

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

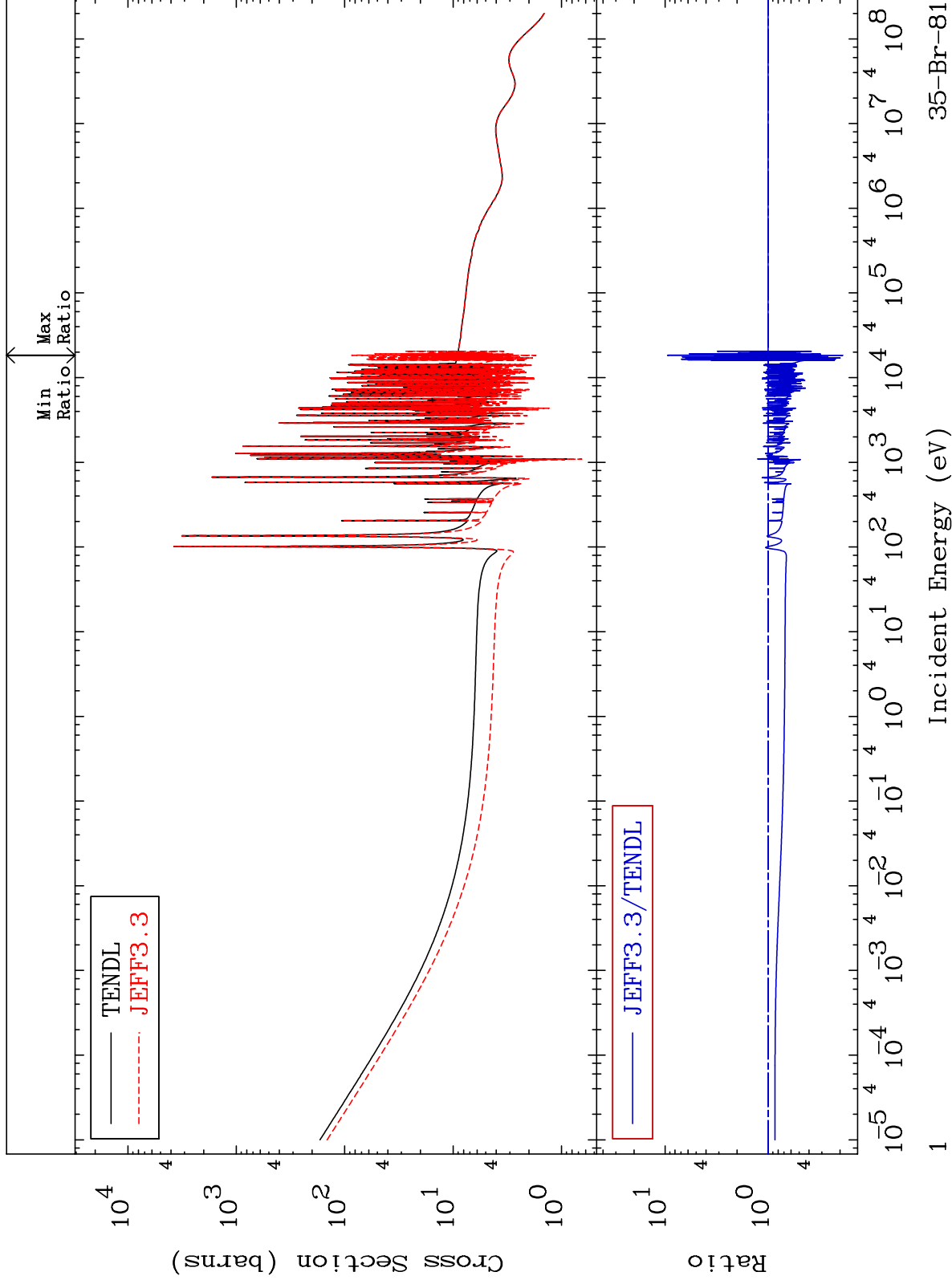
MAT 3531

Total

35-Br-81

Cross Section

-81.12 To 846.5 %



35-Br-81

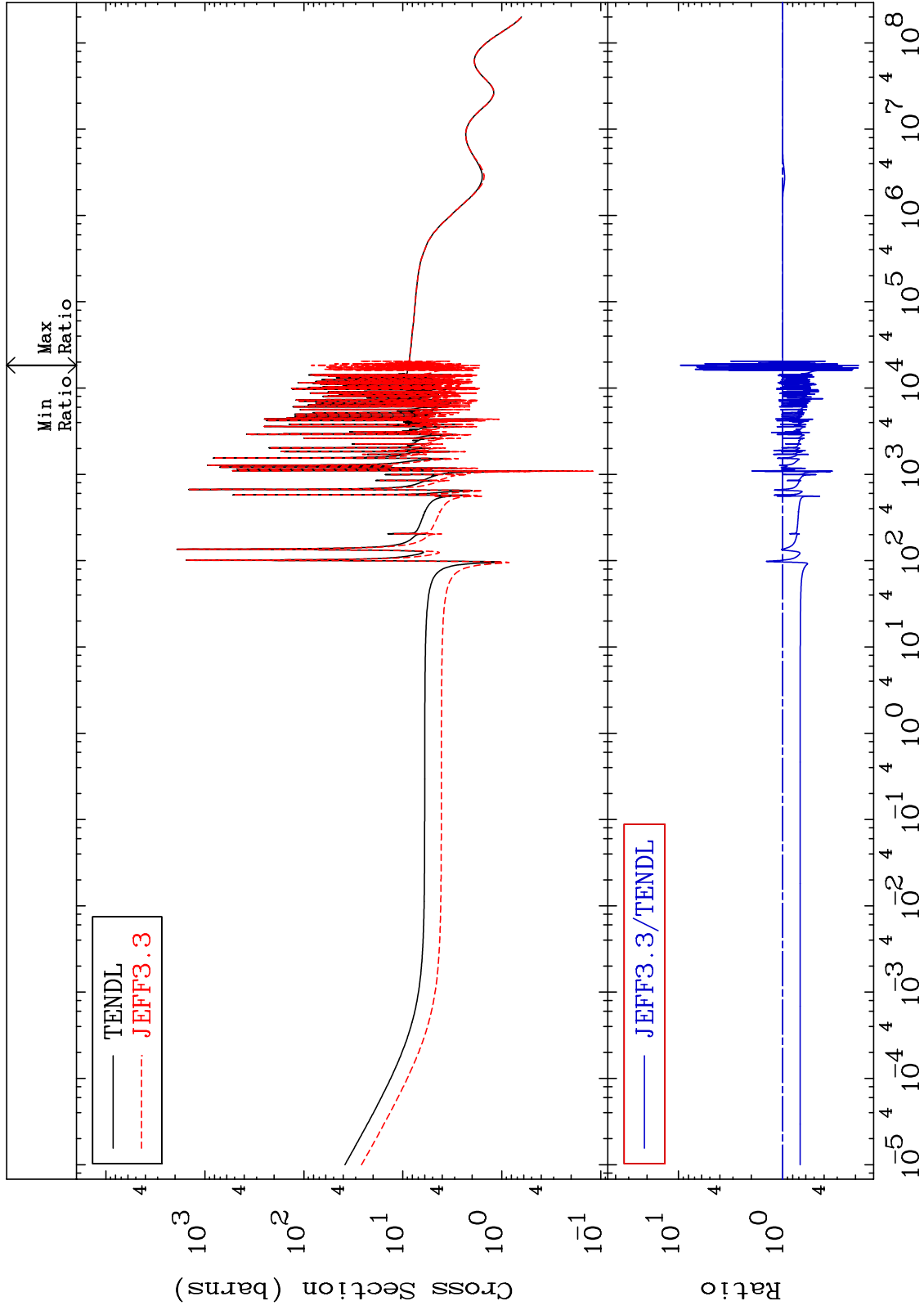
MAT 3531

Elastic

Cross Section

35-Br-81

-81.25 To 864.0 %



Incident Energy (eV)

35-Br-81

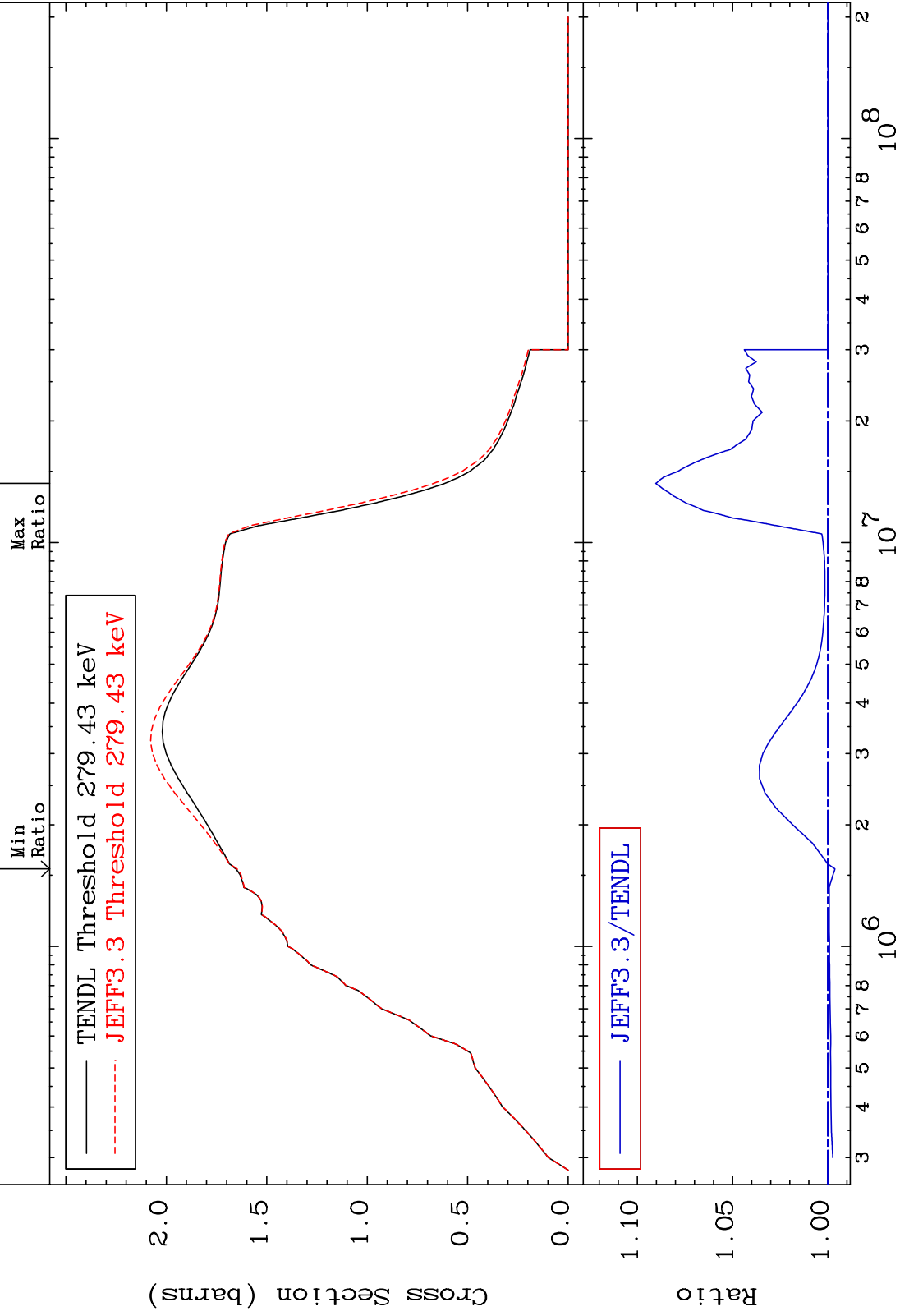
2

MAT 3531

35-Br-81

-0.375 To 9.027 %

Inelastic
Cross Section



3

Incident Energy (eV)

35-Br-81

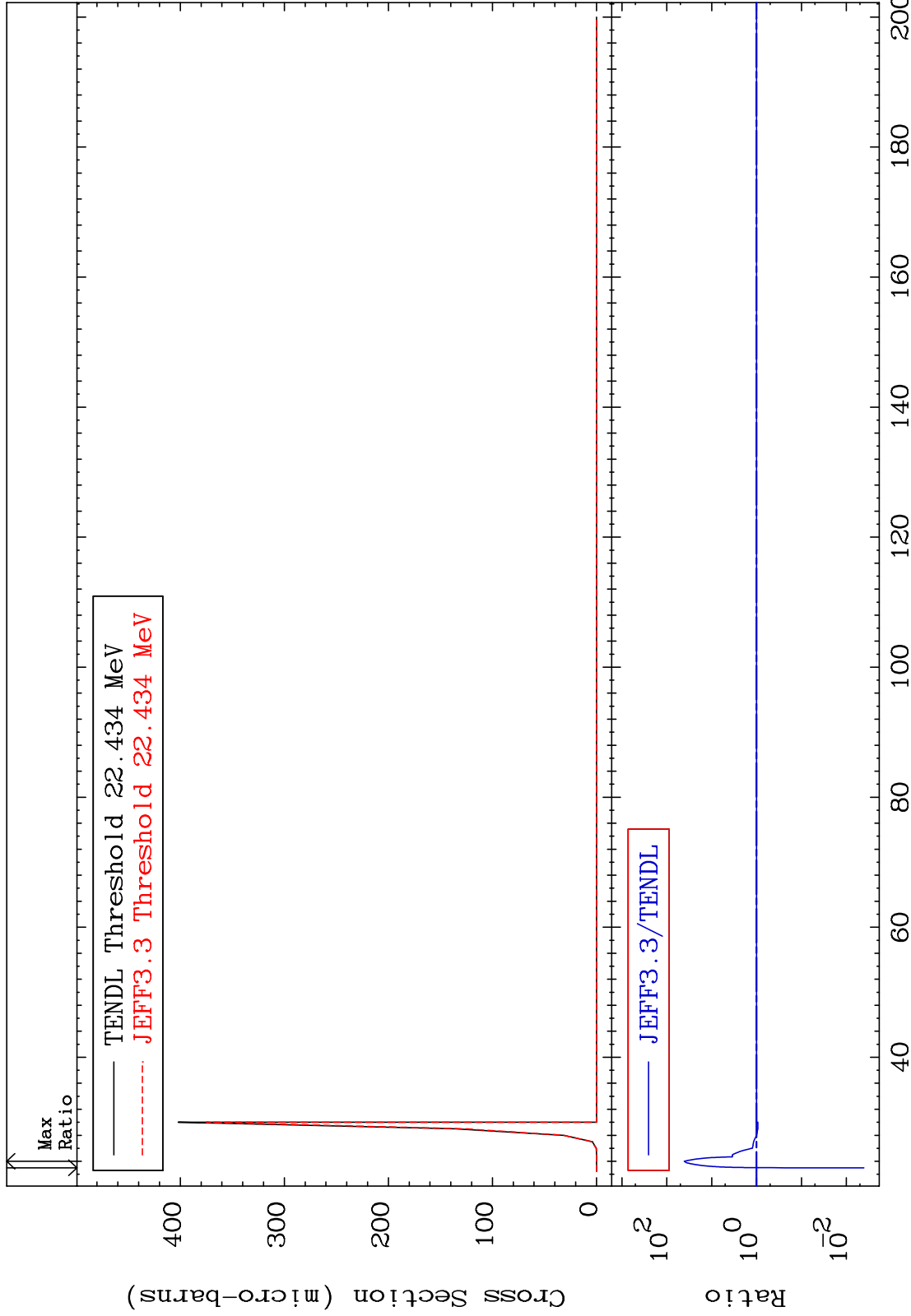
MAT 3531

(n,2n) d

35-Br-81

Cross Section

-99.59 To 3957. %



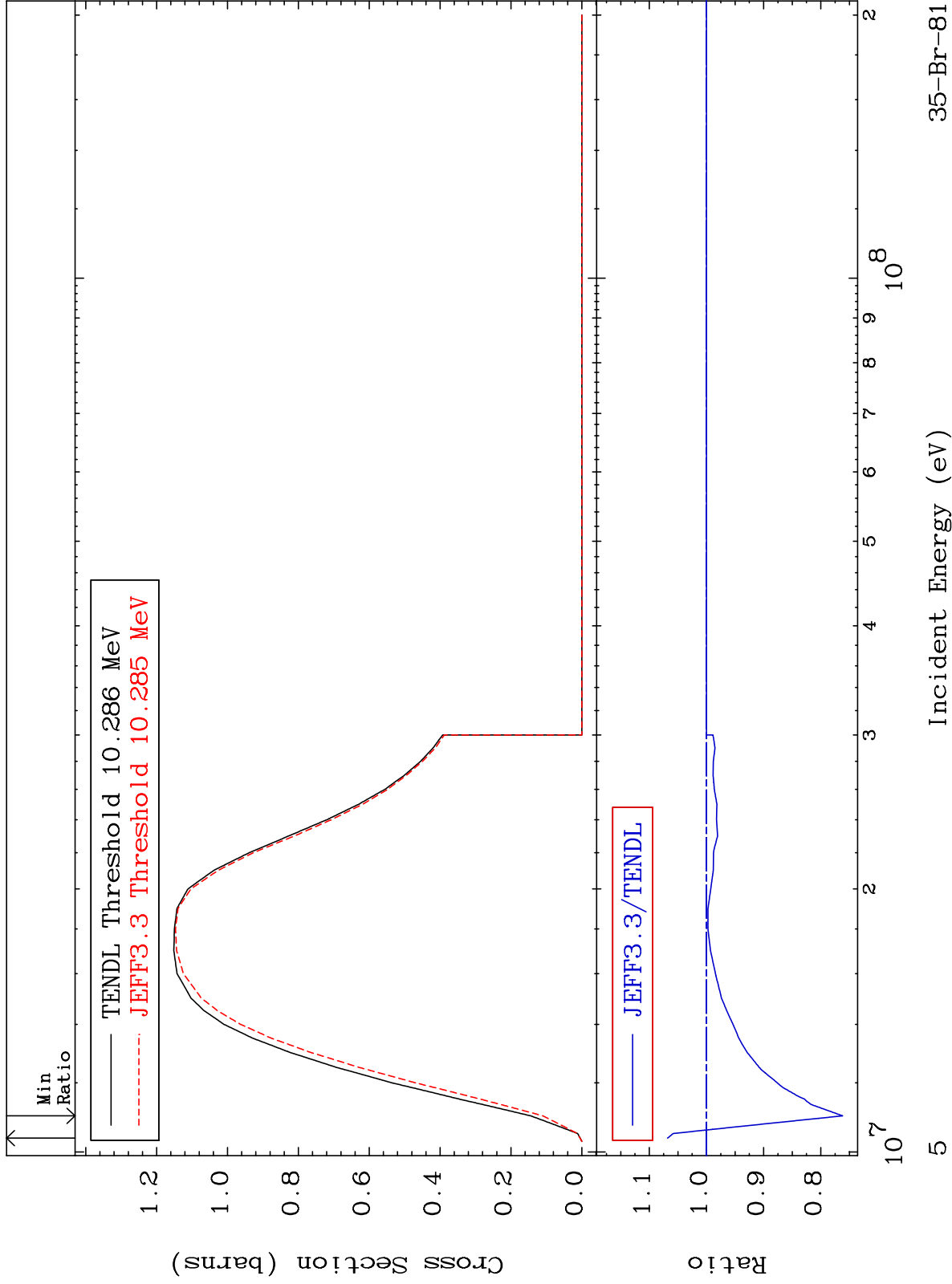
MAT 3531

(n,2n)

35-Br-81

Cross Section

-23.82 To 6.811 %



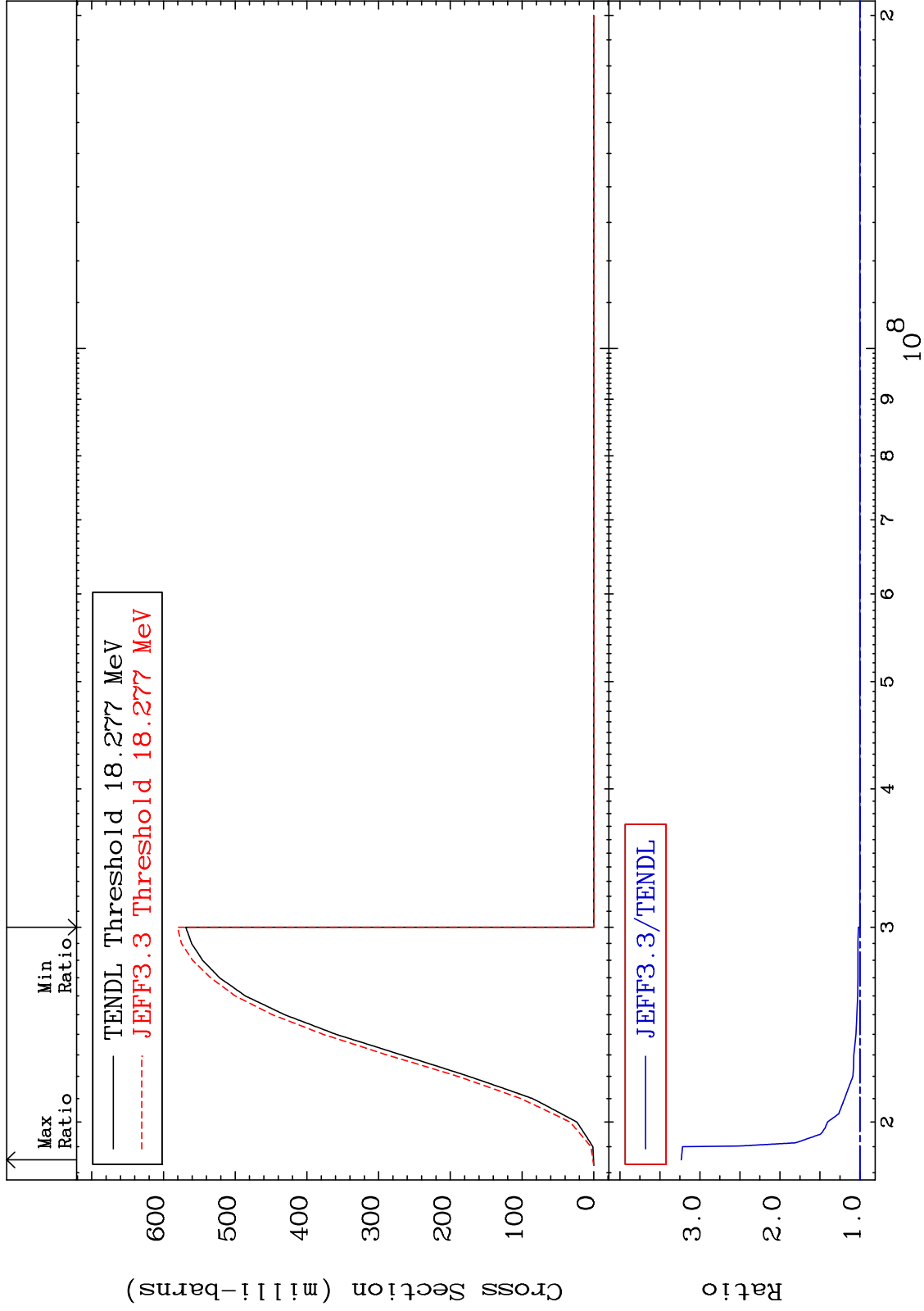
MAT 3531

(n,3n)

35-Br-81

Cross Section

0.000 To 223.3 %



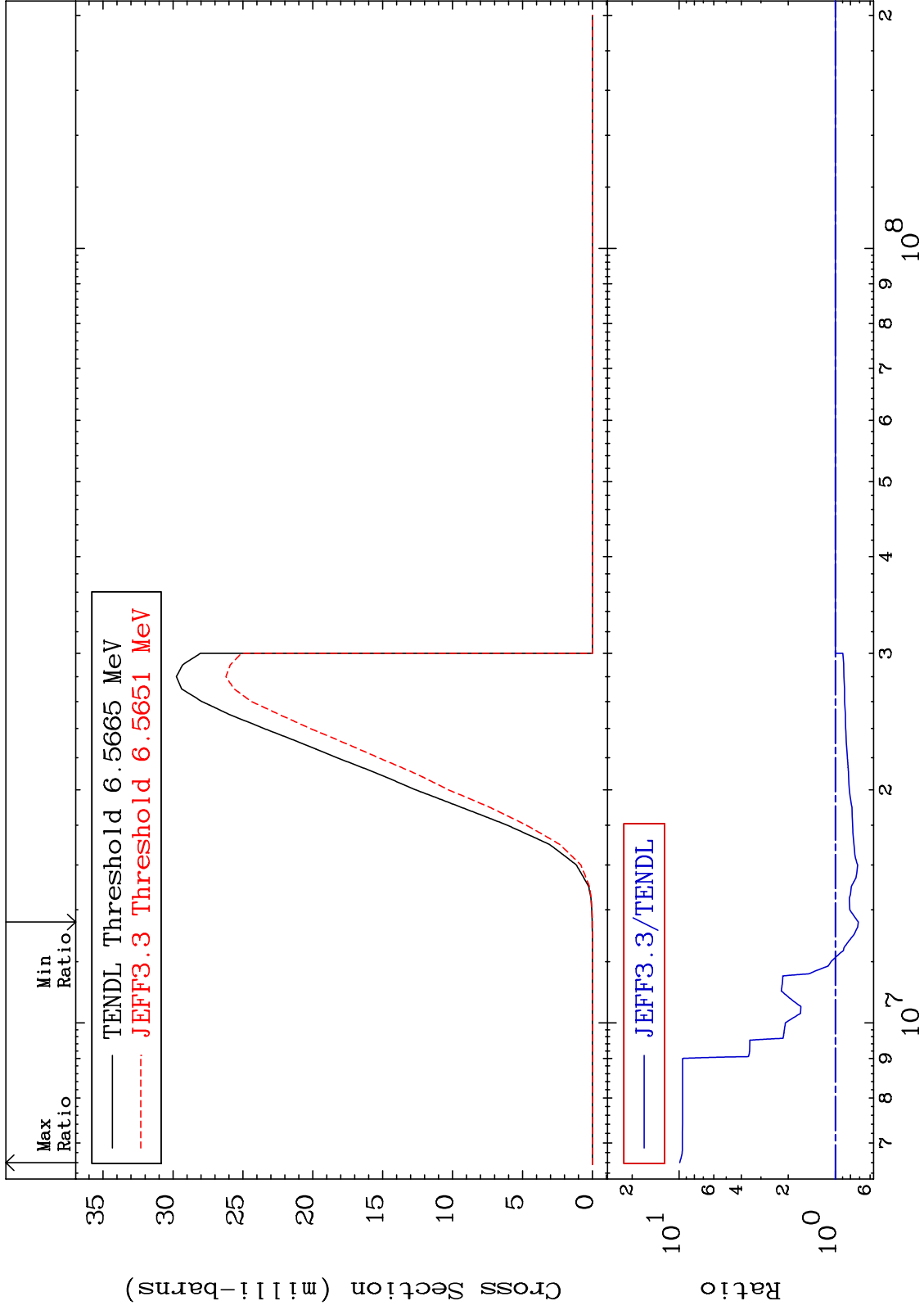
MAT 3531

(n, n') α

35-Br-81

Cross Section

-28.77 To 890.9 %



7

Incident Energy (eV)

35-Br-81

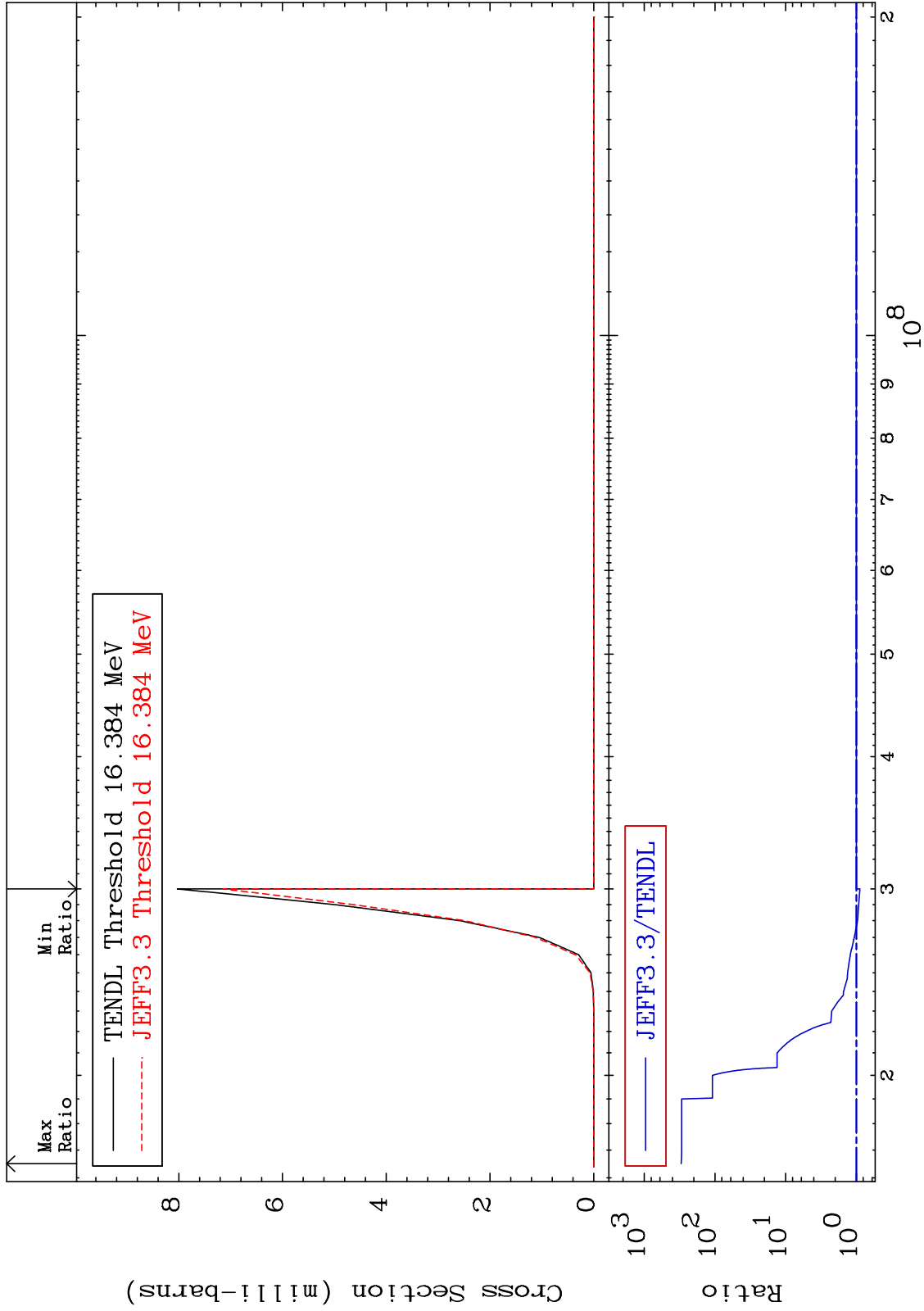
MAT 3531

(n,2n) α

³⁵Br-81

Cross Section

-10.93 To 9999. %



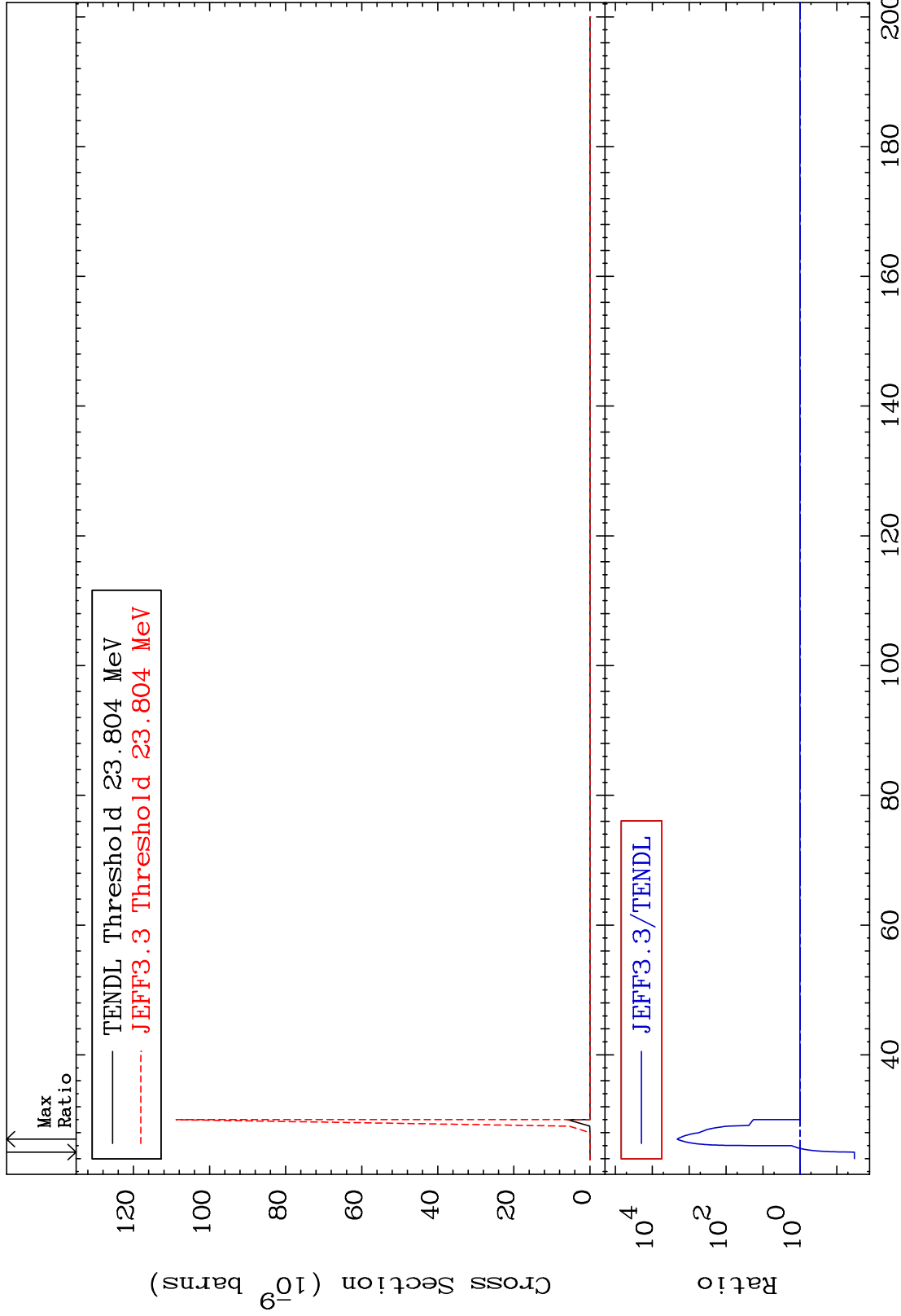
MAT 3531

(n,3n) α

³⁵Br-81

Cross Section

-96.66 To 9999. %



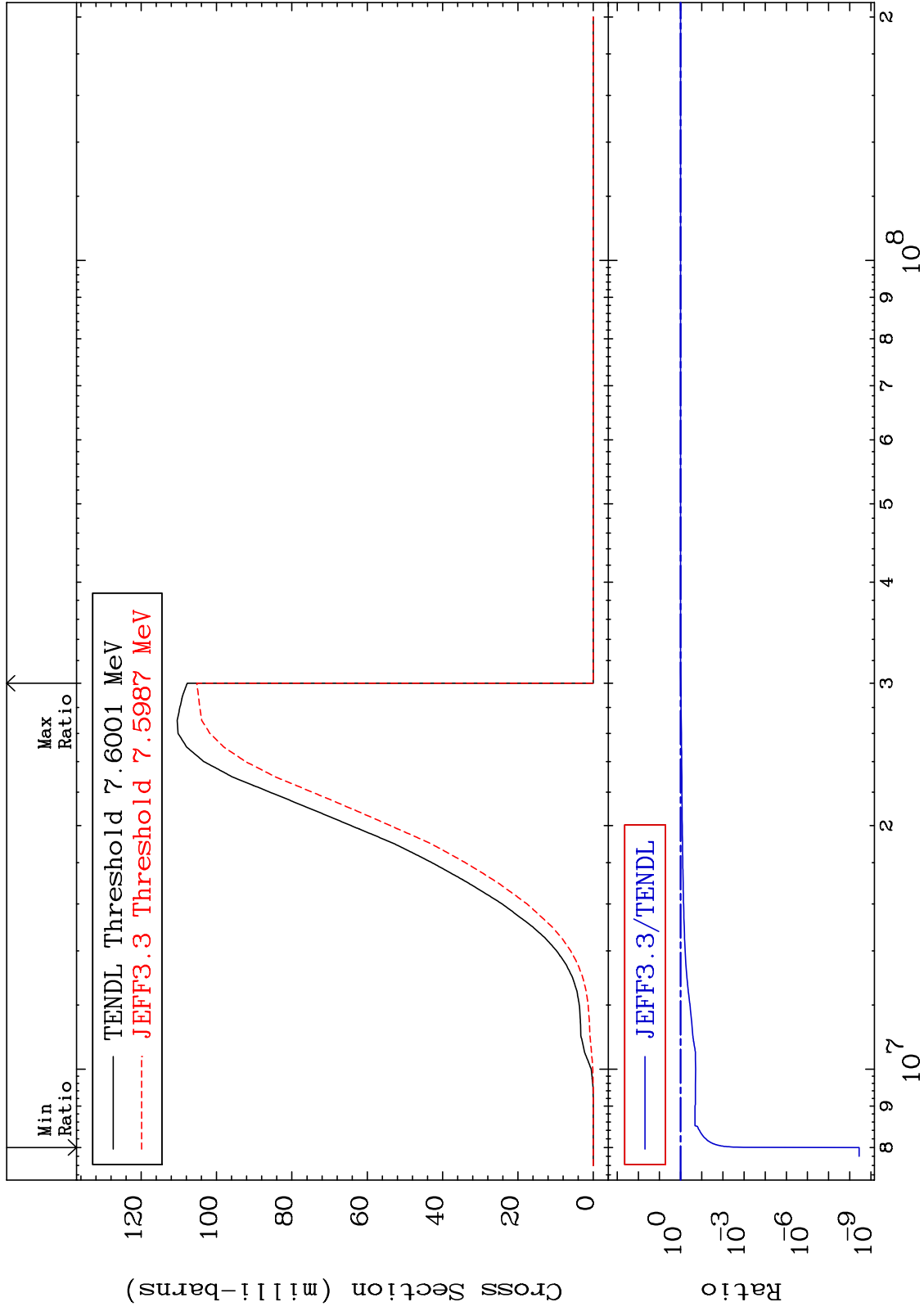
MAT 3531

(n,n') p

35-Br-81

Cross Section

-100.0 To 0.000 %



10

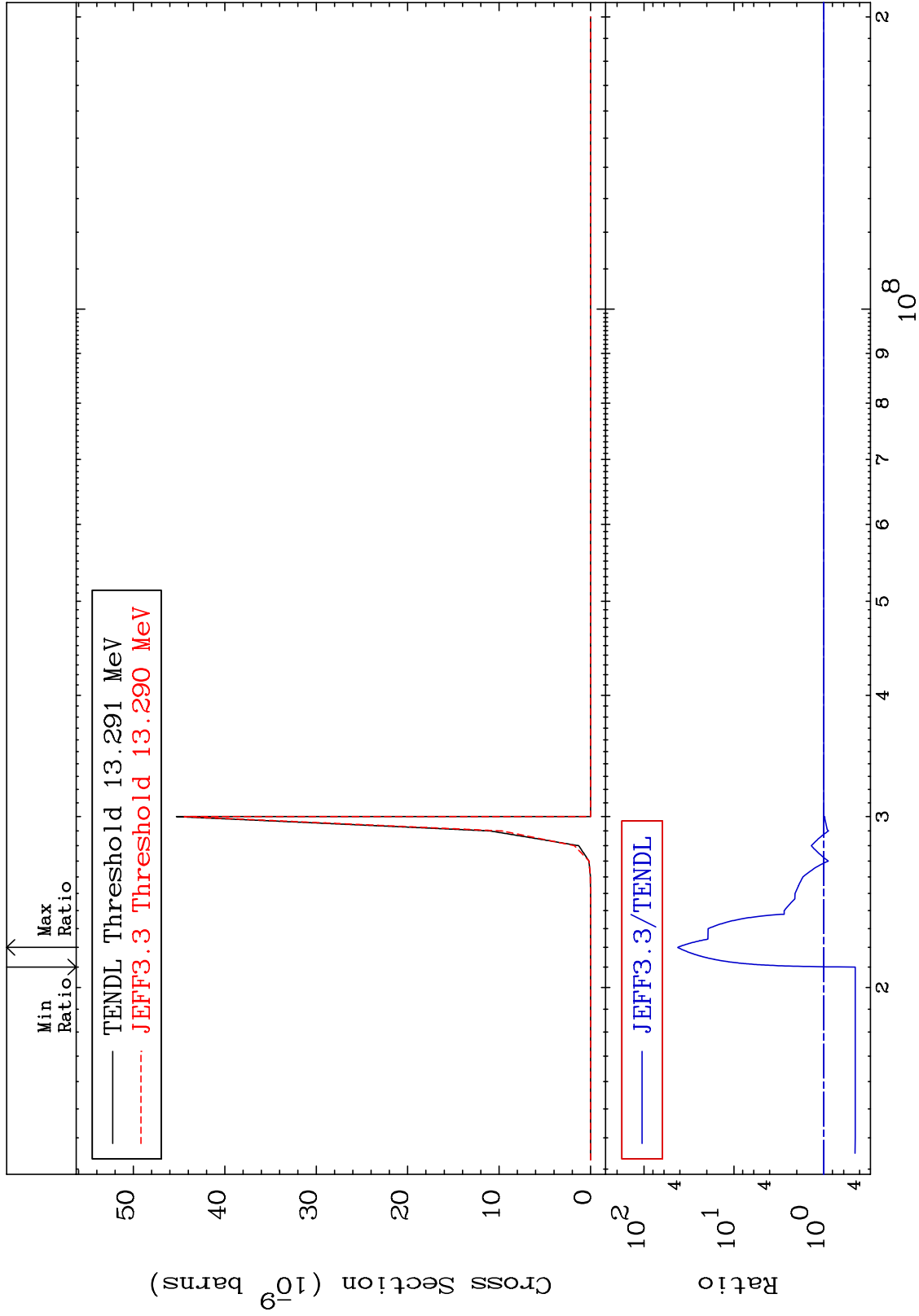
Incident Energy (eV)

35-Br-81

MAT 3531

(n,n') 2α
Cross Section

35-Br-81
-55.45 To 4144. %



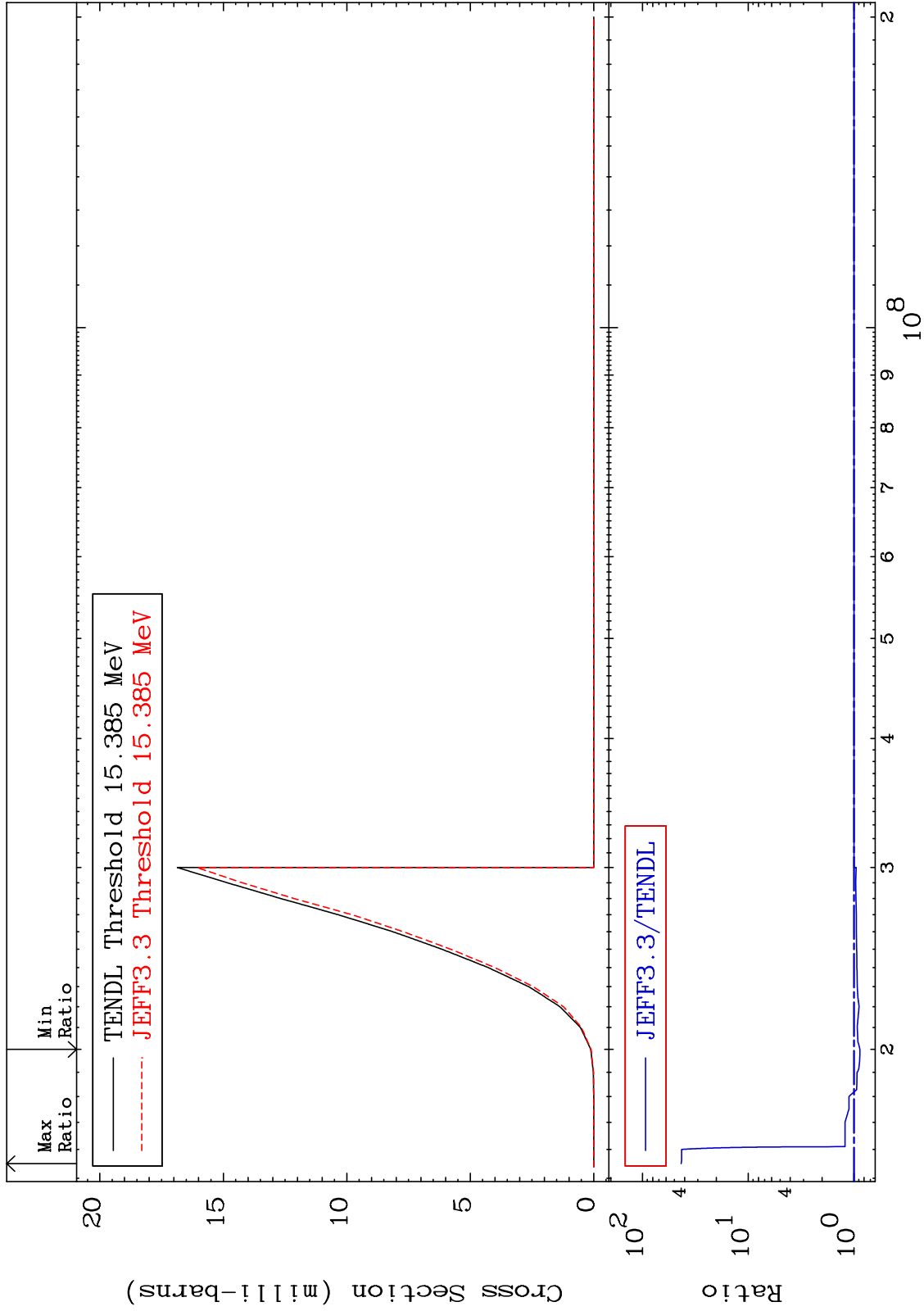
MAT 3531

(n,n') d

35-Br-81

Cross Section

-12.32 To 4204. %



12

Incident Energy (eV)

35-Br-81

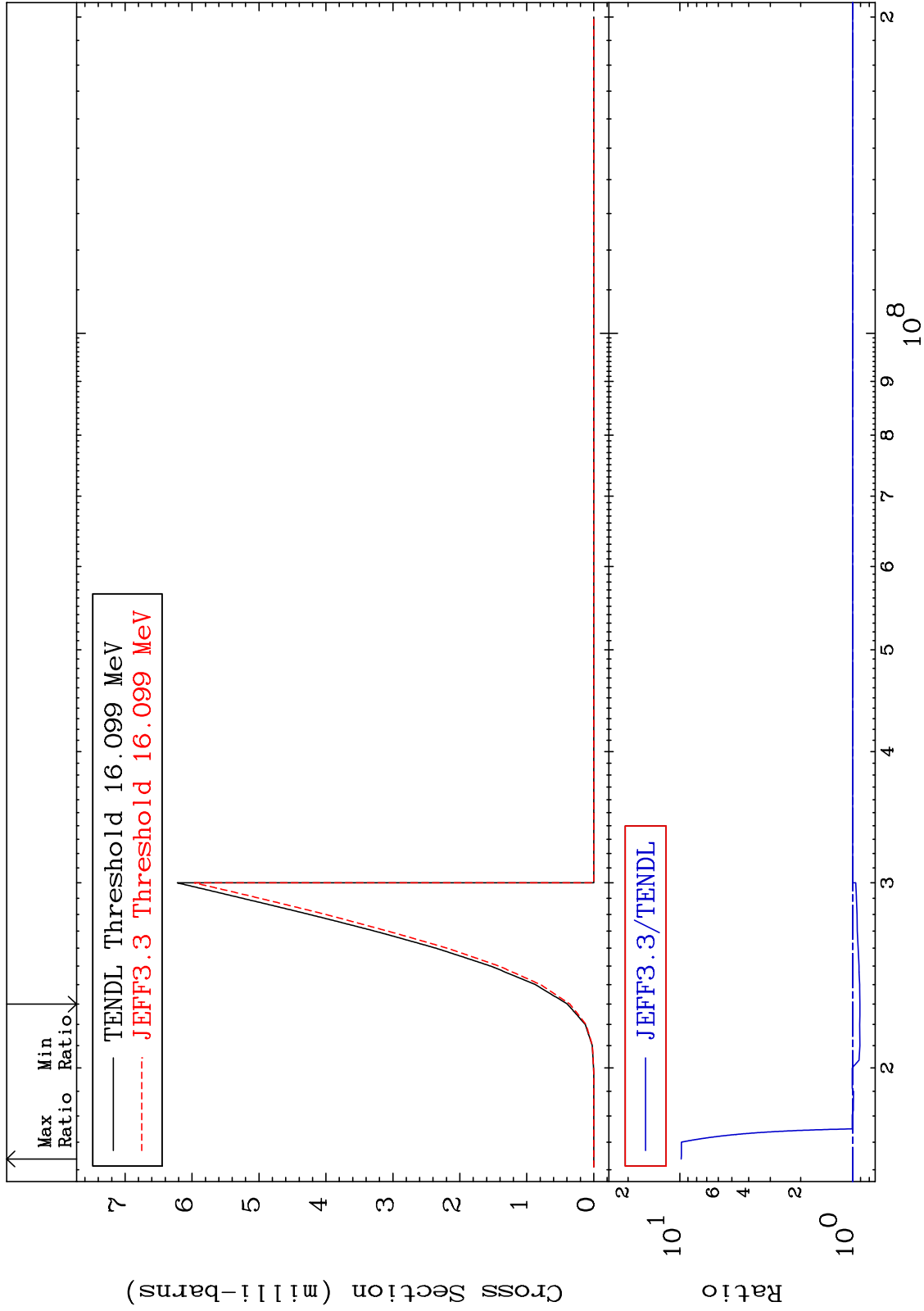
MAT 3531

(n, n') t

35-Br-81

Cross Section

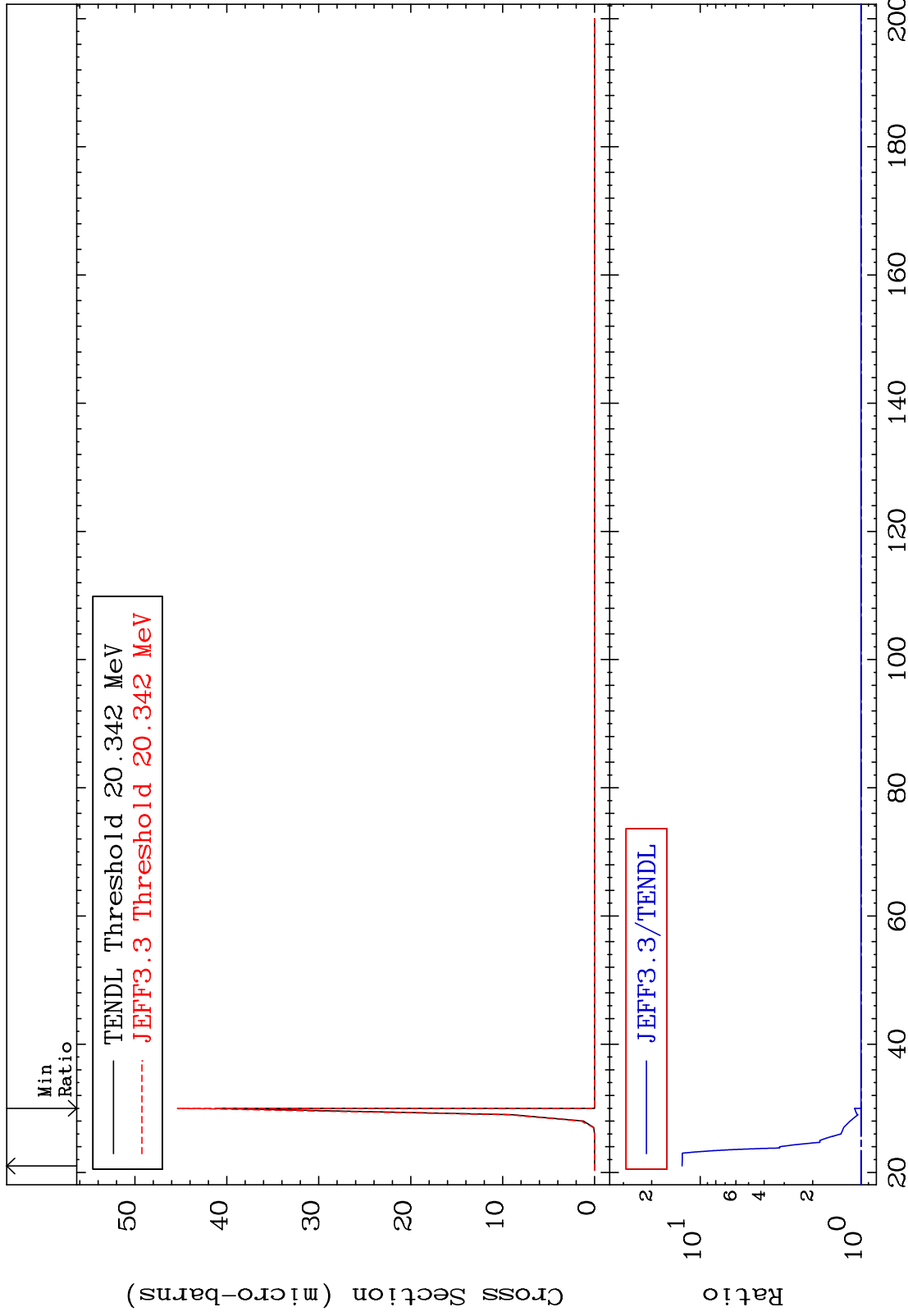
-9.333 To 883.0 %



MAT 3531

(n, n') He-3
Cross Section

35-Br-81
0.000 To 1195. %



14

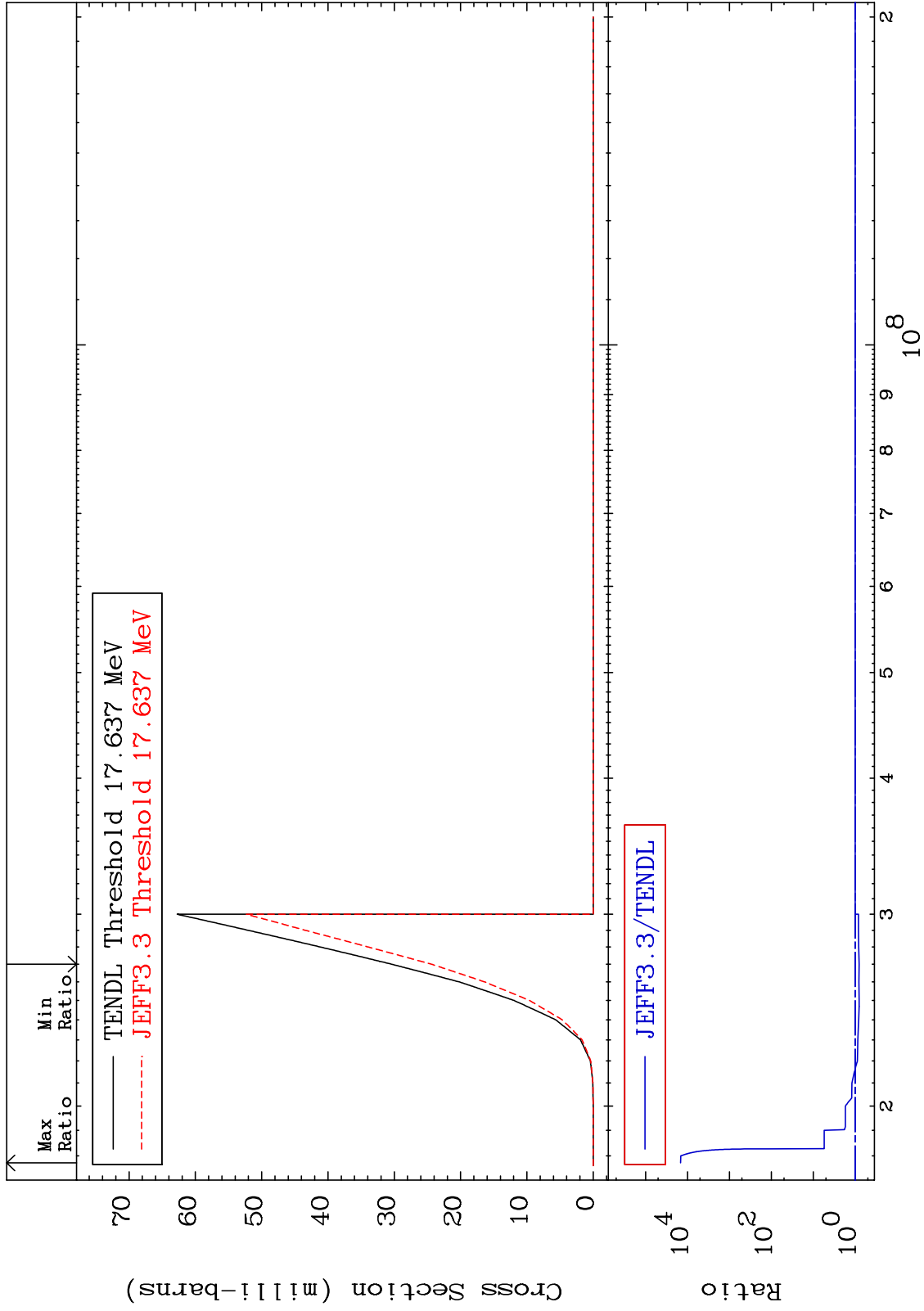
Incident Energy (MeV)

35-Br-81

MAT 3531

(n,2n) p
Cross Section

35-Br-81
-19.77 To 9999. %



15

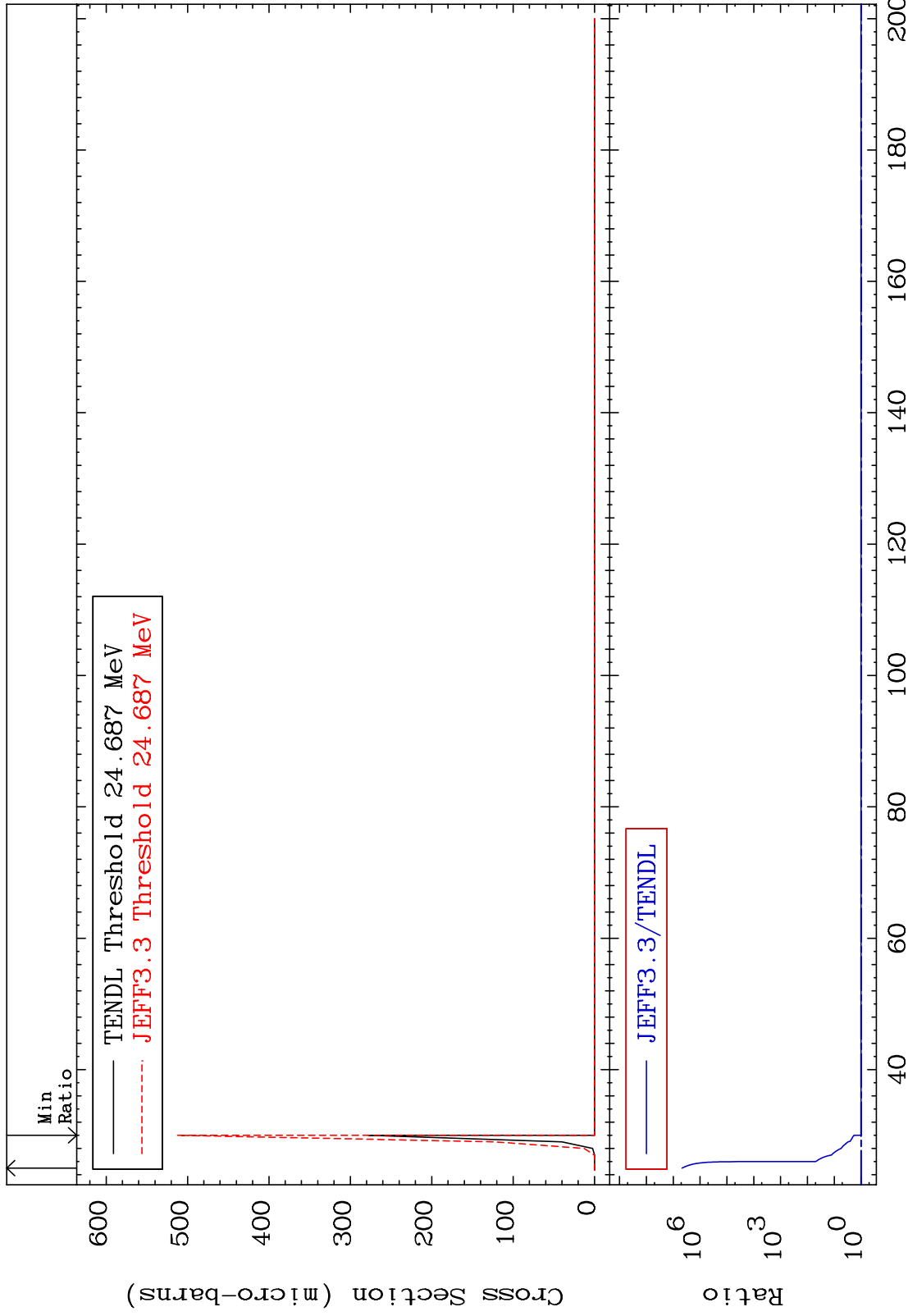
Incident Energy (eV)

35-Br-81

MAT 3531

(n,3n) p
Cross Section

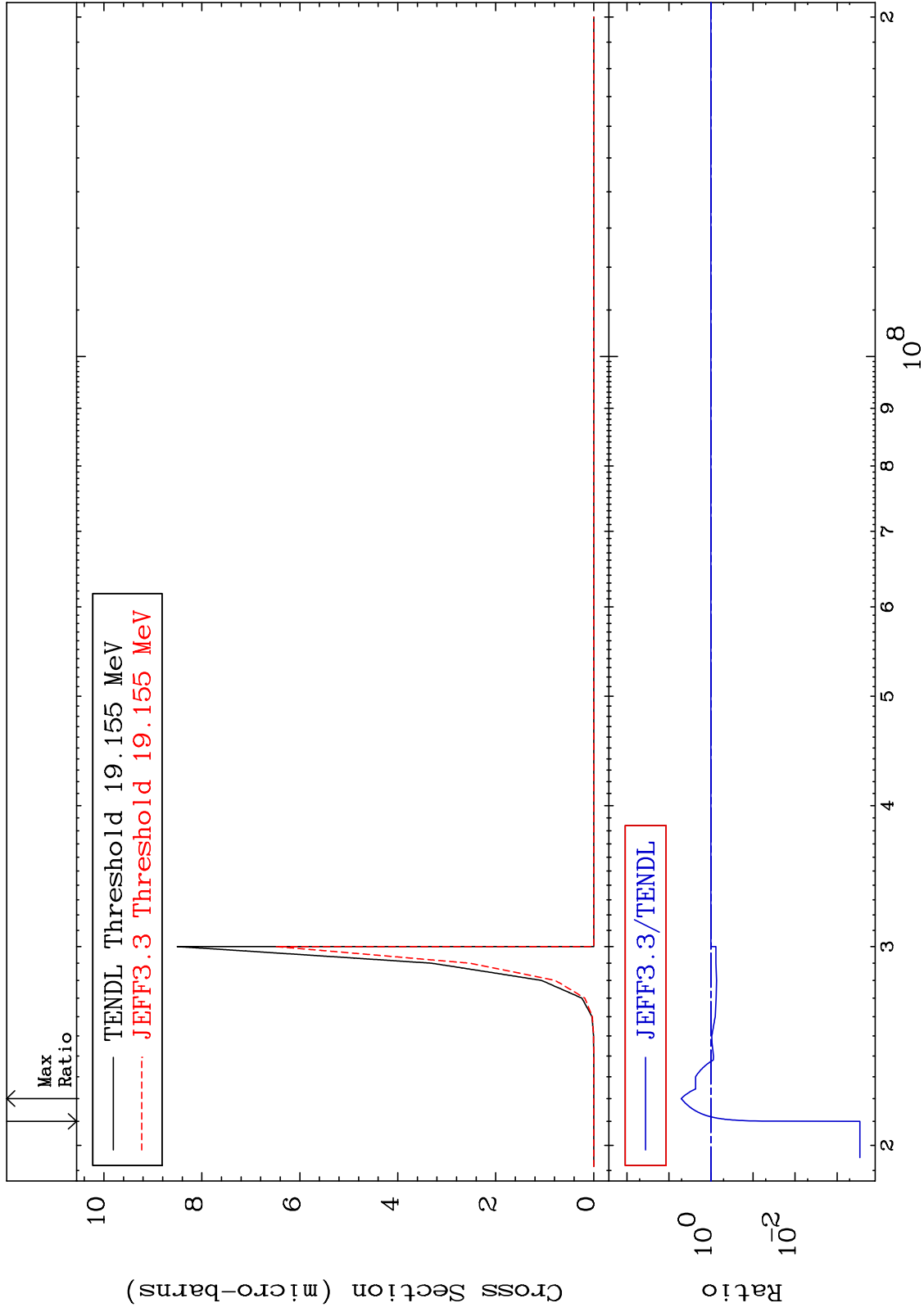
35-Br-81
0.000 To 9999. %



MAT 3531

(n,2n) p
Cross Section

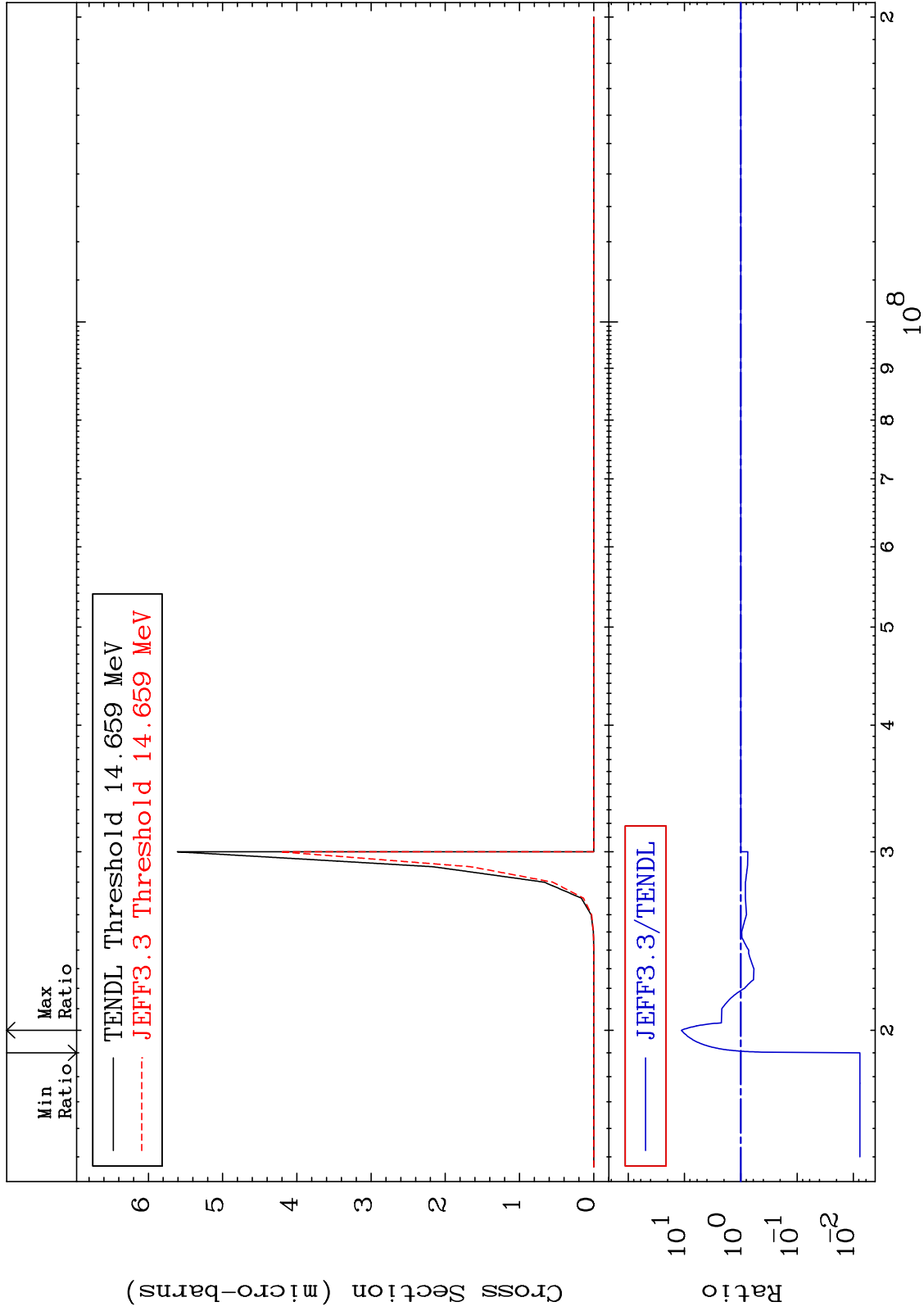
35-Br-81
-99.97 To 410.2 %



MAT 3531

(n,n') p α
Cross Section

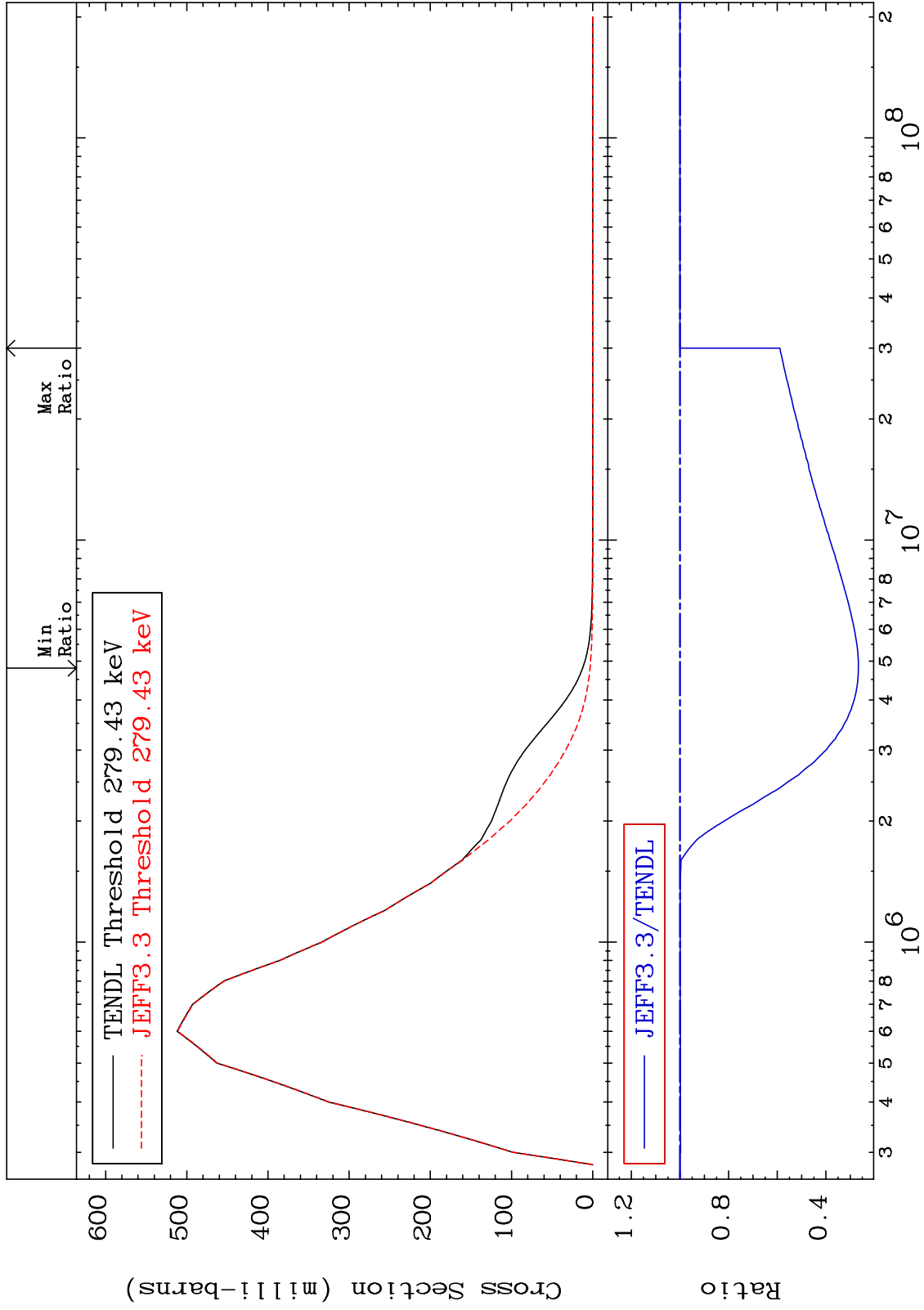
³⁵Br-81
-99.23 To 1045. %



MAT 3531

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

35-Br-81
-73.36 To 0.000 %



19

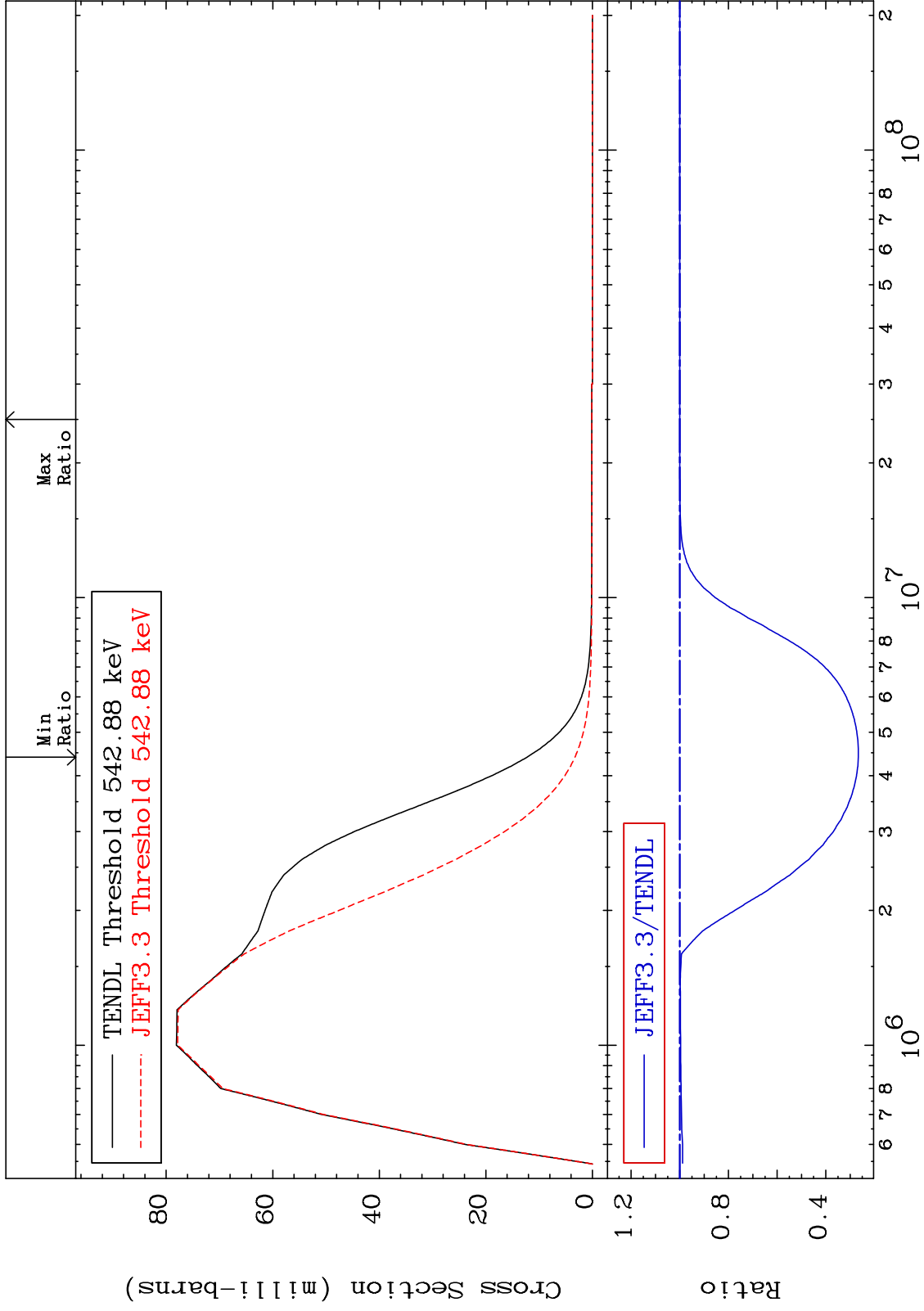
Incident Energy (eV)

35-Br-81

MAT 3531

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

35-Br-81
-73.36 To 0.000 %



20

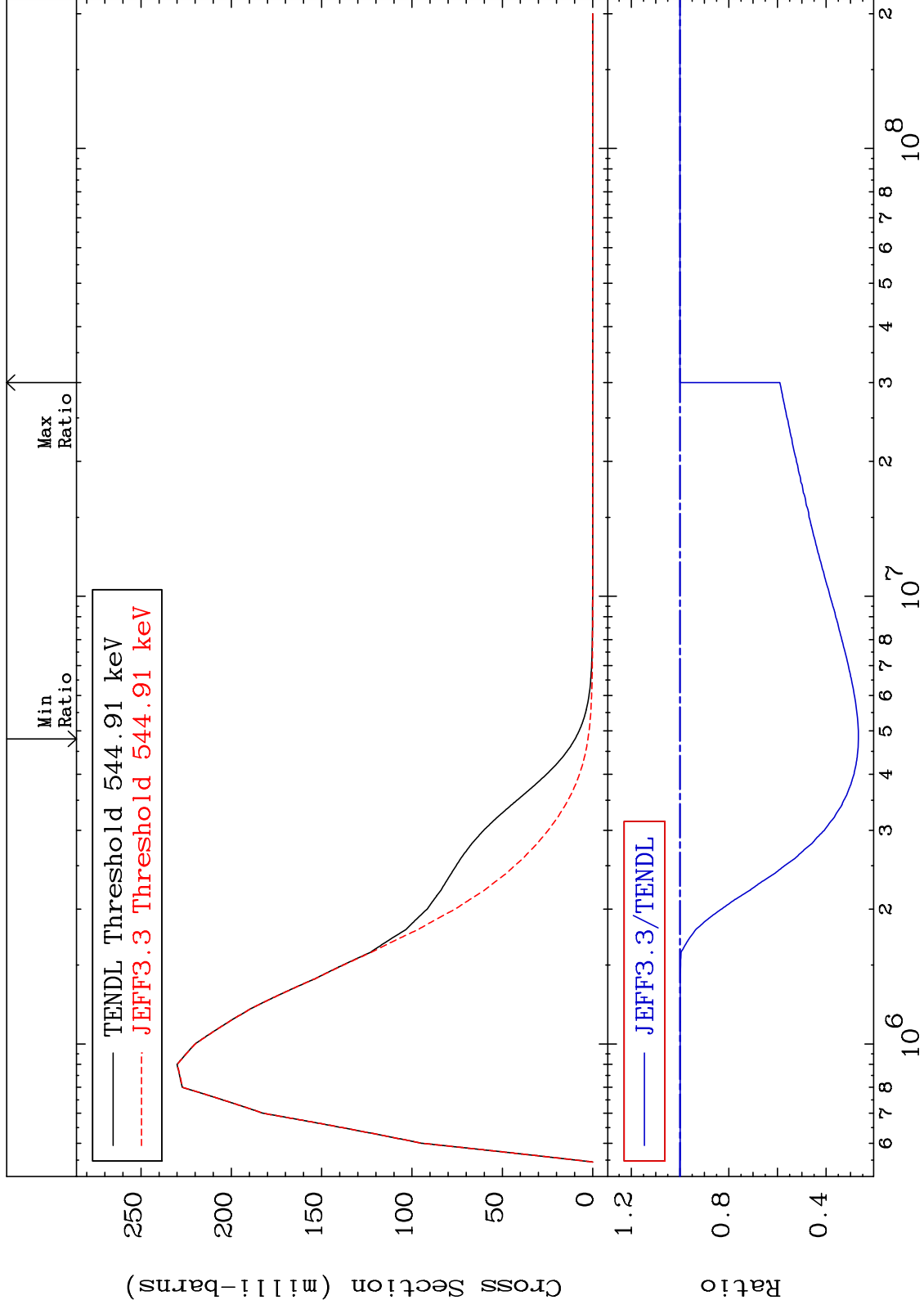
Incident Energy (eV)

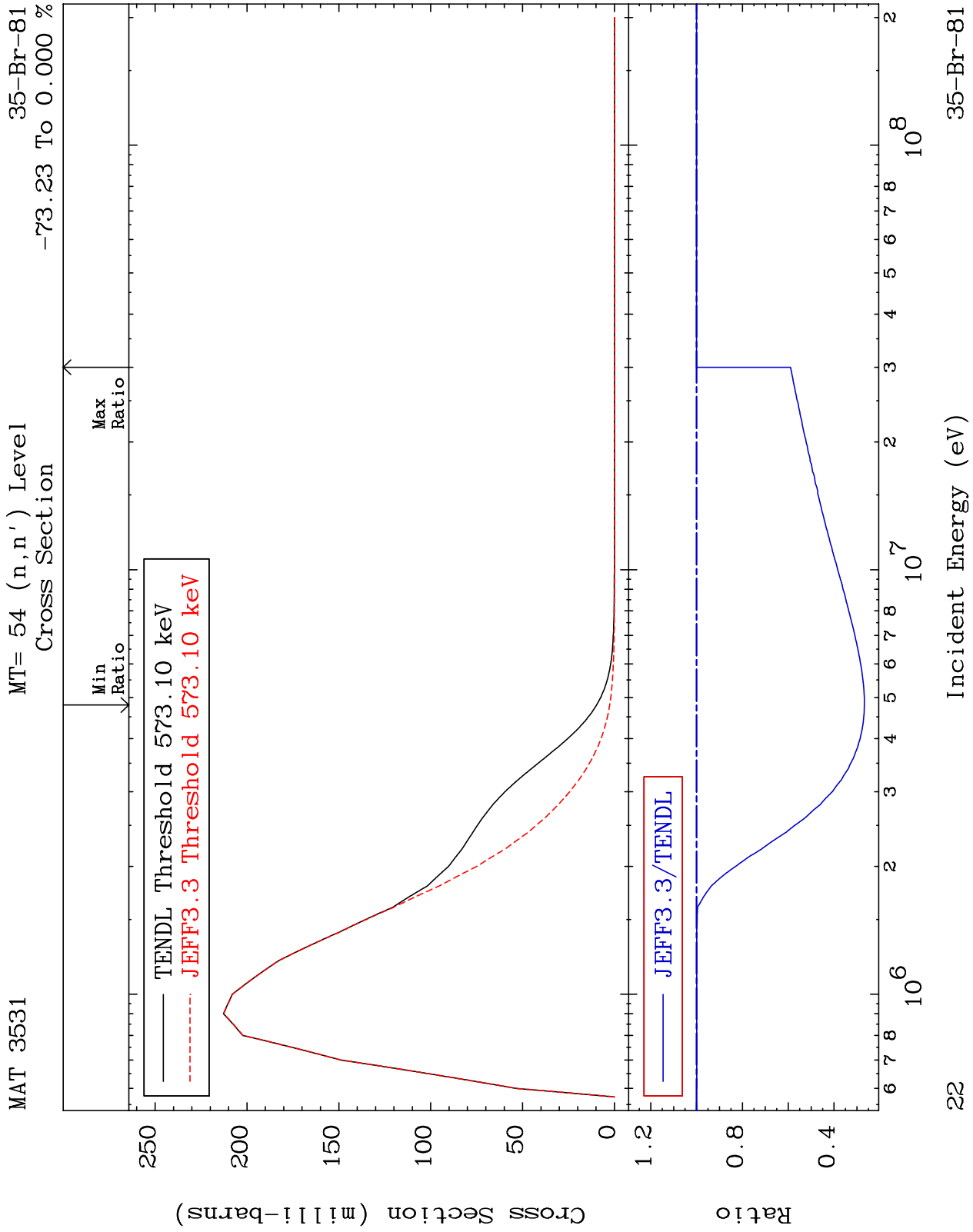
35-Br-81

MAT 3531

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

35-Br-81
-73.23 To 0.000 %

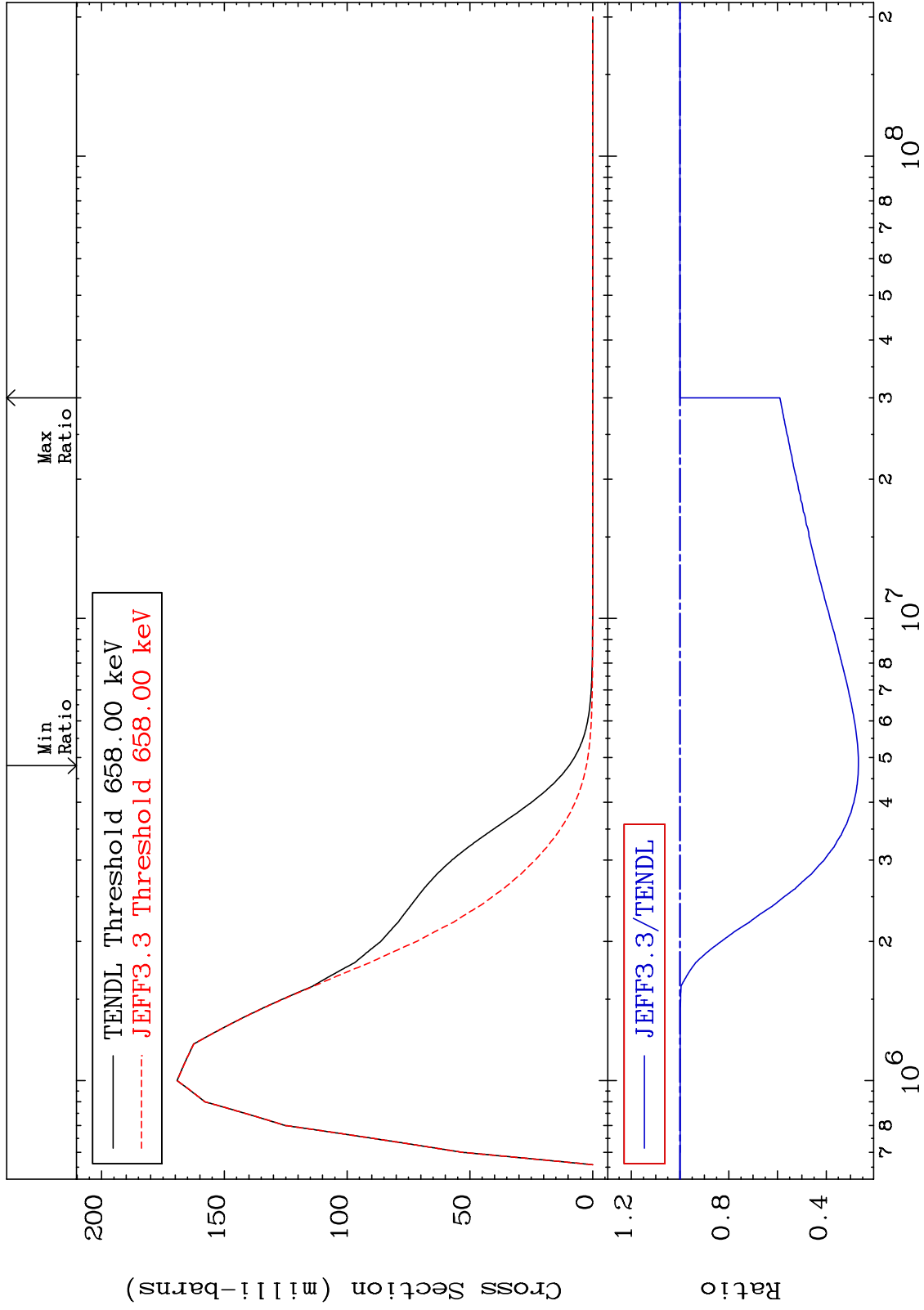




MAT 3531

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

35-Br-81
-73.22 To 0.000 %



23

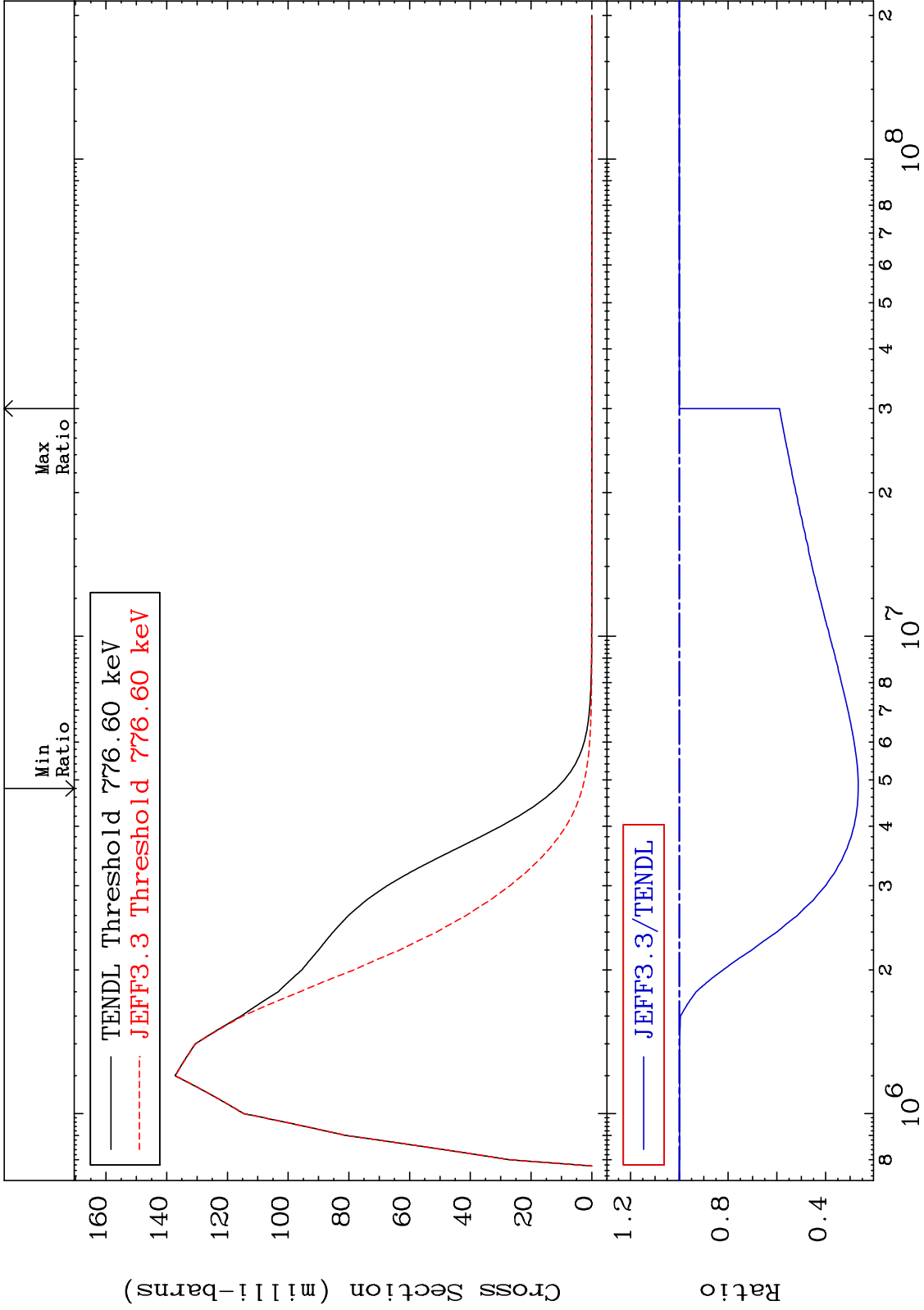
Incident Energy (eV)

35-Br-81

MAT 3531

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

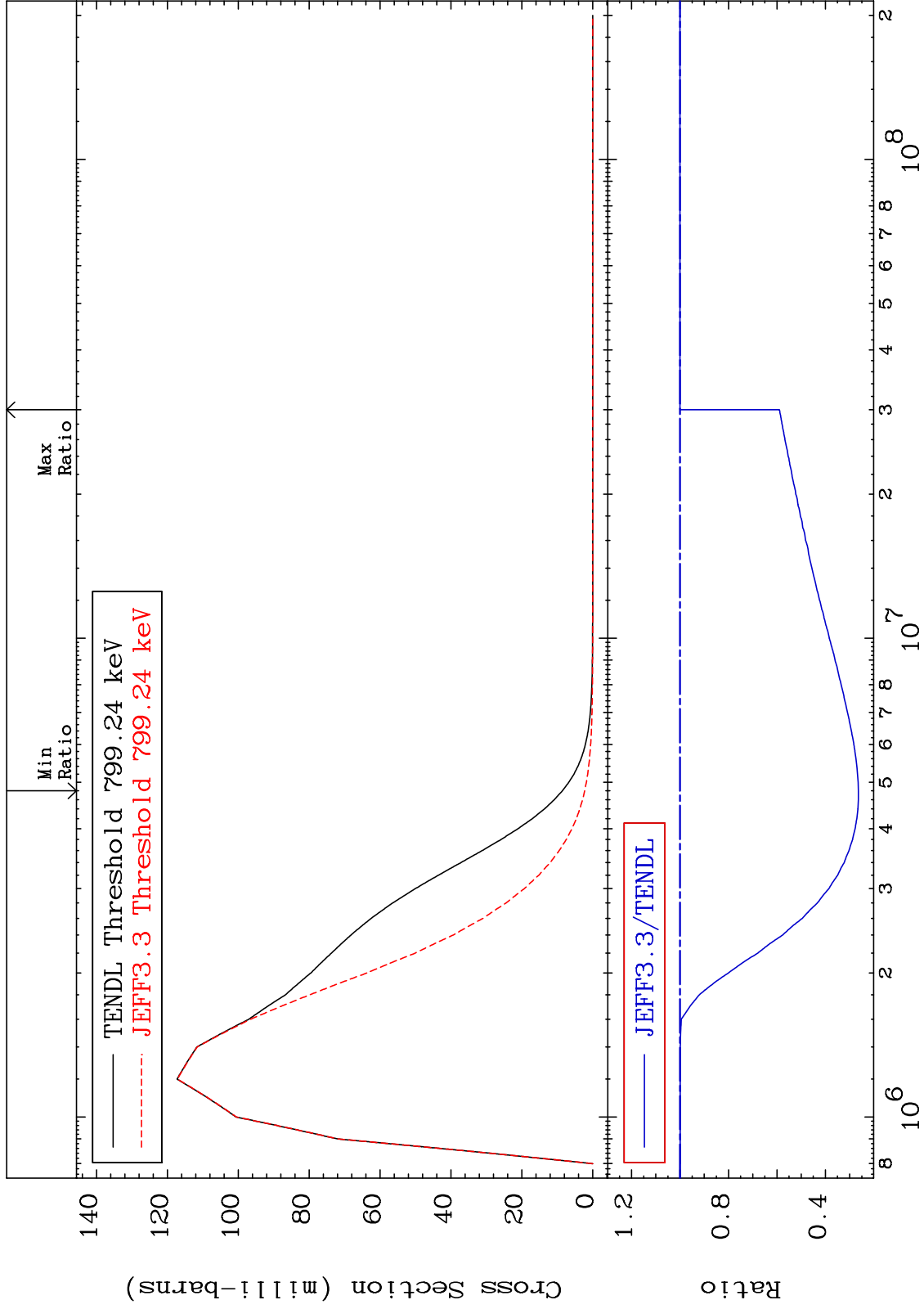
35-Br-81
-73.35 To 0.000 %



MAT 3531

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

35-Br-81
-73.62 To 0.000 %



25

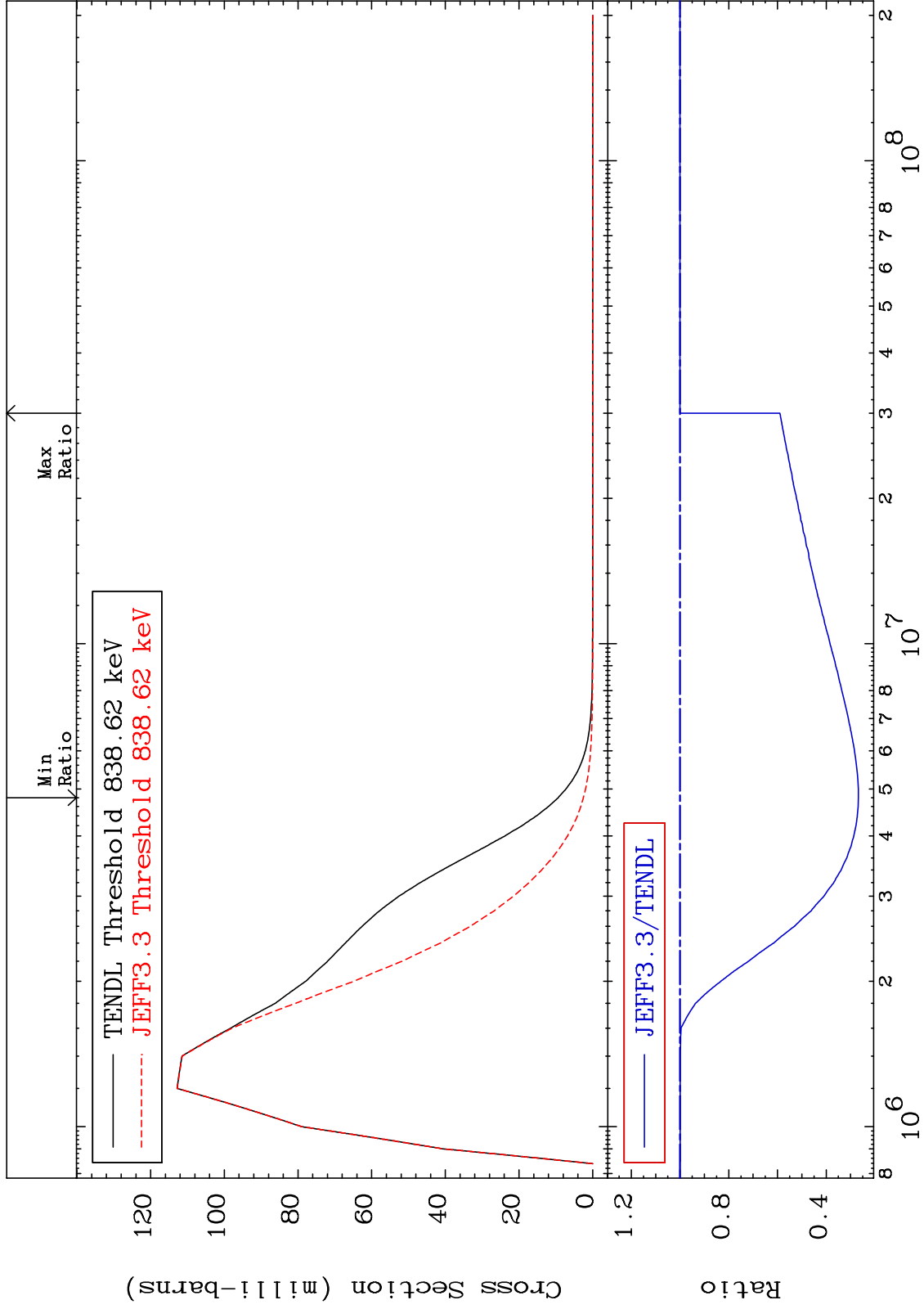
Incident Energy (eV)

35-Br-81

MAT 3531

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

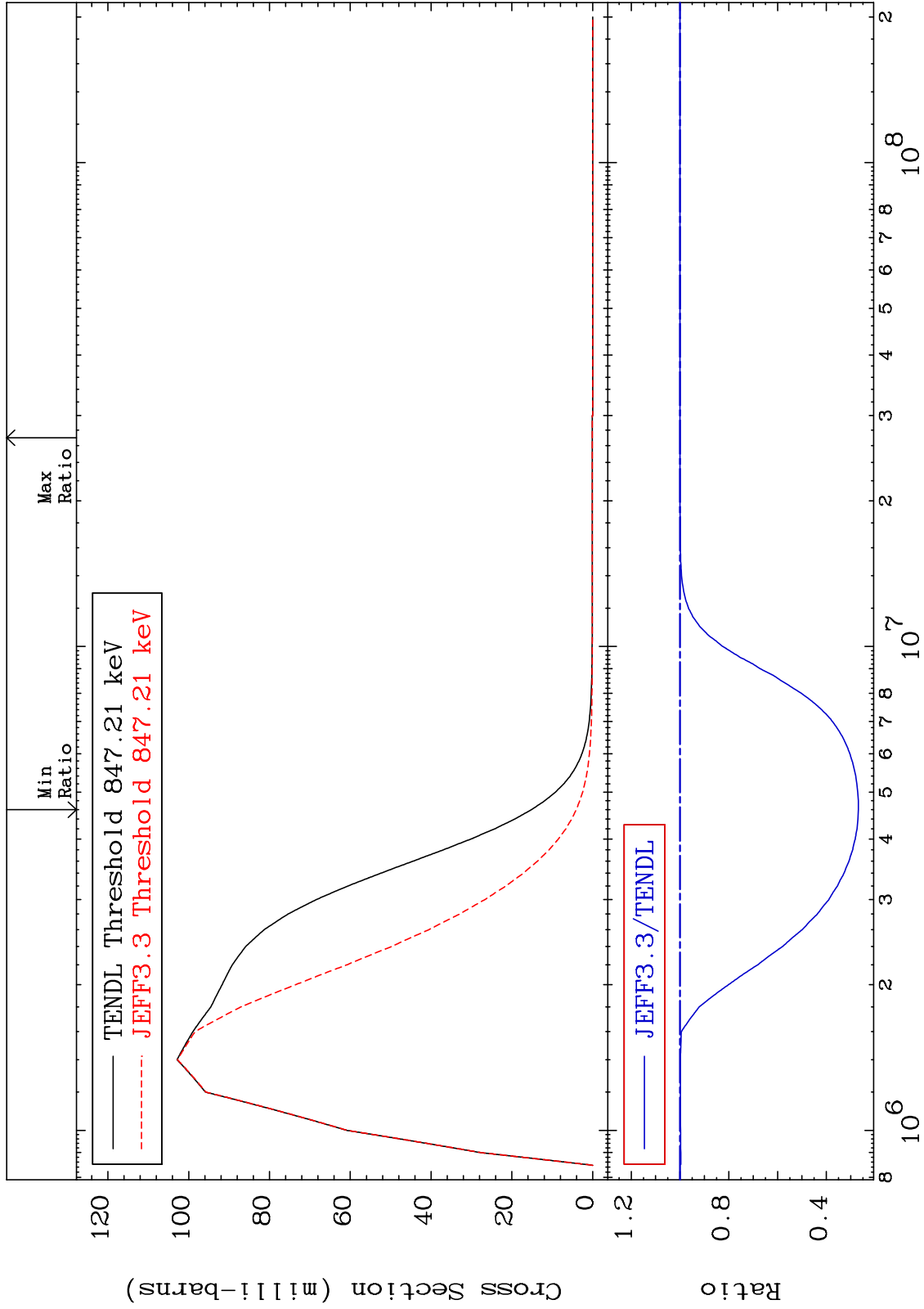
35-Br-81
-73.22 To 0.000 %



MAT 3531

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

35-Br-81
-73.14 To 0.000 %



27

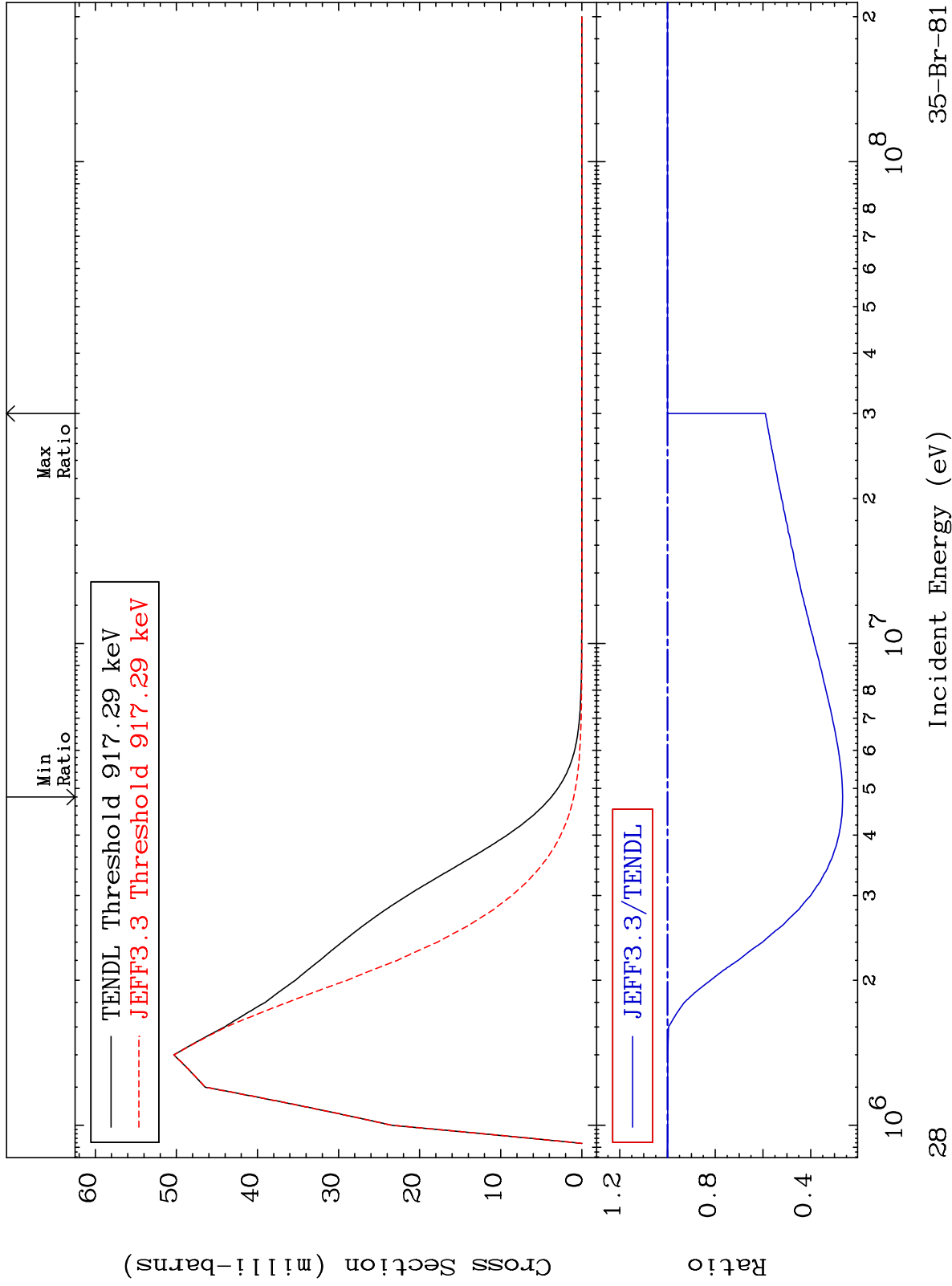
Incident Energy (eV)

35-Br-81

MAT 3531

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

35-Br-81
-73.38 To 0.000 %

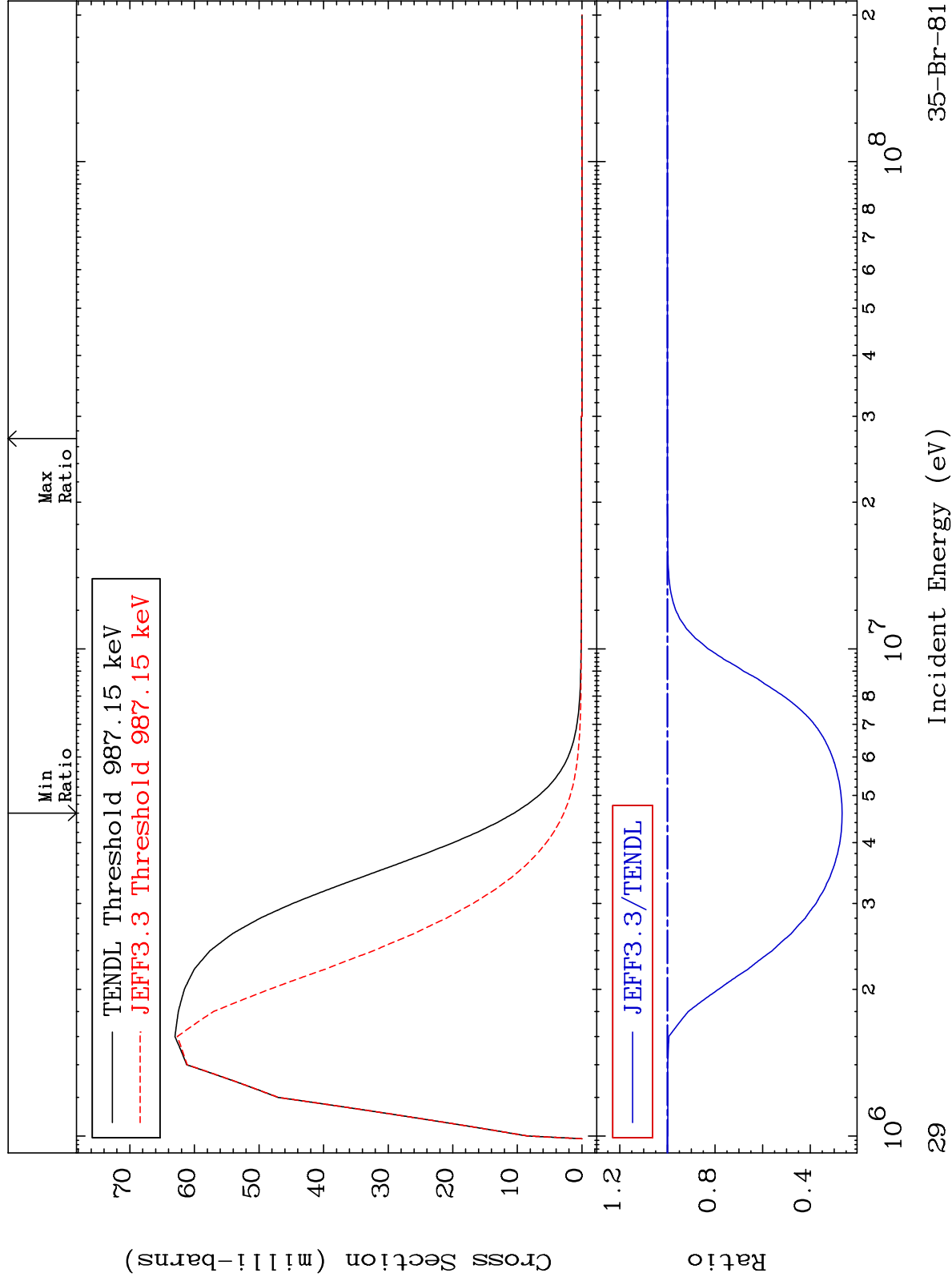


28

MAT 3531

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

35-Br-81
-73.34 To 0.000 %



29

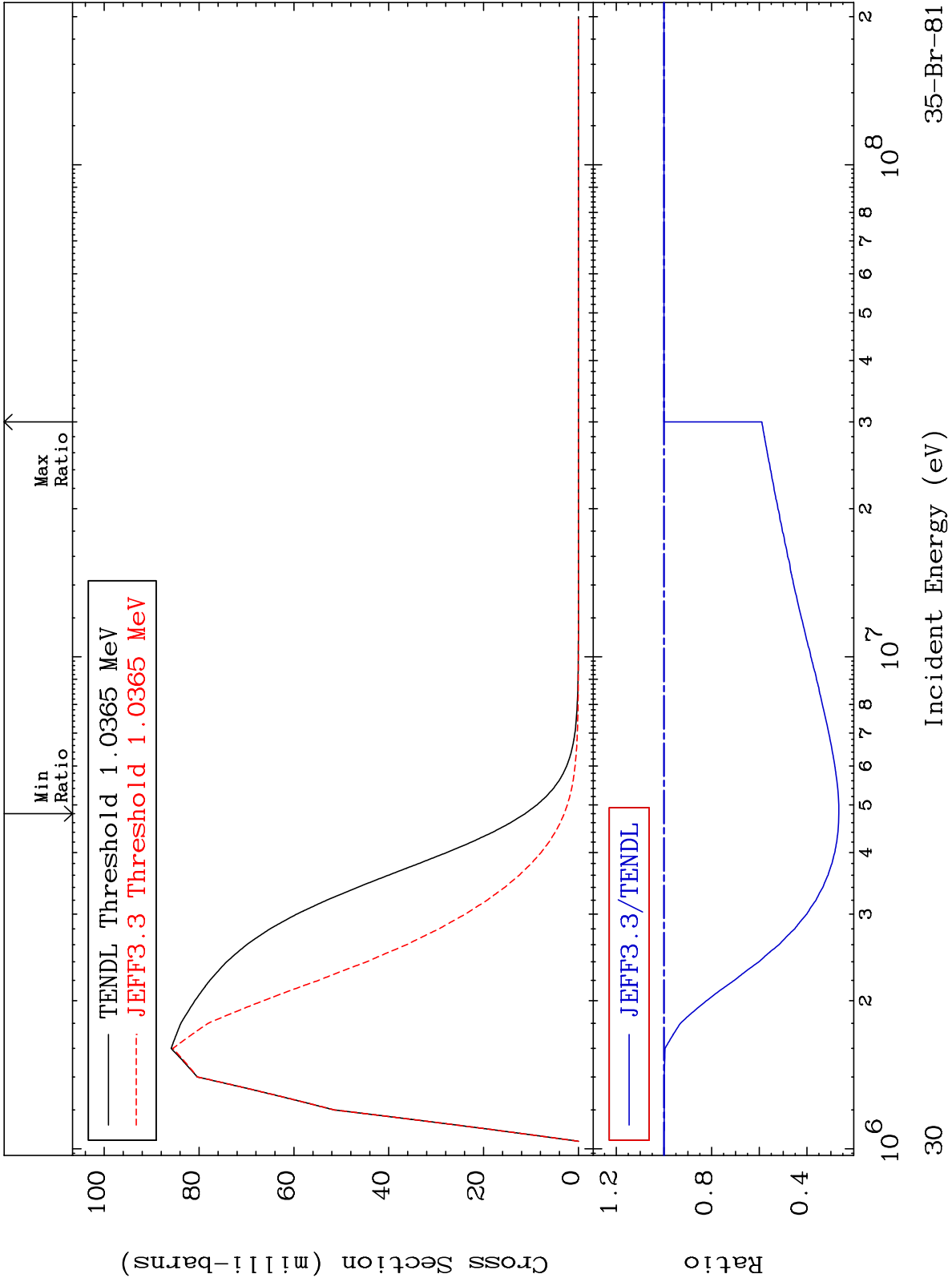
Incident Energy (eV)

35-Br-81

MAT 3531

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

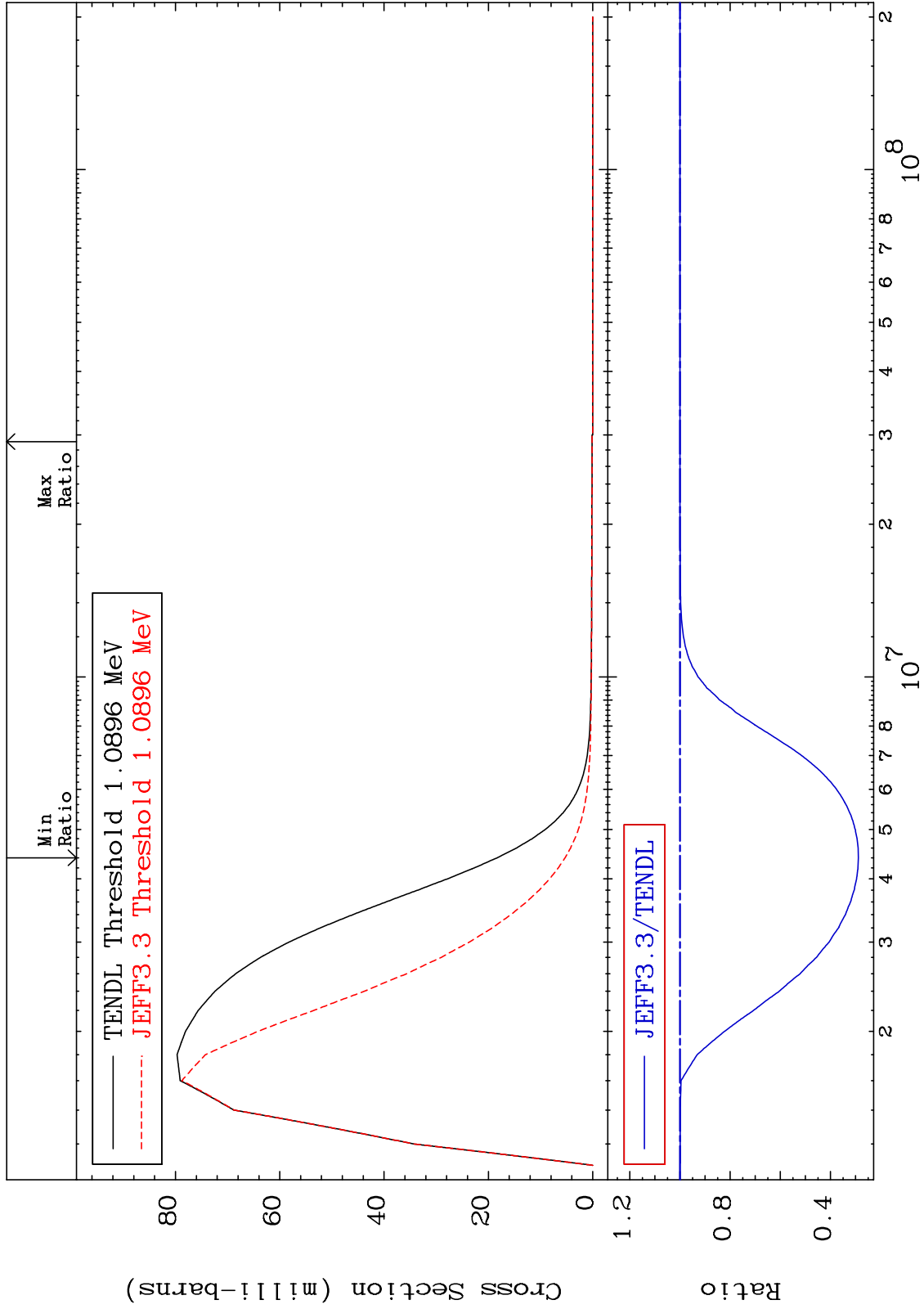
35-Br-81
-73.35 To 0.000 %



MAT 3531

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

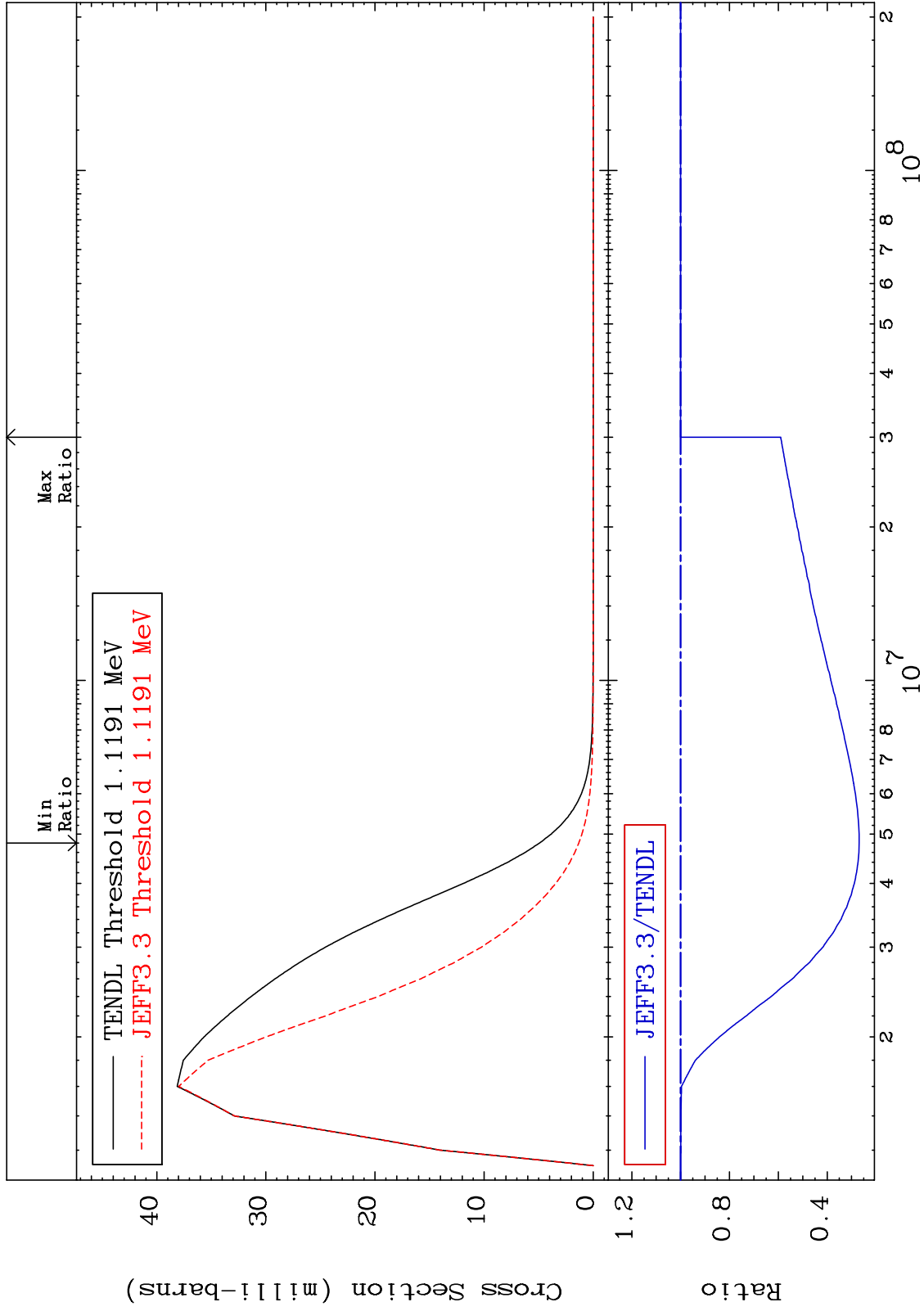
35-Br-81
-71.12 To 0.000 %



MAT 3531

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

35-Br-81
-73.11 To 0.000 %



32

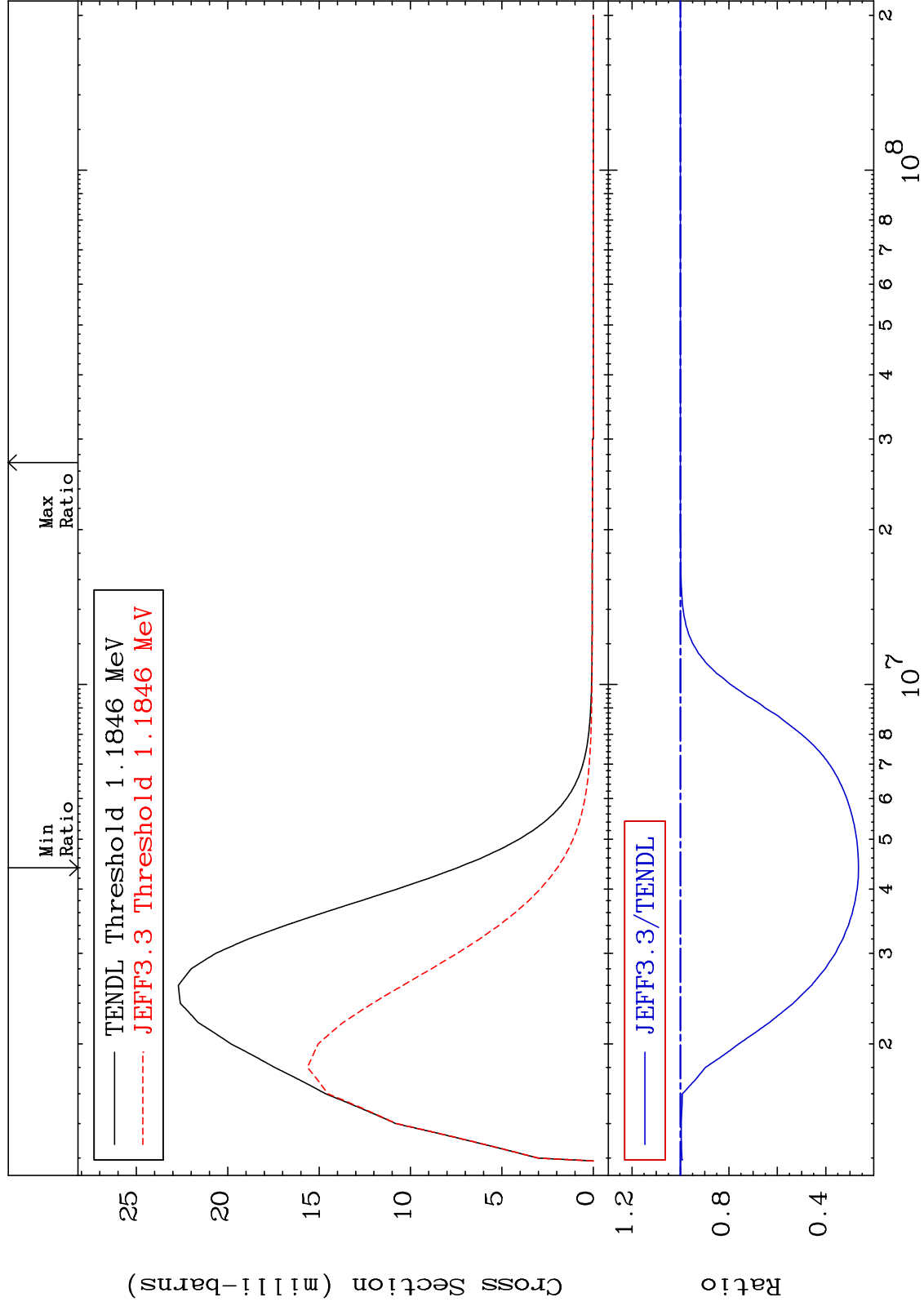
Incident Energy (eV)

35-Br-81

MAT 3531

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

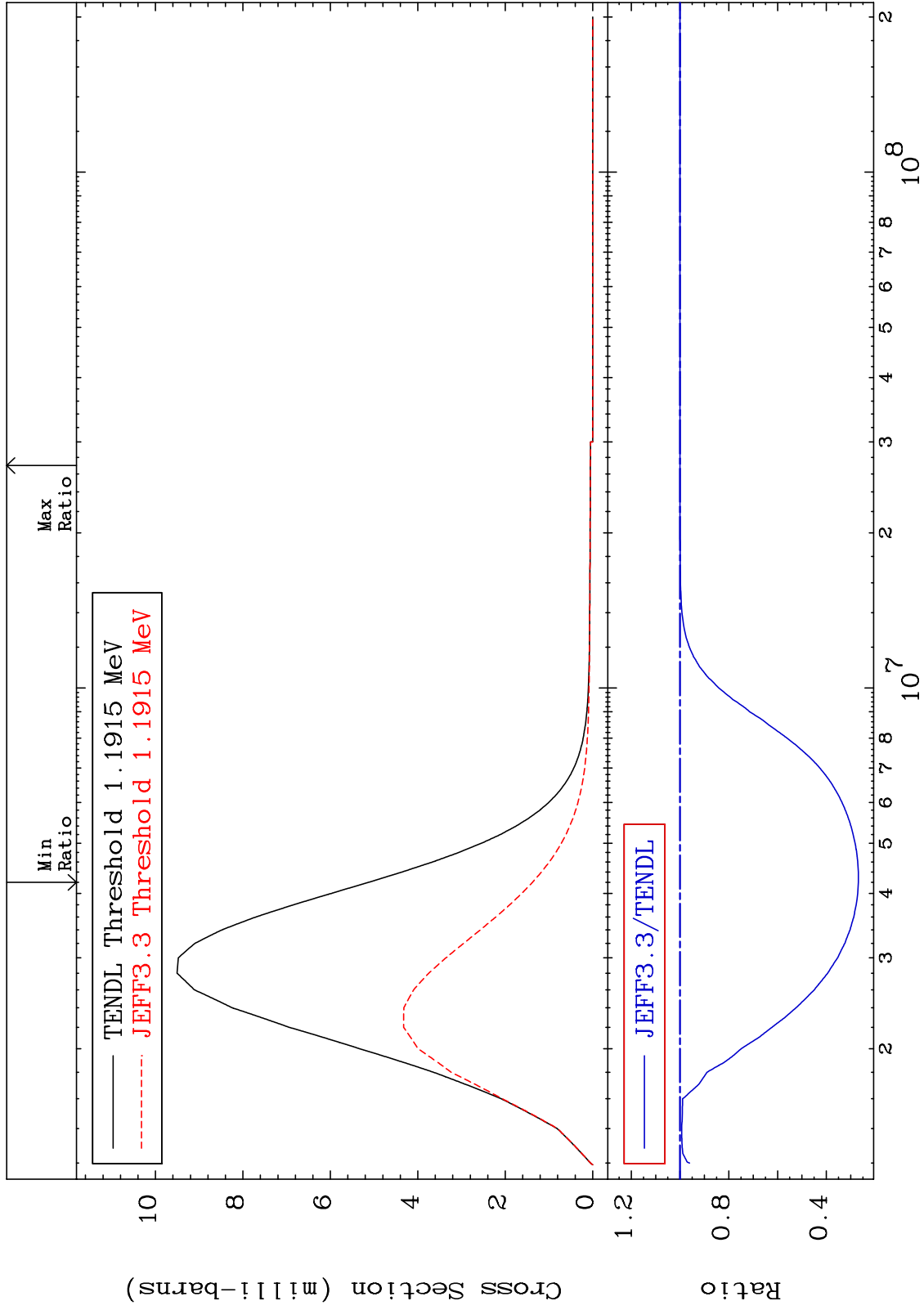
35-Br-81
-73.53 To 0.000 %



MAT 3531

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

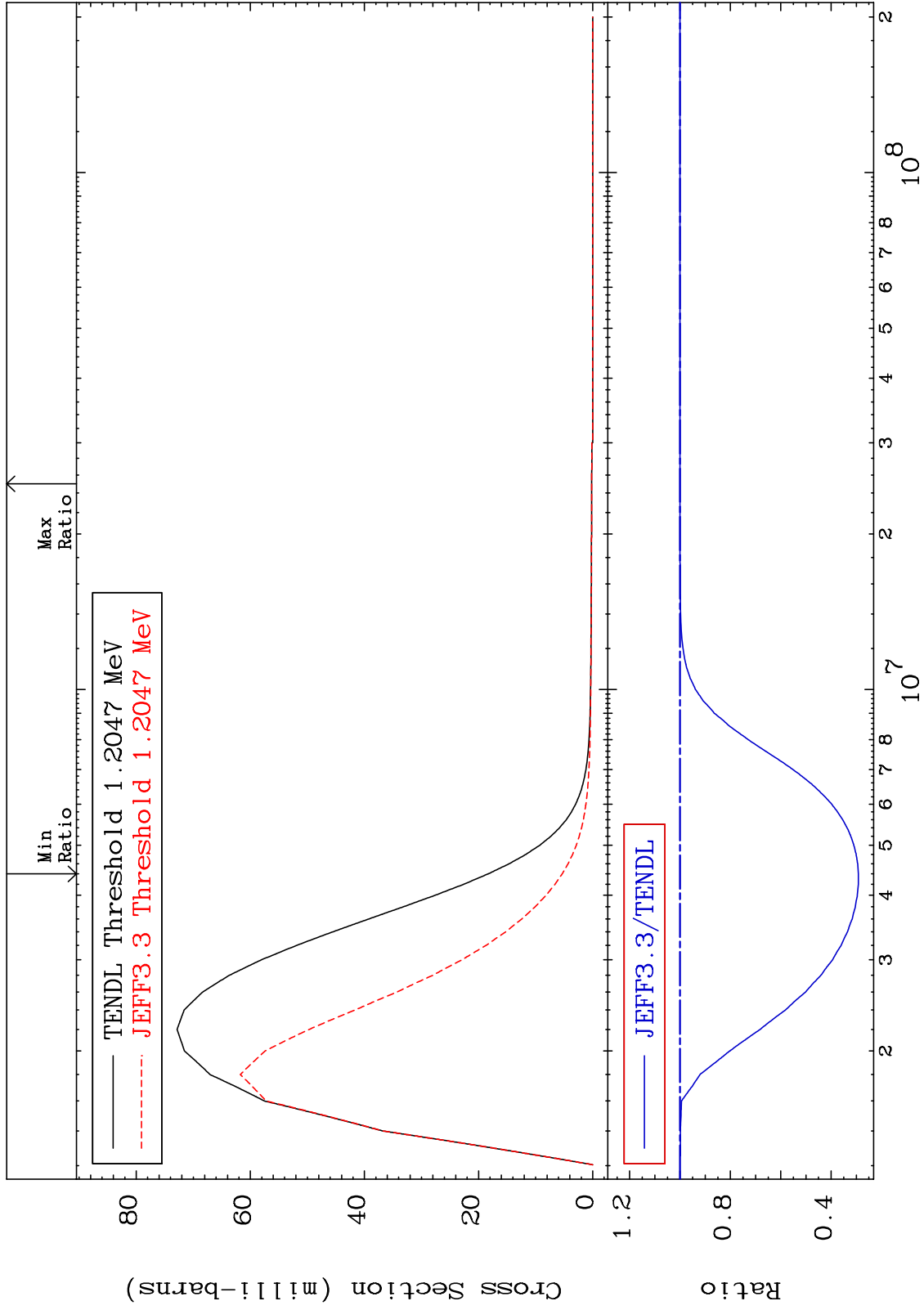
35-Br-81
-73.16 To 0.000 %



MAT 3531

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

35-Br-81
-70.82 To 0.000 %



35

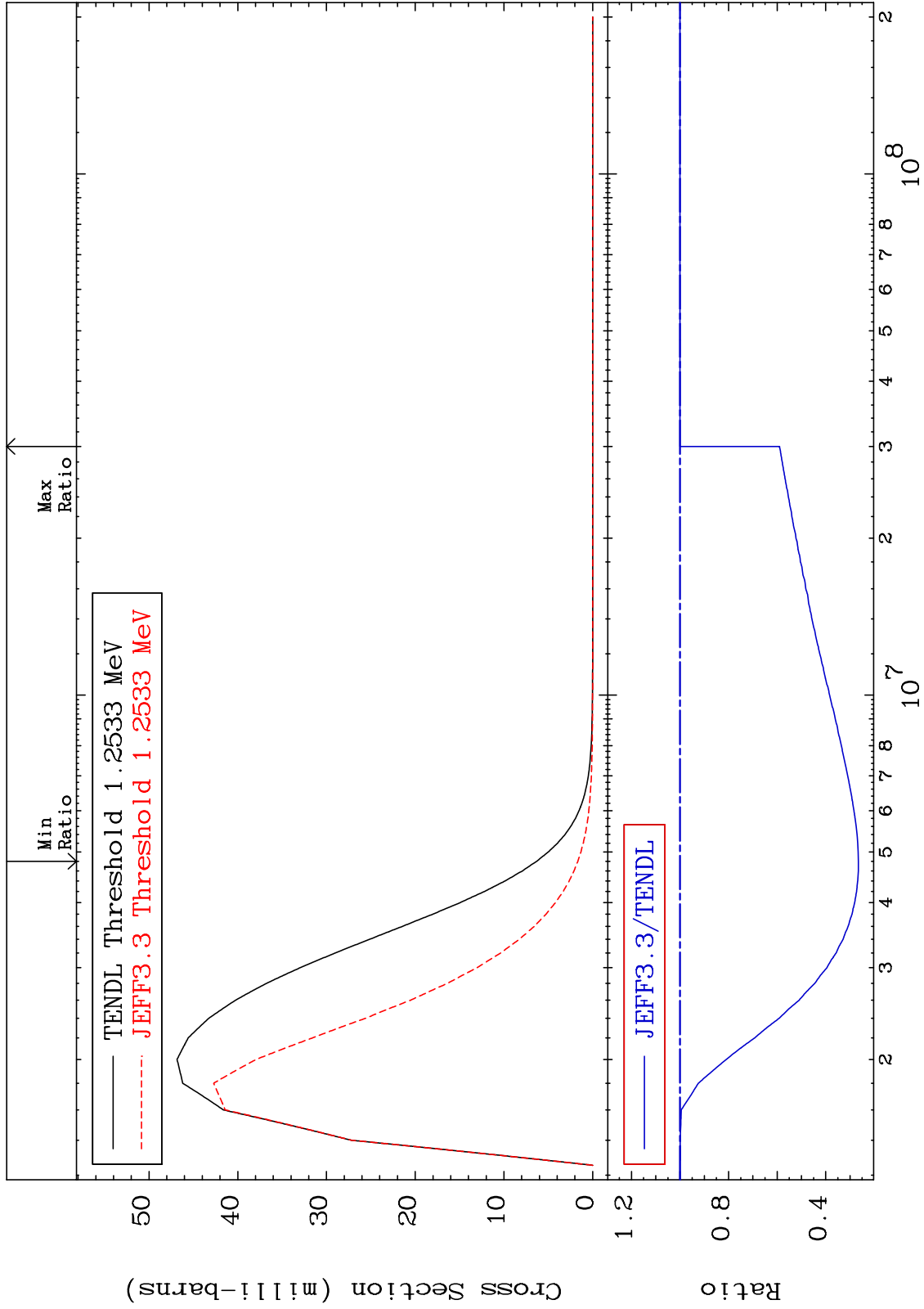
Incident Energy (eV)

35-Br-81

MAT 3531

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

35-Br-81
-73.46 To 0.000 %



36

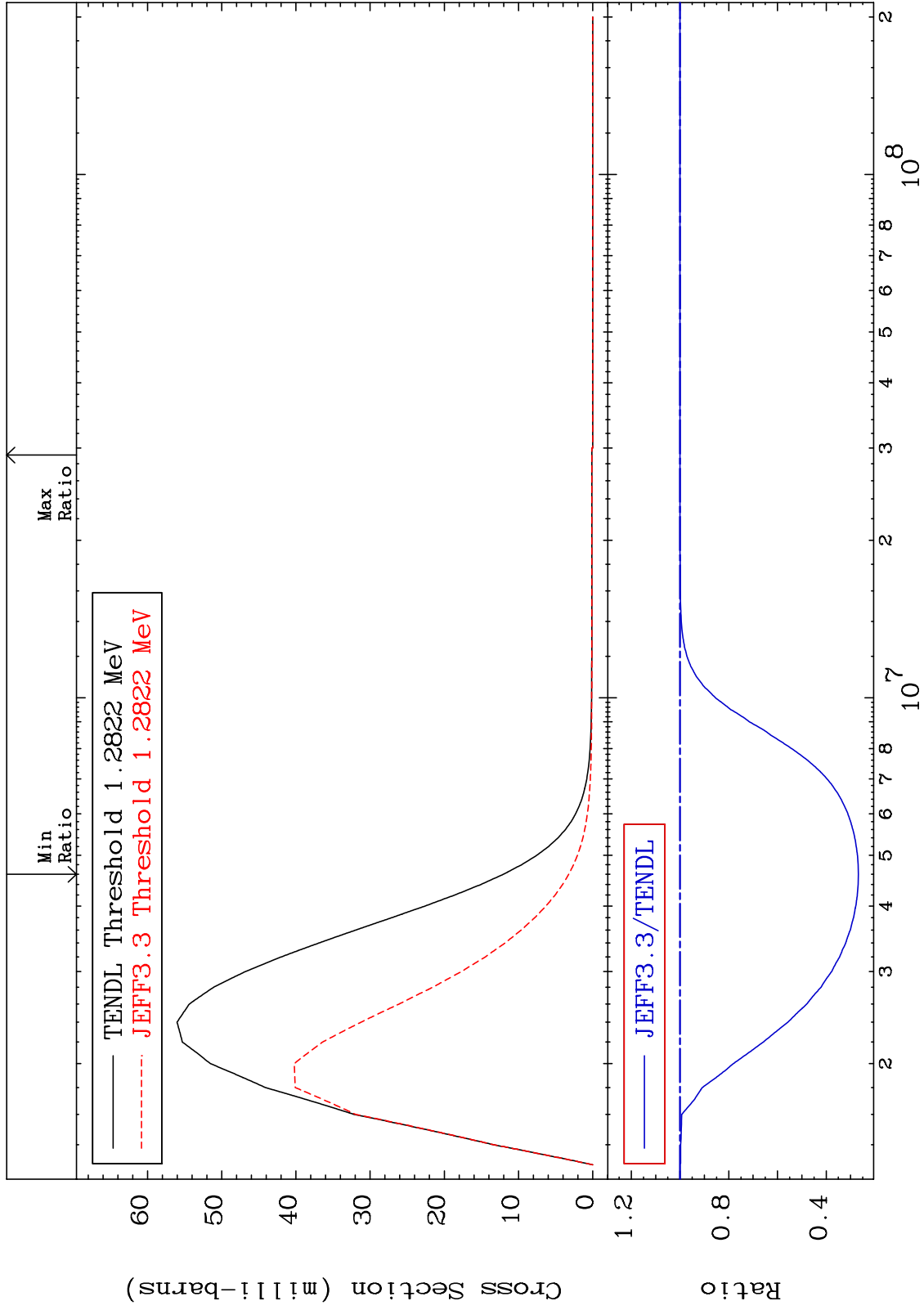
Incident Energy (eV)

35-Br-81

MAT 3531

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

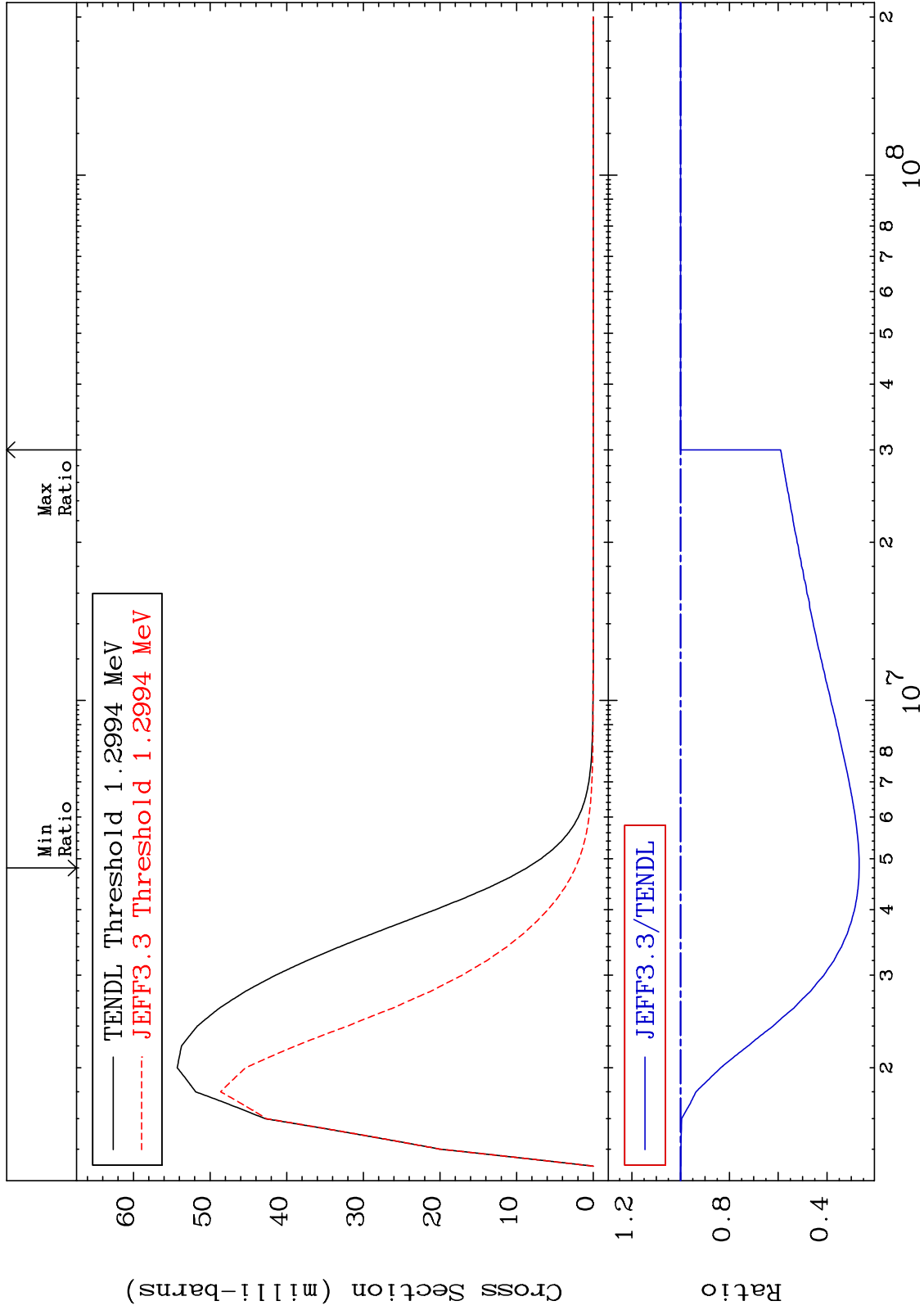
35-Br-81
-73.21 To 0.000 %



MAT 3531

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

35-Br-81
-73.21 To 0.000 %



38

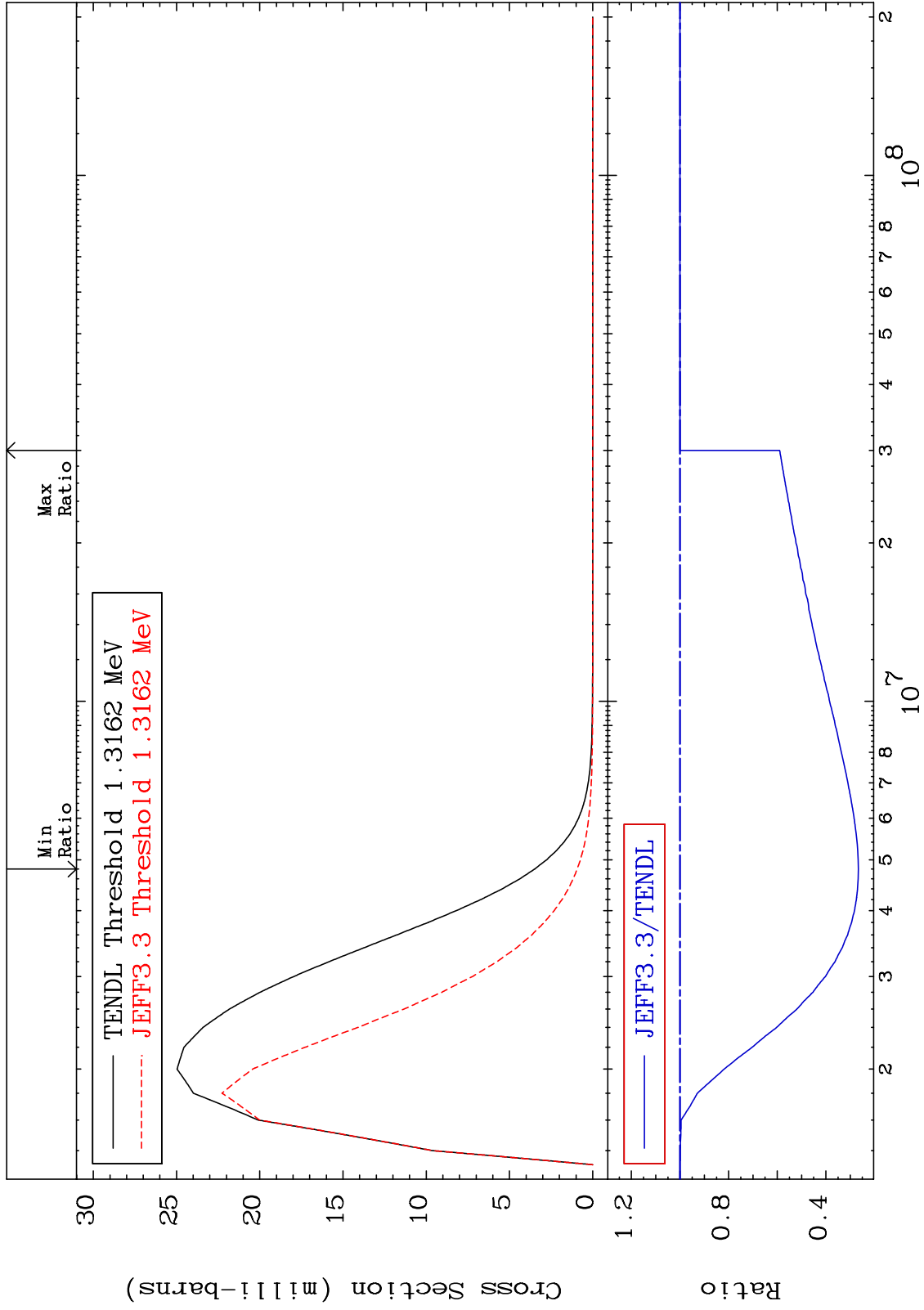
Incident Energy (eV)

35-Br-81

MAT 3531

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

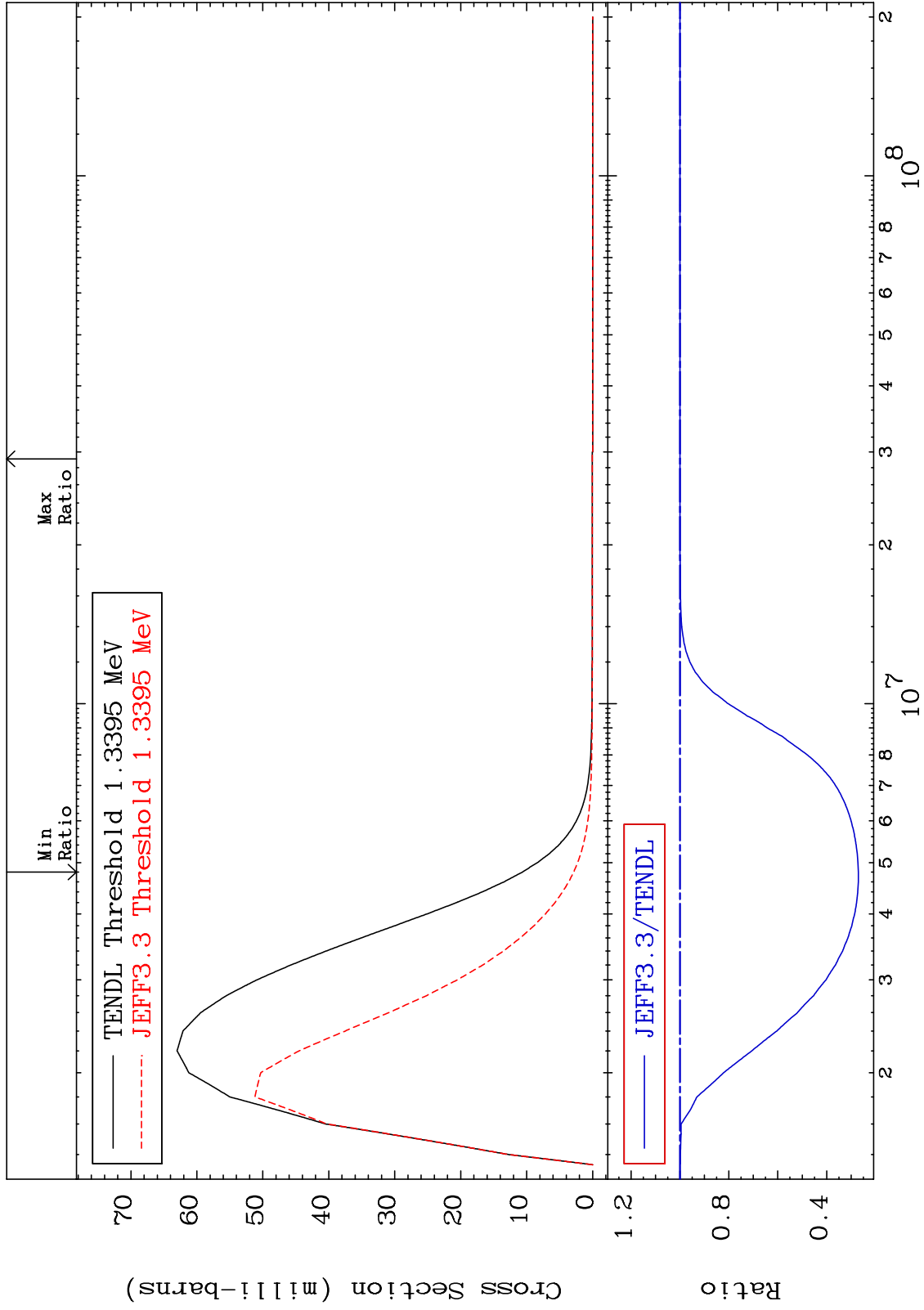
35-Br-81
-73.37 To 0.000 %



MAT 3531

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

35-Br-81
-73.00 To 0.000 %



— TENDL Threshold 1.3395 MeV
- - - JEFF3.3 Threshold 1.3395 MeV

— JEFF3.3/TENDL

40

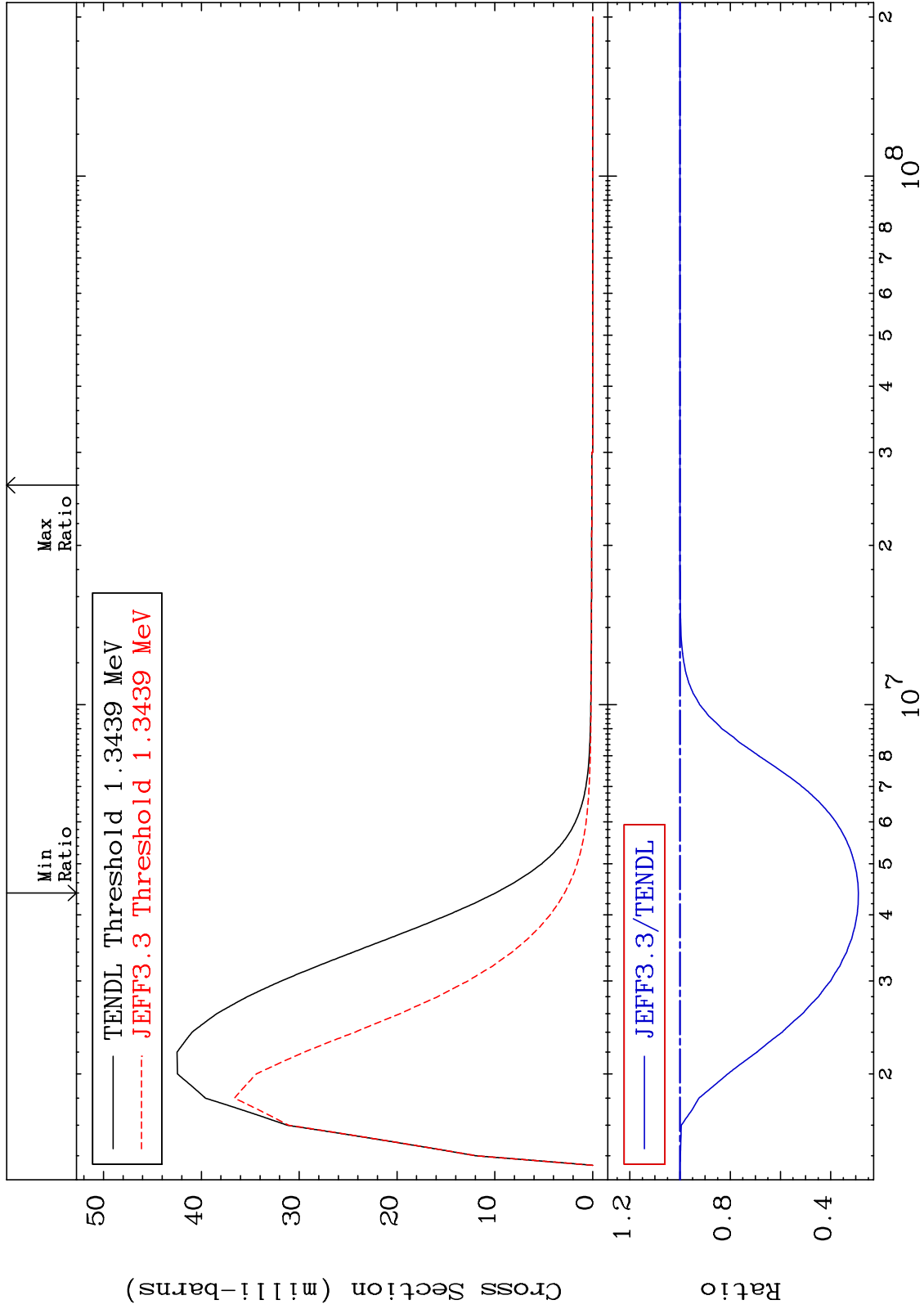
Incident Energy (eV)

35-Br-81

MAT 3531

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

35-Br-81
-71.03 To 0.000 %



41

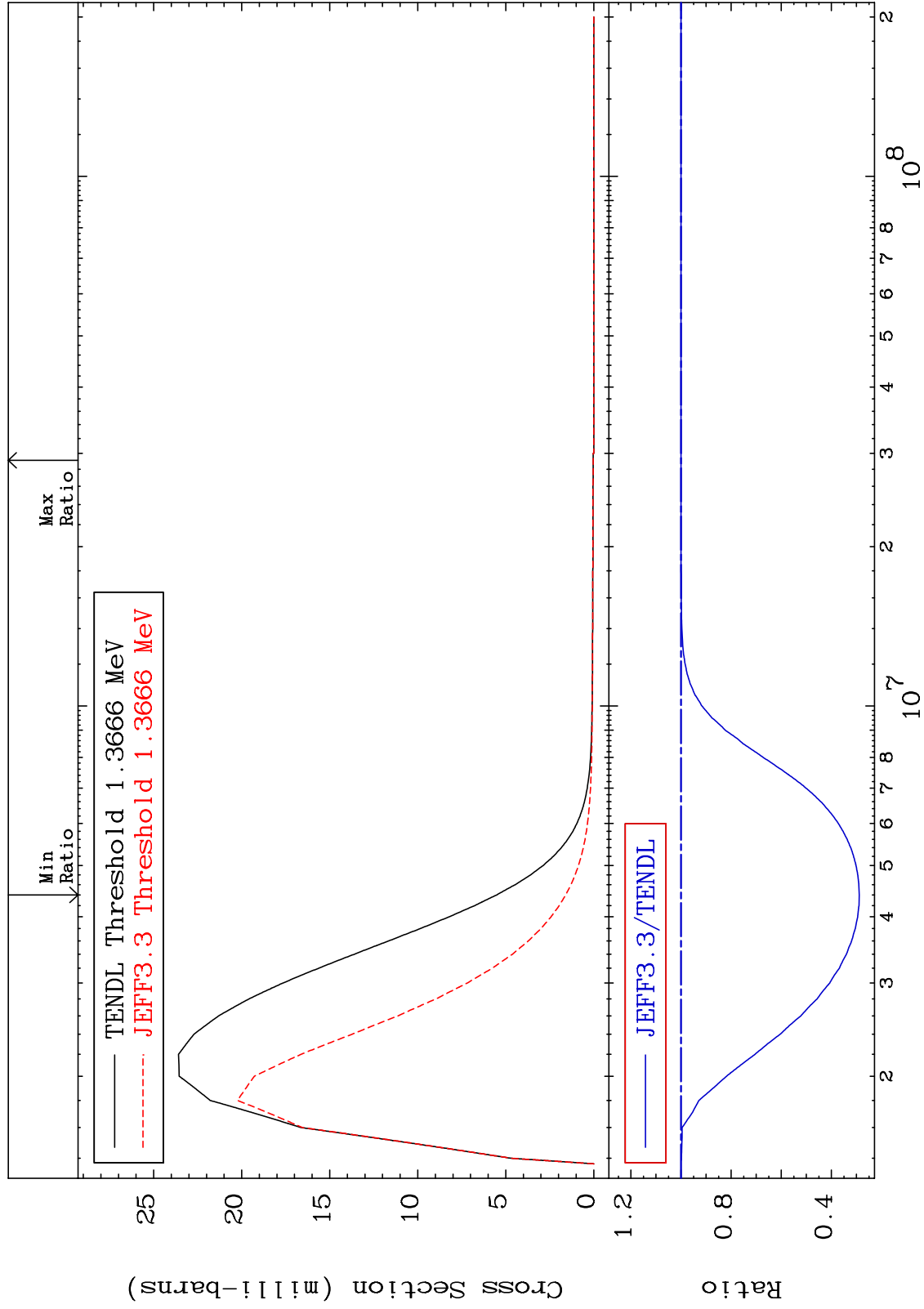
Incident Energy (eV)

35-Br-81

MAT 3531

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

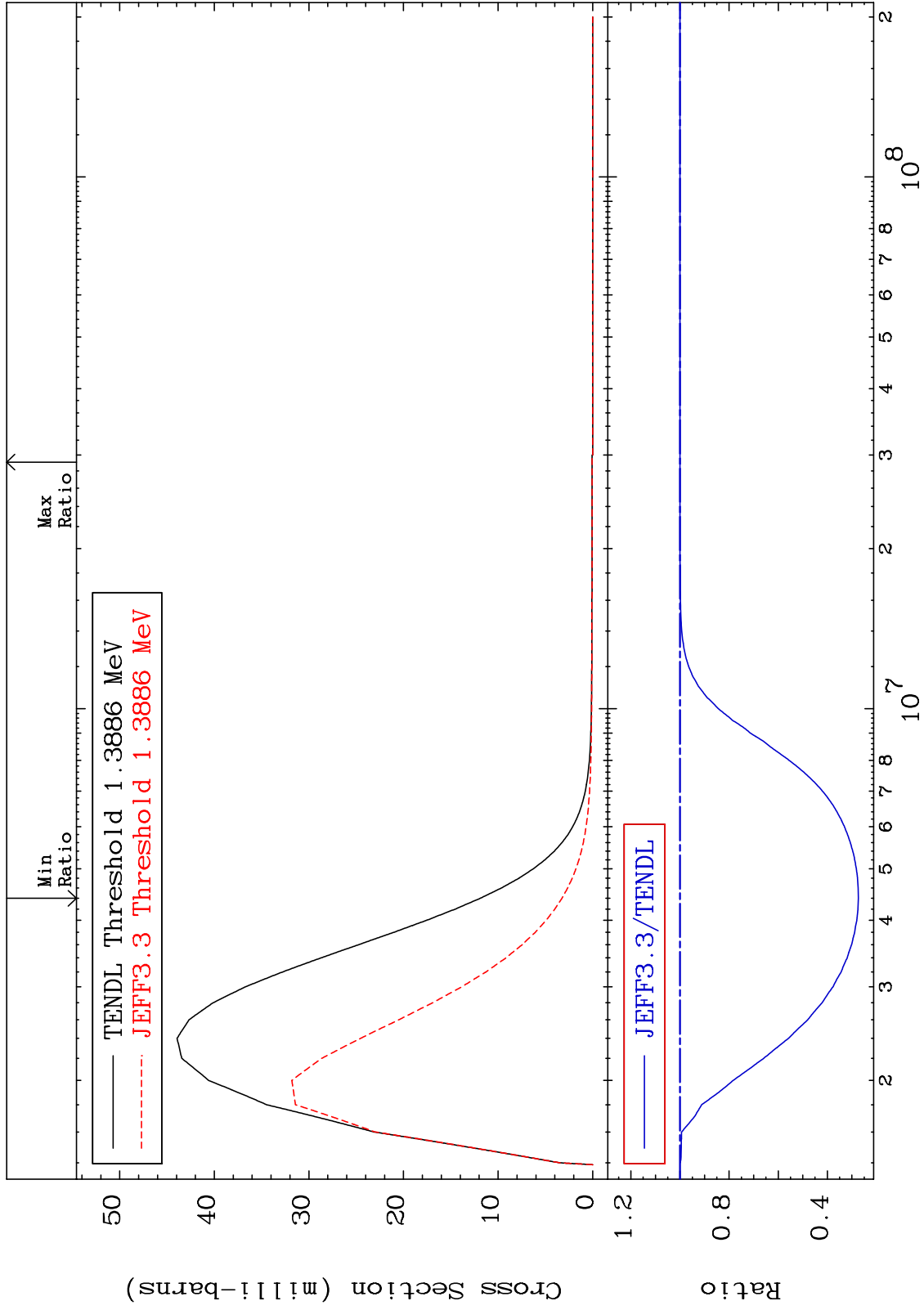
35-Br-81
-71.13 To 0.000 %



MAT 3531

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

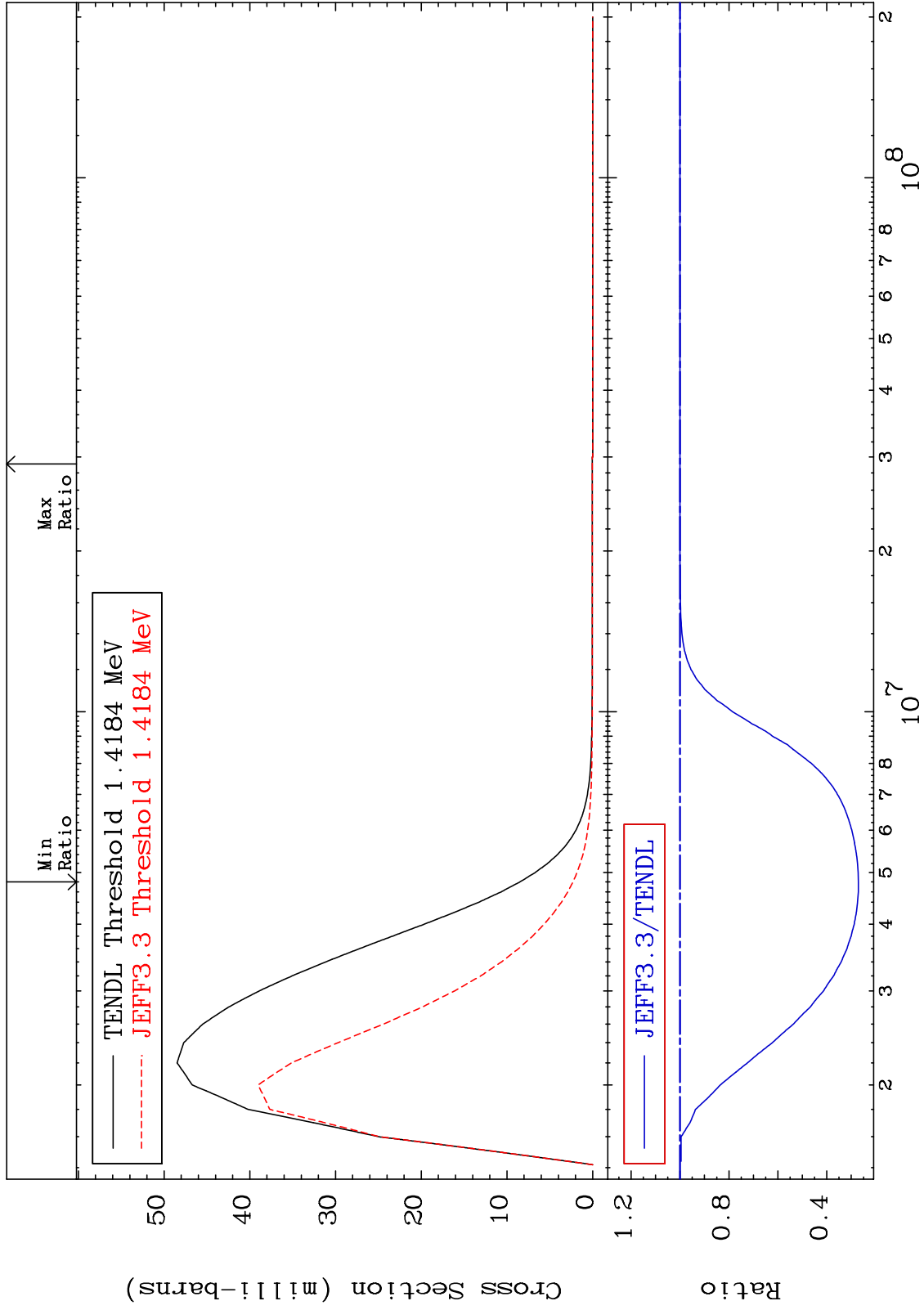
35-Br-81
-72.65 To 0.000 %



MAT 3531

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

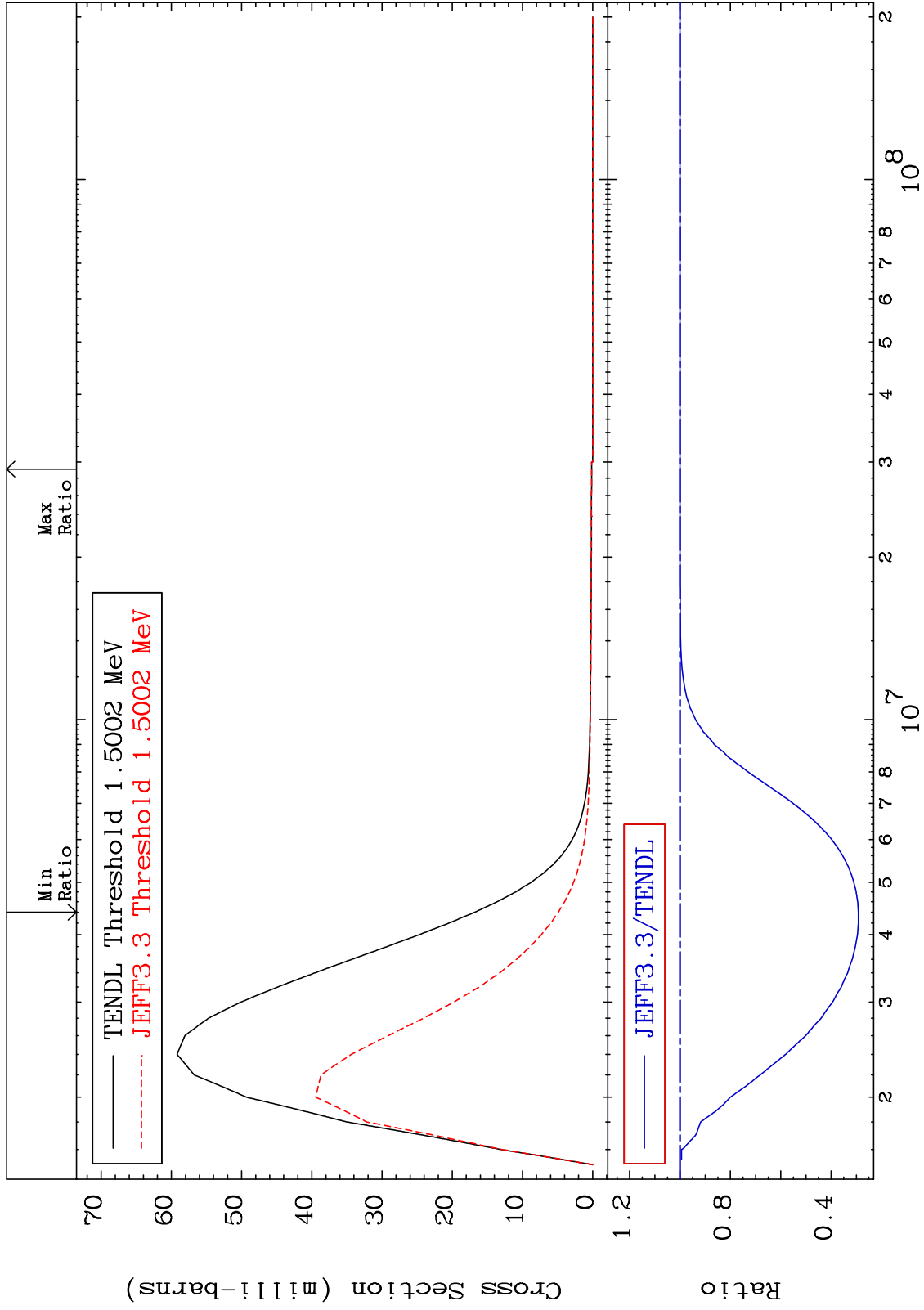
35-Br-81
-72.92 To 0.000 %



MAT 3531

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

35-Br-81
-70.82 To 0.000 %



45

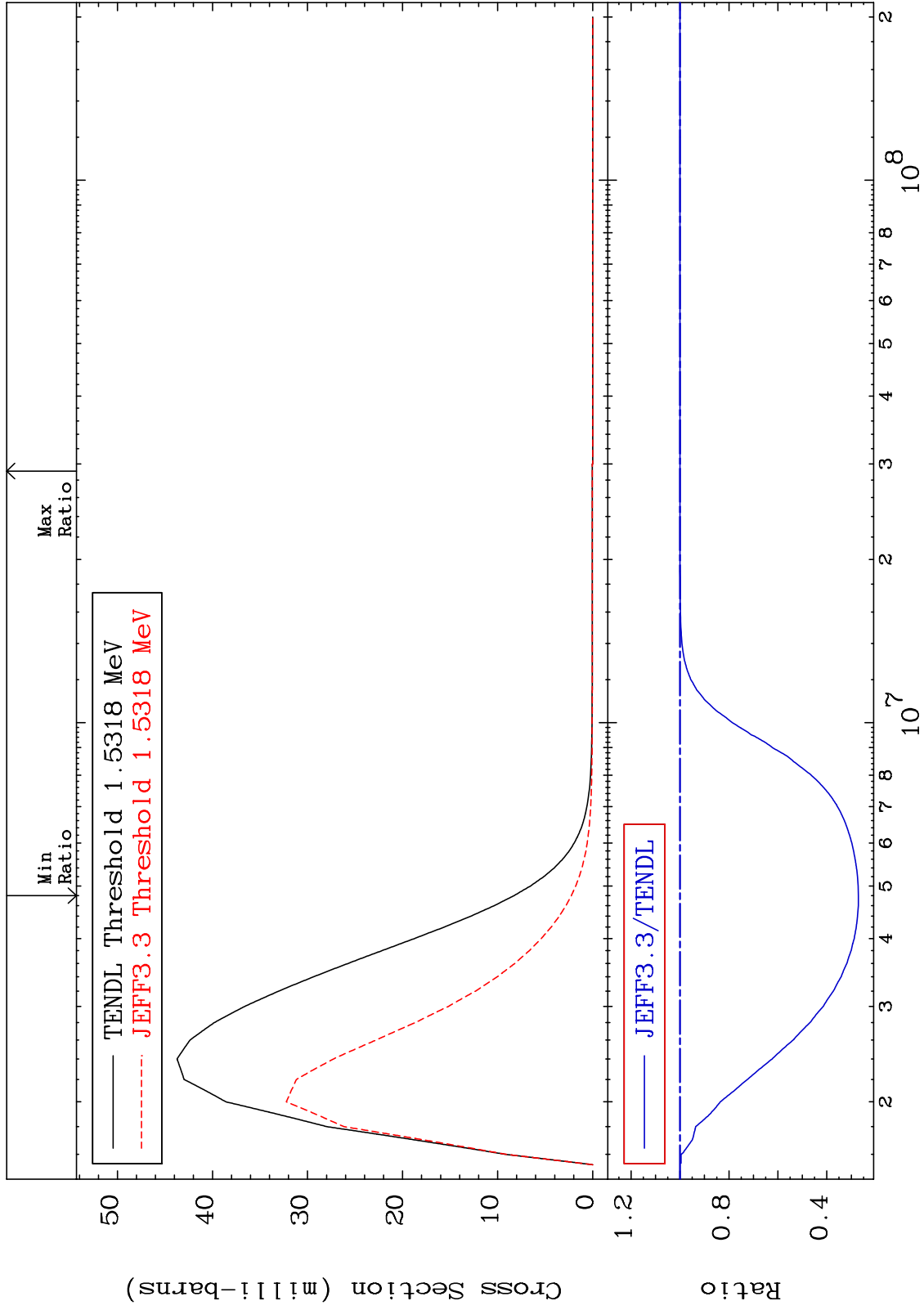
Incident Energy (eV)

35-Br-81

MAT 3531

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

35-Br-81
-72.91 To 0.000 %



46

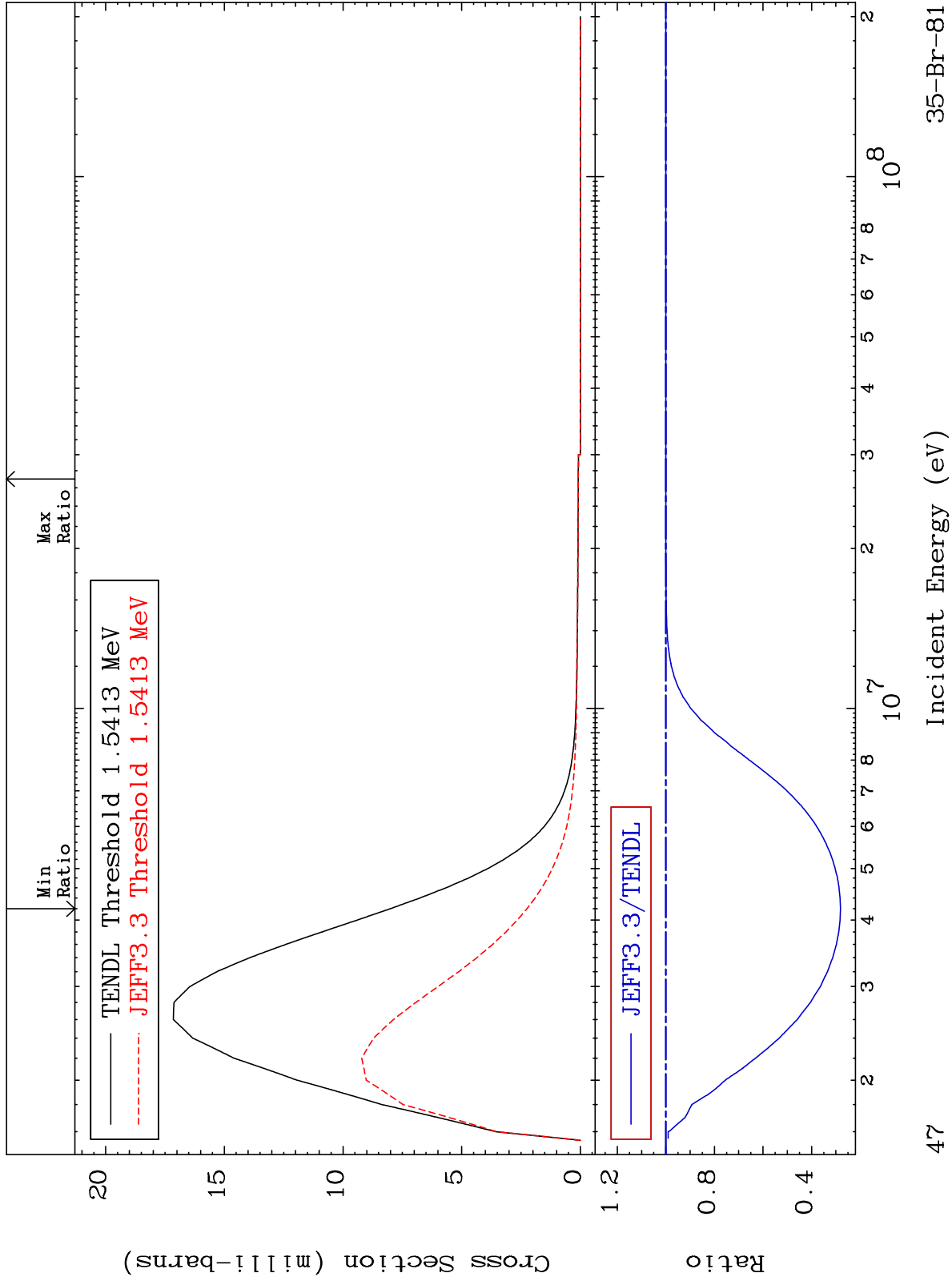
Incident Energy (eV)

35-Br-81

MAT 3531

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

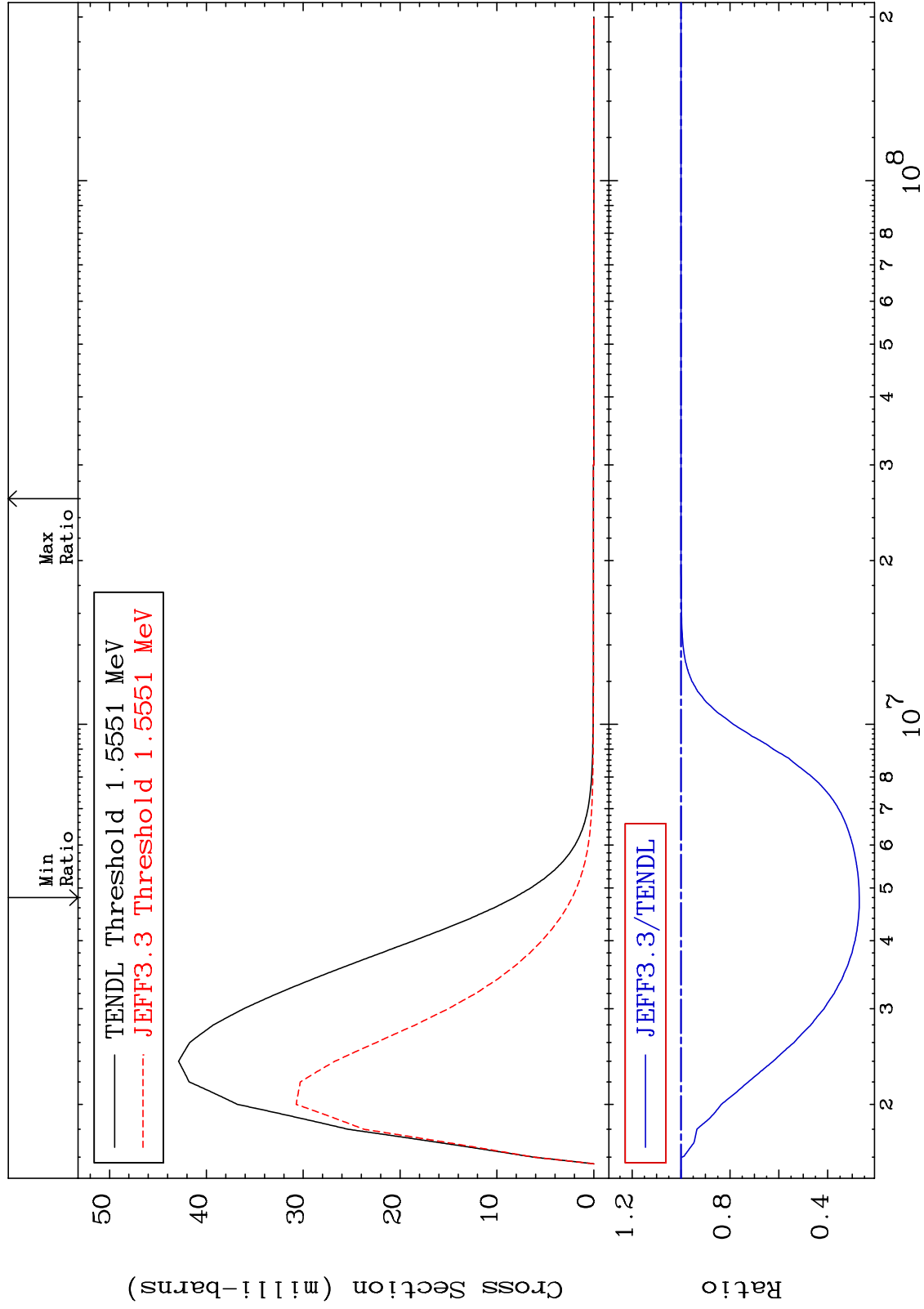
35-Br-81
-71.92 To 0.000 %



MAT 3531

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

35-Br-81
-72.91 To 0.000 %



48

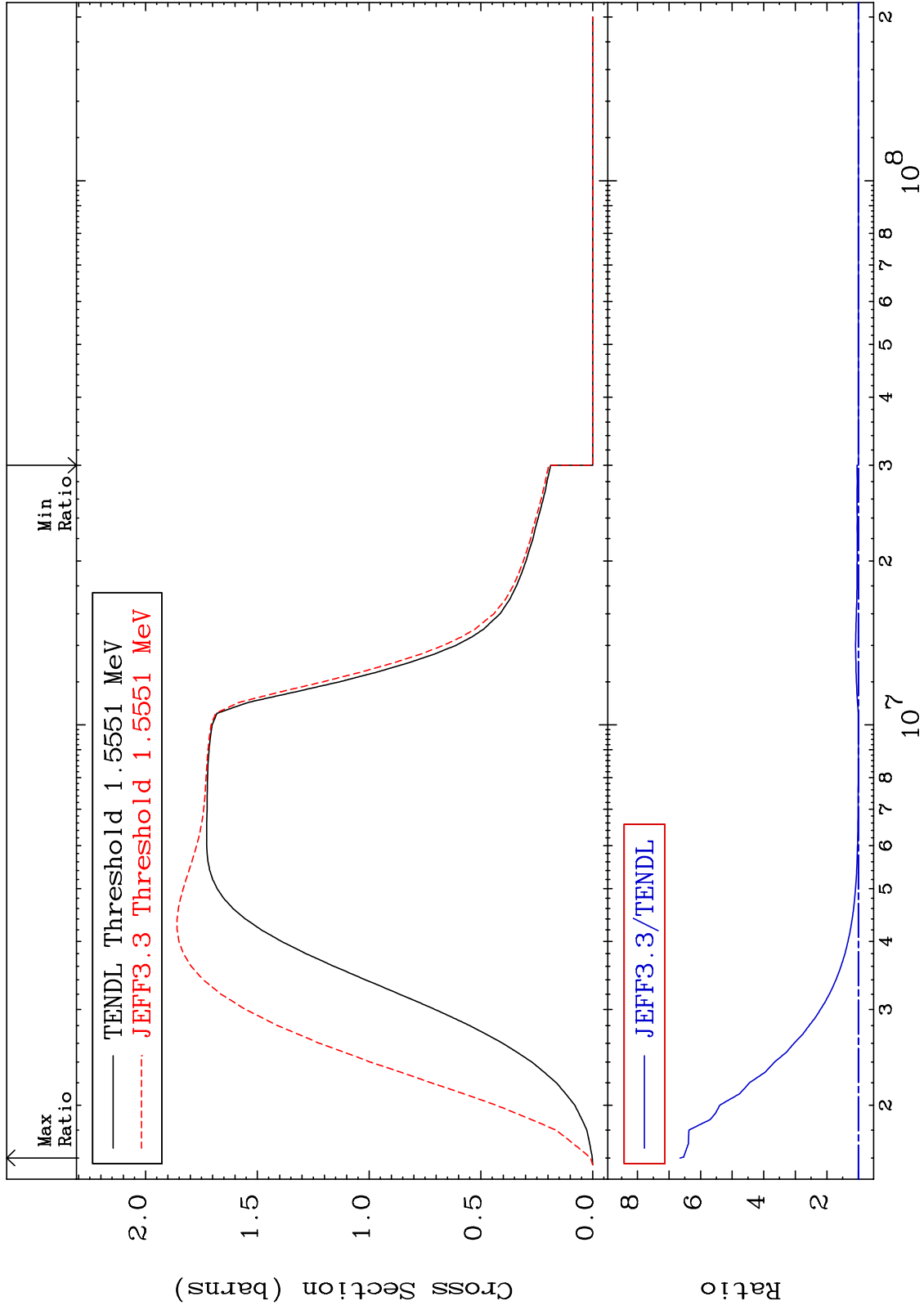
Incident Energy (eV)

35-Br-81

MAT 3531

(n, n') Continuum
Cross Section

35-Br-81
0.000 To 565.2 %



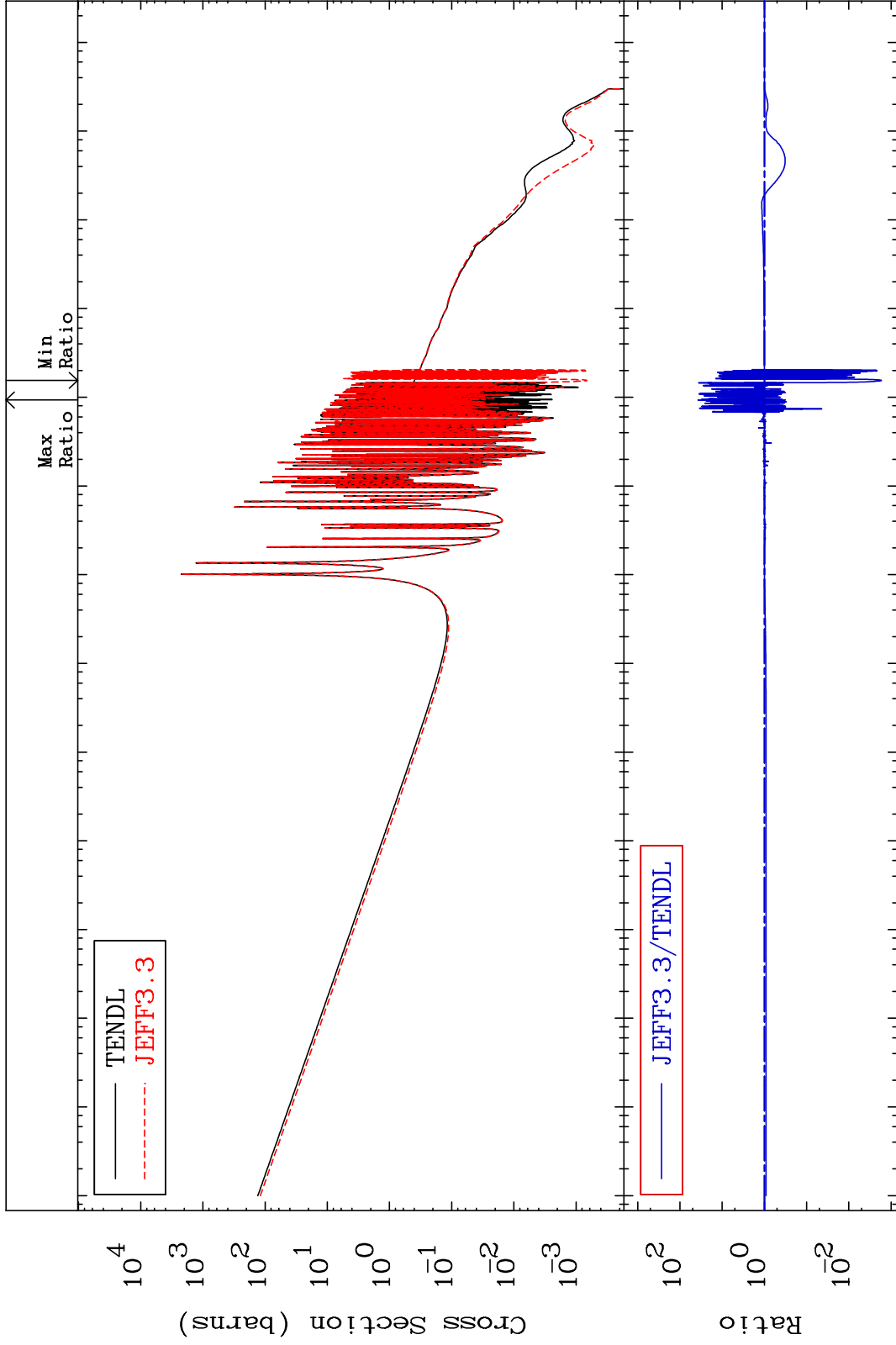
MAT 3531

(n, γ)

35-Br-81

Cross Section

-99.83 To 3599. %



50

Incident Energy (eV)

35-Br-81

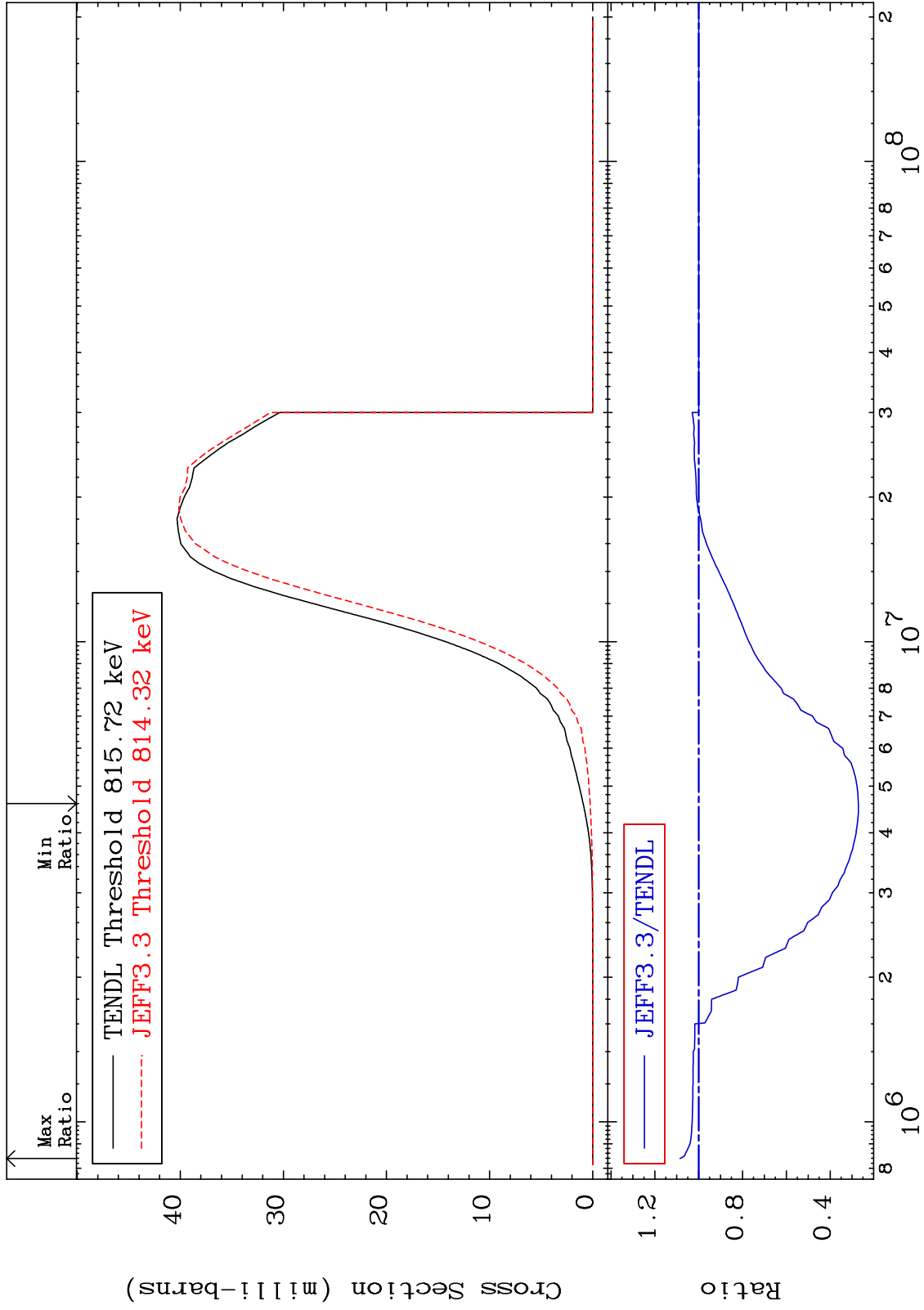
MAT 3531

(n,p)

³⁵Br-81

Cross Section

-72.90 To 8.503 %



51

Incident Energy (eV)

³⁵Br-81

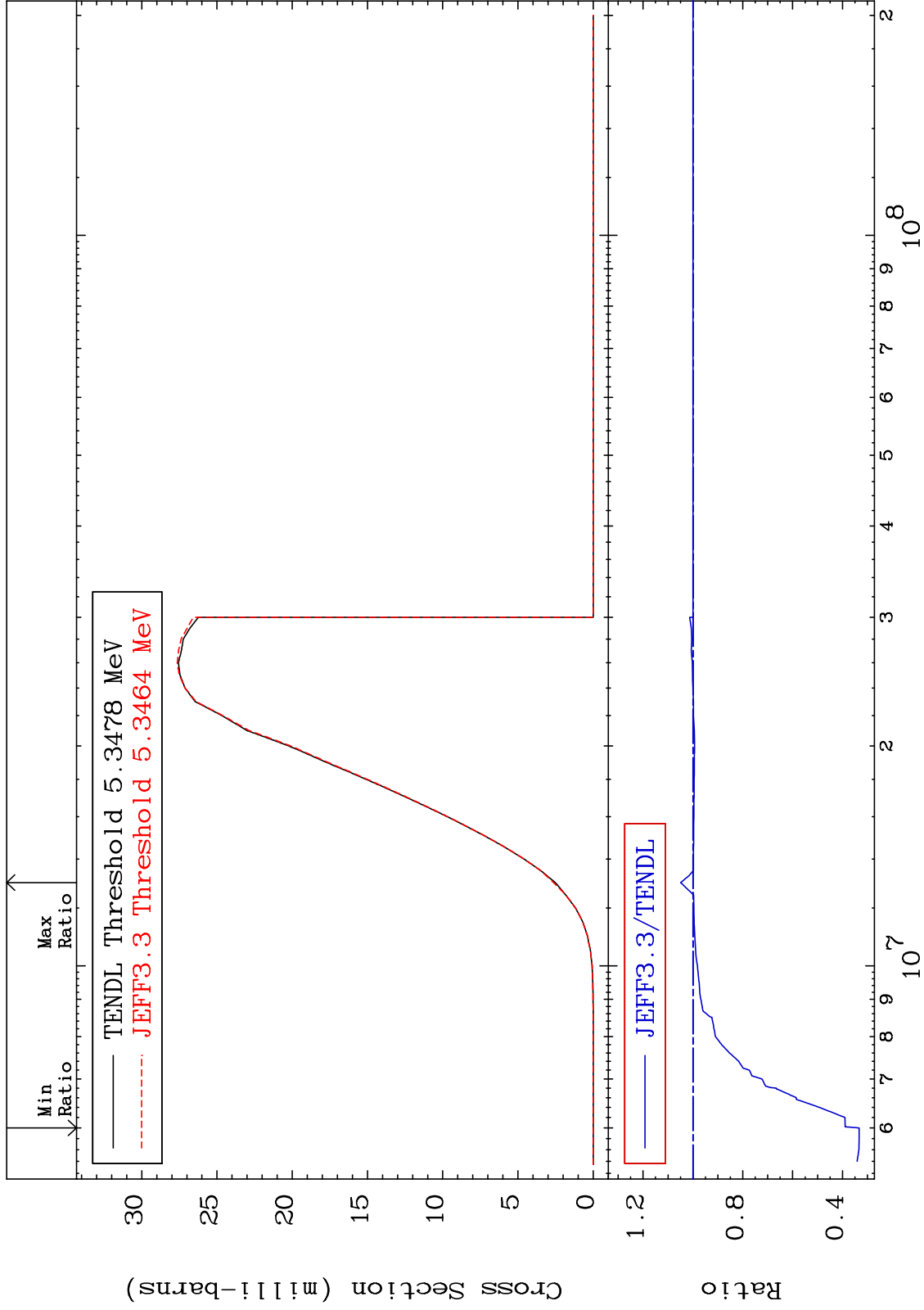
MAT 3531

(n, d)

35-Br-81

Cross Section

-66.68 To 4.941 %



52

Incident Energy (eV)

35-Br-81

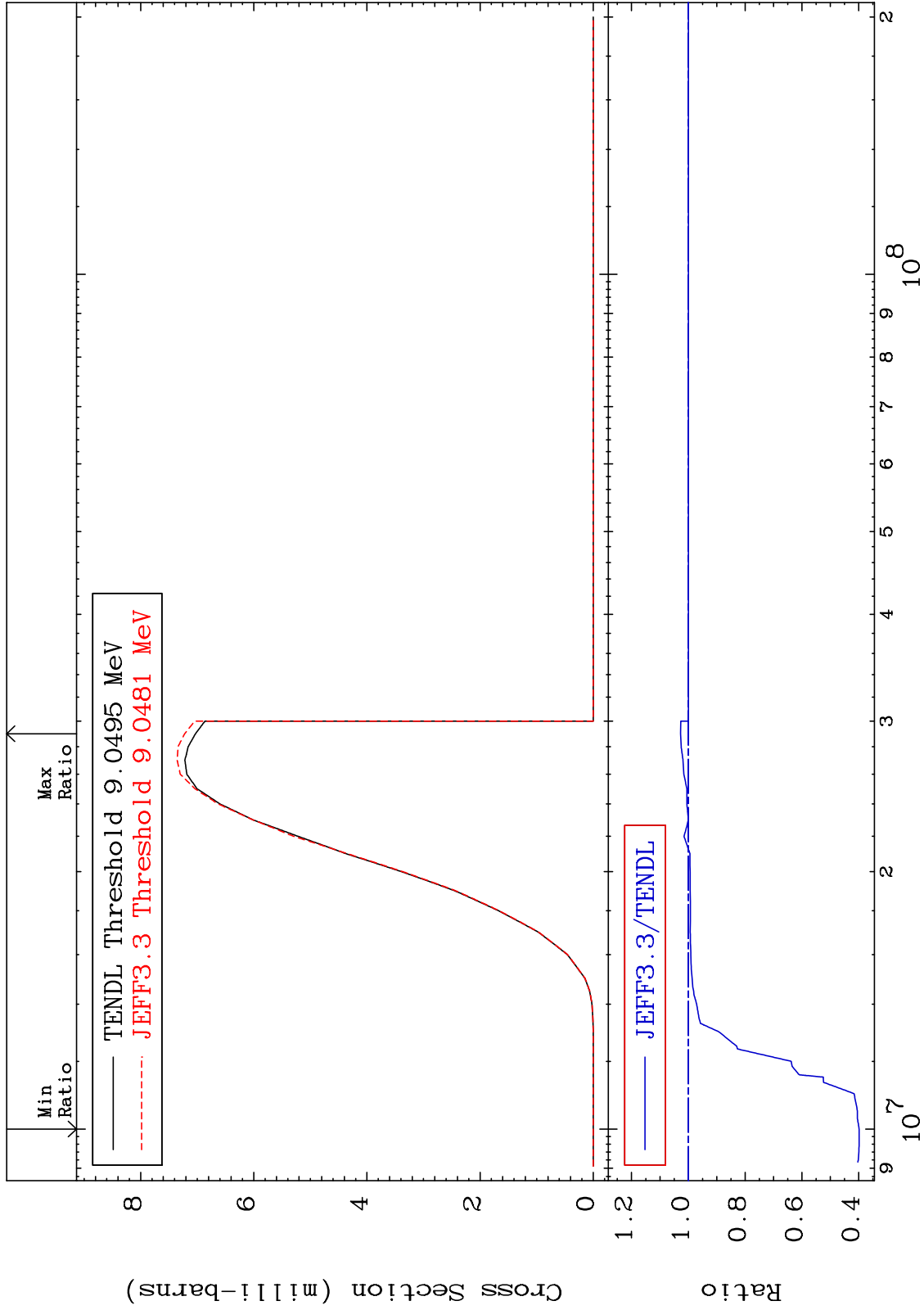
MAT 3531

(n, t)

35-Br-81

Cross Section

-60.16 To 2.714 %



53

Incident Energy (eV)

35-Br-81

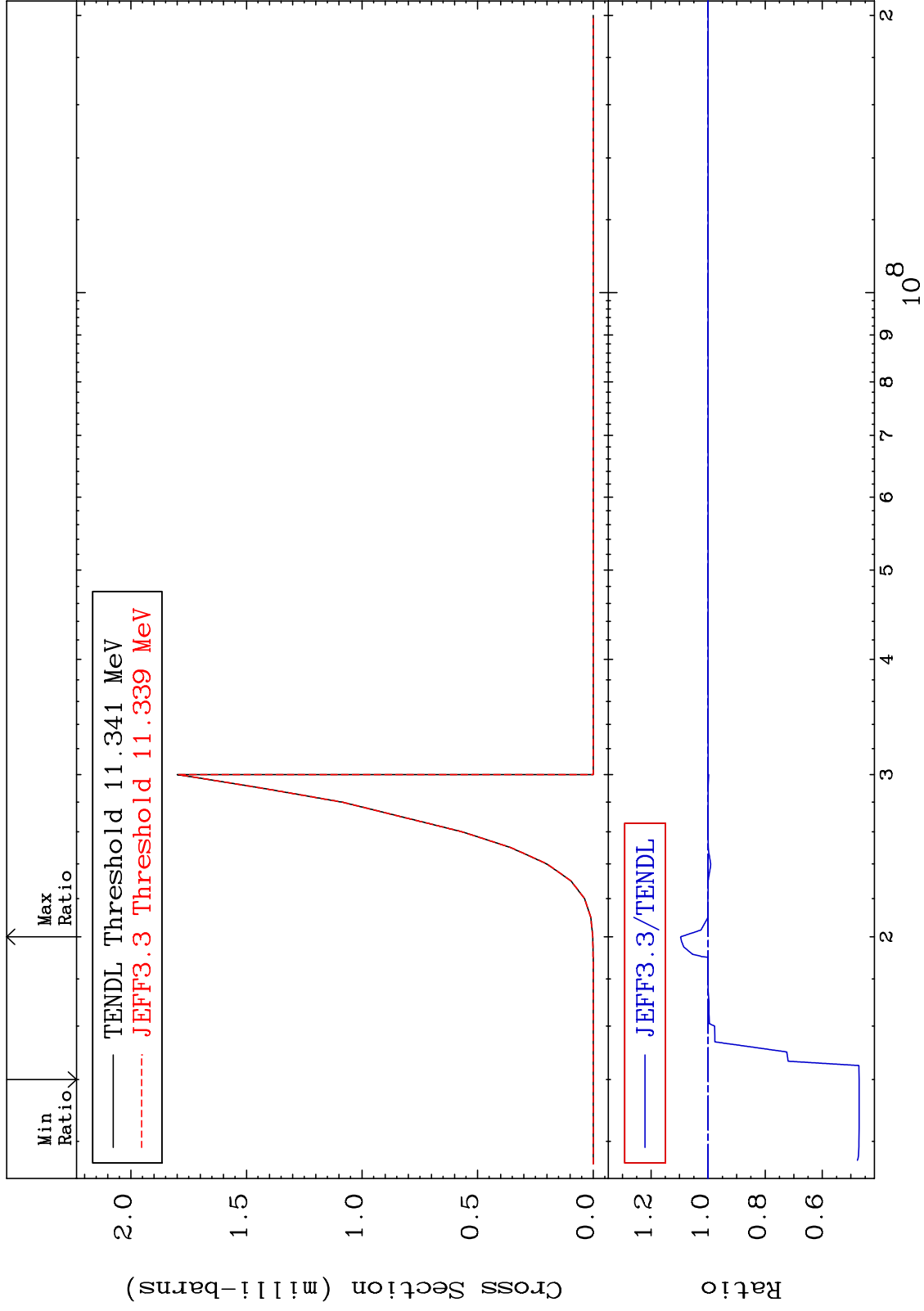
MAT 3531

(n, He-3)

35-Br-81

Cross Section

-52.91 To 9.629 %

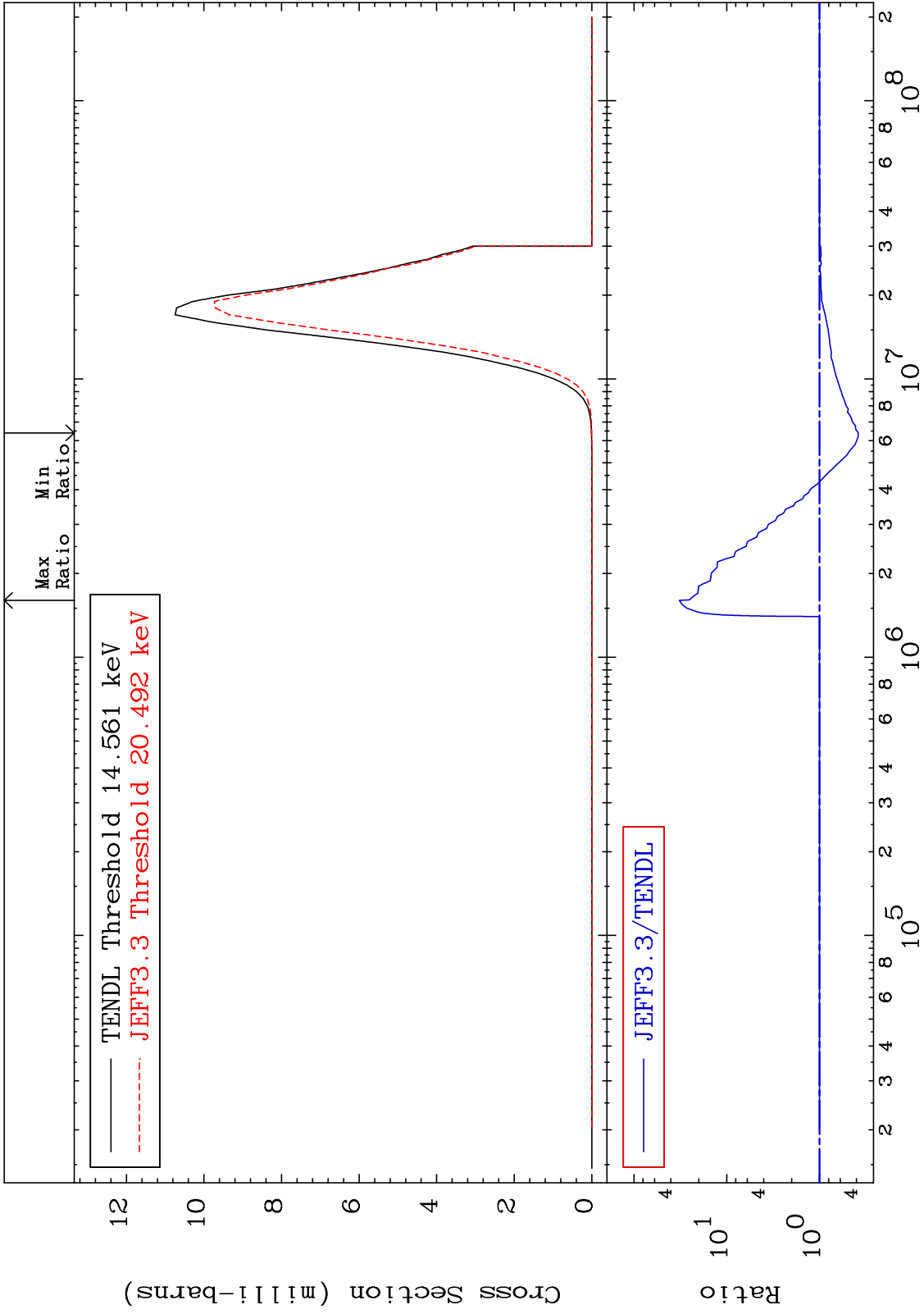


MAT 3531

35-Br-81

-61.68 To 3139. %

(n, α)
Cross Section



55

35-Br-81

35-Br-81

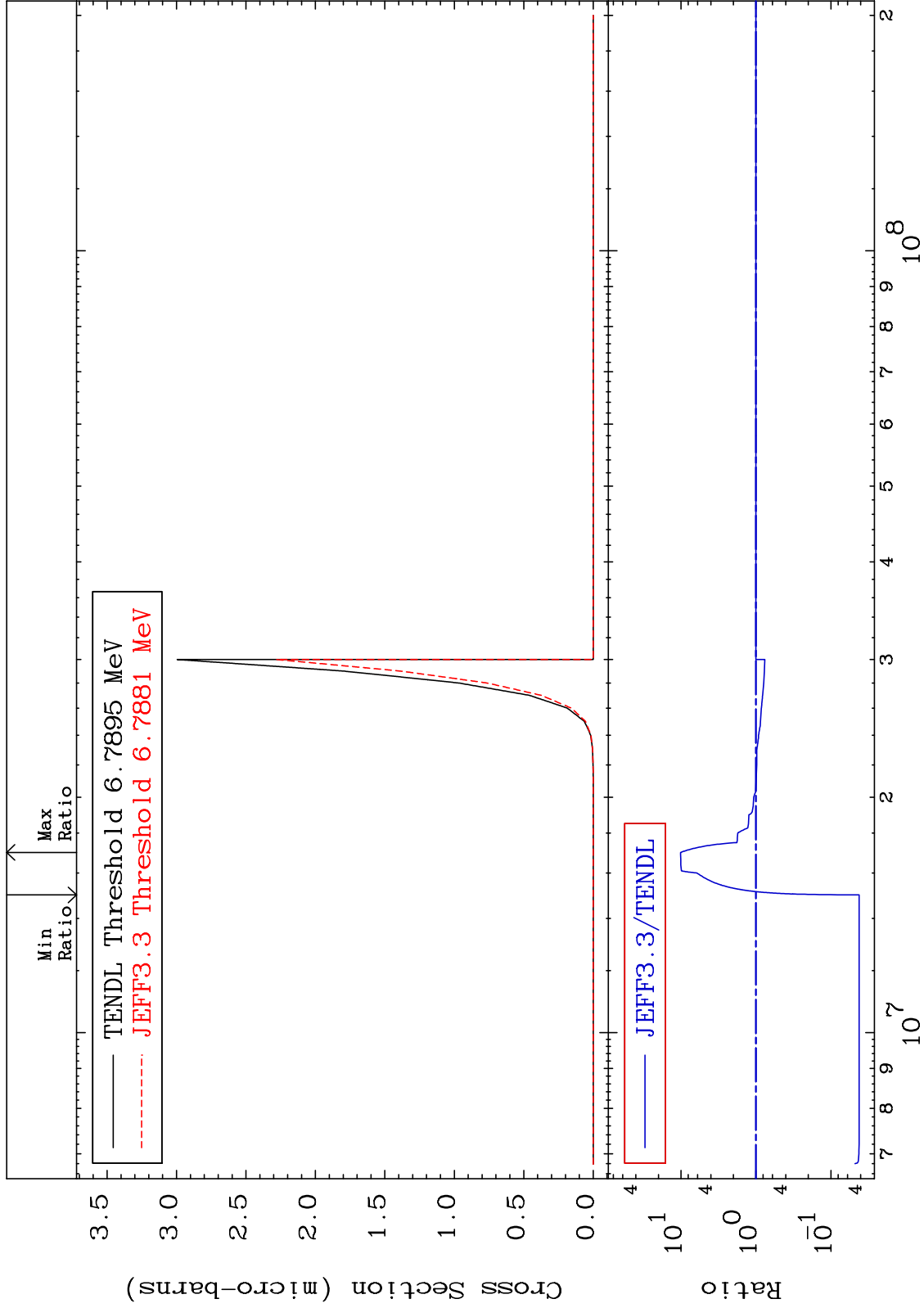
MAT 3531

(n, 2α)

35-Br-81

Cross Section

-95.81 To 910.6 %



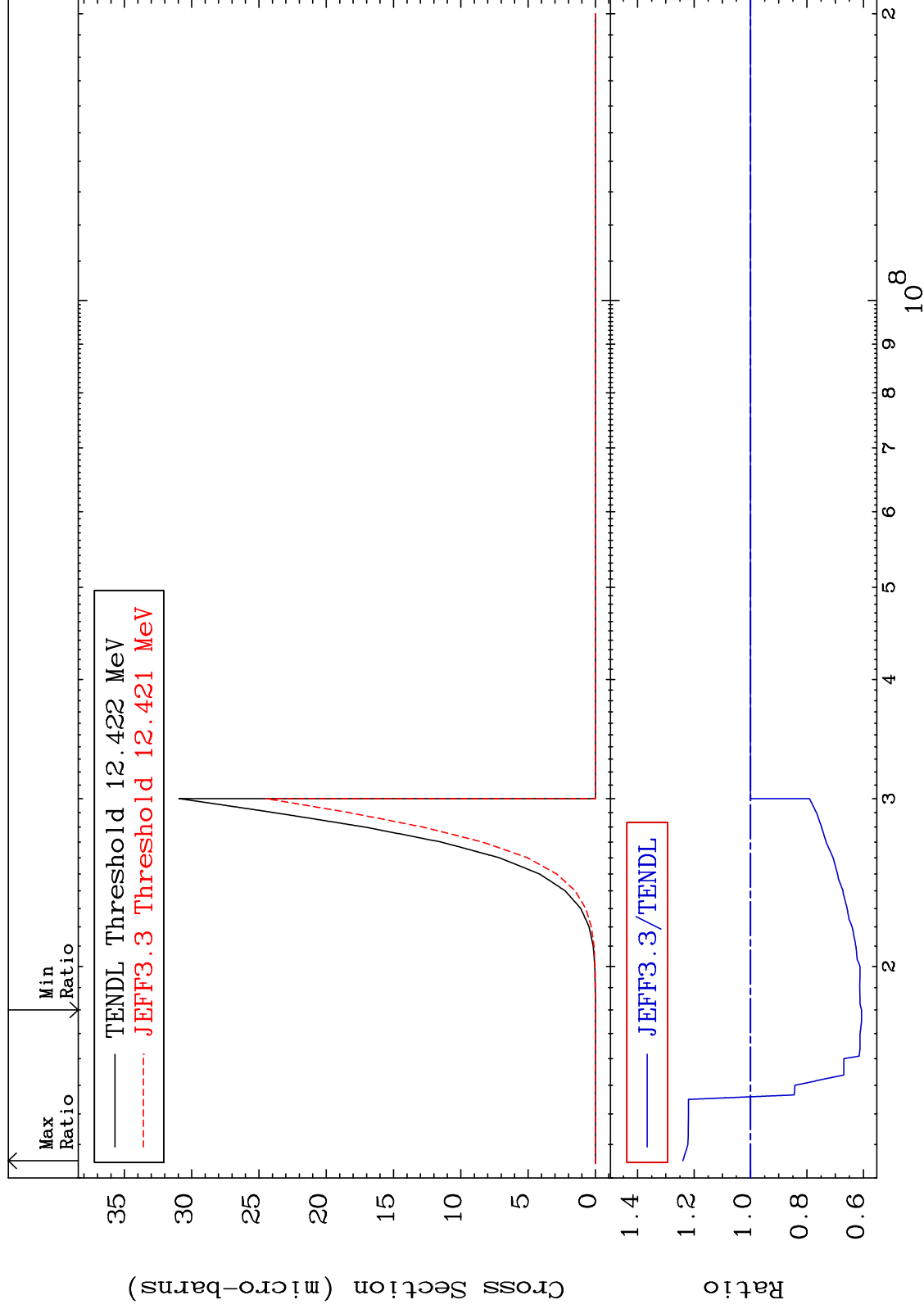
56

Incident Energy (eV)

35-Br-81

Cross Section

-39.33 To 23.96 %



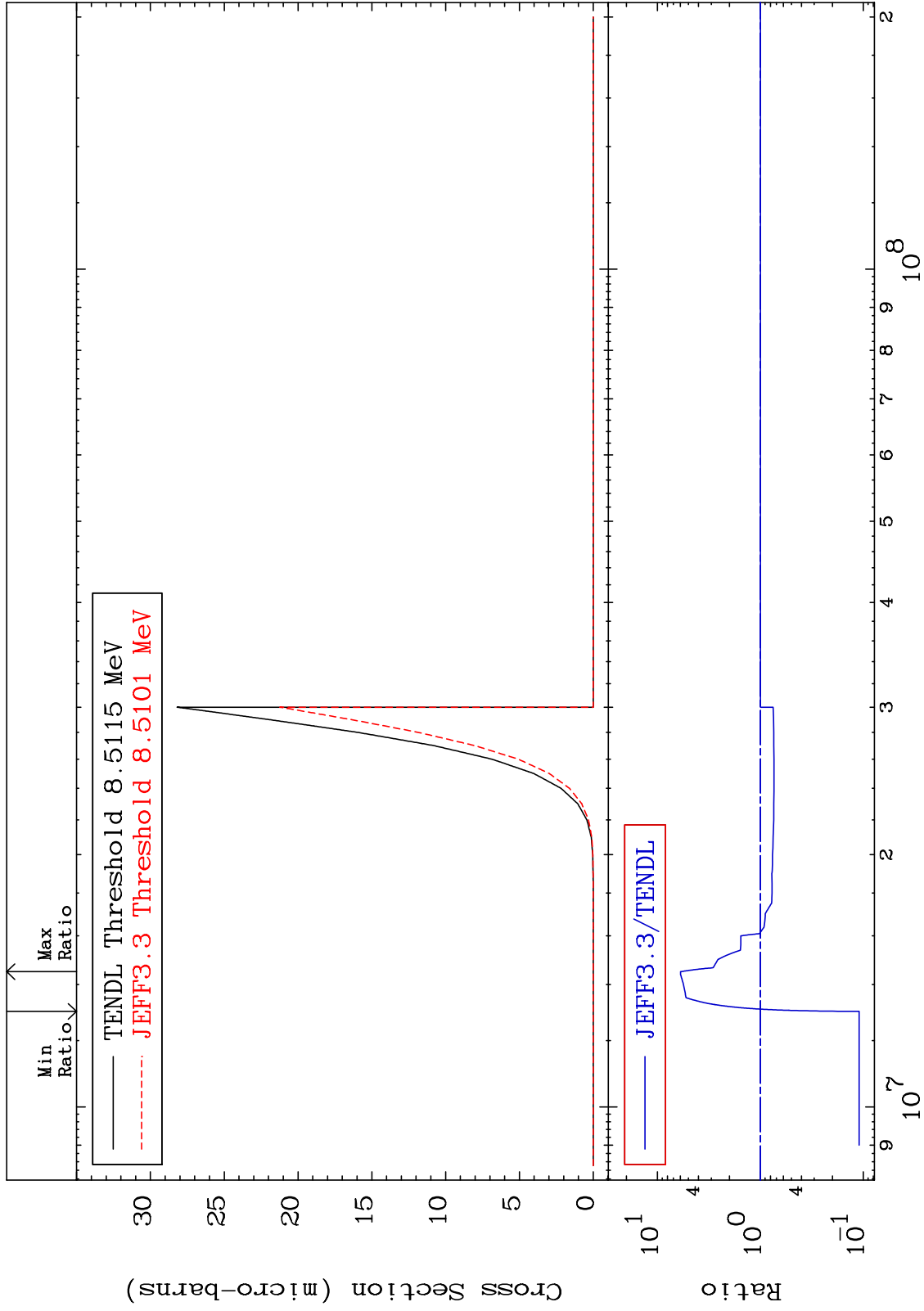
MAT 3531

(n,p) α

35-Br-81

Cross Section

-89.01 To 496.0 %



58

Incident Energy (eV)

35-Br-81

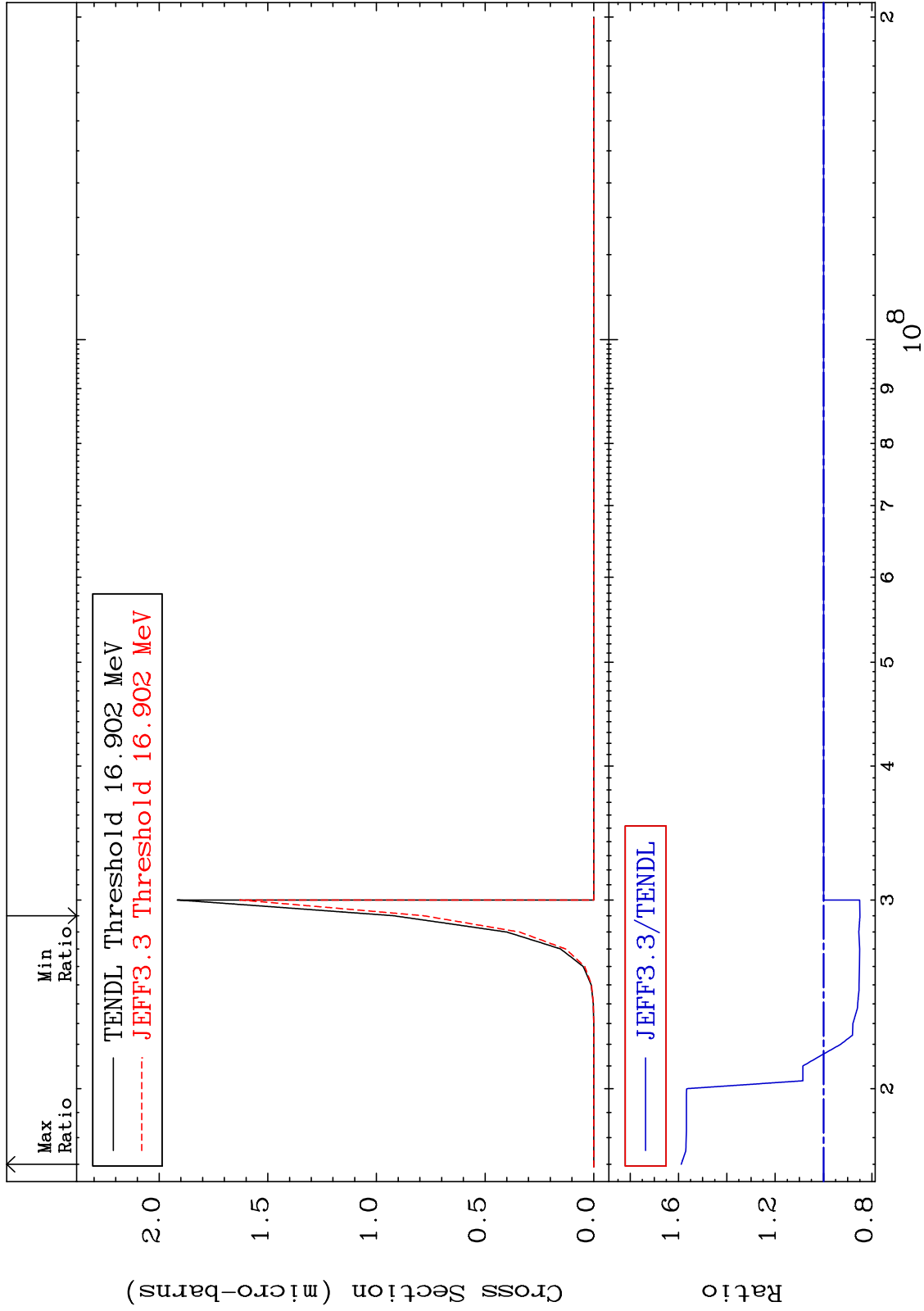
MAT 3531

(n,p) d

³⁵Br-81

Cross Section

-15.06 To 58.87 %



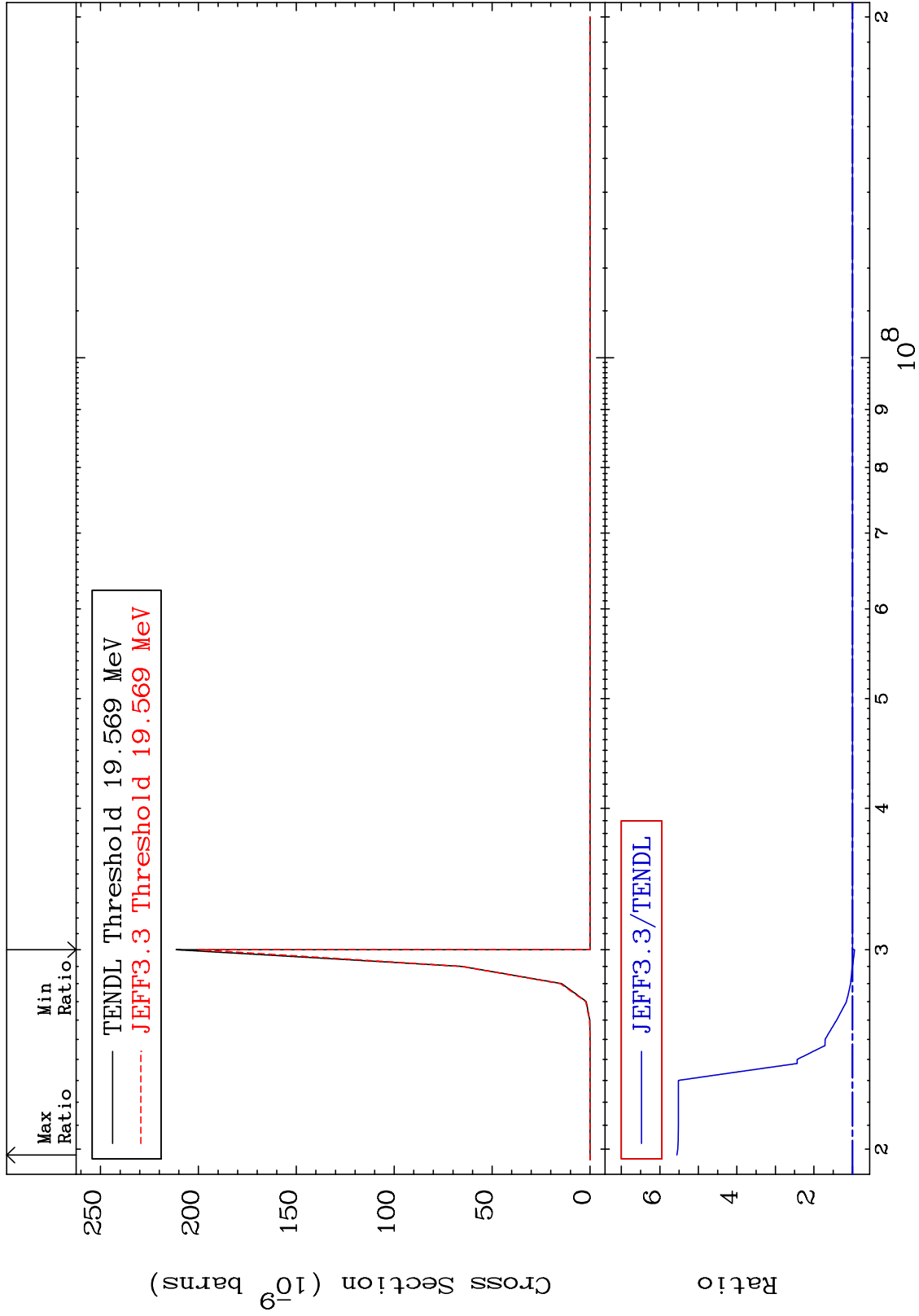
MAT 3531

(n,p) t

35-Br-81

Cross Section

-5.438 To 455.6 %



60

Incident Energy (eV)

35-Br-81

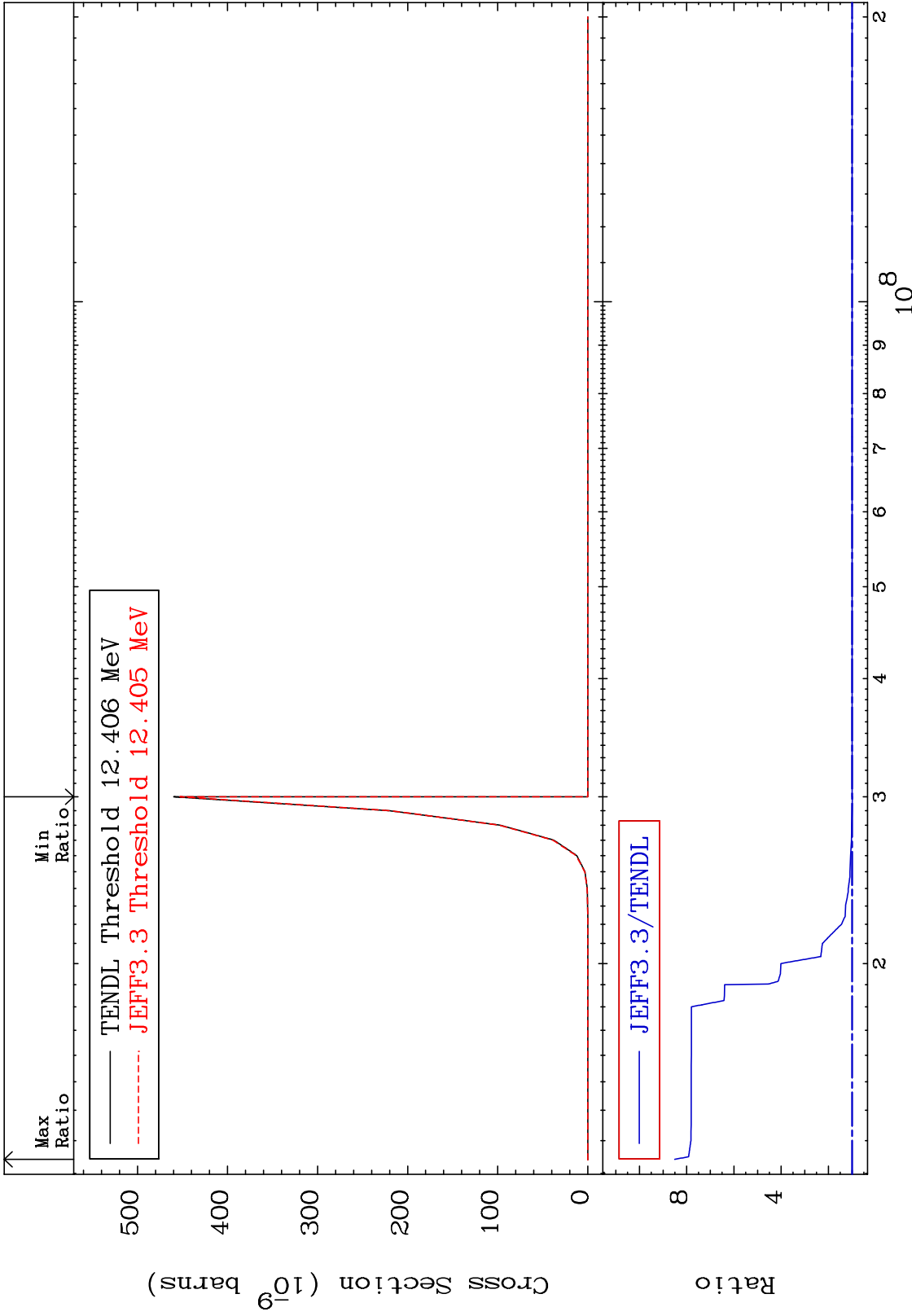
MAT 3531

(n,d) α

35-Br-81

Cross Section

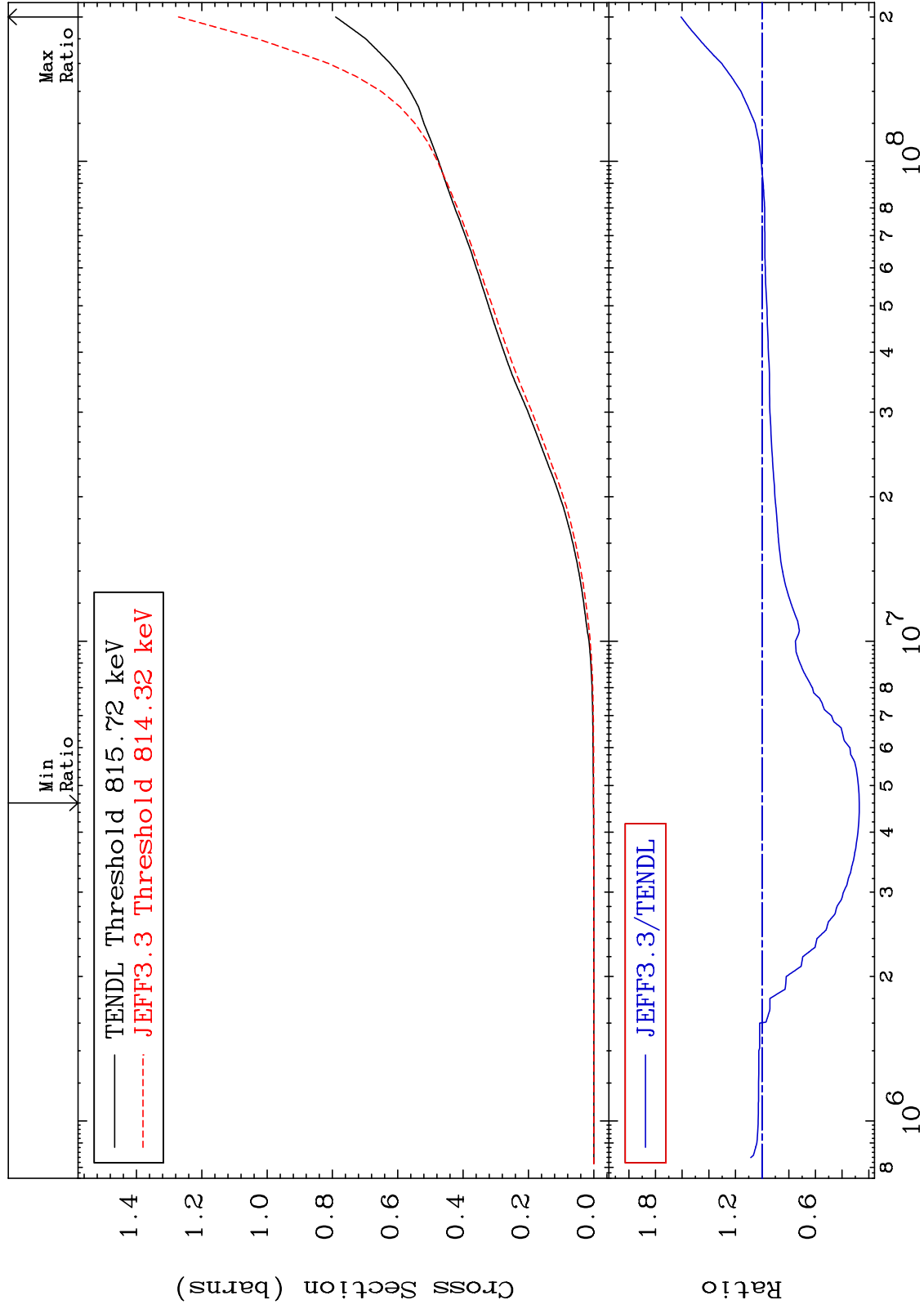
-1.539 To 750.6 %



MAT 3531

Hydrogen Production
Cross Section

35-Br-81
-72.90 To 60.81 %



62

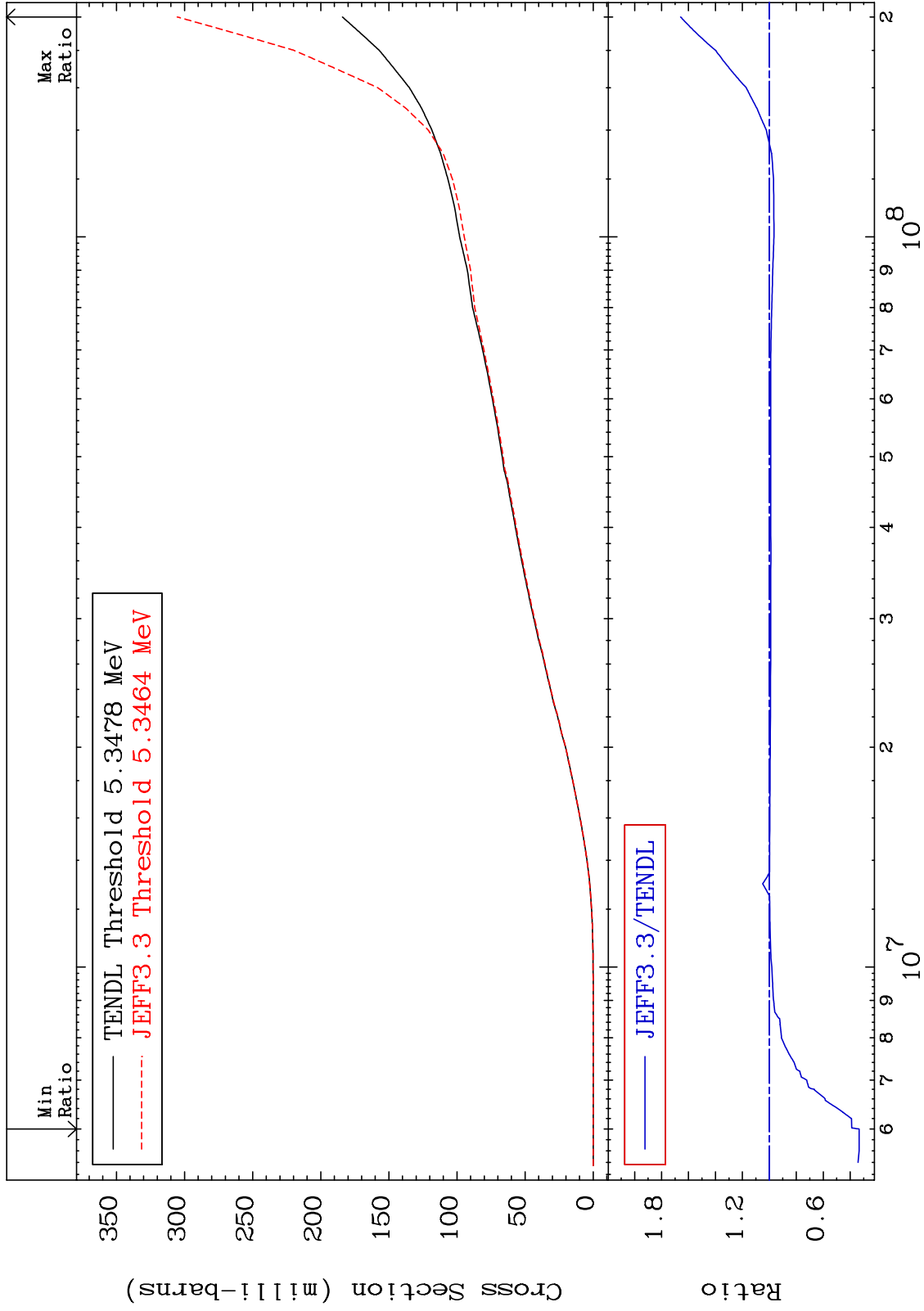
Incident Energy (eV)

35-Br-81

MAT 3531

Deuterium Production
Cross Section

35-Br-81
-66.68 To 65.84 %



63

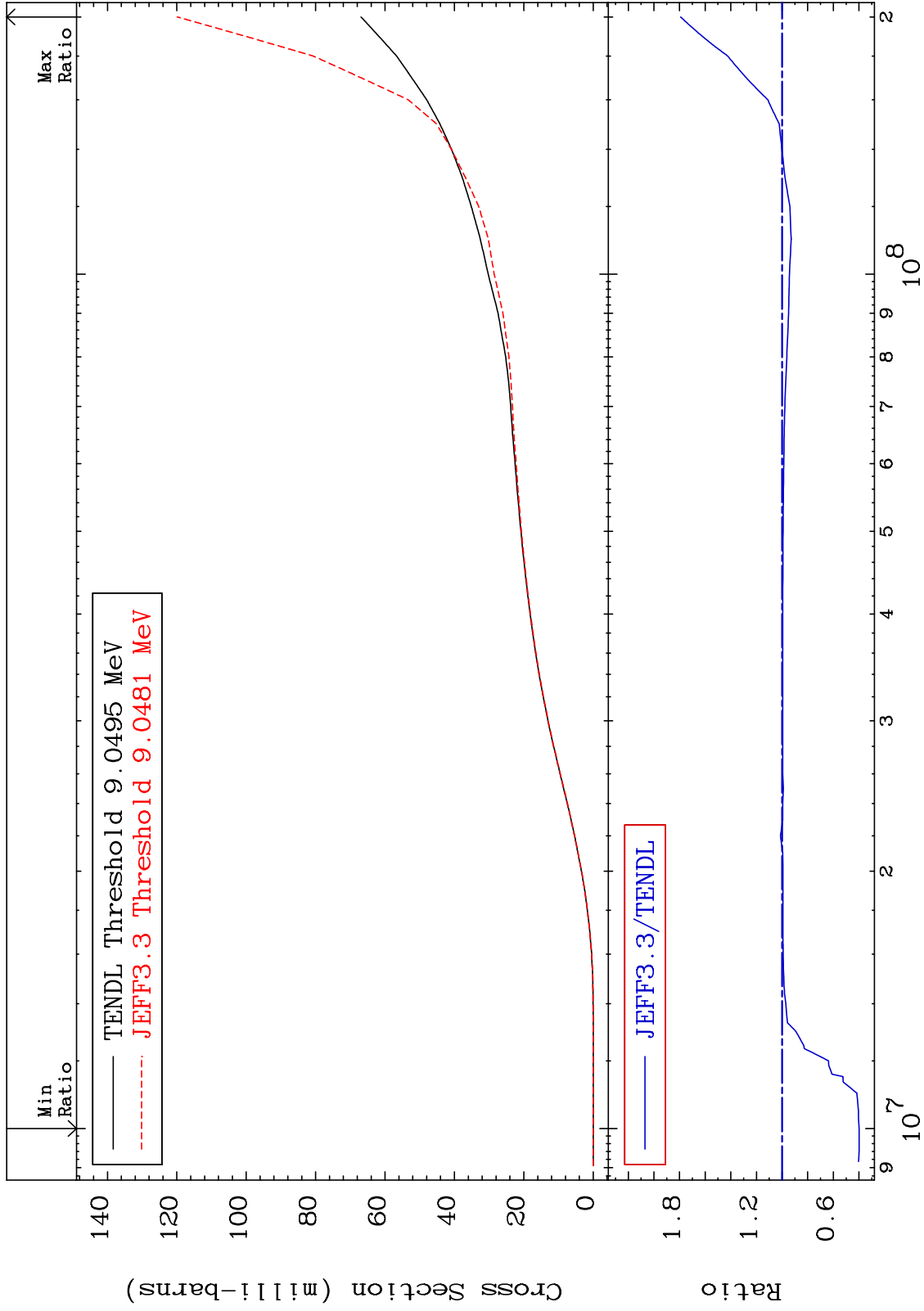
Incident Energy (eV)

35-Br-81

MAT 3531

Tritium Production
Cross Section

35-Br-81
-60.16 To 79.16 %



64

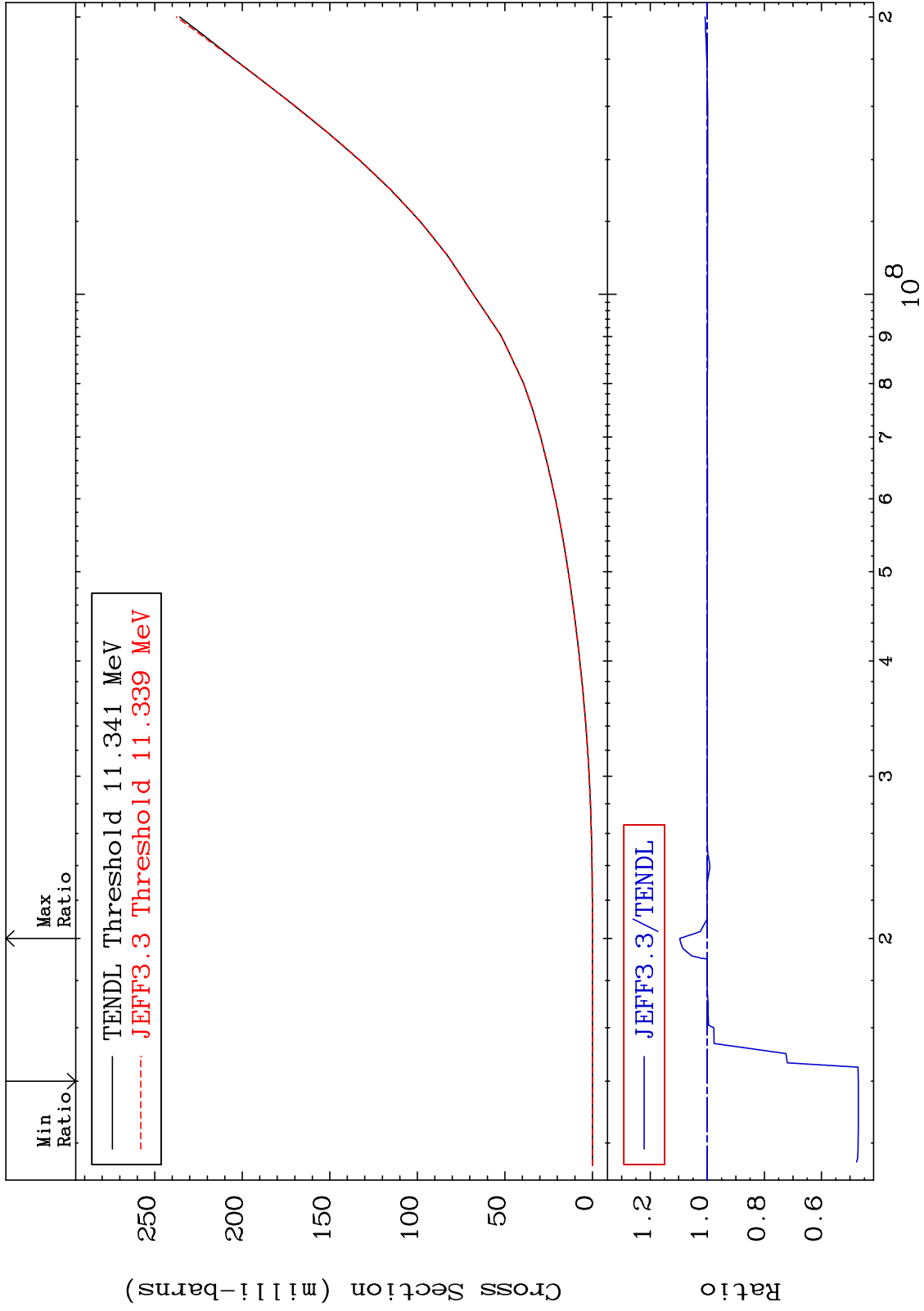
Incident Energy (eV)

35-Br-81

MAT 3531

He-3 Production
Cross Section

35-Br-81
-52.91 To 9.629 %



65

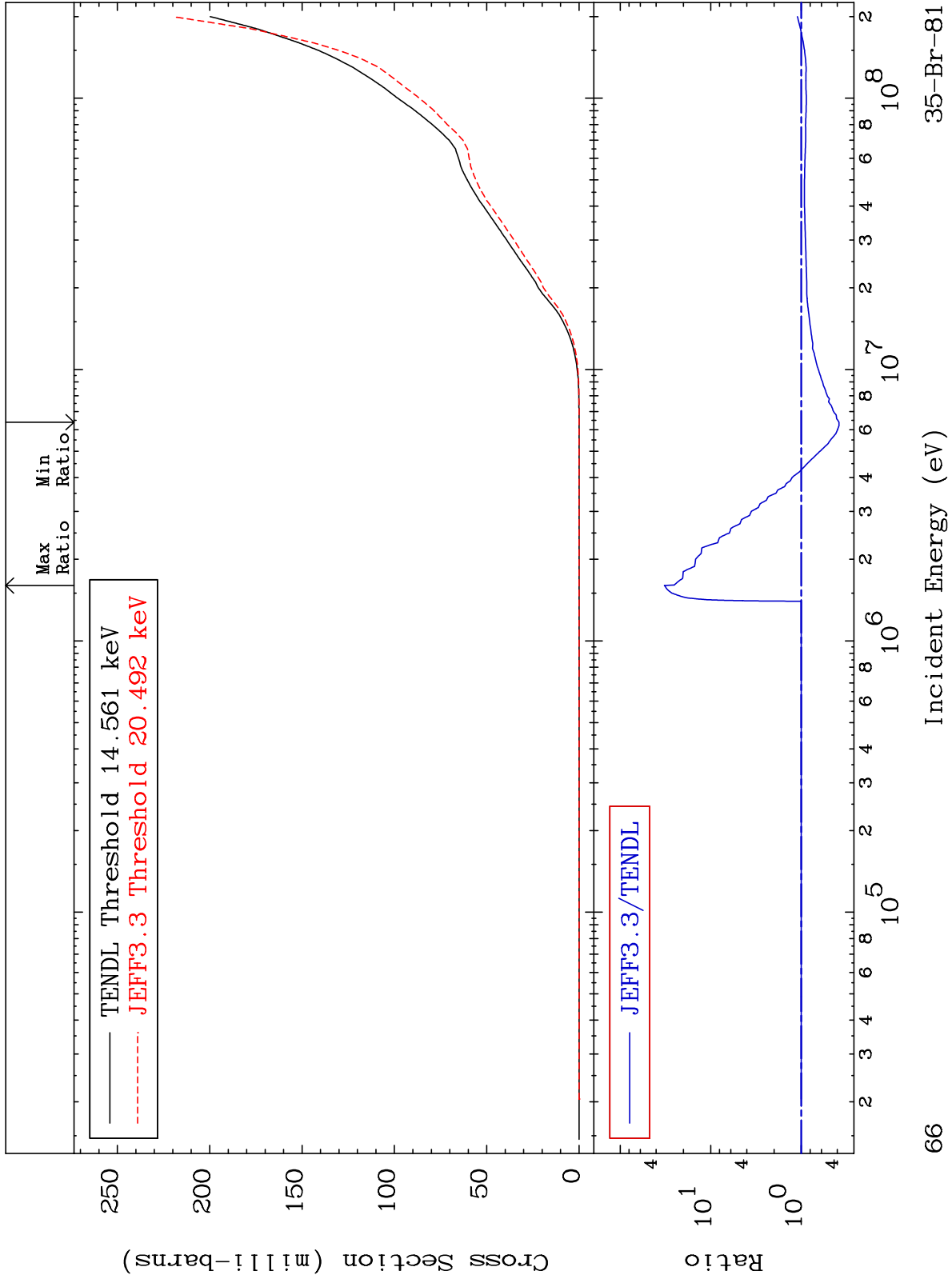
Incident Energy (eV)

35-Br-81

MAT 3531

He-4 Production
Cross Section

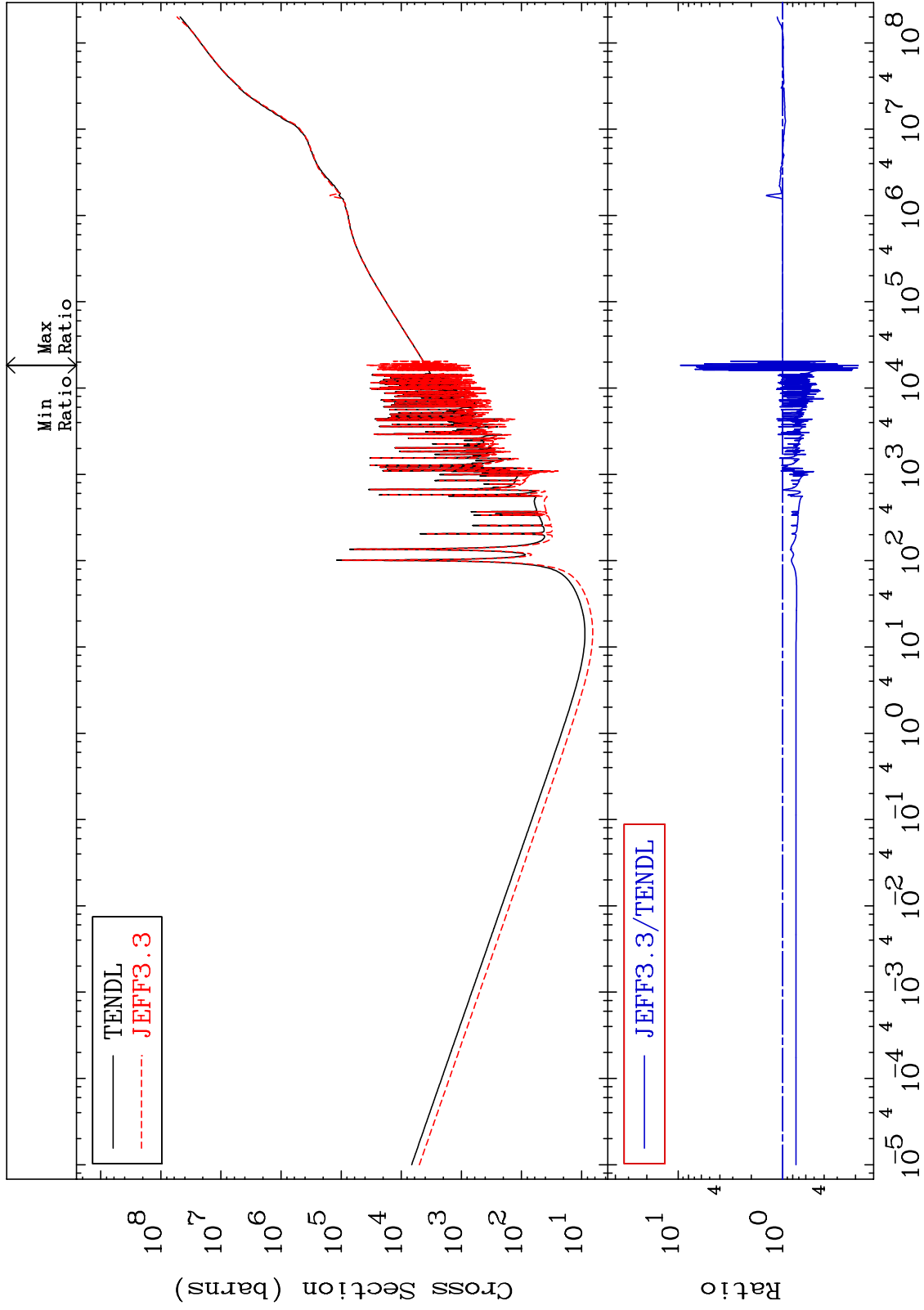
35-Br-81
-61.68 To 3139. %



MAT 3531

Kerma total (eV-barns)
Cross Section

35-Br-81
-81.24 To 861.9 %



67

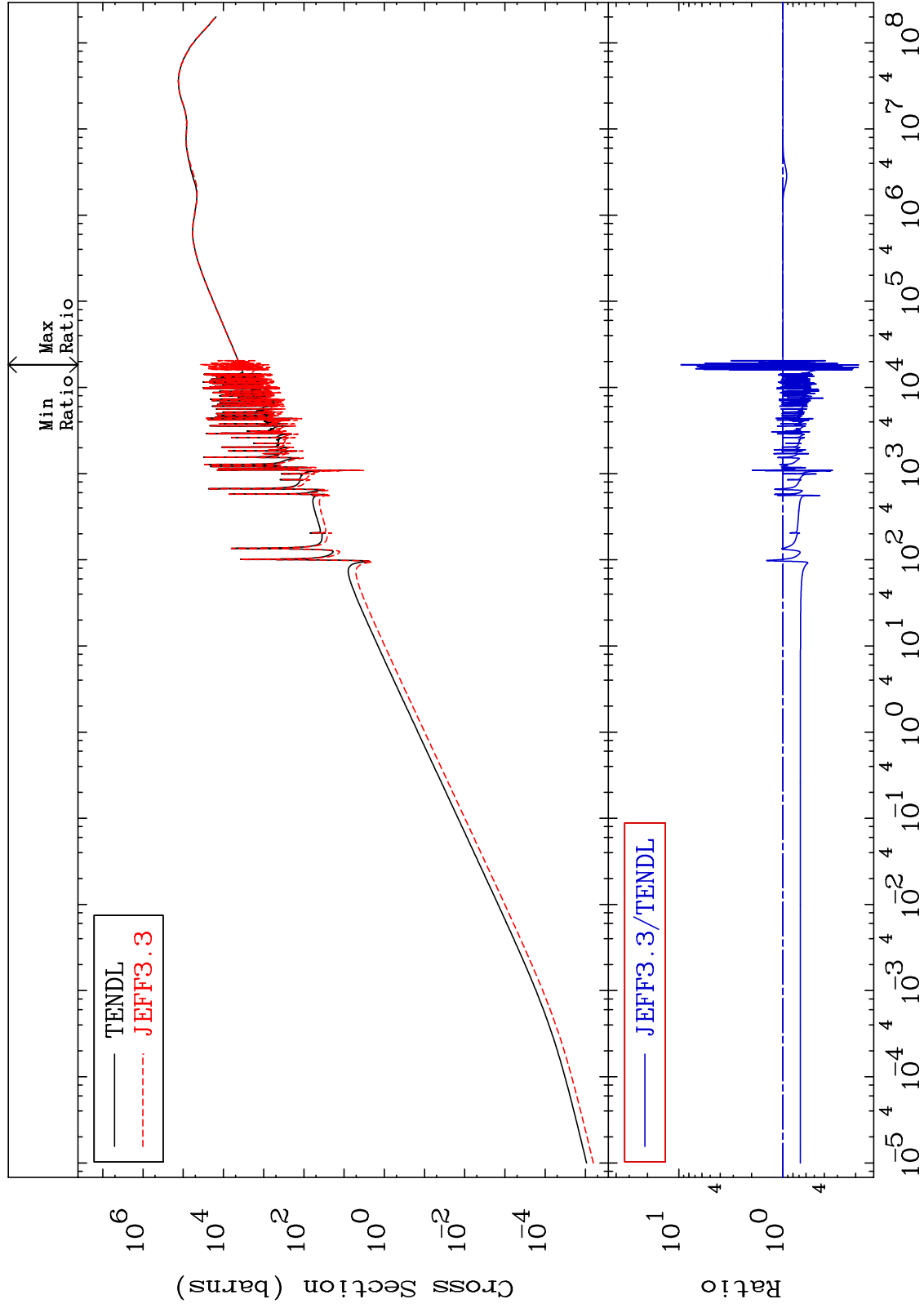
Incident Energy (eV)

35-Br-81

MAT 3531

Kerma elastic
Cross Section

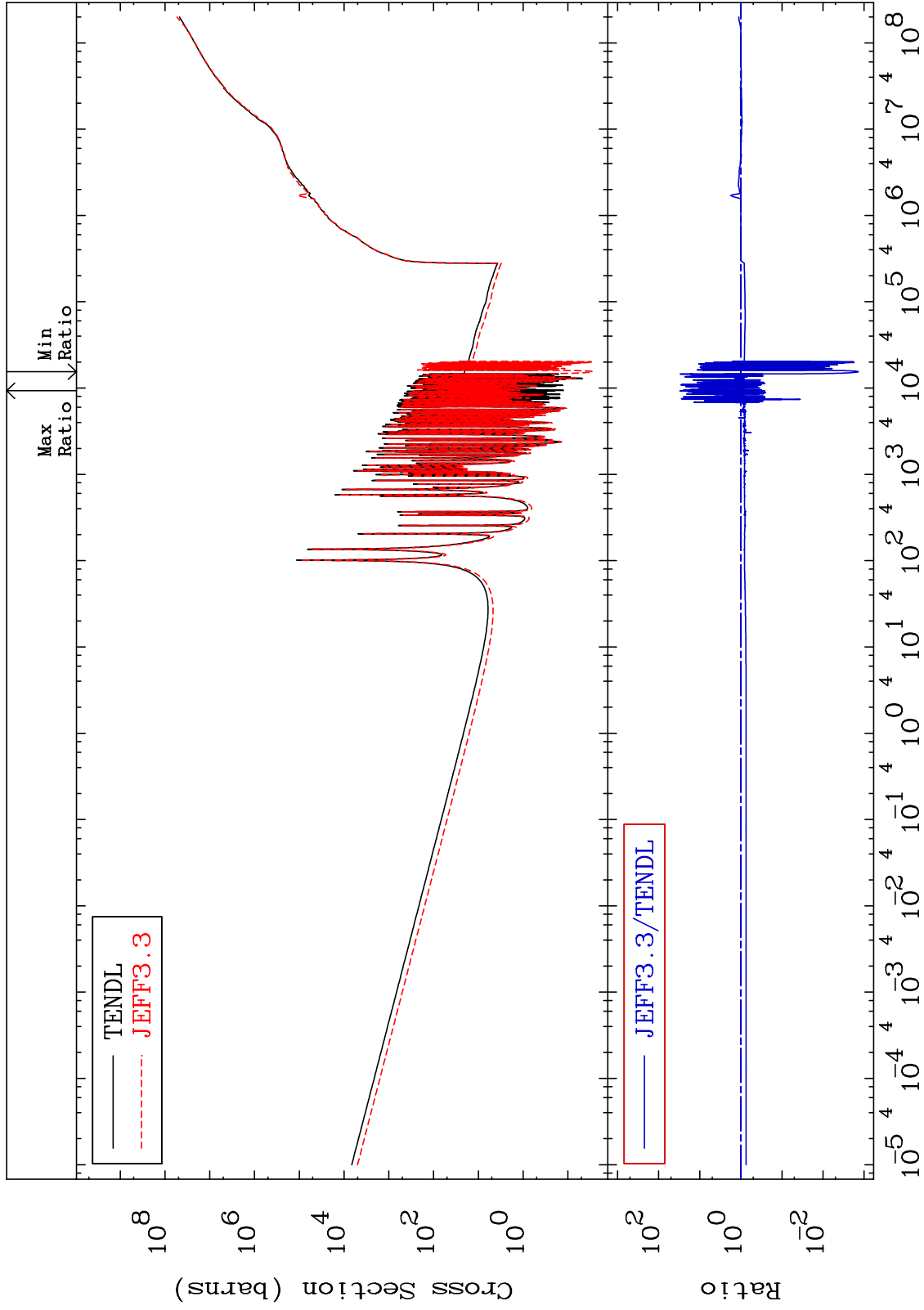
35-Br-81
-81.24 To 864.4 %



MAT 3531

Kerma non-elastic (all but mt2)
Cross Section

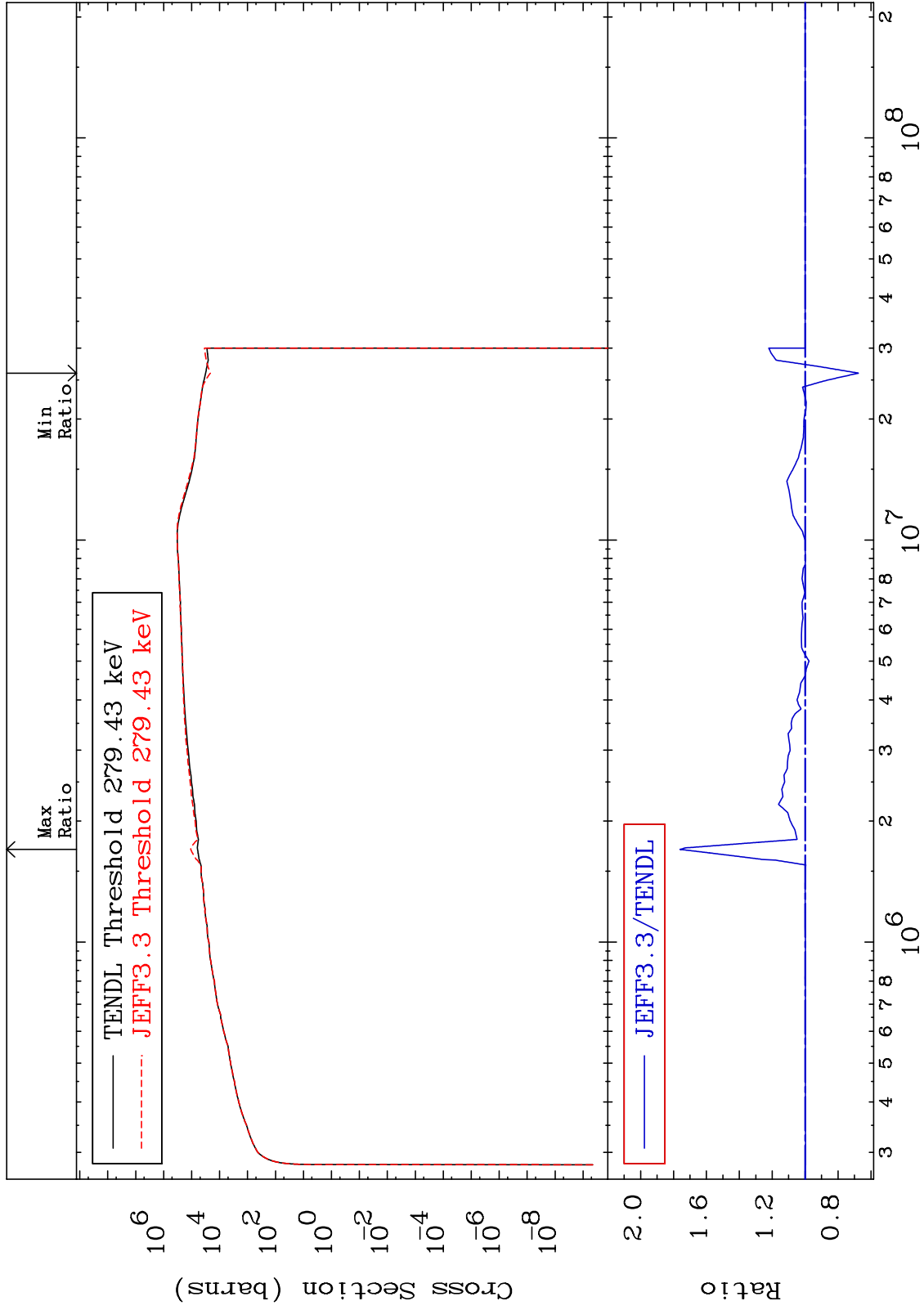
35-Br-81
-99.86 To 2923. %



MAT 3531

Kerma inelastic (mt51-91)
Cross Section

35-Br-81
-32.39 To 76.05 %



70

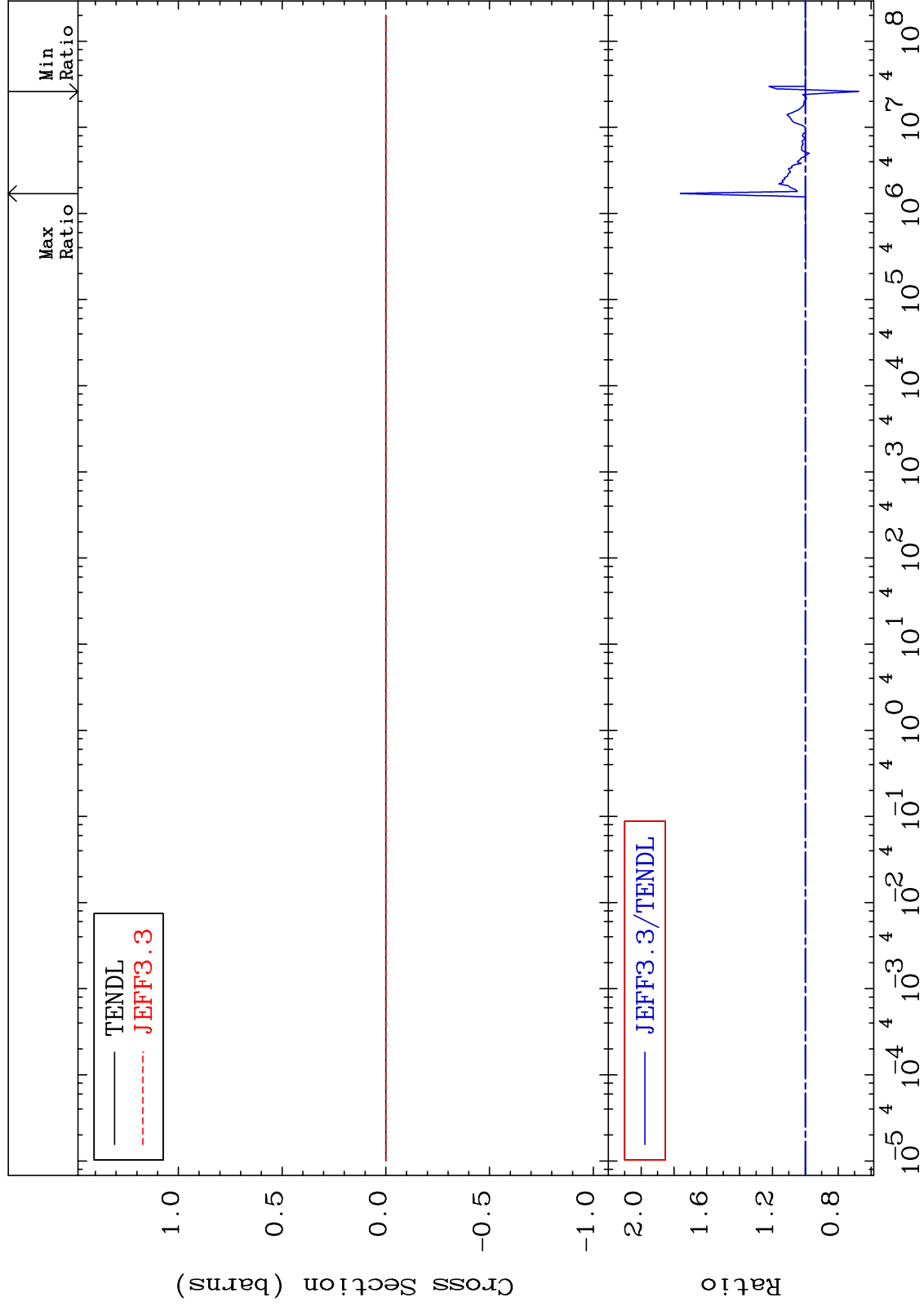
Incident Energy (eV)

35-Br-81

MAT 3531

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

35-Br-81
-32.39 To 76.05 %



71

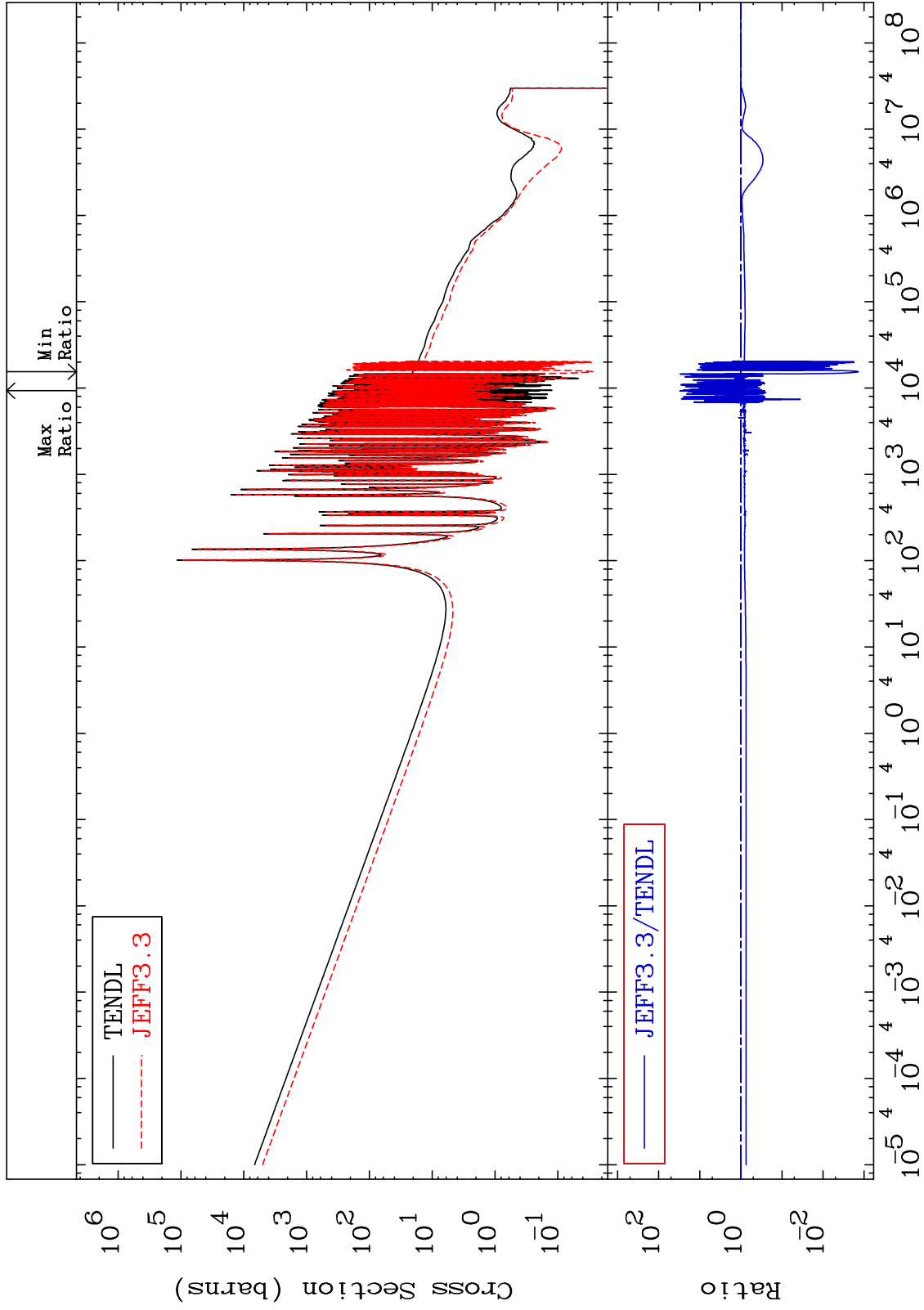
Incident Energy (eV)

35-Br-81

MAT 3531

Kerma capture (mt102)
Cross Section

35-Br-81
-99.86 To 2923. %



72

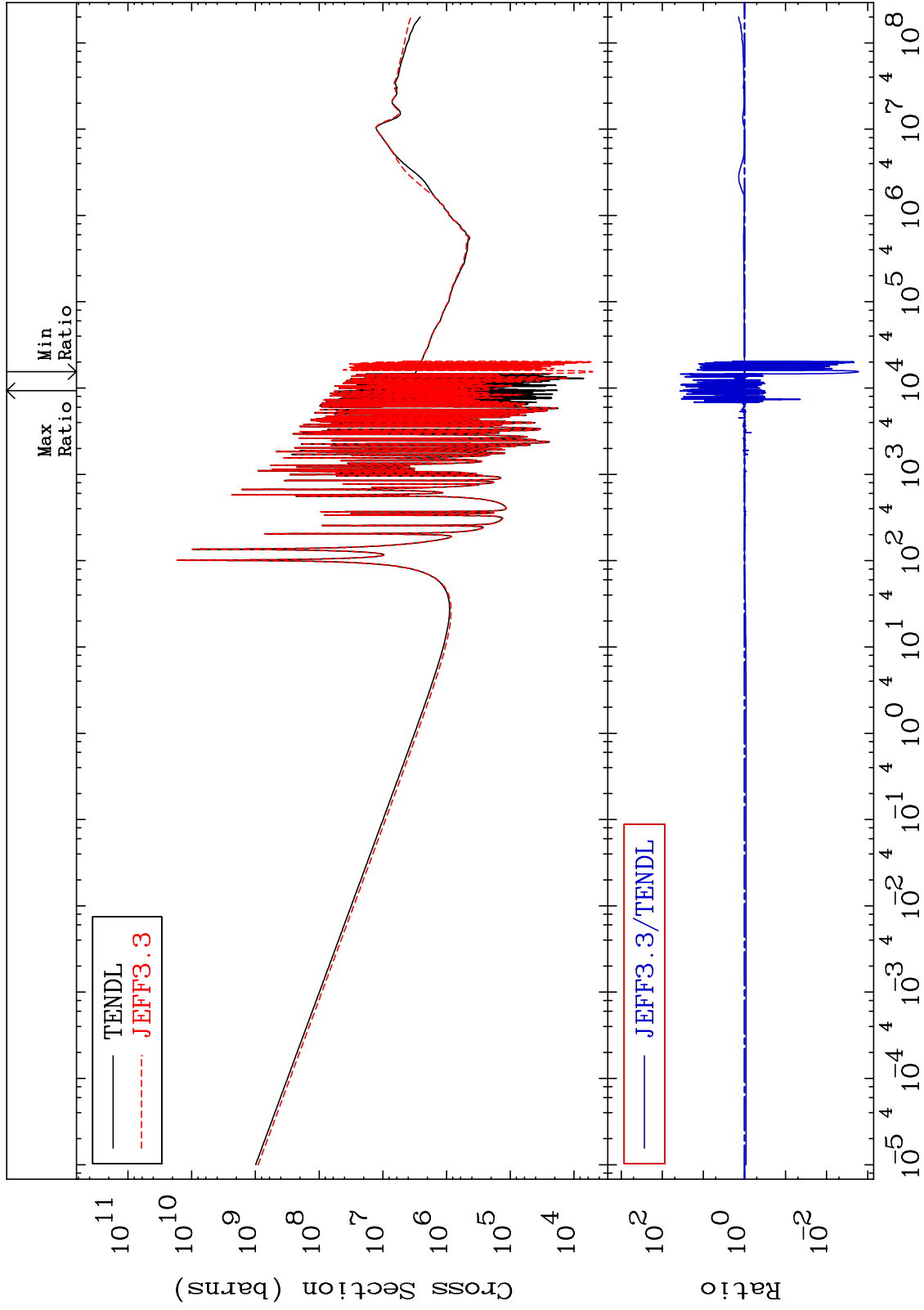
Incident Energy (eV)

35-Br-81

MAT 3531

Total photon (eV-barns)
Cross Section

35-Br-81
-99.83 To 3599. %



73

Incident Energy (eV)

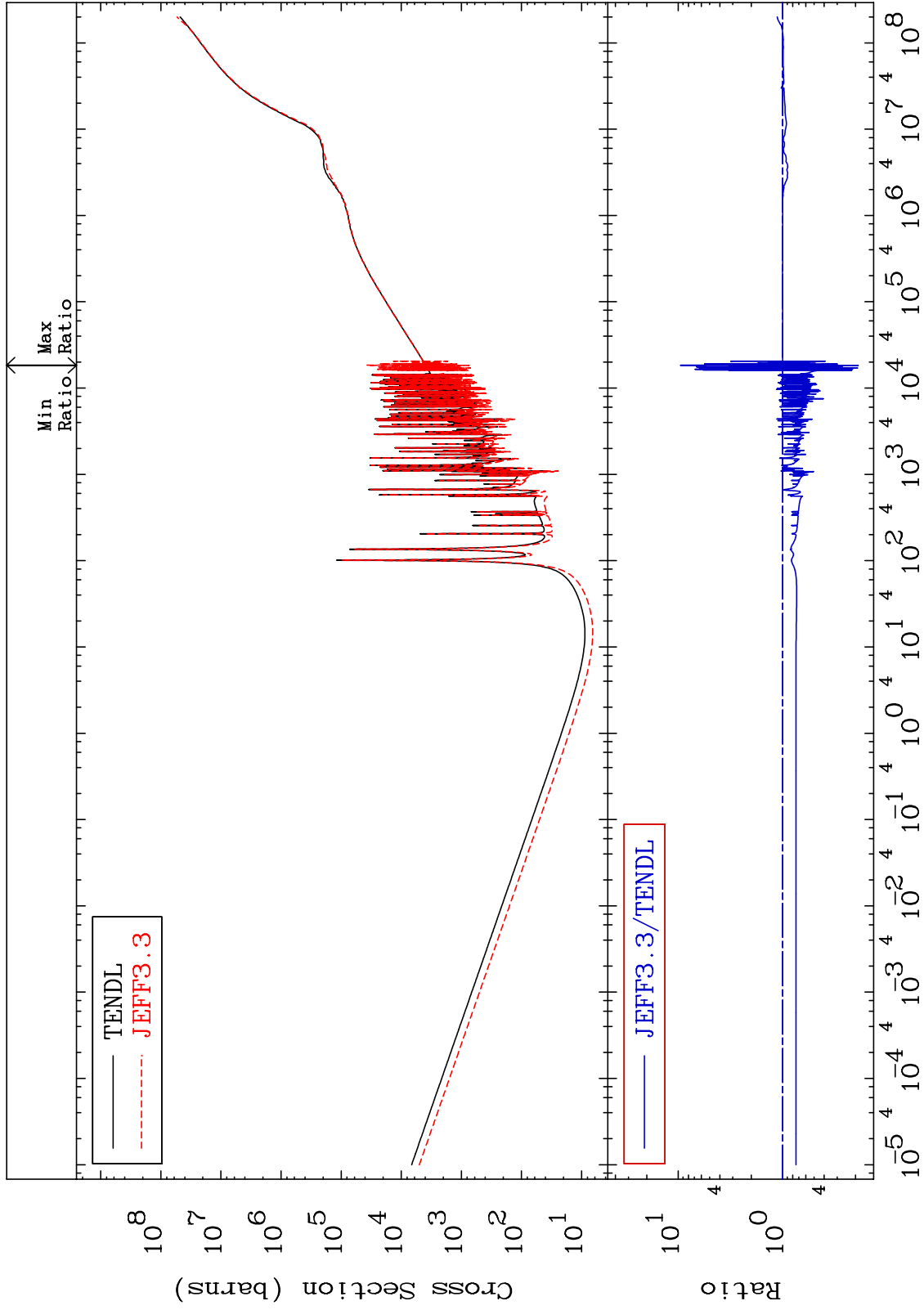
35-Br-81

MAT 3531

Total kinematic kerma (high limit)
Cross Section

35-Br-81

-81.24 To 861.9 %



74

Incident Energy (eV)

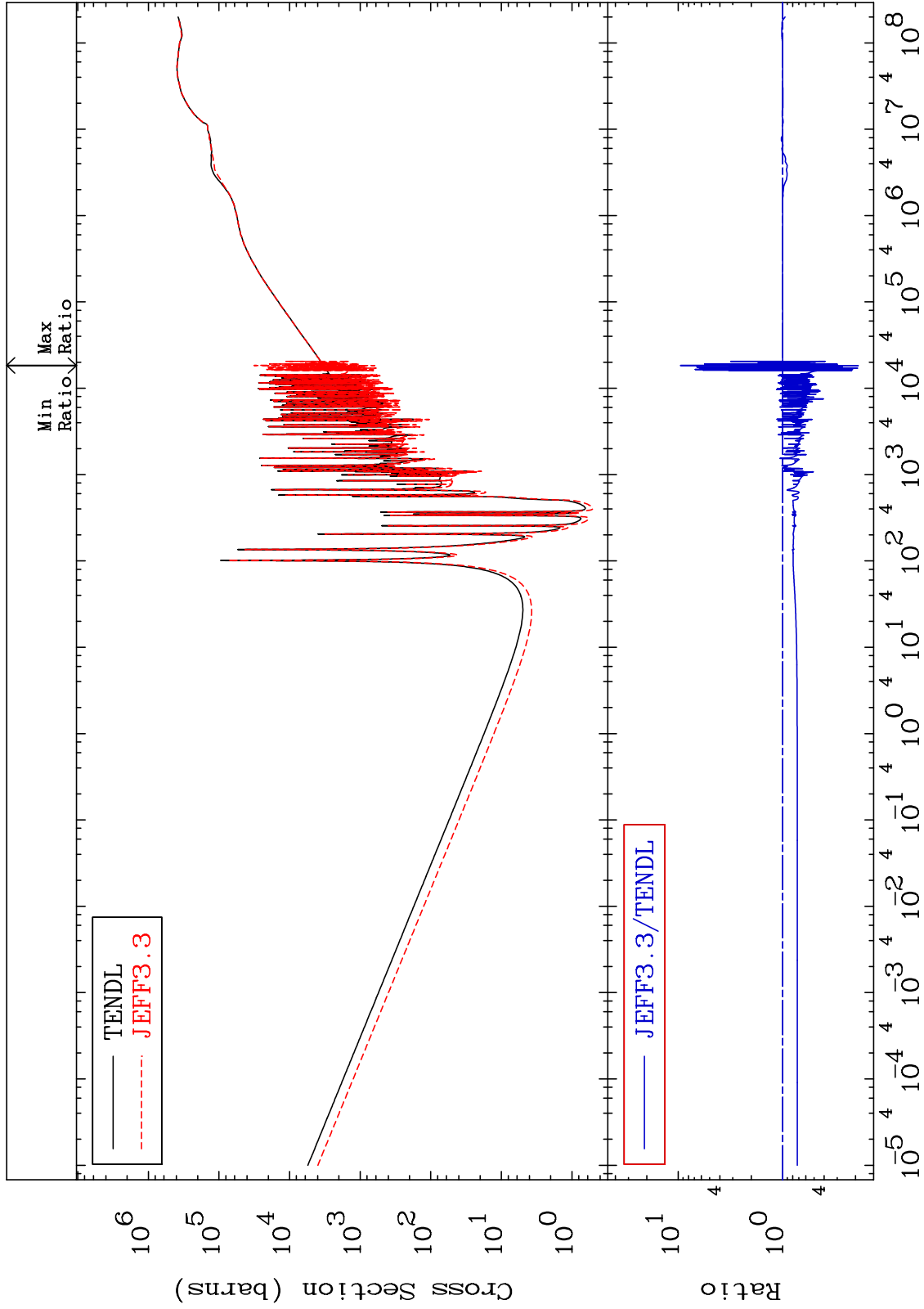
35-Br-81

MAT 3531

Dpa total (eV-barns)
Cross Section

35-Br-81

-81.24 To 862.0 %



75

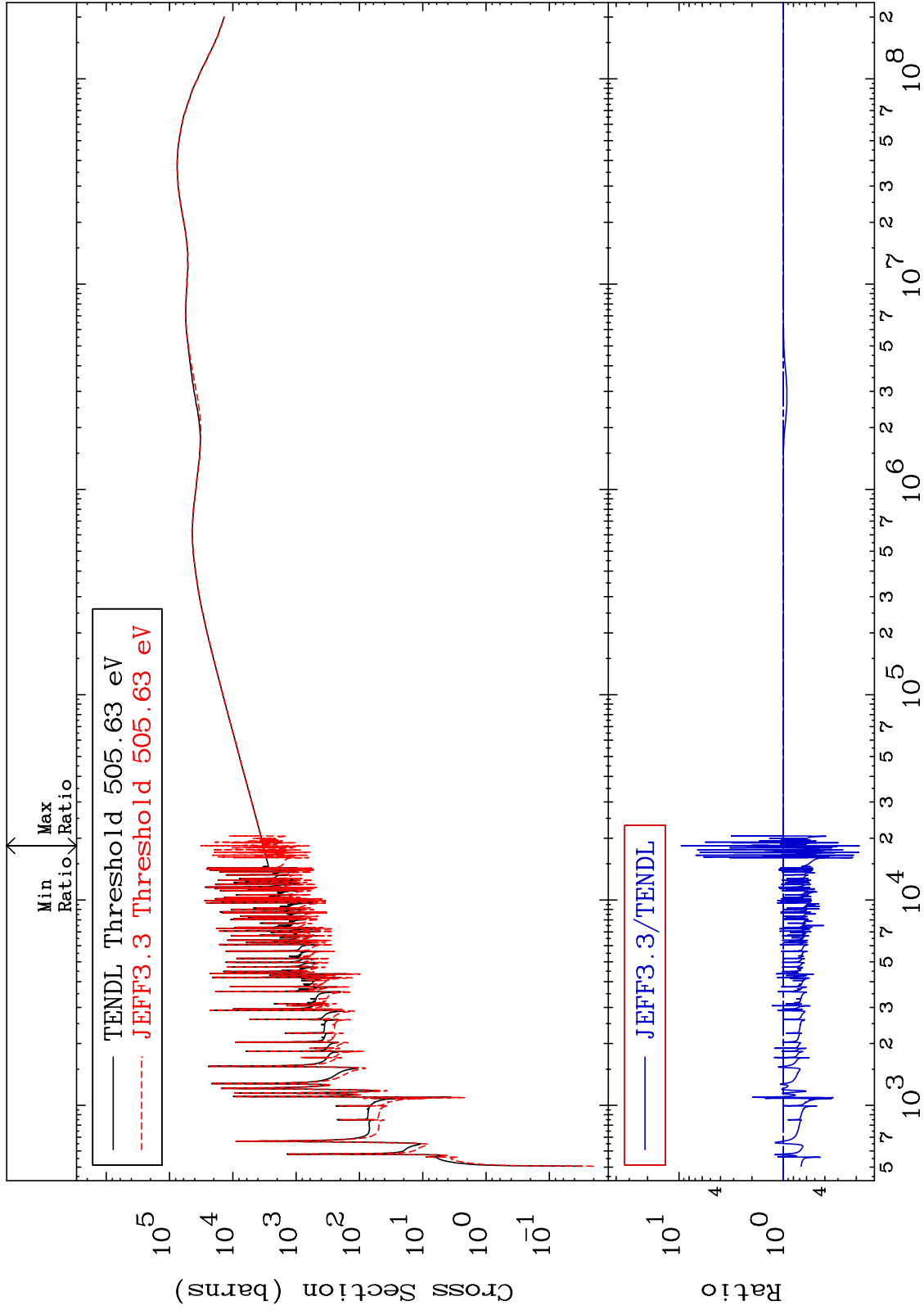
Incident Energy (eV)

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

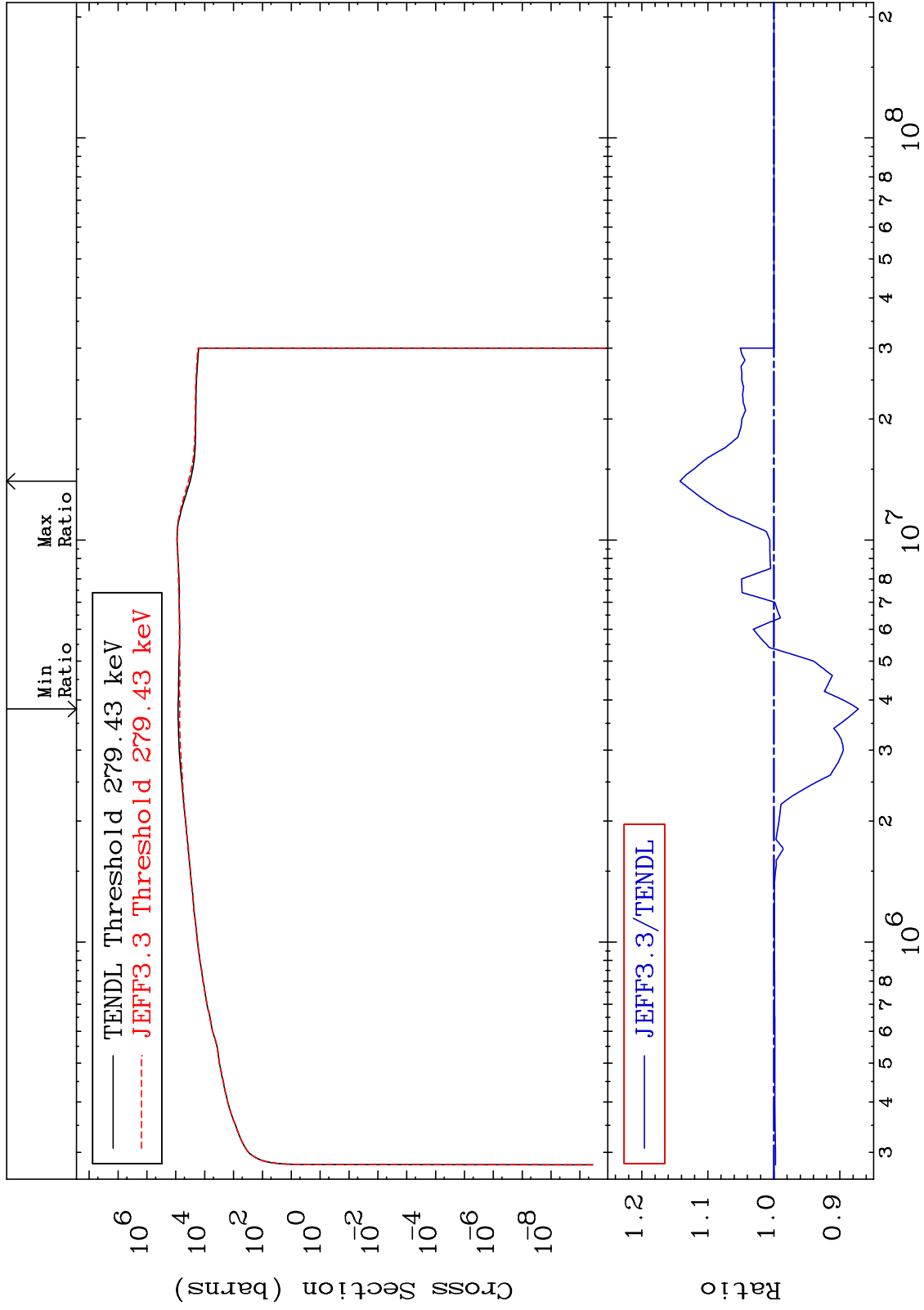
MAT 3531

Dpa inelastic (mt51-91)

35-Br-81

-12.81 To 14.21 %

Cross Section



77

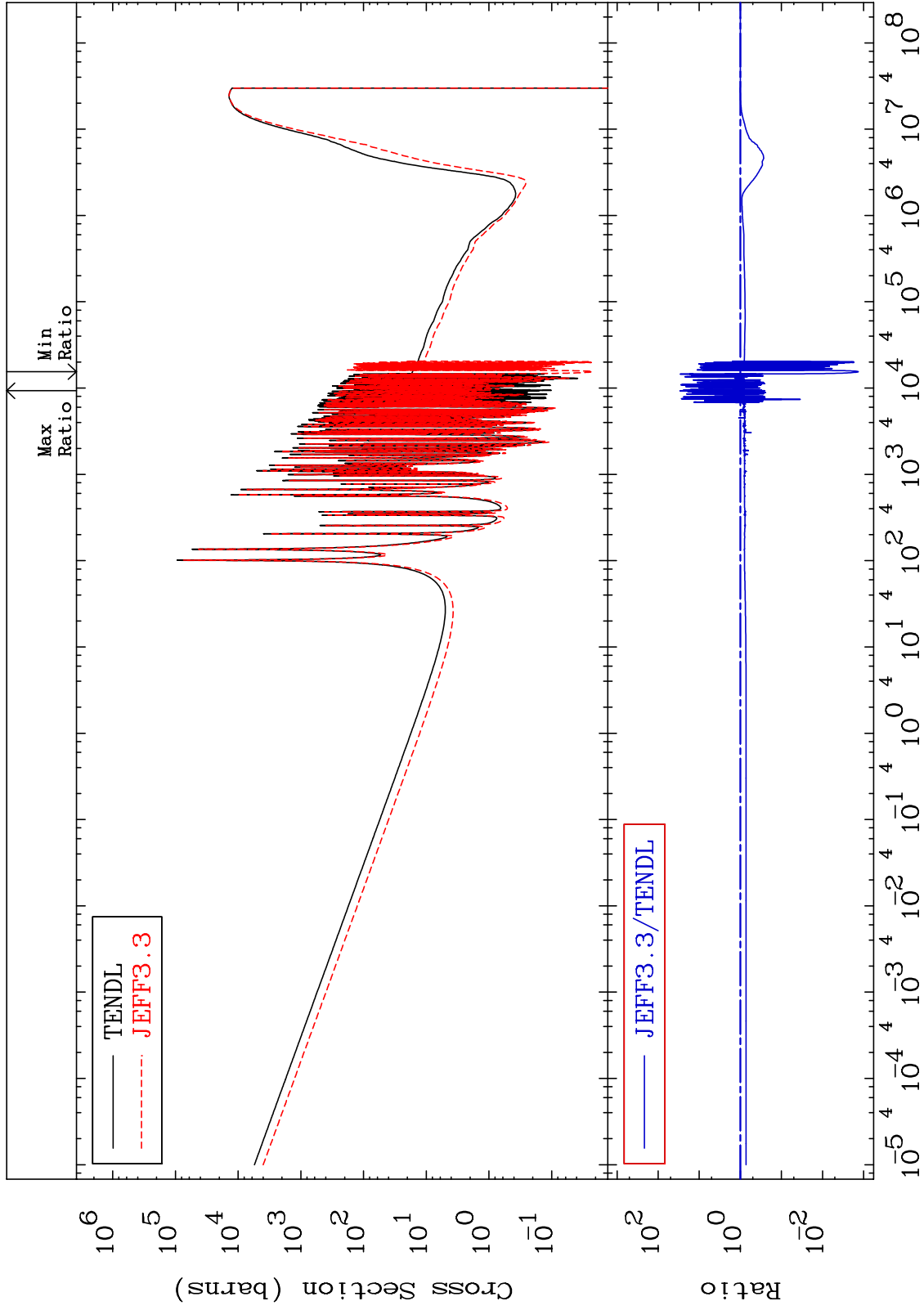
Incident Energy (eV)

35-Br-81

MAT 3531

Dpa disappearance (mt102 -120)
Cross Section

35-Br-81
-99.87 To 2838. %



78

Incident Energy (eV)

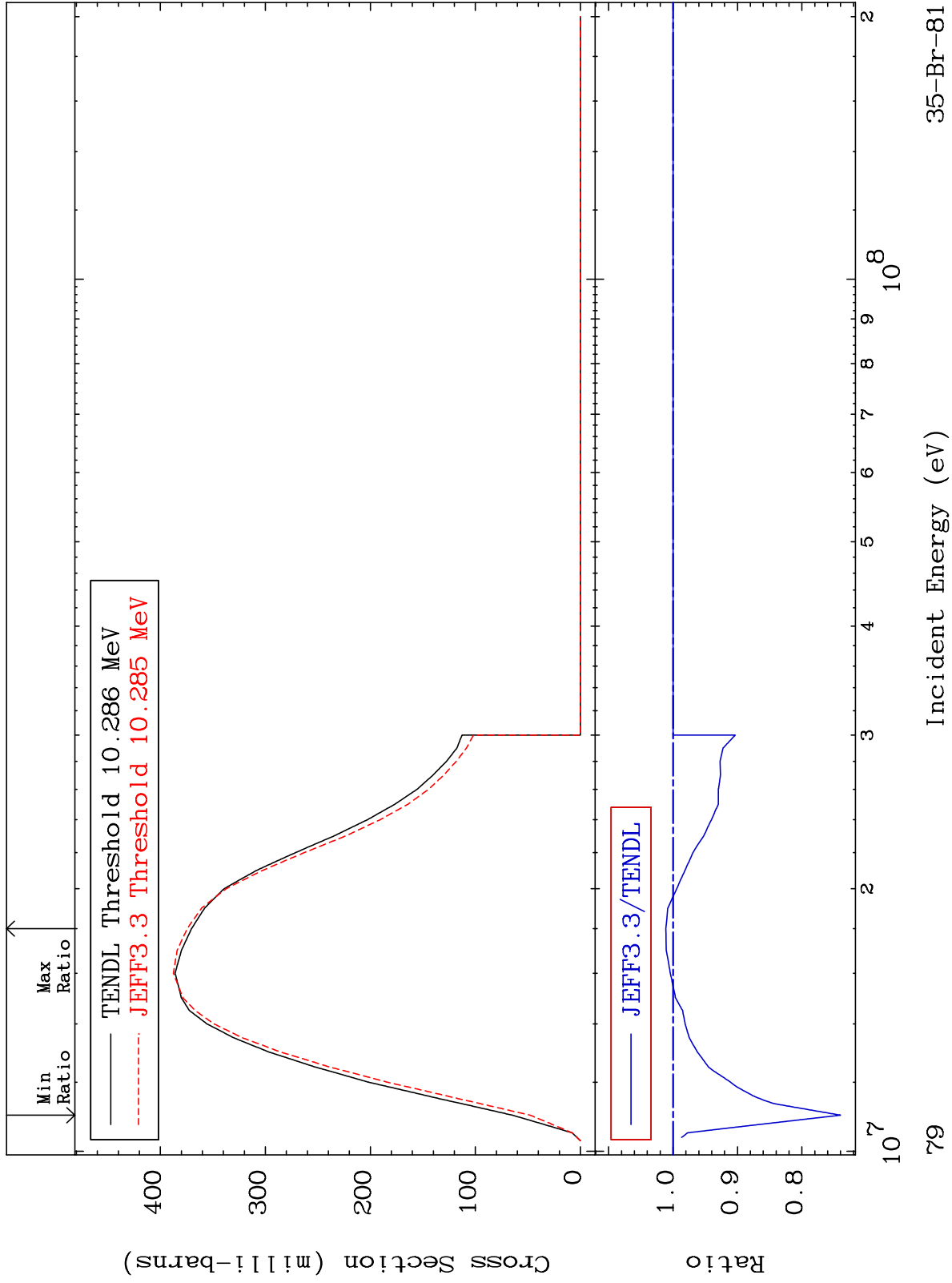
35-Br-81

MAT 3531

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

35-Br-81

Radionuclide Production Cross Section -25.99 To 1.120 %

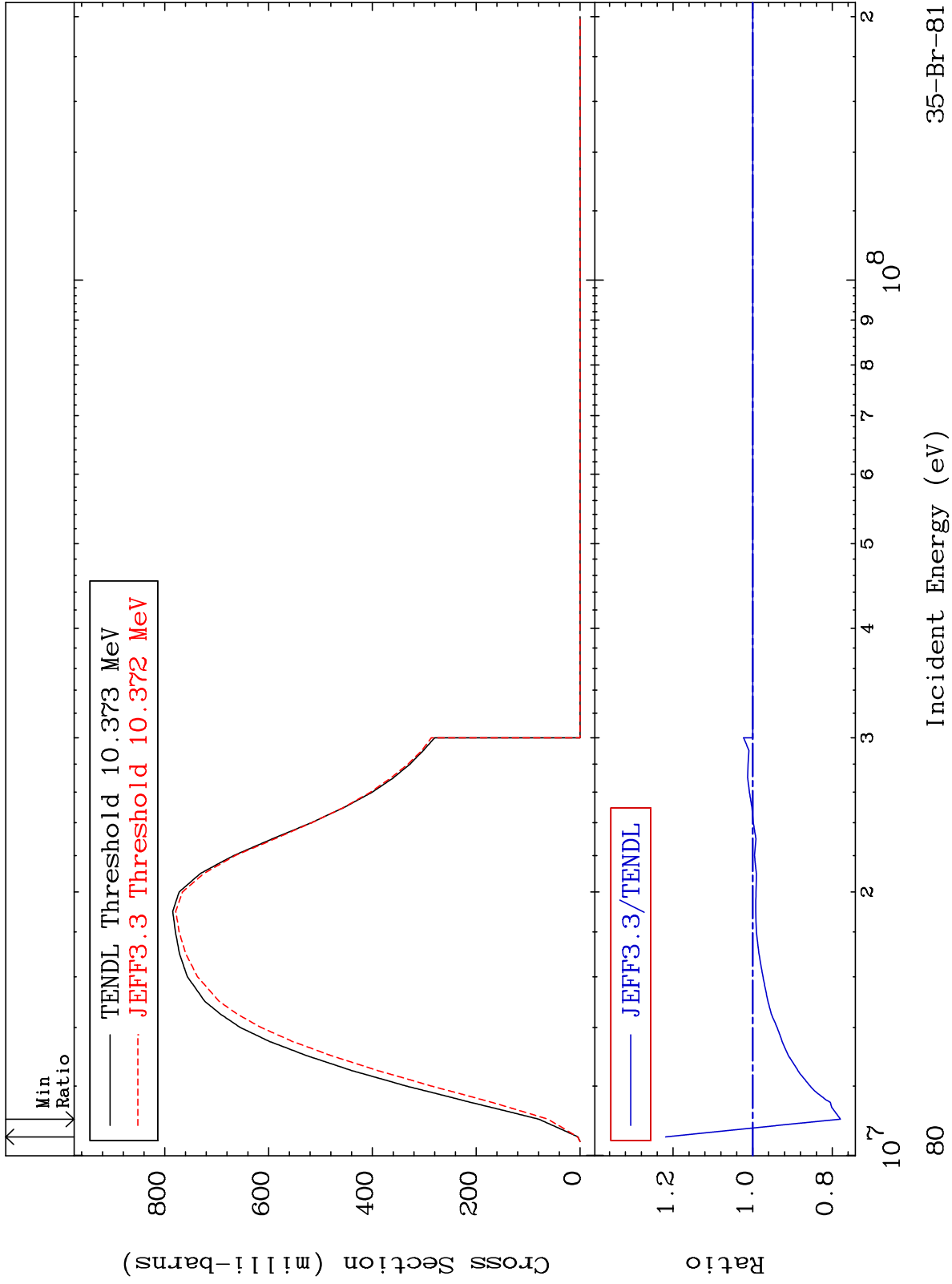


MAT 3531

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

35-Br-81

Radionuclide Production Cross Section -22.05 To 21.89 %



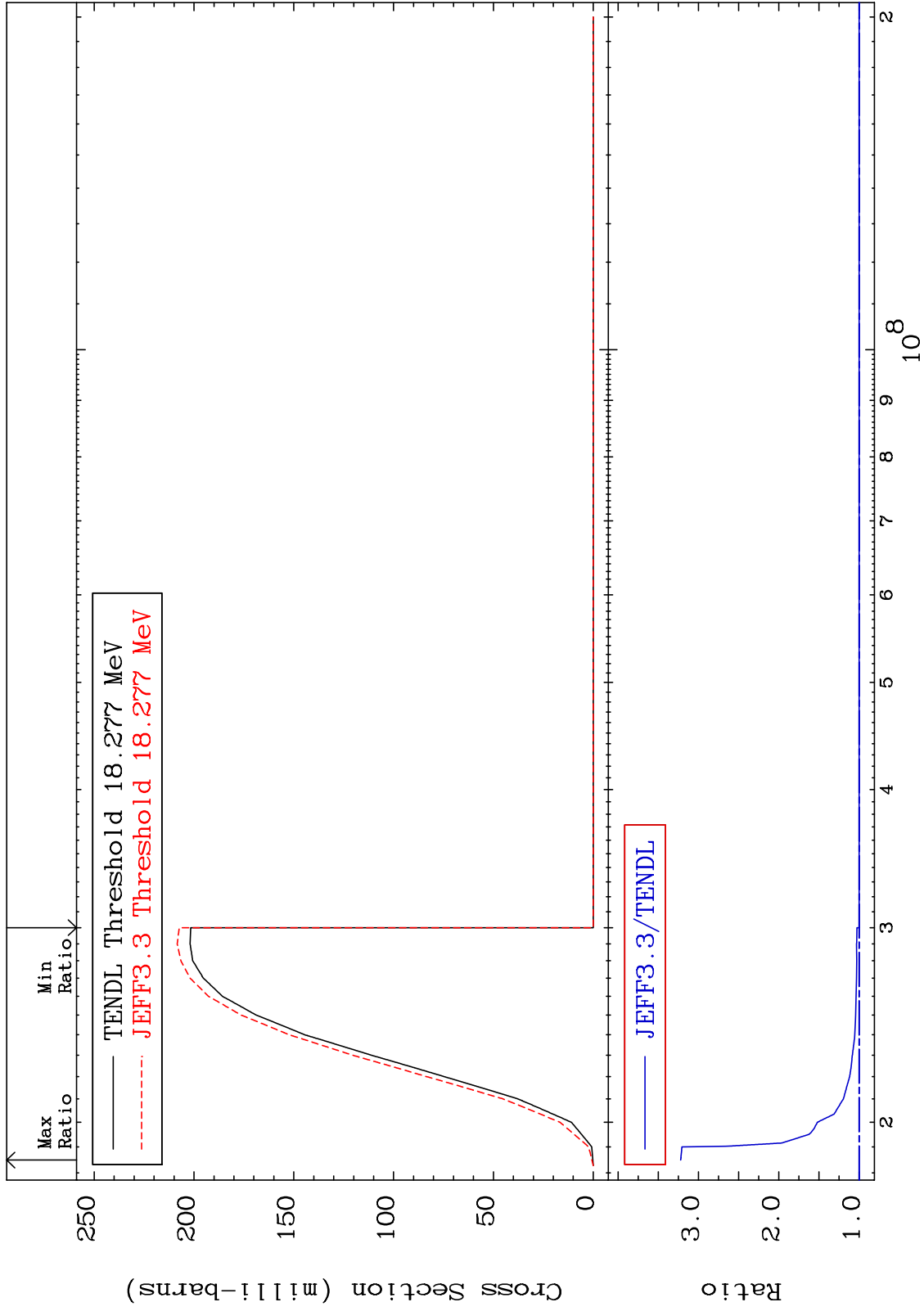
35-Br-81

MAT 3531

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

35-Br-81

Radionuclide Production Cross Section 0.000 To 222.2 %

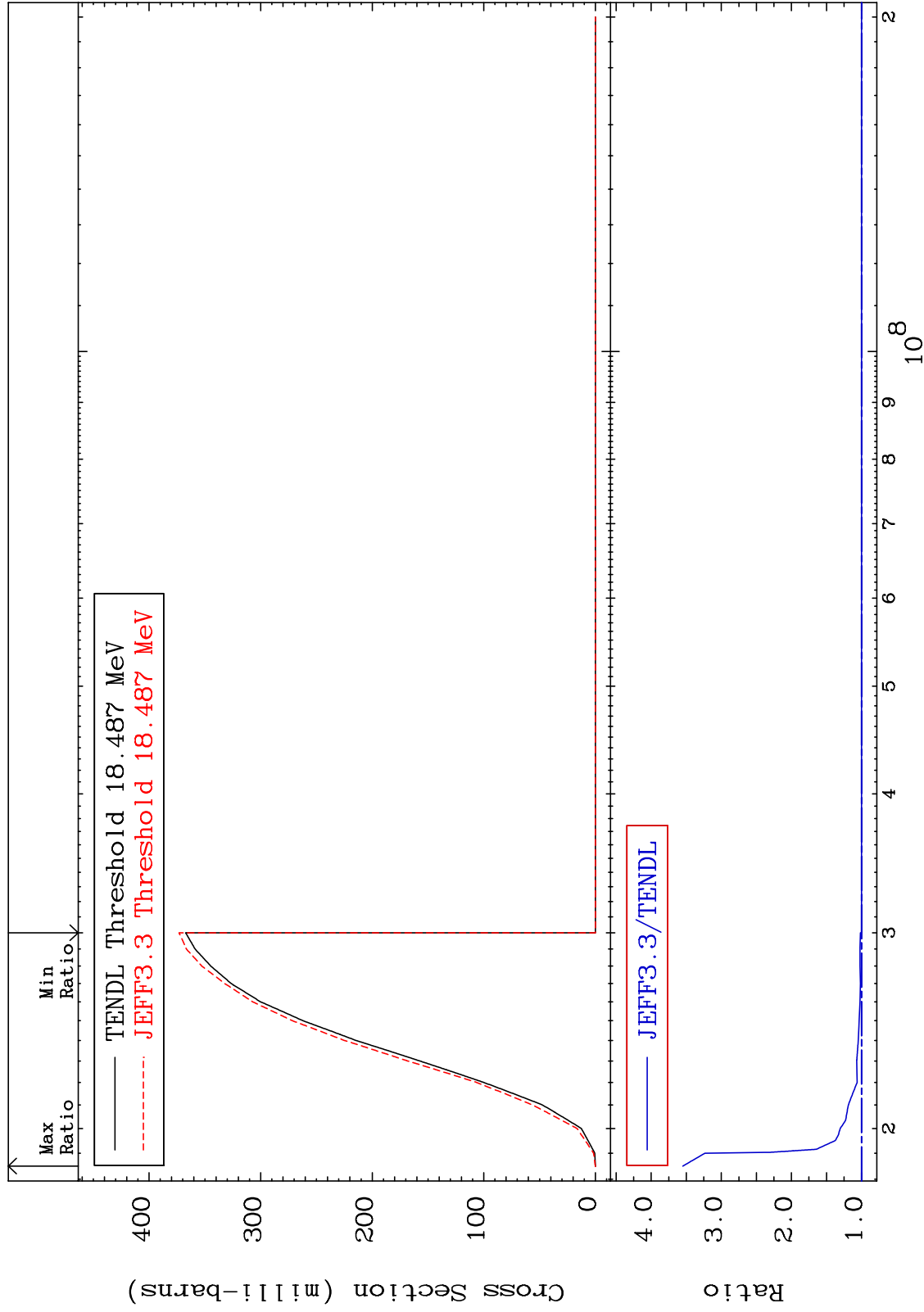


MAT 3531

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

35-Br-81

Radionuclide Production Cross Section 0.000 To 254.8 %

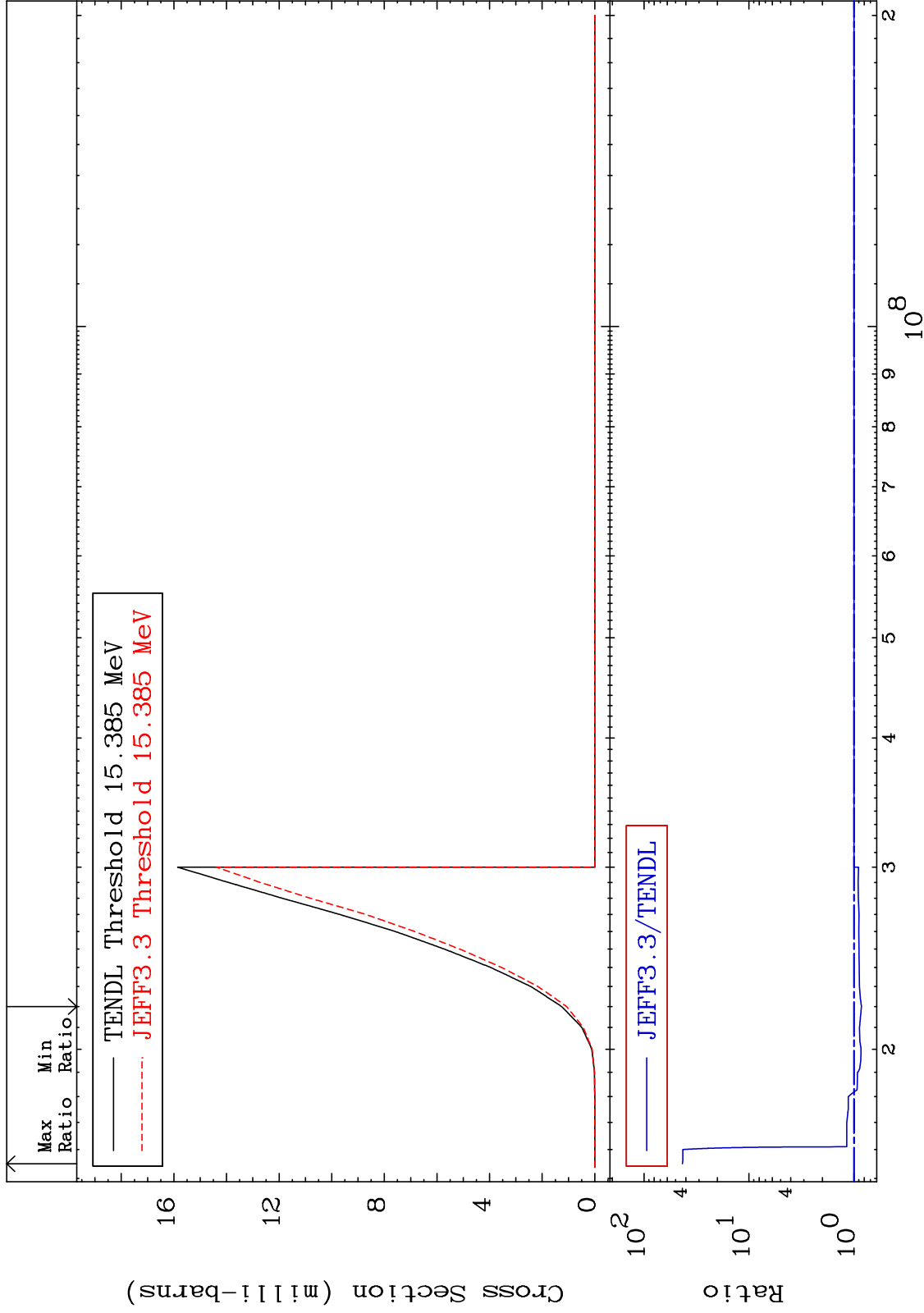


82

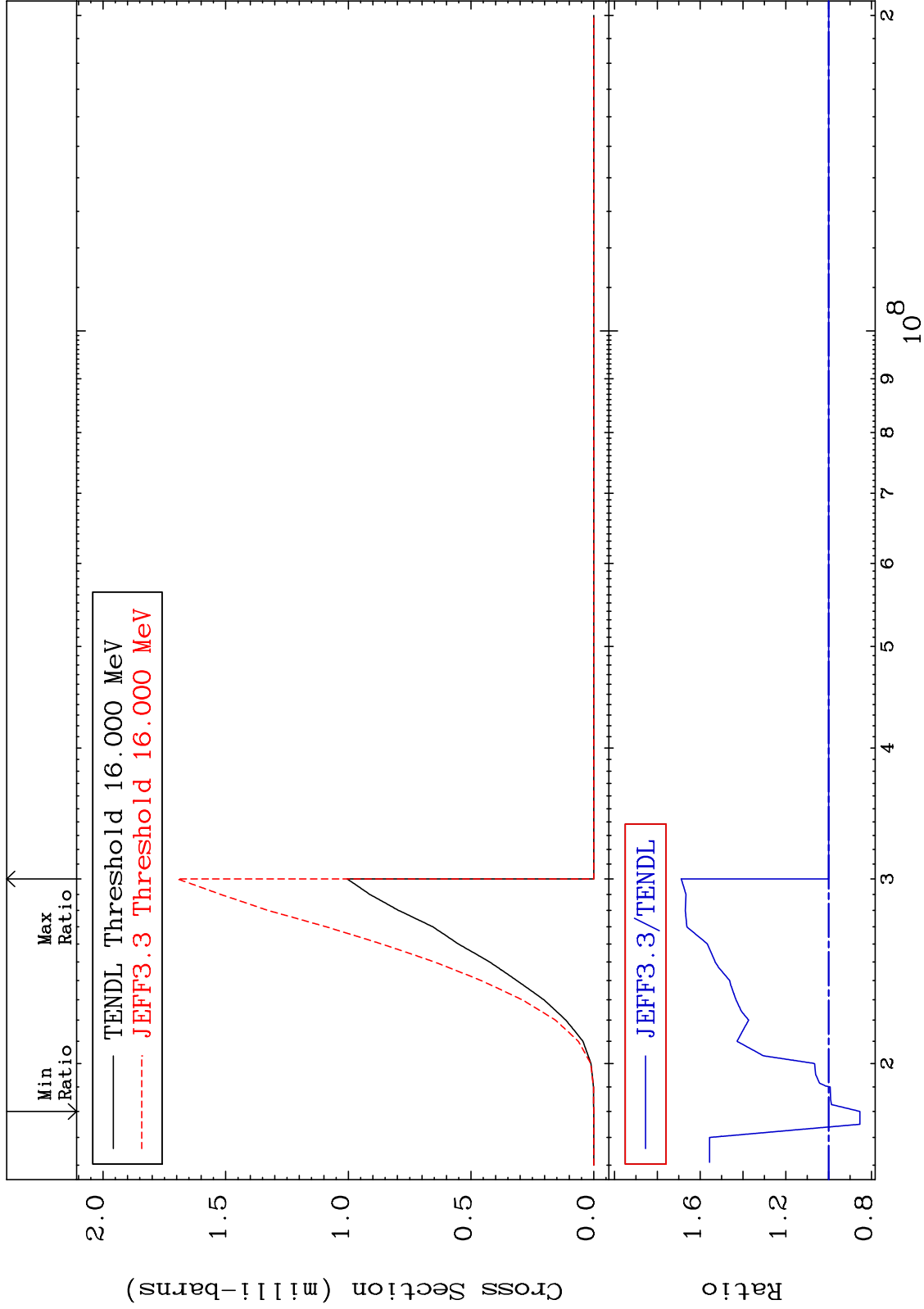
Incident Energy (eV)

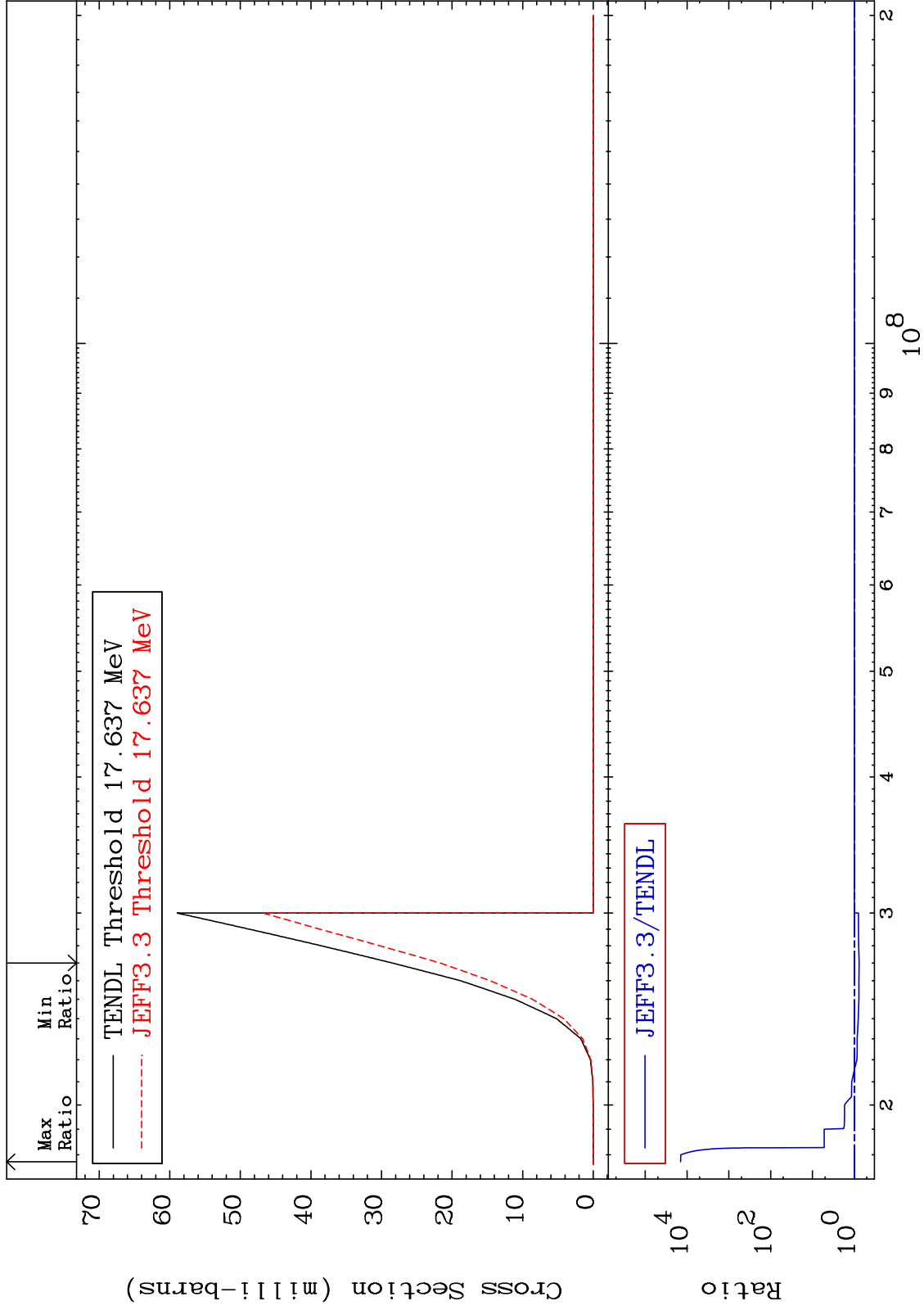
35-Br-81

Radionuclide Production Cross Section -15.00 To 4204. %



Radionuclide Production Cross Section -14.58 To 68.84 %



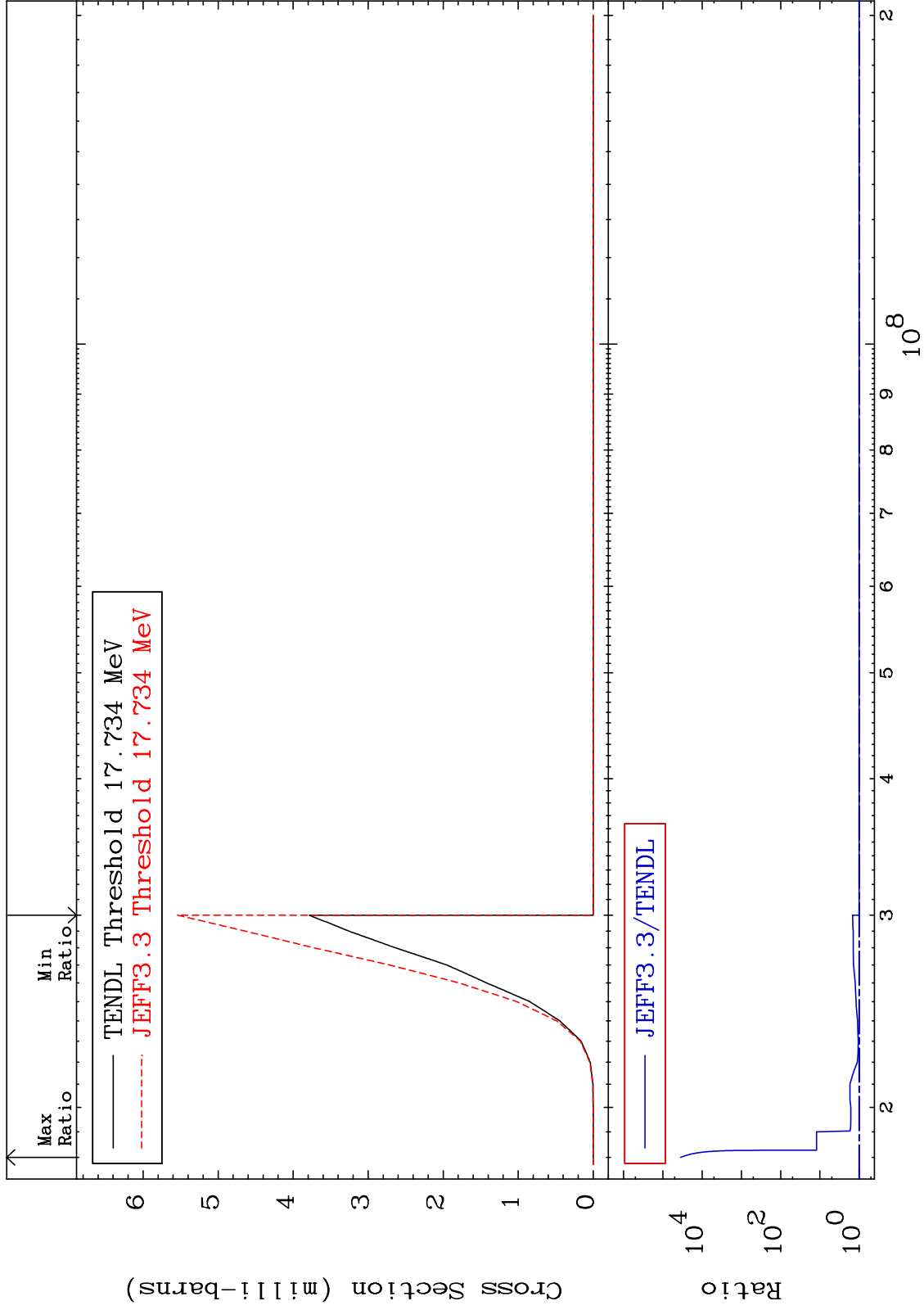


MAT 3531

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

35-Br-81

Radionuclide Production Cross Section 0.000 To 9999. %

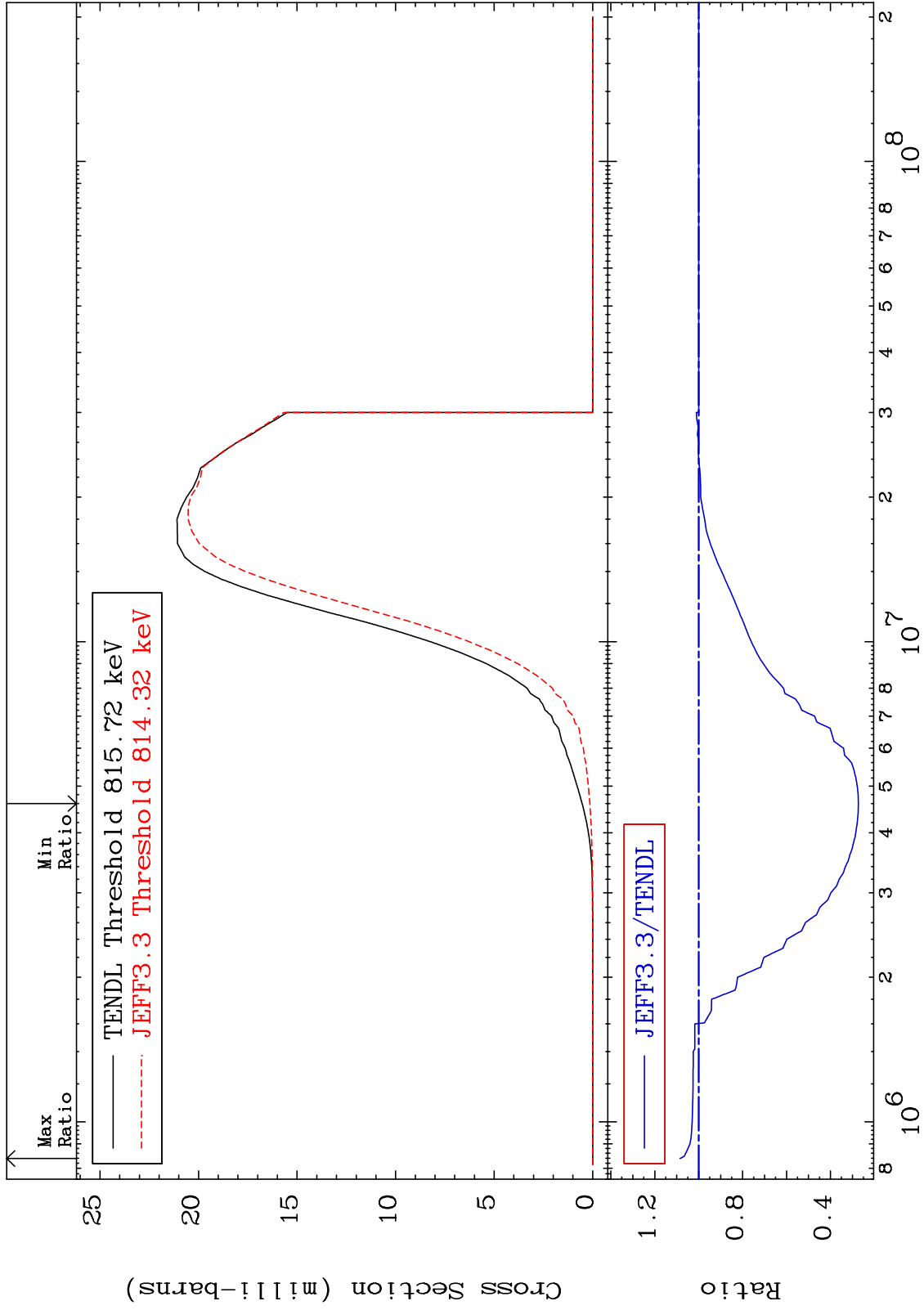


MAT 3531

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

35-Br-81

Radionuclide Production Cross Section -72.73 To 8.500 %



87

Incident Energy (eV)

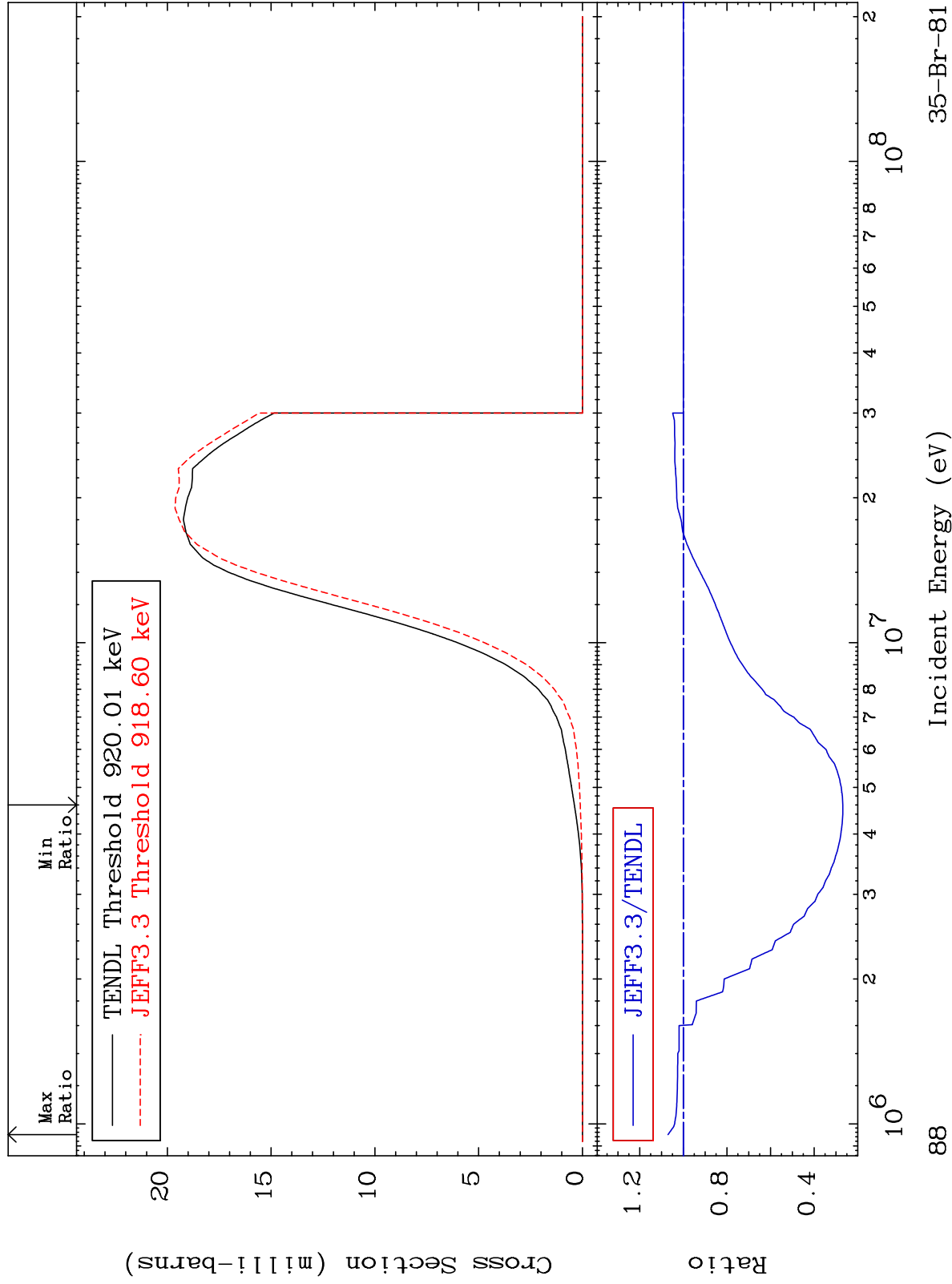
35-Br-81

MAT 3531

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

35-Br-81

Radionuclide Production Cross Section -73.14 To 7.055 %



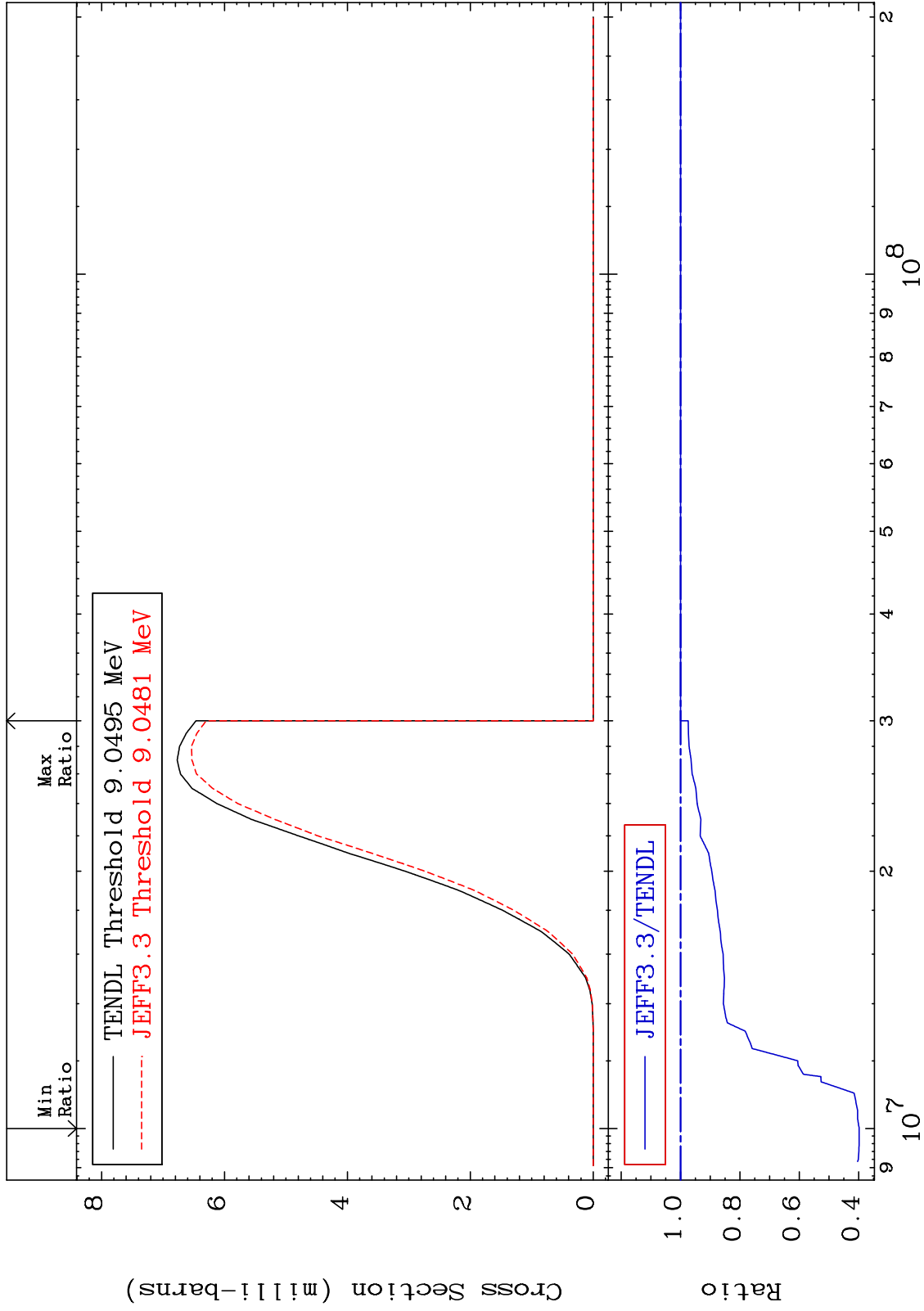
88

MAT 3531

35-Br-81

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

Radionuclide Production Cross Section -60.17 To 0.000 %



89

Incident Energy (eV)

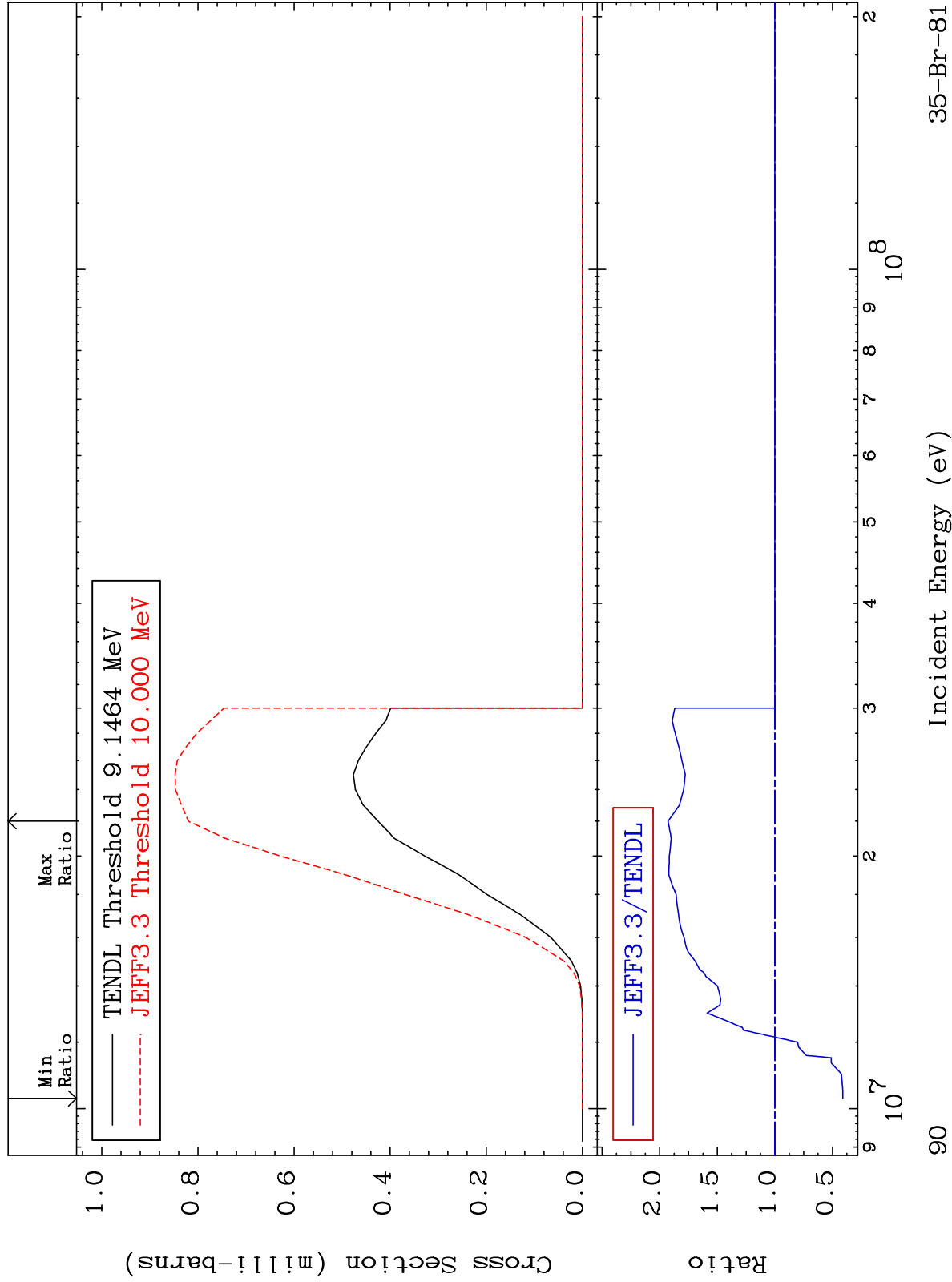
35-Br-81

MAT 3531

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

35-Br-81

Radionuclide Production Cross Section -58.97 To 92.79 %



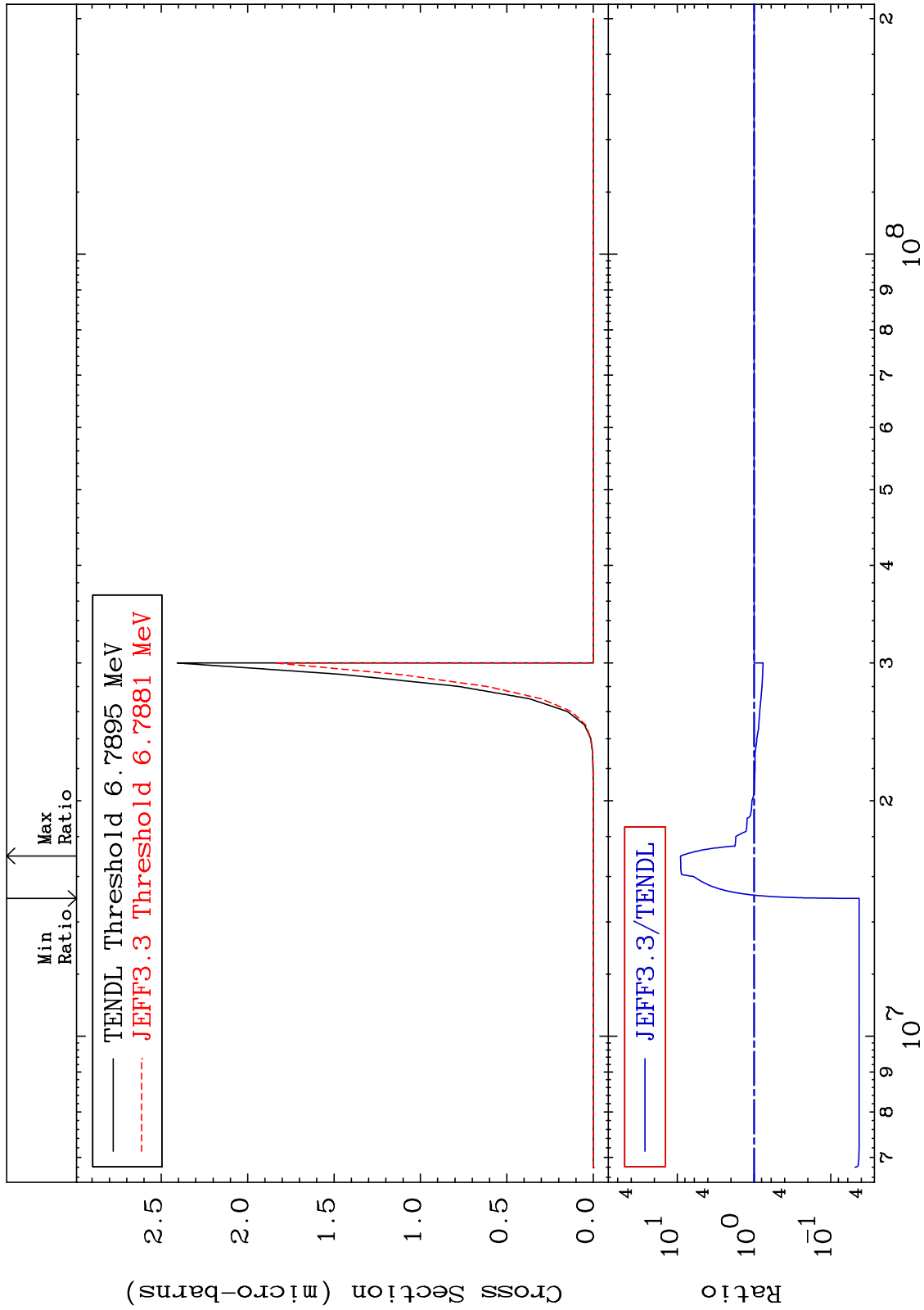
35-Br-81

MAT 3531

(n,2α):31-Ga-74g

35-Br-81

Radionuclide Production Cross Section -95.73 To 807.5 %



91

Incident Energy (eV)

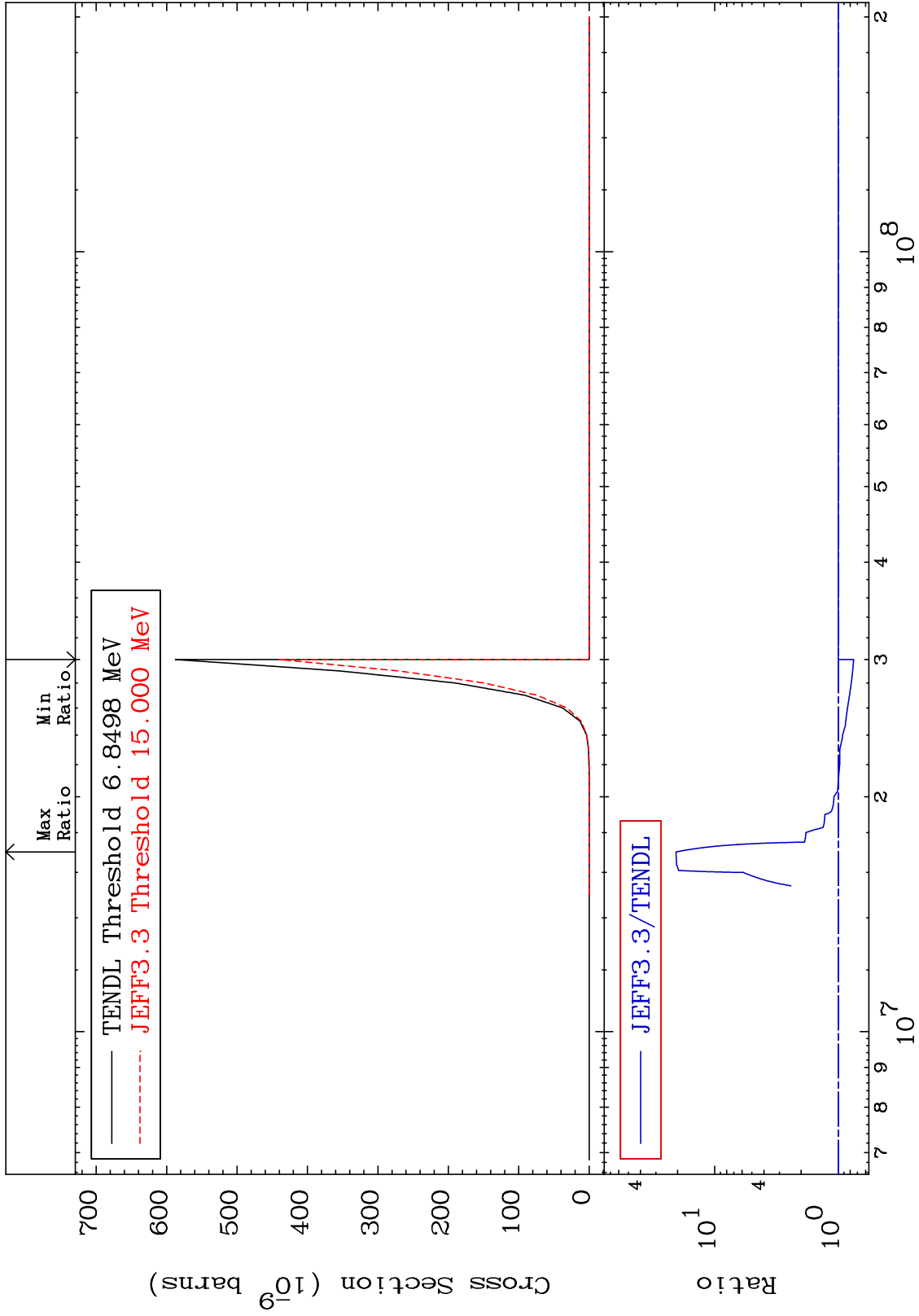
35-Br-81

MAT 3531

(n,2α):31-Ga-74m2

35-Br-81

Radionuclide Production Cross Section -25.11 To 1955. %



92

Incident Energy (eV)

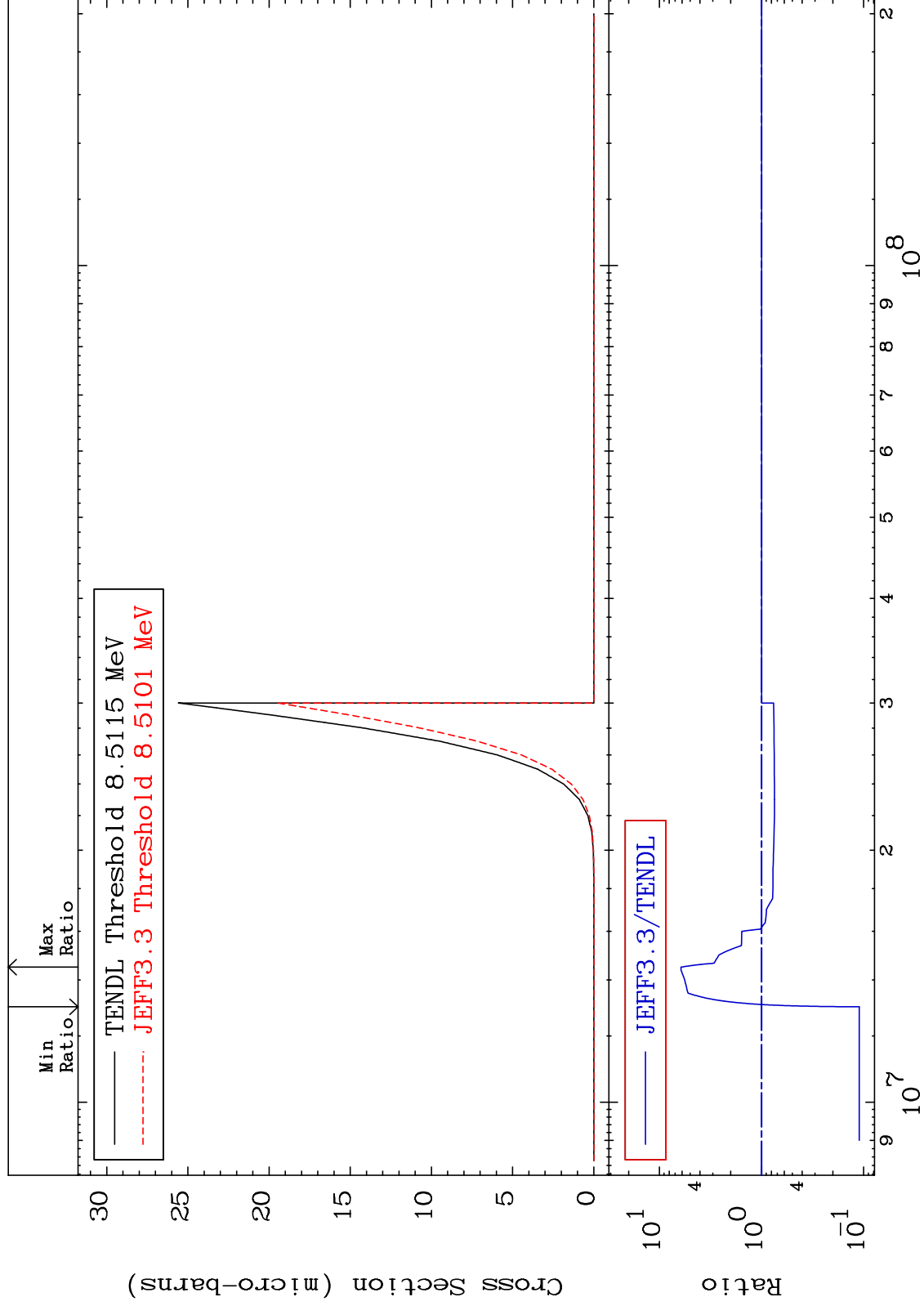
35-Br-81

MAT 3531

35-Br-81

(n, p) α :32-Ge-77g

Radionuclide Production Cross Section -88.95 To 513.2 %



93

Incident Energy (eV)

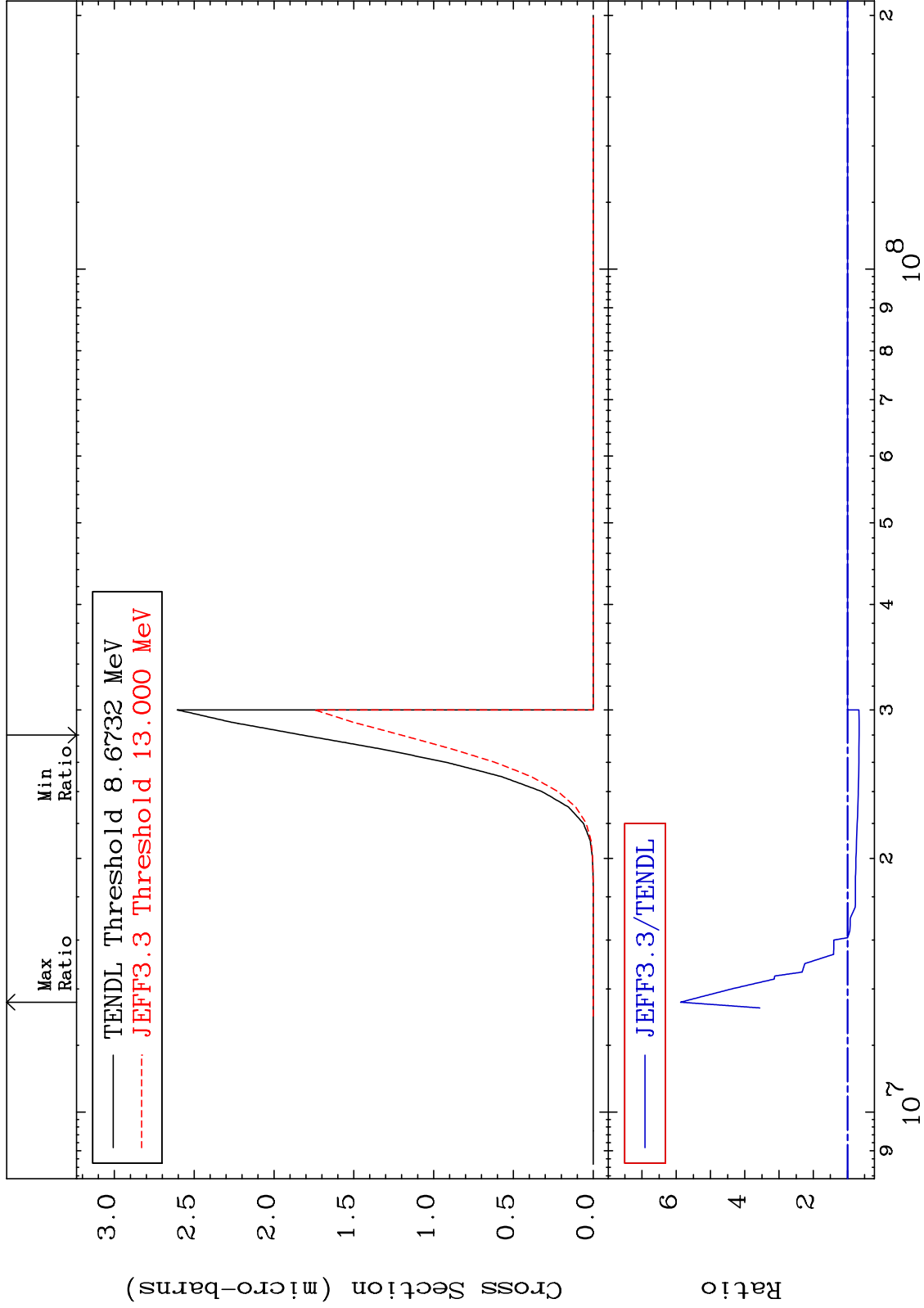
35-Br-81

MAT 3531

(n, p) α : 32-Ge-77m1

35-Br-81

Radionuclide Production Cross Section -33.99 To 487.3 %



94

Incident Energy (eV)

35-Br-81