

Program Complot  
(Version 2018-1)

by

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(Present Contact Information)

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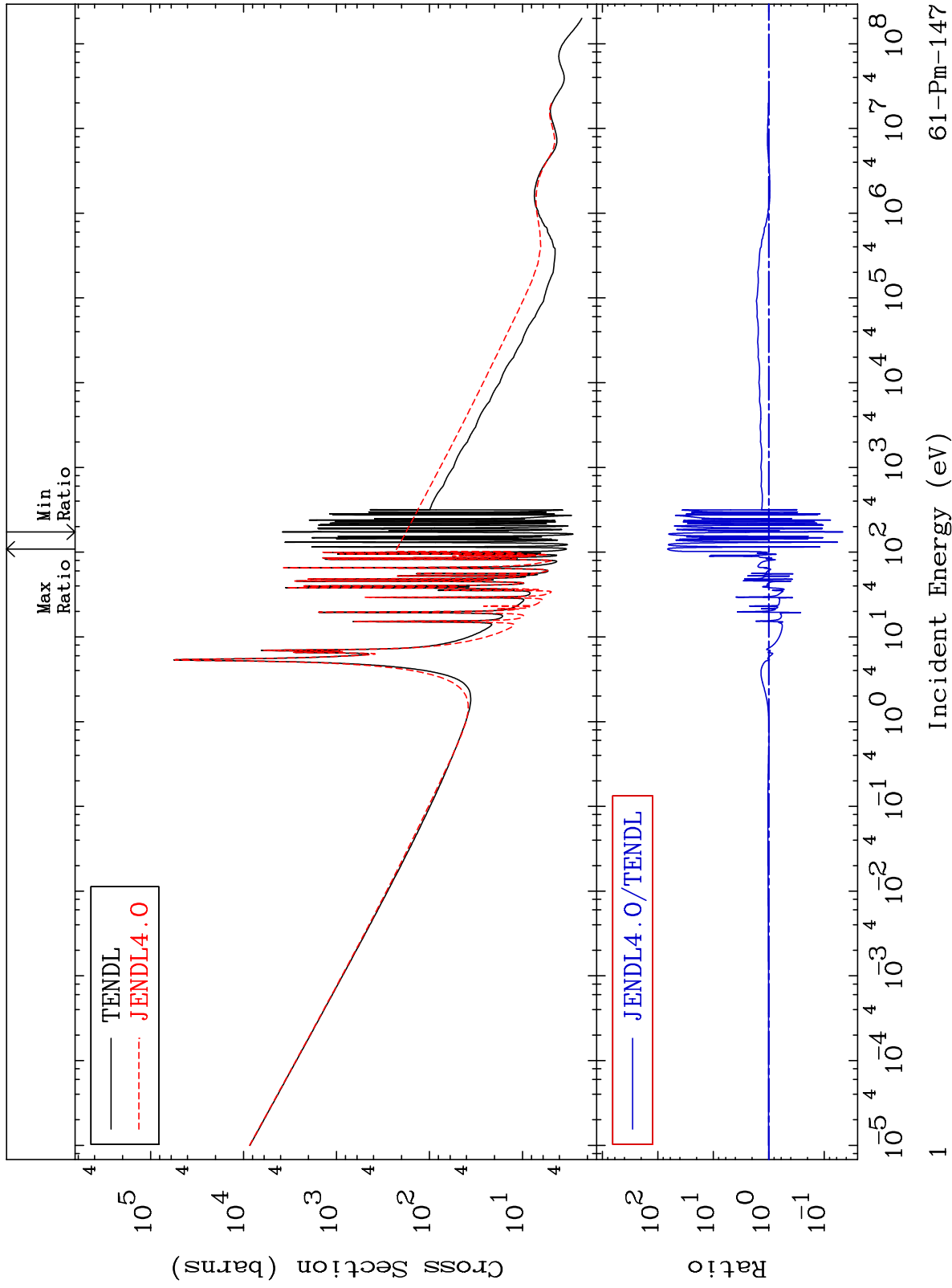
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E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 6149

Total Cross Section  
61-Pm-147  
-95.34 To 6595. %



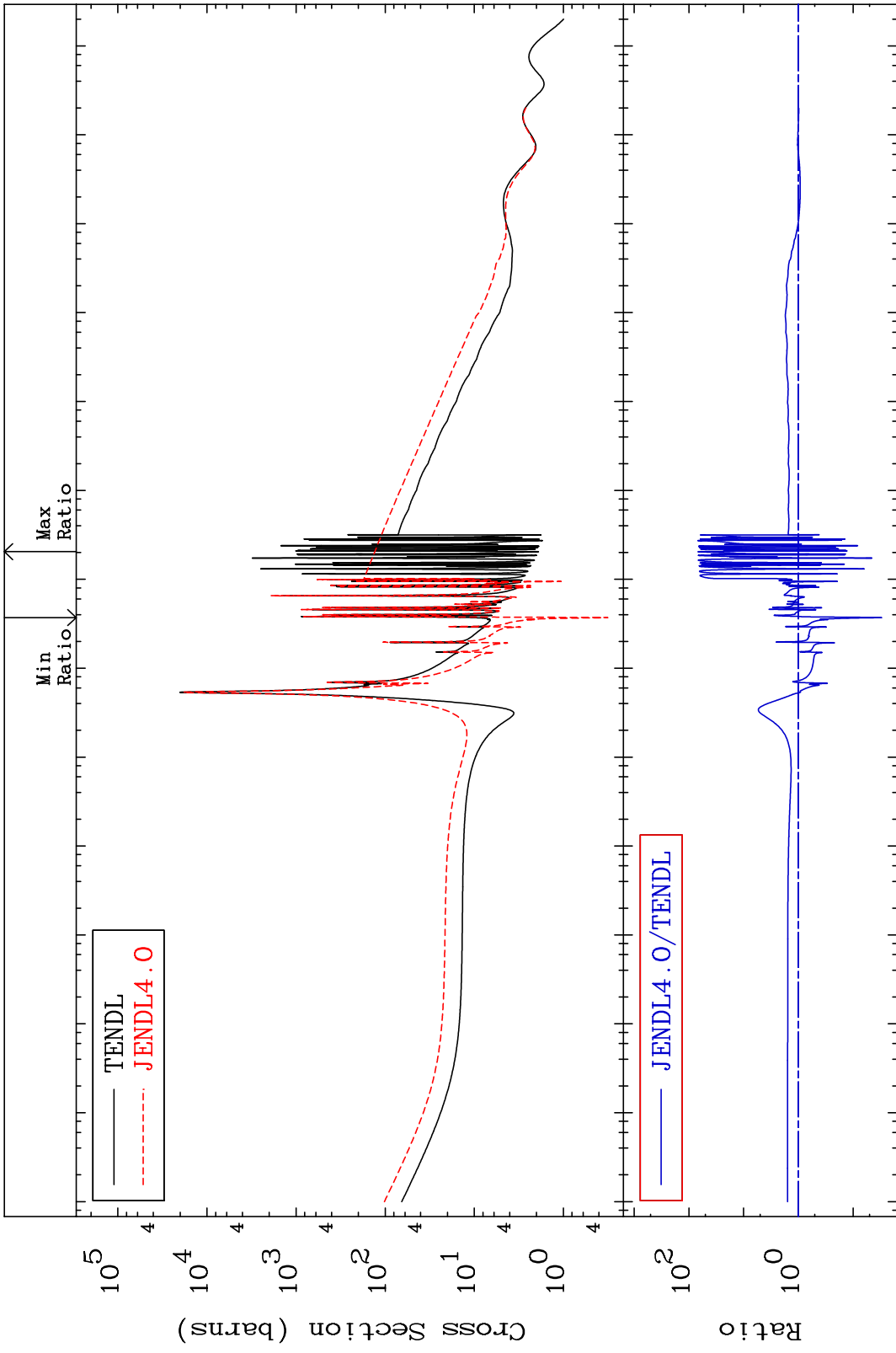
MAT 6149

Elastic

61-Pm-147

-96.98 To 6779. %

Cross Section



Incident Energy (eV)

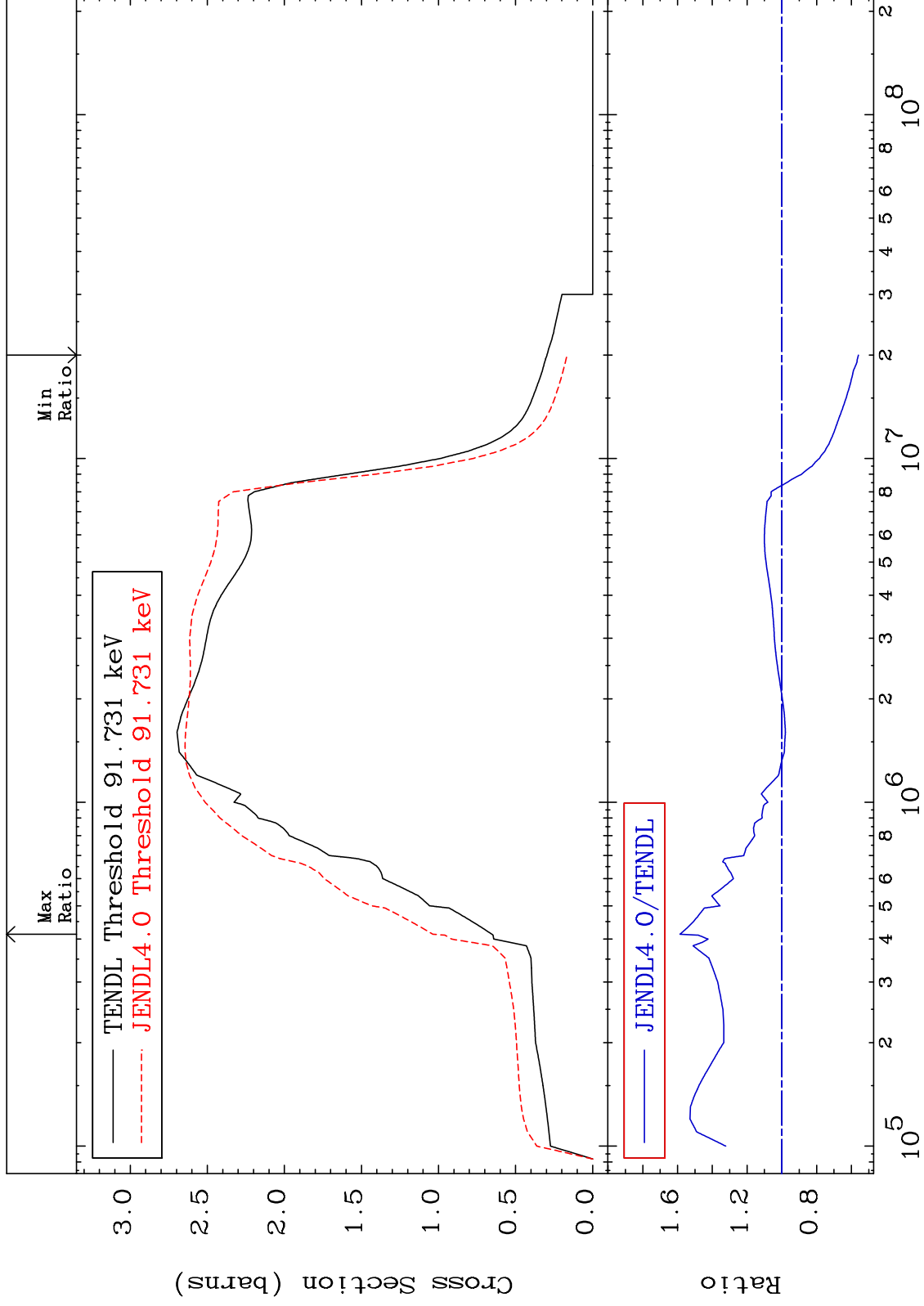
61-Pm-147

2

MAT 6149

Inelastic  
Cross Section

61-Pm-147  
-44.06 To 58.59 %



Incident Energy (eV)

61-Pm-147

3

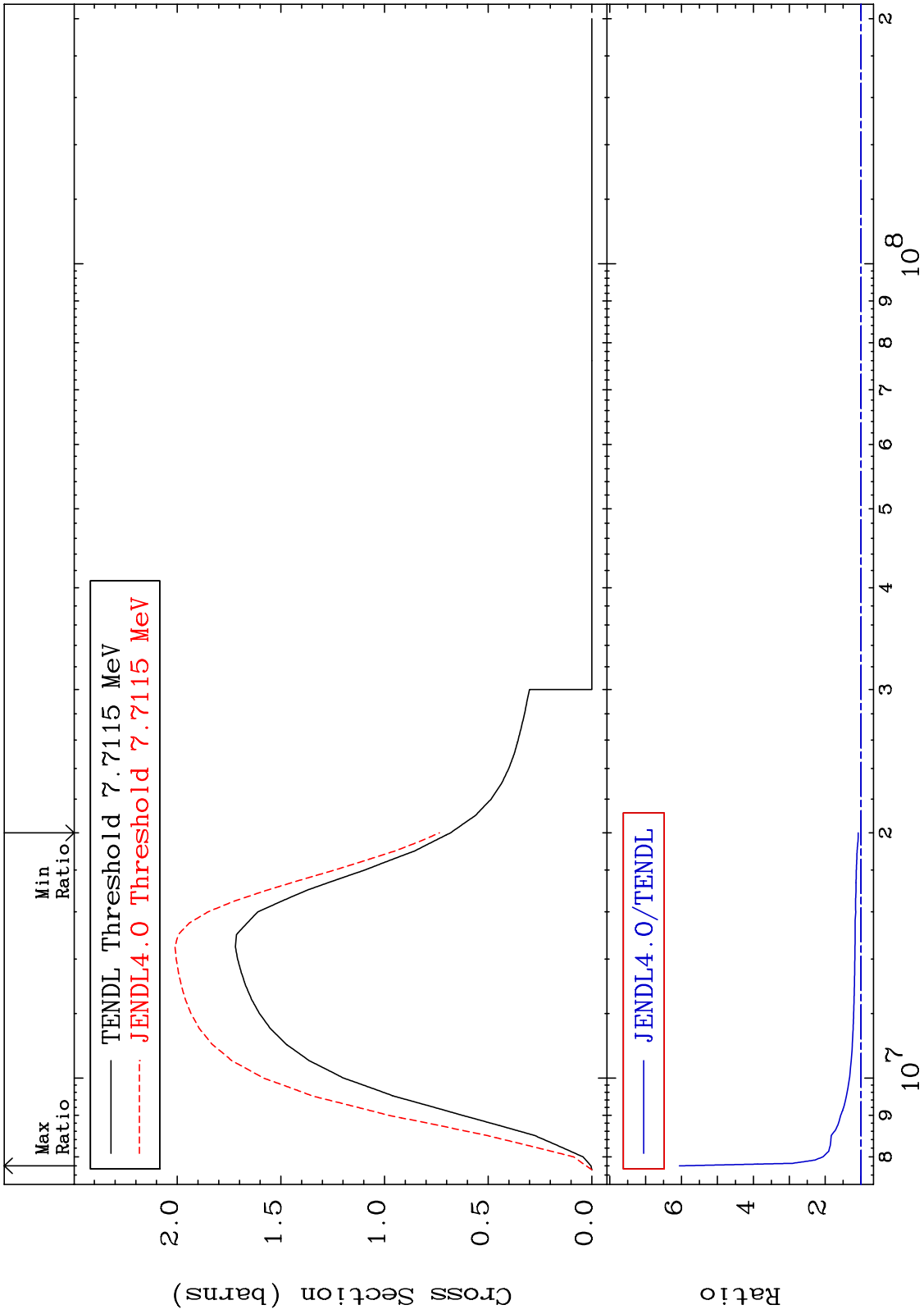
MAT 6149

(n,2n)

61-Pm-147

Cross Section

7.853 To 506.1 %



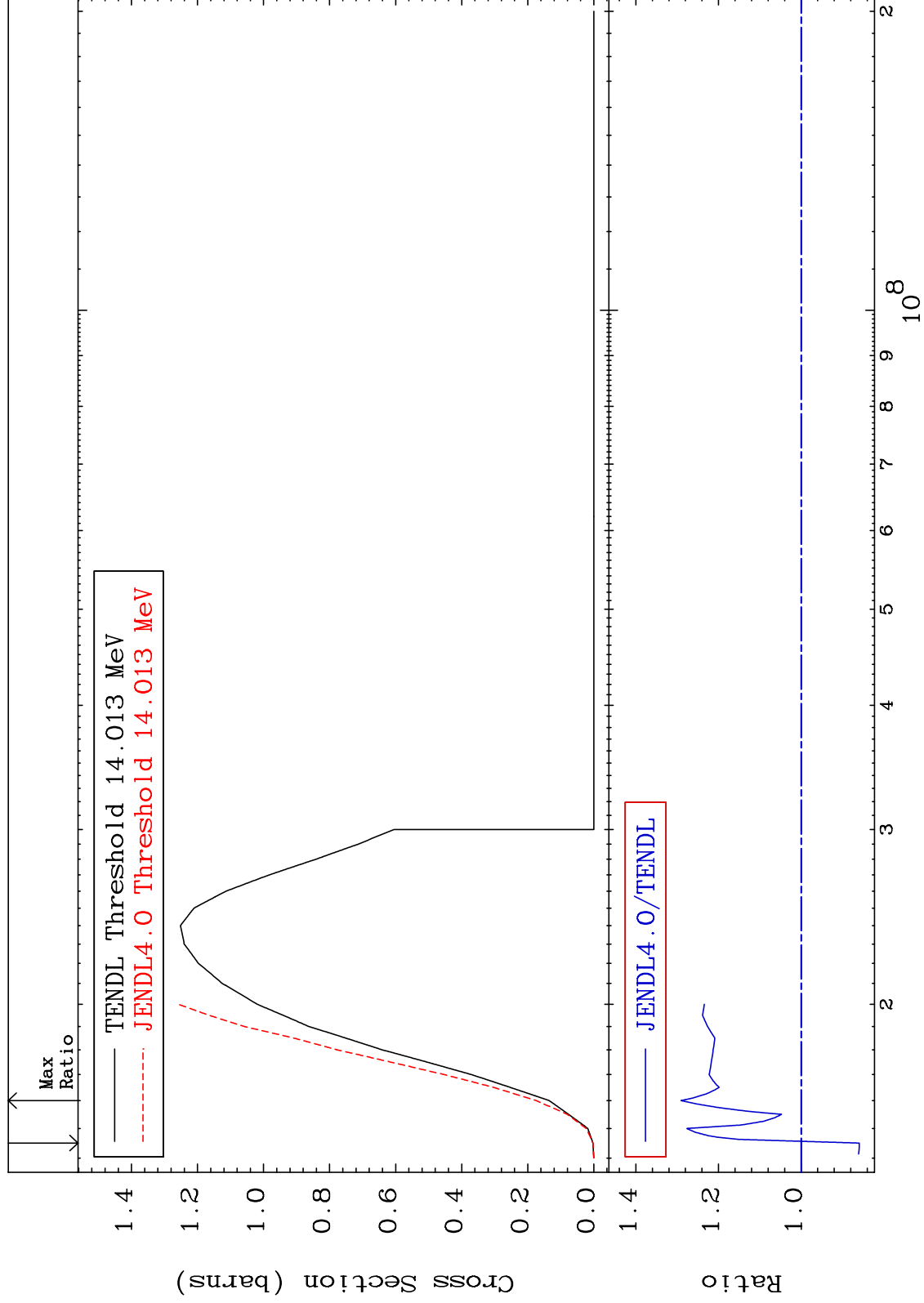
MAT 6149

(n, 3n)

61-Pm-147

Cross Section

-14.06 To 29.06 %



MAT 6149

(n,n')  $\alpha$

61-Pm-147

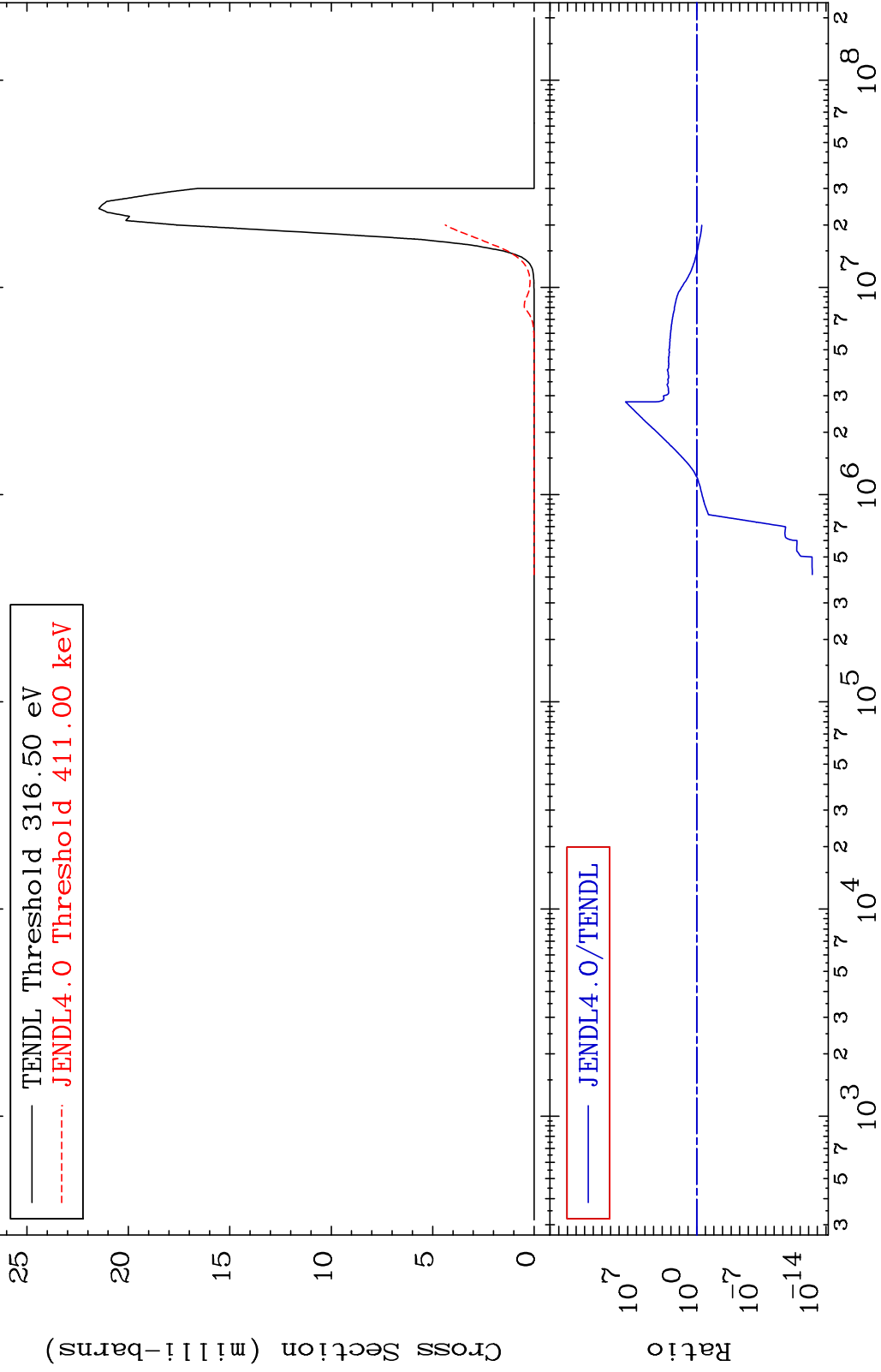
Cross Section

Cross Section

Min Ratio

Max Ratio

-100.0 To 9999. %



25

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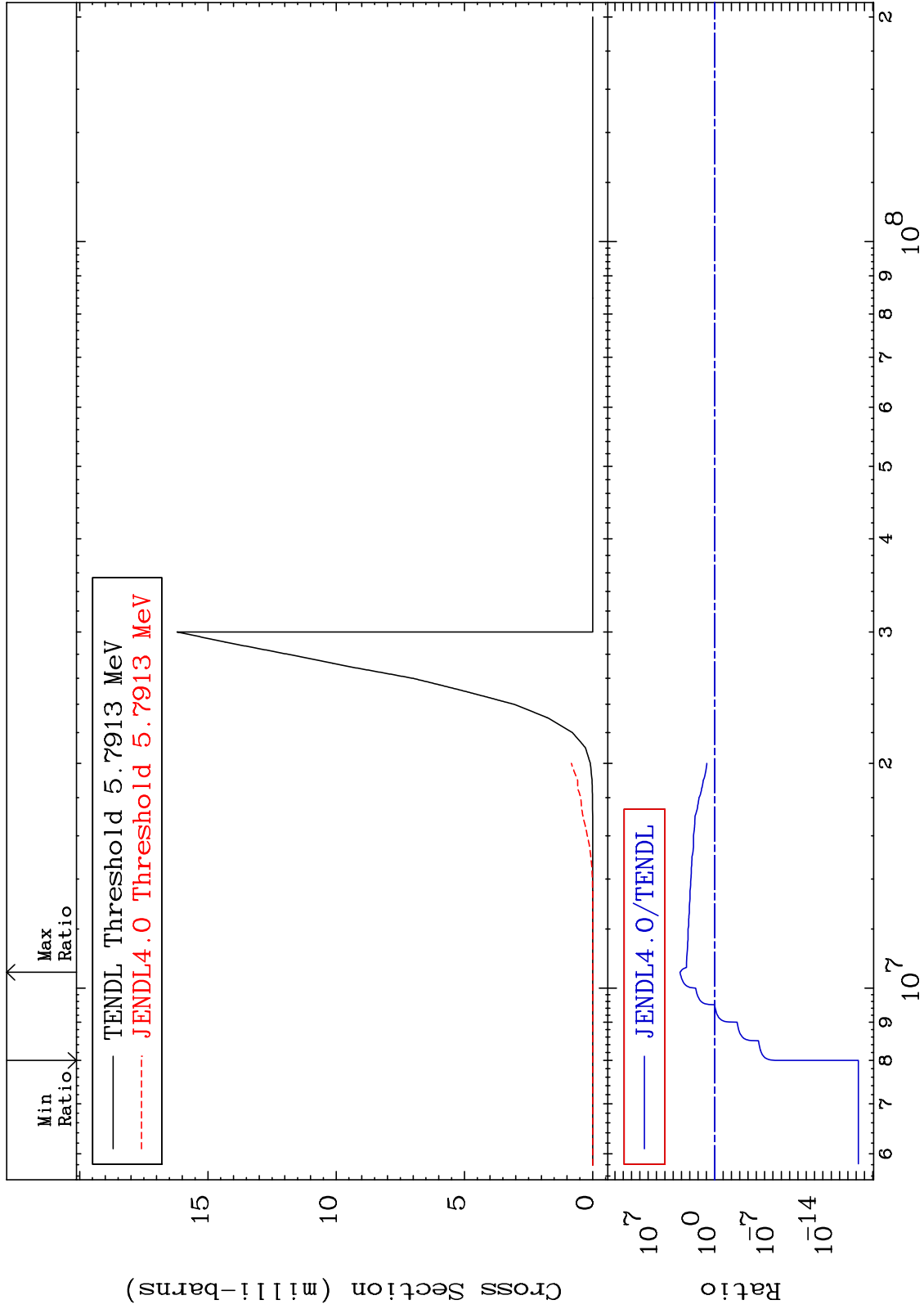
MAT 6149

(n,2n)  $\alpha$

61-Pm-147

Cross Section

-100.0 To 9999. %



7

Incident Energy (eV)

61-Pm-147



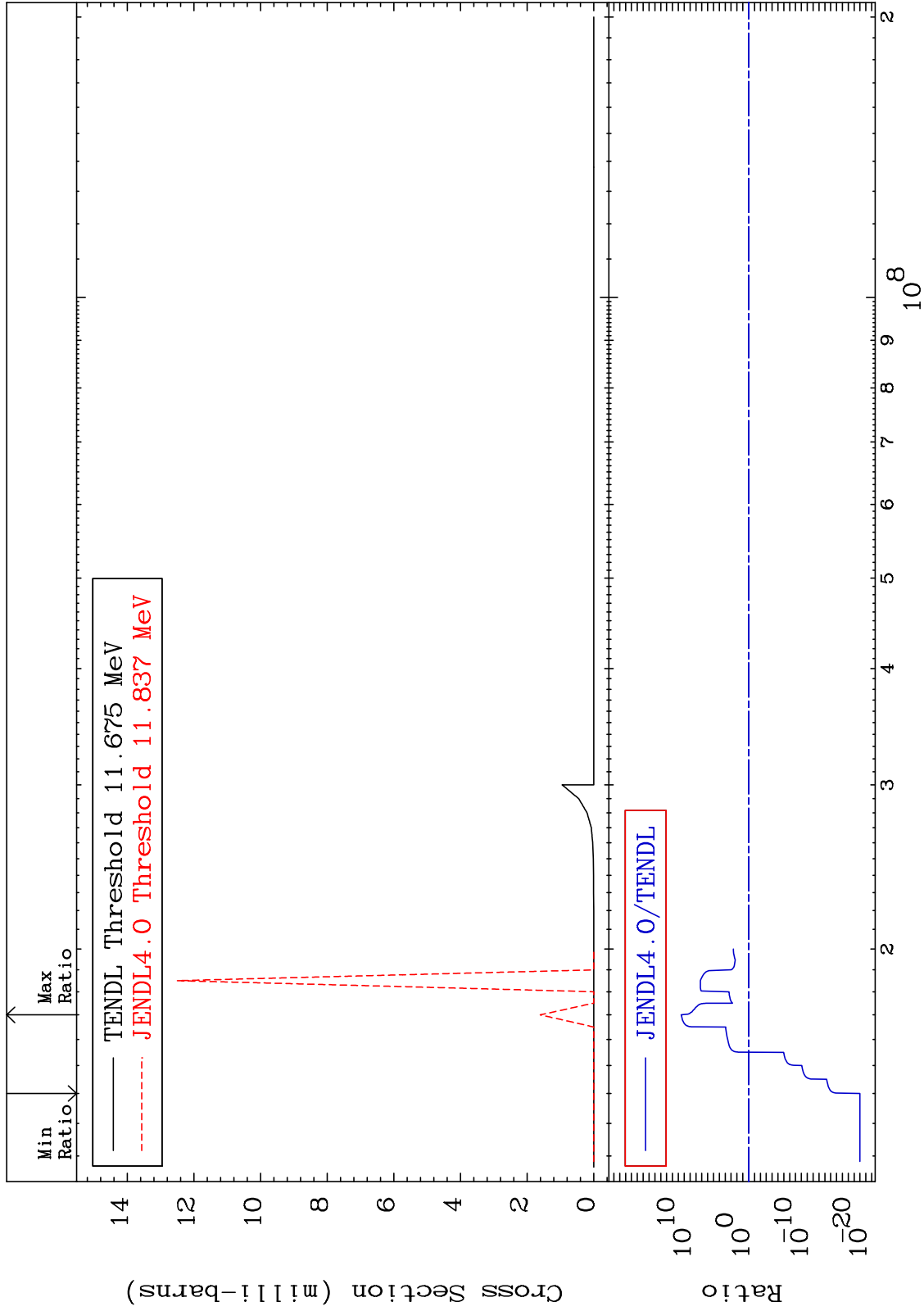
MAT 6149

(n,3n)  $\alpha$

61-Pm-147

Cross Section

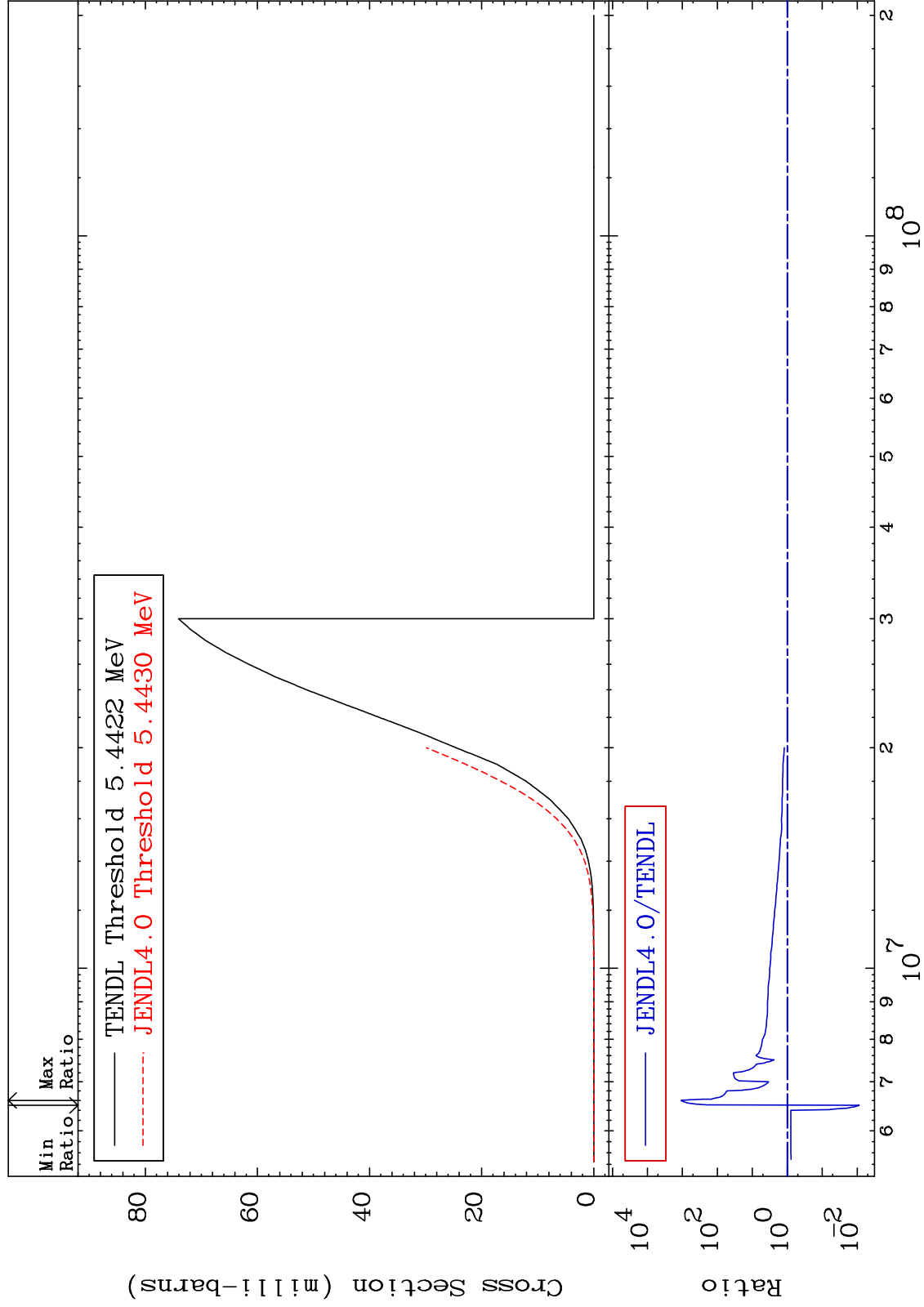
-100.0 To 9999. %



MAT 6149

(n,n') p  
Cross Section

61-Pm-147  
-99.13 To 9999. %



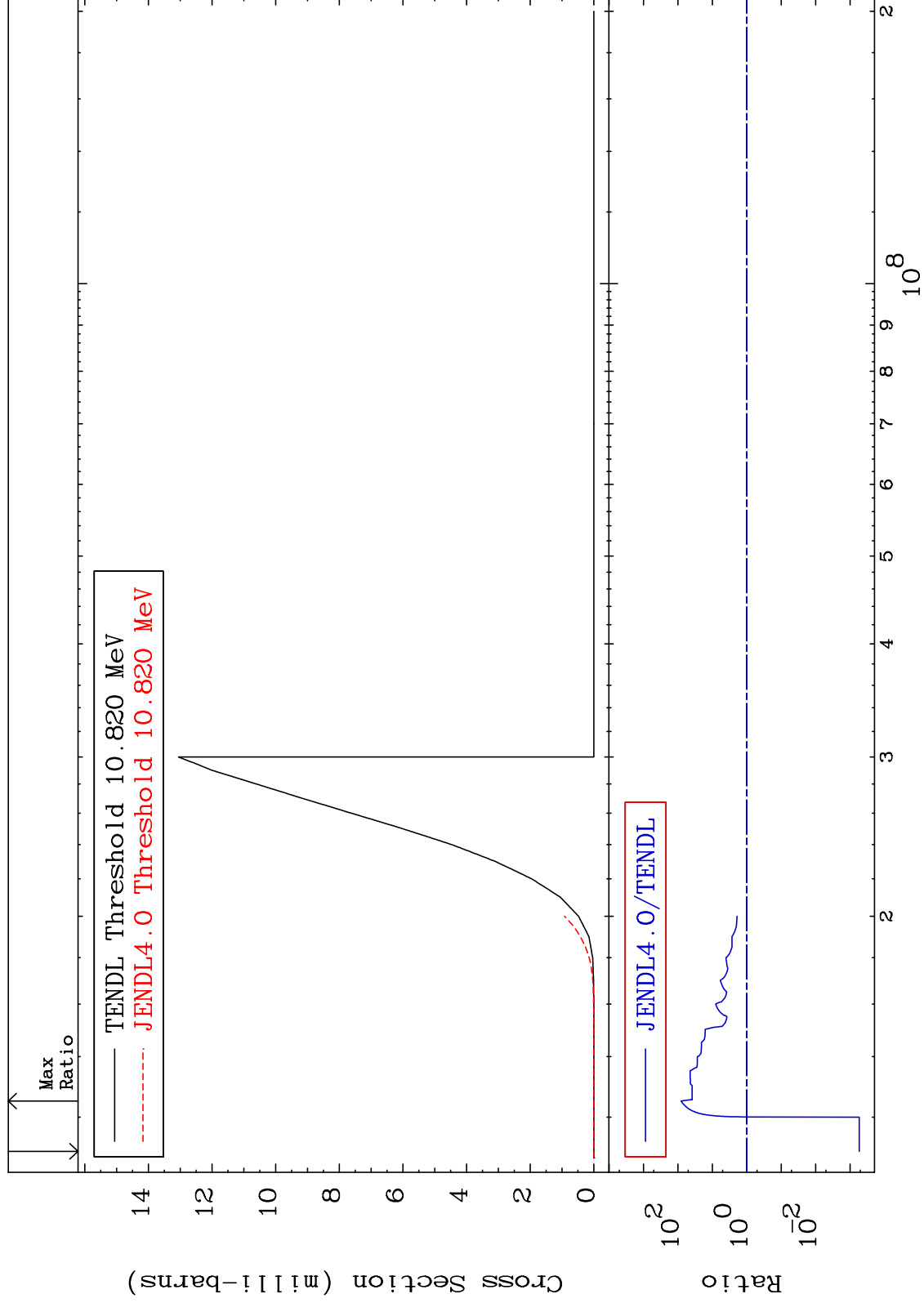
MAT 6149

(n,n') d

61-Pm-147

Cross Section

-99.95 To 7992. %



10

Incident Energy (eV)

61-Pm-147

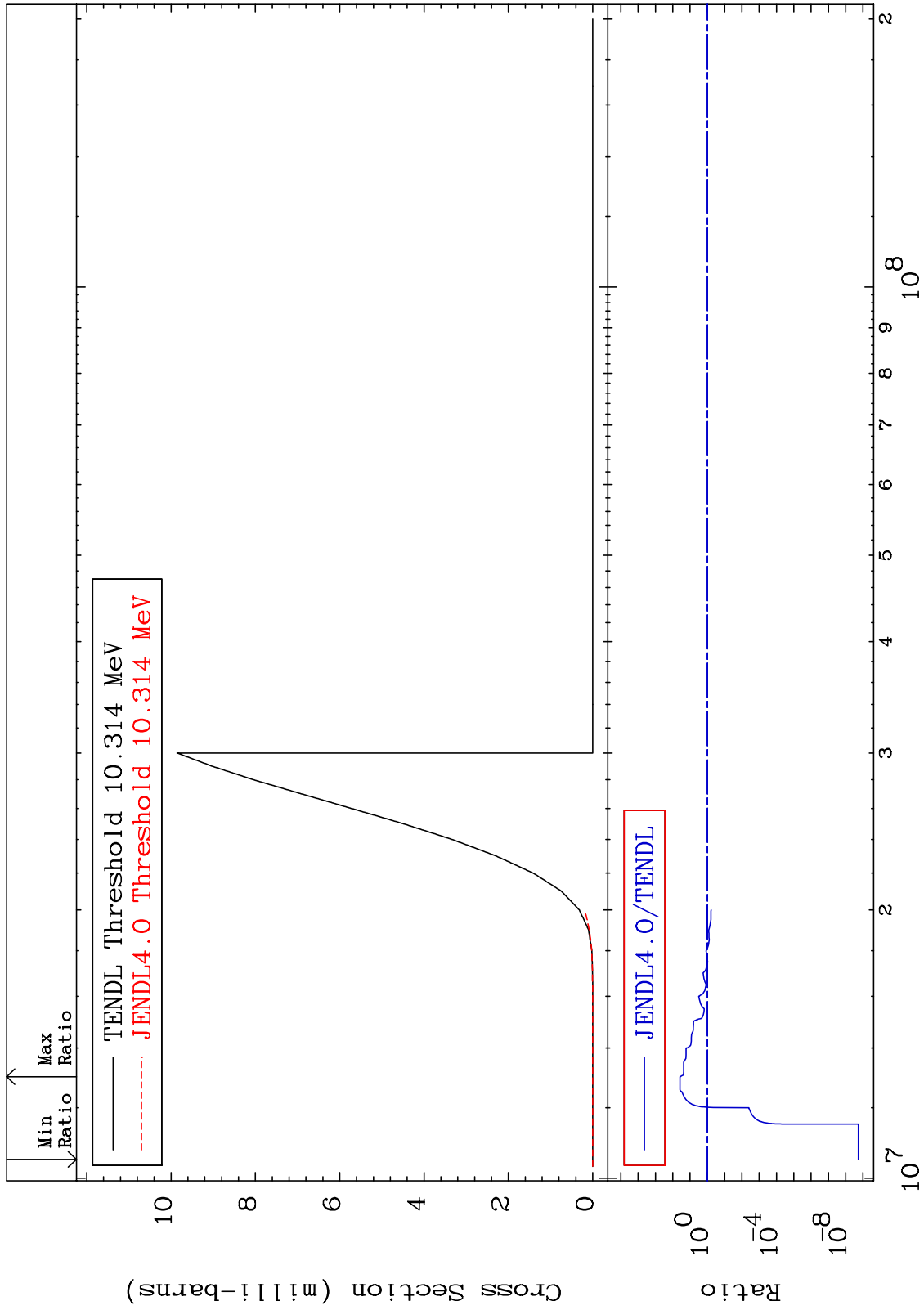
MAT 6149

(n,n') t

61-Pm-147

Cross Section

-100.0 To 3702. %



11

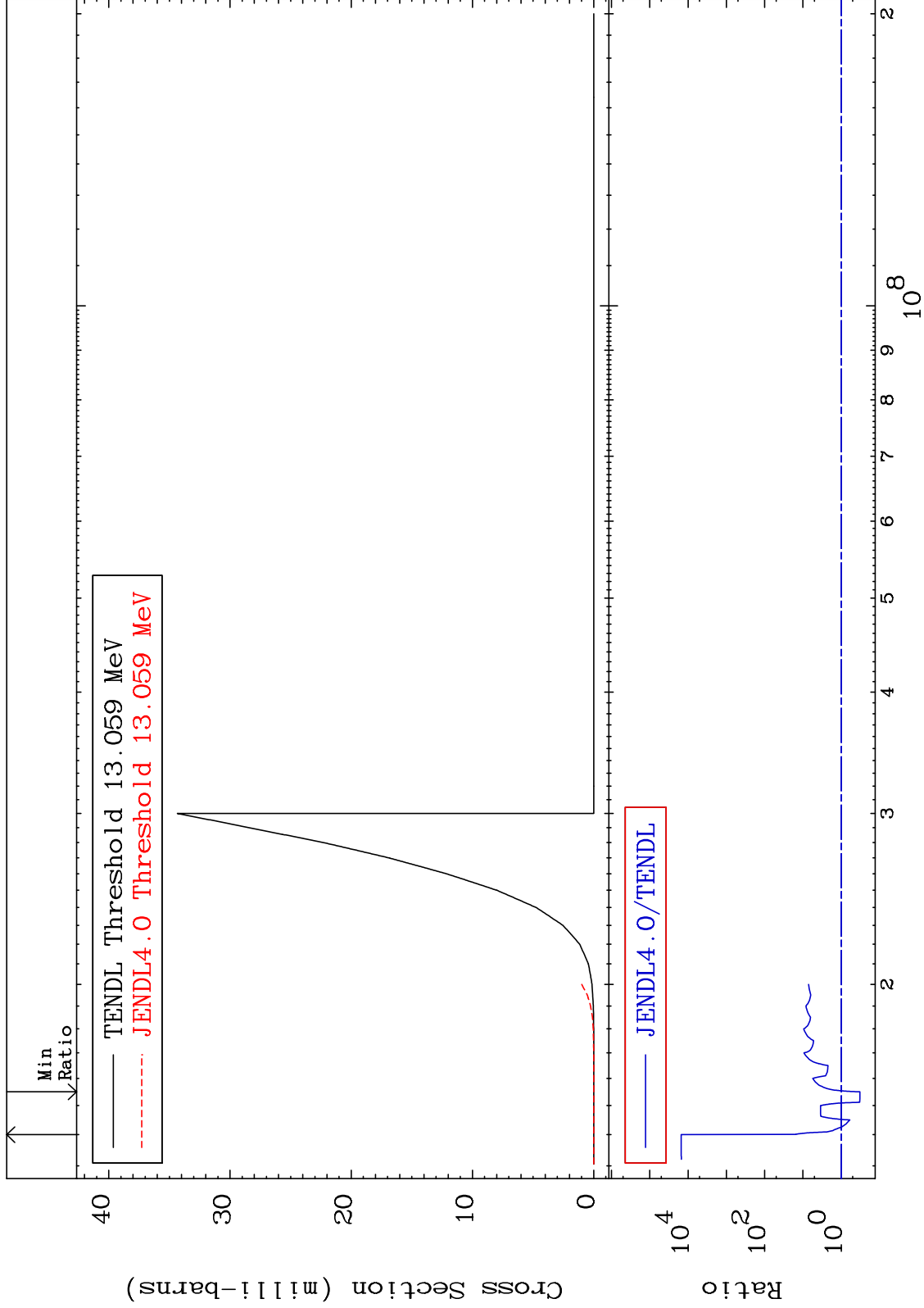
Incident Energy (eV)

61-Pm-147

MAT 6149

(n,2n) p  
Cross Section

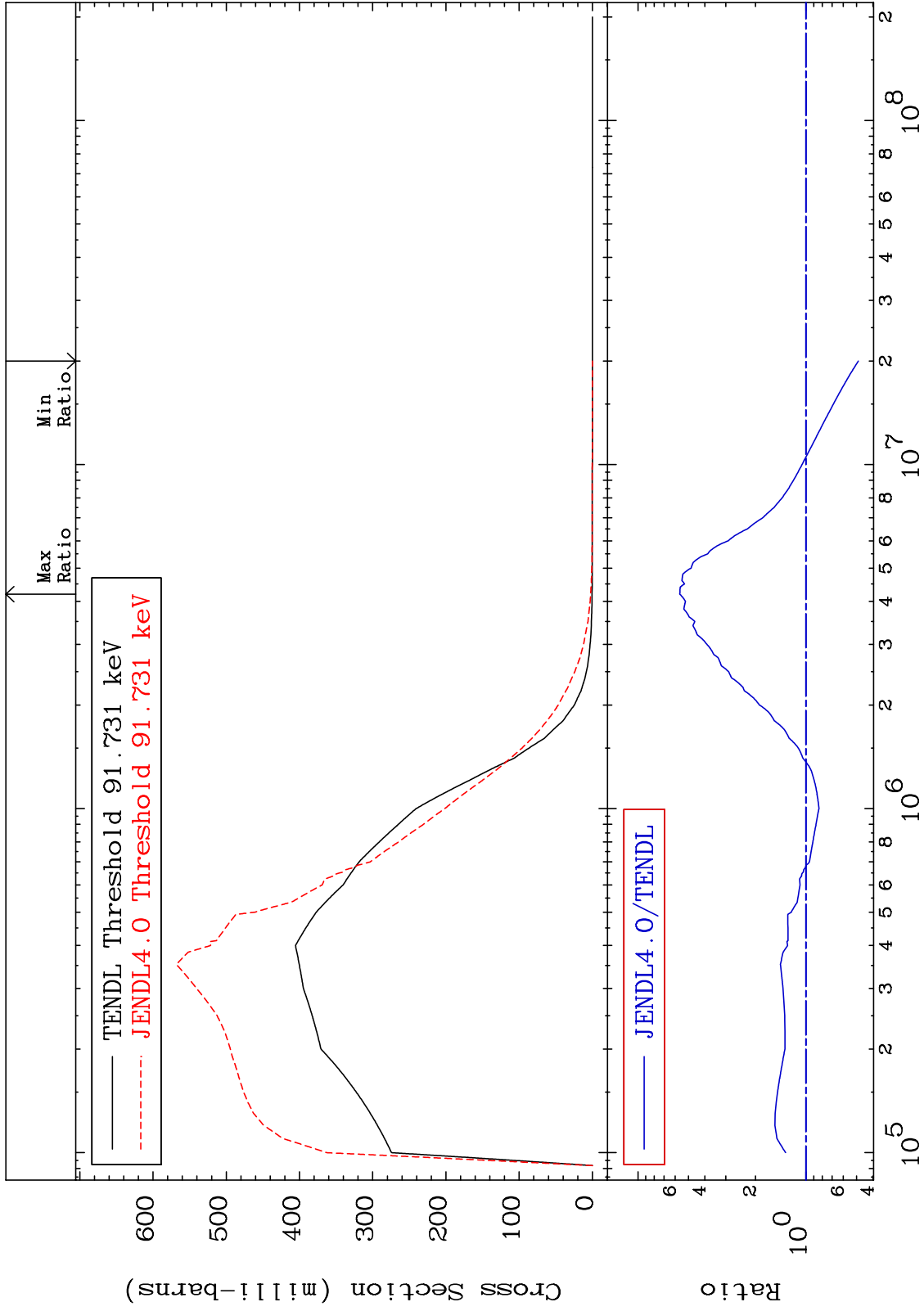
61-Pm-147  
-67.50 To 9999. %



MAT 6149

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

61-Pm-147  
-51.21 To 463.5 %

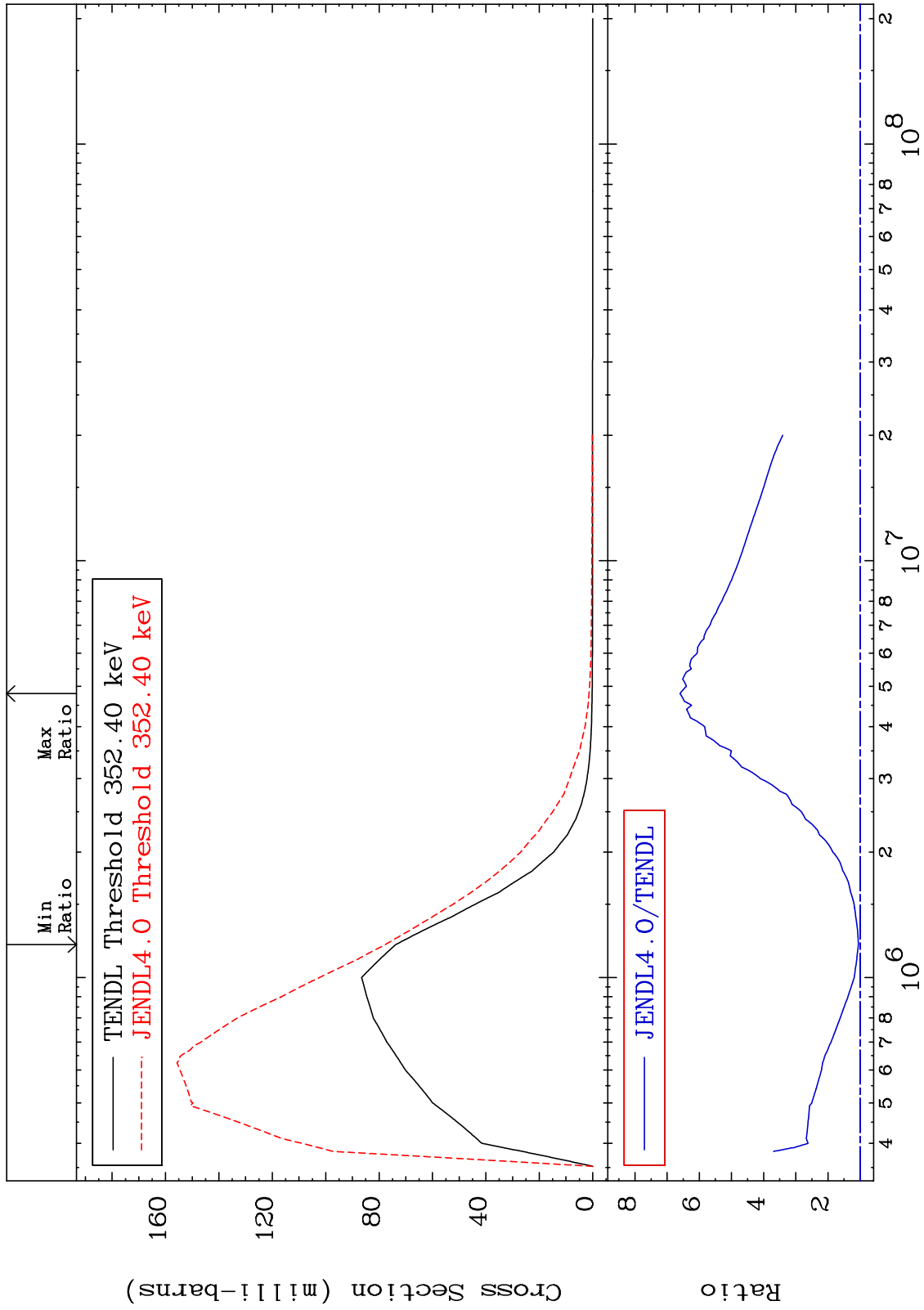


Incident Energy (eV)

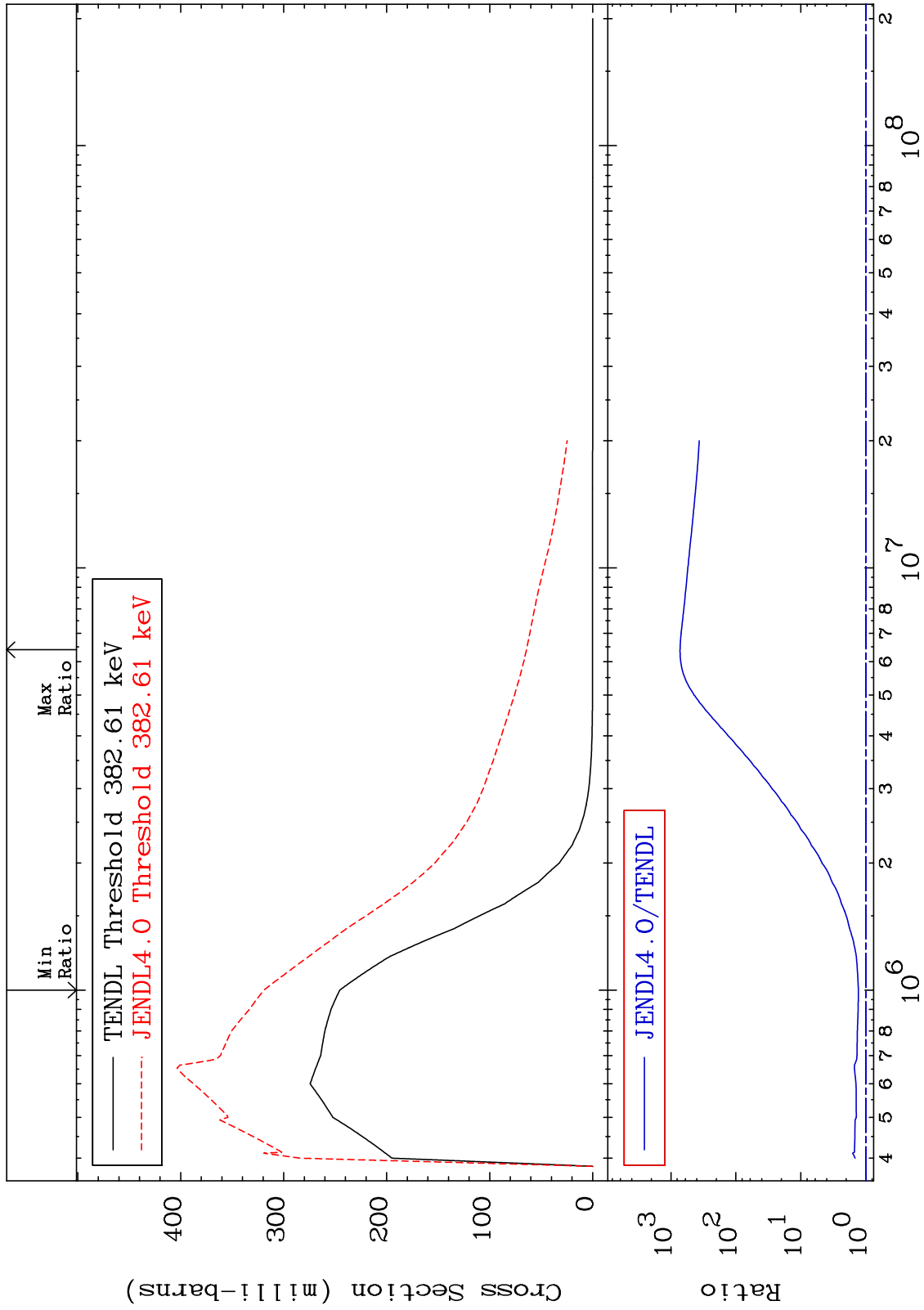
61-Pm-147

13

MAT 6149      MT= 52 (n,n') Level      61-Pm-147  
 Cross Section      5.336 To 560.0 %

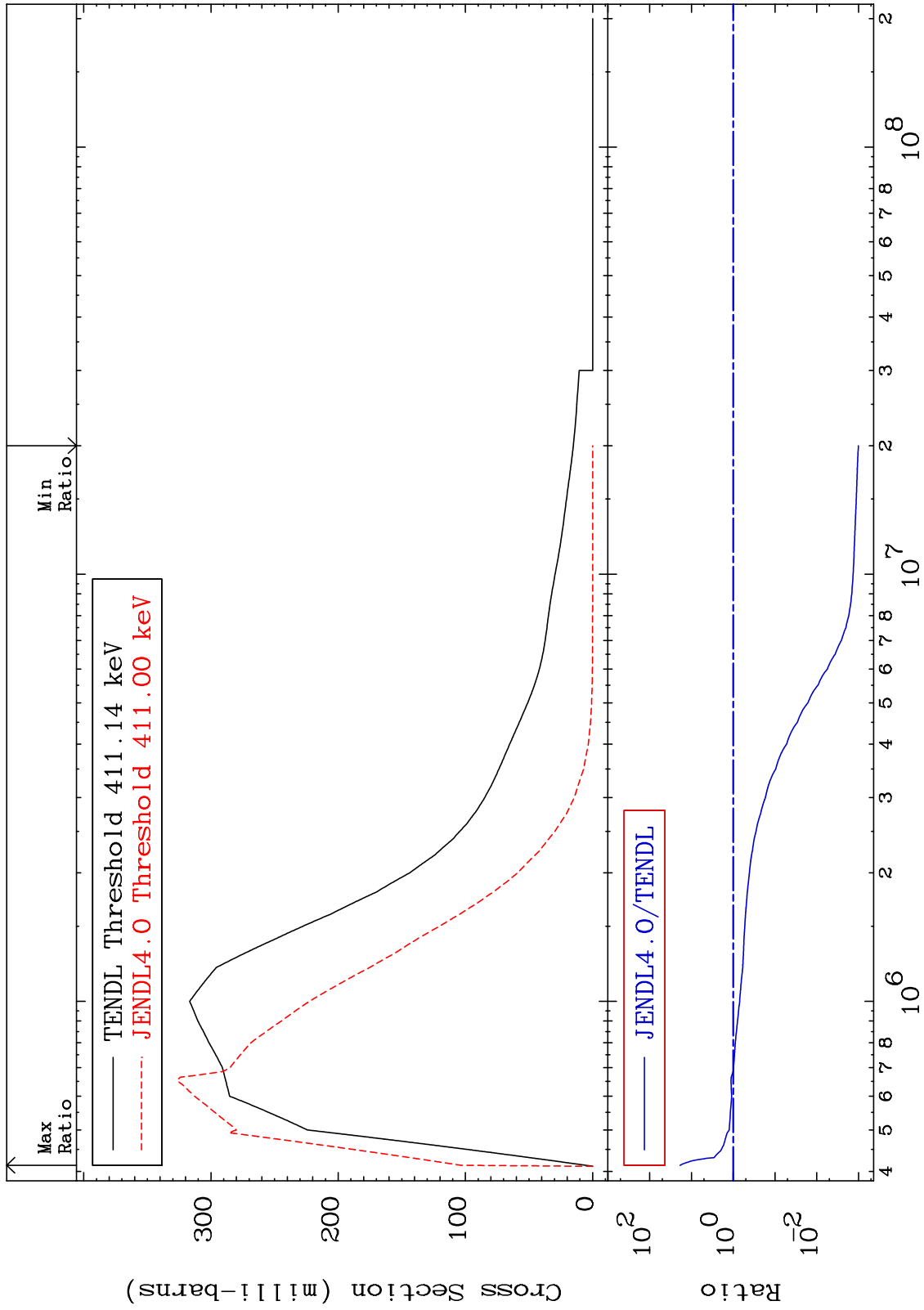


MAT 6149      MT= 53 (n,n') Level      61-Pm-147  
 Cross Section      29.97 To 9999. %





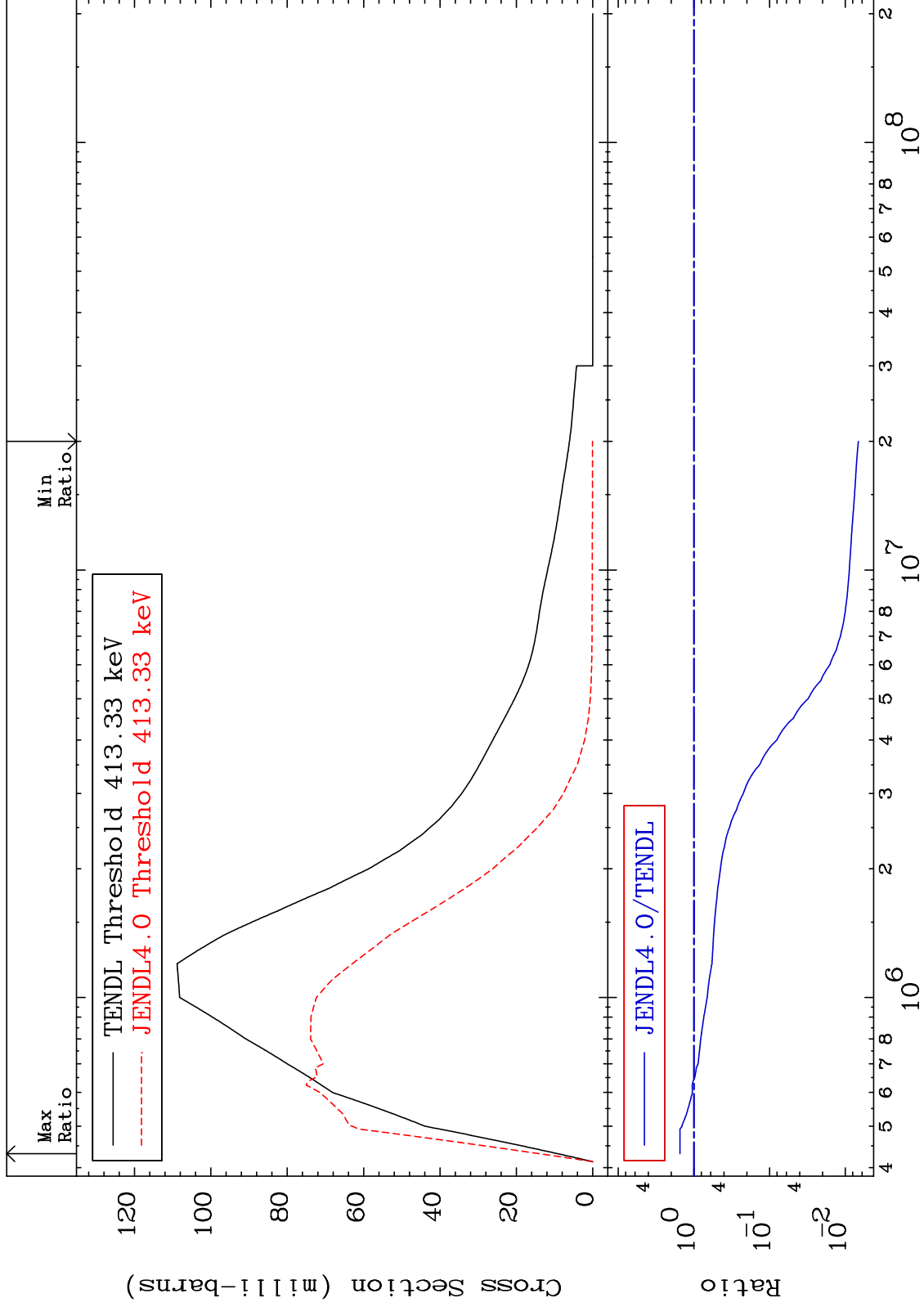
MAT 6149 MT= 54 (n,n') Level Cross Section 61-Pm-147 -99.90 To 1777. %



MAT 6149

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

61-Pm-147  
-99.33 To 52.64 %



17

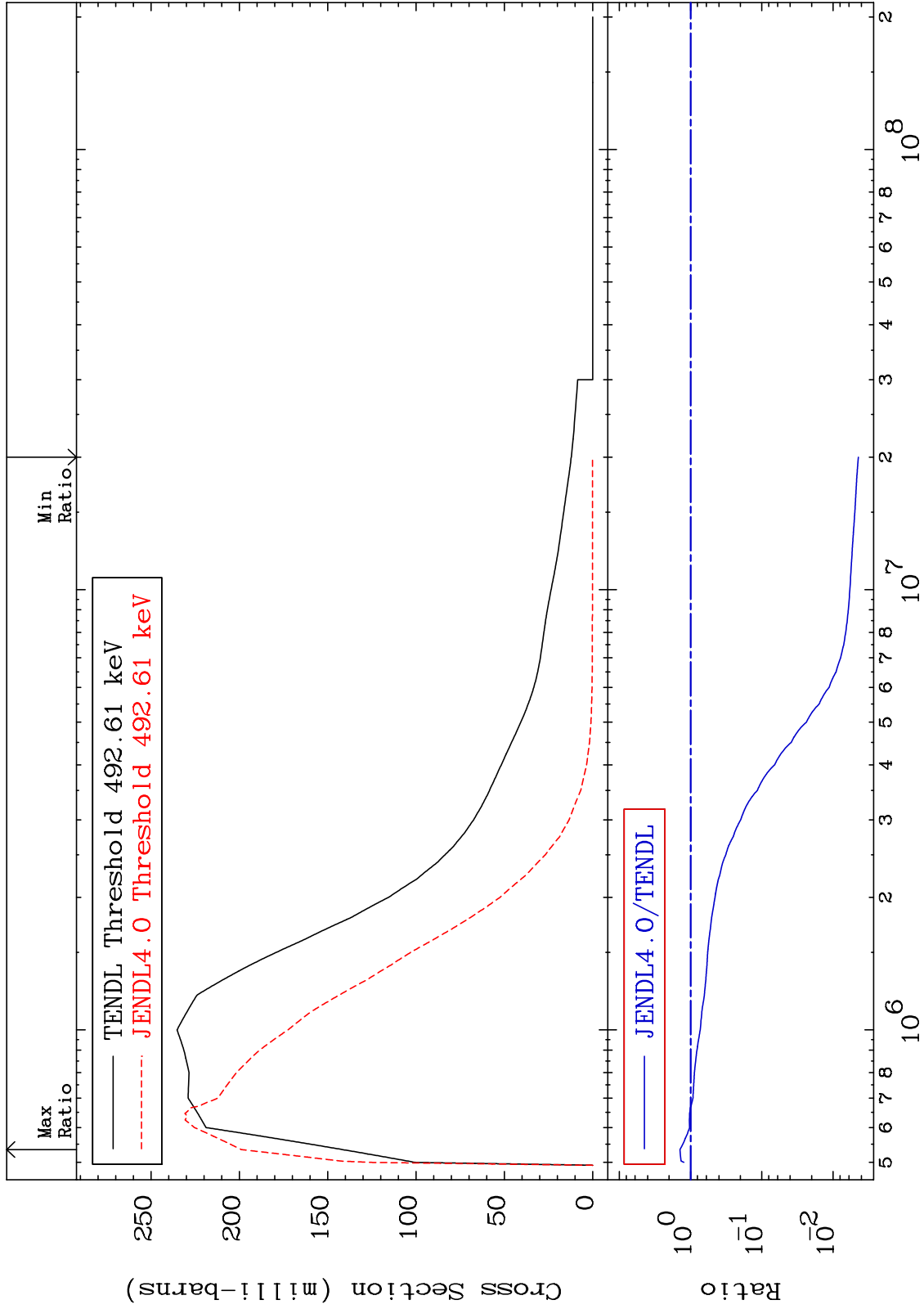
Incident Energy (eV)

61-Pm-147

MAT 6149

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

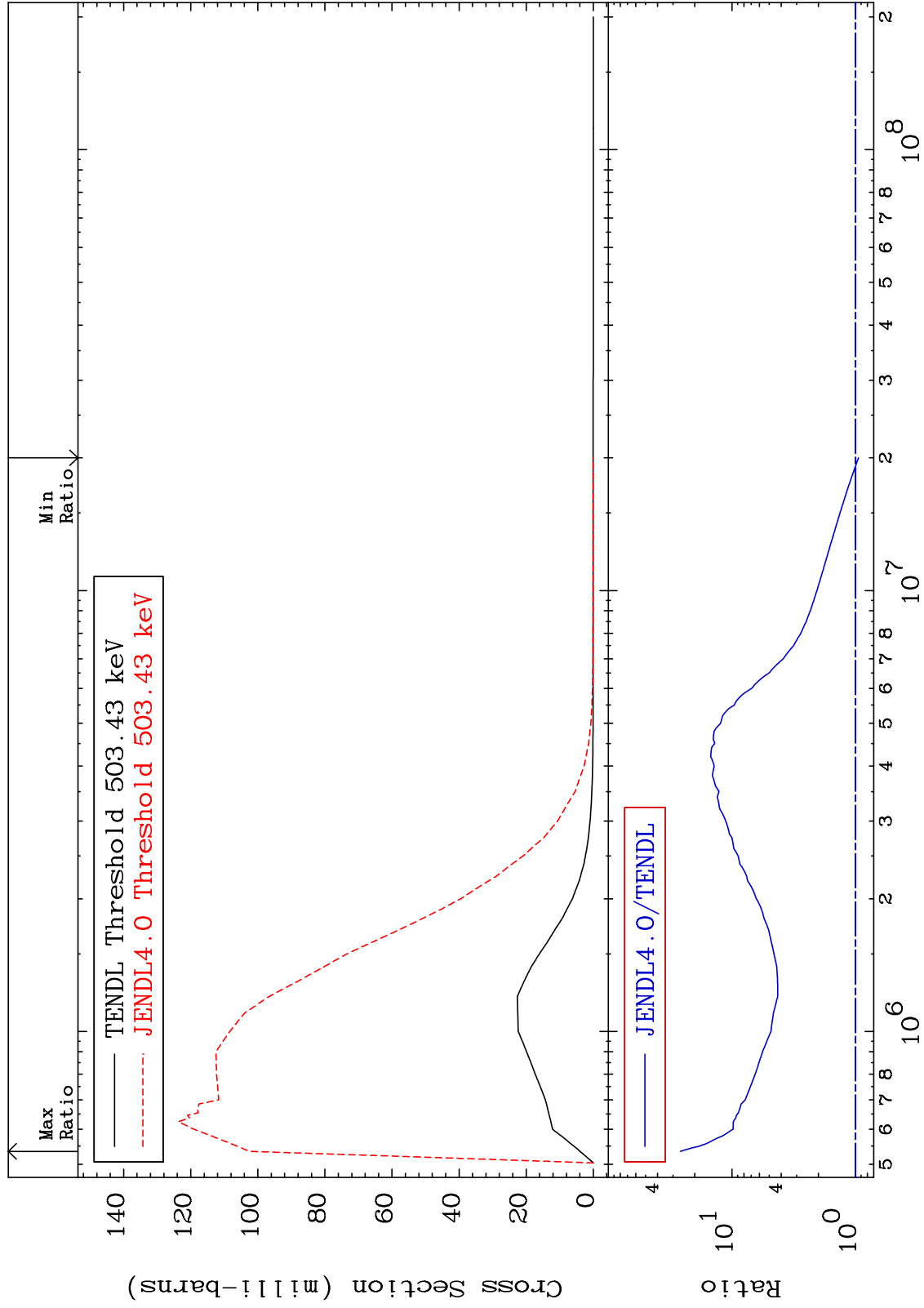
61-Pm-147  
-99.56 To 40.56 %



MAT 6149

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

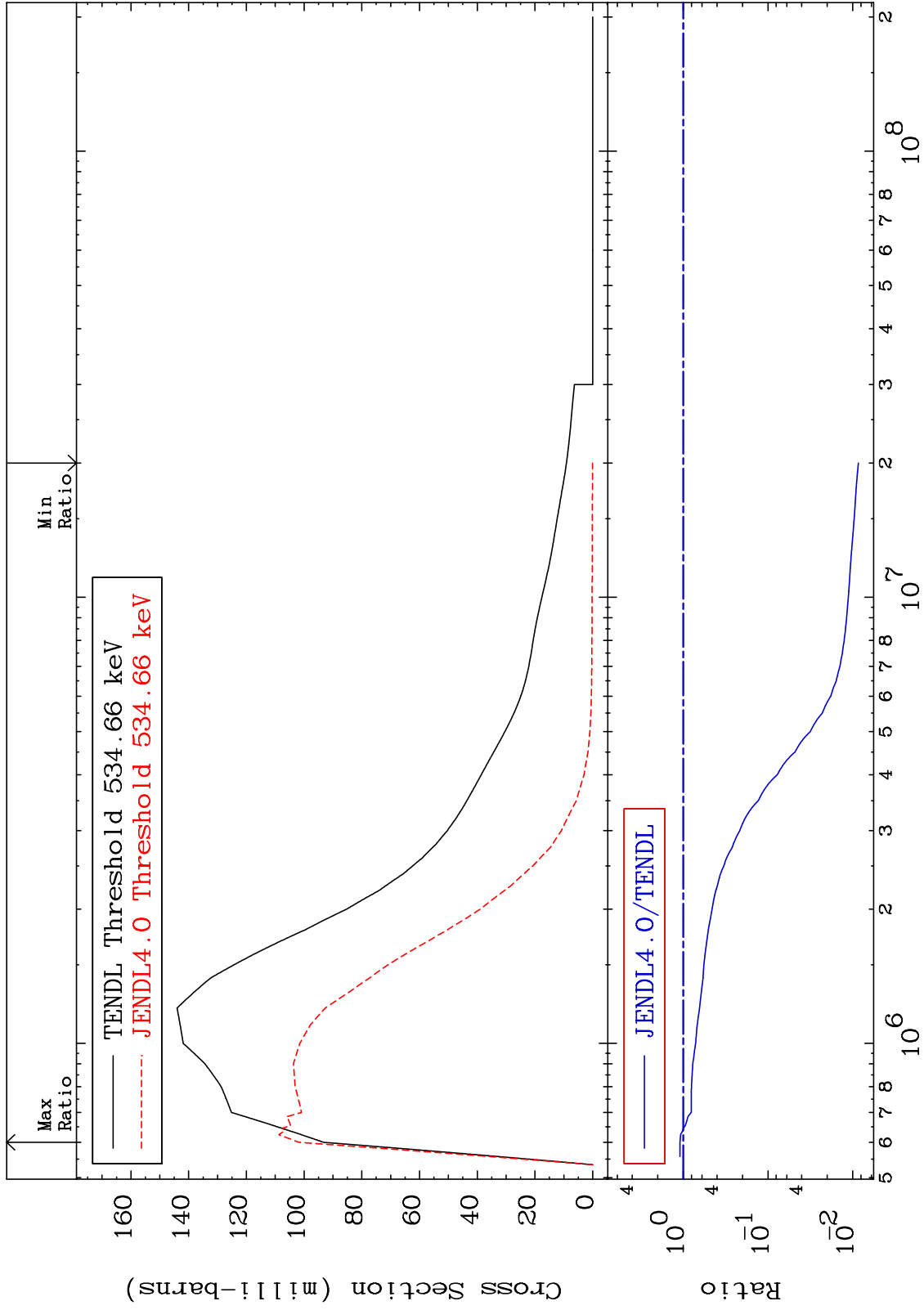
61-Pm-147  
-5.442 To 2510. %



MAT 6149

MT= 58 (n,n') Level  
Cross Section

61-Pm-147  
-99.14 To 9.164 %

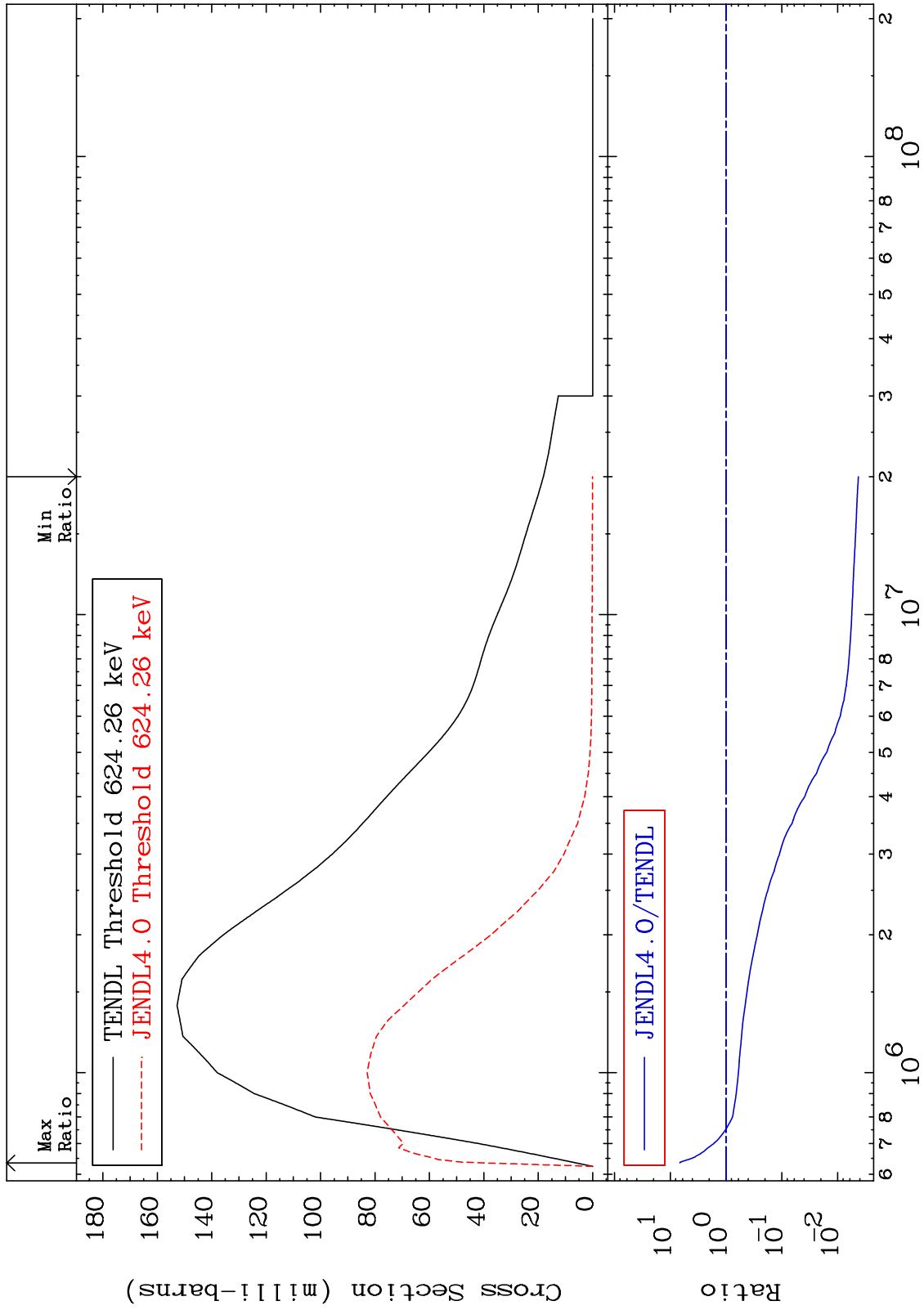


20

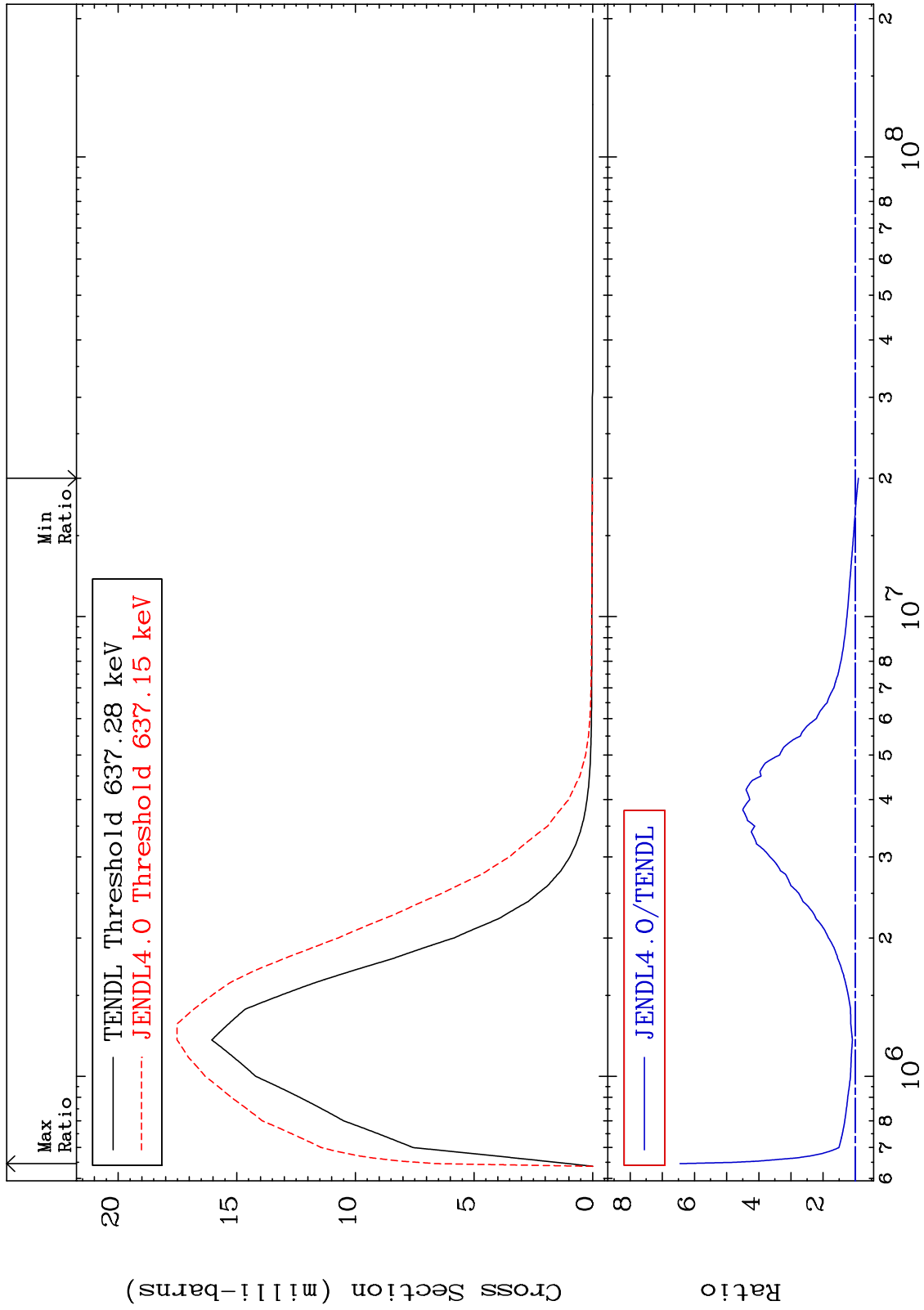
Incident Energy (eV)

61-Pm-147

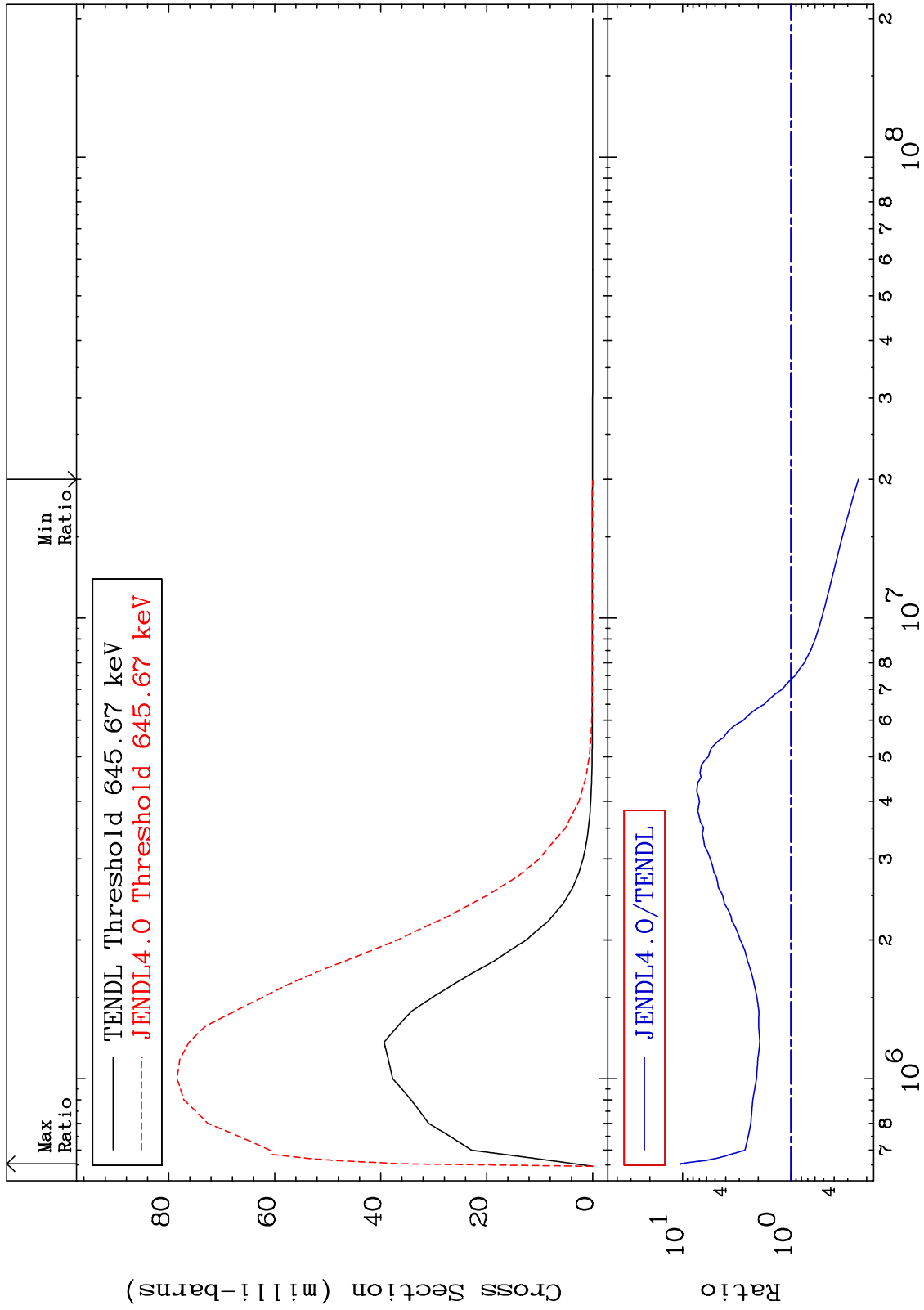
MAT 6149      MT= 59 (n,n') Level      61-Pm-147  
 Cross Section      -99.58 To 569.2 %



MAT 6149      MT= 60 (n,n') Level      61-Pm-147  
 Cross Section      -9.676 To 544.9 %



MAT 6149      MT= 61 (n,n') Level      61-Pm-147  
 Cross Section      -76.13 To 954.3 %

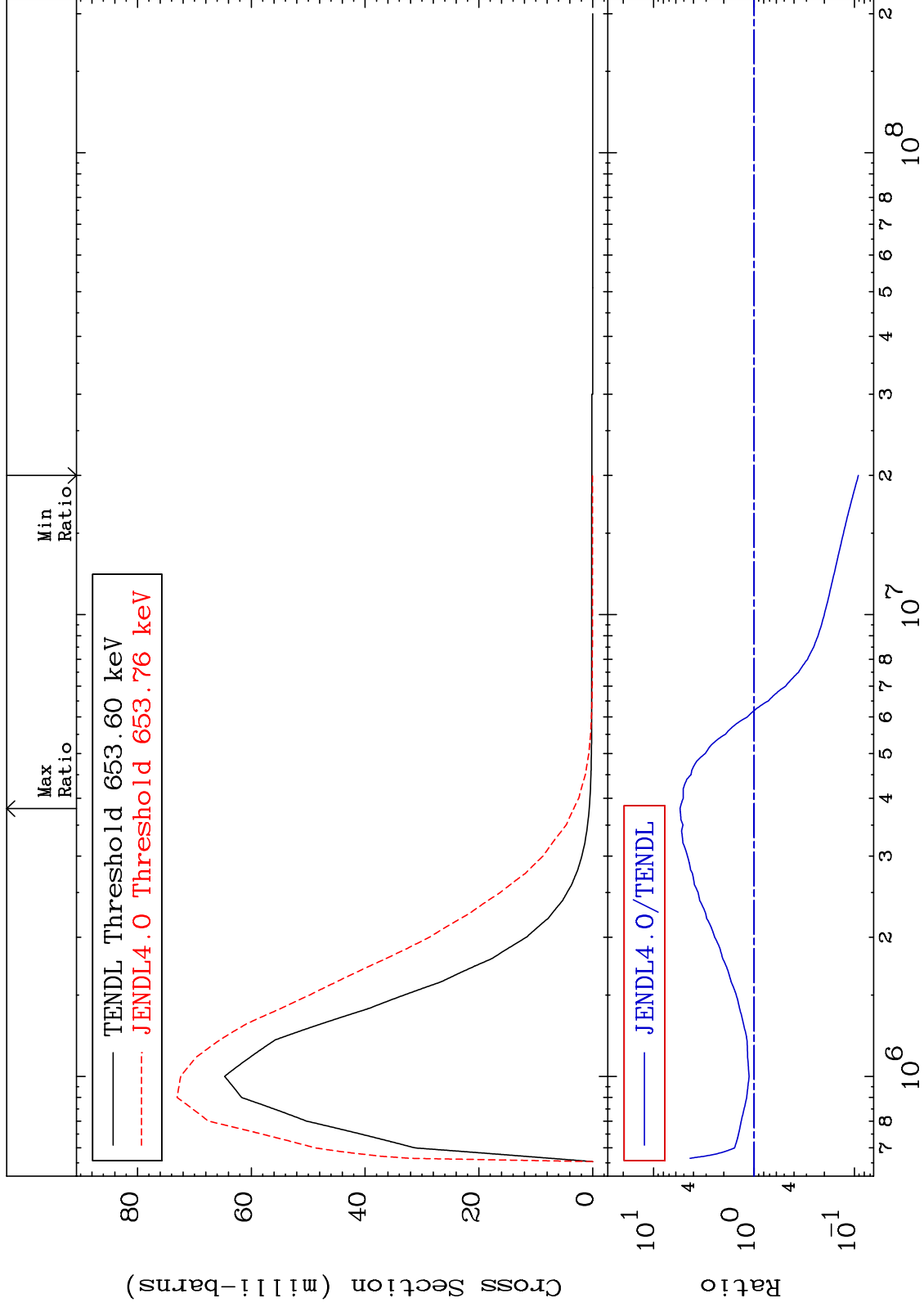




MAT 6149

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

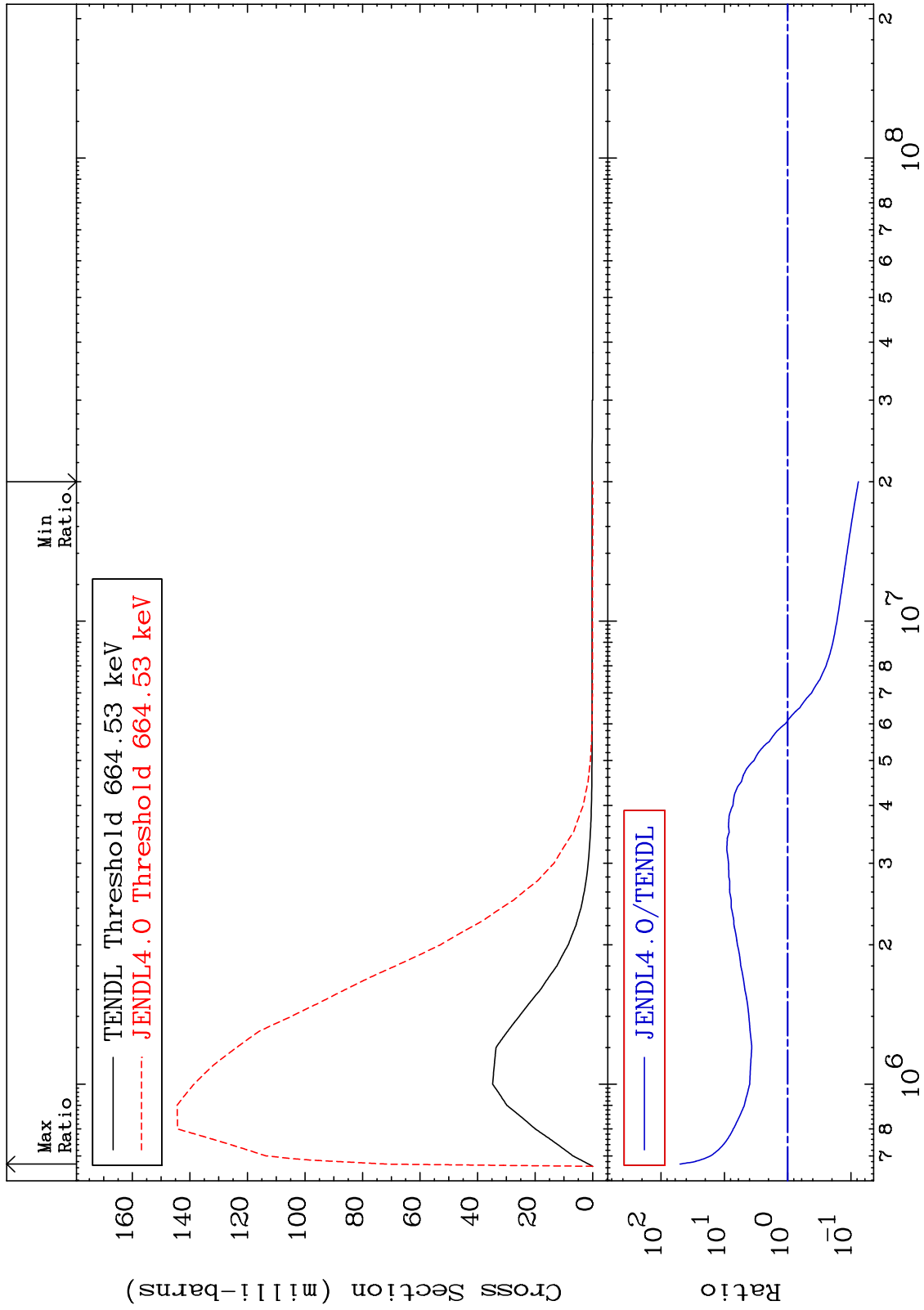
61-Pm-147  
-90.86 To 445.0 %



MAT 6149

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

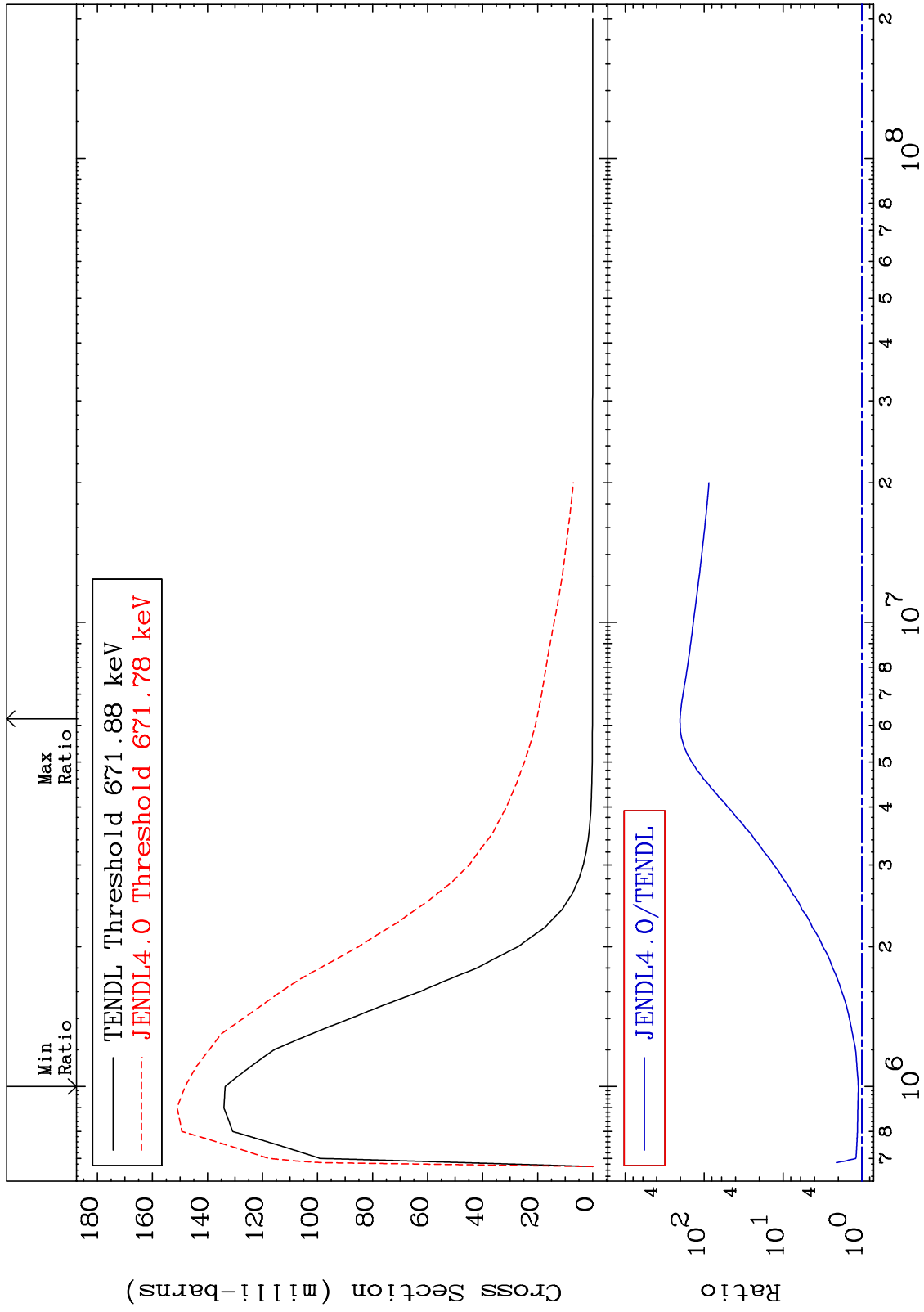
61-Pm-147  
-92.37 To 4912. %



MAT 6149

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

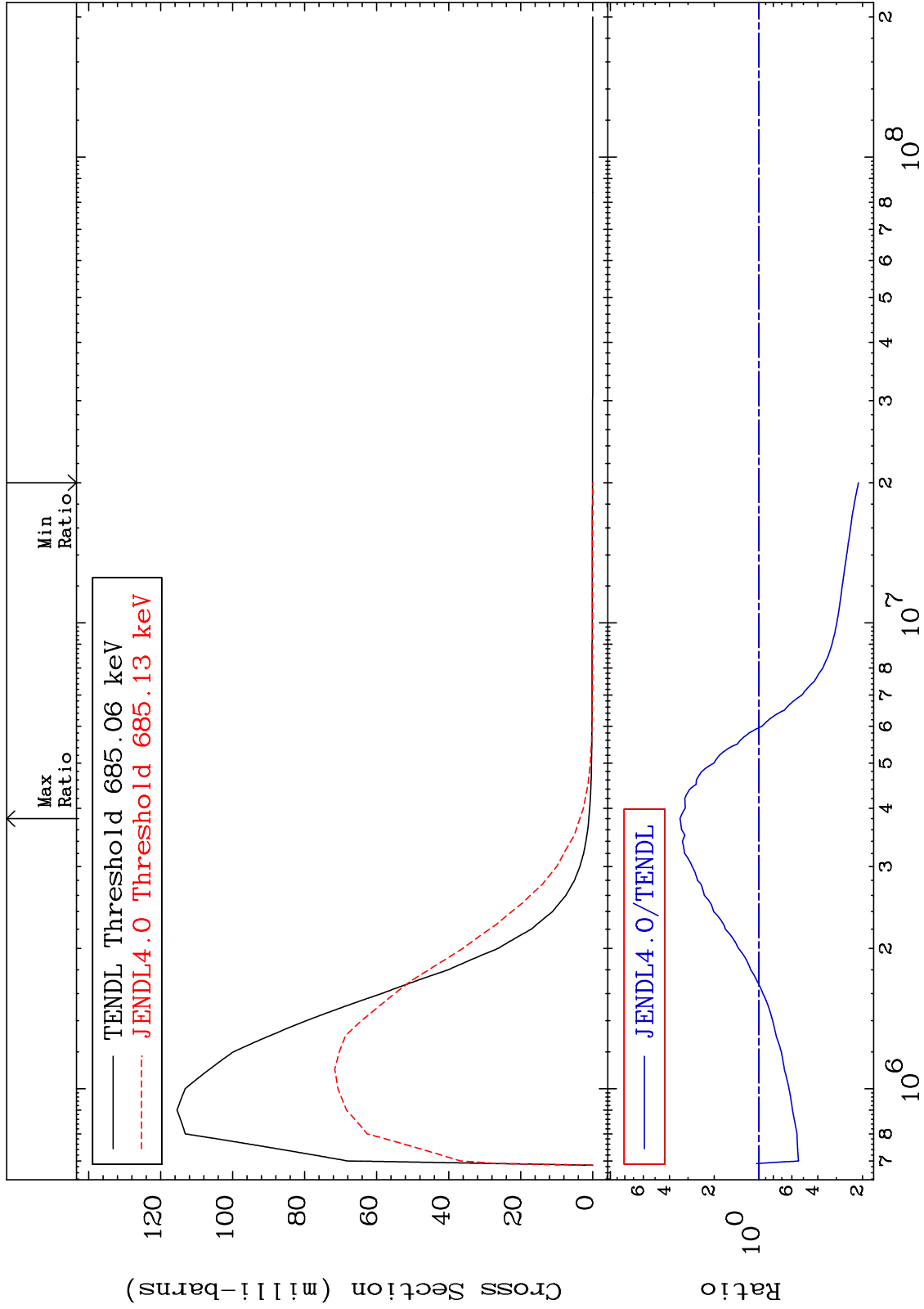
61-Pm-147  
10.90 To 9999. %



MAT 6149

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

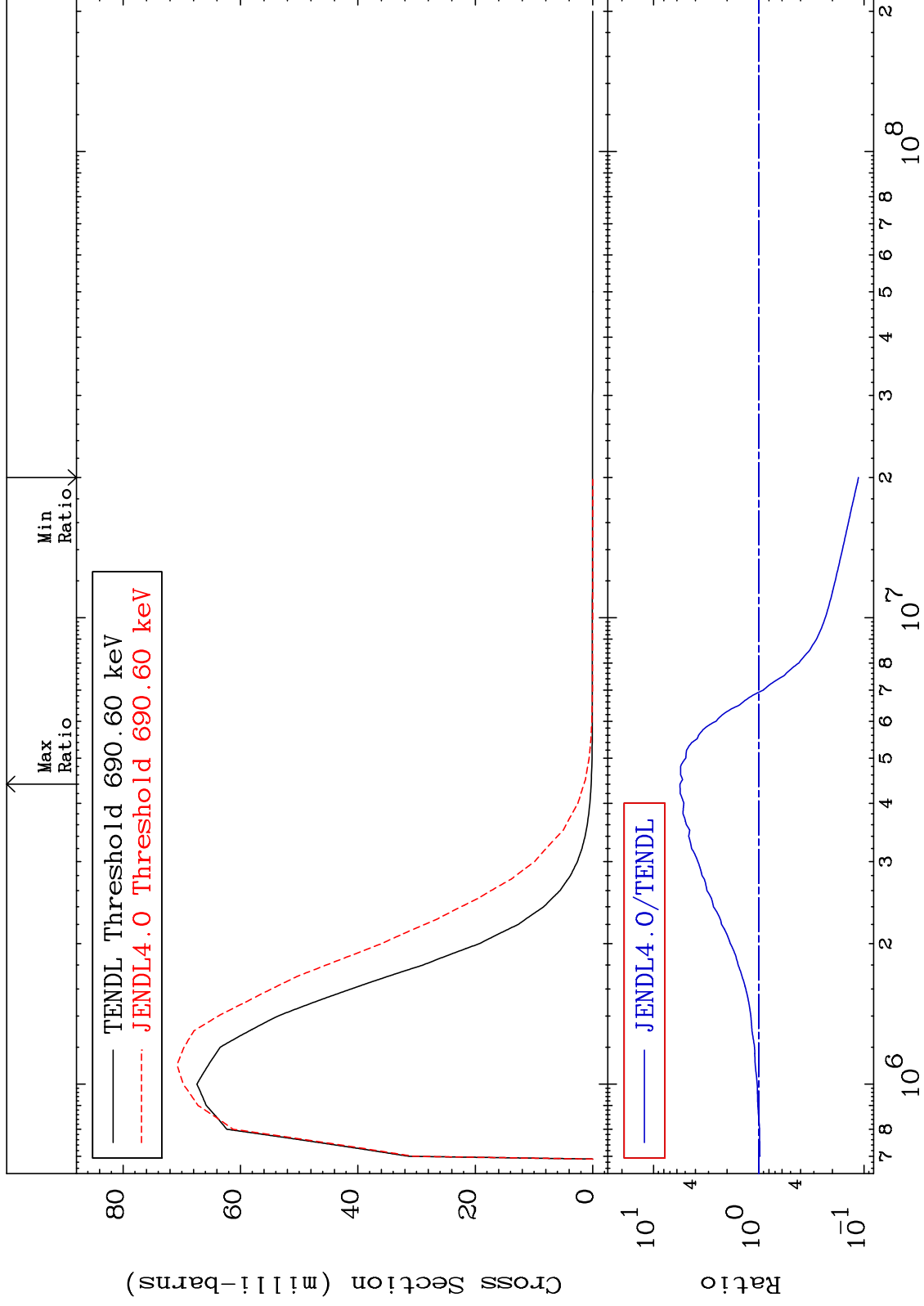
61-Pm-147  
-78.67 To 239.6 %



MAT 6149

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

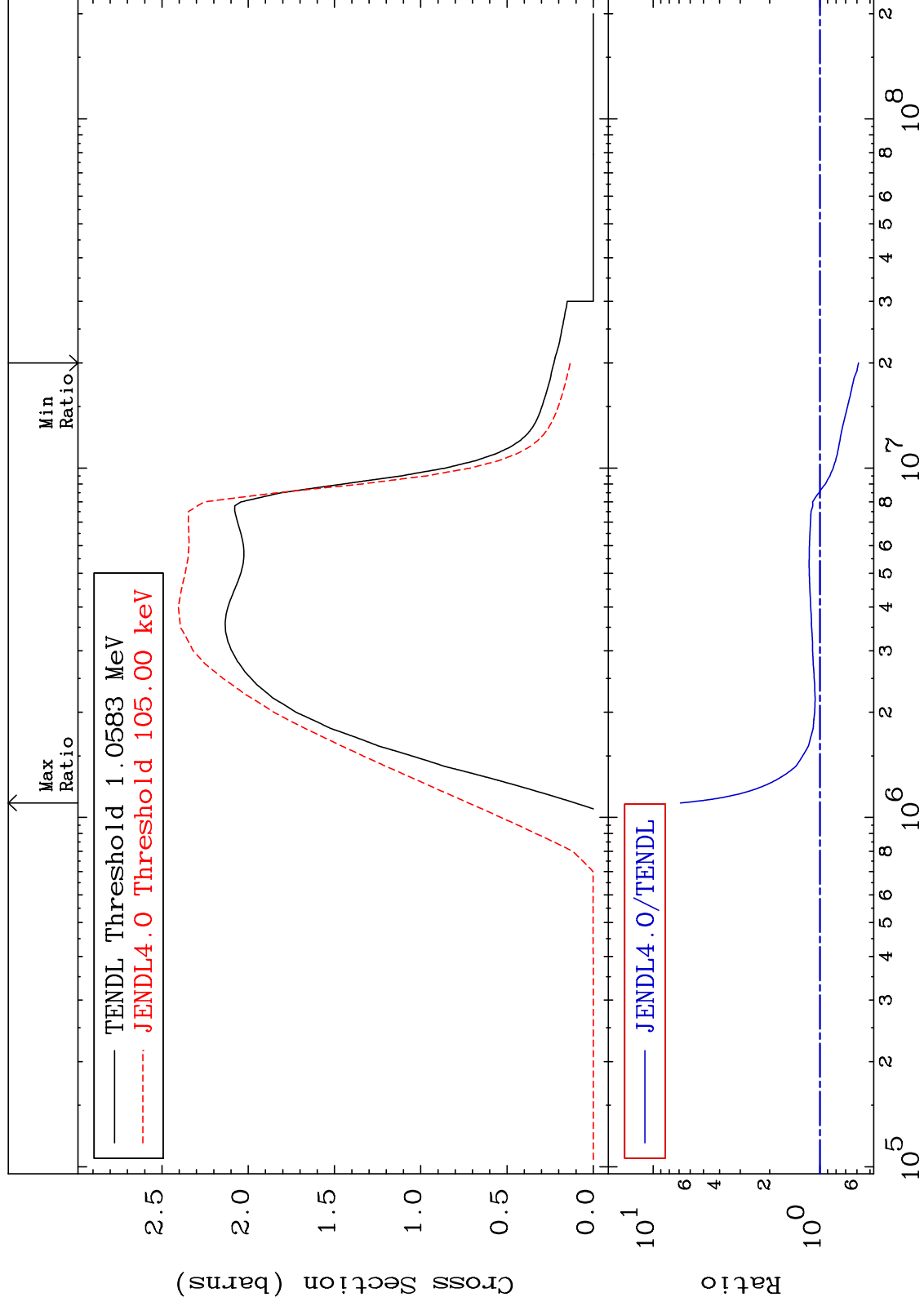
61-Pm-147  
-88.70 To 460.2 %



MAT 6149

(n, n') Continuum  
Cross Section

61-Pm-147  
-41.36 To 586.2 %



29

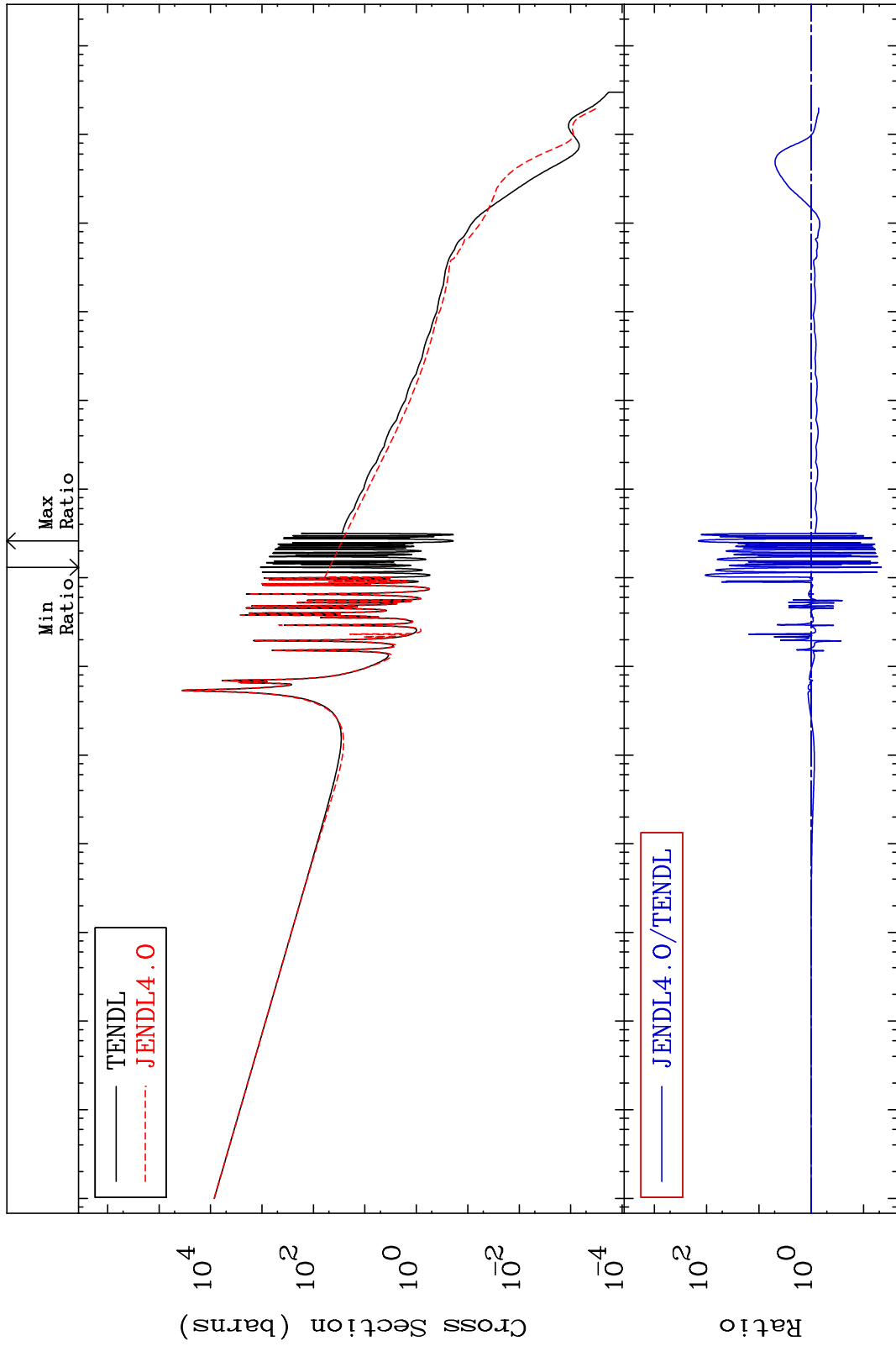
Incident Energy (eV)

61-Pm-147

MAT 6149

(n,  $\gamma$ )  
Cross Section

61-Pm-147  
-95.48 To 9999. %



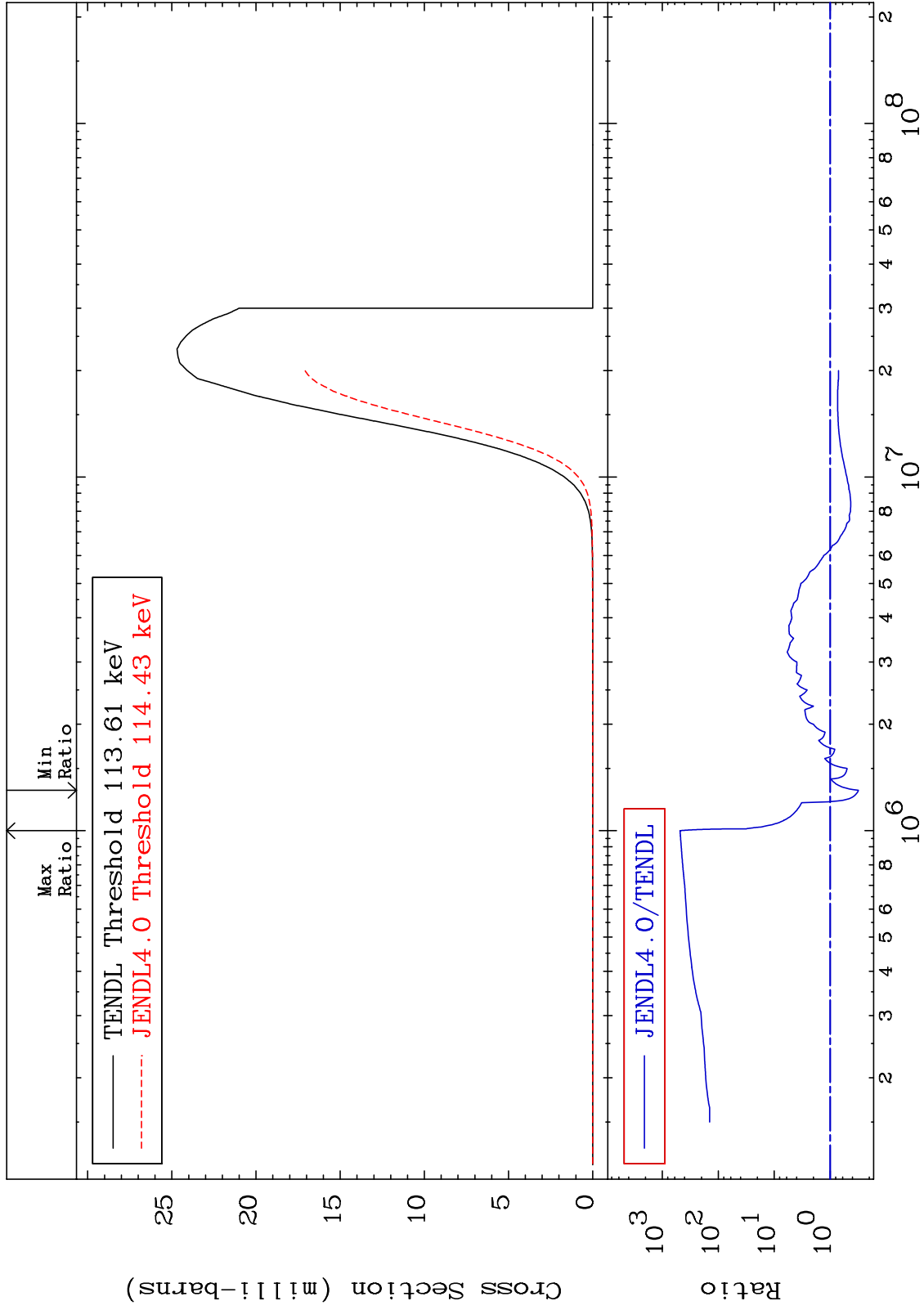
MAT 6149

(n,p)

61-Pm-147

Cross Section

-68.62 To 9999. %





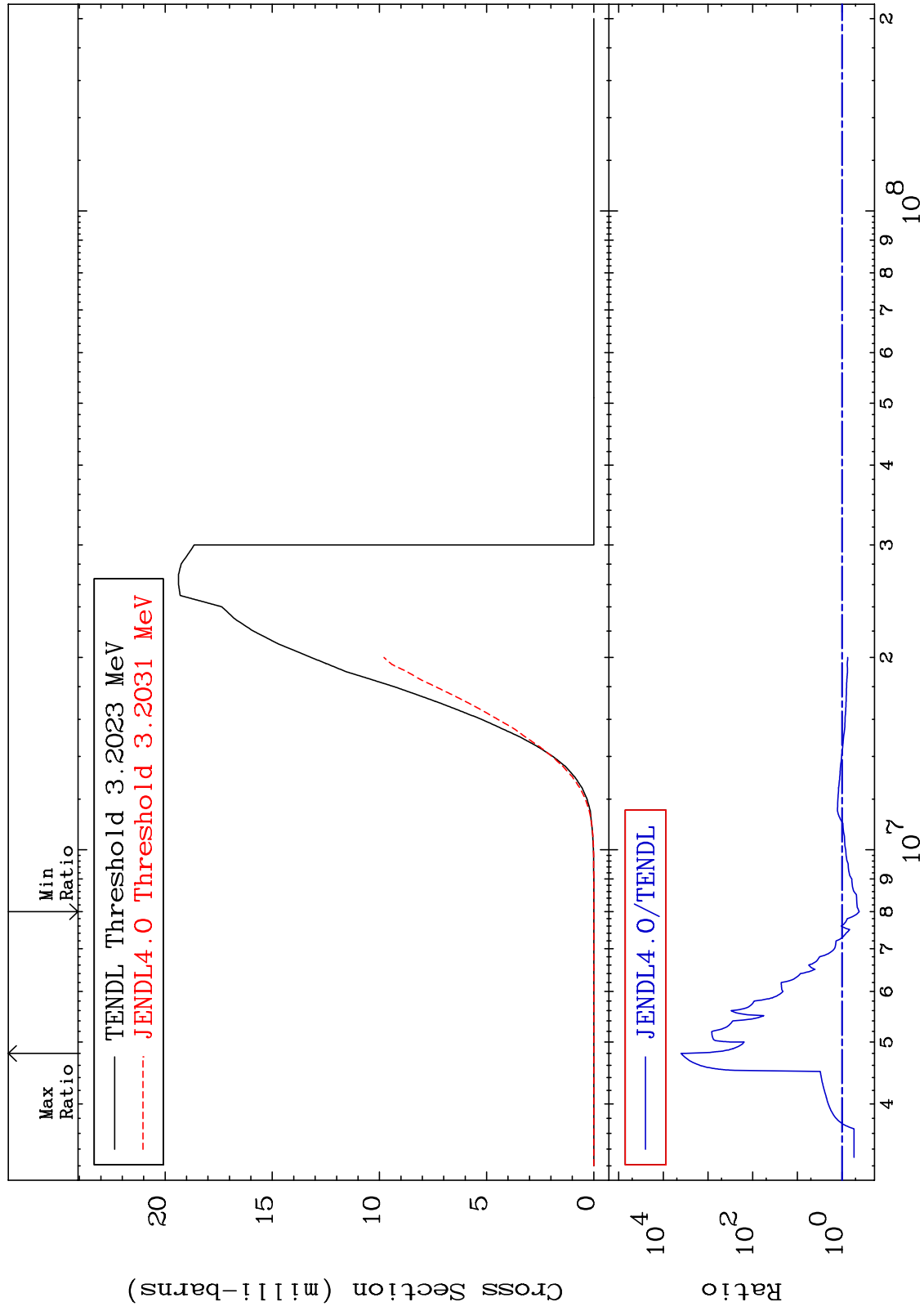
MAT 6149

(n,d)

61-Pm-147

Cross Section

-58.94 To 9999. %



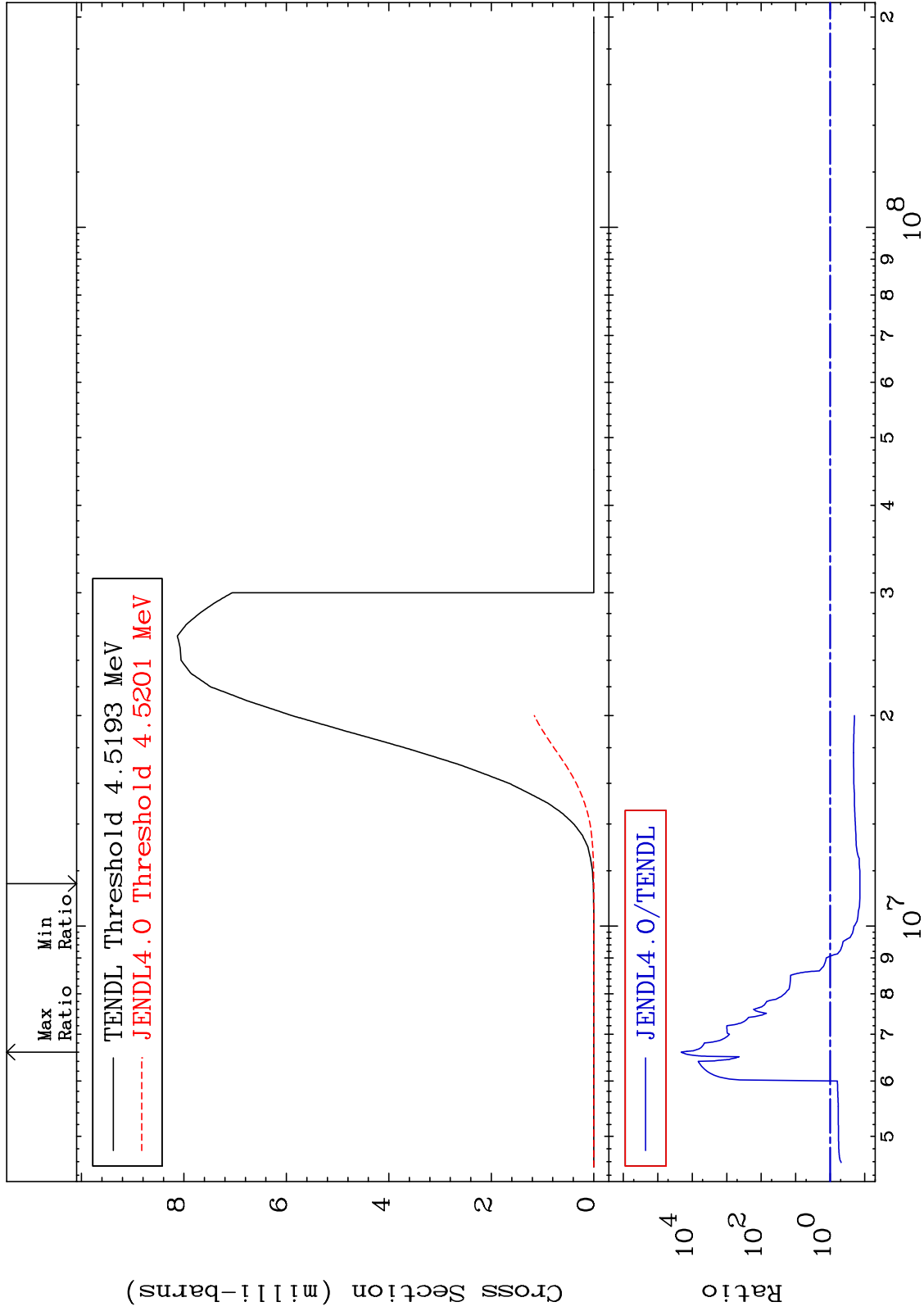
MAT 6149

(n, t)

61-Pm-147

Cross Section

-86.25 To 9999. %



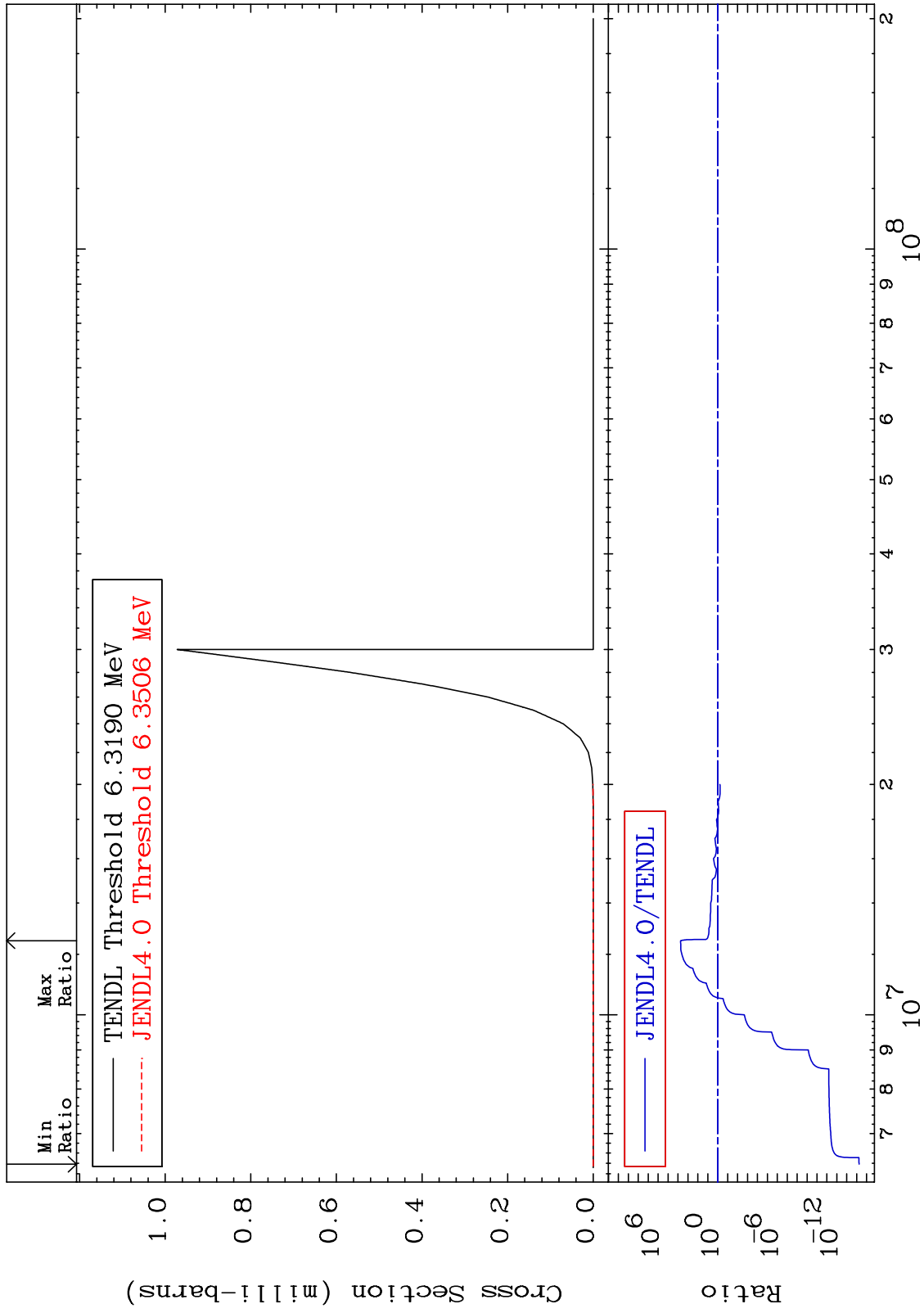
MAT 6149

(n, He-3)

61-Pm-147

Cross Section

-100.0 To 9999. %



61-Pm-147

Incident Energy (eV)

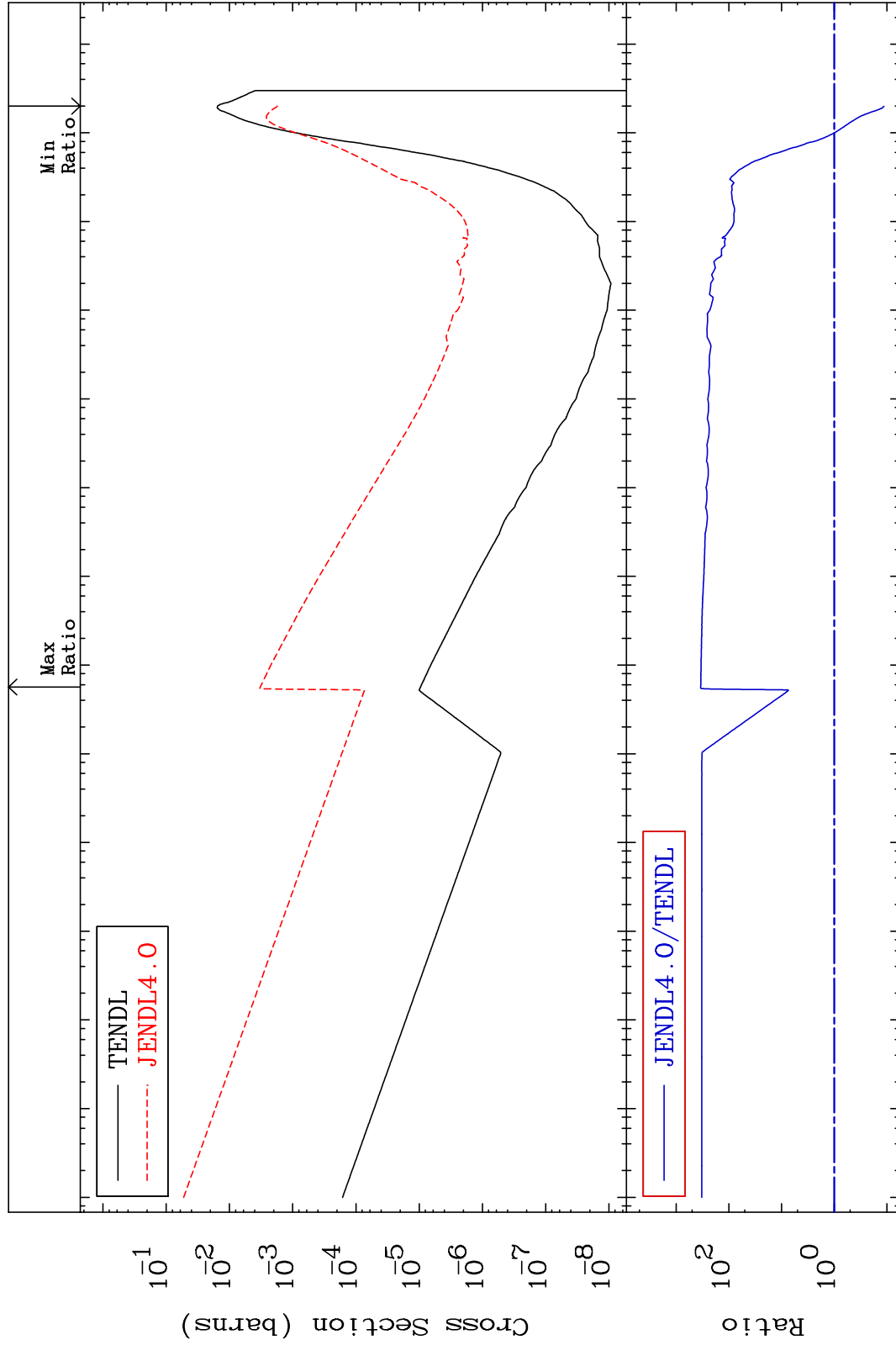
MAT 6149

(n,  $\alpha$ )

61-Pm-147

Cross Section

-88.69 To 9999. %



Incident Energy (eV)

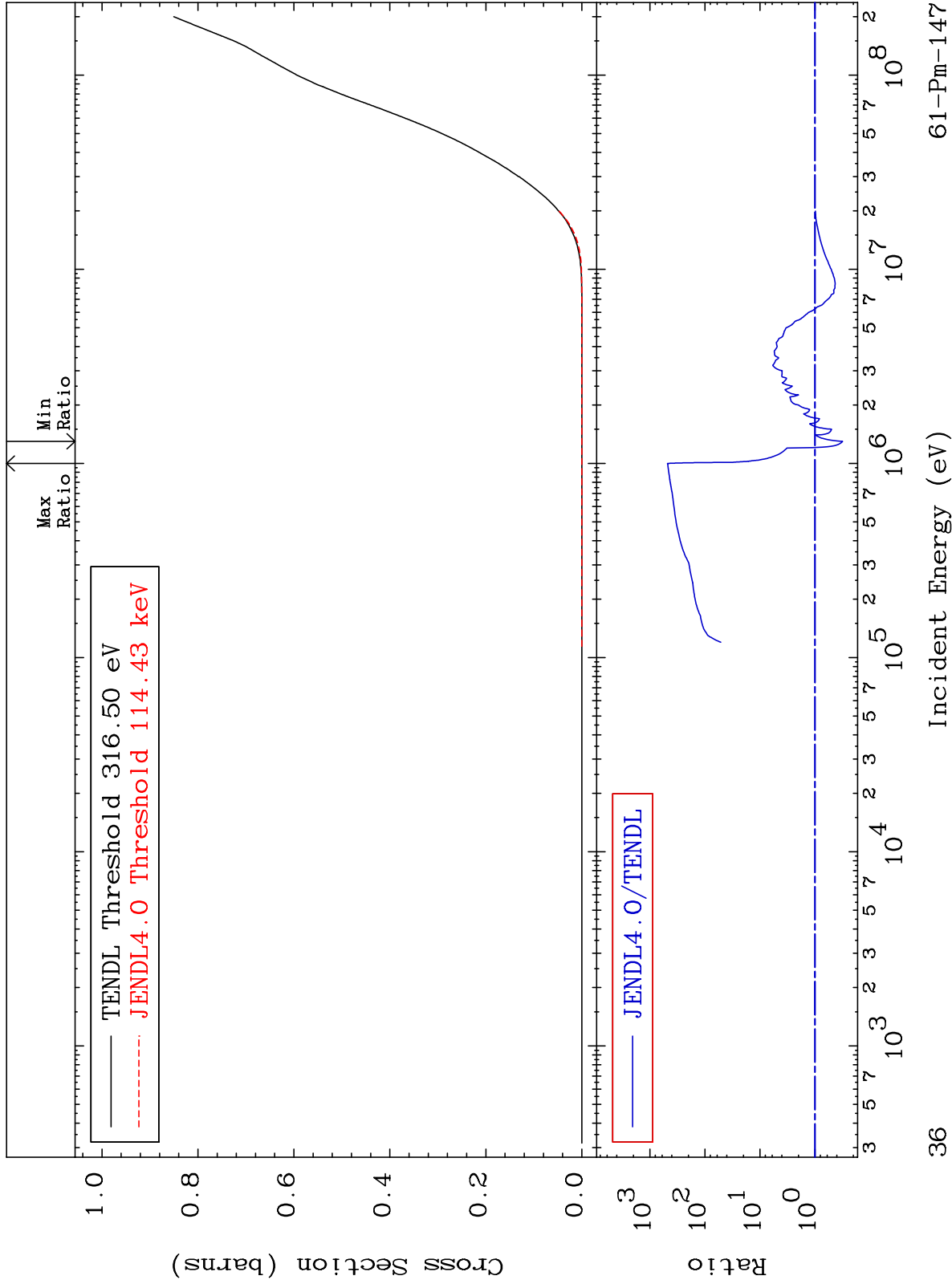
35

61-Pm-147

MAT 6149

Hydrogen Production  
Cross Section

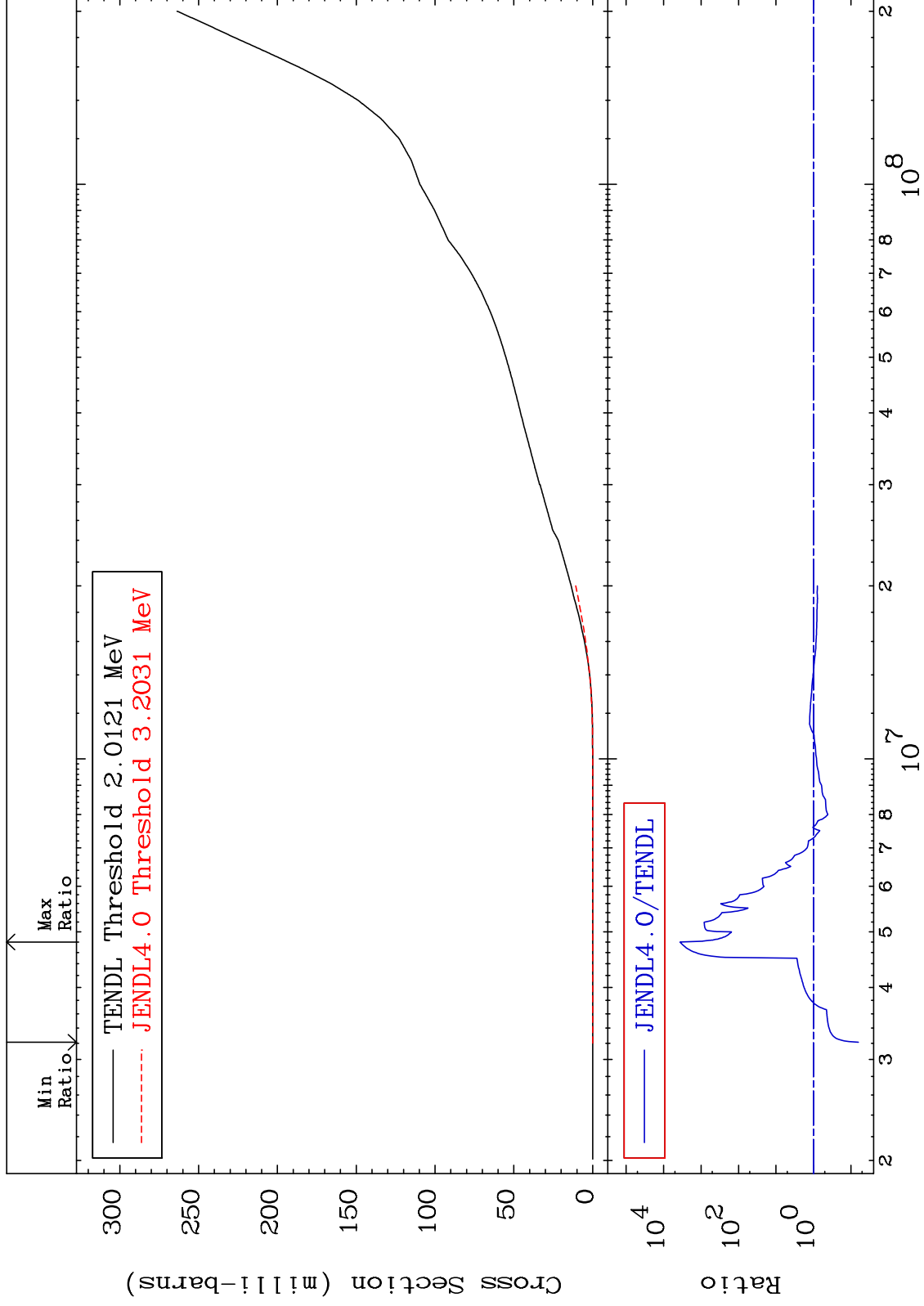
61-Pm-147  
-68.62 To 9999. %



MAT 6149

Deuterium Production  
Cross Section

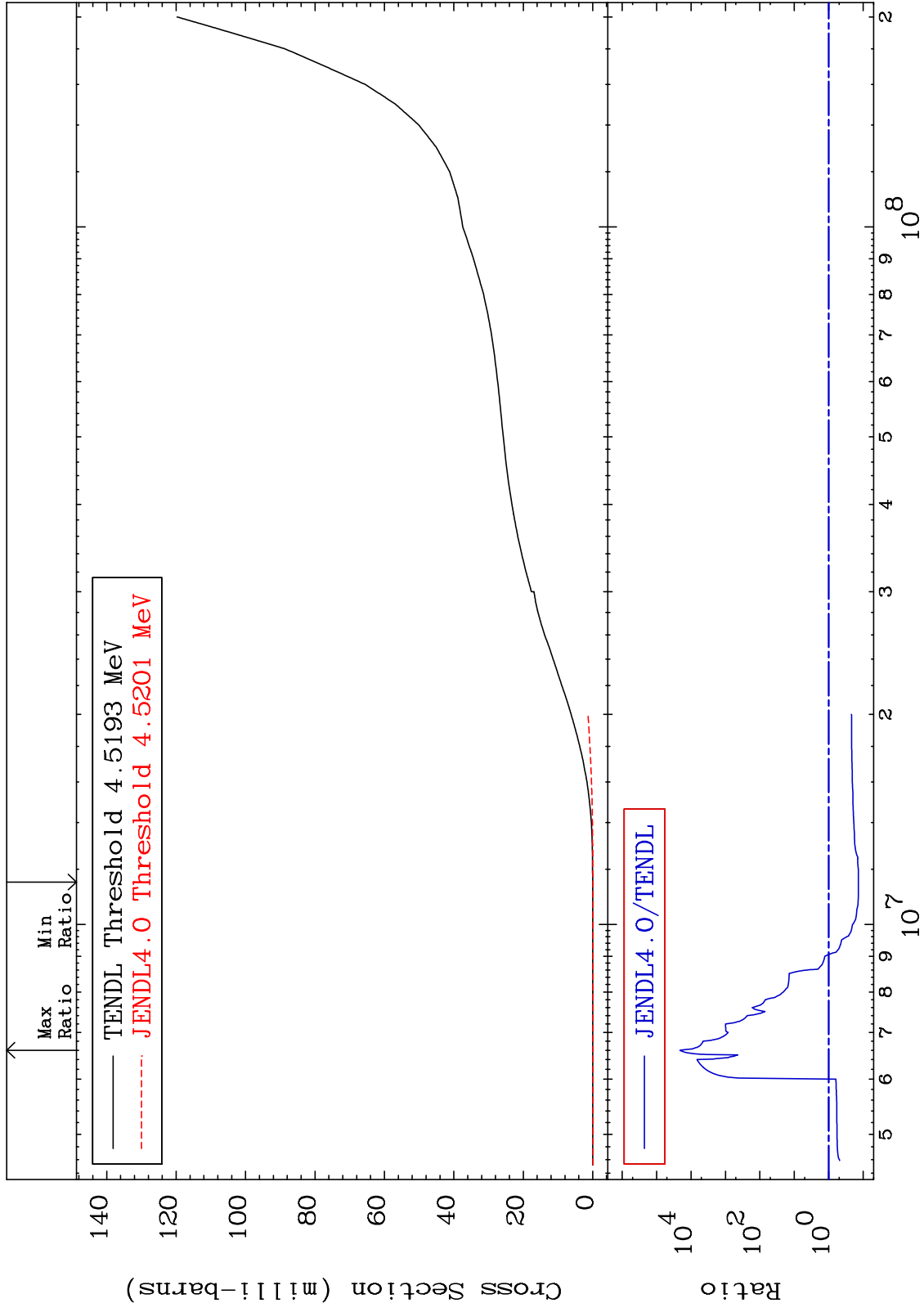
61-Pm-147  
-93.71 To 9999. %



MAT 6149

Tritium Production  
Cross Section

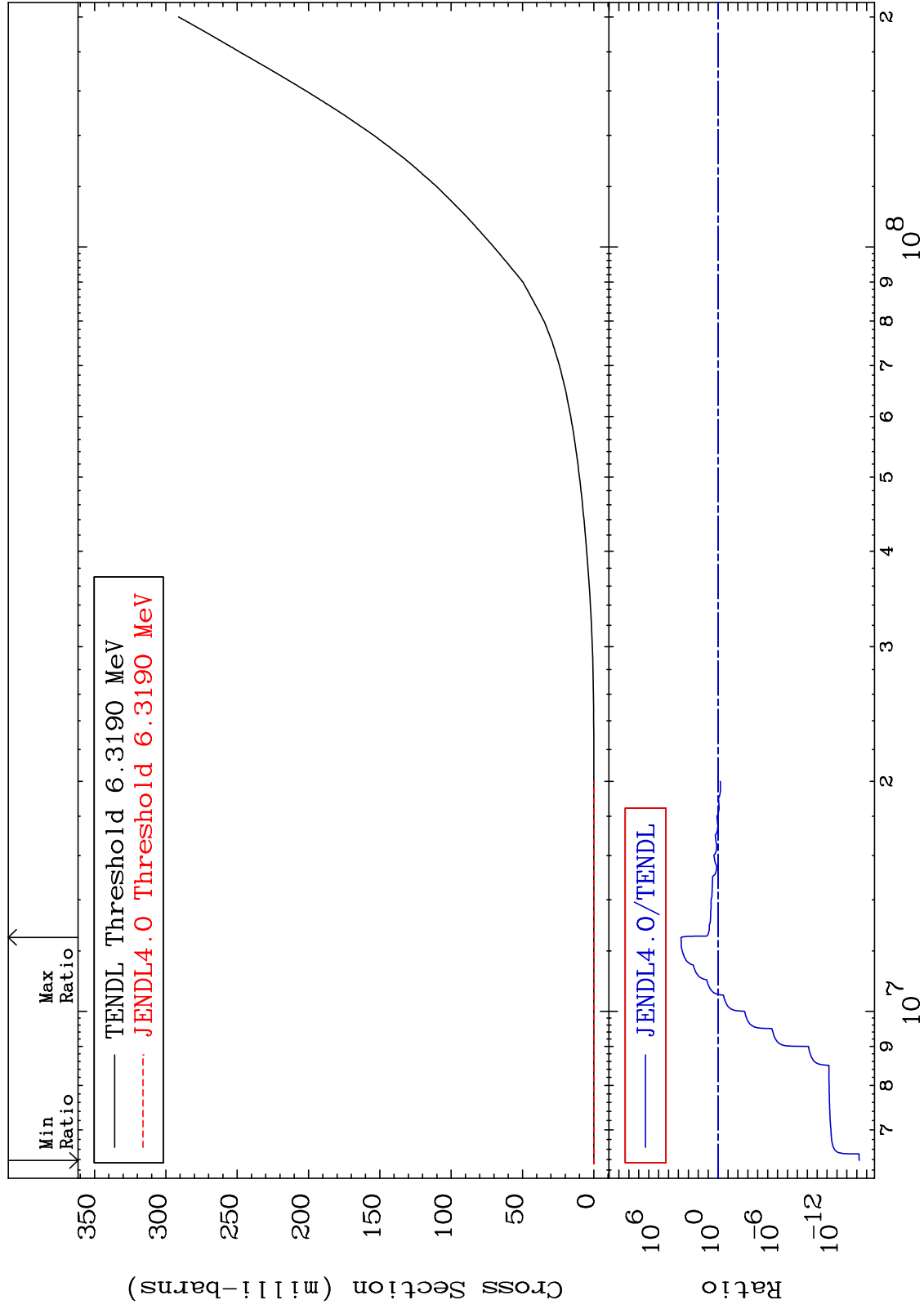
61-Pm-147  
-86.25 To 9999. %



MAT 6149

He-3 Production  
Cross Section

61-Pm-147  
-100.0 To 9999. %

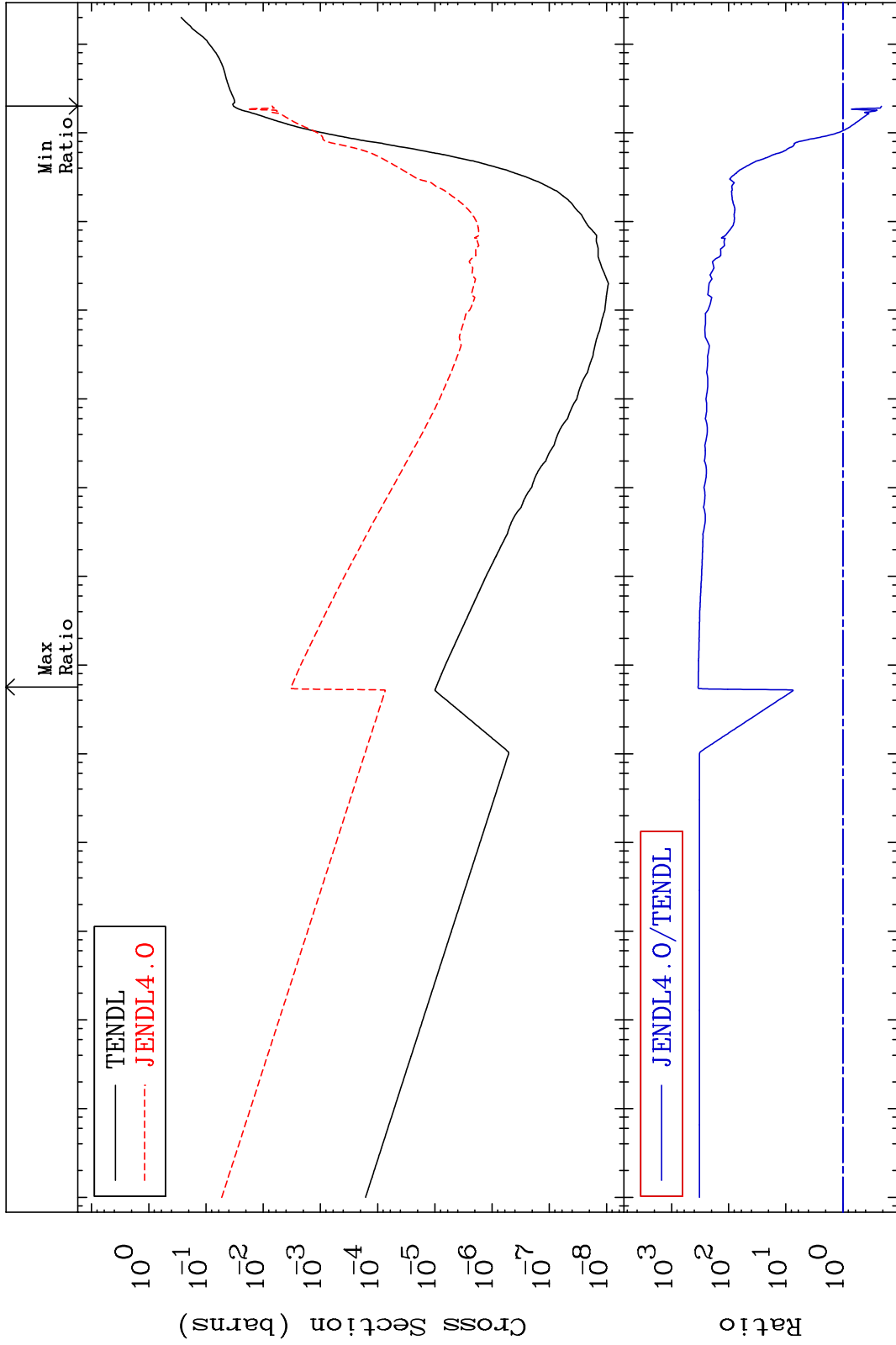




MAT 6149

He-4 Production  
Cross Section

61-Pm-147  
-79.00 To 9999. %



40

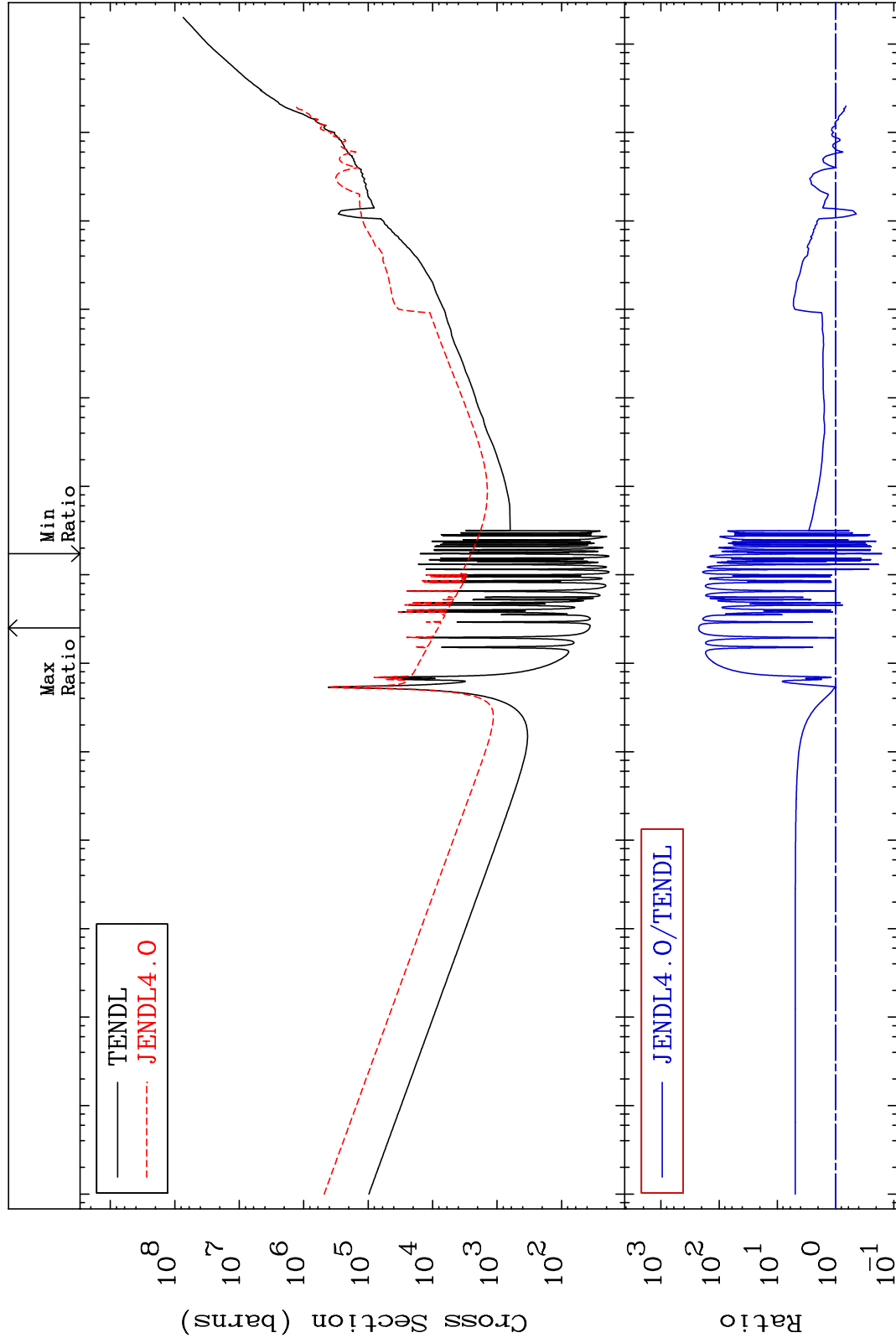
Incident Energy (eV)

61-Pm-147

MAT 6149

Kerma total (eV-barns)  
Cross Section

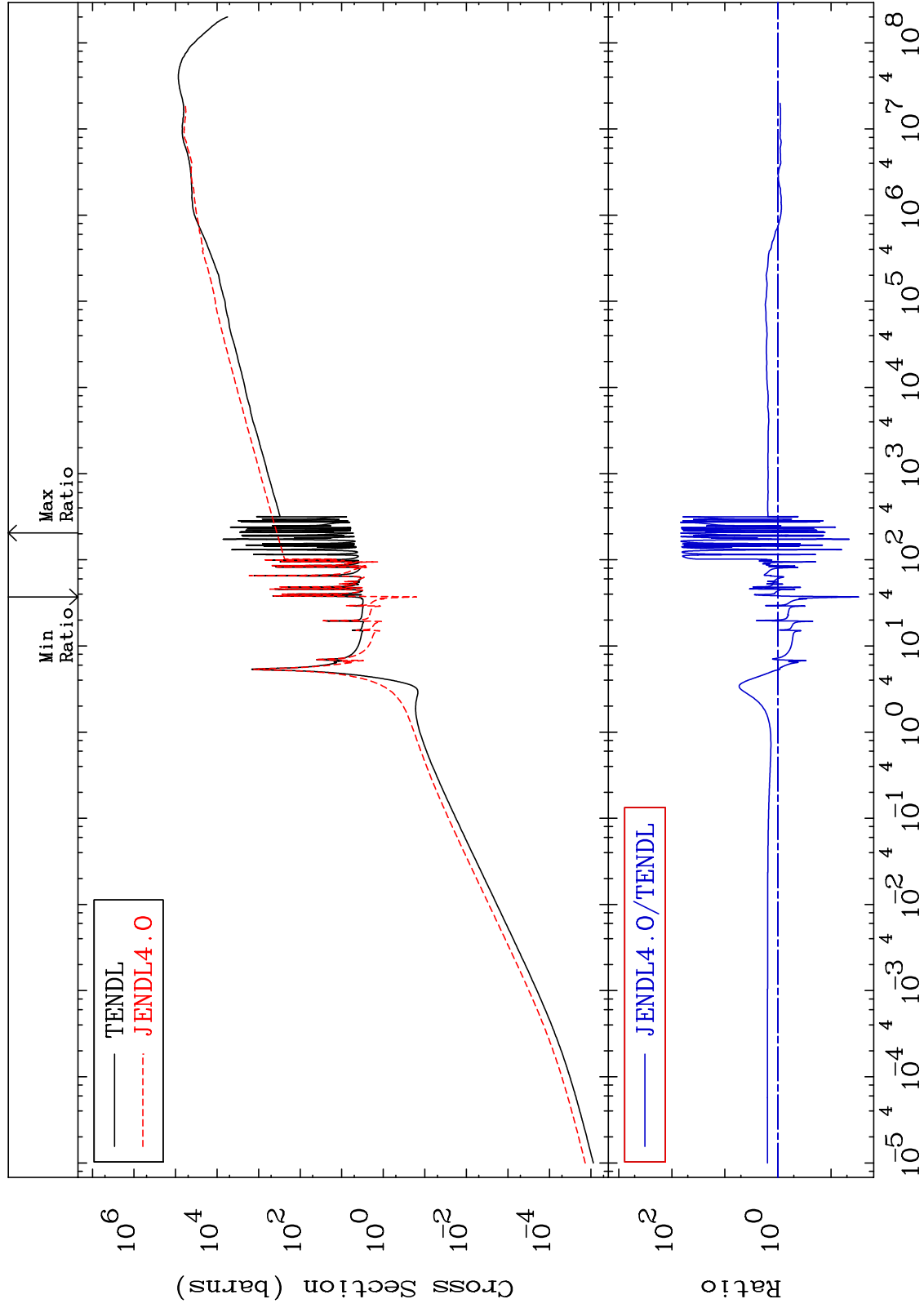
61-Pm-147  
-83.80 To 9999. %



MAT 6149

Kerma elastic  
Cross Section

61-Pm-147  
-96.98 To 6777. %



42

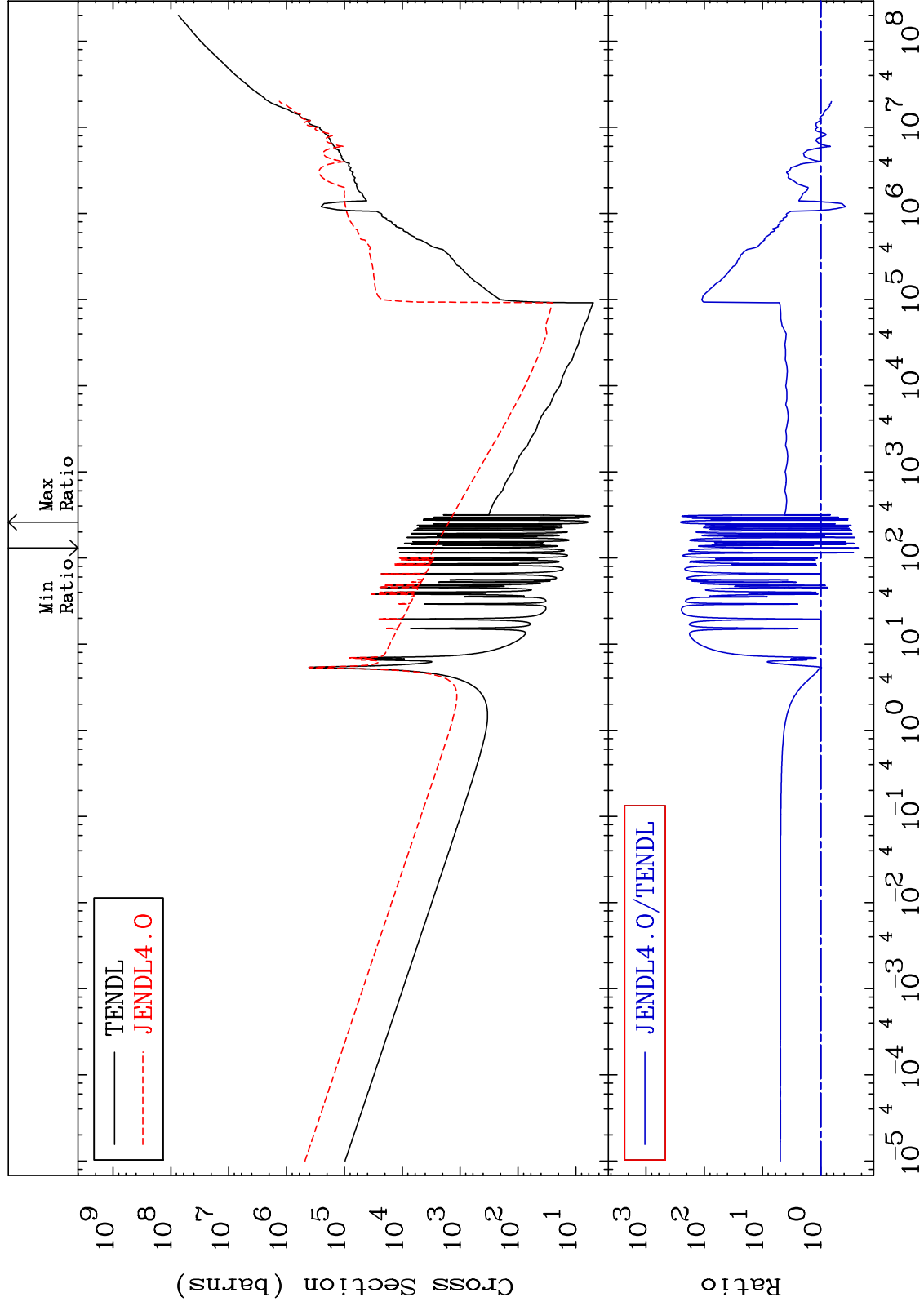
Incident Energy (eV)

61-Pm-147

MAT 6149

Kerma non-elastic (all but mt2)  
Cross Section

61-Pm-147  
-77.44 To 9999. %



43

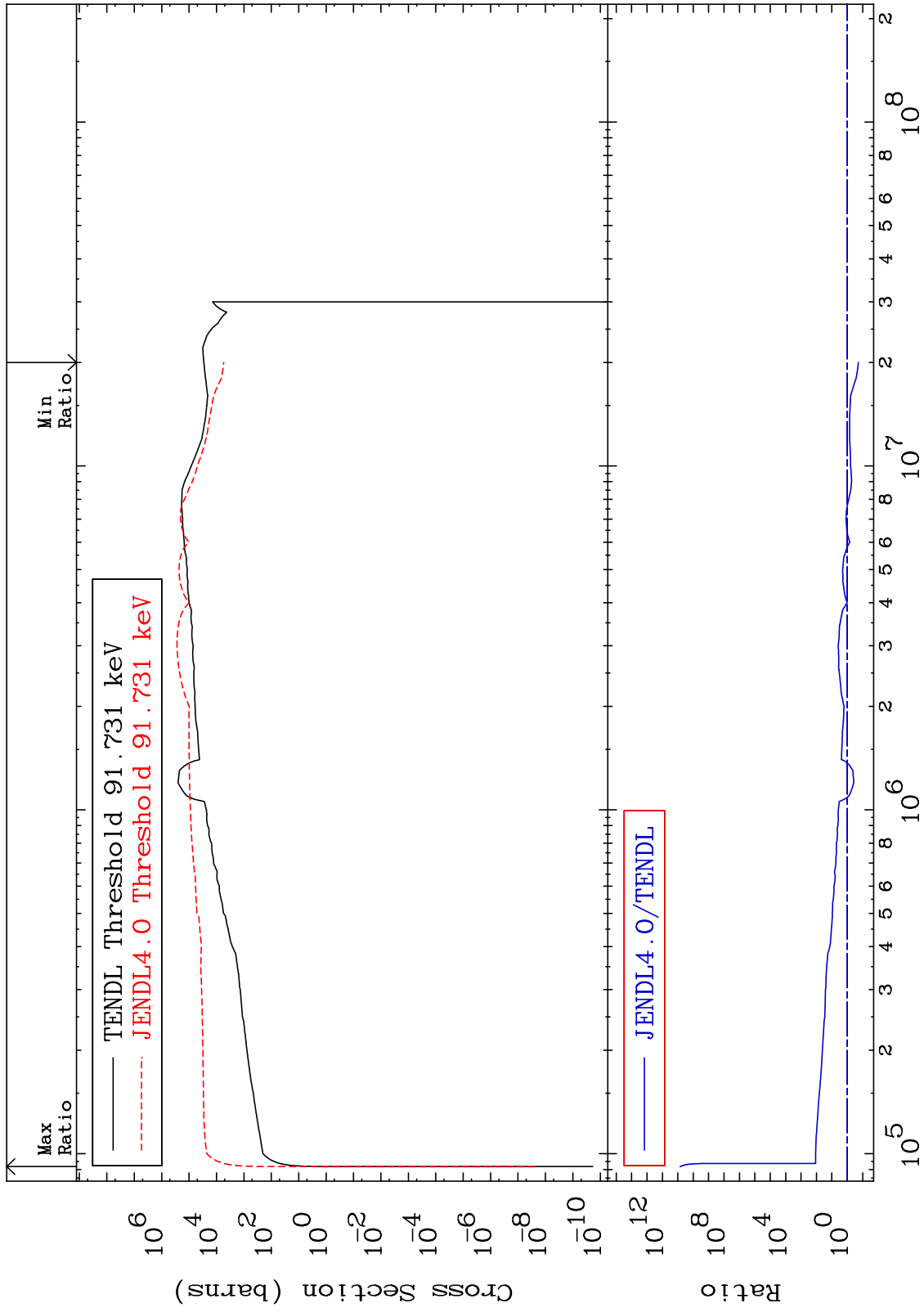
Incident Energy (eV)

61-Pm-147

MAT 6149

Kerma inelastic (mt51-91)  
Cross Section

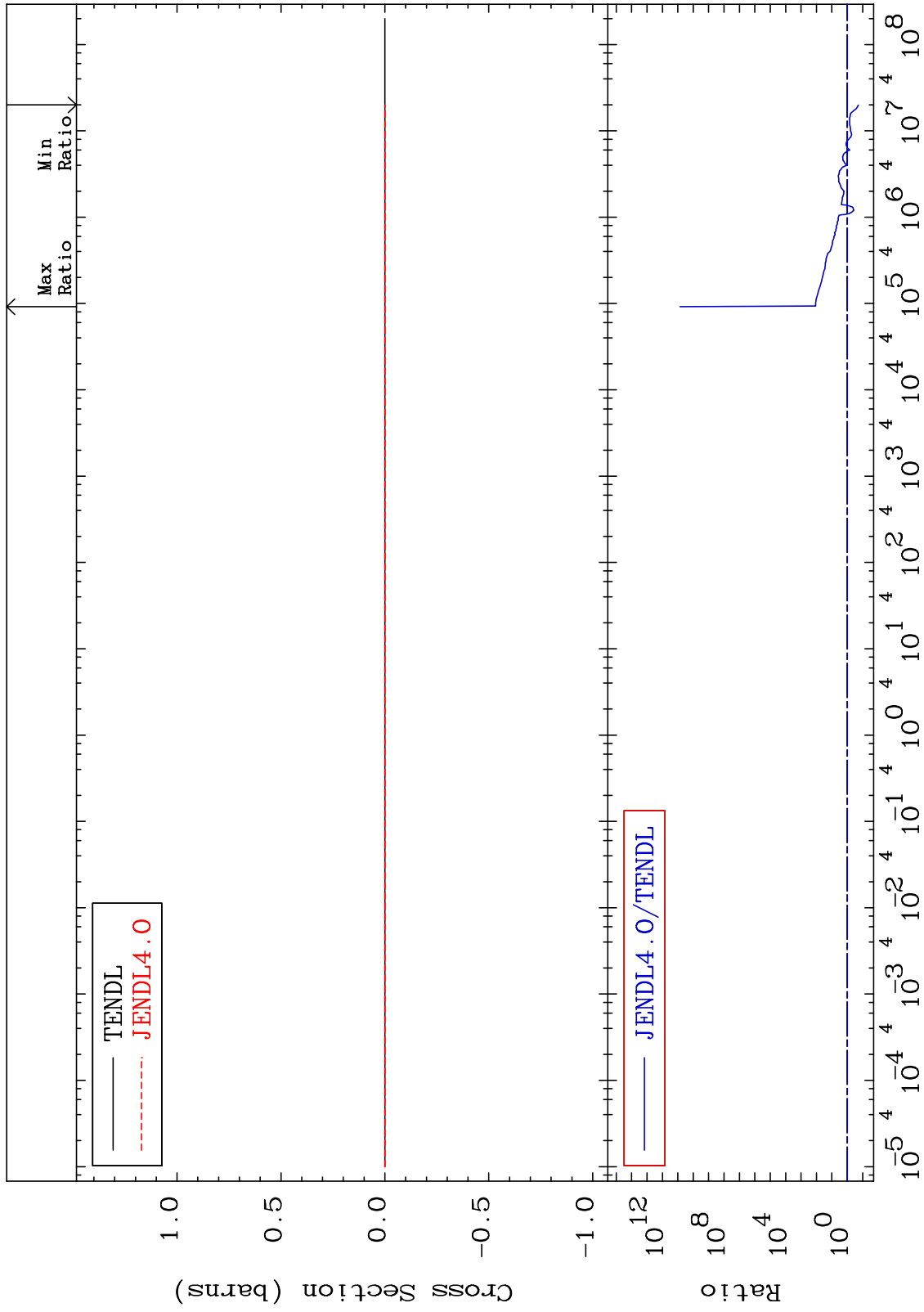
61-Pm-147  
-81.16 To 9999. %



MAT 6149

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

61-Pm-147  
-81.16 To 9999. %



45

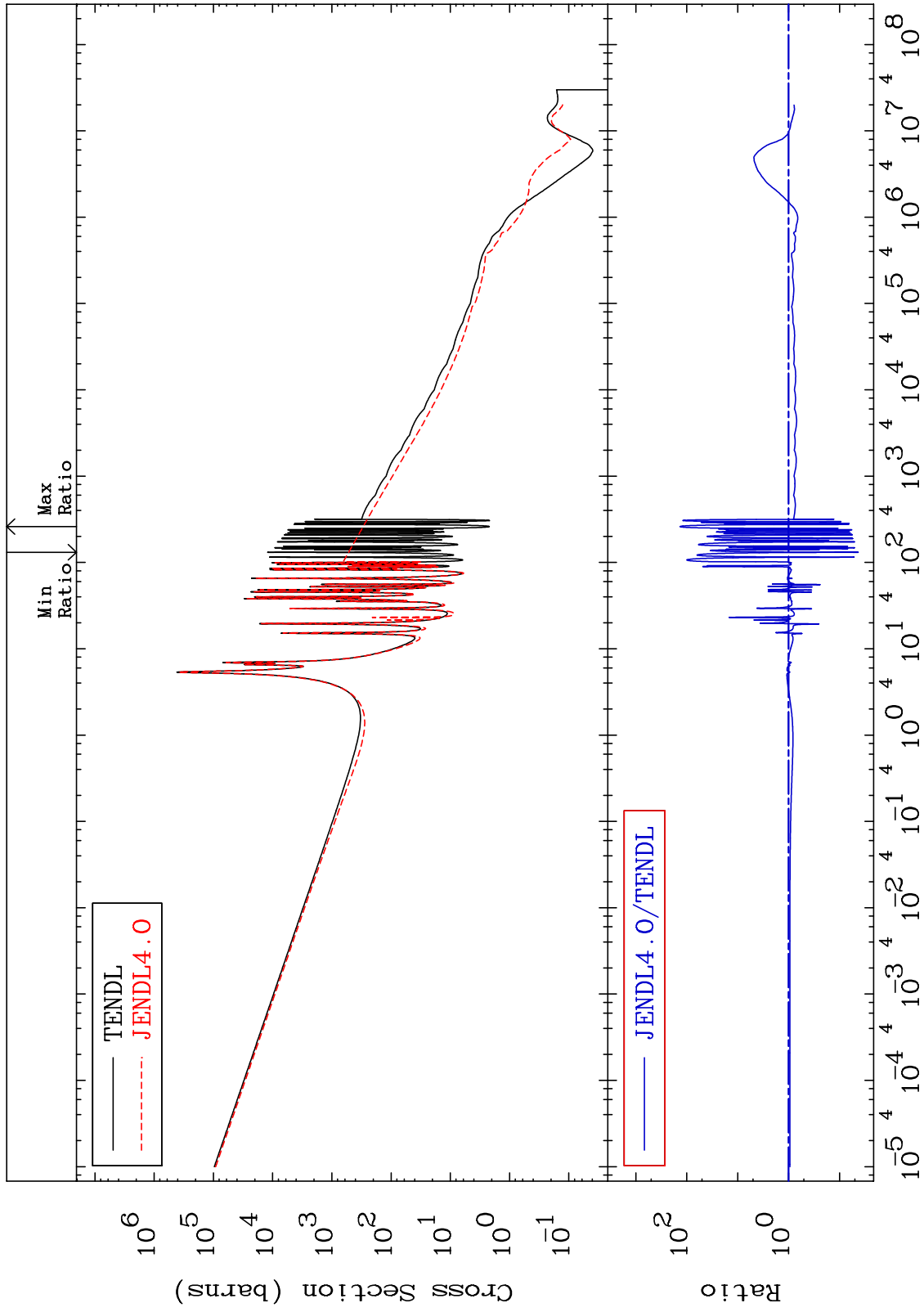
Incident Energy (eV)

61-Pm-147

MAT 6149

Kerma capture (mt102)  
Cross Section

61-Pm-147  
-95.74 To 9999. %



46

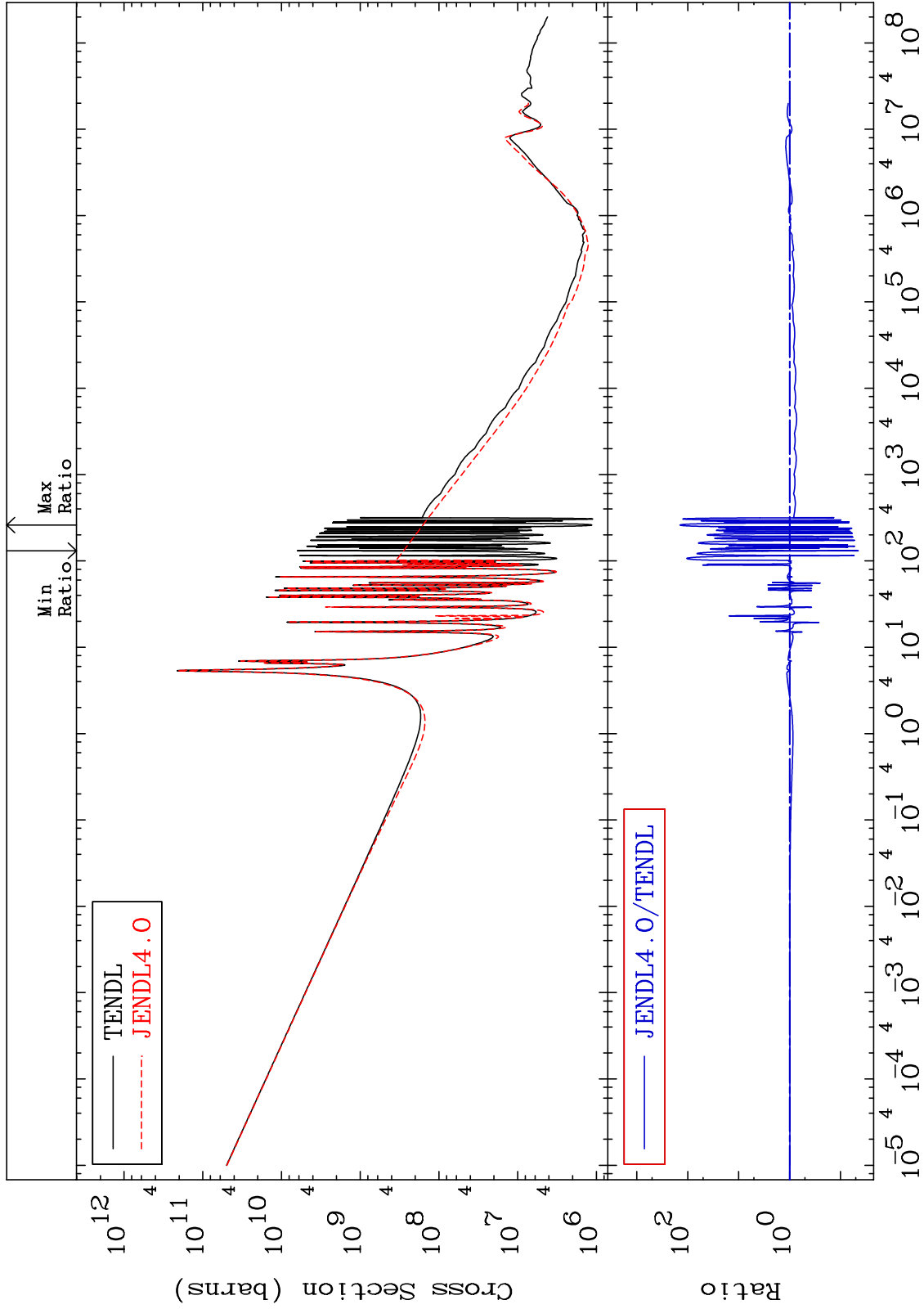
Incident Energy (eV)

61-Pm-147

MAT 6149

Total photon (eV-barns)  
Cross Section

61-Pm-147  
-95.55 To 9999. %





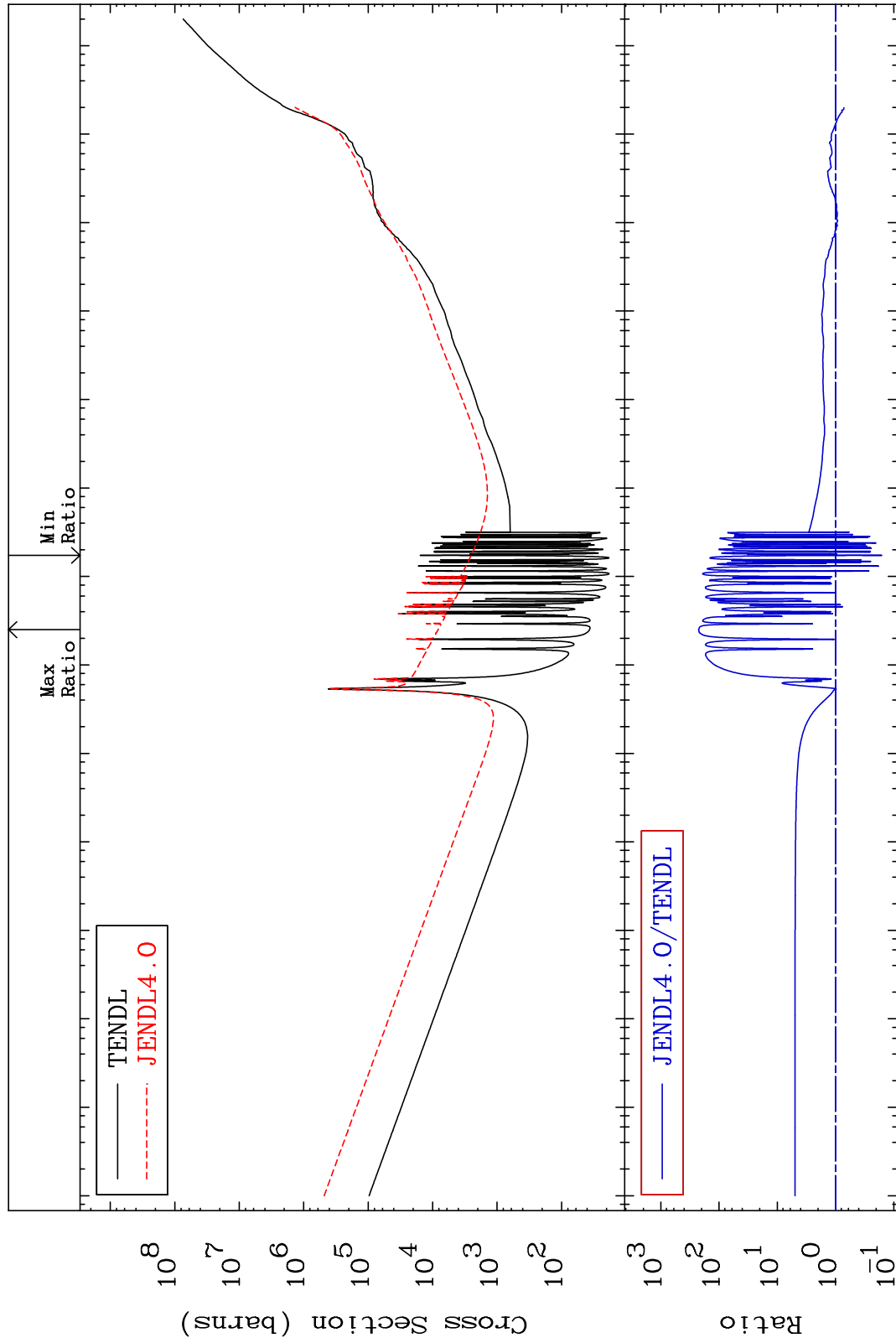
MAT 6149

Total kinematic kerma (high limit)

61-Pm-147

-83.80 To 9999. %

Cross Section



48

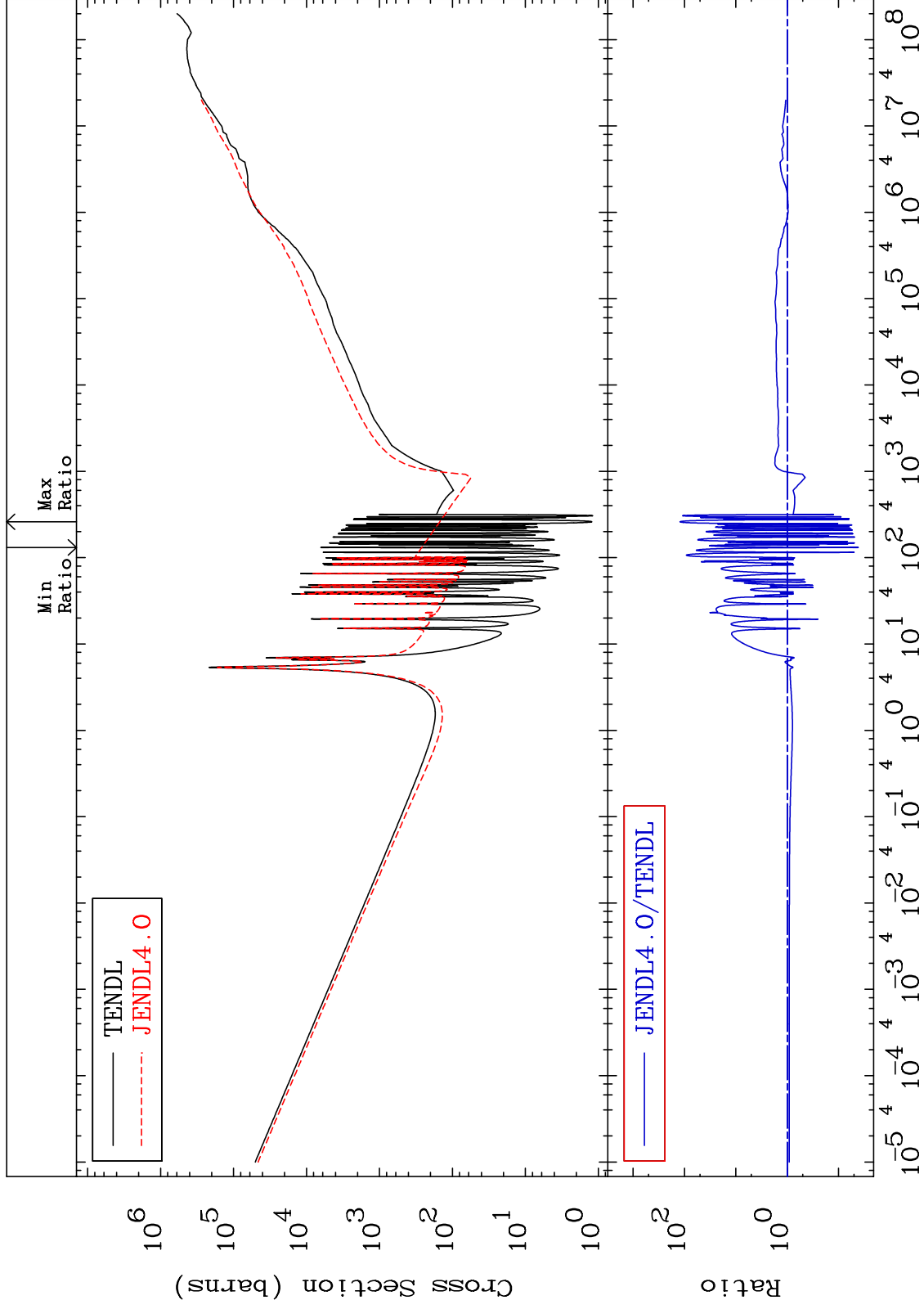
Incident Energy (eV)

61-Pm-147

MAT 6149

Dpa total (eV-barns)  
Cross Section

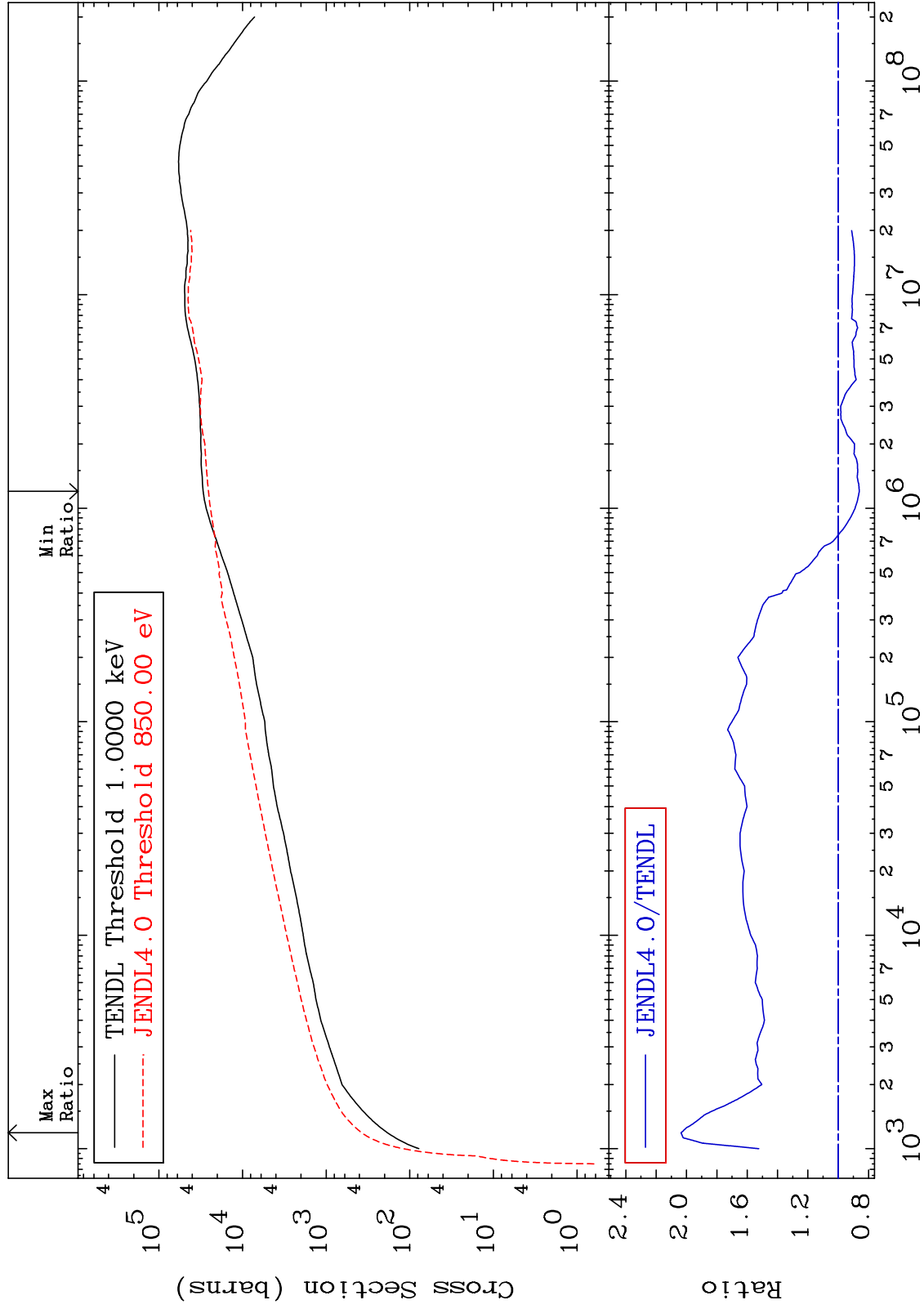
61-Pm-147  
-95.89 To 9999. %



MAT 6149

Dpa elastic (mt2)  
Cross Section

61-Pm-147  
-13.86 To 103.6 %



50

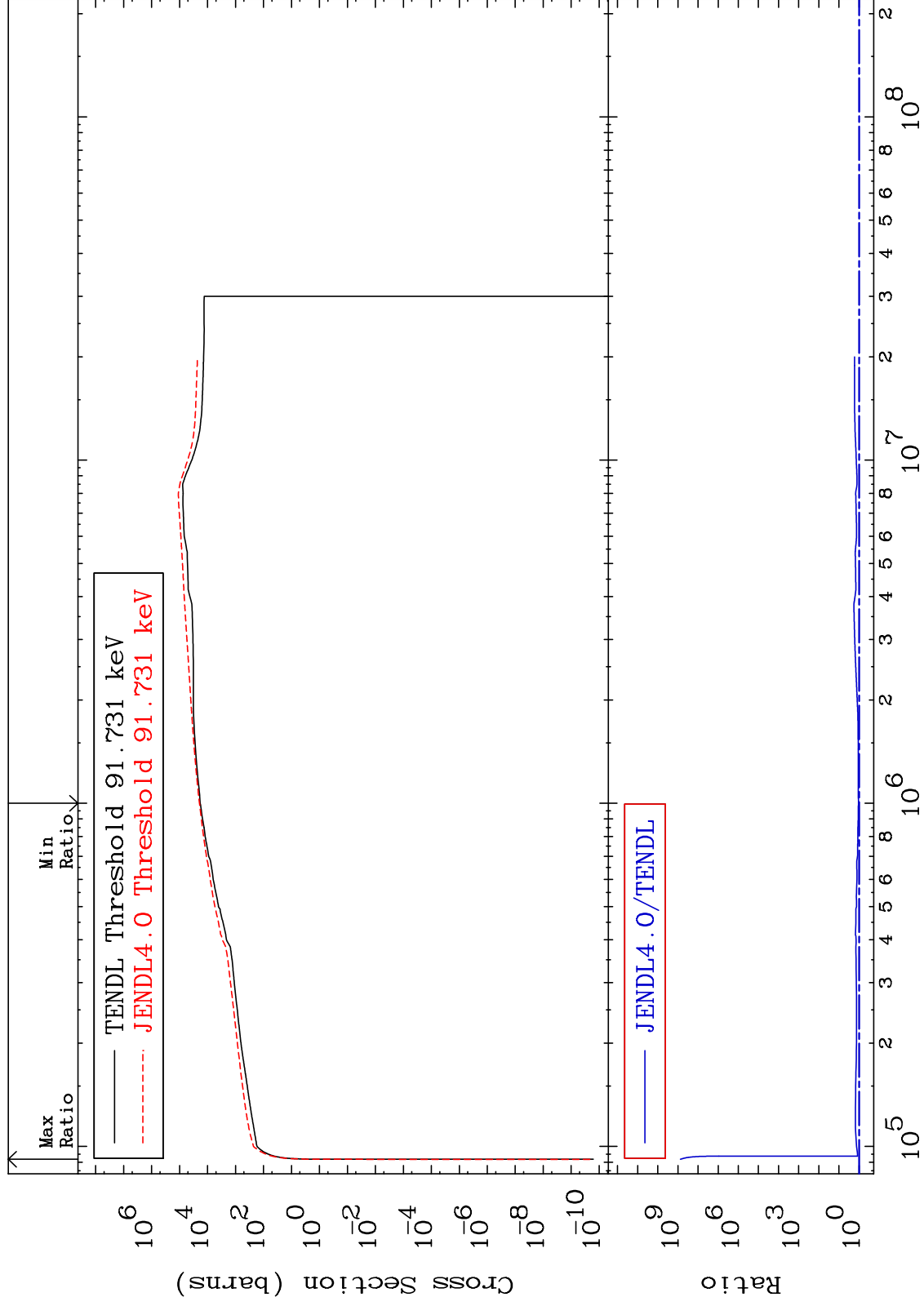
Incident Energy (eV)

61-Pm-147

MAT 6149

Dpa inelastic (mt51-91)  
Cross Section

61-Pm-147  
6.396 To 9999. %



51

61-Pm-147

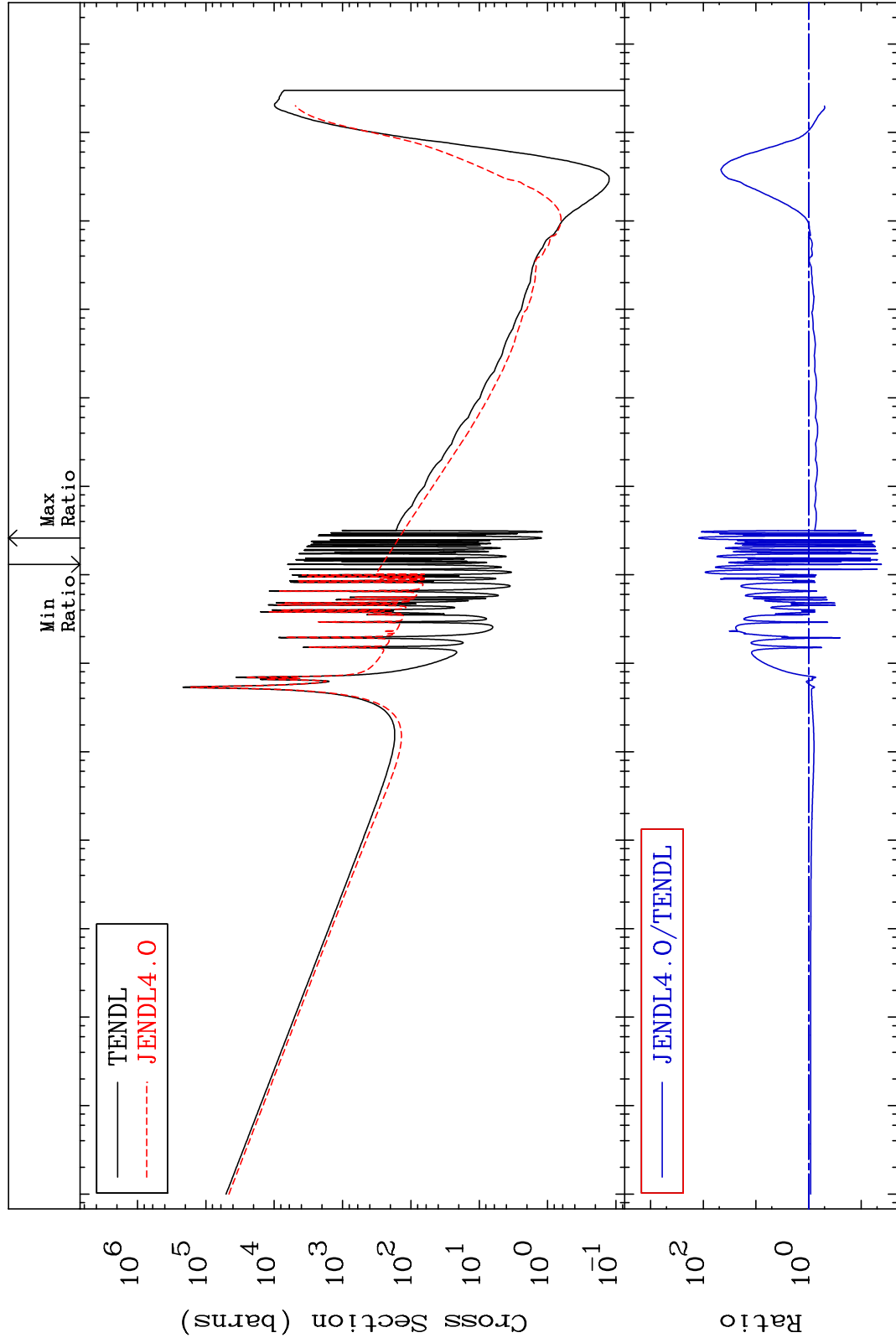
MAT 6149

Dpa disappearance (mt102 -120)

61-Pm-147

-95.89 To 9999. %

Cross Section



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>

Incident Energy (eV)

61-Pm-147

52