

Program Complot  
(Version 2018-1)

by

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U.S.A.

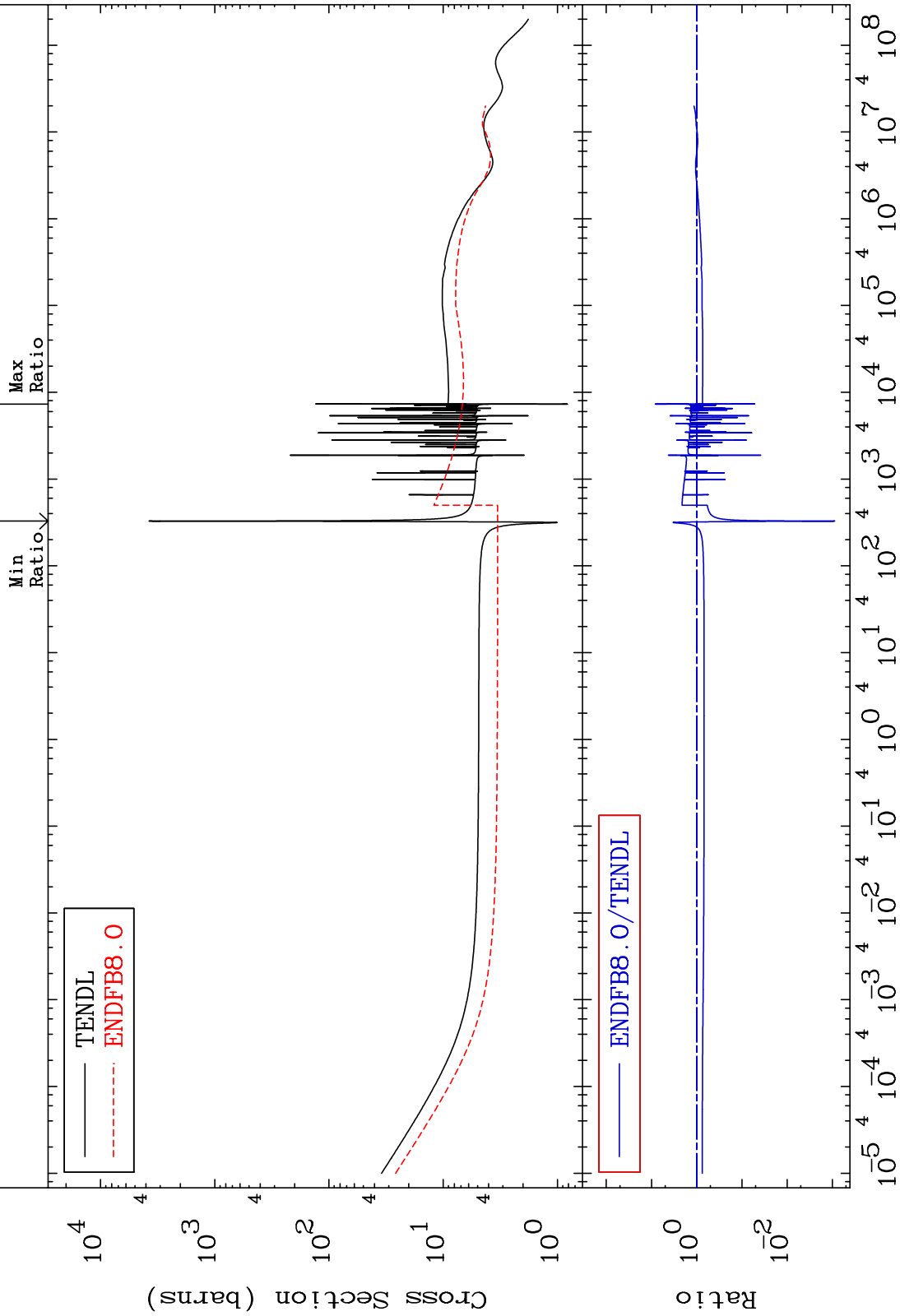
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E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 4455 44-Ru-106 -99.91 To 729.6 %

Total Cross Section

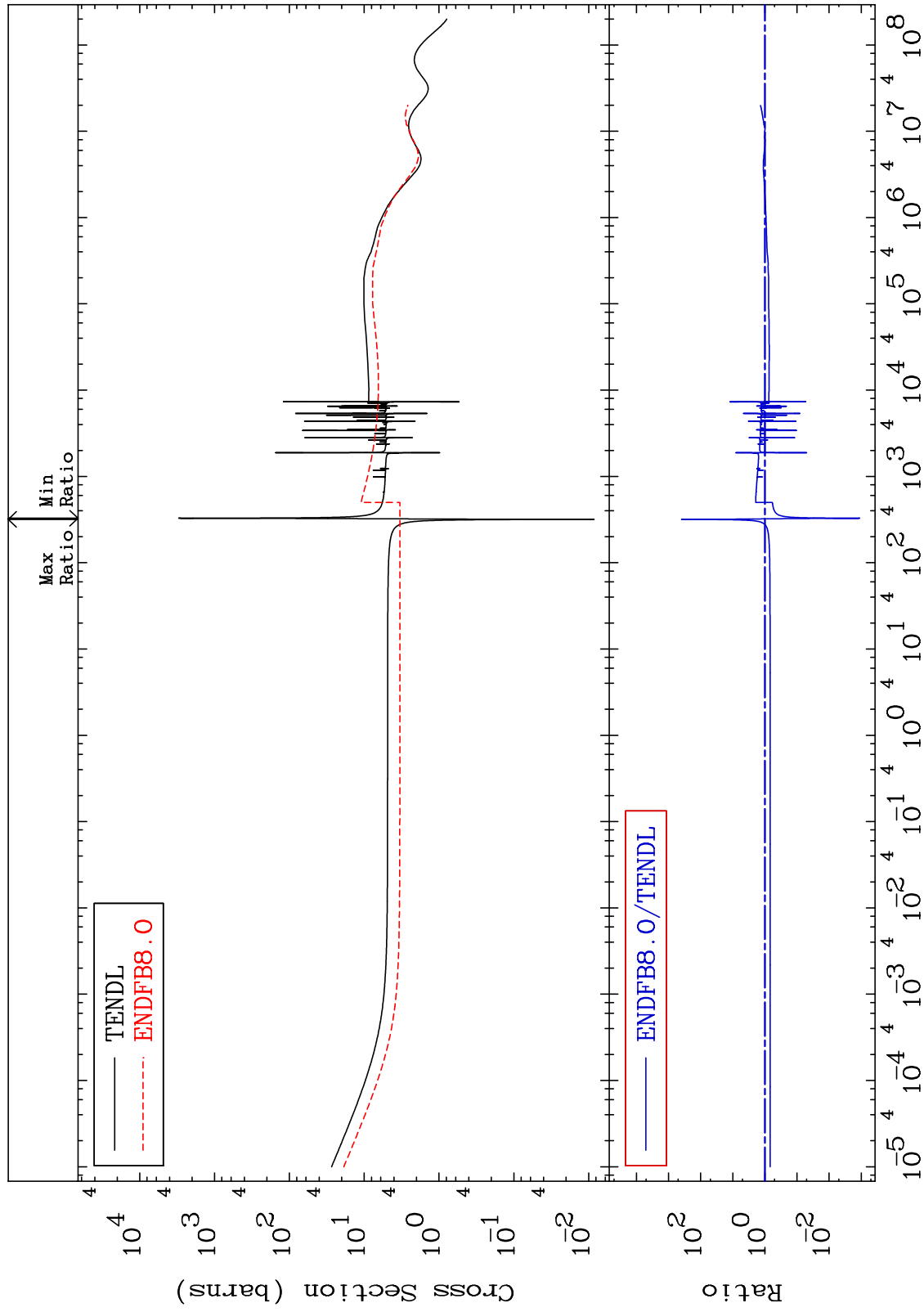


Incident Energy (eV) 44-Ru-106

MAT 4455

Elastic  
Cross Section

44-Ru-106  
-99.89 To 9999. %



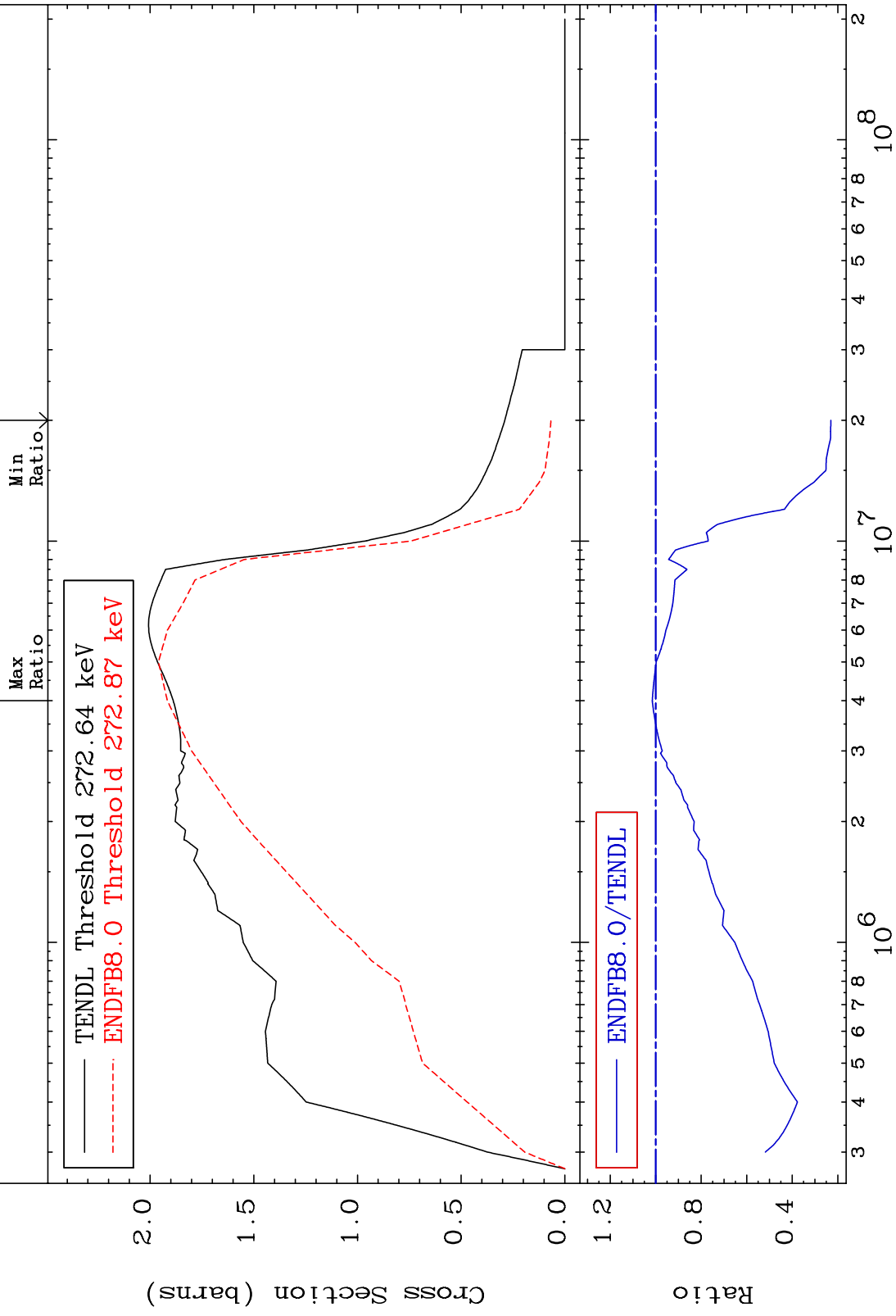
2

Incident Energy (eV)

44-Ru-106

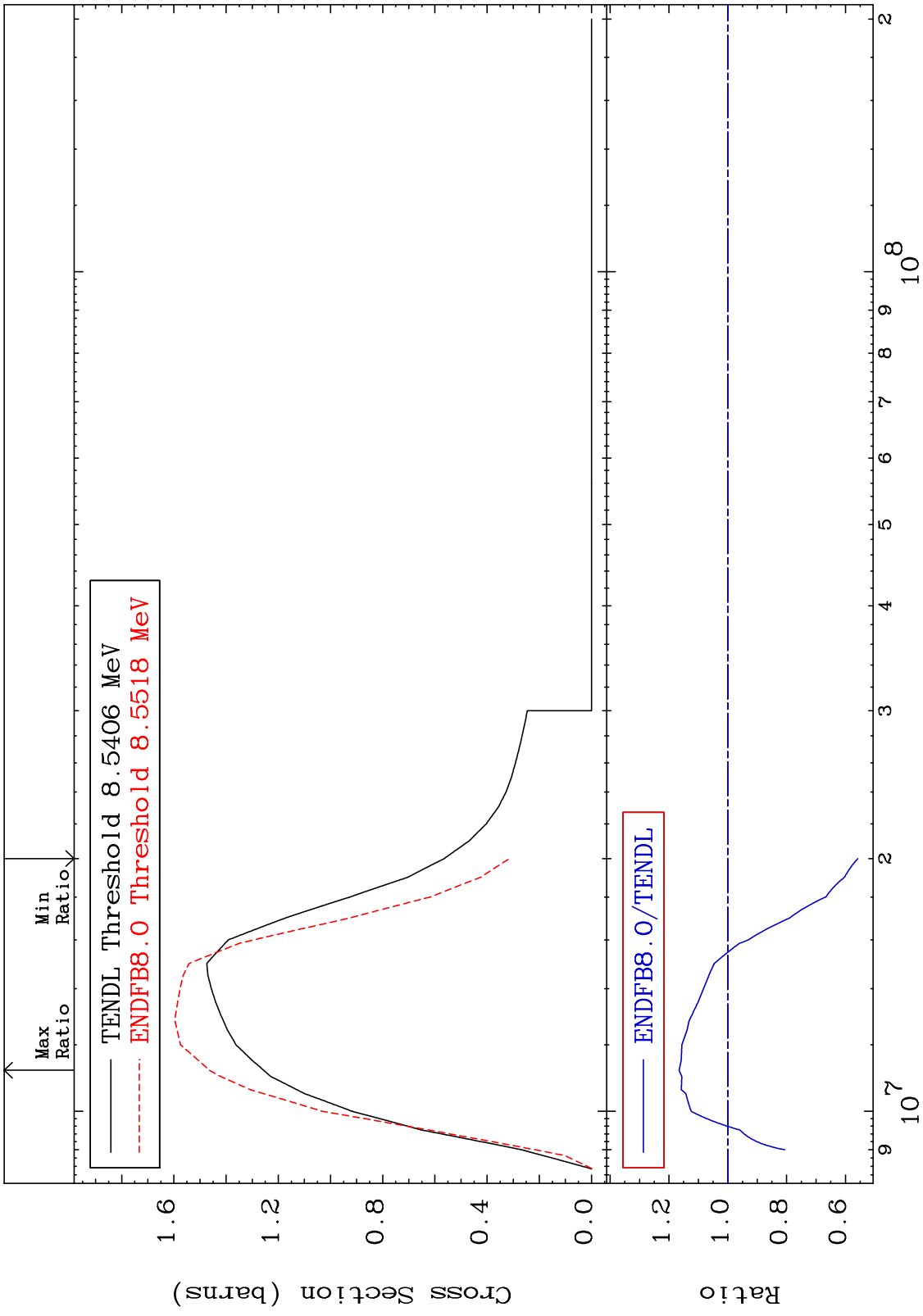
MAT 4455 44-Ru-106 -76.99 To 1.516 %

Inelastic  
Cross Section



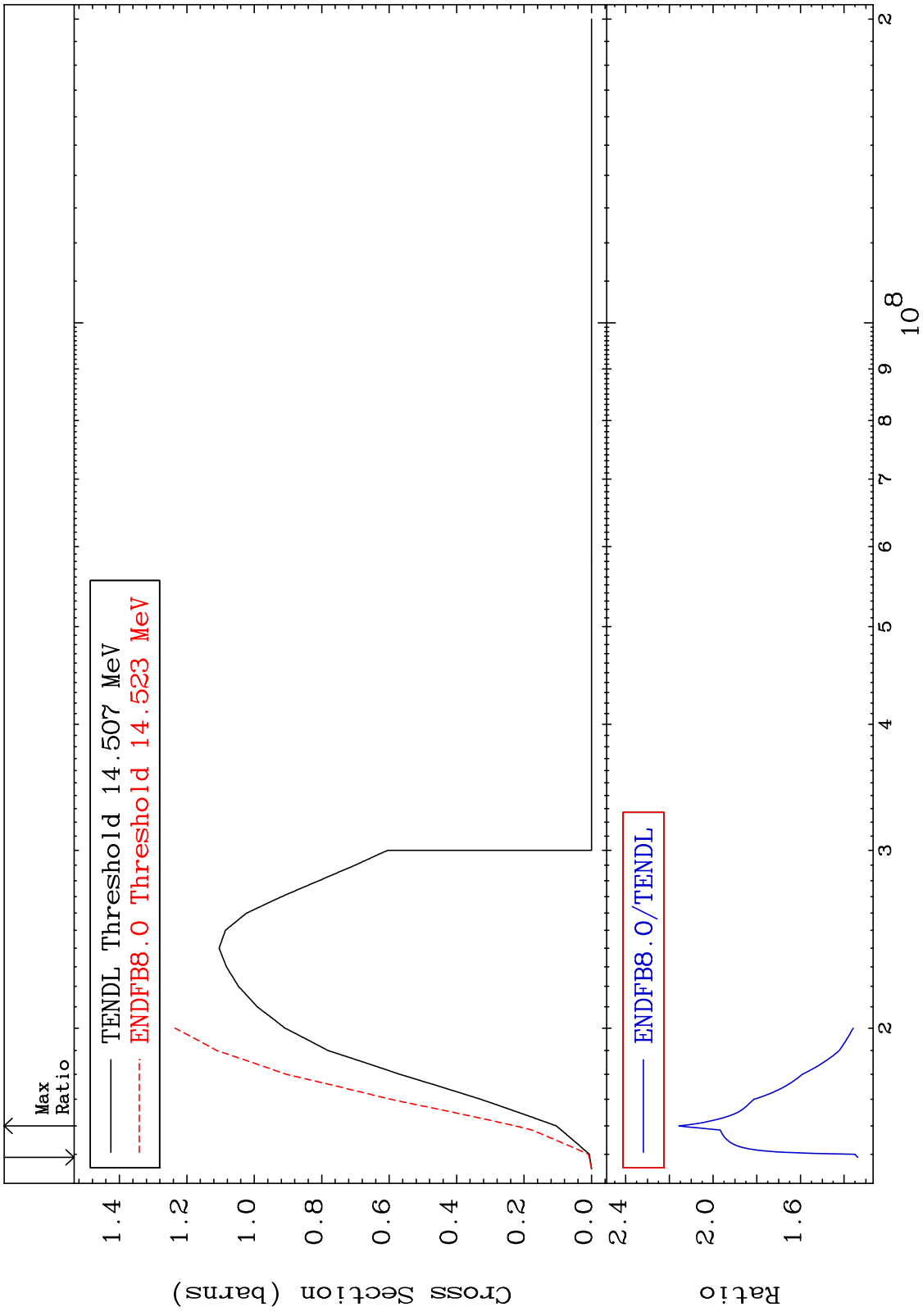
3 44-Ru-106

MAT 4455 (n,2n) Cross Section 44-Ru-106 -44.20 To 16.57 %



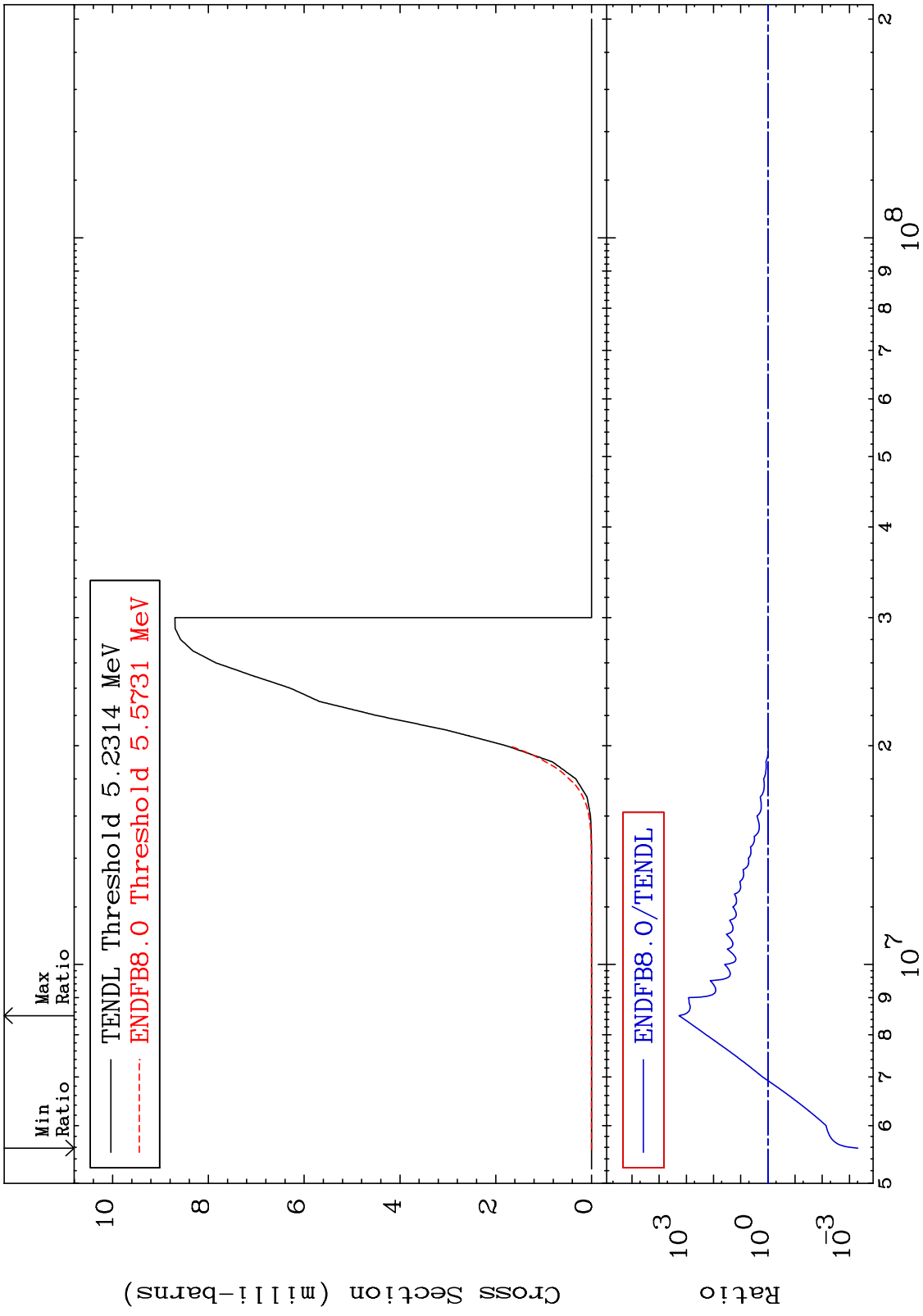
4 44-Ru-106 Incident Energy (eV)

MAT 4455 (n,3n) Cross Section 44-Ru-106 To 115.6 % 33.72



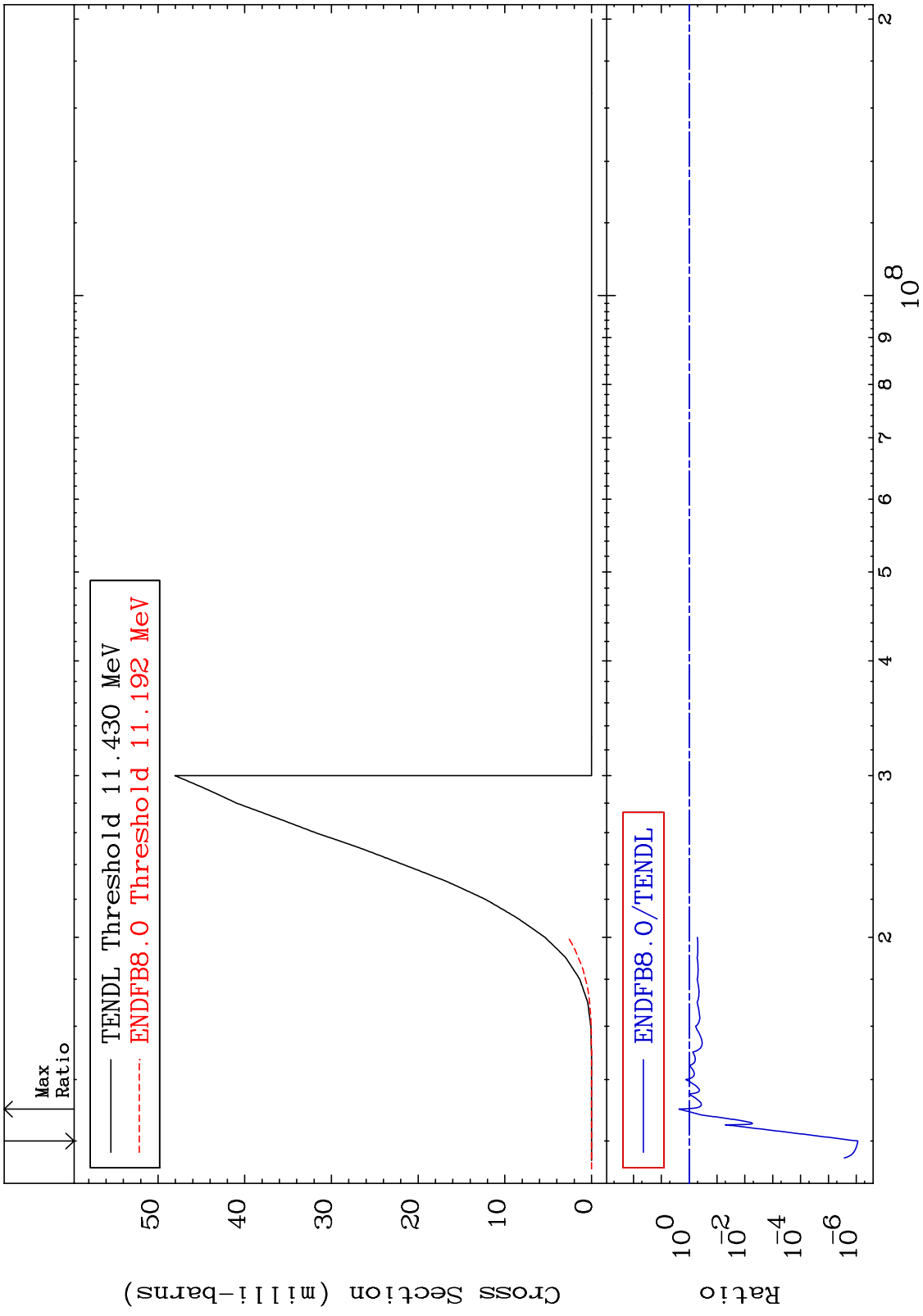
5 44-Ru-106

MAT 4455  $(n, n') \alpha$  44-Ru-106  
 Cross Section -99.95 To 9999. %



6 44-Ru-106

MAT 4455 (n,n') p Cross Section 44-Ru-106 -100.0 To 131.3 %

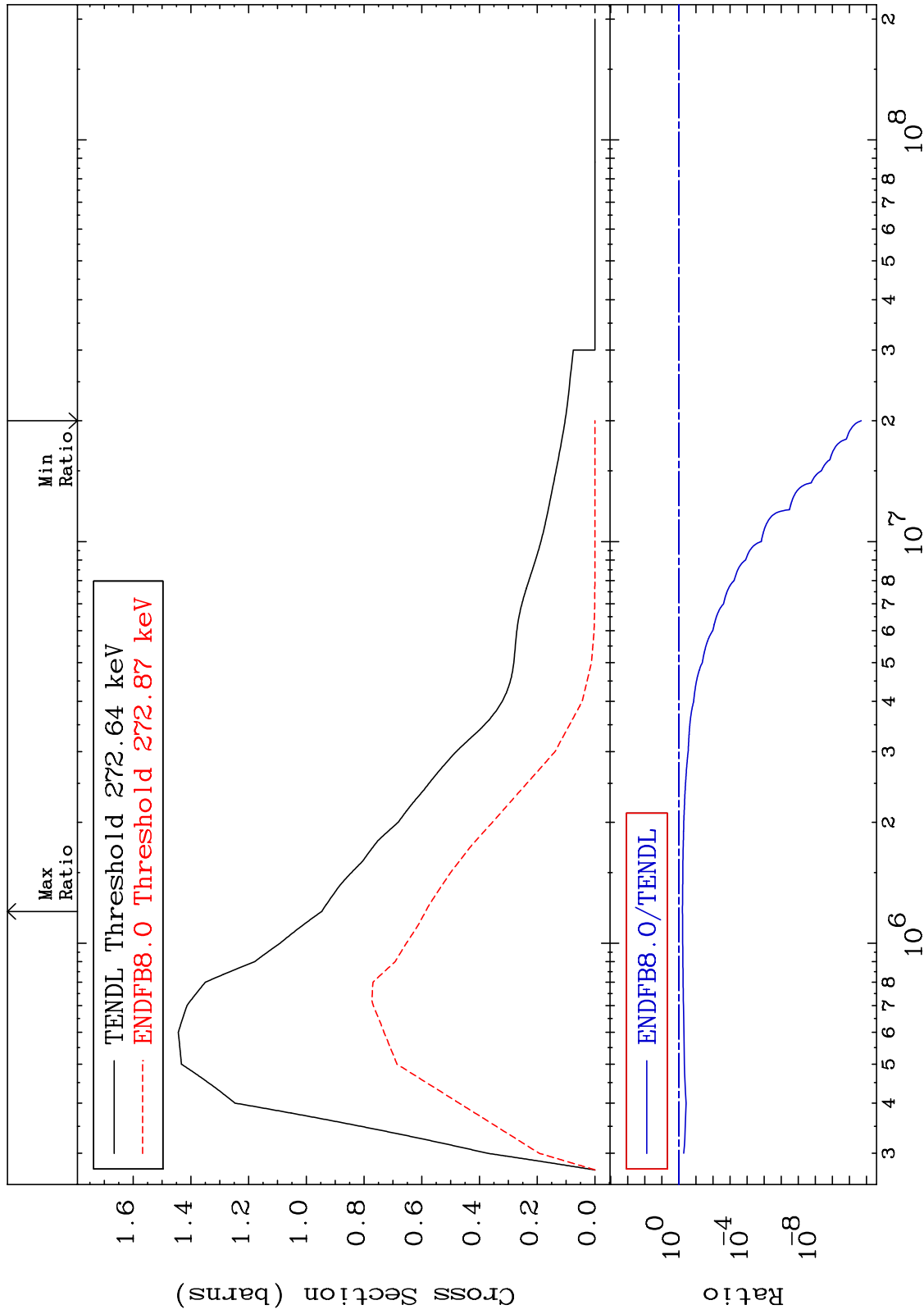




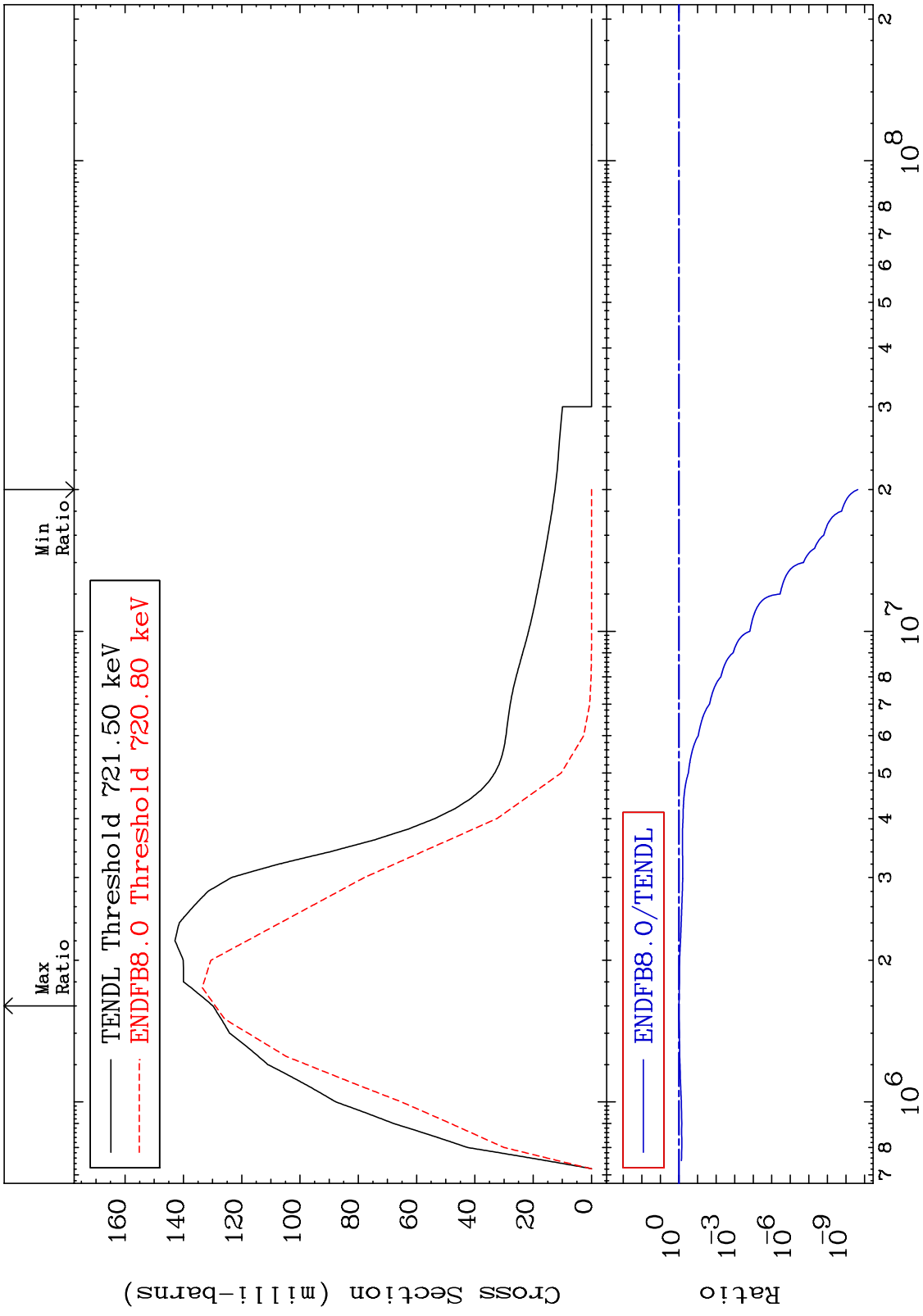
MAT 4455

MT= 51 (n,n') Level  
Cross Section

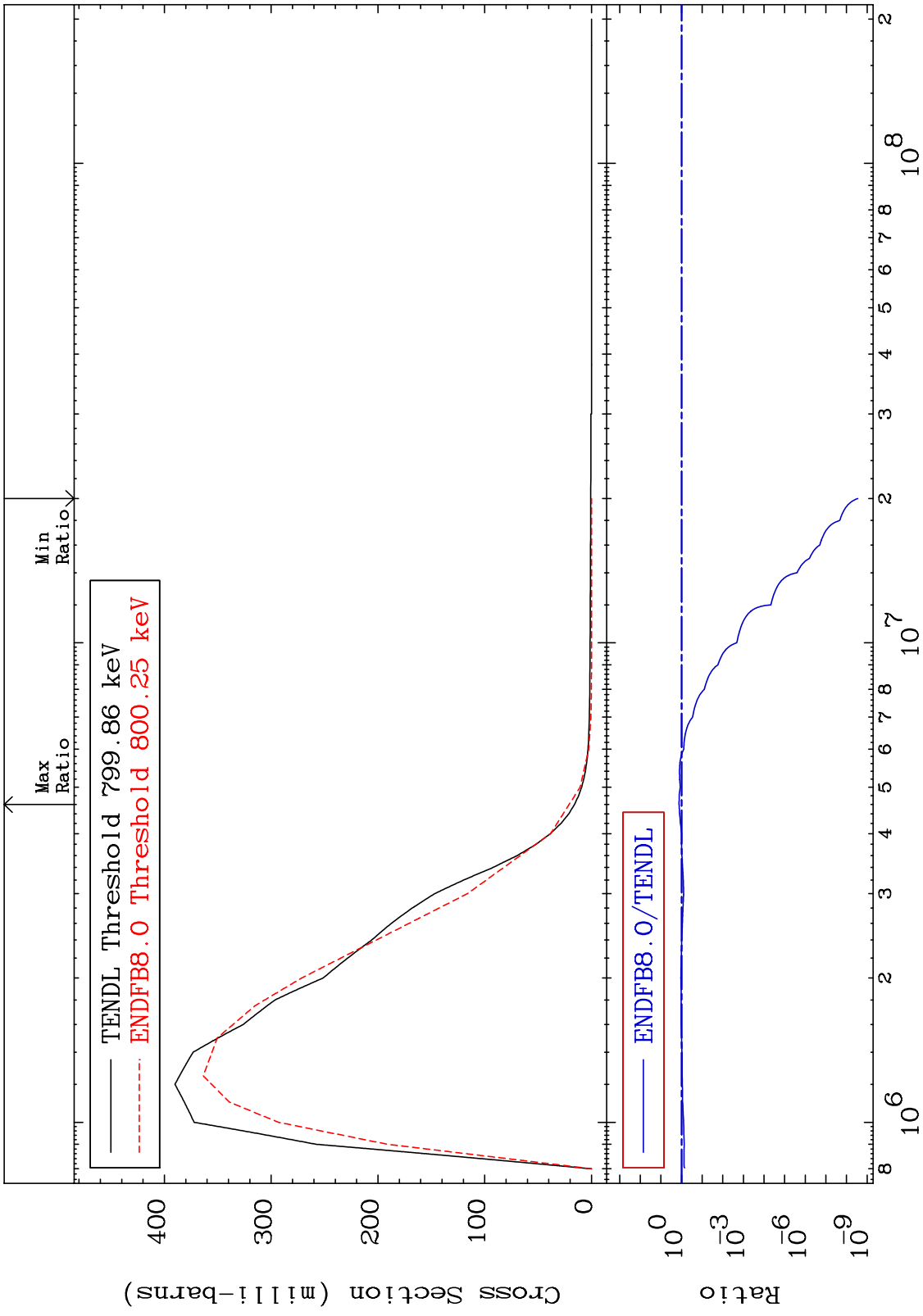
44-Ru-106  
-100.0 To -38.00%



MAT 4455 MT= 52 (n,n') Level Cross Section 44-Ru-106 -100.0 To -0.640%



MAT 4455 MT= 53 (n,n') Level Cross Section 44-Ru-106 -100.0 To 31.79 %

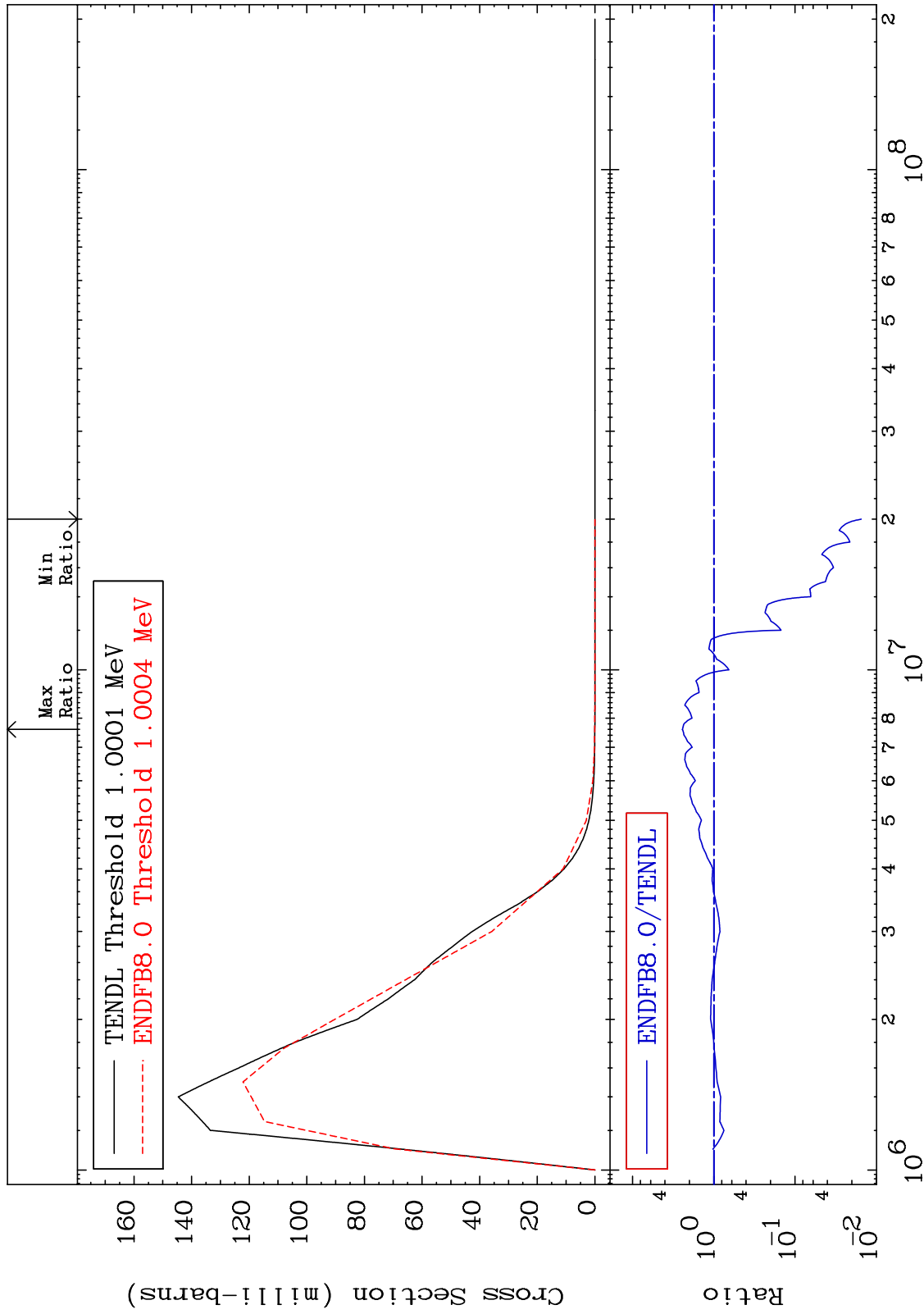


44-Ru-106

MAT 4455

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

44-Ru-106  
-98.47 To 143.1 %



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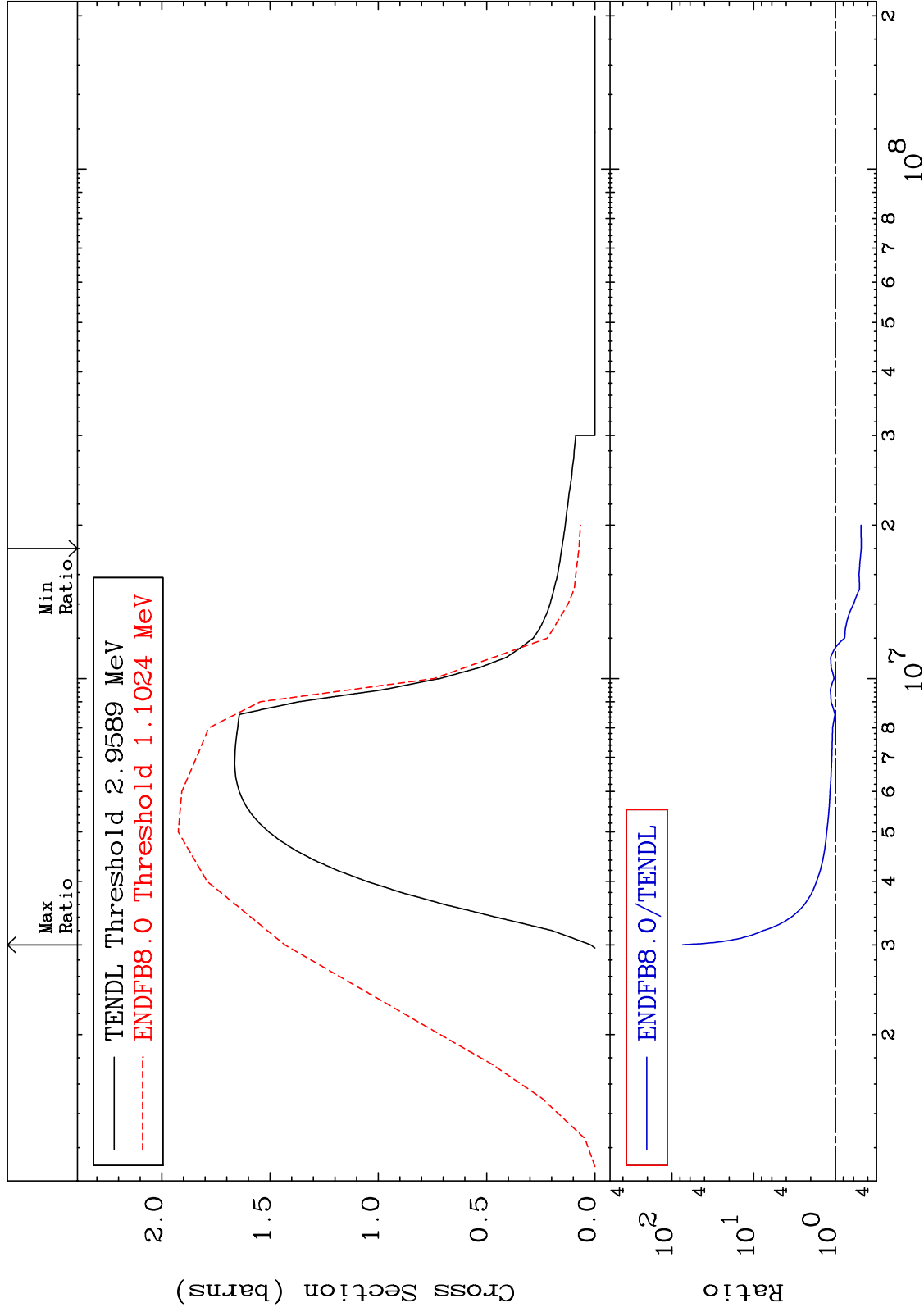
Incident Energy (eV)

44-Ru-106

MAT 4455

(n, n') Continuum  
Cross Section

44-Ru-106  
-51.83 To 7347. %



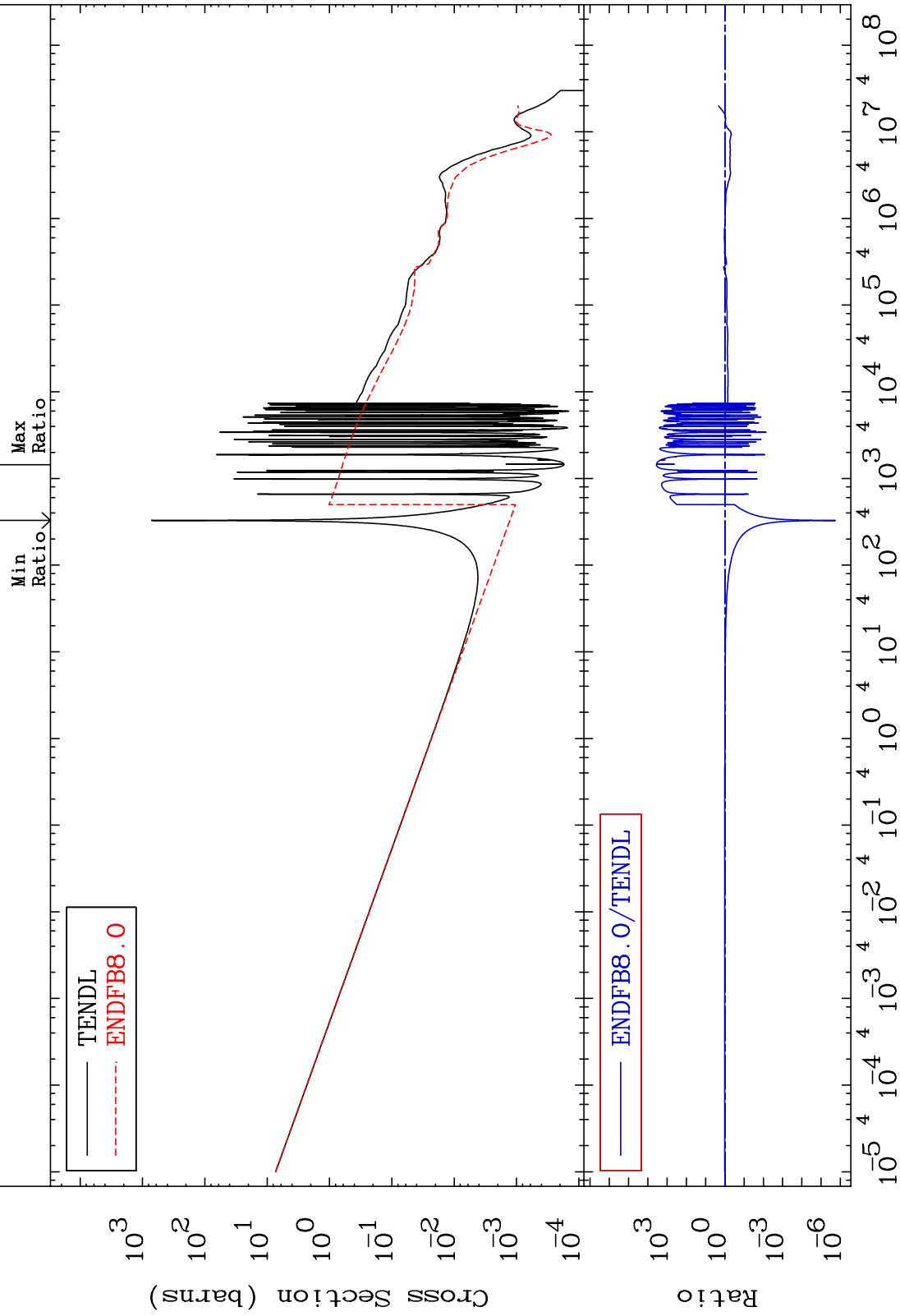
MAT 4455

(n,  $\gamma$ )

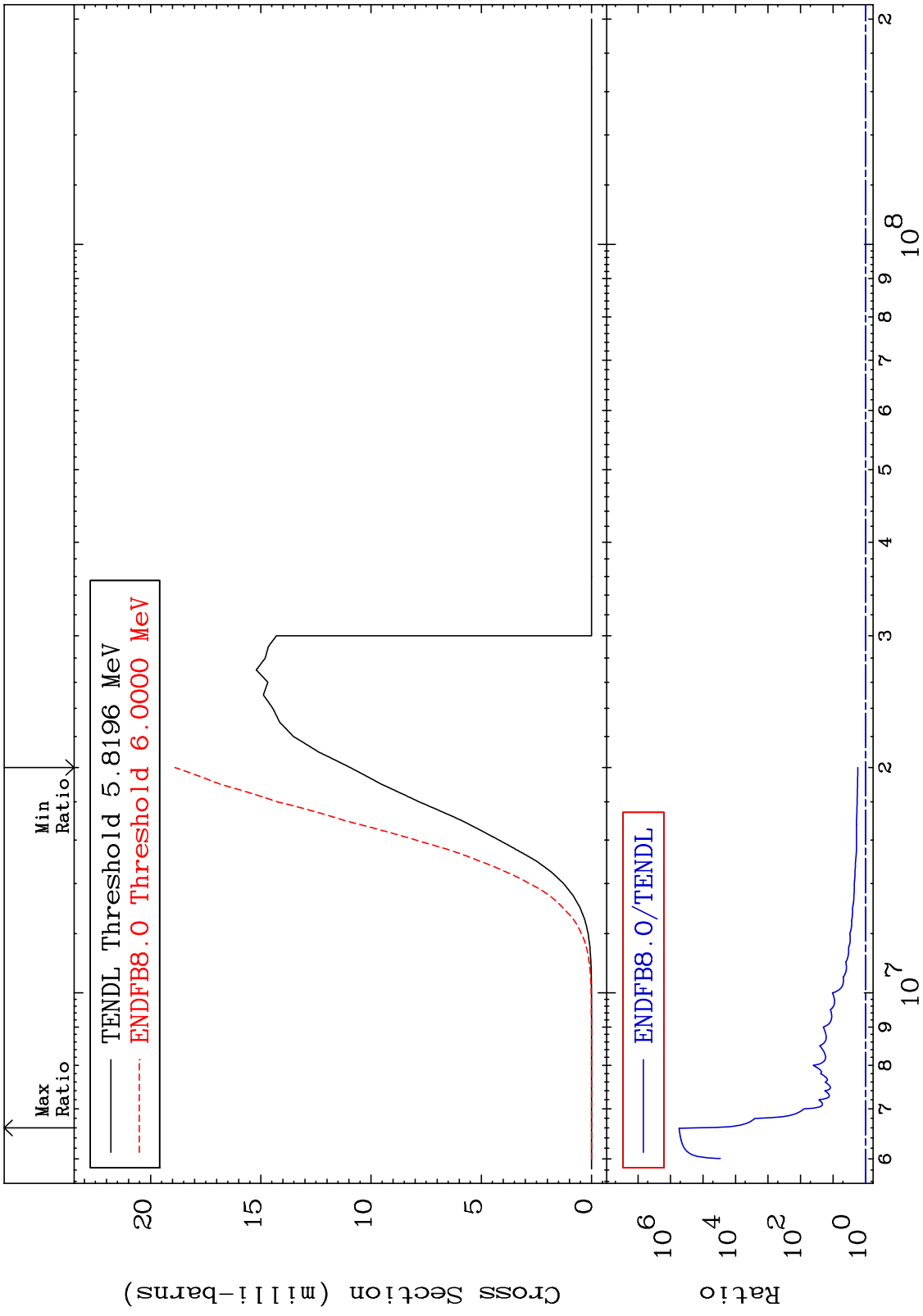
44-Ru-106

-100.0 To 9999. %

Cross Section



MAT 4455 (n,p) Cross Section 44-Ru-106 To 9999. %  
72.60



14 44-Ru-106

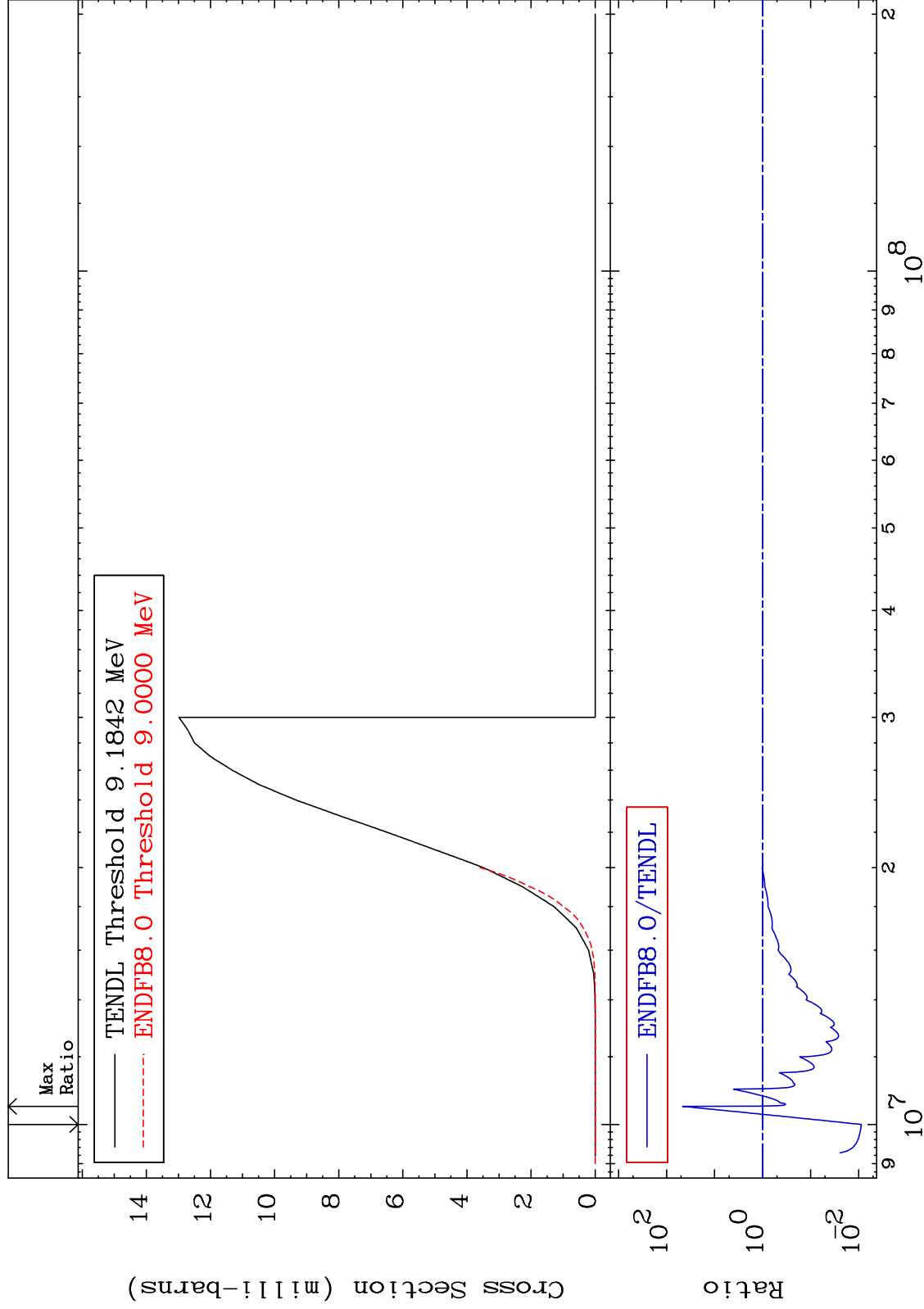
MAT 4455

(n,d)

44-Ru-106

Cross Section

-99.12 To 4524. %



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Incident Energy (eV)

44-Ru-106



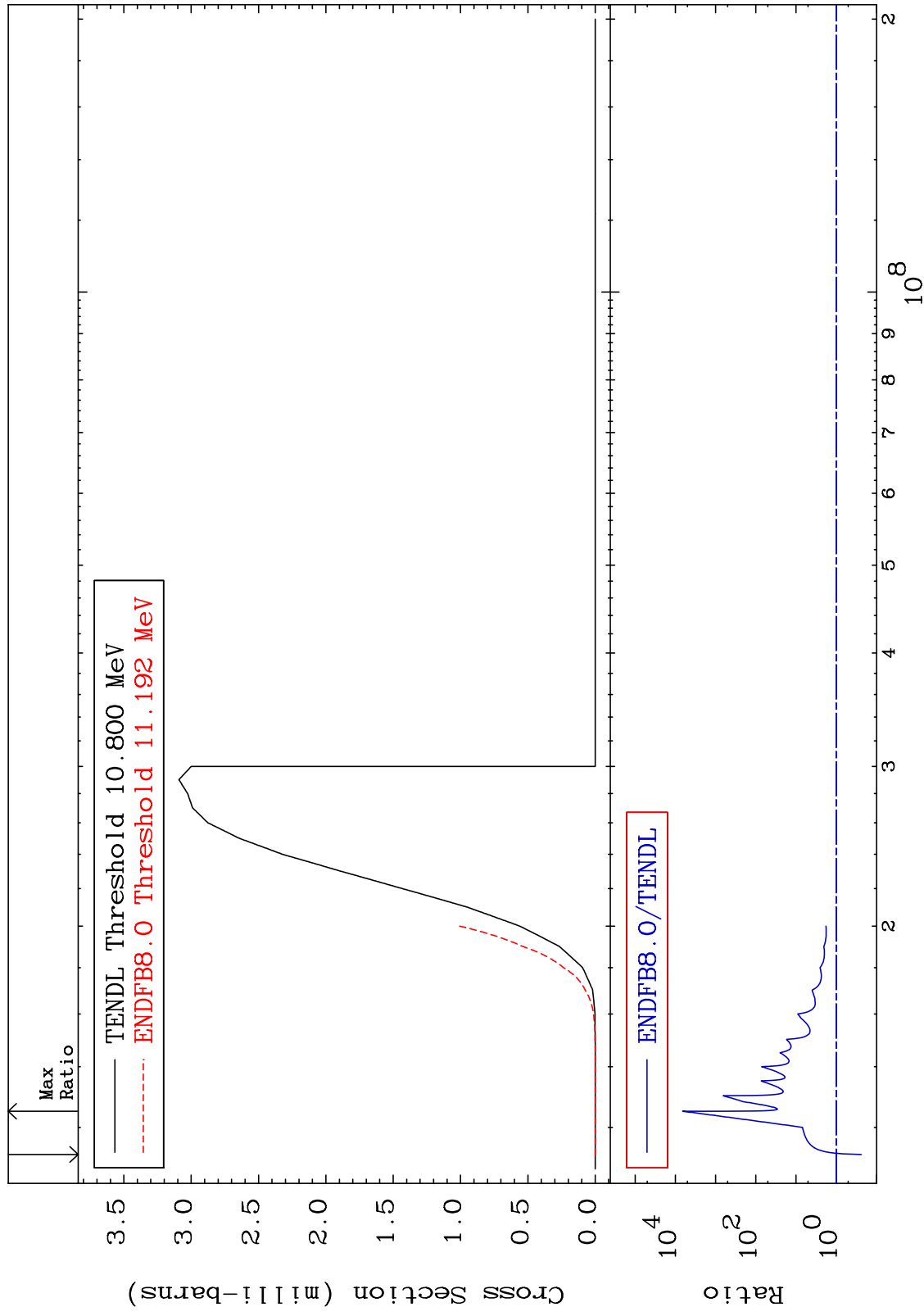
MAT 4455

(n, t)

44-Ru-106

Cross Section

-76.42 To 9999. %



MAT 4455

(n,  $\alpha$ )

44-Ru-106

-88.10 To 9999. %

Cross Section

Min Ratio

Max Ratio

TENDL Threshold 7.3925 keV  
ENDFB8.0 Threshold 1.0000 MeV

Cross Section (milli-barns)

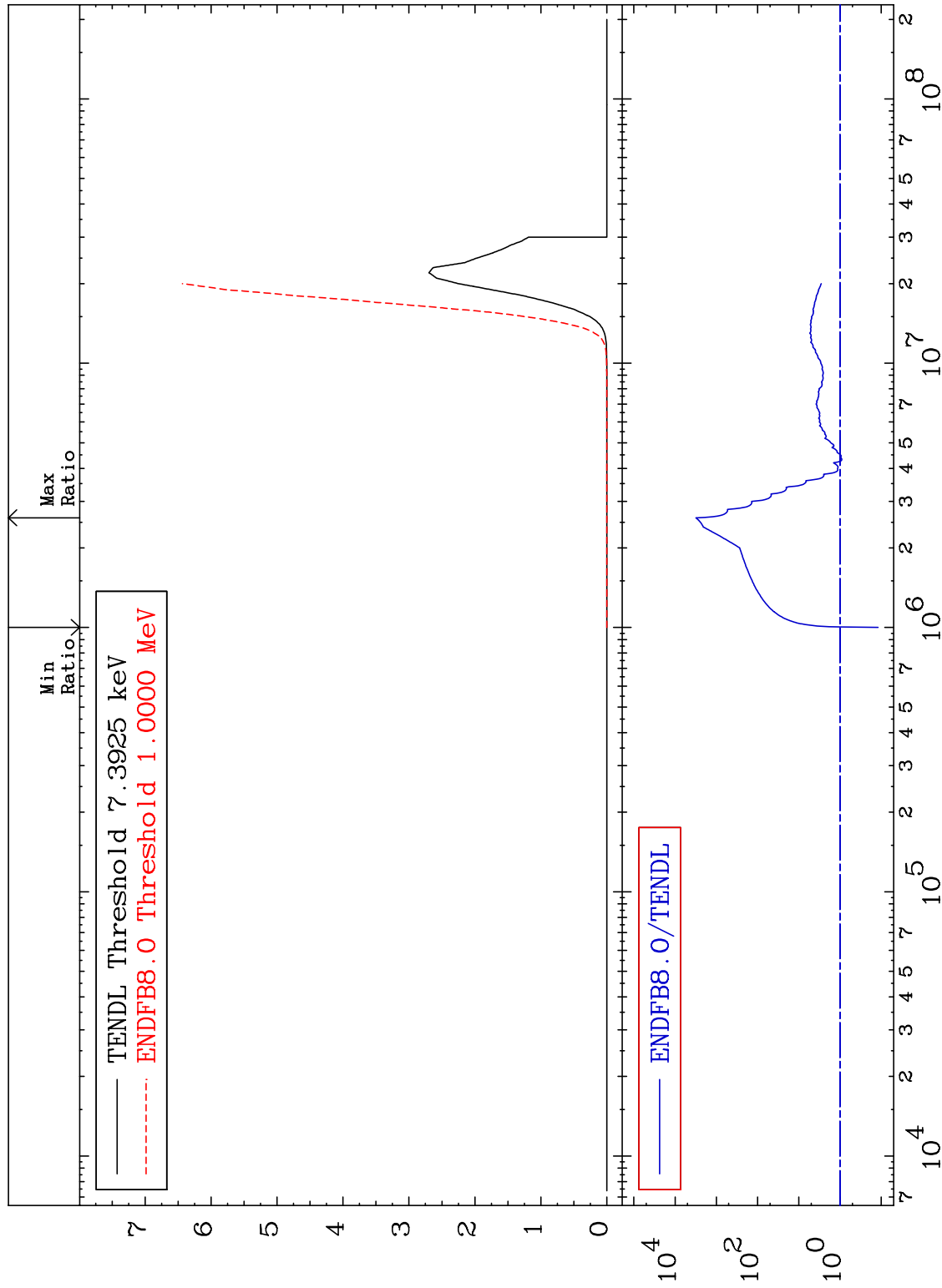
ENDFB8.0/TENDL

Ratio

17

Incident Energy (eV)

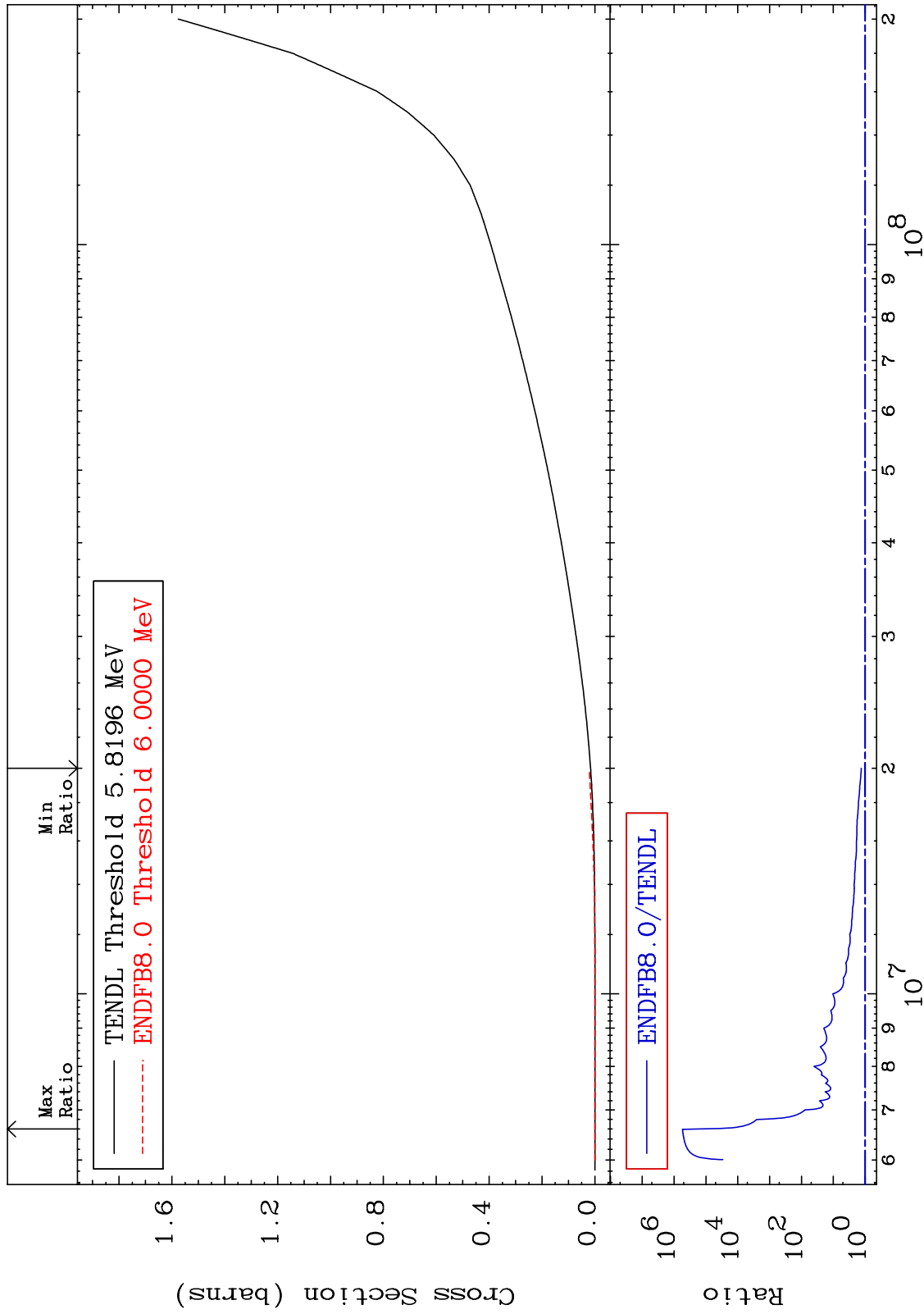
44-Ru-106



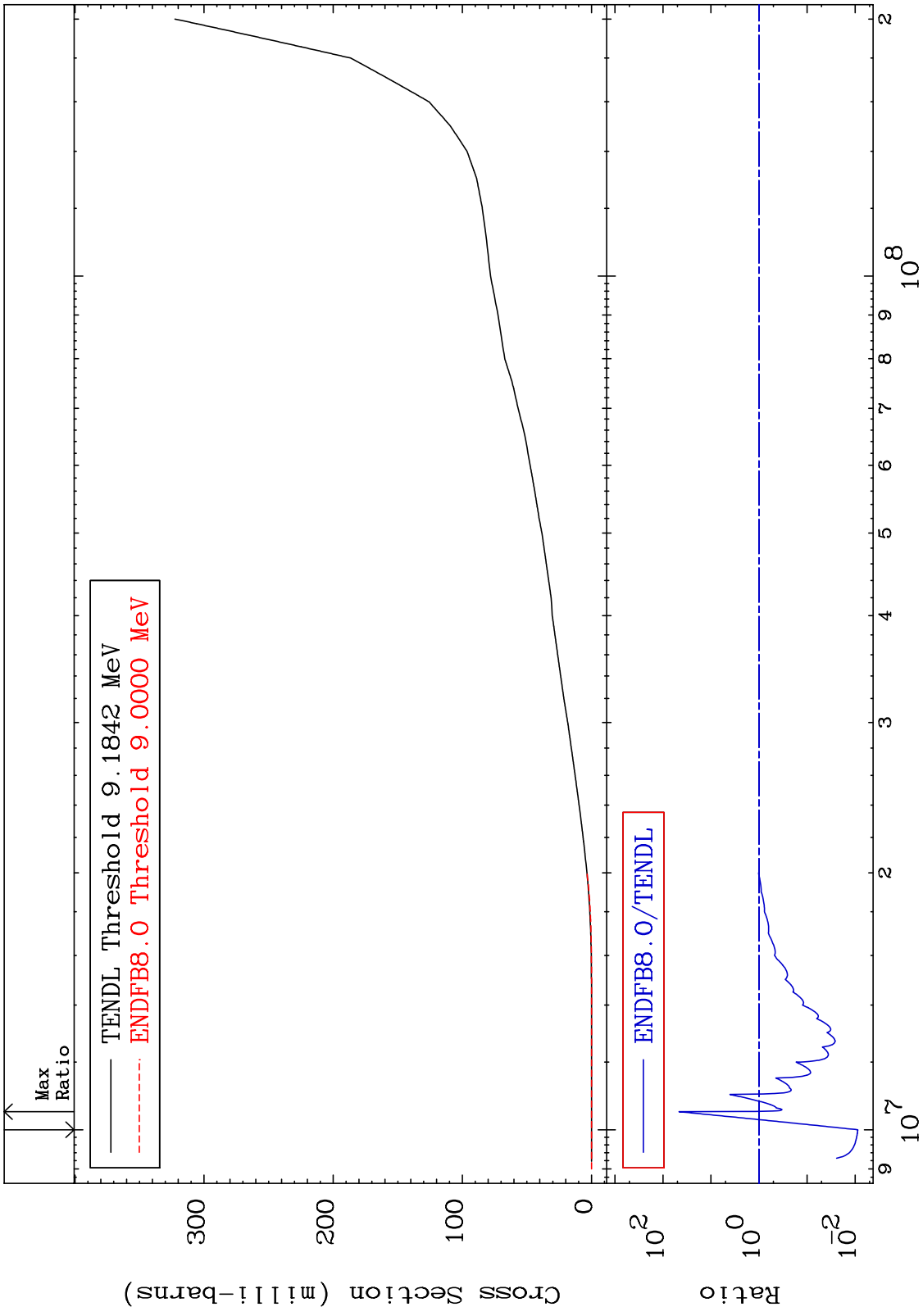
MAT 4455

Hydrogen Production  
Cross Section

44-Ru-106  
32.43 To 9999. %



MAT 4455 Deuterium Production Cross Section 44-Ru-106 -99.12 To 4524. %

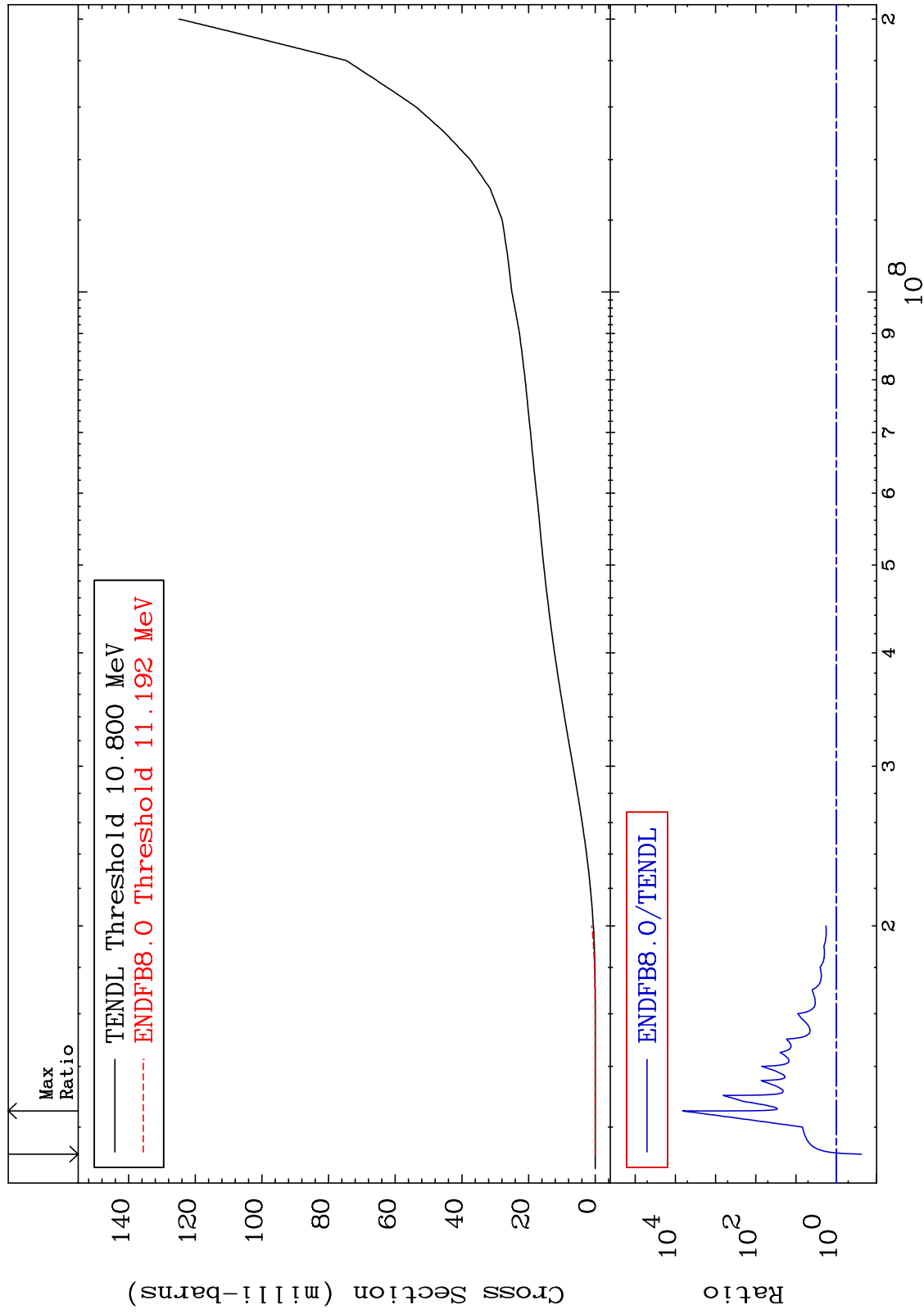


44-Ru-106 Incident Energy (eV) 19

MAT 4455

Tritium Production  
Cross Section

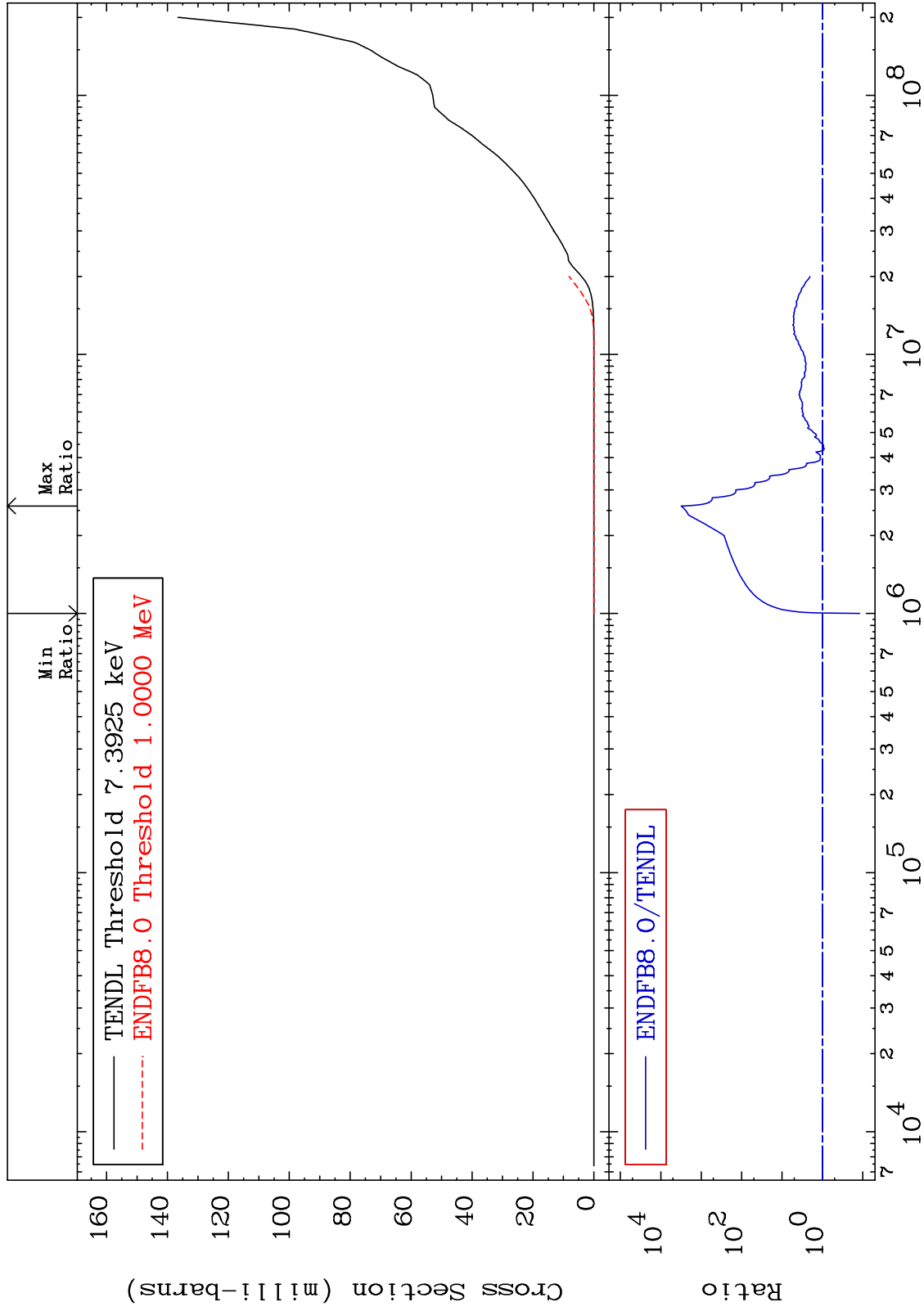
44-Ru-106  
-76.42 To 9999. %



MAT 4455

He-4 Production  
Cross Section

44-Ru-106  
-88.10 To 9999. %

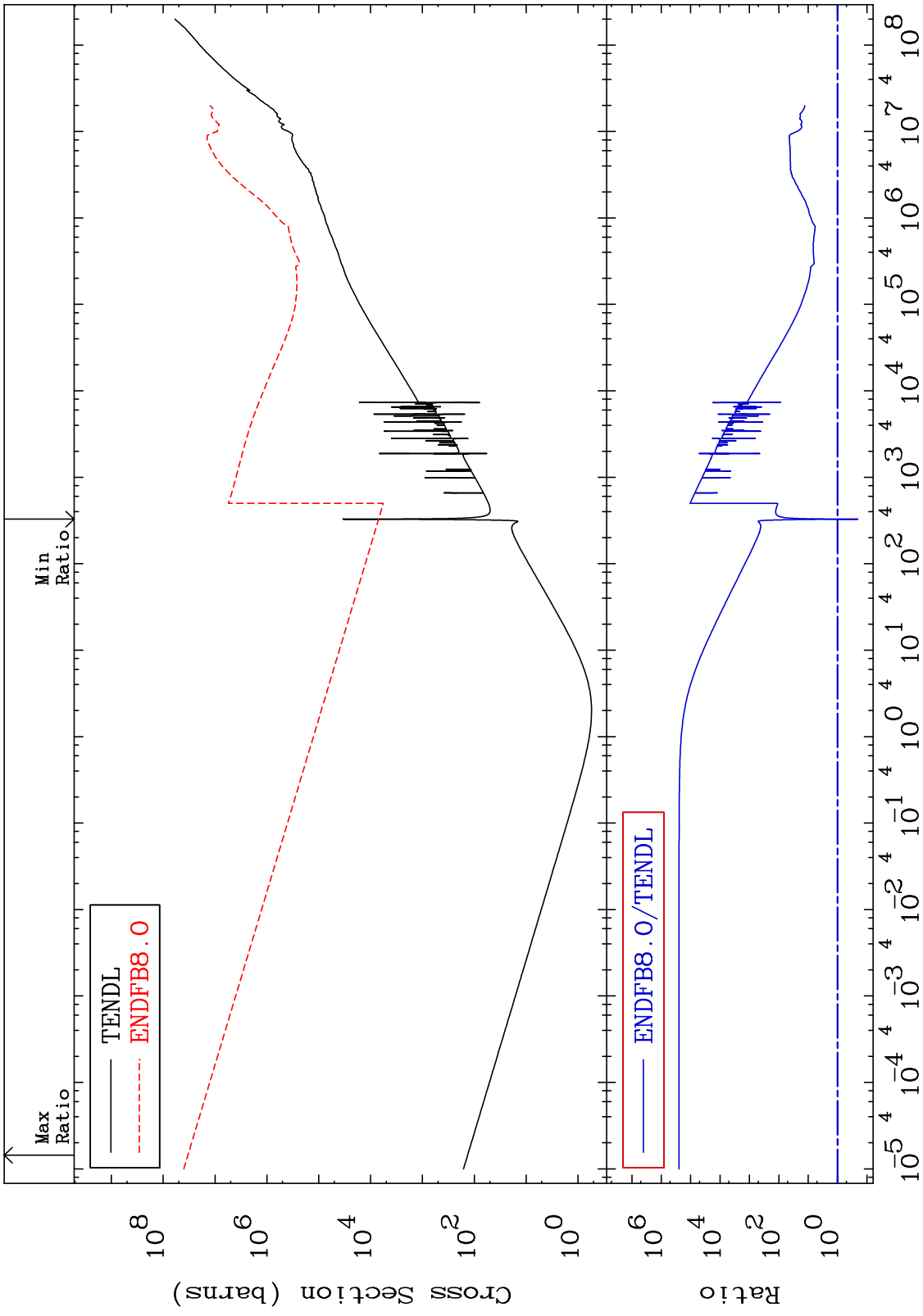


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Incident Energy (eV)

44-Ru-106

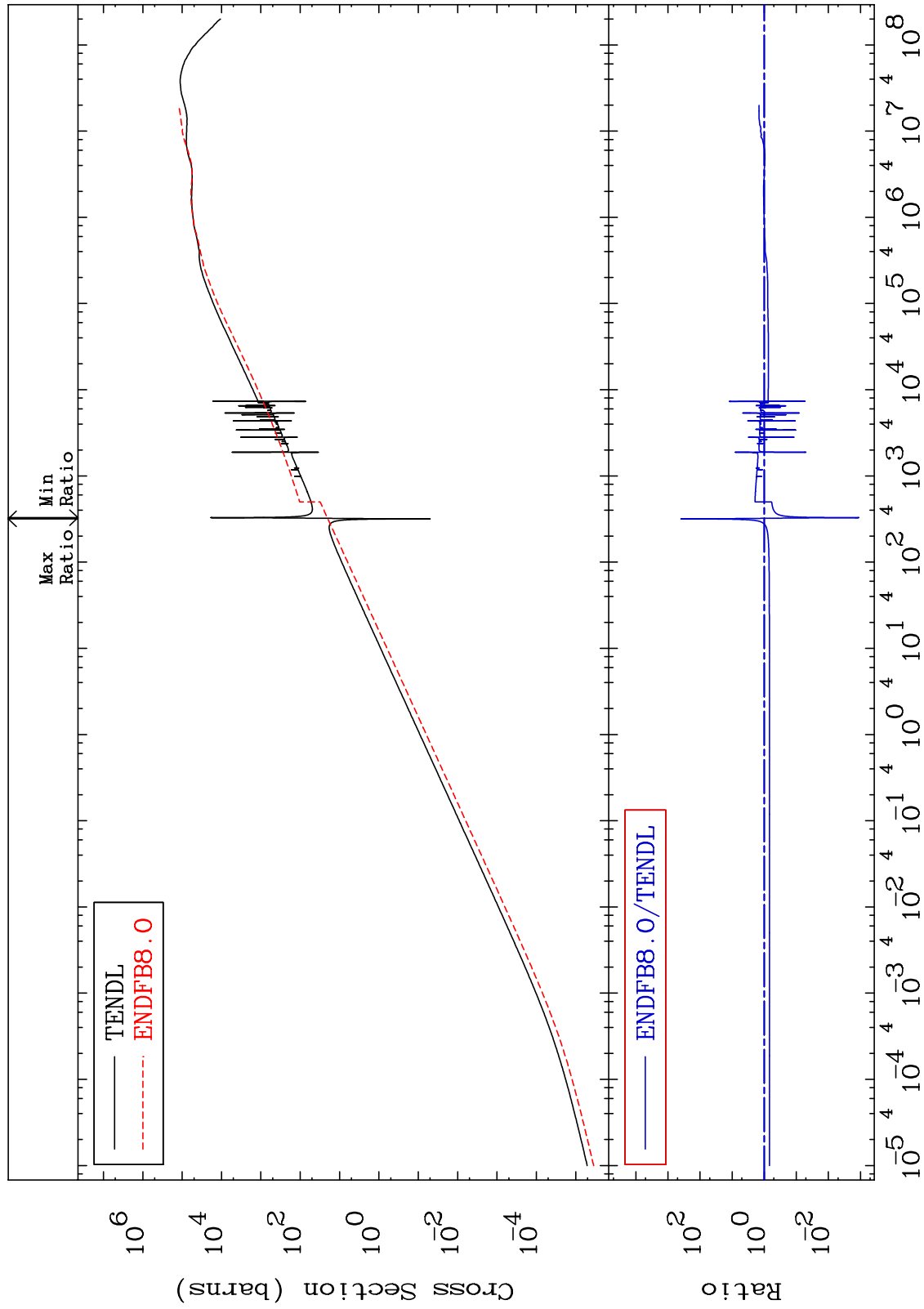
MAT 4455      Kerma total (eV-barns)      44-Ru-106  
 Cross Section      -79.60 To 9999. %



MAT 4455

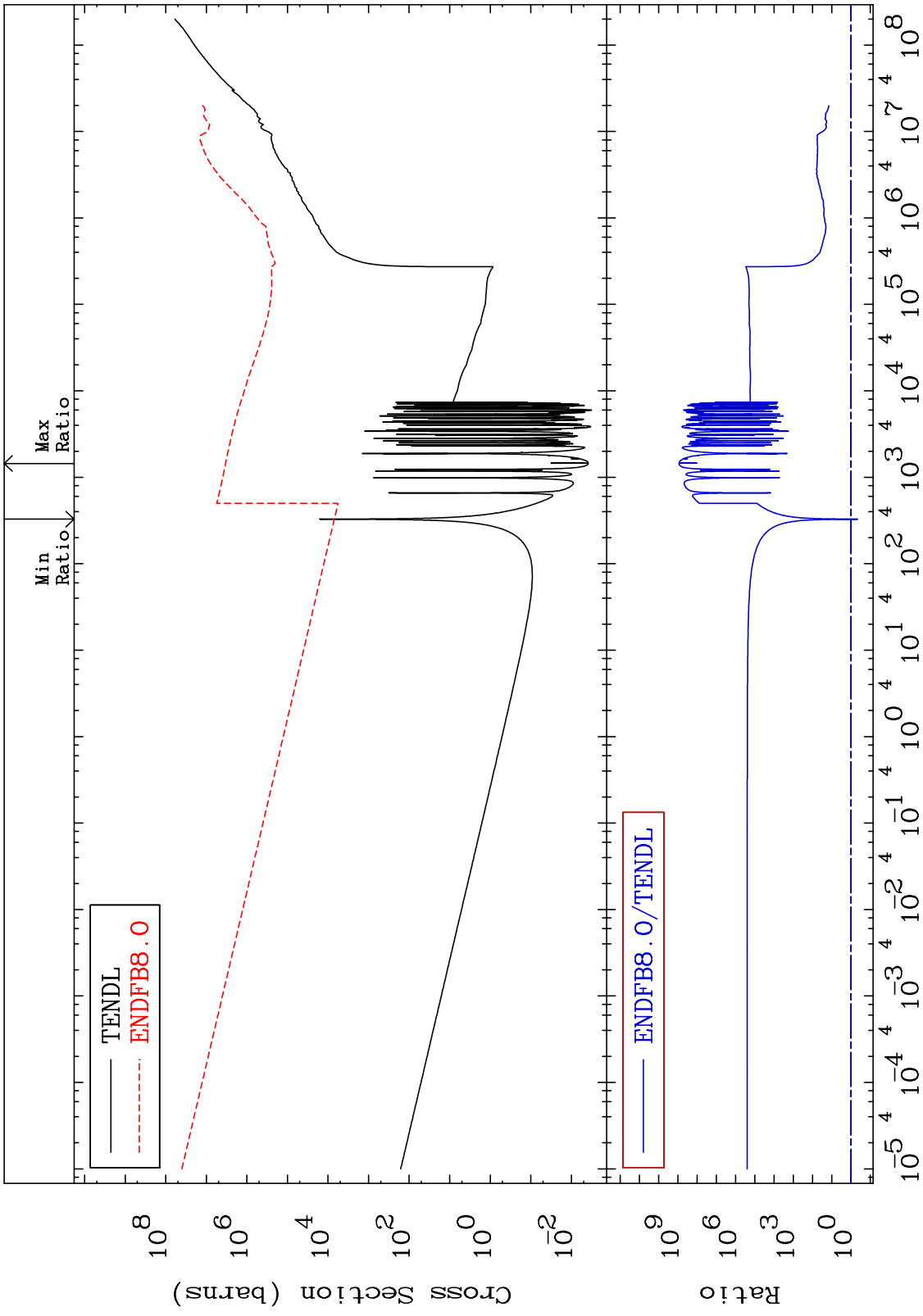
Kerma elastic  
Cross Section

44-Ru-106  
-99.89 To 9999. %

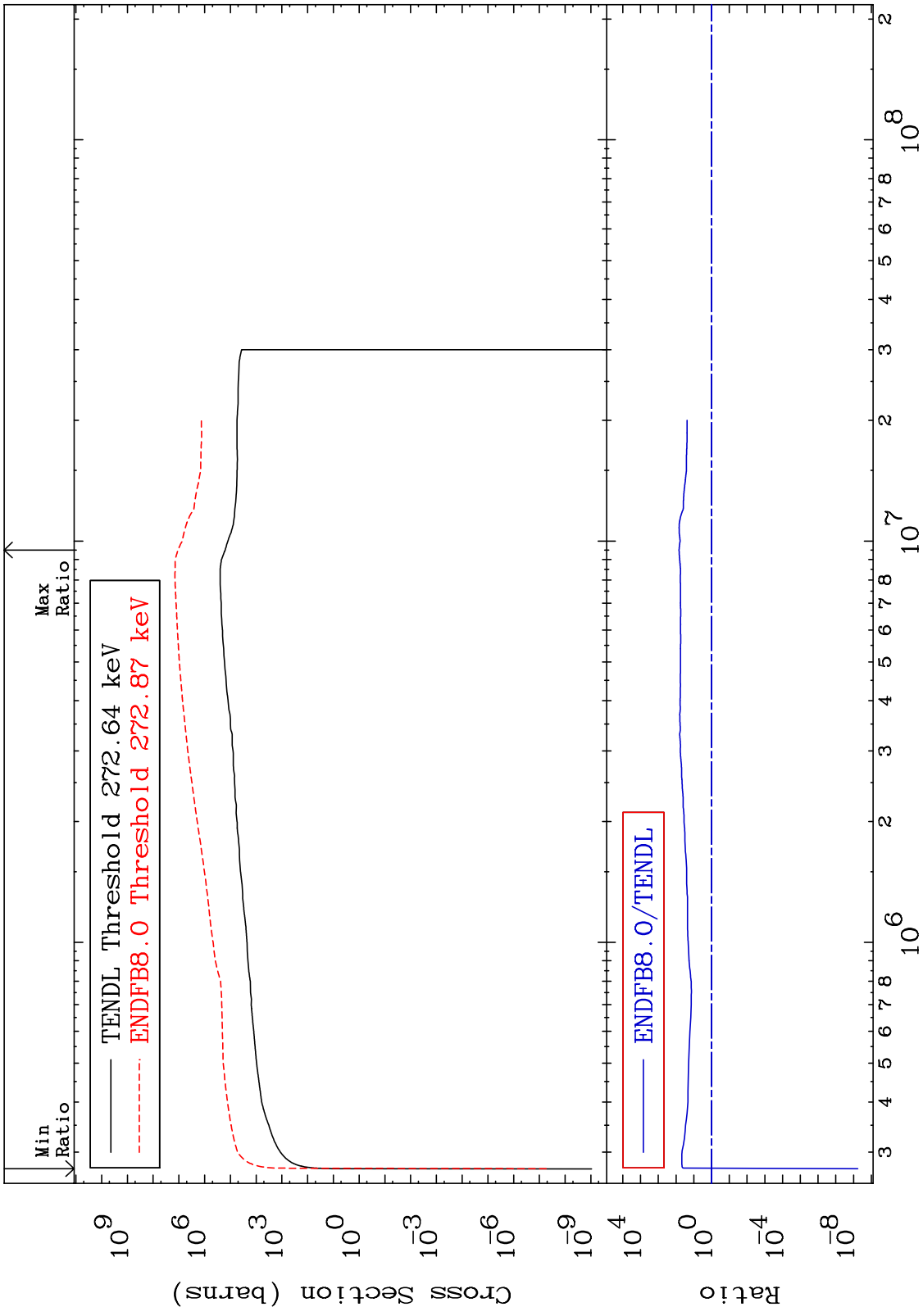




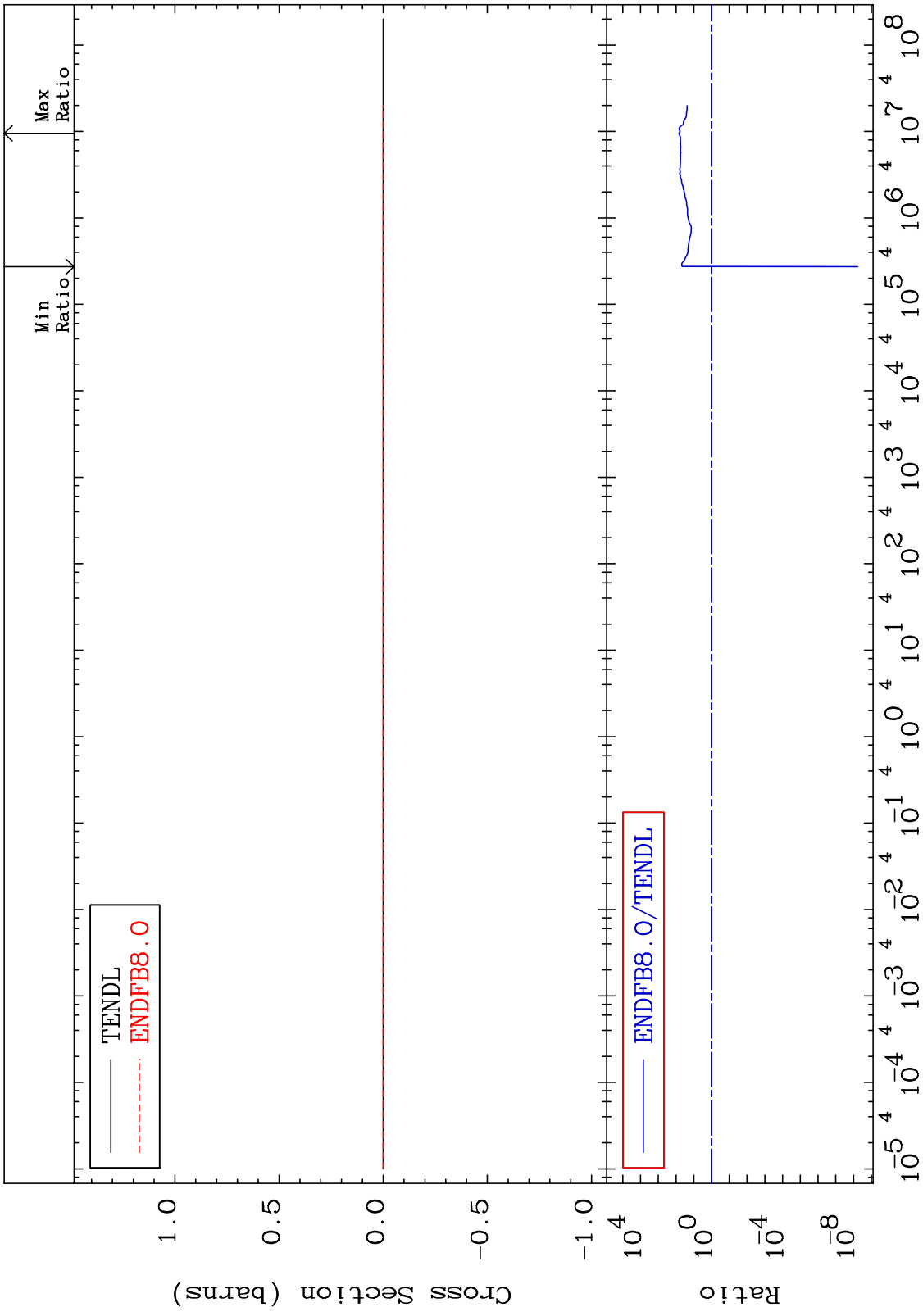
MAT 4455      Kerma non-elastic (all but mt2)      44-Ru-106  
 -55.90 To 9999. %  
 Cross Section



MAT 4455      Kerma inelastic (mt51-91)      44-Ru-106  
 -100.0 To 6668. %



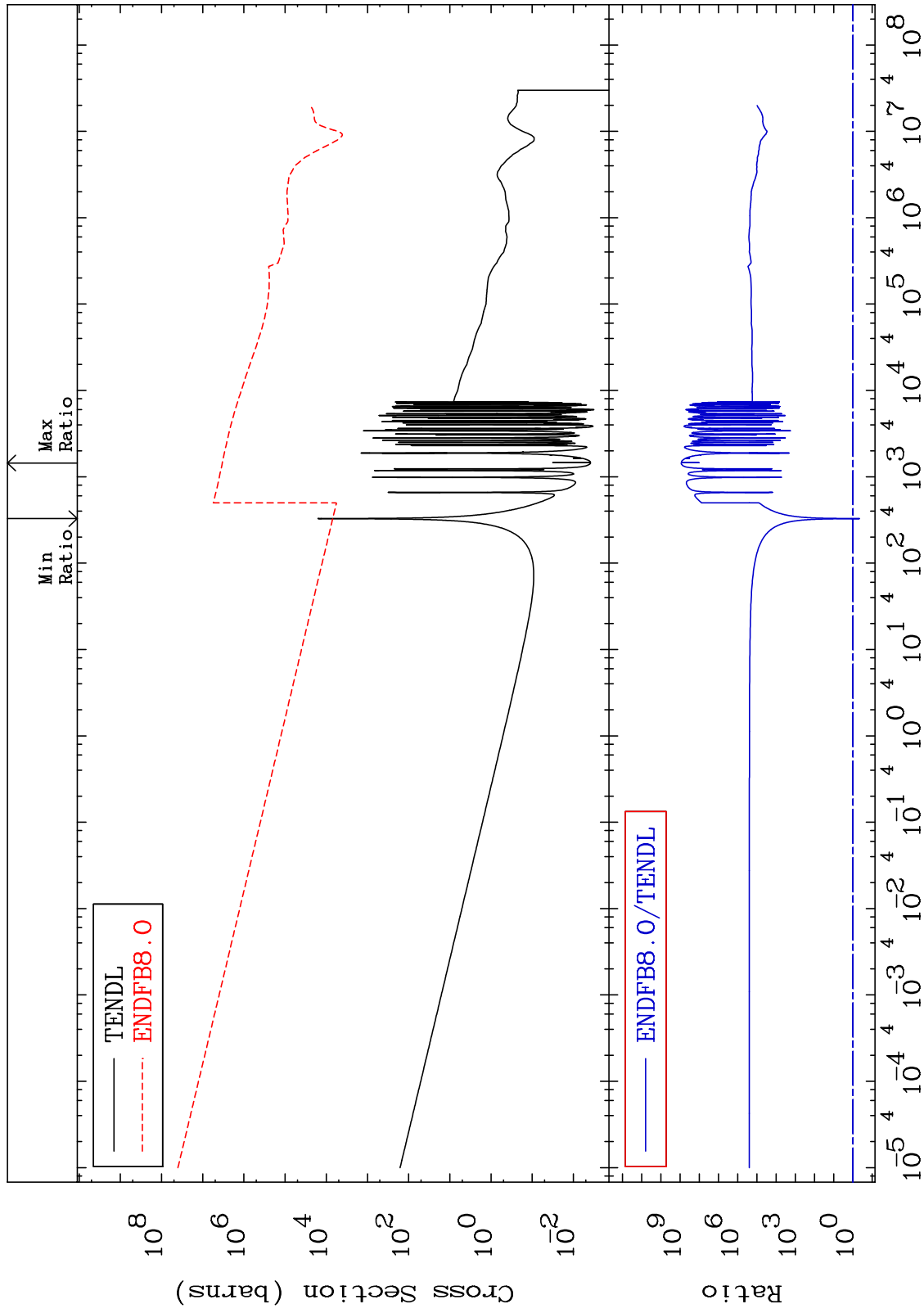
MAT 4455 Kerma fission (mt18 or mt19-20-21-38) 44-Ru-106  
 Cross Section -100.0 To 6668. %



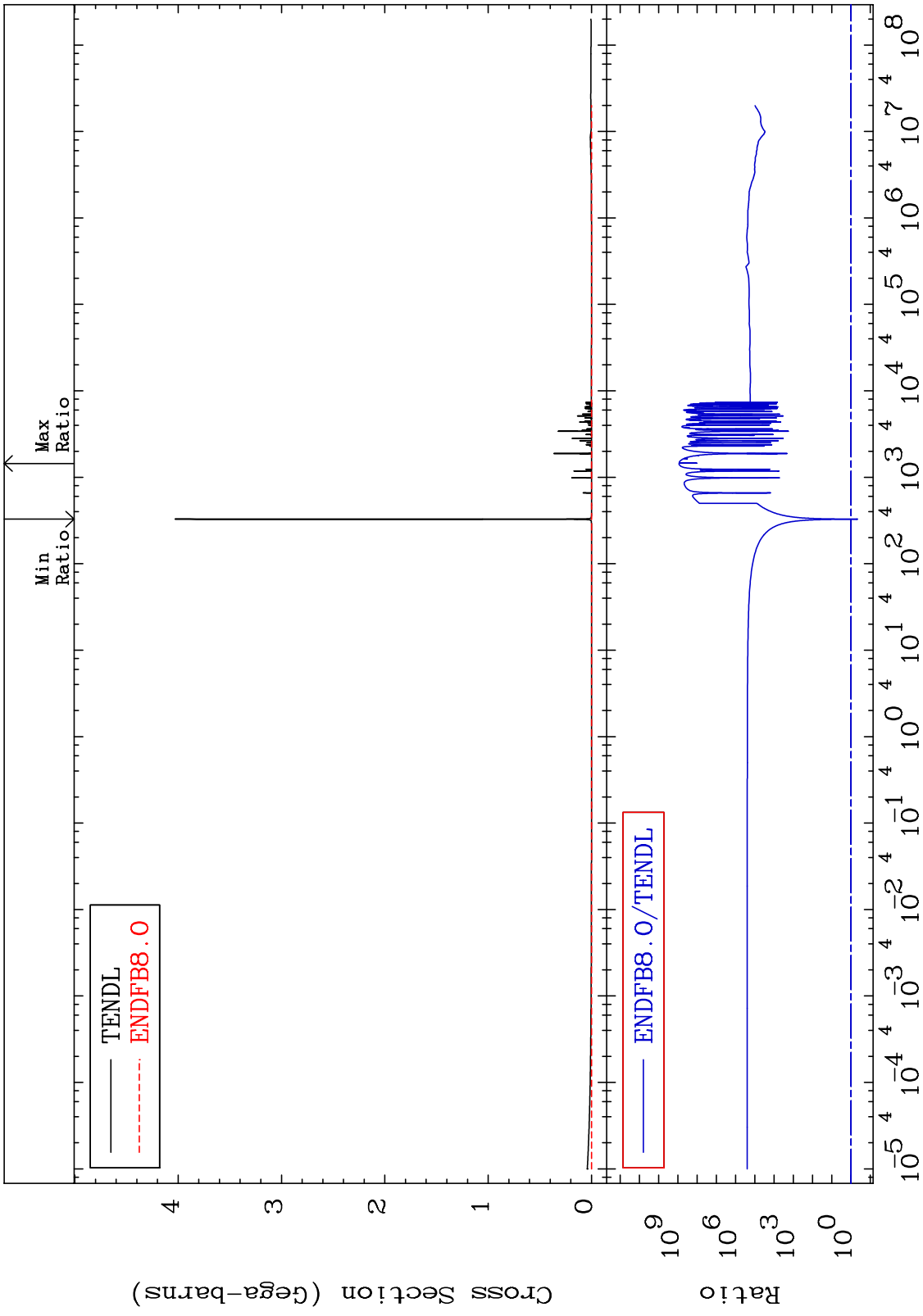
MAT 4455

Kerma capture (mt102)  
Cross Section

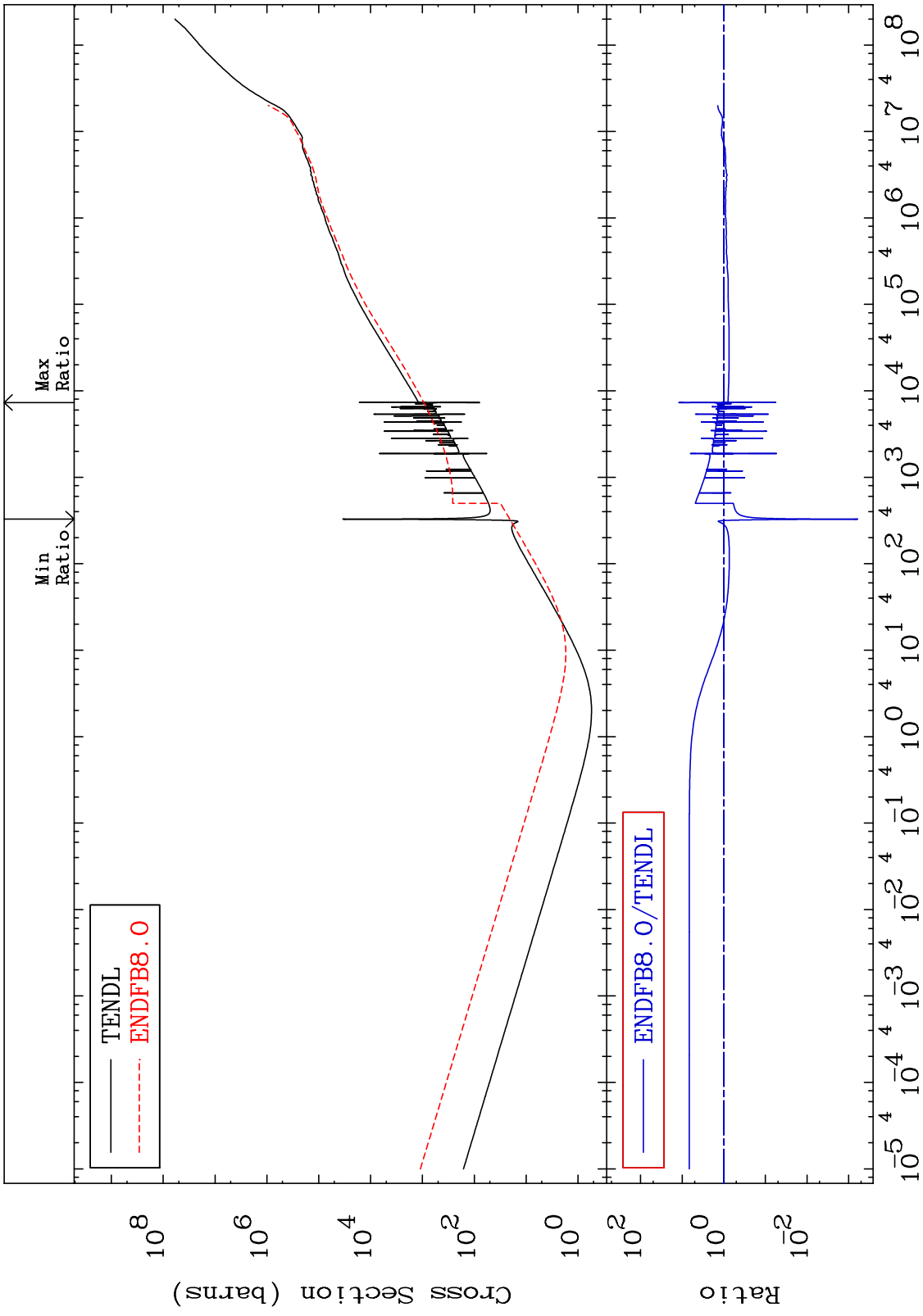
44-Ru-106  
-55.90 To 9999. %



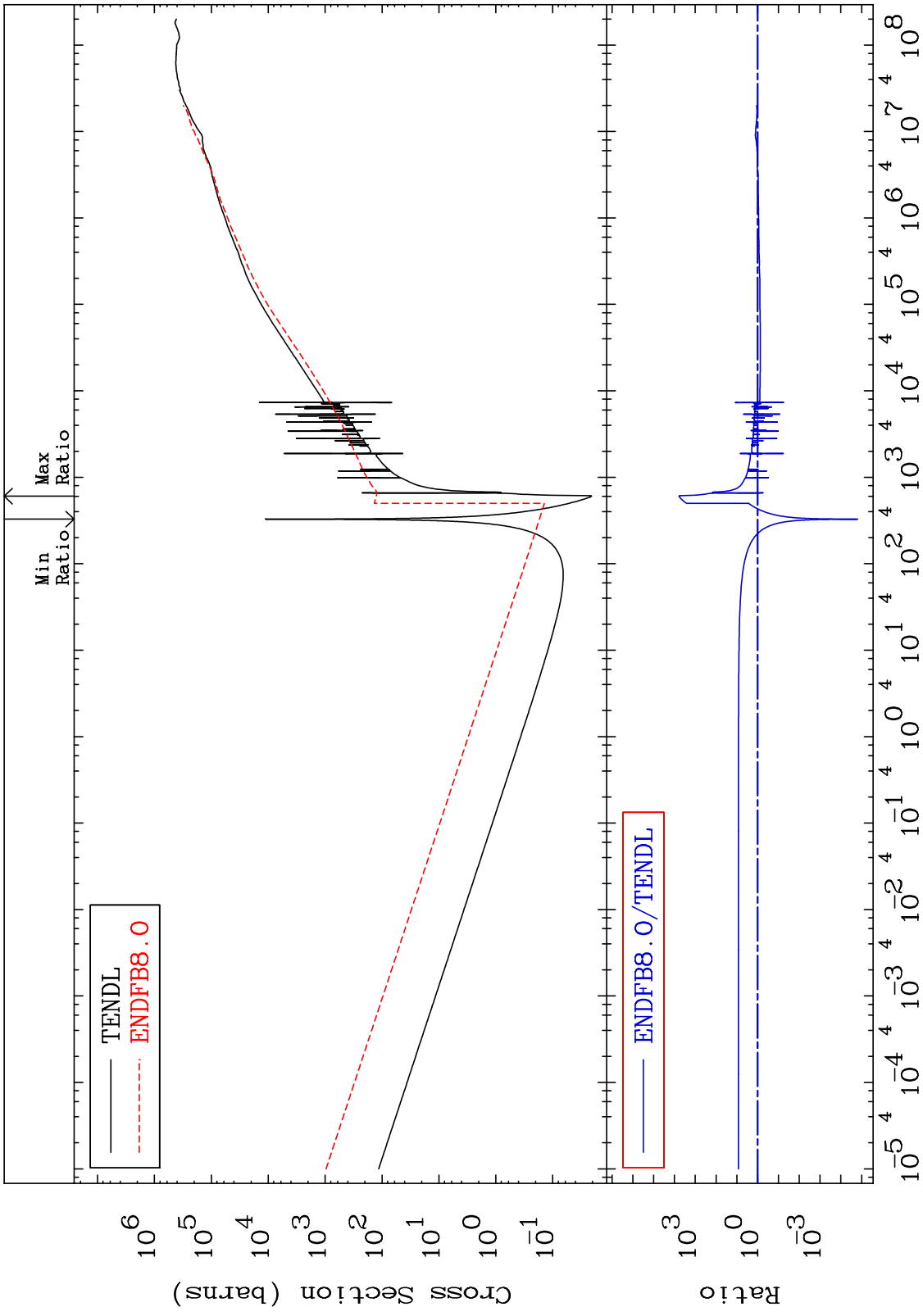
MAT 4455 Total photon (eV-barns) 44-Ru-106  
Cross Section -55.90 To 9999. %



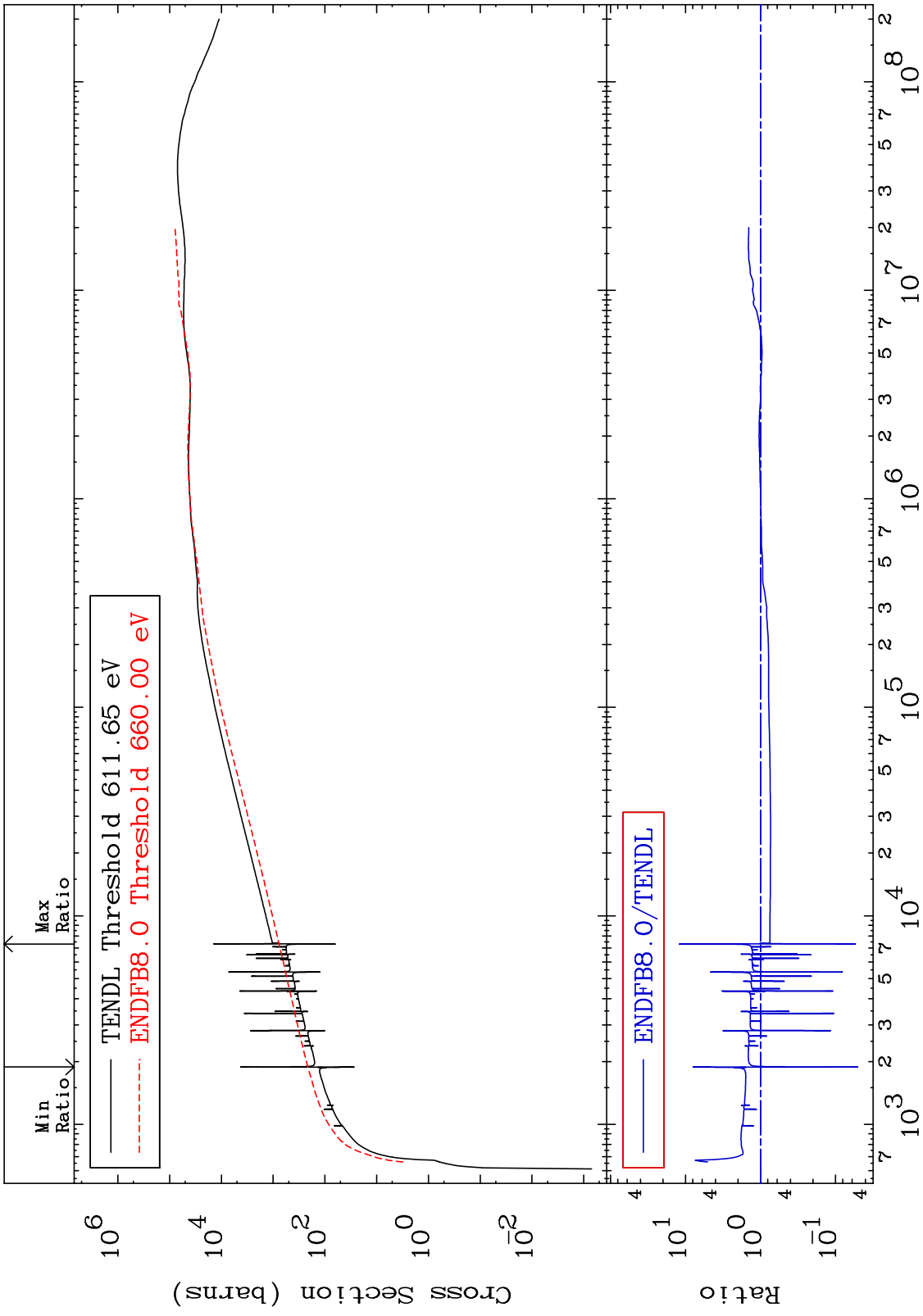
MAT 4455 Total kinematic kerma (high limit) 44-Ru-106  
 Cross Section -99.94 To 1092. %



MAT 4455      Dpa total (eV-barns)      44-Ru-106  
 -100.0 To 9999. %

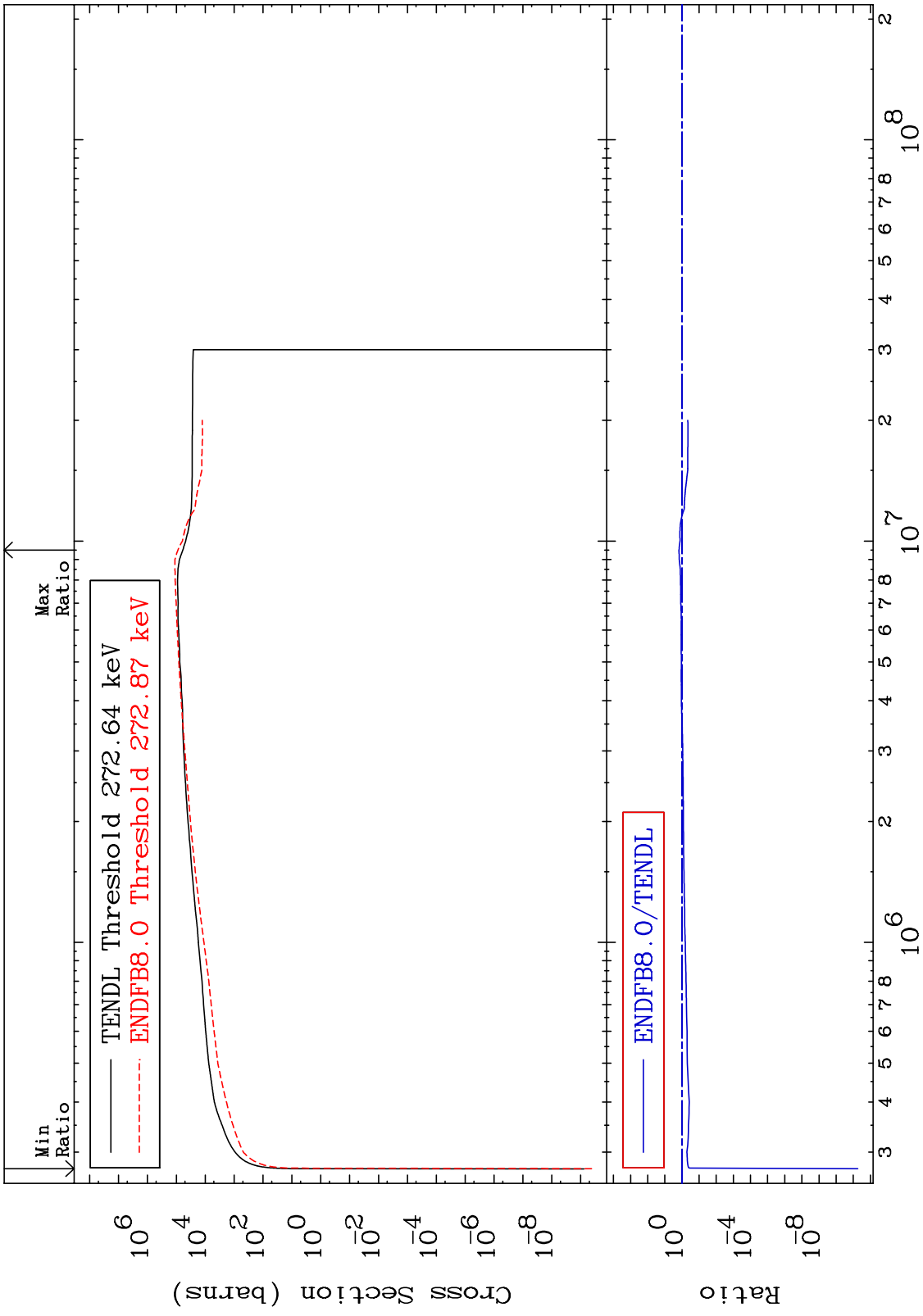


MAT 4455      Dpa elastic (mt2)      44-Ru-106  
 Cross Section      -94.96 To 1121. %





MAT 4455      Dpa inelastic (mt51-91)      44-Ru-106  
 Cross Section      -100.0 To 48.04 %



MAT 4455

Dpa disappearance (mt102 -120)  
Cross Section

44-Ru-106  
-100.0 To 9999. %

