

Program Complot
(Version 2018-1)

by

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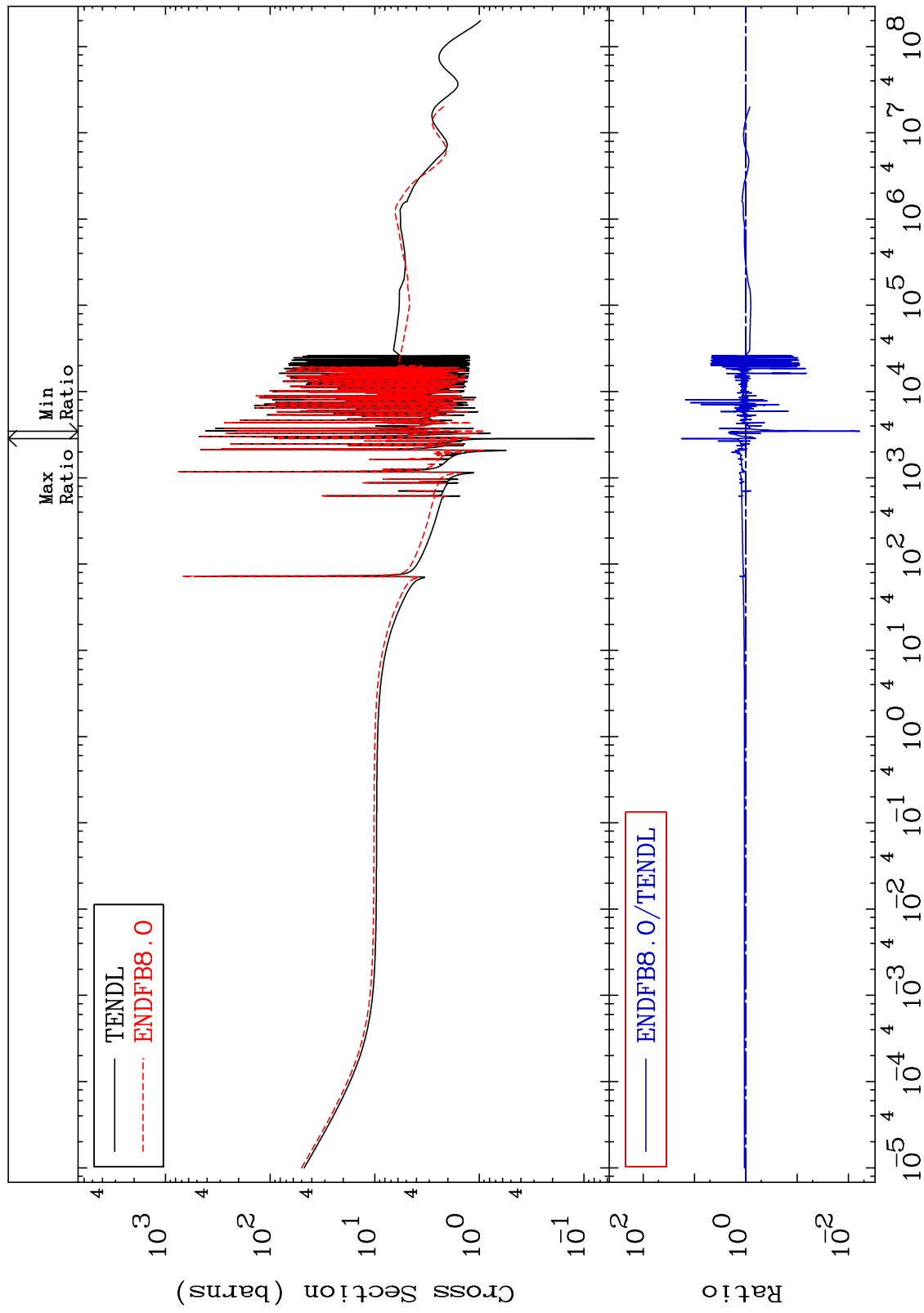
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5728

Elastic
Cross Section

57-La-139
-99.40 To 1692. %

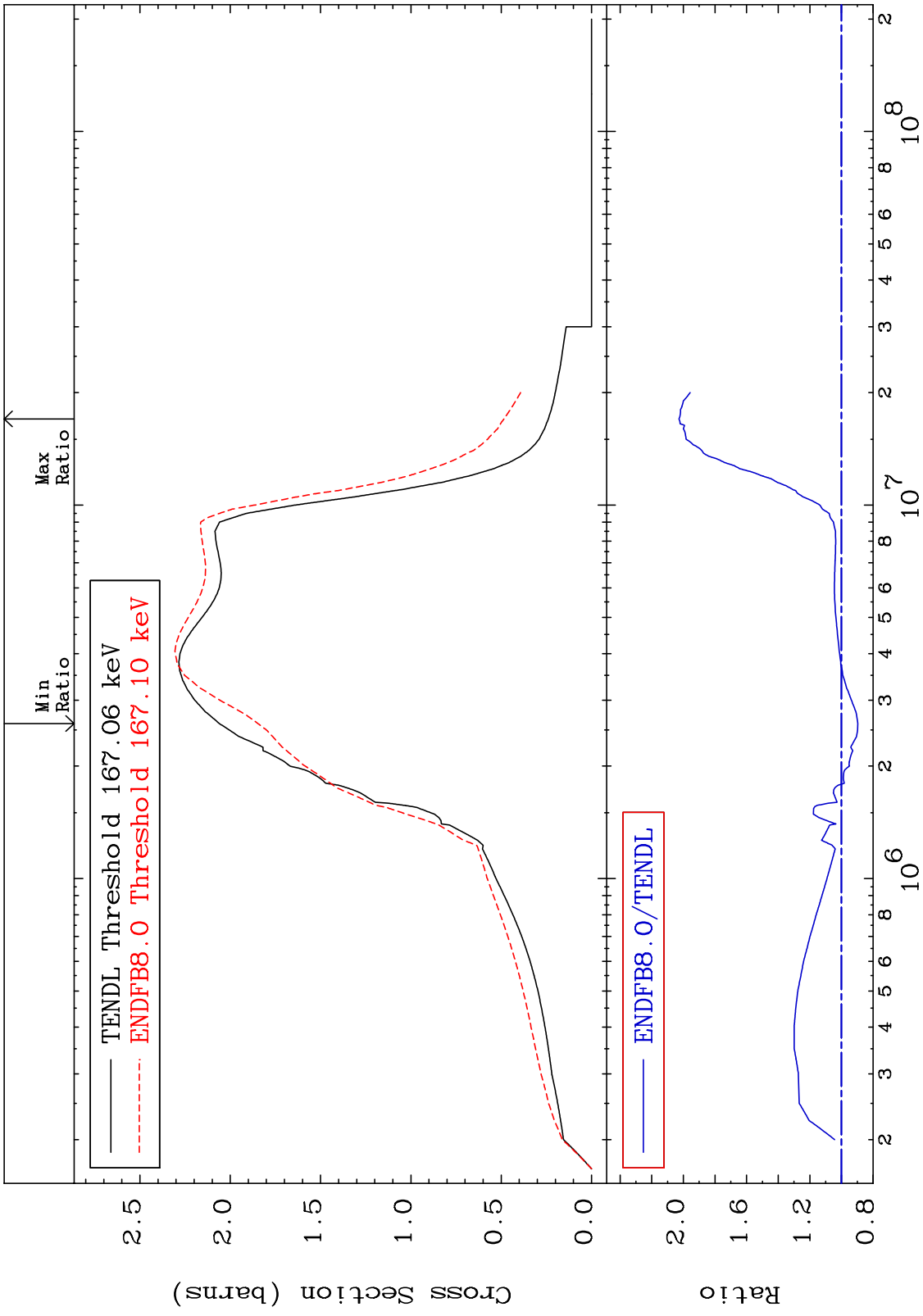


2

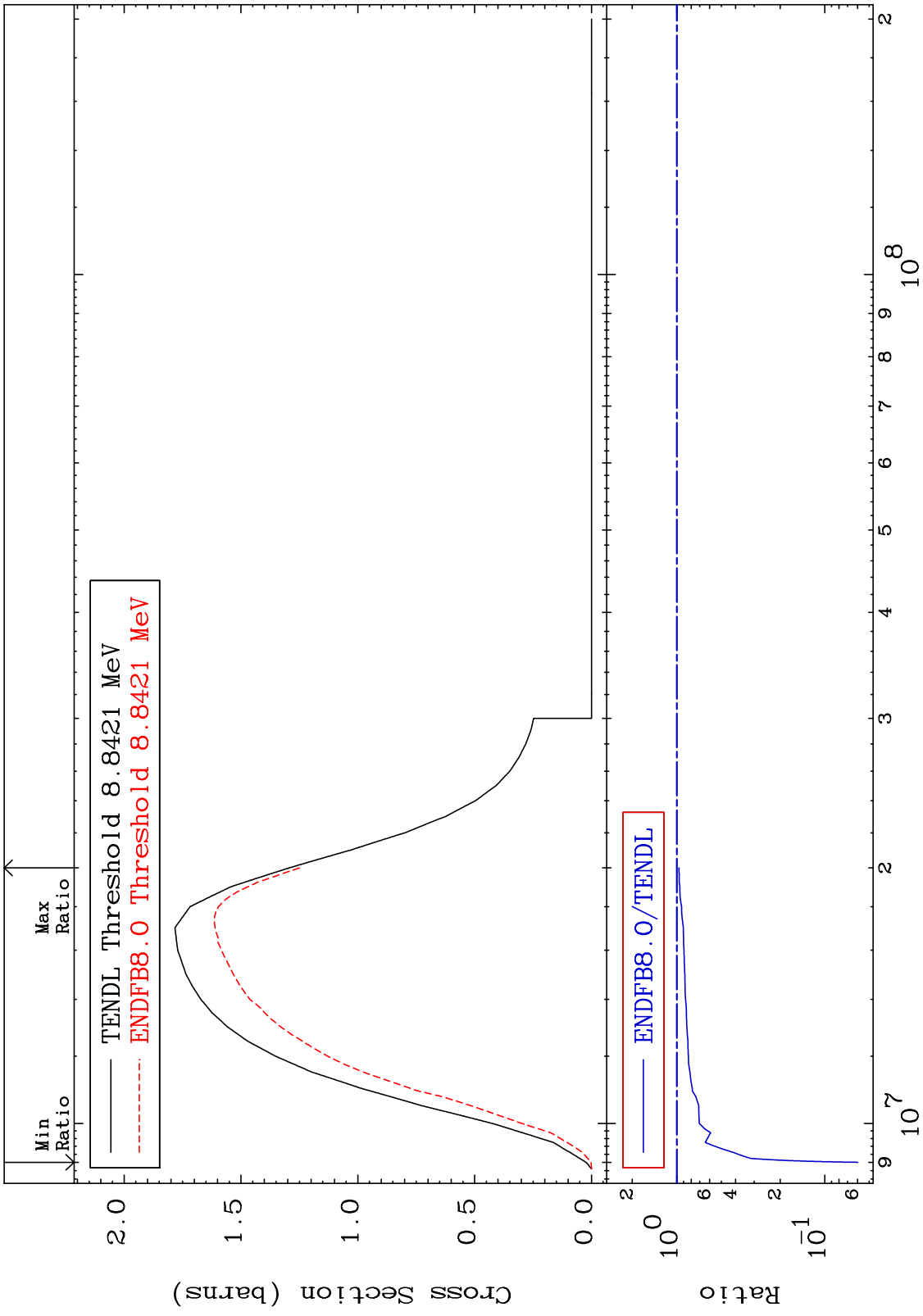
Incident Energy (eV)

57-La-139

MAT 5728 57-La-139 -10.37 To 102.7 % Inelastic Cross Section

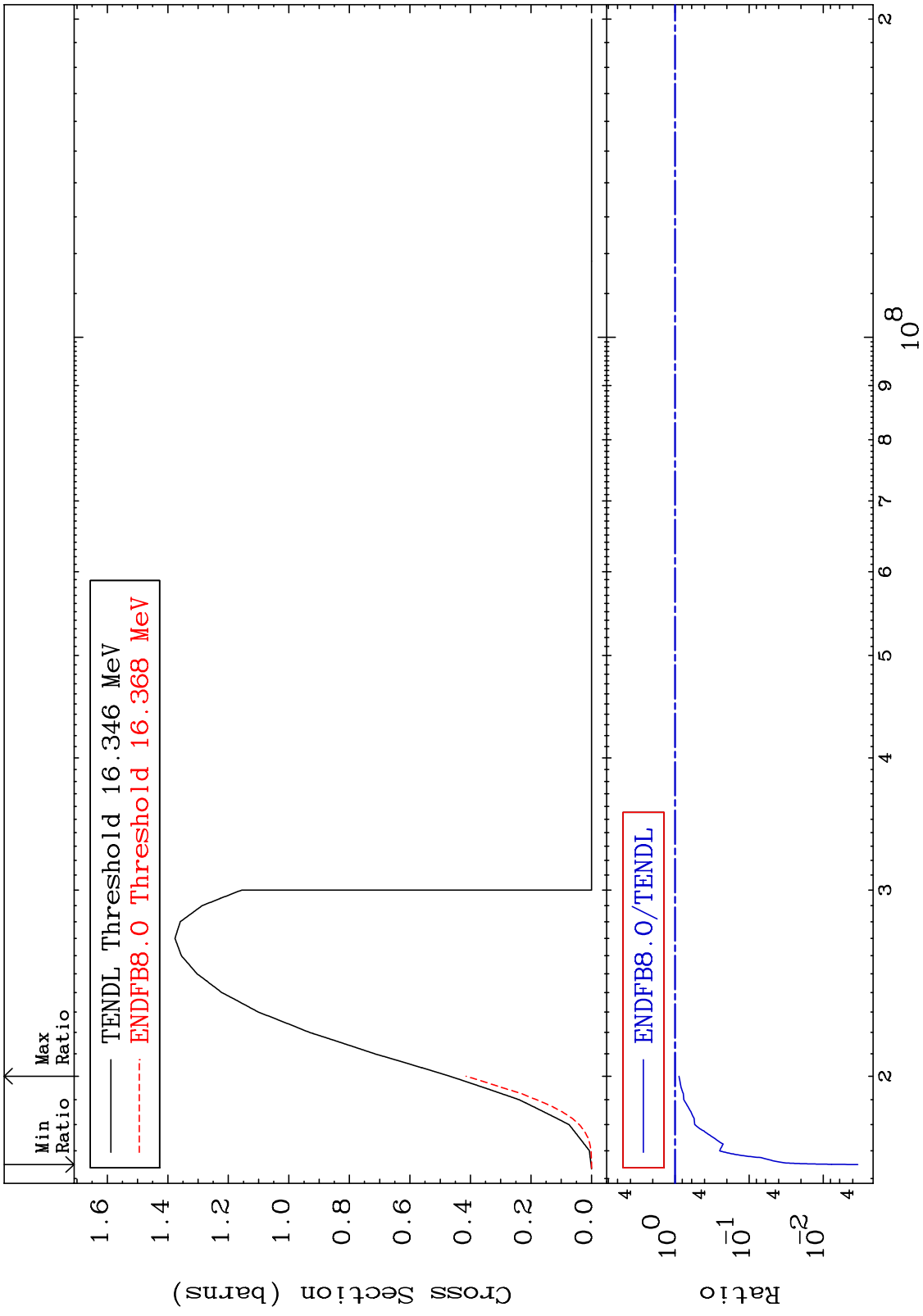


MAT 5728 (n,2n) 57-La-139
Cross Section -94.03 To -3.439%

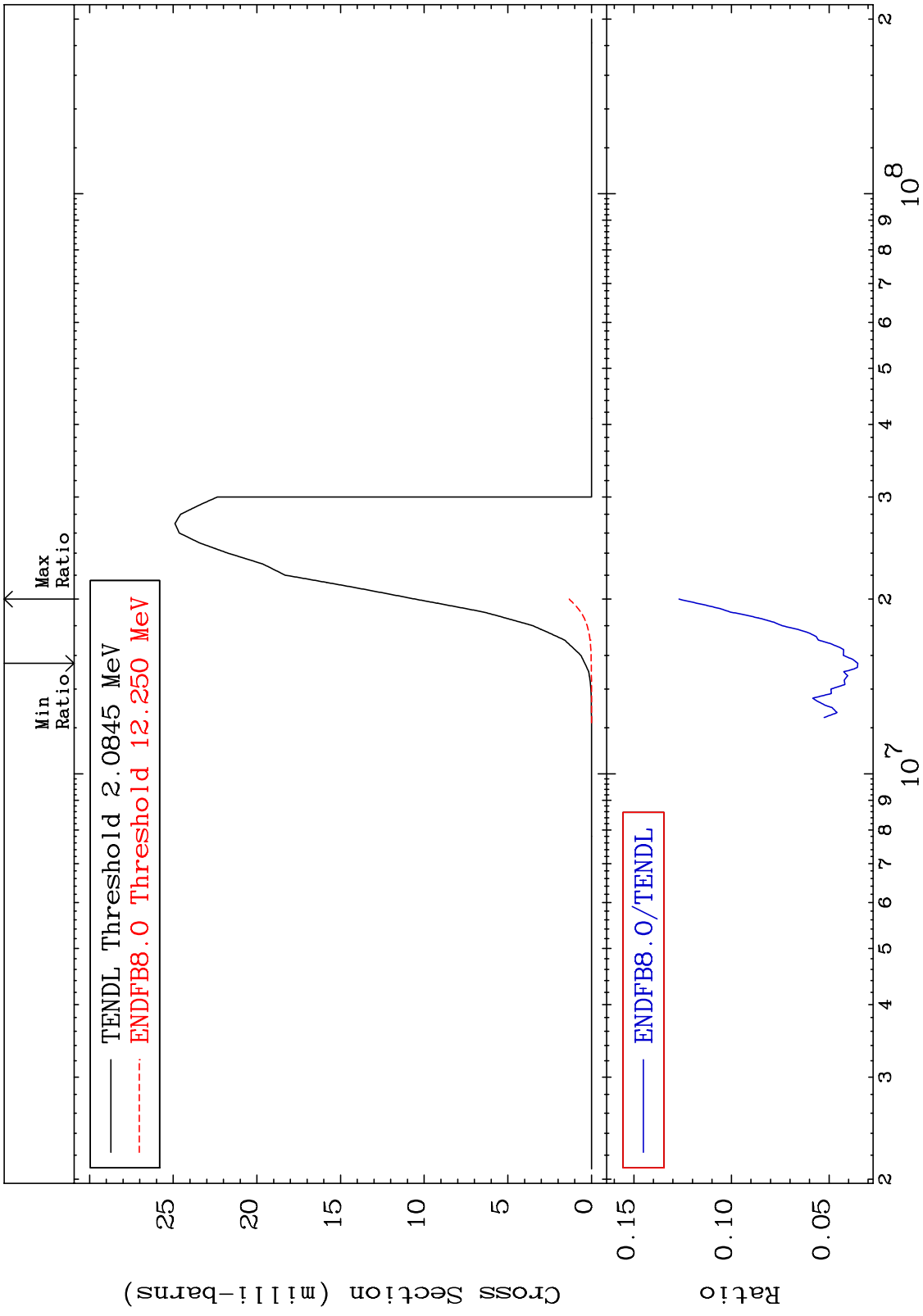


4 Incident Energy (eV) 57-La-139

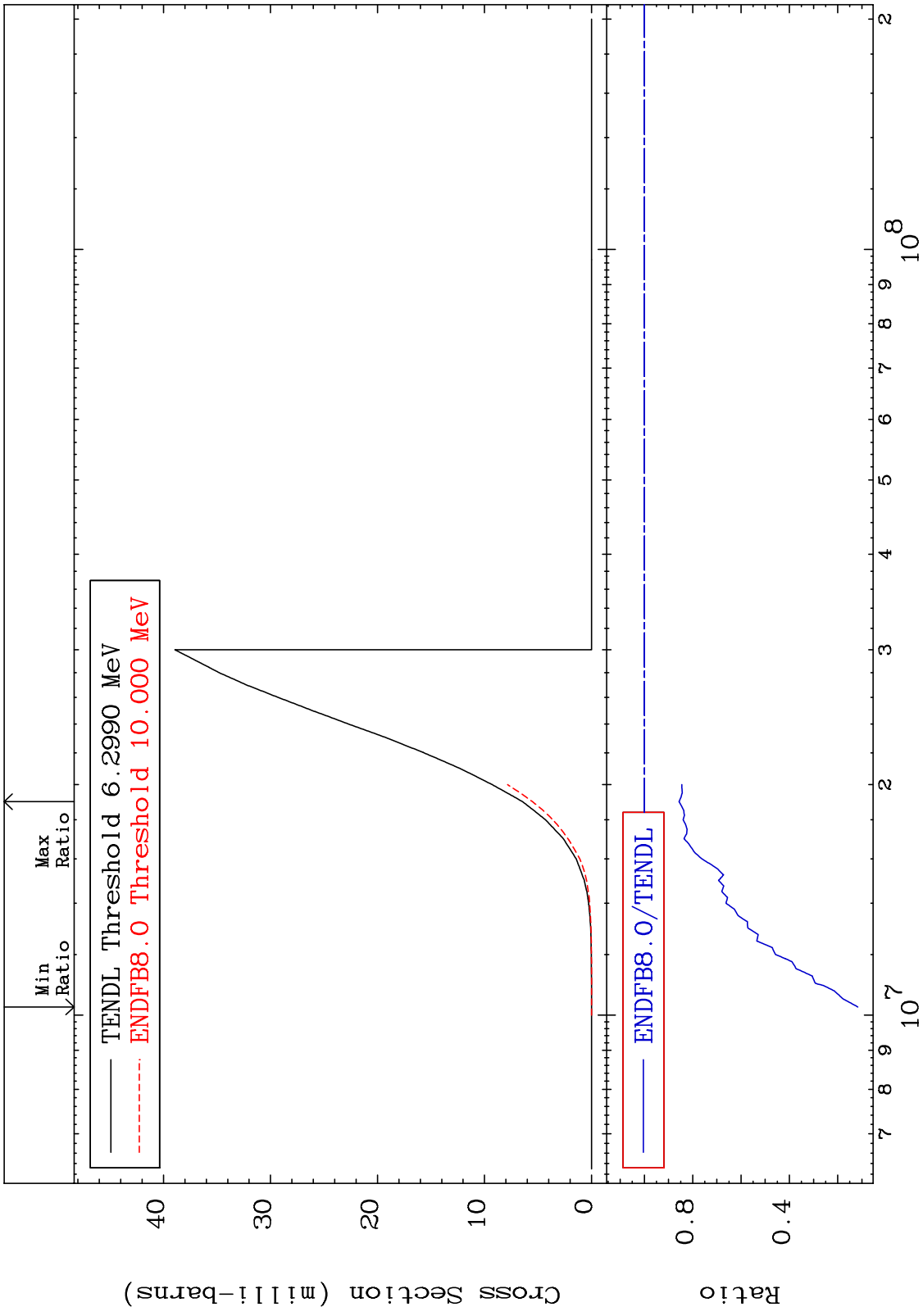
MAT 5728 (n,3n) Cross Section 57-La-139 -99.66 To -11.46%



MAT 5728 $^{57}\text{La-139}$ $(n, n') \alpha$ $^{-96.47 \text{ To } -87.31\%}$

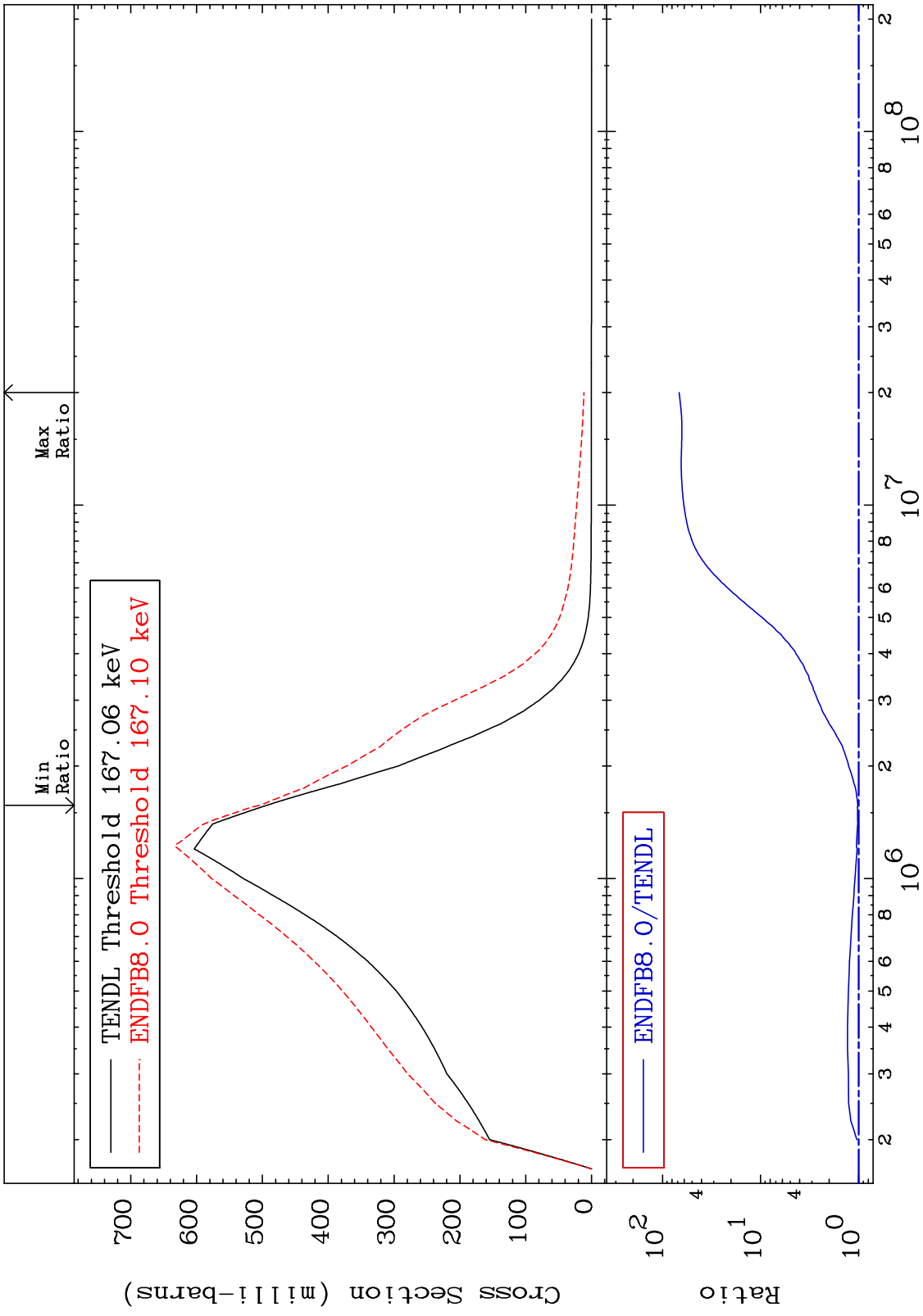


MAT 5728 (n, n') p $^{57}\text{La-139}$
 Cross Section -88.33 To -14.35%

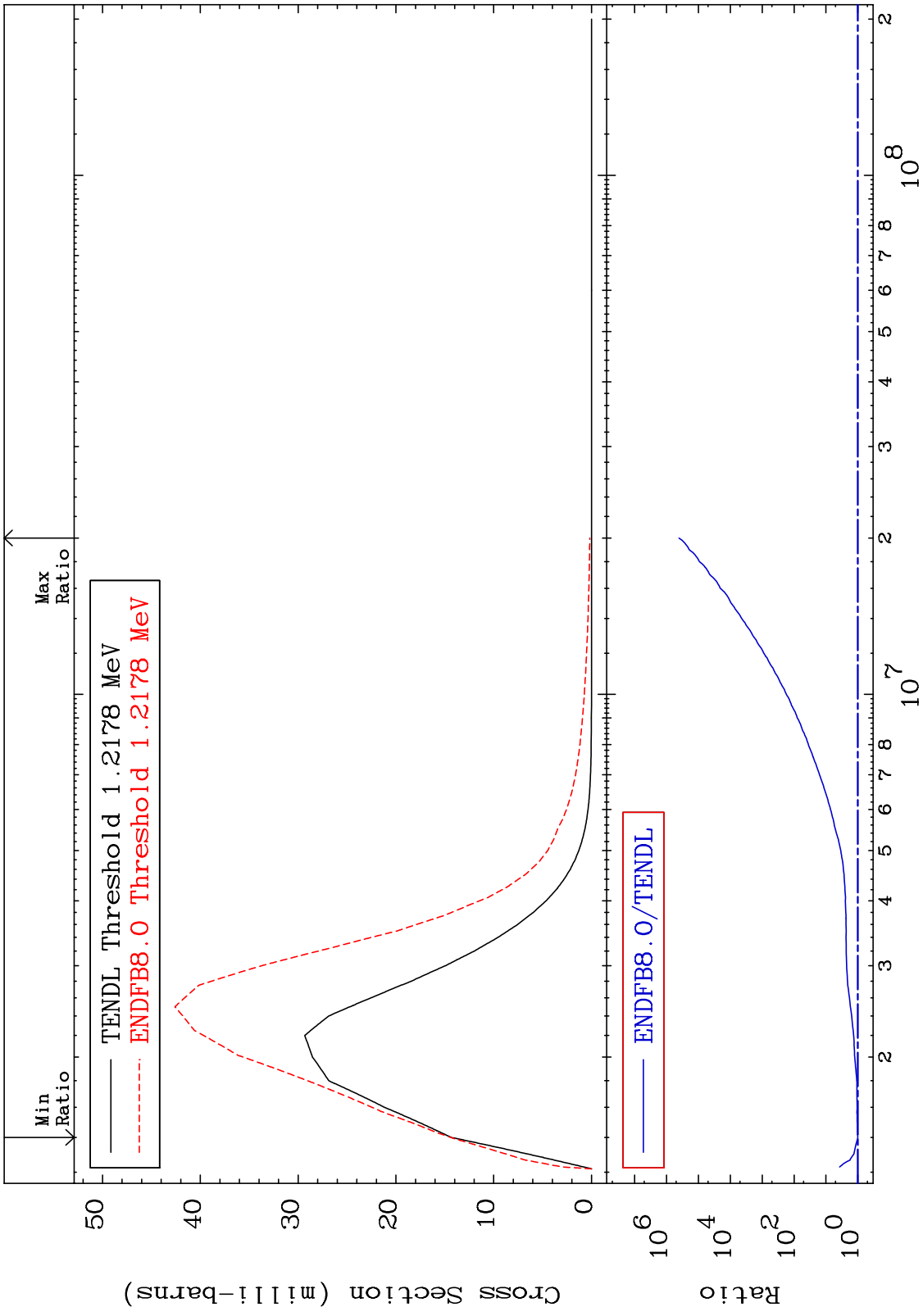


7 57-La-139

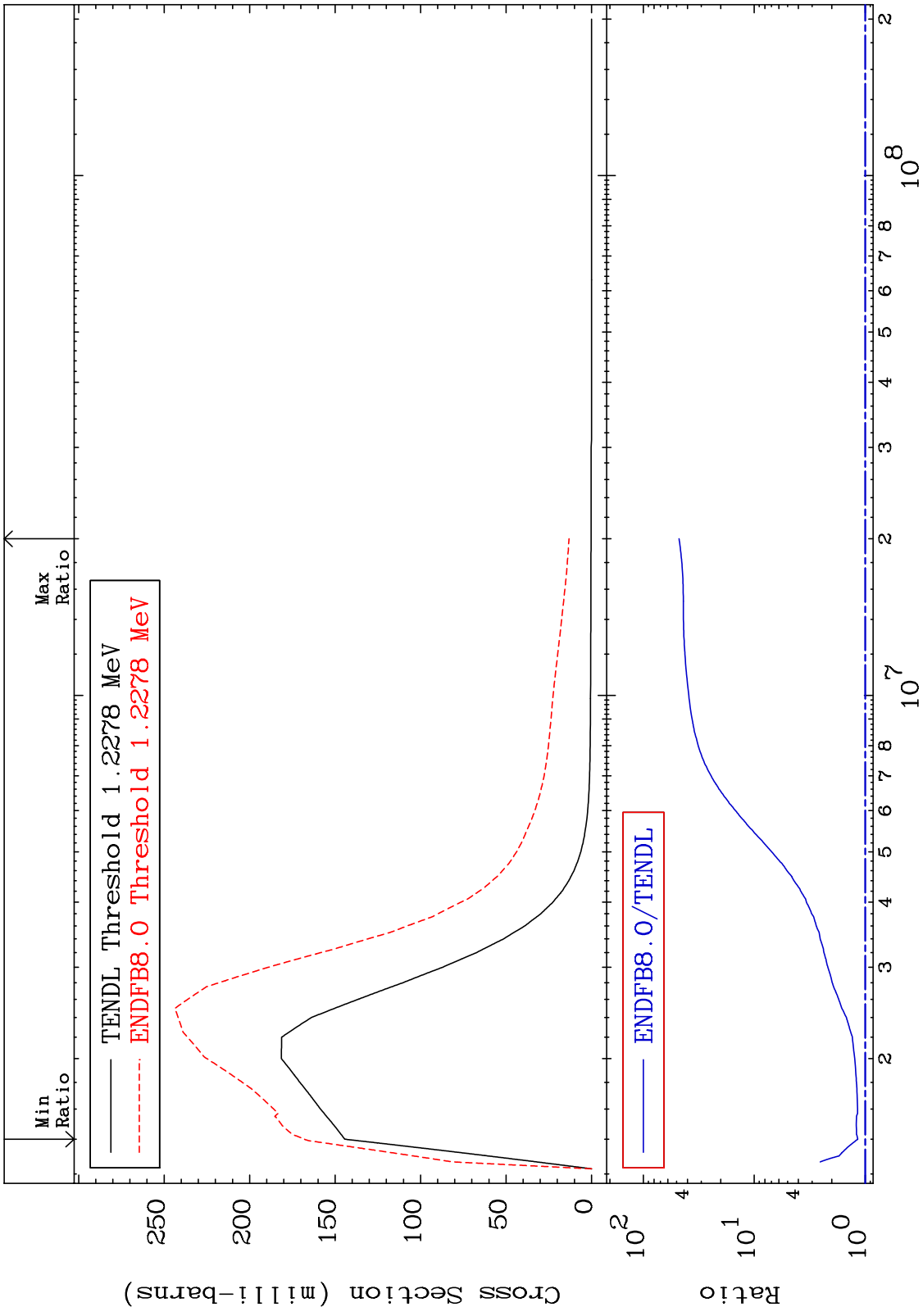
MAT 5728 MT= 51 (n,n') Level Cross Section 57-La-139 2.050 To 6684. %



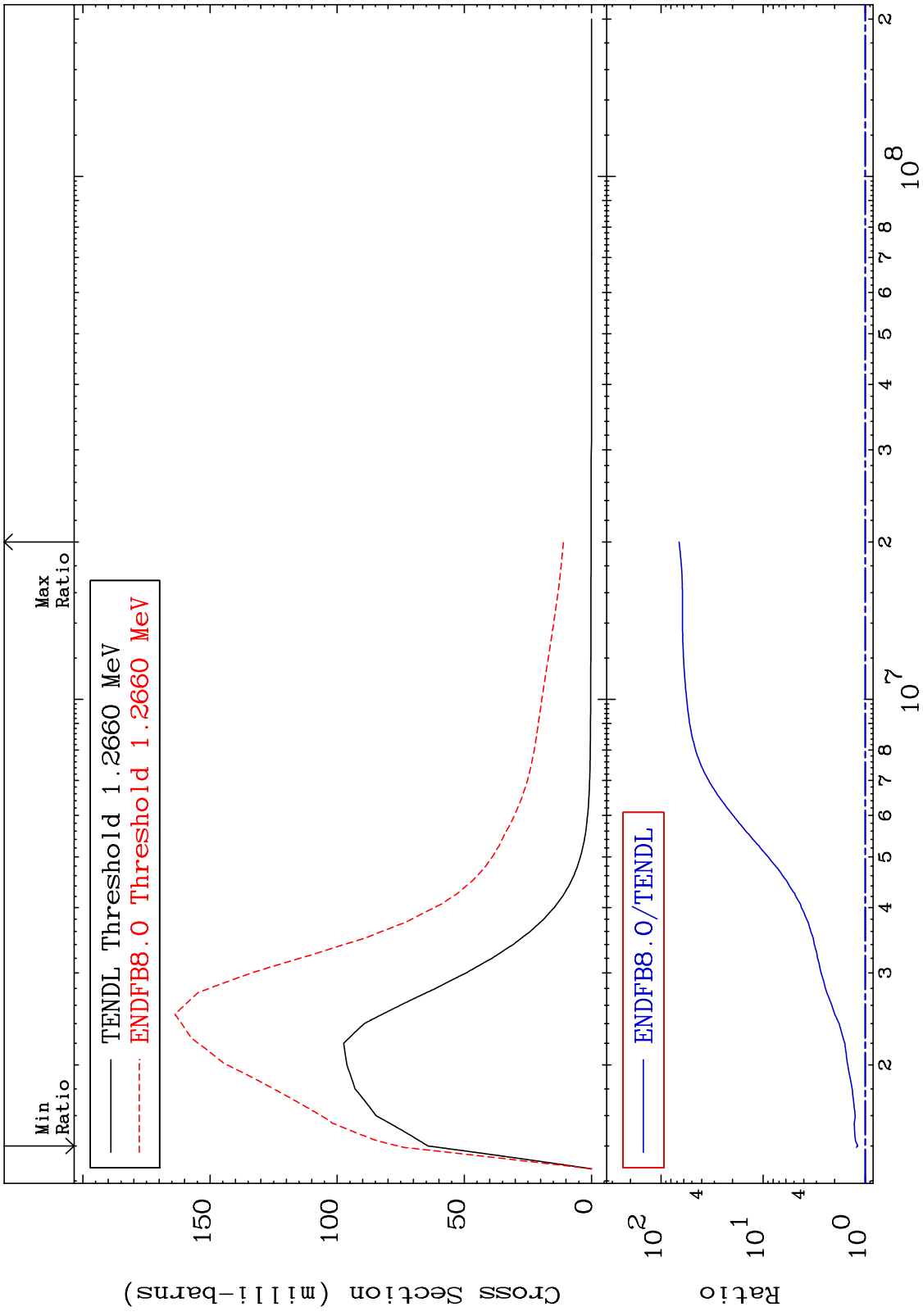
MAT 5728 MT= 52 (n,n') Level Cross Section 57-La-139 To 9999. %



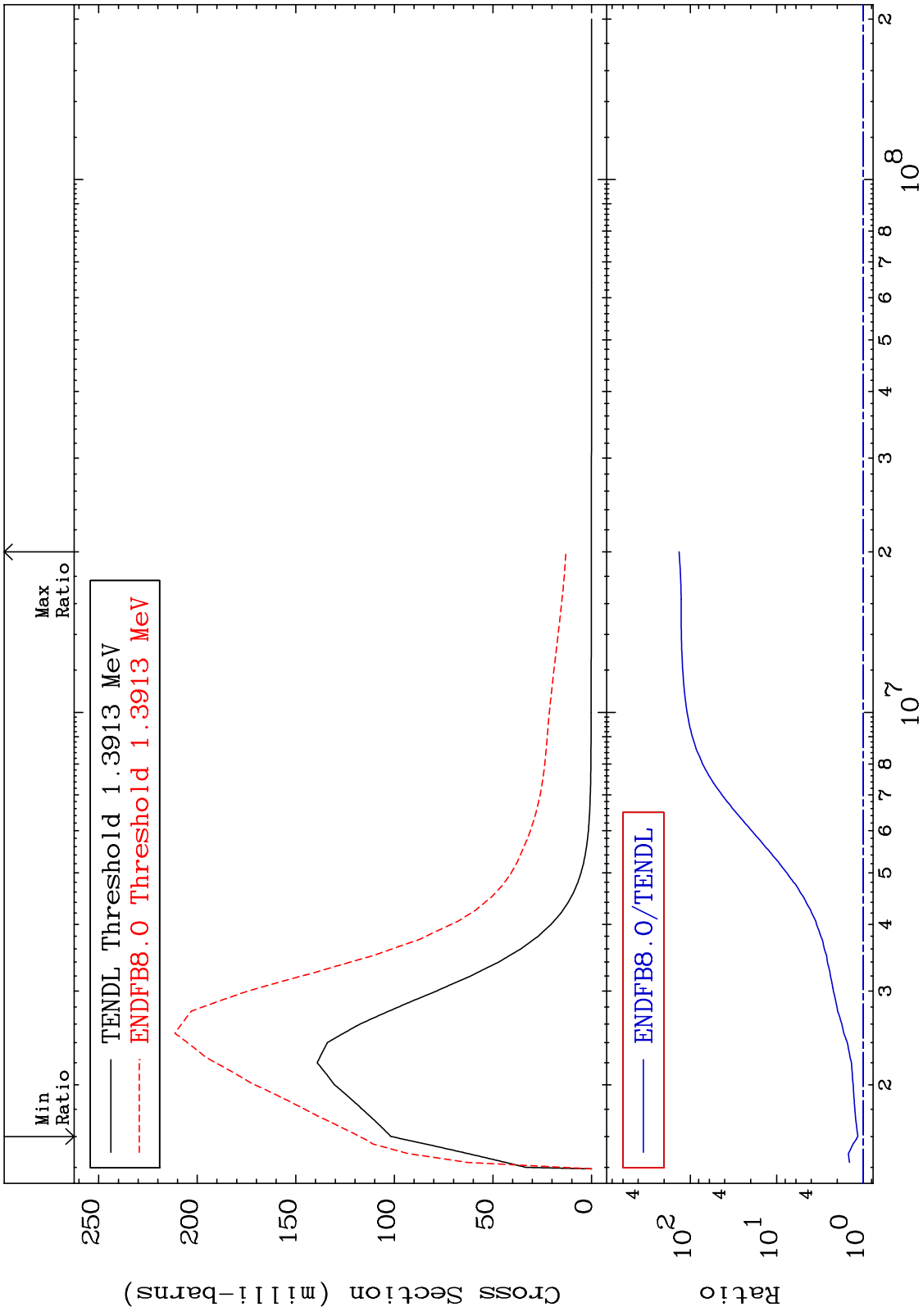
MAT 5728 MT= 53 (n, n') Level Cross Section 57-La-139 To 4659. %
 16.33



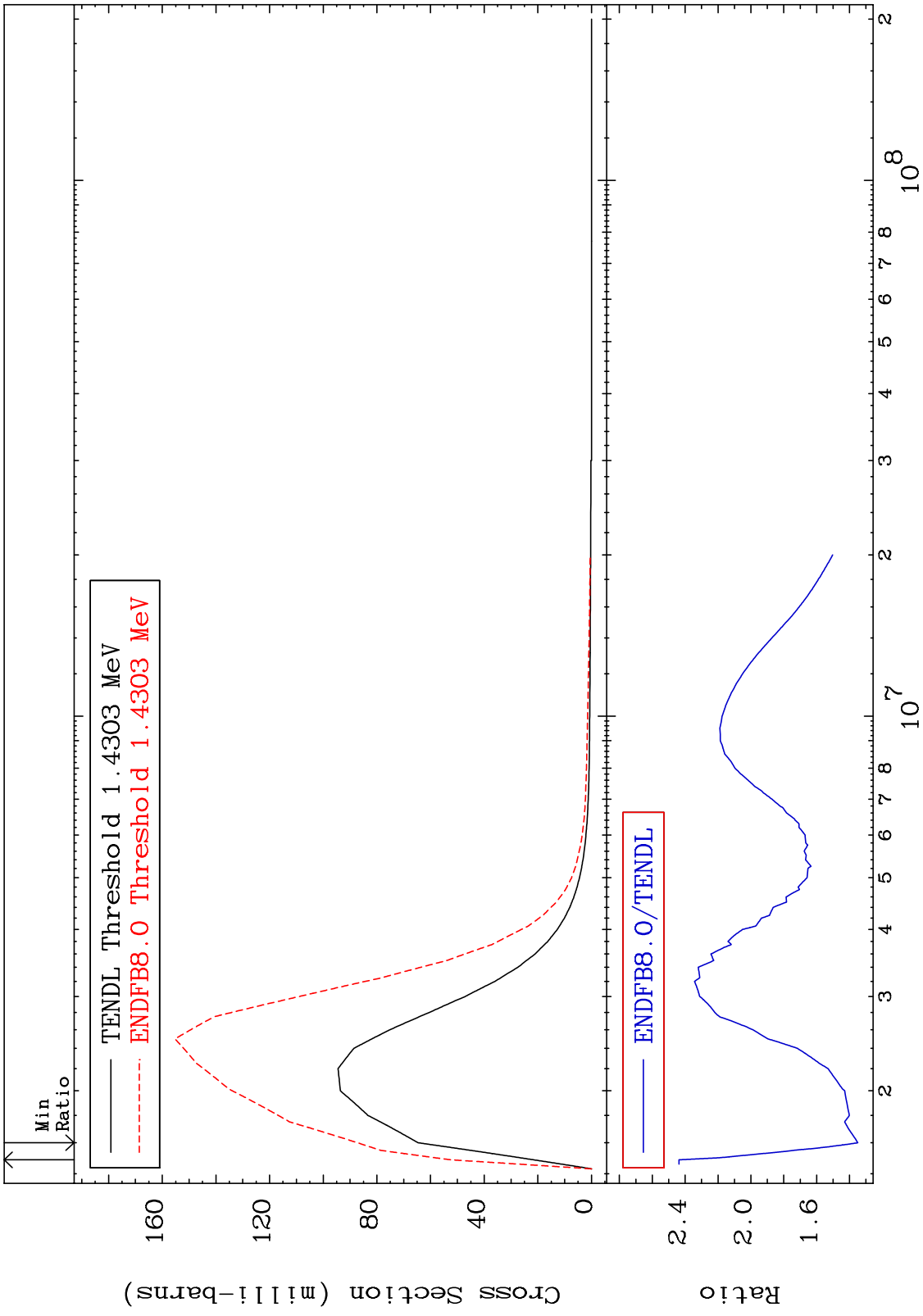
MAT 5728 MT= 54 (n,n') Level Cross Section 57-La-139 18.31 To 6571. %



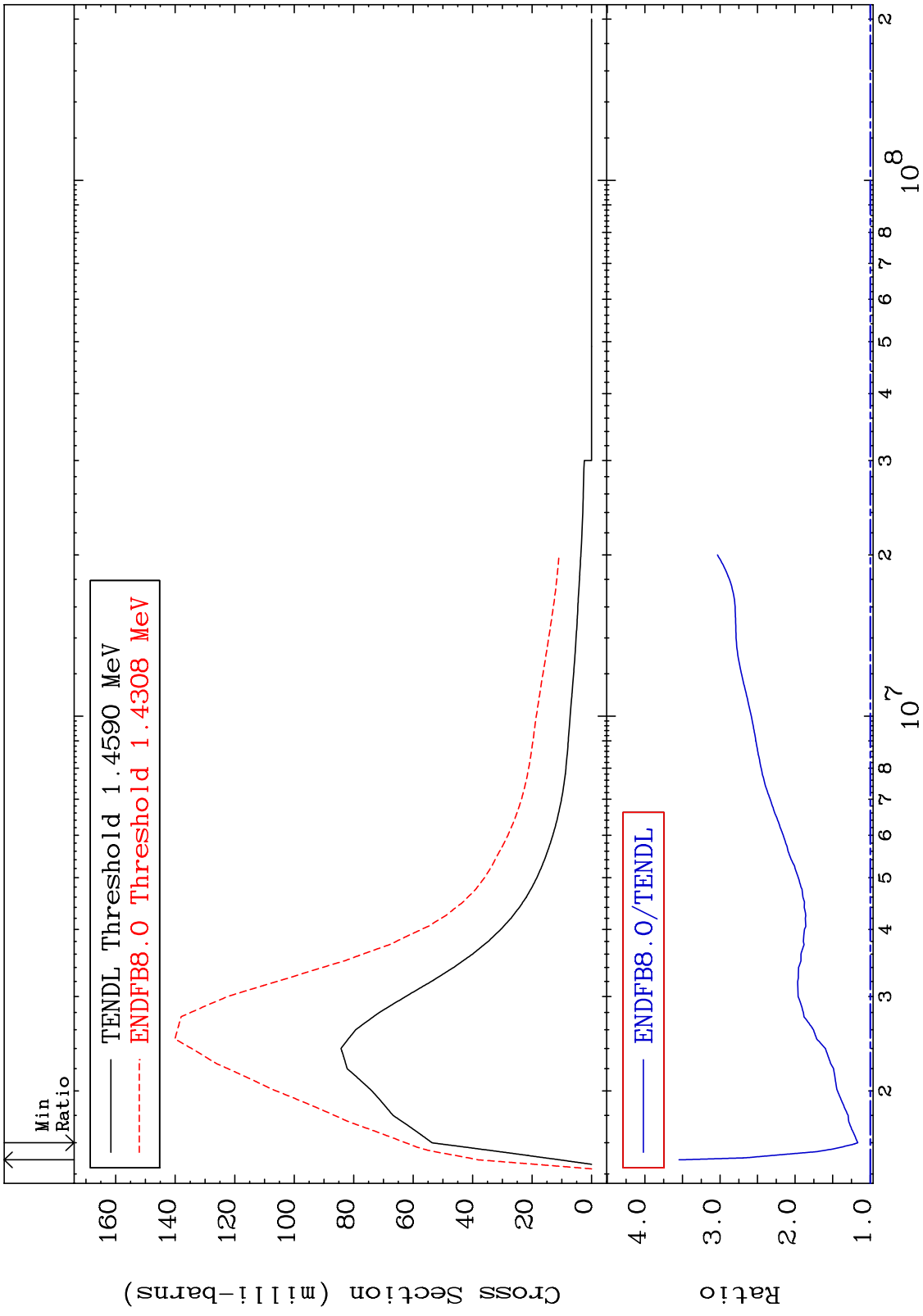
MAT 5728 MT= 55 (n,n') Level Cross Section 57-La-139 To 9999. %
 15.59



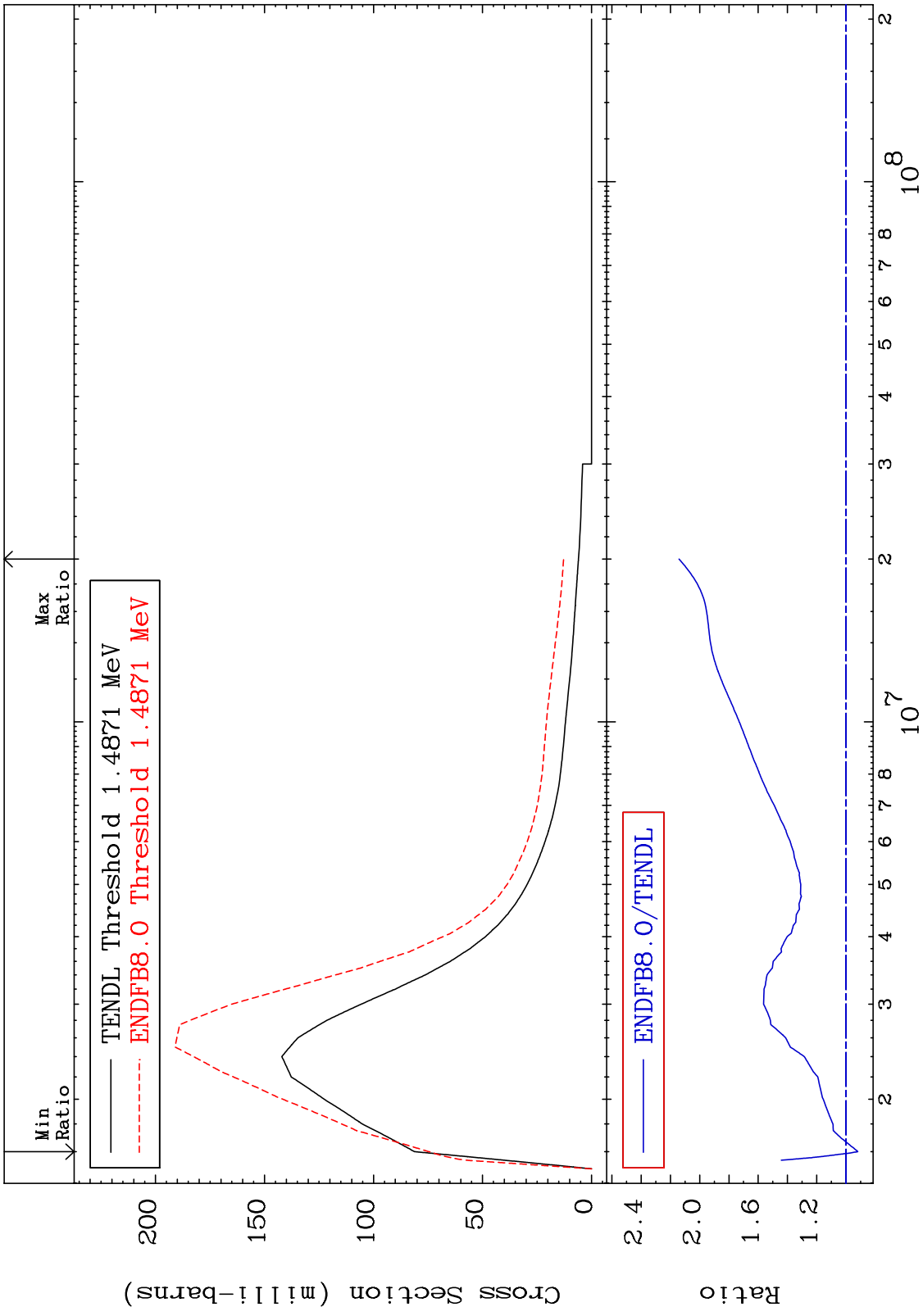
MAT 5728 MT= 56 (n,n') Level Cross Section 57-La-139 34.95 To 143.7 %



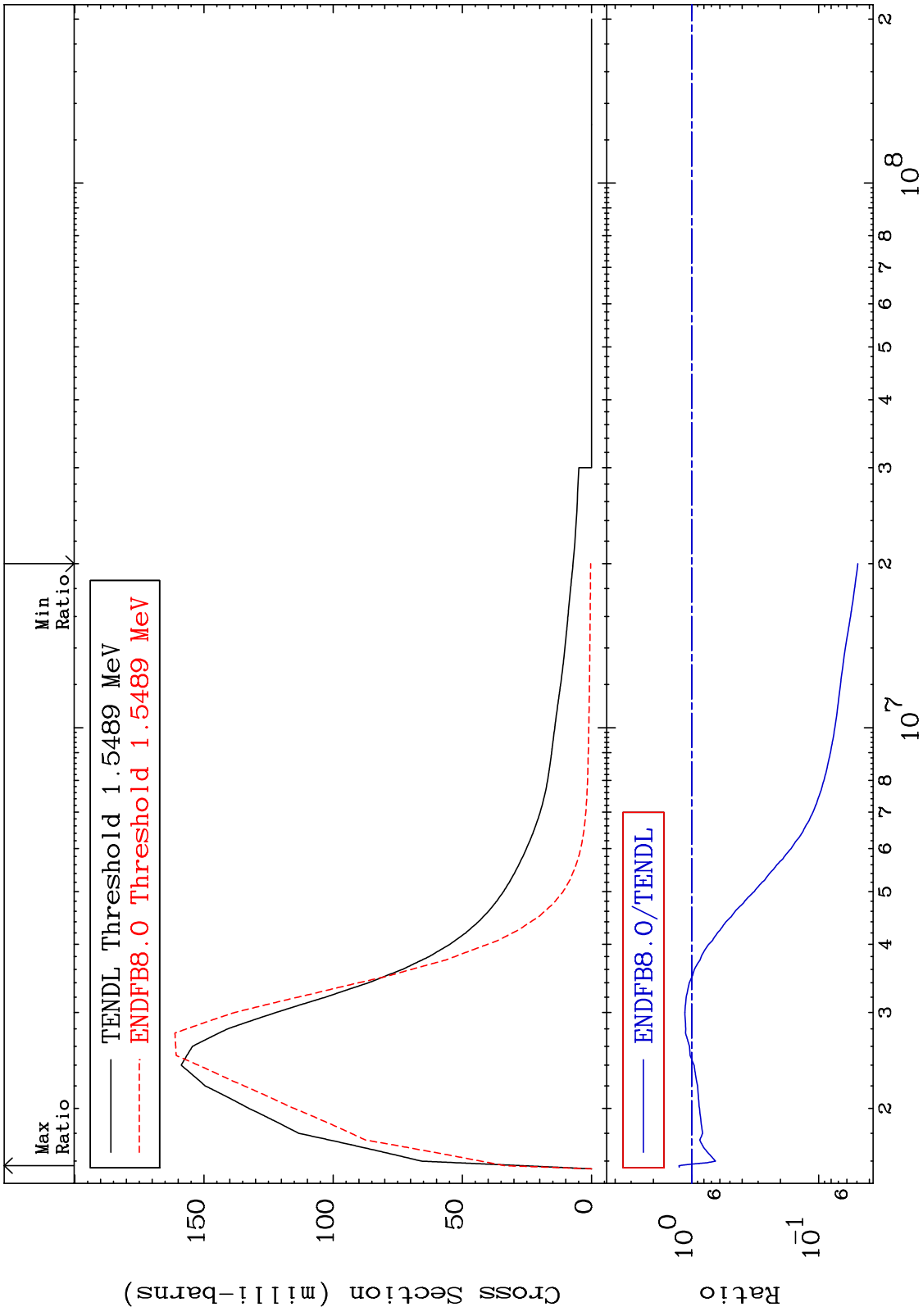
MAT 5728 MT= 57 (n,n') Level Cross Section 57-La-139 16.46 To 254.5 %



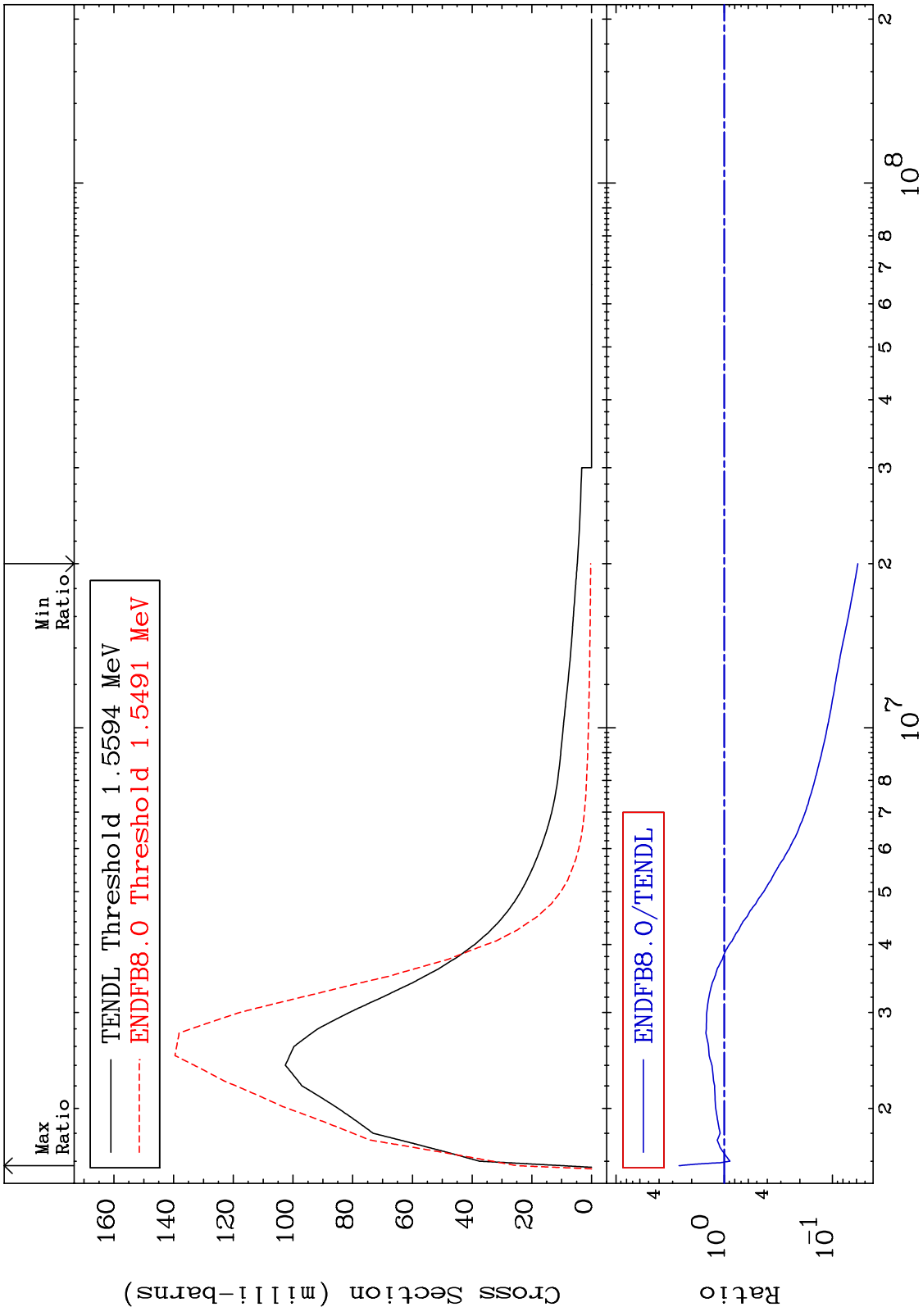
MAT 5728 MT= 58 (n,n') Level Cross Section 57-La-139 -8.124 To 114.1 %



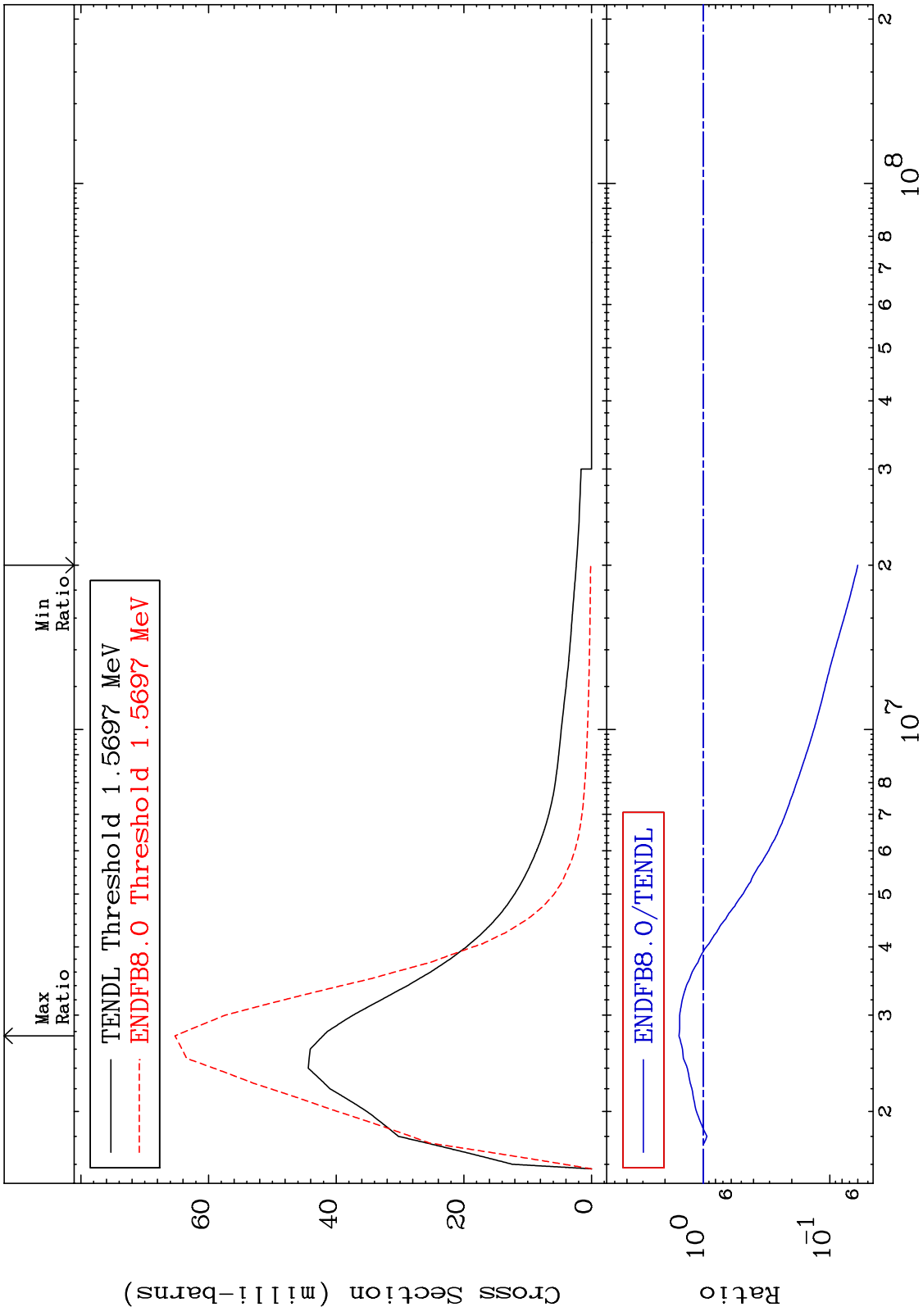
MAT 5728 MT= 59 (n,n') Level Cross Section 57-La-139 -95.08 To 25.68 %



MAT 5728 MT= 60 (n,n') Level Cross Section 57-La-139 -94.17 To 161.2 %



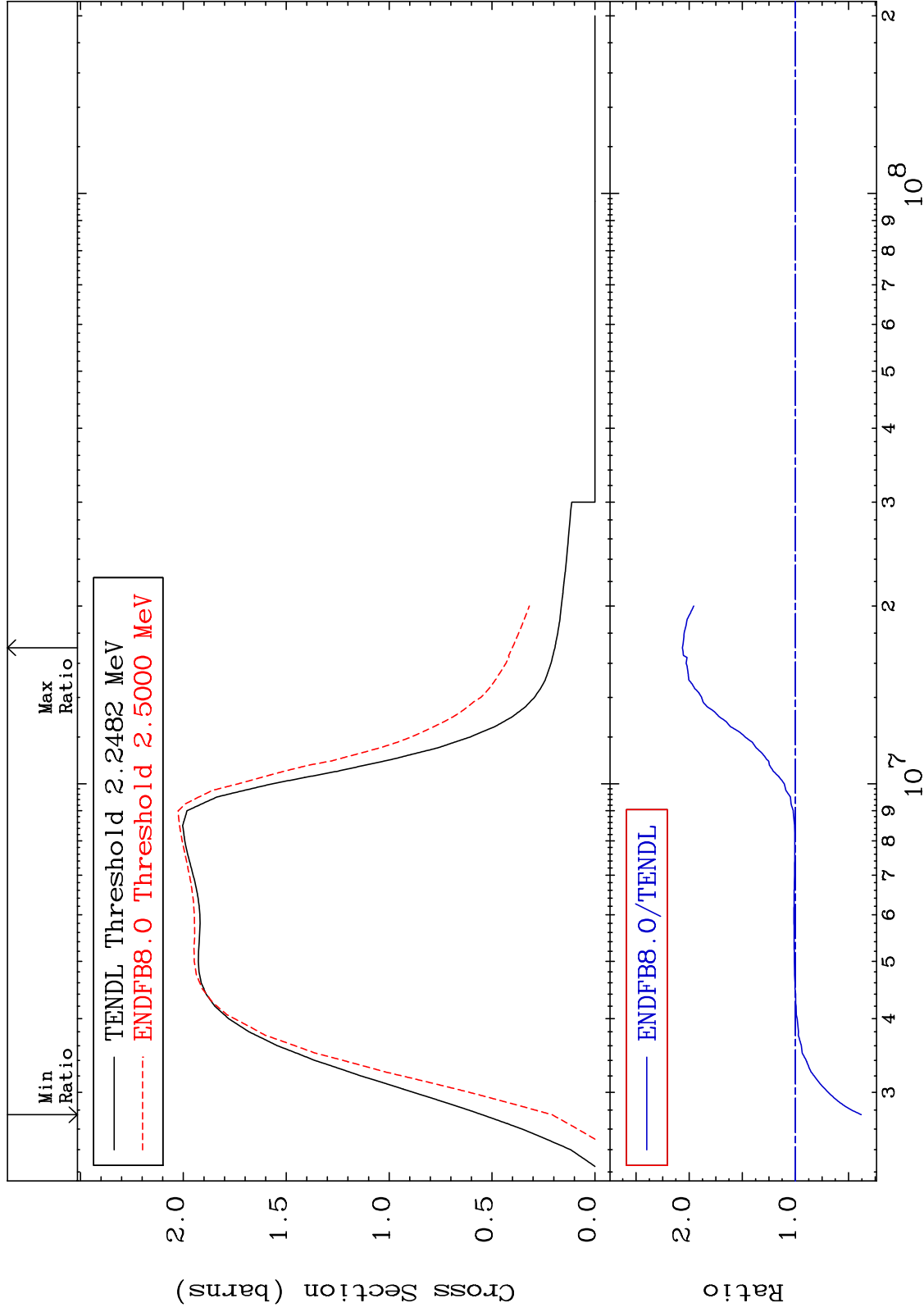
MAT 5728 MT= 61 (n,n') Level Cross Section 57-La-139 -93.99 To 55.17 %



MAT 5728

(n, n') Continuum
Cross Section

57-La-139
-61.95 To 106.4 %



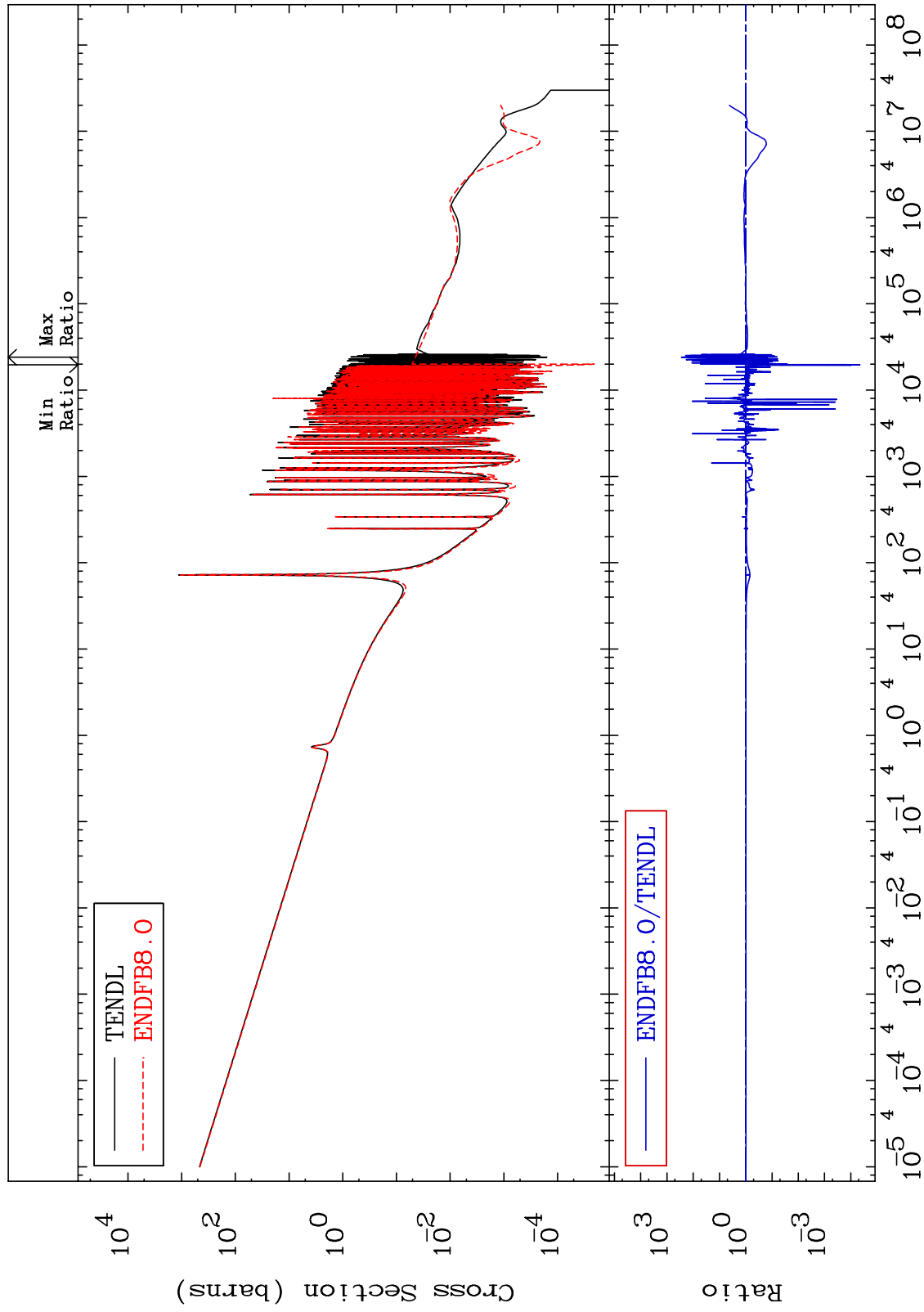
MAT 5728

(n, γ)

57-La-139

Cross Section

-100.0 To 9999. %



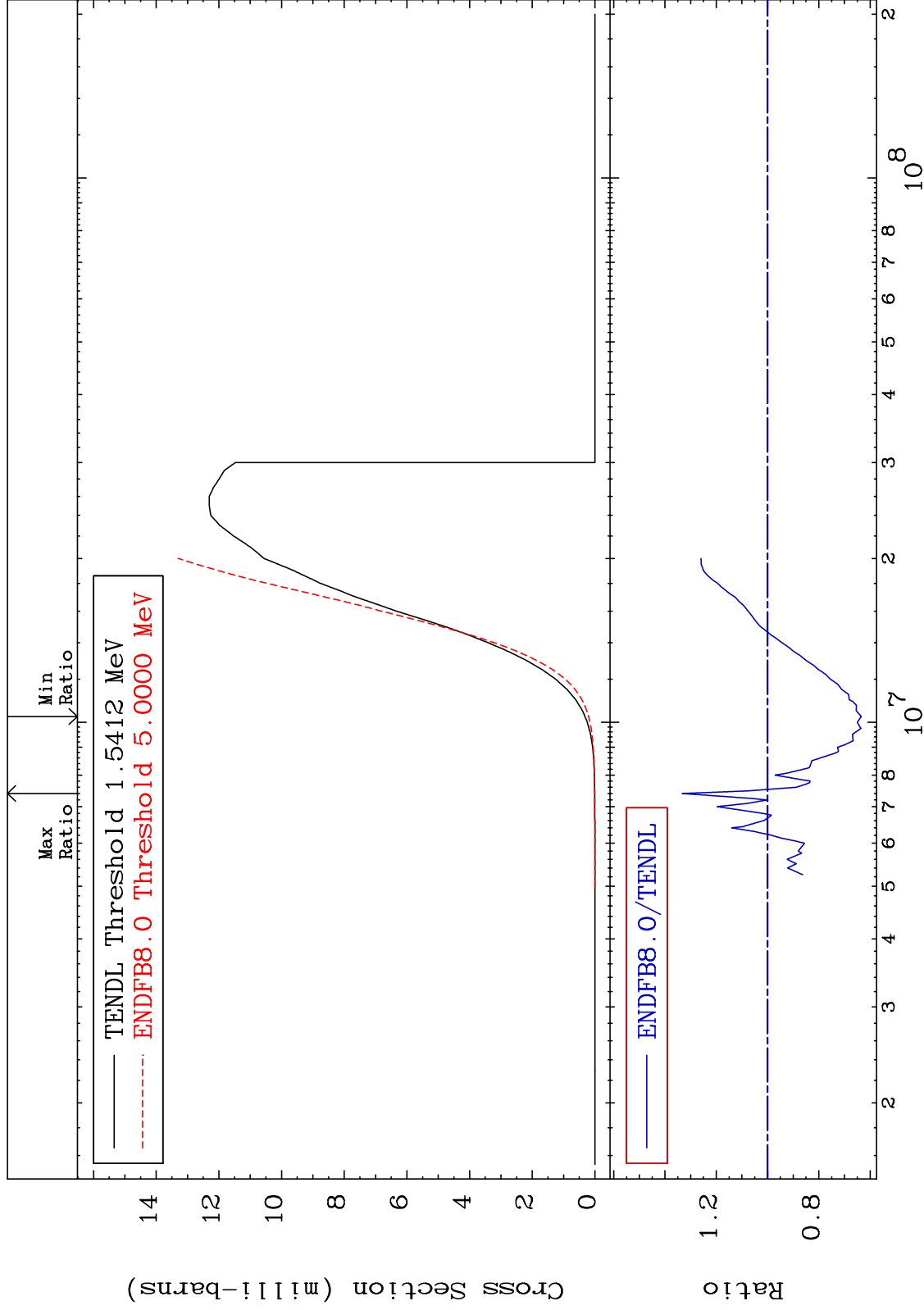
MAT 5728

(n,p)

57-La-139

-36.55 To 33.19 %

Cross Section

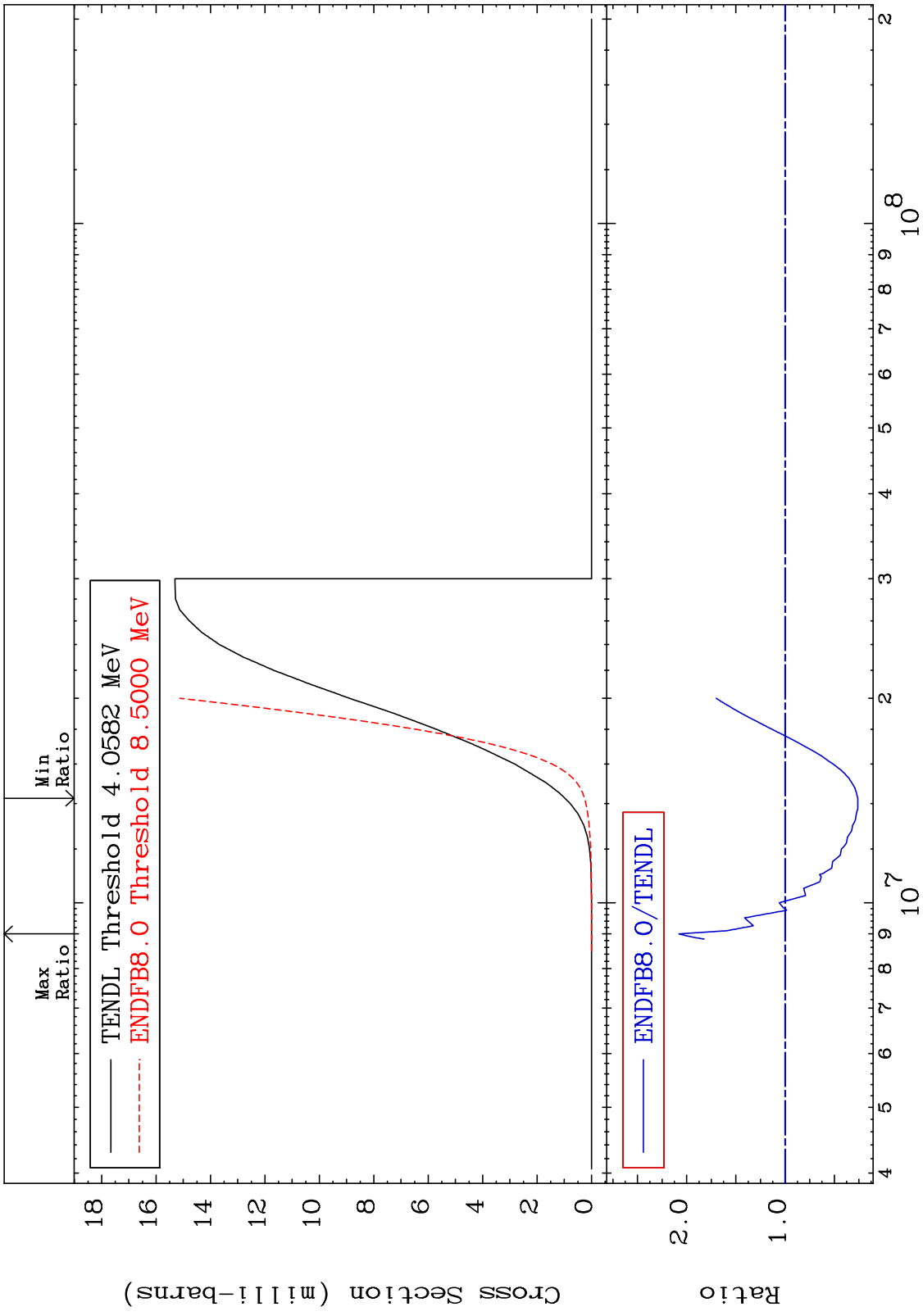


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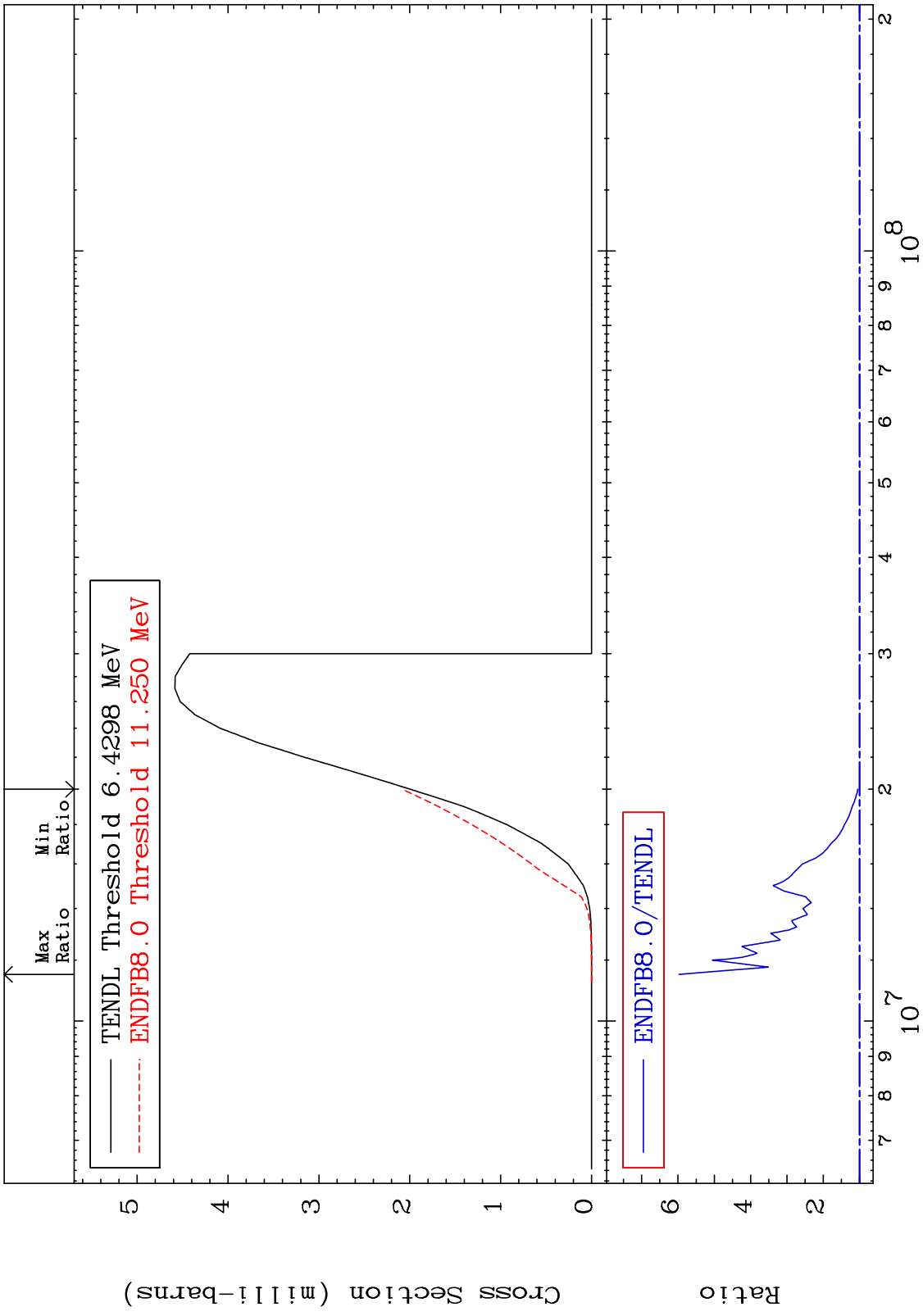
Incident Energy (eV)

57-La-139

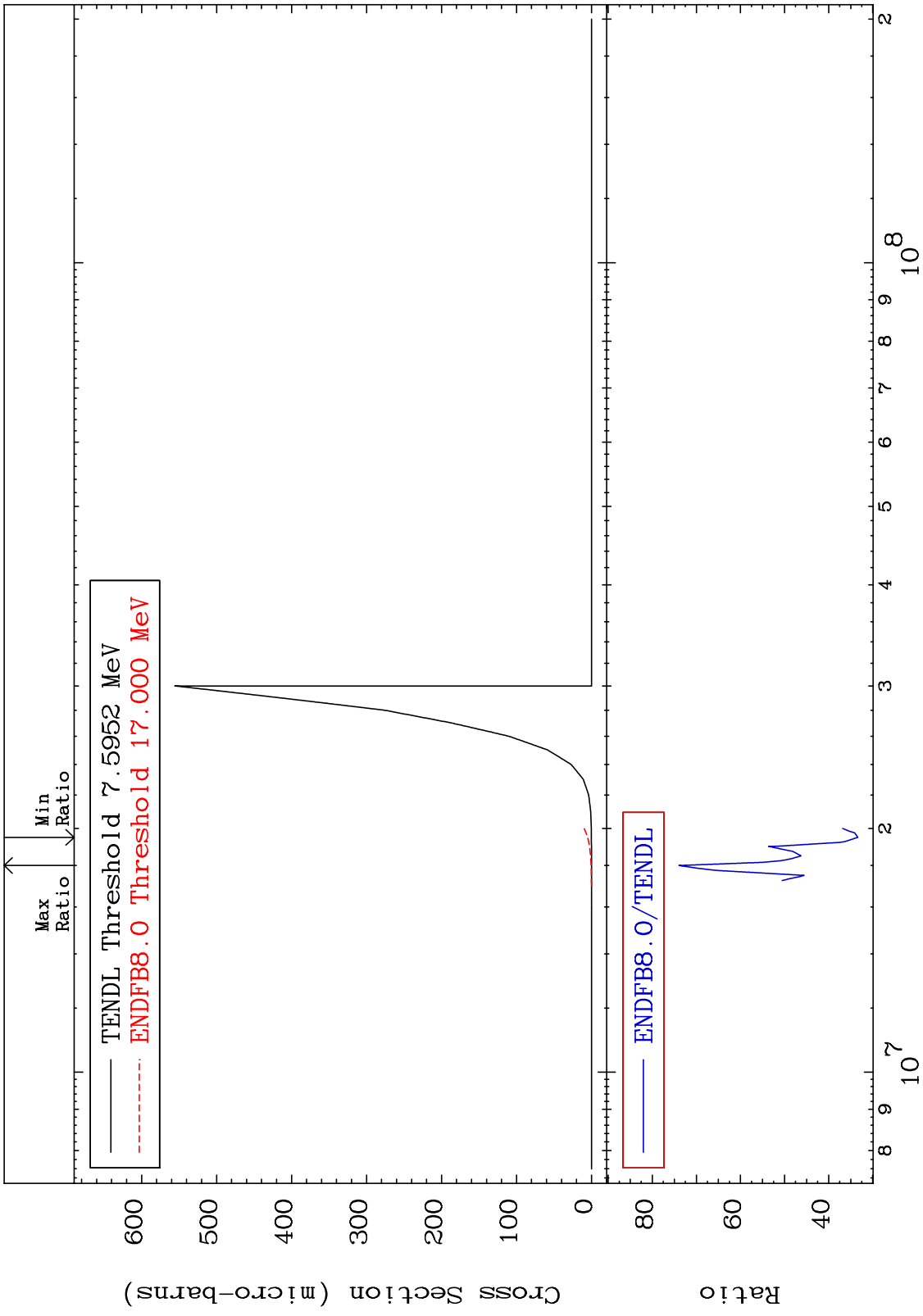
MAT 5728 (n,d) Cross Section 57-La-139 -73.90 To 107.8 %



MAT 5728 (n,t) Cross Section 57-La-139 To 497.1 % 4.640



MAT 5728 (n,He-3) 57-La-139
 Cross Section 3238. To 7293. %



24 57-La-139 Incident Energy (eV)

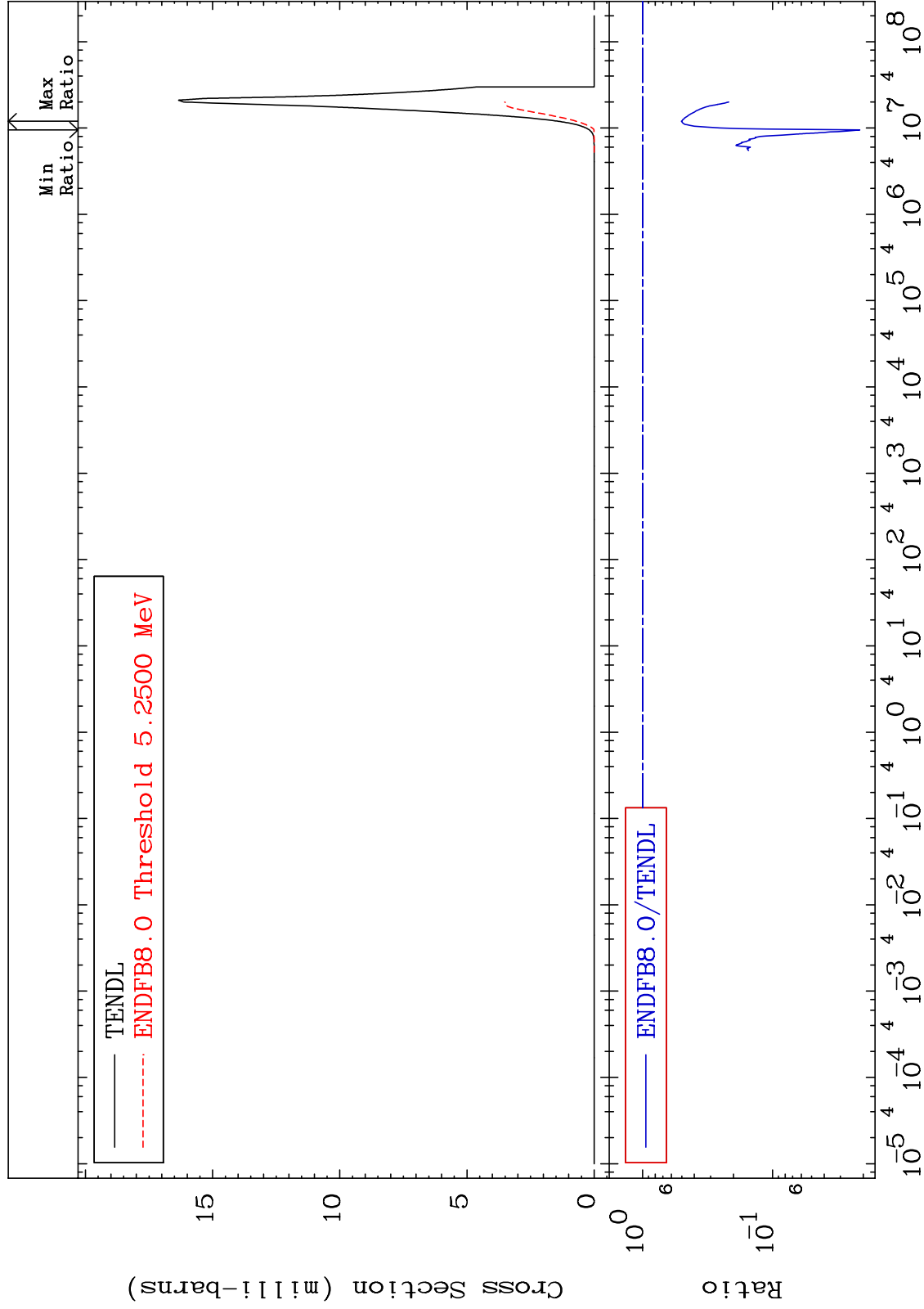
MAT 5728

(n, α)

Cross Section

57-La-139

-97.87 To -49.76%



25

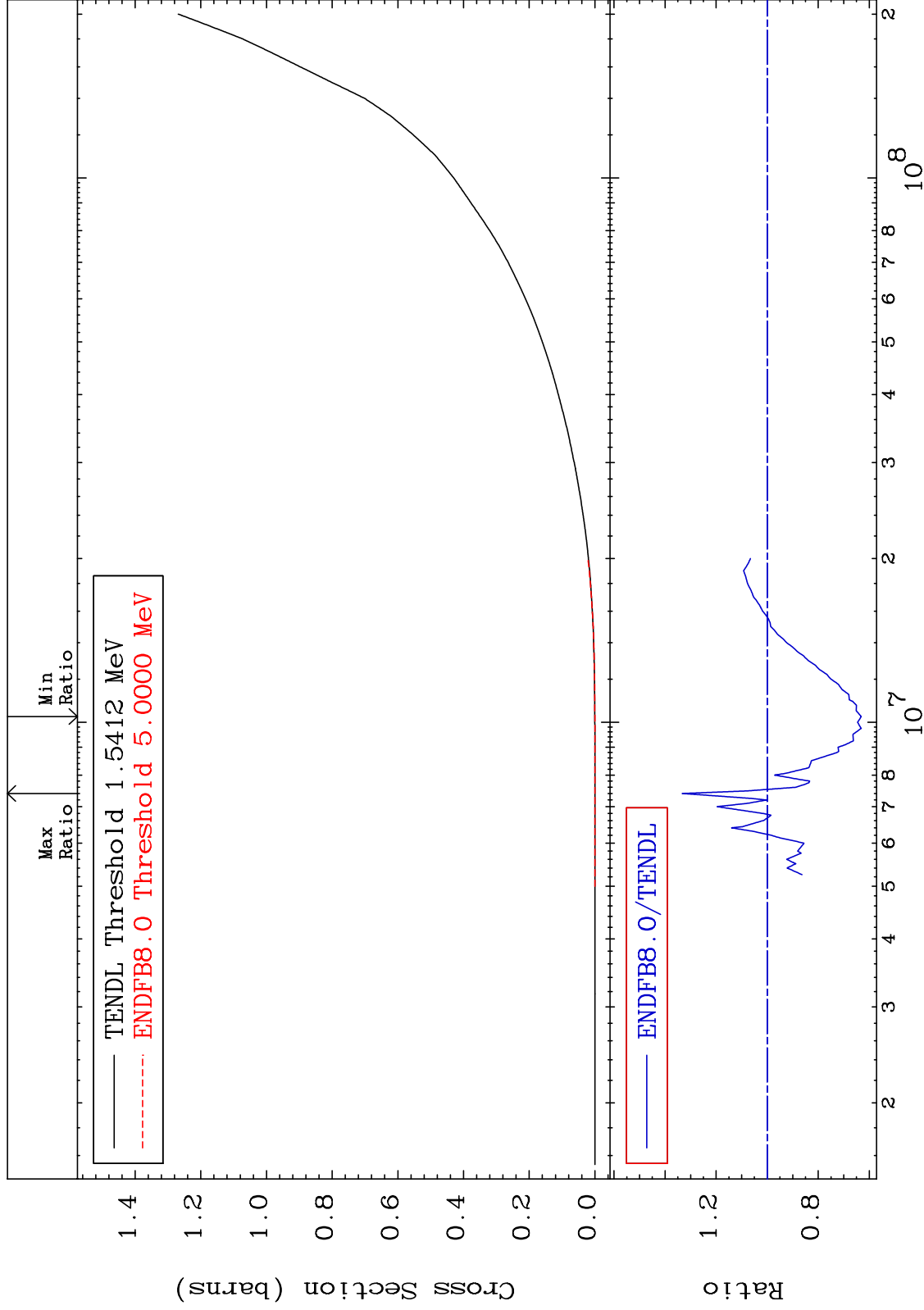
Incident Energy (eV)

57-La-139

MAT 5728

Hydrogen Production
Cross Section

57-La-139
-36.87 To 33.19 %

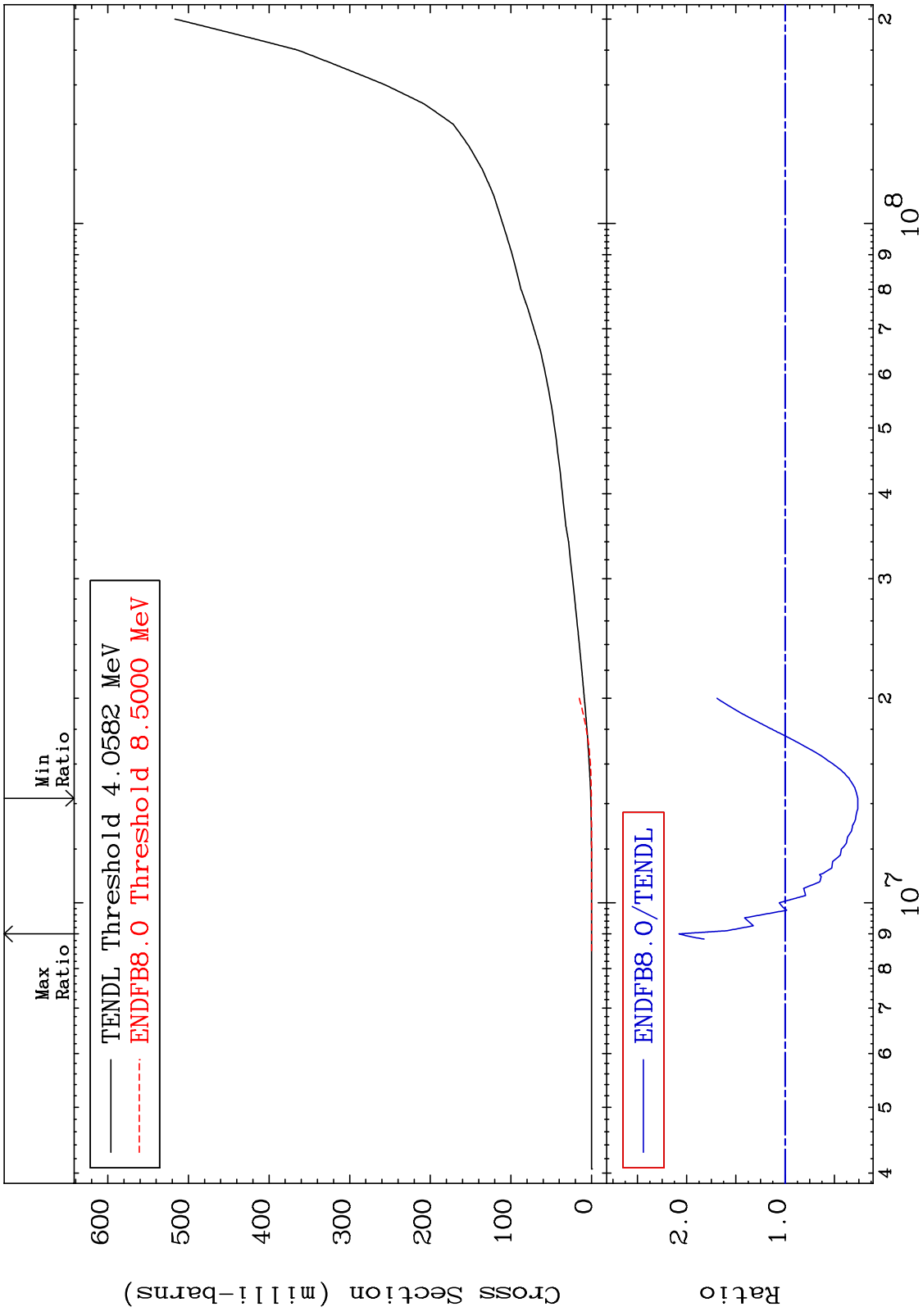


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Incident Energy (eV)

57-La-139

MAT 5728 Deuterium Production Cross Section 57-La-139 -73.90 To 107.8 %

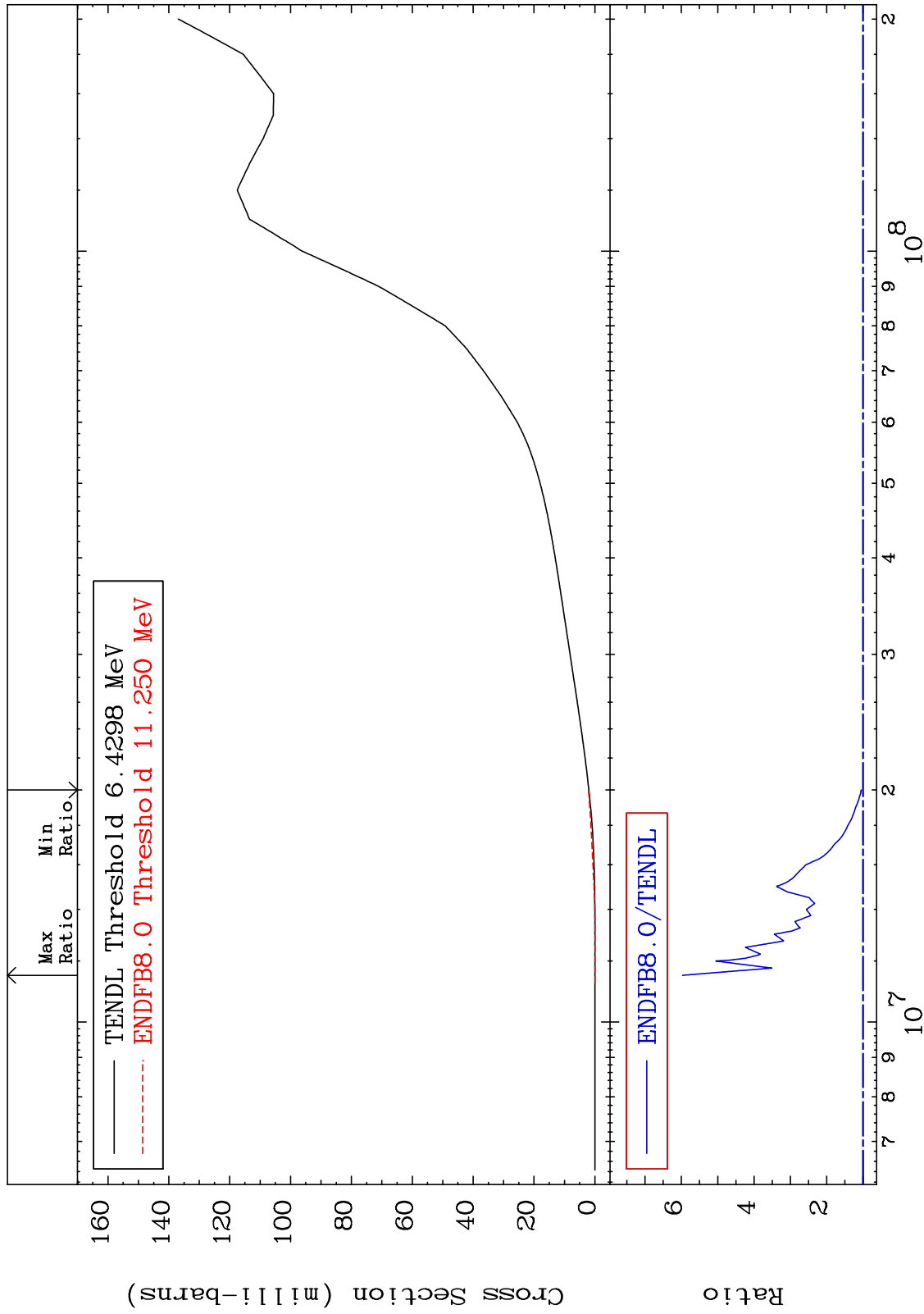


27 57-La-139

MAT 5728

Tritium Production
Cross Section

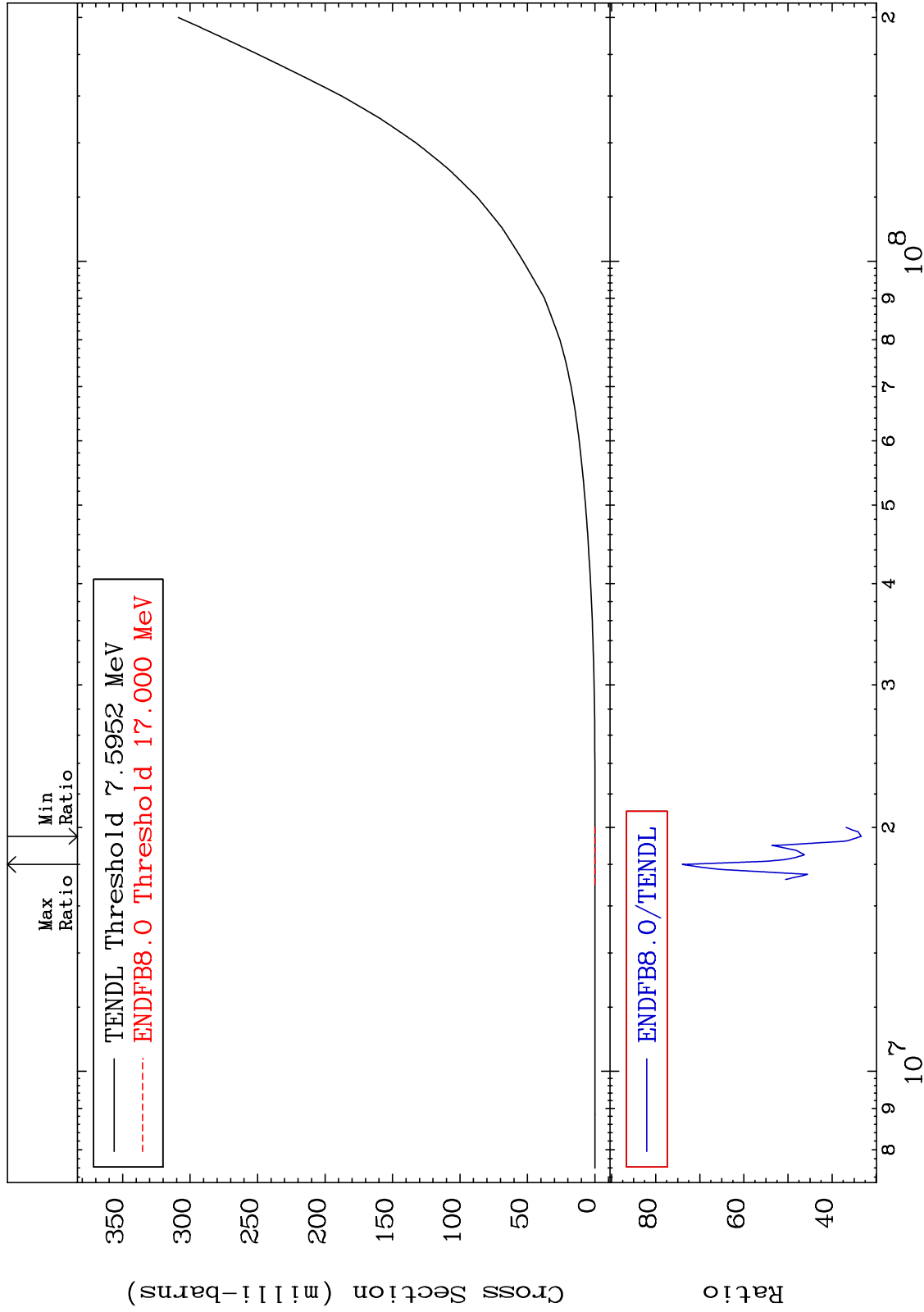
57-La-139
4.524 To 497.1 %



MAT 5728

He-3 Production
Cross Section

57-La-139
3238. To 7293. %



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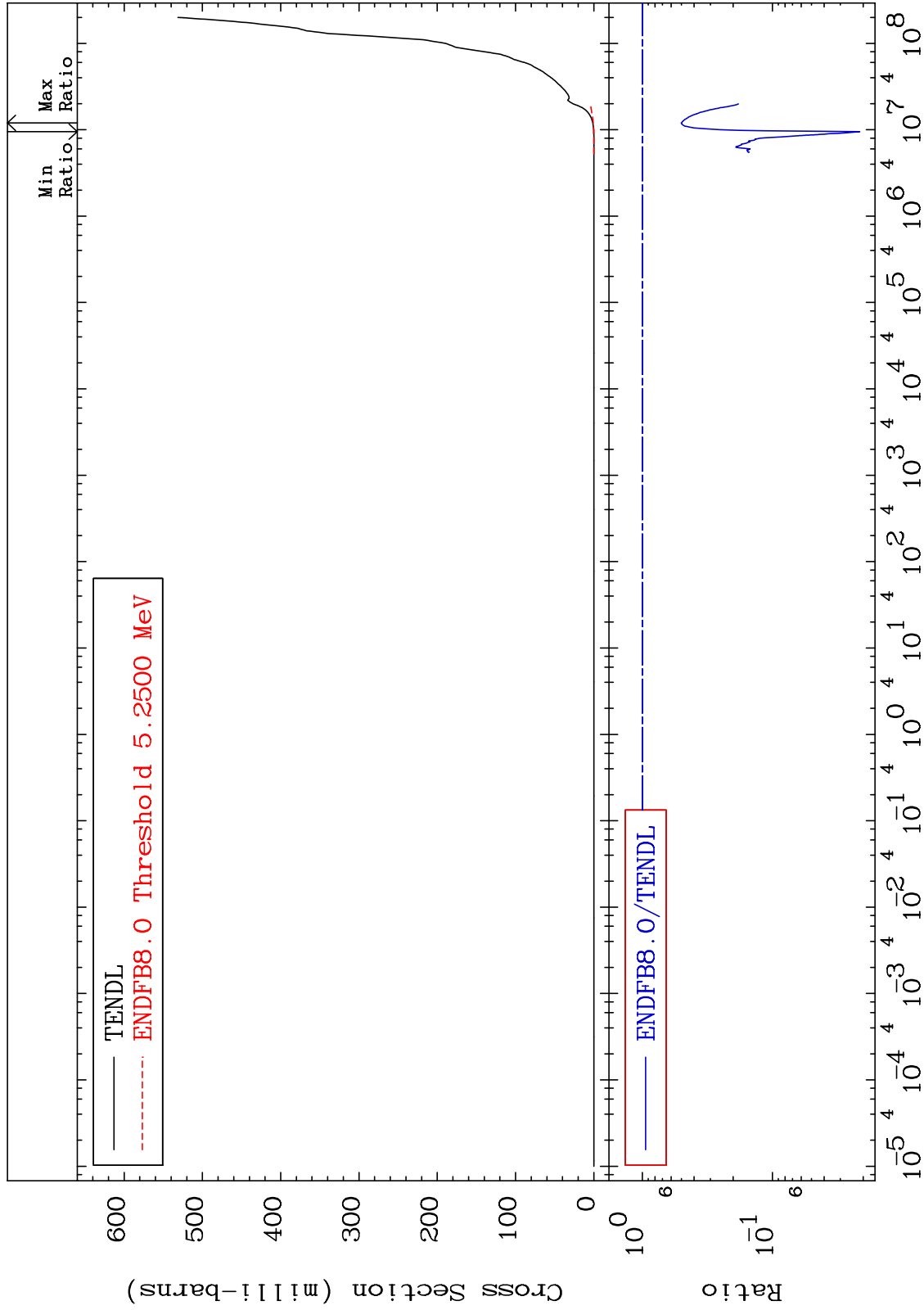
Incident Energy (eV)

57-La-139

MAT 5728

He-4 Production
Cross Section

57-La-139
-97.87 To -49.80%

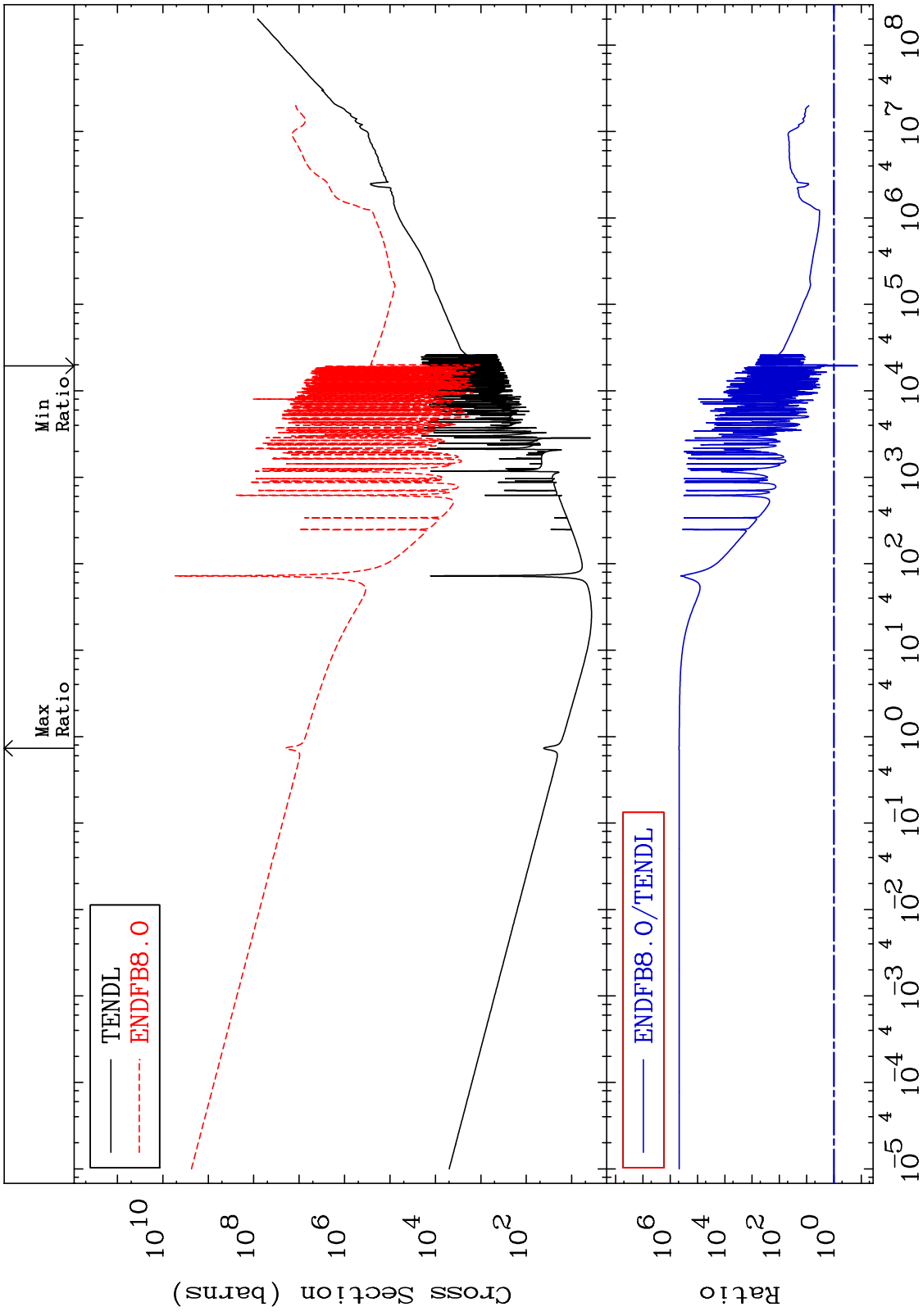


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Incident Energy (eV)

57-La-139

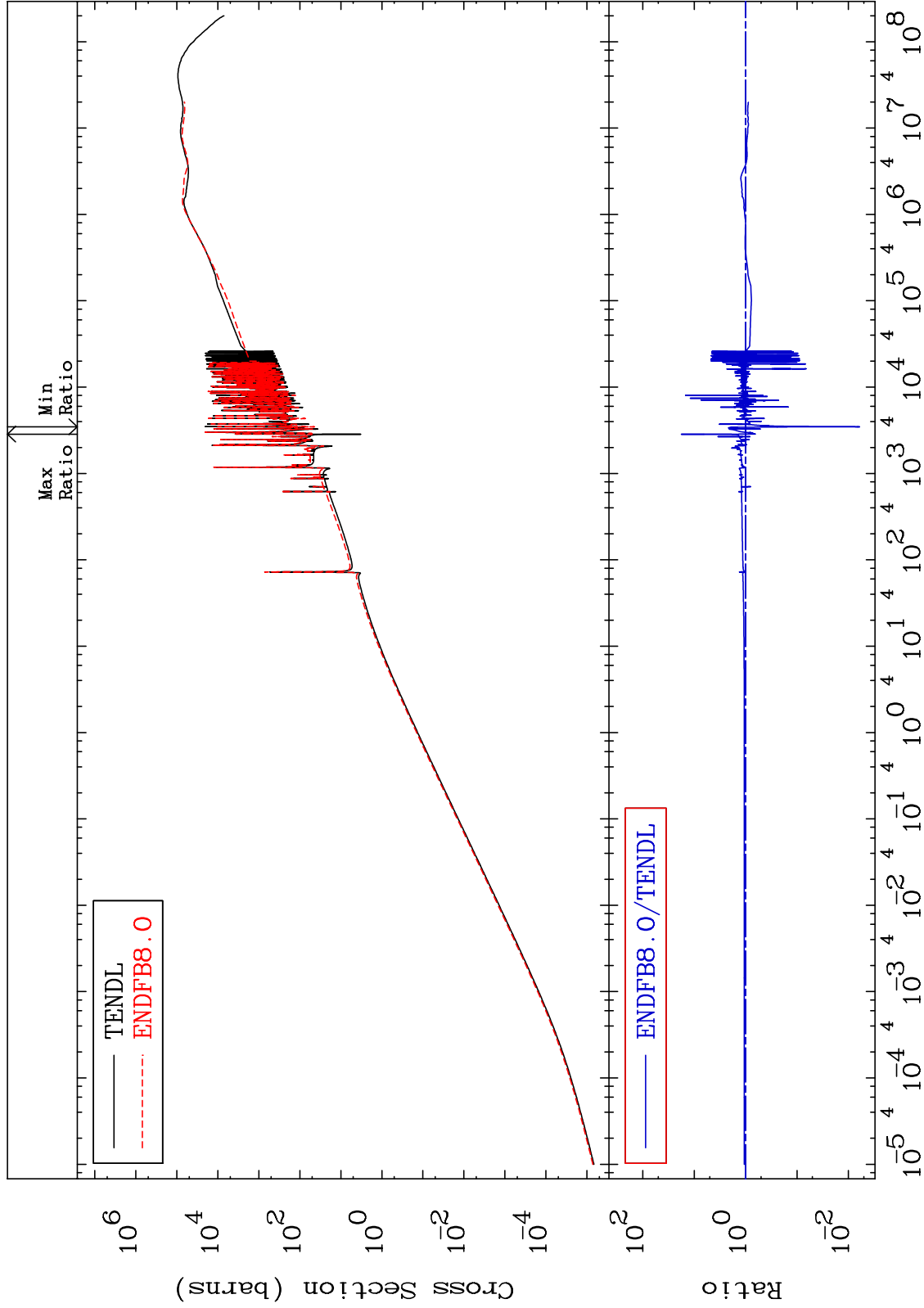
MAT 5728 Kerma total (eV-barns) 57-La-139
 Cross Section -86.71 To 9999. %



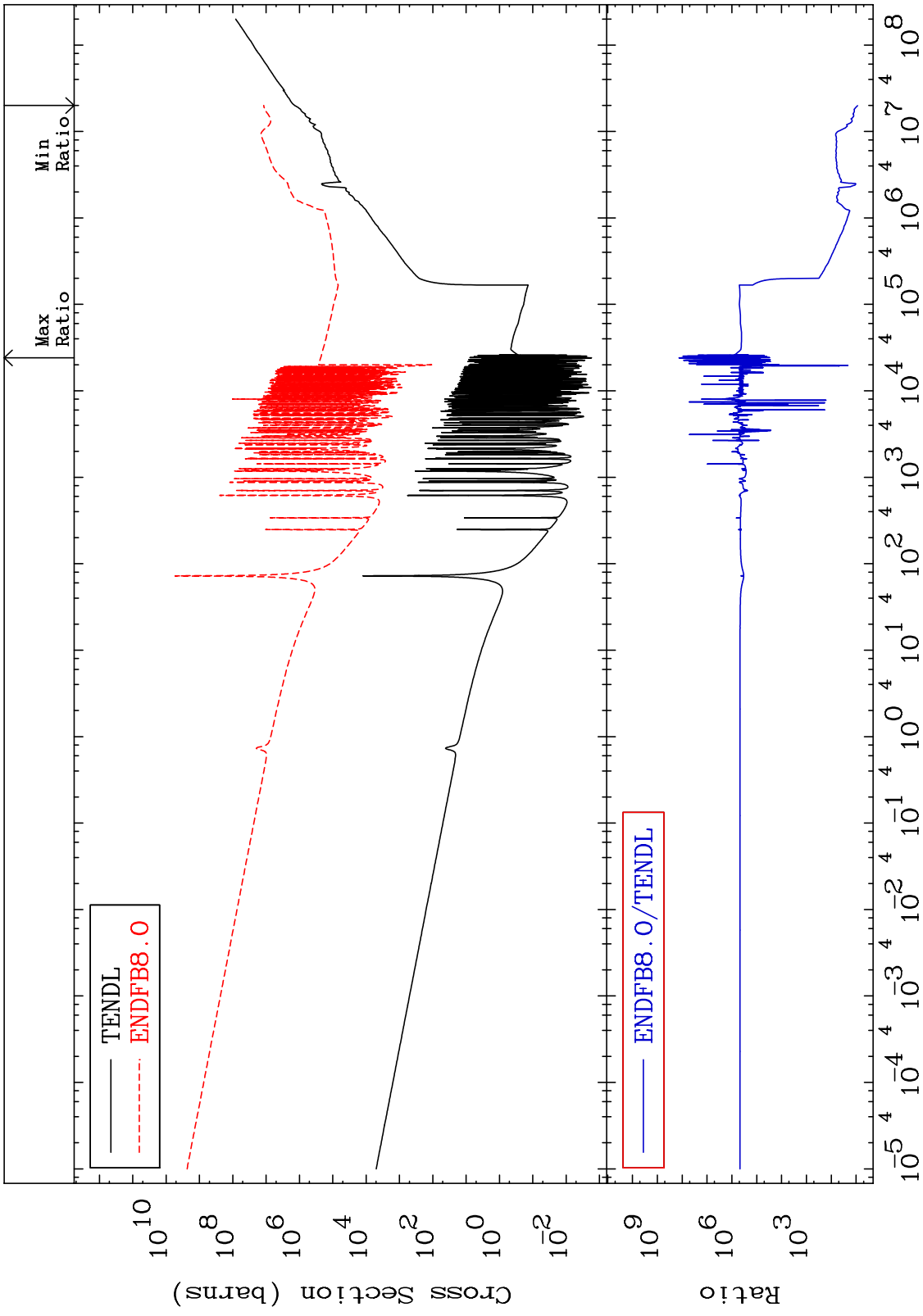
MAT 5728

Kerma elastic
Cross Section

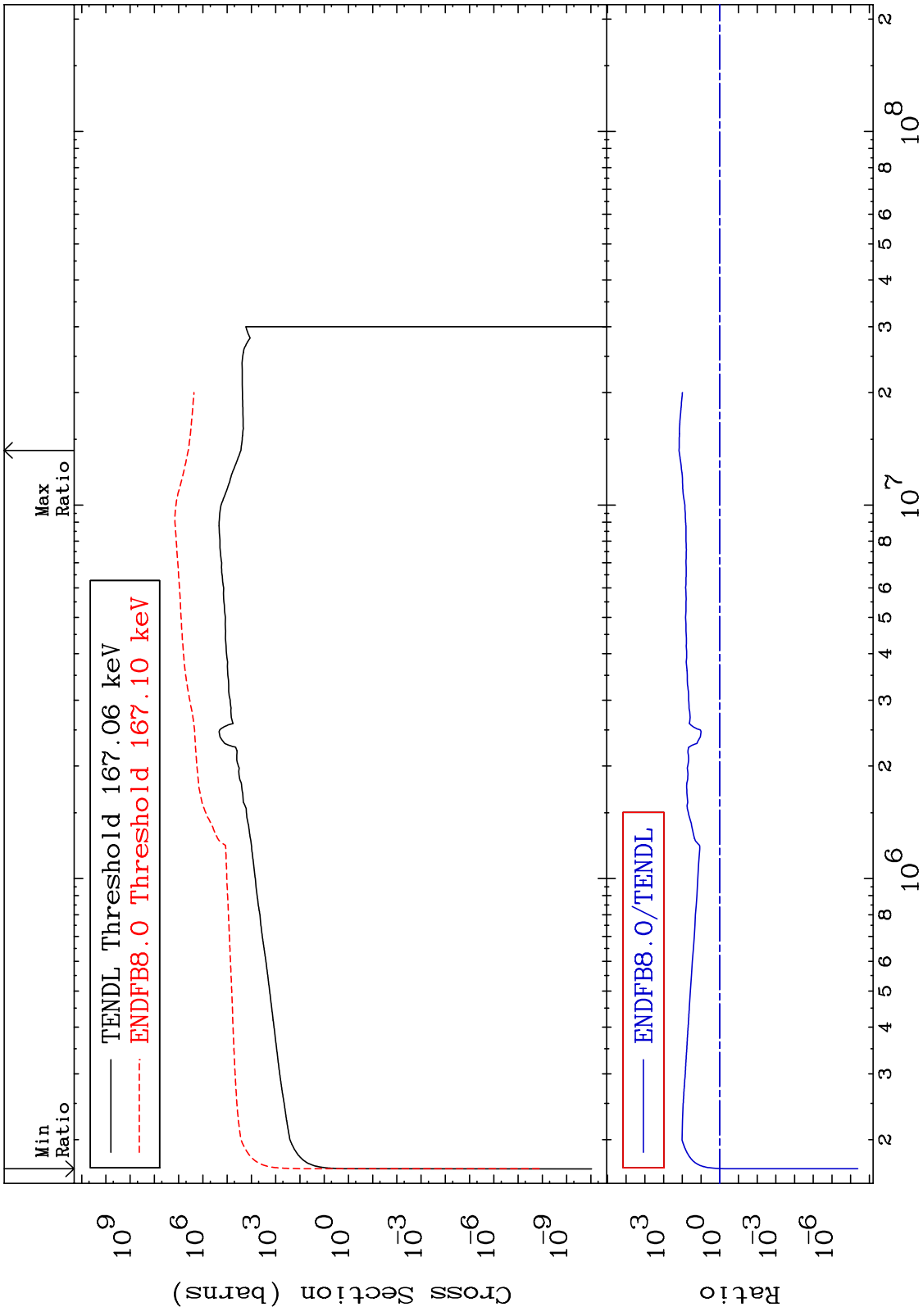
57-La-139
-99.40 To 1690. %



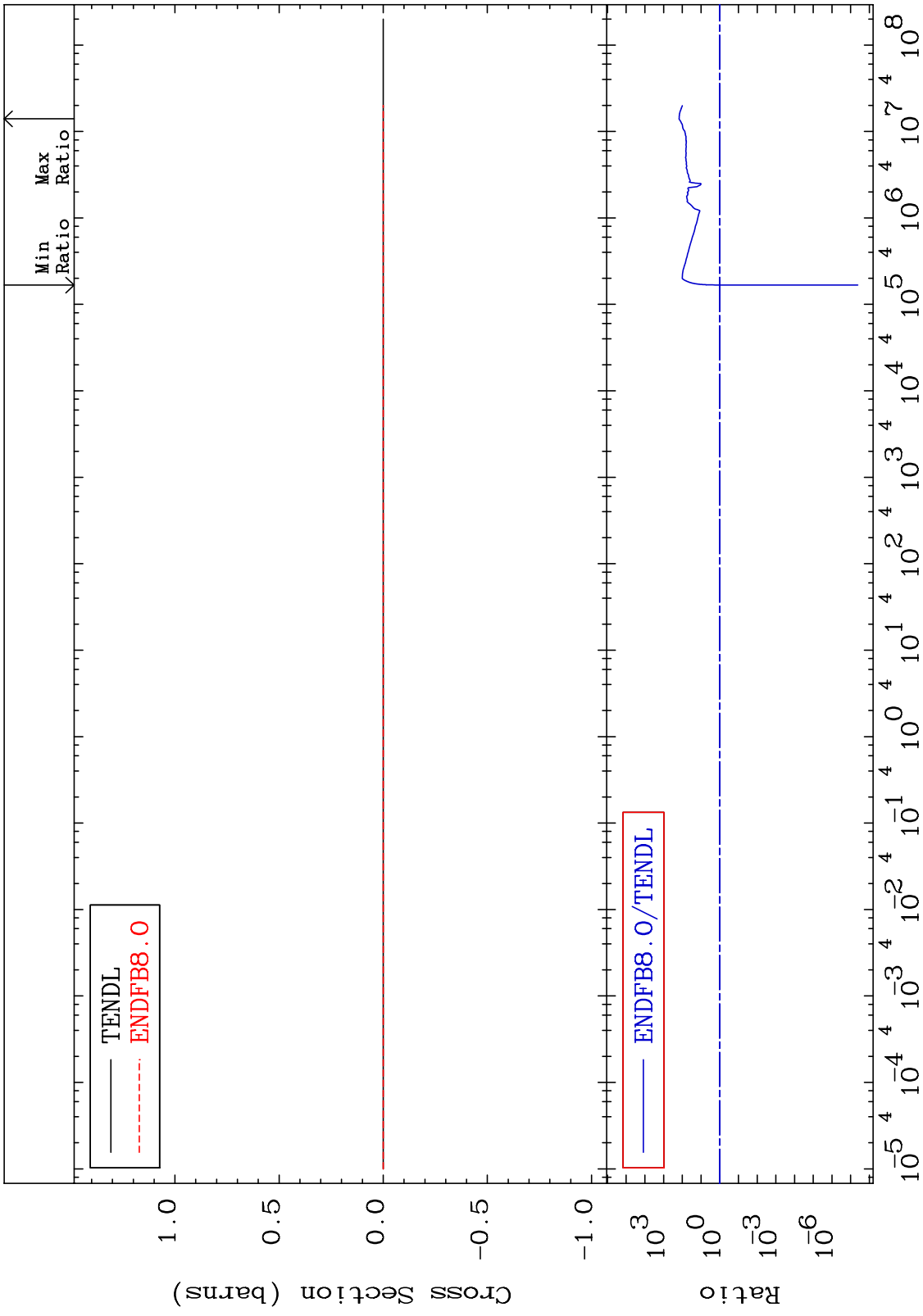
MAT 5728 Kerma non-elastic (all but mt2) 57-La-139
 Cross Section 751.8 To 9999. %



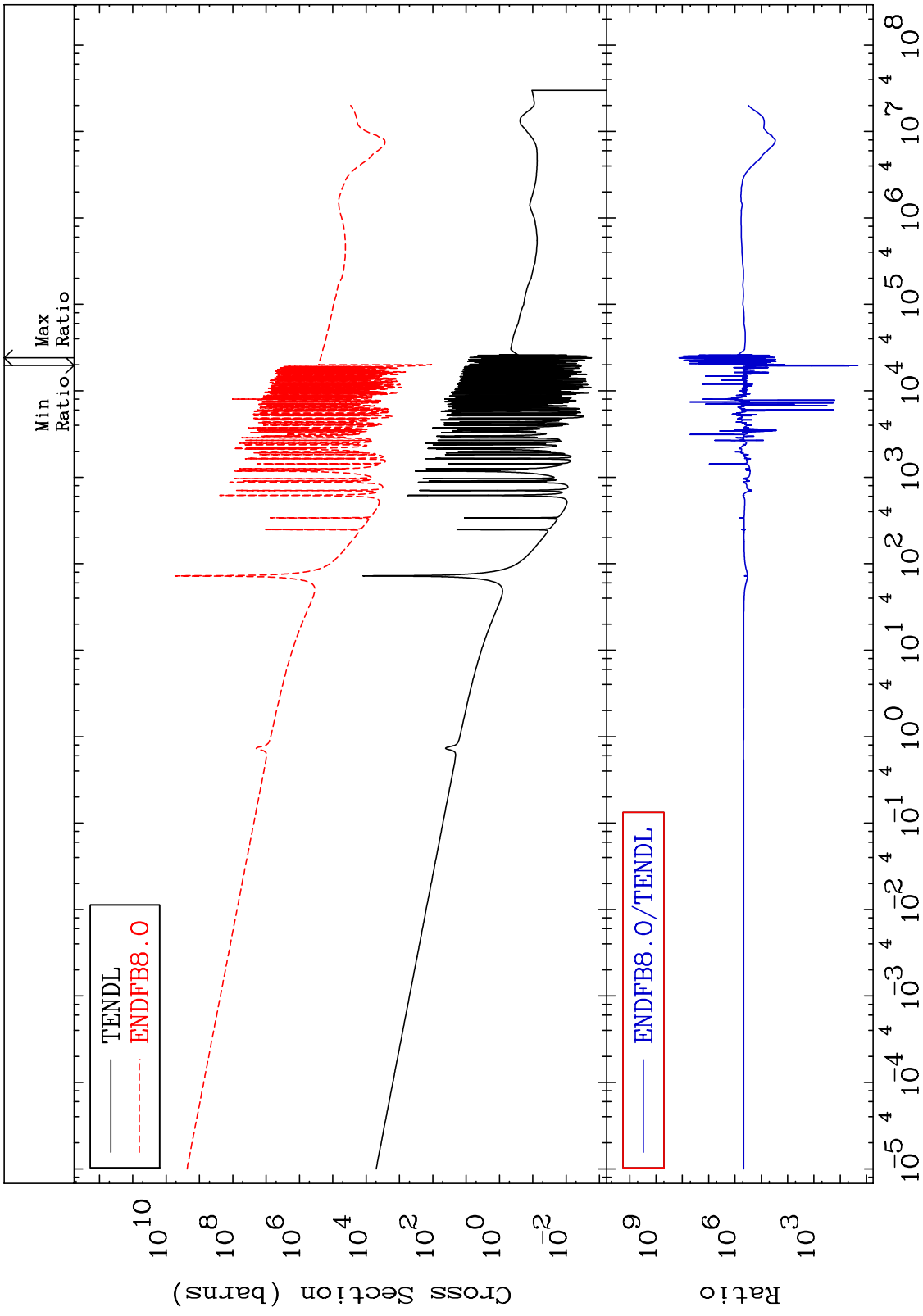
MAT 5728 Kerma inelastic (mt51-91) 57-La-139
 -100.0 To 9999. %
 Cross Section



MAT 5728 Kerma fission (mt18 or mt19-20-21-38) 57-La-139
 Cross Section -100.0 To 9999. %



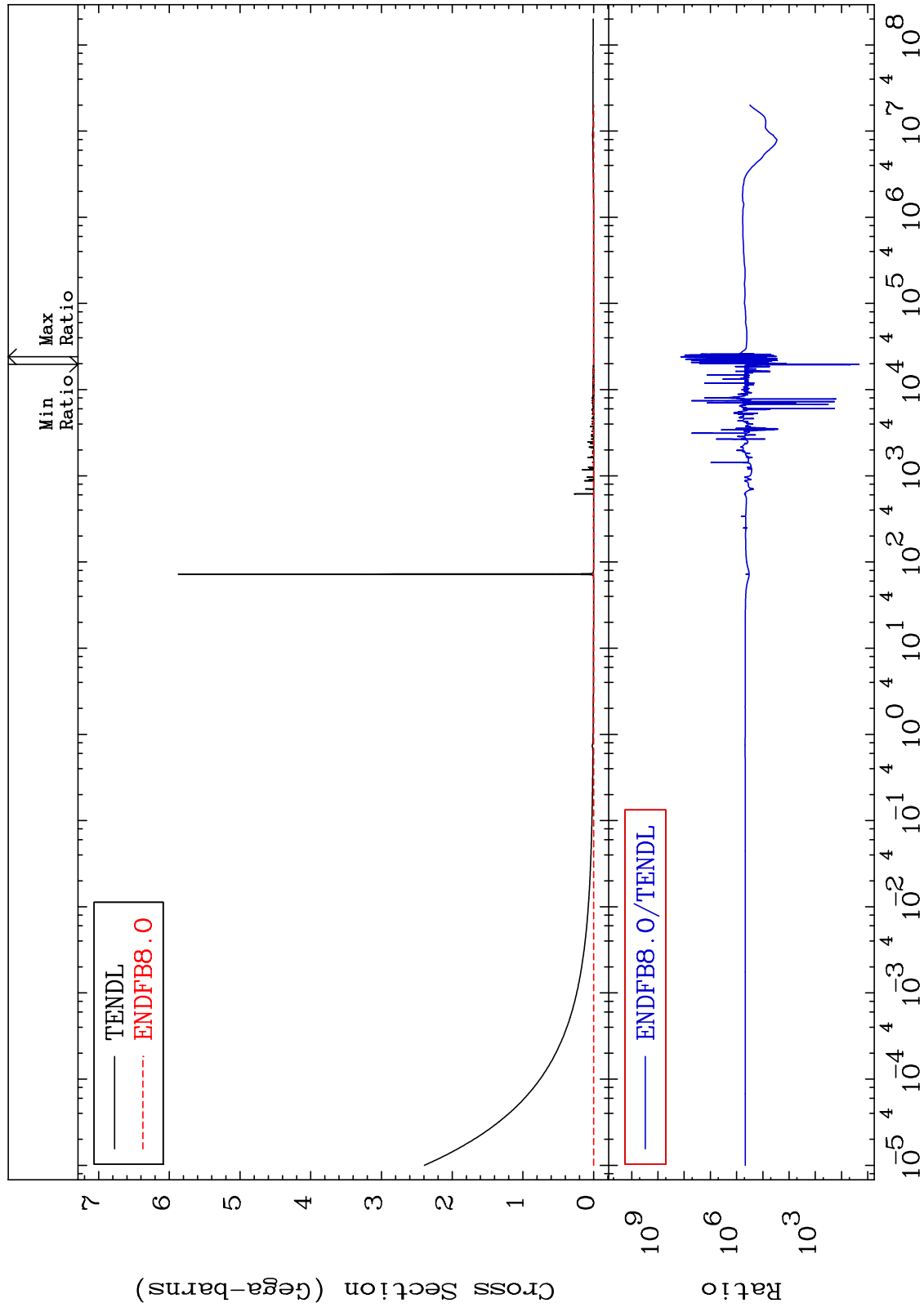
MAT 5728 Kerma capture (mt102) 57-La-139
 Cross Section 2047. To 9999. %



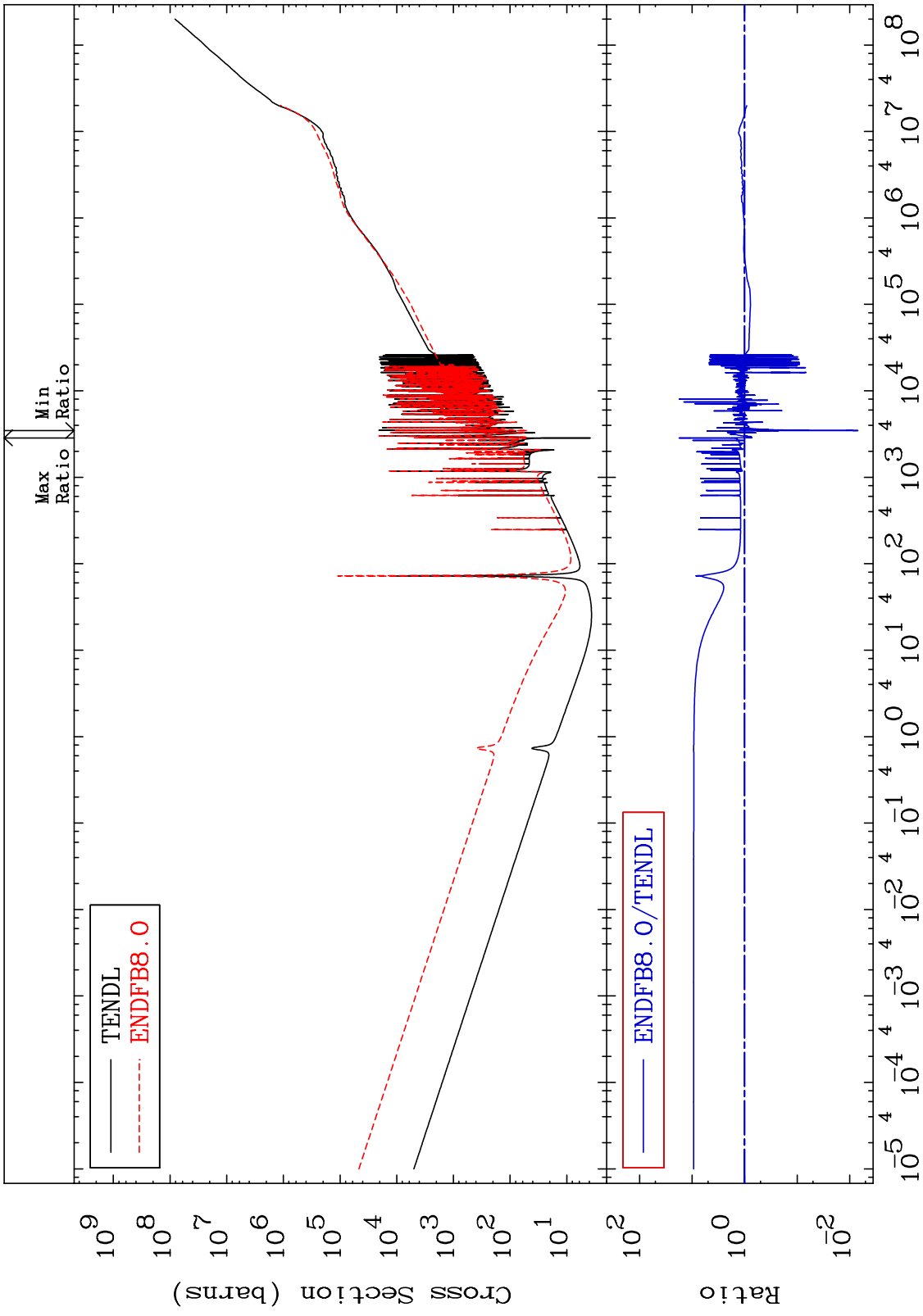
MAT 5728

Total photon (eV-barns)
Cross Section

57-La-139
2047. To 9999. %



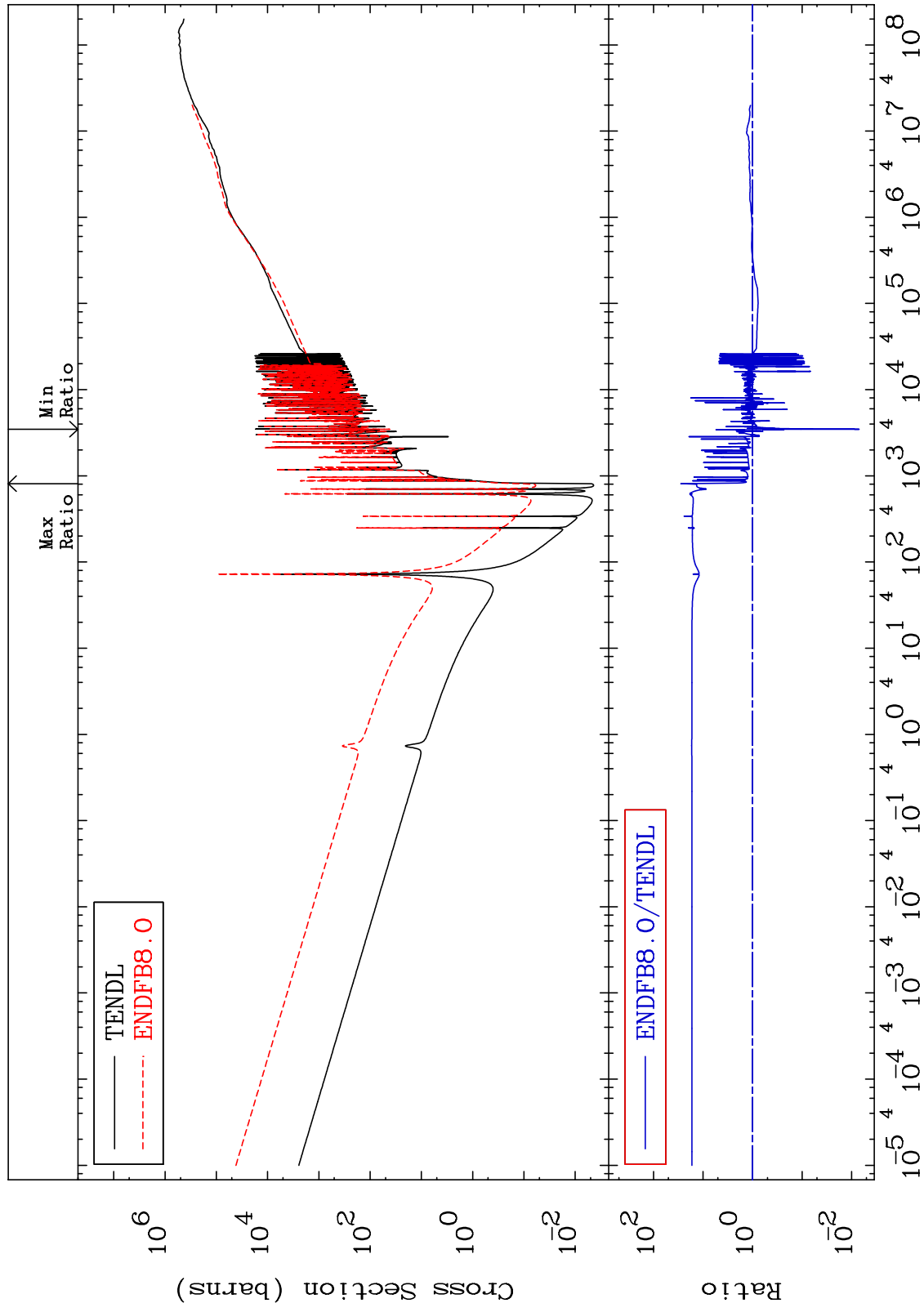
MAT 5728 Total kinematic kerma (high limit) 57-La-139
 Cross Section -99.30 To 1678. %



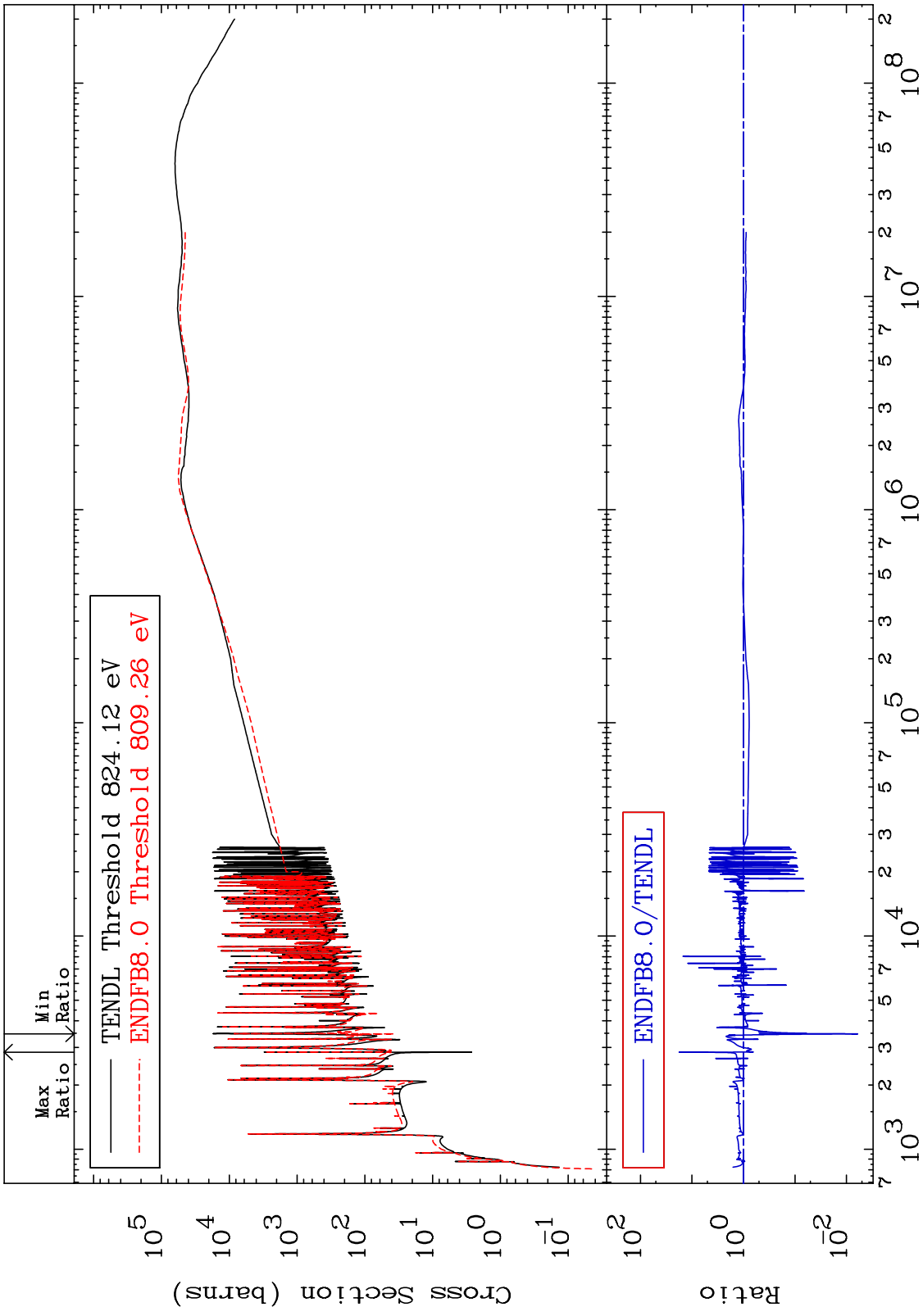
MAT 5728

Dpa total (eV-barns)
Cross Section

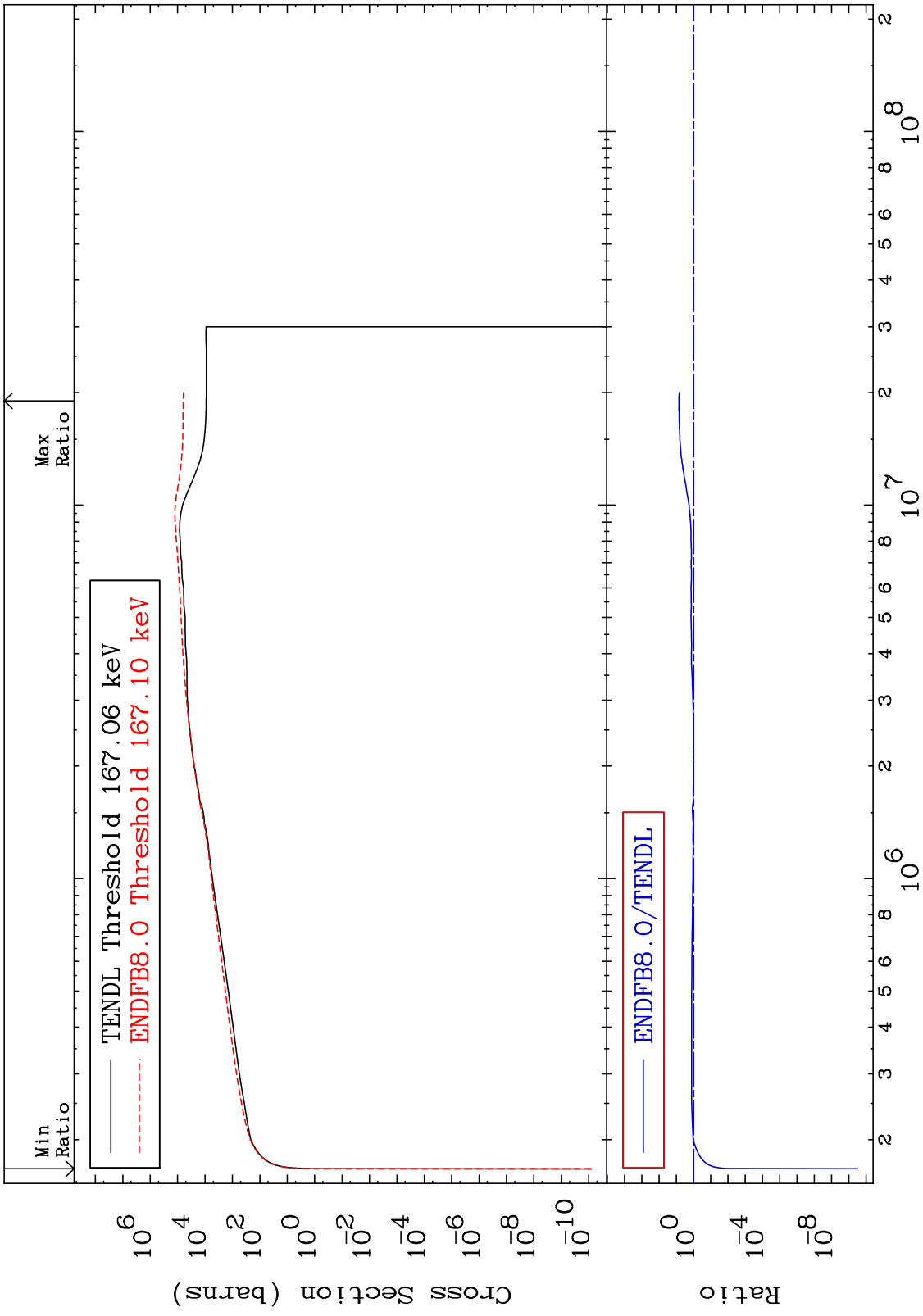
57-La-139
-99.29 To 2702. %



MAT 5728 Dpa elastic (mt2) 57-La-139
Cross Section -99.40 To 1678. %



MAT 5728 Dpa inelastic (mt51-91) 57-La-139
 Cross Section -100.0 To 589.6 %



MAT 5728 Dpa disappearance (mt102 -120) 57-La-139
 Cross Section -99.82 To 9999. %

