

Program Complot
(Version 2021-1)

by

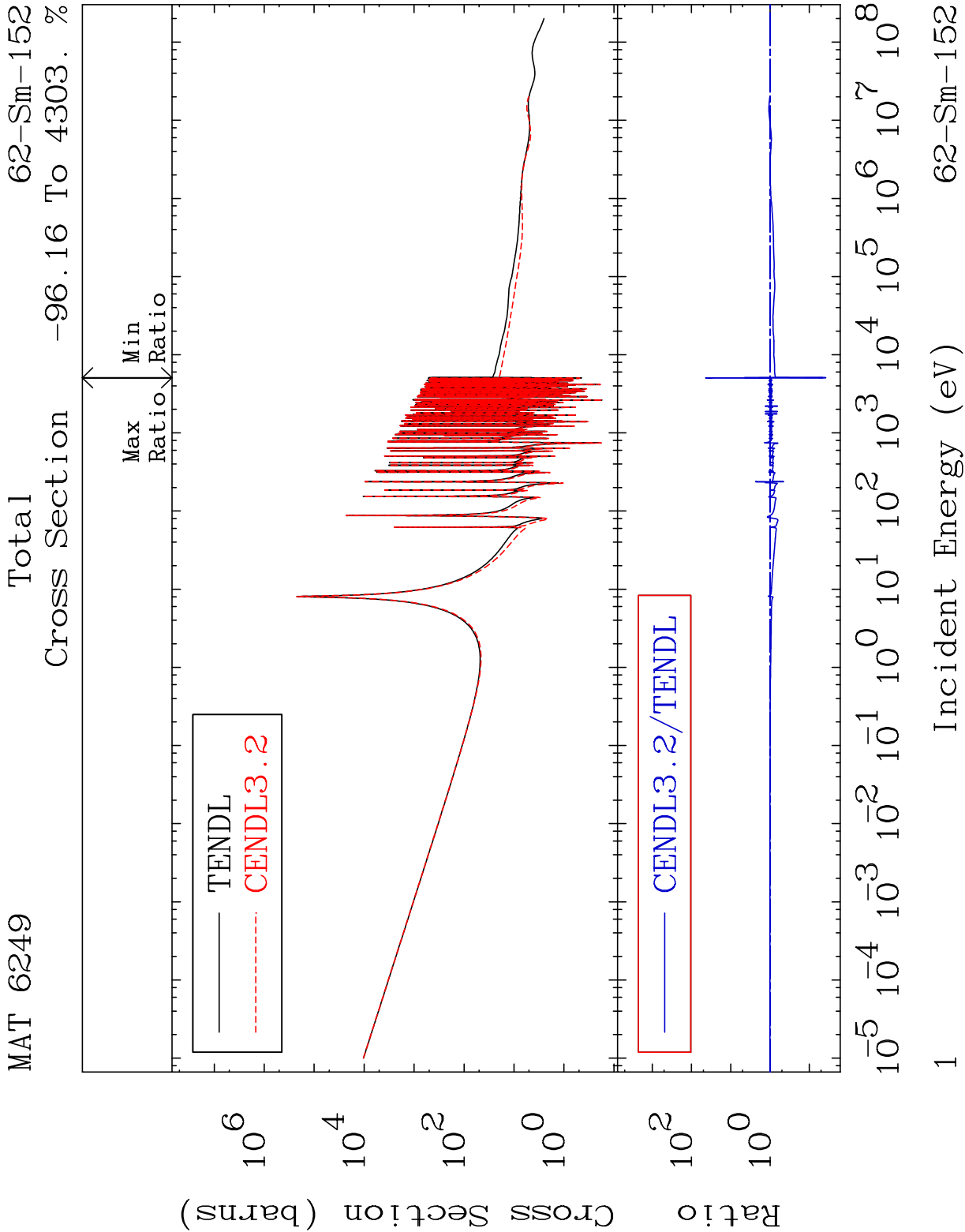
Dermott E. Cullen
(Present Contact Information)

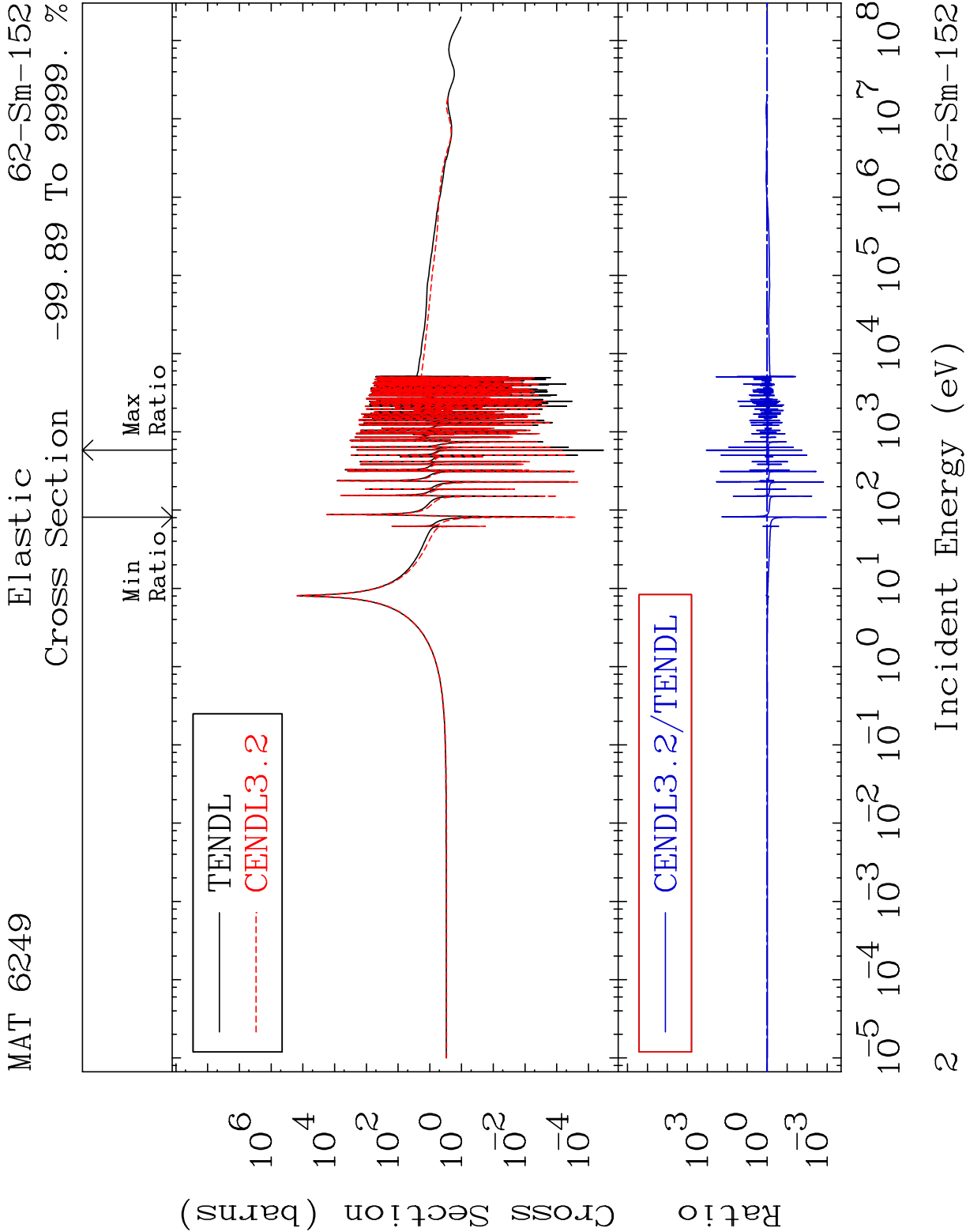
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
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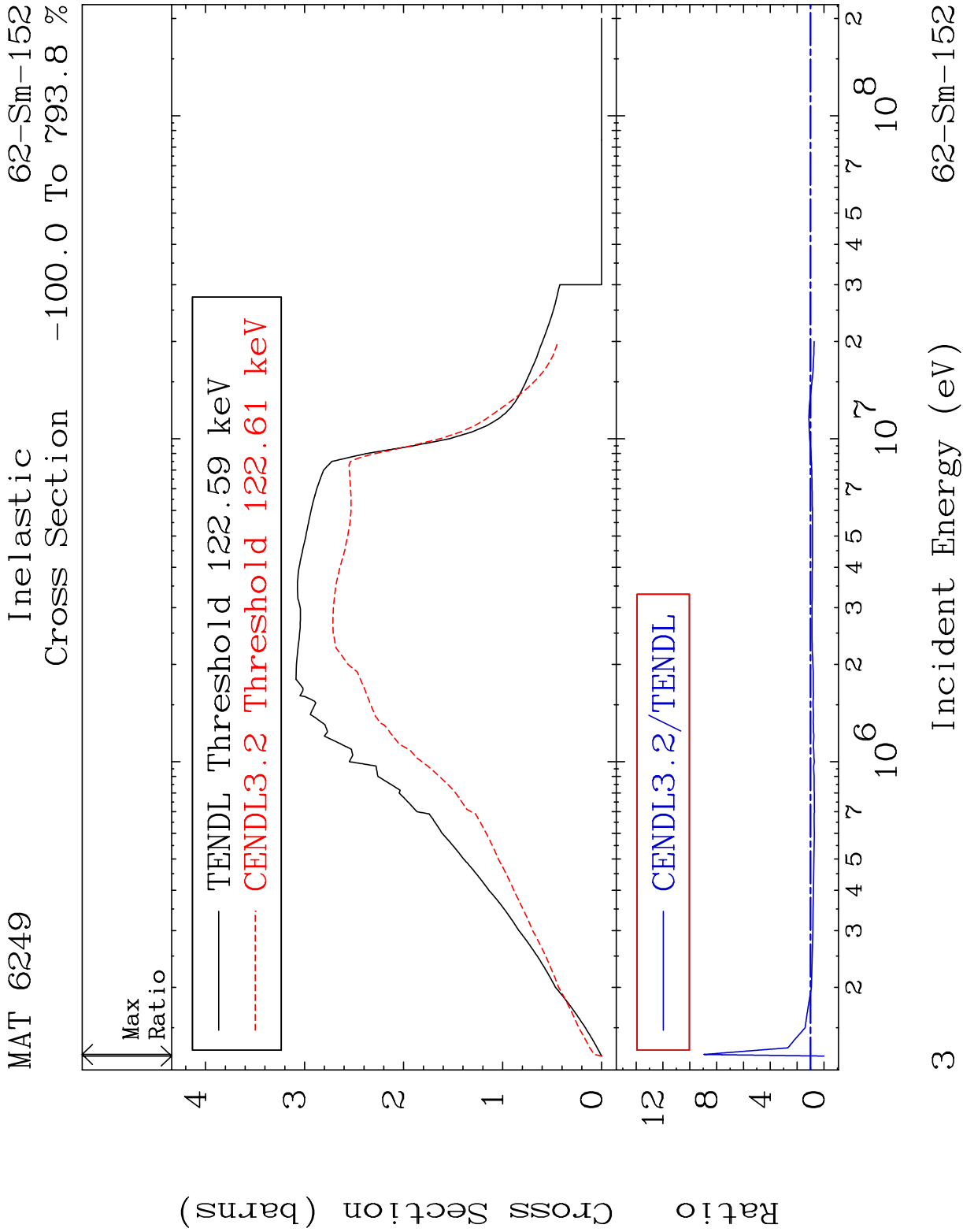
Tele: 925-443-1911

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Press Mouse Button to Start





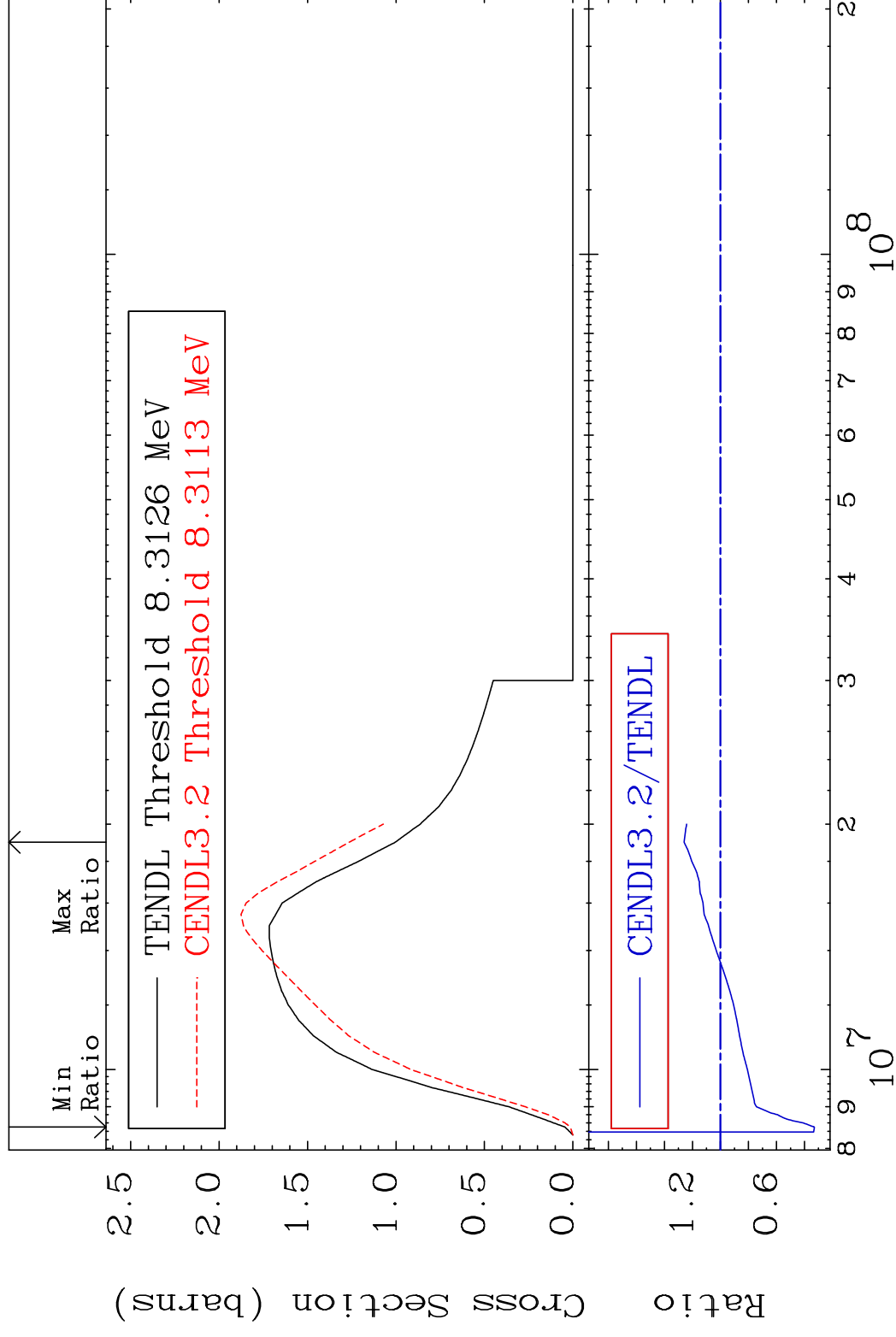


MAT 6249

$$(n, 2n)$$

62-Sm-152

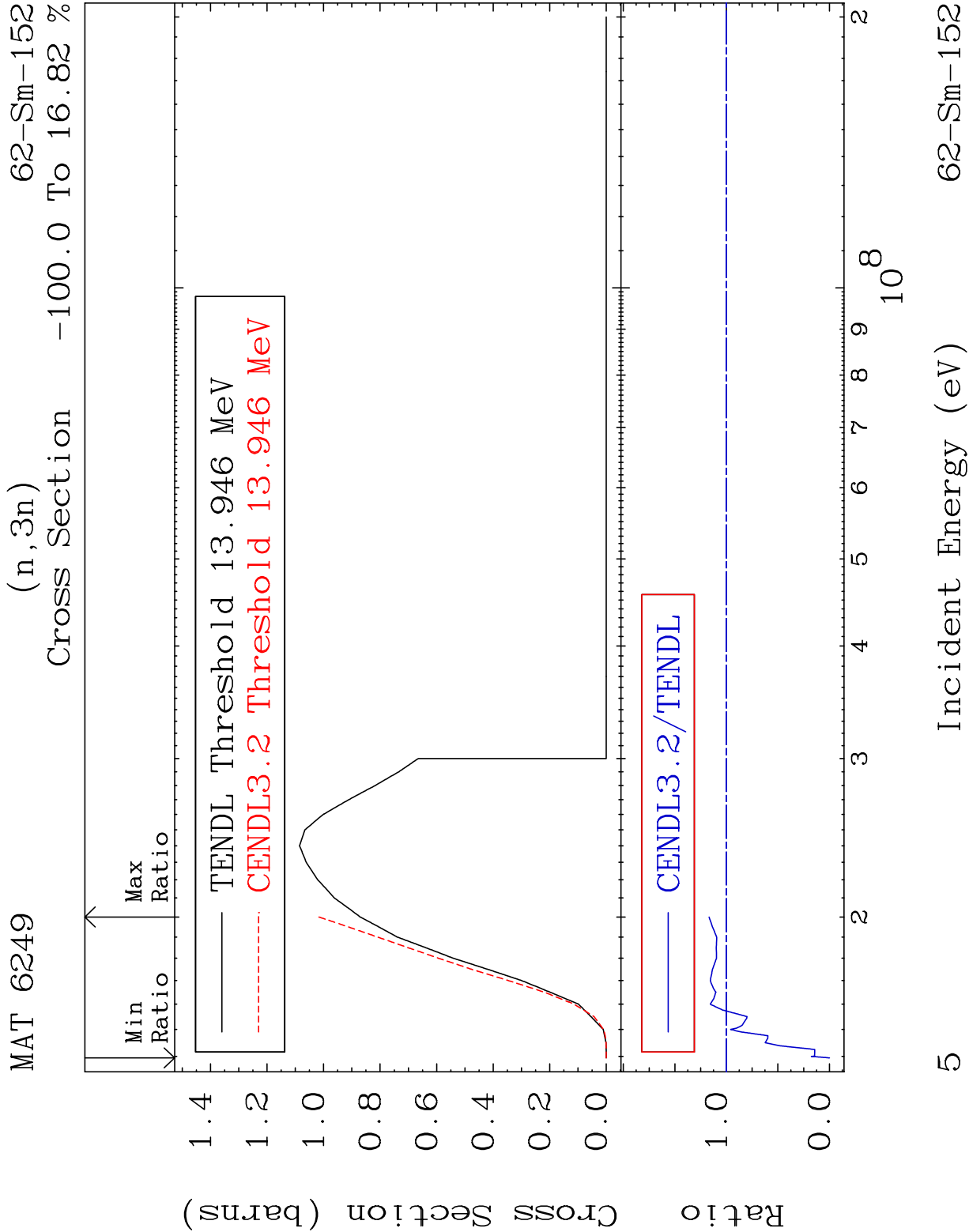
Cross Section	-66.96 To 25.97 %
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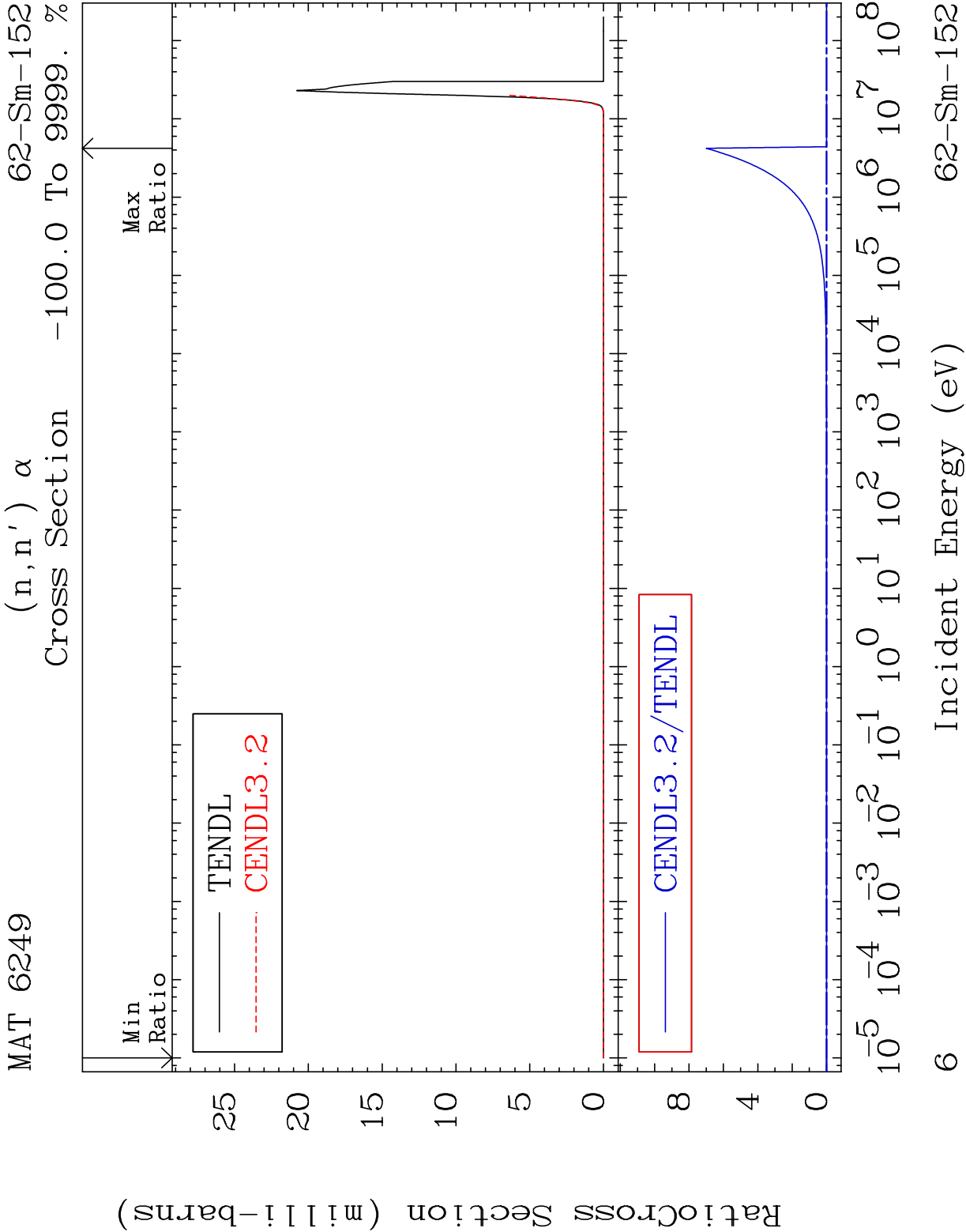


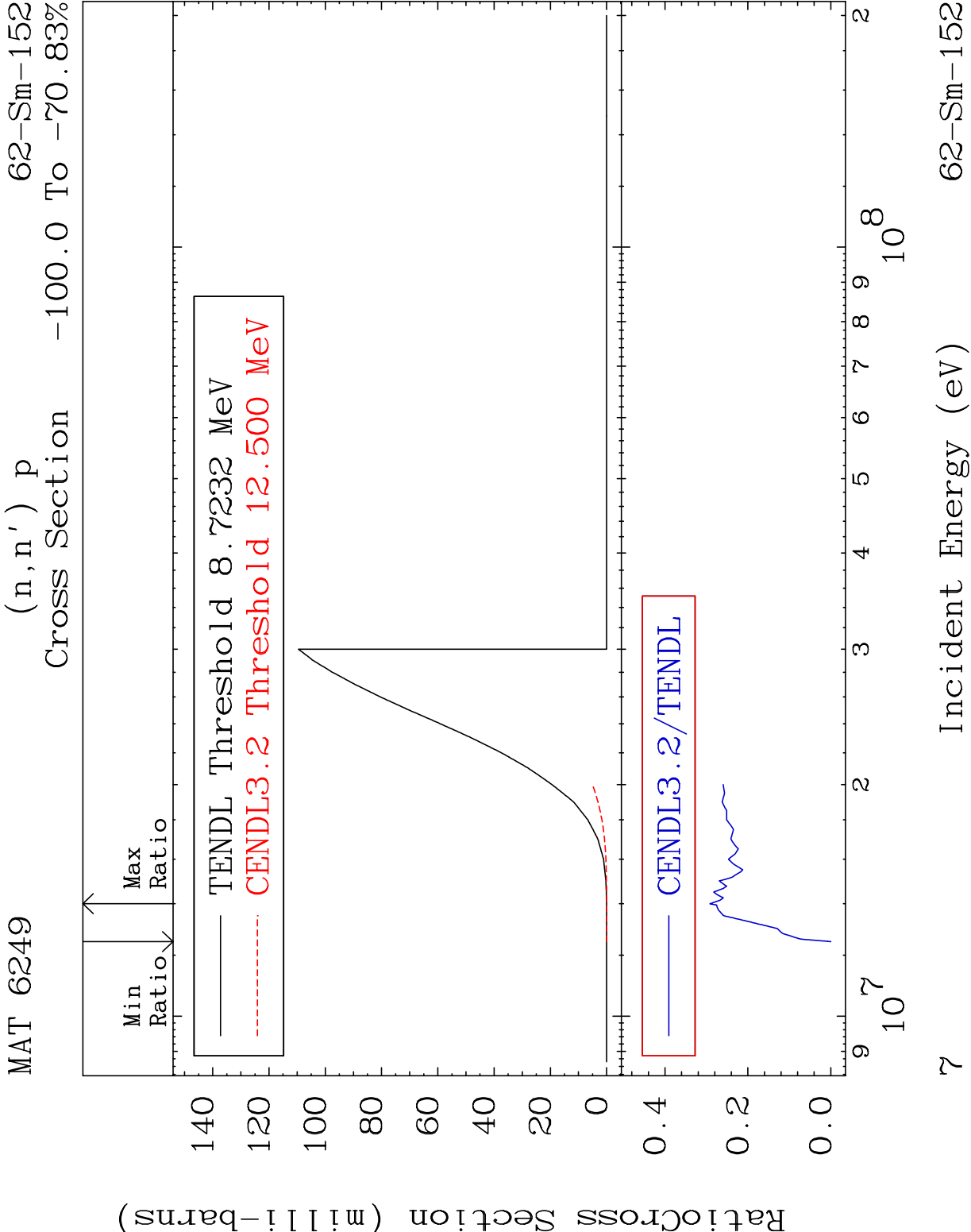
4

Incident Energy (eV)

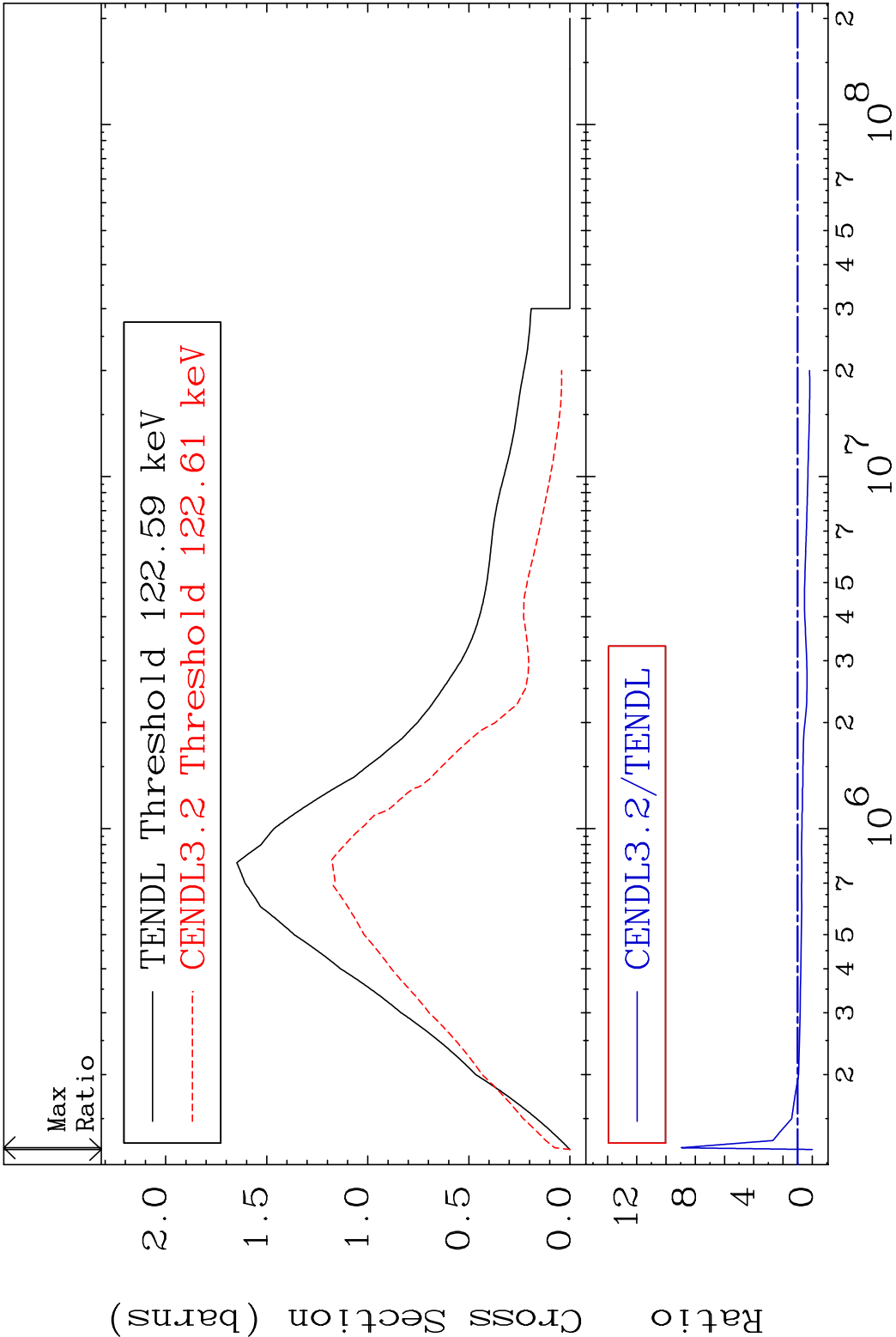
62-Sm-152







MAT 6249 MT= 51 (n,n') Level 62-Sm-152
 Cross Section -100.0 To 793.8 %



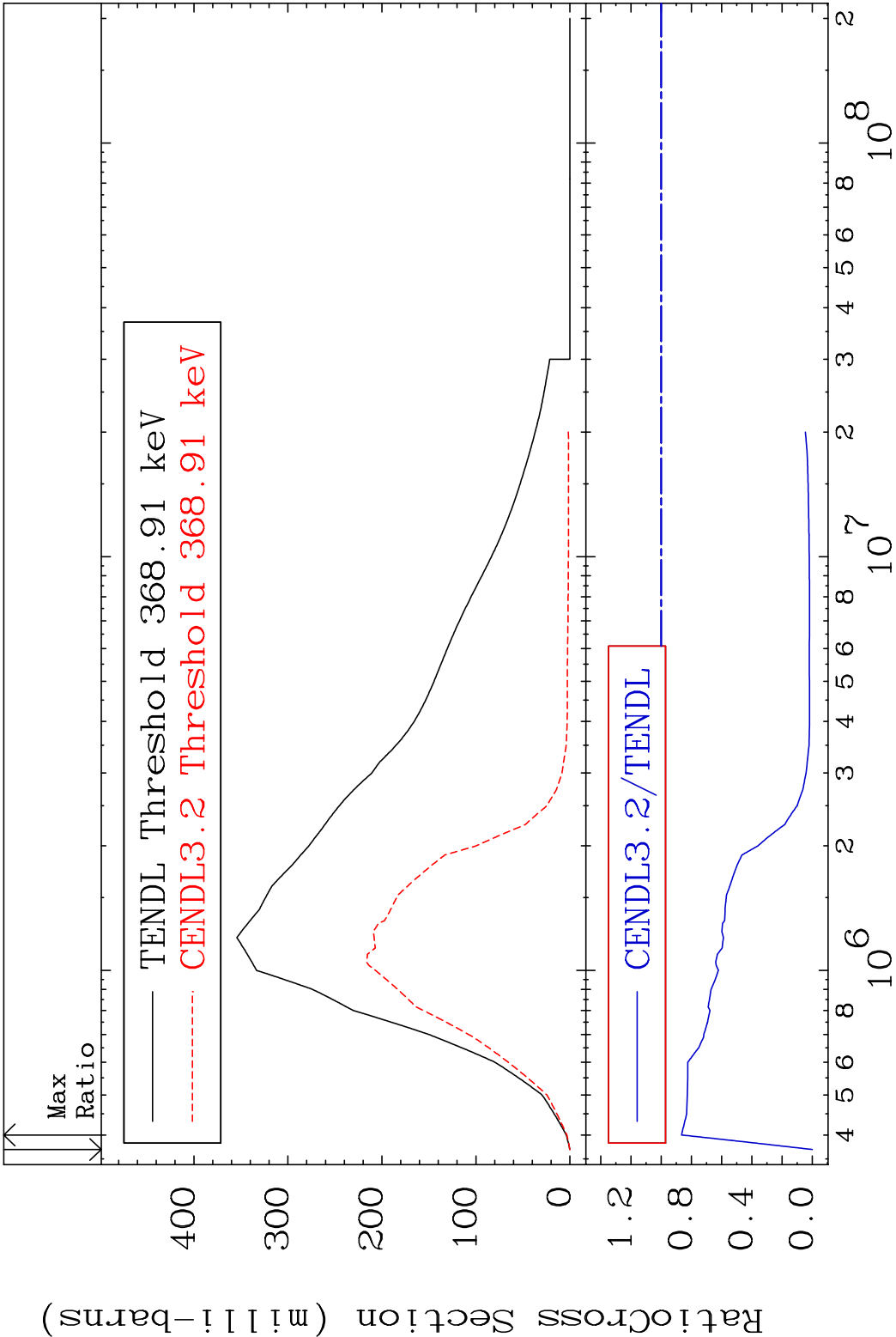
MAT 6249

MT= 52 (n,n') Level

62-Sm-152

Cross Section

-100.0 To -13.51%

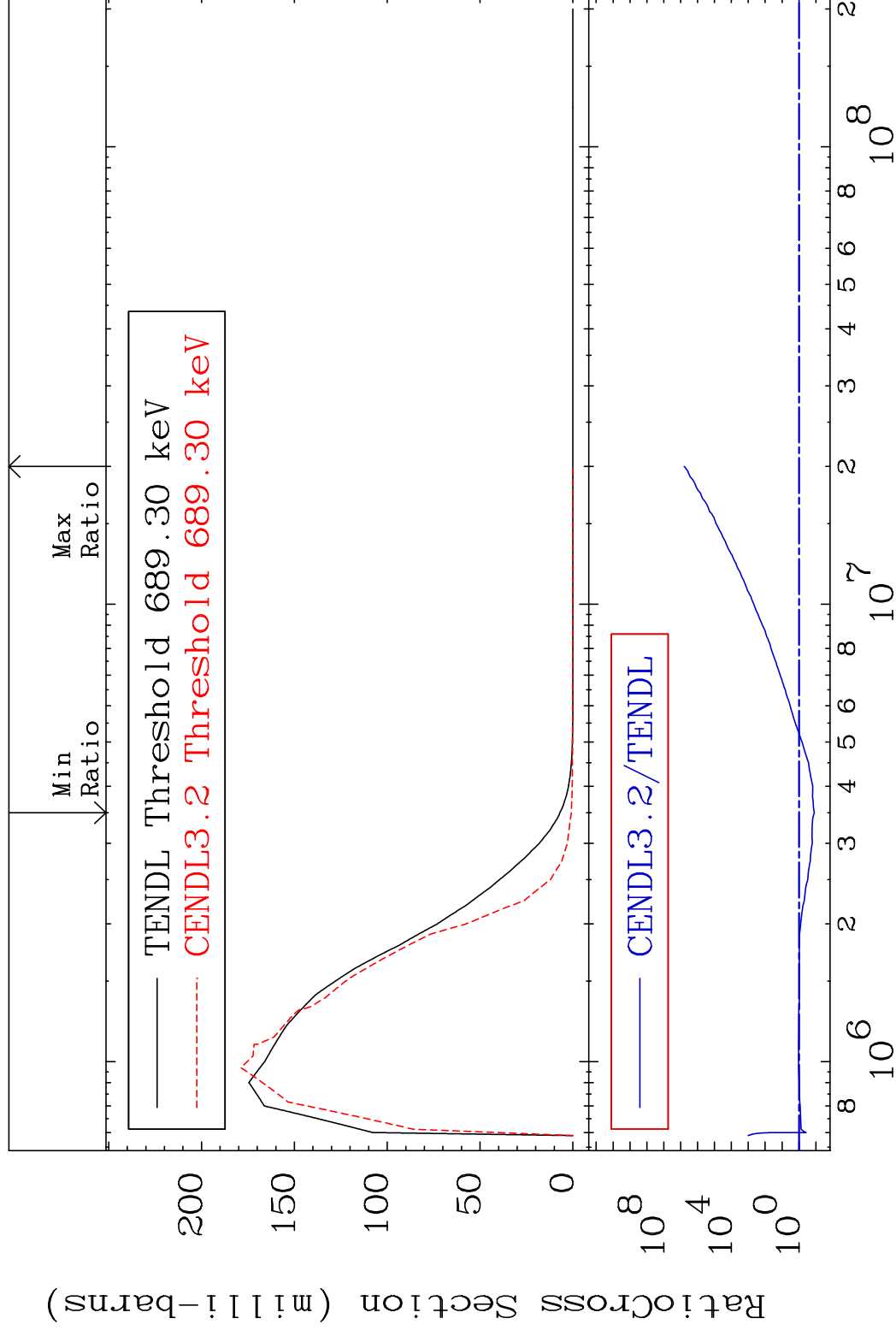


MAT 6249

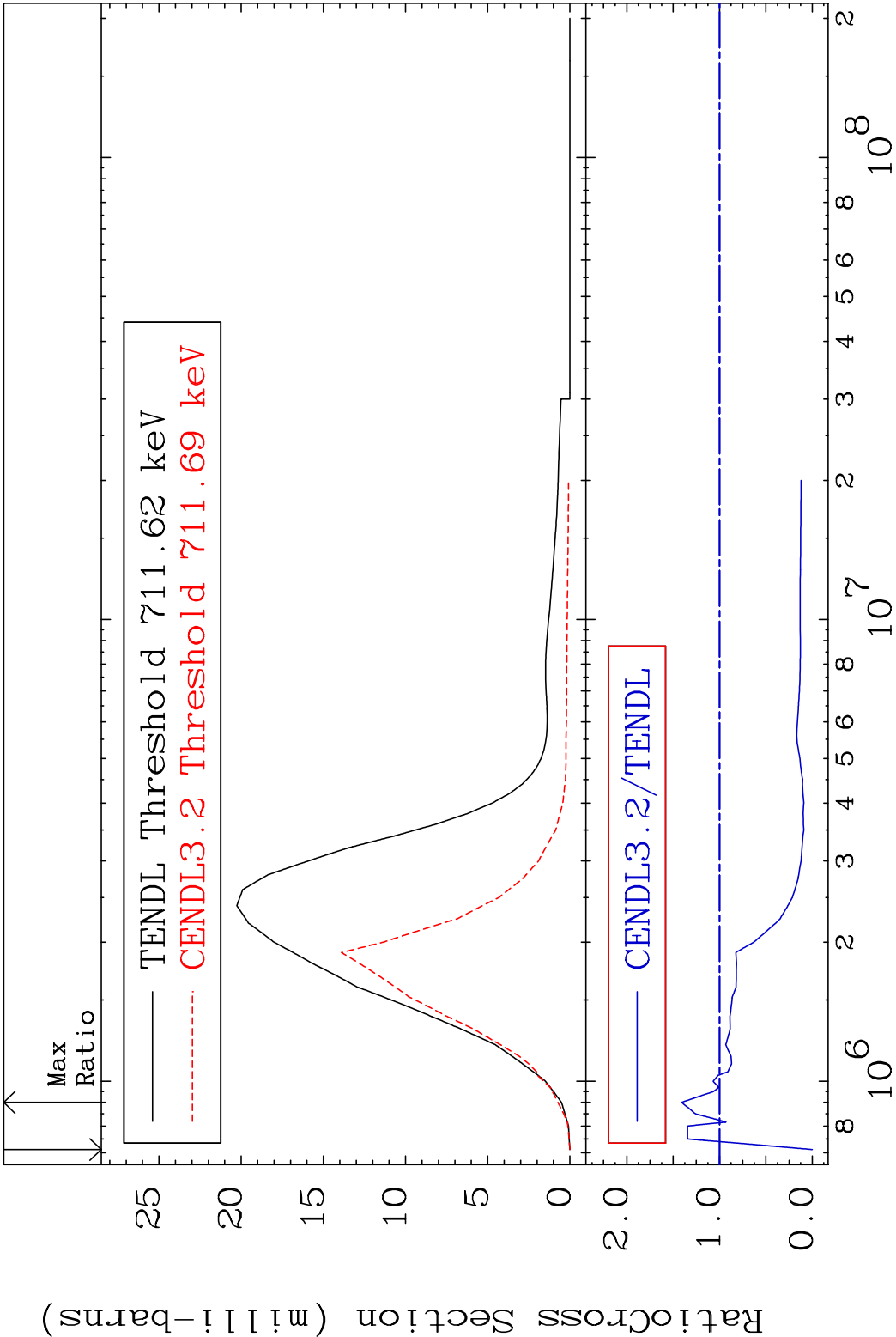
MT= 53 (n, n') Level

62-Sm-152

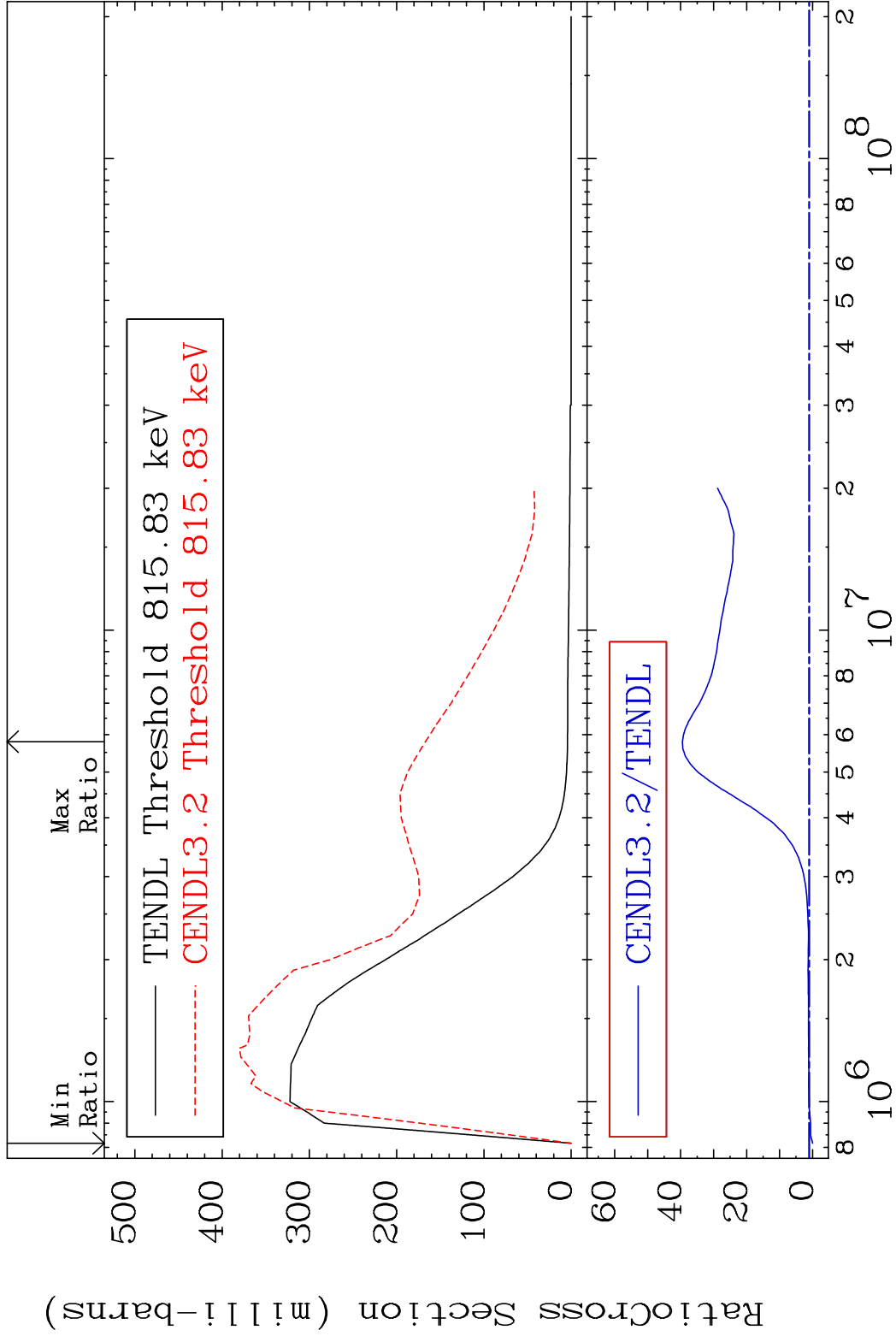
Cross Section -87.56 To 9999. %



MAT 6249 MT= 54 (n,n') Level 62-Sm-152
 Cross Section -100.0 To 40.96 %

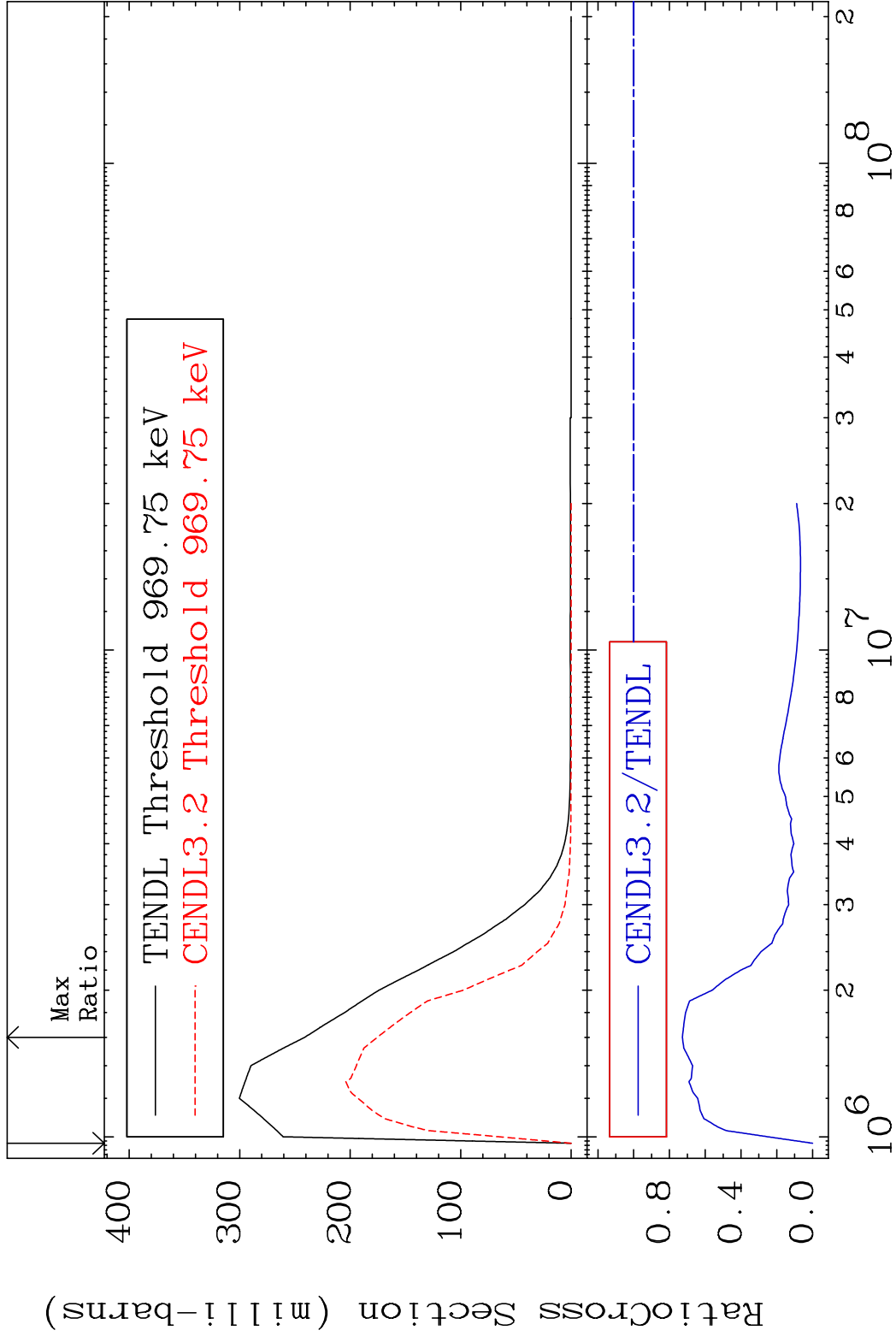


MAT 6249 MT= 55 (n,n') Level 62-Sm-152
Cross Section -100.0 To 3848. %

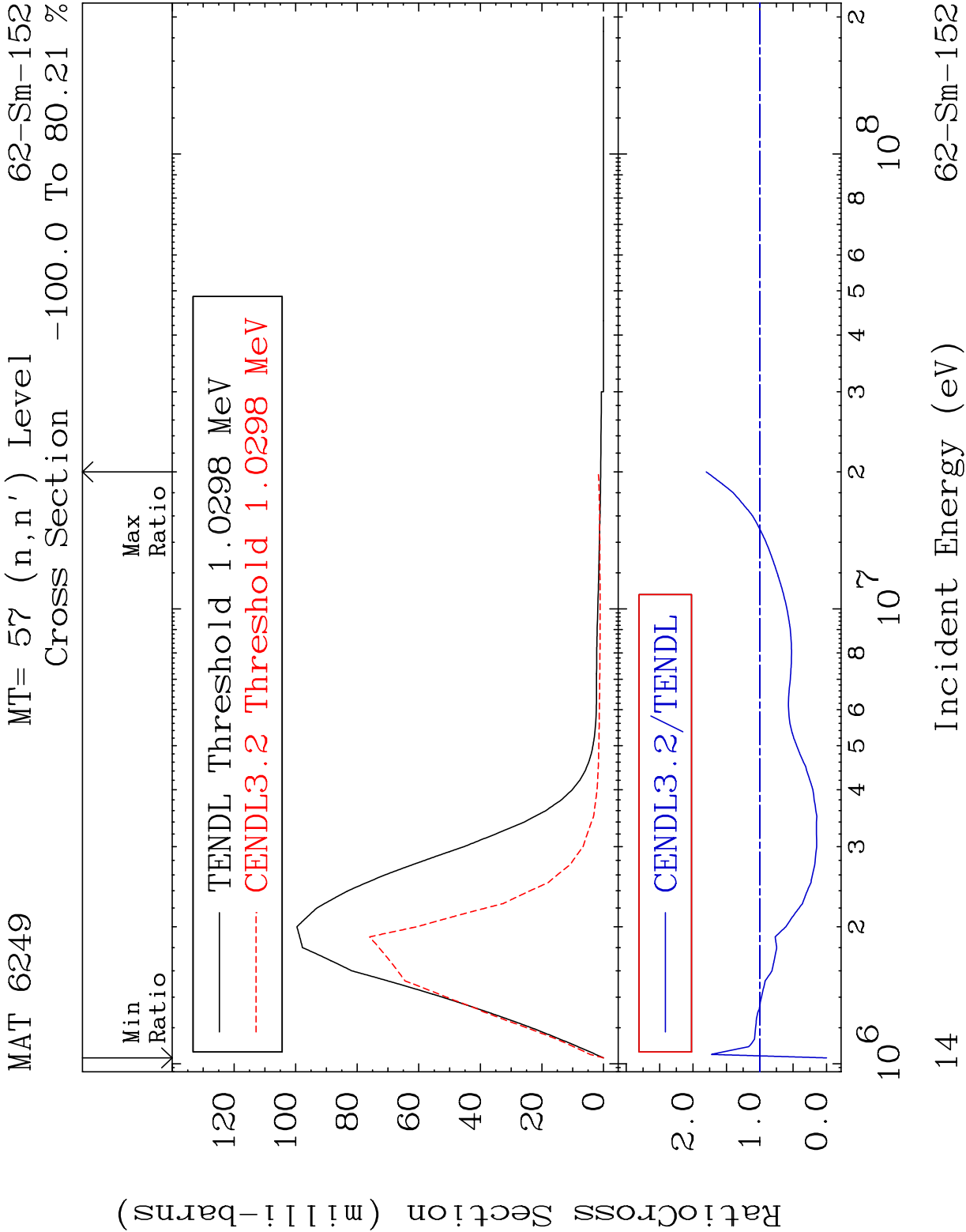


12 Incident Energy (eV) 62-Sm-152

MAT 6249 MT= 56 (n,n') Level 62-Sm-152
Cross Section -100.0 To -27.20%



13 Incident Energy (eV) 62-Sm-152



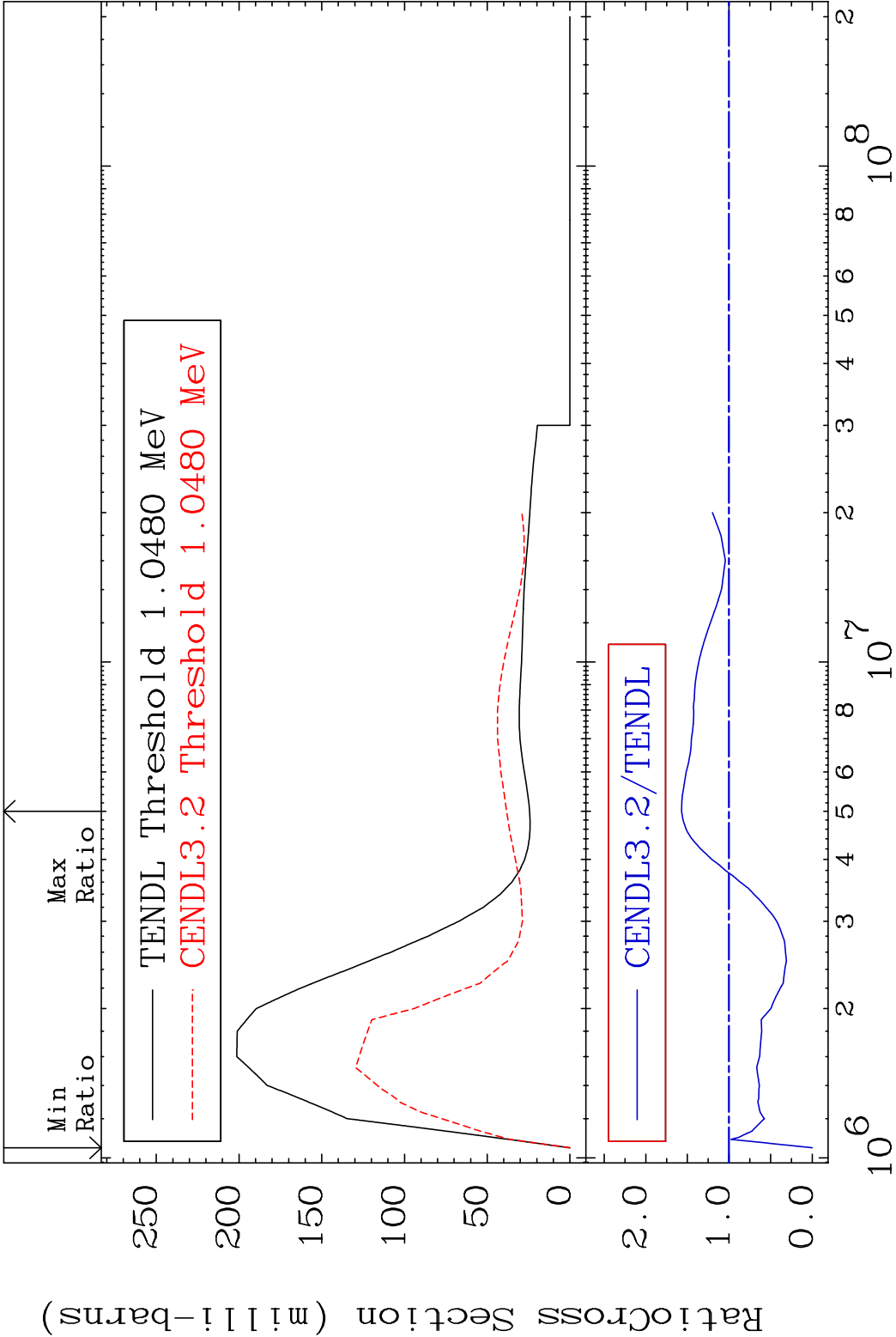
MAT 6249

MT= 58 (n,n') Level

62-Sm-152

Cross Section

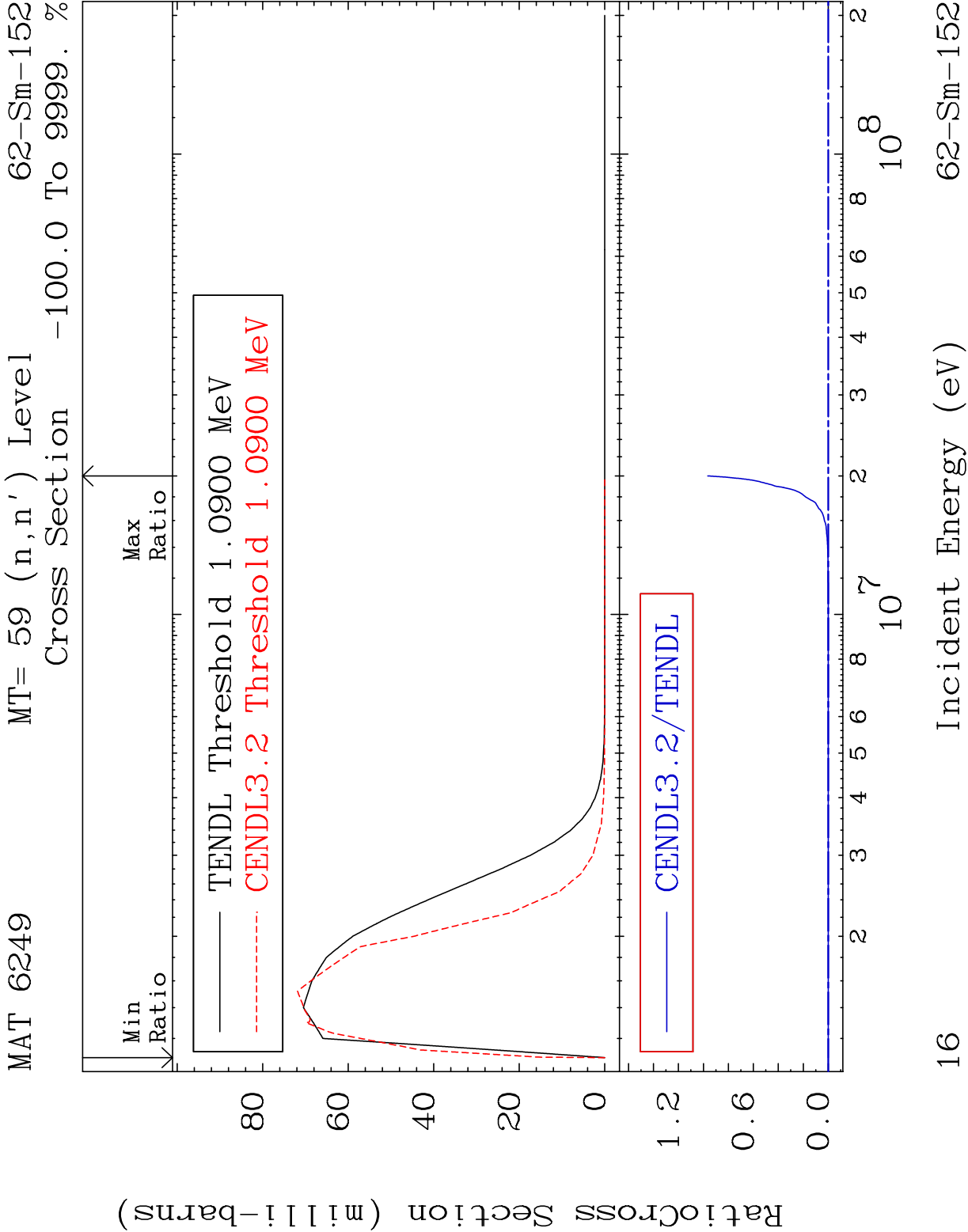
-100.0 To 57.05 %

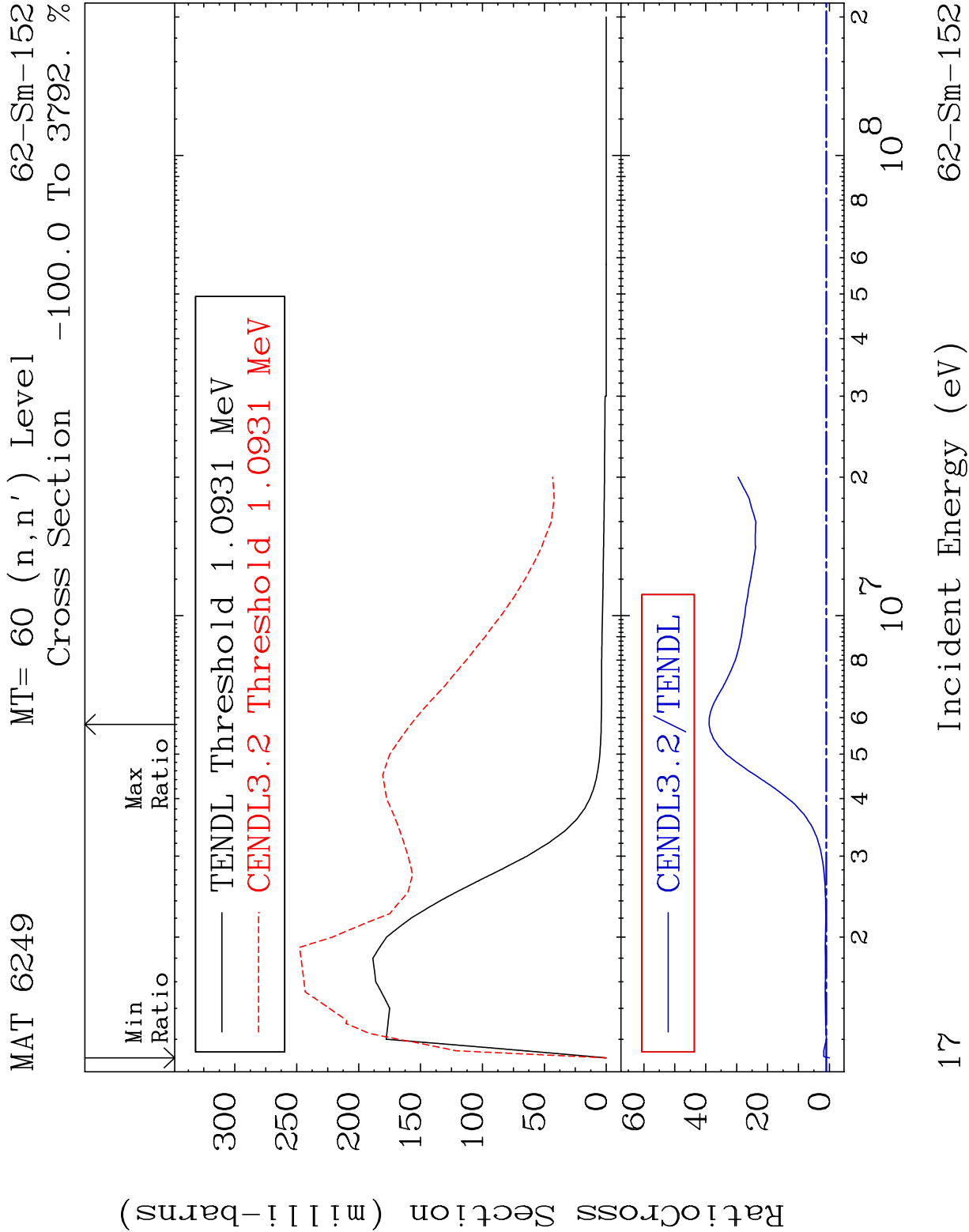


15

Incident Energy (eV)

62-Sm-152





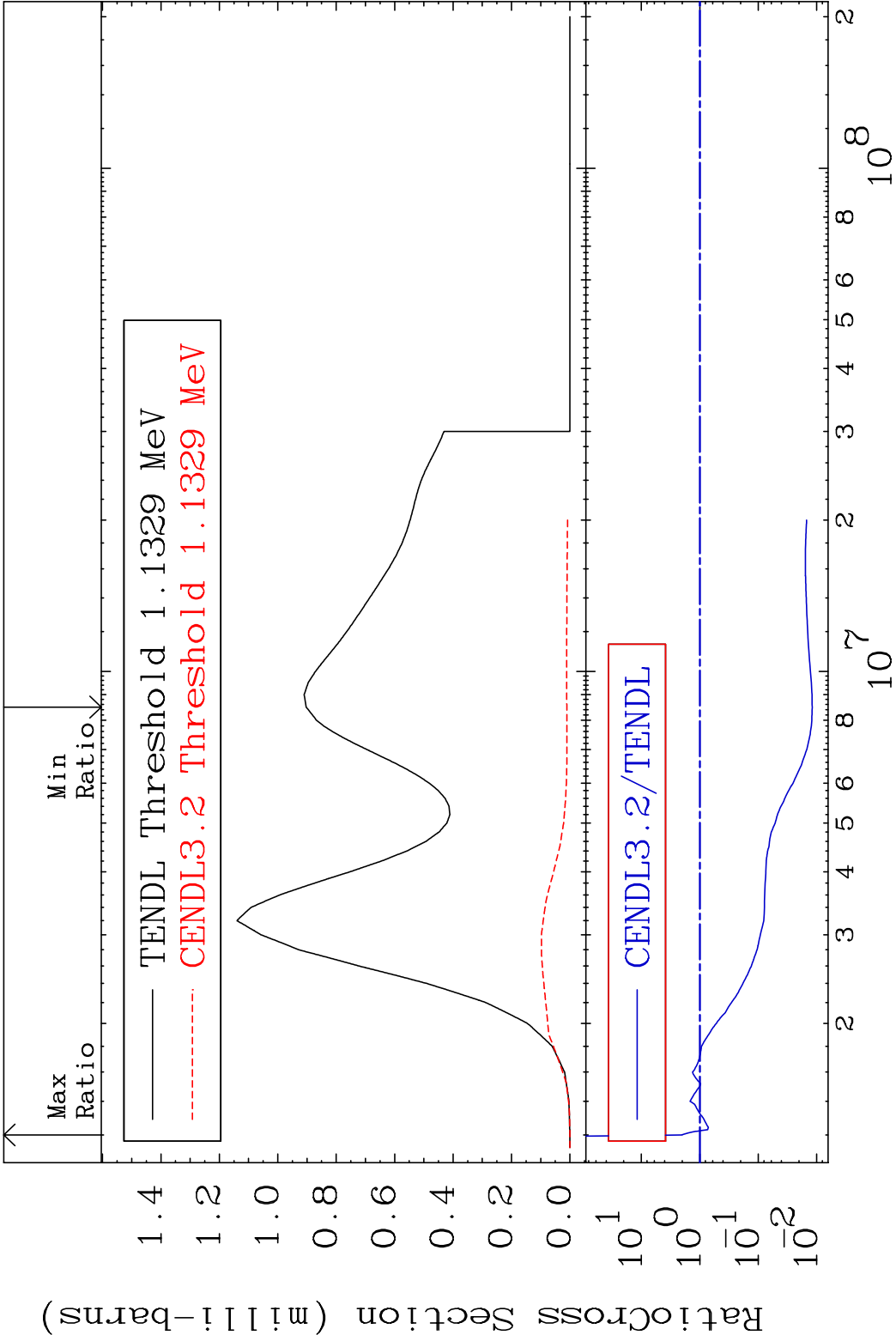
MAT 6249

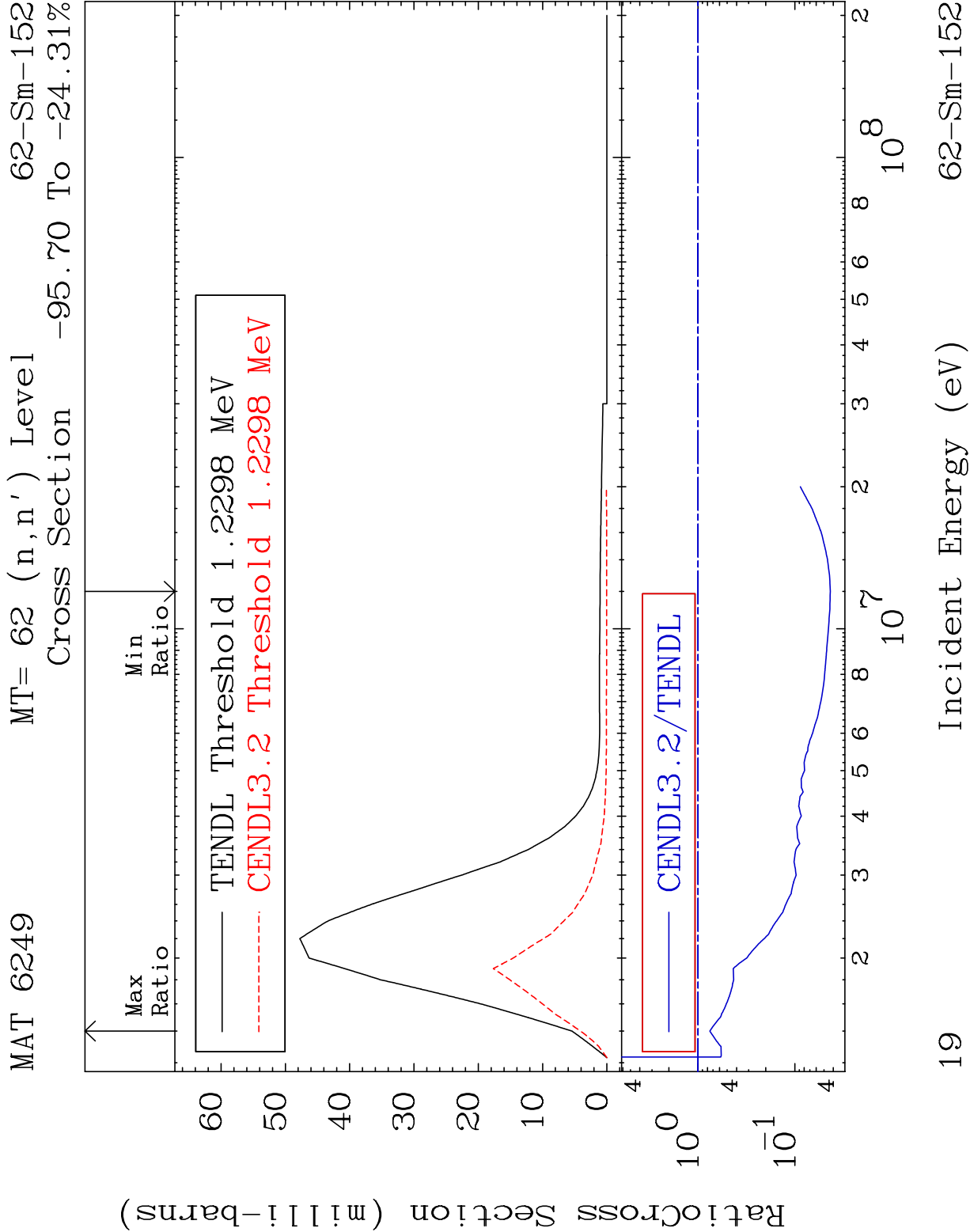
MT= 61 (n,n') Level

62-Sm-152

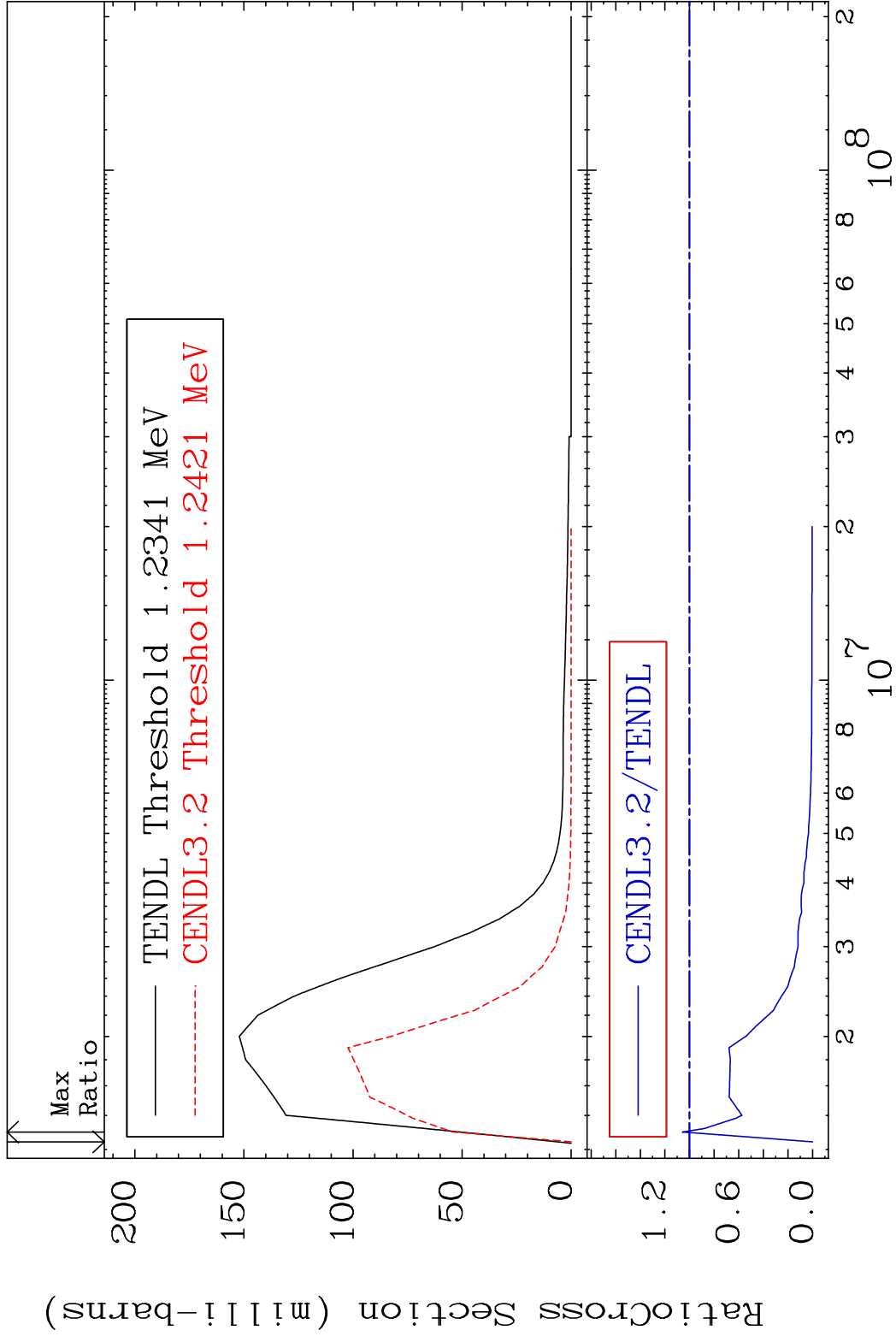
Cross Section

-98.81 To 105.3 %

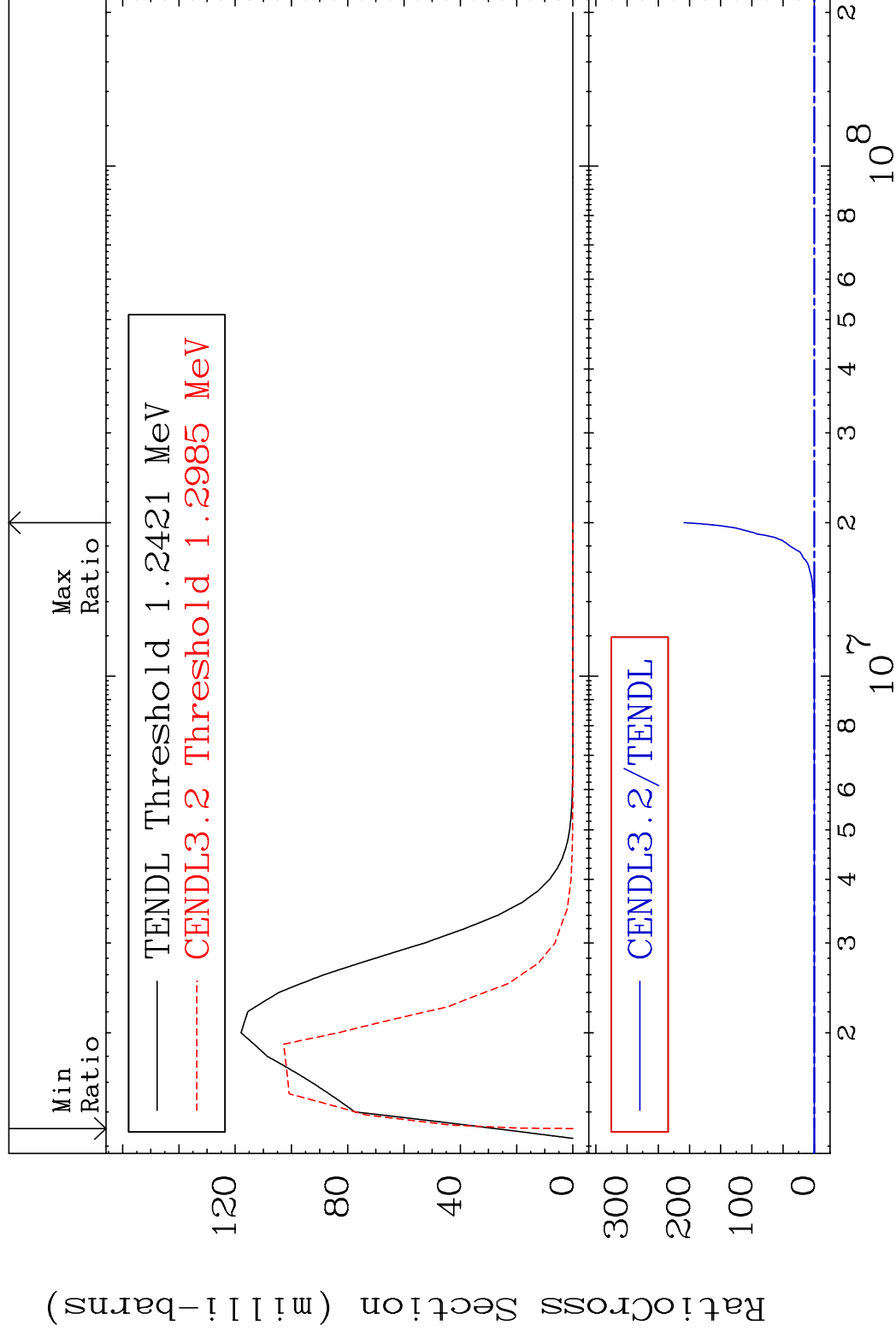




MAT 6249 MT= 63 (n,n') Level 62-Sm-152
Cross Section -100.0 To 5.831 %



Cross Section -100.0 To 9999. %



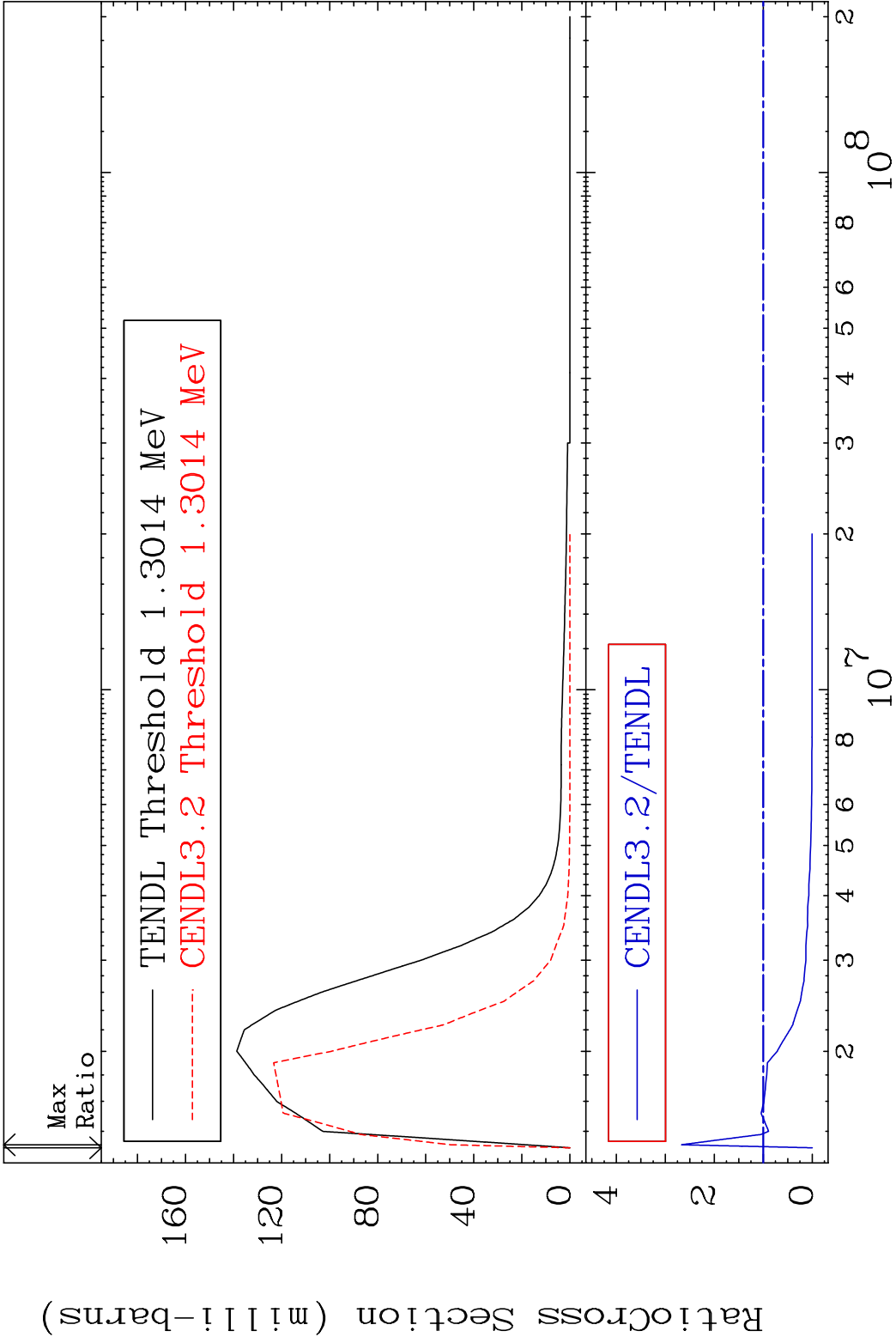
MAT 6249

MT= 65 (n,n') Level

62-Sm-152

Cross Section

-100.0 To 166.9 %



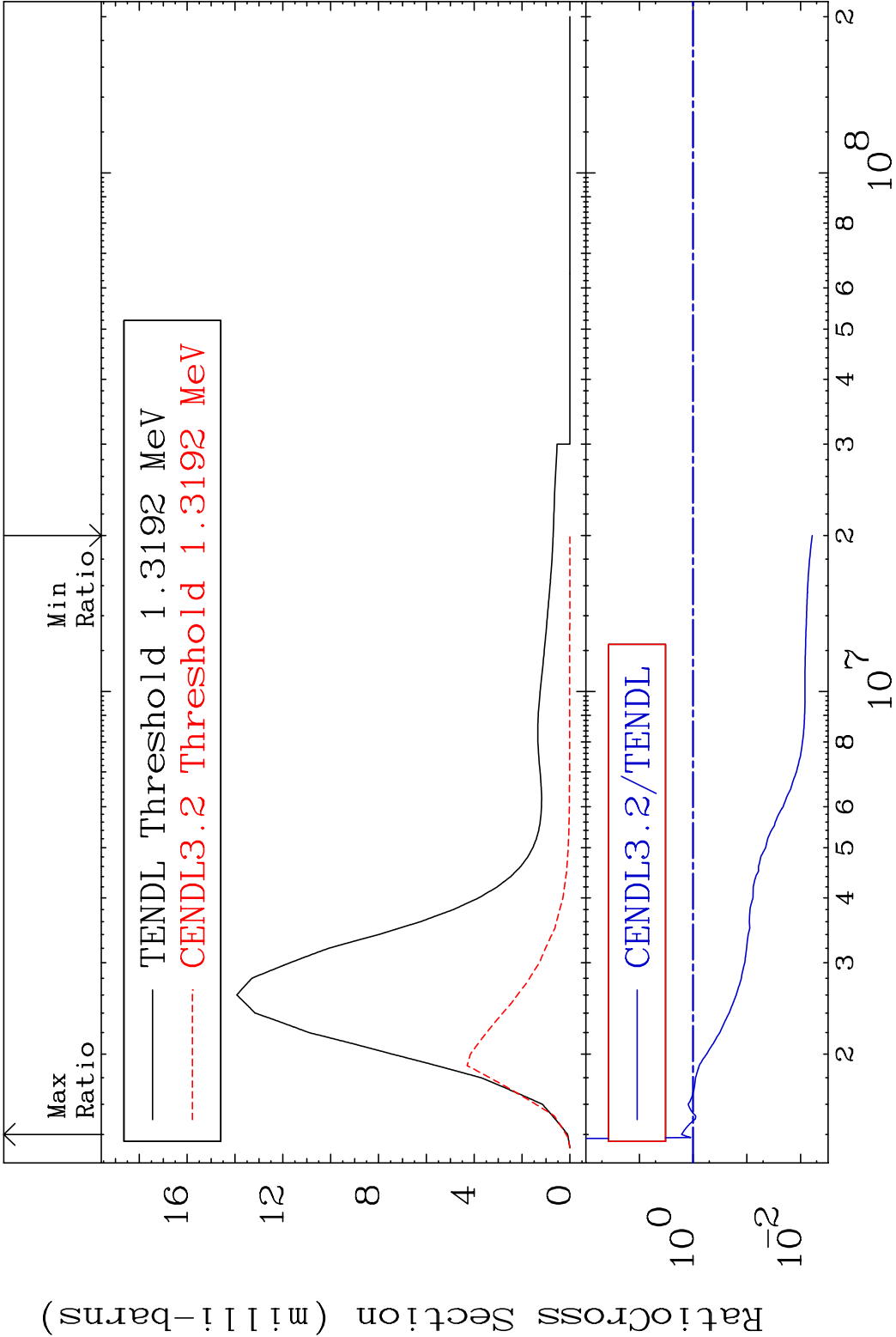
MAT 6249

MT= 66 (n,n') Level

62-Sm-152

Cross Section

-99.39 To 64.34 %



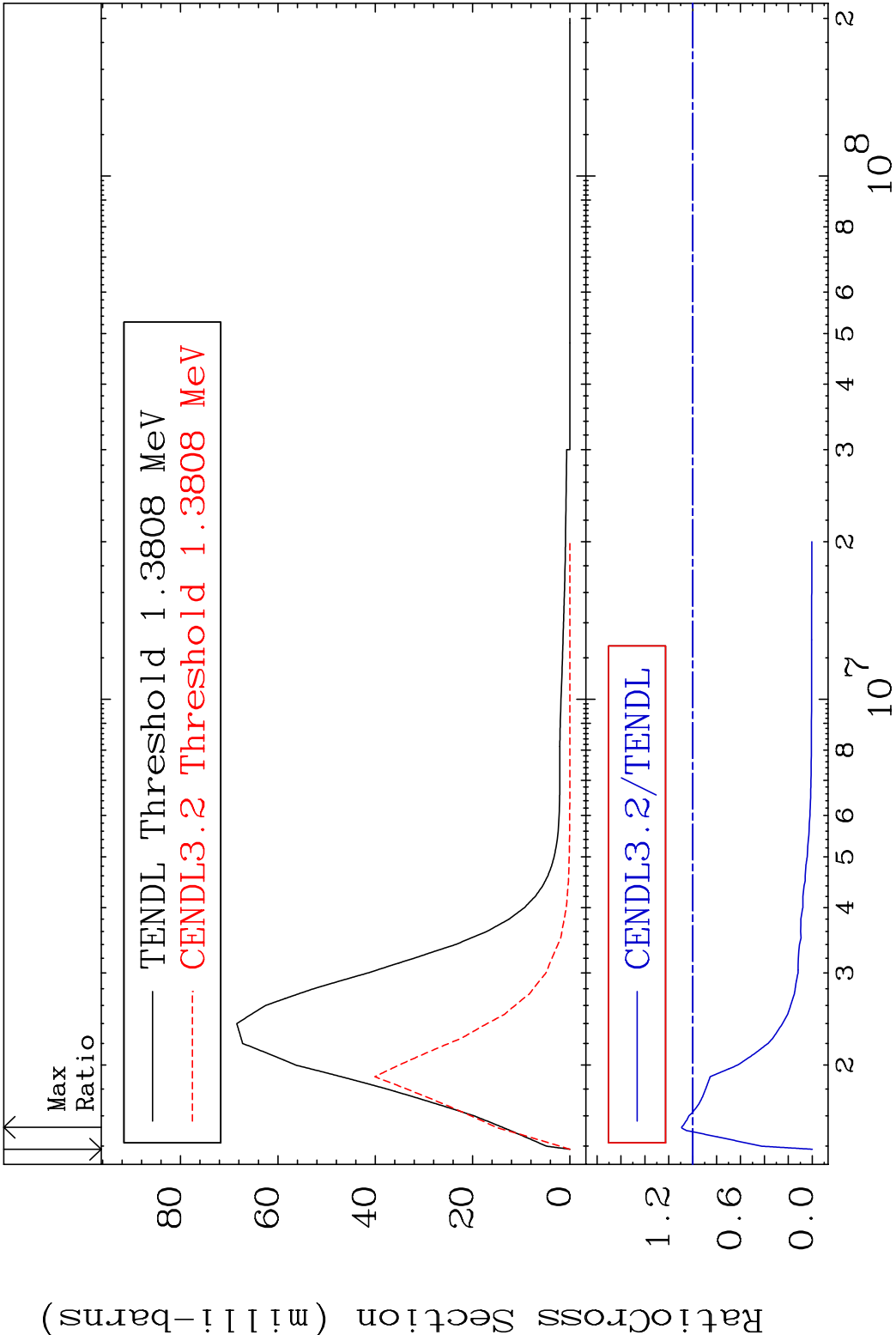
MAT 6249

MT= 67 (n,n') Level

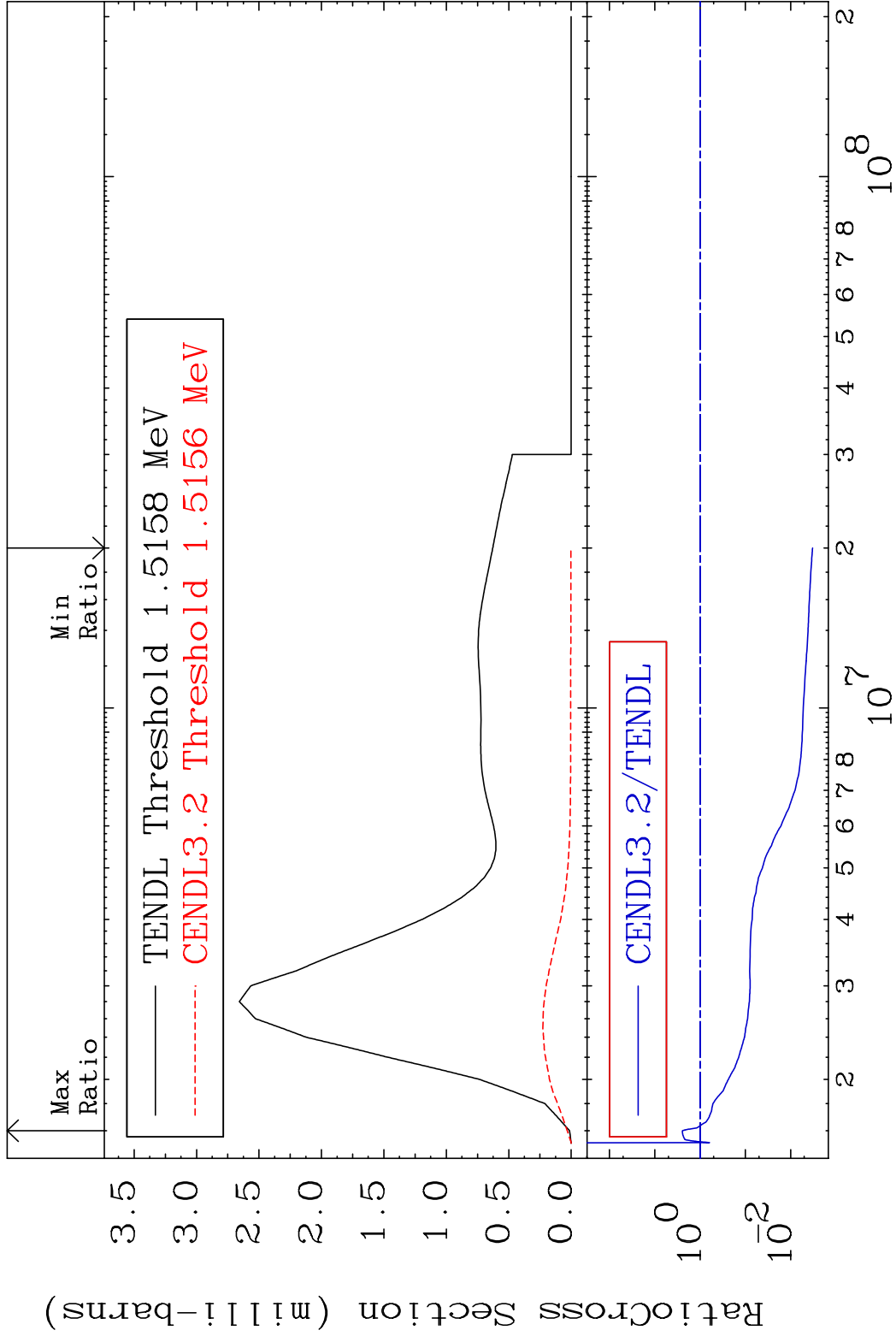
62-Sm-152

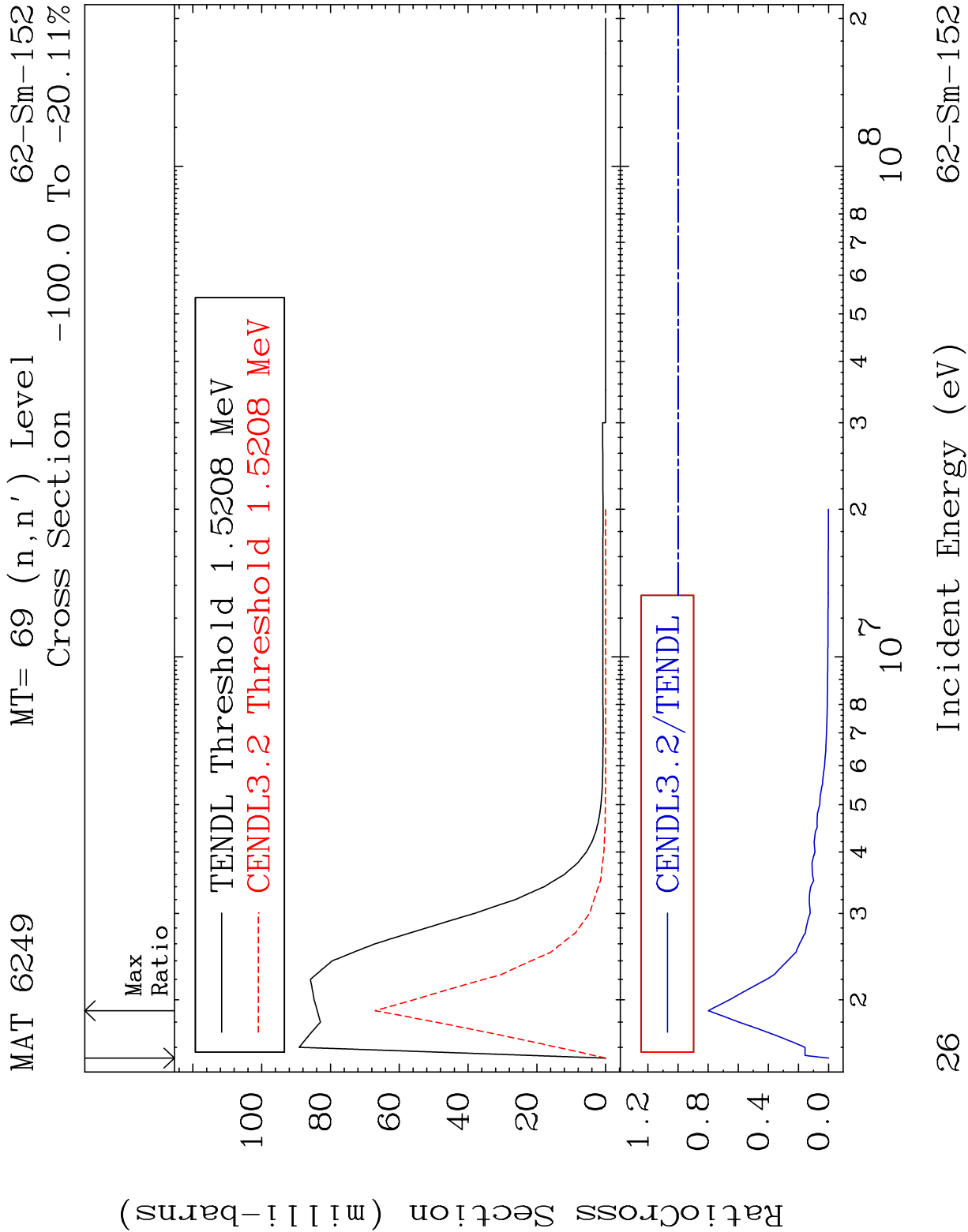
Cross Section

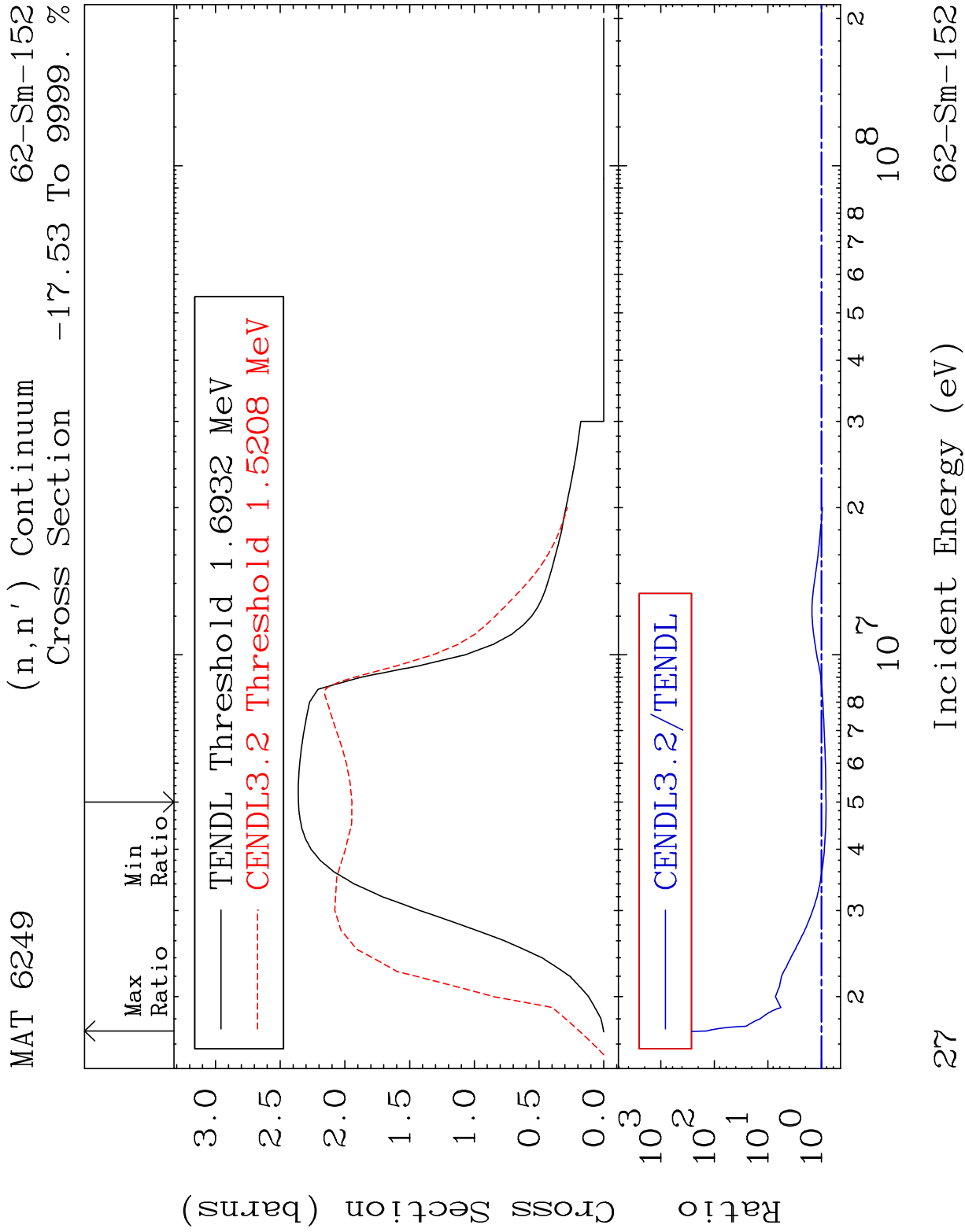
-100.0 To 9.328 %

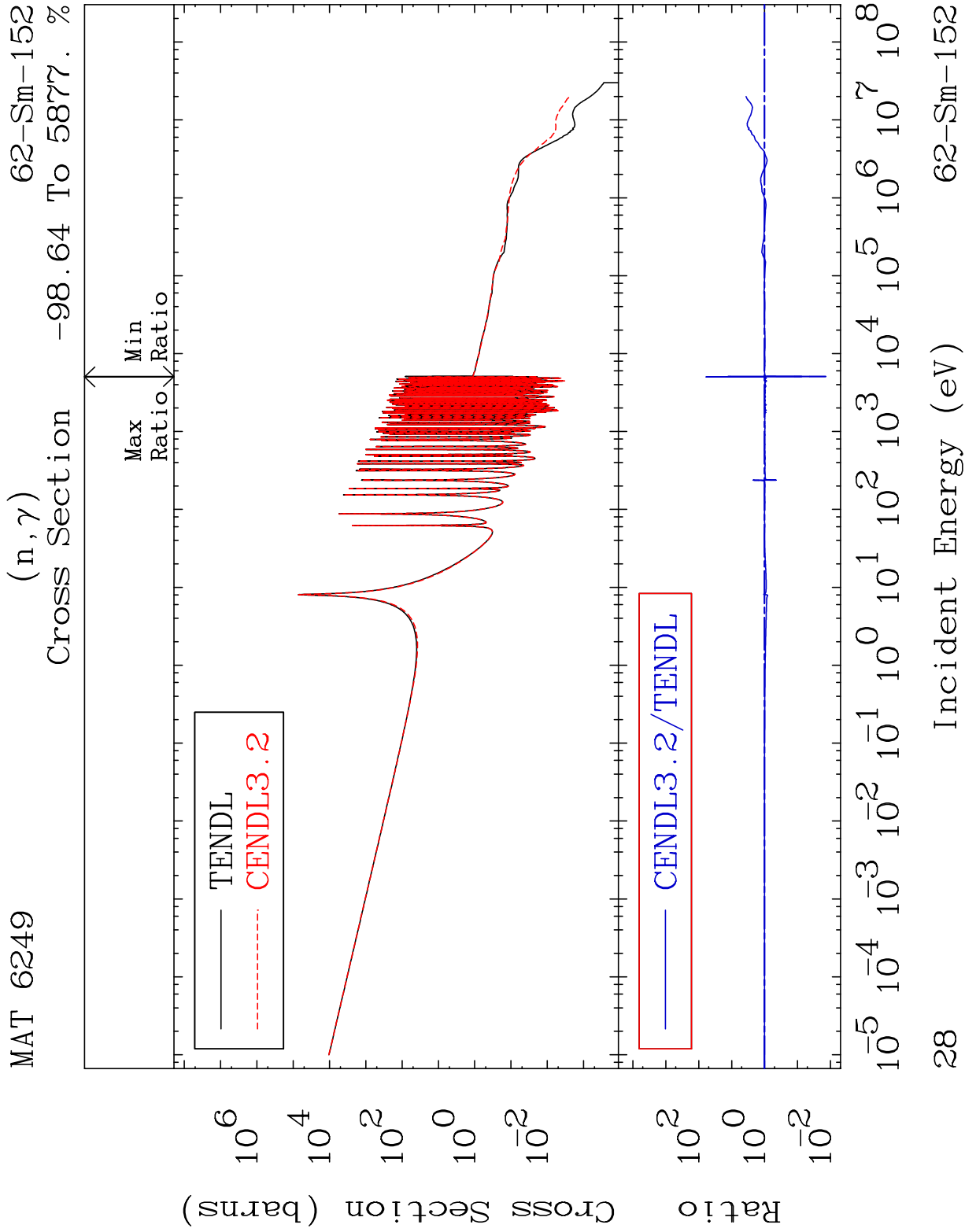


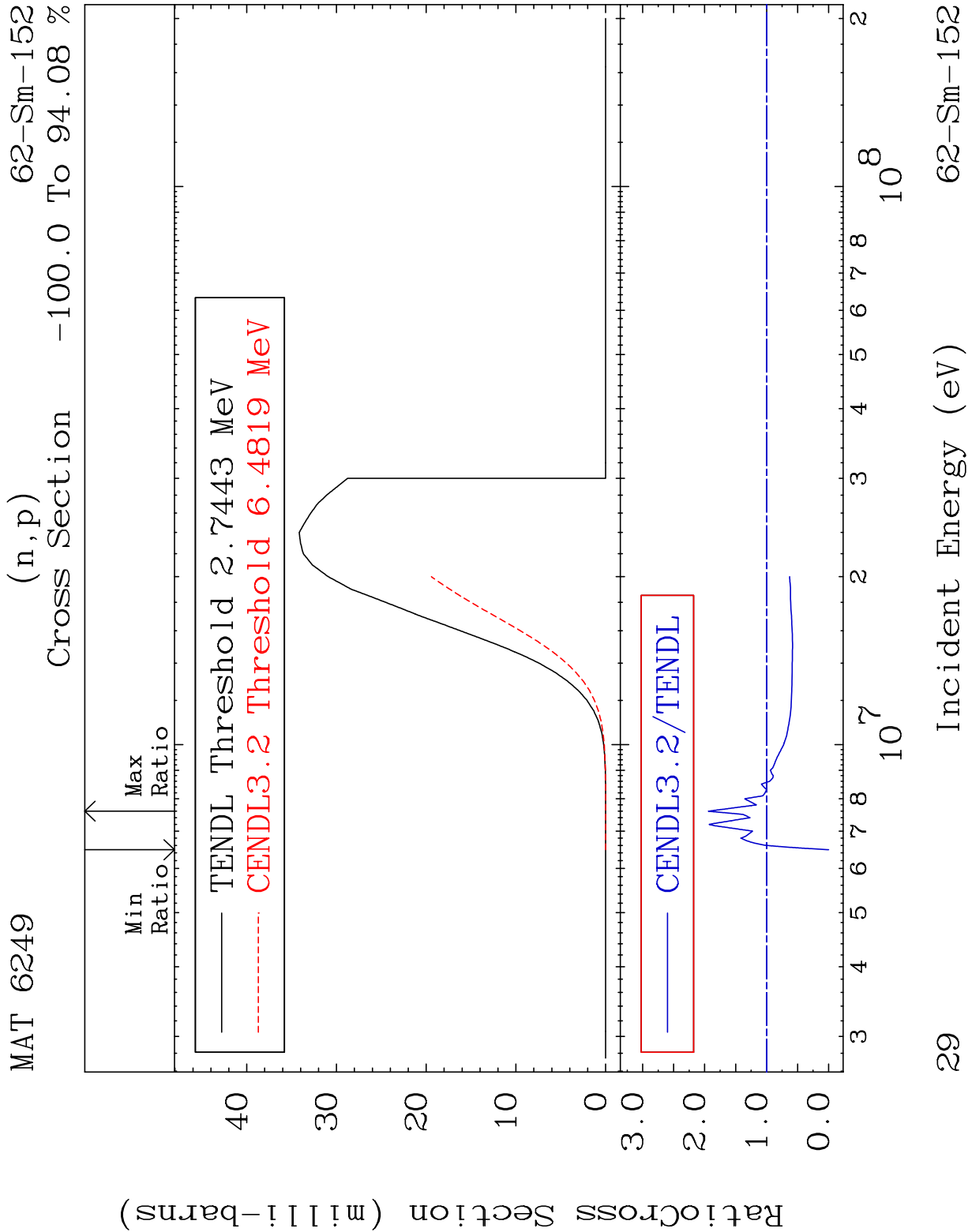
MAT 6249 MT= 68 (n,n') Level 62-Sm-152
Cross Section -99.67 To 146.3 %

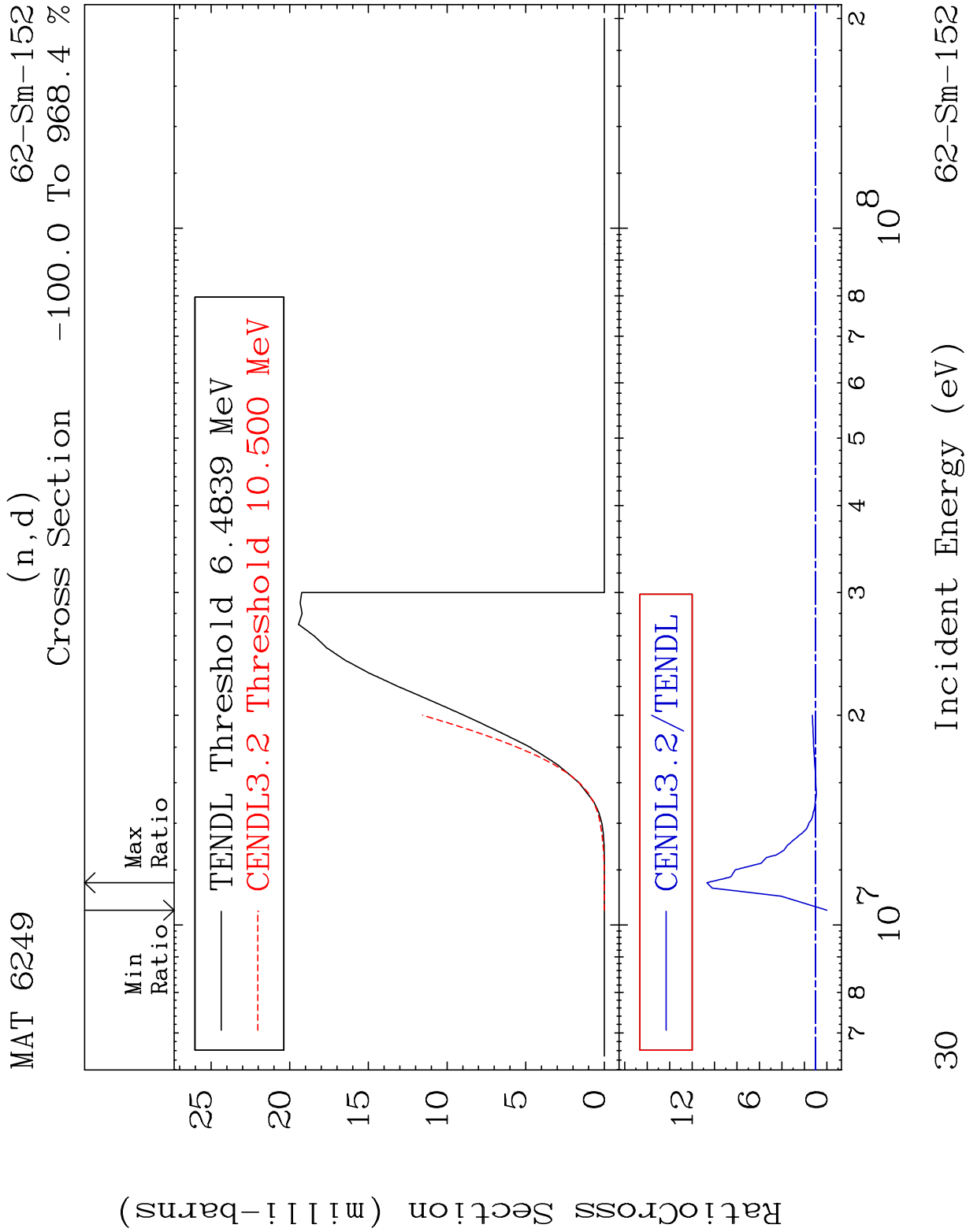


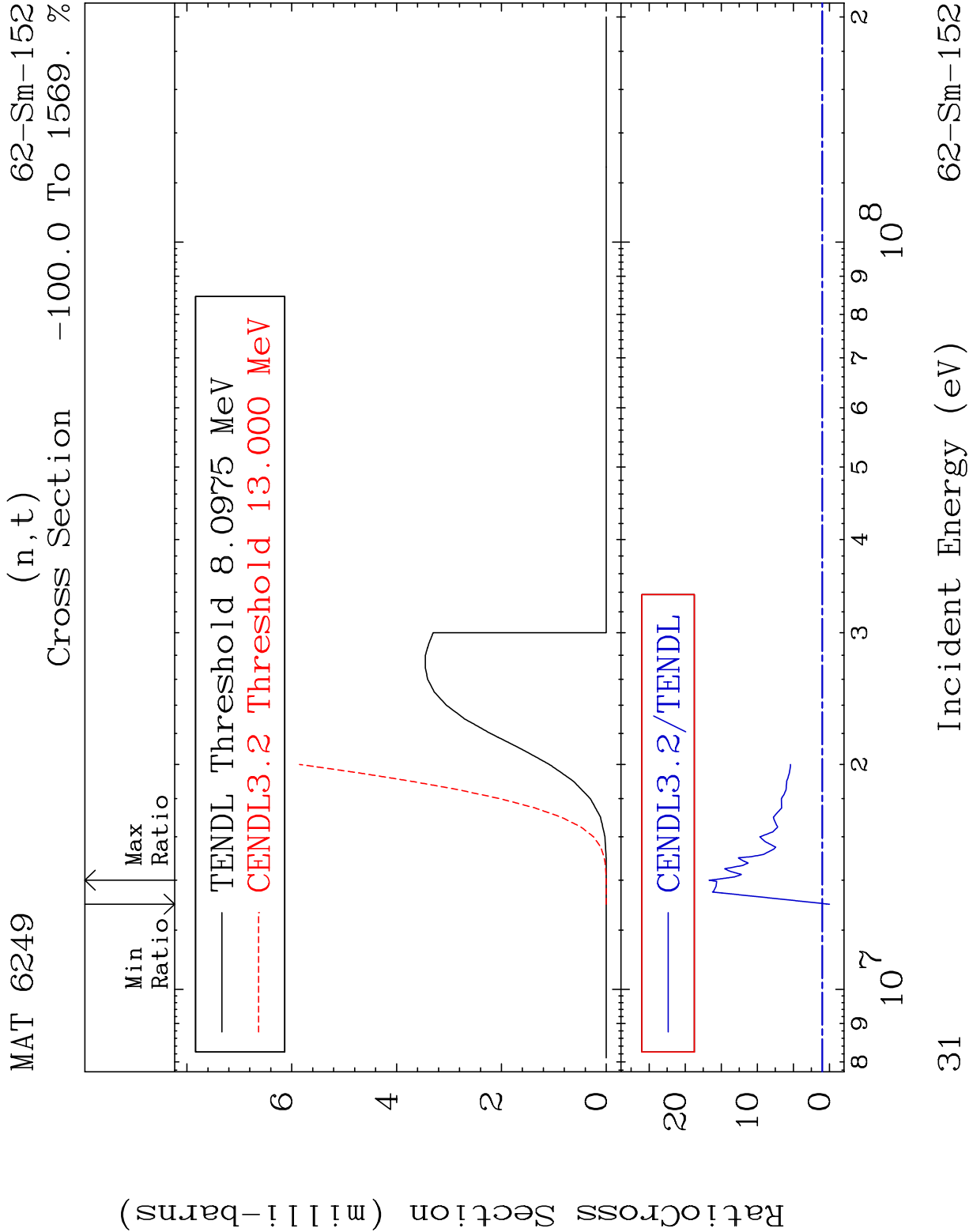


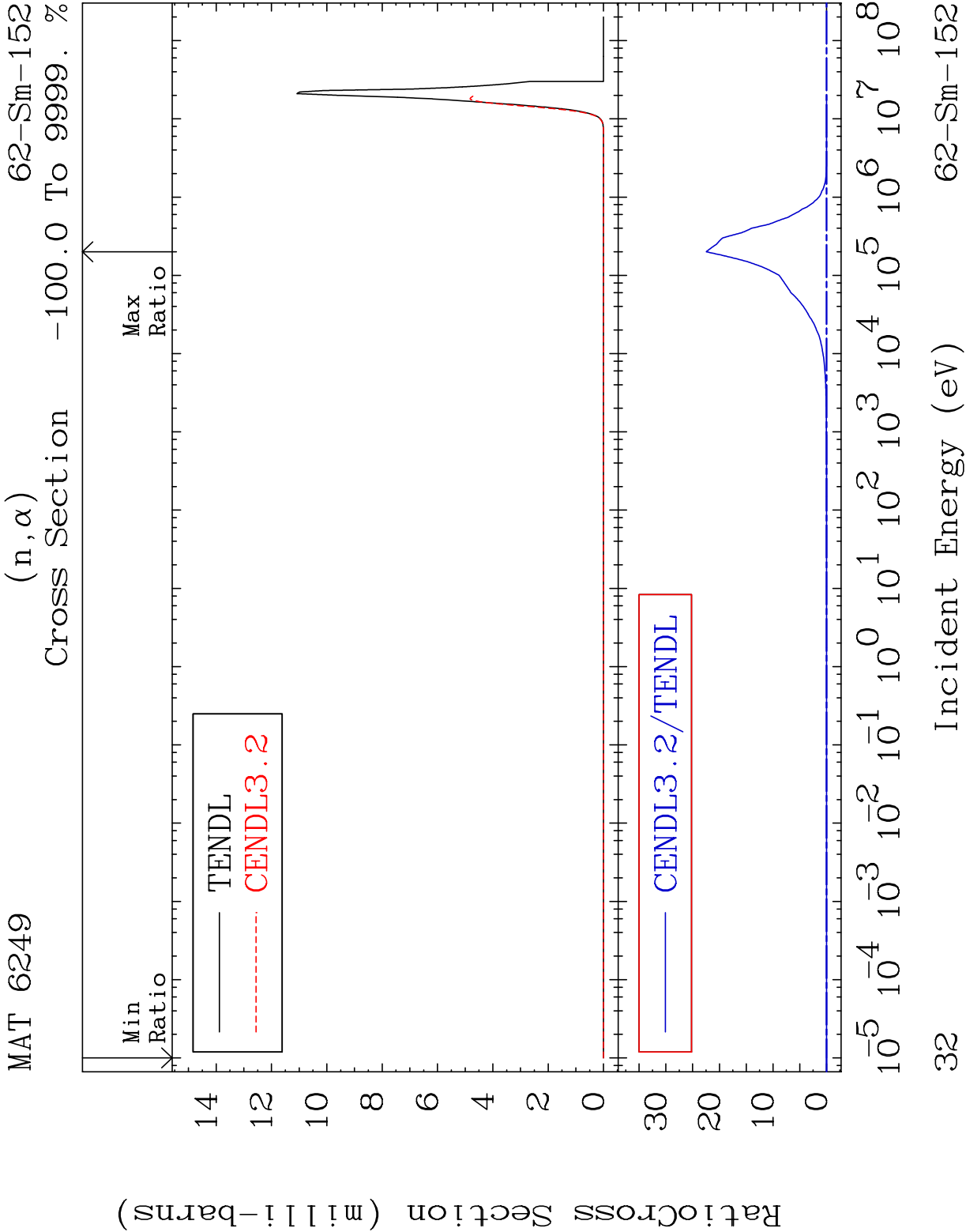


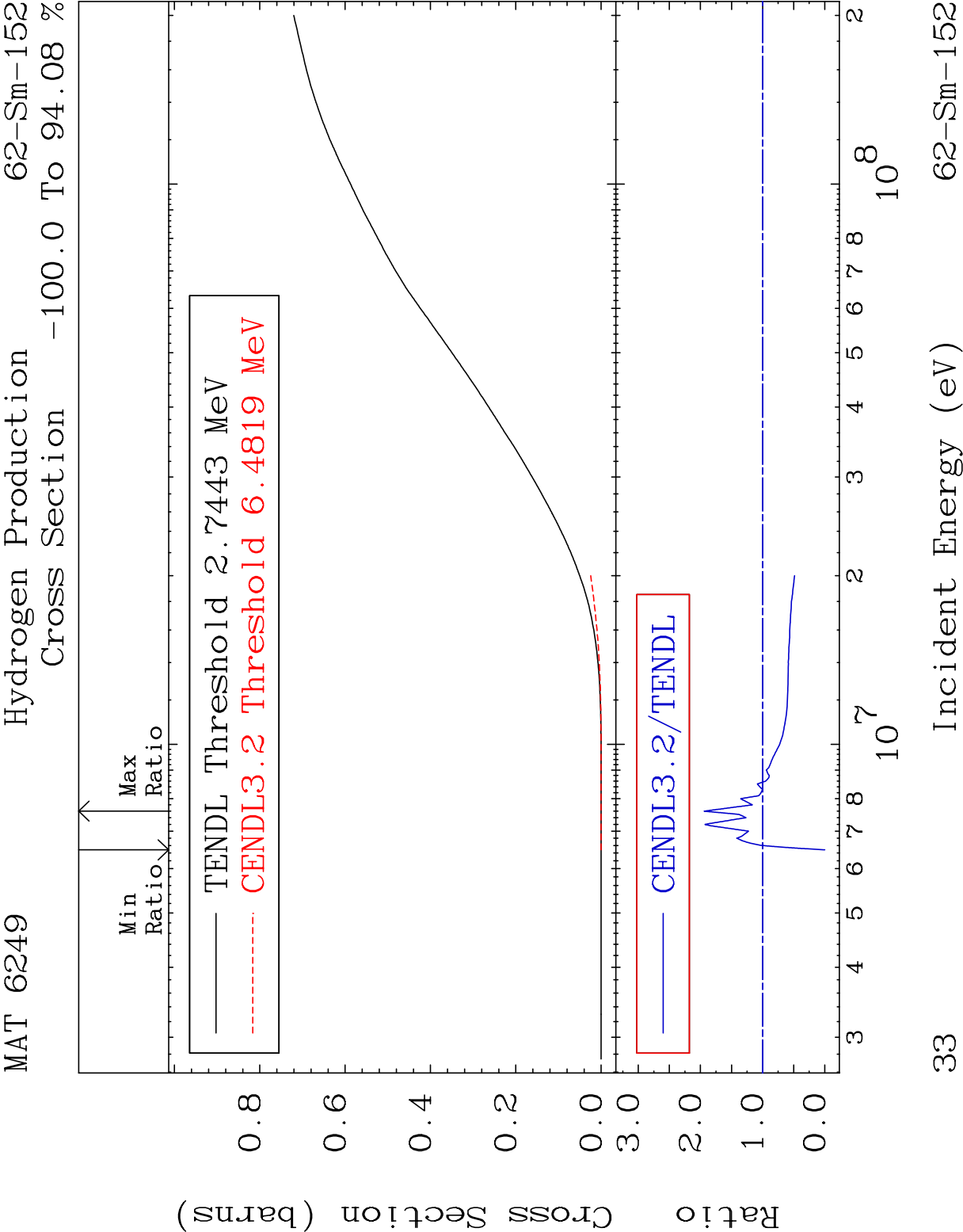


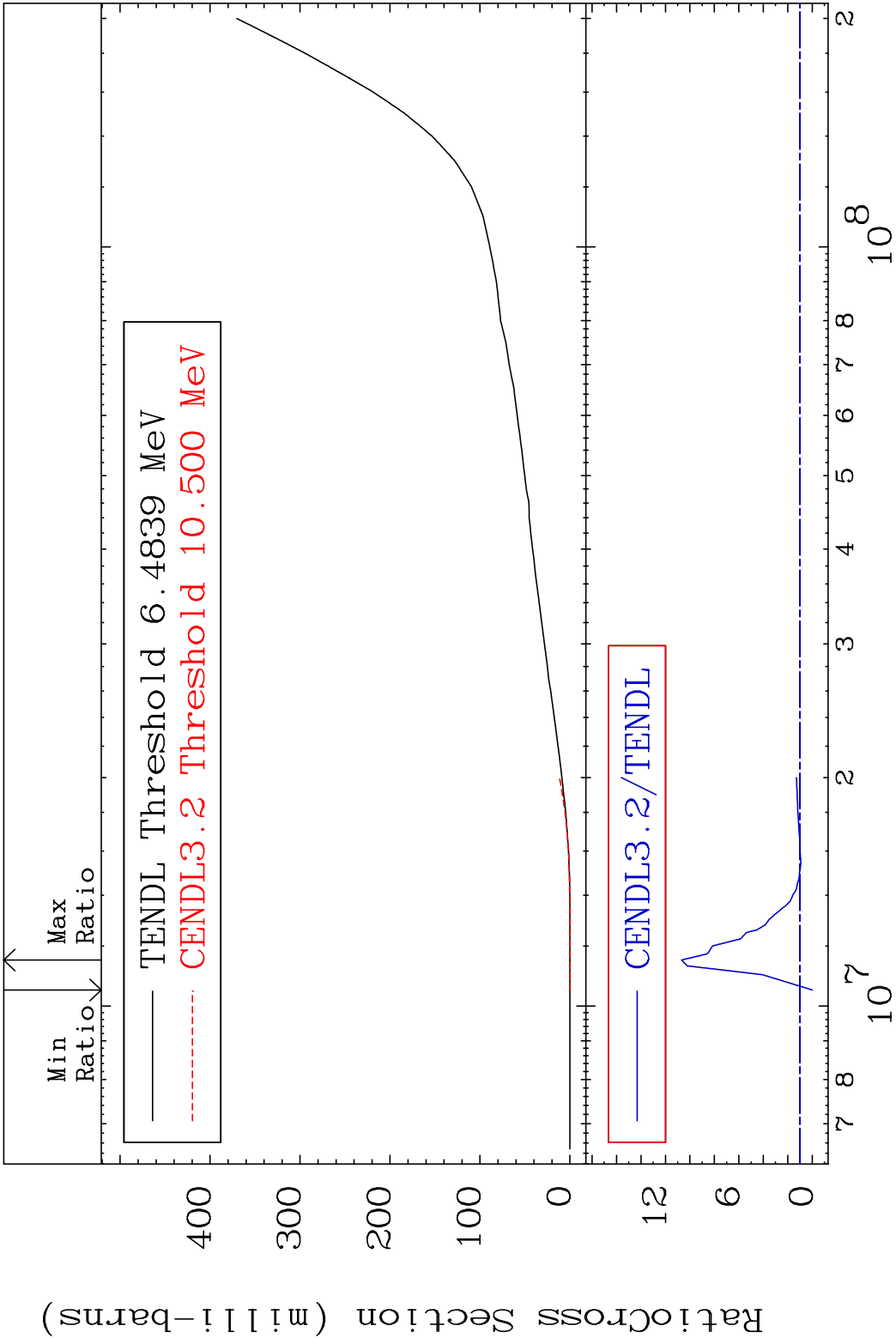












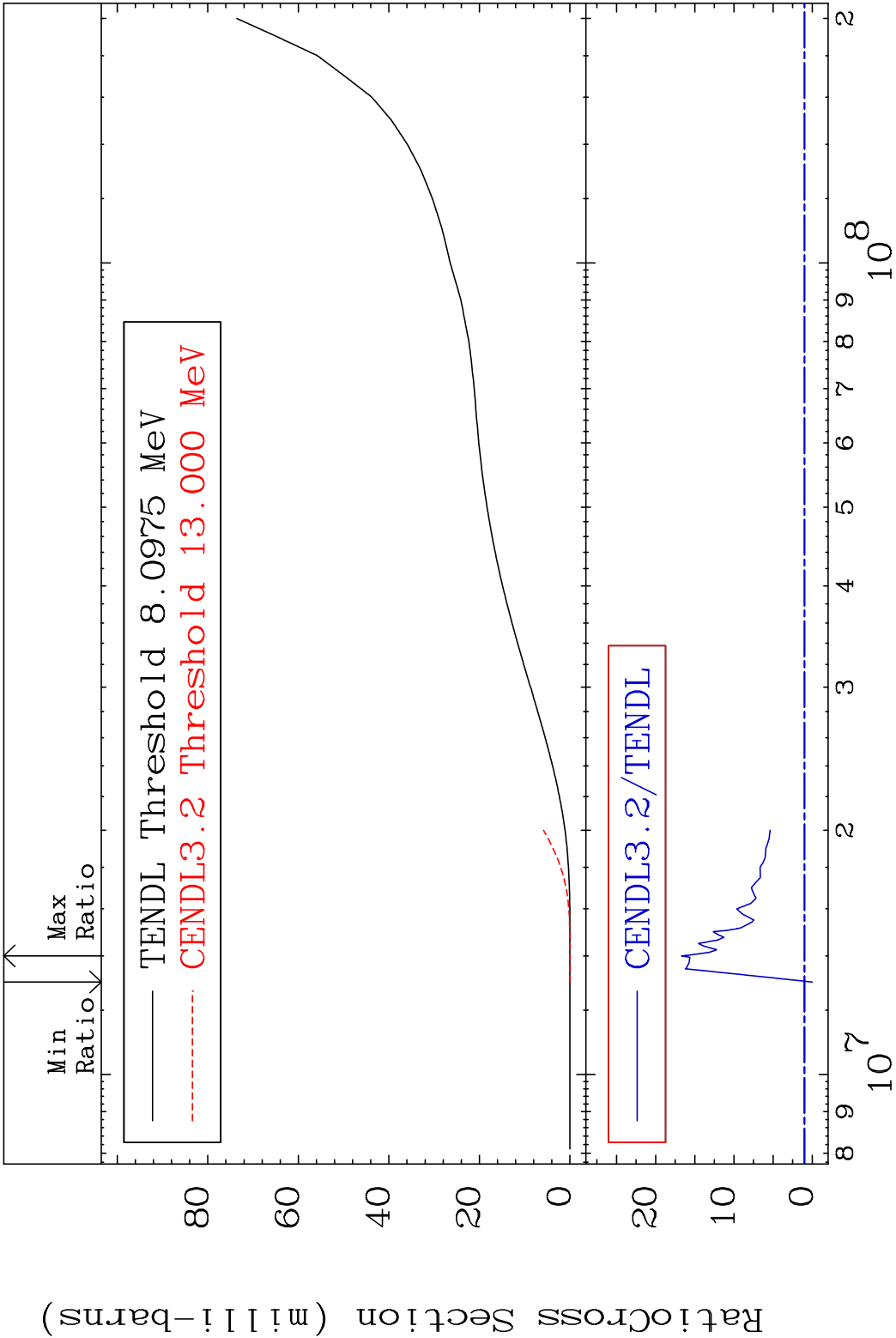
MAT 6249

Tritium Production

Cross Section

-100.0 To 1569. %

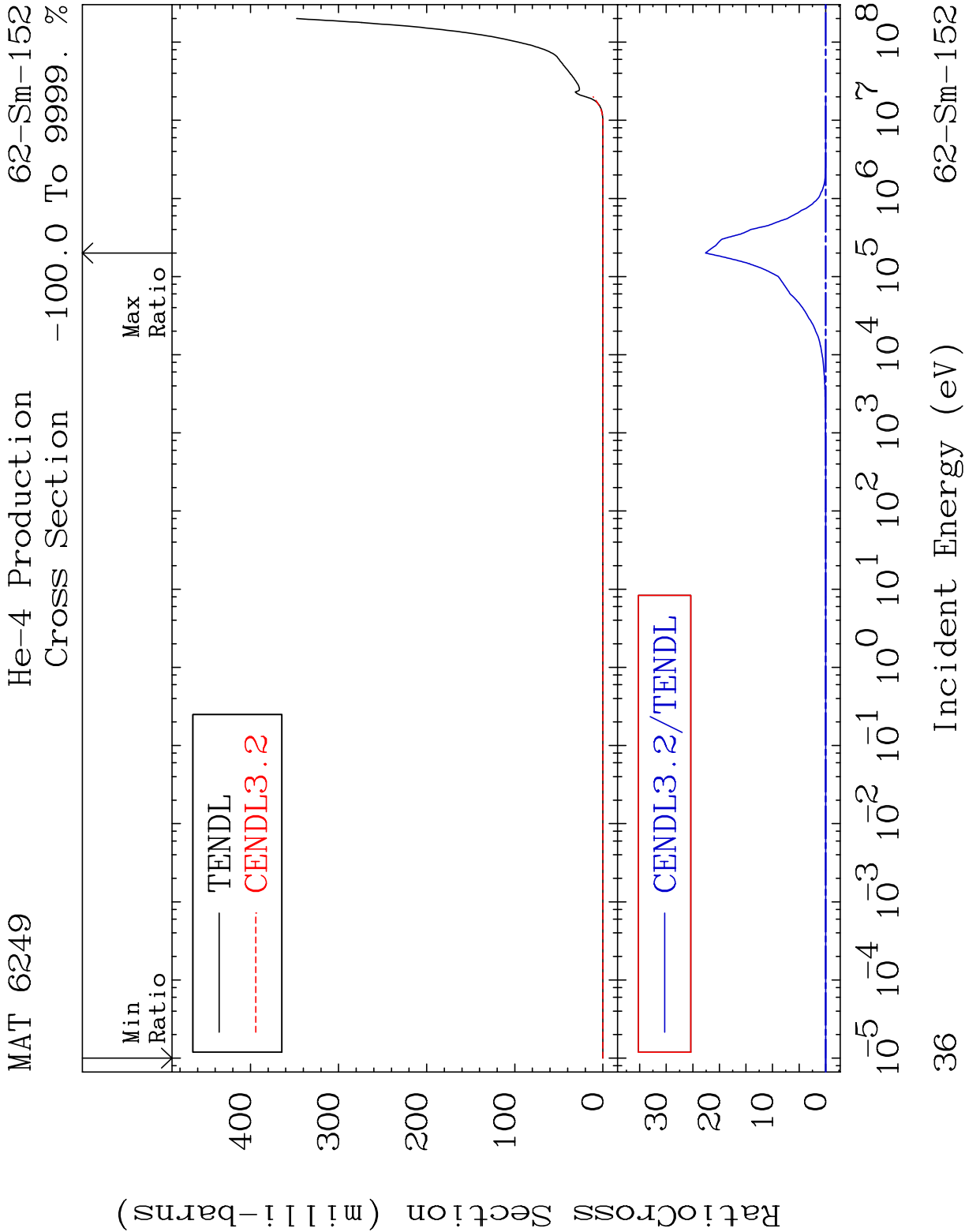
62-Sm-152



35

Incident Energy (eV)

62-Sm-152



MAT 6249

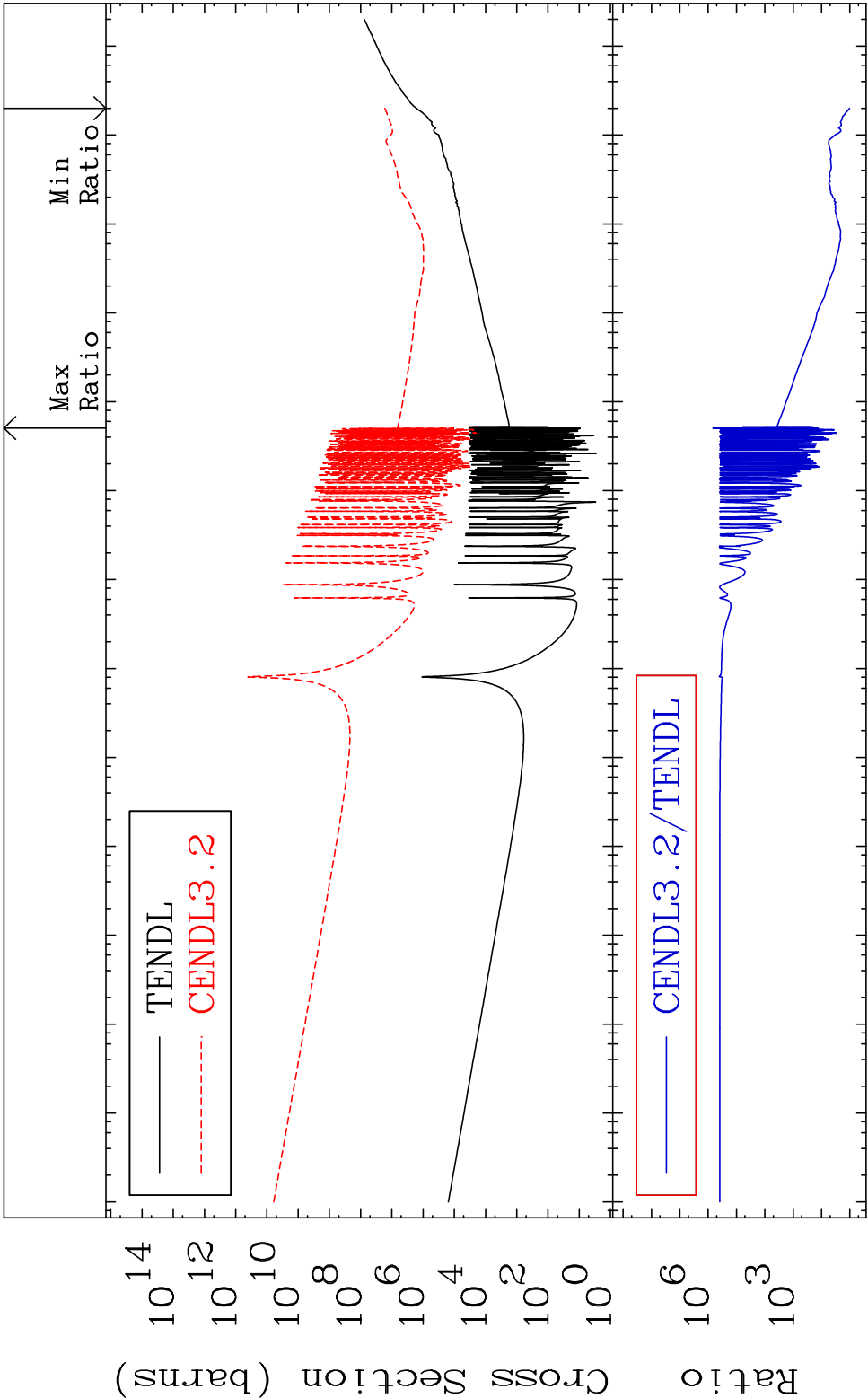
Kerma total (eV-barns)

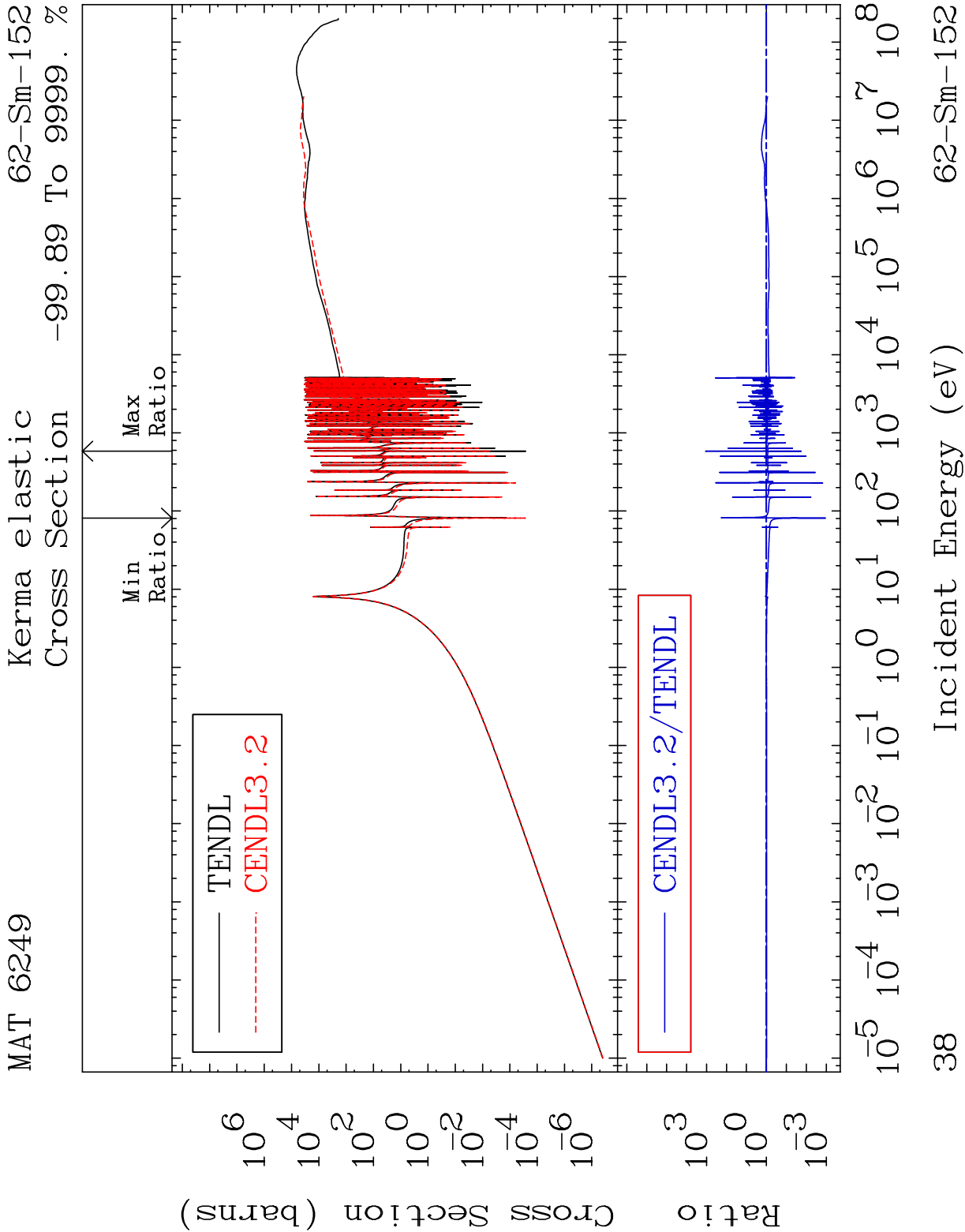
62-Sm-152

Cross Section

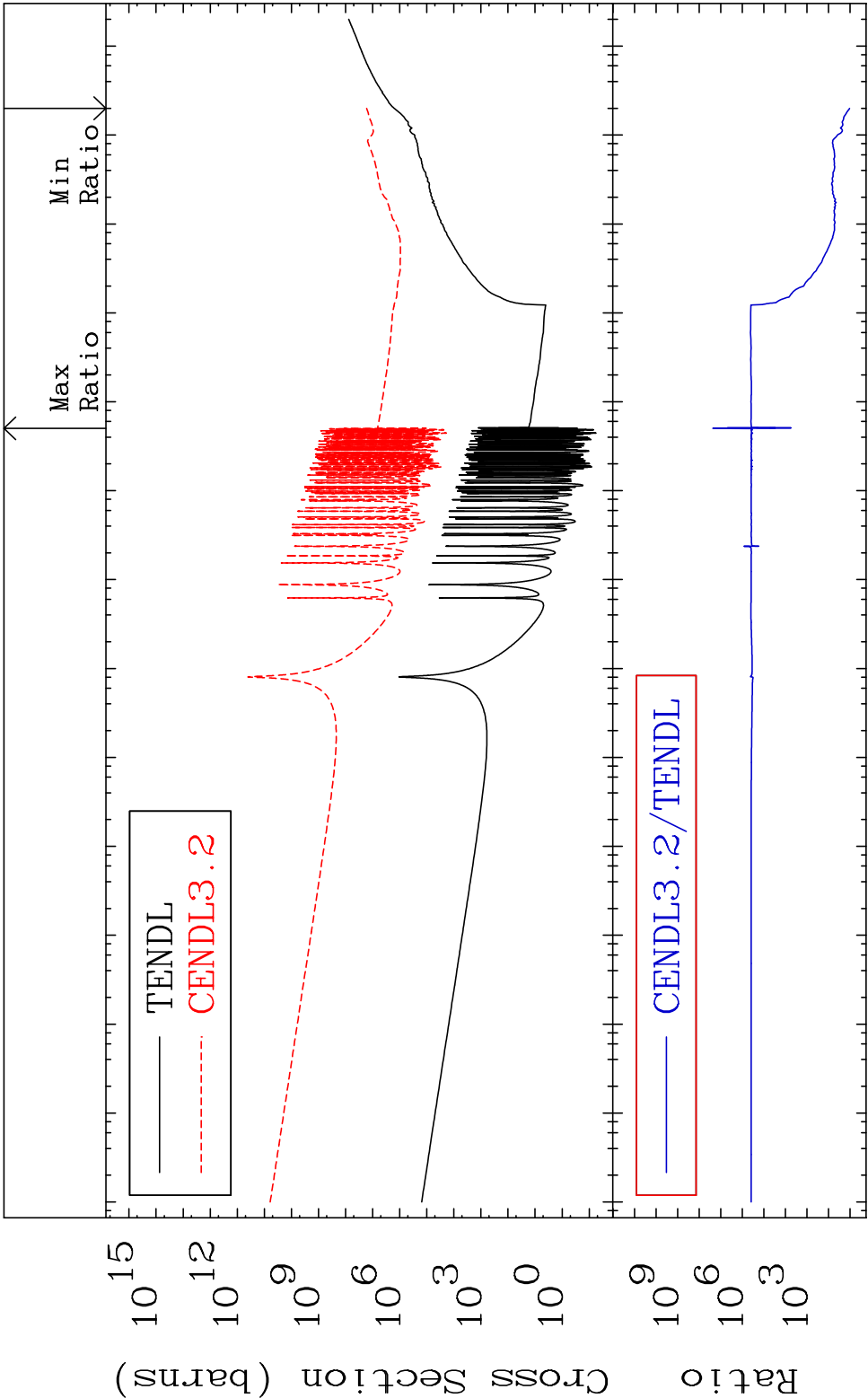
933.7

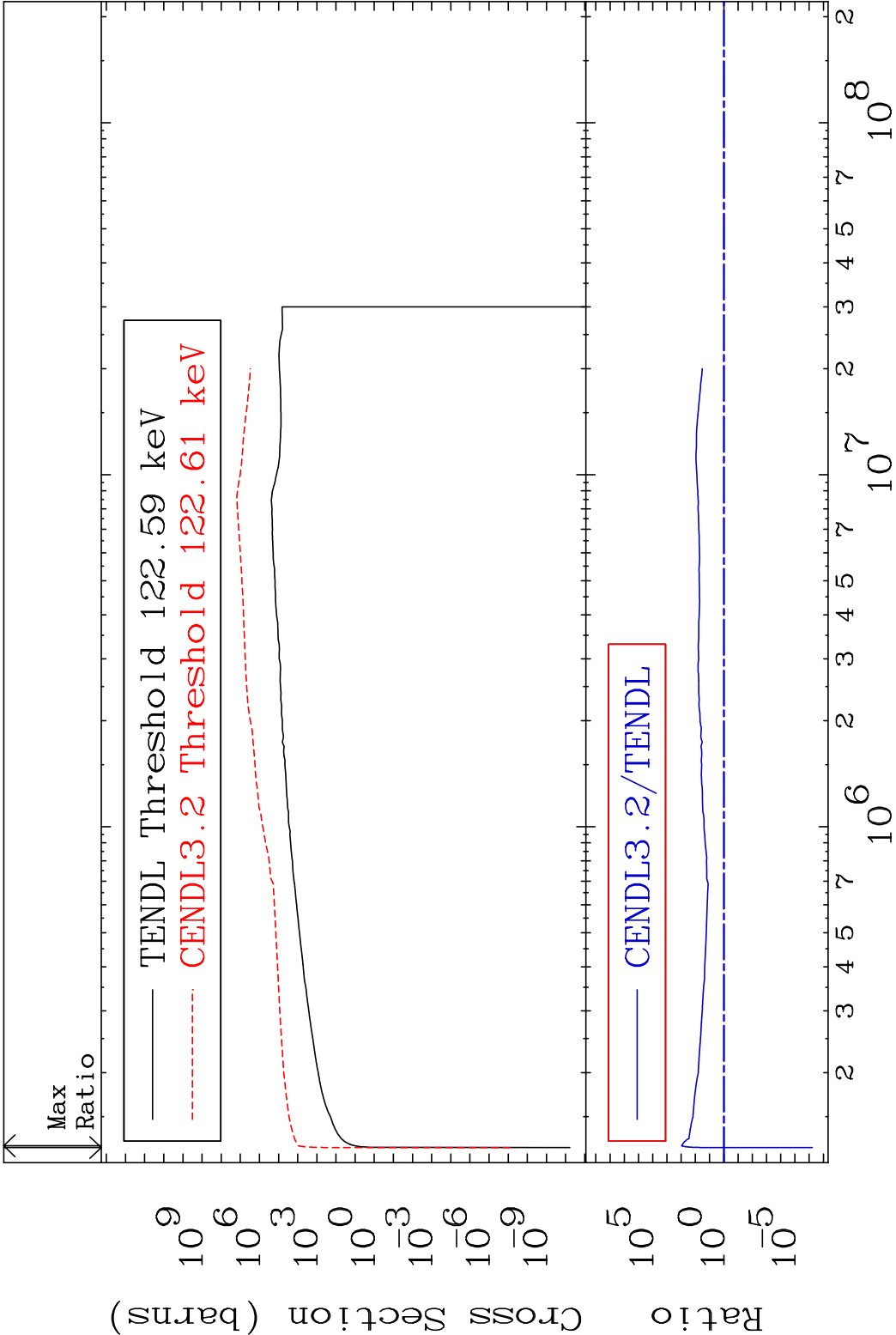
To 9999. %





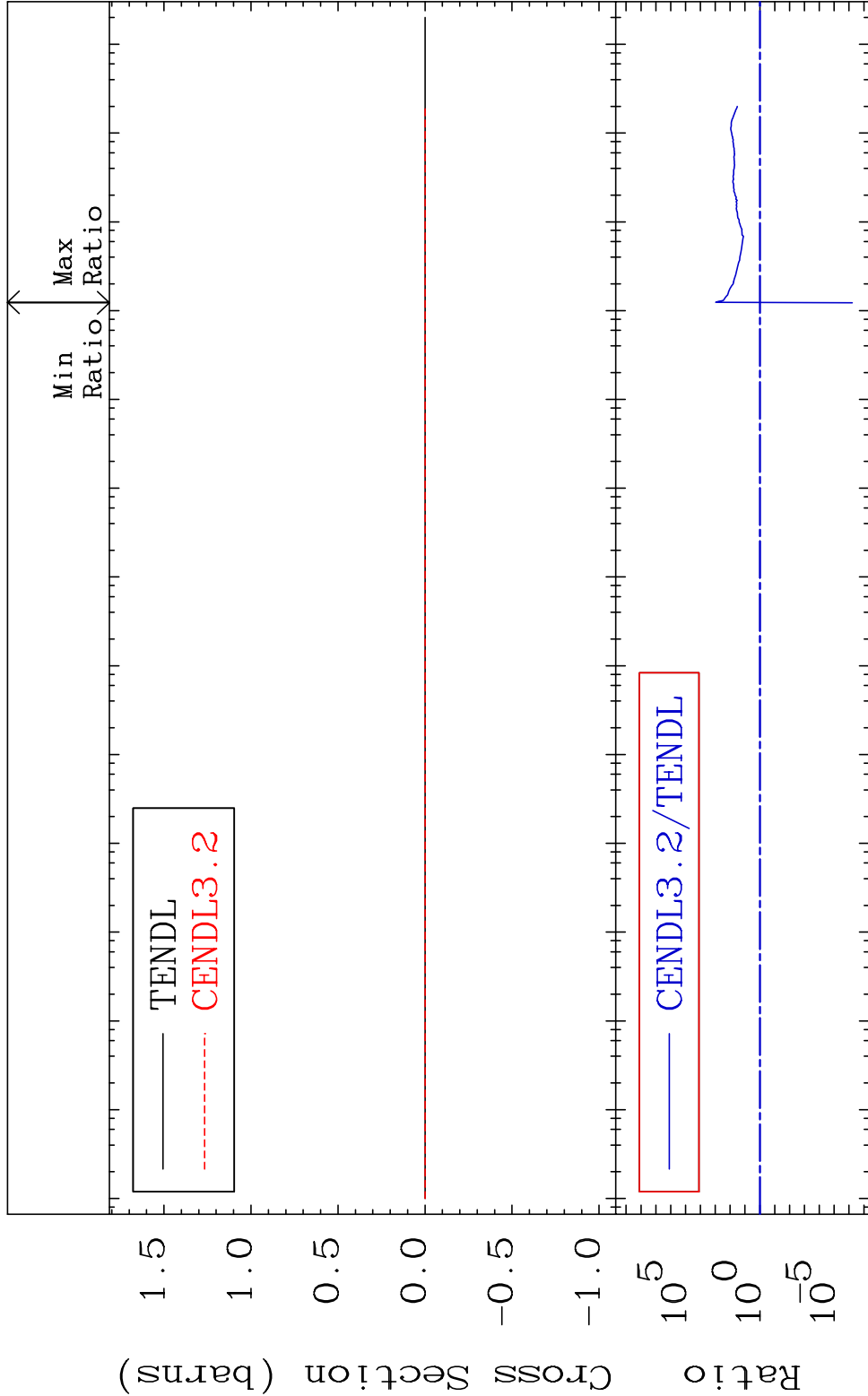
MAT 6249 Kerma non-elastic (all but mt2) 62-Sm-152
 Cross Section 958.0 To 9999. %

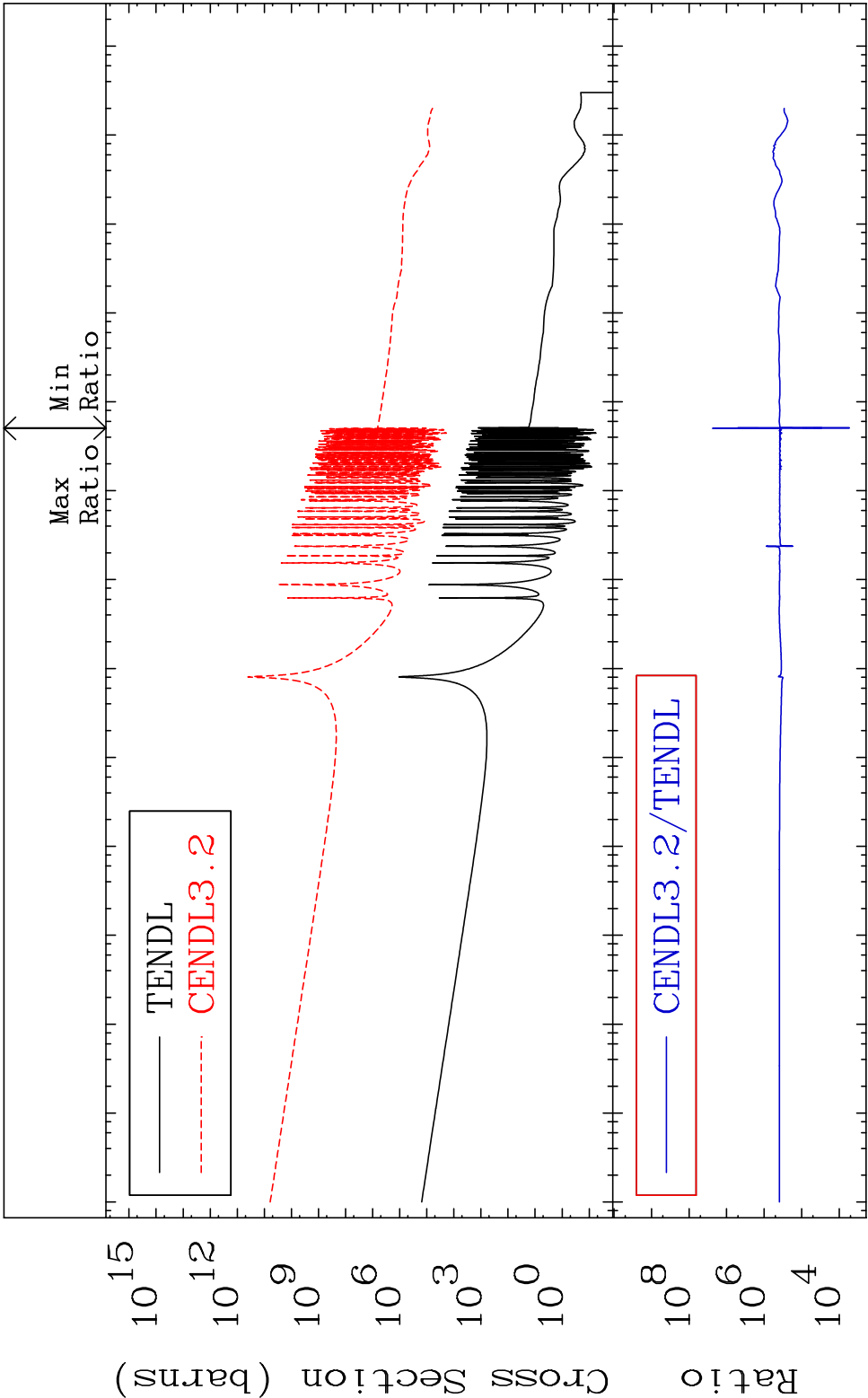


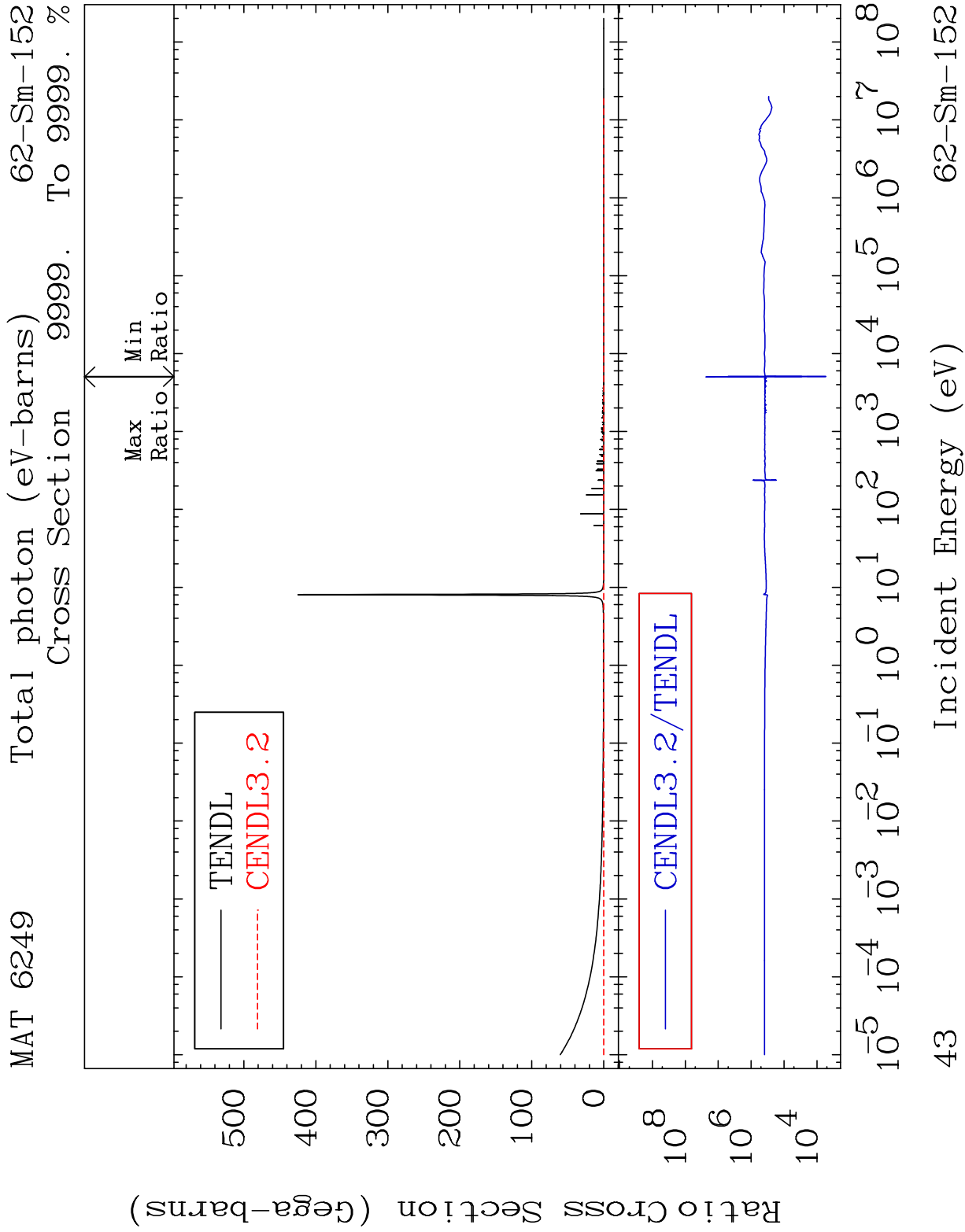


MAT 6249Kerma fission (mt18 or mt19-20-21-38)62-Sm-152

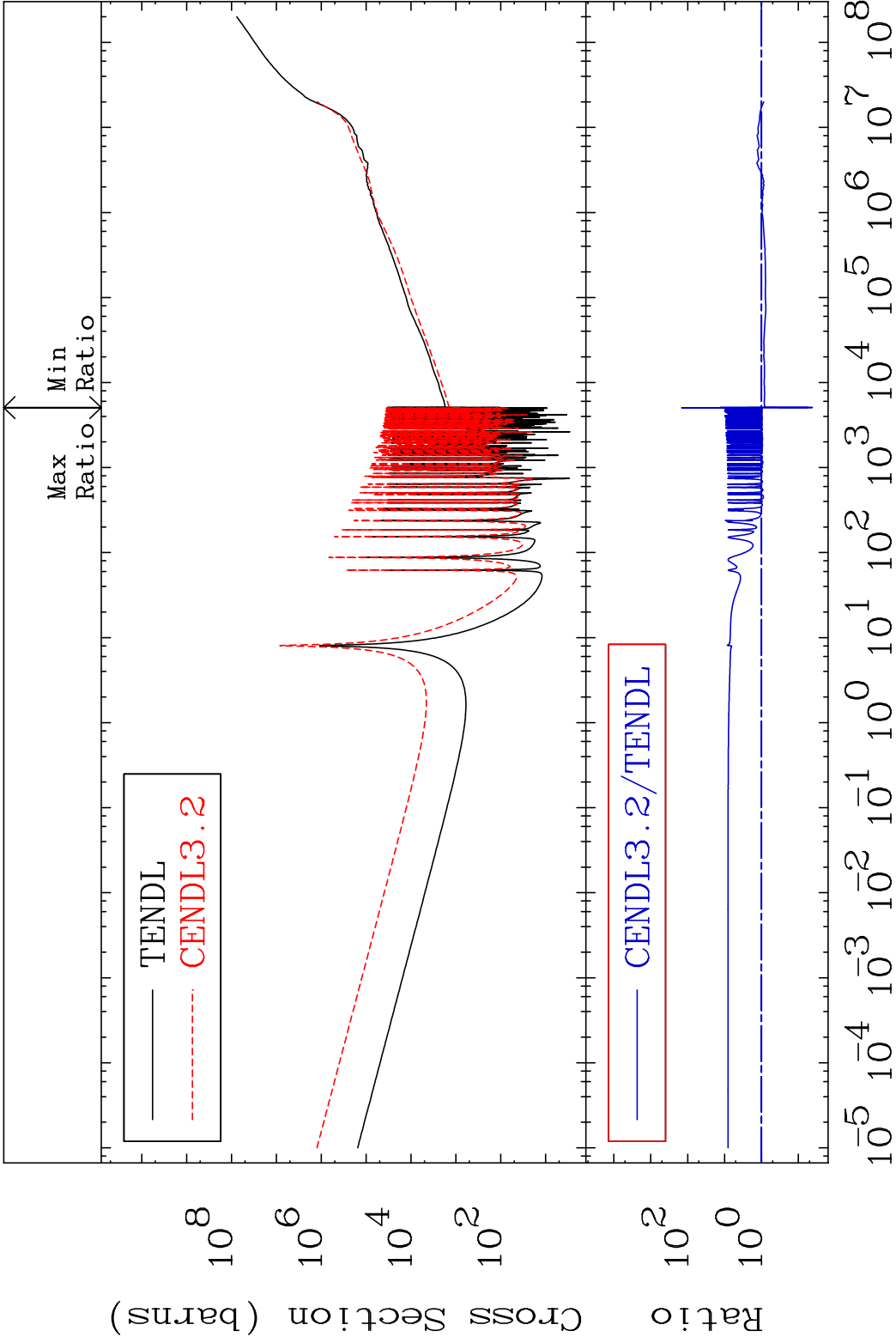
Cross Section -100.0 To 9999. %







MAT 6249 Total kinematic kerma (high limit) 62-Sm-152
Cross Section -95.78 To 9999. %



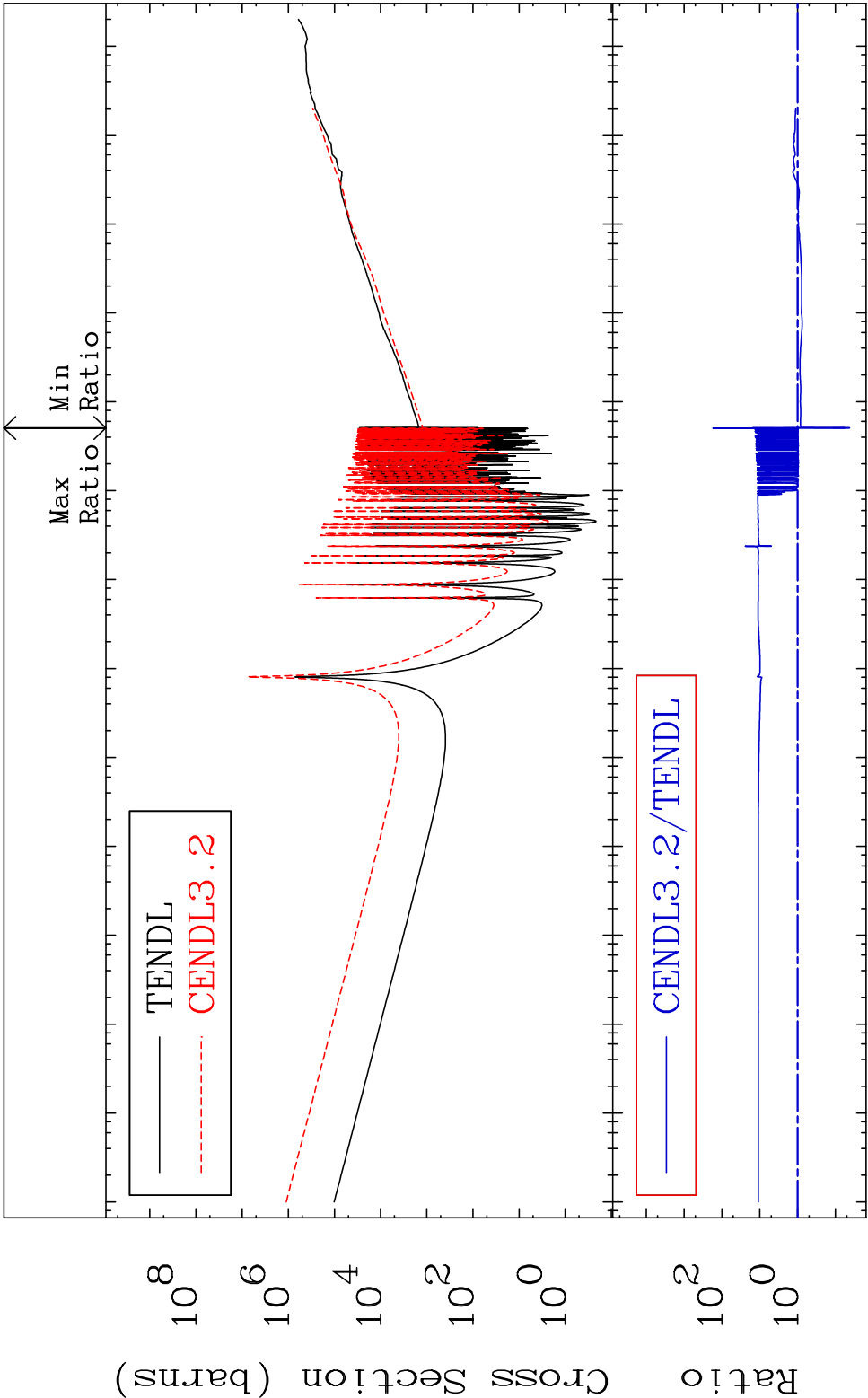
MAT 6249

Dpa total (eV-barns)

62-Sm-152

Cross Section

-95.75 To 9999. %



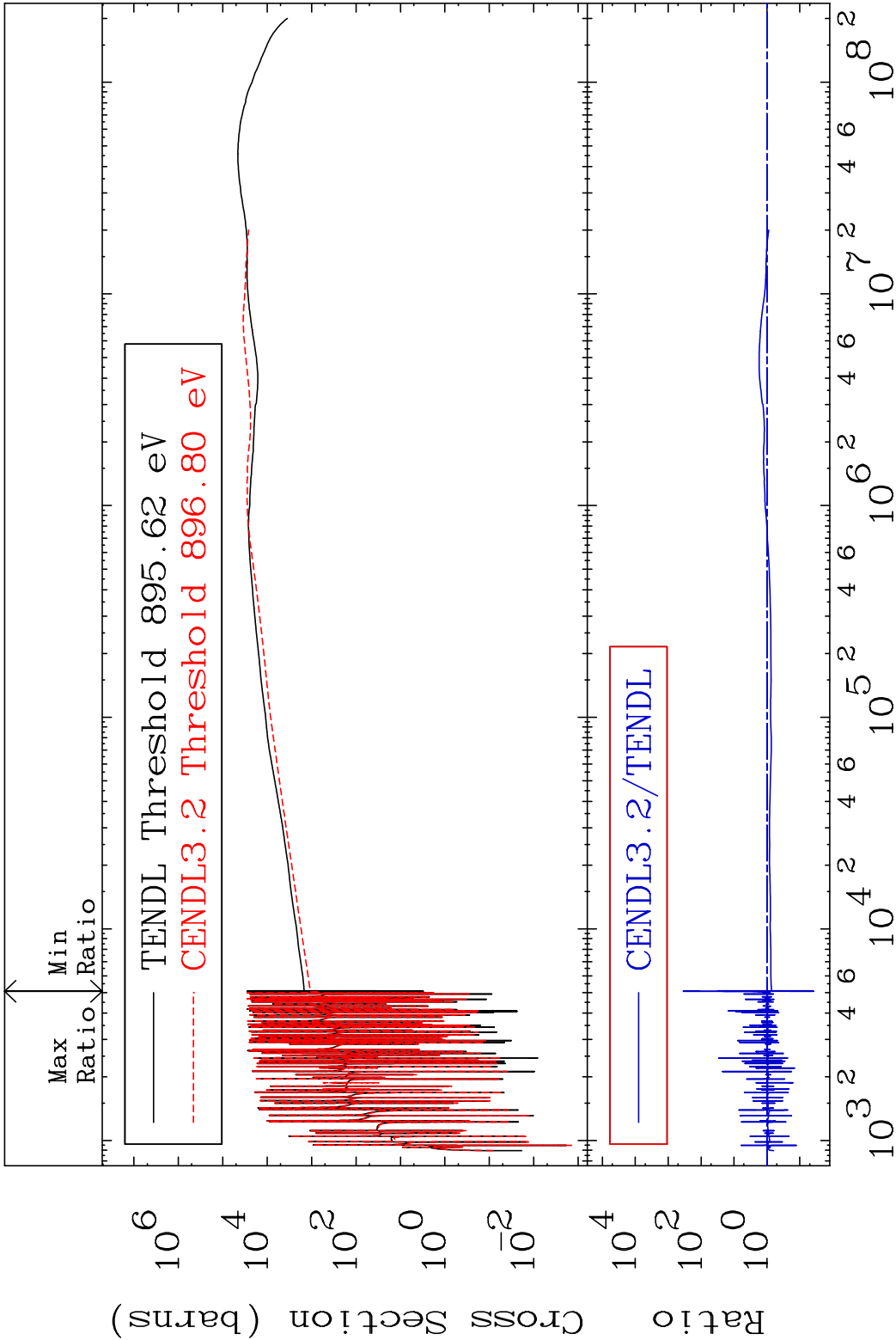
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8

45

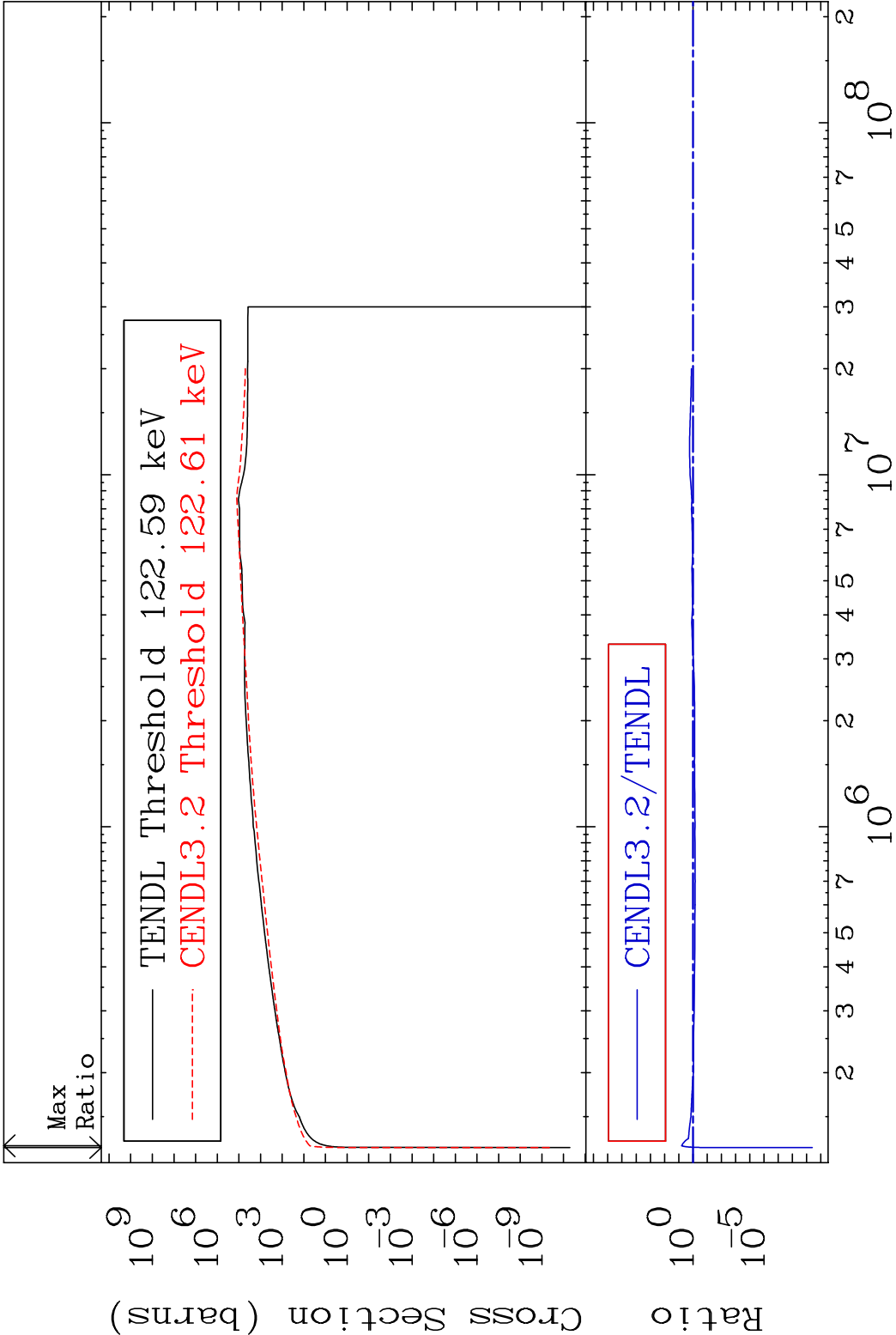
Incident Energy (eV)

62-Sm-152

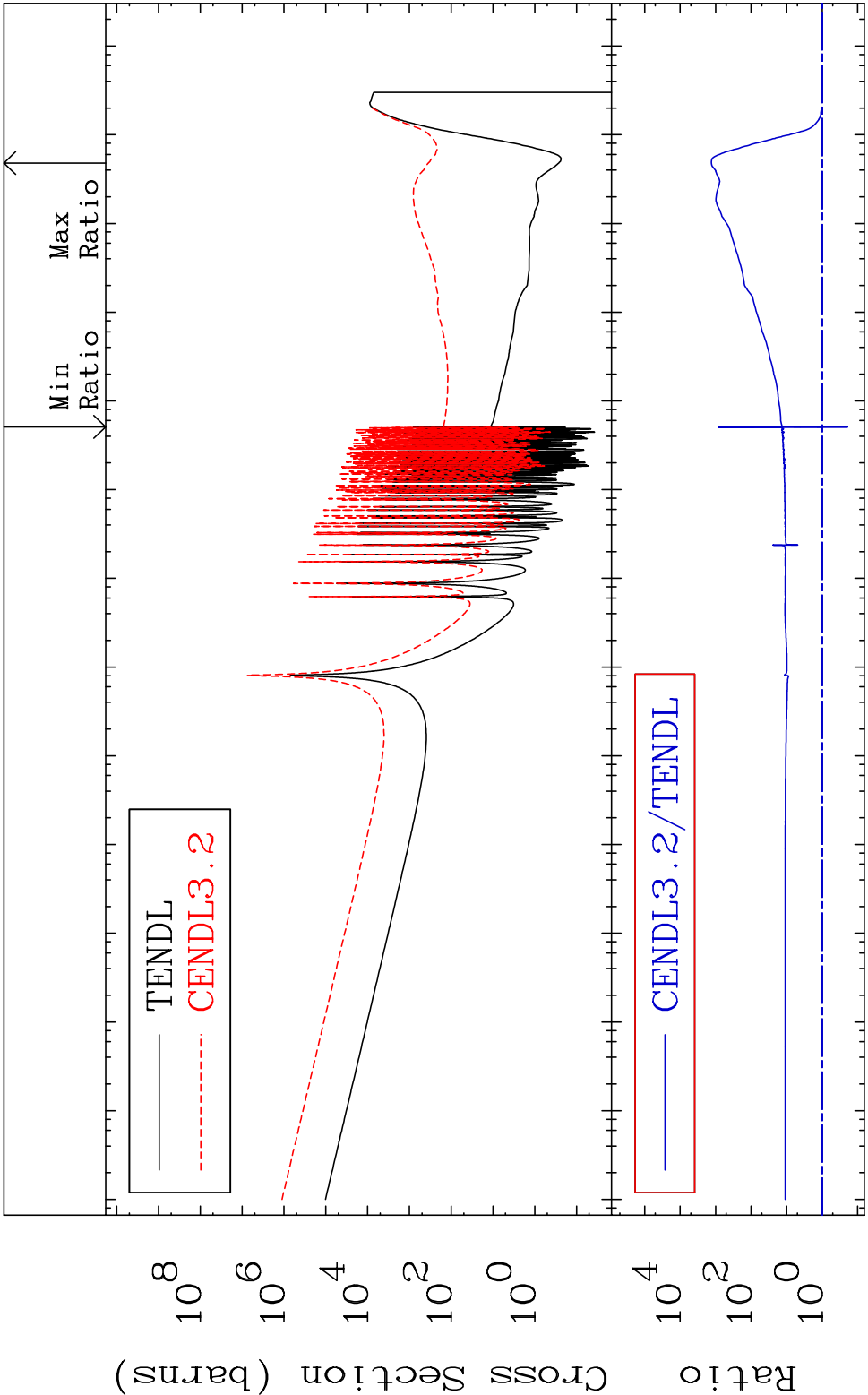
MAT 6249	Dpa elastic (mt2)	62-Sm-152
	Cross Section	-96.26 To 9999. %



46	Incident Energy (eV)	62-Sm-152
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MAT 6249 Dpa disappearance (mt102 -120) 62-Sm-152
Cross Section -81.01 To 9999. %



48 Incident Energy (eV) 62-Sm-152

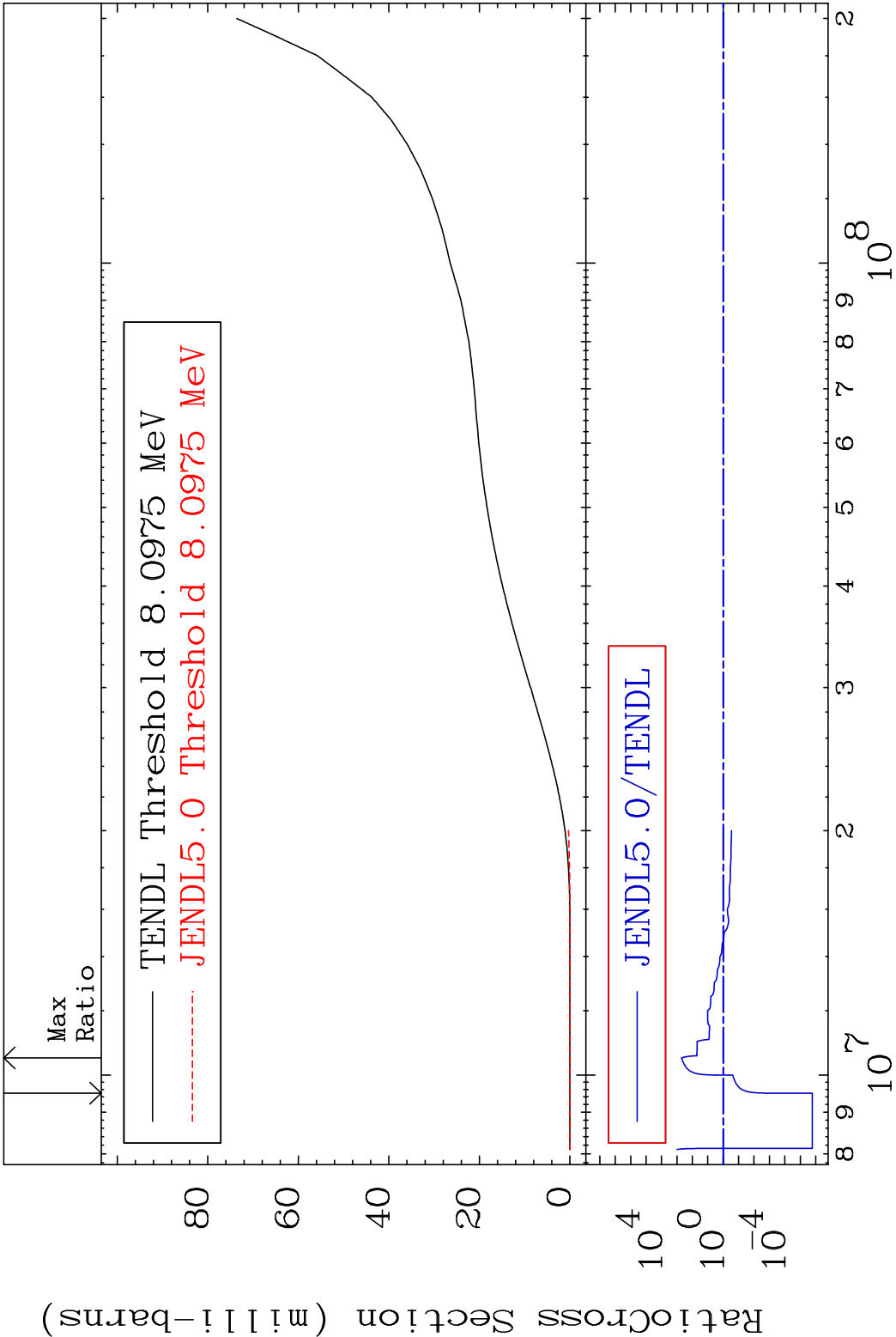
MAT 6249

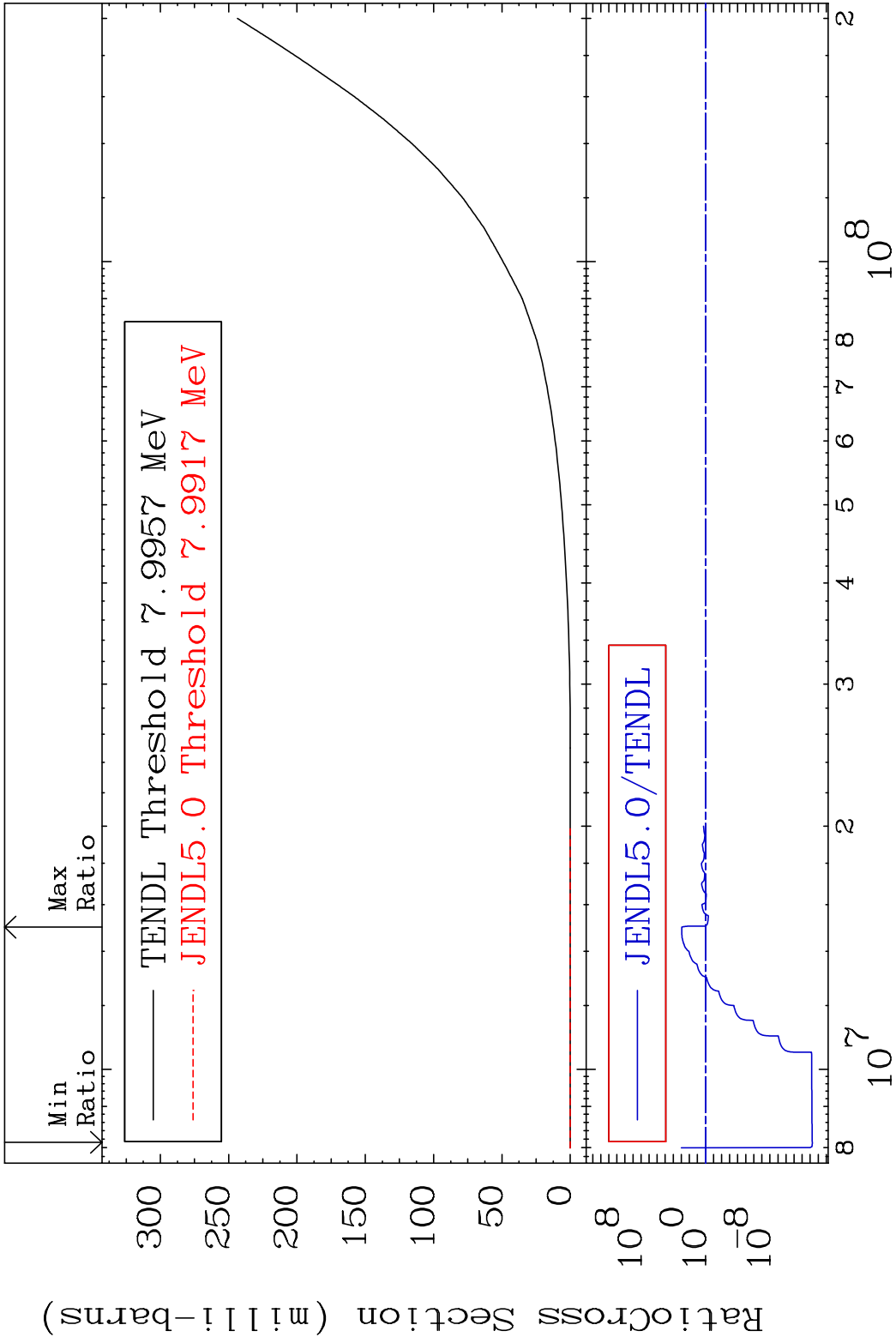
Tritium Production

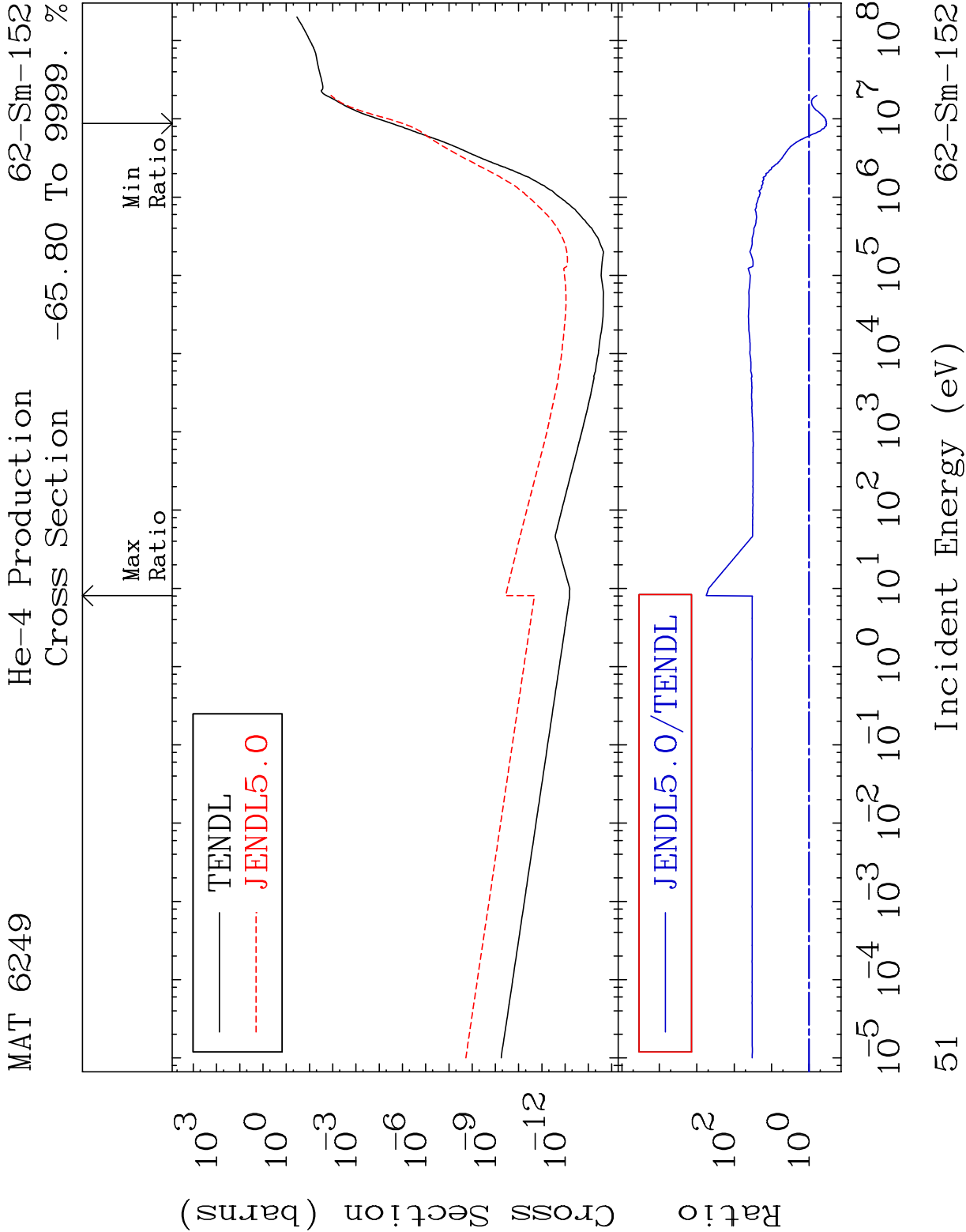
Cross Section

-100.0 To 9999. %

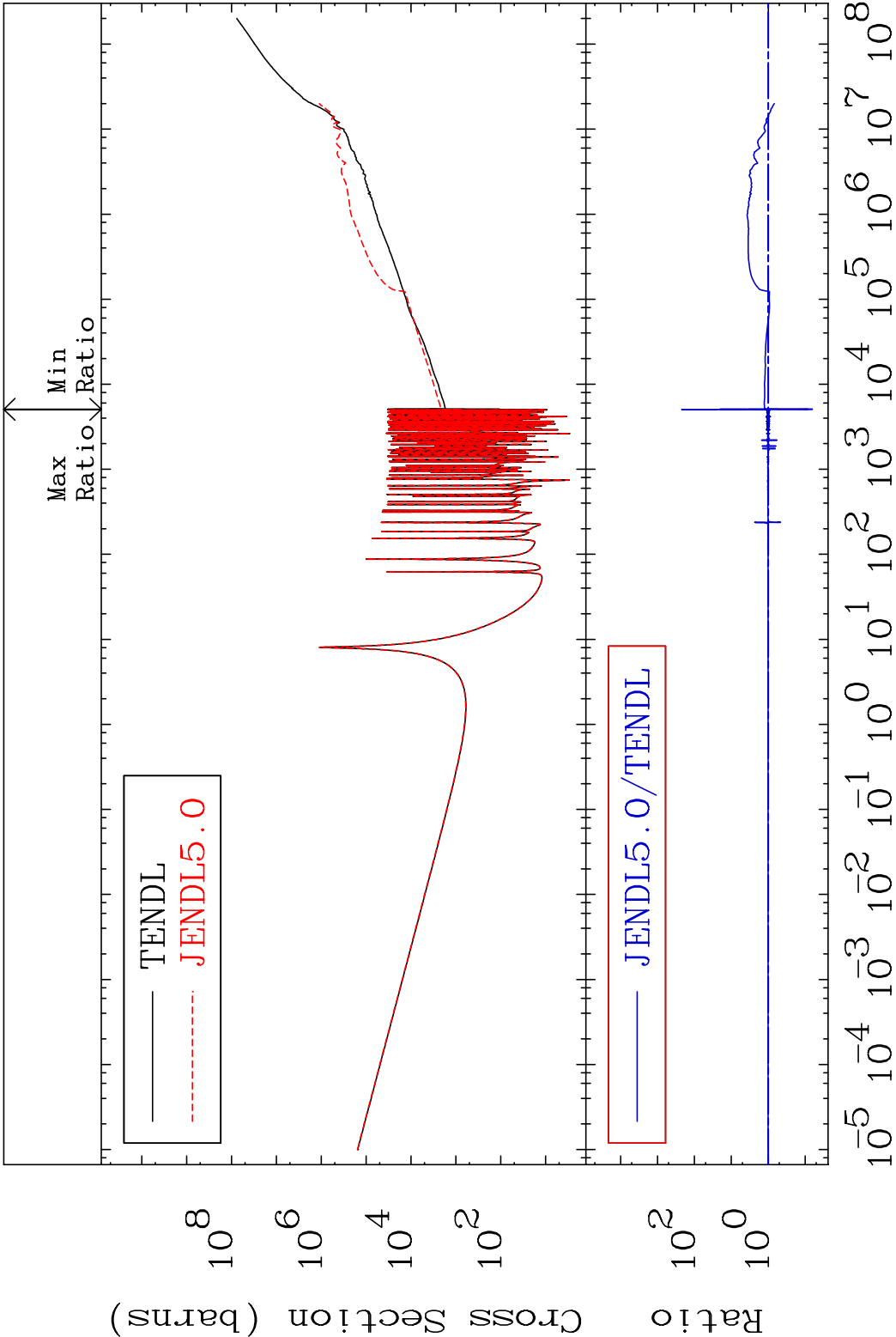
62-Sm-152



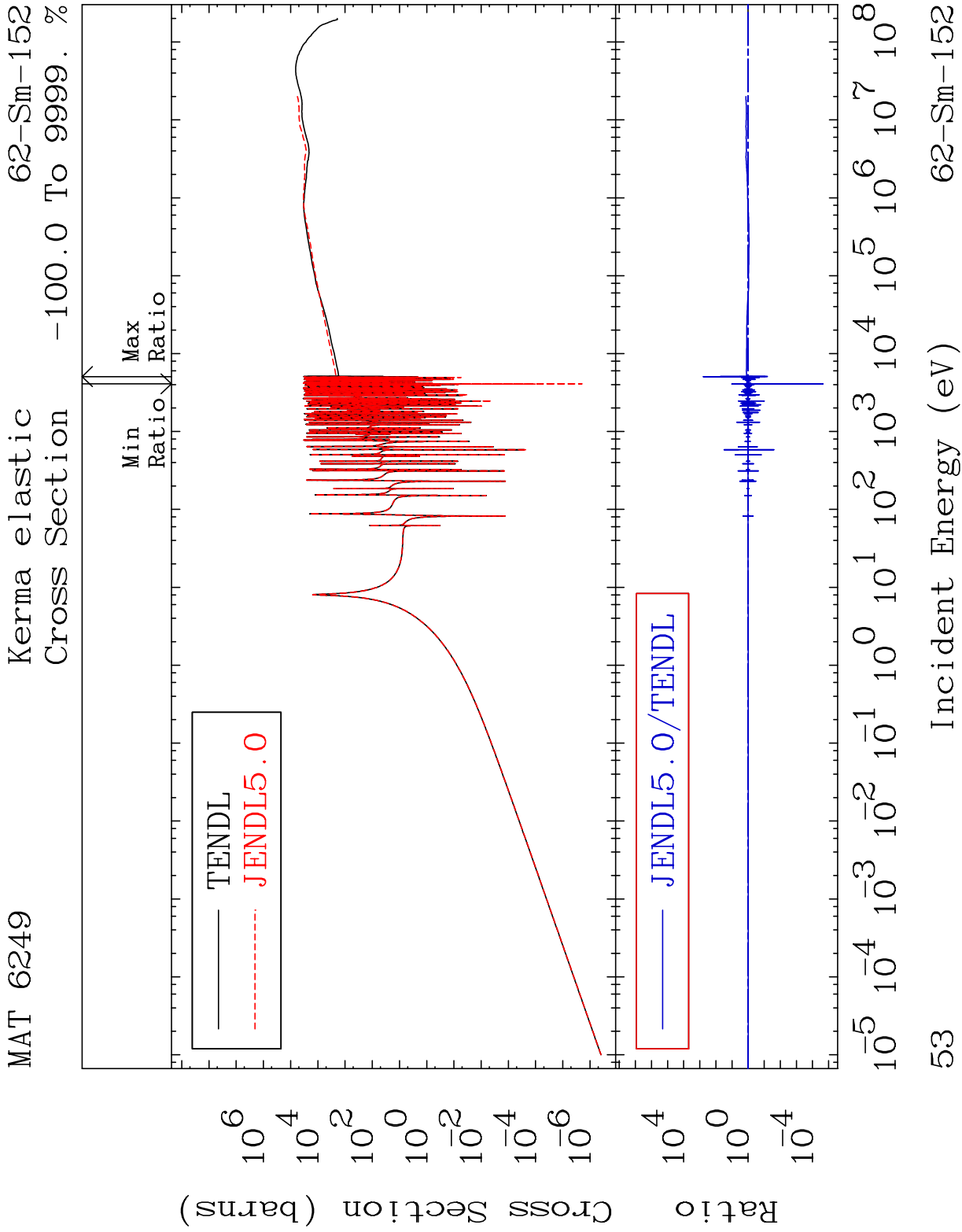


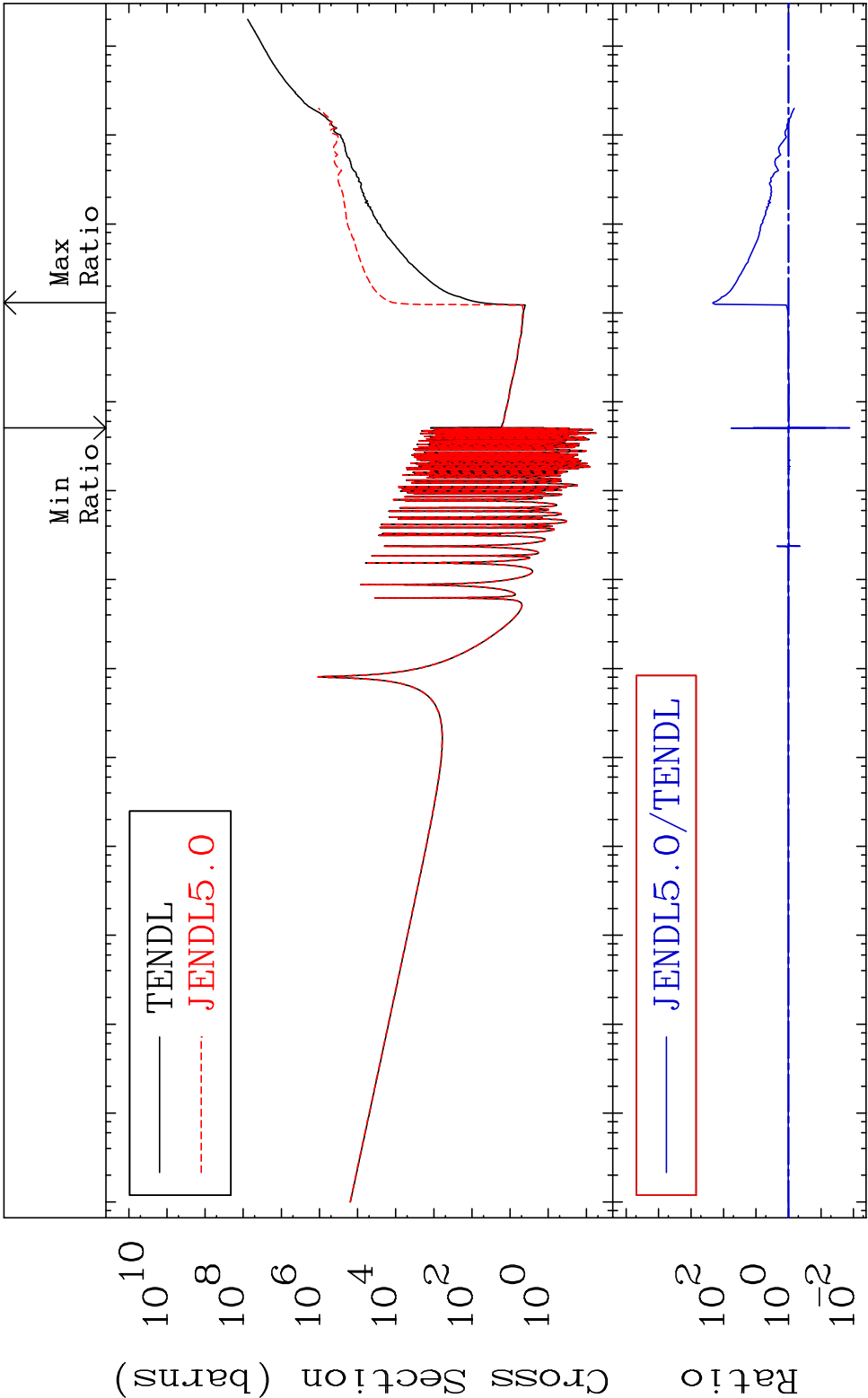


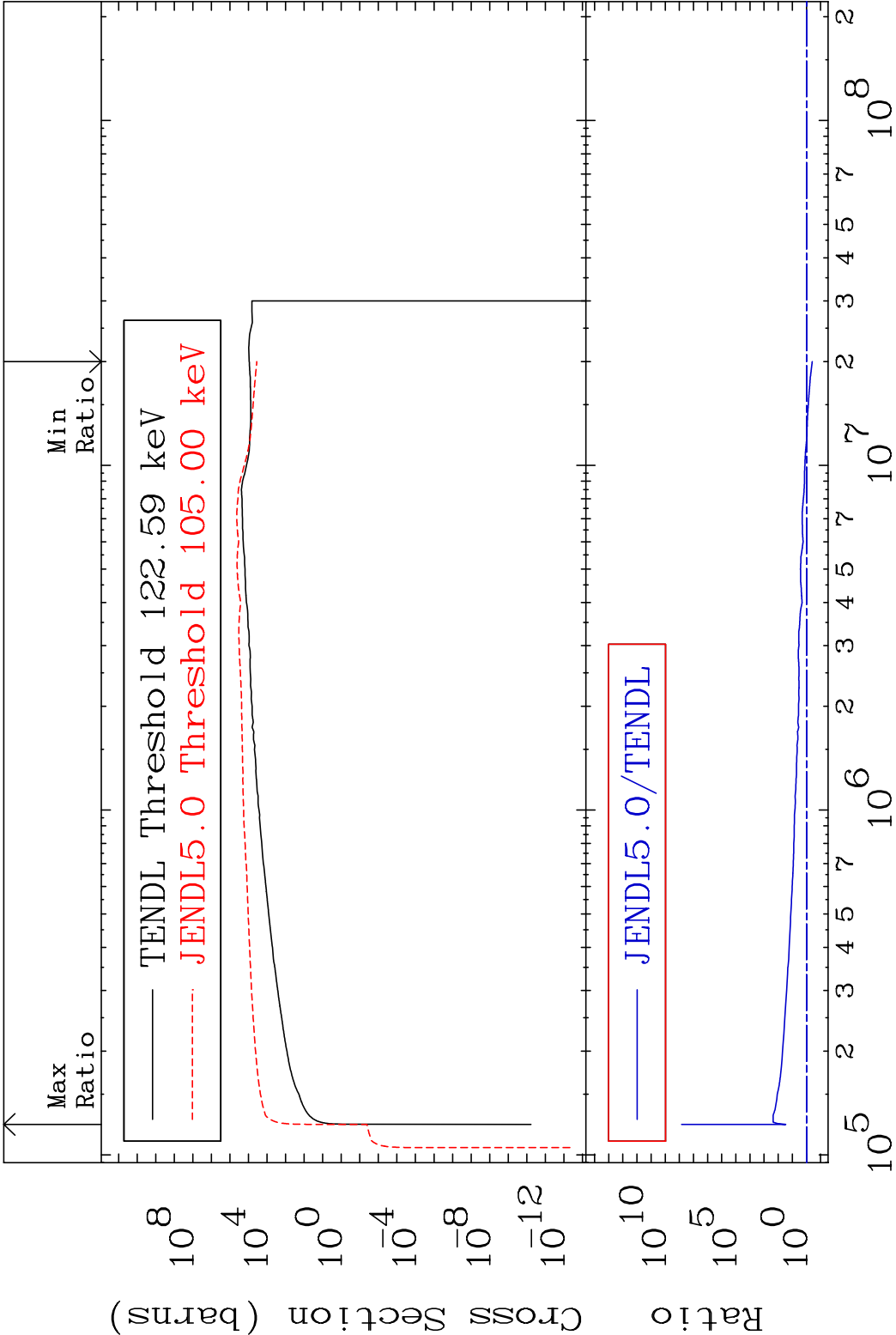
MAT 6249 Kerma total (eV-barns) 62-Sm-152
Cross Section -93.58 To 9999. %



52 Incident Energy (eV) 62-Sm-152

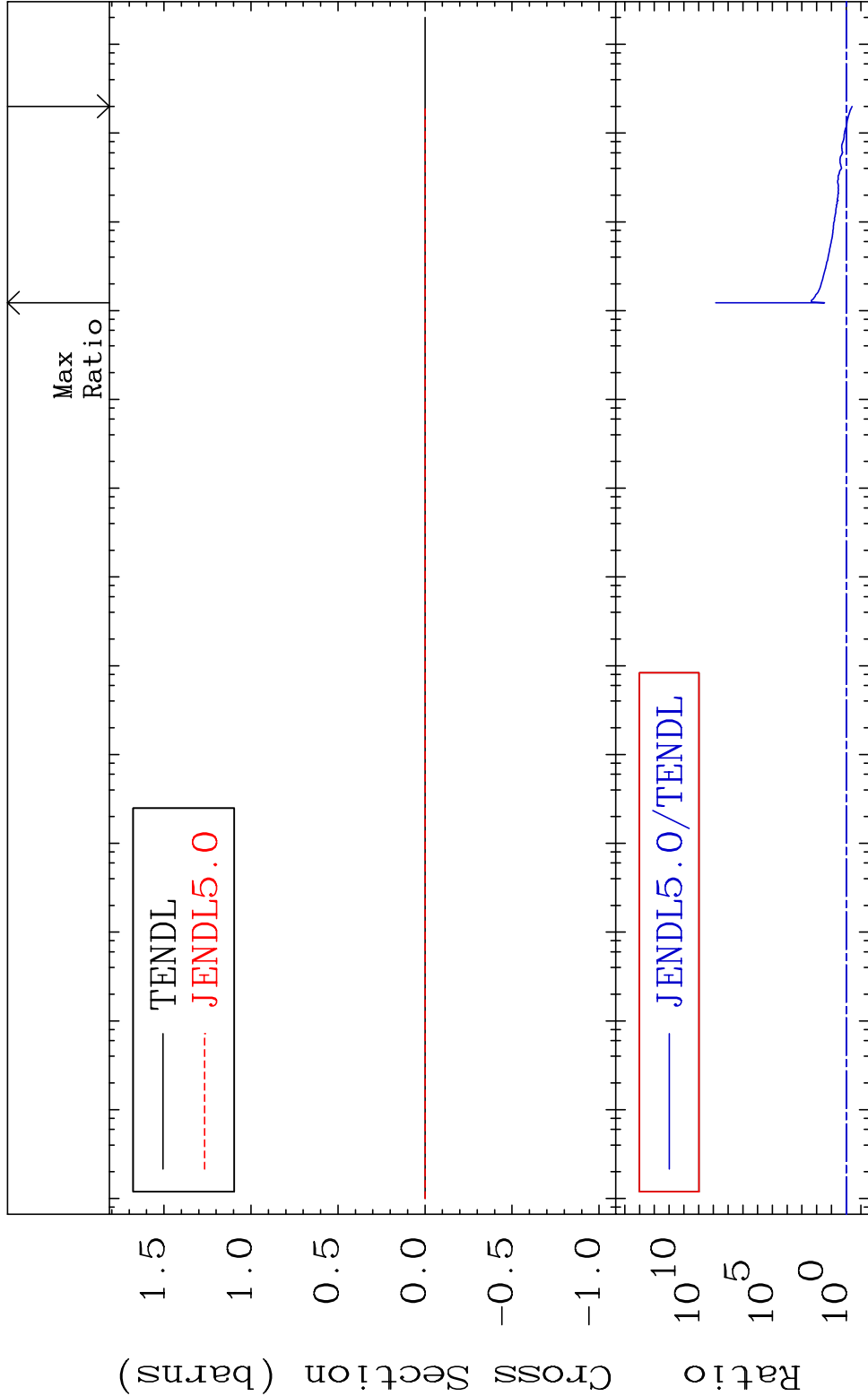






MAT 6249Kerma fission (mt18 or mt19-20-21-38)62-Sm-152

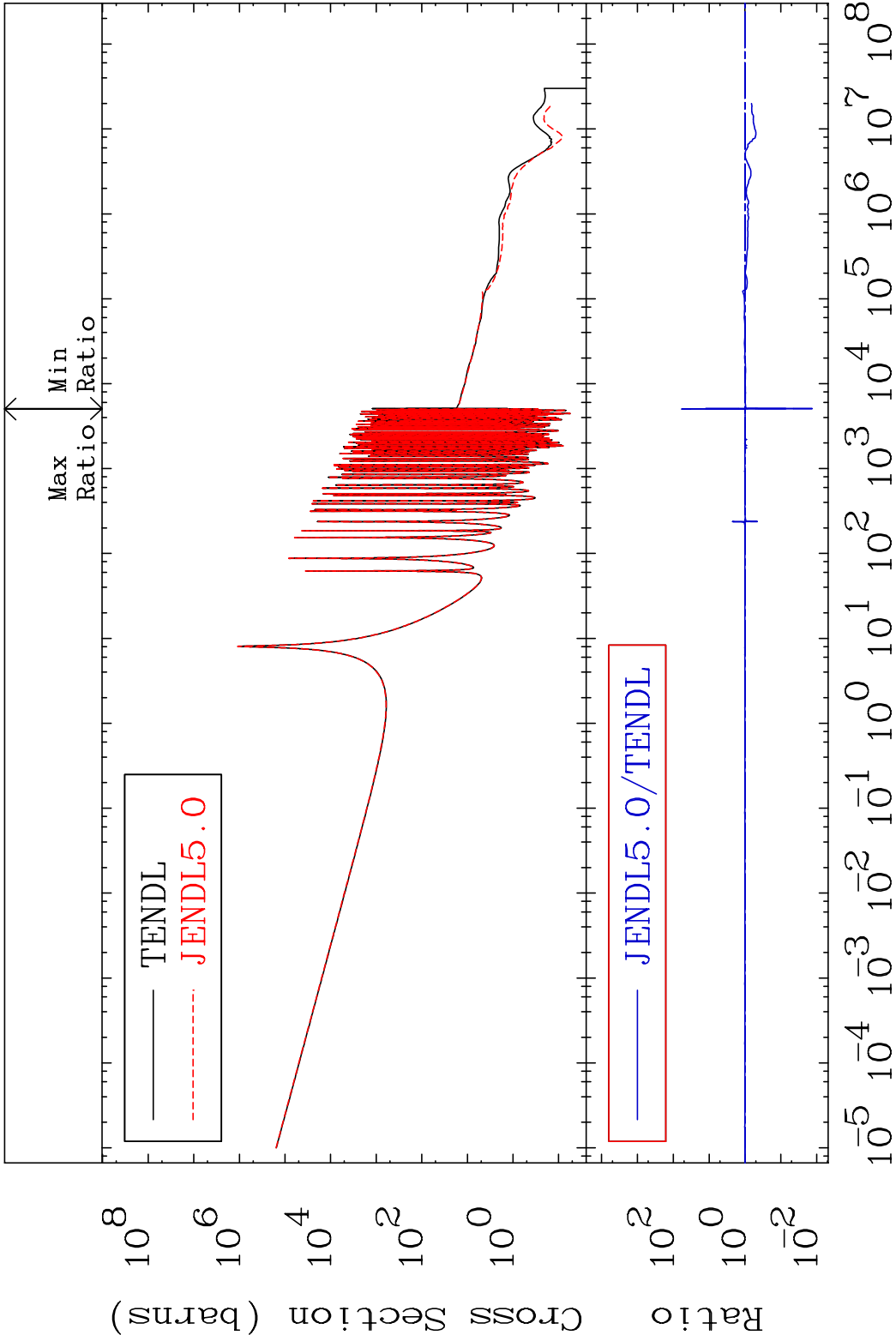
Cross Section -60.89 To 9999. %



Ratio
10¹⁰
10⁵
10⁰

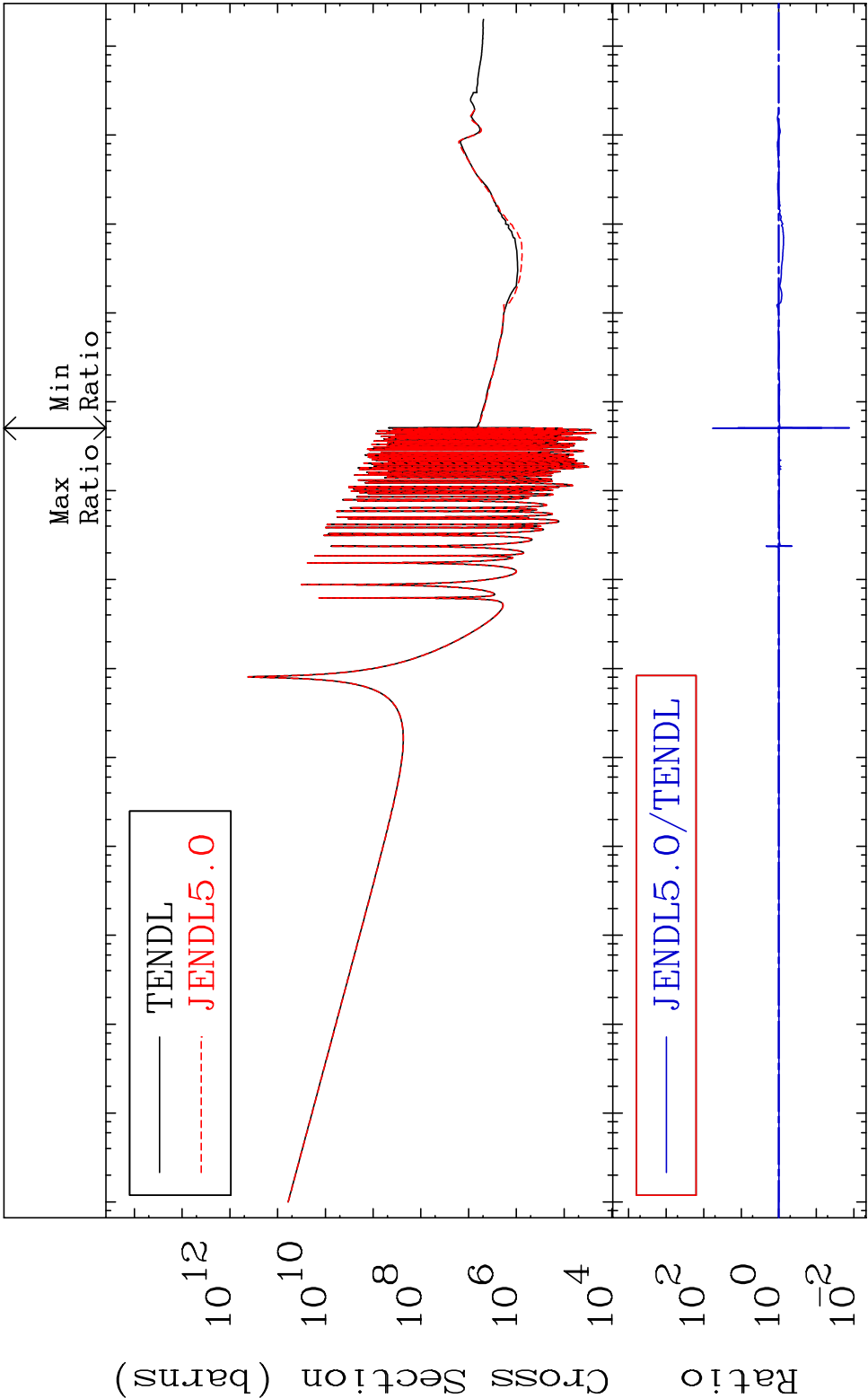
56 Incident Energy (eV) 62-Sm-152

MAT 6249 Kerma capture (mt102) 62-Sm-152
Cross Section -98.67 To 5712. %

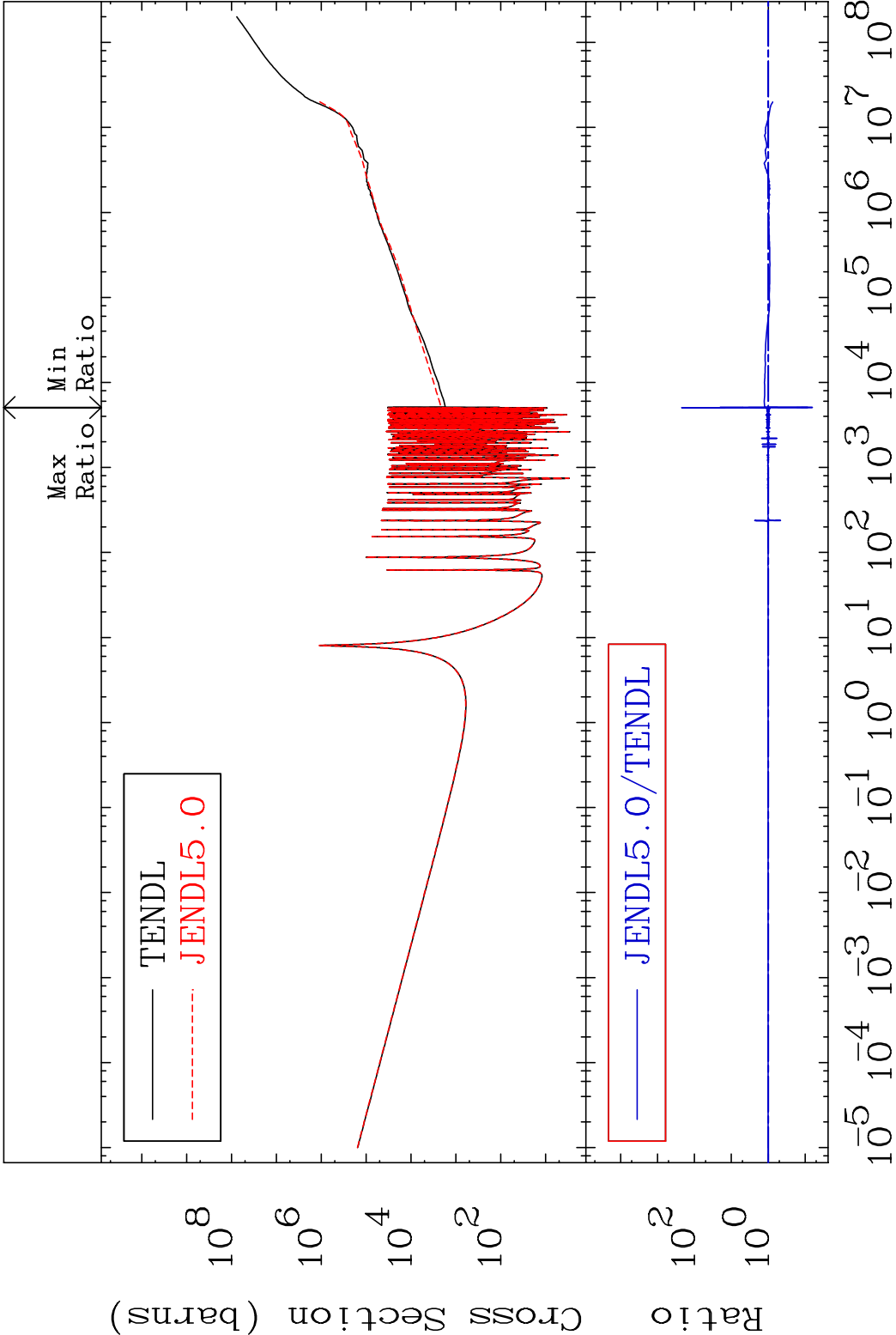


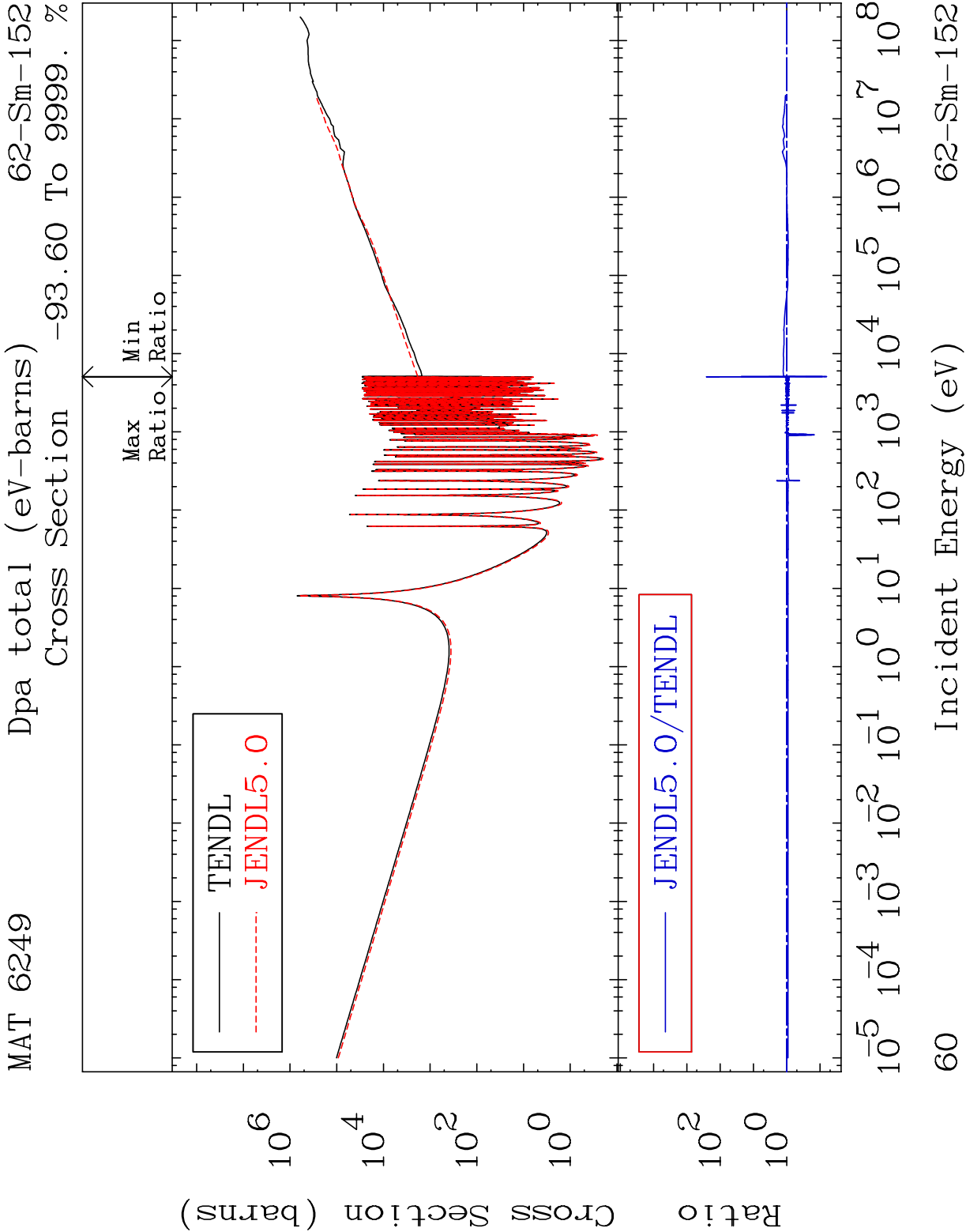
57 Incident Energy (eV) 62-Sm-152

MAT 6249 Total photon (eV-barns) 62-Sm-152
 Cross Section -98.69 To 5628. %

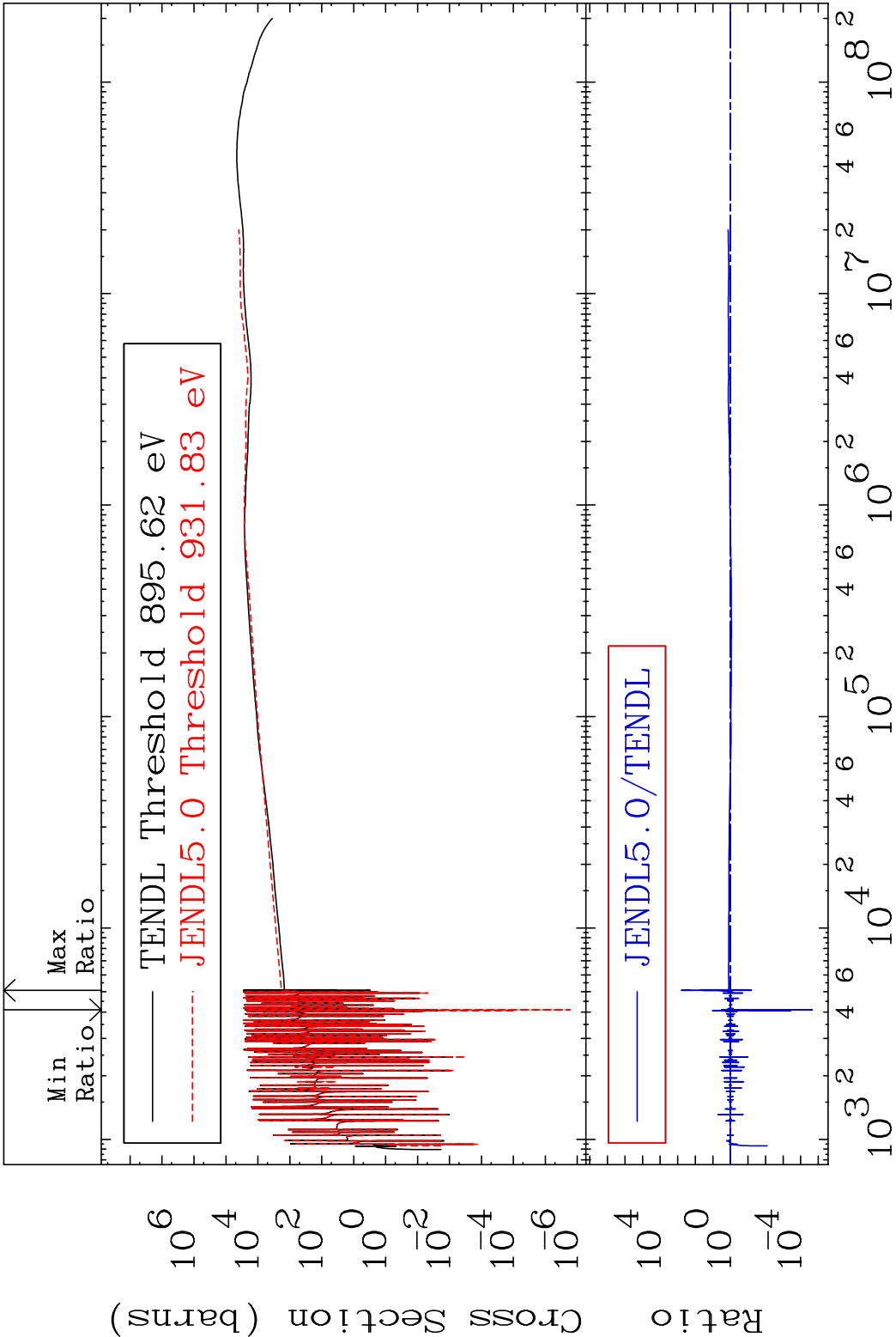


MAT 6249 Total kinematic kerma (high limit) 62-Sm-152
Cross Section -93.58 To 9999. %



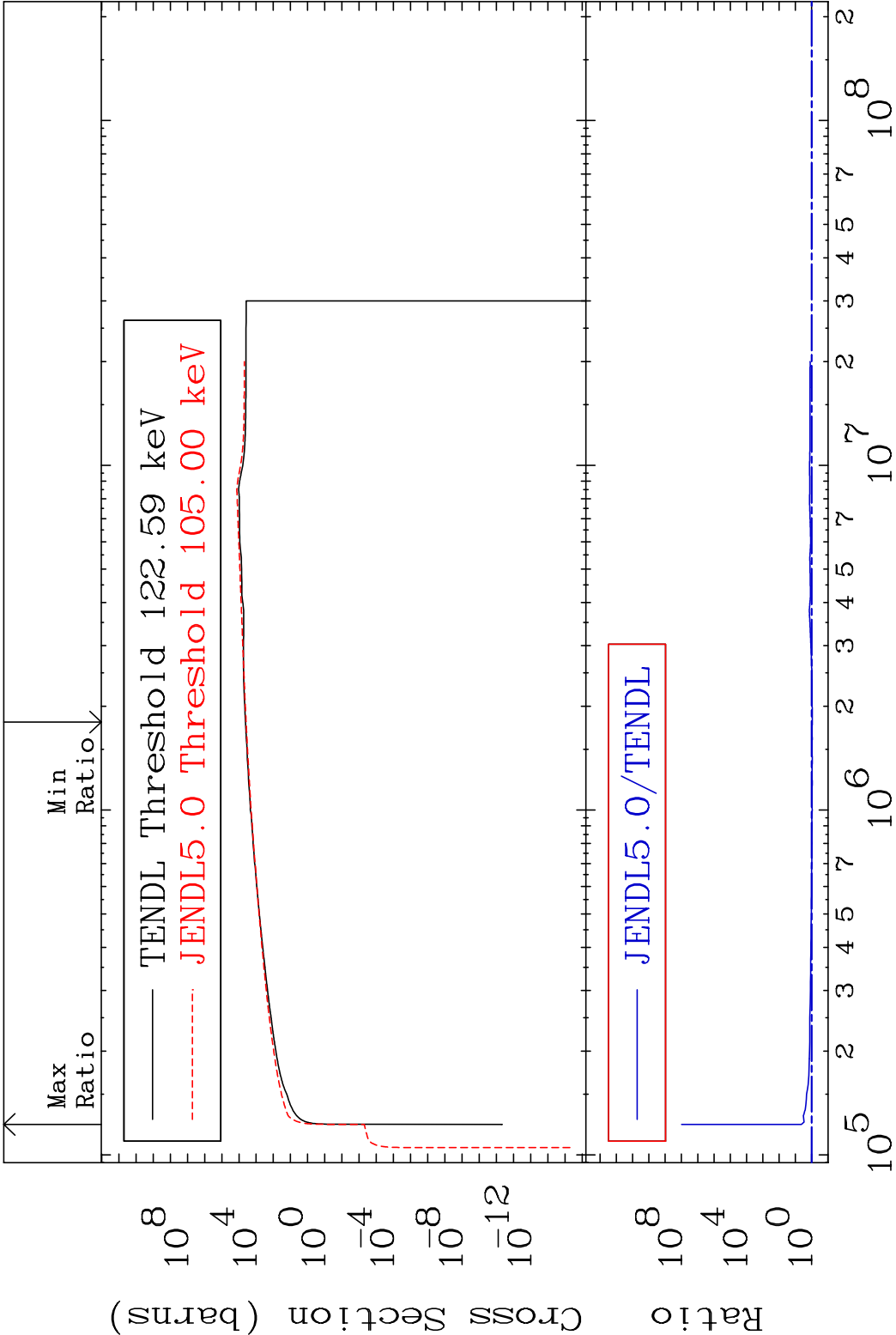


MAT 6249 Dpa elastic (mt2) 62-Sm-152
 Cross Section -100.0 To 9999. %



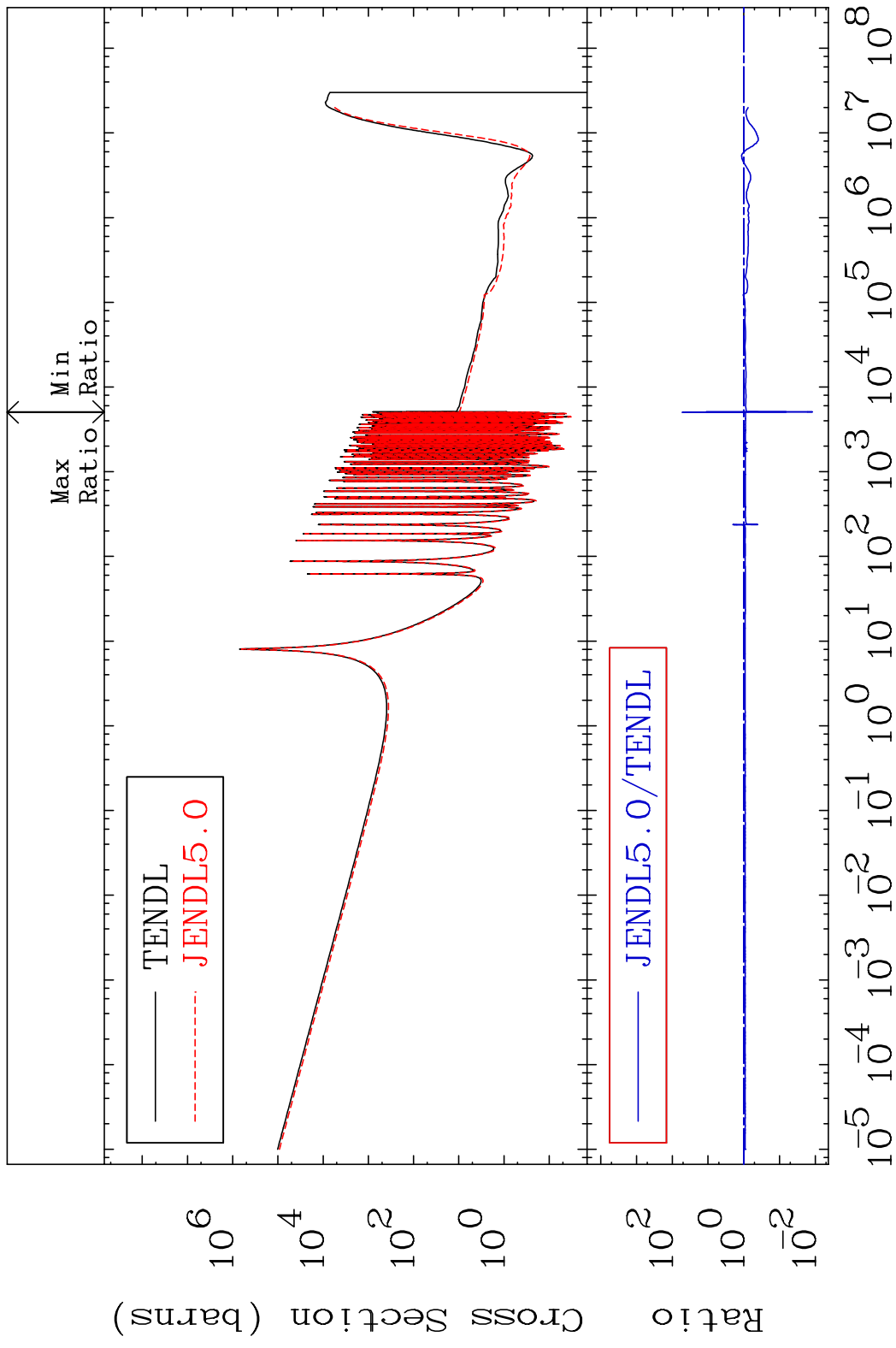
61 Incident Energy (eV) 62-Sm-152

MAT 6249 Dpa inelastic (mt51-91) 62-Sm-152
Cross Section -9.078 To 9999. %



62 Incident Energy (eV) 62-Sm-152

MAT 6249	Dpa disappearance (mt102 -120)	62-Sm-152
	Cross Section	-98.81 To 5129. %



63	Incident Energy (eV)	62-Sm-152
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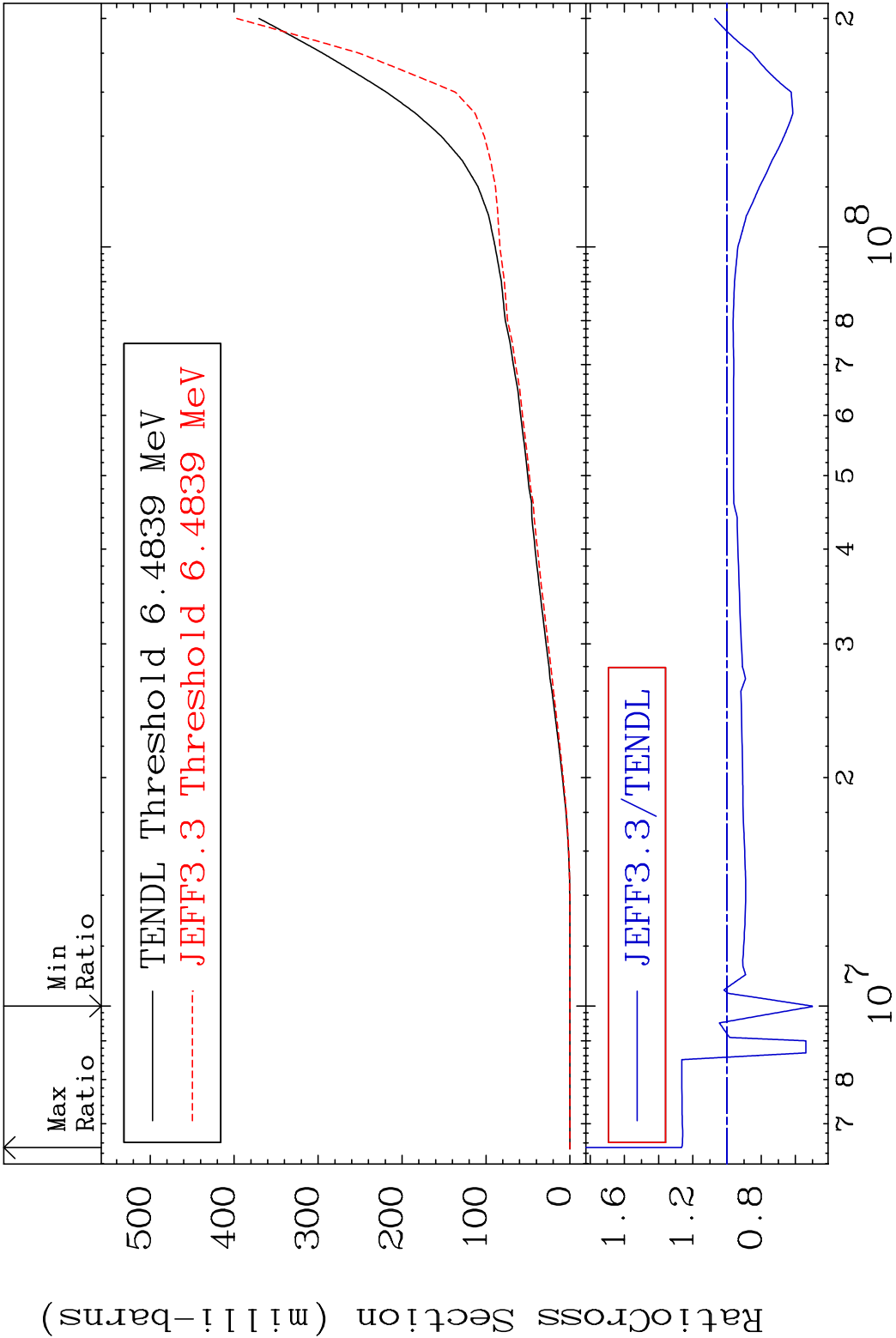
MAT 6249

Deuterium Production

62-Sm-152

Cross Section

-49.85 To 26.57 %



64

Incident Energy (eV)

62-Sm-152

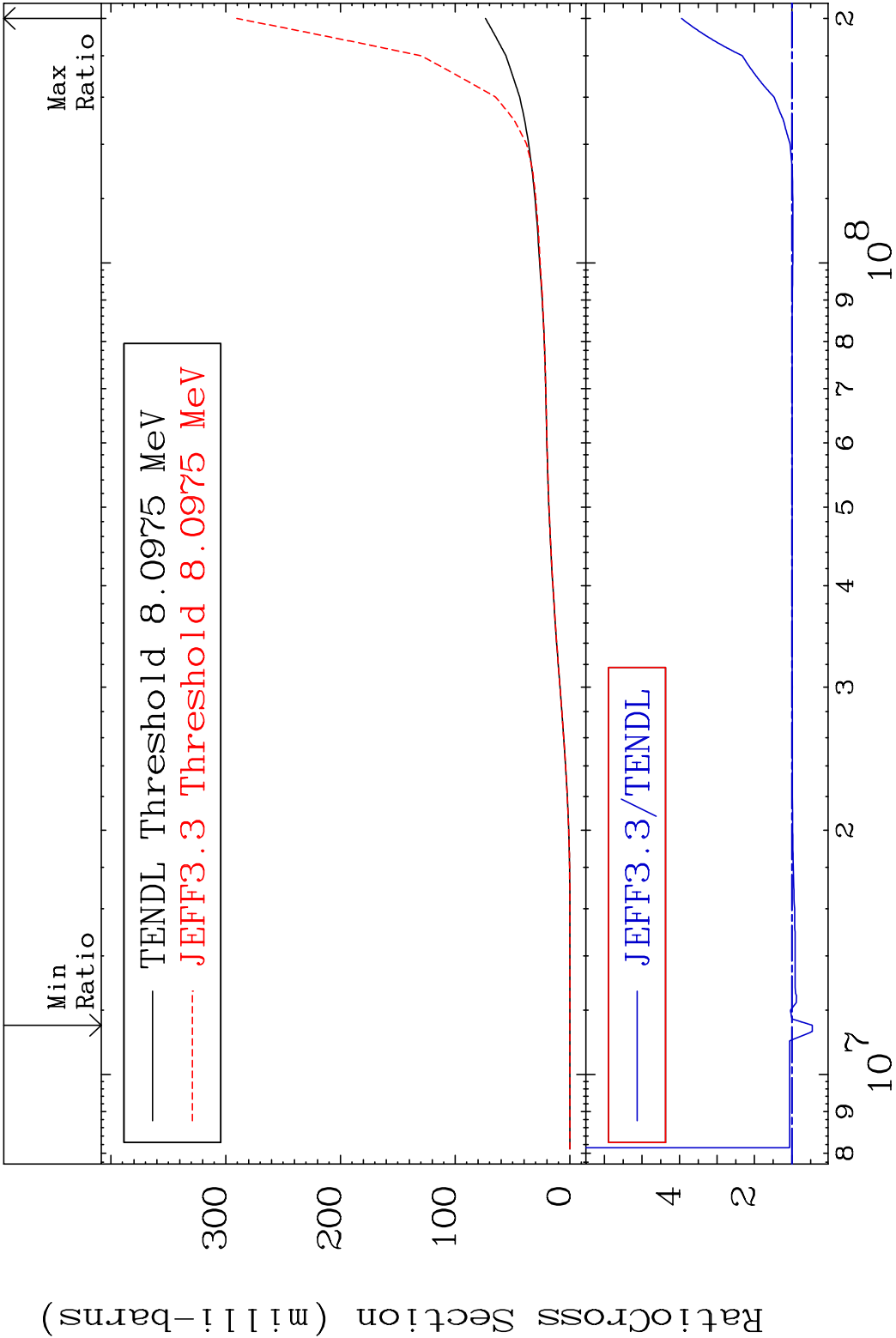
MAT 6249

Tritium Production

Cross Section

62-Sm-152

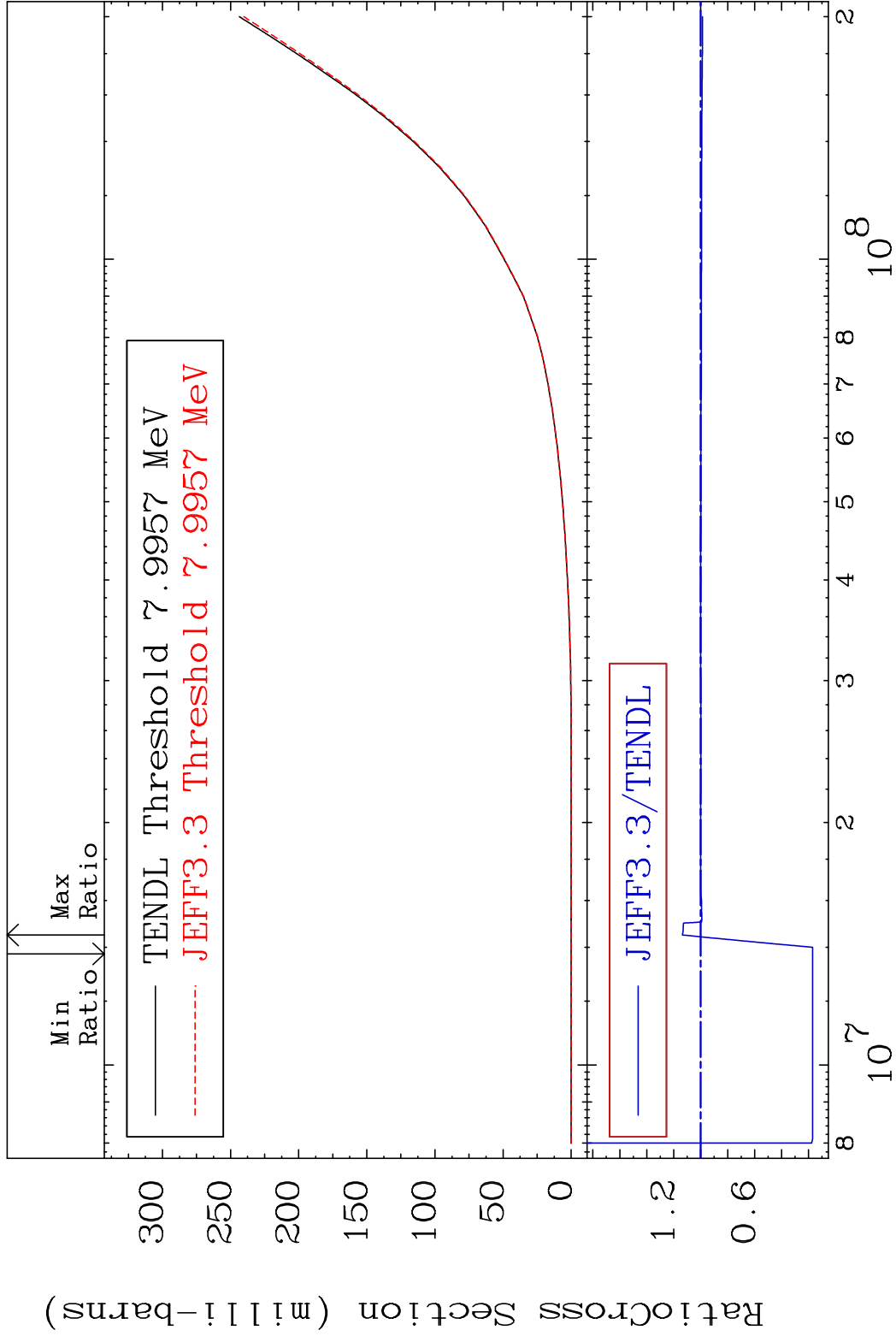
-54.03 To 294.5 %

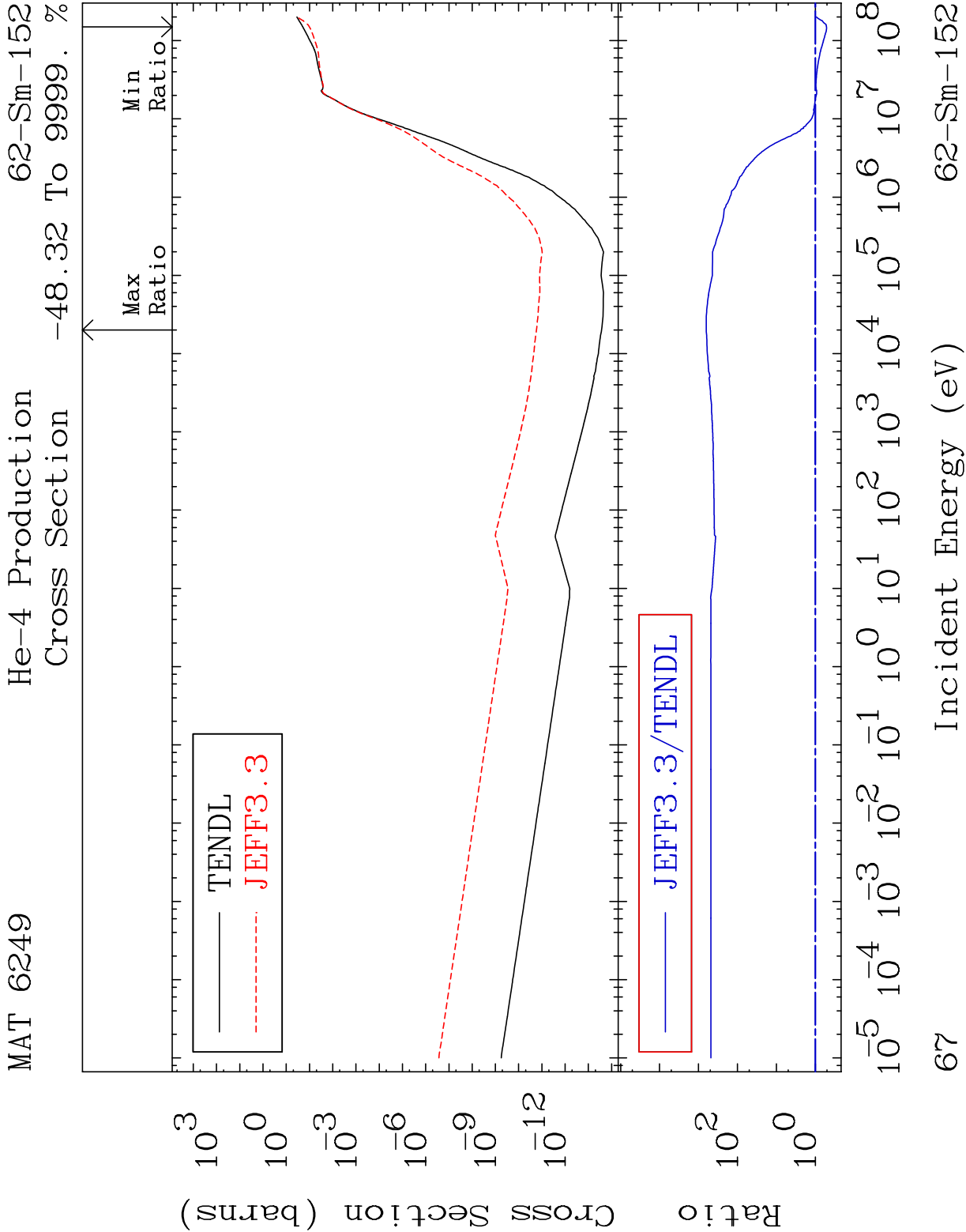


65

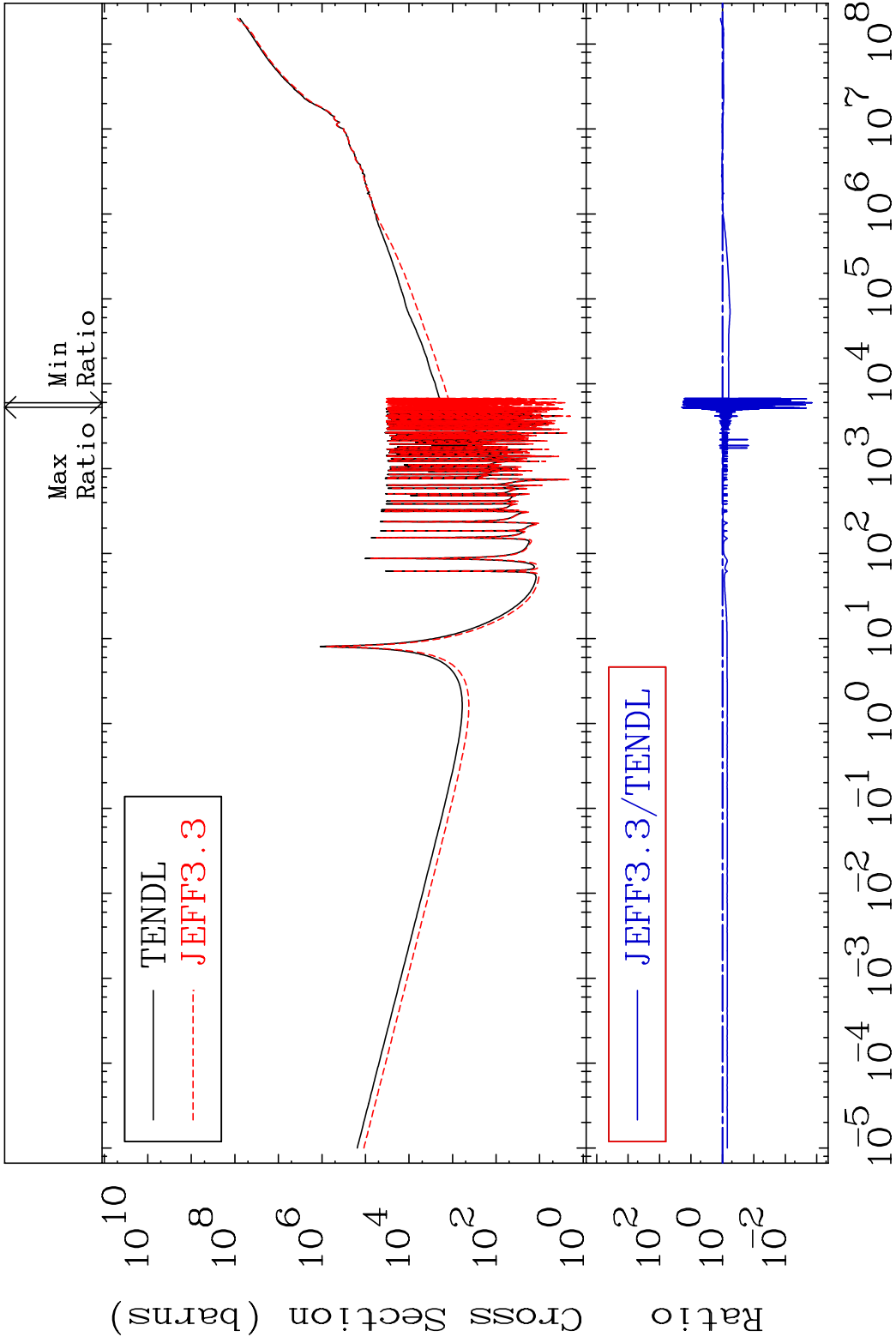
Incident Energy (eV)

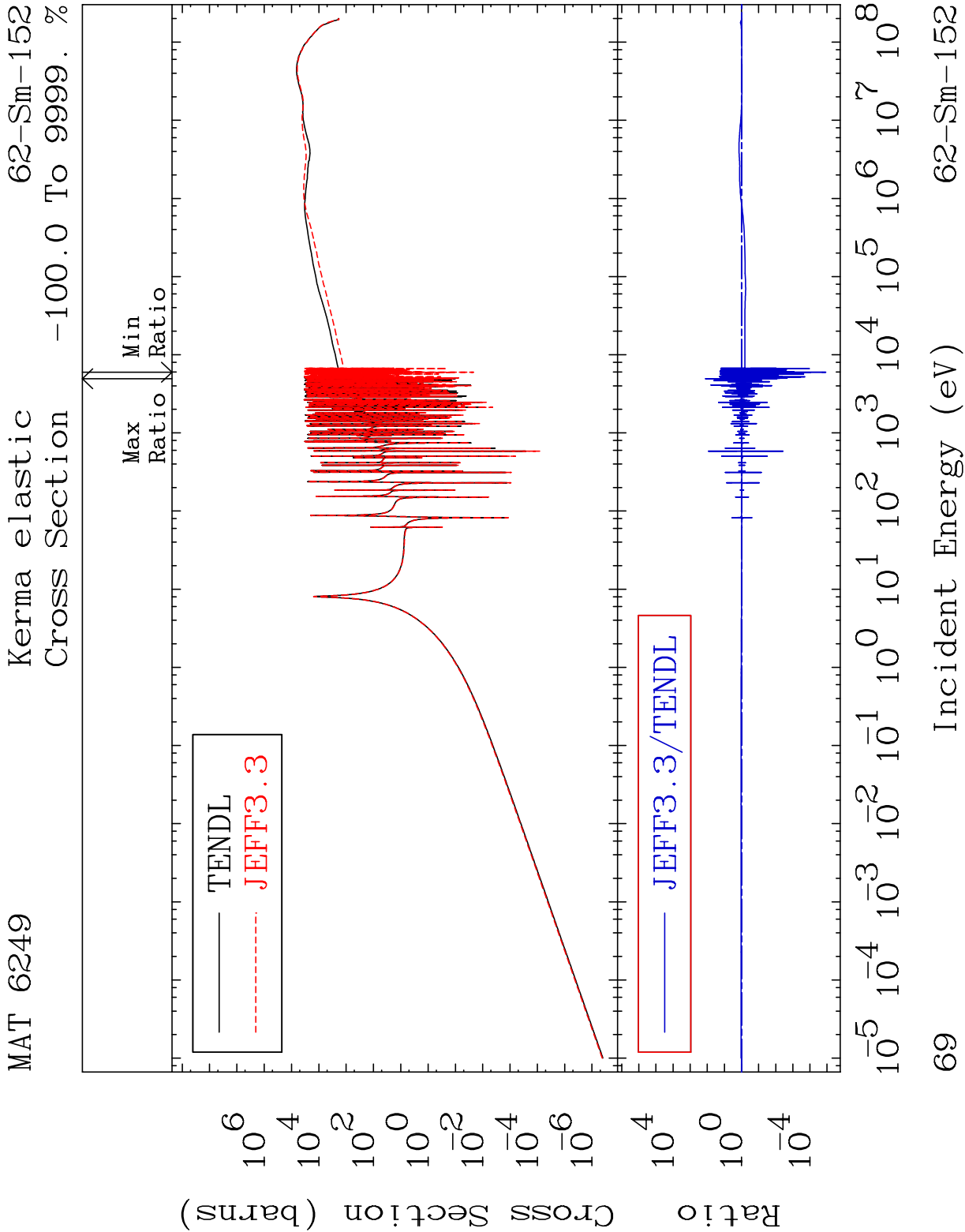
62-Sm-152





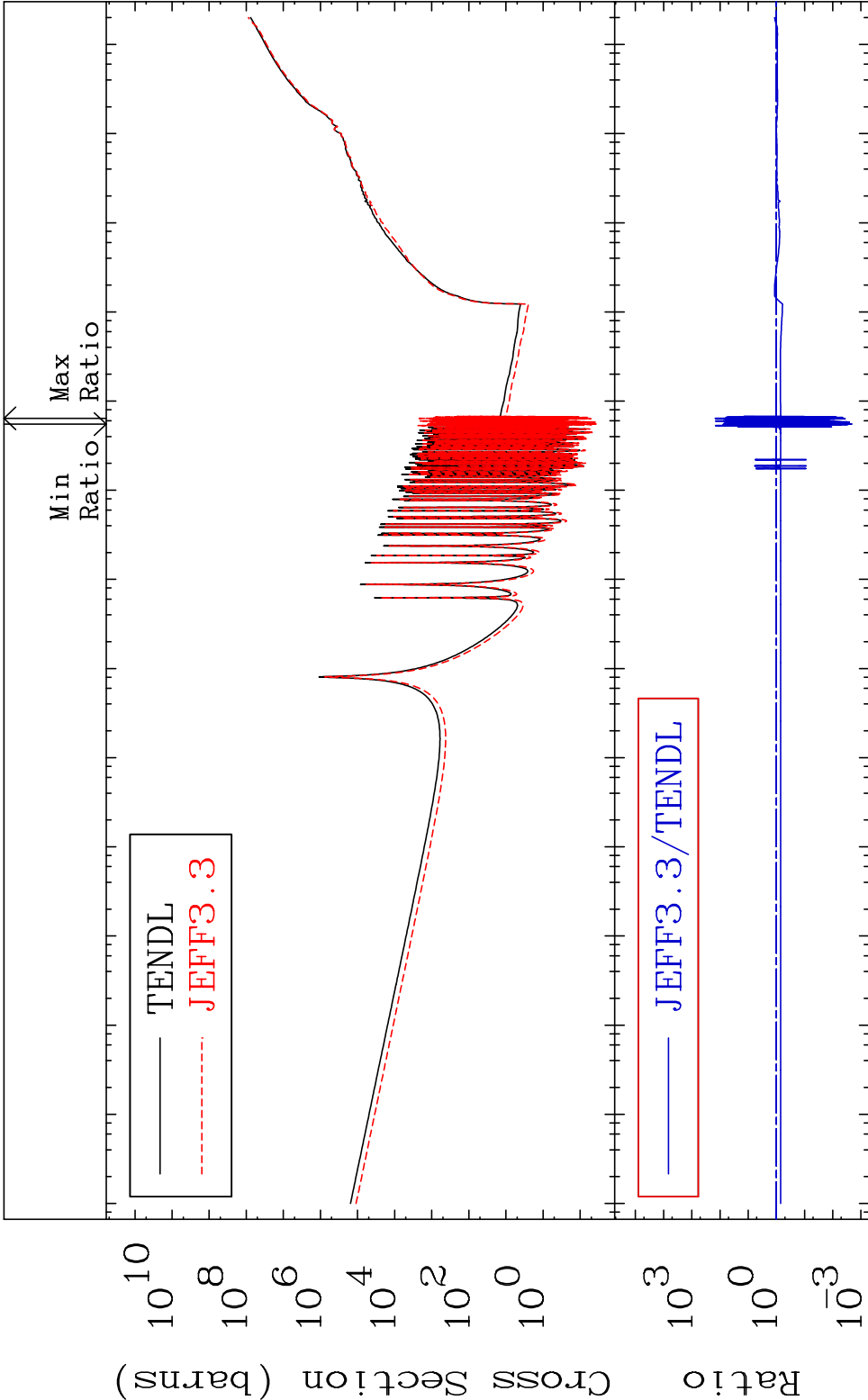
MAT 6249 Kerma total (eV-barns) 62-Sm-152
Cross Section -99.86 To 1865. %





MAT 6249 Kerma non-elastic (all but mt2) 62-Sm-152

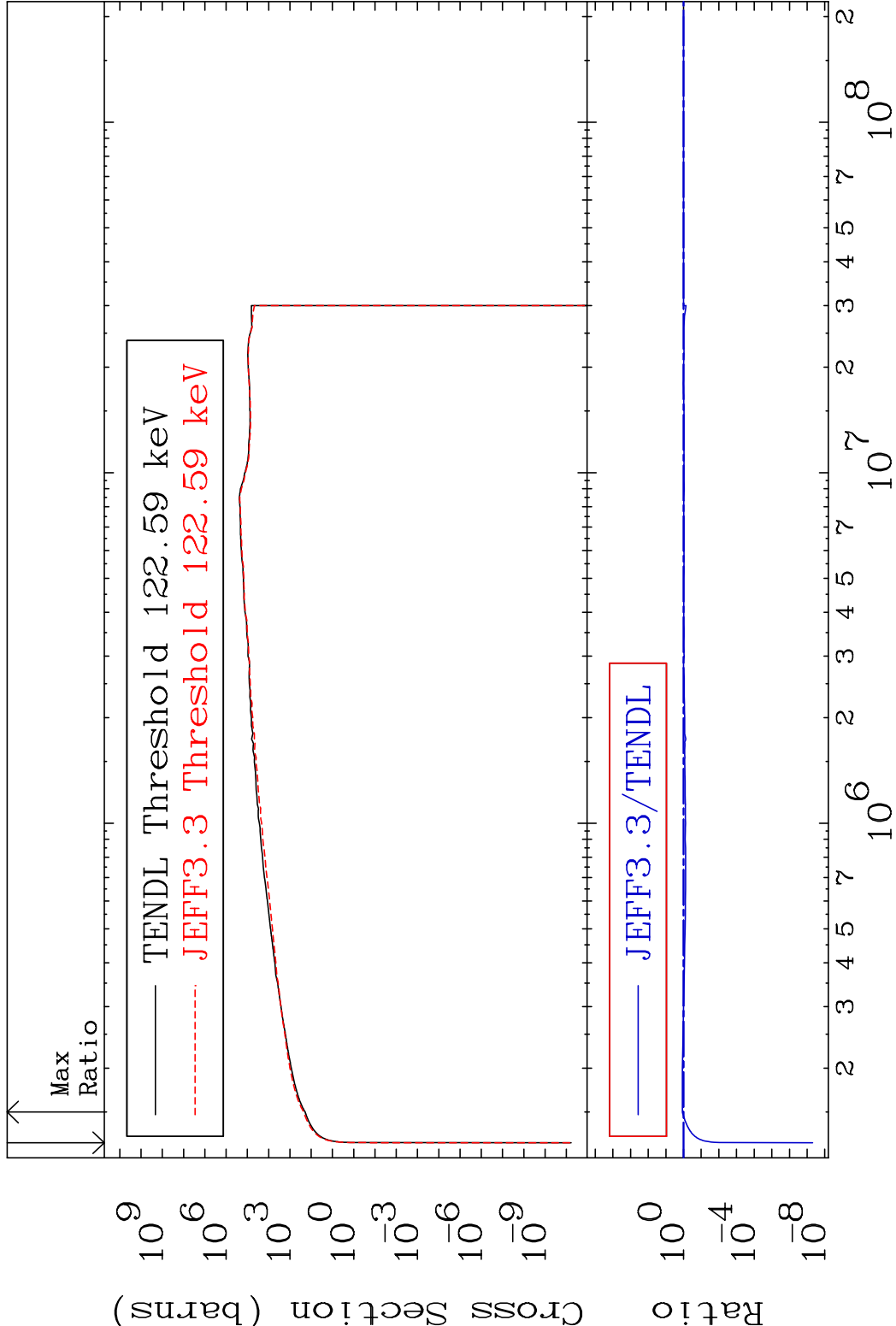
Cross Section -99.79 To 9999. %



70

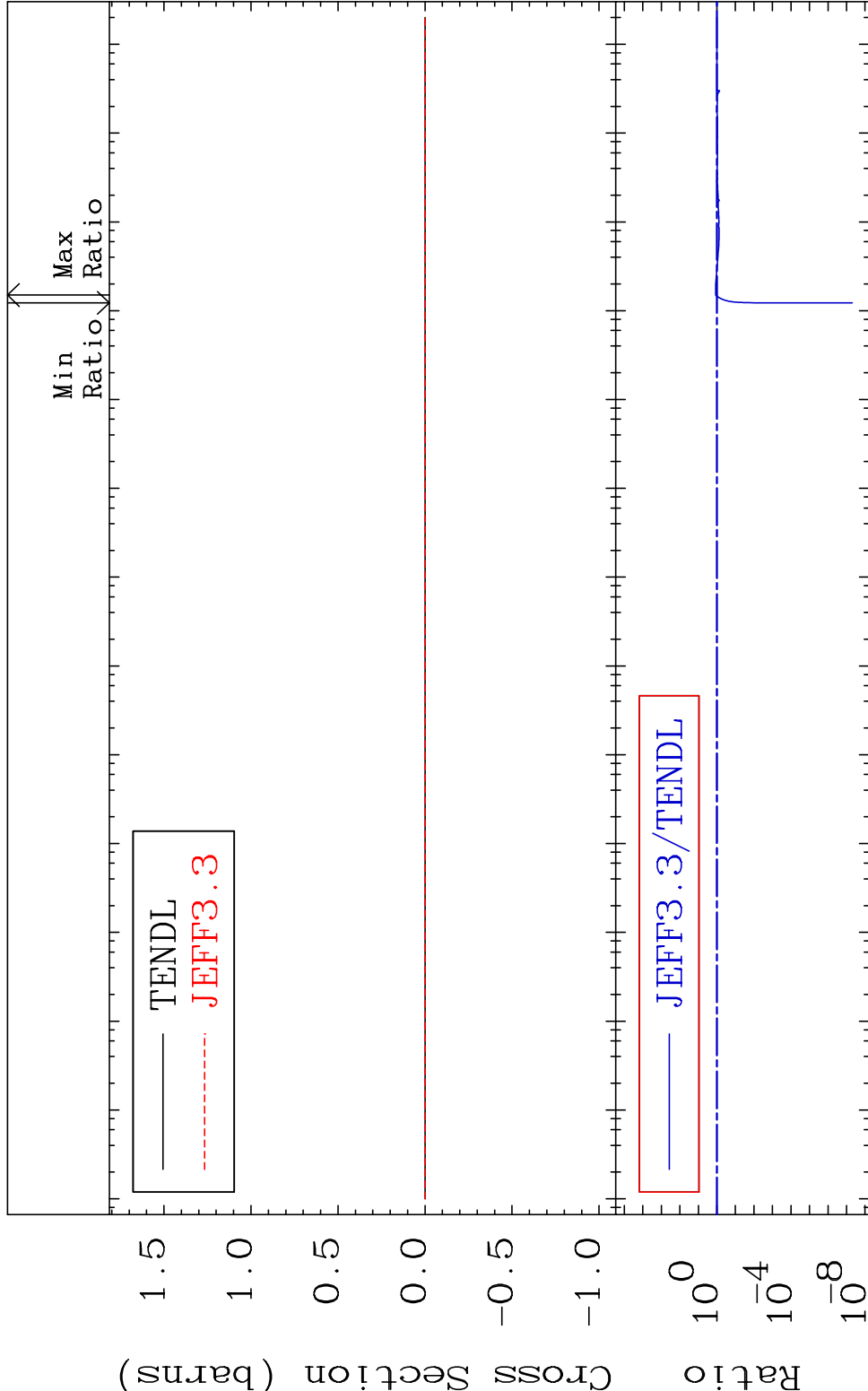
Incident Energy (eV)

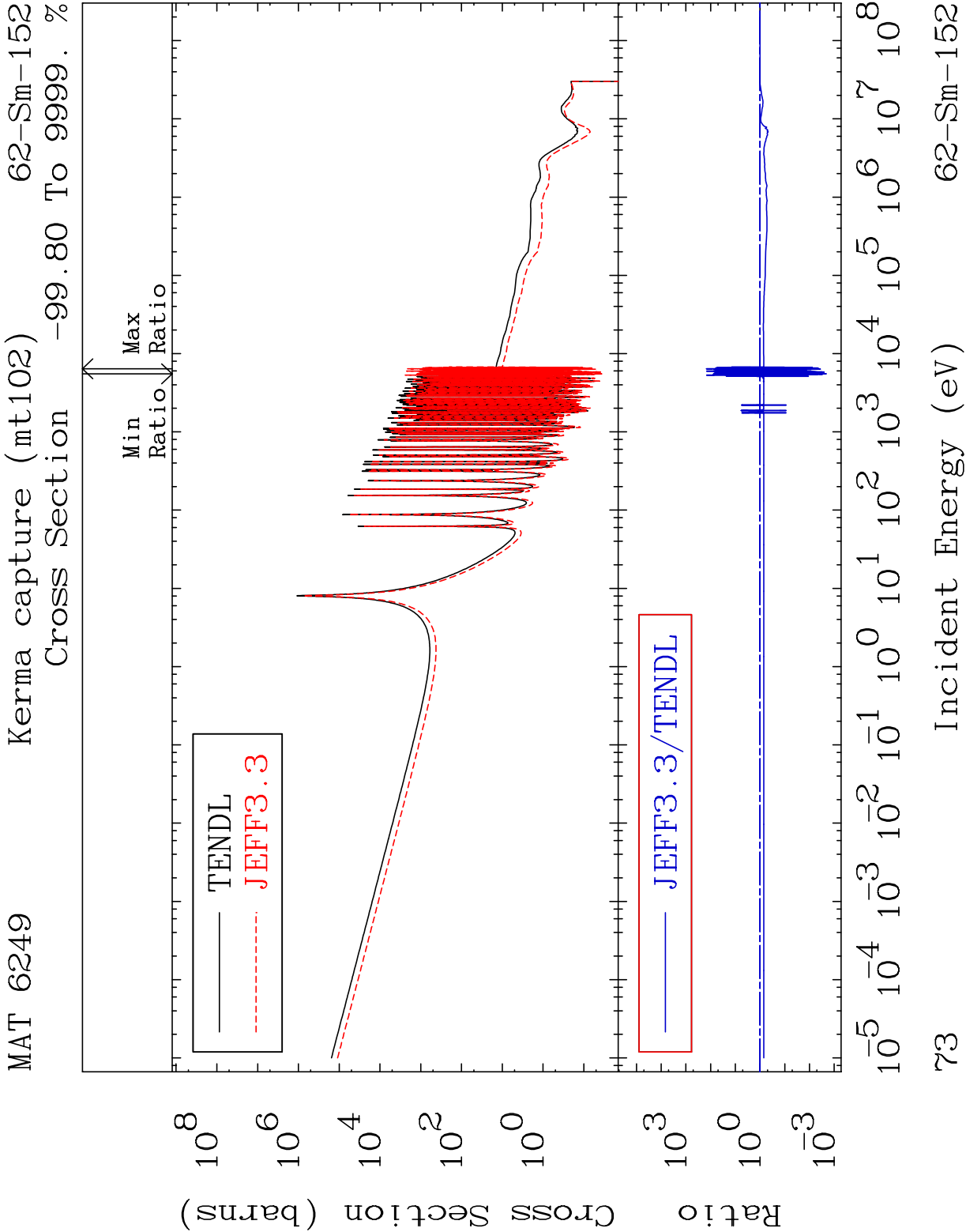
62-Sm-152

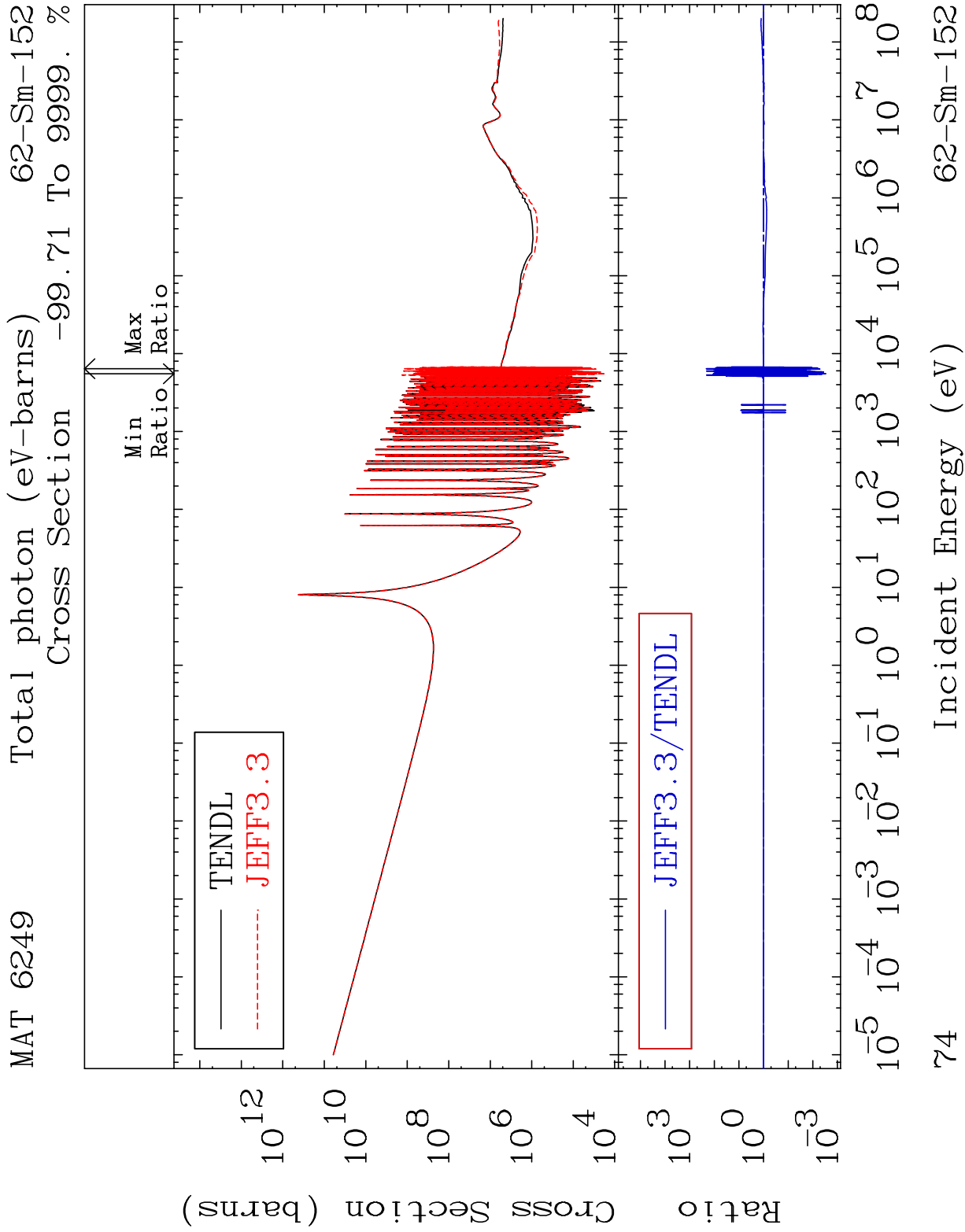


MAT 6249Kerma fission (mt18 or mt19-20-21-38)62-Sm-152

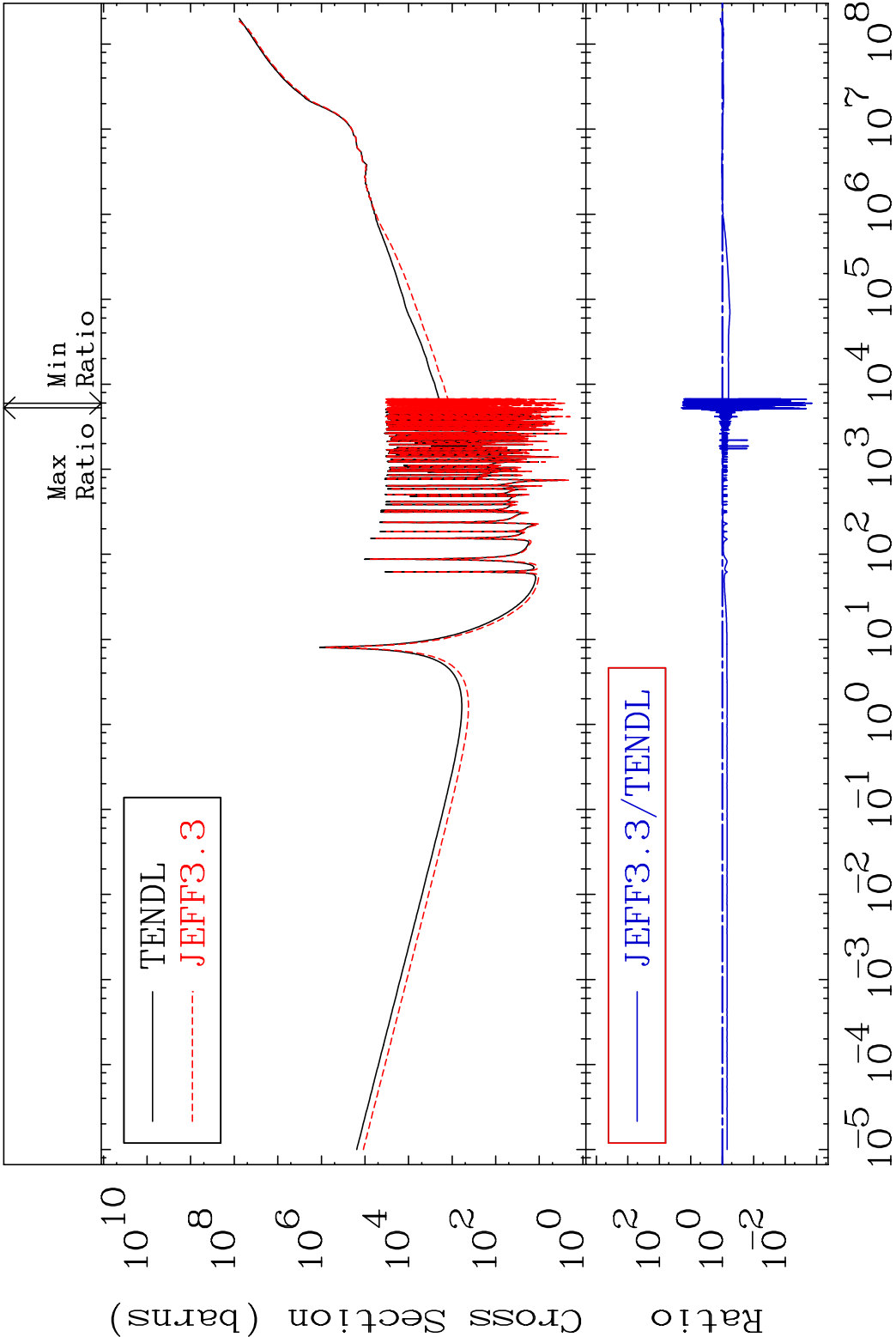
Cross Section -100.0 To 16.44 %





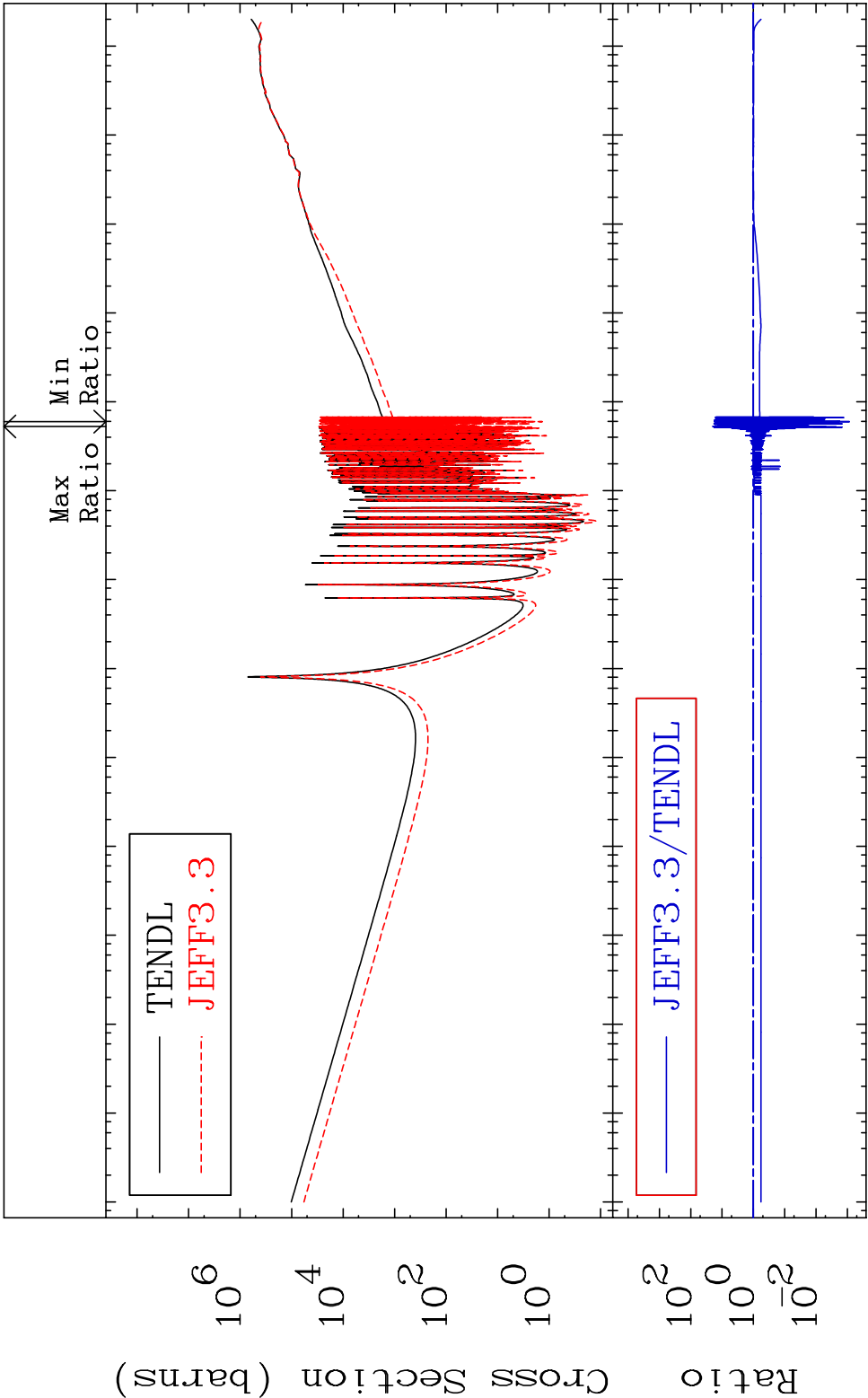


MAT 6249 Total kinematic kerma (high limit) 62-Sm-152
Cross Section -99.86 To 1865. %

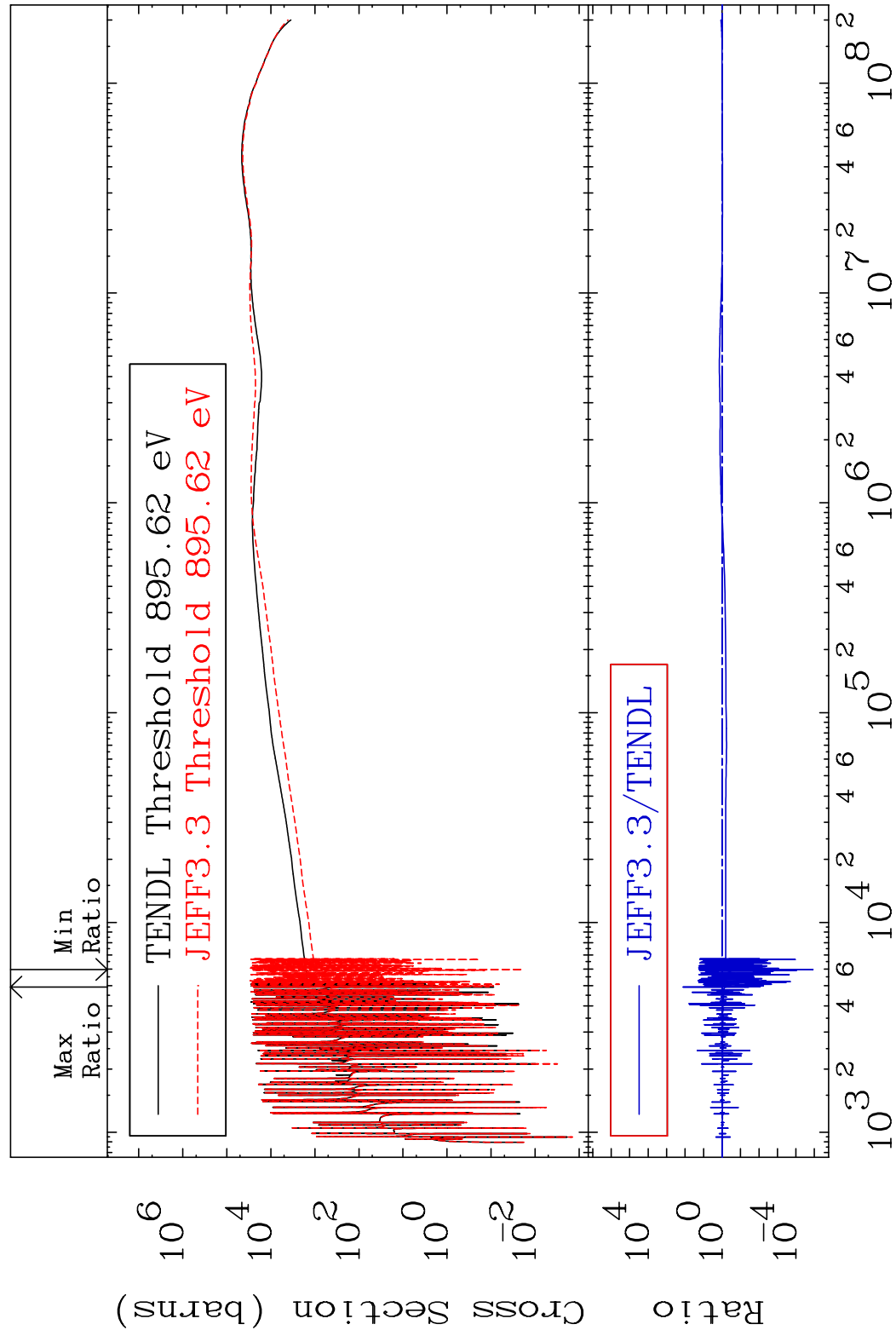


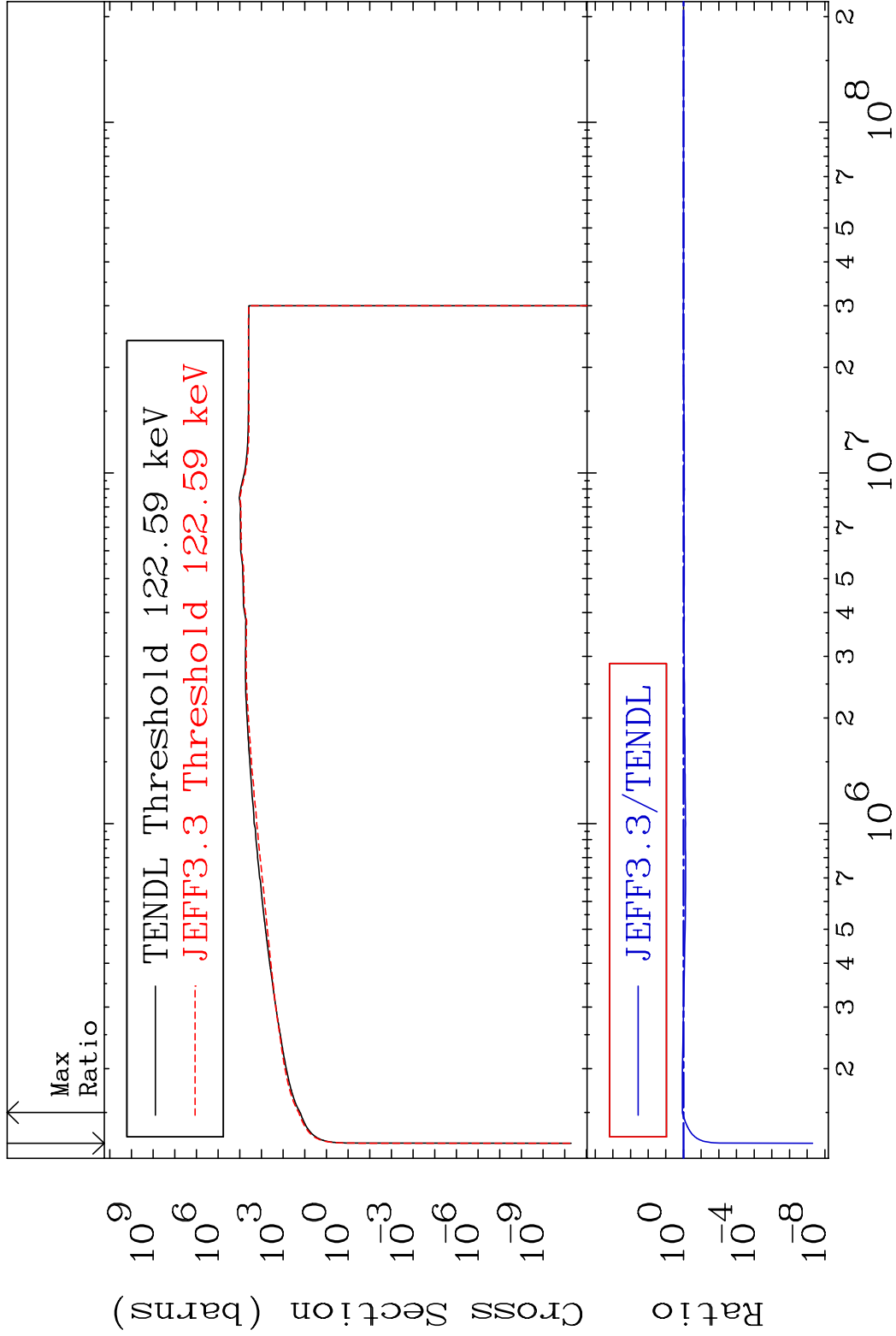
75 Incident Energy (eV) 62-Sm-152

MAT 6249	Dpa total (eV-barns)	62-Sm-152
	Cross Section	-99.91 To 1869. %

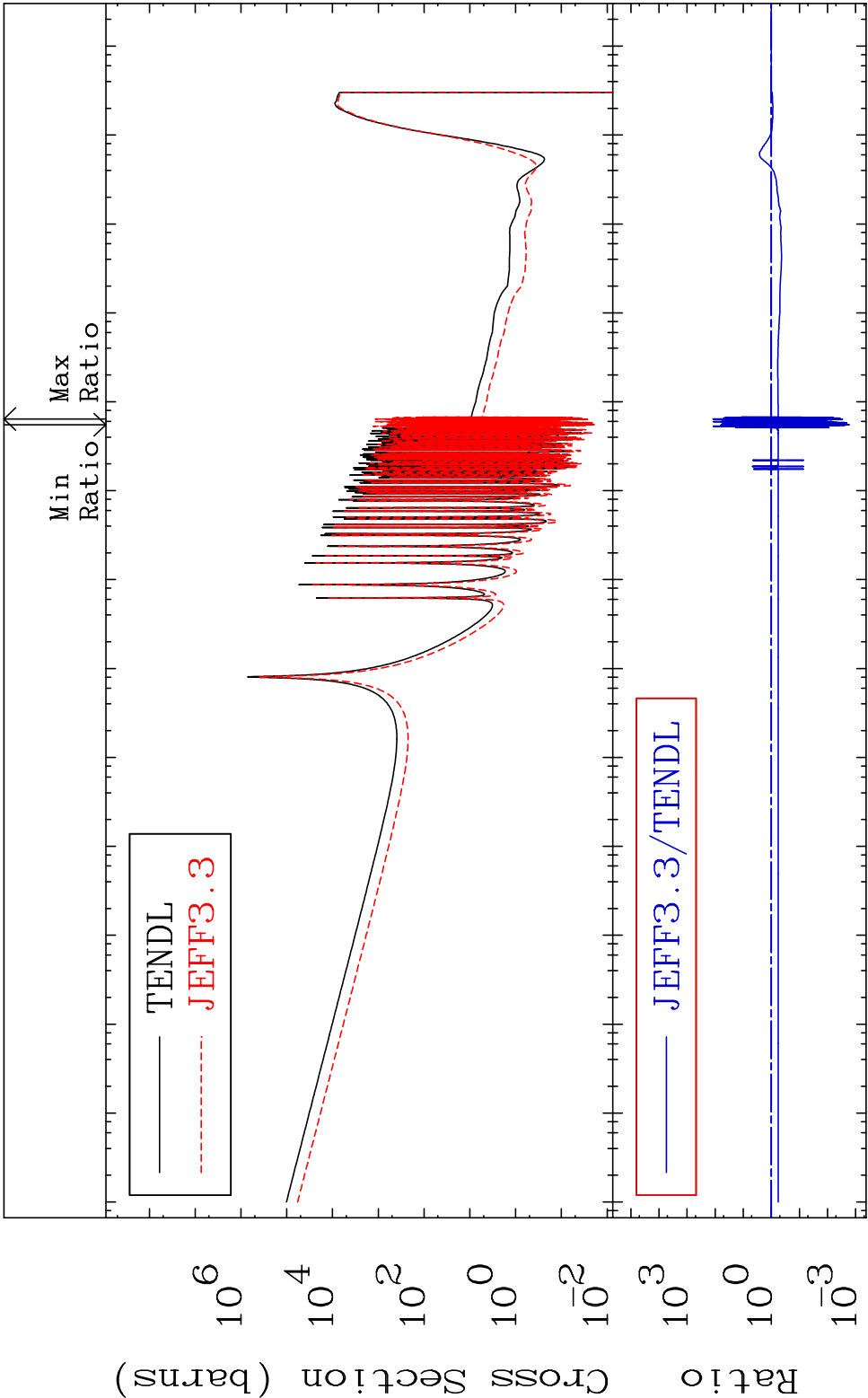


MAT 6249 Dpa elastic (mt2) 62-Sm-152
 Cross Section -100.0 To 9999. %





MAT 6249 Dpa disappearance (mt102 -120) 62-Sm-152
Cross Section -99.83 To 9999. %



79 Incident Energy (eV) 62-Sm-152

