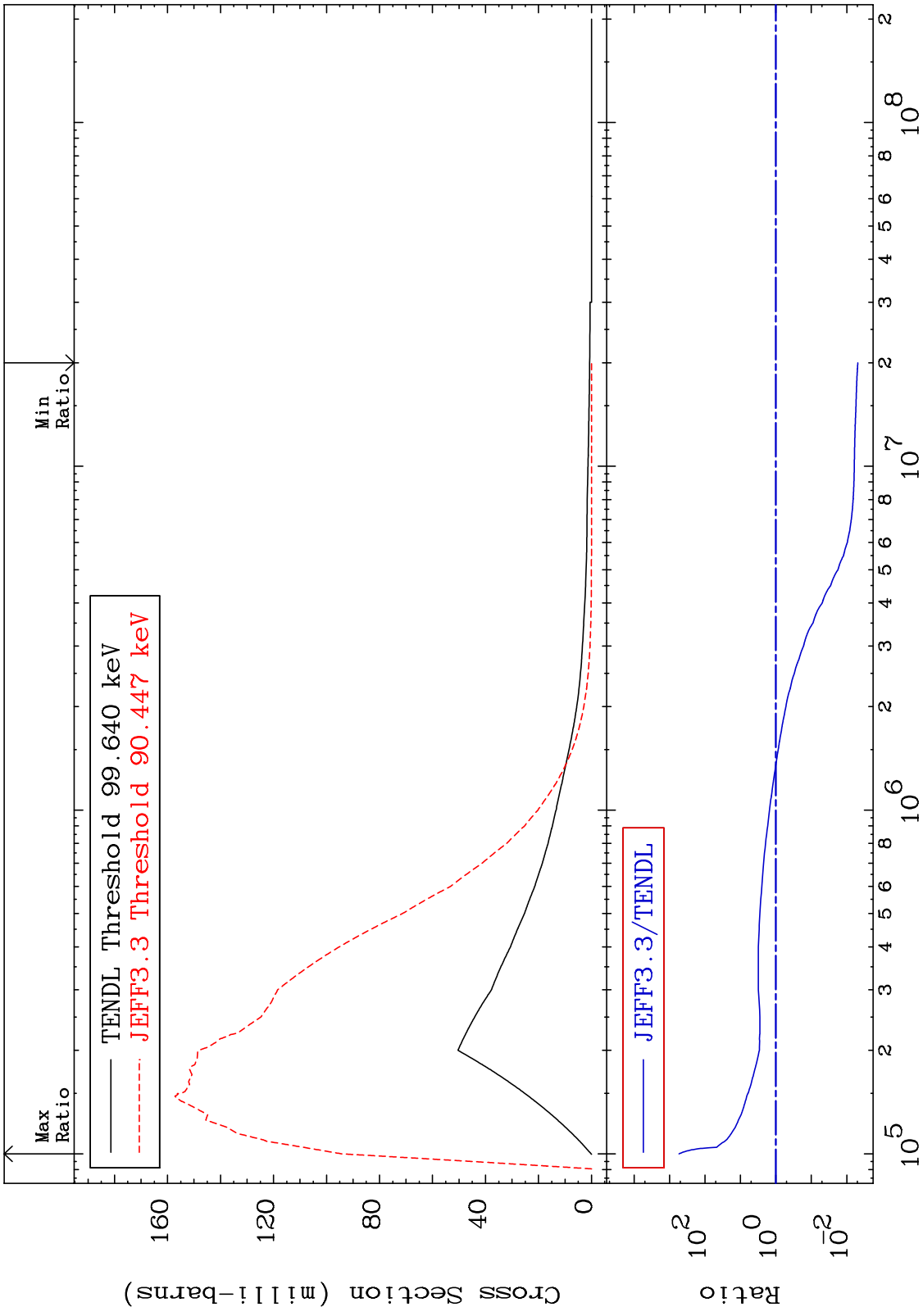
15 Incident Energy (eV) 63-Eu-152

MAT 6328 MT= 55 (n,n') Level Cross Section 63-Eu-152
 -50.98 To 9999. %

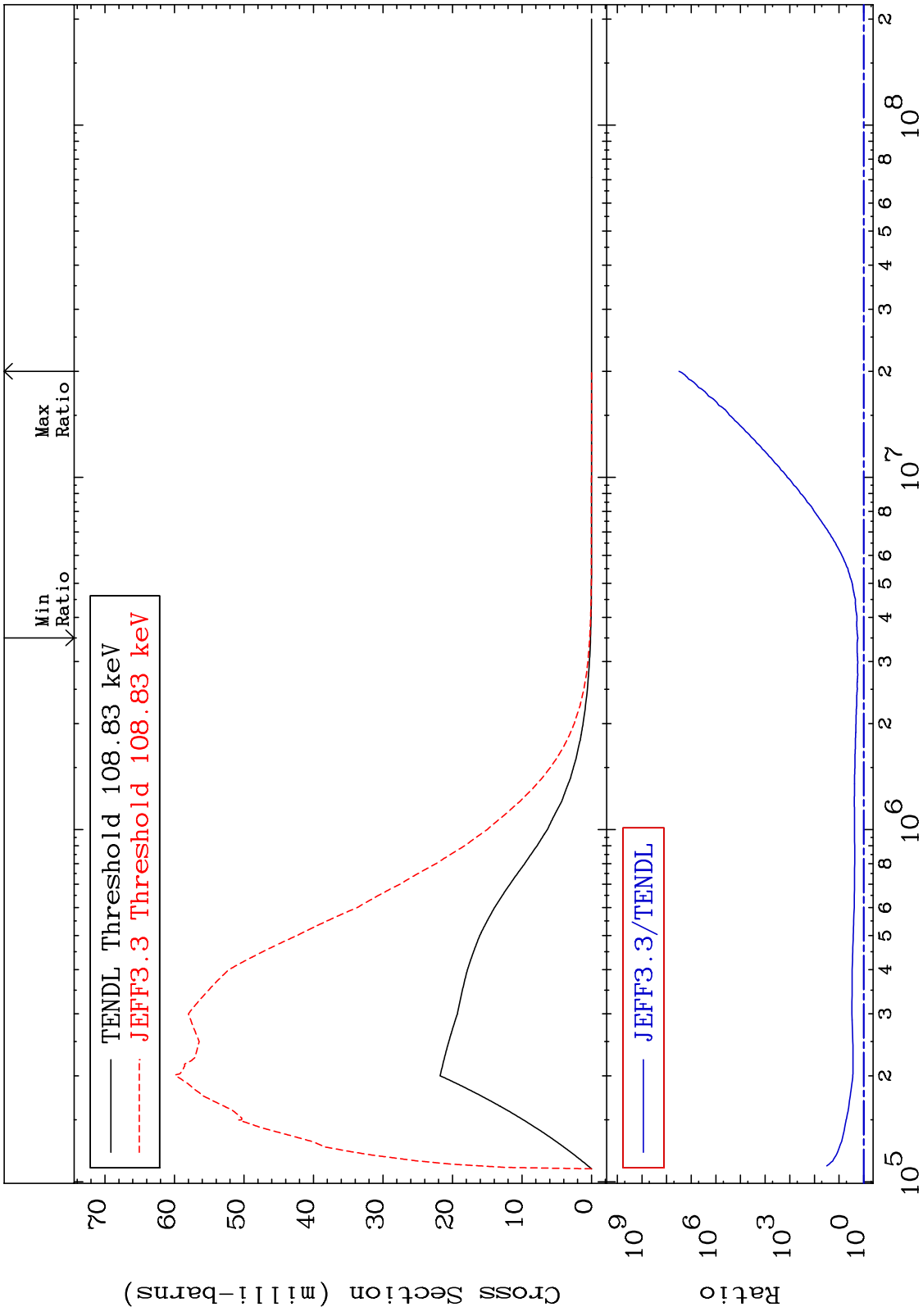


16 Incident Energy (eV) 63-Eu-152

MAT 6328 MT= 56 (n,n') Level Cross Section 63-Eu-152 -99.51 To 9999. %

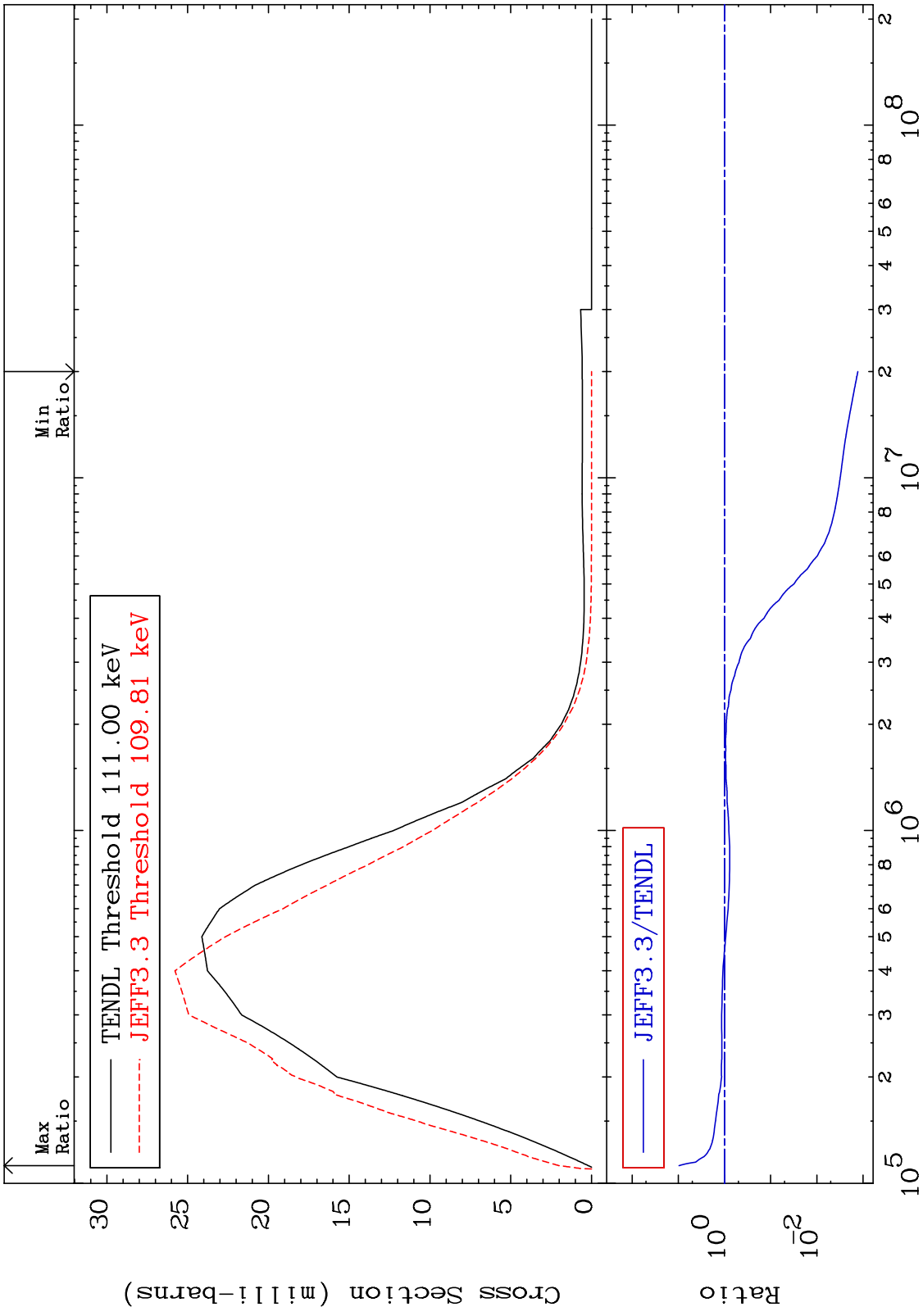


MAT 6328 MT= 57 (n,n') Level Cross Section 63-Eu-152 72.53 To 9999. %



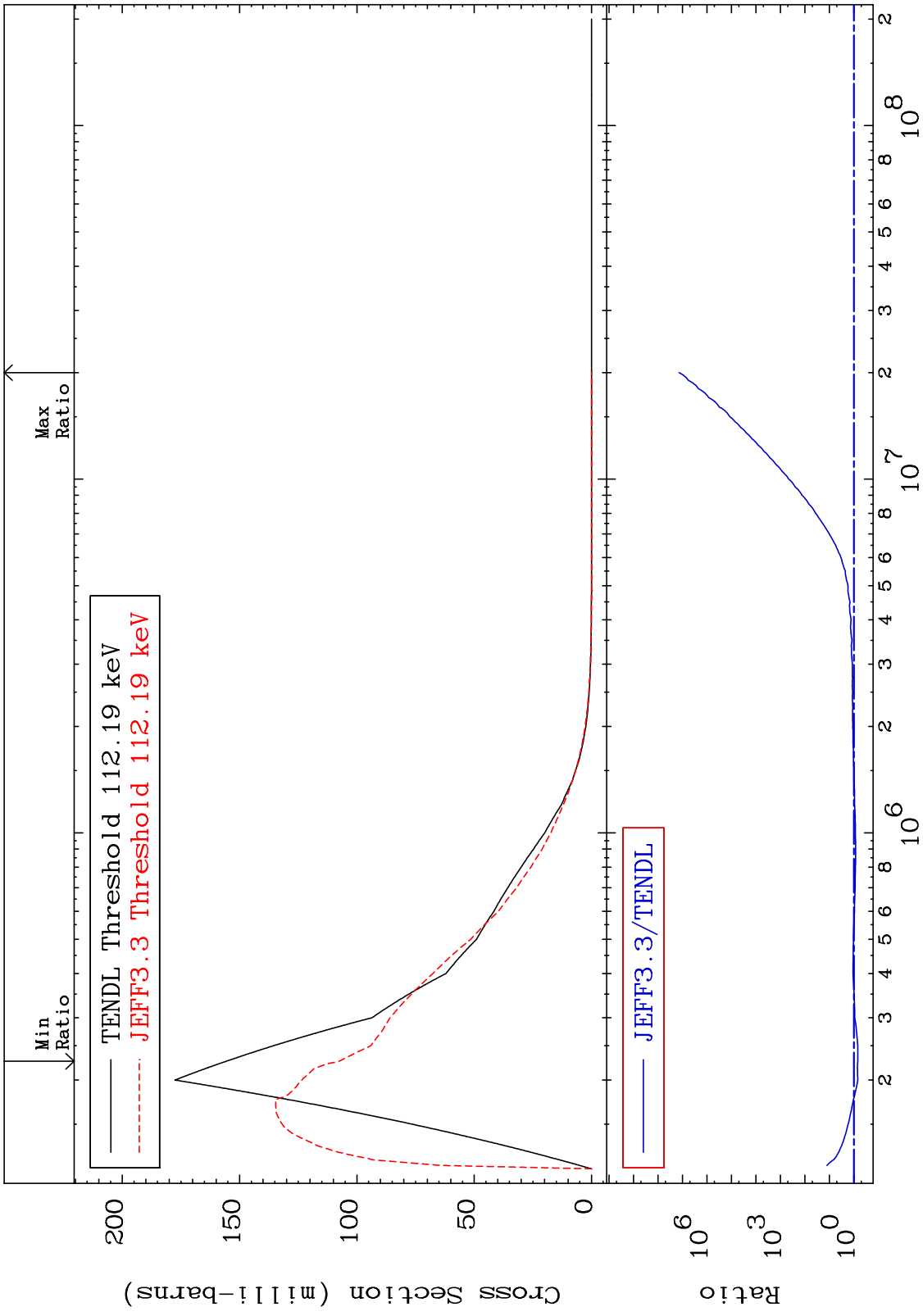
18 63-Eu-152

MAT 6328 MT= 58 (n,n') Level Cross Section 63-Eu-152 -99.87 To 865.3 %

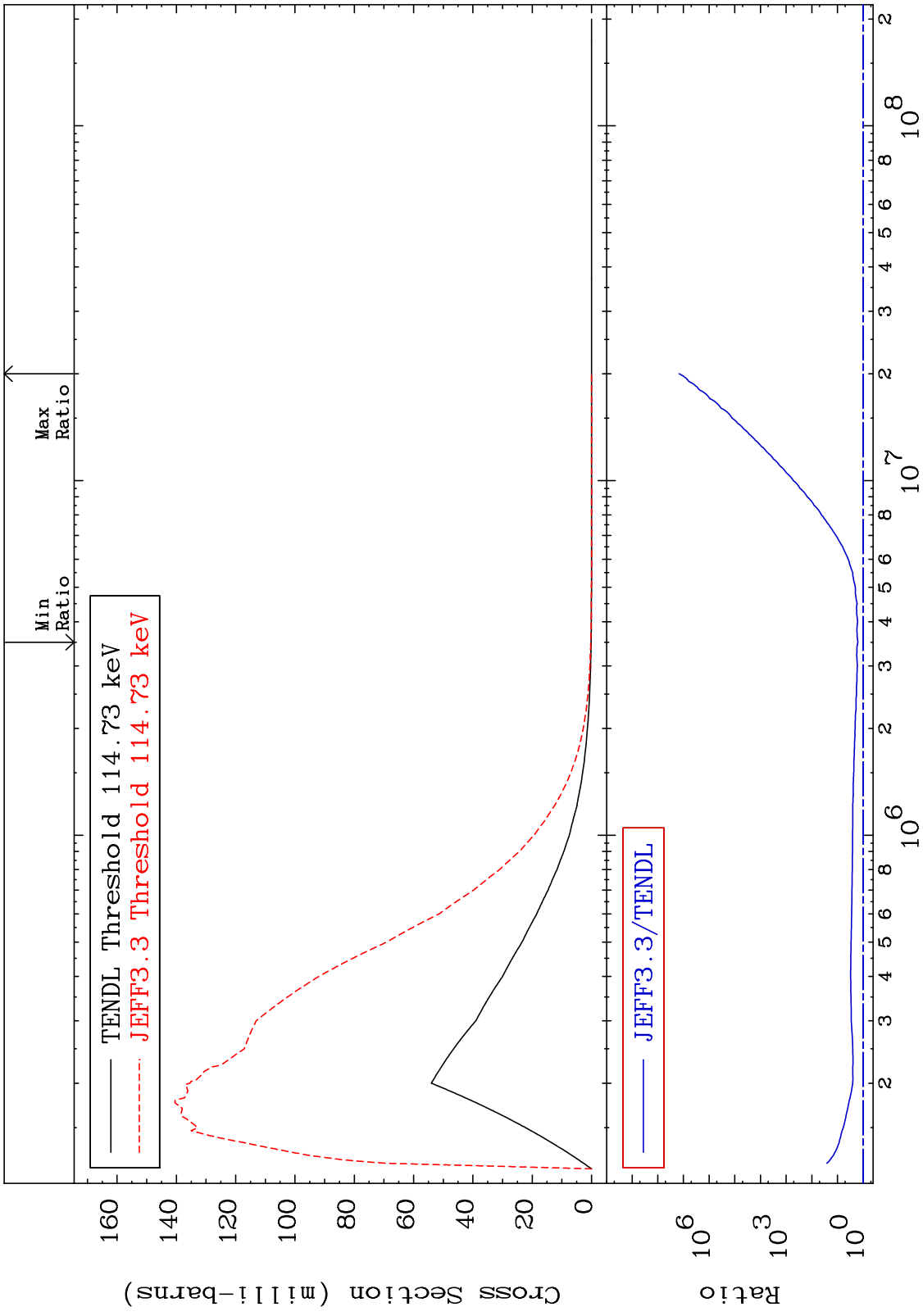


19 63-Eu-152

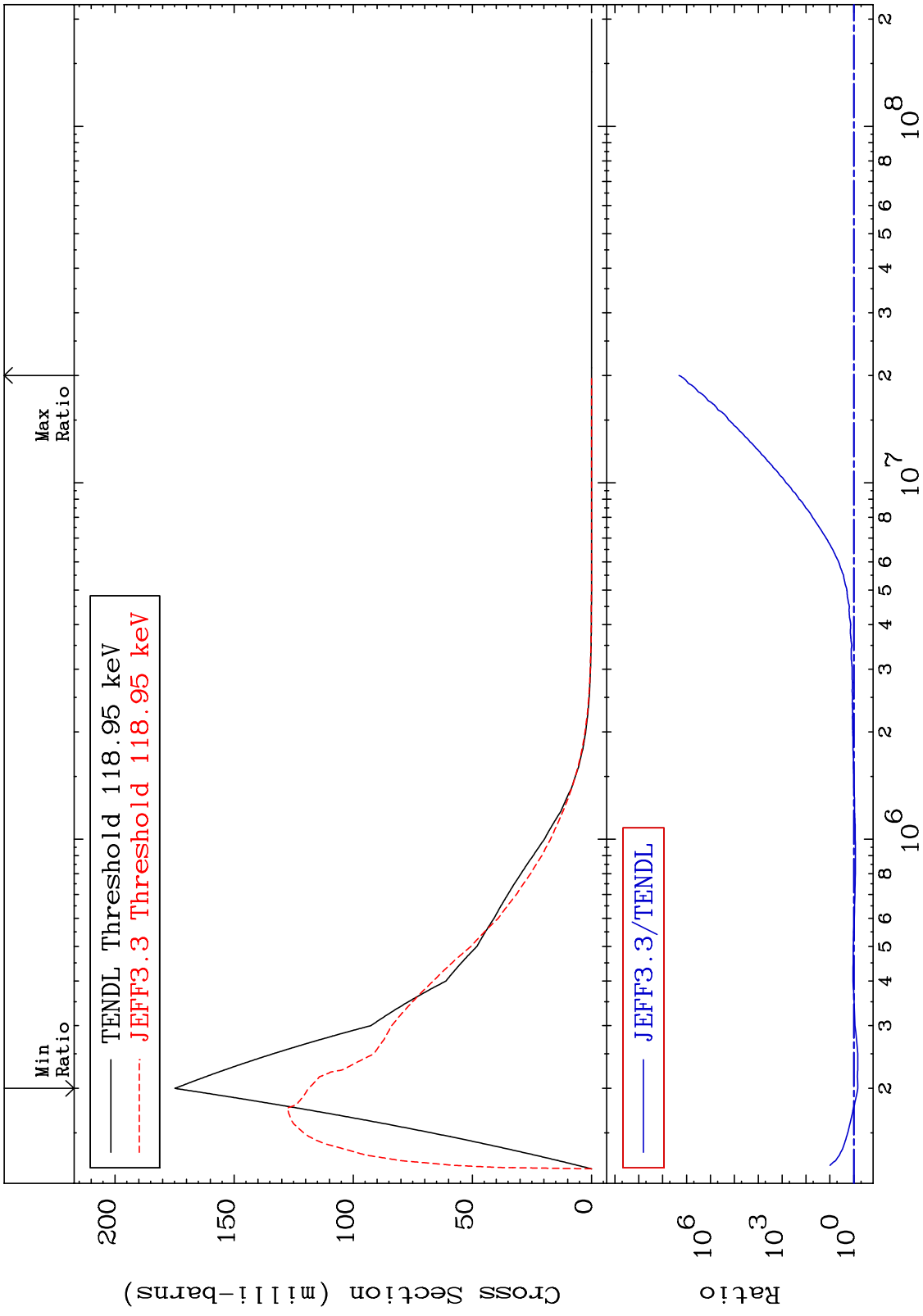
MAT 6328 MT= 59 (n,n') Level Cross Section 63-Eu-152
 -30.92 To 9999. %



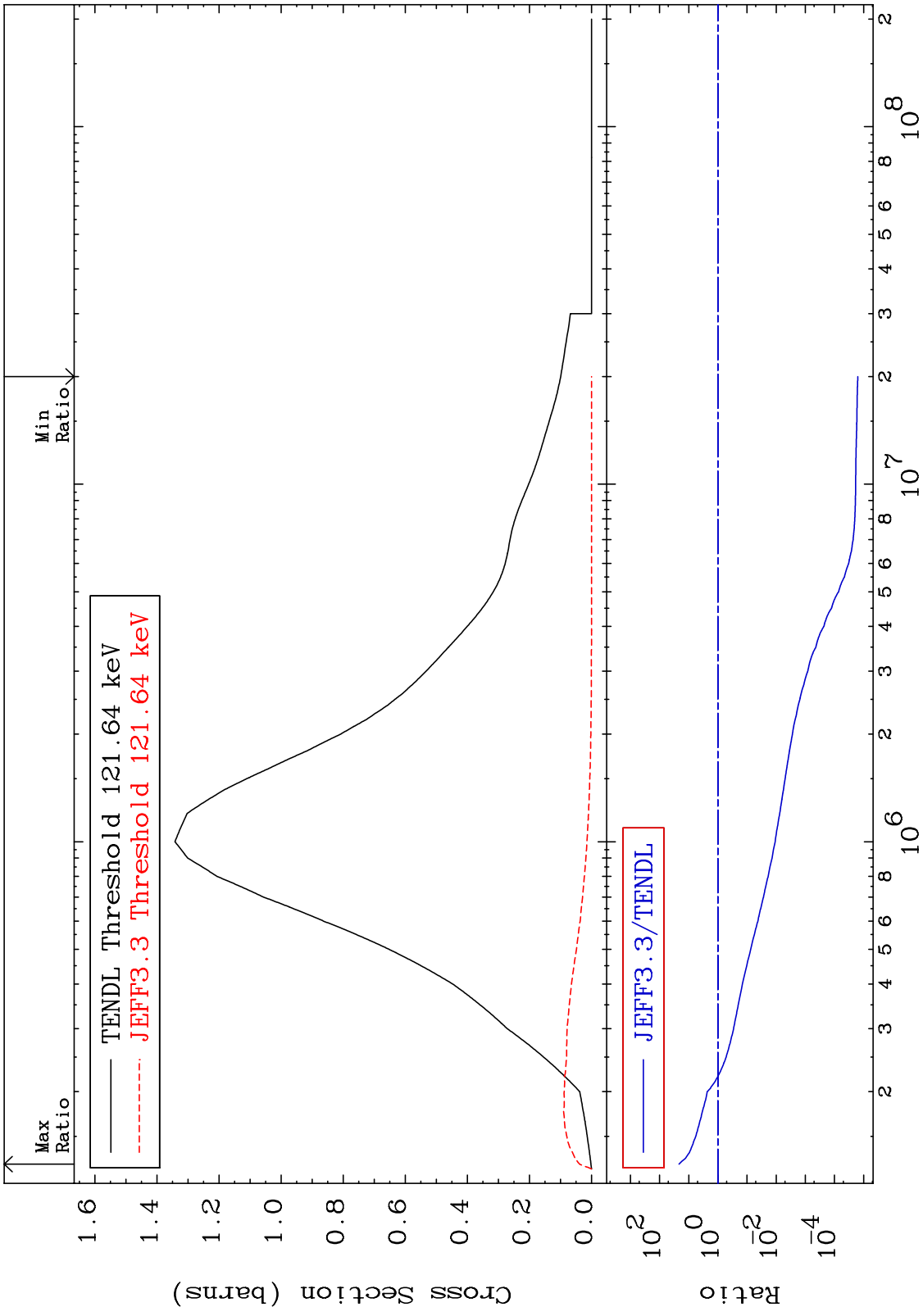
MAT 6328 MT= 60 (n,n') Level Cross Section 60.62 To 9999. % 63-Eu-152



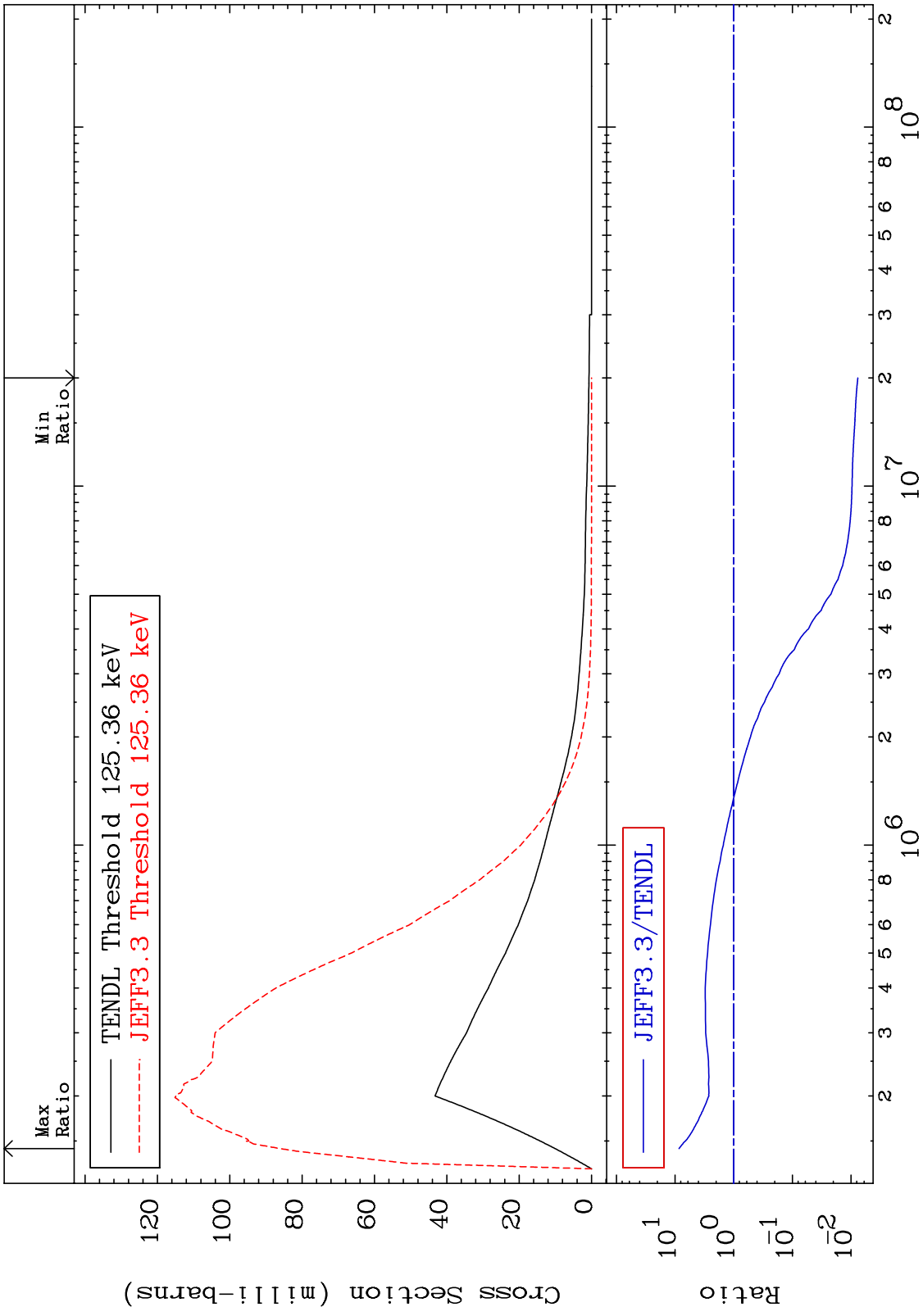
MAT 6328 MT= 61 (n,n') Level Cross Section 63-Eu-152
 -32.16 To 9999. %



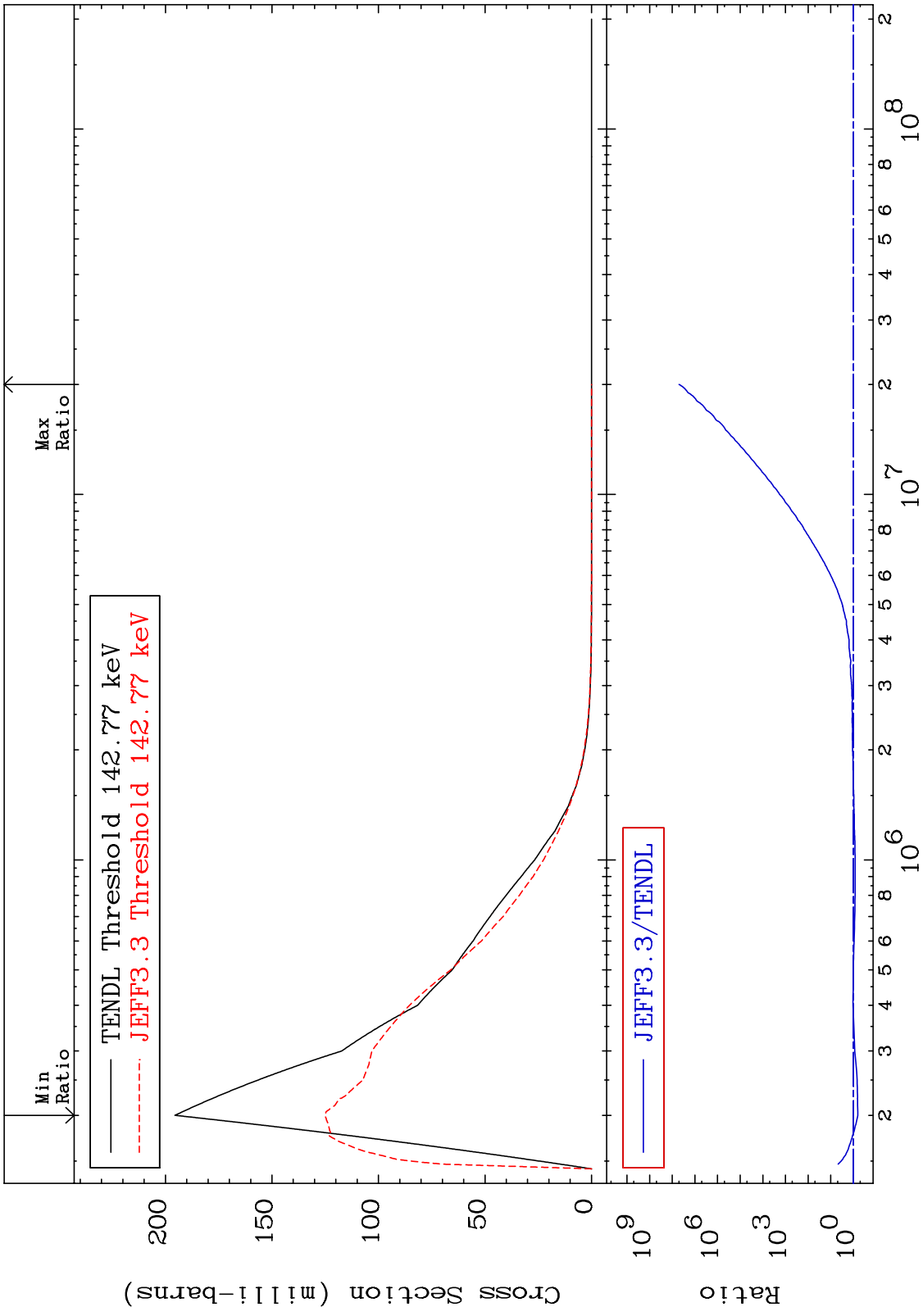
MAT 6328 MT= 62 (n,n') Level Cross Section 63-Eu-152
 -100.0 To 2045. %



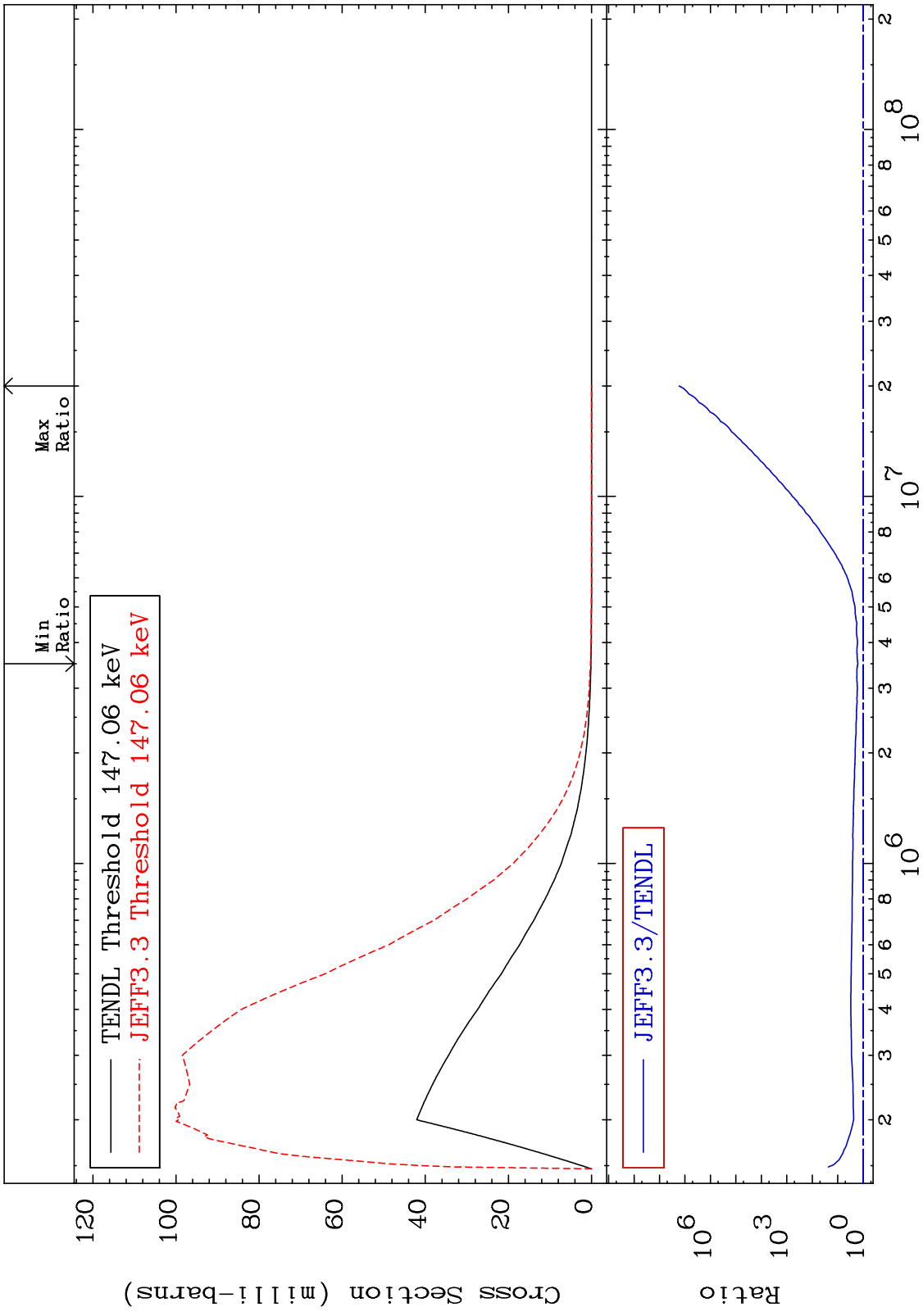
MAT 6328 MT= 63 (n,n') Level Cross Section 63-Eu-152
 -99.23 To 754.0 %



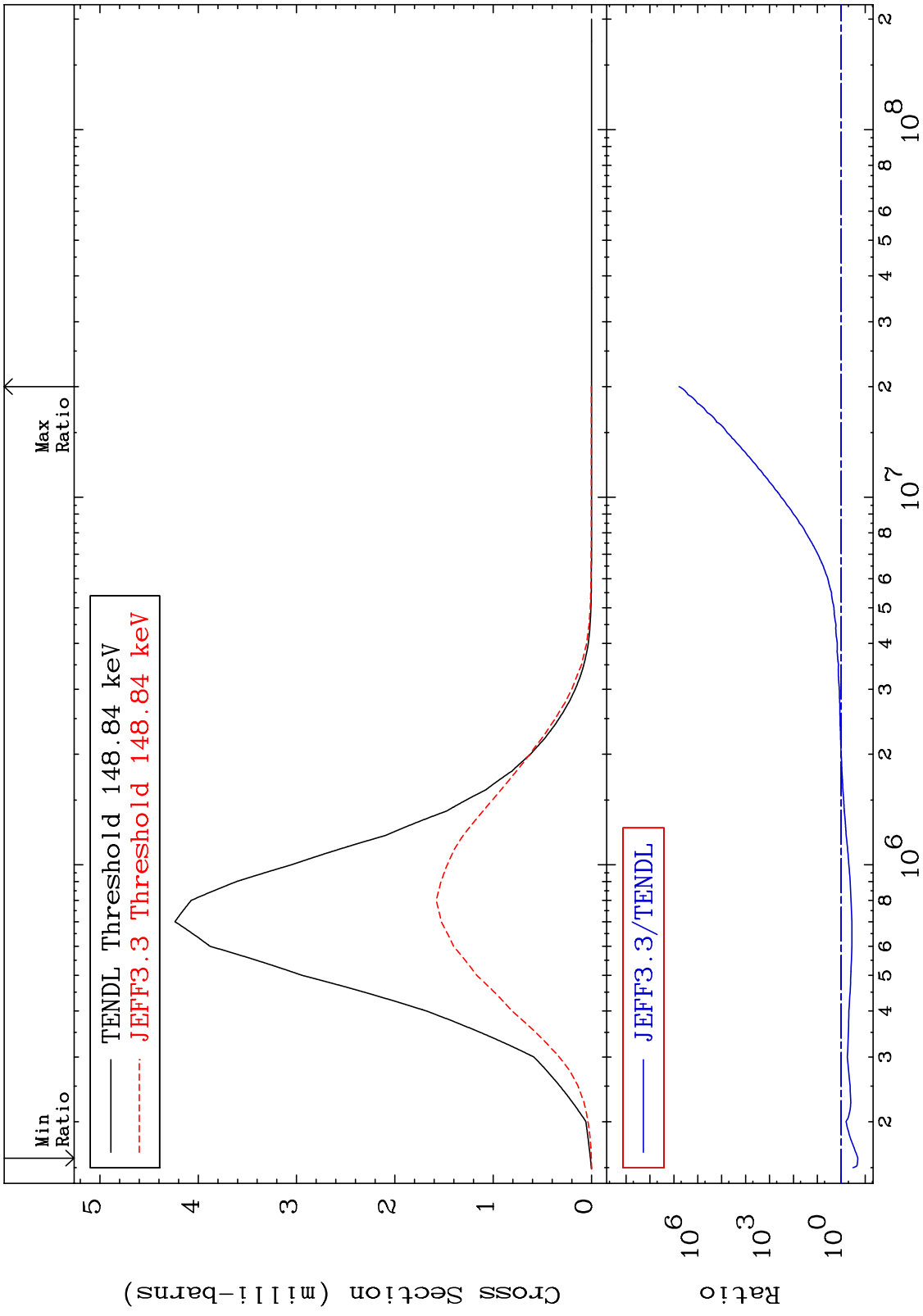
MAT 6328 MT= 64 (n,n') Level Cross Section 63-Eu-152
 -36.10 To 9999. %



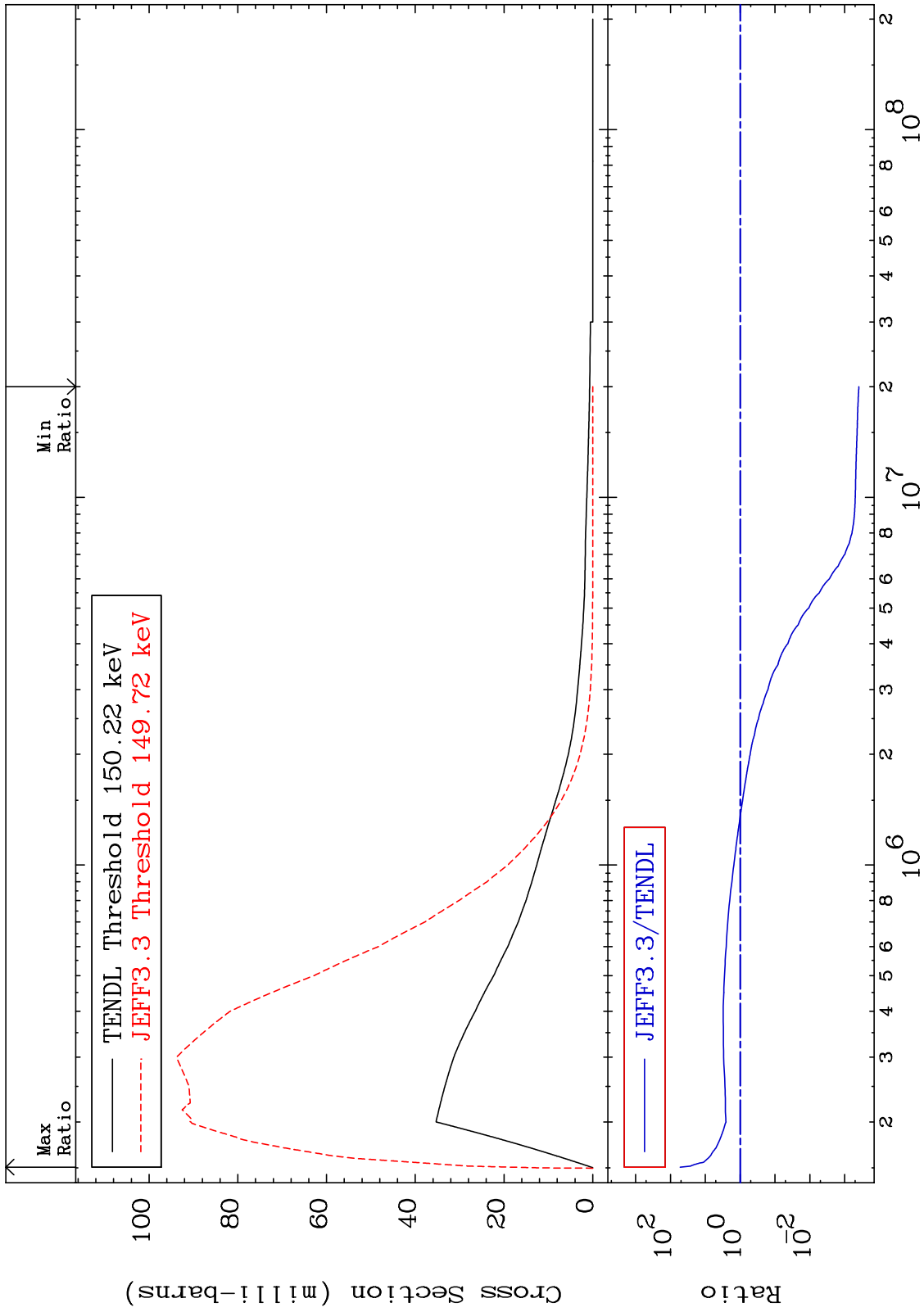
MAT 6328 MT= 65 (n,n') Level Cross Section 63-Eu-152 61.70 To 9999. %



MAT 6328 MT= 66 (n,n') Level Cross Section 63-Eu-152
 -79.79 To 9999. %

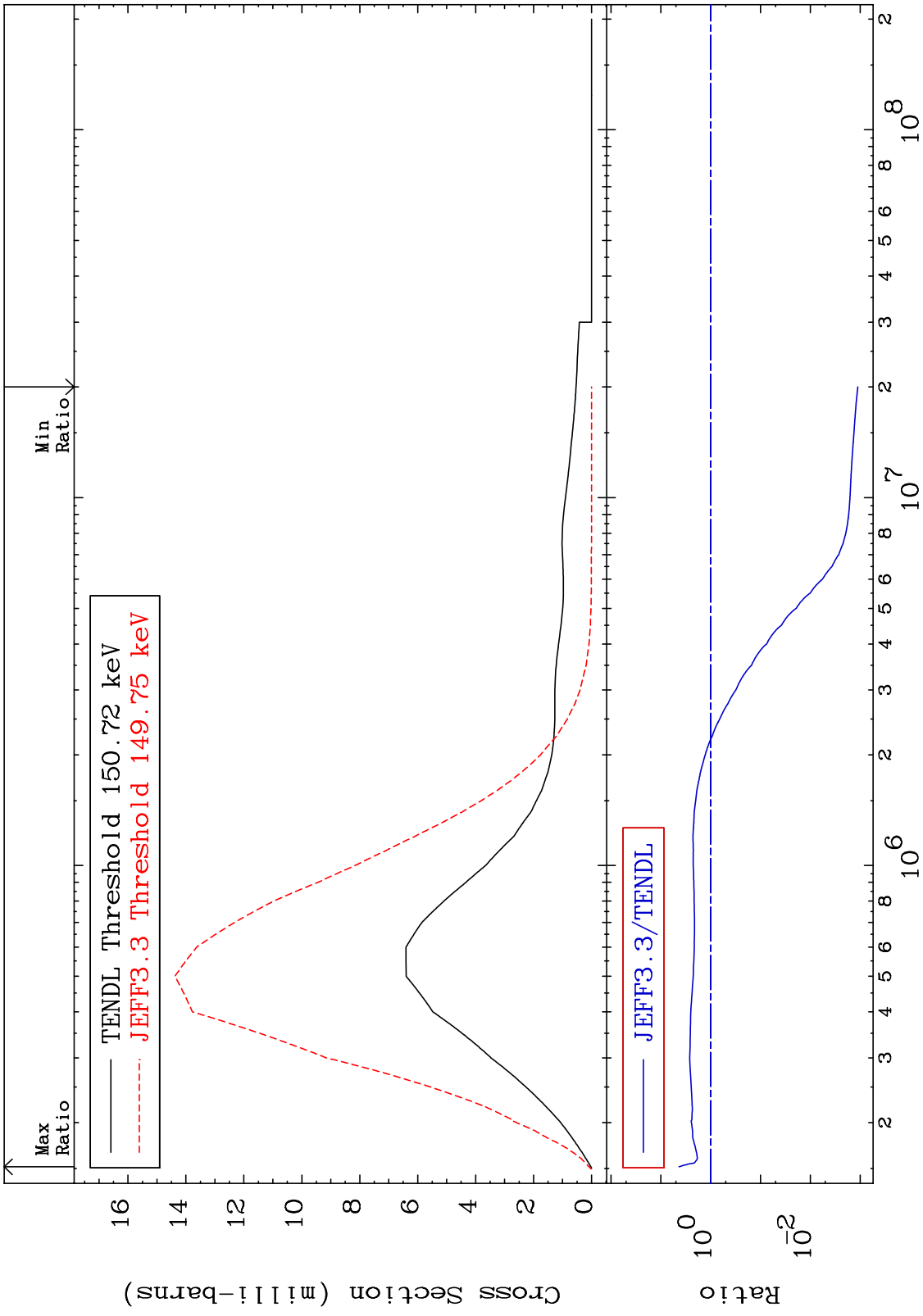


MAT 6328 MT= 67 (n,n') Level Cross Section 63-Eu-152 -99.96 To 5153. %

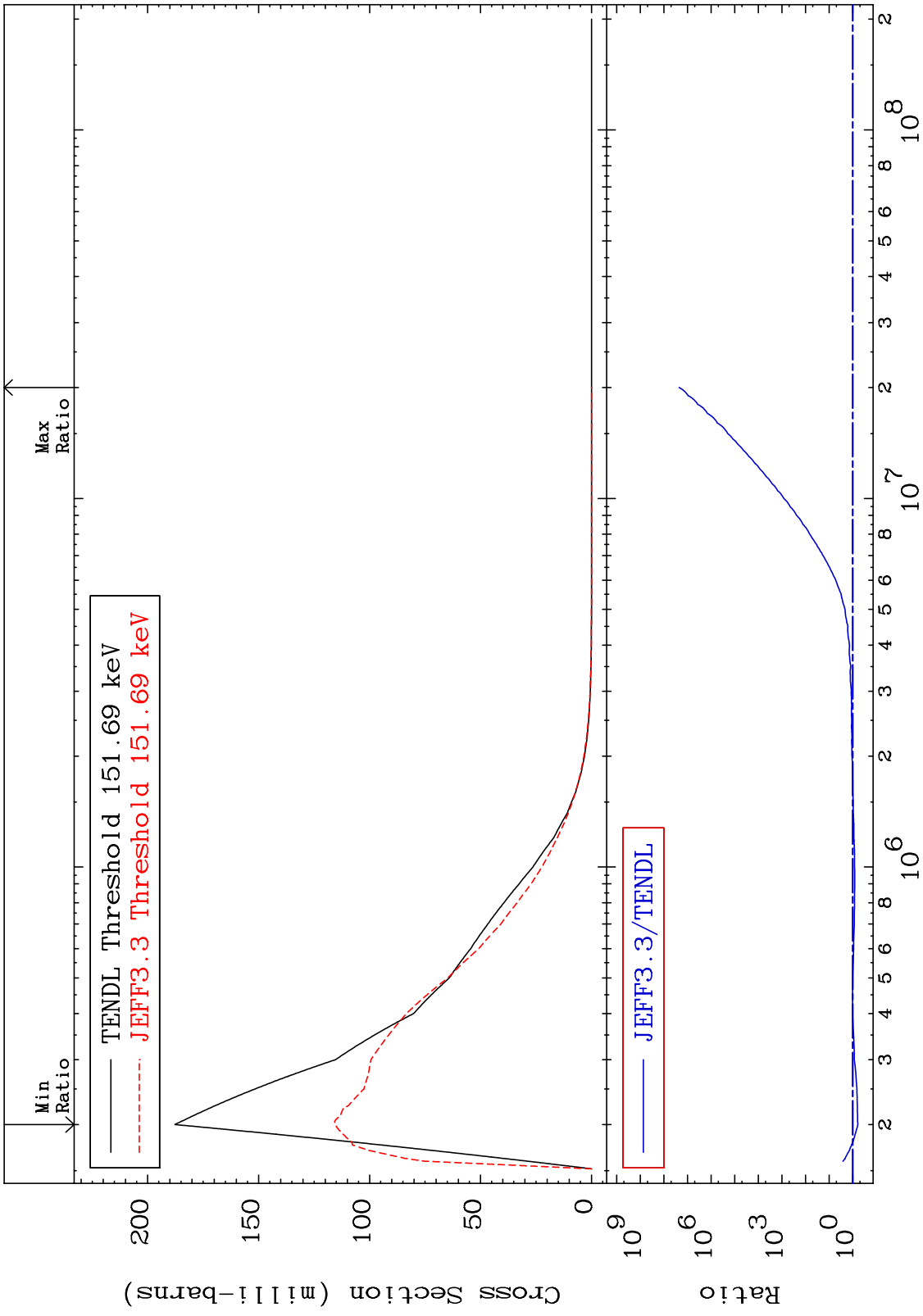


28 Incident Energy (eV) 63-Eu-152

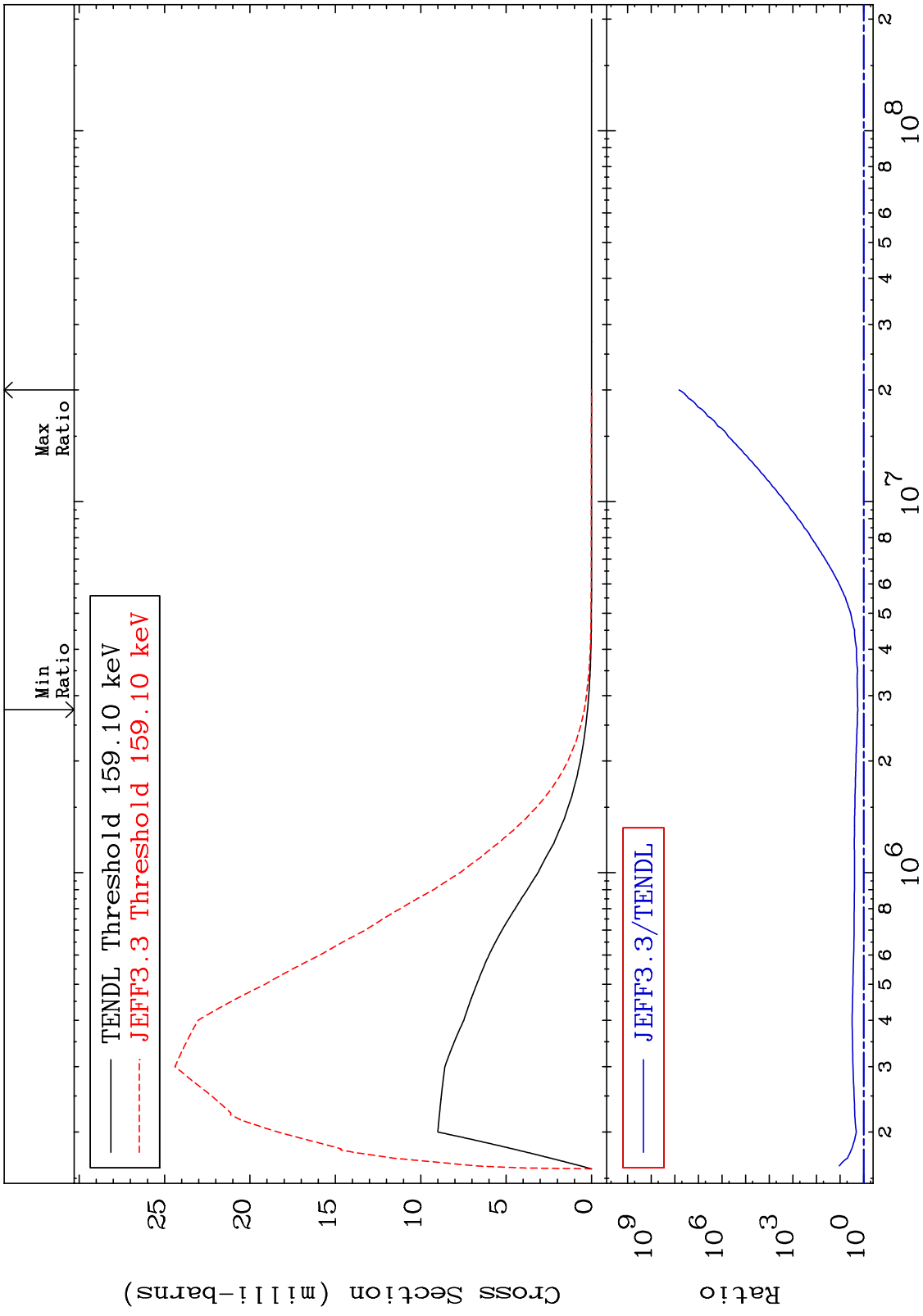
MAT 6328 MT= 68 (n,n') Level Cross Section 63-Eu-152 -99.89 To 331.2 %



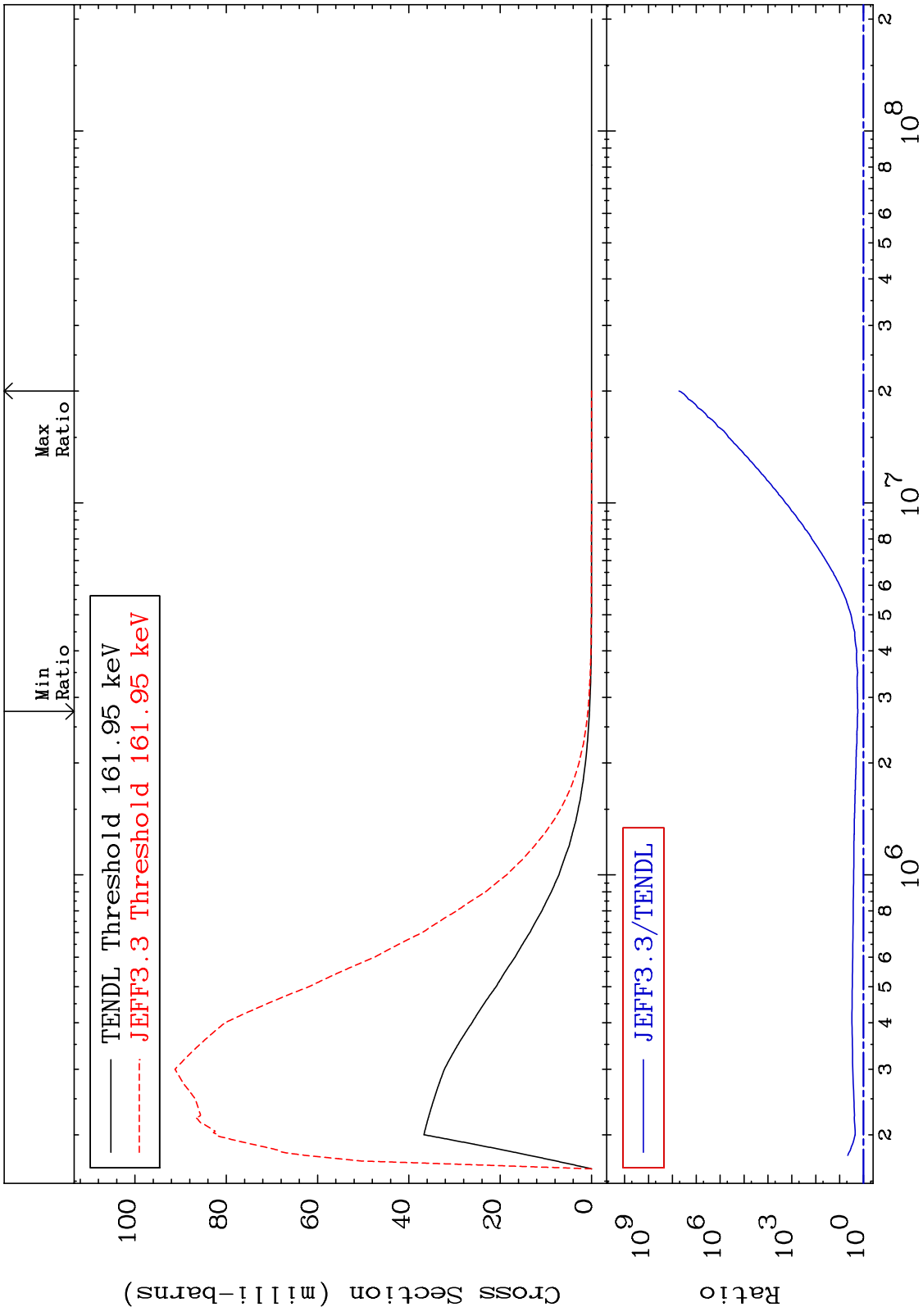
MAT 6328 MT= 69 (n,n') Level Cross Section 63-Eu-152
 -38.51 To 9999. %



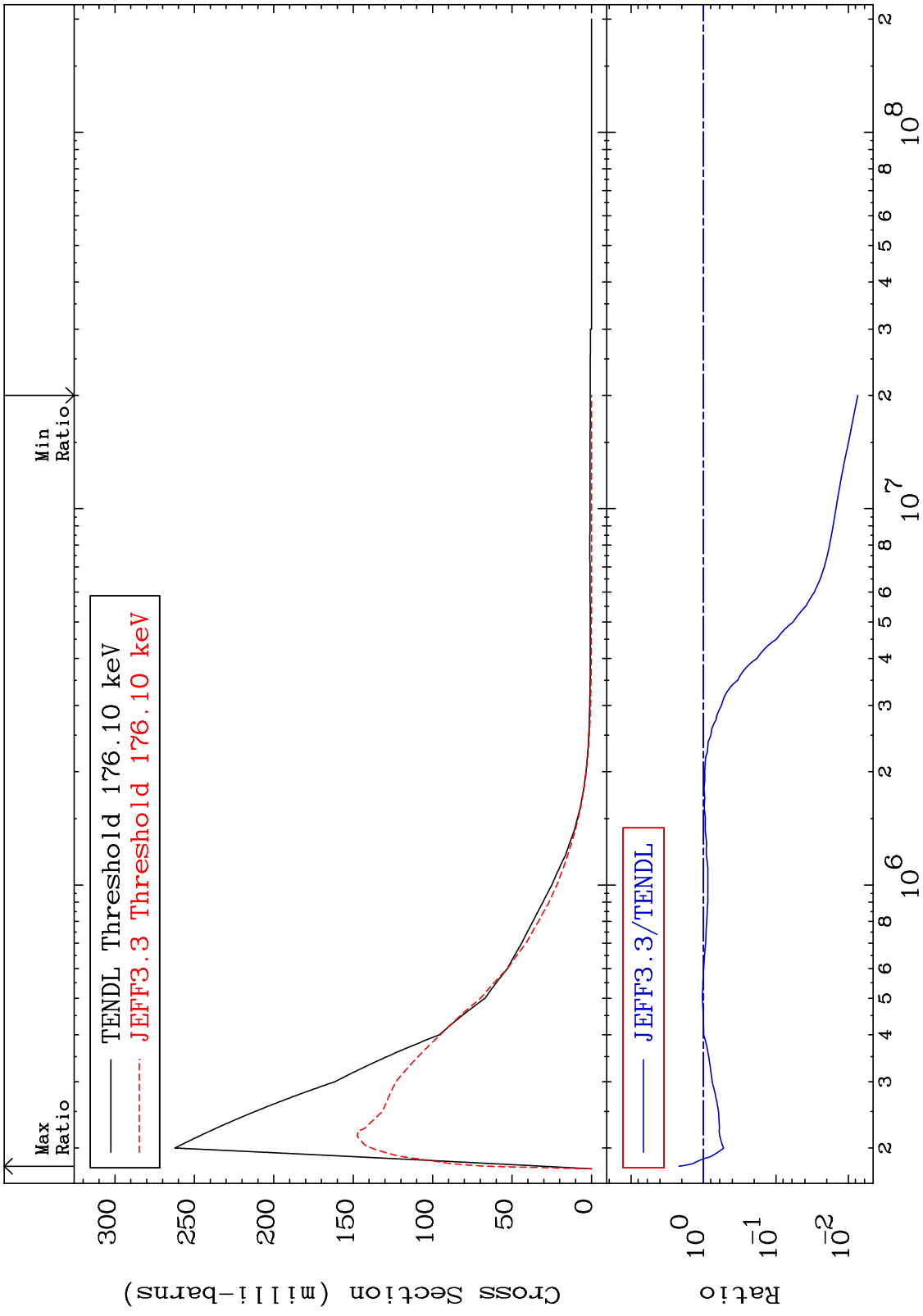
MAT 6328 MT= 70 (n,n') Level Cross Section 63-Eu-152 75.86 To 9999. %



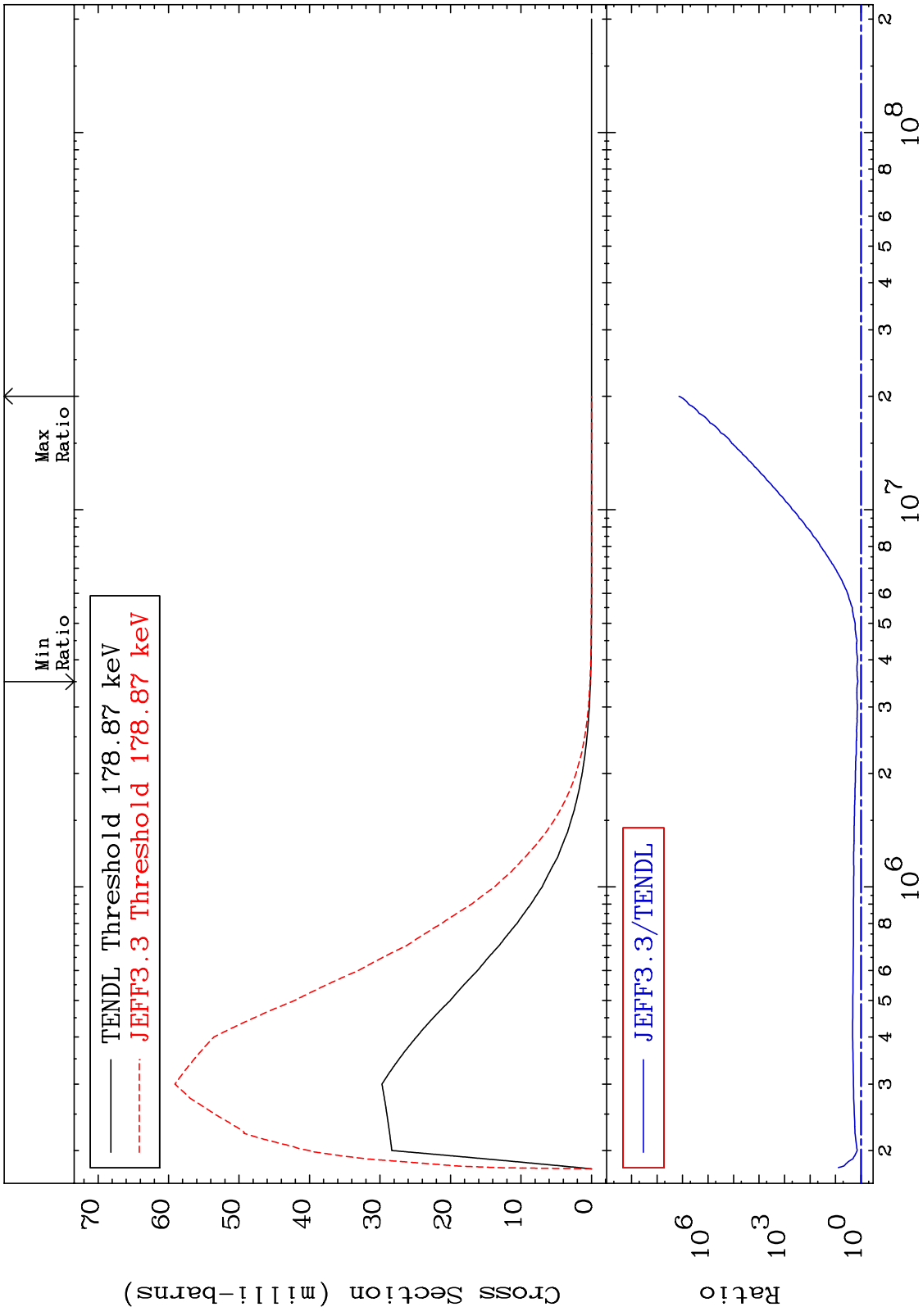
MAT 6328 MT= 71 (n,n') Level Cross Section 63-Eu-152 73.12 To 9999. %



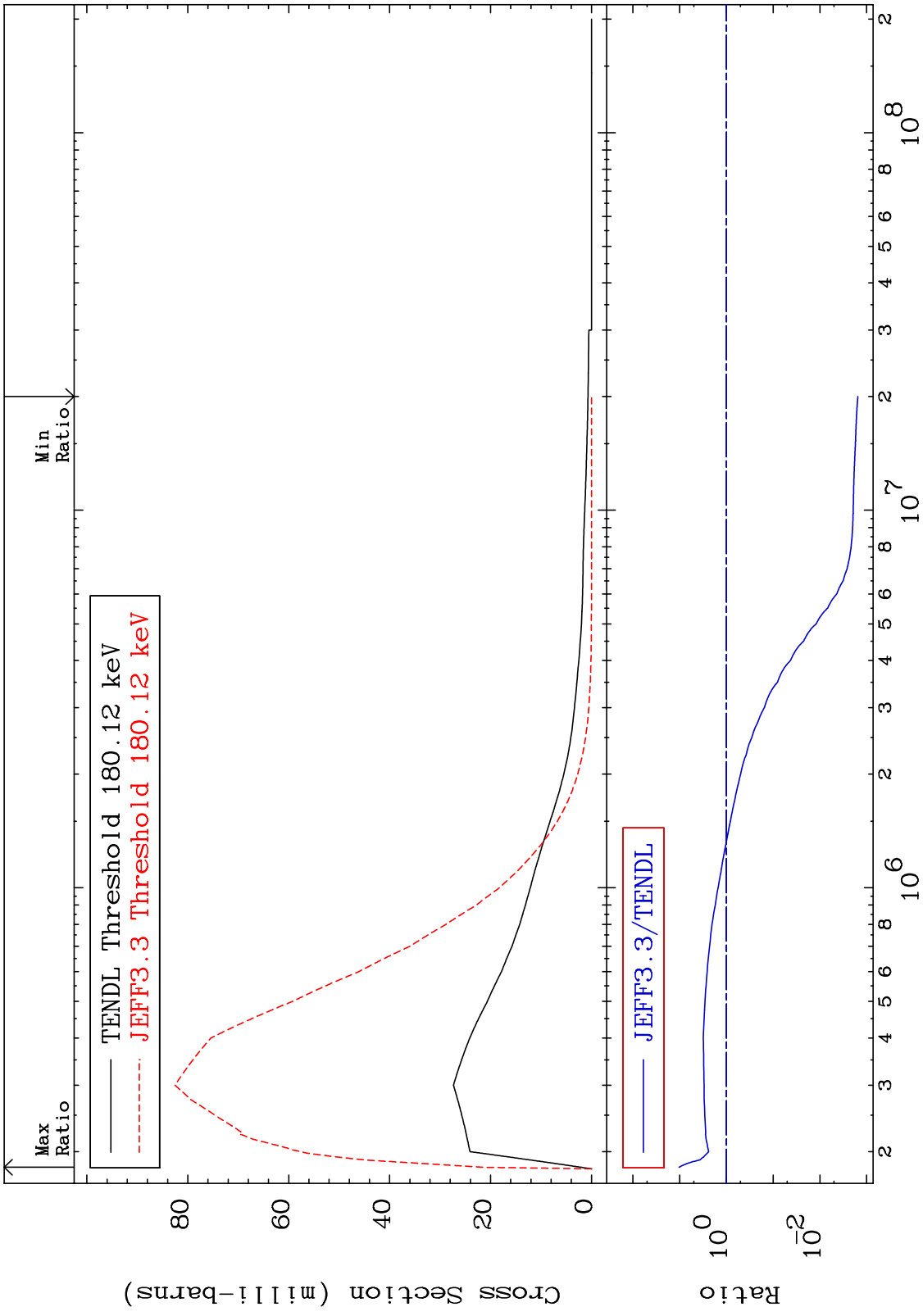
MAT 6328 MT= 72 (n,n') Level Cross Section 63-Eu-152 -99.26 To 118.0 %



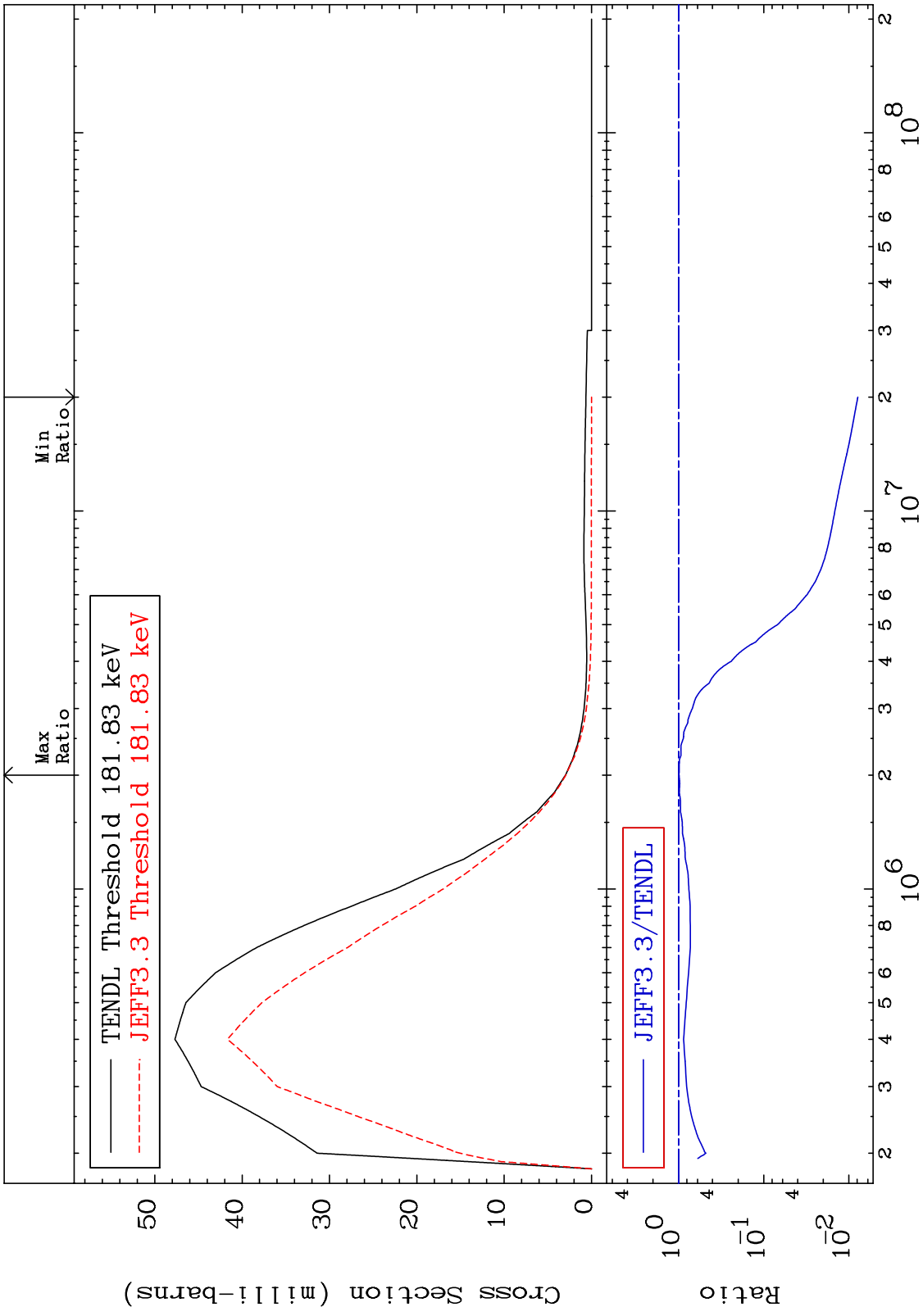
MAT 6328 MT= 73 (n,n') Level Cross Section 63-Eu-152 33.72 To 9999. %



MAT 6328 MT= 74 (n,n') Level Cross Section 63-Eu-152
 -99.85 To 932.3 %

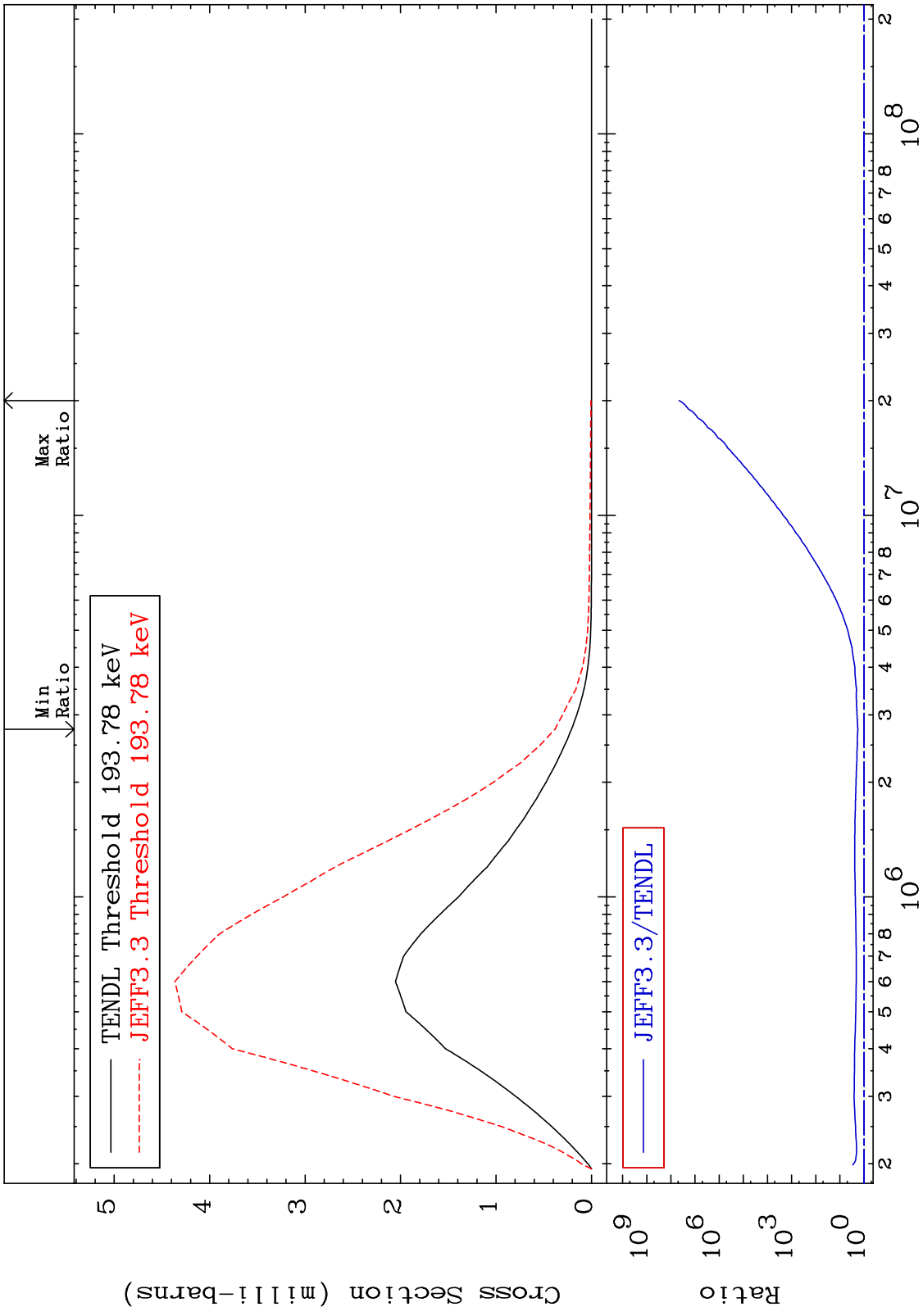


MAT 6328 MT= 75 (n,n') Level Cross Section 63-Eu-152 -99.21 To -1.144%

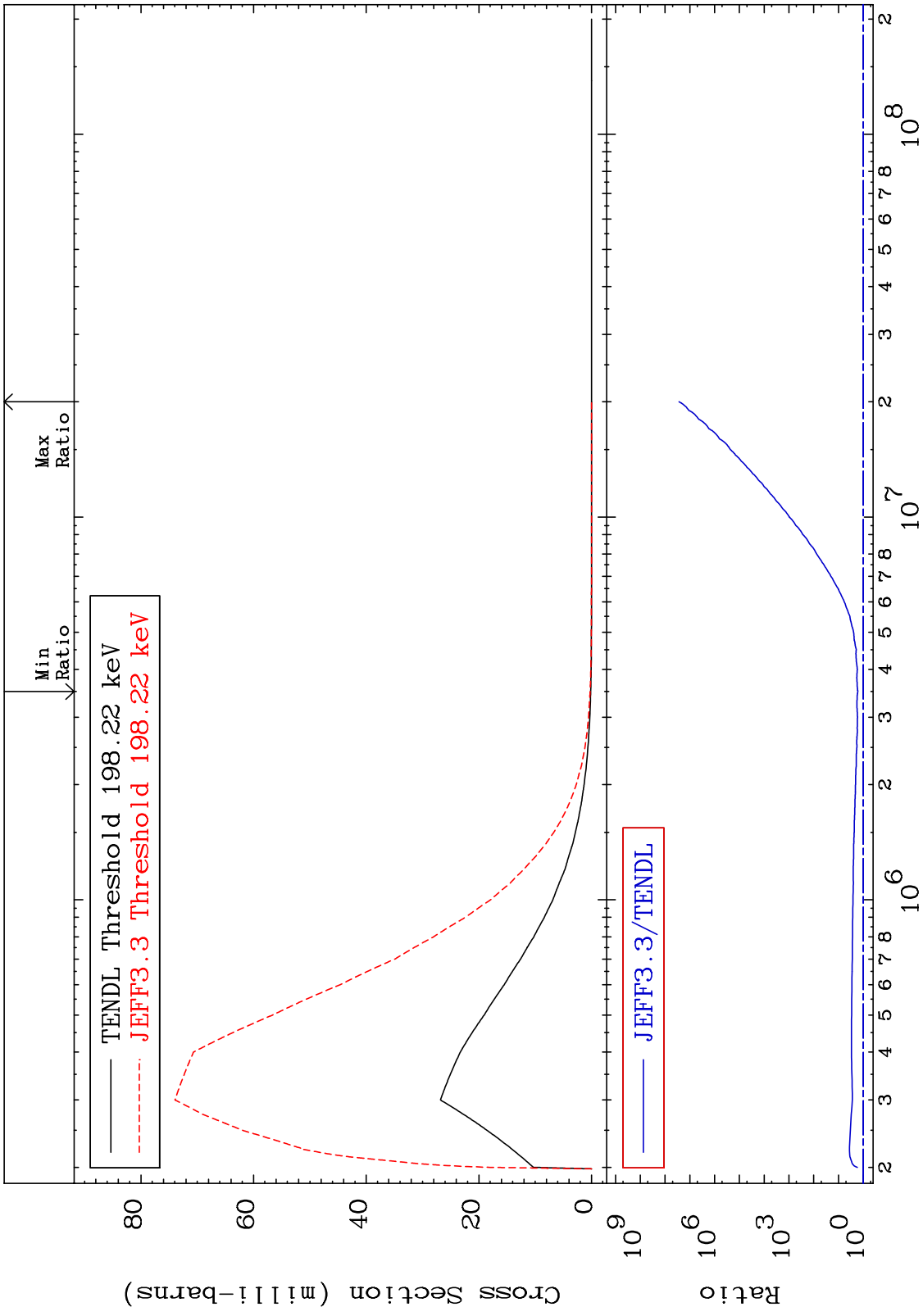


36 Incident Energy (eV) 63-Eu-152

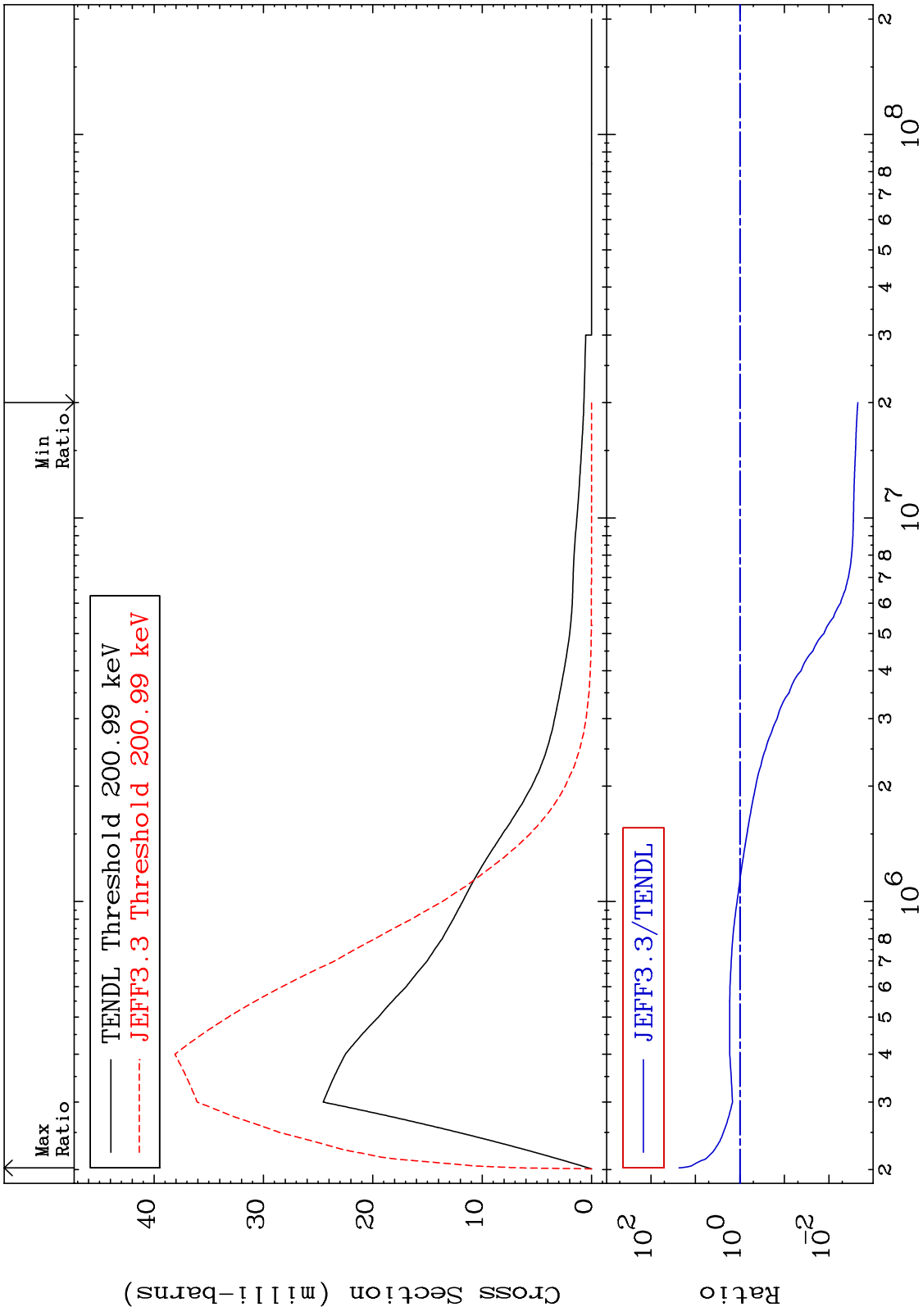
MAT 6328 MT= 76 (n,n') Level Cross Section 63-Eu-152 81.77 To 9999. %



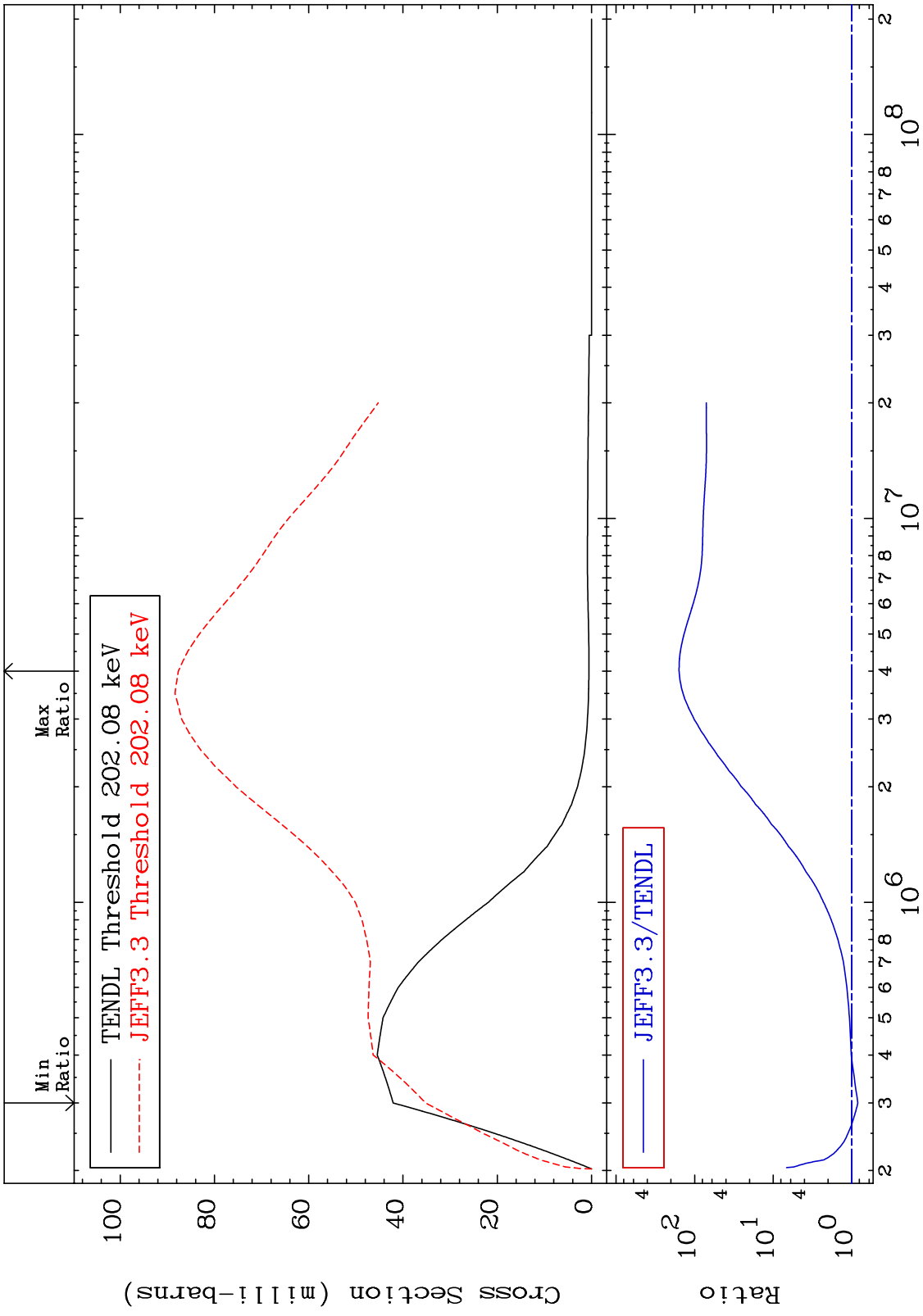
MAT 6328 MT= 77 (n,n') Level Cross Section 63-Eu-152 66.00 To 9999. %



MAT 6328 MT= 78 (n,n') Level Cross Section 63-Eu-152 -99.78 To 2231. %

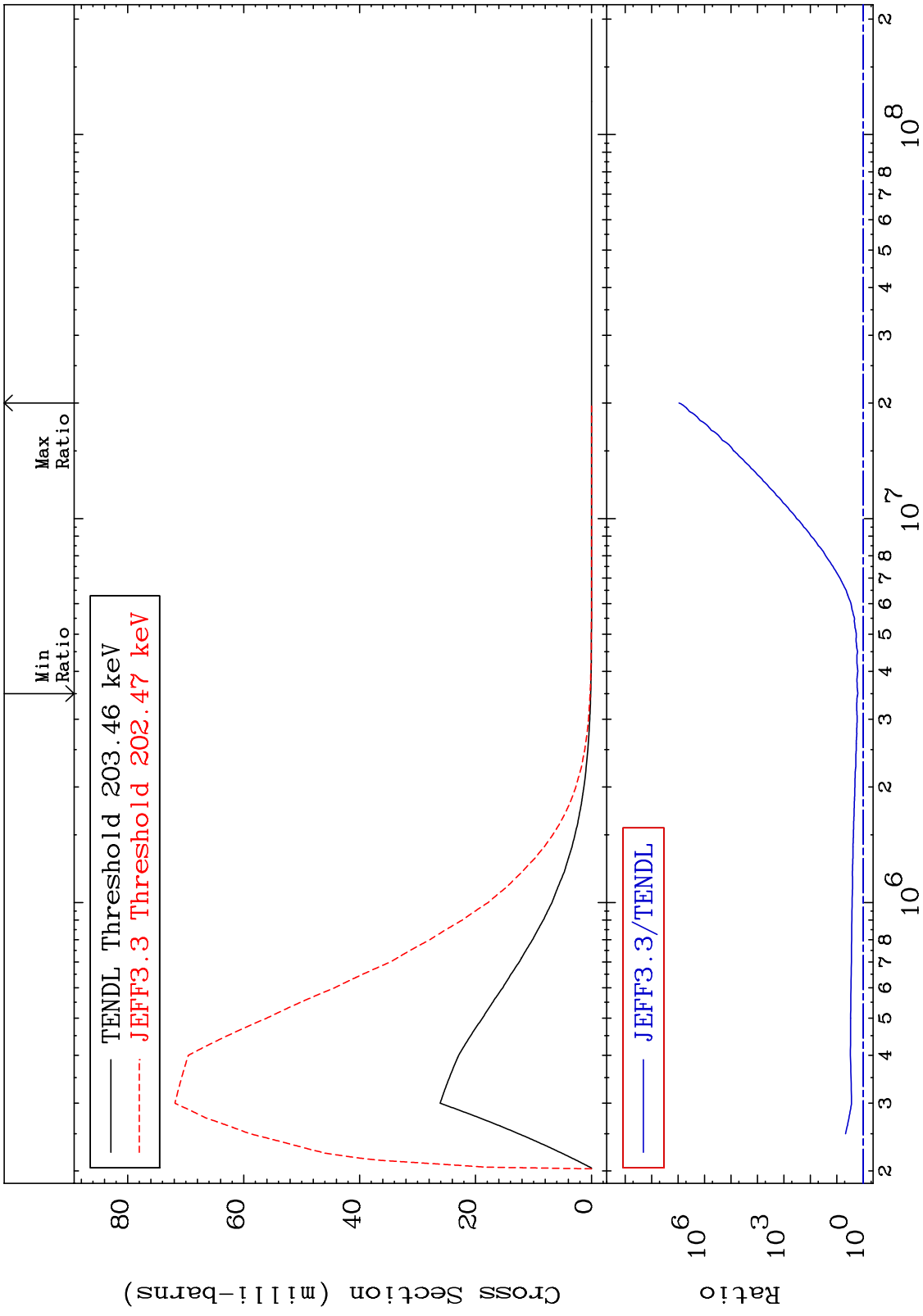


MAT 6328 MT= 79 (n,n') Level Cross Section 63-Eu-152
 -16.31 To 9999. %



40 Incident Energy (eV) 63-Eu-152

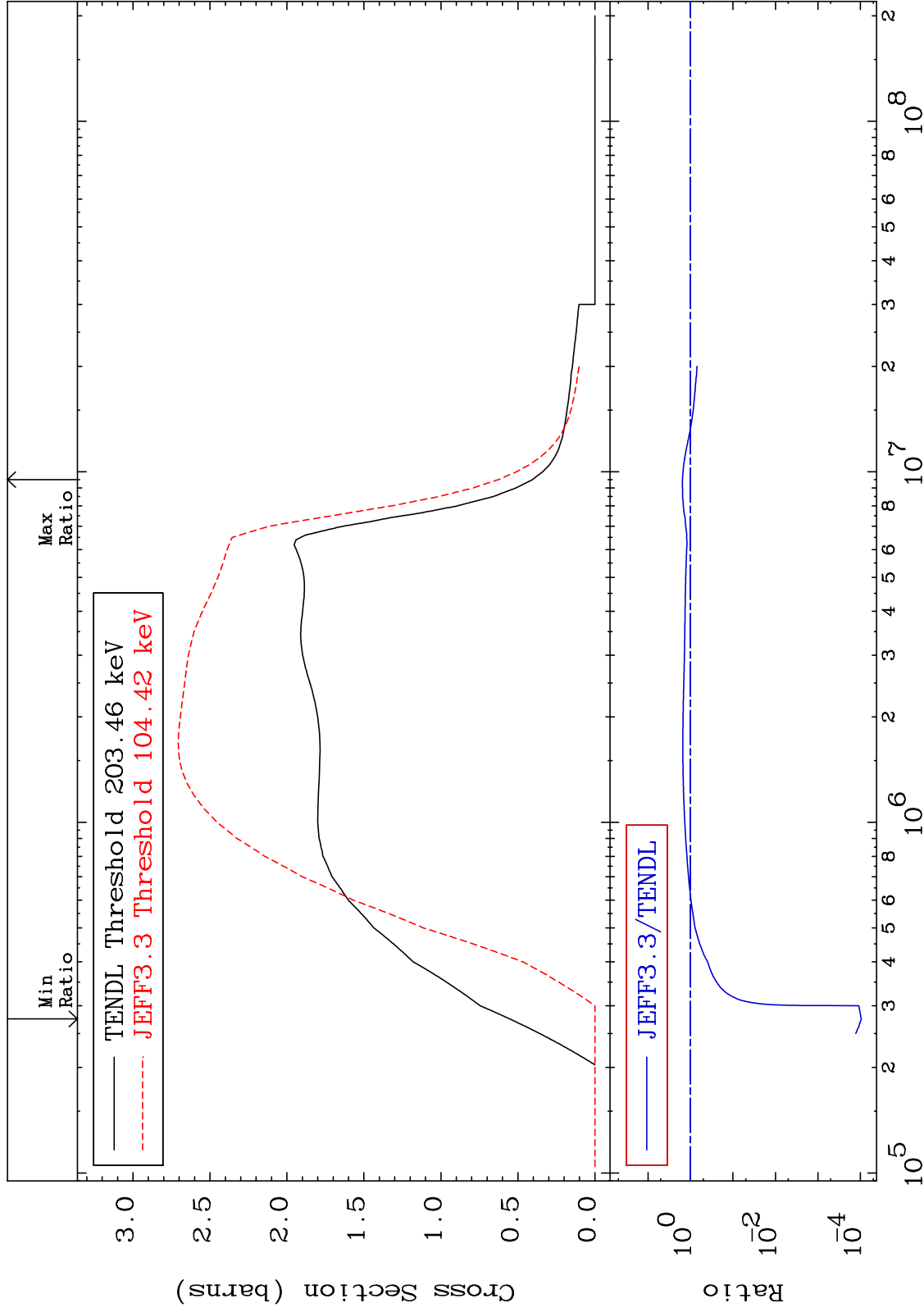
MAT 6328 MT= 80 (n,n') Level Cross Section 63-Eu-152 59.16 To 9999. %



MAT 6328

(n, n') Continuum
Cross Section

63-Eu-152
-99.99 To 54.57 %



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Incident Energy (eV)

63-Eu-152

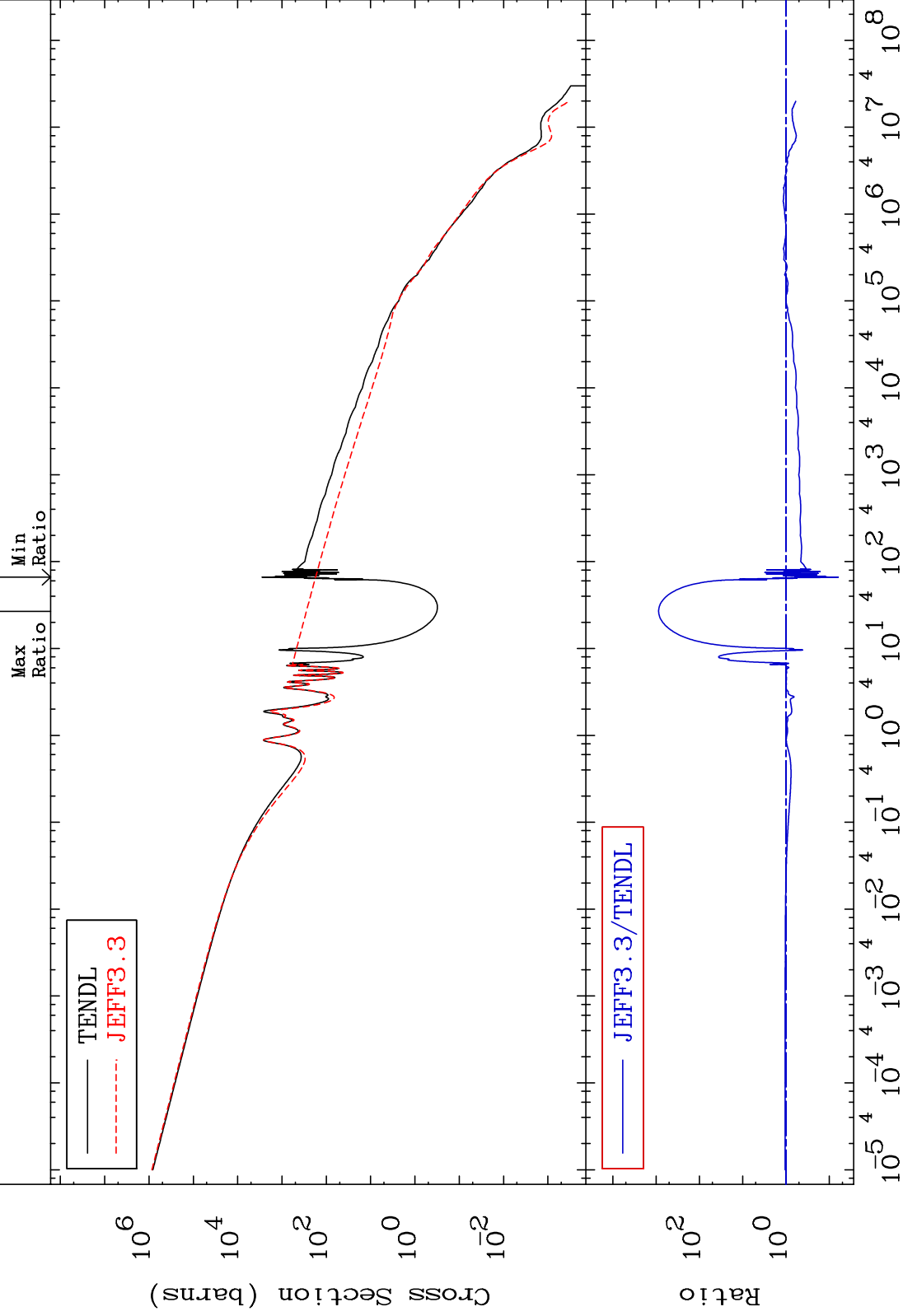
MAT 6328

(n, γ)

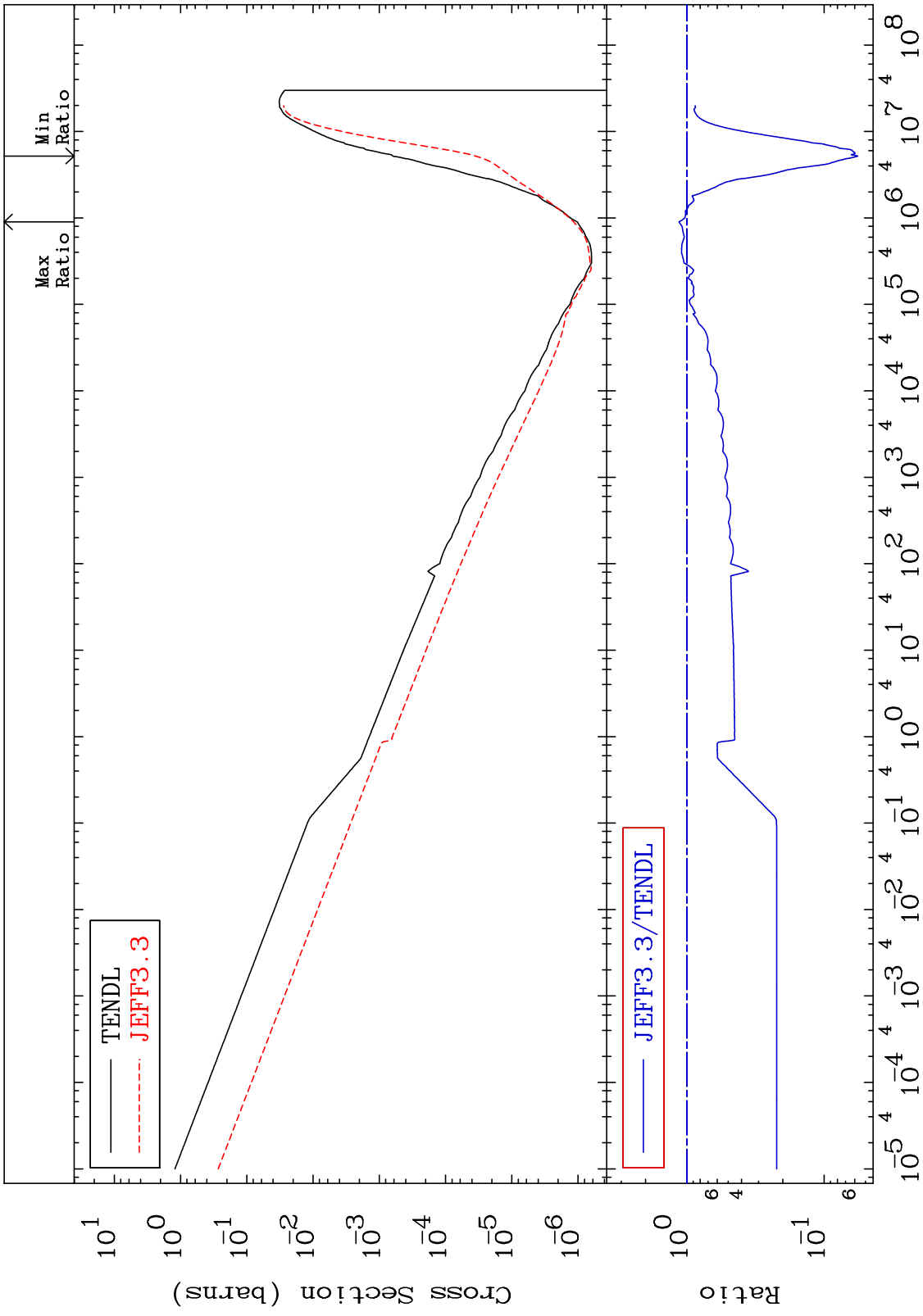
63-Eu-152

-93.81 To 9999. %

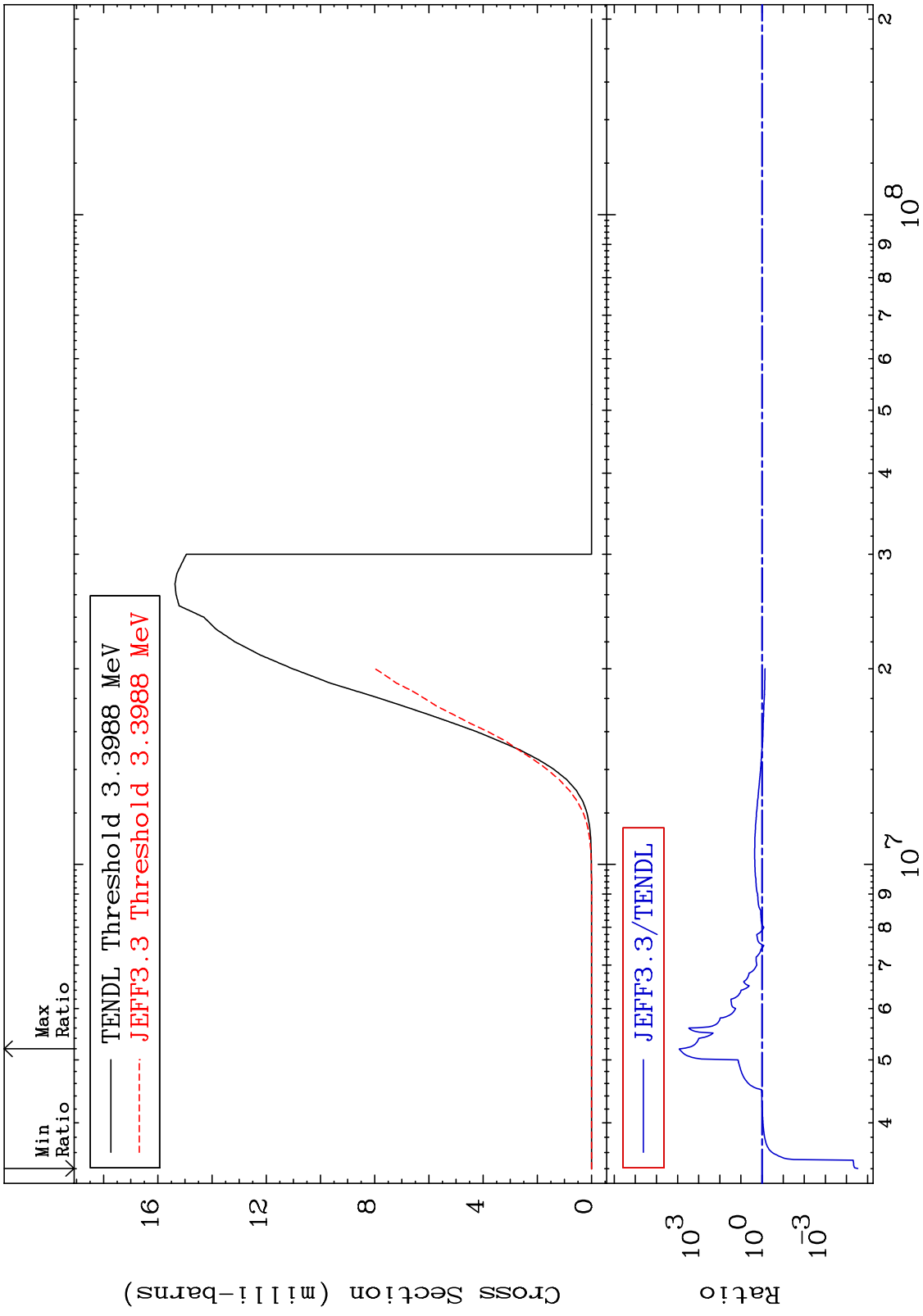
Cross Section



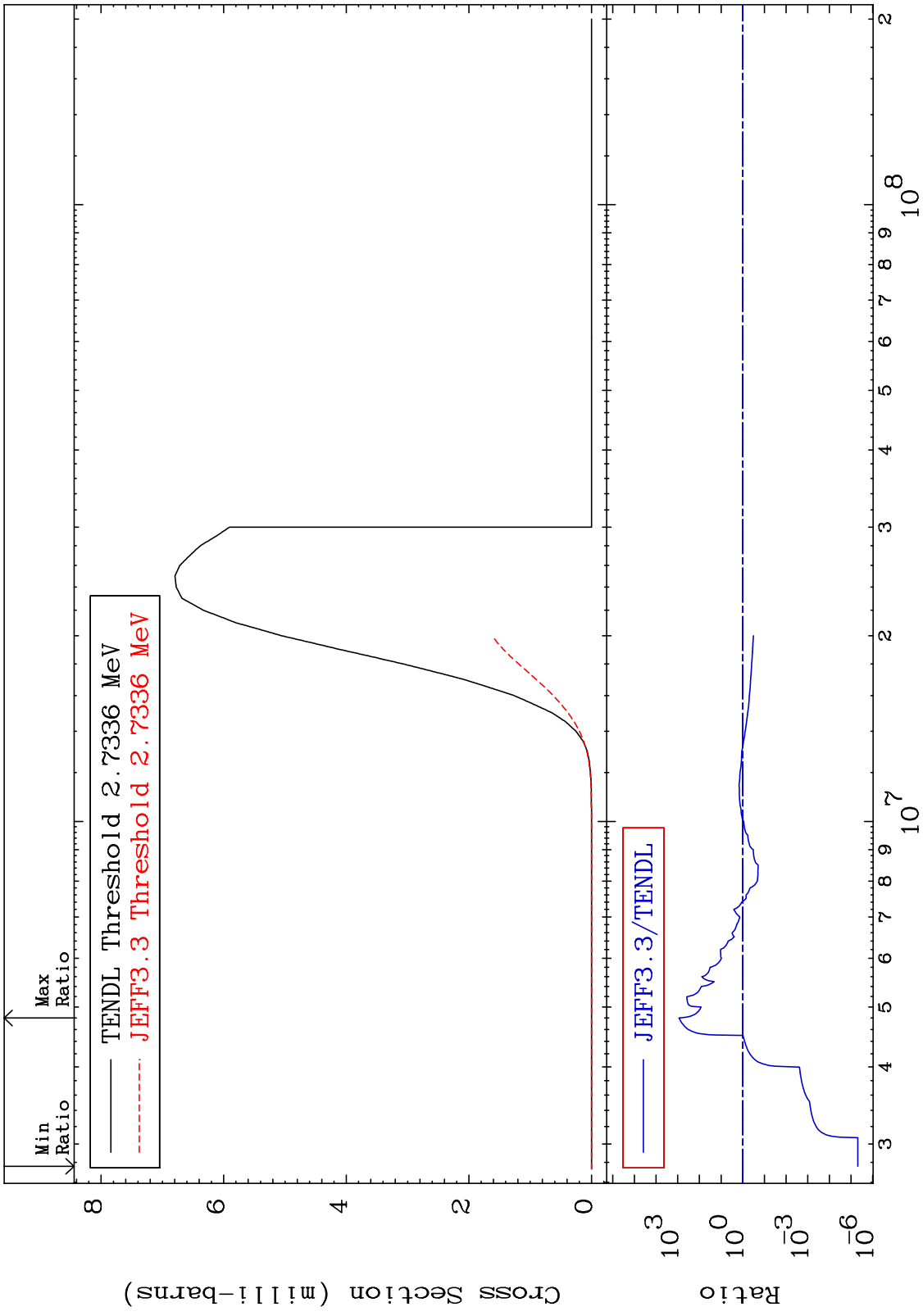
MAT 6328 (n,p) Cross Section 63-Eu-152 -94.31 To 13.89 %



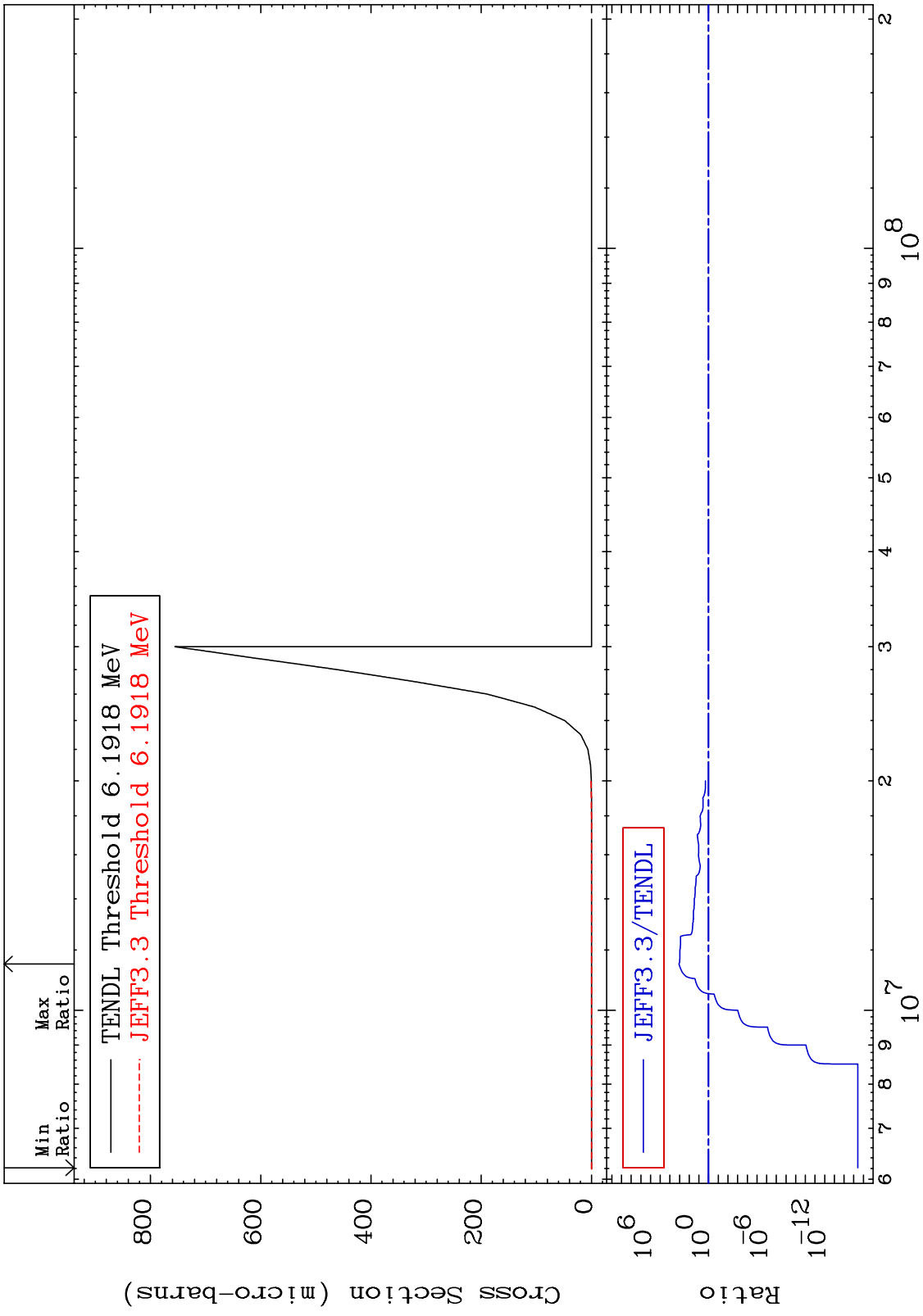
MAT 6328 (n,d) 63-Eu-152
 Cross Section -100.0 To 9999. %



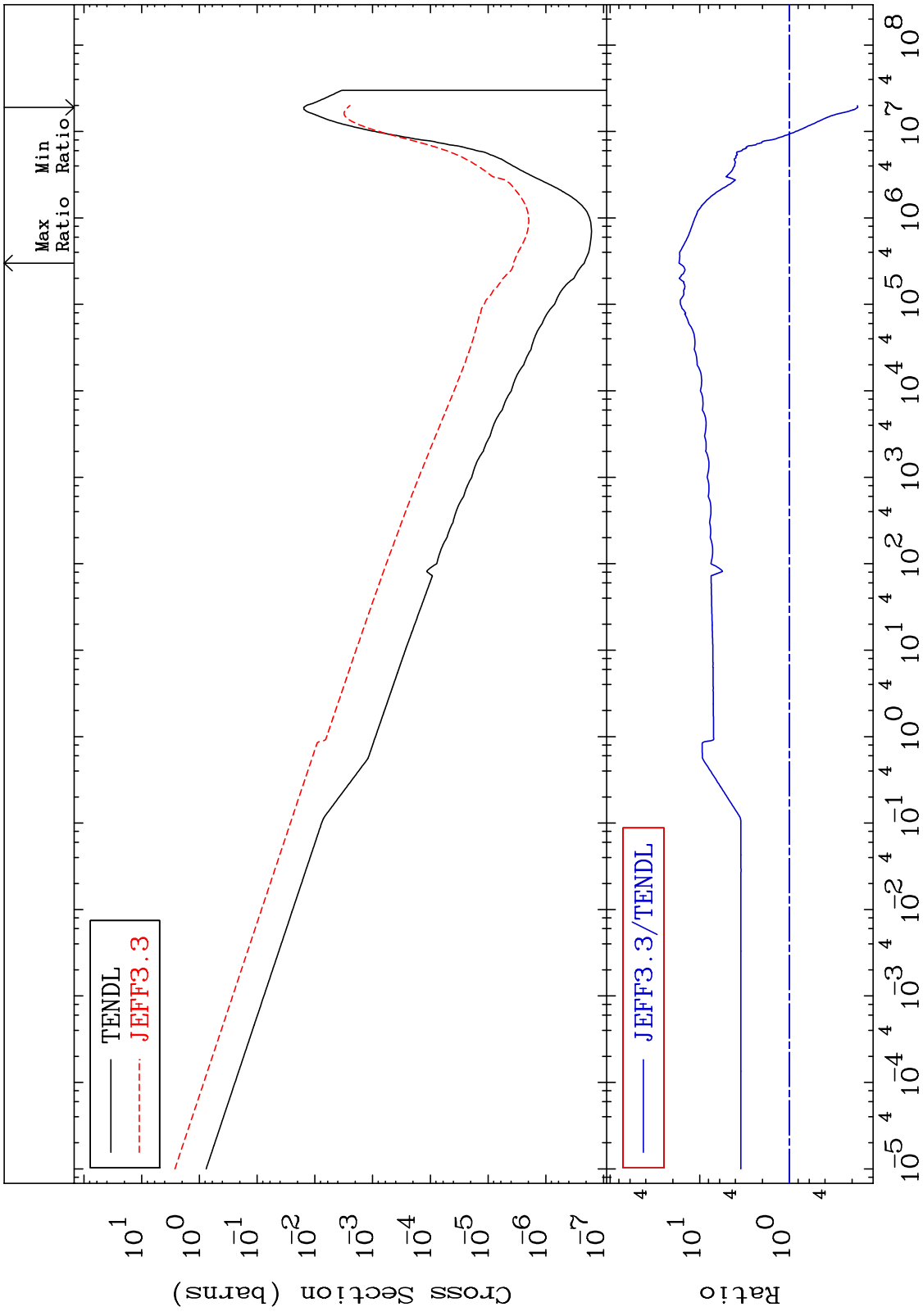
MAT 6328 (n,t) 63-Eu-152
 Cross Section -100.0 To 9999. %



MAT 6328 (n, He-3) 63-Eu-152
 Cross Section -100.0 To 9999. %



MAT 6328 (n, α) Cross Section $^{63}\text{Eu-152}$
 -82.74 To 1603. %

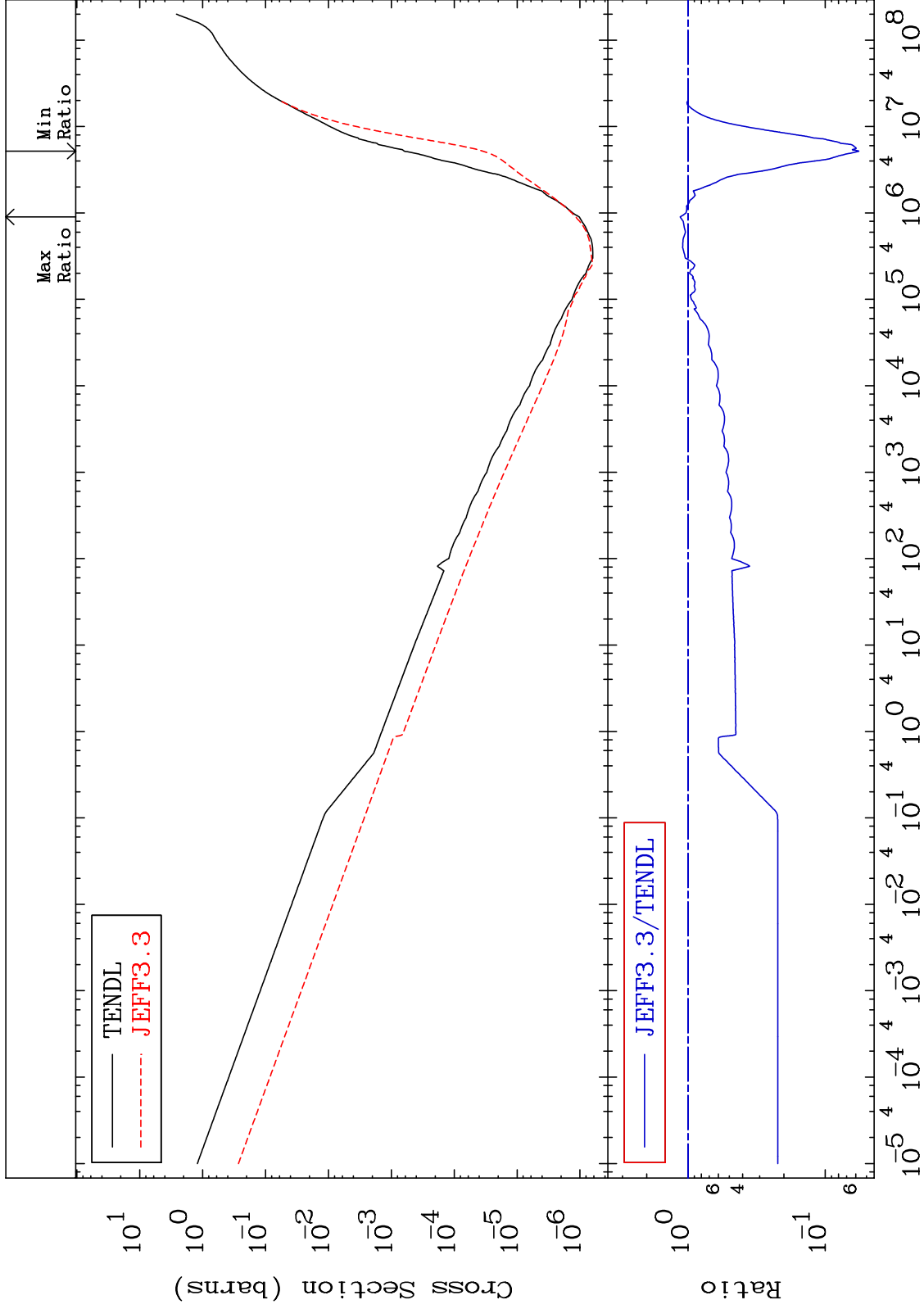


48 $^{63}\text{Eu-152}$

MAT 6328

Hydrogen Production
Cross Section

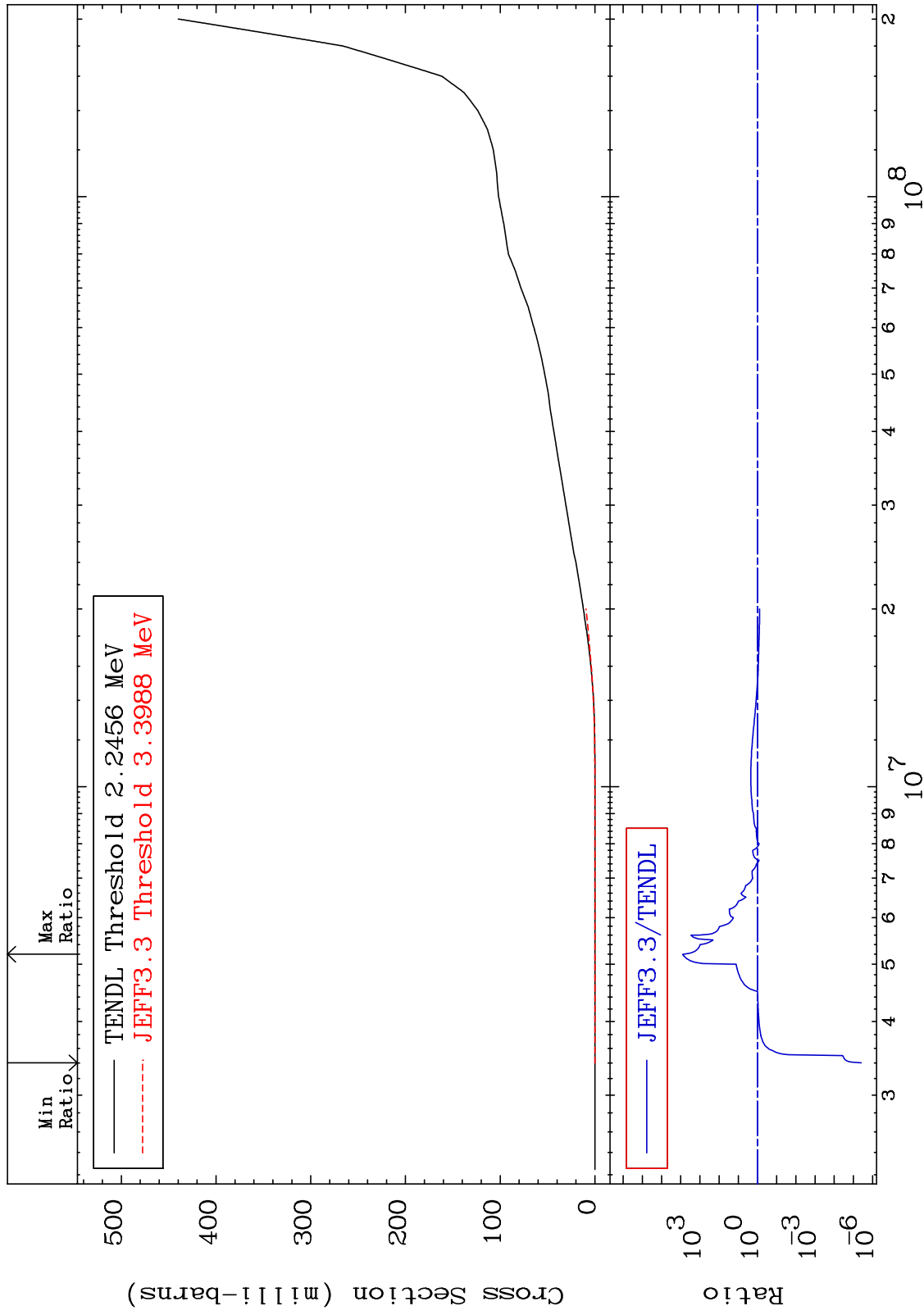
63-Eu-152
-94.31 To 13.89 %



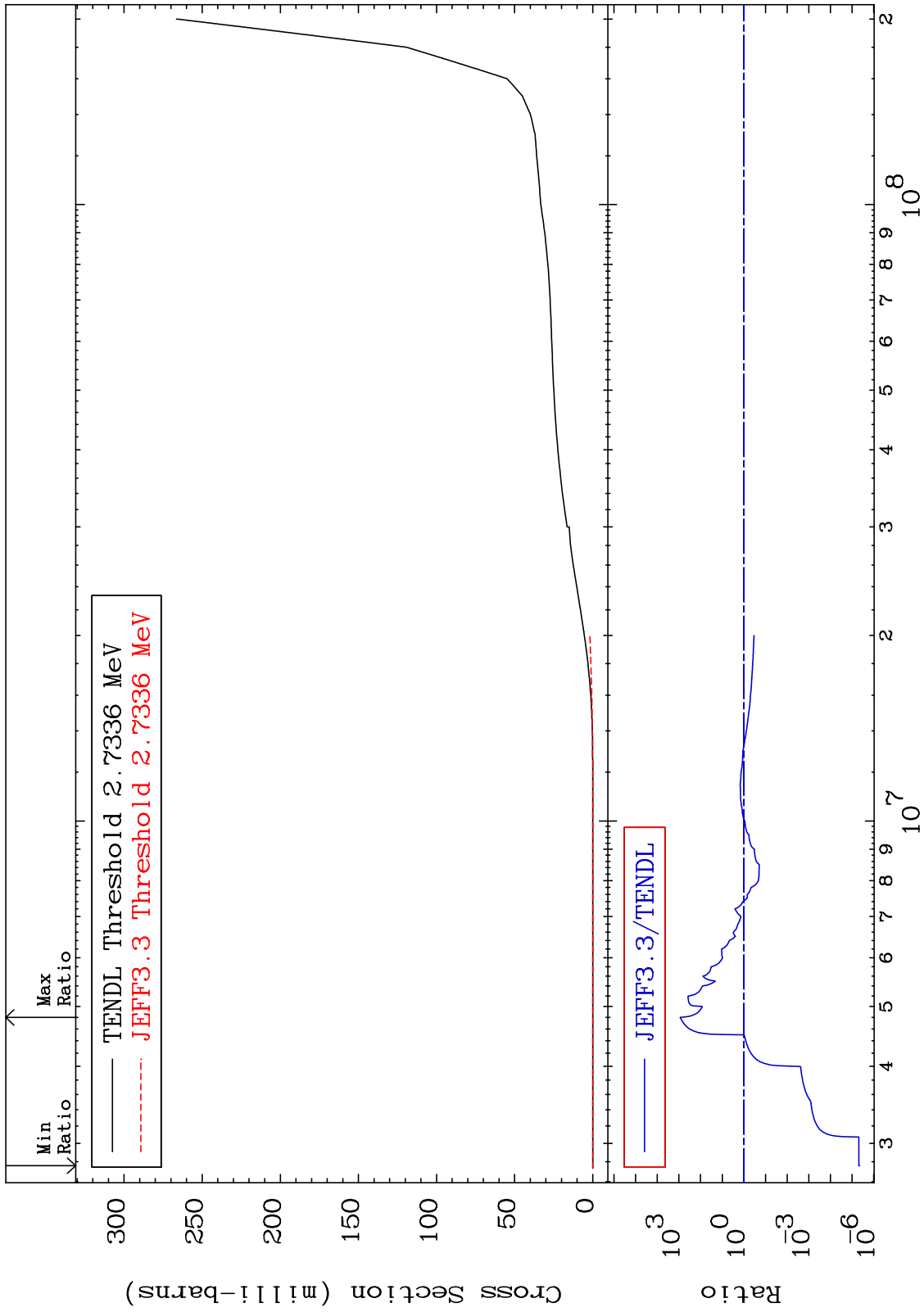
MAT 6328

Deuterium Production
Cross Section

63-Eu-152
-100.0 To 9999. %

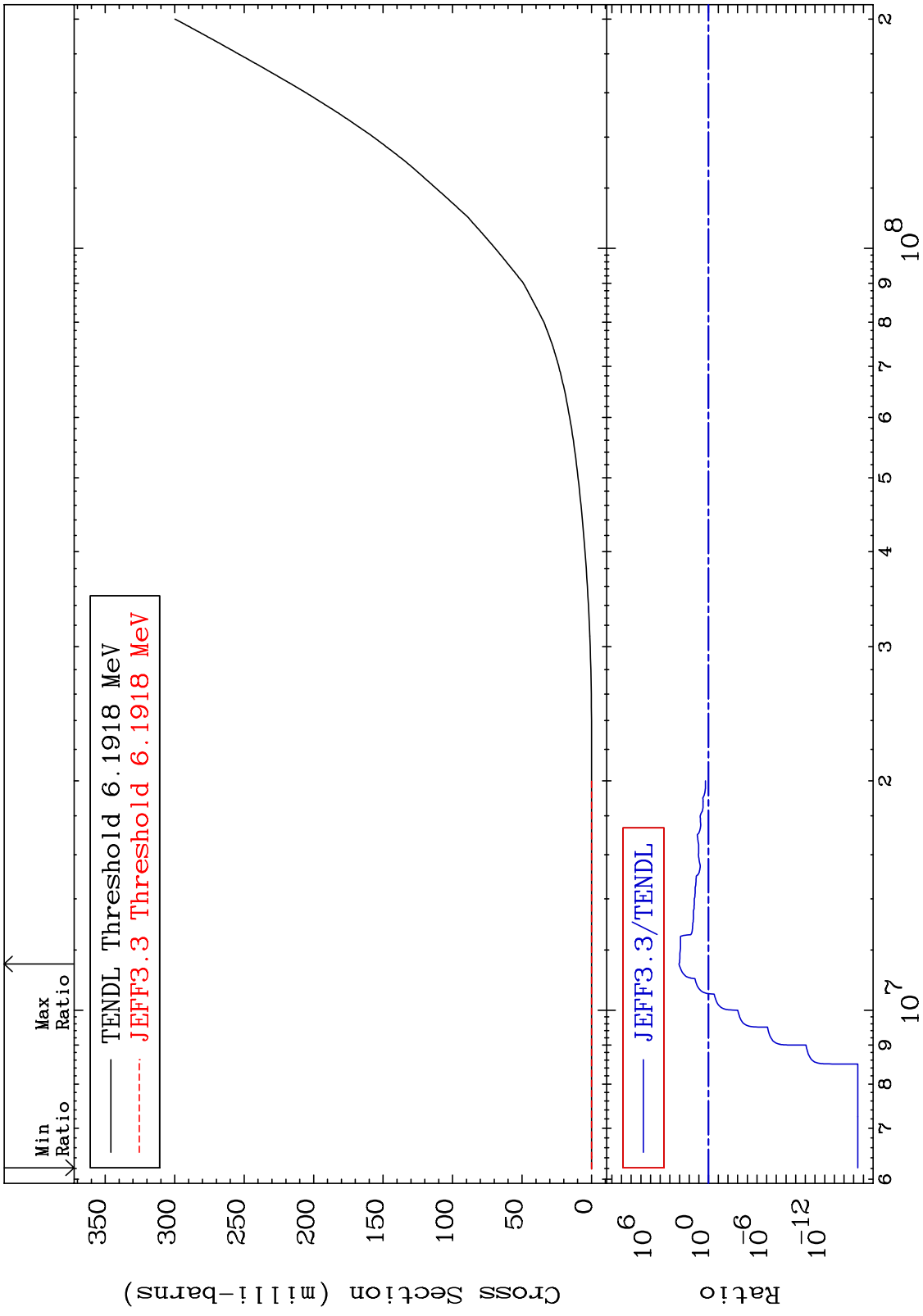


MAT 6328 Tritium Production Cross Section 63-Eu-152
 -100.0 To 9999. %



63-Eu-152

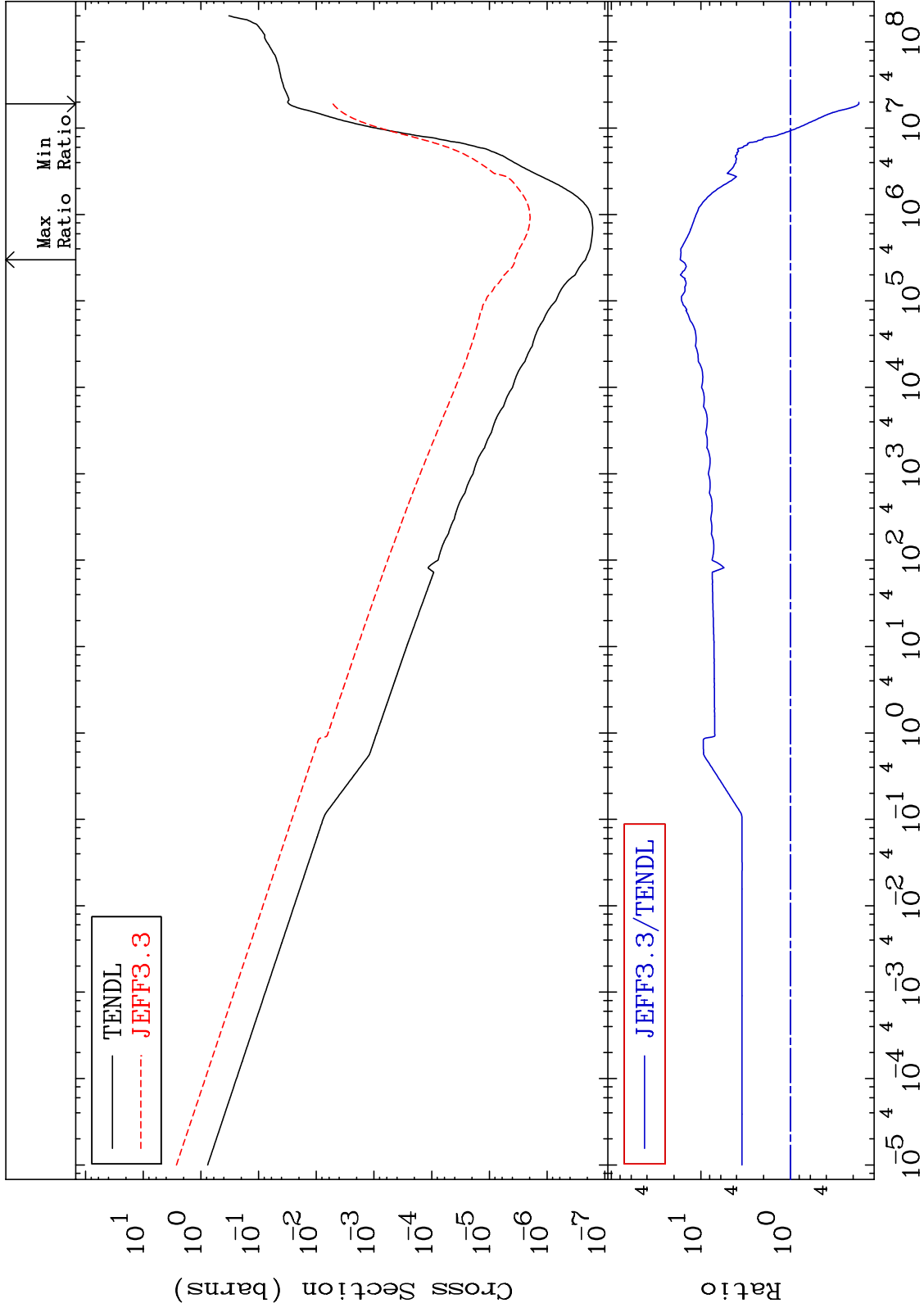
Incident Energy (eV)



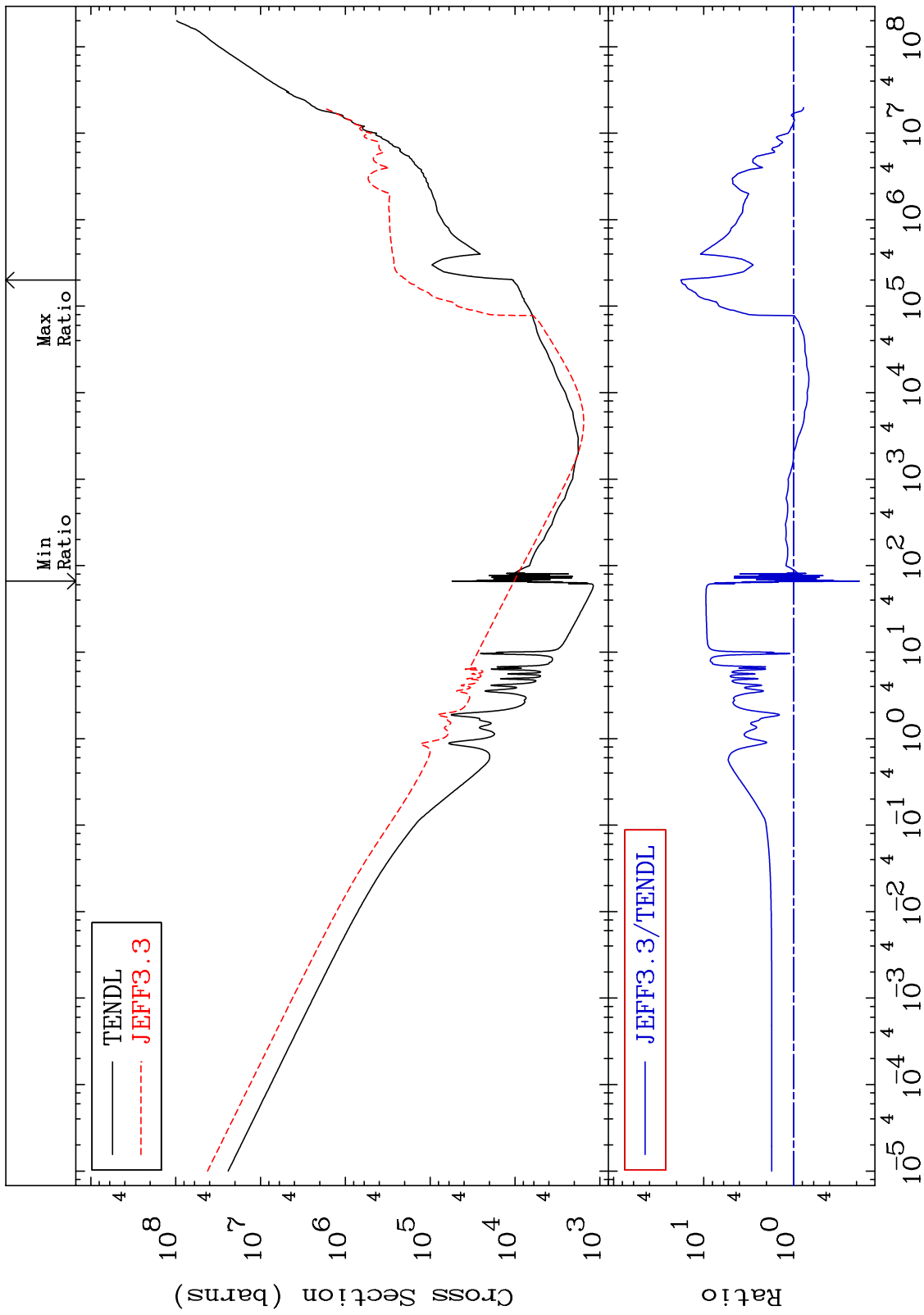
MAT 6328

He-4 Production
Cross Section

63-Eu-152
-82.72 To 1603. %



MAT 6328 Kerma total (eV-barns) 63-Eu-152
 Cross Section -81.52 To 1692. %



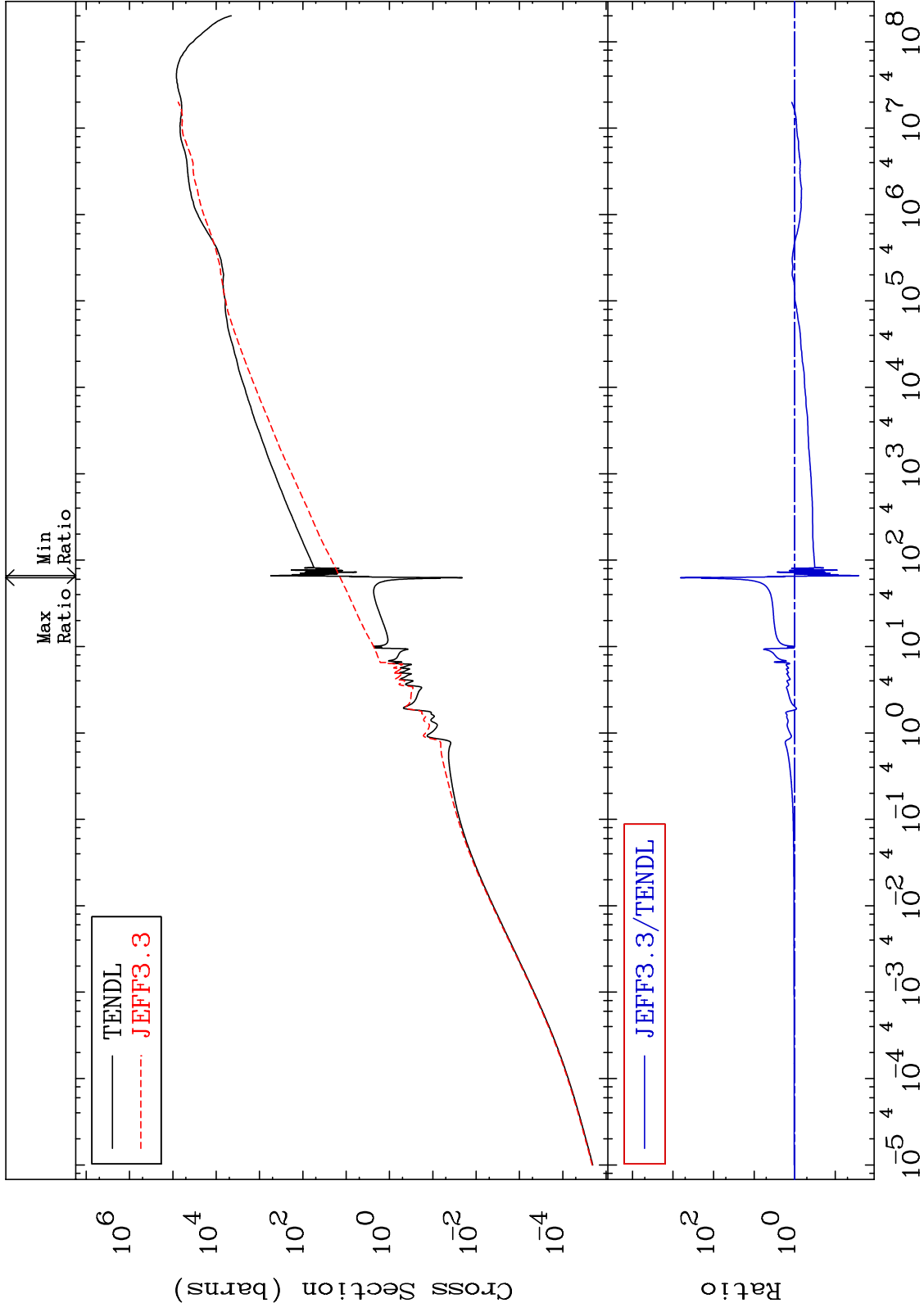
63-Eu-152

Incident Energy (eV)

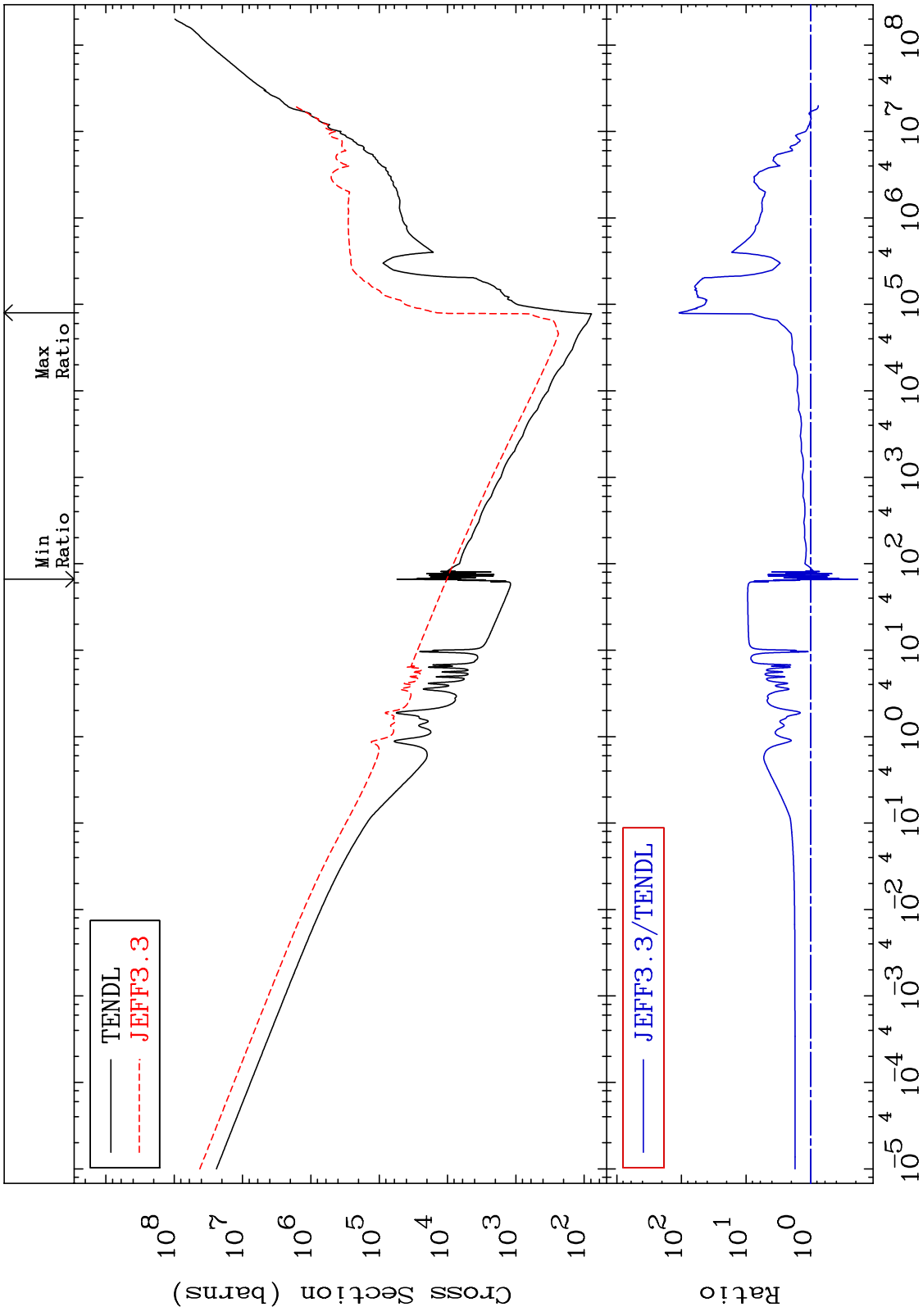
MAT 6328

Kerma elastic
Cross Section

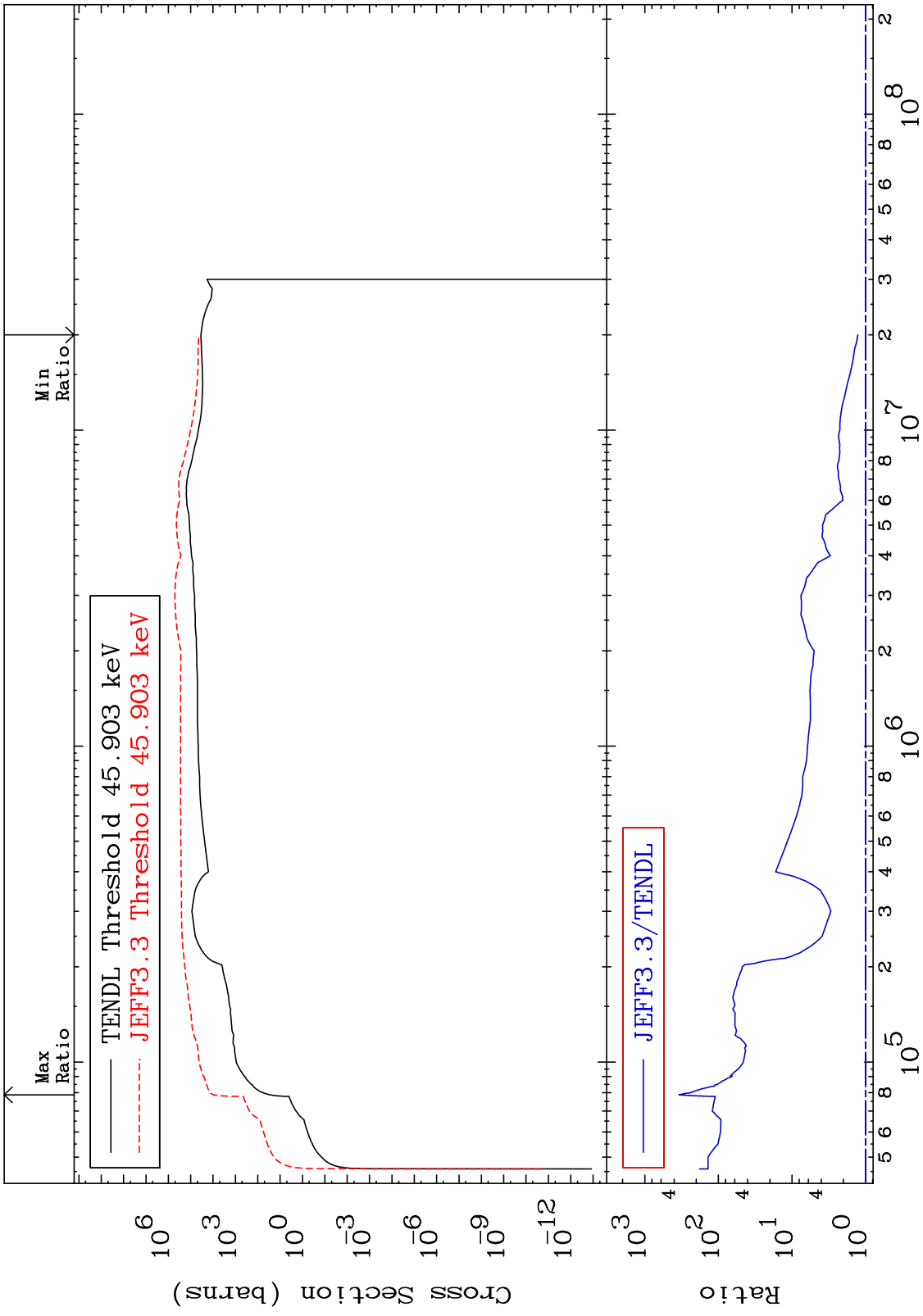
63-Eu-152
-97.39 To 9999. %



MAT 6328 Kerma non-elastic (all but mt2) 63-Eu-152
 Cross Section -81.36 To 9999. %



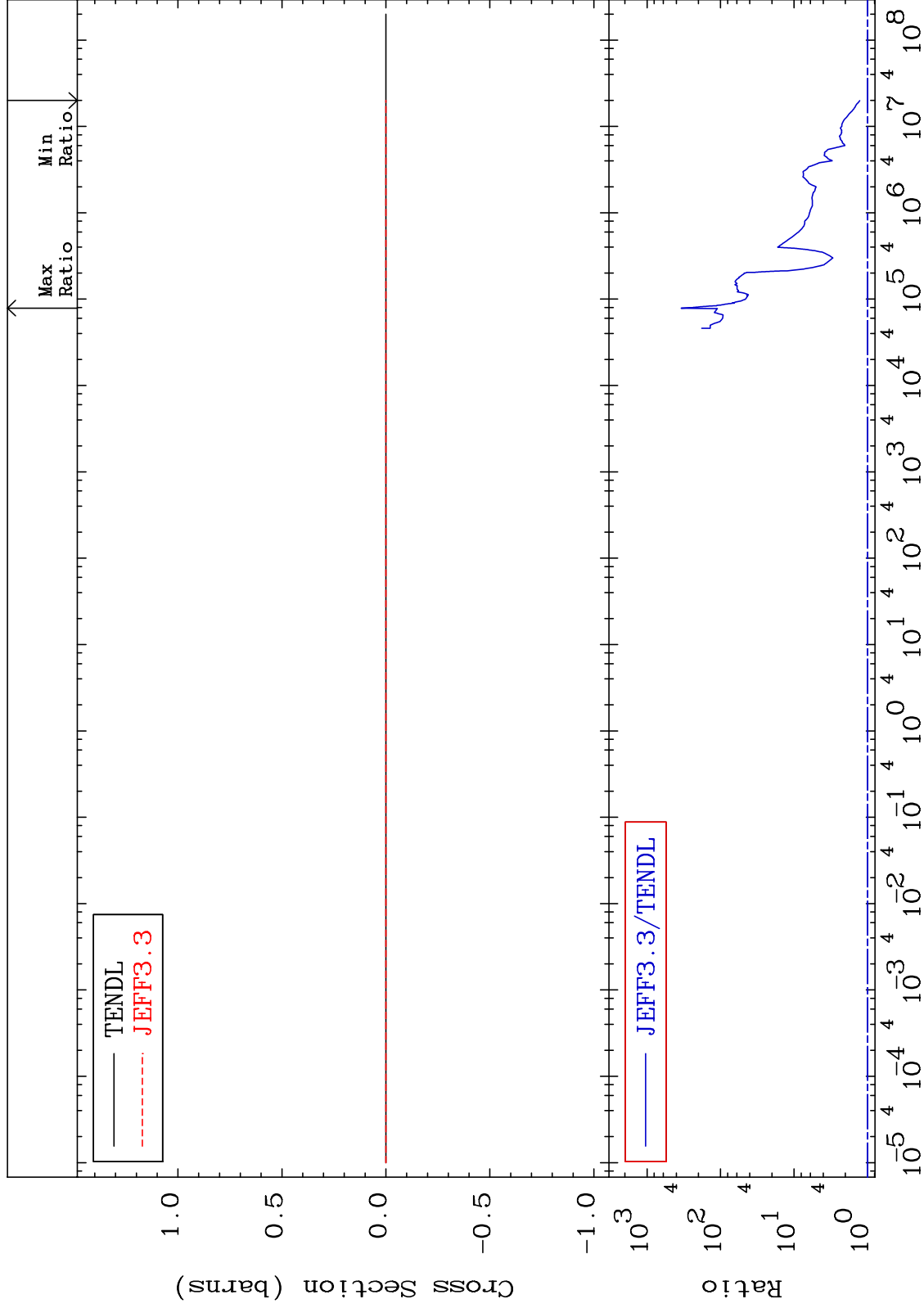
MAT 6328 Kerma inelastic (mt51-91) 63-Eu-152
 Cross Section To 9999. %



MAT 6328

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

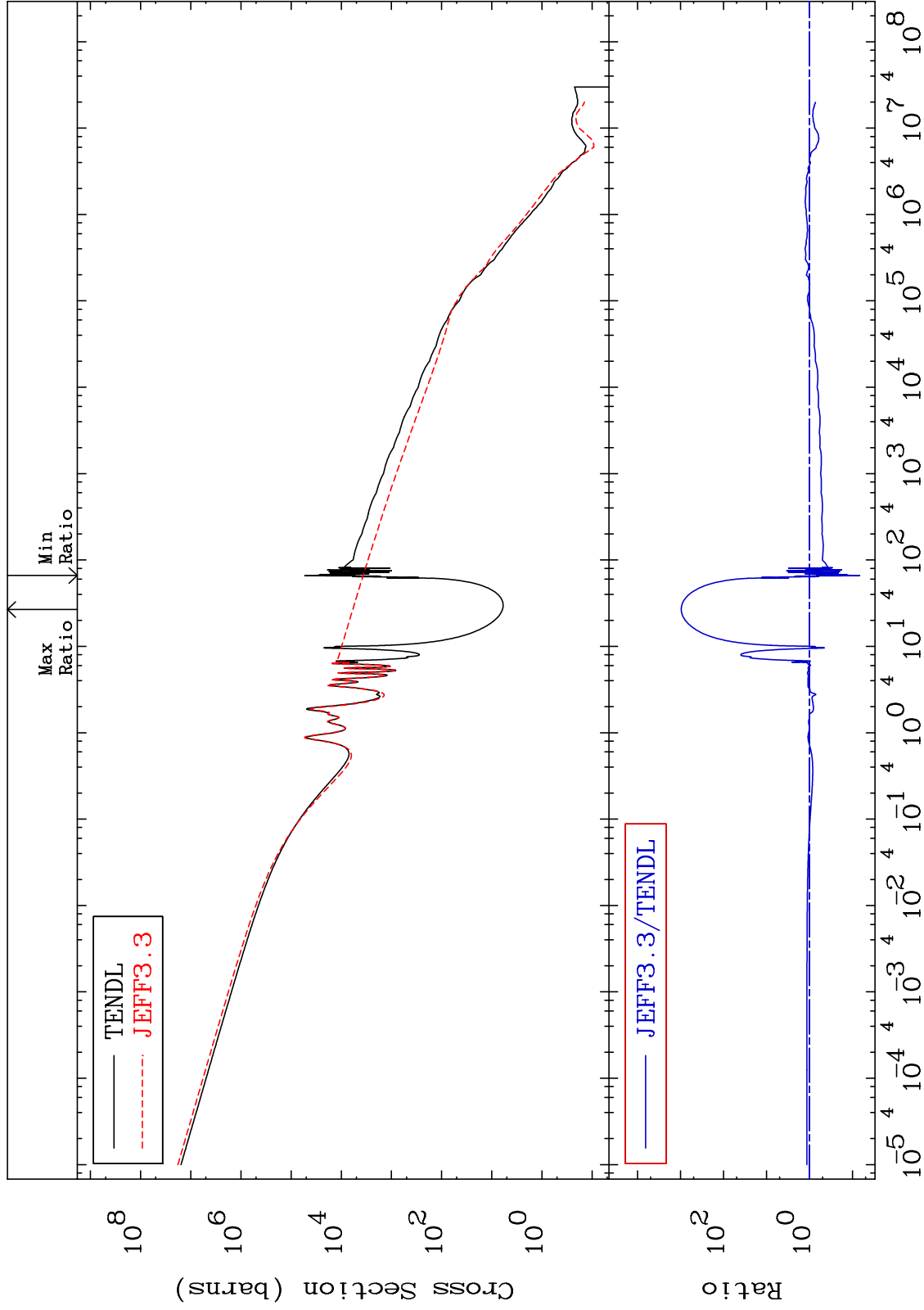
63-Eu-152
27.46 To 9999. %



MAT 6328

Kerma capture (mt102)
Cross Section

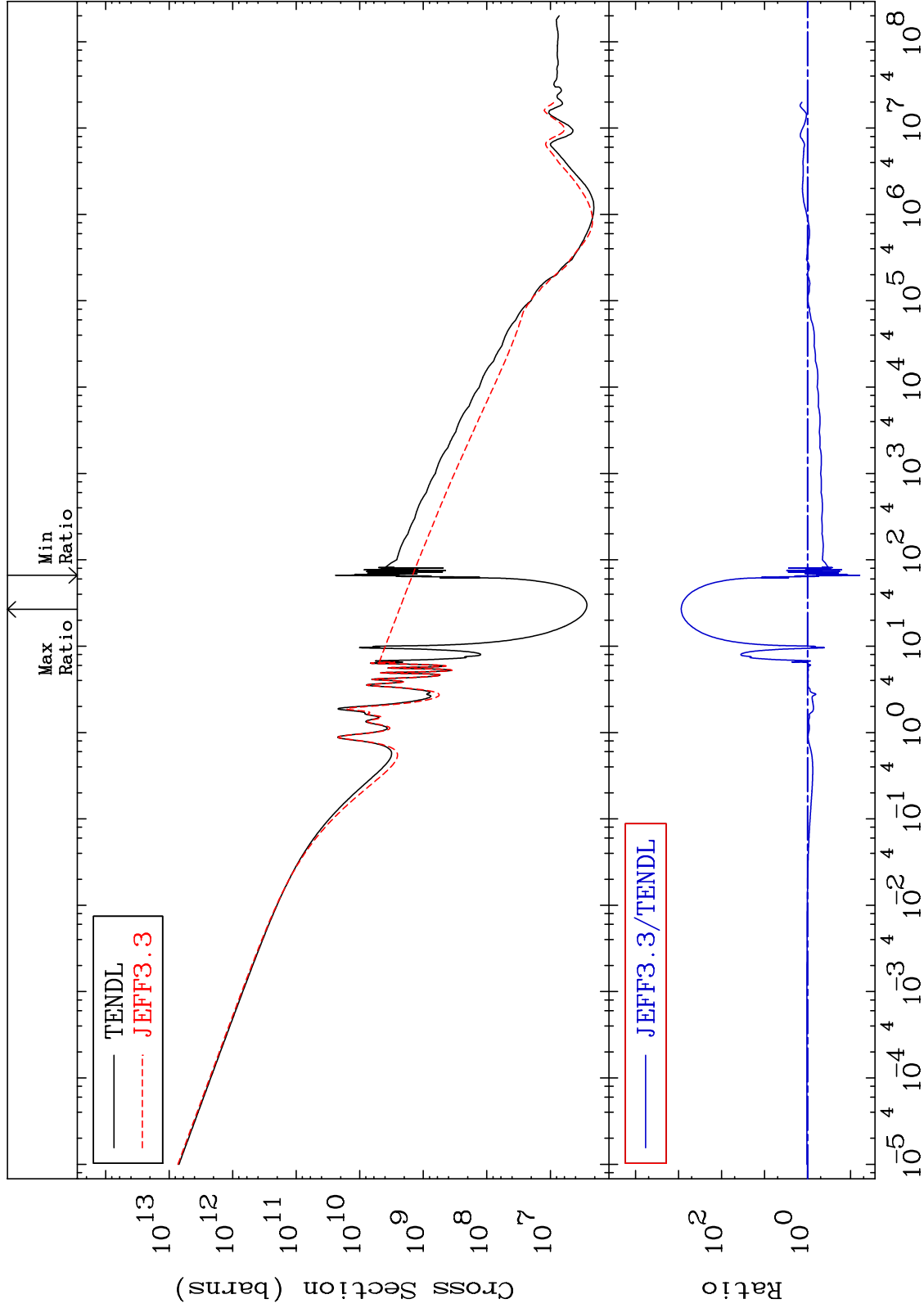
63-Eu-152
-93.19 To 9999. %



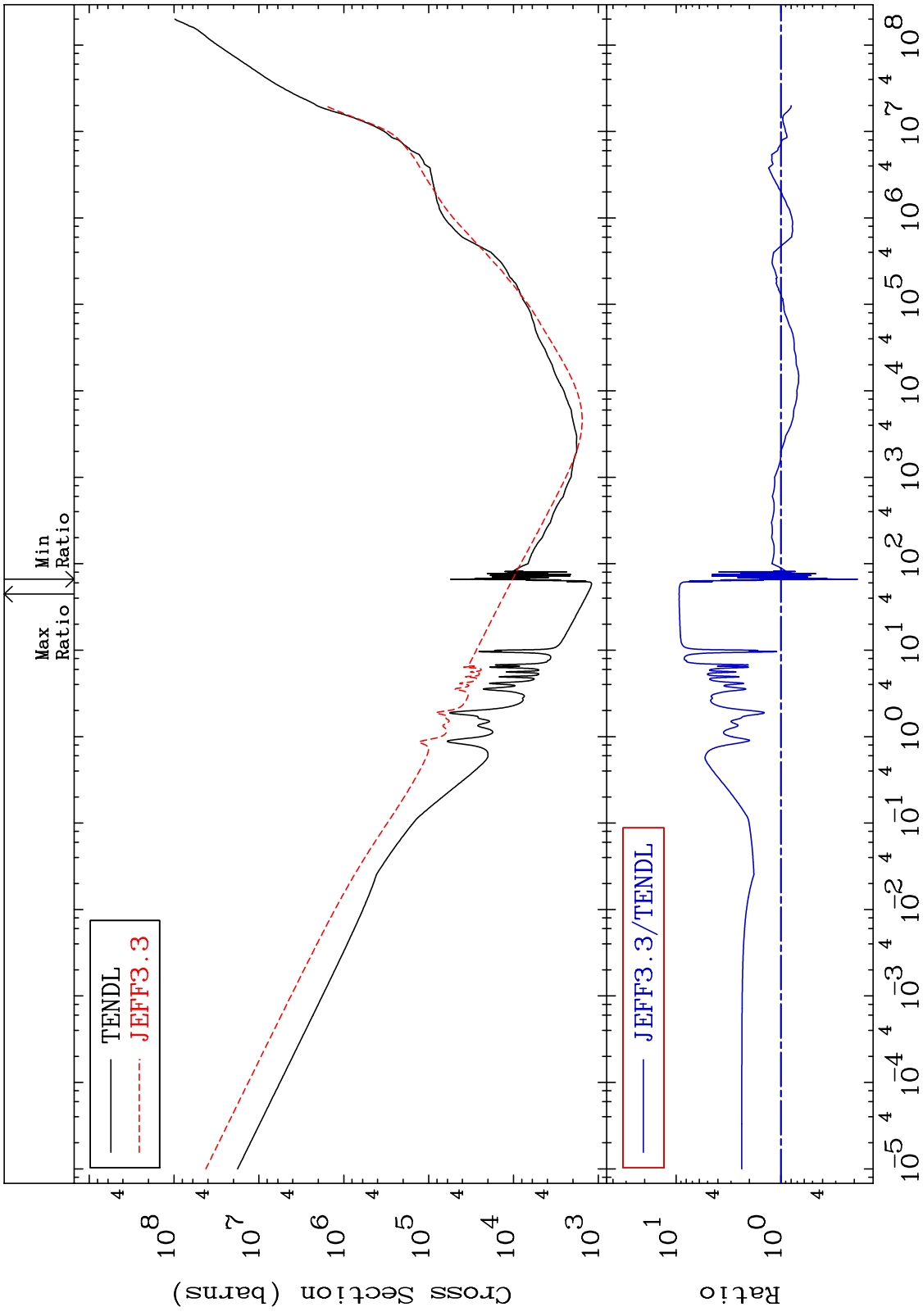
MAT 6328

Total photon (eV-barns)
Cross Section

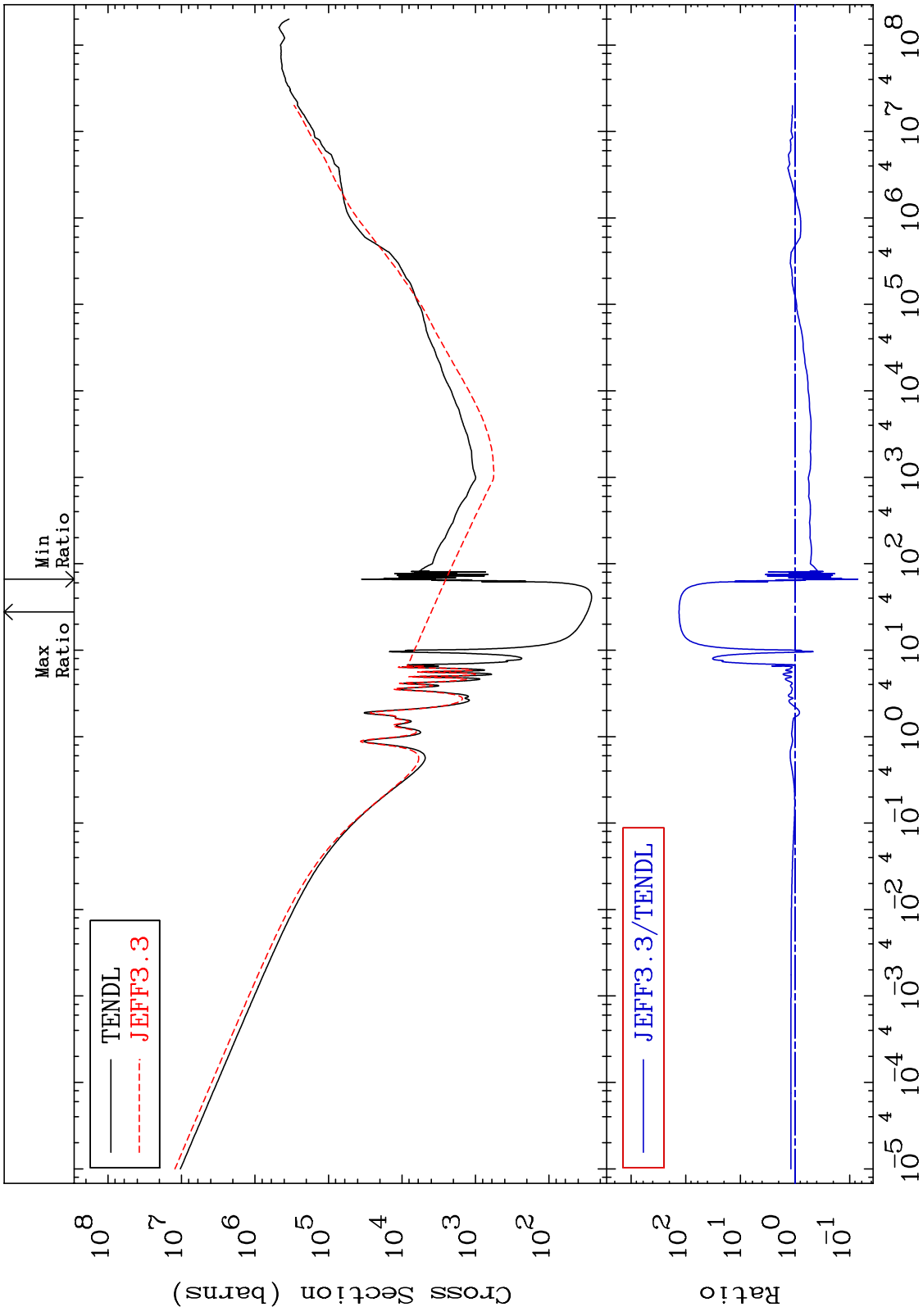
63-Eu-152
-93.87 To 9999. %



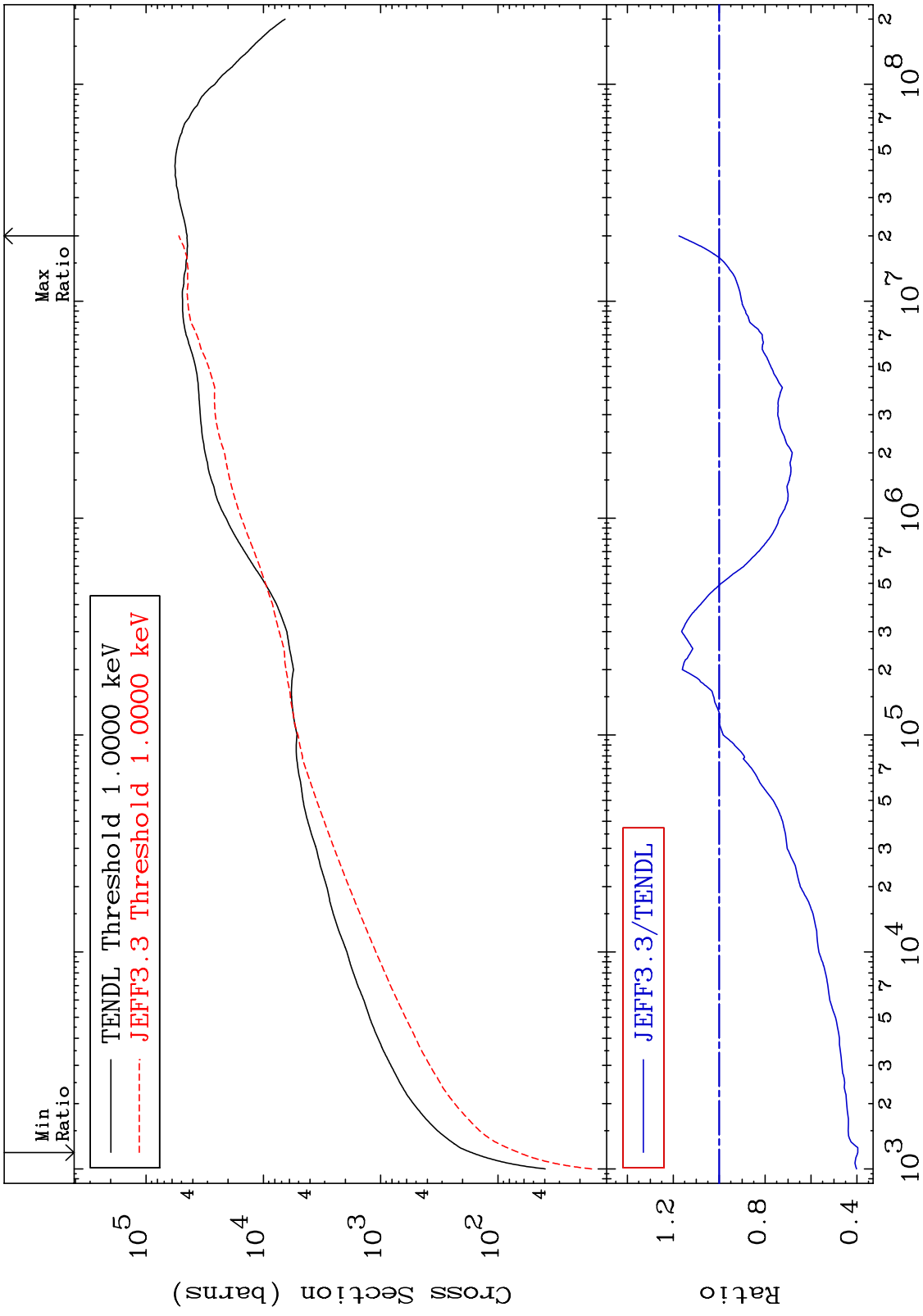
MAT 6328 Total kinematic kerma (high limit) 63-Eu-152
 -81.53 To 837.7 %
 Cross Section



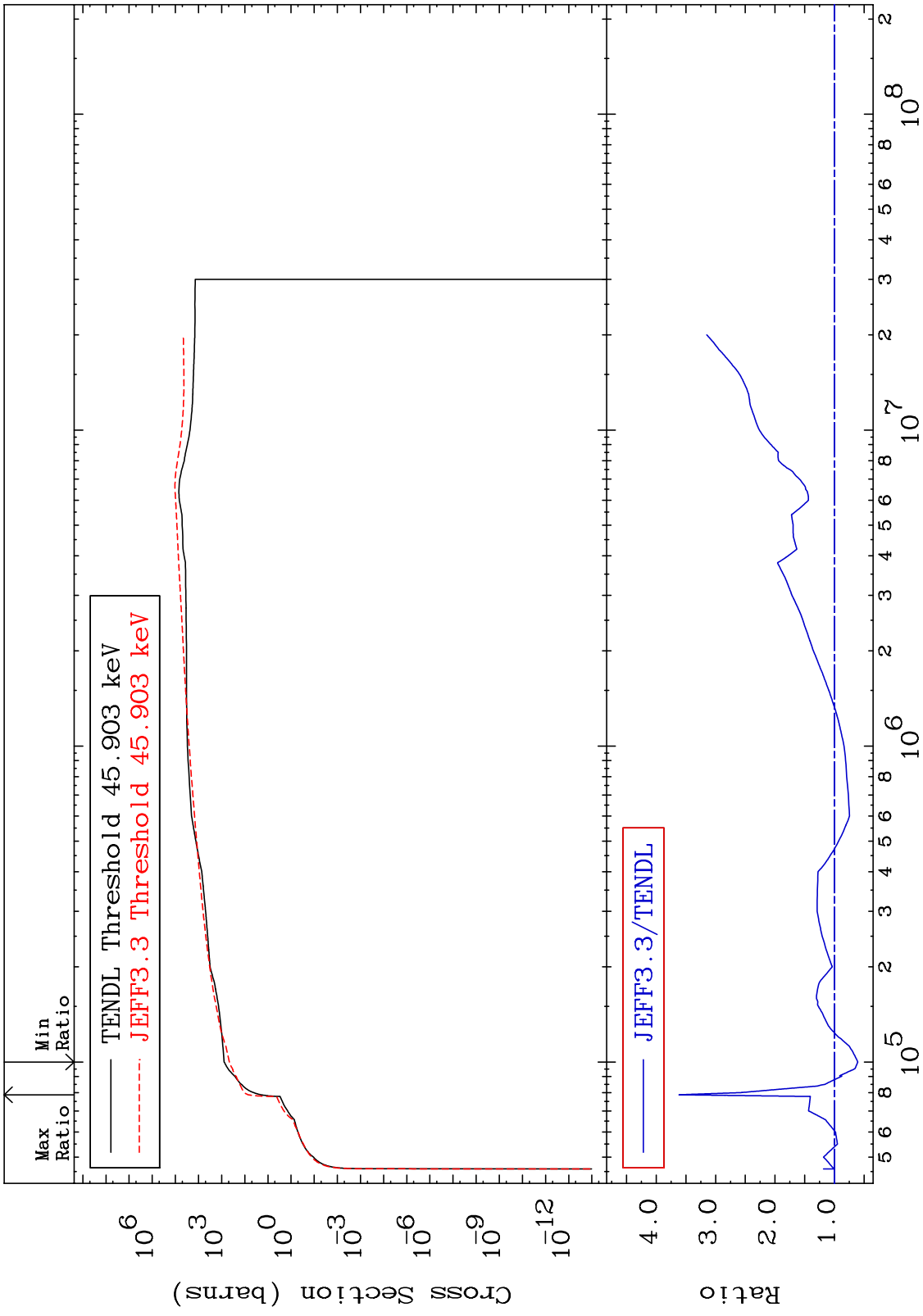
MAT 6328 Dpa total (eV-barns) 63-Eu-152
 Cross Section -92.90 To 9999. %



MAT 6328 Dpa elastic (mt2) Cross Section 63-Eu-152
-60.37 To 17.49 %



63 Incident Energy (eV) 63-Eu-152



MAT 6328 Dpa disappearance (mt102 -120) 63-Eu-152
 Cross Section -92.90 To 9999. %

