

Program Complot  
(Version 2018-1)

by

Dermott E. Cullen  
(Present Contact Information)

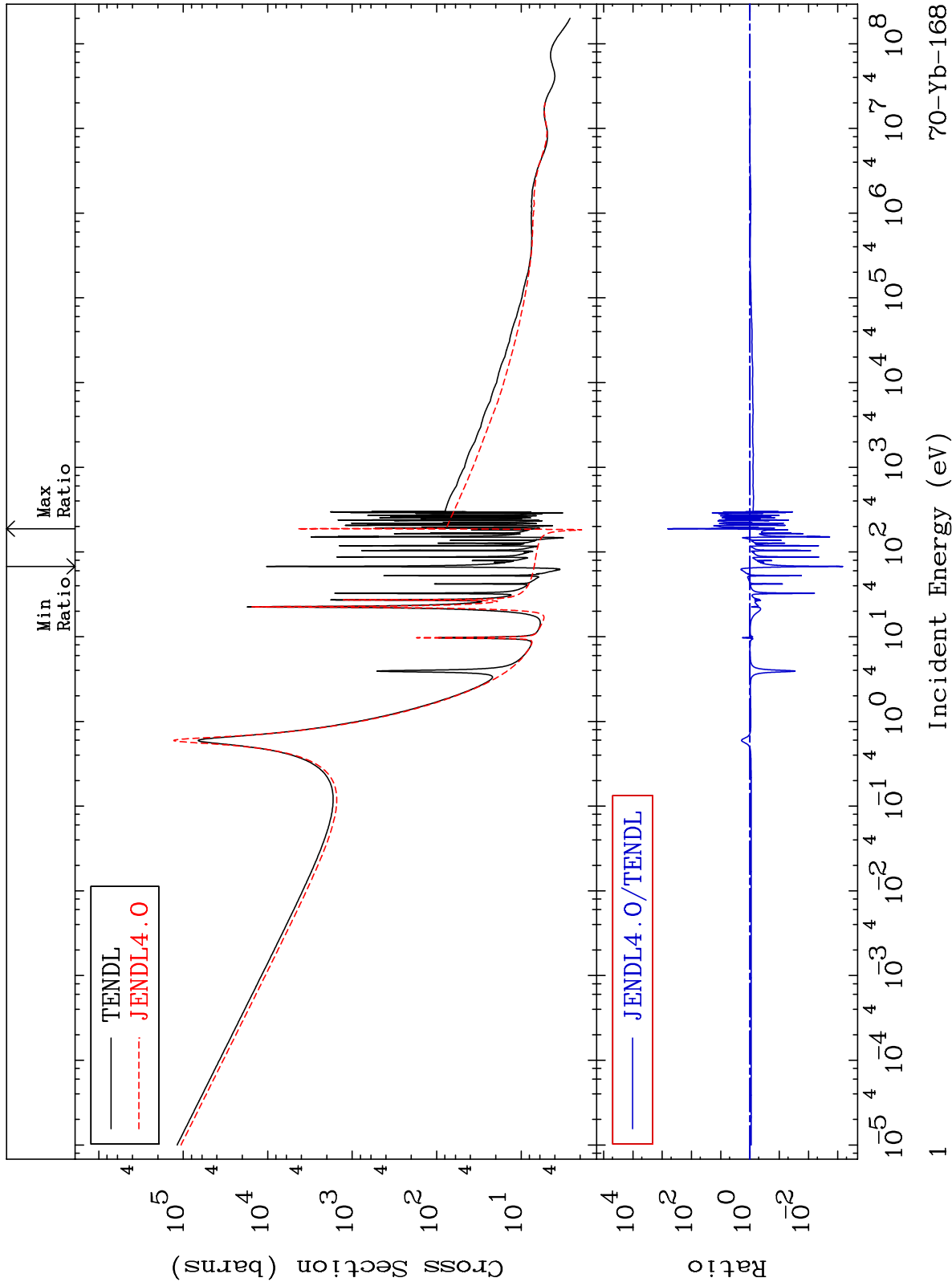
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E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 7025 Total Cross Section 70-Yb-168 -99.93 To 9999. %



70-Yb-168

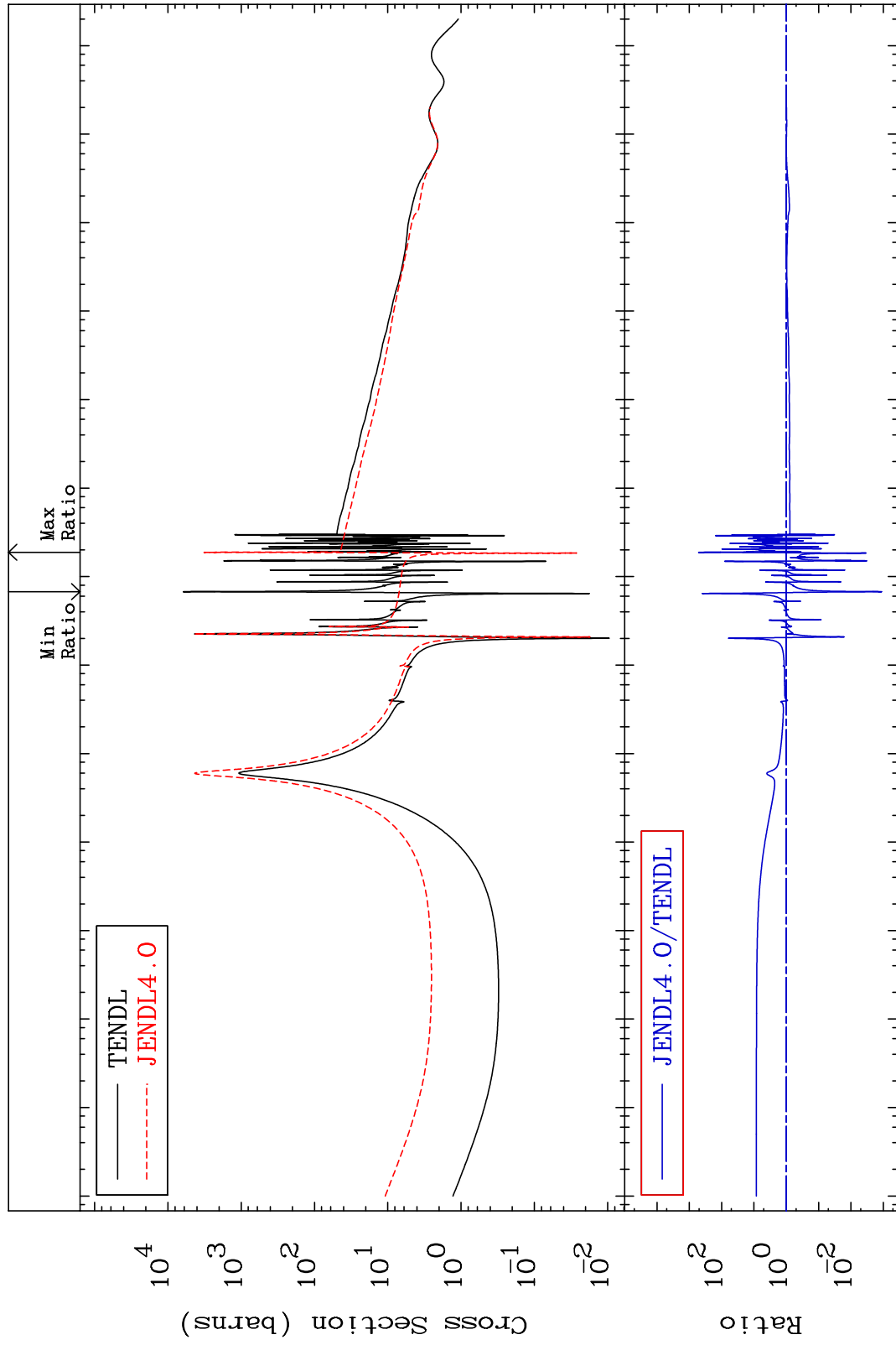
MAT 7025

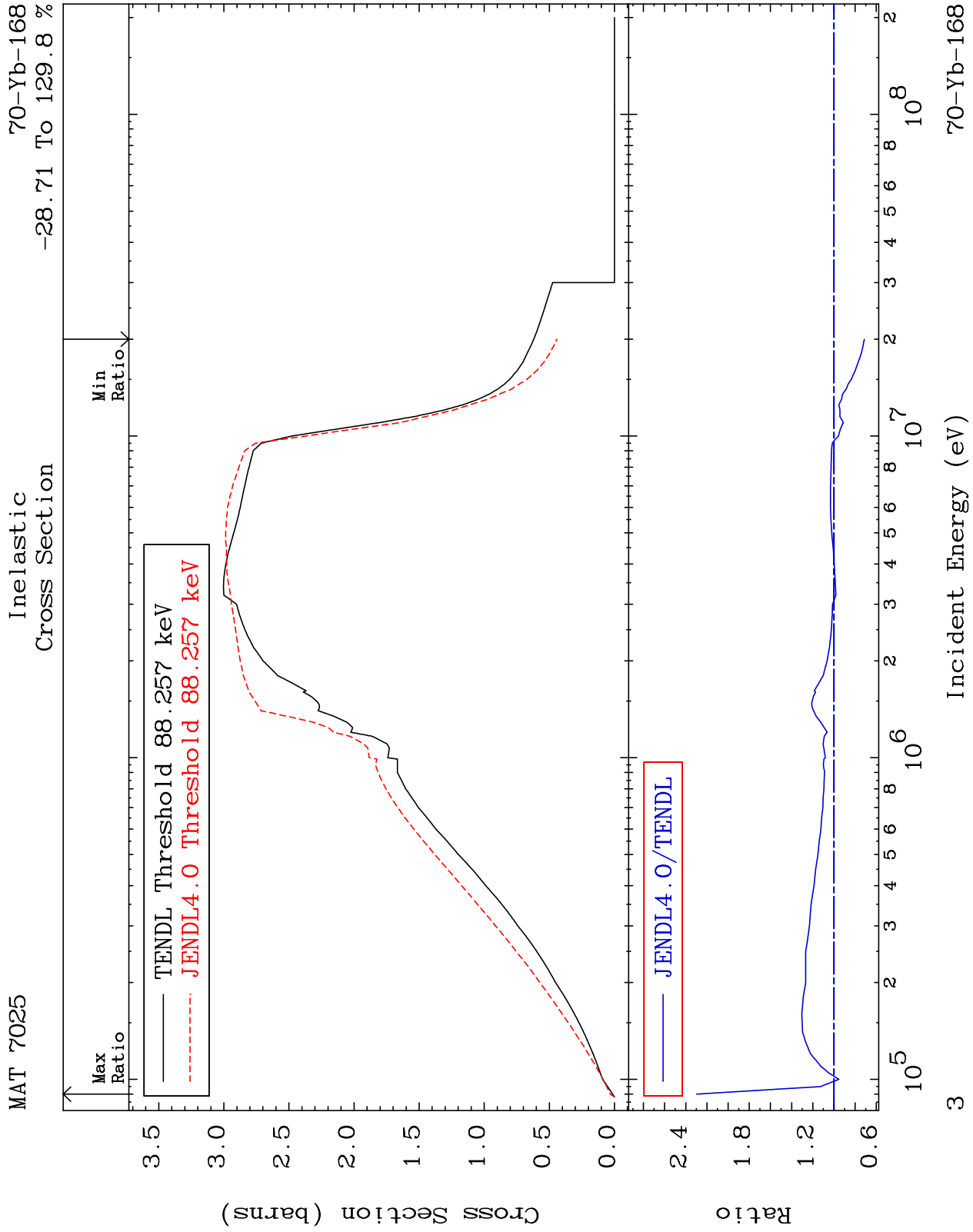
Elastic

70-Yb-168

-99.89 To 9999. %

Cross Section





MAT 7025

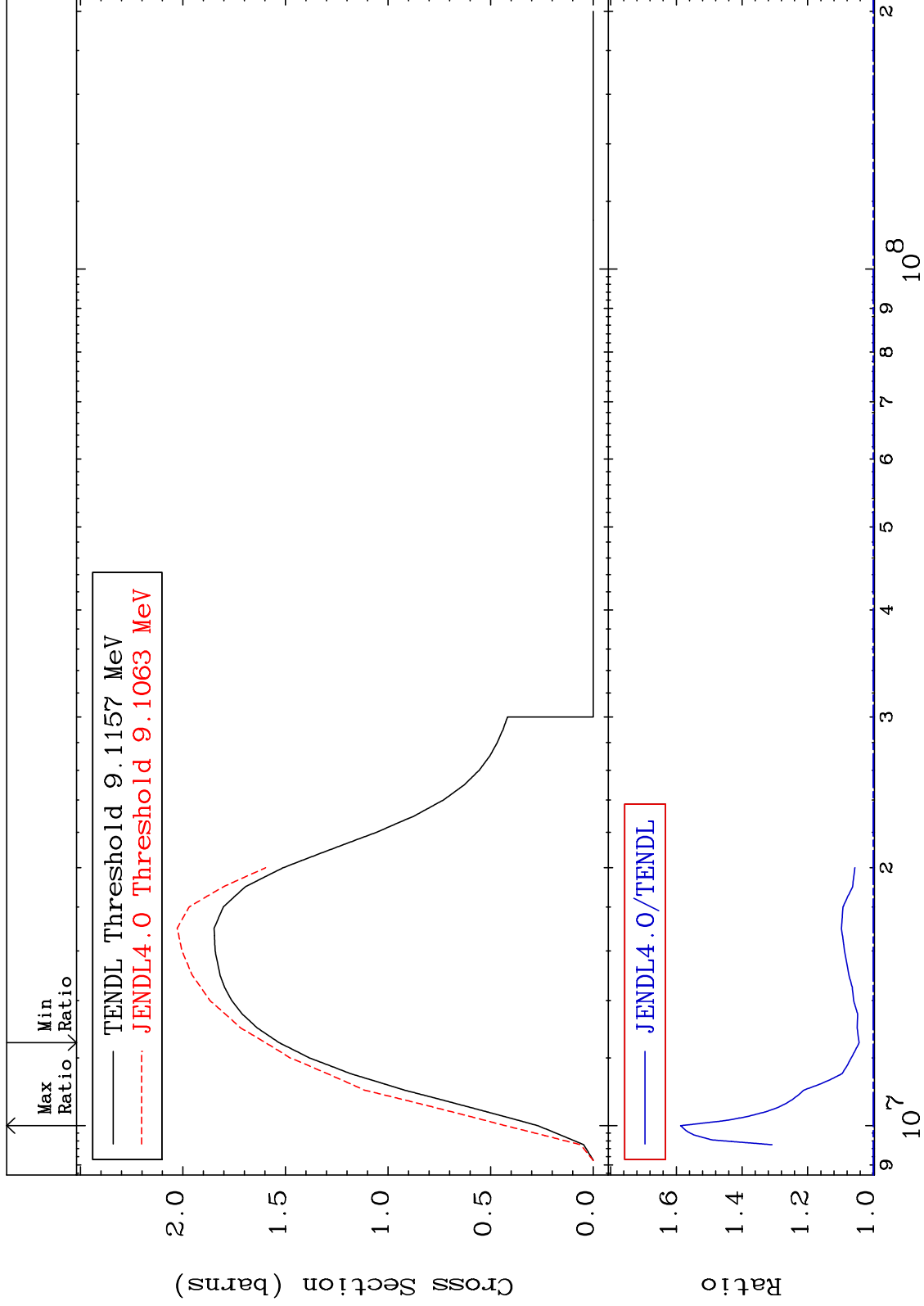
(n,2n)

70-Yb-168

Cross Section

4.333

To 58.69 %



70-Yb-168

4

MAT 7025

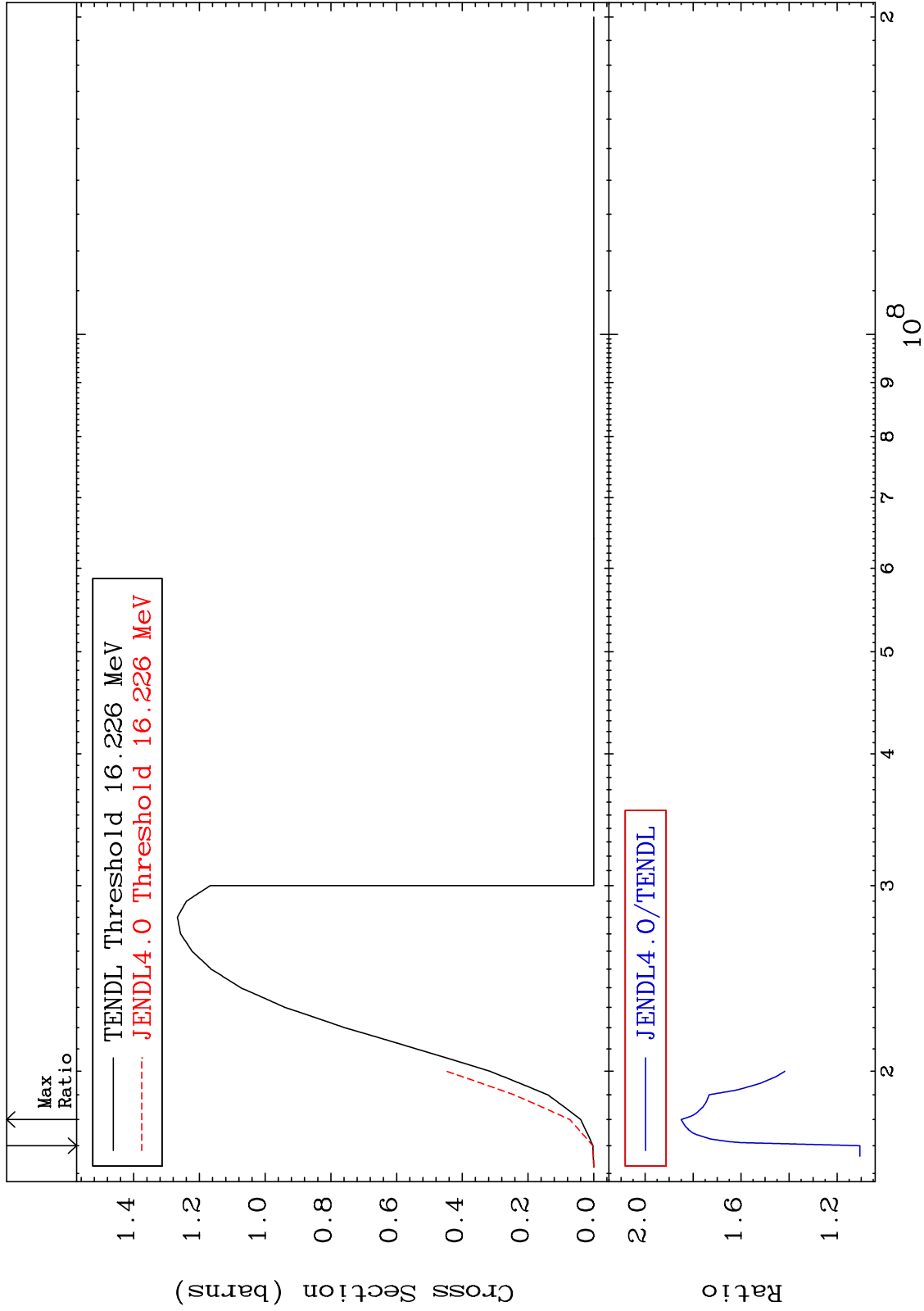
(n, 3n)

70-Yb-168

Cross Section

10.54

To 84.94 %



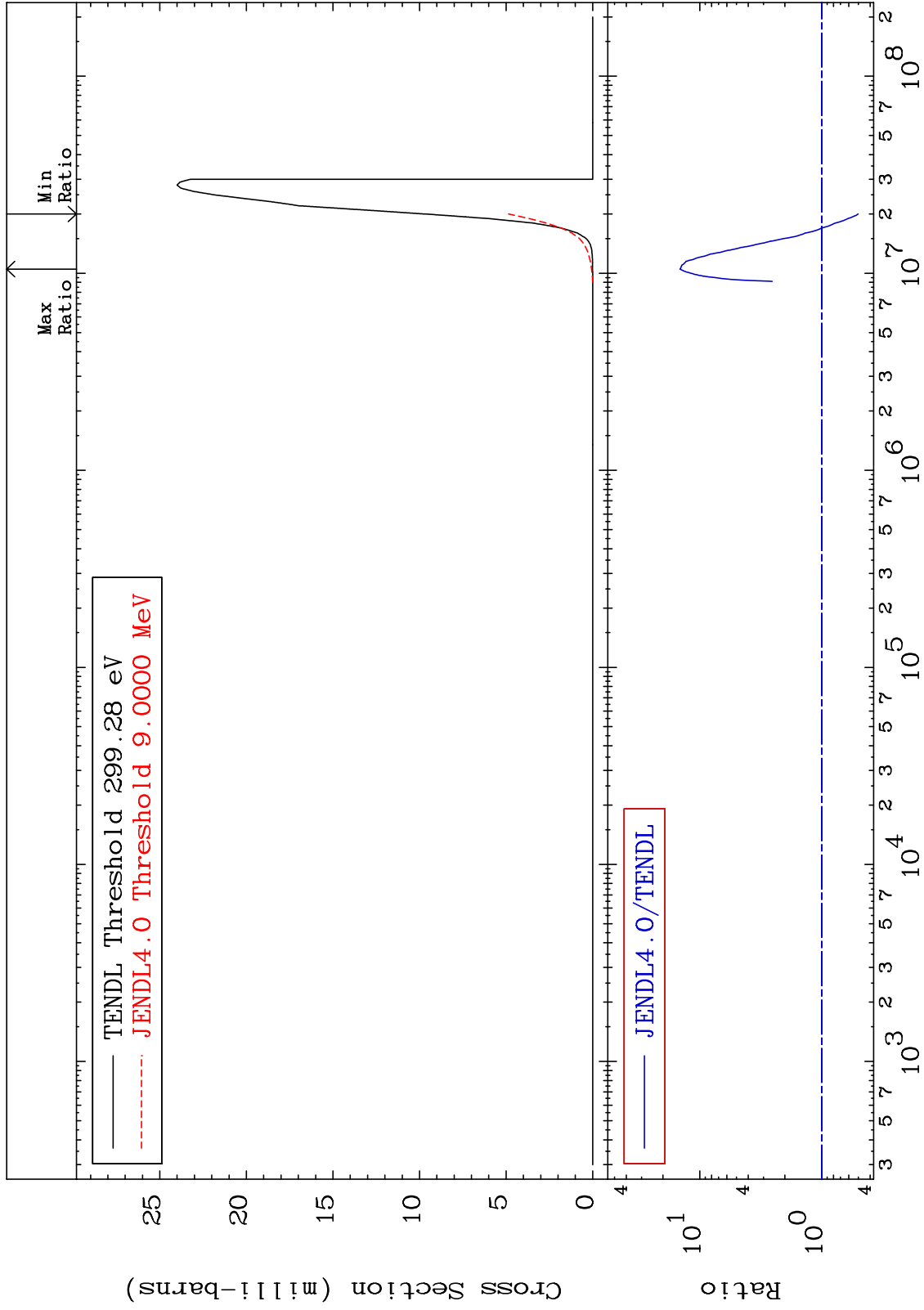
MAT 7025

(n,n')  $\alpha$

Cross Section

70-Yb-168

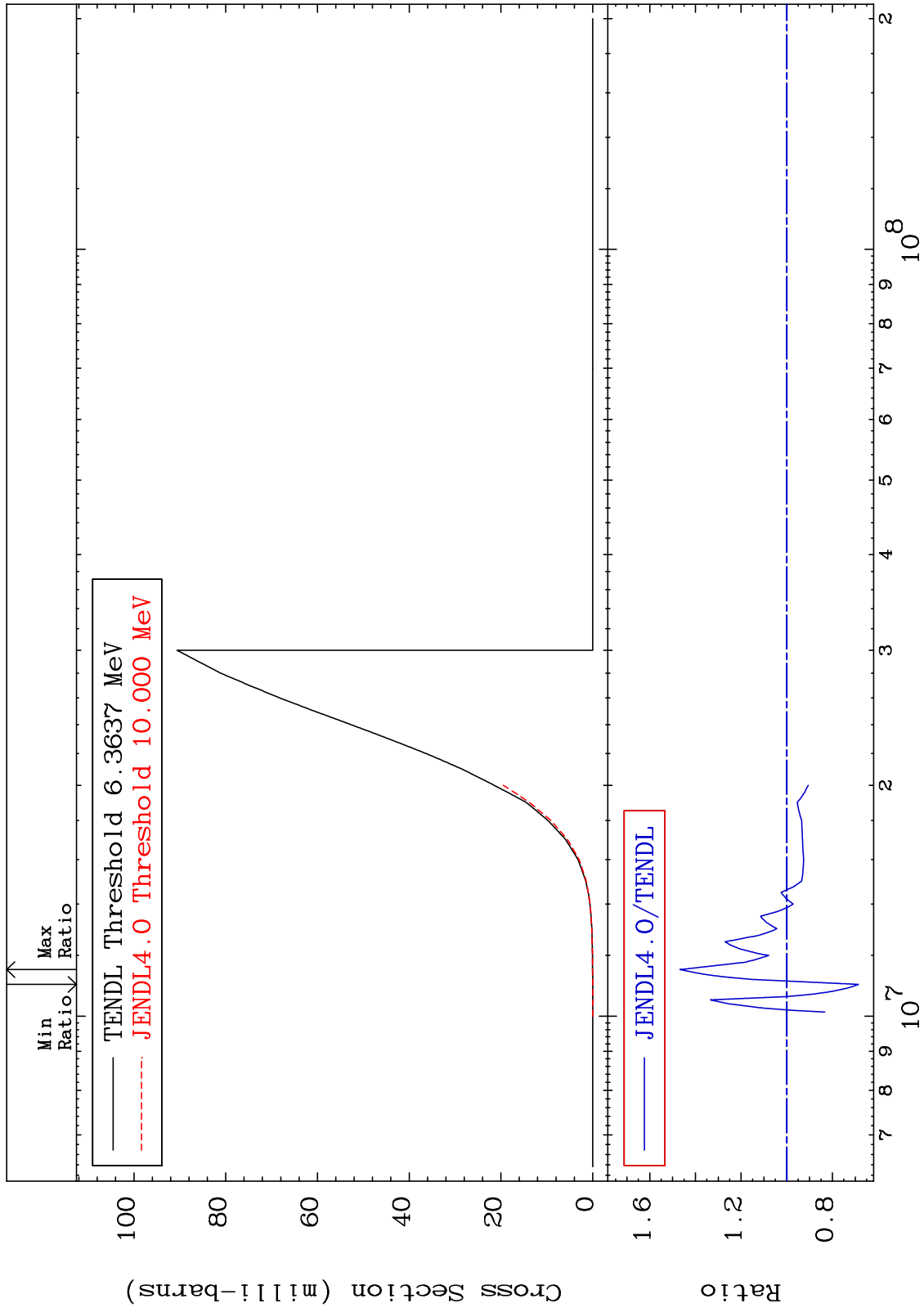
-50.07 To 1351. %



MAT 7025

(n, n') p  
Cross Section

70-Yb-168  
-31.38 To 46.76 %





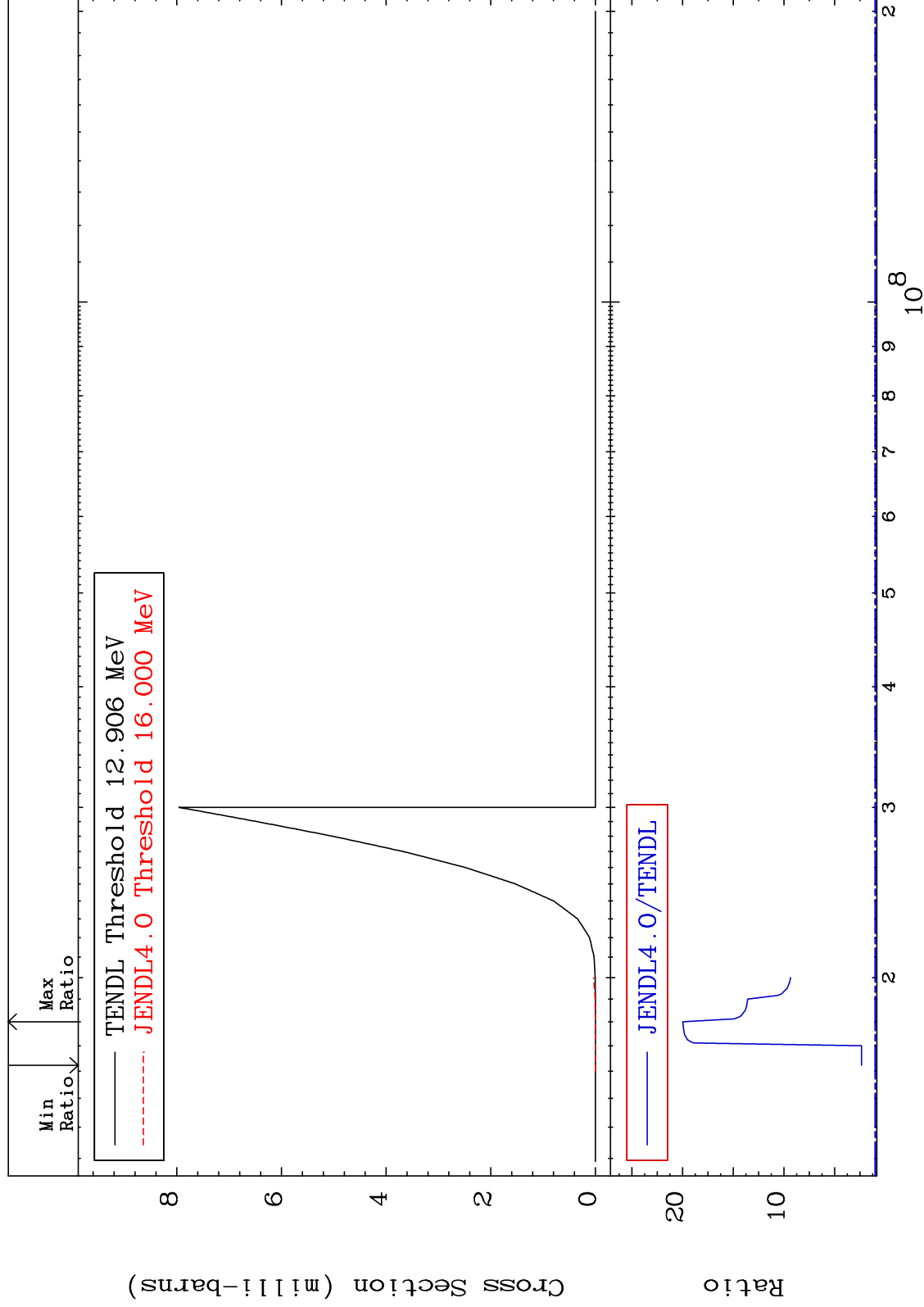
MAT 7025

(n,n') d

70-Yb-168

Cross Section

135.4 To 1898. %



8

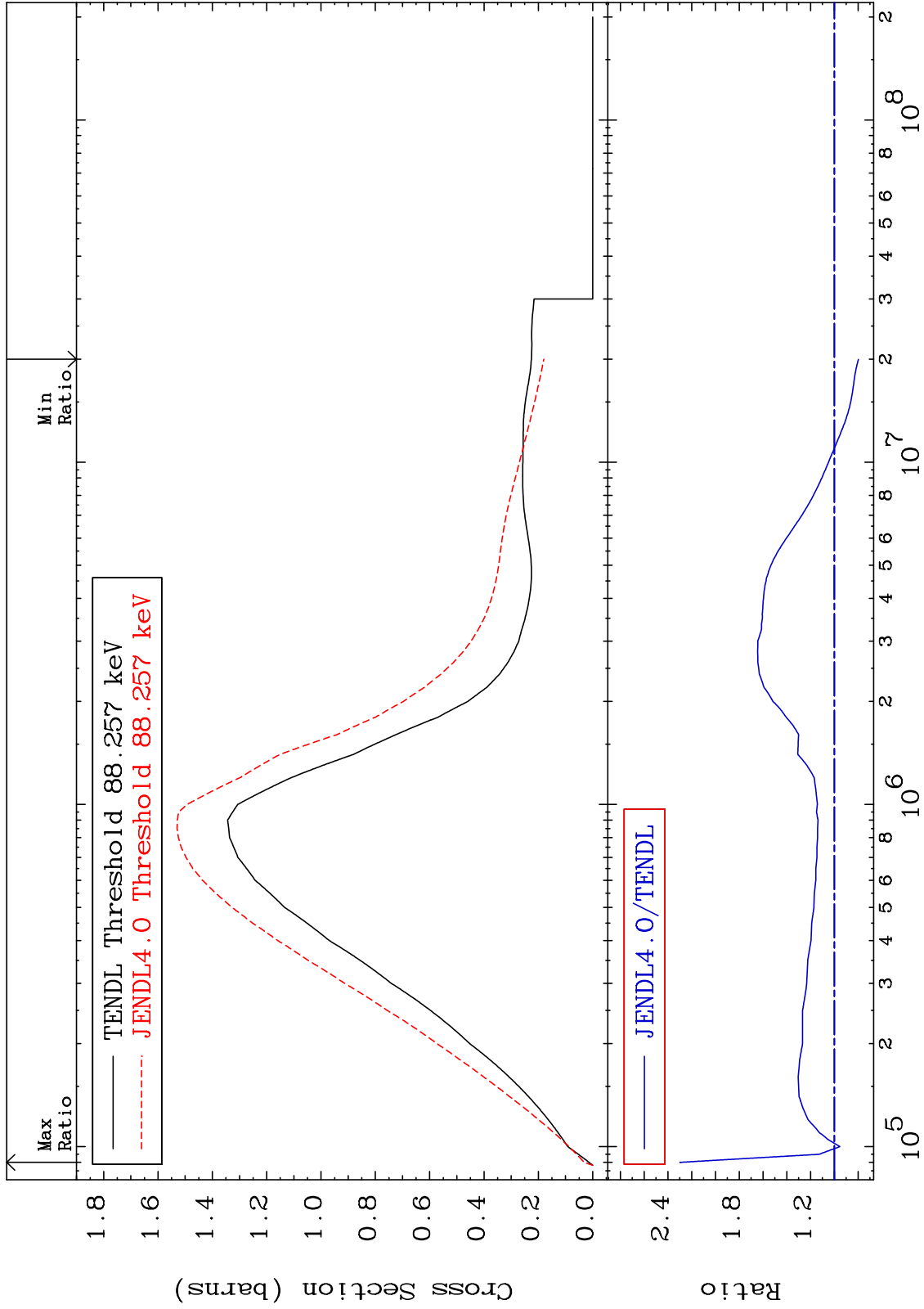
Incident Energy (eV)

70-Yb-168

MAT 7025

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

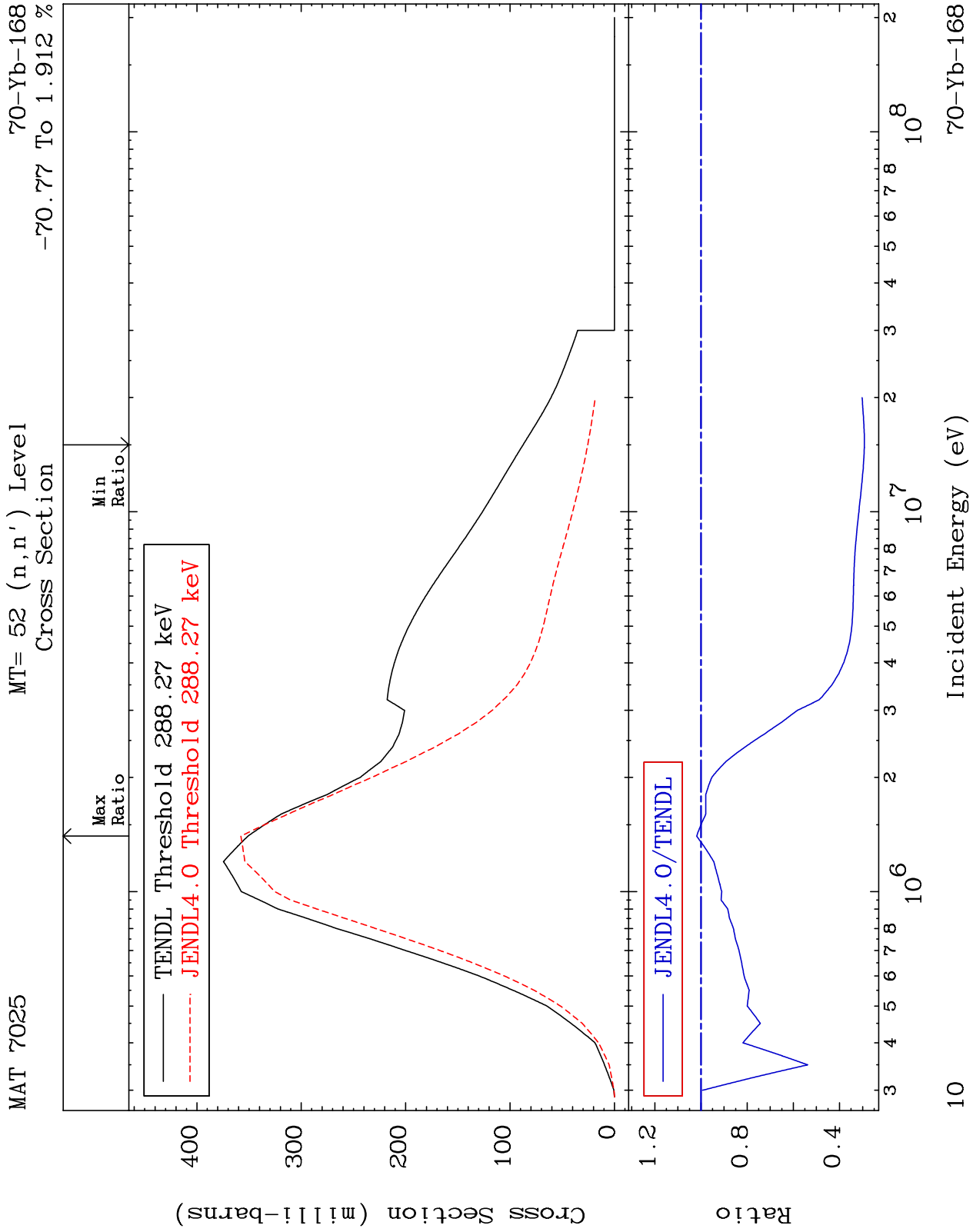
70-Yb-168  
-20.27 To 129.8 %



70-Yb-168

Incident Energy (eV)

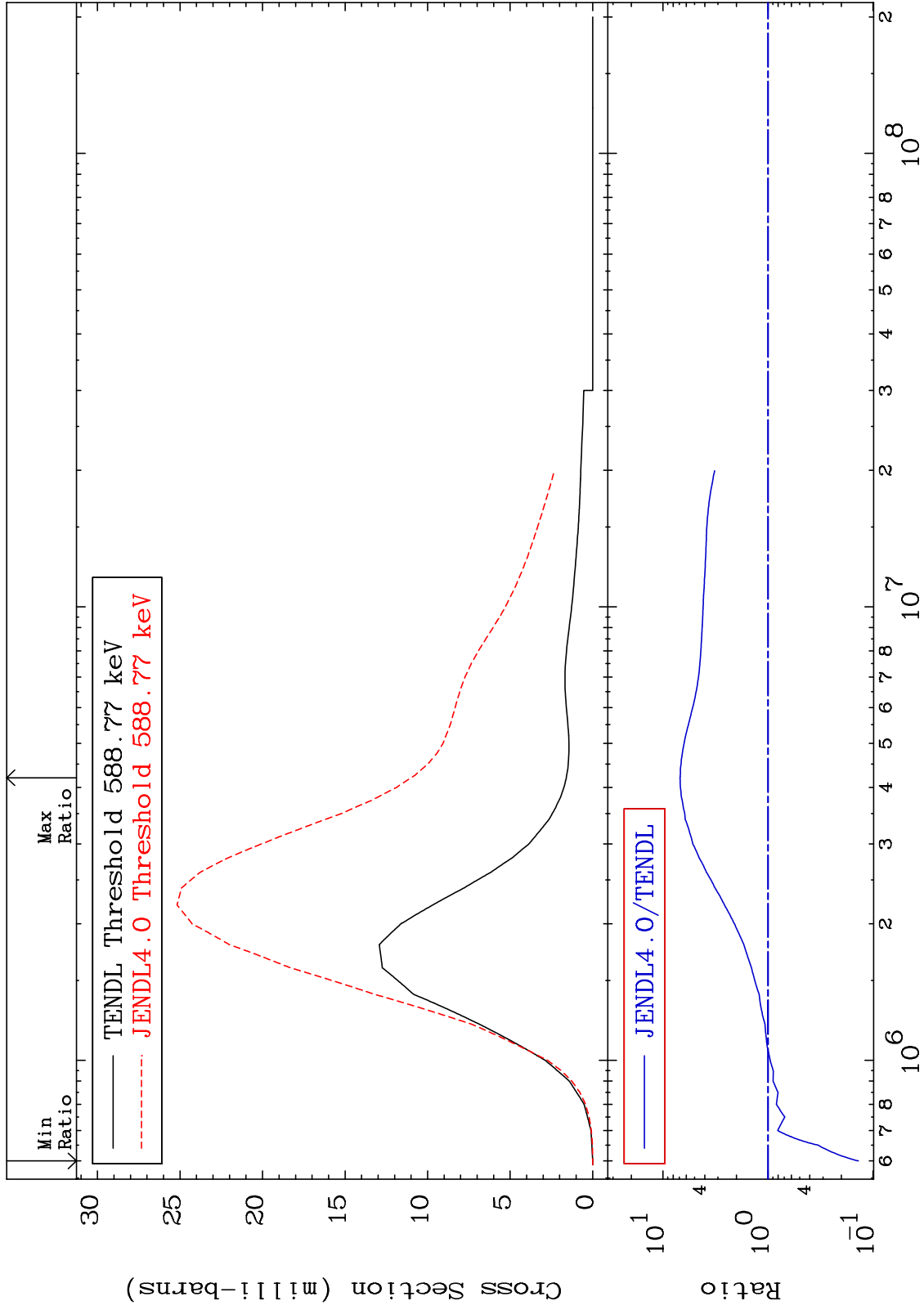
9



MAT 7025

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

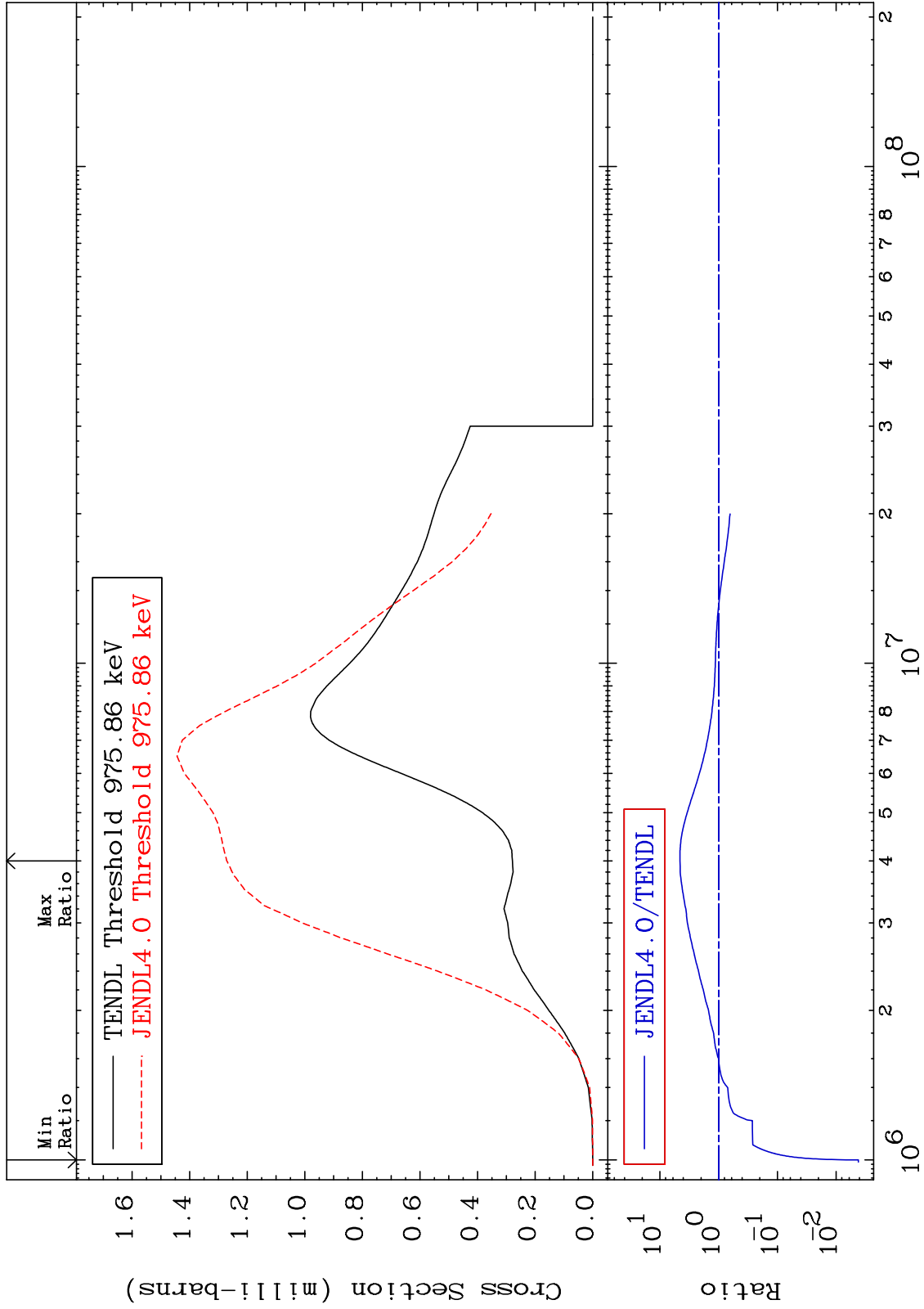
70-Yb-168  
-86.22 To 588.5 %



MAT 7025

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

70-Yb-168  
-99.58 To 355.4 %



Incident Energy (eV)

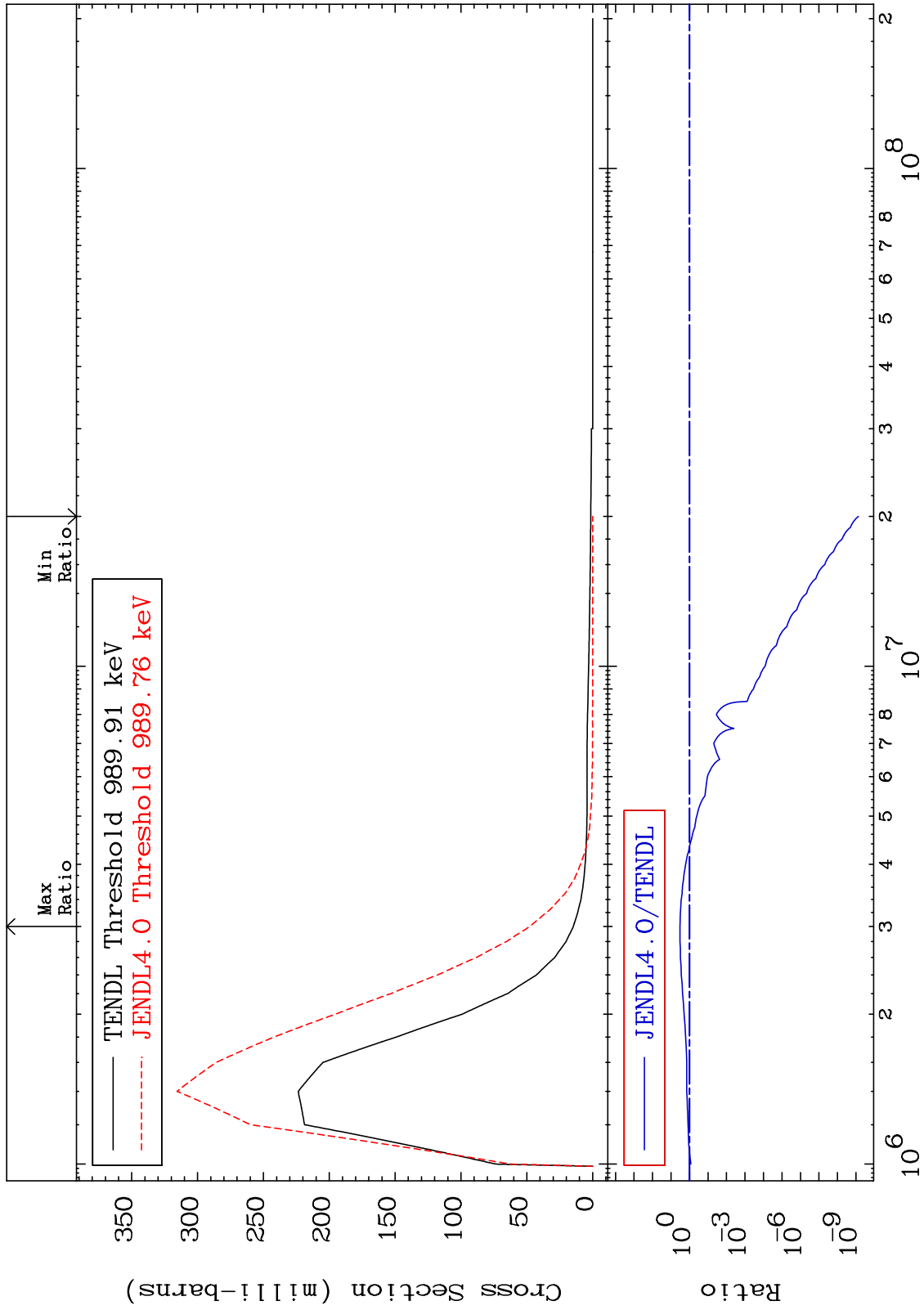
70-Yb-168

12

MAT 7025

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

70-Yb-168  
-100.0 To 225.0 %

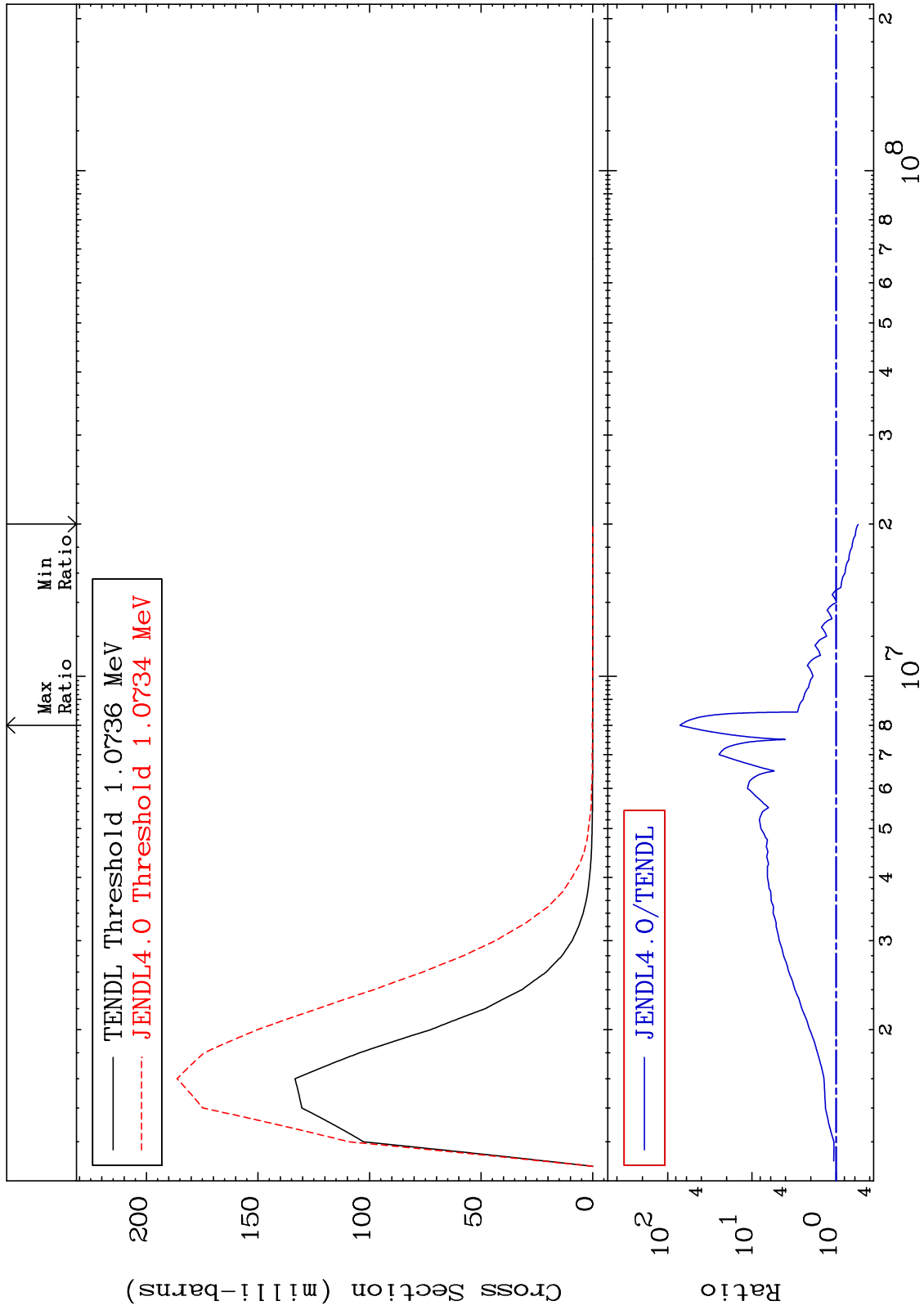


Incident Energy (eV)

70-Yb-168

13

MAT 7025 MT= 56 (n,n') Level Cross Section 70-Yb-168  
 -45.47 To 7045. %



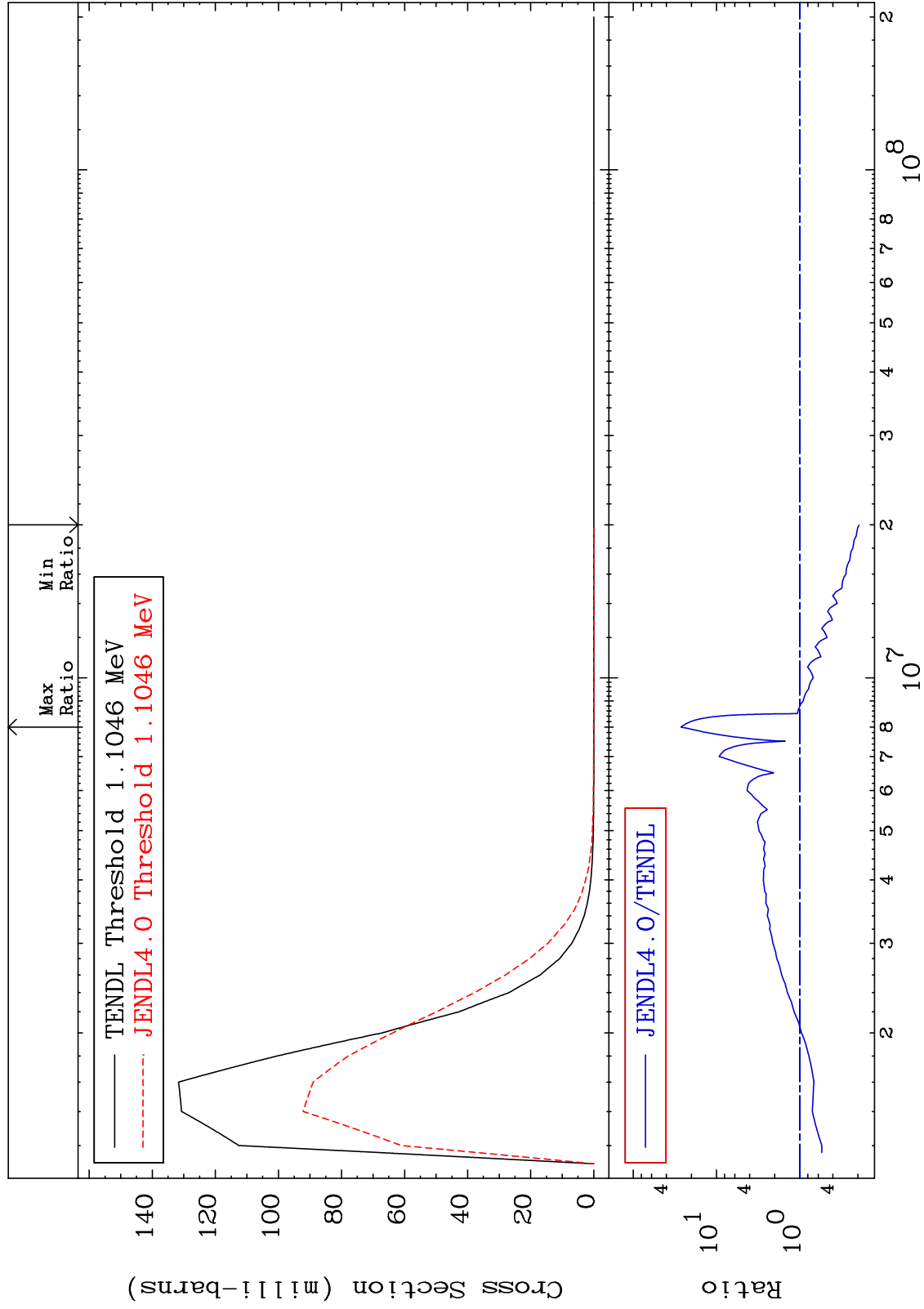
MAT 7025

MT= 57 (n, n') Level

70-Yb-168

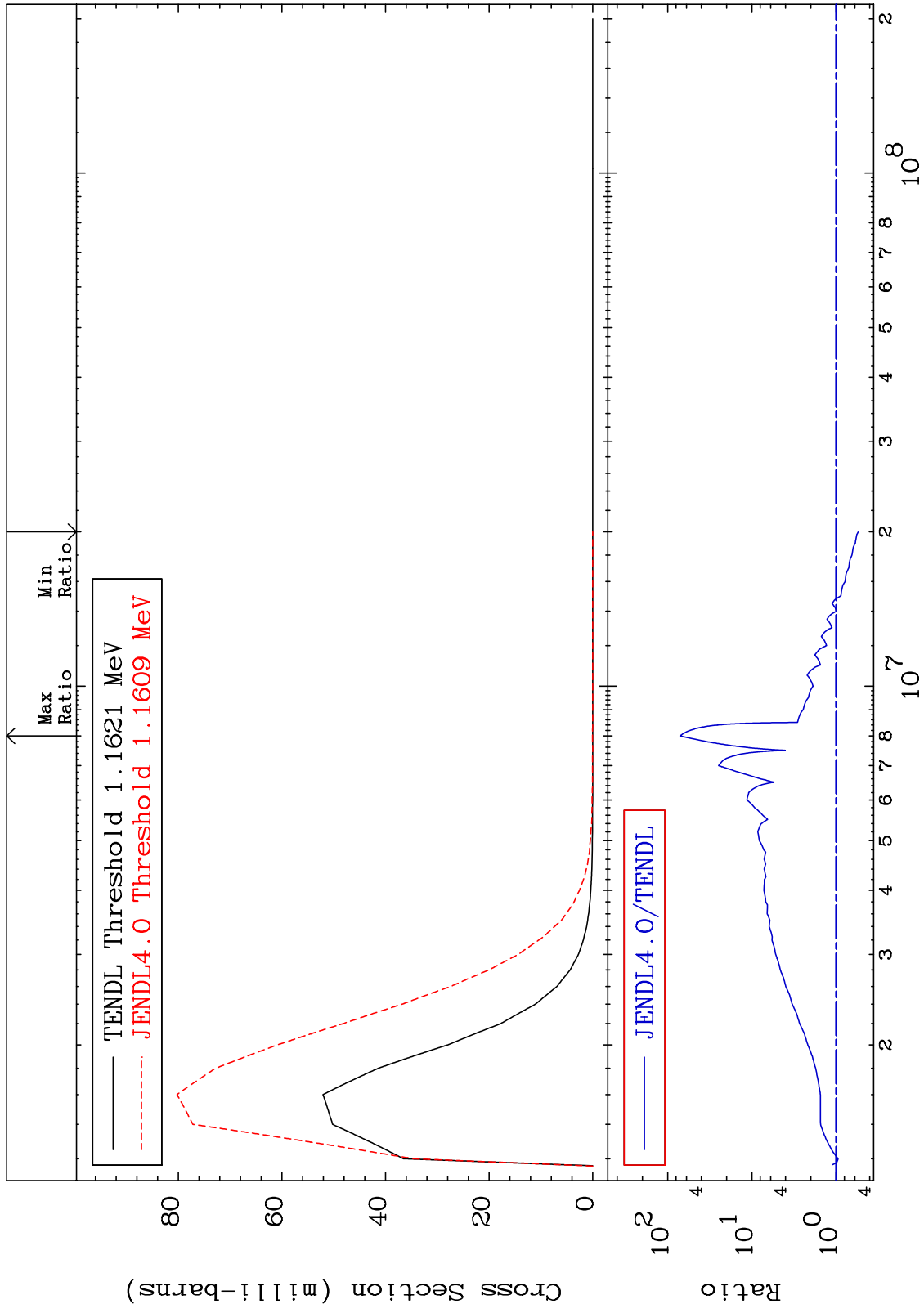
-80.74 To 2560. %

Cross Section





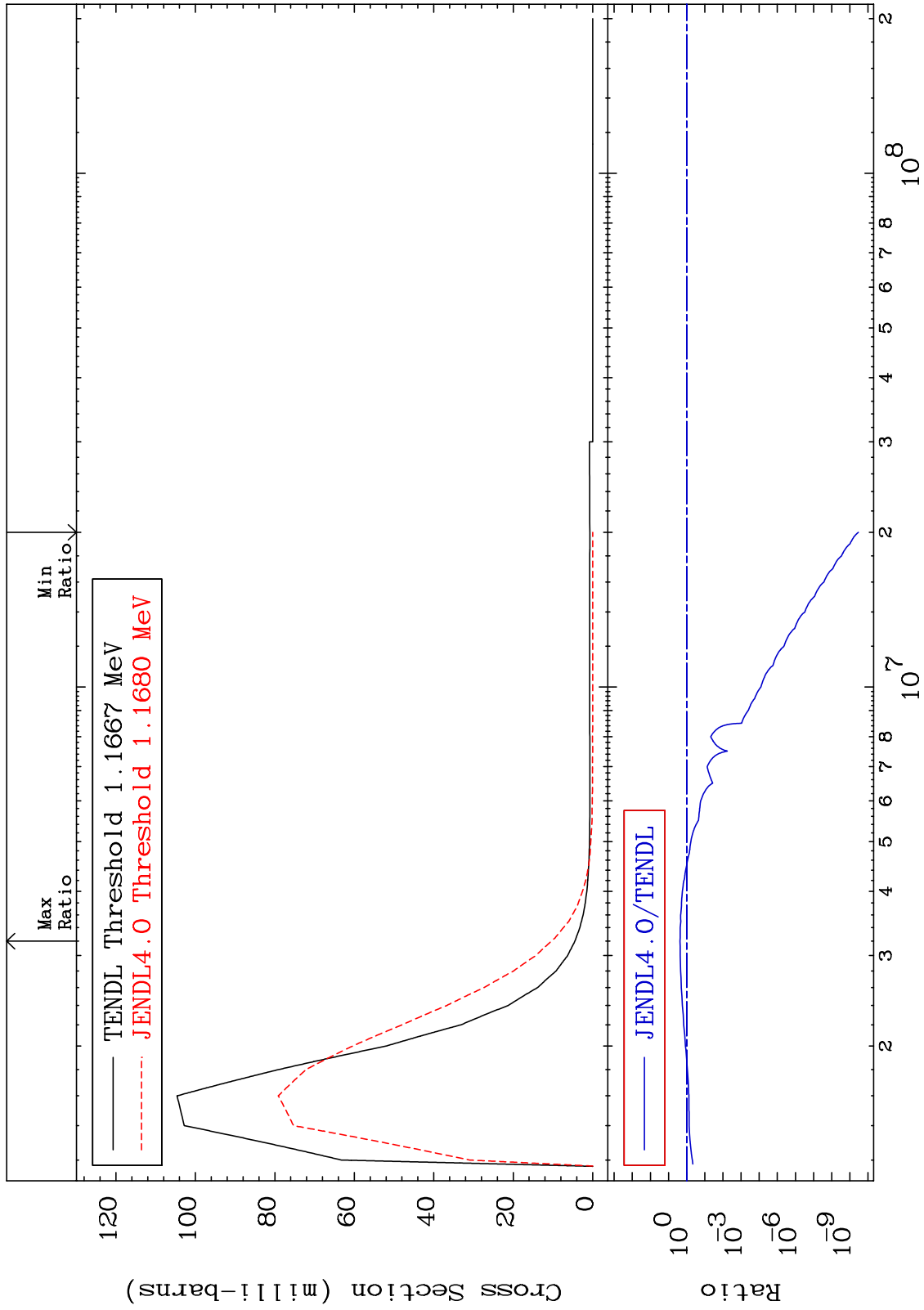
MAT 7025 MT= 58 (n,n') Level Cross Section 70-Yb-168  
 -45.50 To 7055. %



MAT 7025

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

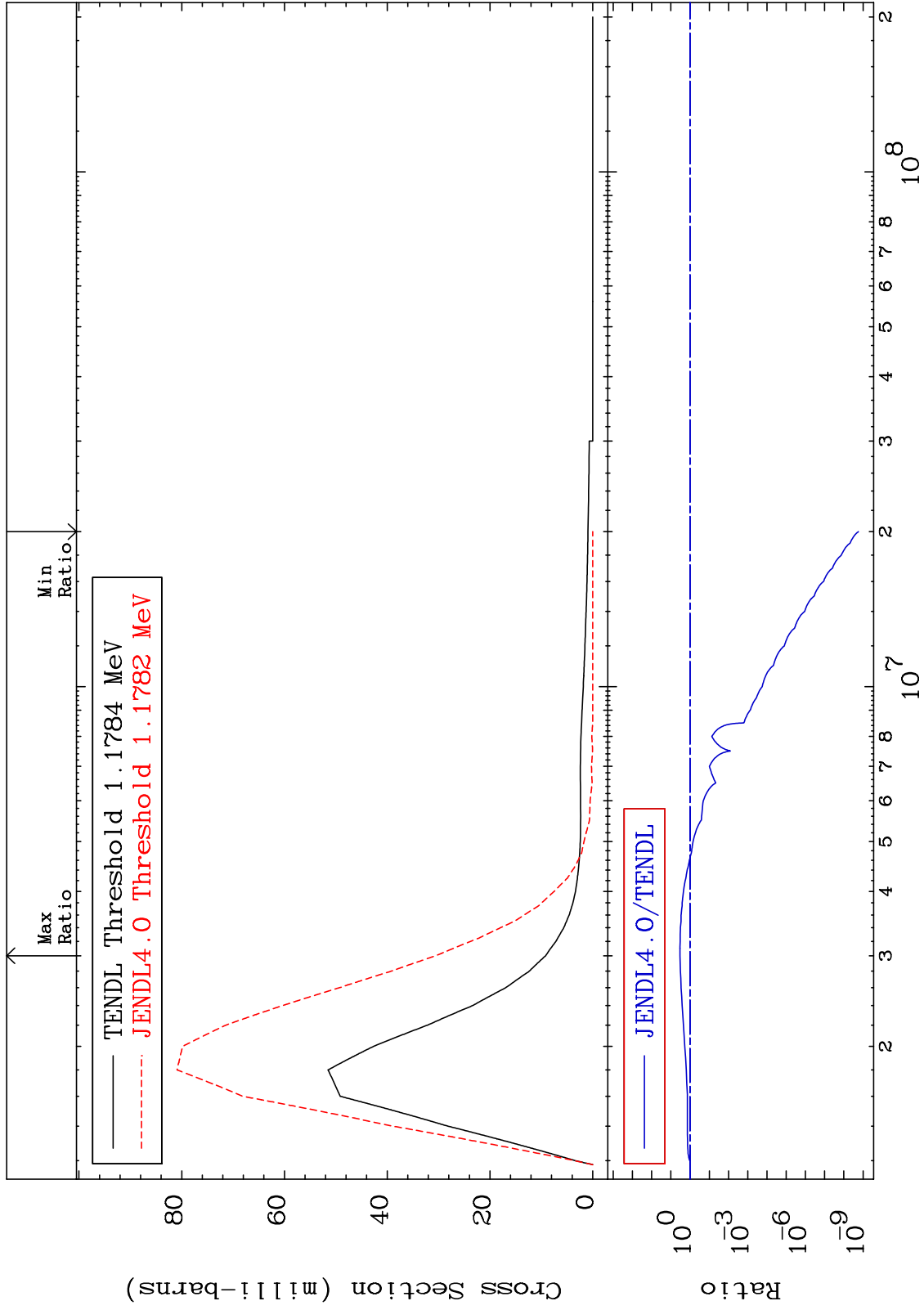
70-Yb-168  
-100.0 To 132.8 %



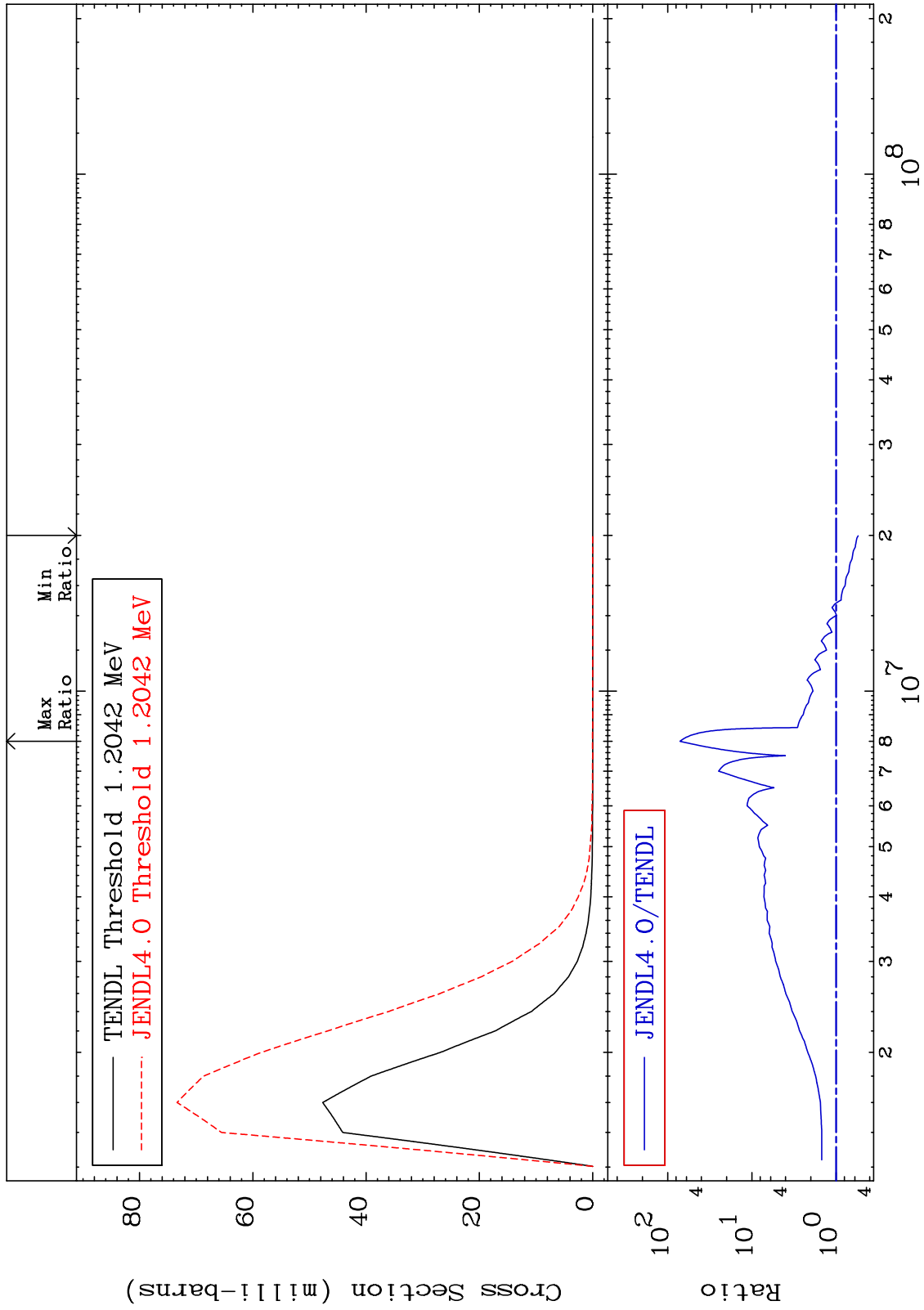
MAT 7025

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

70-Yb-168  
-100.0 To 233.3 %



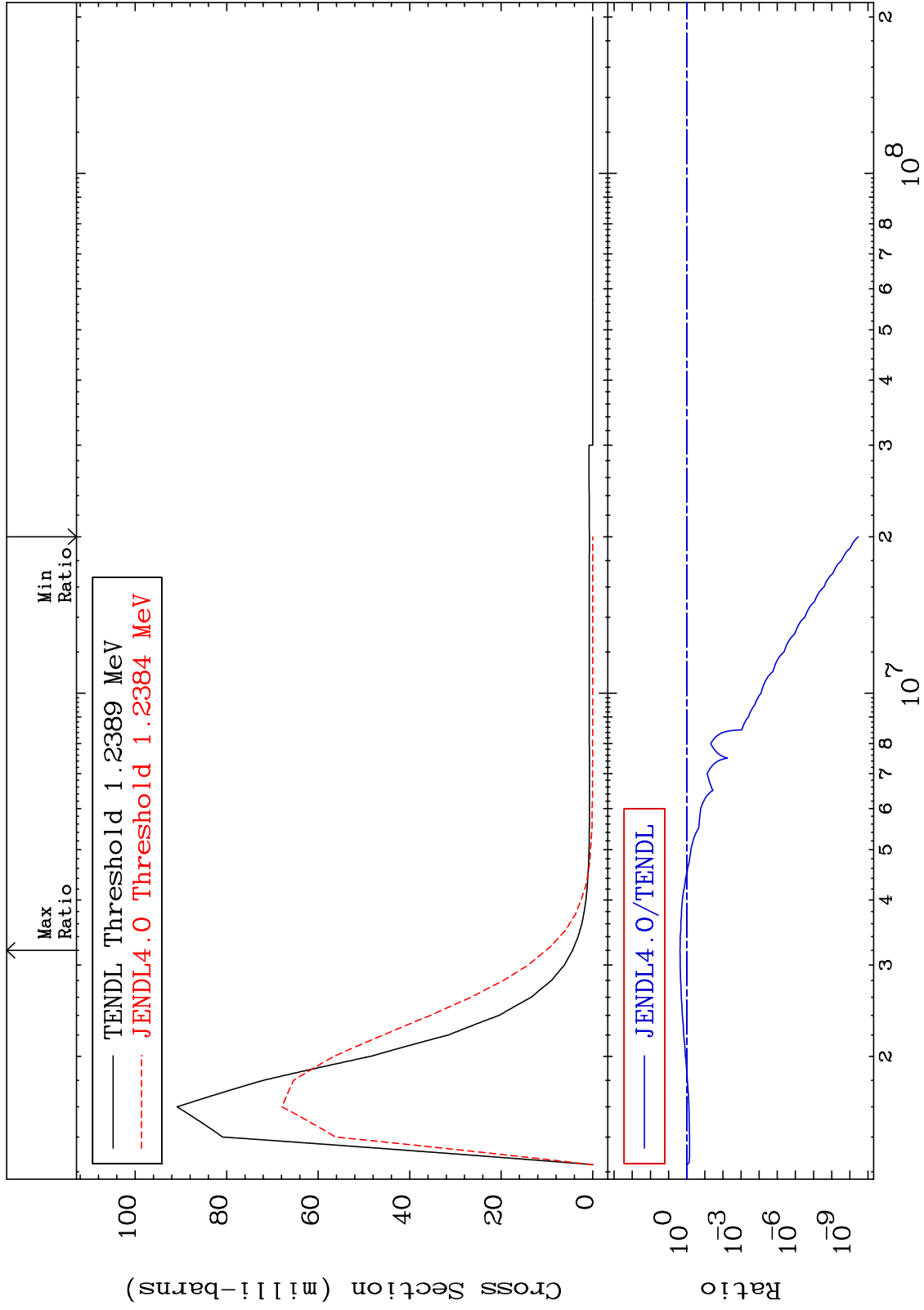
MAT 7025 MT= 61 (n,n') Level Cross Section 70-Yb-168  
 -45.49 To 7056. %

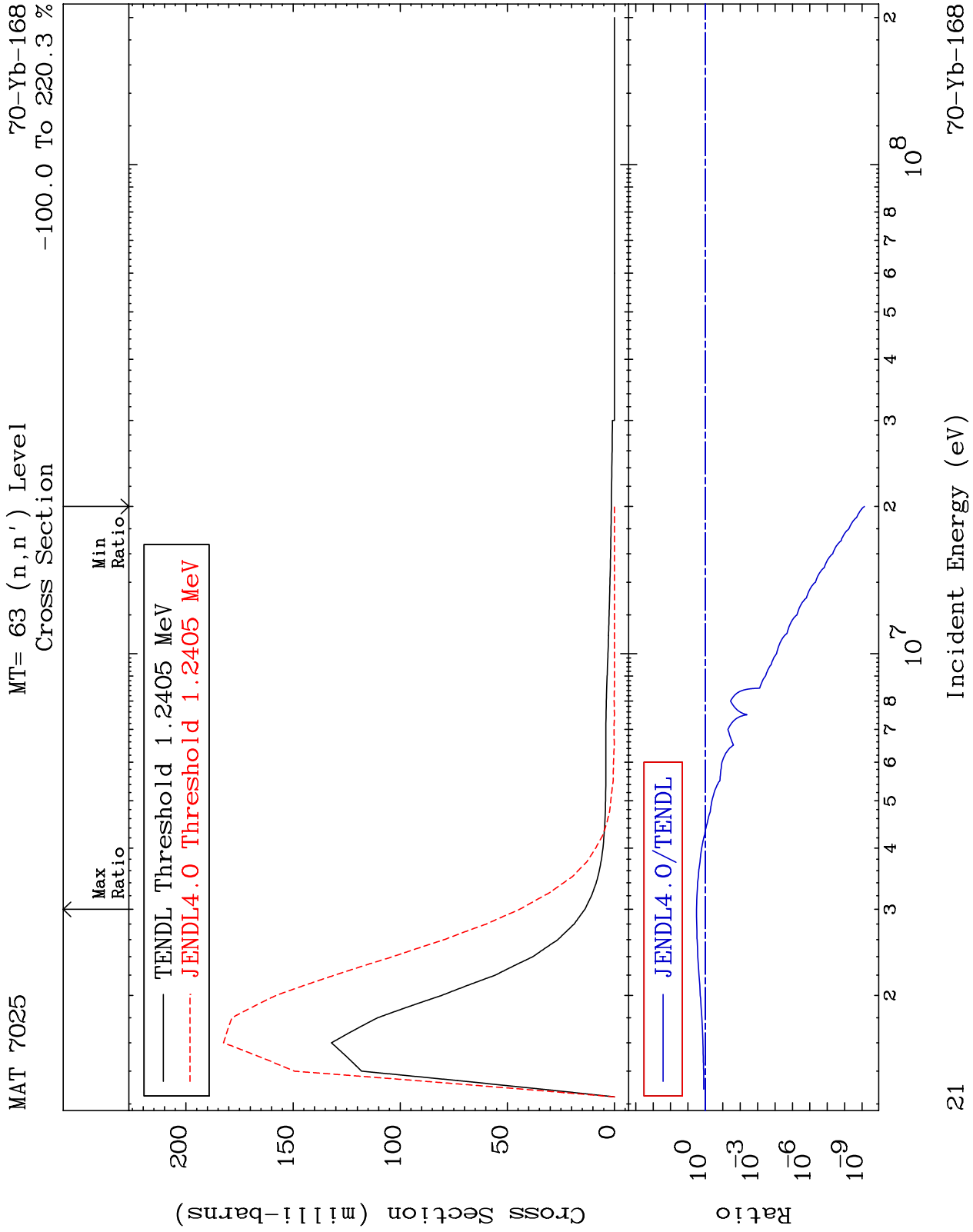


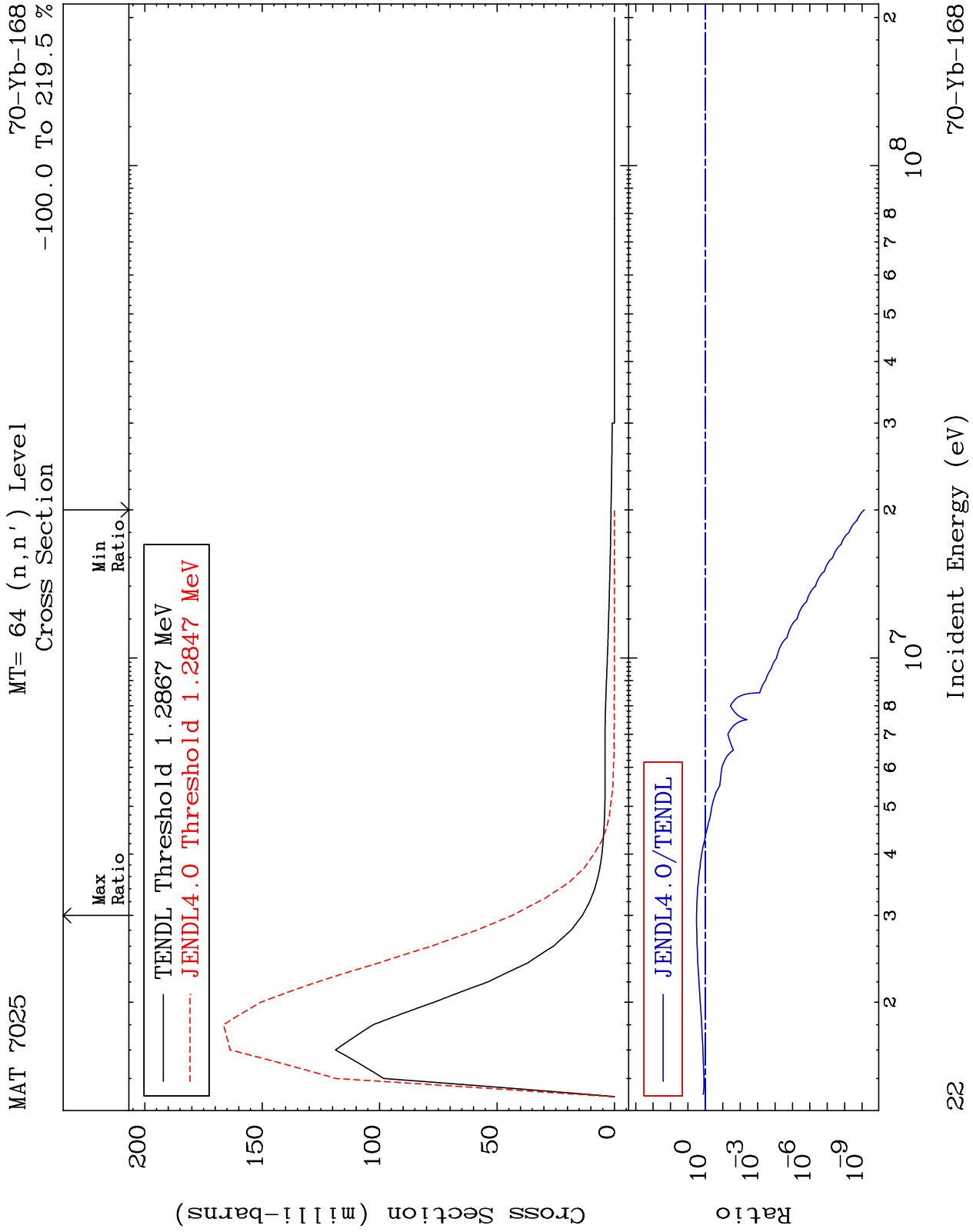
MAT 7025

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

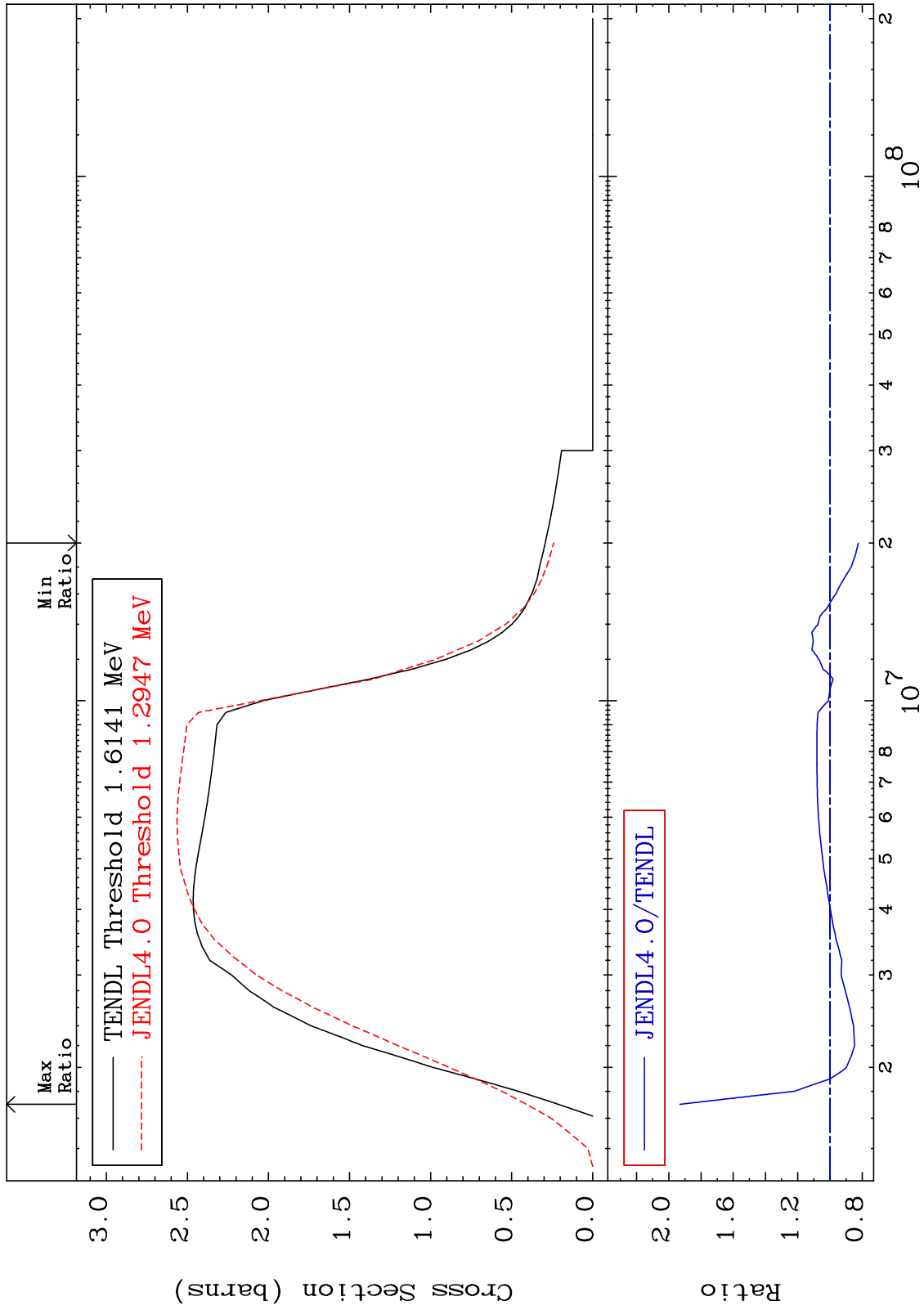
70-Yb-168  
-100.0 To 132.4 %







MAT 7025 (n, n') Continuum Cross Section 70-Yb-168 -17.65 To 93.04 %

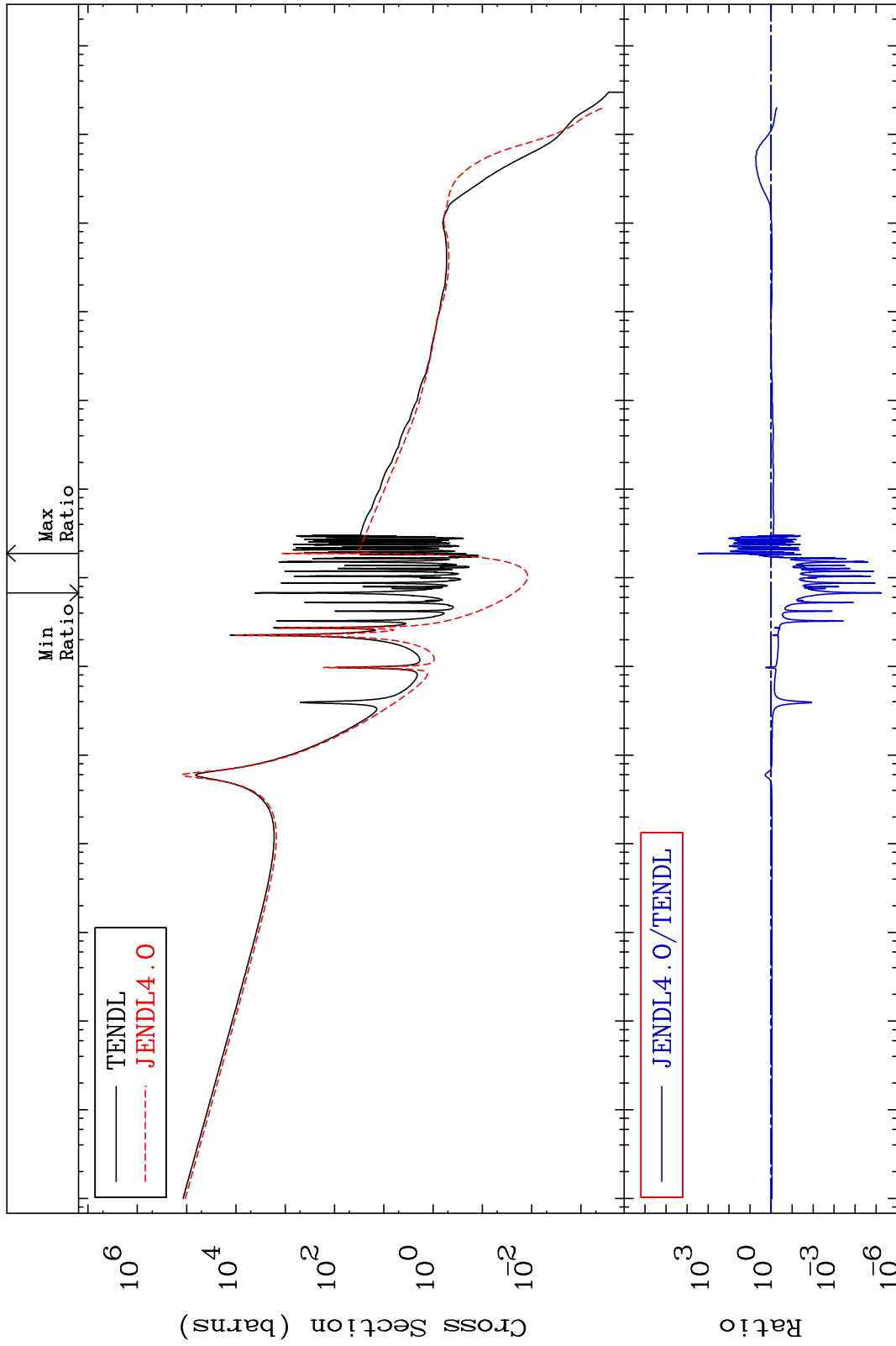




MAT 7025

(n,  $\gamma$ )  
Cross Section

70-Yb-168  
-100.0 To 9999. %



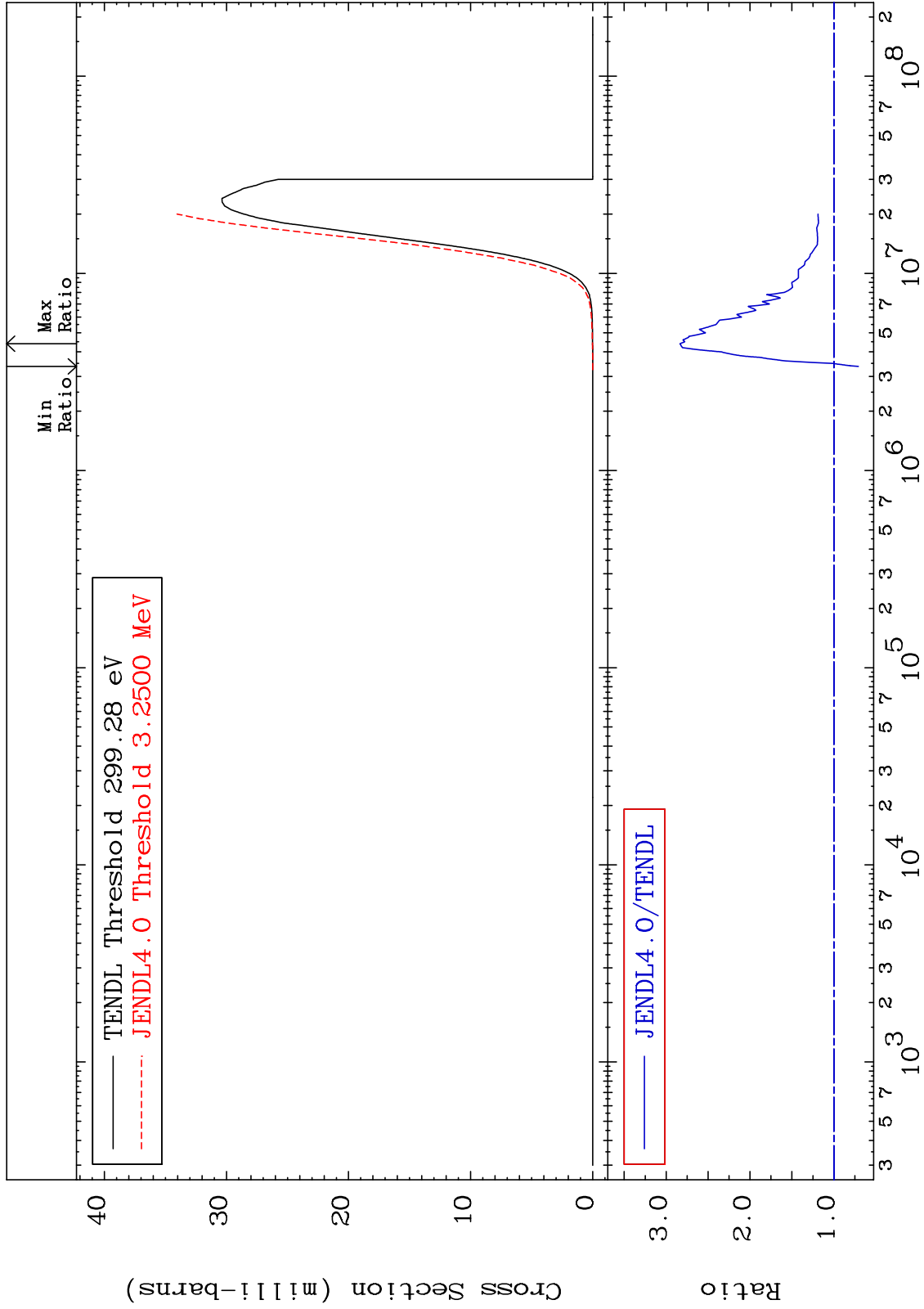
MAT 7025

(n, p)

70-Yb-168

Cross Section

-29.24 To 183.4 %



25

Incident Energy (eV)

70-Yb-168

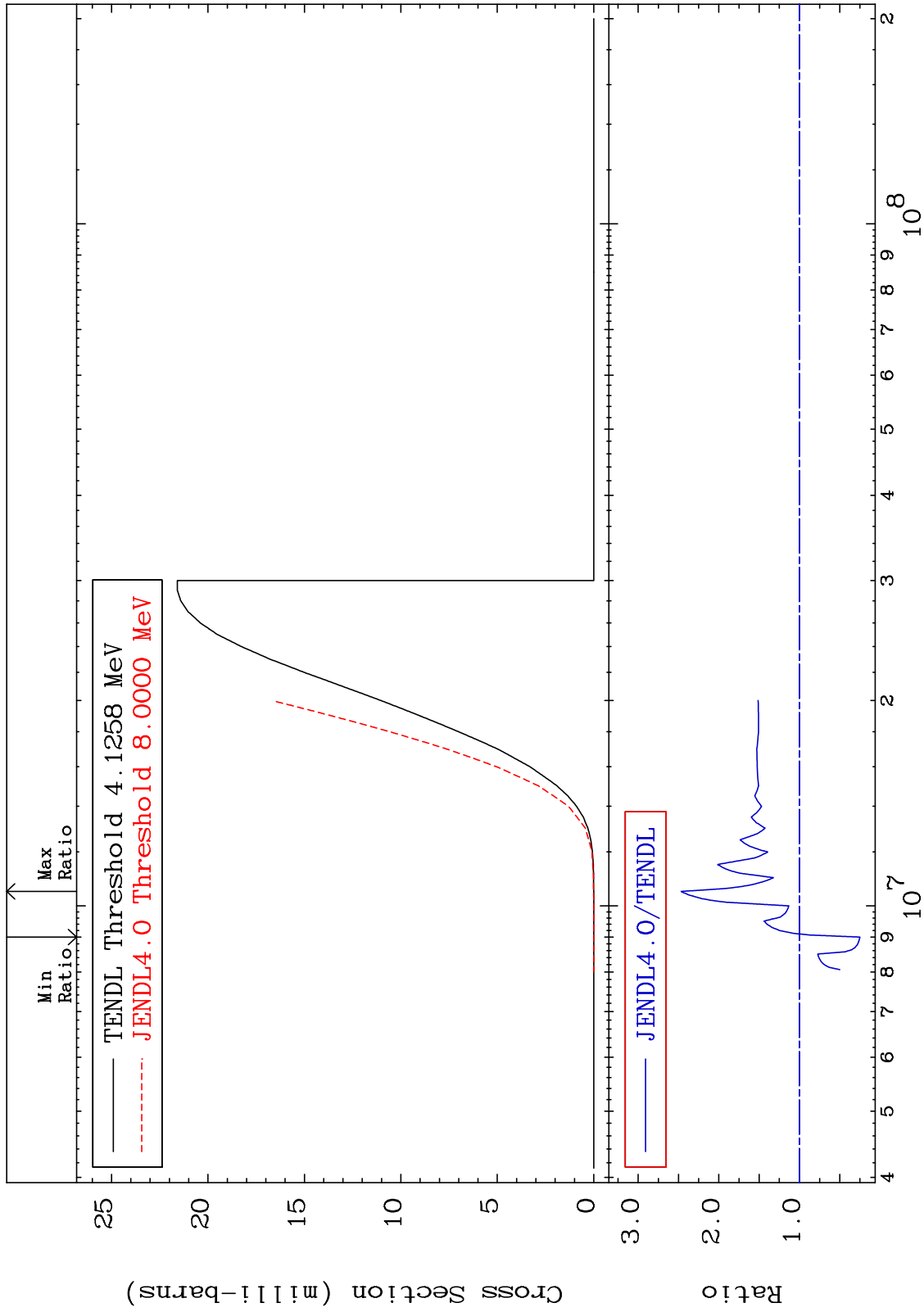
MAT 7025

(n, d)

70-Yb-168

Cross Section

-74.99 To 146.6 %



MAT 7025

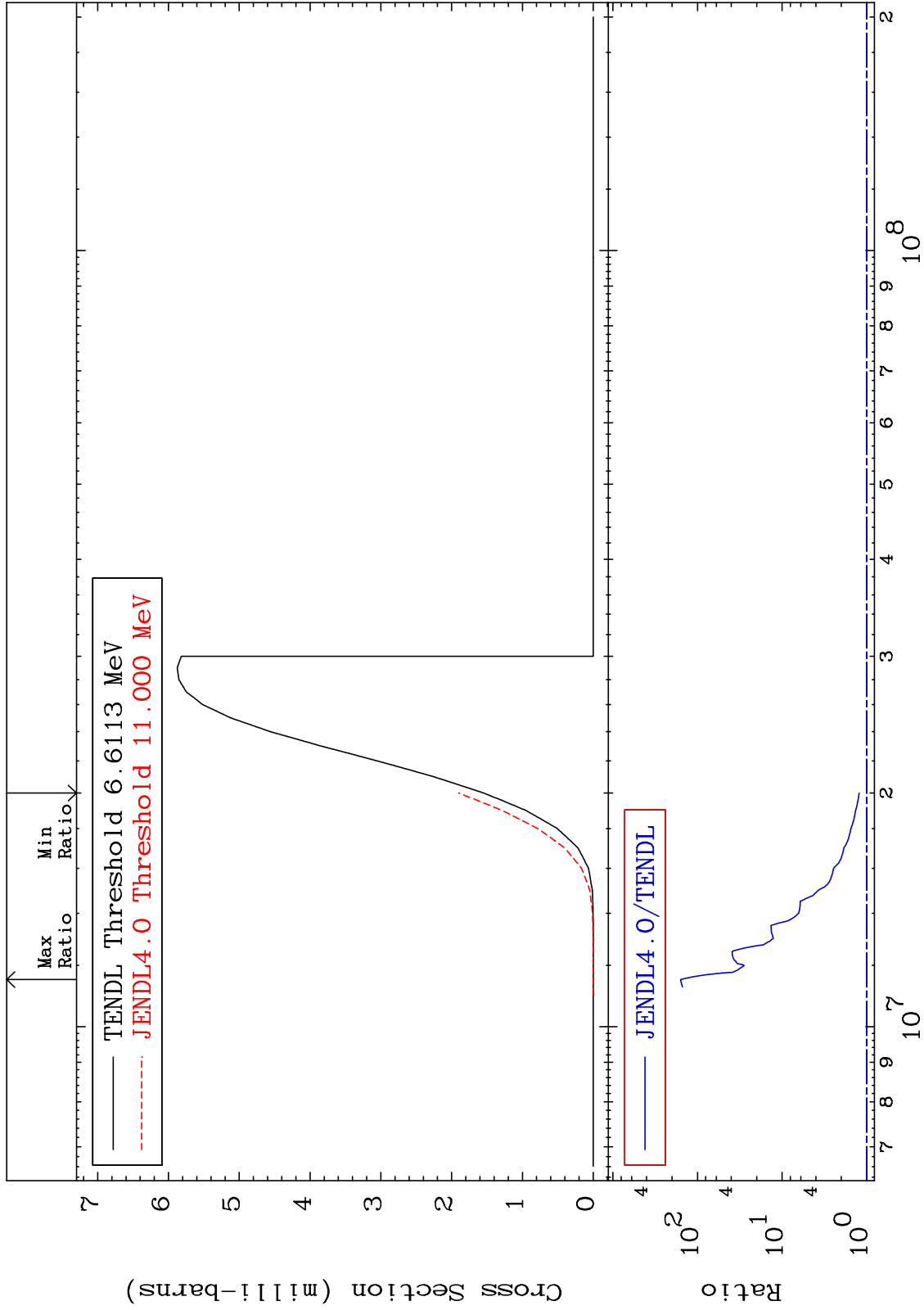
(n, t)

70-Yb-168

Cross Section

22.87

To 9999. %



27

Incident Energy (eV)

70-Yb-168

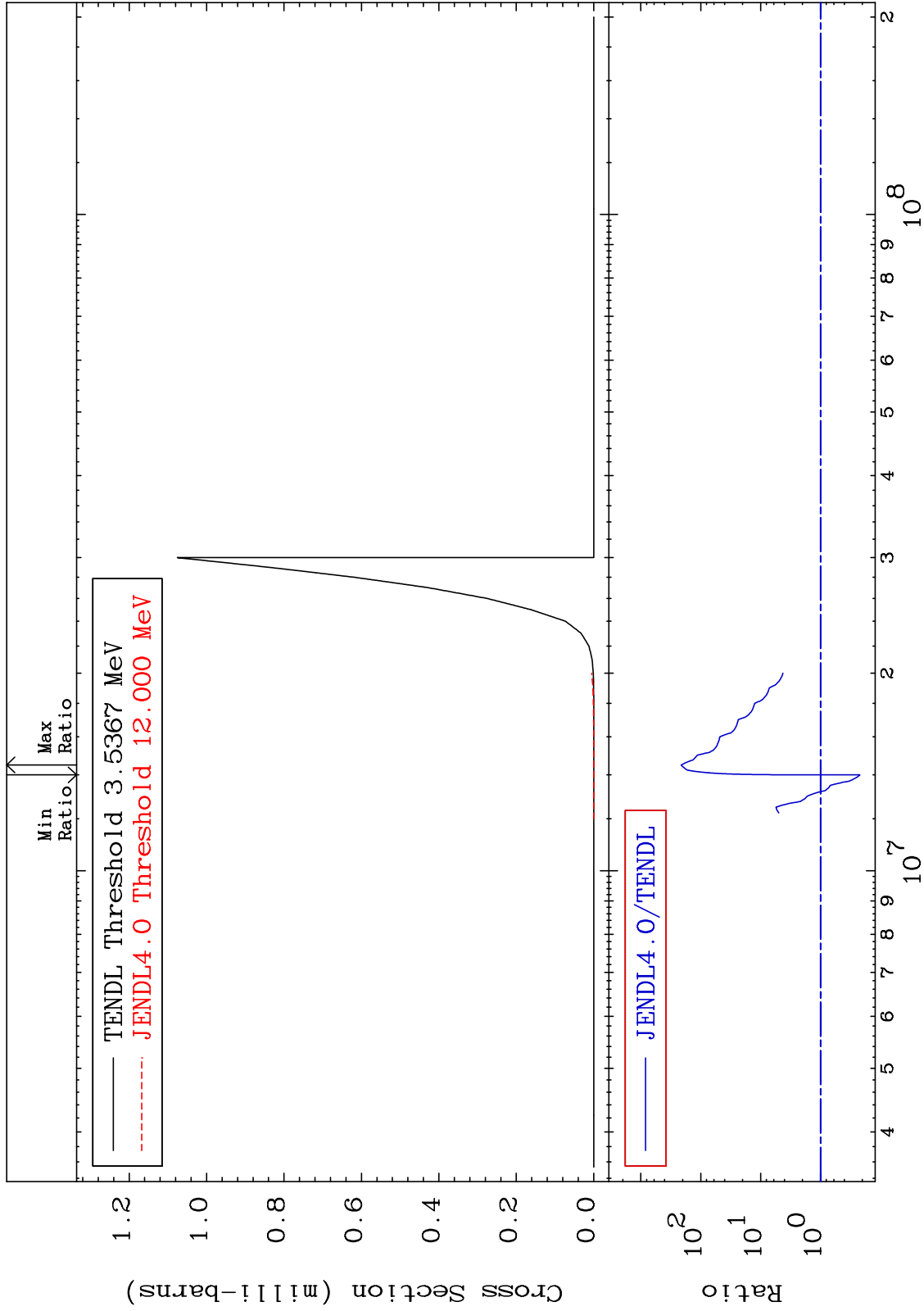
MAT 7025

(n, He-3)

70-Yb-168

Cross Section

-78.05 To 9999. %

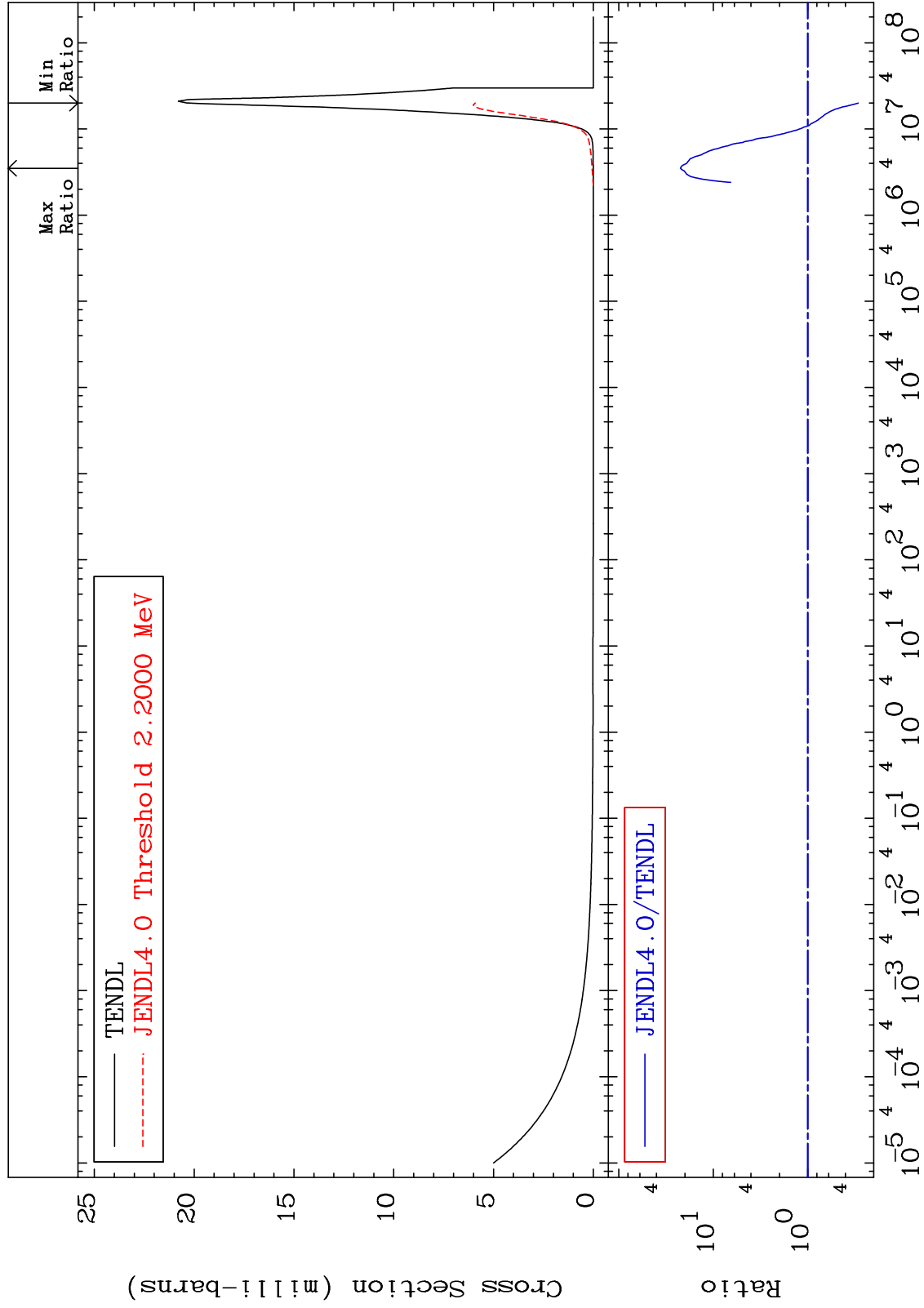


MAT 7025

(n,  $\alpha$ )

Cross Section

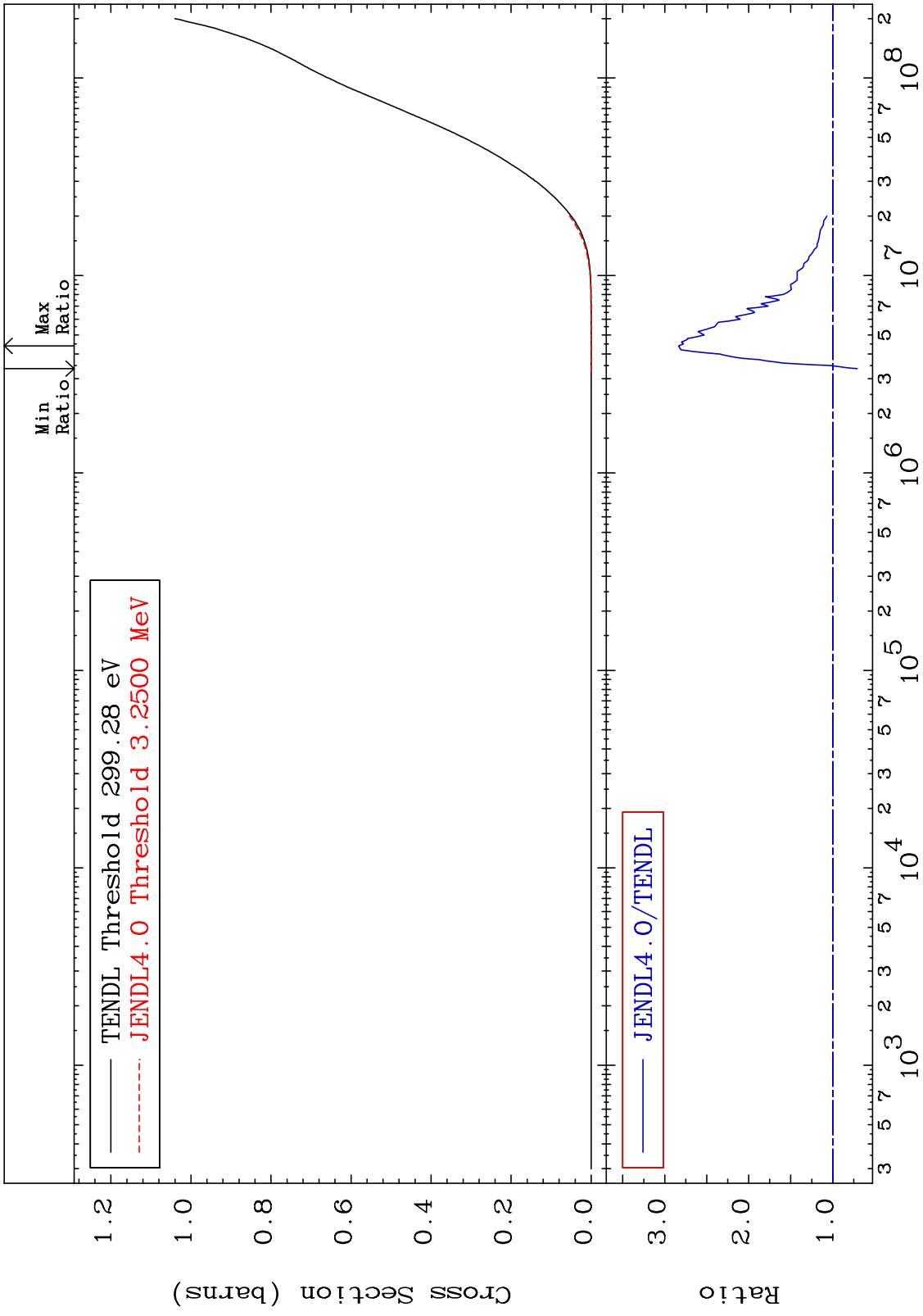
70-Yb-168  
-70.96 To 2128. %



MAT 7025

Hydrogen Production  
Cross Section

70-Yb-168  
-29.24 To 183.4 %



30

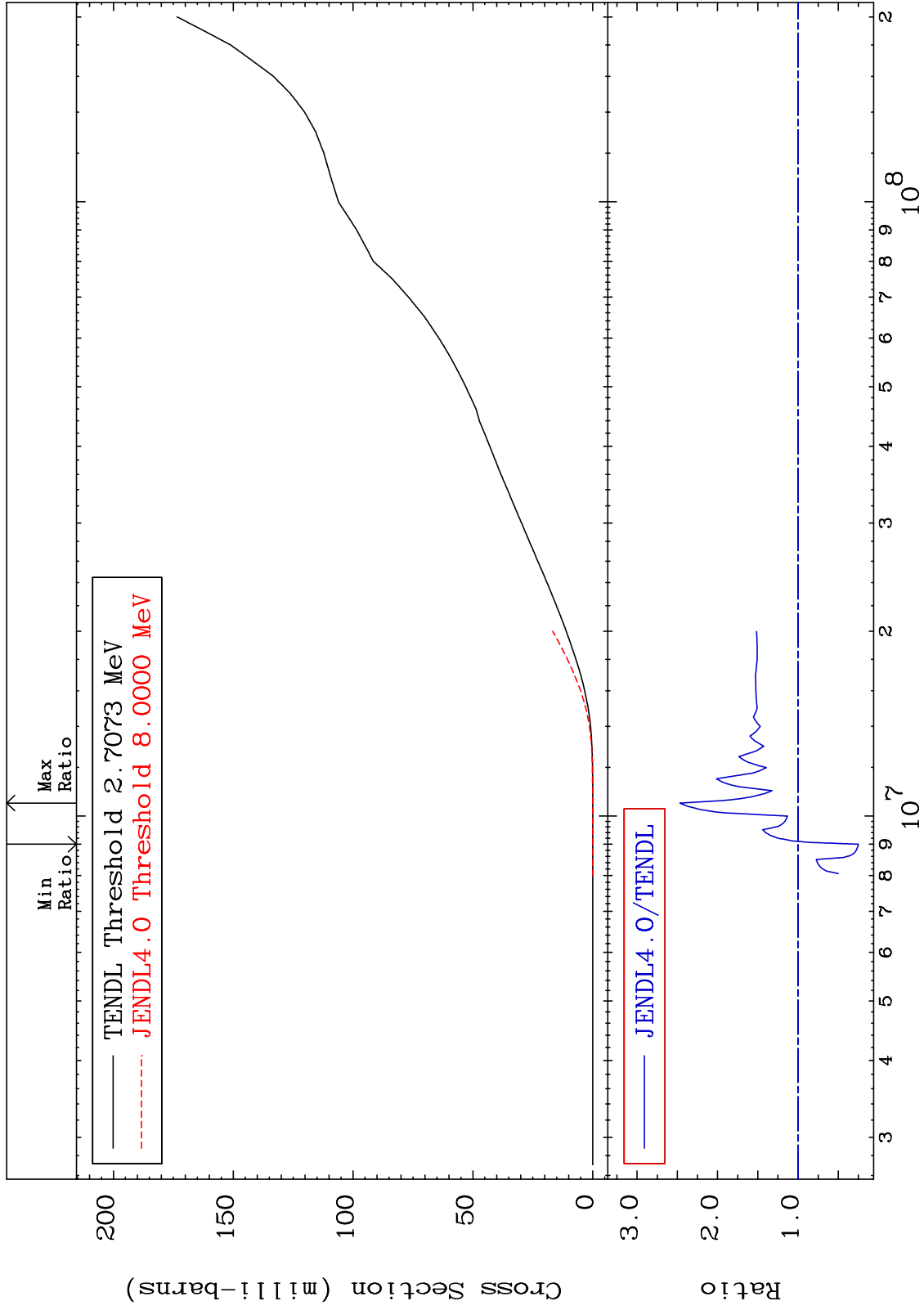
Incident Energy (eV)

70-Yb-168

MAT 7025

Deuterium Production  
Cross Section

<sup>70</sup>Yb-168  
-74.99 To 146.6 %

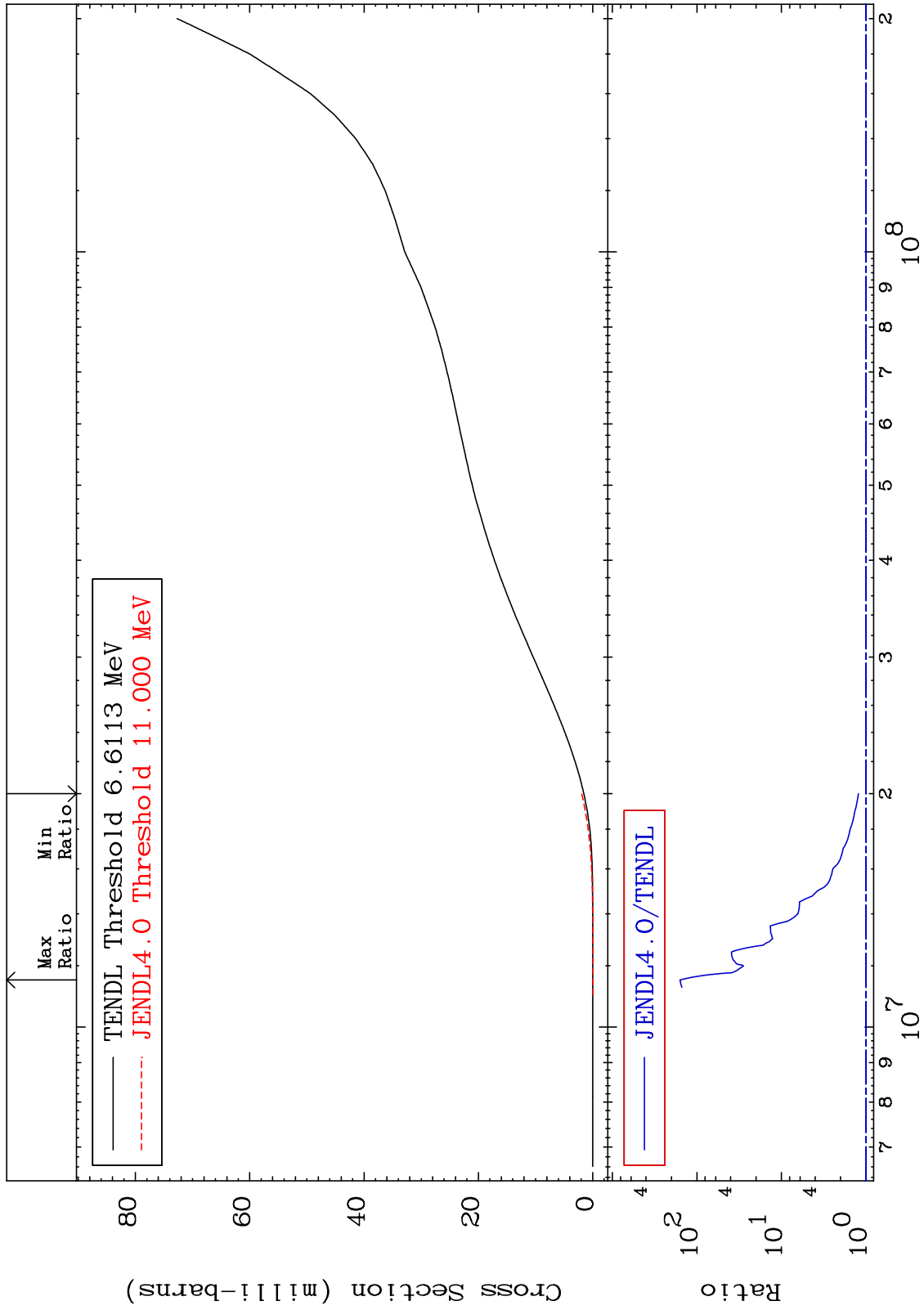




MAT 7025

Tritium Production  
Cross Section

70-Yb-168  
22.86 To 9999. %

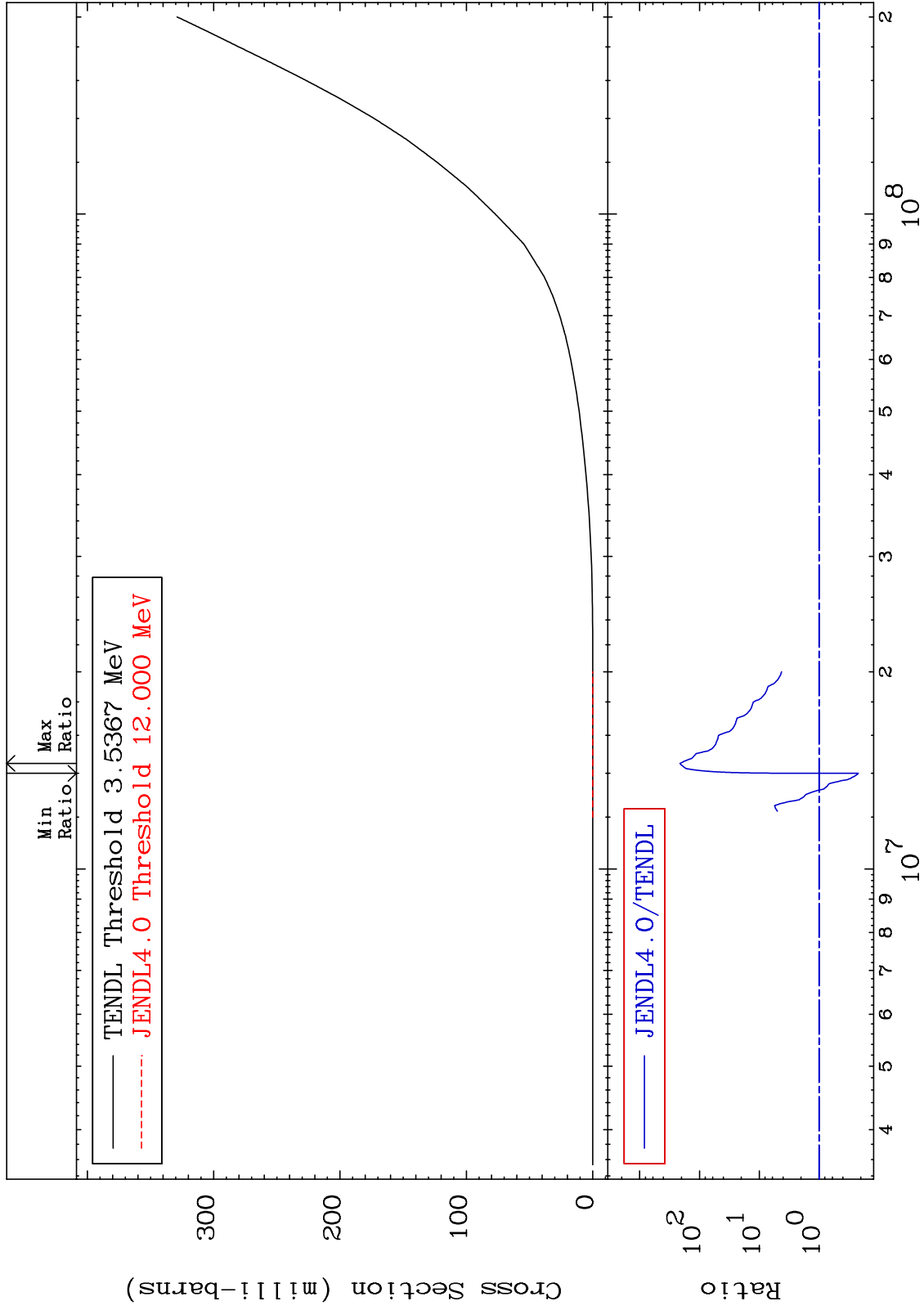


70-Yb-168

MAT 7025

He-3 Production  
Cross Section

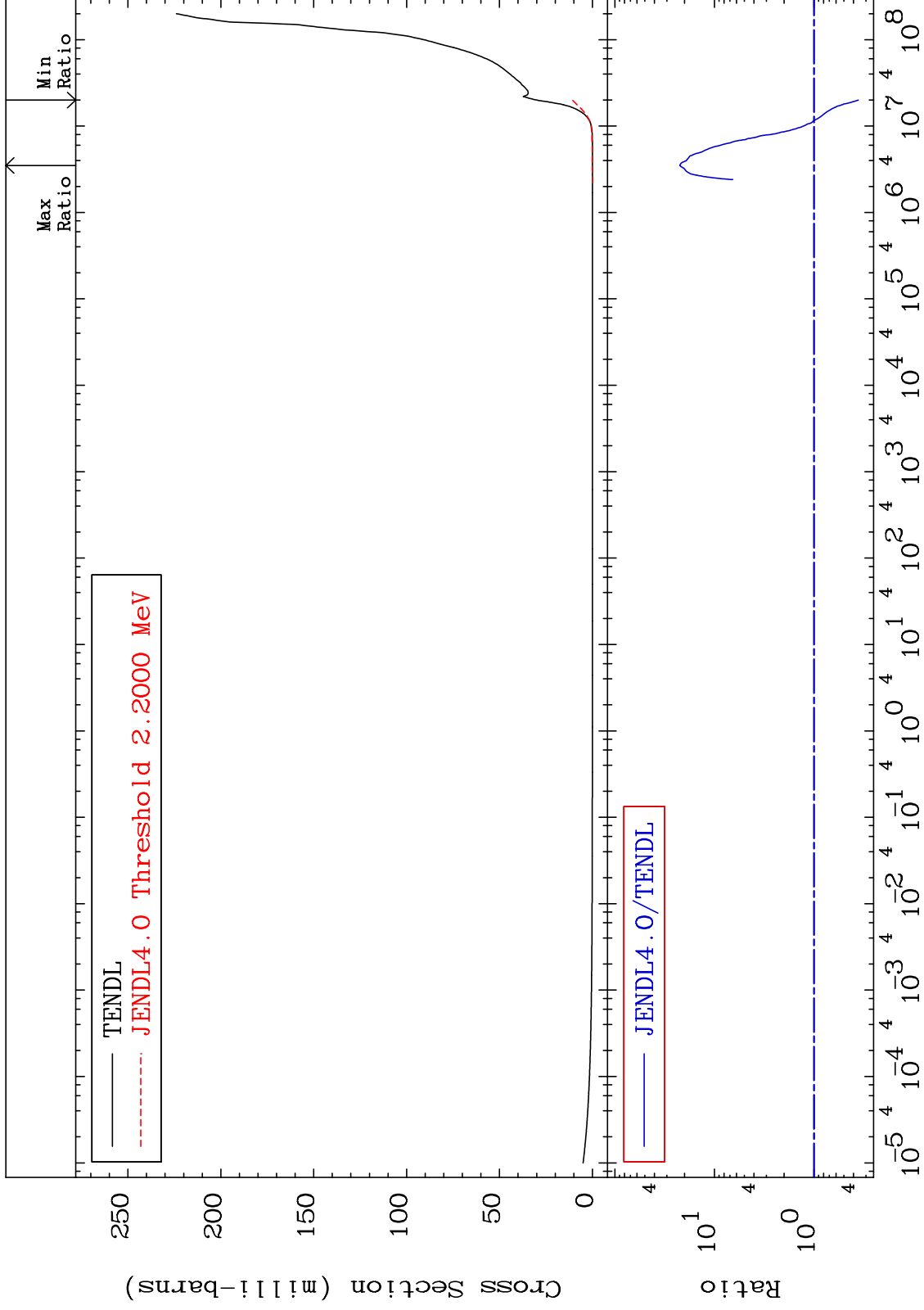
<sup>70</sup>Yb-168  
-78.05 To 9999. %



MAT 7025

He-4 Production  
Cross Section

70-Yb-168  
-64.21 To 2128. %



34

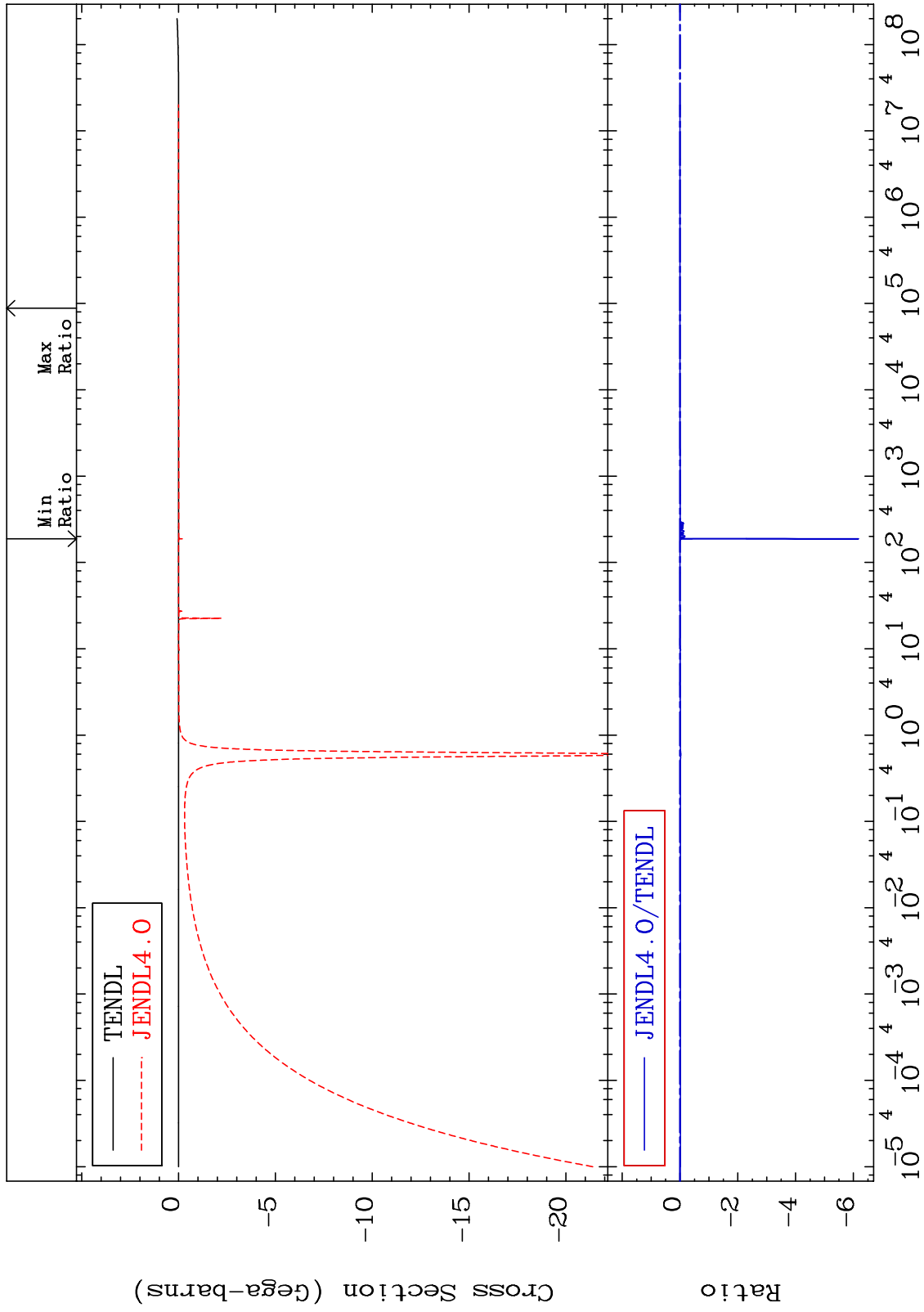
Incident Energy (eV)

70-Yb-168

MAT 7025

Kerma total (eV-barns)  
Cross Section

70-Yb-168  
-9999. To 147.9 %



35

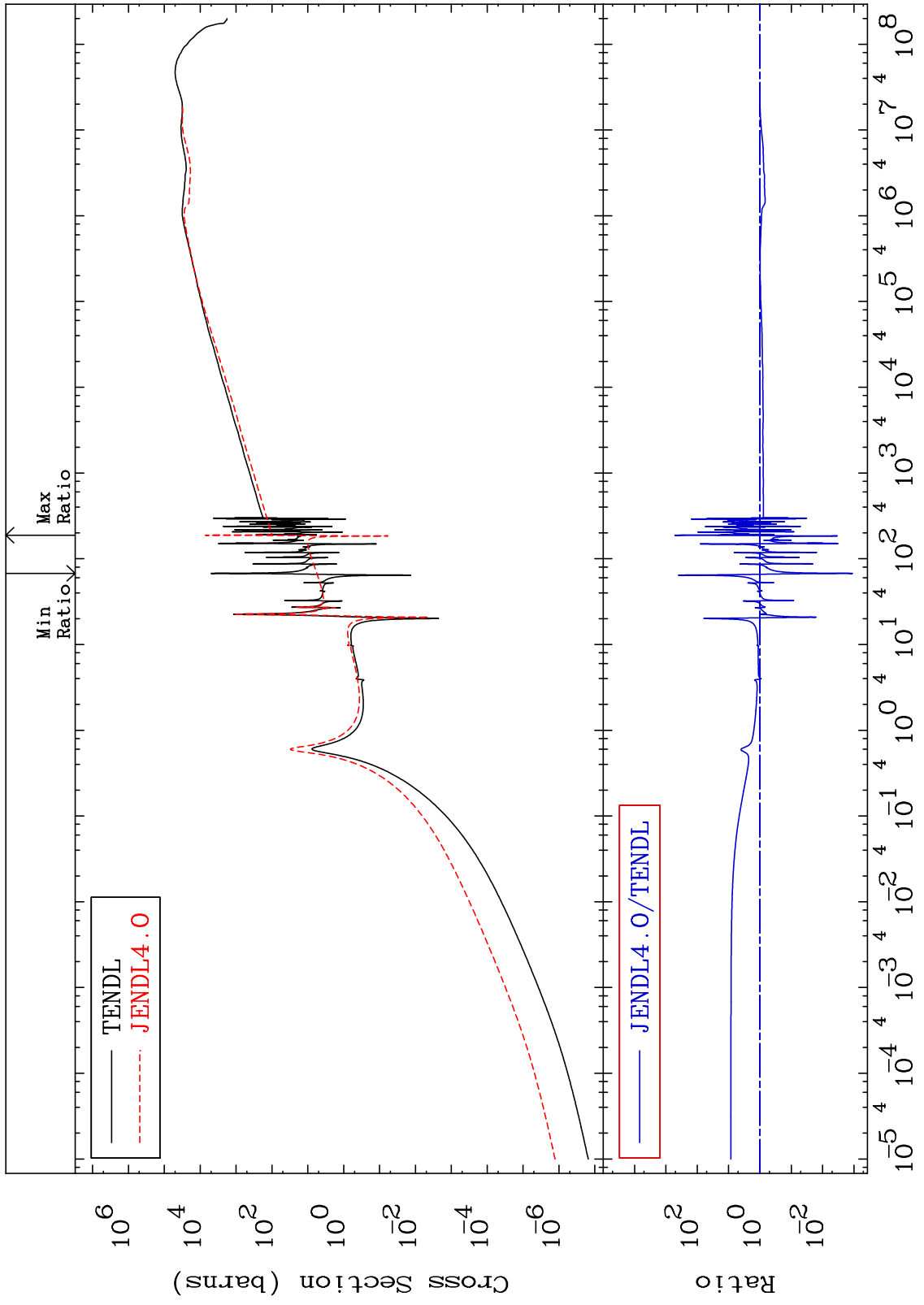
Incident Energy (eV)

70-Yb-168

MAT 7025

Kerma elastic  
Cross Section

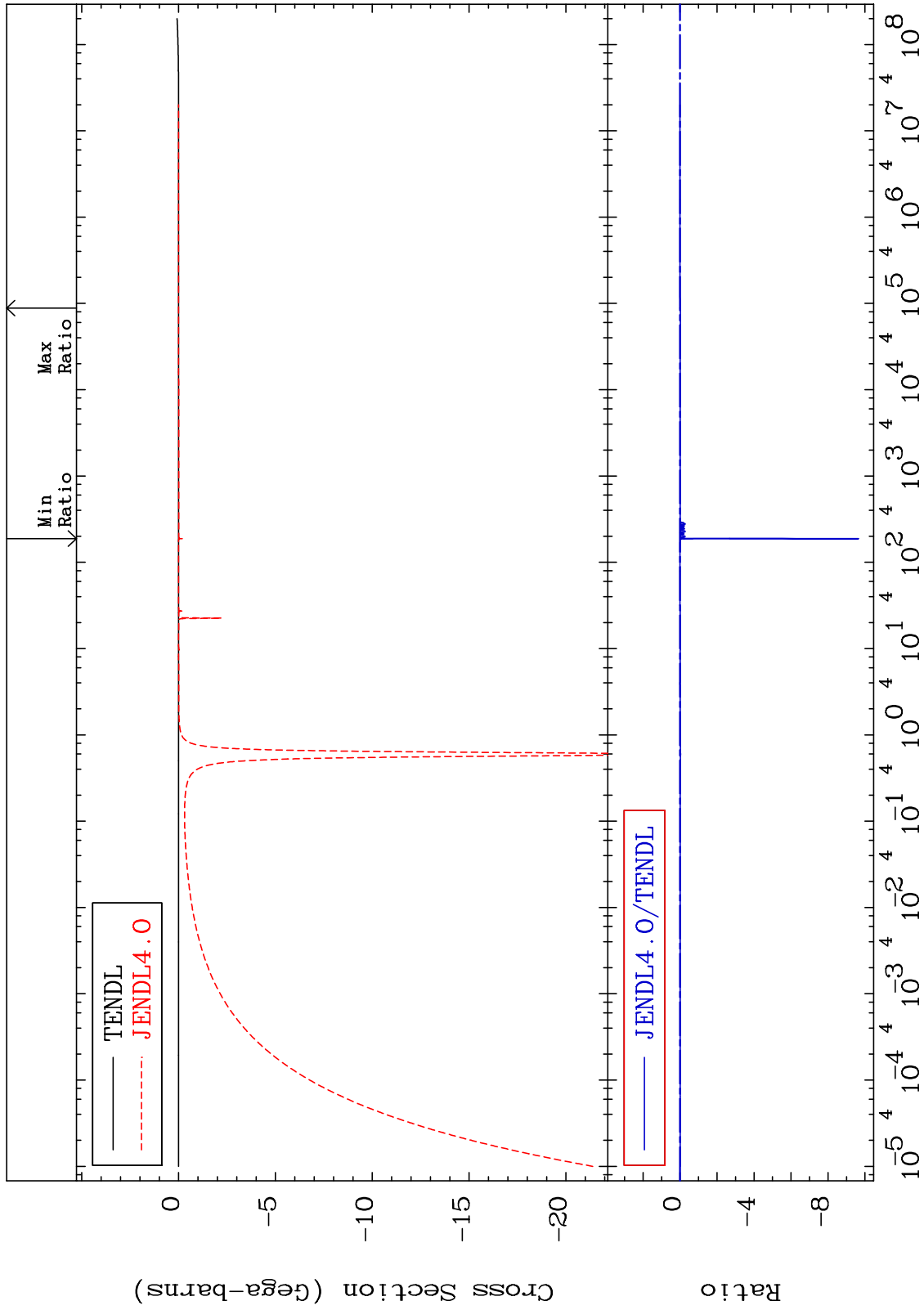
70-Yb-168  
-99.89 To 9999. %



MAT 7025

Kerma non-elastic (all but mt2)  
Cross Section

70-Yb-168  
-9999. To 9999. %



37

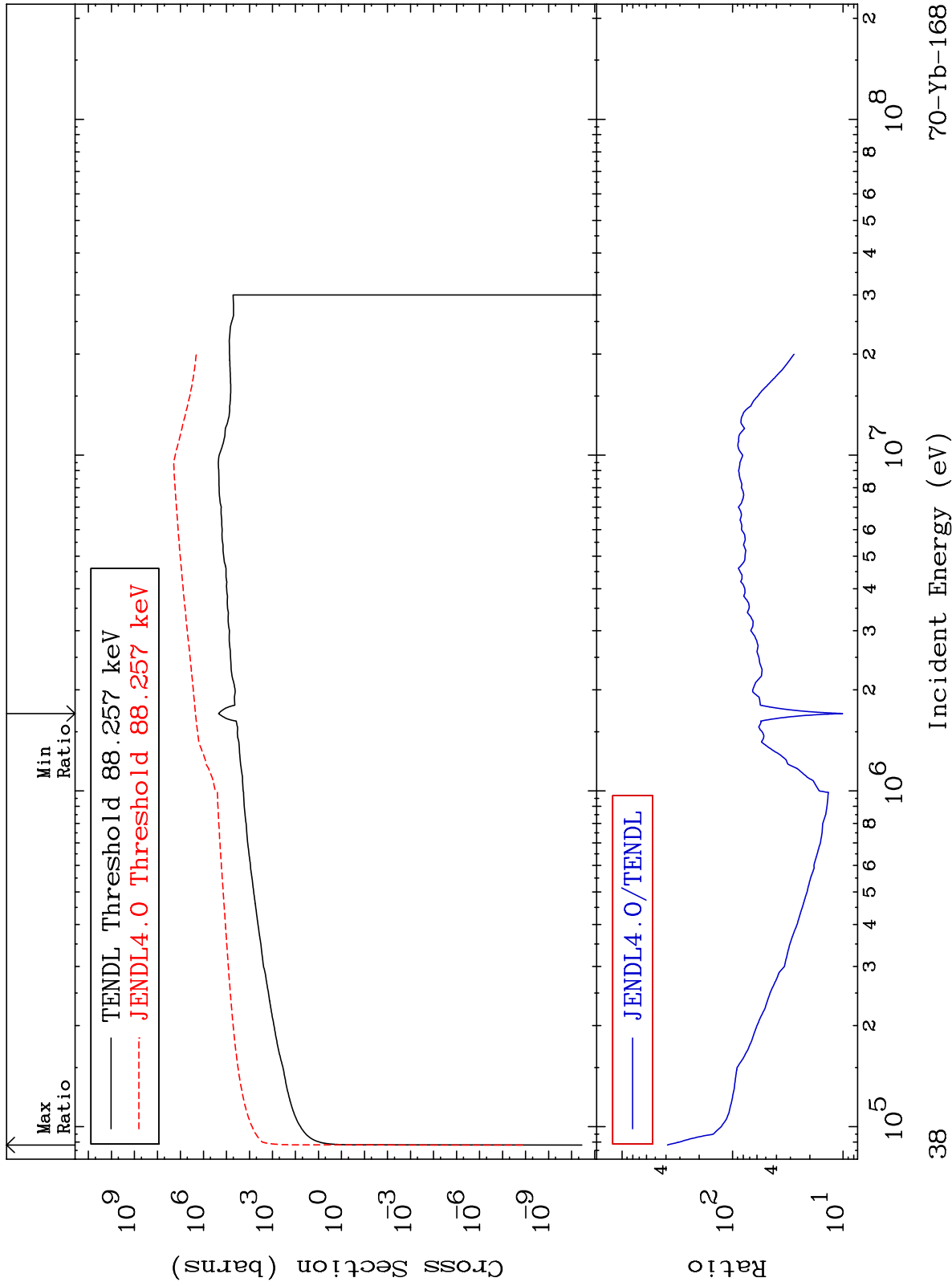
Incident Energy (eV)

70-Yb-168

MAT 7025

Kerma inelastic (mt51-91)  
Cross Section

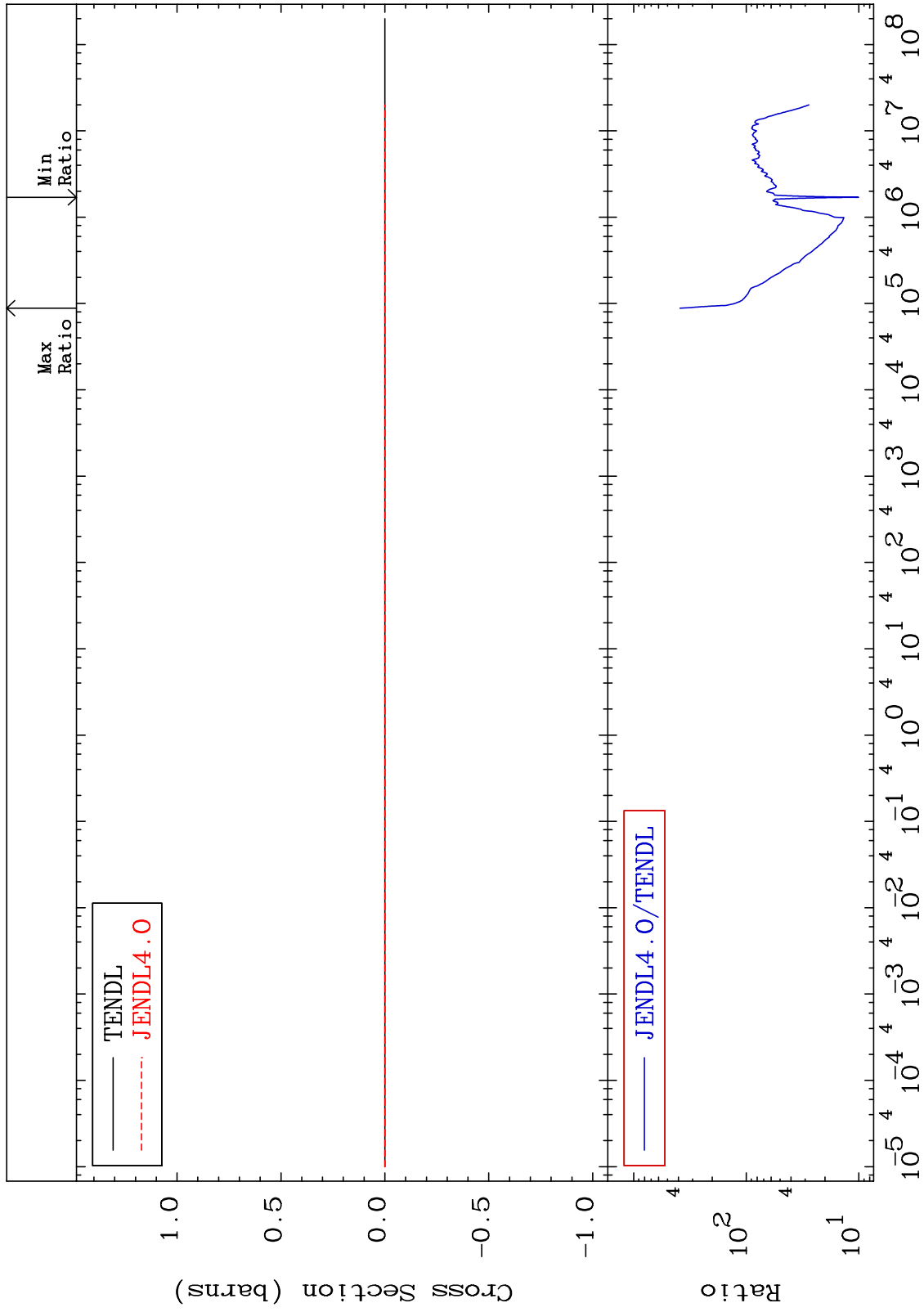
70-Yb-168  
908.2 To 9999. %



MAT 7025

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

70-Yb-168  
908.2 To 9999. %



39

Incident Energy (eV)

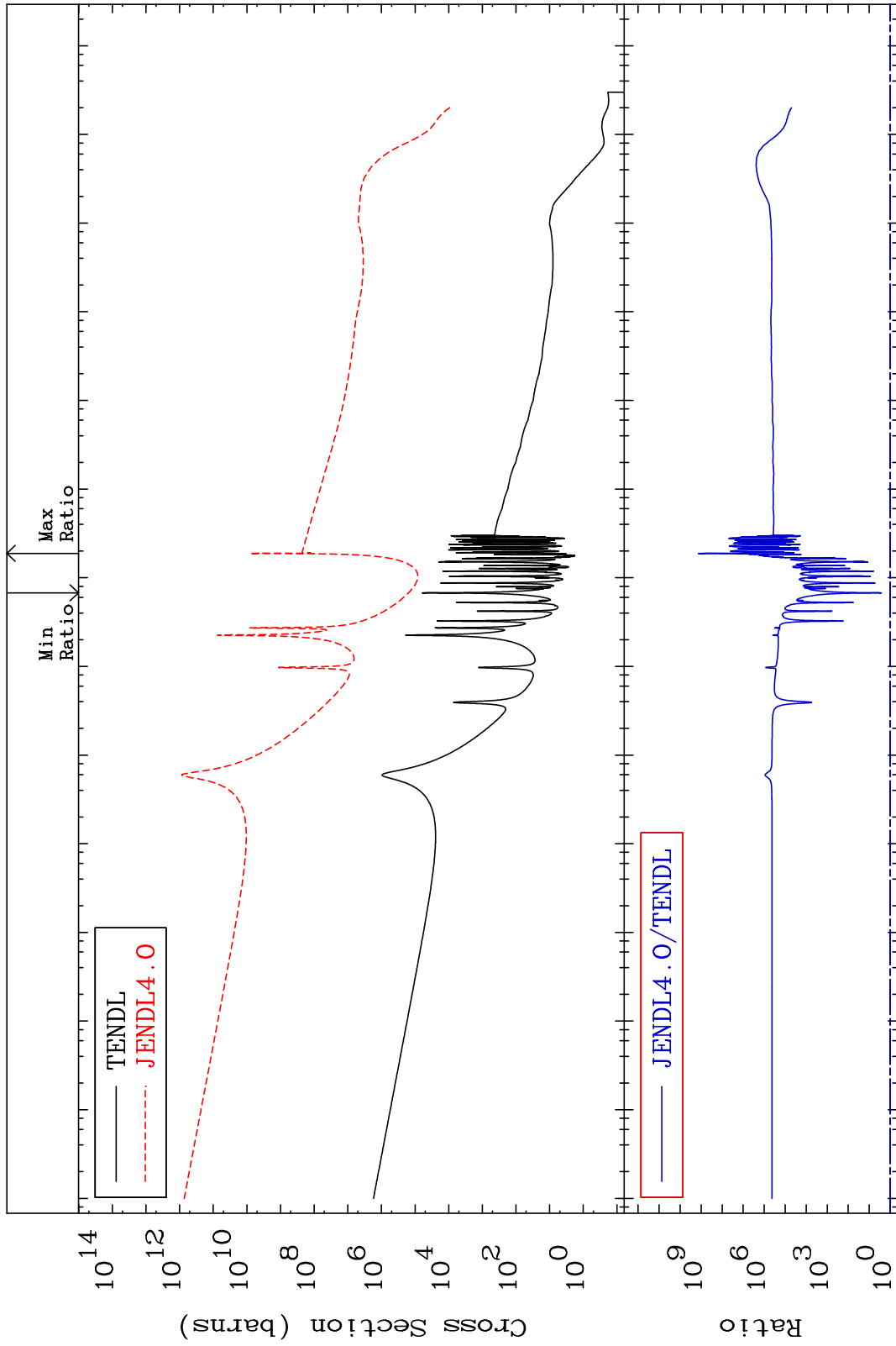
70-Yb-168



MAT 7025

Kerma capture (mt102)  
Cross Section

70-Yb-168  
158.8 To 9999. %



40

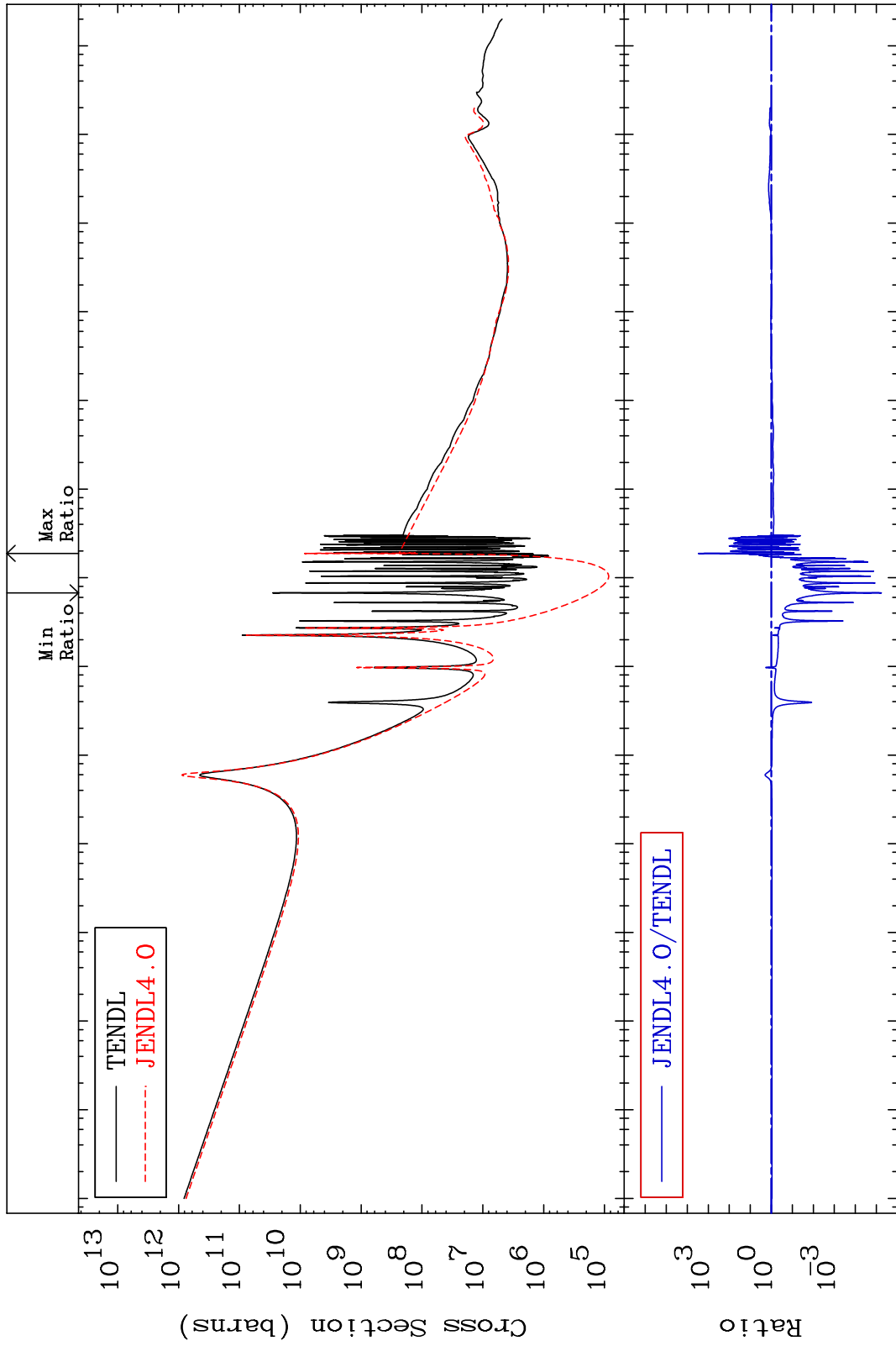
Incident Energy (eV)

70-Yb-168

MAT 7025

Total photon (eV-barns)  
Cross Section

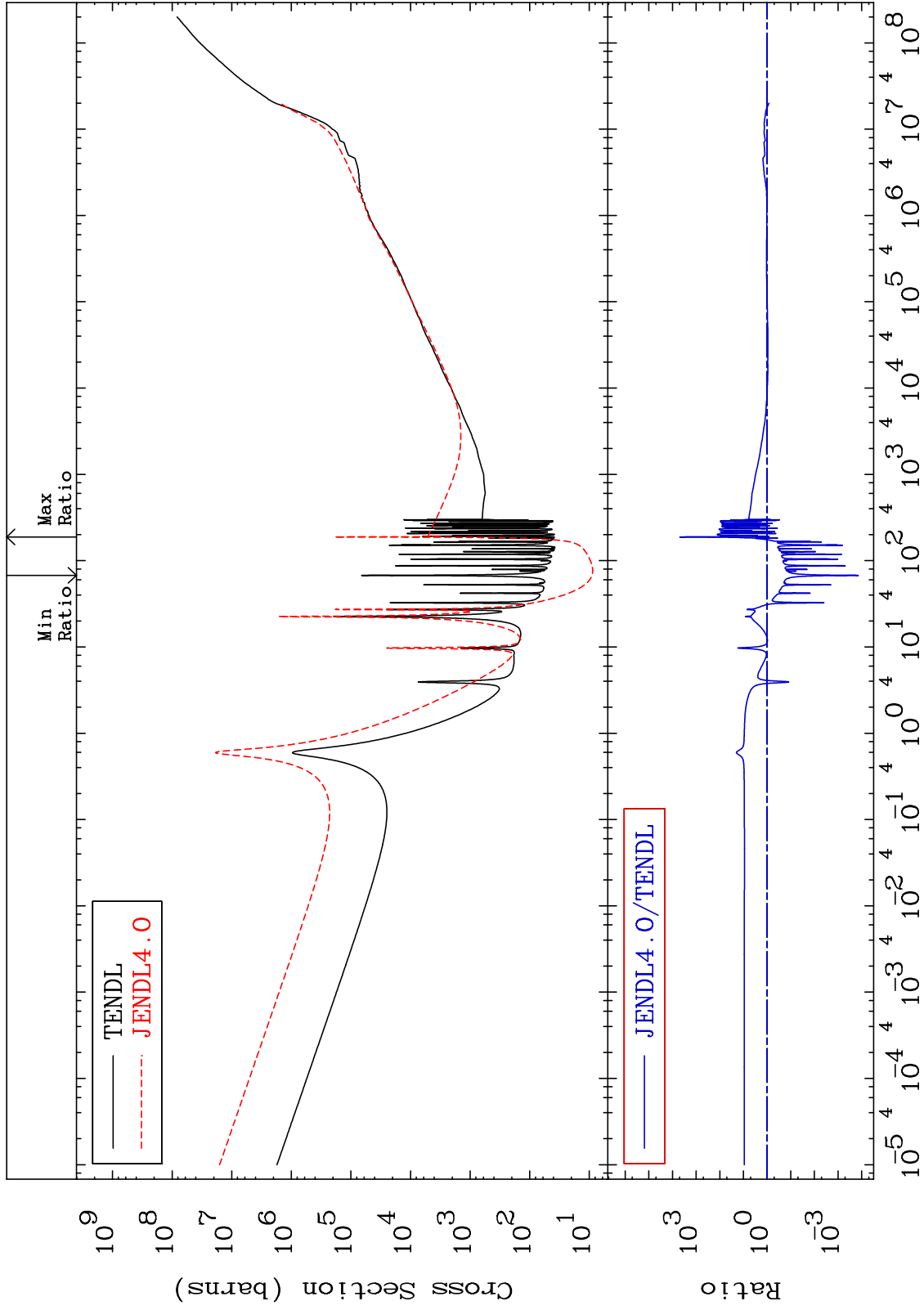
70-Yb-168  
-100.0 To 9999. %



MAT 7025

Total kinematic kerma (high limit)  
Cross Section

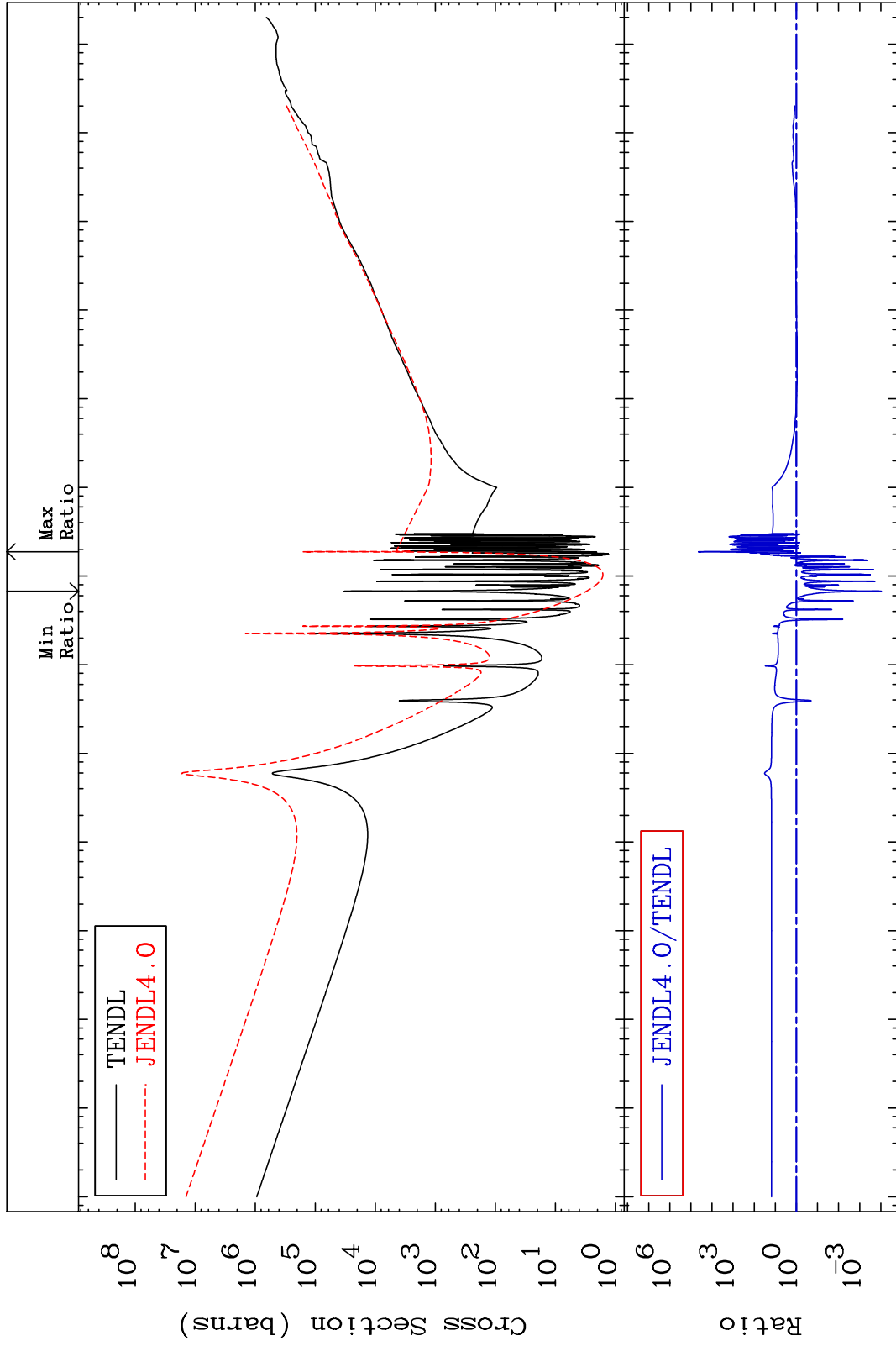
70-Yb-168  
-99.99 To 9999. %



MAT 7025

Dpa total (eV-barns)  
Cross Section

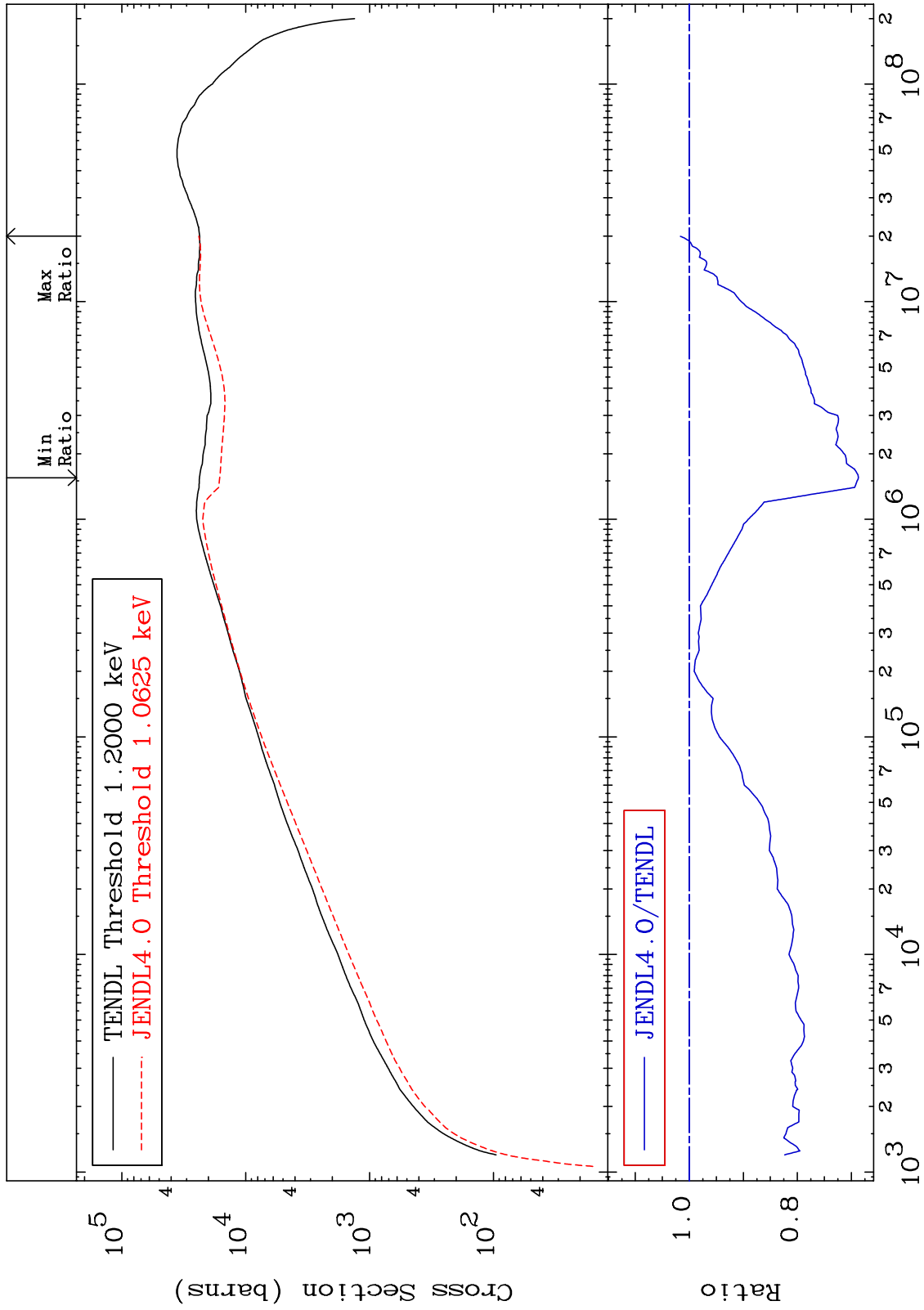
70-Yb-168  
-99.99 To 9999. %



MAT 7025

Dpa elastic (mt2)  
Cross Section

70-Yb-168  
-31.31 To 1.725 %



44

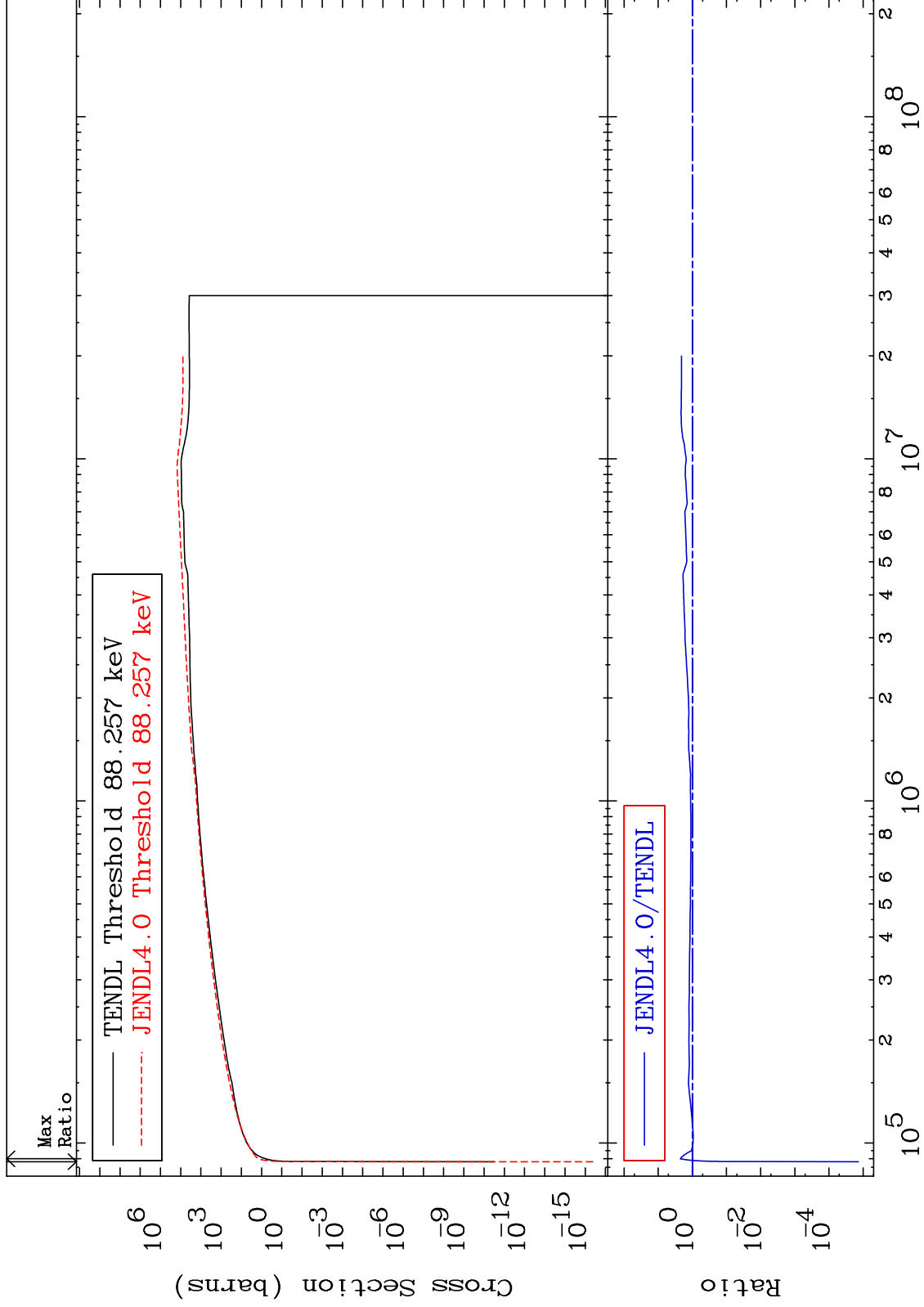
Incident Energy (eV)

70-Yb-168

MAT 7025

Dpa inelastic (mt51-91)  
Cross Section

70-Yb-168  
-100.0 To 129.9 %



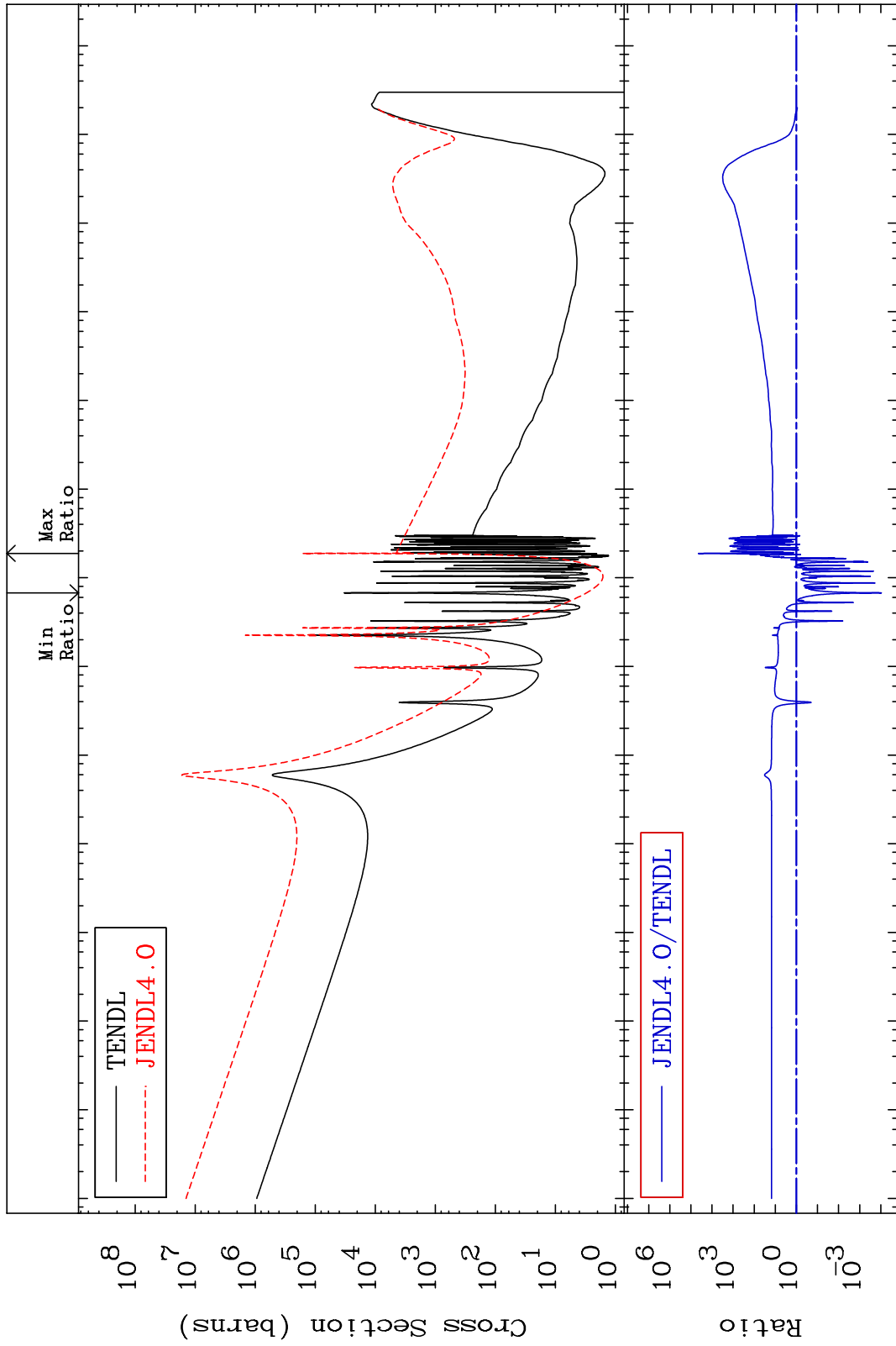
45

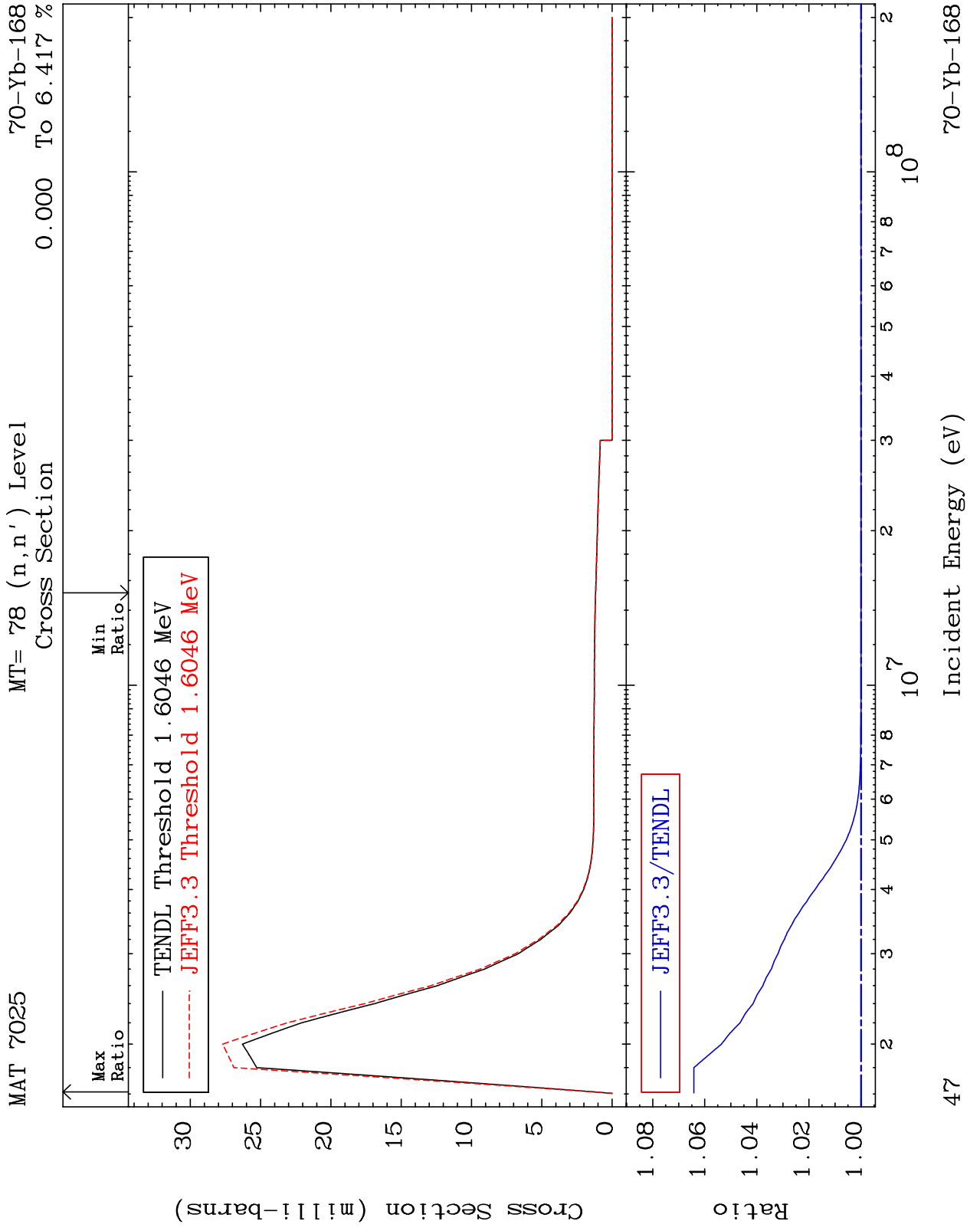
70-Yb-168

MAT 7025

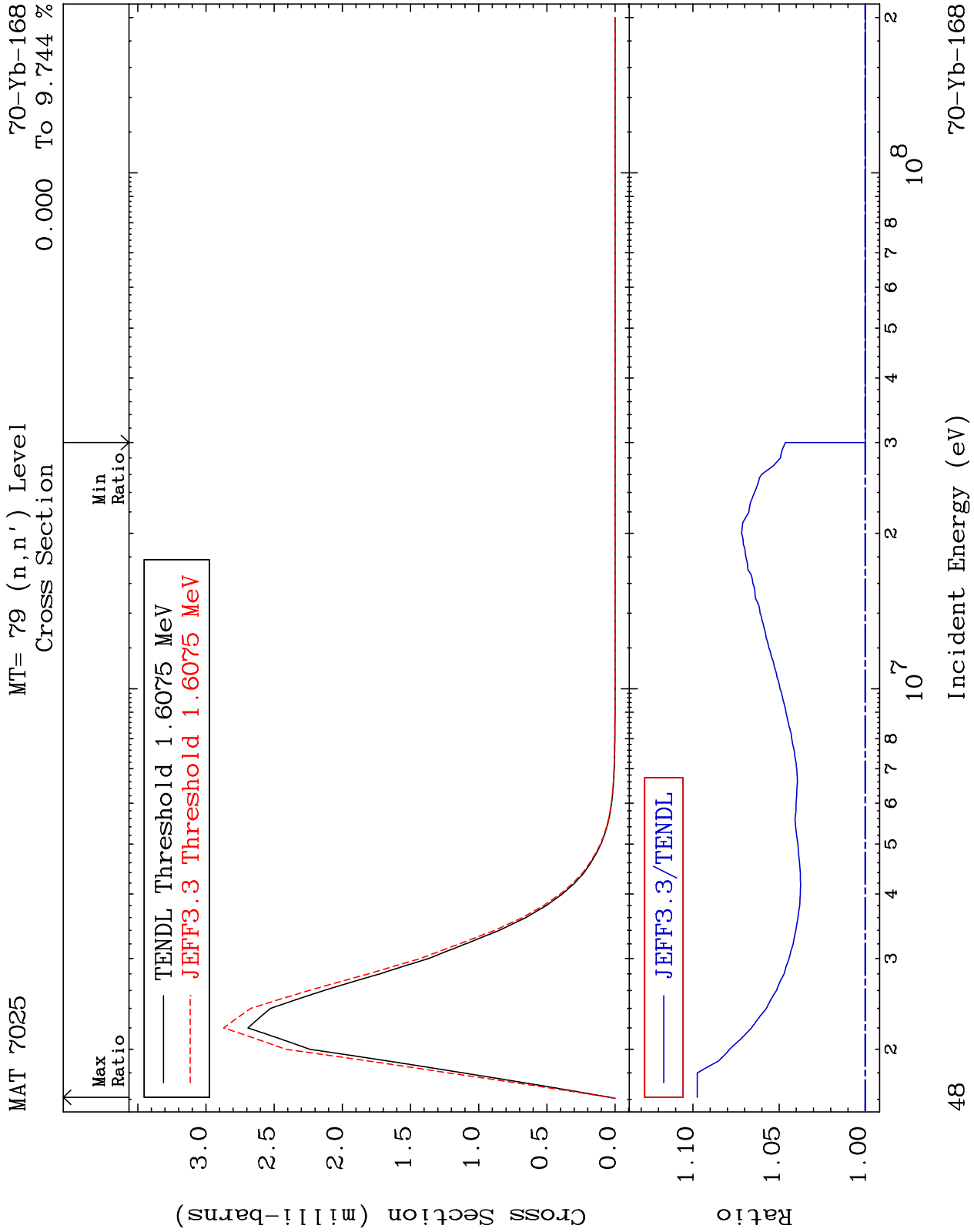
Dpa disappearance (mt102 -120)  
Cross Section

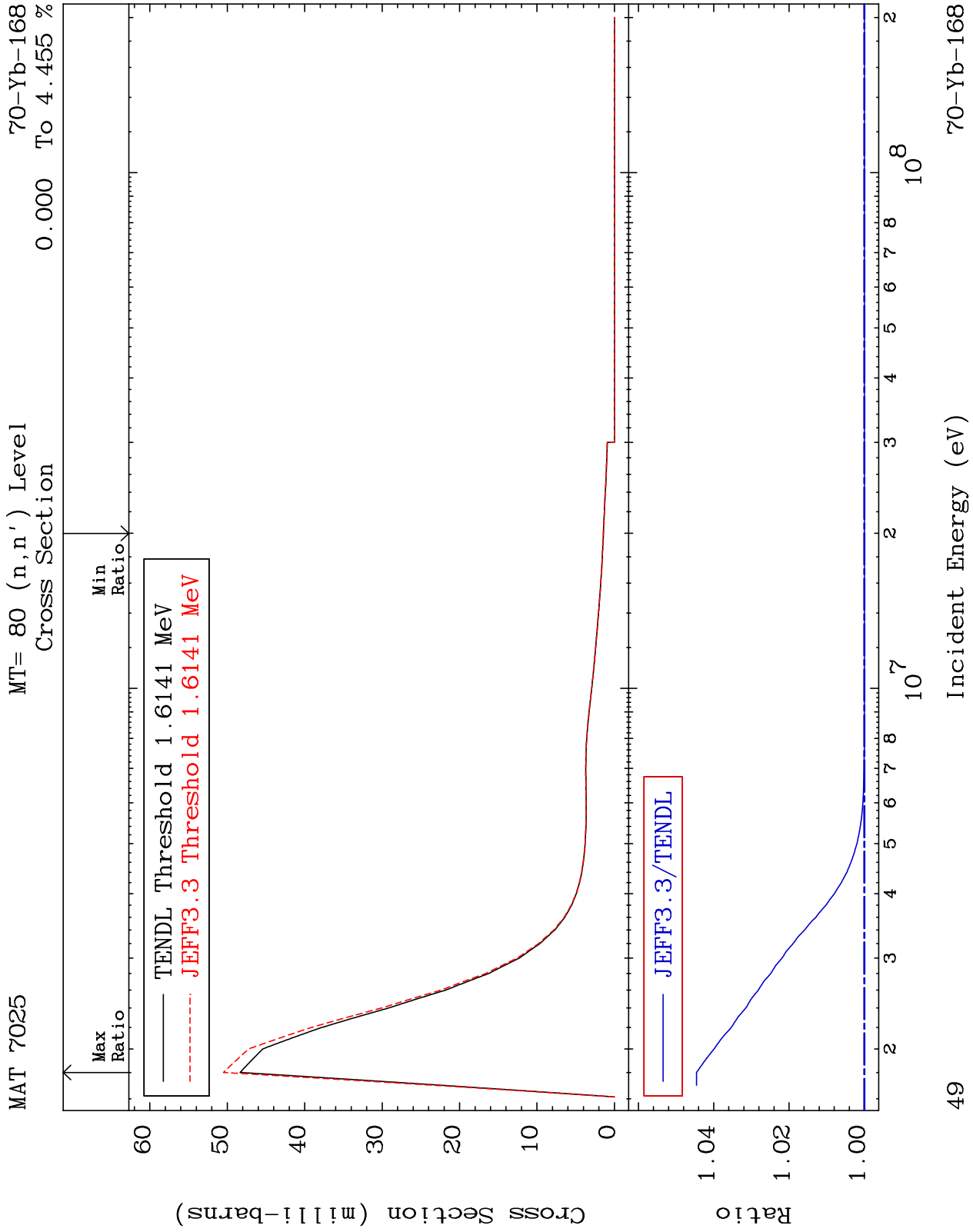
70-Yb-168  
-99.99 To 9999. %







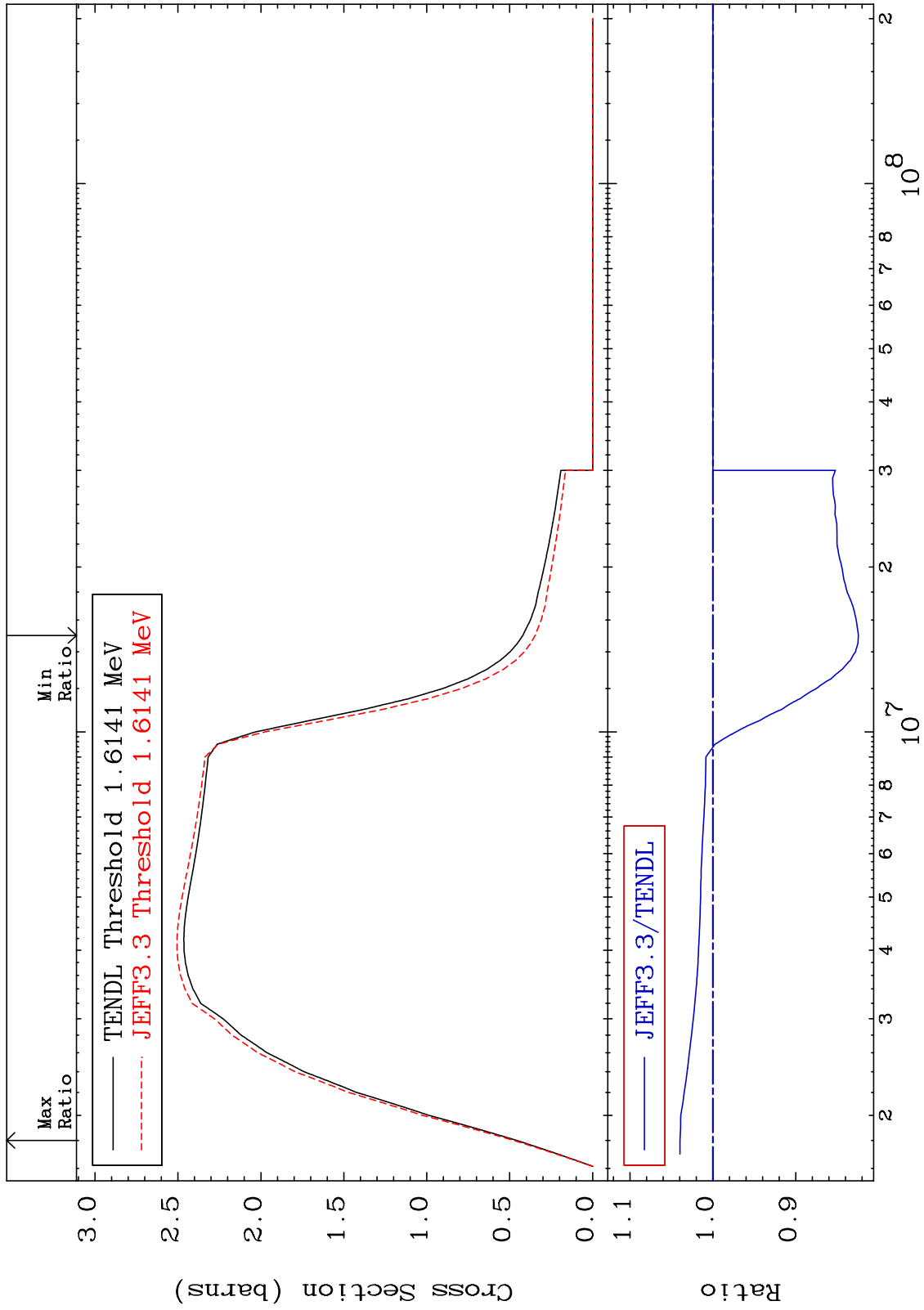




MAT 7025

(n, n') Continuum  
Cross Section

70-Yb-168  
-17.57 To 3.959 %



50

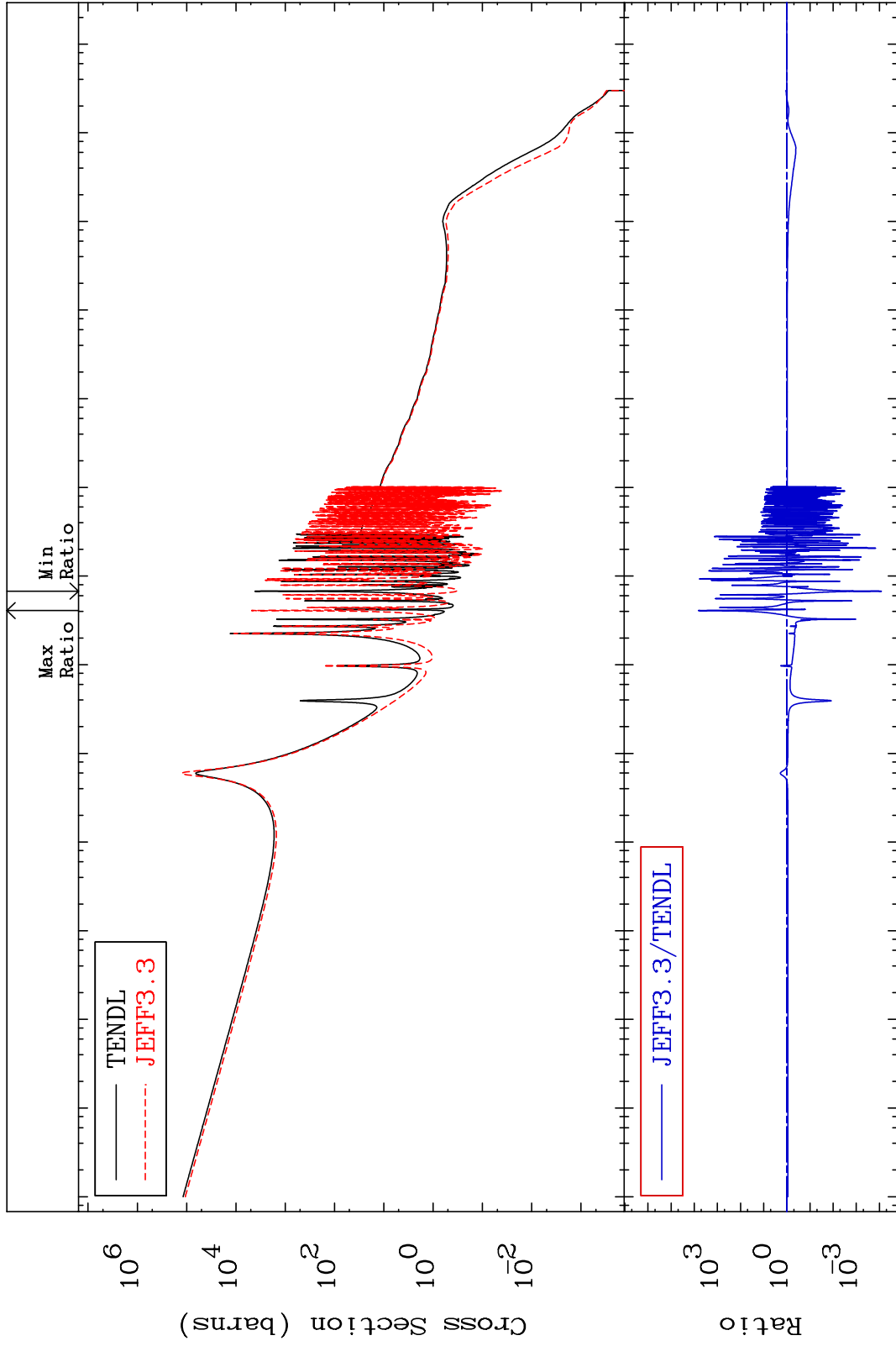
Incident Energy (eV)

70-Yb-168

MAT 7025

(n,  $\gamma$ )  
Cross Section

70-Yb-168  
-99.99 To 9999. %



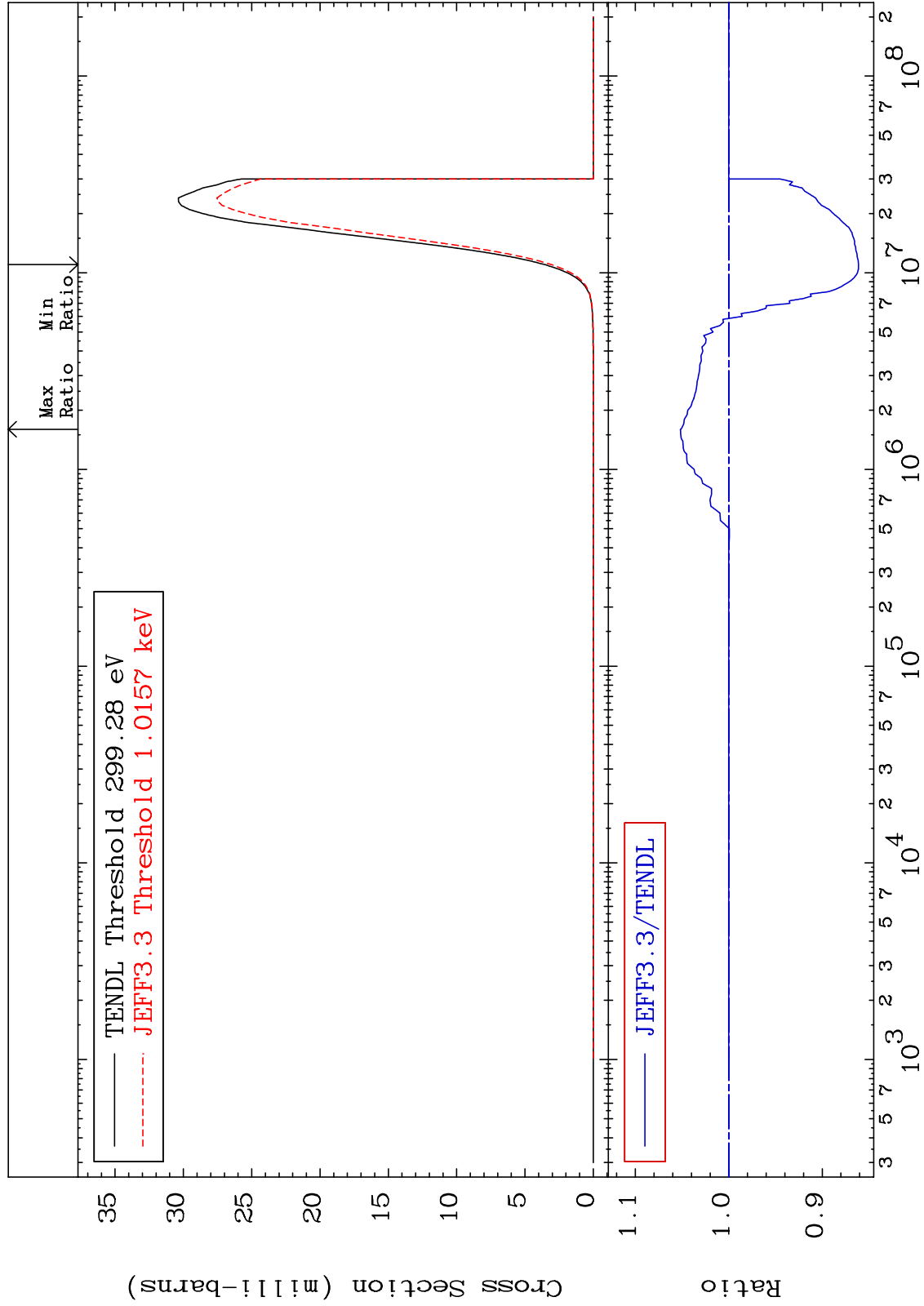
MAT 7025

(n,p)

70-Yb-168

Cross Section

-13.88 To 5.174 %



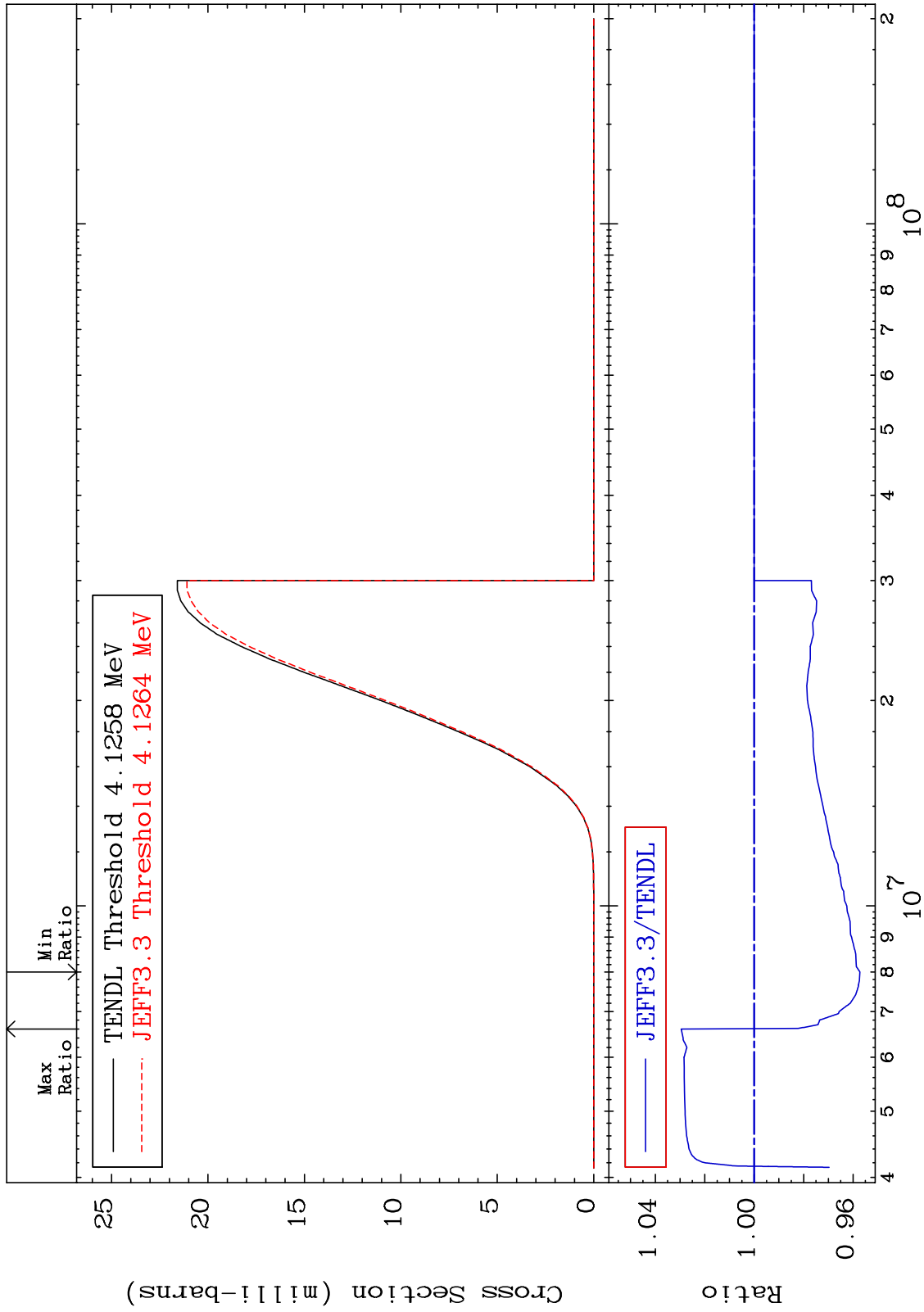
MAT 7025

(n, d)

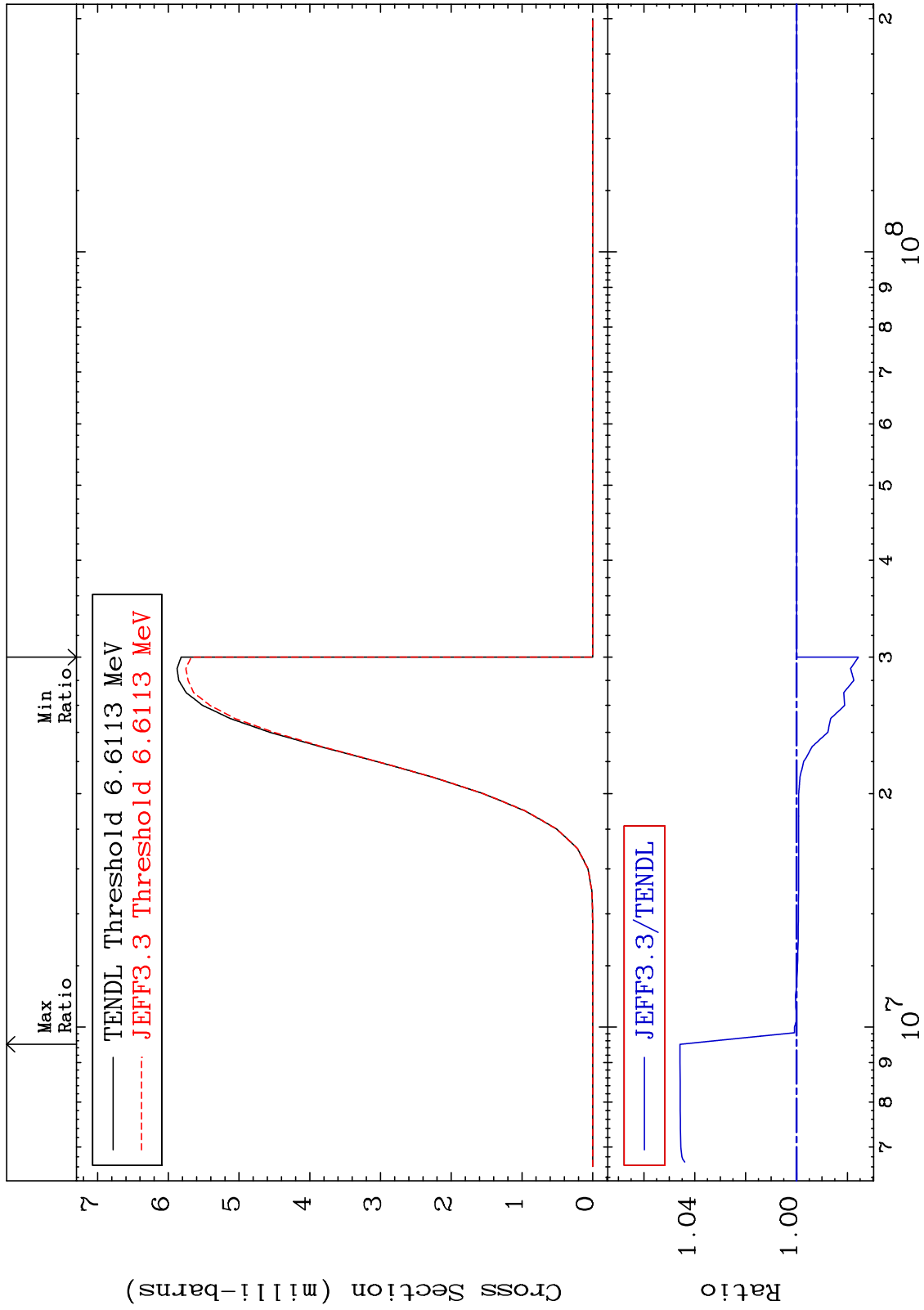
70-Yb-168

Cross Section

-4.277 To 2.951 %



MAT 7025  $(n, t)$  70-Yb-168  
 Cross Section -2.431 To 4.580 %



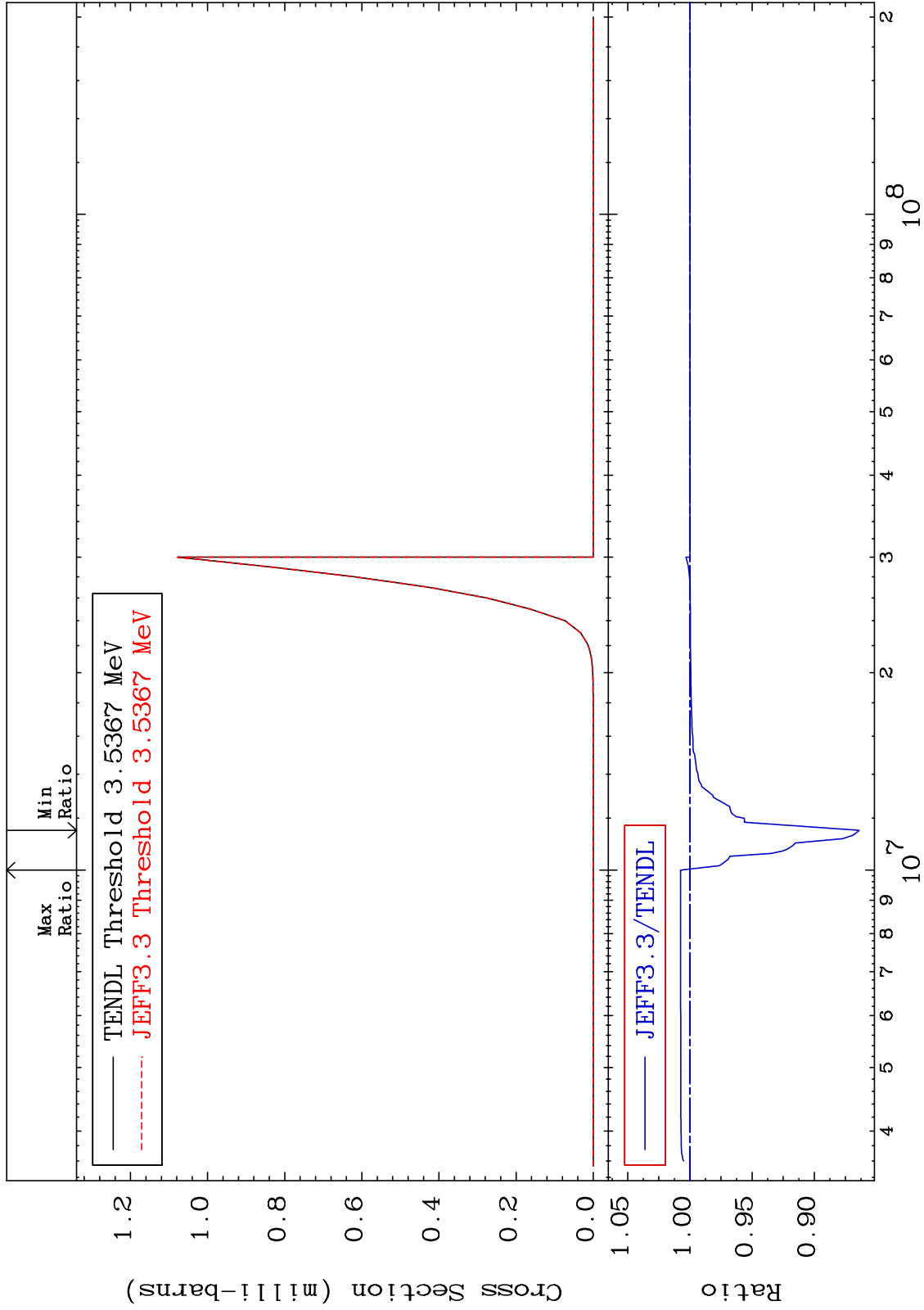
MAT 7025

(n, He-3)

70-Yb-168

Cross Section

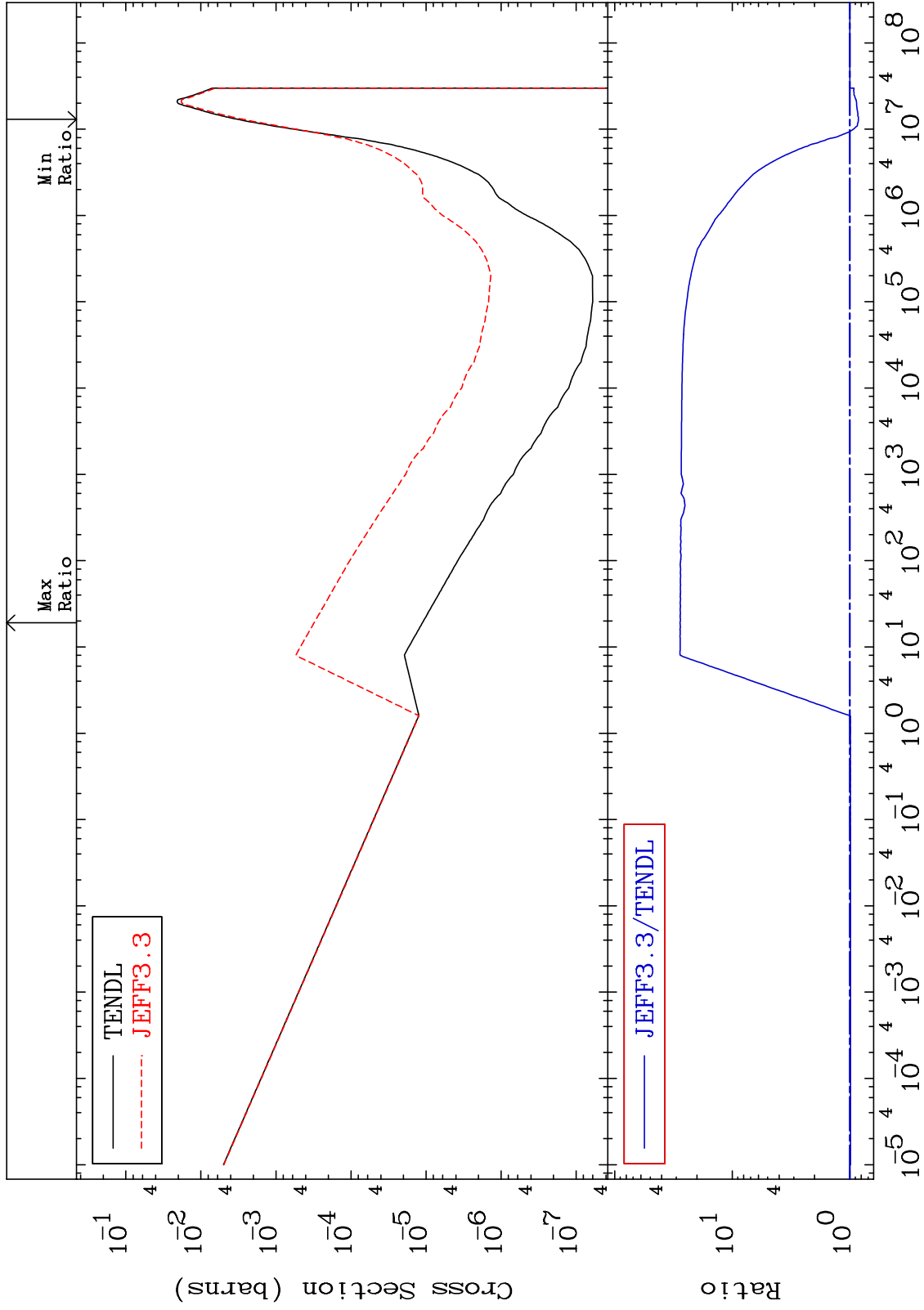
-13.60 To 0.745 %





MAT 7025

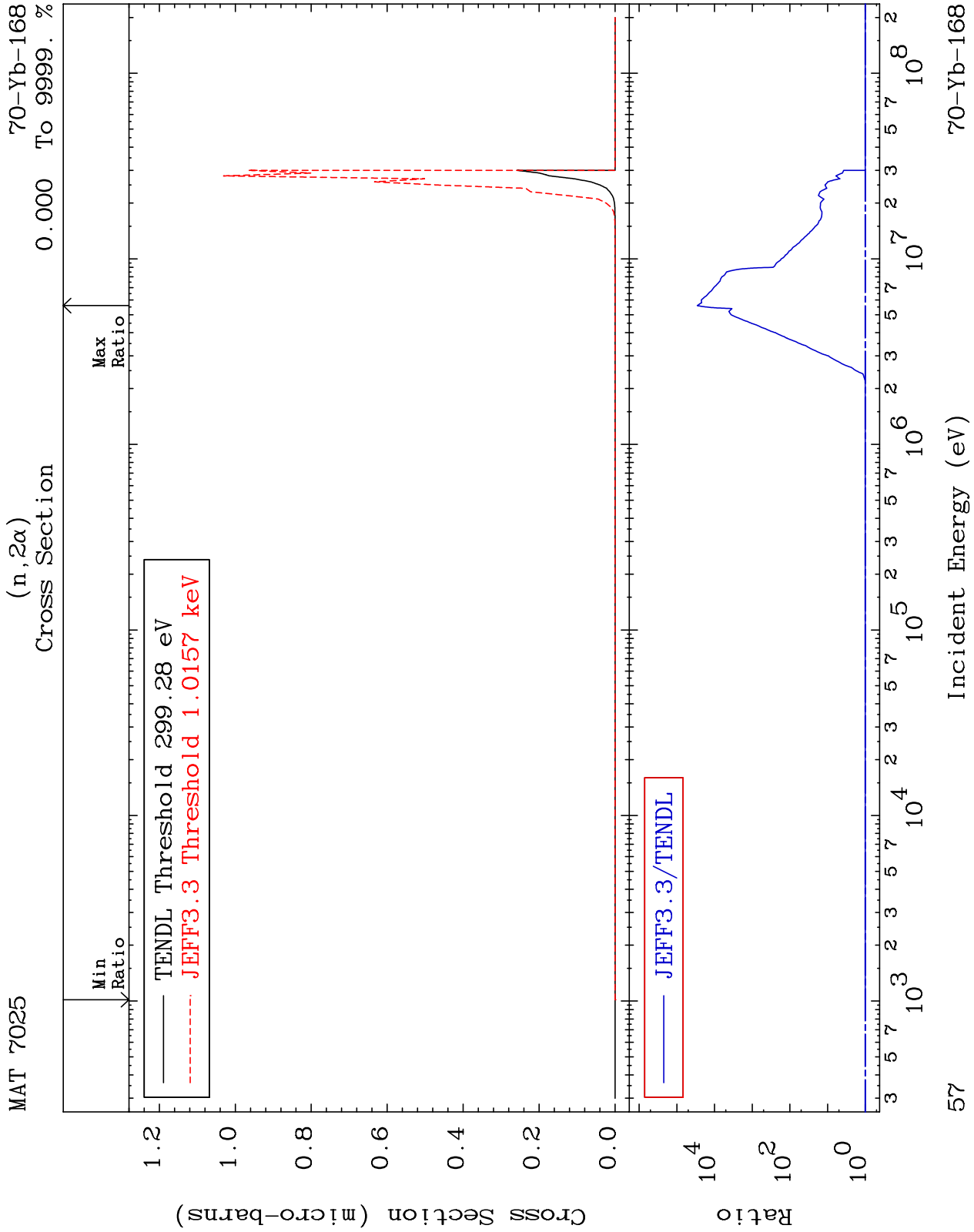
(n,  $\alpha$ ) Cross Section  
70-Yb-168  
-15.41 To 2687. %



56

Incident Energy (eV)

70-Yb-168



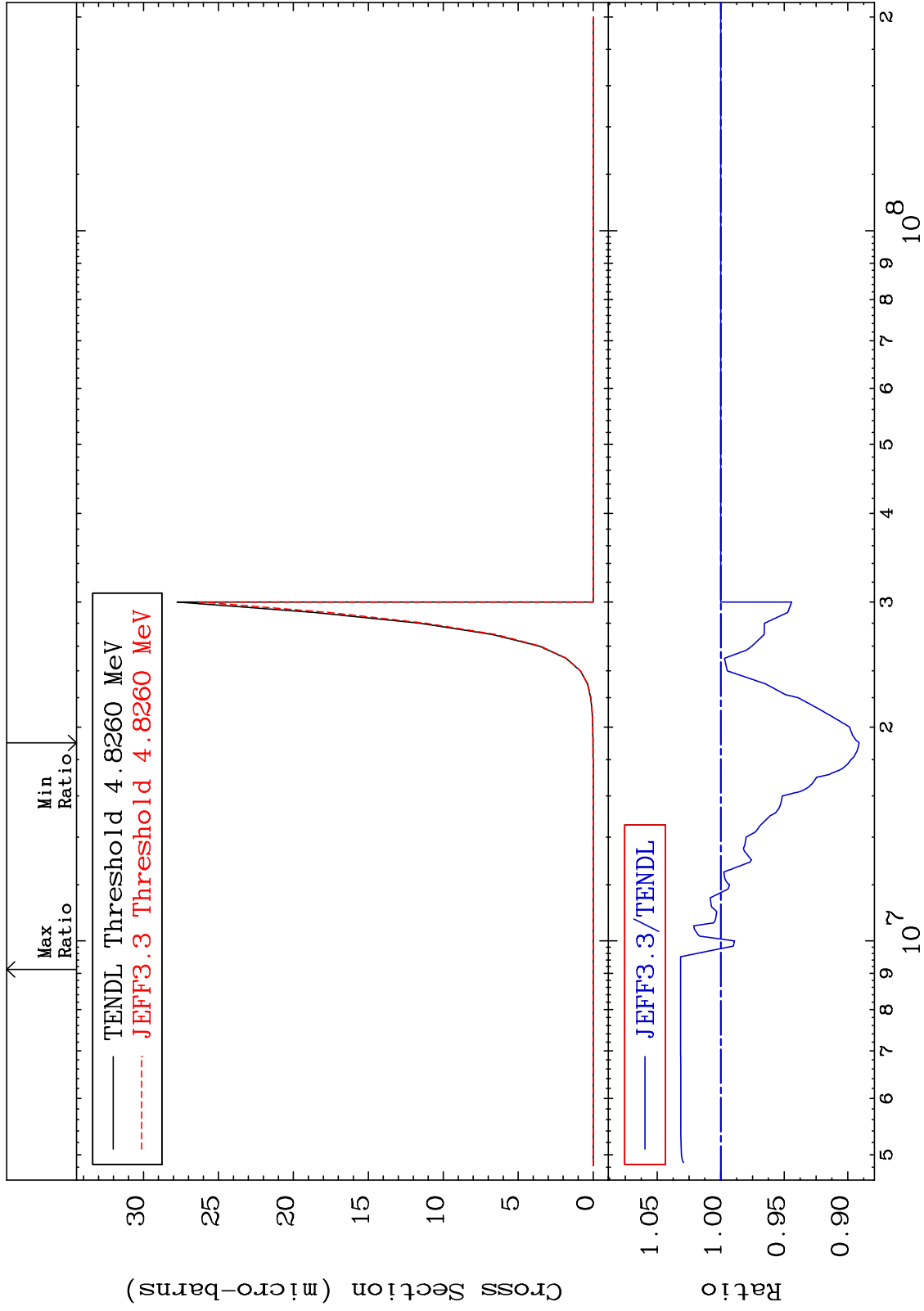
MAT 7025

(n,2p)

70-Yb-168

Cross Section

-10.89 To 3.157 %



58

Incident Energy (eV)

70-Yb-168

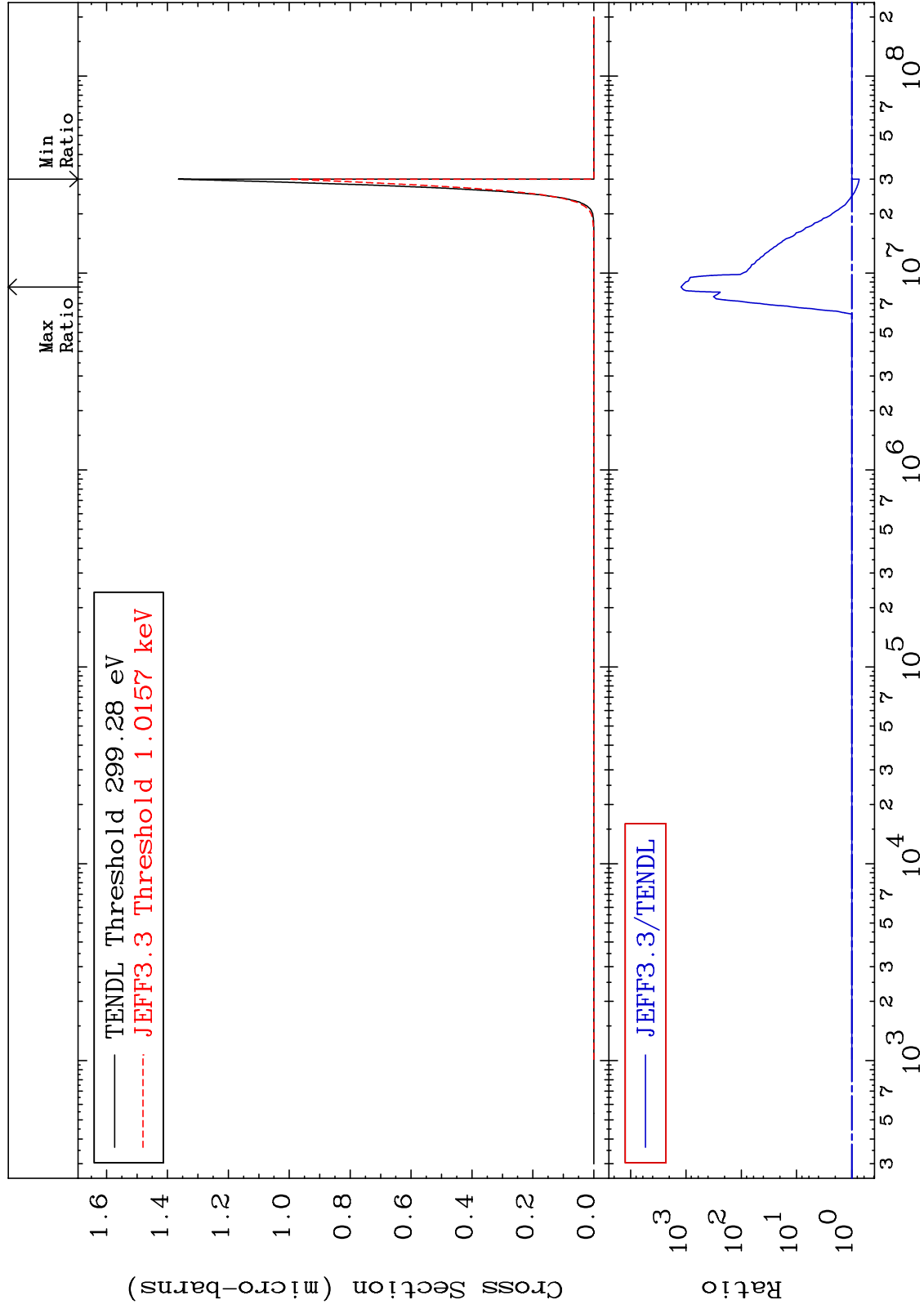
MAT 7025

(n,p)  $\alpha$

70-Yb-168

Cross Section

-26.56 To 9999. %



59

Incident Energy (eV)

70-Yb-168

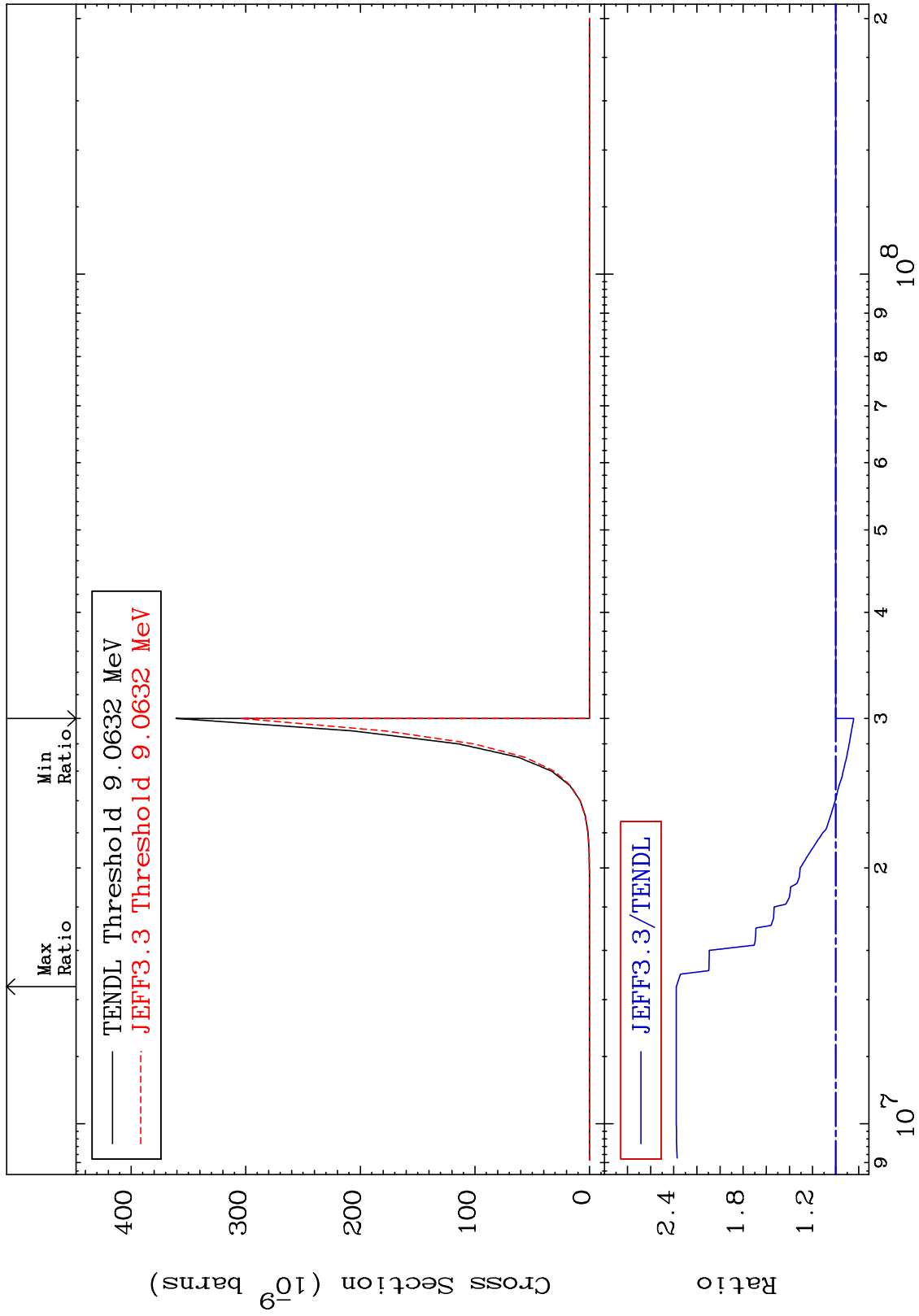
MAT 7025

(n,p) d

70-Yb-168

Cross Section

-15.65 To 137.8 %

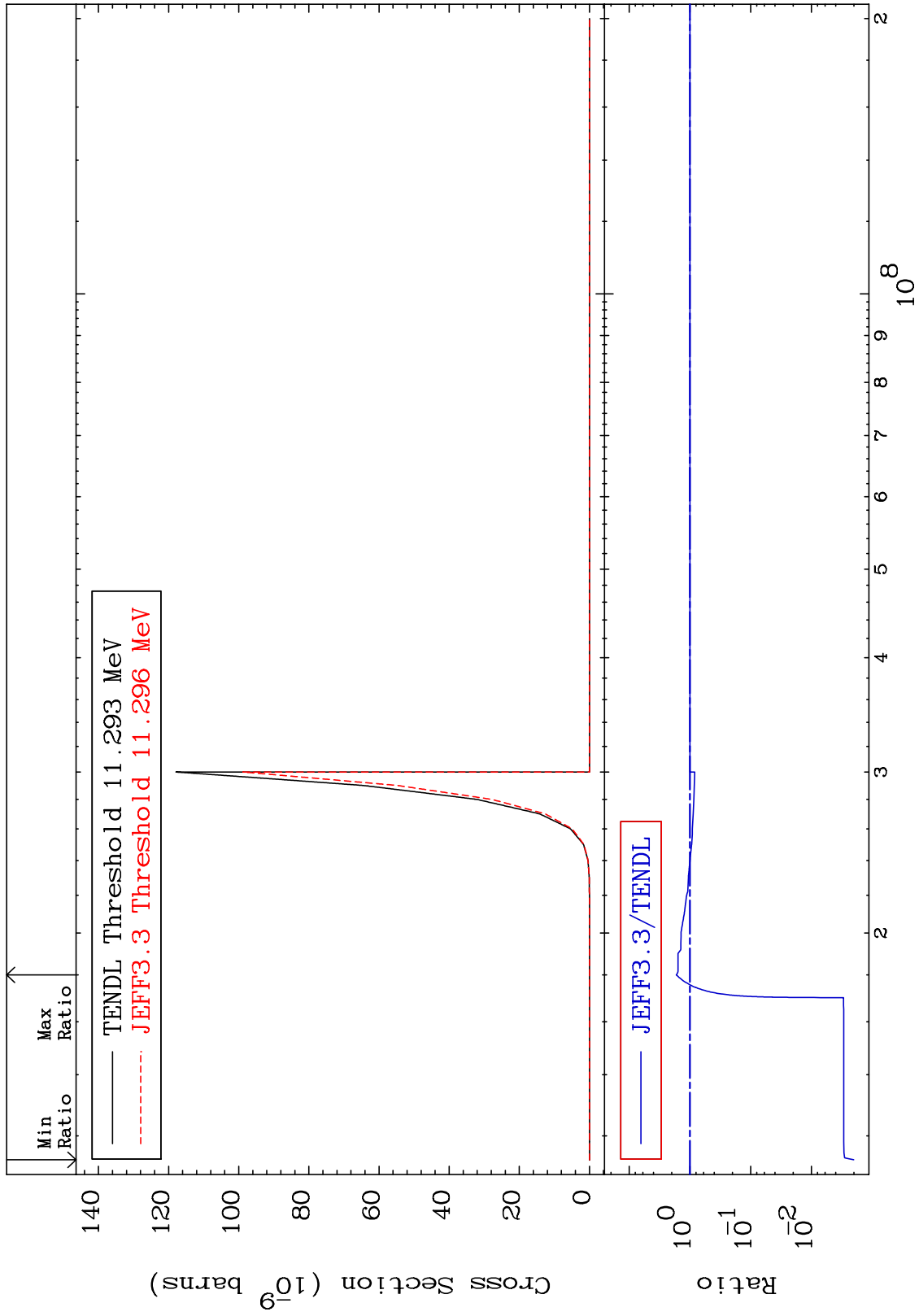


60

Incident Energy (eV)

70-Yb-168

MAT 7025 (n,p) t 70-Yb-168  
 Cross Section -99.80 To 68.10 %



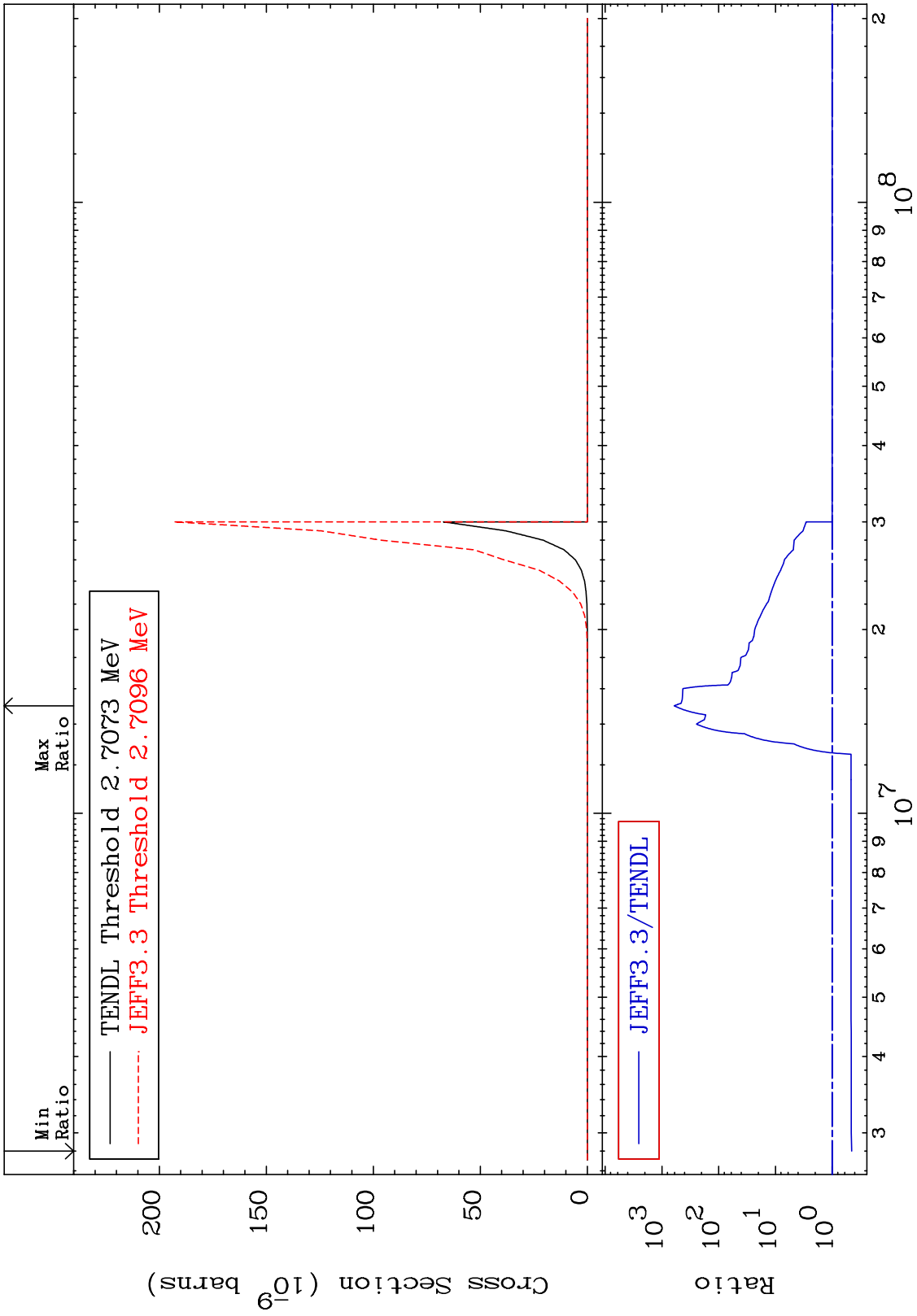
MAT 7025

(n,d)  $\alpha$

70-Yb-168

-54.65 To 9999. %

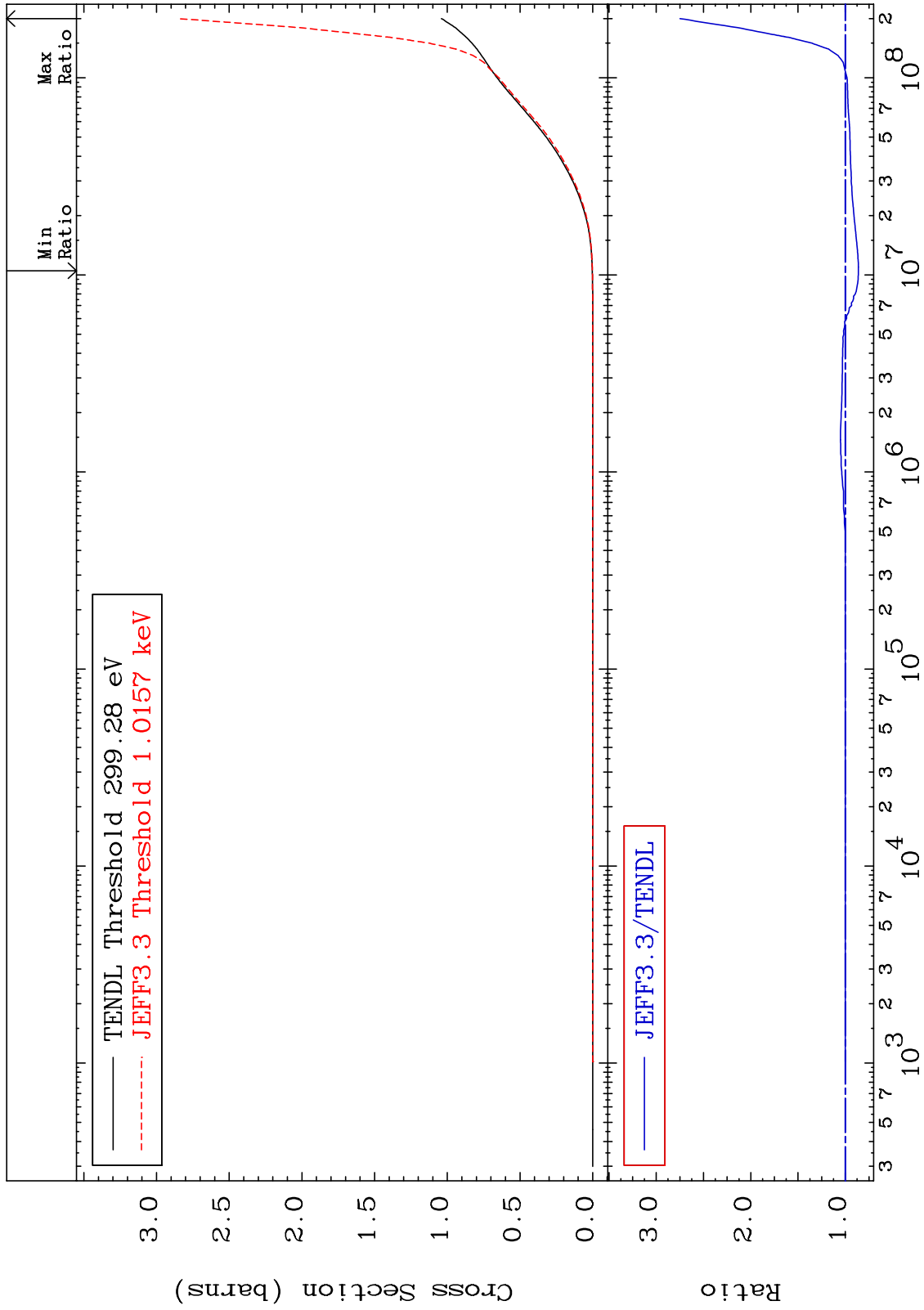
Cross Section



MAT 7025

Hydrogen Production  
Cross Section

70-Yb-168  
-13.84 To 174.8 %



63

Incident Energy (eV)

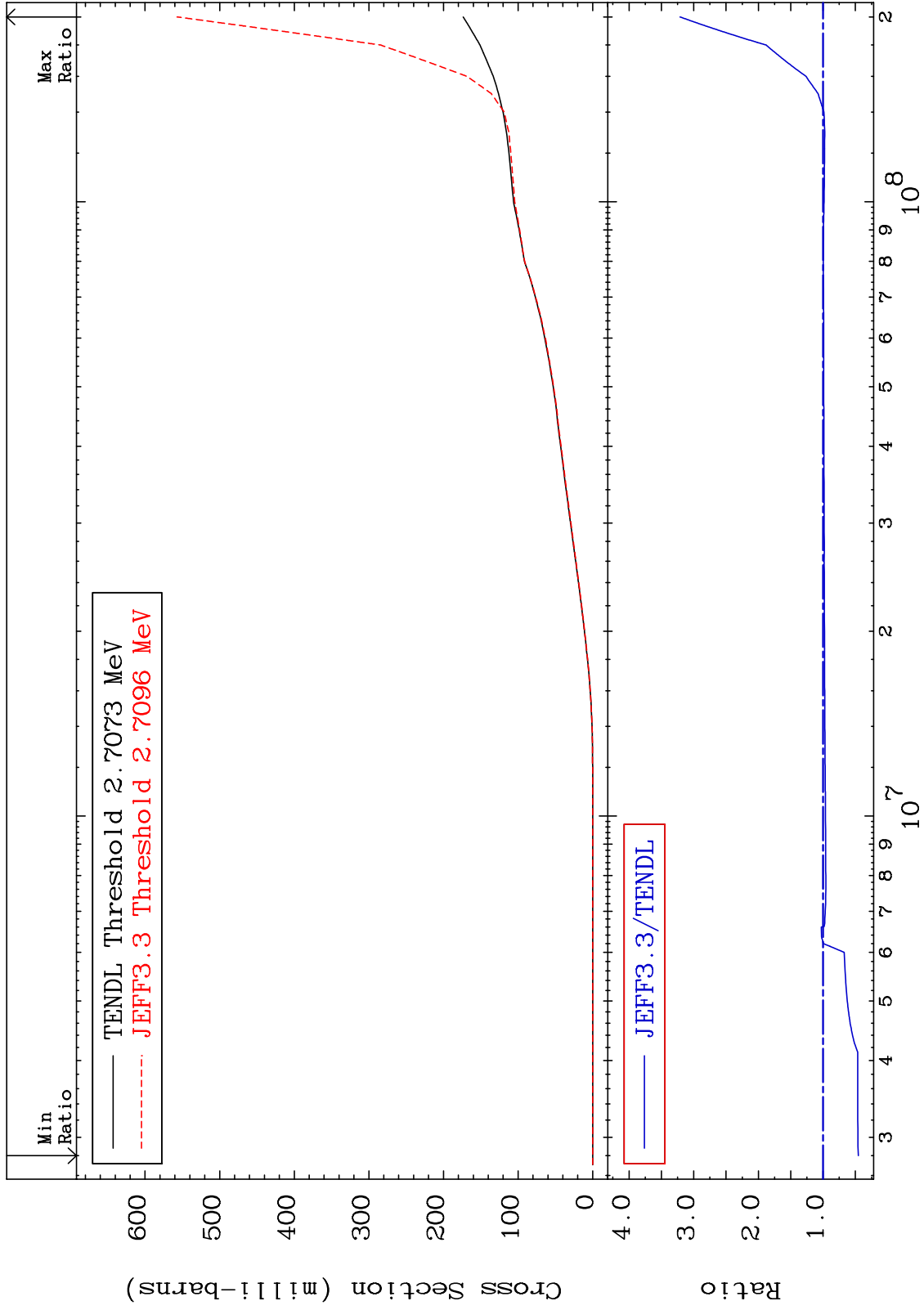
70-Yb-168



MAT 7025

Deuterium Production  
Cross Section

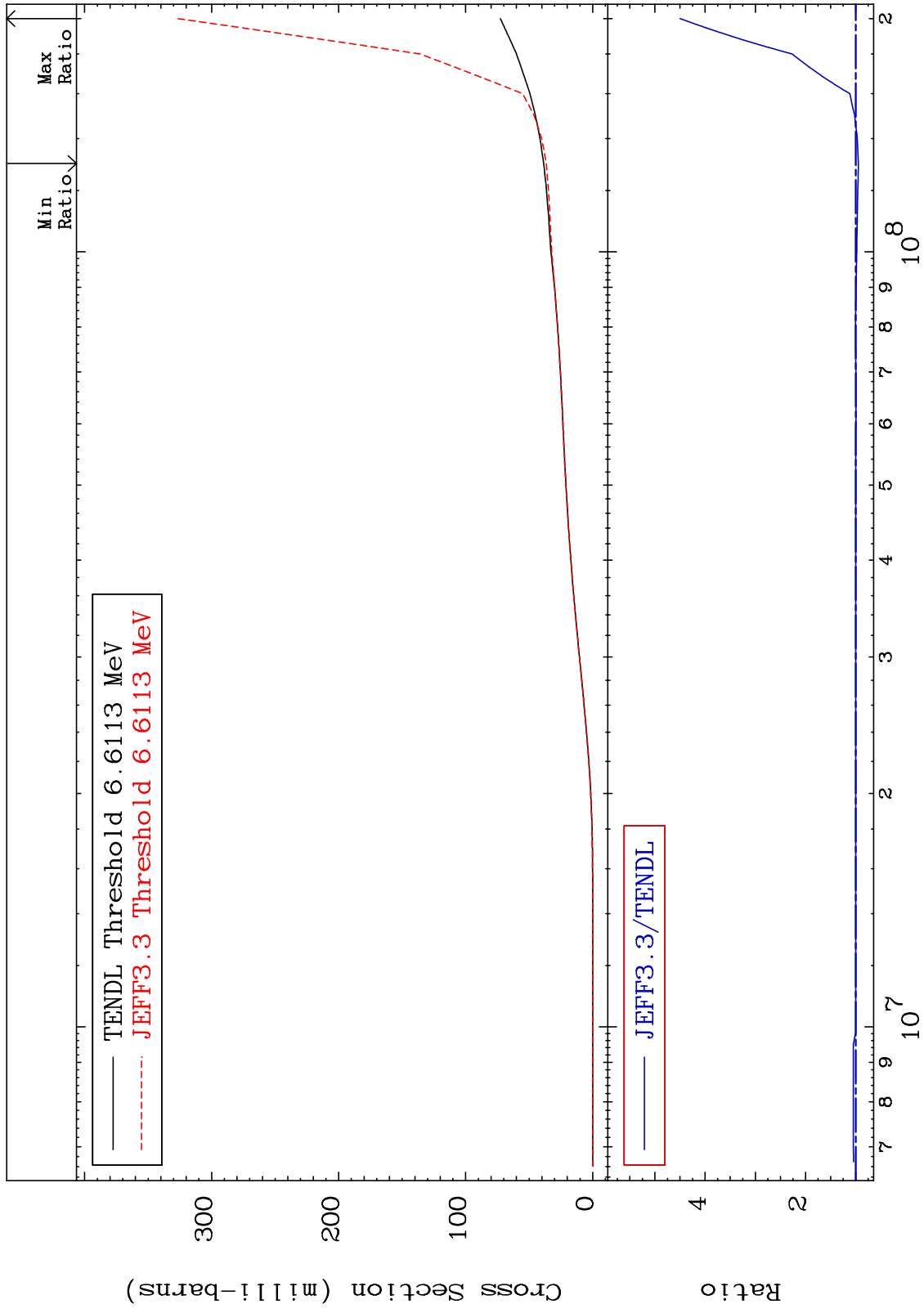
70-Yb-168  
-54.65 To 221.2 %



MAT 7025

Tritium Production  
Cross Section

70-Yb-168  
-5.360 To 350.0 %



65

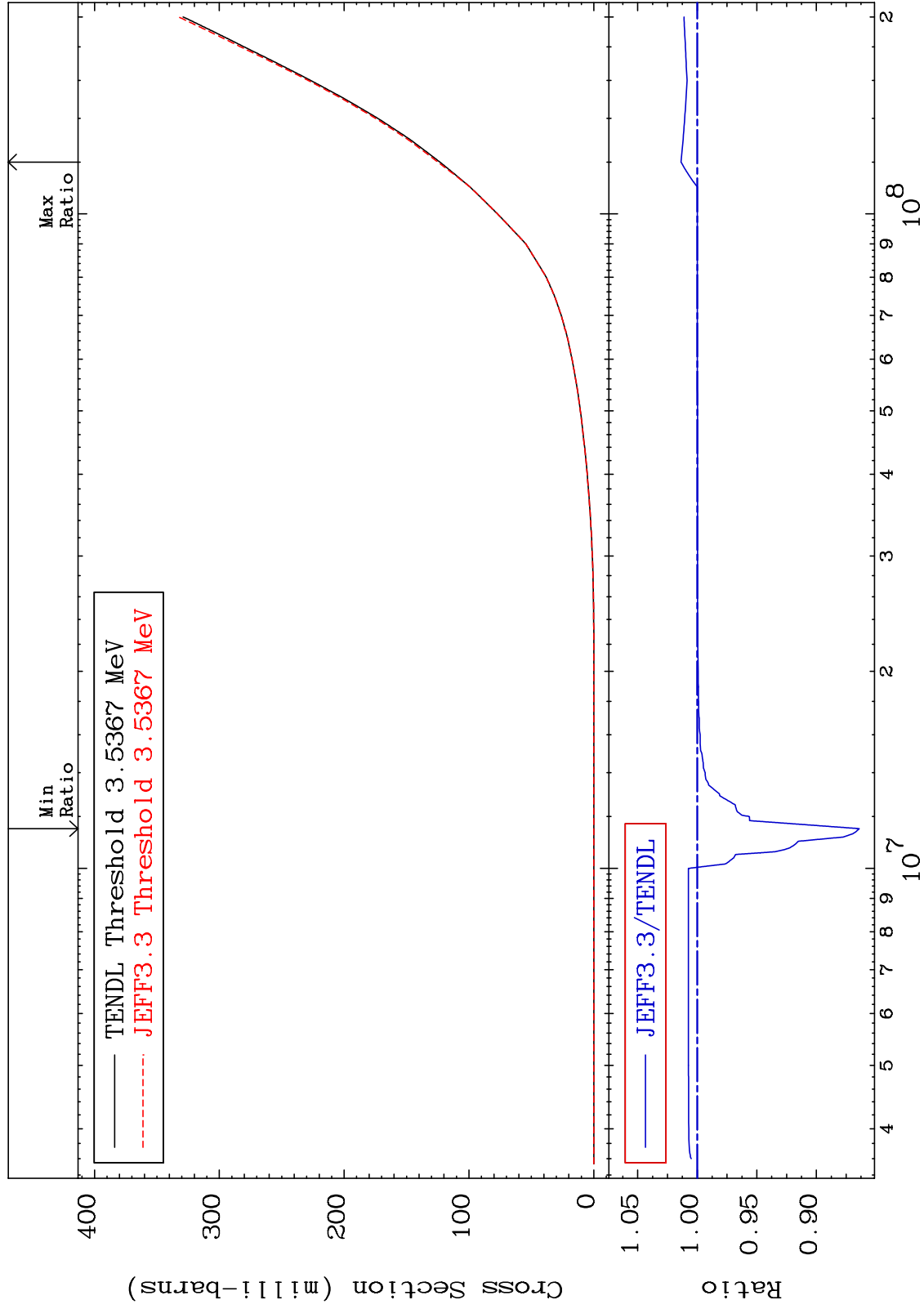
Incident Energy (eV)

70-Yb-168

MAT 7025

He-3 Production  
Cross Section

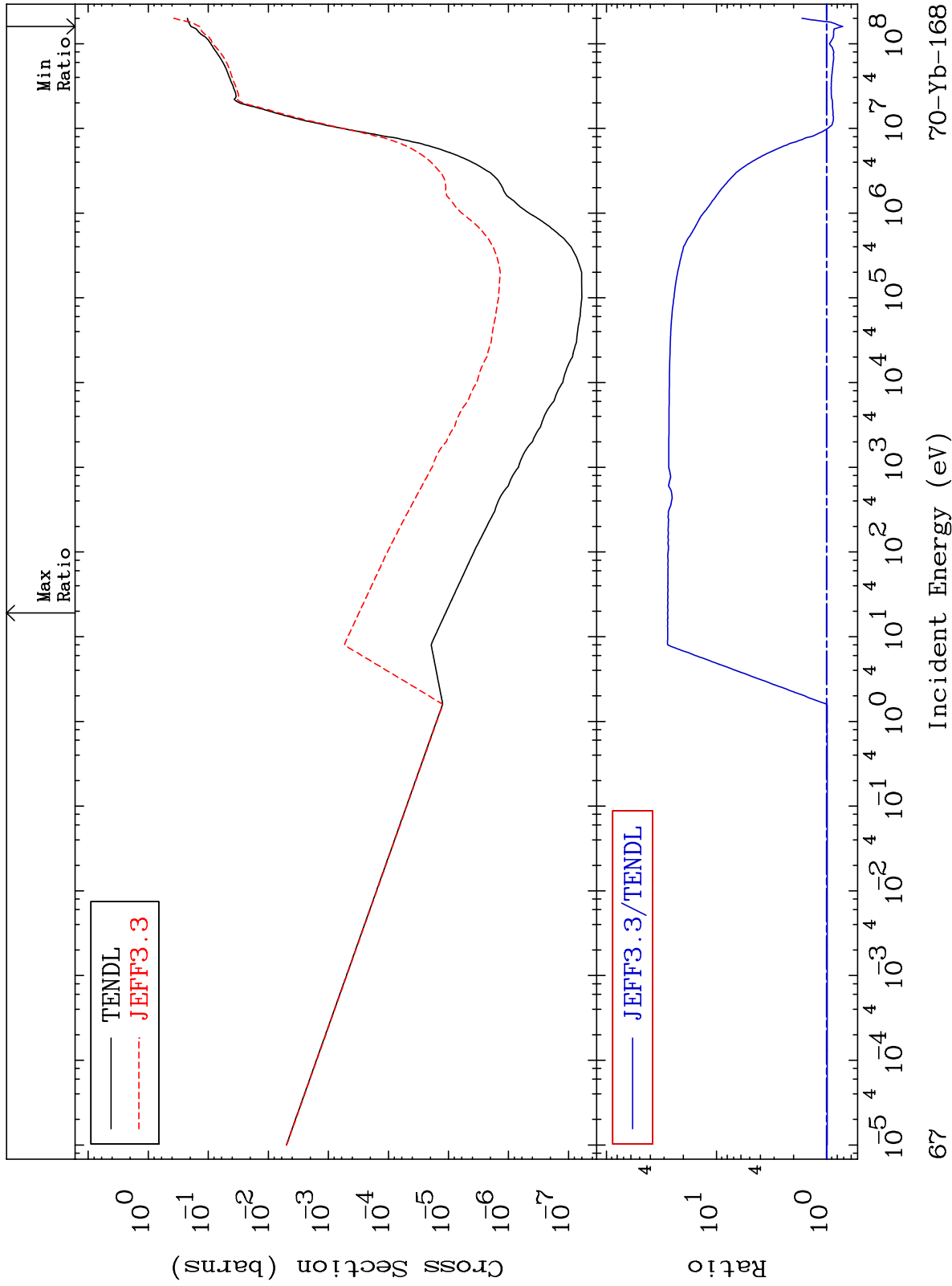
70-Yb-168  
-13.60 To 1.361 %



MAT 7025

He-4 Production  
Cross Section

70-Yb-168  
-28.44 To 2687. %



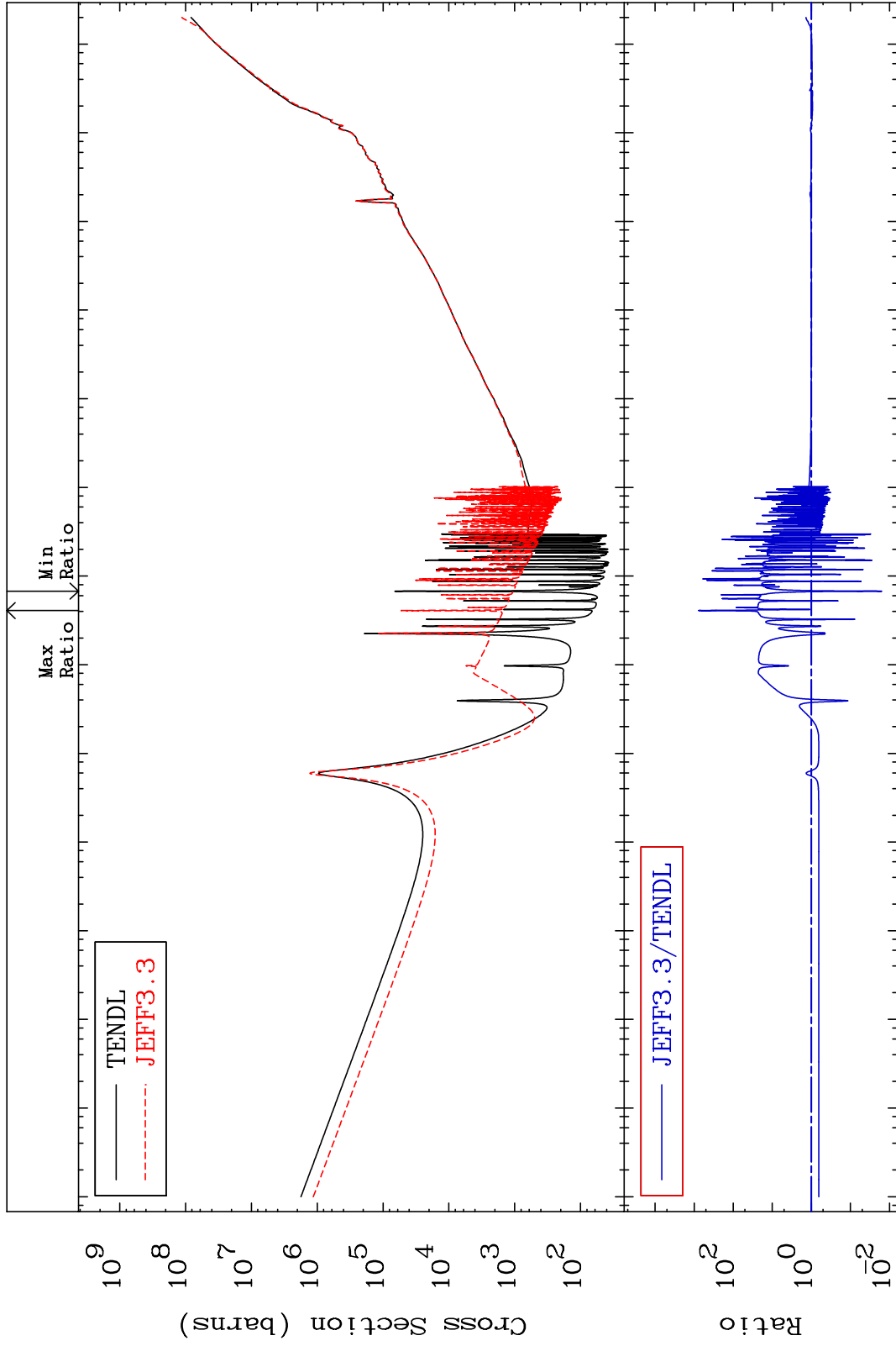
MAT 7025

Kerma total (eV-barns)

70-Yb-168

-98.40 To 9999. %

Cross Section



Ratio

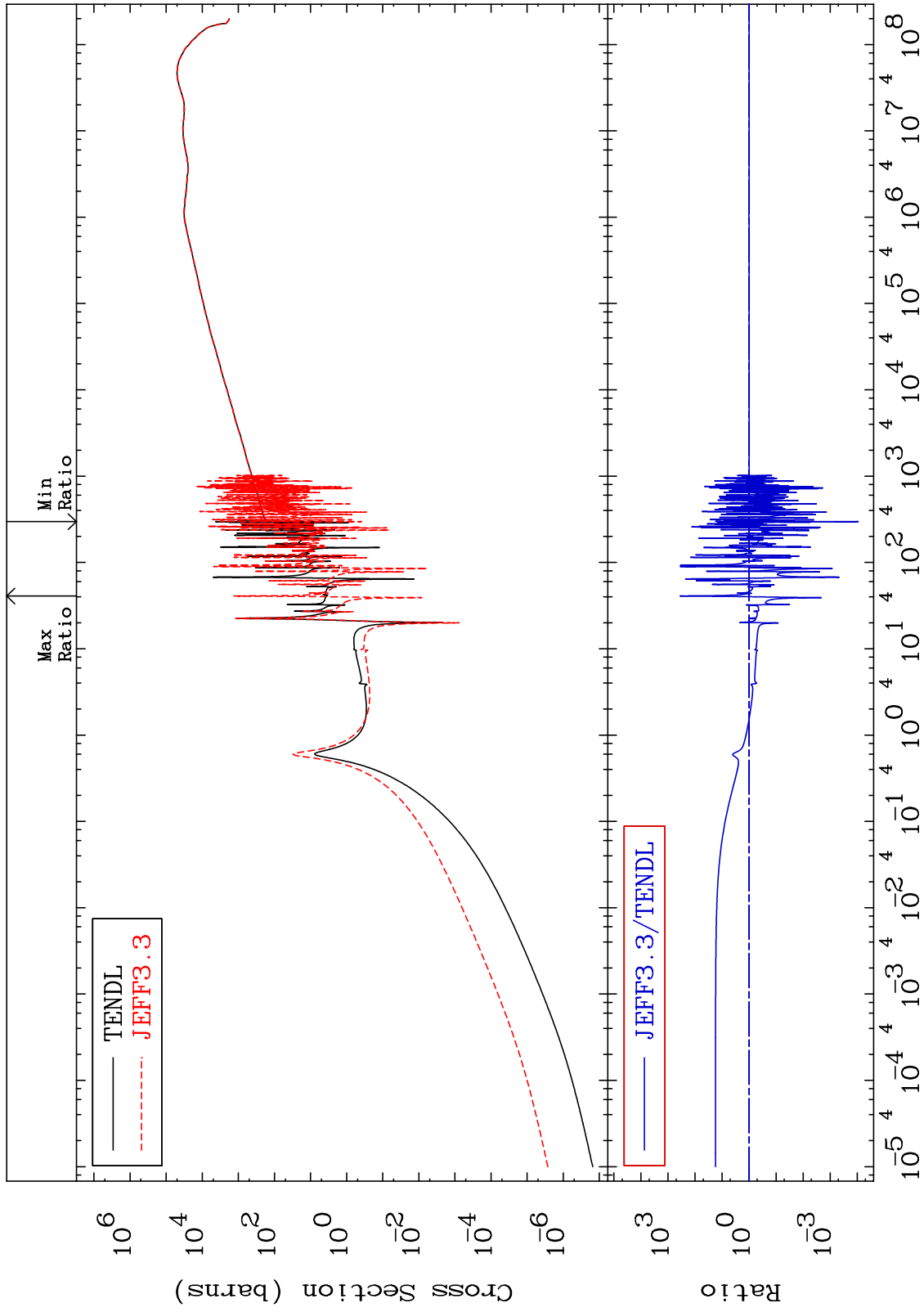
Incident Energy (eV)

70-Yb-168

MAT 7025

Kerma elastic  
Cross Section

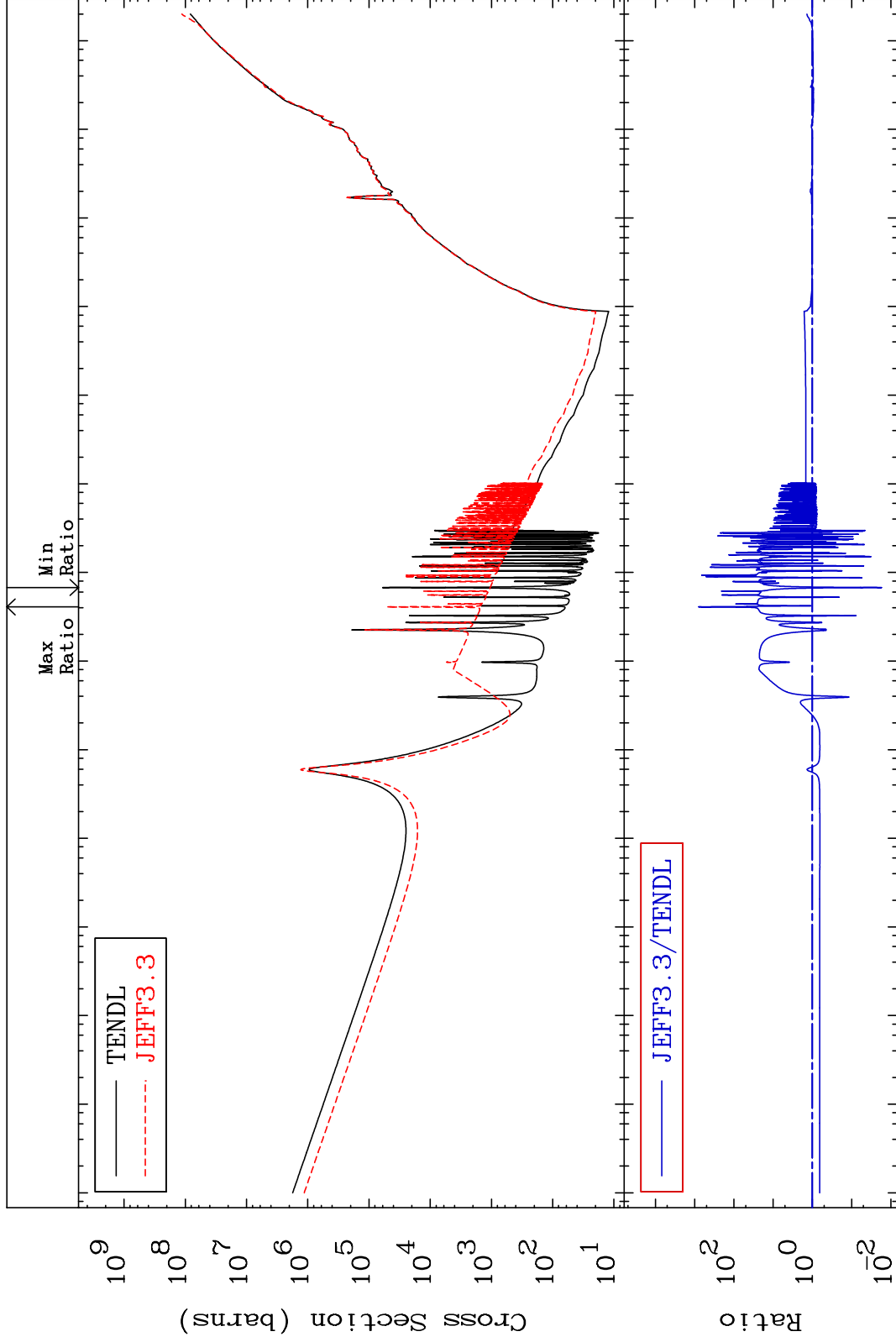
70-Yb-168  
-99.99 To 9999. %



MAT 7025

Kerma non-elastic (all but mt2)  
Cross Section

70-Yb-168  
-98.27 To 9999. %



70

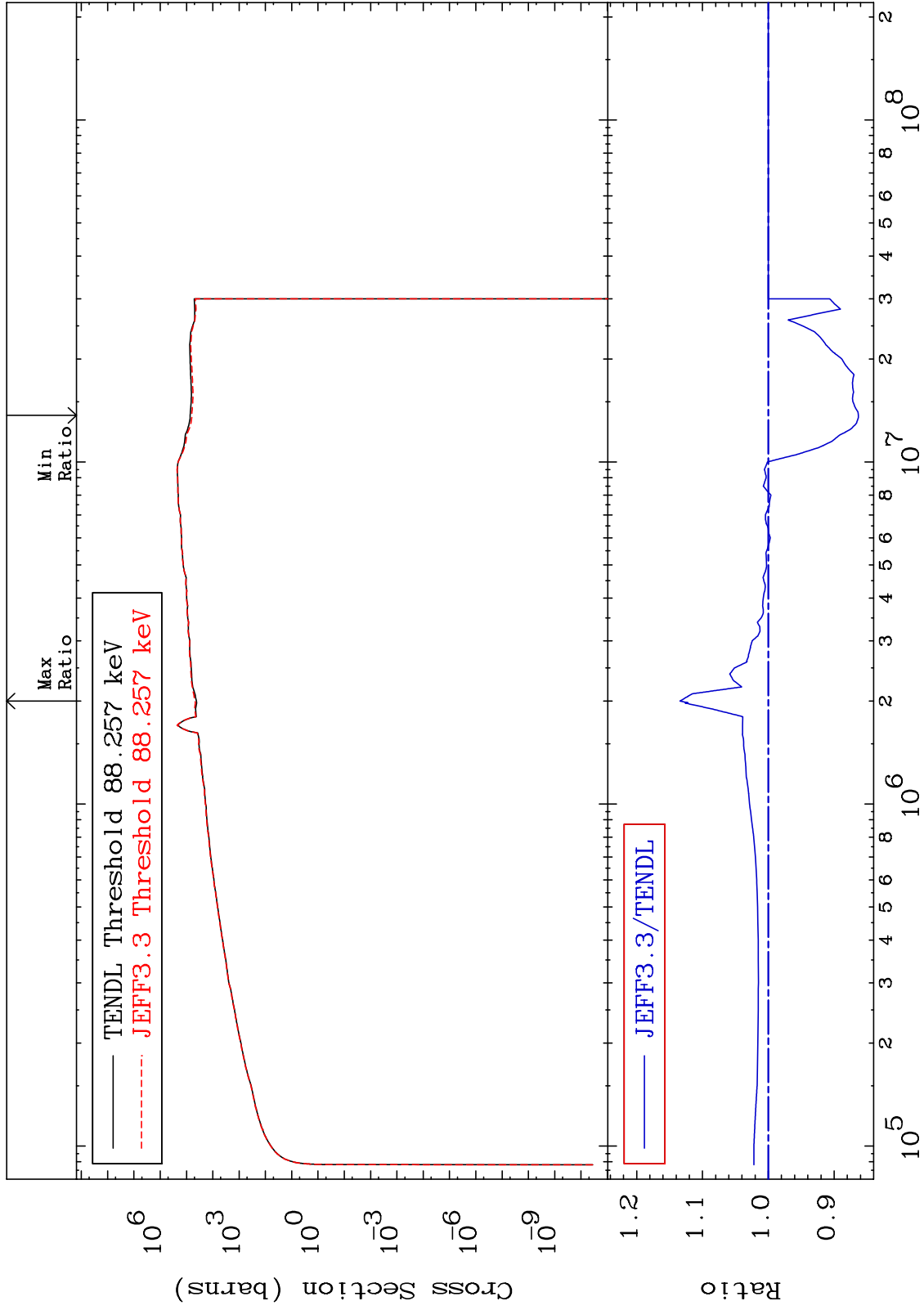
Incident Energy (eV)

70-Yb-168

MAT 7025

Kerma inelastic (mt51-91)  
Cross Section

70-Yb-168  
-13.69 To 13.42 %



71

Incident Energy (eV)

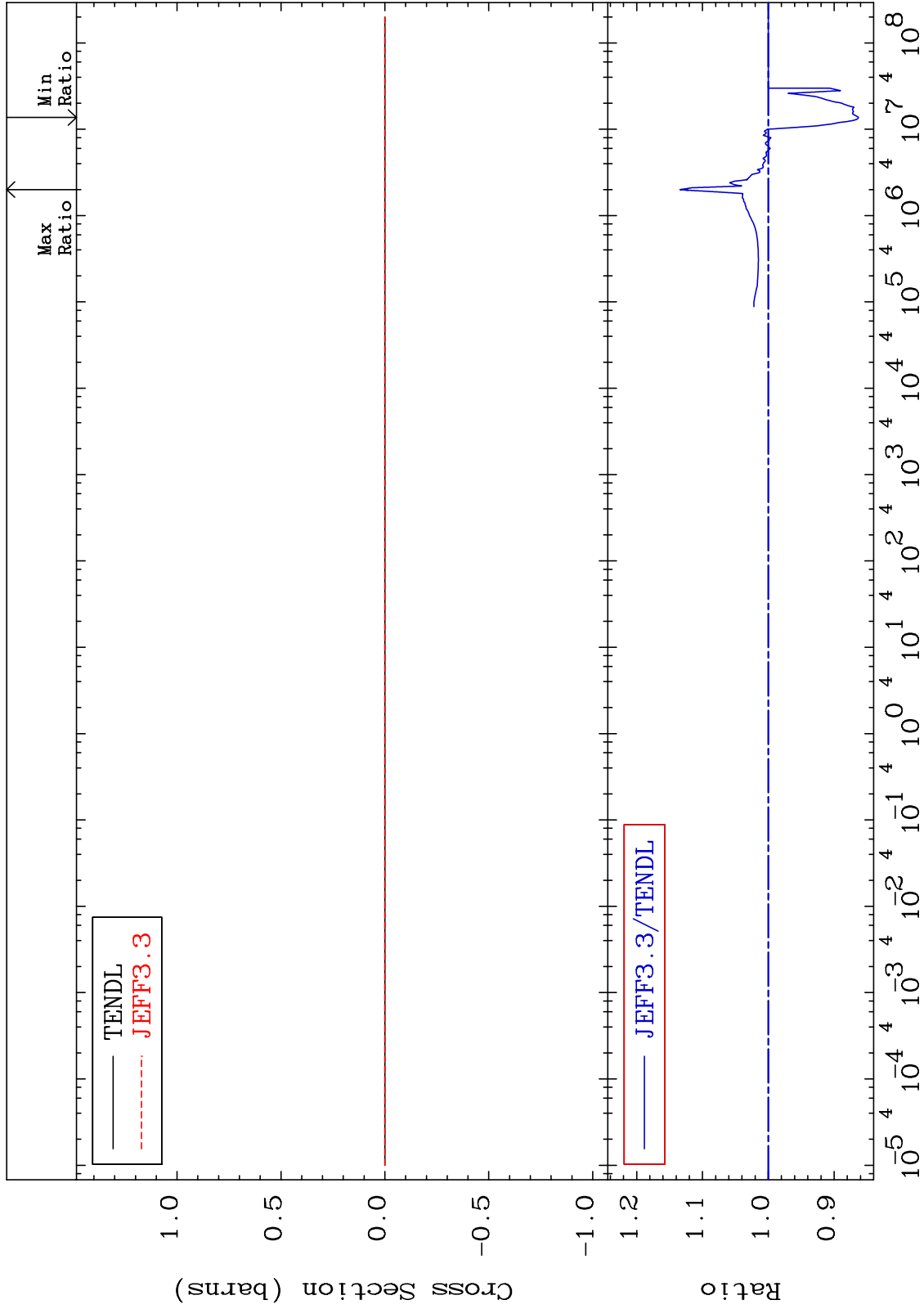
70-Yb-168



MAT 7025

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

70-Yb-168  
-13.69 To 13.42 %



72

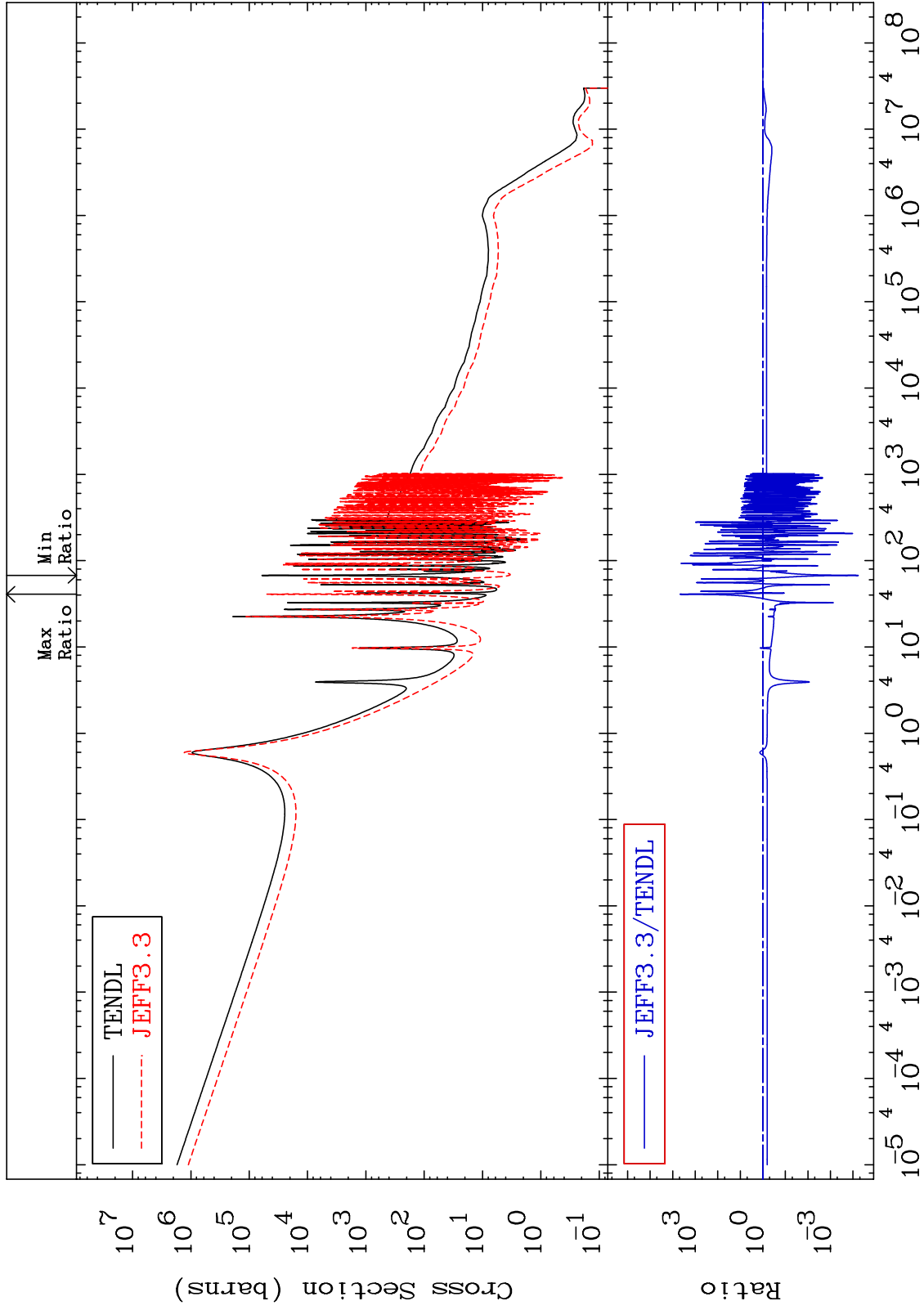
Incident Energy (eV)

70-Yb-168

MAT 7025

Kerma capture (mt102)  
Cross Section

70-Yb-168  
-99.99 To 9999. %



73

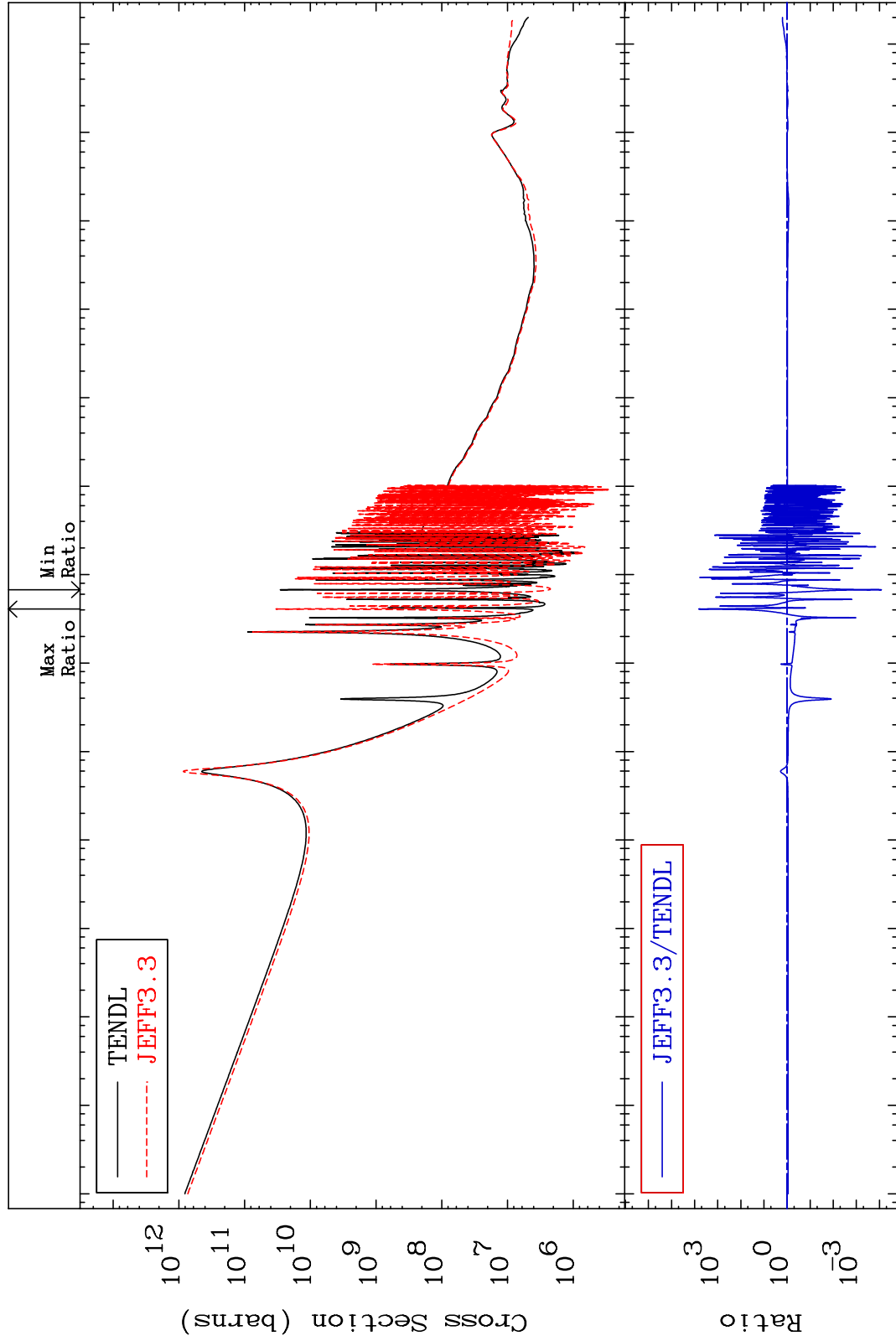
Incident Energy (eV)

70-Yb-168

MAT 7025

Total photon (eV-barns)  
Cross Section

70-Yb-168  
-99.99 To 9999. %



74

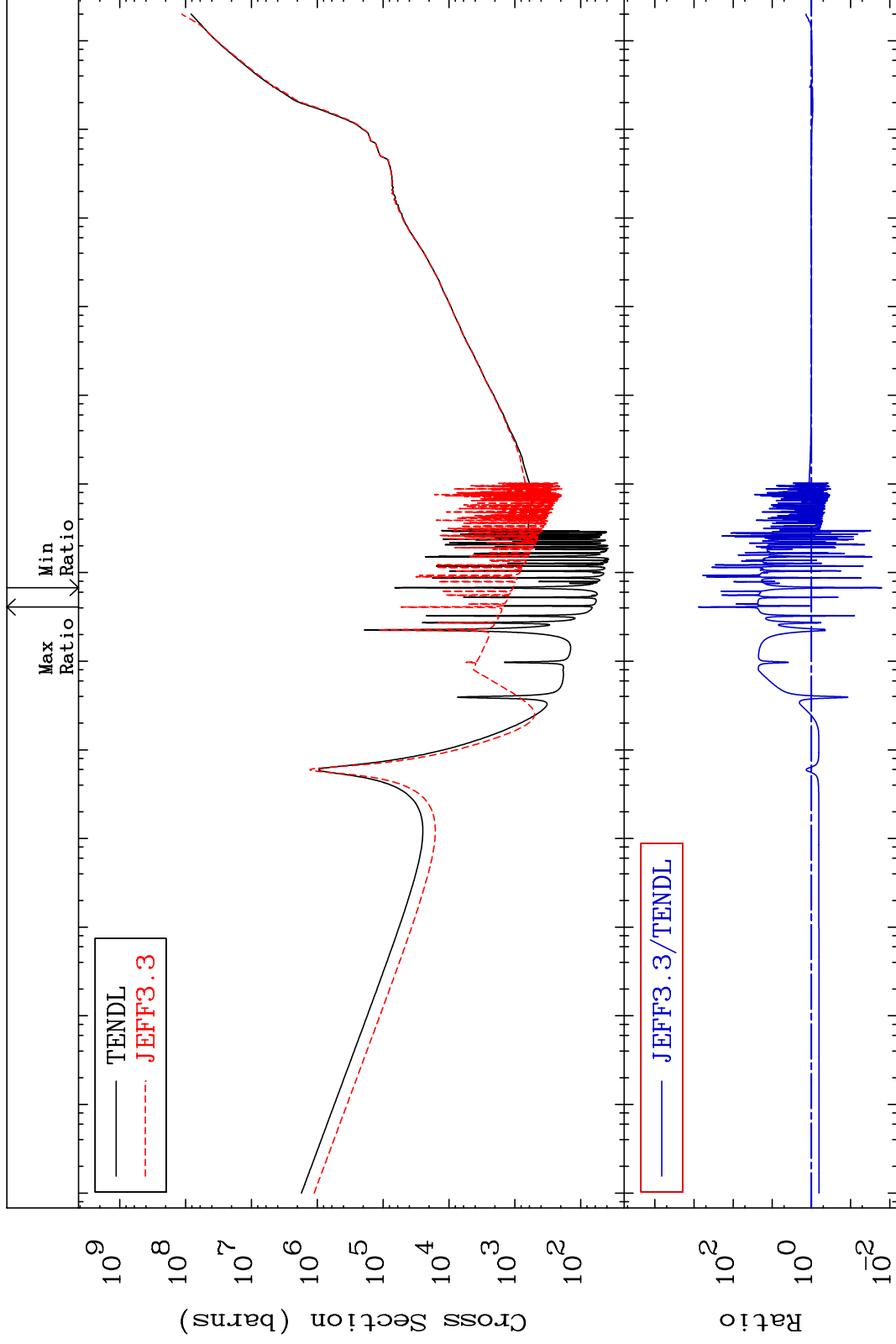
Incident Energy (eV)

70-Yb-168

MAT 7025

Total kinematic kerma (high limit)  
Cross Section

70-Yb-168  
-98.38 To 9999. %



75

Incident Energy (eV)

70-Yb-168

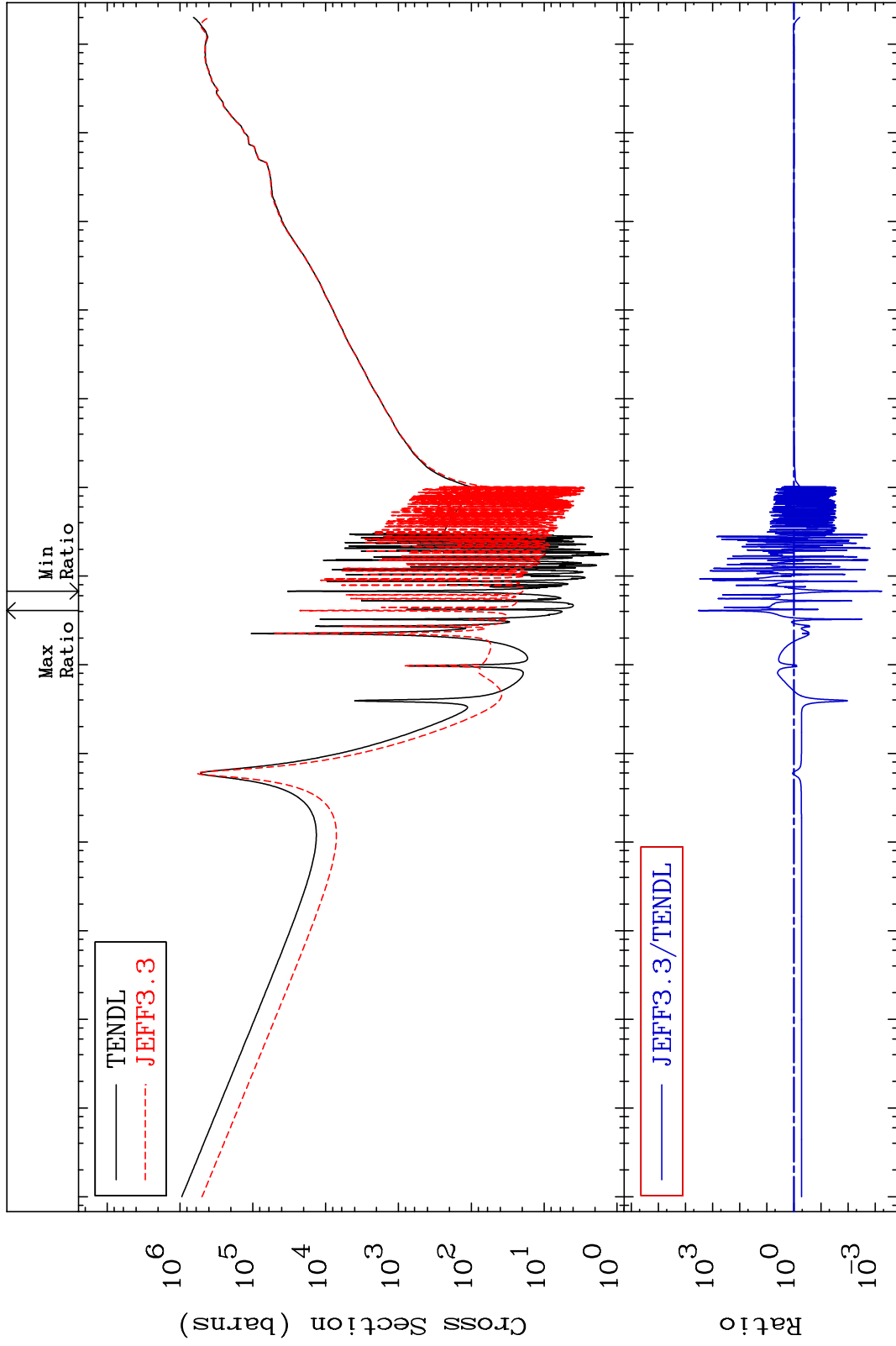
MAT 7025

Dpa total (eV-barns)

70-Yb-168

-99.94 To 9999. %

Cross Section



76

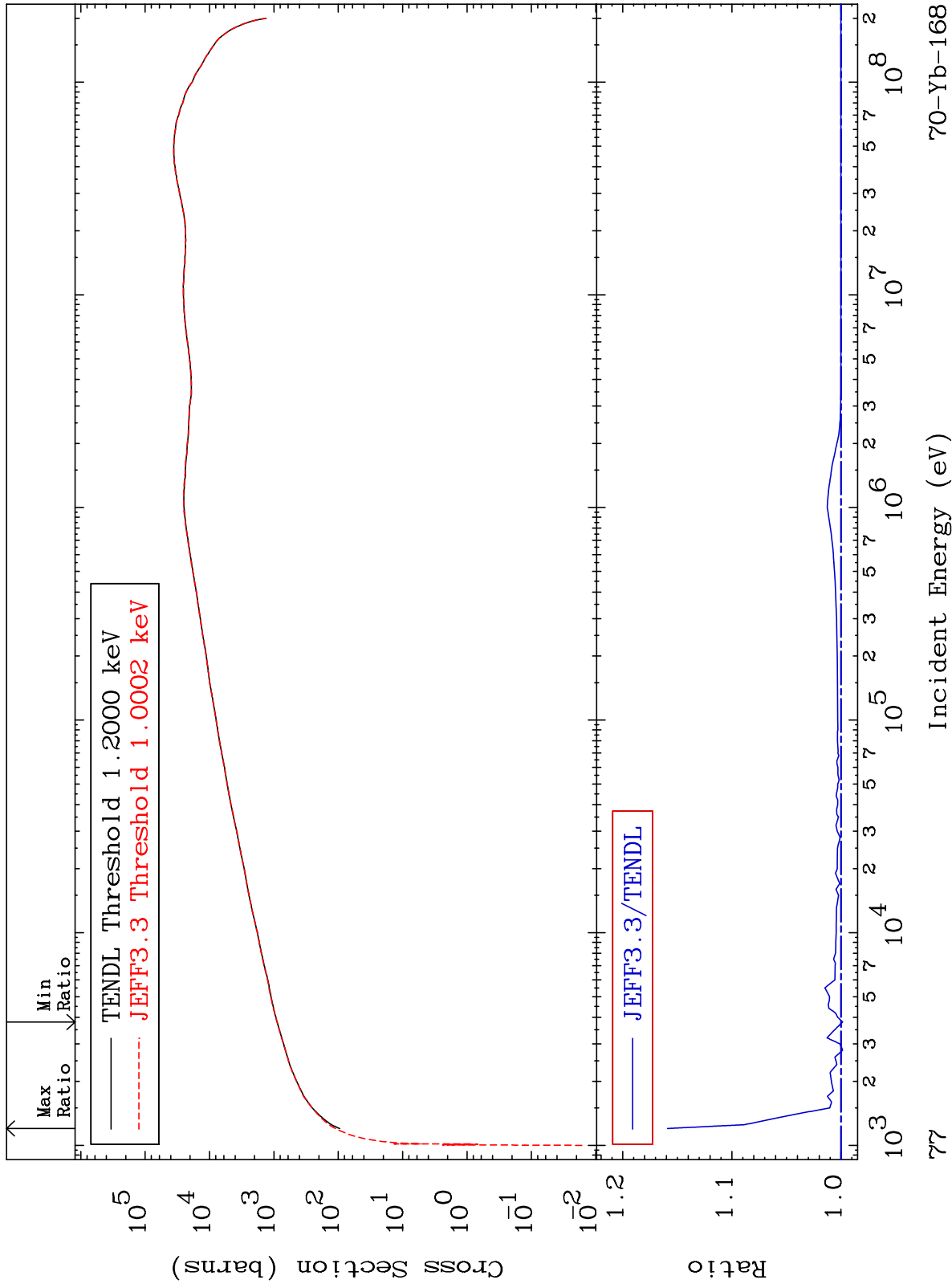
Incident Energy (eV)

70-Yb-168

MAT 7025

Dpa elastic (mt2)  
Cross Section

70-Yb-168  
-0.152 To 15.90 %



70-Yb-168

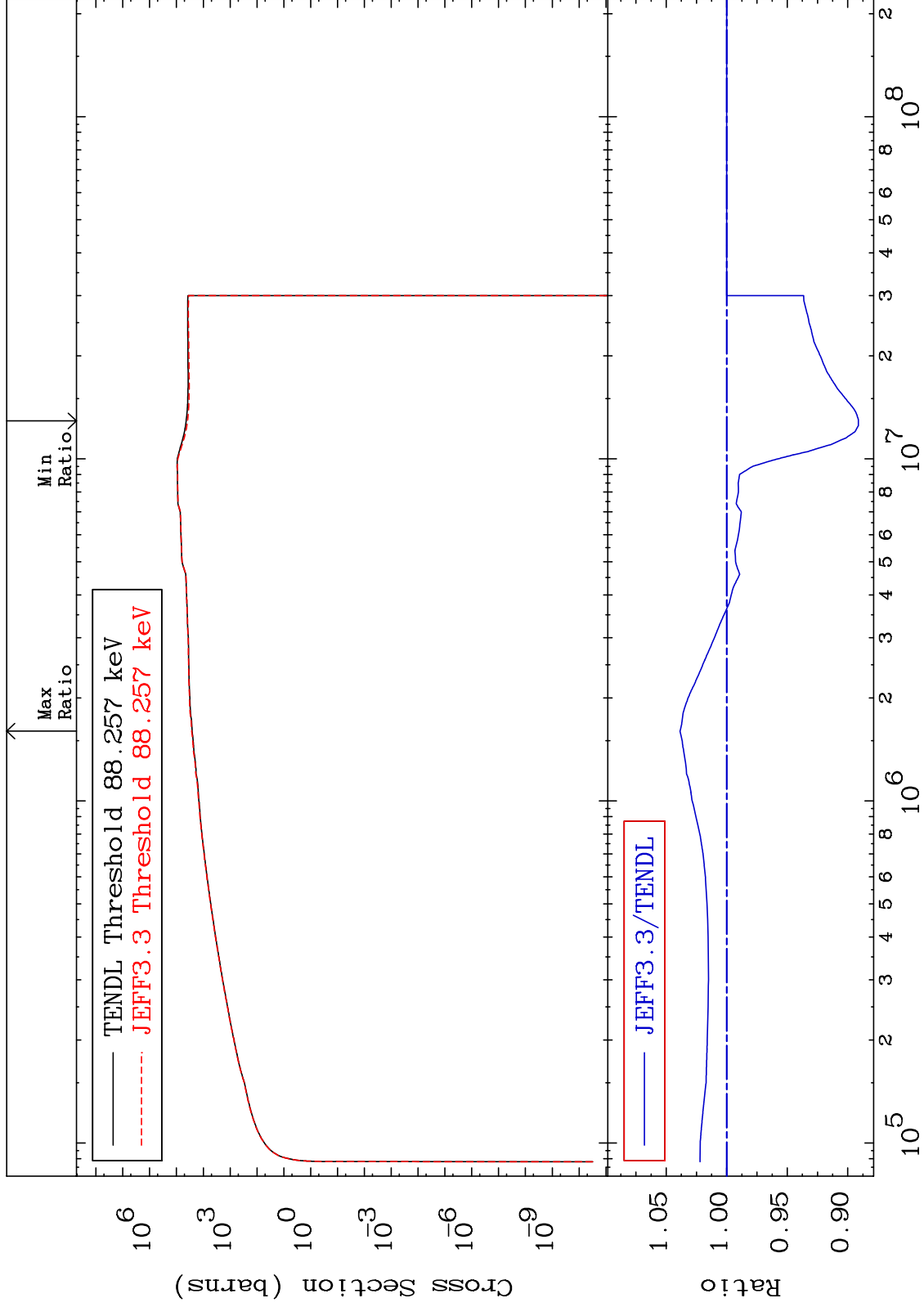
Incident Energy (eV)

77

MAT 7025

Dpa inelastic (mt51-91)  
Cross Section

70-Yb-168  
-10.88 To 3.858 %



78

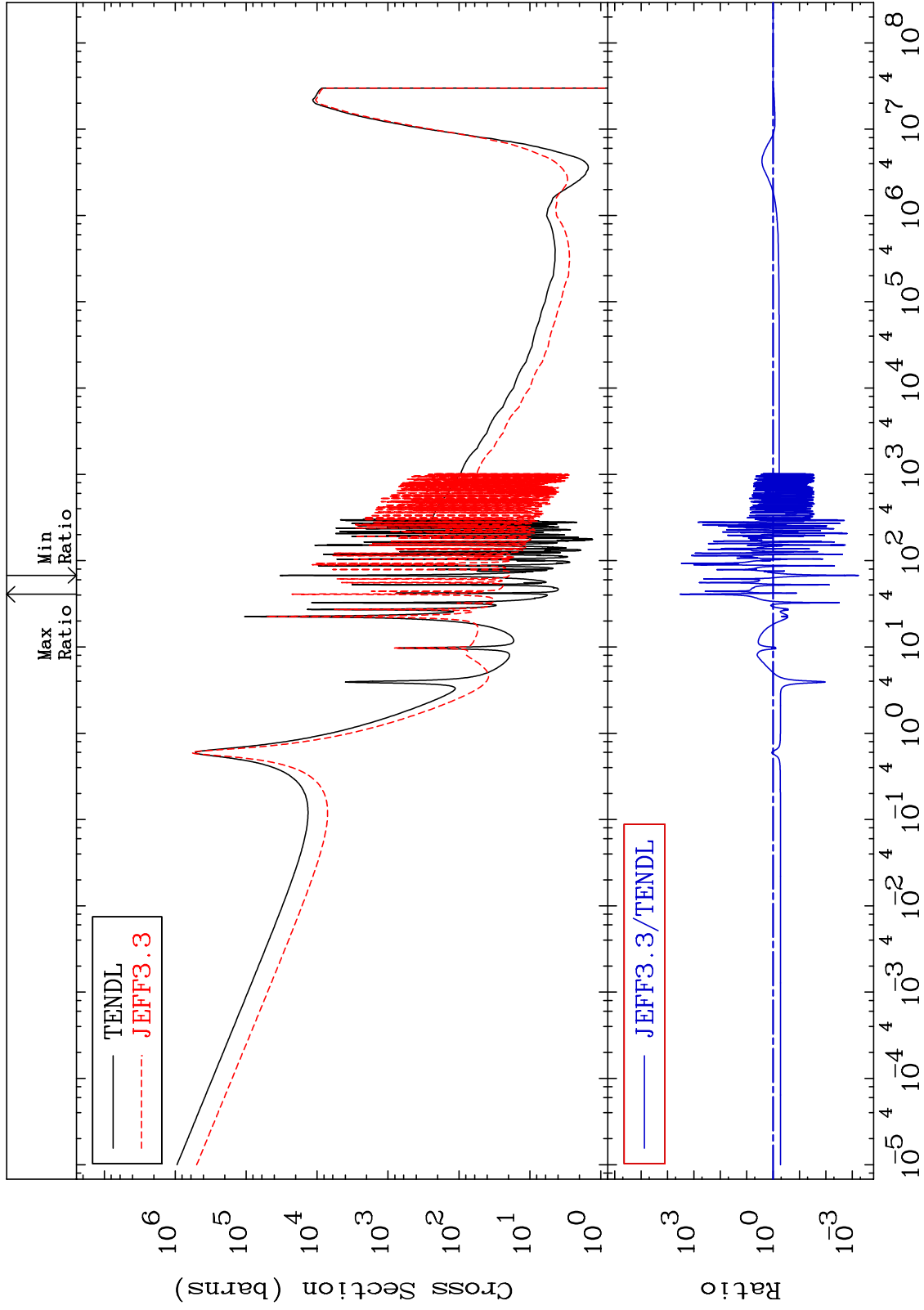
Incident Energy (eV)

70-Yb-168

MAT 7025

Dpa disappearance (mt102 -120)  
Cross Section

70-Yb-168  
-99.94 To 9999. %



79

Incident Energy (eV)

70-Yb-168

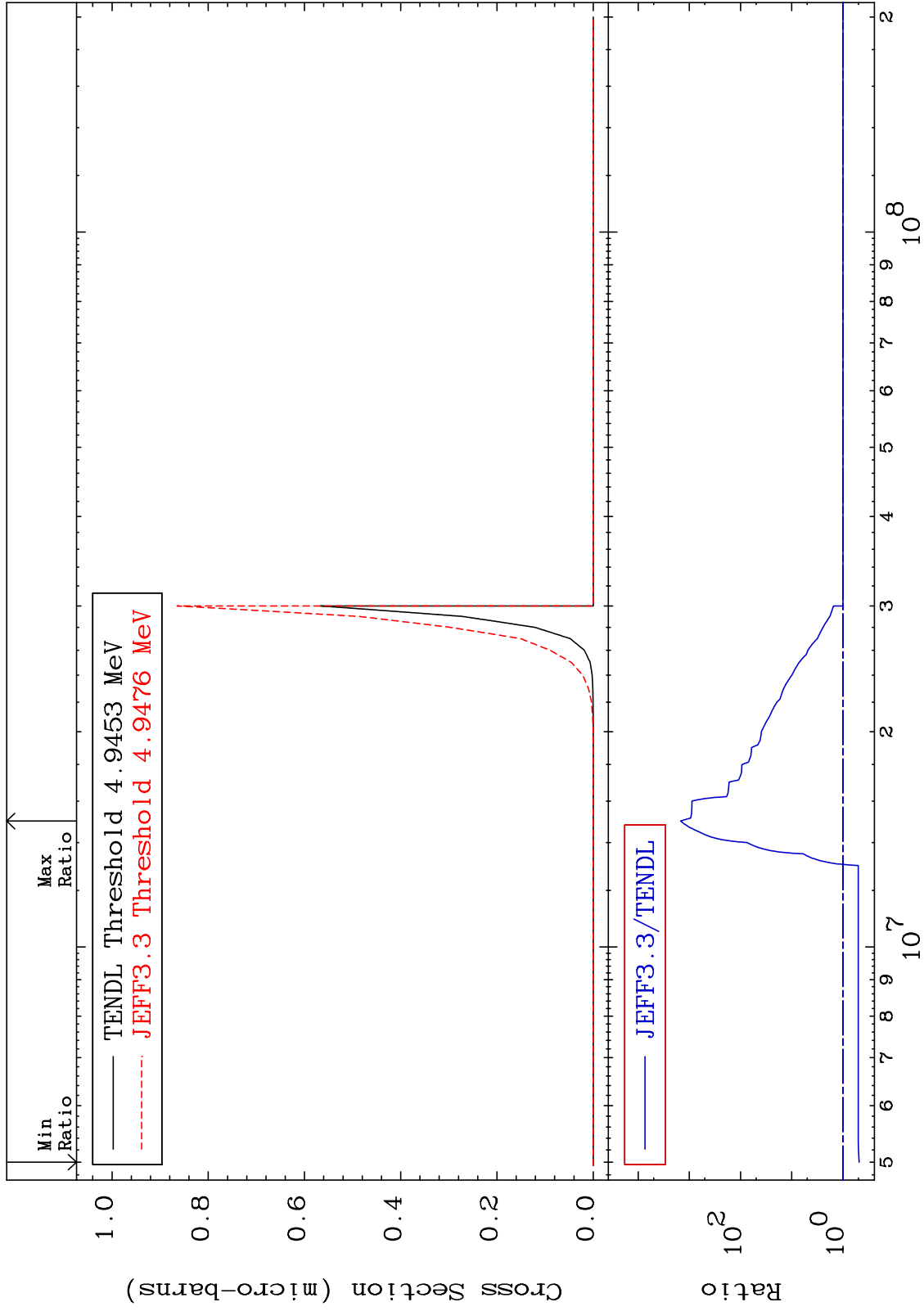


MAT 7025

(n, n') p  $\alpha$ : 67-Ho-163g

70-Yb-168

Radionuclide Production Cross Section -51.77 To 9999. %



80

Incident Energy (eV)

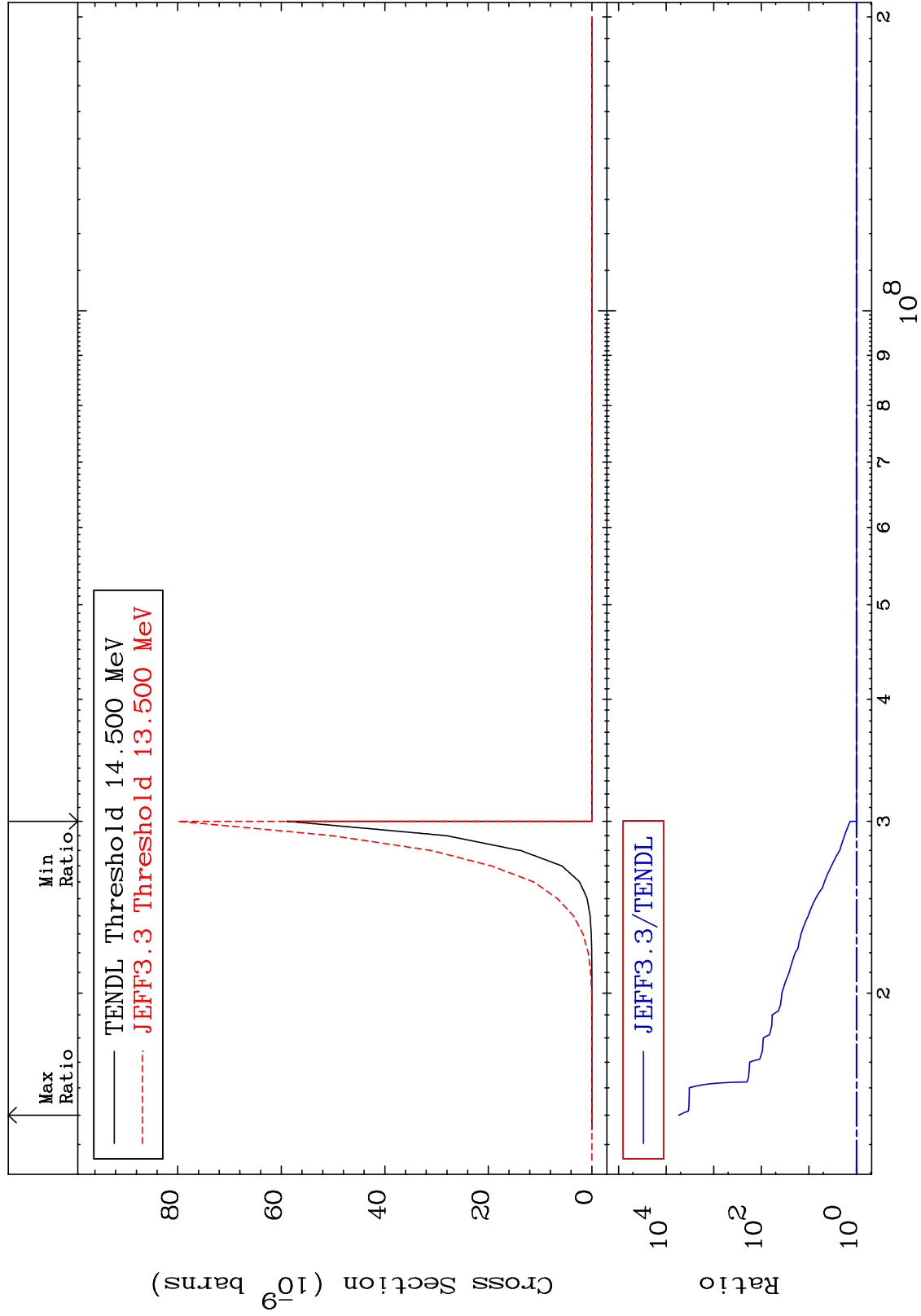
70-Yb-168

MAT 7025

(n, n') p  $\alpha$ : 67-Ho-163m3

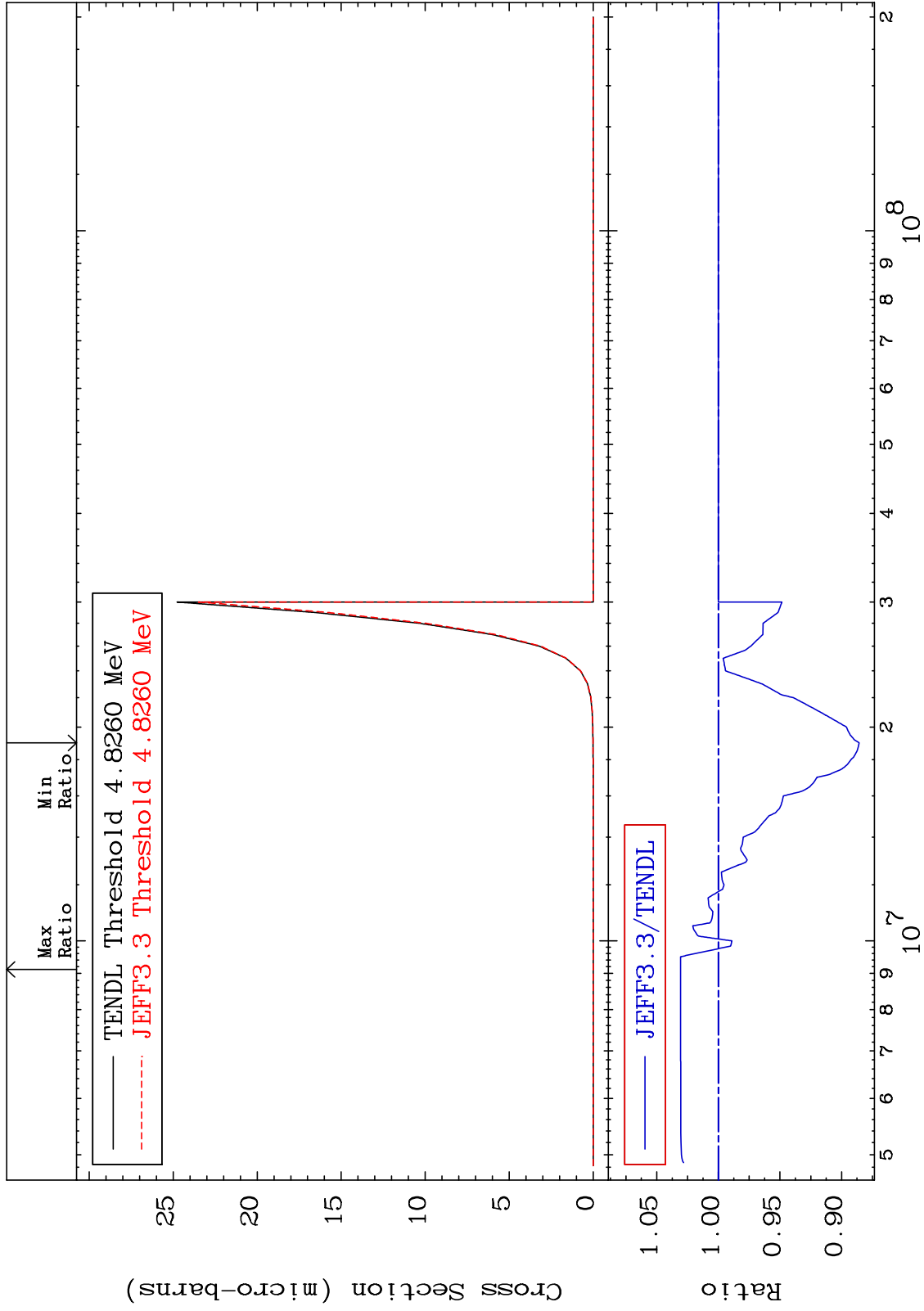
70-Yb-168

Radionuclide Production Cross Section 0.000 To 9999. %



MAT 7025

(n,2p) : 68-Er-167g 70-Yb-168  
Radionuclide Production Cross Section -11.43 To 3.064 %

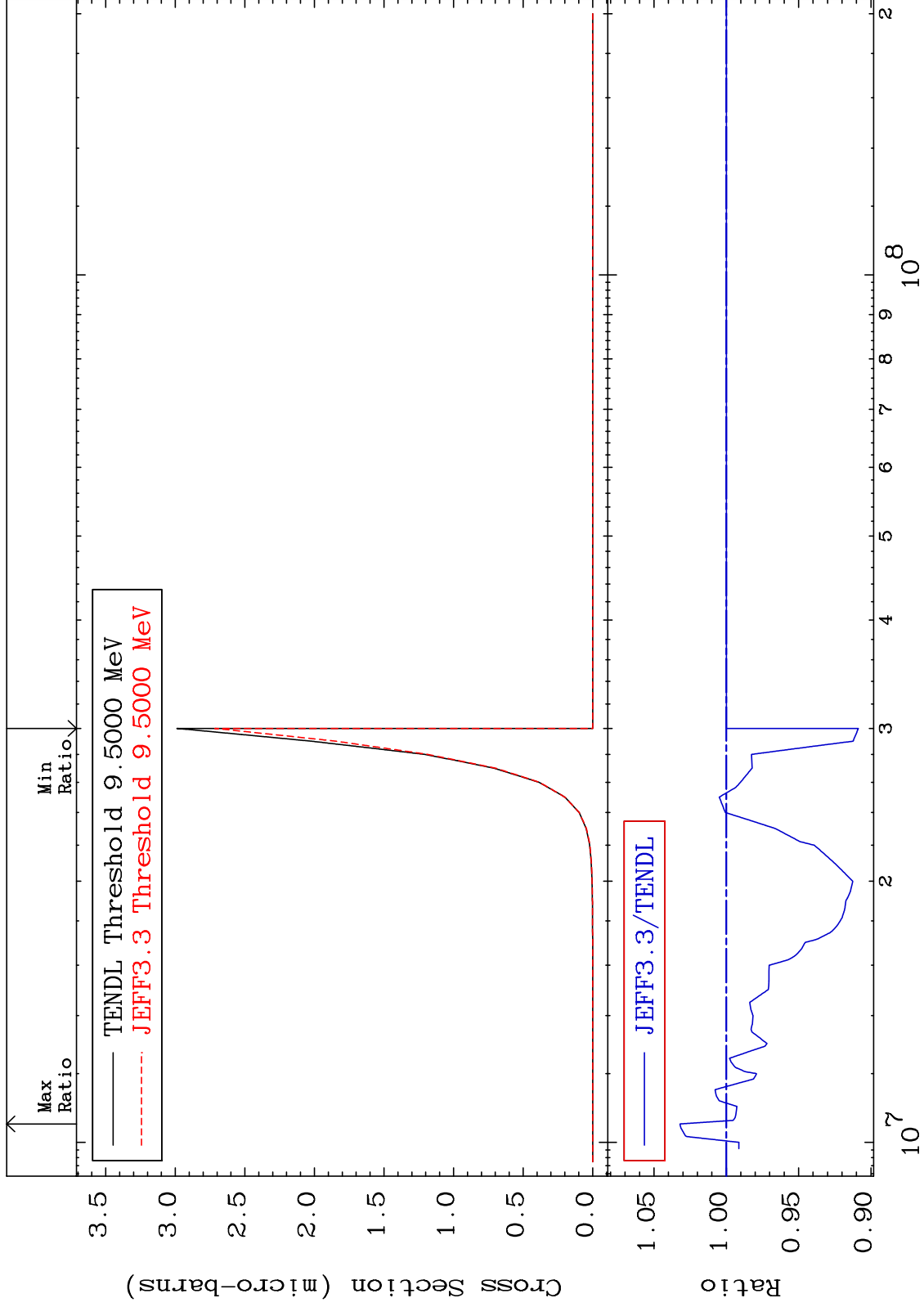


MAT 7025

(n,2p): 68-Er-167m3

70-Yb-168

Radionuclide Production Cross Section -9.134 To 3.200 %



83

Incident Energy (eV)

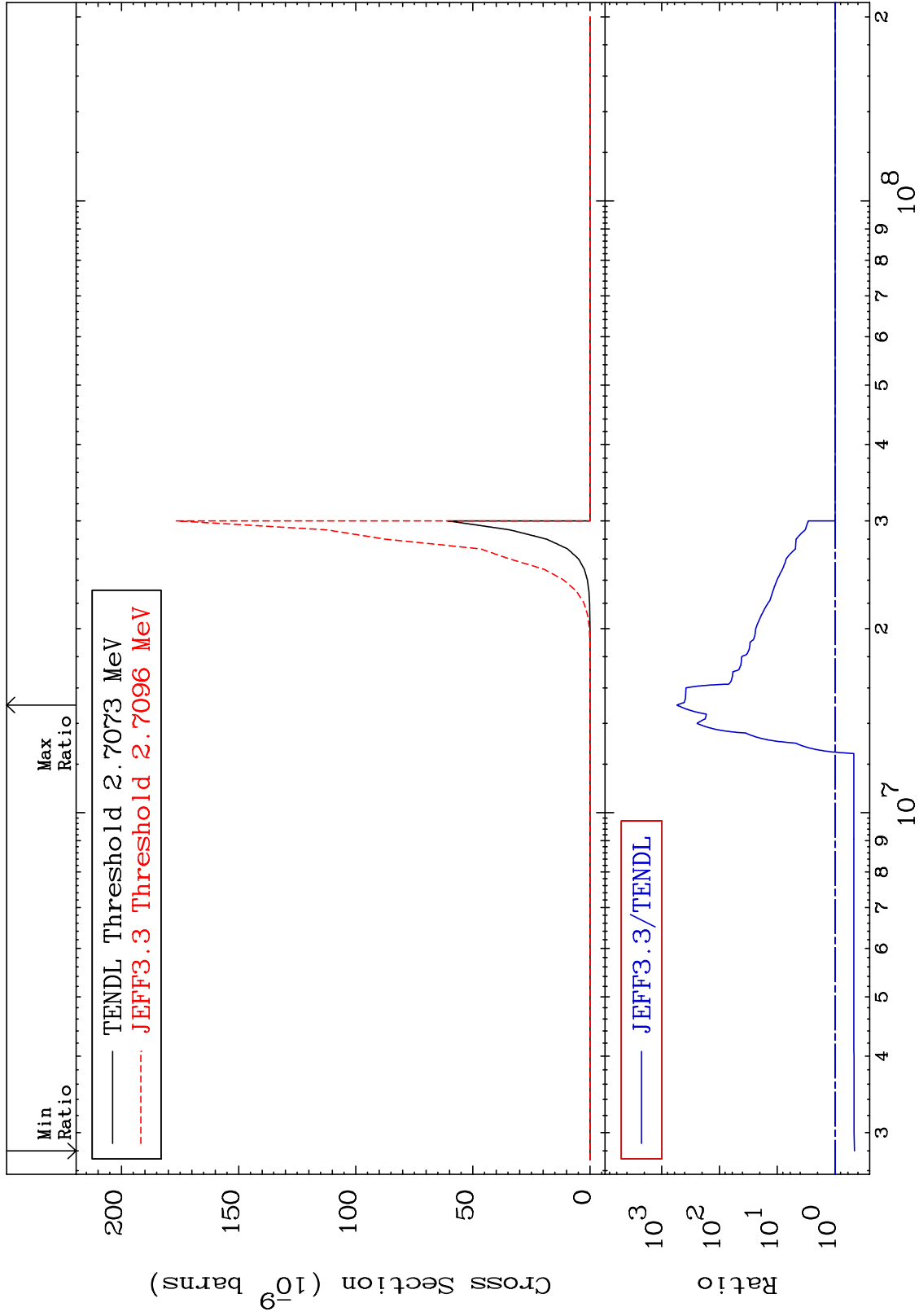
70-Yb-168

MAT 7025

(n, d)  $\alpha$ : 67-Ho-163g

70-Yb-168

Radionuclide Production Cross Section -53.95 To 9999. %



MAT 7025

(n,d)  $\alpha$ :67-Ho-163m3

70-Yb-168

Radionuclide Production Cross Section 0.000 To 9999. %

