

Program Complot  
(Version 2018-1)

by

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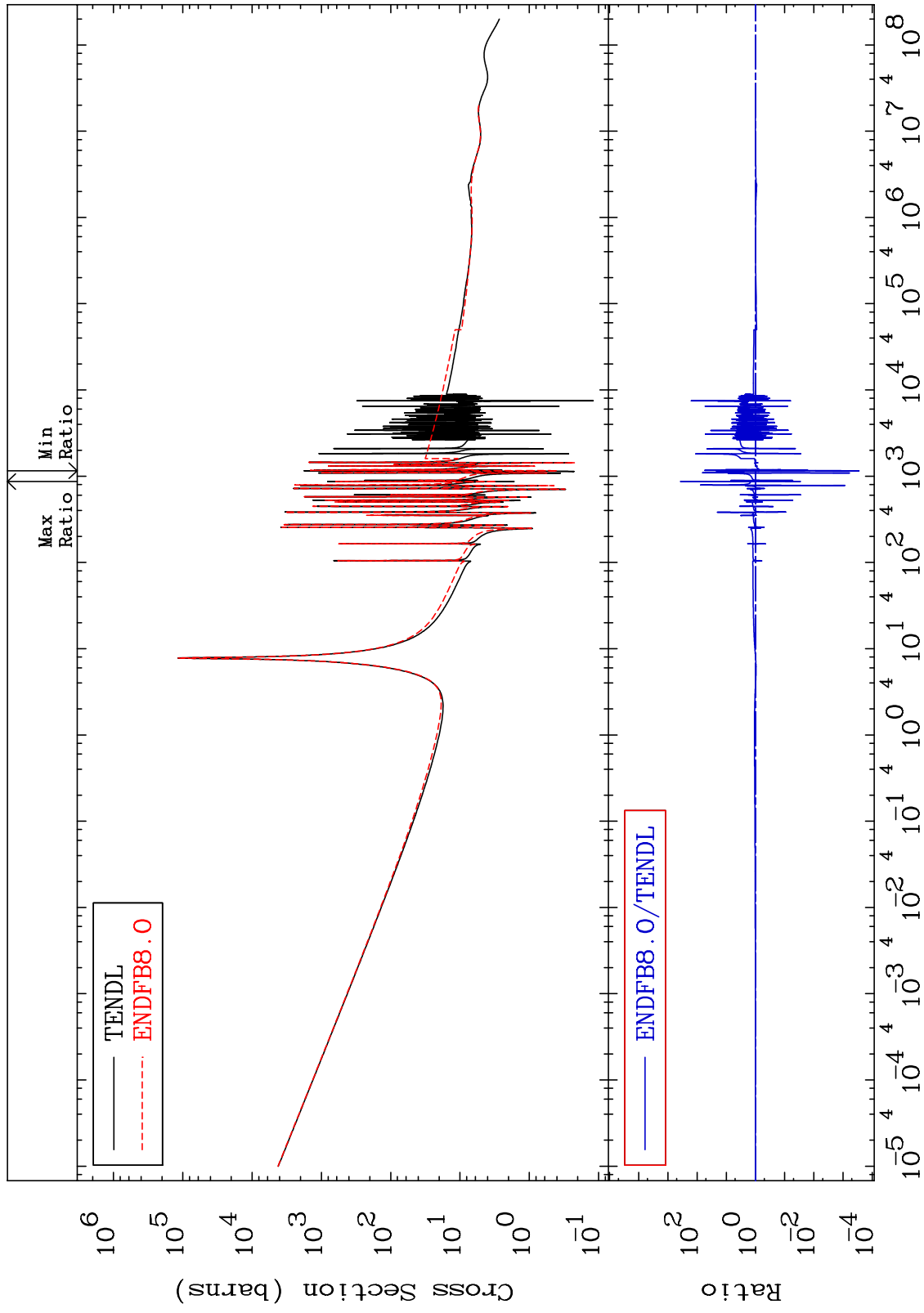
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 7237

Total  
Cross Section

72-Hf-178  
-99.97 To 9999. %



Incident Energy (eV)

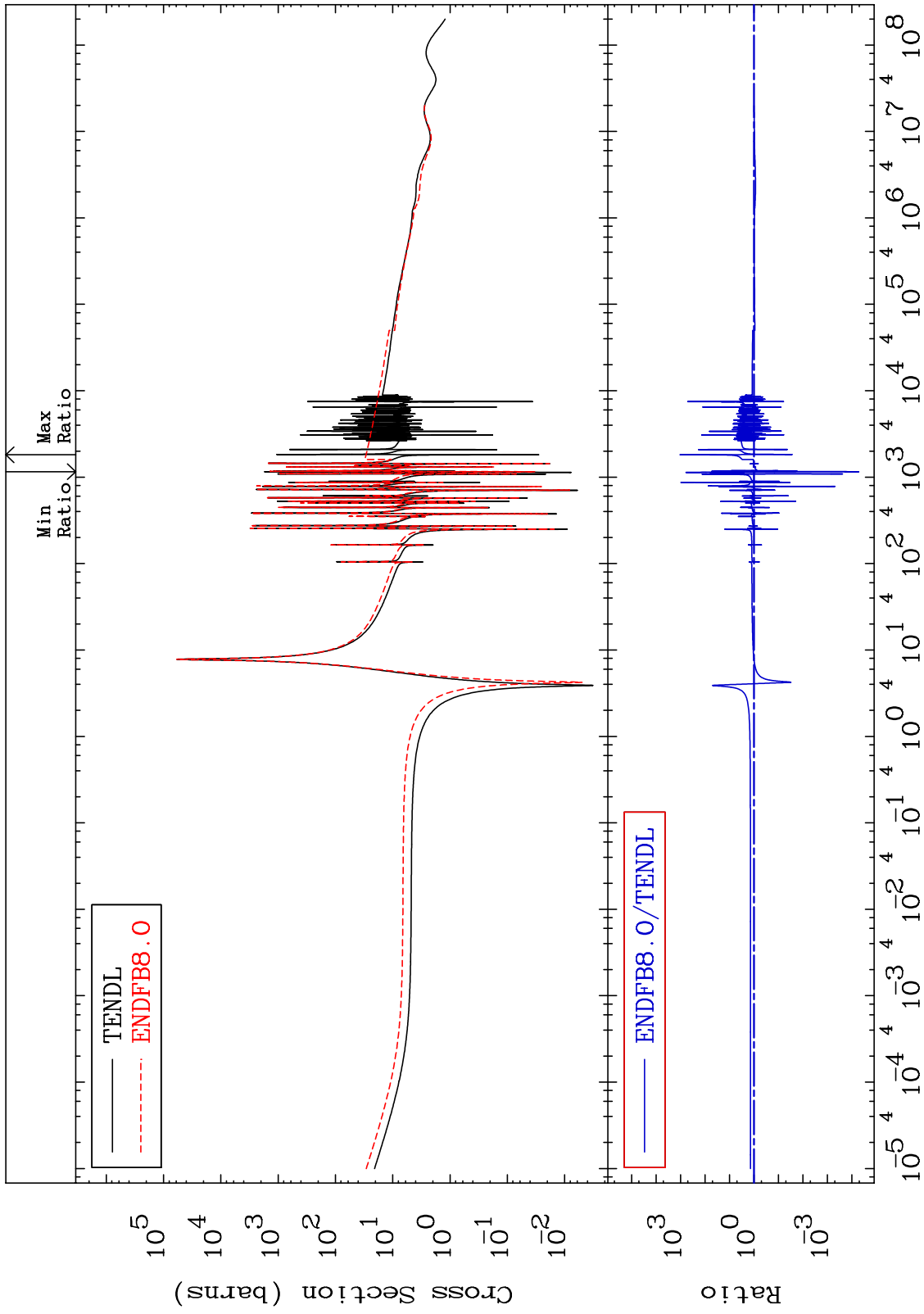
72-Hf-178

1

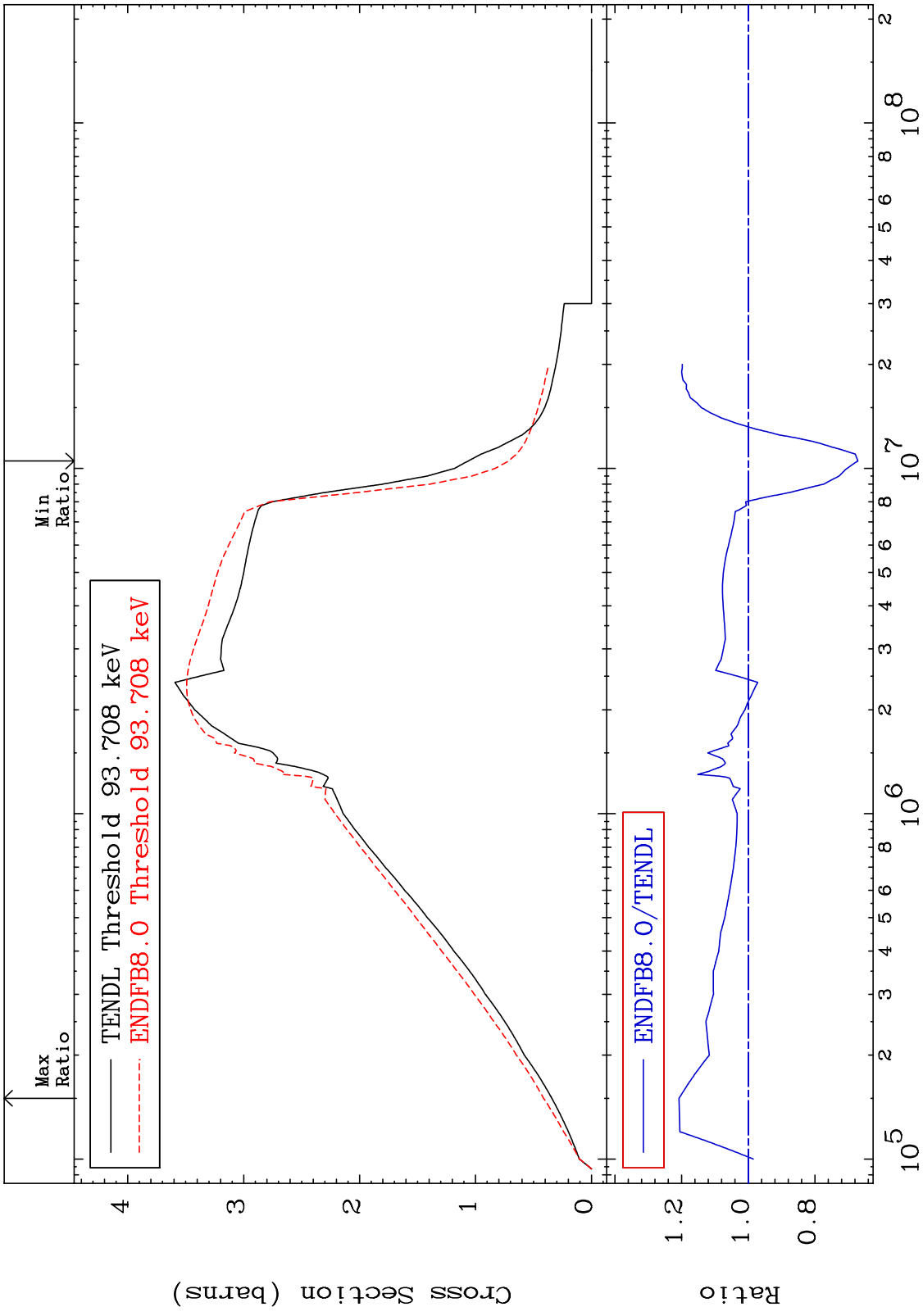
MAT 7237

Elastic  
Cross Section

72-Hf-178  
-99.99 To 9999. %

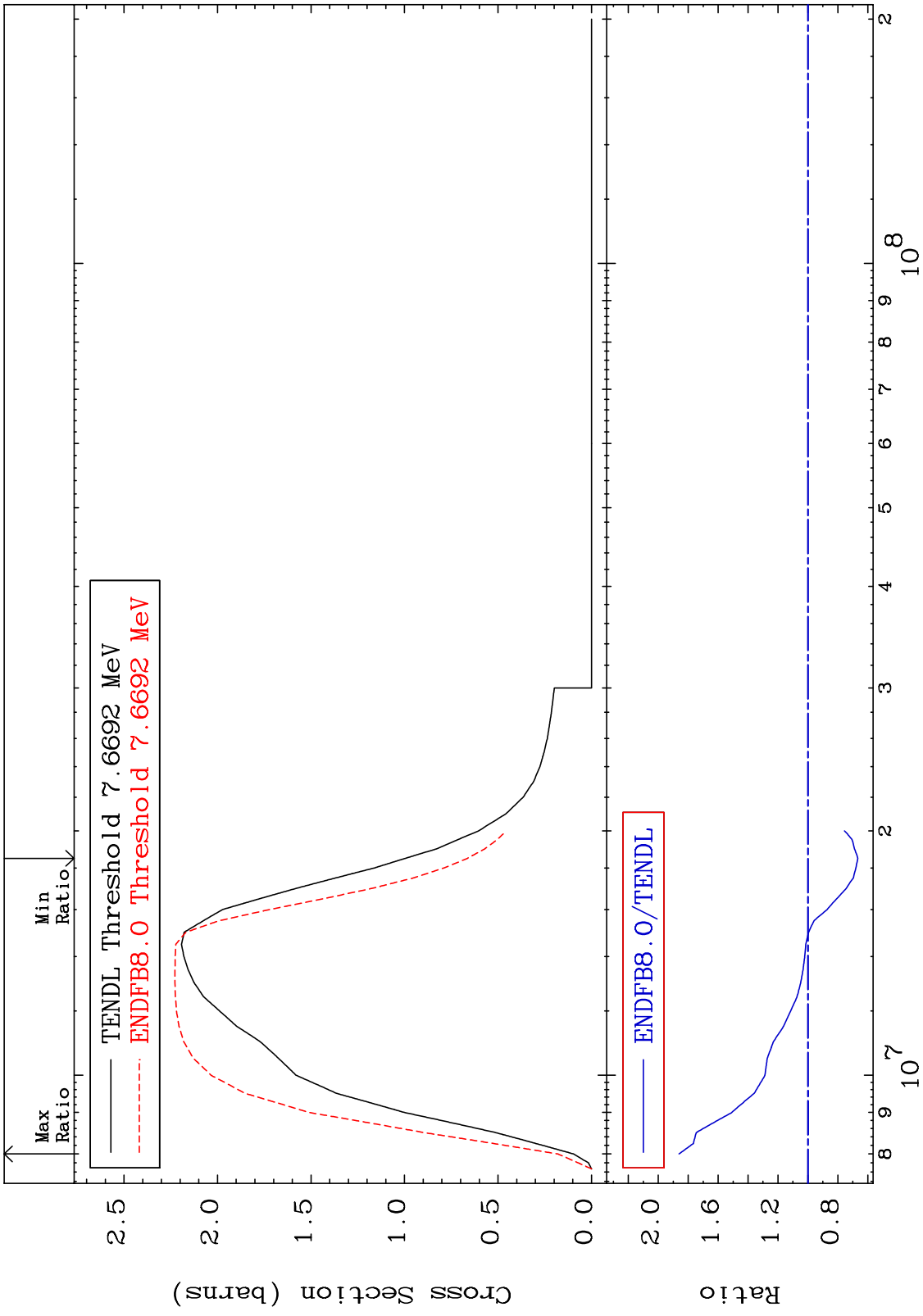


MAT 7237 Inelastic Cross Section 72-Hf-178 -32.88 To 20.77 %

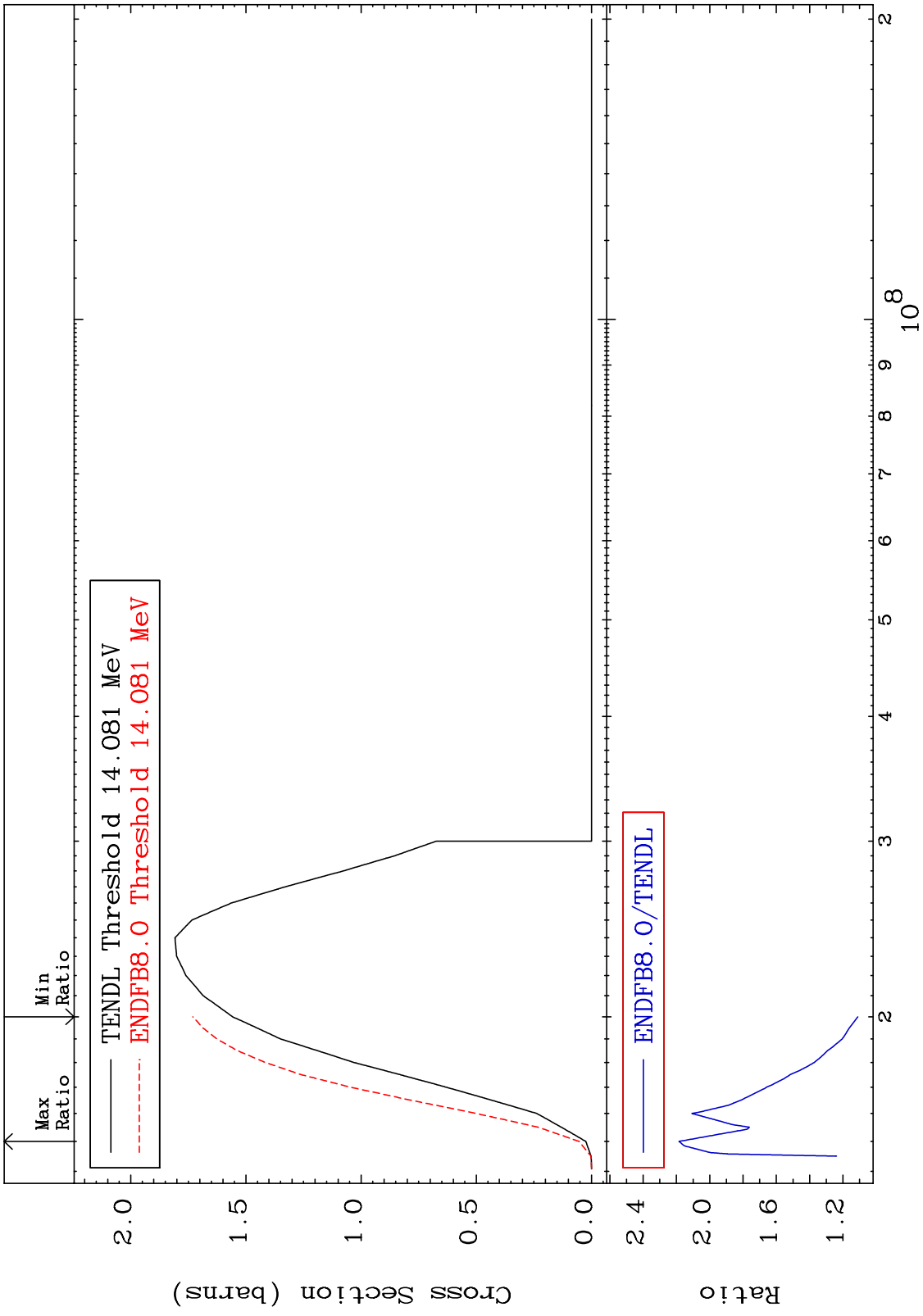


3 Incident Energy (eV) 72-Hf-178

MAT 7237 (n,2n) Cross Section 72-Hf-178 -33.34 To 86.10 %



MAT 7237 (n,3n) Cross Section 72-Hf-178 To 118.4 %



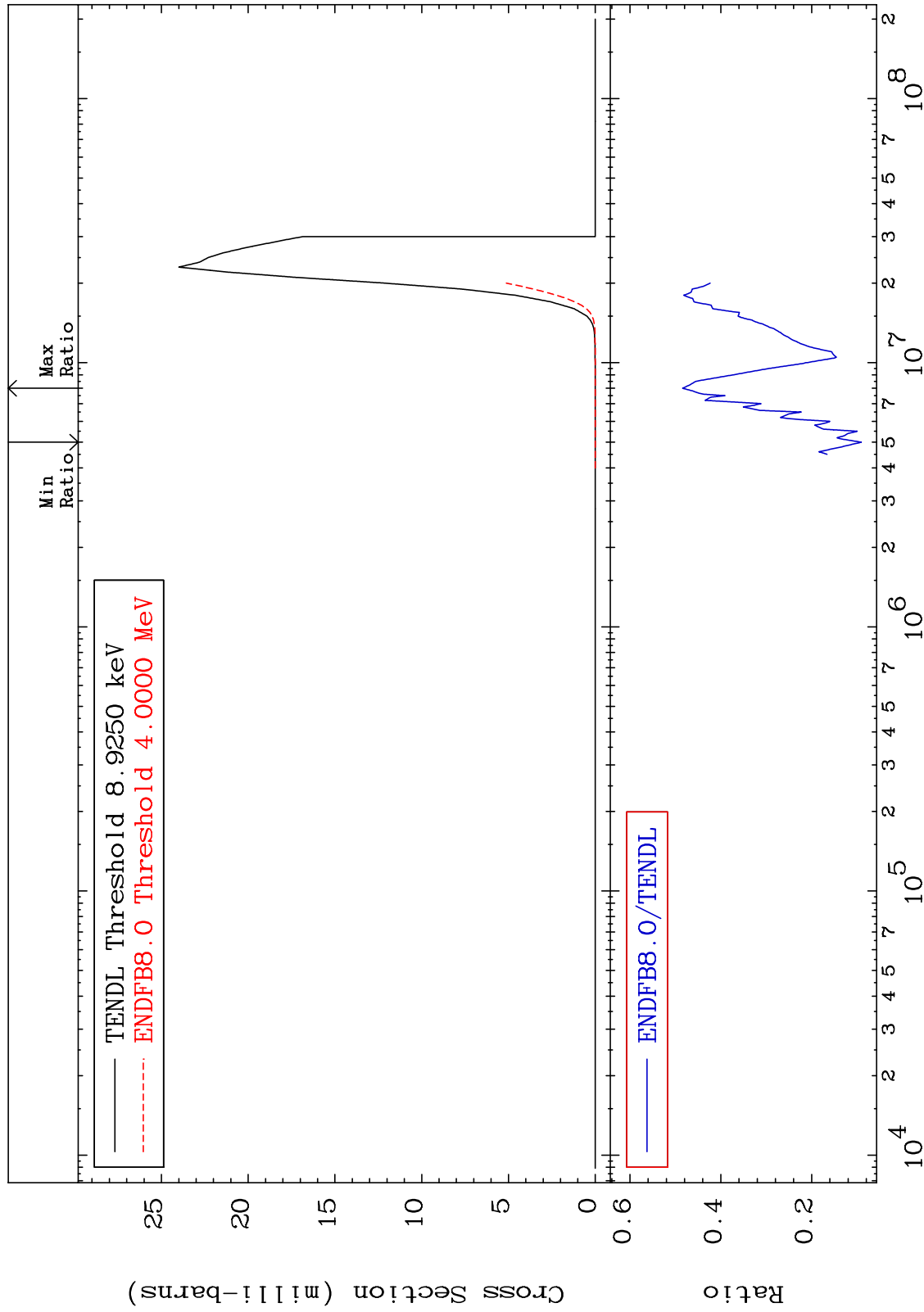
MAT 7237

(n, n')  $\alpha$

72-Hf-178

Cross Section

-90.92 To -51.59%

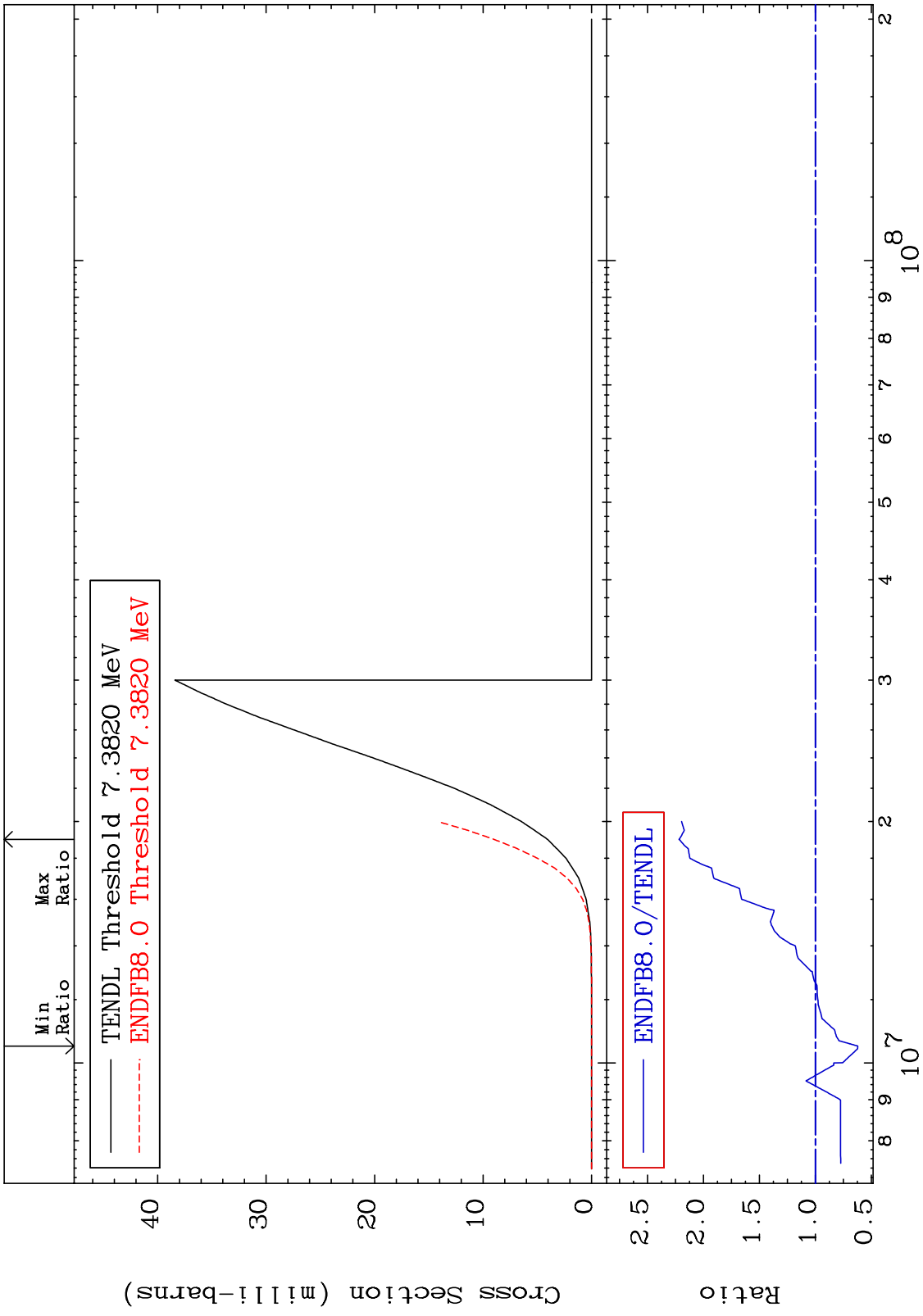


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Incident Energy (eV)

72-Hf-178

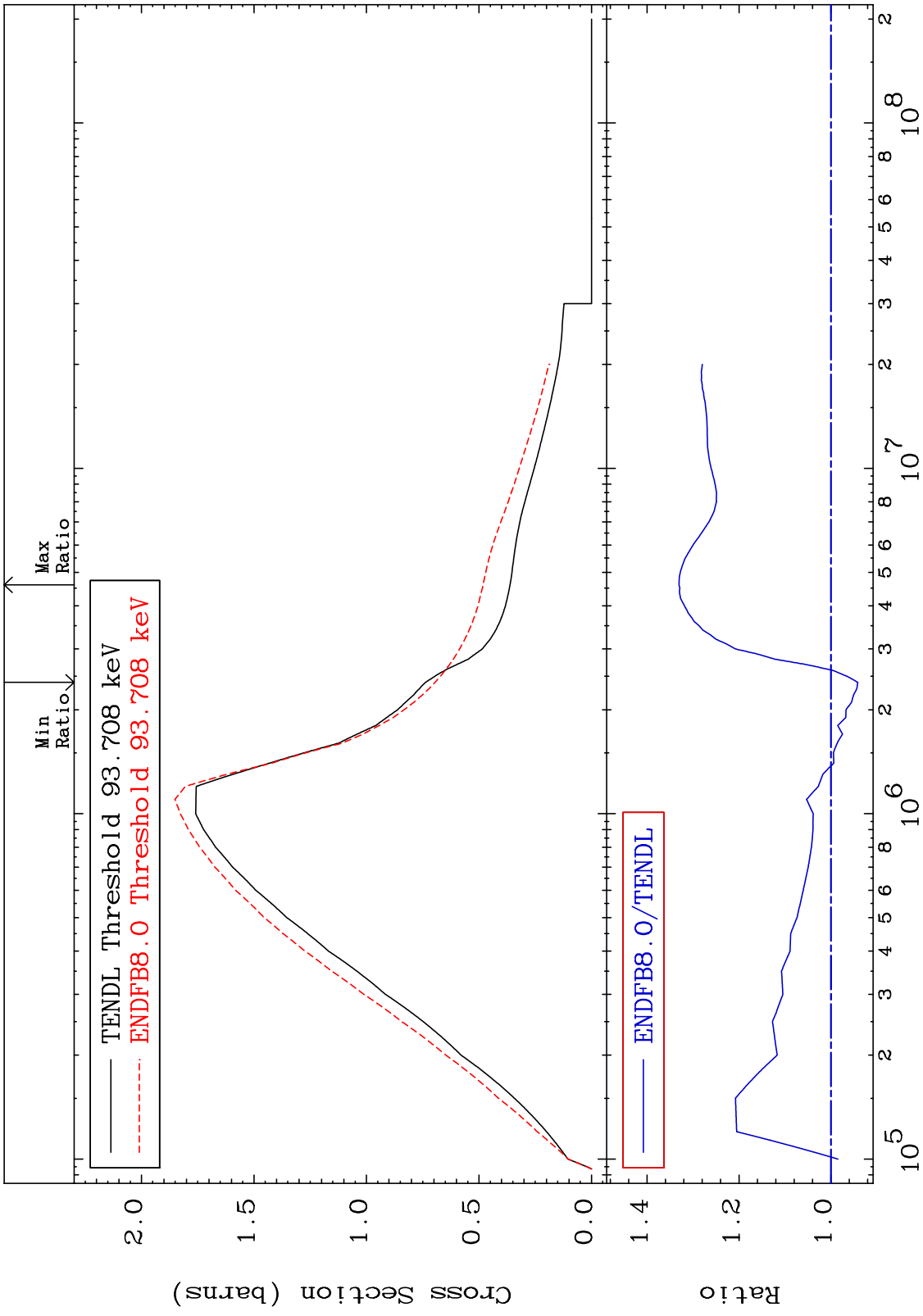
MAT 7237 (n,n') p 72-Hf-178  
 Cross Section -37.92 To 121.8 %



7 72-Hf-178

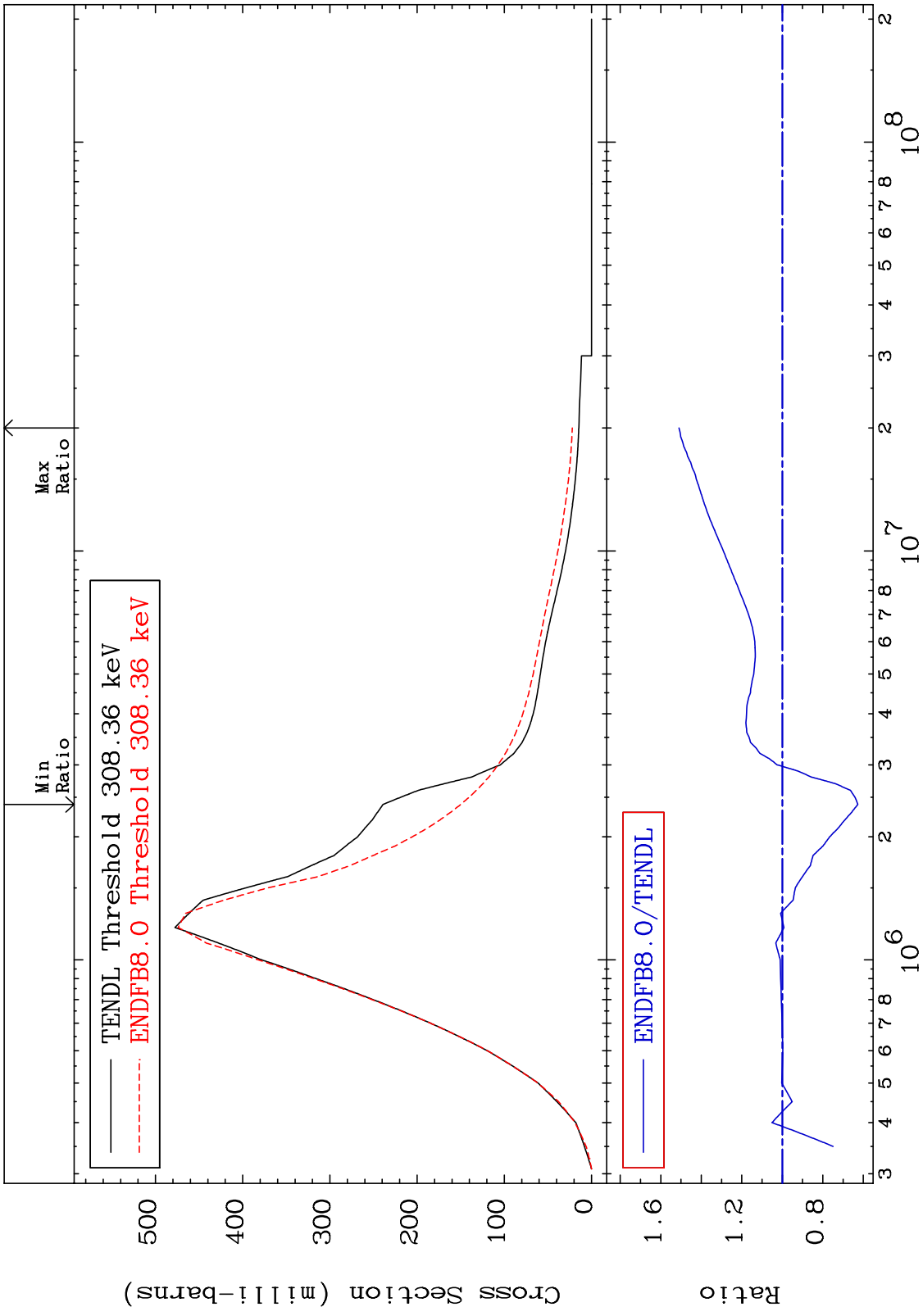


MAT 7237 MT= 51 (n,n') Level Cross Section 72-Hf-178  
 -5.856 To 33.04 %



8 Incident Energy (eV) 72-Hf-178

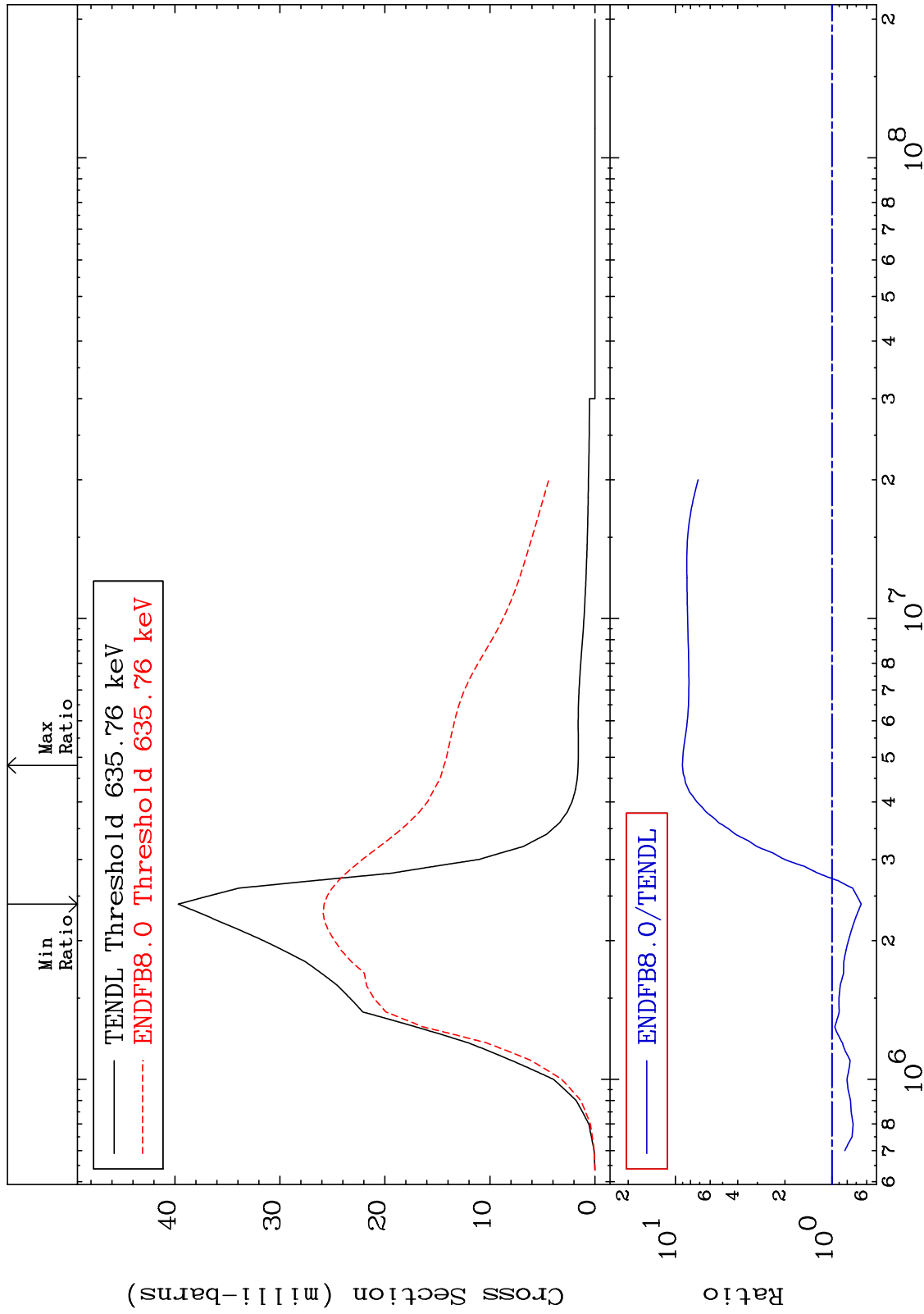
MAT 7237 MT= 52 (n,n') Level Cross Section 72-Hf-178  
 -37.28 To 50.96 %



MAT 7237

MT= 53 (n,n') Level  
Cross Section

72-Hf-178  
-35.00 To 801.5 %



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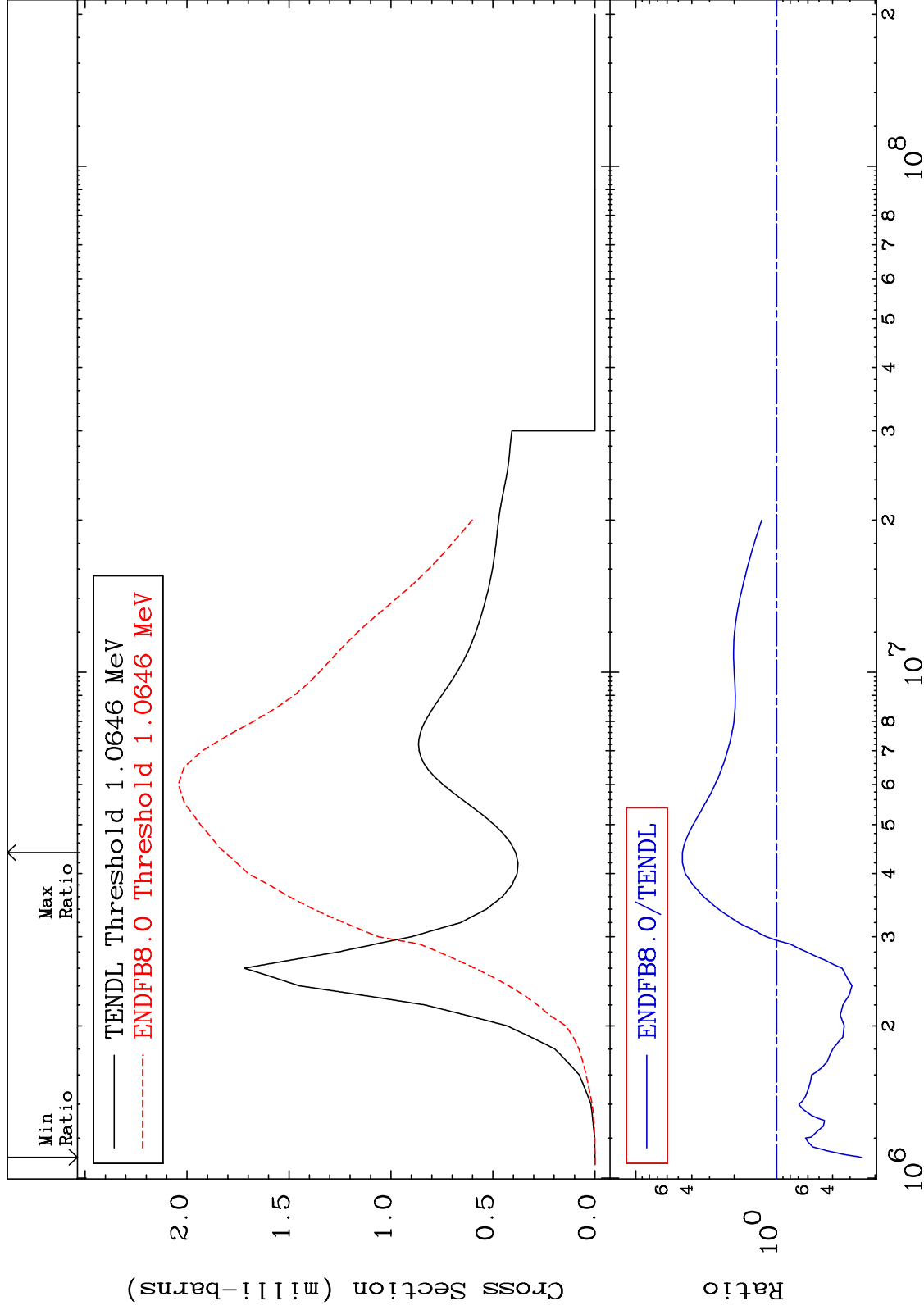
Incident Energy (eV)

72-Hf-178

MAT 7237

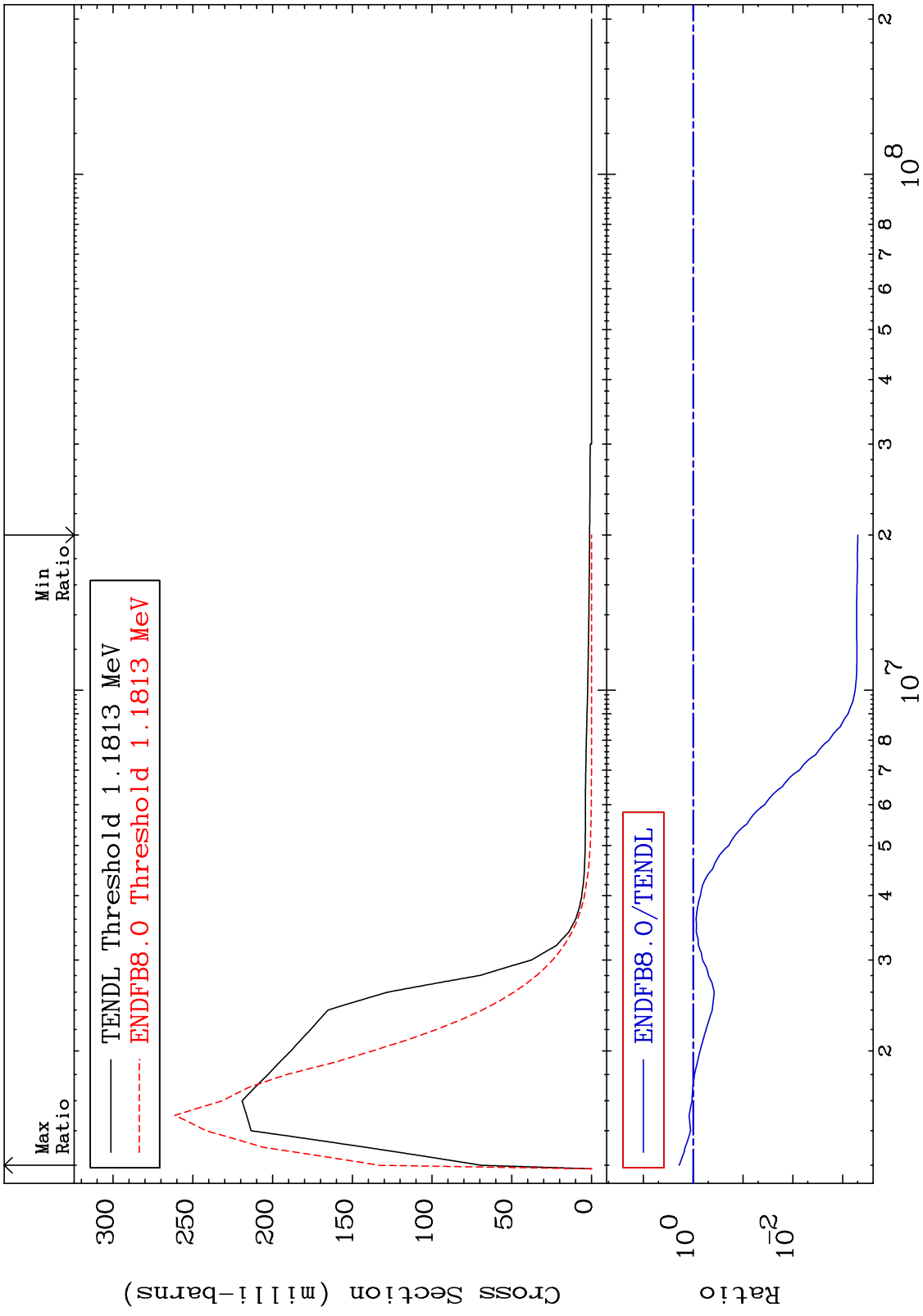
MT= 54 (n,n') Level  
Cross Section

72-Hf-178  
-74.99 To 366.3 %





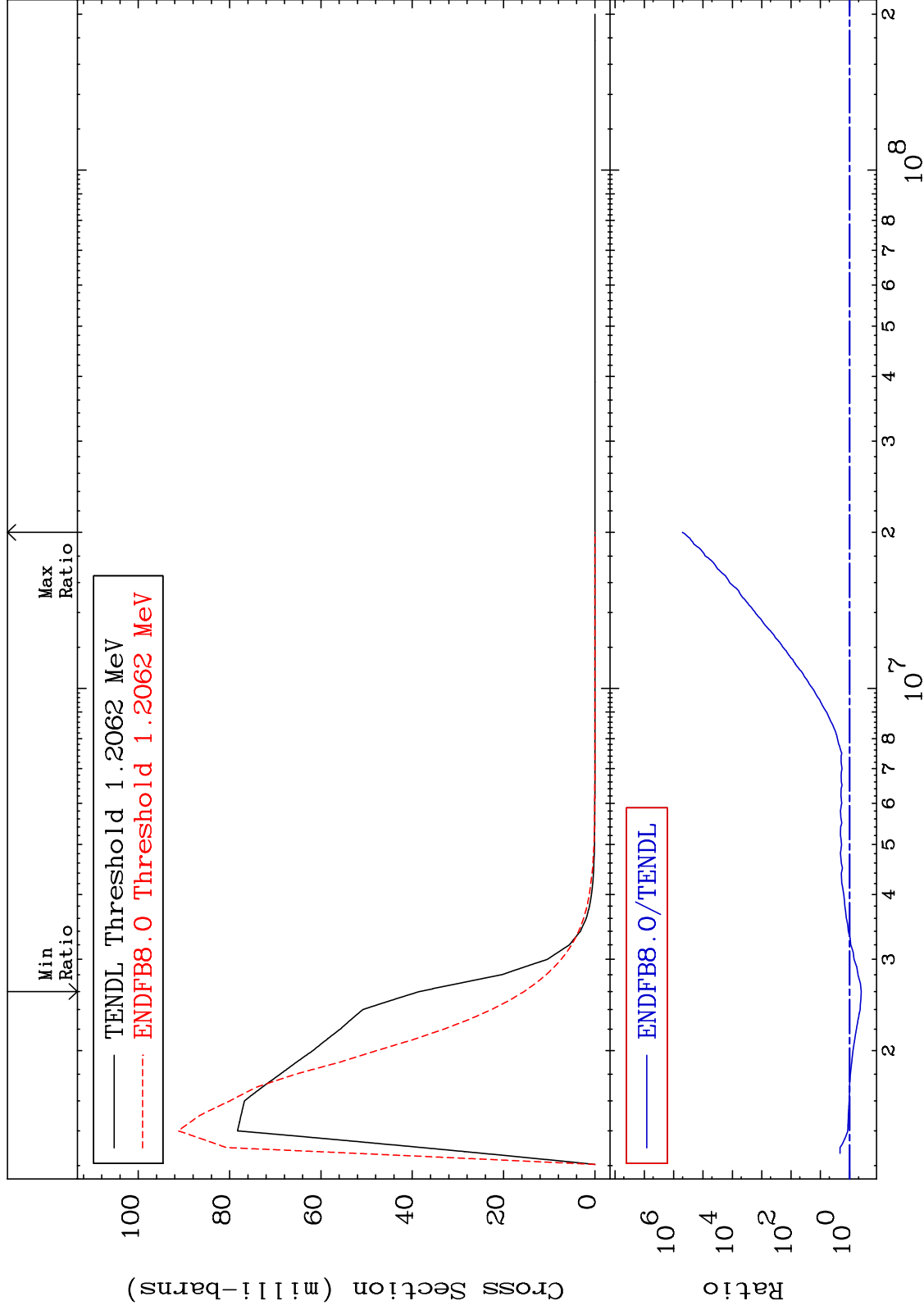
MAT 7237 MT= 56 (n,n') Level Cross Section 72-Hf-178 -99.95 To 92.30 %



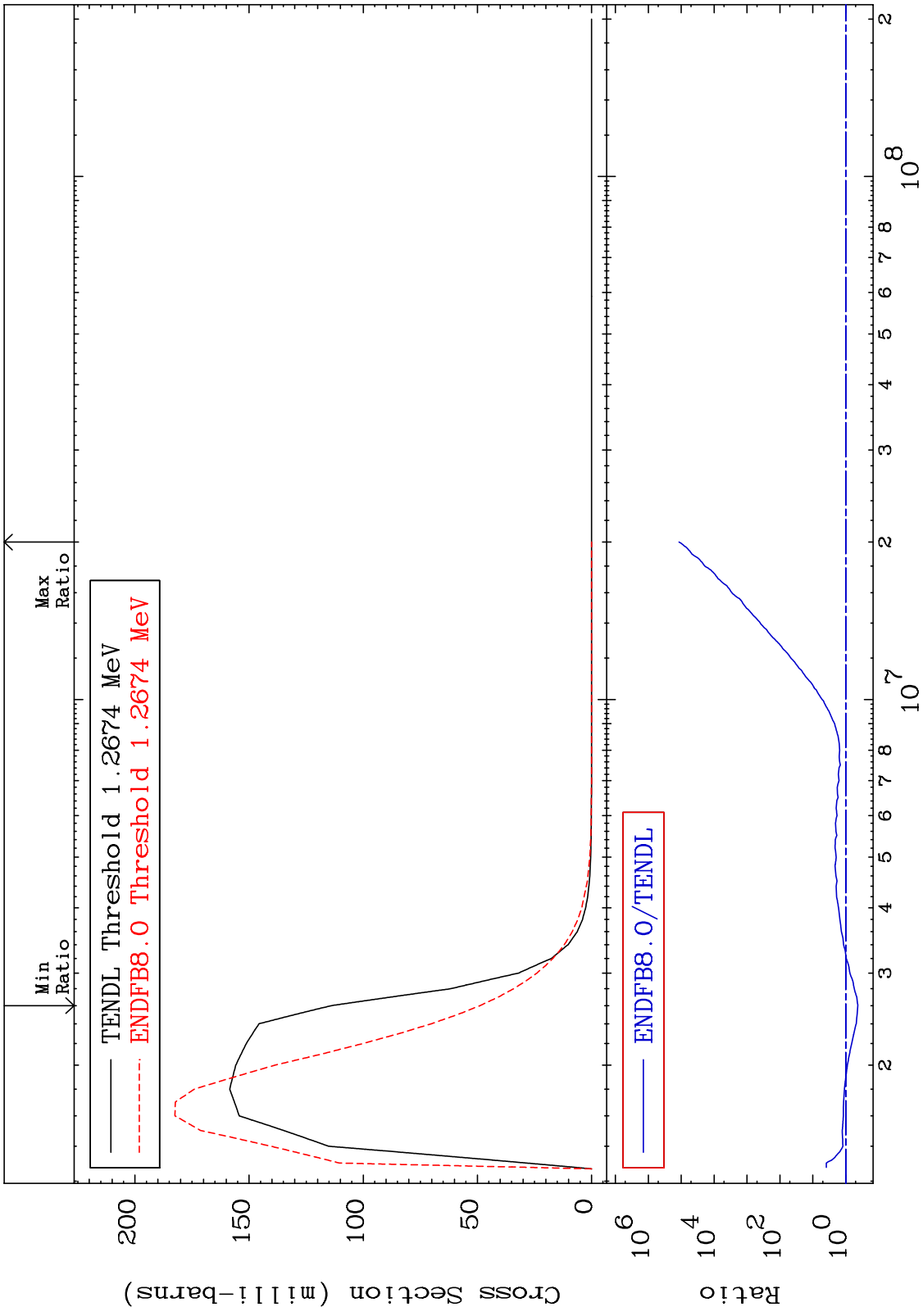
MAT 7237

MT= 57 (n,n') Level  
Cross Section

72-Hf-178  
-59.61 To 9999. %



MAT 7237 MT= 58 (n,n') Level Cross Section 72-Hf-178  
 -57.13 To 9999. %

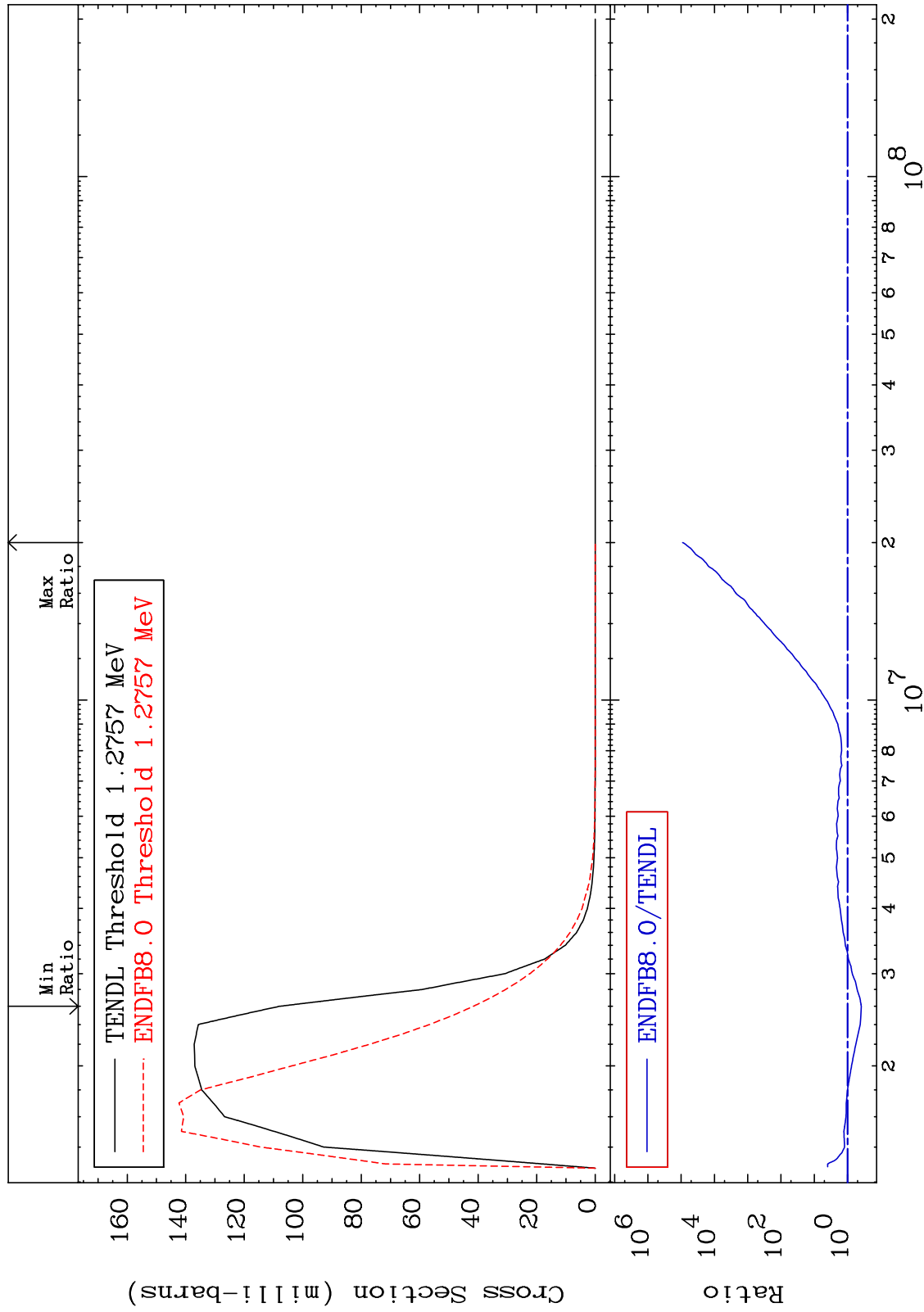




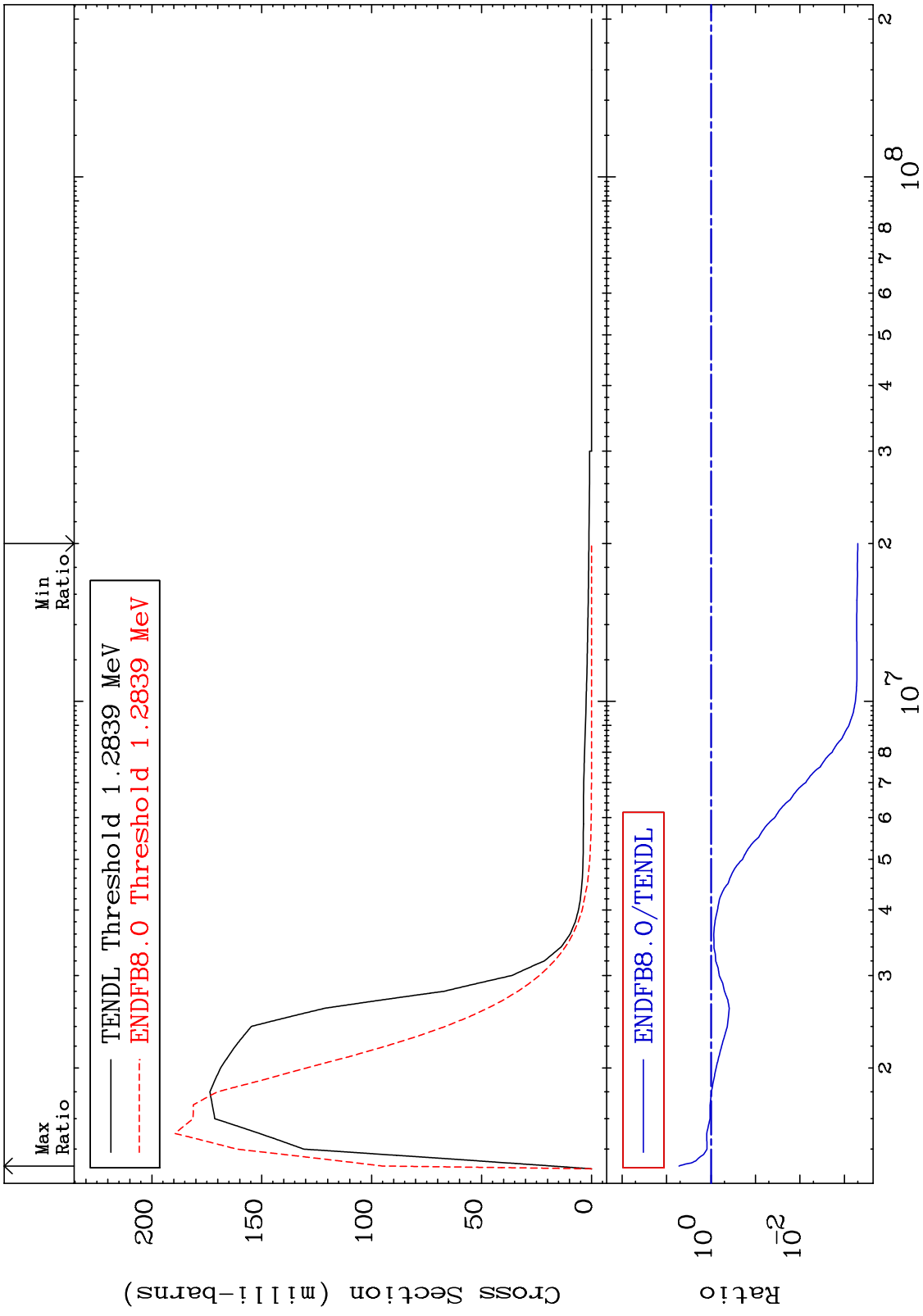
MAT 7237

MT= 59 (n,n') Level  
Cross Section

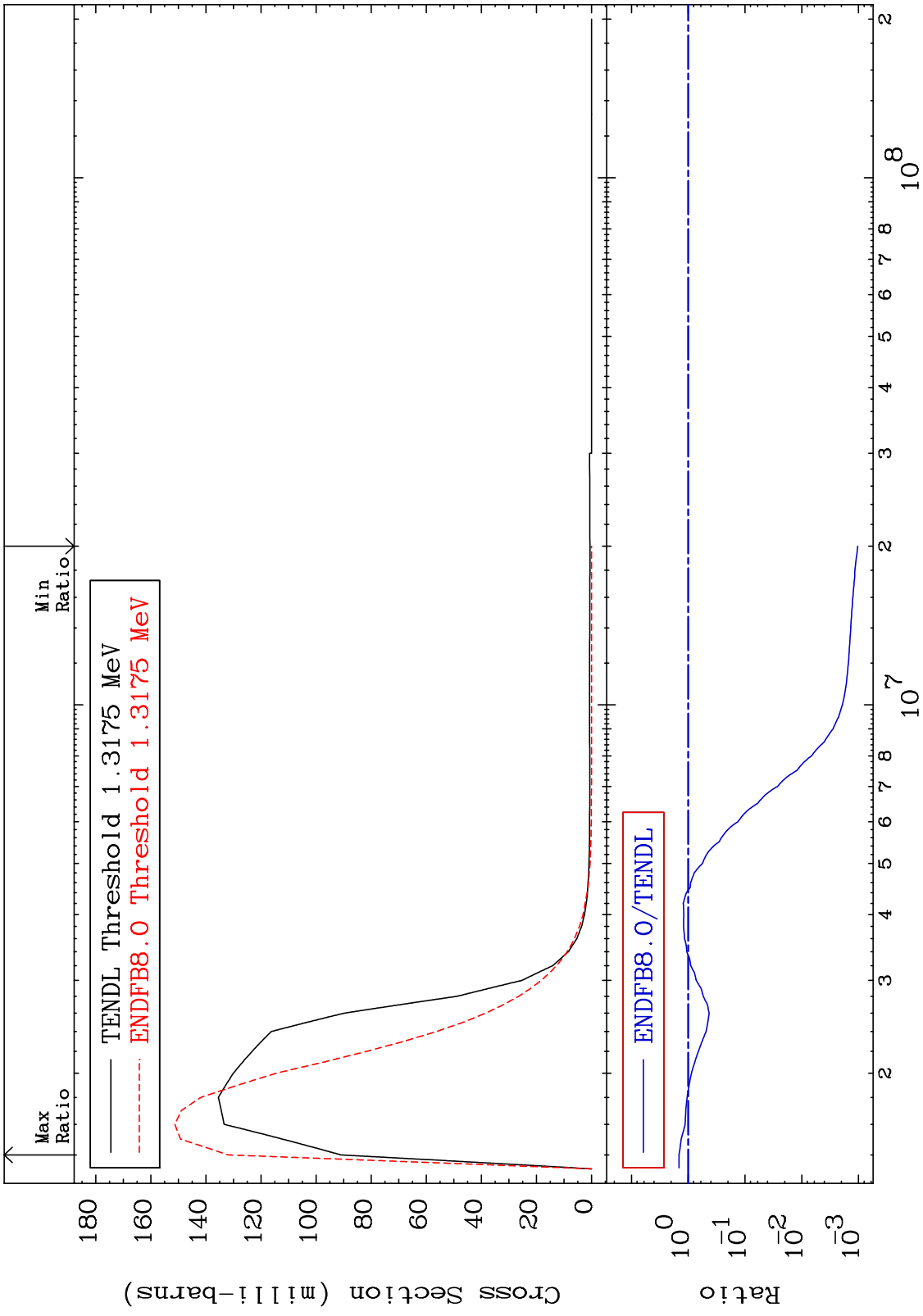
72-Hf-178  
-61.44 To 9999. %



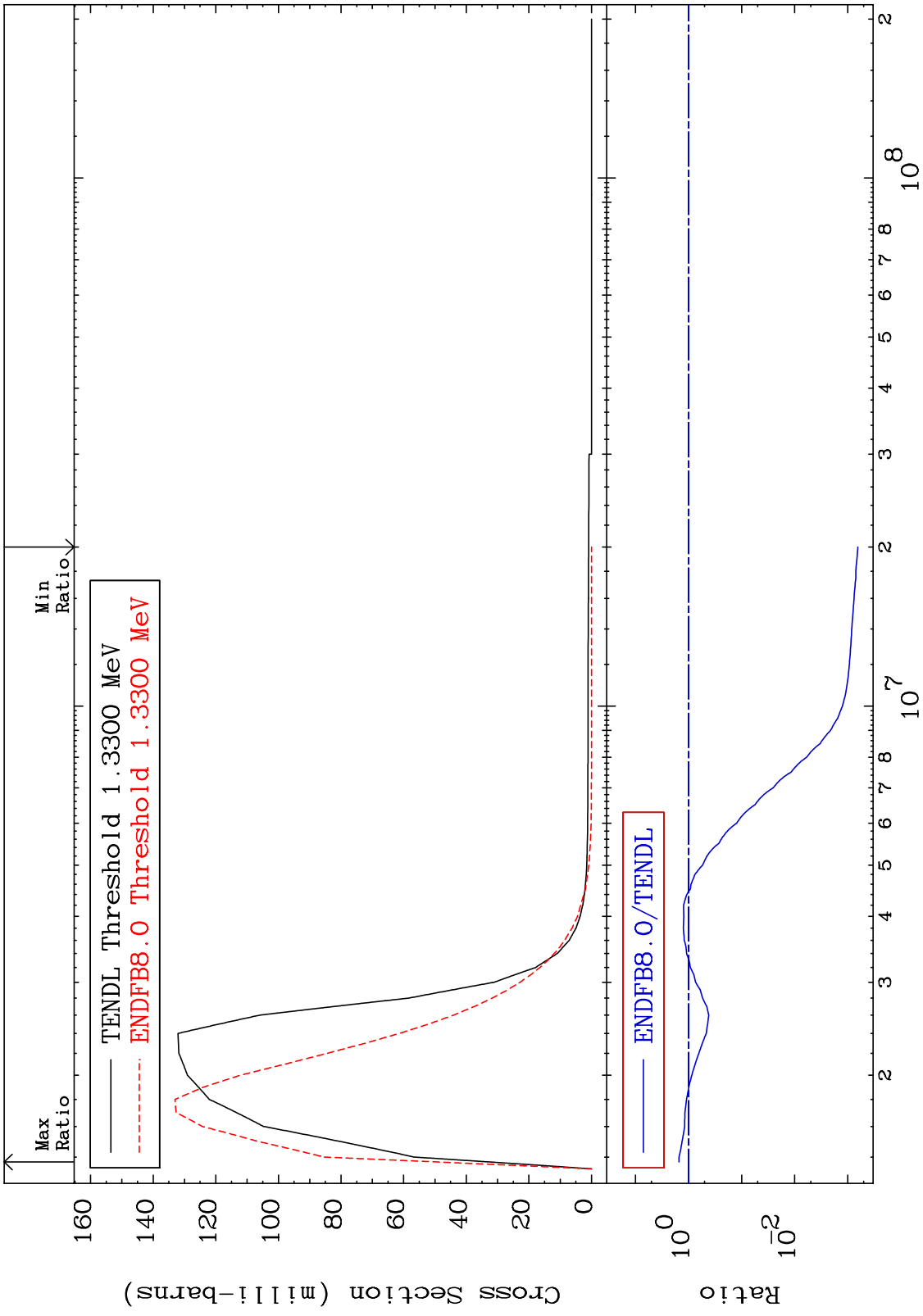
MAT 7237 MT= 60 (n,n') Level Cross Section 72-Hf-178 -99.95 To 425.4 %



MAT 7237 MT= 61 (n,n') Level Cross Section 72-Hf-178 -99.90 To 45.12 %



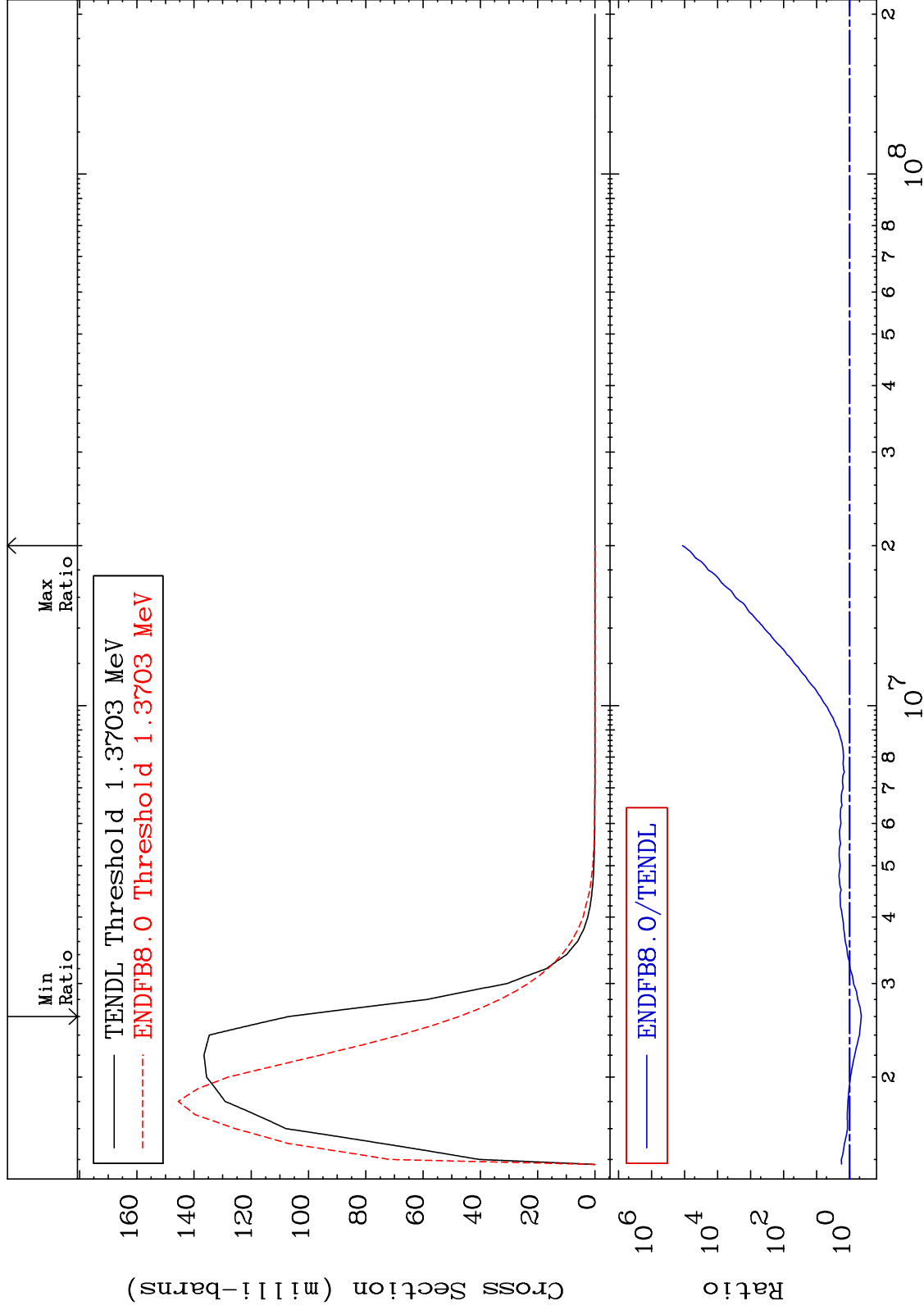
MAT 7237 MT= 62 (n,n') Level Cross Section 72-Hf-178 -99.94 To 50.91 %



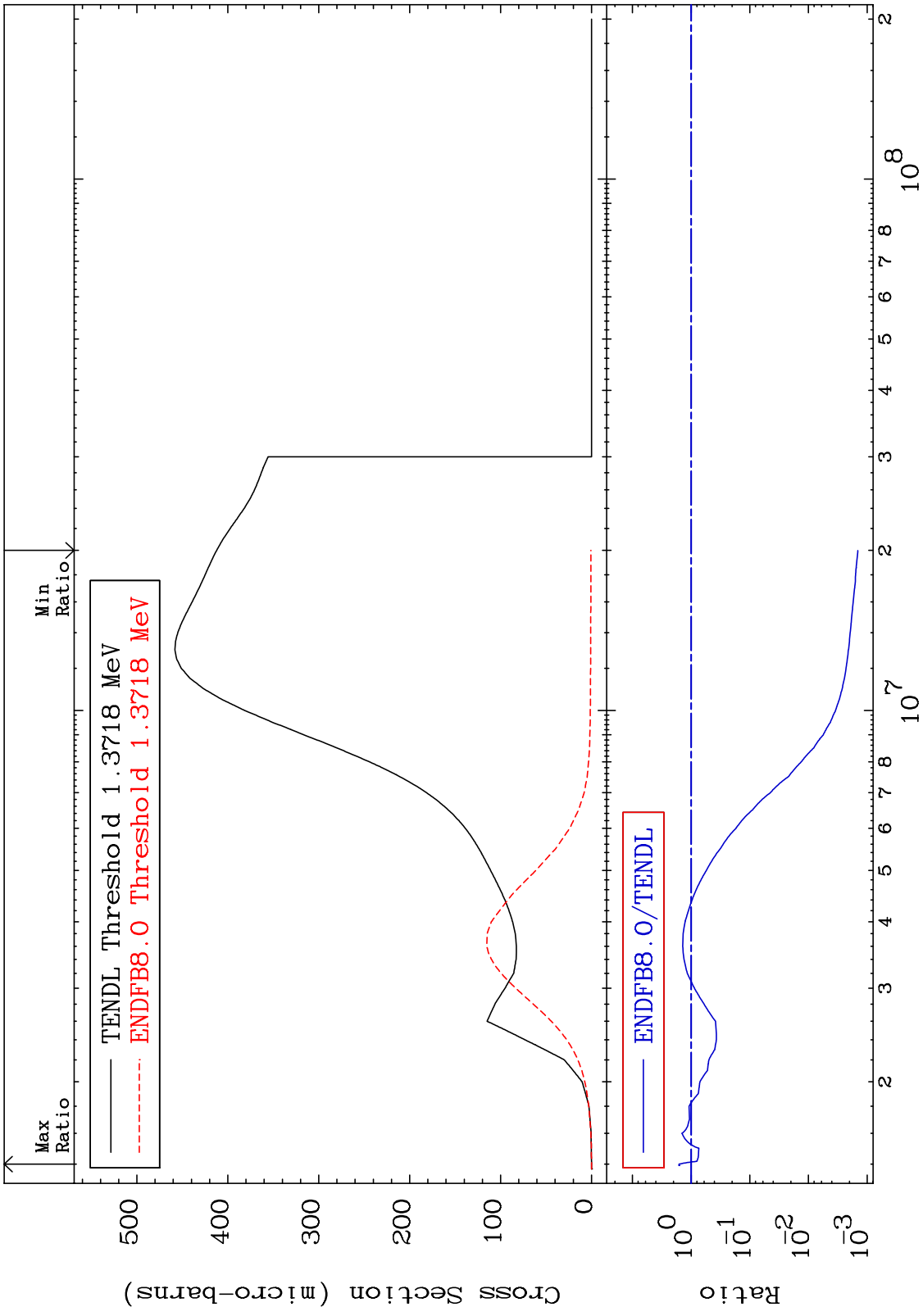
MAT 7237

MT= 63 (n,n') Level  
Cross Section

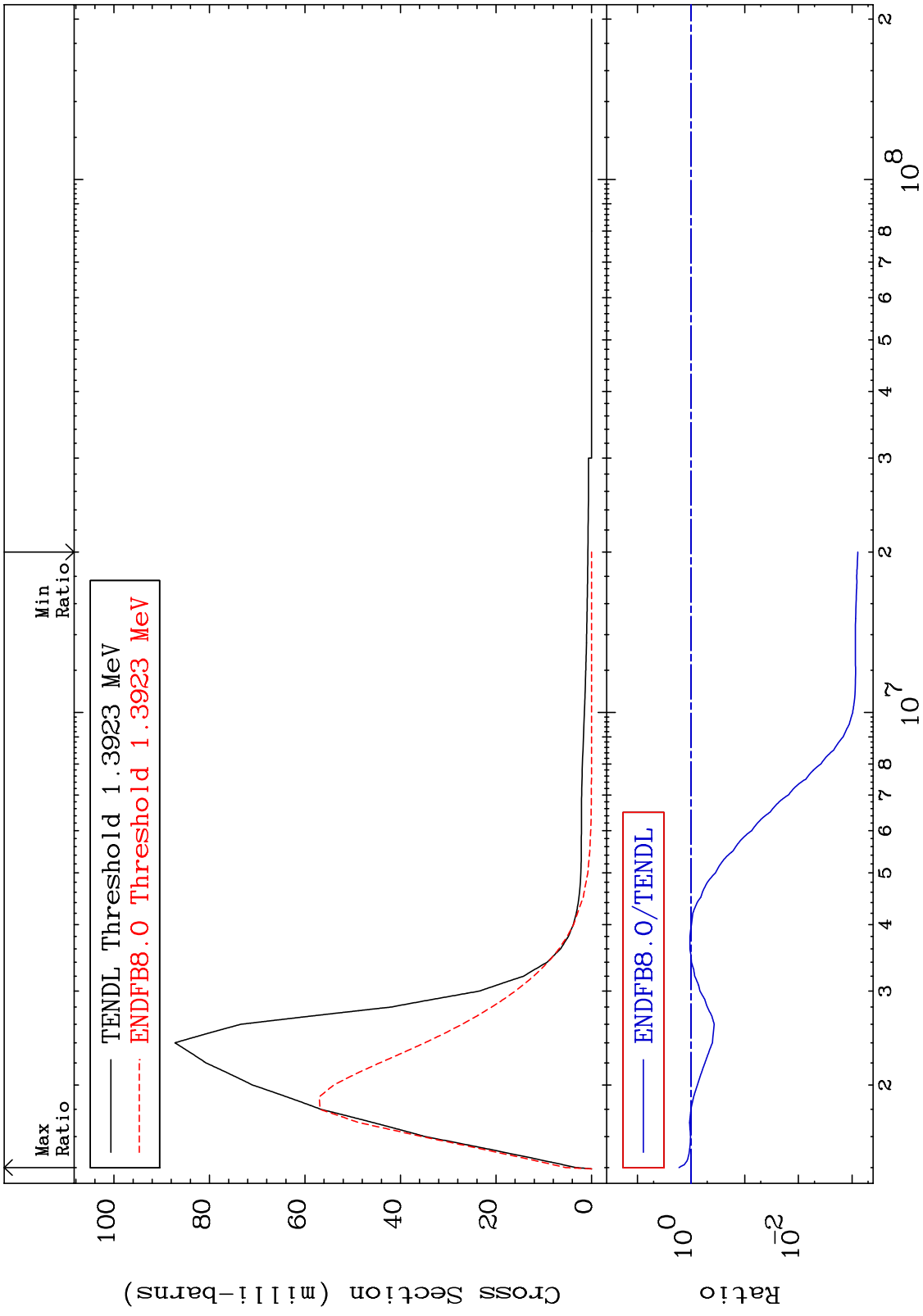
72-Hf-178  
-55.63 To 9999. %



MAT 7237 MT= 64 (n,n') Level Cross Section 72-Hf-178  
 -99.86 To 60.82 %



MAT 7237 MT= 65 (n,n') Level Cross Section 72-Hf-178 -99.92 To 67.18 %

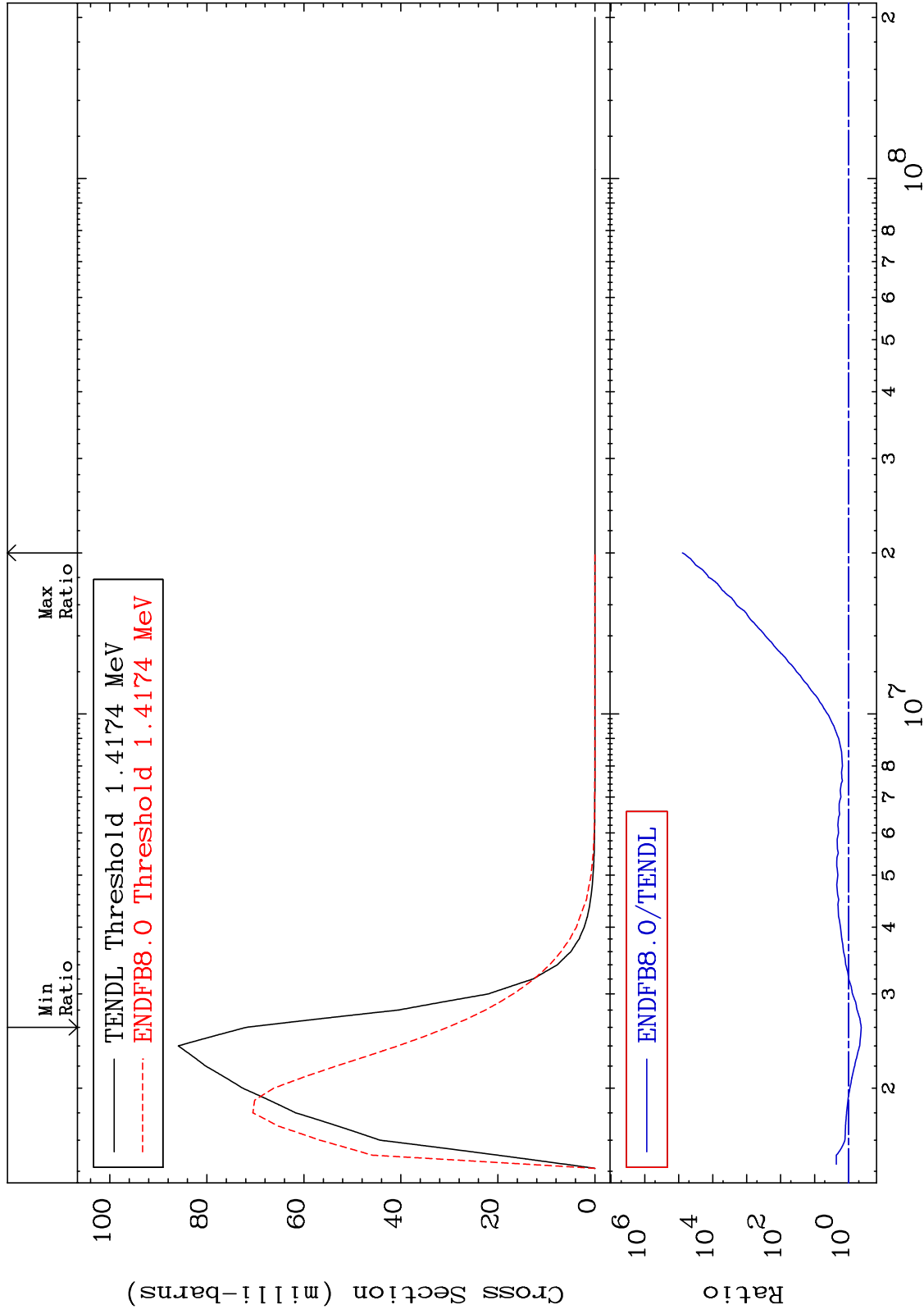


22 72-Hf-178

MAT 7237

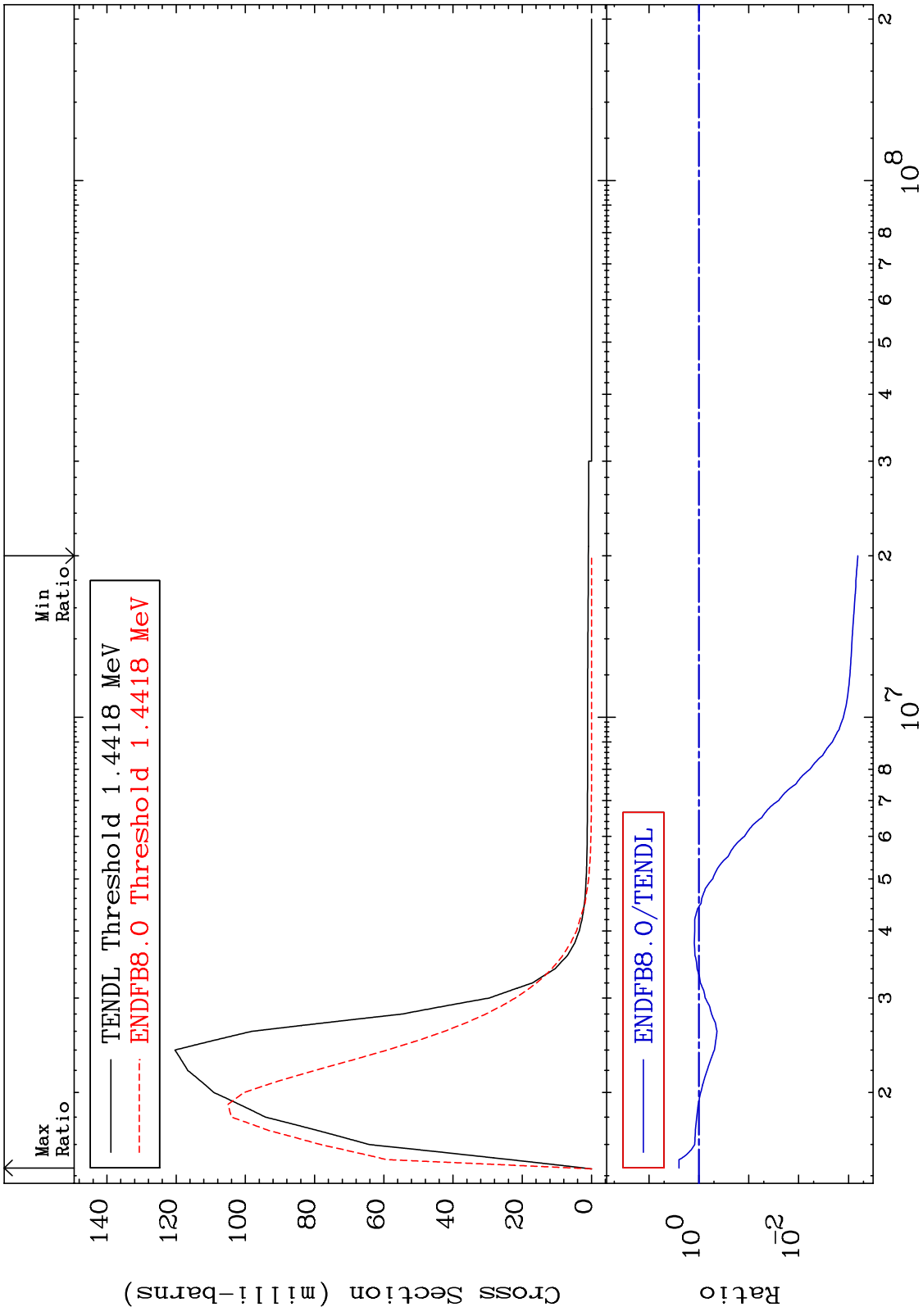
MT= 66 (n,n') Level  
Cross Section

72-Hf-178  
-57.79 To 9999. %





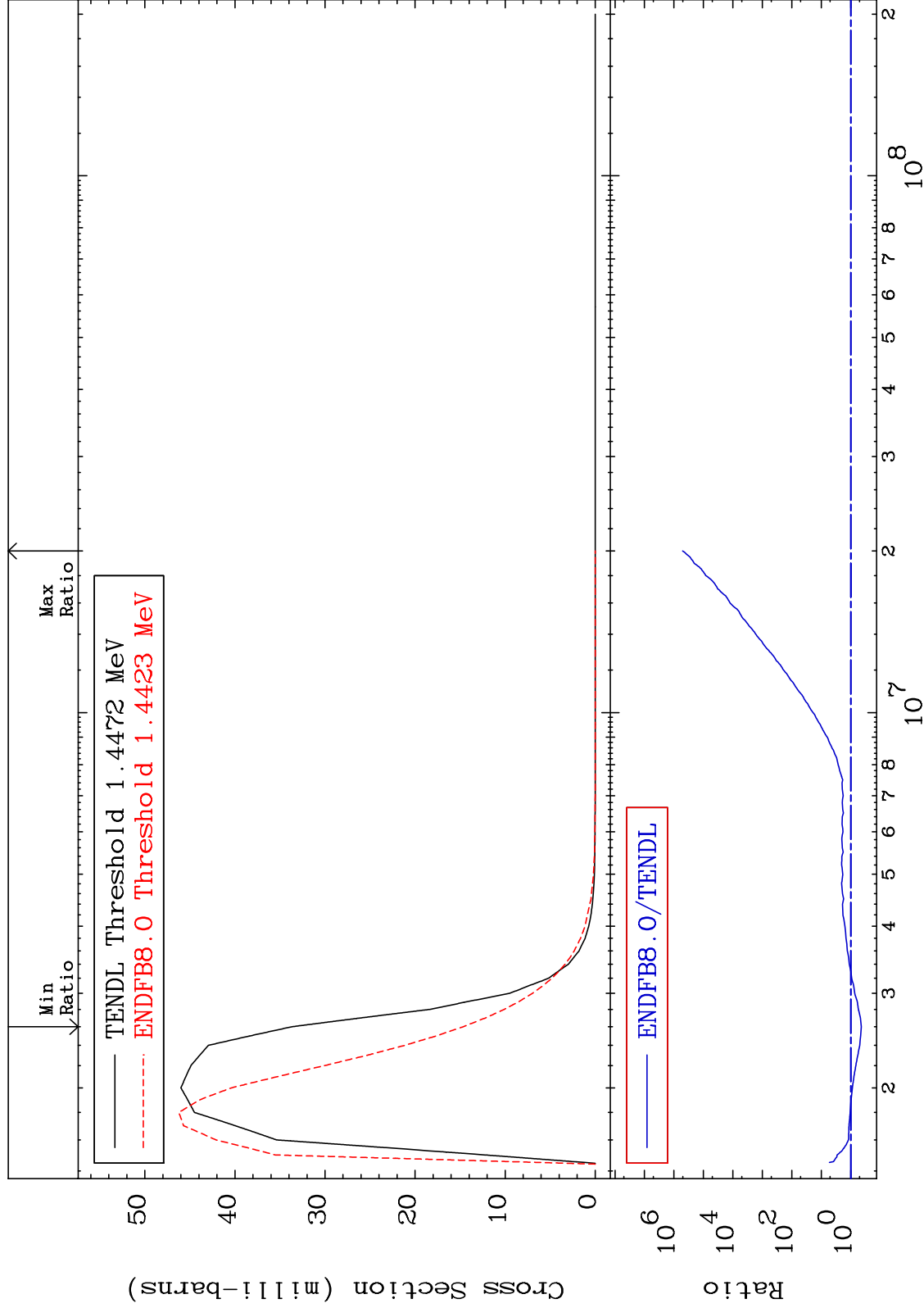
MAT 7237 MT= 67 (n,n') Level Cross Section 72-Hf-178 -99.94 To 150.4 %



MAT 7237

MT= 68 (n,n') Level  
Cross Section

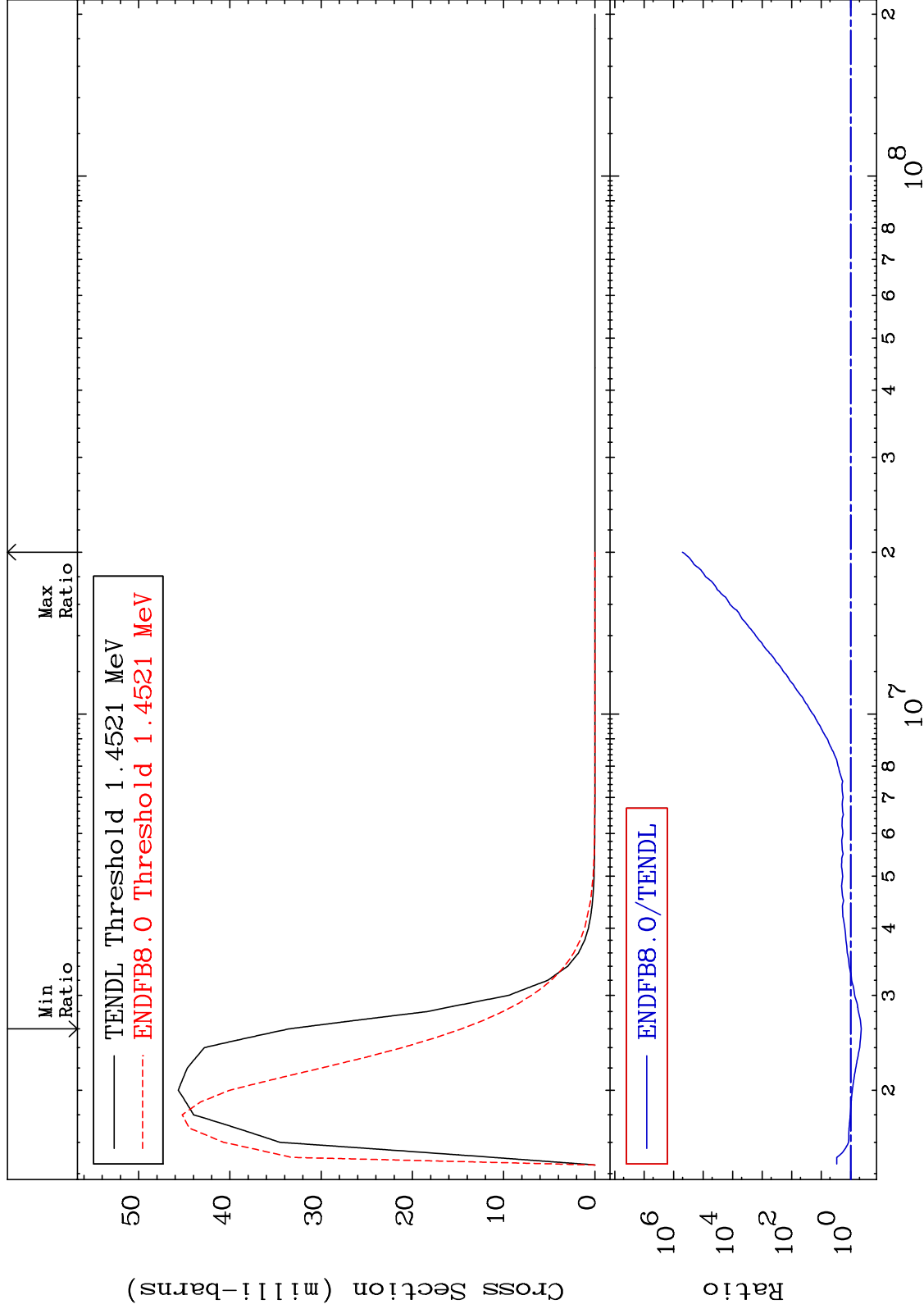
72-Hf-178  
-56.44 To 9999. %



MAT 7237

MT= 69 (n,n') Level  
Cross Section

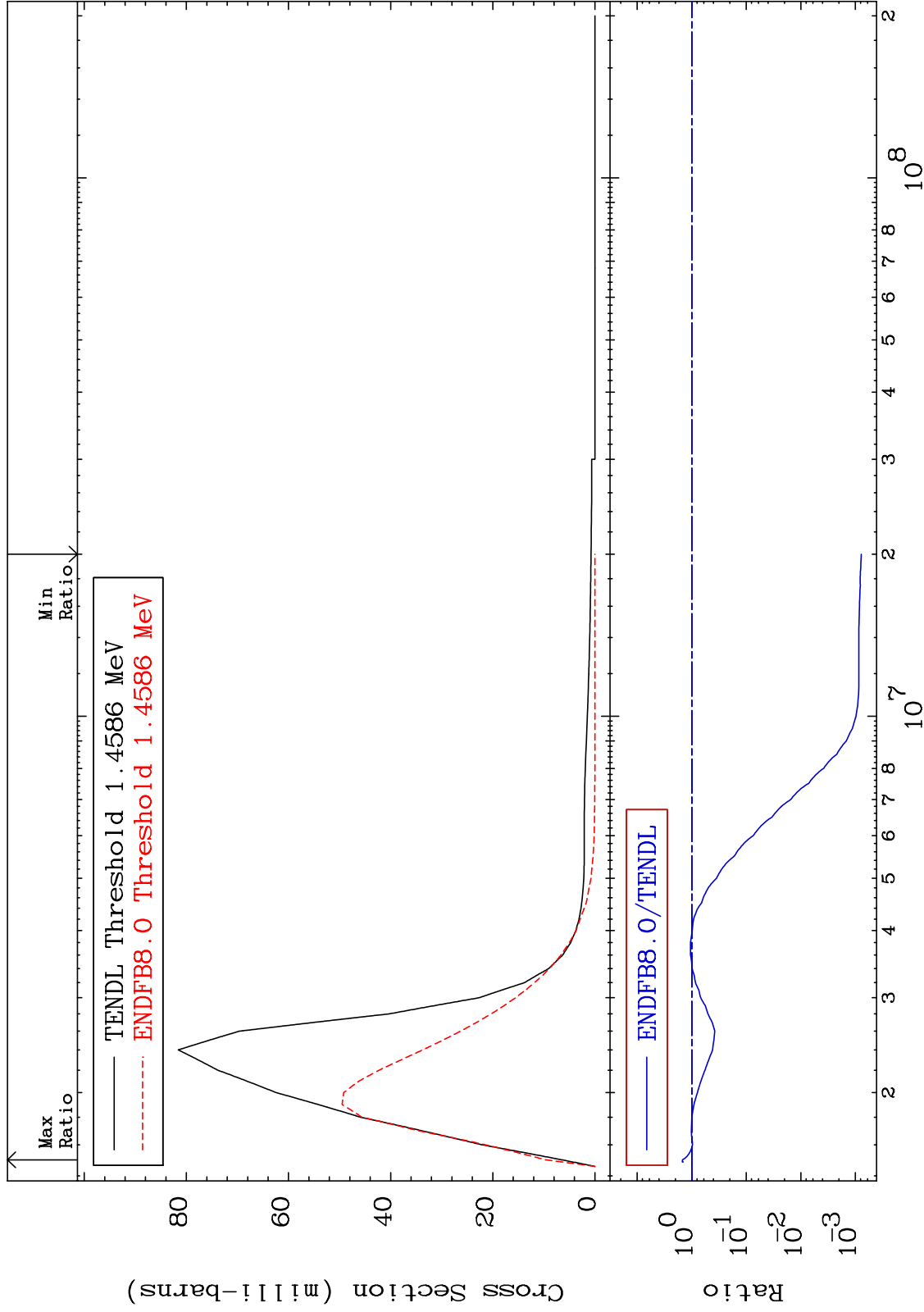
72-Hf-178  
-56.41 To 9999. %



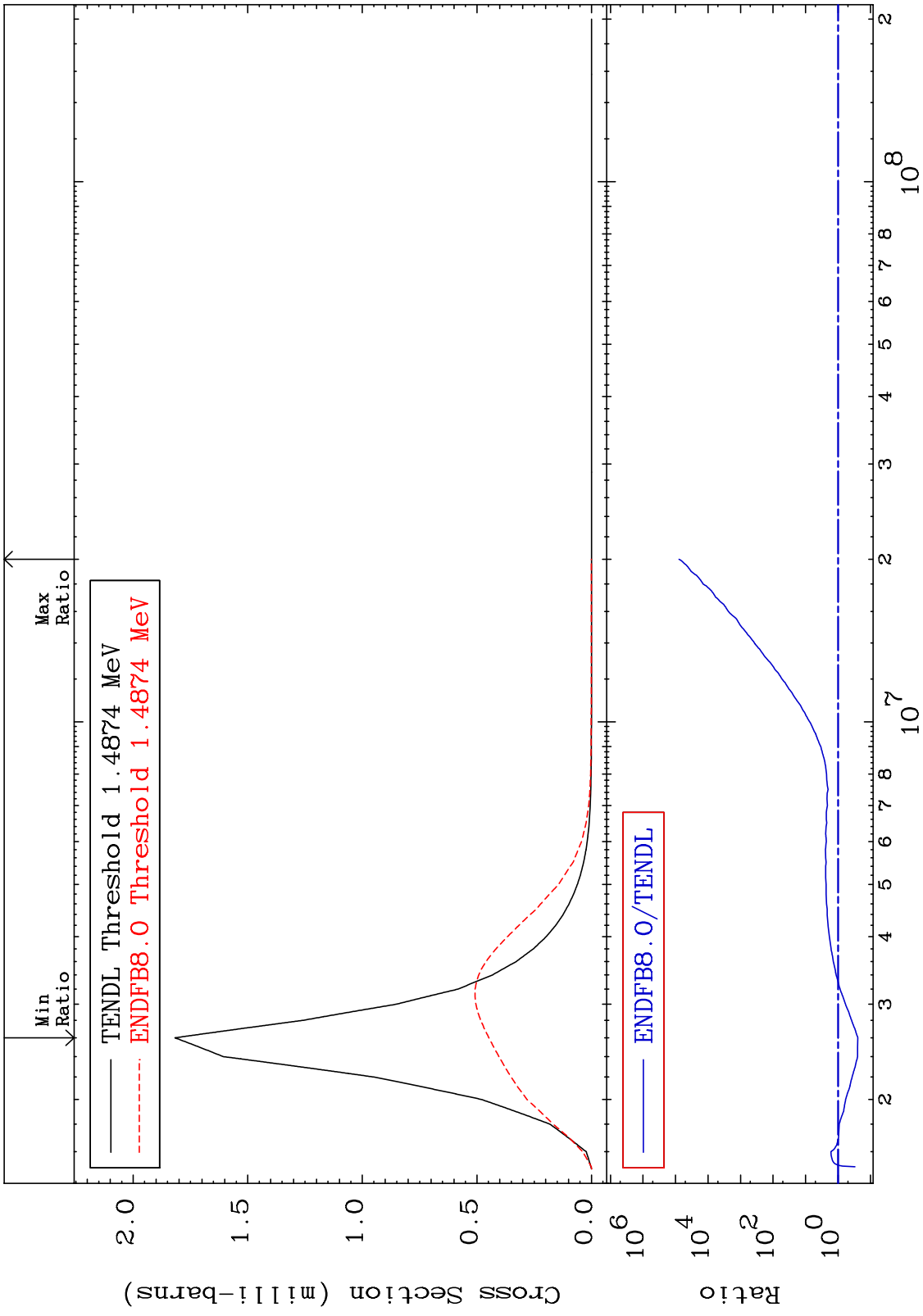
MAT 7237

MT= 70 (n,n') Level  
Cross Section

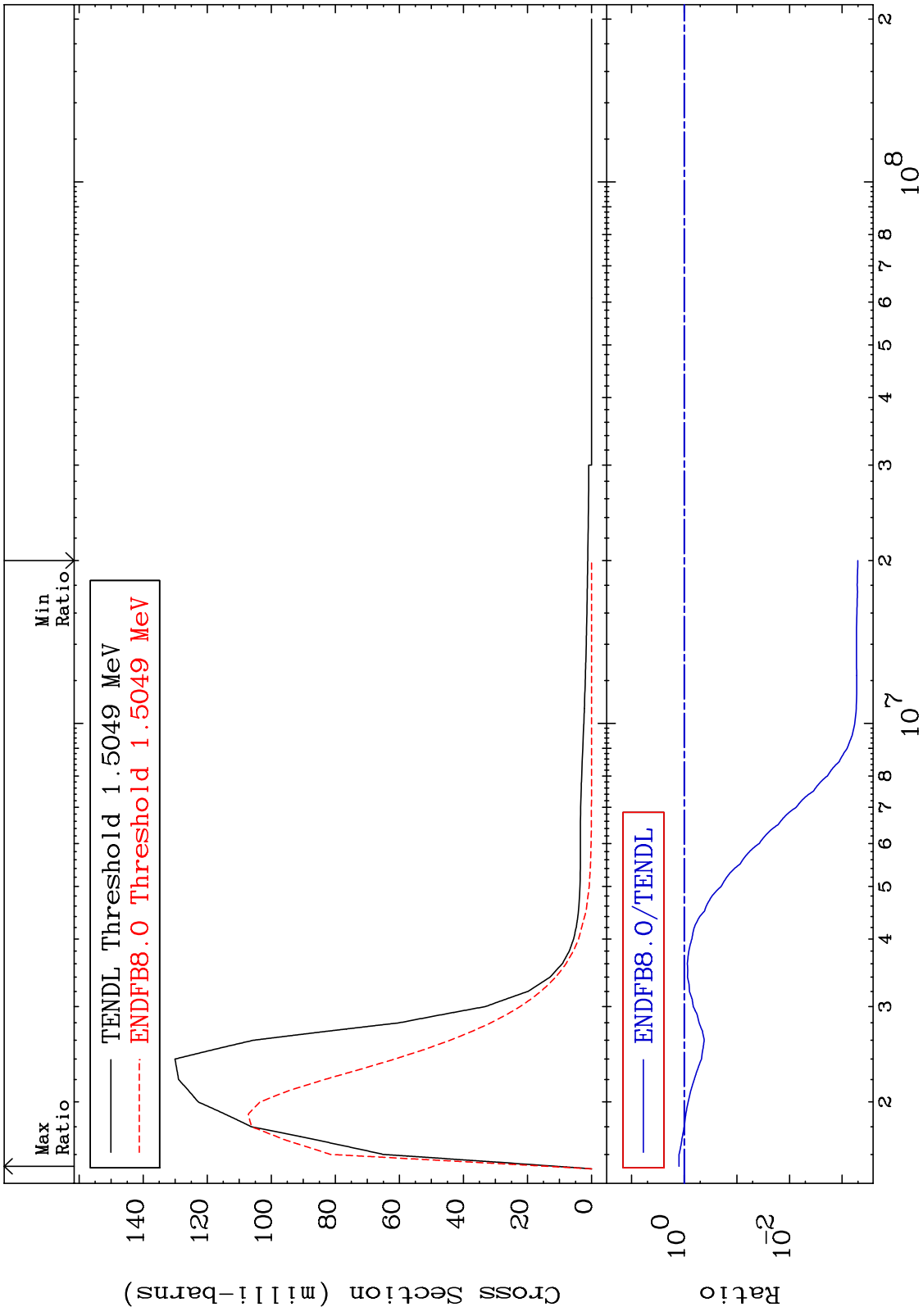
72-Hf-178  
-99.92 To 47.94 %



MAT 7237 MT= 71 (n,n') Level Cross Section 72-Hf-178  
 -75.35 To 9999. %



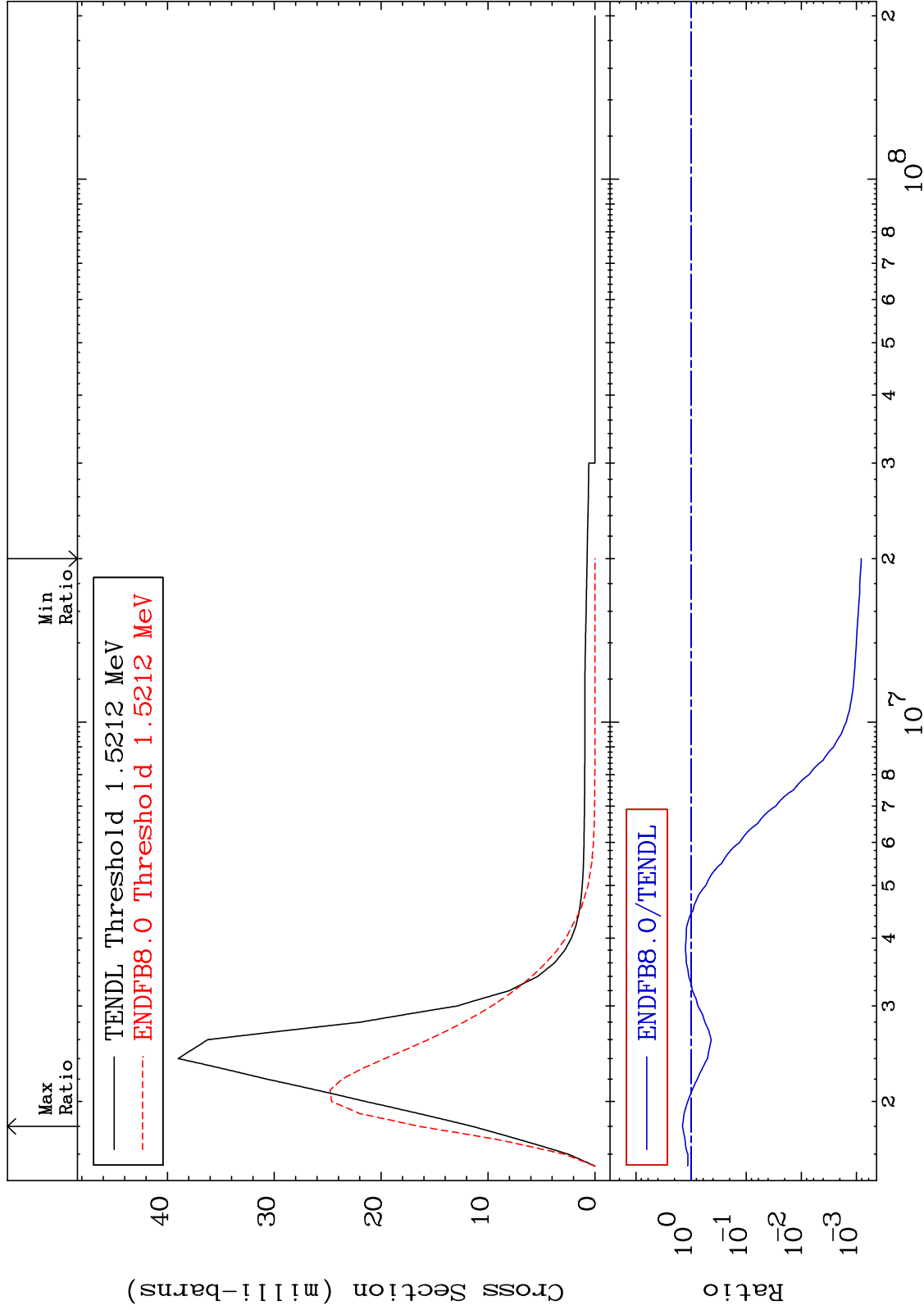
MAT 7237 MT= 72 (n,n') Level Cross Section 72-Hf-178 -99.95 To 25.58 %



MAT 7237

MT= 73 (n,n') Level  
Cross Section

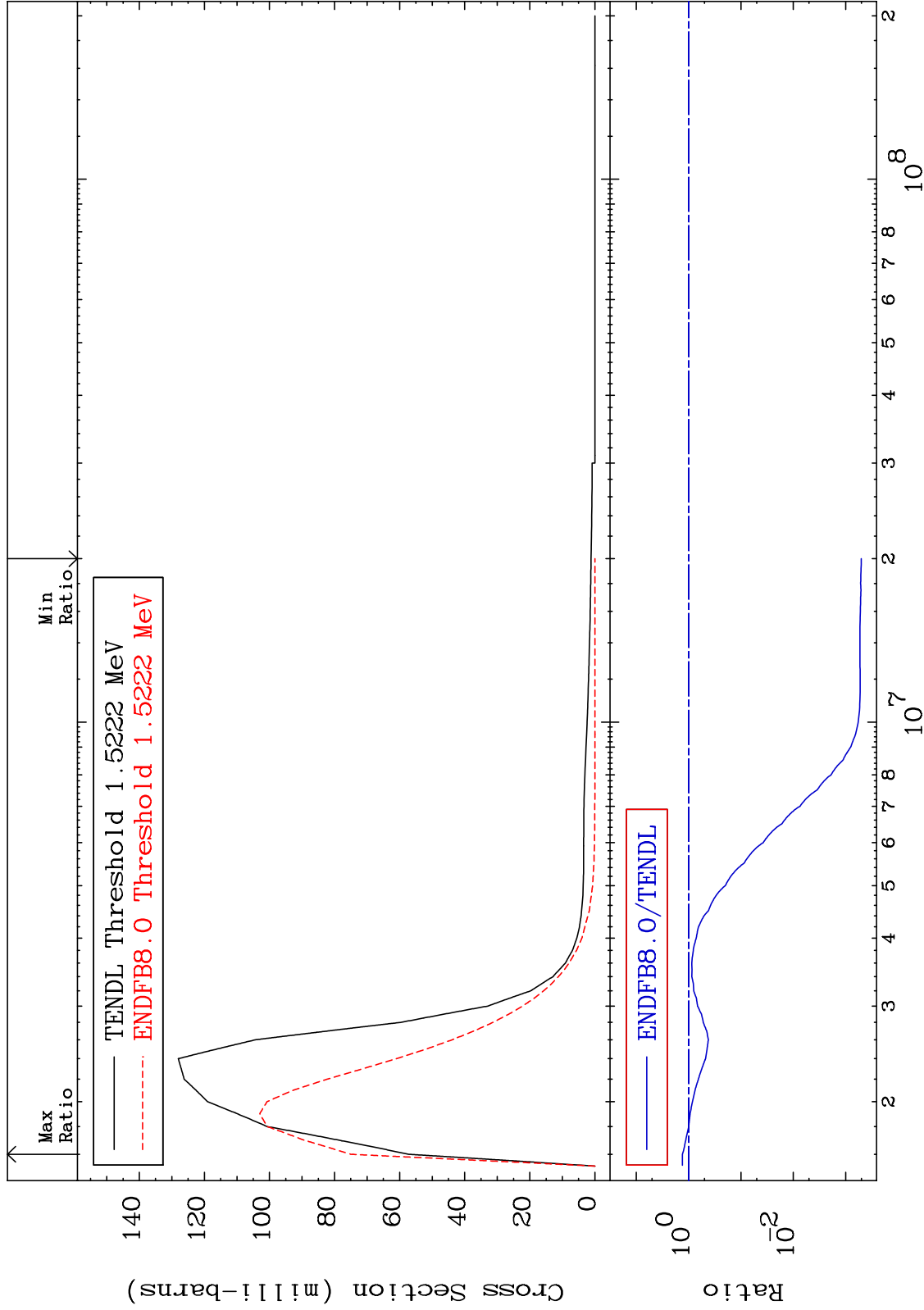
72-Hf-178  
-99.92 To 43.14 %



MAT 7237

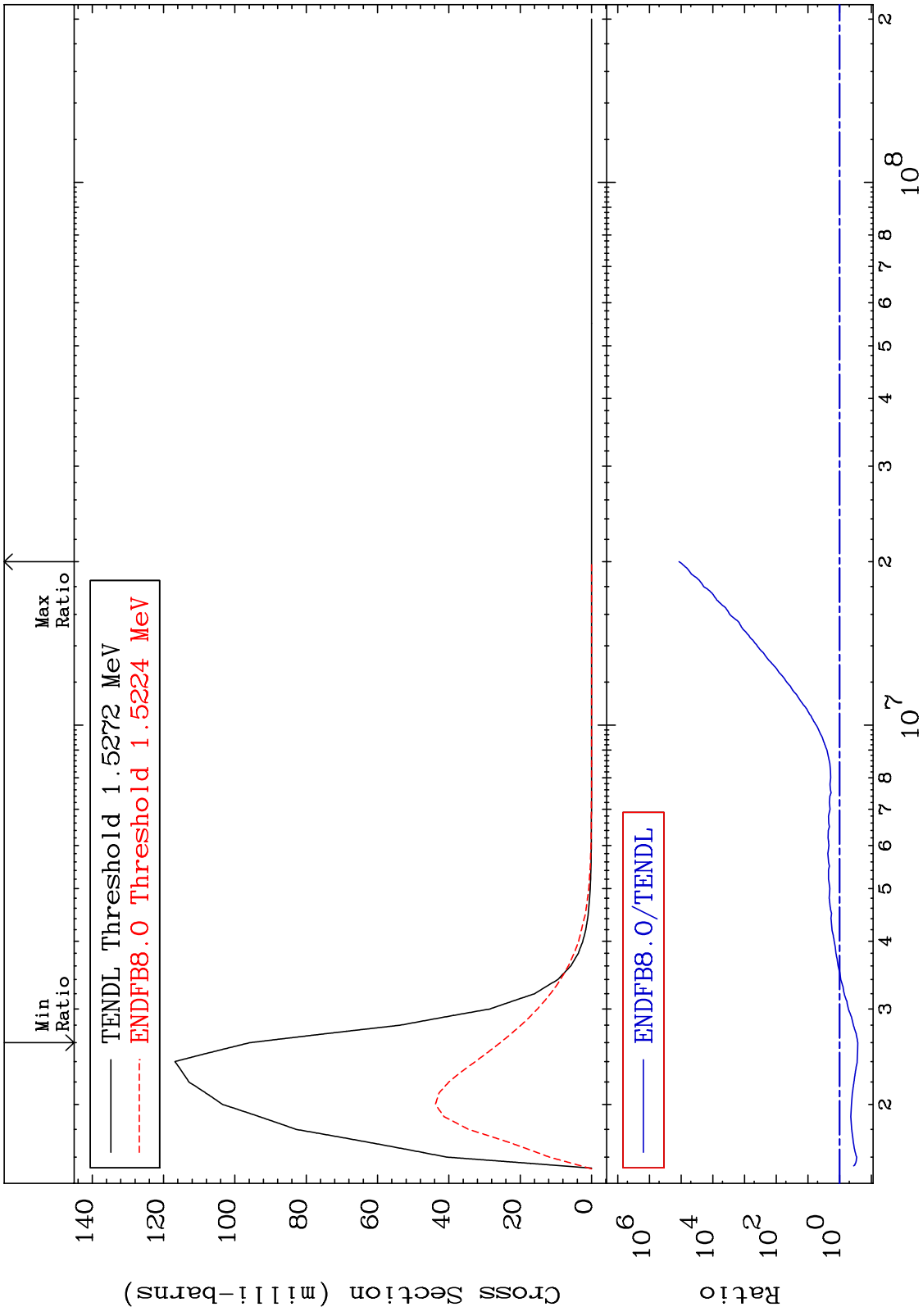
MT= 74 (n,n') Level  
Cross Section

72-Hf-178  
-99.95 To 31.29 %

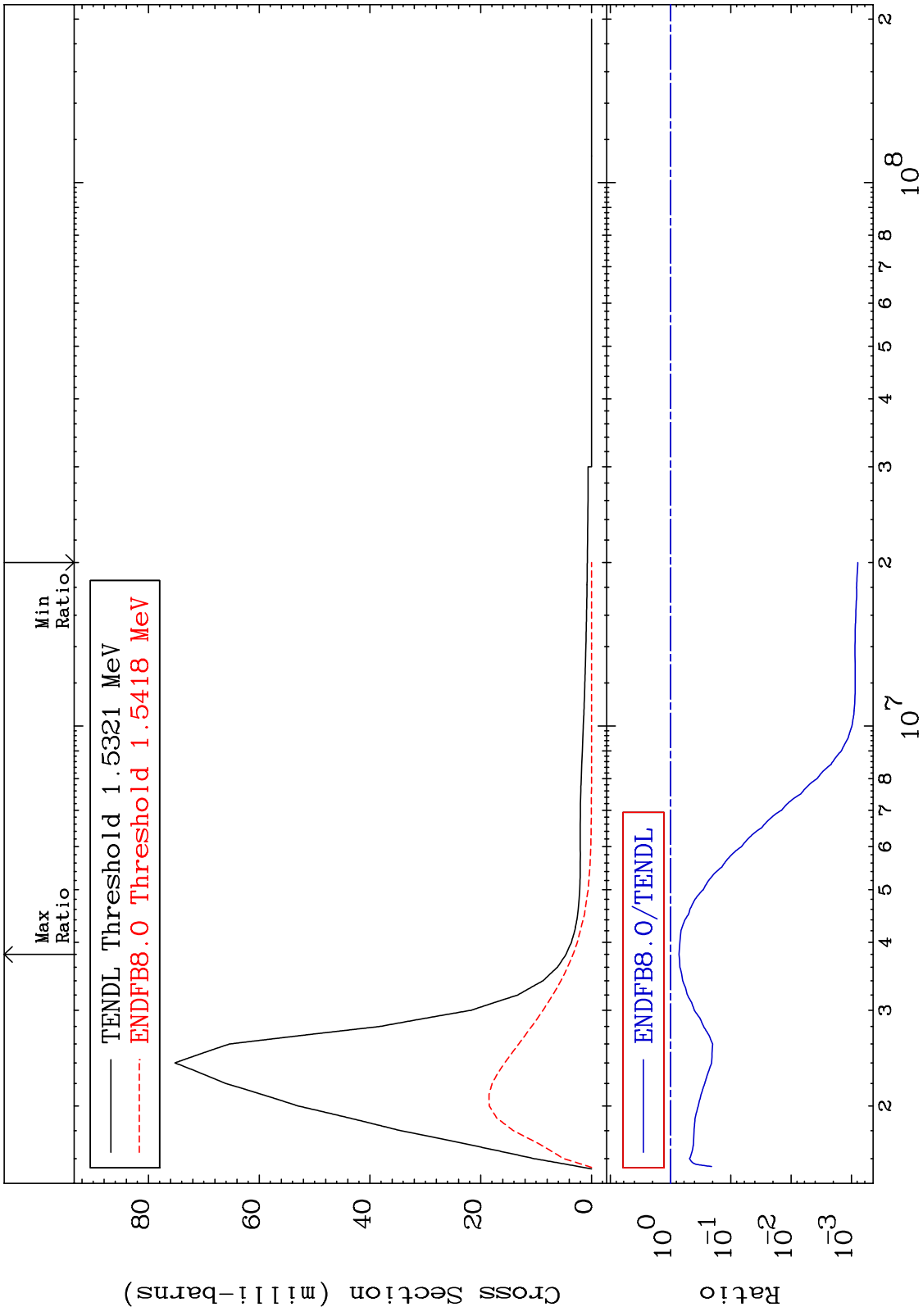




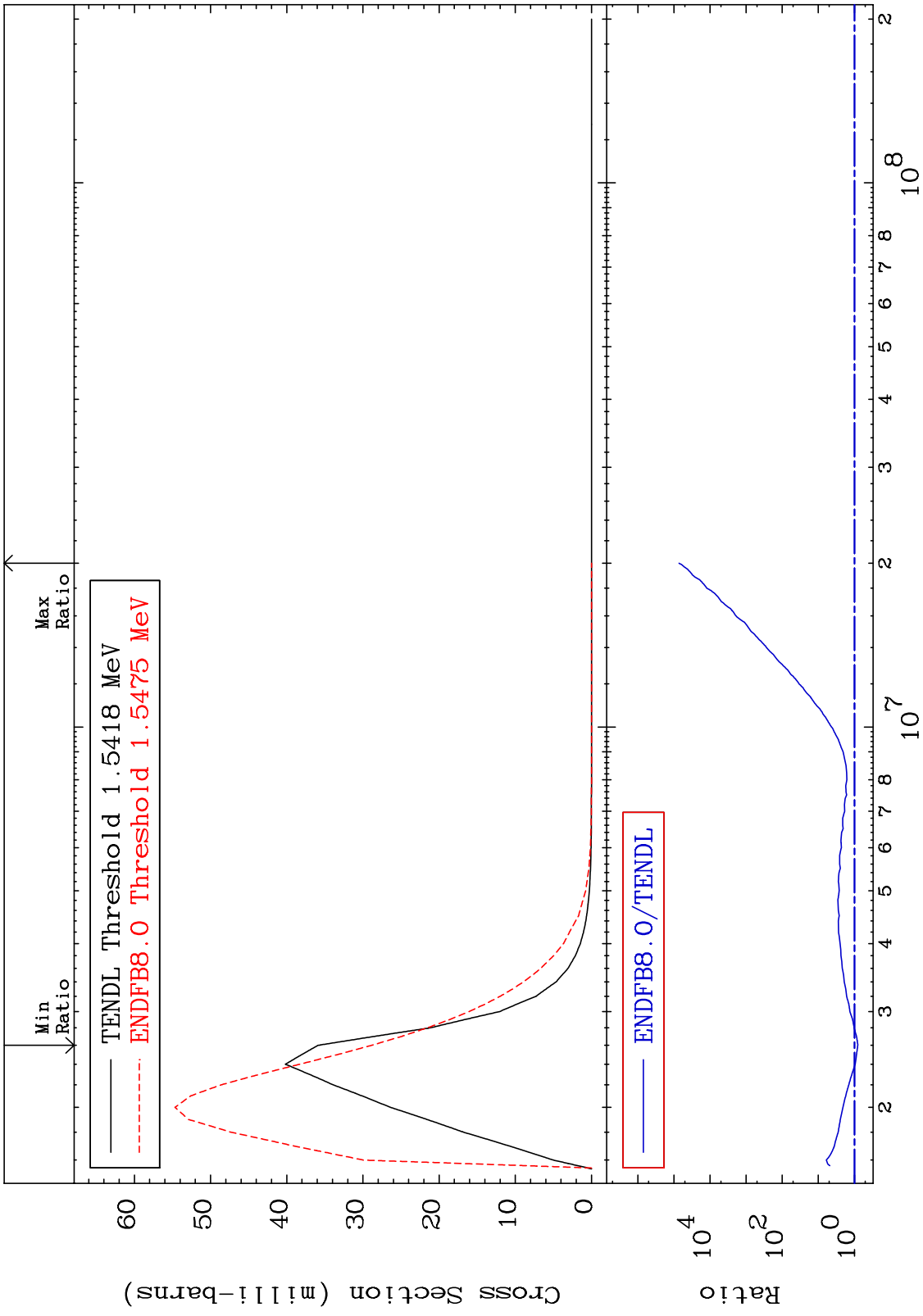
MAT 7237 MT= 75 (n,n') Level Cross Section -73.31 To 9999. % 72-Hf-178



MAT 7237 MT= 76 (n,n') Level Cross Section 72-Hf-178  
 -99.92 To -27.59%



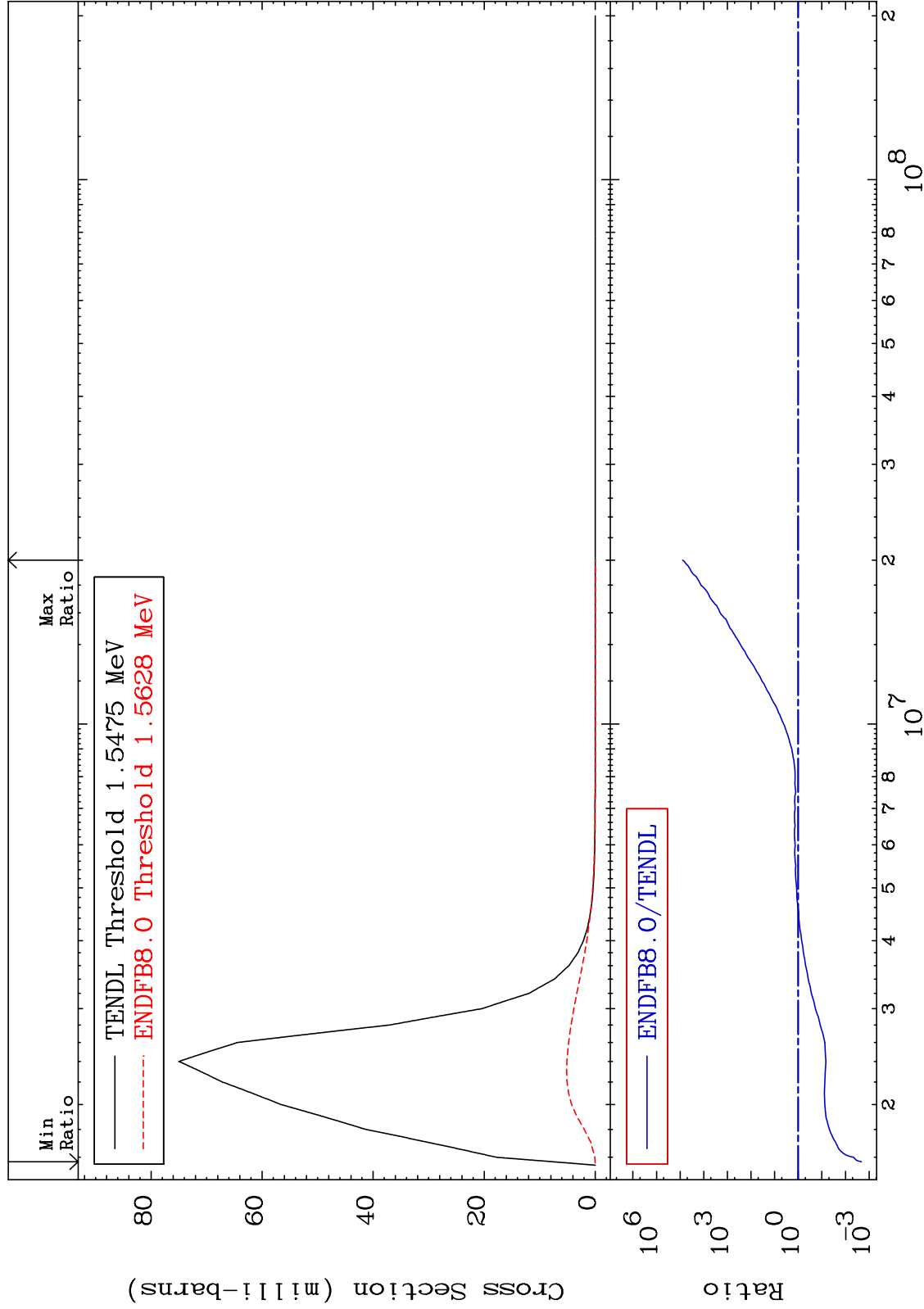
MAT 7237 MT= 77 (n,n') Level Cross Section 72-Hf-178  
 -19.59 To 9999. %



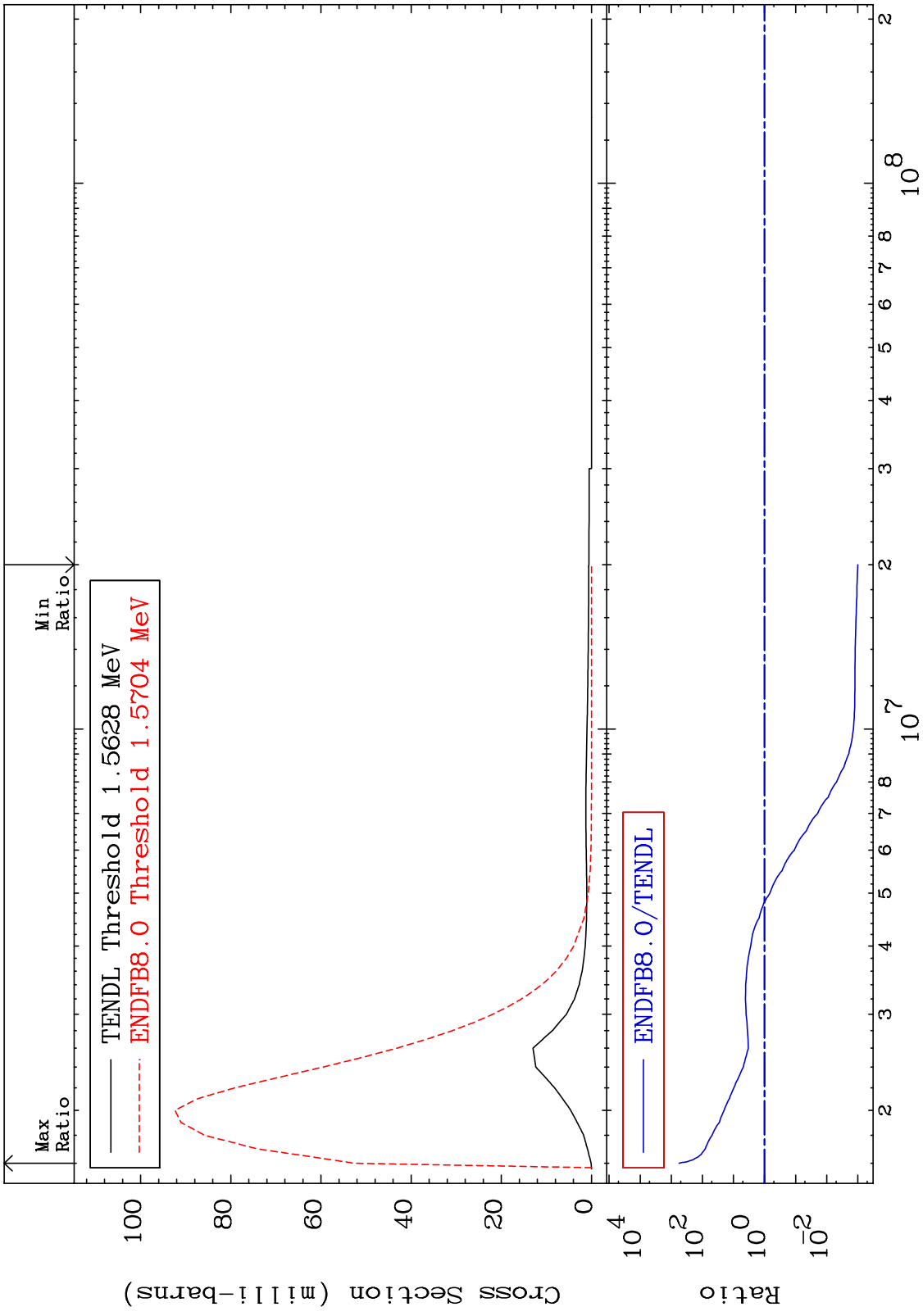
MAT 7237

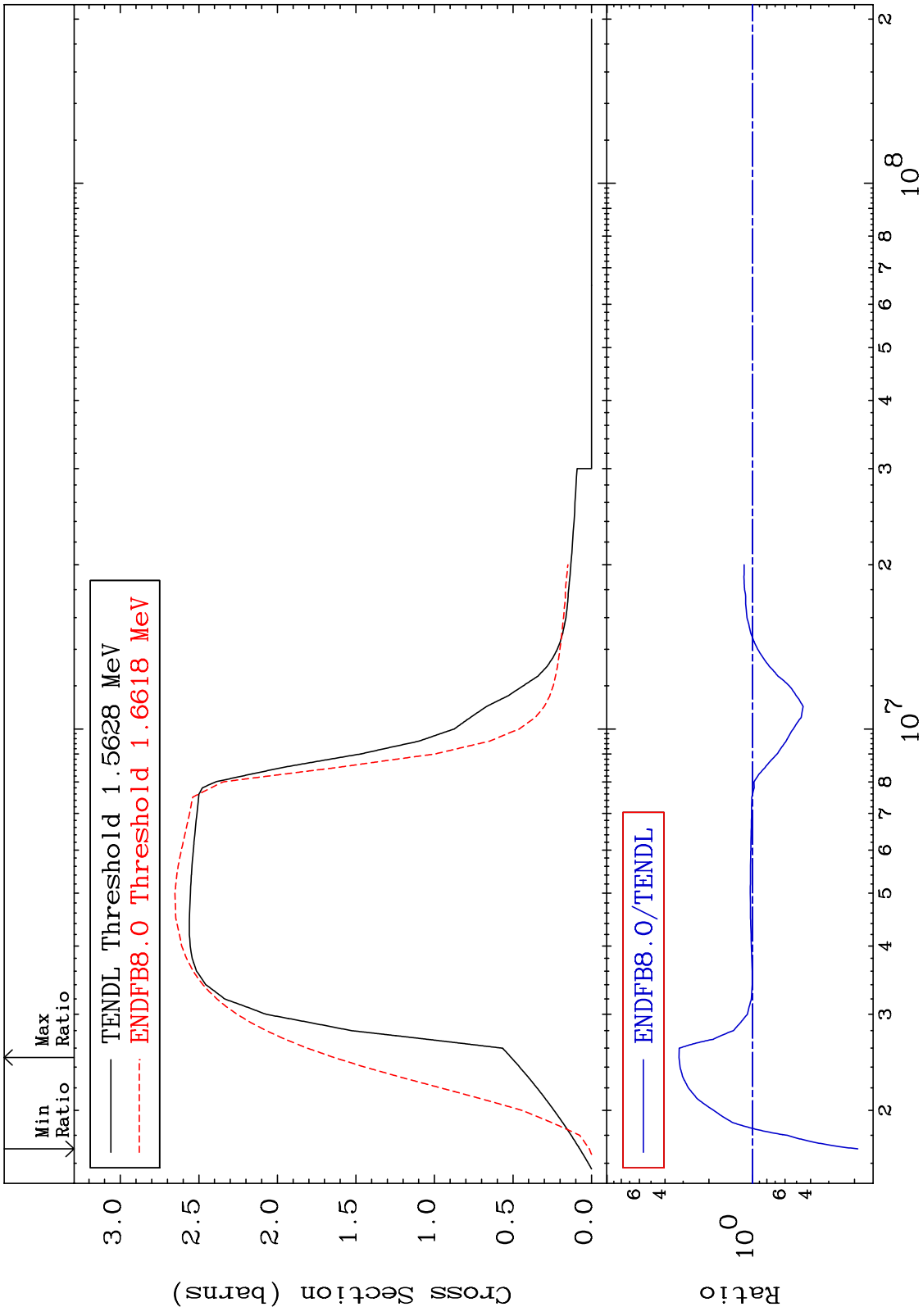
MT= 78 (n,n') Level  
Cross Section

72-Hf-178  
-99.79 To 9999. %



MAT 7237 MT= 79 (n,n') Level Cross Section 72-Hf-178 -99.90 To 9999. %





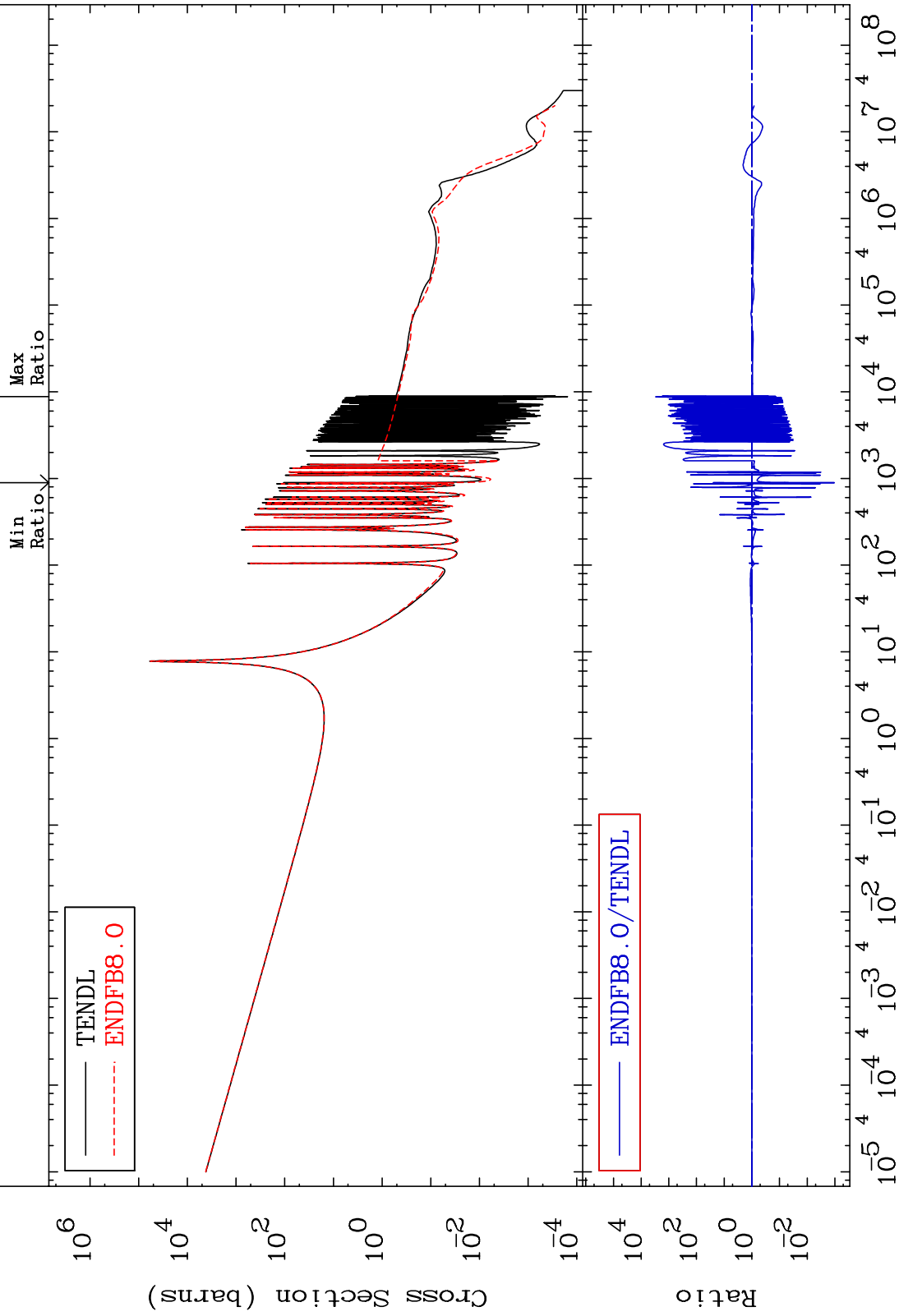
MAT 7237

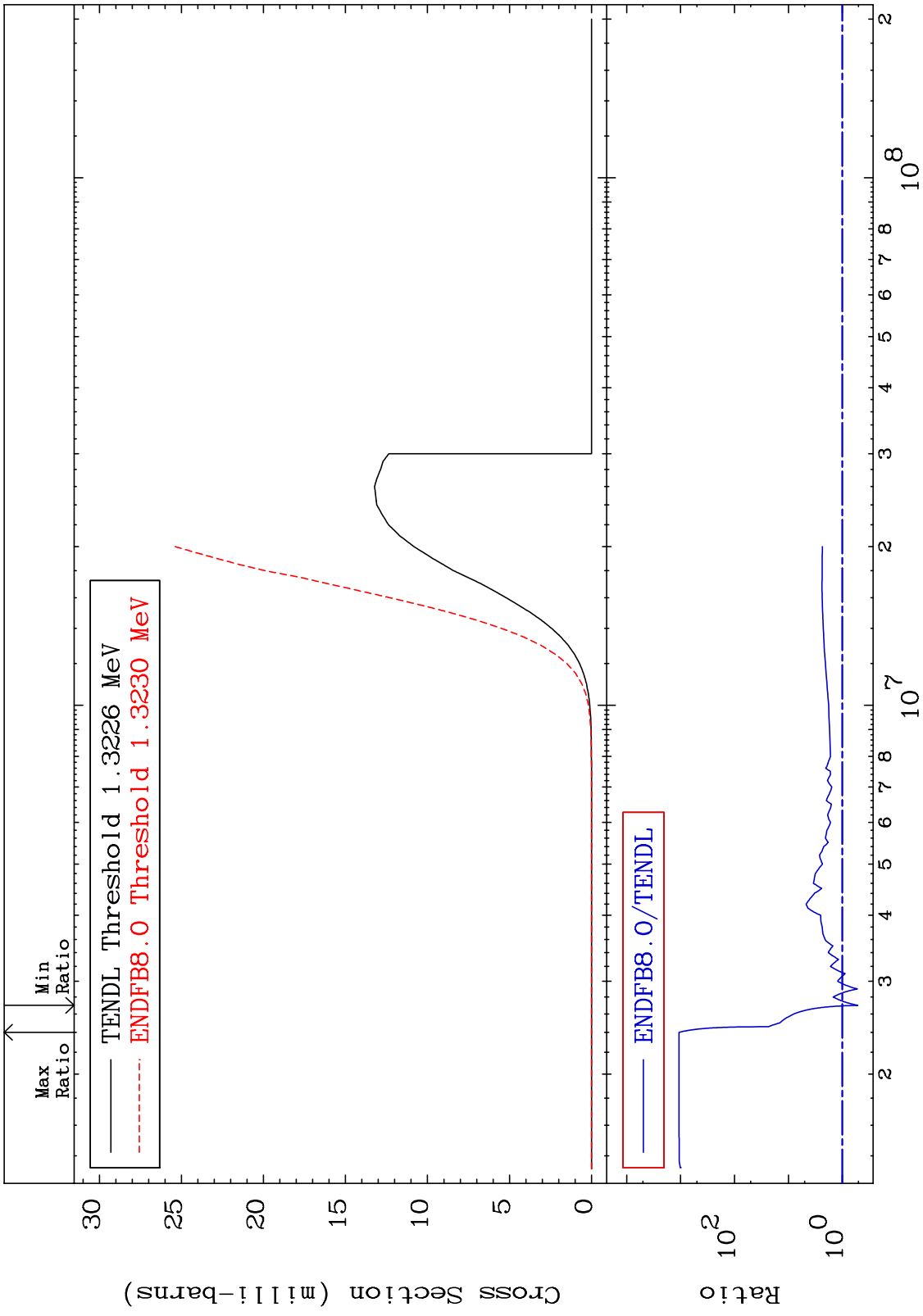
(n,  $\gamma$ )

72-Hf-178

-99.90 To 9999. %

Cross Section







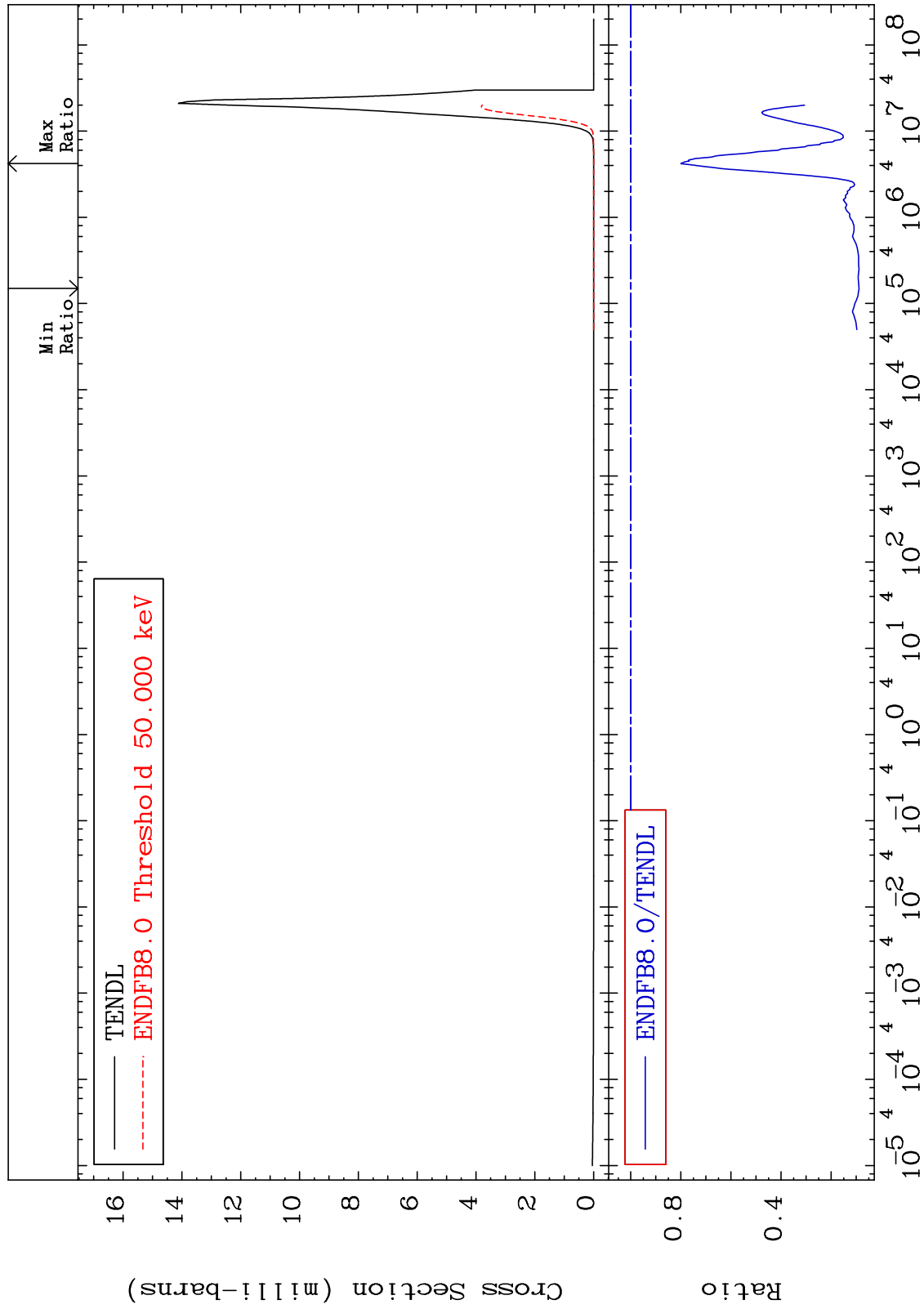
MAT 7237

(n,  $\alpha$ )

72-Hf-178

Cross Section

-91.11 To -19.99%



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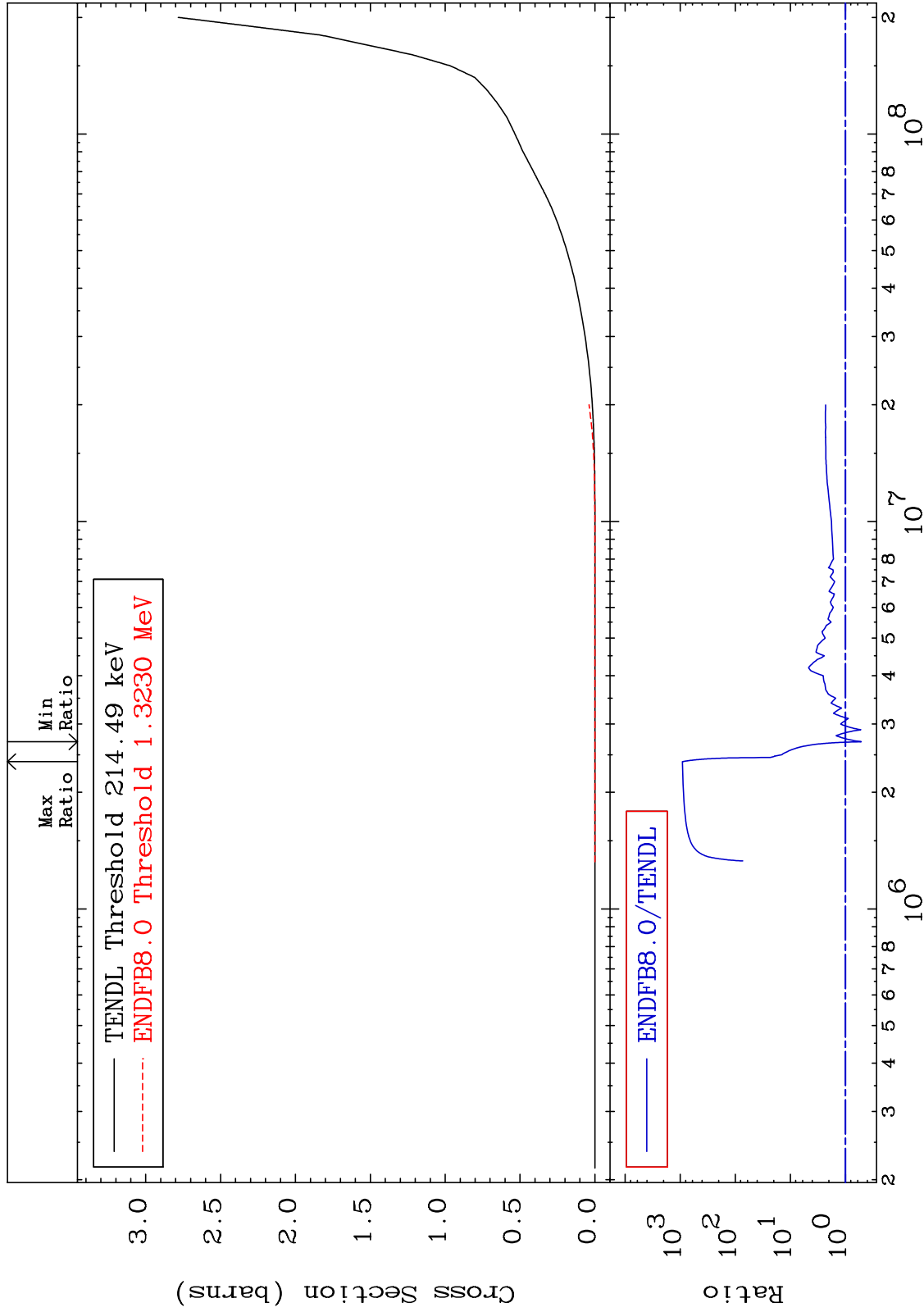
Incident Energy (eV)

72-Hf-178

MAT 7237

Hydrogen Production  
Cross Section

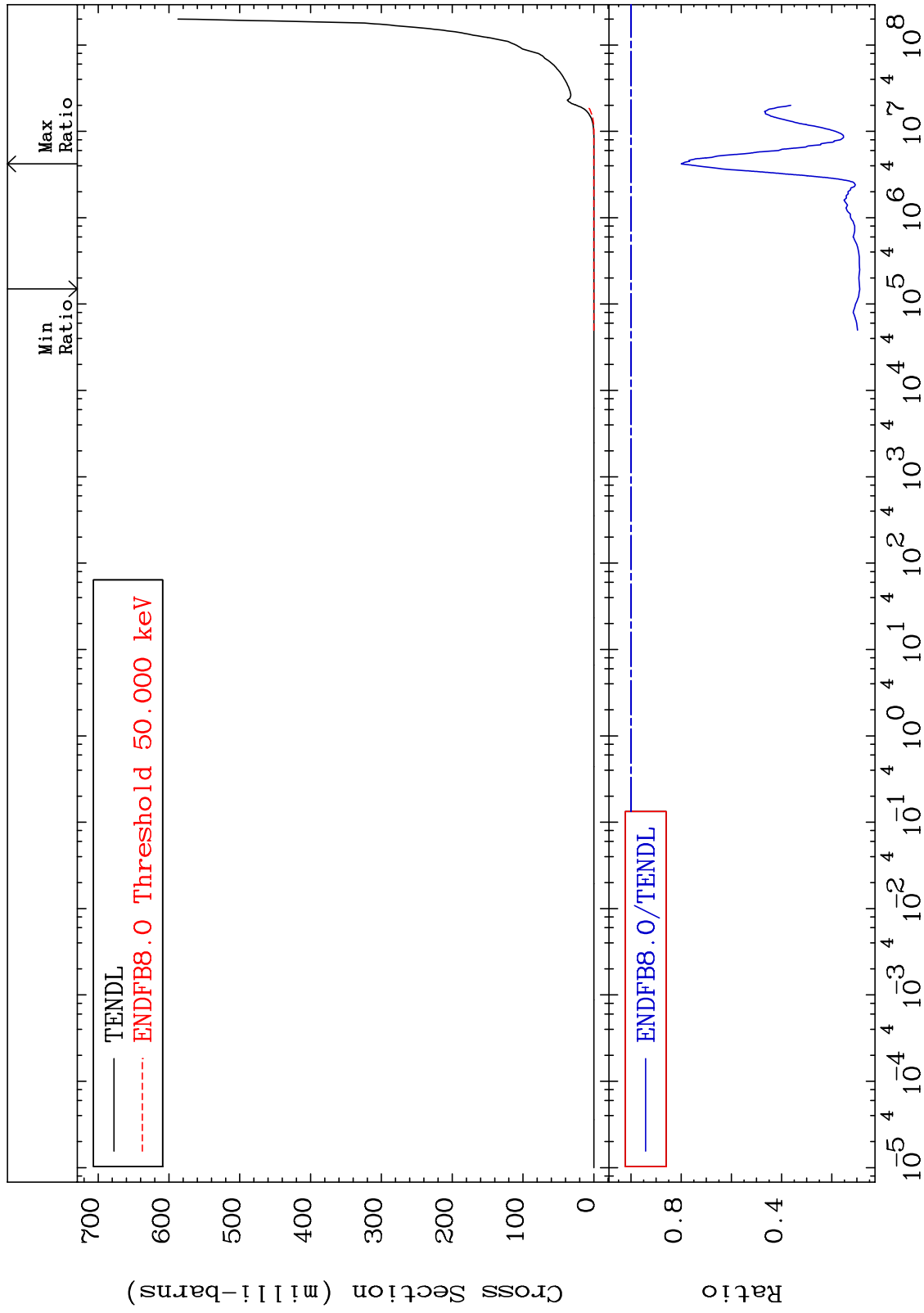
72-Hf-178  
-48.45 To 9999. %



MAT 7237

He-4 Production  
Cross Section

72-Hf-178  
-91.11 To -19.99%

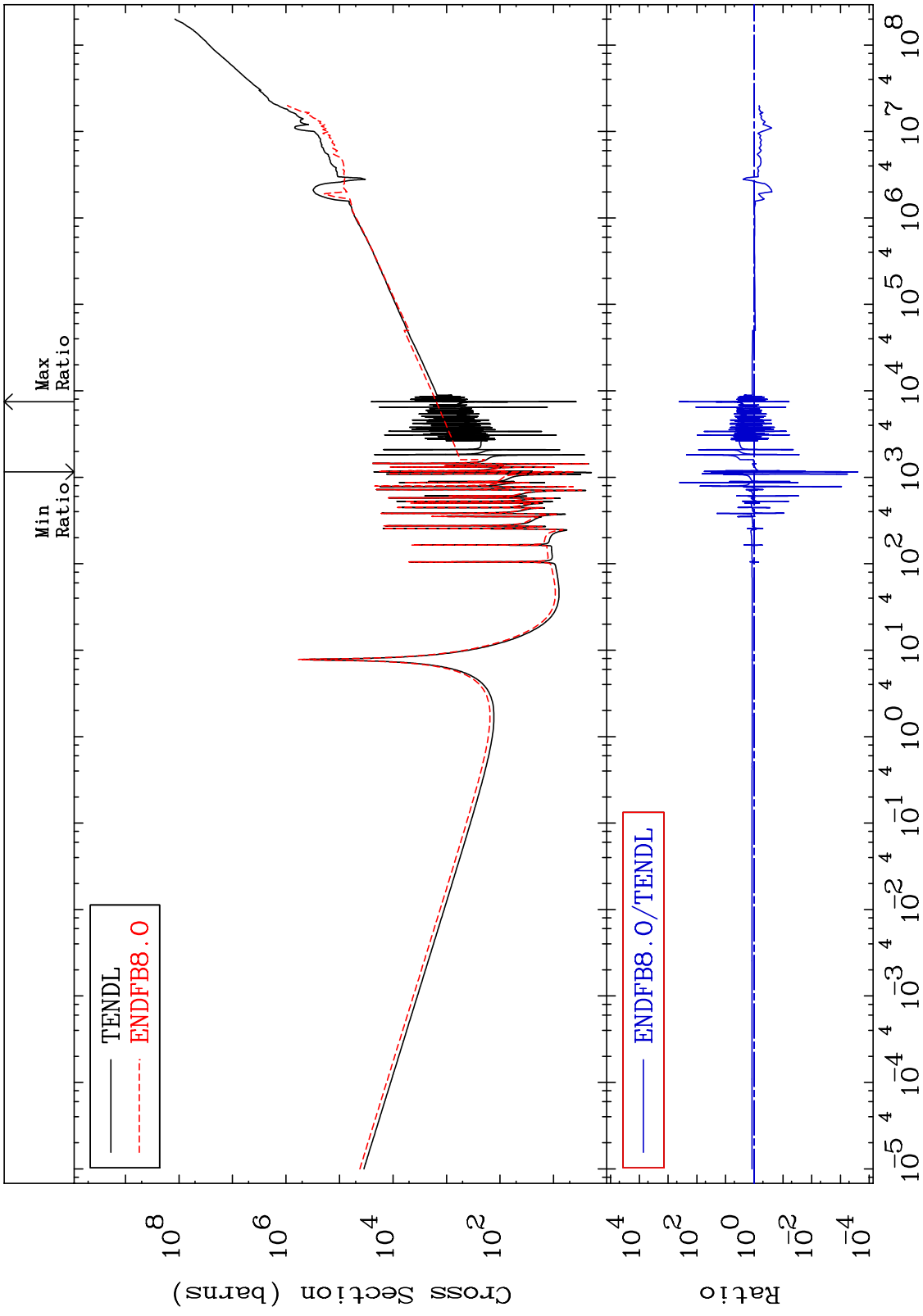


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Incident Energy (eV)

72-Hf-178

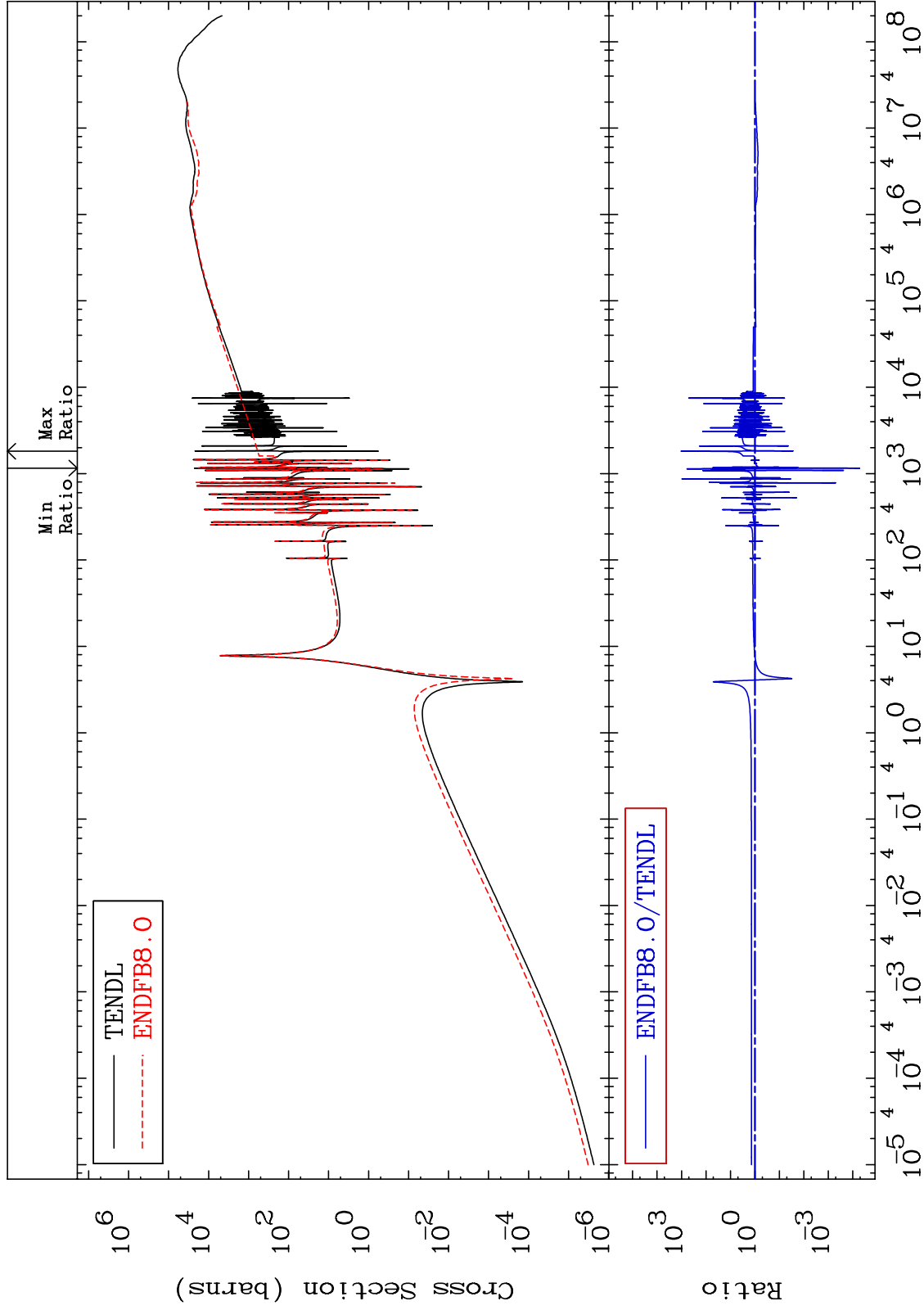
MAT 7237 Kerma total (eV-barns) 72-Hf-178  
 Cross Section -99.98 To 9999. %



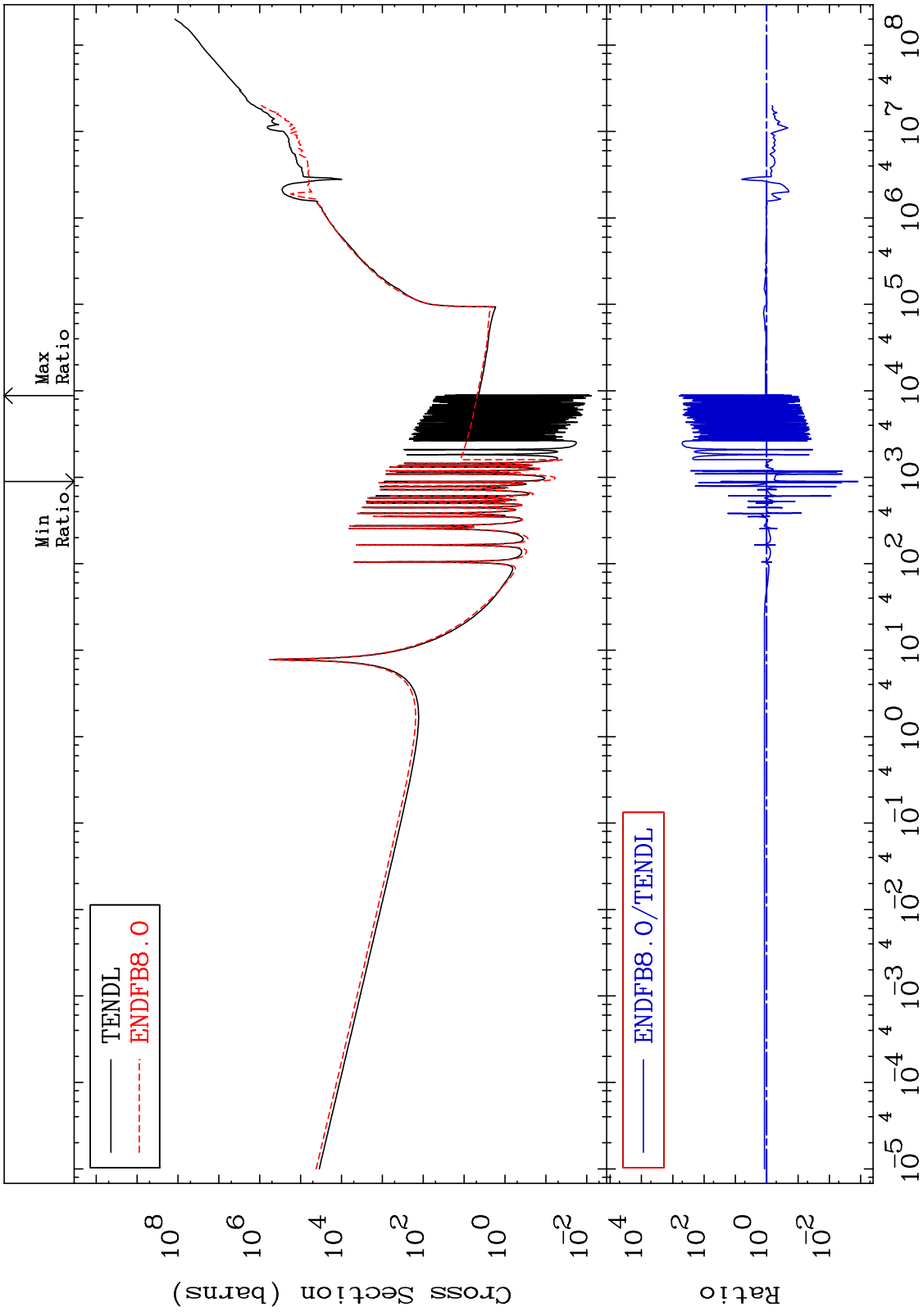
MAT 7237

Kerma elastic  
Cross Section

72-Hf-178  
-99.99 To 9999. %



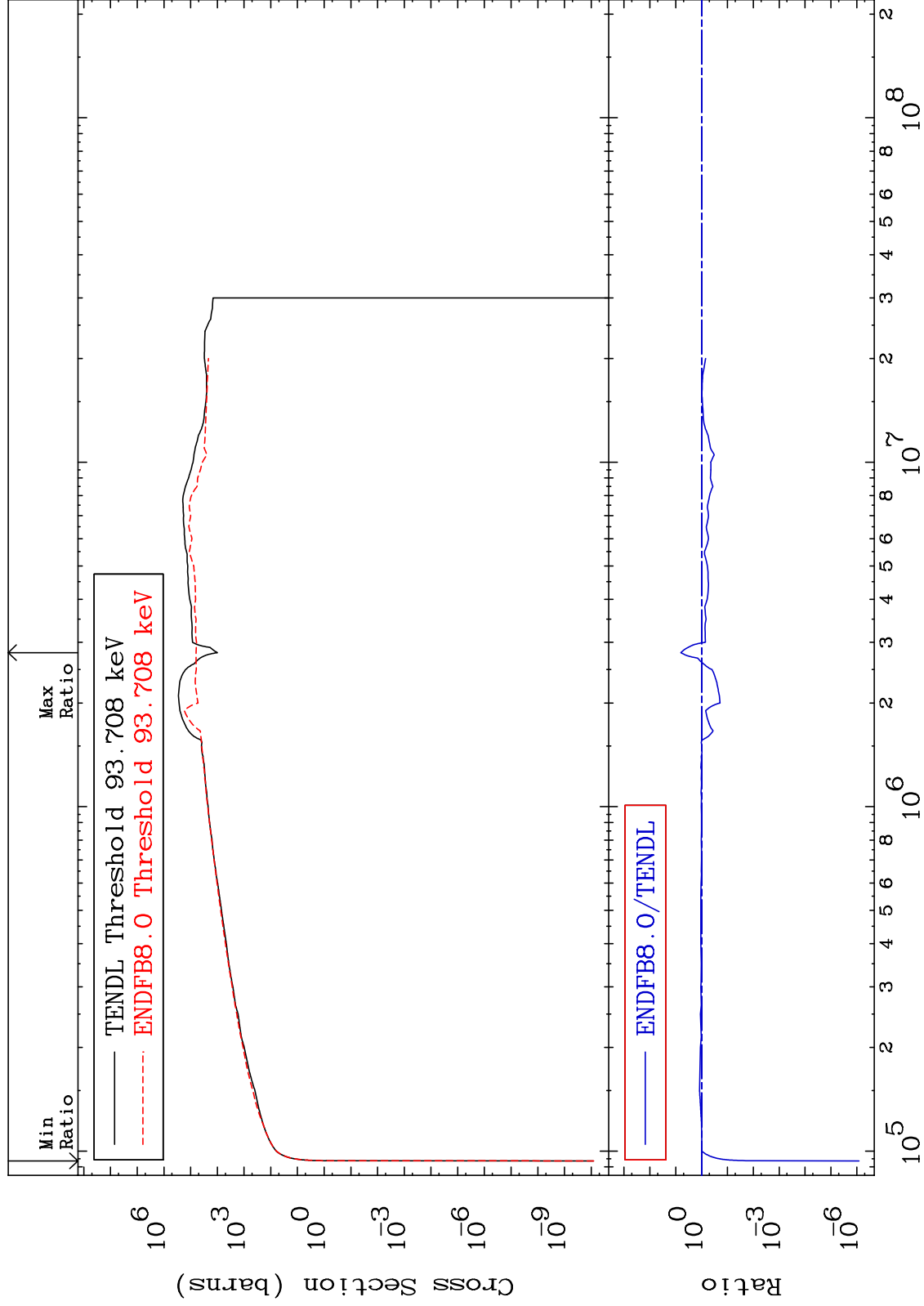
MAT 7237      Kerma non-elastic (all but mt2)      72-Hf-178  
 Cross Section      -99.88 To 9999. %



MAT 7237

Kerma inelastic (mt51-91)  
Cross Section

72-Hf-178  
-100.0 To 533.8 %

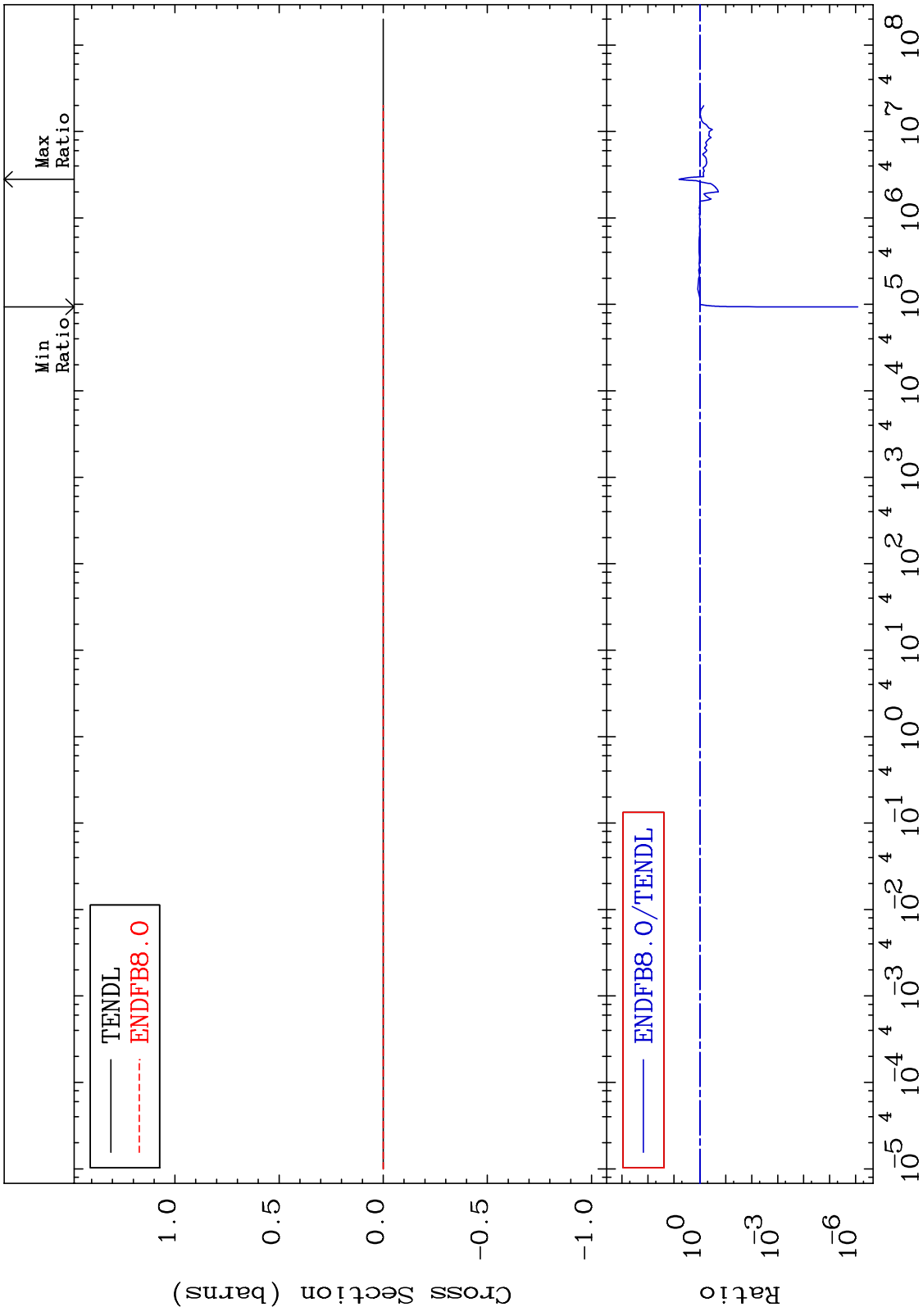


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Incident Energy (eV)

72-Hf-178

MAT 7237 Kerma fission (mt18 or mt19-20-21-38) 72-Hf-178  
 Cross Section -100.0 To 533.8 %

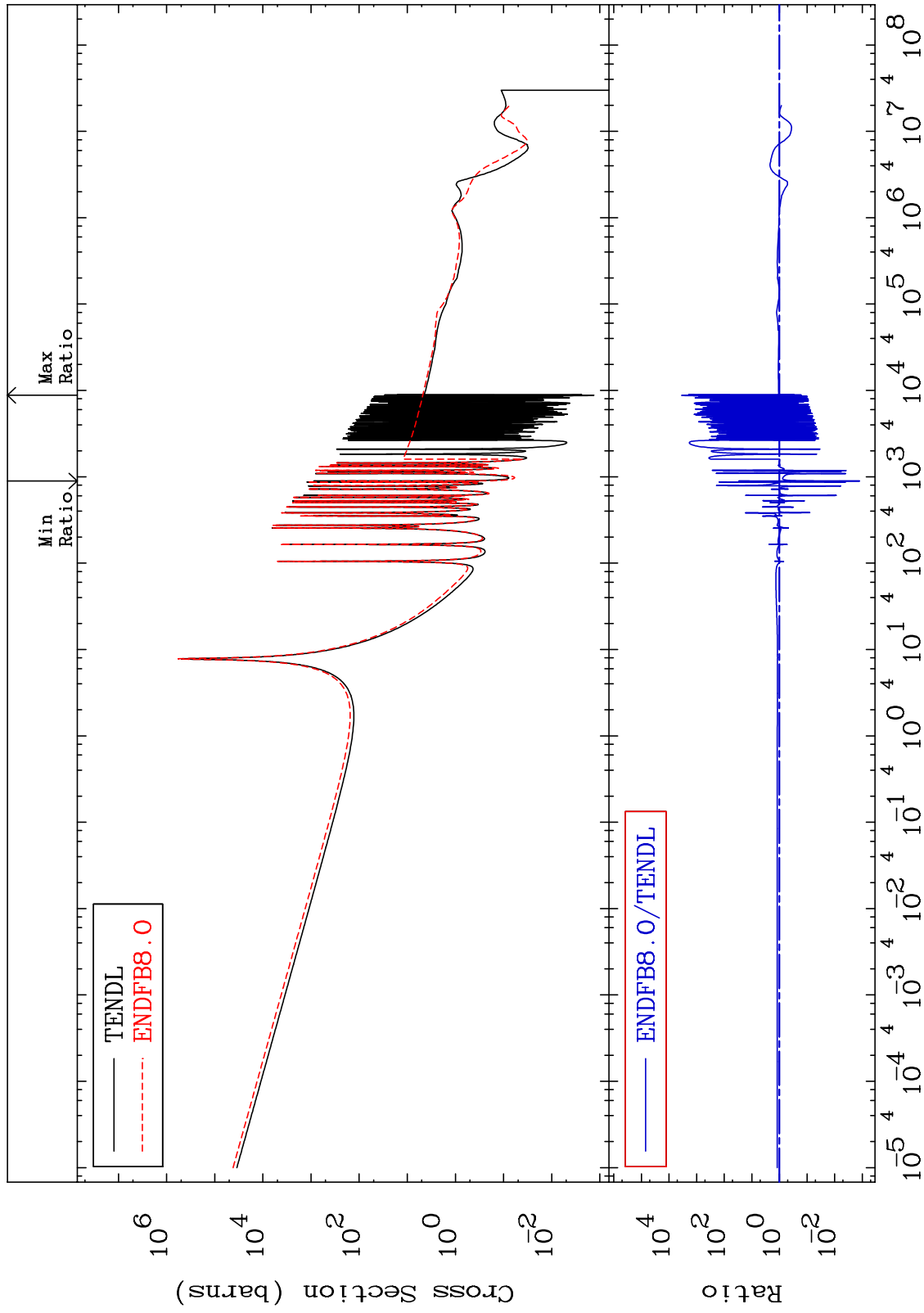




MAT 7237

Kerma capture (mt102)  
Cross Section

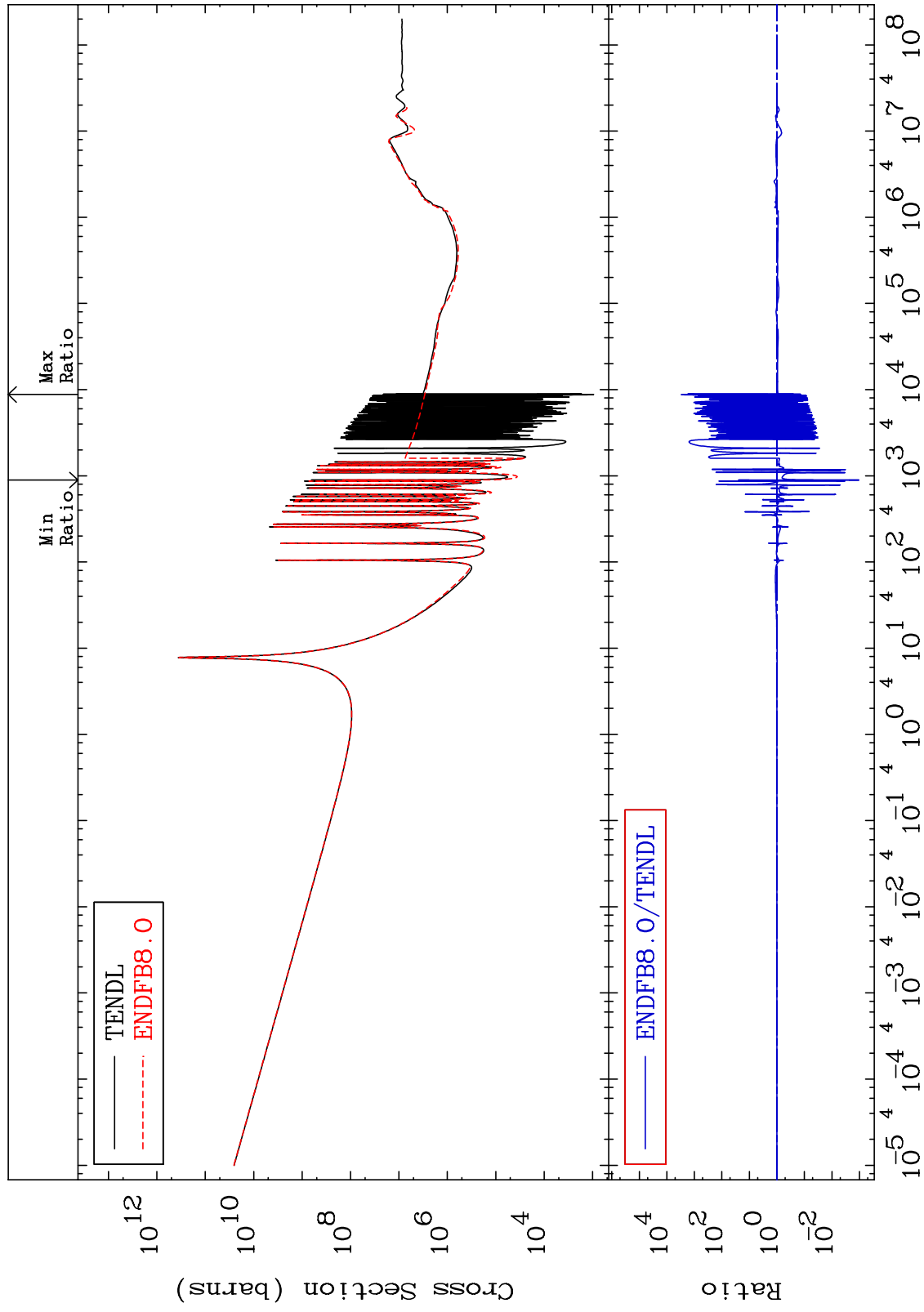
72-Hf-178  
-99.88 To 9999. %



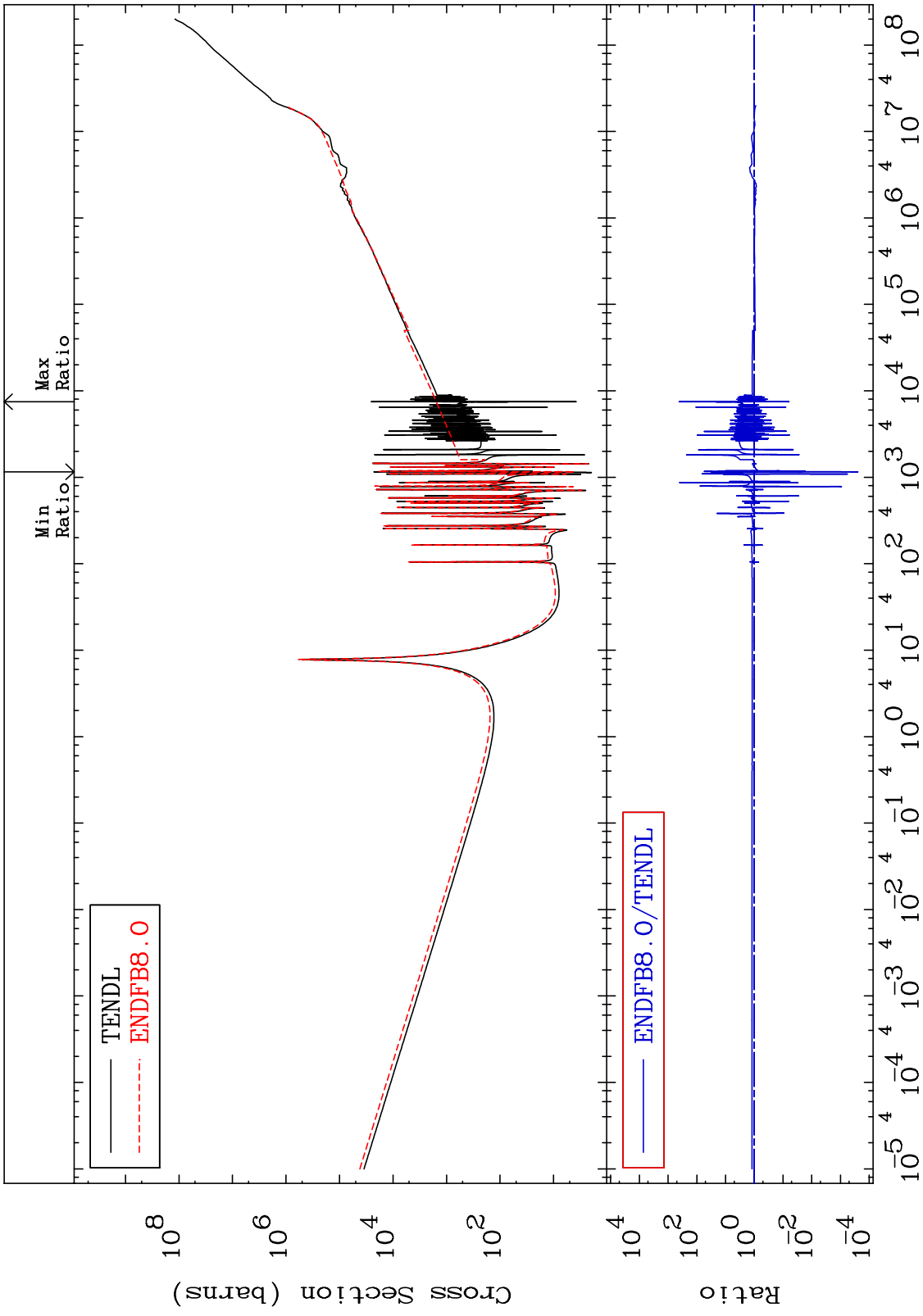
MAT 7237

Total photon (eV-barns)  
Cross Section

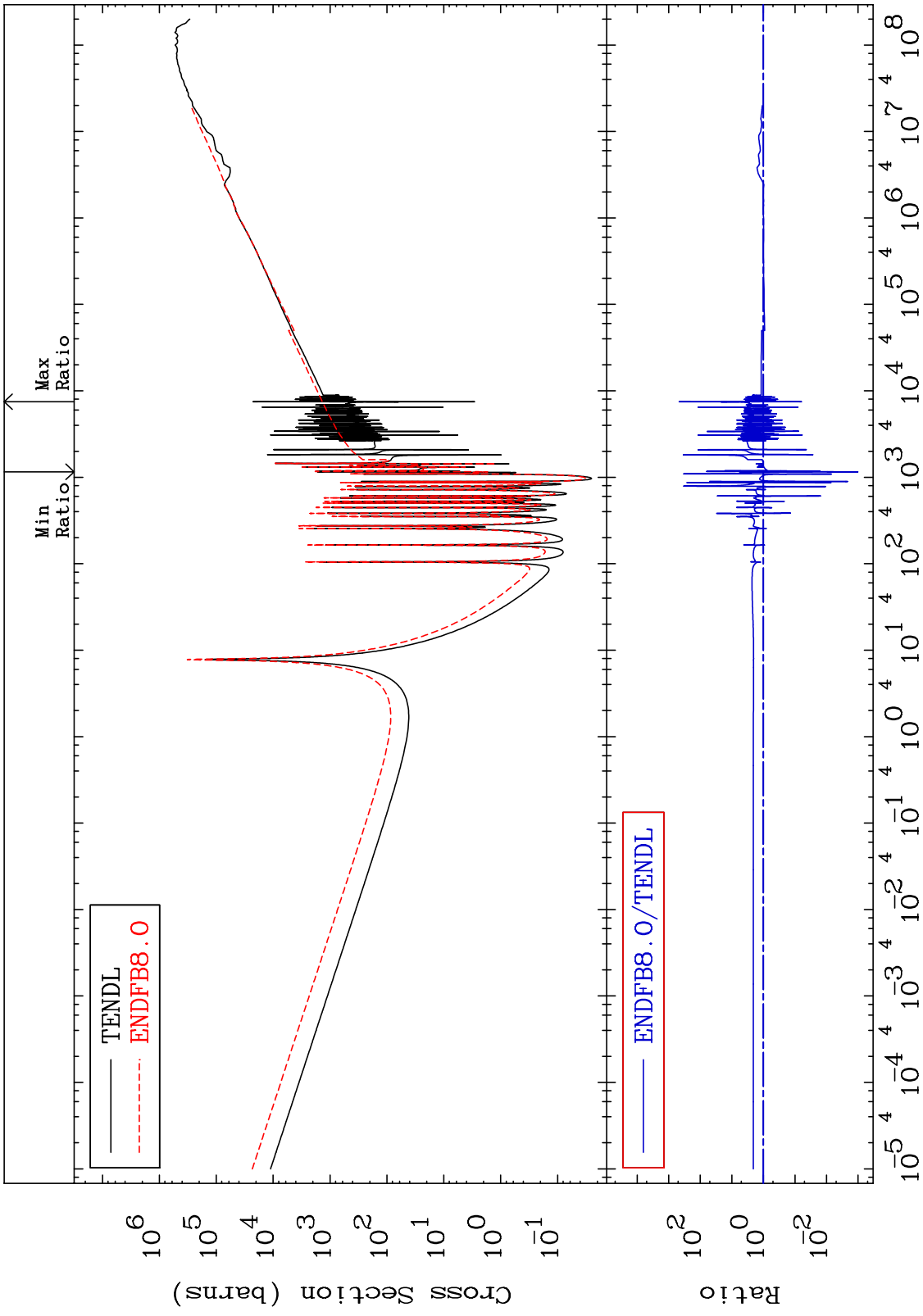
72-Hf-178  
-99.90 To 9999. %



MAT 7237      Total kinematic kerma (high limit)      72-Hf-178  
 Cross Section      -99.98 To 9999. %



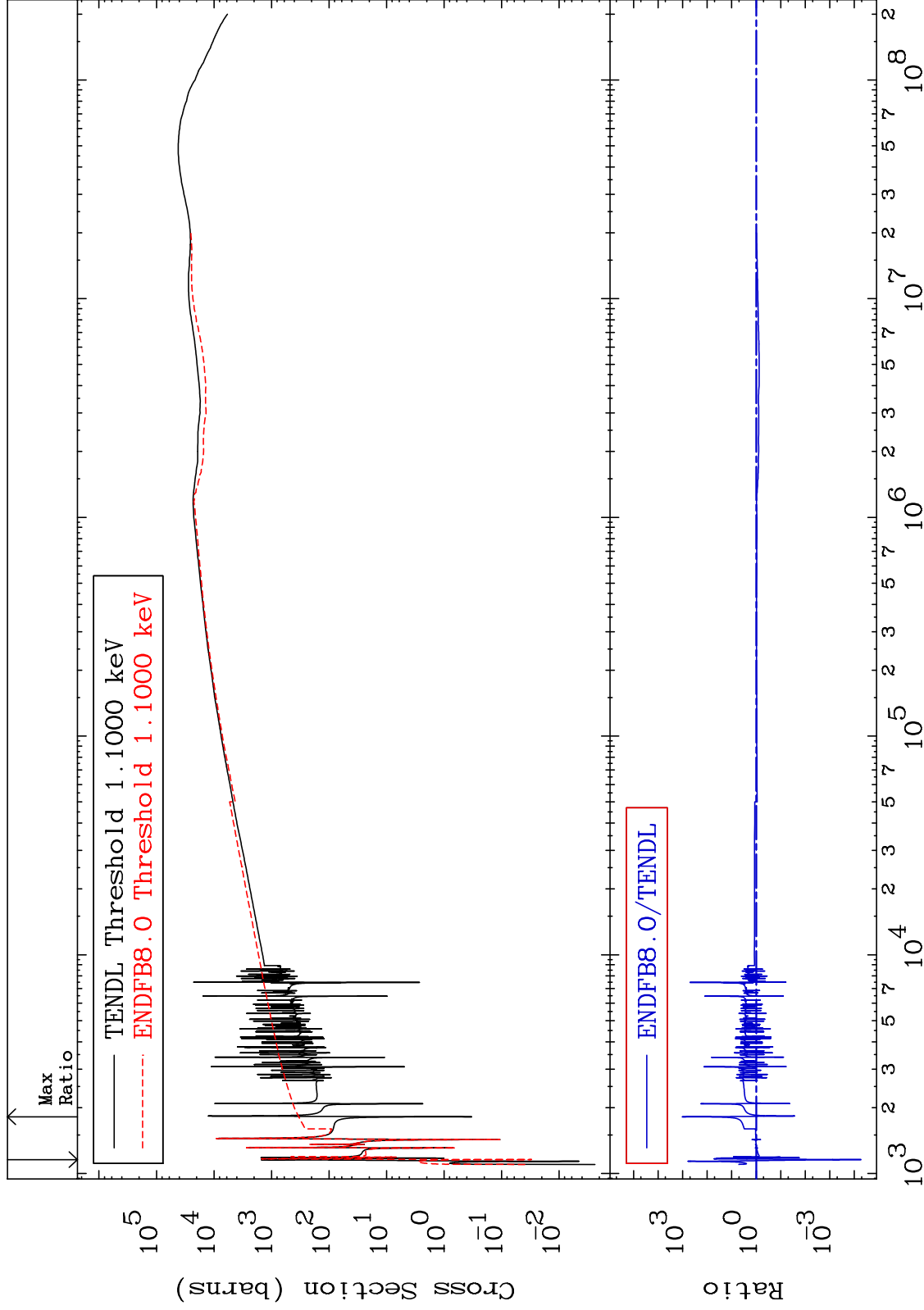
MAT 7237      Dpa total (eV-barns)      72-Hf-178  
 Cross Section      -99.90 To 9999. %



MAT 7237

Dpa elastic (mt2)  
Cross Section

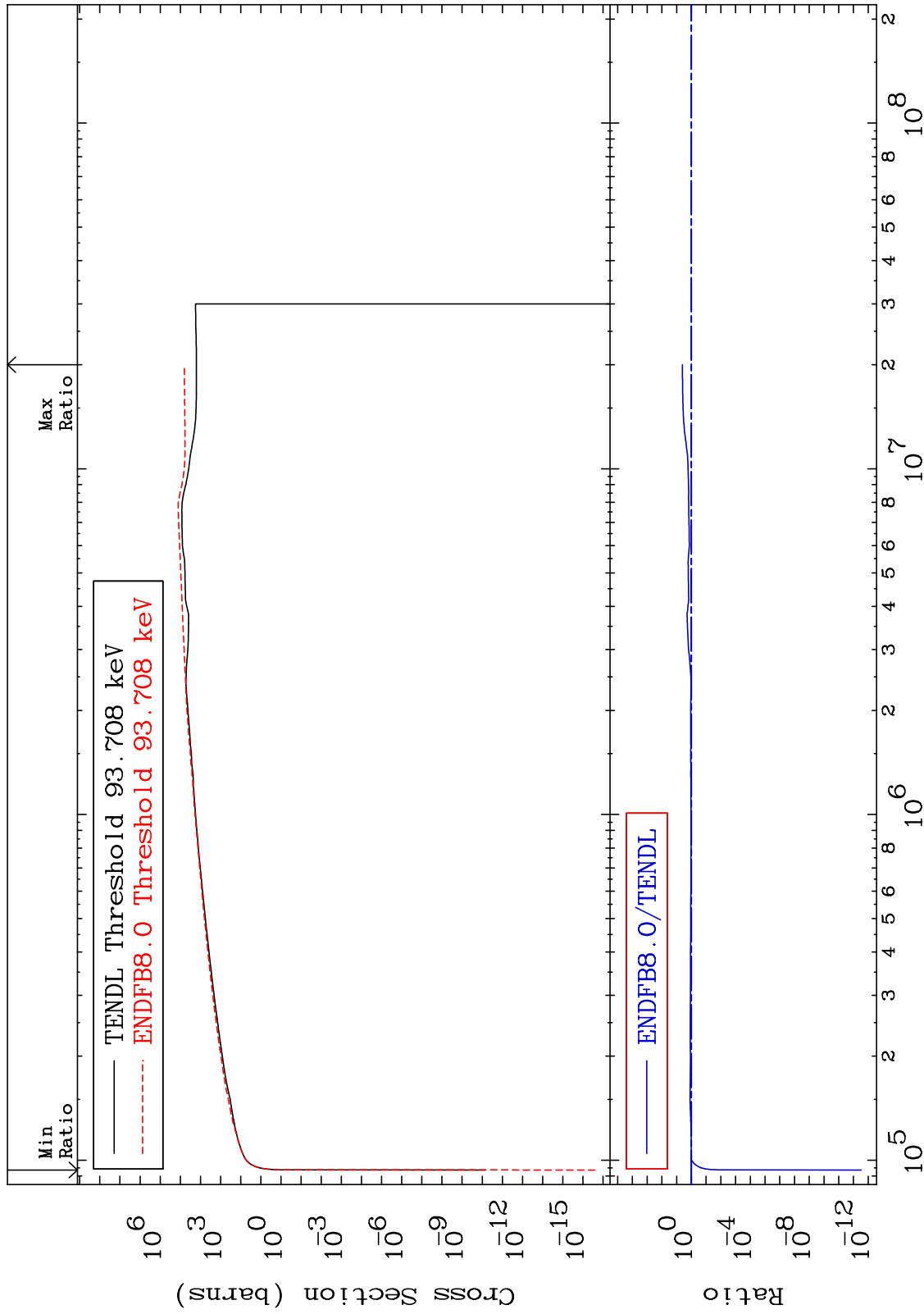
72-Hf-178  
-99.99 To 9999. %



MAT 7237

Dpa inelastic (mt51-91)  
Cross Section

72-Hf-178  
-100.0 To 302.5 %



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Incident Energy (eV)

72-Hf-178

