

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  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

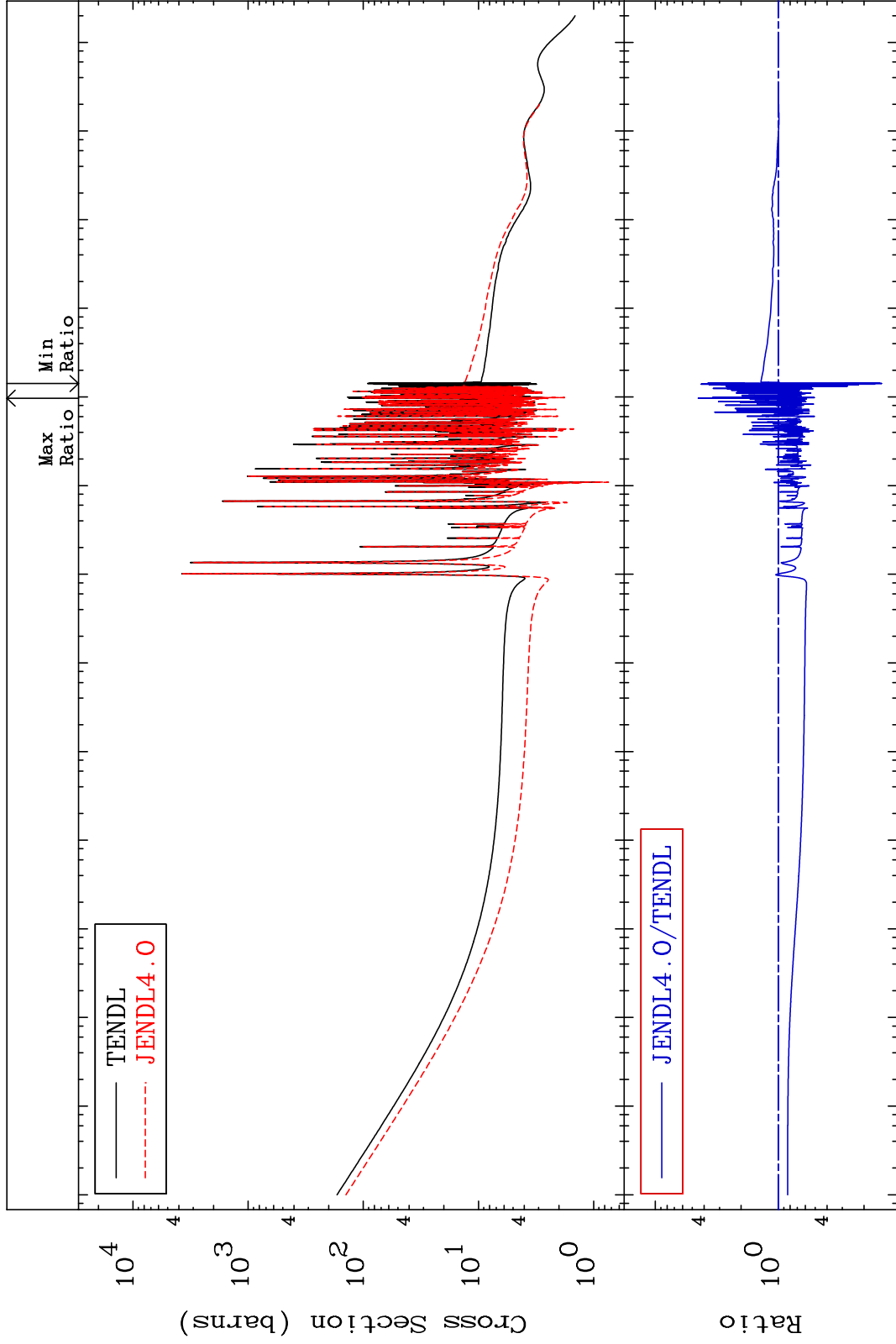
MAT 3531

Total

35-Br-81

Cross Section

-85.59 To 346.0 %



1

Incident Energy (eV)

35-Br-81

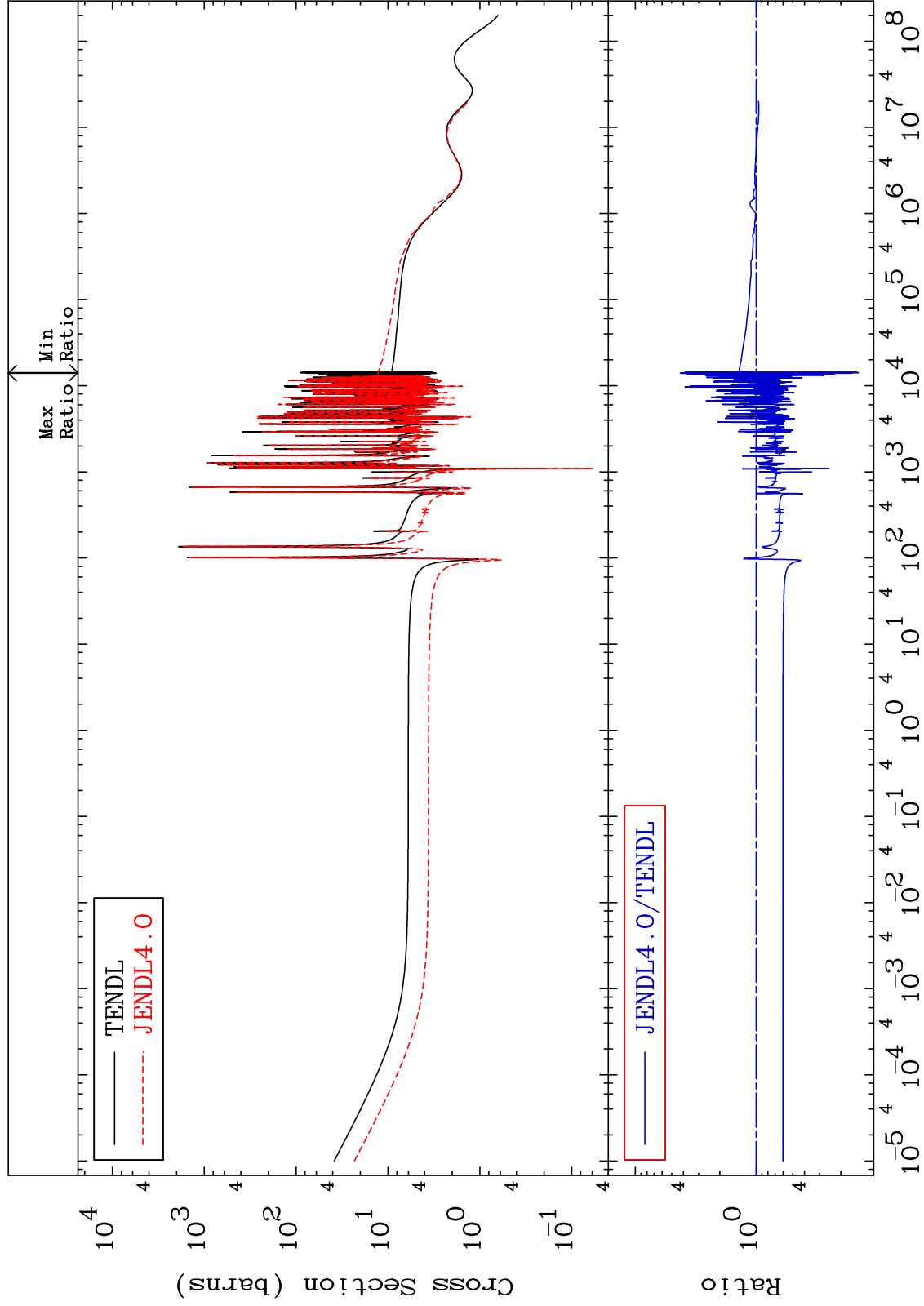
MAT 3531

Elastic

Cross Section

35-Br-81

-85.74 To 323.8 %



Incident Energy (eV)

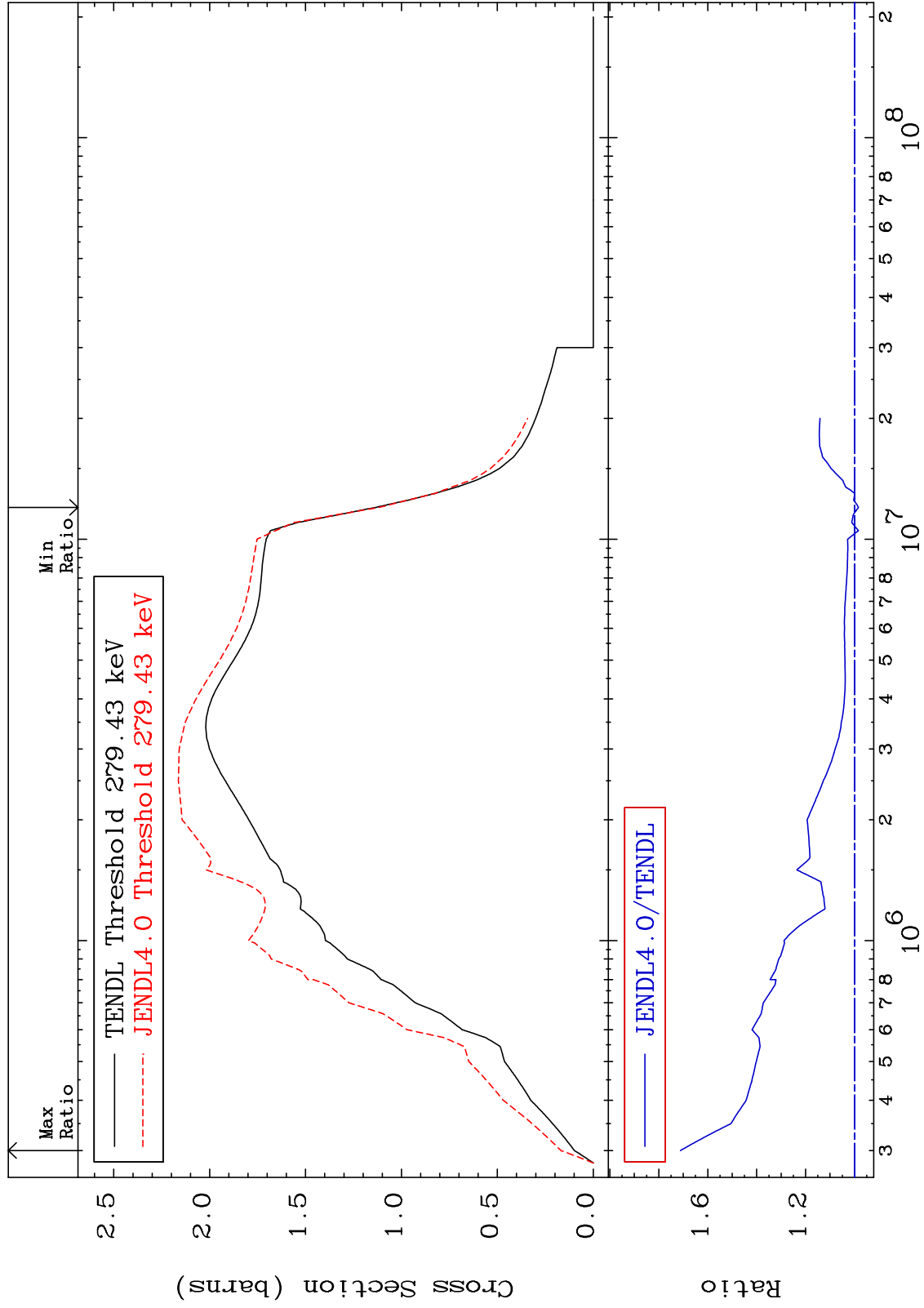
35-Br-81

2

MAT 3531

Inelastic  
Cross Section

35-Br-81  
-1.634 To 71.14 %



3

Incident Energy (eV)

35-Br-81

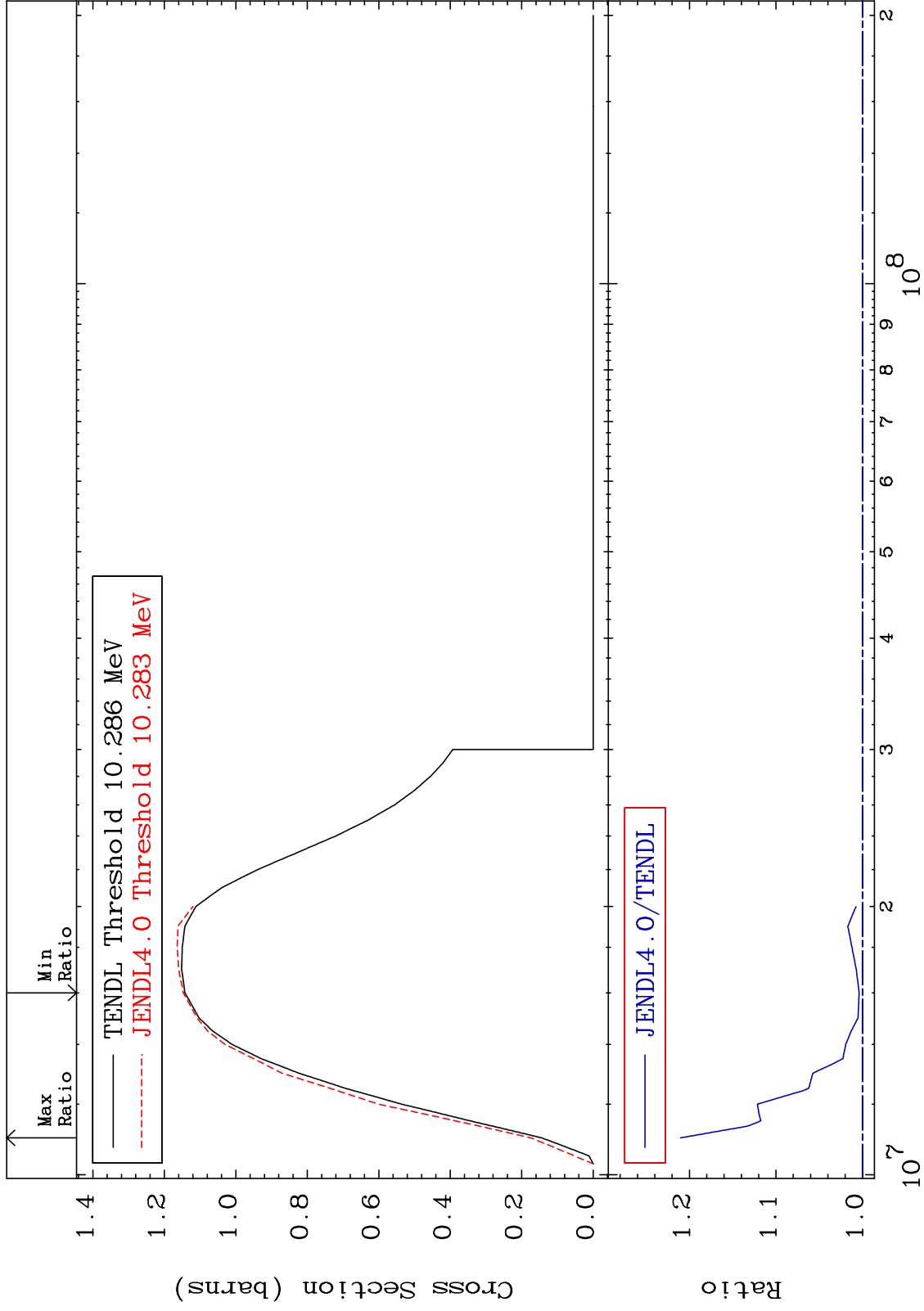
MAT 3531

(n,2n)

35-Br-81

Cross Section

0.390 To 21.02 %



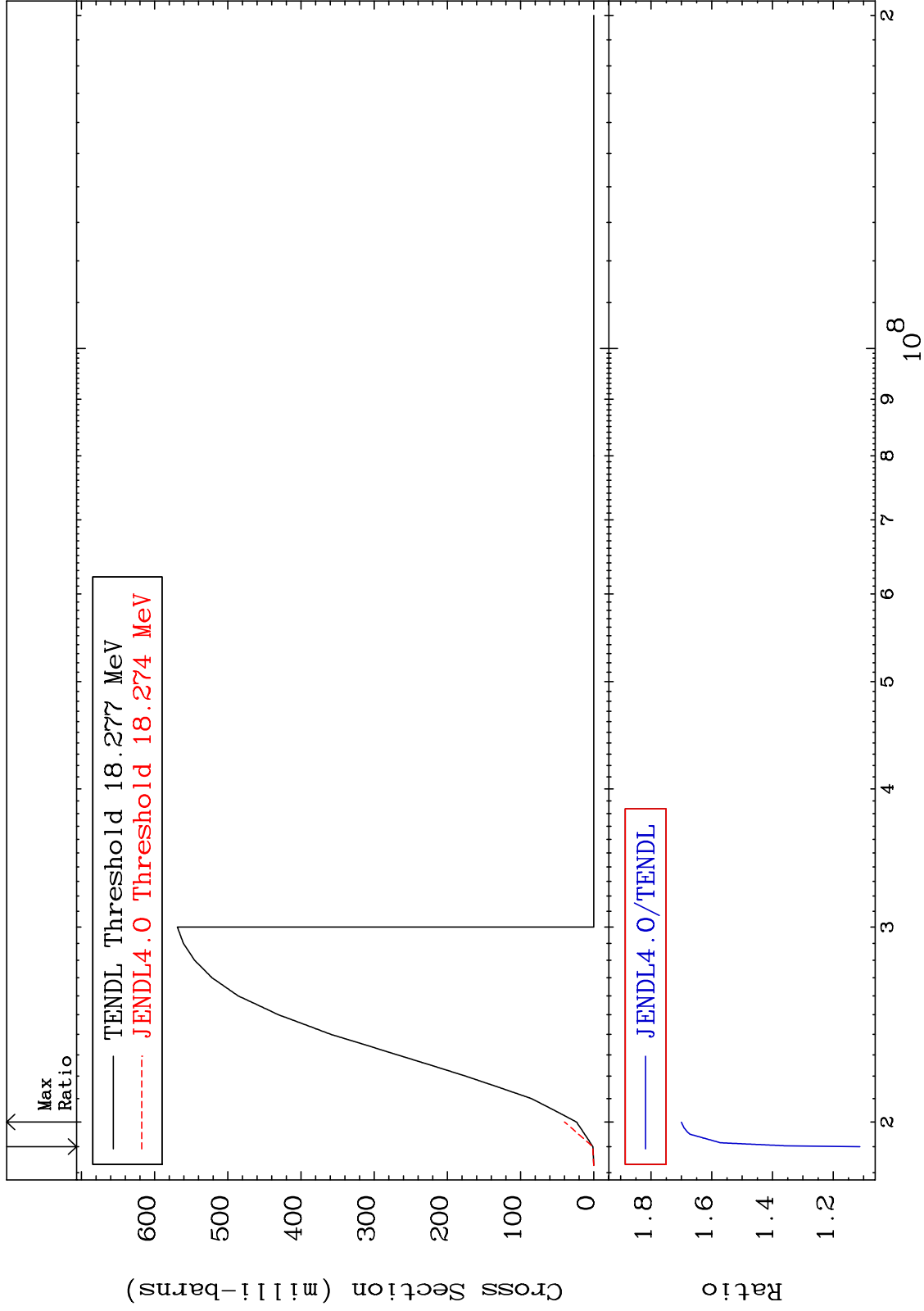
MAT 3531

(n, 3n)

35-Br-81

Cross Section

11.22 To 70.07 %



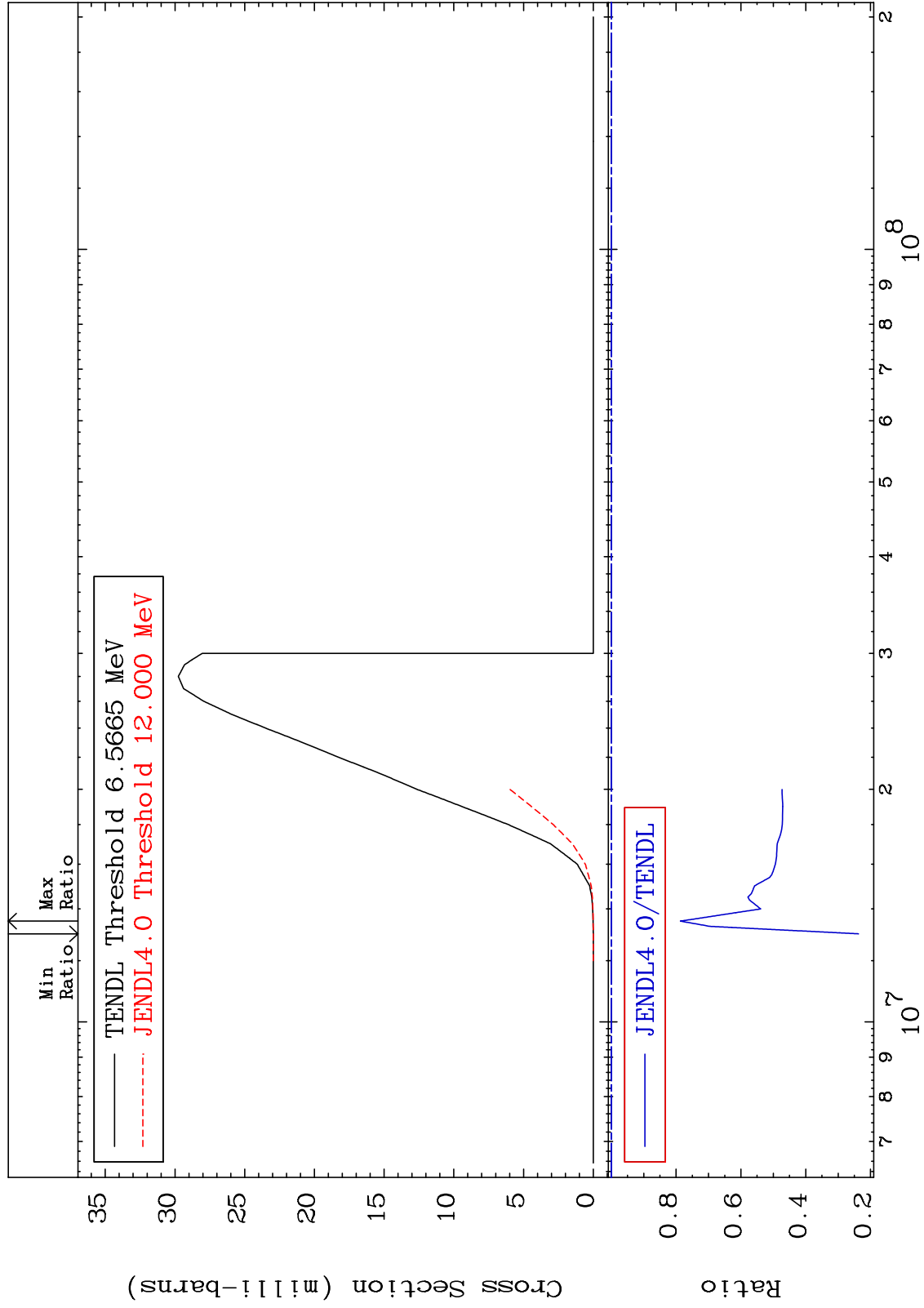
MAT 3531

(n,n')  $\alpha$

35-Br-81

-76.29 To -21.34%

Cross Section



6

35-Br-81

35-Br-81

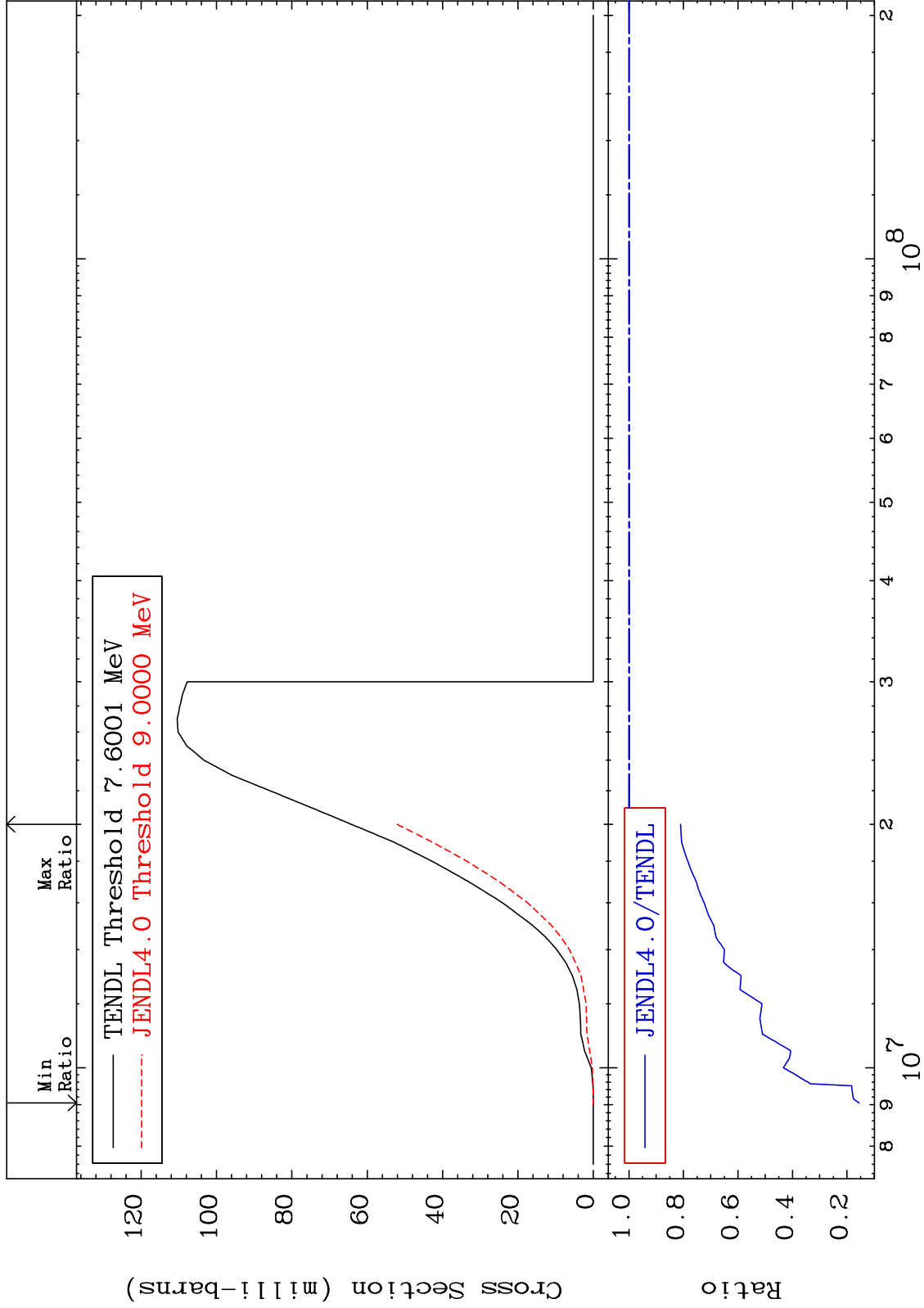
MAT 3531

(n,n') p

35-Br-81

Cross Section

-84.48 To -18.96%



7

Incident Energy (eV)

35-Br-81



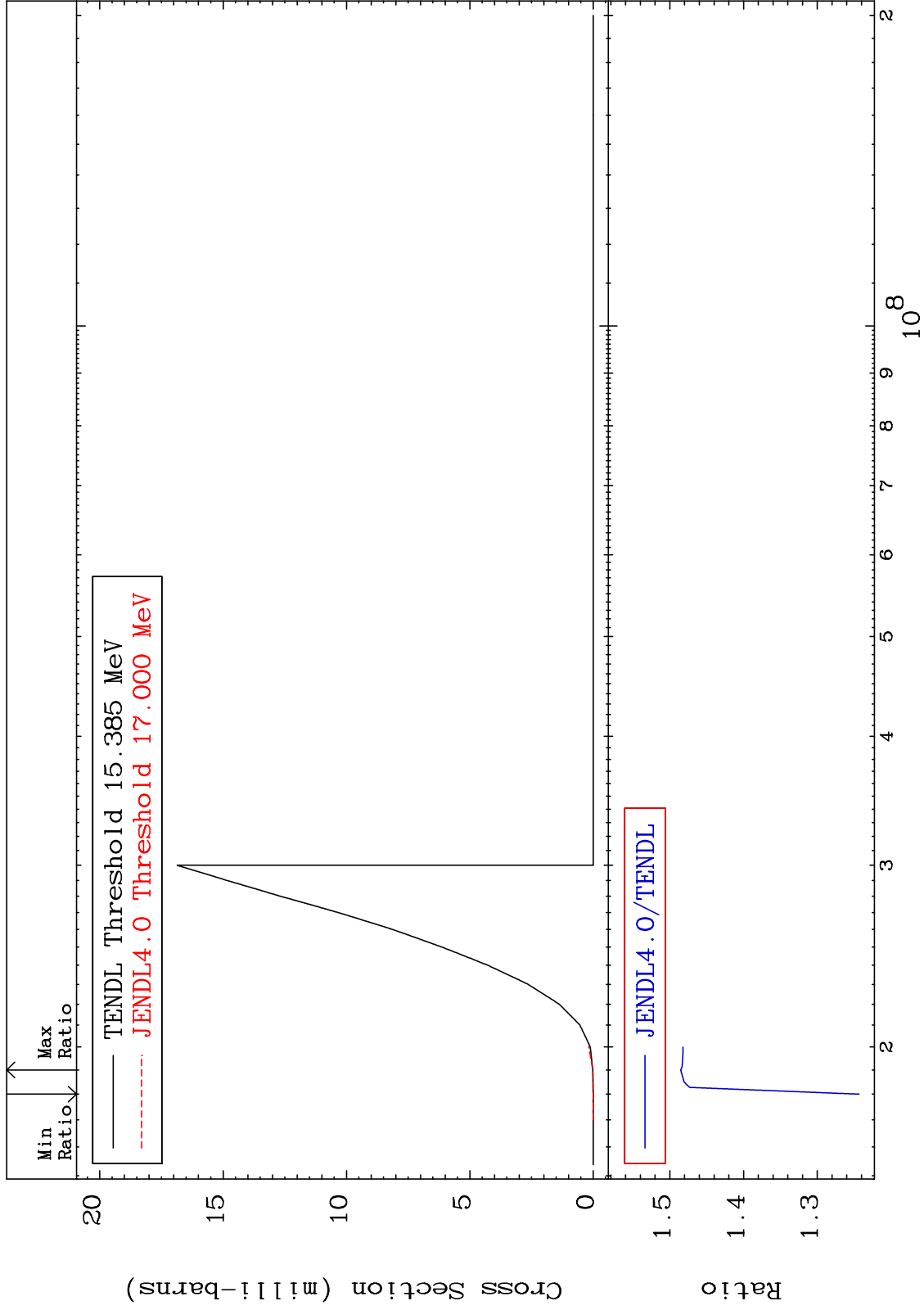
MAT 3531

(n,n') d

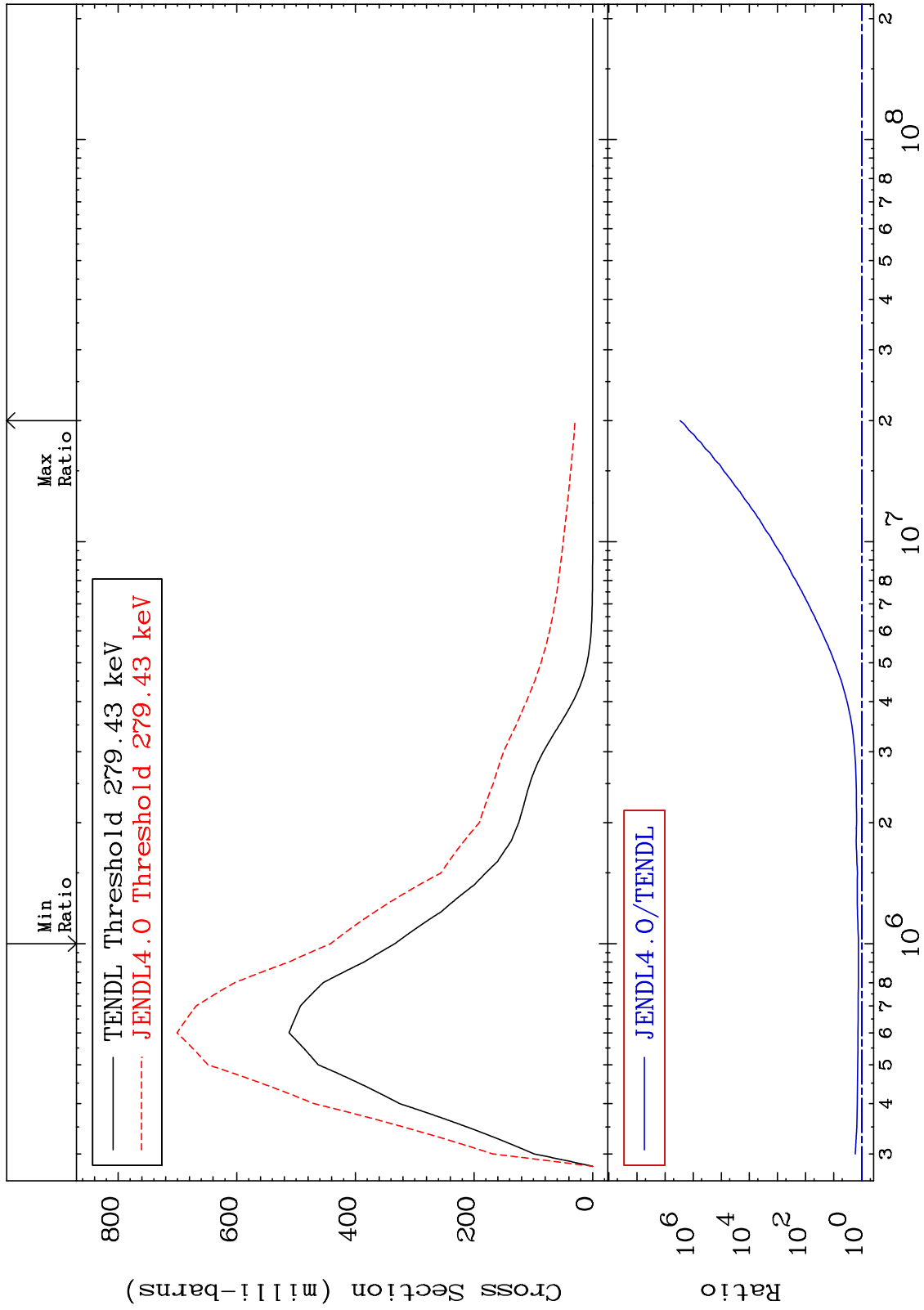
35-Br-81

Cross Section

24.32 To 48.54 %



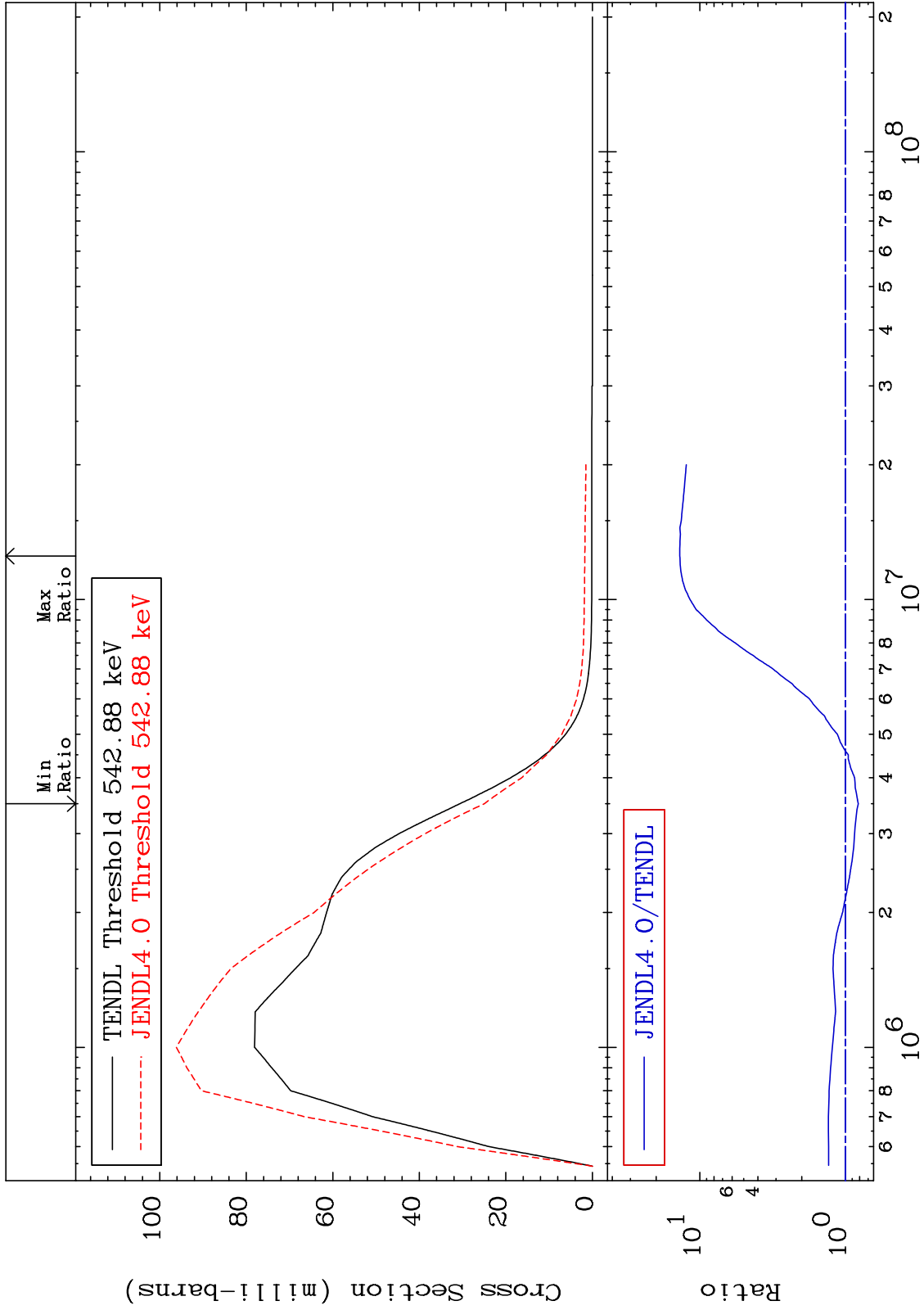
MAT 3531 MT= 51 (n,n') Level Cross Section 35-Br-81 32.51 To 9999. %



MAT 3531

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

35-Br-81  
-18.43 To 1274. %



10

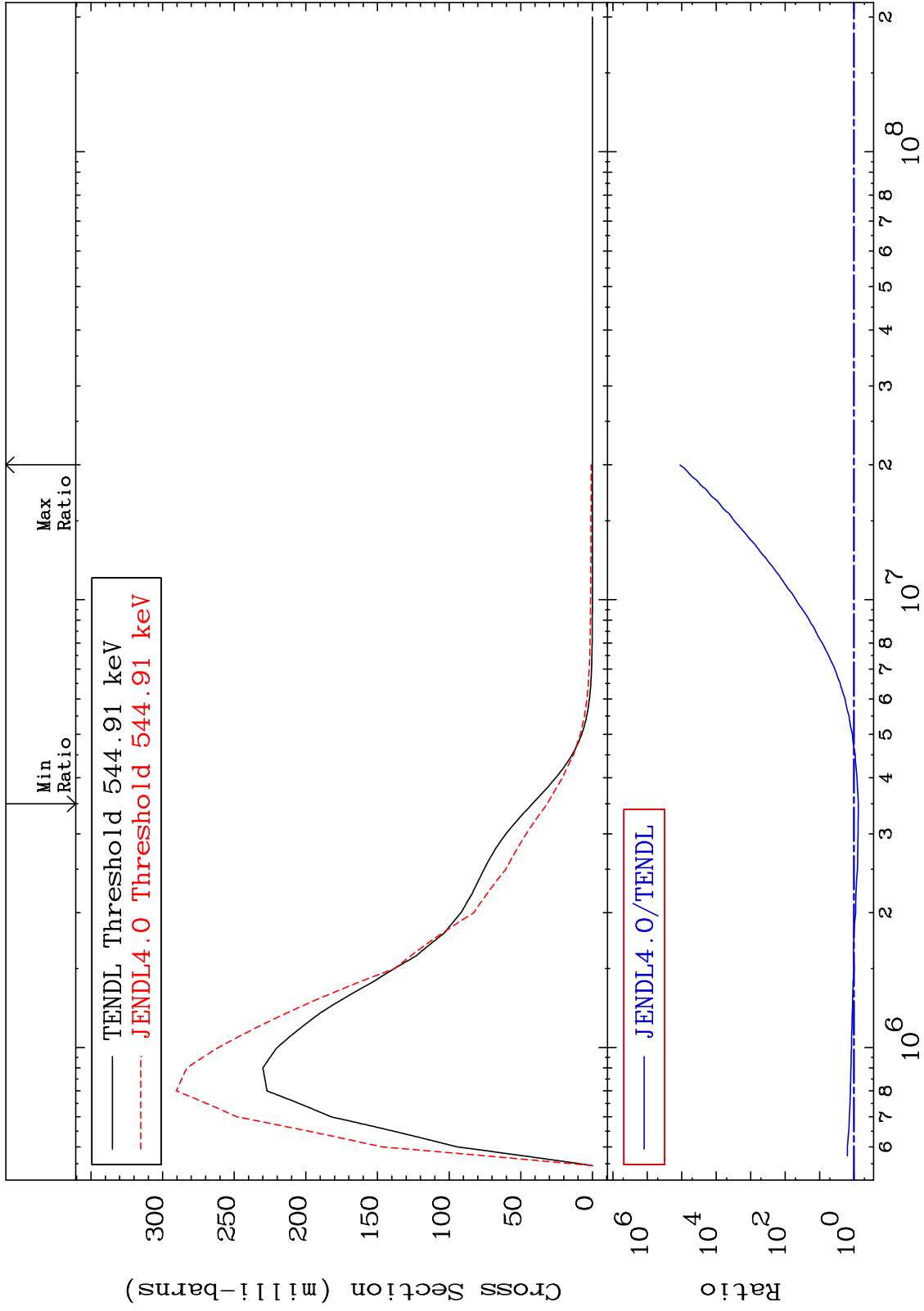
Incident Energy (eV)

35-Br-81

MAT 3531

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

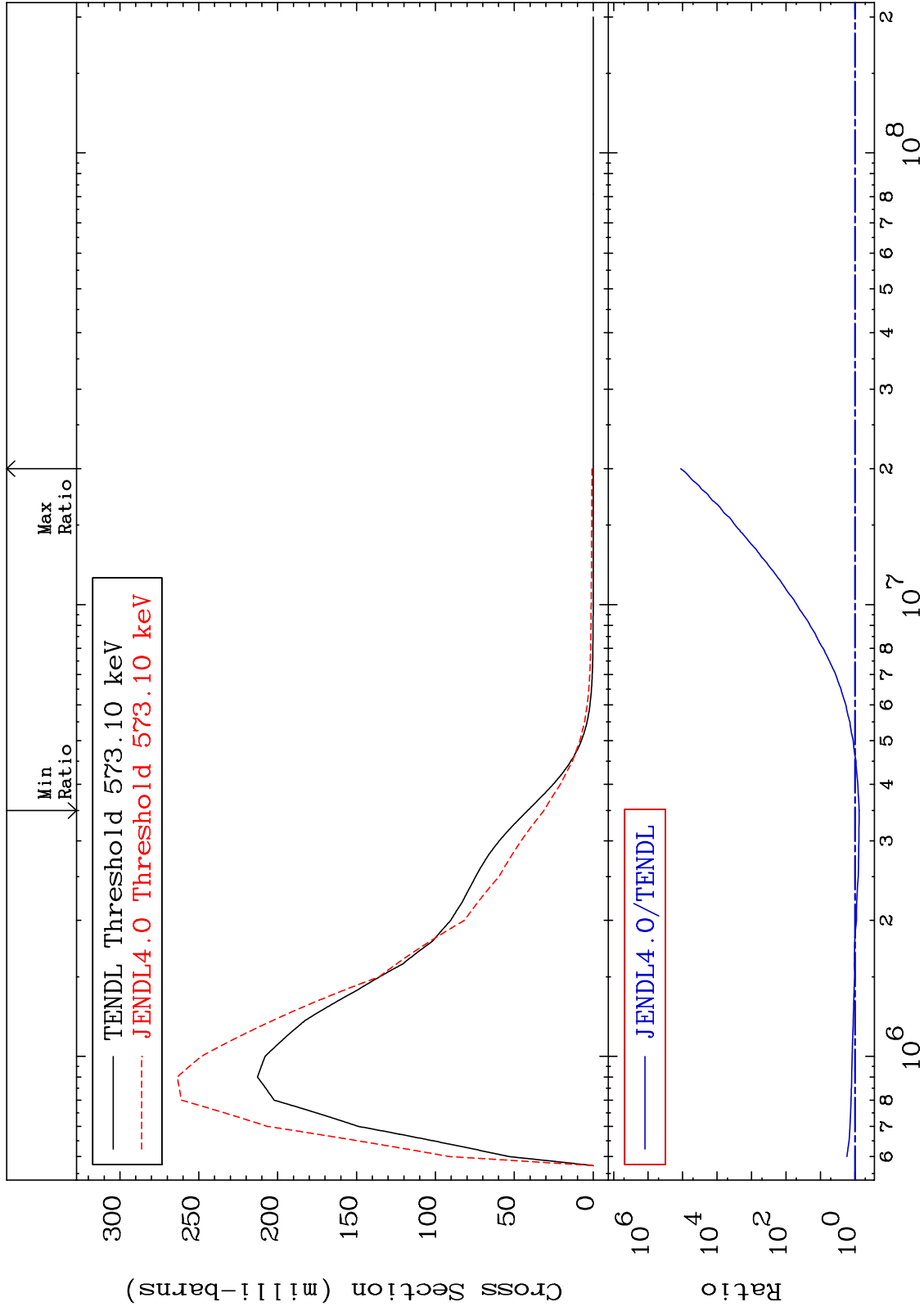
35-Br-81  
-25.01 To 9999. %



MAT 3531

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

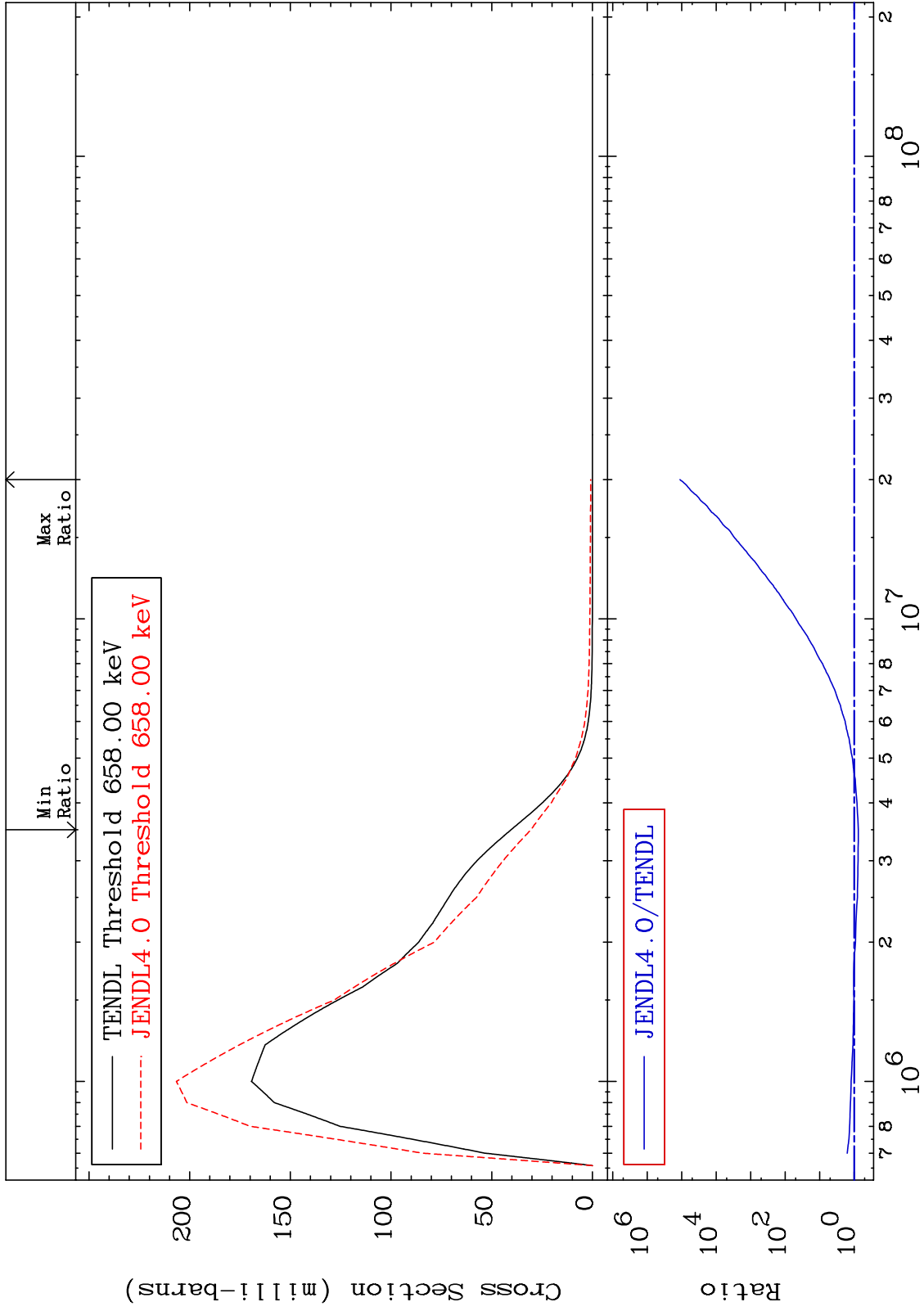
35-Br-81  
-24.88 To 9999. %



MAT 3531

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

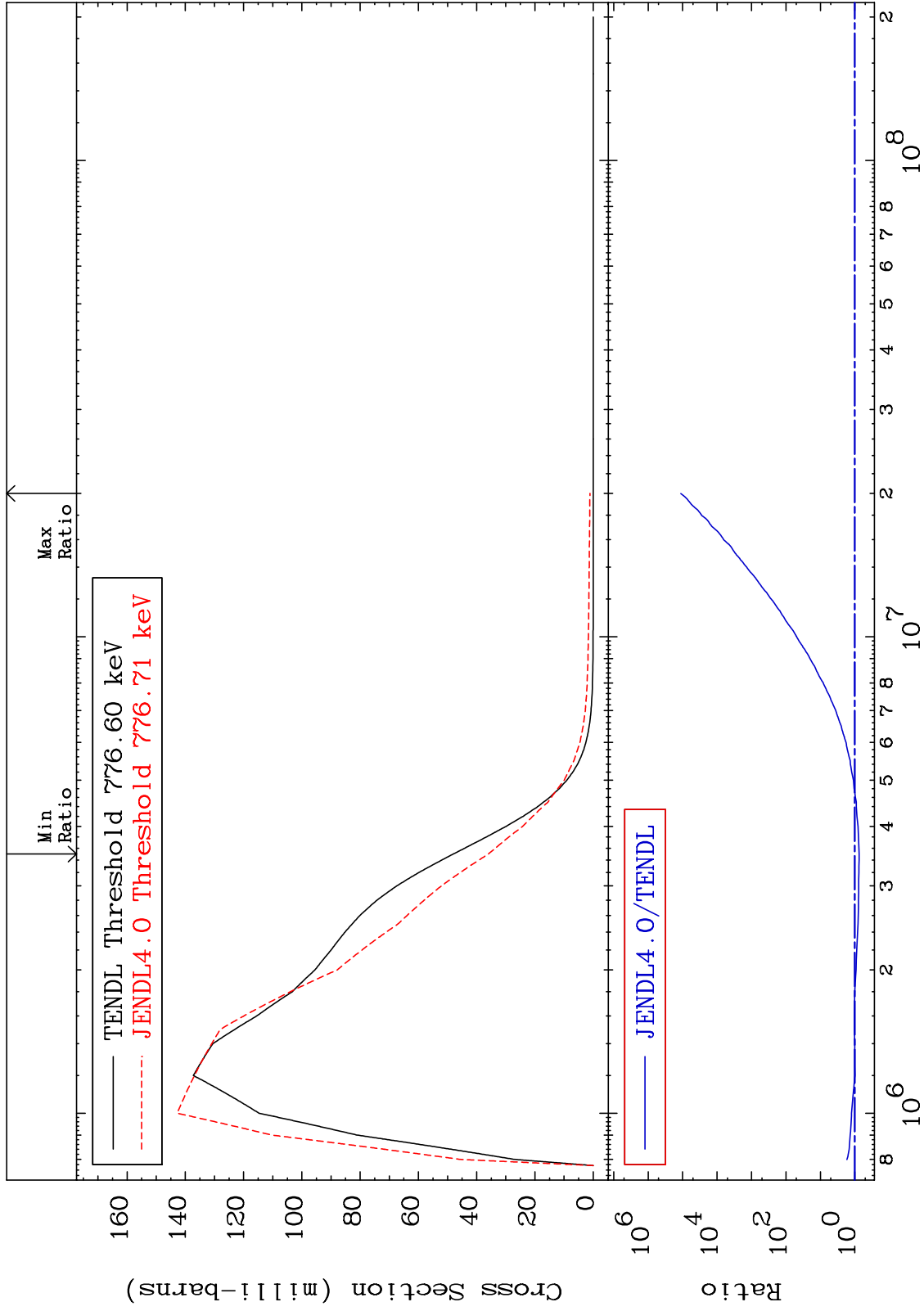
35-Br-81  
-24.42 To 9999. %



MAT 3531

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

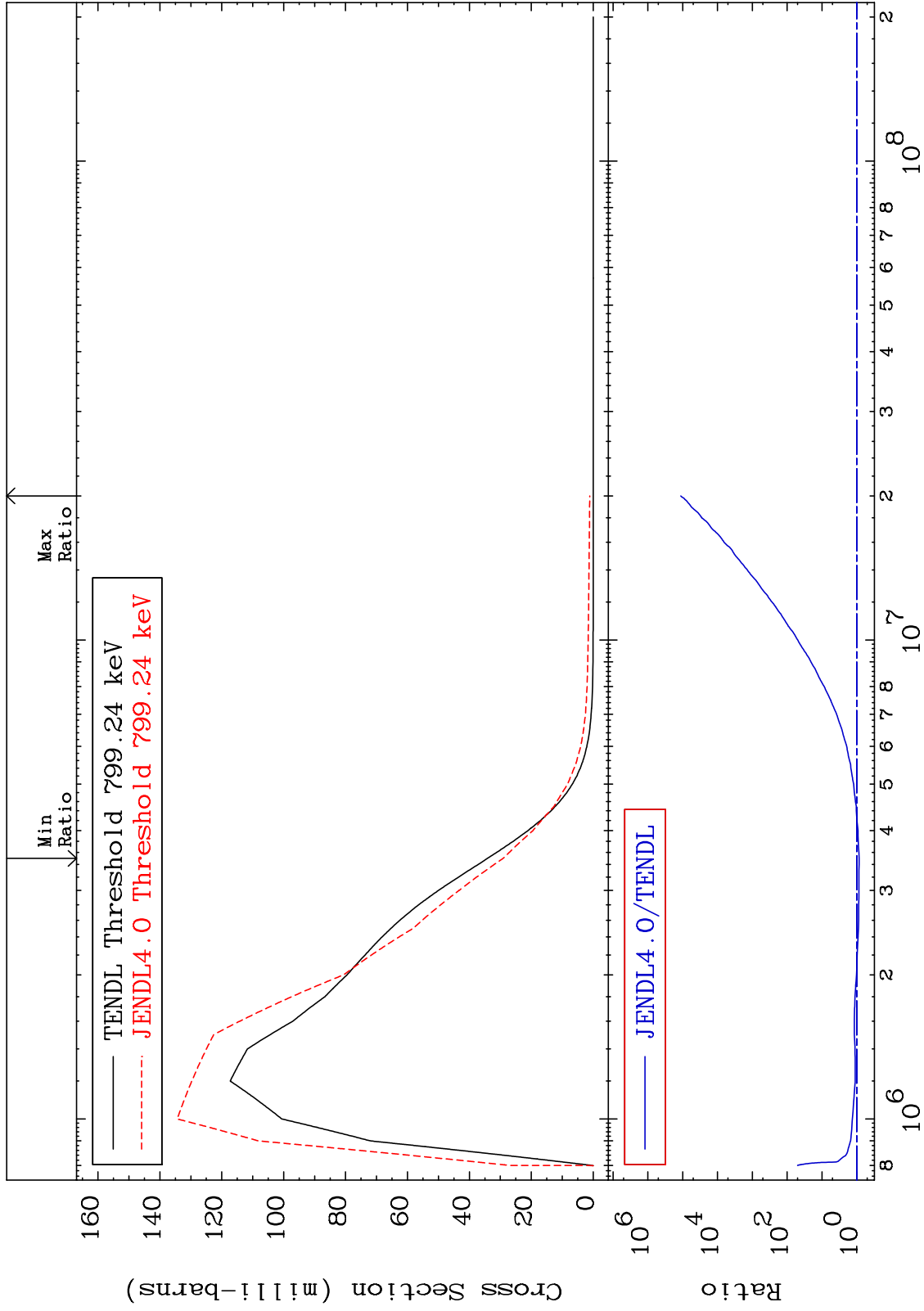
35-Br-81  
-25.10 To 9999. %



MAT 3531

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

35-Br-81  
-14.84 To 9999. %



15

Incident Energy (eV)

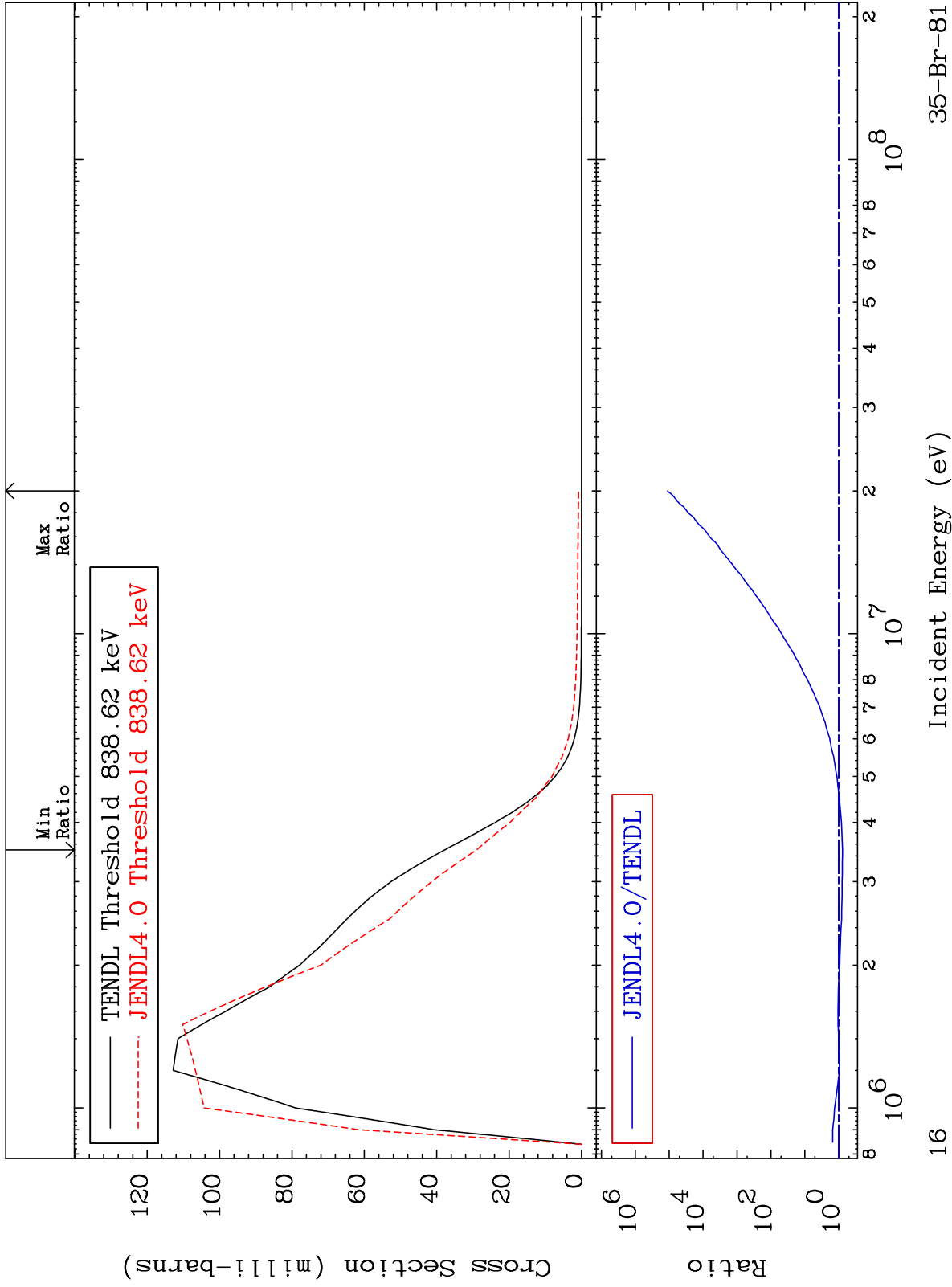
35-Br-81



MAT 3531

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

35-Br-81  
-23.33 To 9999. %



16

Incident Energy (eV)

35-Br-81

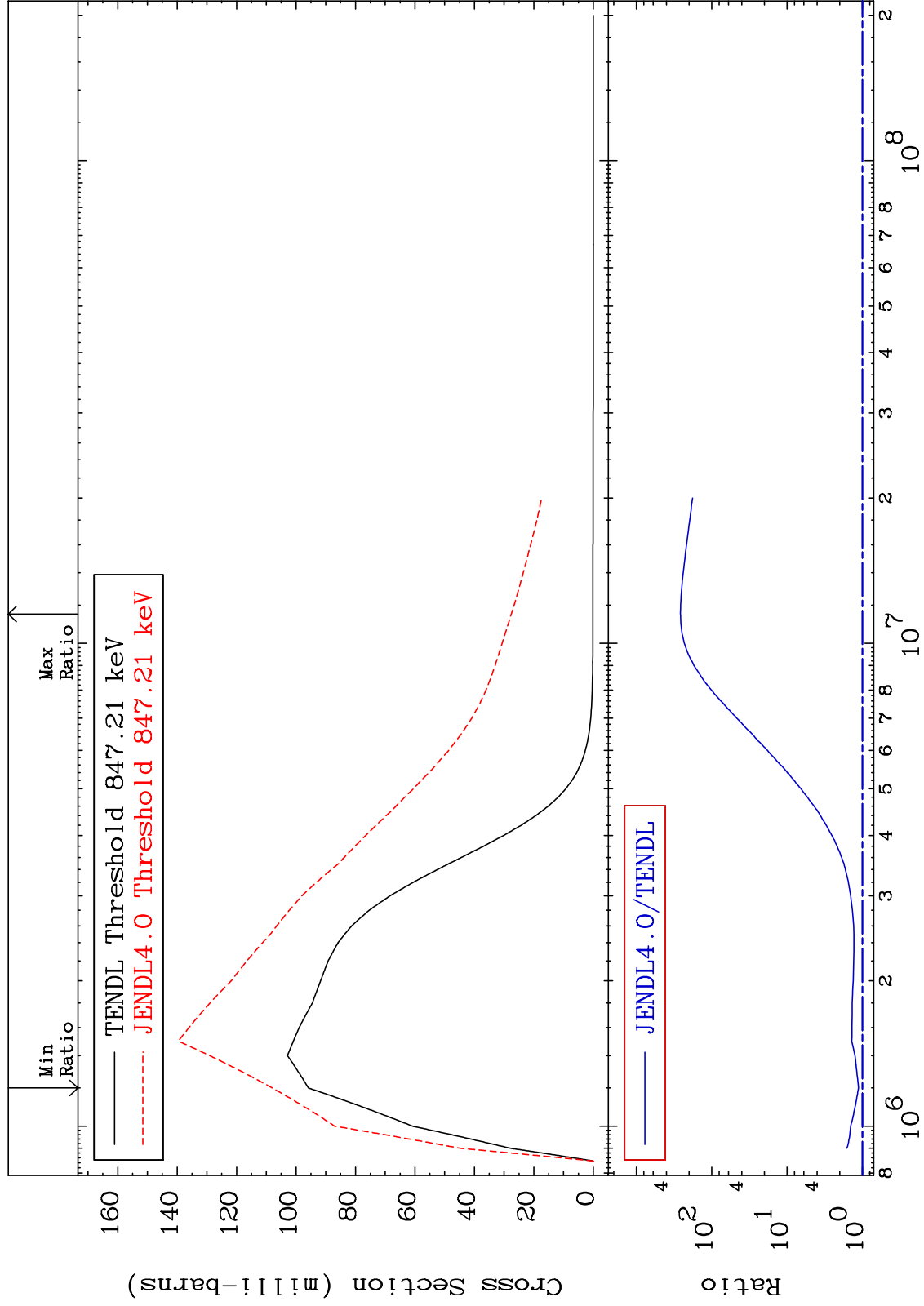
MAT 3531

MT= 59 (n,n') Level

35-Br-81

12.69 To 9999. %

Cross Section



17

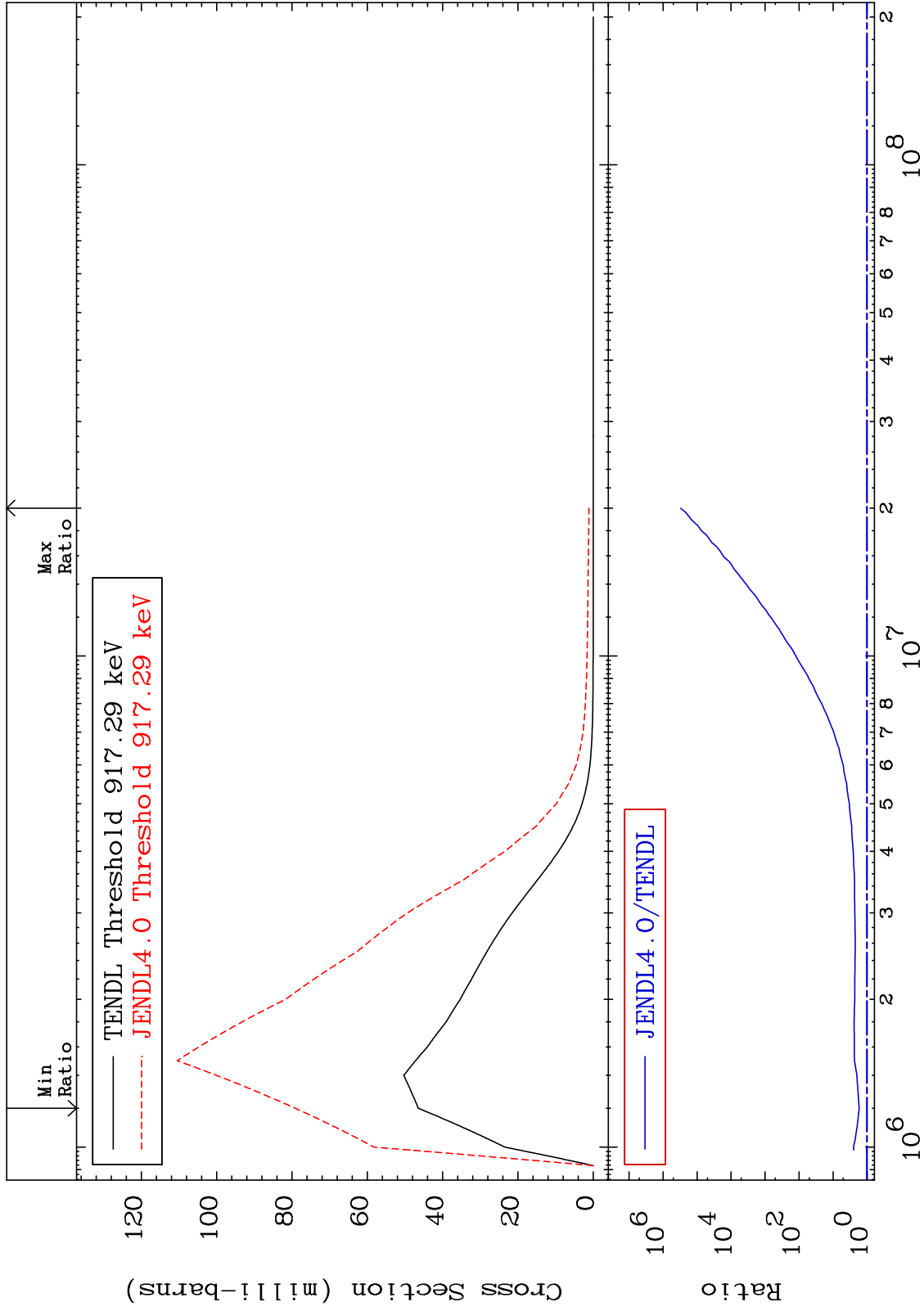
Incident Energy (eV)

35-Br-81

MAT 3531

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

70.29 To 9999. %  
35-Br-81



35-Br-81

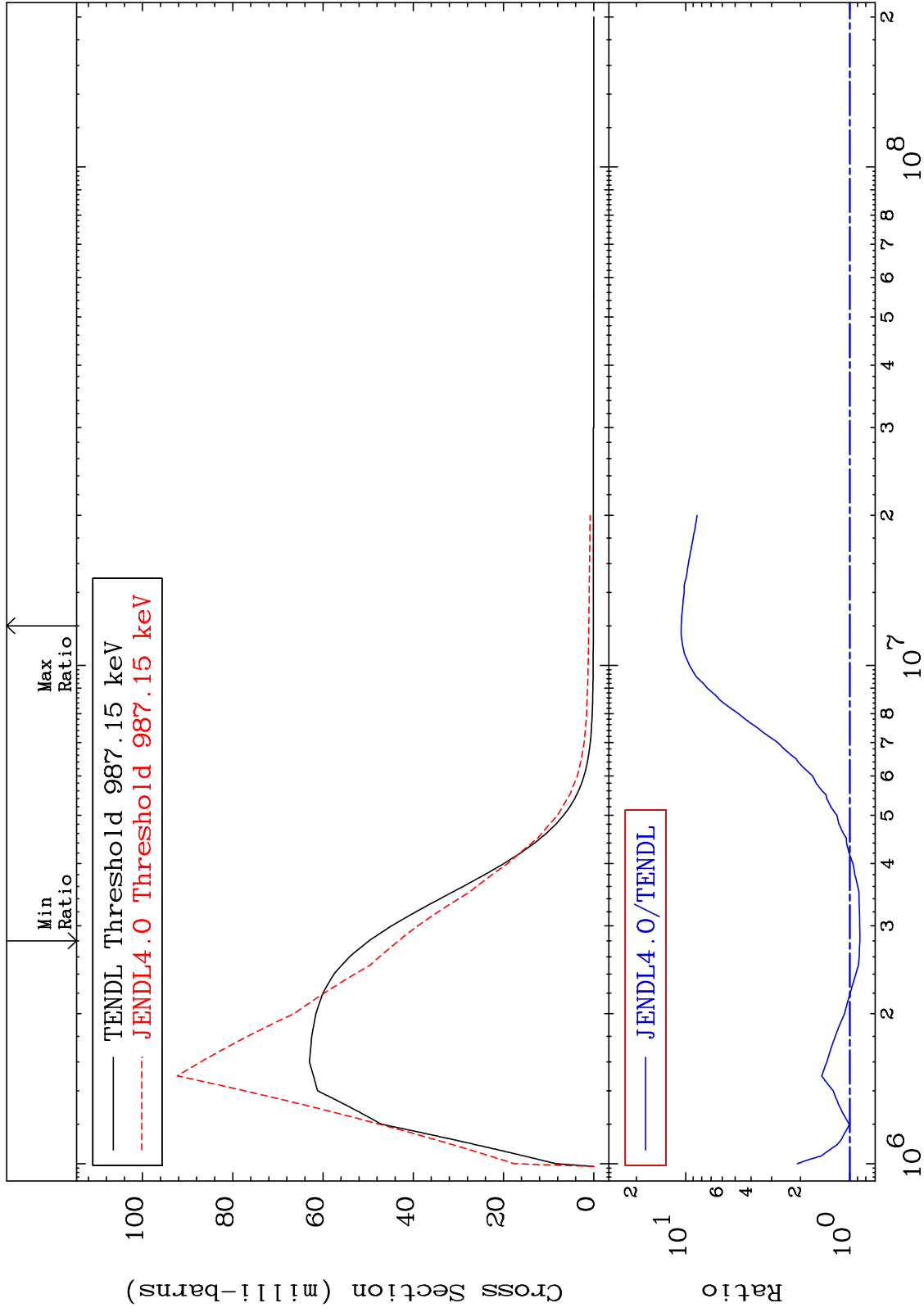
Incident Energy (eV)

18

MAT 3531

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

35-Br-81  
-13.12 To 964.8 %



19

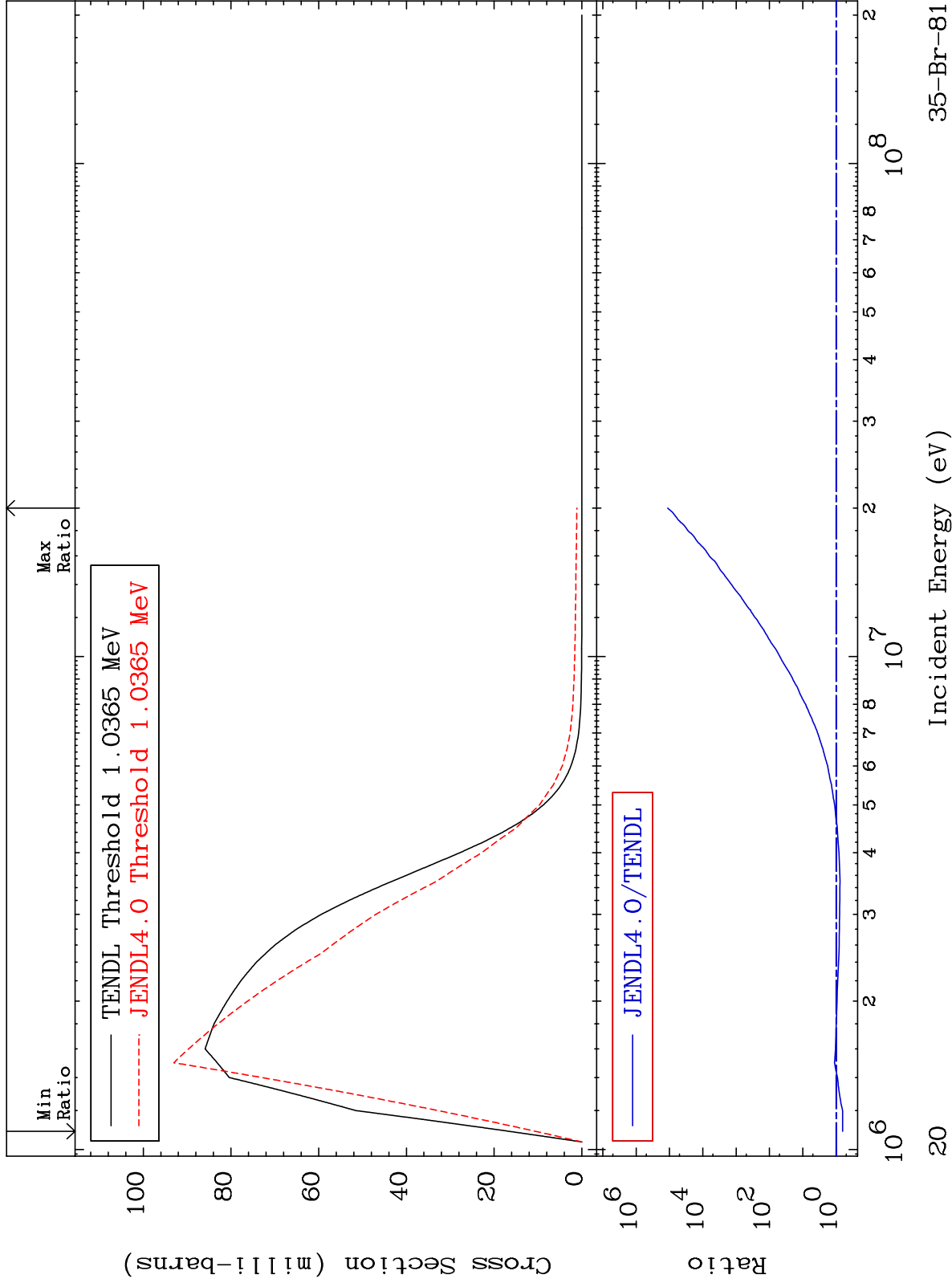
Incident Energy (eV)

35-Br-81

MAT 3531

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

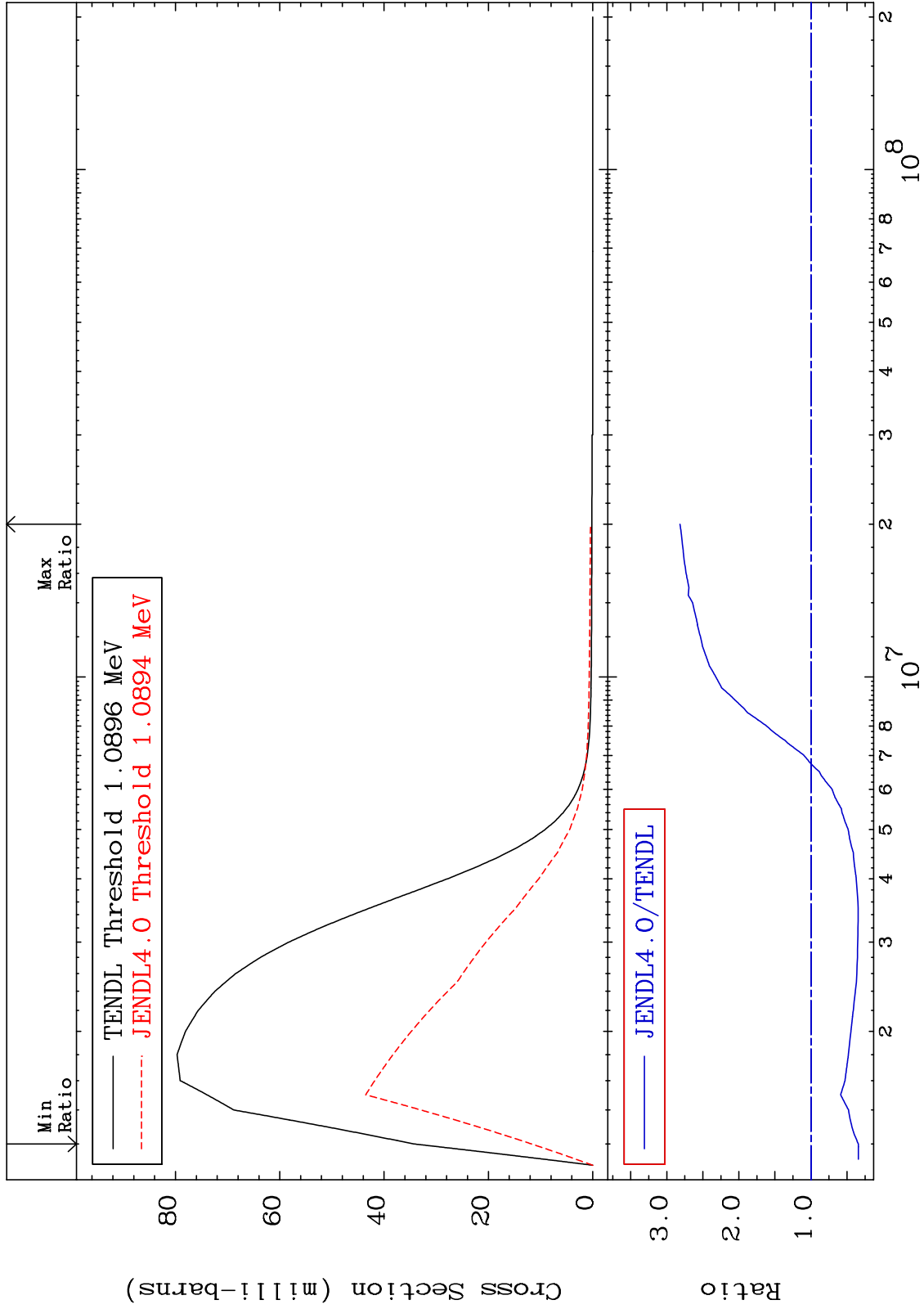
35-Br-81  
-36.34 To 9999. %



MAT 3531

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

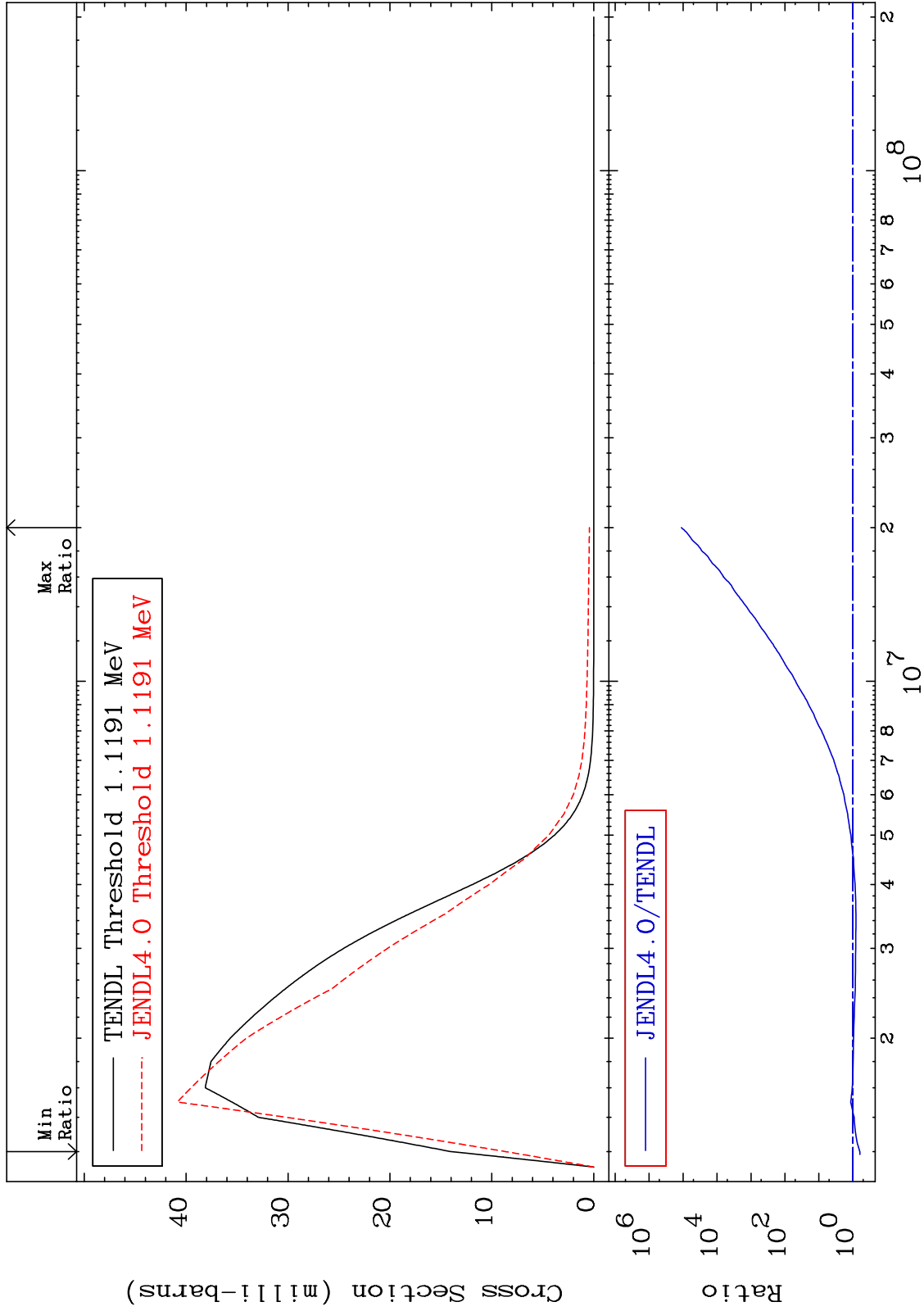
35-Br-81  
-65.80 To 181.7 %



MAT 3531

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

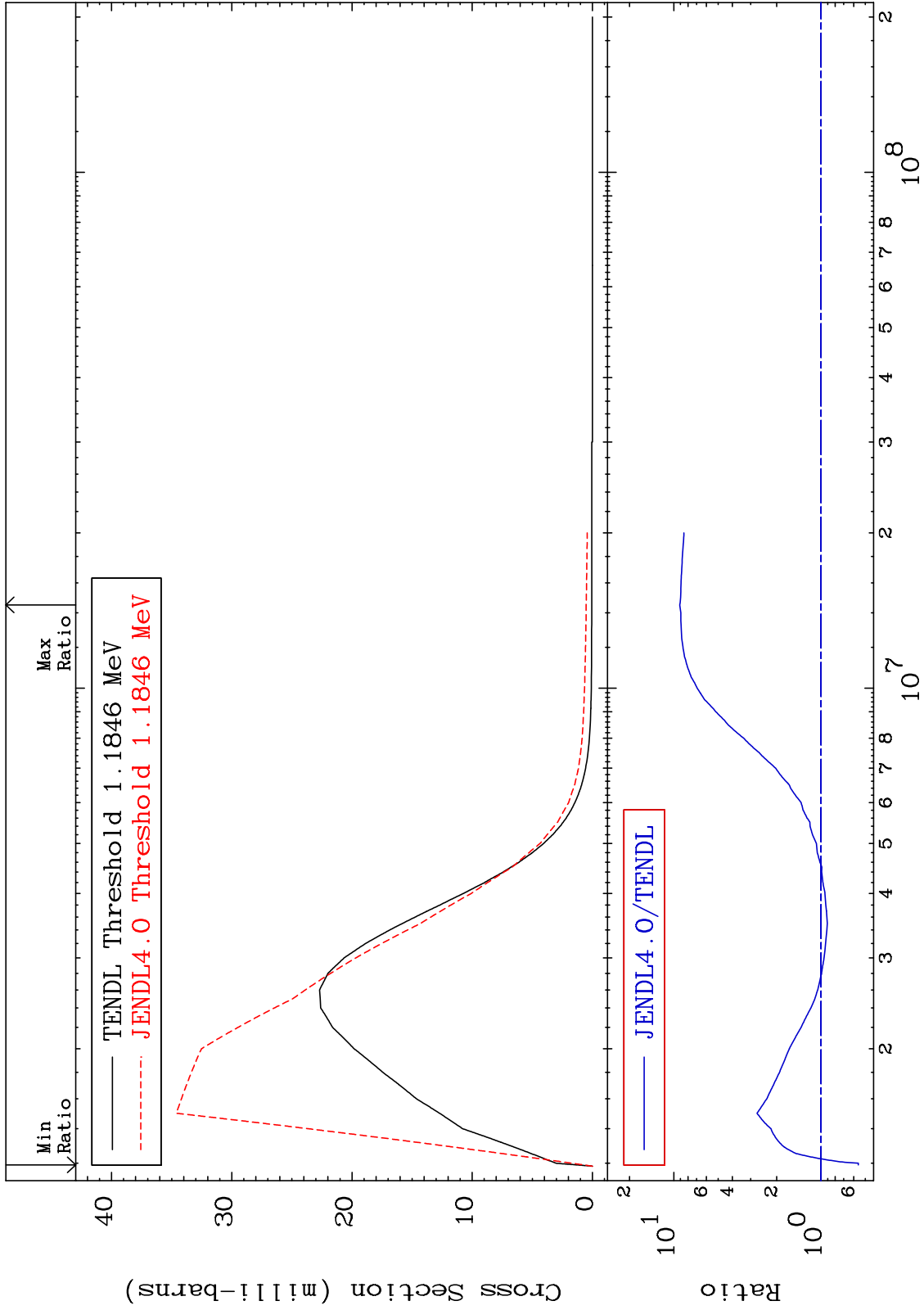
35-Br-81  
-38.19 To 9999. %



MAT 3531

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

35-Br-81  
-44.28 To 809.7 %

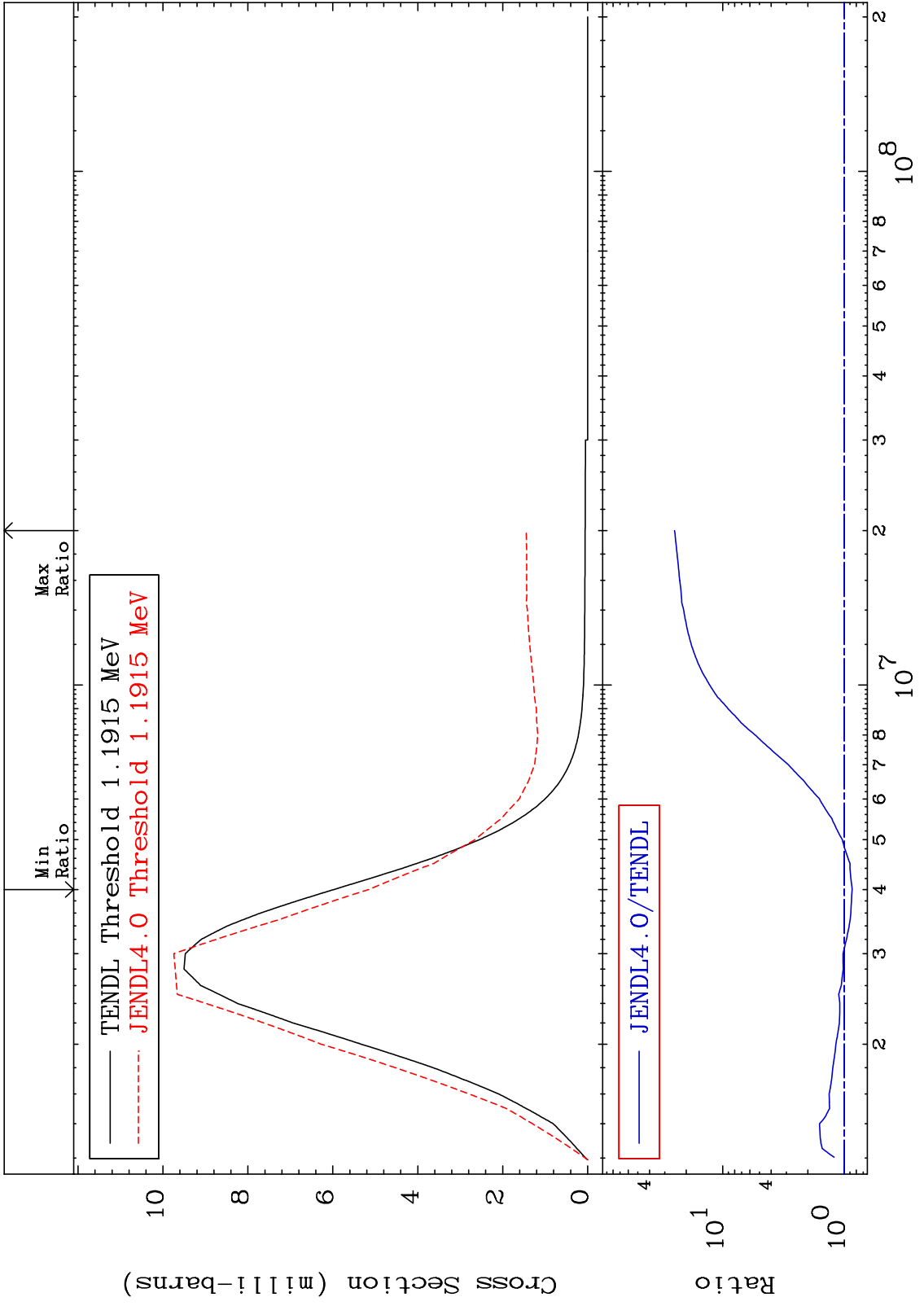




MAT 3531

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

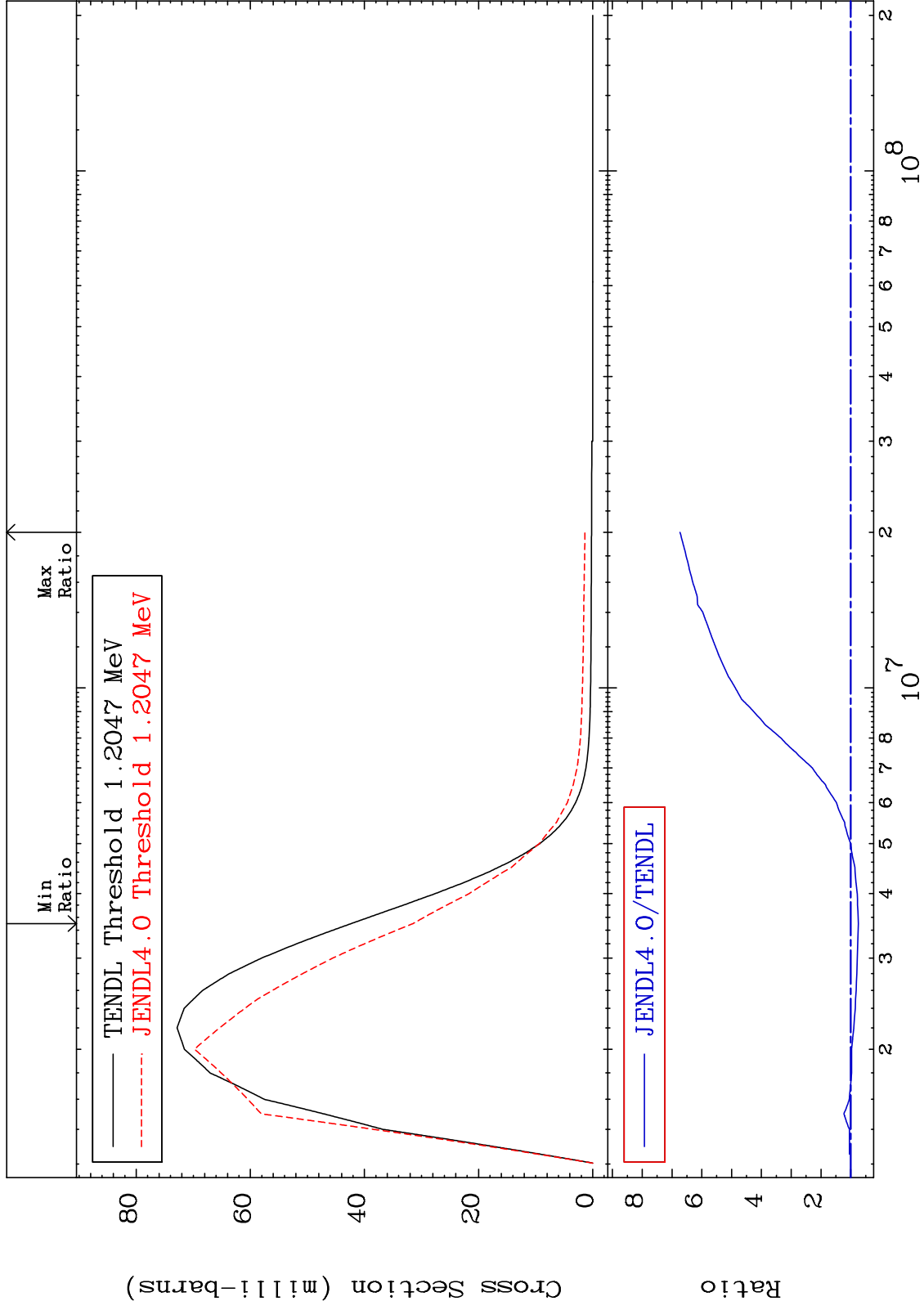
35-Br-81  
-13.68 To 2391. %



MAT 3531

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

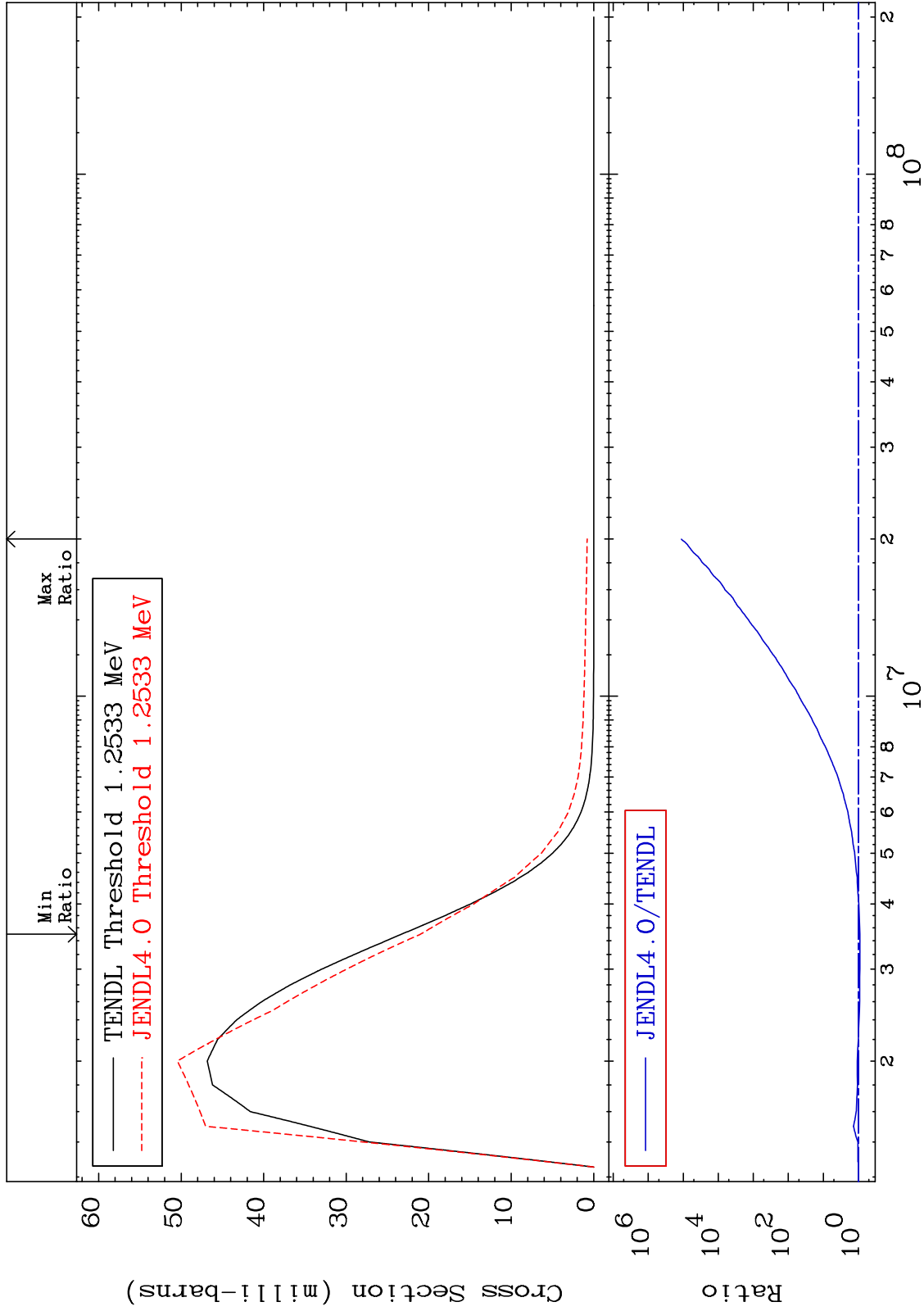
35-Br-81  
-25.58 To 573.1 %



MAT 3531

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

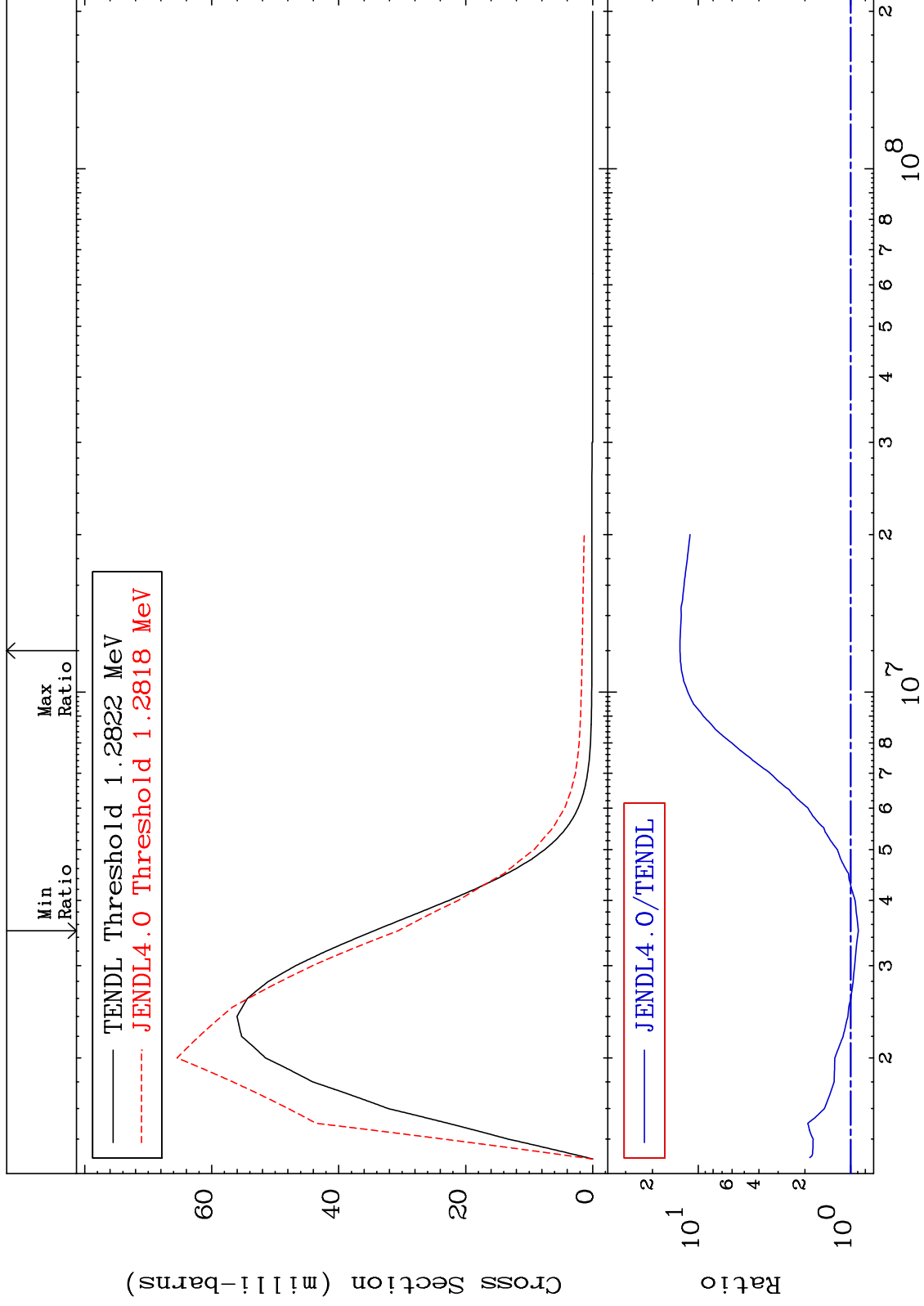
35-Br-81  
-9.917 To 9999. %



MAT 3531

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

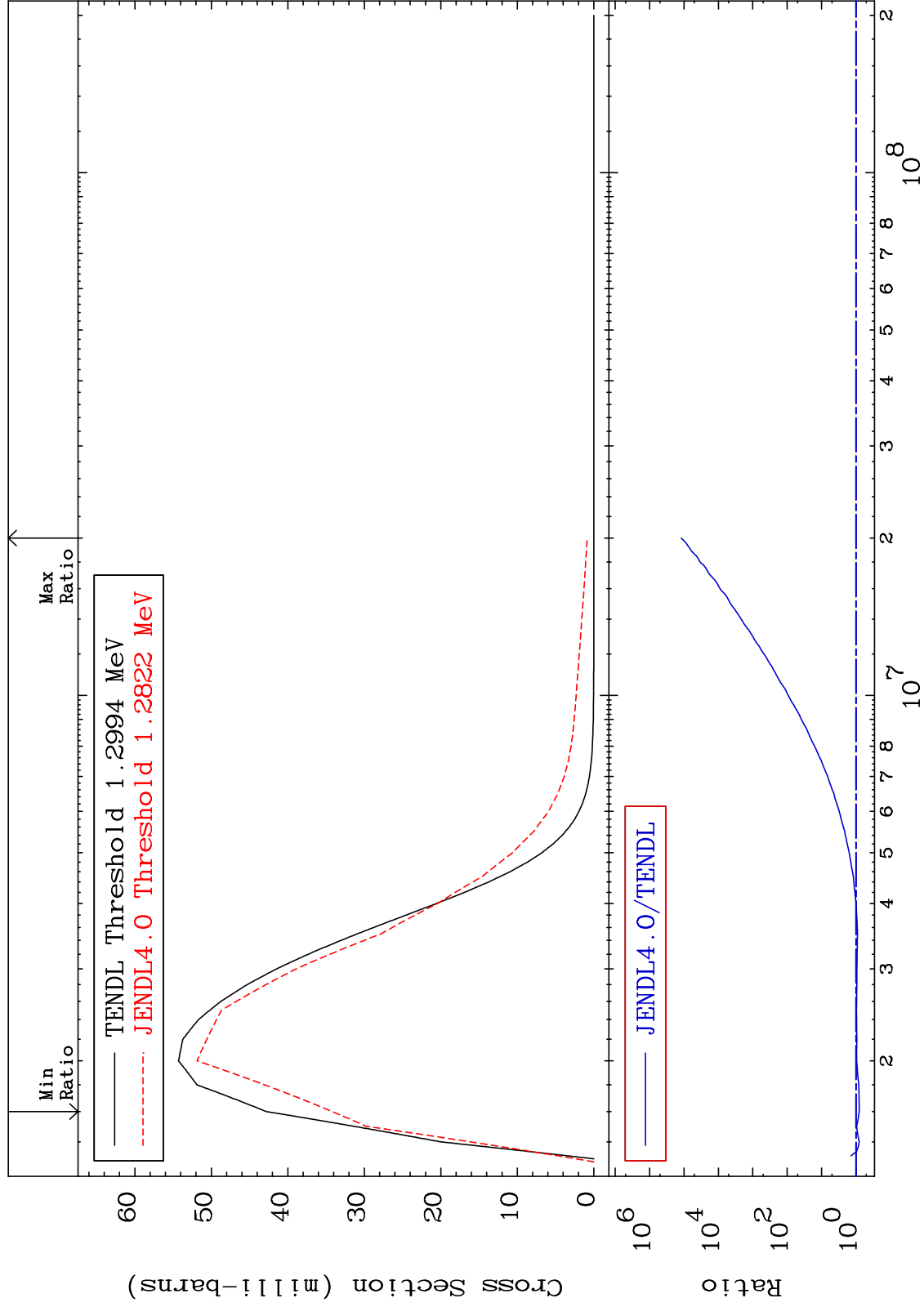
35-Br-81  
-11.02 To 1220. %



MAT 3531

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

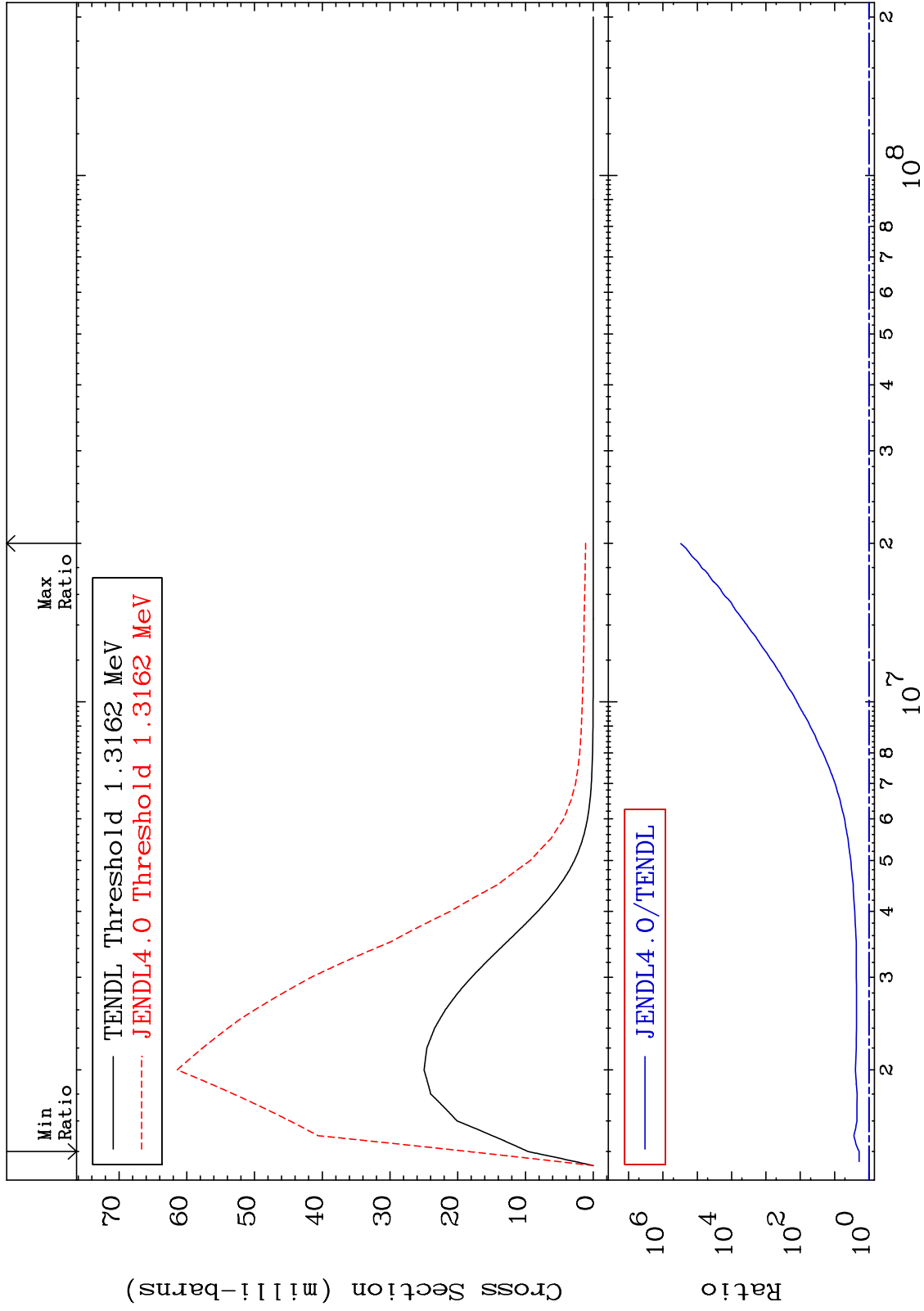
35-Br-81  
-20.14 To 9999. %



MAT 3531

MT= 71 (n,n') Level  
Cross Section

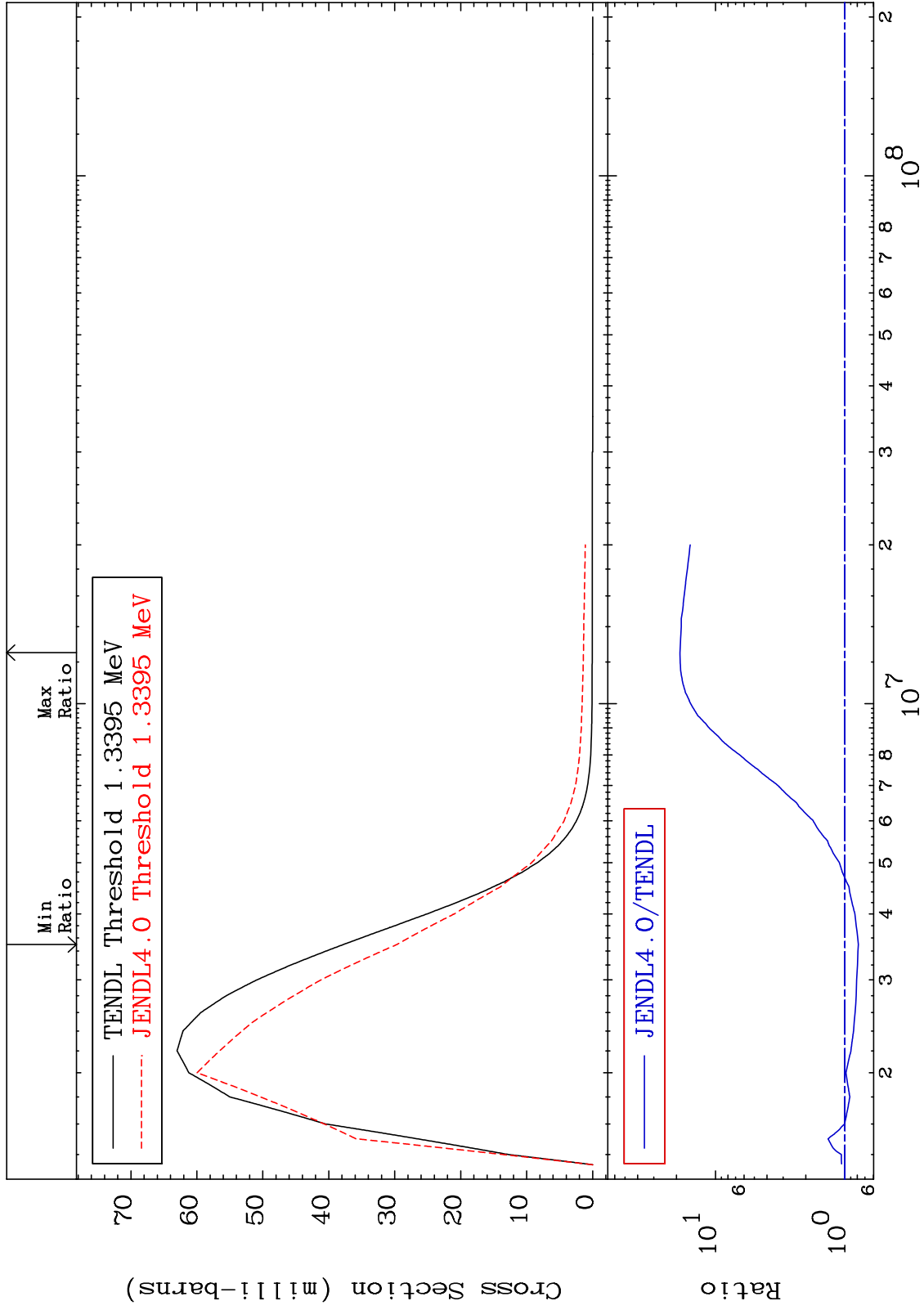
35-Br-81  
92.12 To 9999. %



MAT 3531

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

35-Br-81  
-21.48 To 1779. %



30

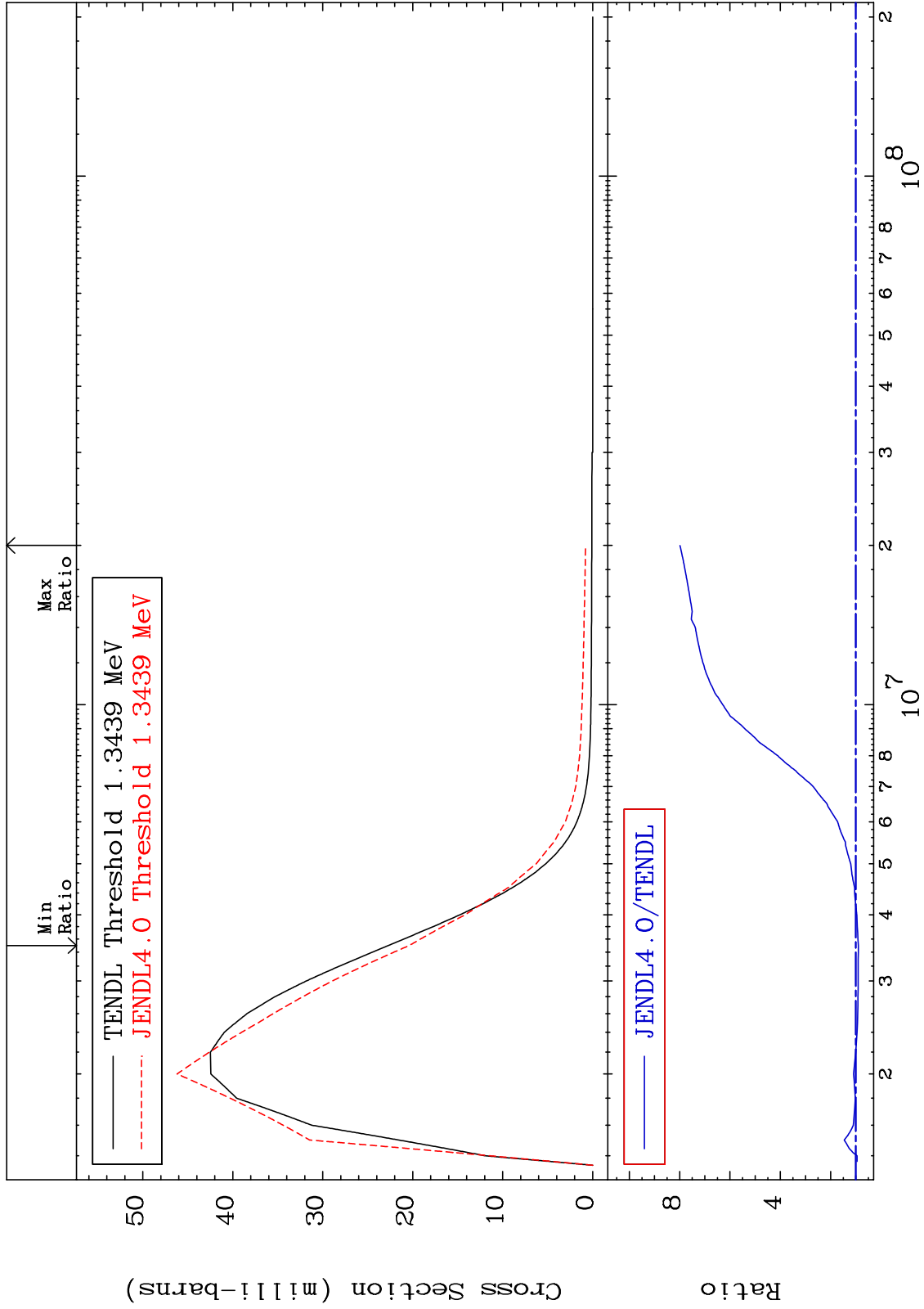
Incident Energy (eV)

35-Br-81

MAT 3531

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

35-Br-81  
-10.30 To 698.6 %

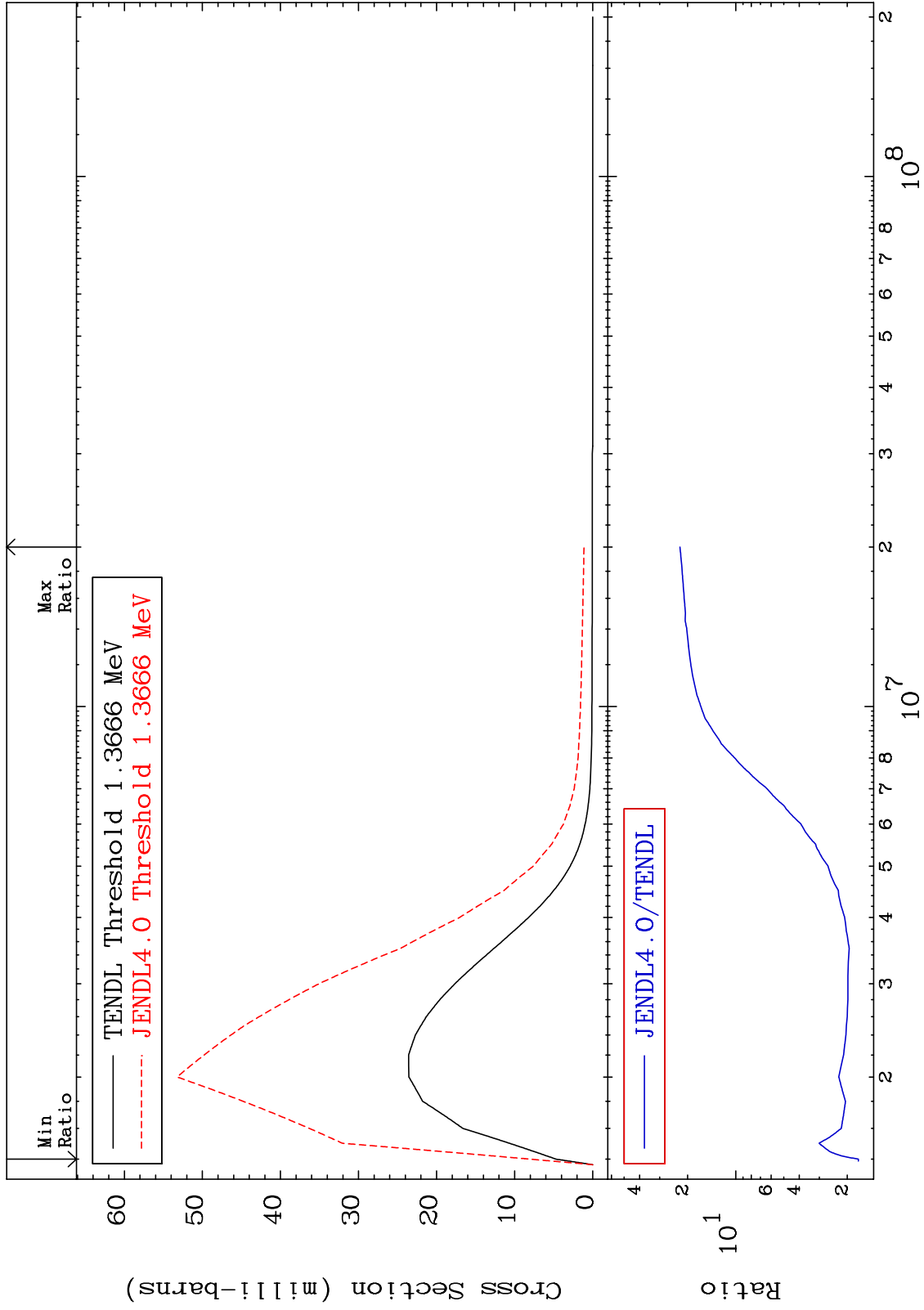




MAT 3531

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

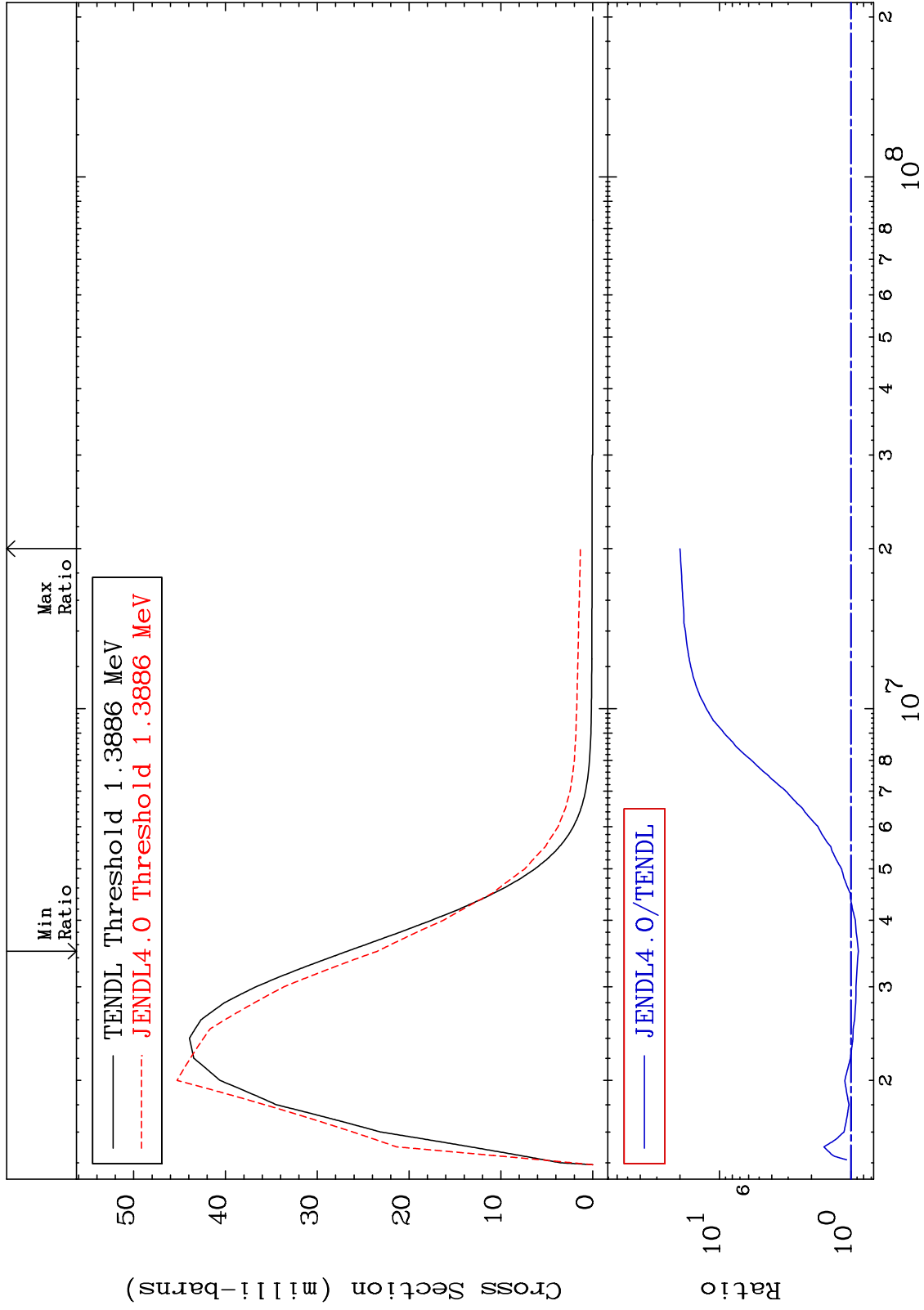
35-Br-81  
70.46 To 2134. %



MAT 3531

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

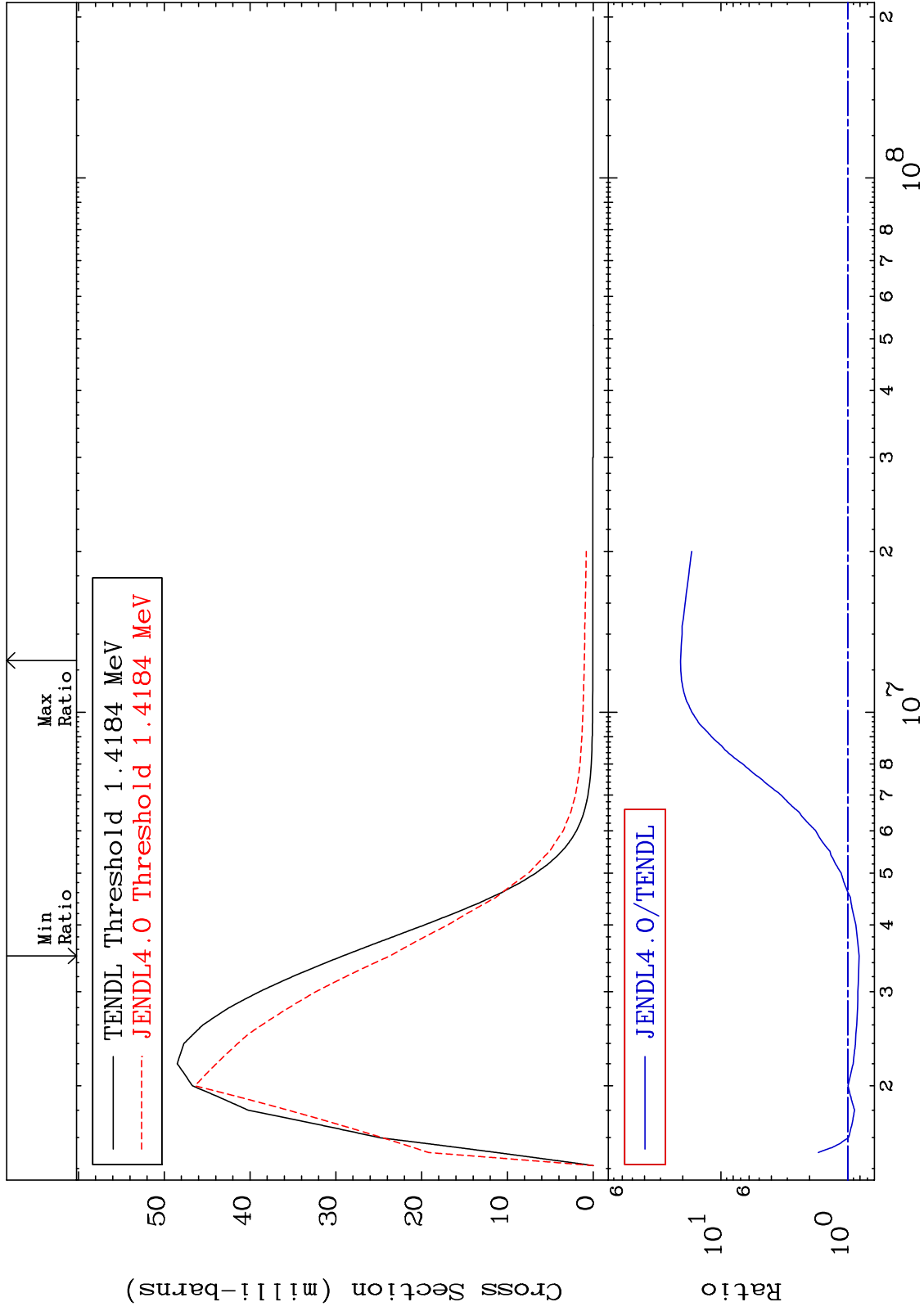
35-Br-81  
-12.24 To 1896. %



MAT 3531

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

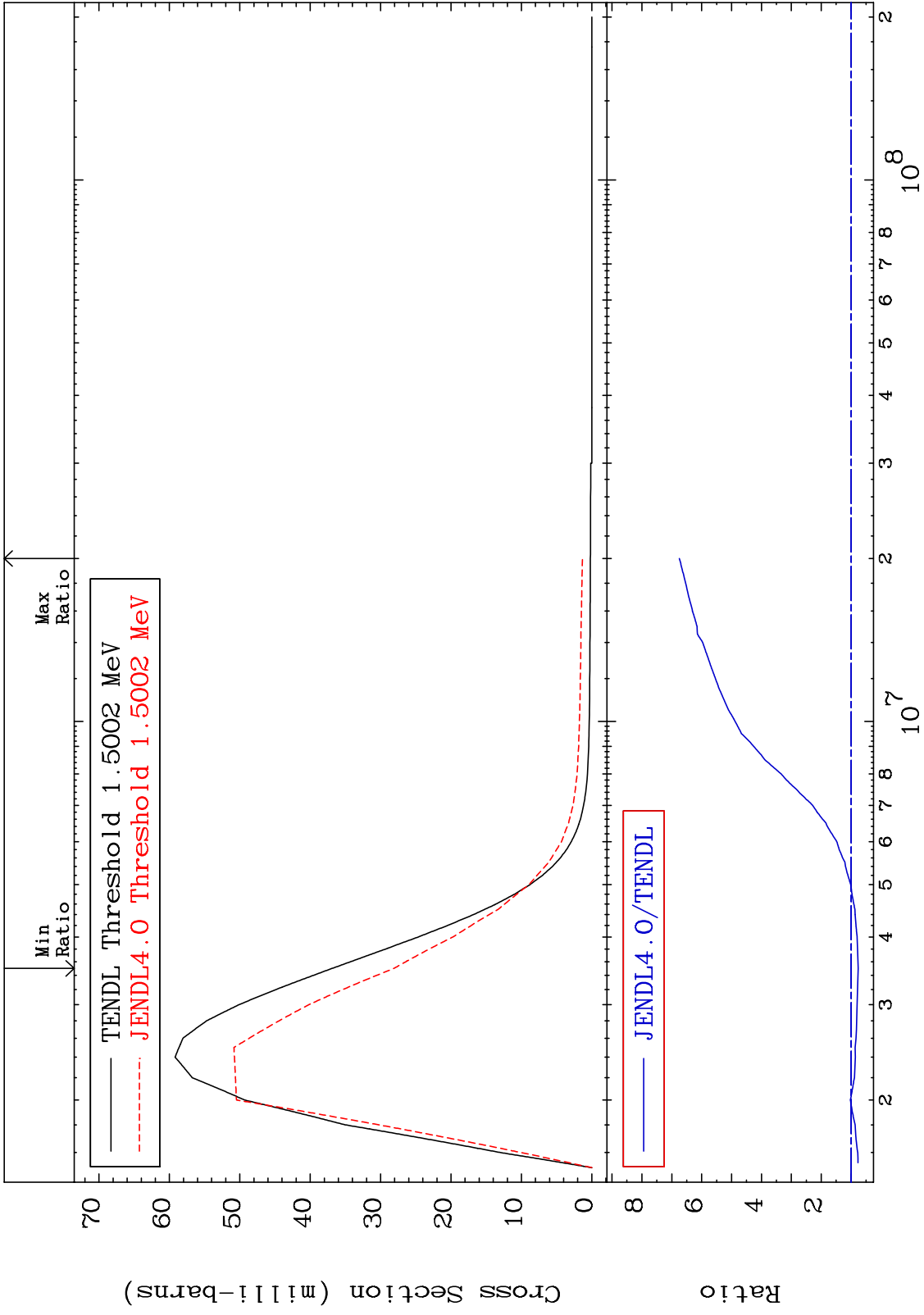
35-Br-81  
-18.80 To 1978. %



MAT 3531

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

35-Br-81  
-23.80 To 574.5 %



35

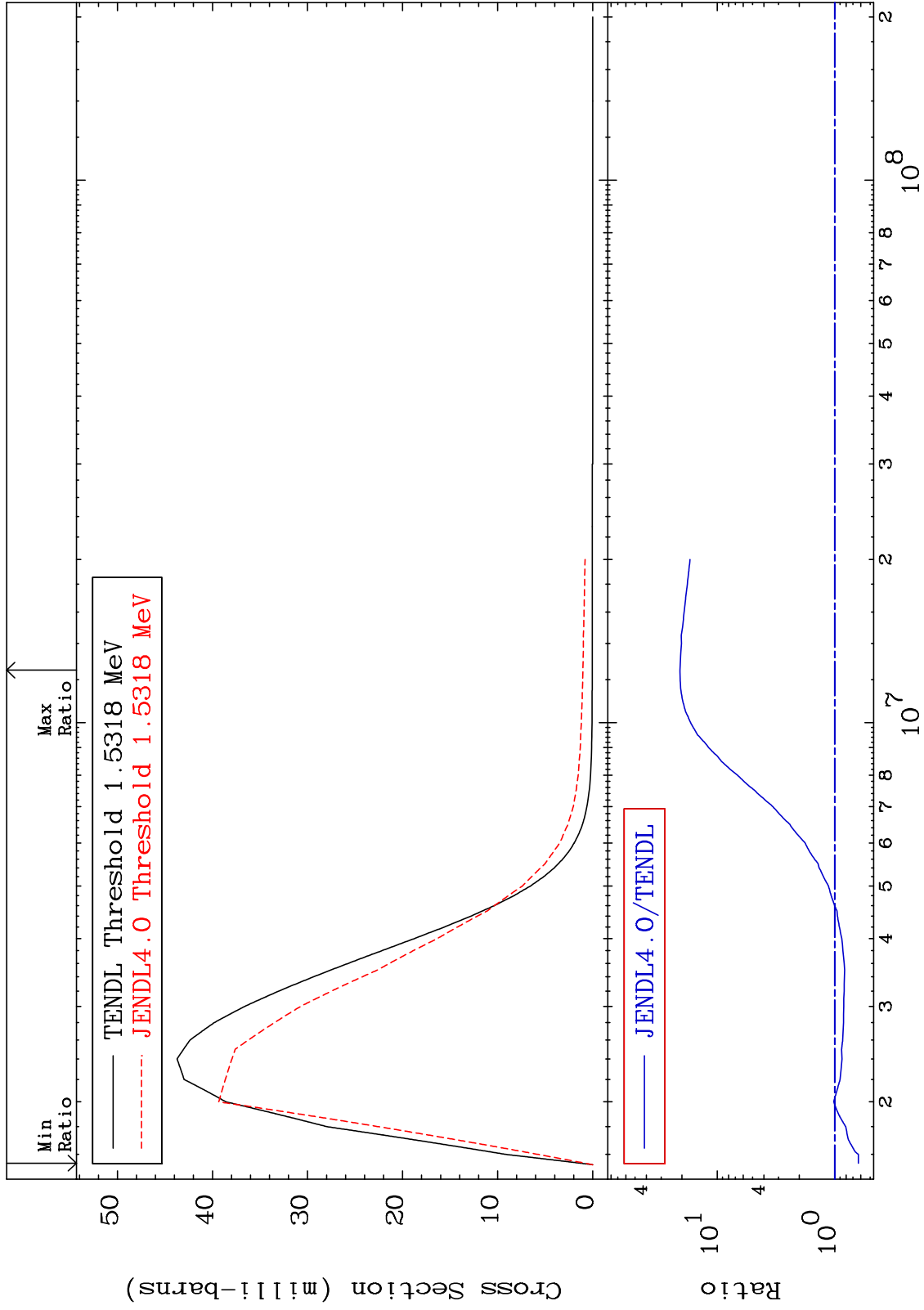
Incident Energy (eV)

35-Br-81

MAT 3531

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

35-Br-81  
-37.16 To 1972. %



36

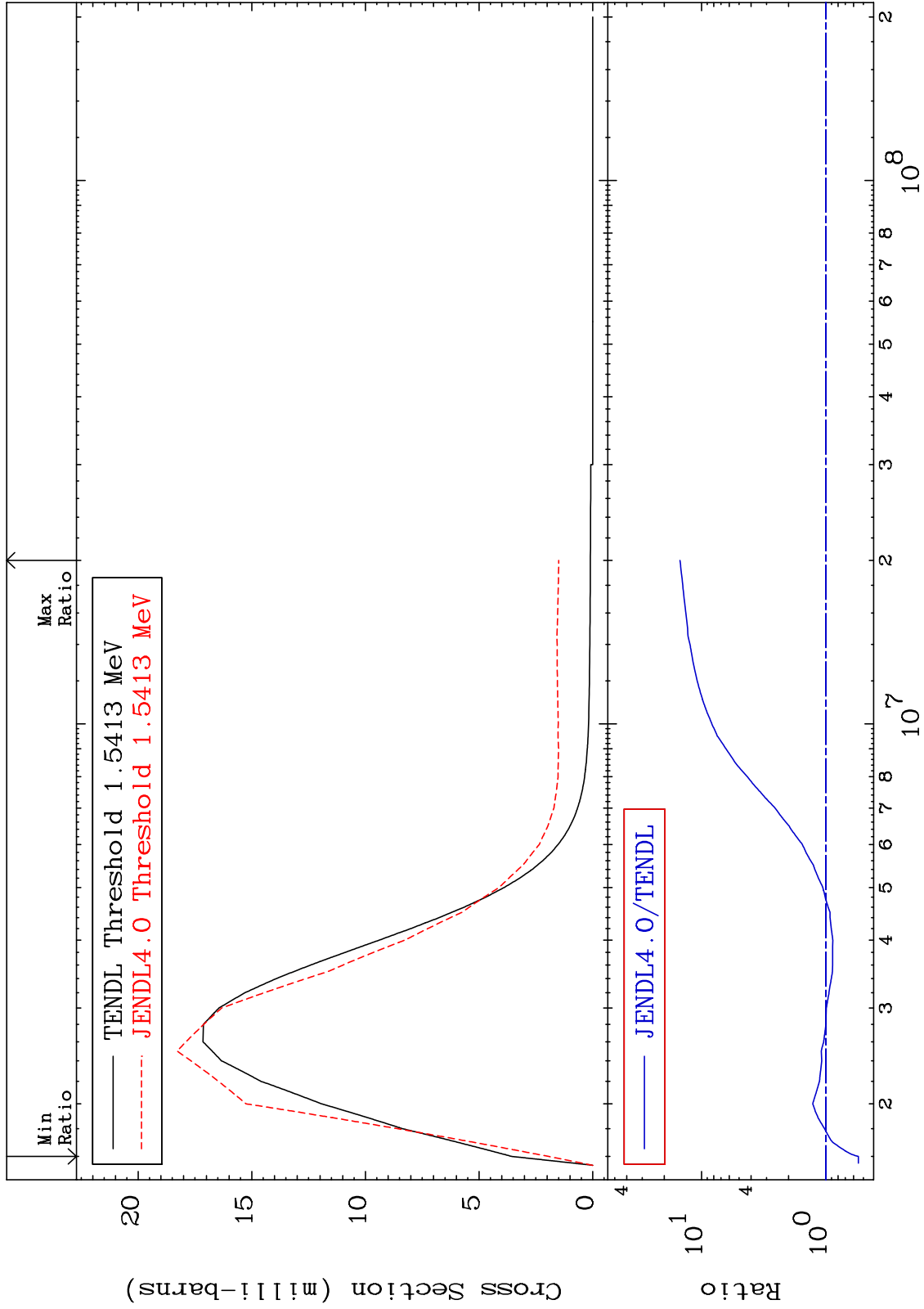
Incident Energy (eV)

35-Br-81

MAT 3531

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

35-Br-81  
-45.17 To 1391. %



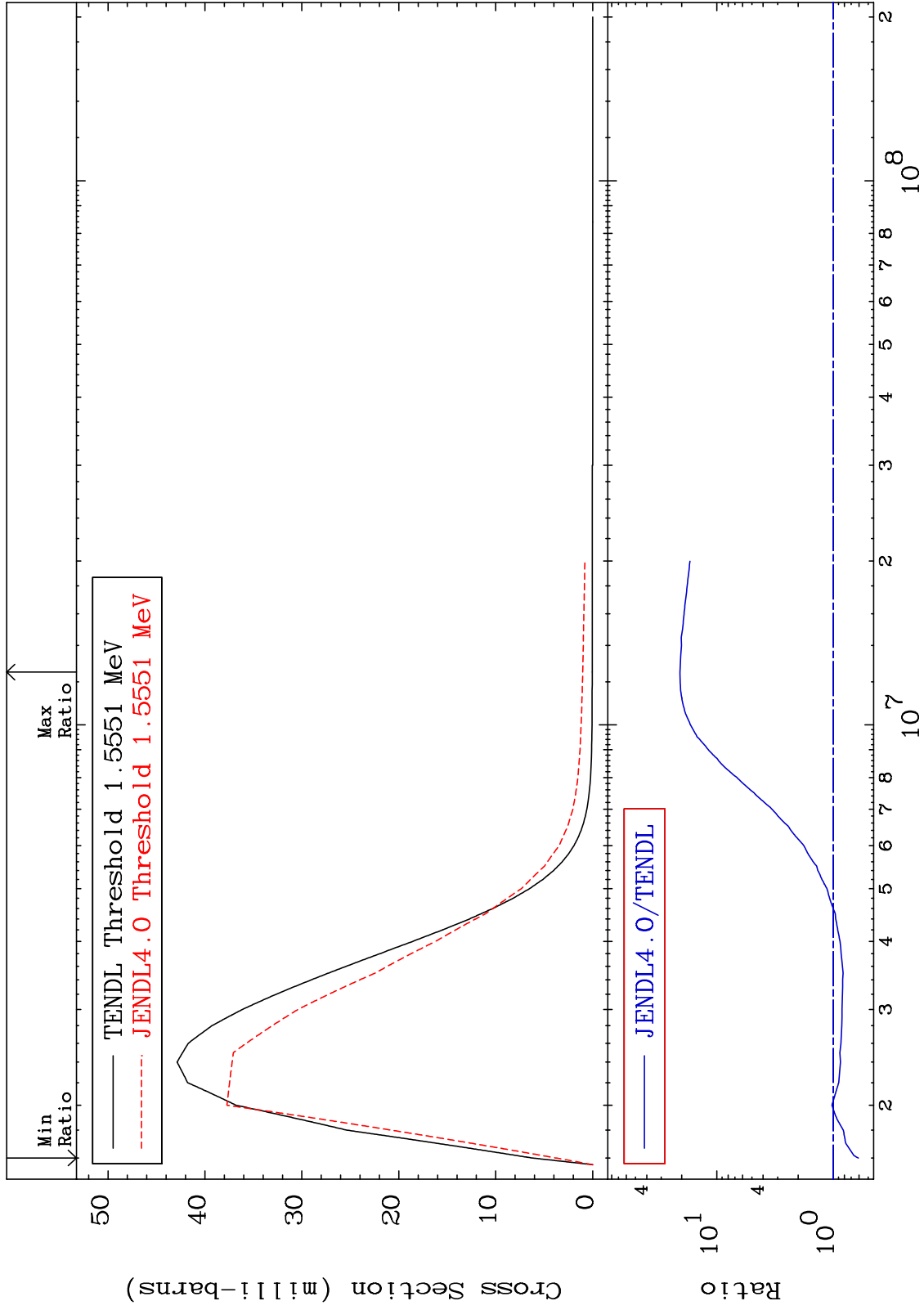
37

35-Br-81

MAT 3531

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

35-Br-81  
-39.29 To 1970. %



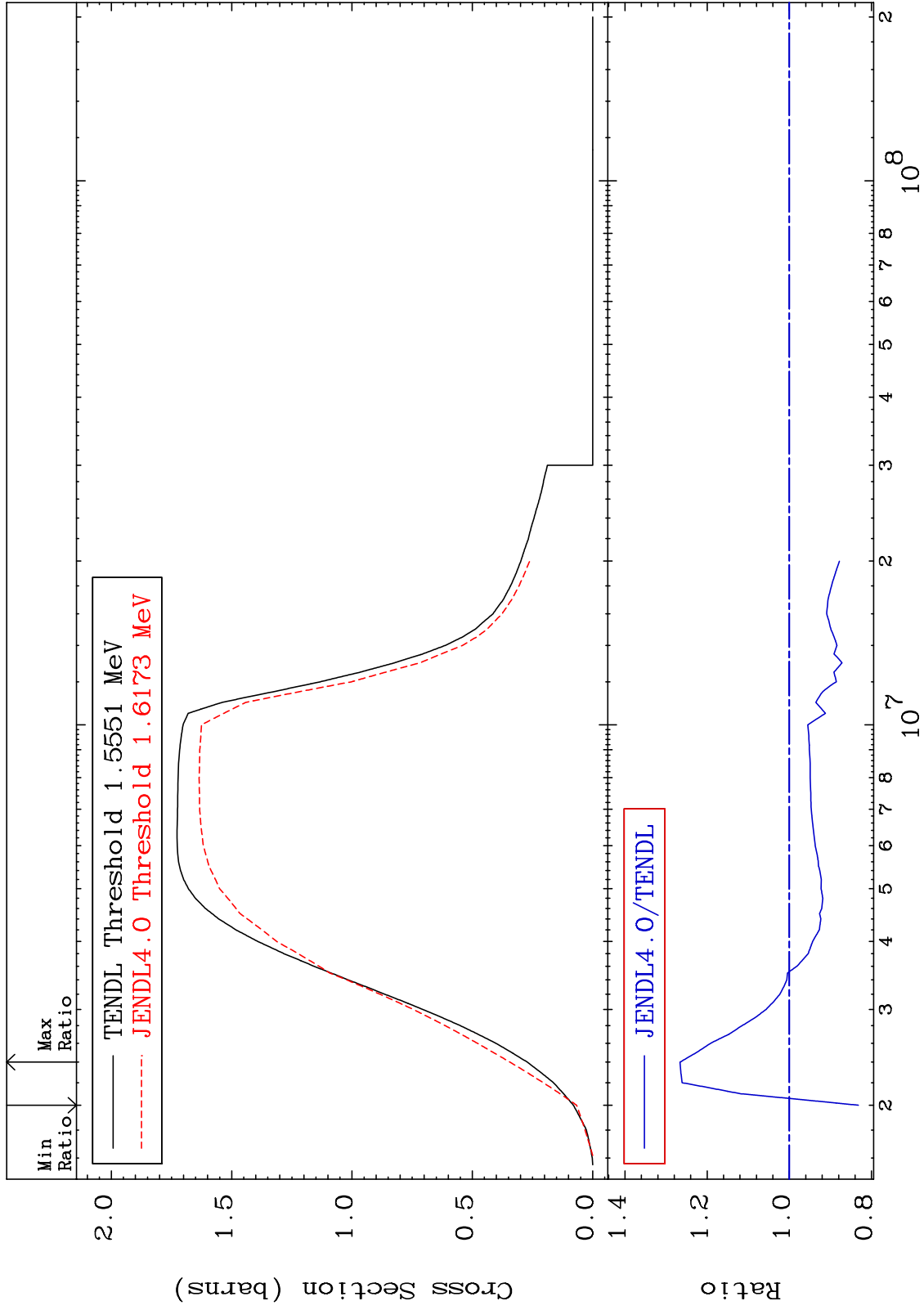
38

35-Br-81

MAT 3531

(n, n') Continuum  
Cross Section

35-Br-81  
-16.81 To 26.60 %





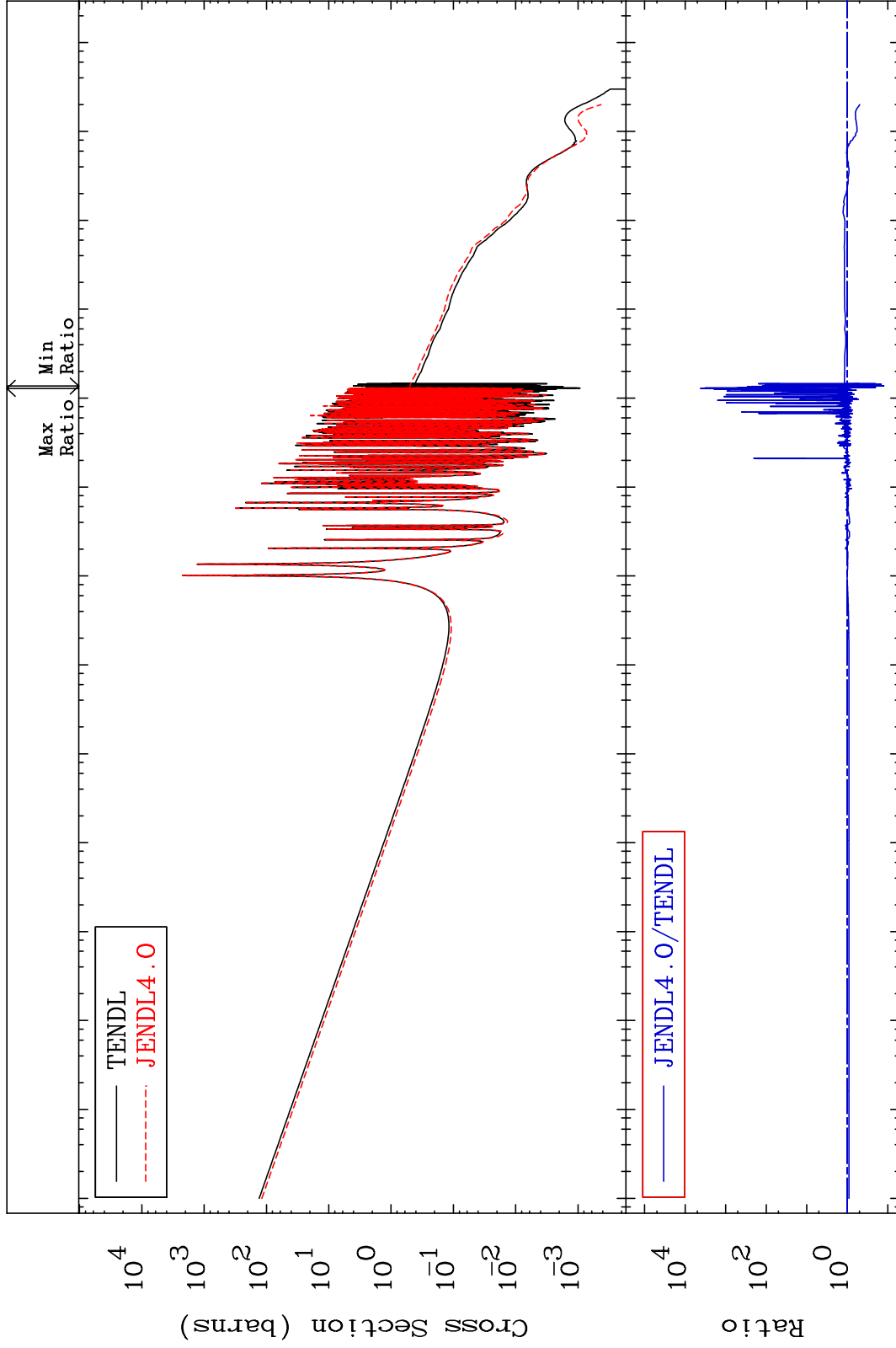
MAT 3531

(n,  $\gamma$ )

35-Br-81

Cross Section

-87.67 To 9999. %



40

Incident Energy (eV)

35-Br-81

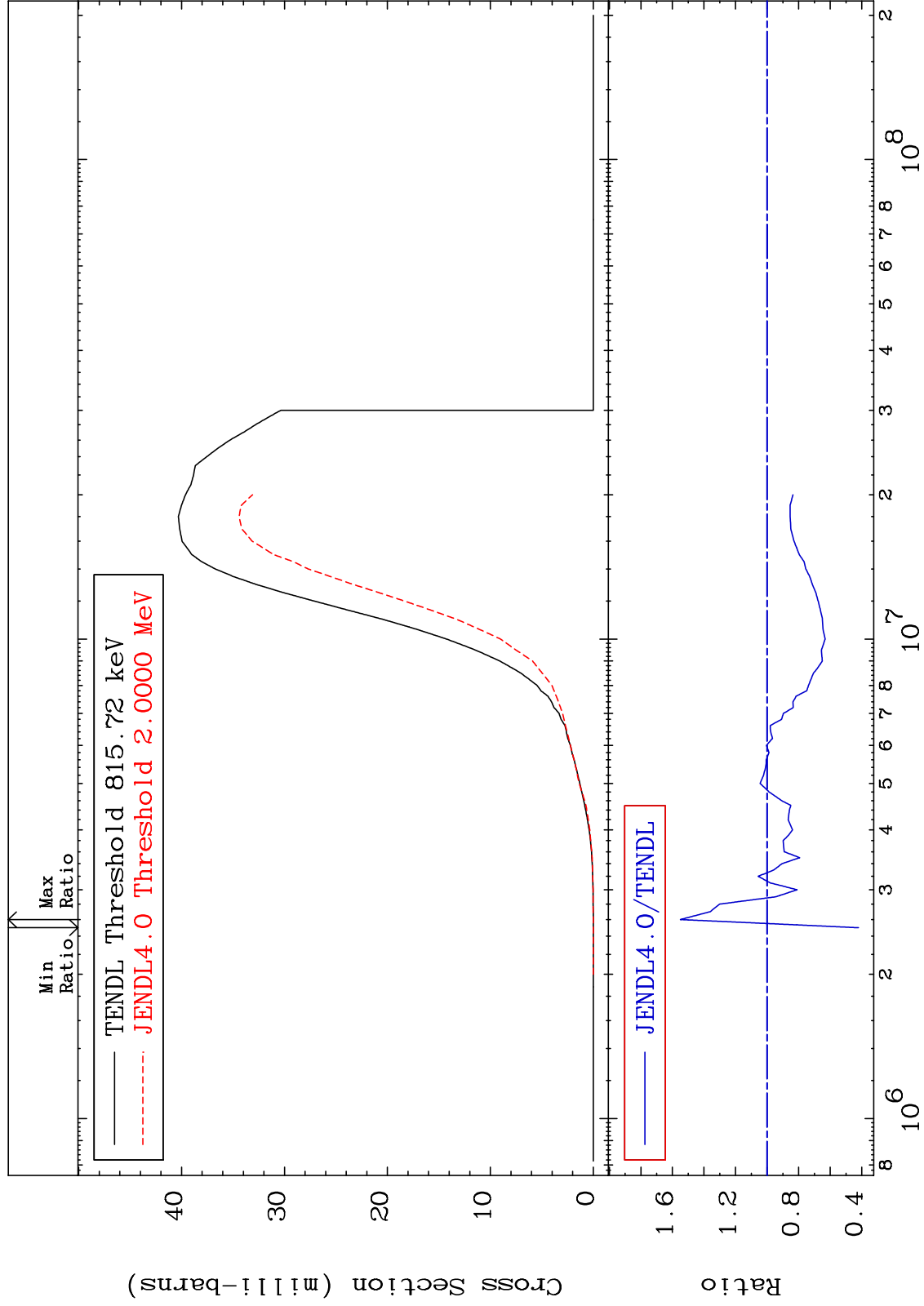
MAT 3531

(n, p)

<sup>35</sup>Br-81

Cross Section

-57.93 To 54.92 %



41

Incident Energy (eV)

<sup>35</sup>Br-81

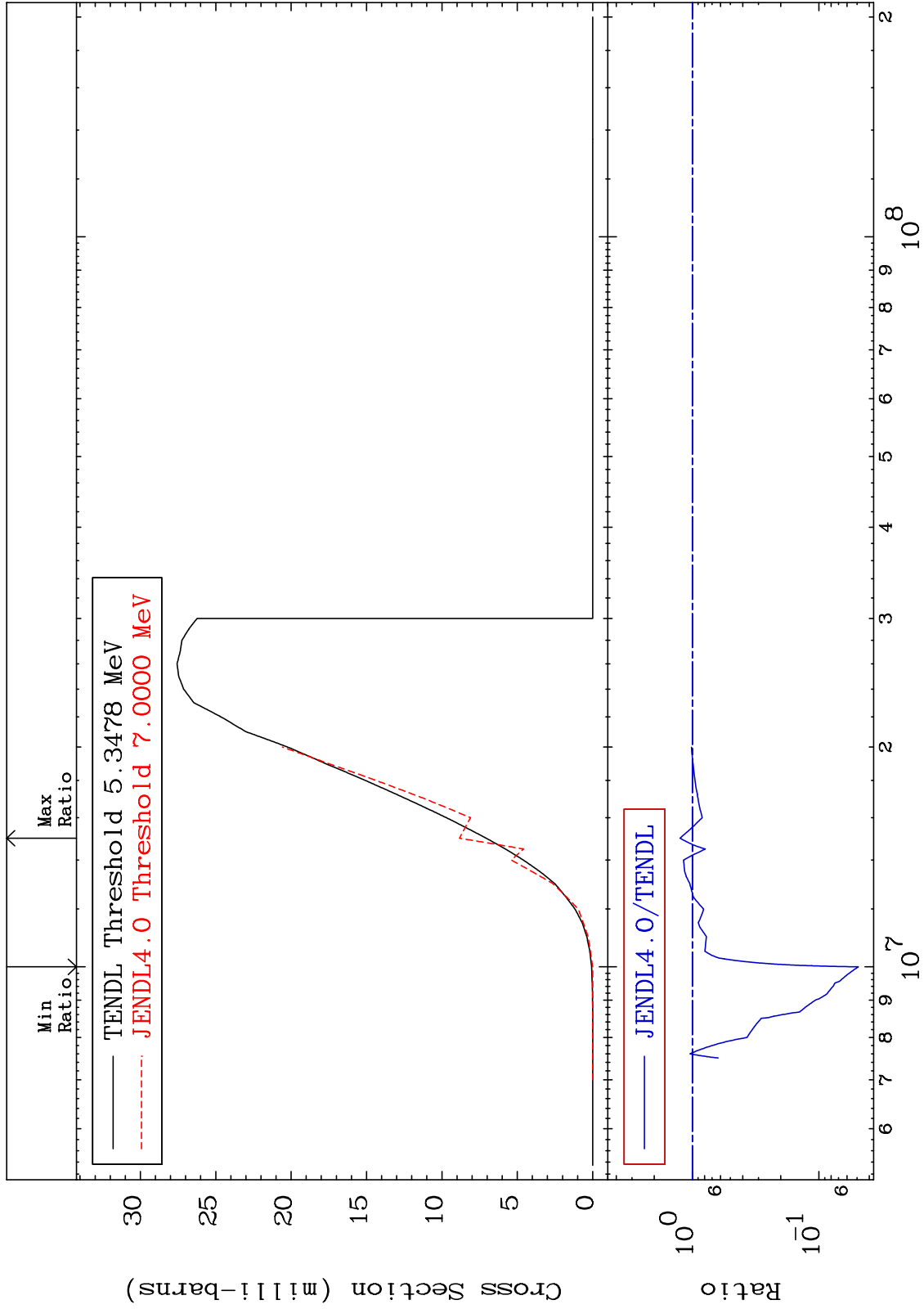
MAT 3531

(n, d)

35-Br-81

Cross Section

-95.13 To 25.17 %



42

35-Br-81

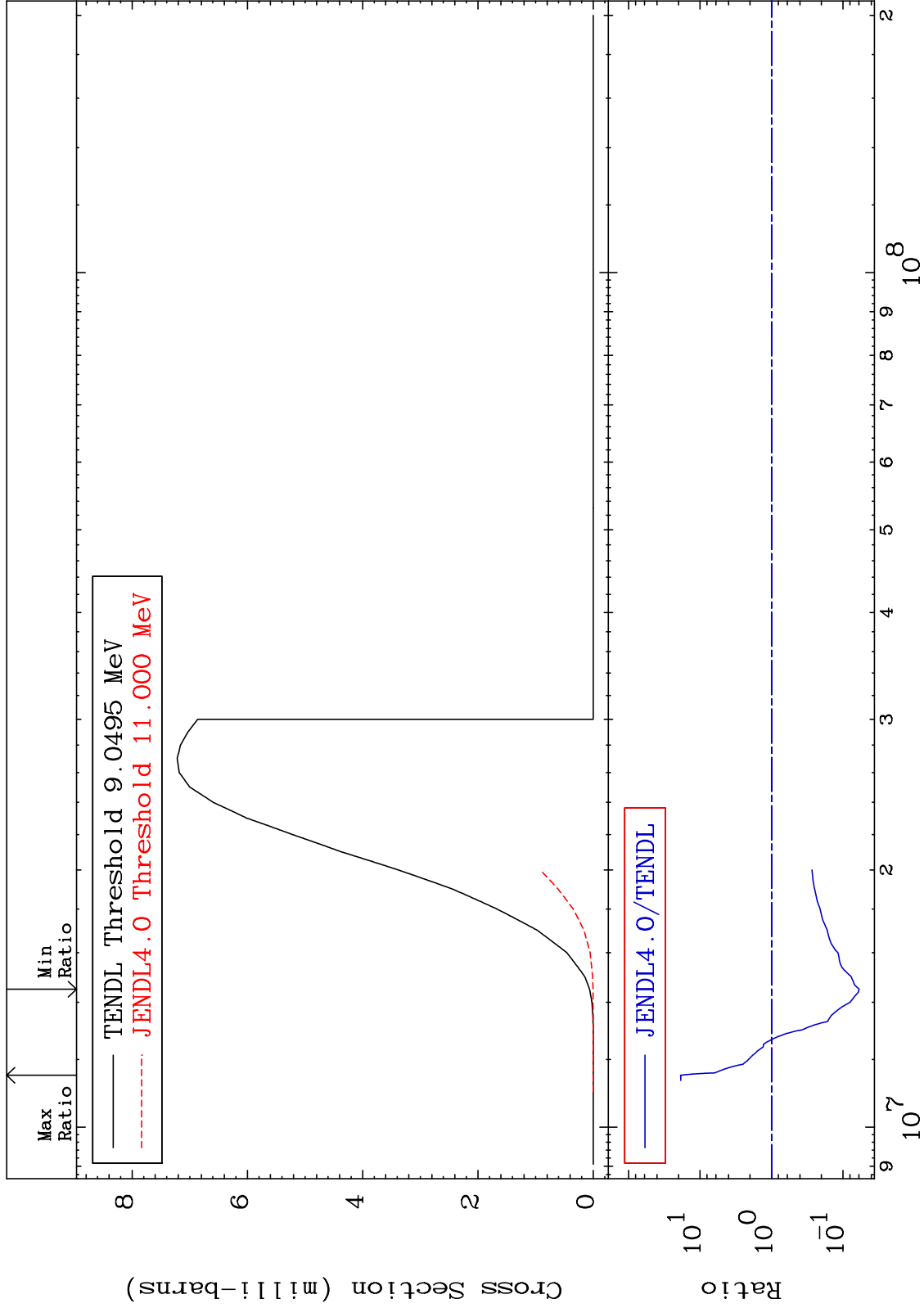
MAT 3531

(n, t)

35-Br-81

Cross Section

-94.07 To 1771. %



43

Incident Energy (eV)

35-Br-81

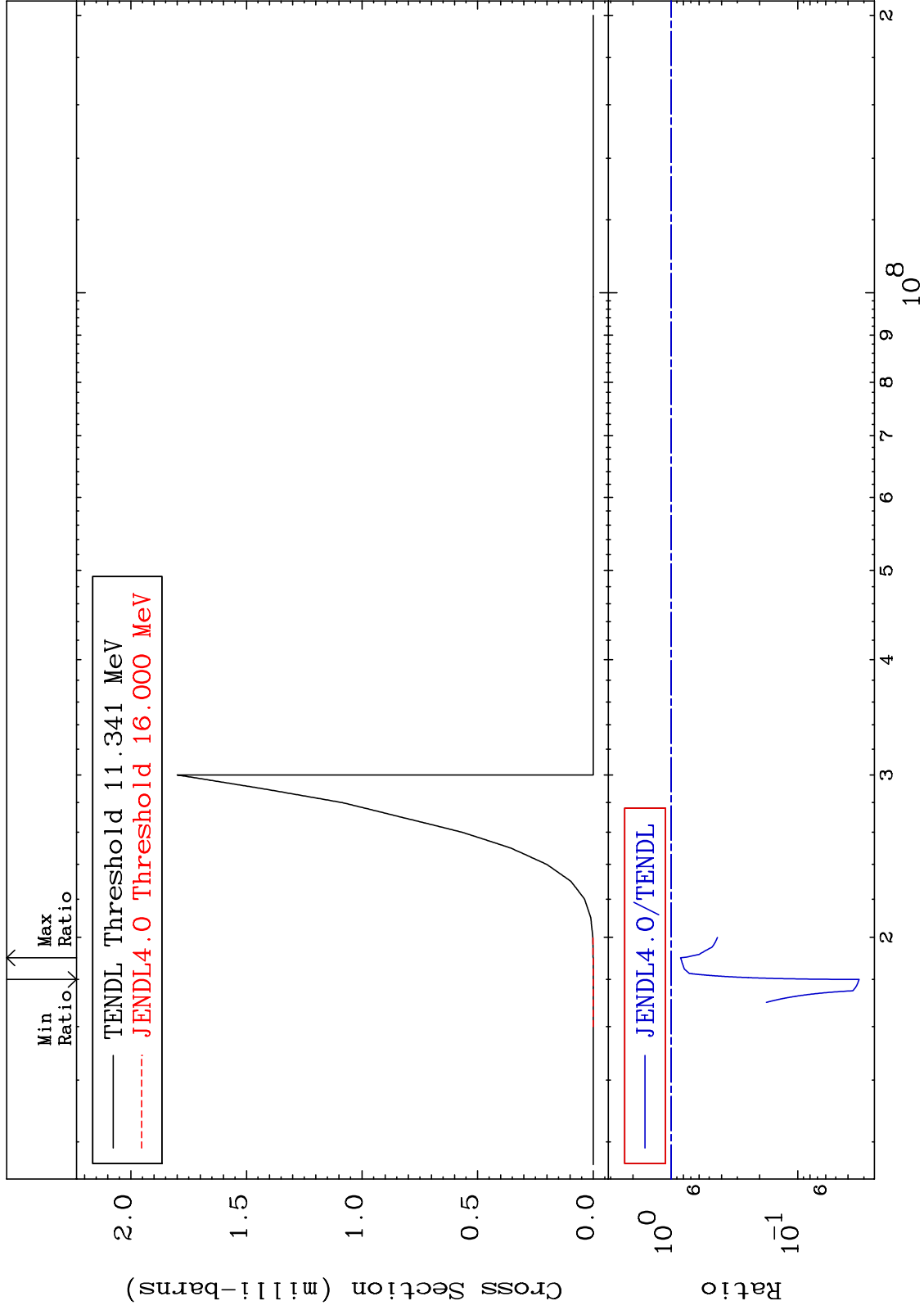
MAT 3531

(n, He-3)

35-Br-81

Cross Section

-96.73 To -15.88%



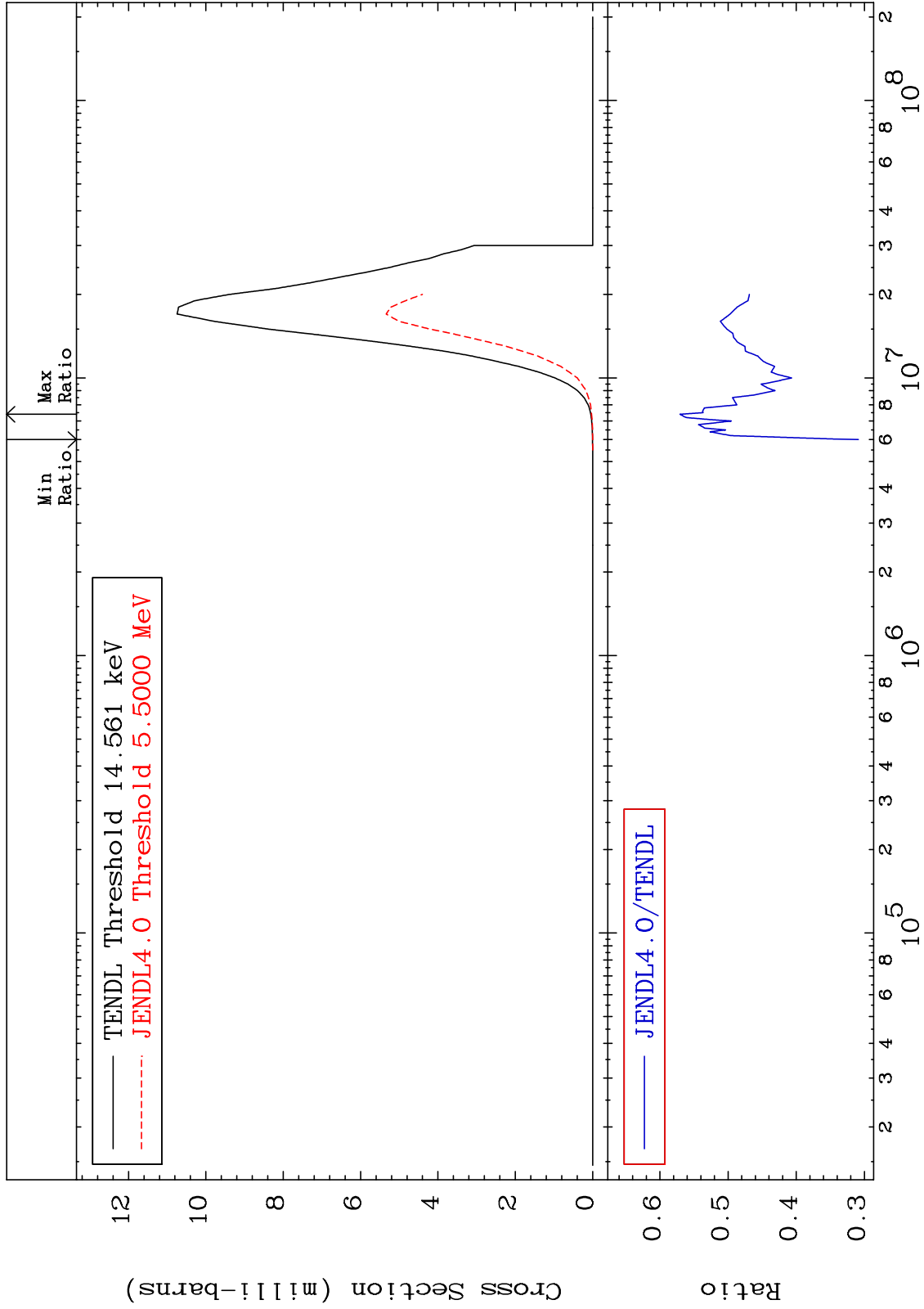
MAT 3531

(n,  $\alpha$ )

35-Br-81

Cross Section

-69.12 To -42.95%



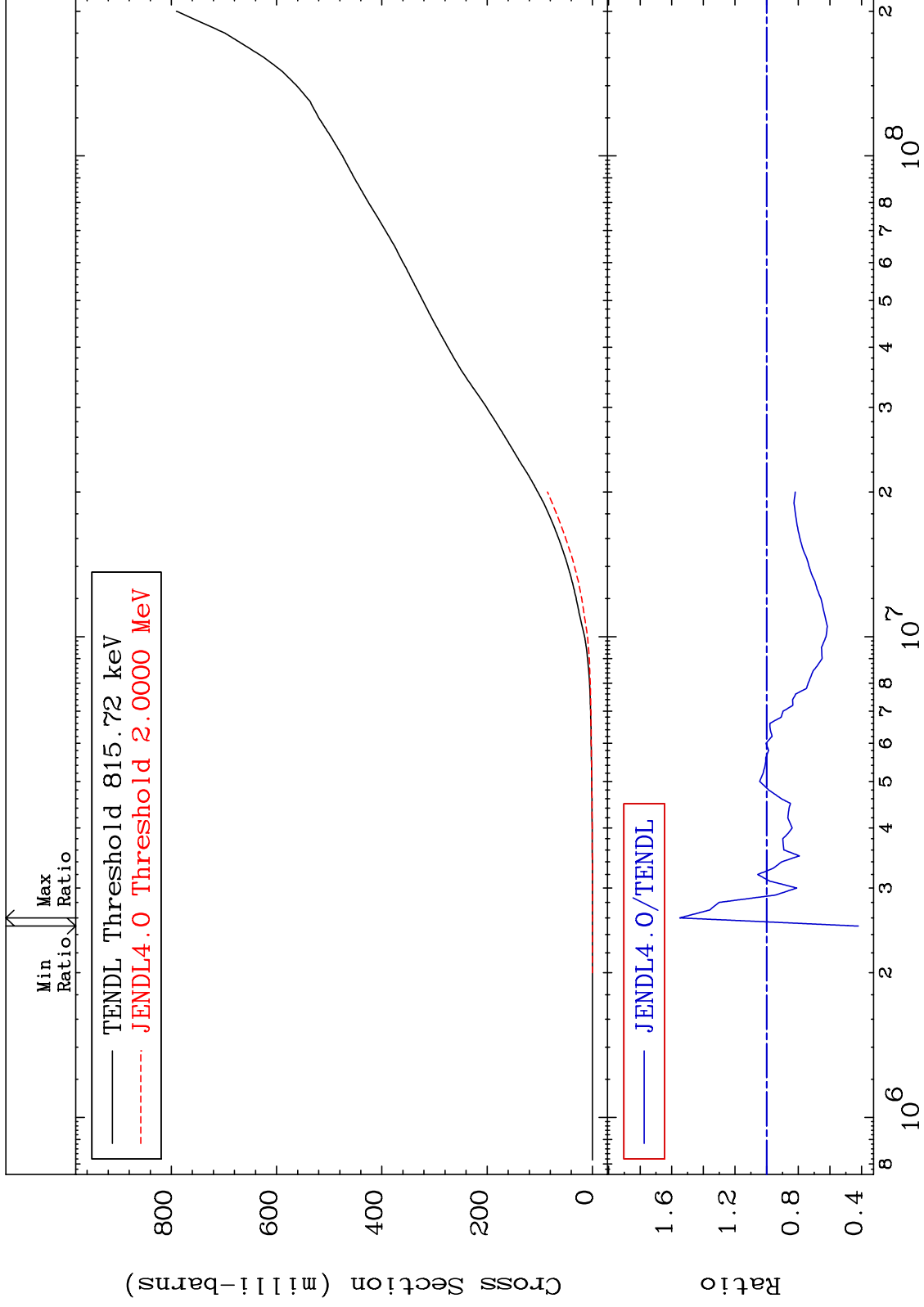
45

35-Br-81

MAT 3531

Hydrogen Production  
Cross Section

35-Br-81  
-57.93 To 54.92 %



46

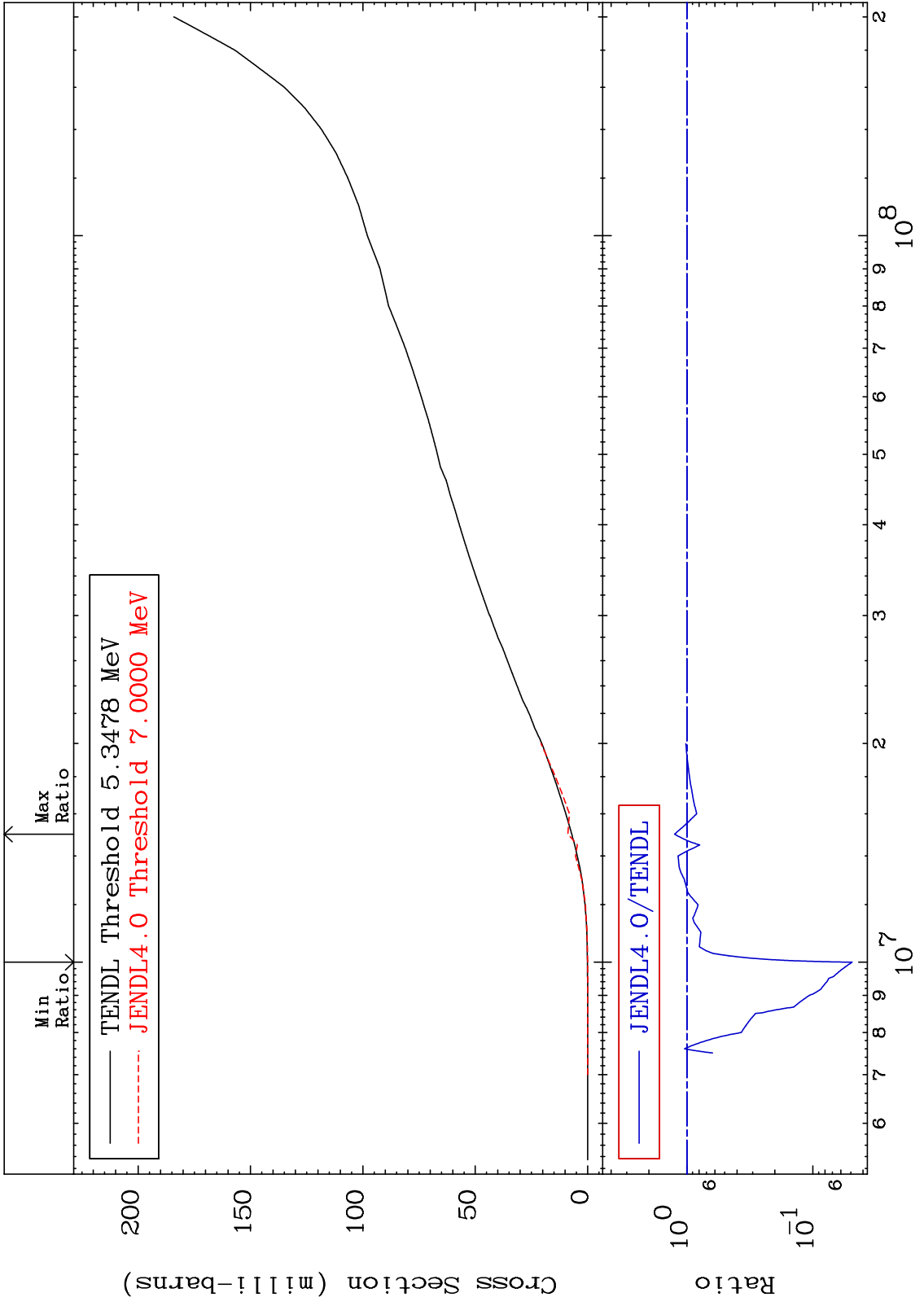
Incident Energy (eV)

35-Br-81

MAT 3531

Deuterium Production  
Cross Section

35-Br-81  
-95.13 To 25.17 %



47

Incident Energy (eV)

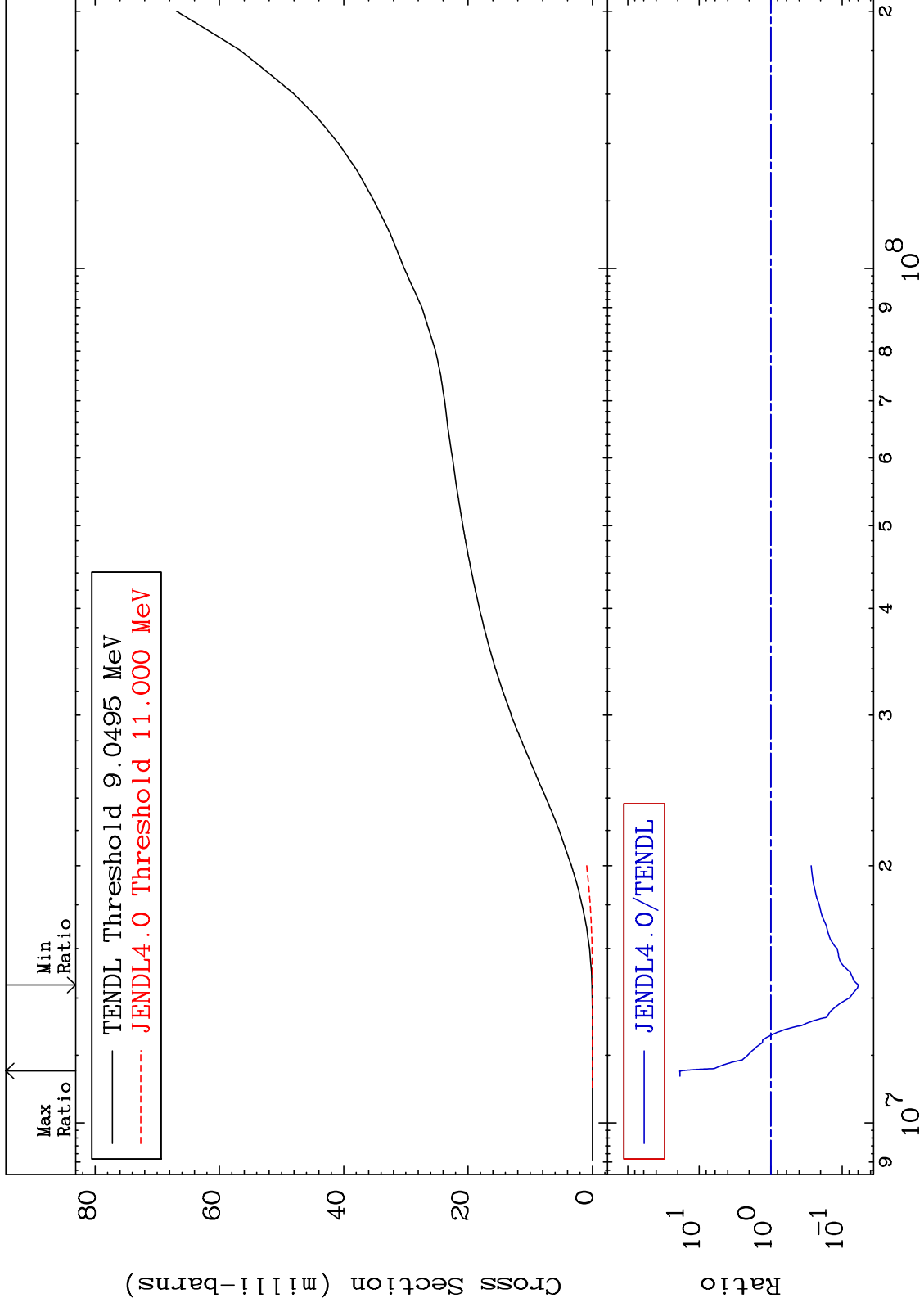
35-Br-81



MAT 3531

Tritium Production  
Cross Section

<sup>35</sup>Br-81  
-94.07 To 1771. %



48

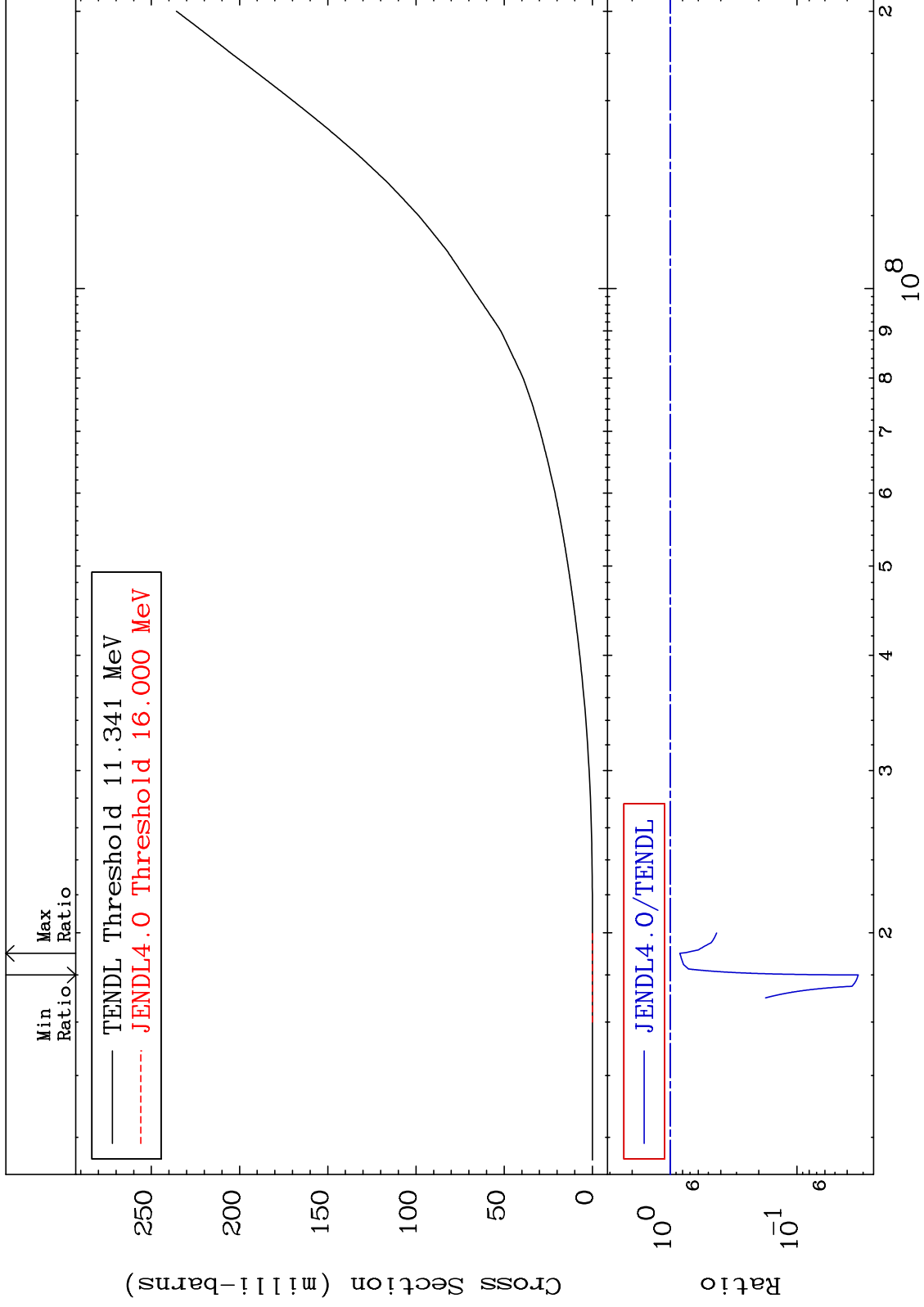
Incident Energy (eV)

<sup>35</sup>Br-81

MAT 3531

He-3 Production  
Cross Section

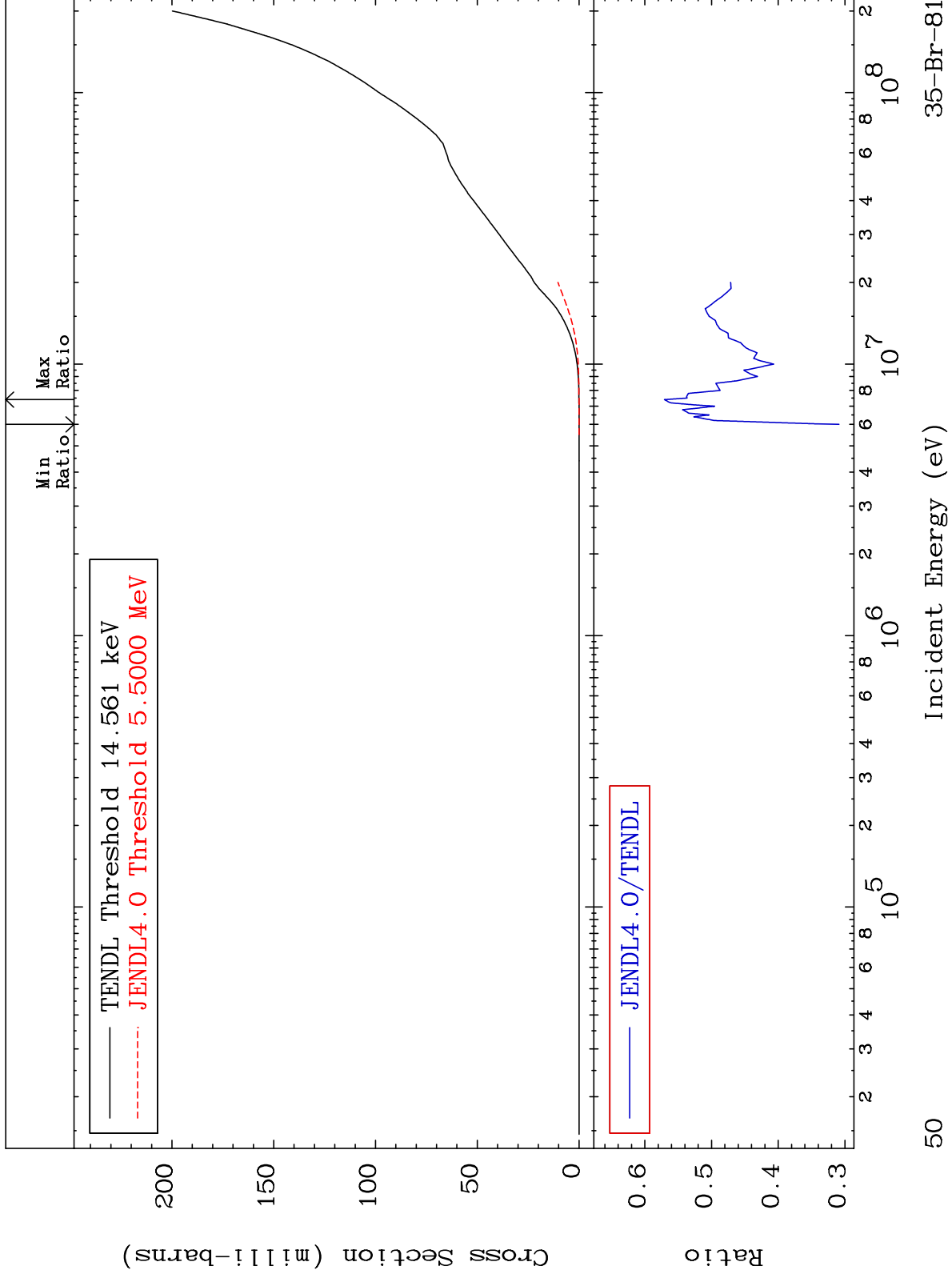
35-Br-81  
-96.73 To -15.88%



MAT 3531

He-4 Production  
Cross Section

35-Br-81  
-69.12 To -42.95%

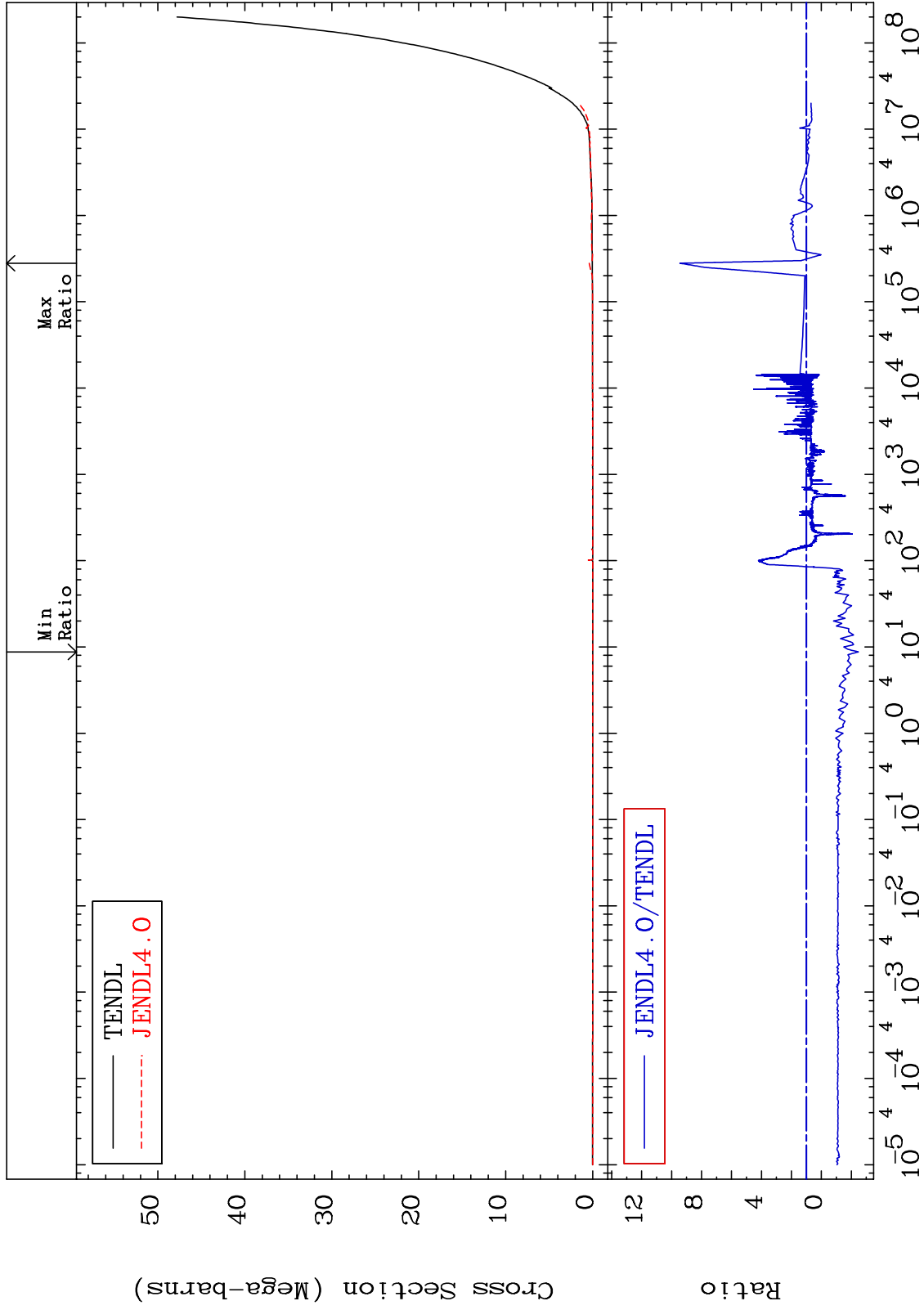


MAT 3531

Kerma total (eV-barns)  
Cross Section

35-Br-81

-347.3 To 843.7 %



51

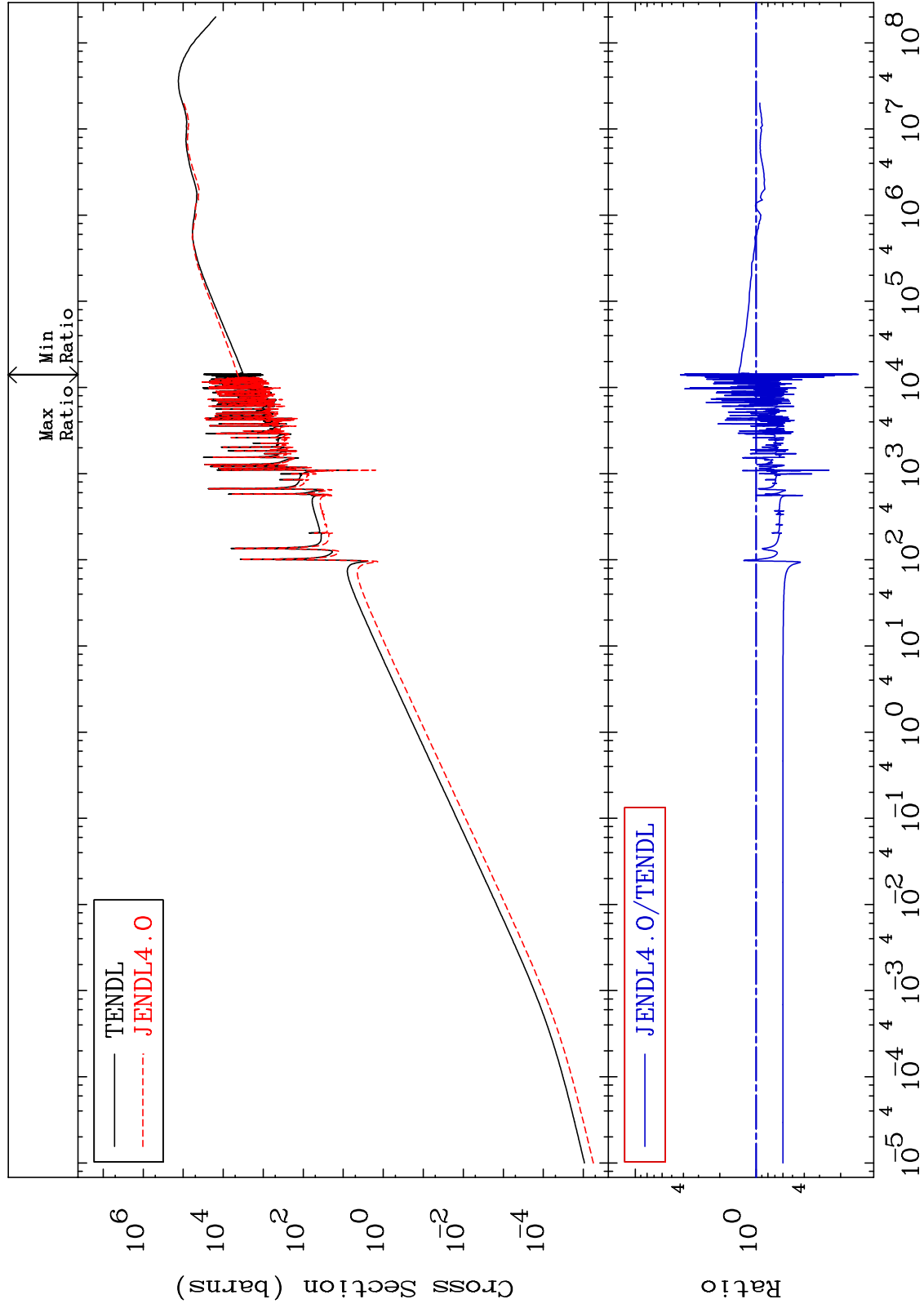
Incident Energy (eV)

35-Br-81

MAT 3531

Kerma elastic  
Cross Section

35-Br-81  
-85.76 To 323.2 %



52

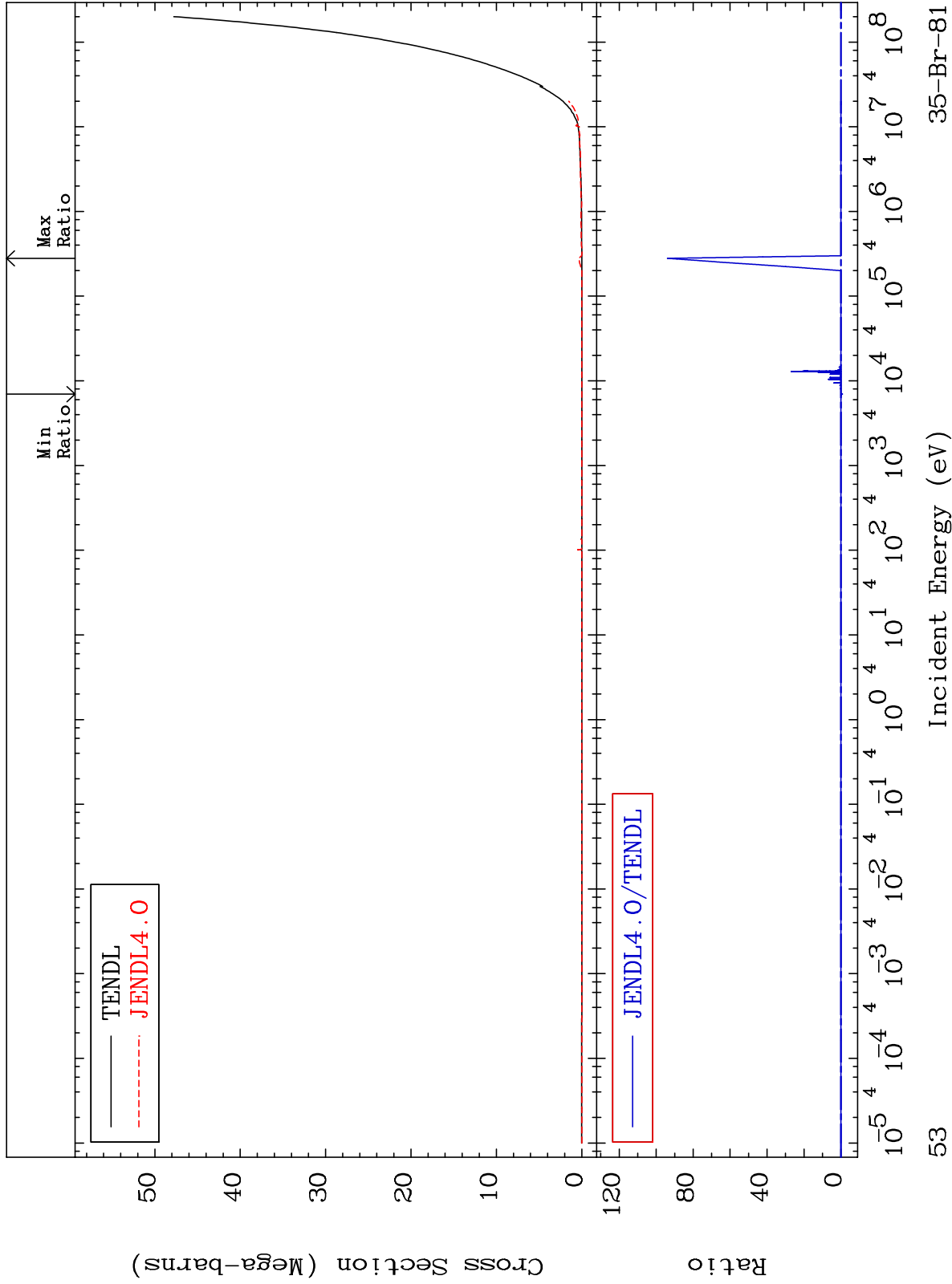
Incident Energy (eV)

35-Br-81

MAT 3531

Kerma non-elastic (all but mt2)  
Cross Section

35-Br-81  
-9999. To 9999. %



53

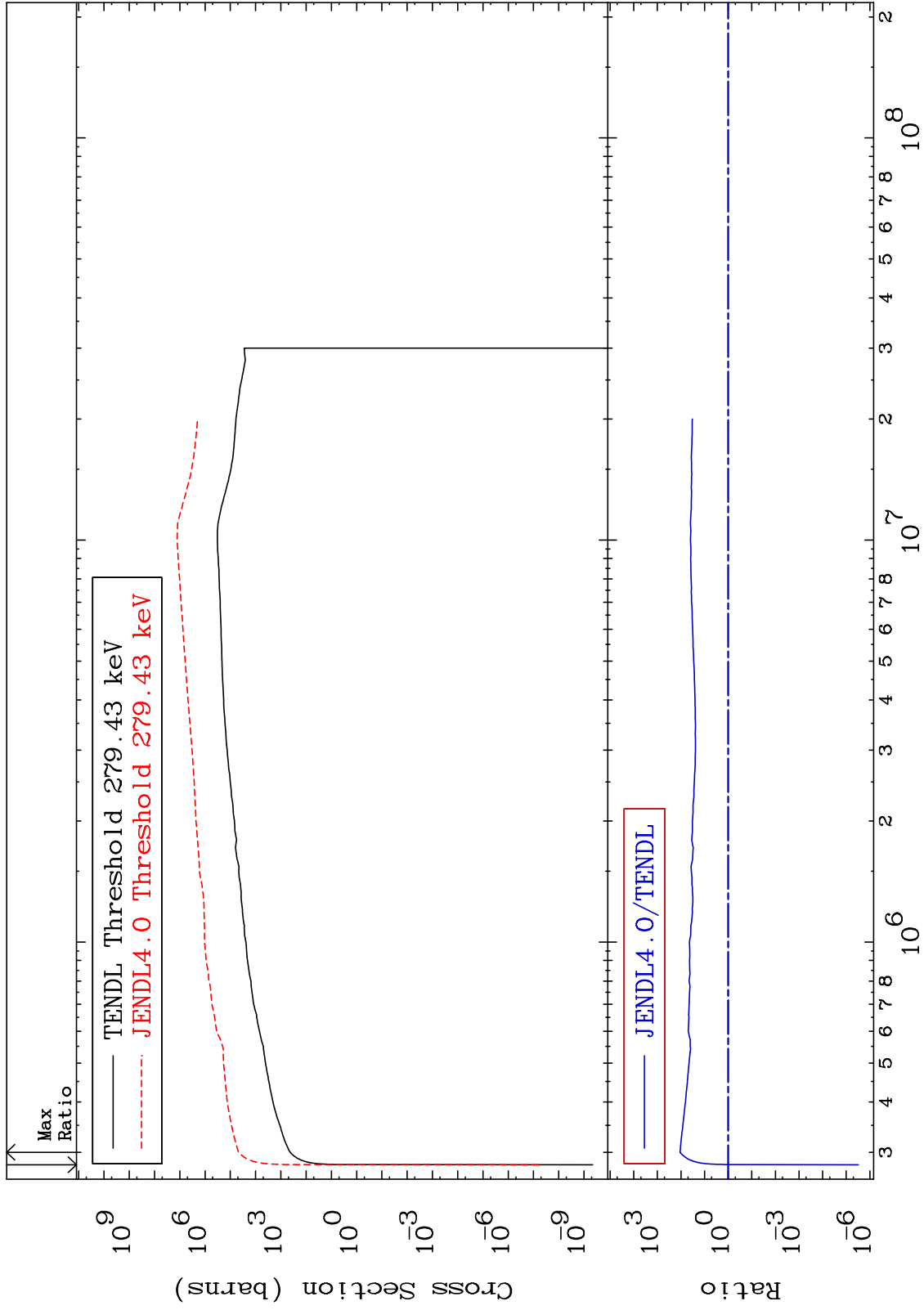
Incident Energy (eV)

35-Br-81

MAT 3531

Kerma inelastic (mt51-91)  
Cross Section

35-Br-81  
-100.0 To 9999. %



54

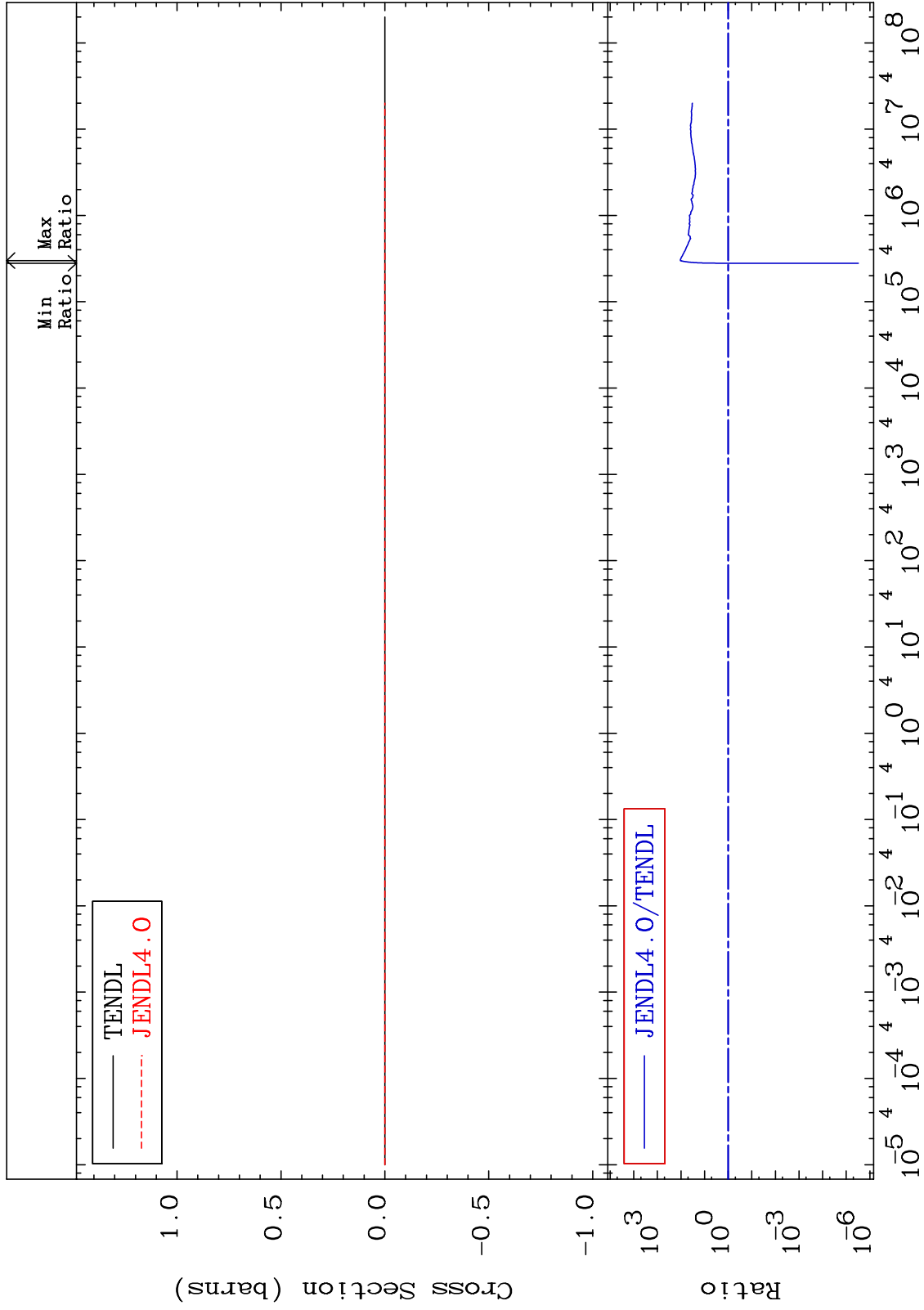
Incident Energy (eV)

35-Br-81

MAT 3531

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

35-Br-81  
-100.0 To 9999. %



55

Incident Energy (eV)

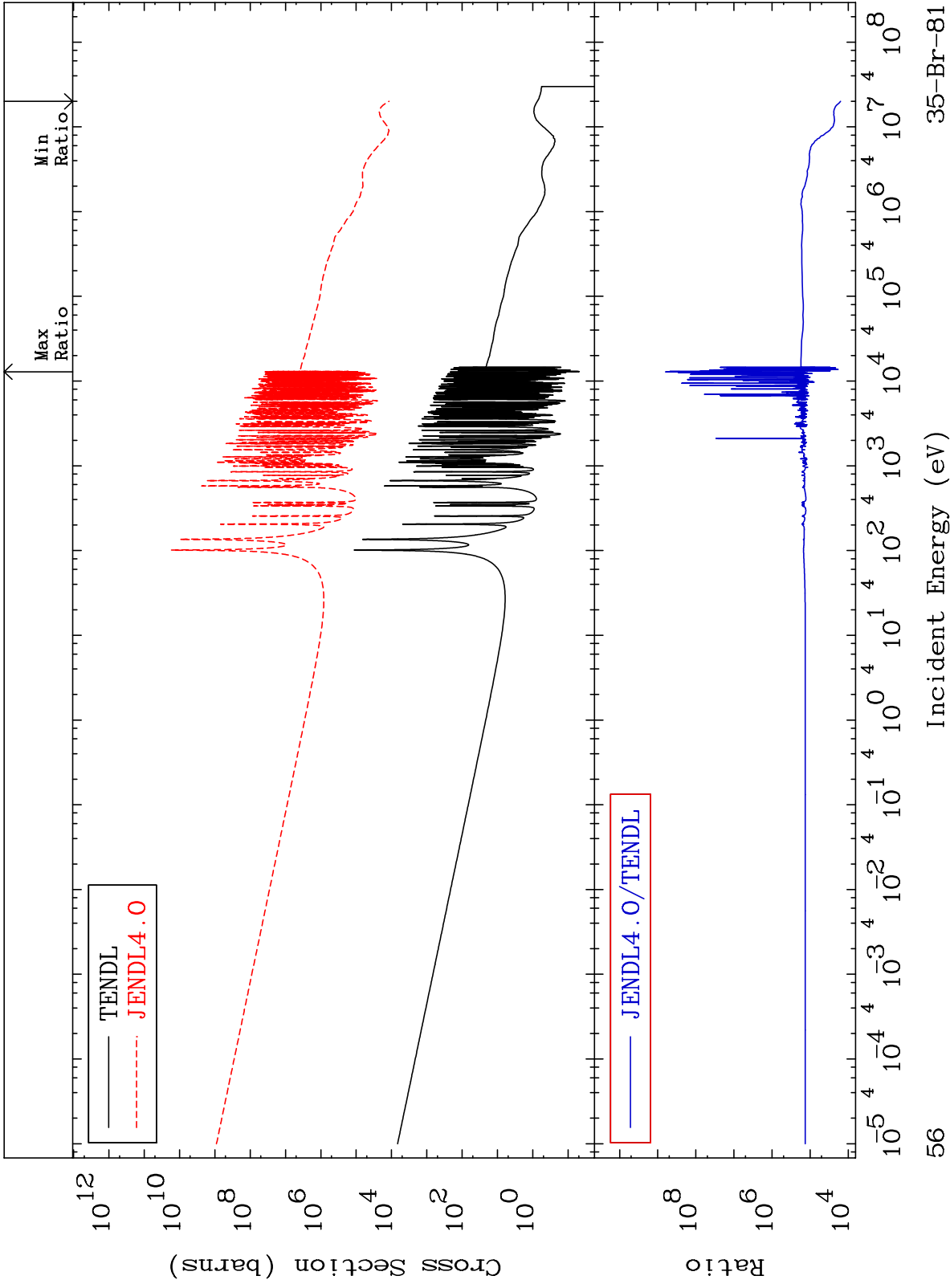
35-Br-81



MAT 3531

Kerma capture (mt102)  
Cross Section

35-Br-81  
9999. To 9999. %



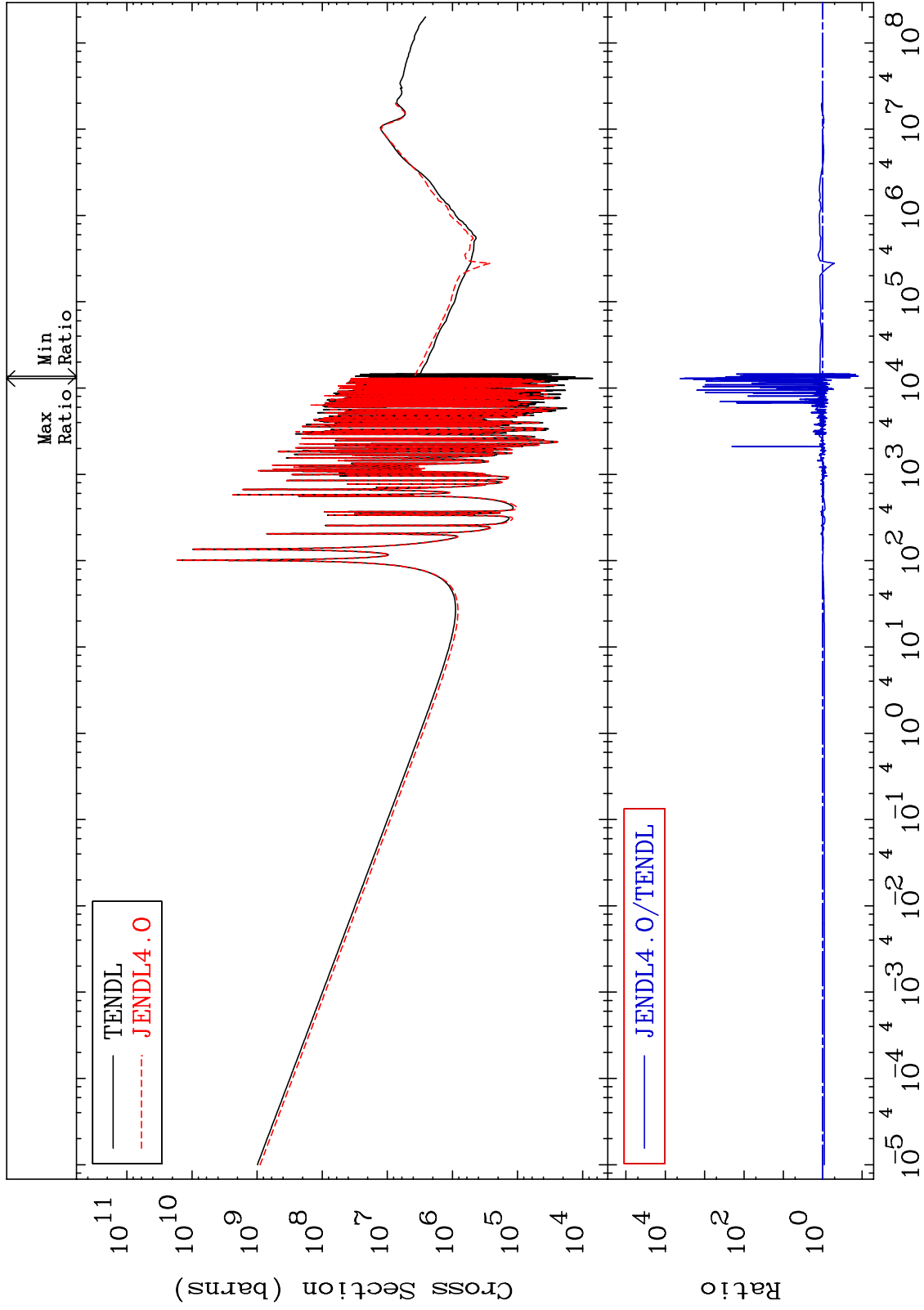
35-Br-81

56

MAT 3531

Total photon (eV-barns)  
Cross Section

35-Br-81  
-87.67 To 9999. %



57

Incident Energy (eV)

35-Br-81

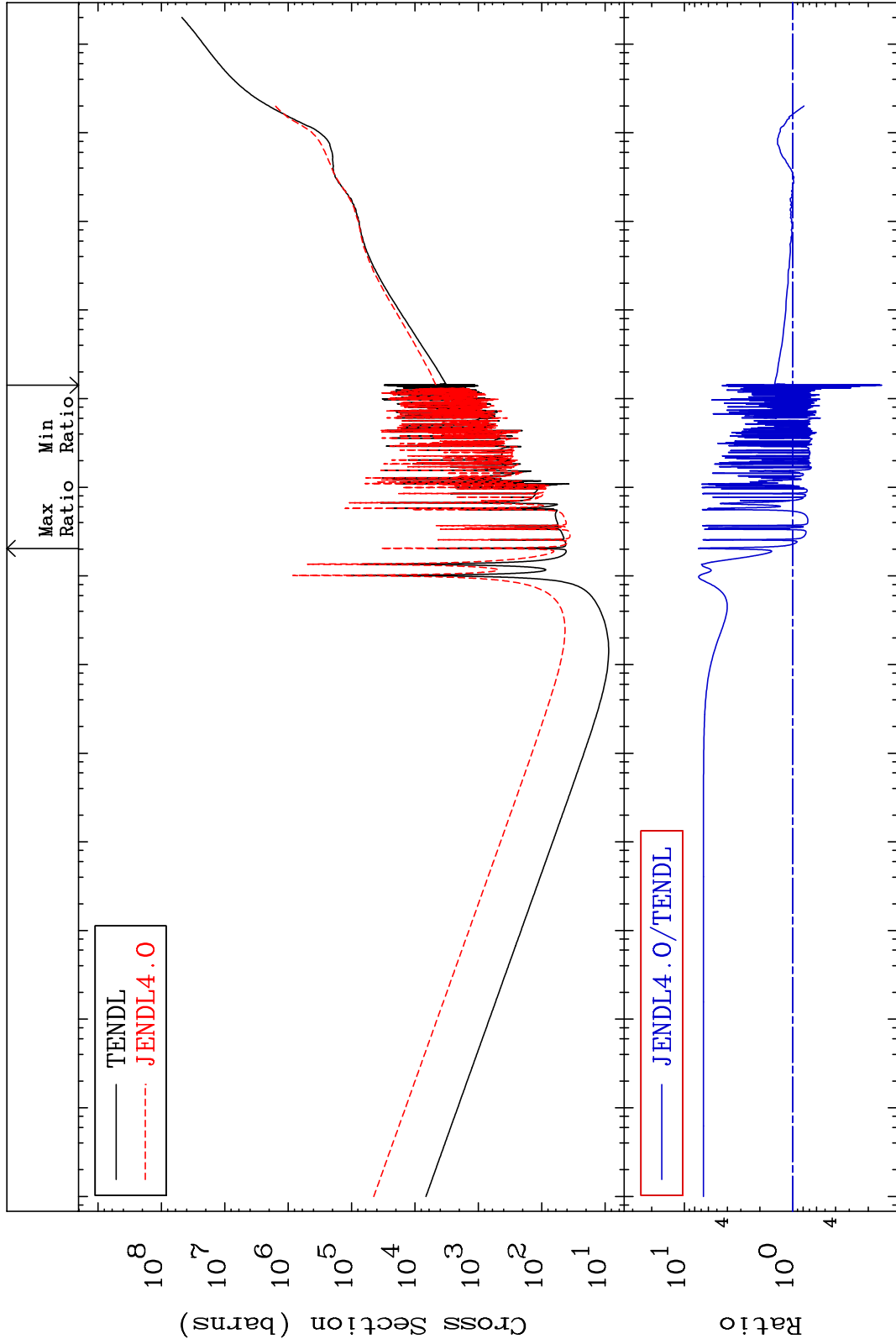
MAT 3531

Total kinematic kerma (high limit)

35-Br-81

-84.94 To 641.9 %

Cross Section



58

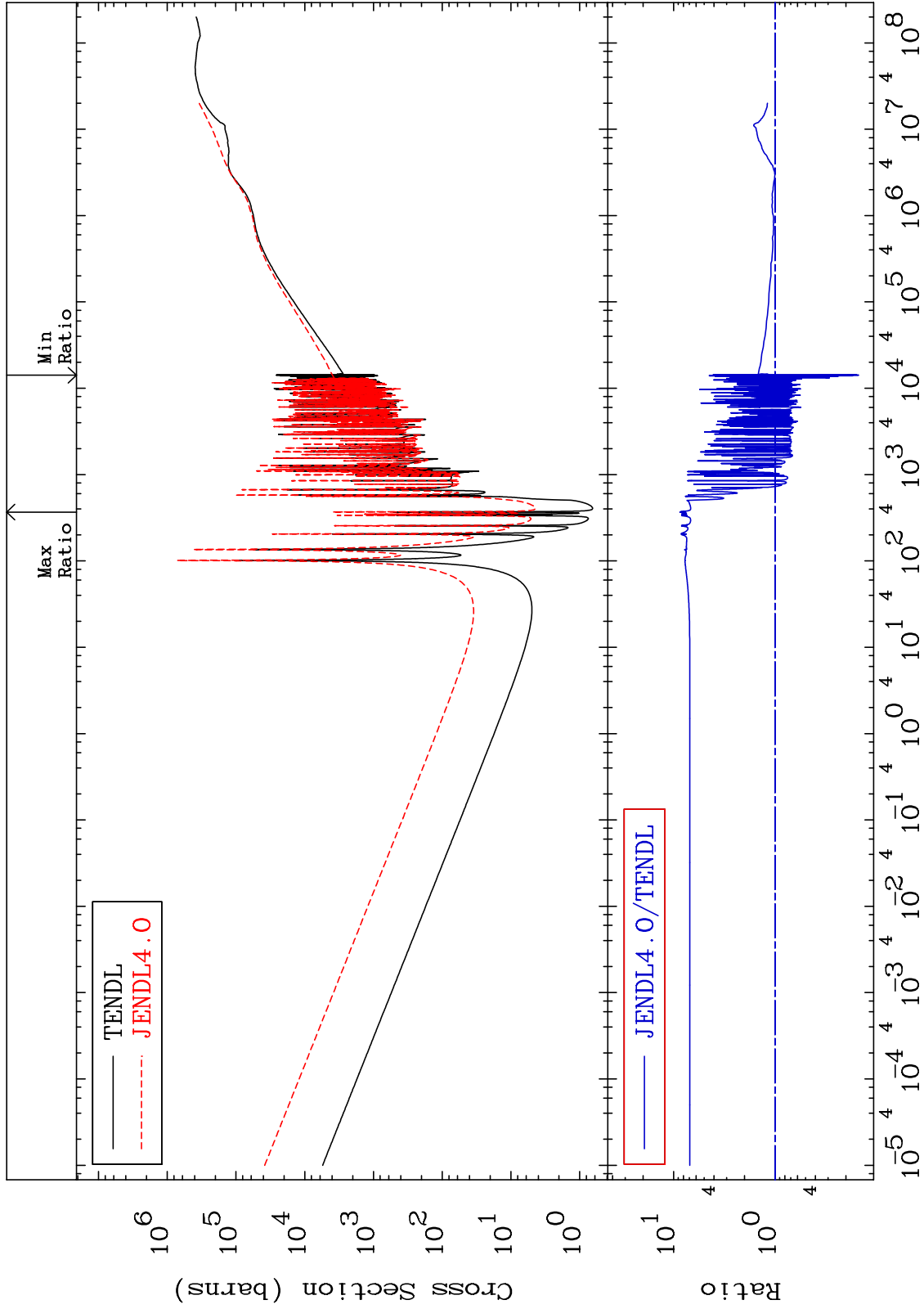
35-Br-81

35-Br-81

MAT 3531

Dpa total (eV-barns)  
Cross Section

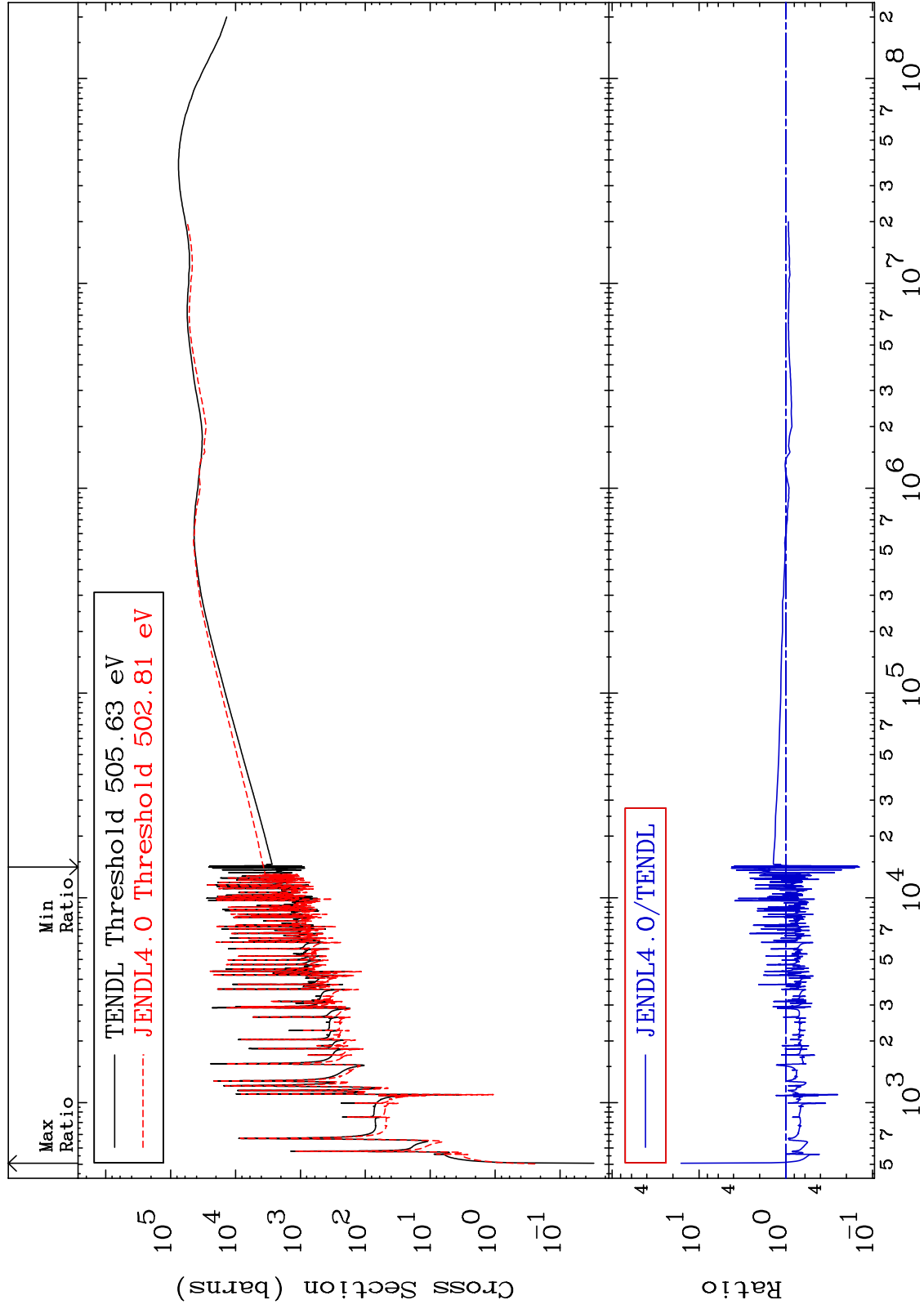
35-Br-81  
-84.94 To 765.4 %



MAT 3531

Dpa elastic (mt2)  
Cross Section

35-Br-81  
-85.76 To 1509. %



60

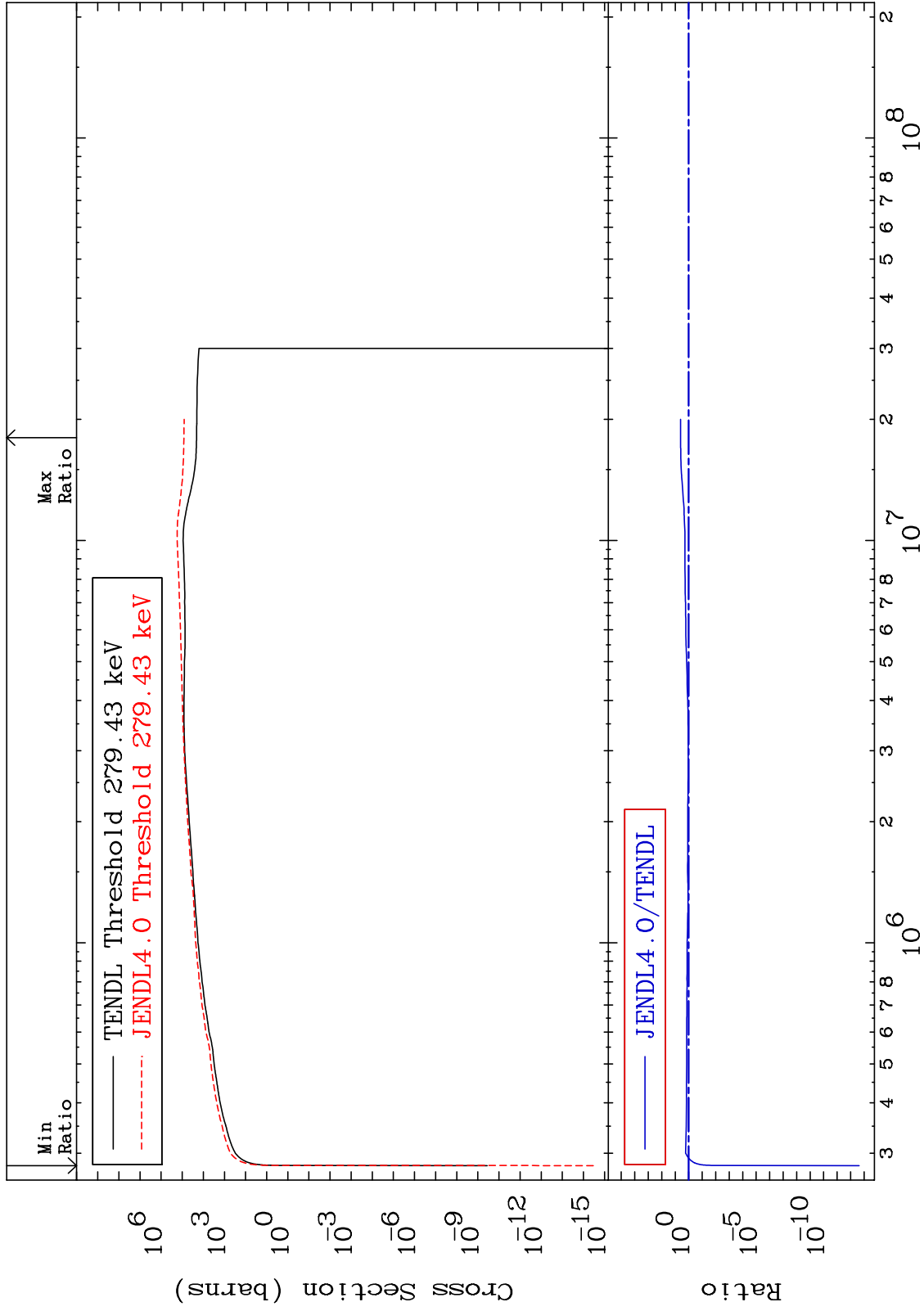
Incident Energy (eV)

35-Br-81

MAT 3531

Dpa inelastic (mt51-91)  
Cross Section

35-Br-81  
-100.0 To 297.9 %



61

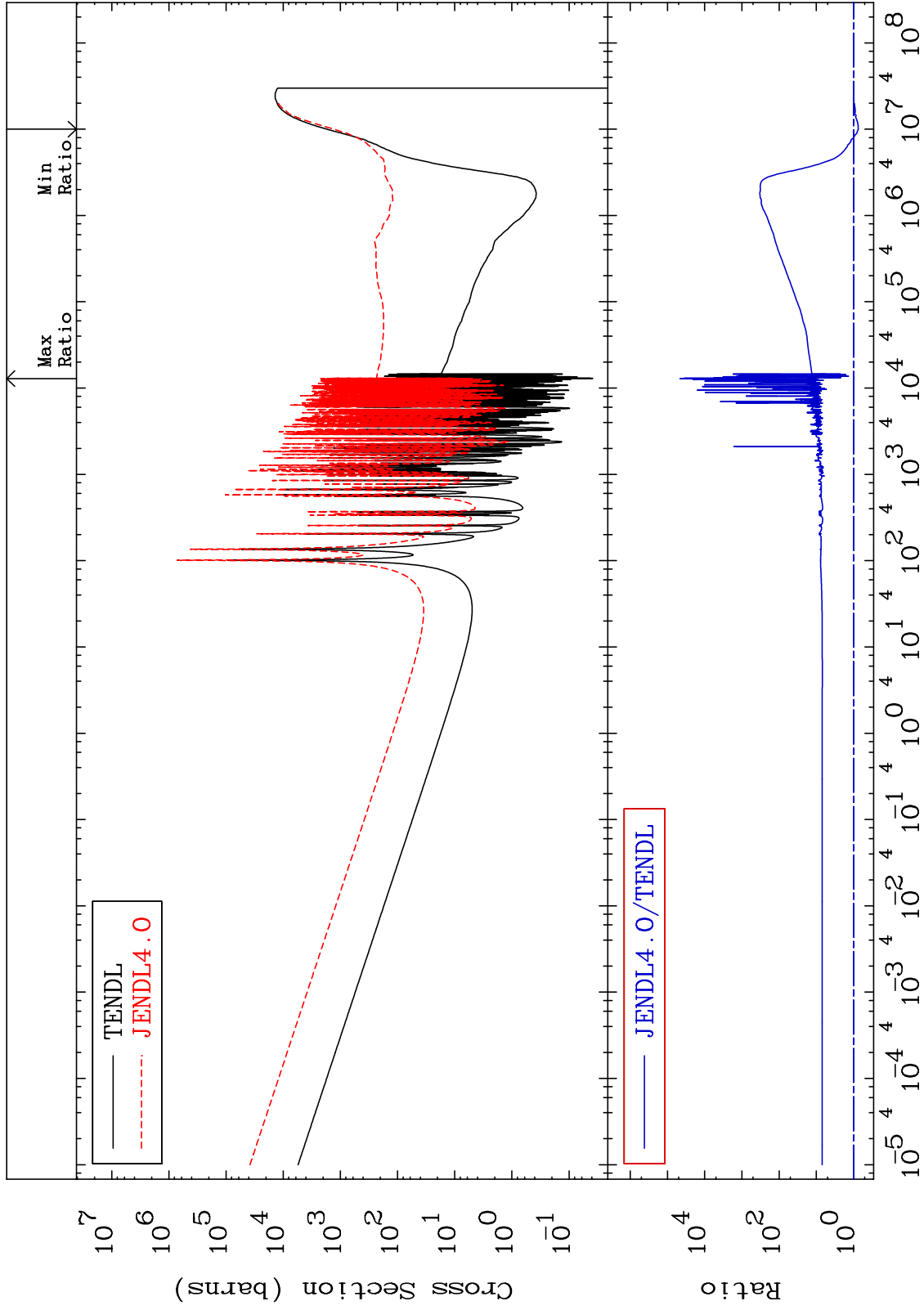
Incident Energy (eV)

35-Br-81

MAT 3531

Dpa disappearance (mt102 -120)  
Cross Section

35-Br-81  
-25.82 To 9999. %



62

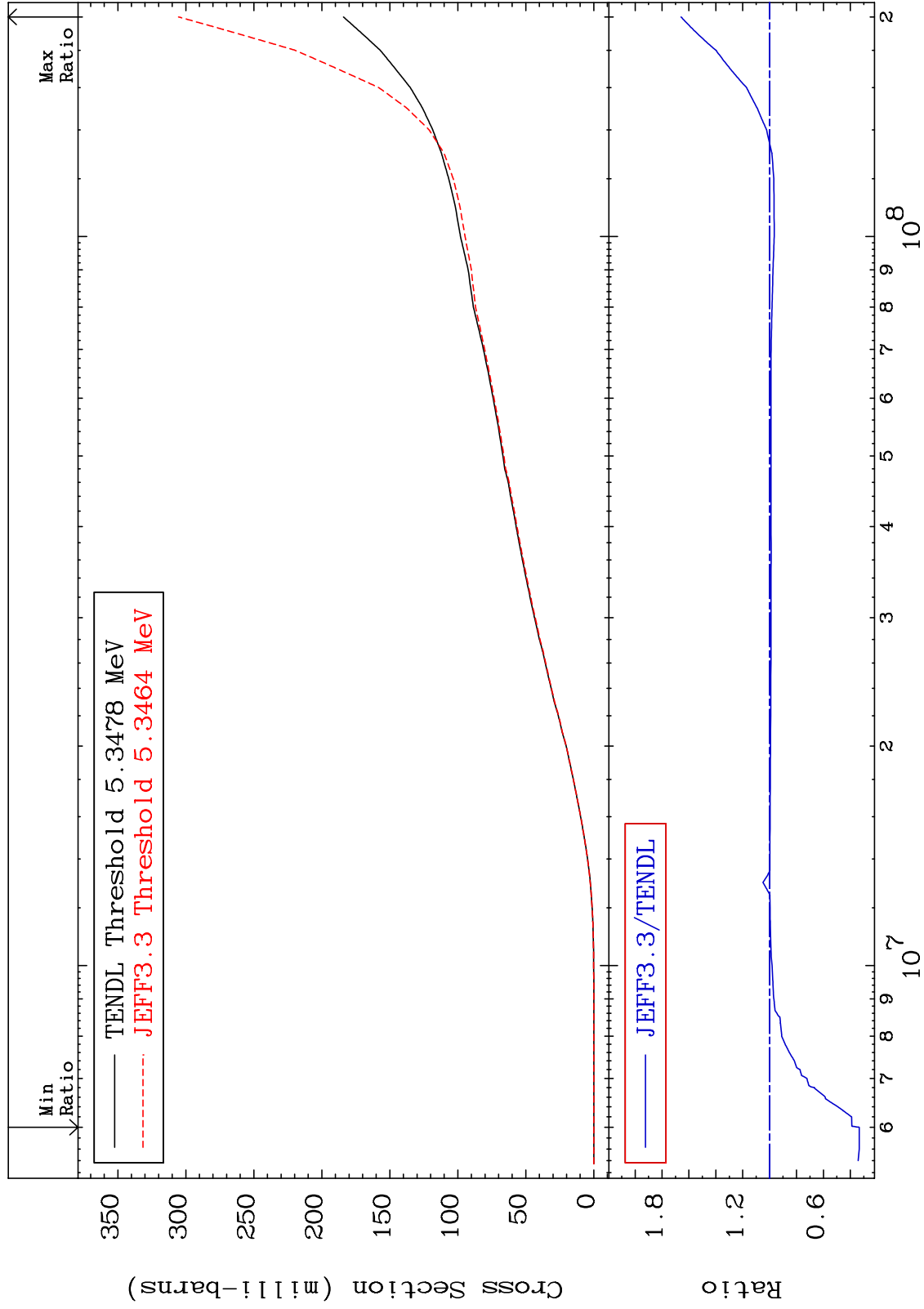
Incident Energy (eV)

35-Br-81

MAT 3531

Deuterium Production  
Cross Section

35-Br-81  
-66.68 To 65.84 %



63

Incident Energy (eV)

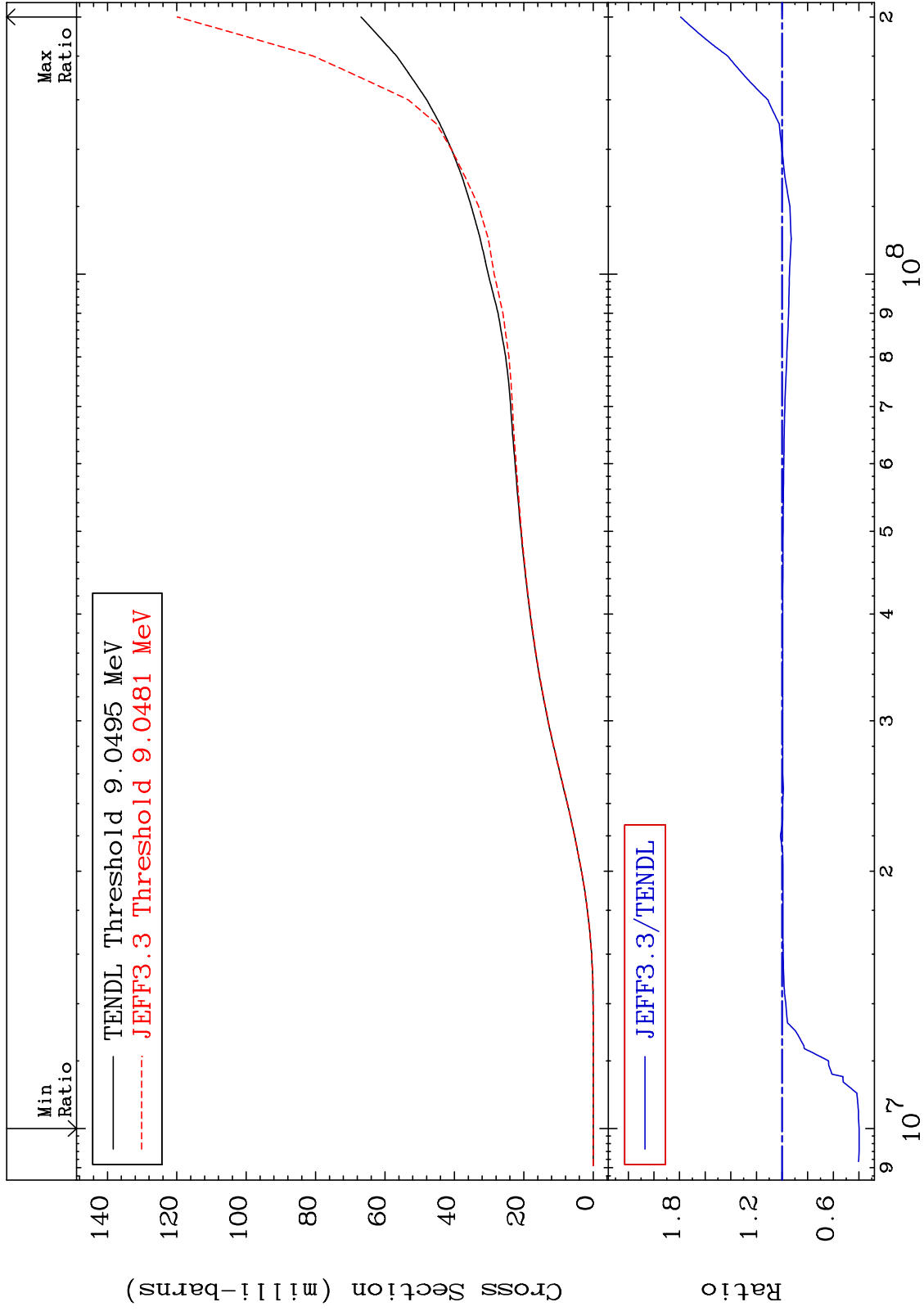
35-Br-81



MAT 3531

Tritium Production  
Cross Section

35-Br-81  
-60.16 To 79.16 %



64

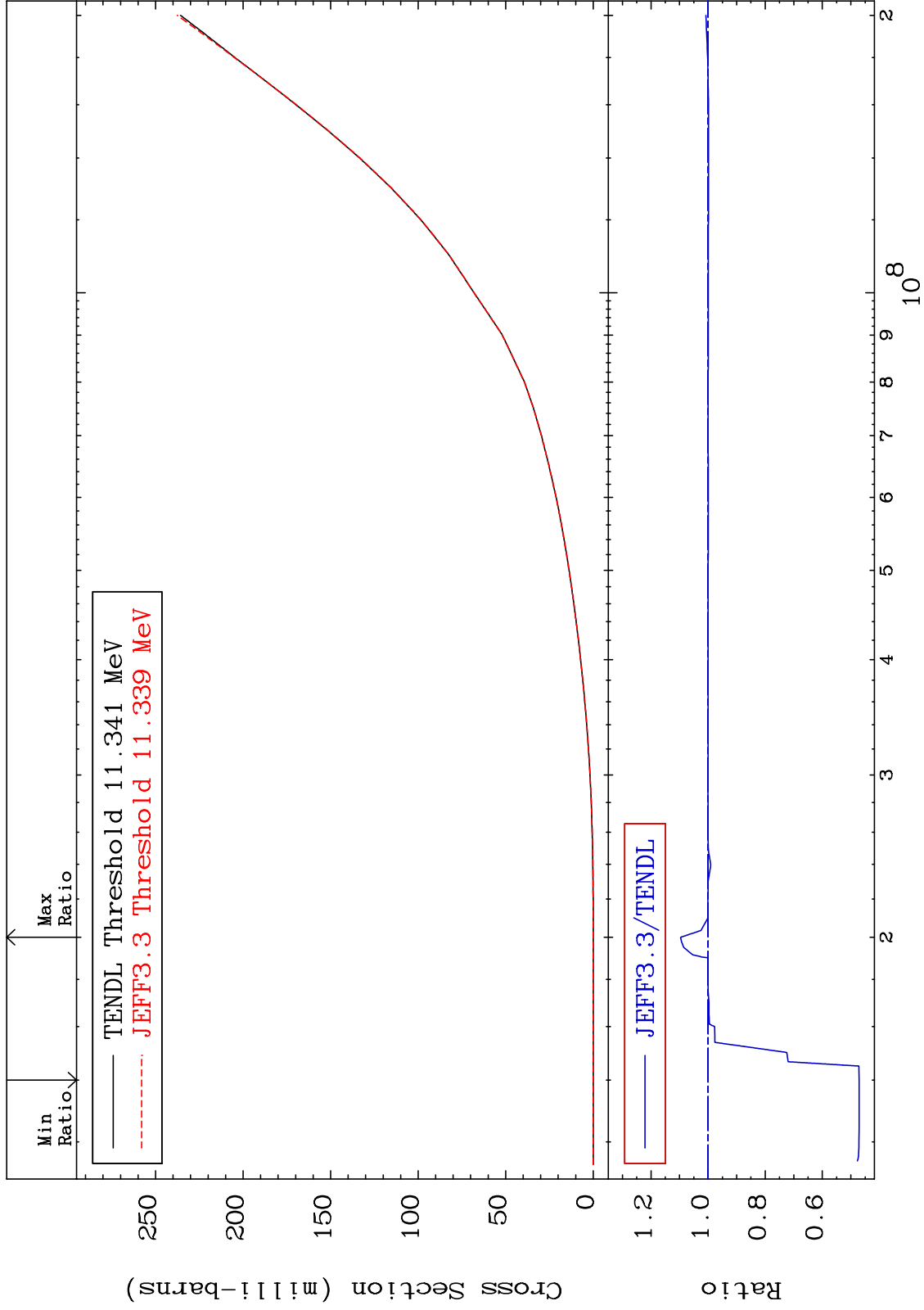
Incident Energy (eV)

35-Br-81

MAT 3531

He-3 Production  
Cross Section

35-Br-81  
-52.91 To 9.629 %



65

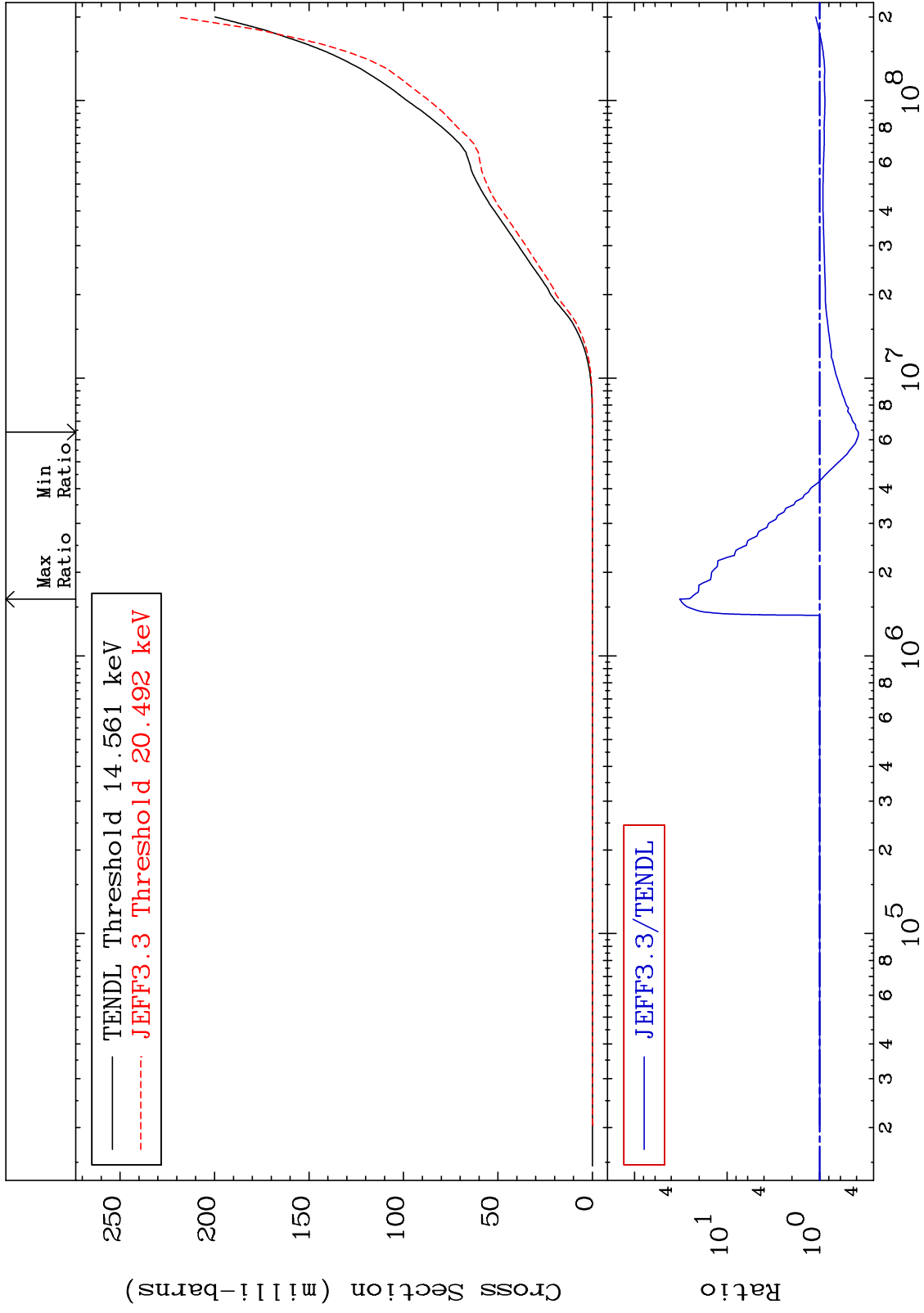
Incident Energy (eV)

35-Br-81

MAT 3531

He-4 Production  
Cross Section

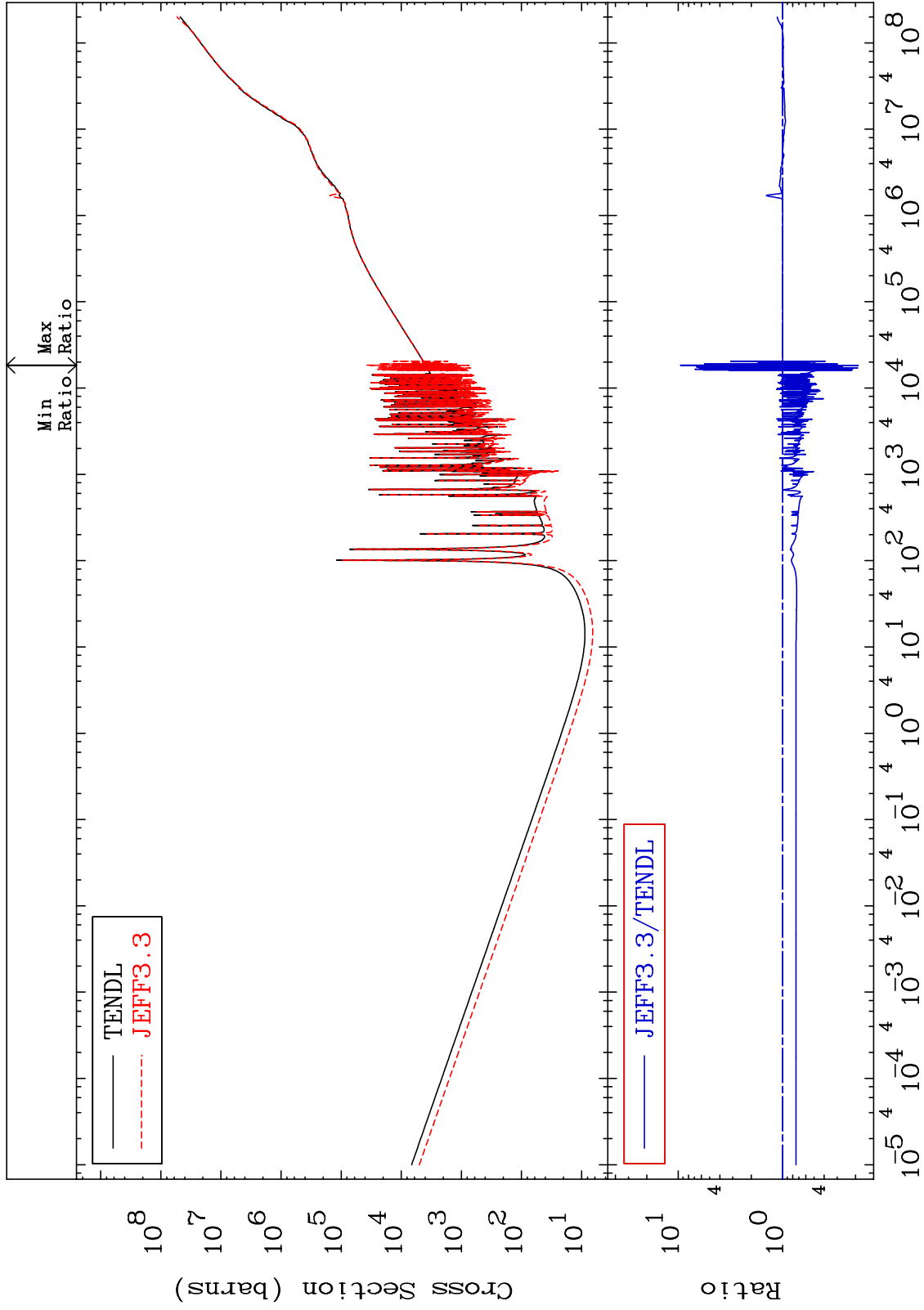
35-Br-81  
-61.68 To 3139. %



MAT 3531

Kerma total (eV-barns)  
Cross Section

35-Br-81  
-81.24 To 861.9 %



67

Incident Energy (eV)

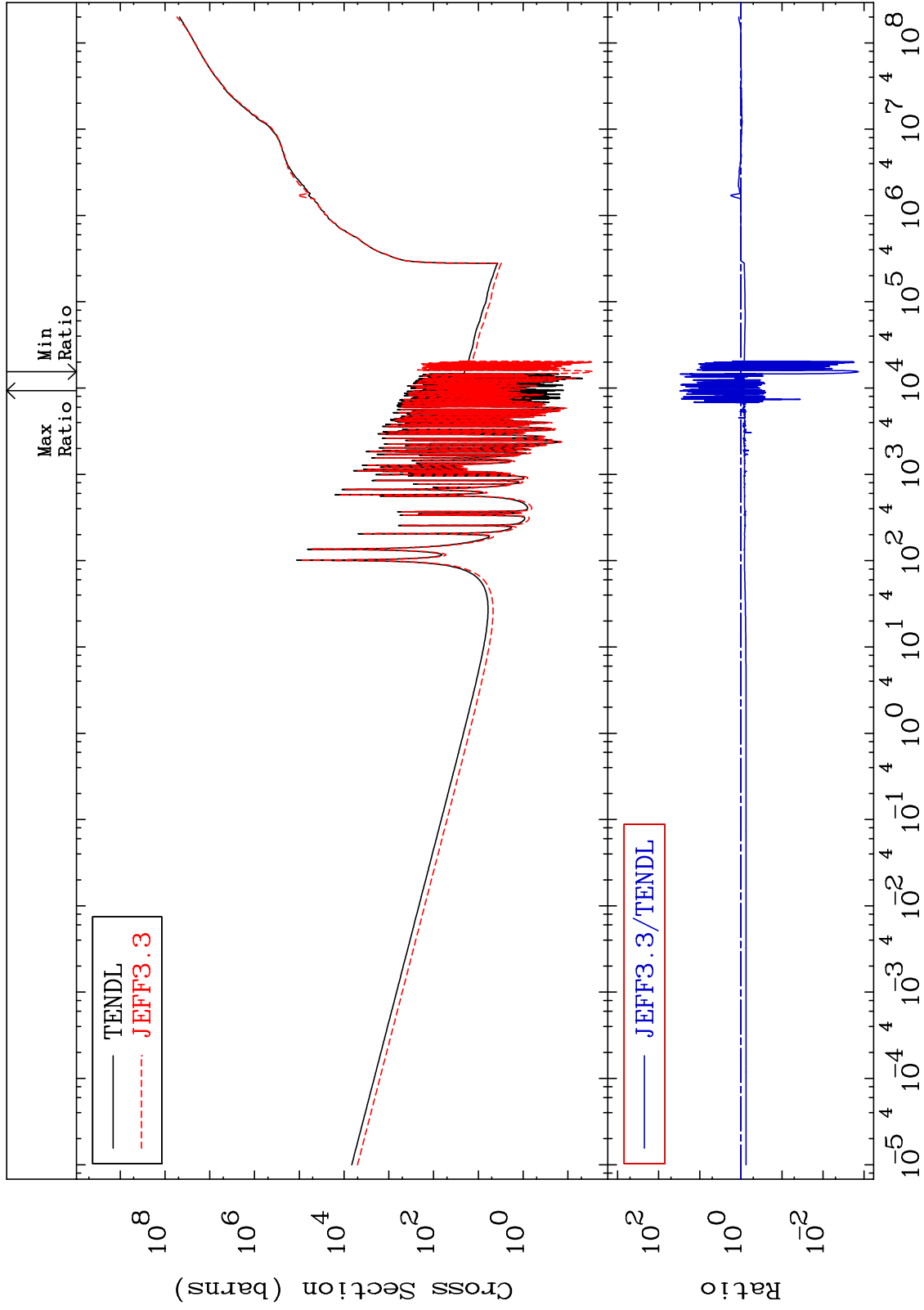
35-Br-81



MAT 3531

Kerma non-elastic (all but mt2)  
Cross Section

35-Br-81  
-99.86 To 2923. %



69

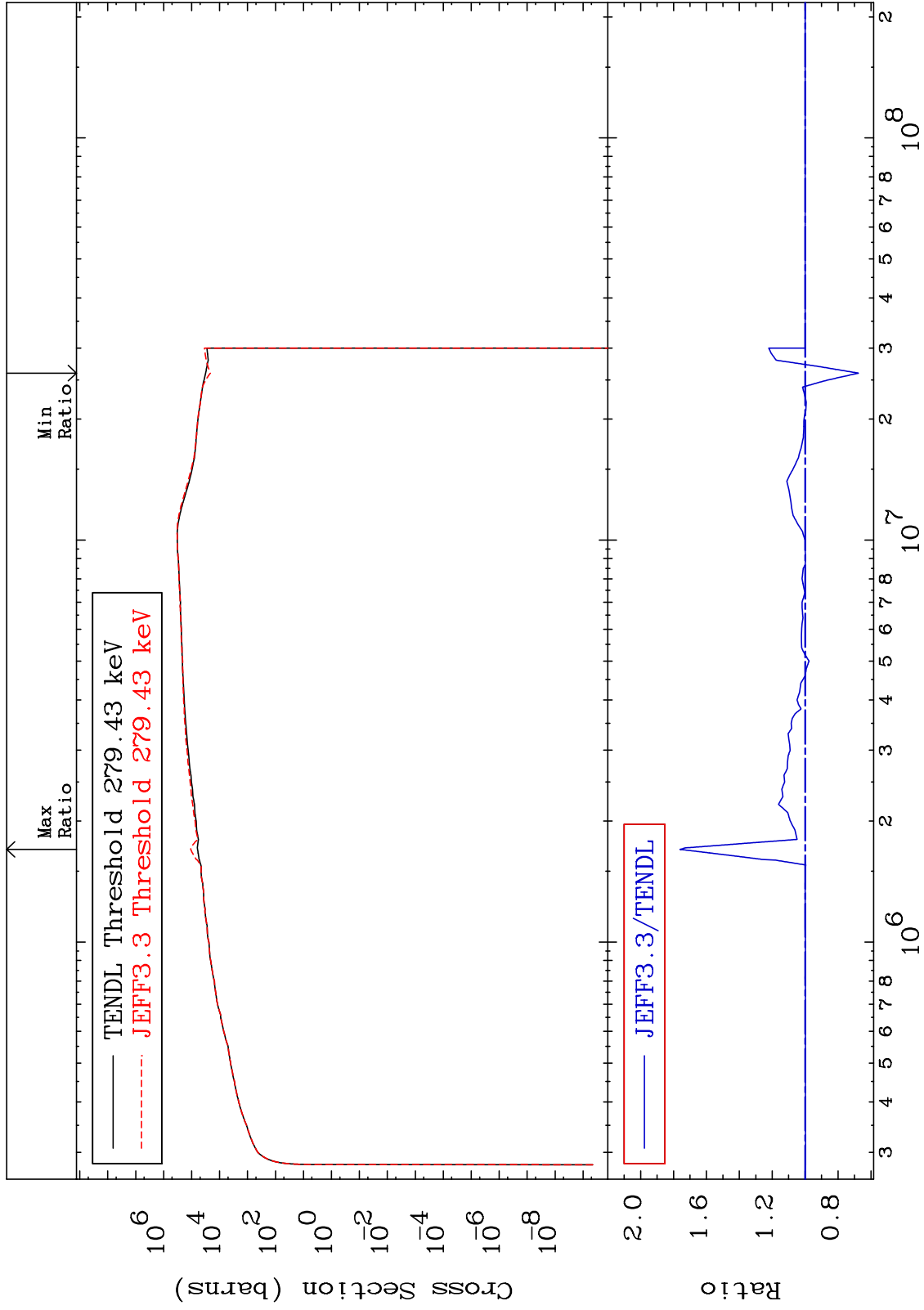
Incident Energy (eV)

35-Br-81

MAT 3531

Kerma inelastic (mt51-91)  
Cross Section

35-Br-81  
-32.39 To 76.05 %



70

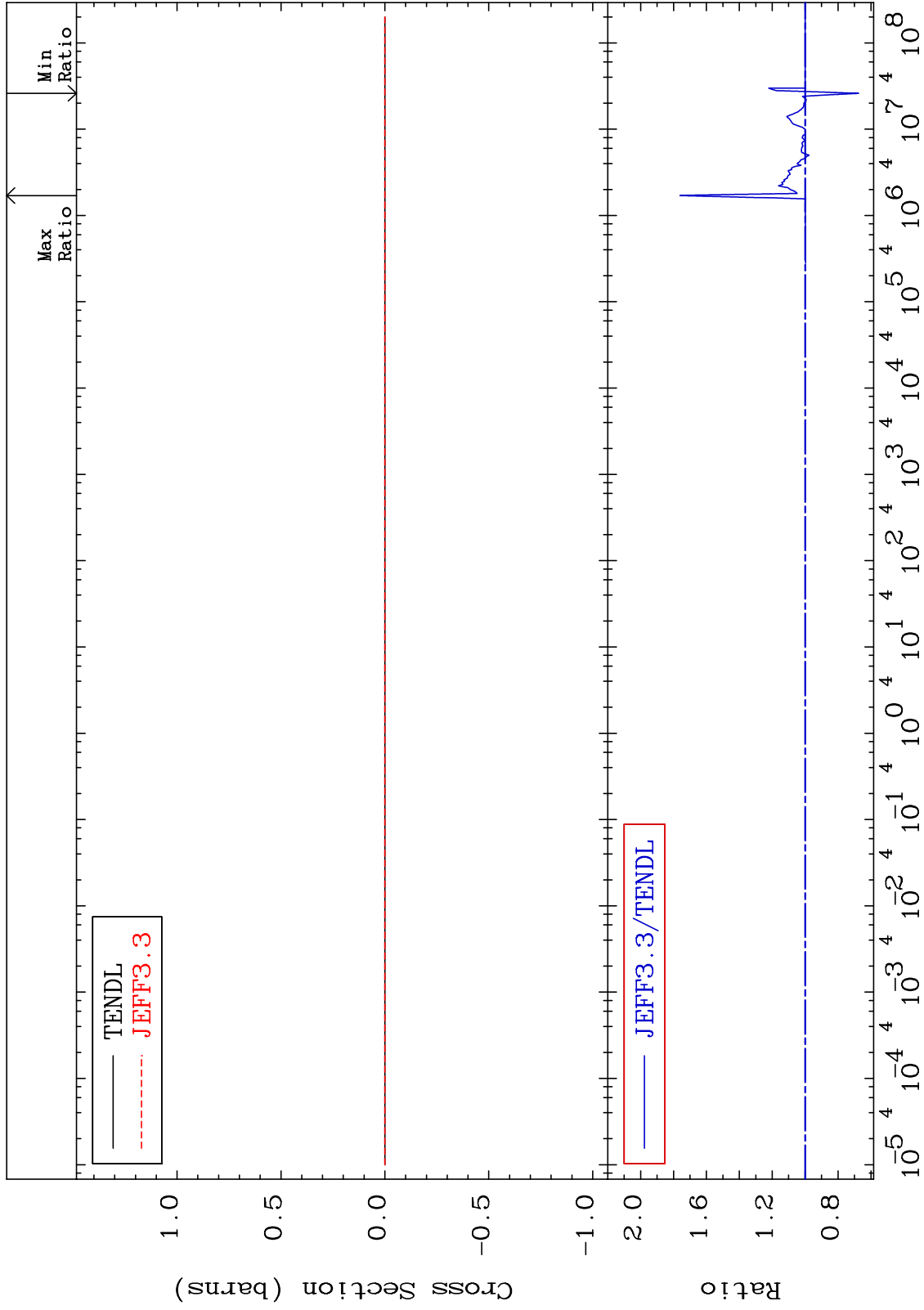
Incident Energy (eV)

35-Br-81

MAT 3531

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

35-Br-81  
-32.39 To 76.05 %



71

Incident Energy (eV)

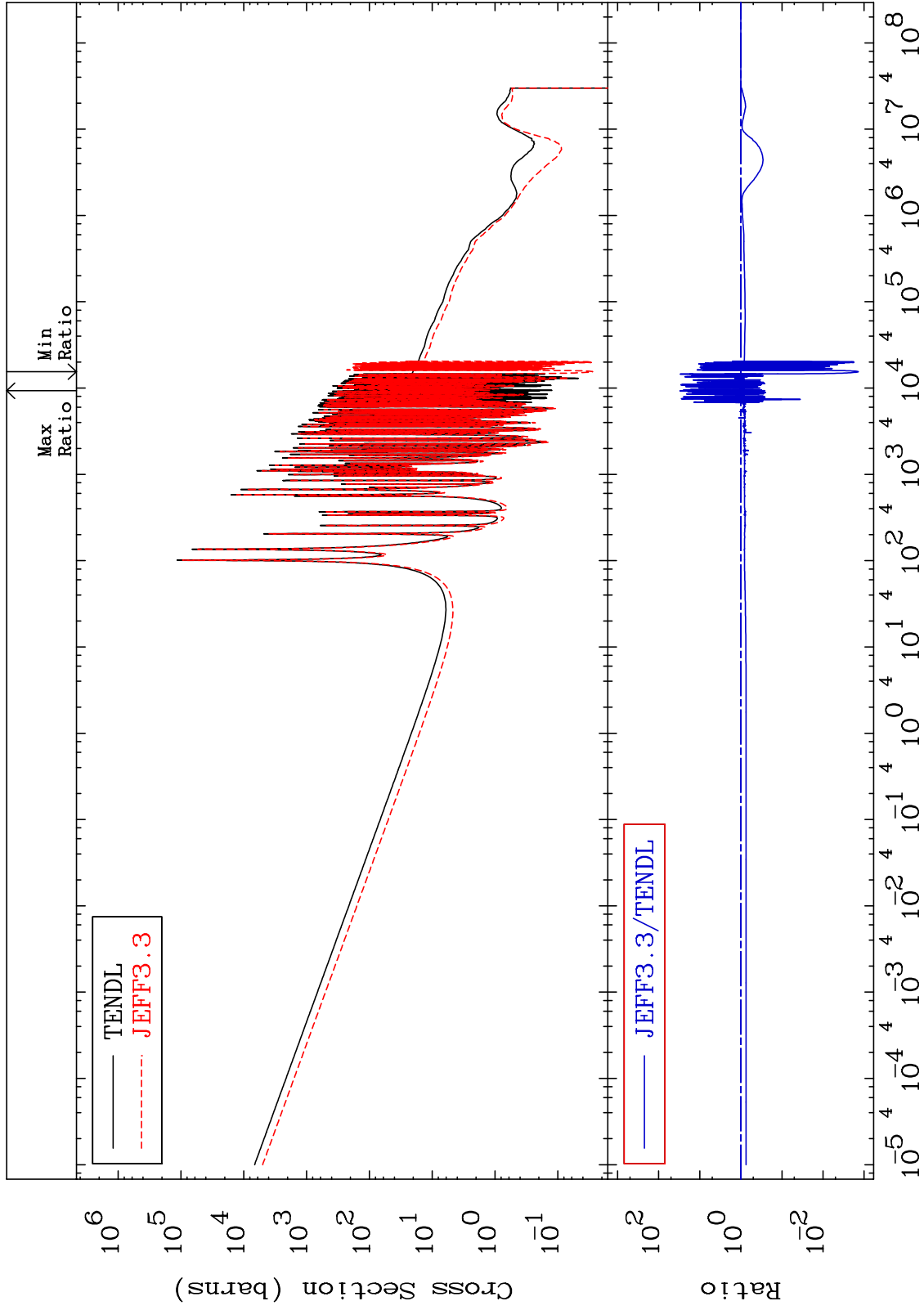
35-Br-81



MAT 3531

Kerma capture (mt102)  
Cross Section

35-Br-81  
-99.86 To 2923. %



72

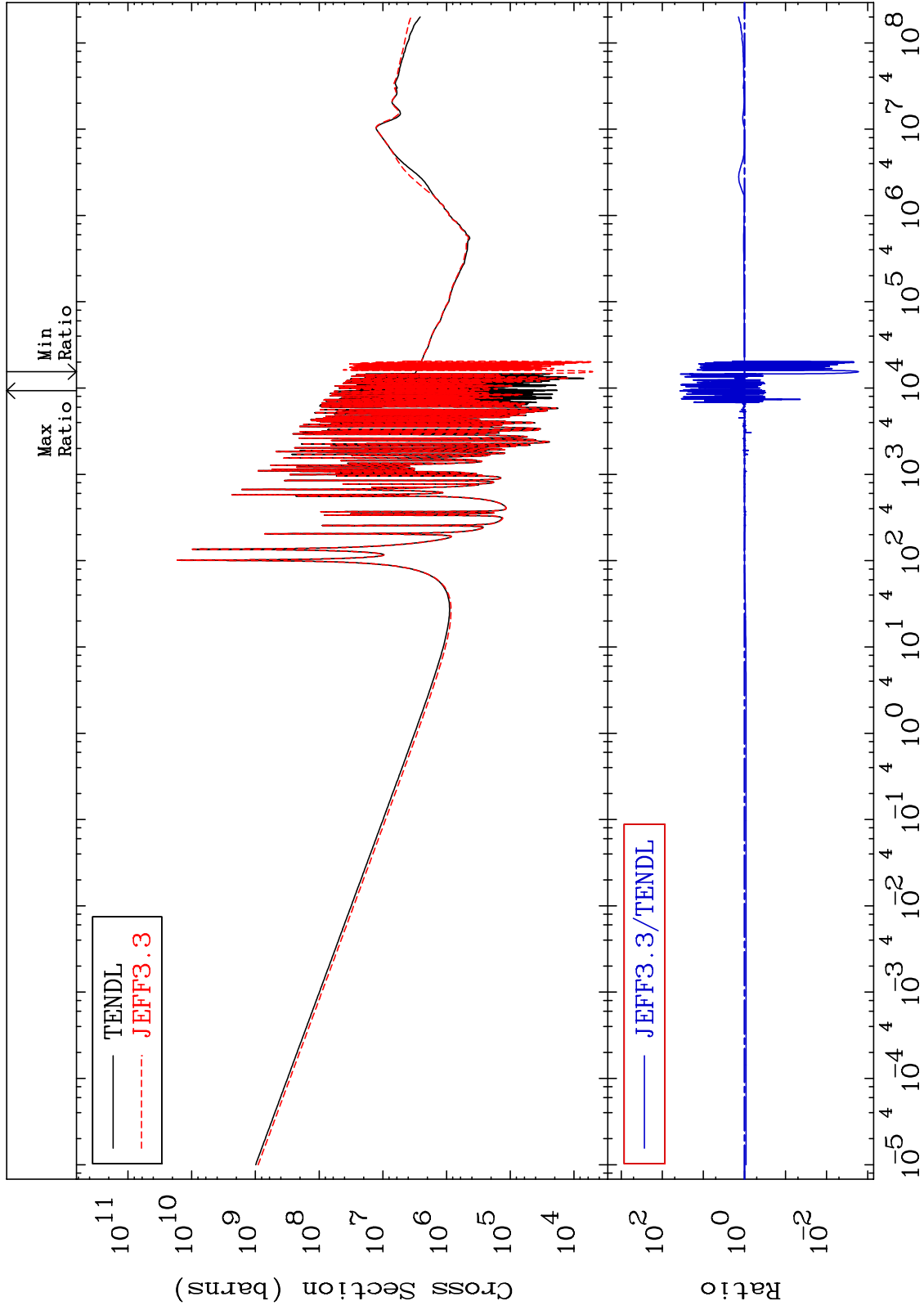
Incident Energy (eV)

35-Br-81

MAT 3531

Total photon (eV-barns)  
Cross Section

35-Br-81  
-99.83 To 3599. %



73

Incident Energy (eV)

35-Br-81

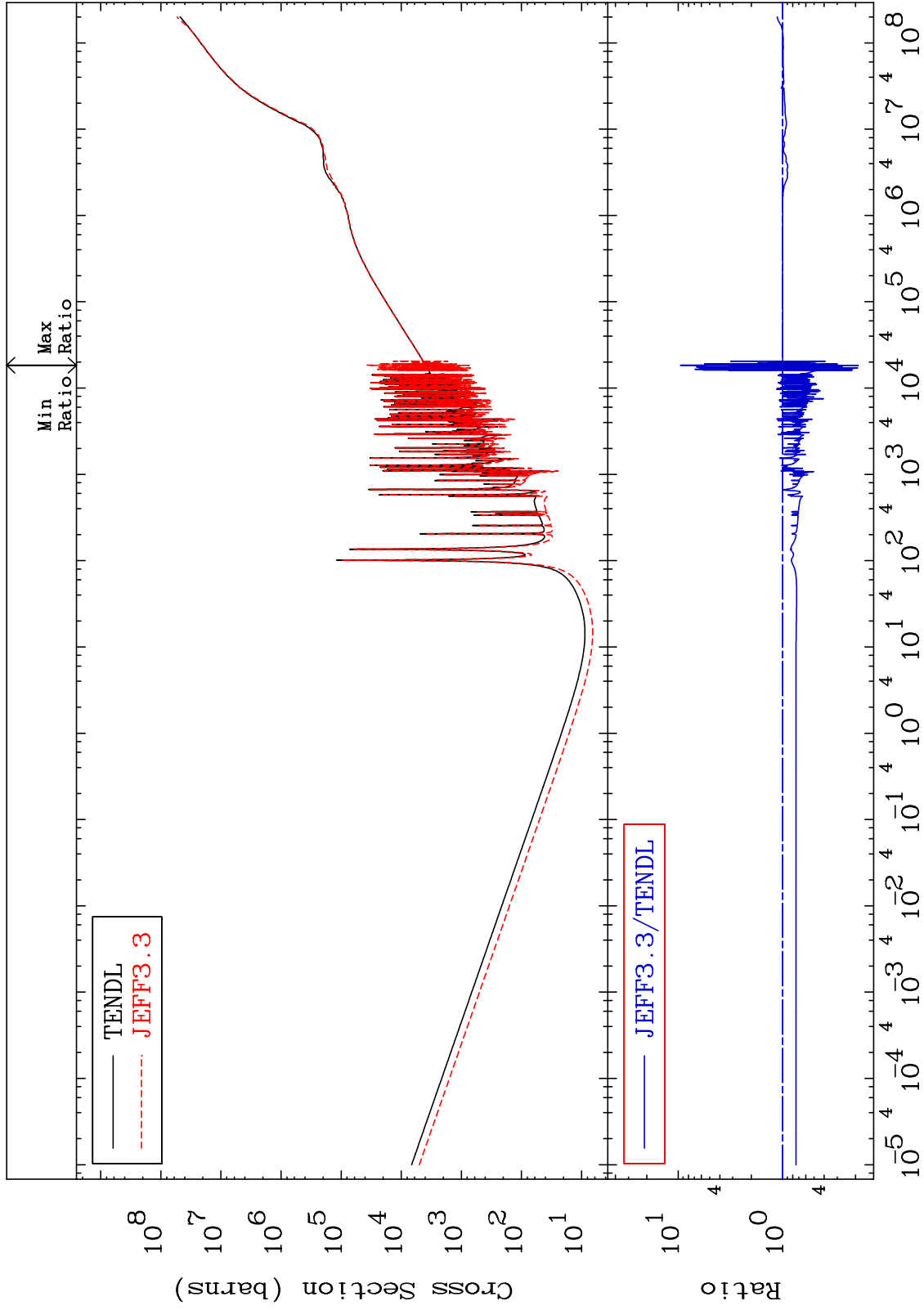
MAT 3531

Total kinematic kerma (high limit)

35-Br-81

Cross Section

-81.24 To 861.9 %



74

Incident Energy (eV)

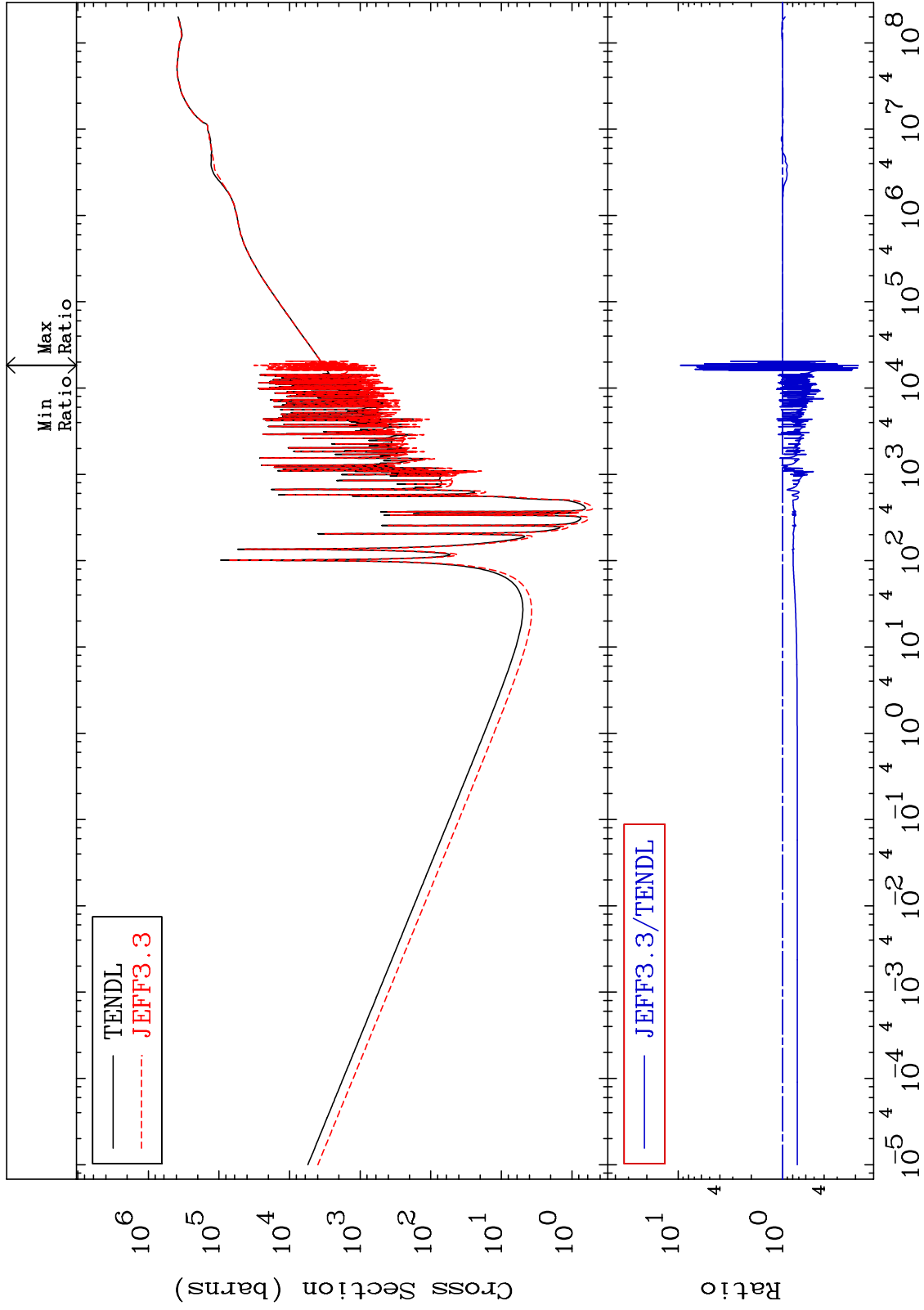
35-Br-81

MAT 3531

Dpa total (eV-barns)  
Cross Section

35-Br-81

-81.24 To 862.0 %



75

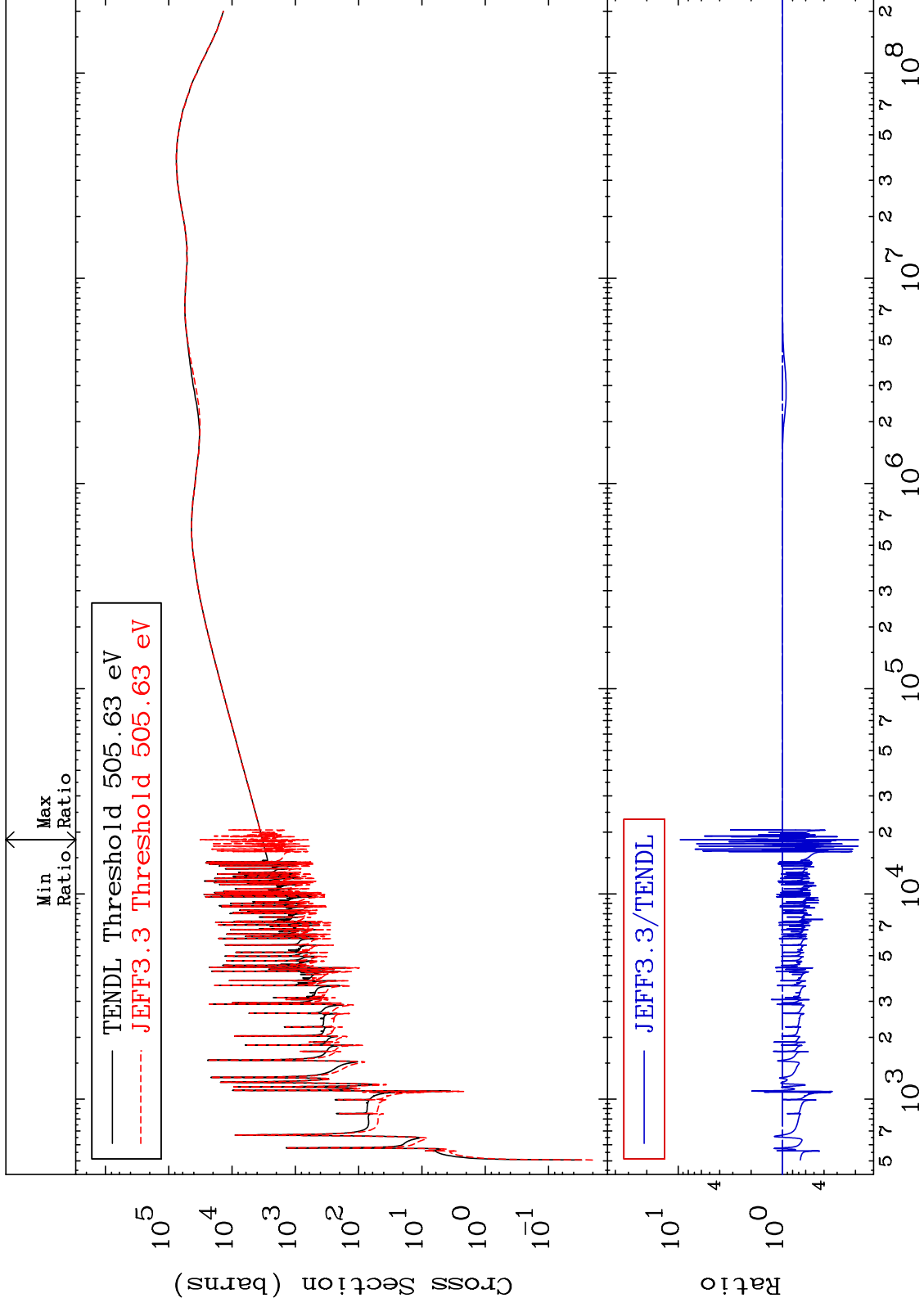
Incident Energy (eV)

35-Br-81

MAT 3531

Dpa elastic (mt2)  
Cross Section

35-Br-81  
-81.24 To 864.5 %



76

Incident Energy (eV)

35-Br-81

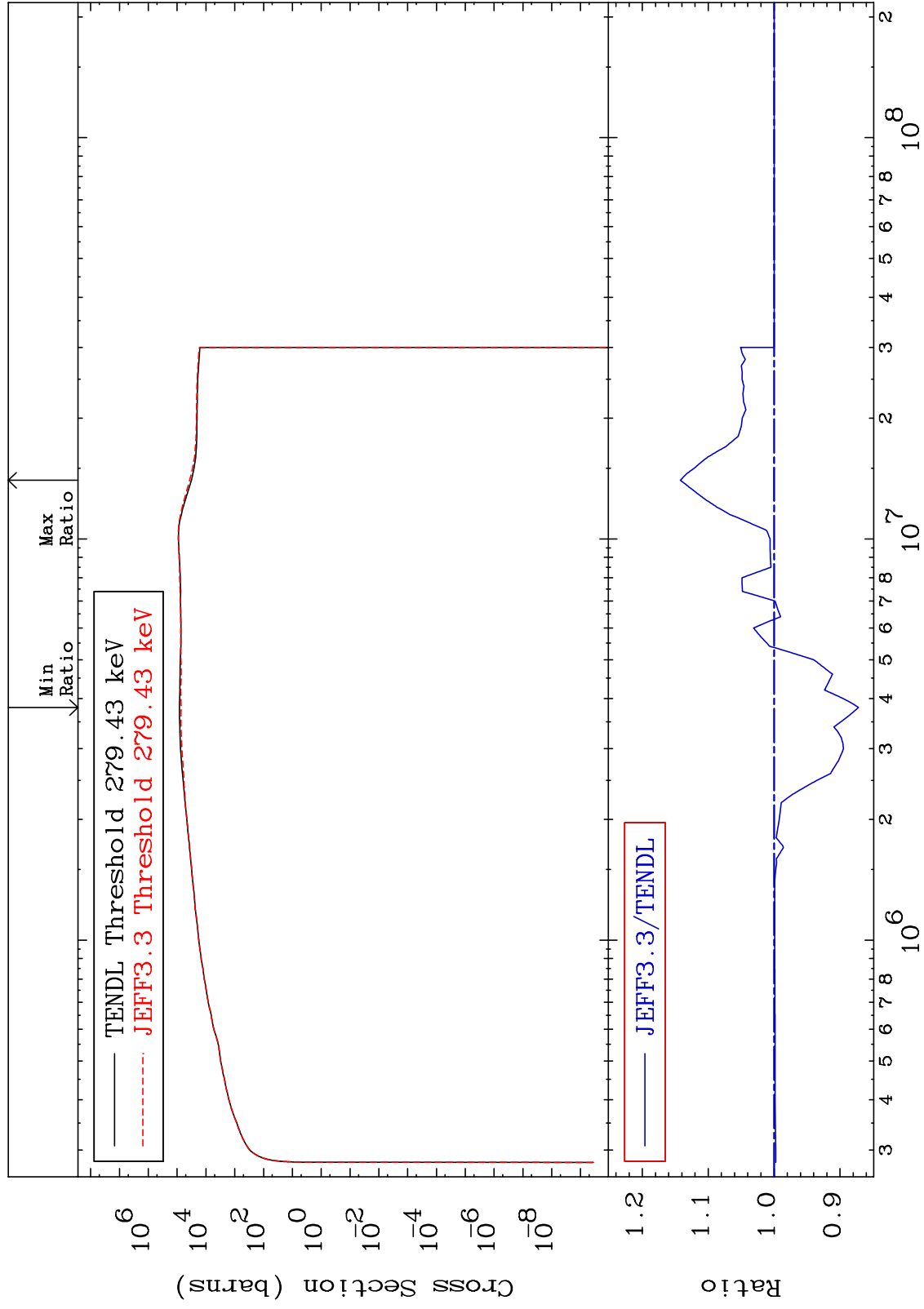
MAT 3531

Dpa inelastic (mt51-91)

35-Br-81

-12.81 To 14.21 %

Cross Section



77

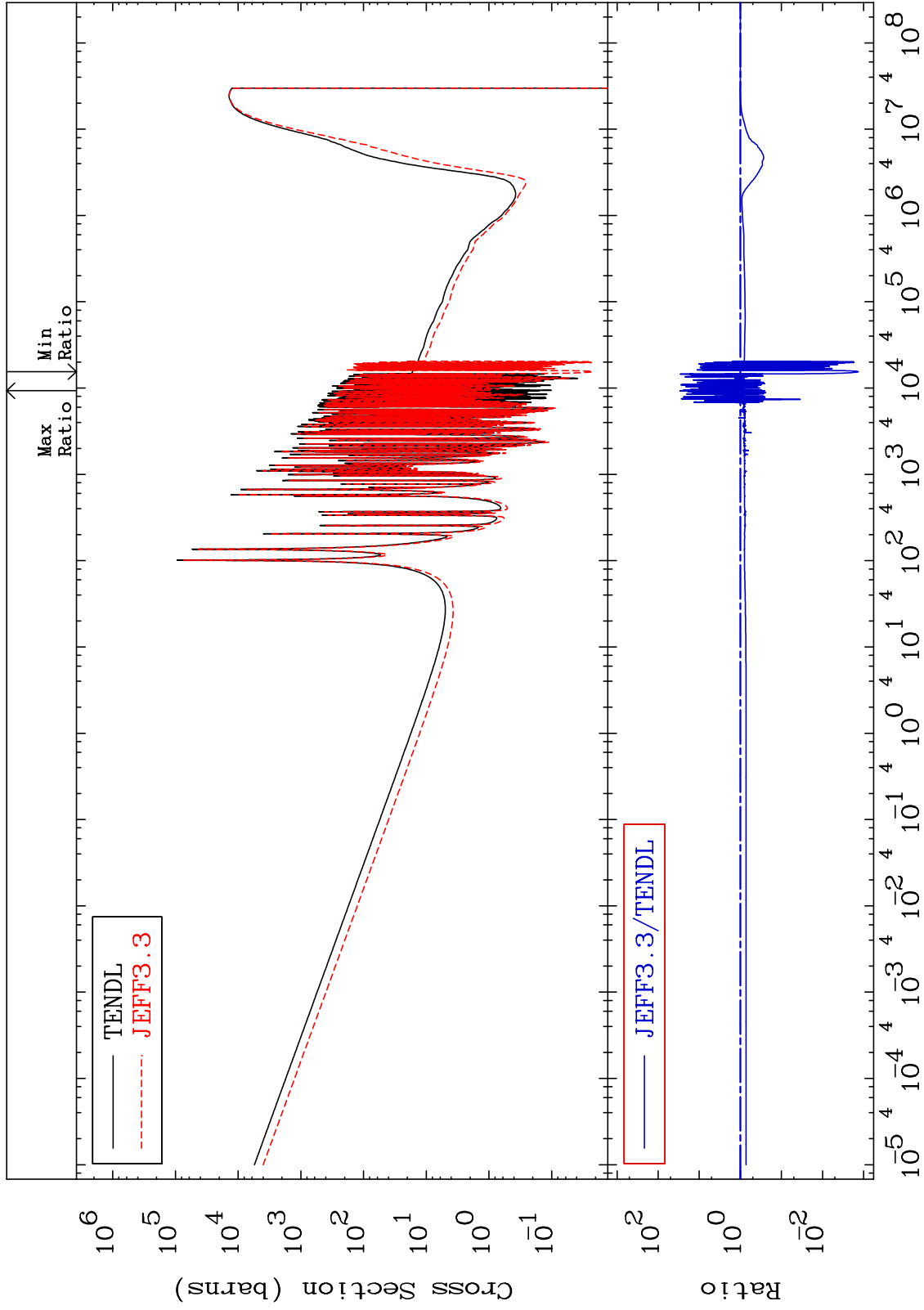
Incident Energy (eV)

35-Br-81

MAT 3531

Dpa disappearance (mt102 -120)  
Cross Section

35-Br-81  
-99.87 To 2838. %



78

Incident Energy (eV)

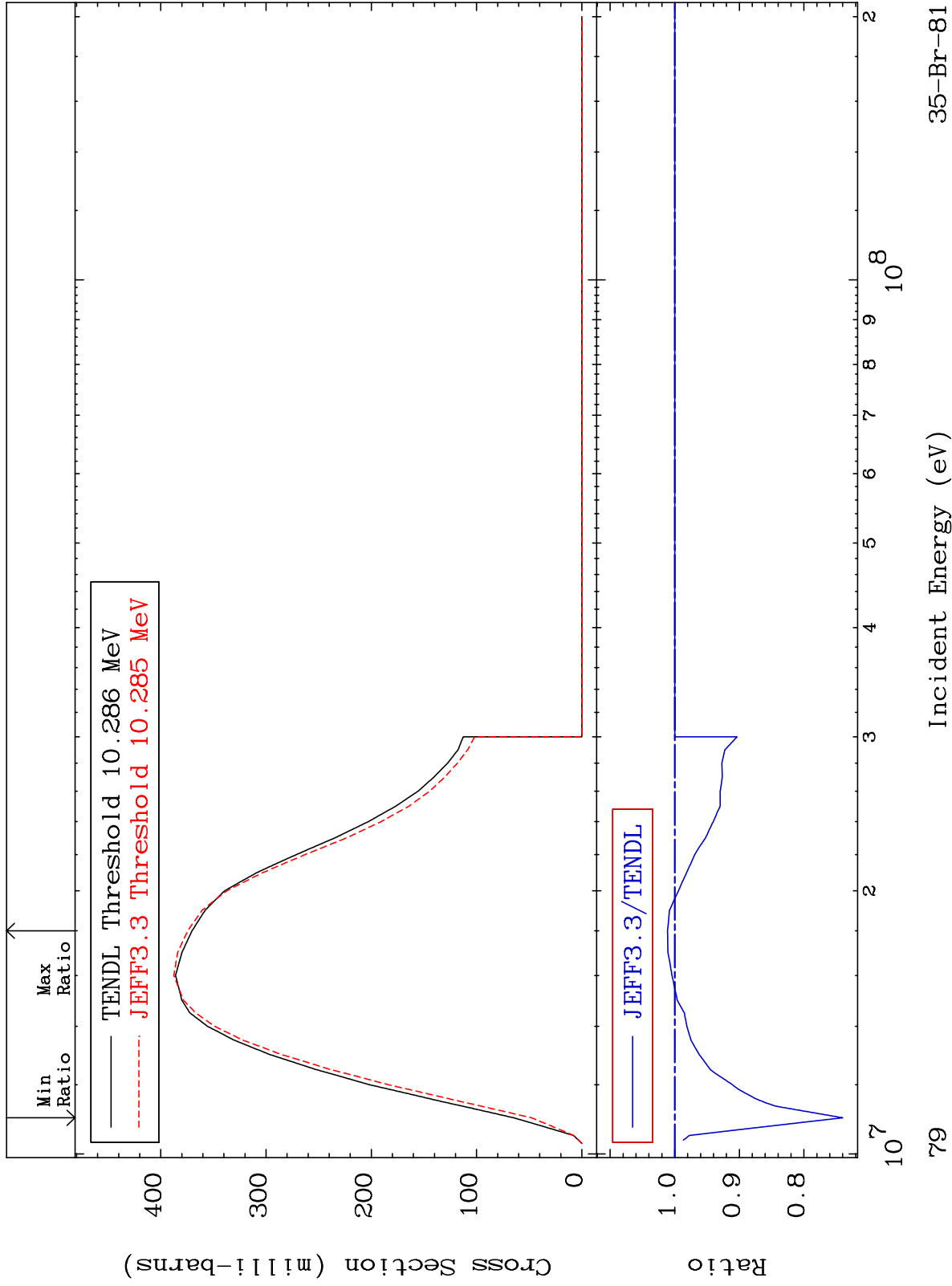
35-Br-81

MAT 3531

(n,2n):35-Br-80g

35-Br-81

Radionuclide Production Cross Section -25.99 To 1.120 %



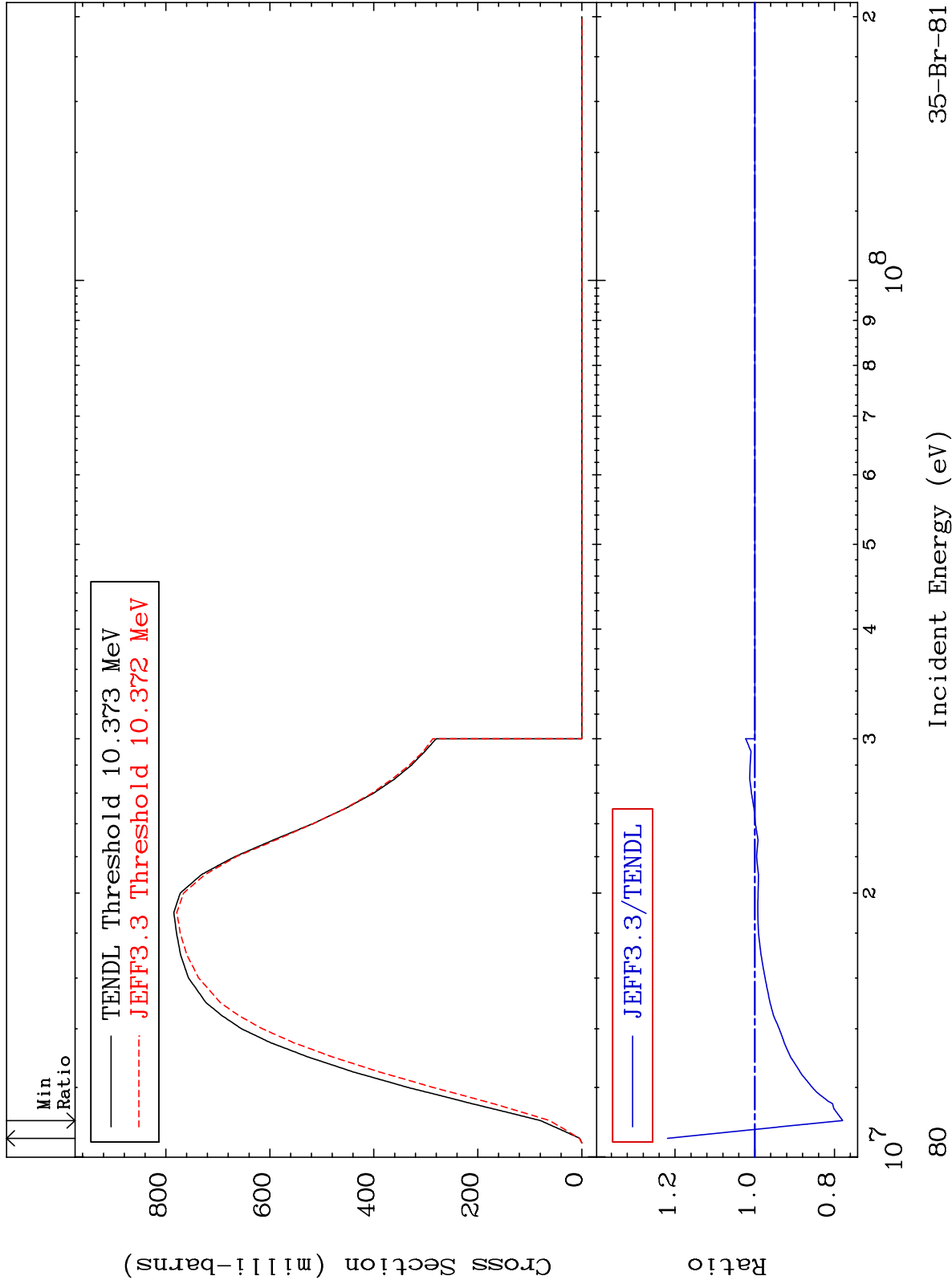


MAT 3531

(n,2n):35-Br-80m2

35-Br-81

Radionuclide Production Cross Section -22.05 To 21.89 %

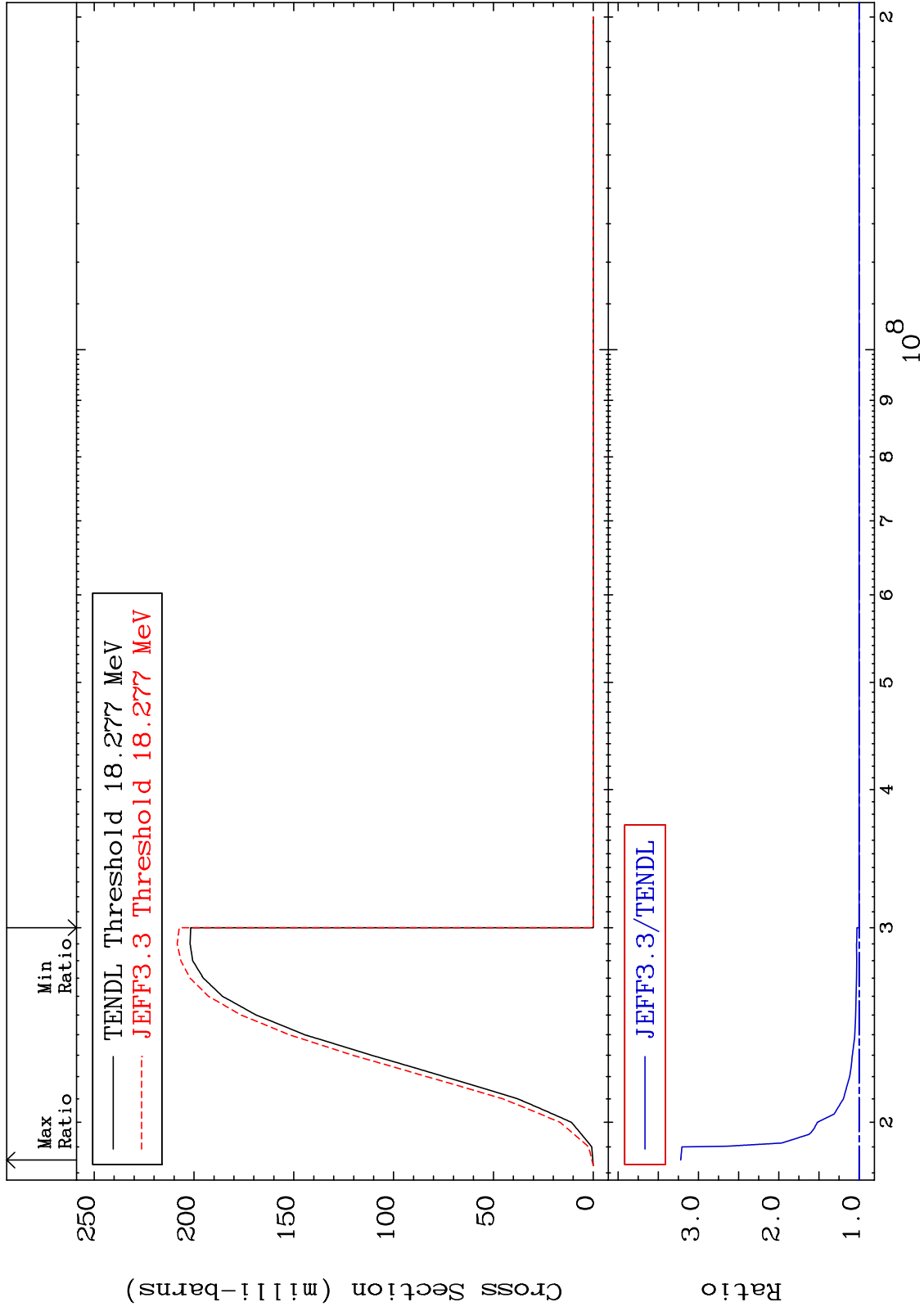


MAT 3531

(n,3n):35-Br-79g

35-Br-81

Radionuclide Production Cross Section 0.000 To 222.2 %



81

Incident Energy (eV)

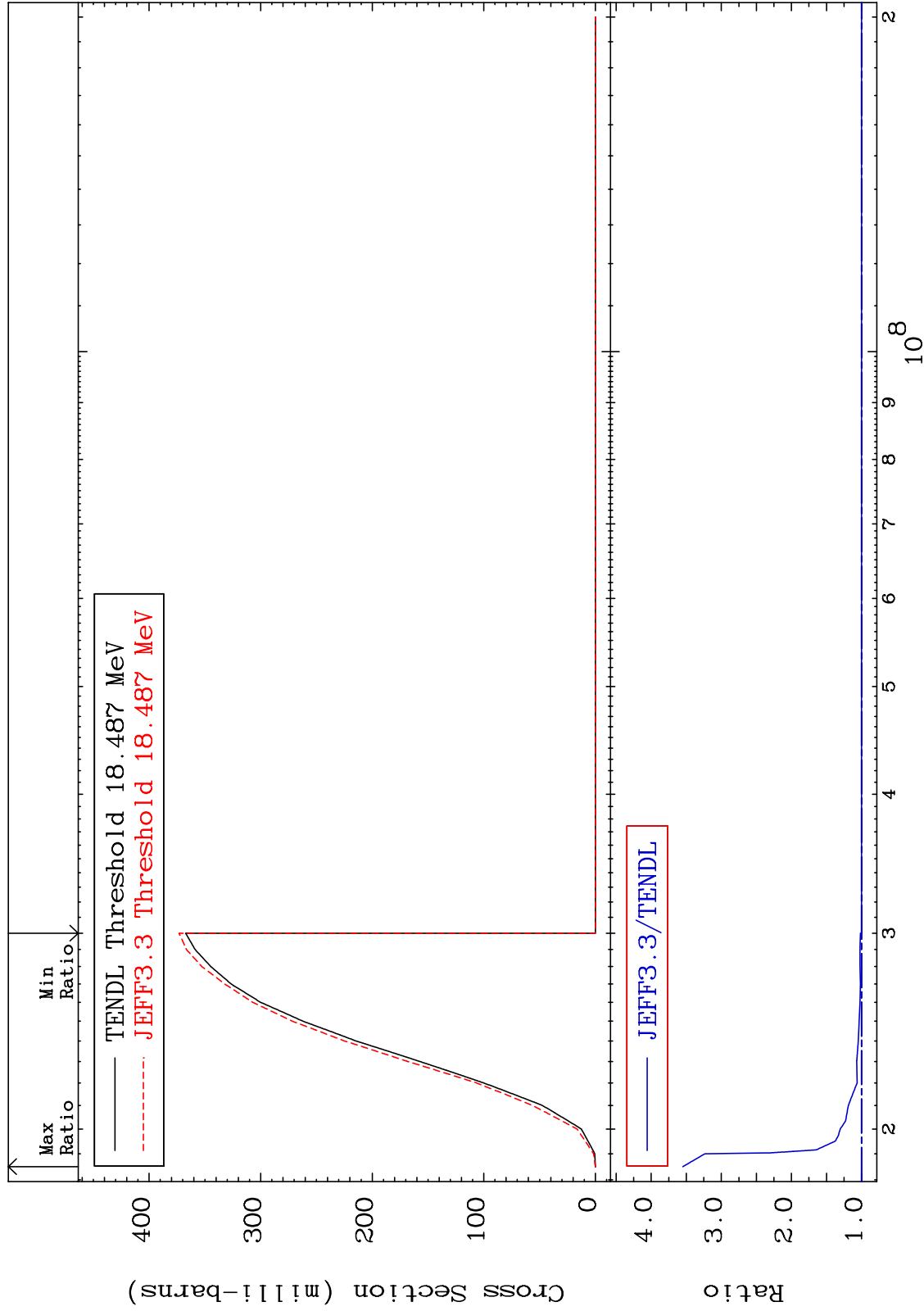
35-Br-81

MAT 3531

(n,3n):35-Br-79m1

35-Br-81

Radionuclide Production Cross Section 0.000 To 254.8 %

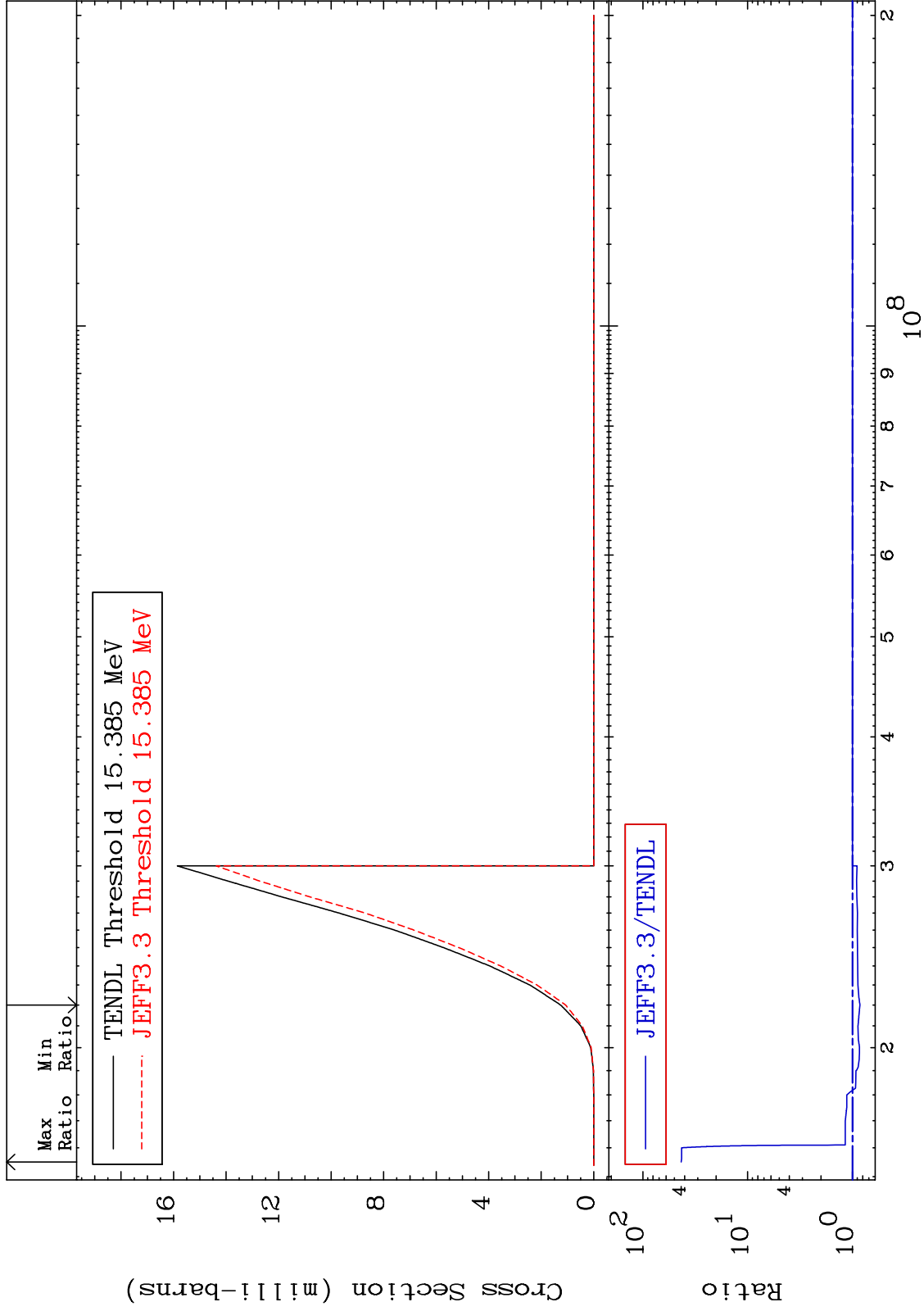


82

Incident Energy (eV)

35-Br-81

Radionuclide Production Cross Section -15.00 To 4204. %

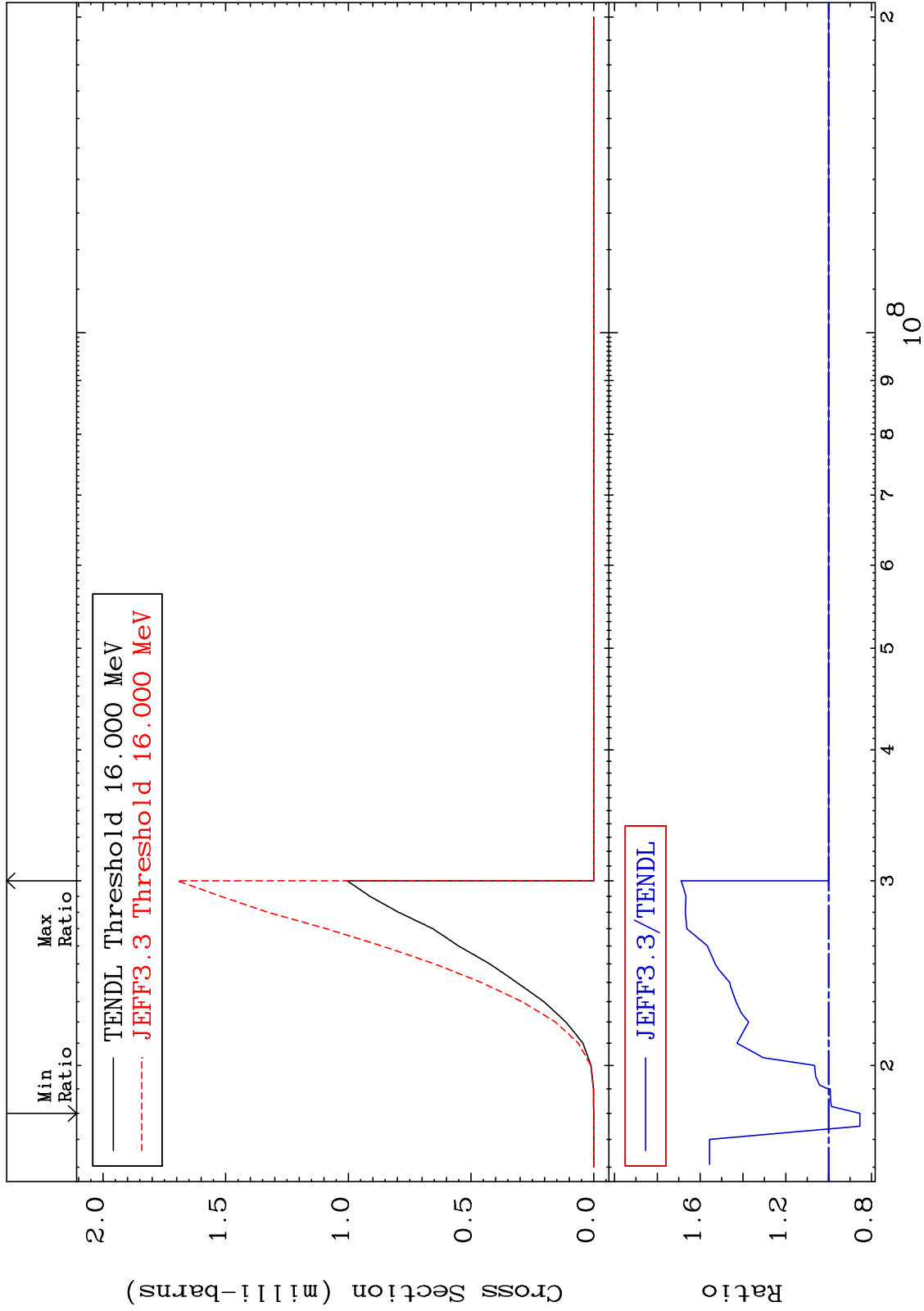


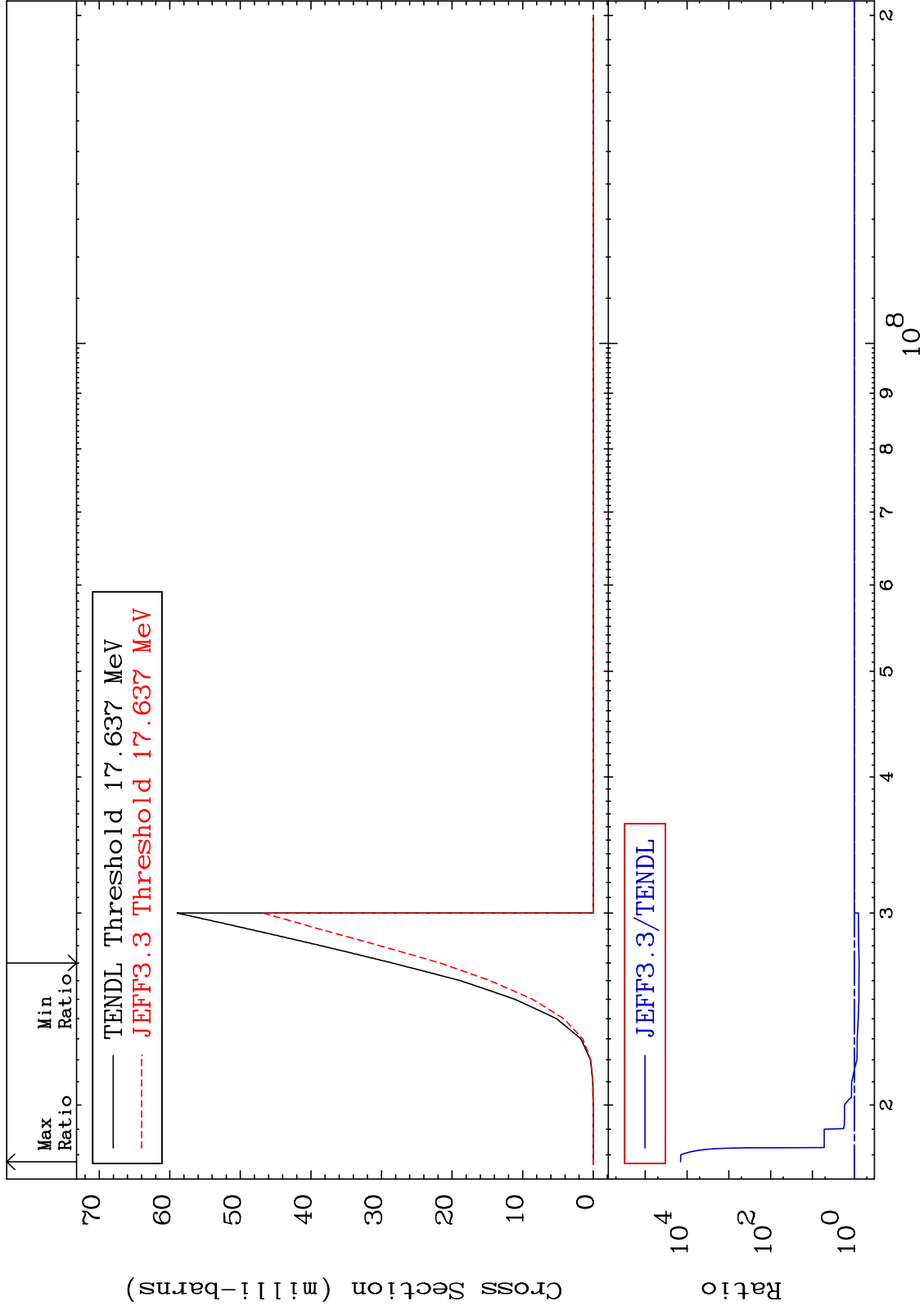
MAT 3531

(n, n') d:34-Se-79m1

35-Br-81

Radionuclide Production Cross Section -14.58 To 68.84 %



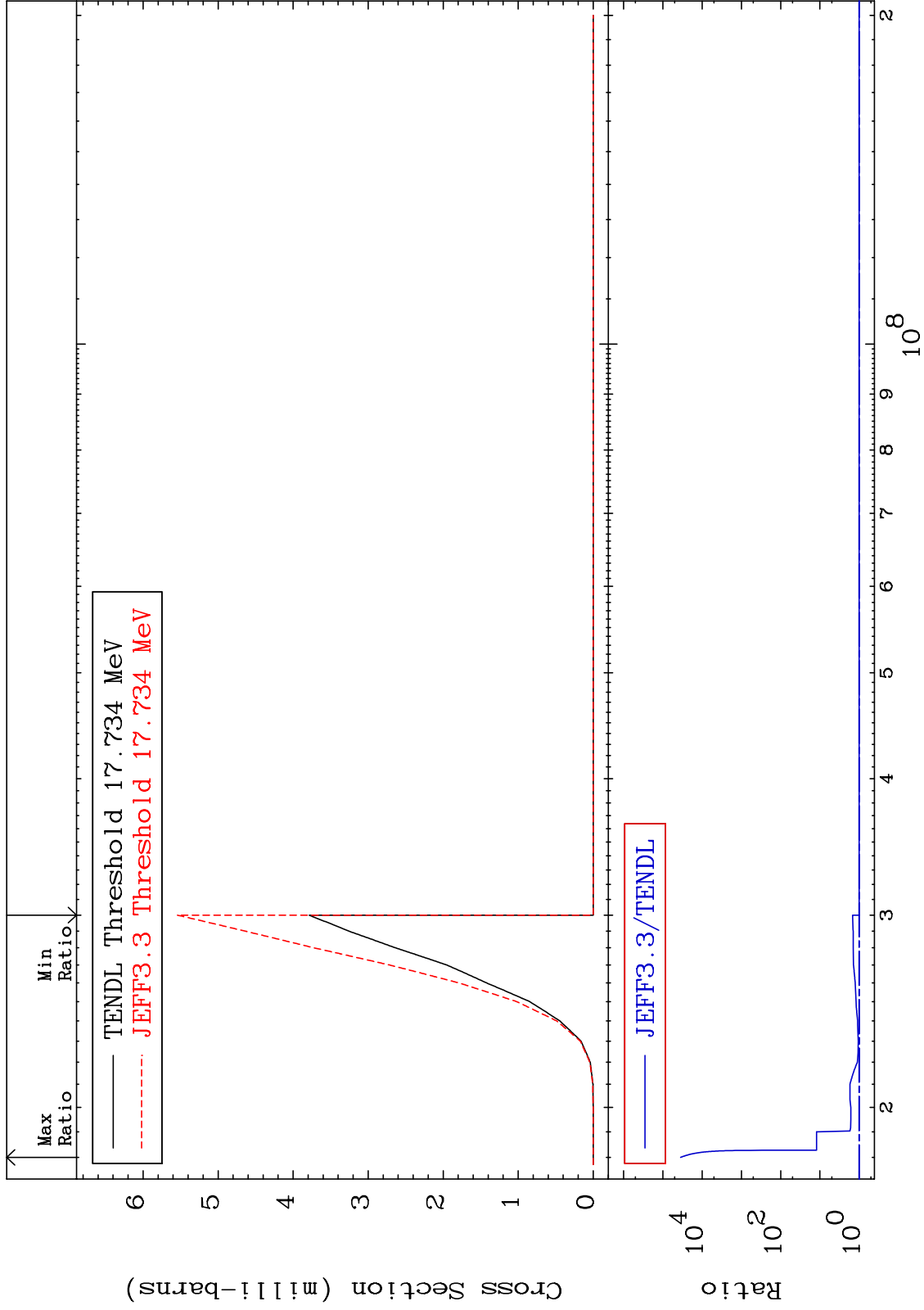


MAT 3531

(n,2n) p:34-Se-79m1

35-Br-81

Radionuclide Production Cross Section 0.000 To 9999. %

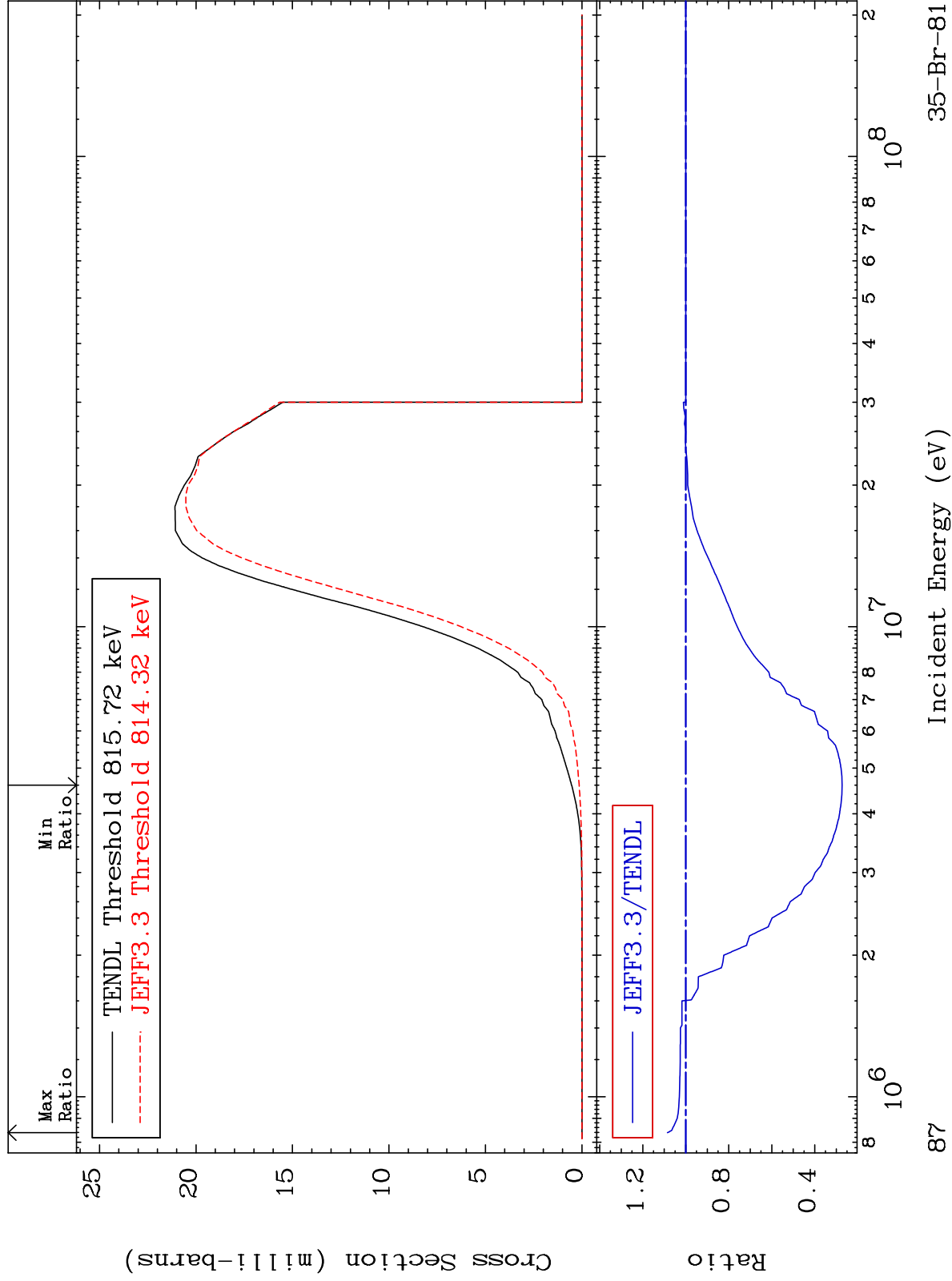


MAT 3531

35-Br-81

(n,p):34-Se-81g

Radionuclide Production Cross Section -72.73 To 8.500 %



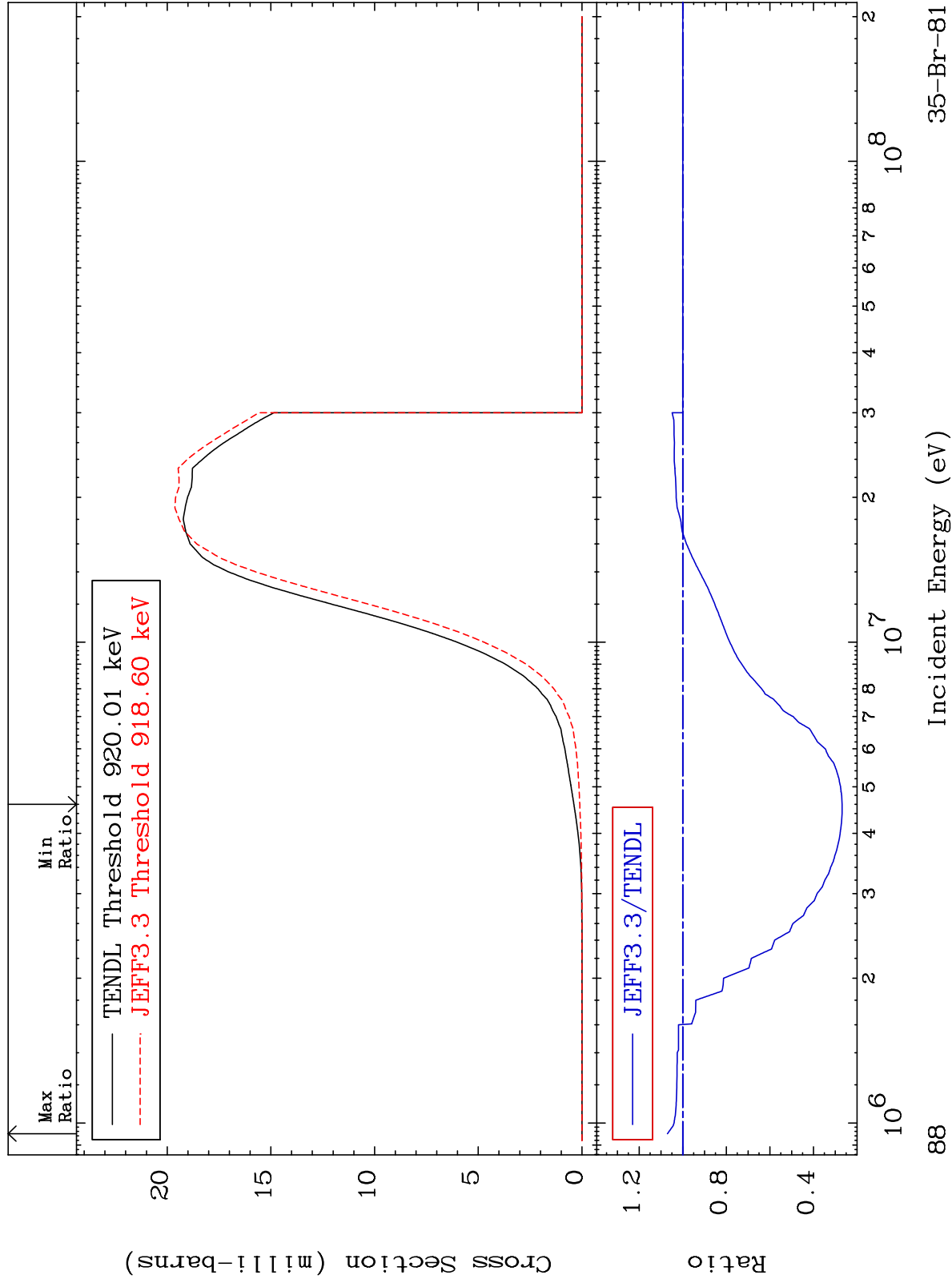


MAT 3531

(n,p):34-Se-81m1

35-Br-81

Radionuclide Production Cross Section -73.14 To 7.055 %



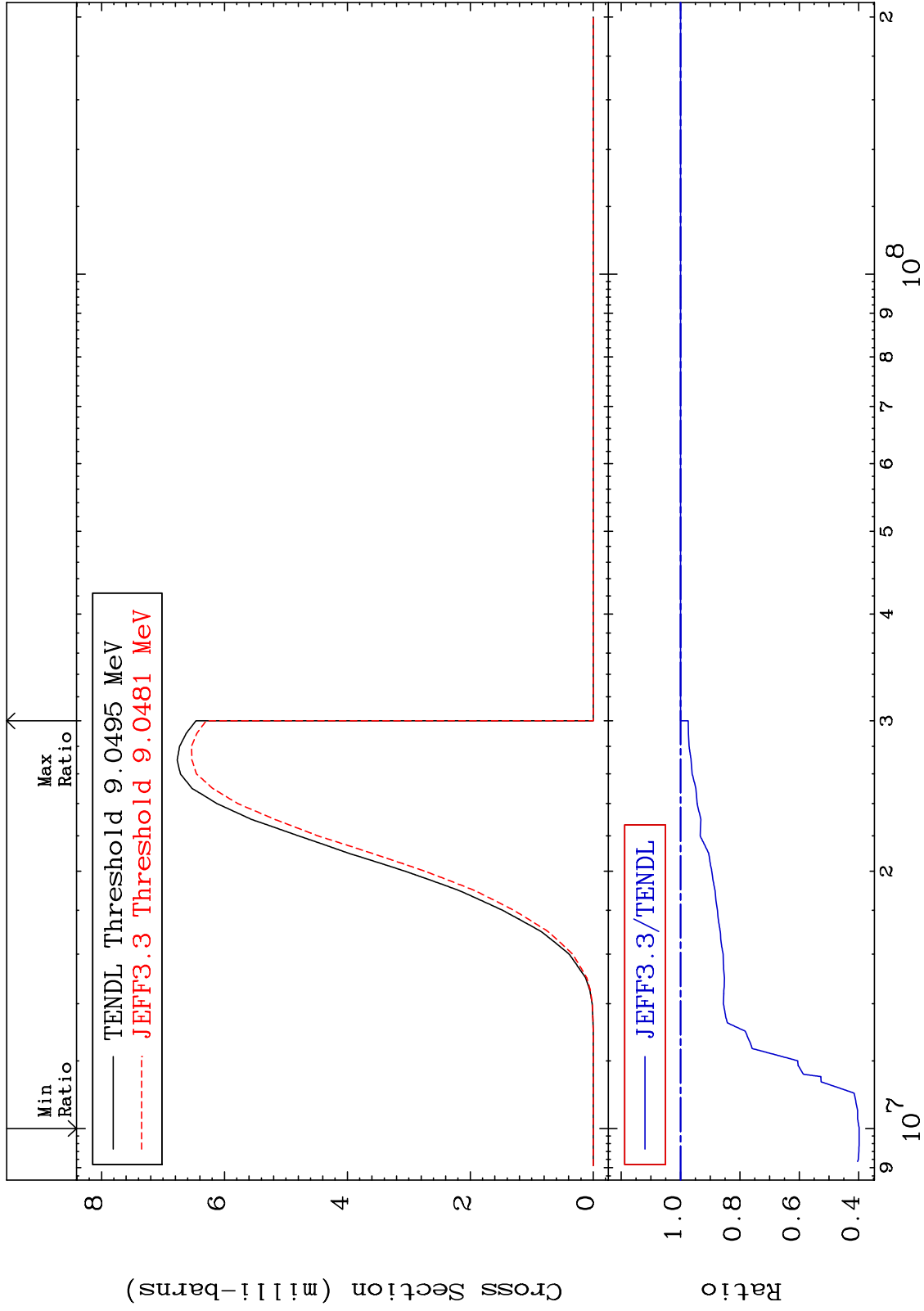
88

MAT 3531

35-Br-81

(n, t) : 34-Se-79g

Radionuclide Production Cross Section -60.17 To 0.000 %



89

Incident Energy (eV)

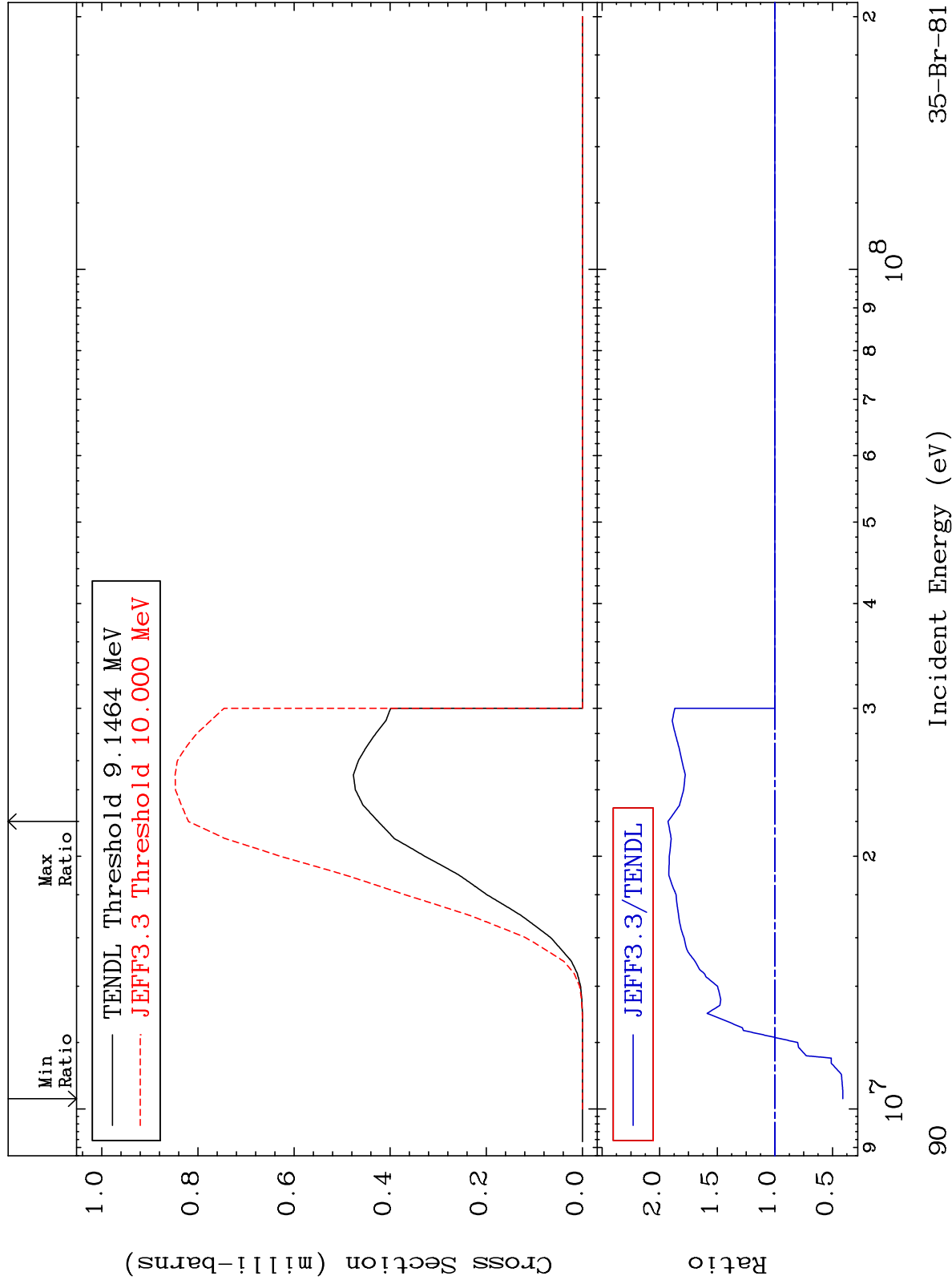
35-Br-81

MAT 3531

(n, t):34-Se-79m1

35-Br-81

Radionuclide Production Cross Section -58.97 To 92.79 %



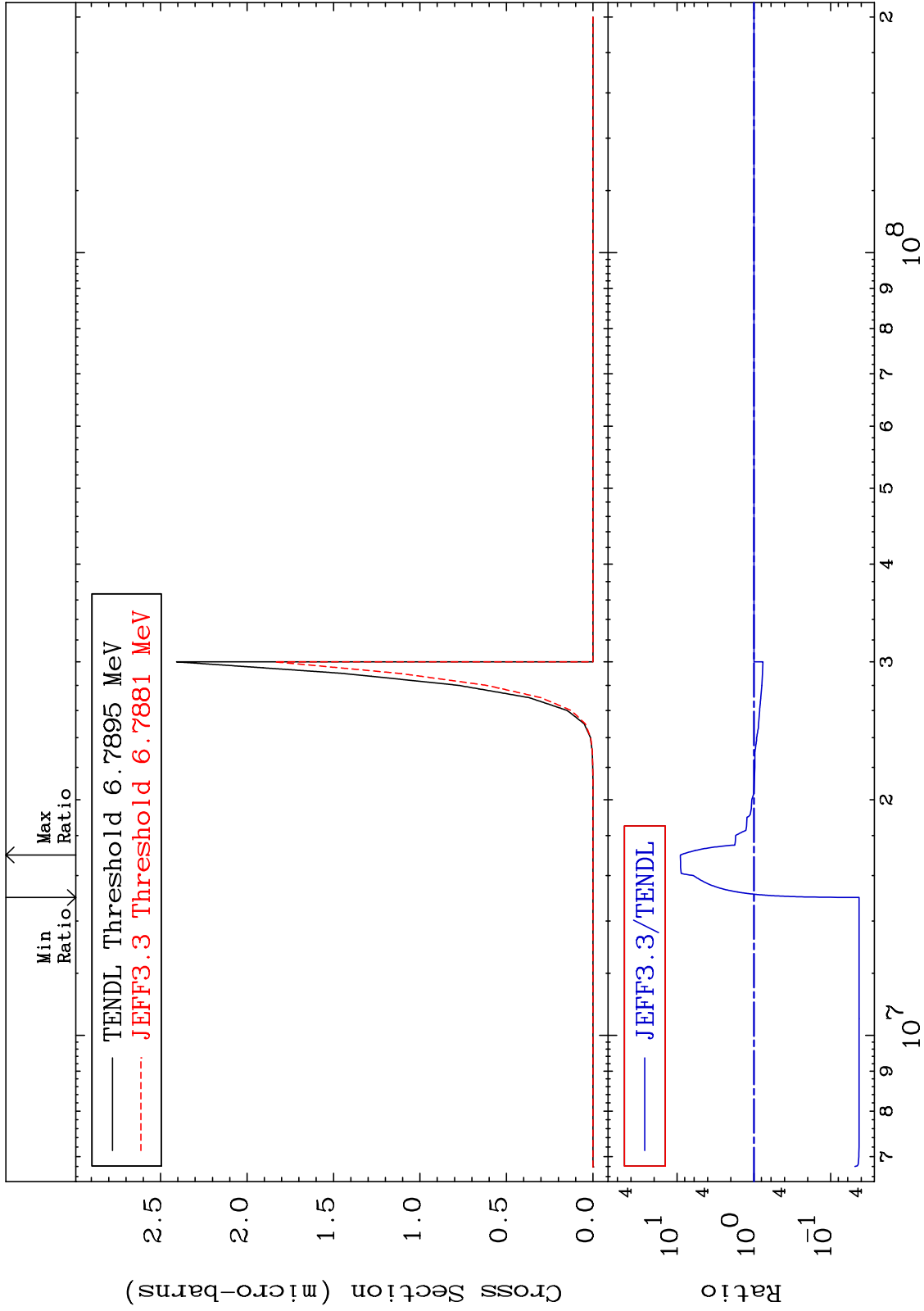
35-Br-81

MAT 3531

(n,2α):31-Ga-74g

35-Br-81

Radionuclide Production Cross Section -95.73 To 807.5 %



91

Incident Energy (eV)

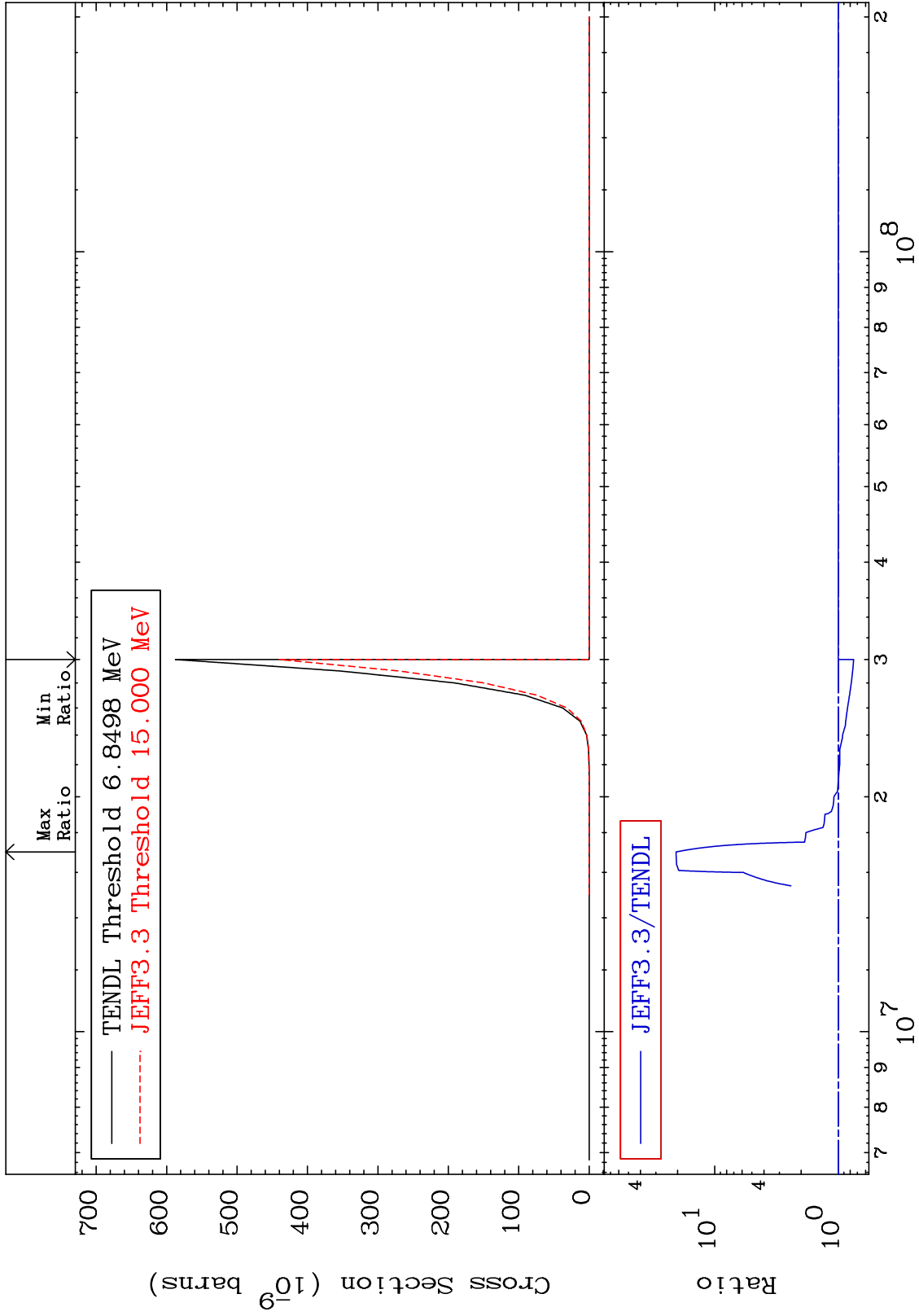
35-Br-81

MAT 3531

(n,2α):31-Ga-74m2

35-Br-81

Radionuclide Production Cross Section -25.11 To 1955. %



92

Incident Energy (eV)

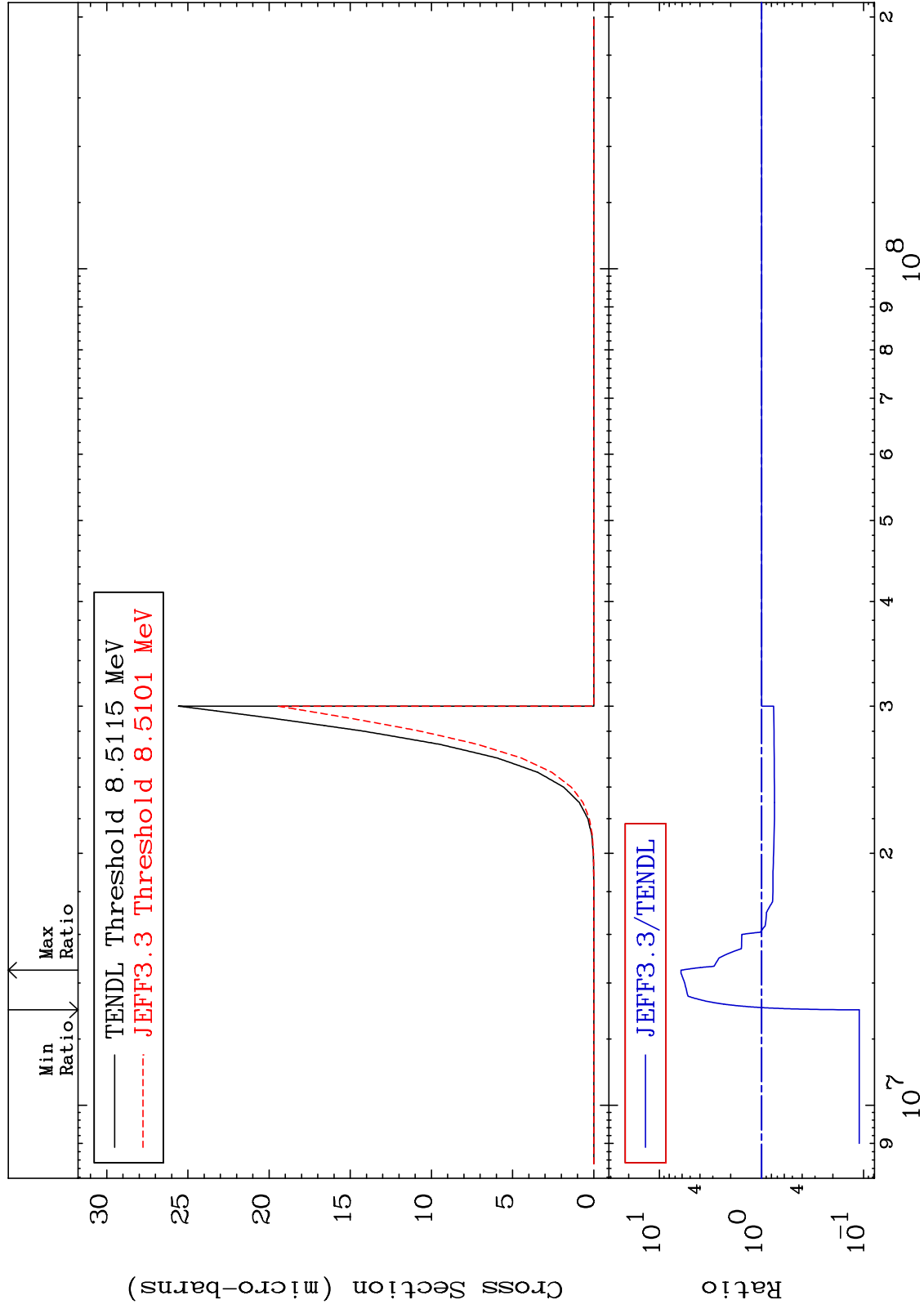
35-Br-81

MAT 3531

(n, p)  $\alpha$ :32-Ge-77g

35-Br-81

Radionuclide Production Cross Section -88.95 To 513.2 %



93

Incident Energy (eV)

35-Br-81

