

Program Complot  
(Version 2018-1)

by

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Press Mouse Button to Start

MAT 9131

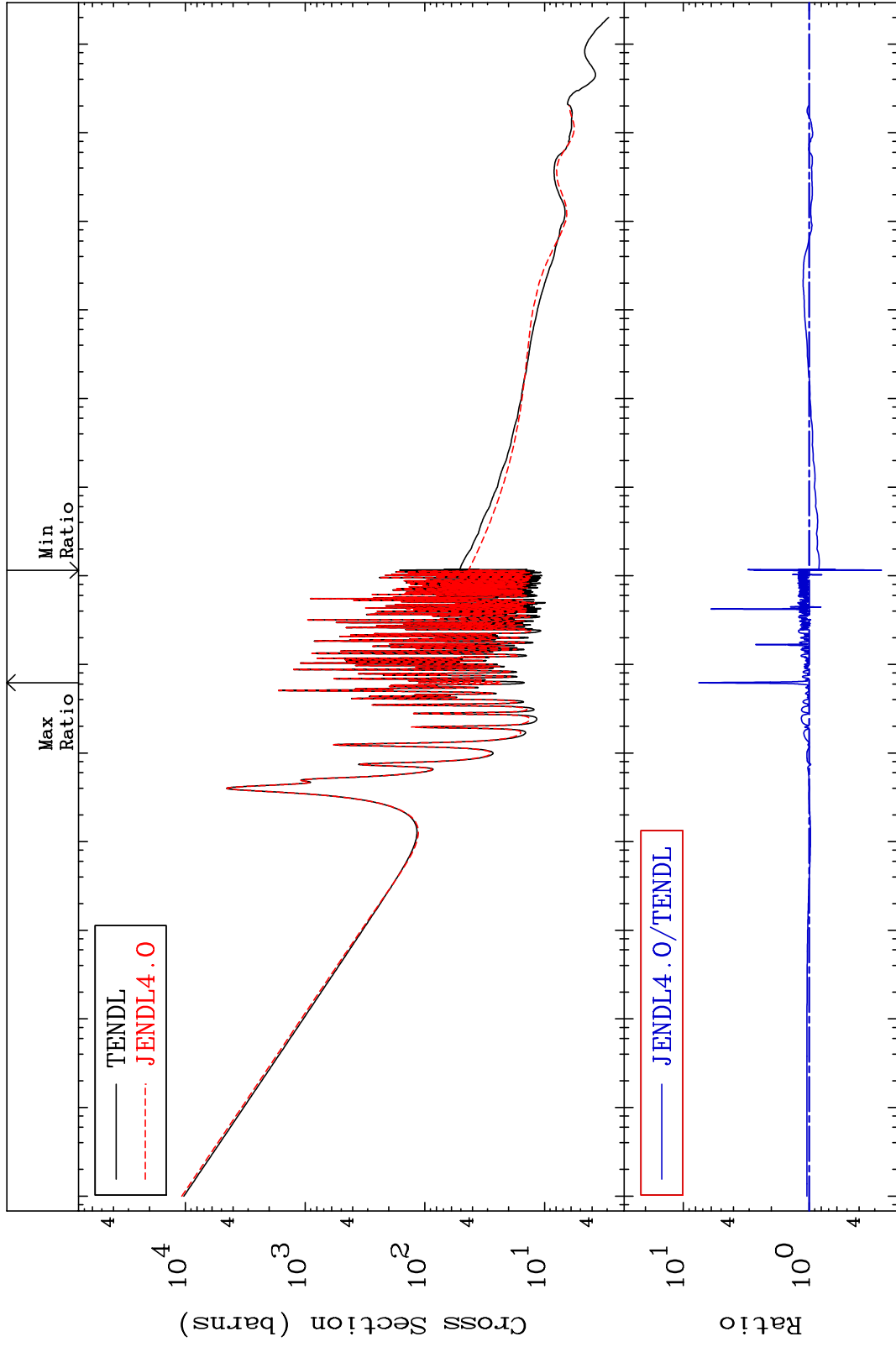
91-Pa-231

-73.45 To 659.3 %

Total  
Cross Section

Max Ratio

Min Ratio



Incident Energy (eV)

10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

91-Pa-231

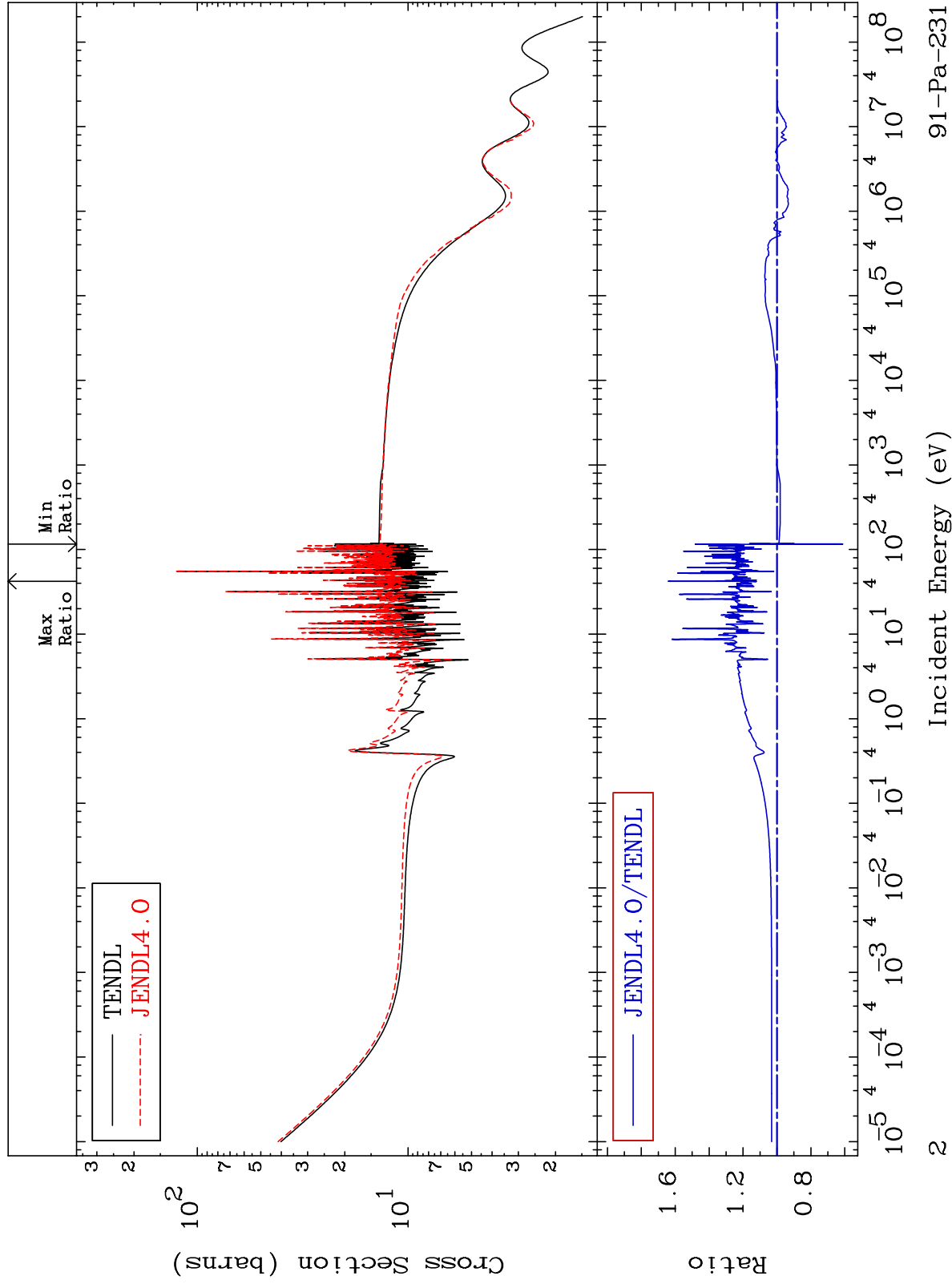
MAT 9131

Elastic

91-Pa-231

Cross Section

-38.85 To 64.25 %



91-Pa-231

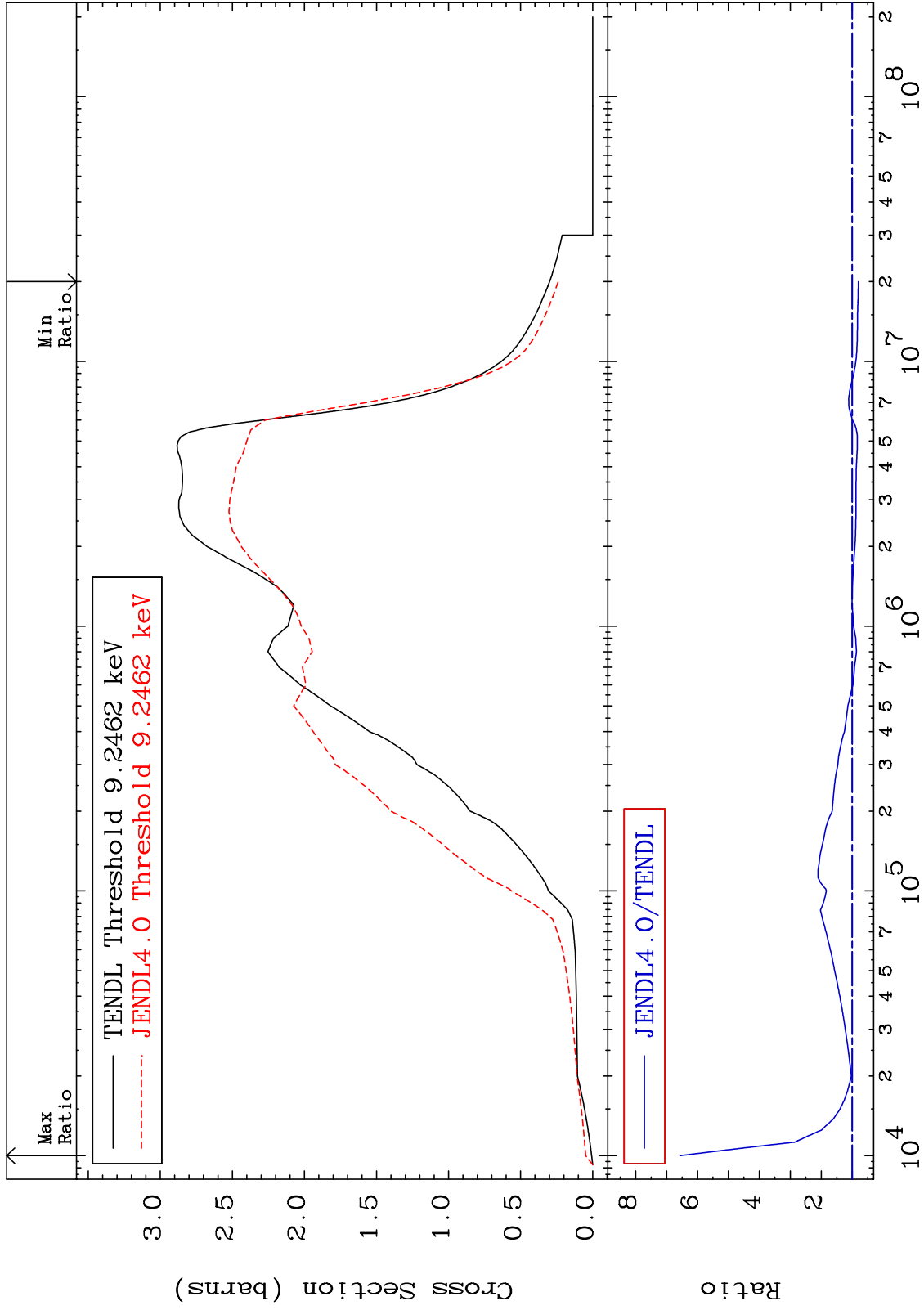
Incident Energy (eV)

2

MAT 9131

Inelastic  
Cross Section

91-Pa-231  
-20.02 To 556.5 %



91-Pa-231

91-Pa-231

3

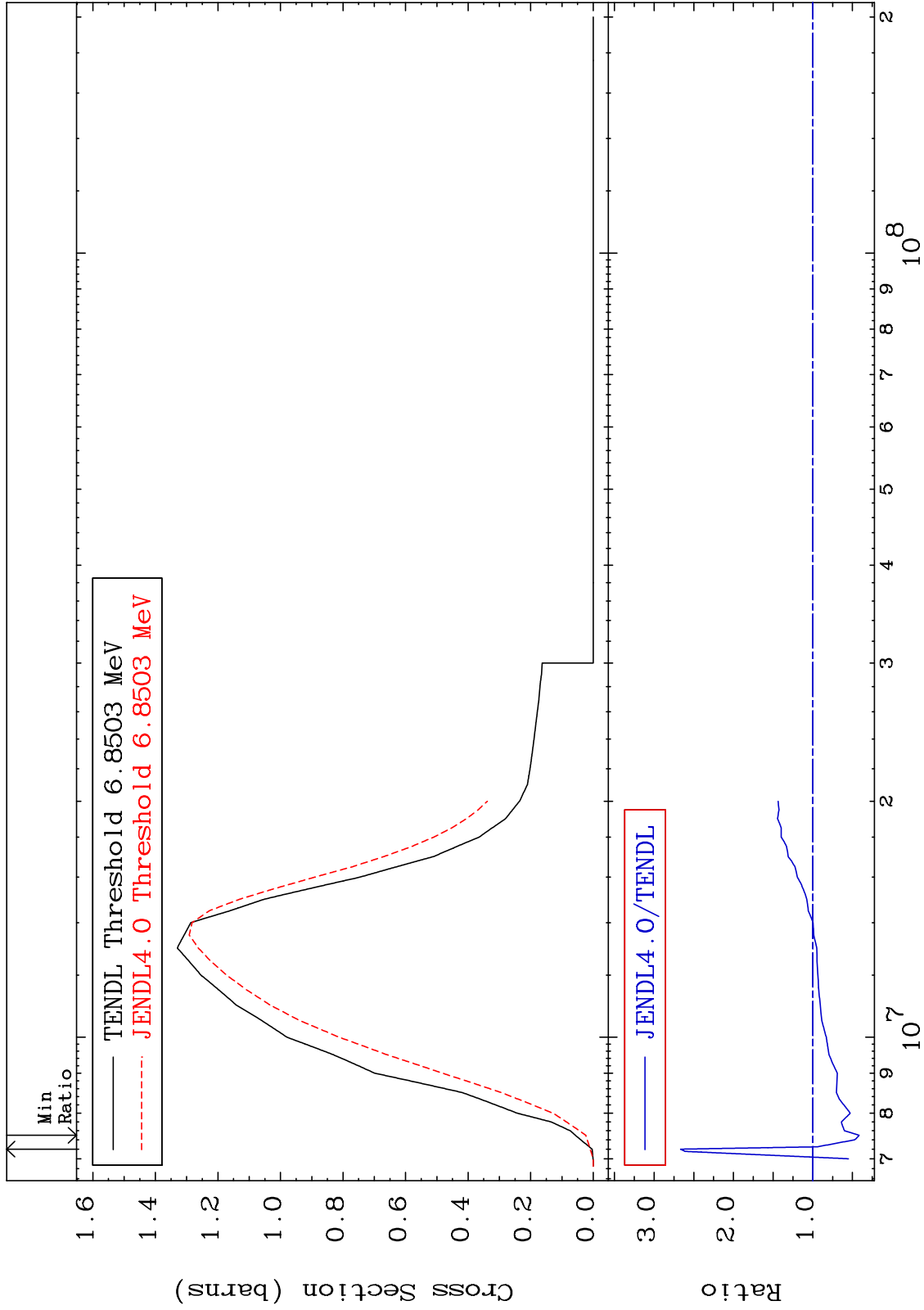
MAT 9131

(n,2n)

91-Pa-231

Cross Section

-58.49 To 166.6 %



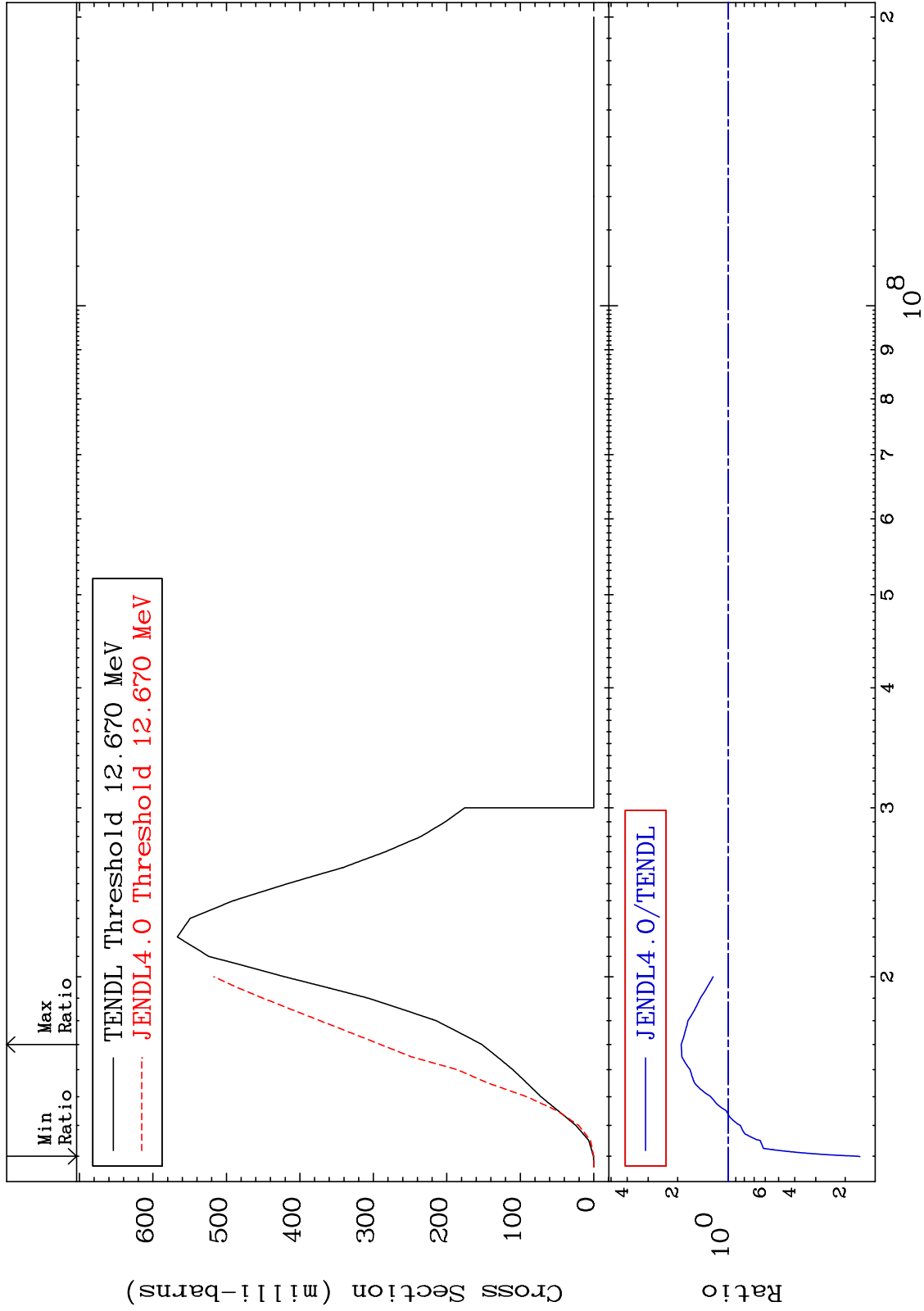
MAT 9131

(n, 3n)

91-Pa-231

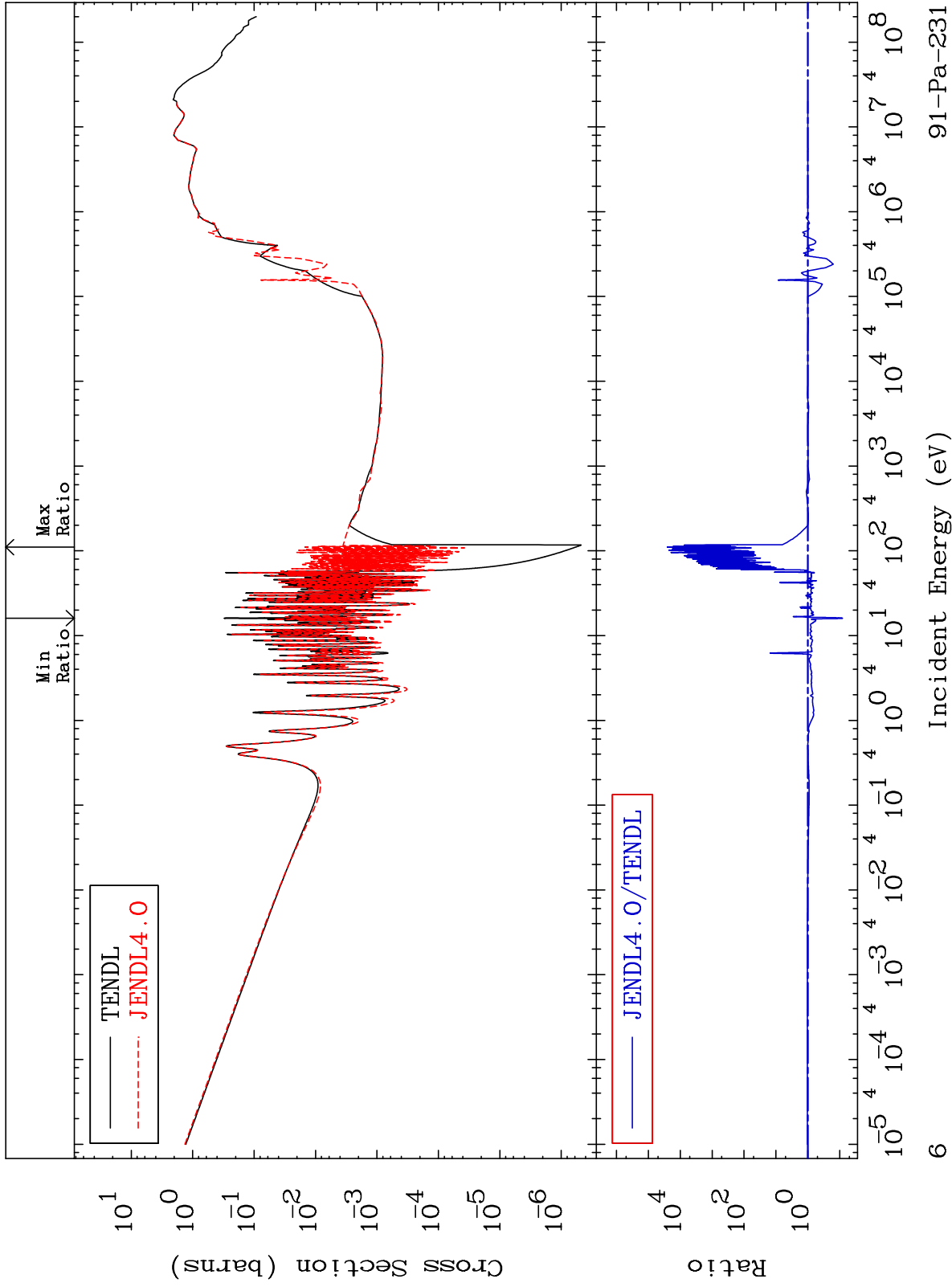
Cross Section

-83.67 To 90.52 %



MAT 9131

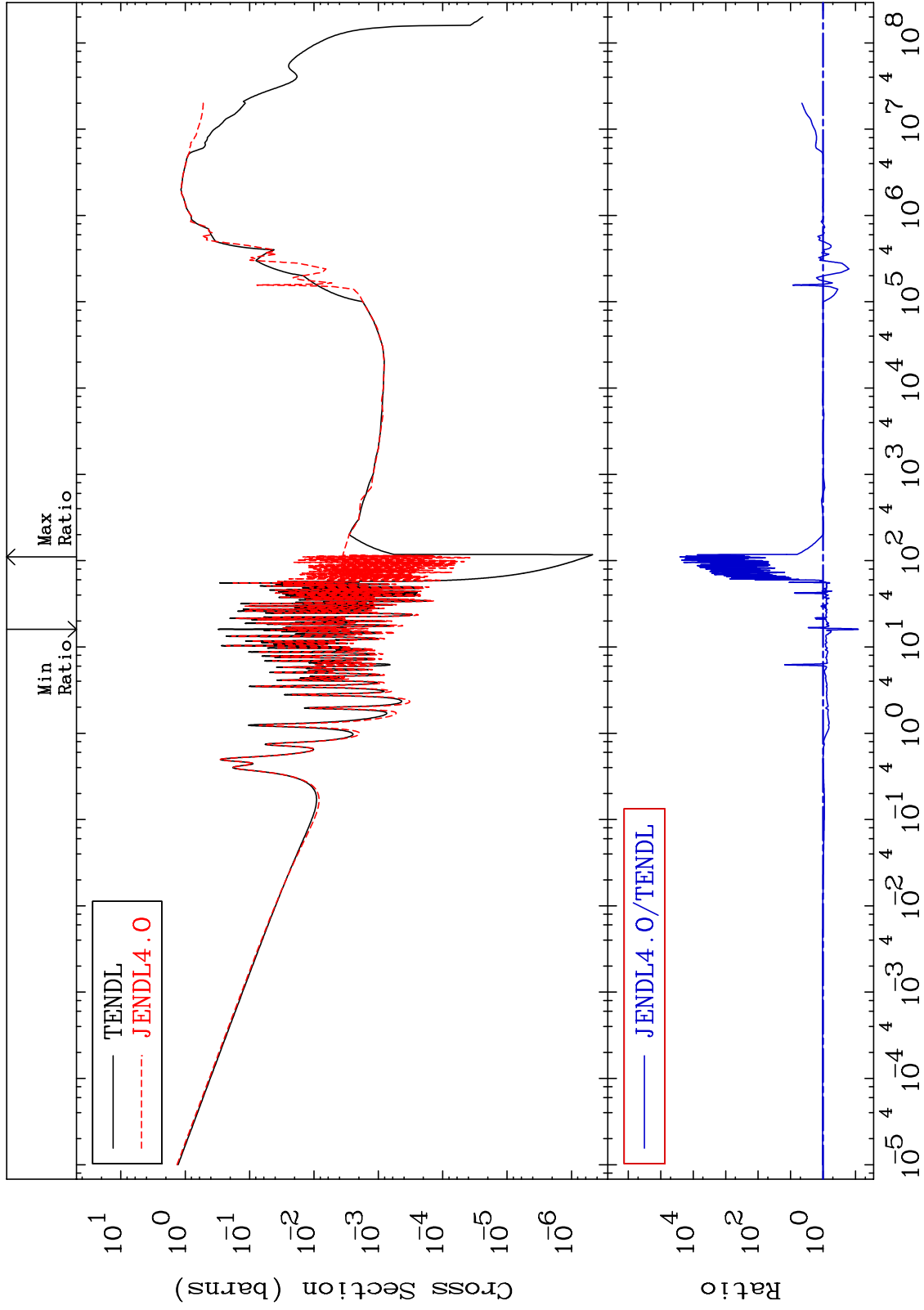
Fission Cross Section  
91-Pa-231  
-91.84 To 9999. %



MAT 9131

(n,f) First Chance  
Cross Section

91-Pa-231  
-91.84 To 9999. %



7

Incident Energy (eV)

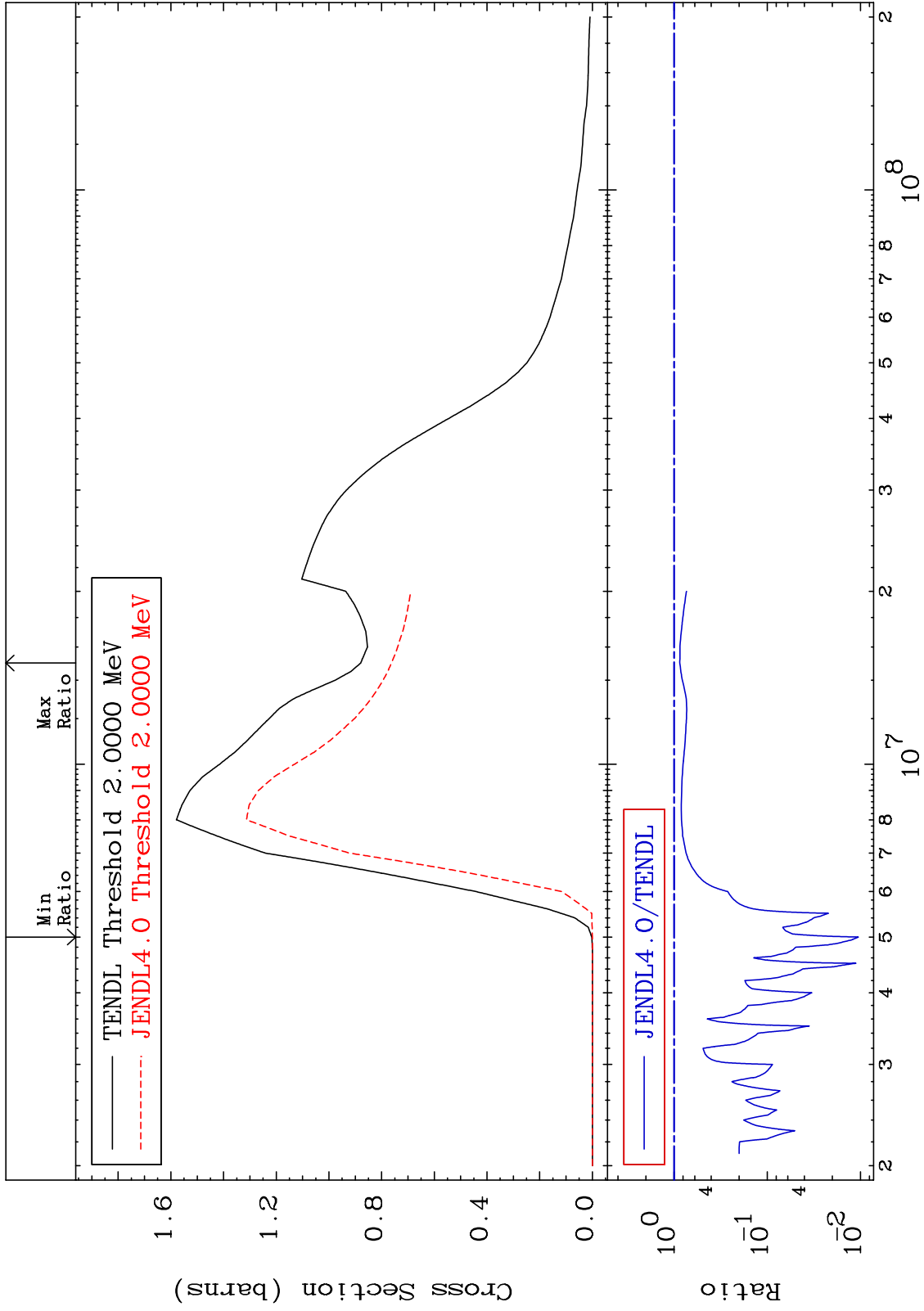
91-Pa-231



MAT 9131

(n, nf) Second Chance  
Cross Section

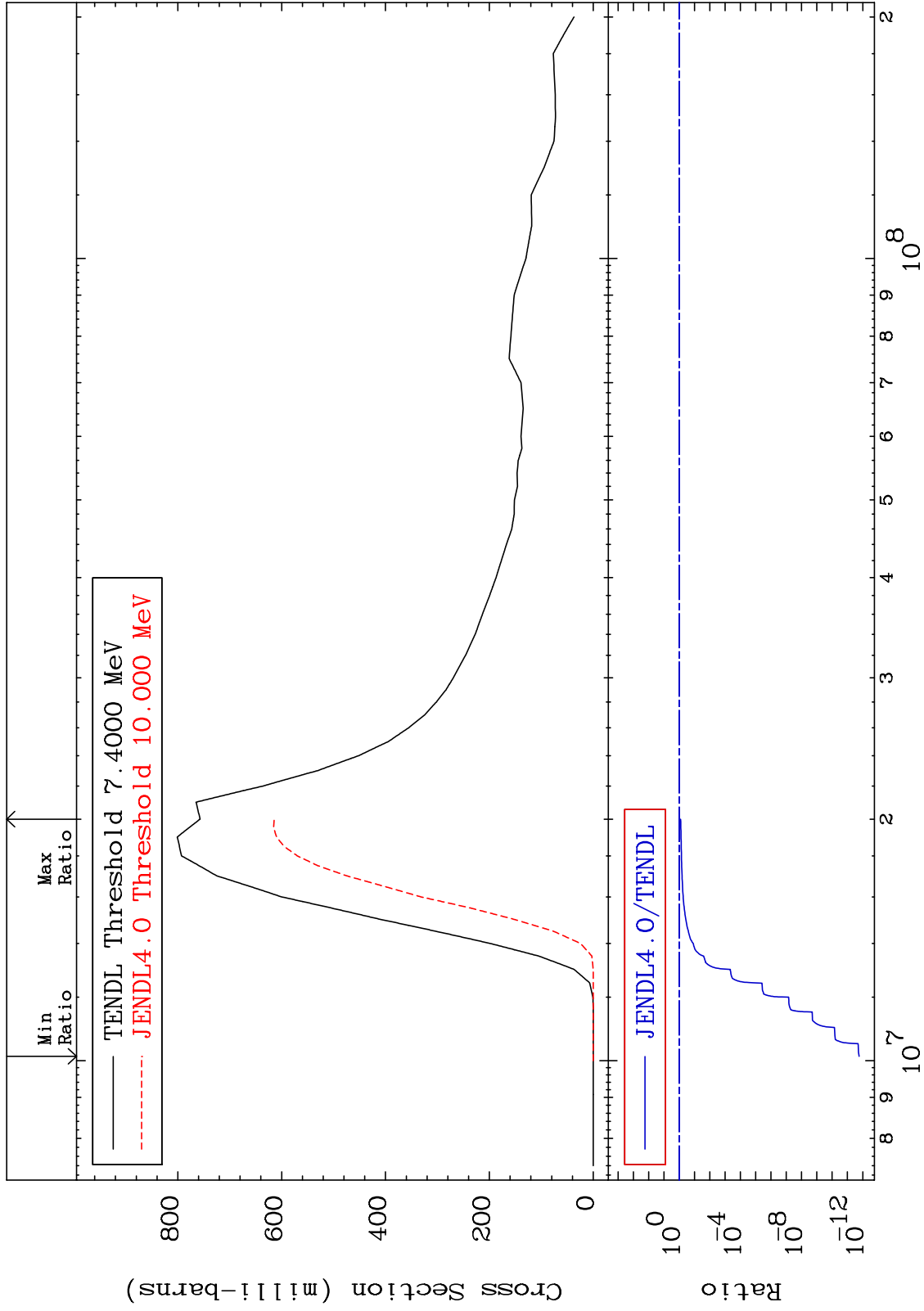
91-Pa-231  
-98.95 To -13.27%



MAT 9131

(n,2nf) Third Chance  
Cross Section

91-Pa-231  
-100.0 To -18.85%



9

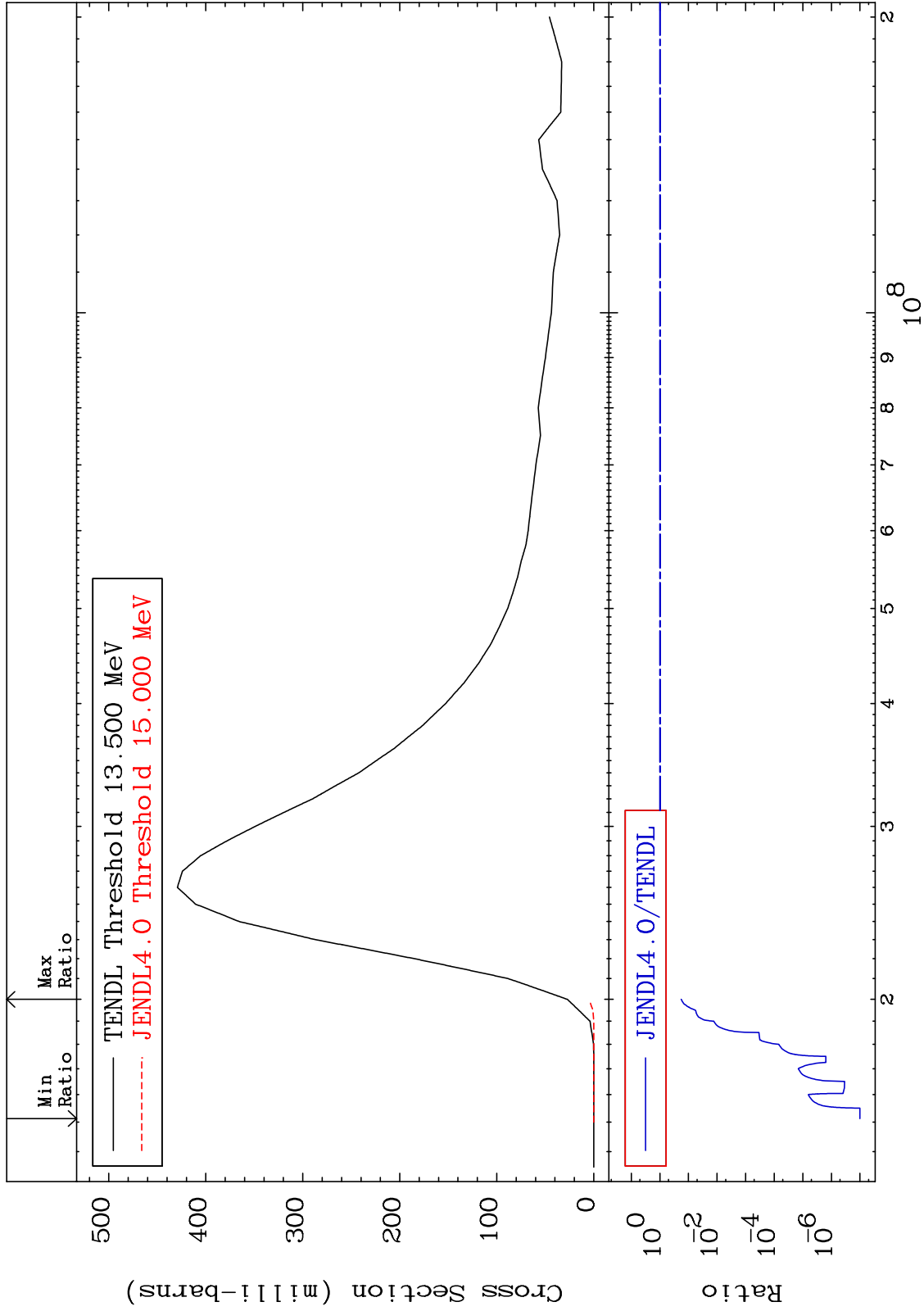
Incident Energy (eV)

91-Pa-231

MAT 9131

(n,3nf) Fourth Chance  
Cross Section

91-Pa-231  
-100.0 To -82.07%



10

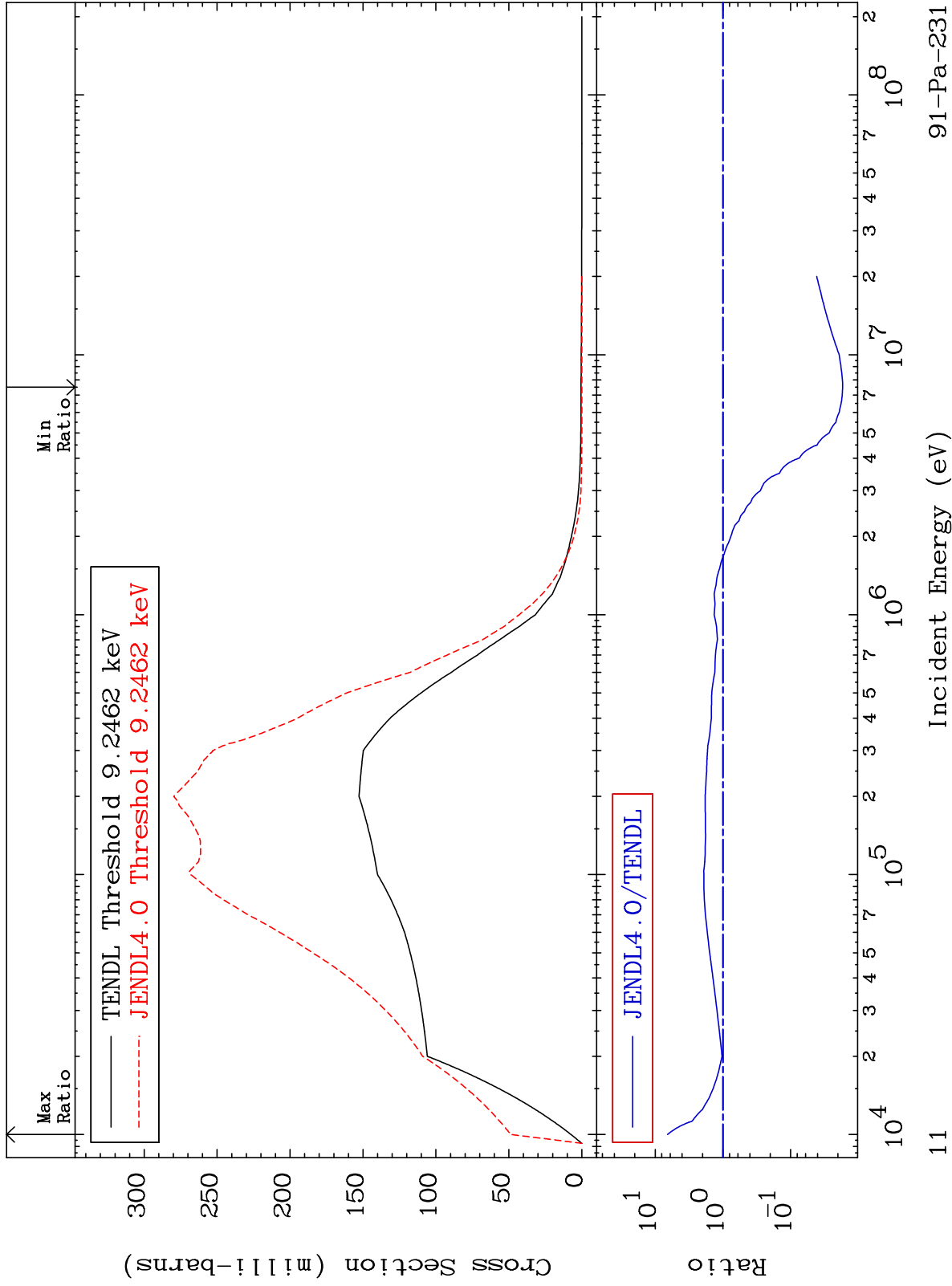
Incident Energy (eV)

91-Pa-231

MAT 9131

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

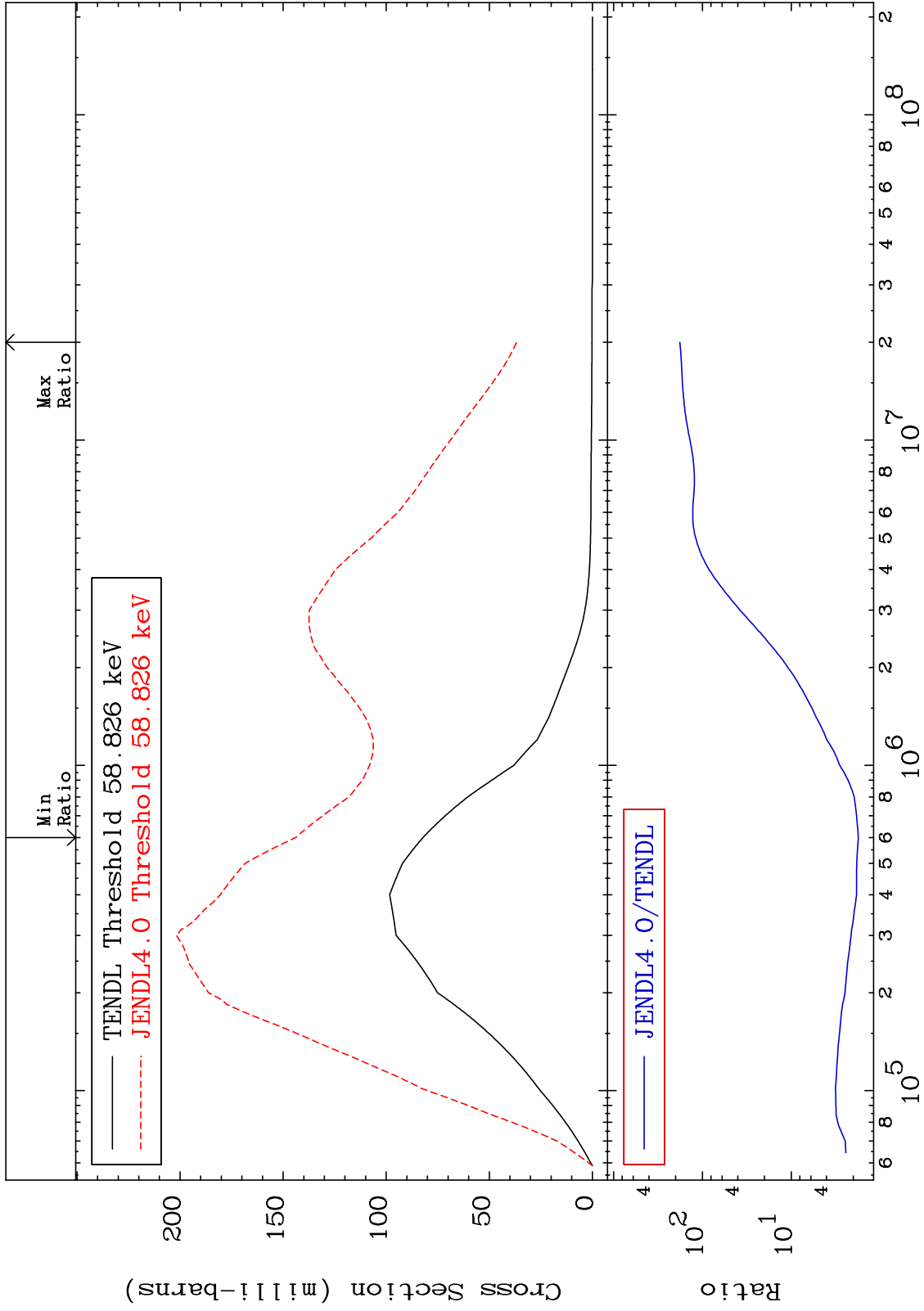
91-Pa-231  
-98.29 To 556.5 %



MAT 9131

MT= 52 (n,n') Level  
Cross Section

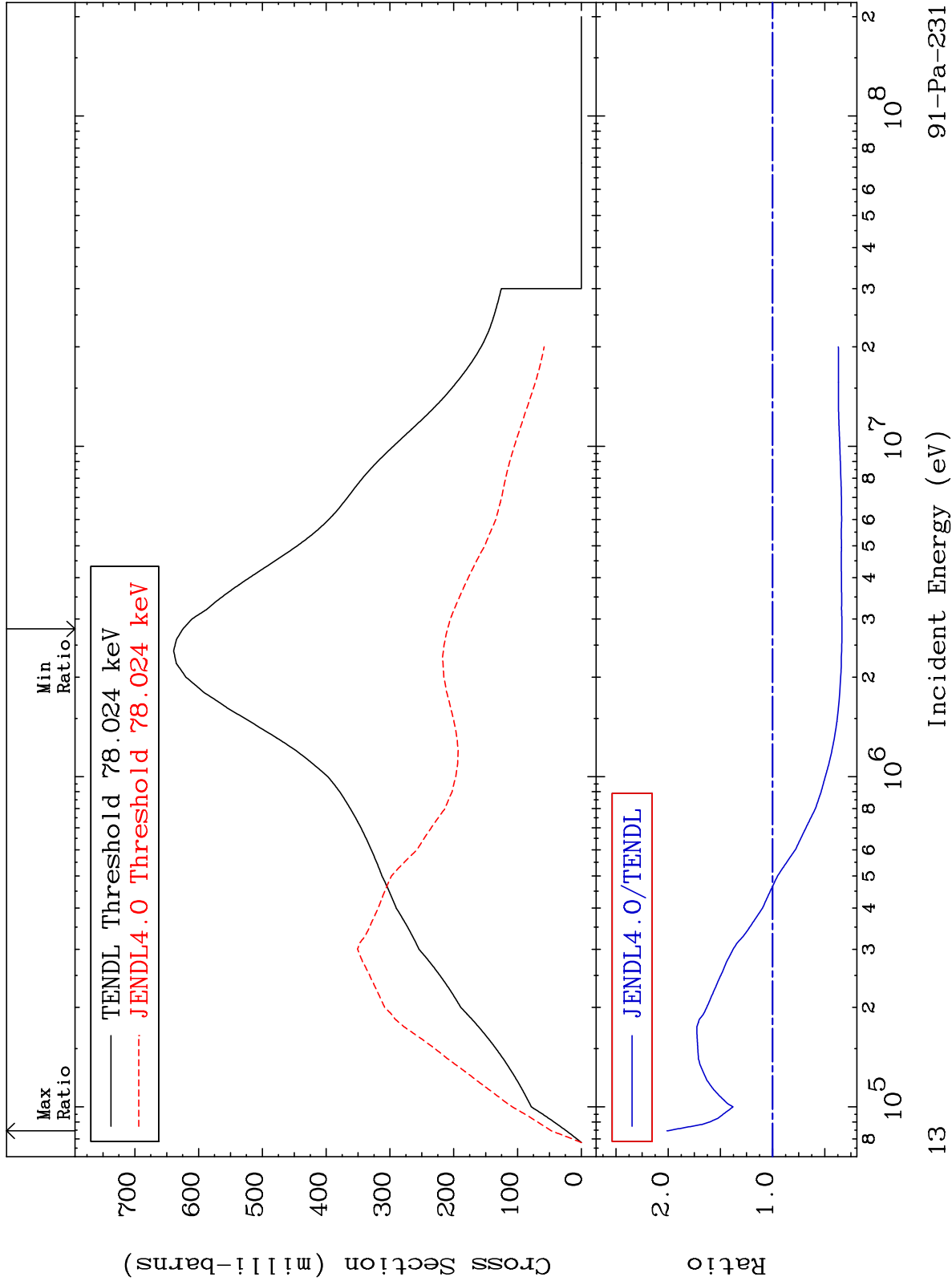
91-Pa-231  
75.23 To 9999. %



MAT 9131

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

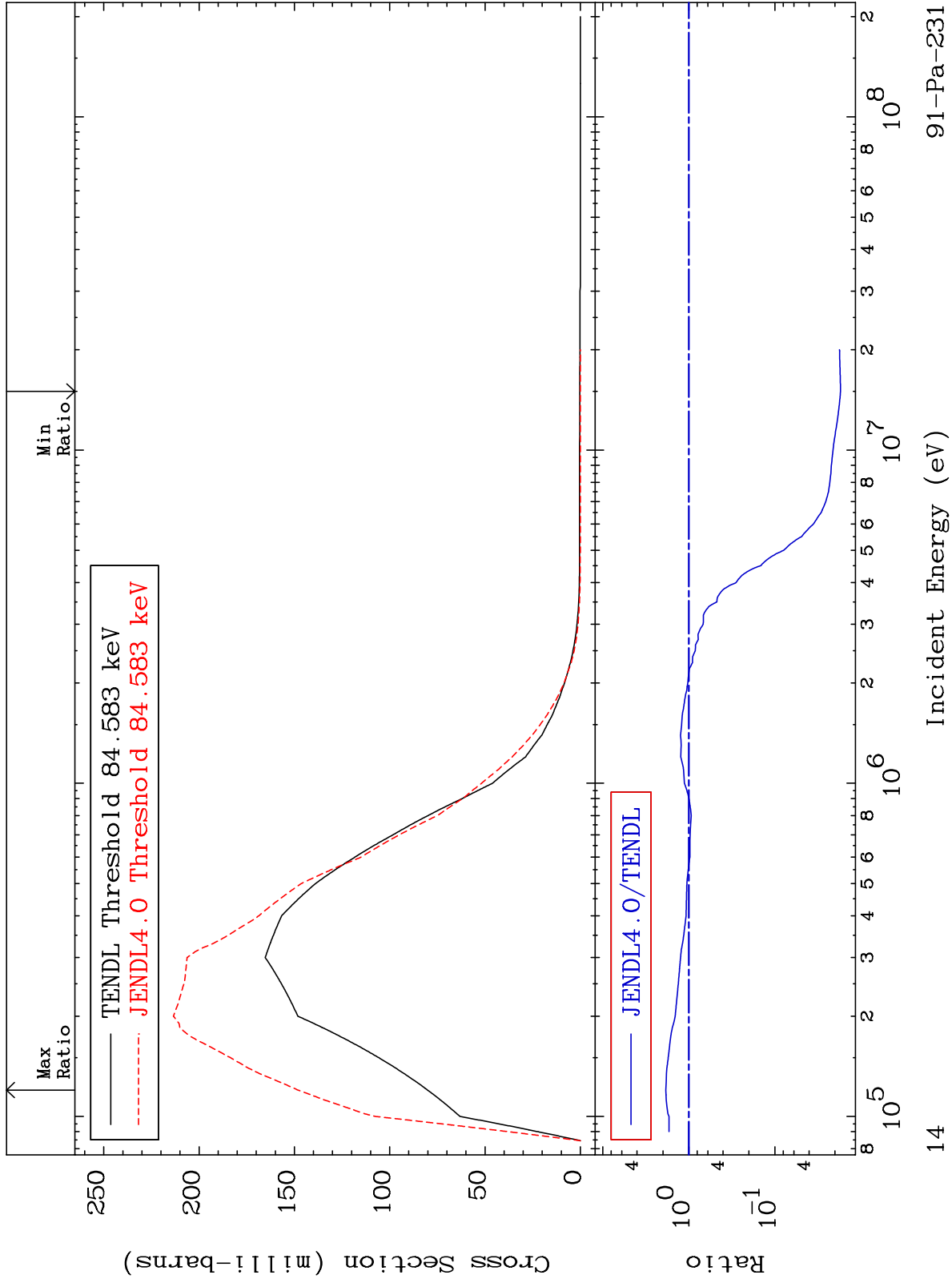
91-Pa-231  
-66.42 To 101.2 %



MAT 9131

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

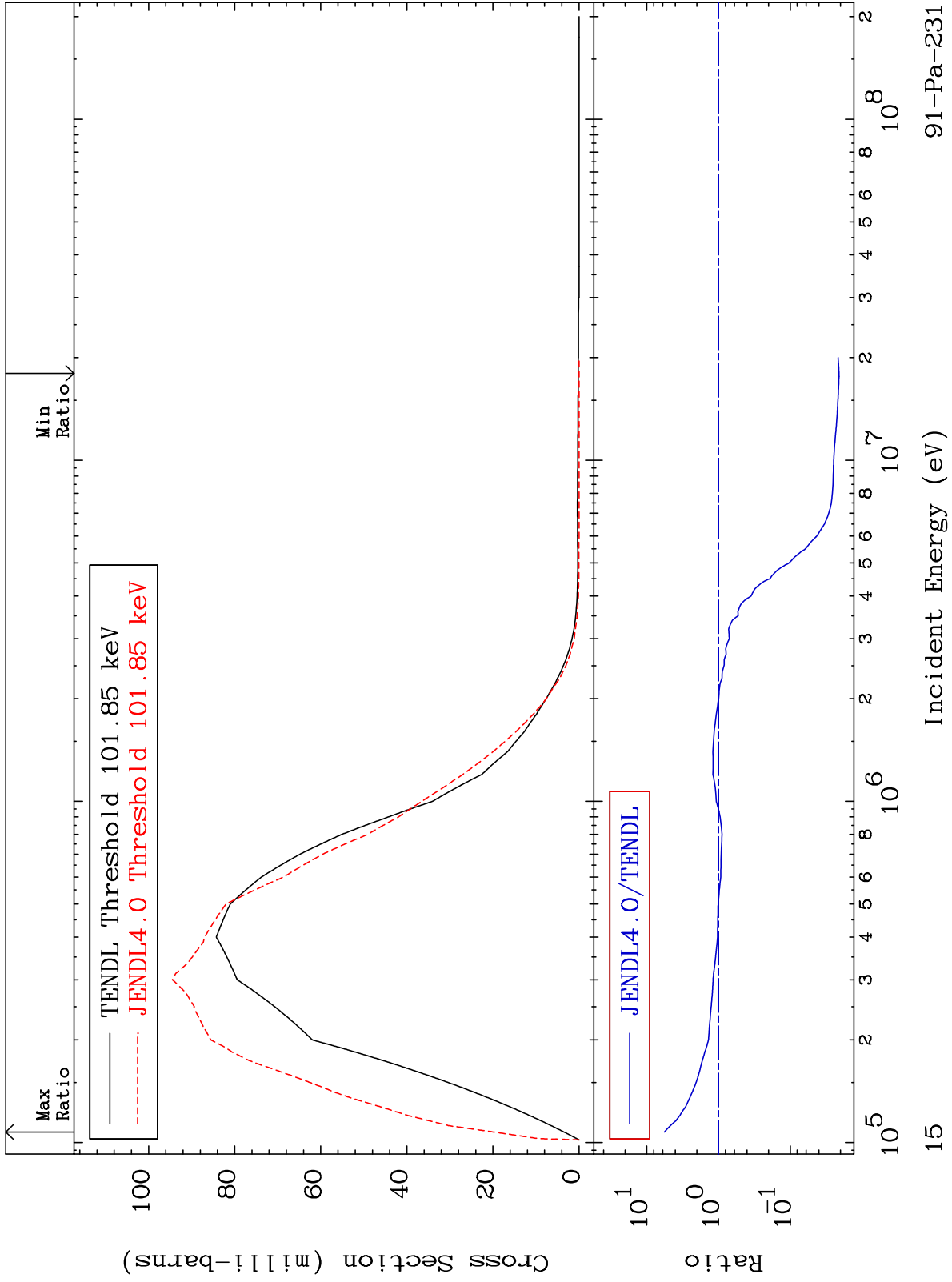
91-Pa-231  
-98.28 To 84.85 %



MAT 9131

MT= 55 (n,n') Level  
Cross Section

91-Pa-231  
-97.91 To 465.6 %



91-Pa-231

Incident Energy (eV)

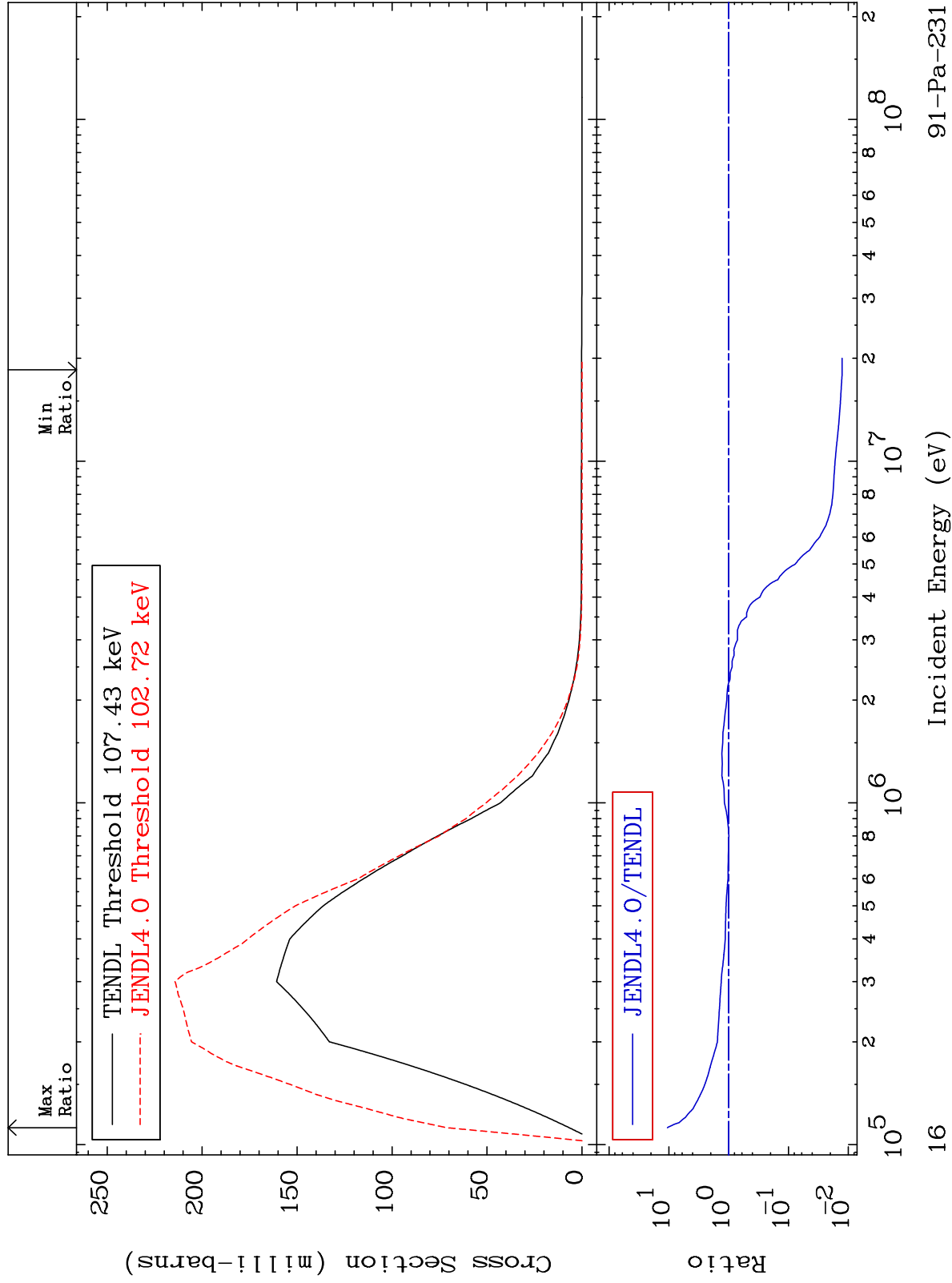
15



MAT 9131

MT= 56 (n,n') Level  
Cross Section

91-Pa-231  
-98.73 To 957.2 %

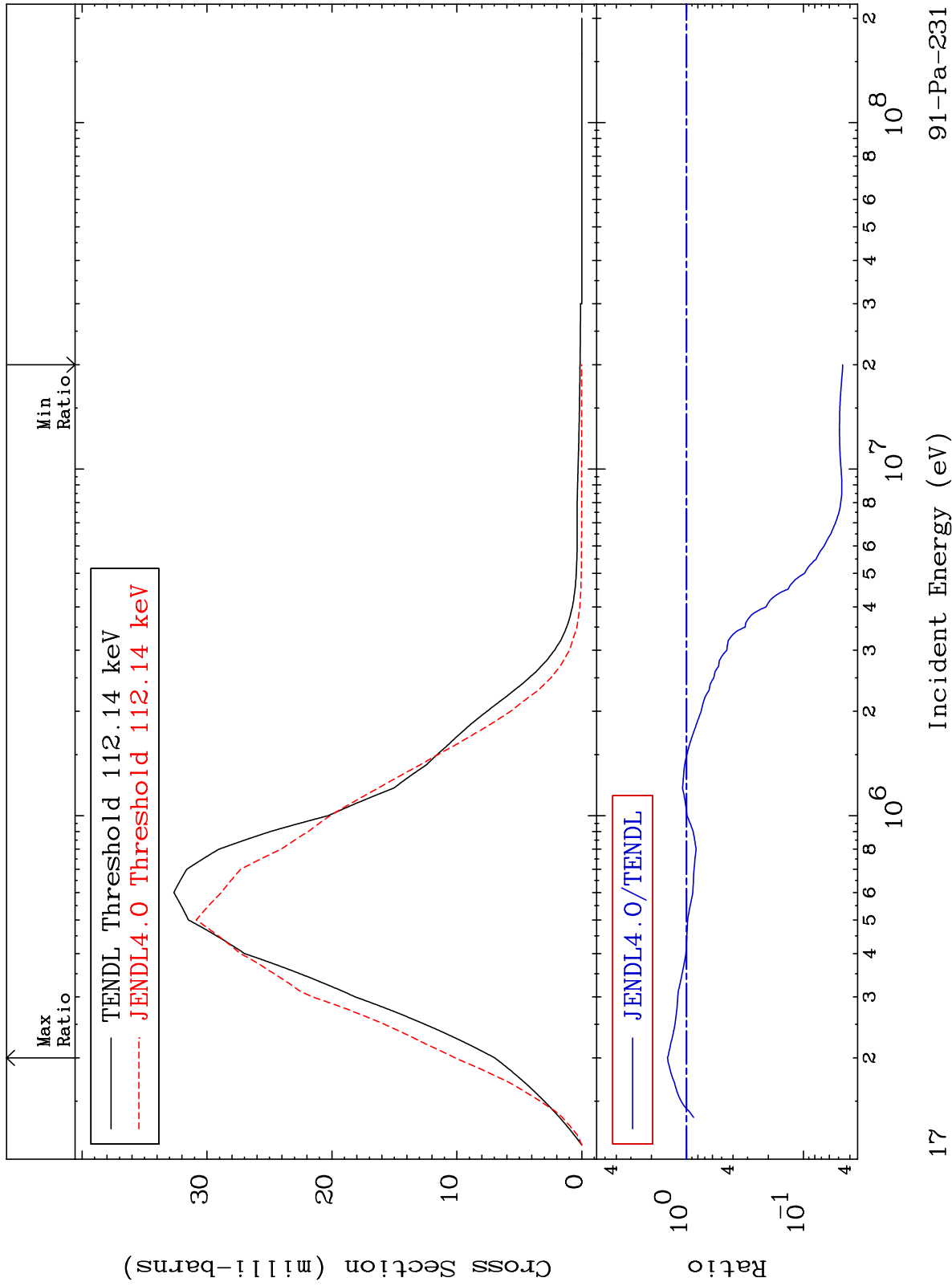


91-Pa-231

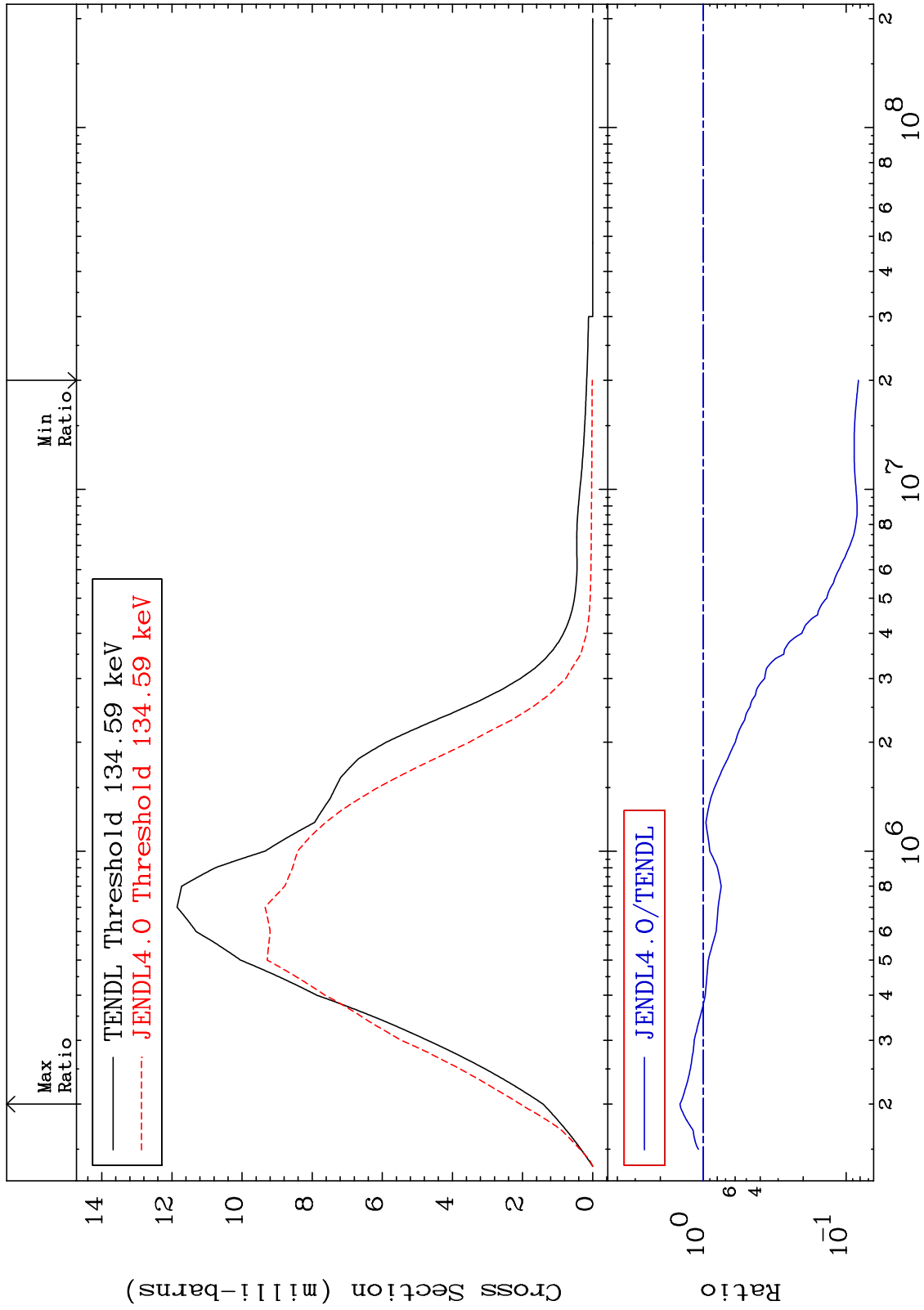
Incident Energy (eV)

16

MAT 9131 MT= 57 (n,n') Level  
 Cross Section 91-Pa-231  
 -95.39 To 45.45 %



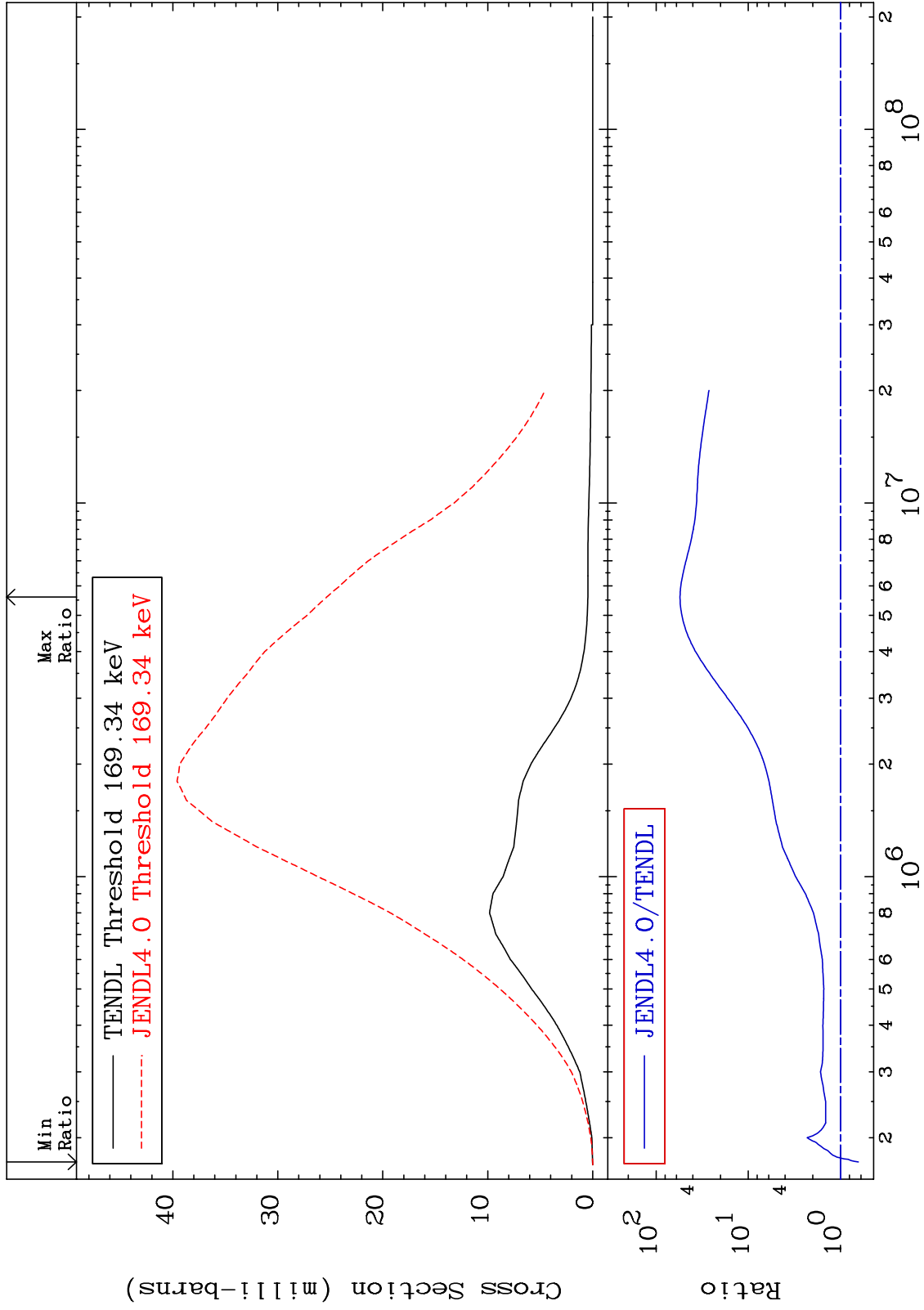
MAT 9131 MT= 58 (n,n') Level Cross Section -91.79 To 45.62 % 91-Pa-231



MAT 9131

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

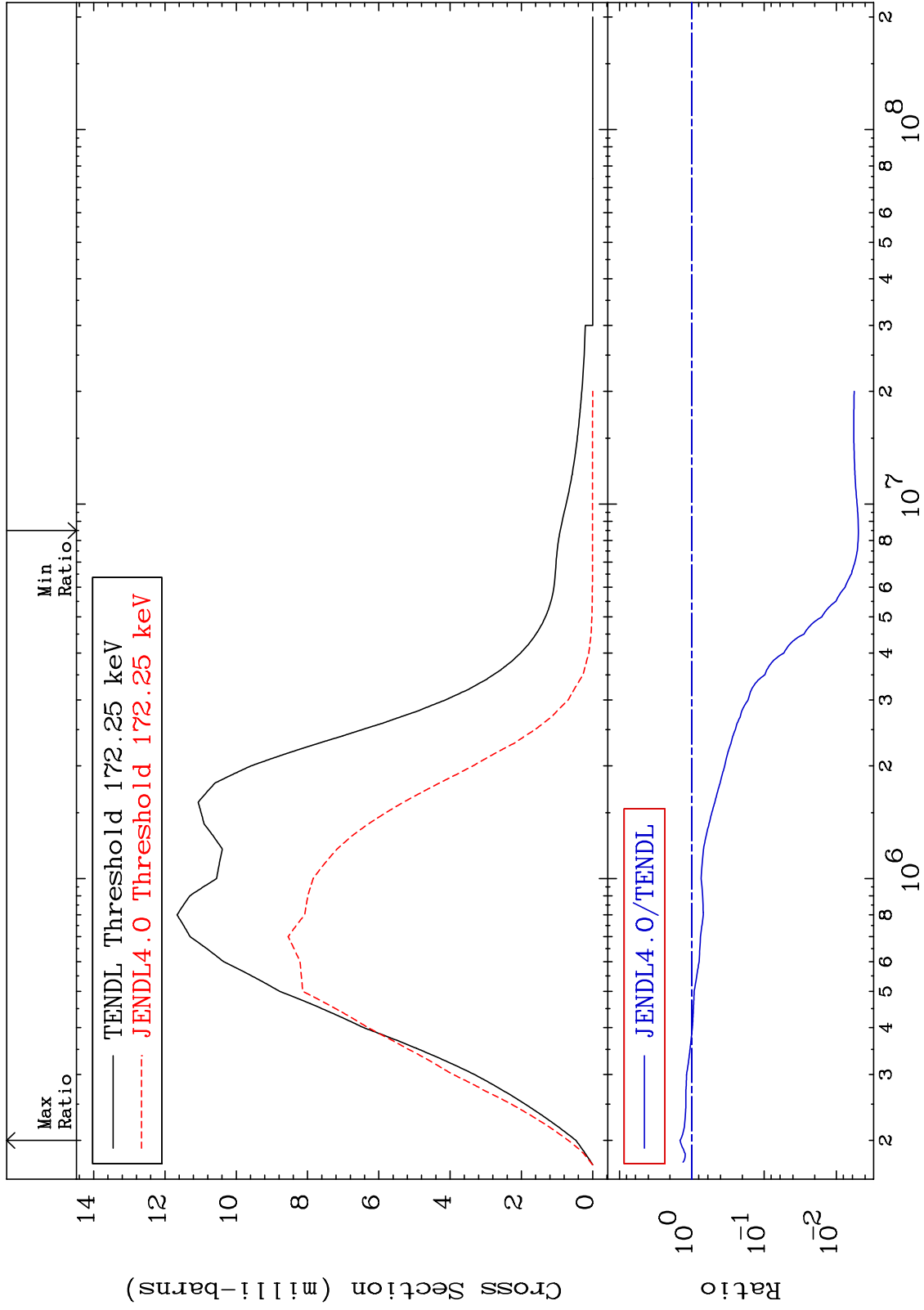
91-Pa-231  
-36.01 To 5400. %



MAT 9131

MT= 60 (n,n') Level  
Cross Section

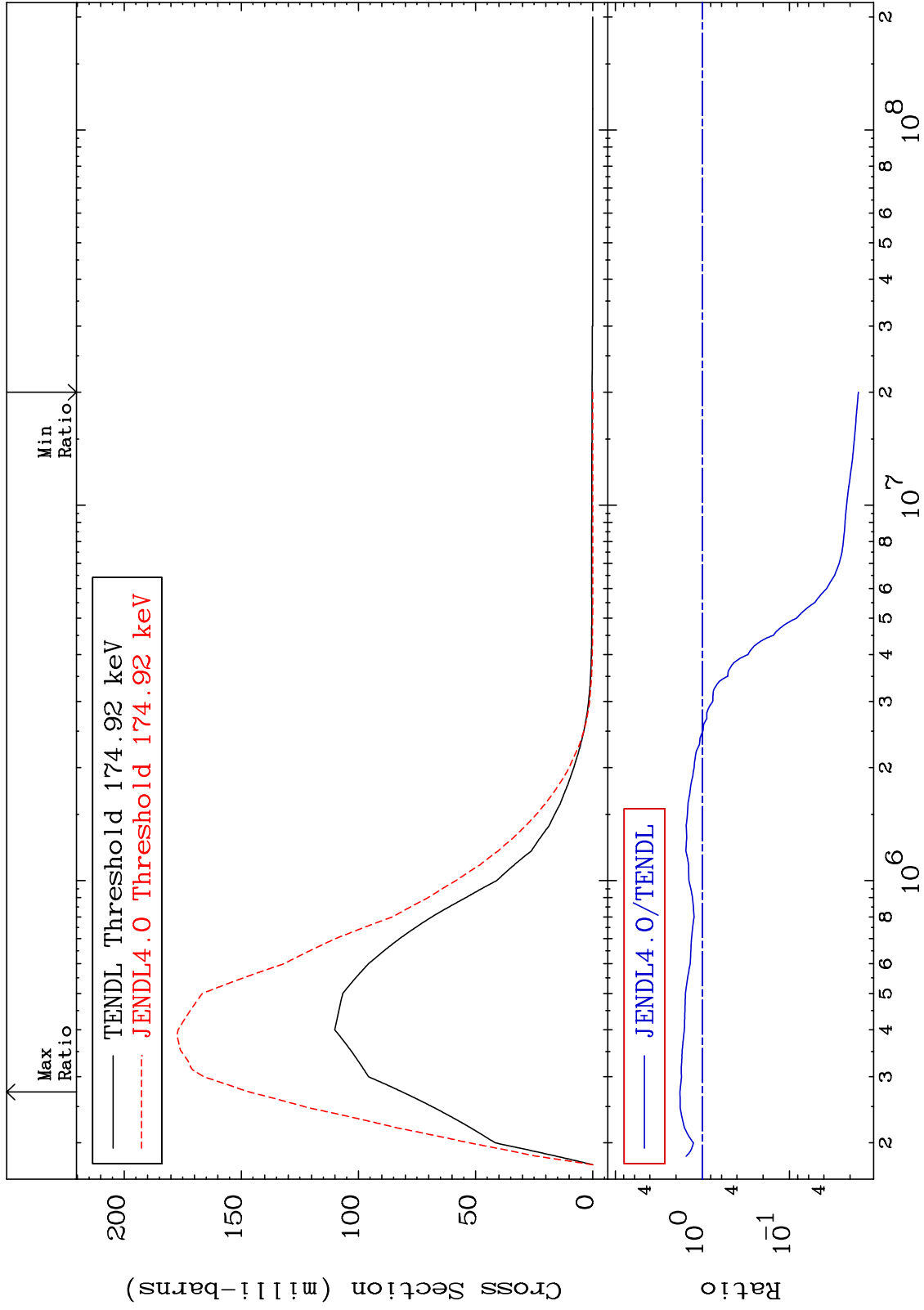
91-Pa-231  
-99.50 To 45.40 %



MAT 9131

MT= 61 (n,n') Level  
Cross Section

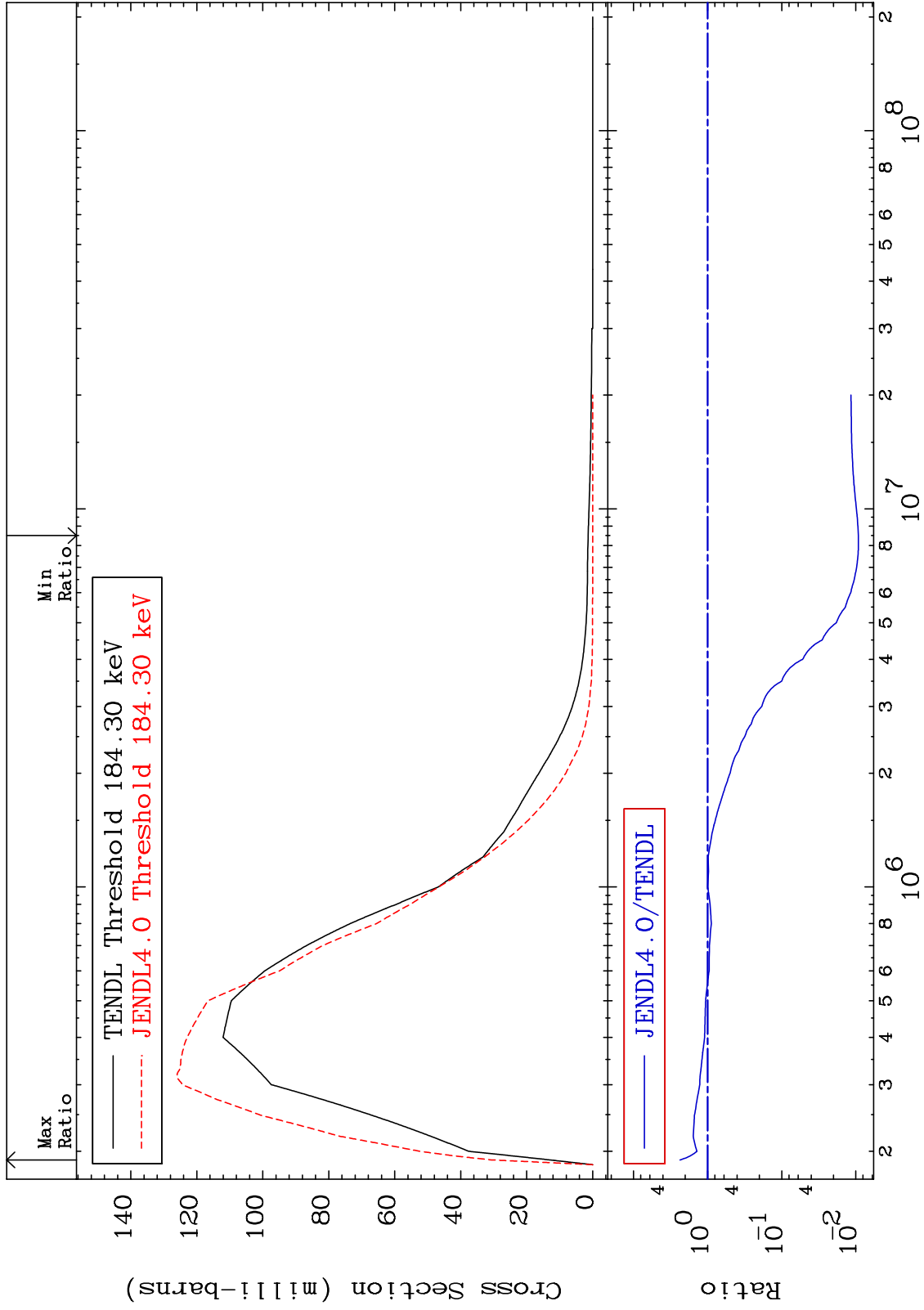
91-Pa-231  
-98.39 To 80.36 %



MAT 9131

MT= 62 (n,n') Level  
Cross Section

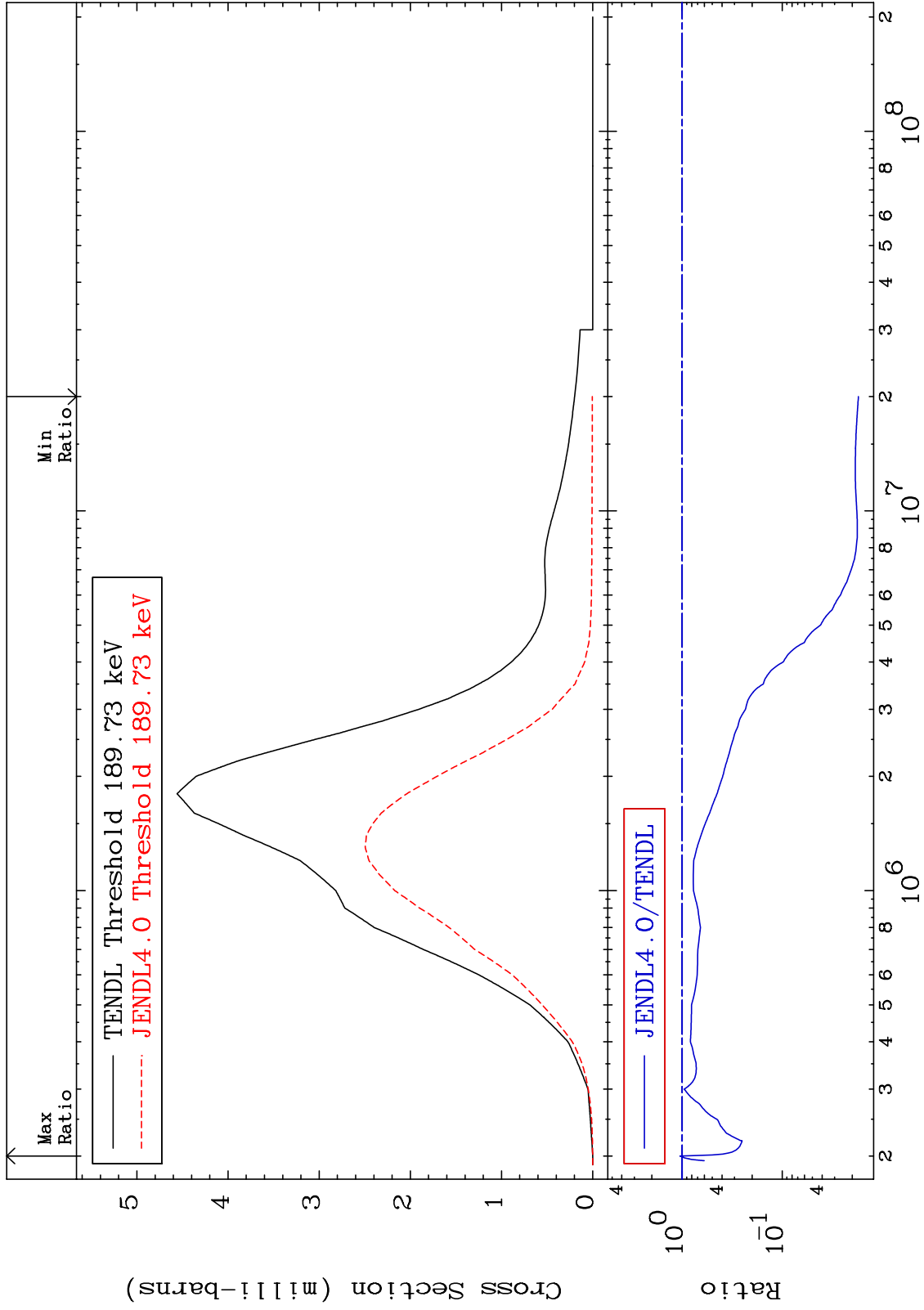
91-Pa-231  
-99.08 To 135.6 %



MAT 9131

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

91-Pa-231  
-98.26 To 4.866 %

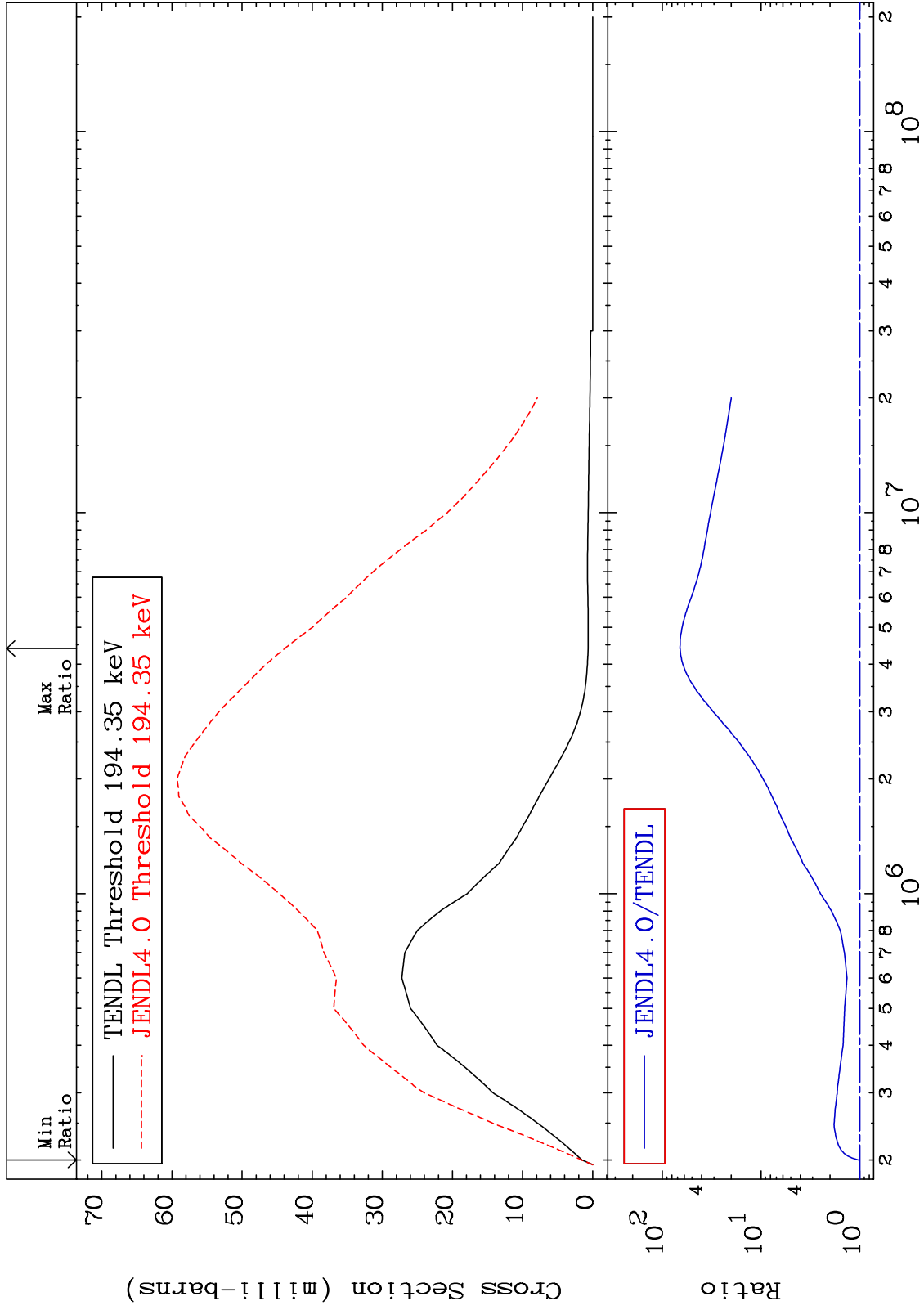




MAT 9131

MT= 64 (n,n') Level  
Cross Section

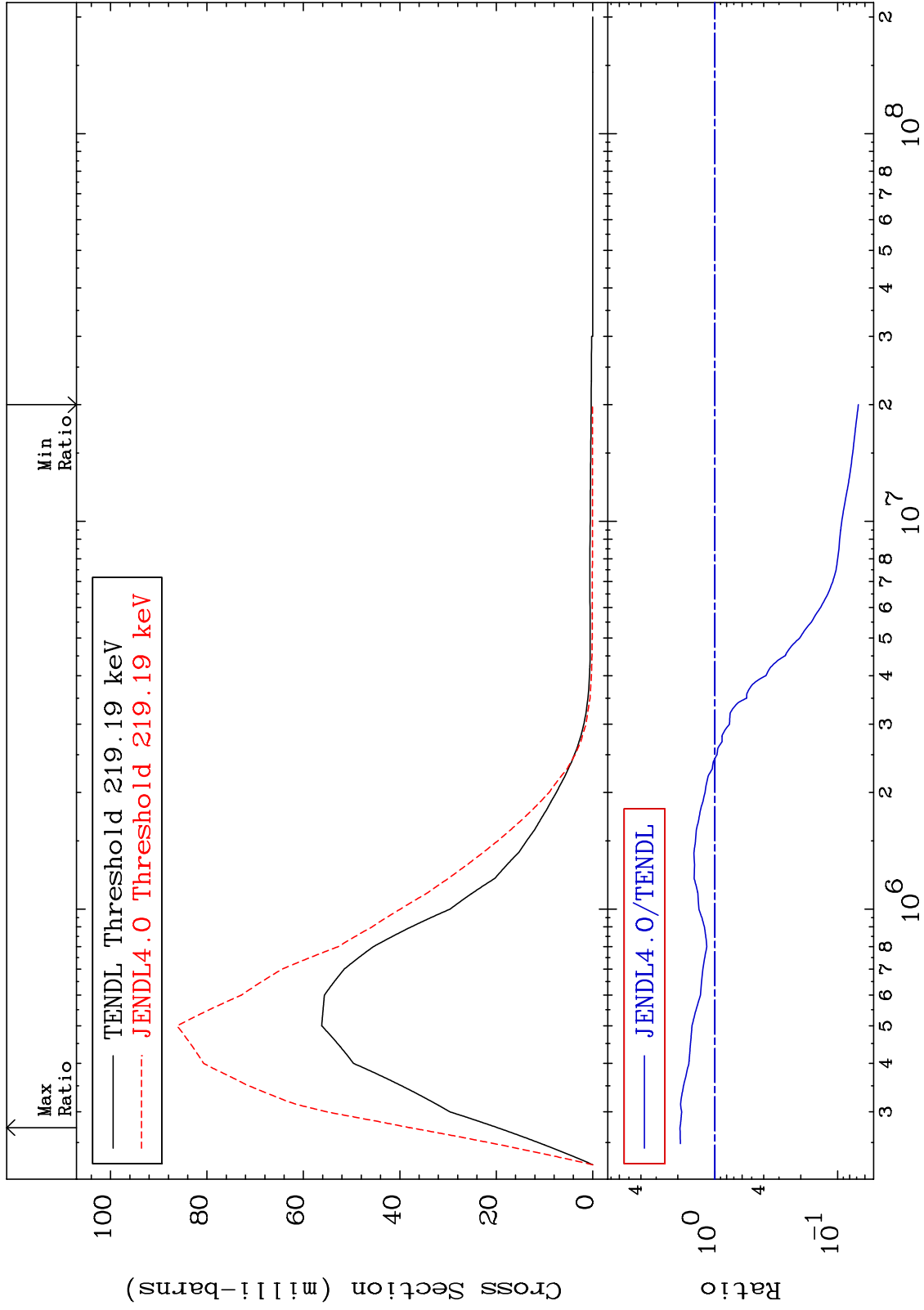
91-Pa-231  
2.984 To 6518. %



MAT 9131

MT= 65 (n,n') Level  
Cross Section

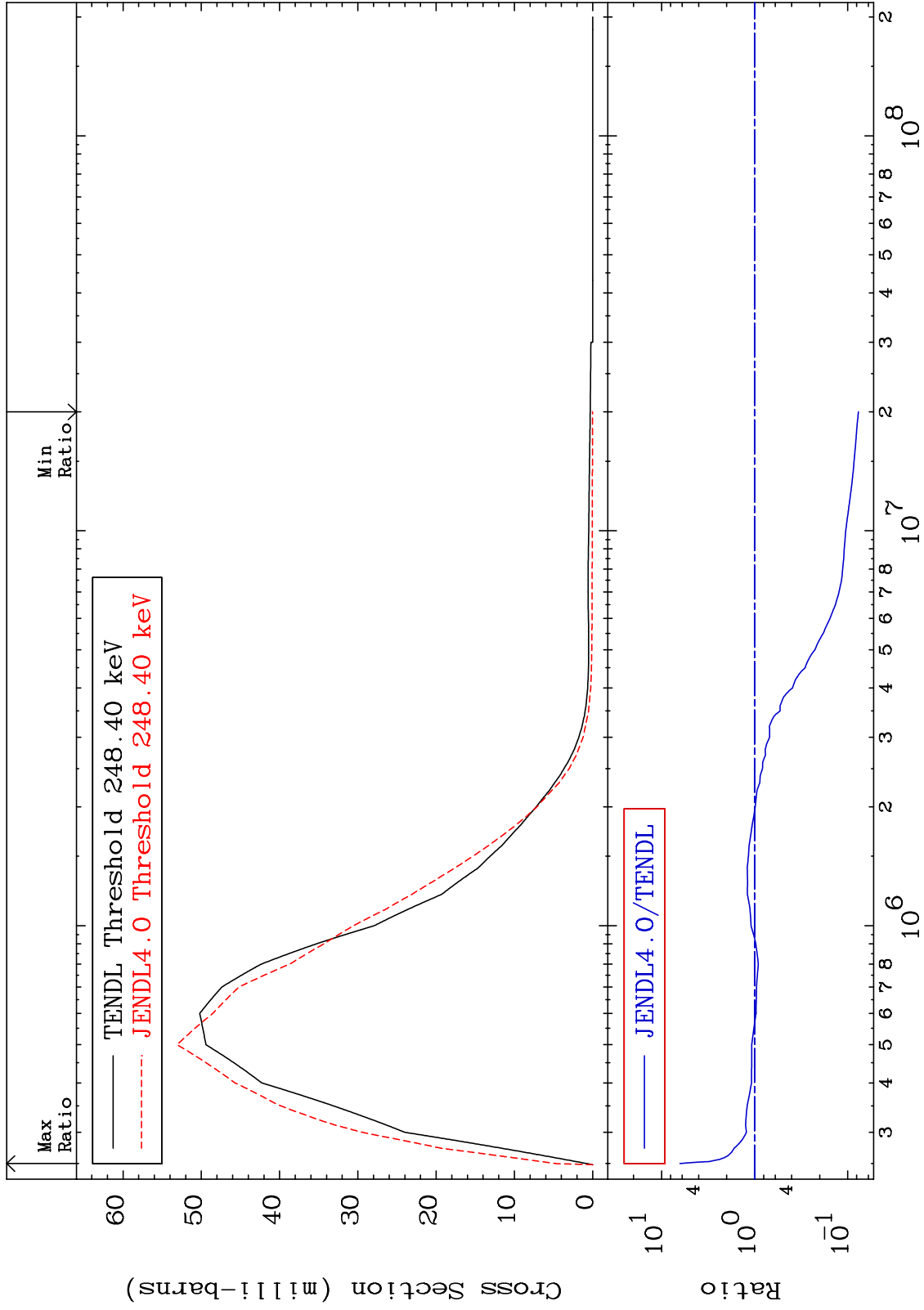
91-Pa-231  
-93.22 To 91.98 %



MAT 9131

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

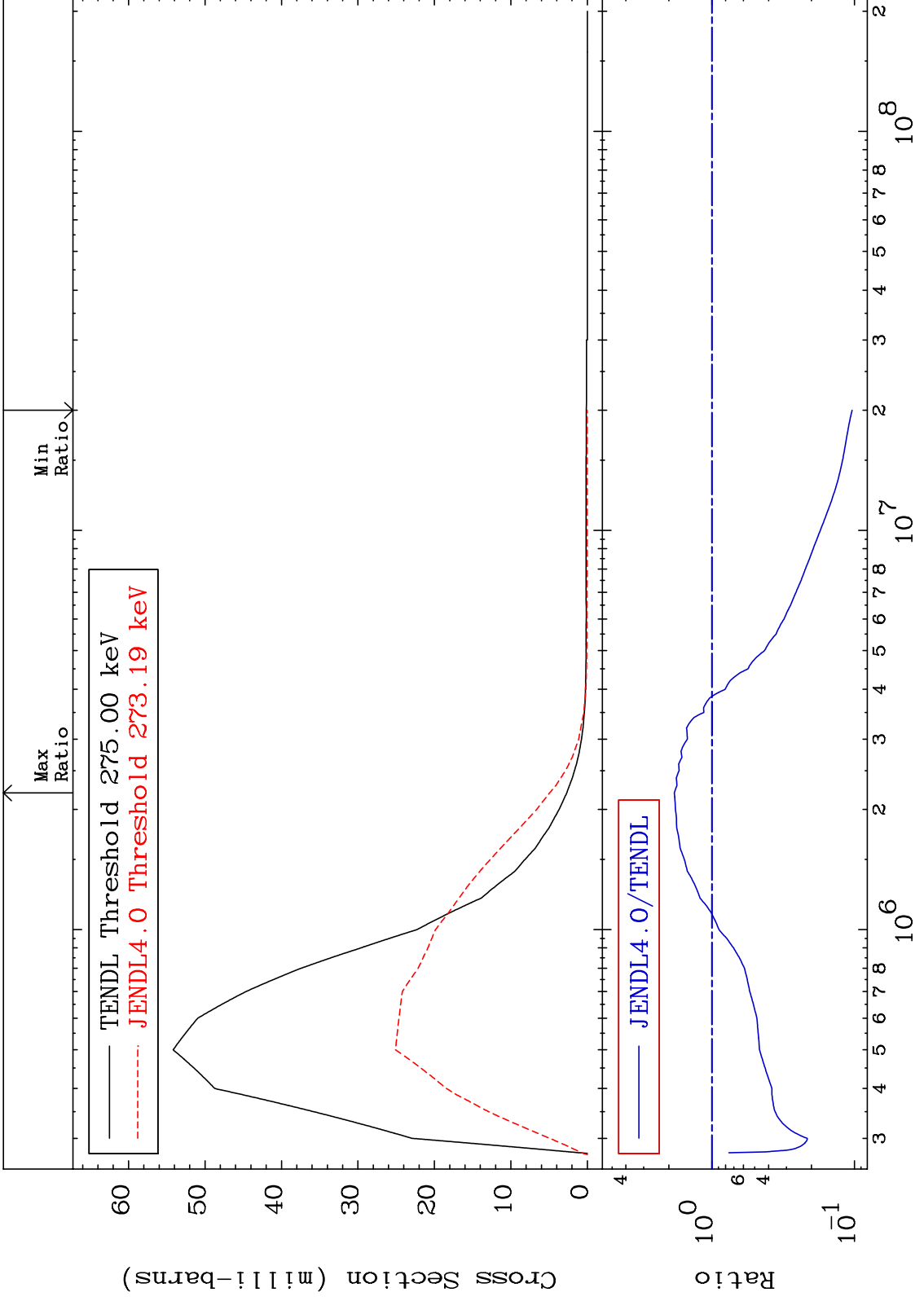
91-Pa-231  
-92.33 To 533.8 %



MAT 9131

MT= 67 (n,n') Level  
Cross Section

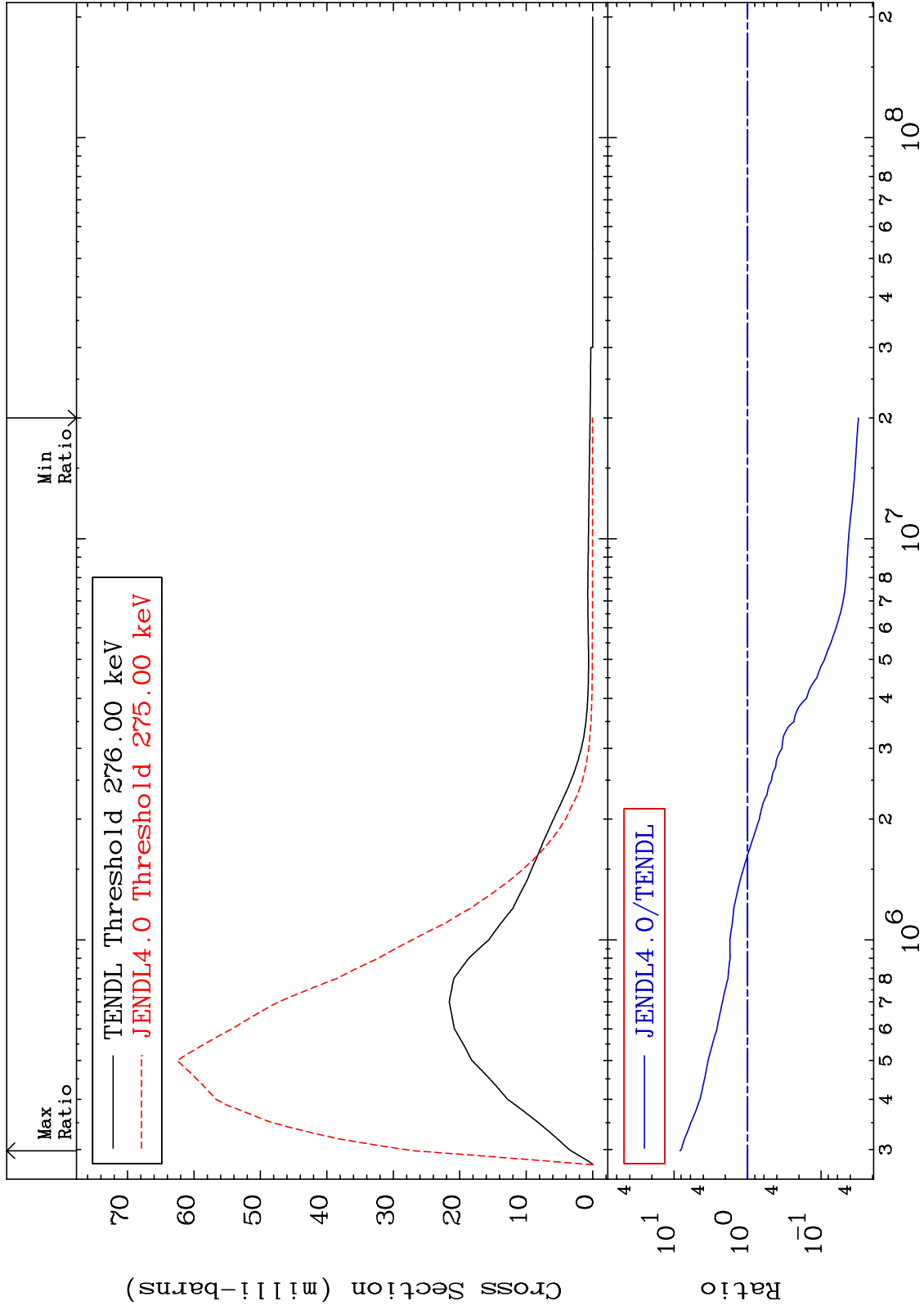
91-Pa-231  
-89.61 To 82.93 %



MAT 9131

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

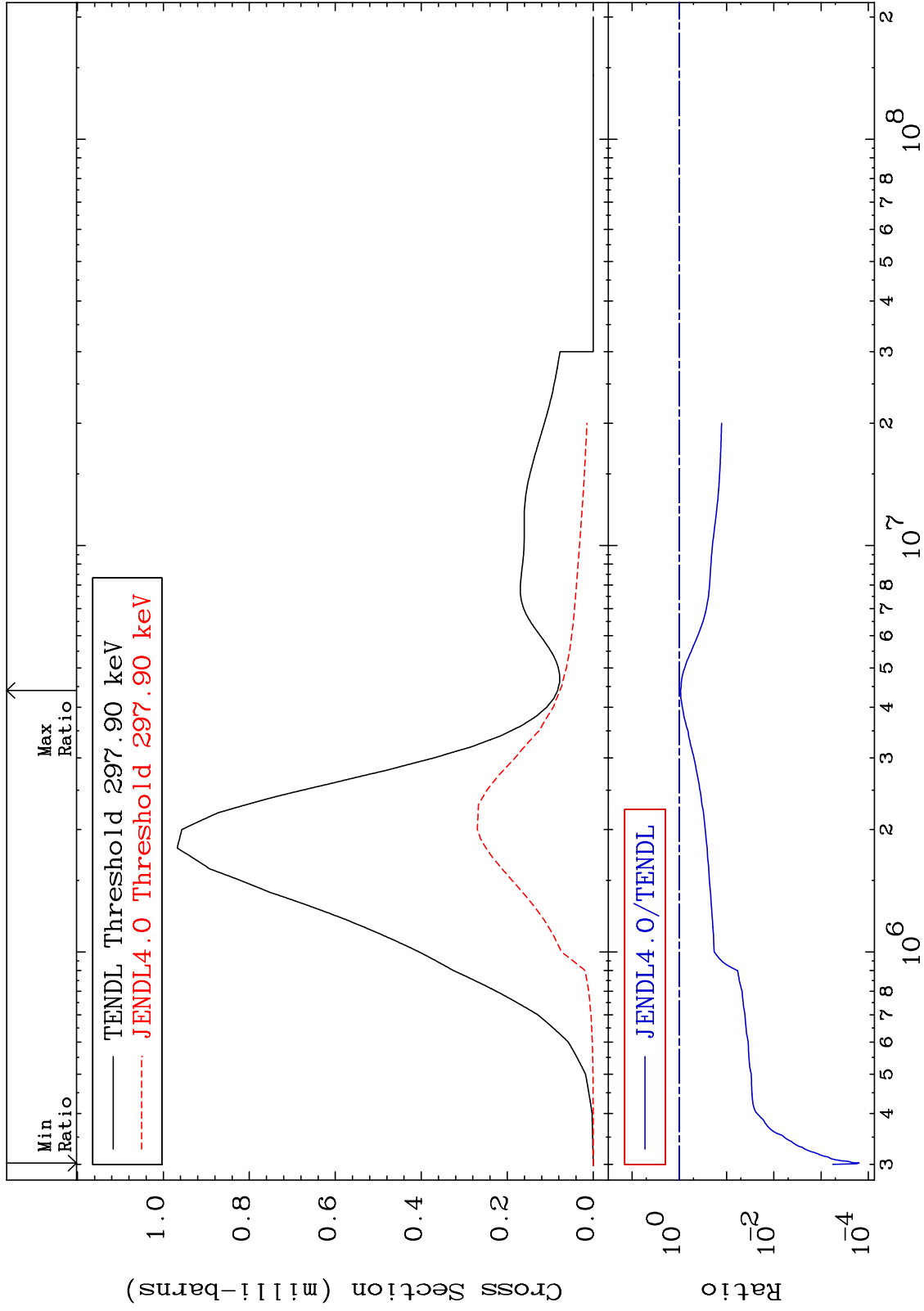
91-Pa-231  
-96.89 To 728.3 %



MAT 9131

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

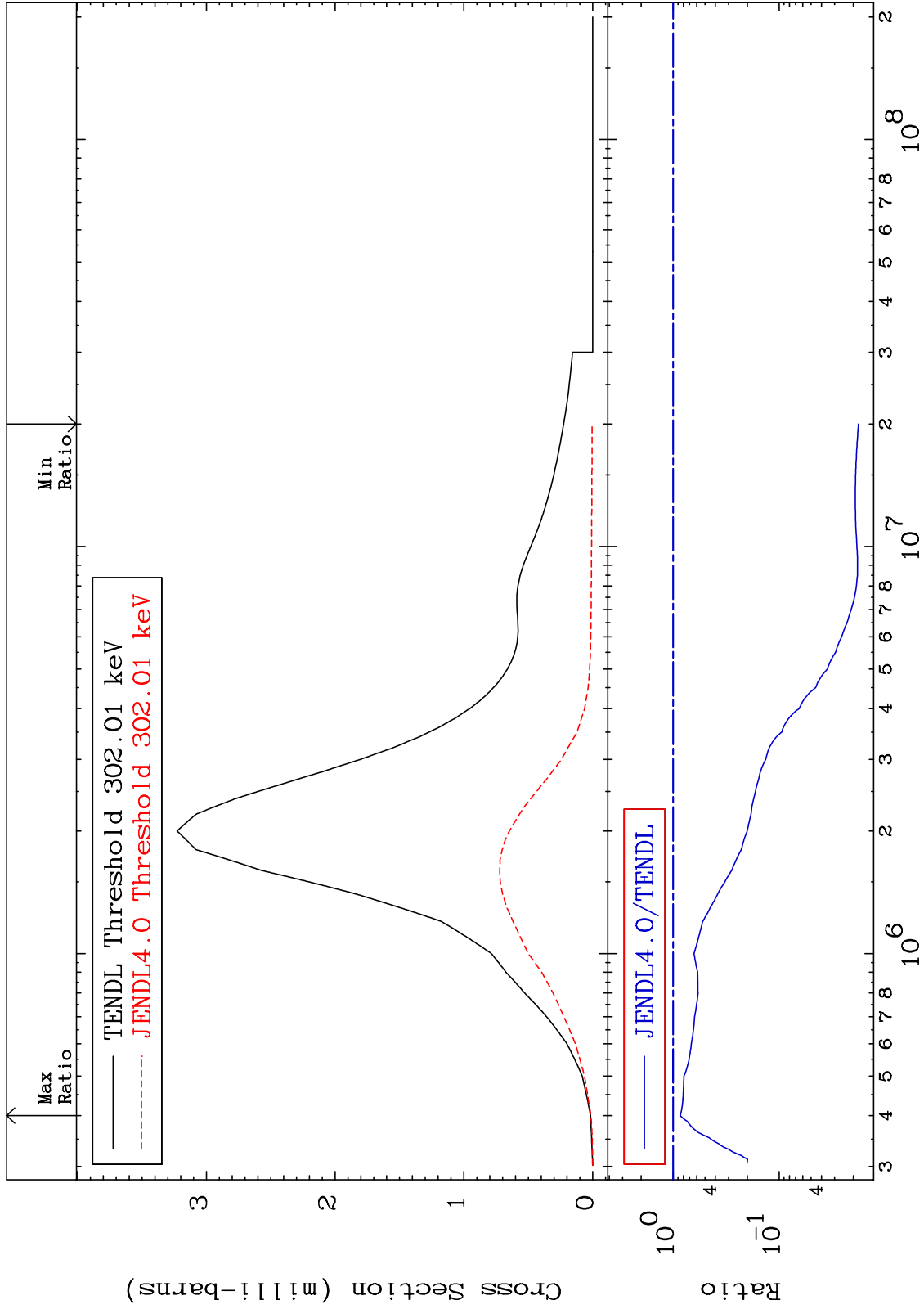
91-Pa-231  
-99.98 To -6.241%



MAT 9131

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

91-Pa-231  
-98.21 To -13.87%



30

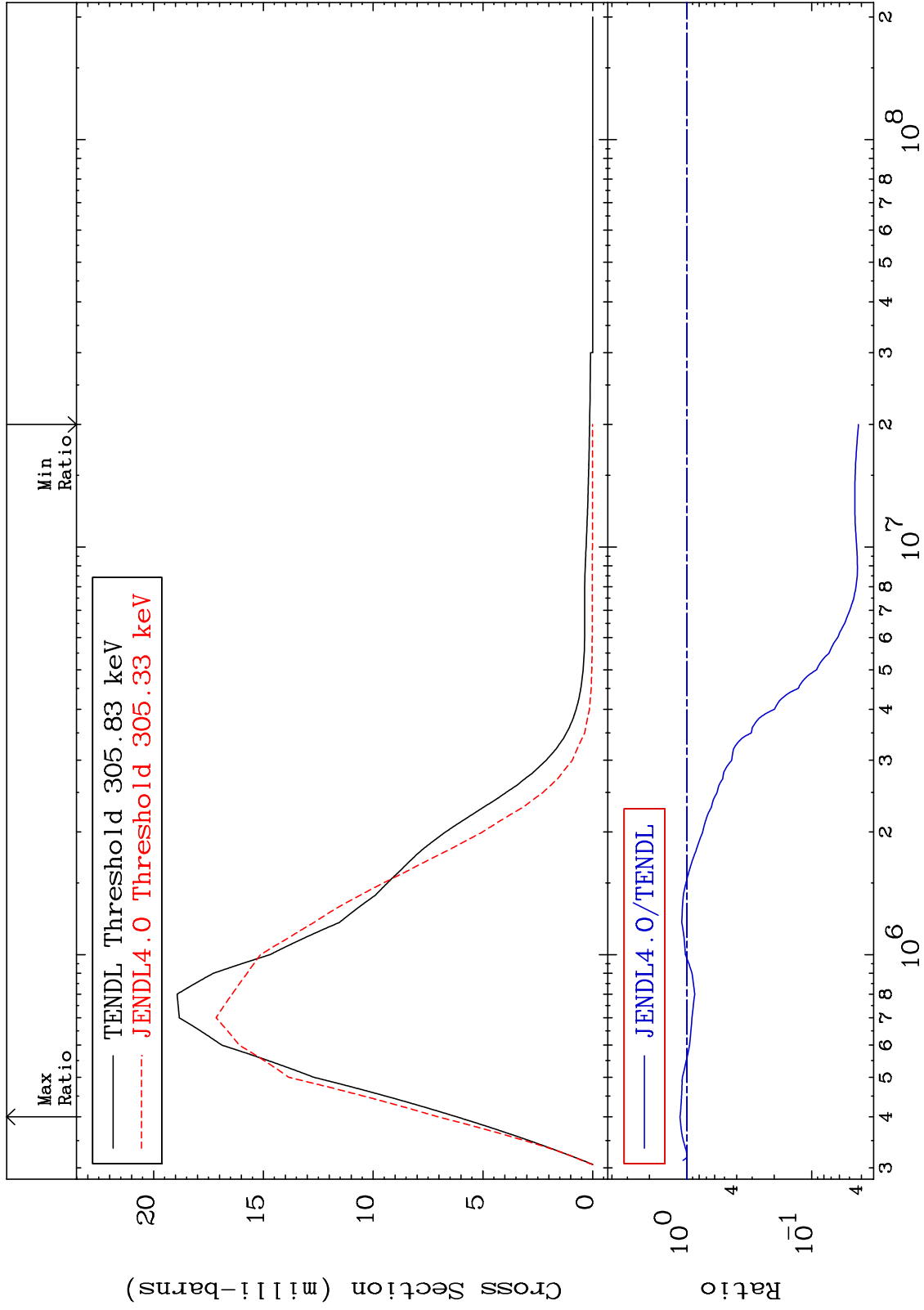
Incident Energy (eV)

91-Pa-231

MAT 9131

MT= 71 (n,n') Level  
Cross Section

91-Pa-231  
-95.77 To 13.73 %

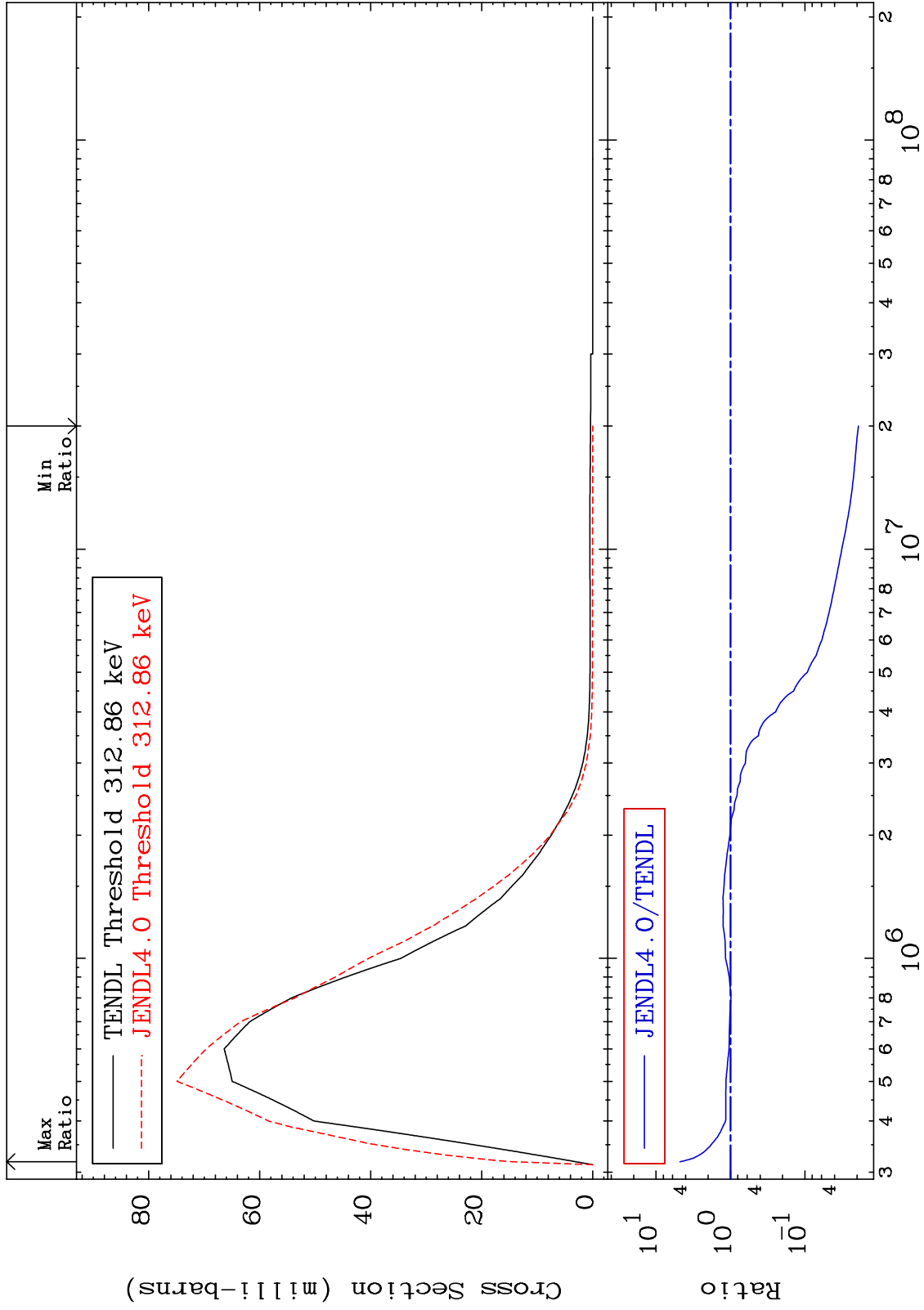




MAT 9131

MT= 72 (n,n') Level  
Cross Section

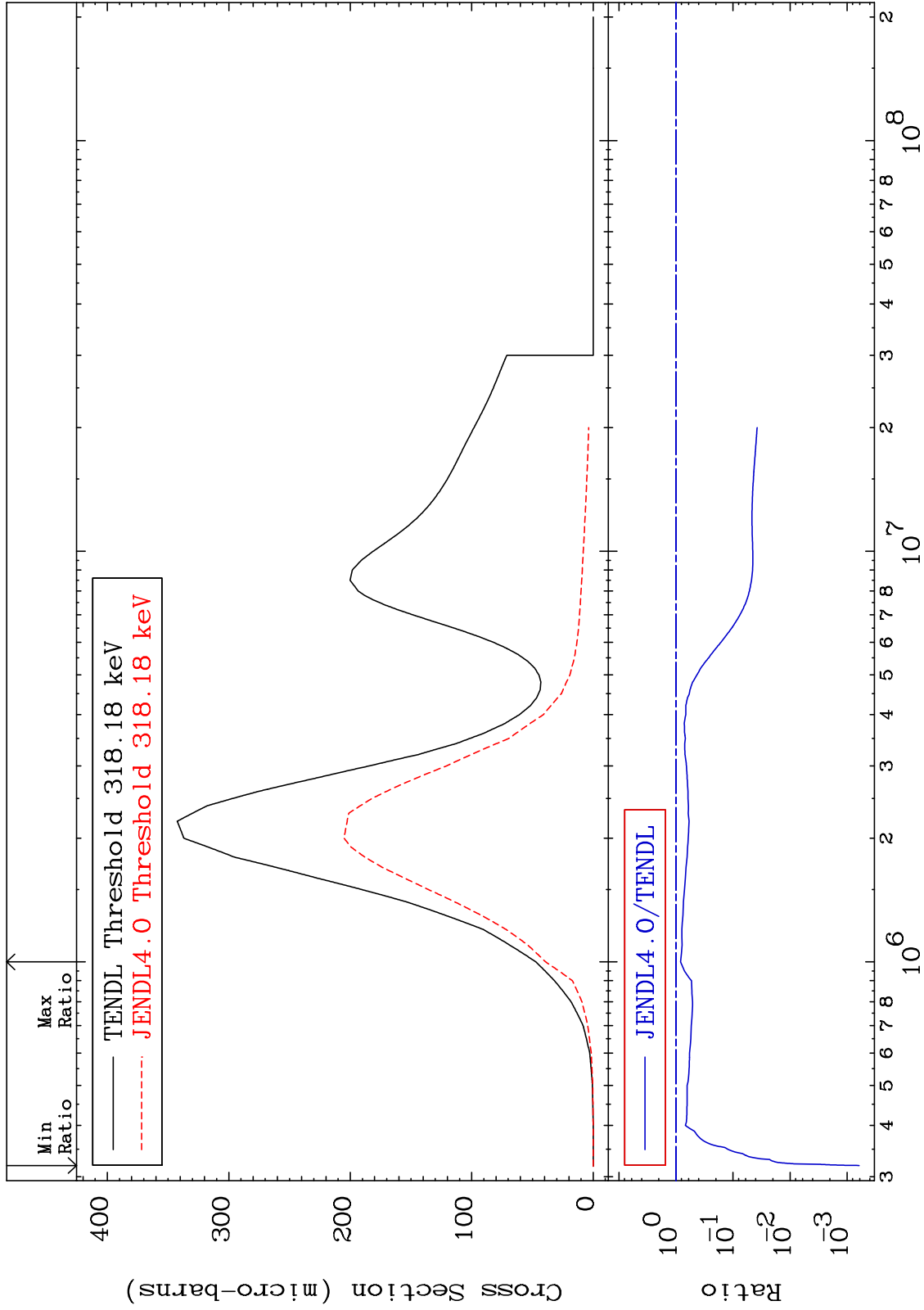
91-Pa-231  
-98.08 To 376.8 %



MAT 9131

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

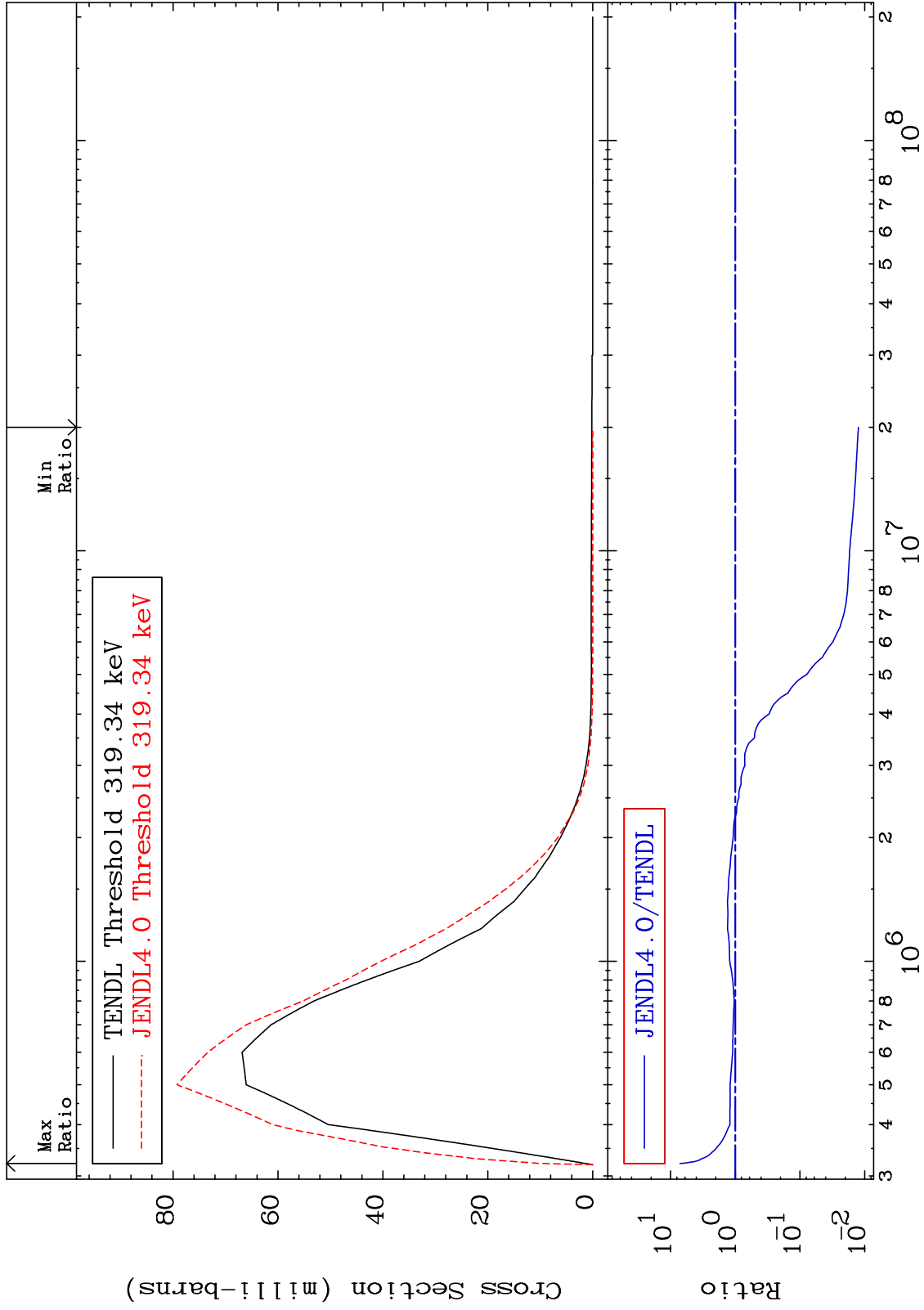
91-Pa-231  
-99.94 To -17.05%



MAT 9131

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

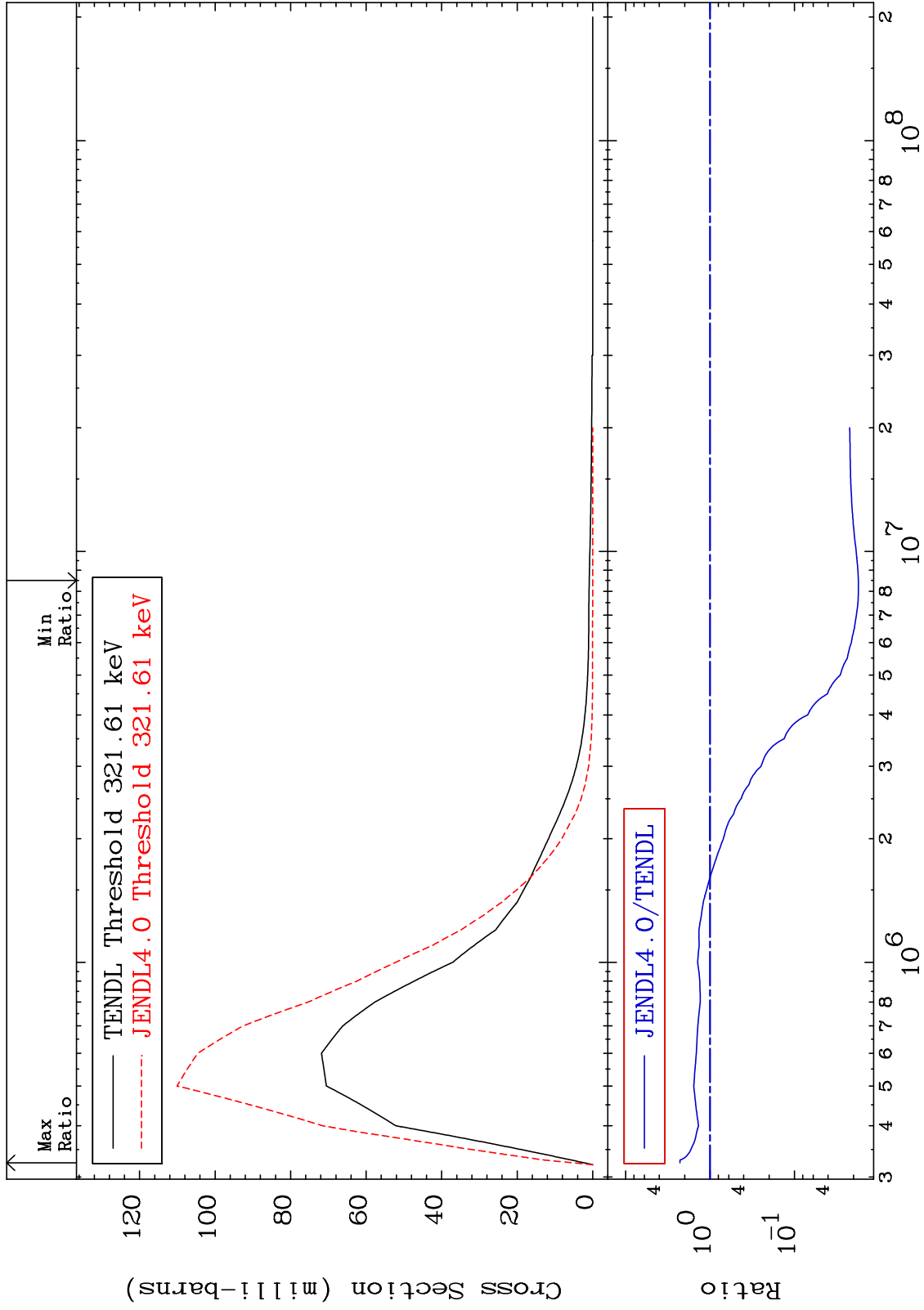
91-Pa-231  
-98.75 To 613.9 %



MAT 9131

MT= 75 (n,n') Level  
Cross Section

91-Pa-231  
-98.25 To 127.2 %



35

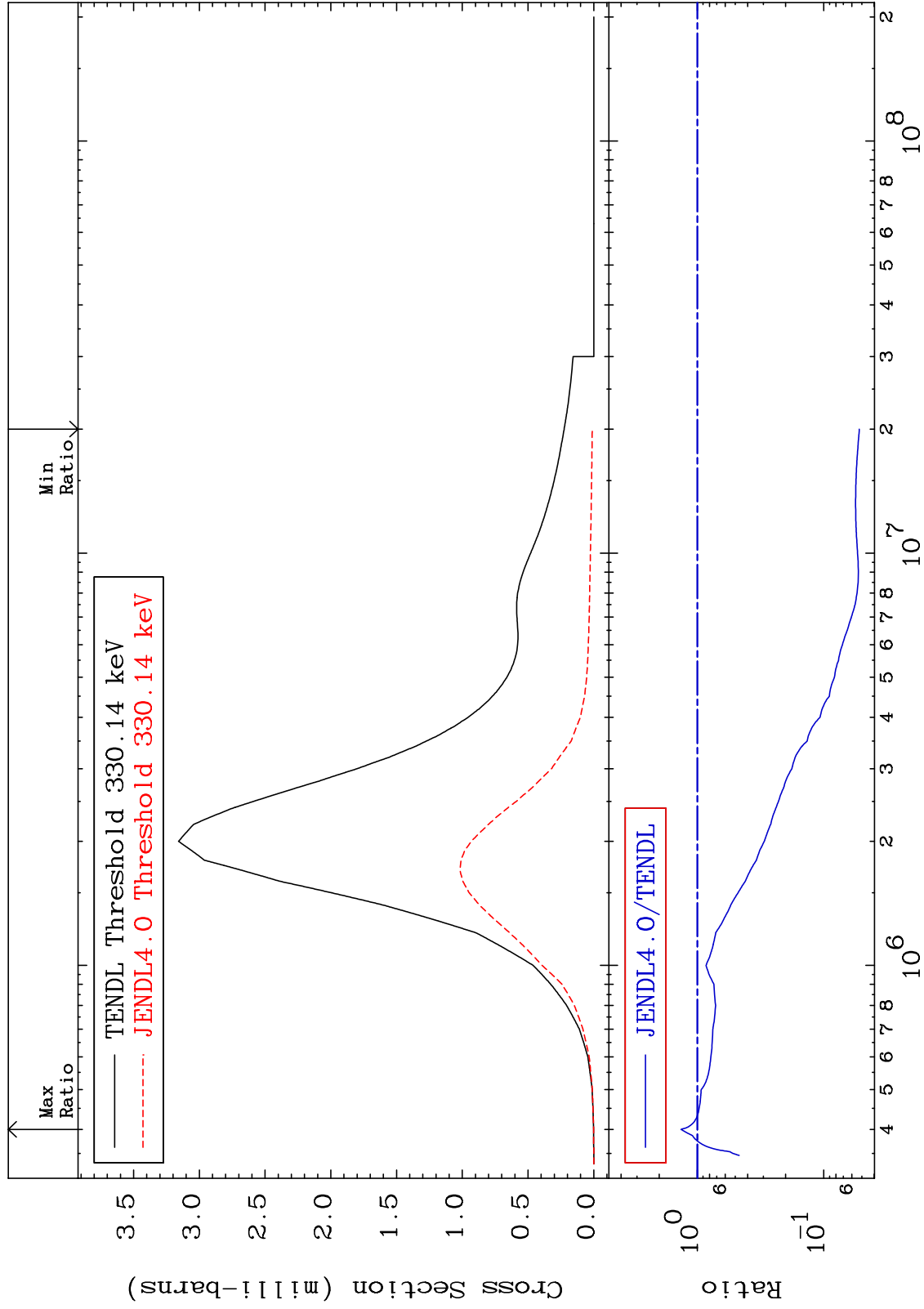
Incident Energy (eV)

91-Pa-231

MAT 9131

MT= 76 (n,n') Level  
Cross Section

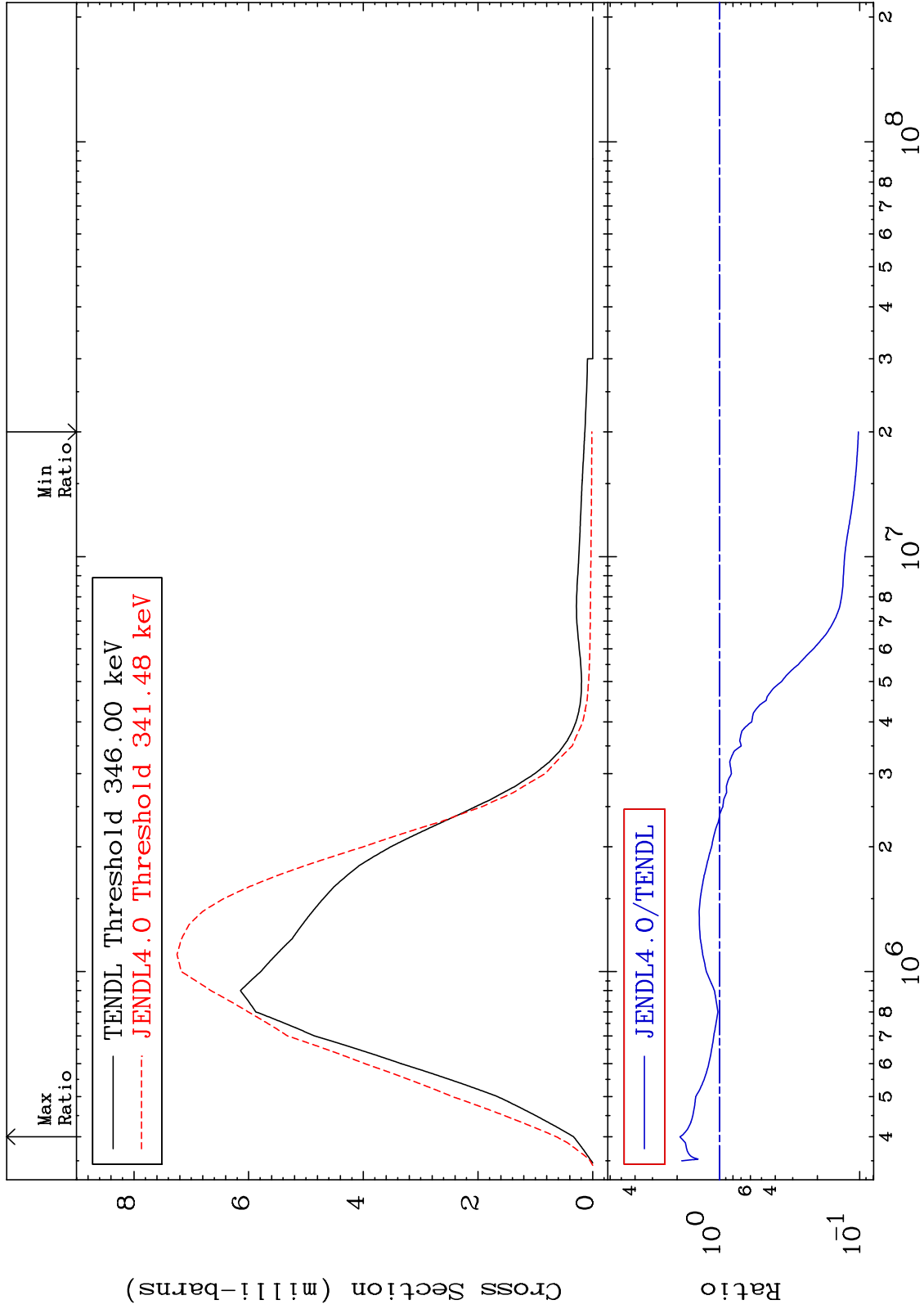
91-Pa-231  
-94.77 To 34.26 %



MAT 9131

MT= 77 (n,n') Level  
Cross Section

91-Pa-231  
-89.80 To 90.79 %



37

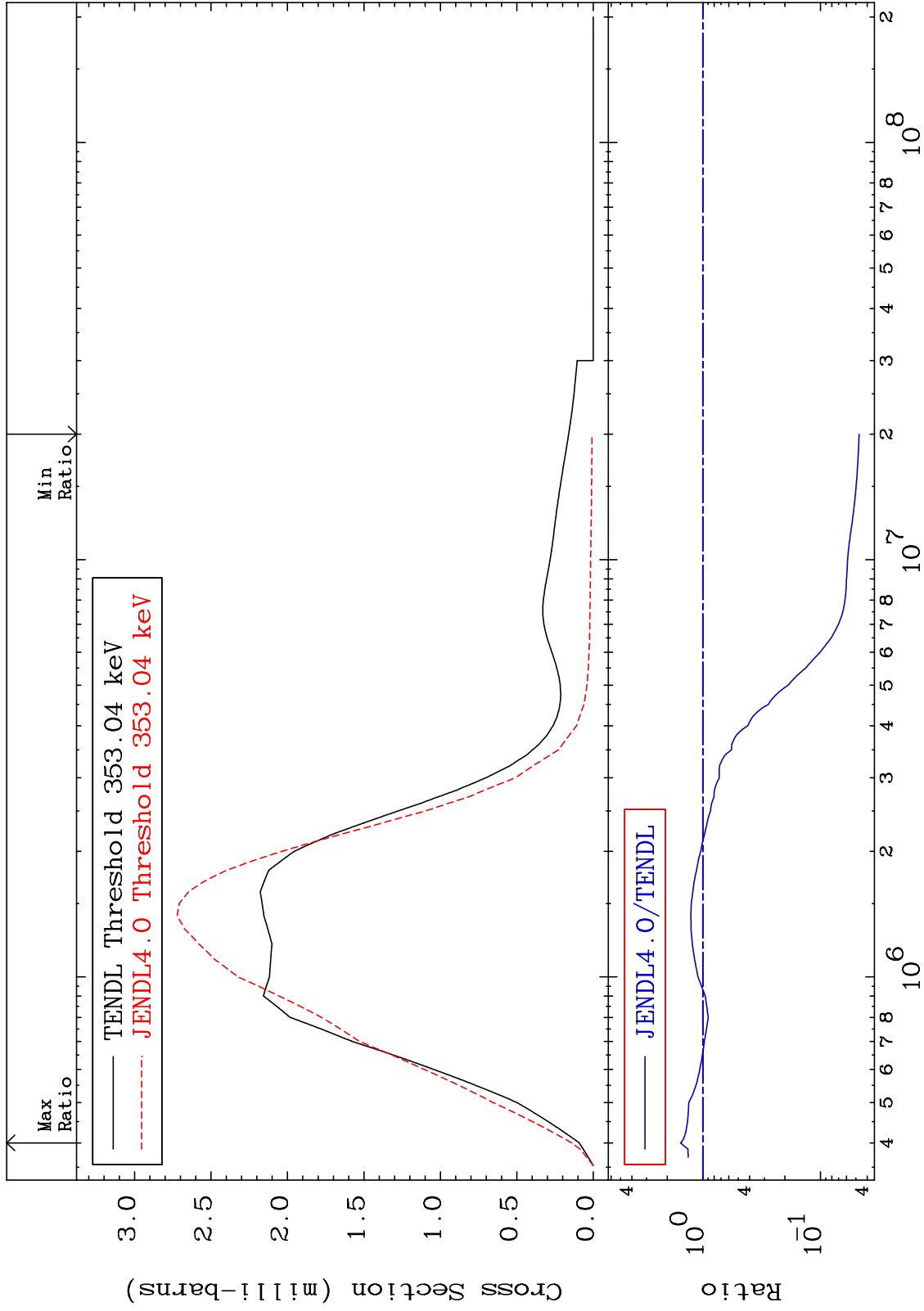
Incident Energy (eV)

91-Pa-231

MAT 9131

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

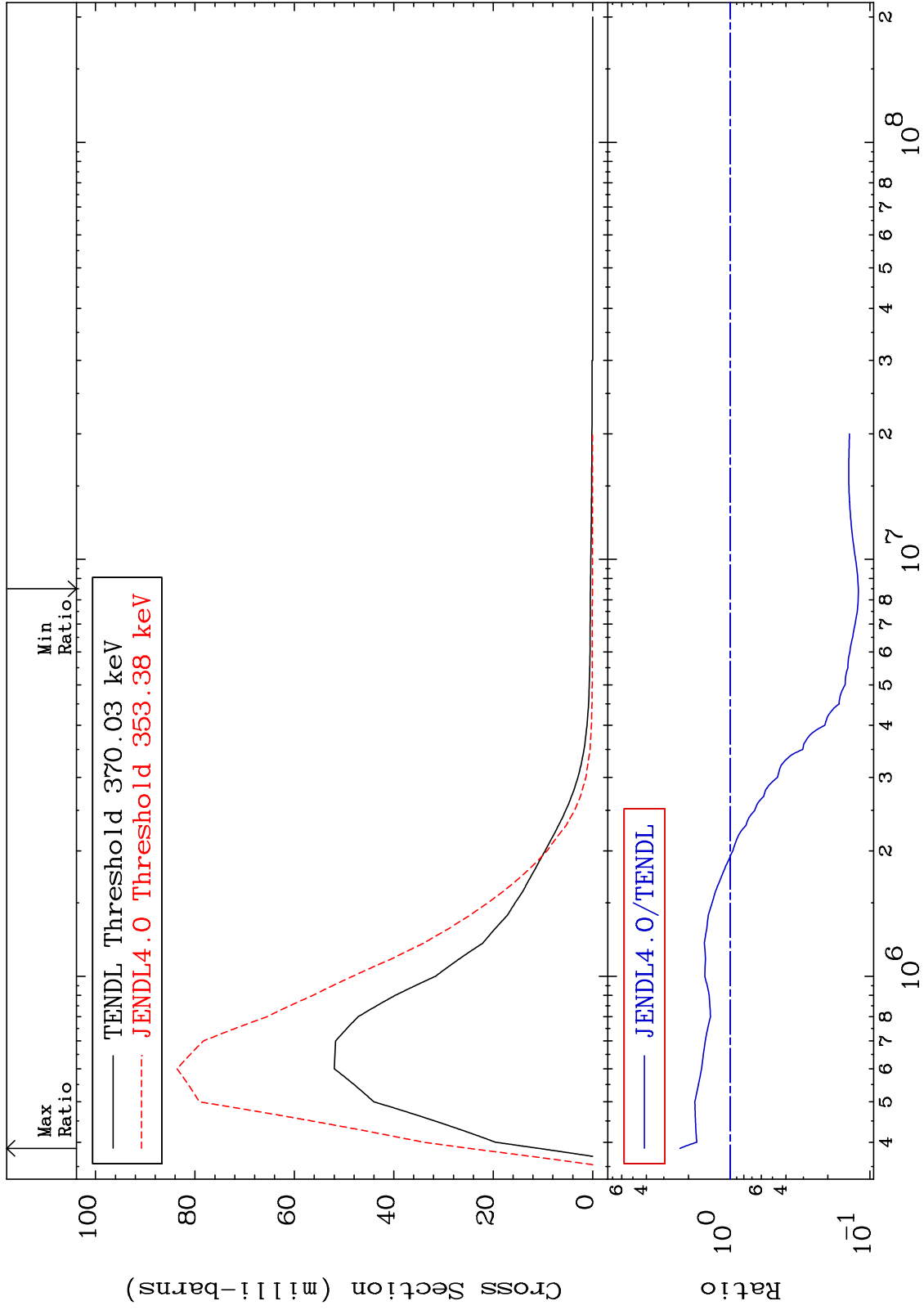
91-Pa-231  
-95.31 To 54.11 %



MAT 9131

MT= 79 (n,n') Level  
Cross Section

91-Pa-231  
-87.91 To 129.6 %

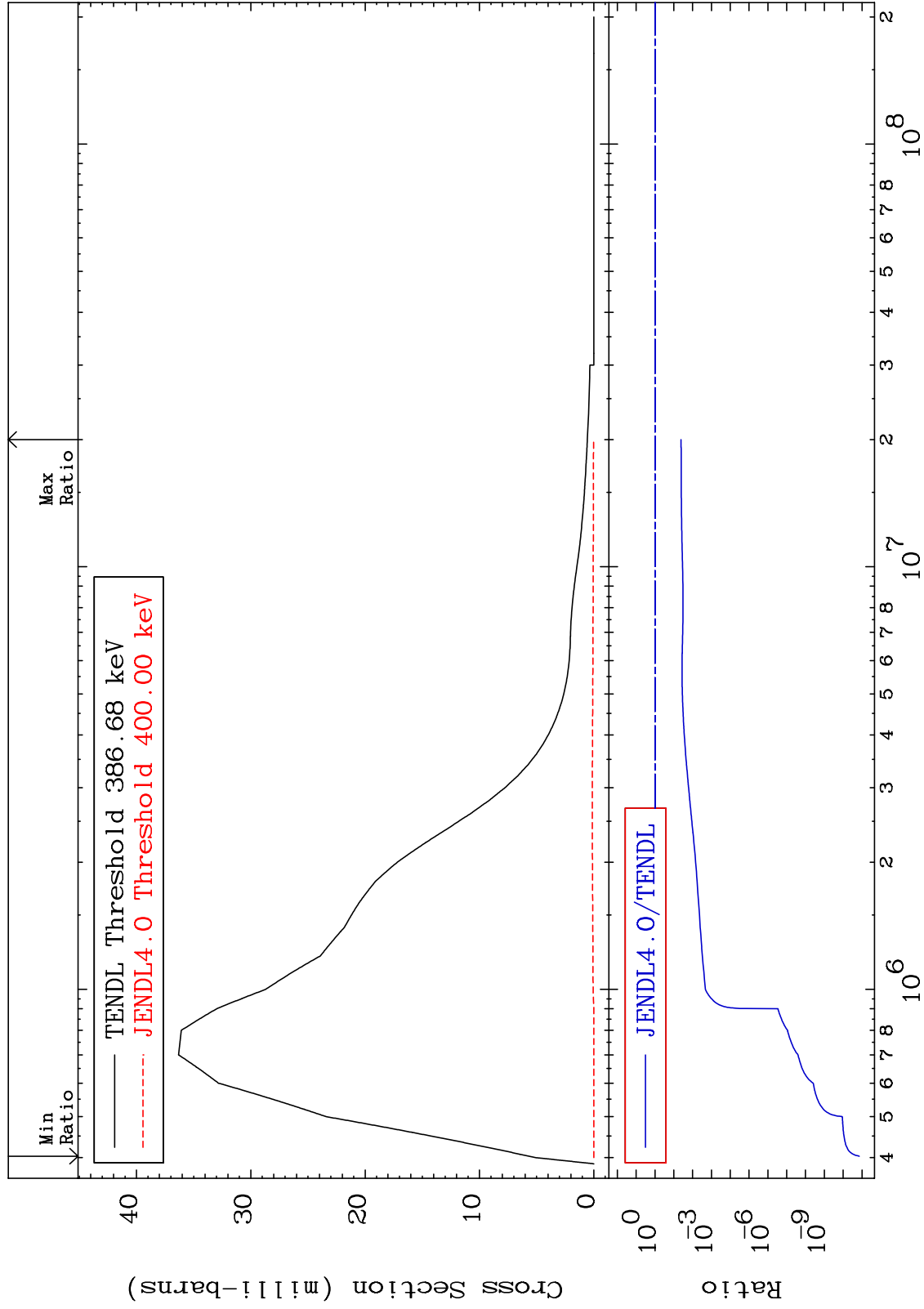




MAT 9131

MT= 80 (n,n') Level  
Cross Section

91-Pa-231  
-100.0 To -95.90%



40

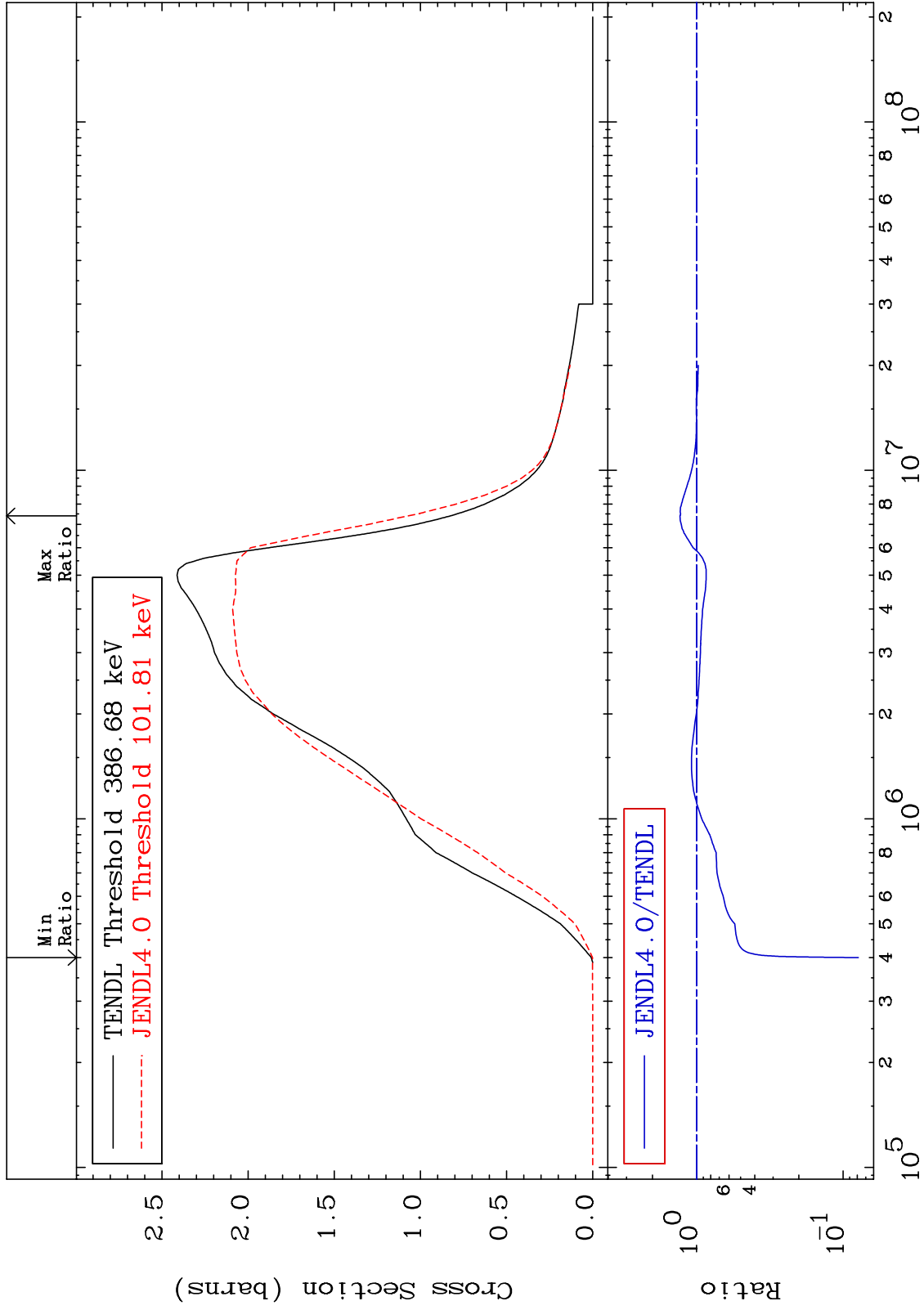
Incident Energy (eV)

91-Pa-231

MAT 9131

(n,n') Continuum  
Cross Section

91-Pa-231  
-92.15 To 29.56 %



41

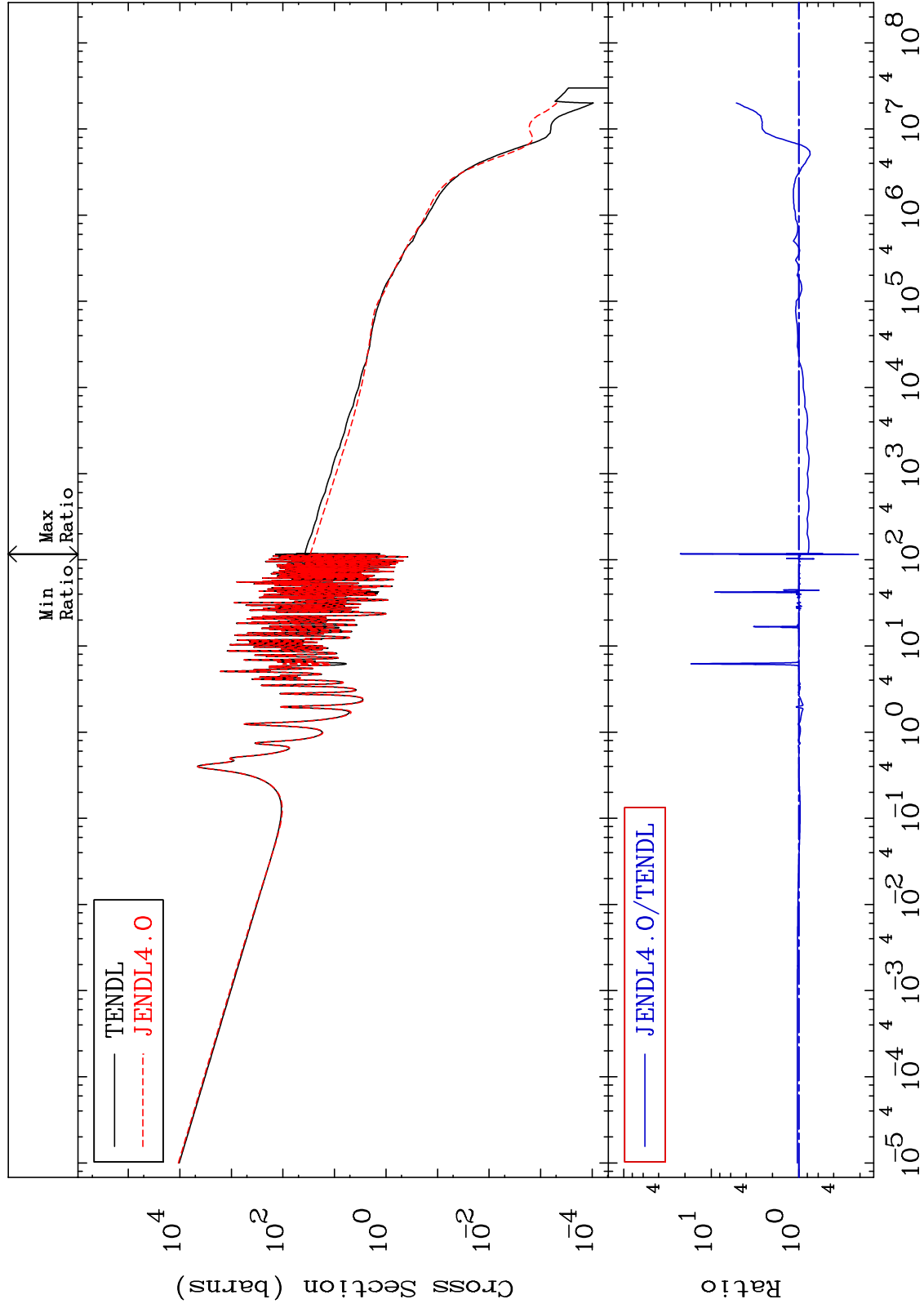
Incident Energy (eV)

91-Pa-231

MAT 9131

(n,  $\gamma$ )  
Cross Section

91-Pa-231  
-79.18 To 2148. %



42

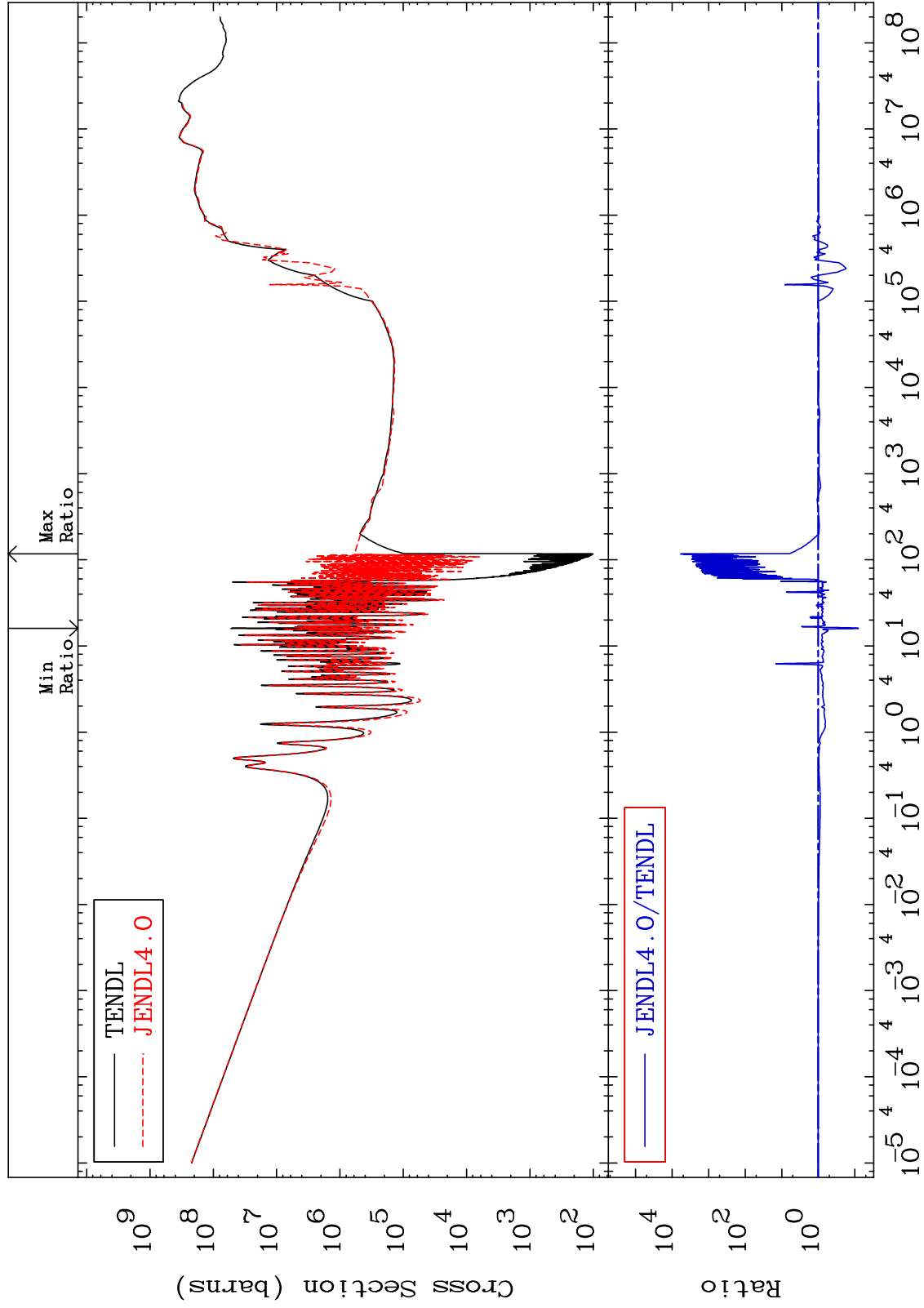
Incident Energy (eV)

91-Pa-231

MAT 9131

Kerma total (eV-barns)  
Cross Section

91-Pa-231  
-92.07 To 9999. %



43

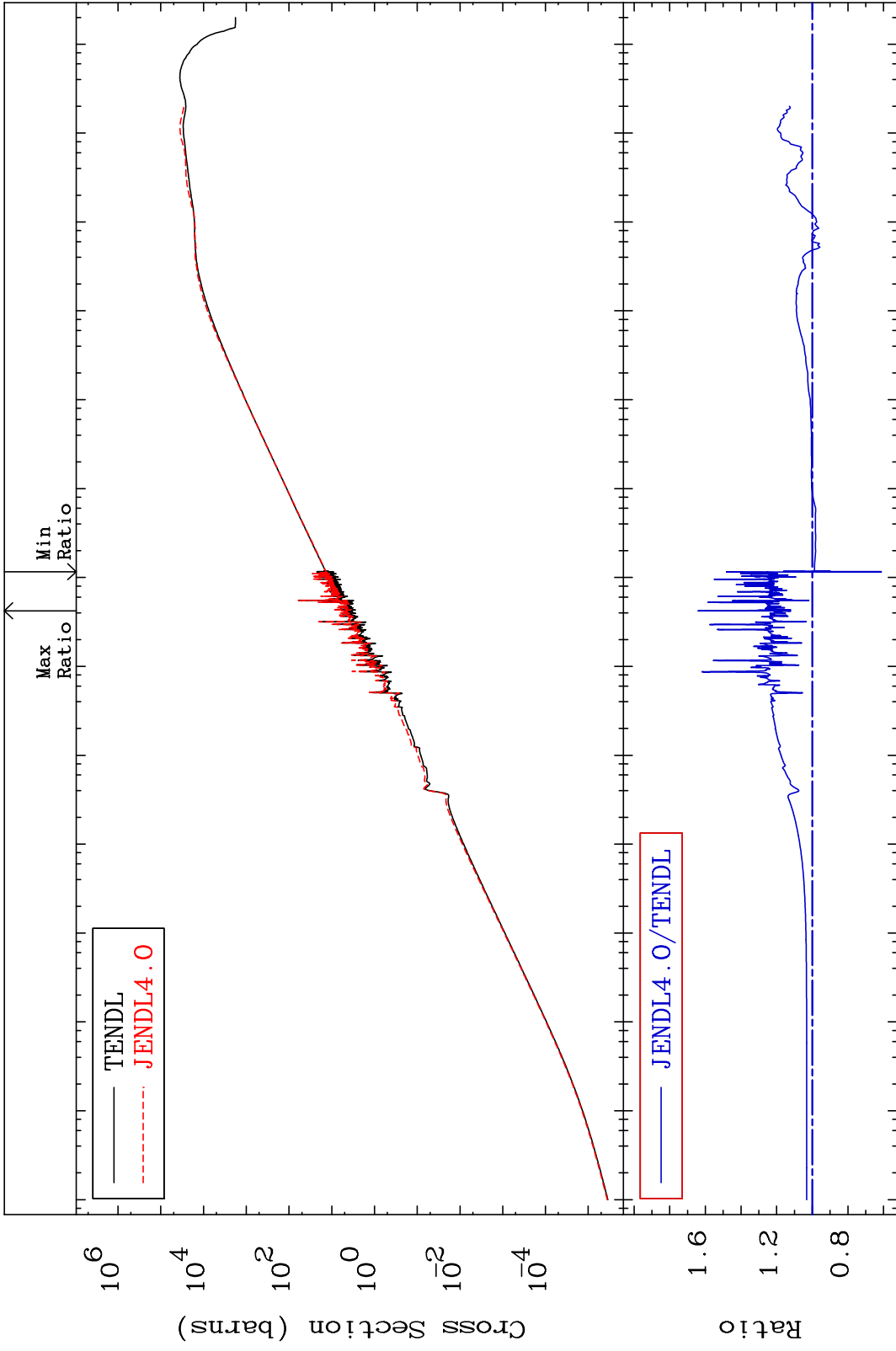
Incident Energy (eV)

91-Pa-231

MAT 9131

Kerma elastic  
Cross Section

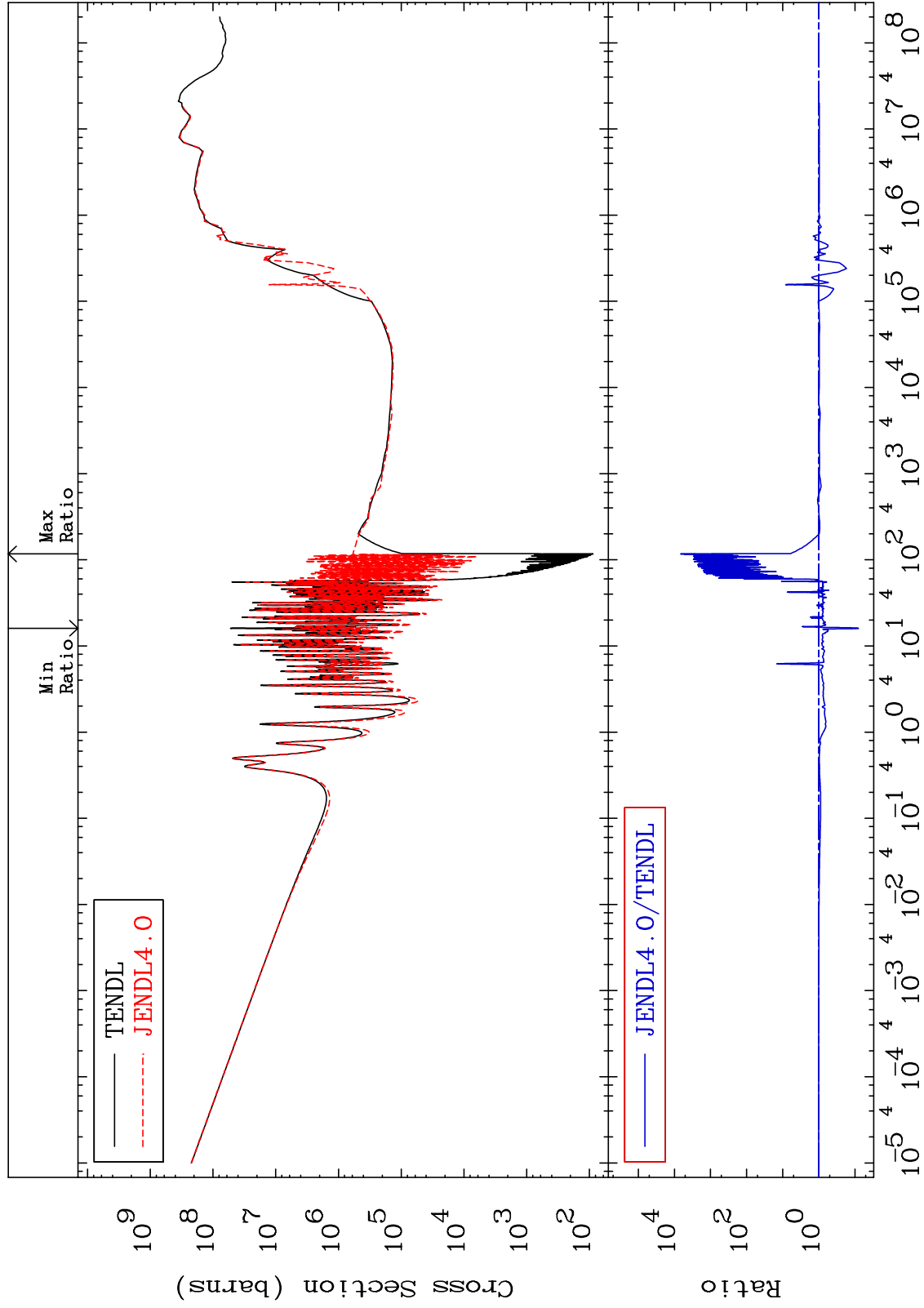
91-Pa-231  
-38.86 To 64.25 %



MAT 9131

Kerma non-elastic (all but mt2)  
Cross Section

91-Pa-231  
-92.07 To 9999. %



45

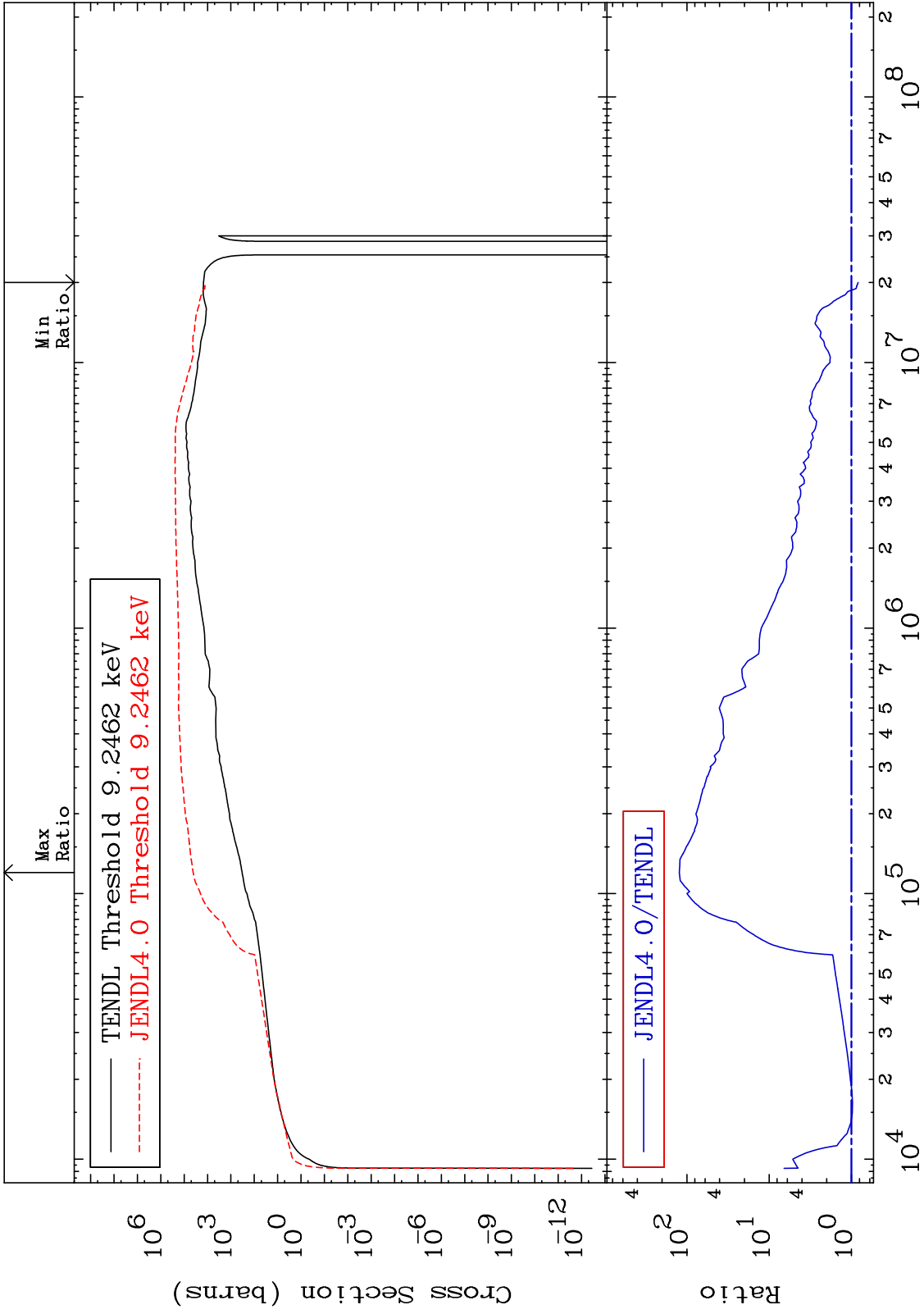
Incident Energy (eV)

91-Pa-231

MAT 9131

Kerma inelastic (mt51-91)  
Cross Section

91-Pa-231  
-17.24 To 9999. %



46

Incident Energy (eV)

91-Pa-231

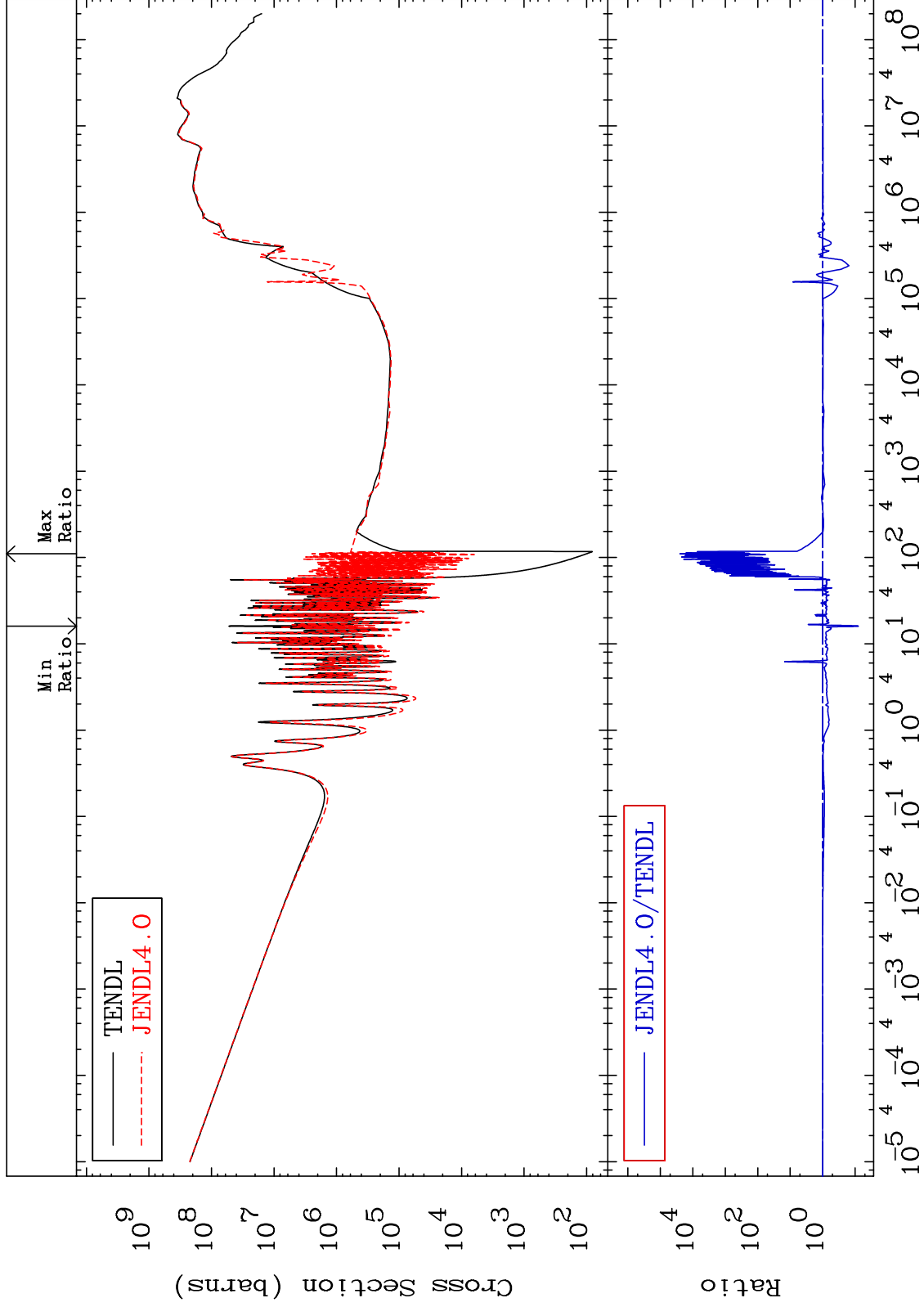
MAT 9131

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

91-Pa-231

-92.07 To 9999. %

Cross Section



47

Incident Energy (eV)

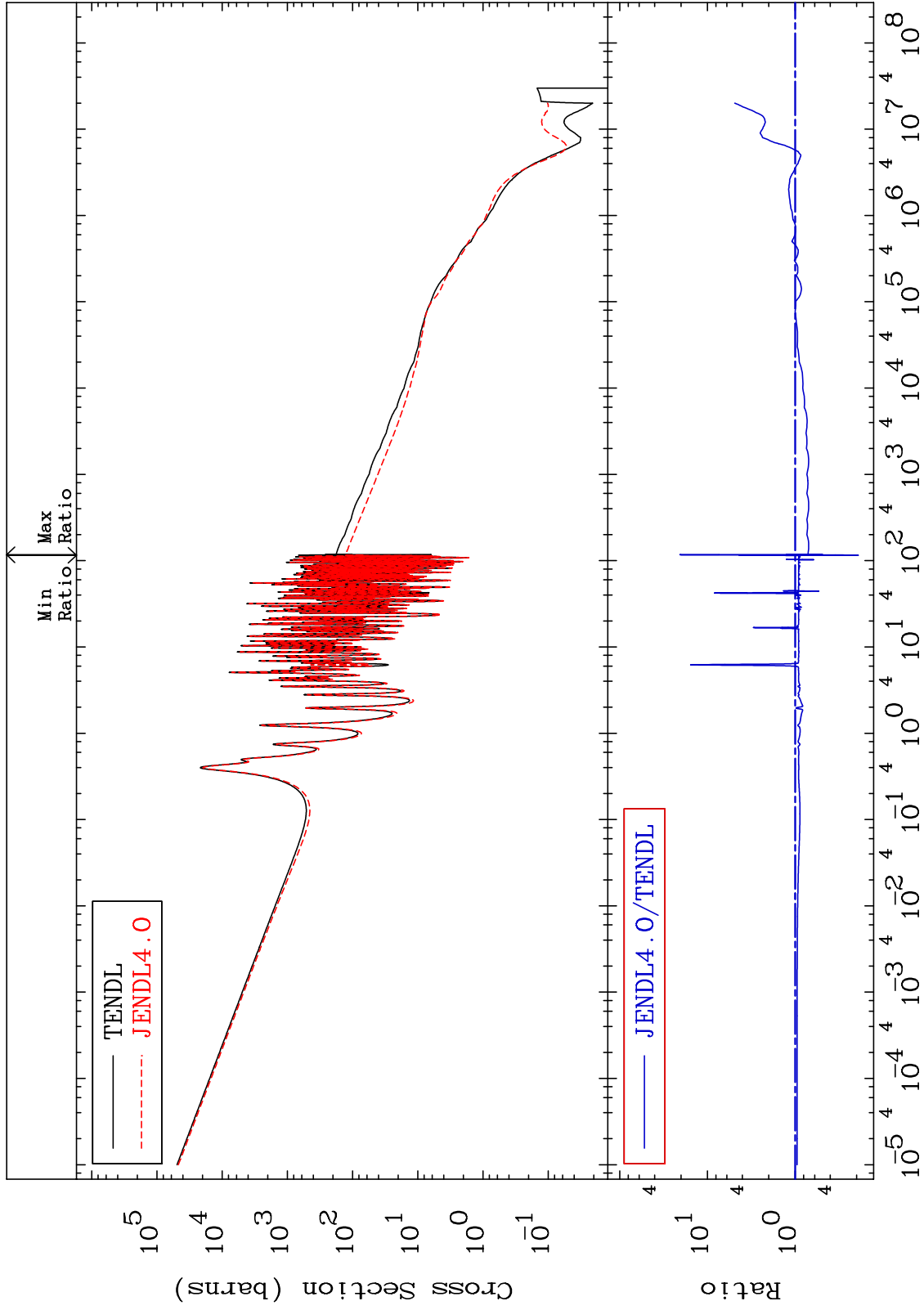
91-Pa-231



MAT 9131

Kerma capture (mt102)  
Cross Section

91-Pa-231  
-80.96 To 1956. %



48

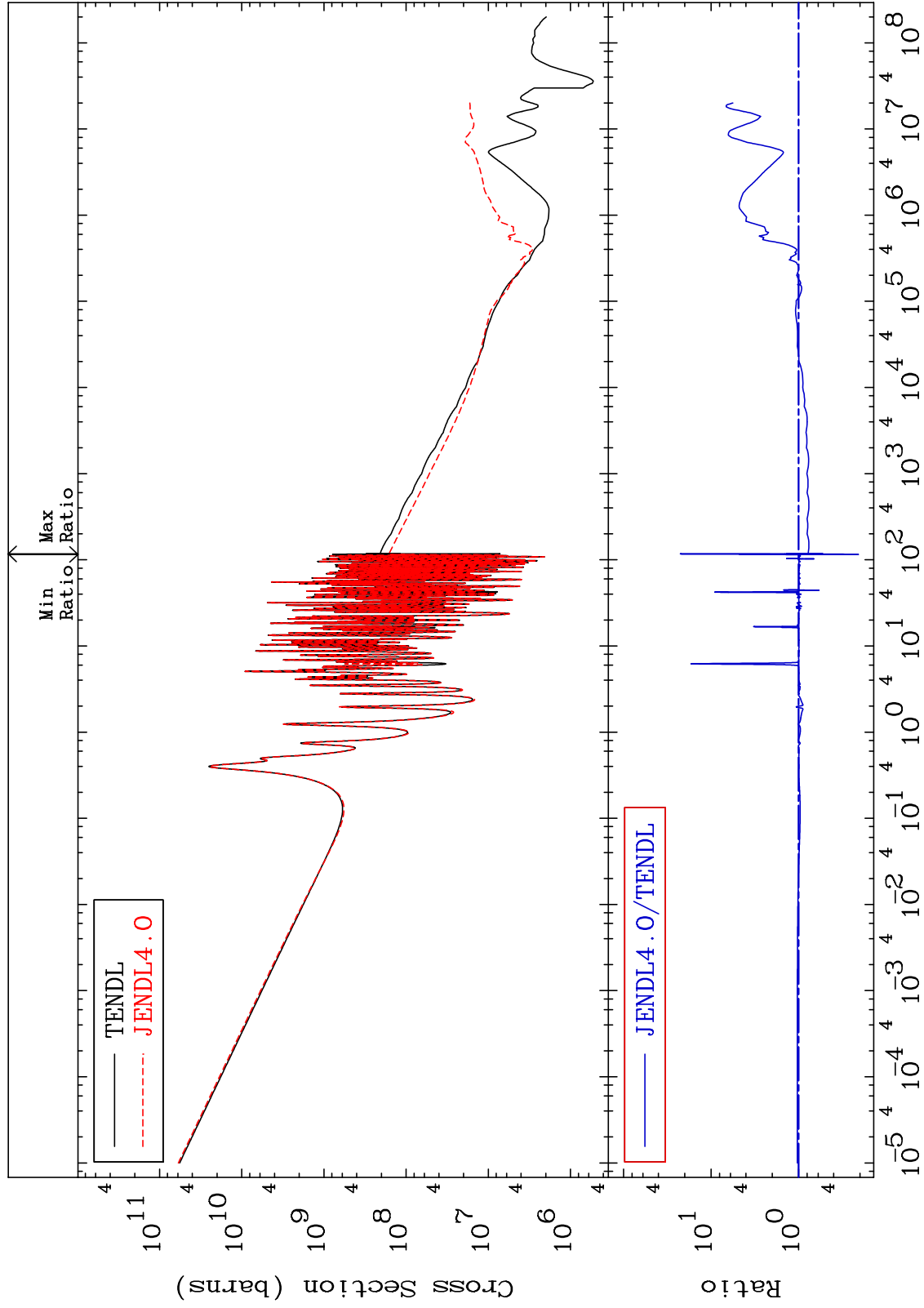
Incident Energy (eV)

91-Pa-231

MAT 9131

Total photon (eV-barns)  
Cross Section

91-Pa-231  
-79.25 To 2140. %



49

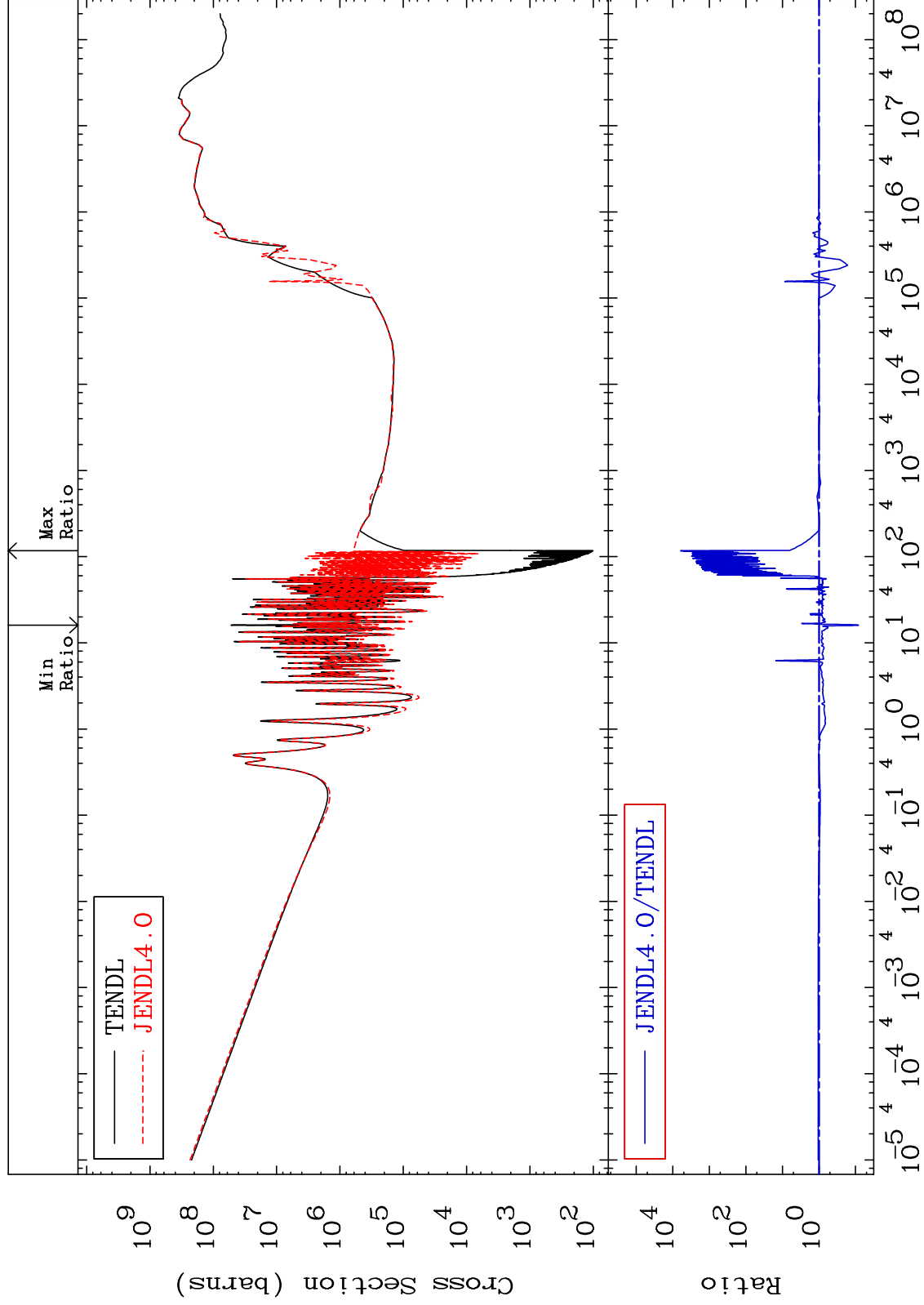
Incident Energy (eV)

91-Pa-231

MAT 9131

Total kinematic kerma (high limit)  
Cross Section

91-Pa-231  
-91.73 To 9999. %



50

Incident Energy (eV)

91-Pa-231

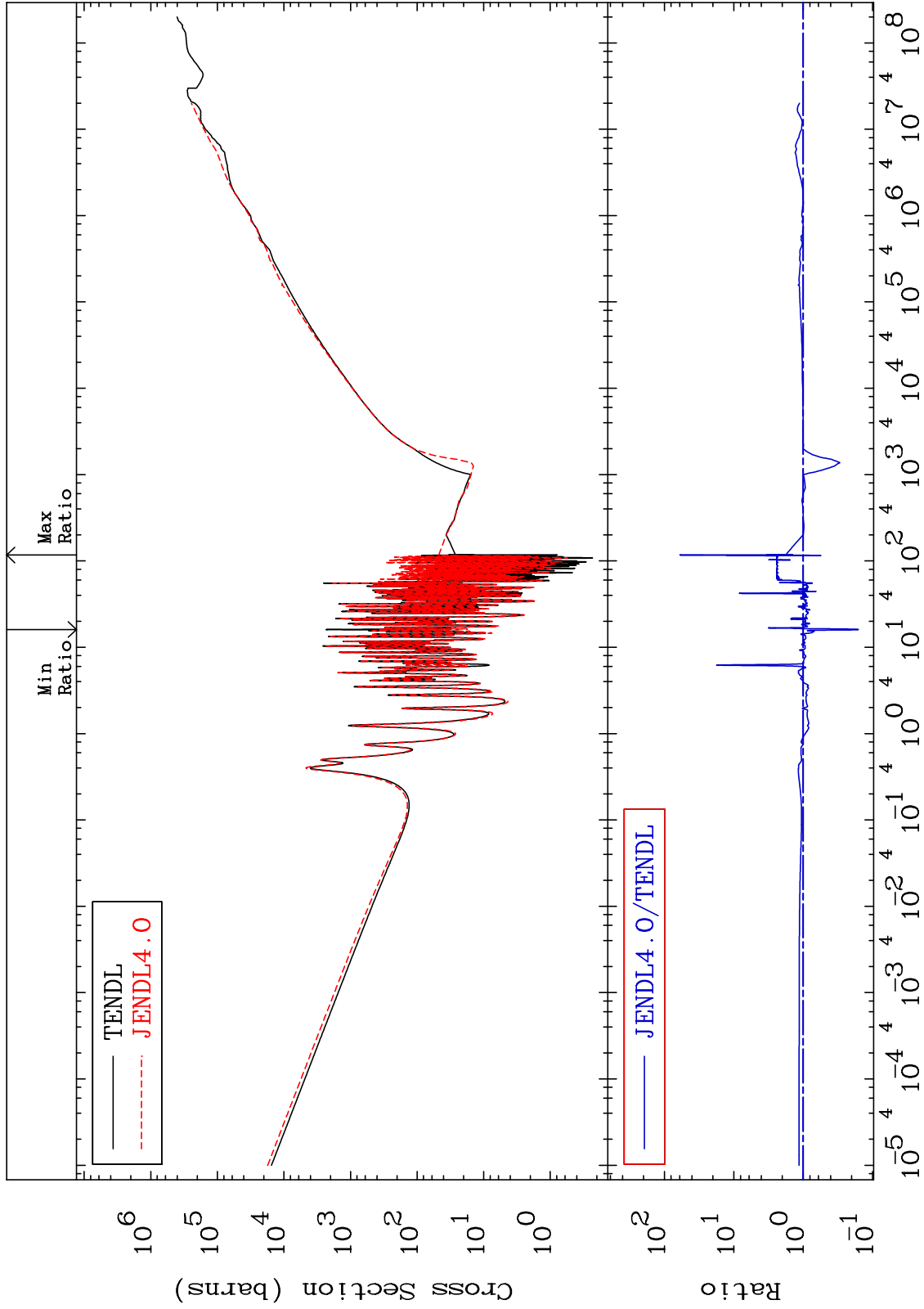
MAT 9131

Dpa total (eV-barns)

91-Pa-231

-84.05 To 5853. %

Cross Section



51

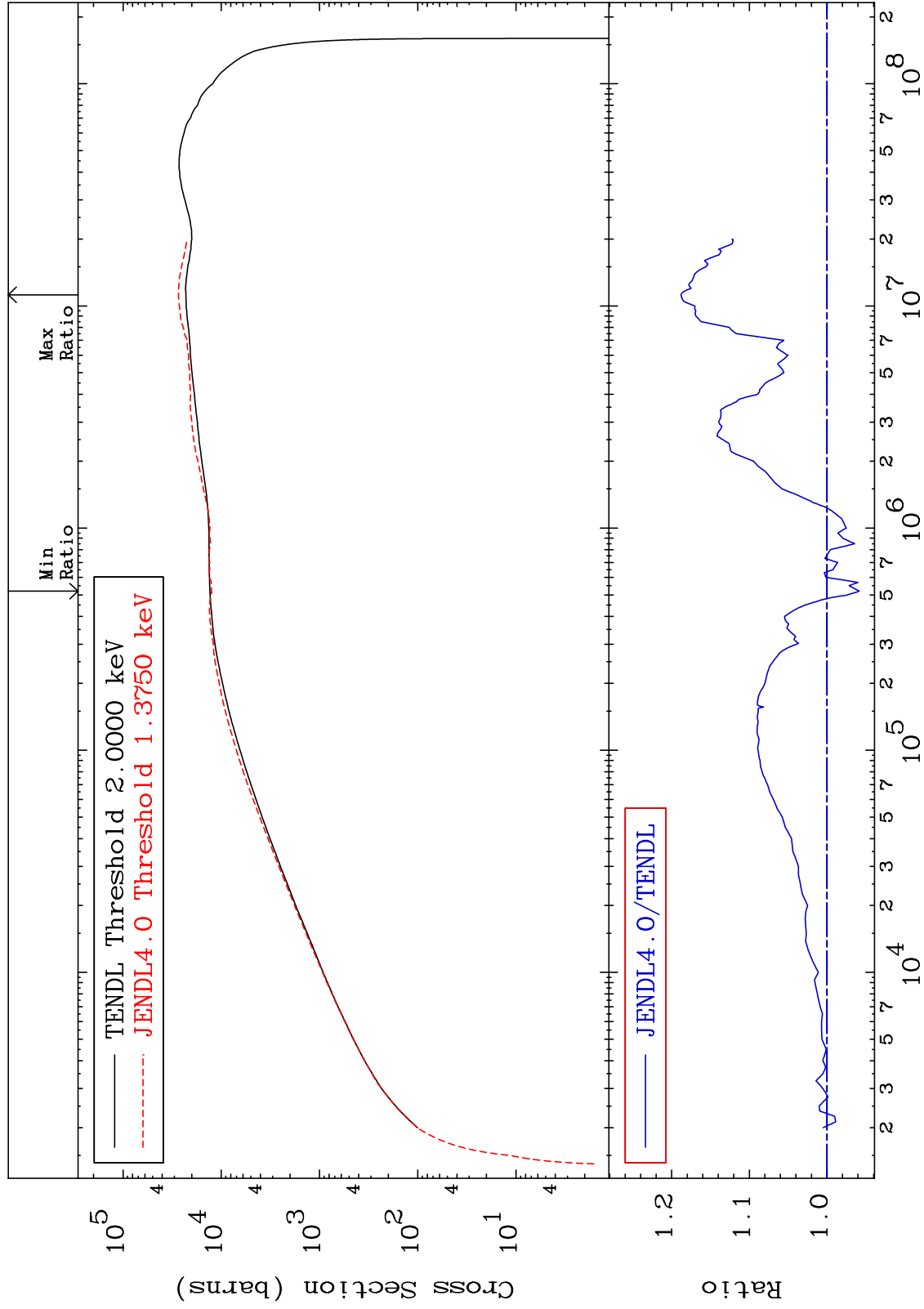
Incident Energy (eV)

91-Pa-231

MAT 9131

Dpa elastic (mt2)  
Cross Section

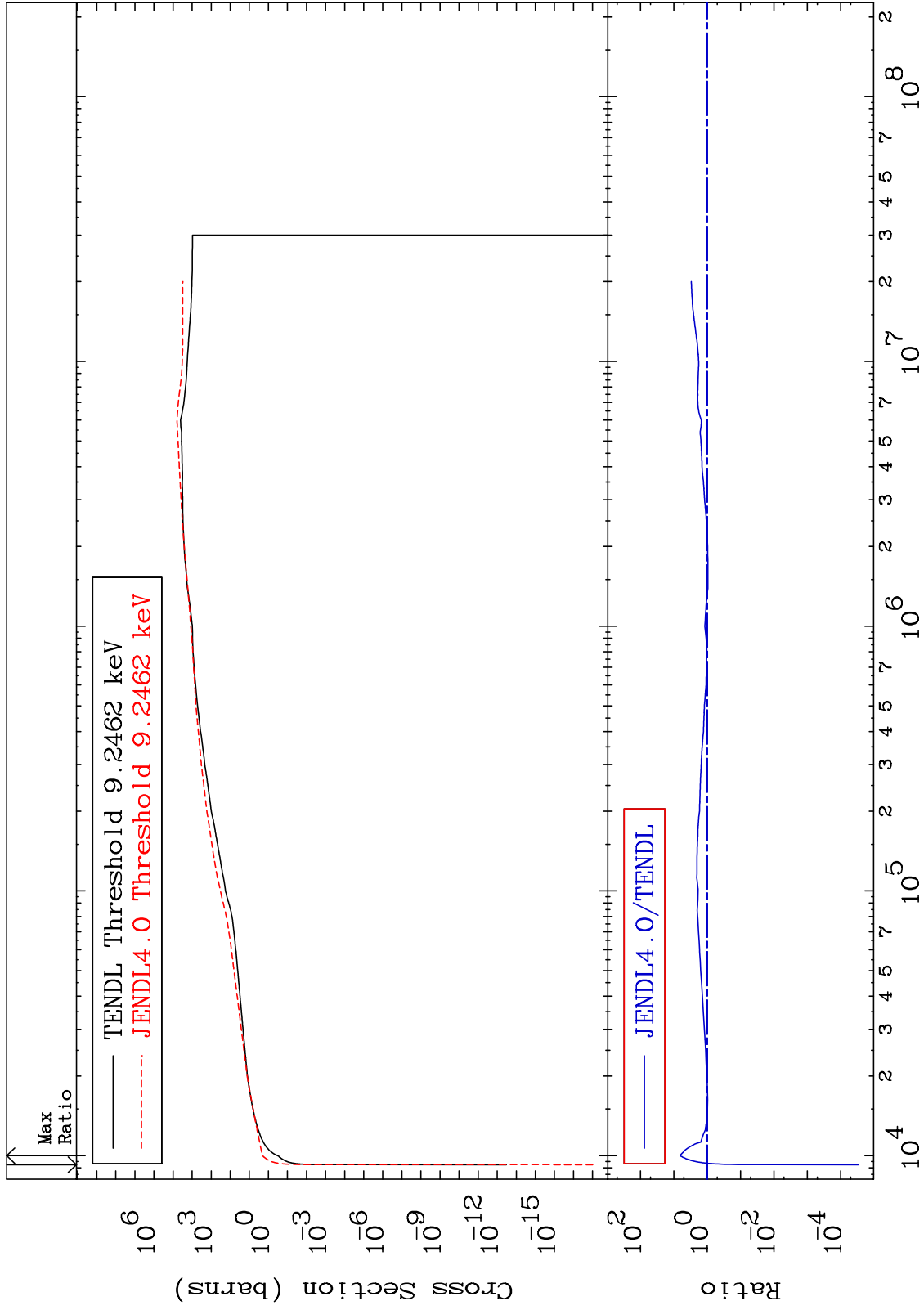
91-Pa-231  
-4.161 To 18.80 %



MAT 9131

Dpa inelastic (mt51-91)  
Cross Section

91-Pa-231  
-100.0 To 555.9 %



53

Incident Energy (eV)

91-Pa-231

MAT 9131

Dpa disappearance (mt102 -120)  
Cross Section

91-Pa-231  
-100.0 To 2748. %

