

Program Complot  
(Version 2018-1)

by

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(Present Contact Information)

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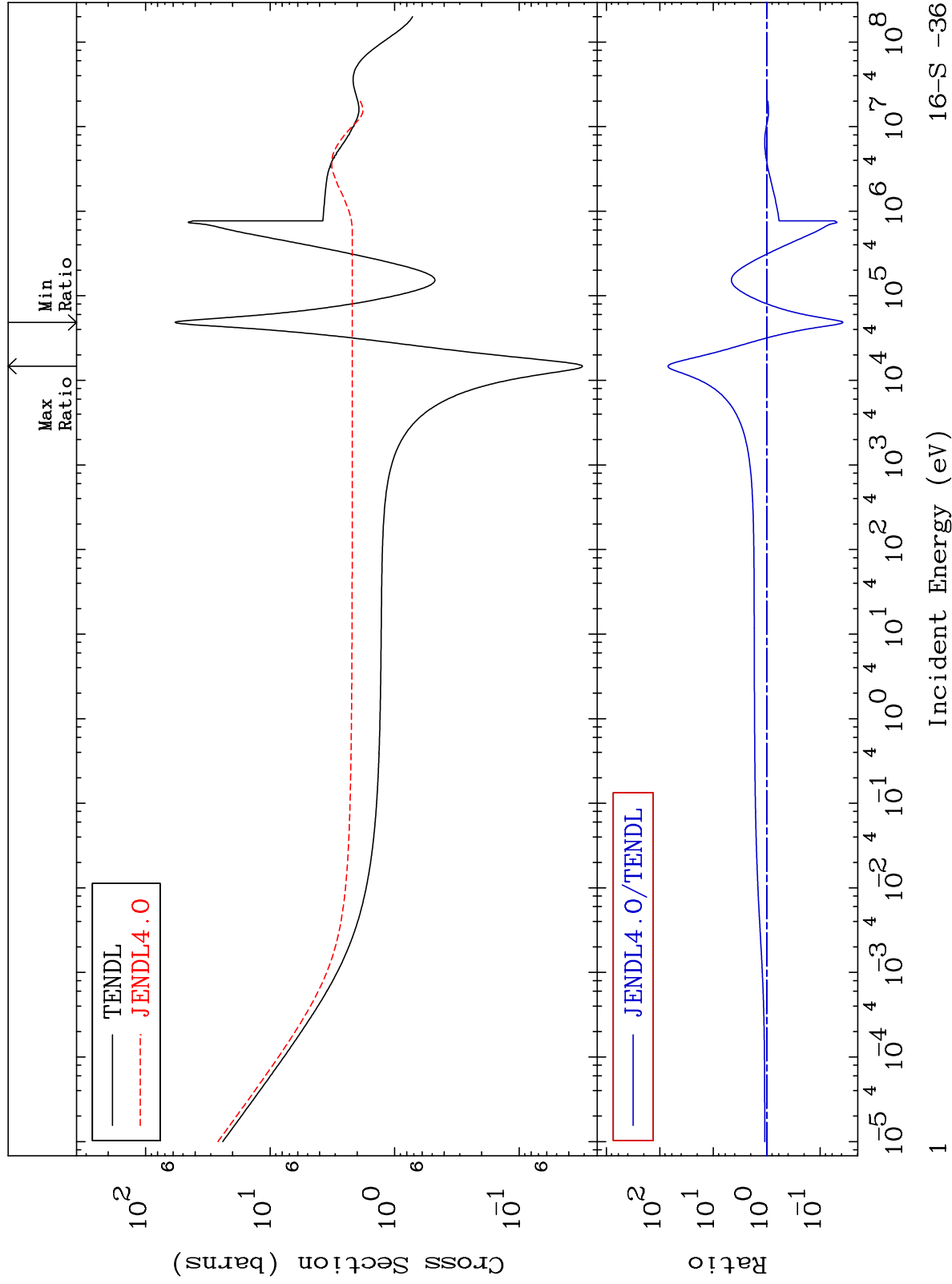
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 1637

Total  
Cross Section

16-S -36  
-96.23 To 6944. %



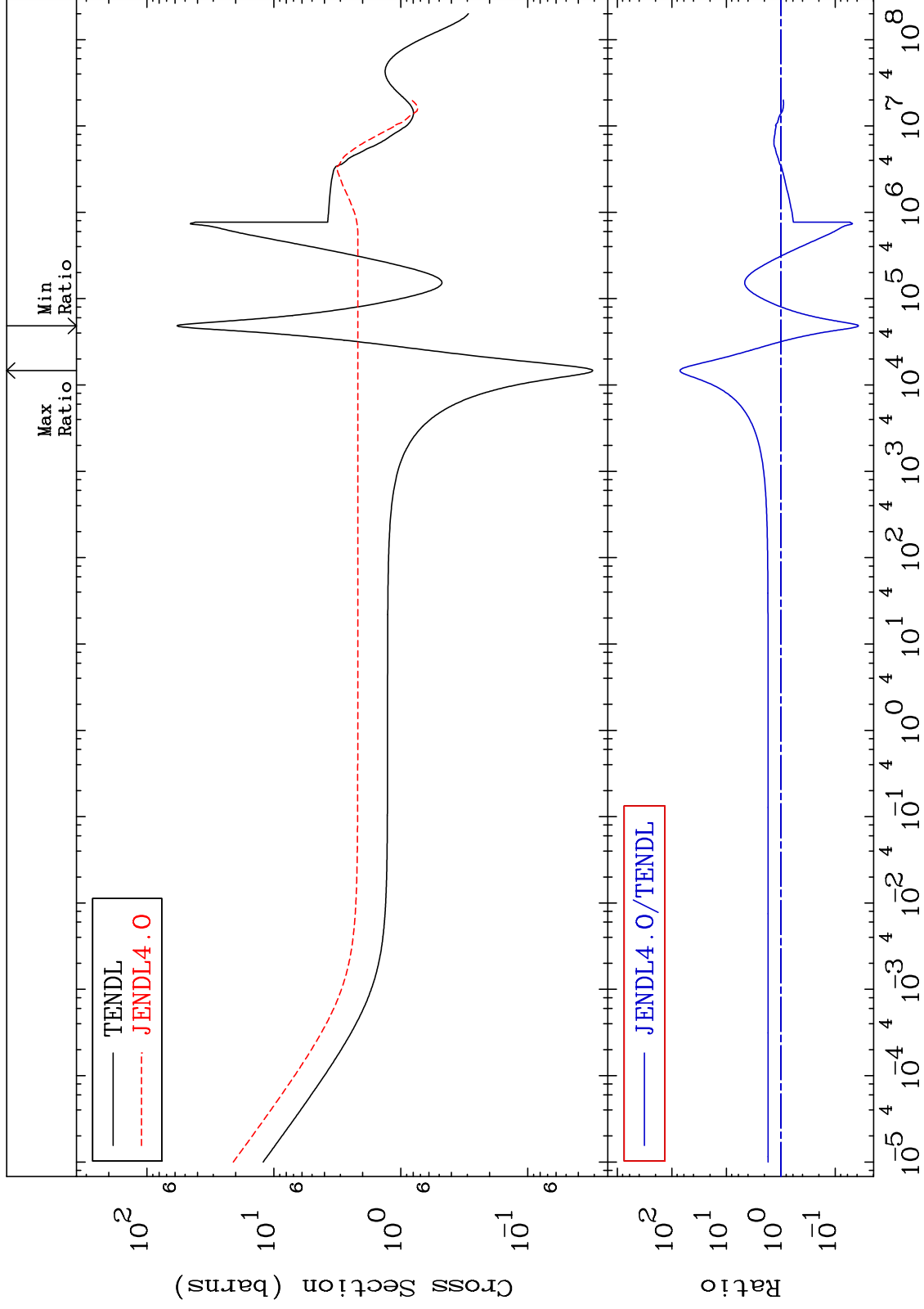
MAT 1637

Elastic

Cross Section

16-S -36

-96.23 To 6985. %



Incident Energy (eV)

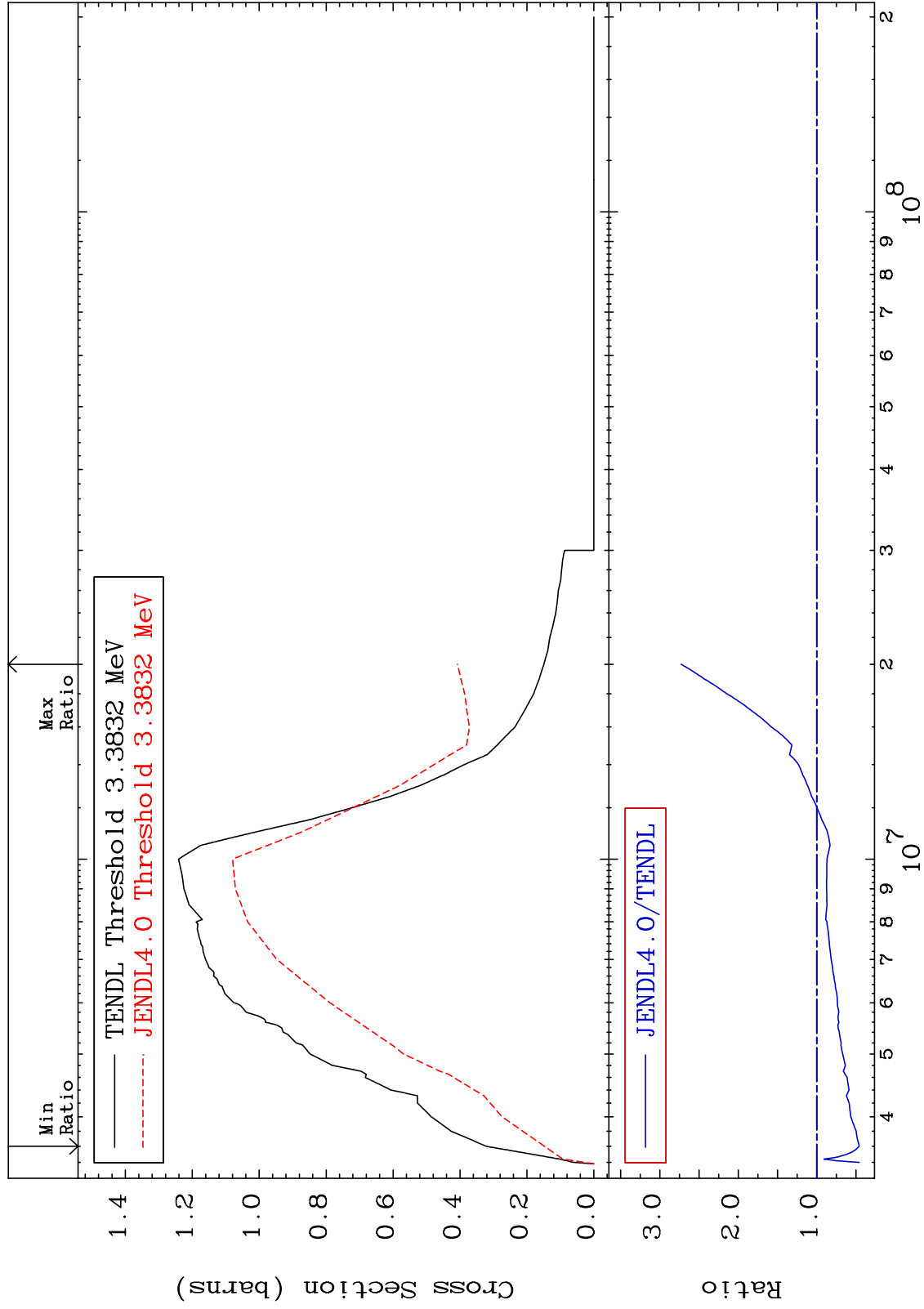
16-S -36

2

MAT 1637

Inelastic  
Cross Section

16-S -36  
-54.20 To 172.9 %



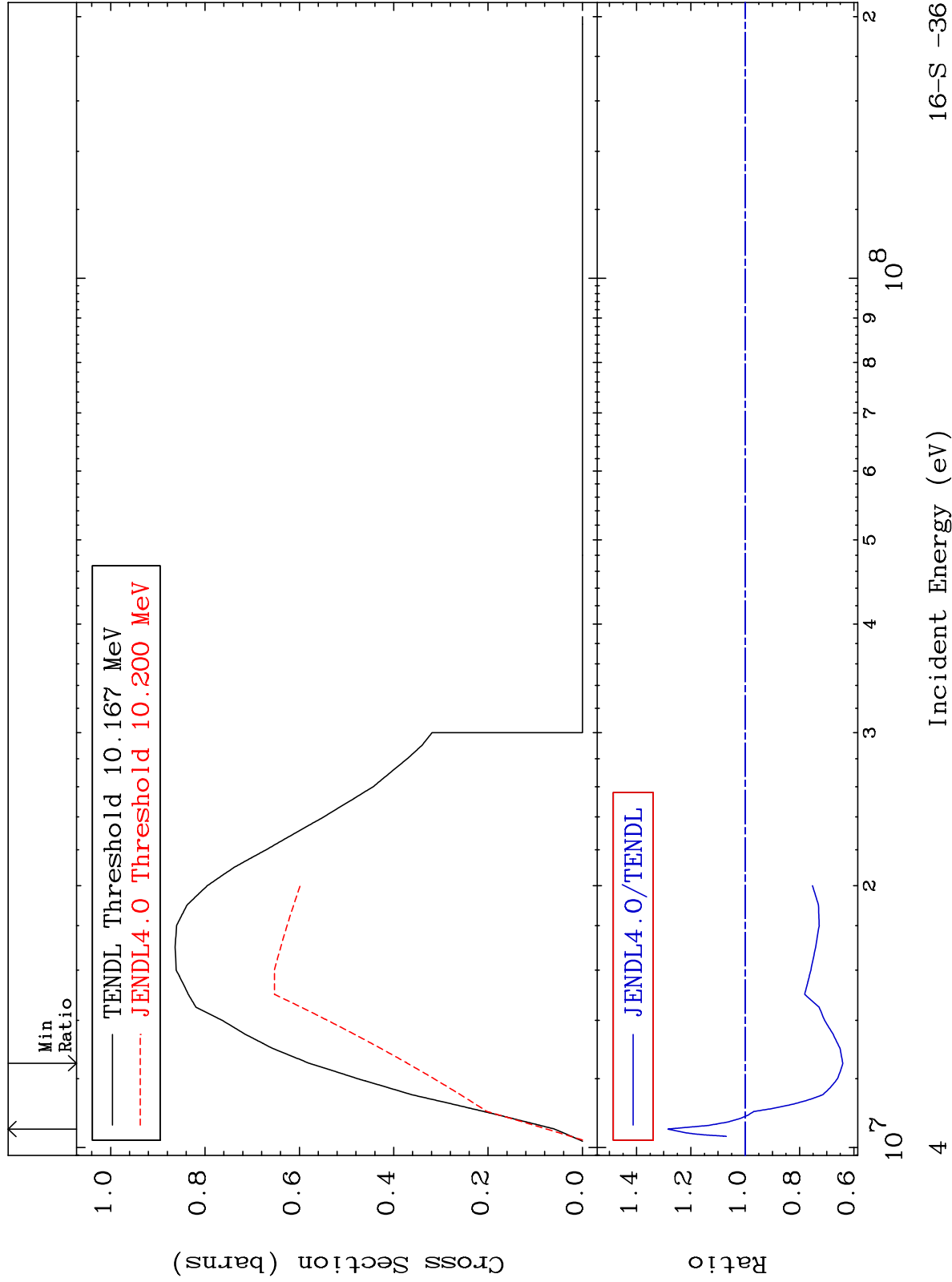
MAT 1637

(n,2n)

16-S -36

Cross Section

-35.93 To 28.42 %



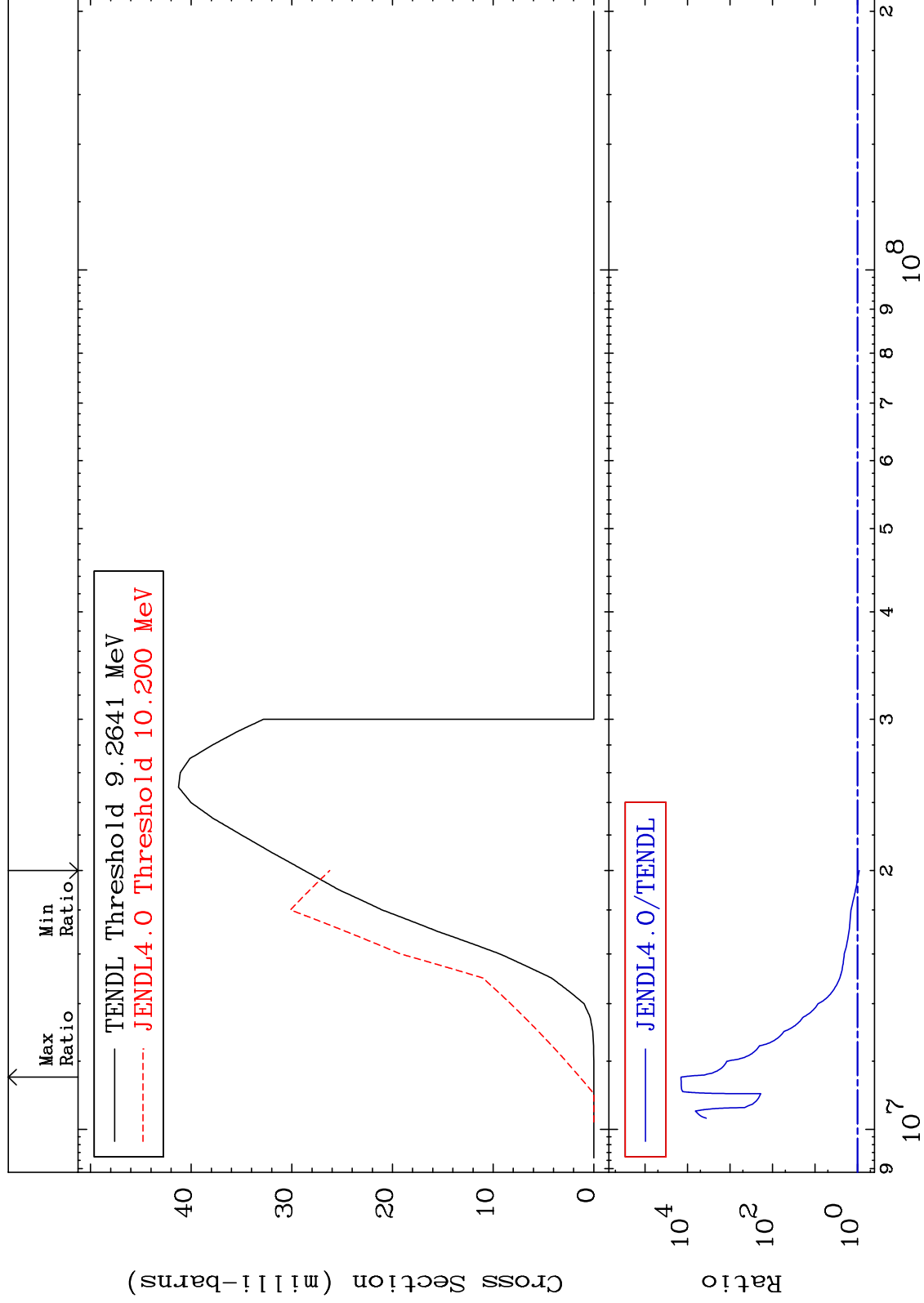
MAT 1637

(n,n')  $\alpha$

16-S -36

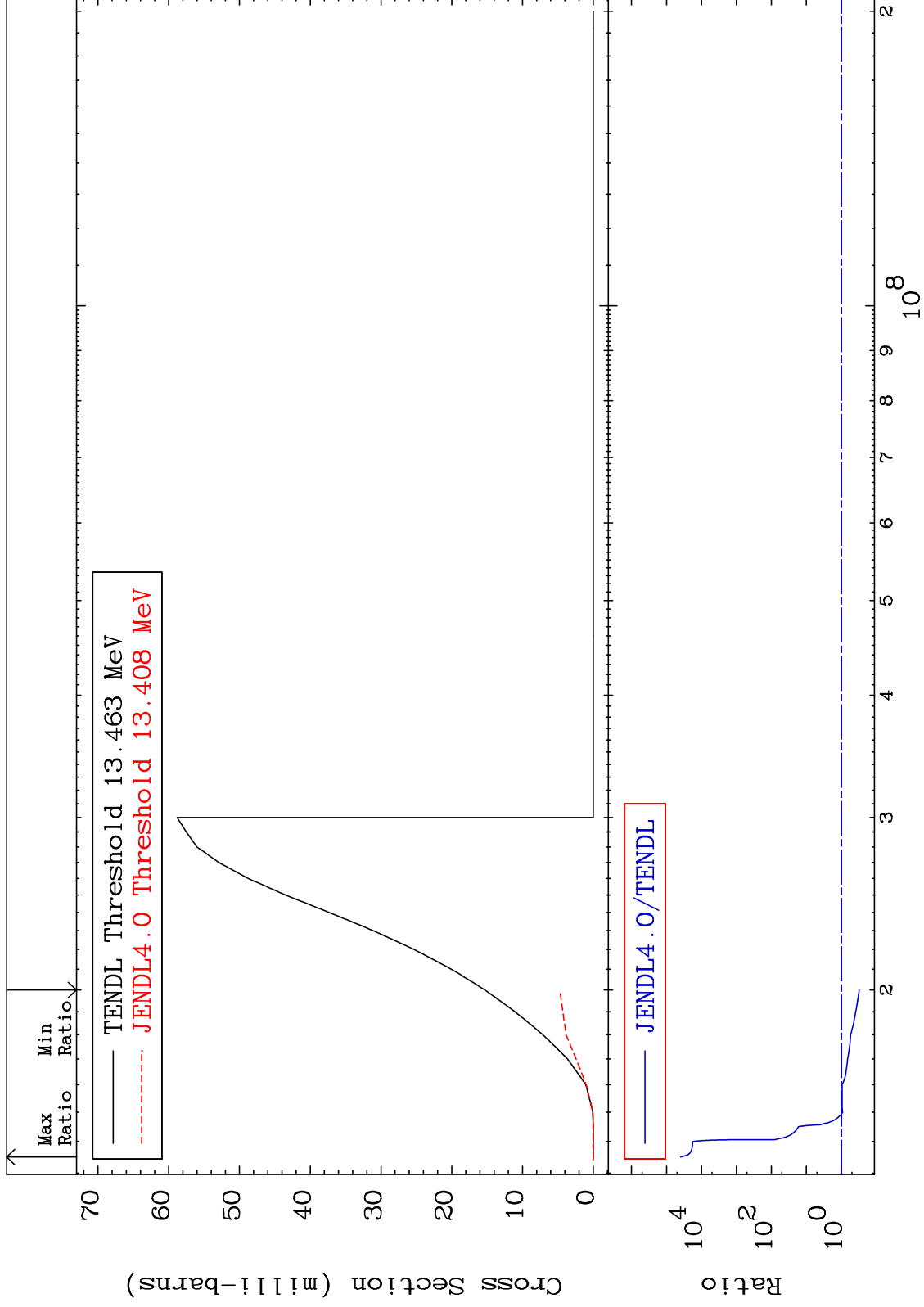
Cross Section

-8.739 To 9999. %



16-S -36

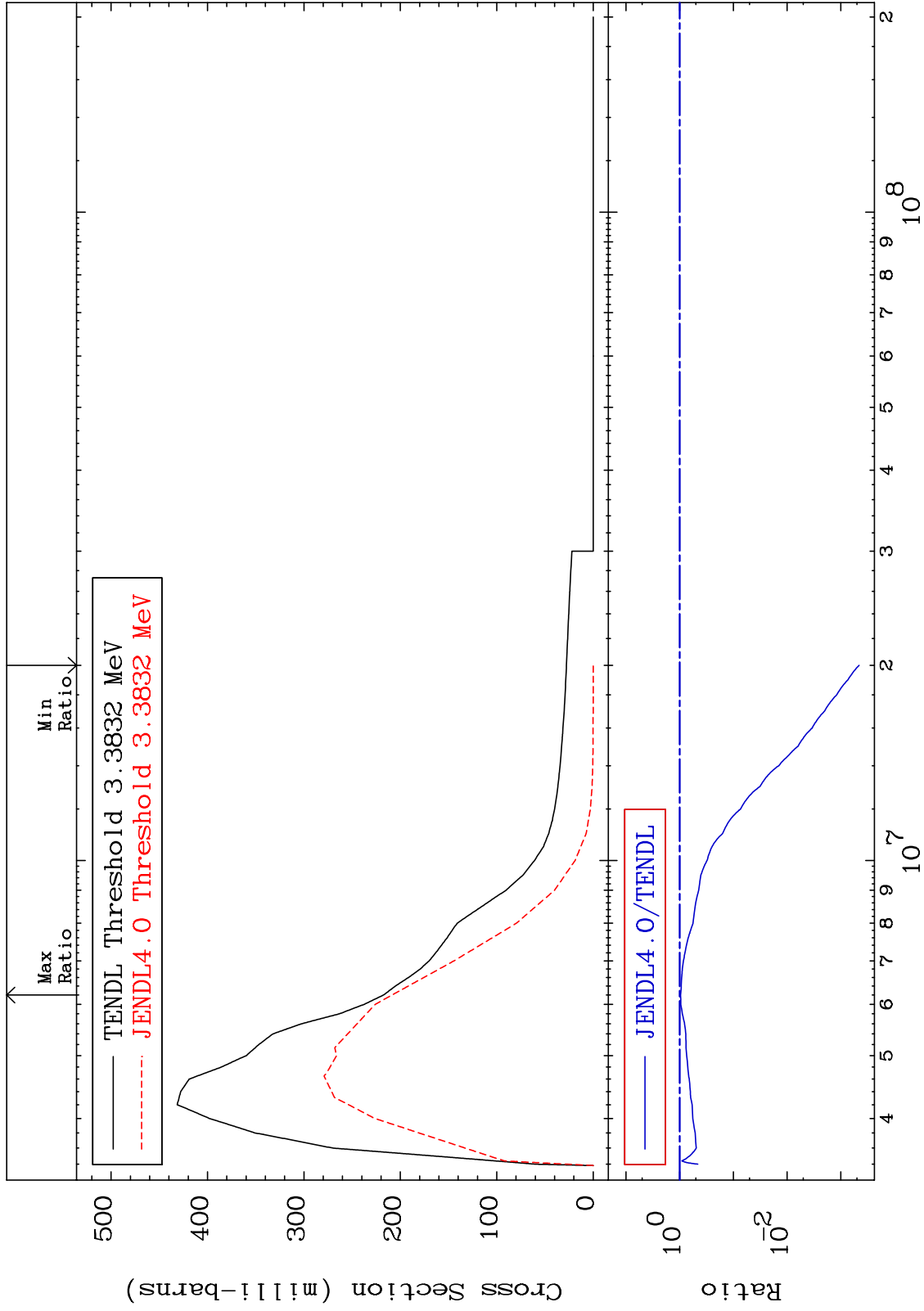
16-S -36



MAT 1637

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

16-S -36  
-99.95 To -4.049%

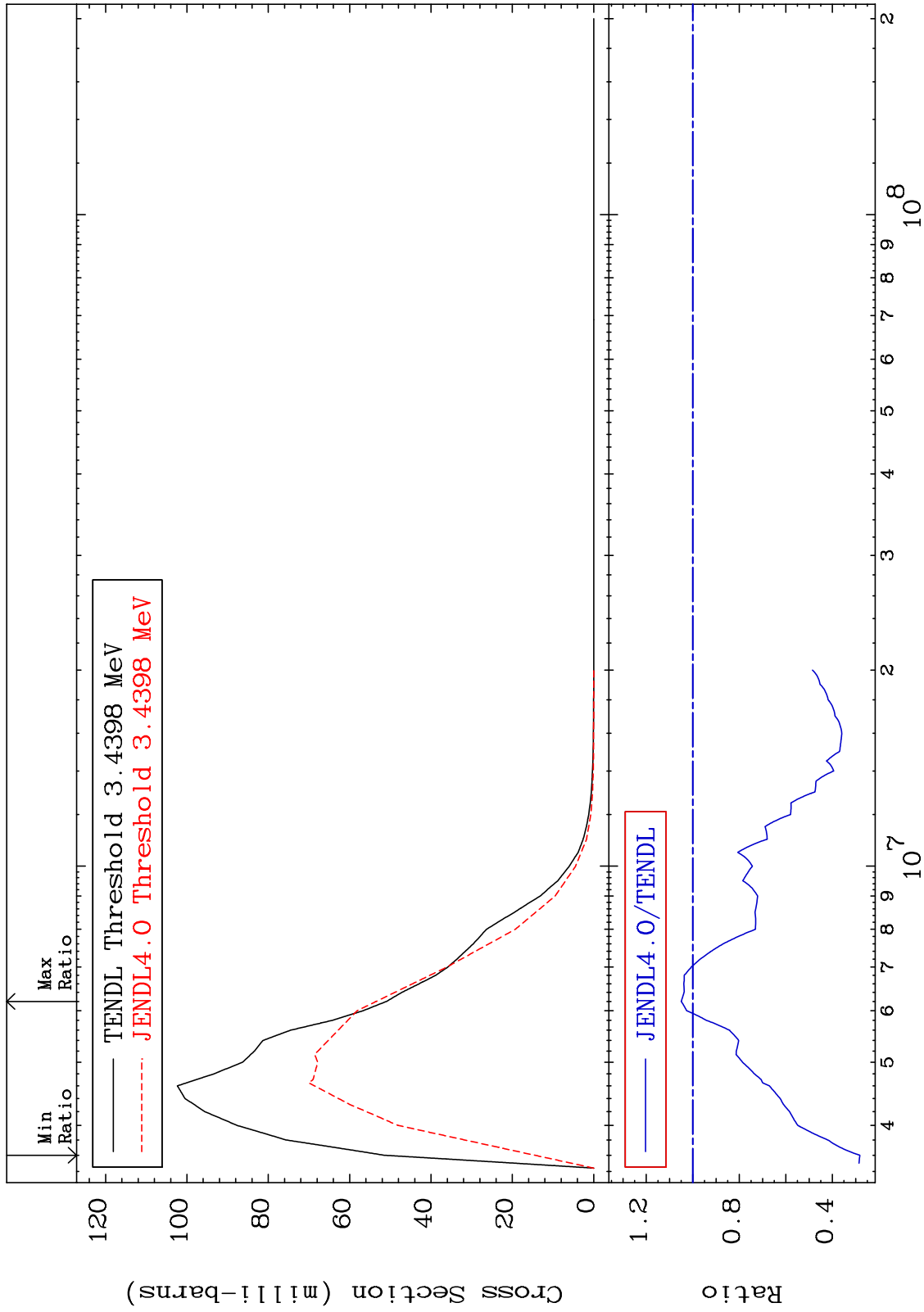




MAT 1637

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

16-S -36  
-71.84 To 4.984 %

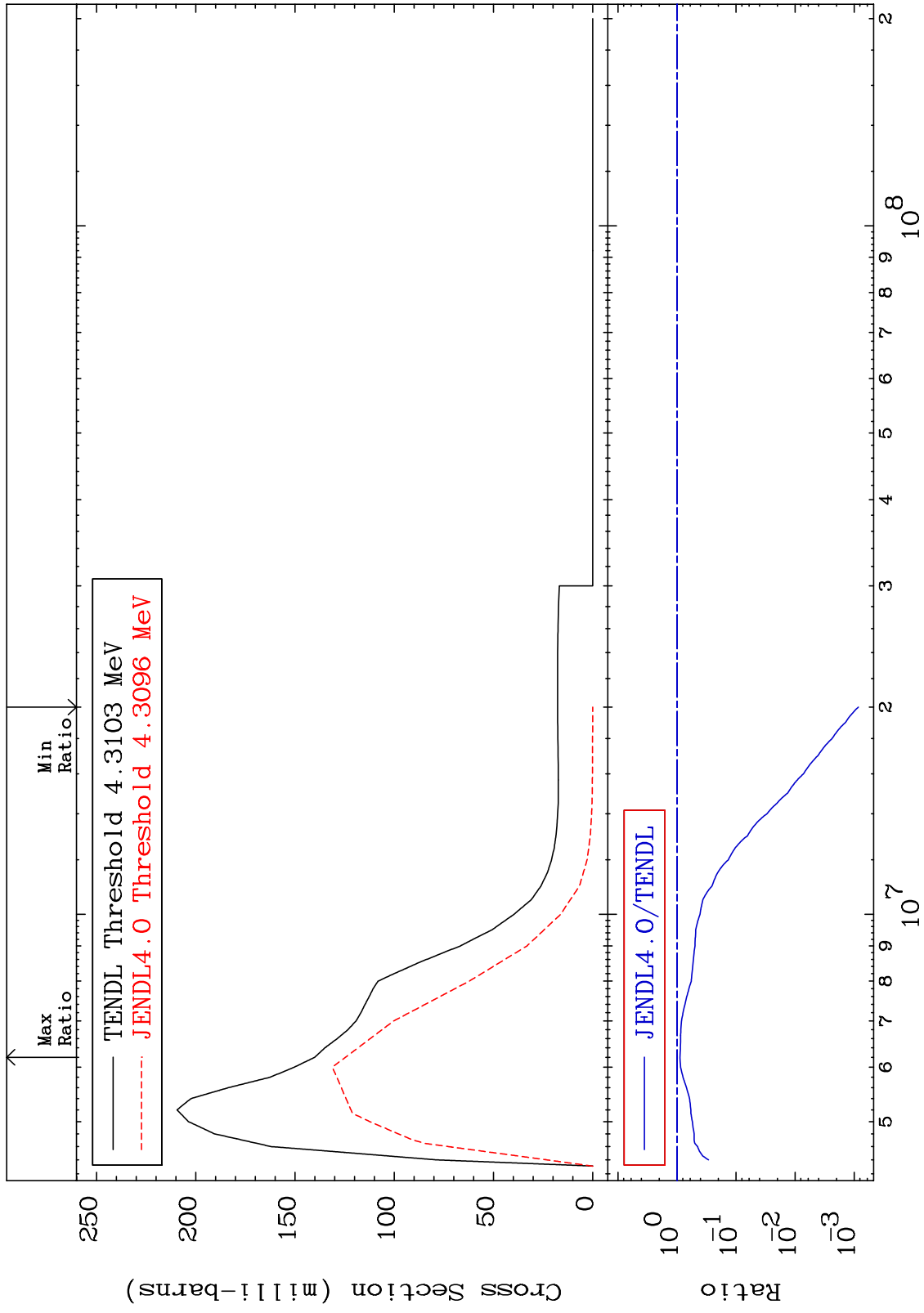


8

Incident Energy (eV)

16-S -36

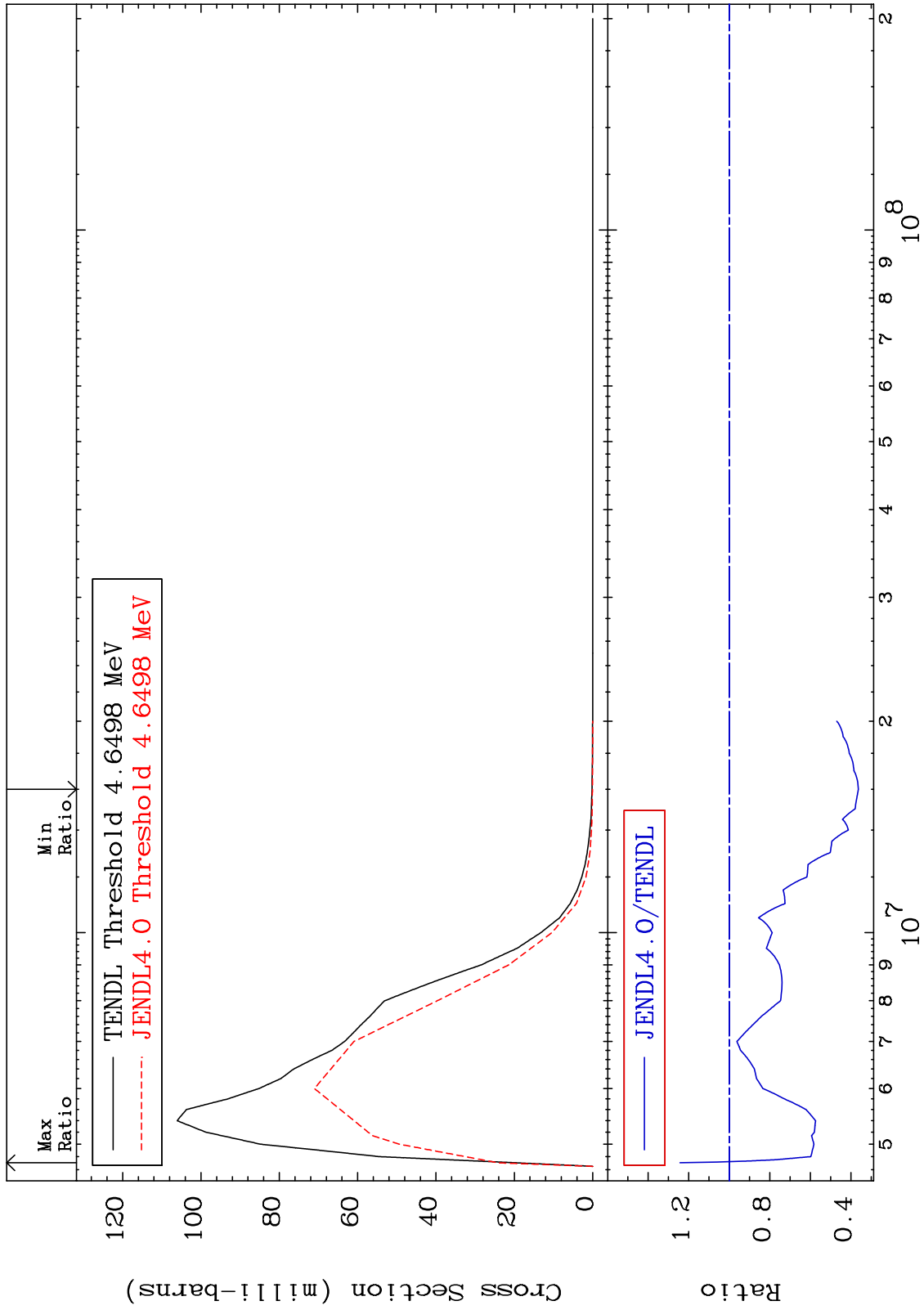
MAT 1637 MT= 53 (n,n') Level Cross Section 16-S -36  
 -99.92 To -11.04%



MAT 1637

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

16-S -36  
-63.70 To 24.25 %



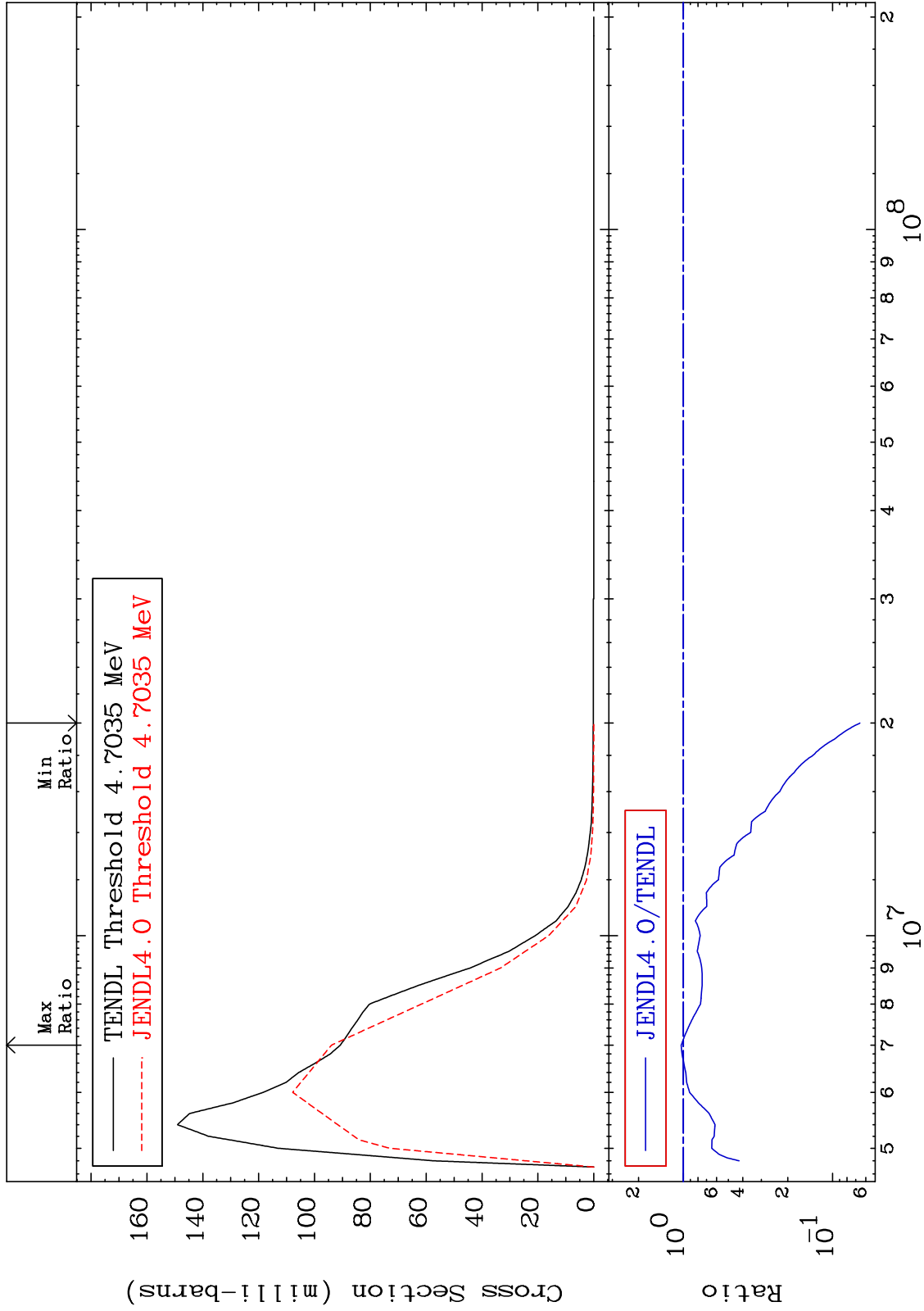
10

16-S -36

MAT 1637

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

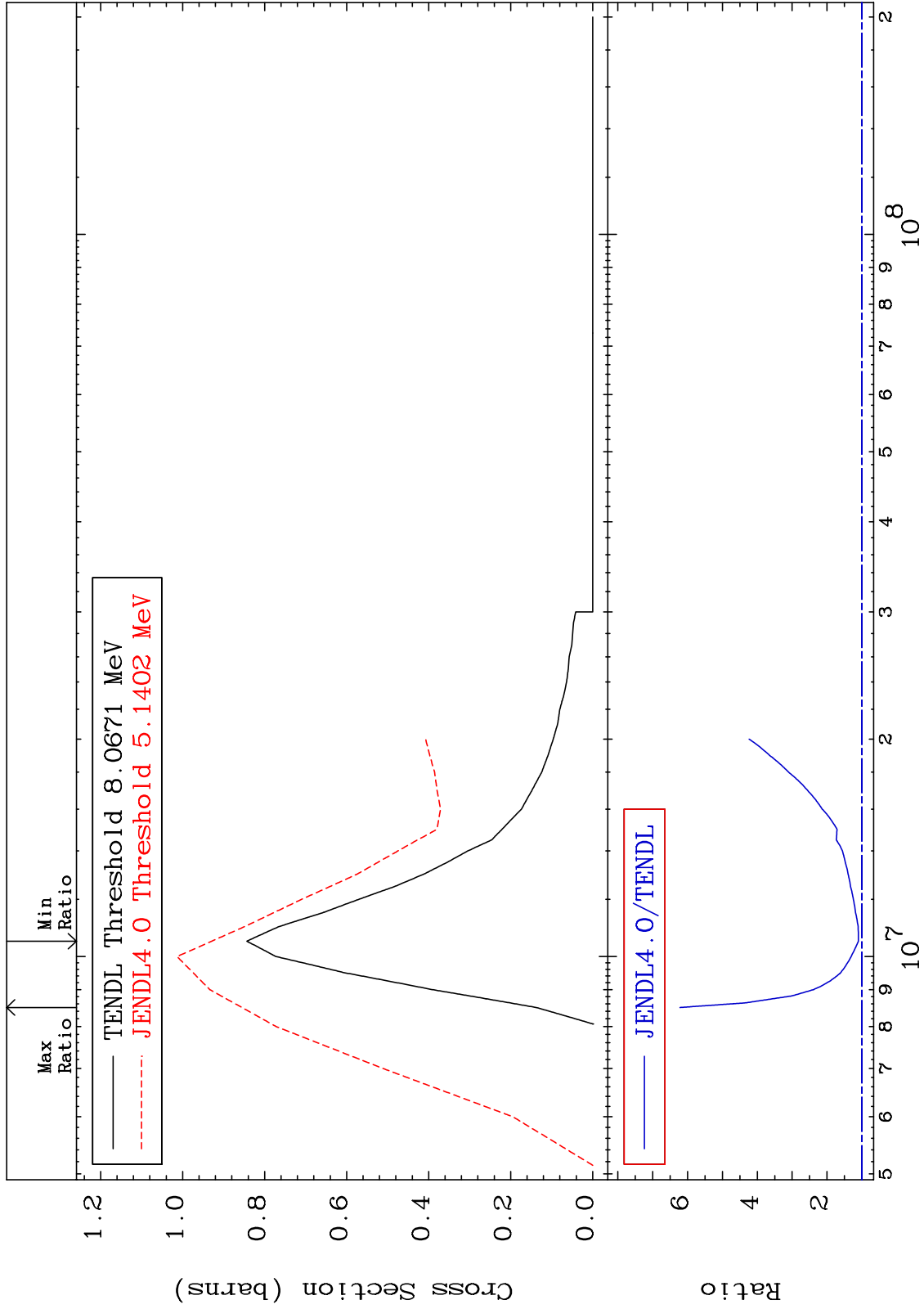
16-S -36  
-93.44 To 3.451 %



MAT 1637

(n,n') Continuum  
Cross Section

16-S -36  
10.16 To 521.4 %



12

16-S -36

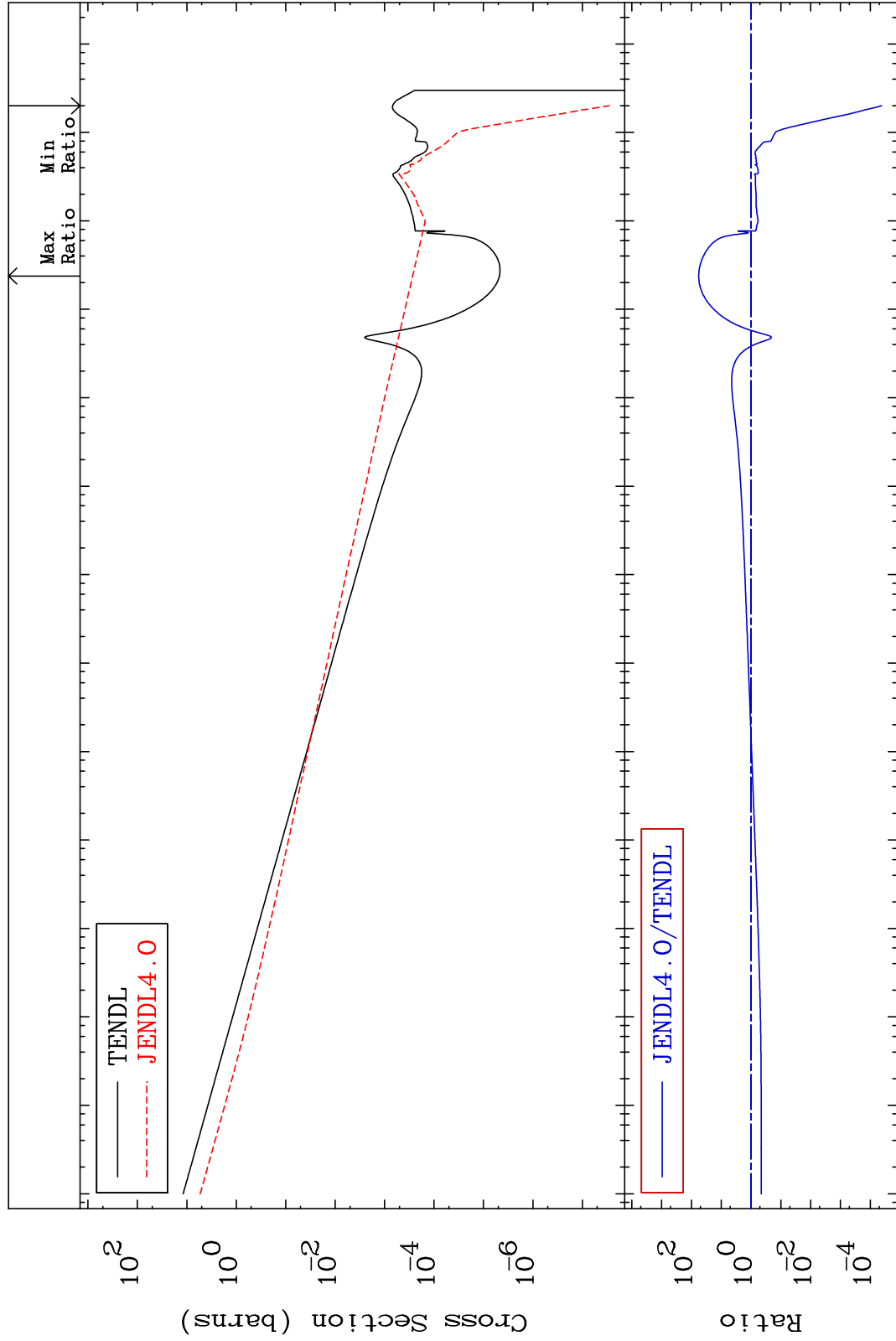
MAT 1637

(n,  $\gamma$ )

16-S -36

Cross Section

-100.0 To 5587. %



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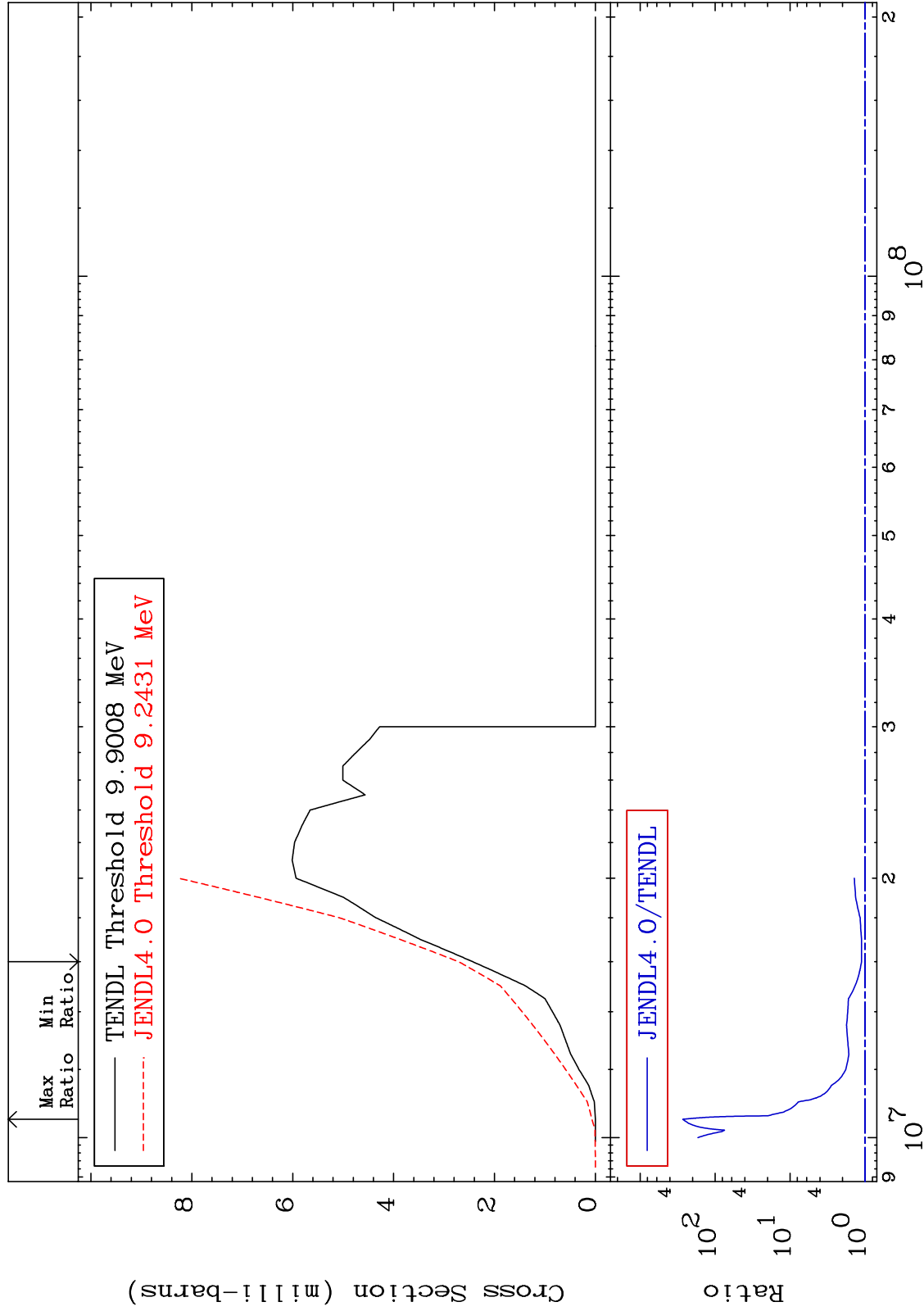
MAT 1637

(n,p)

16-S -36

Cross Section

11.47 To 9999. %



14

Incident Energy (eV)

16-S -36

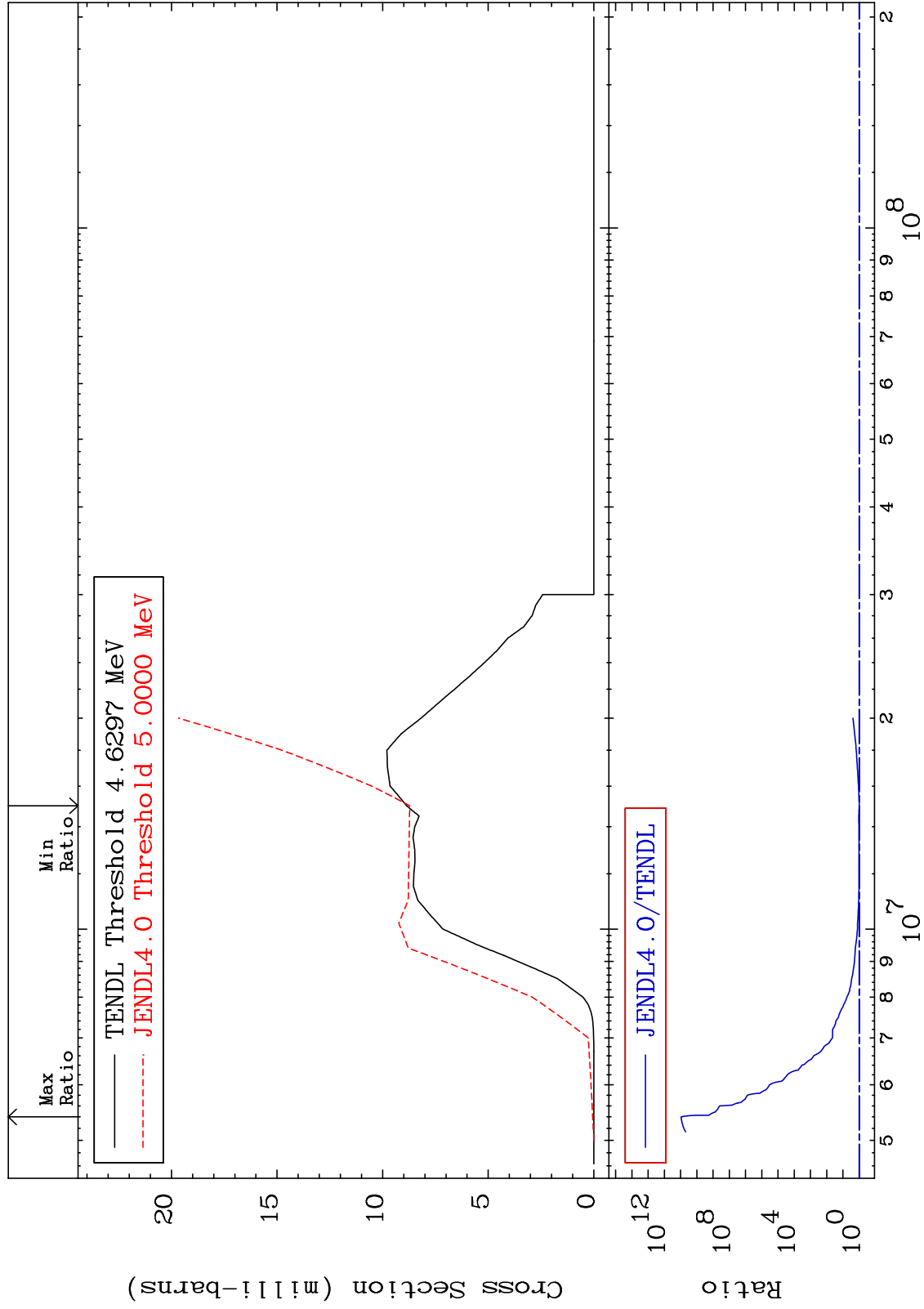
MAT 1637

(n,  $\alpha$ )

16-S -36

Cross Section

-1.631 To 9999. %



15

Incident Energy (eV)

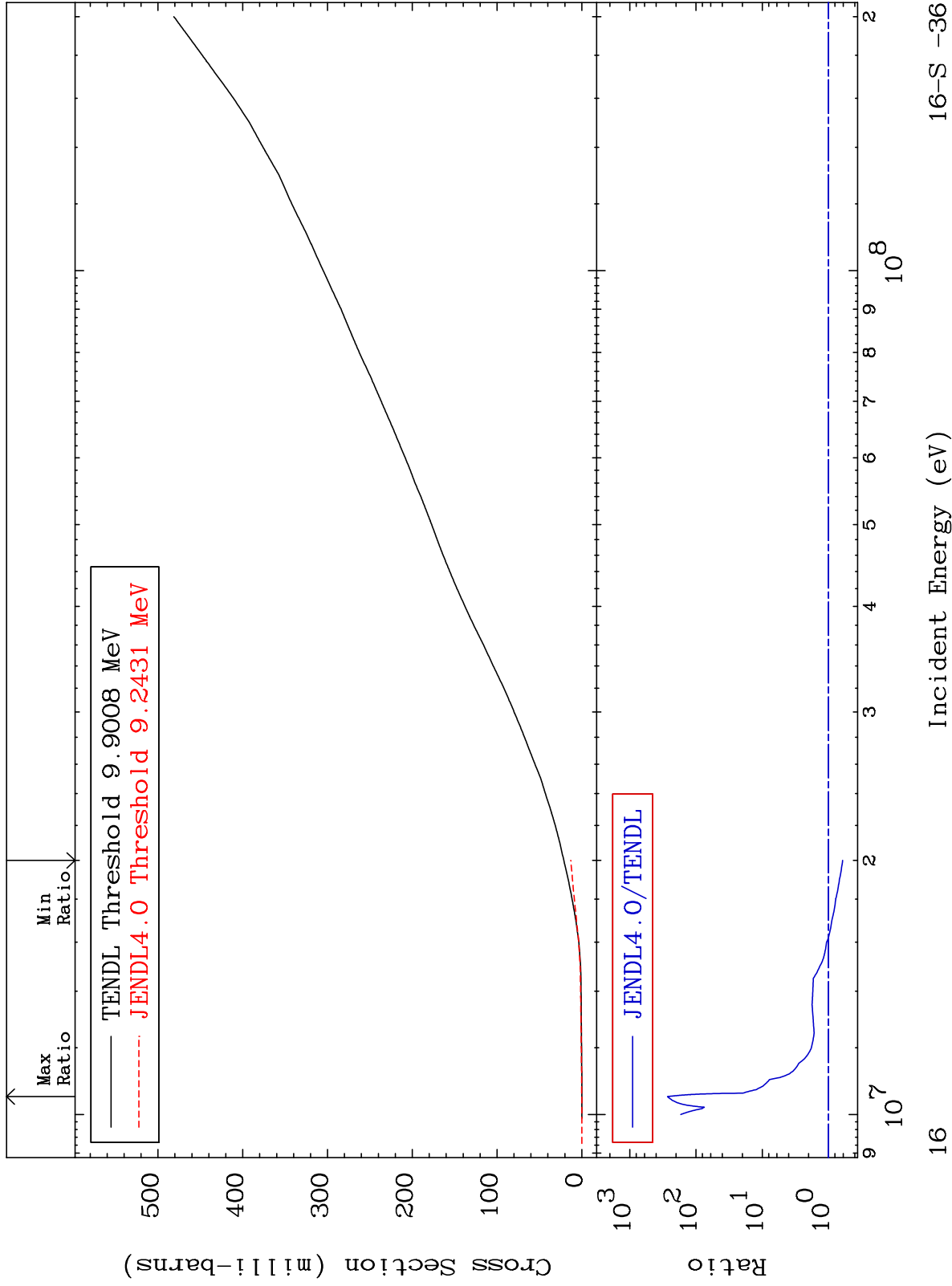
16-S -36



MAT 1637

### Hydrogen Production Cross Section

16-S -36  
-38.88 To 9999. %



16-S -36

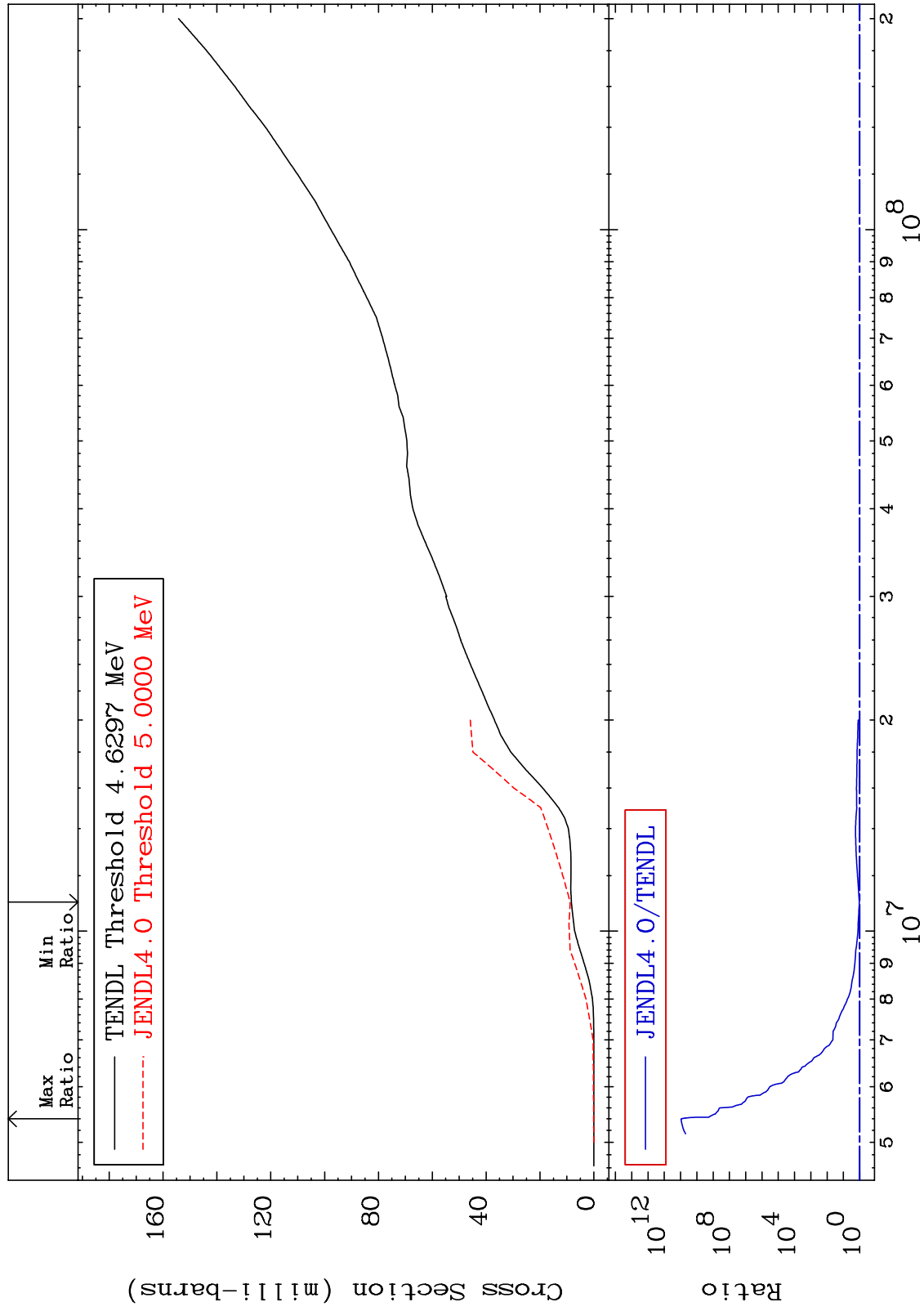
Incident Energy (eV)

16

MAT 1637

He-4 Production  
Cross Section

16-S -36  
5.426 To 9999. %



17

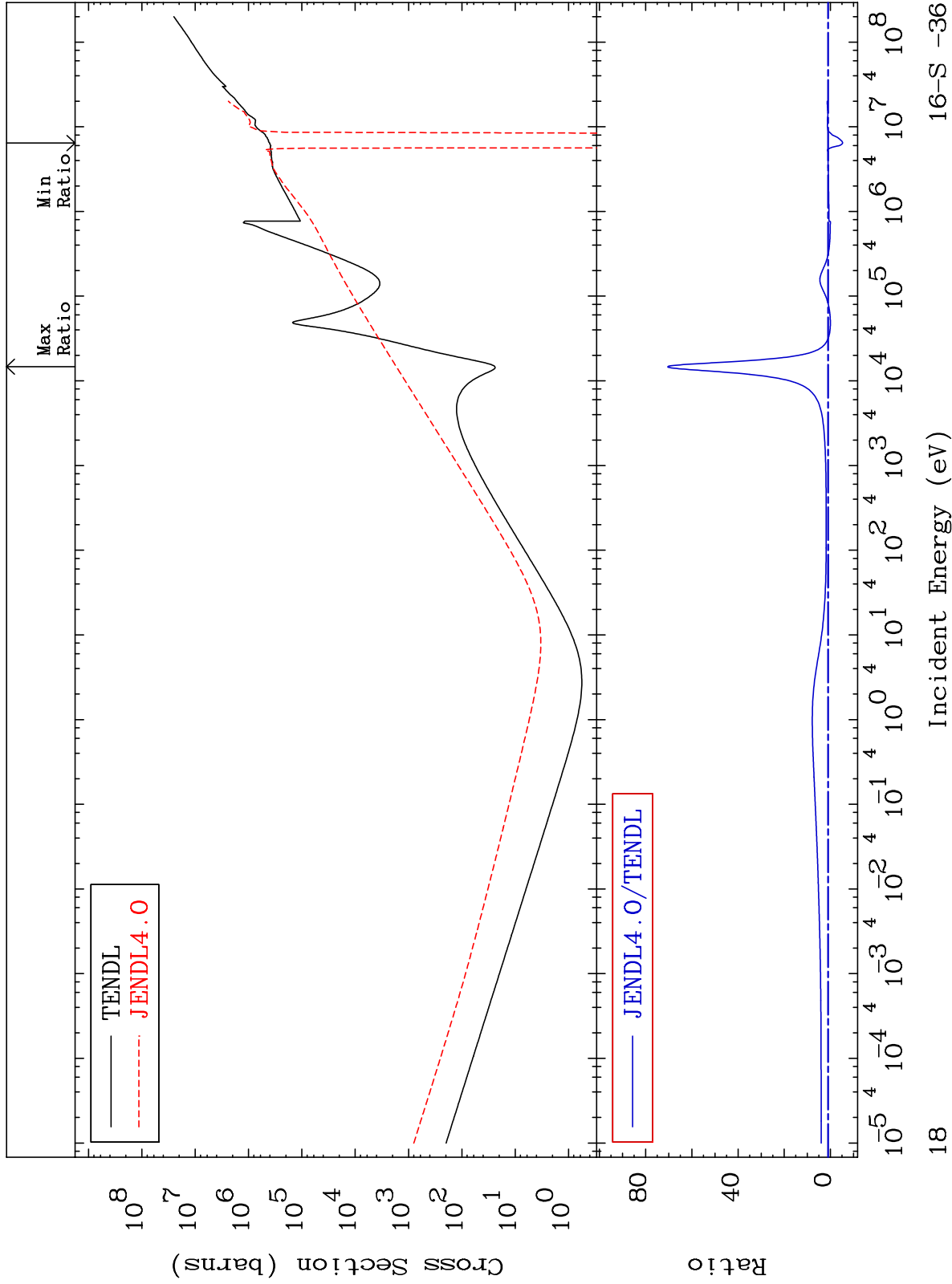
Incident Energy (eV)

16-S -36

MAT 1637

Kerma total (eV-barns)  
Cross Section

16-S -36  
-628.6 To 6953. %



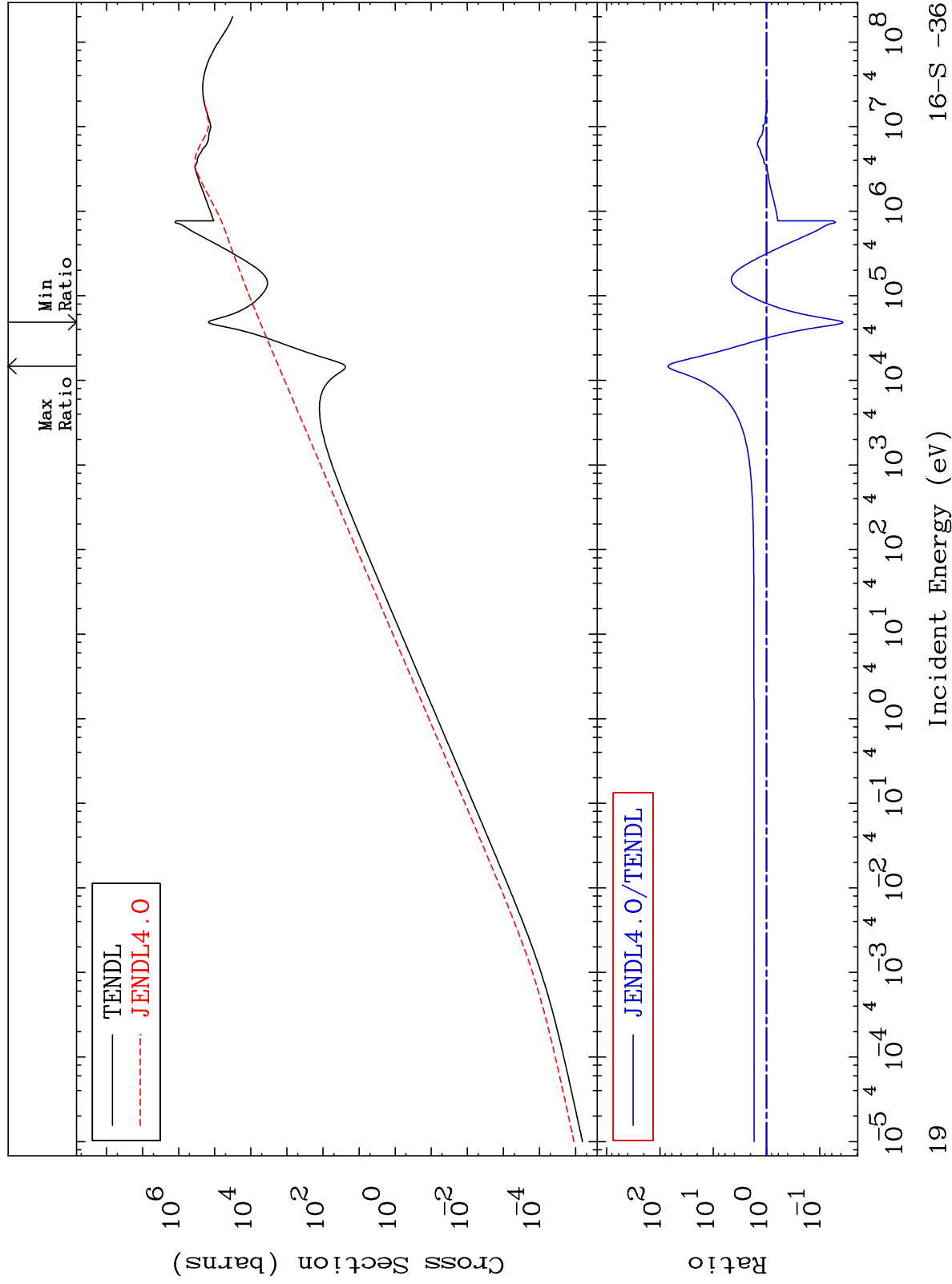
18

16-S -36

MAT 1637

Kerma elastic  
Cross Section

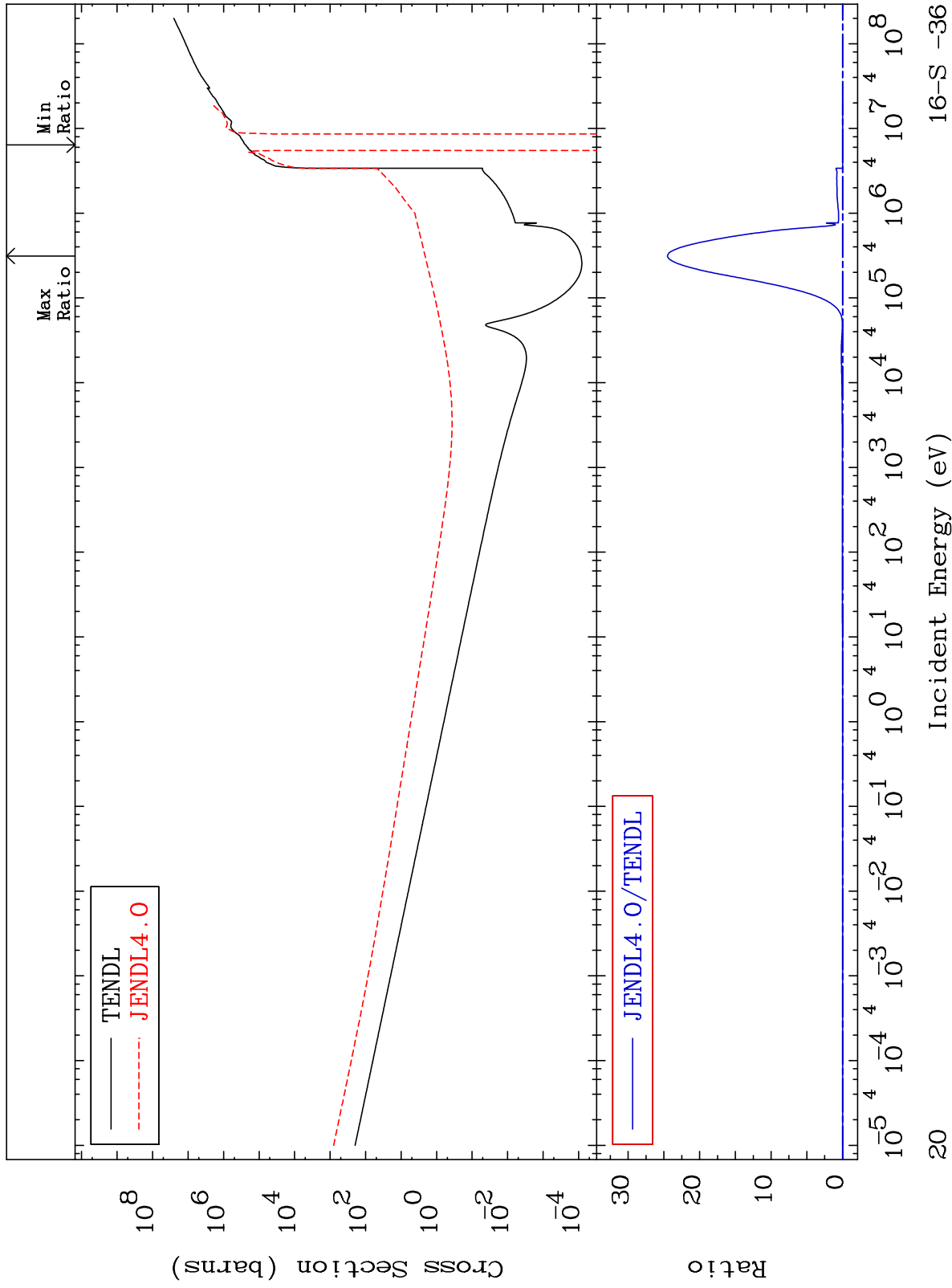
16-S -36  
-96.31 To 6952. %



MAT 1637

Kerma non-elastic (all but mt2)  
Cross Section

16-S -36  
-1087. To 9999. %



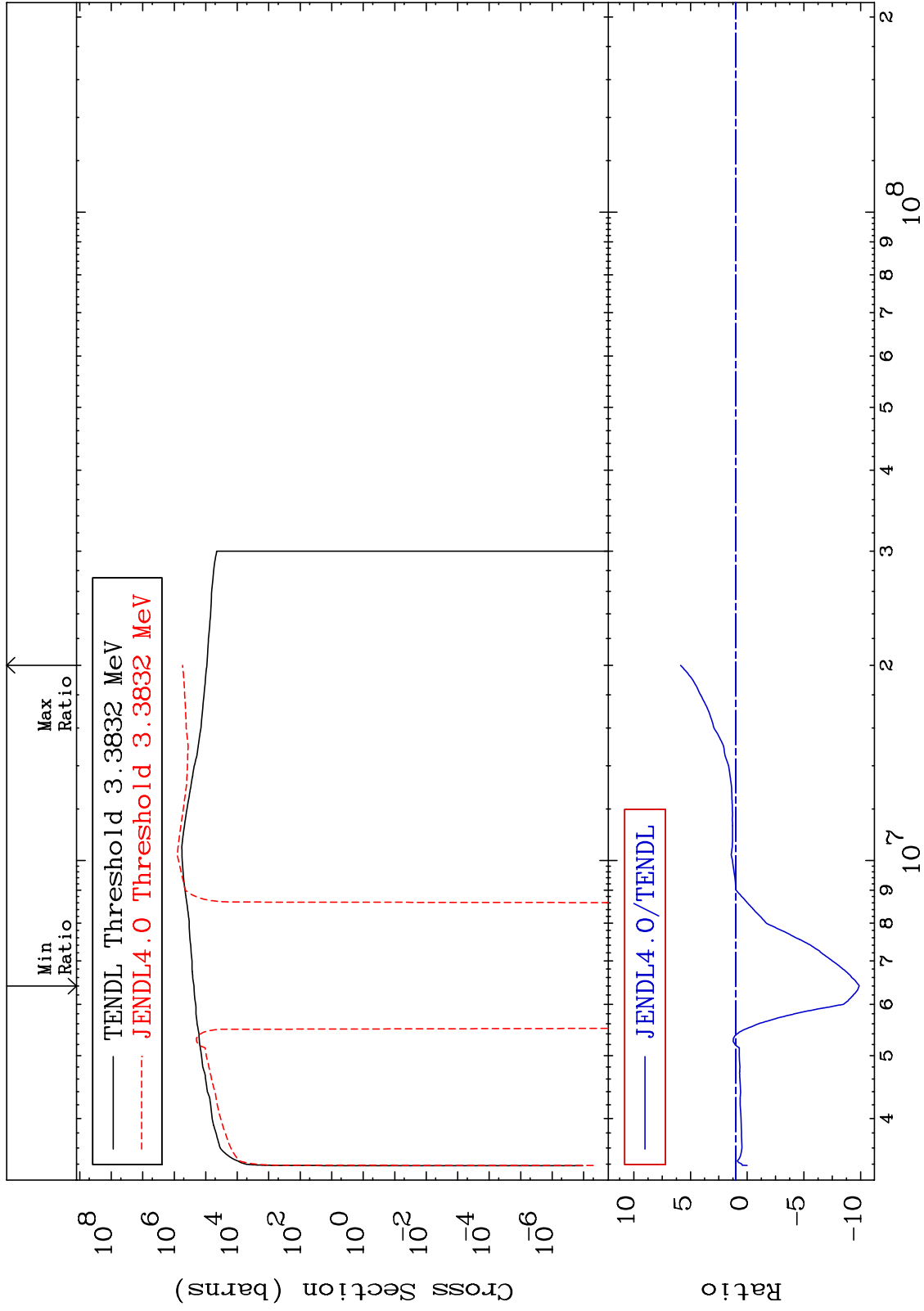
20

16-S -36

MAT 1637

Kerma inelastic (mt51-91)  
Cross Section

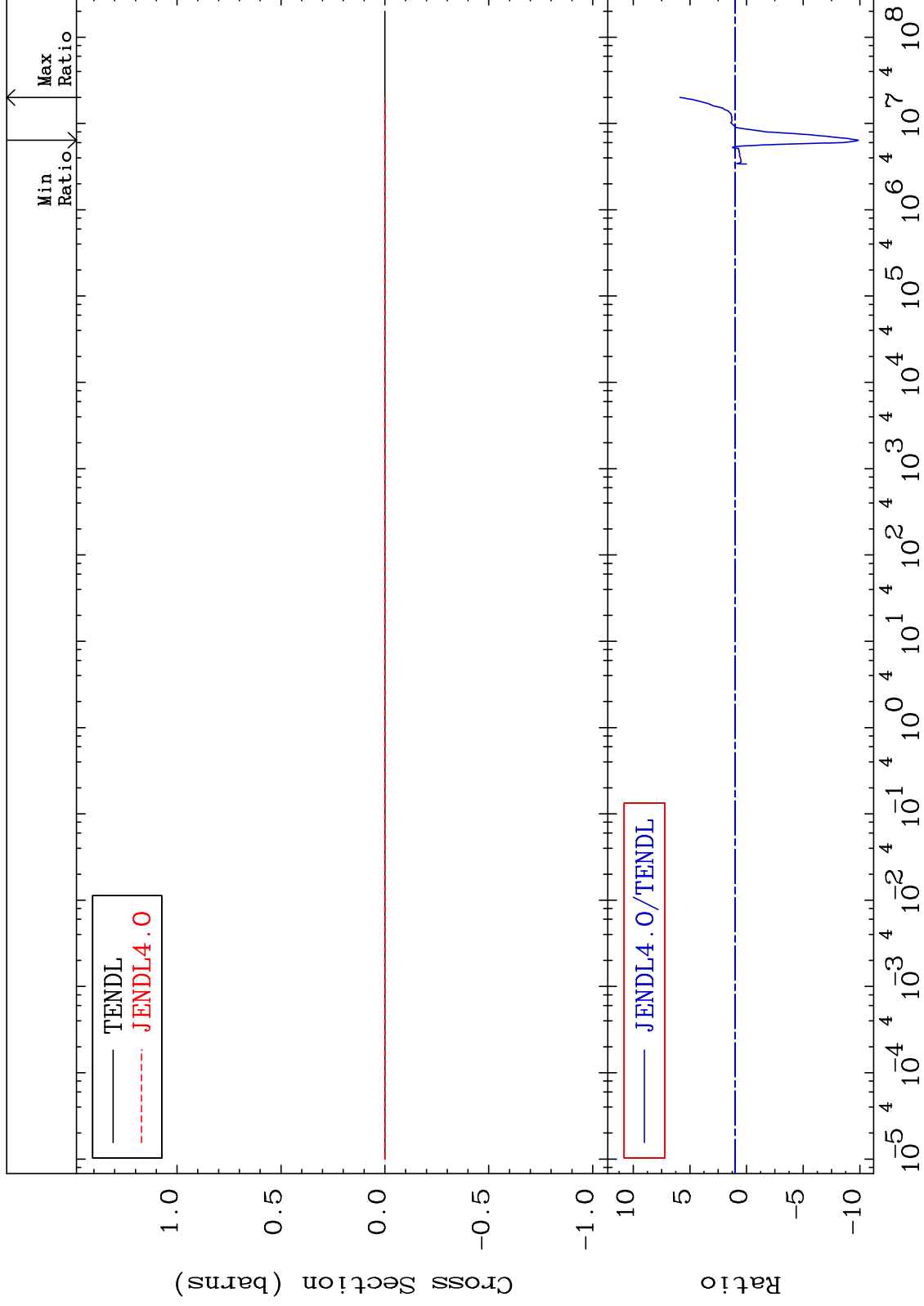
16-S -36  
-1088. To 487.0 %



MAT 1637

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

16-S -36  
-1088. To 487.0 %



22

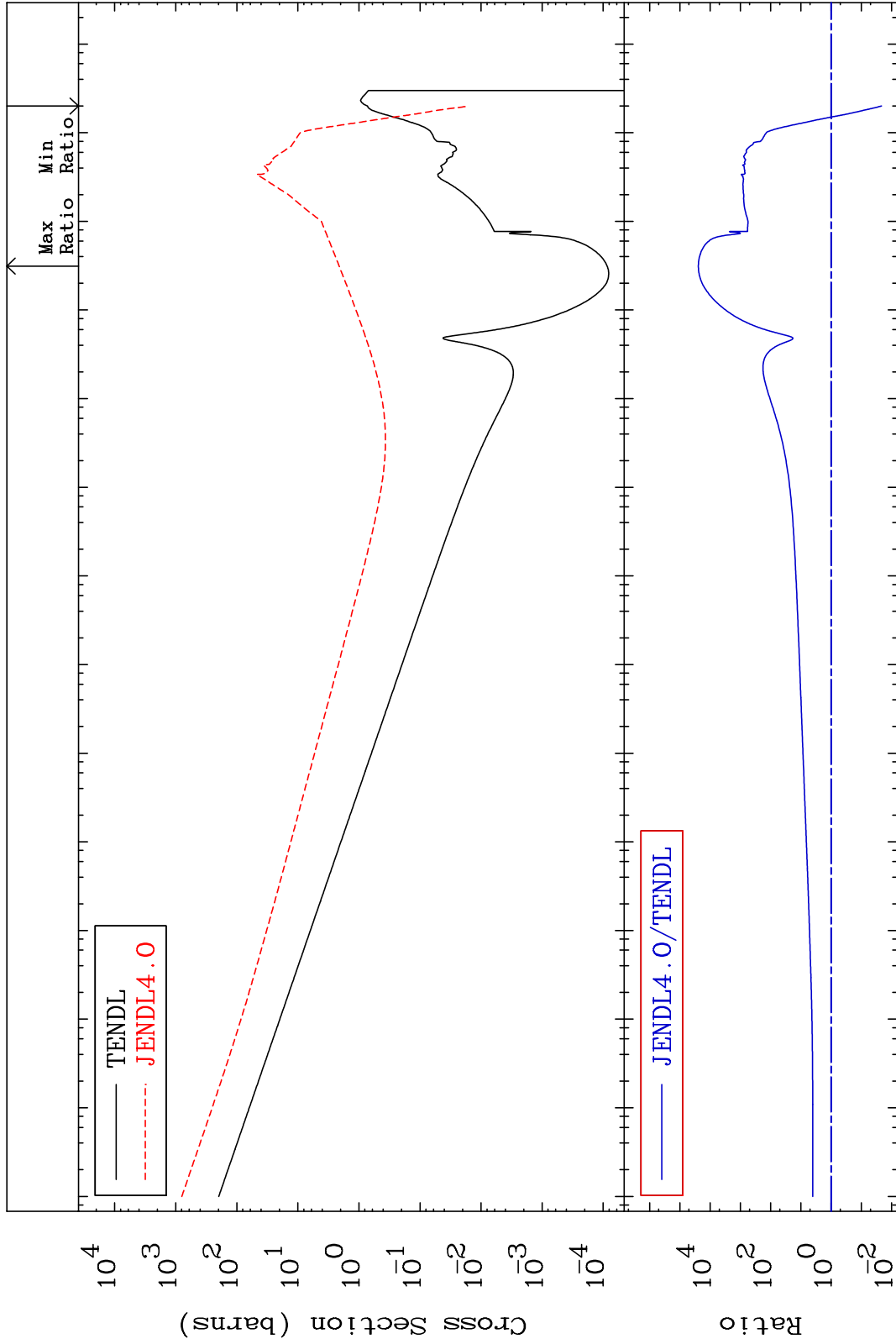
Incident Energy (eV)

16-S -36

MAT 1637

Kerma capture (mt102)  
Cross Section

16-S -36  
-97.84 To 9999. %



23

Incident Energy (eV)

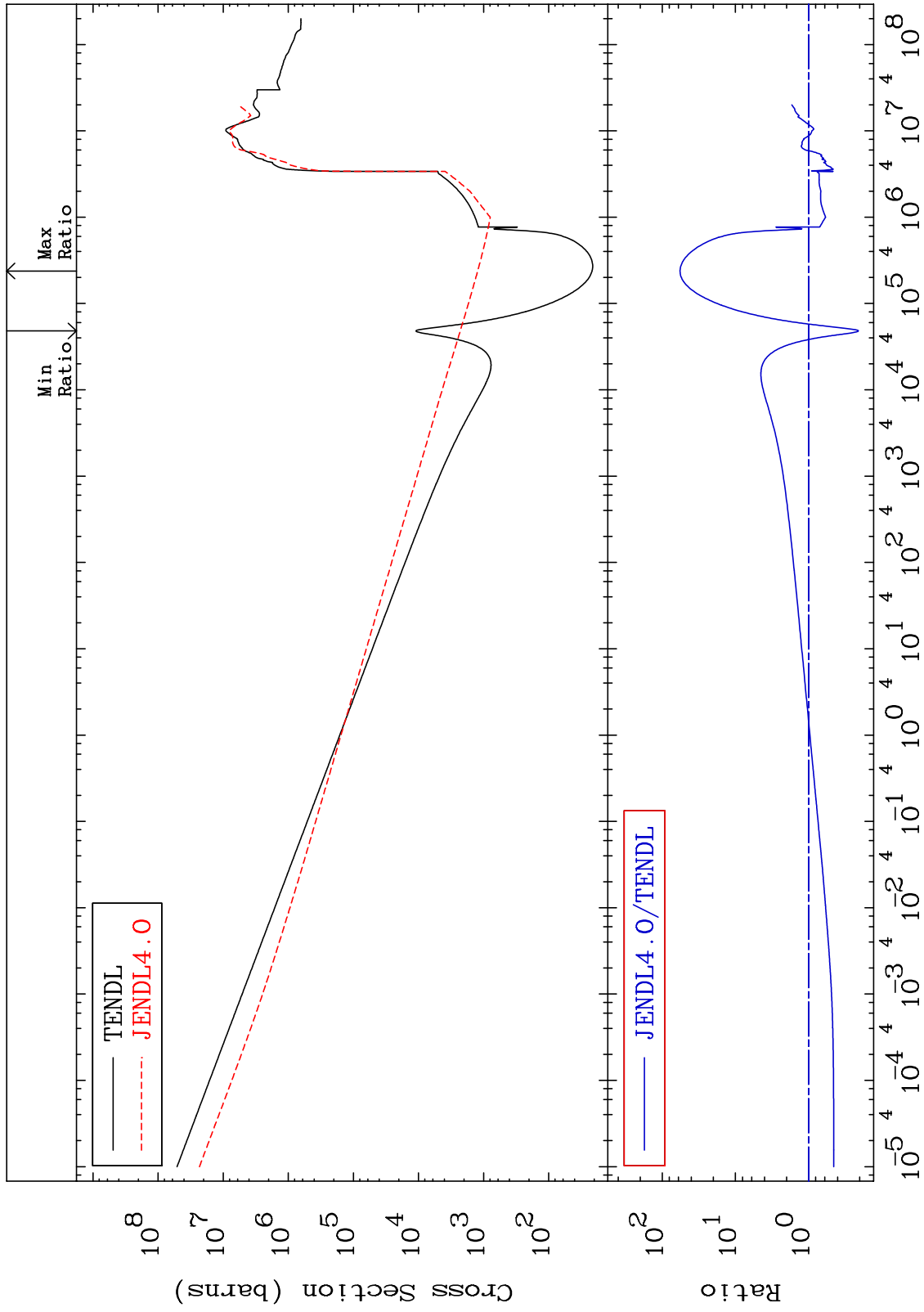
16-S -36



MAT 1637

Total photon (eV-barns)  
Cross Section

16-S -36  
-79.15 To 5607. %



24

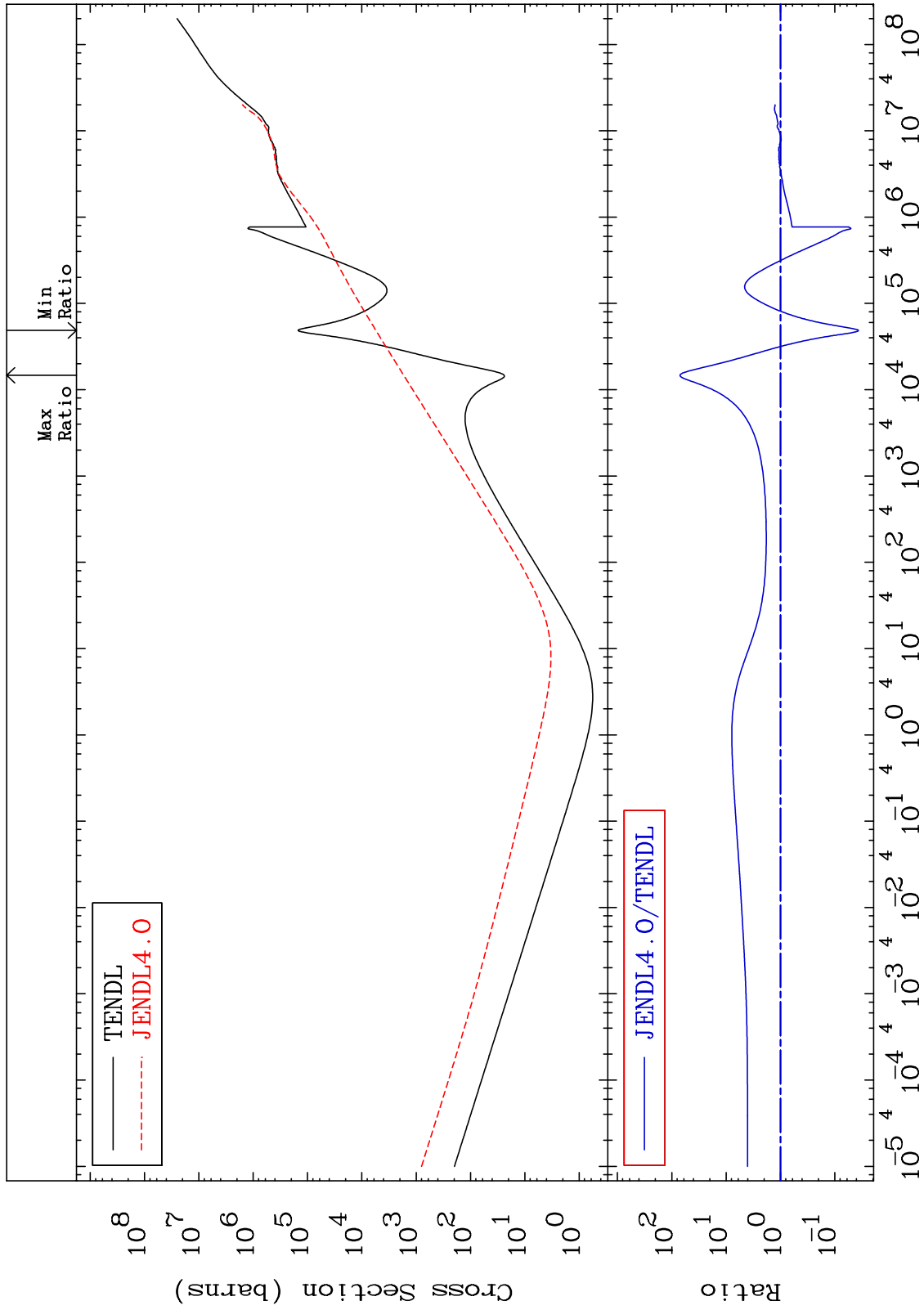
Incident Energy (eV)

16-S -36

MAT 1637

Total kinematic kerma (high limit)  
Cross Section

16-S -36  
-96.31 To 6953. %



25

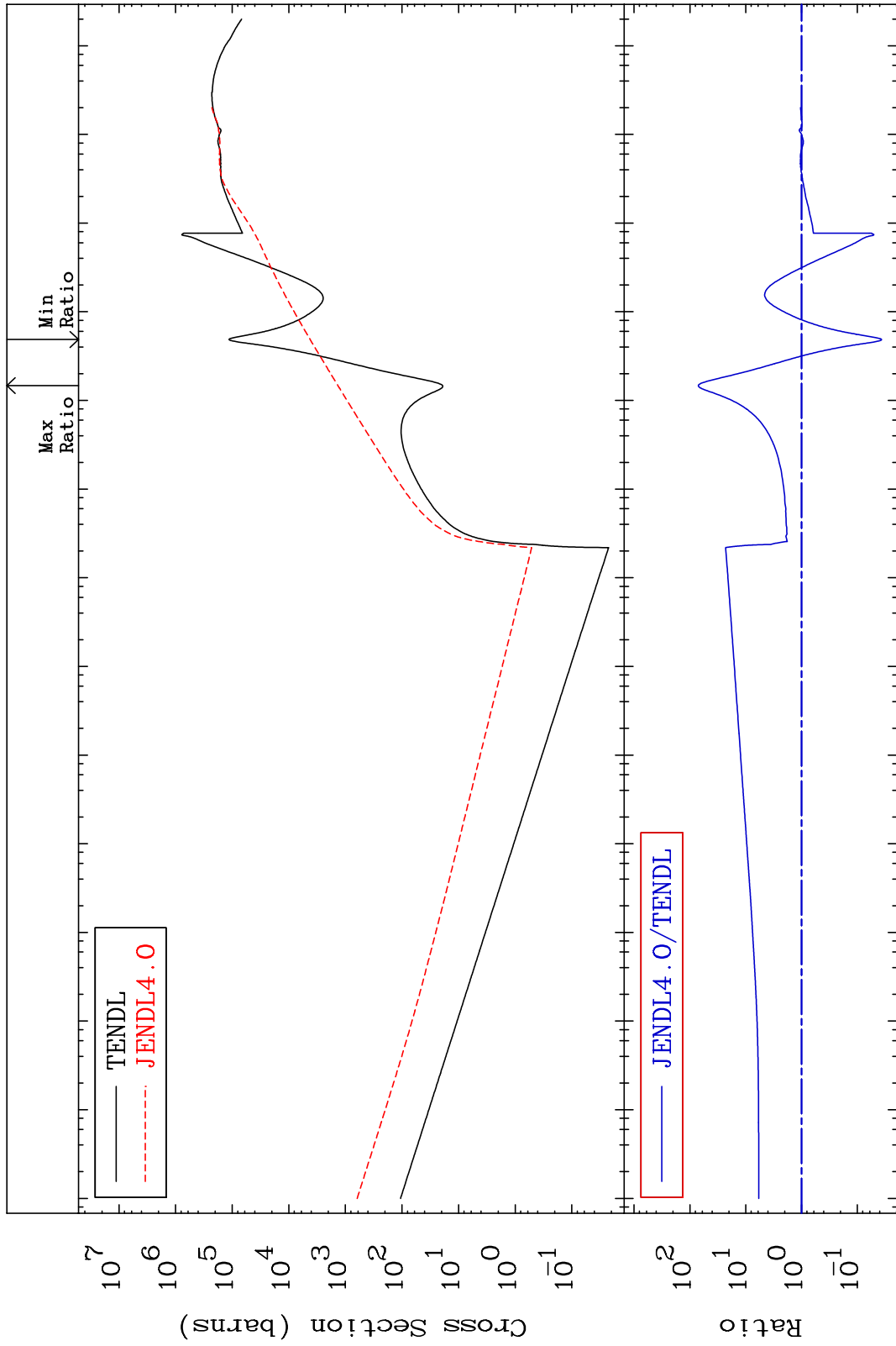
Incident Energy (eV)

16-S -36

MAT 1637

Dpa total (eV-barns)  
Cross Section

16-S -36  
-96.31 To 6952. %



26

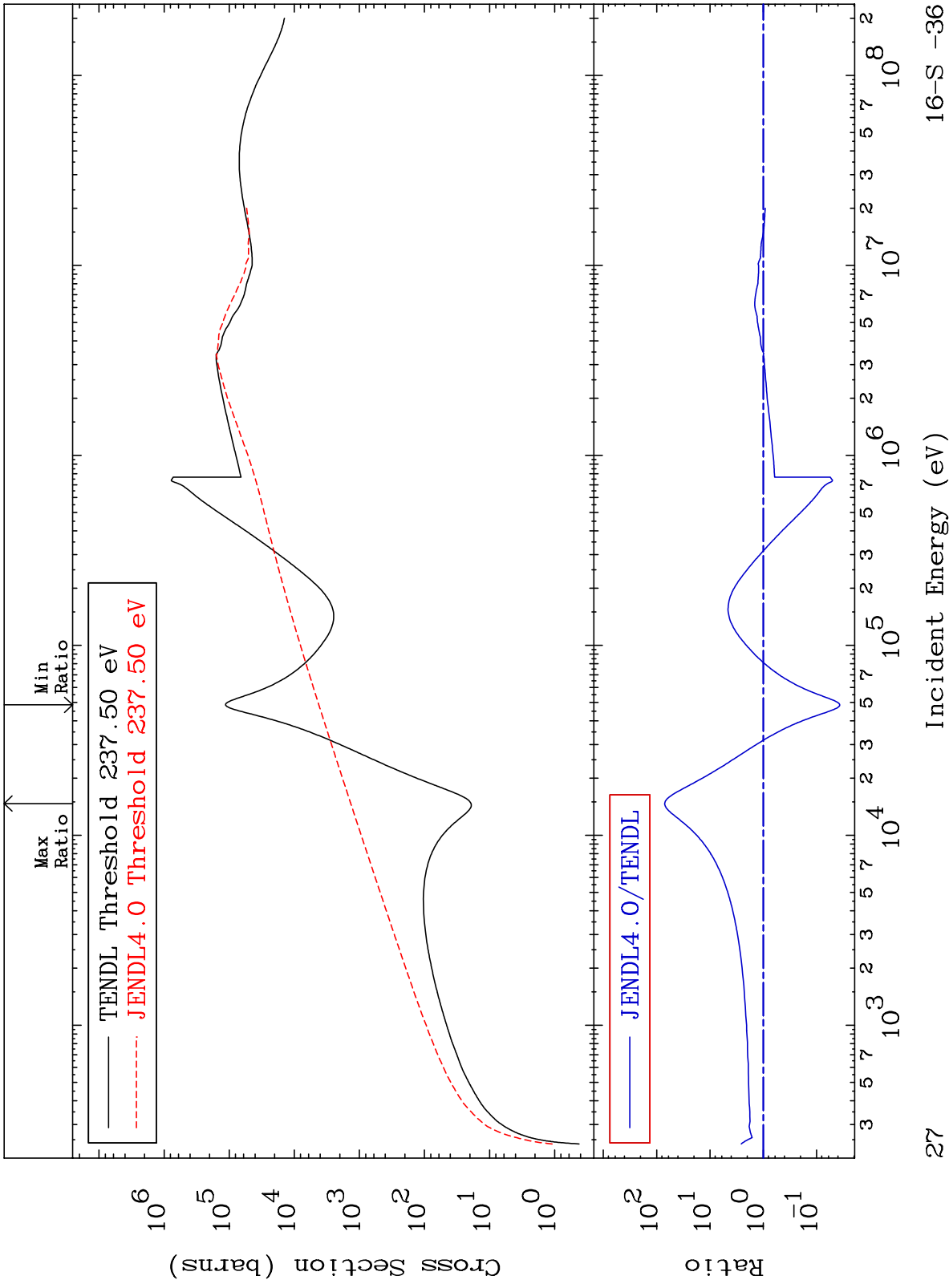
Incident Energy (eV)

16-S -36

MAT 1637

Dpa elastic (mt2)  
Cross Section

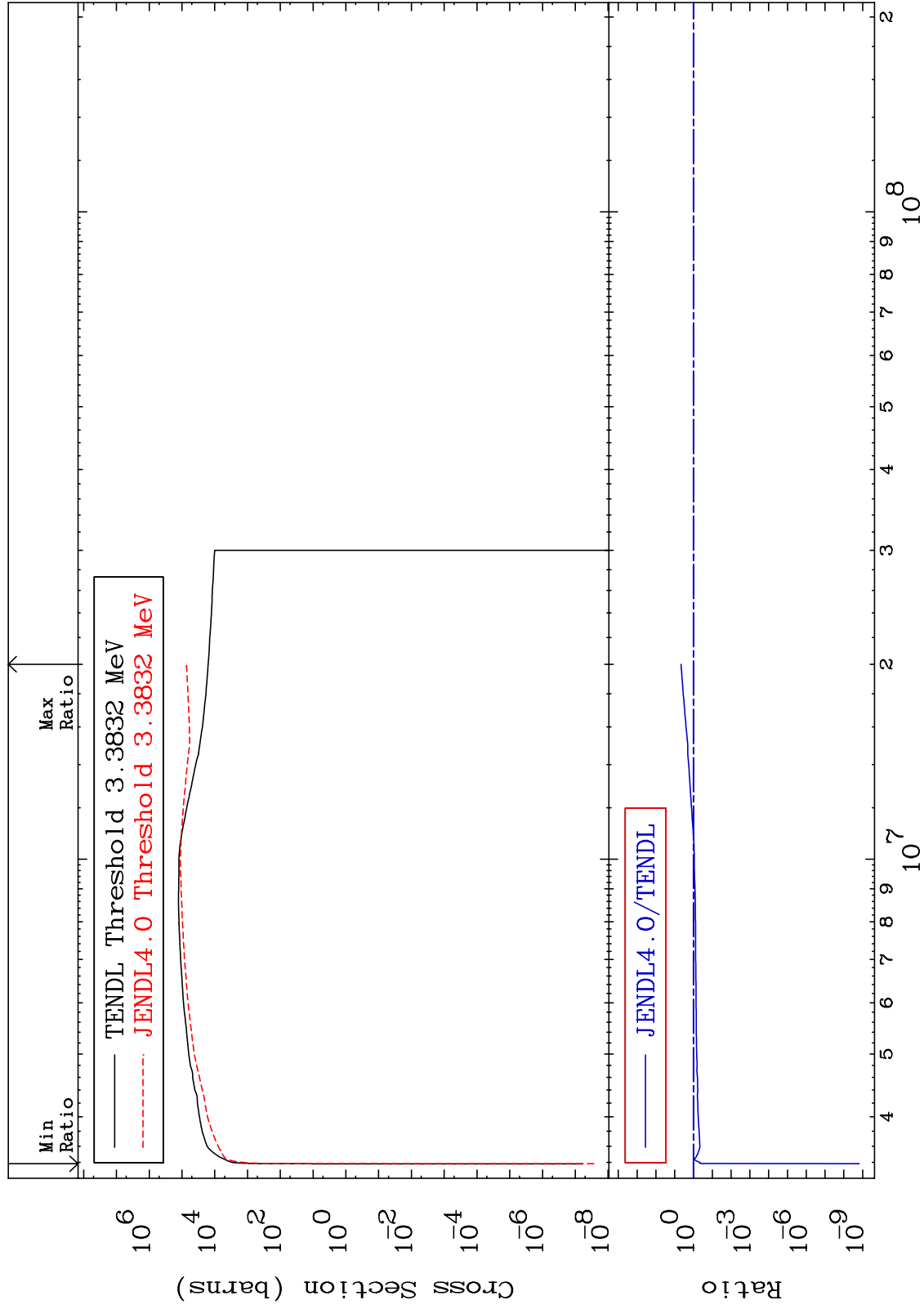
16-S -36  
-96.31 To 6952. %



MAT 1637

Dpa inelastic (mt51-91)  
Cross Section

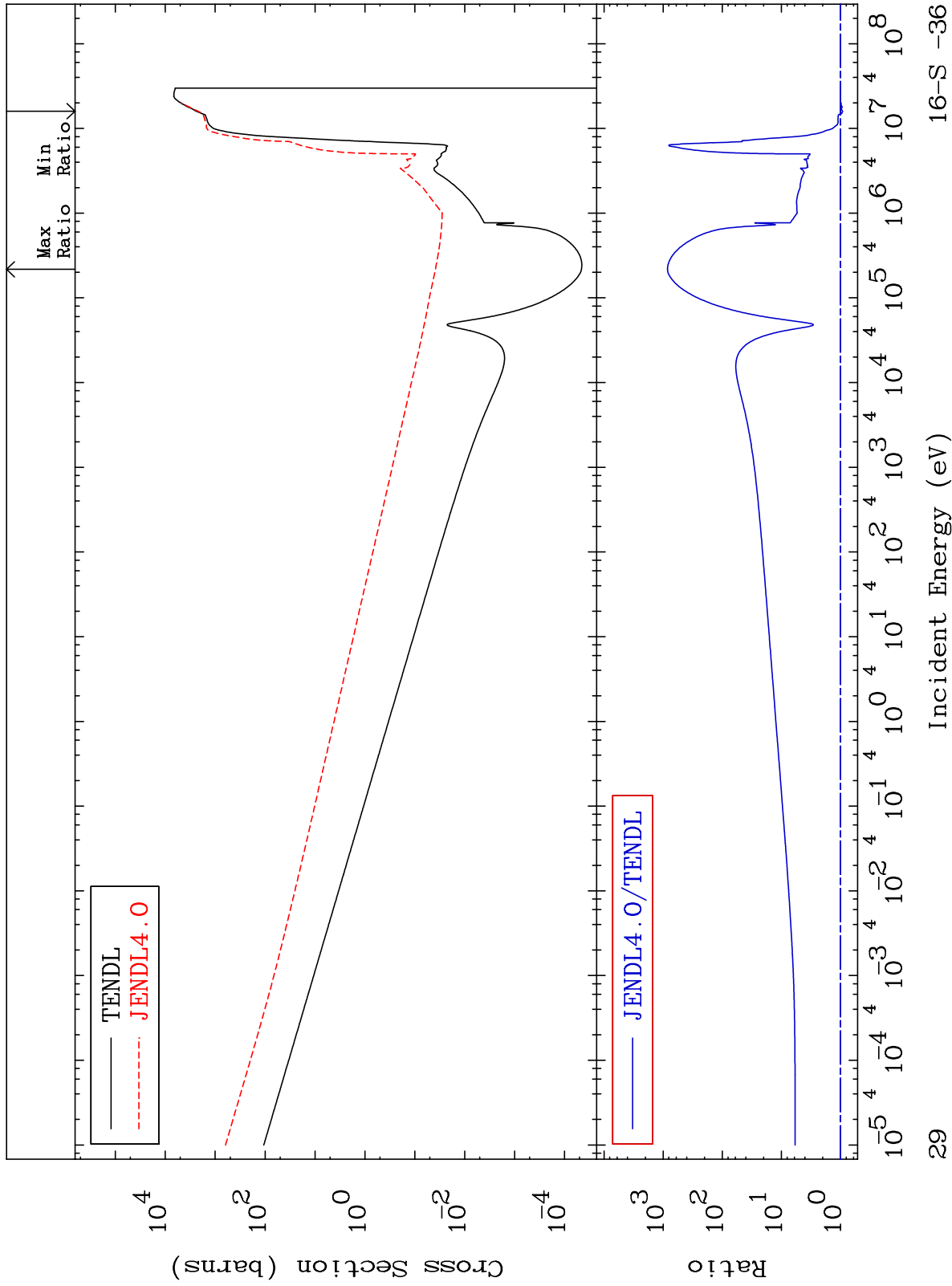
16-S -36  
-100.0 To 359.2 %



MAT 1637

Dpa disappearance (mt102 -120)  
Cross Section

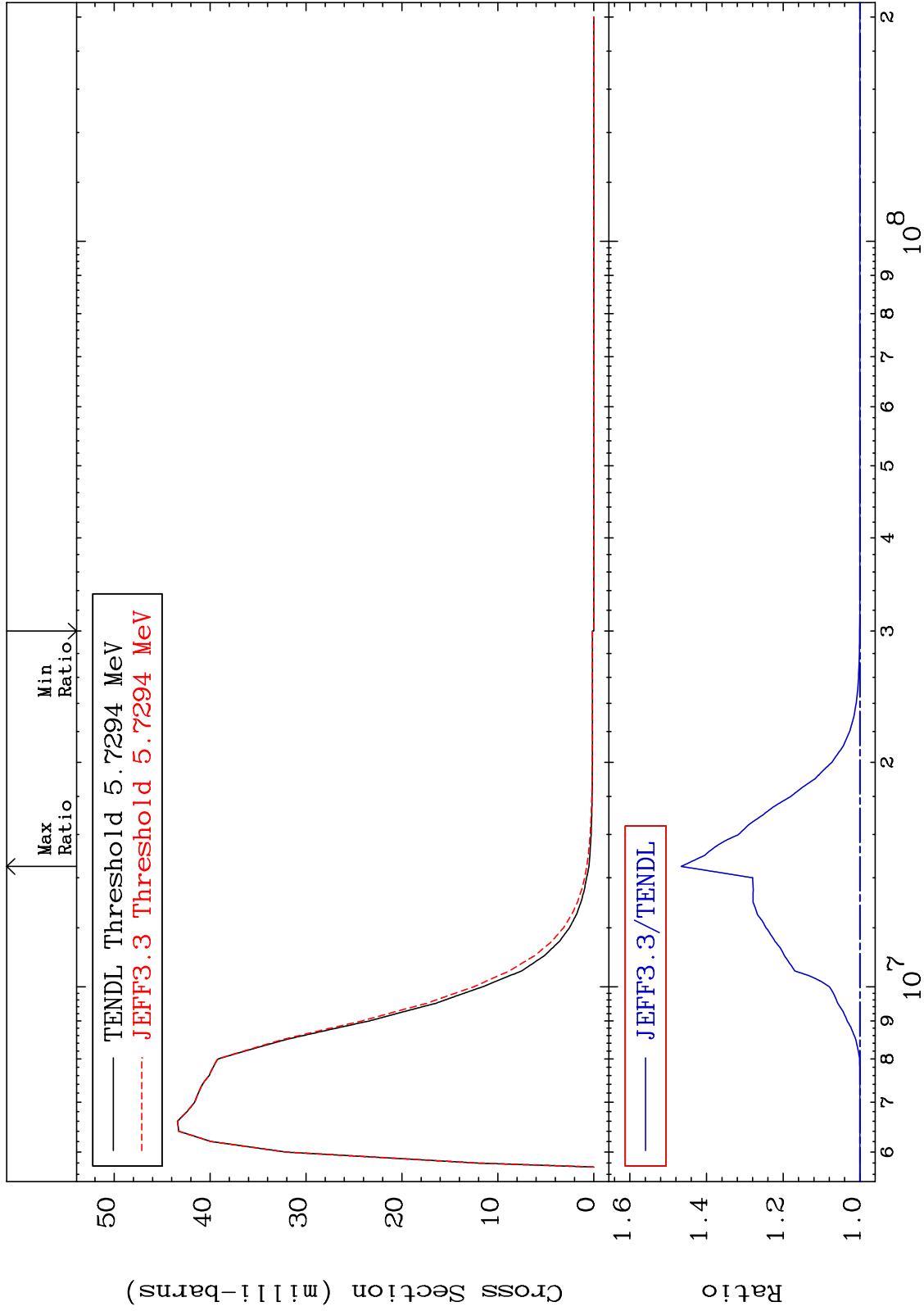
16-S -36  
-8.096 To 9999. %



MAT 1637

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

16-S -36  
0.000 To 46.61 %

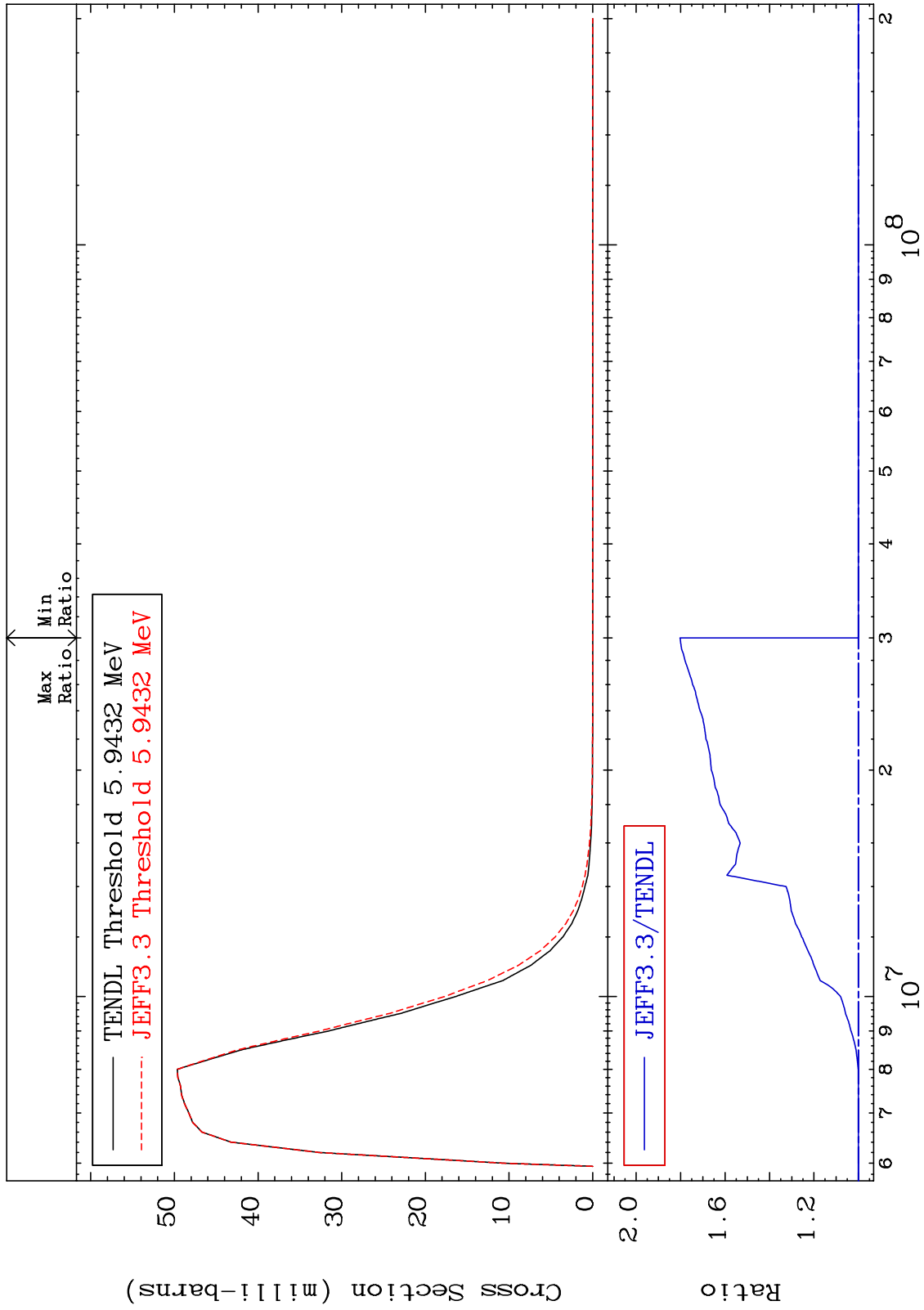


30

Incident Energy (eV)

16-S -36

MAT 1637 MT= 64 (n, n') Level 16-S -36  
 Cross Section 0.000 To 80.28 %

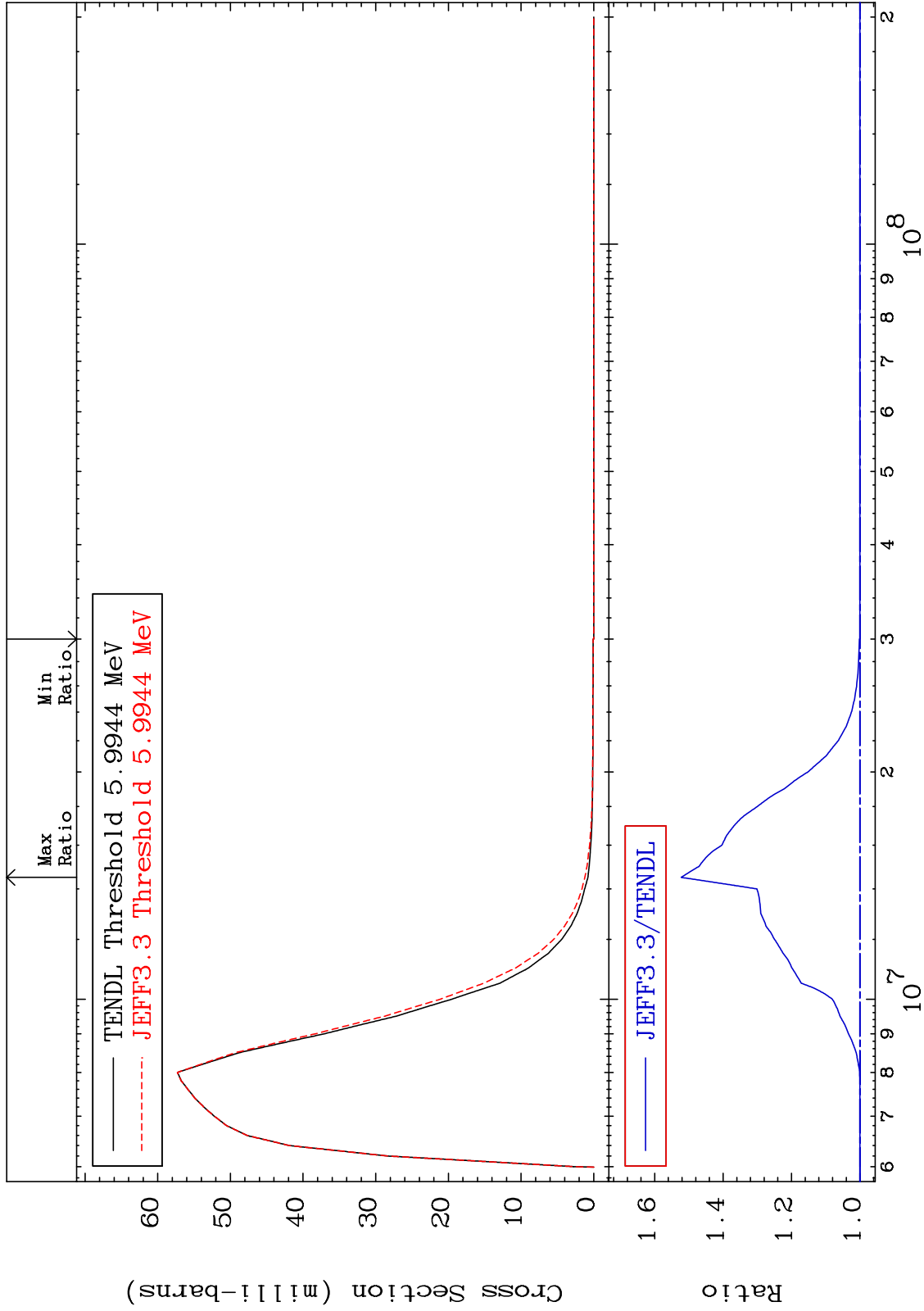




MAT 1637

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

0.000 To 52.24 %  
16-S -36



32

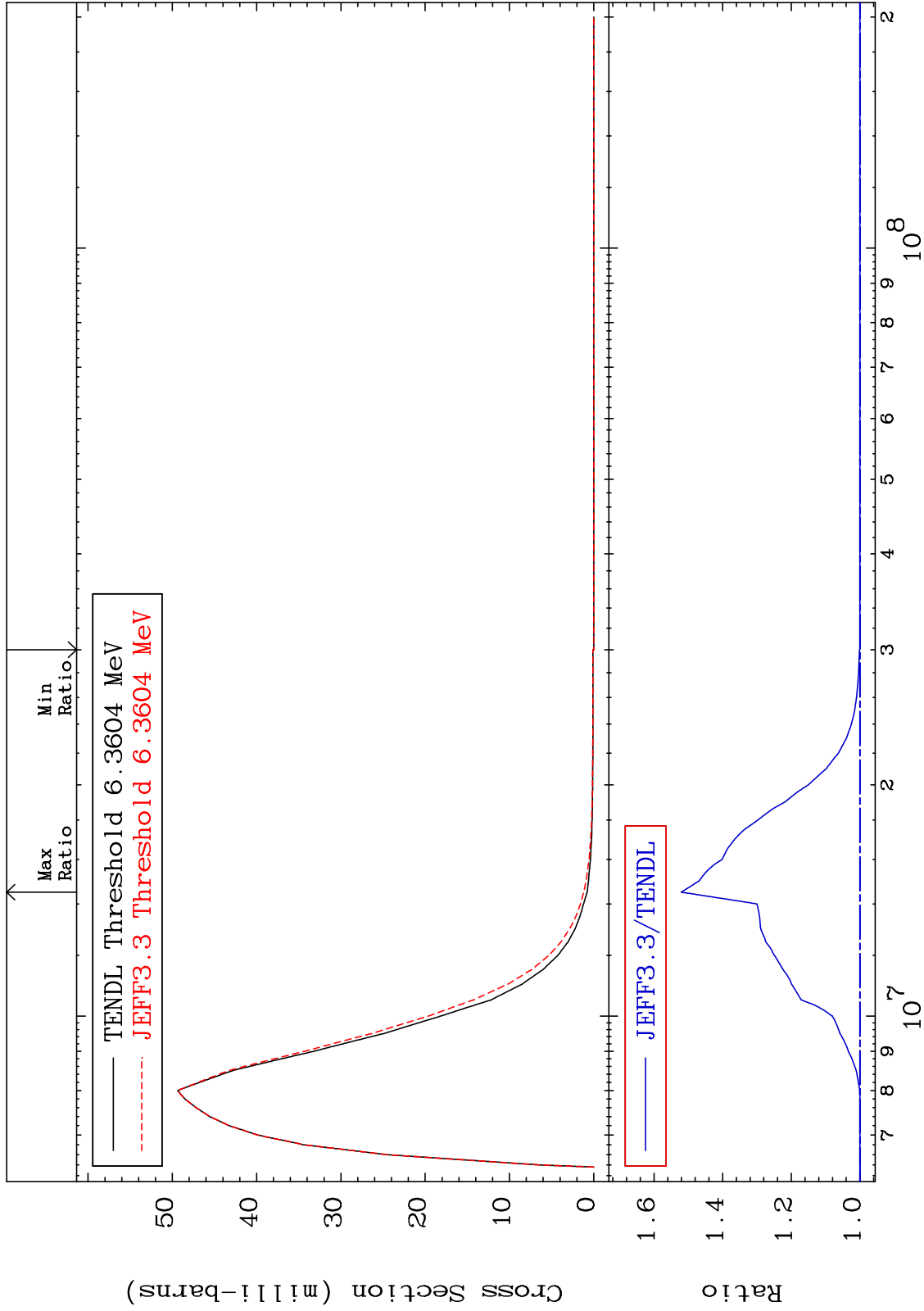
Incident Energy (eV)

16-S -36

MAT 1637

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

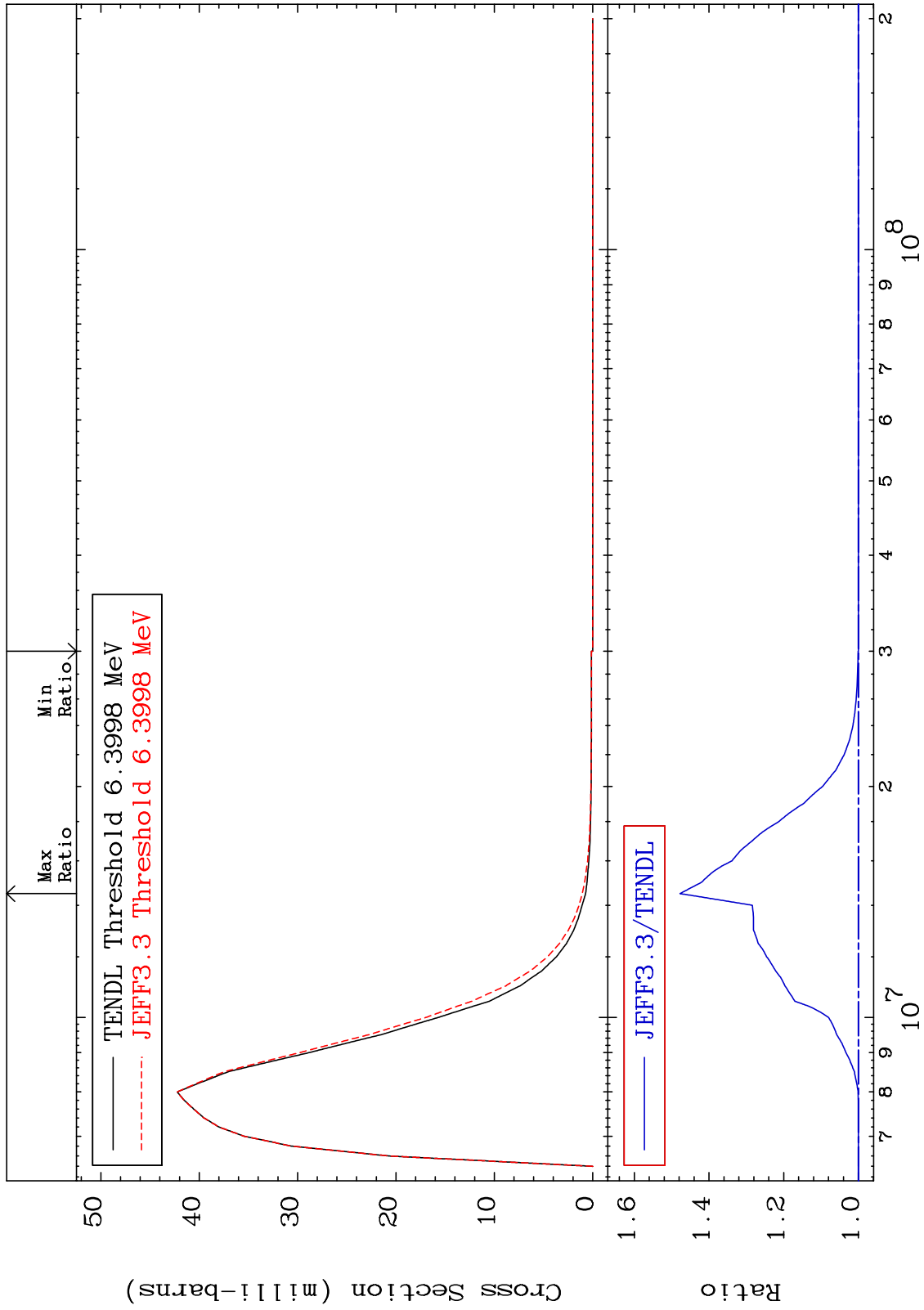
16-S -36  
0.000 To 52.07 %



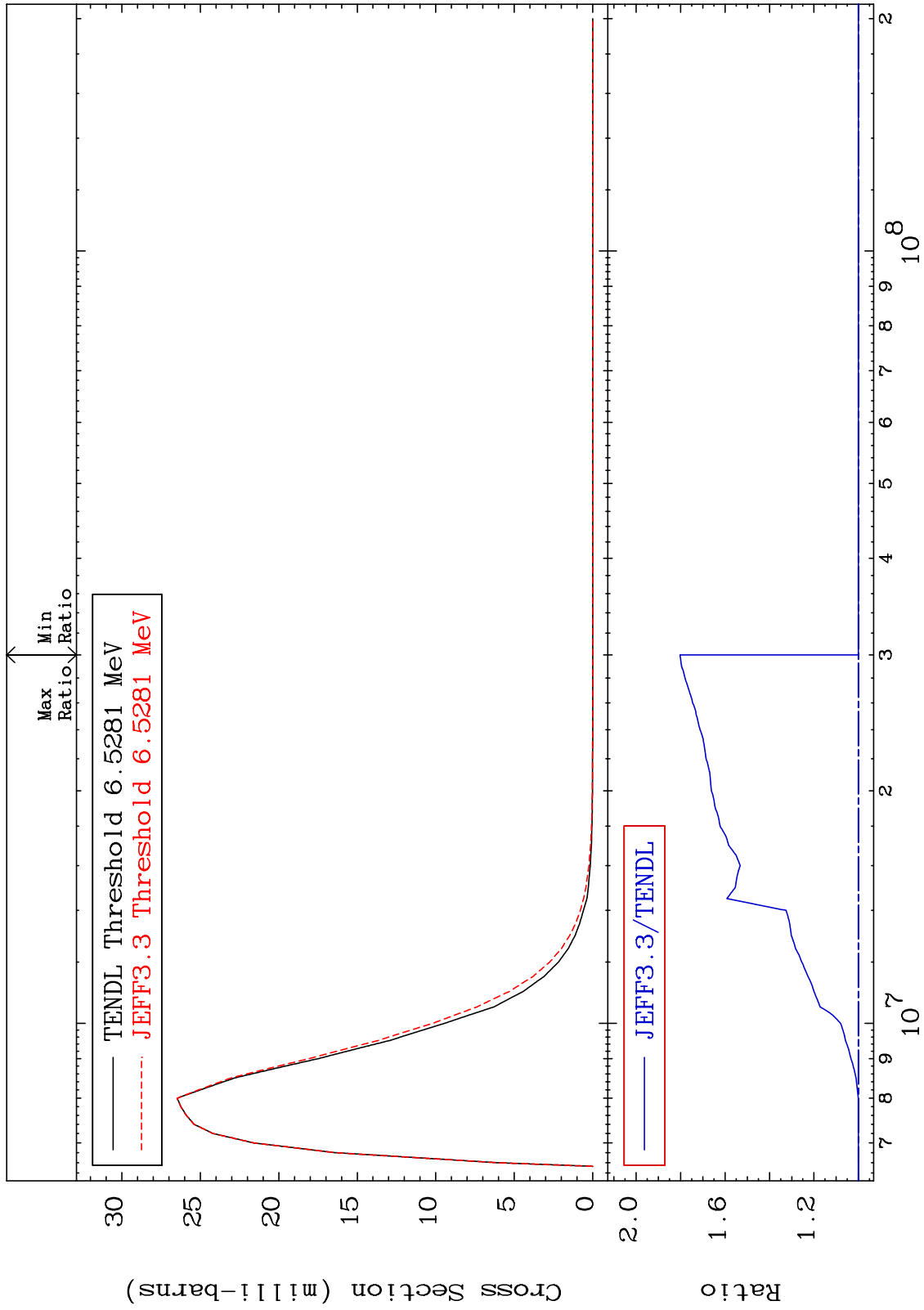
33

16-S -36

MAT 1637 MT= 67 (n,n') Level Cross Section 16-S -36 To 47.77 %

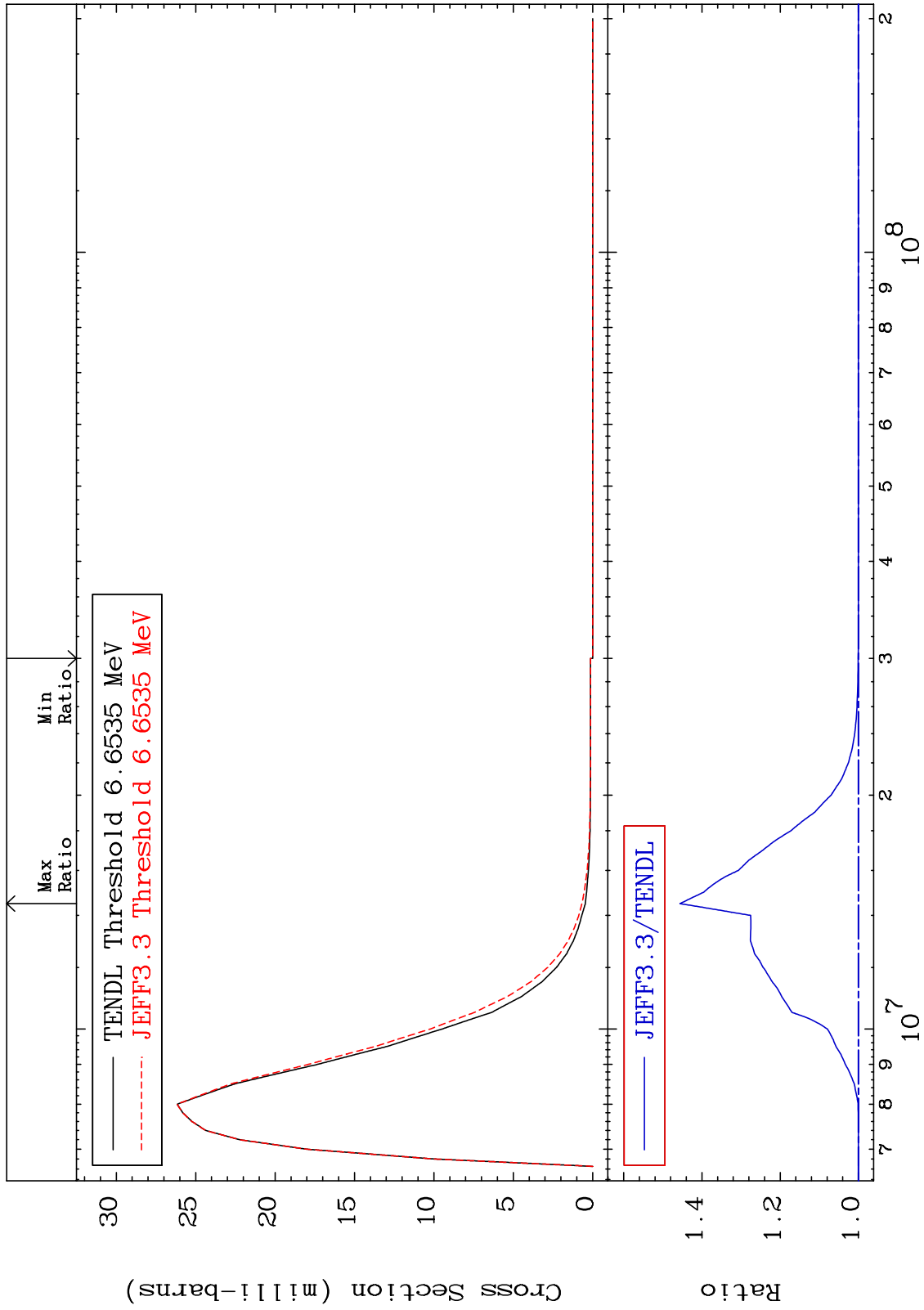


MAT 1637 MT= 68 (n,n') Level Cross Section 16-S -36  
0.000 To 80.26 %

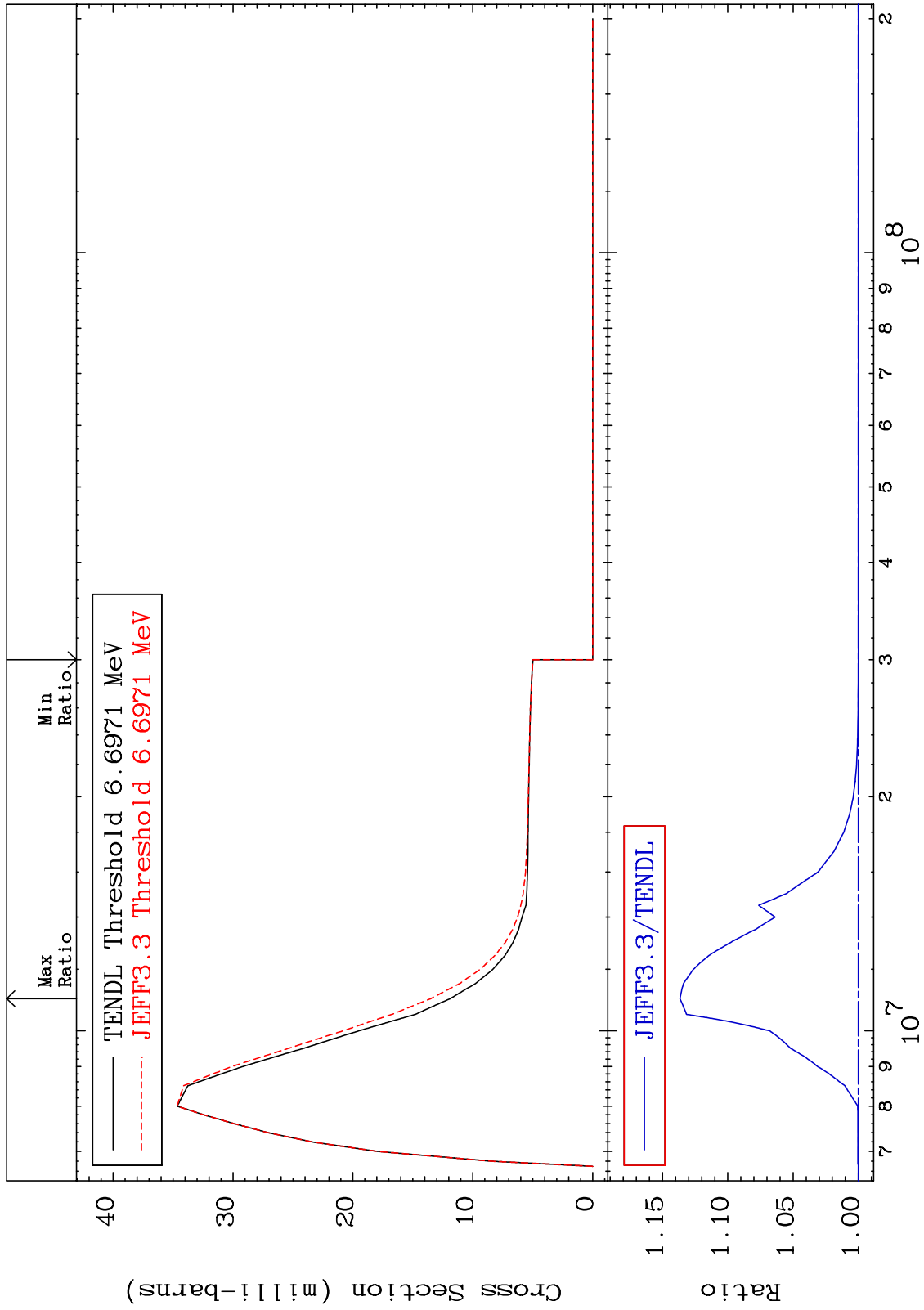


35 Incident Energy (eV) 16-S -36

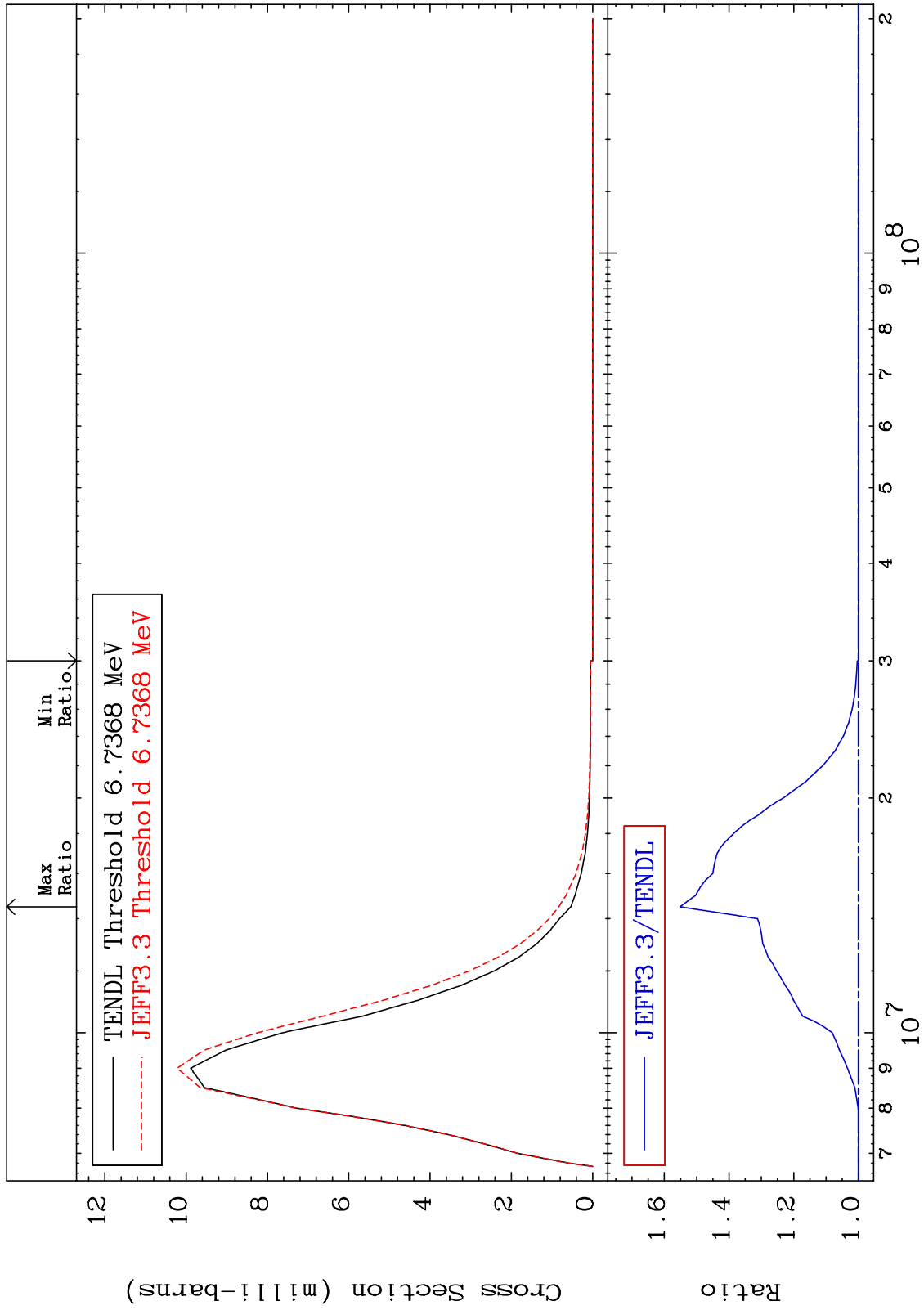
MAT 1637 MT= 69 (n,n') Level  
Cross Section 0.000 To 45.61 % 16-S -36



MAT 1637 MT= 70 (n,n') Level Cross Section 16-S -36  
 0.000 To 13.66 %



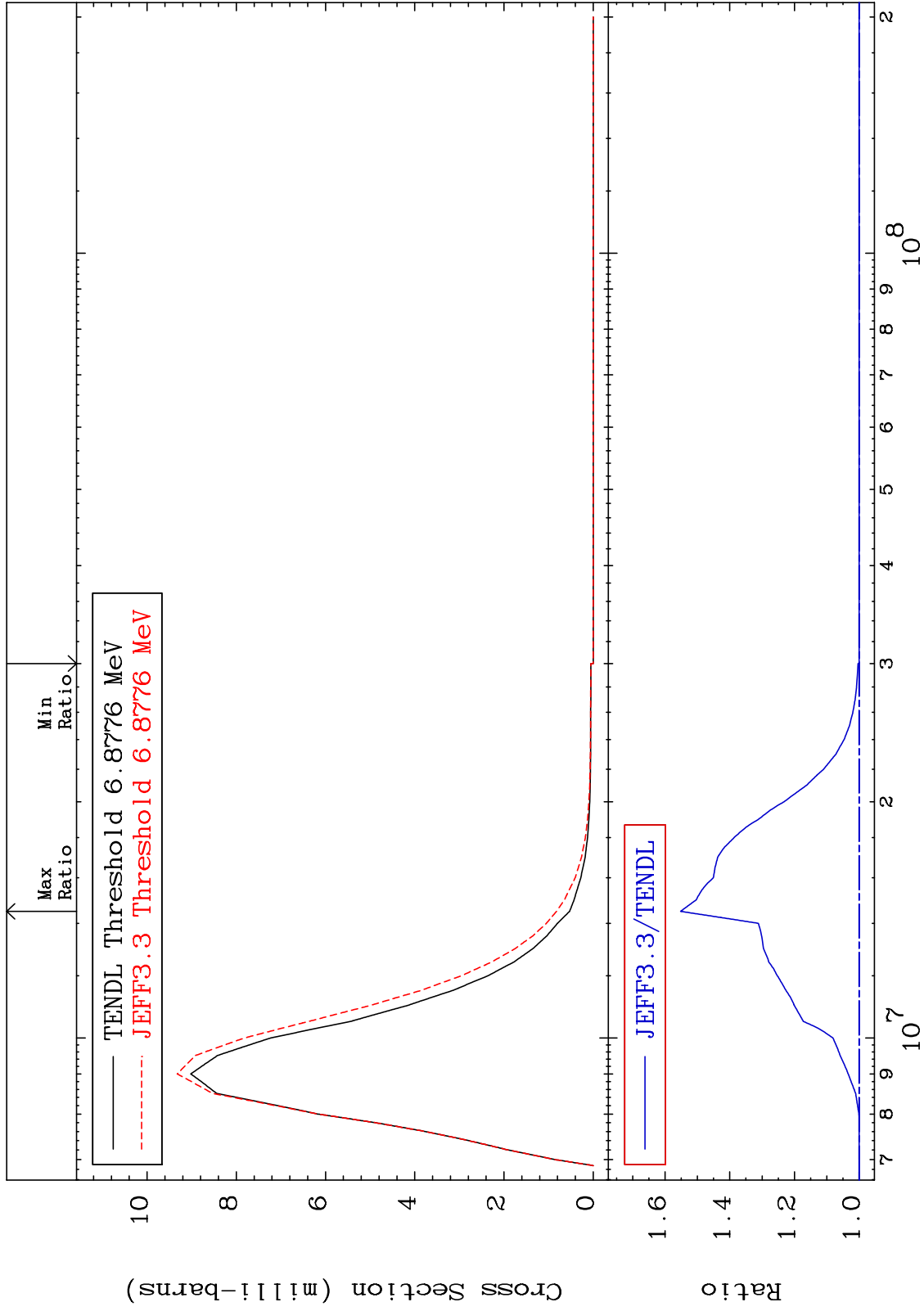
MAT 1637 MT= 71 (n,n') Level Cross Section 16-S -36 To 55.15 %



MAT 1637

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

0.000 To 55.19 %  
16-S -36



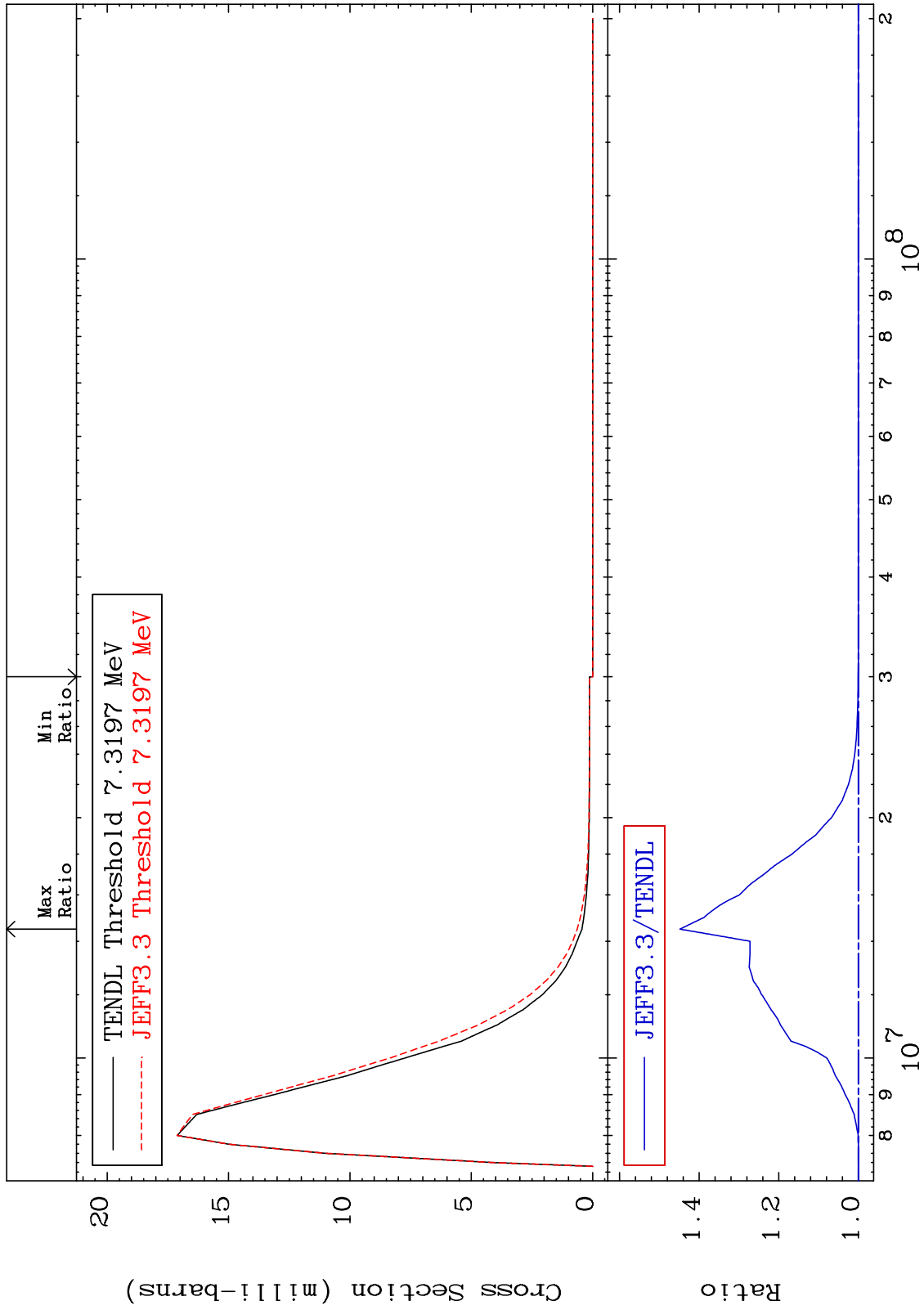
39

Incident Energy (eV)

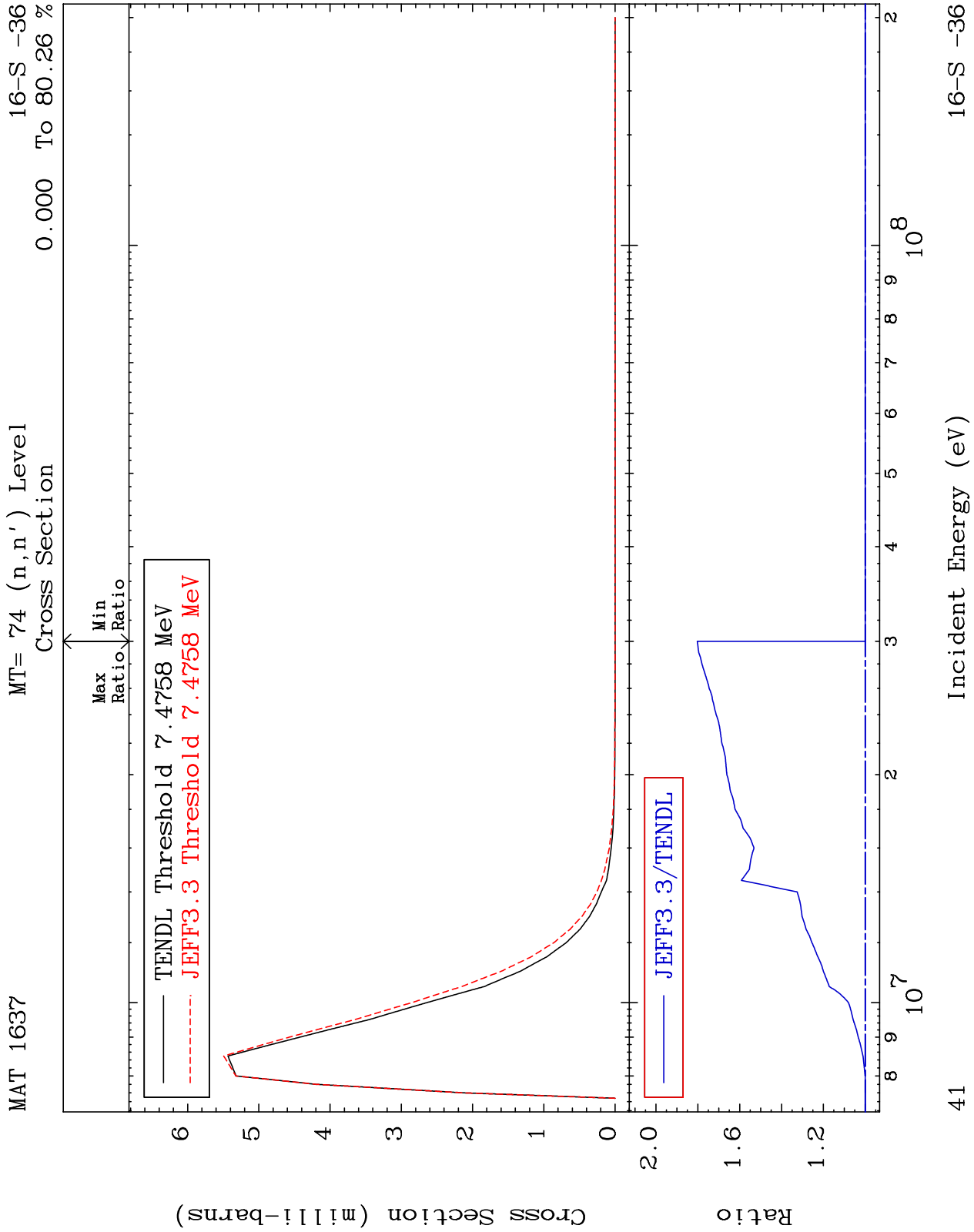
16-S -36



MAT 1637 MT= 73 (n,n') Level Cross Section 16-S -36 To 44.80 %



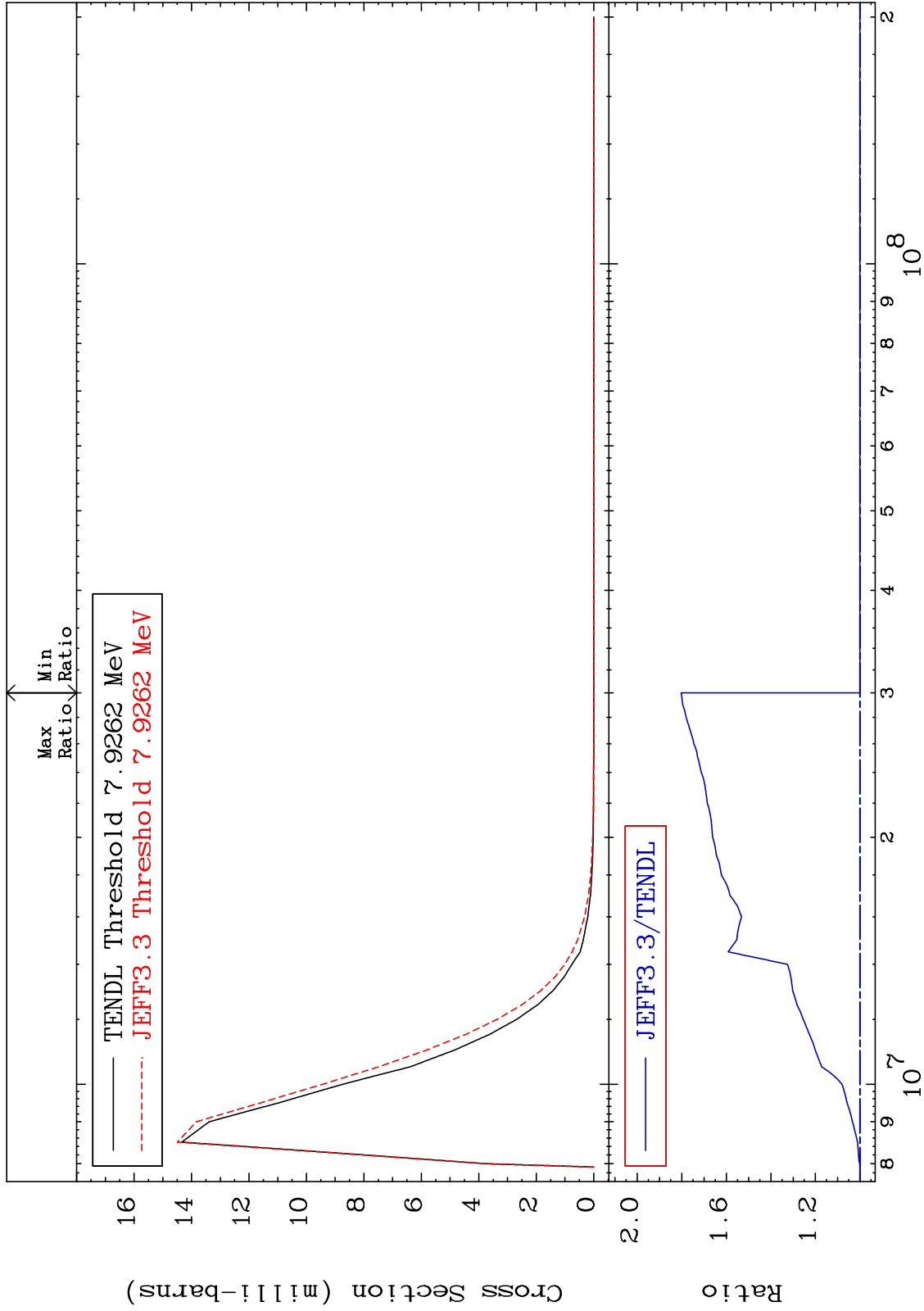
40 Incident Energy (eV) 16-S -36



MAT 1637

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

16-S -36  
0.000 To 80.27 %

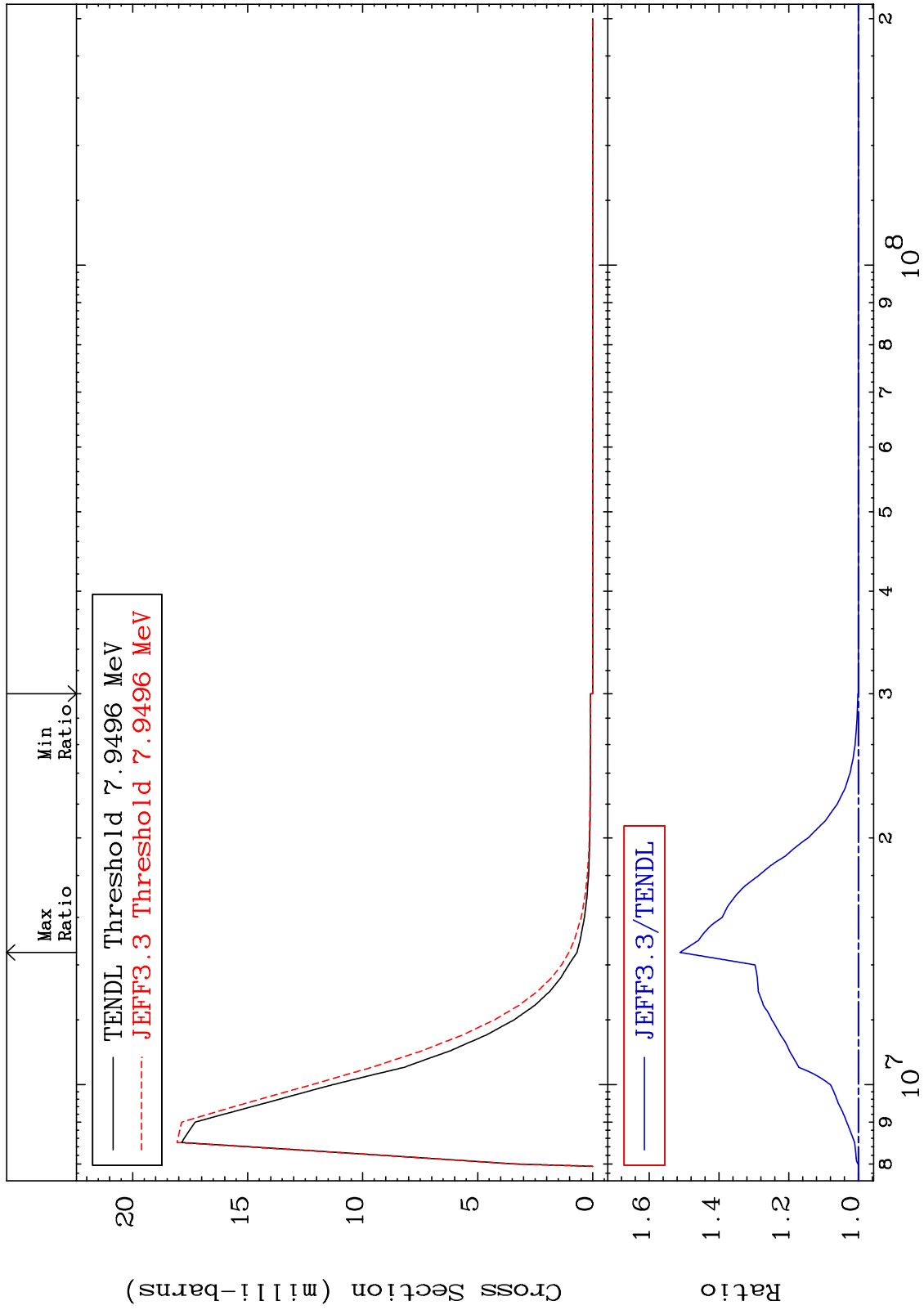


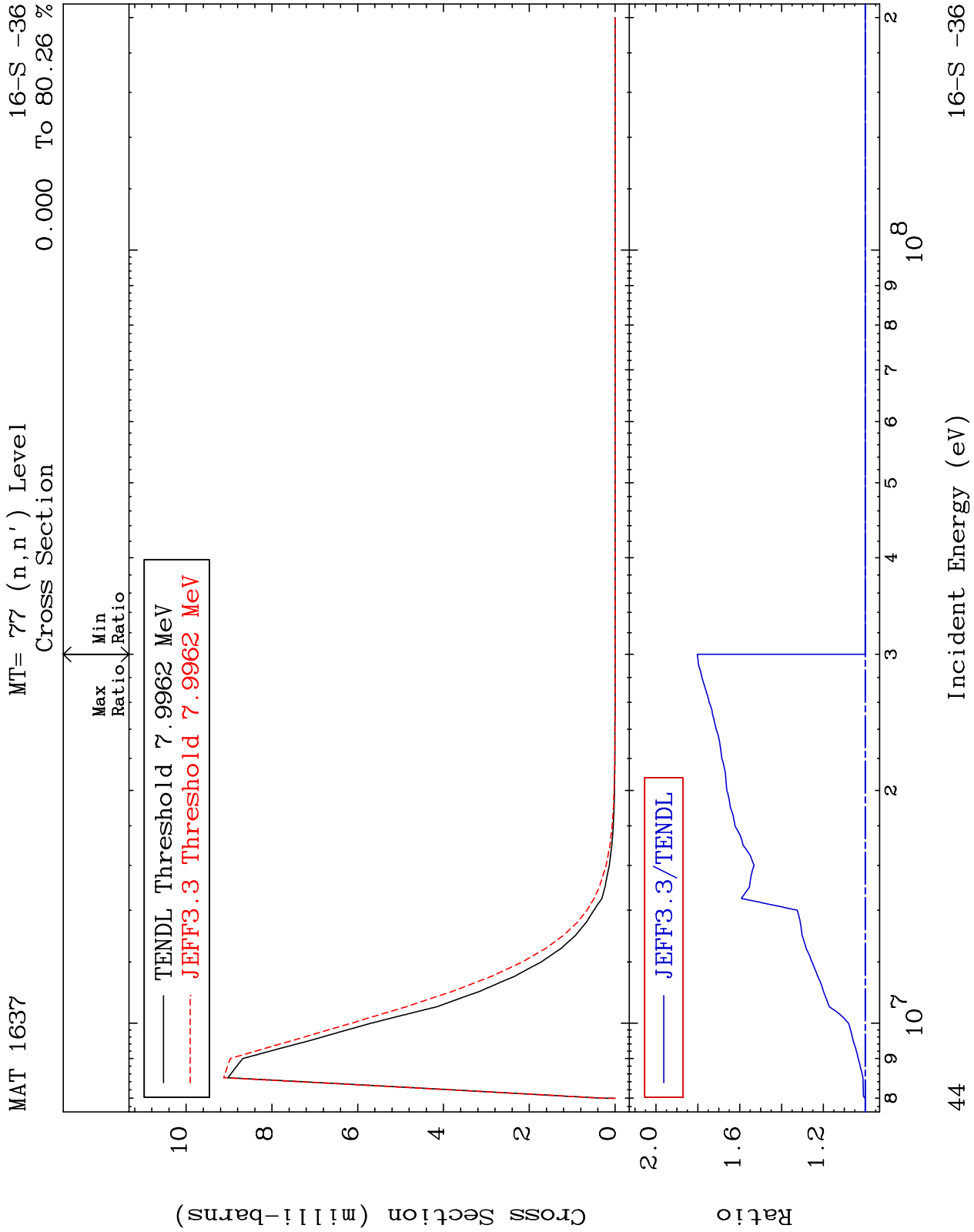
42

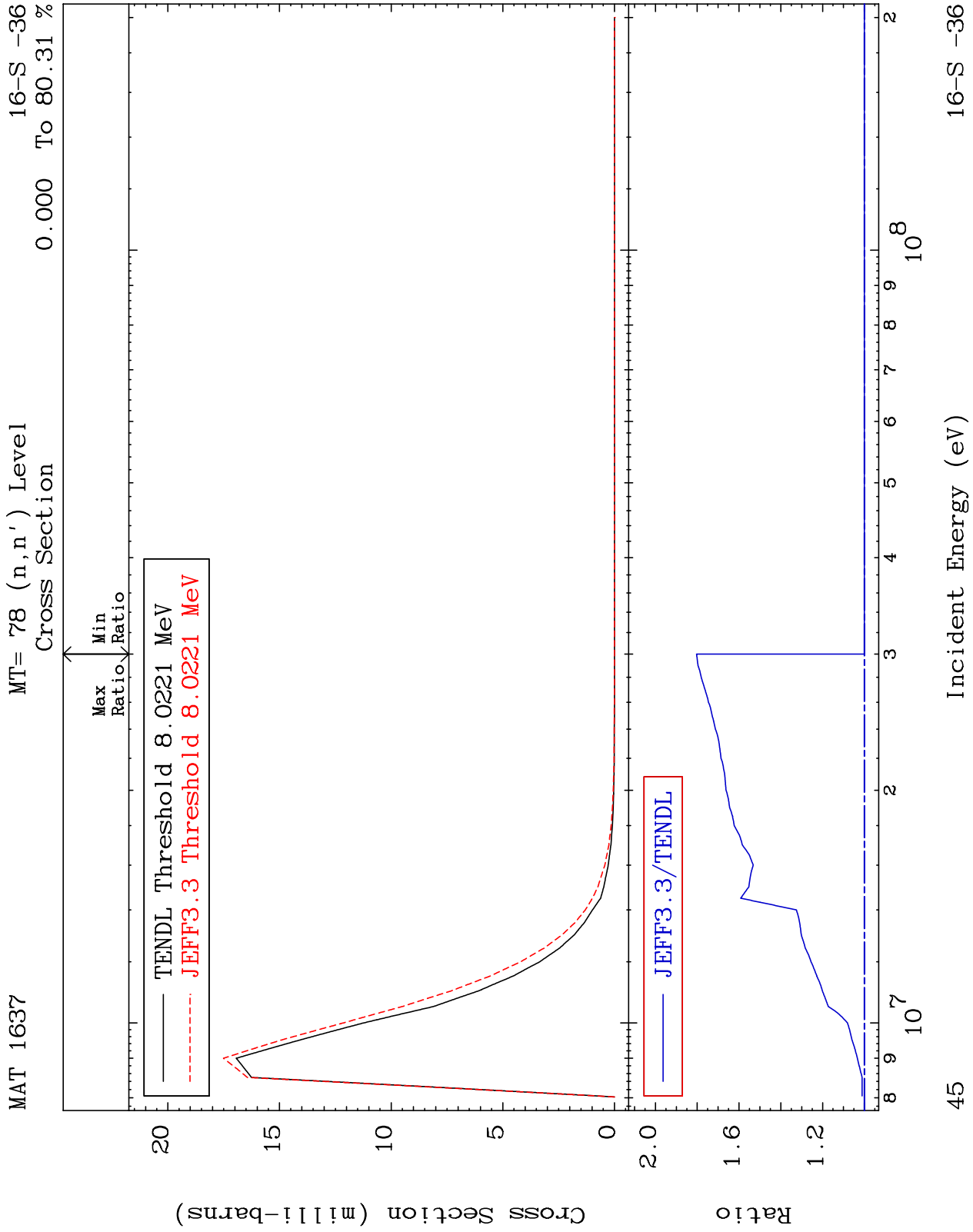
Incident Energy (eV)

16-S -36

MAT 1637 MT= 76 (n,n') Level Cross Section 16-S -36 To 51.18 %



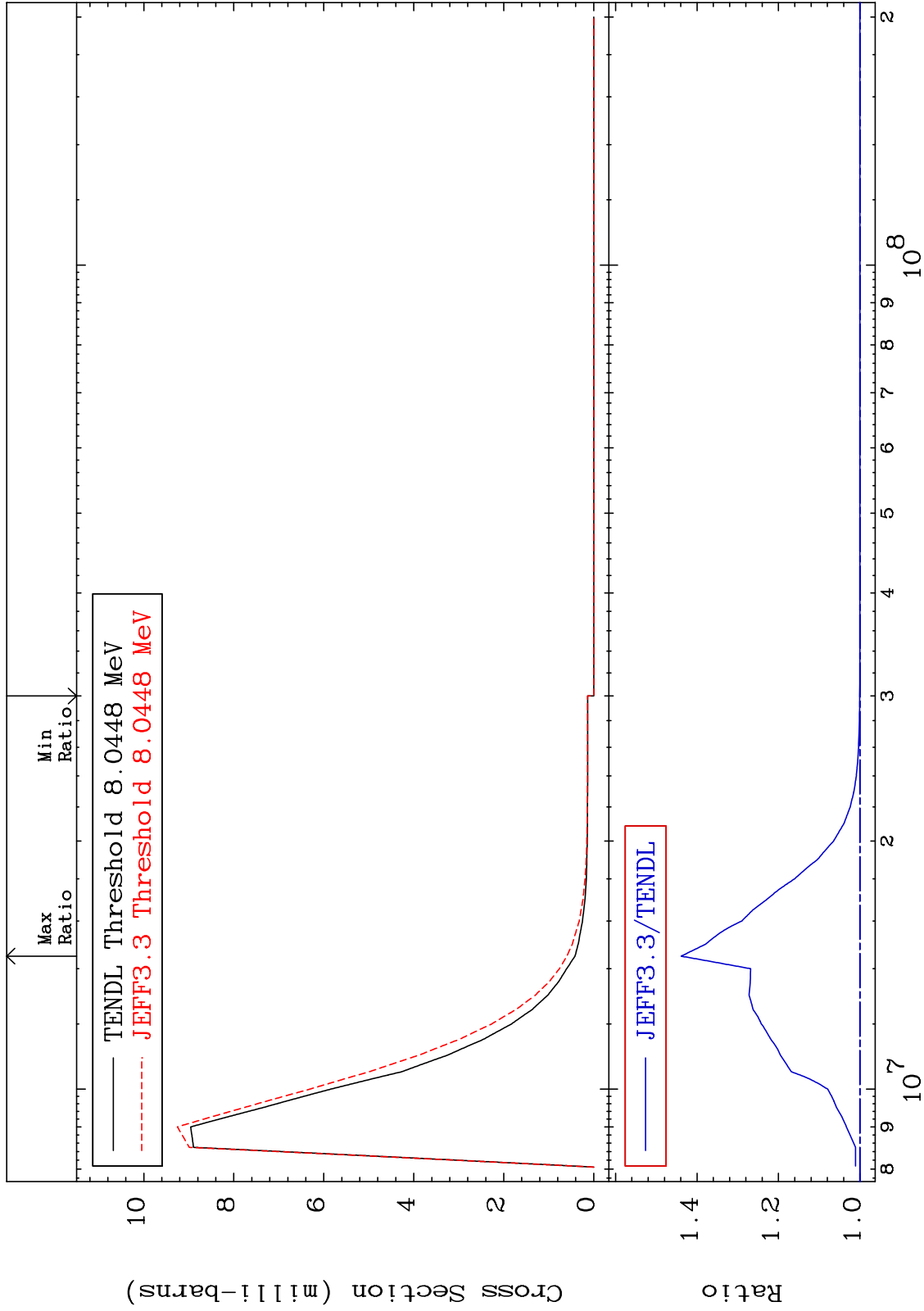




MAT 1637

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

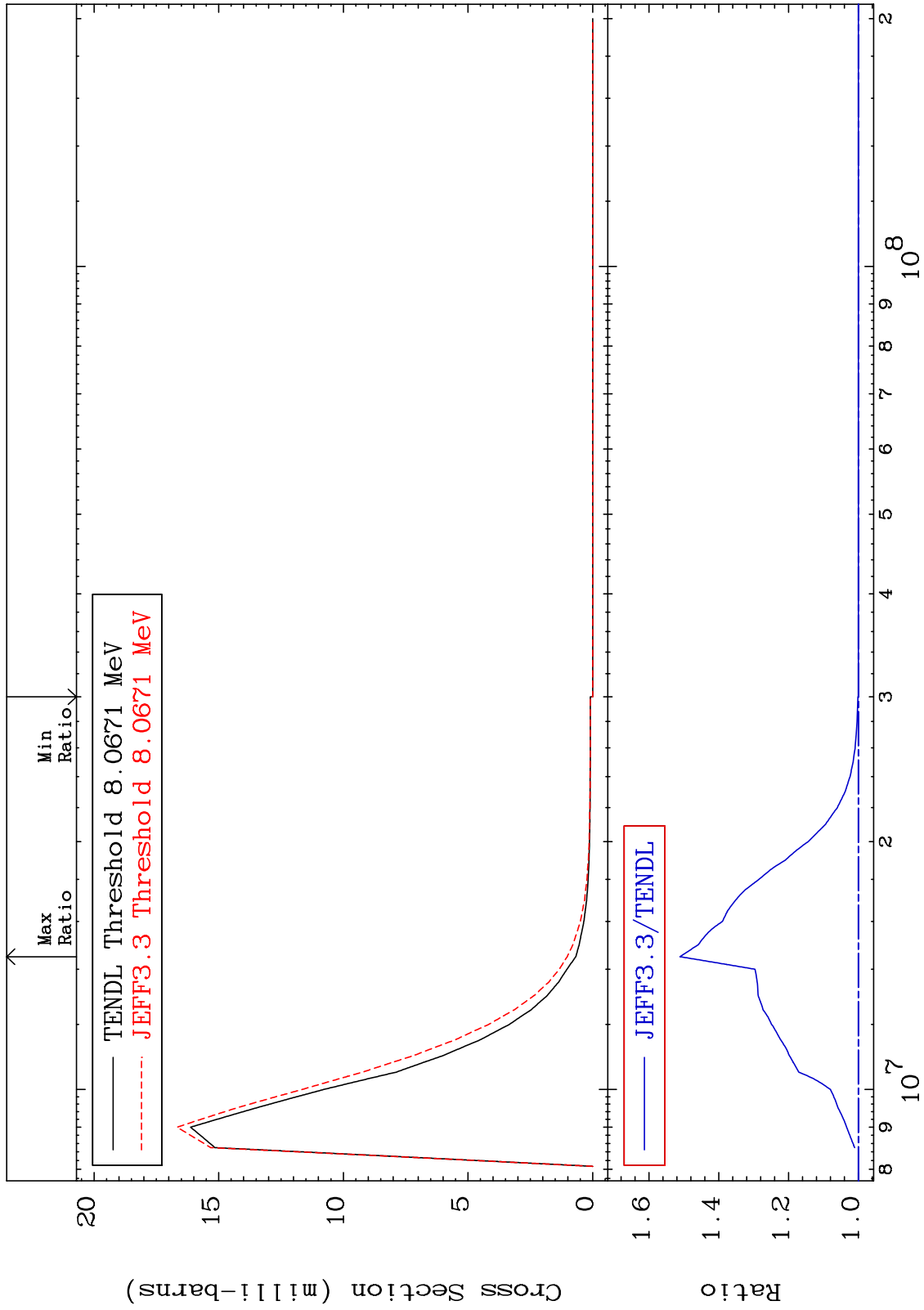
16-S -36  
0.000 To 43.88 %



46

16-S -36

MAT 1637 MT= 80 (n,n') Level Cross Section 16-S -36  
 0.000 To 51.11 %

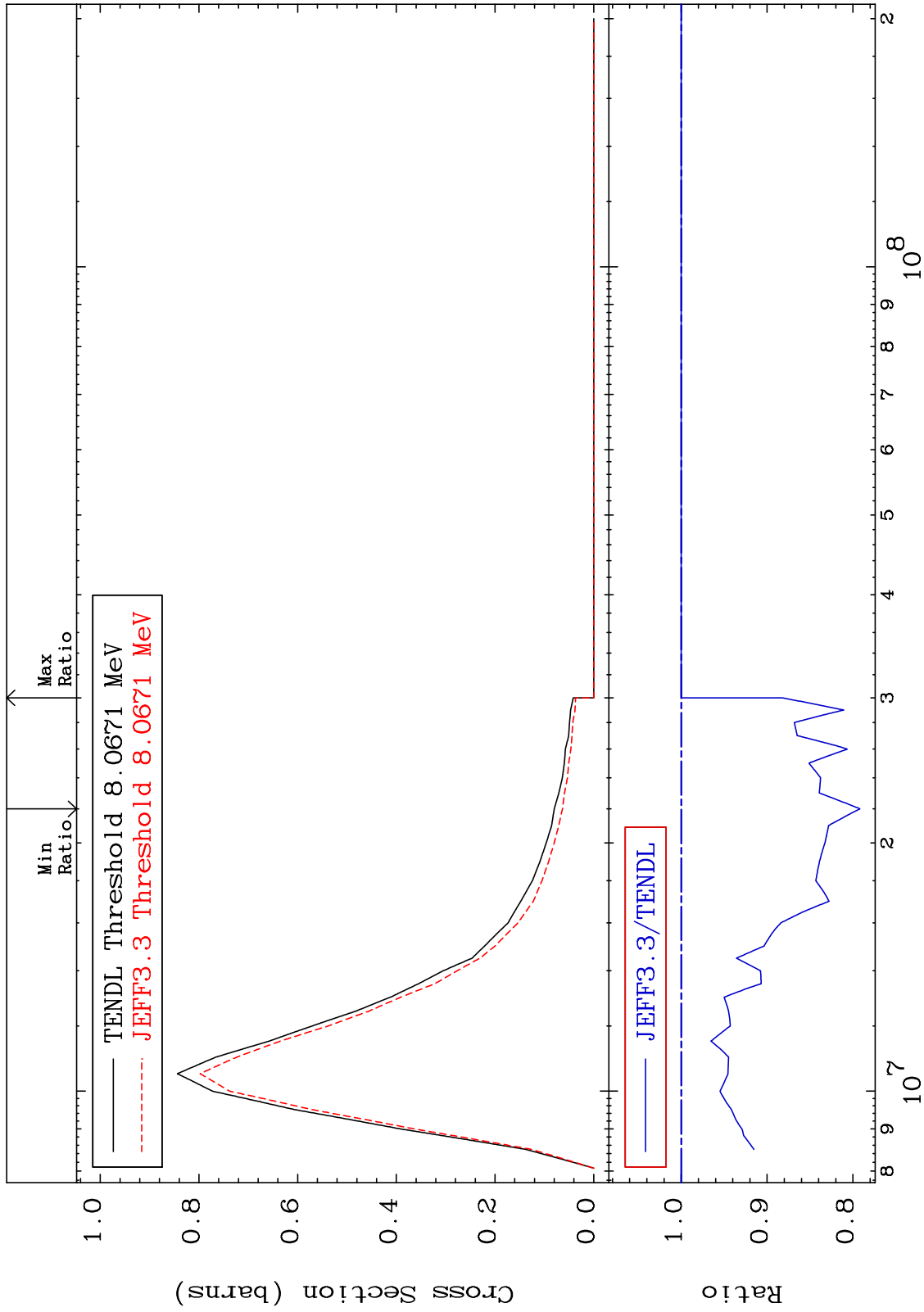




MAT 1637

(n, n') Continuum  
Cross Section

16-S -36  
-20.81 To 0.000 %



48

Incident Energy (eV)

16-S -36

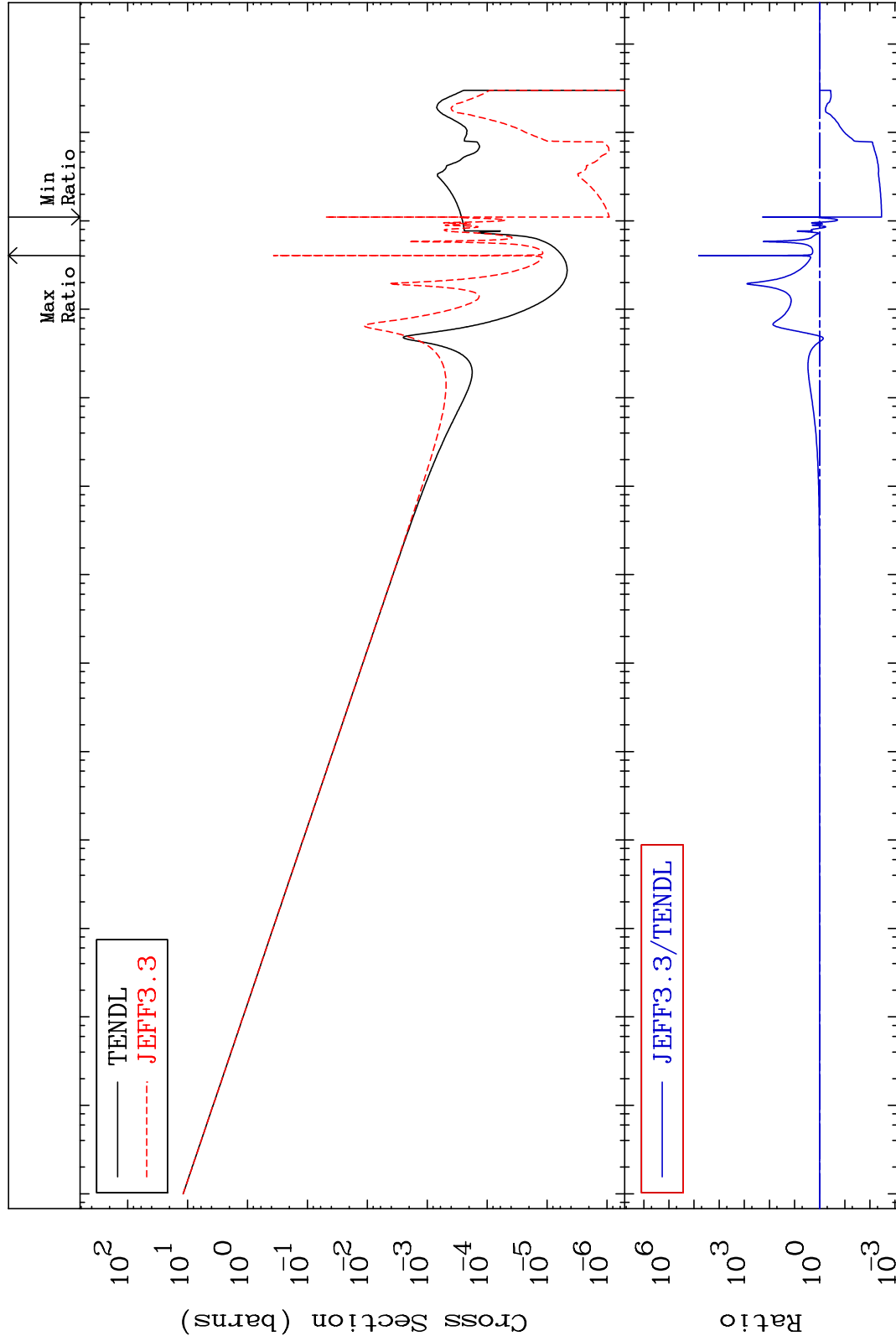
MAT 1637

(n,  $\gamma$ )

16-S -36

Cross Section

-99.66 To 9999. %



49

Incident Energy (eV)

16-S -36

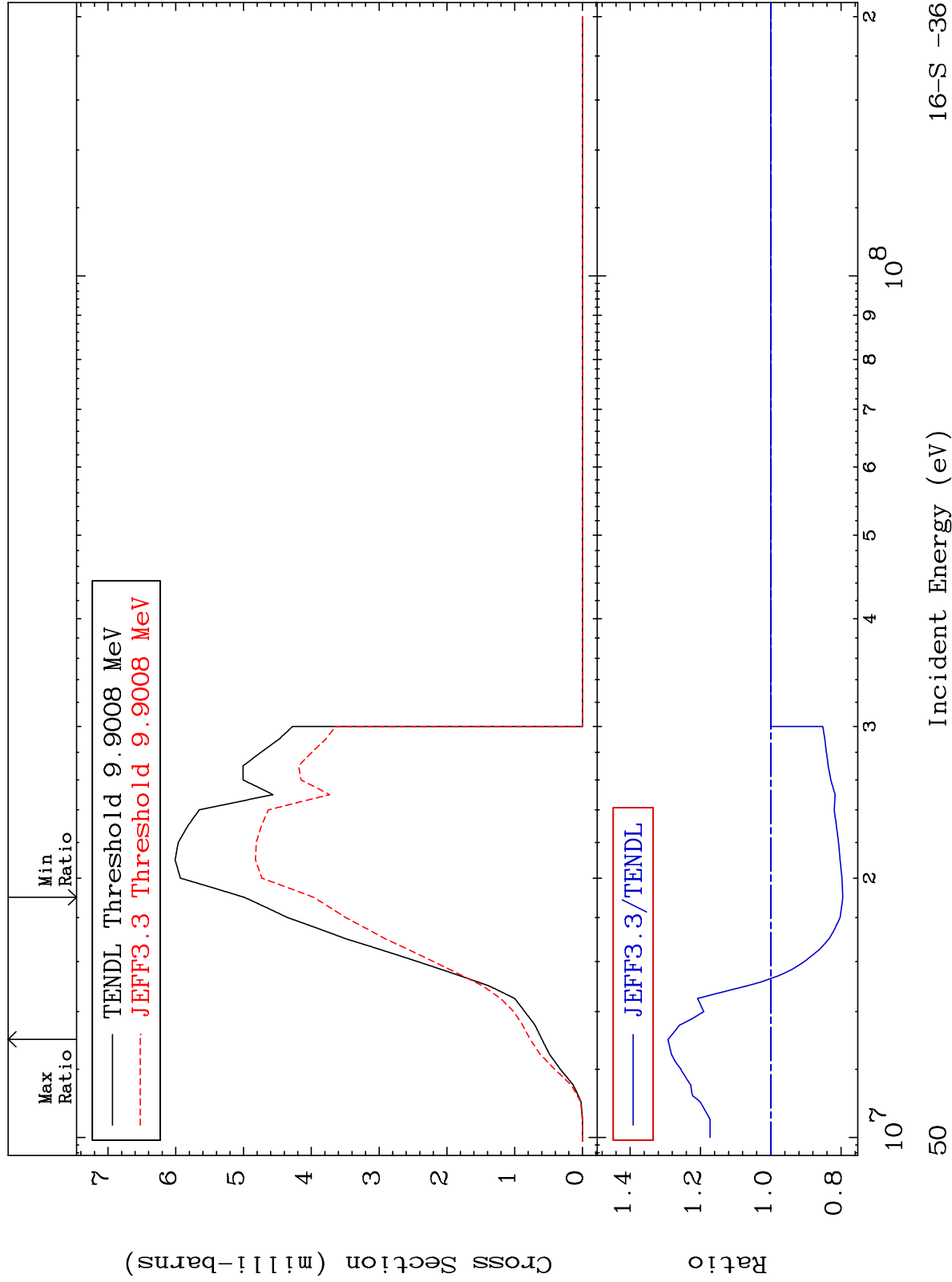
MAT 1637

(n,p)

16-S -36

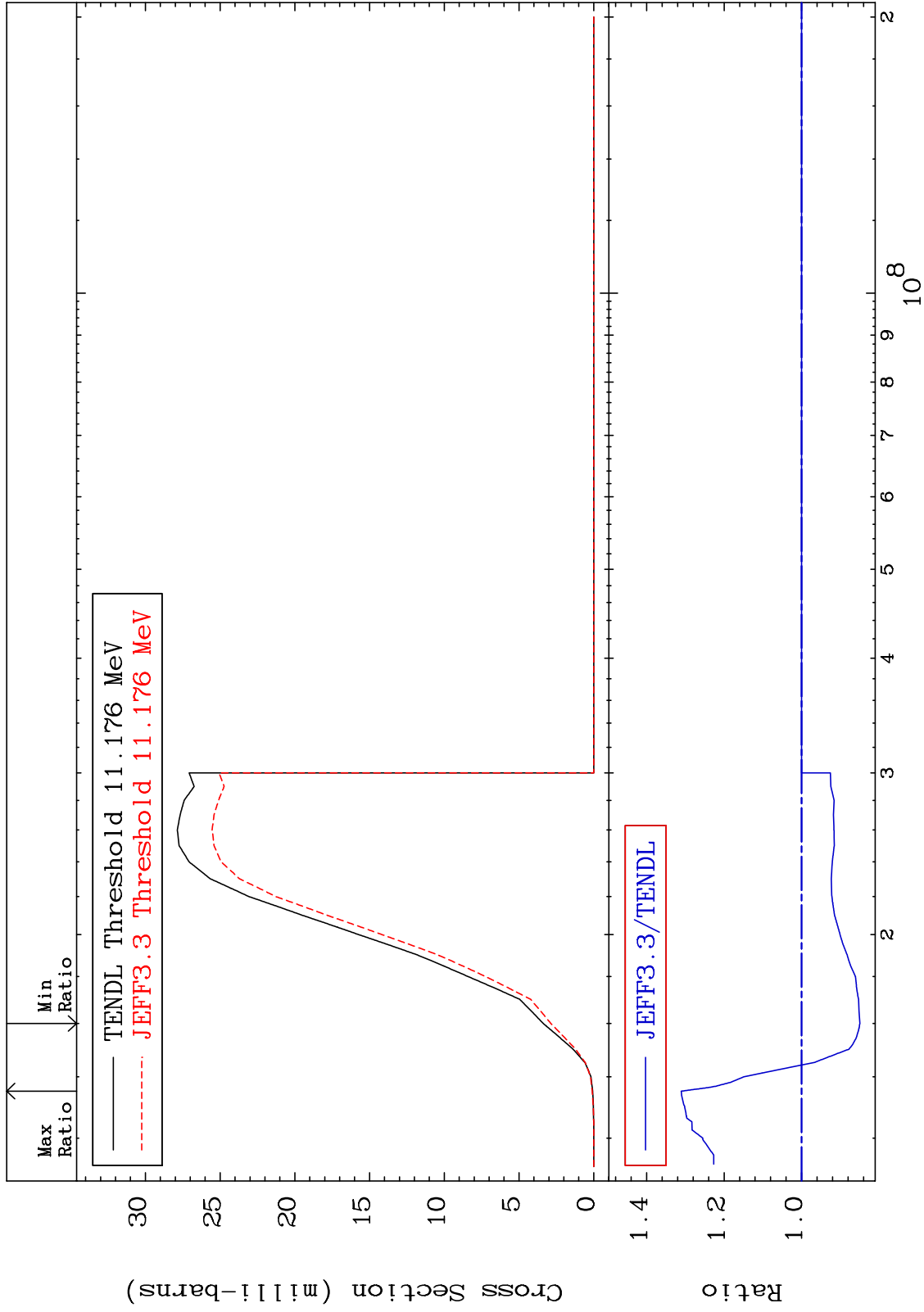
Cross Section

-20.51 To 29.23 %



Cross Section

-15.05 To 31.07 %



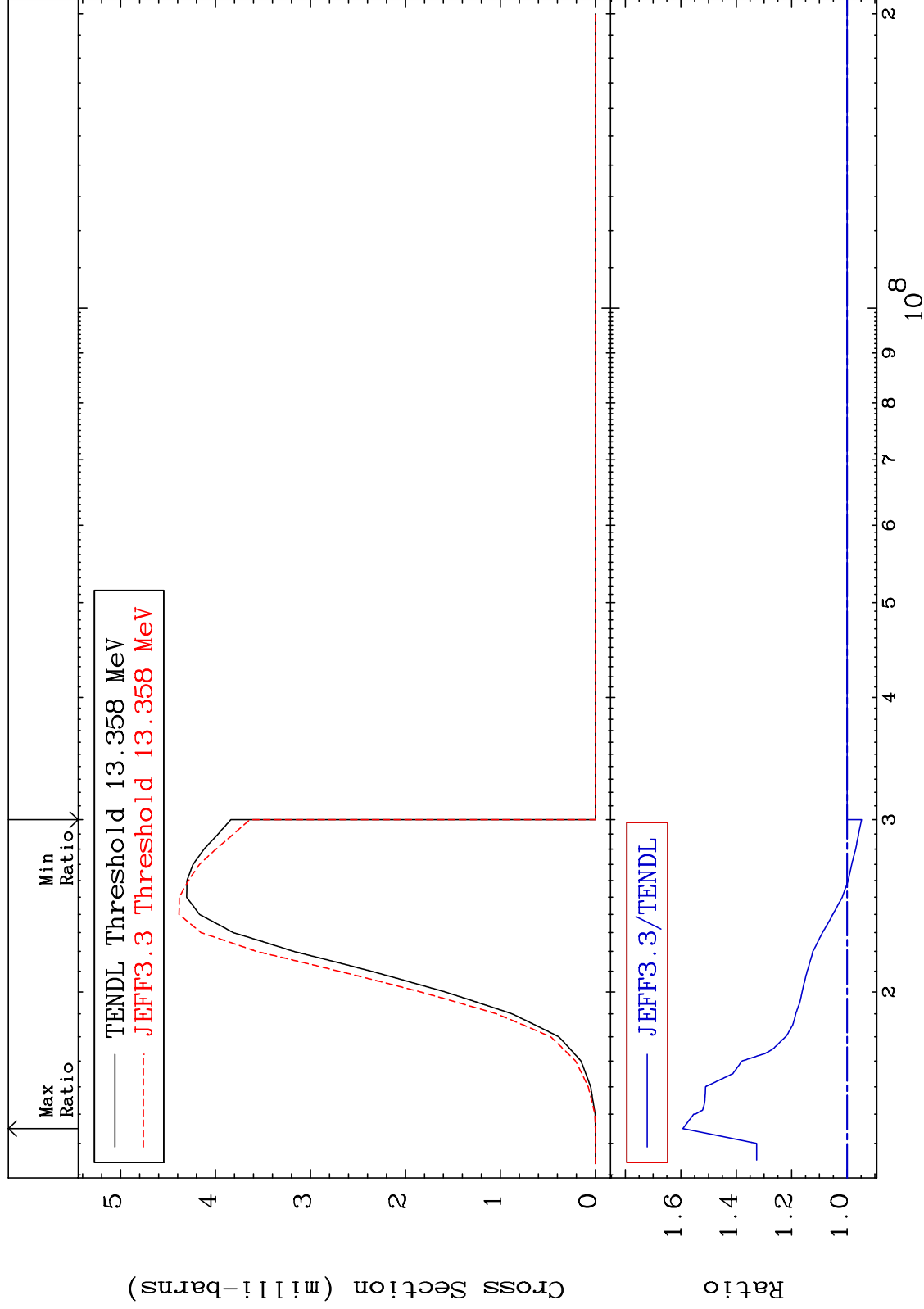
MAT 1637

(n, t)

16-S -36

Cross Section

-5.180 To 59.23 %



52

Incident Energy (eV)

16-S -36

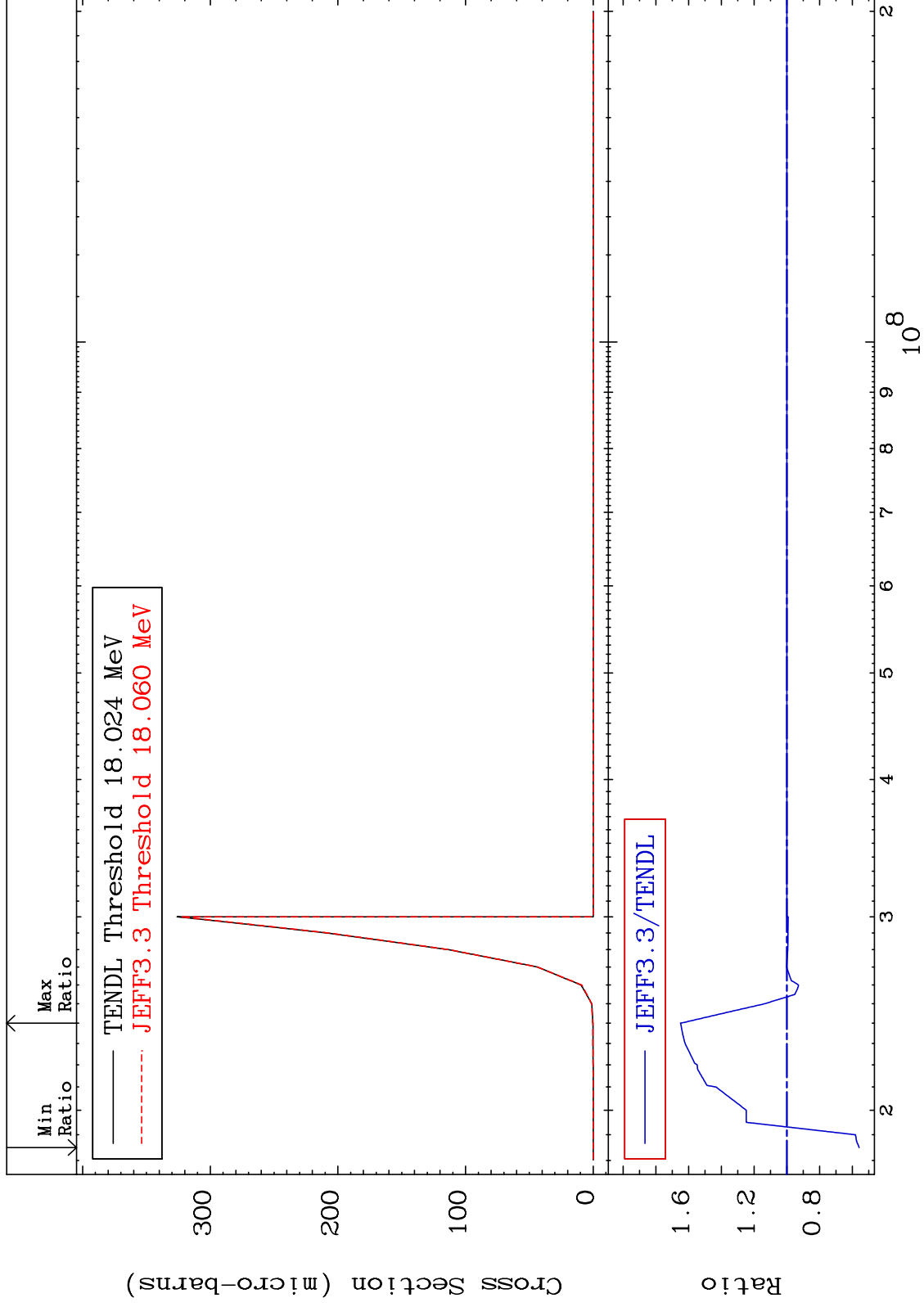
MAT 1637

(n, He-3)

16-S -36

Cross Section

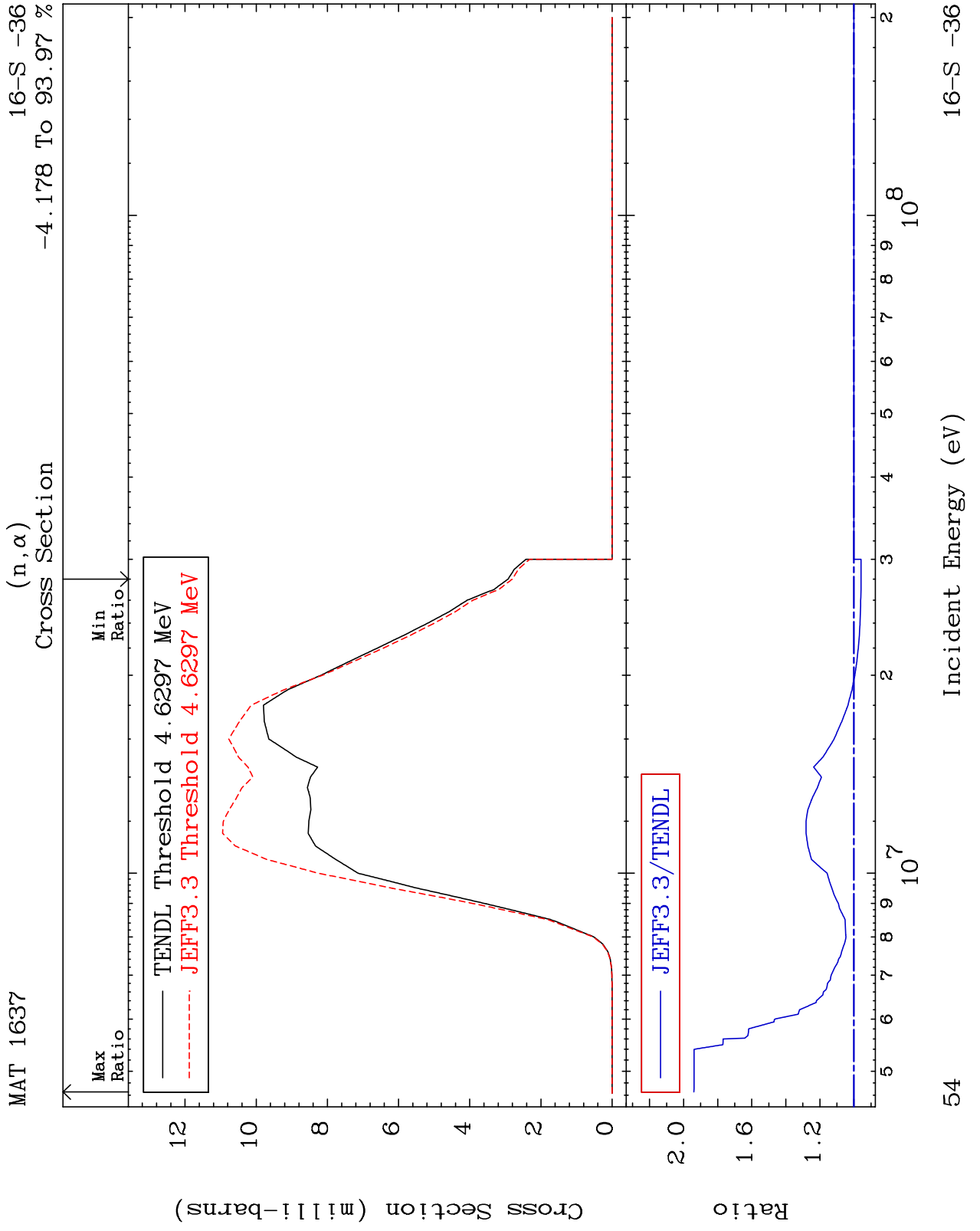
-44.16 To 64.89 %



53

Incident Energy (eV)

16-S -36



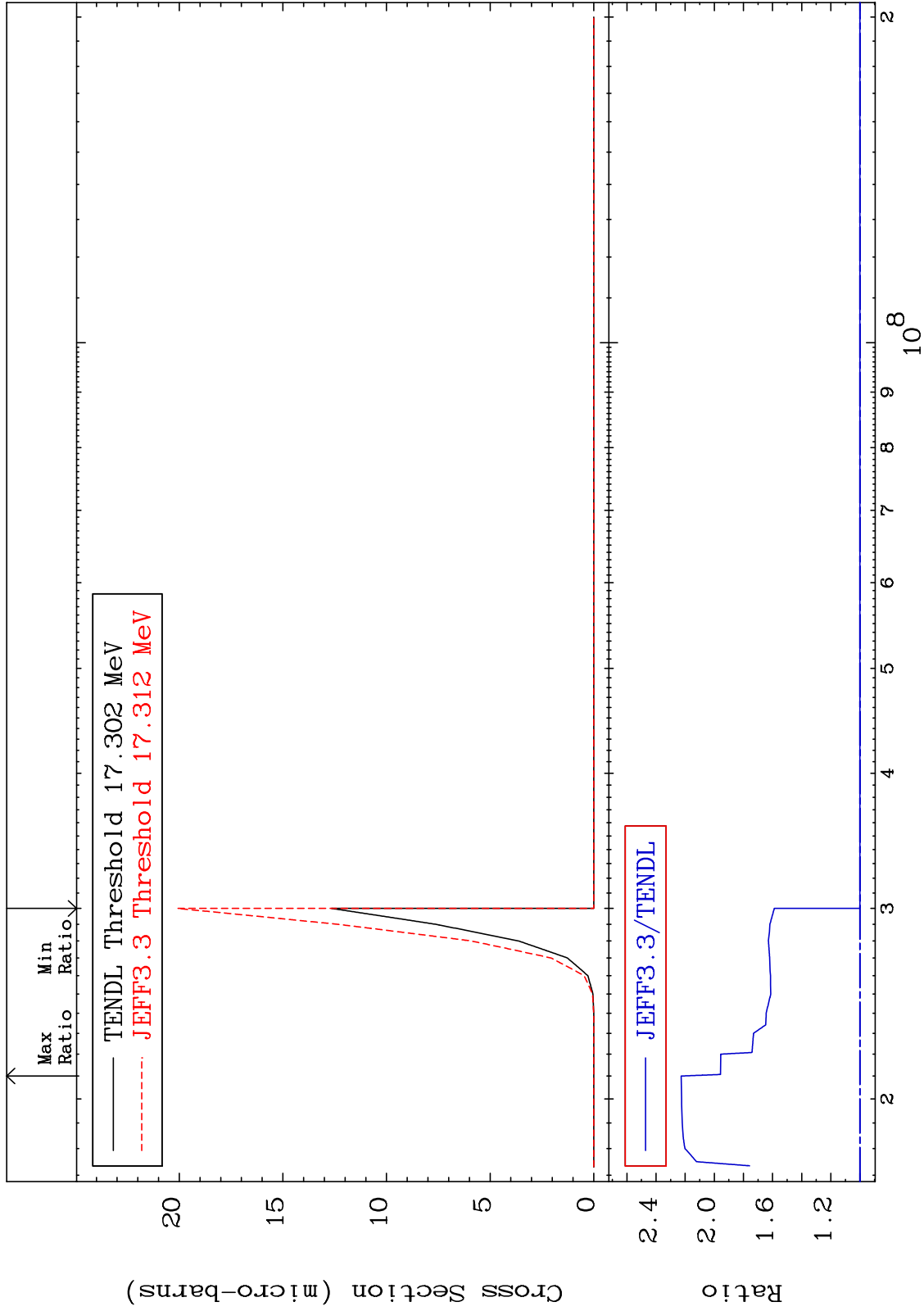
MAT 1637

(n,2α)

16-S -36

Cross Section

0.000 To 122.7 %



55

Incident Energy (eV)

16-S -36



MAT 1637

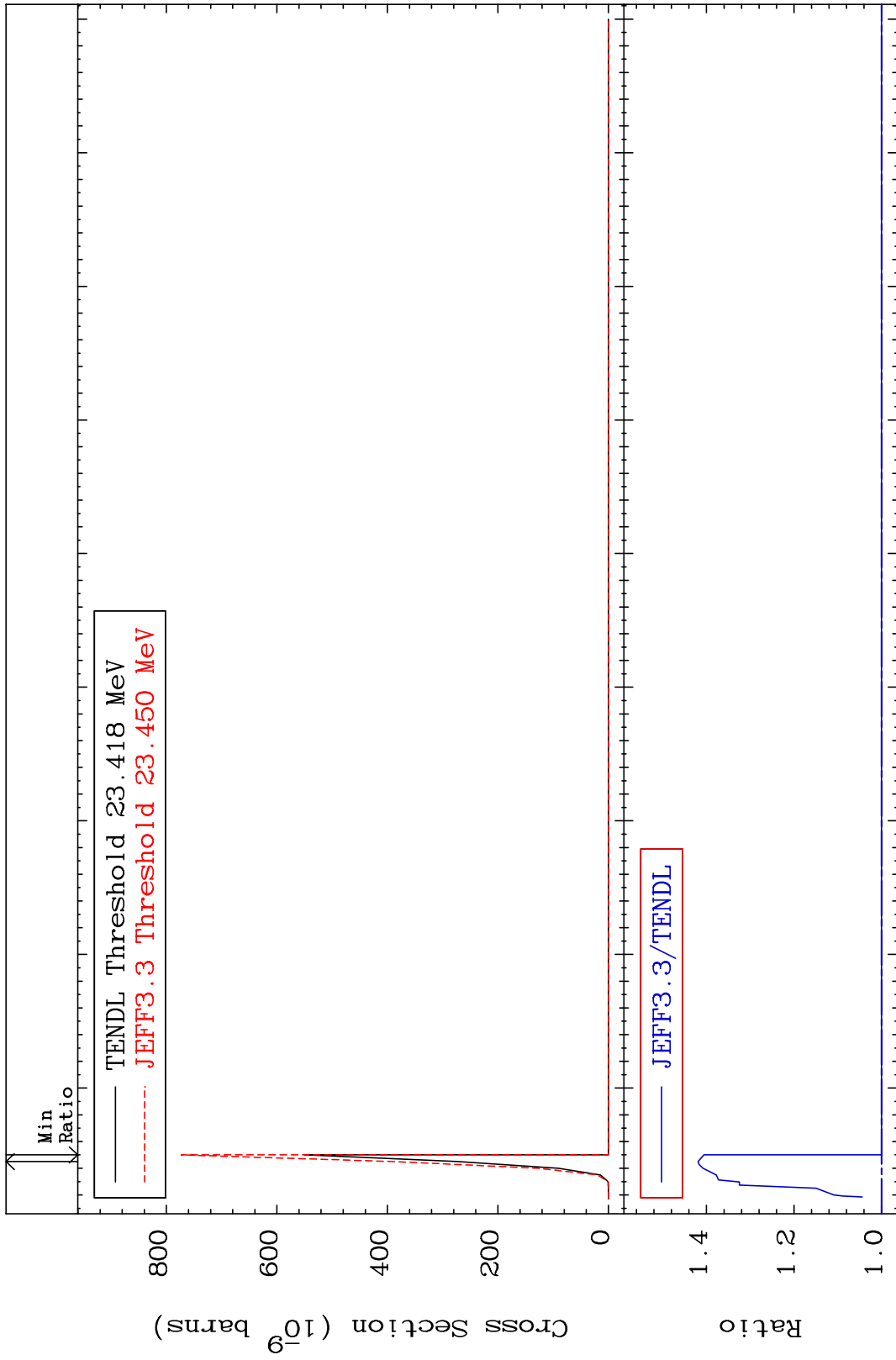
(n,2p)

16-S -36

Cross Section

0.000

To 41.90 %



56

Incident Energy (MeV)

16-S -36

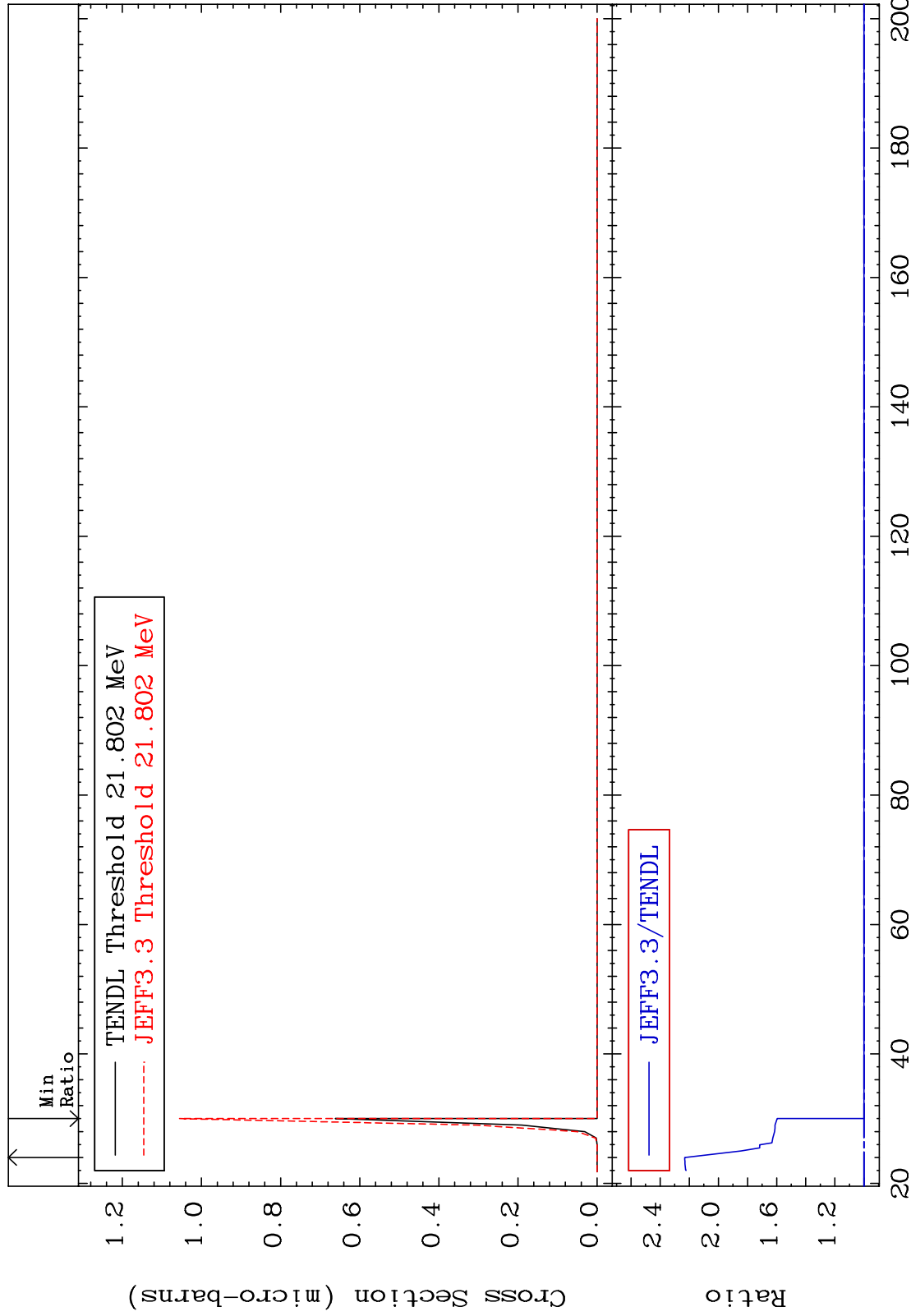
MAT 1637

(n,p)  $\alpha$

16-S -36

Cross Section

0.000 To 123.1 %



16-S -36

Incident Energy (MeV)

57

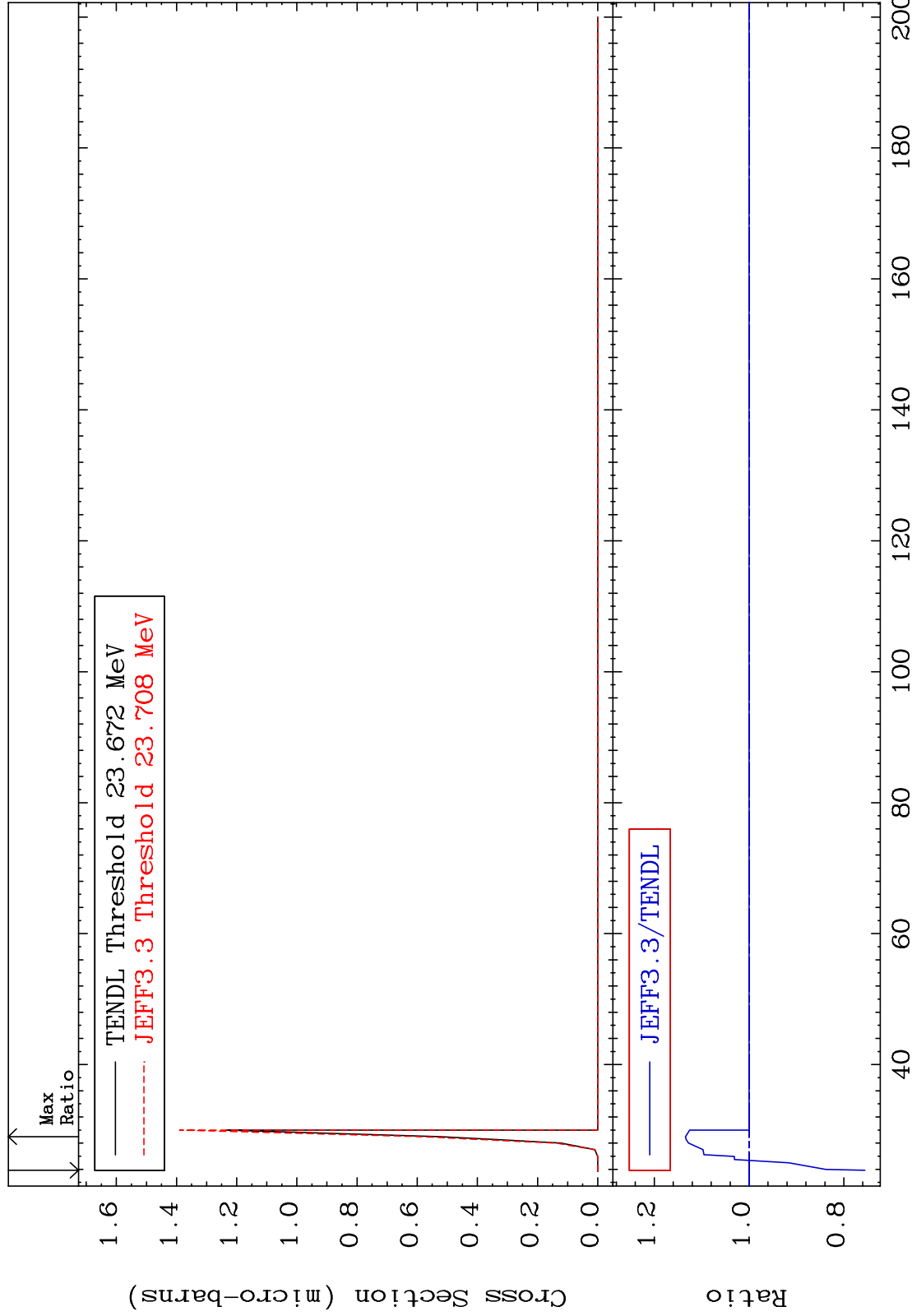
MAT 1637

(n,p) d

16-S -36

Cross Section

-24.45 To 13.41 %



58

Incident Energy (MeV)

16-S -36

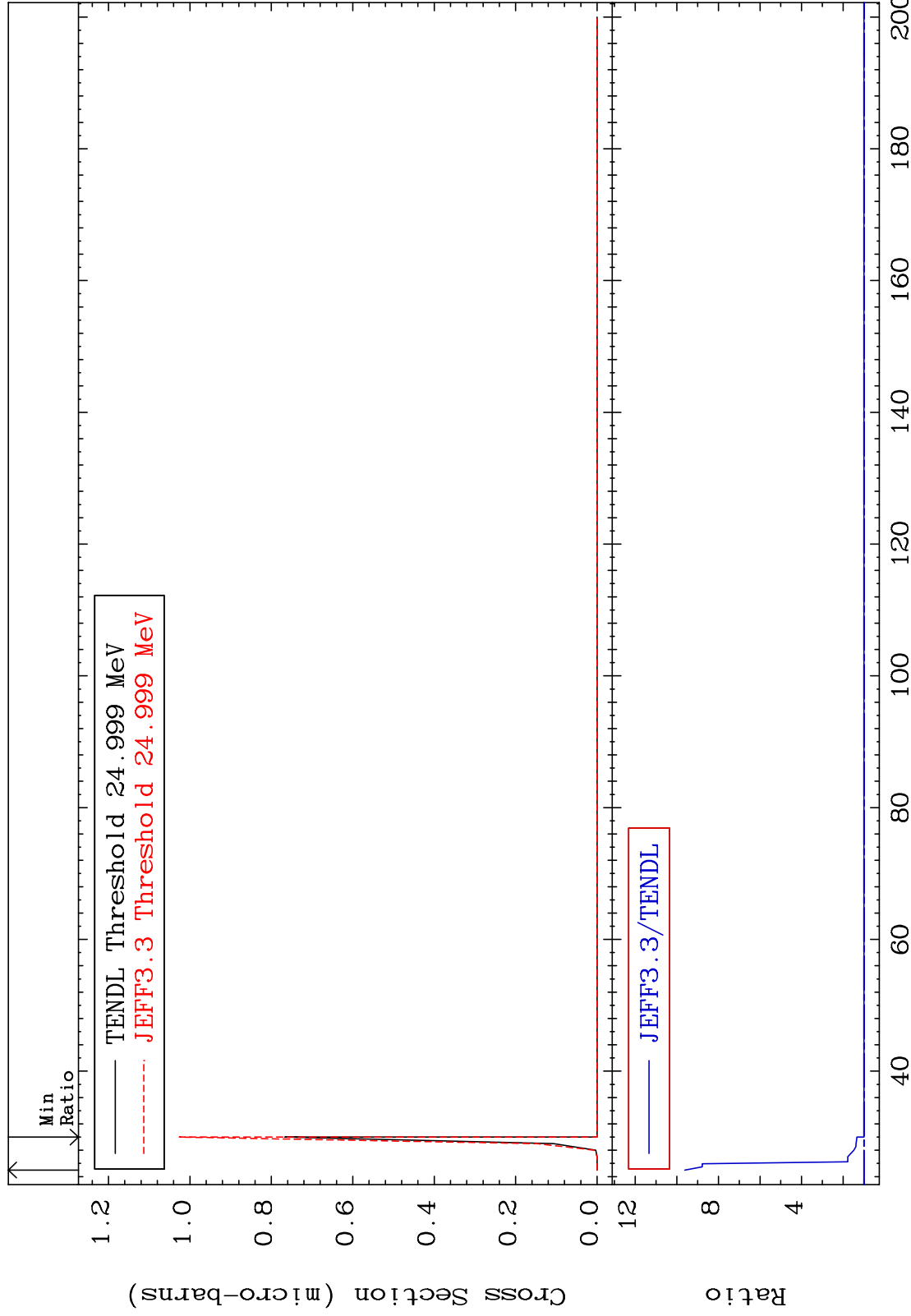
MAT 1637

(n,p) t

16-S -36

Cross Section

0.000 To 861.5 %



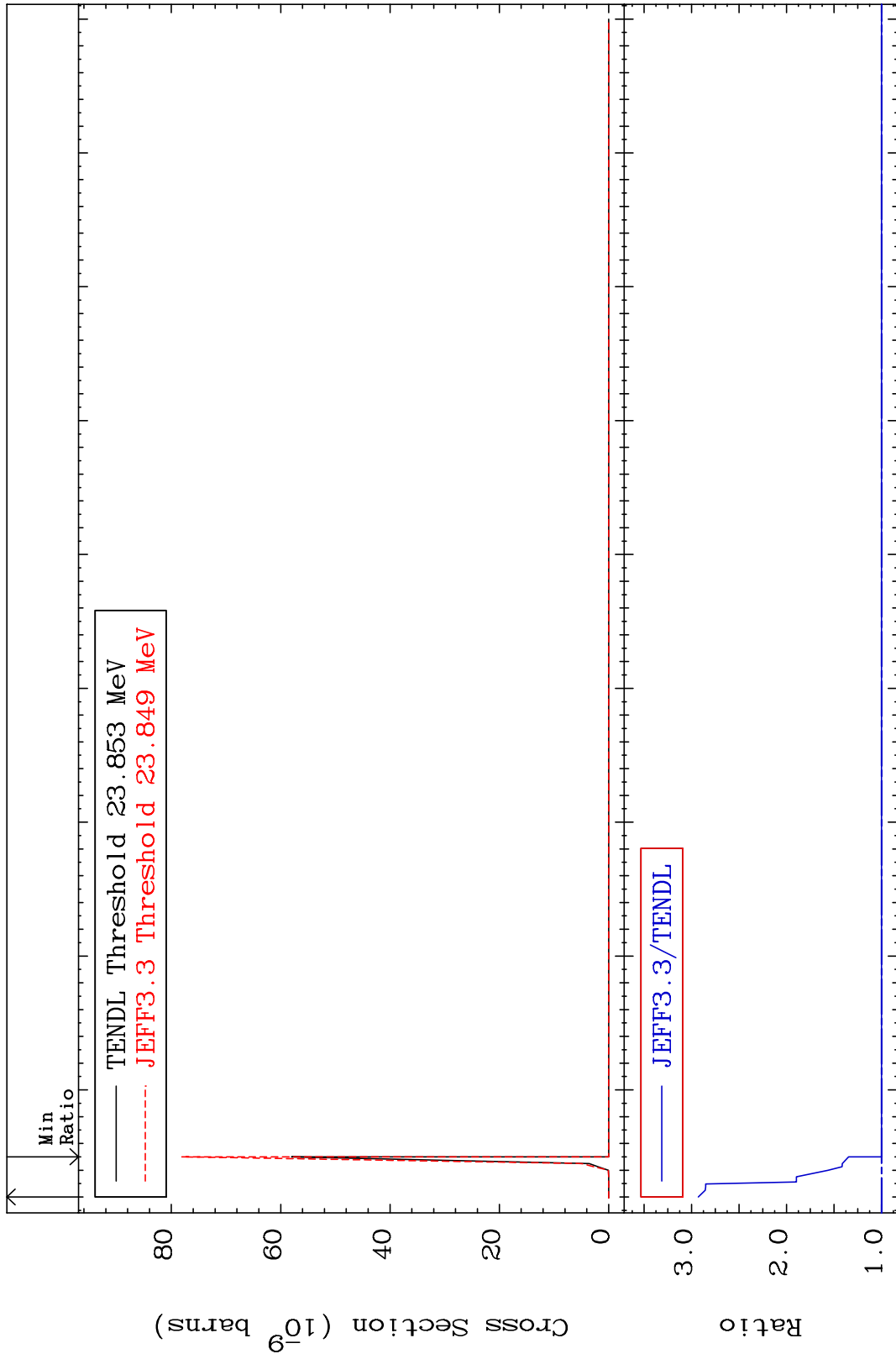
MAT 1637

(n,d)  $\alpha$

16-S -36

Cross Section

0.000 To 192.8 %



16-S -36

Incident Energy (MeV)

0.000 To 192.8 %

60

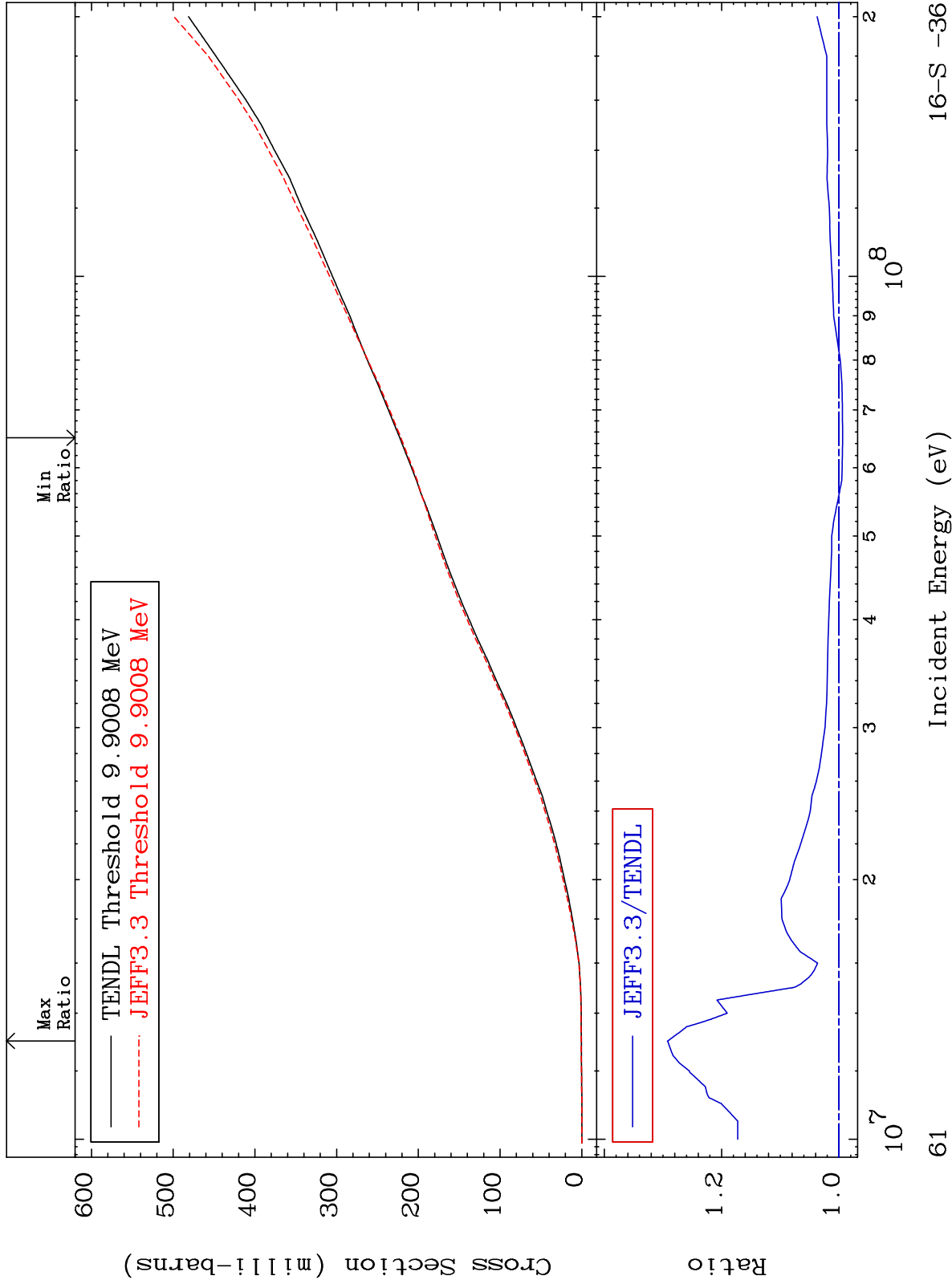
Incident Energy (MeV)

16-S -36

MAT 1637

Hydrogen Production  
Cross Section

16-S -36  
-0.622 To 29.23 %



61

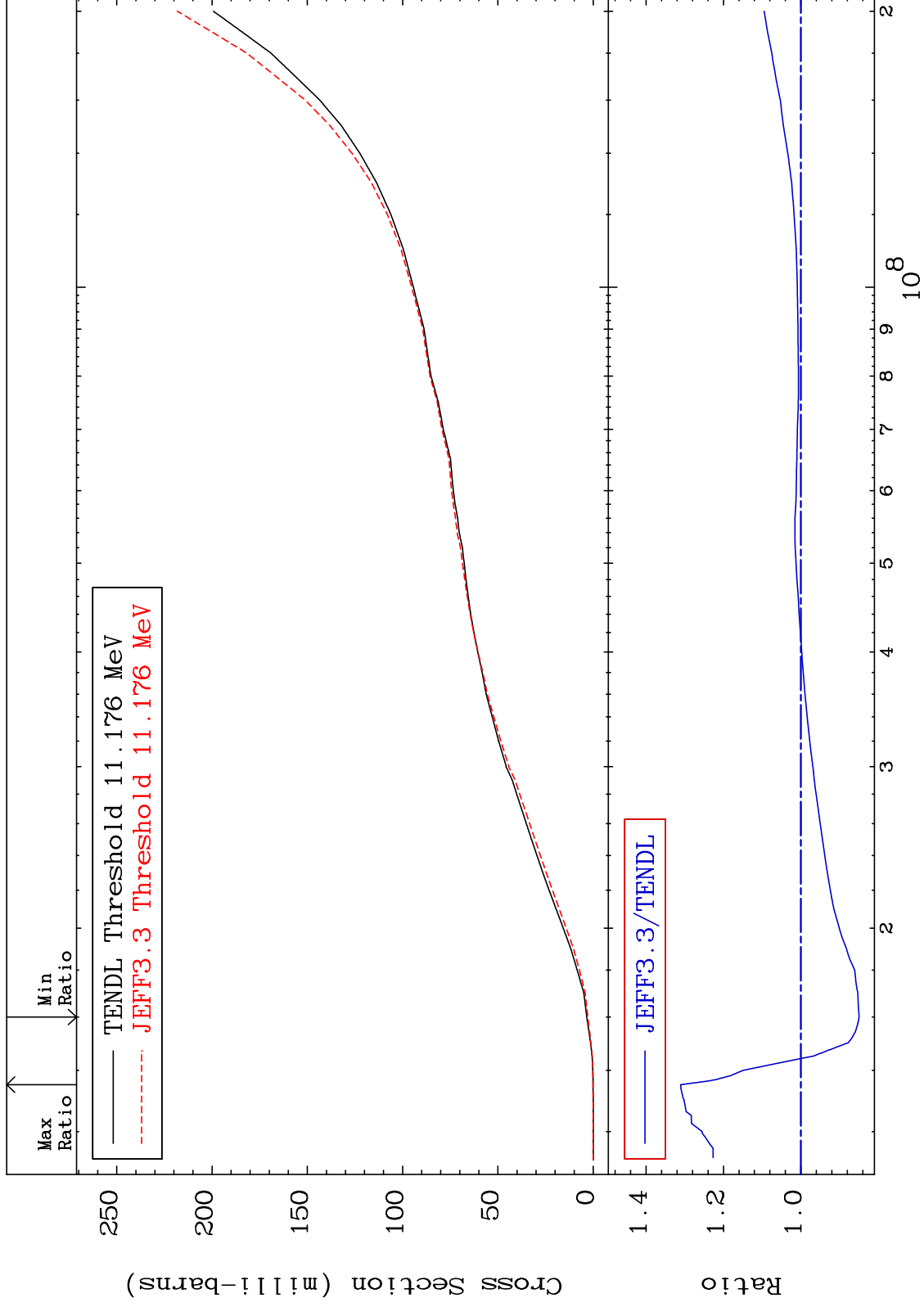
Incident Energy (eV)

16-S -36

MAT 1637

Deuterium Production  
Cross Section

16-S -36  
-15.05 To 31.07 %



62

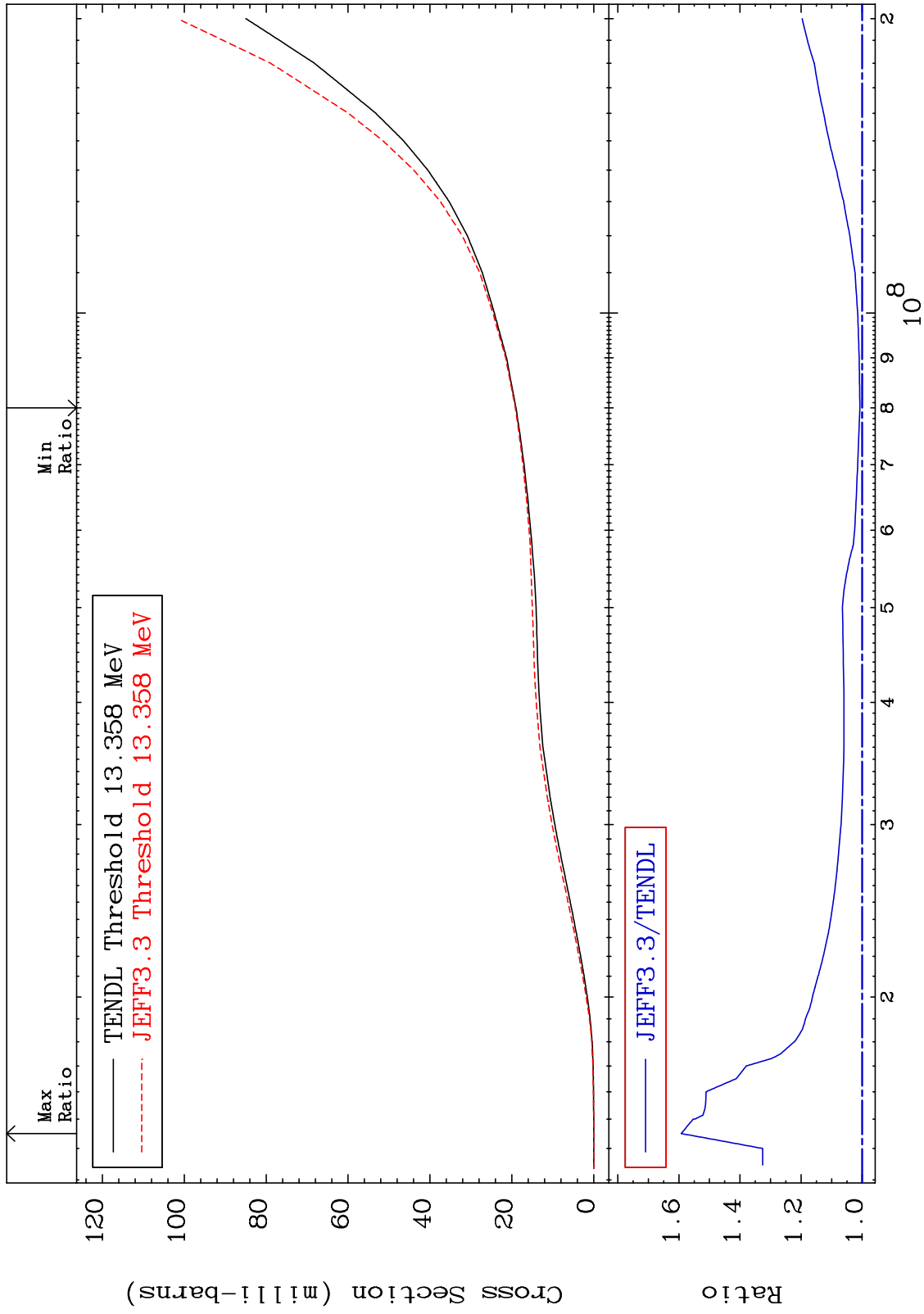
Incident Energy (eV)

16-S -36

MAT 1637

Tritium Production  
Cross Section

16-S -36  
0.735 To 59.23 %



63

Incident Energy (eV)

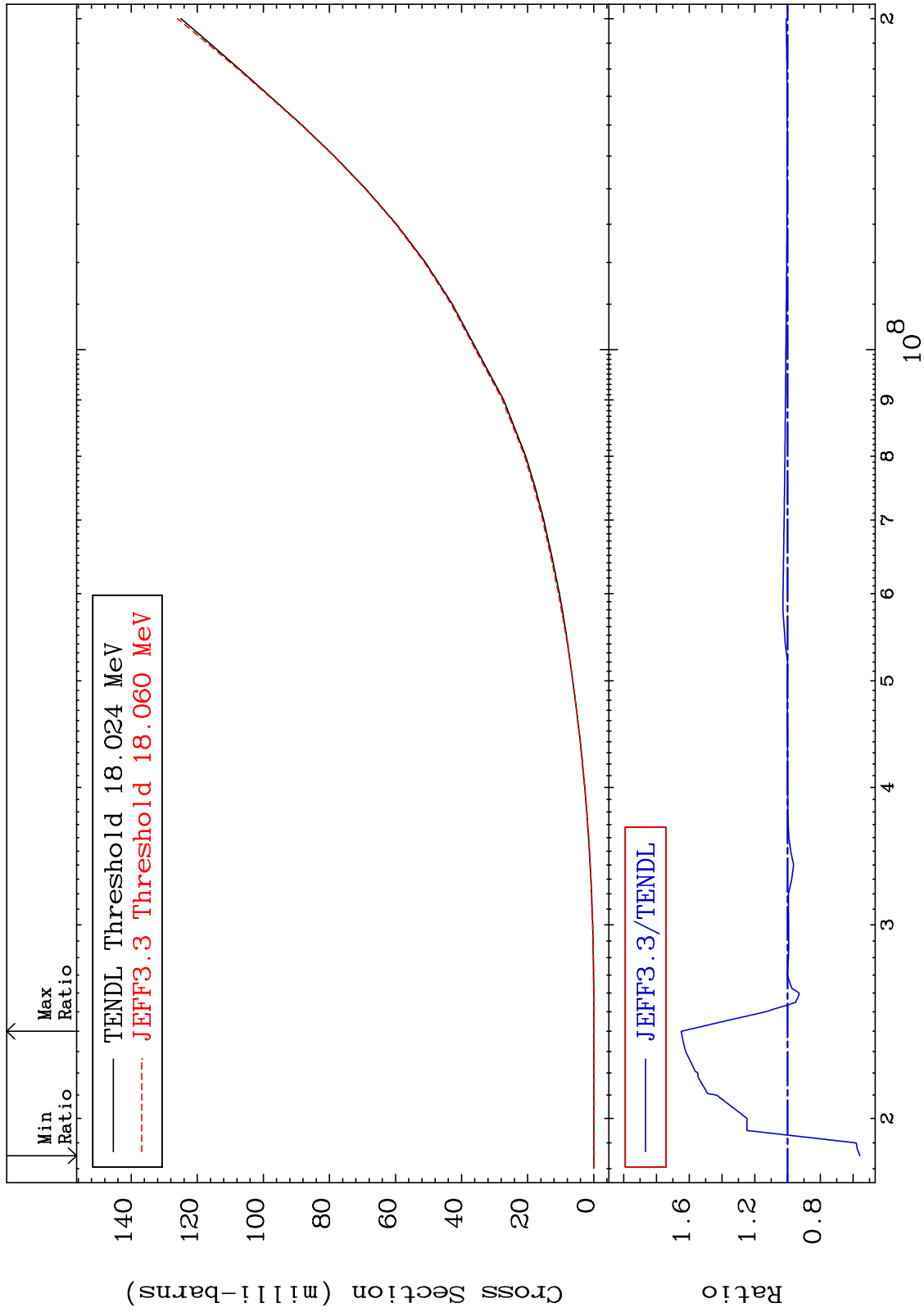
16-S -36



MAT 1637

He-3 Production  
Cross Section

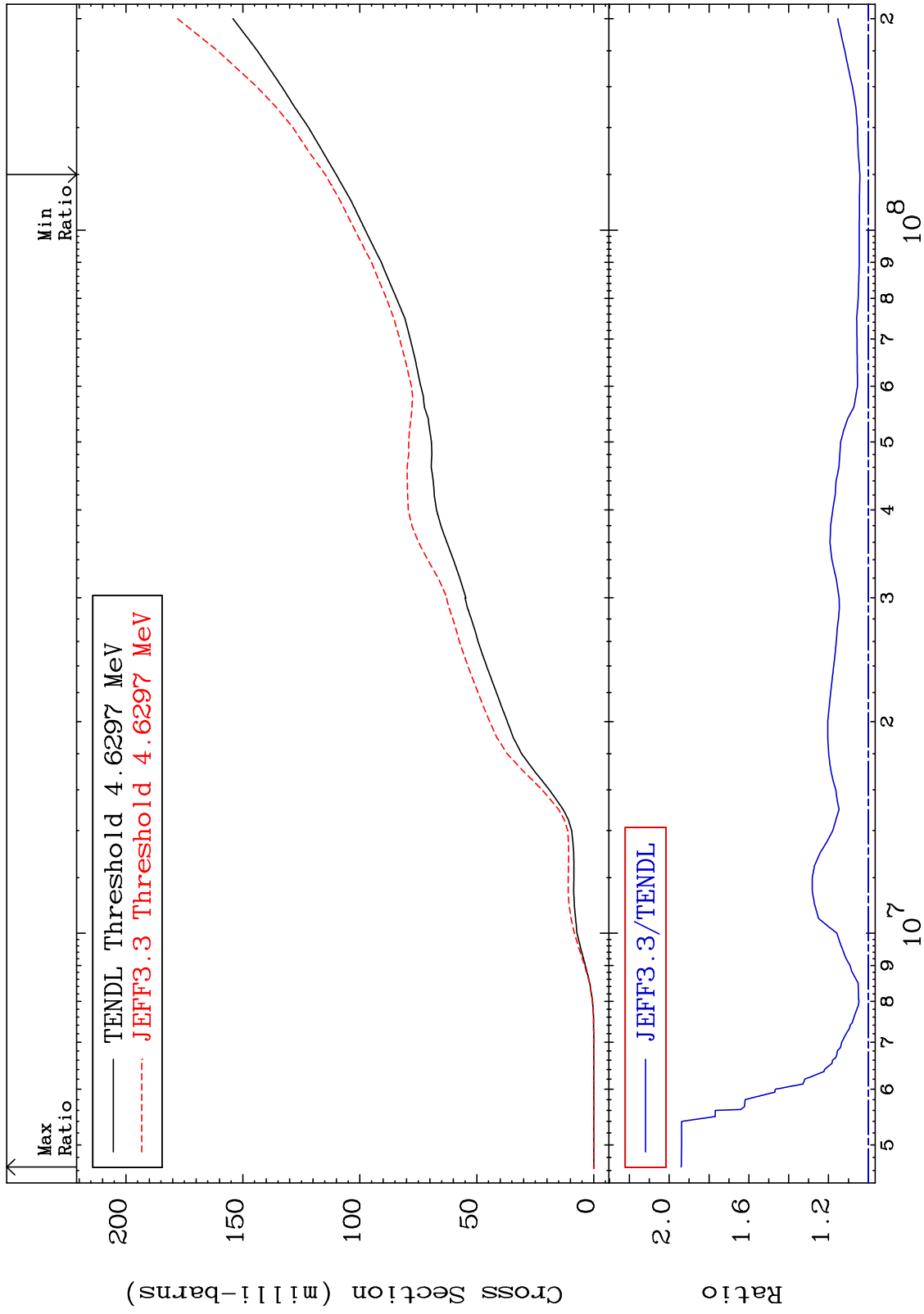
16-S -36  
-44.16 To 64.89 %



MAT 1637

He-4 Production  
Cross Section

16-S -36  
4.225 To 93.97 %



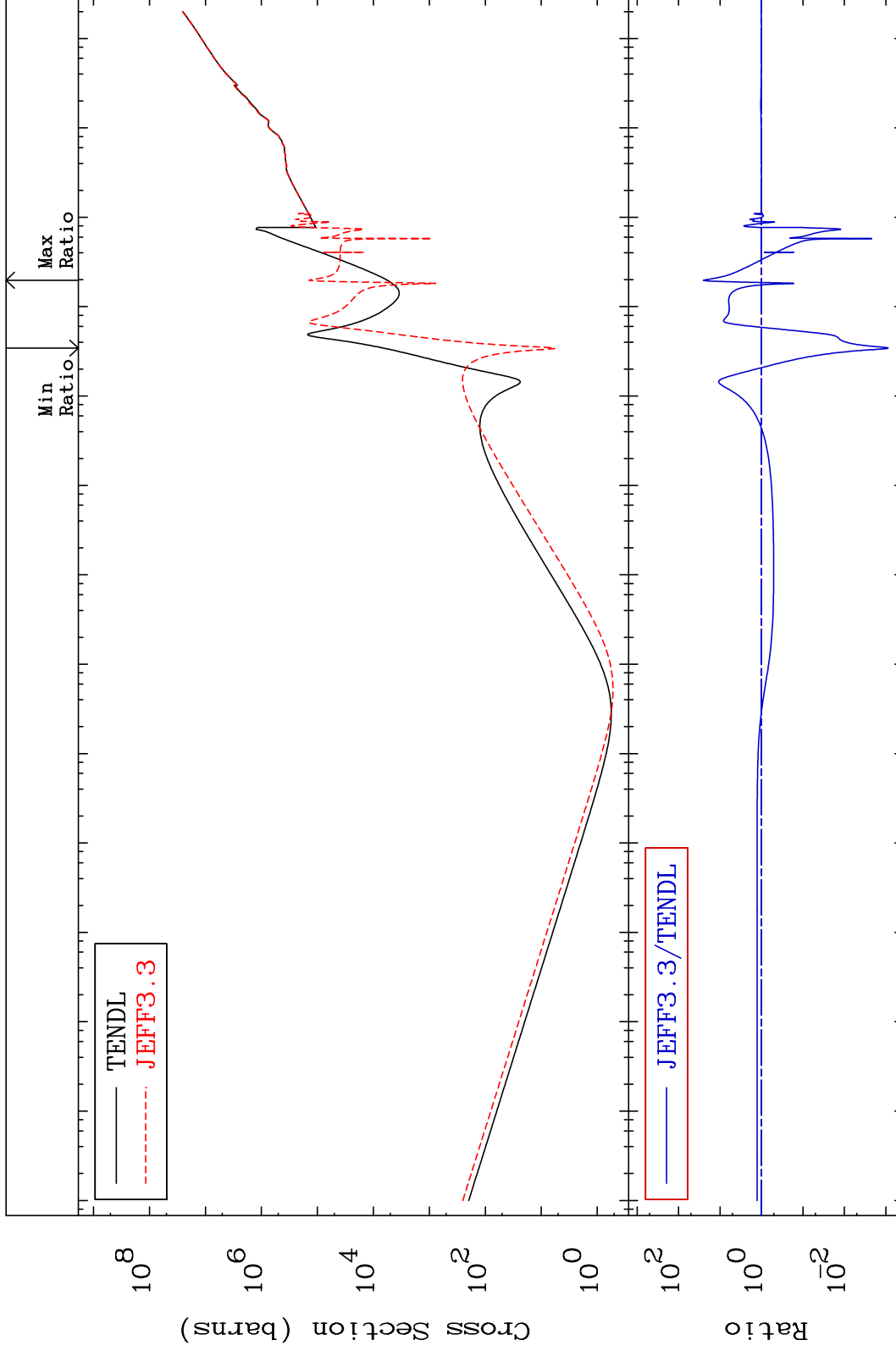
65

16-S -36

MAT 1637

Kerma total (eV-barns)  
Cross Section

16-S -36  
-99.91 To 2409. %



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

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>

Ratio

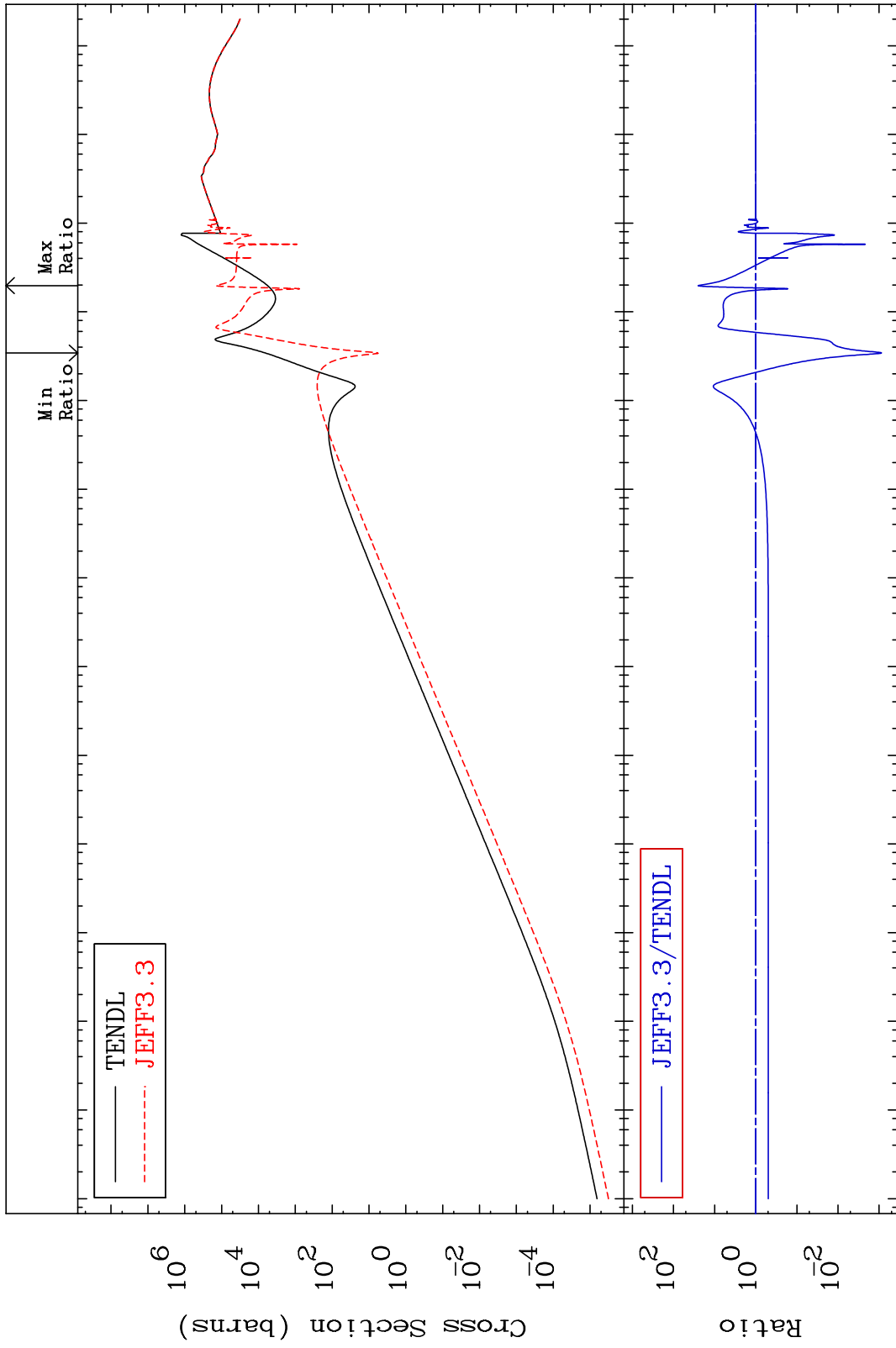
Incident Energy (eV)

16-S -36

MAT 1637

Kerma elastic  
Cross Section

16-S -36  
-99.91 To 2409. %



67

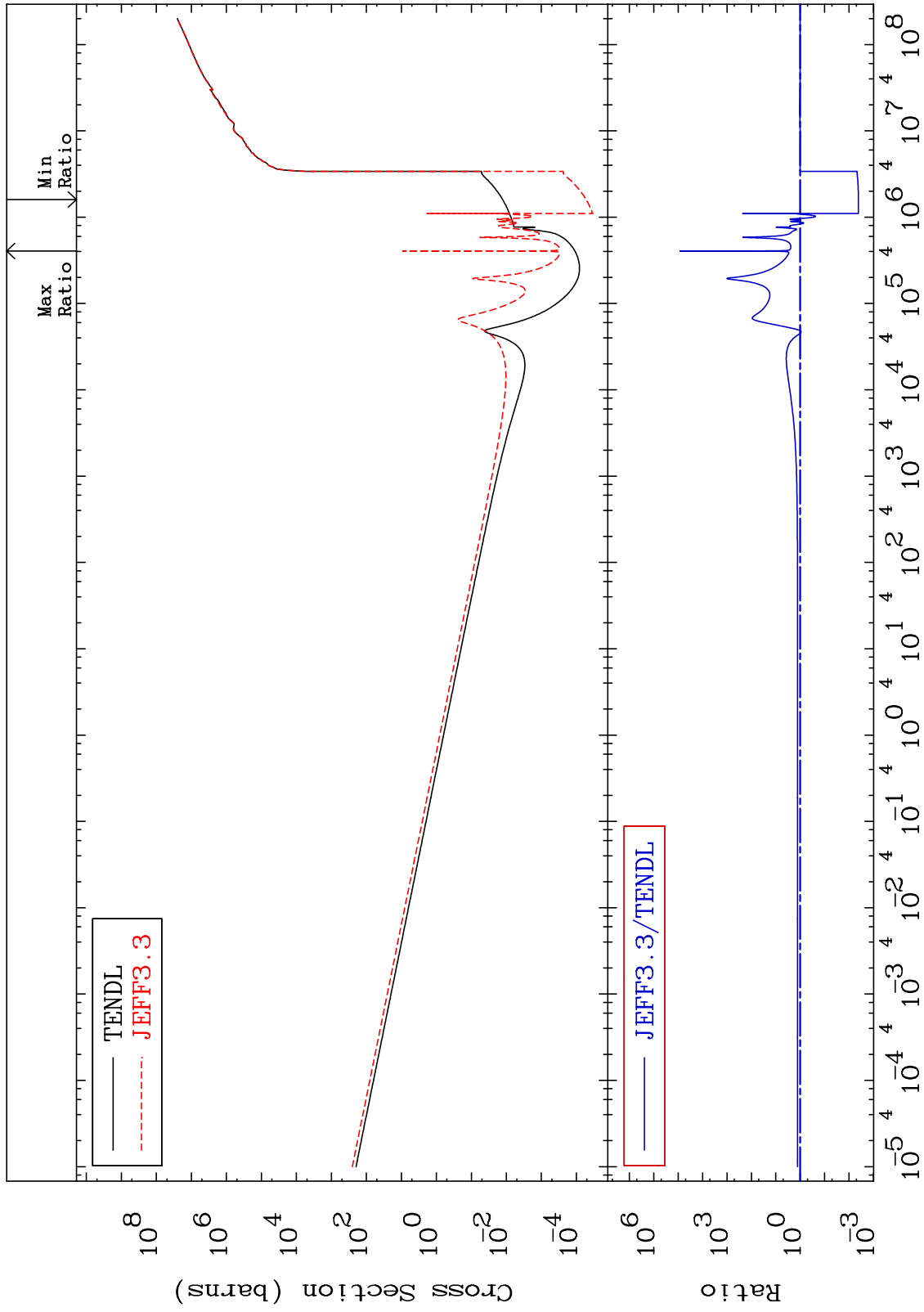
Incident Energy (eV)

16-S -36

MAT 1637

Kerma non-elastic (all but mt2)  
Cross Section

16-S -36  
-99.59 To 9999. %



68

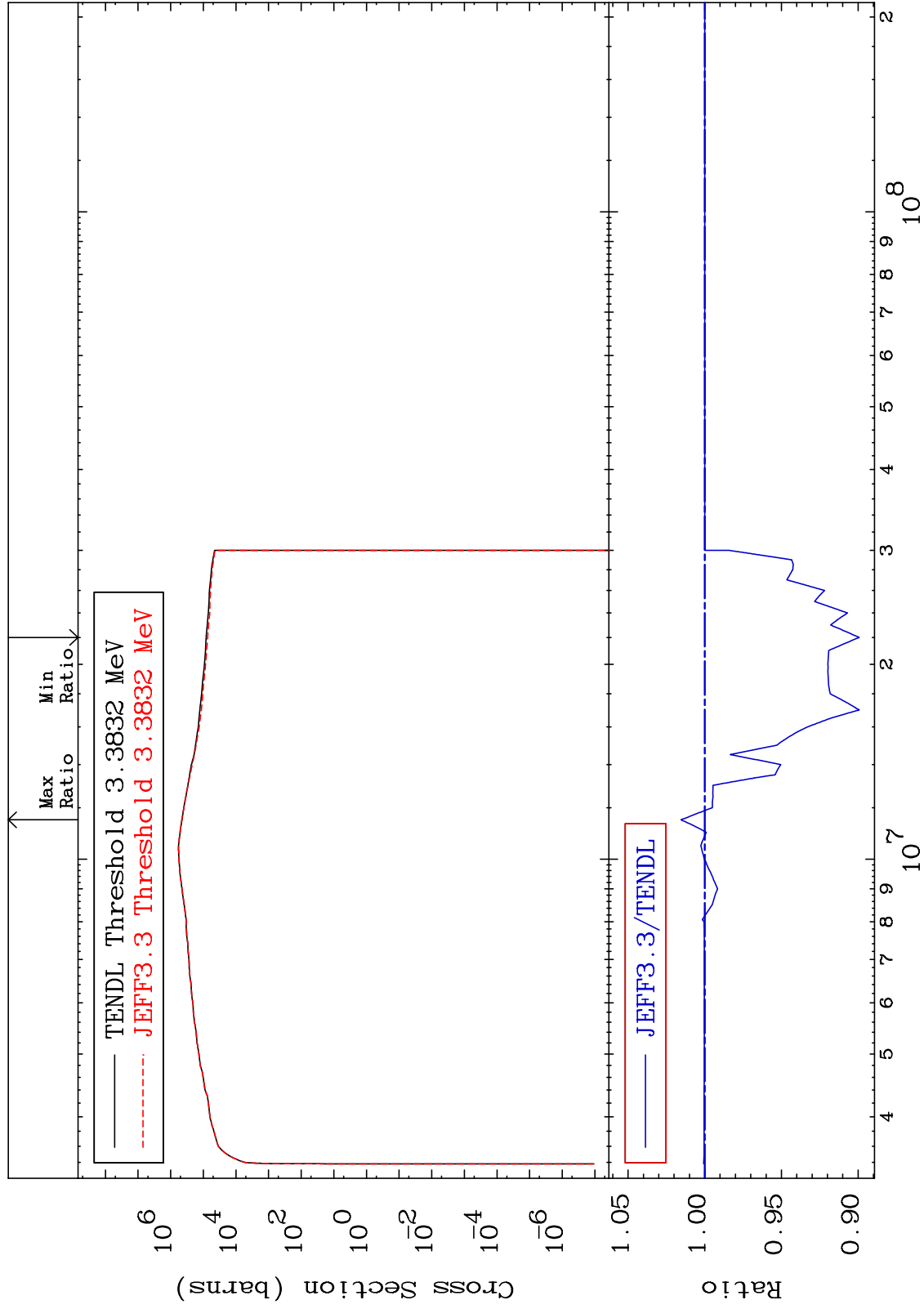
Incident Energy (eV)

16-S -36

MAT 1637

Kerma inelastic (mt51-91)  
Cross Section

16-S -36  
-10.08 To 1.547 %



69

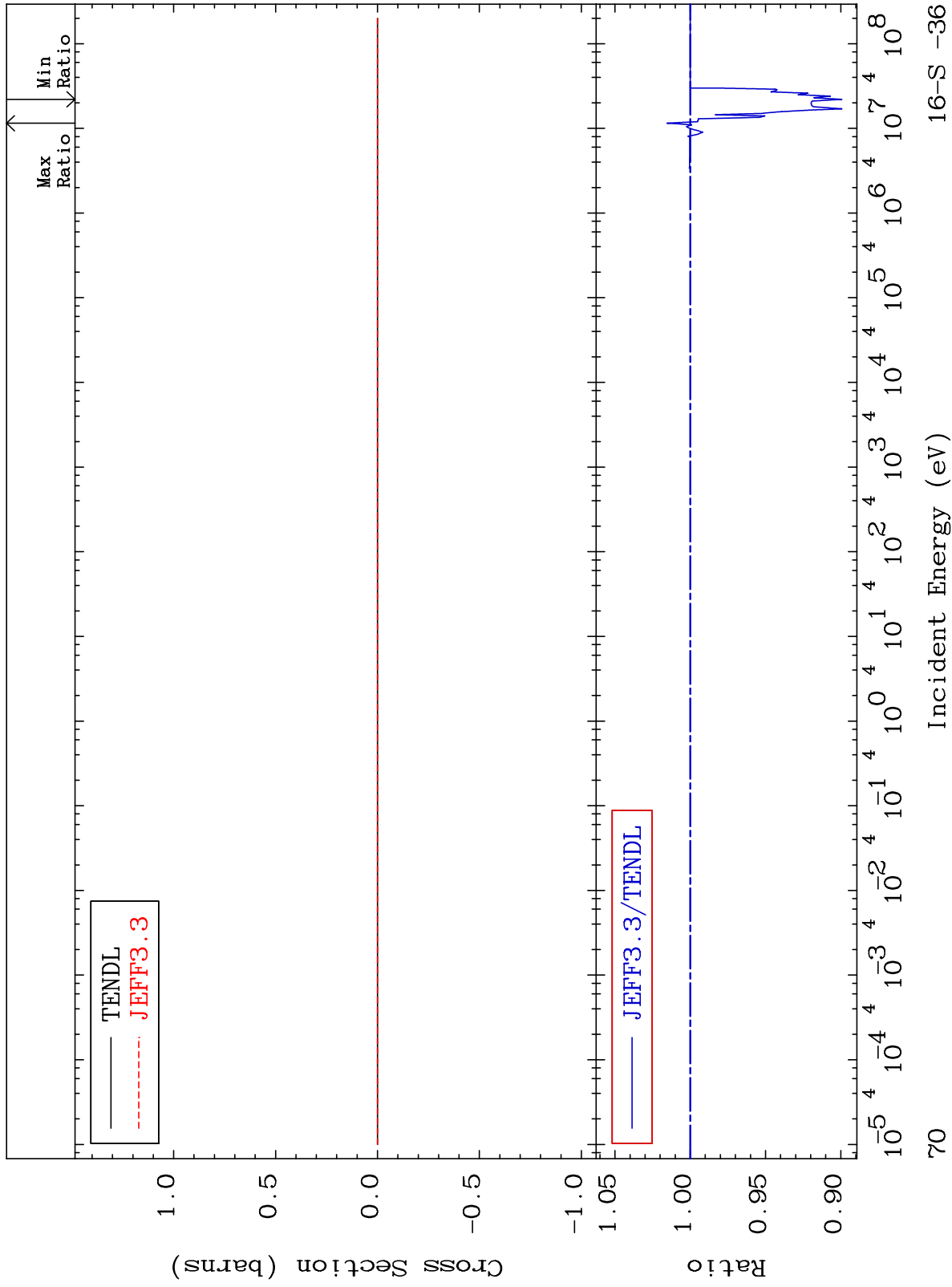
Incident Energy (eV)

16-S -36

MAT 1637

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

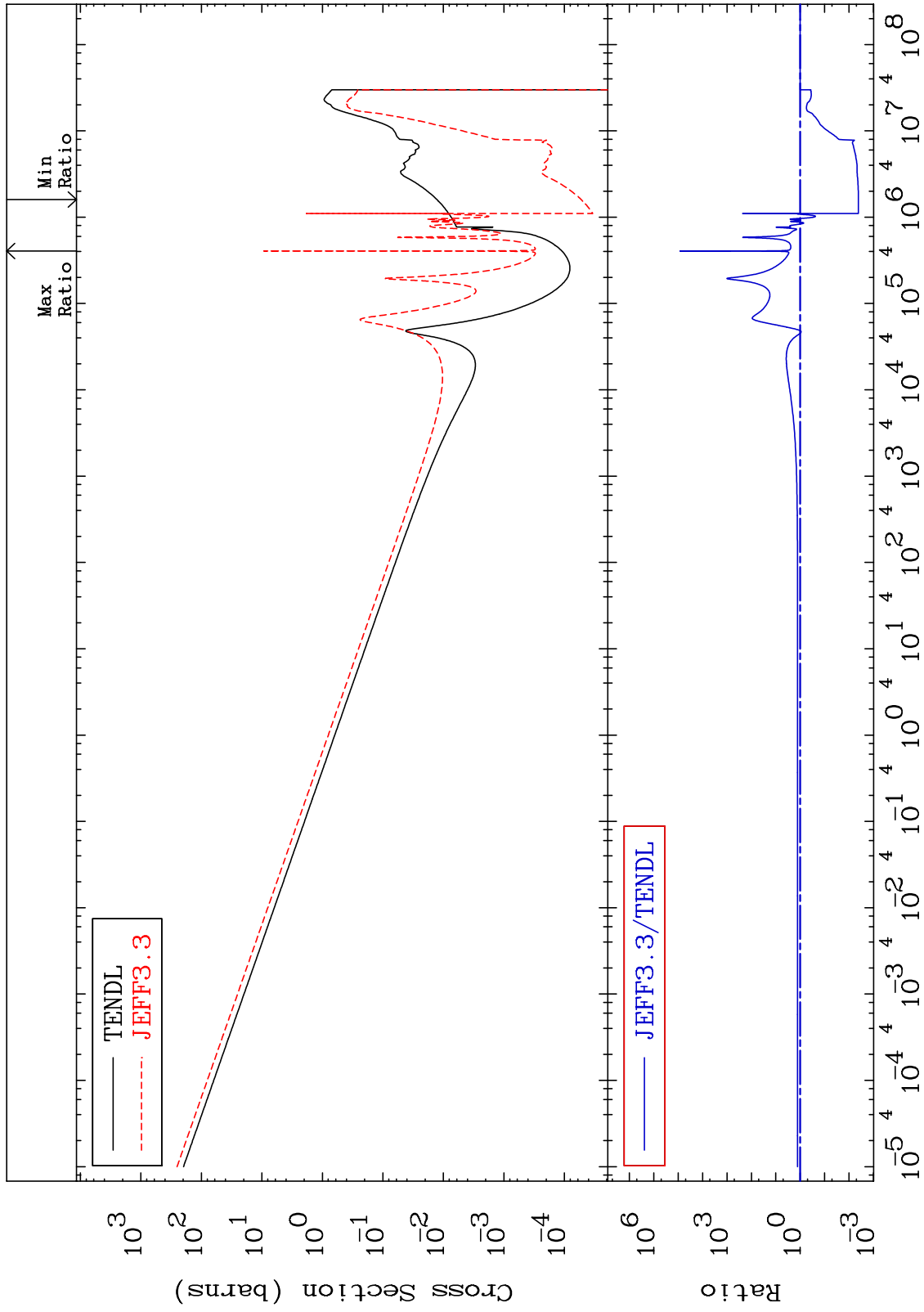
16-S -36  
-10.08 To 1.547 %



MAT 1637

Kerma capture (mt102)  
Cross Section

16-S -36  
-99.59 To 9999. %



71

Incident Energy (eV)

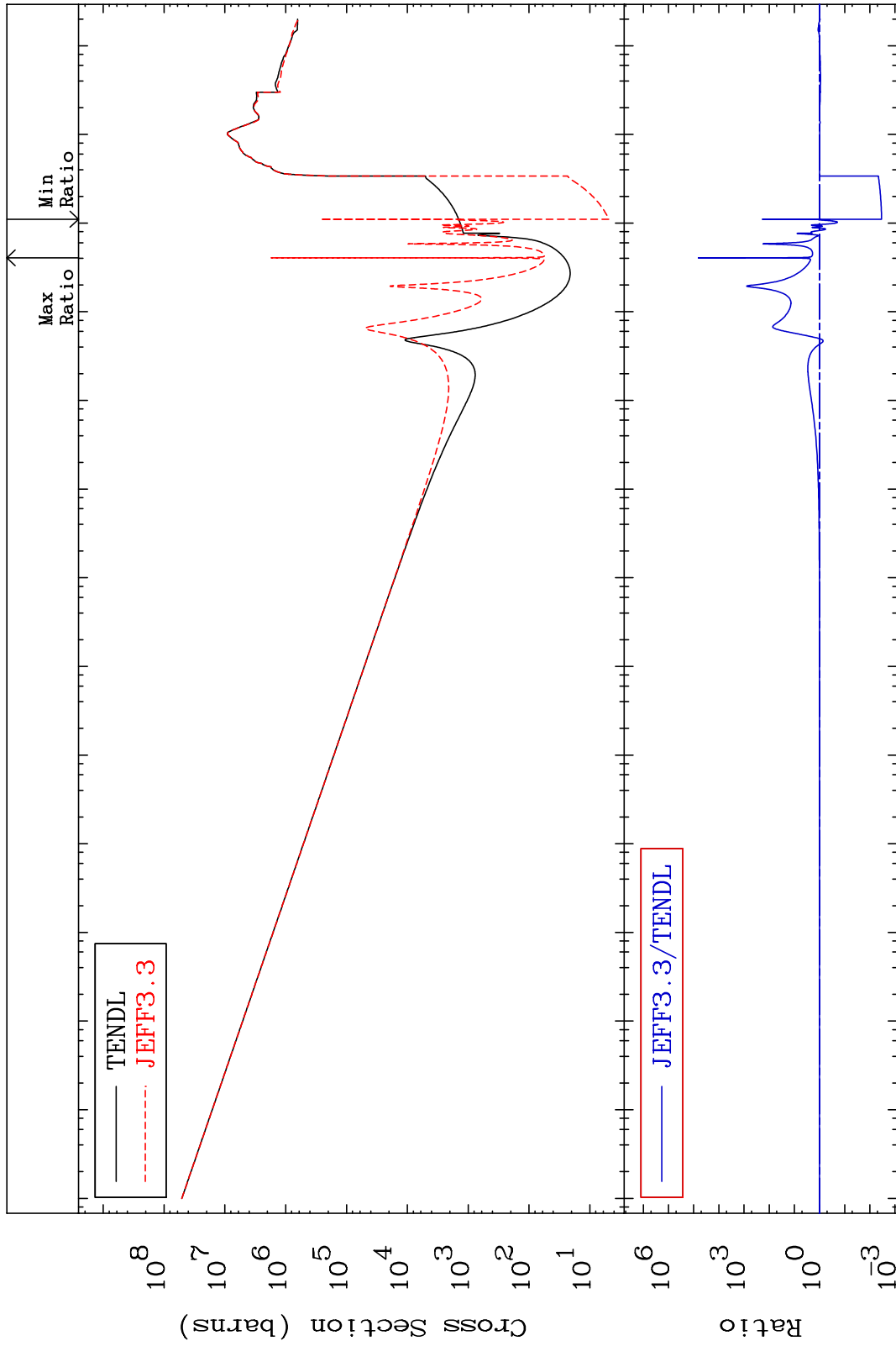
16-S -36



MAT 1637

Total photon (eV-barns)  
Cross Section

16-S -36  
-99.66 To 9999. %



72

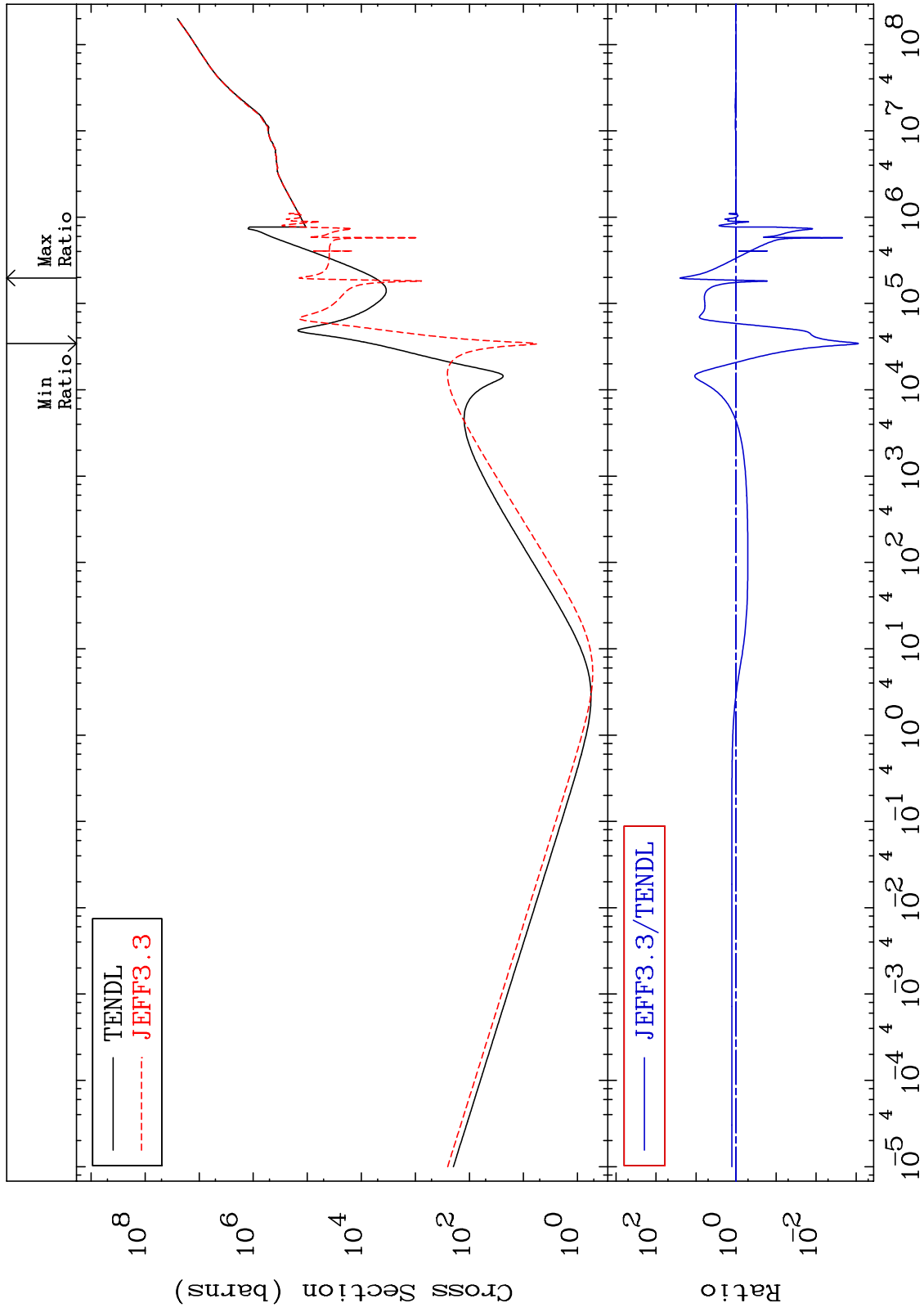
Incident Energy (eV)

16-S -36

MAT 1637

Total kinematic kerma (high limit)  
Cross Section

16-S -36  
-99.91 To 2409. %



73

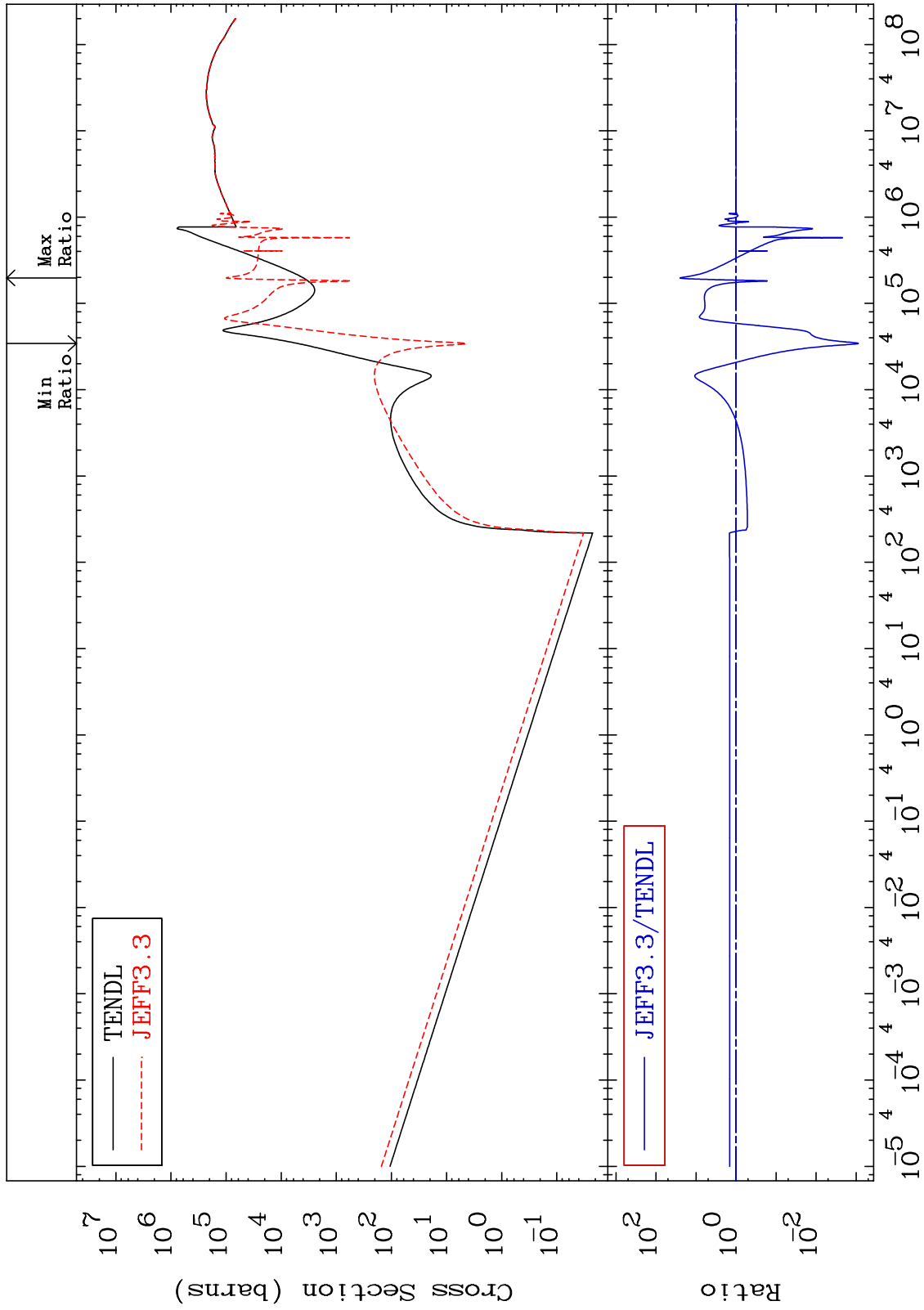
Incident Energy (eV)

16-S -36

MAT 1637

Dpa total (eV-barns)  
Cross Section

16-S -36  
-99.91 To 2409. %



74

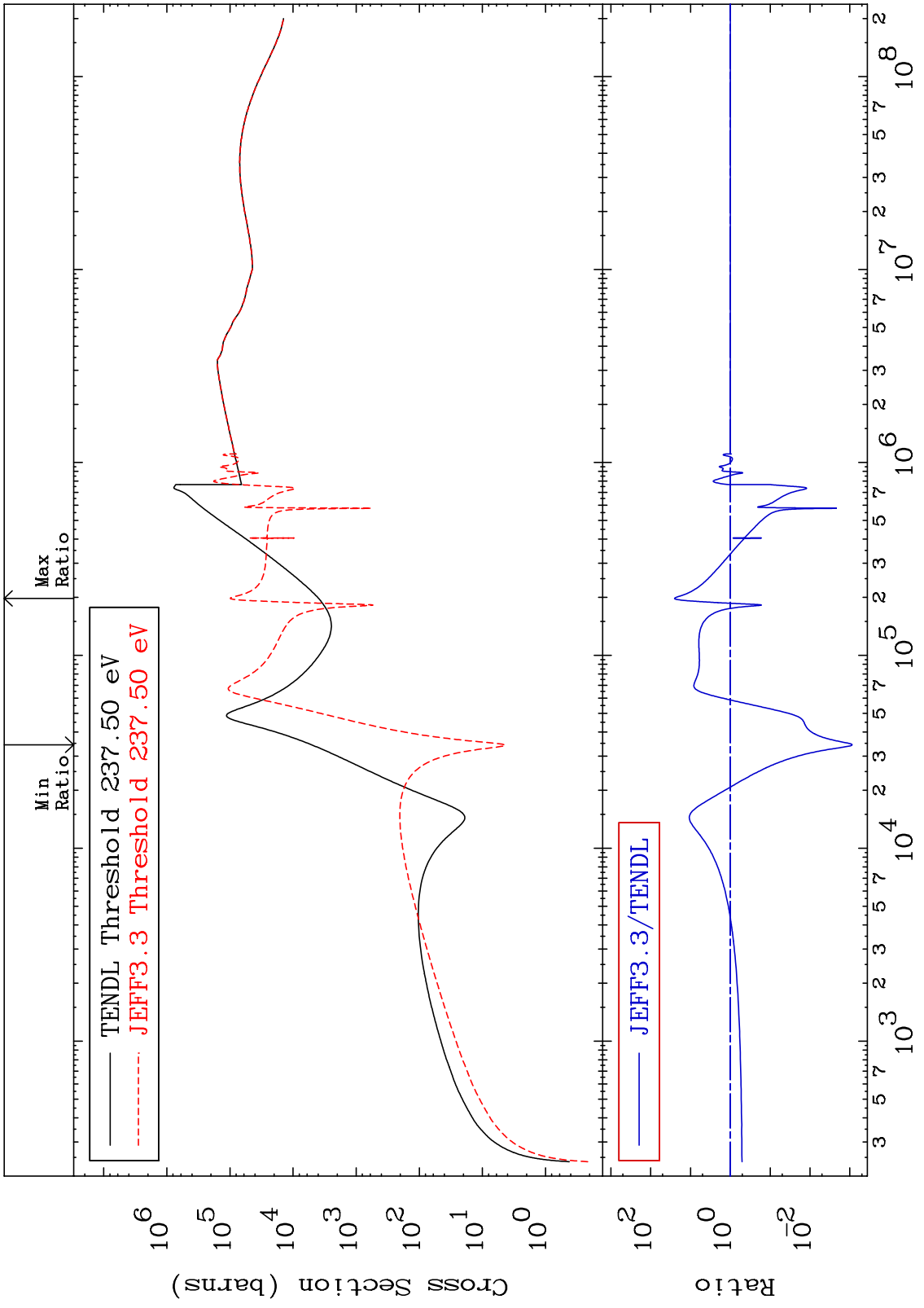
Incident Energy (eV)

16-S -36

MAT 1637

Dpa elastic (mt2)  
Cross Section

16-S -36  
-99.91 To 2409. %



75

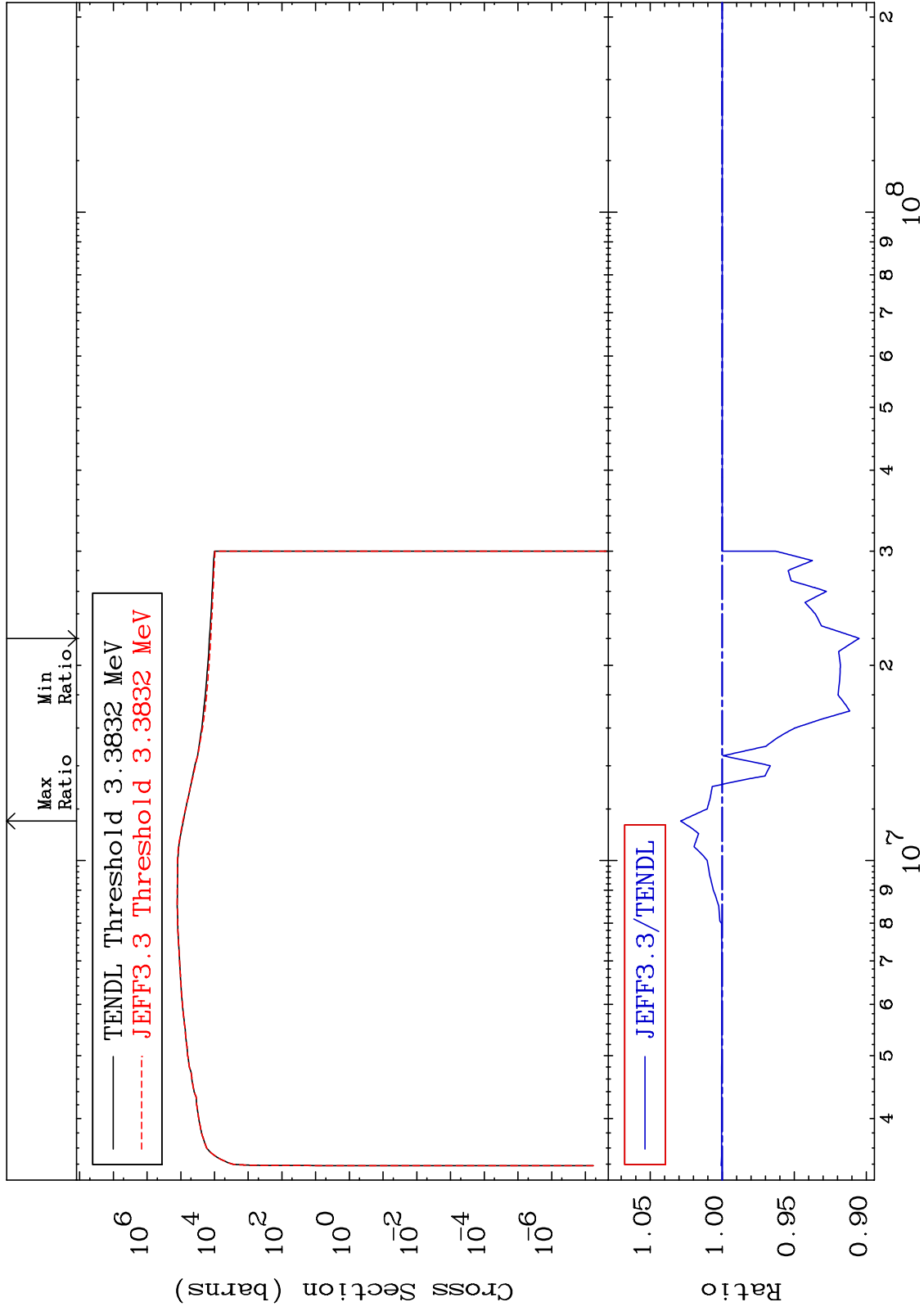
Incident Energy (eV)

16-S -36

MAT 1637

Dpa inelastic (mt51-91)  
Cross Section

16-S -36  
-9.503 To 2.884 %



76

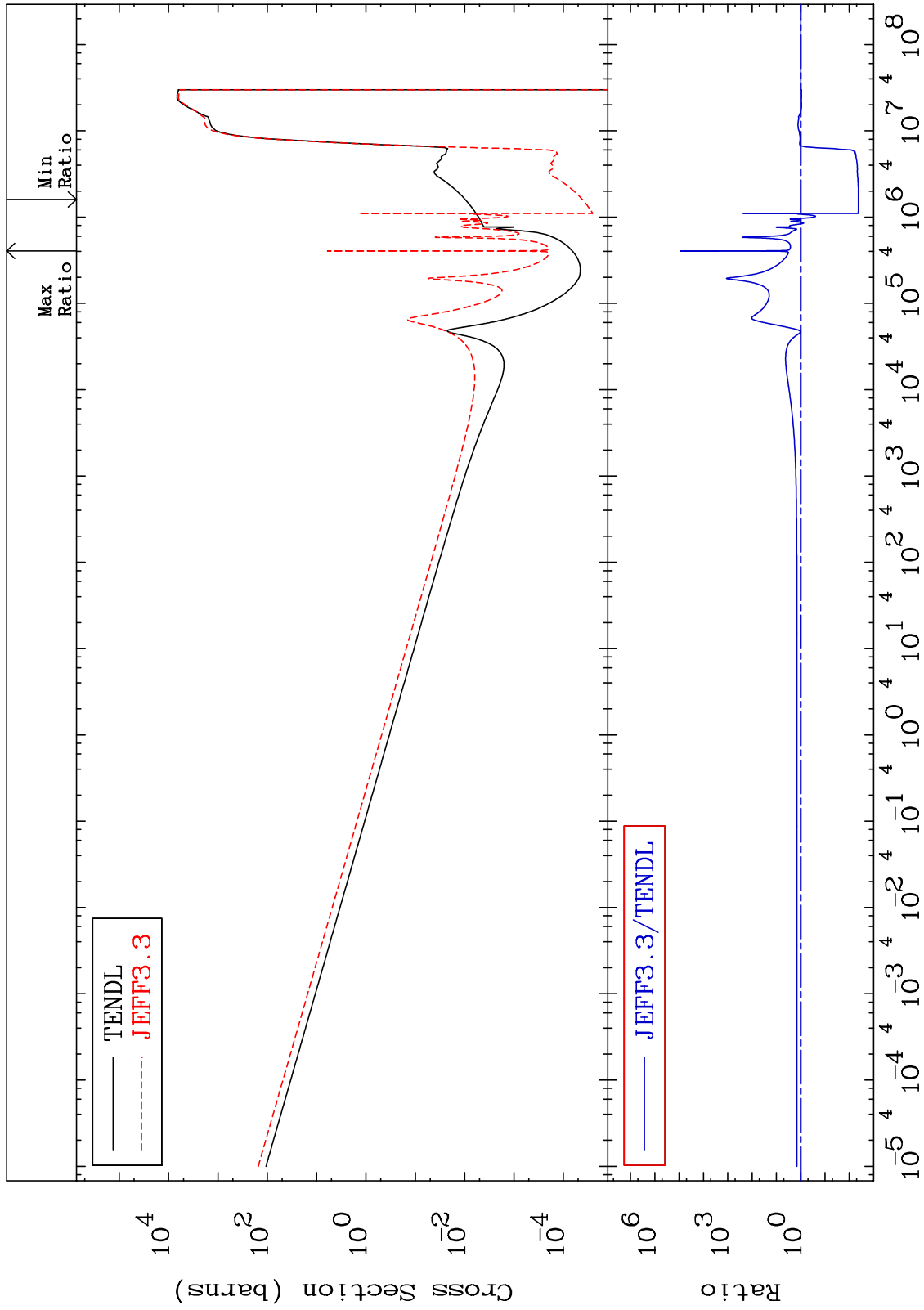
Incident Energy (eV)

16-S -36

MAT 1637

Dpa disappearance (mt102 -120)  
Cross Section

16-S -36  
-99.58 To 9999. %



77

Incident Energy (eV)

16-S -36