

Program Complot  
(Version 2018-1)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550

U.S.A.

Tele: 925-443-1911

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

Press Mouse Button to Start

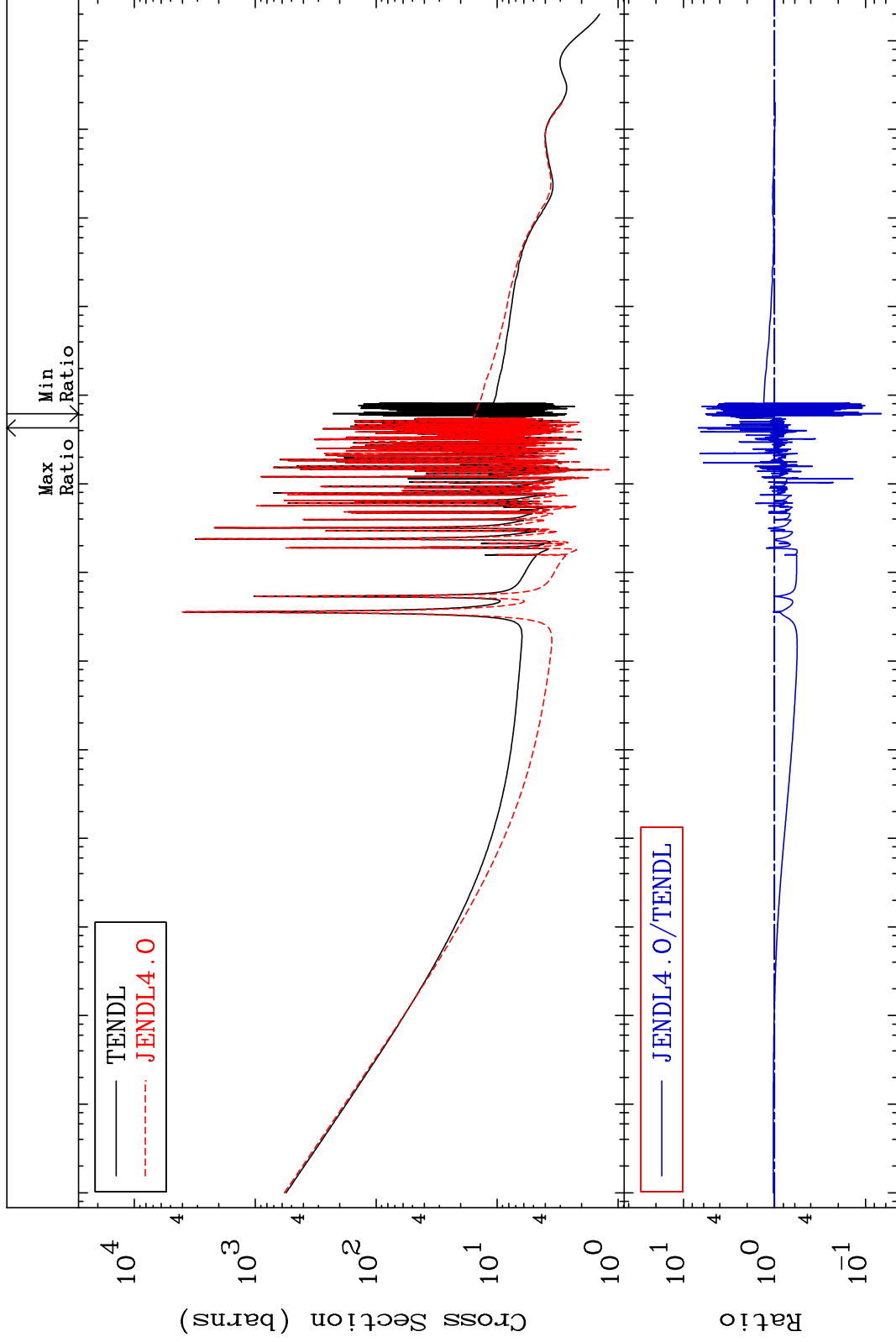
MAT 3525

Total

35-Br-79

Cross Section

-93.32 To 585.9 %



Incident Energy (eV)

35-Br-79

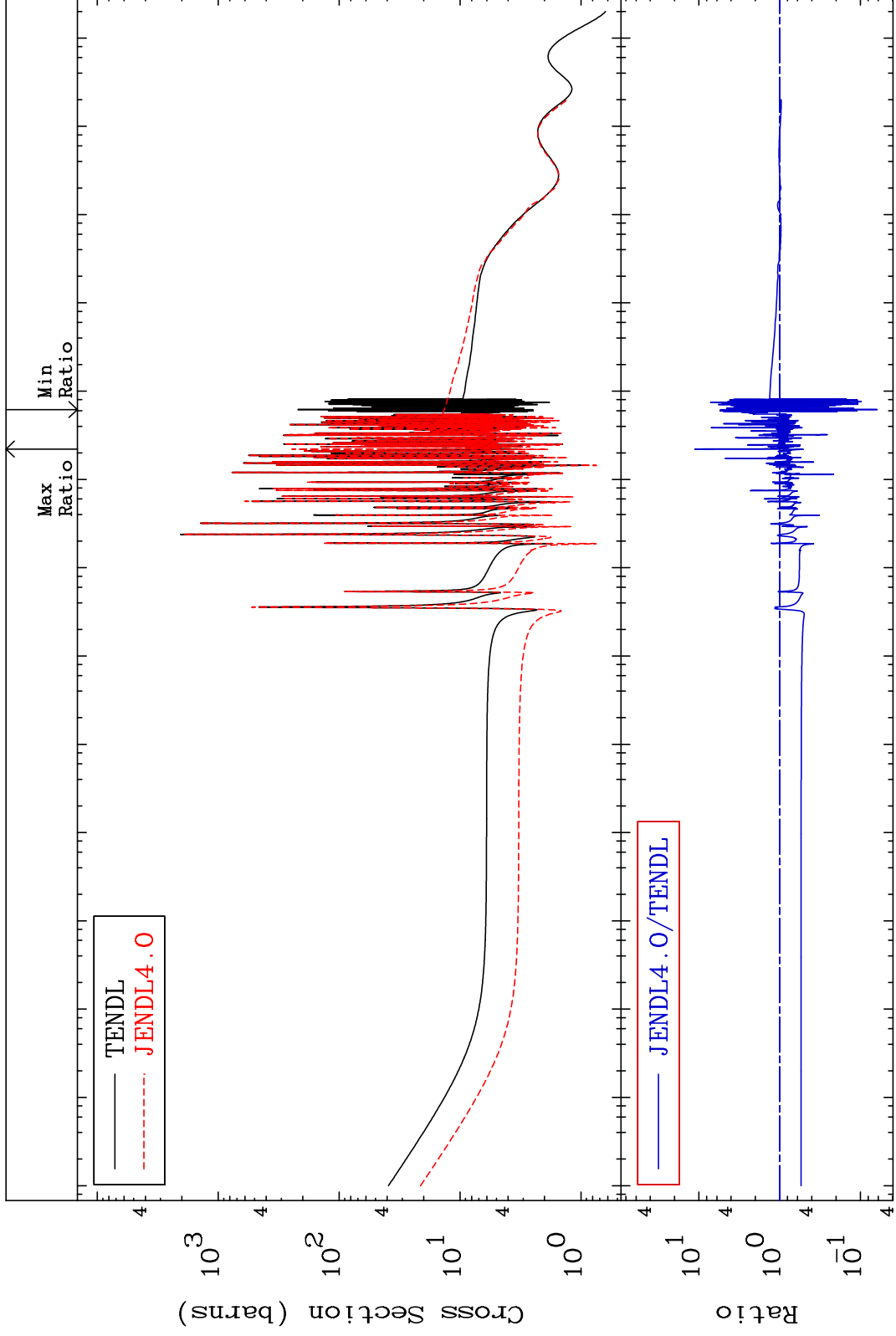
MAT 3525

Elastic

35-Br-79

Cross Section

-93.84 To 1021. %



Incident Energy (eV)

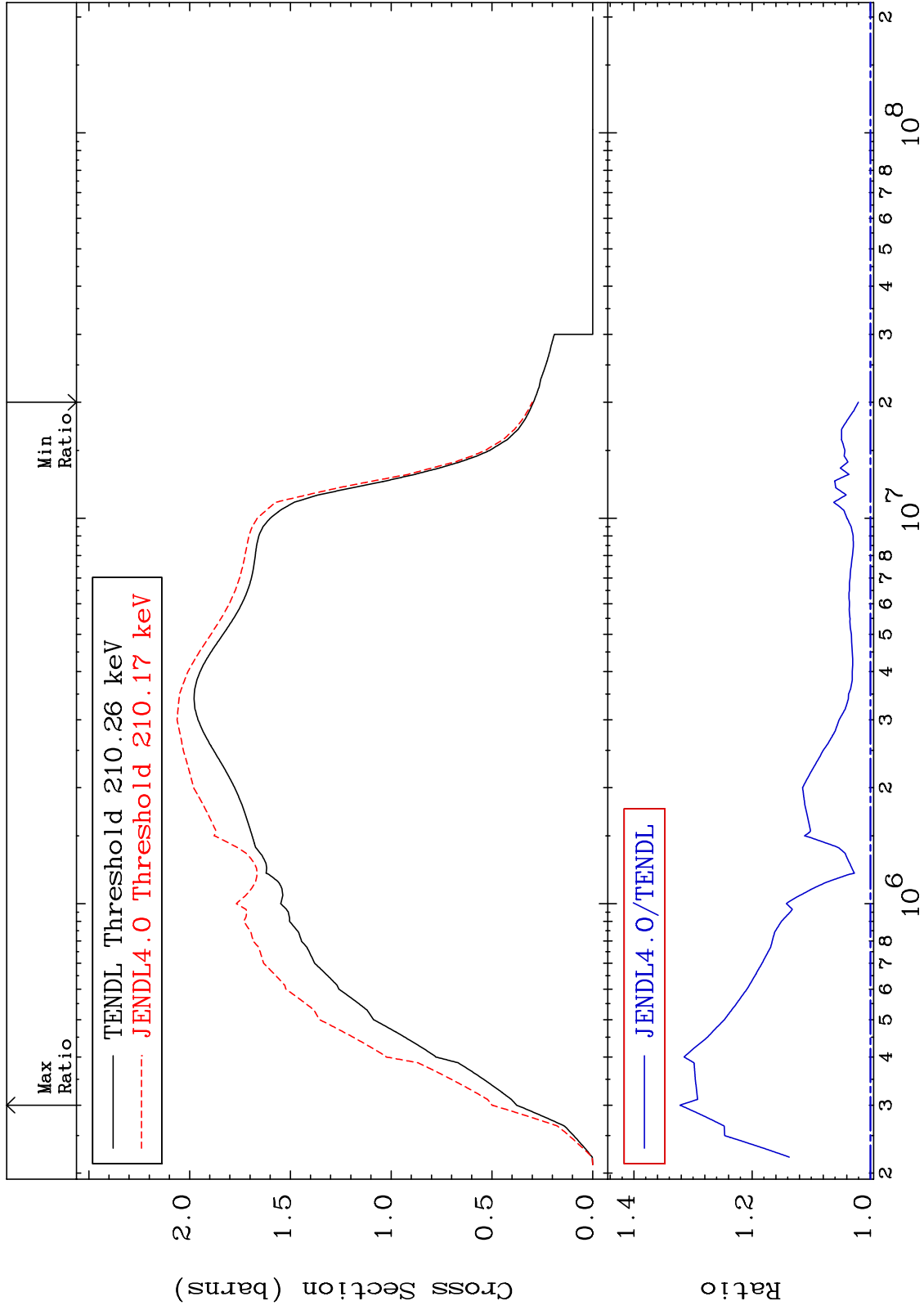
35-Br-79

2

MAT 3525

Inelastic  
Cross Section

35-Br-79  
2.037 To 32.20 %



Incident Energy (eV)

35-Br-79

3

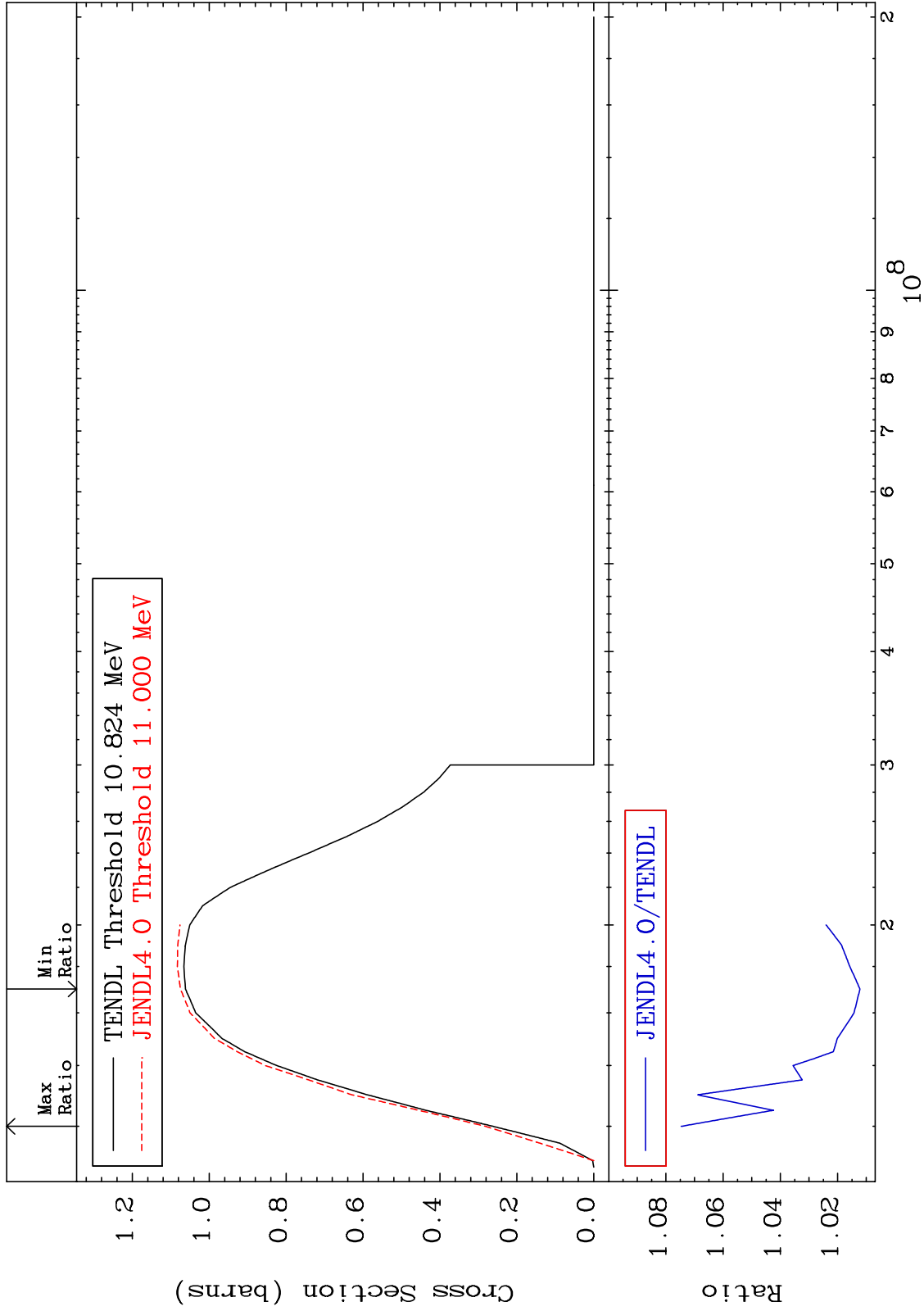
MAT 3525

(n,2n)

35-Br-79

Cross Section

1.222 To 7.464 %



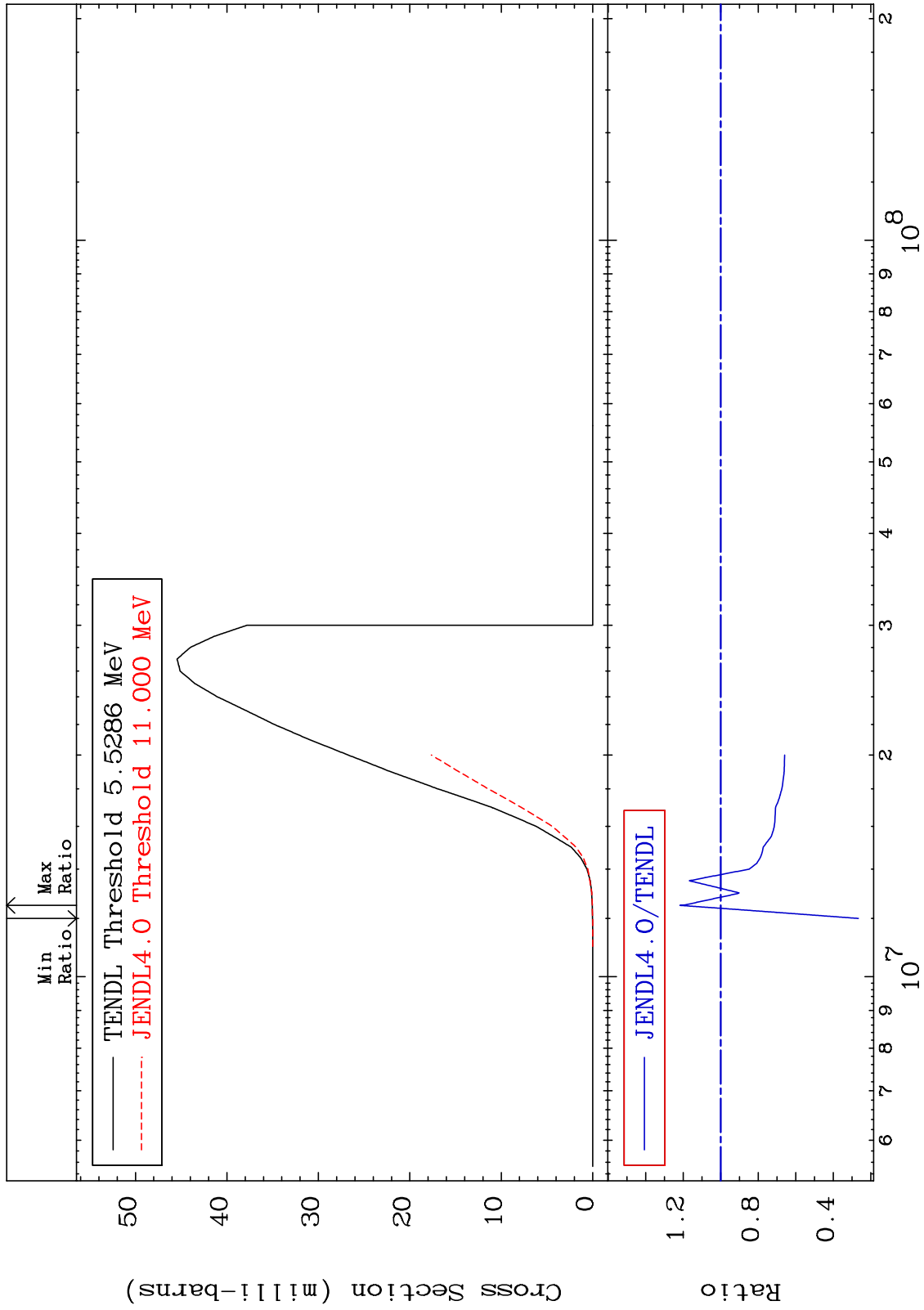
MAT 3525

(n, n')  $\alpha$

35-Br-79

Cross Section

-73.35 To 21.72 %



5

Incident Energy (eV)

35-Br-79

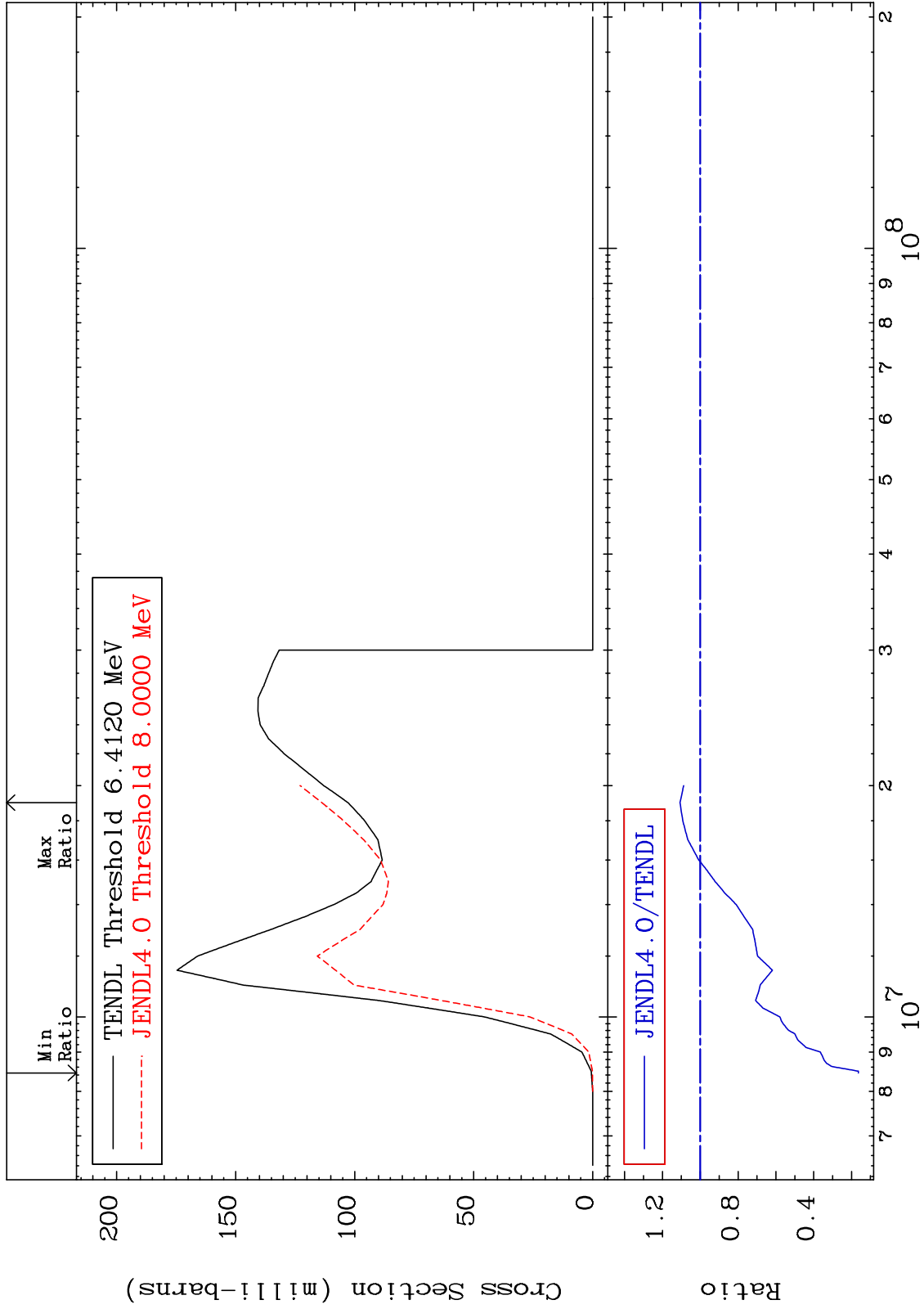
MAT 3525

(n,n') p

35-Br-79

Cross Section

-83.64 To 10.71 %



6

Incident Energy (eV)

35-Br-79

MAT 3525

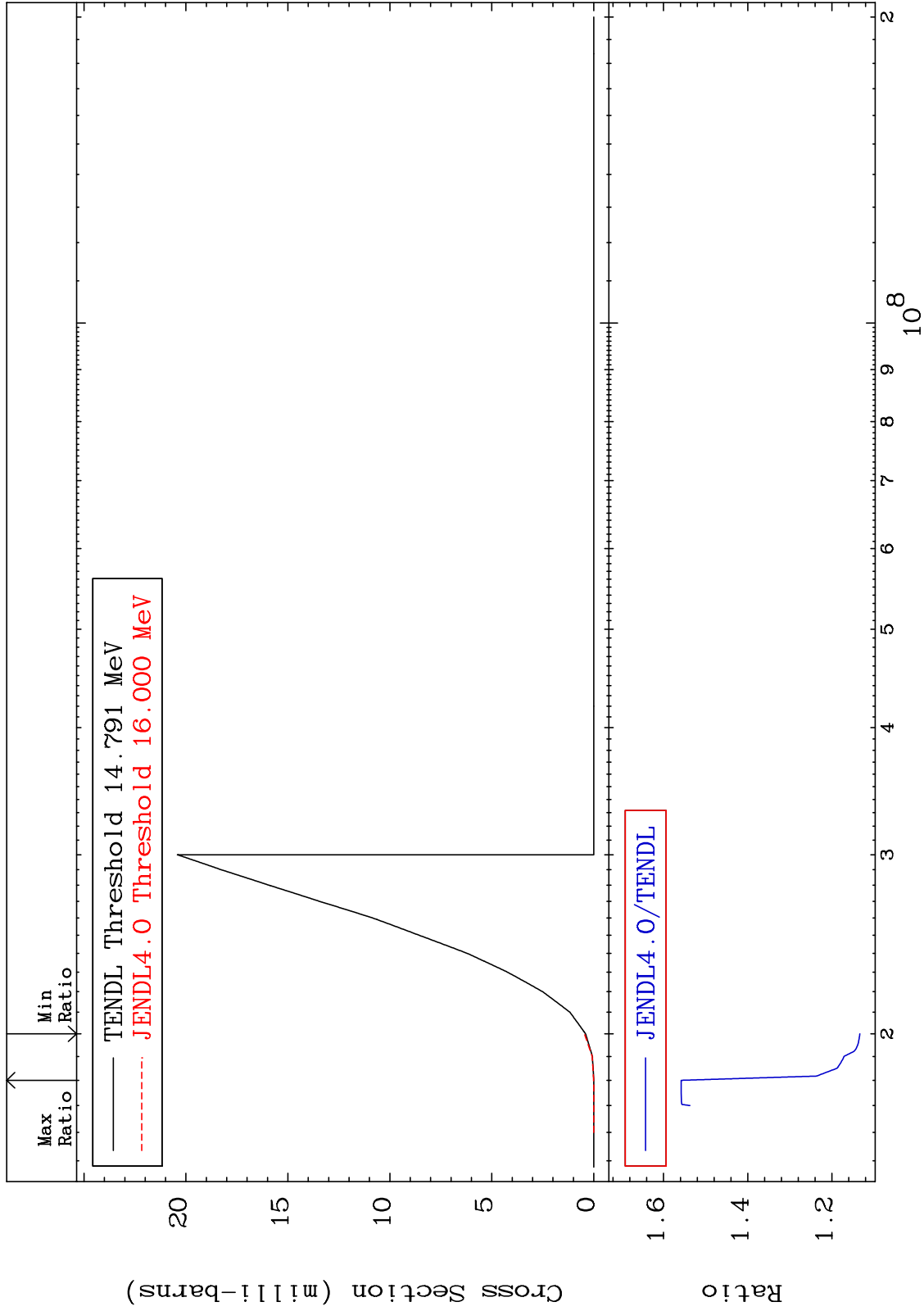
(n,n') d

35-Br-79

Cross Section

13.34

To 55.80 %





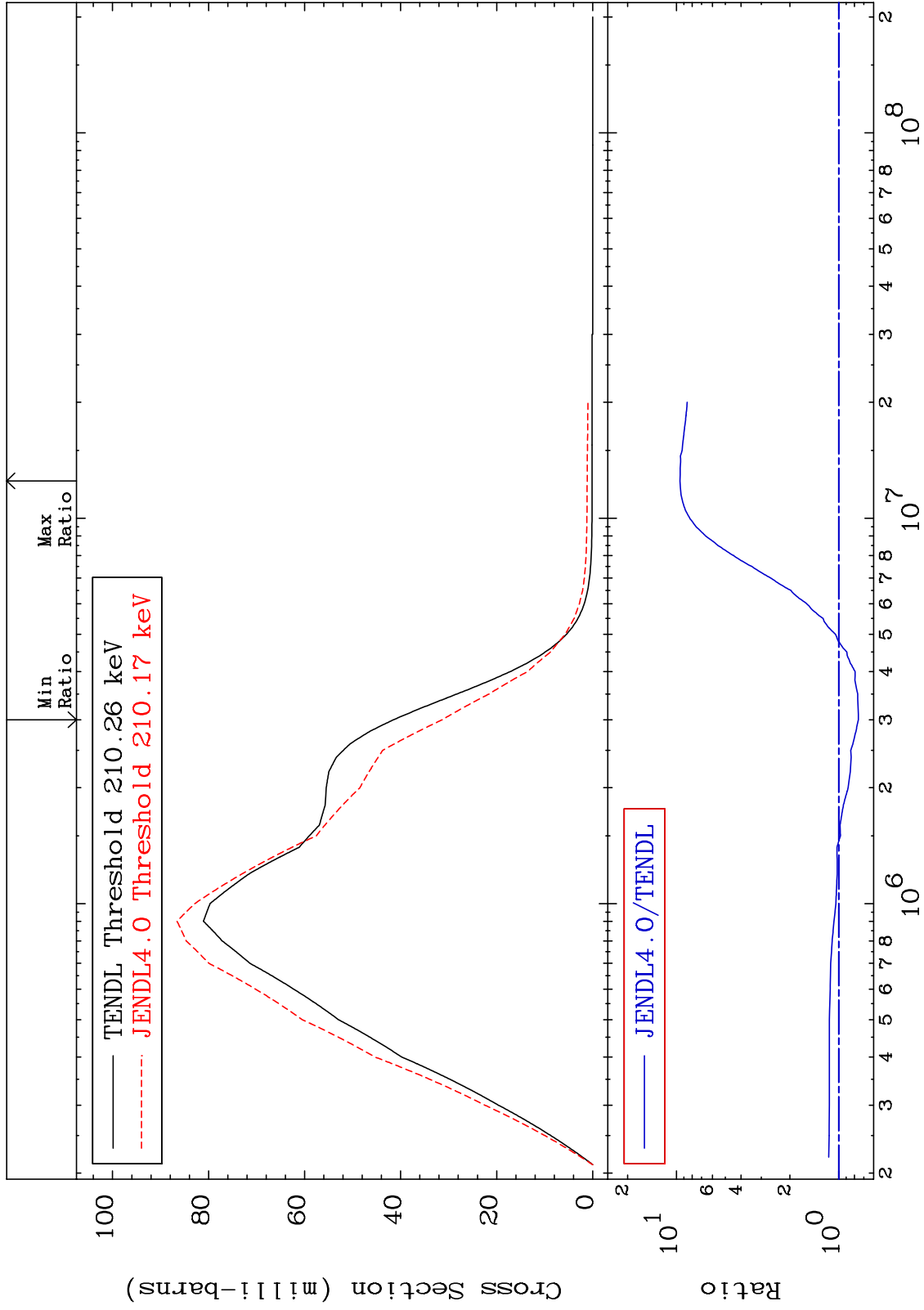
MAT 3525

MT= 51 (n,n') Level

35-Br-79

-24.45 To 850.8 %

Cross Section

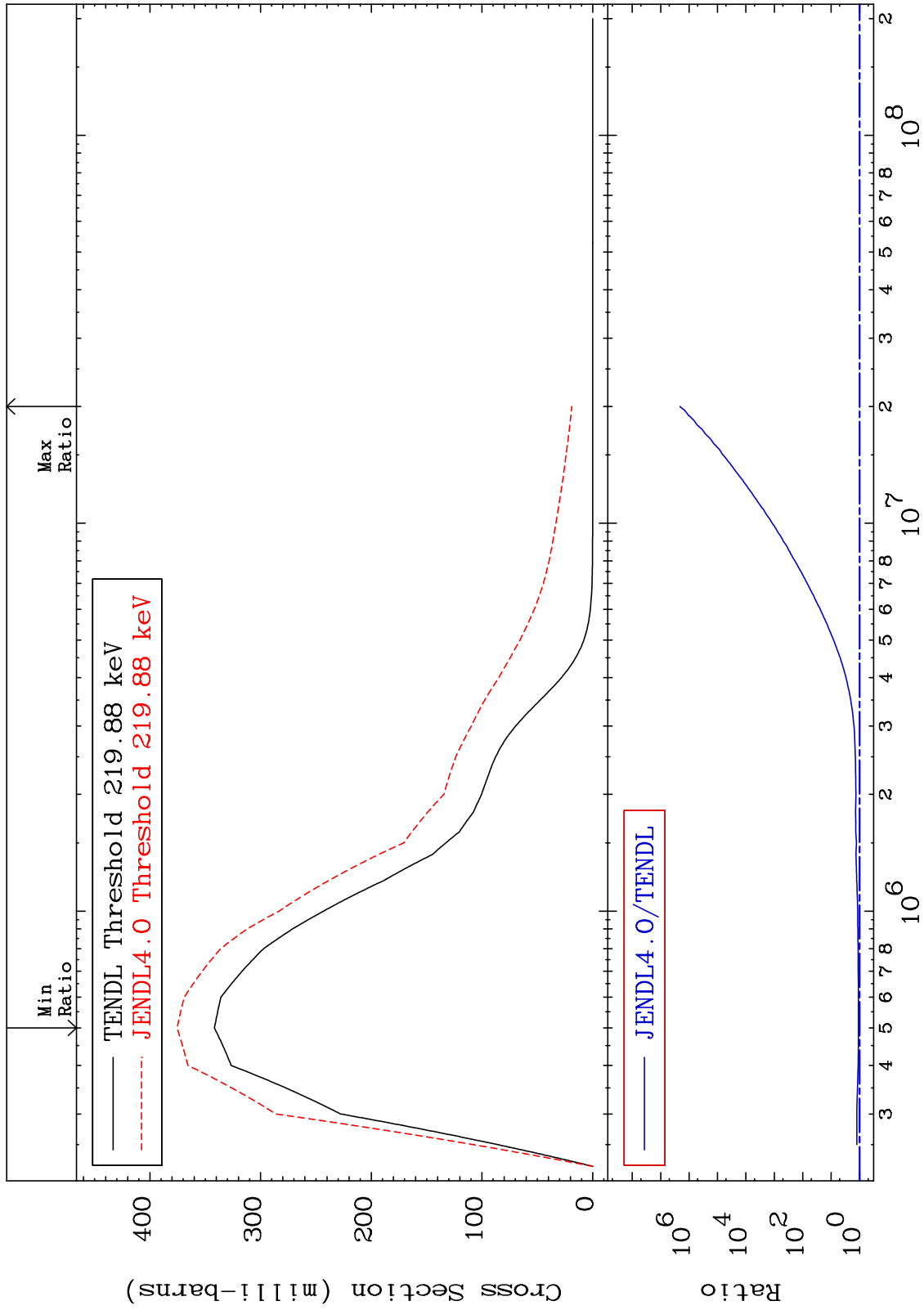


8

Incident Energy (eV)

35-Br-79

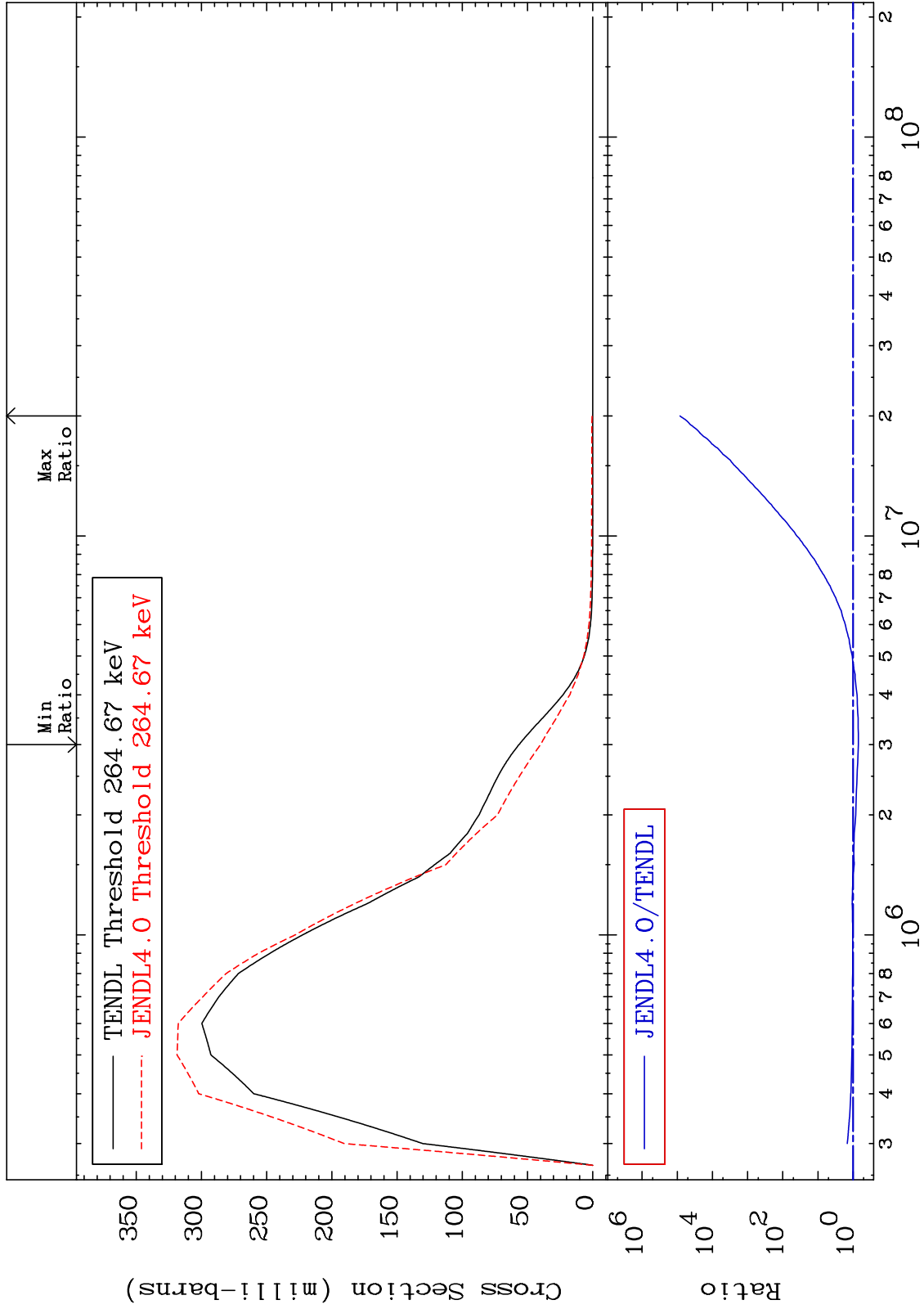
MAT 3525 MT= 52 (n,n') Level Cross Section 35-Br-79 9.874 To 9999. %



MAT 3525

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

35-Br-79  
-29.28 To 9999. %

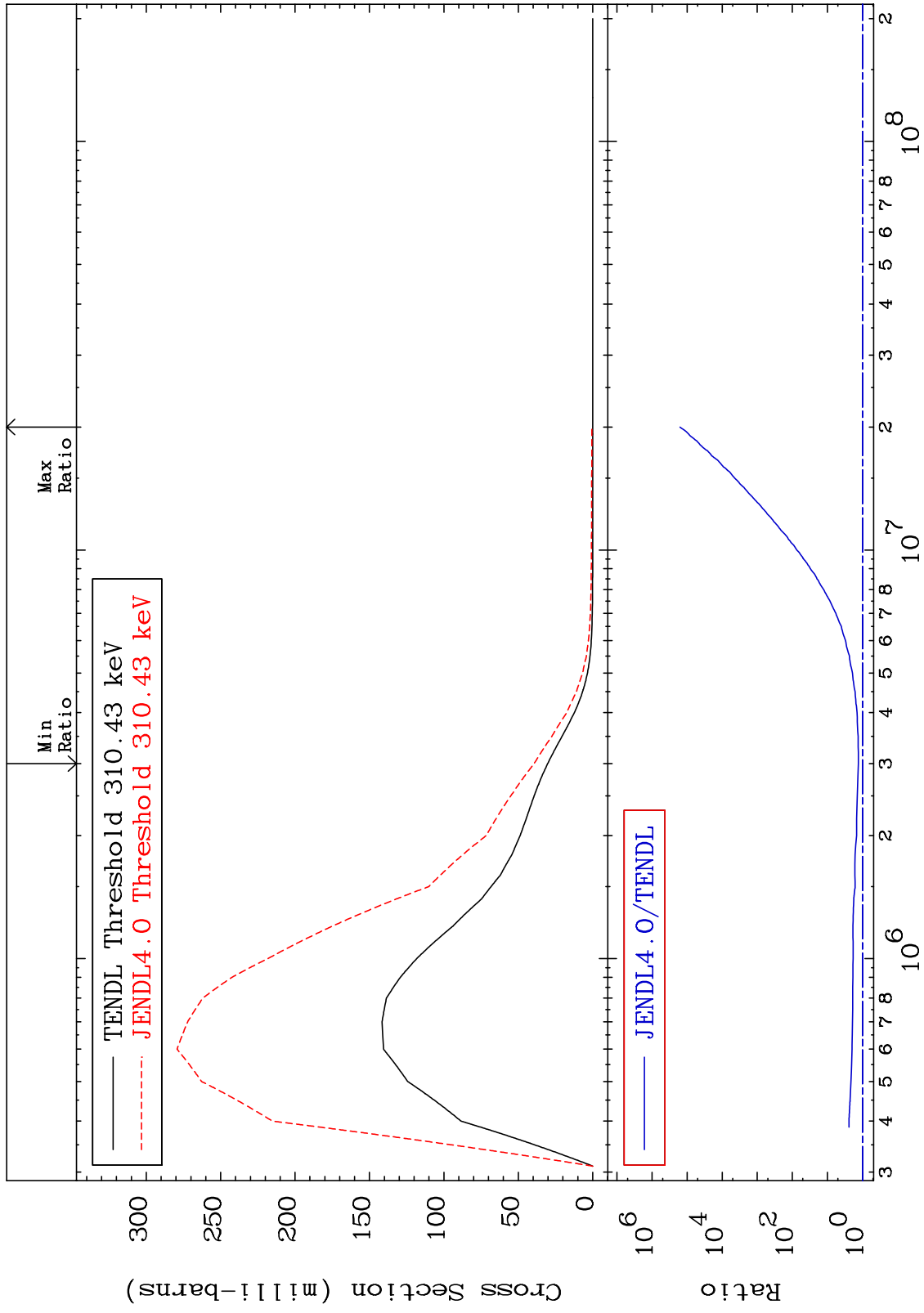


10

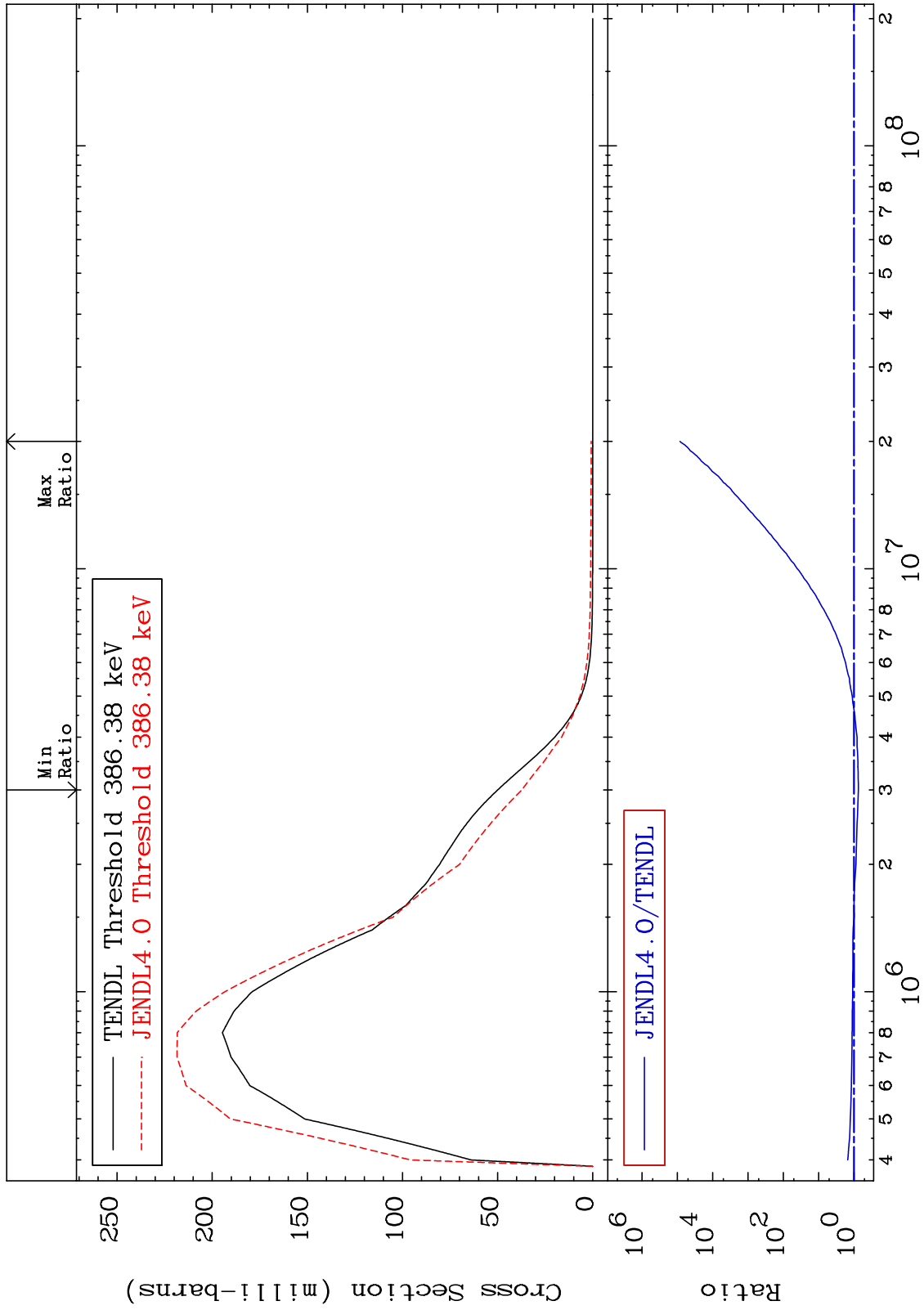
Incident Energy (eV)

35-Br-79

MAT 3525 MT= 54 (n,n') Level Cross Section 30.06 To 9999. % 35-Br-79



MAT 3525 MT= 55 (n,n') Level Cross Section -25.46 To 9999. % 35-Br-79



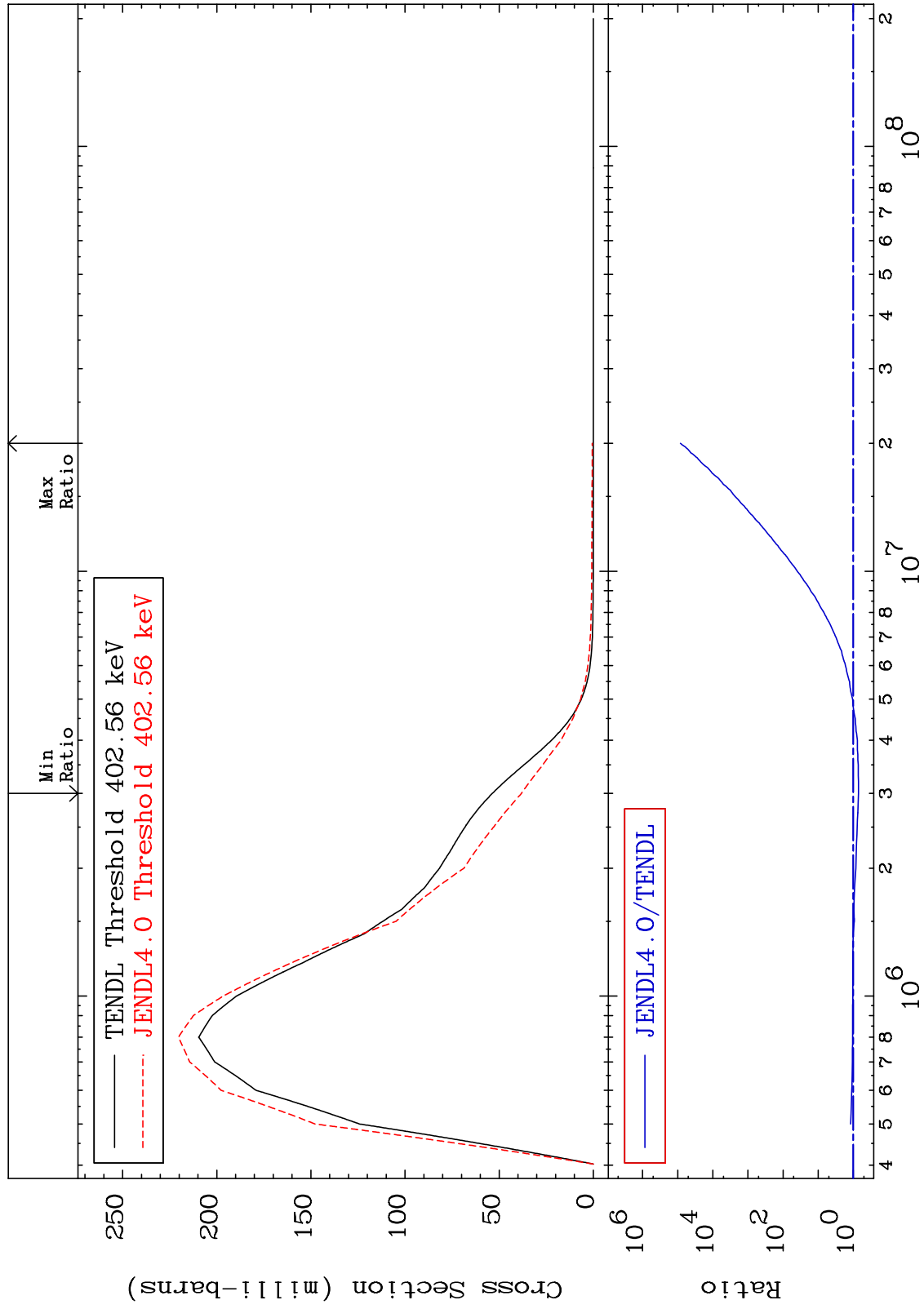
— TENDL Threshold 386.38 keV  
 - - - JENDL4.0 Threshold 386.38 keV

— JENDL4.0/TENDL

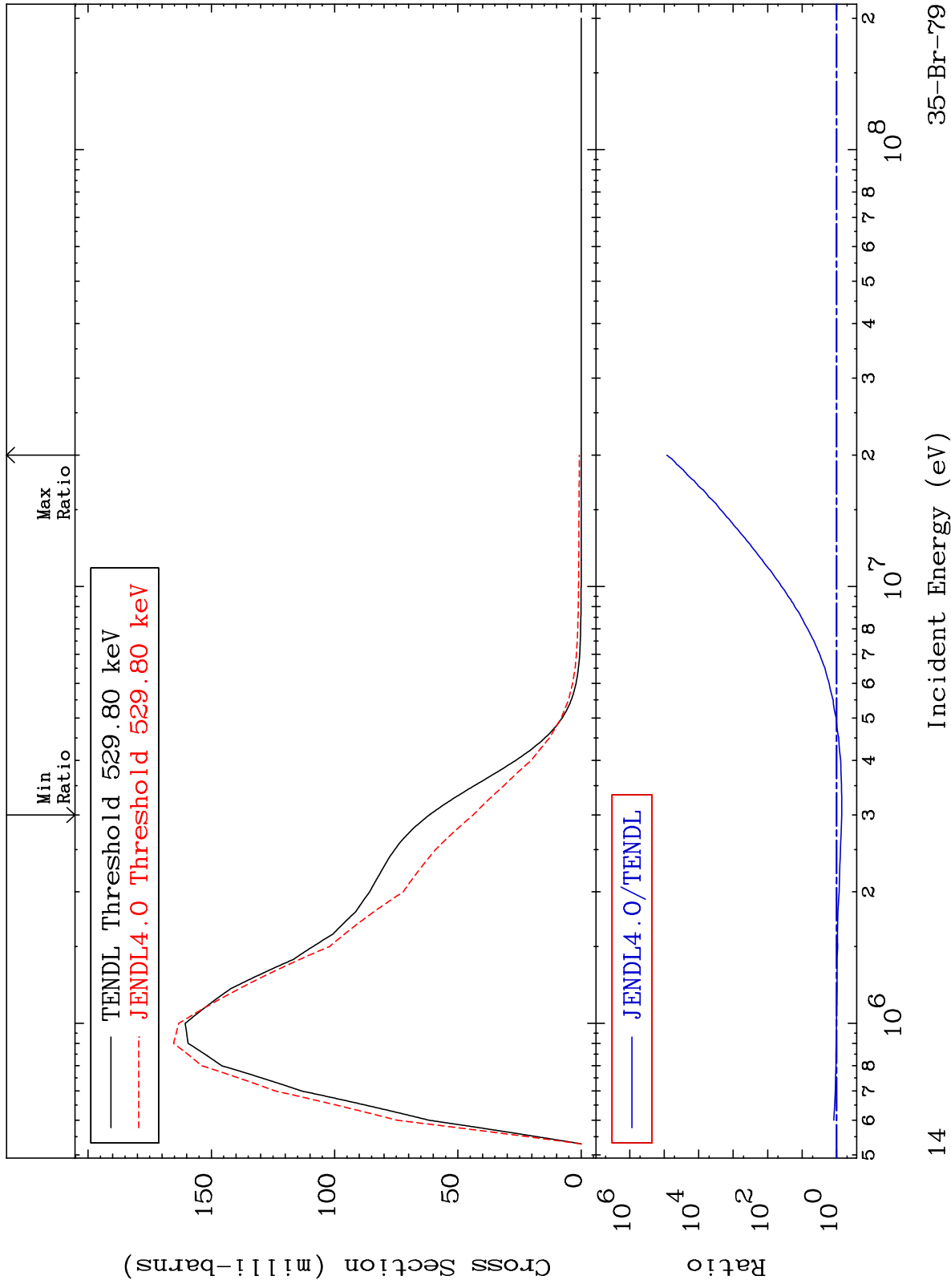
MAT 3525

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

35-Br-79  
-28.86 To 9999. %



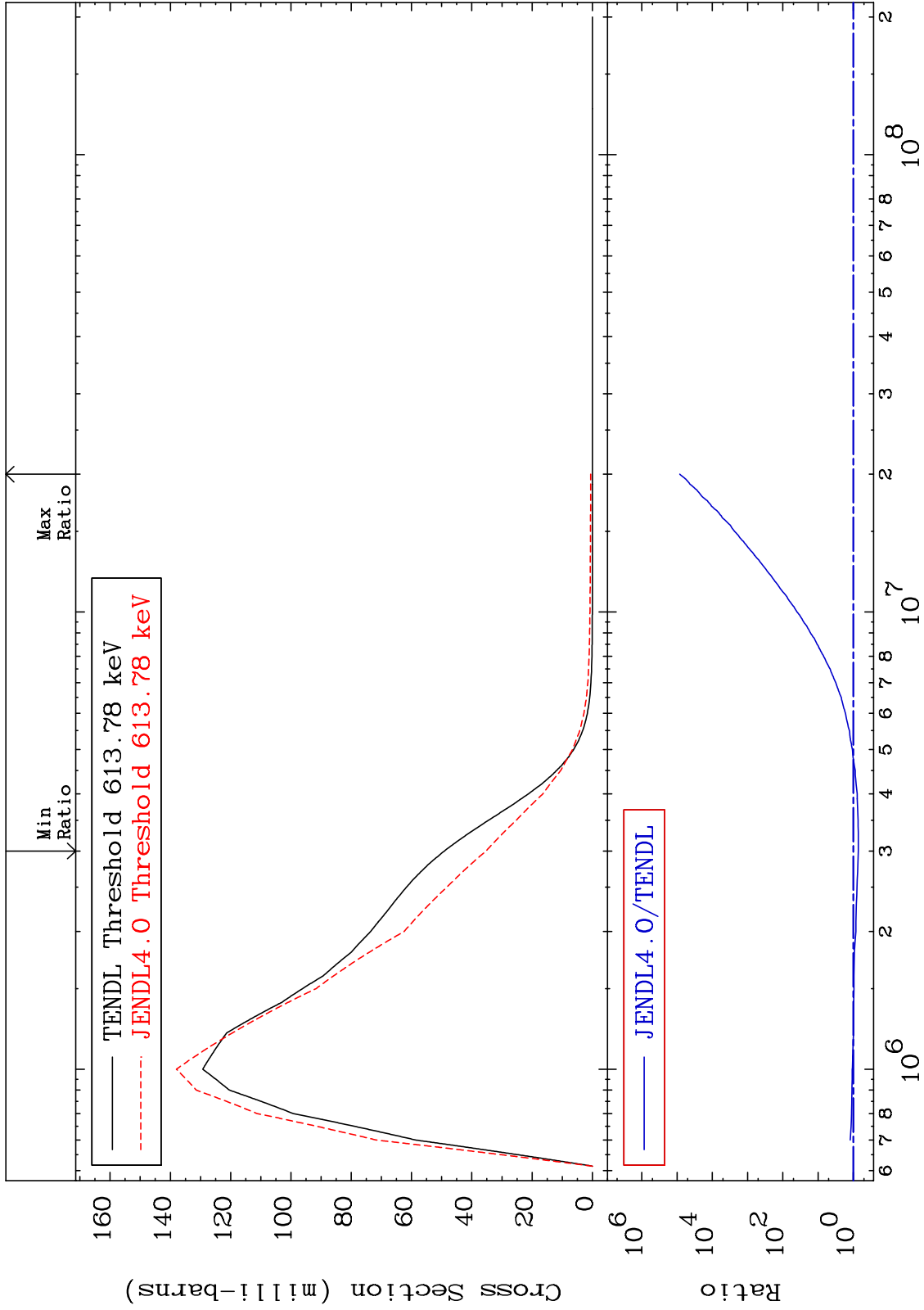
MAT 3525 MT= 57 (n,n') Level Cross Section -28.89 To 9999. % 35-Br-79



MAT 3525

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

35-Br-79  
-28.15 To 9999. %



15

Incident Energy (eV)

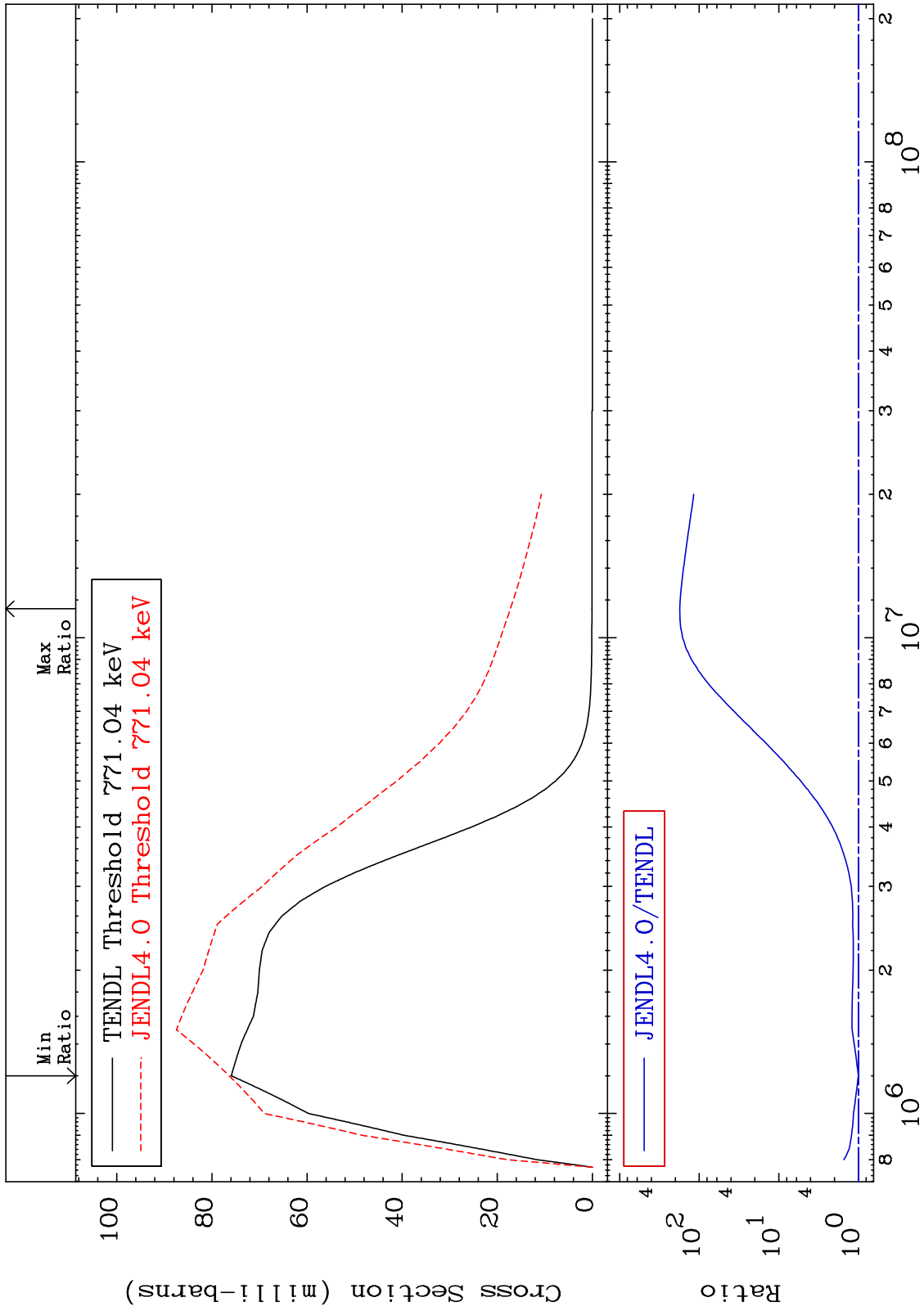
35-Br-79



MAT 3525

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

0.567 To 9999. %  
35-Br-79



16

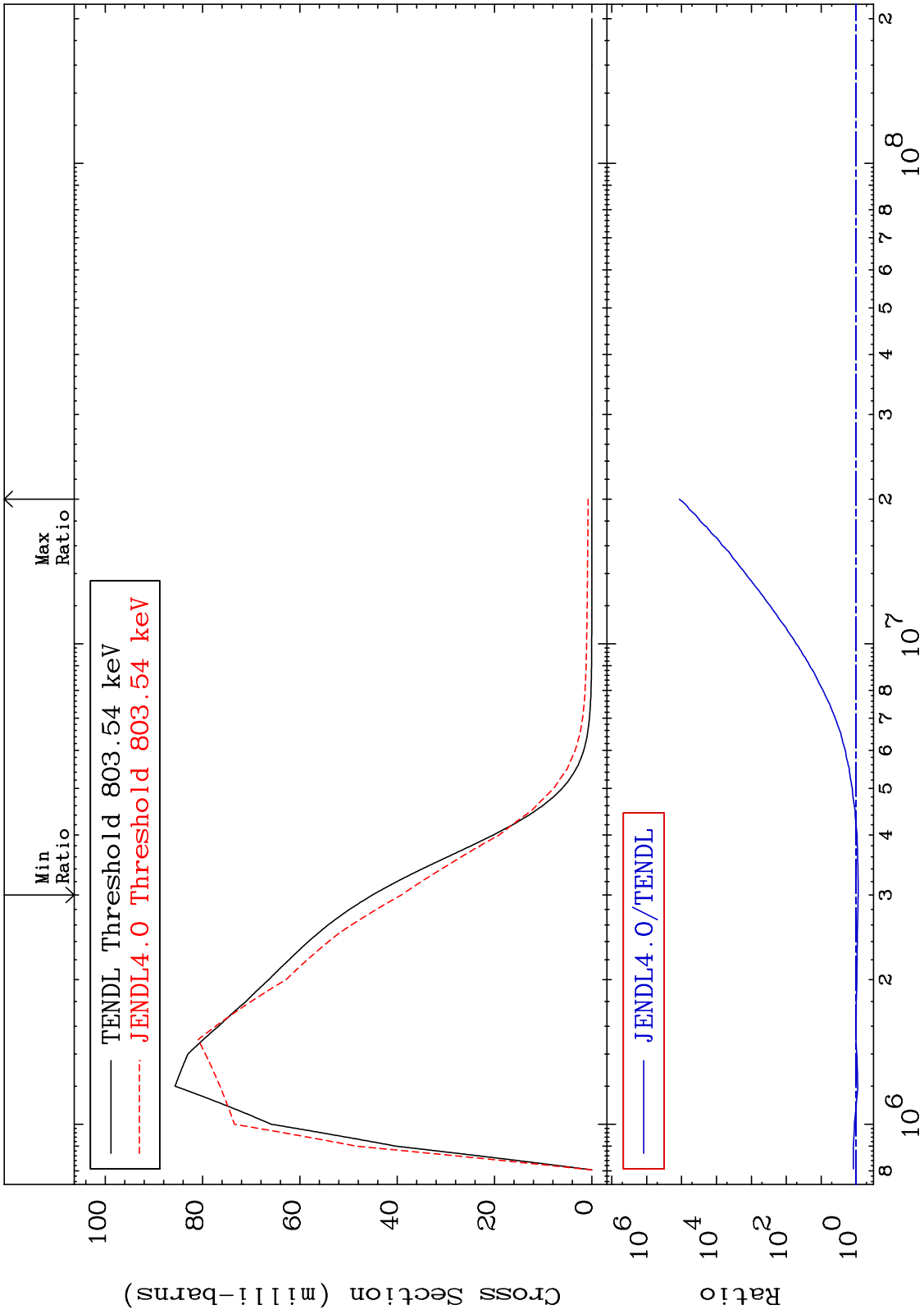
Incident Energy (eV)

35-Br-79

MAT 3525

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

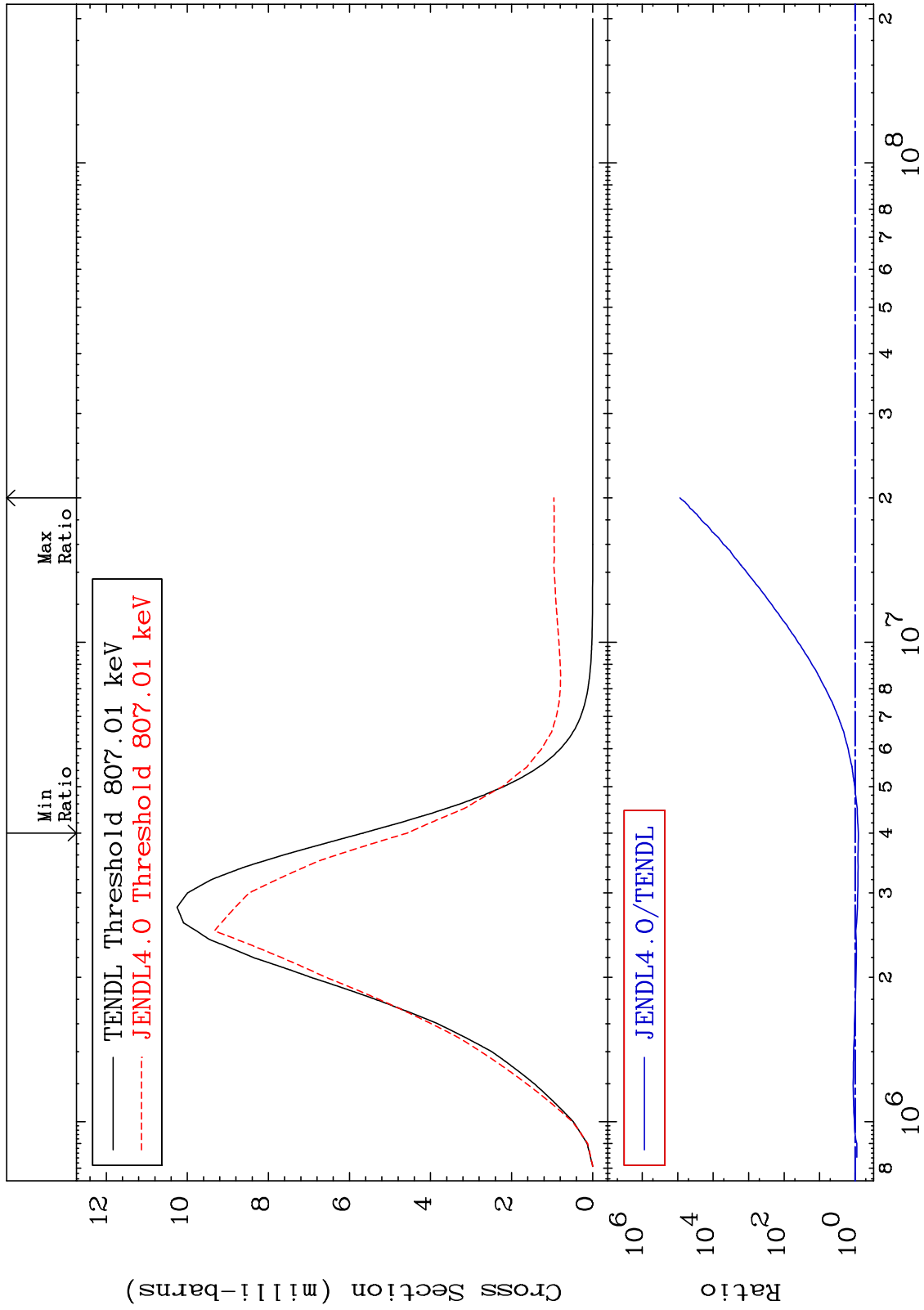
35-Br-79  
-13.18 To 9999. %



MAT 3525

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

35-Br-79  
-19.26 To 9999. %



18

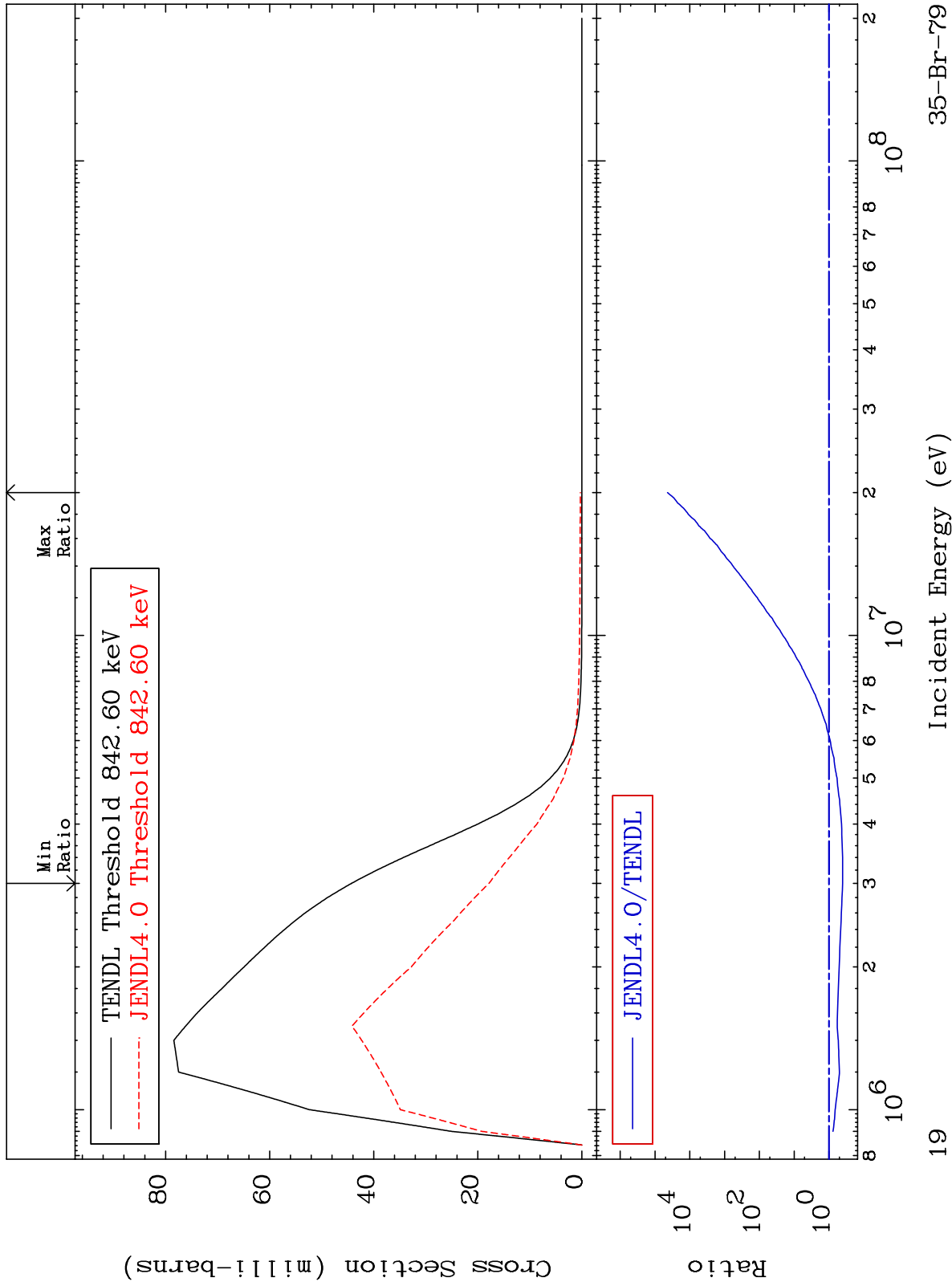
Incident Energy (eV)

35-Br-79

MAT 3525

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

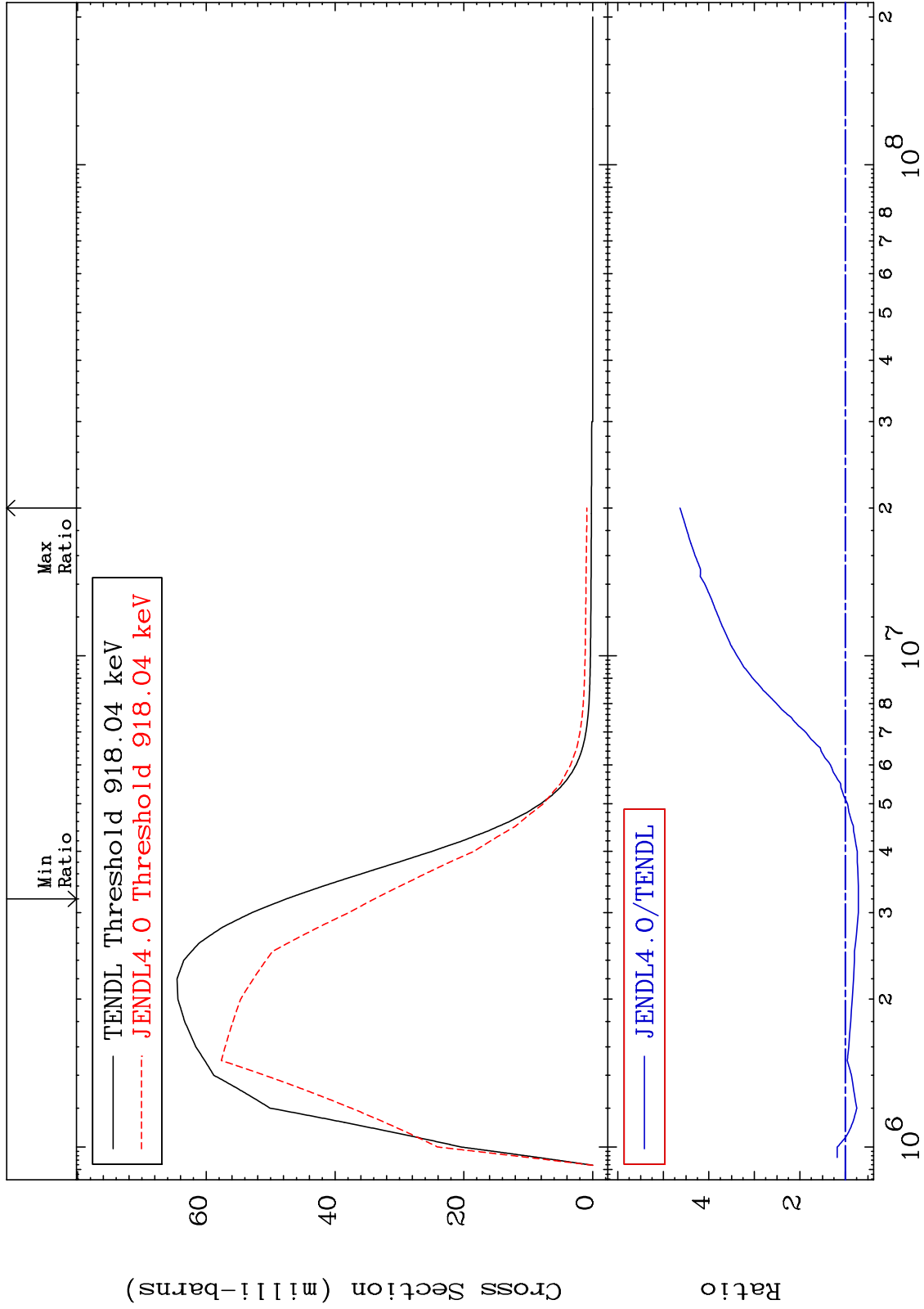
35-Br-79  
-59.71 To 9999. %



MAT 3525

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

35-Br-79  
-28.77 To 363.4 %



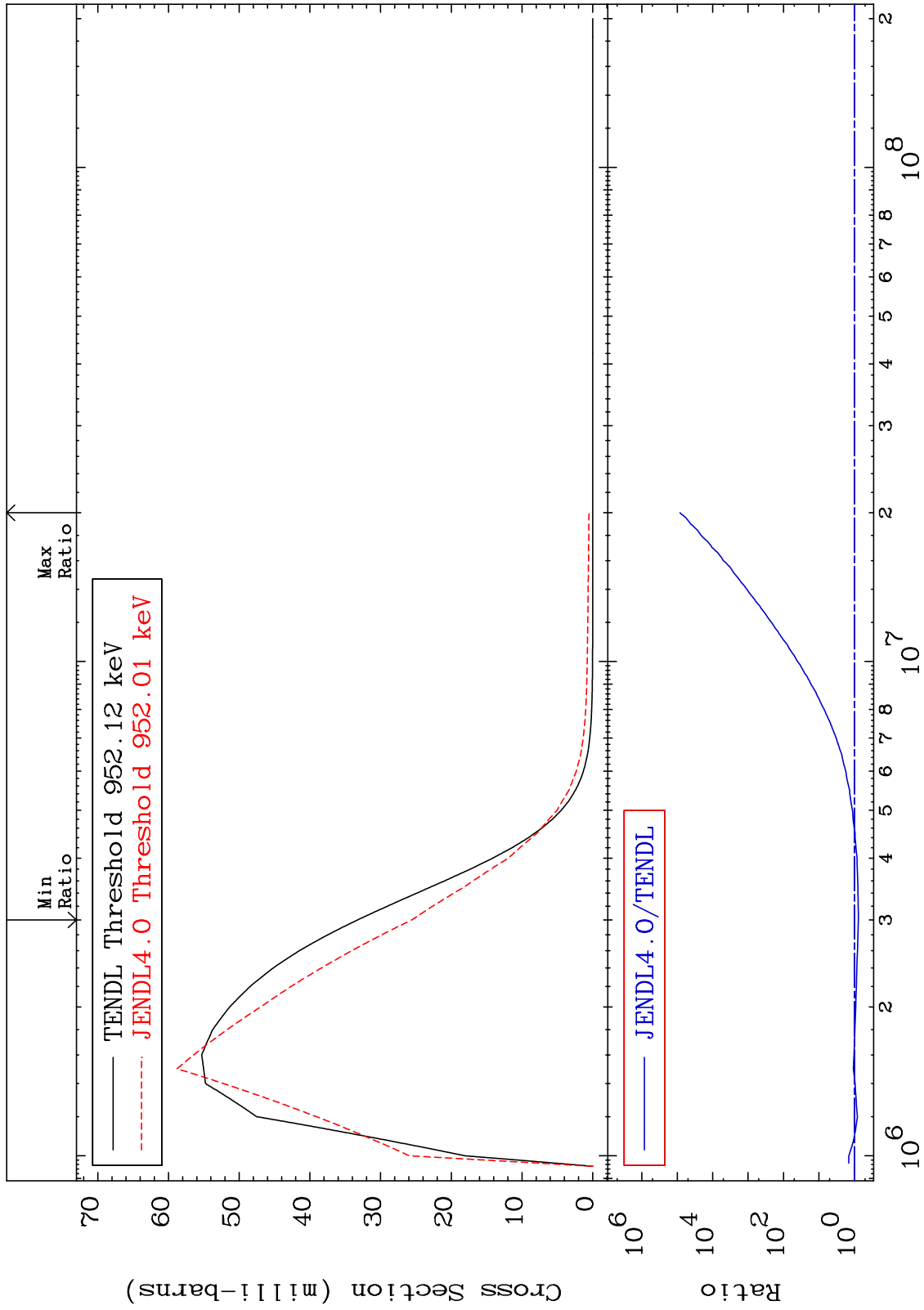
Incident Energy (eV)

35-Br-79

MAT 3525

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

35-Br-79  
-23.07 To 9999. %



21

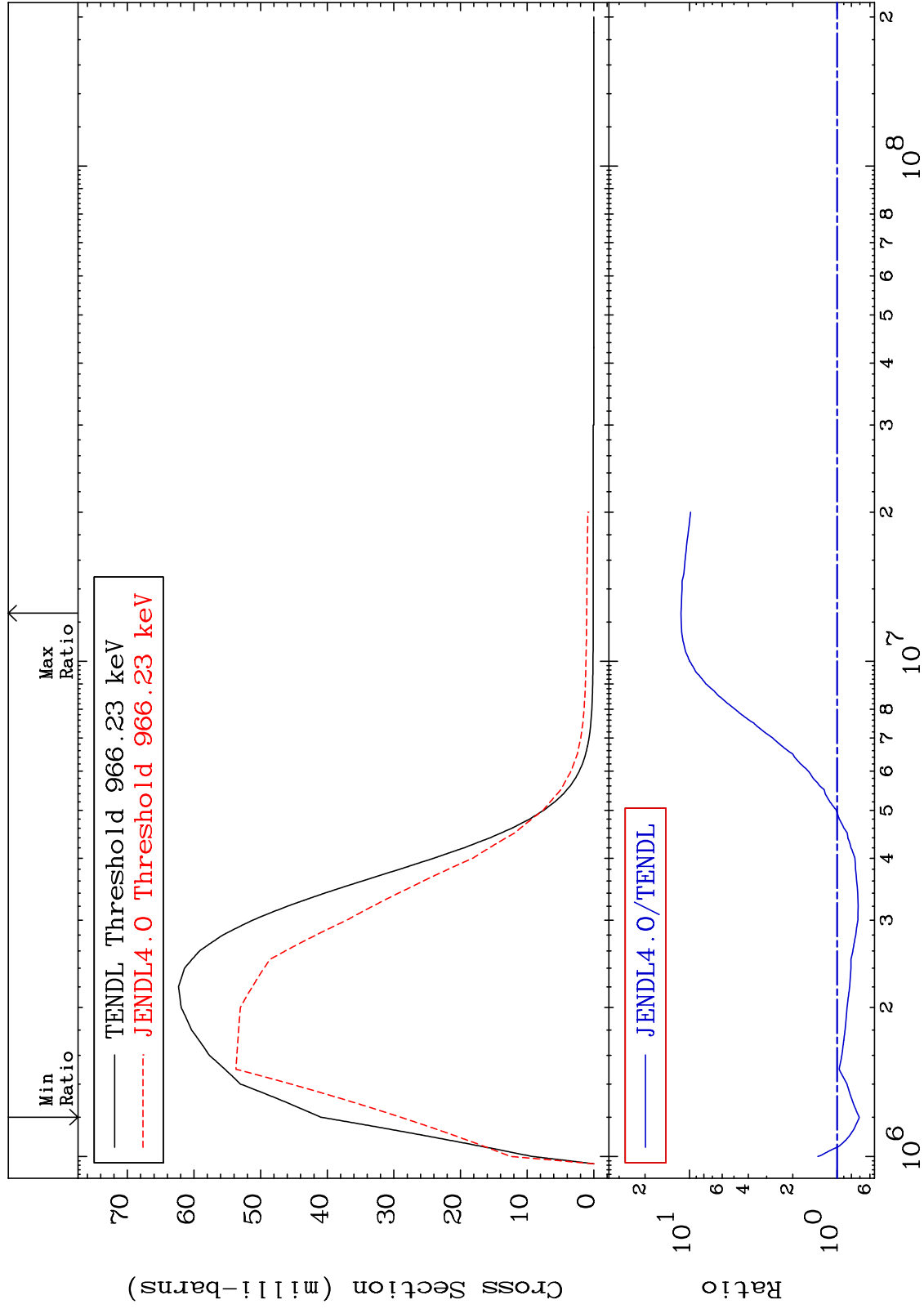
Incident Energy (eV)

35-Br-79

MAT 3525

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

35-Br-79  
-29.22 To 1040. %



22

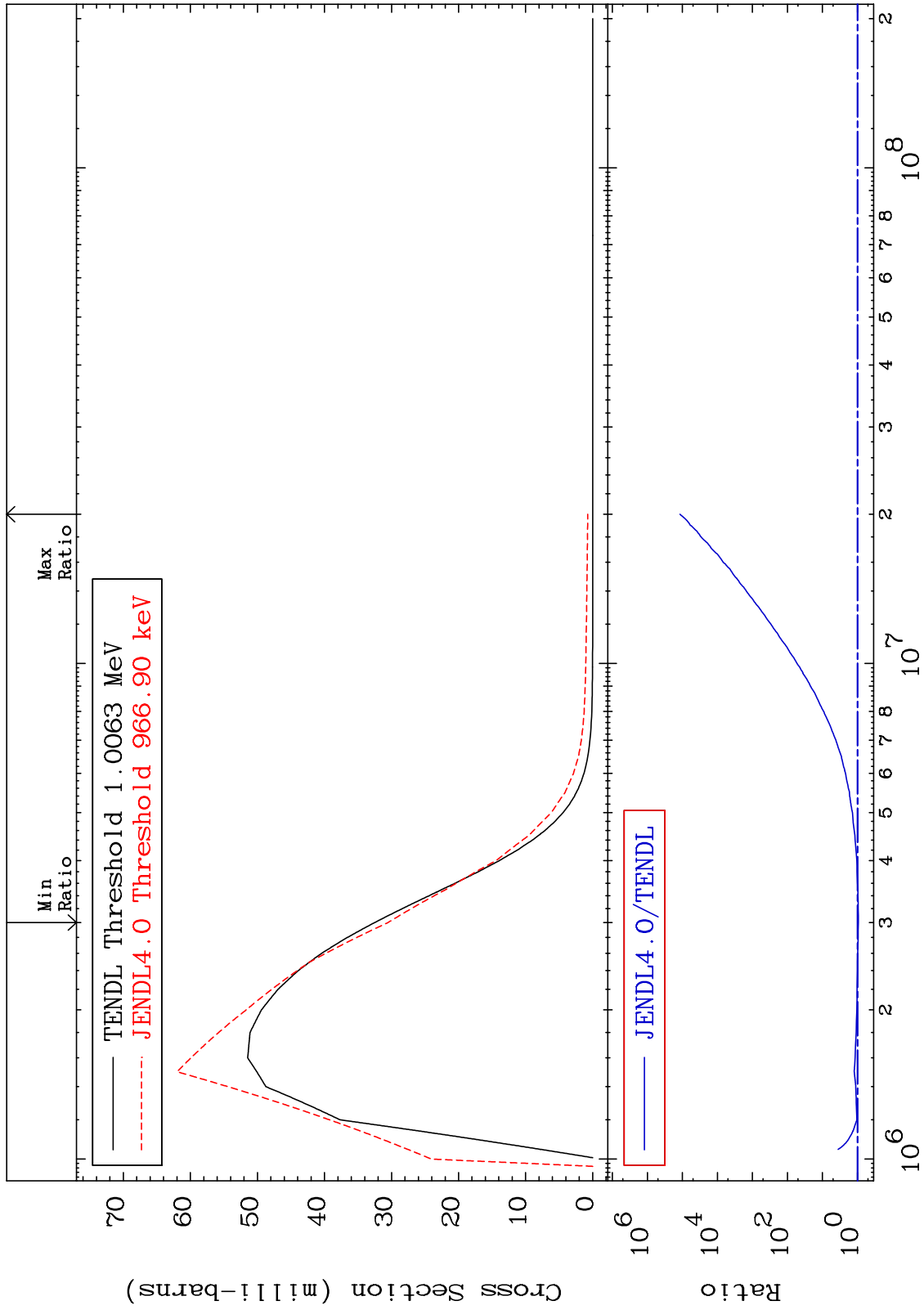
35-Br-79

35-Br-79

MAT 3525

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

35-Br-79  
-6.135 To 9999. %



23

Incident Energy (eV)

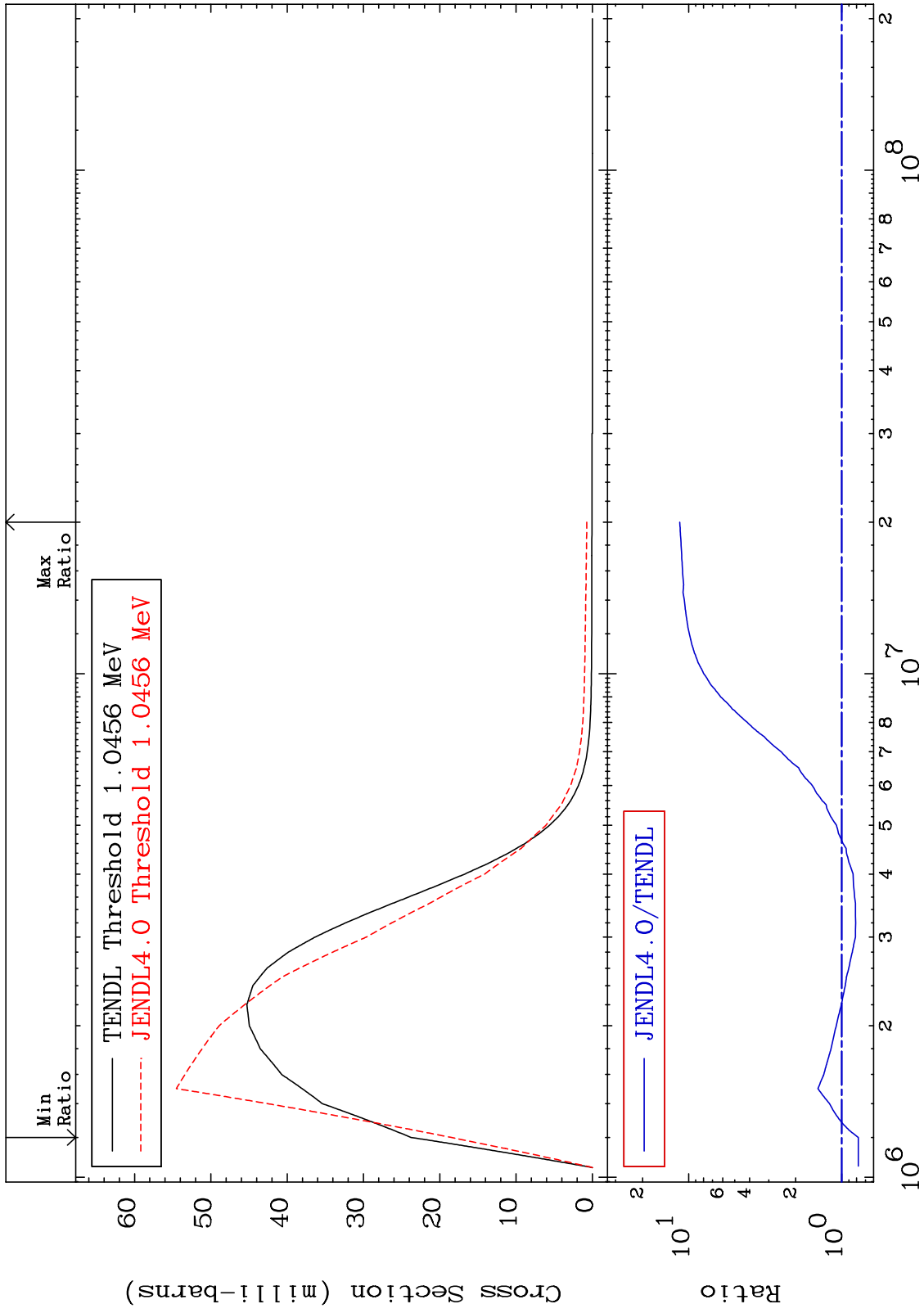
35-Br-79



MAT 3525

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

35-Br-79  
-22.02 To 1043. %



24

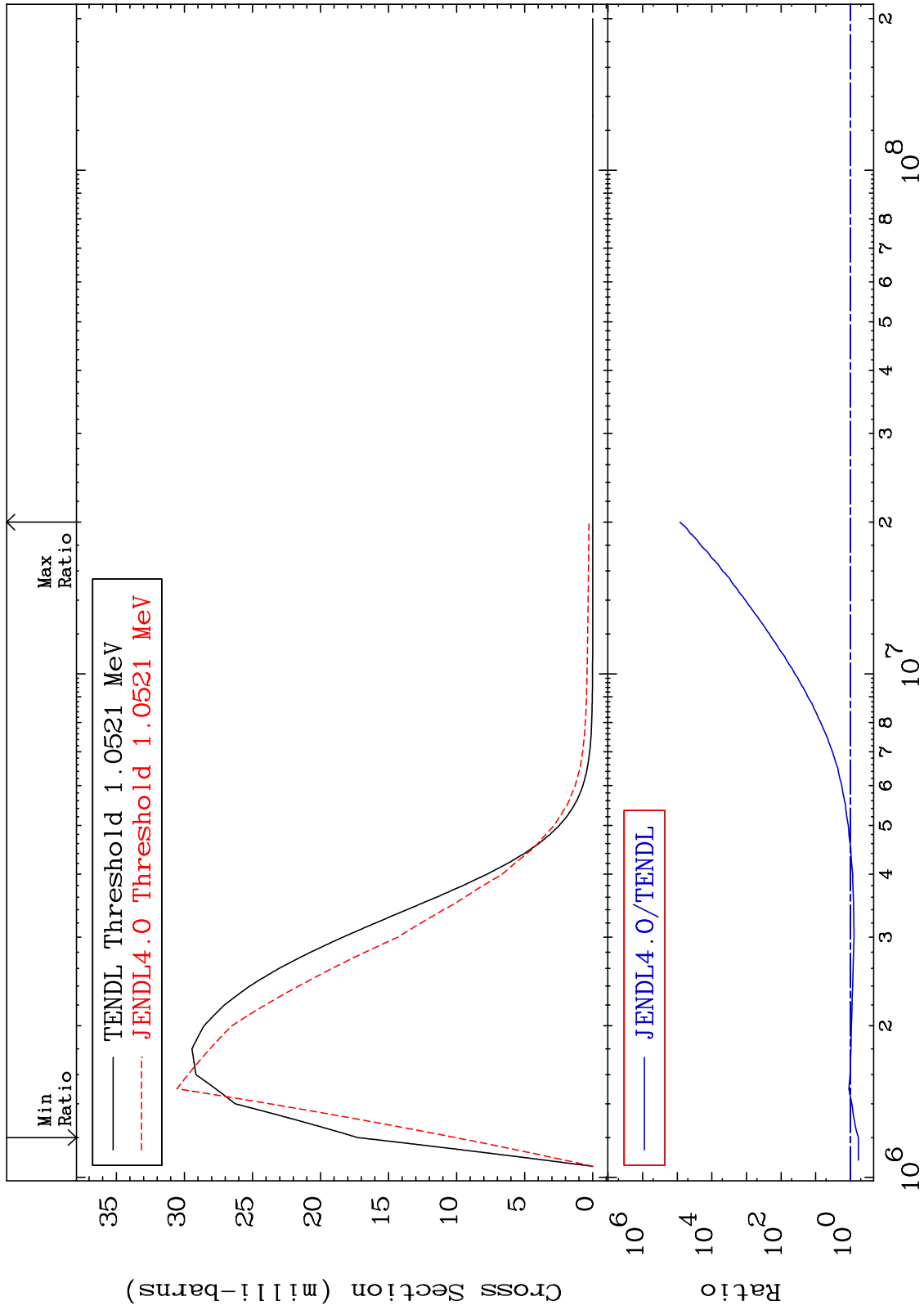
Incident Energy (eV)

35-Br-79

MAT 3525

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

35-Br-79  
-41.59 To 9999. %



25

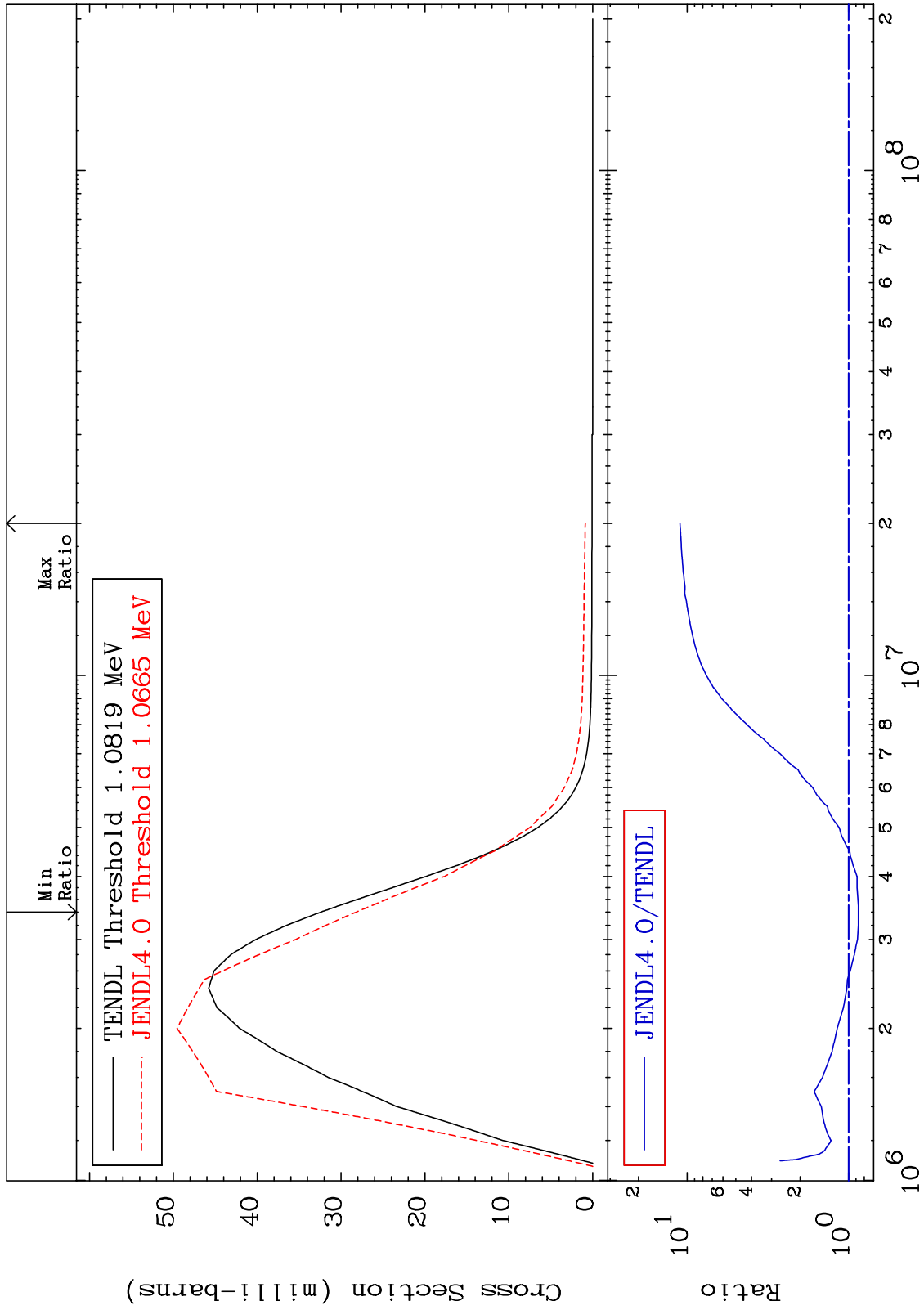
Incident Energy (eV)

35-Br-79

MAT 3525

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

35-Br-79  
-13.01 To 1007. %



26

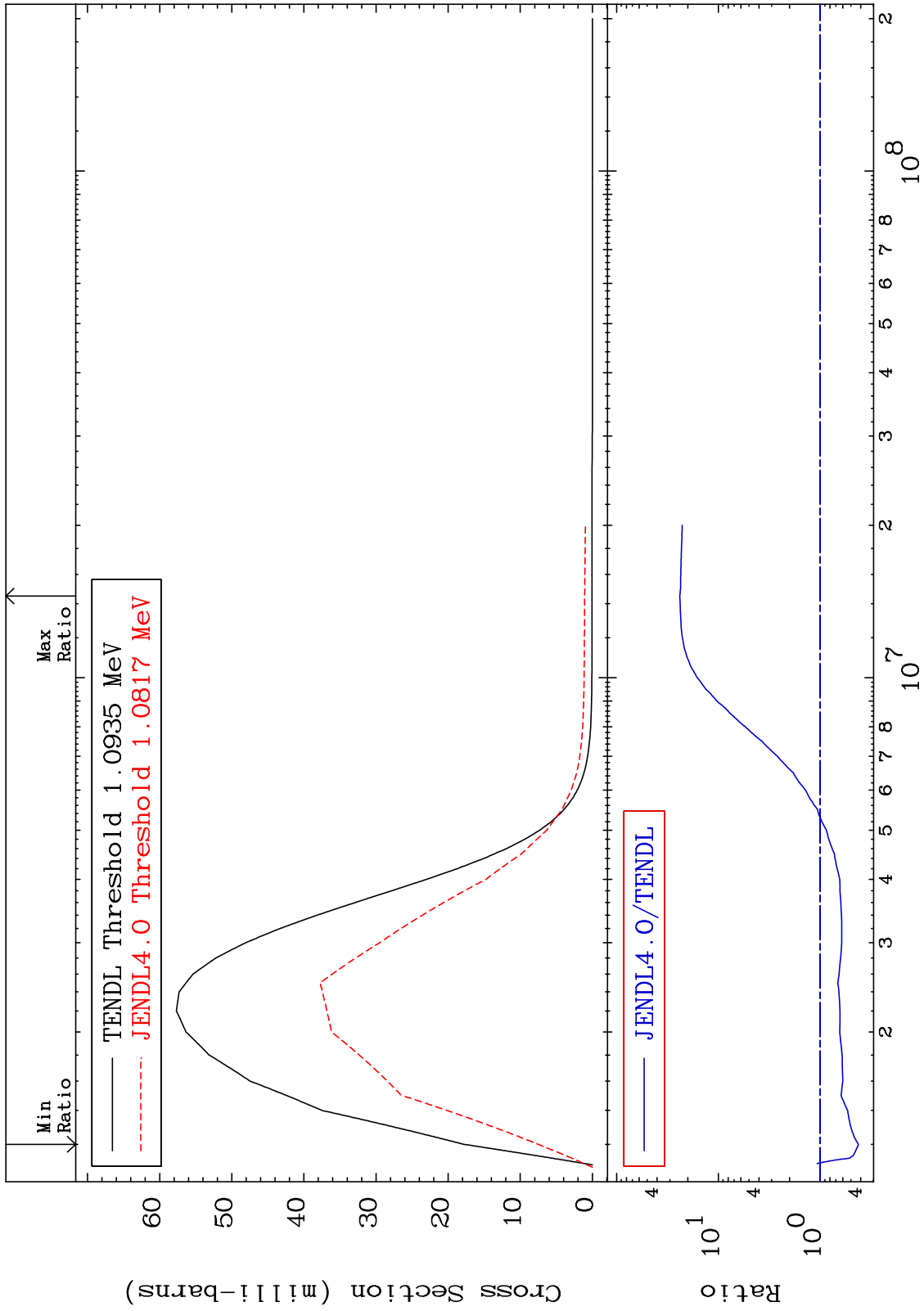
Incident Energy (eV)

35-Br-79

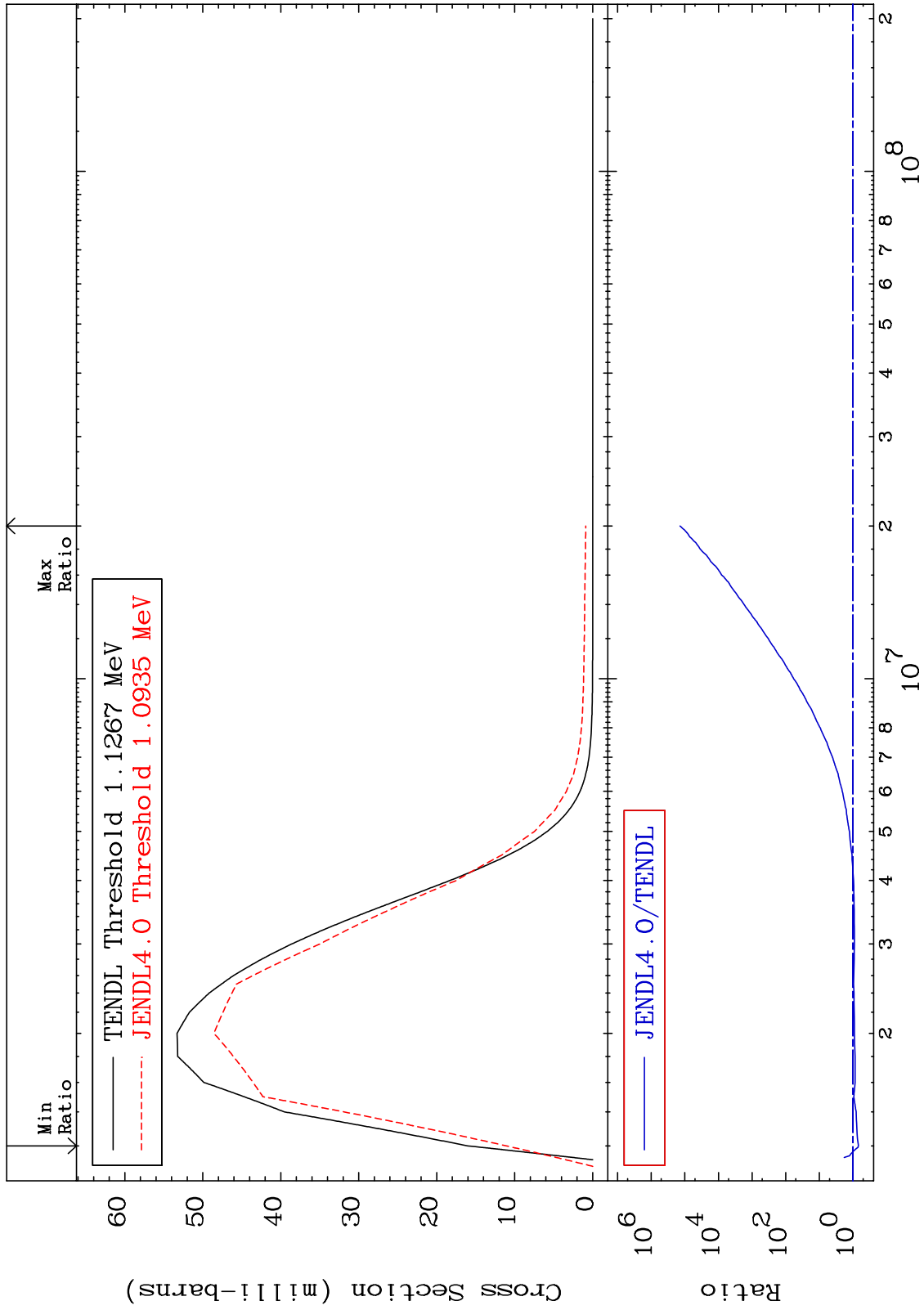
MAT 3525

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

35-Br-79  
-57.87 To 2293. %



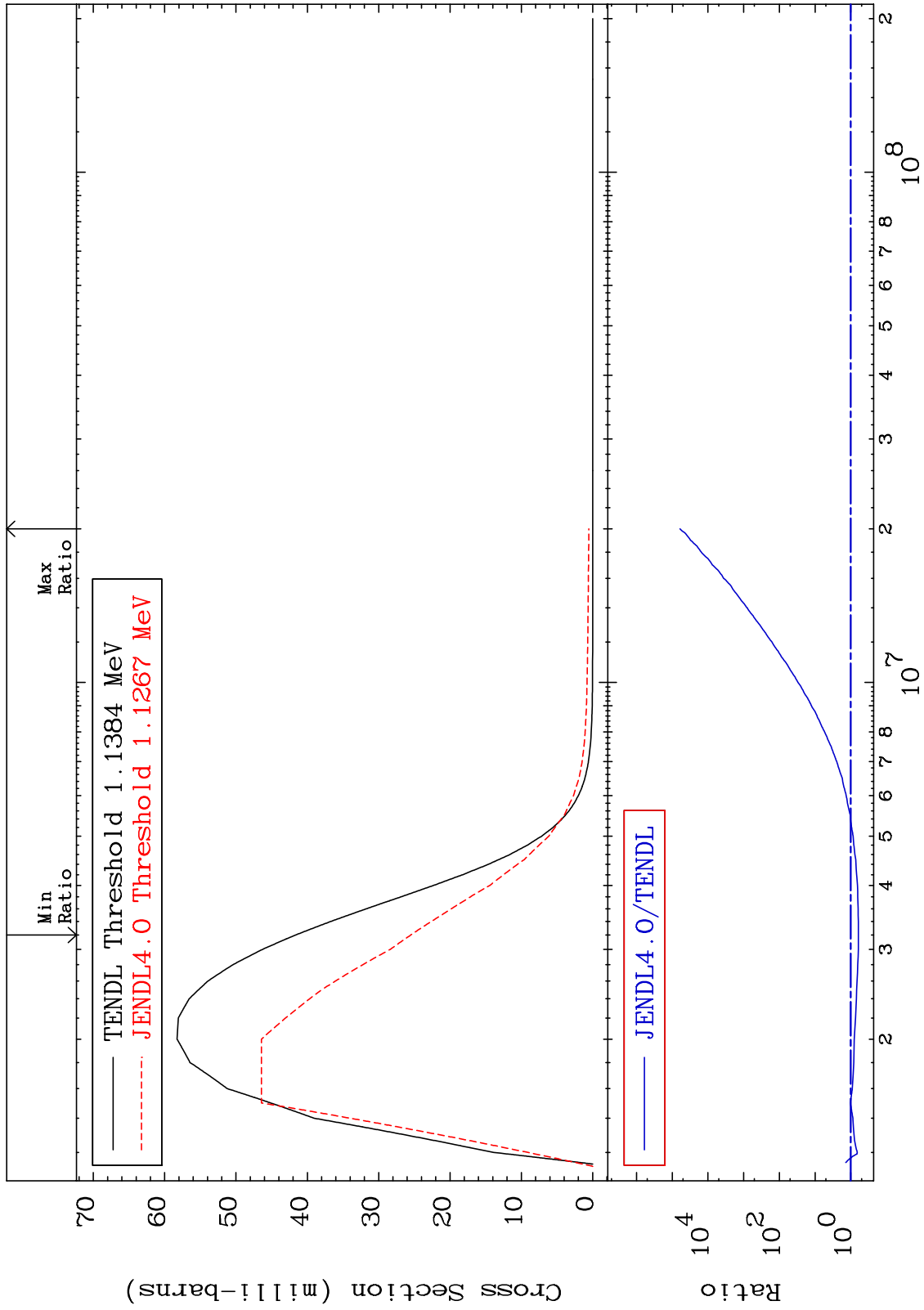
MAT 3525 MT= 71 (n,n') Level Cross Section 35-Br-79  
 -30.86 To 9999. %



MAT 3525

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

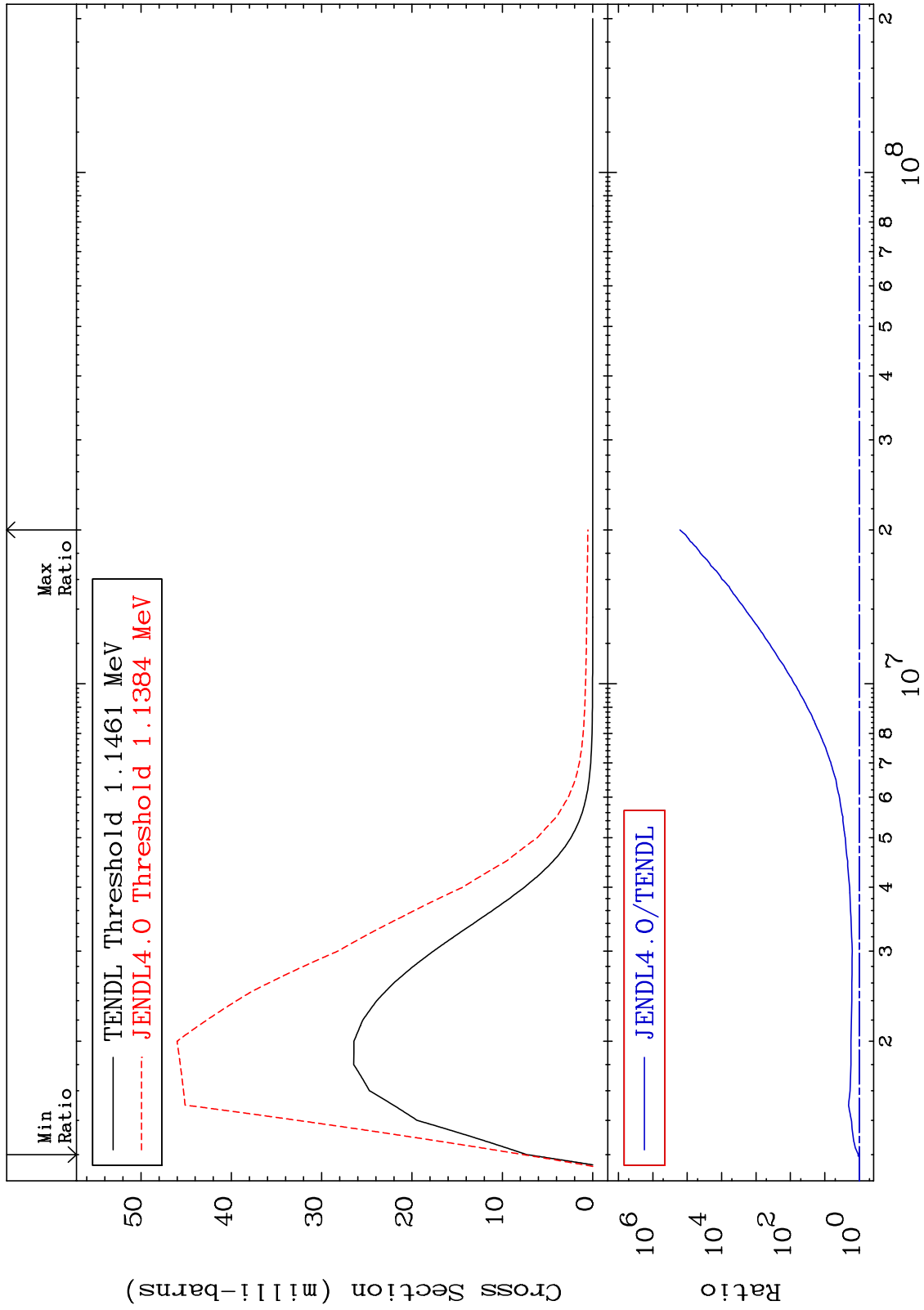
35-Br-79  
-38.76 To 9999. %



MAT 3525

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

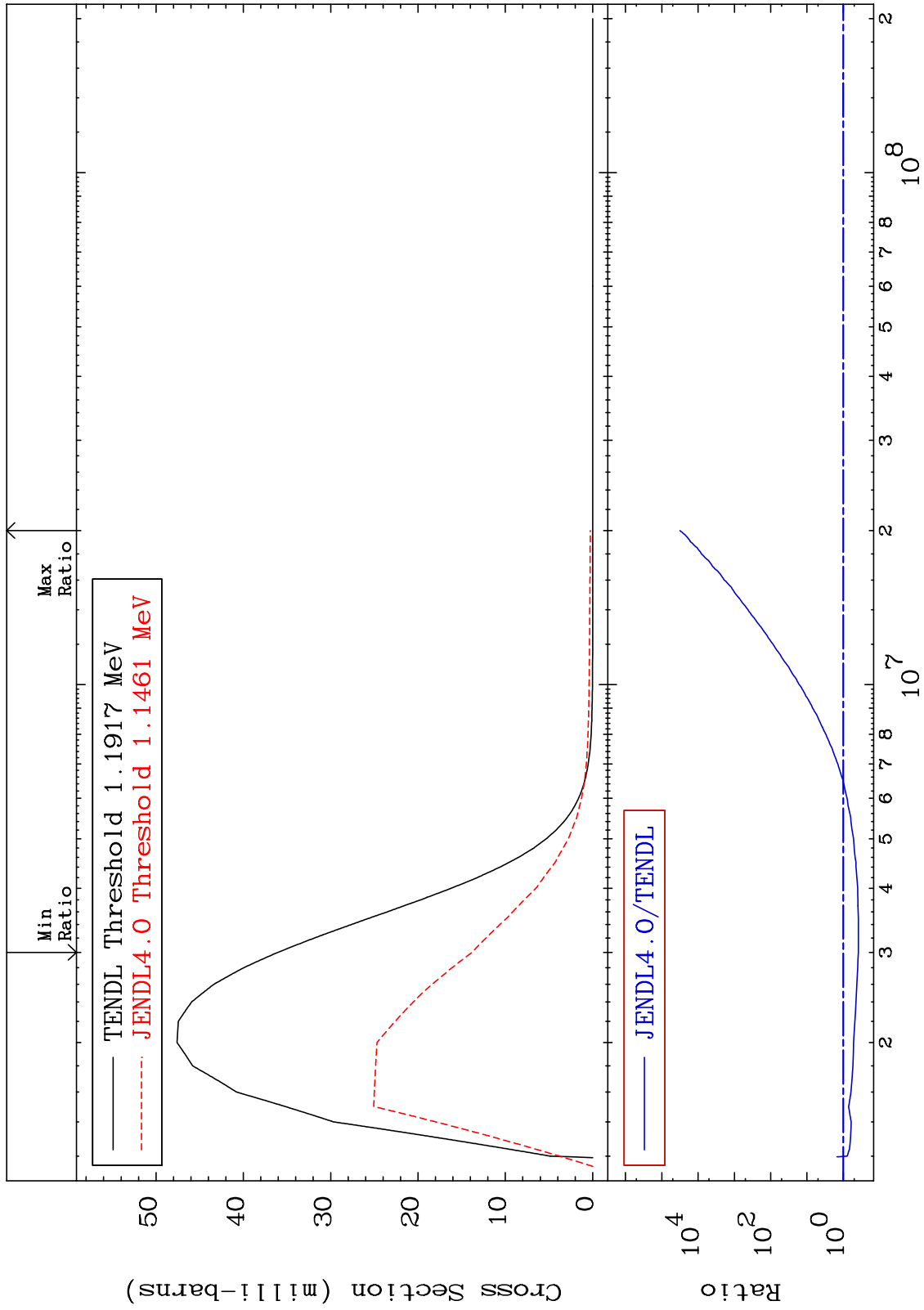
35-Br-79  
5.333 To 9999. %



MAT 3525

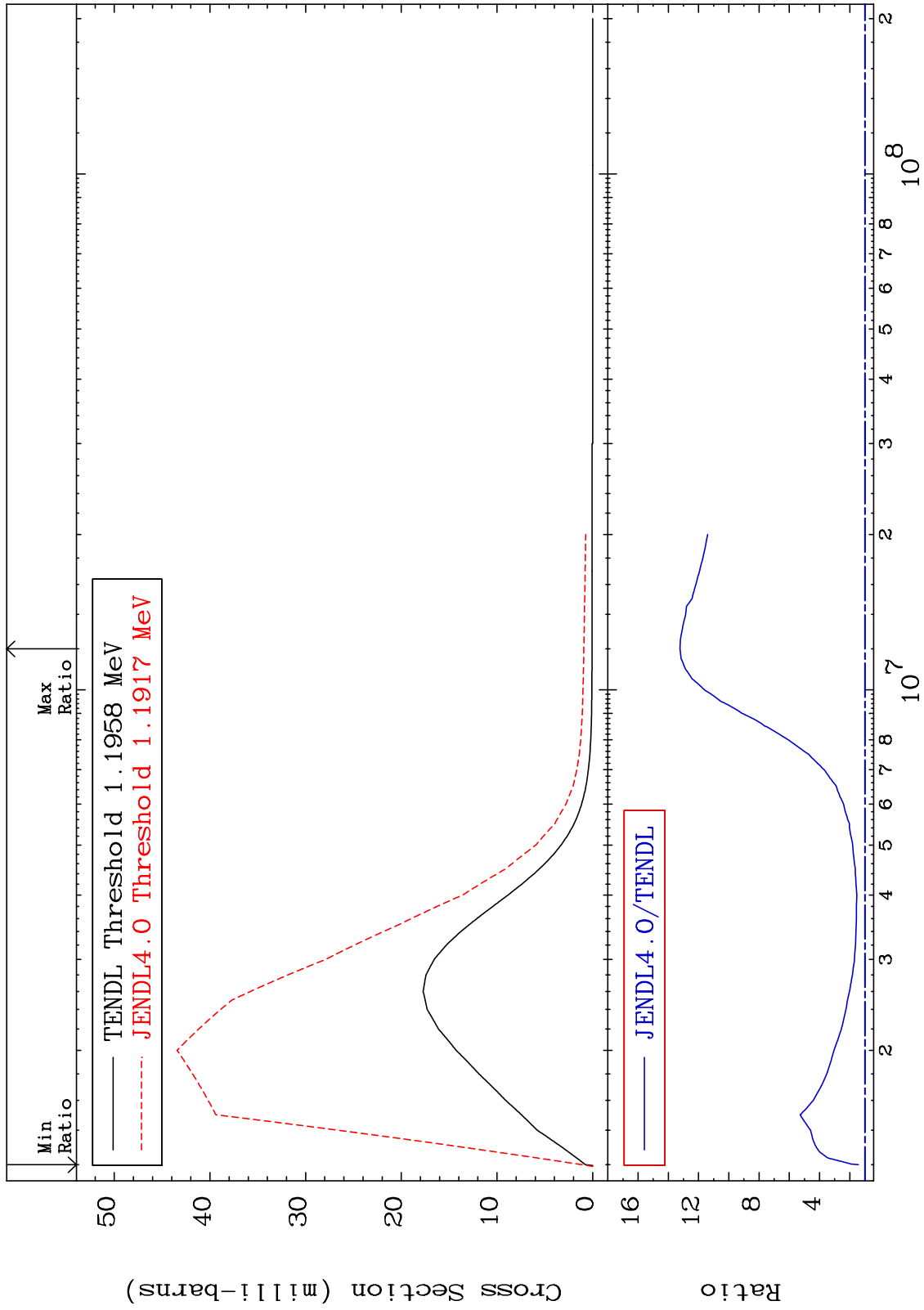
MT= 74 (n,n') Level  
Cross Section

35-Br-79  
-61.66 To 9999. %

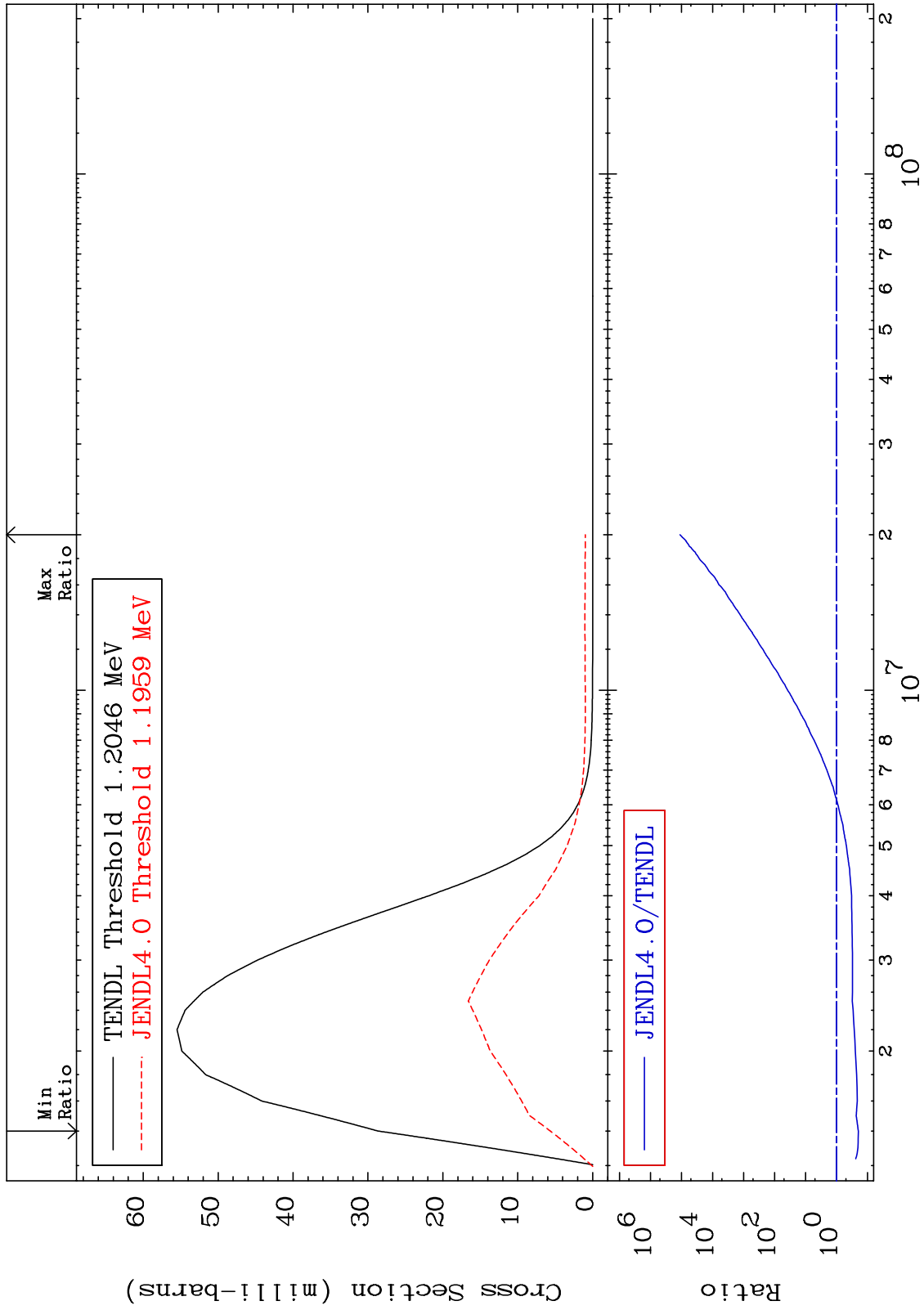




MAT 3525 MT= 75 (n,n') Level Cross Section 35-Br-79 42.97 To 1223. %



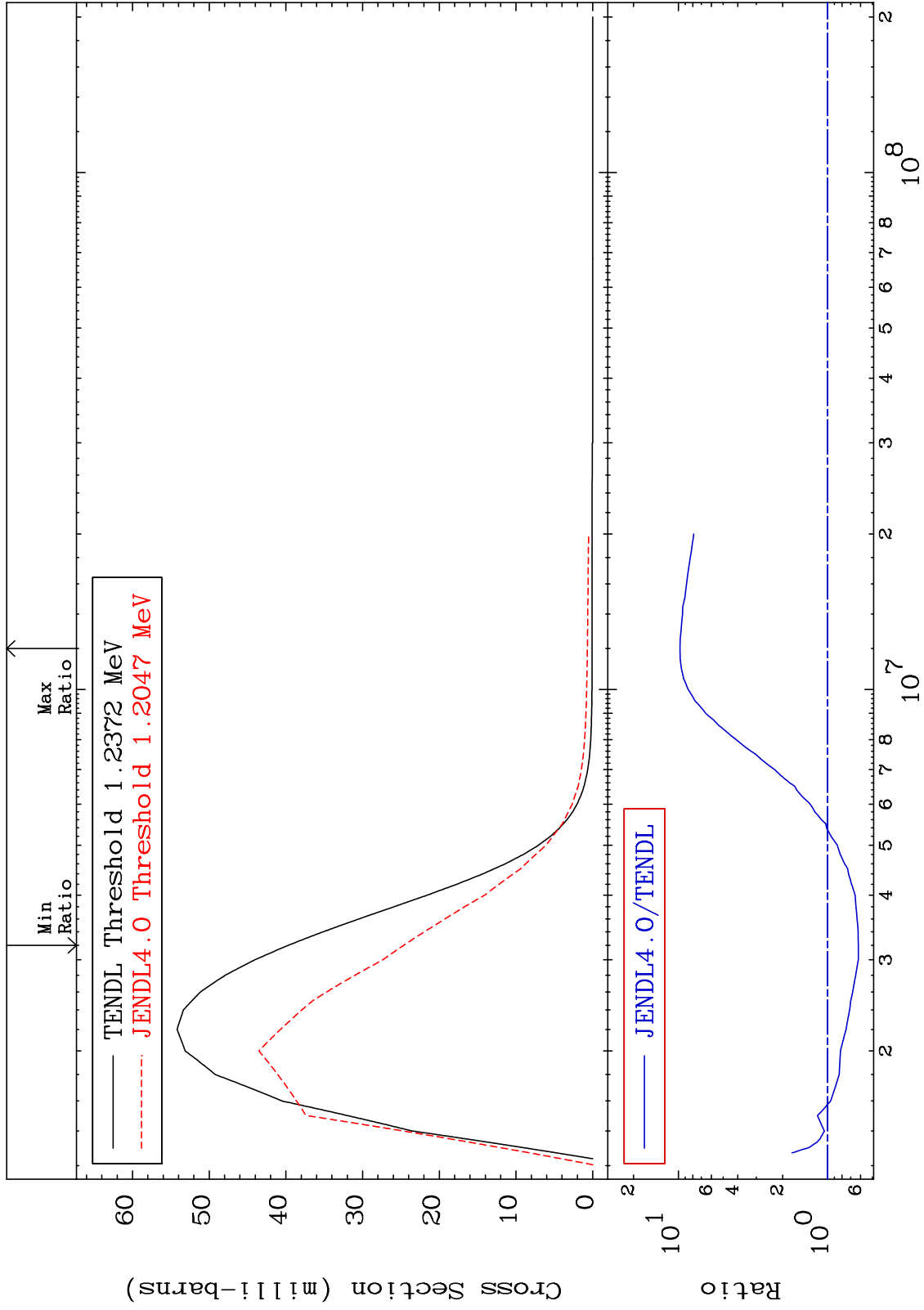
MAT 3525 MT= 76 (n,n') Level Cross Section -80.25 To 9999. % 35-Br-79



MAT 3525

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

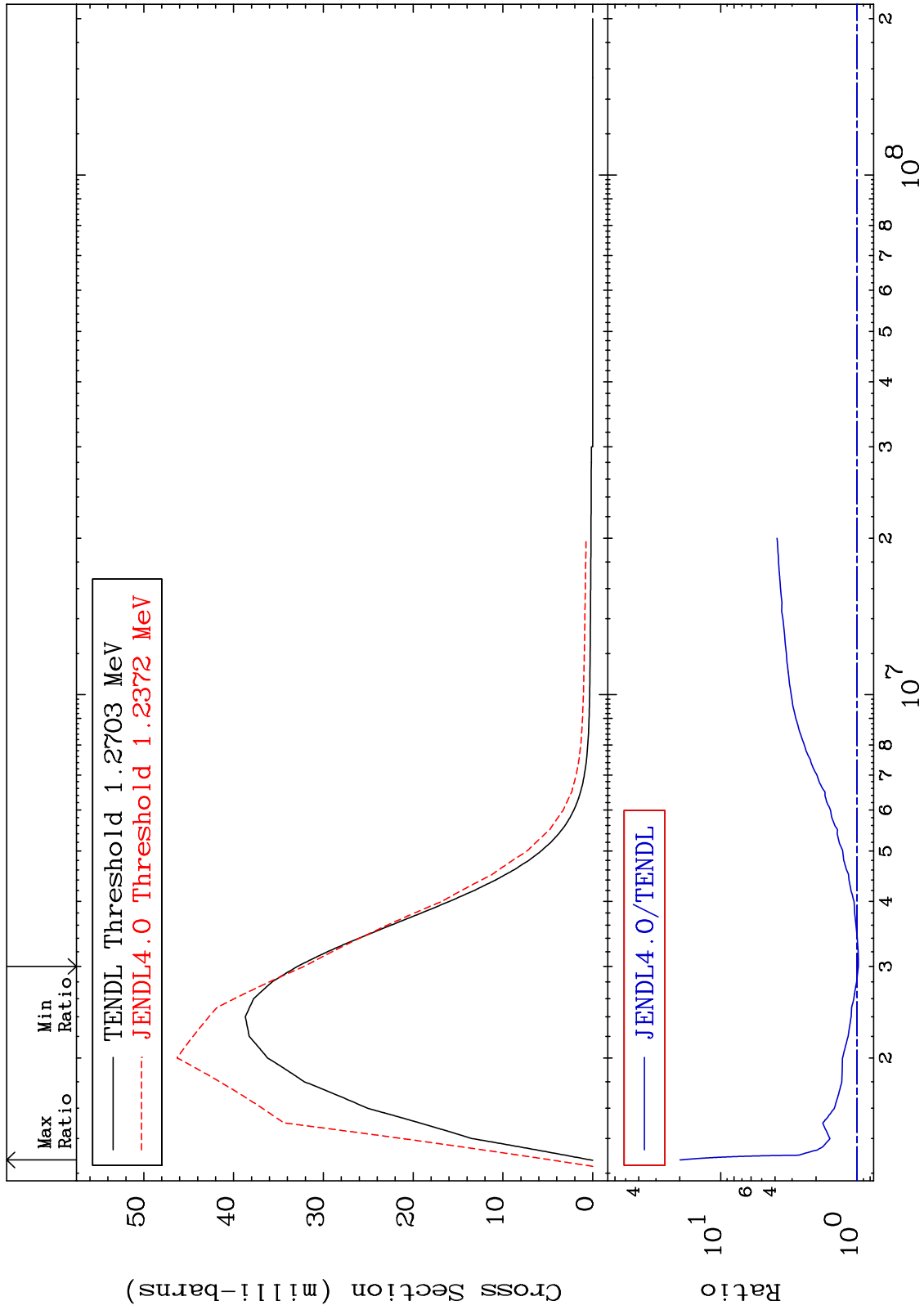
35-Br-79  
-37.92 To 874.2 %



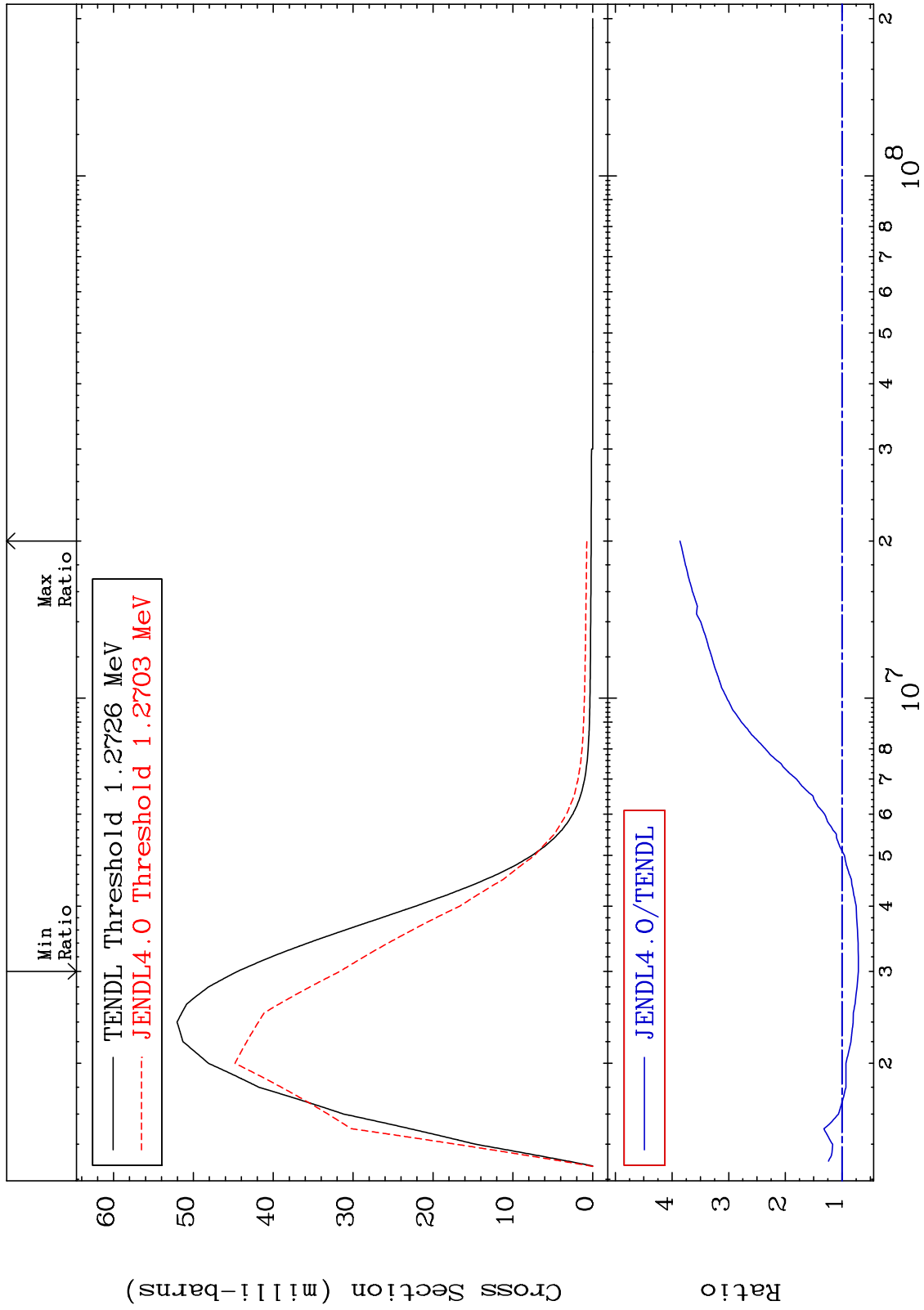
MAT 3525

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

35-Br-79  
-2.289 To 1894. %



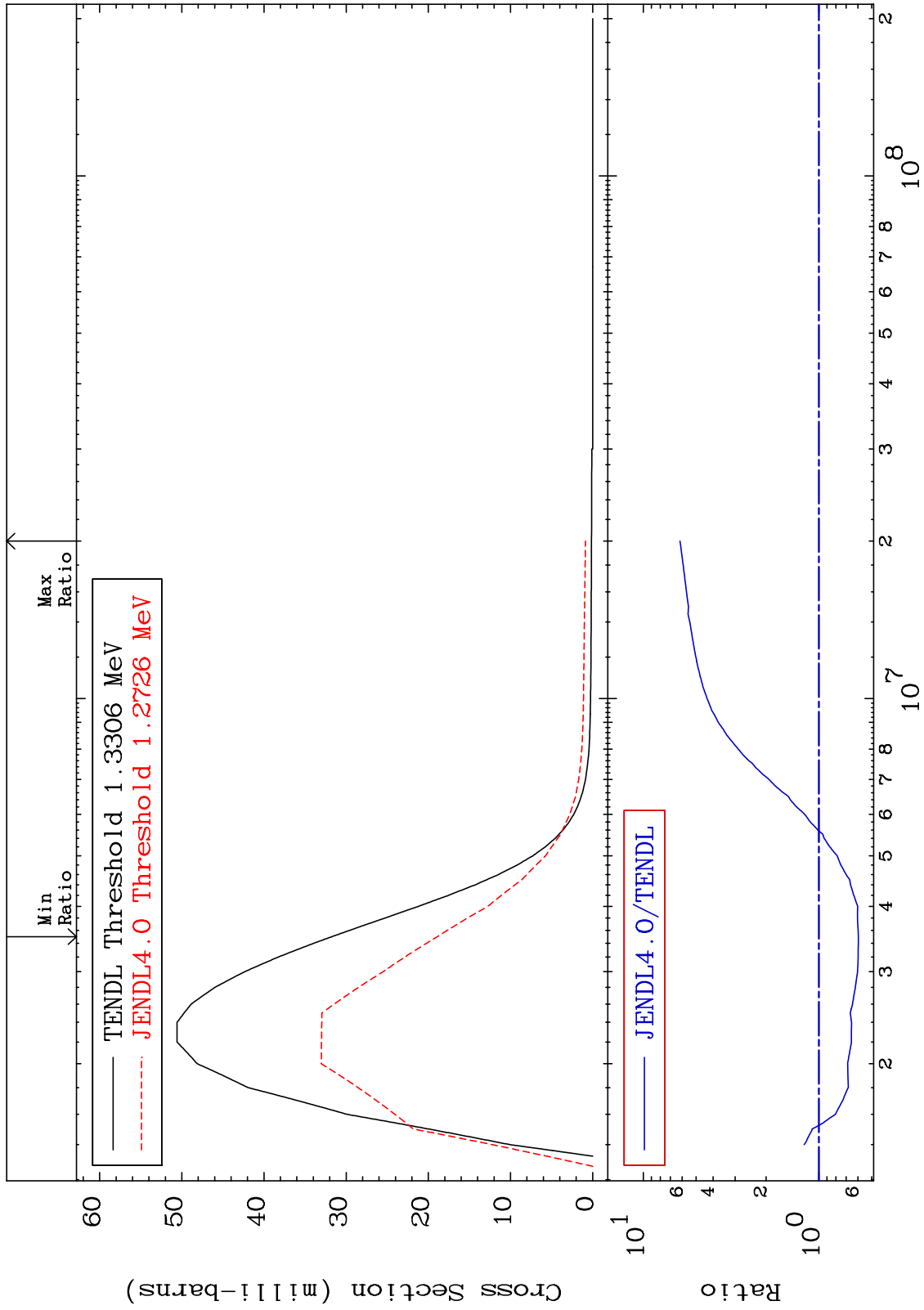
MAT 3525 MT= 79 (n,n') Level Cross Section 35-Br-79  
 -28.85 To 285.9 %



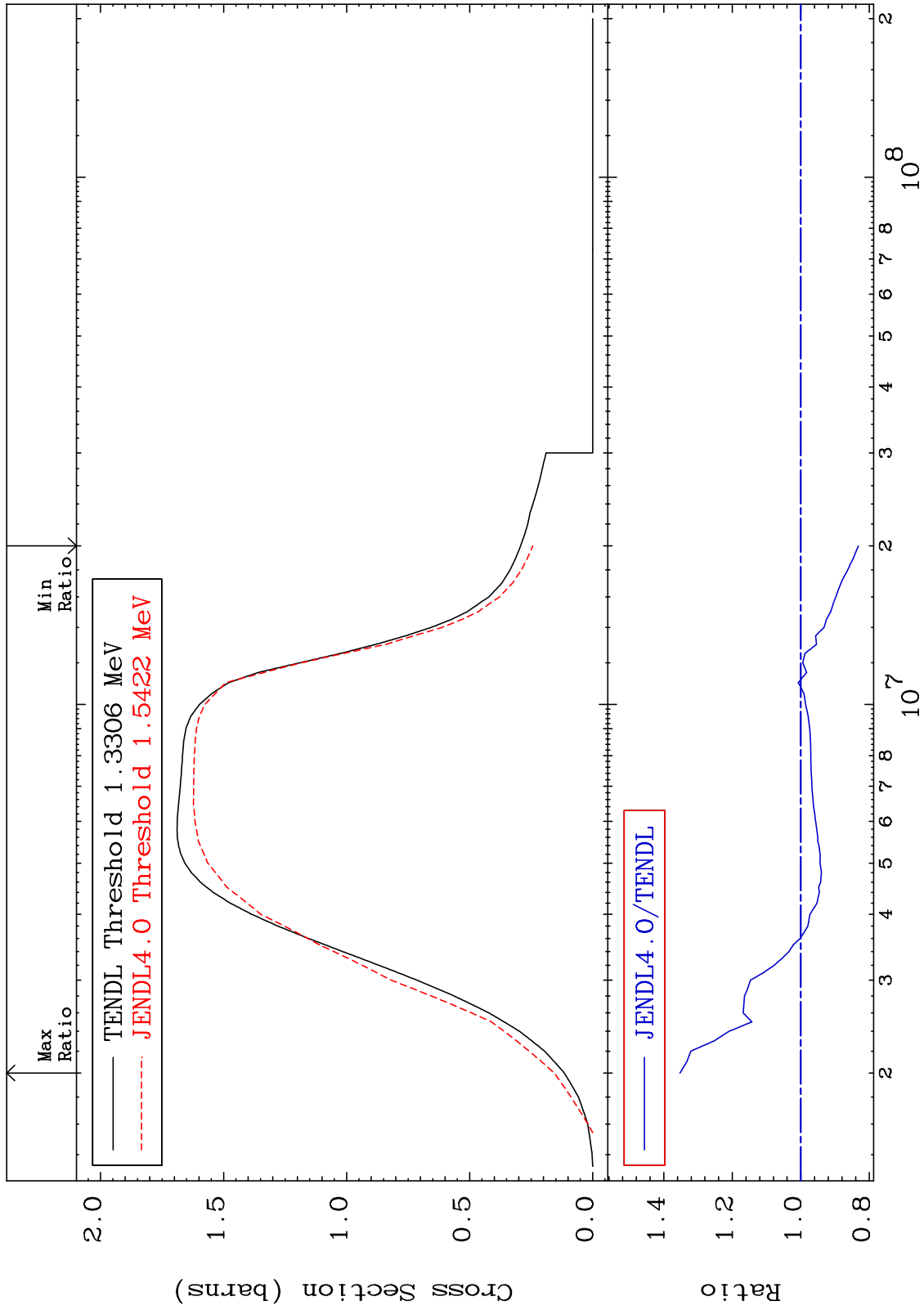
MAT 3525

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

35-Br-79  
-40.44 To 517.4 %



MAT 3525 (n, n') Continuum Cross Section -16.80 To 35.26 % 35-Br-79



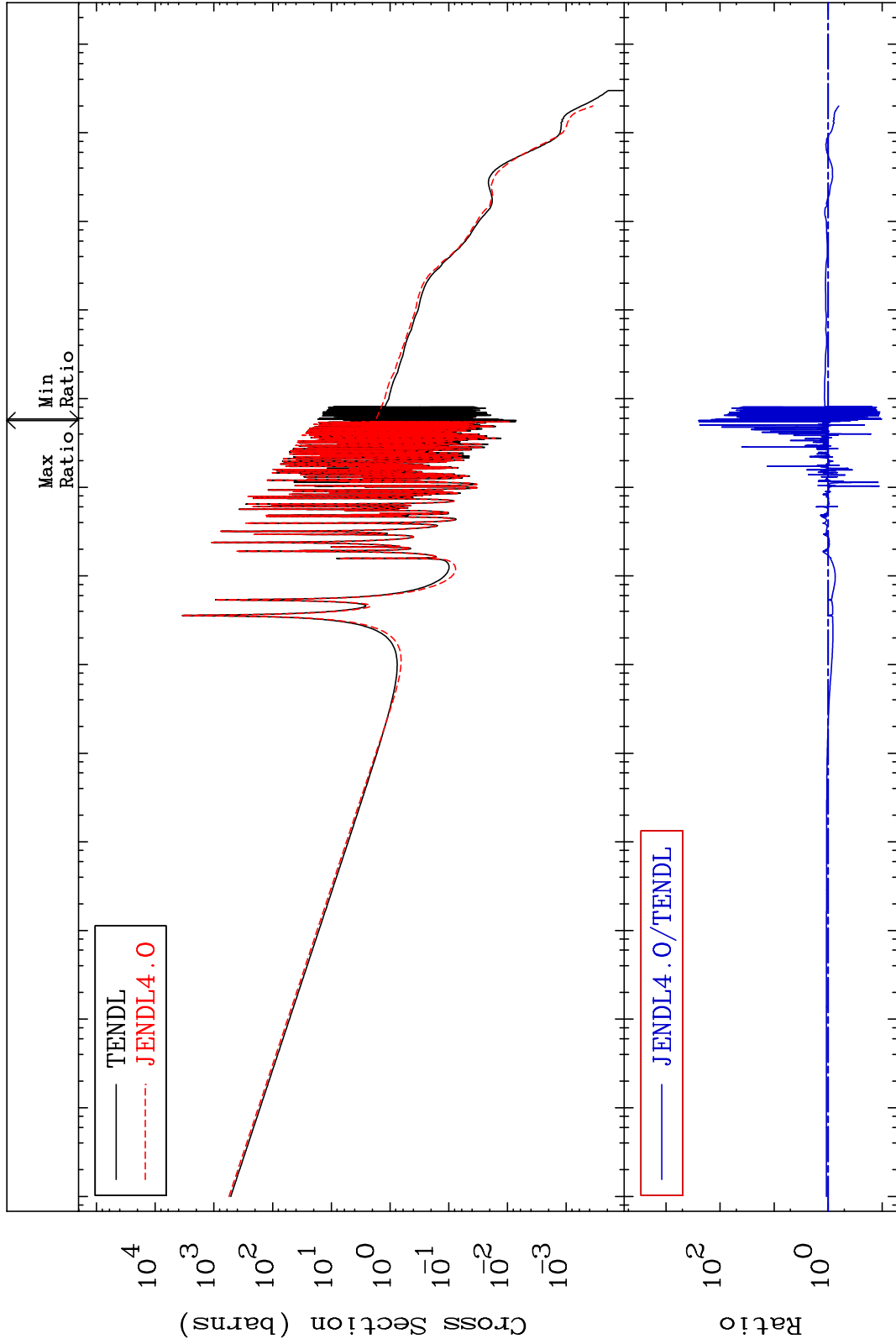
MAT 3525

(n,  $\gamma$ )

35-Br-79

Cross Section

-89.76 To 9999. %



39

Incident Energy (eV)

35-Br-79



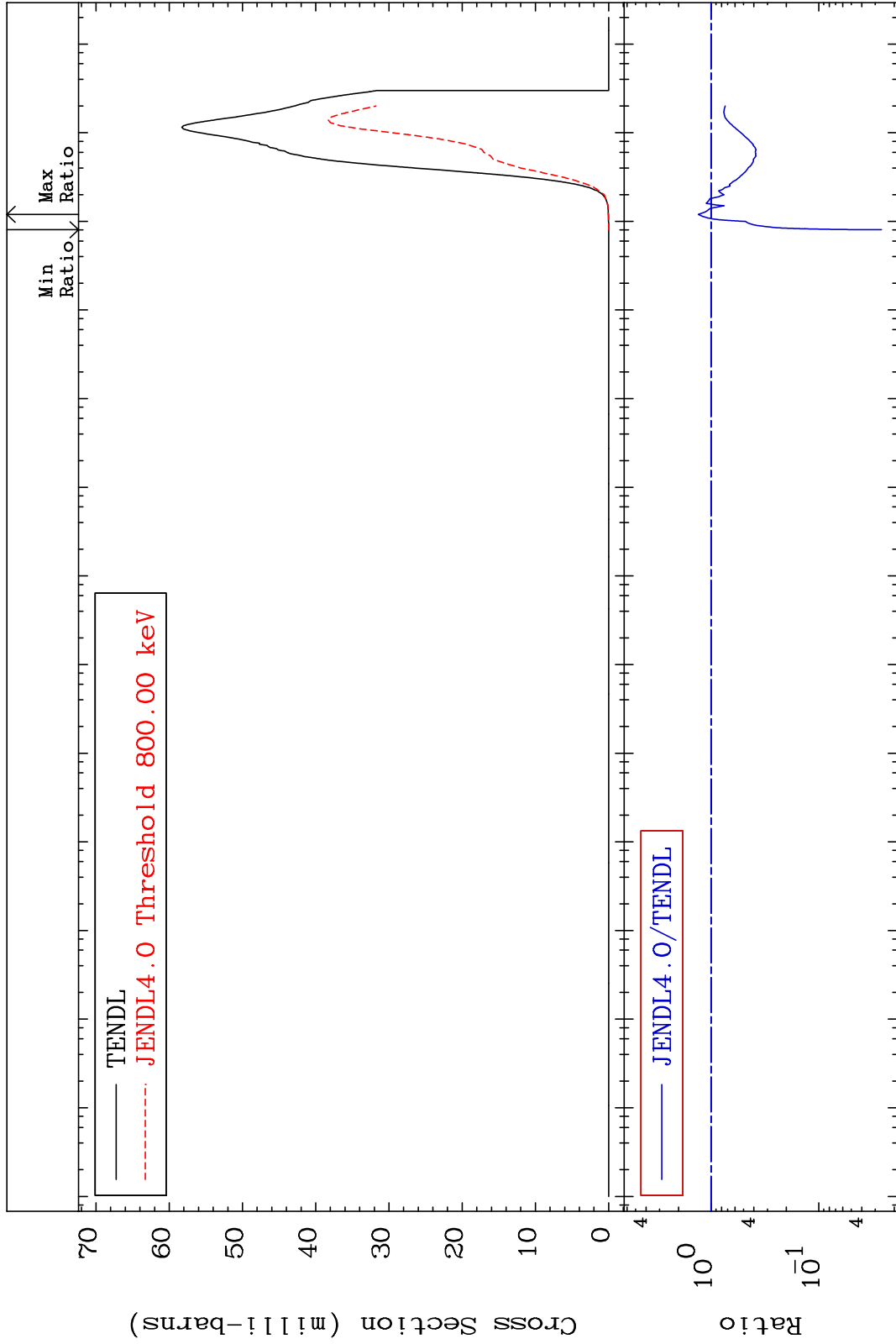
MAT 3525

(n, p)

35-Br-79

Cross Section

-97.38 To 31.06 %



40

Incident Energy (eV)

35-Br-79

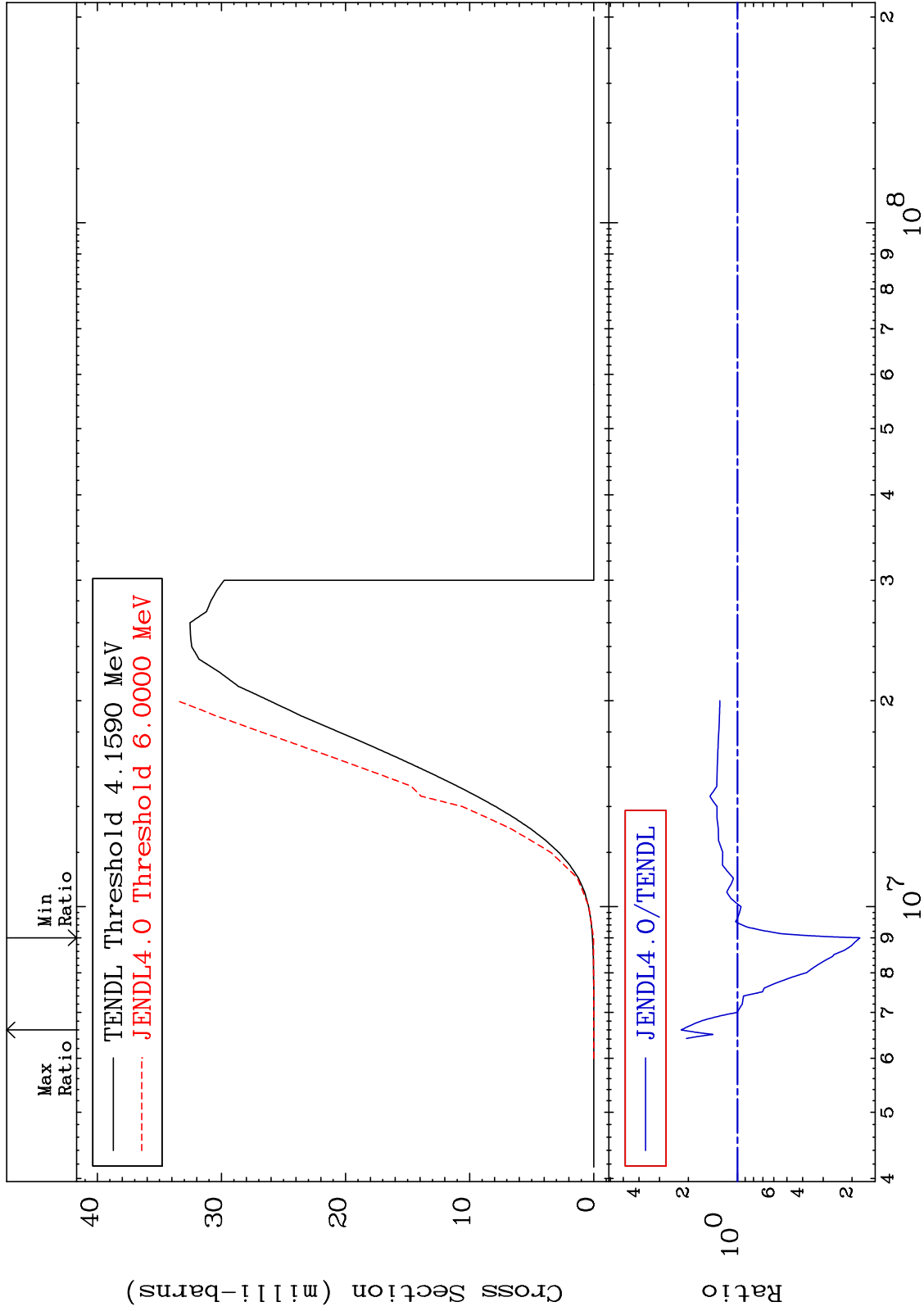
MAT 3525

(n, d)

<sup>35</sup>Br-79

Cross Section

-82.13 To 121.1 %



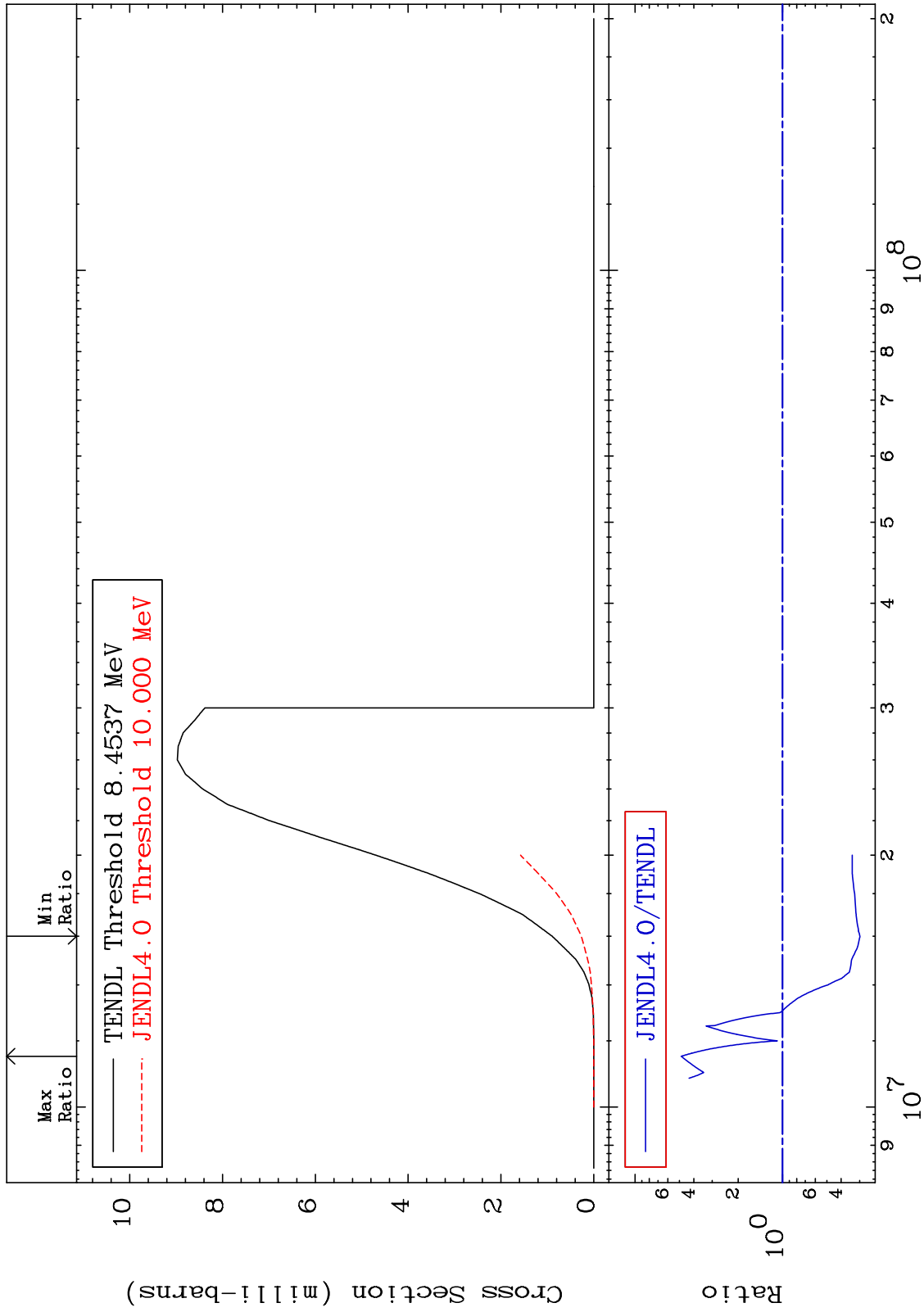
MAT 3525

(n, t)

35-Br-79

Cross Section

-70.16 To 386.3 %



42

Incident Energy (eV)

35-Br-79

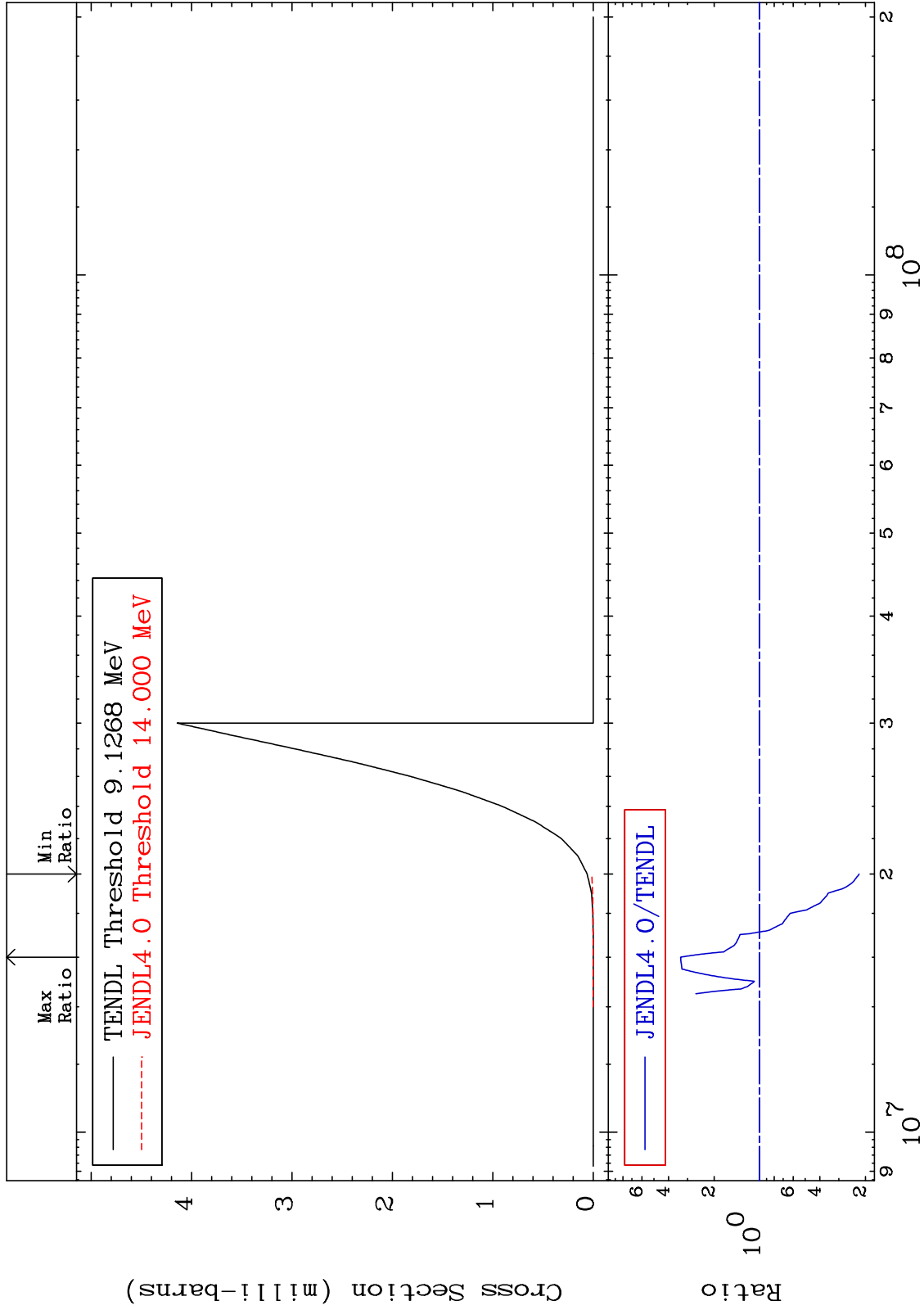
MAT 3525

(n, He-3)

35-Br-79

Cross Section

-78.01 To 232.9 %



43

Incident Energy (eV)

35-Br-79

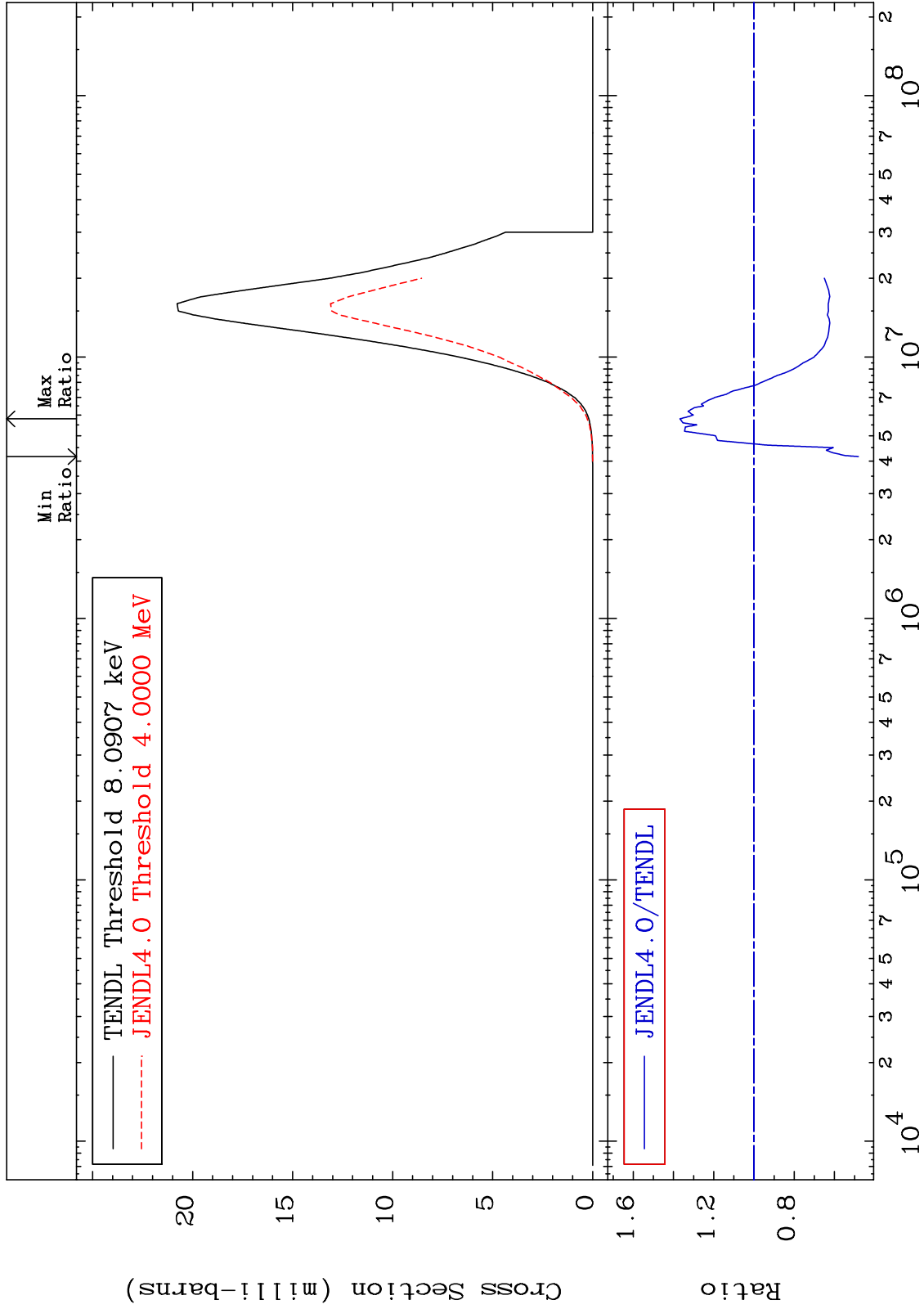
MAT 3525

(n,  $\alpha$ )

35-Br-79

Cross Section

-51.92 To 36.77 %



44

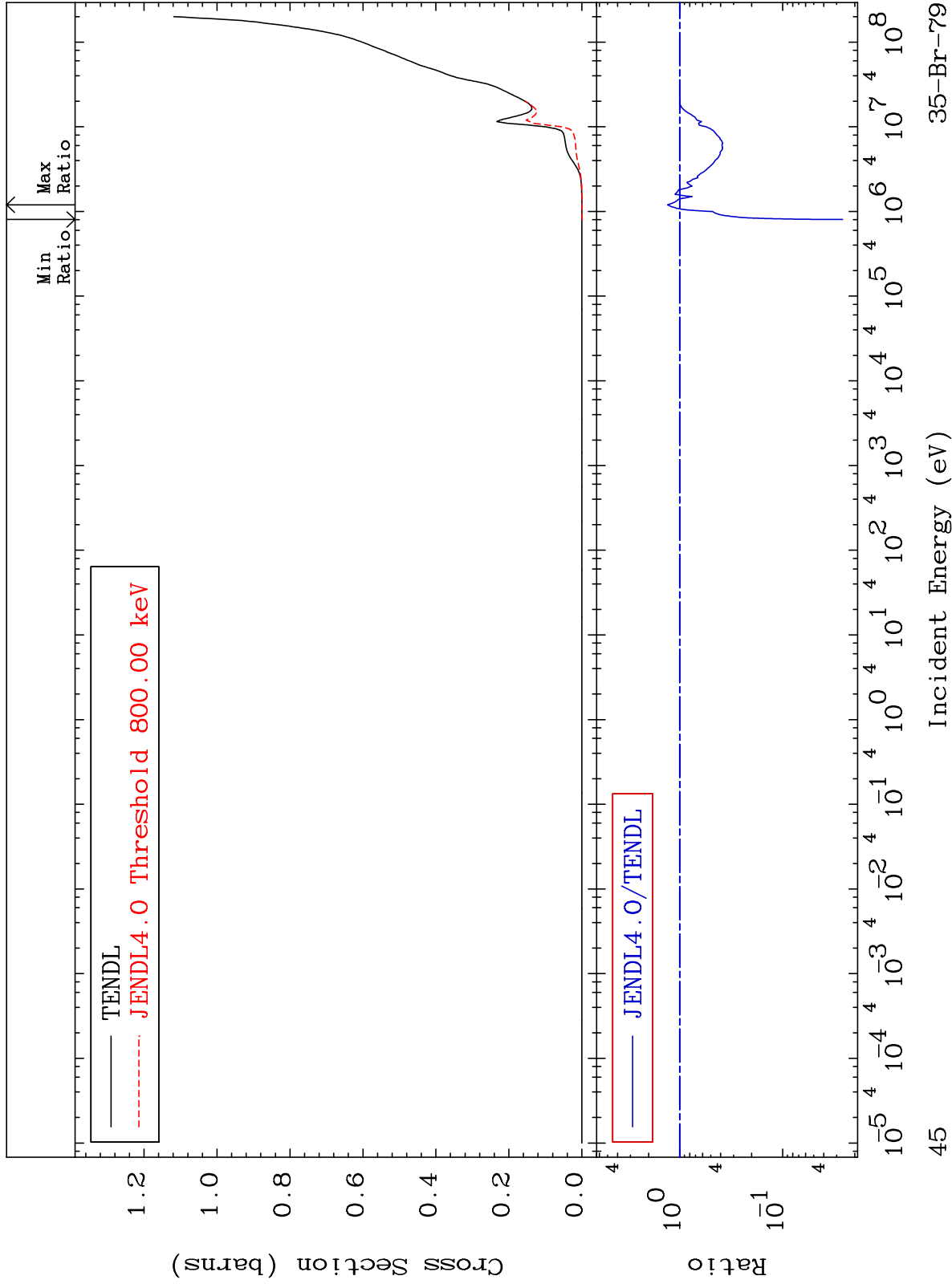
Incident Energy (eV)

35-Br-79

MAT 3525

Hydrogen Production  
Cross Section

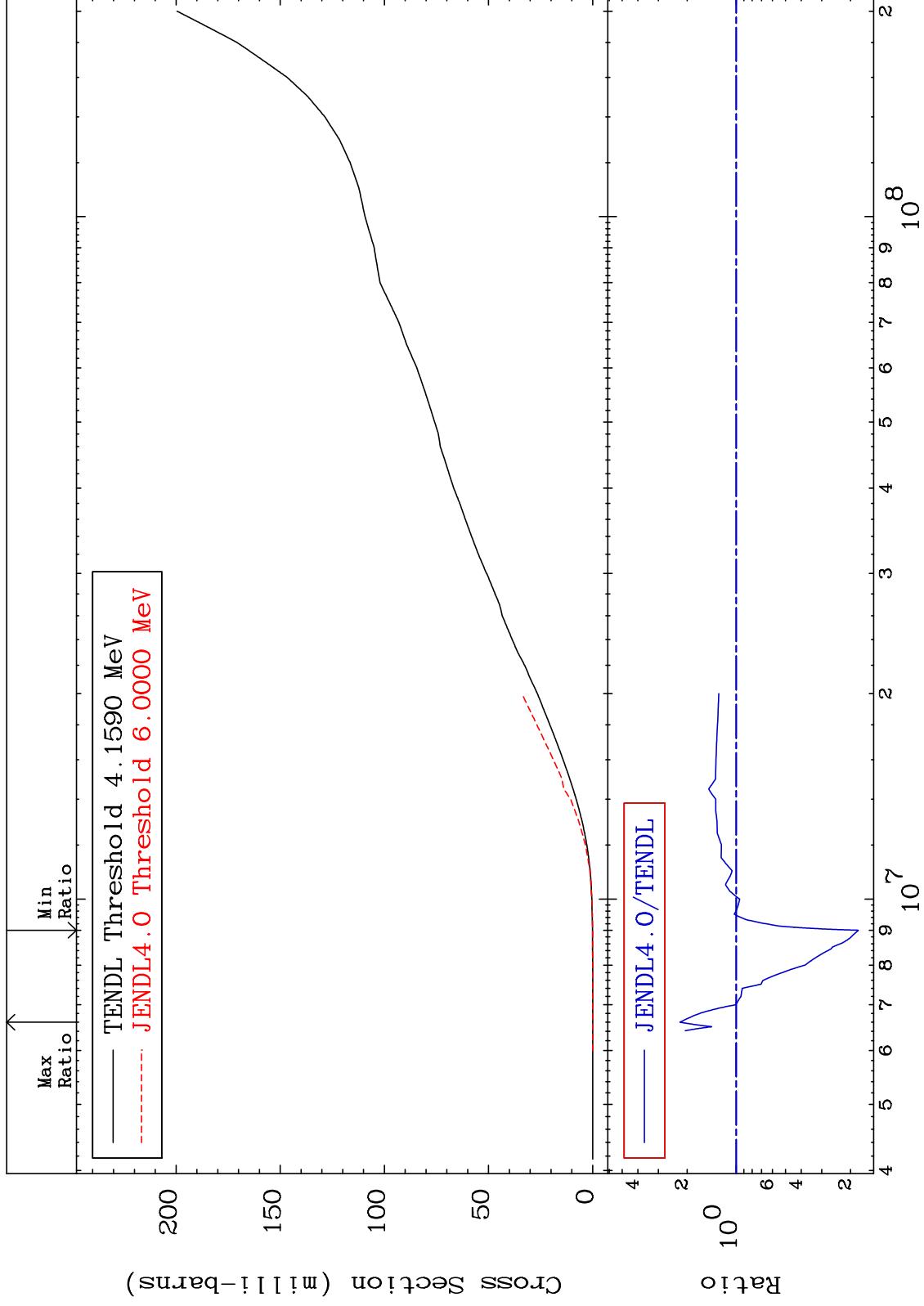
35-Br-79  
-97.38 To 31.06 %



MAT 3525

Deuterium Production  
Cross Section

<sup>35</sup>Br-79  
-82.13 To 121.1 %



46

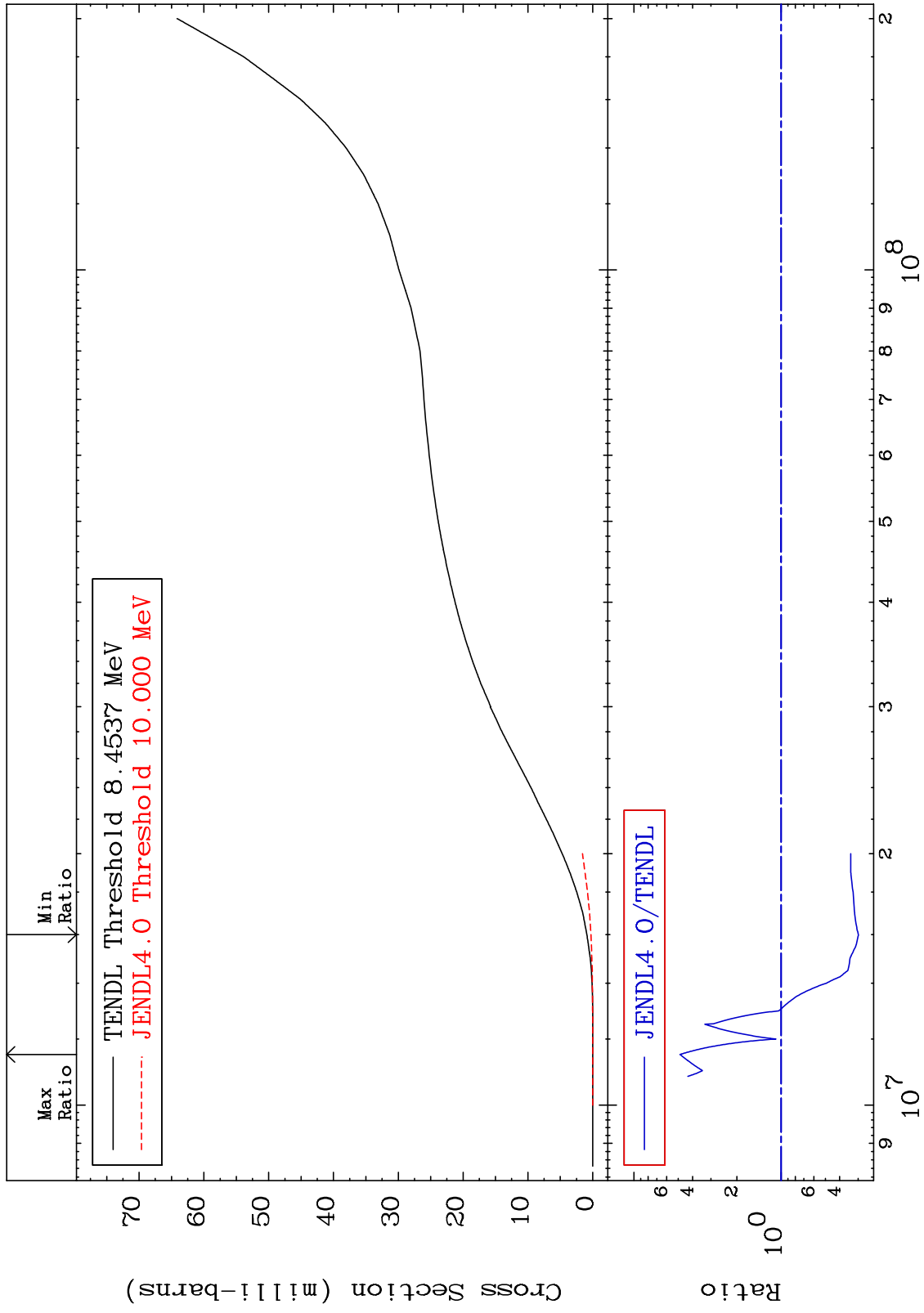
Incident Energy (eV)

<sup>35</sup>Br-79

MAT 3525

Tritium Production  
Cross Section

<sup>35</sup>Br-79  
-70.16 To 386.3 %



47

Incident Energy (eV)

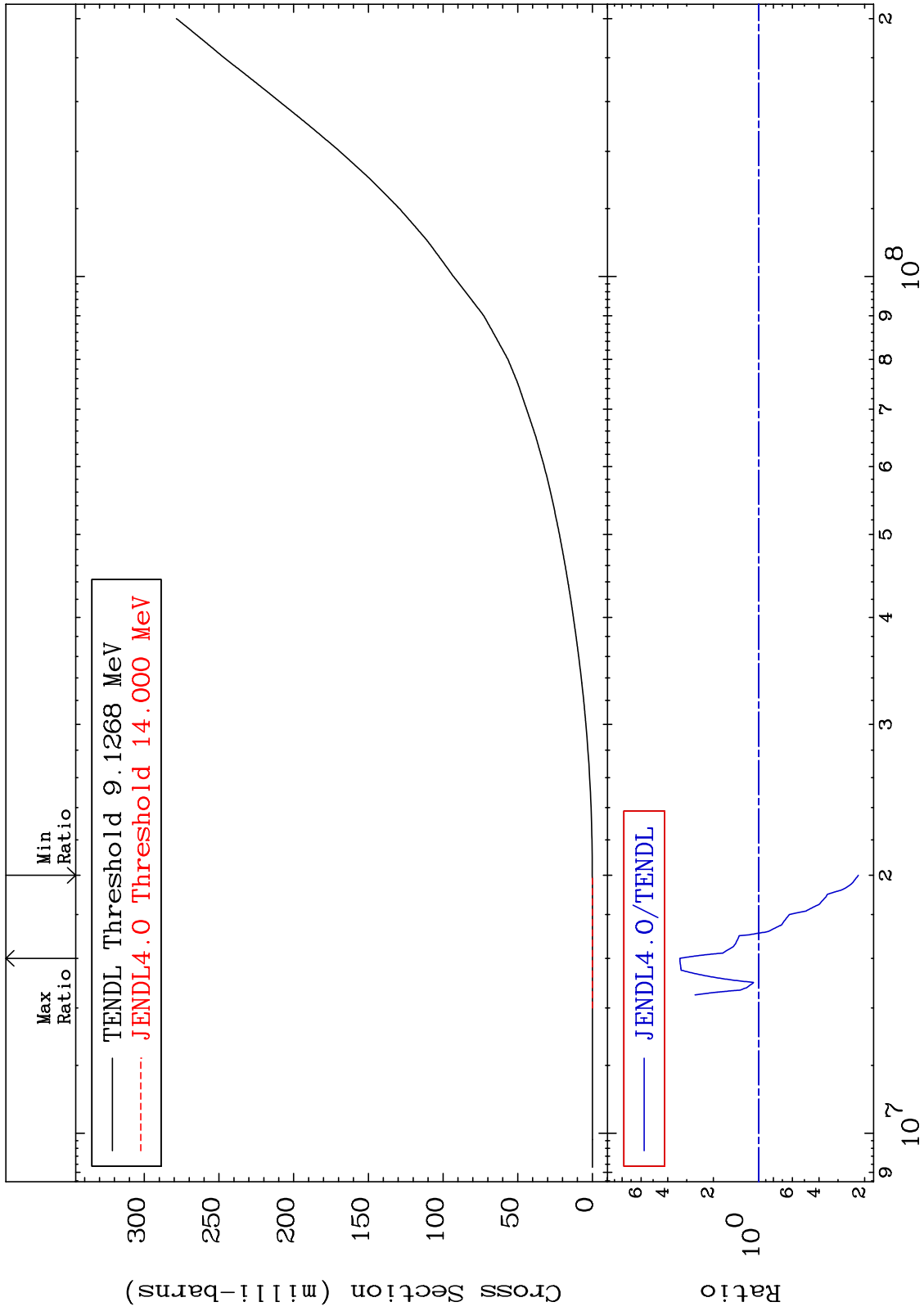
<sup>35</sup>Br-79



MAT 3525

He-3 Production  
Cross Section

35-Br-79  
-78.01 To 232.9 %



48

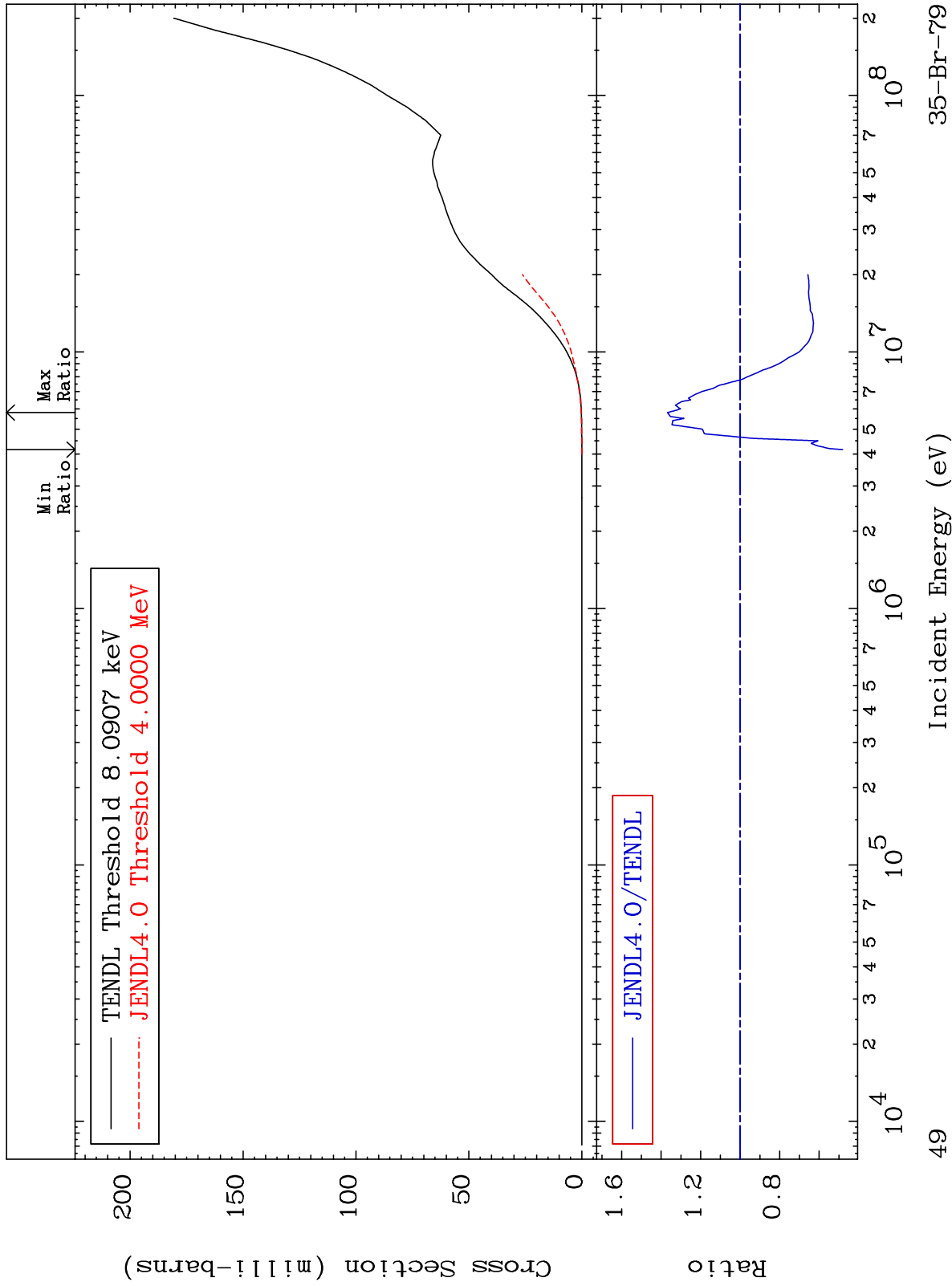
Incident Energy (eV)

35-Br-79

MAT 3525

He-4 Production  
Cross Section

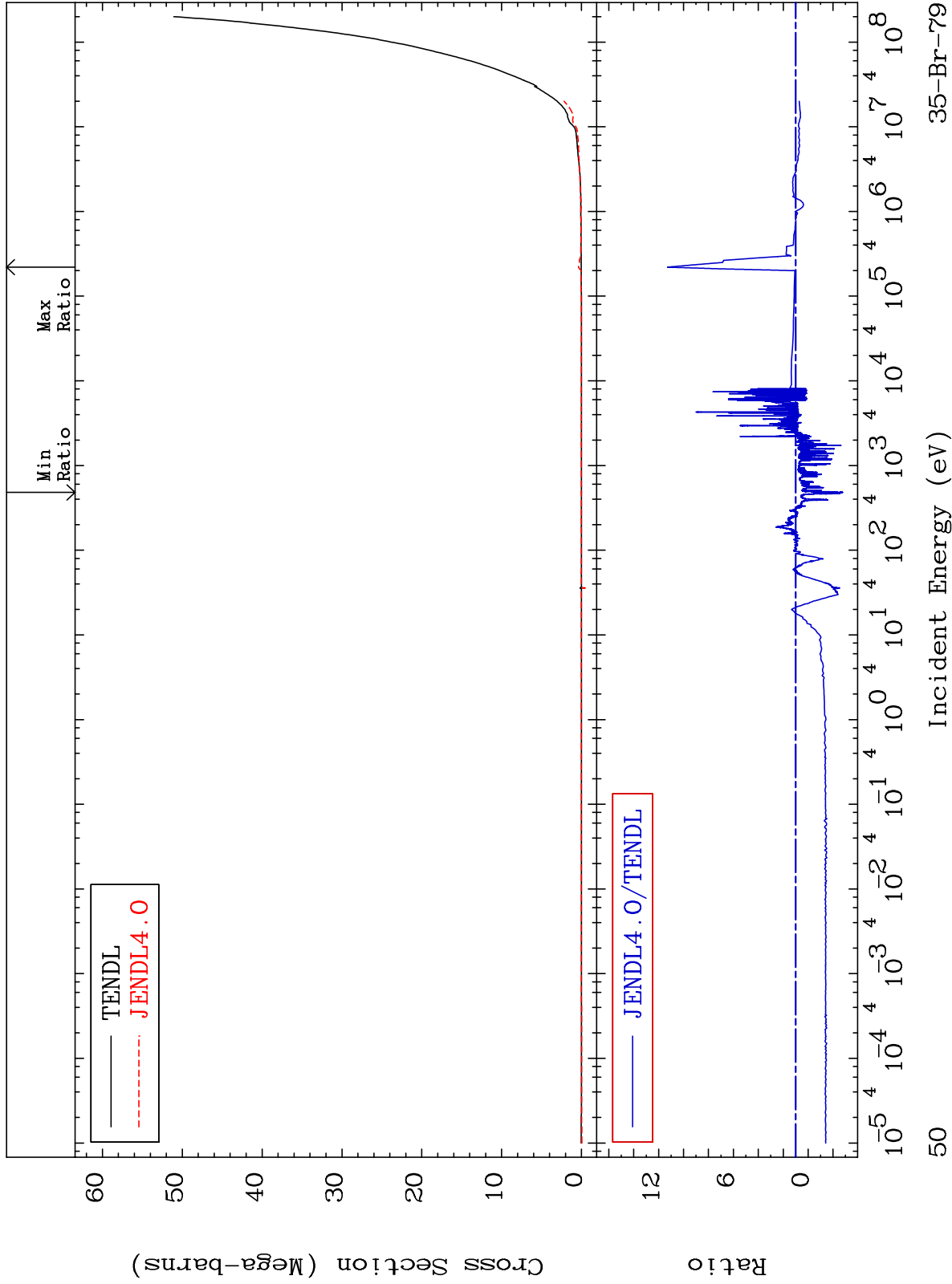
35-Br-79  
-51.92 To 36.77 %



MAT 3525

Kerma total (eV-barns)  
Cross Section

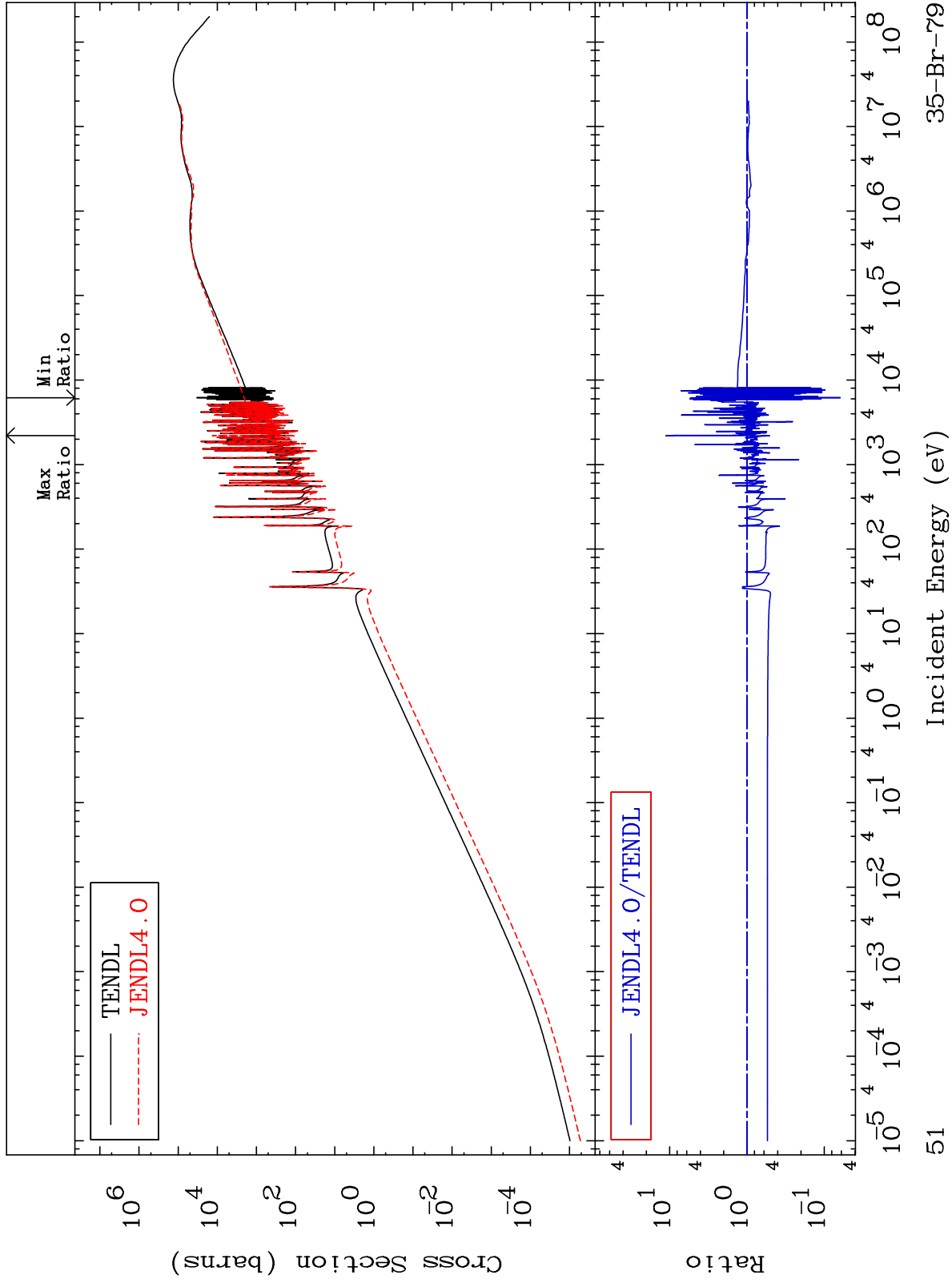
35-Br-79  
-377.4 To 1029. %



MAT 3525

Kerma elastic  
Cross Section

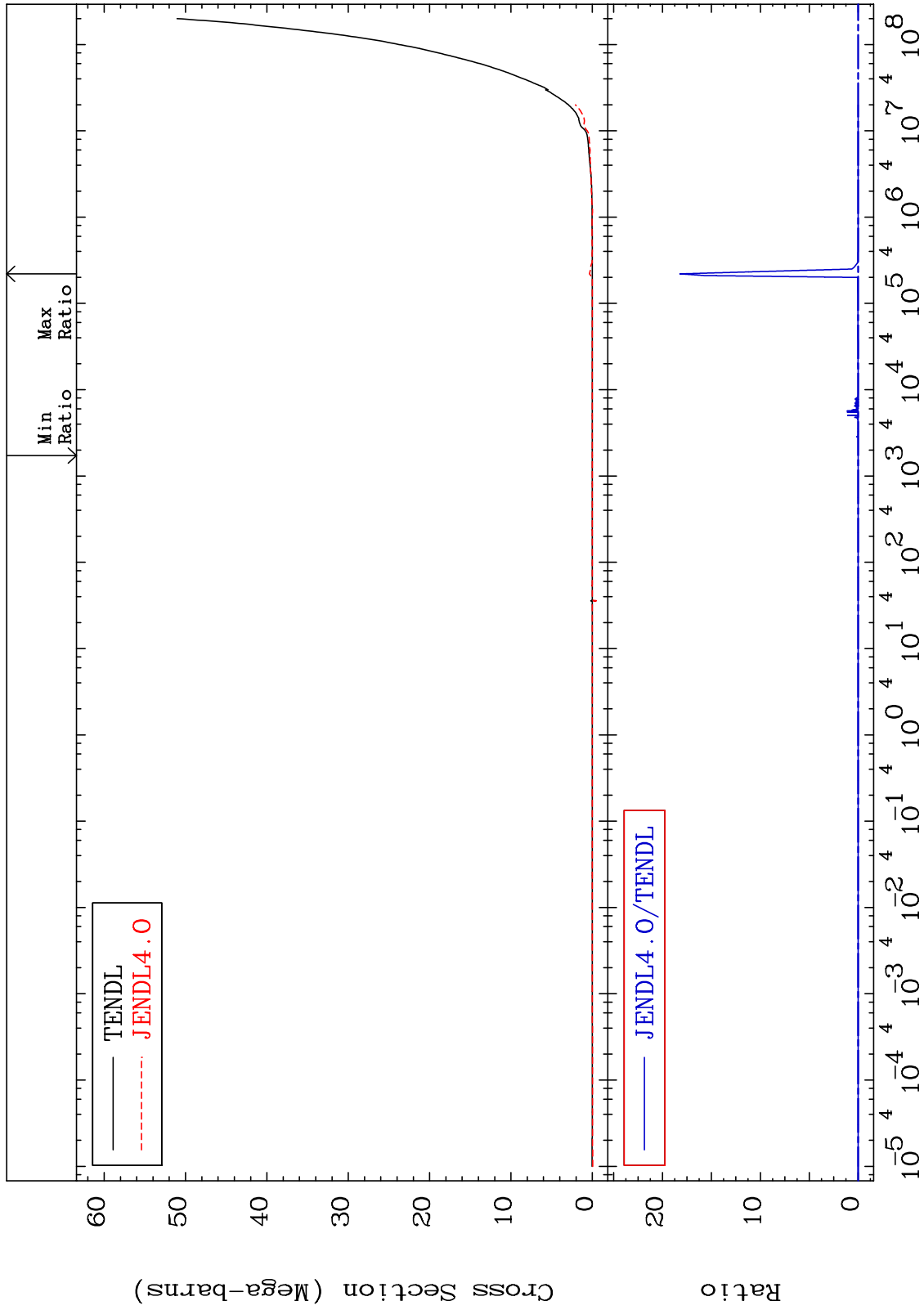
35-Br-79  
-93.85 To 1021. %



MAT 3525

Kerma non-elastic (all but mt2)  
Cross Section

35-Br-79  
-3264. To 9999. %



52

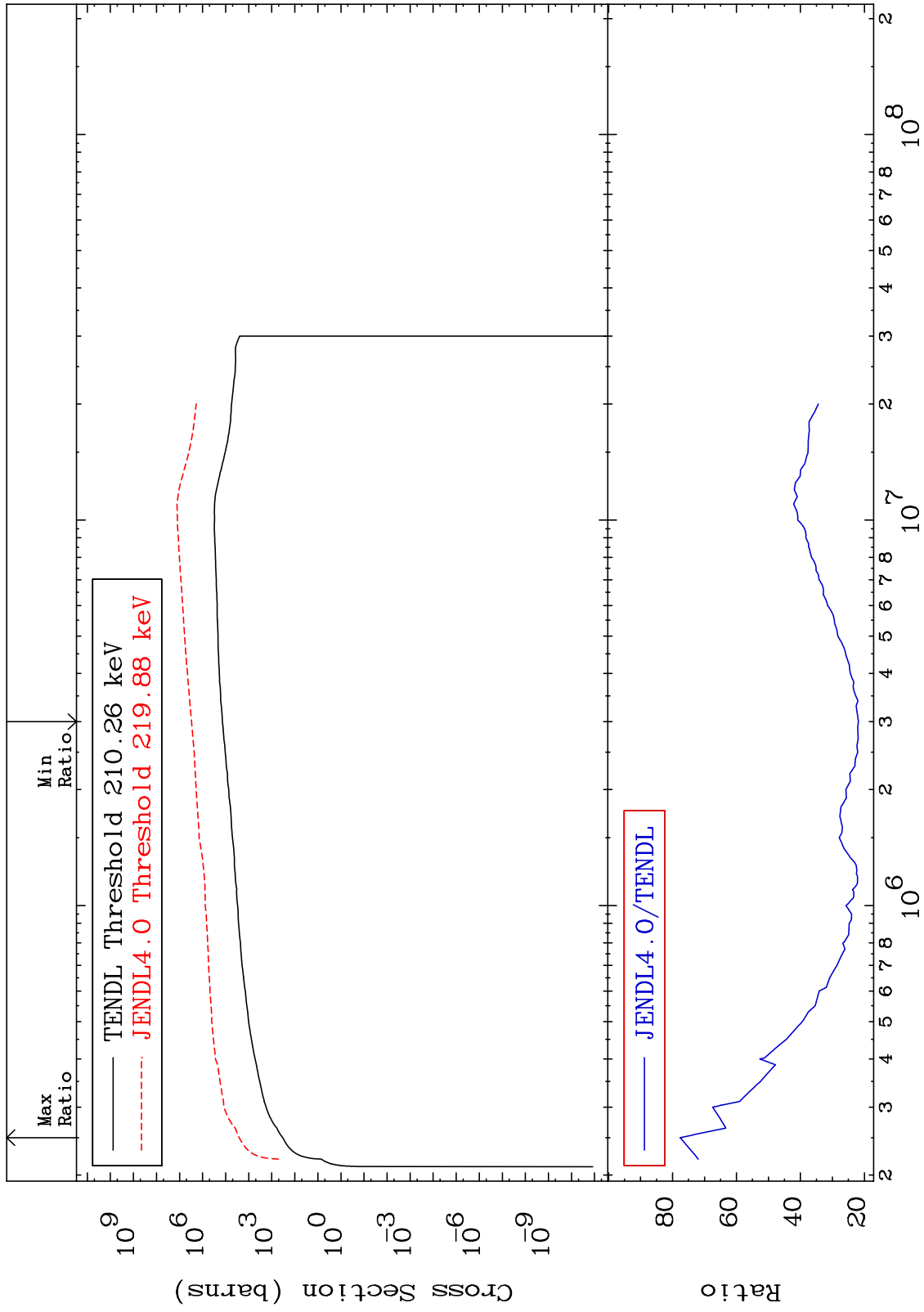
Incident Energy (eV)

35-Br-79

MAT 3525

Kerma inelastic (mt51-91)  
Cross Section

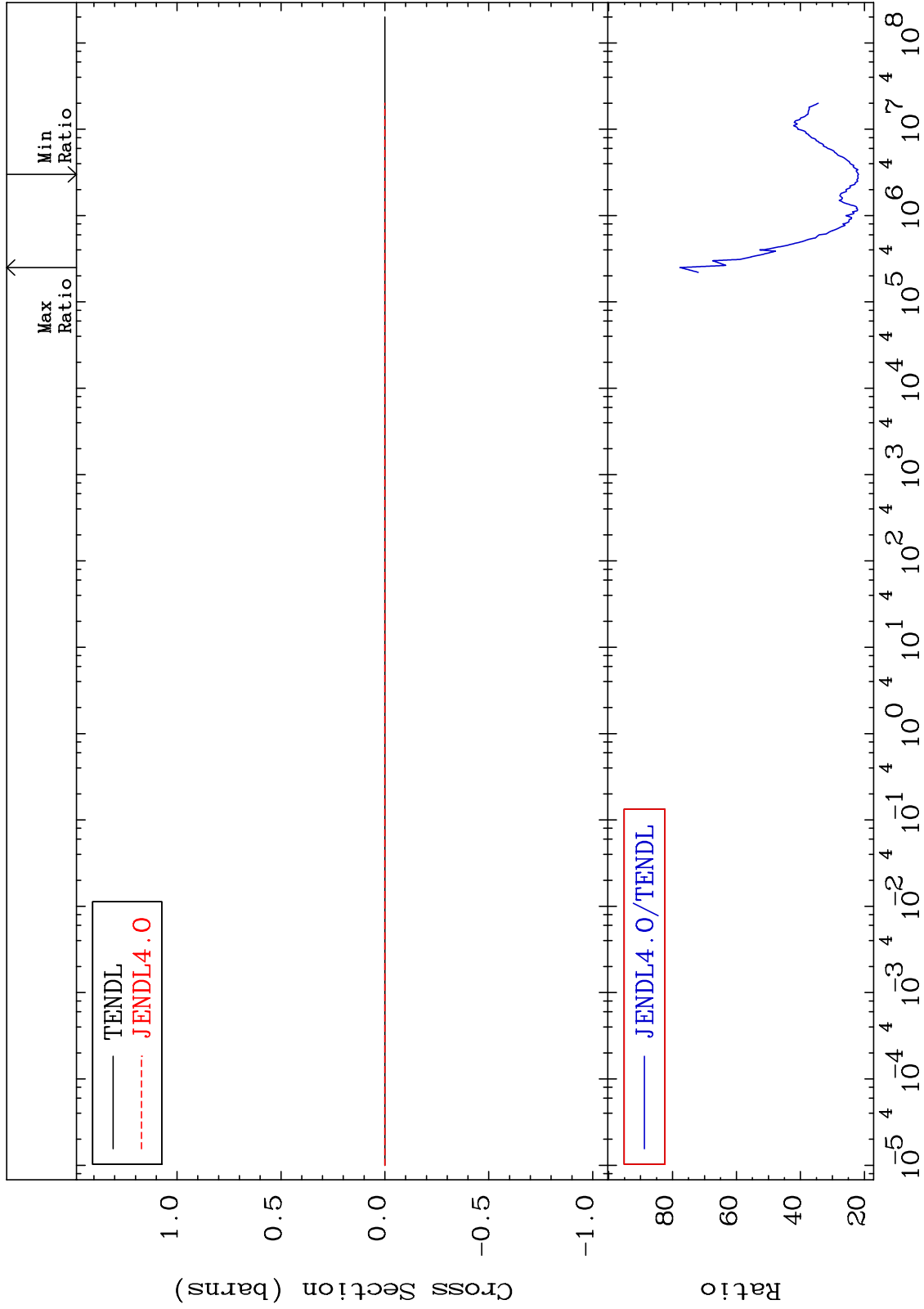
35-Br-79  
2087. To 7666. %



MAT 3525

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

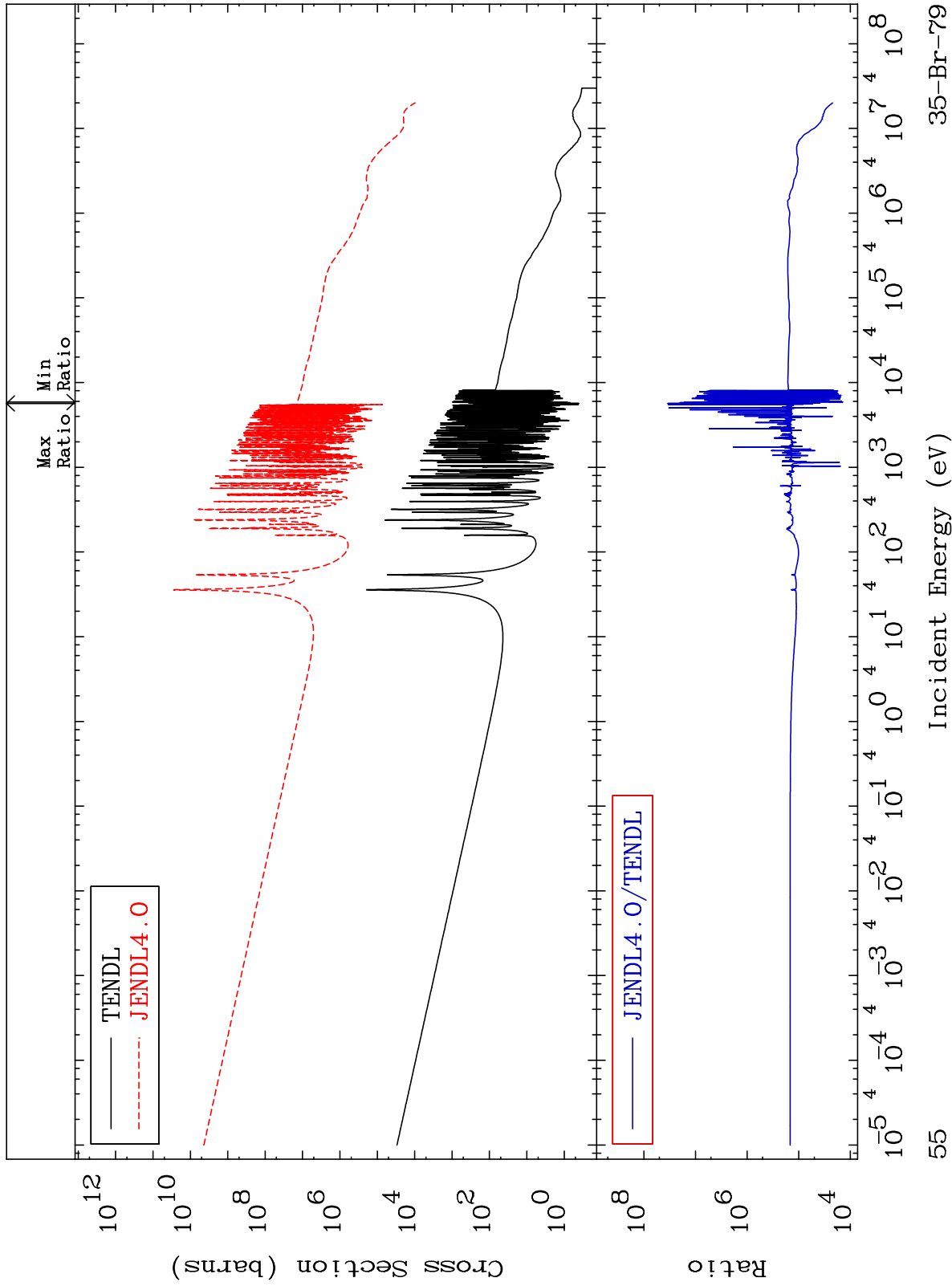
2087. To 7666. %  
35-Br-79



MAT 3525

Kerma capture (mt102)  
Cross Section

35-Br-79  
9999. To 9999. %

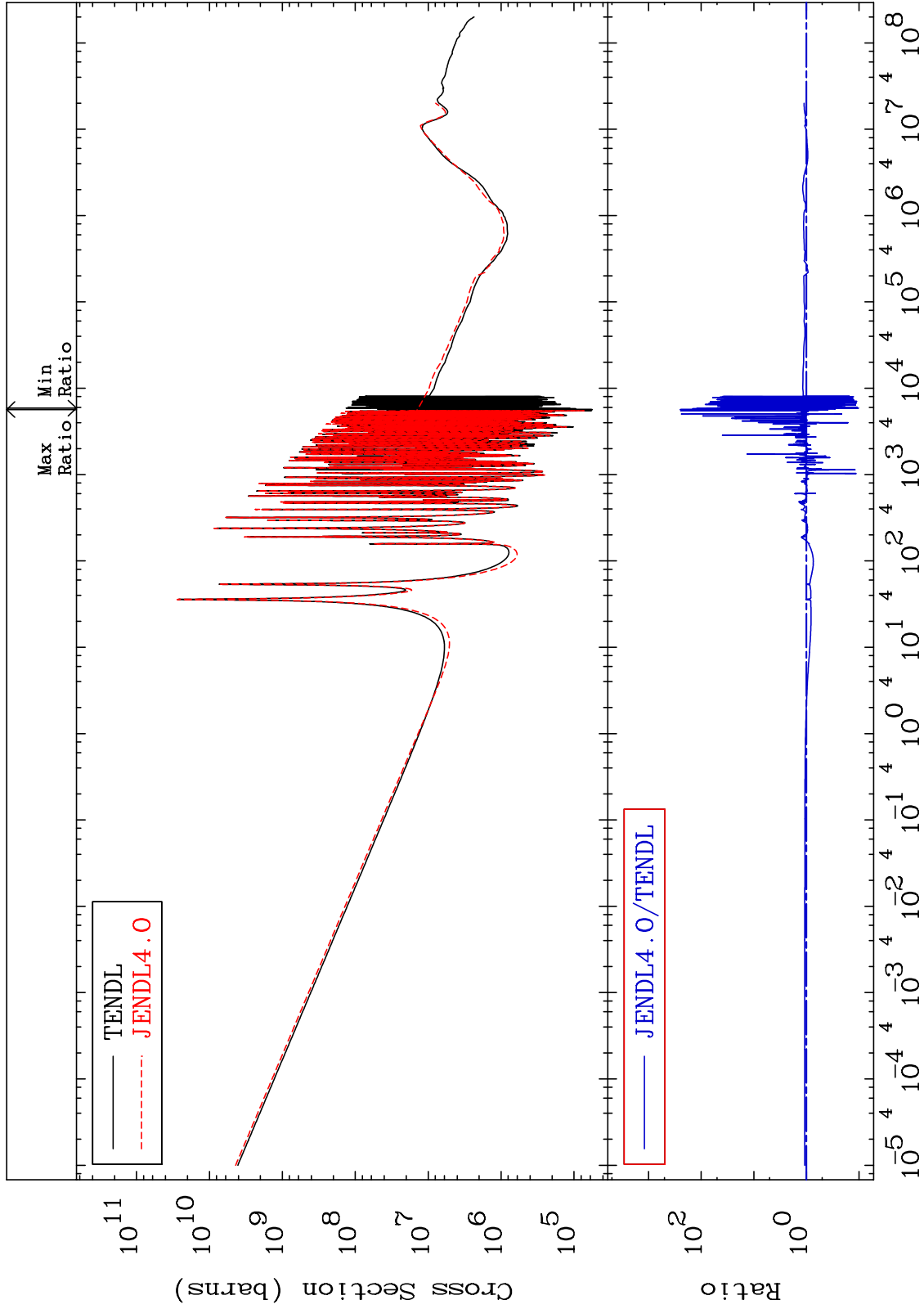




MAT 3525

Total photon (eV-barns)  
Cross Section

35-Br-79  
-89.76 To 9999. %



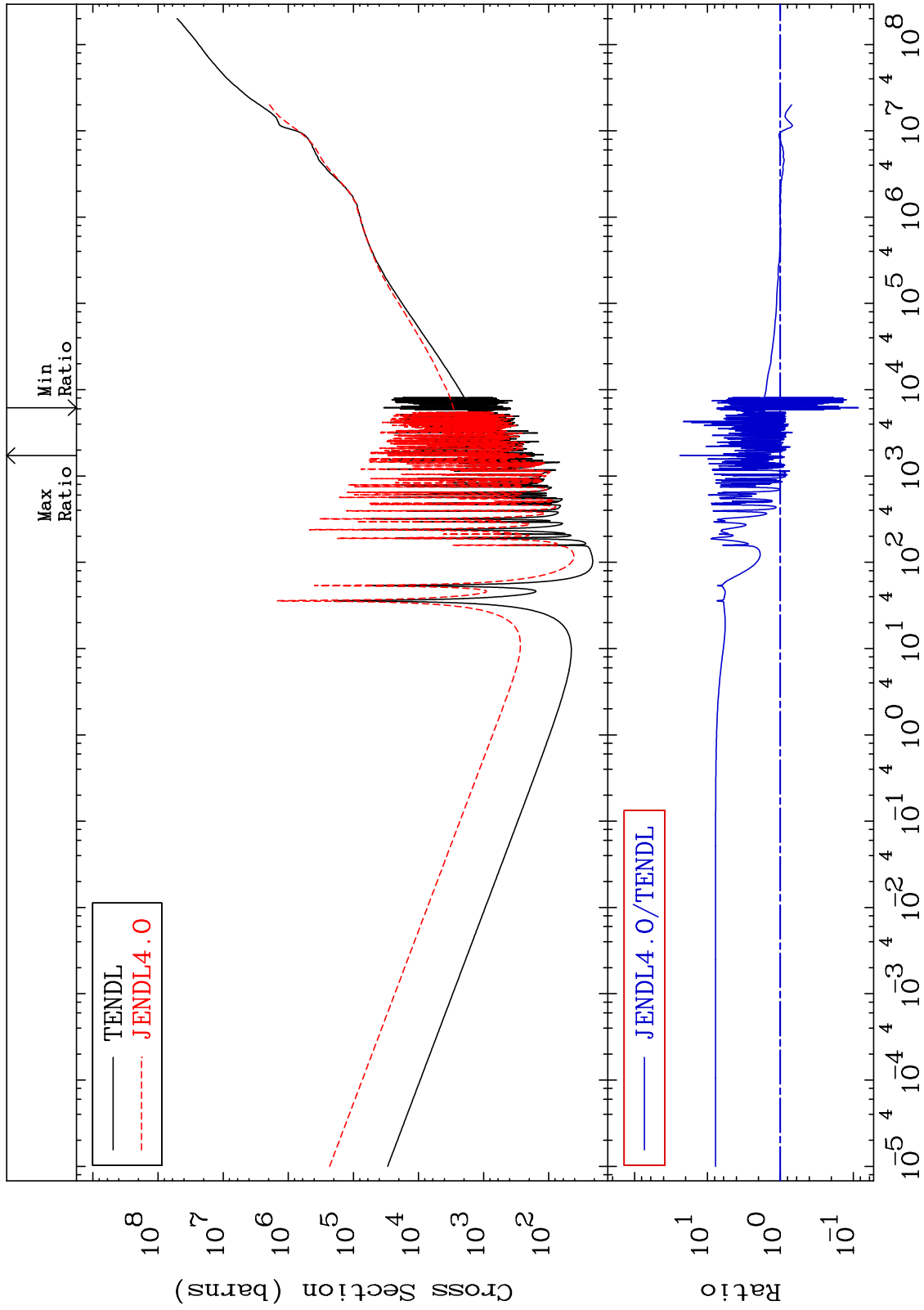
— TENDL  
- - - JENDL4.0

— JENDL4.0/TENDL

MAT 3525

Total kinematic kerma (high limit)  
Cross Section

35-Br-79  
-91.50 To 2280. %



57

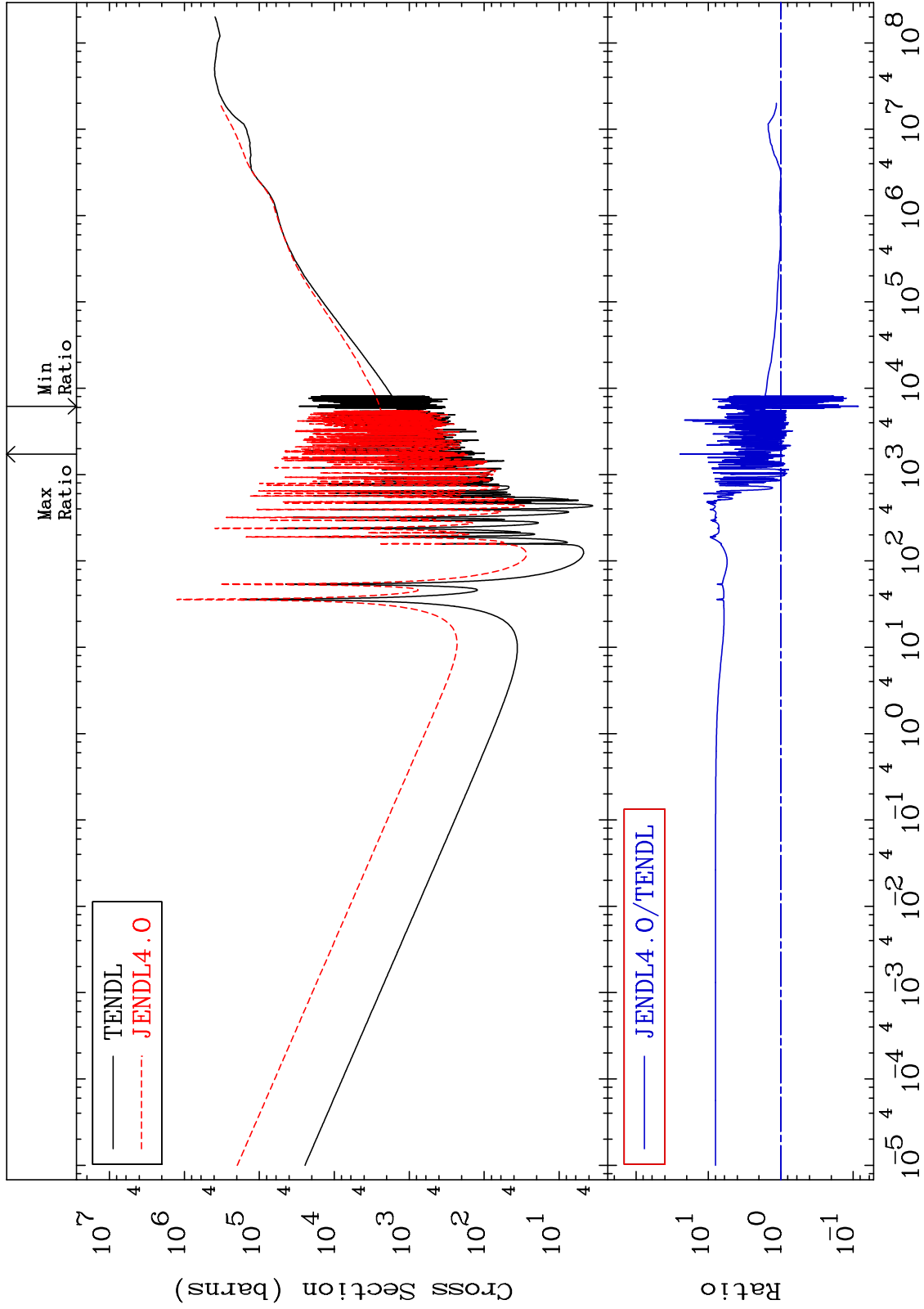
Incident Energy (eV)

35-Br-79

MAT 3525

Dpa total (eV-barns)  
Cross Section

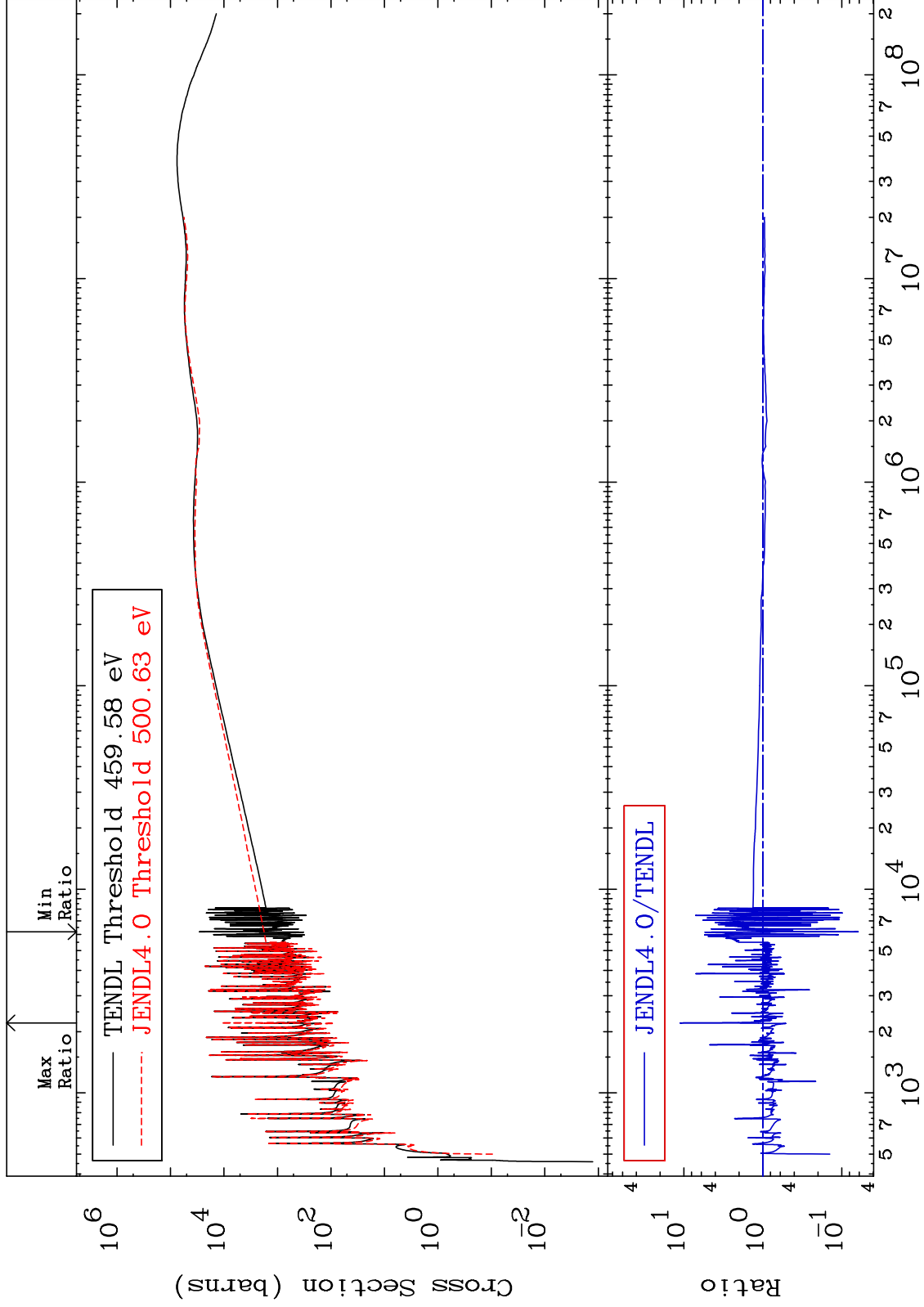
35-Br-79  
-91.54 To 2367. %



MAT 3525

Dpa elastic (mt2)  
Cross Section

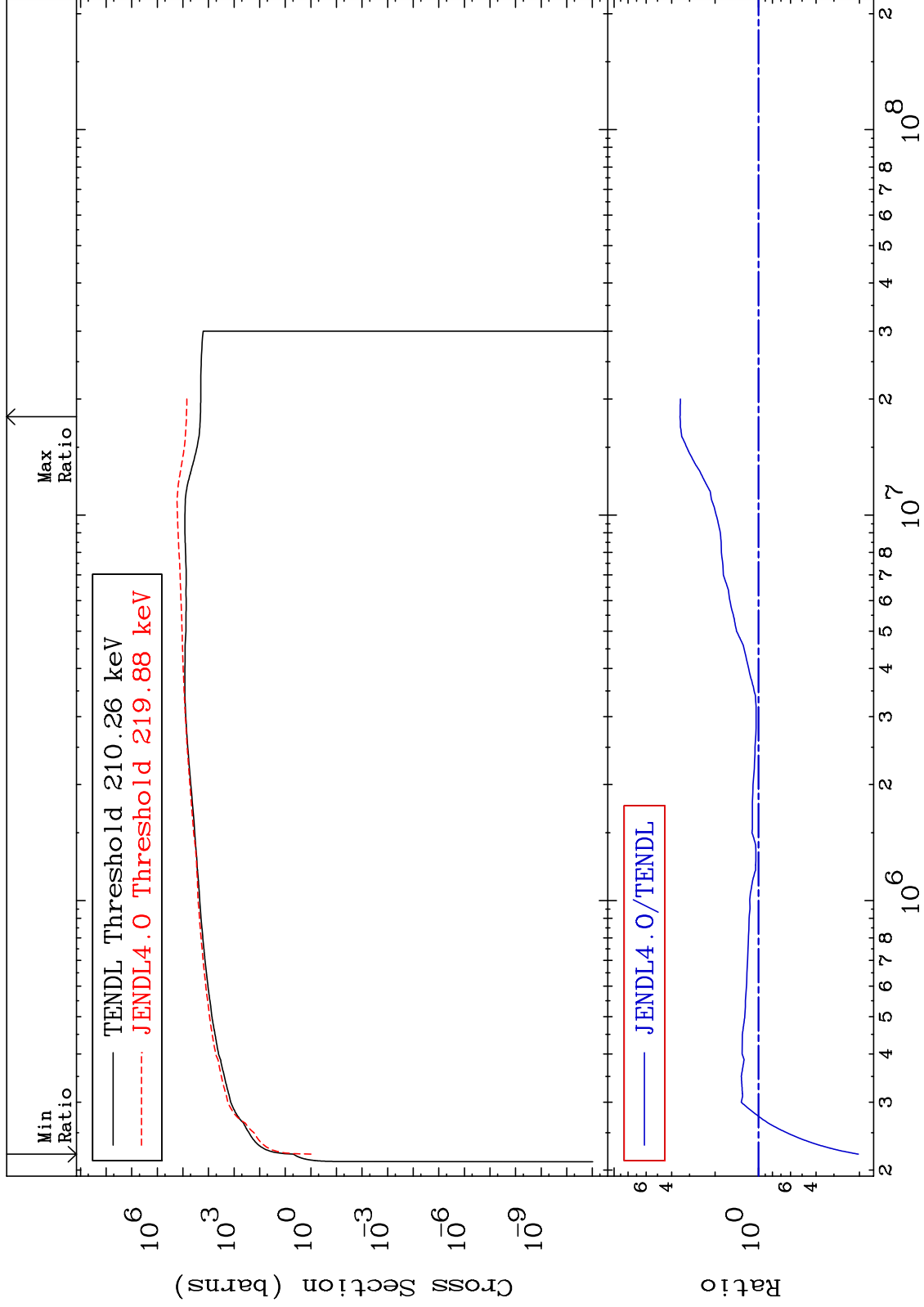
35-Br-79  
-93.85 To 1021. %



MAT 3525

Dpa inelastic (mt51-91)  
Cross Section

35-Br-79  
-79.67 To 249.6 %



60

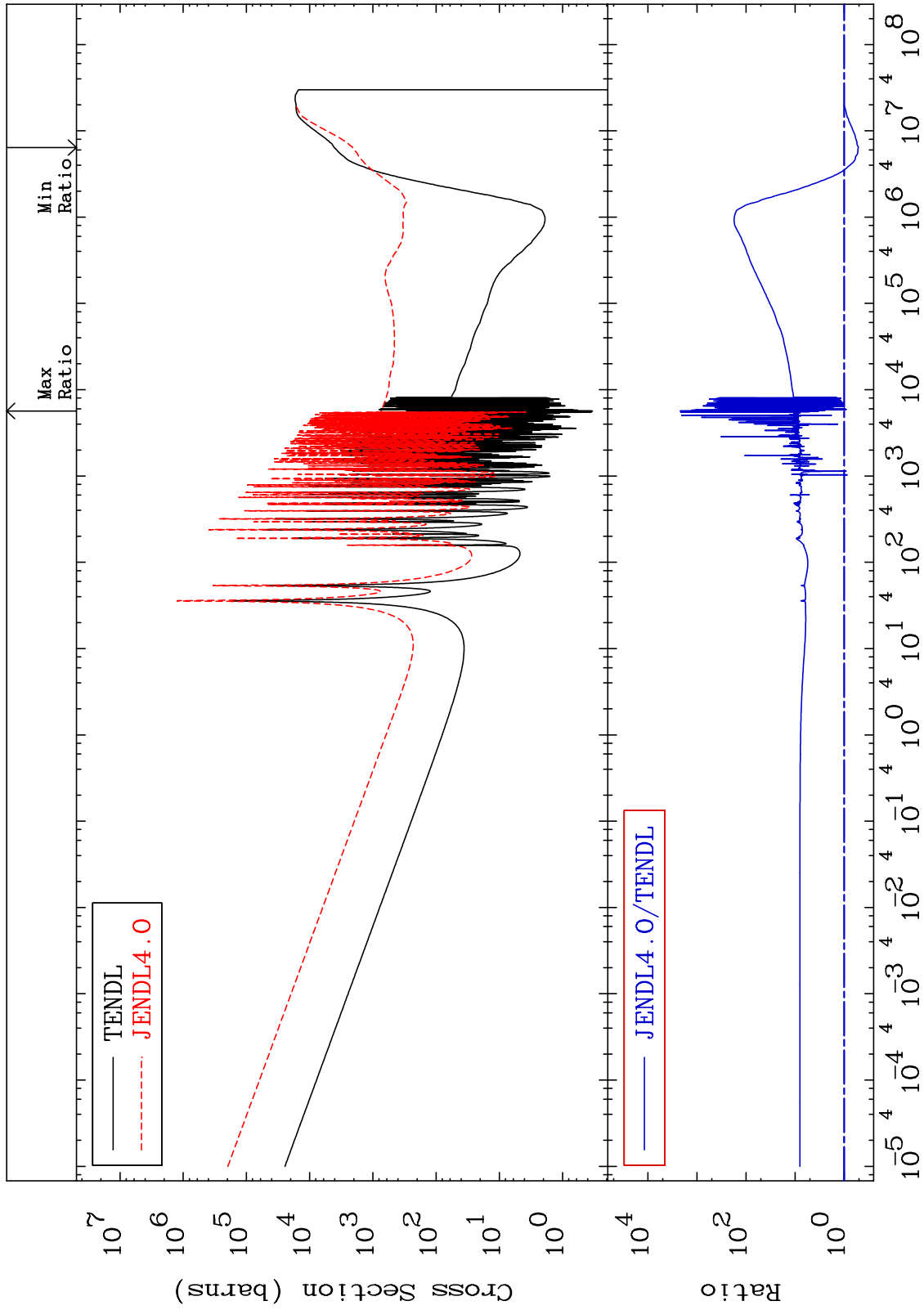
Incident Energy (eV)

35-Br-79

MAT 3525

Dpa disappearance (mt102 -120)  
Cross Section

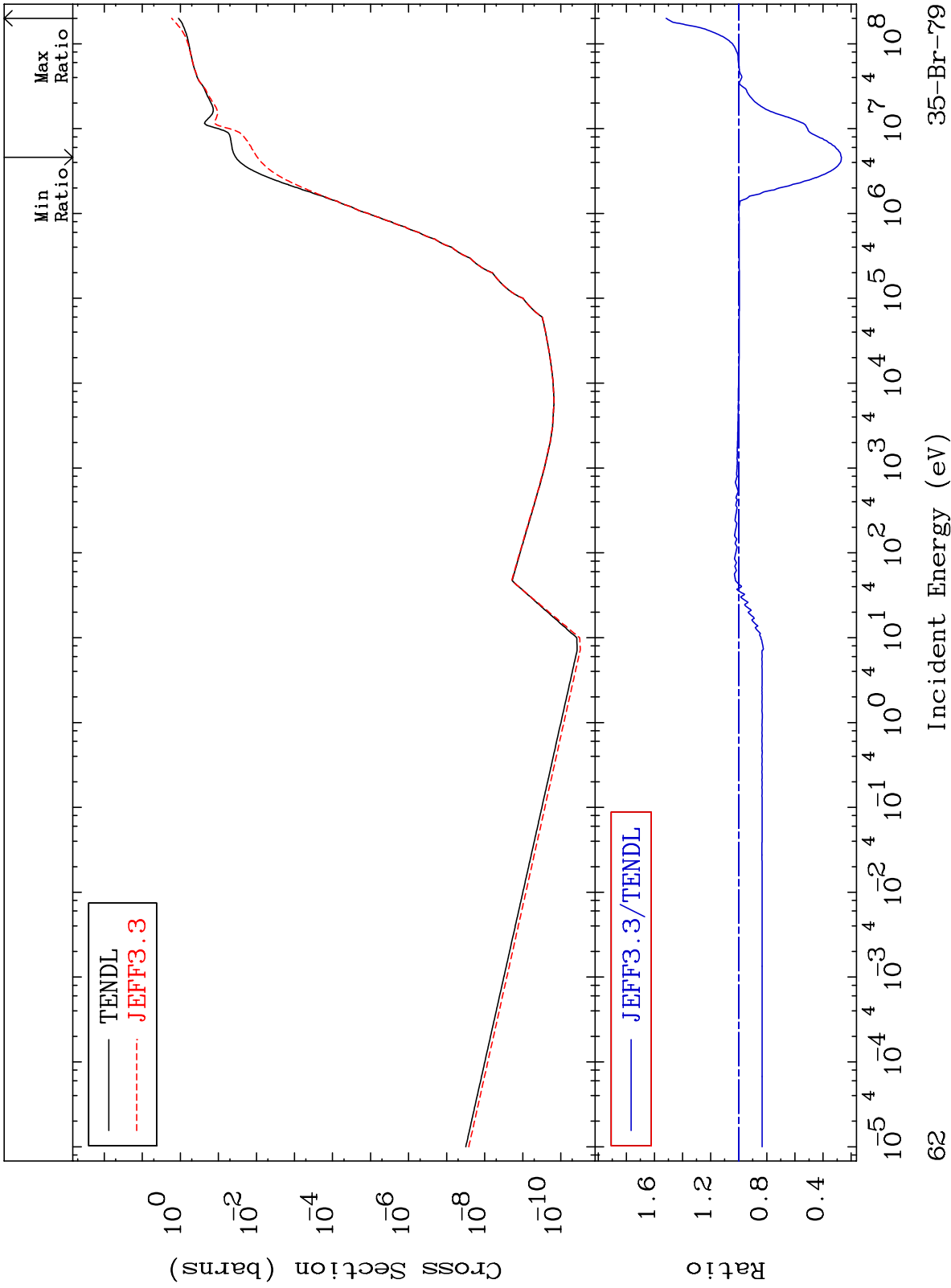
35-Br-79  
-48.71 To 9999. %



MAT 3525

### Hydrogen Production Cross Section

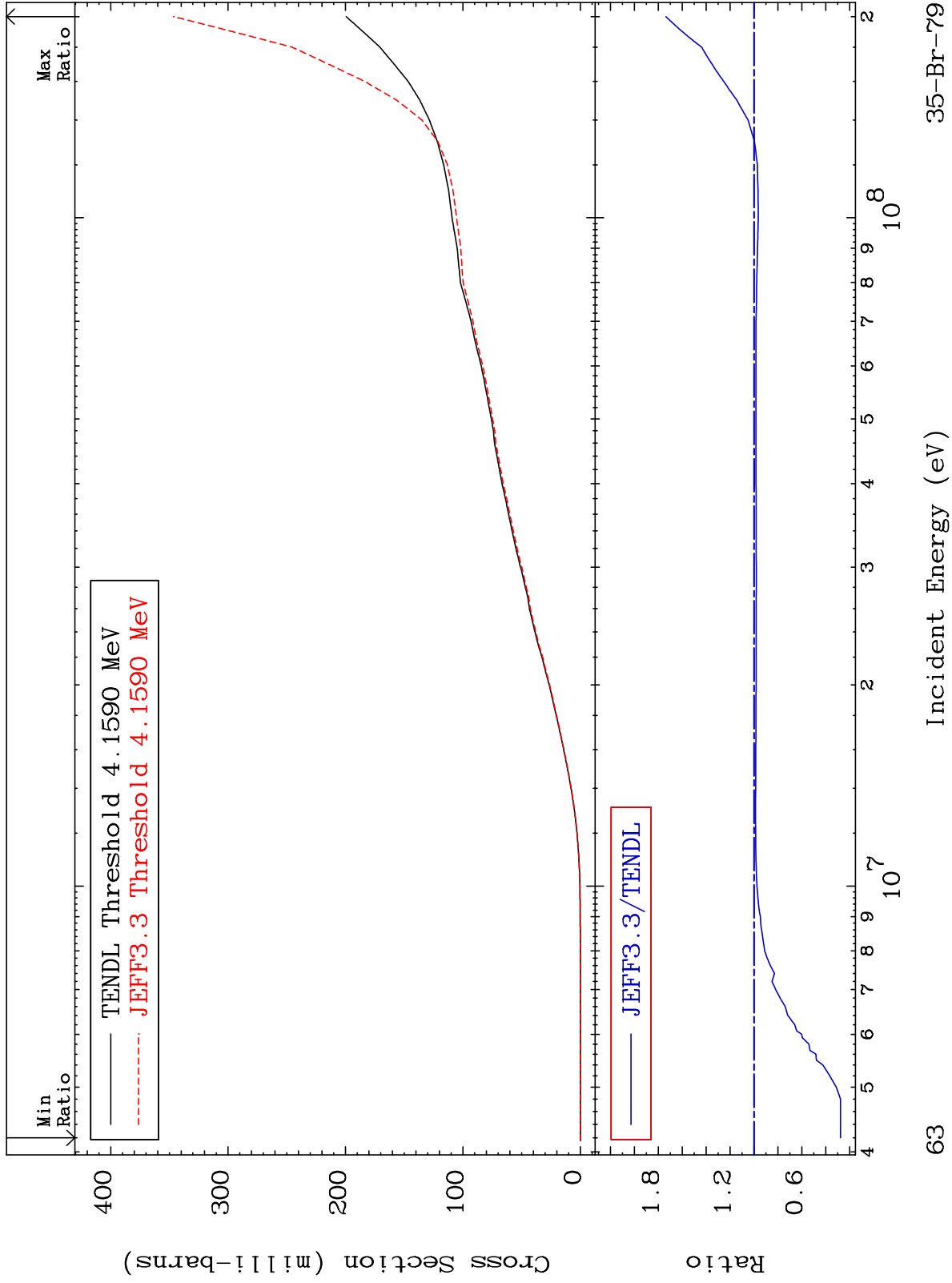
35-Br-79  
-73.15 To 51.66 %



MAT 3525

Deuterium Production  
Cross Section

35-Br-79  
-72.30 To 73.73 %

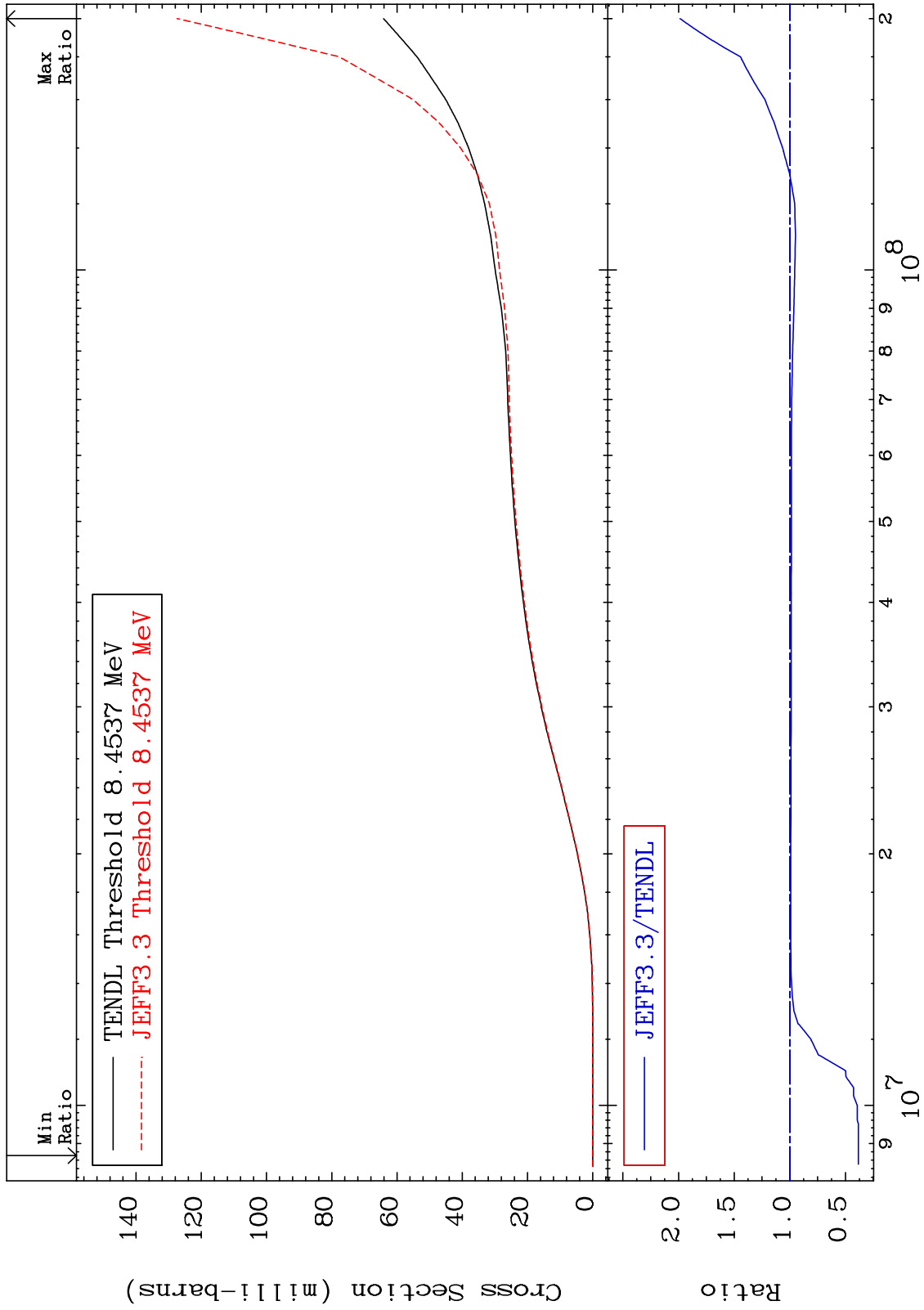




MAT 3525

Tritium Production  
Cross Section

35-Br-79  
-61.66 To 98.67 %



64

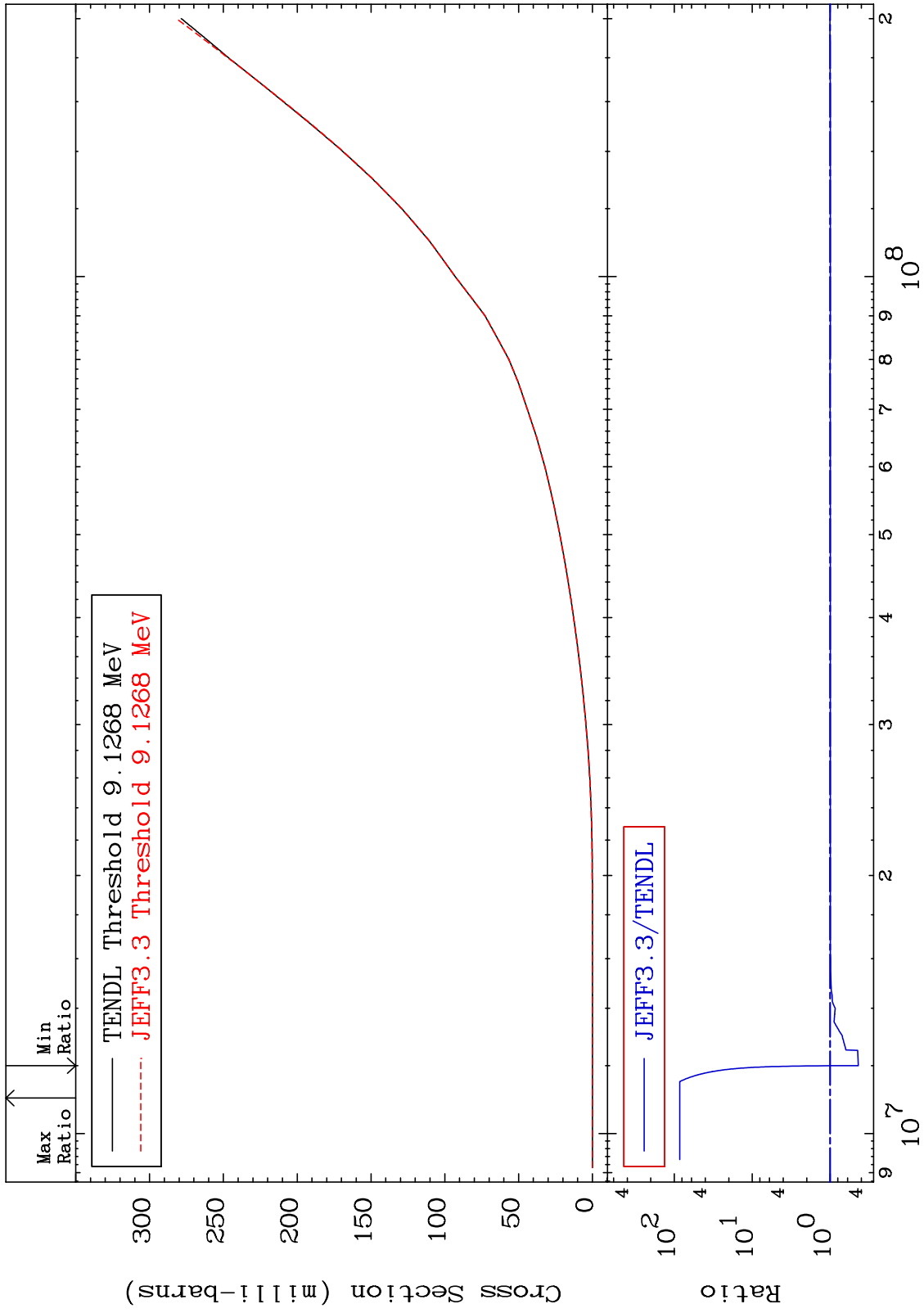
Incident Energy (eV)

35-Br-79

MAT 3525

He-3 Production  
Cross Section

35-Br-79  
-56.38 To 8392. %



65

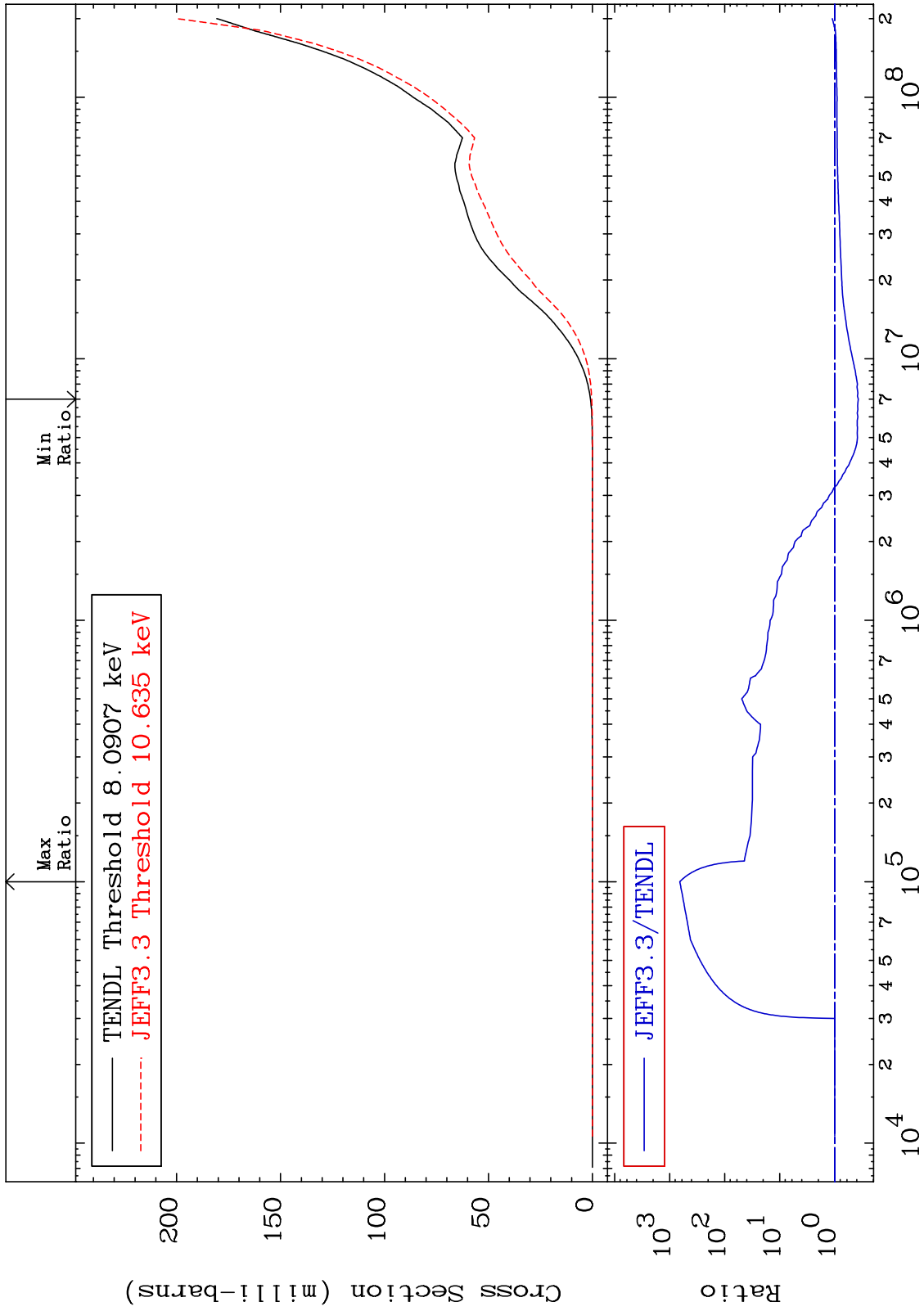
Incident Energy (eV)

35-Br-79

MAT 3525

He-4 Production  
Cross Section

35-Br-79  
-62.65 To 9999. %



66

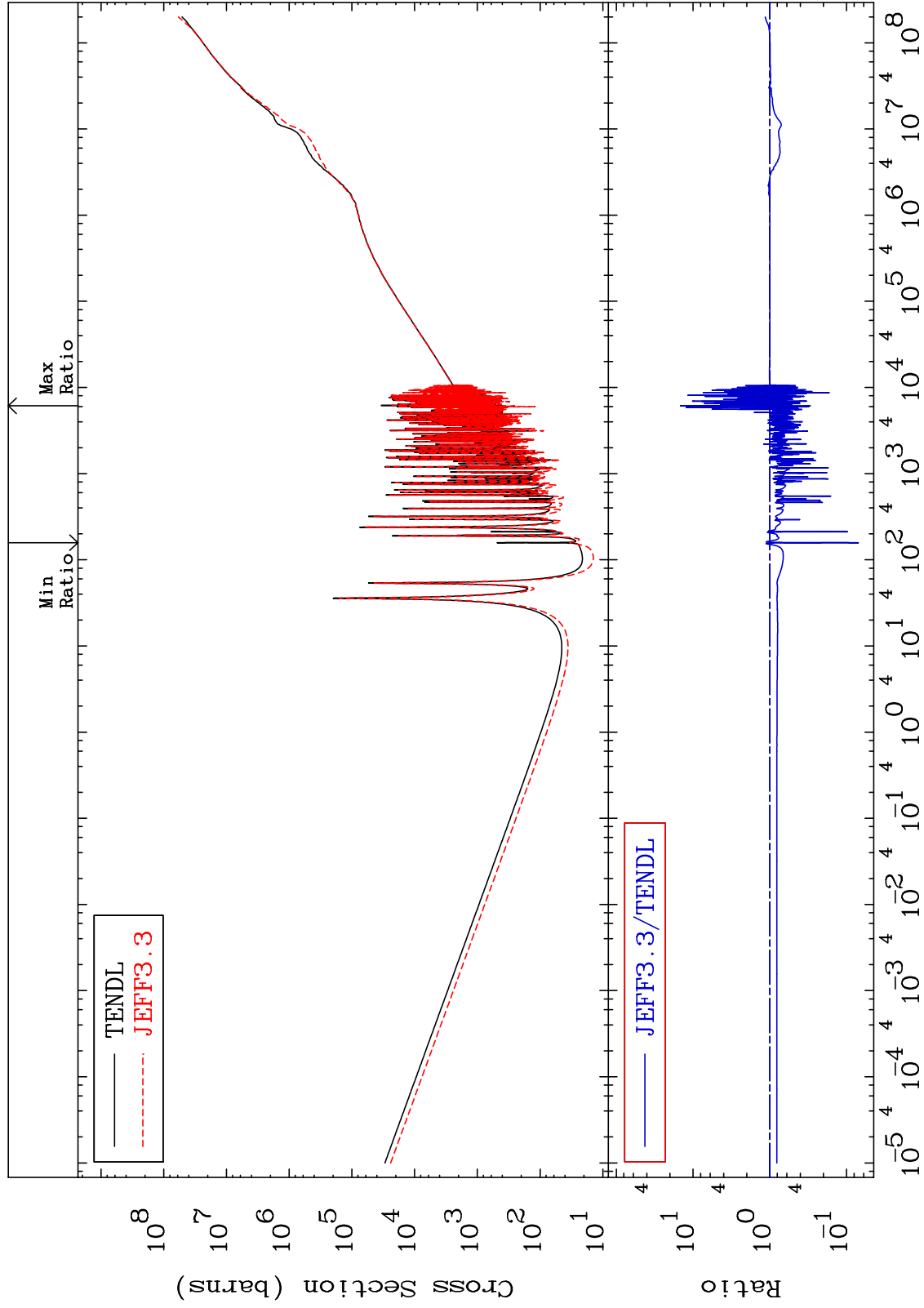
Incident Energy (eV)

35-Br-79

MAT 3525

Kerma total (eV-barns)  
Cross Section

35-Br-79  
-93.01 To 1362. %



67

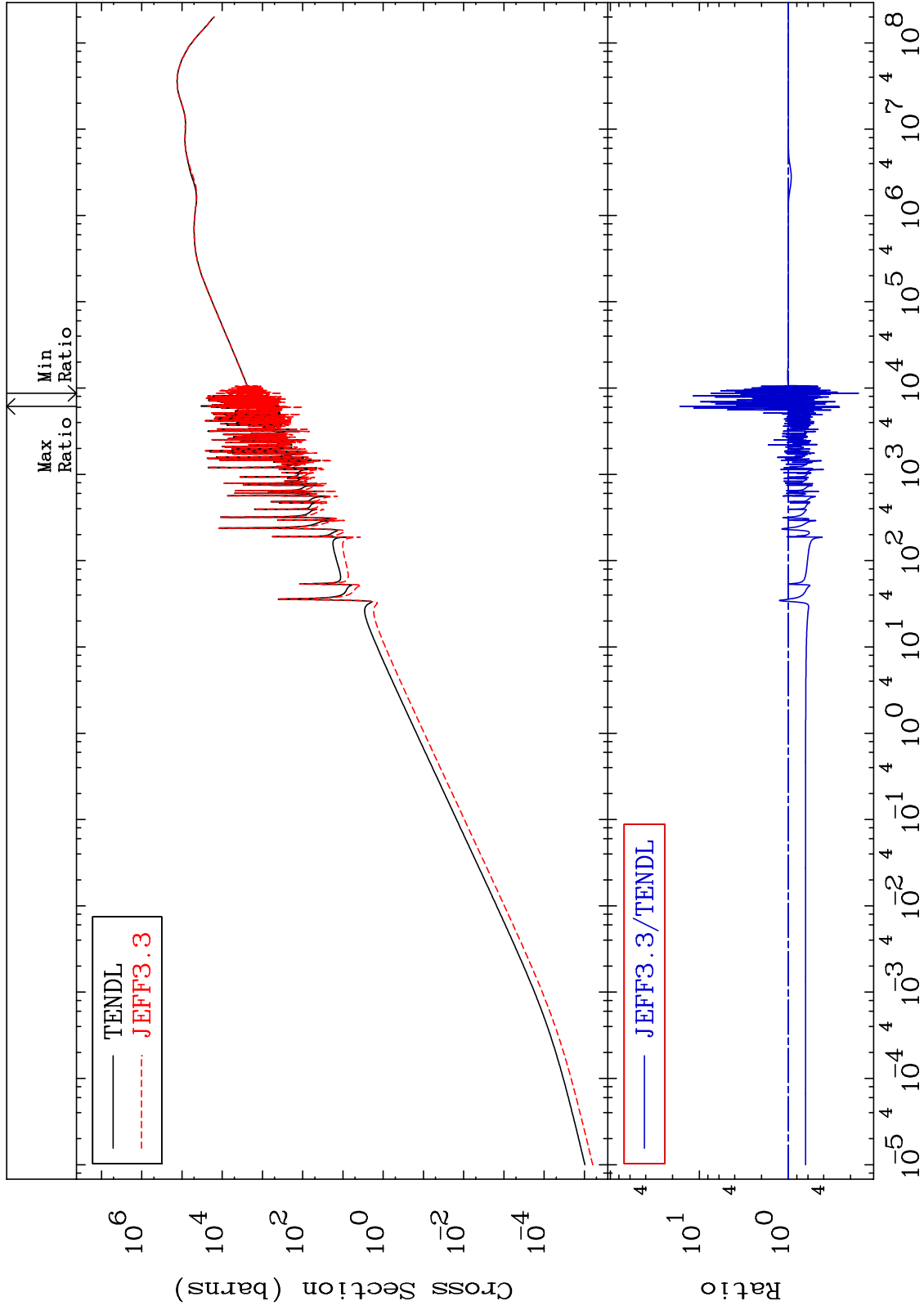
Incident Energy (eV)

35-Br-79

MAT 3525

Kerma elastic  
Cross Section

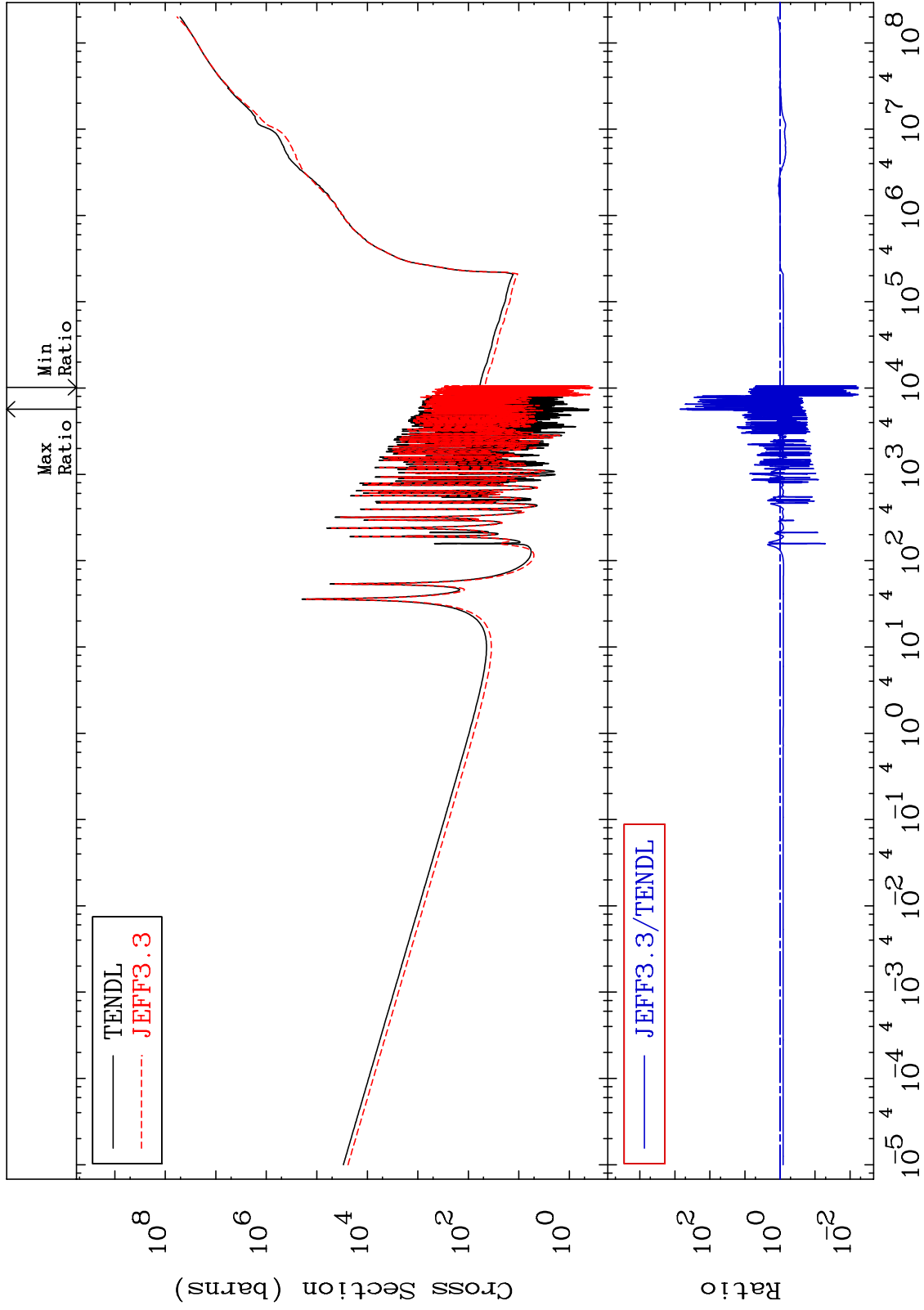
35-Br-79  
-83.70 To 1548. %



MAT 3525

Kerma non-elastic (all but mt2)  
Cross Section

35-Br-79  
-99.42 To 9999. %



69

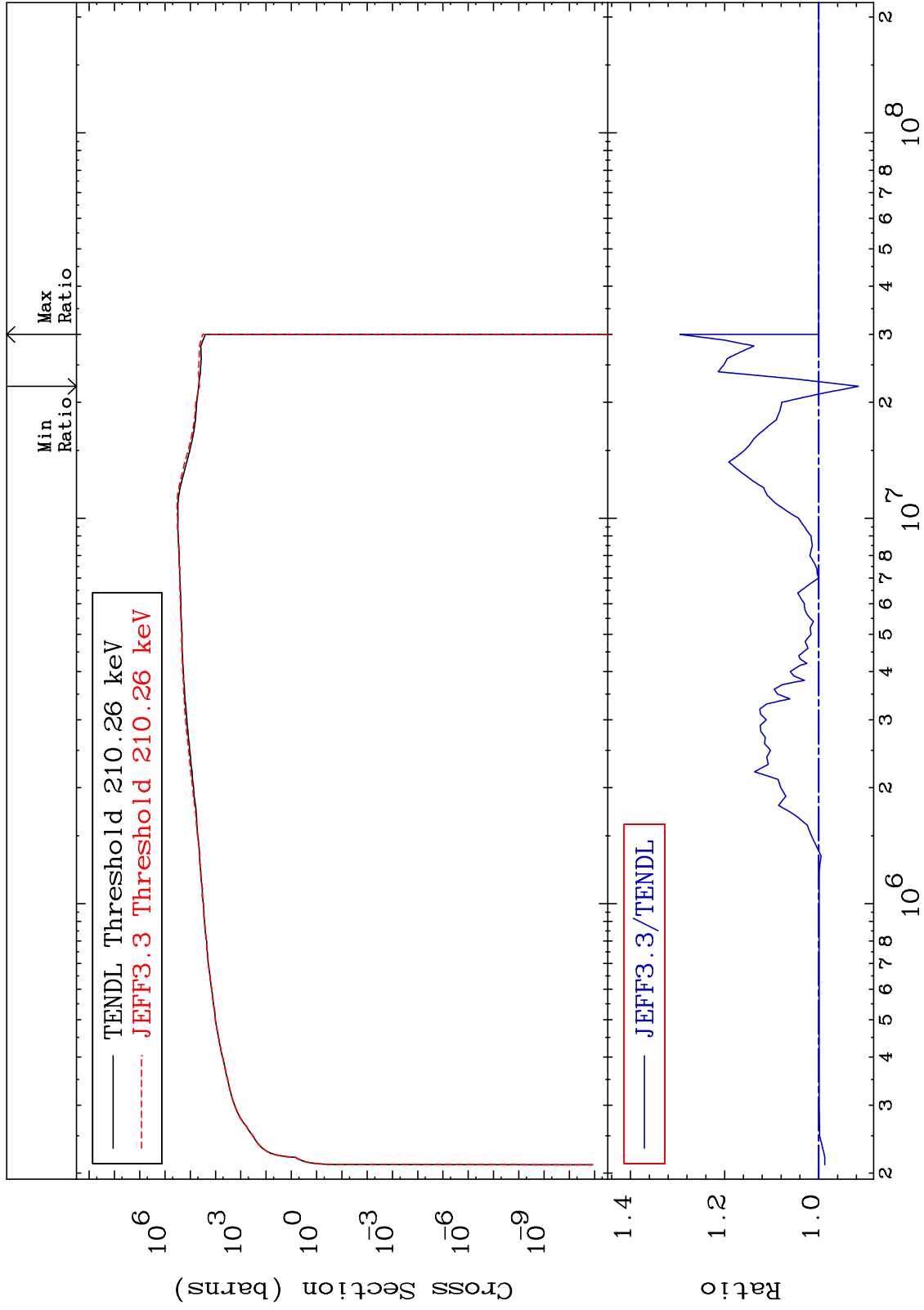
Incident Energy (eV)

35-Br-79

MAT 3525

Kerma inelastic (mt51-91)  
Cross Section

35-Br-79  
-8.430 To 29.48 %



70

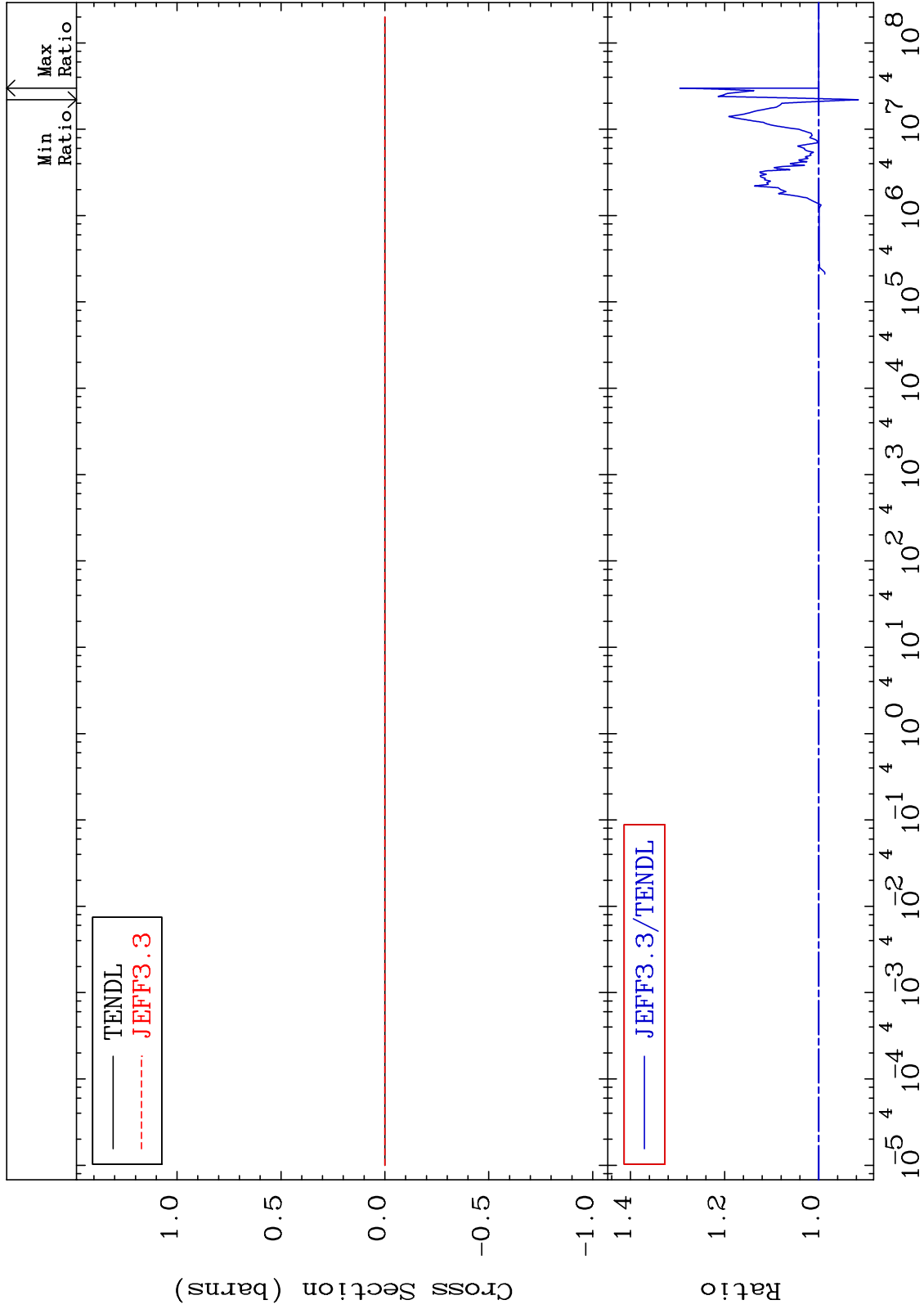
Incident Energy (eV)

35-Br-79

MAT 3525

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

35-Br-79  
-8.430 To 29.48 %



71

Incident Energy (eV)

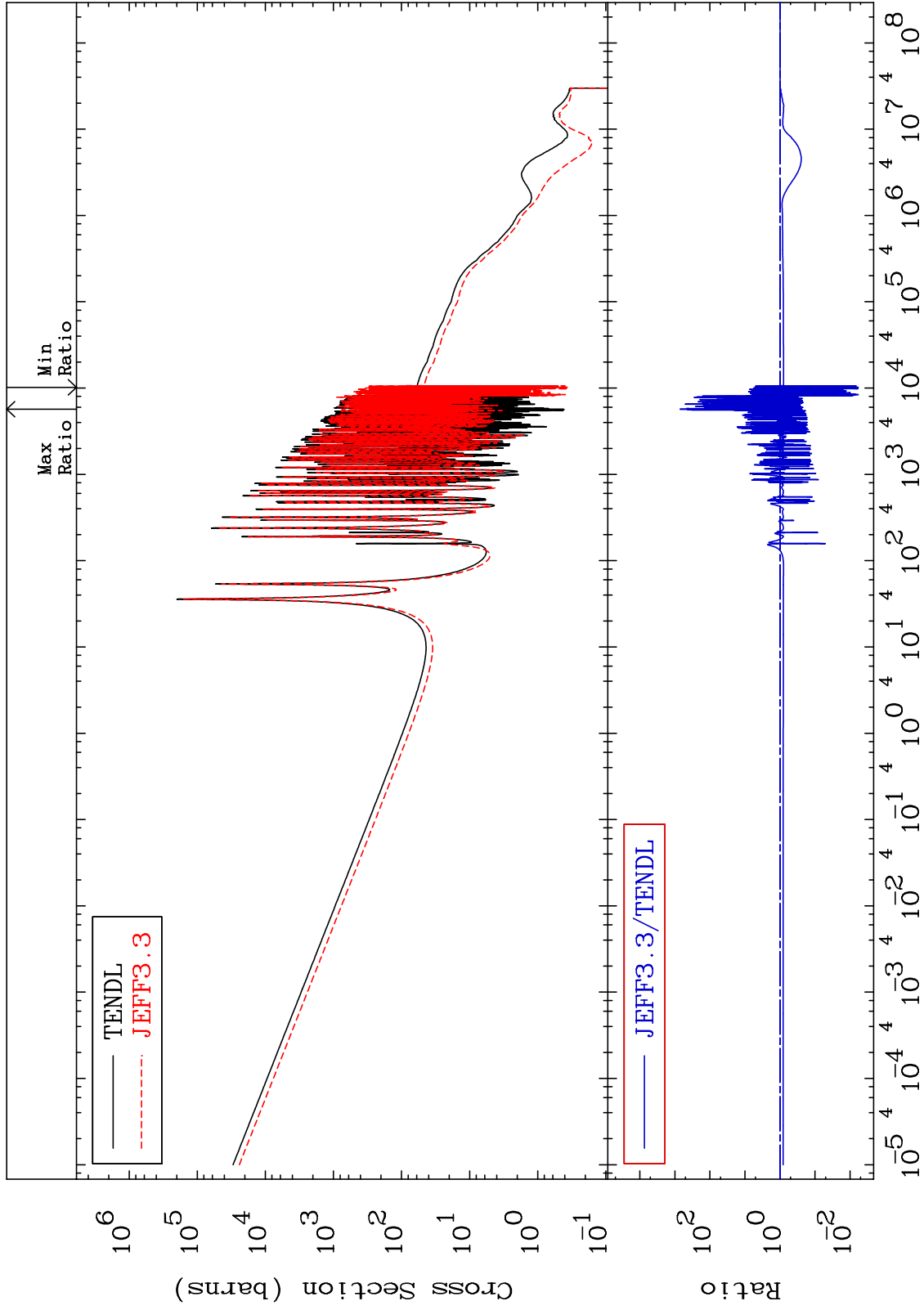
35-Br-79



MAT 3525

Kerma capture (mt102)  
Cross Section

35-Br-79  
-99.42 To 9999. %



72

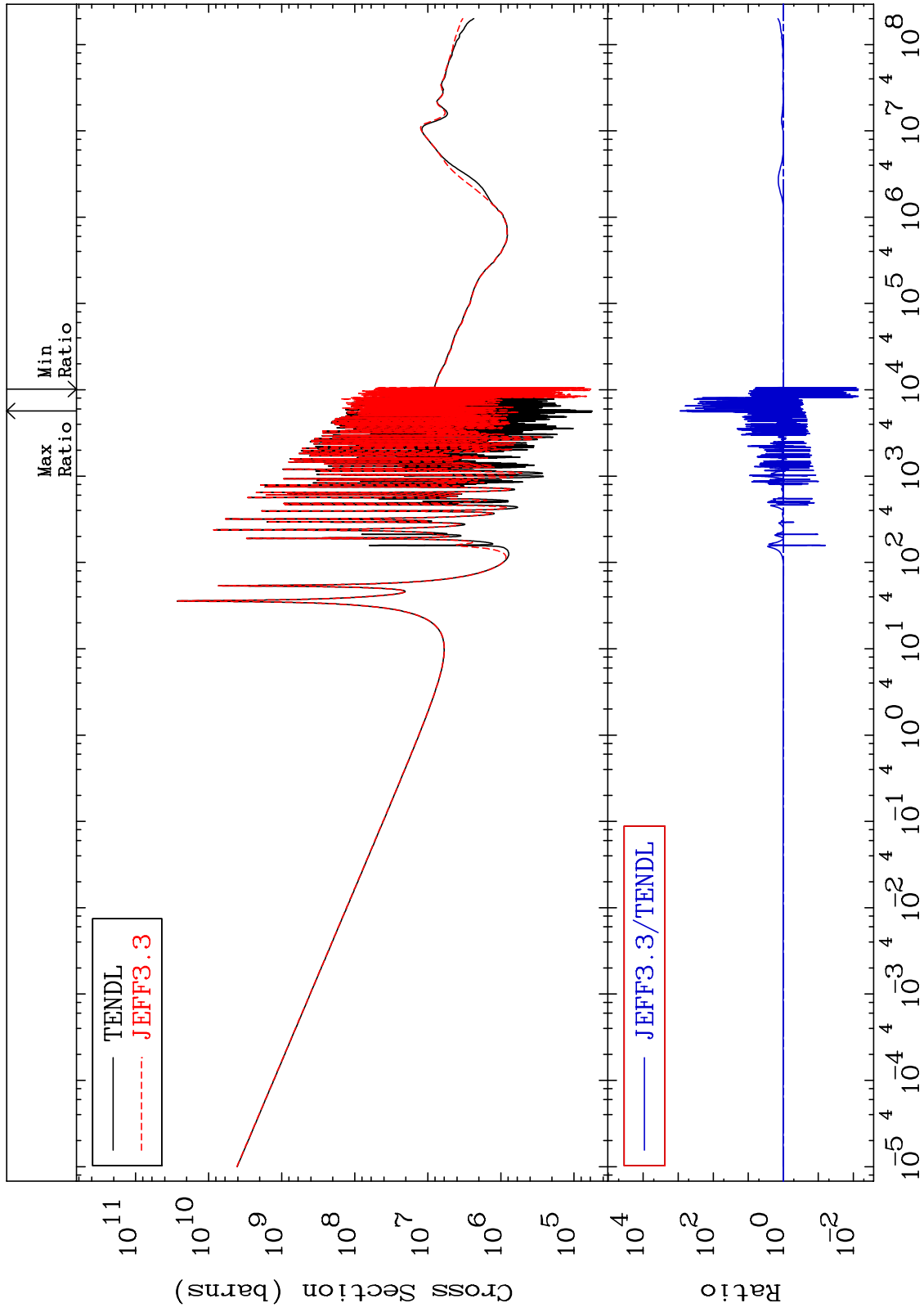
Incident Energy (eV)

35-Br-79

MAT 3525

Total photon (eV-barns)  
Cross Section

35-Br-79  
-99.28 To 9999. %



73

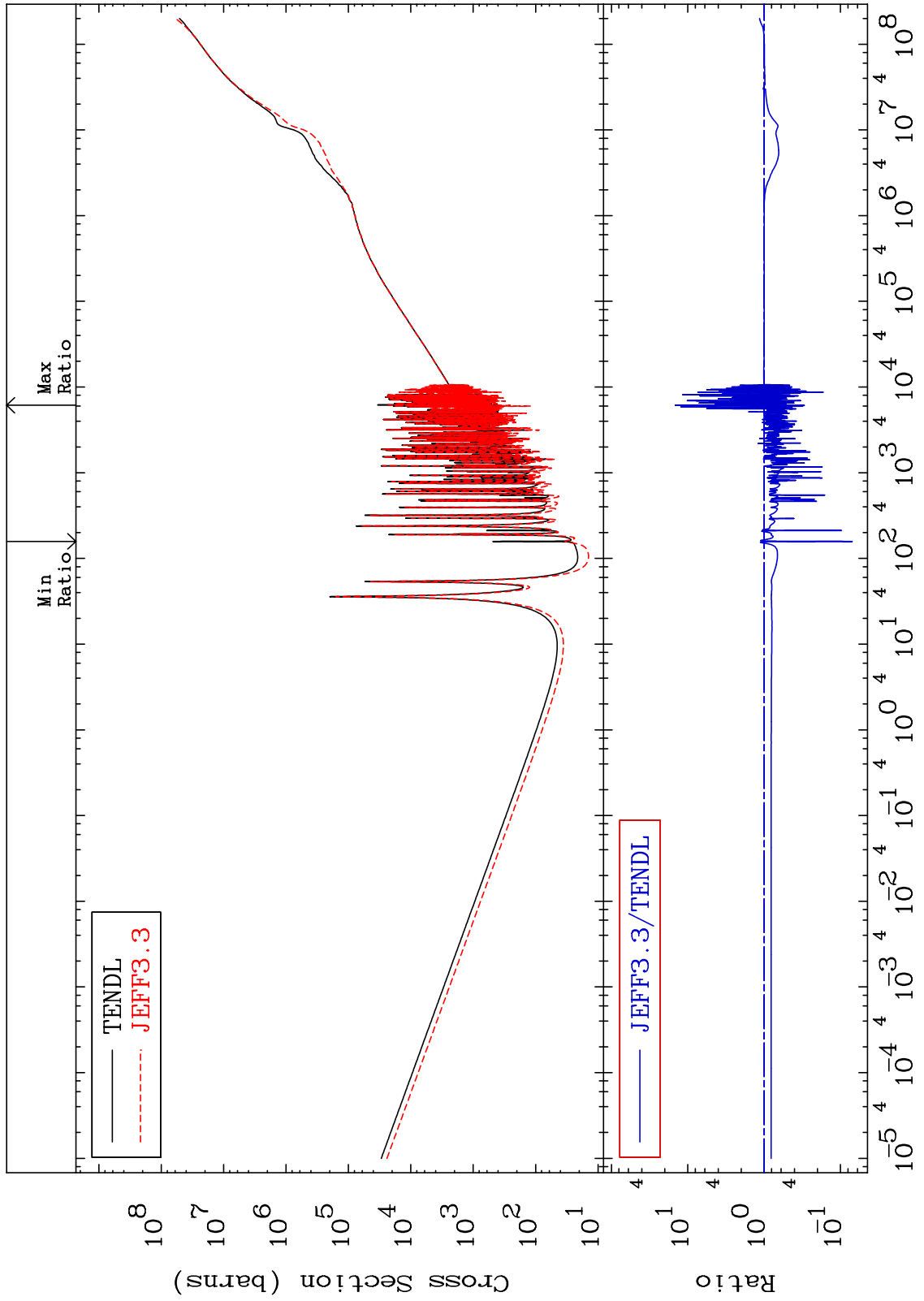
Incident Energy (eV)

35-Br-79

MAT 3525

Total kinematic kerma (high limit)  
Cross Section

35-Br-79  
-93.01 To 1362. %



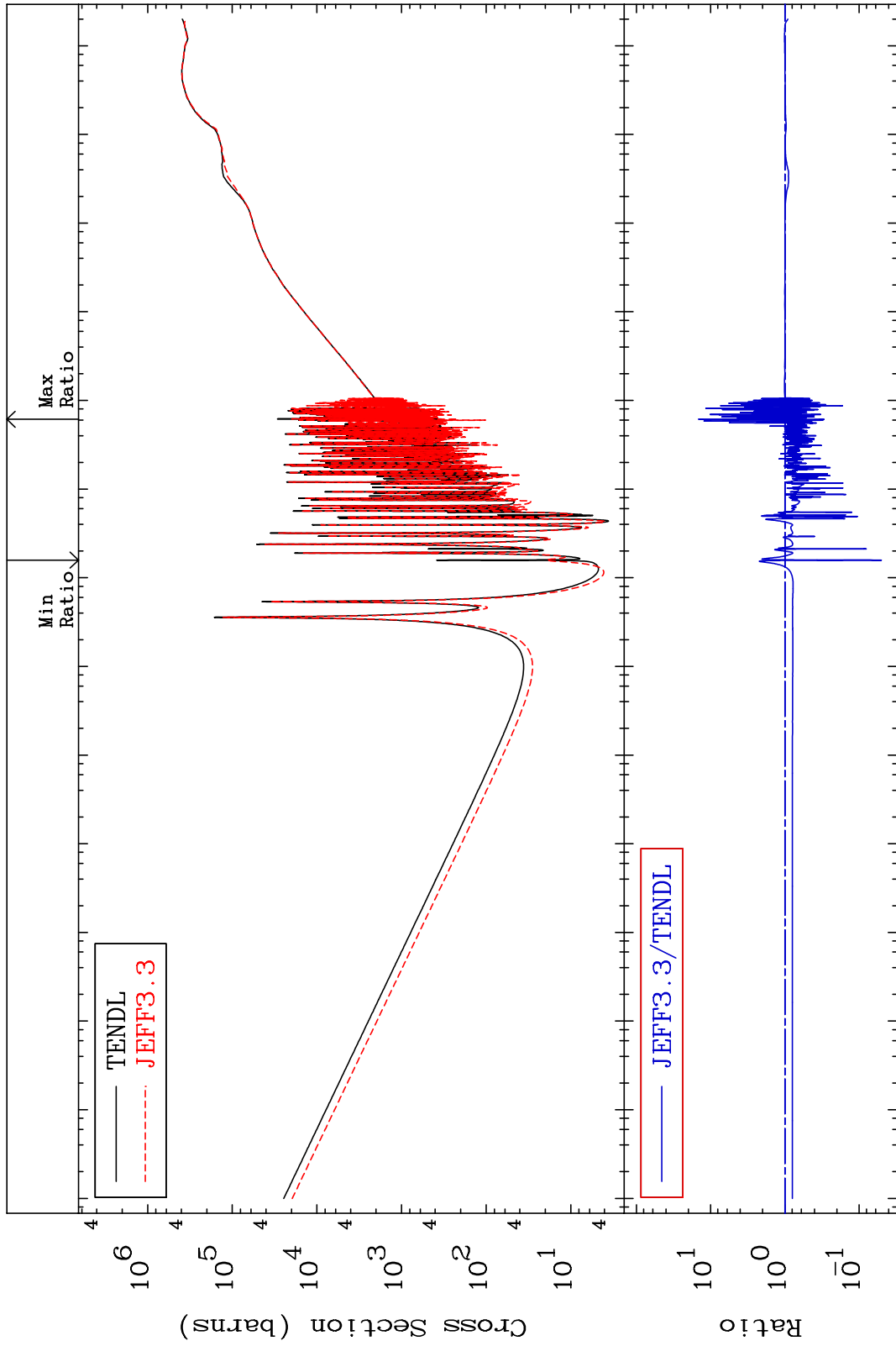
MAT 3525

Dpa total (eV-barns)

35-Br-79

-95.00 To 1365. %

Cross Section



75

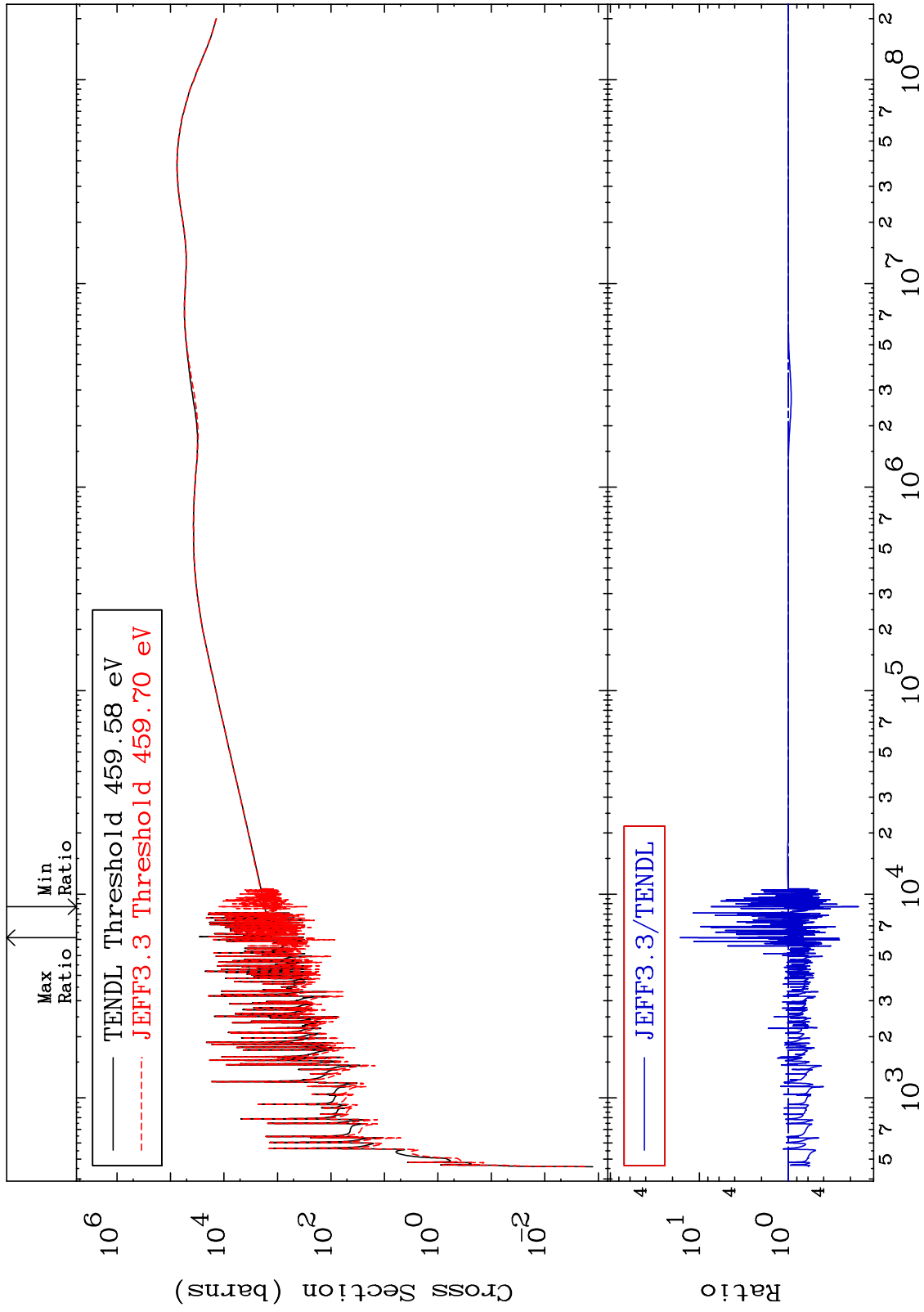
Incident Energy (eV)

35-Br-79

MAT 3525

Dpa elastic (mt2)  
Cross Section

35-Br-79  
-83.70 To 1548. %



76

Incident Energy (eV)

35-Br-79

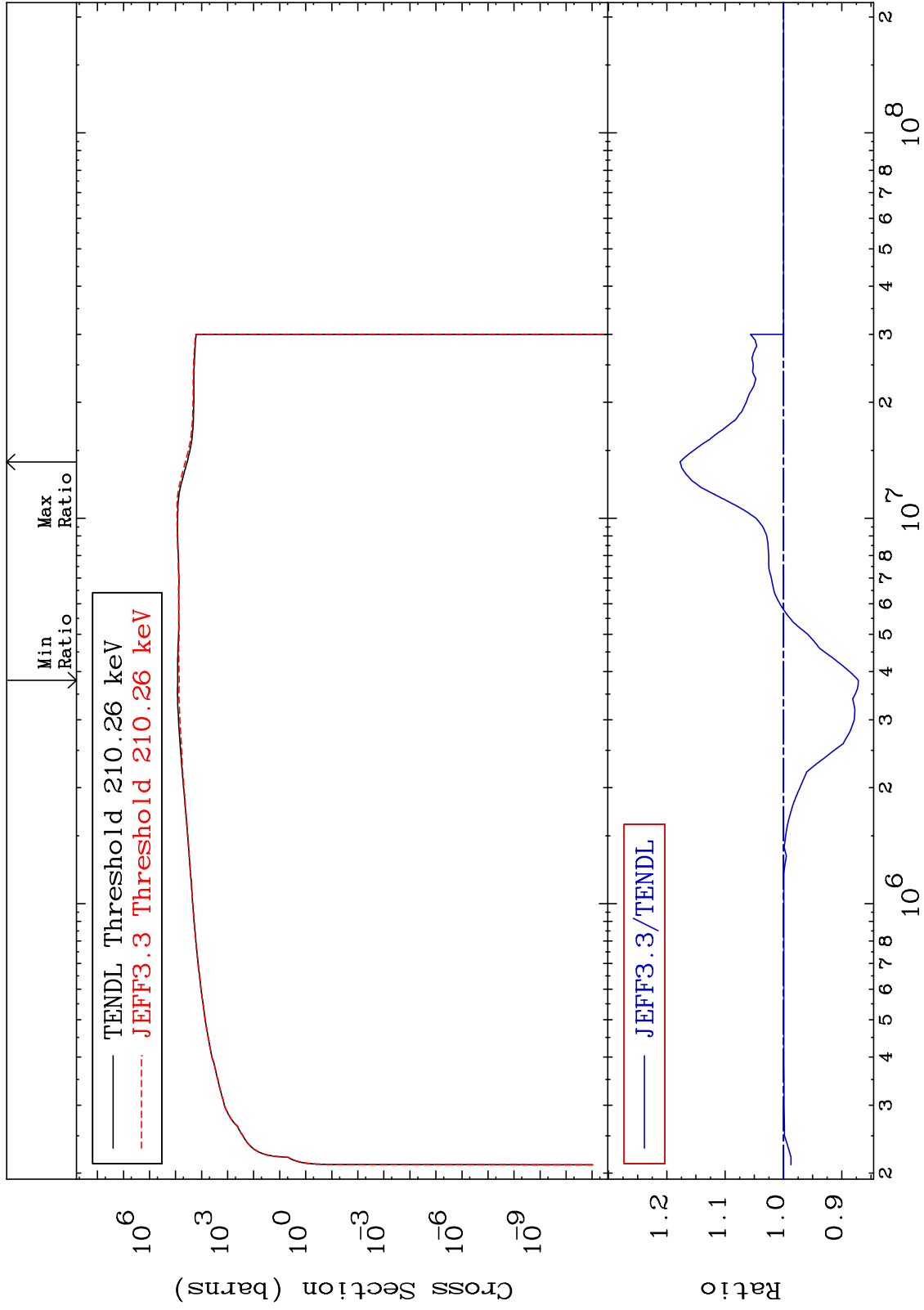
MAT 3525

Dpa inelastic (mt51-91)

35-Br-79

-12.84 To 17.73 %

Cross Section



77

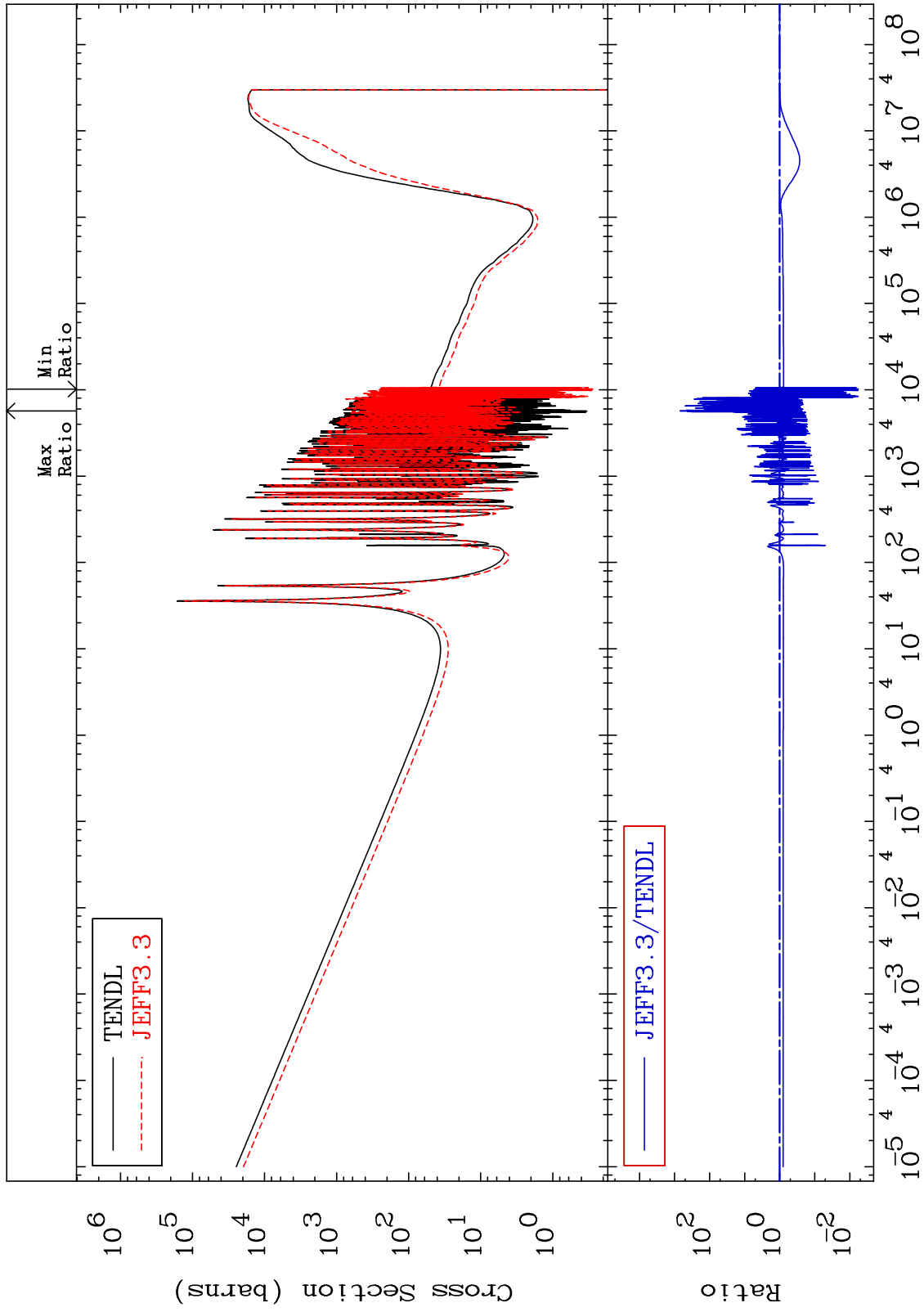
Incident Energy (eV)

35-Br-79

MAT 3525

Dpa disappearance (mt102 -120)  
Cross Section

35-Br-79  
-99.43 To 9999. %



78

Incident Energy (eV)

35-Br-79

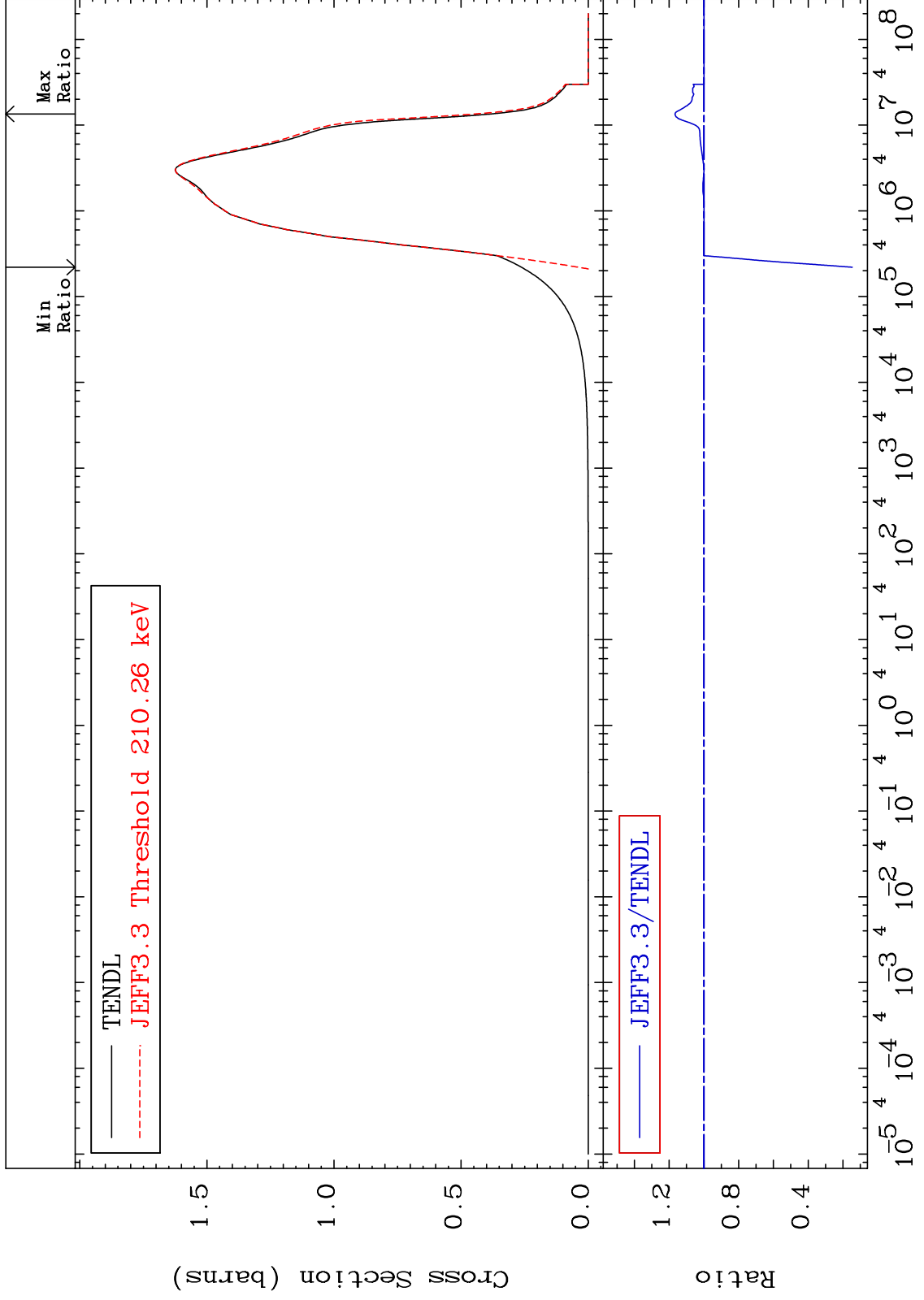
MAT 3525

Inelastic: 35-Br-79g

35-Br-79

Radionuclide Production Cross Section

-85.39 To 16.62 %



79

Incident Energy (eV)

35-Br-79

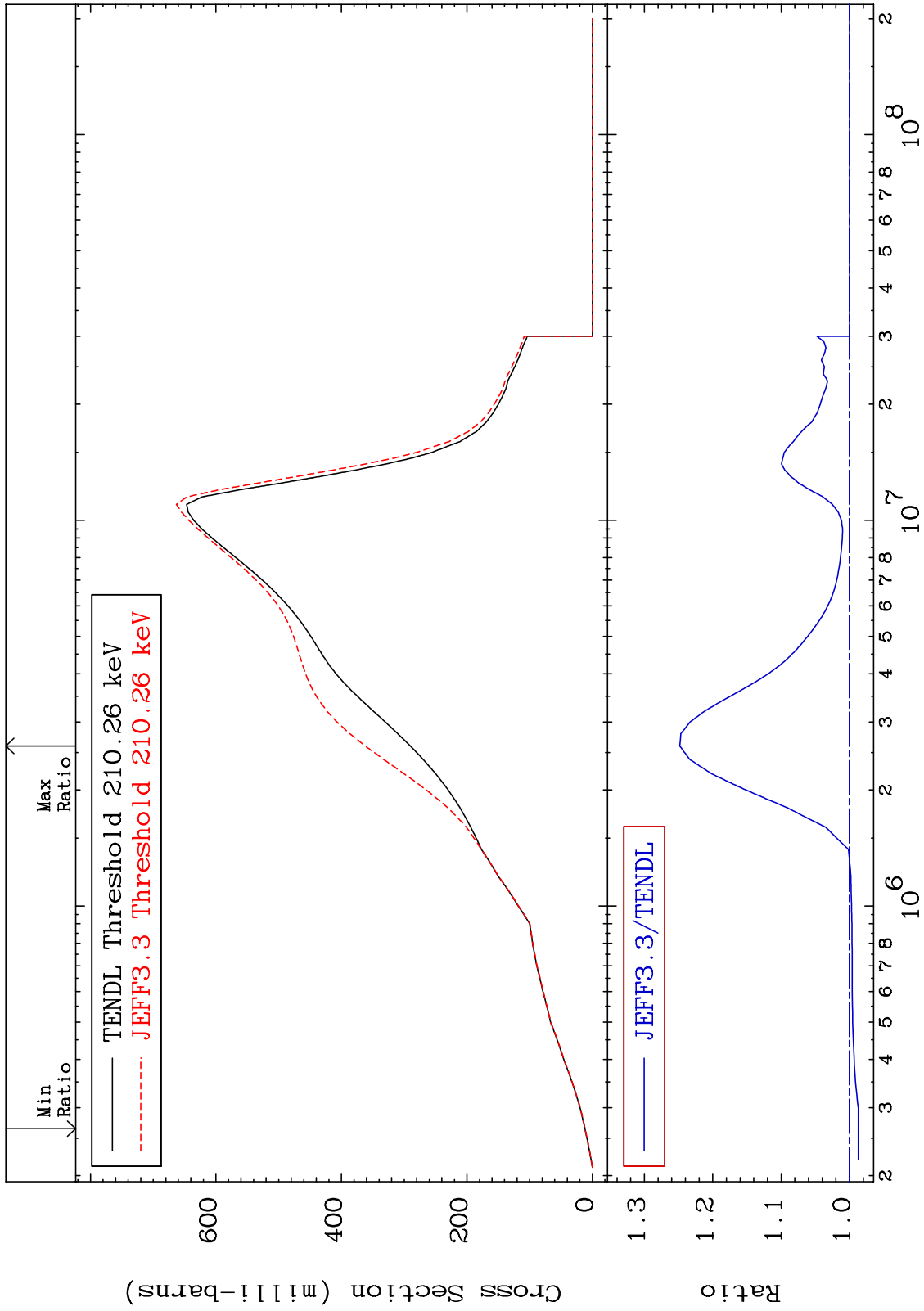


MAT 3525

Inelastic: 35-Br-79m1

35-Br-79

Radionuclide Production Cross Section -1.285 To 24.82 %



80

Incident Energy (eV)

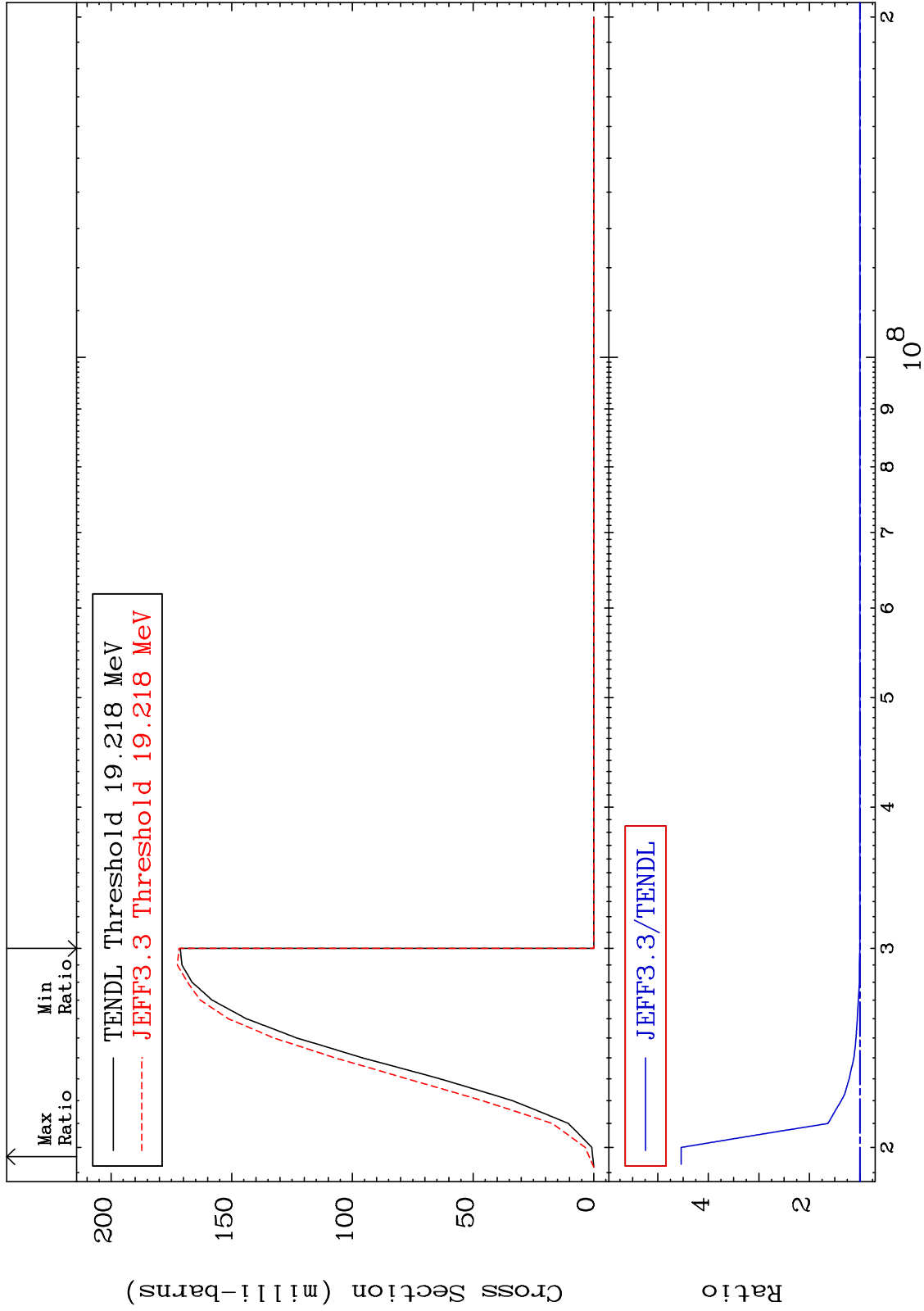
35-Br-79

MAT 3525

35-Br-79

(n,3n):35-Br-77g

Radionuclide Production Cross Section 0.000 To 353.7 %

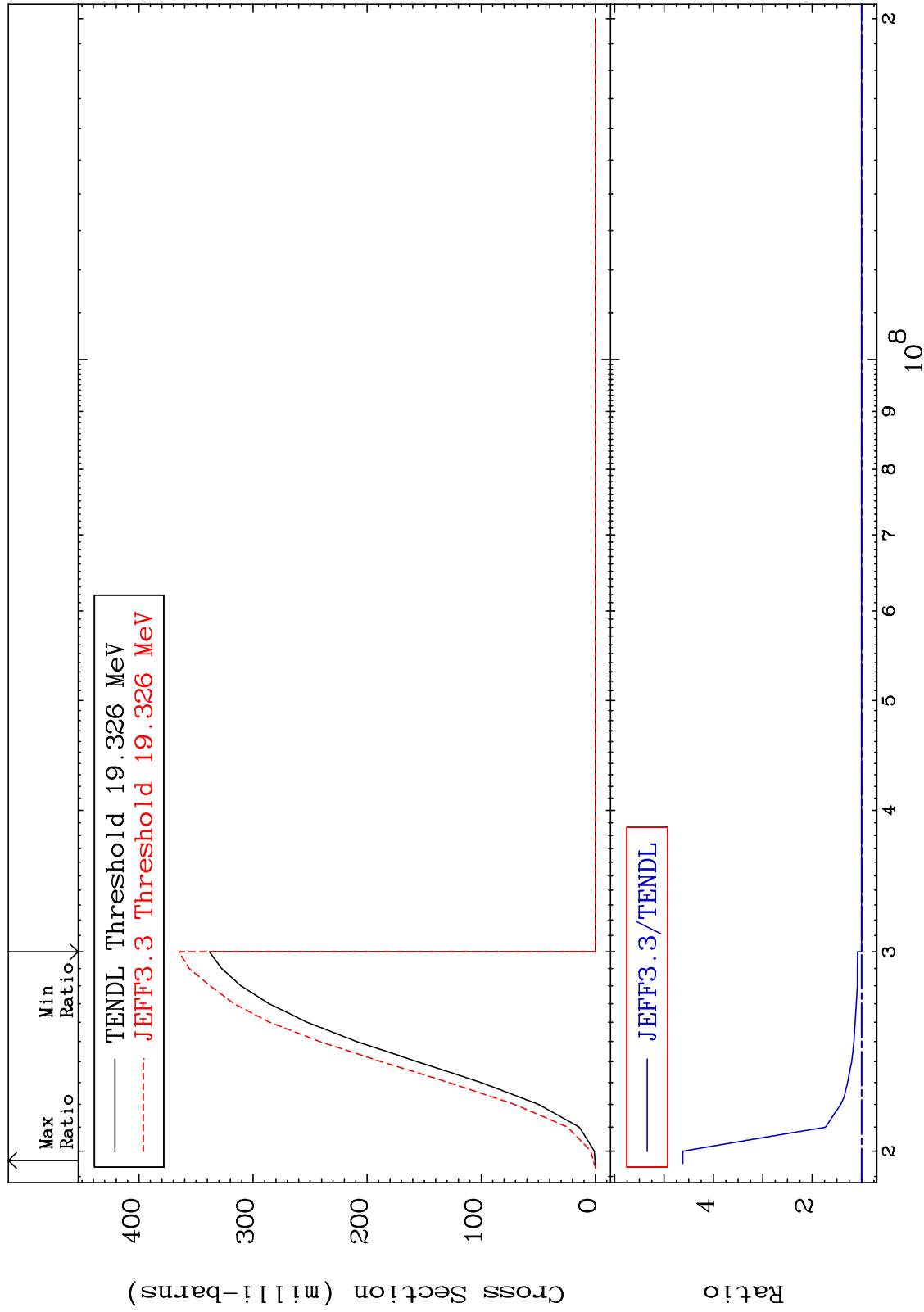


MAT 3525

(n,3n):35-Br-77m1

35-Br-79

Radionuclide Production Cross Section 0.000 To 362.0 %



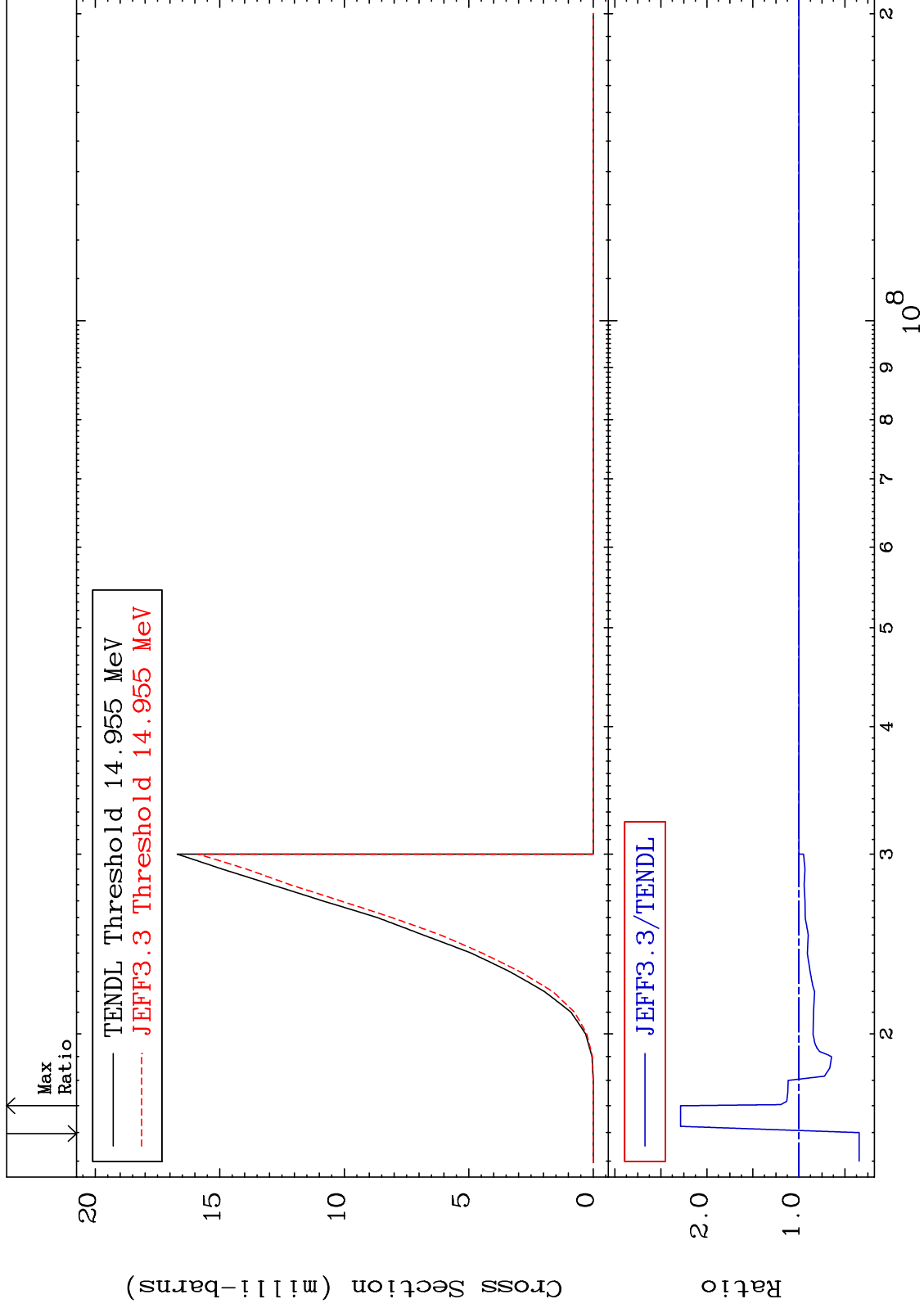


MAT 3525

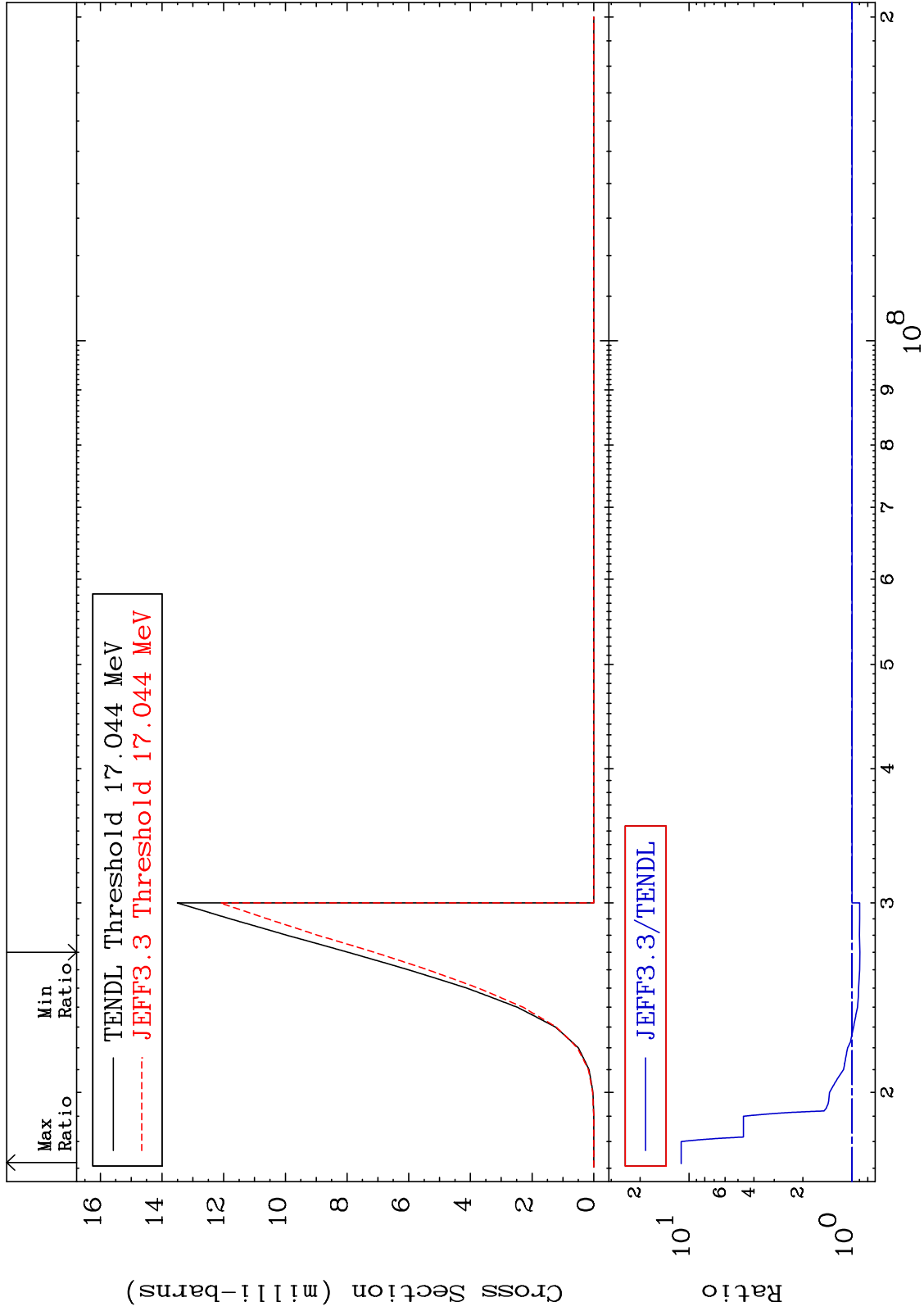
(n, n') d:34-Se-77m1

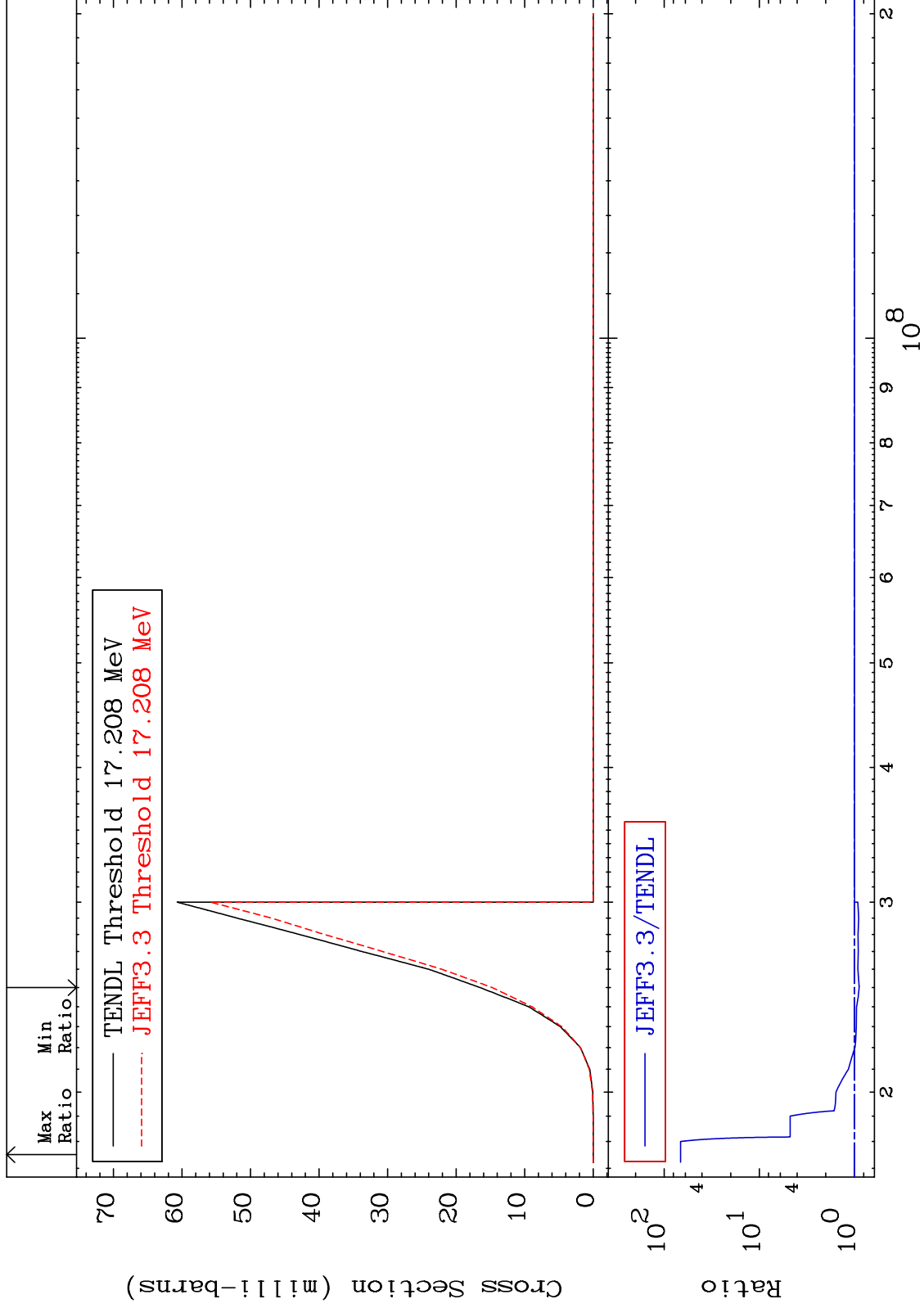
35-Br-79

Radionuclide Production Cross Section -65.49 To 128.5 %



Radionuclide Production Cross Section -10.70 To 1016. %



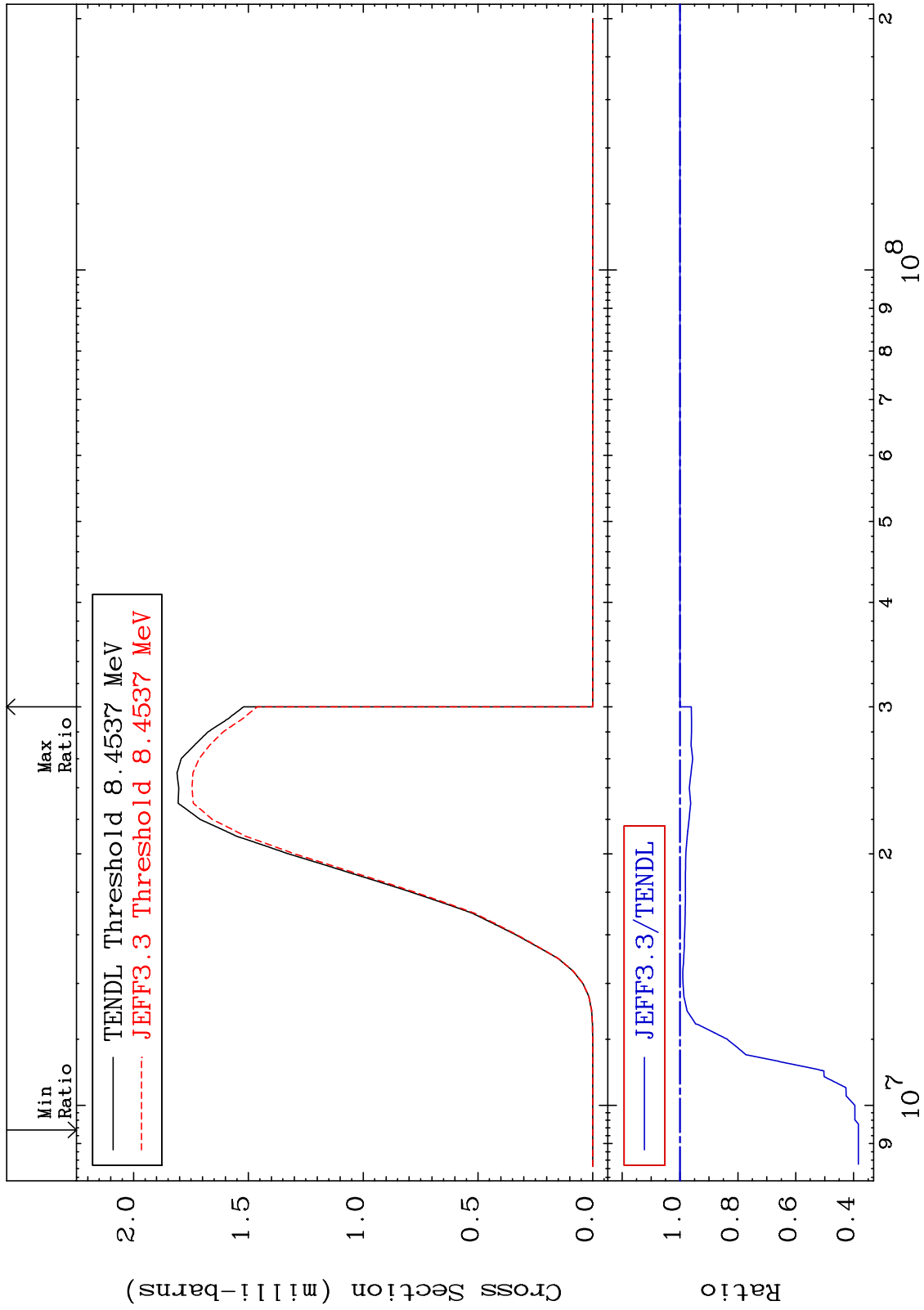


MAT 3525

(n, t) : 34-Se-77g

35-Br-79

Radionuclide Production Cross Section -61.65 To 0.000 %



87

Incident Energy (eV)

35-Br-79

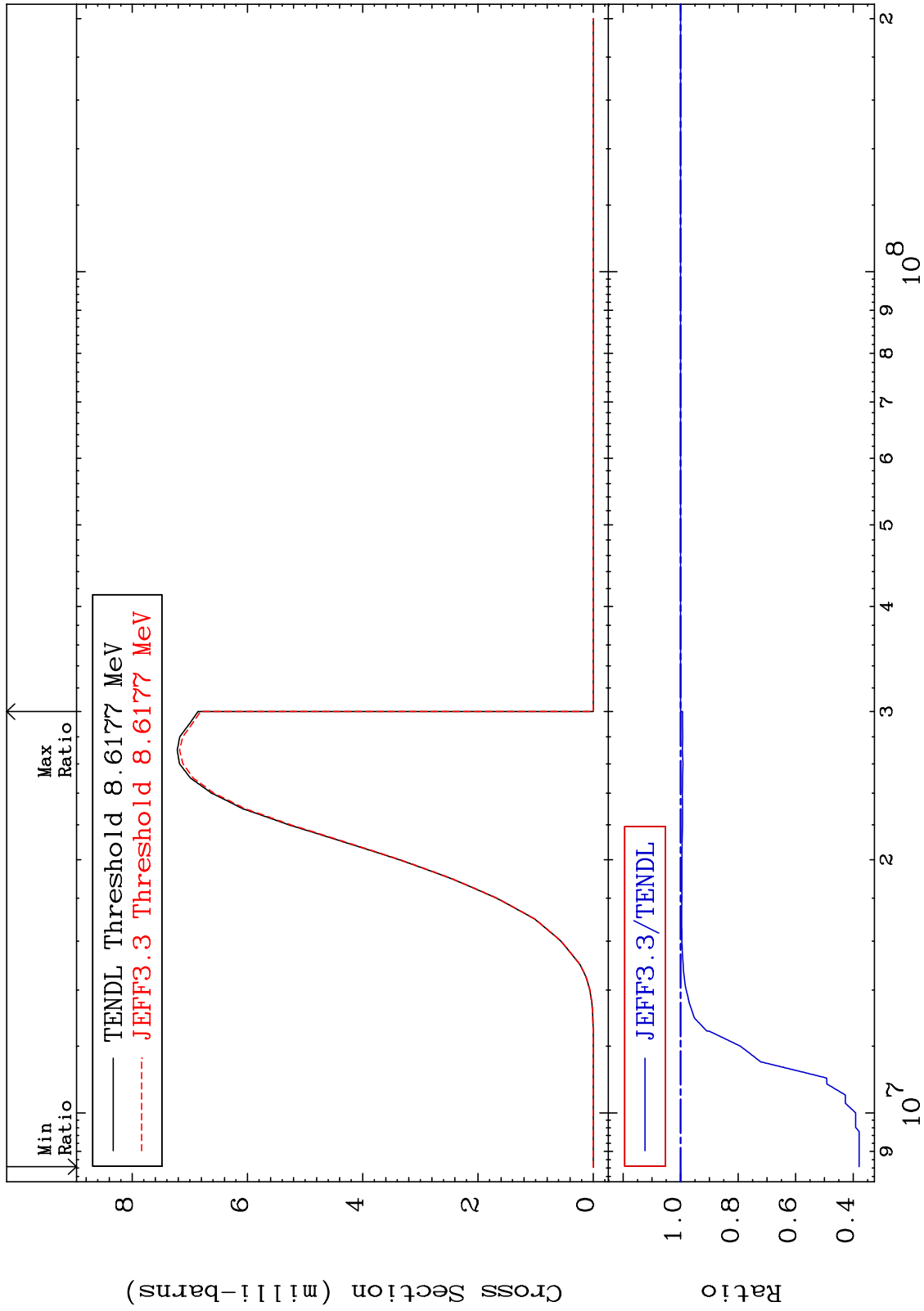


MAT 3525

(n, t):34-Se-77m1

35-Br-79

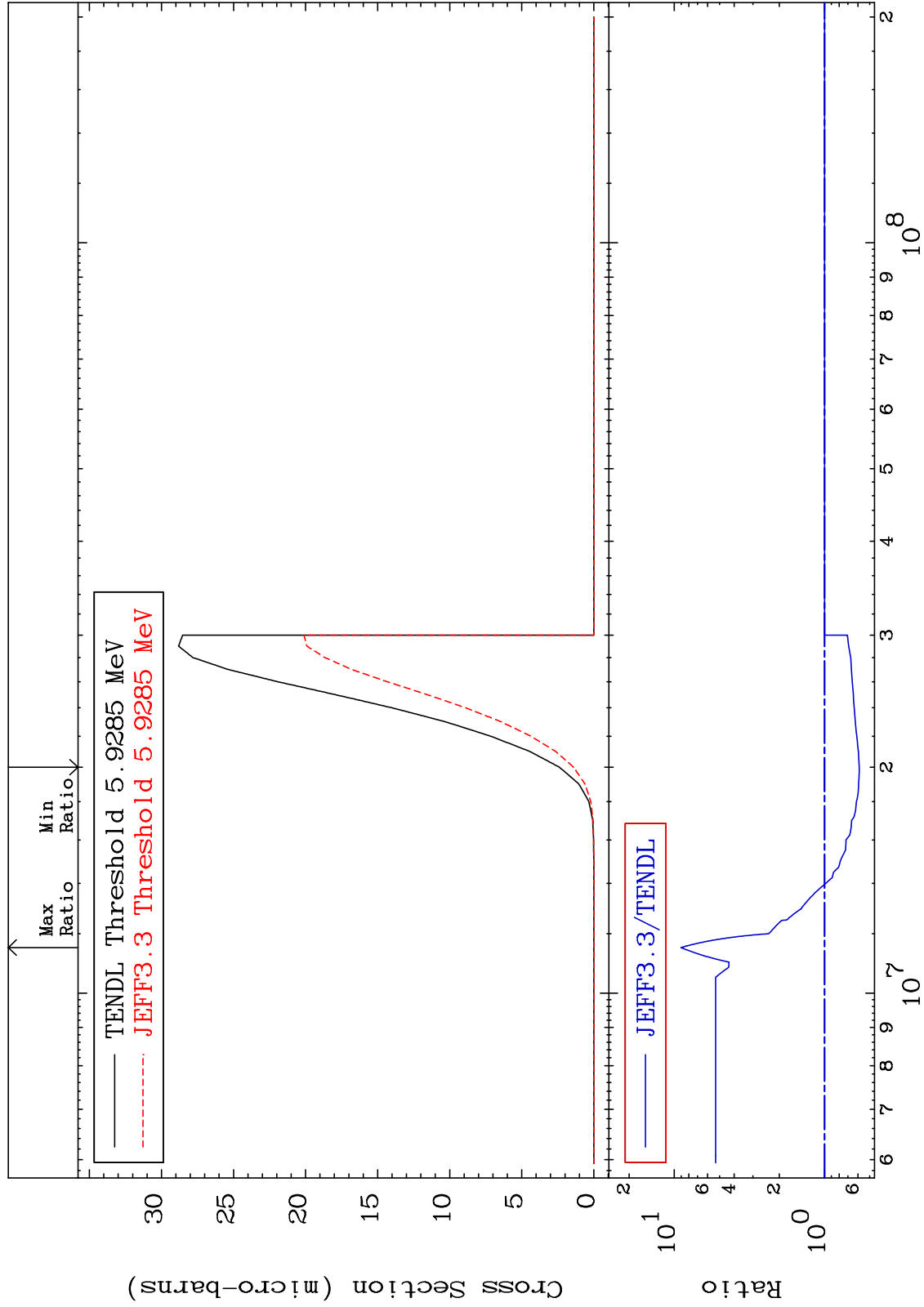
Radionuclide Production Cross Section -62.07 To 0.000 %



88

Incident Energy (eV)

35-Br-79

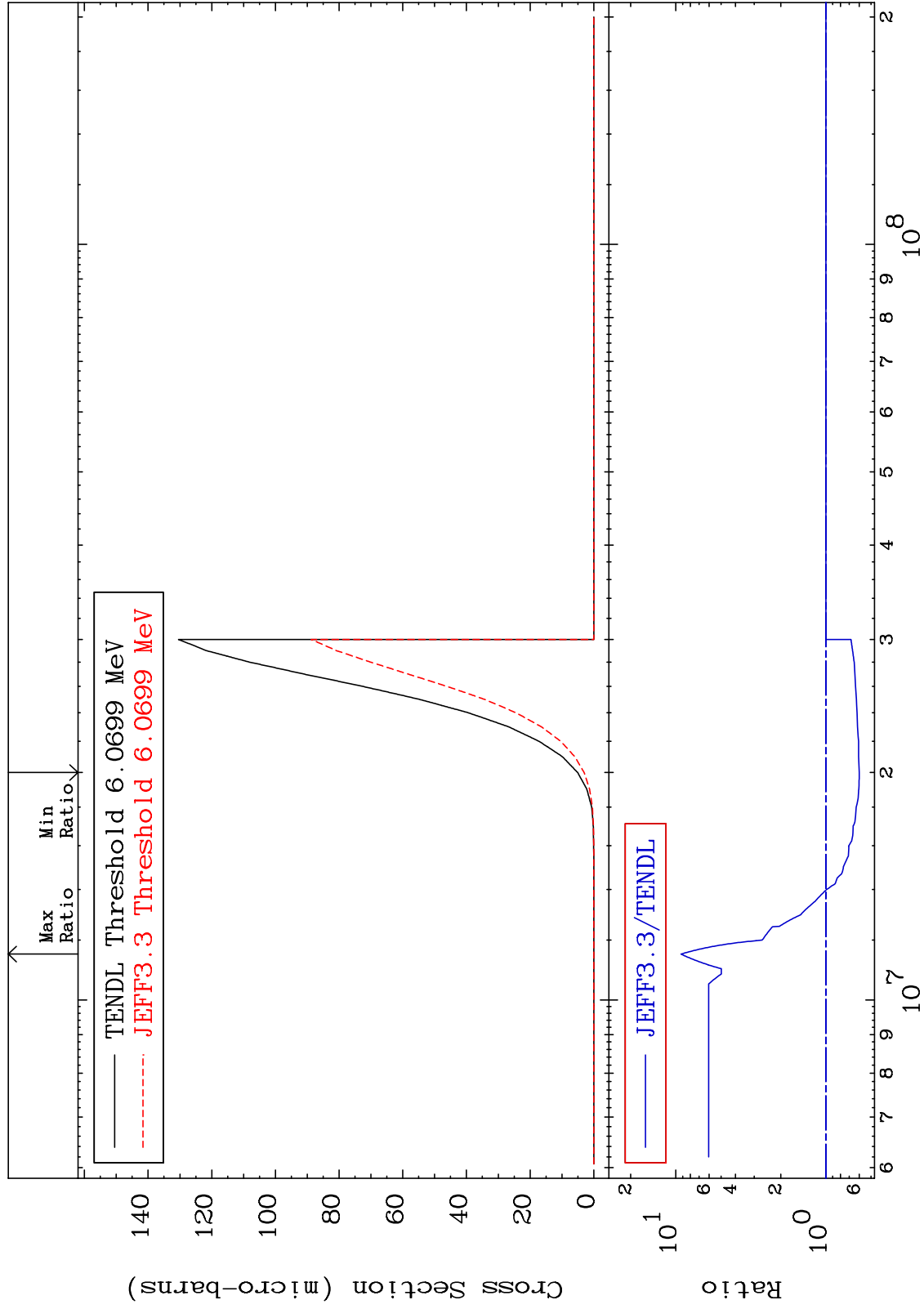


MAT 3525

(n, p)  $\alpha$ : 32-Ge-75m2

35-Br-79

Radionuclide Production Cross Section -40.10 To 823.0 %



90

Incident Energy (eV)

35-Br-79