

Program Complot  
(Version 2018-1)

by

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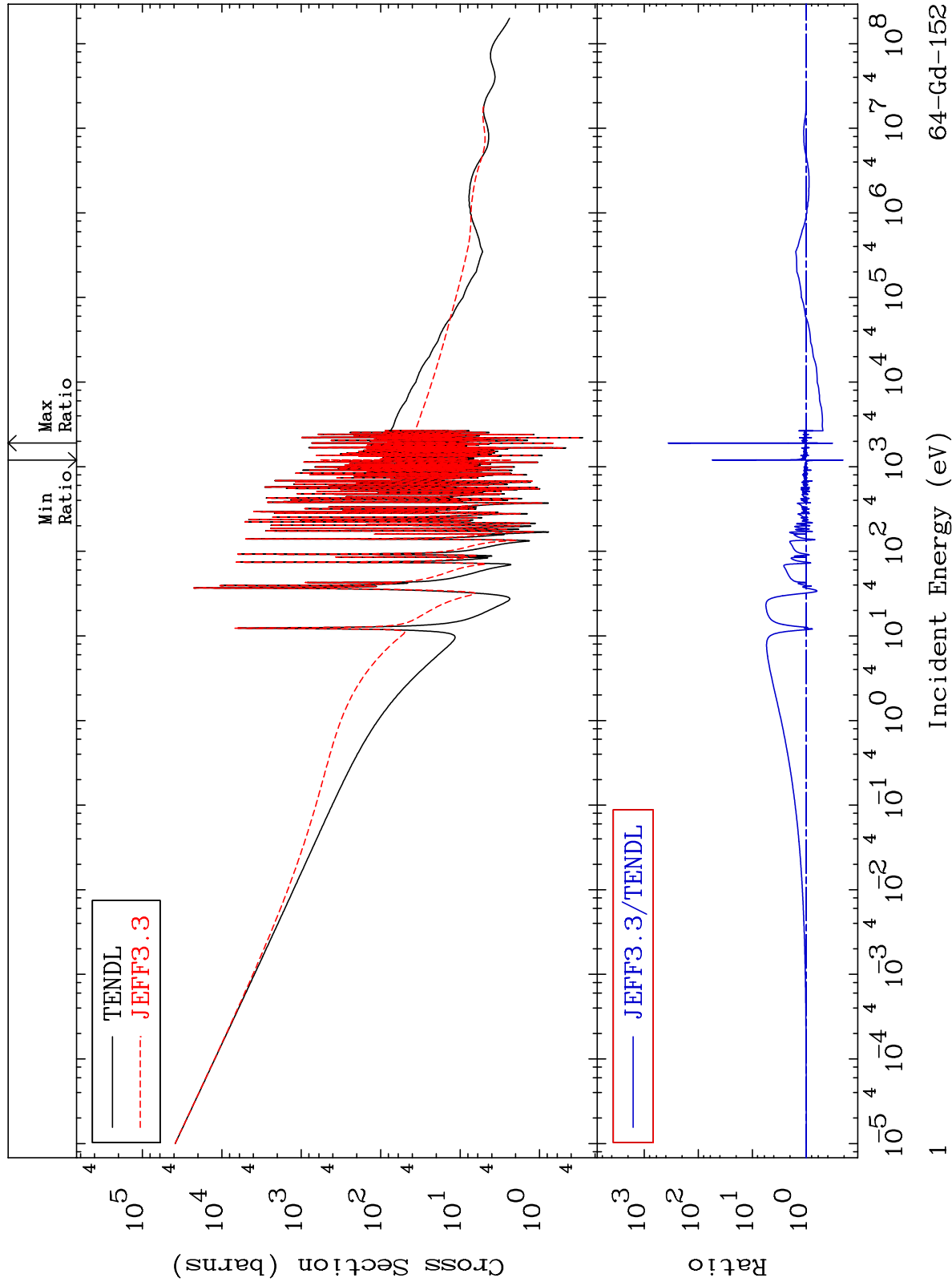
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 6425

Total  
Cross Section

64-Gd-152  
-78.98 To 9999. %



64-Gd-152

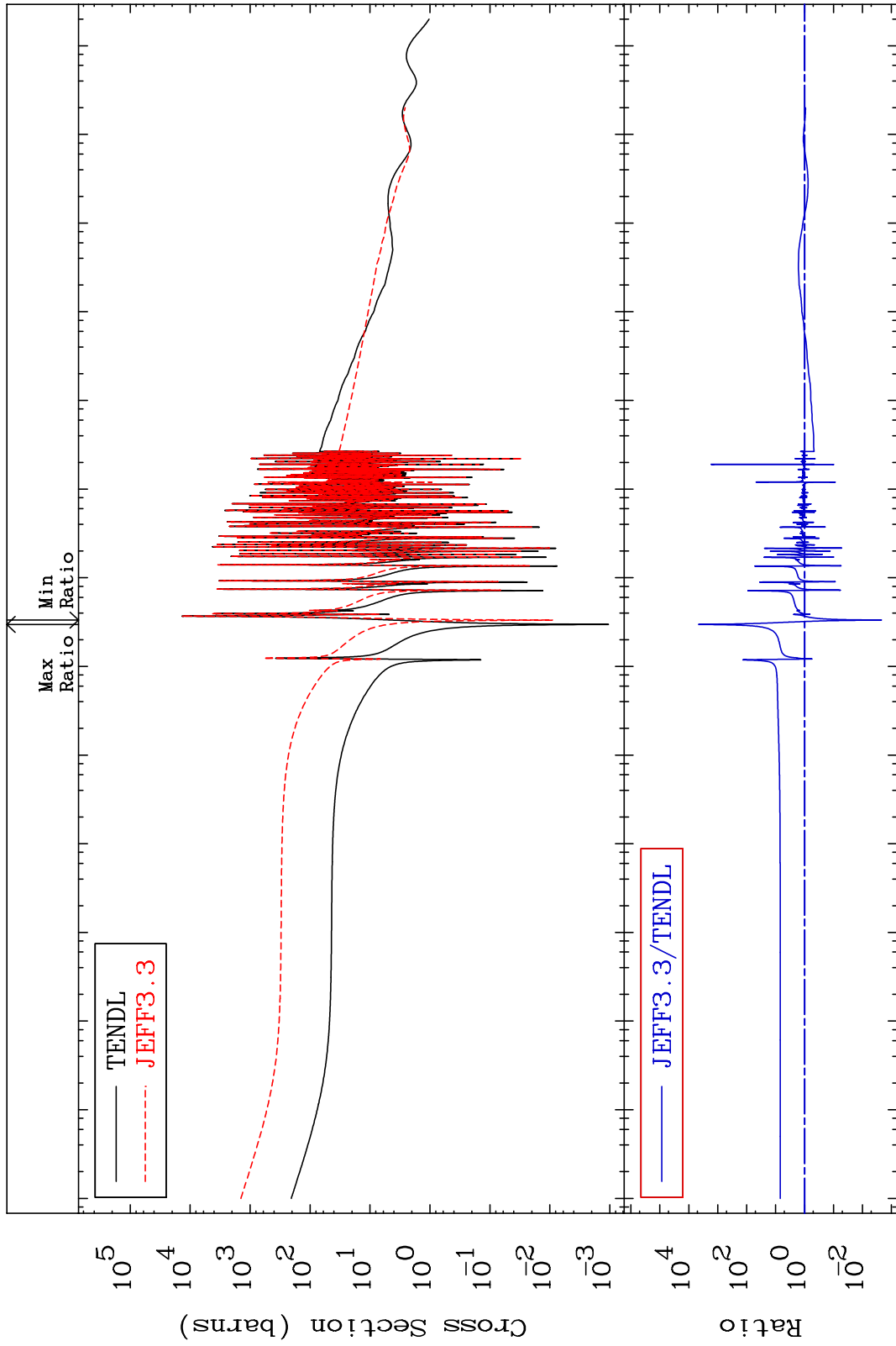
MAT 6425

Elastic

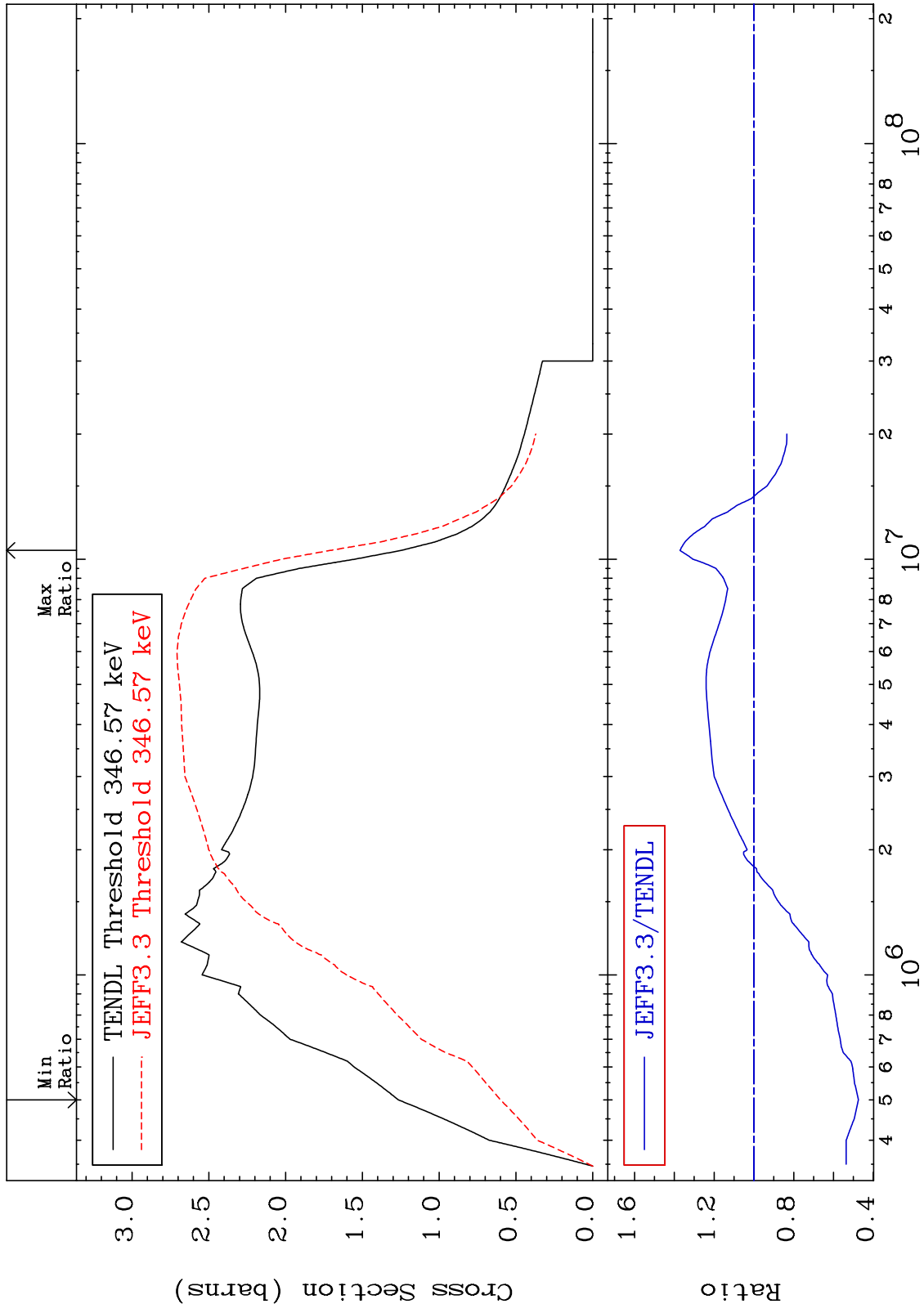
64-Gd-152

Cross Section

-99.78 To 9999. %



MAT 6425 Inelastic Cross Section 64-Gd-152  
-52.52 To 37.13 %



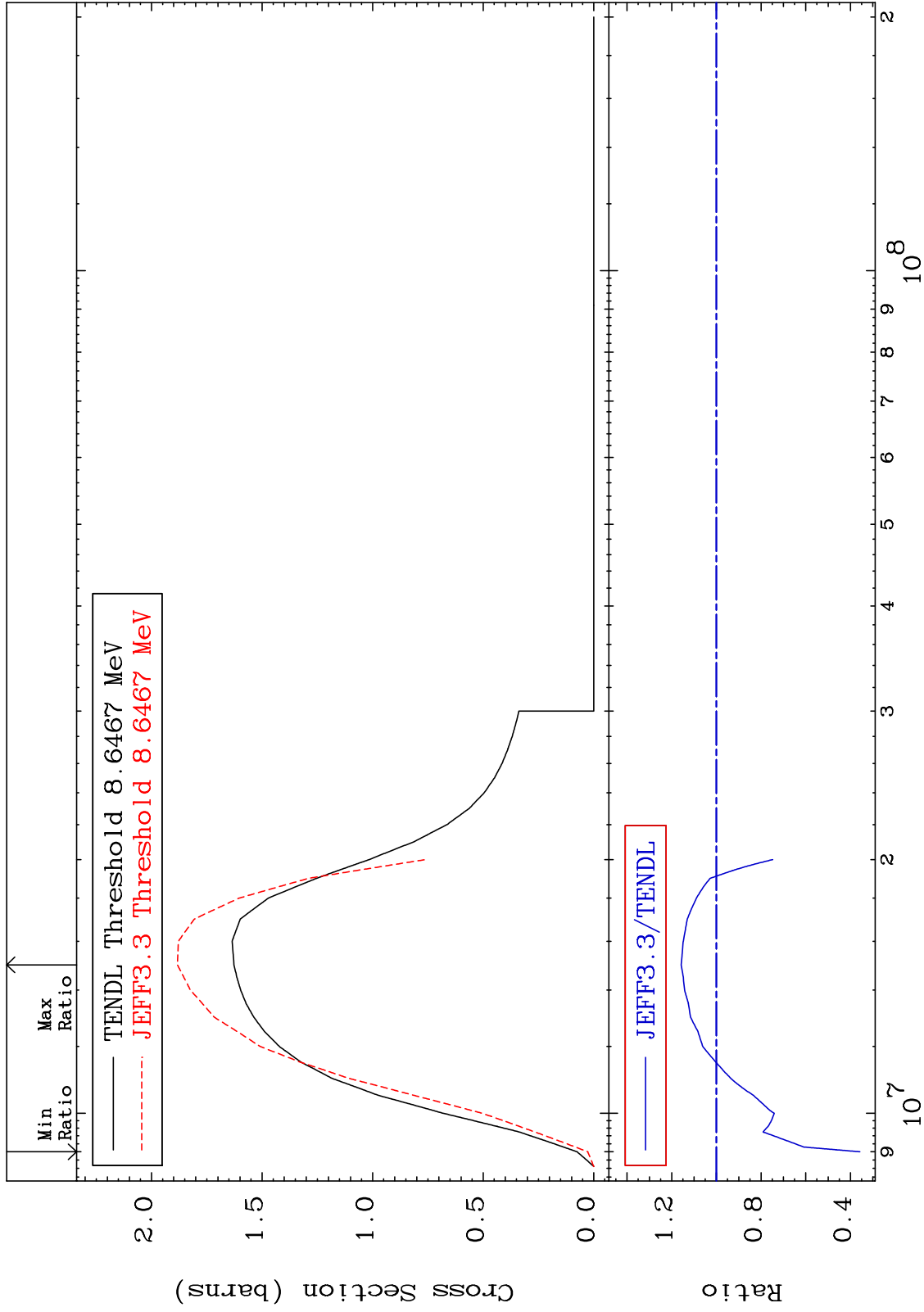
MAT 6425

(n,2n)

64-Gd-152

Cross Section

-64.24 To 15.75 %

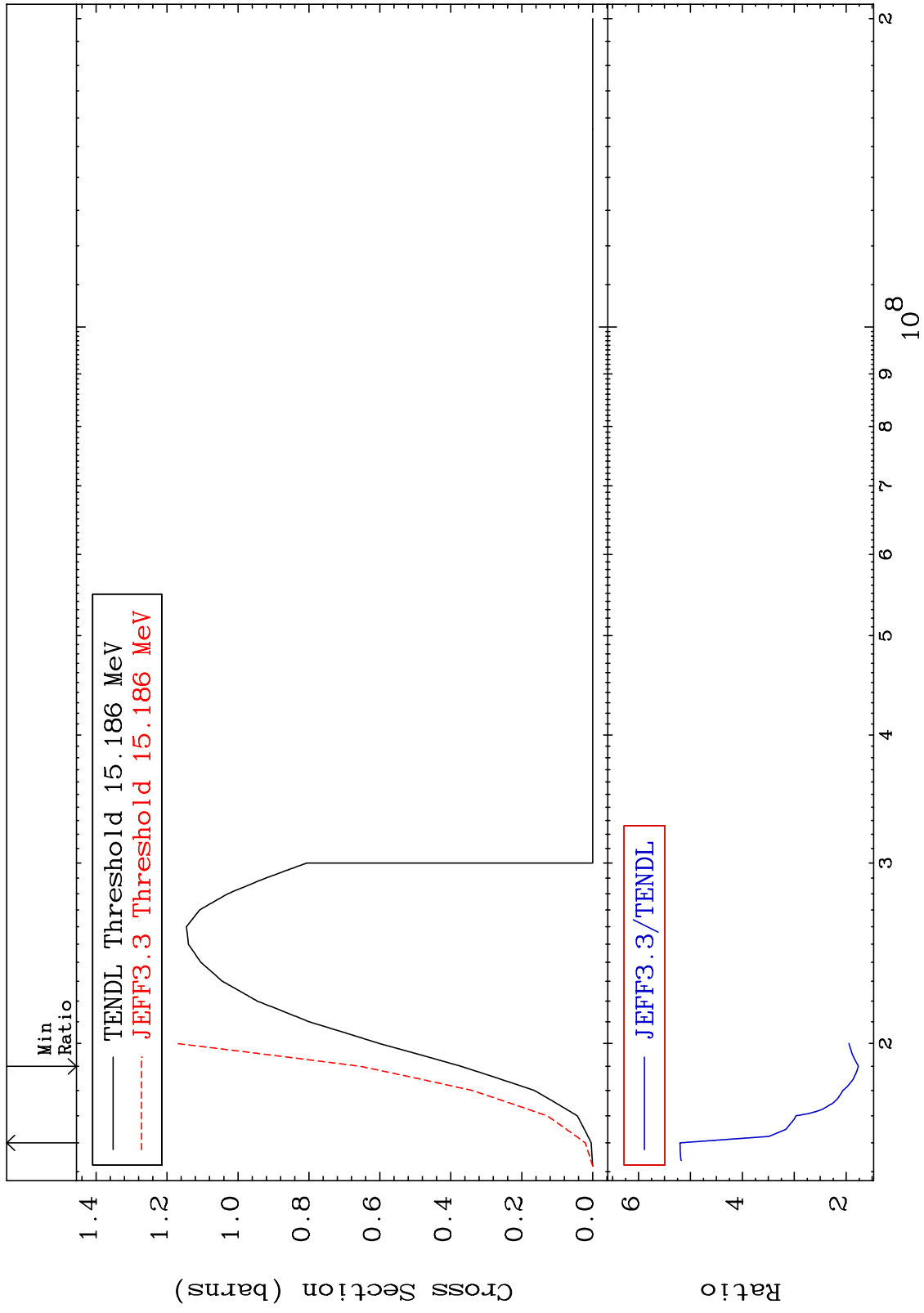


4

Incident Energy (eV)

64-Gd-152

MAT 6425 (n,3n) Cross Section 64-Gd-152 To 420.1 % 76.58



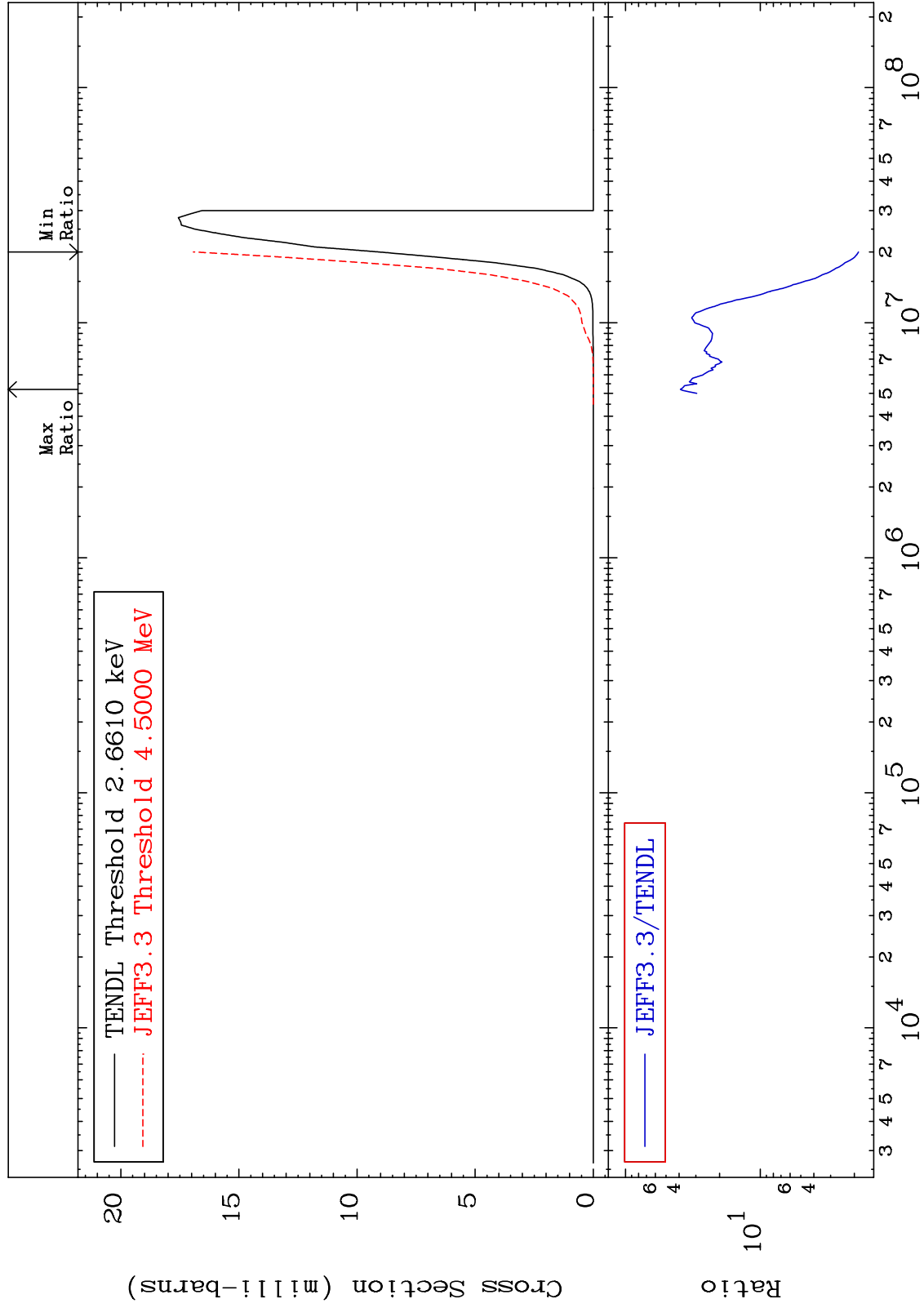
5 Incident Energy (eV) 64-Gd-152

MAT 6425

(n, n')  $\alpha$

Cross Section

64-Gd-152  
To 3810. %  
86.16



6

64-Gd-152

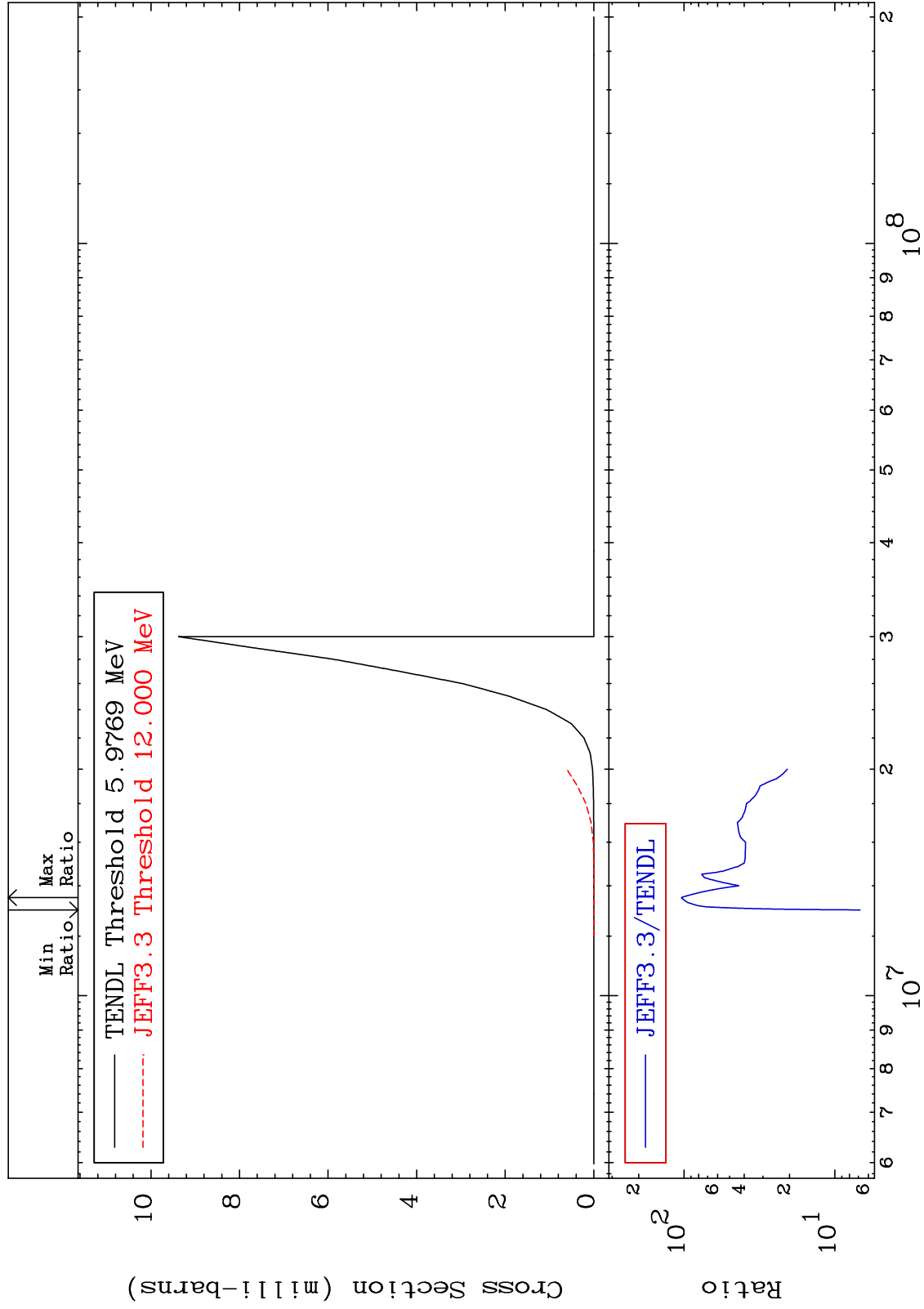
MAT 6425

(n,2n)  $\alpha$

64-Gd-152

589.3 To 9999. %

Cross Section





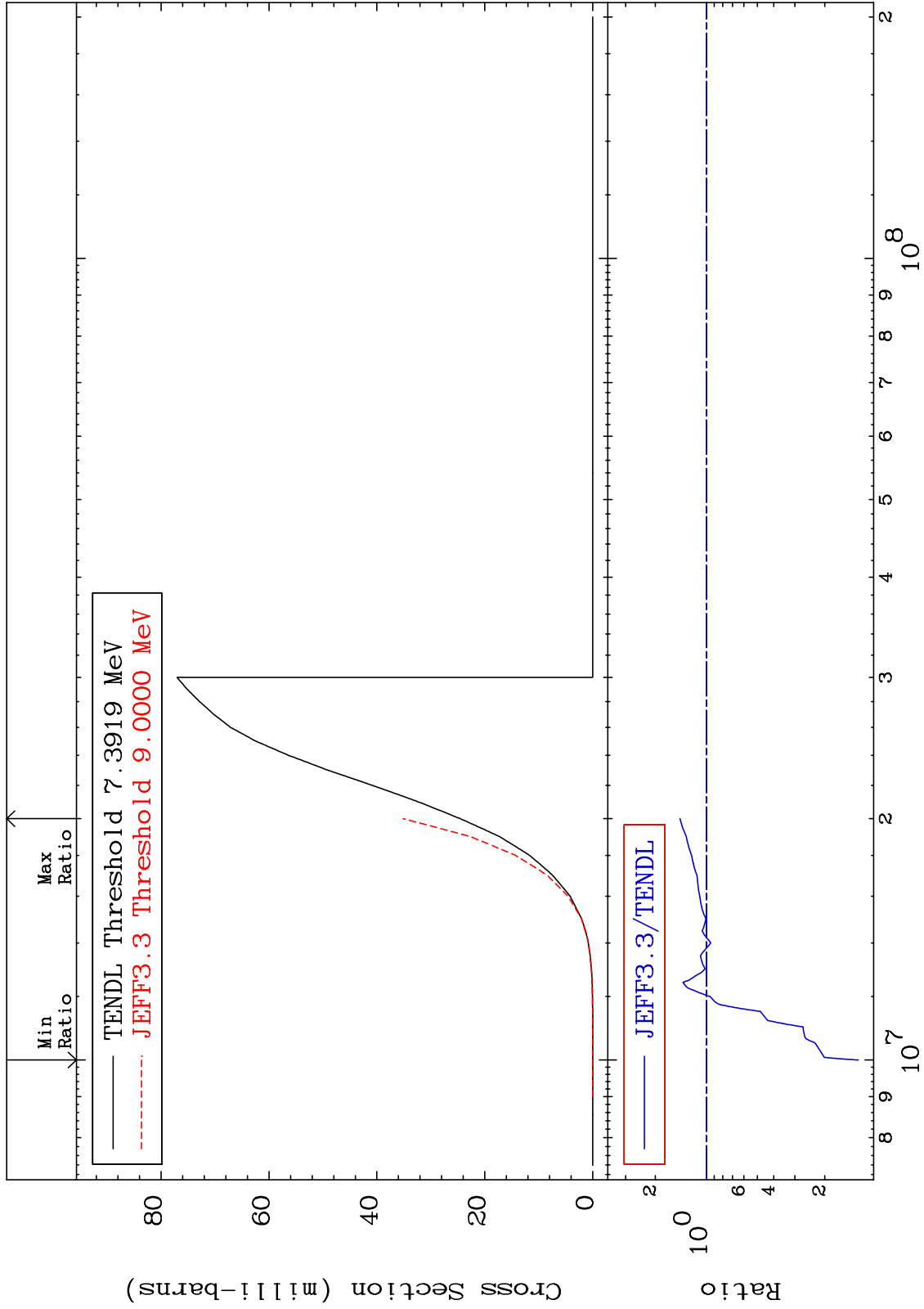
MAT 6425

(n, n') p

64-Gd-152

Cross Section

-87.35 To 43.10 %



8

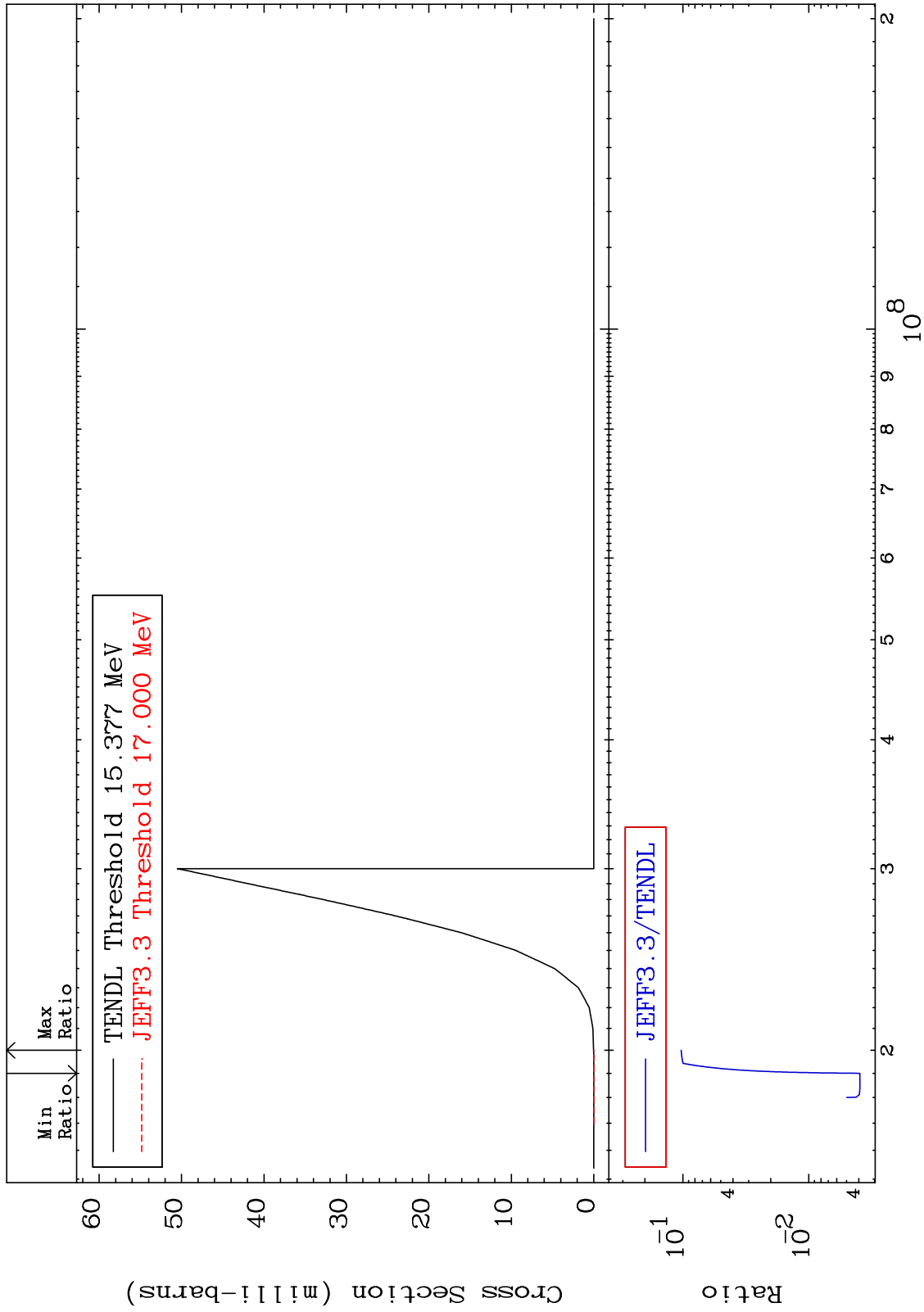
Incident Energy (eV)

64-Gd-152

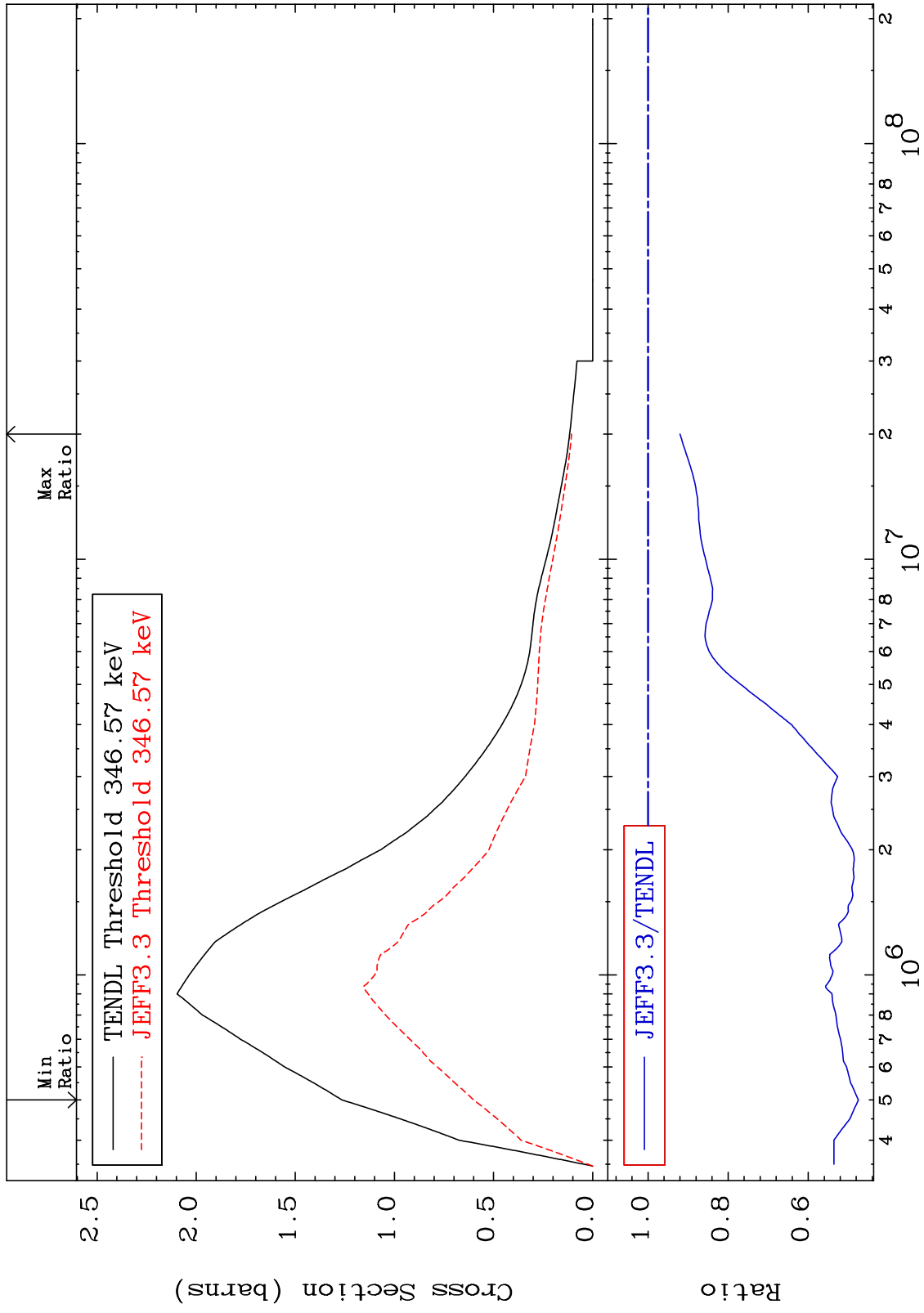
MAT 6425

(n,2n) p  
Cross Section

64-Gd-152  
-99.61 To -89.71%

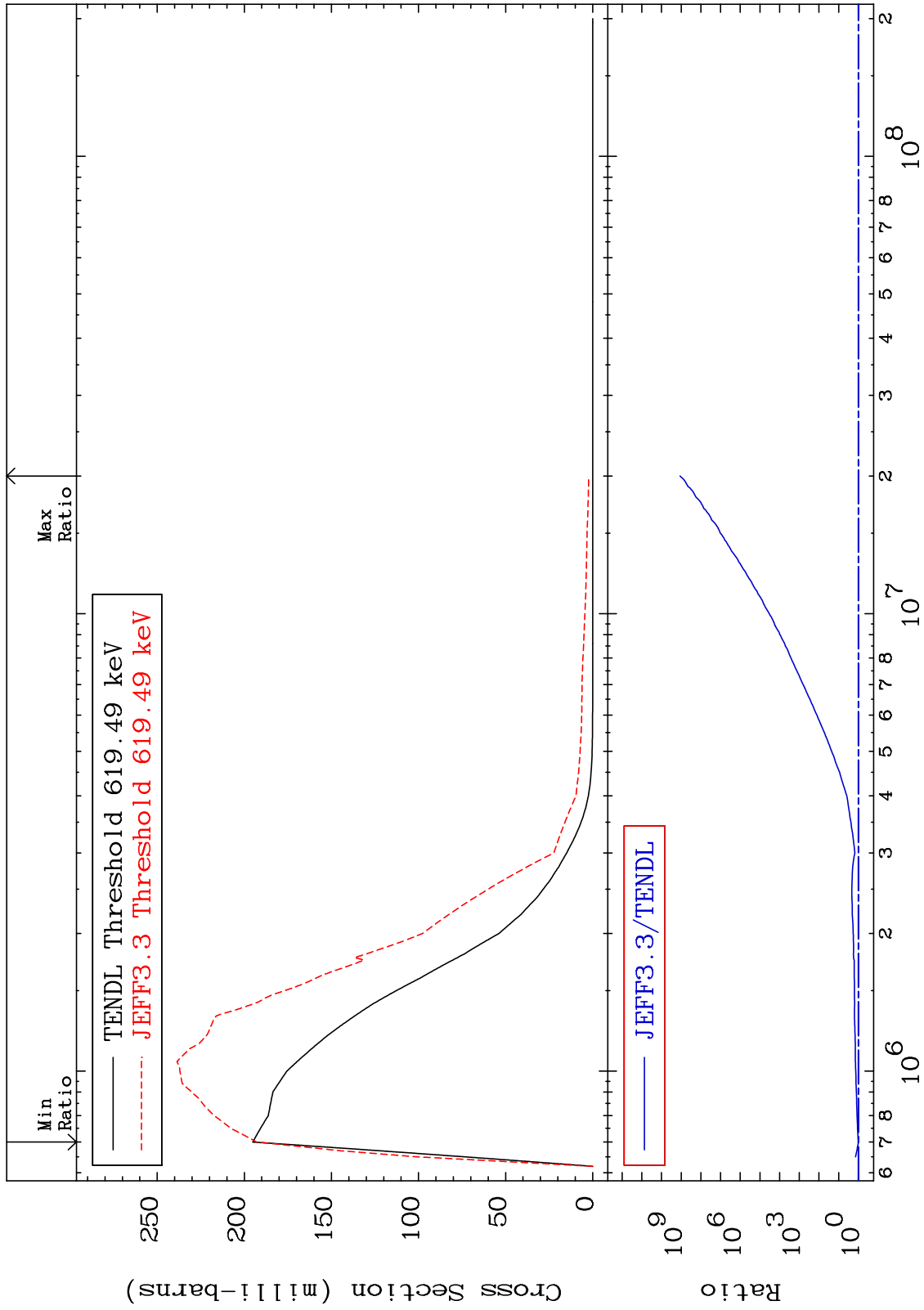


MAT 6425      MT= 51 (n,n') Level      64-Gd-152  
 Cross Section      -52.53 To -7.992%



10      Incident Energy (eV)      64-Gd-152

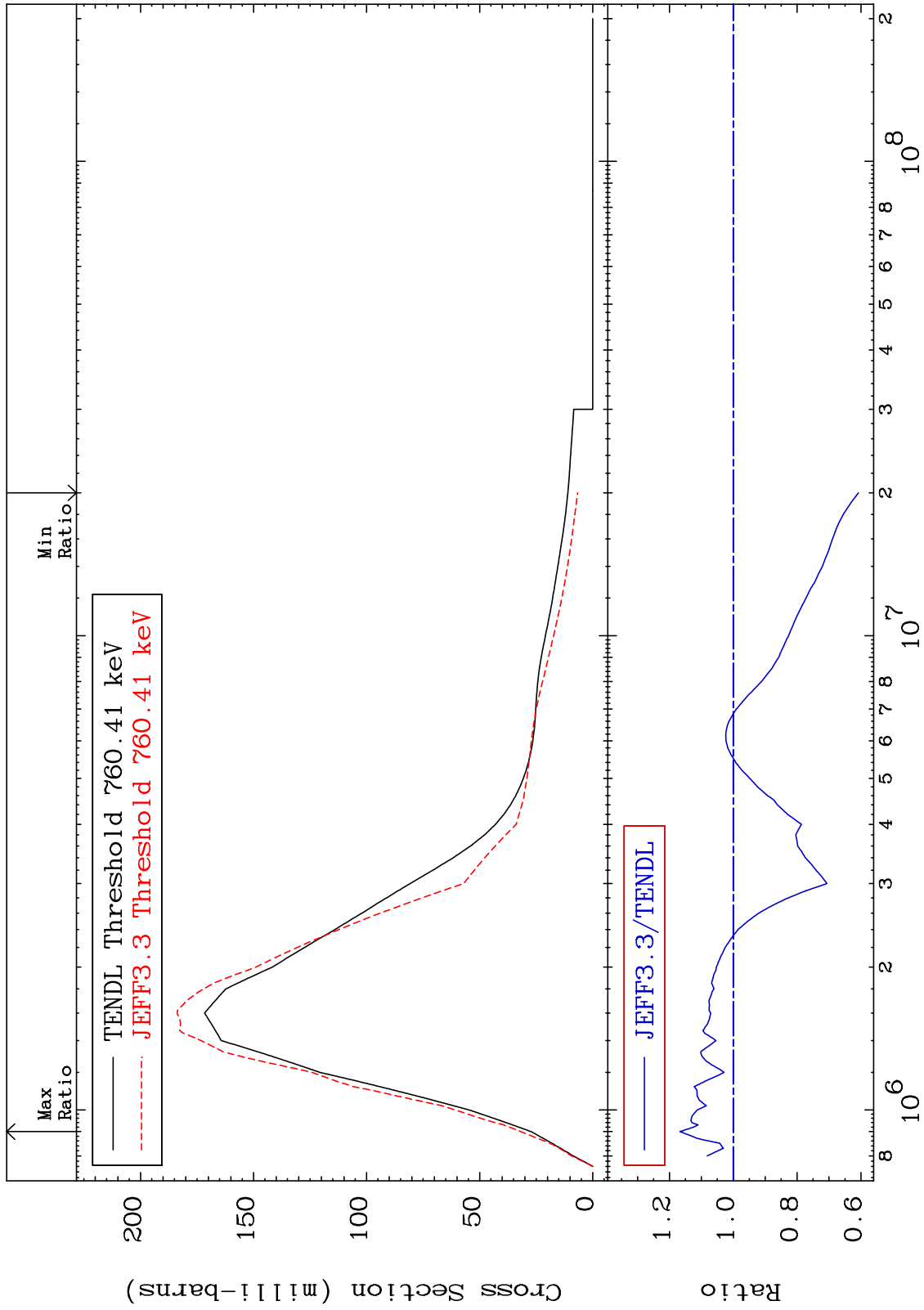
MAT 6425      MT= 52 (n,n') Level Cross Section      64-Gd-152  
 -1.194 To 9999. %



MAT 6425

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

64-Gd-152  
-39.21 To 16.69 %



12

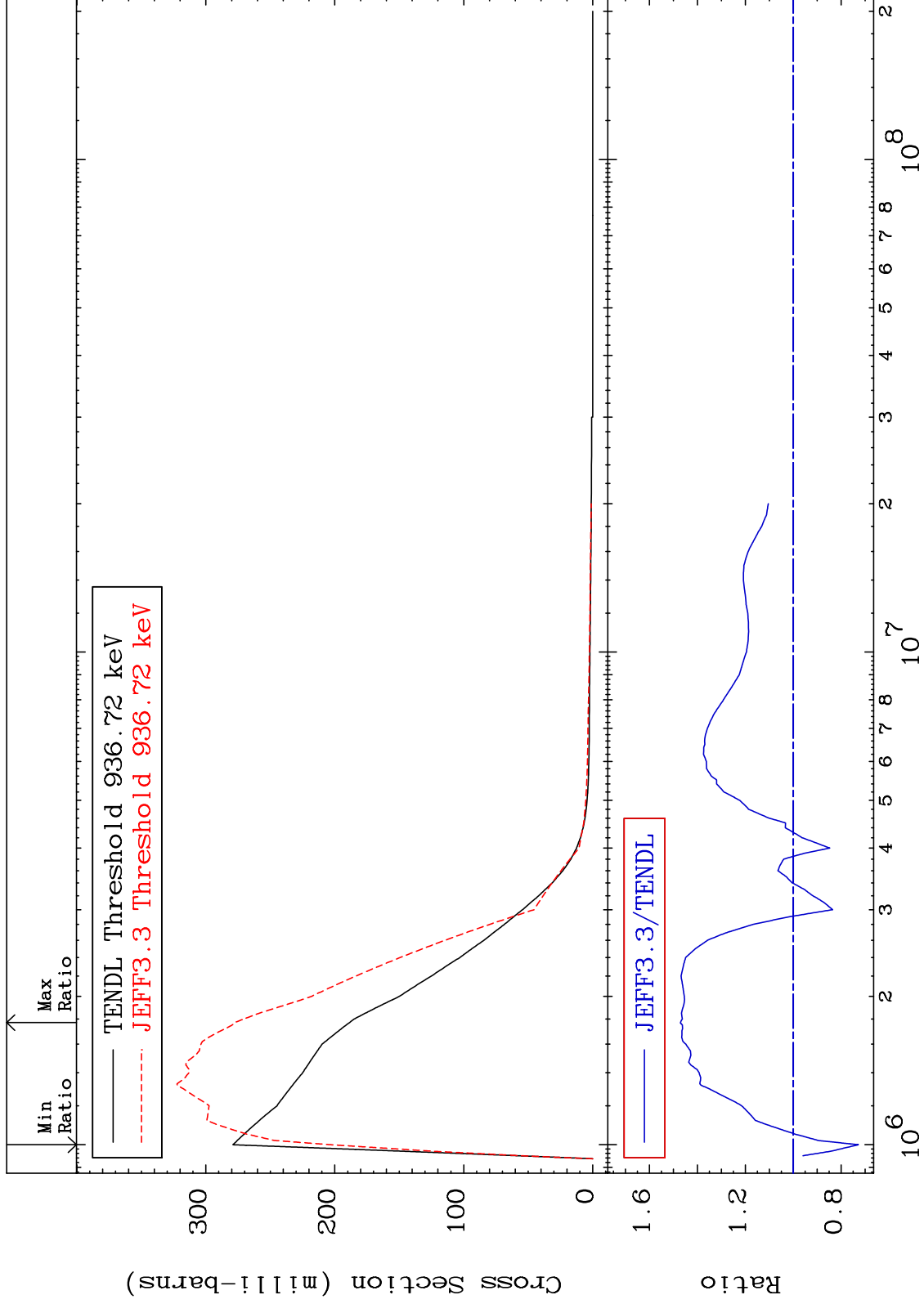
64-Gd-152

64-Gd-152

MAT 6425

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

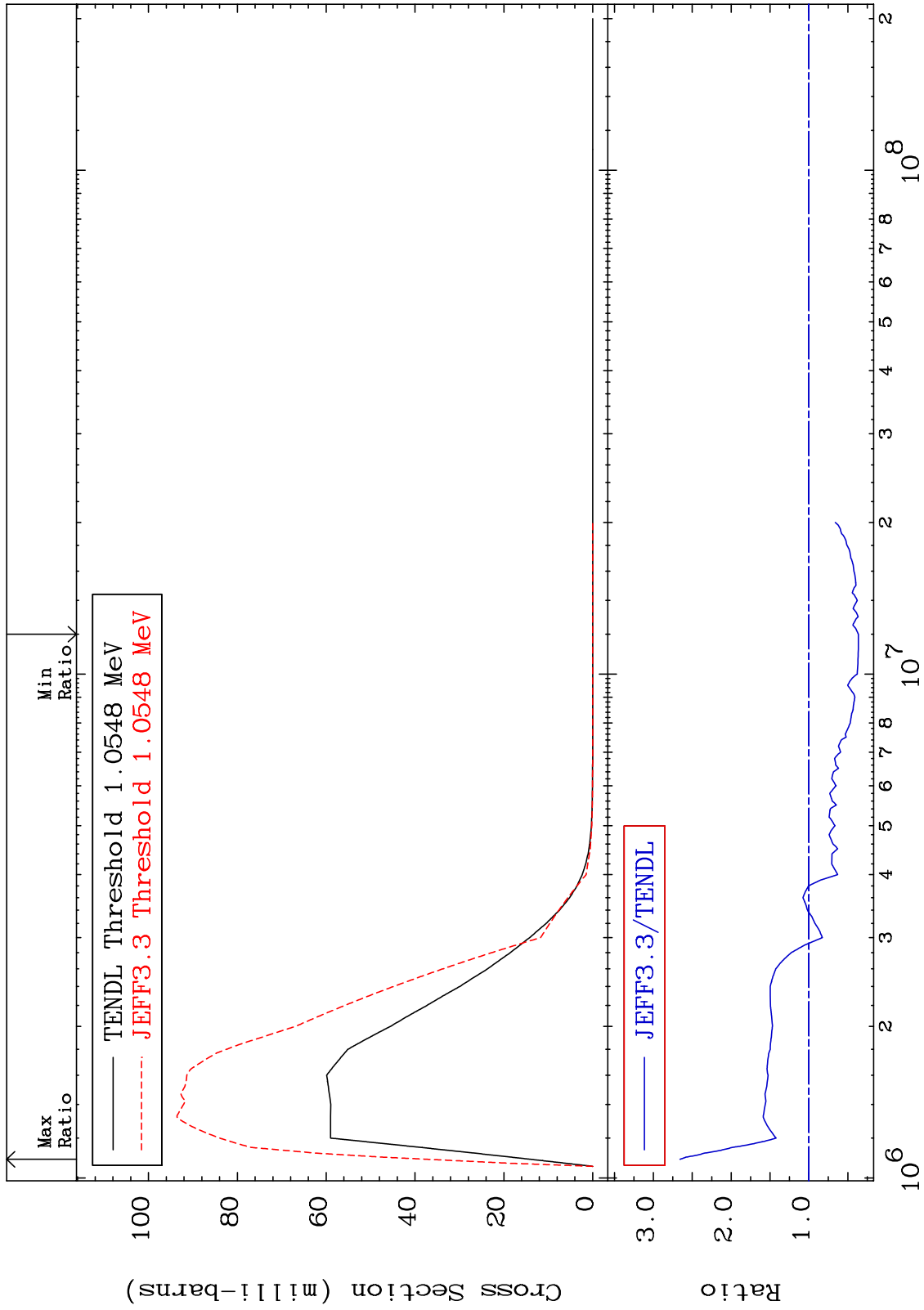
64-Gd-152  
-27.18 To 47.23 %



13

64-Gd-152

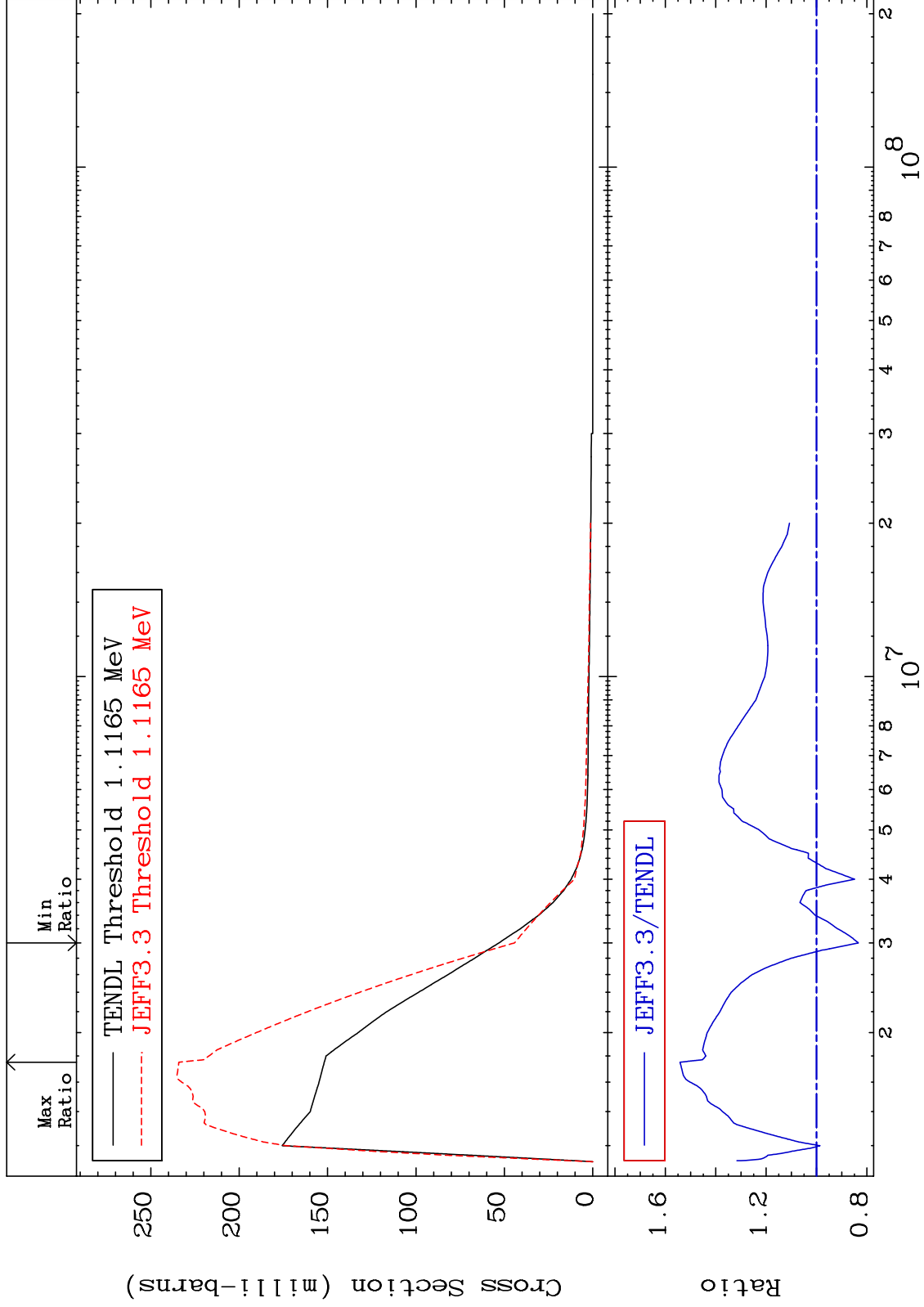
MAT 6425 MT= 55 (n,n') Level  
Cross Section 64-Gd-152  
-63.63 To 165.7 %



MAT 6425

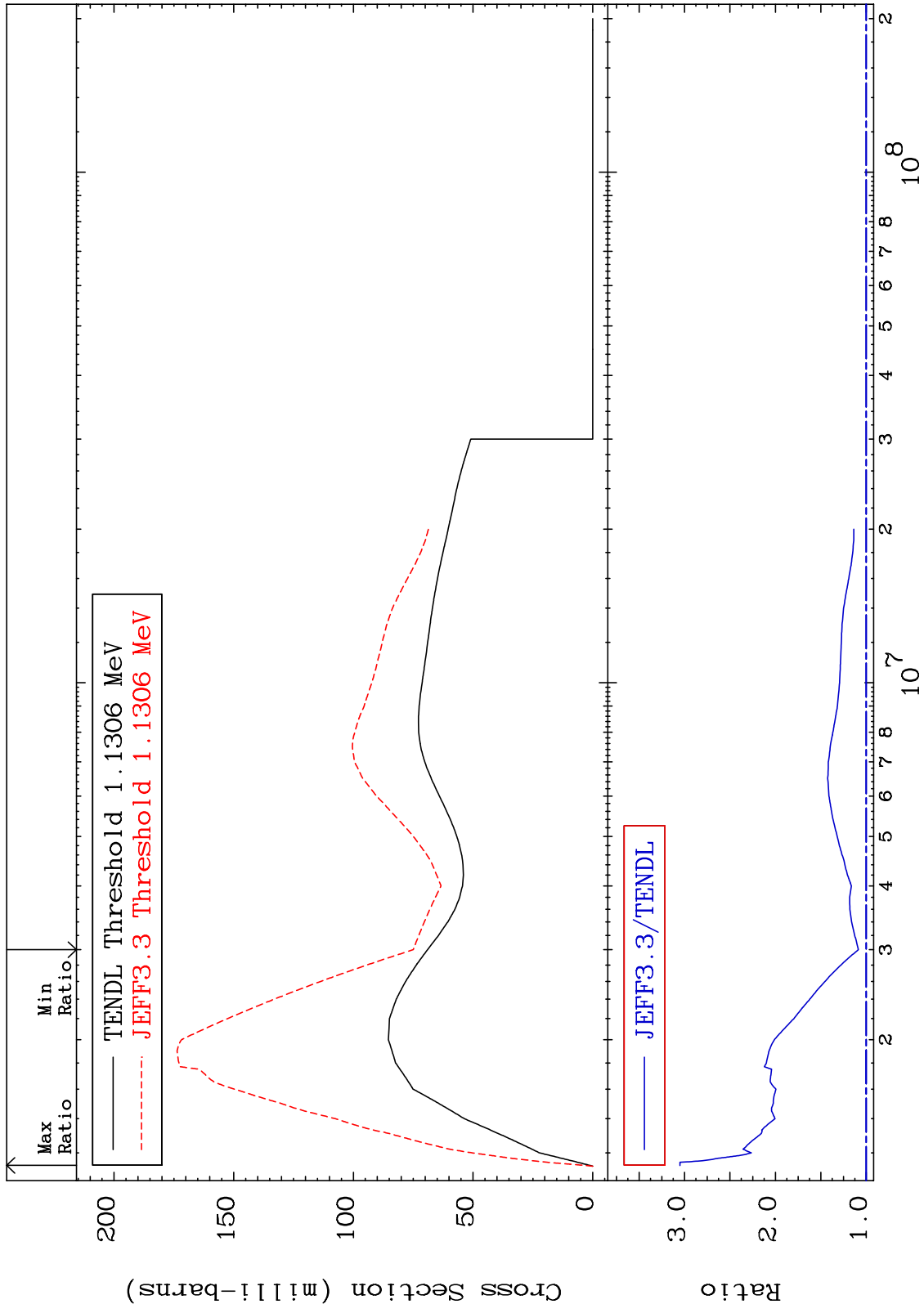
MT= 56 (n,n') Level  
Cross Section

64-Gd-152  
-16.62 To 54.21 %

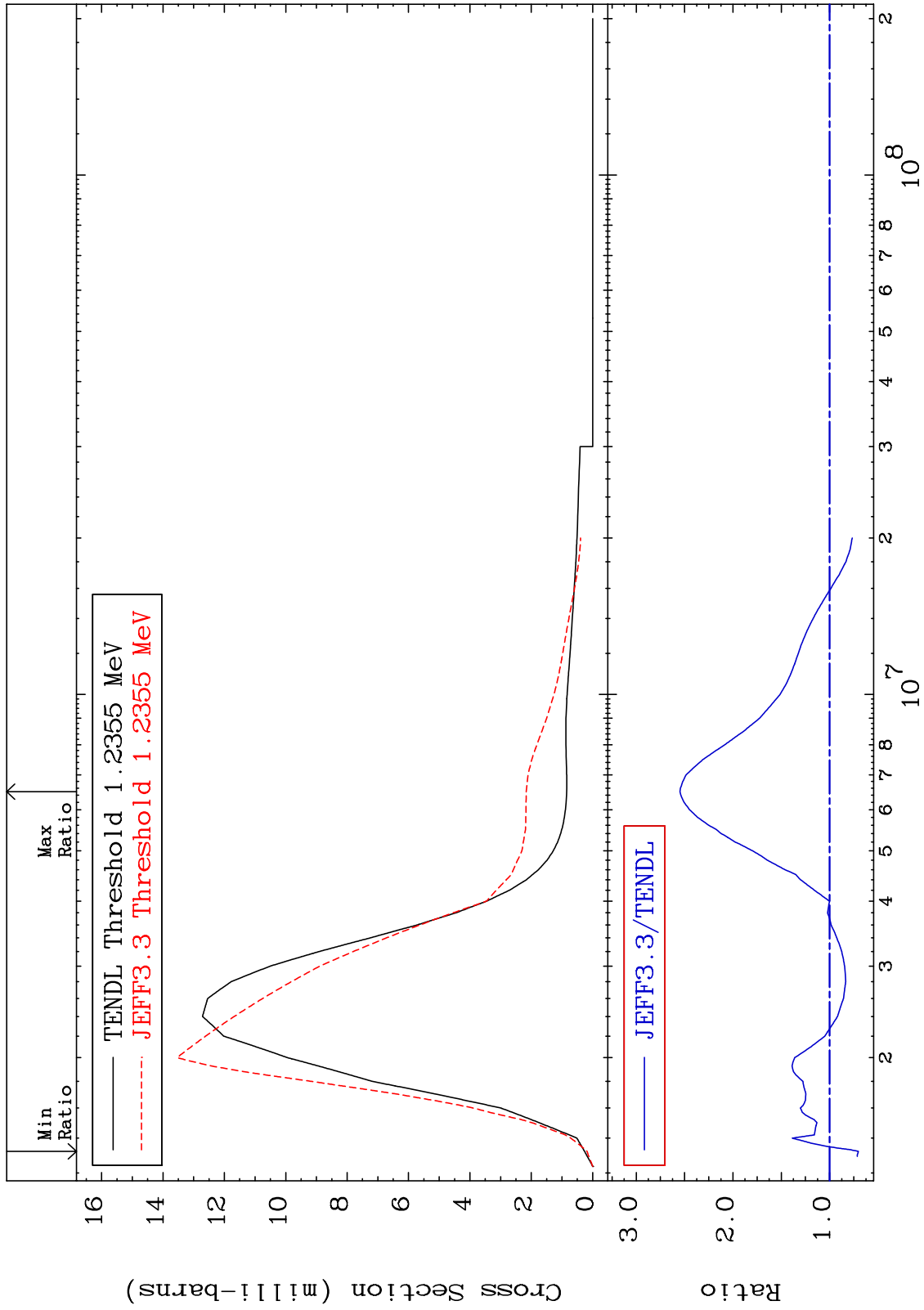




MAT 6425 MT= 57 (n,n') Level Cross Section 64-Gd-152 8.681 To 205.0 %



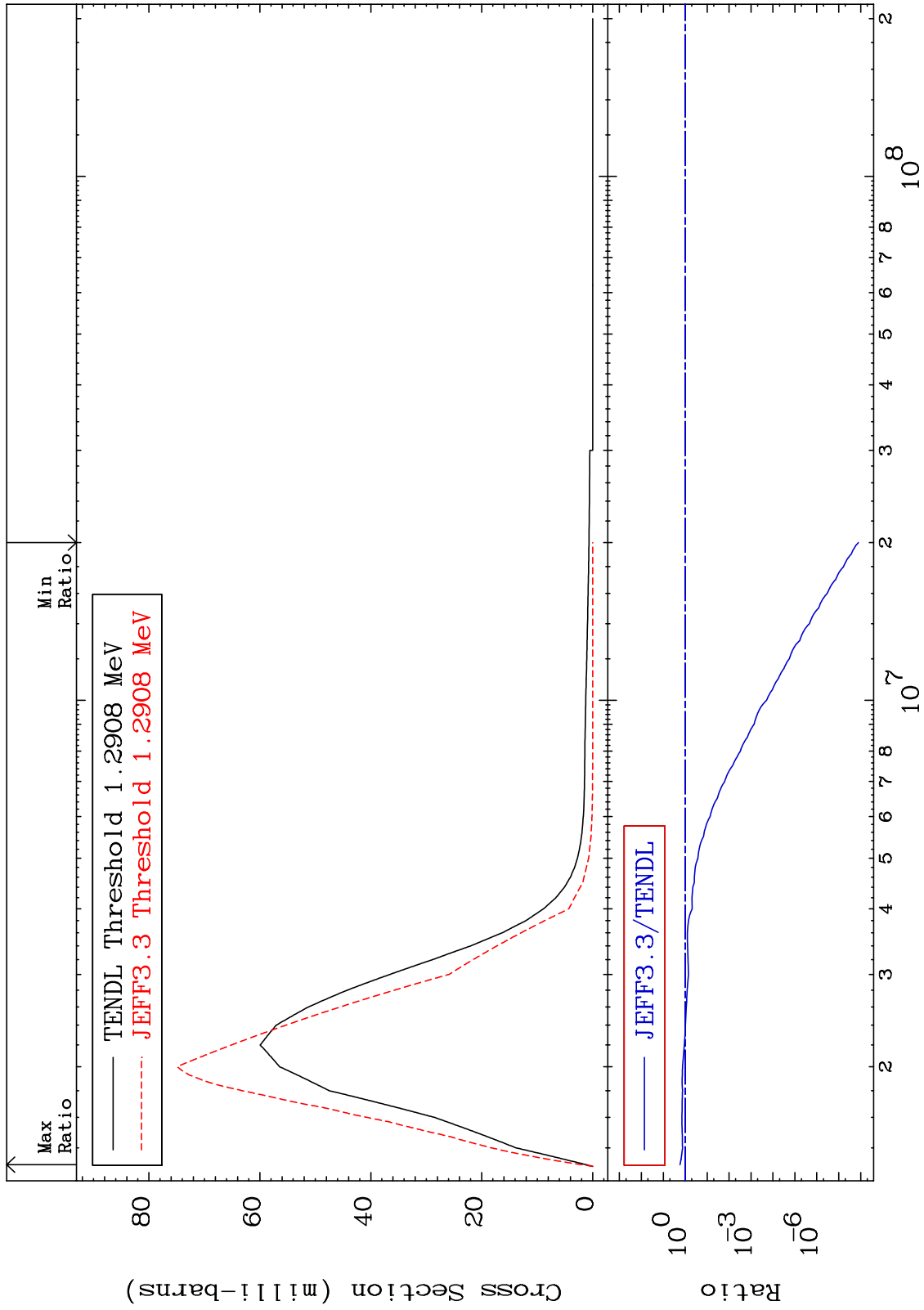
MAT 6425 MT= 58 (n,n') Level  
 Cross Section 64-Gd-152  
 -29.76 To 154.7 %



MAT 6425

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

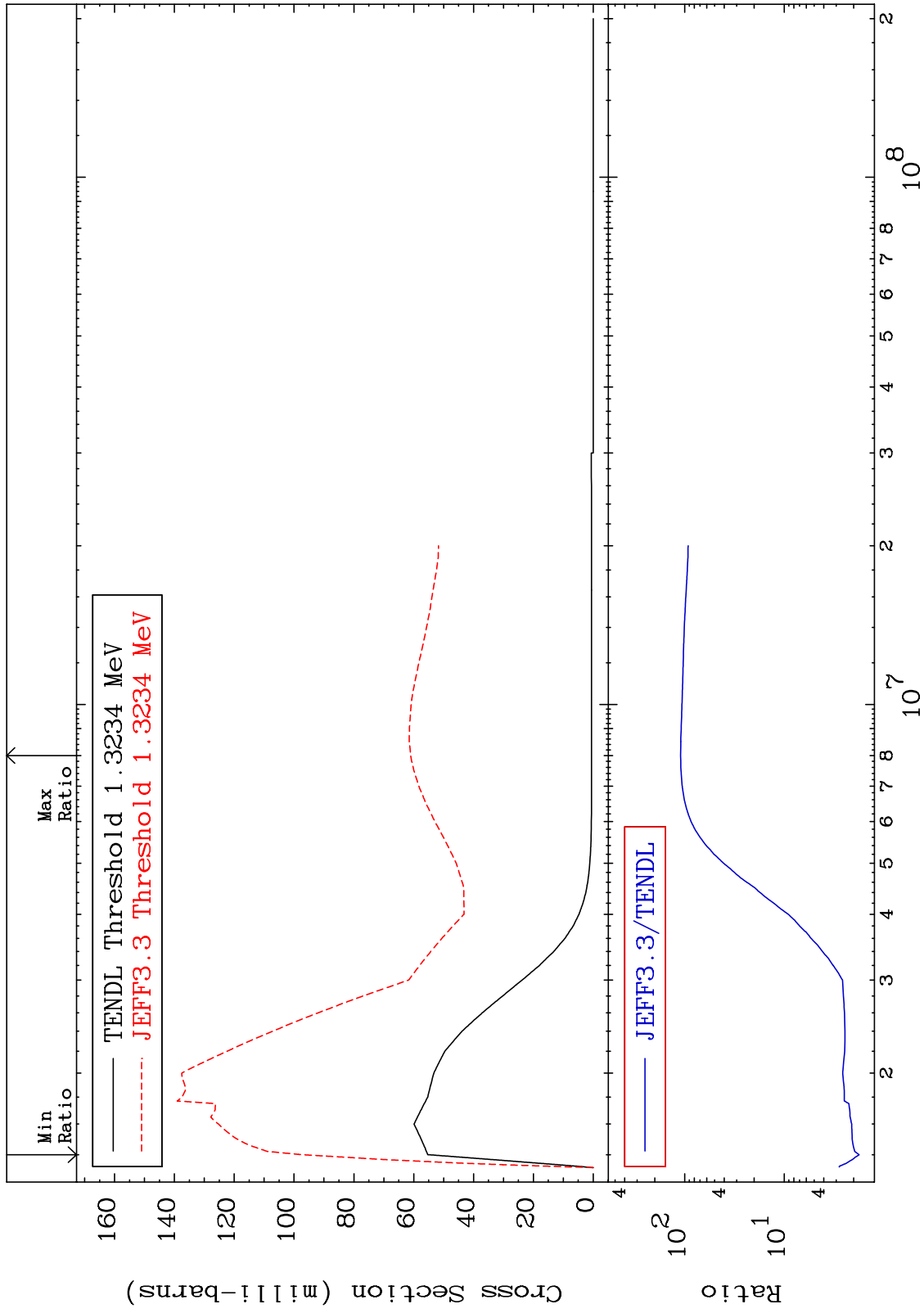
64-Gd-152  
-100.0 To 72.46 %



MAT 6425

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

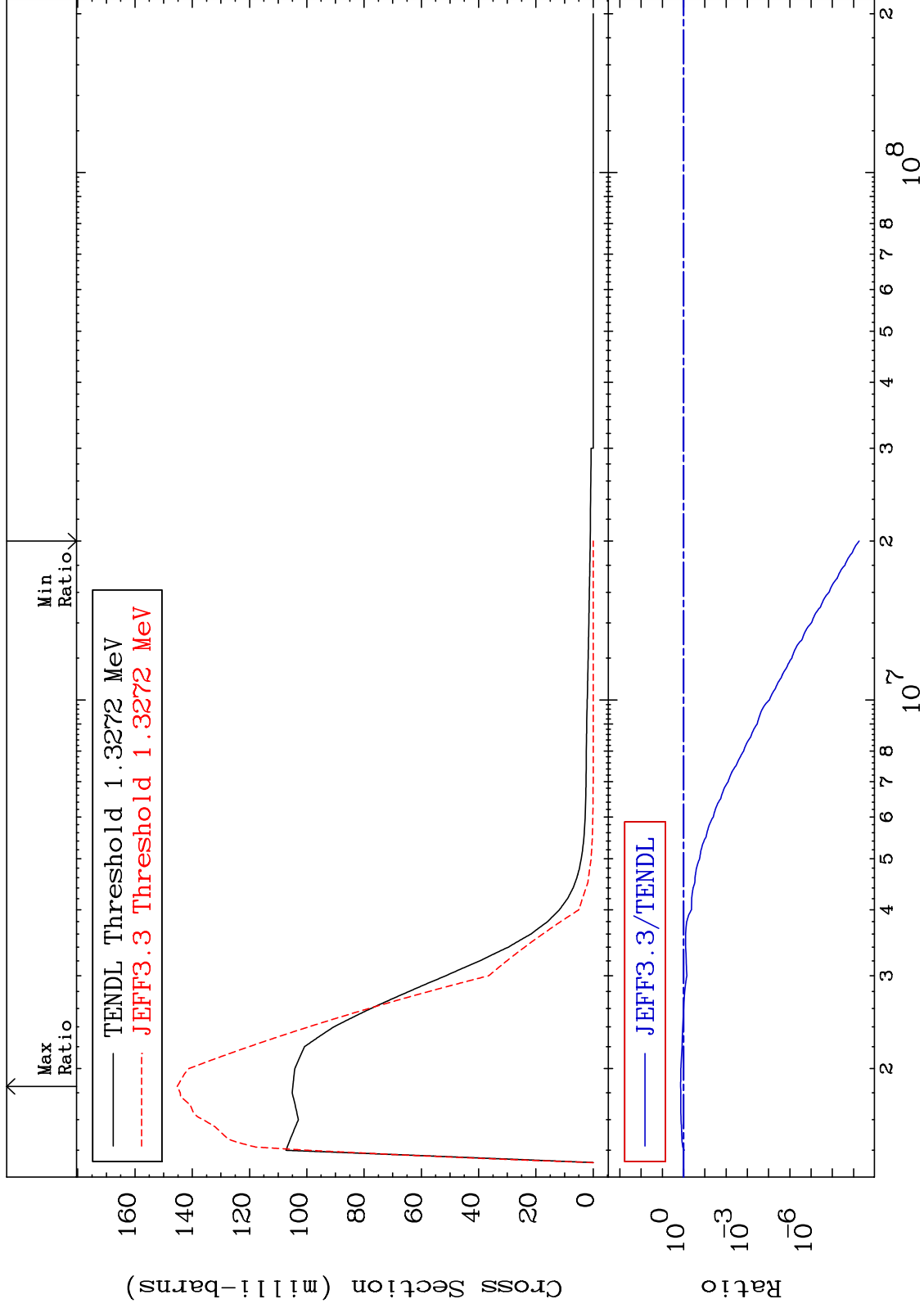
64-Gd-152  
76.35 To 9999. %



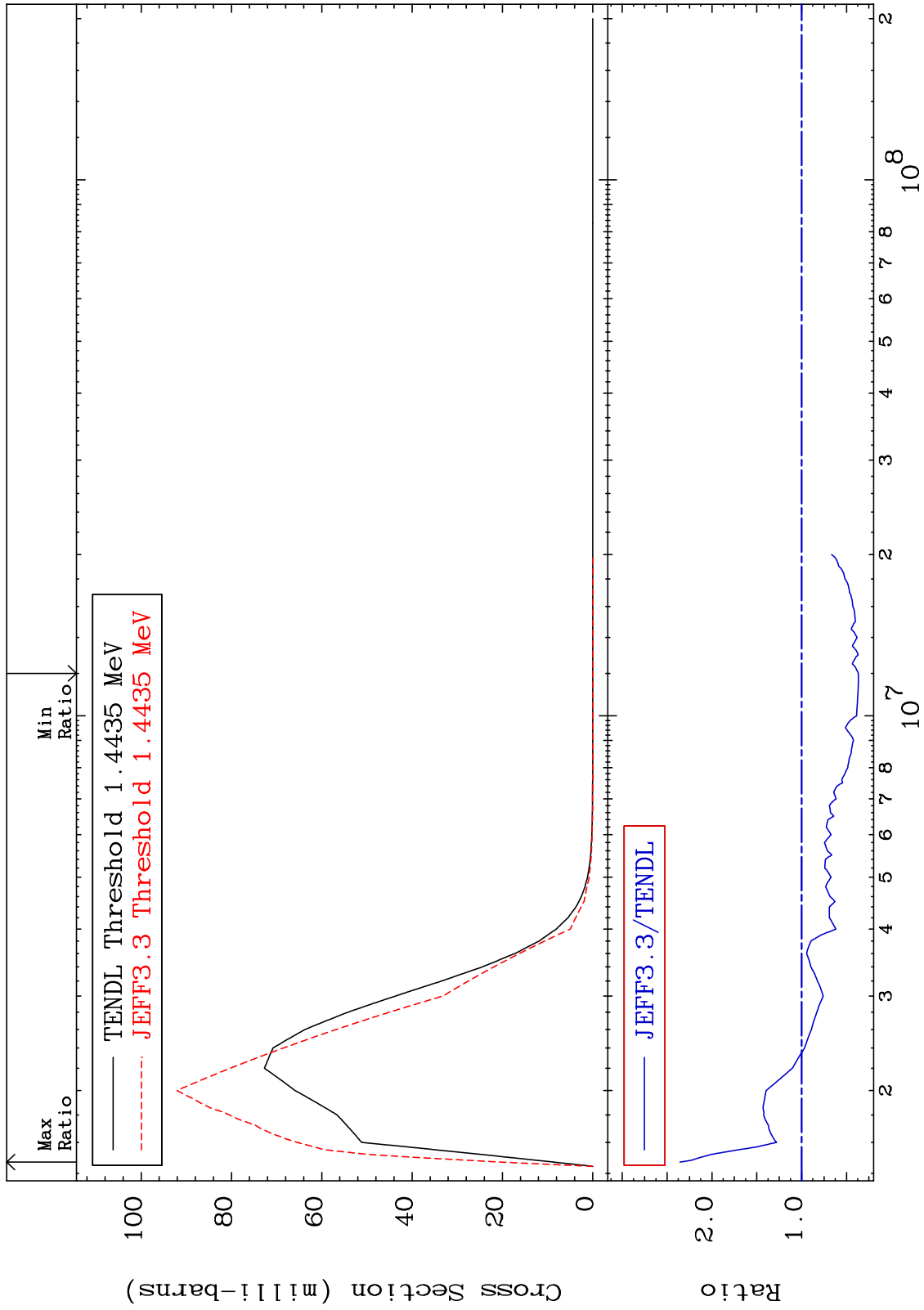
MAT 6425

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

64-Gd-152  
-100.0 To 38.49 %



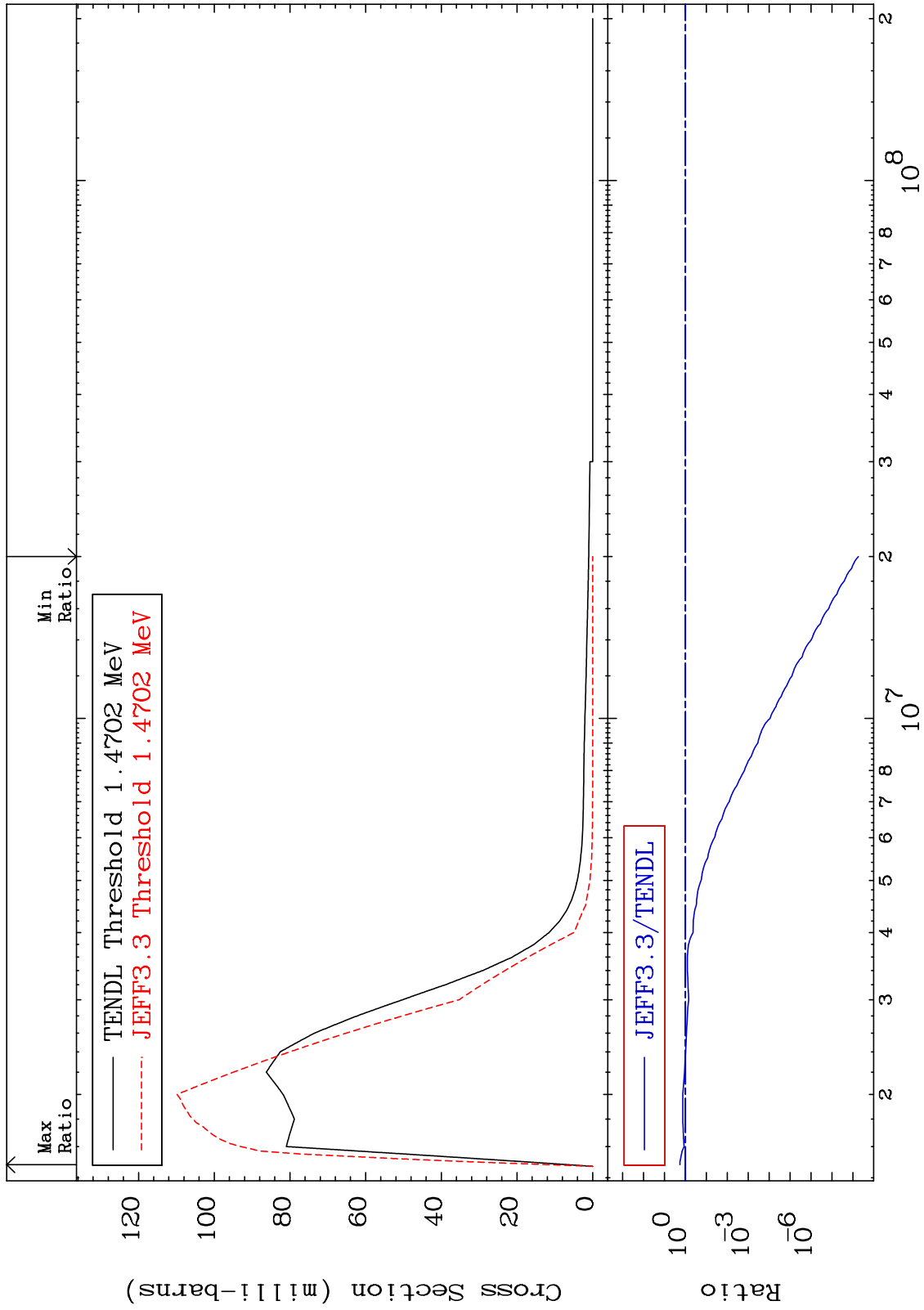
MAT 6425 MT= 62 (n,n') Level Cross Section -63.29 To 135.6 % 64-Gd-152



MAT 6425

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

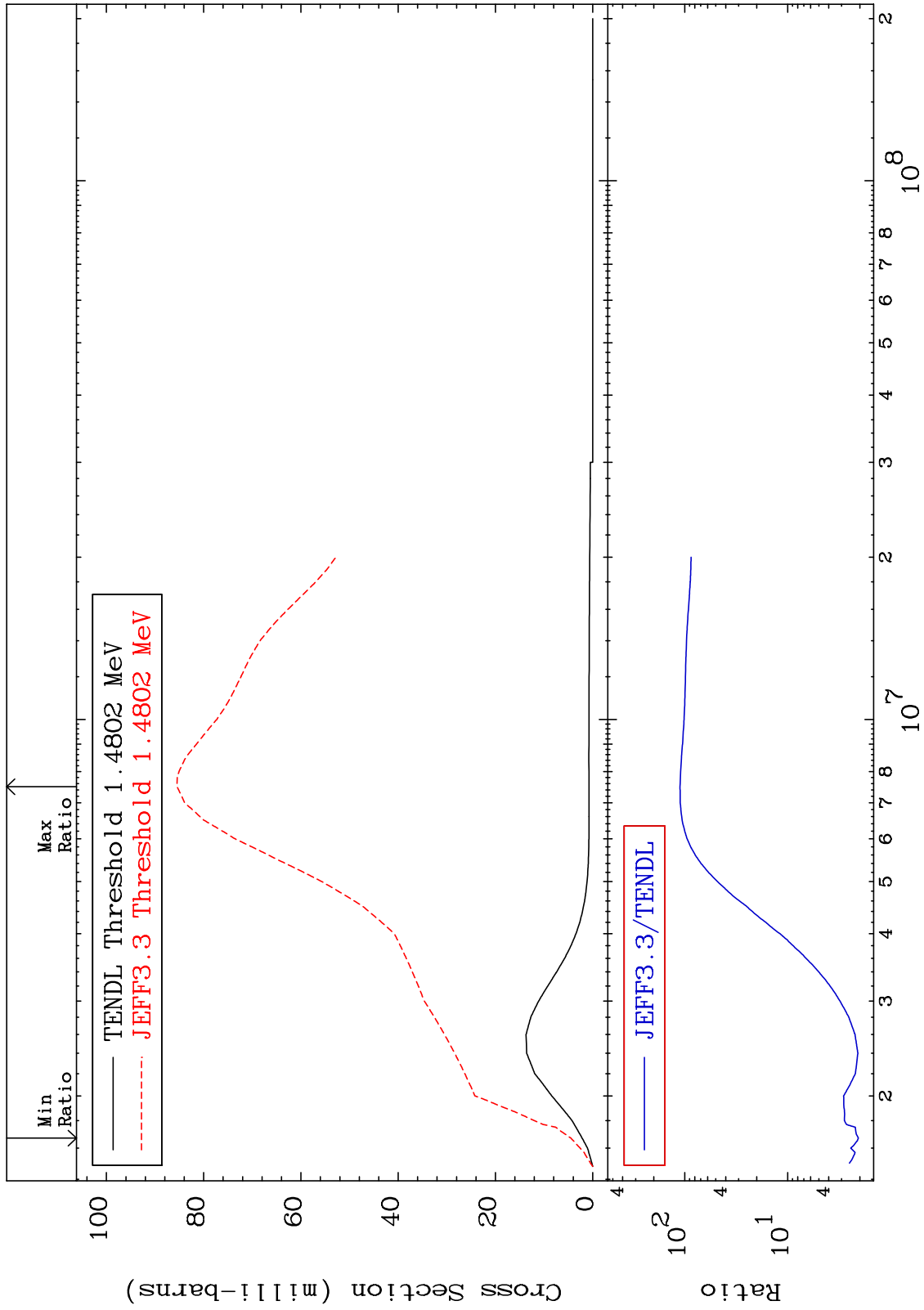
64-Gd-152  
-100.0 To 80.36 %



MAT 6425

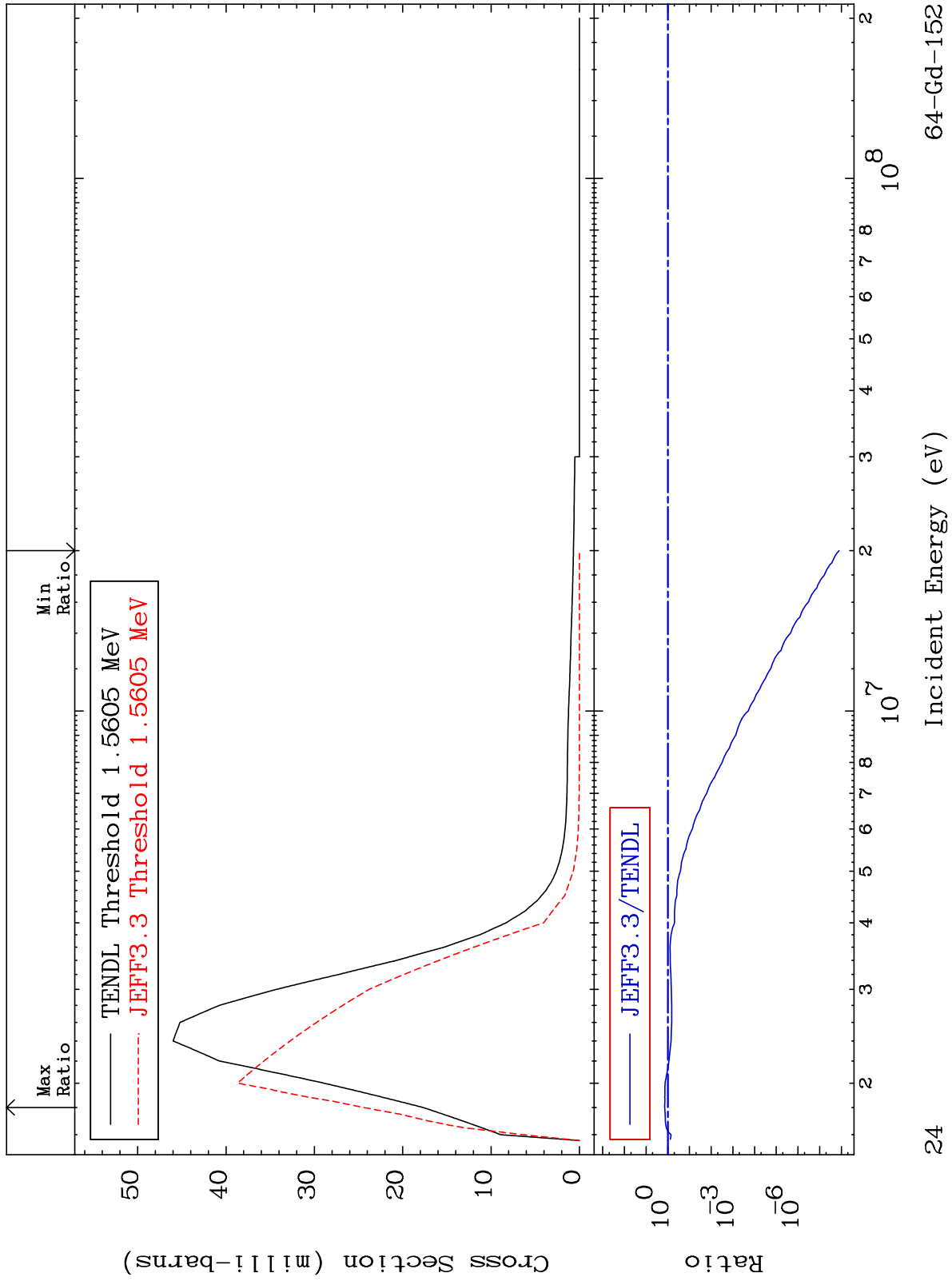
MT= 64 (n,n') Level  
Cross Section

64-Gd-152  
106.3 To 9999. %





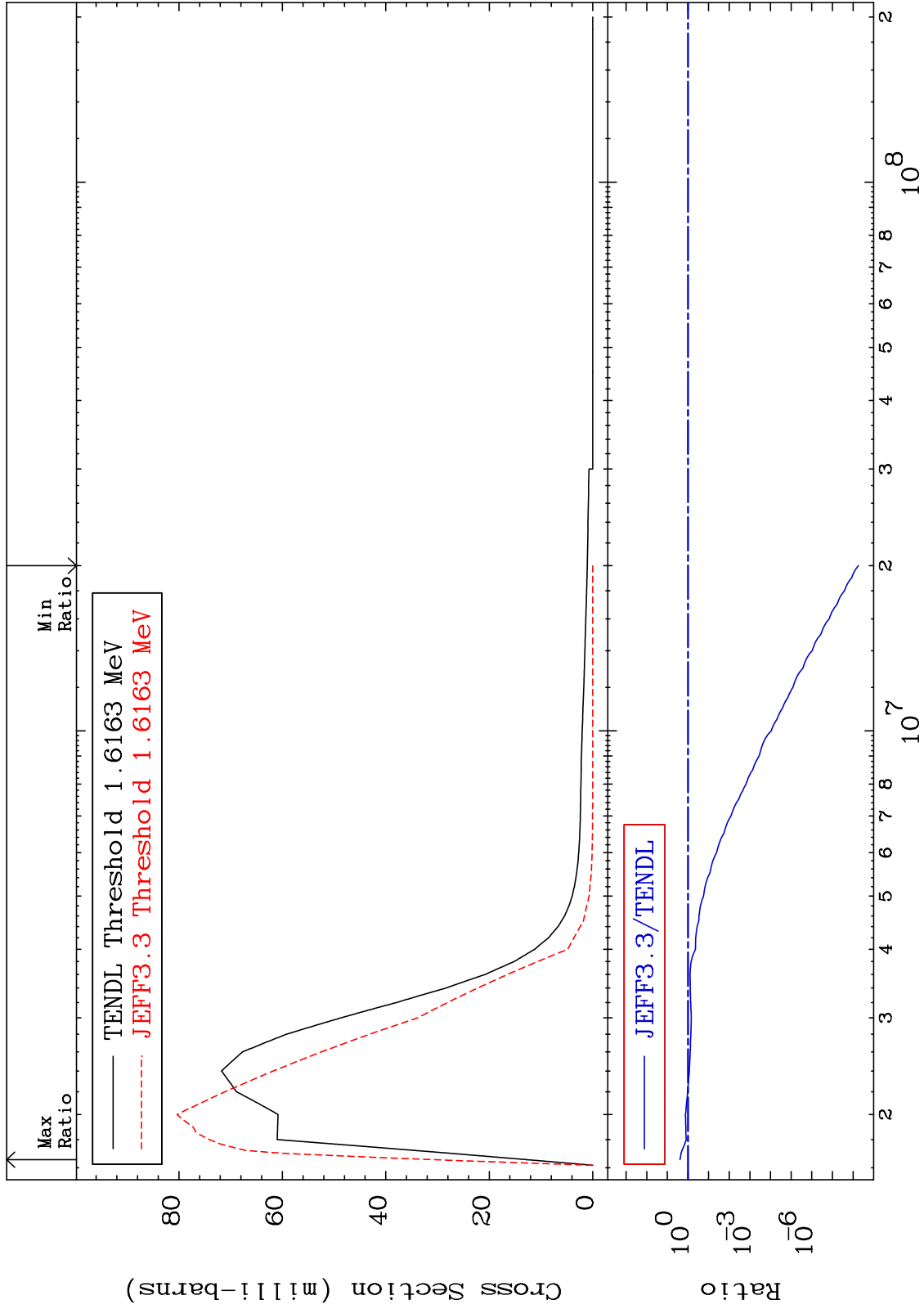
MAT 6425      MT= 65 (n,n') Level      64-Gd-152  
 Cross Section      -100.0 To 37.91 %



MAT 6425

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

64-Gd-152  
-100.0 To 142.7 %

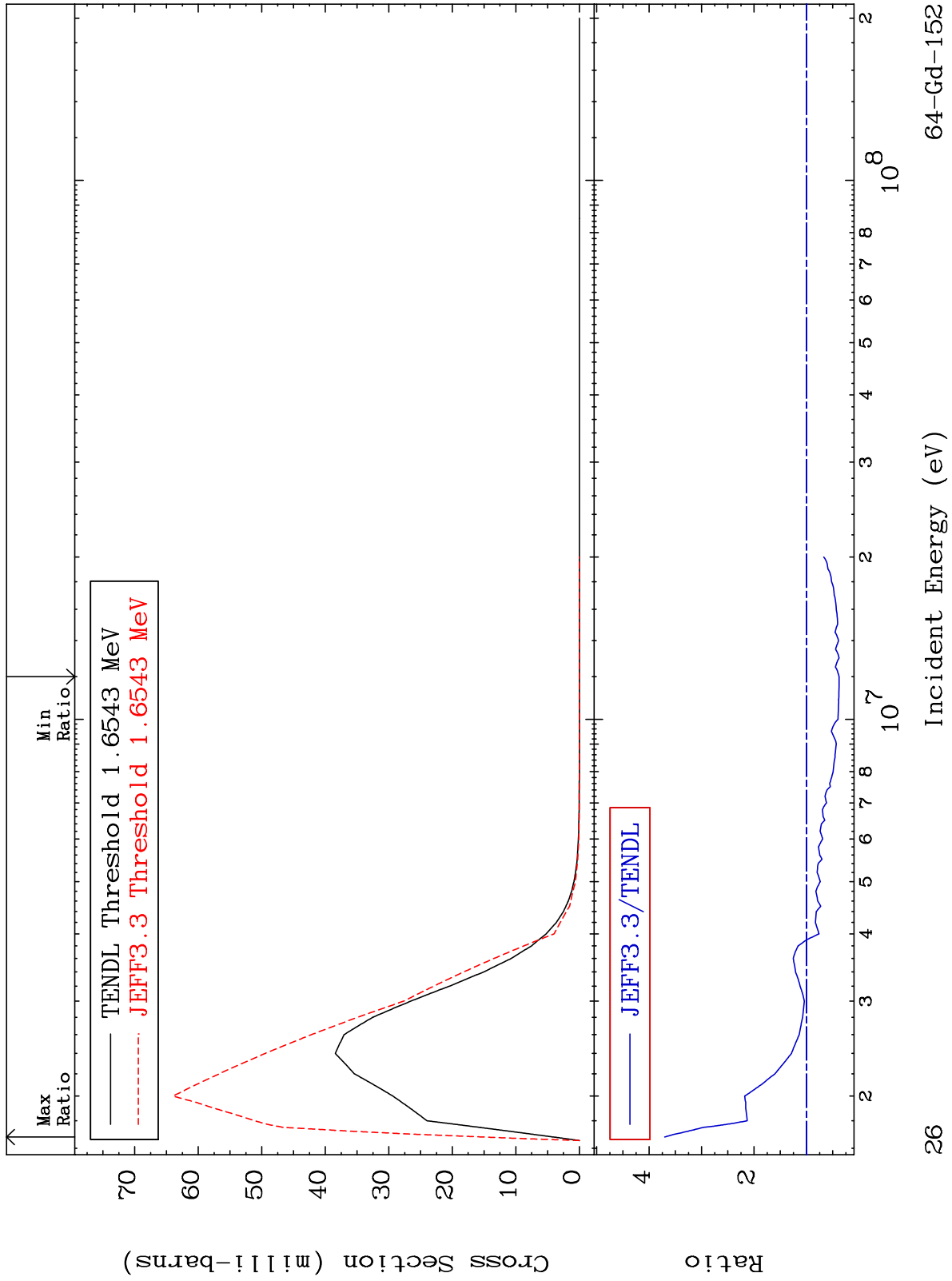


25

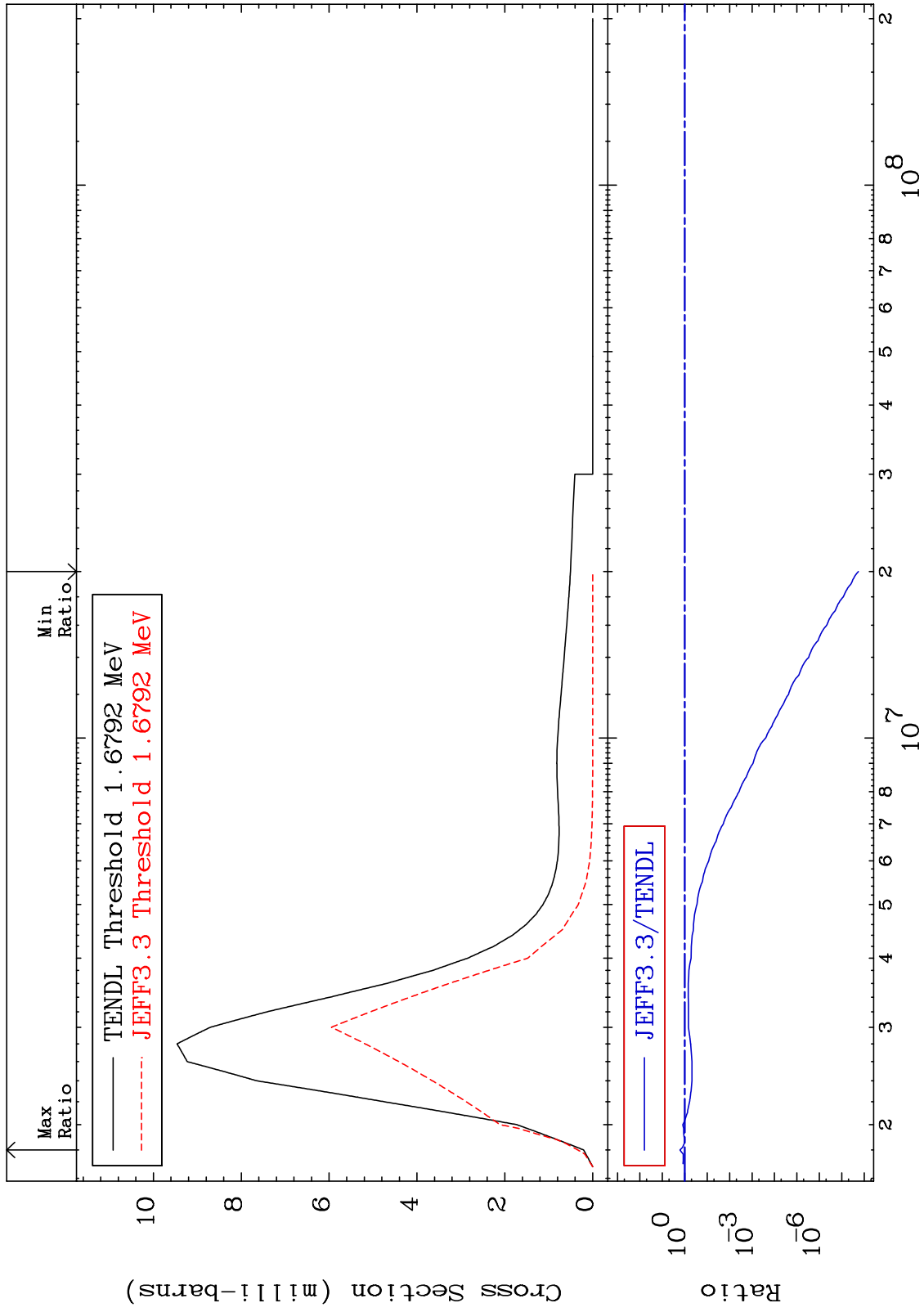
Incident Energy (eV)

64-Gd-152

MAT 6425 MT= 67 (n,n') Level Cross Section 64-Gd-152 -62.27 To 270.3 %



MAT 6425 MT= 68 (n,n') Level  
 Cross Section 64-Gd-152  
 -100.0 To 62.96 %



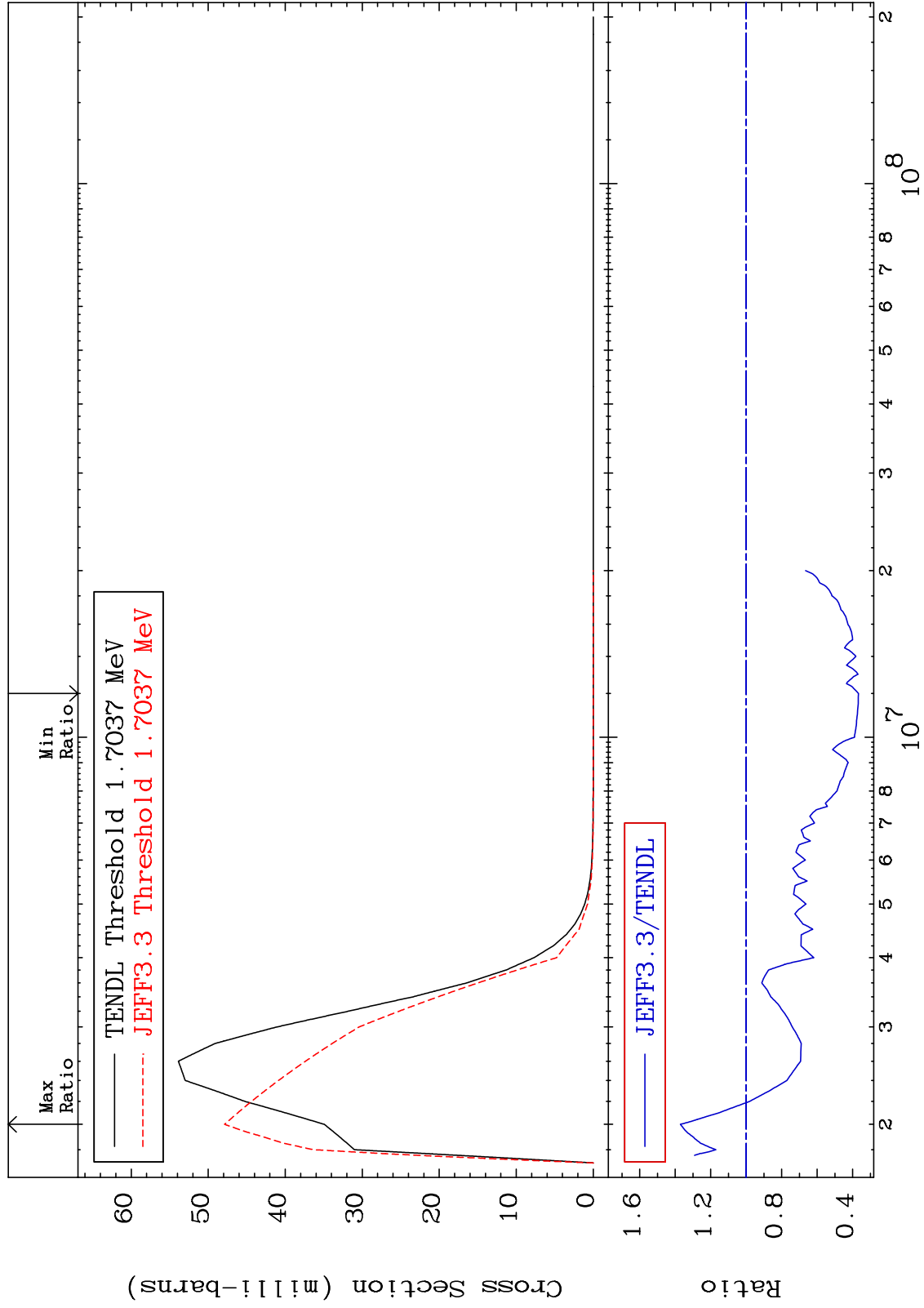
64-Gd-152

Incident Energy (eV)

MAT 6425

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

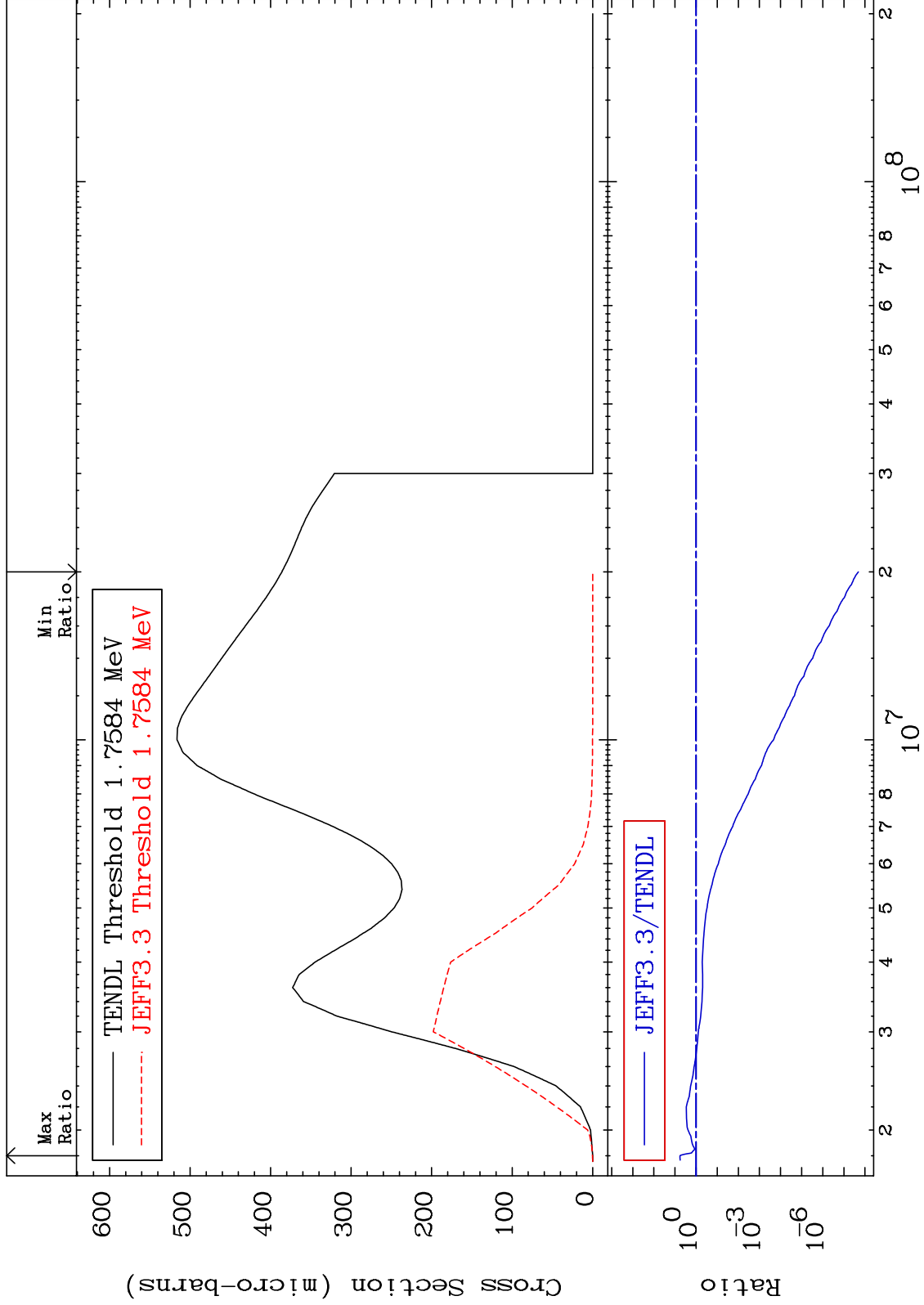
64-Gd-152  
-63.31 To 37.07 %



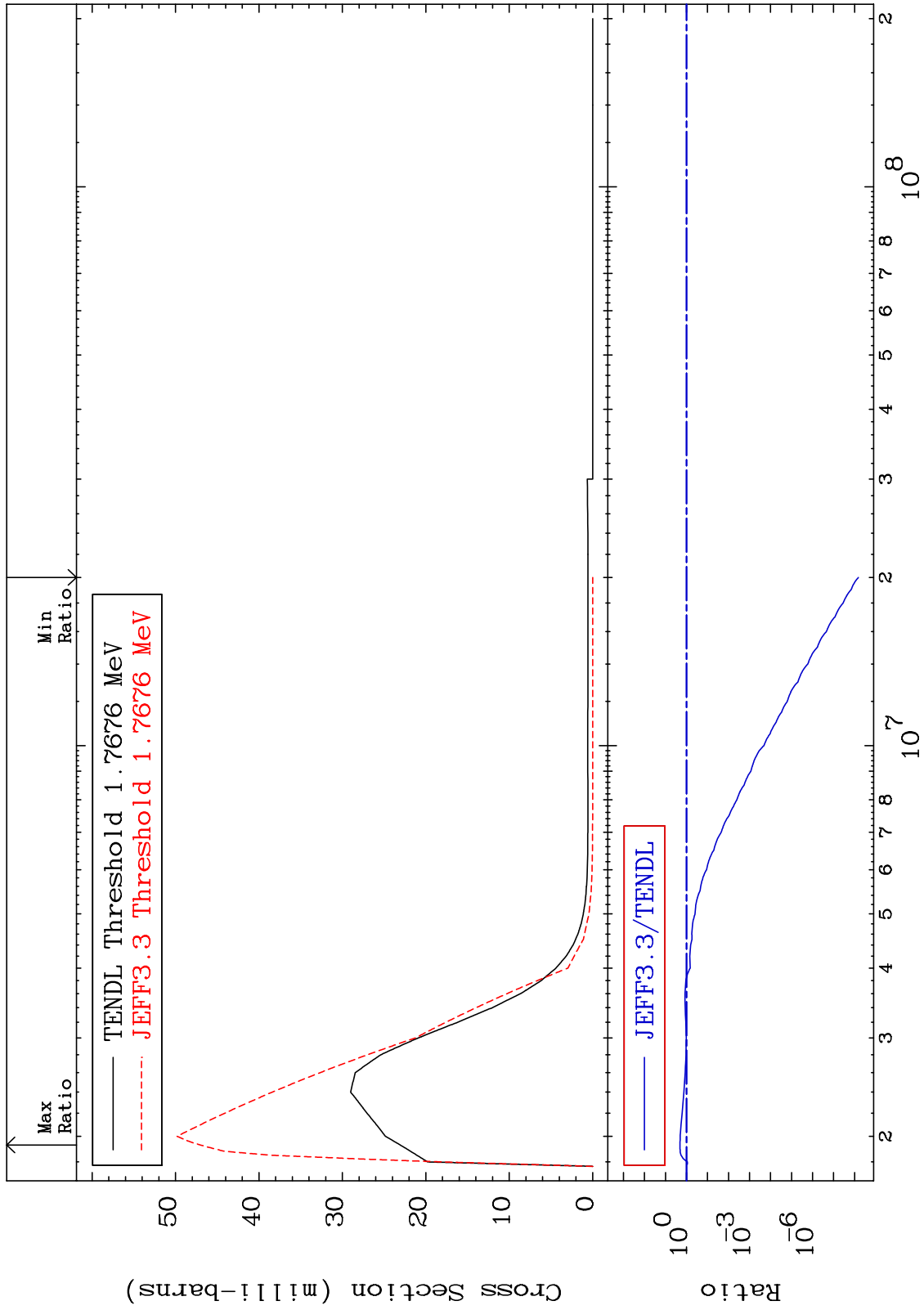
MAT 6425

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

64-Gd-152  
-100.0 To 478.3 %



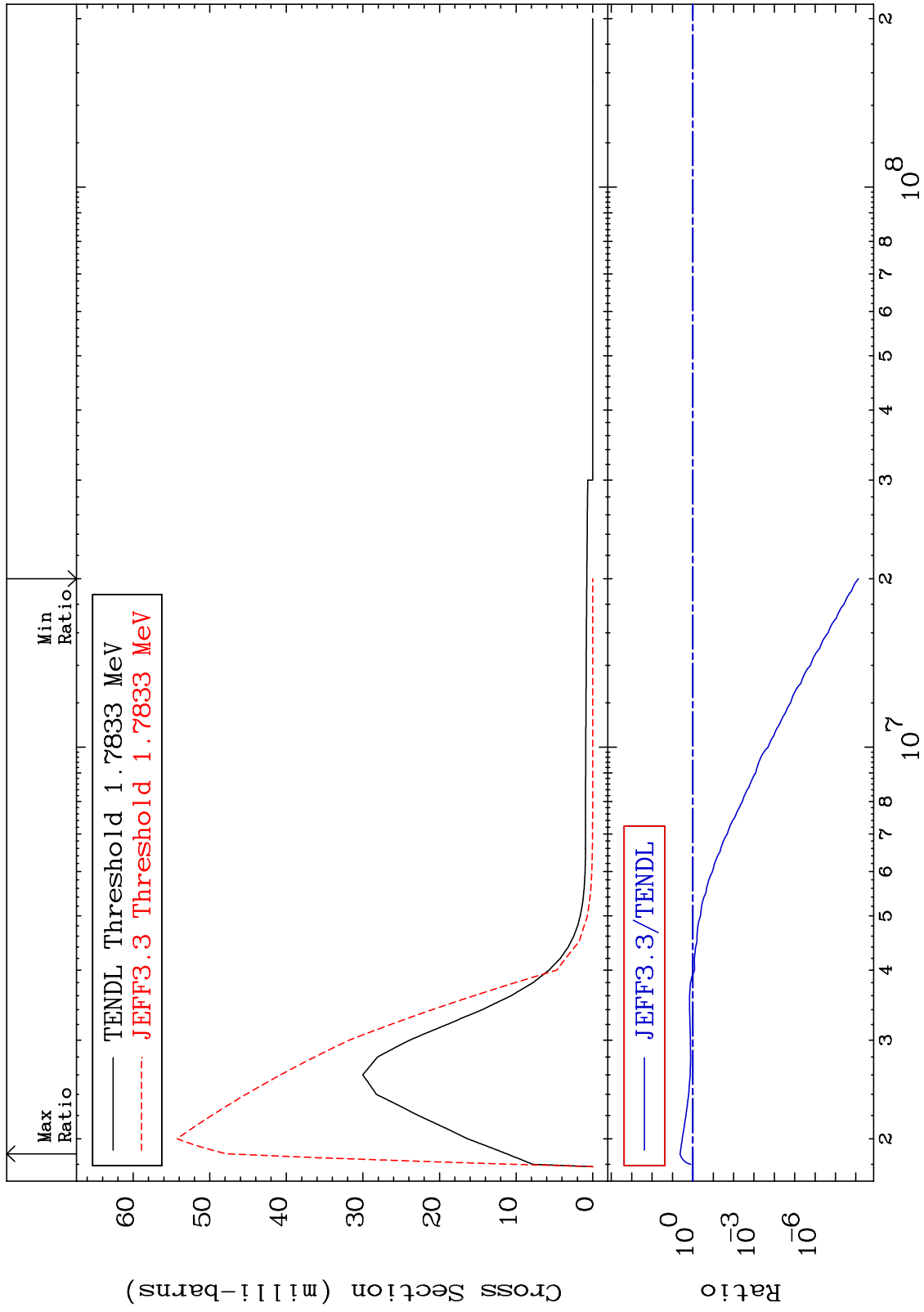
MAT 6425 MT= 71 (n,n') Level  
Cross Section 64-Gd-152  
-100.0 To 103.9 %



MAT 6425

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

64-Gd-152  
-100.0 To 325.7 %

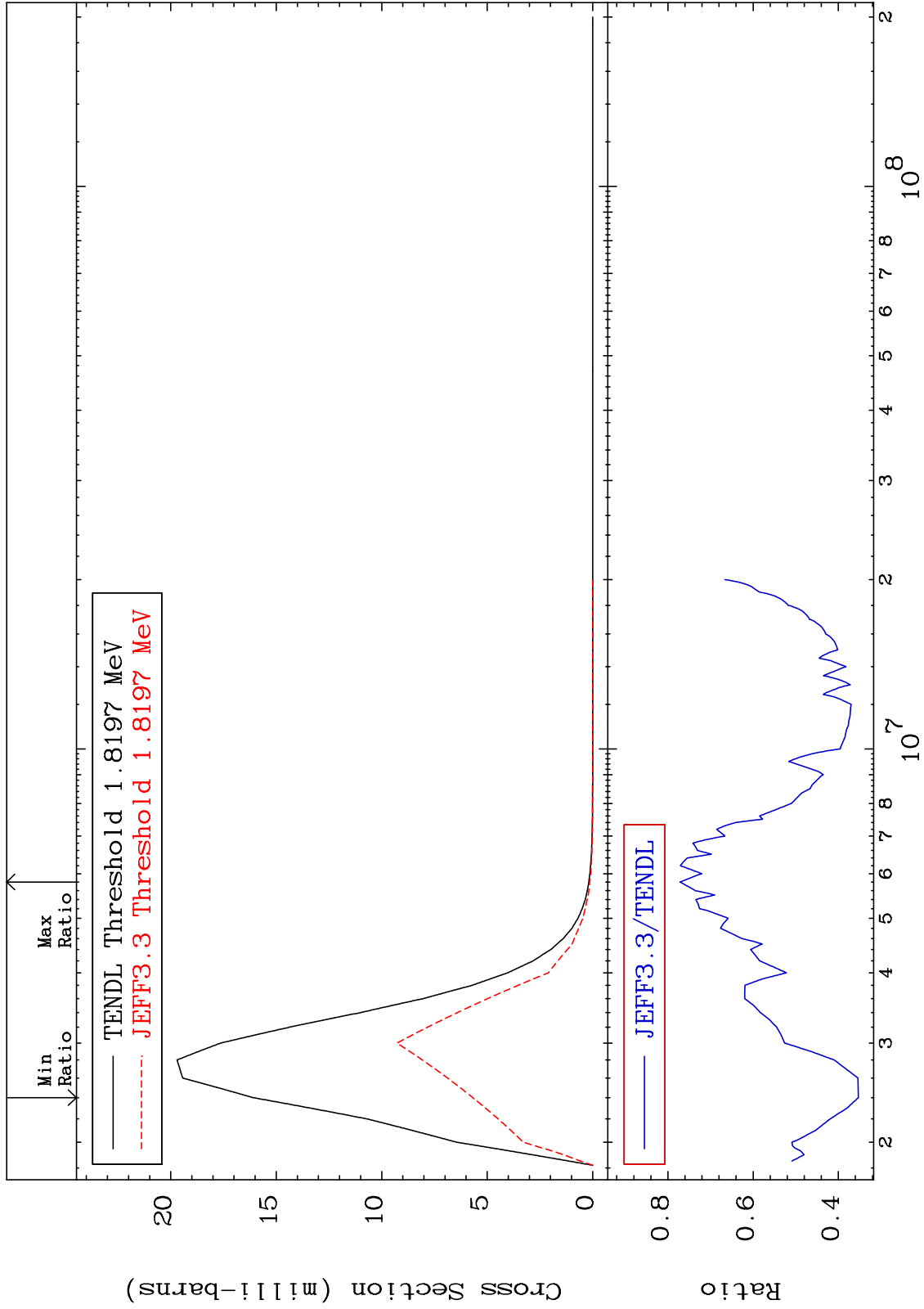




MAT 6425

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

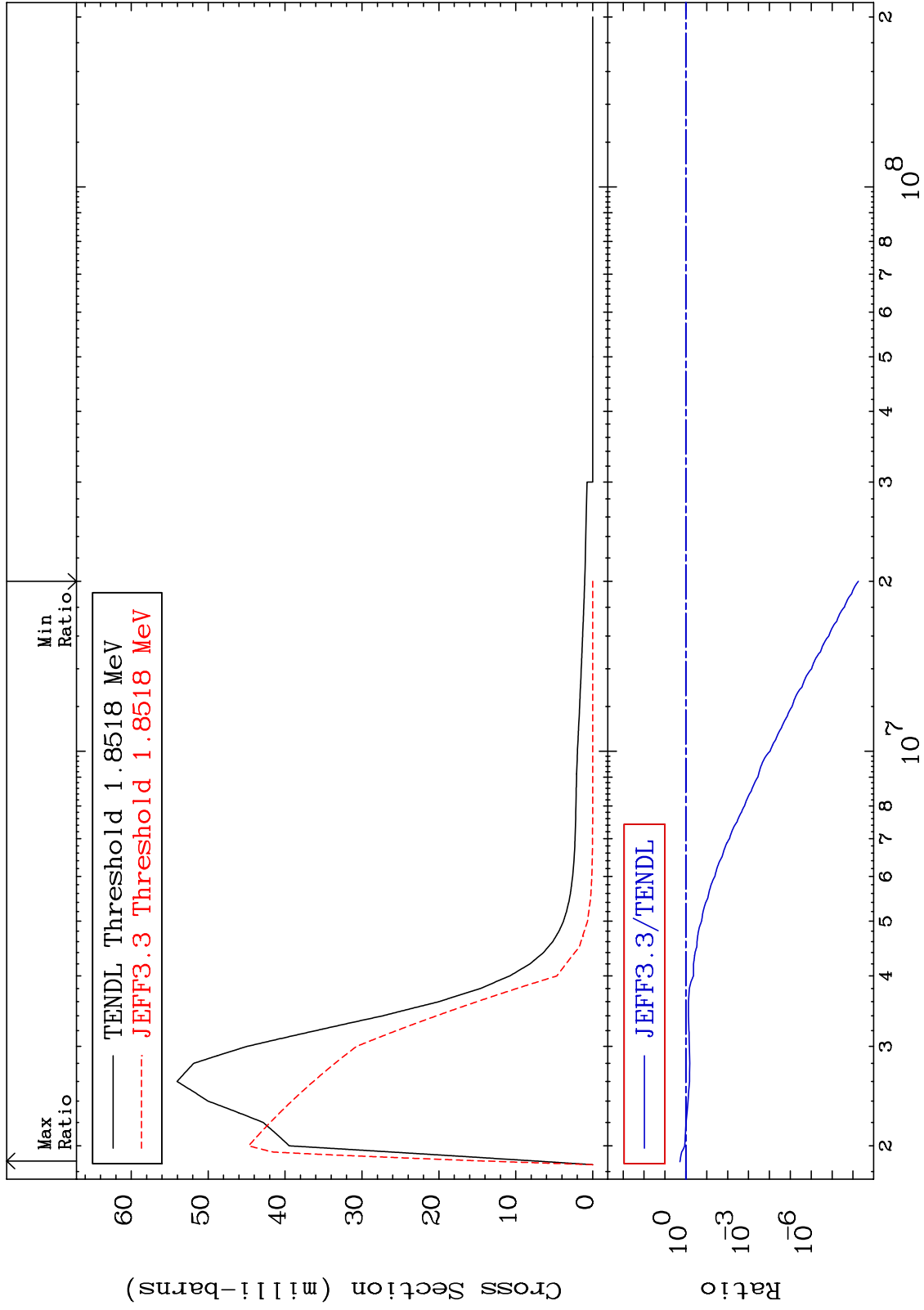
64-Gd-152  
-64.71 To -22.84%



MAT 6425

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

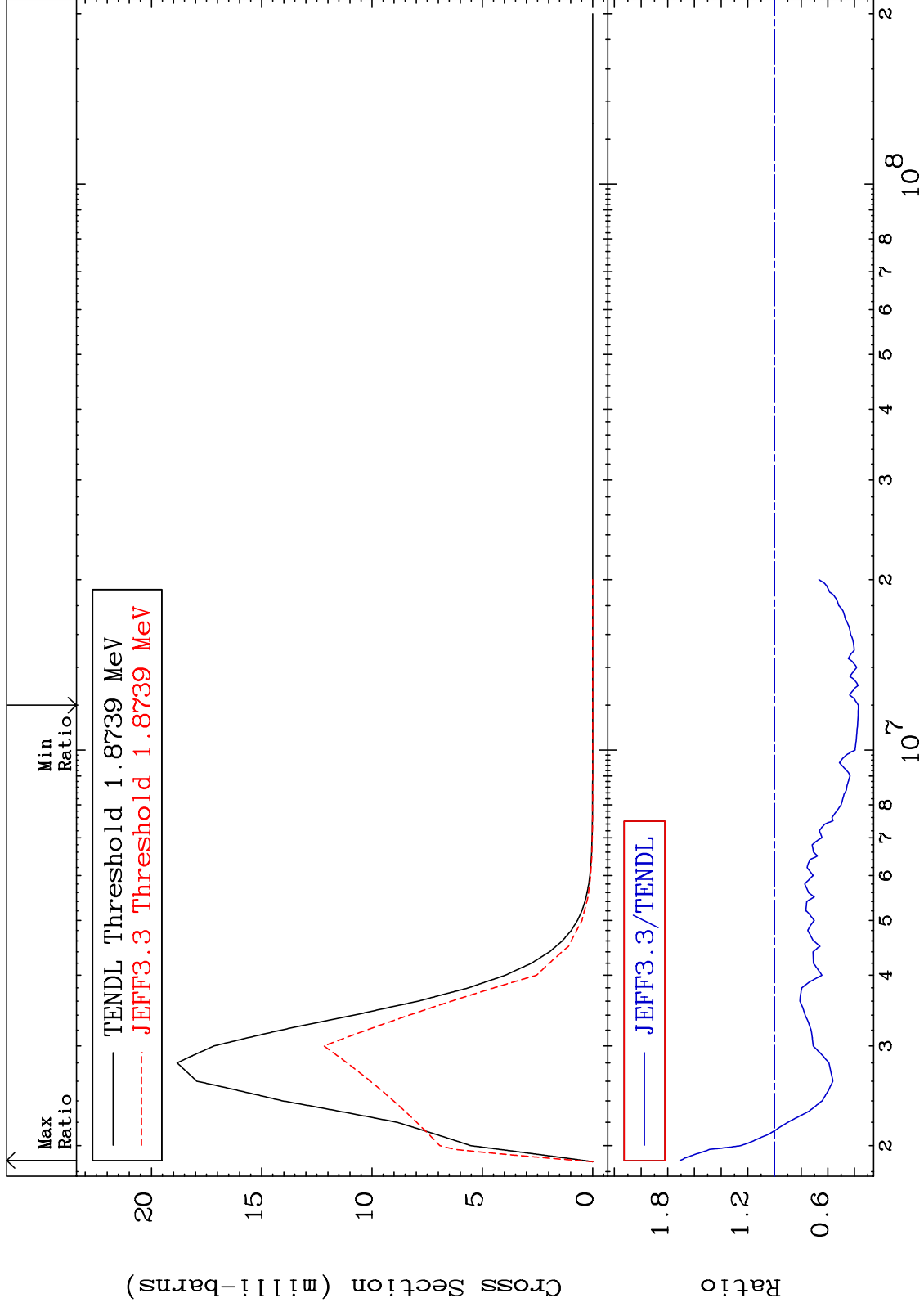
64-Gd-152  
-100.0 To 90.15 %



MAT 6425

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

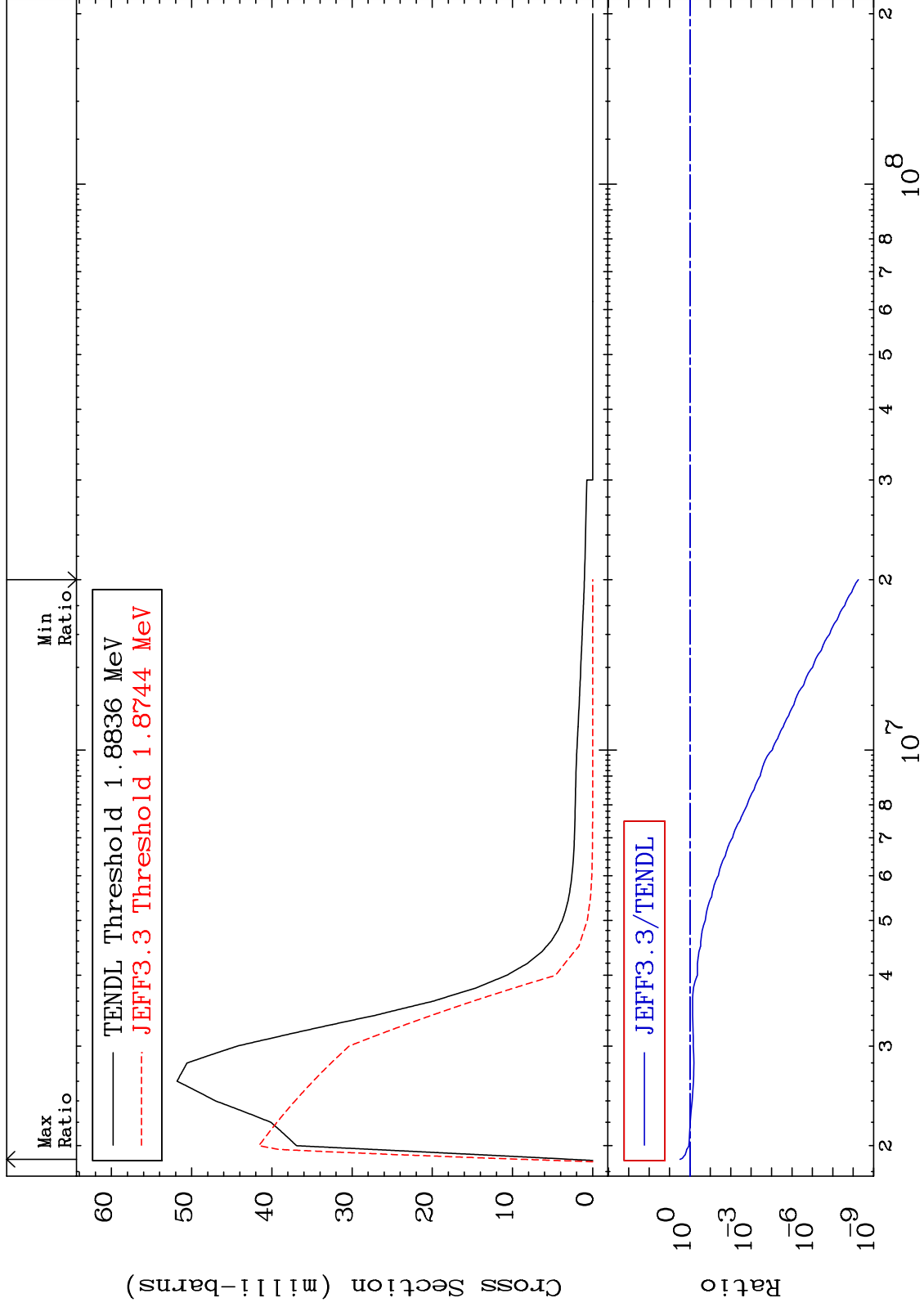
64-Gd-152  
-62.95 To 70.79 %



MAT 6425

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

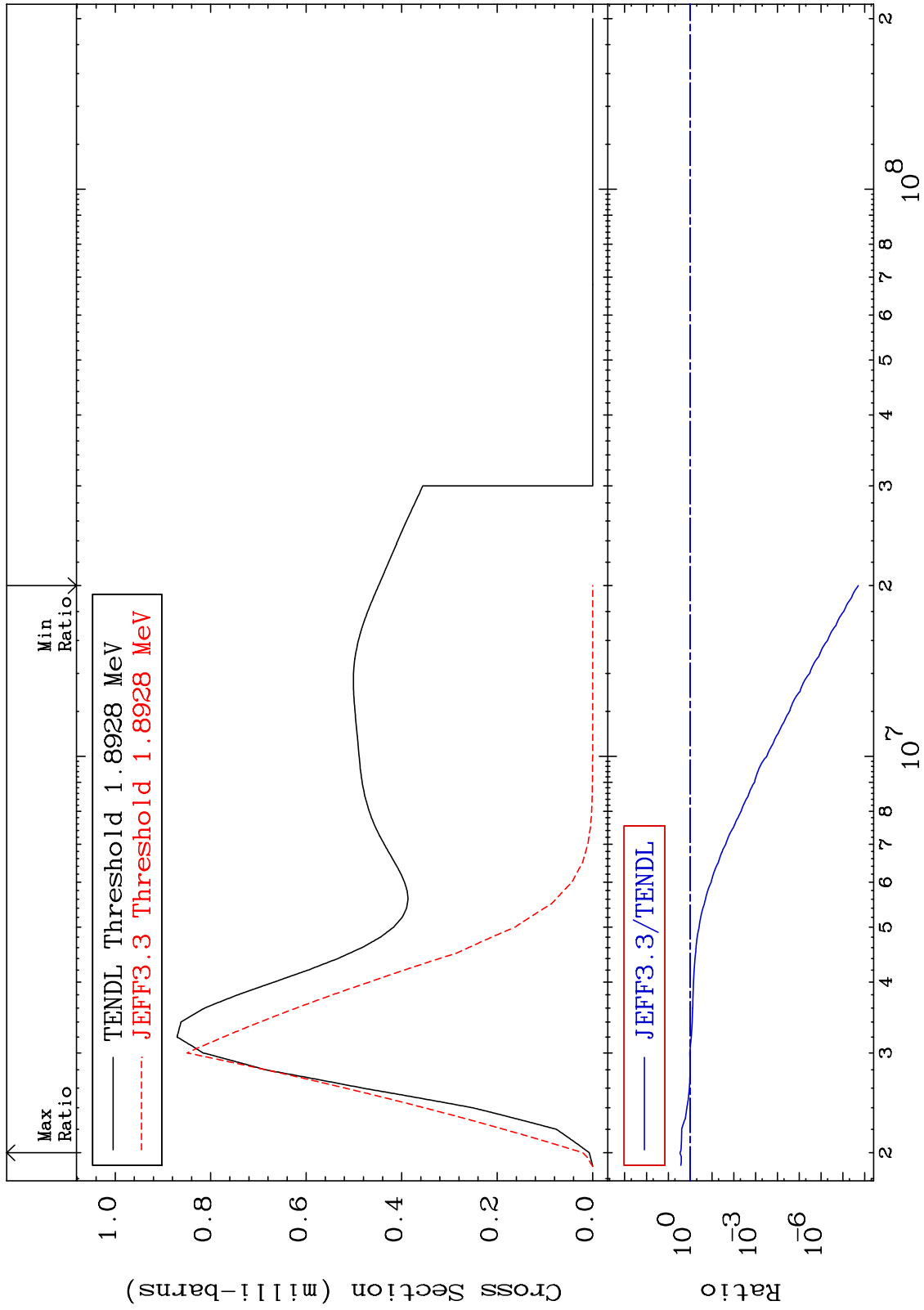
64-Gd-152  
-100.0 To 207.2 %



MAT 6425

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

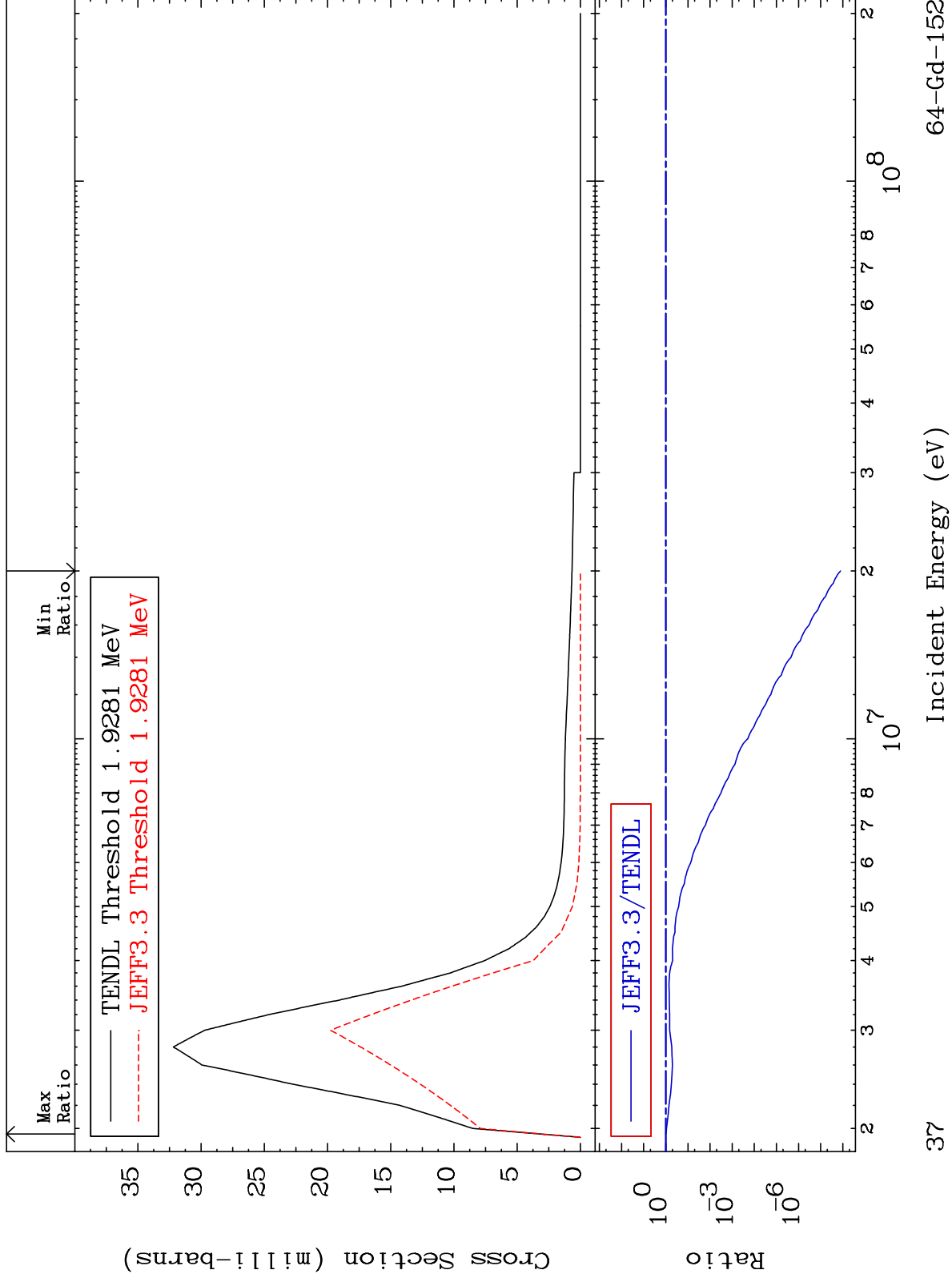
64-Gd-152  
-100.0 To 190.4 %



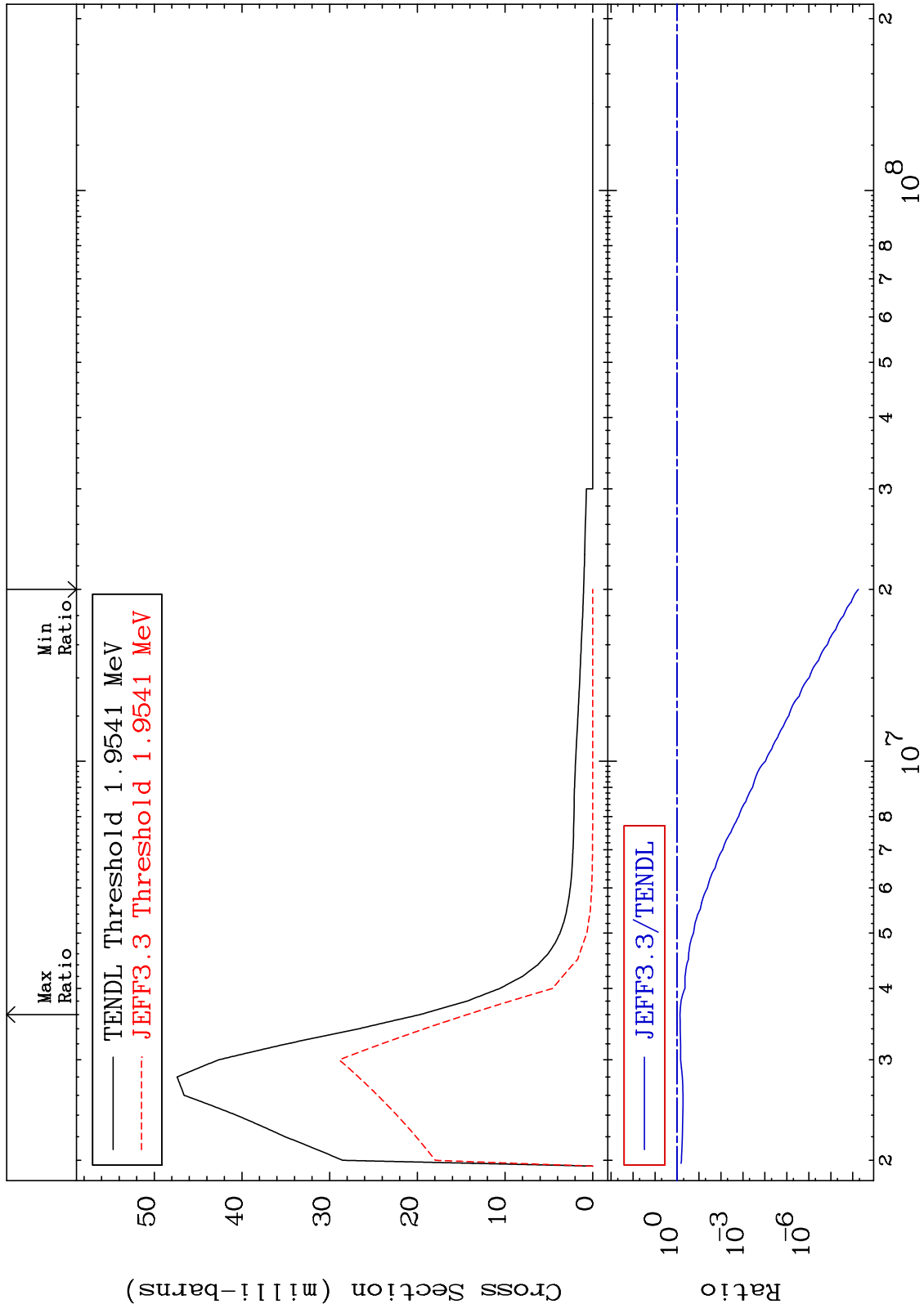
MAT 6425

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

64-Gd-152  
-100.0 To -0.623%



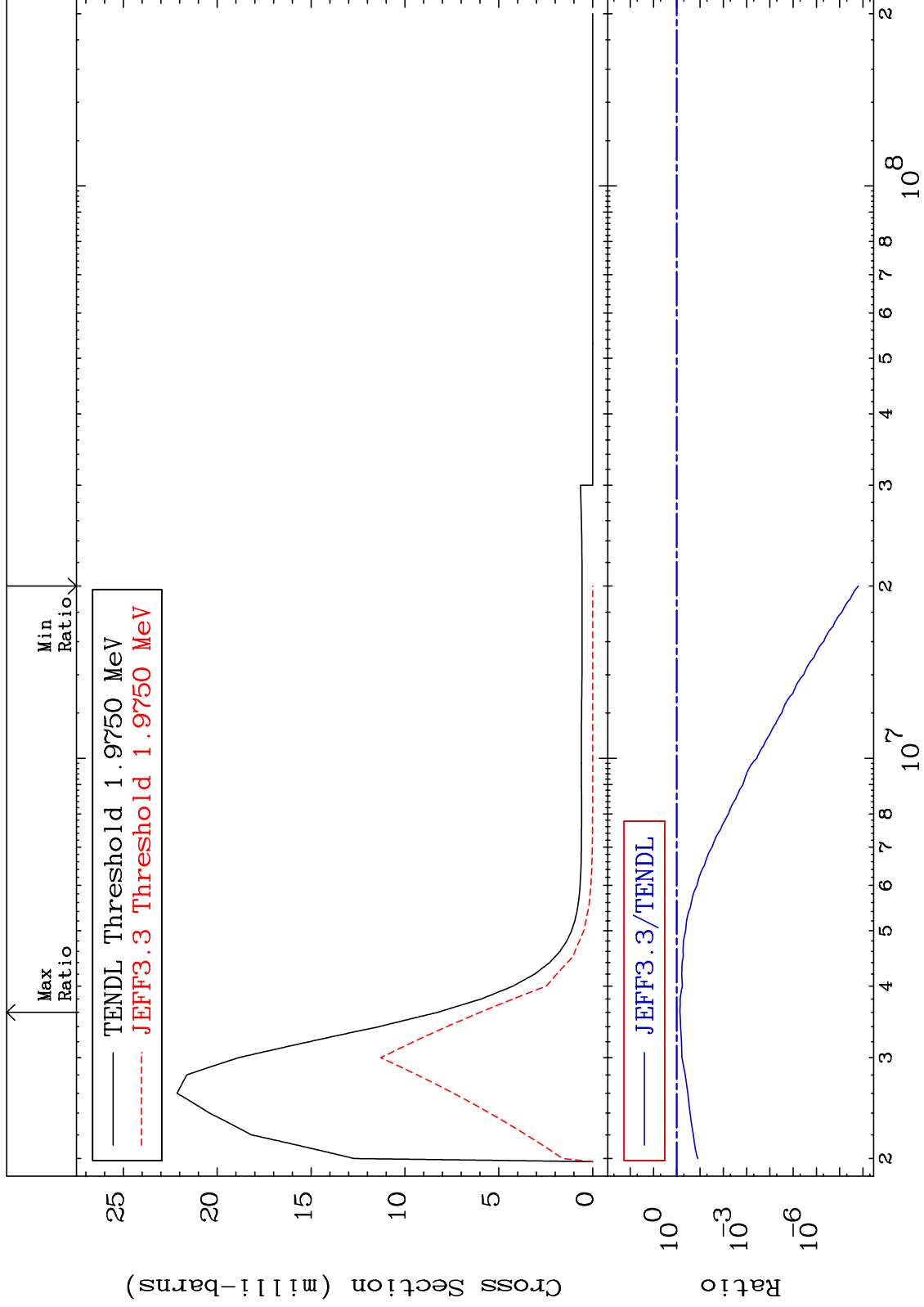
MAT 6425 MT= 79 (n, n') Level  
Cross Section 64-Gd-152  
-100.0 To -27.25%



MAT 6425

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

64-Gd-152  
-100.0 To -27.45%

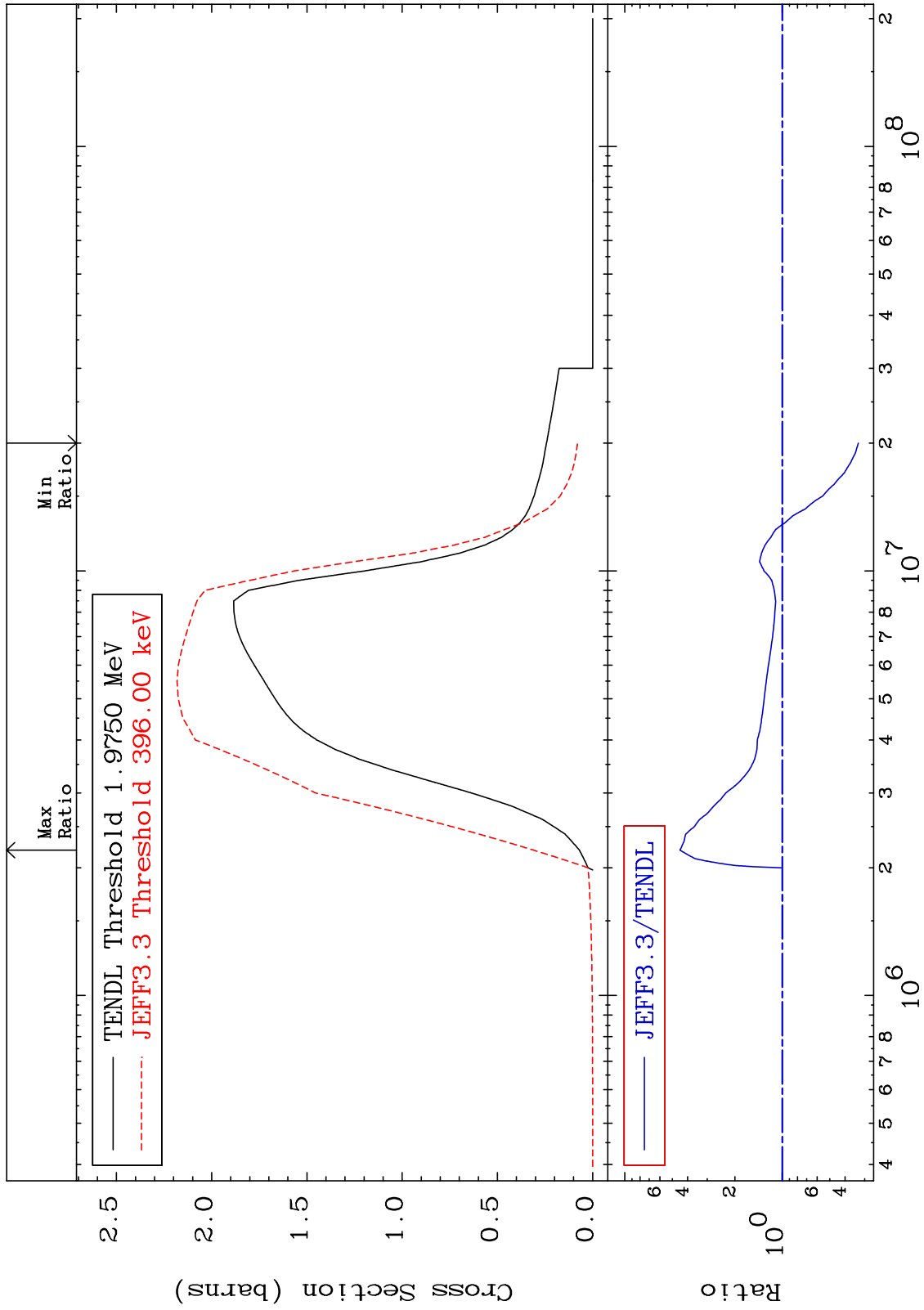




MAT 6425

(n, n') Continuum  
Cross Section

64-Gd-152  
-67.14 To 346.4 %



40

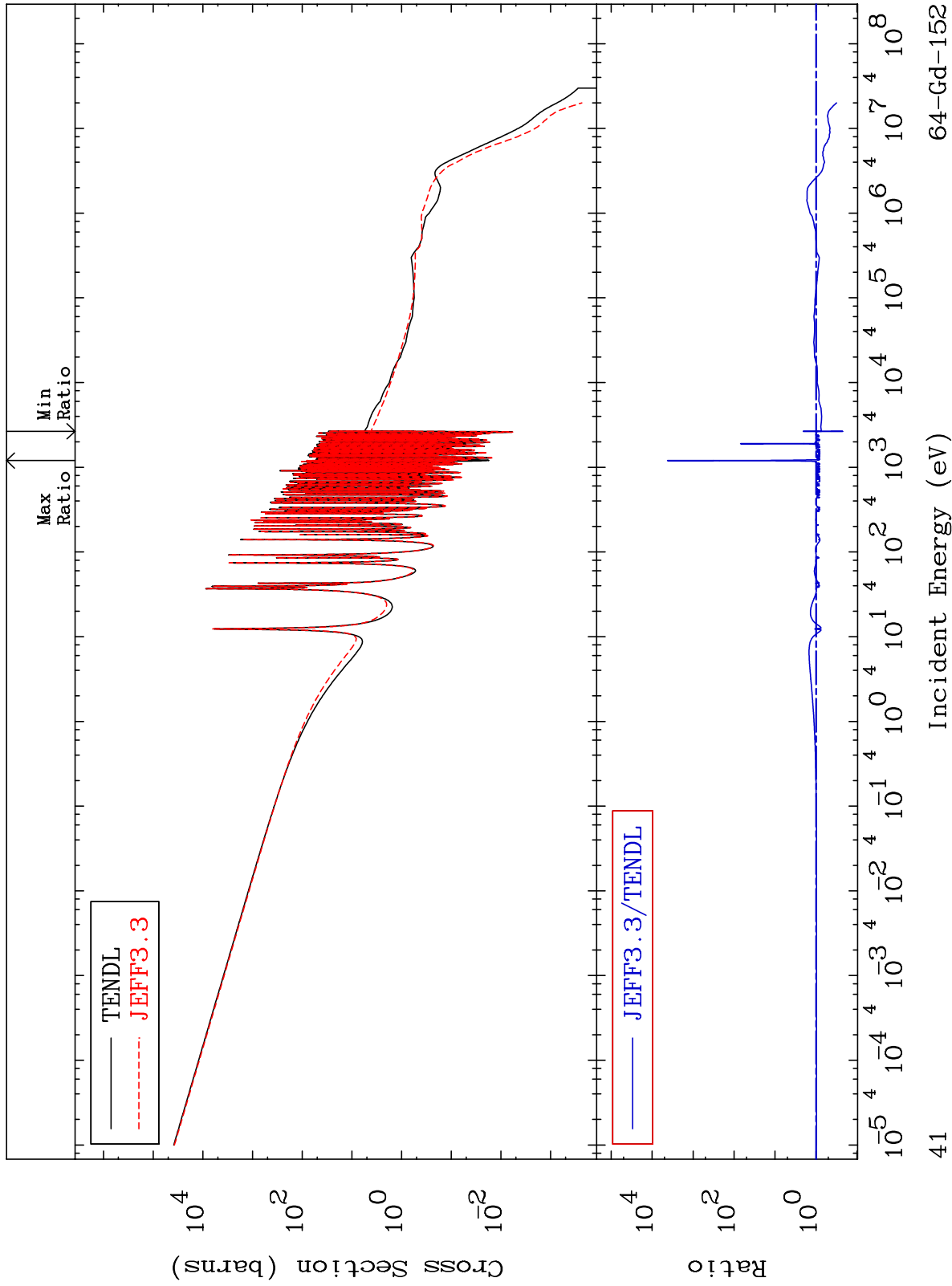
Incident Energy (eV)

64-Gd-152

MAT 6425

(n,  $\gamma$ )  
Cross Section

64-Gd-152  
-77.61 To 9999. %



41

64-Gd-152

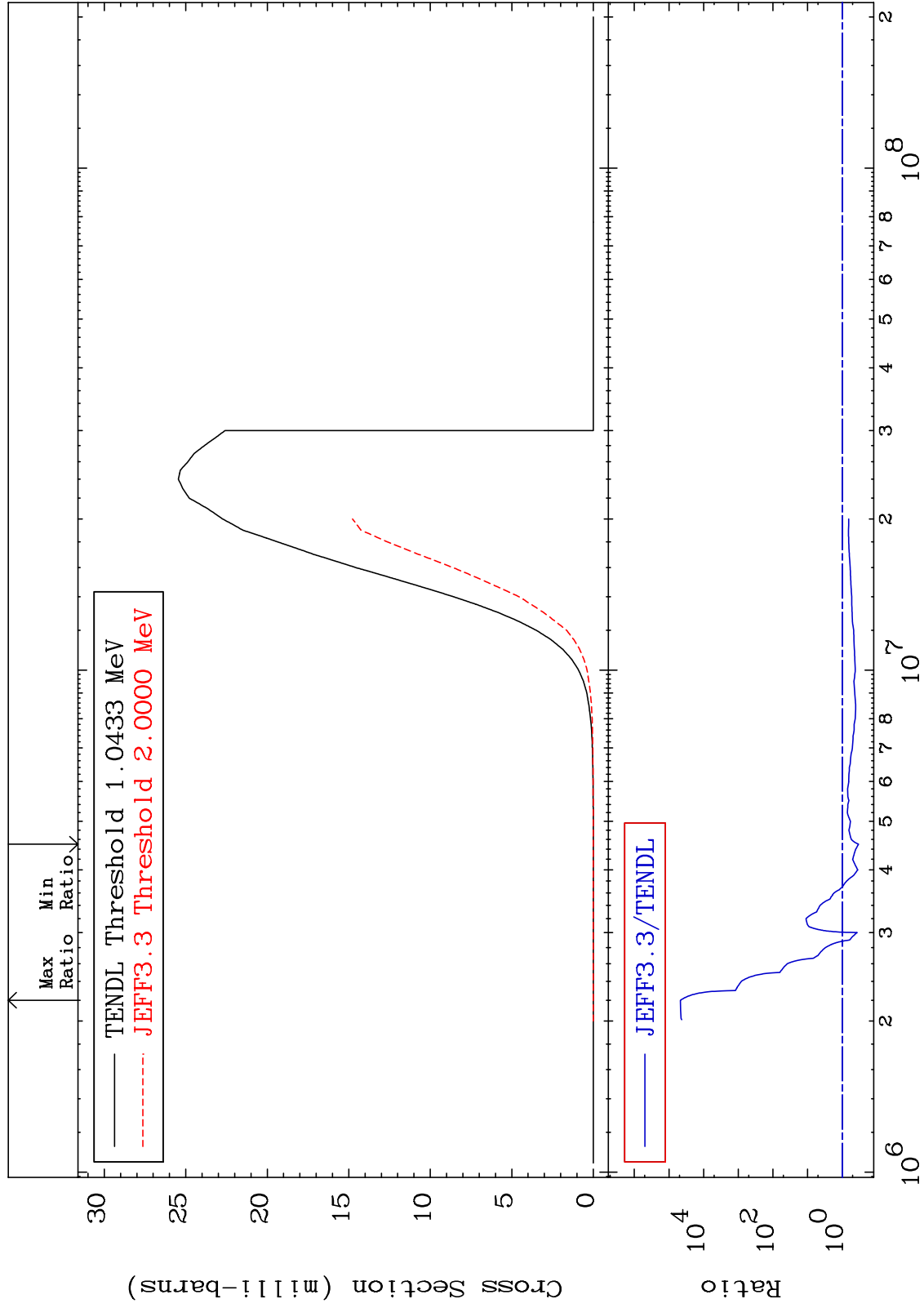
MAT 6425

(n, p)

64-Gd-152

Cross Section

-66.05 To 9999. %



Incident Energy (eV)

64-Gd-152

42

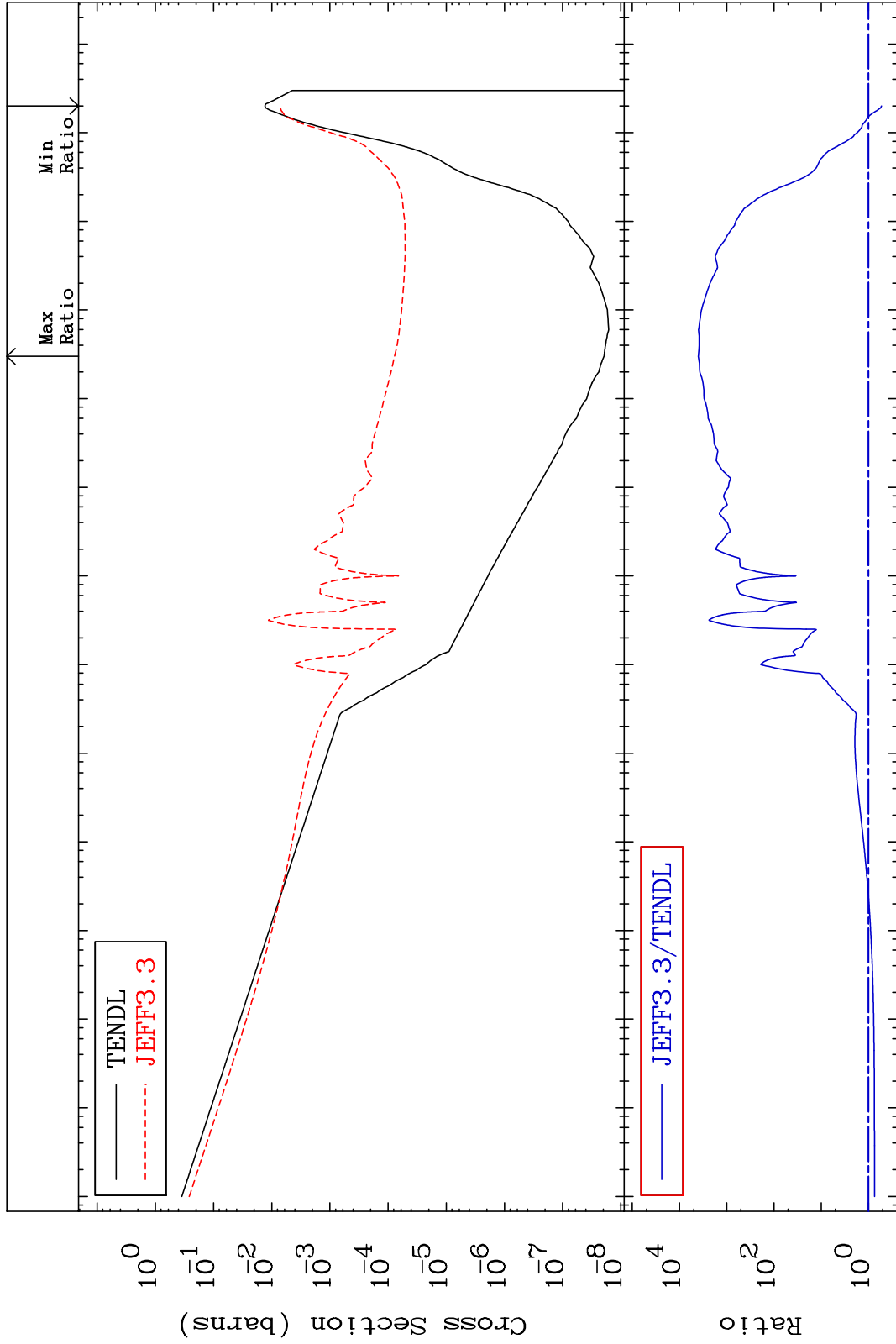
MAT 6425

(n,  $\alpha$ )

64-Gd-152

Cross Section

-47.23 To 9999. %

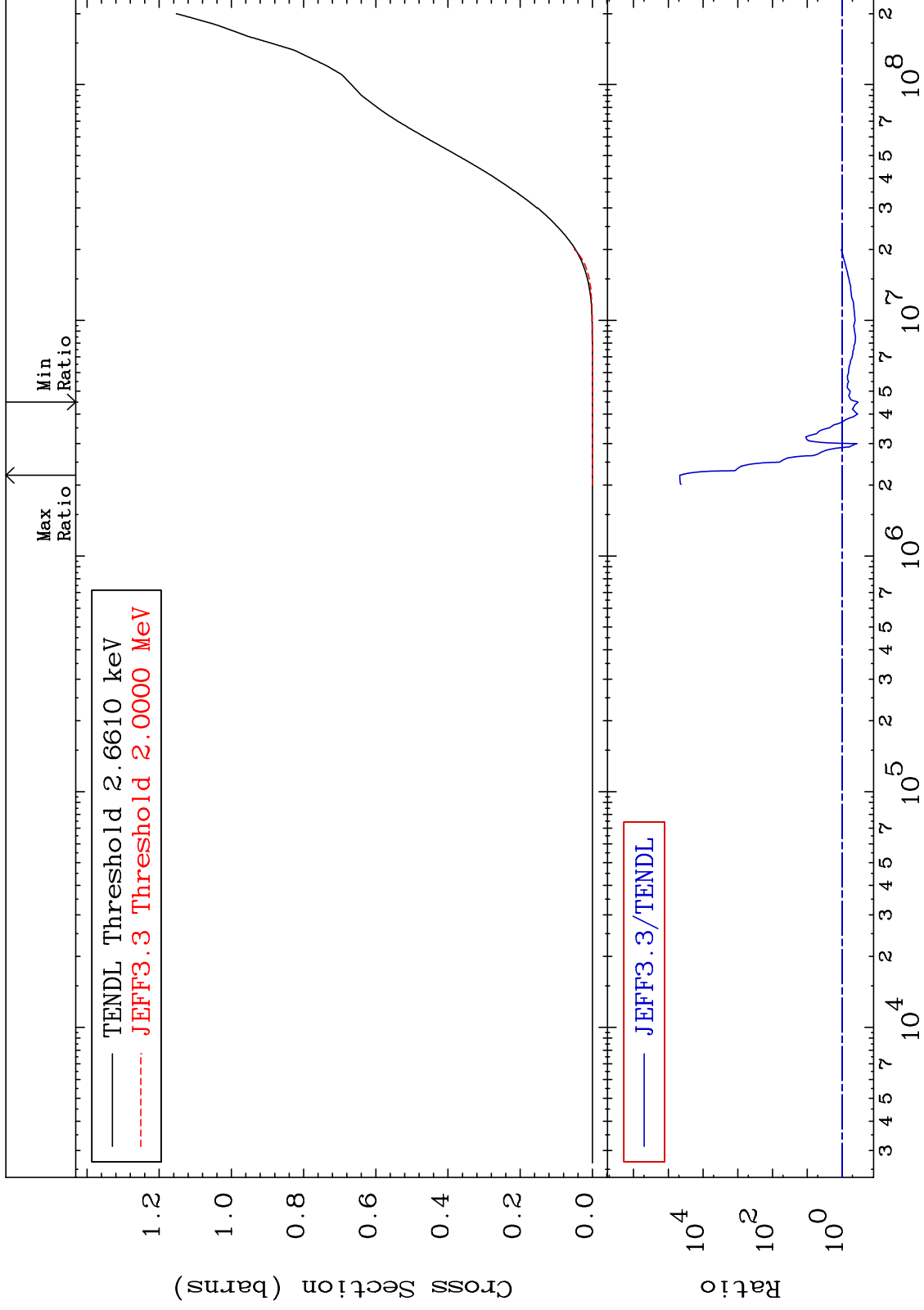


Incident Energy (eV) 64-Gd-152

MAT 6425

Hydrogen Production  
Cross Section

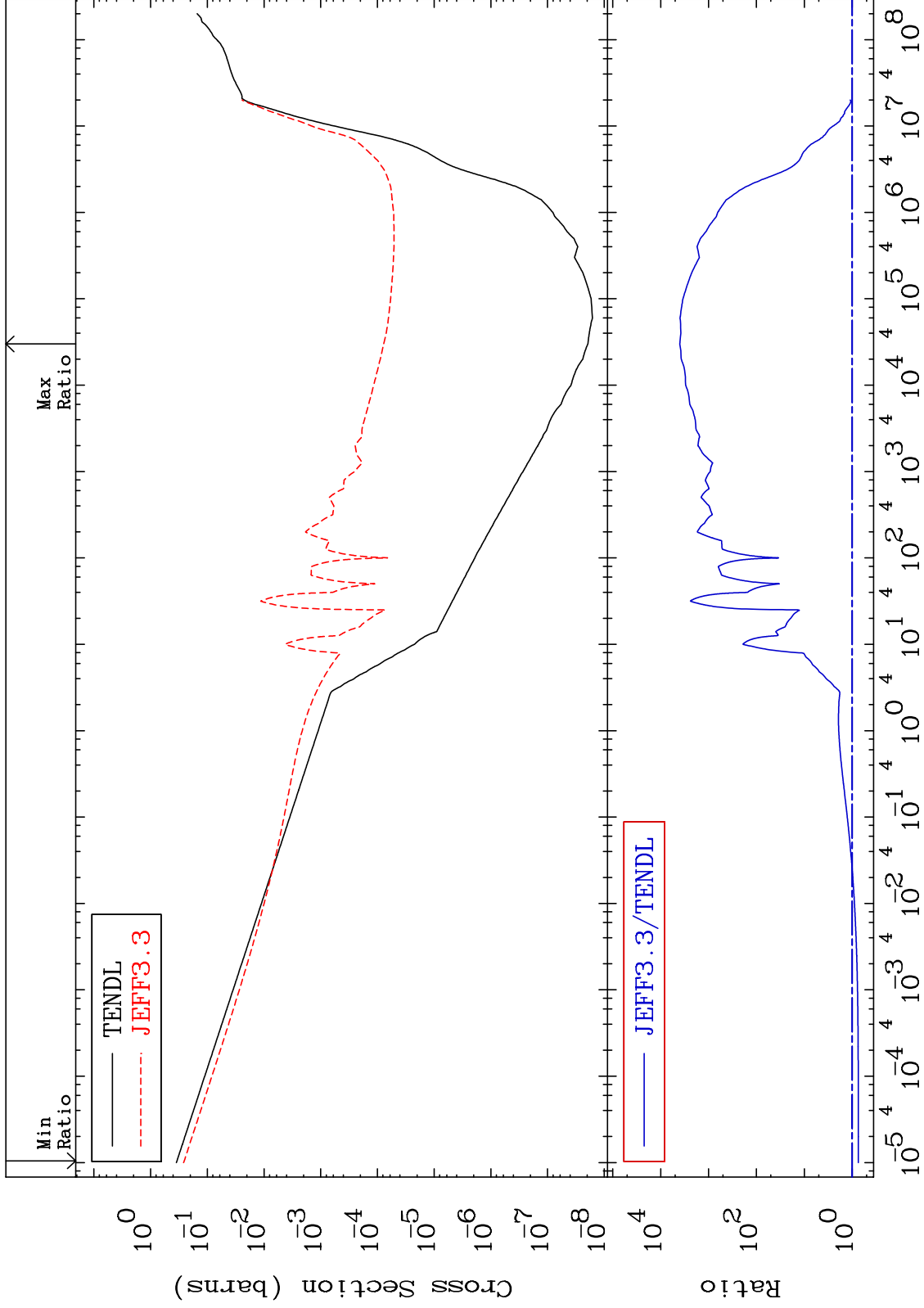
64-Gd-152  
-66.05 To 9999. %



MAT 6425

He-4 Production  
Cross Section

64-Gd-152  
-25.57 To 9999. %



45

Incident Energy (eV)

64-Gd-152

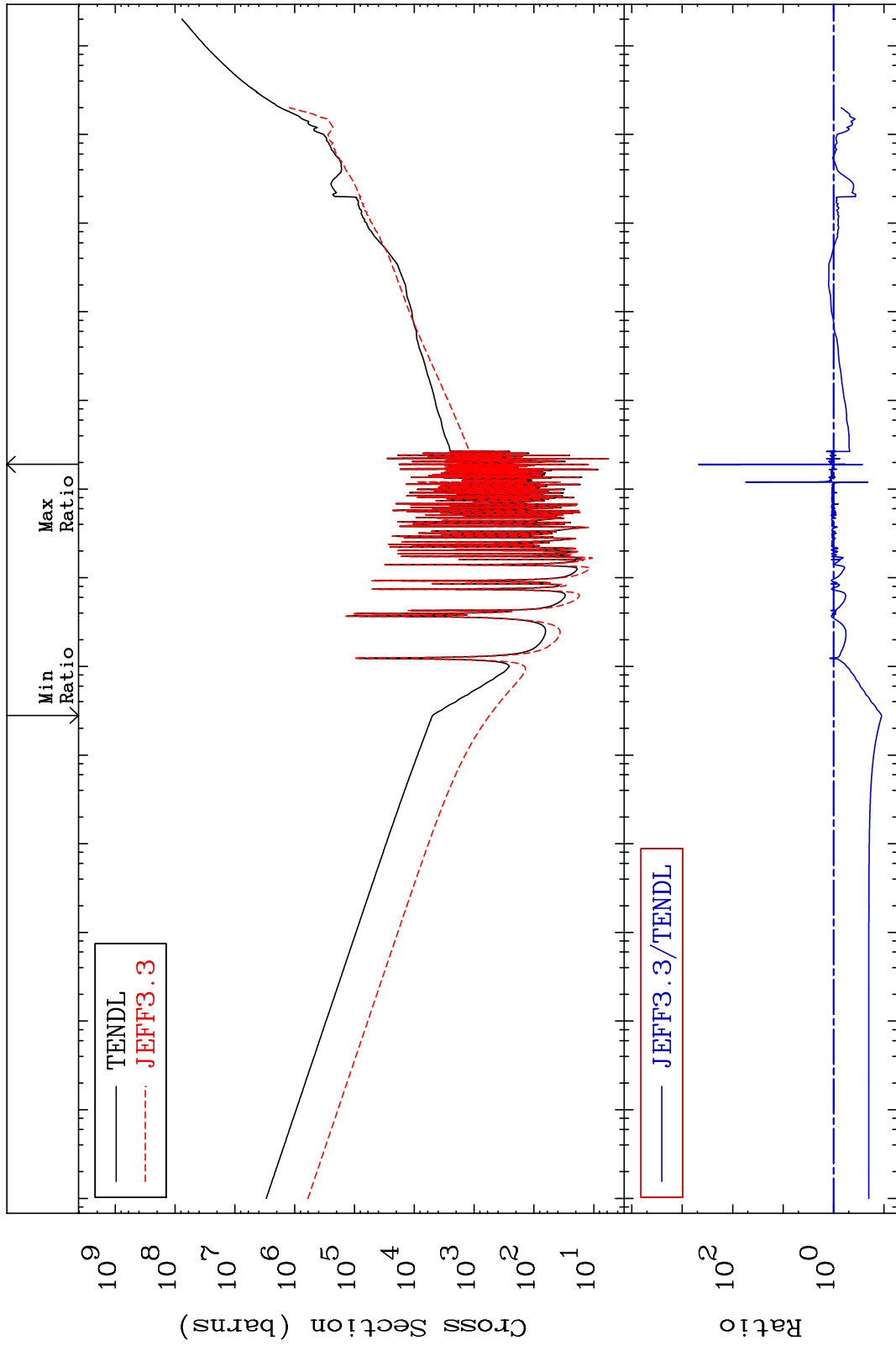
MAT 6425

Kerma total (eV-barns)

64-Gd-152

-88.80 To 9999. %

Cross Section



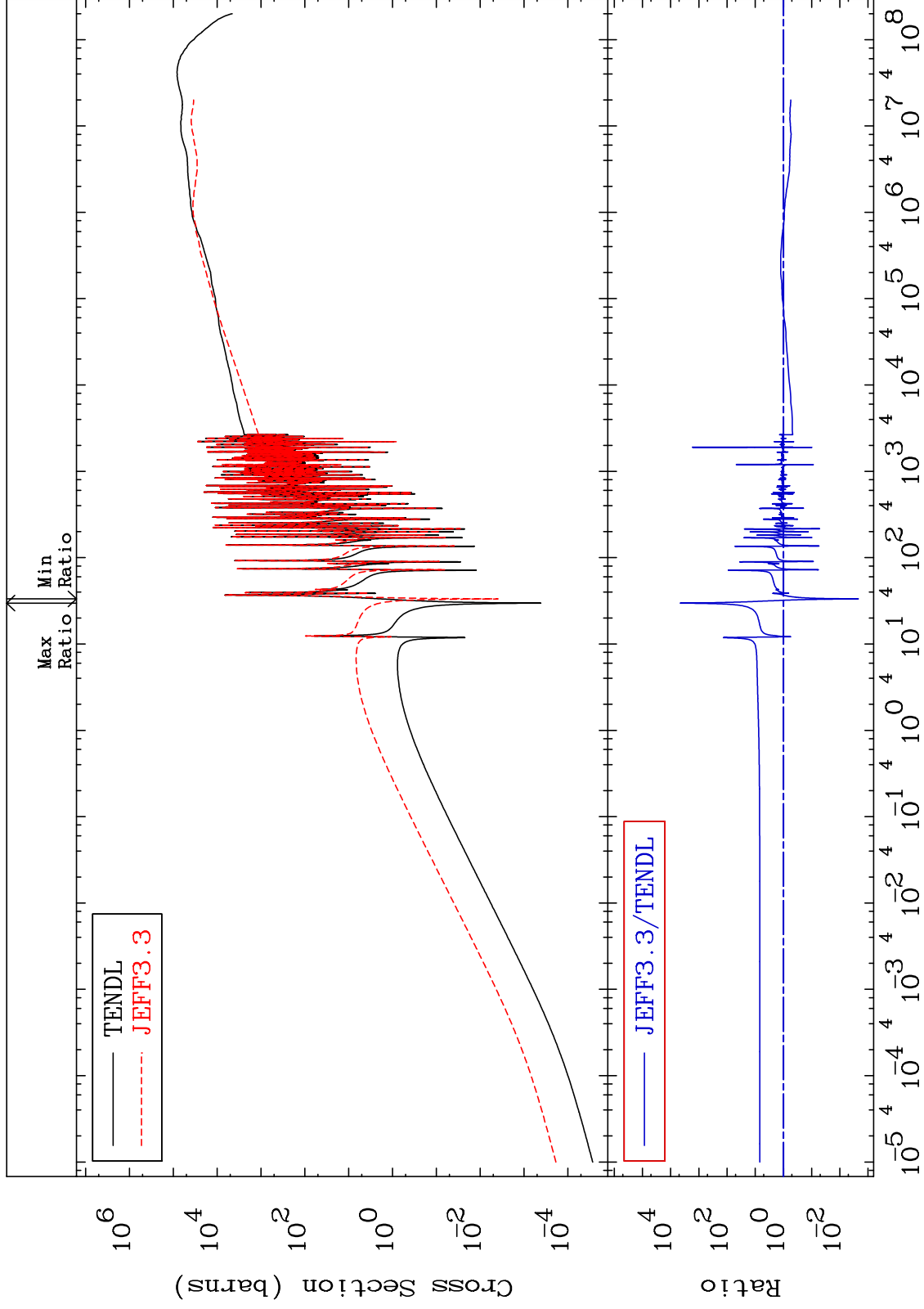
Incident Energy (eV)

64-Gd-152

MAT 6425

Kerma elastic  
Cross Section

64-Gd-152  
-99.78 To 9999. %



47

Incident Energy (eV)

64-Gd-152



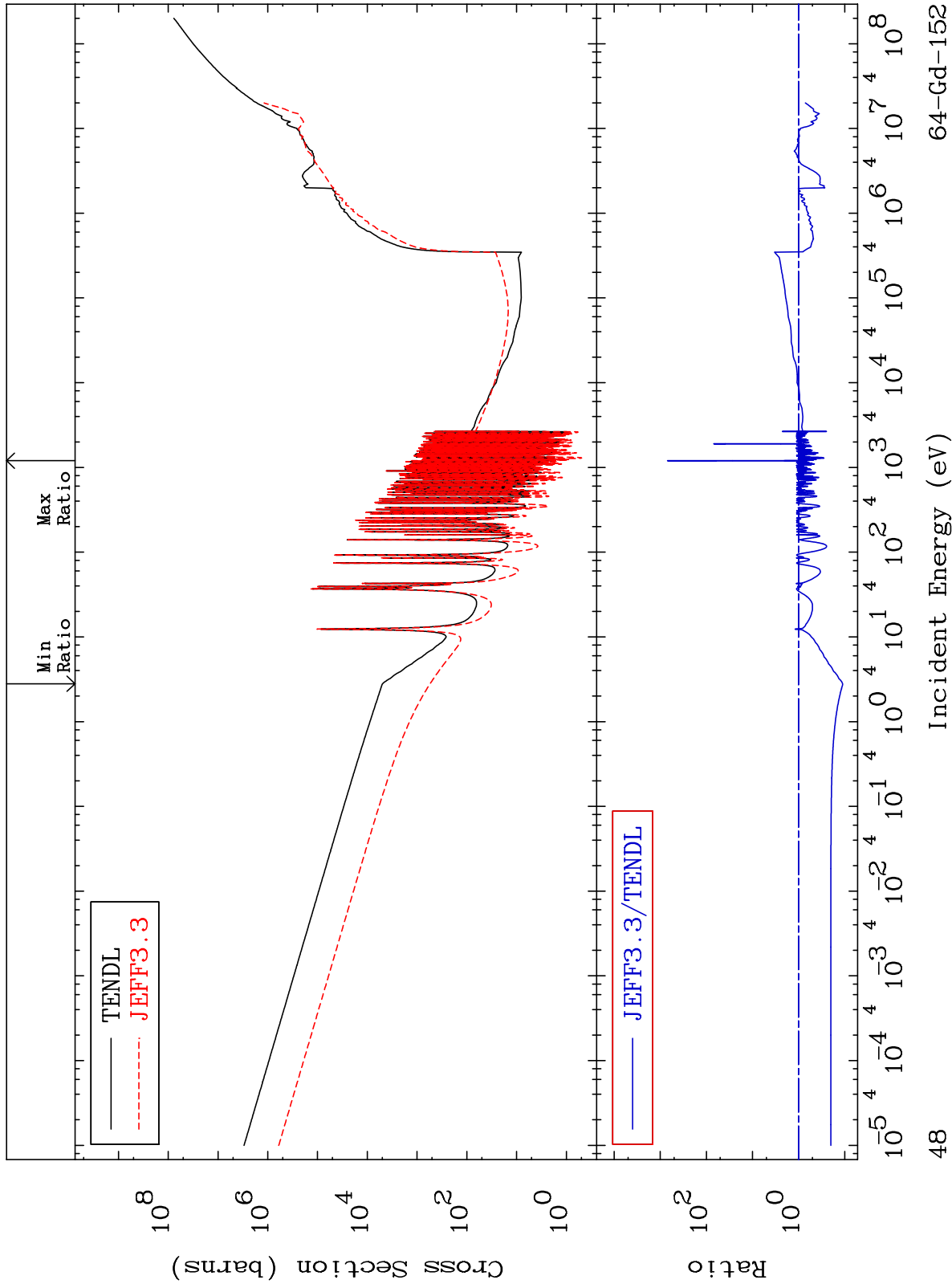
MAT 6425

Kerma non-elastic (all but mt2)

64-Gd-152

-88.91 To 9999. %

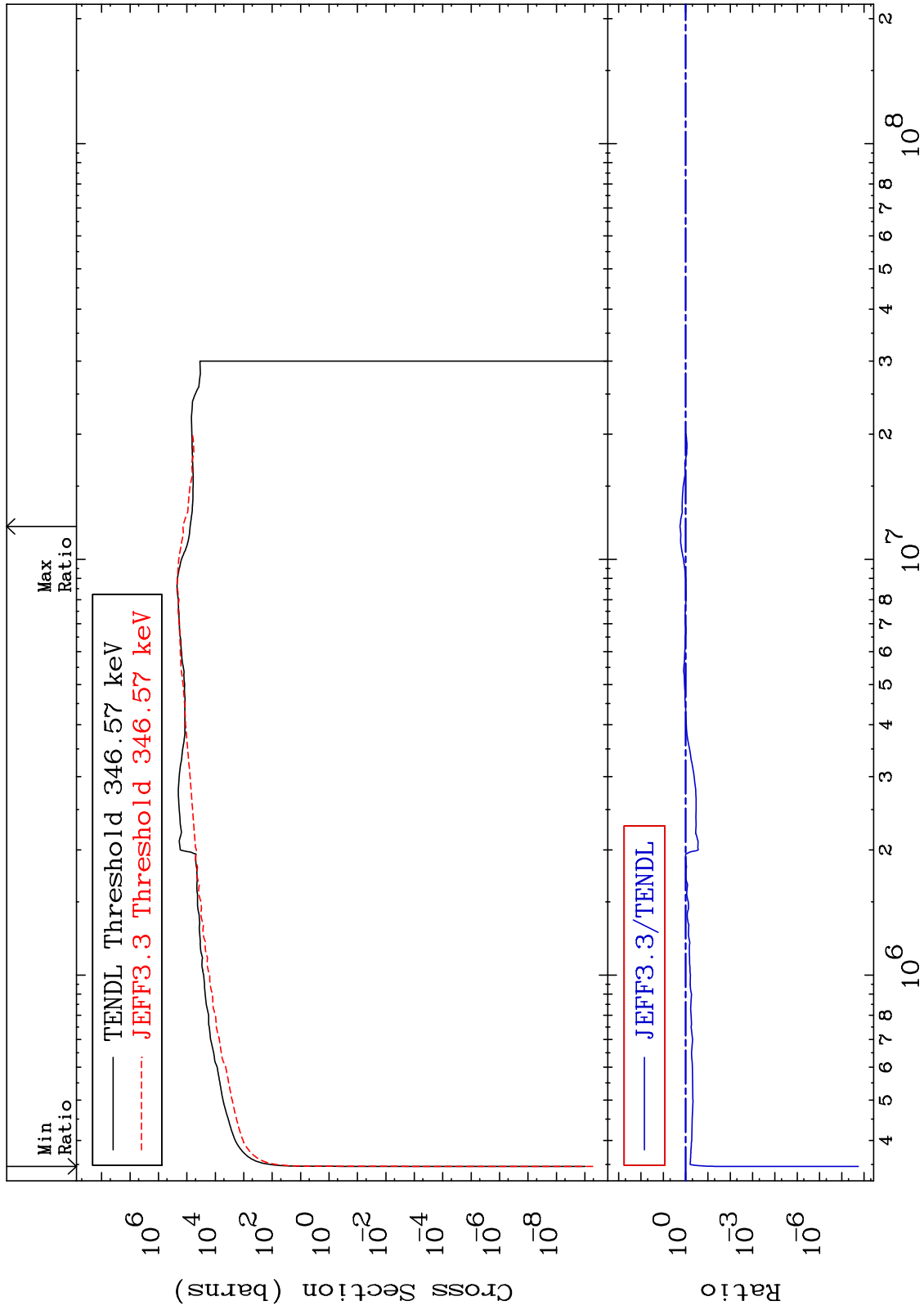
Cross Section



MAT 6425

Kerma inelastic (mt51-91)  
Cross Section

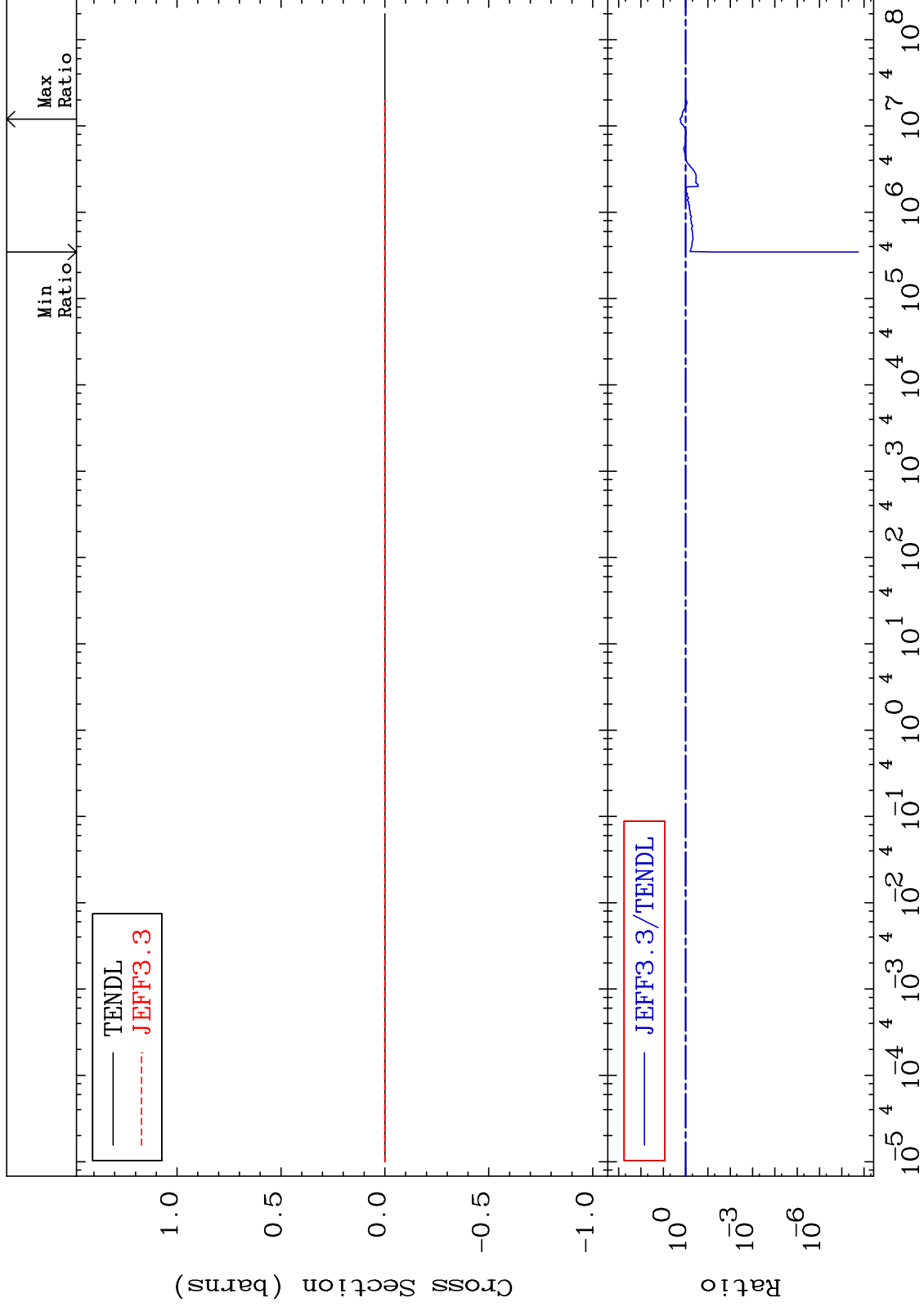
64-Gd-152  
-100.0 To 78.36 %



MAT 6425

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

64-Gd-152  
-100.0 To 78.36 %



50

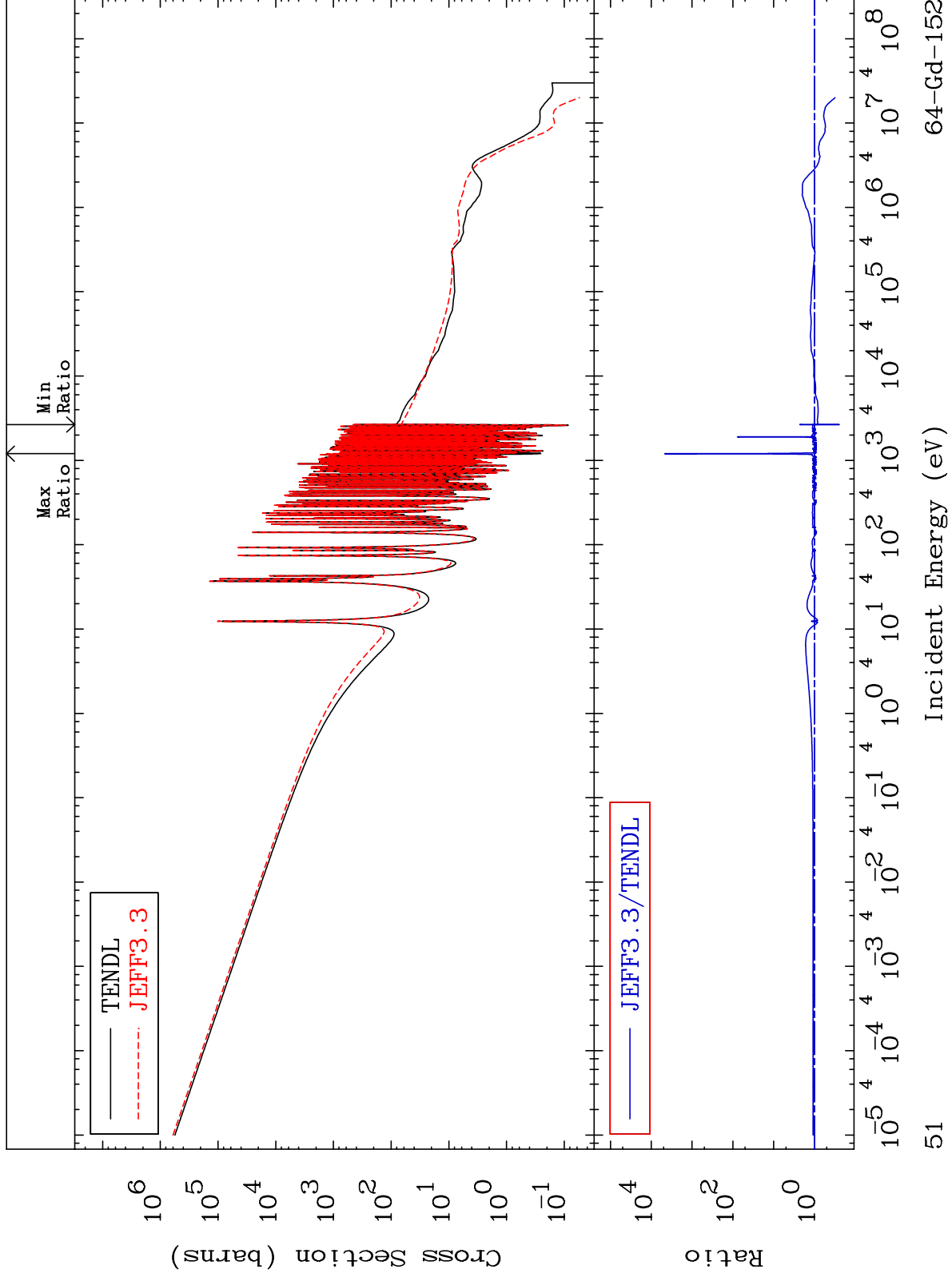
Incident Energy (eV)

64-Gd-152

MAT 6425

Kerma capture (mt102)  
Cross Section

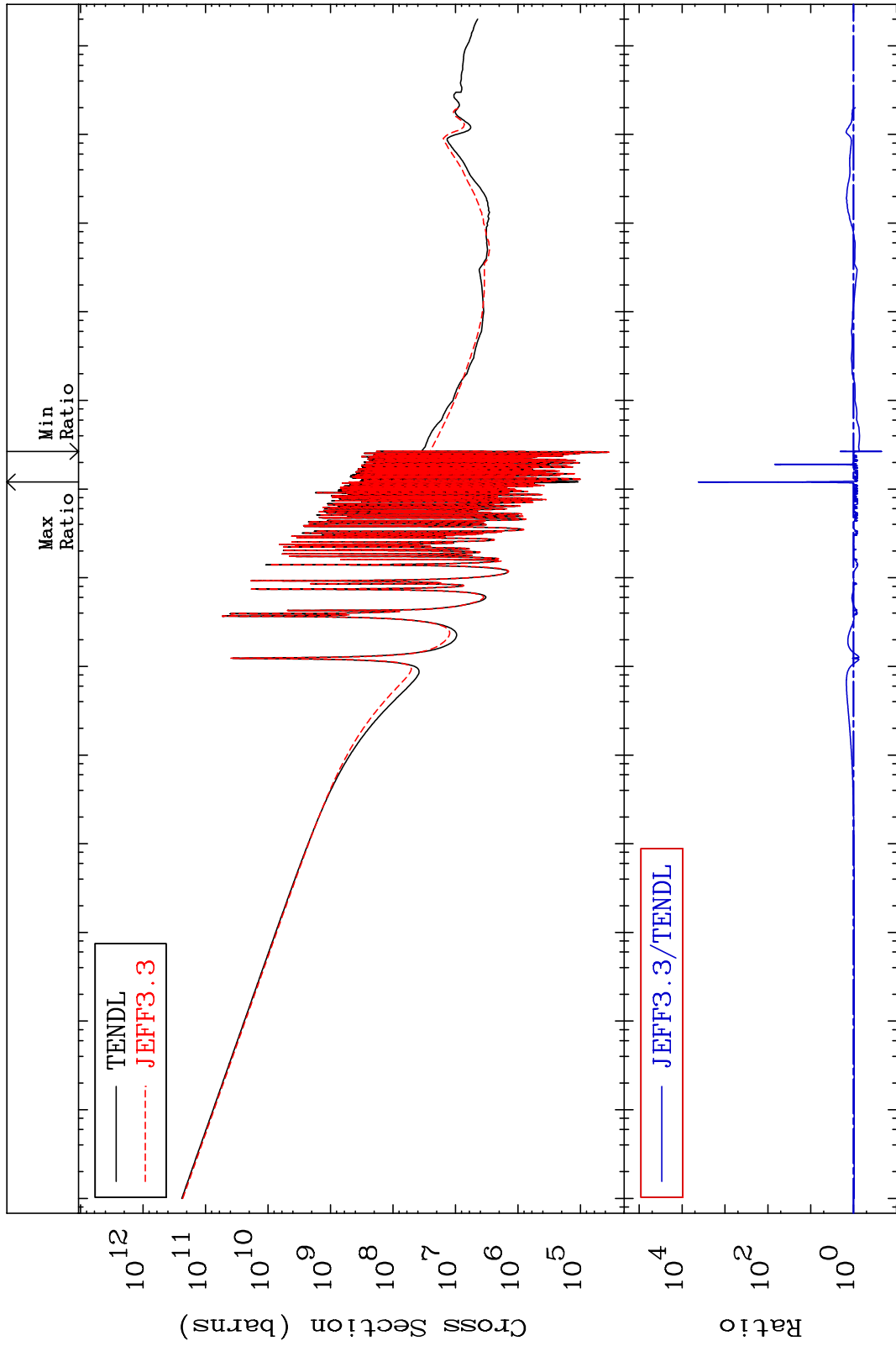
64-Gd-152  
-75.17 To 9999. %



MAT 6425

Total photon (eV-barns)  
Cross Section

64-Gd-152  
-77.74 To 9999. %



10<sup>12</sup>  
10<sup>11</sup>  
10<sup>10</sup>  
10<sup>9</sup>  
10<sup>8</sup>  
10<sup>7</sup>  
10<sup>6</sup>  
10<sup>5</sup>  
10<sup>4</sup>  
10<sup>2</sup>  
10<sup>0</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>  
Incident Energy (eV)  
64-Gd-152

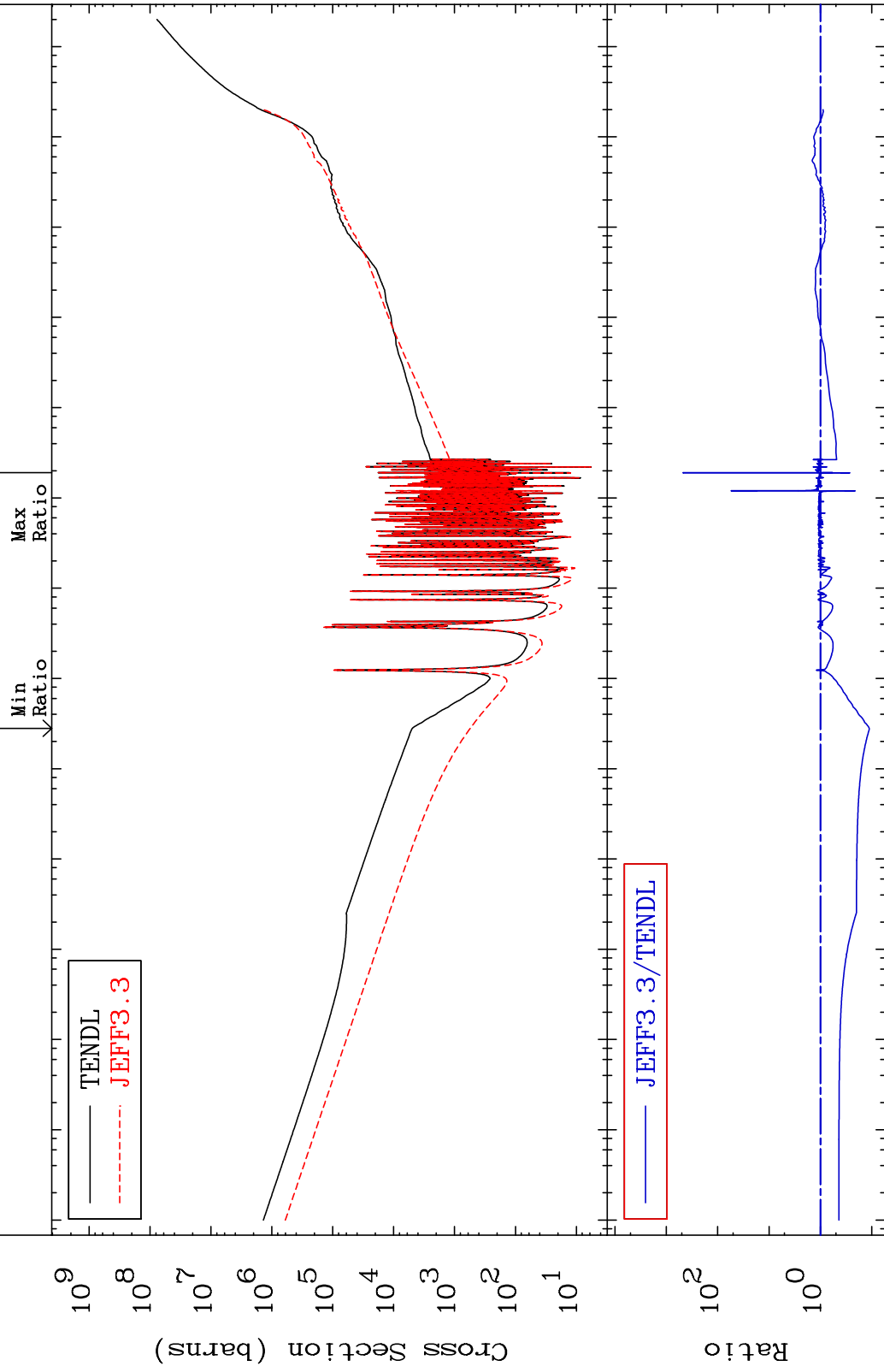
MAT 6425

Total kinematic kerma (high limit)

64-Gd-152

-88.85 To 9999. %

Cross Section



53

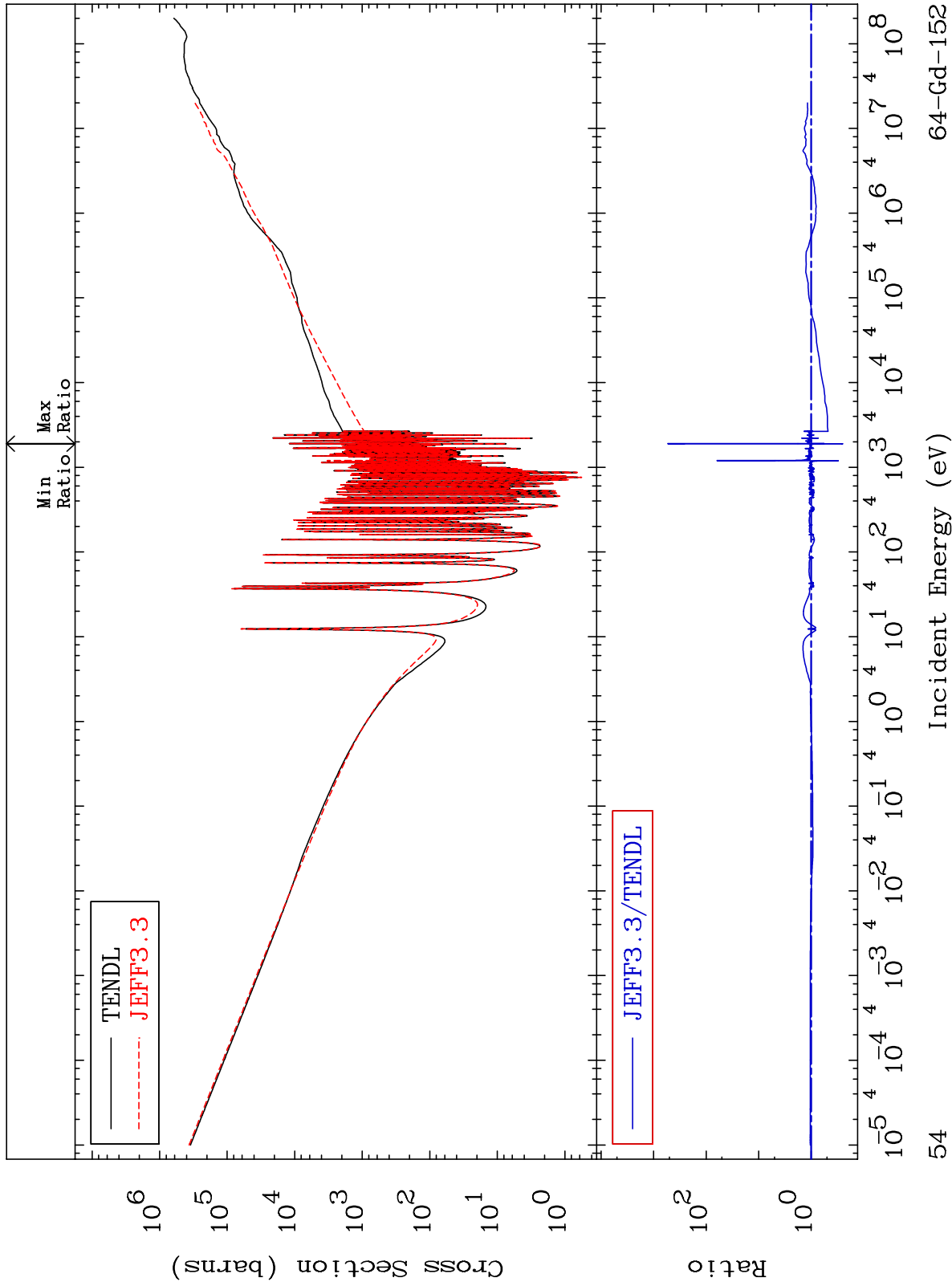
Incident Energy (eV)

64-Gd-152

MAT 6425

Dpa total (eV-barns)  
Cross Section

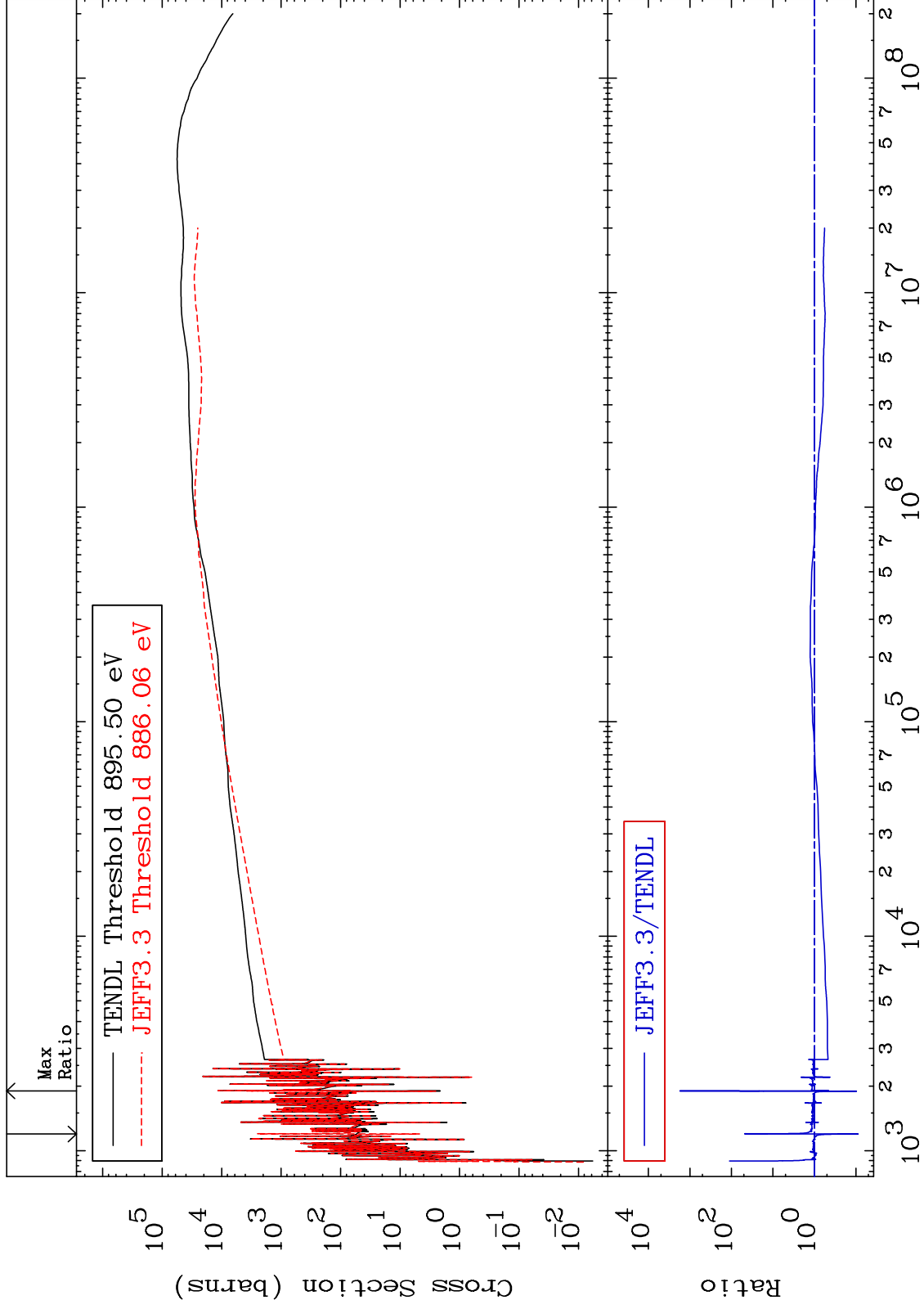
64-Gd-152  
-74.82 To 9999. %



MAT 6425

Dpa elastic (mt2)  
Cross Section

64-Gd-152  
-91.28 To 9999. %



55

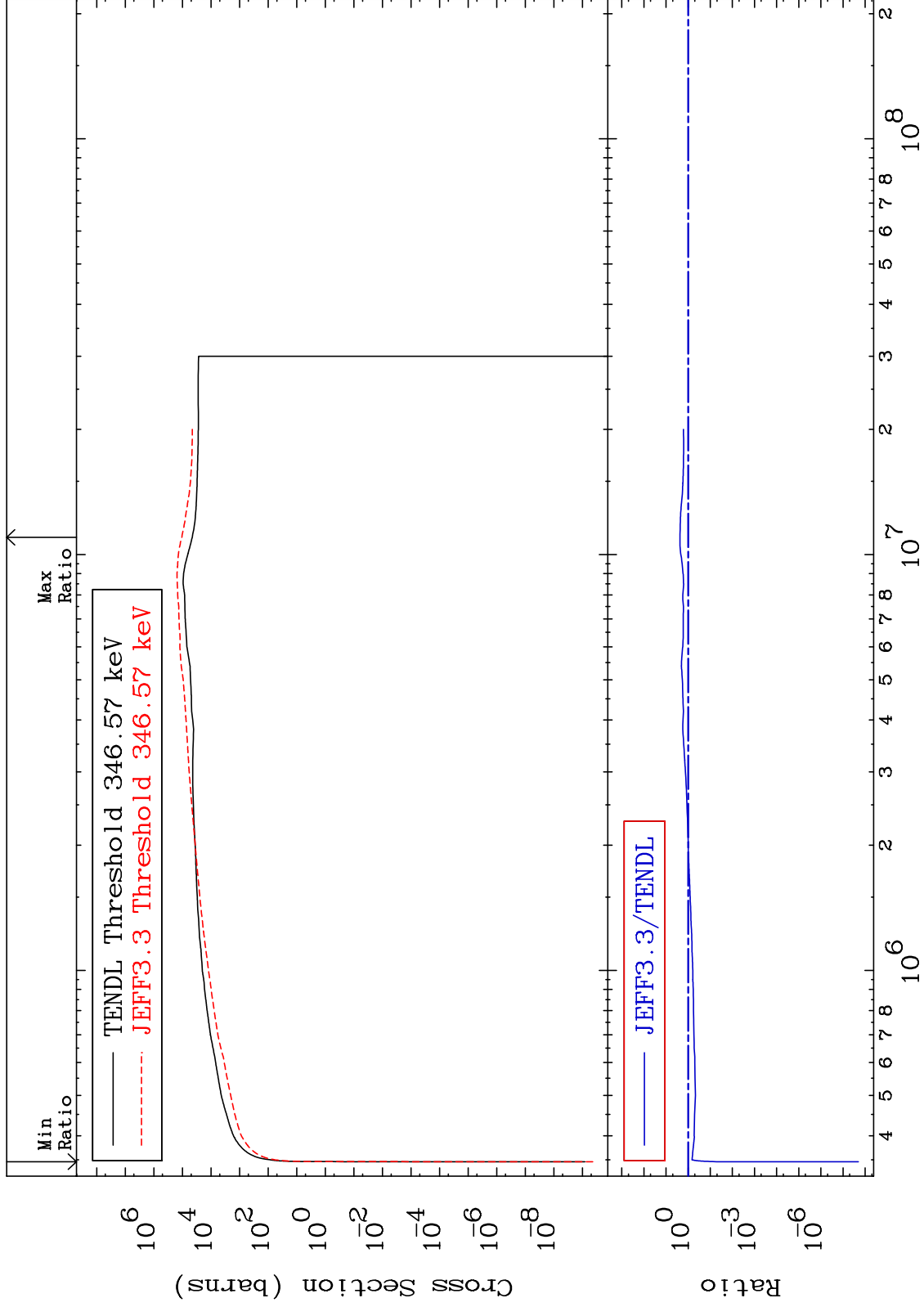
64-Gd-152



MAT 6425

Dpa inelastic (mt51-91)  
Cross Section

64-Gd-152  
-100.0 To 132.5 %



56

Incident Energy (eV)

64-Gd-152

MAT 6425

Dpa disappearance (mt102 -120)  
Cross Section

64-Gd-152  
-75.65 To 9999. %

