

Program Complot
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

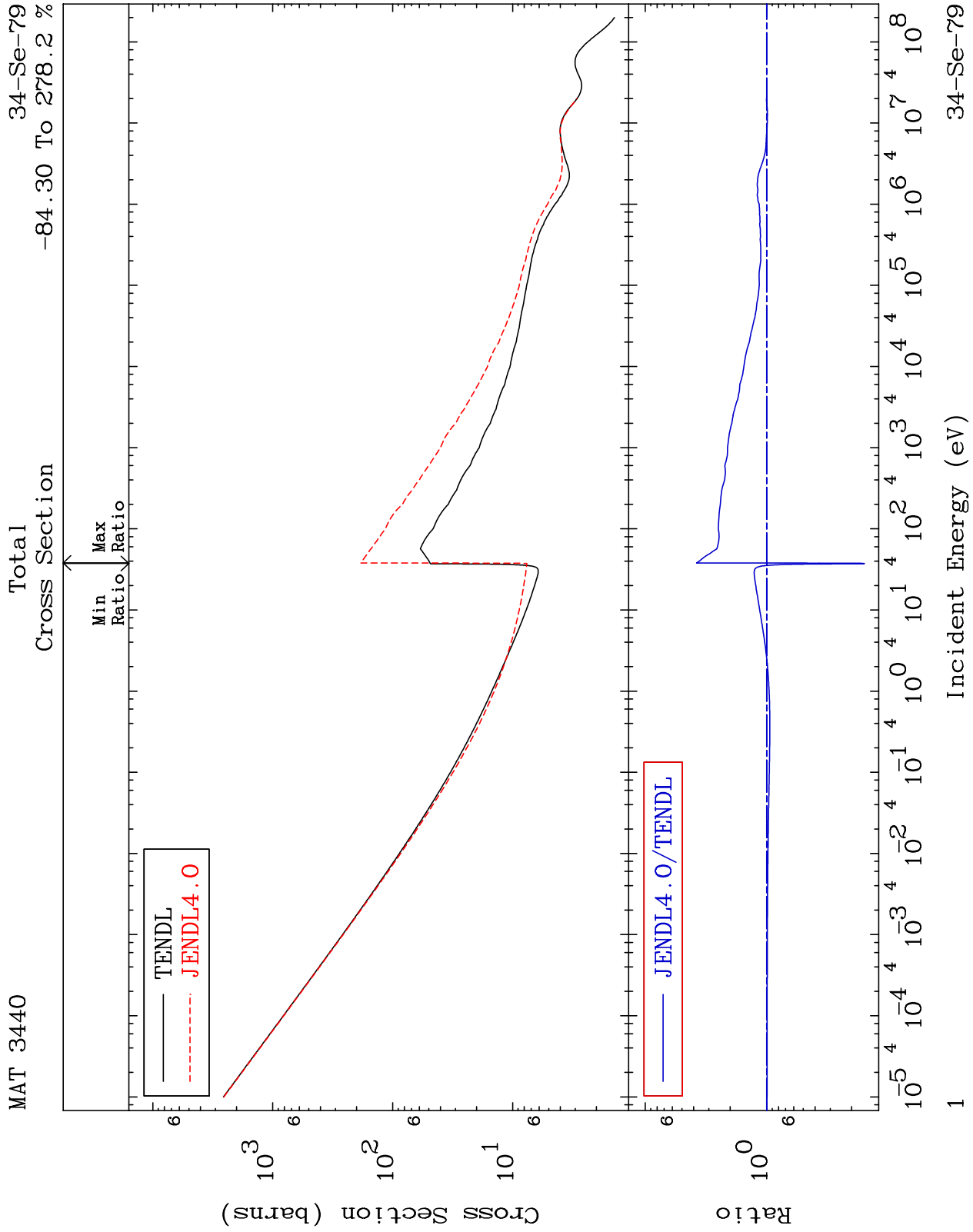
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

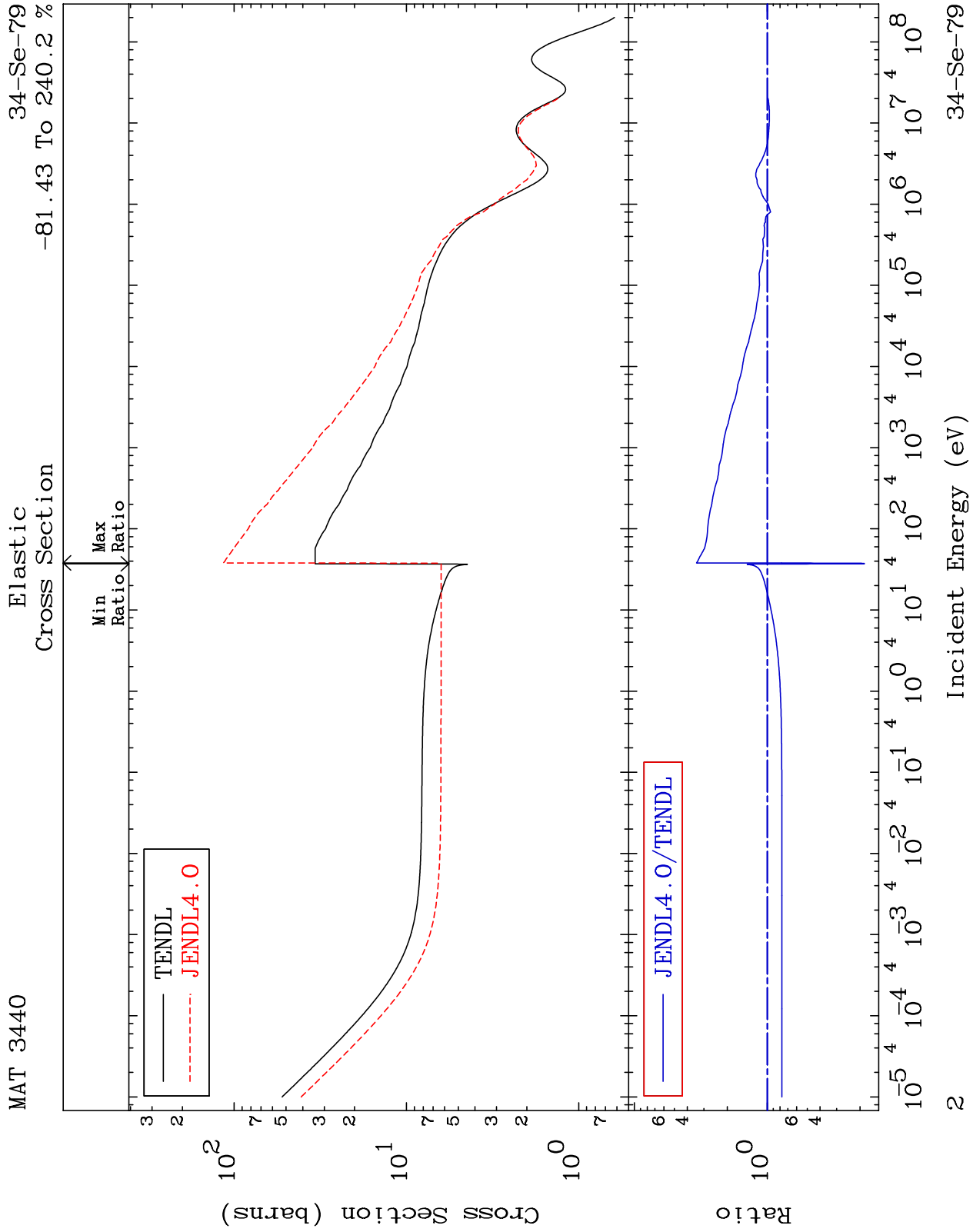
U.S.A.

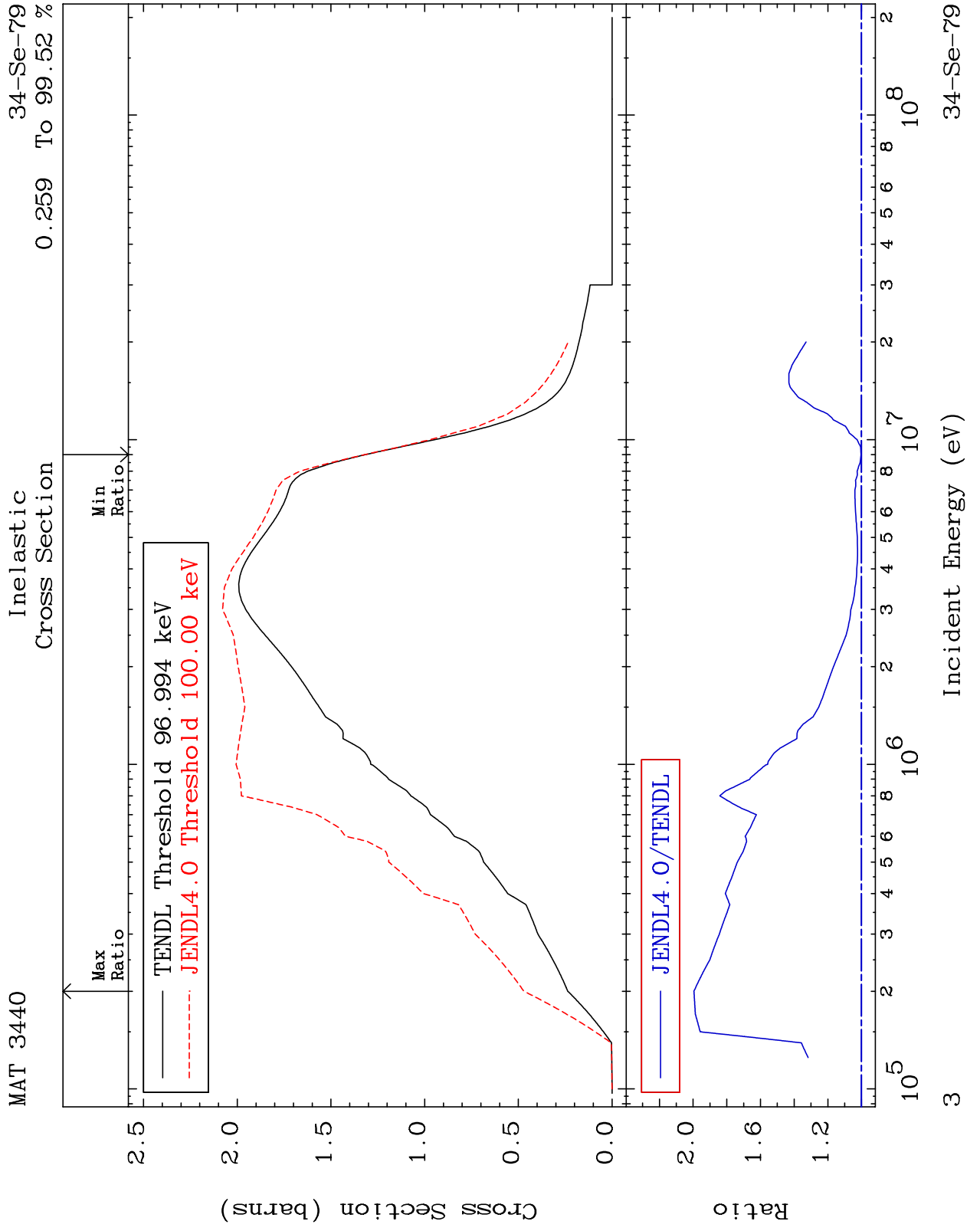
Tele: 925-443-1911

E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

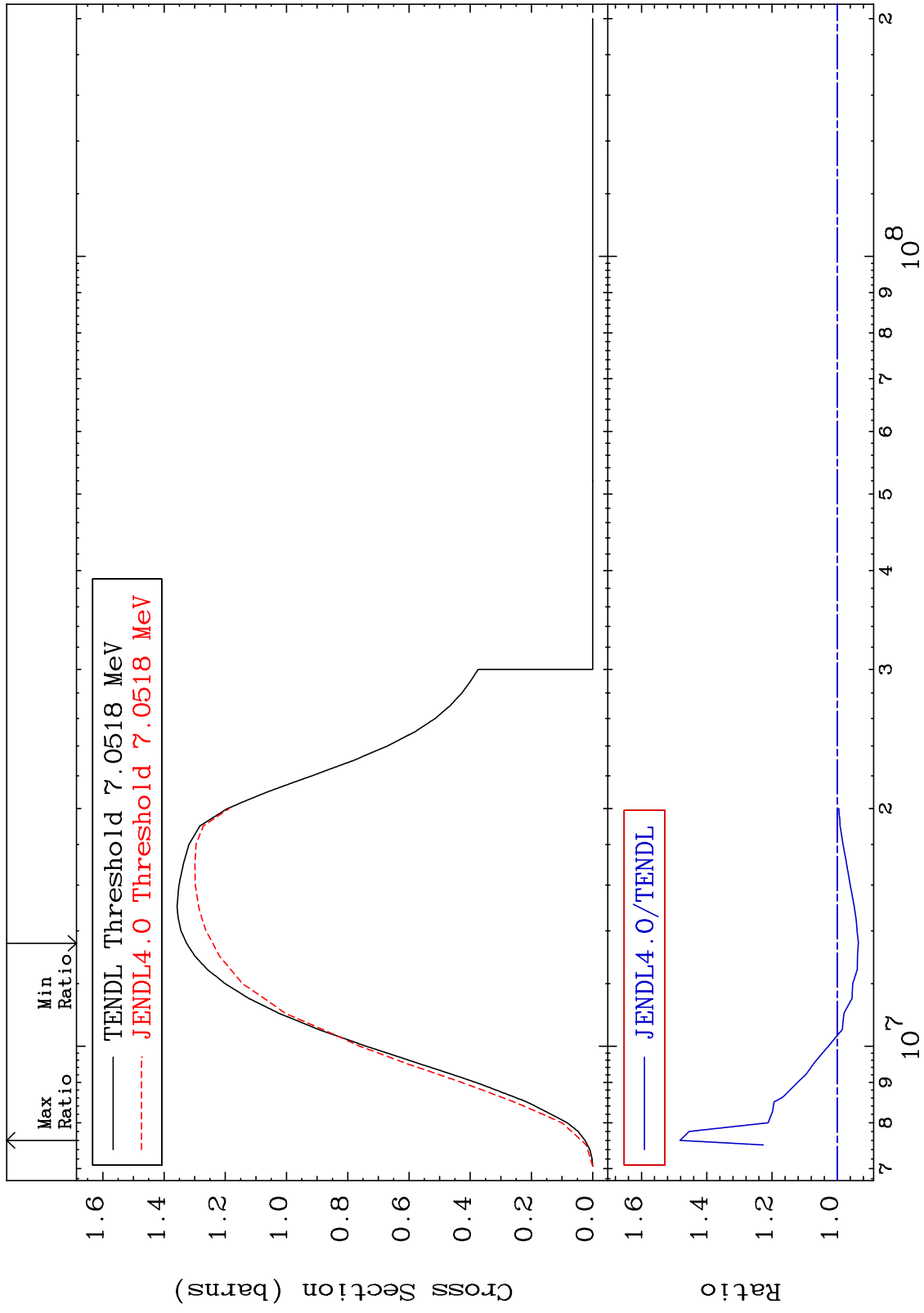
Press Mouse Button to Start



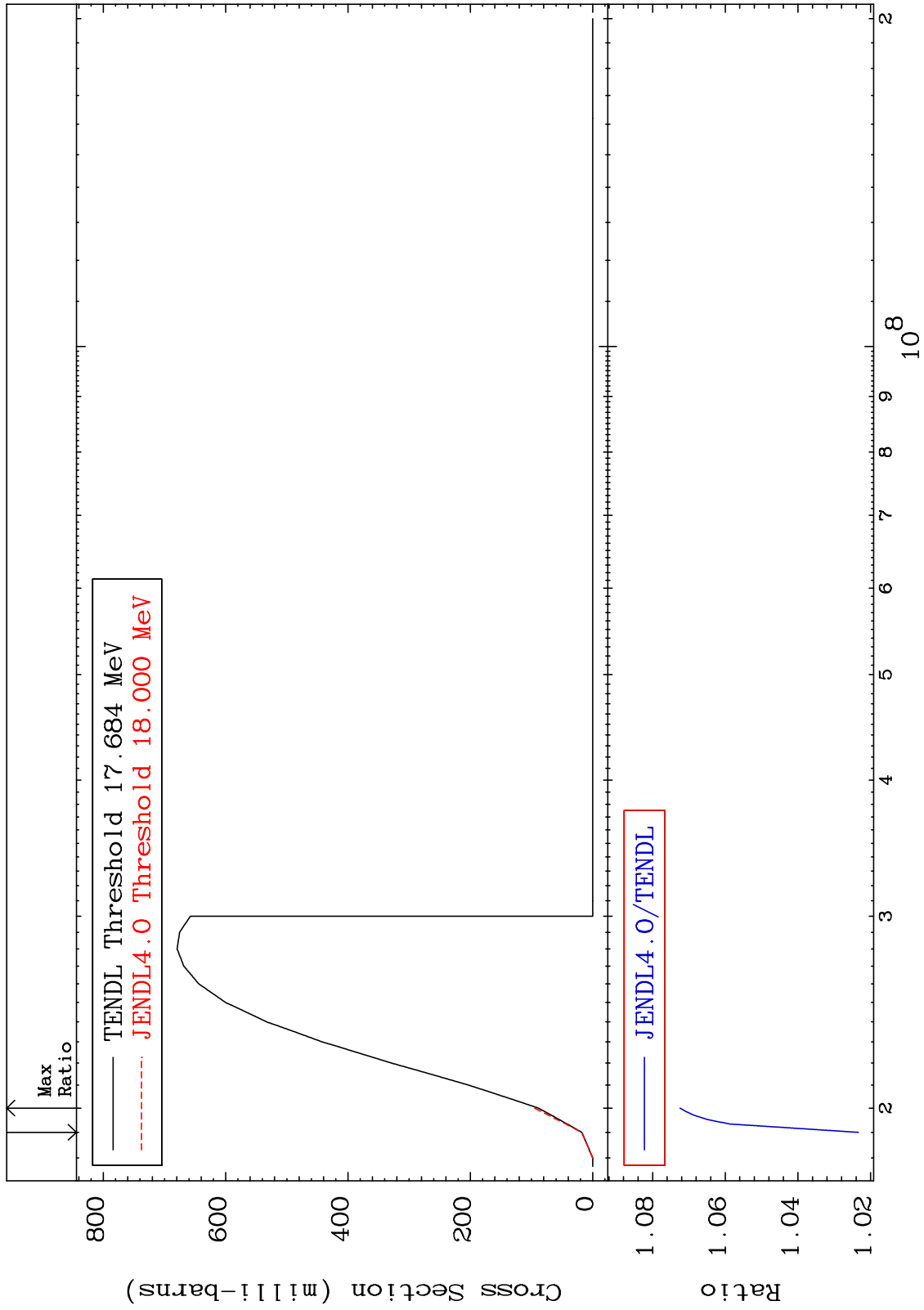




MAT 3440 (n,2n) Cross Section 34-Se-79 -6.458 To 48.19 %



MAT 3440 (n,3n) Cross Section 34-Se-79 To 7.245 %
 2.337



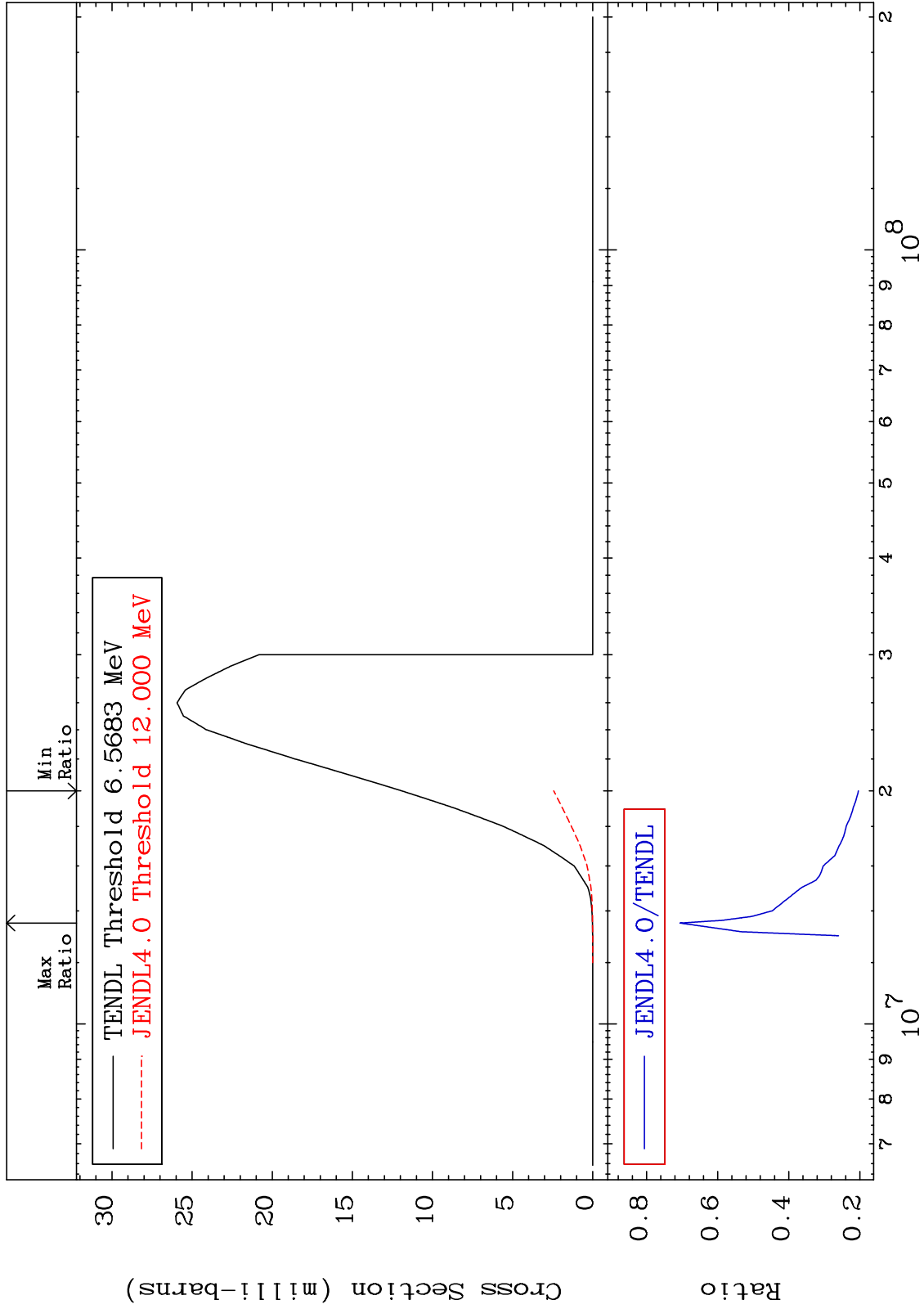
MAT 3440

$(n, n') \alpha$

34-Se-79

Cross Section

-79.60 To -29.41%

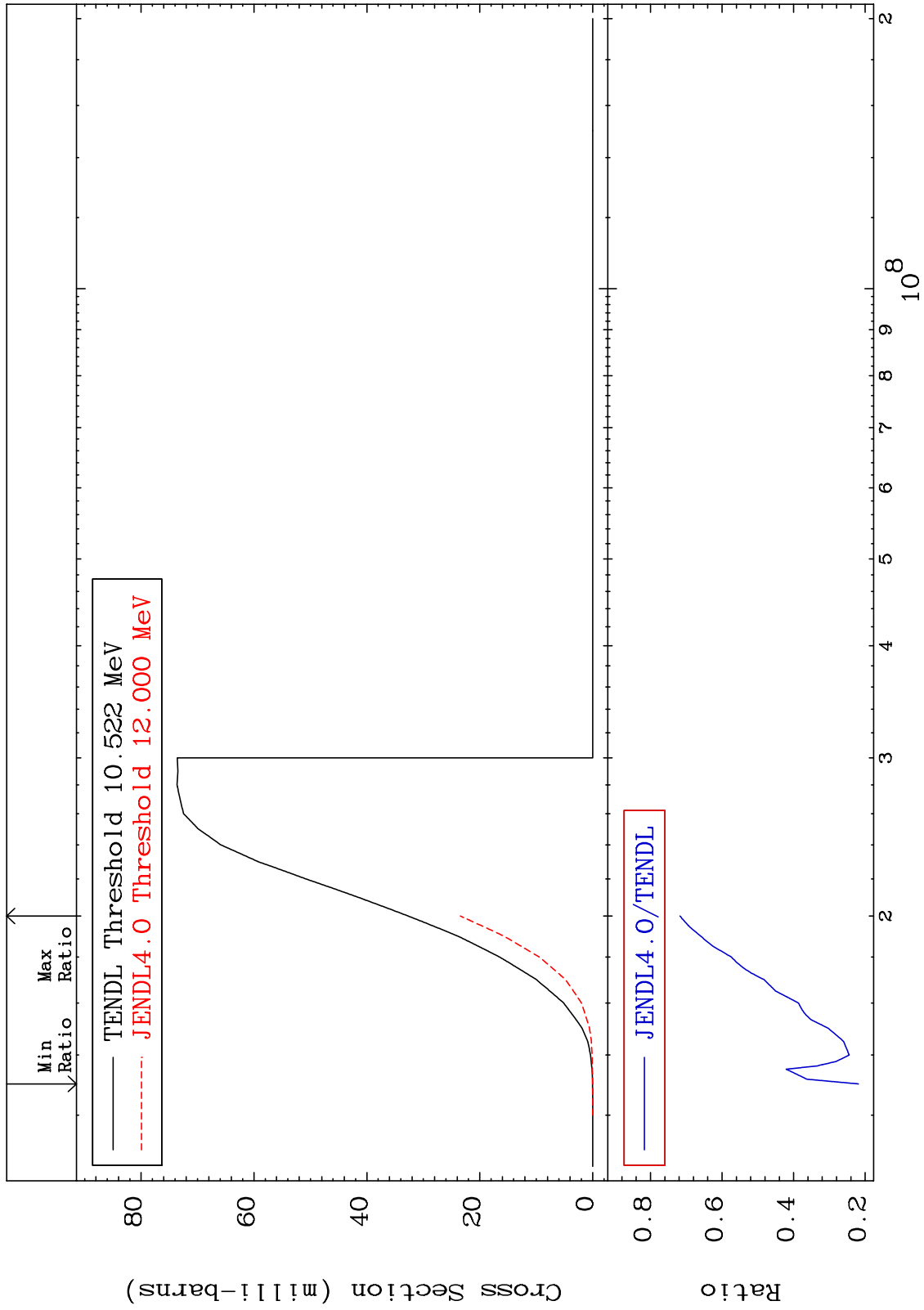


6

Incident Energy (eV)

34-Se-79

MAT 3440 (n, n') p $^{34}\text{Se-79}$
 Cross Section -78.11 To -28.25%



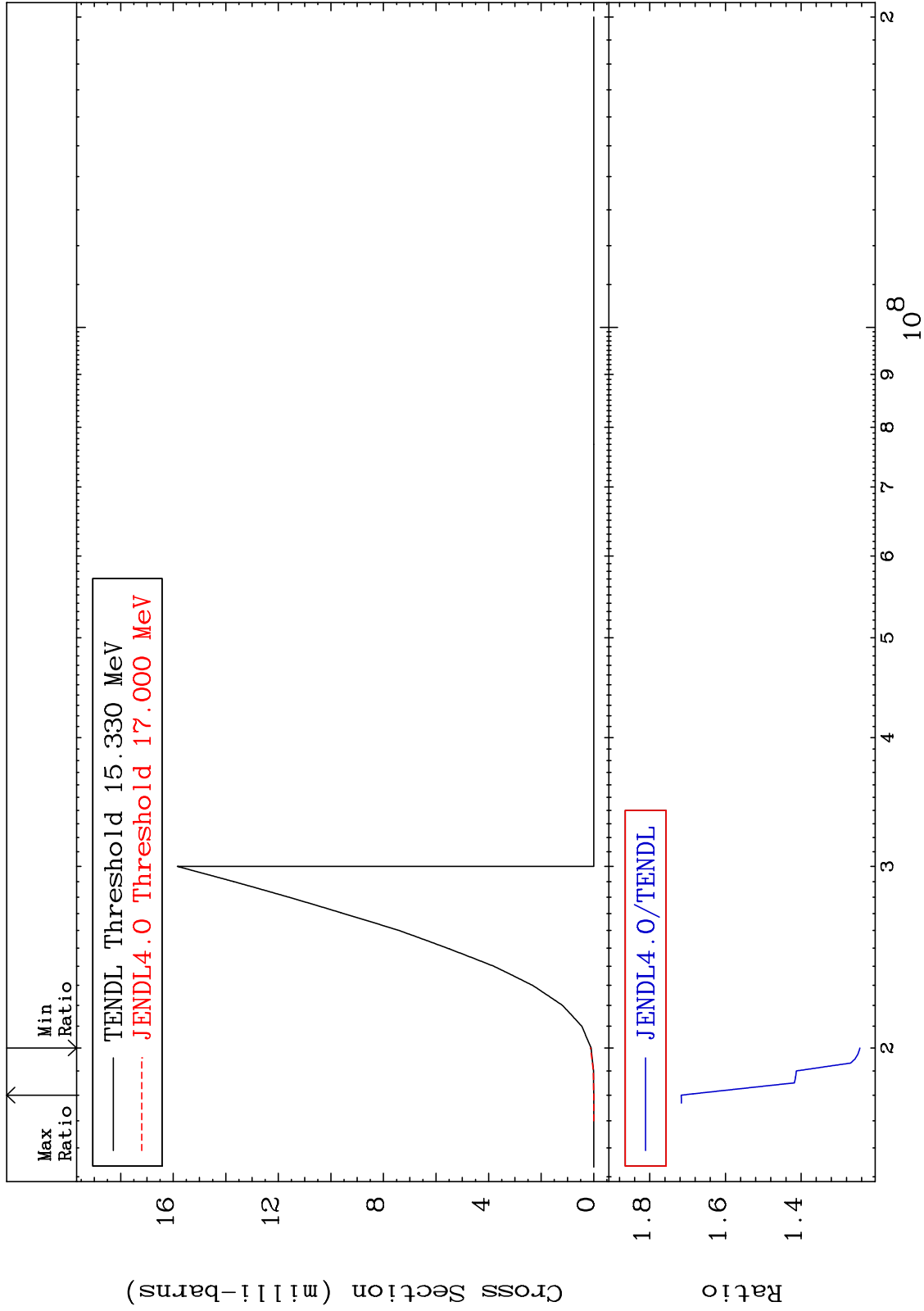
MAT 3440

(n,n') d

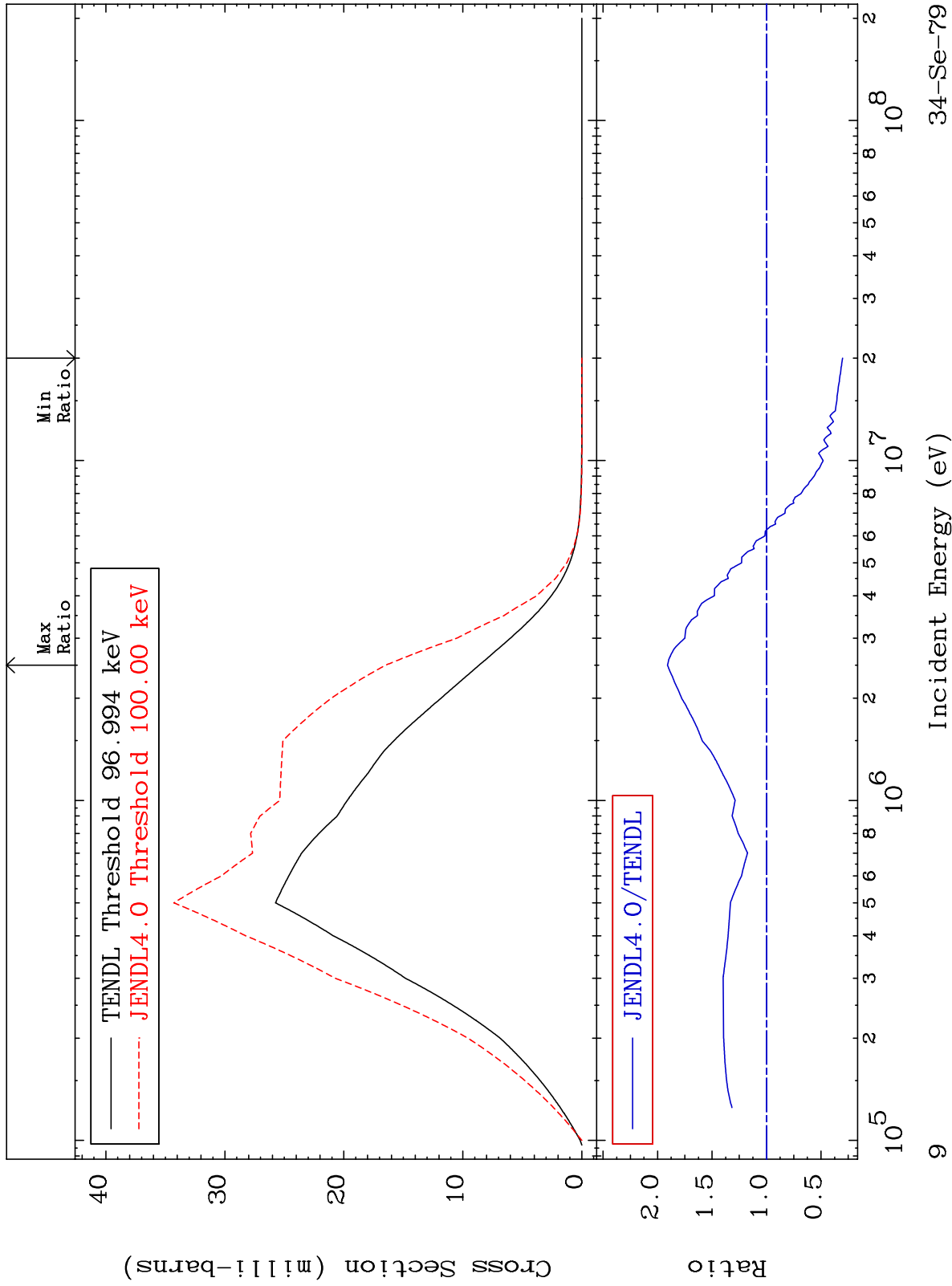
³⁴Se-79

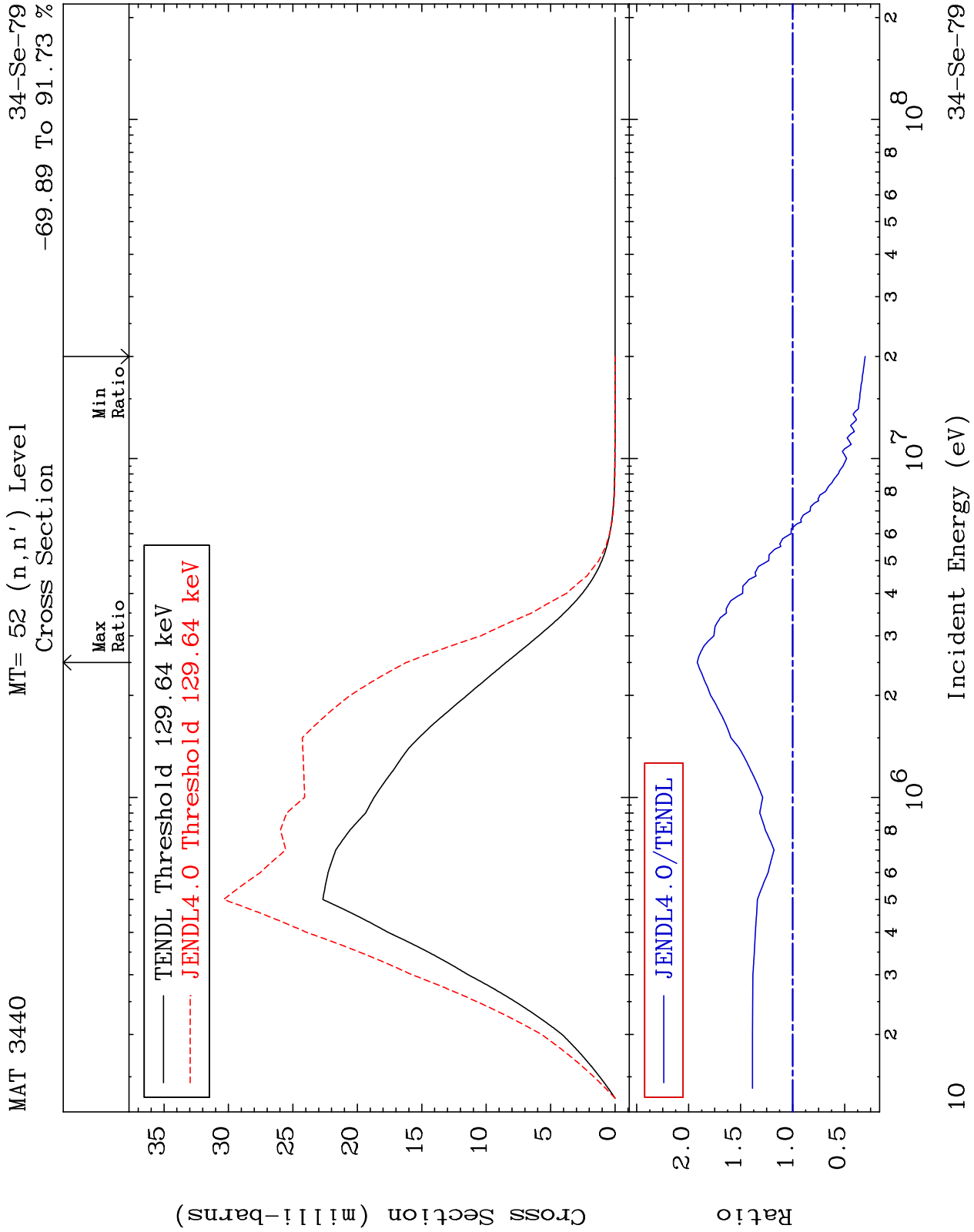
Cross Section

24.44 To 71.68 %

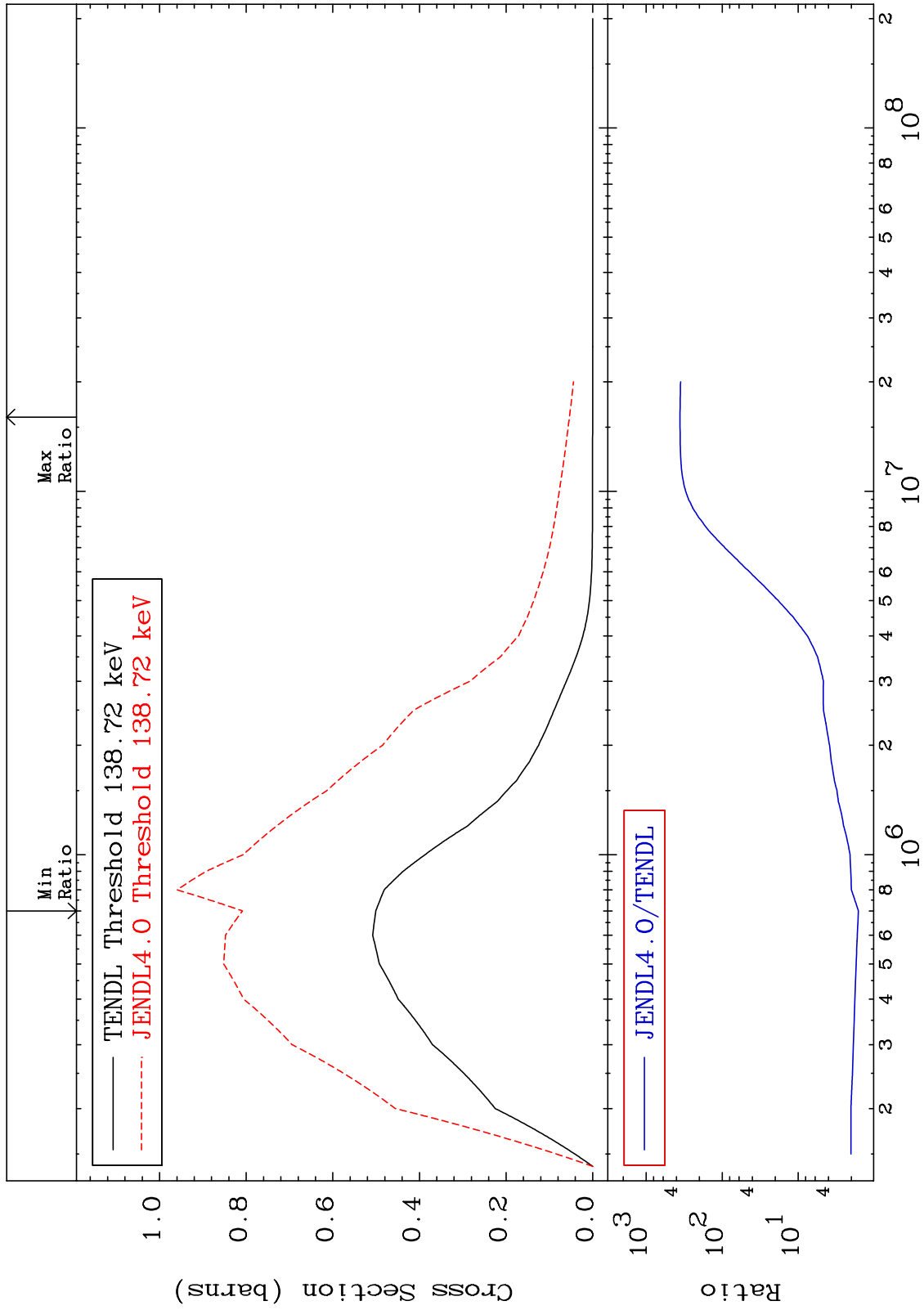


MAT 3440 MT= 51 (n,n') Level Cross Section 34-Se-79
-69.90 To 90.86 %

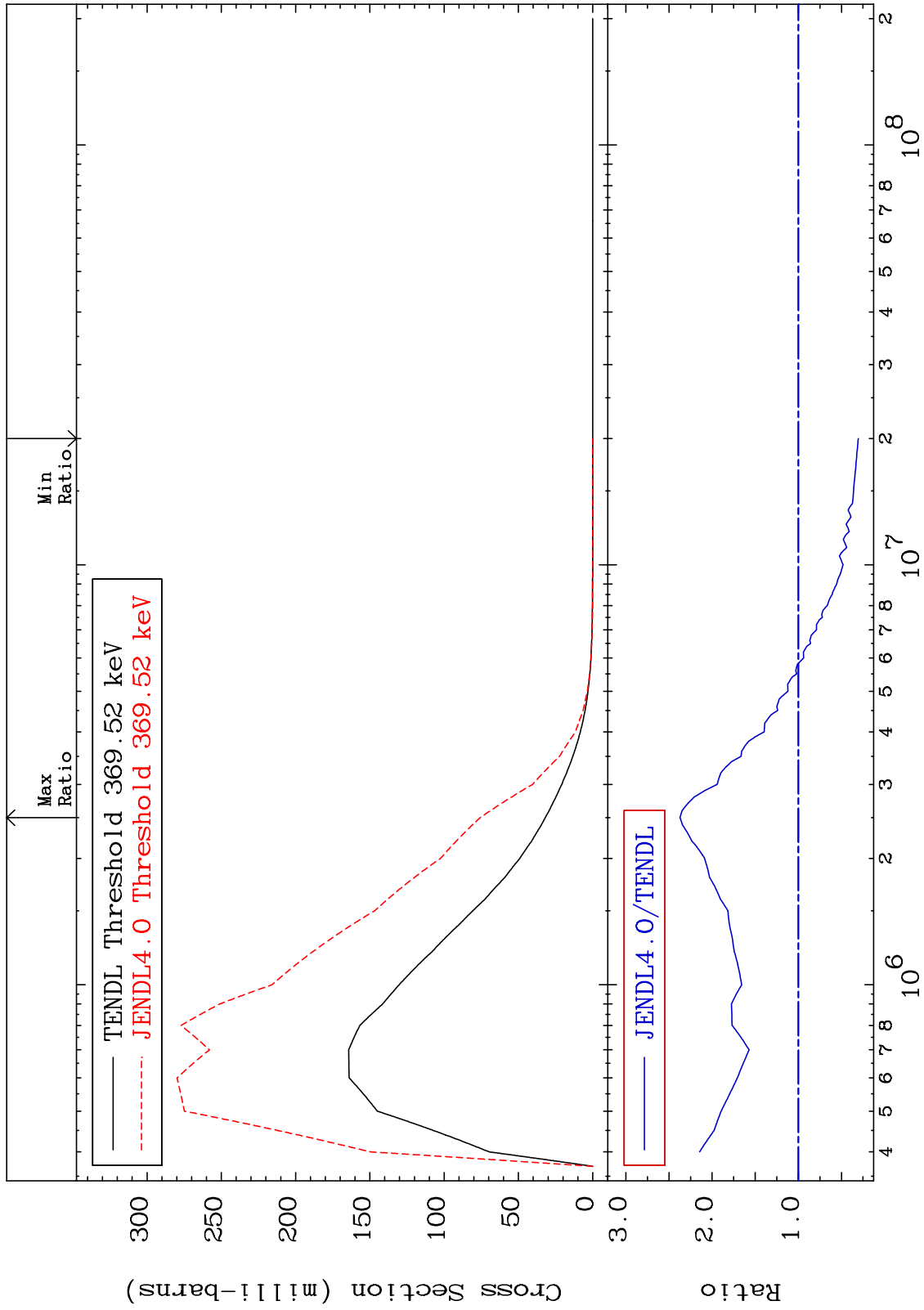




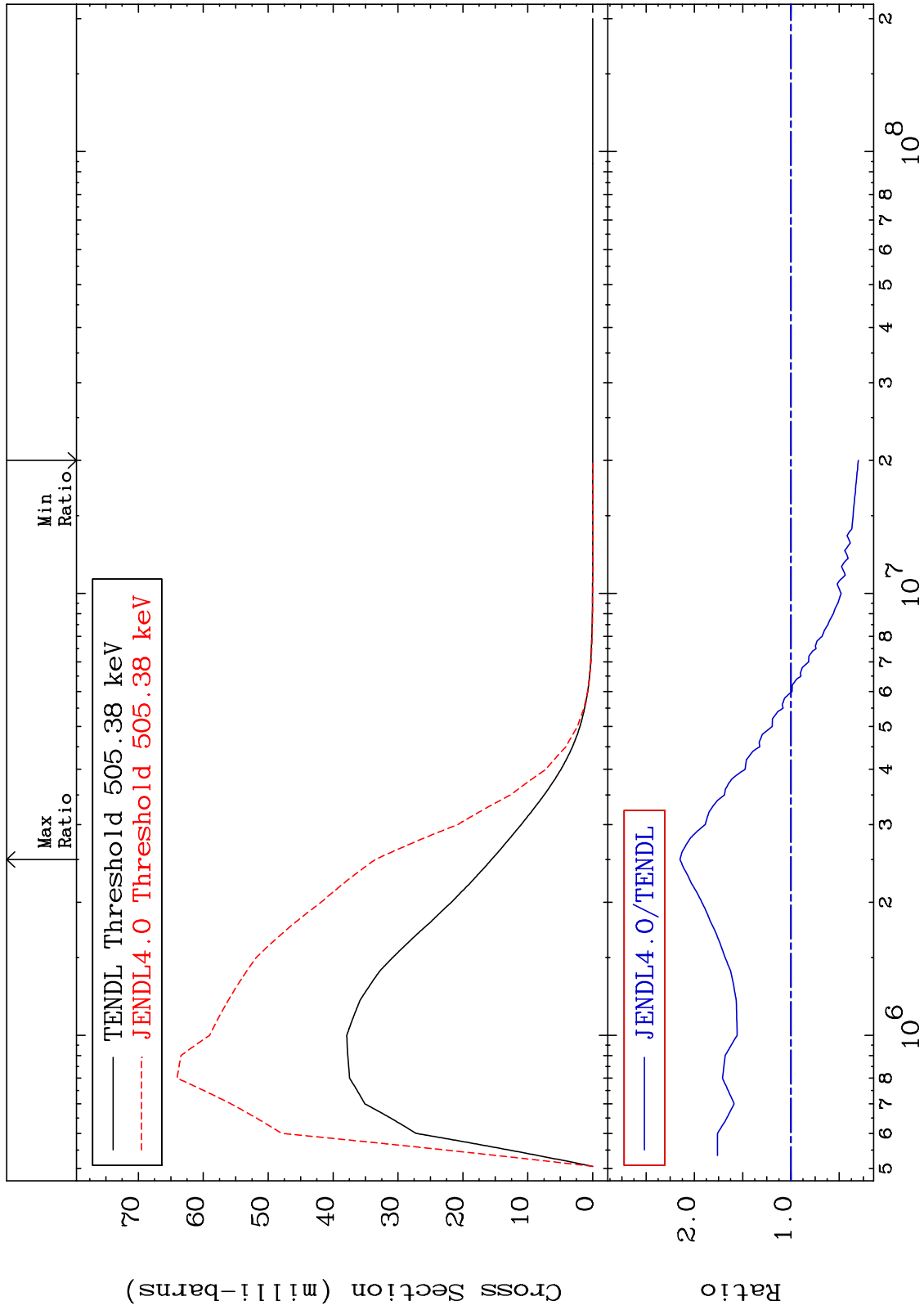
MAT 3440 MT= 53 (n,n') Level Cross Section 61.46 To 9999. % 34-Se-79

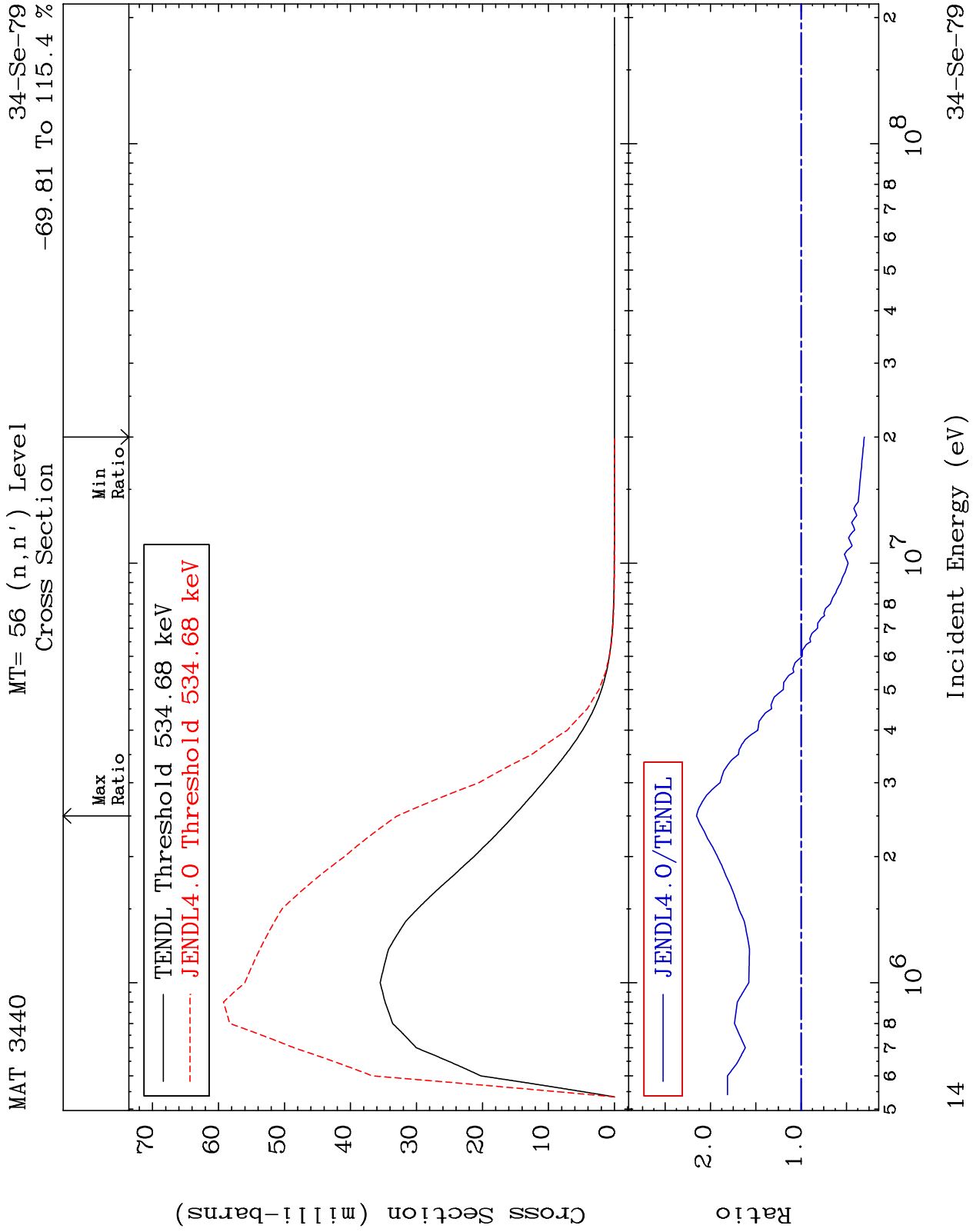


MAT 3440 MT= 54 (n,n') Level Cross Section 34-Se-79 -69.64 To 137.2 %

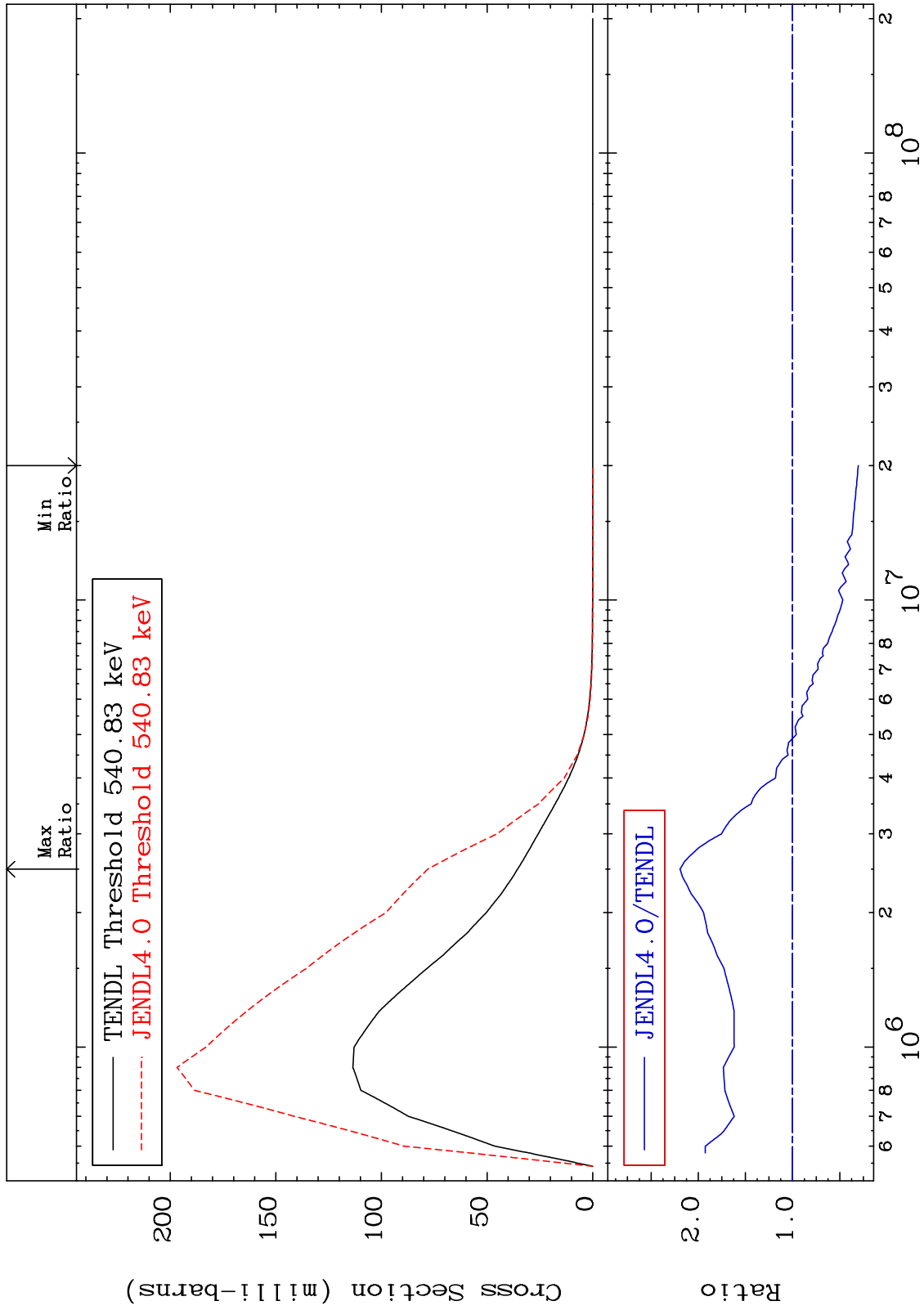


MAT 3440 MT= 55 (n,n') Level Cross Section 34-Se-79
 -69.82 To 114.9 %

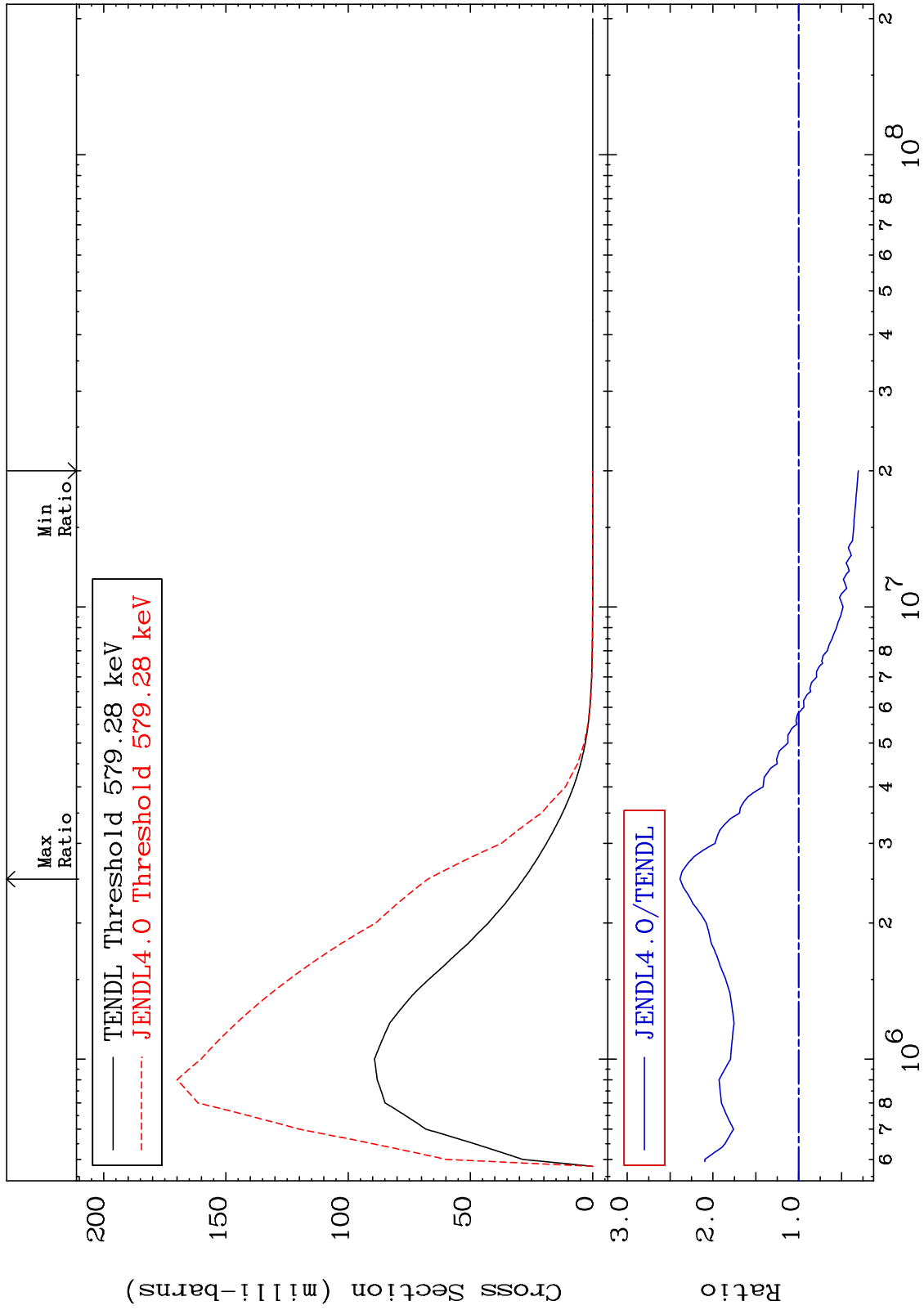




MAT 3440 MT= 57 (n,n') Level Cross Section -69.76 To 119.3 % 34-Se-79

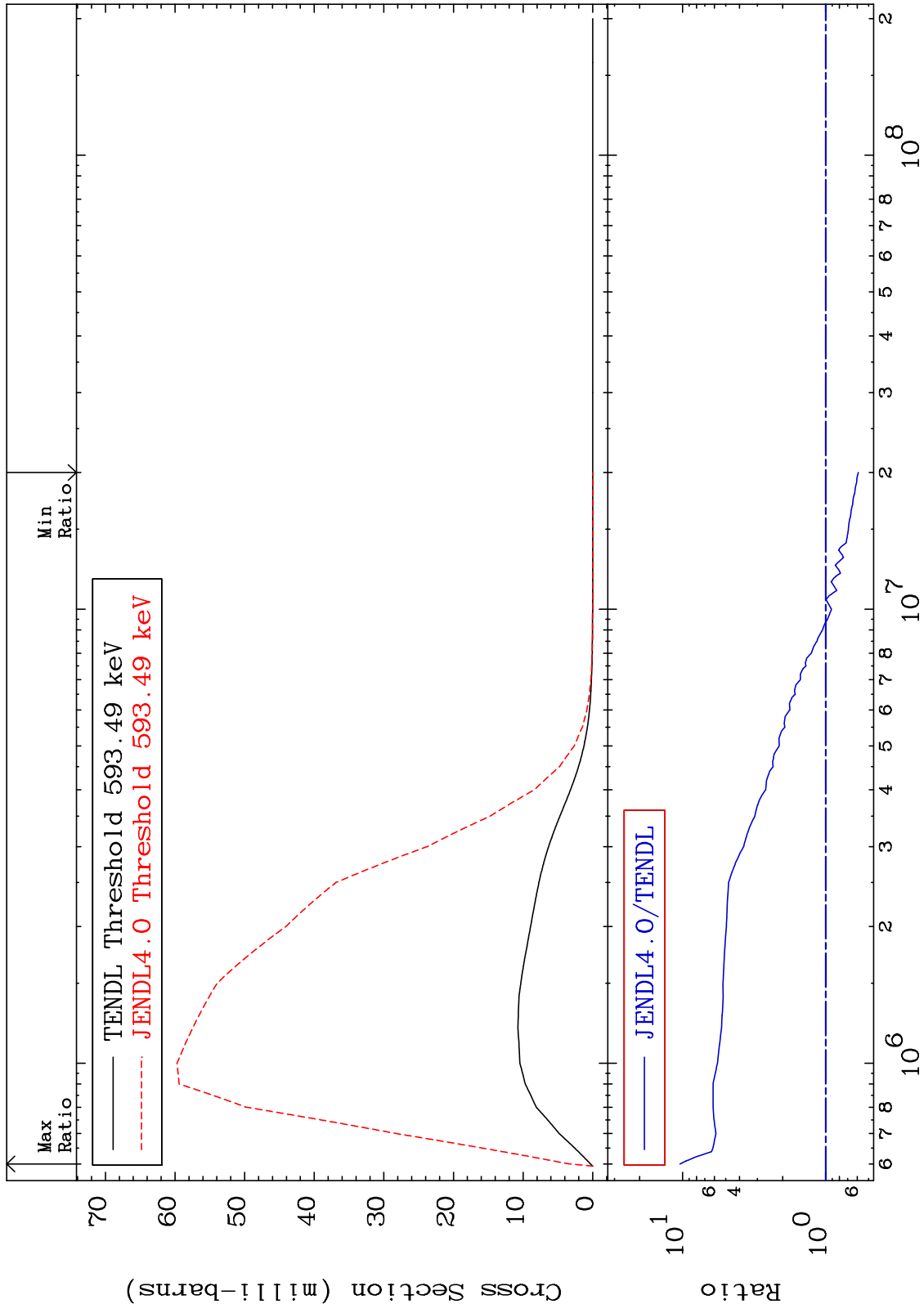


MAT 3440 MT= 58 (n,n') Level Cross Section -69.65 To 138.4 % 34-Se-79



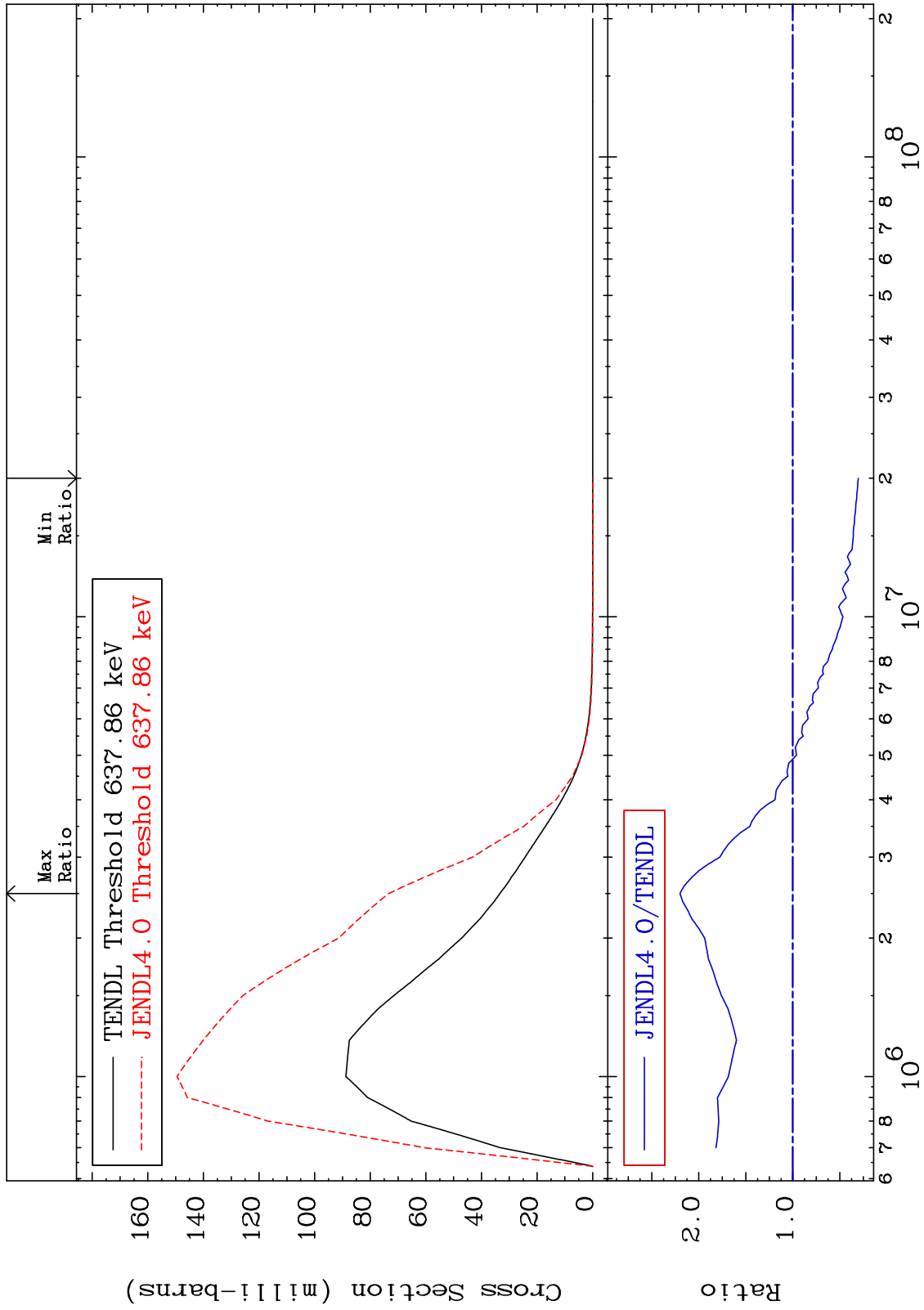
16 Incident Energy (eV) 34-Se-79

MAT 3440 MT= 59 (n,n') Level Cross Section -41.01 To 943.4 % 34-Se-79

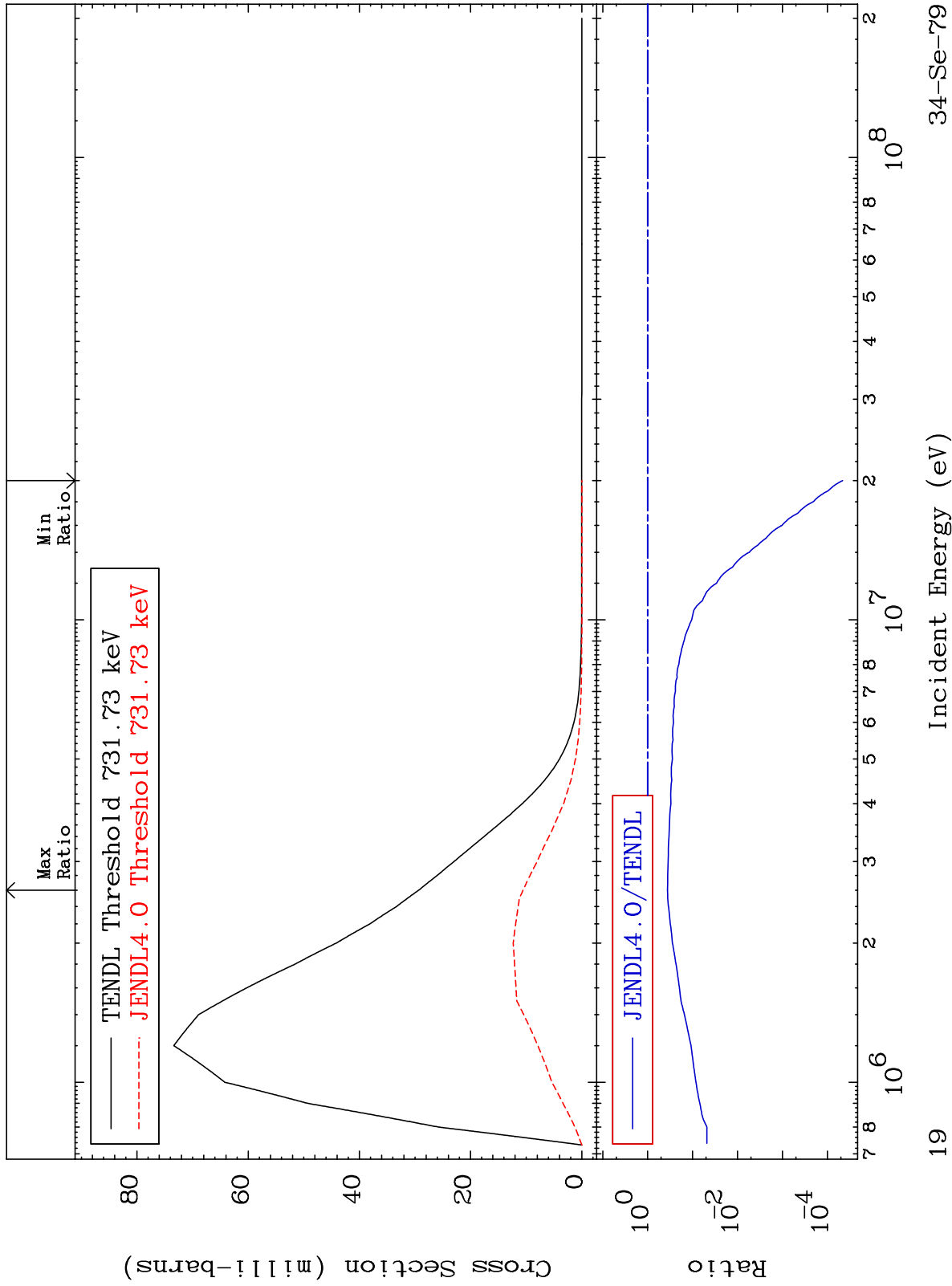


17 34-Se-79

MAT 3440 MT= 60 (n,n') Level Cross Section 34-Se-79 -69.77 To 119.9 %

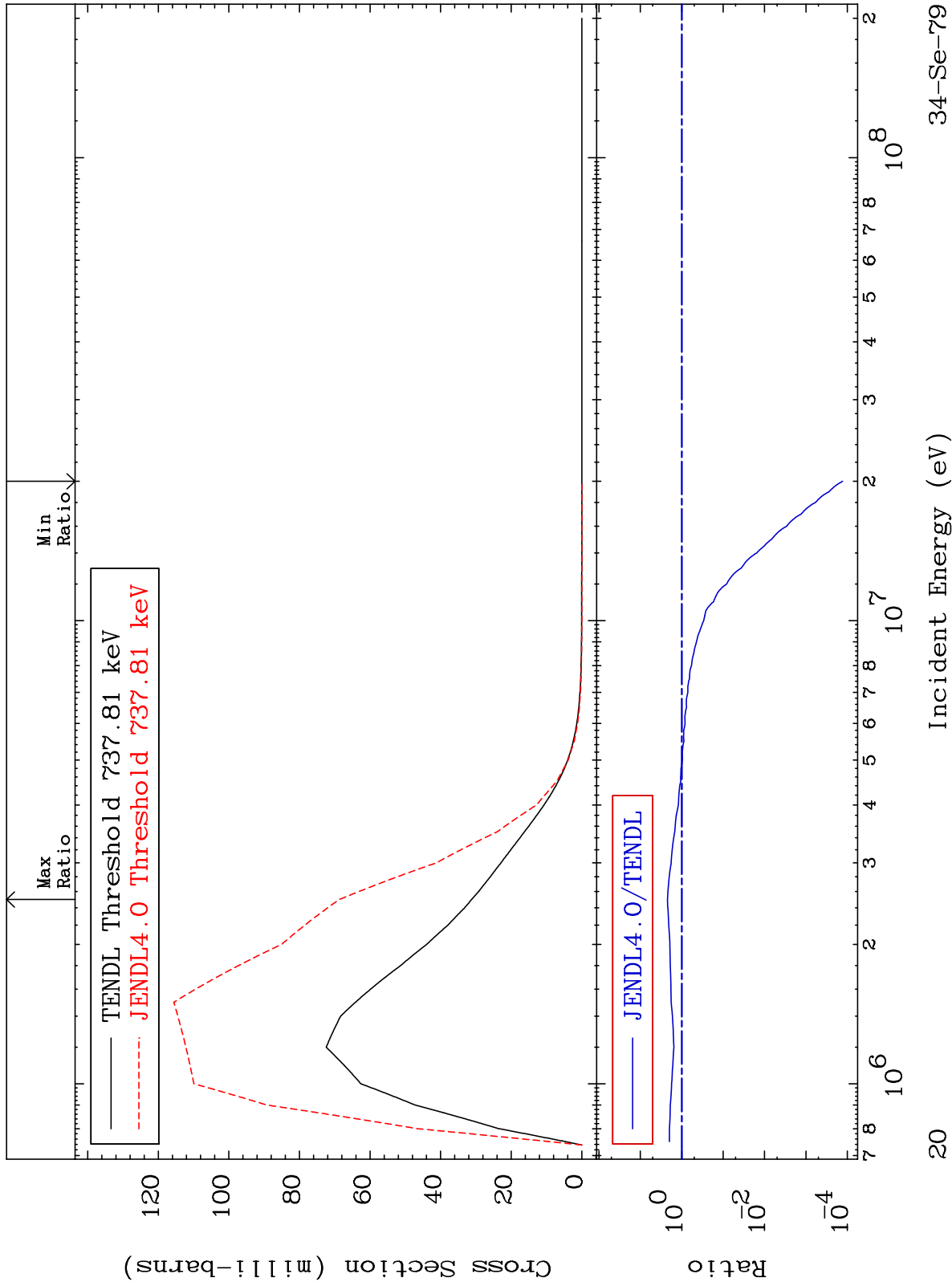


MAT 3440 MT= 61 (n,n') Level Cross Section 34-Se-79
 -100.0 To -63.97%



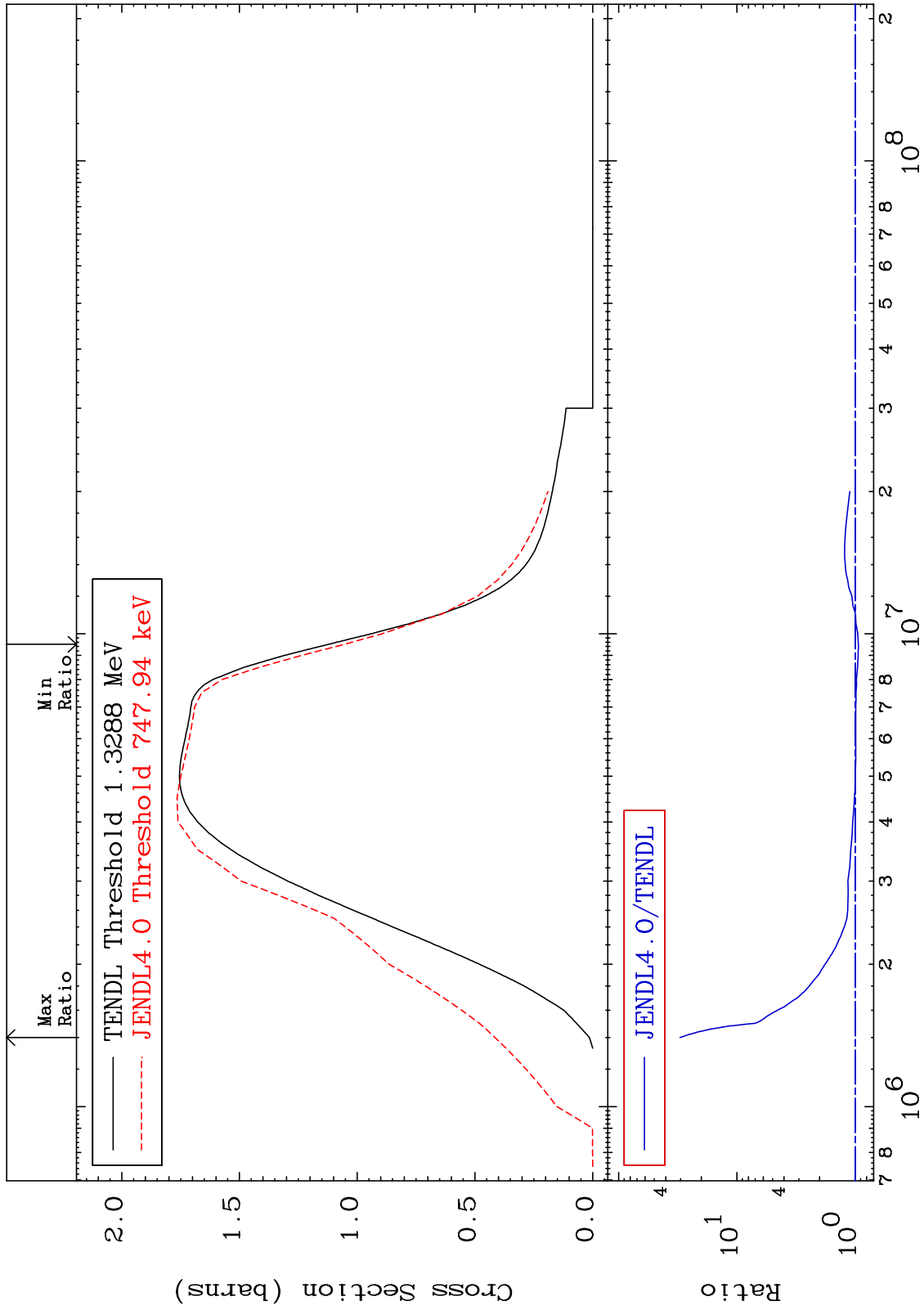
19 Incident Energy (eV) 34-Se-79

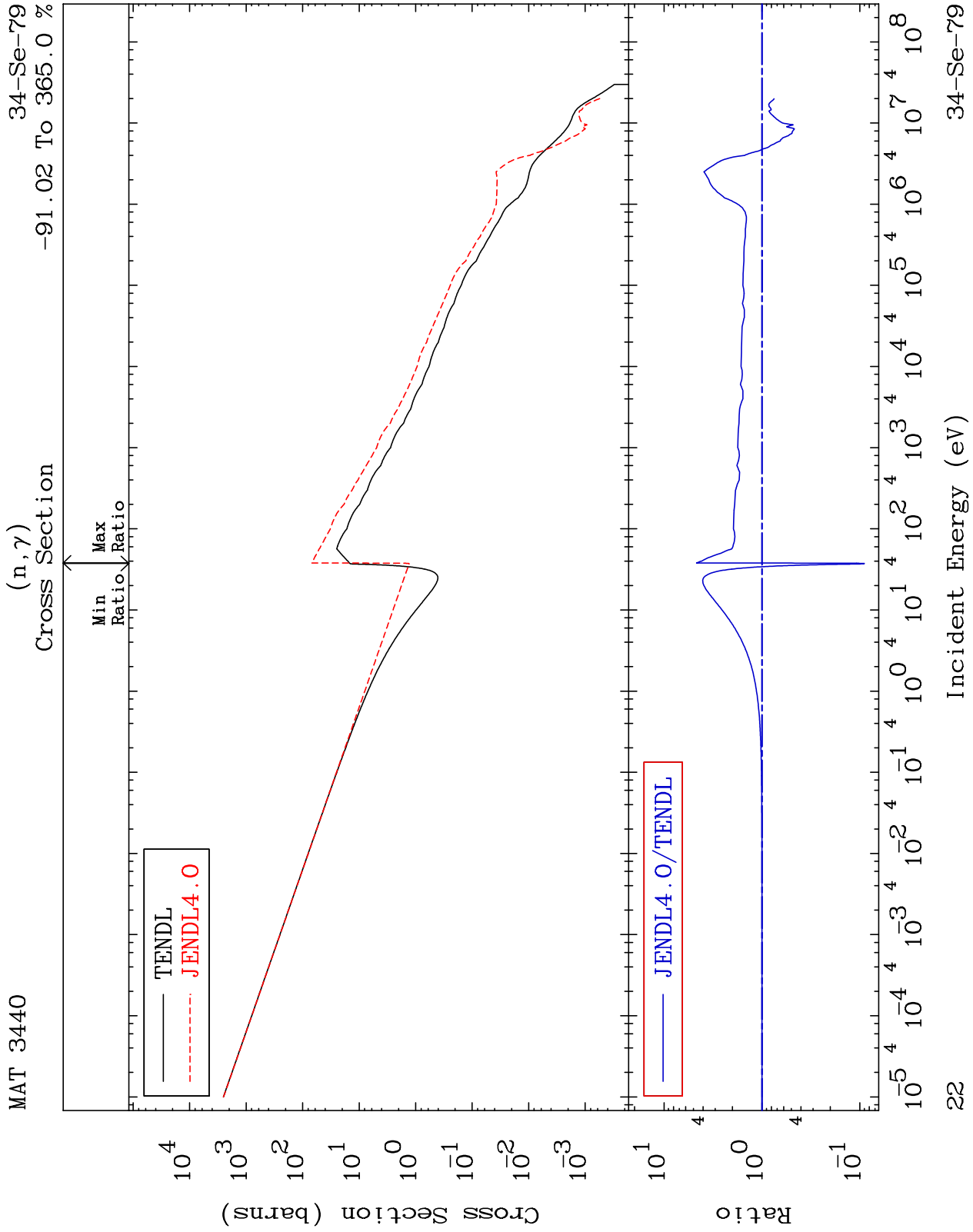
MAT 3440 MT= 62 (n,n') Level Cross Section 34-Se-79
 -99.99 To 120.2 %



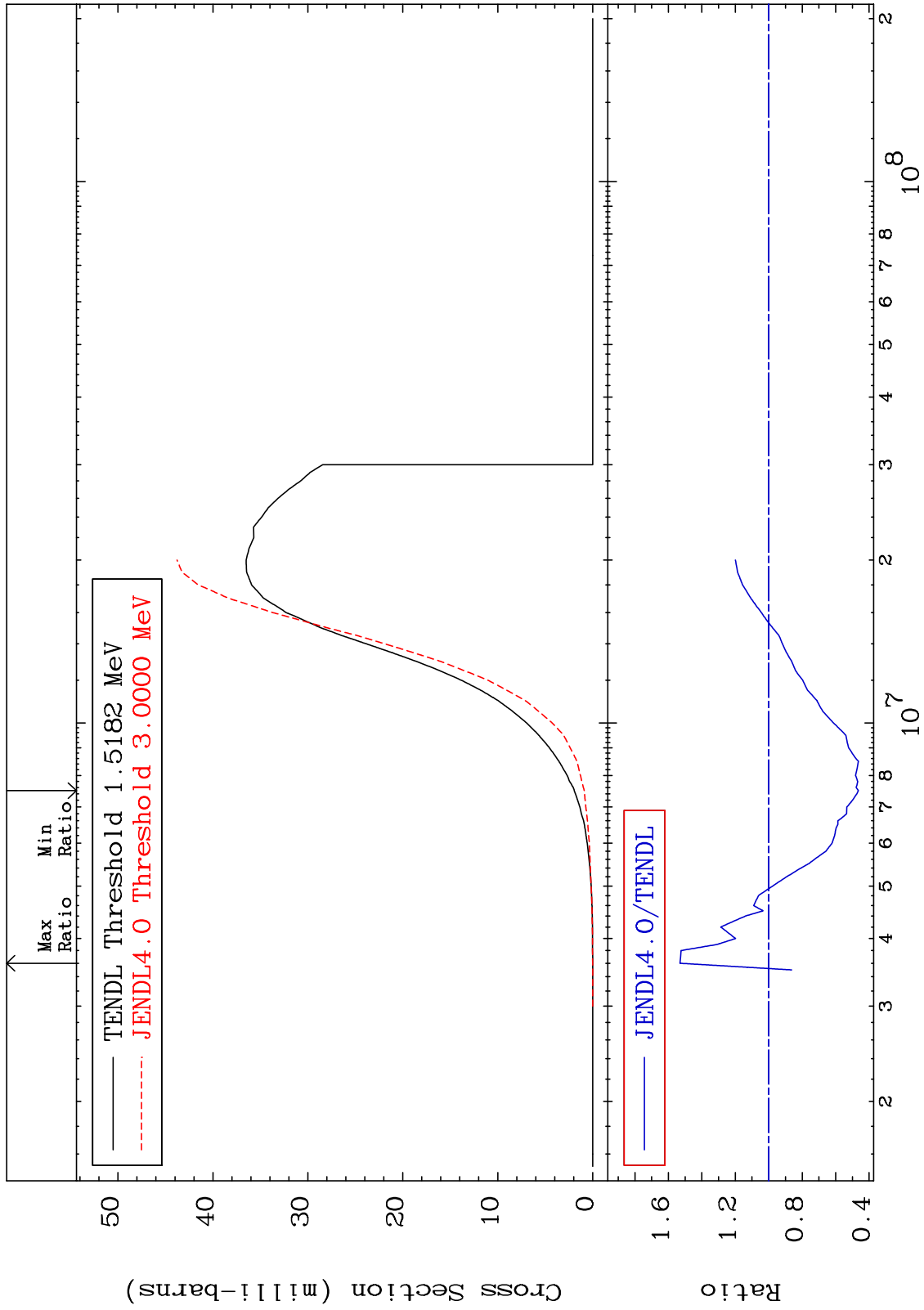
20 Incident Energy (eV) 34-Se-79

MAT 3440 (n, n') Continuum Cross Section 34-Se-79 -6.021 To 2931. %





MAT 3440 (n,p) Cross Section 34-Se-79 -53.60 To 53.05 %



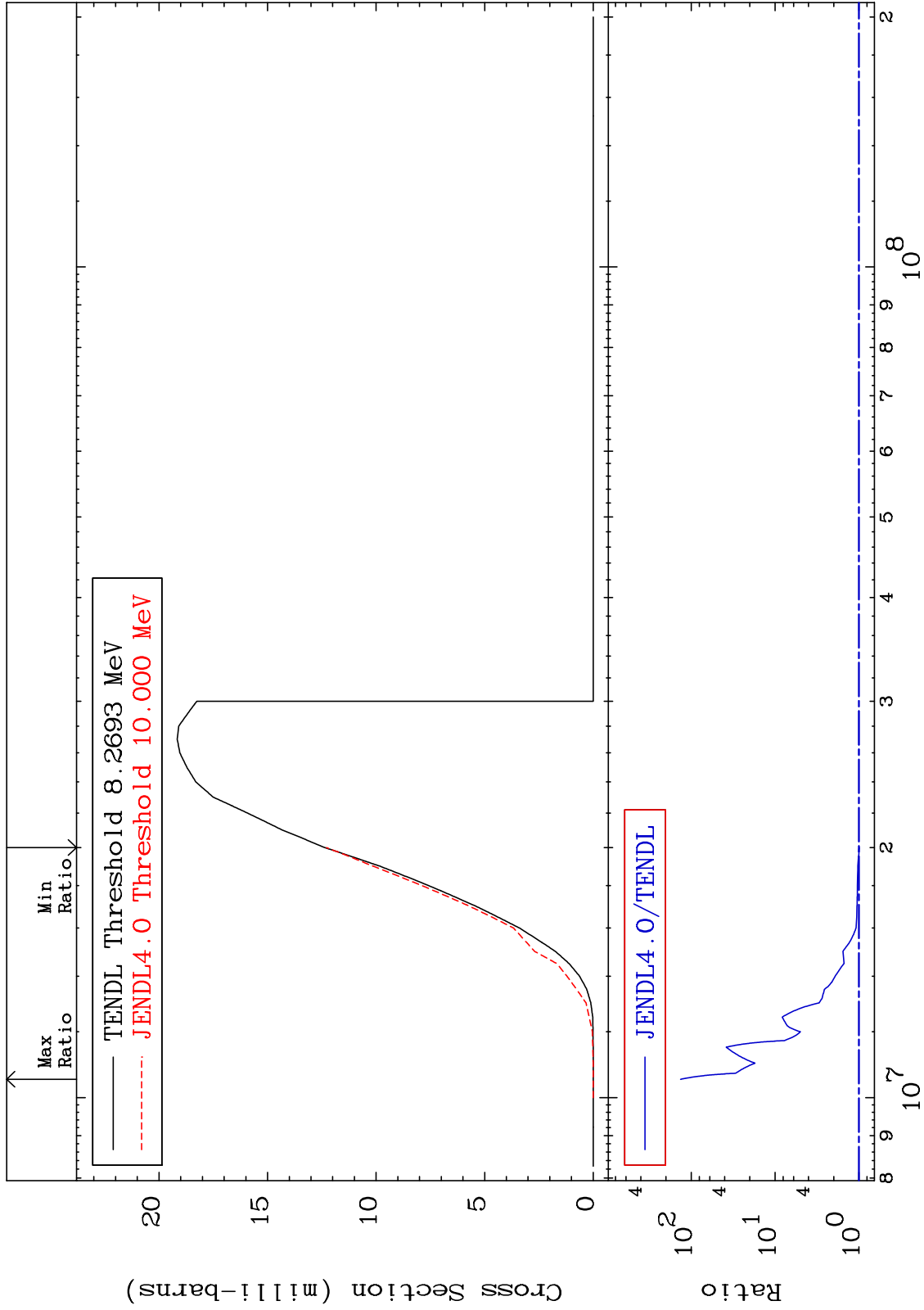
MAT 3440

(n,d)

³⁴Se-79

Cross Section

-0.631 To 9999. %



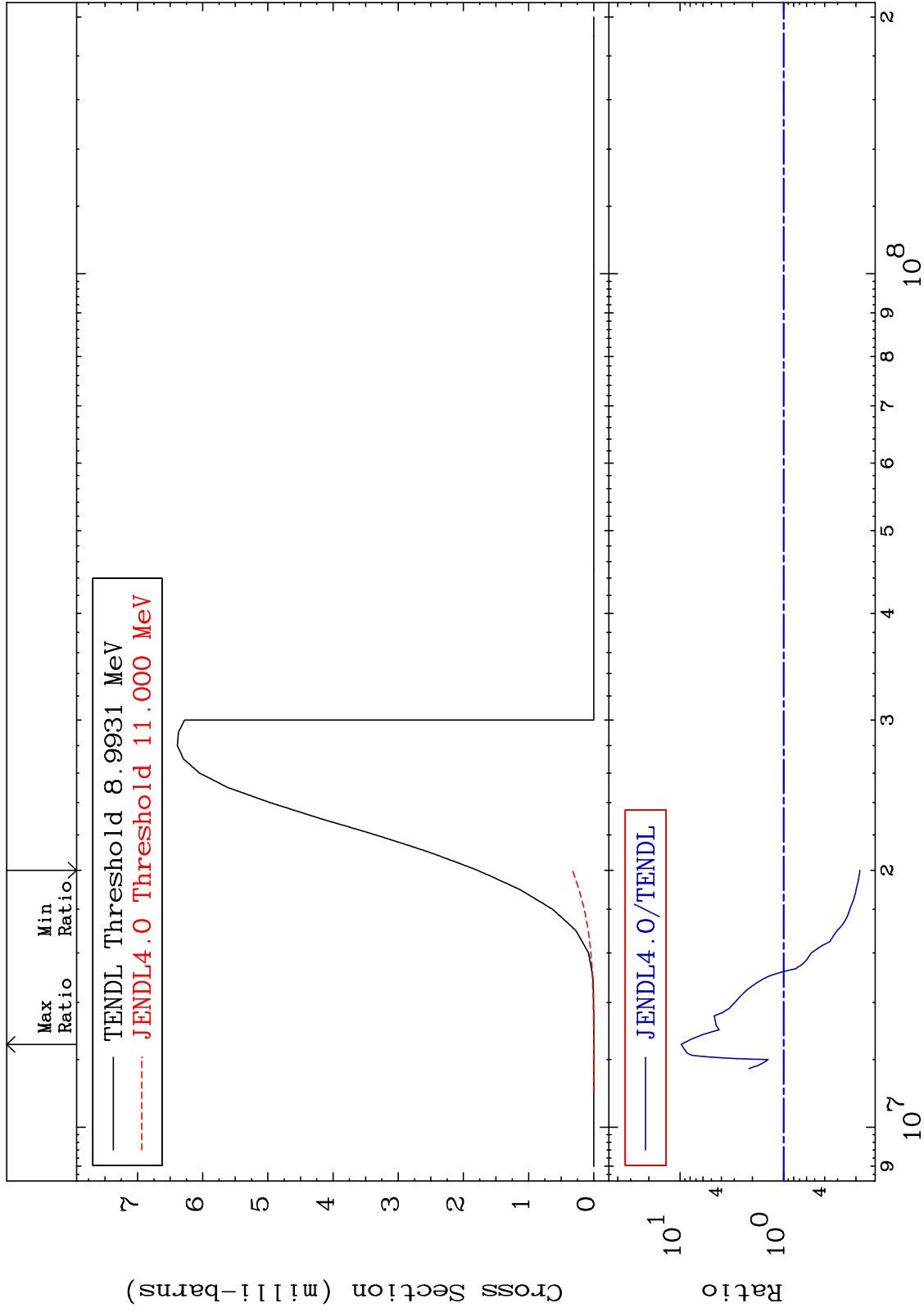
MAT 3440

(n, t)

³⁴Se-79

Cross Section

-81.71 To 874.6 %



25

Incident Energy (eV)

³⁴Se-79

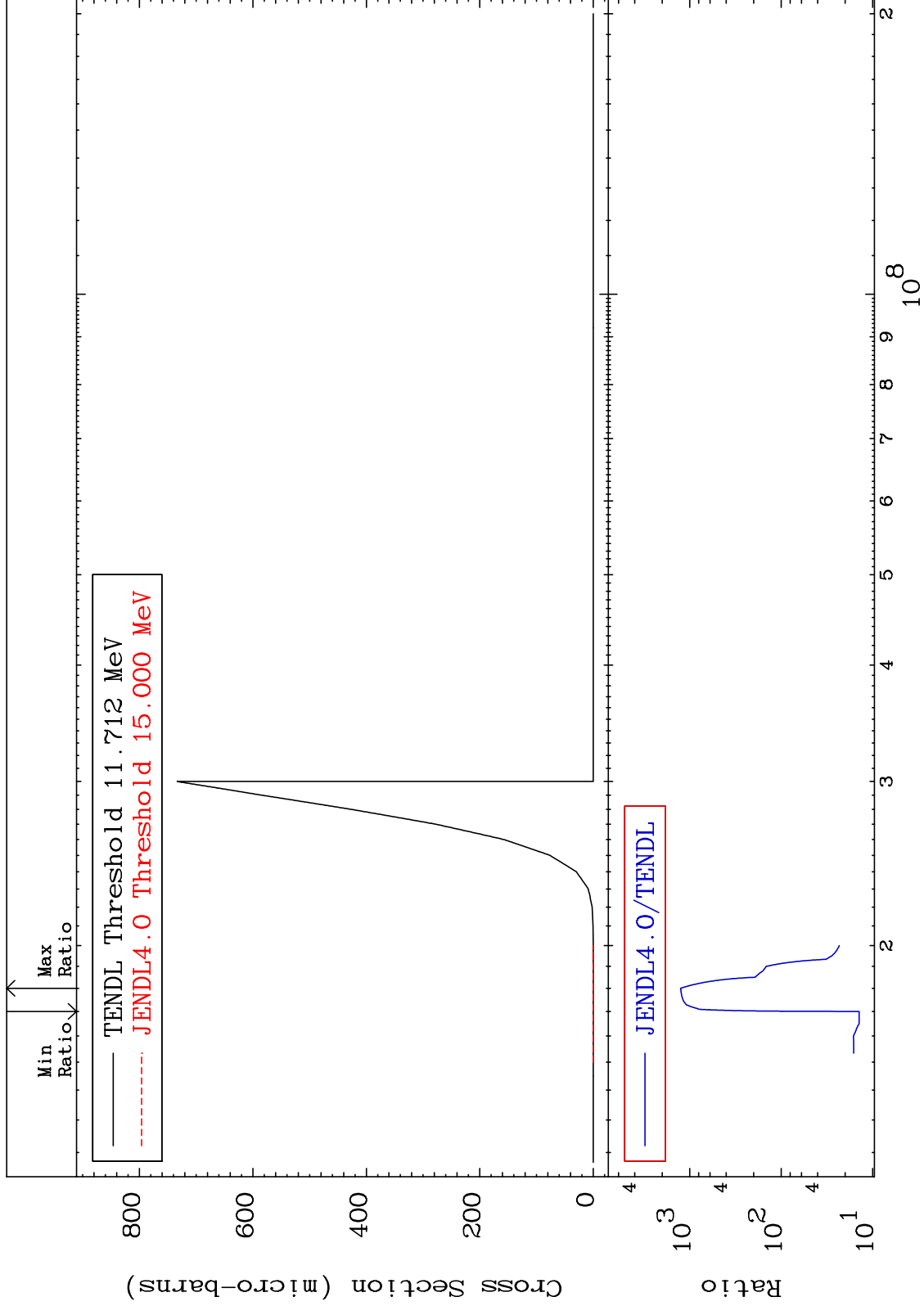
MAT 3440

(n, He-3)

34-Se-79

Cross Section

1303. To 9999. %



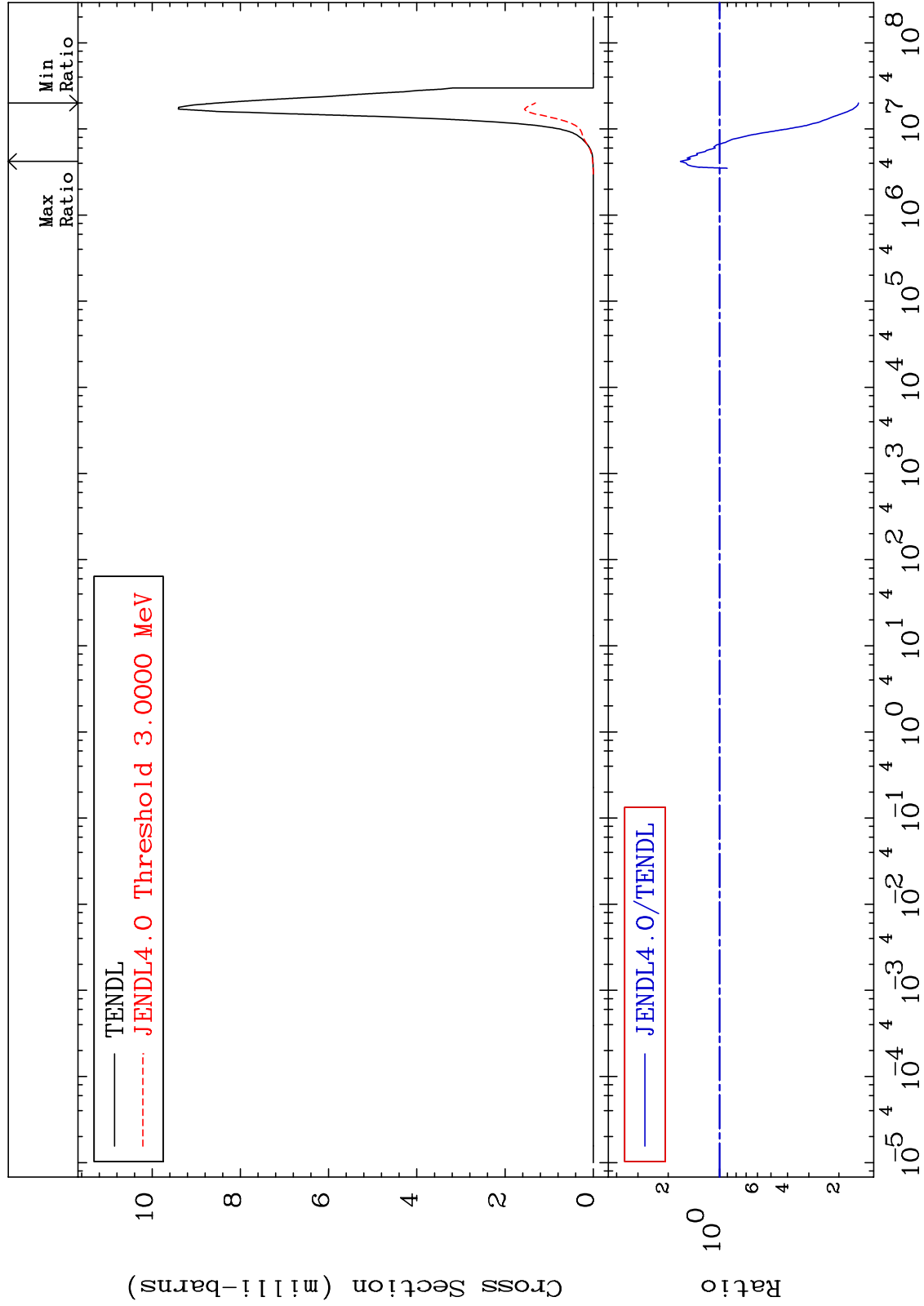
MAT 3440

(n, α)

³⁴Se-79

Cross Section

-84.63 To 69.39 %



27

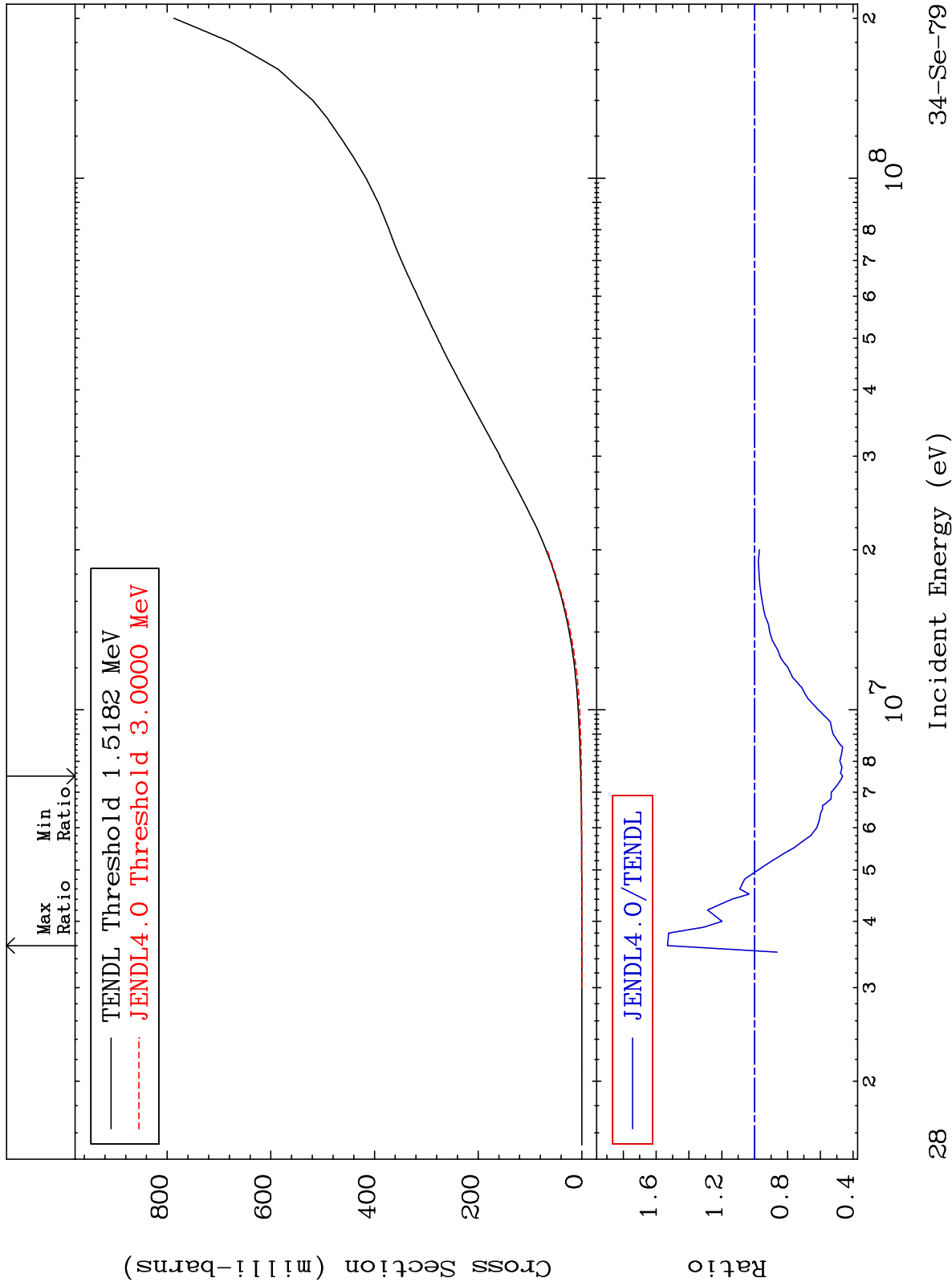
Incident Energy (eV)

³⁴Se-79

MAT 3440

Hydrogen Production Cross Section

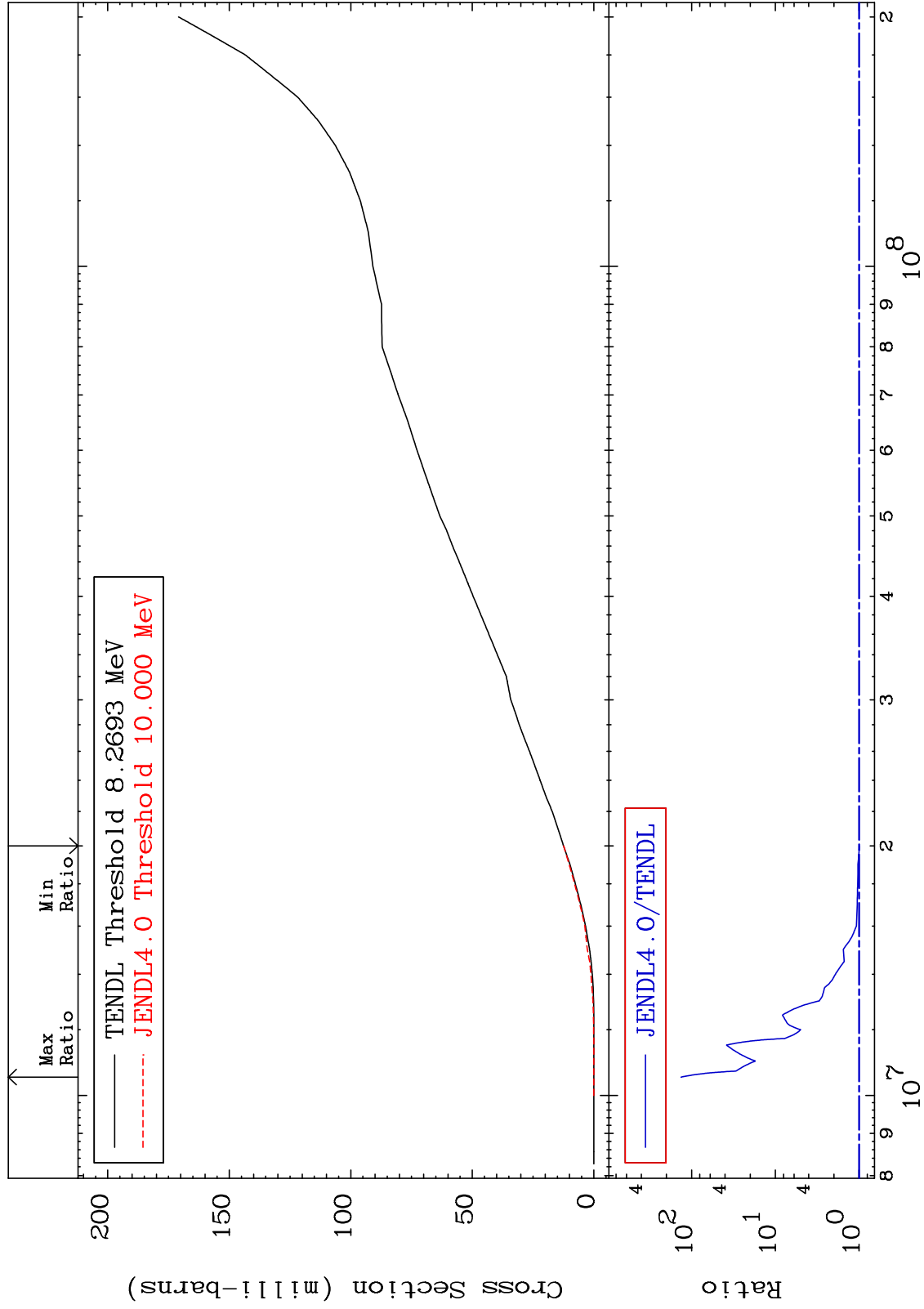
³⁴Se-79
-53.60 To 53.05 %



MAT 3440

Deuterium Production
Cross Section

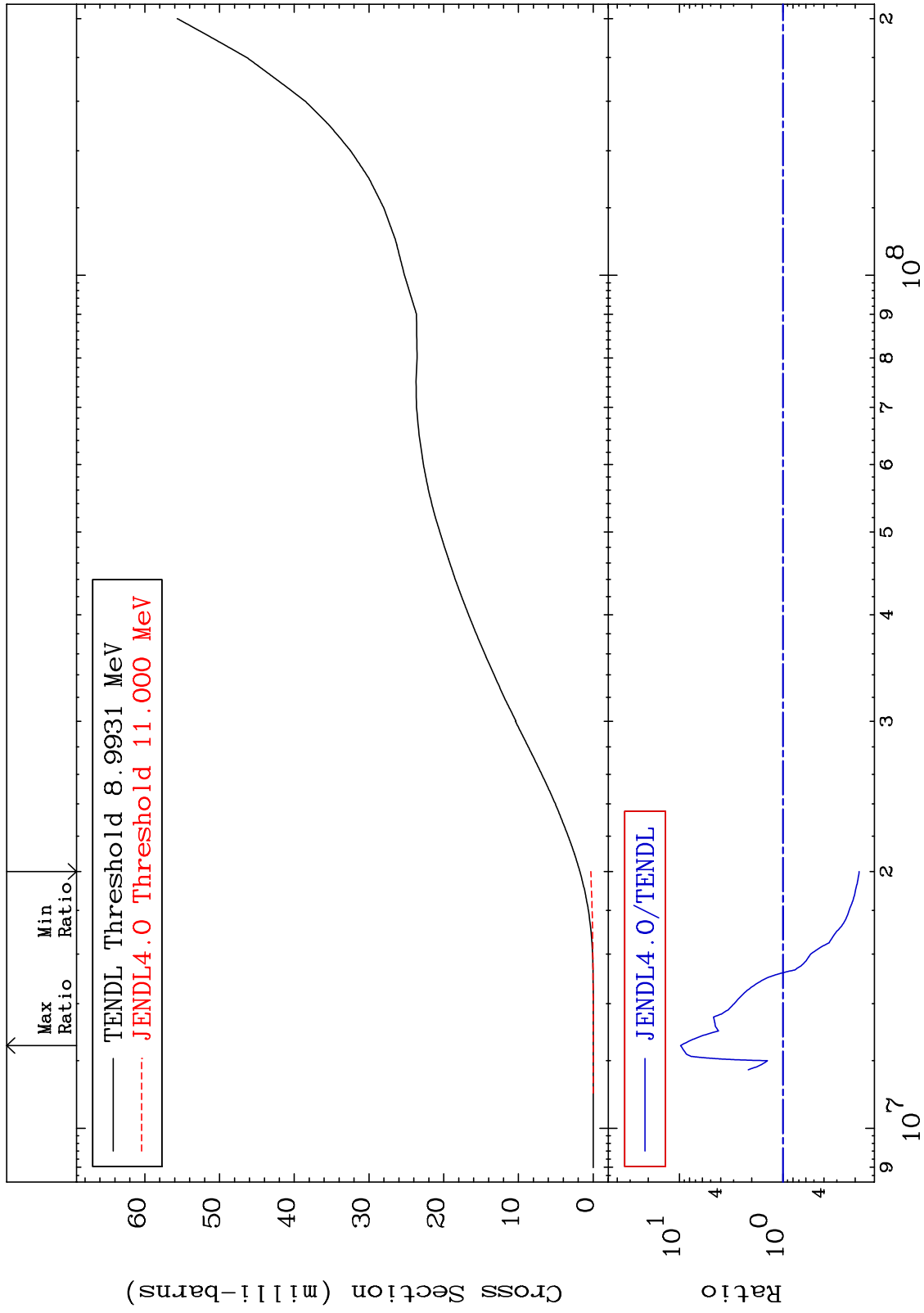
³⁴Se-79
-0.429 To 9999. %



MAT 3440

Tritium Production
Cross Section

³⁴Se-79
-81.71 To 874.6 %



Incident Energy (eV)

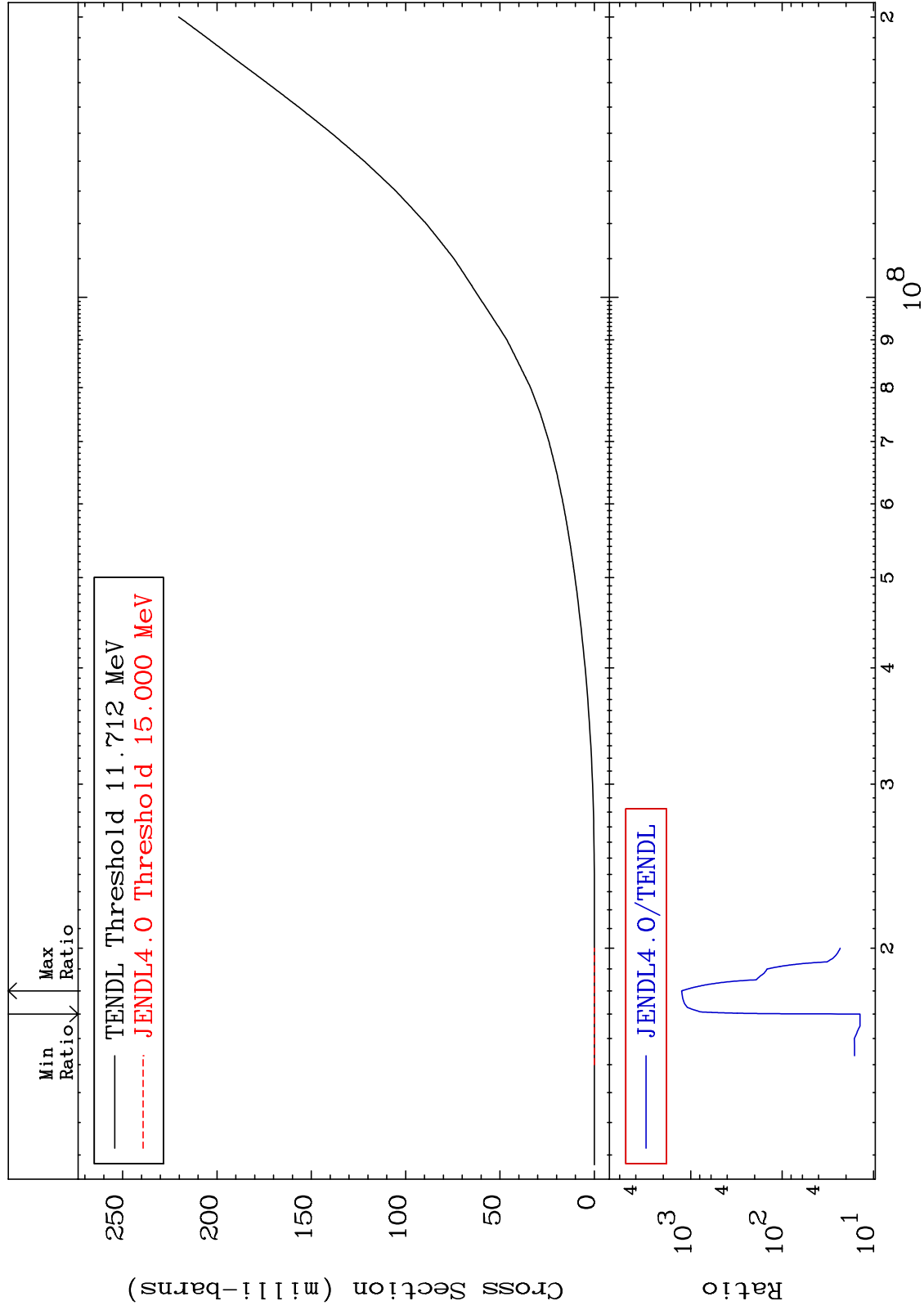
³⁴Se-79

30

MAT 3440

He-3 Production
Cross Section

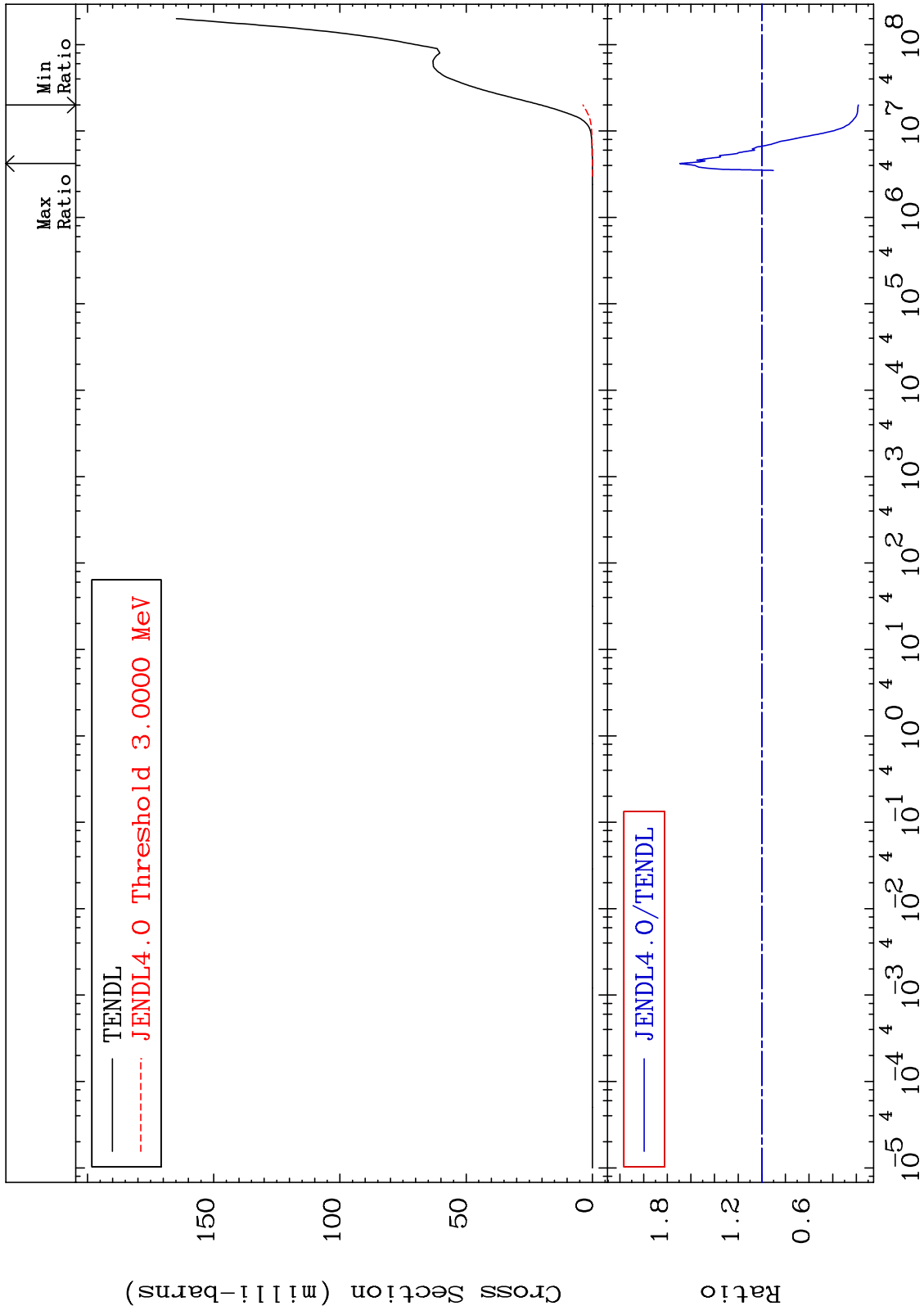
34-Se-79
1303. To 9999. %



MAT 3440

He-4 Production
Cross Section

34-Se-79
-81.70 To 69.39 %

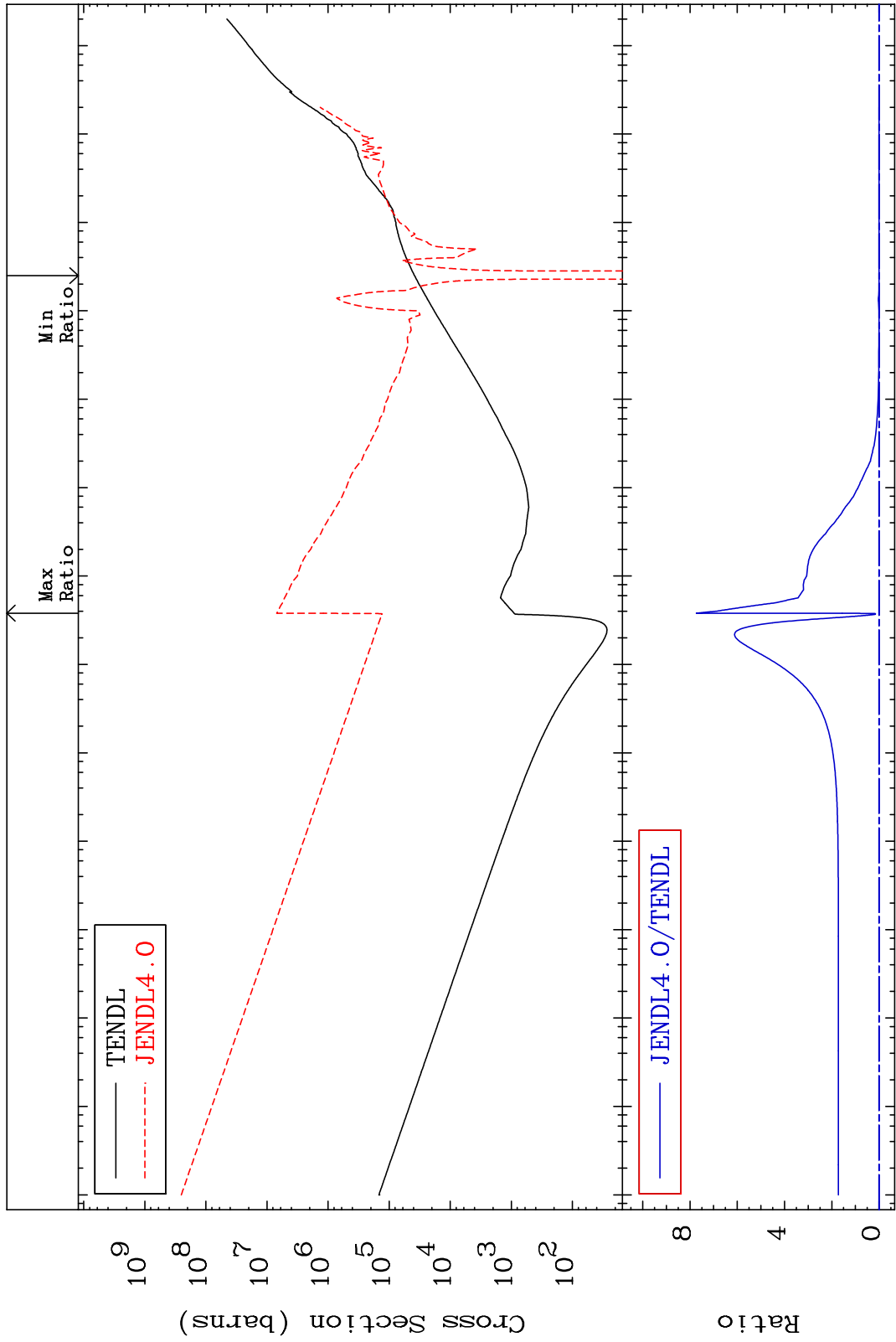


32

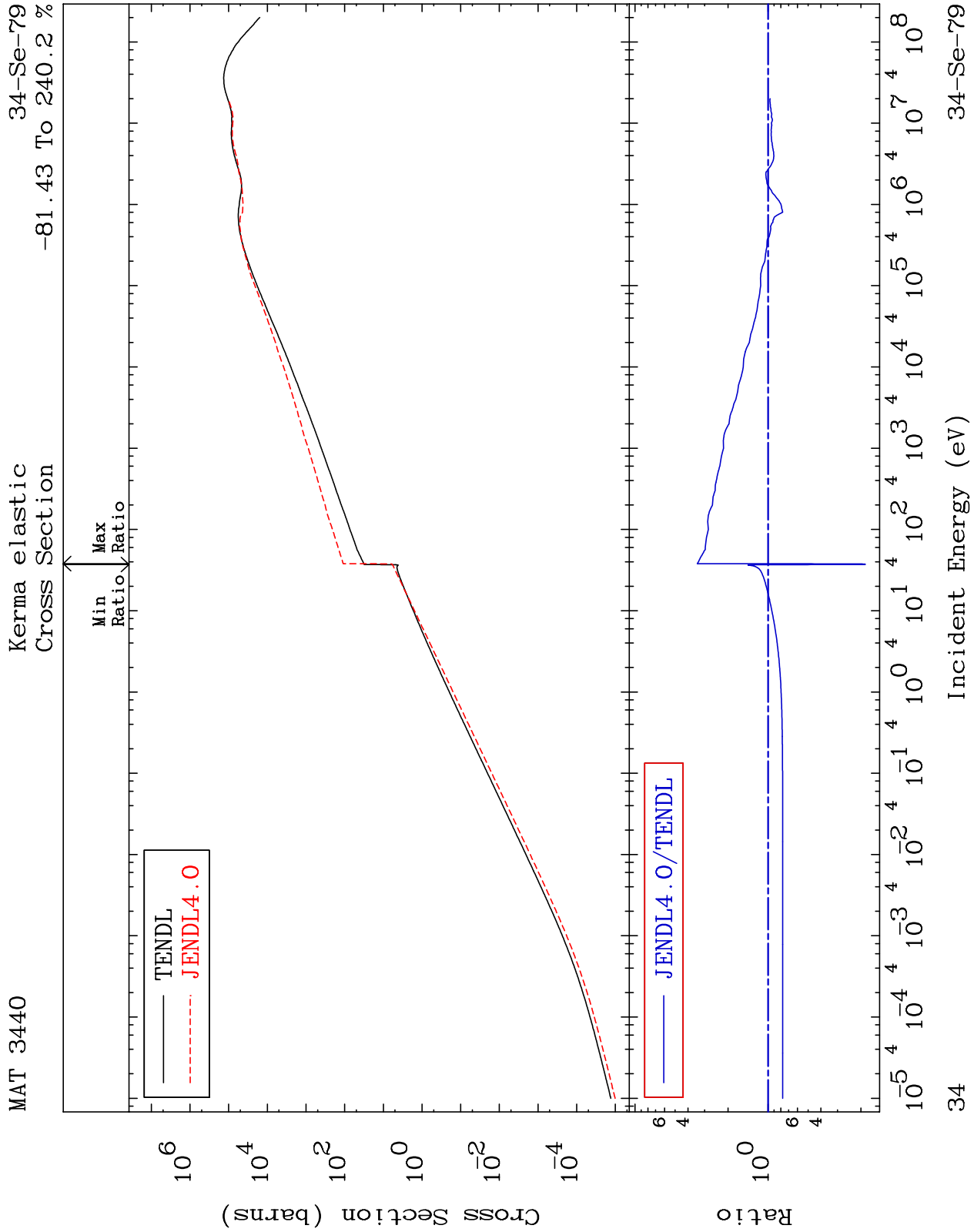
Incident Energy (eV)

34-Se-79

MAT 3440 Kerma total (eV-barns) Cross Section 34-Se-79
-140.2 To 9999. %



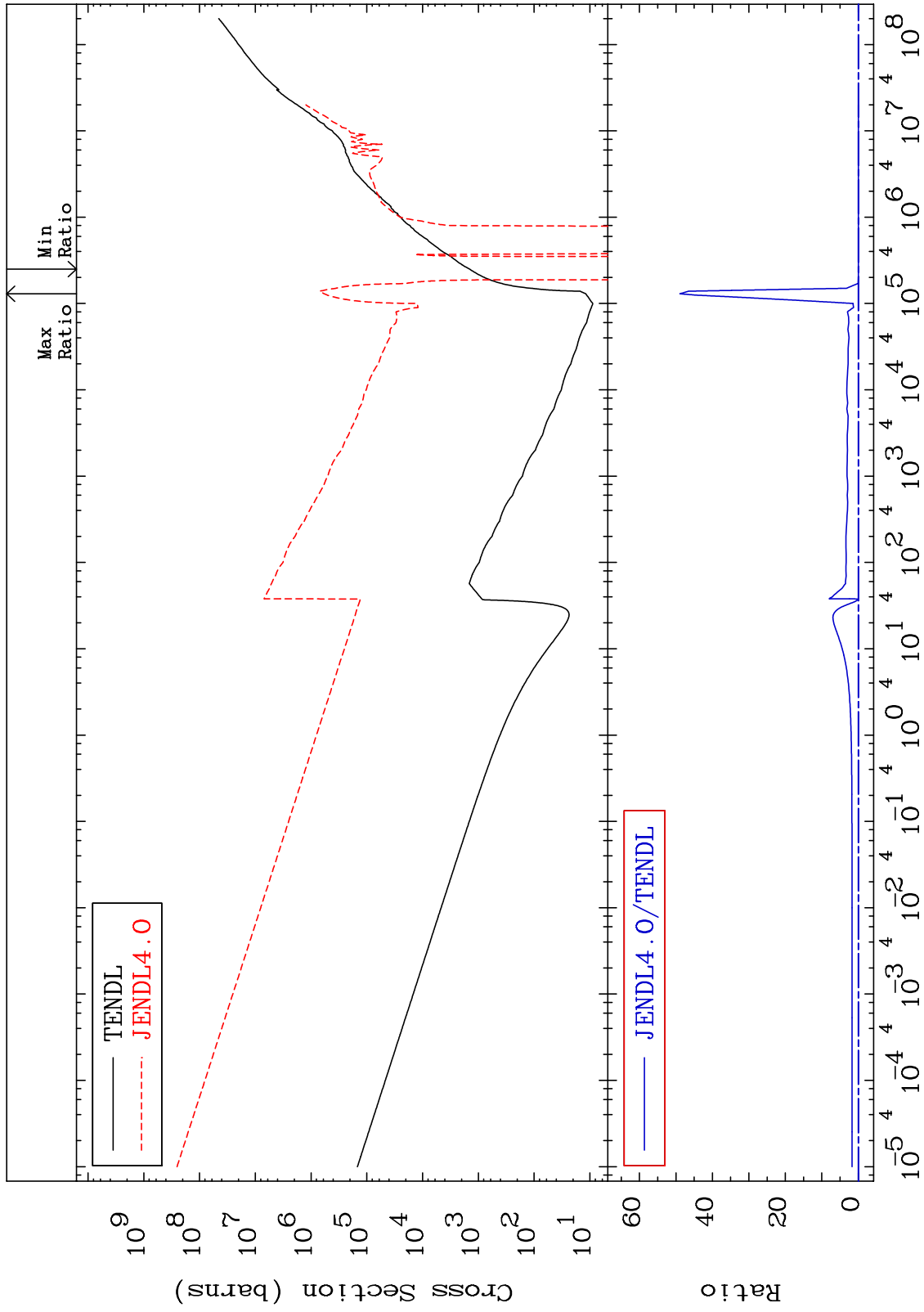
33 Incident Energy (eV) 34-Se-79



MAT 3440

Kerma non-elastic (all but mt2)
Cross Section

34-Se-79
-3876. To 9999. %



35

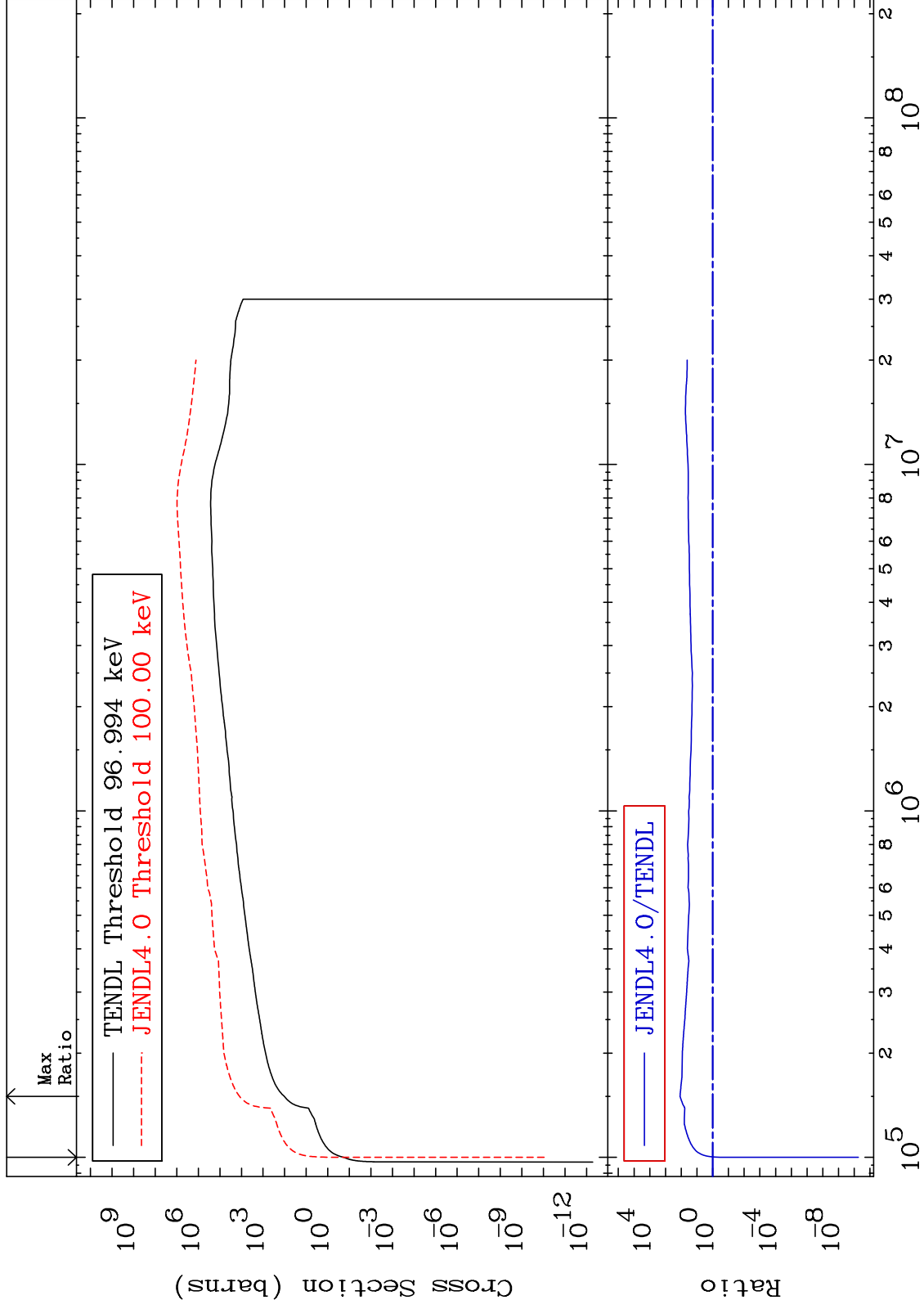
Incident Energy (eV)

34-Se-79

MAT 3440

Kerma inelastic (mt51-91)
Cross Section

34-Se-79
-100.0 To 9999. %



36

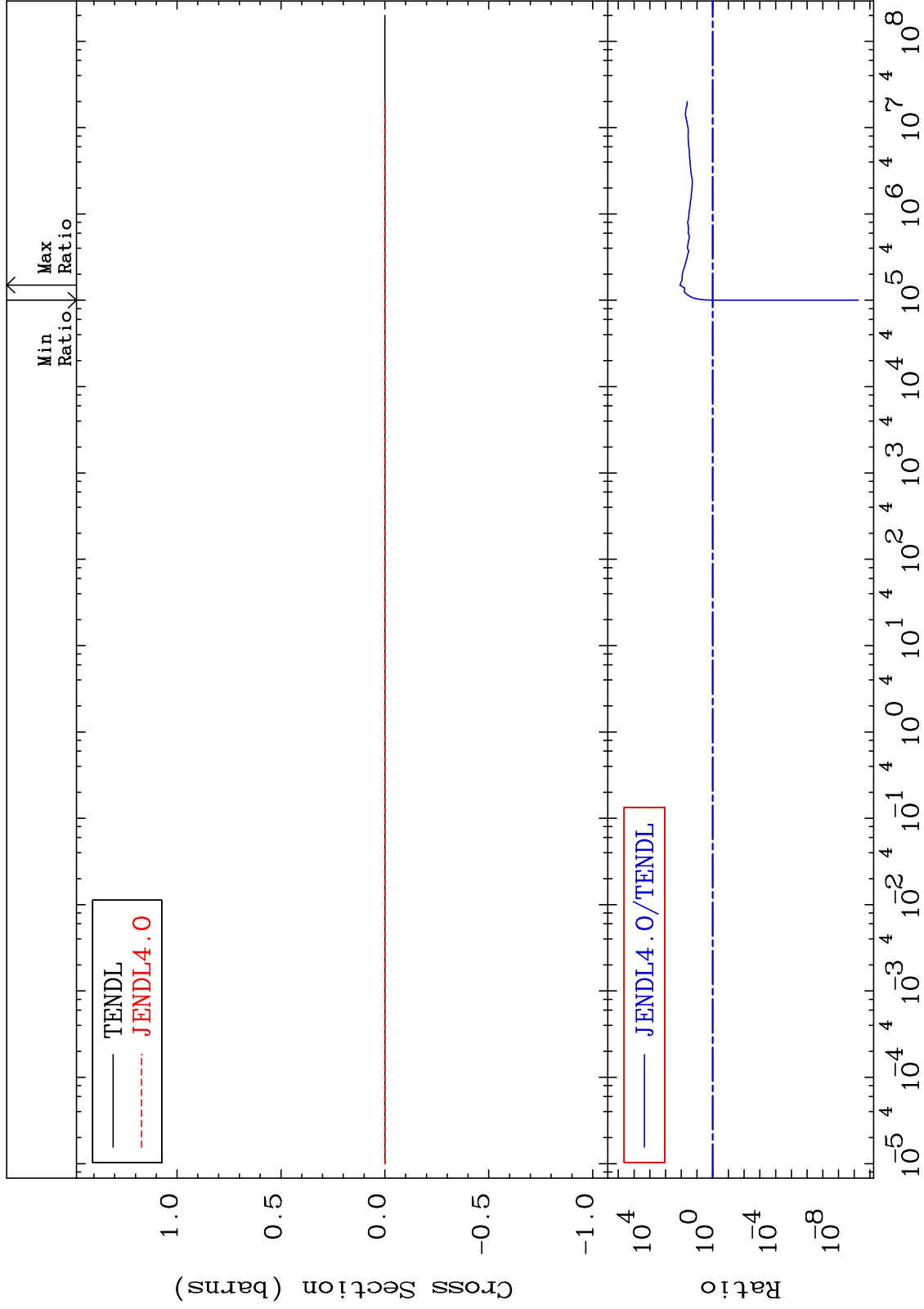
Incident Energy (eV)

34-Se-79

MAT 3440

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

34-Se-79
-100.0 To 9999. %



37

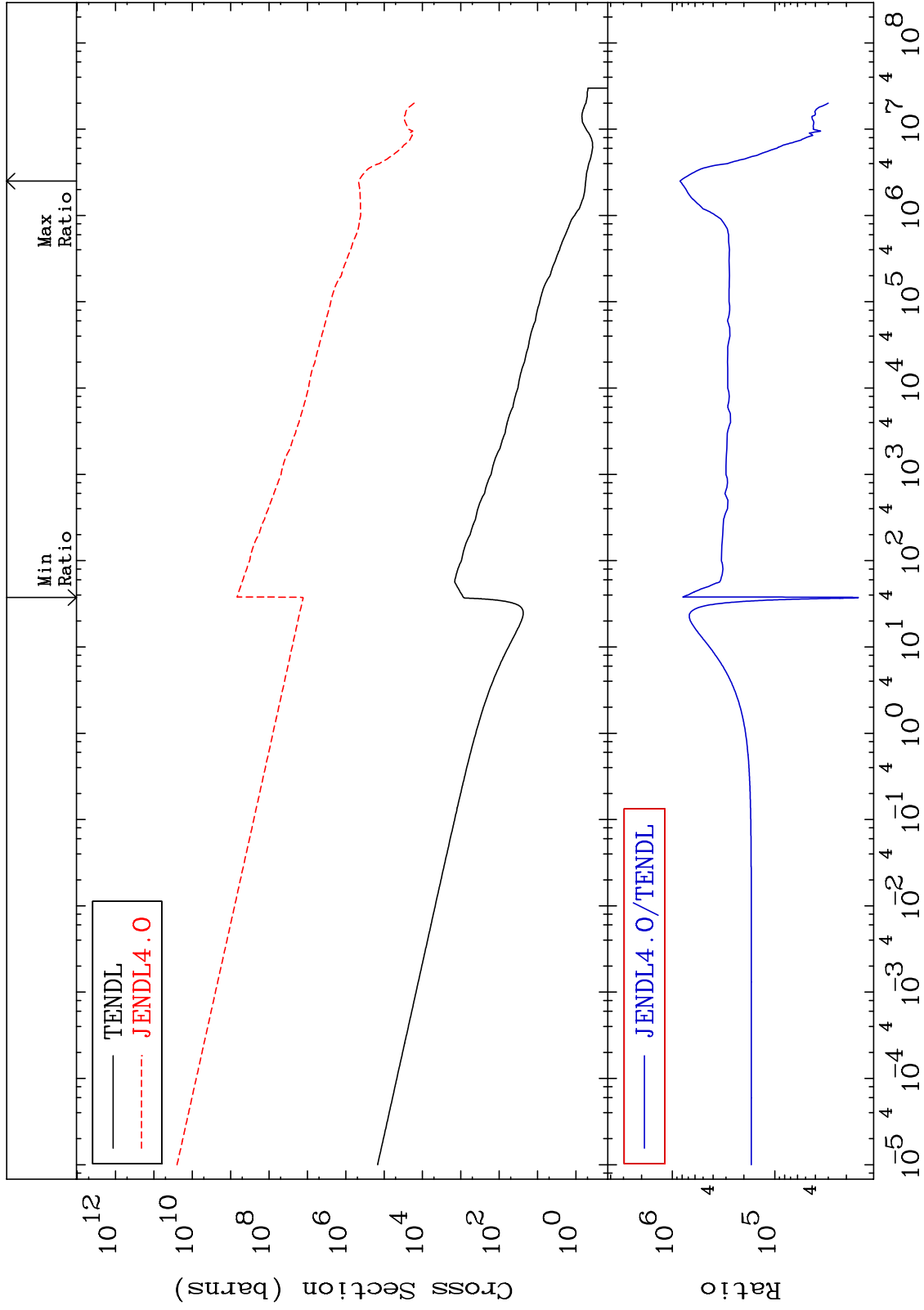
Incident Energy (eV)

34-Se-79

MAT 3440

Kerma capture (mt102)
Cross Section

34-Se-79
9999. To 9999. %

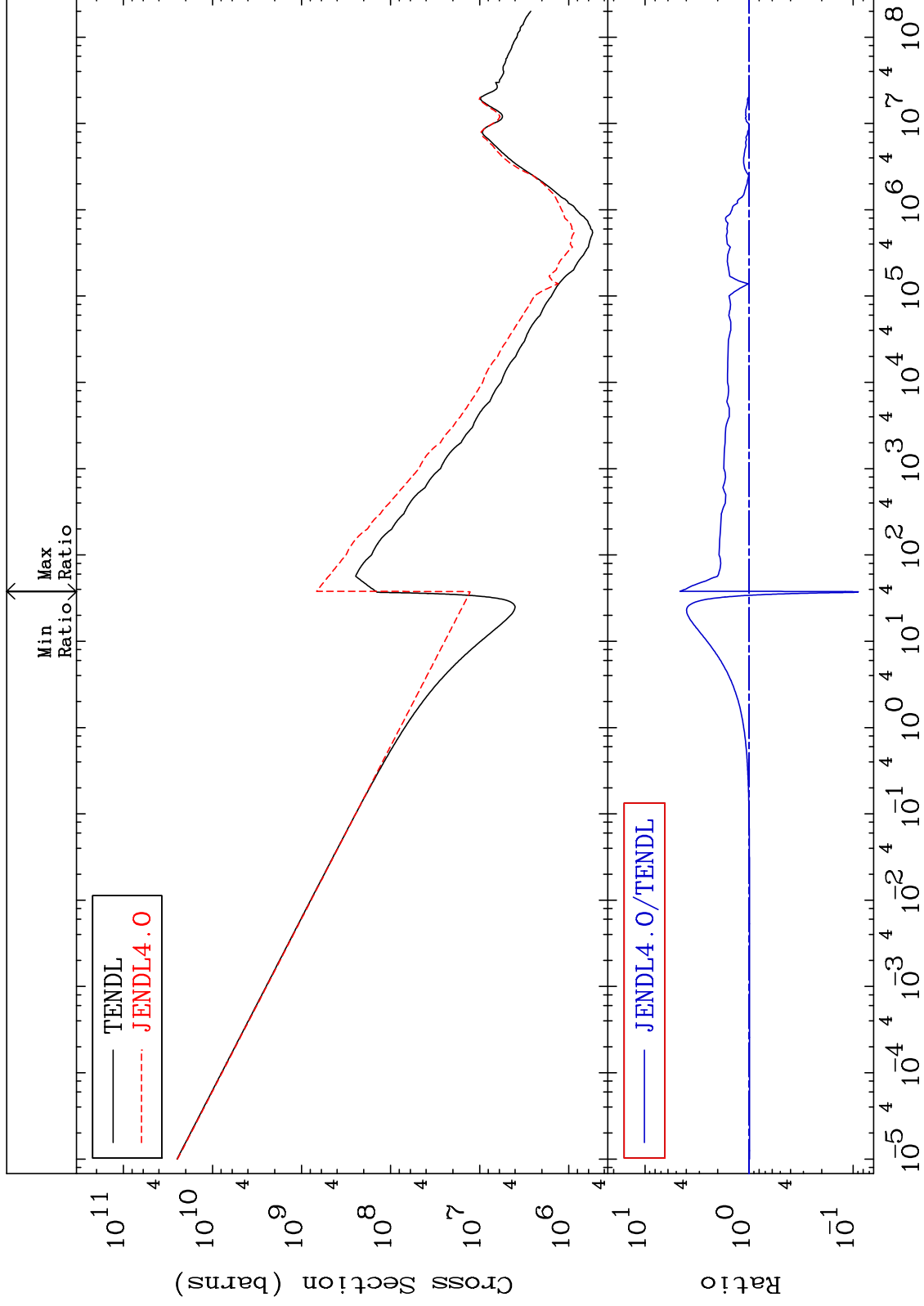


MAT 3440

Total photon (eV-barns)
Cross Section

34-Se-79

-91.11 To 360.3 %

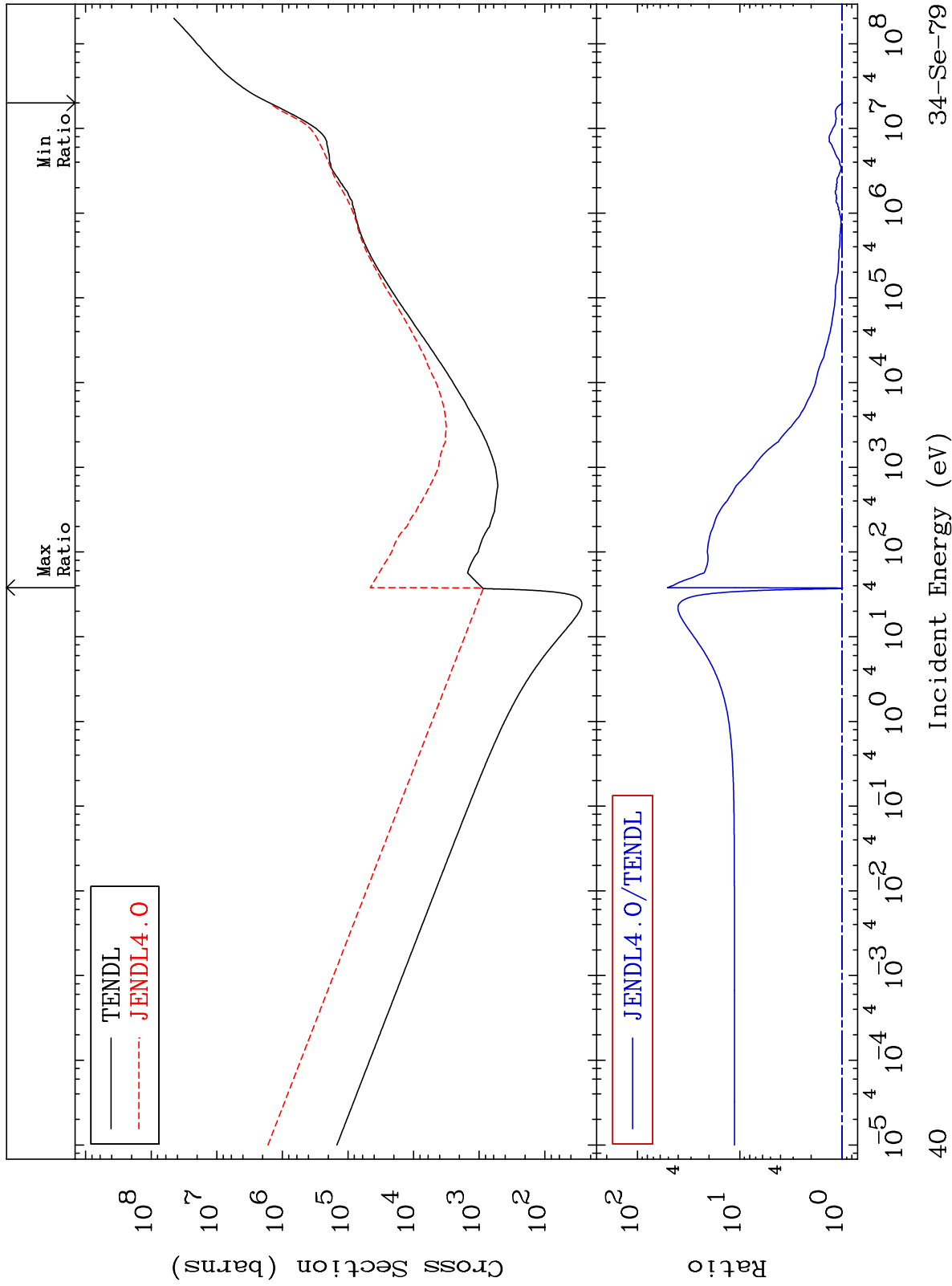


39

Incident Energy (eV)

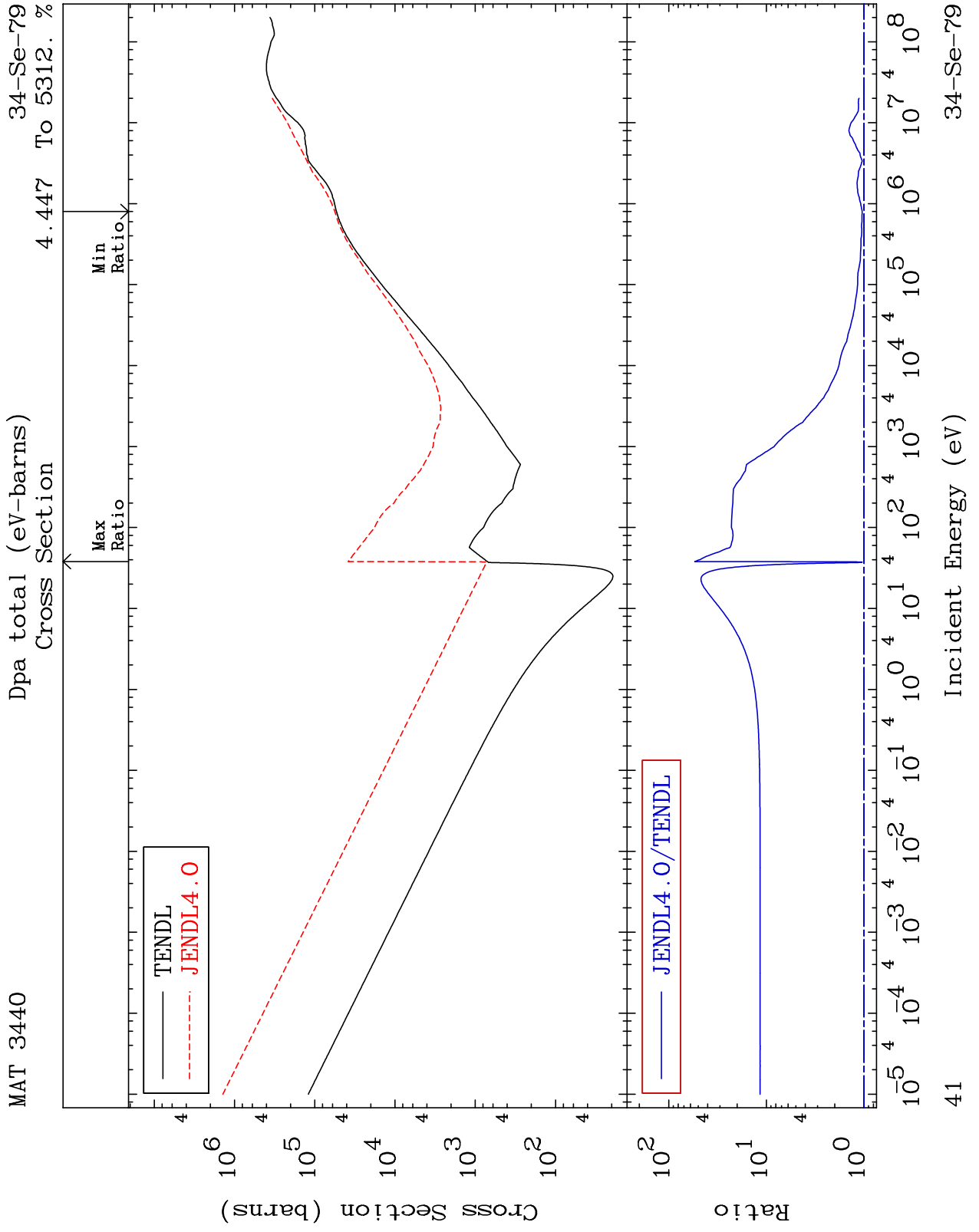
34-Se-79

MAT 3440 Total kinematic kerma (high limit) Cross Section 34-Se-79 -1.446 To 4983. %



34-Se-79

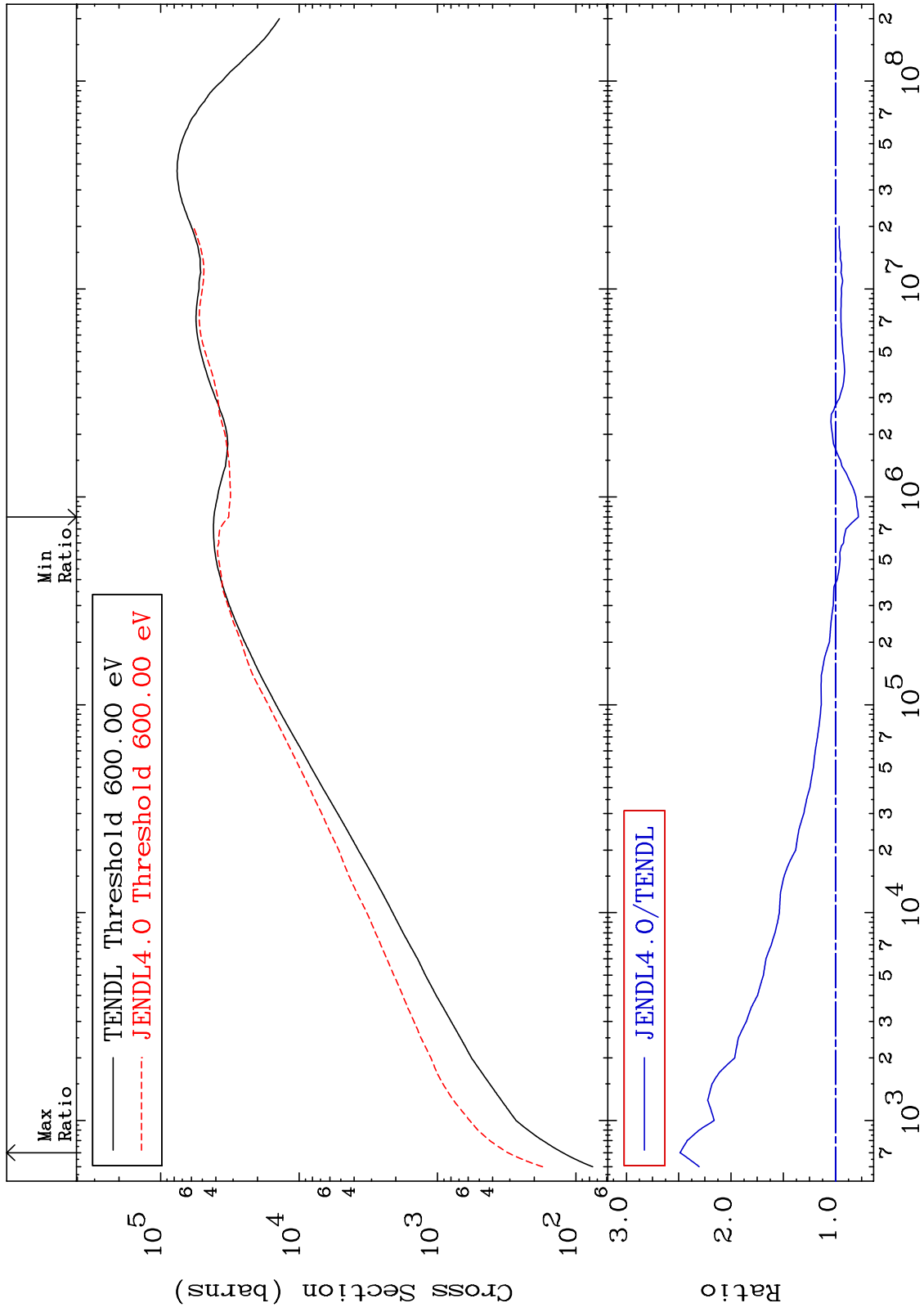
40



MAT 3440

Dpa elastic (mt2)
Cross Section

34-Se-79
-21.83 To 148.7 %



42

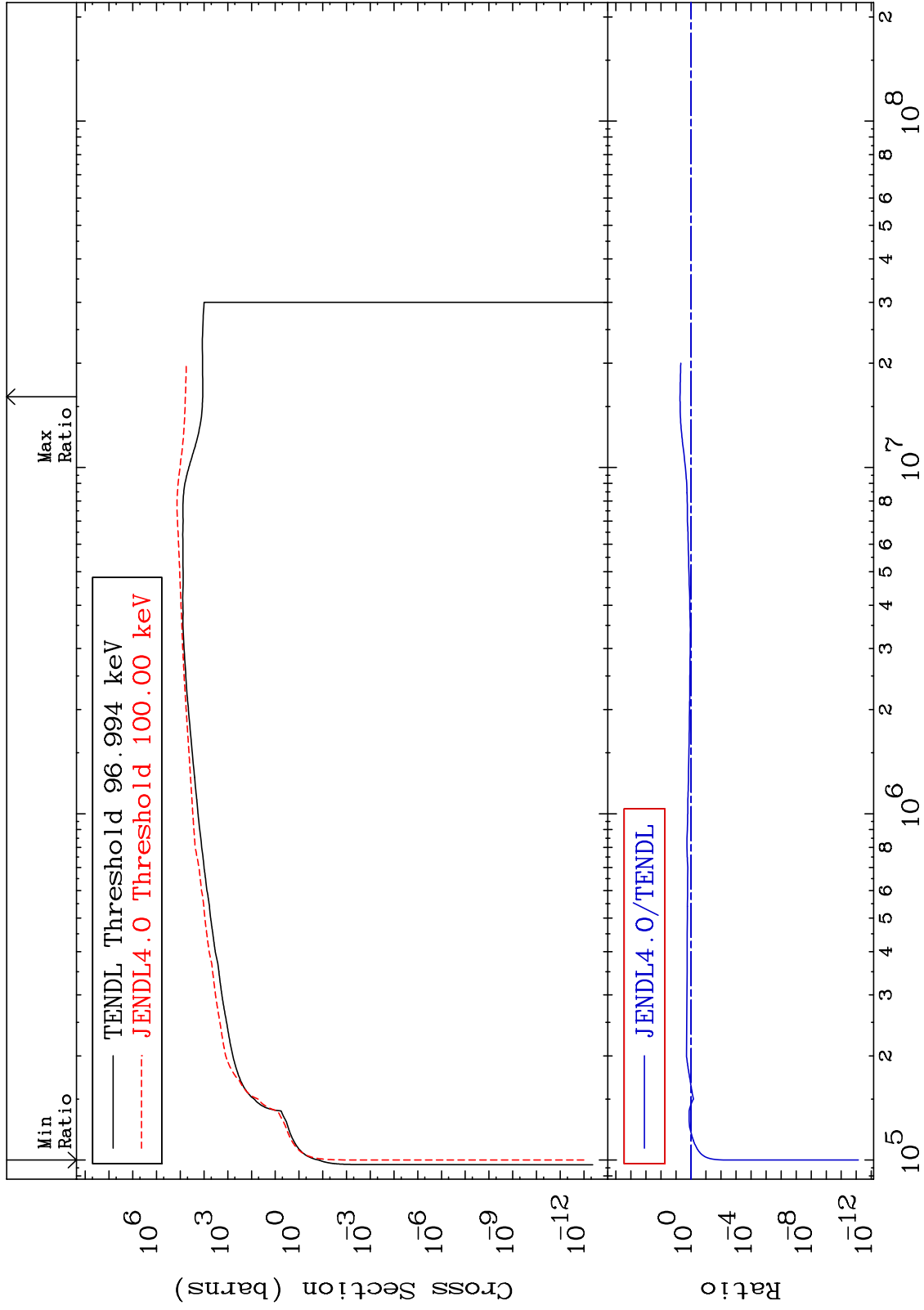
Incident Energy (eV)

34-Se-79

MAT 3440

Dpa inelastic (mt51-91)
Cross Section

34-Se-79
-100.0 To 436.1 %



43

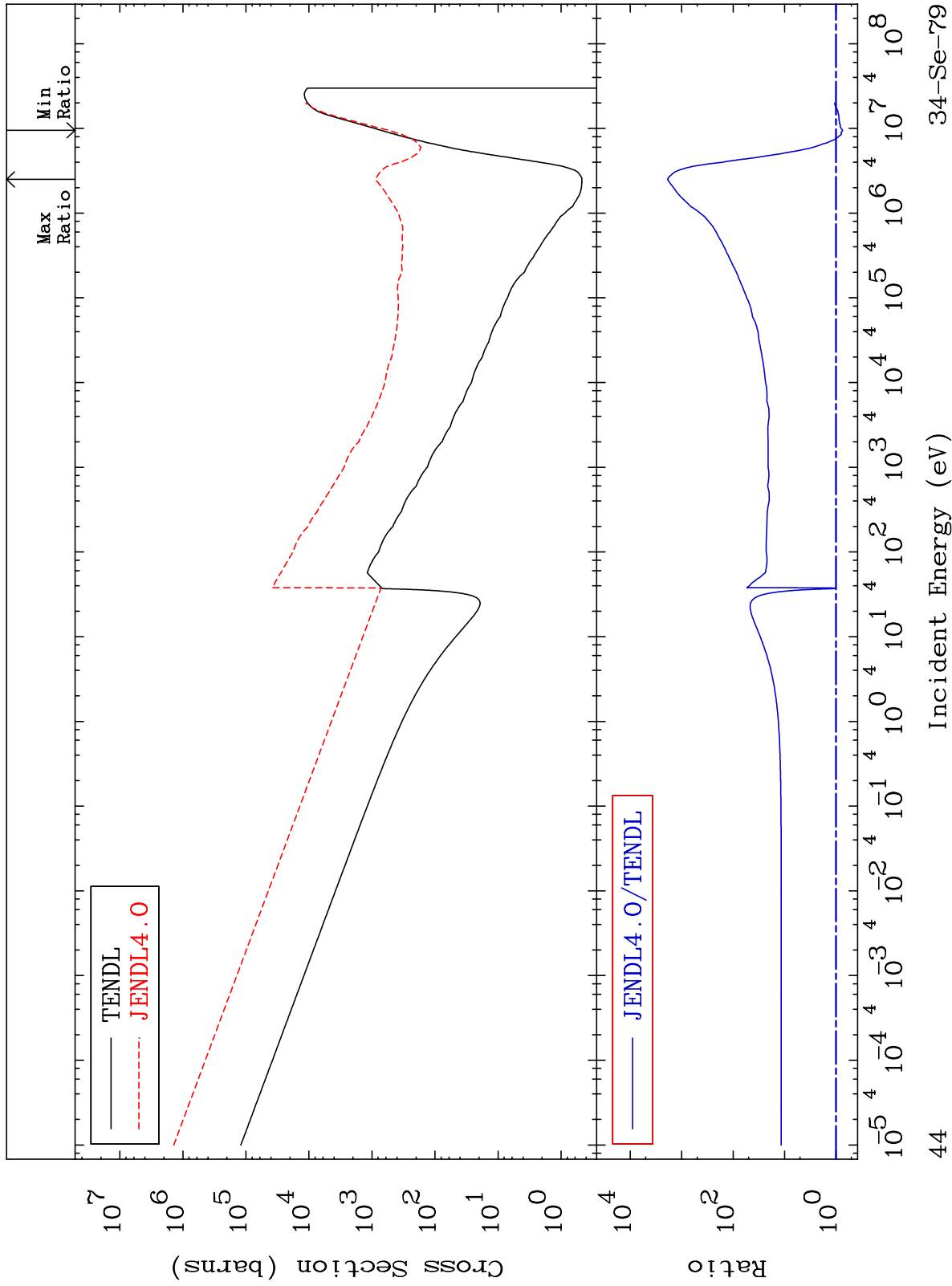
Incident Energy (eV)

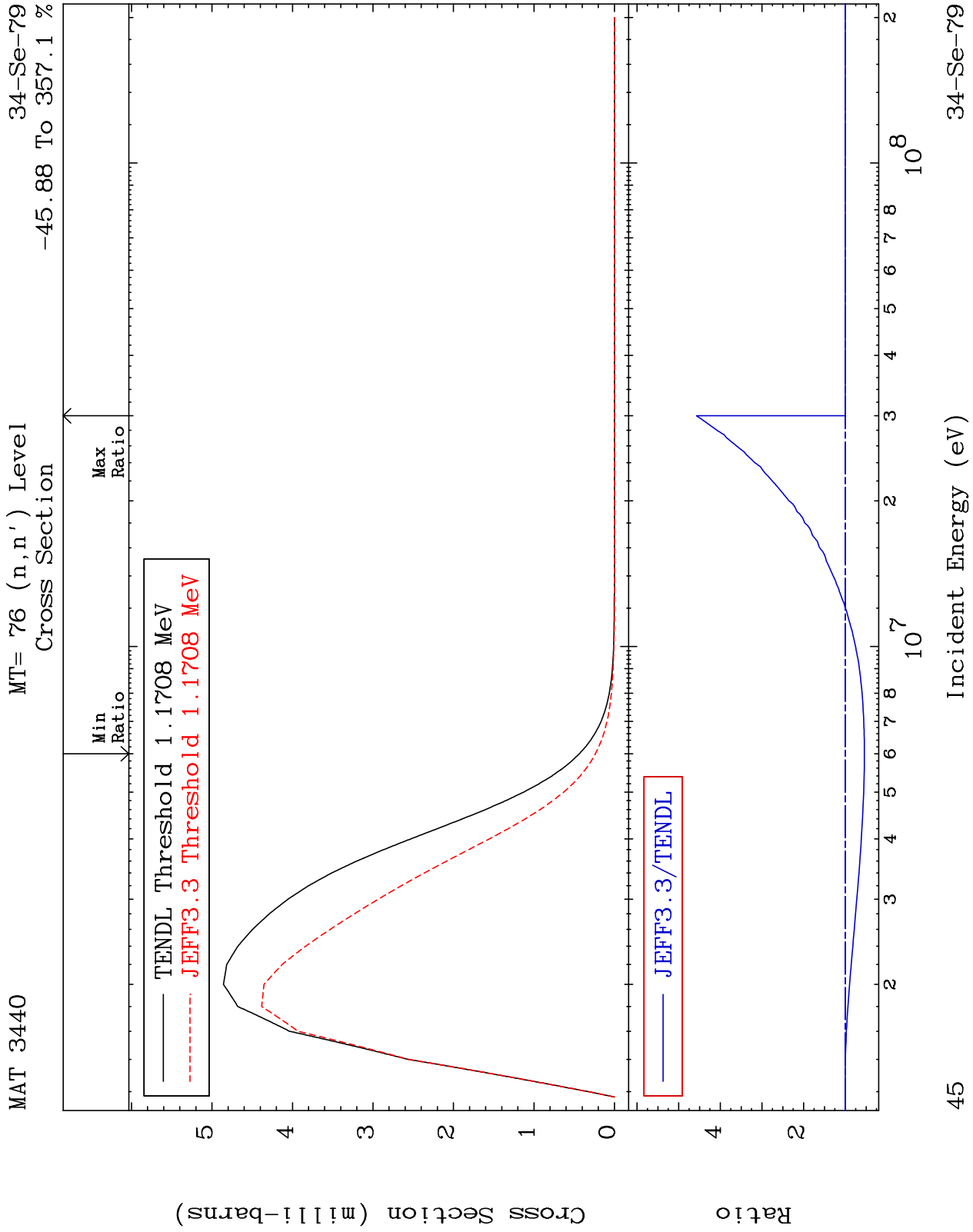
34-Se-79

MAT 3440

Dpa disappearance (mt102 -120)
Cross Section

34-Se-79
-25.84 To 9999. %

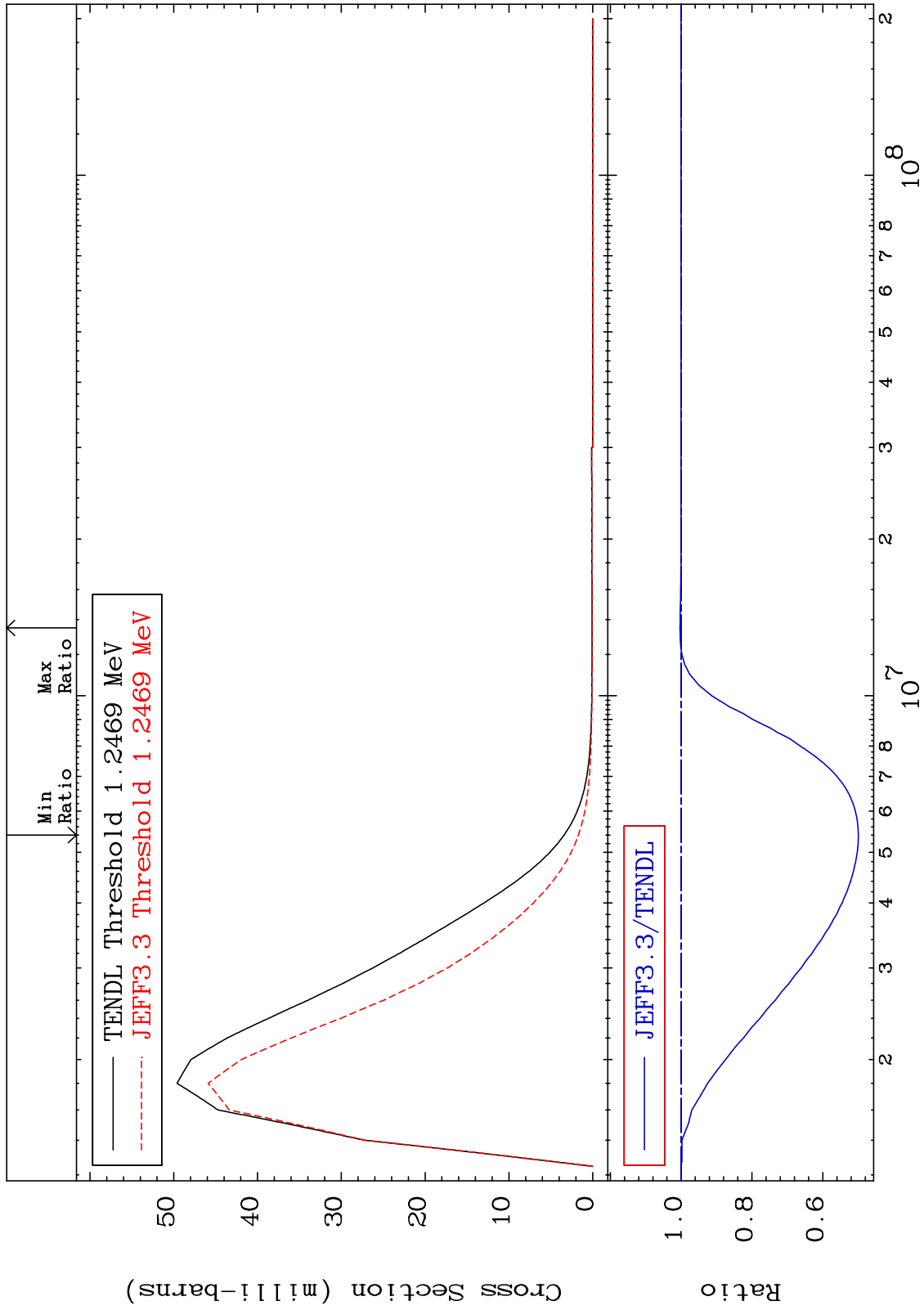




MAT 3440

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

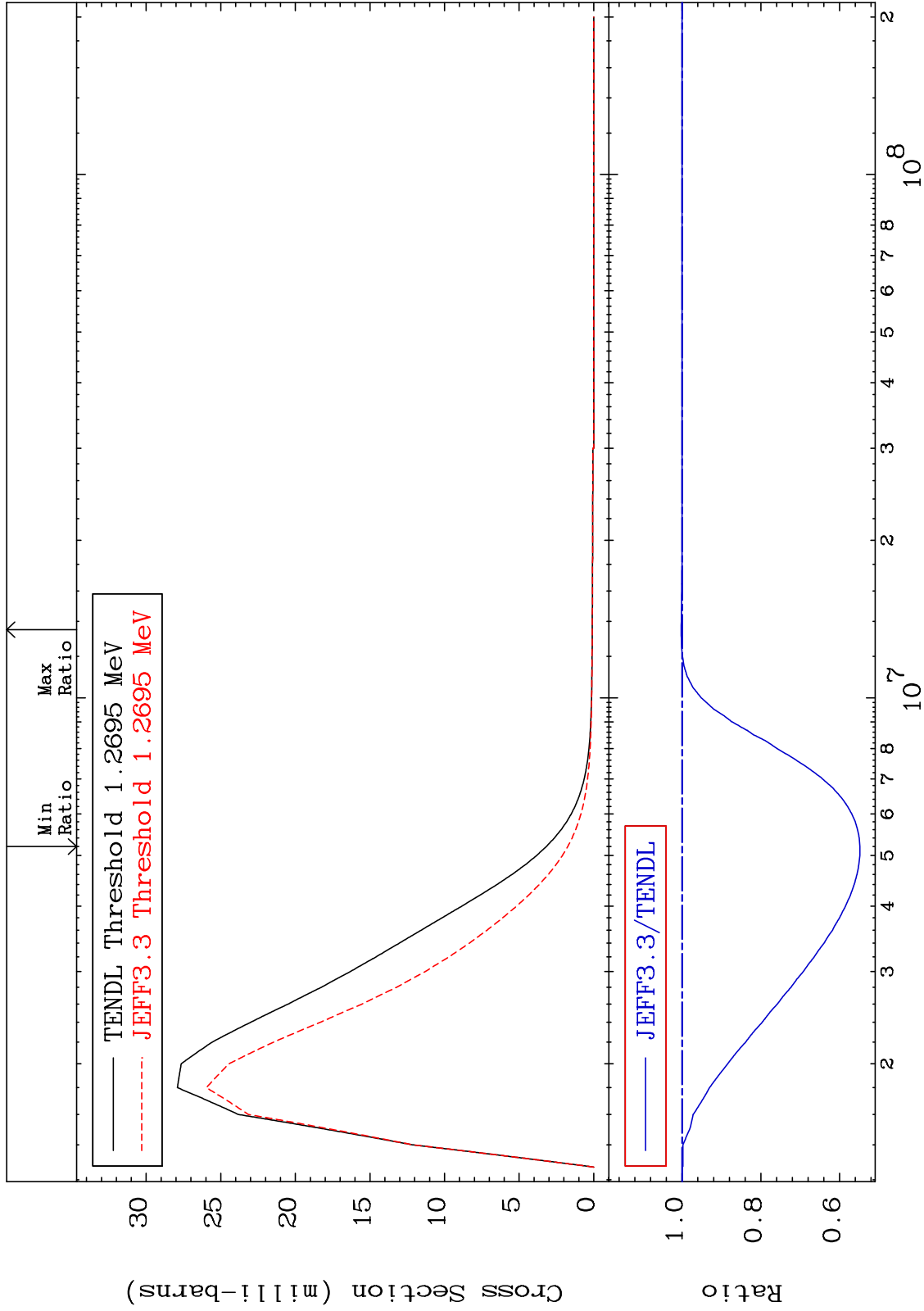
34-Se-79
-50.04 To 0.317 %



MAT 3440

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

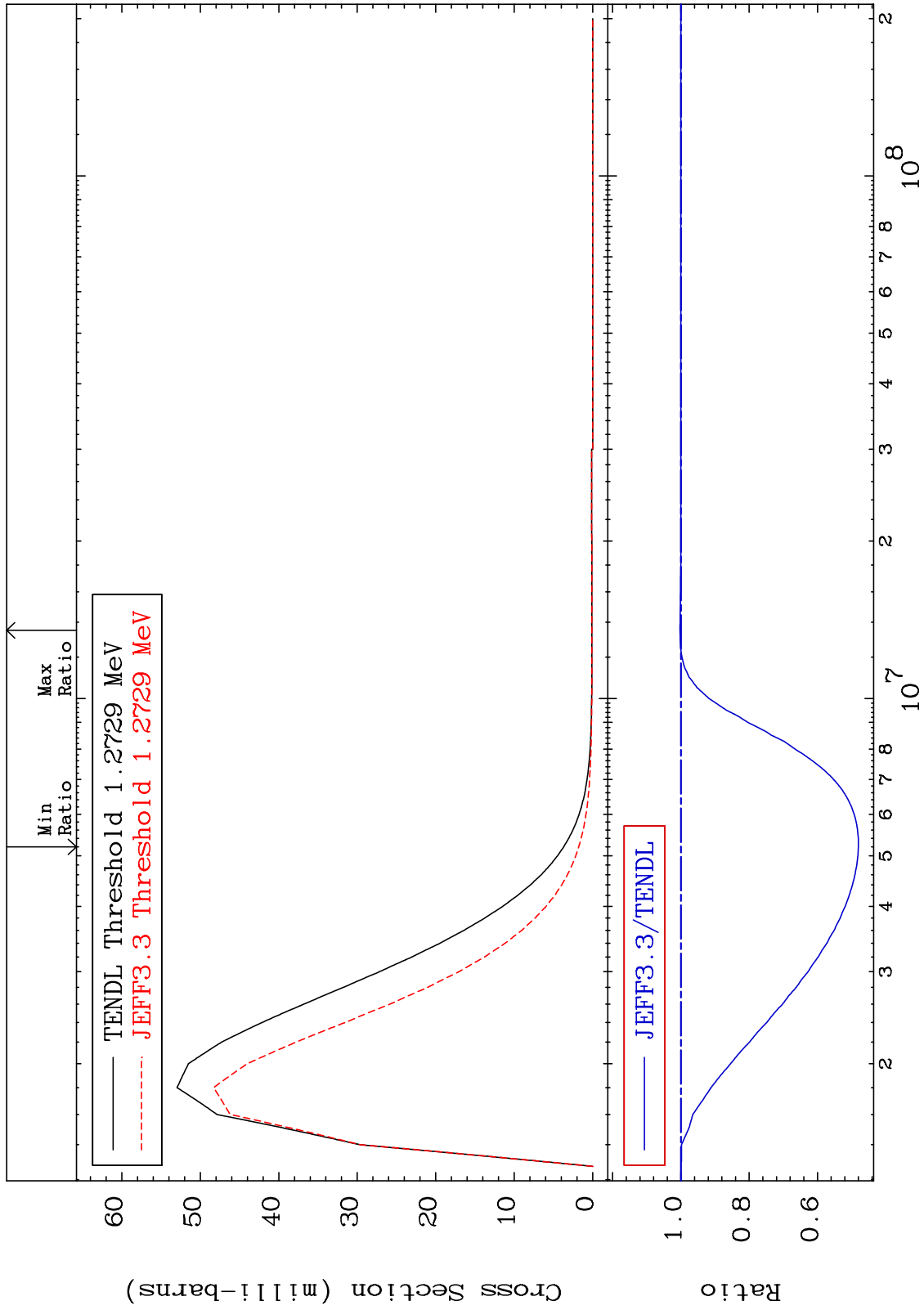
34-Se-79
-45.16 To 0.226 %



MAT 3440

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

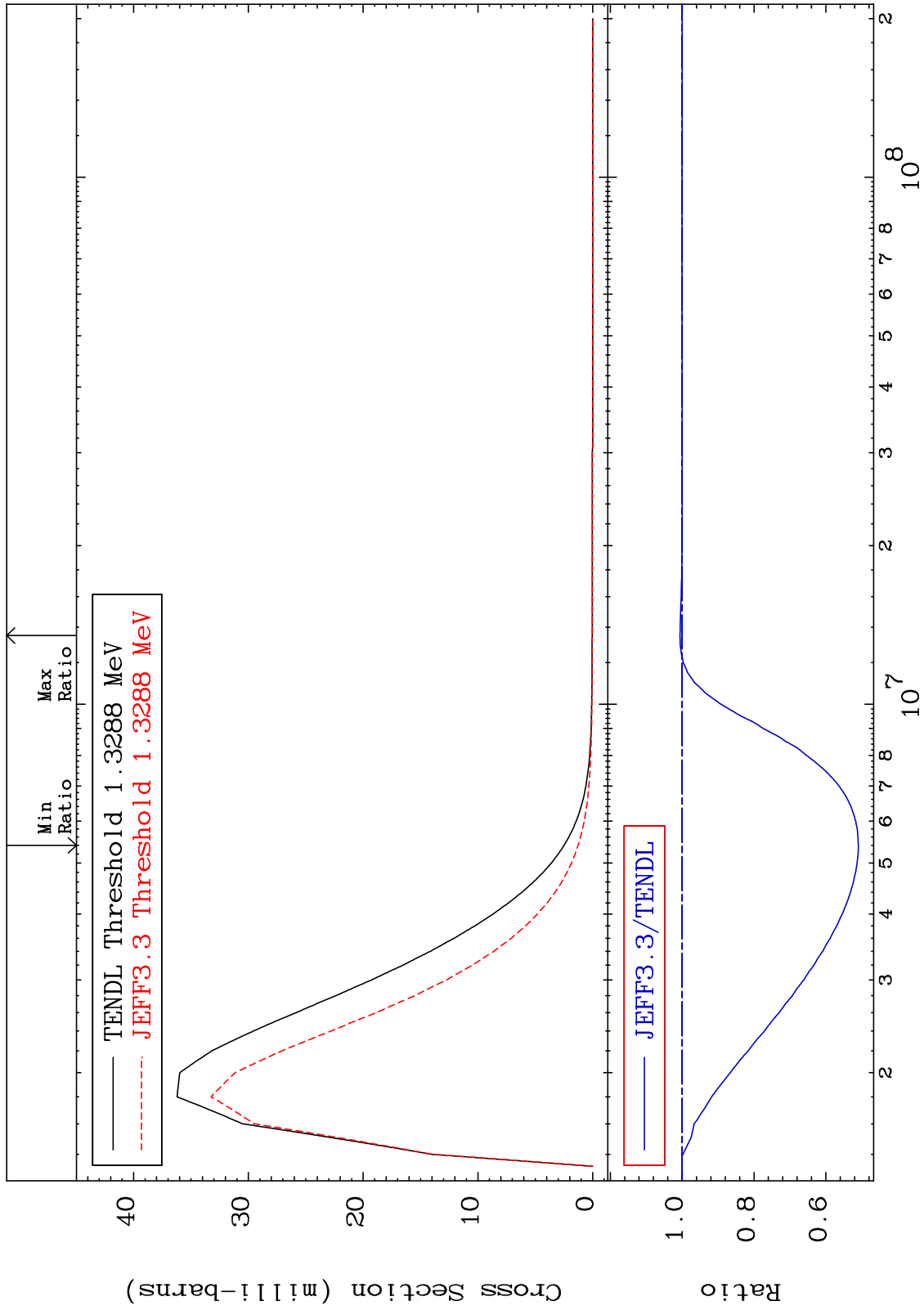
34-Se-79
-51.99 To 0.260 %

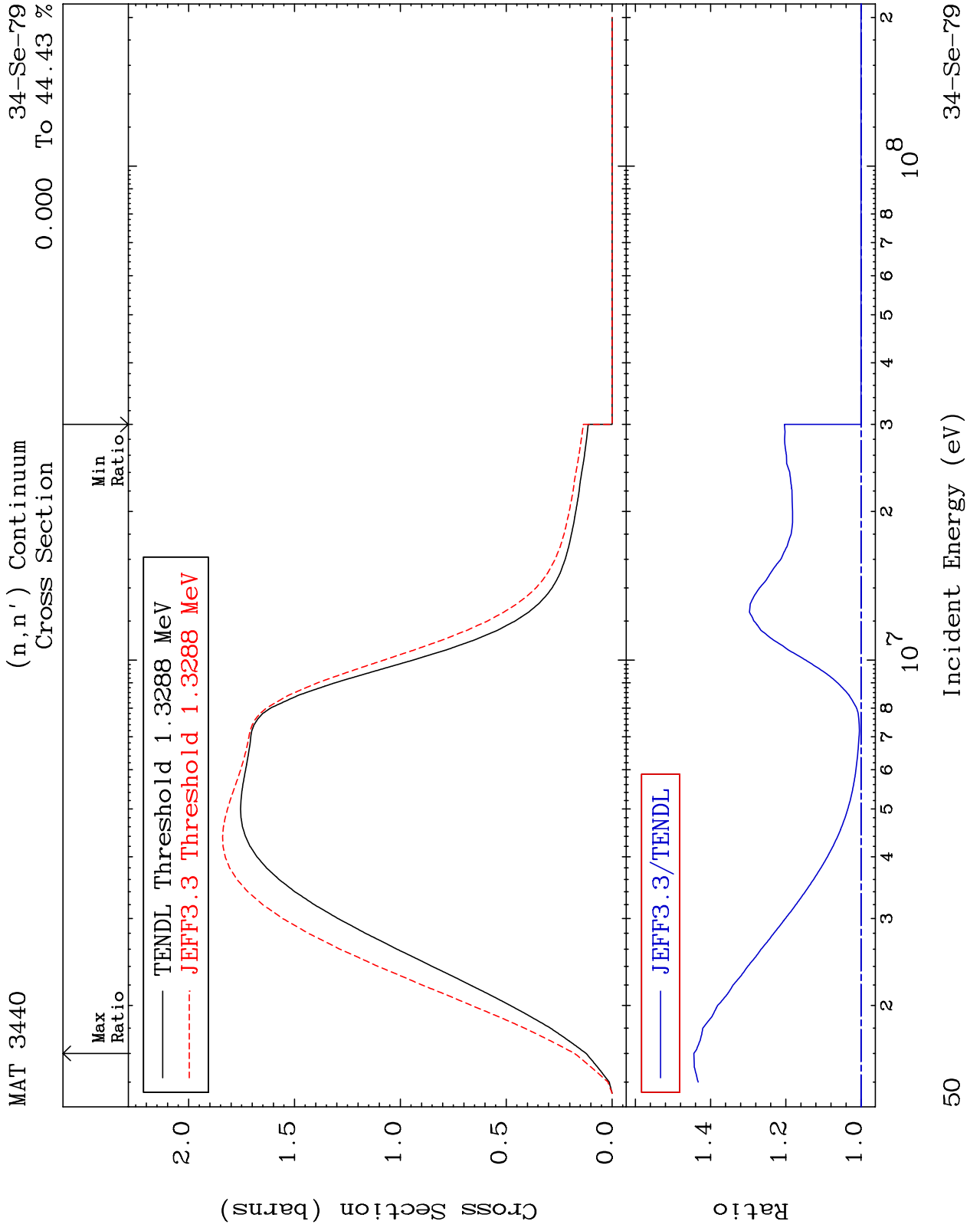


MAT 3440

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

34-Se-79
-49.06 To 0.593 %



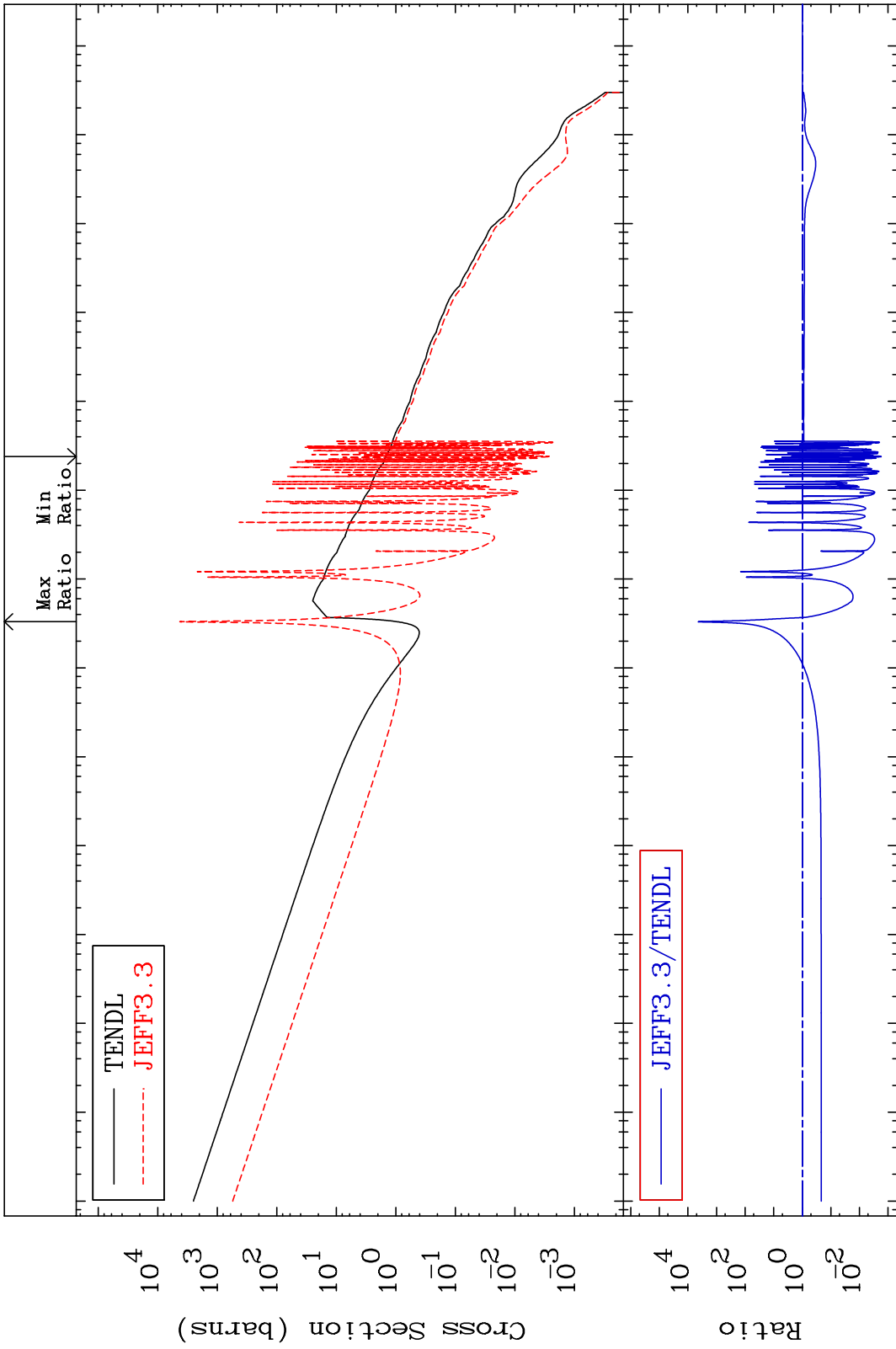


MAT 3440

34-Se-79

-99.83 To 9999. %

(n, γ)
Cross Section



Incident Energy (eV) 34-Se-79

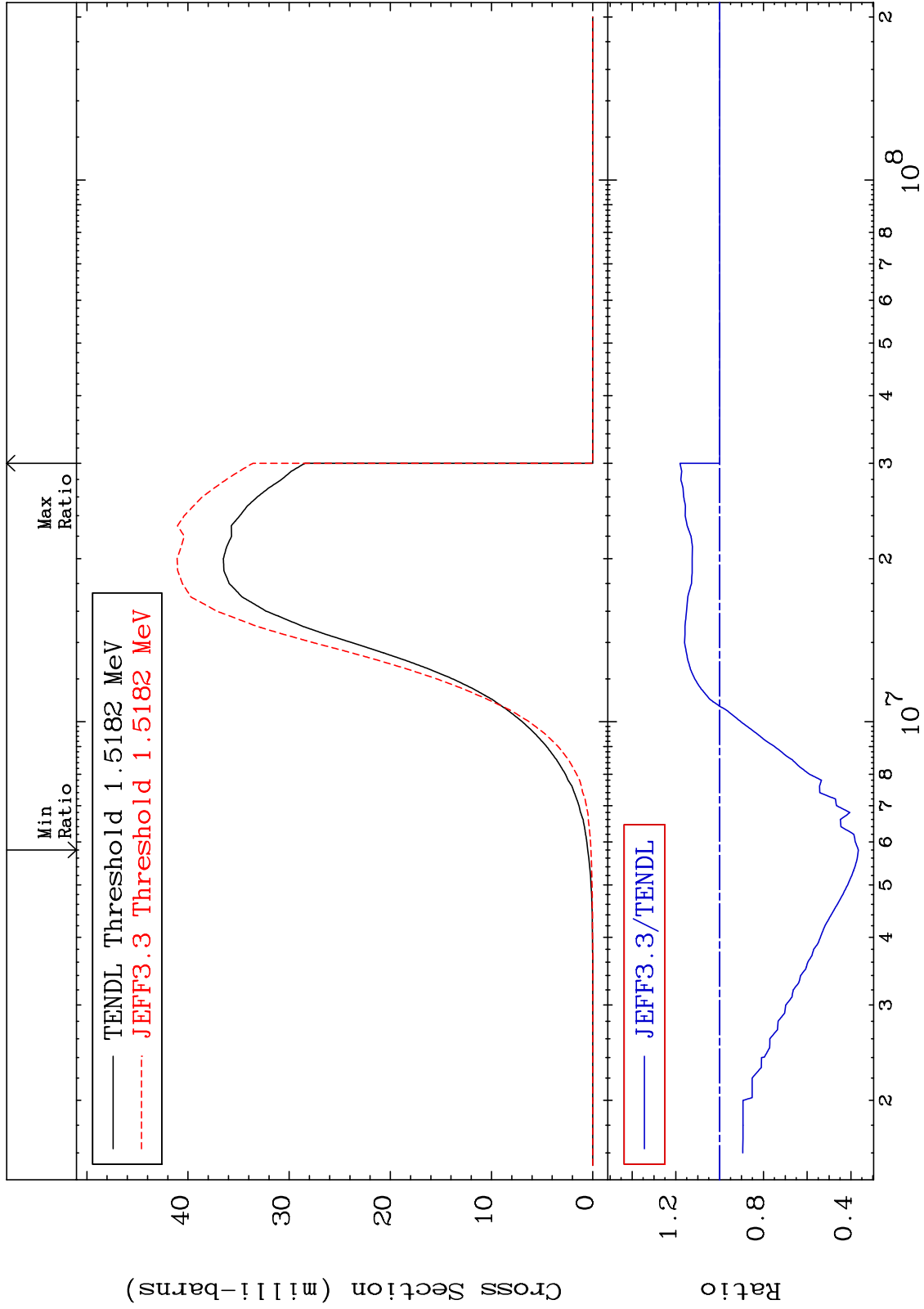
MAT 3440

(n, p)

³⁴Se-79

Cross Section

-63.41 To 18.11 %



52

Incident Energy (eV)

³⁴Se-79

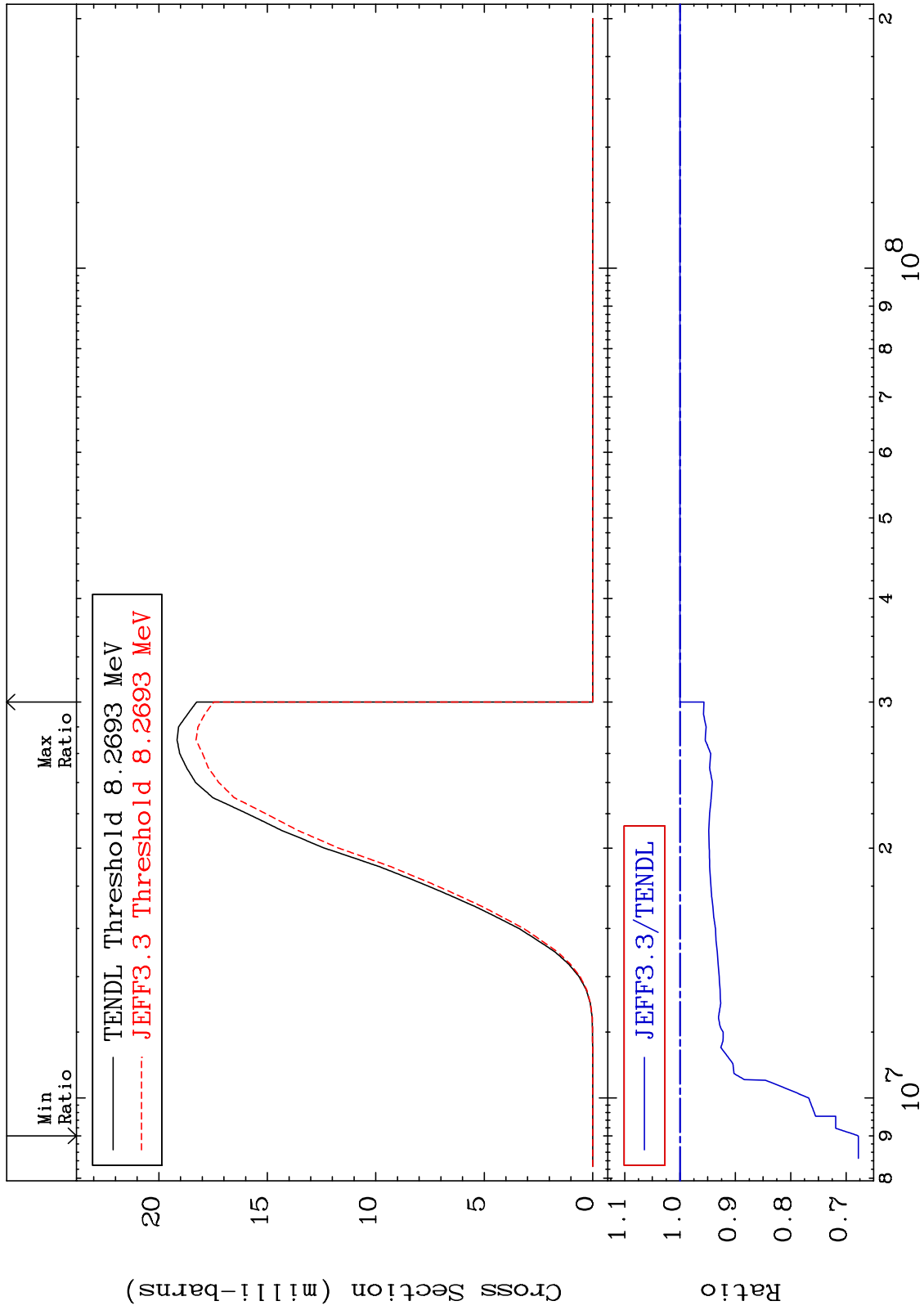
MAT 3440

(n, d)

³⁴Se-79

Cross Section

-32.23 To 0.000 %



53

Incident Energy (eV)

³⁴Se-79

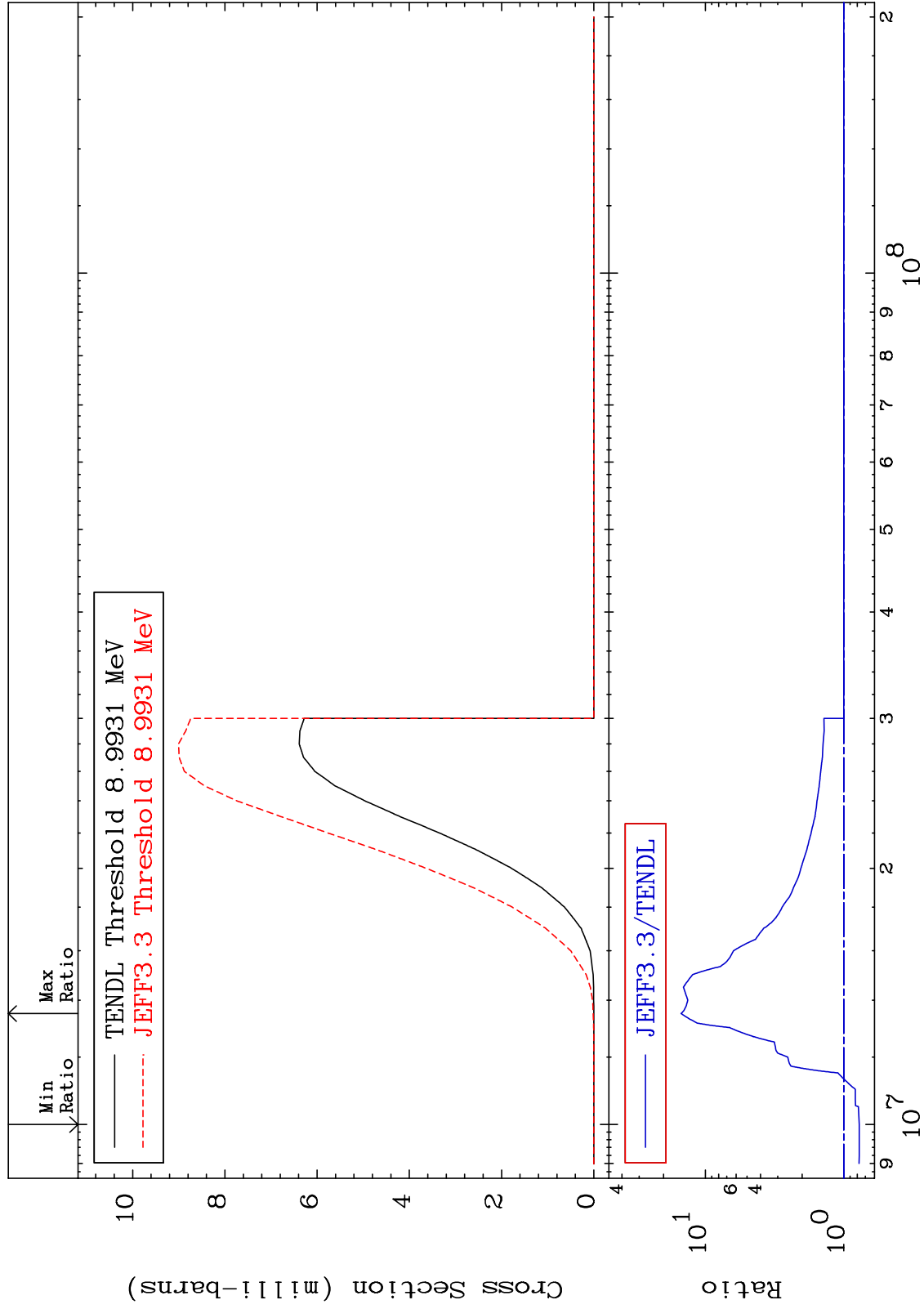
MAT 3440

(n, t)

³⁴Se-79

Cross Section

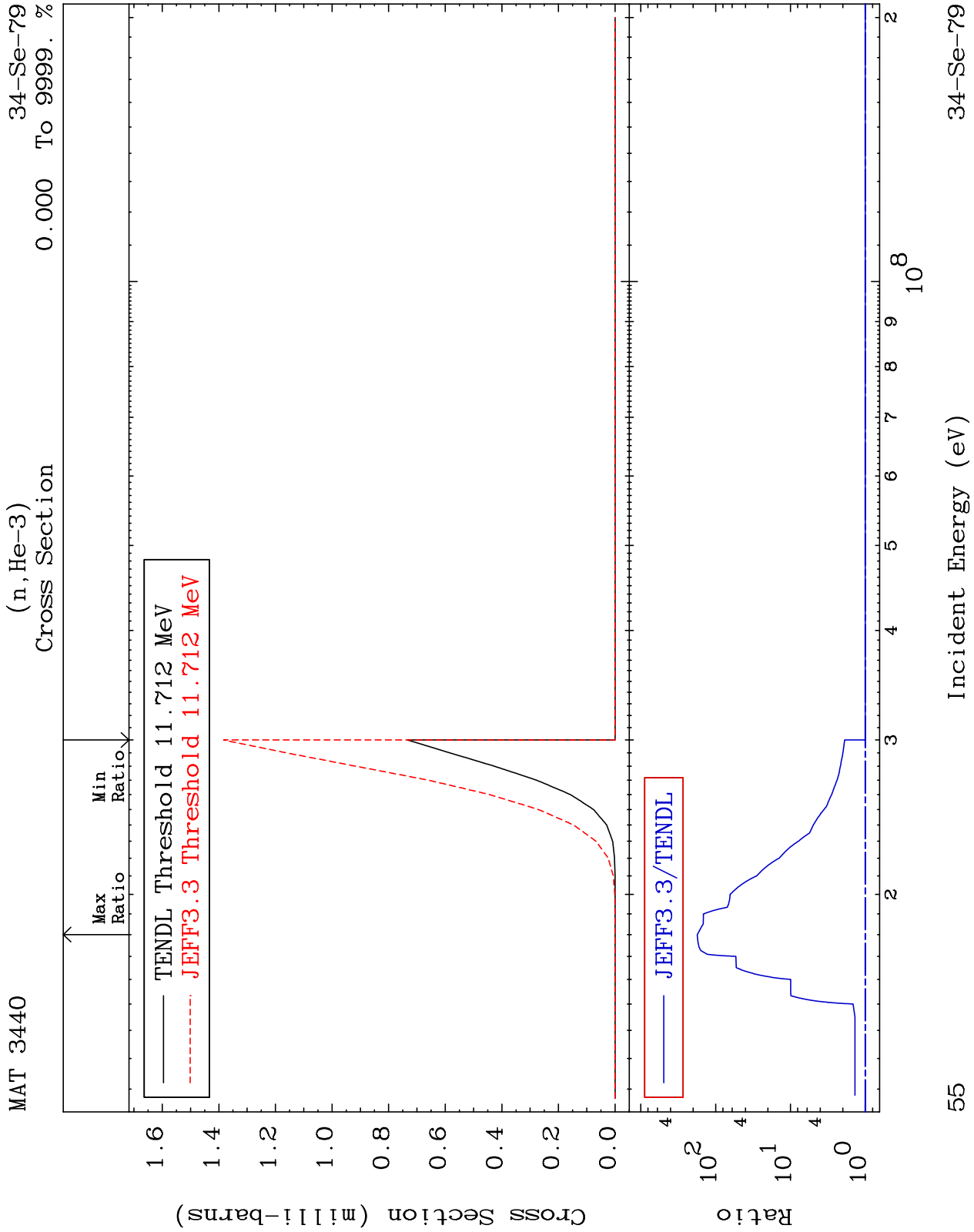
-22.71 To 1397. %



54

Incident Energy (eV)

³⁴Se-79



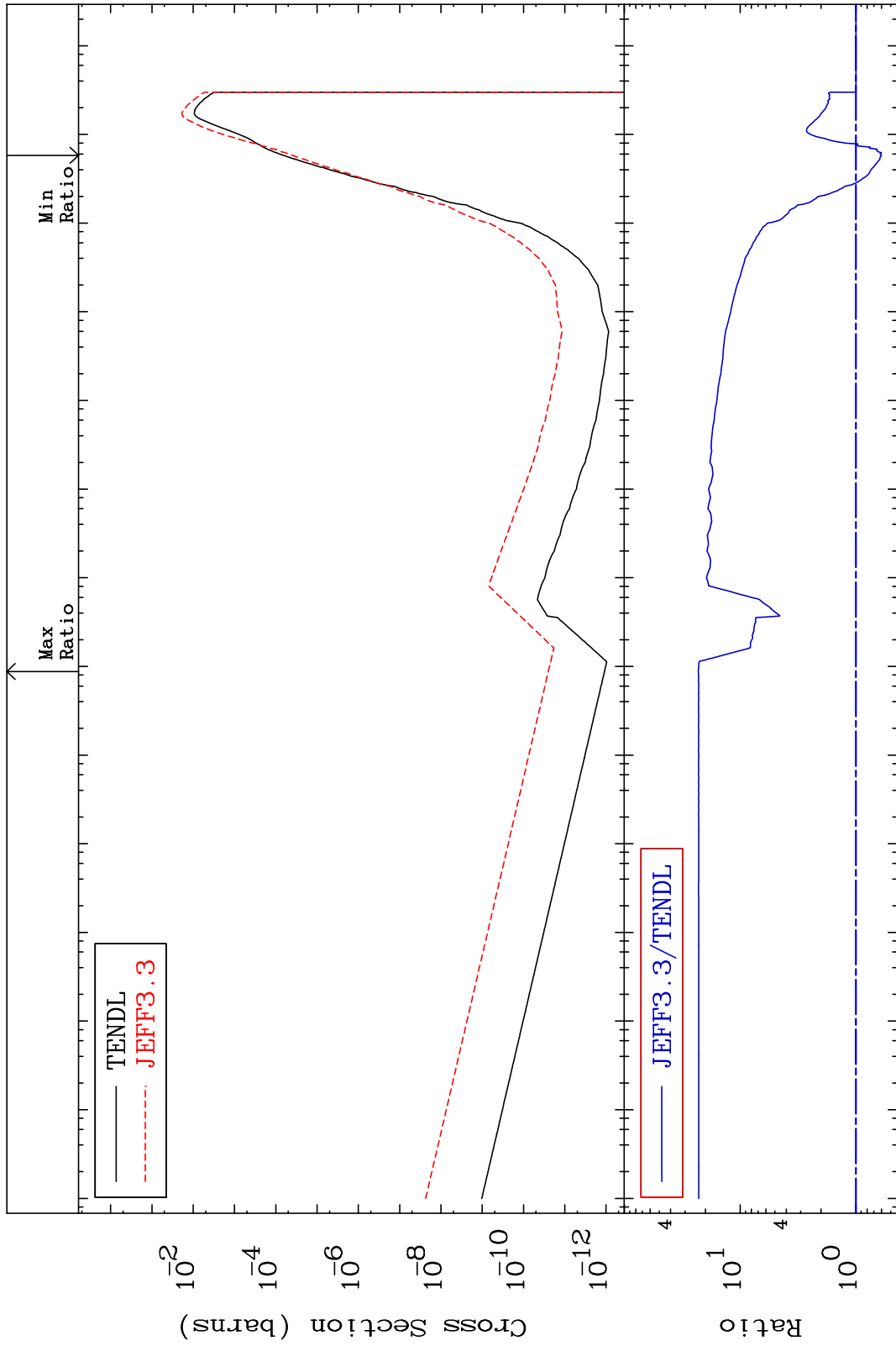
MAT 3440

(n, α)

34-Se-79

Cross Section

-40.03 To 2198. %



Incident Energy (eV)

34-Se-79

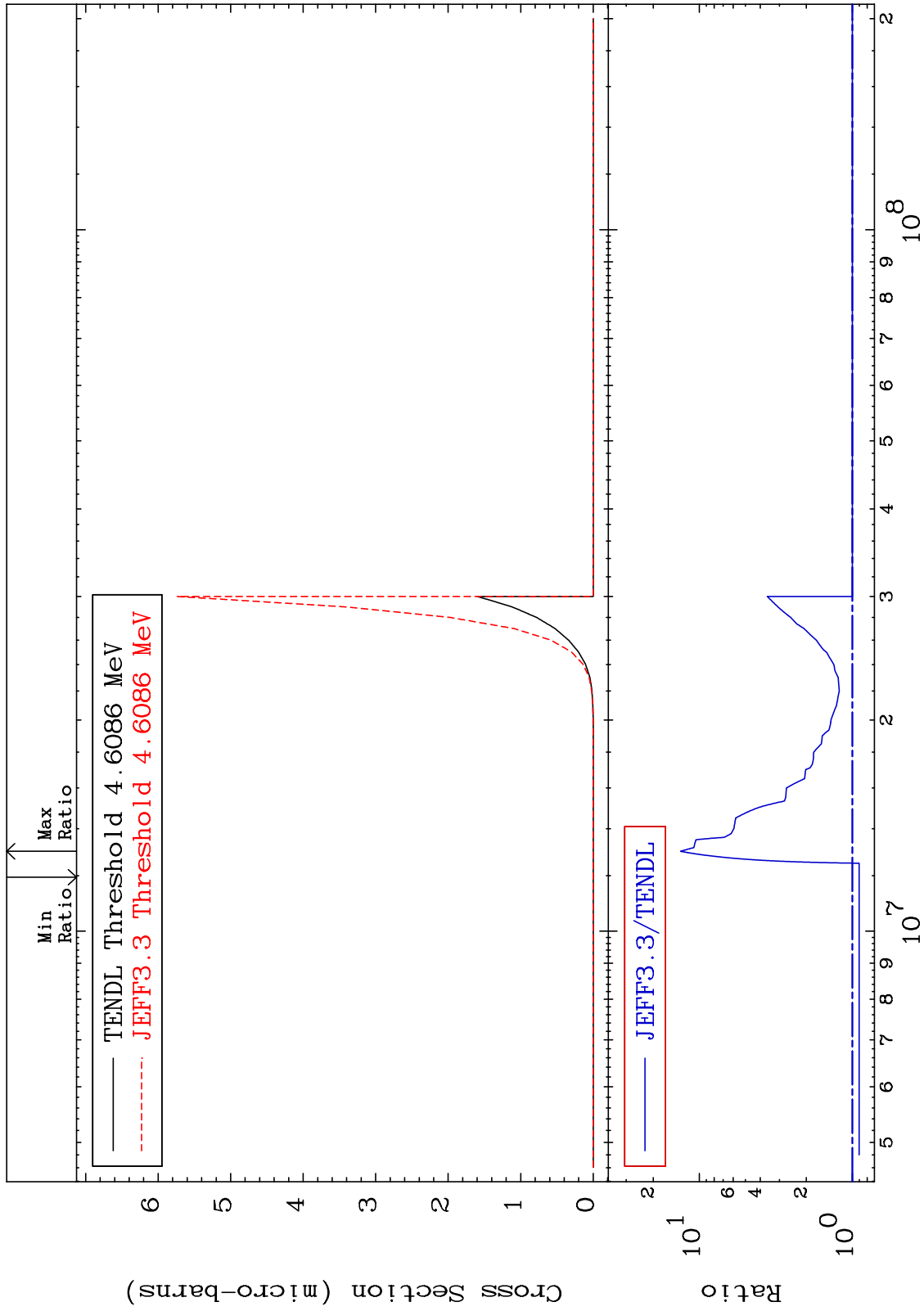
MAT 3440

(n, 2α)

34-Se-79

Cross Section

-9.703 To 1225. %



57

Incident Energy (eV)

34-Se-79

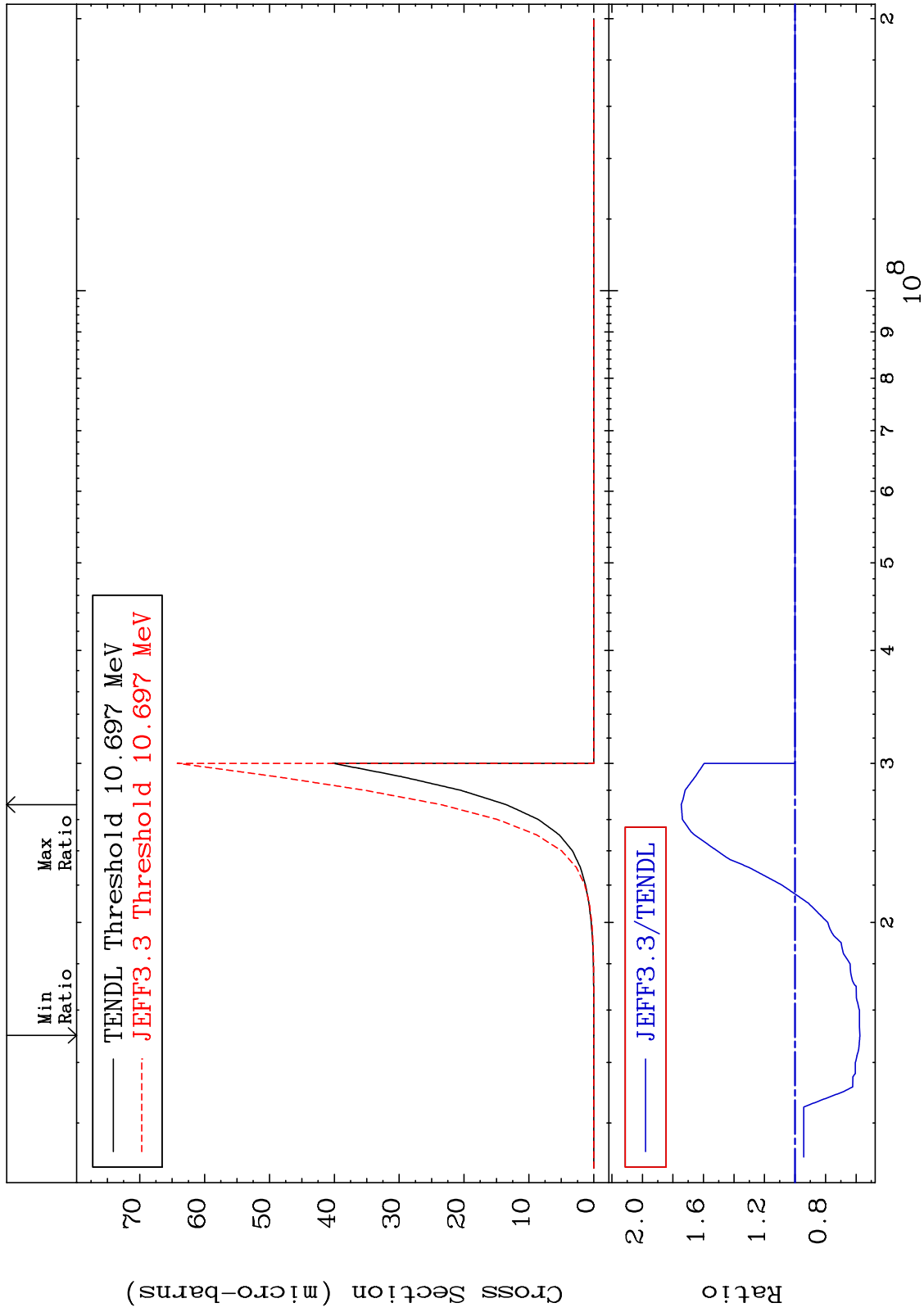
MAT 3440

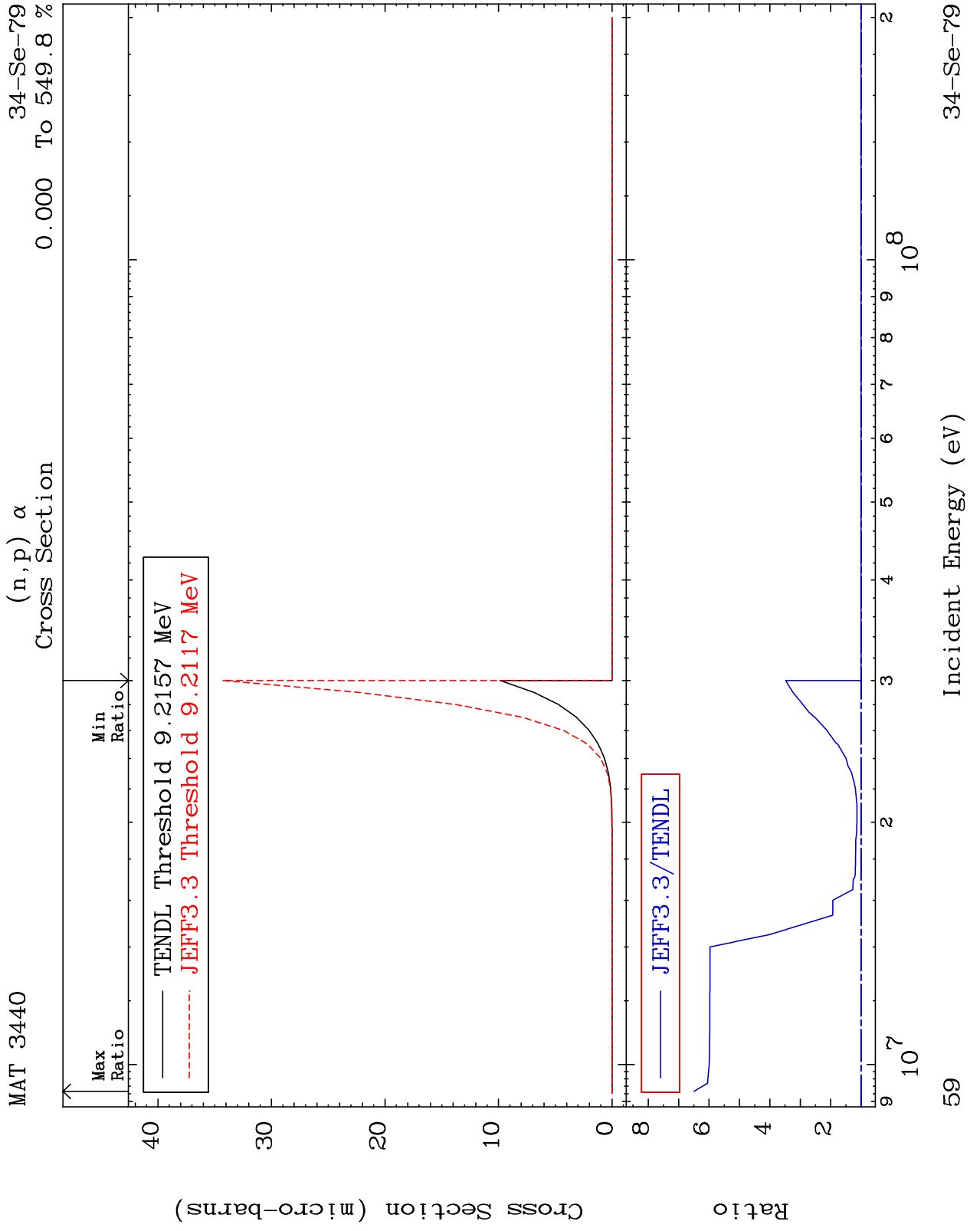
(n,2p)

³⁴Se-79

Cross Section

-42.54 To 74.57 %





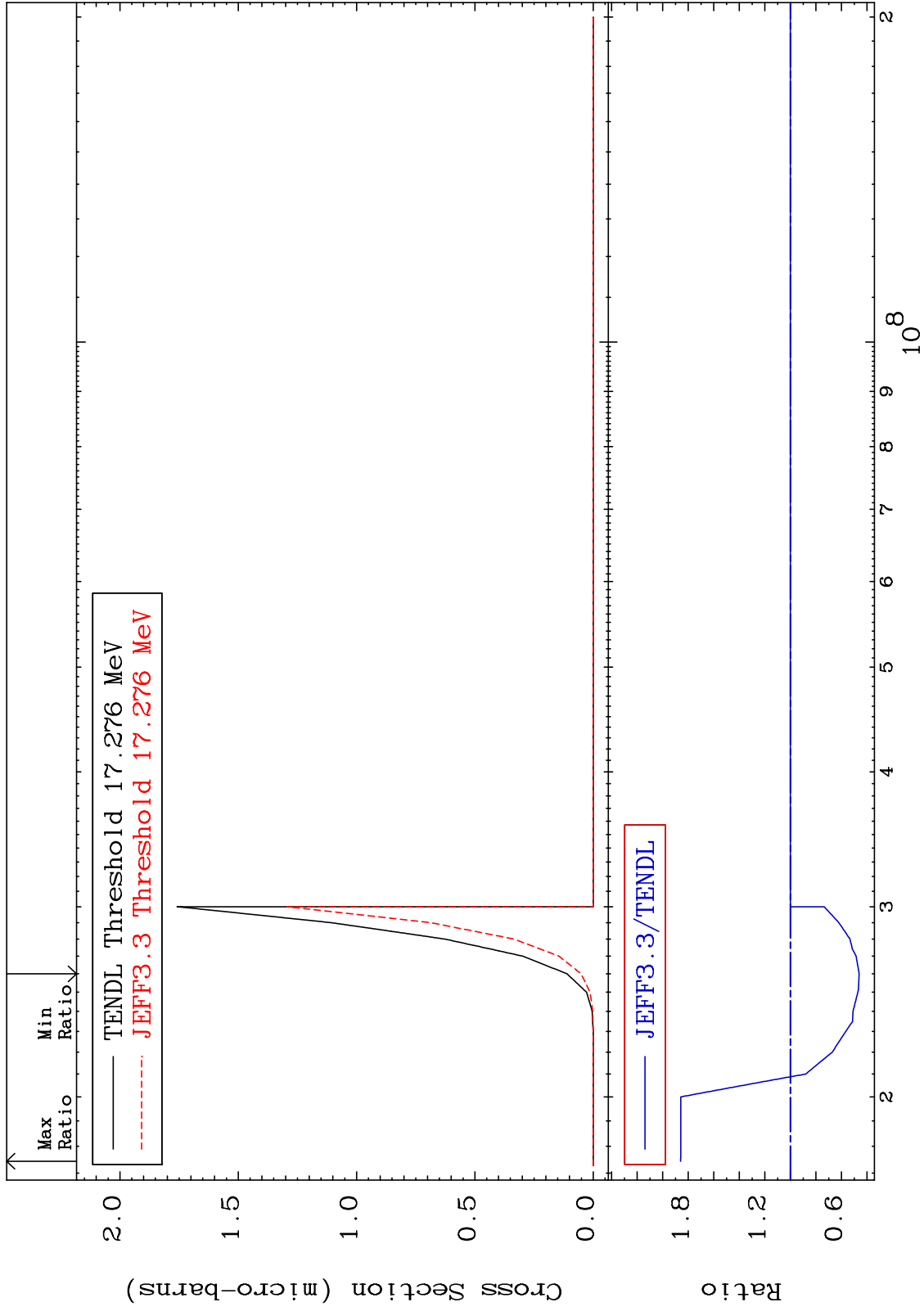
MAT 3440

(n,p) d

³⁴Se-79

Cross Section

-53.83 To 85.96 %



60

Incident Energy (eV)

³⁴Se-79

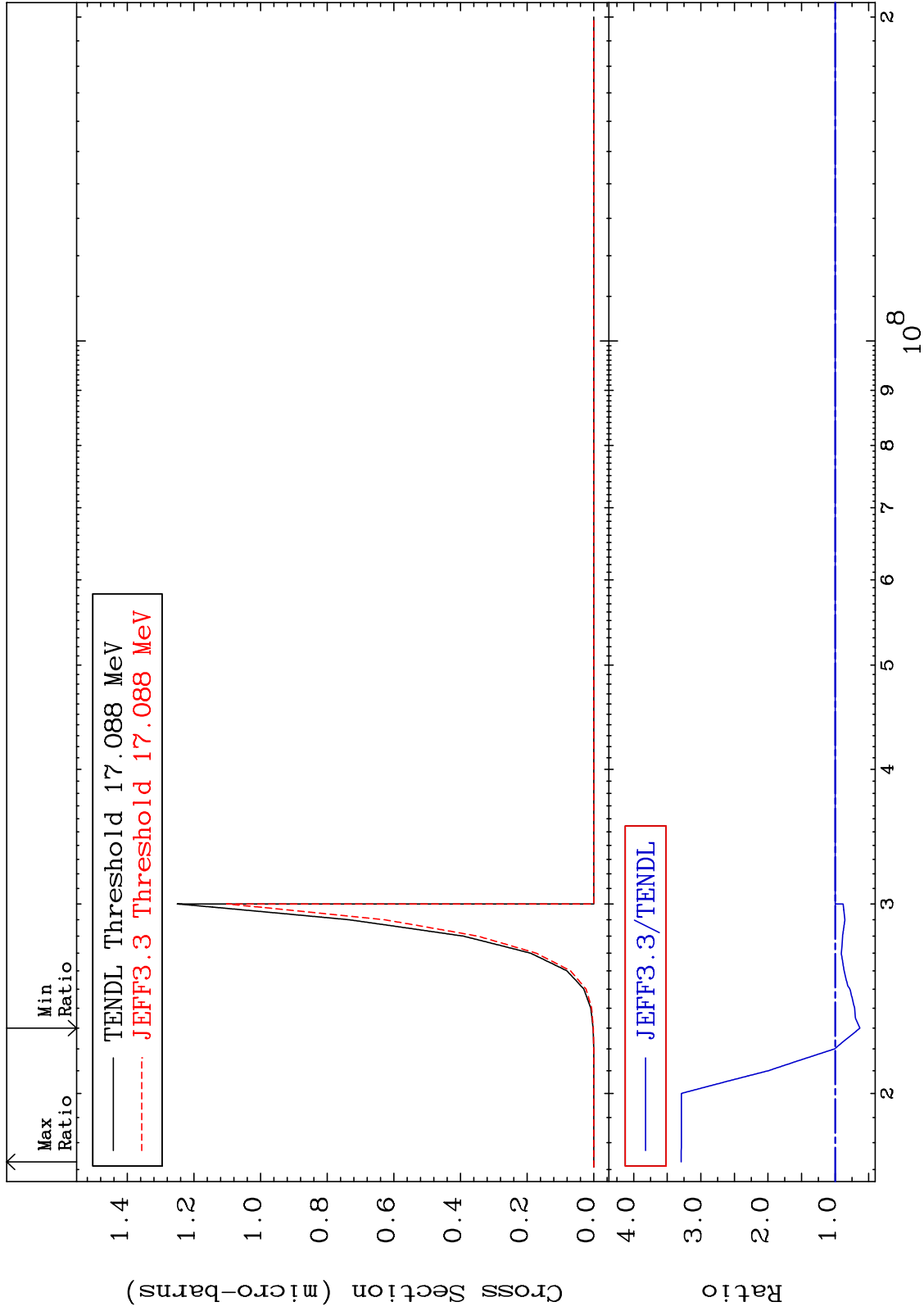
MAT 3440

(n,p) t

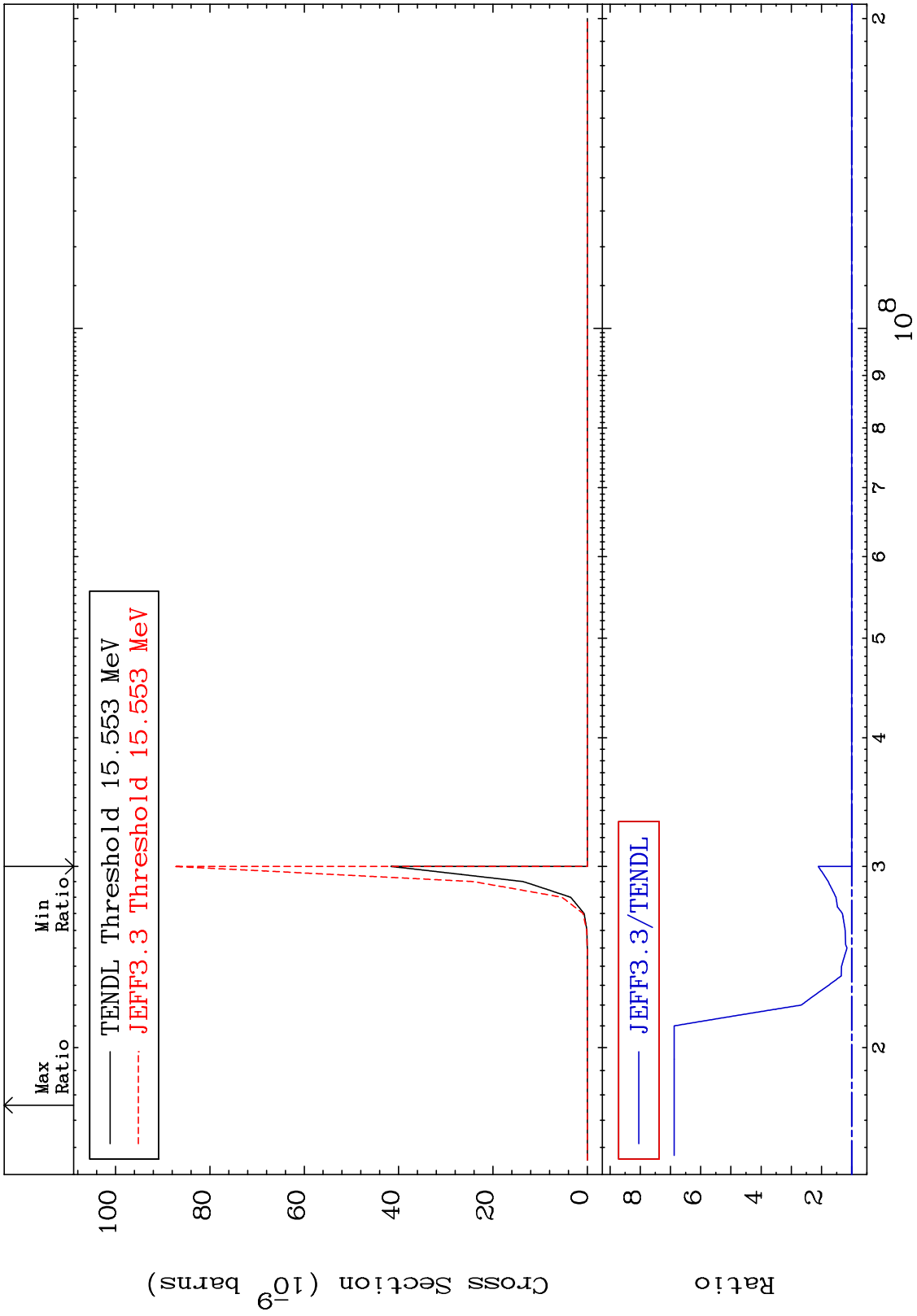
34-Se-79

Cross Section

-36.94 To 229.2 %



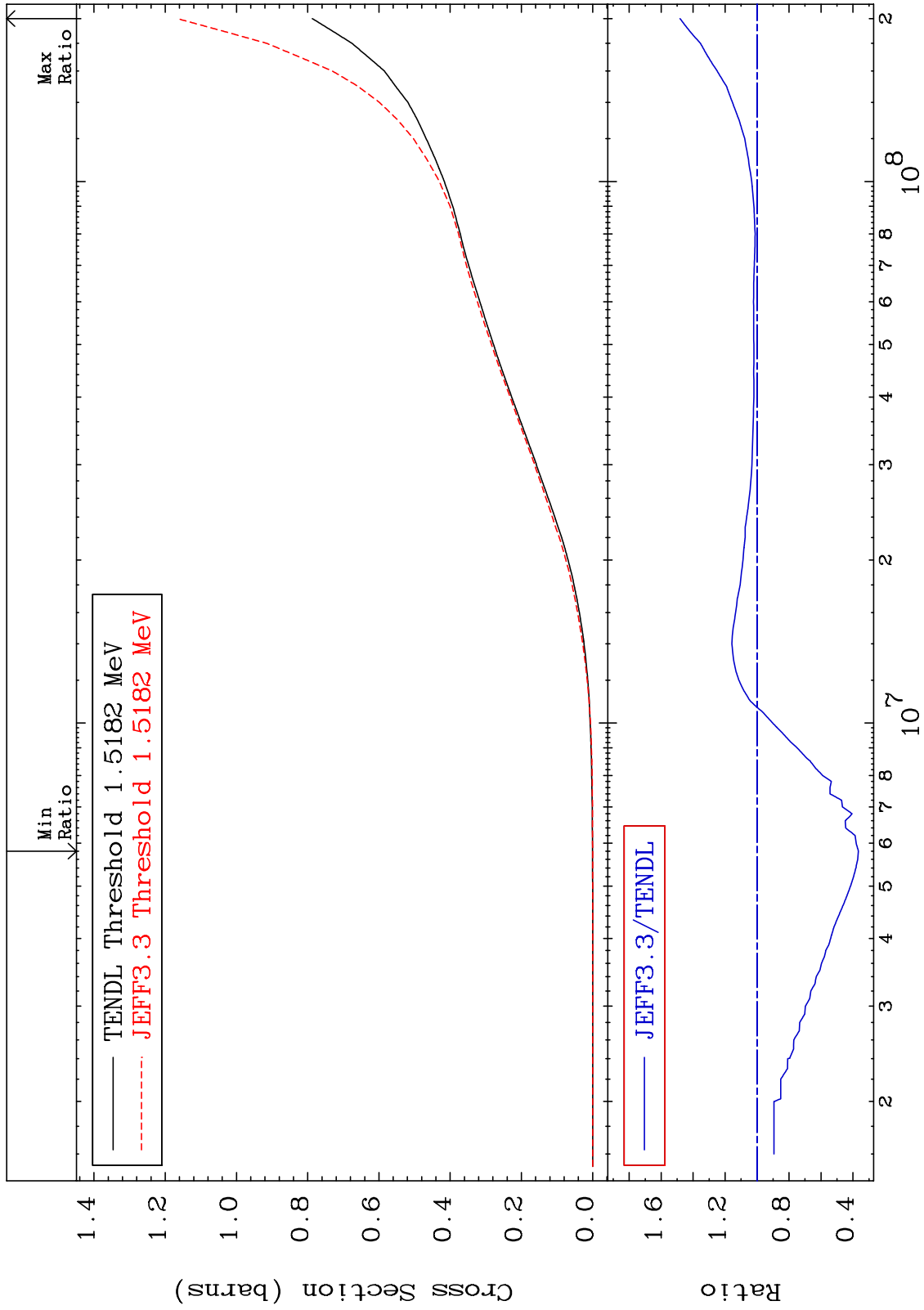
MAT 3440 (n,d) α Cross Section 34-Se-79 To 587.6 %



MAT 3440

Hydrogen Production
Cross Section

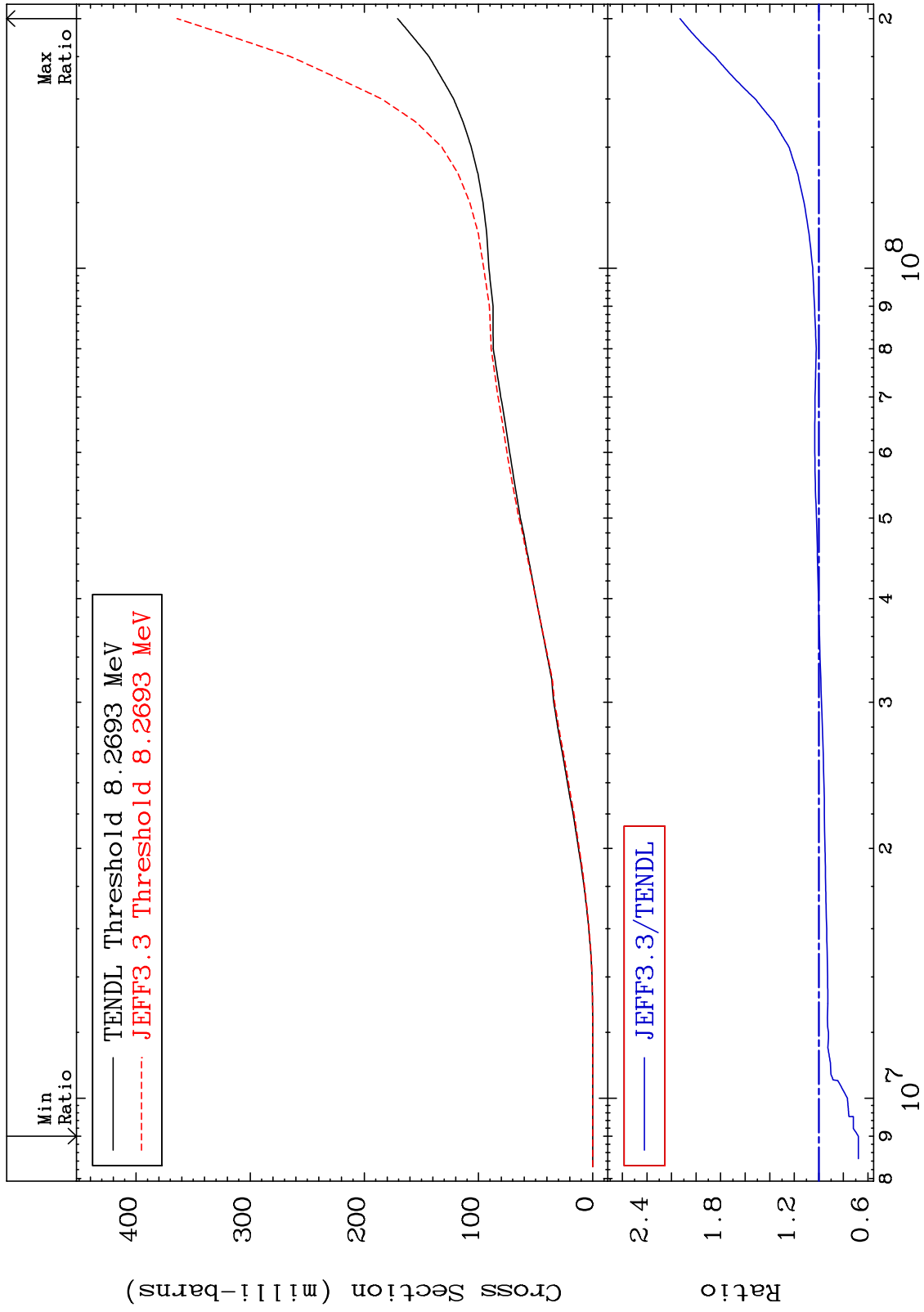
34-Se-79
-63.41 To 48.21 %



MAT 3440

Deuterium Production
Cross Section

$^{34}\text{Se-79}$
-32.23 To 113.1 %



64

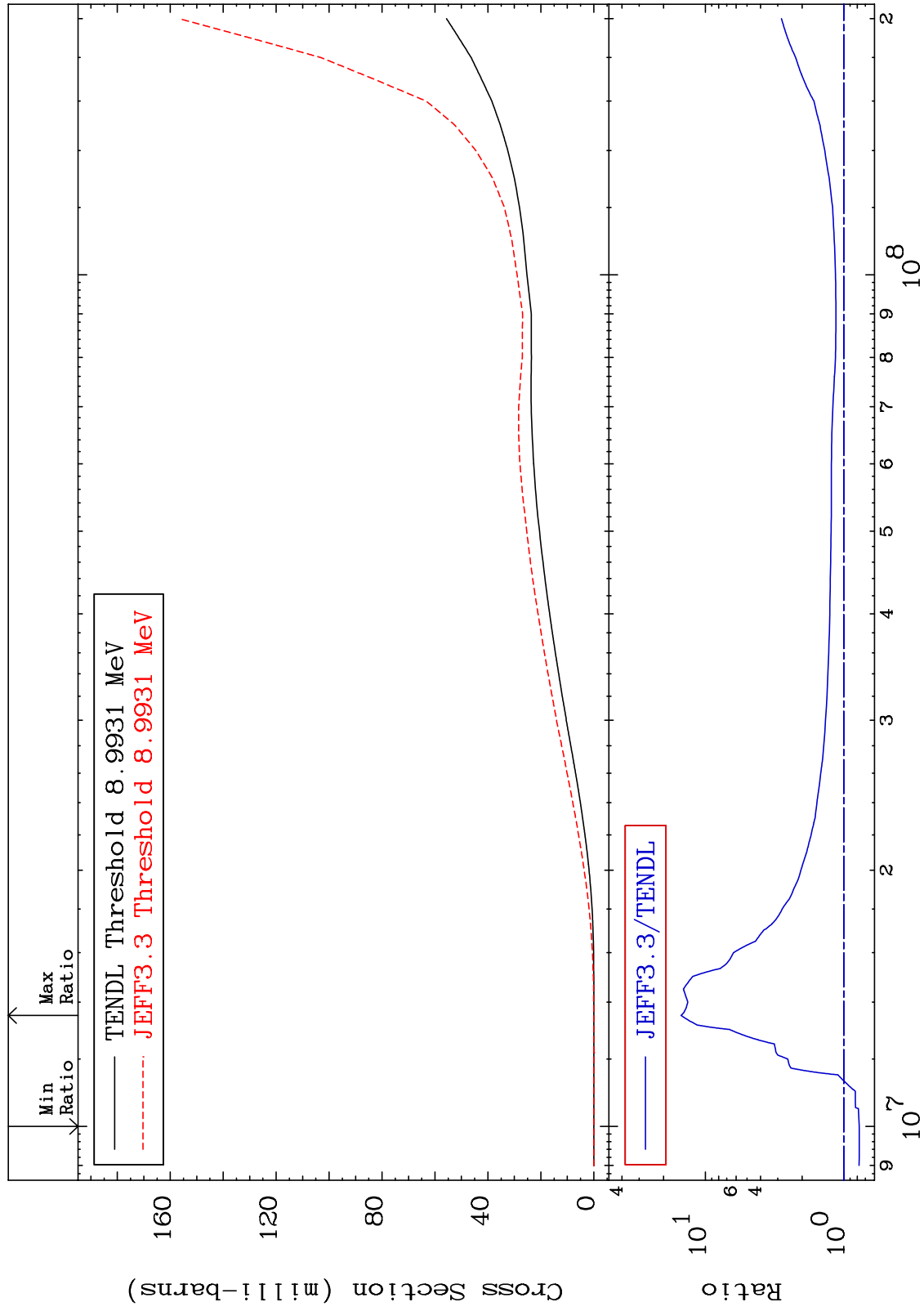
Incident Energy (eV)

$^{34}\text{Se-79}$

MAT 3440

Tritium Production
Cross Section

³⁴Se-79
-22.71 To 1397. %



65

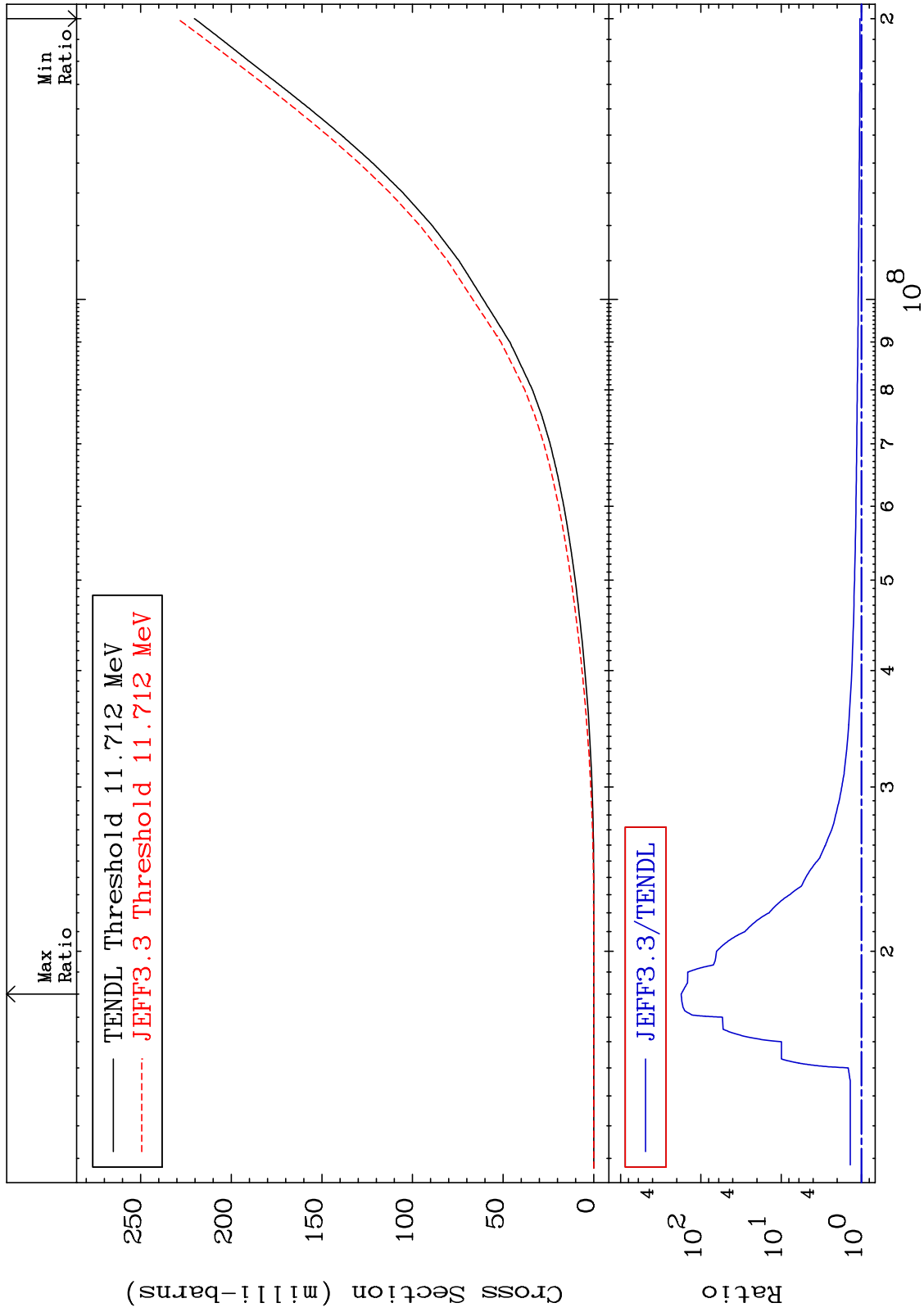
Incident Energy (eV)

³⁴Se-79

MAT 3440

He-3 Production
Cross Section

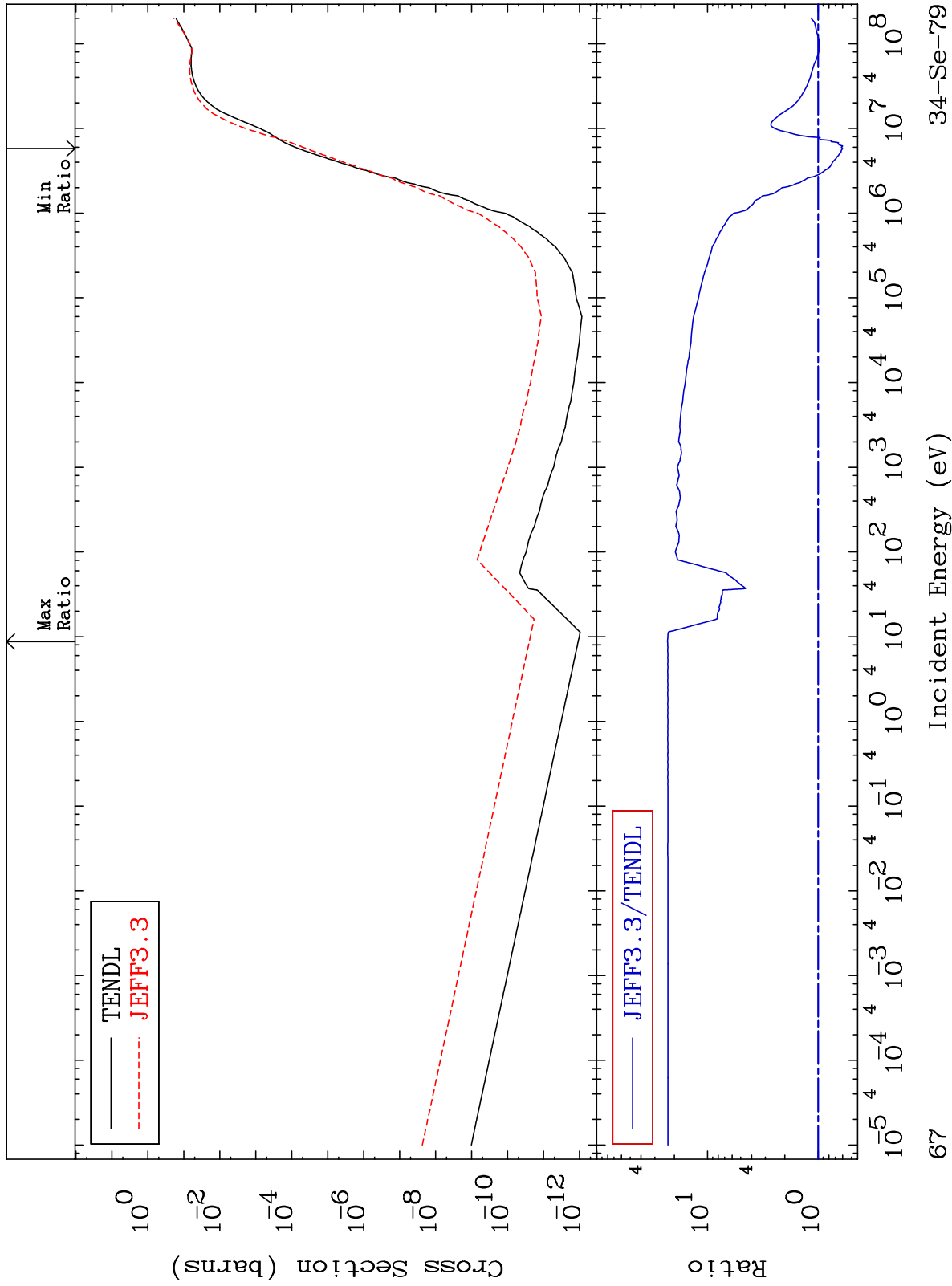
34-Se-79
4.283 To 9999. %



MAT 3440

He-4 Production
Cross Section

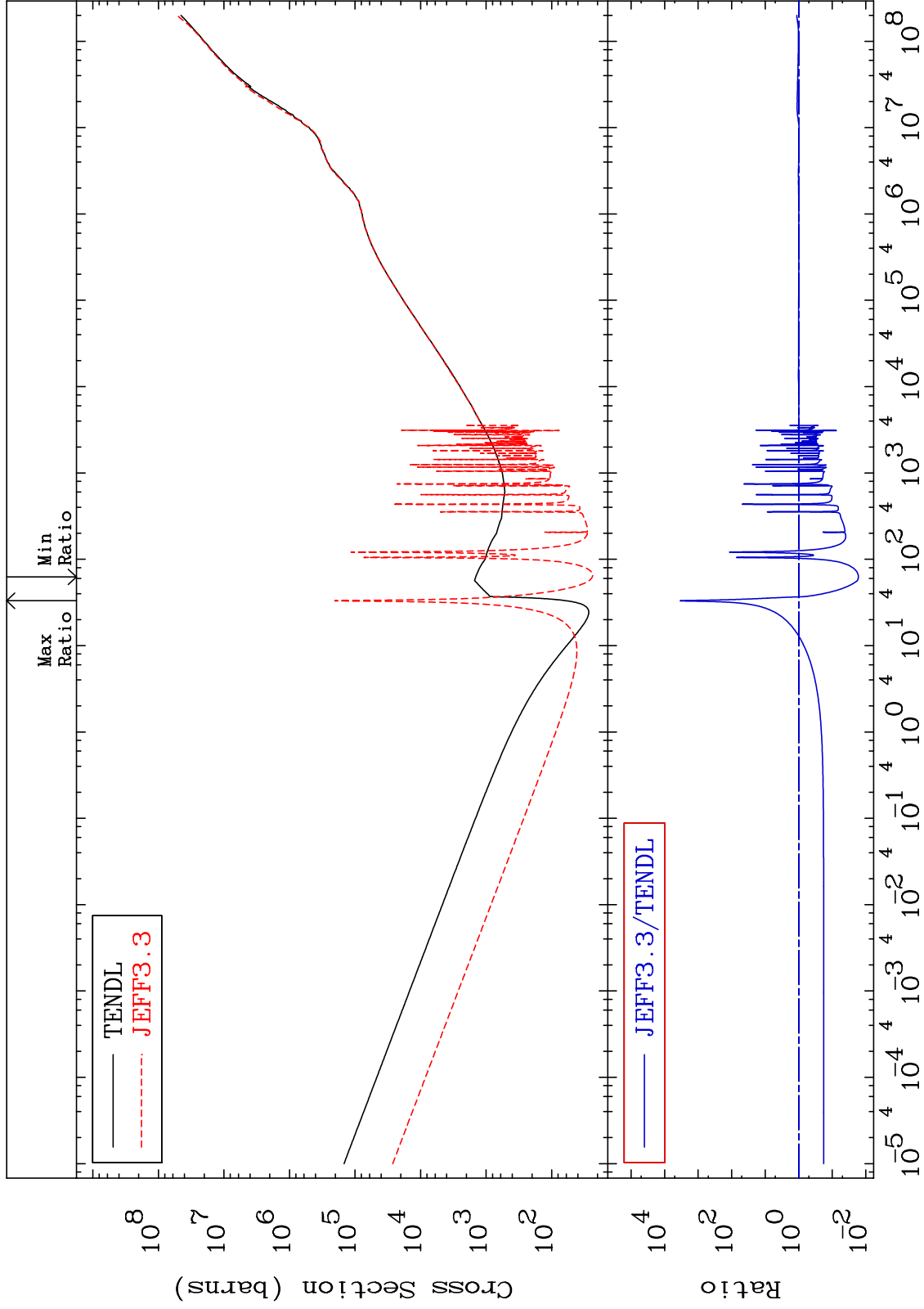
34-Se-79
-40.03 To 2198. %



MAT 3440

Kerma total (eV-barns)
Cross Section

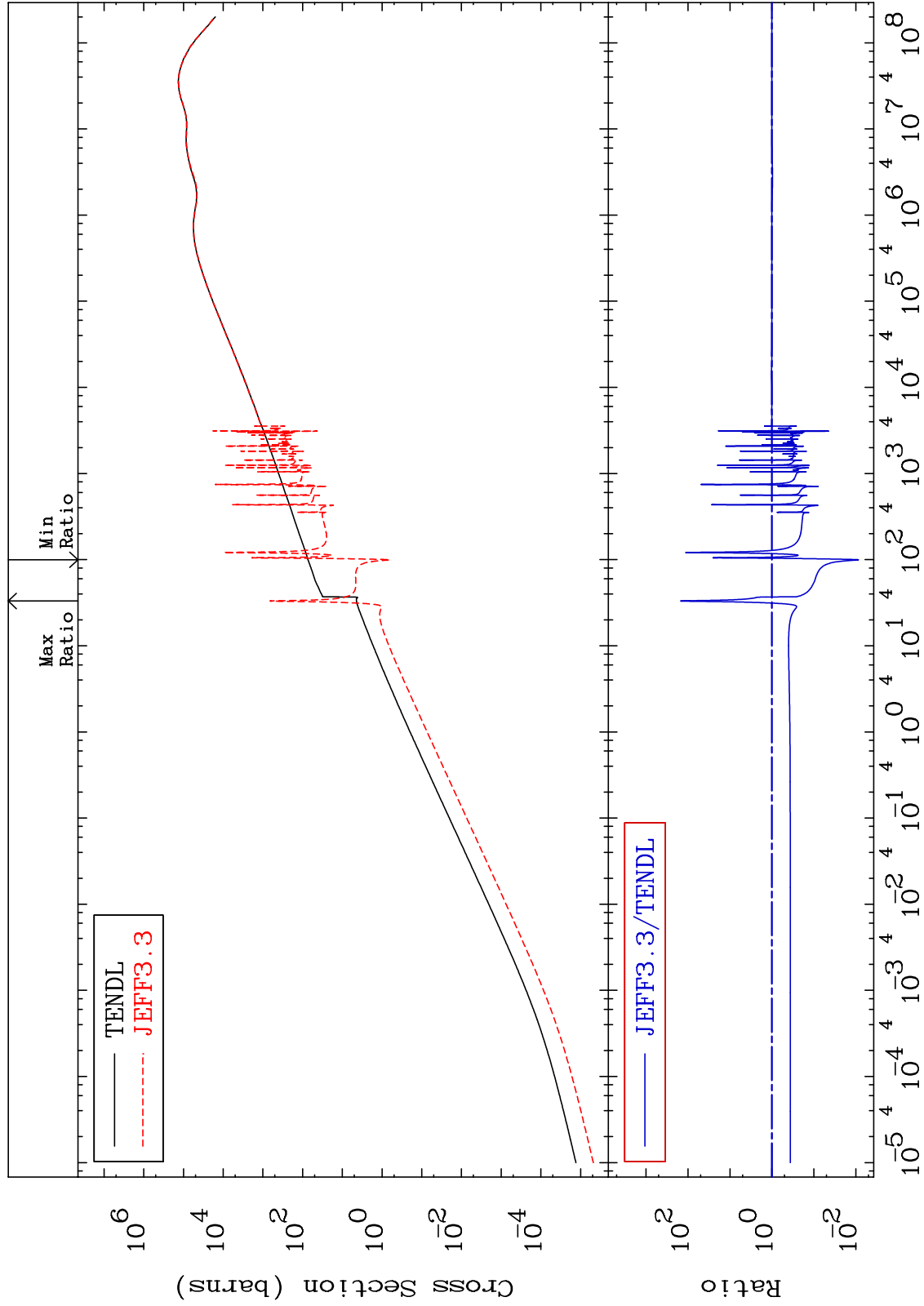
34-Se-79
-98.34 To 9999. %



MAT 3440

Kerma elastic
Cross Section

34-Se-79
-99.14 To 9999. %



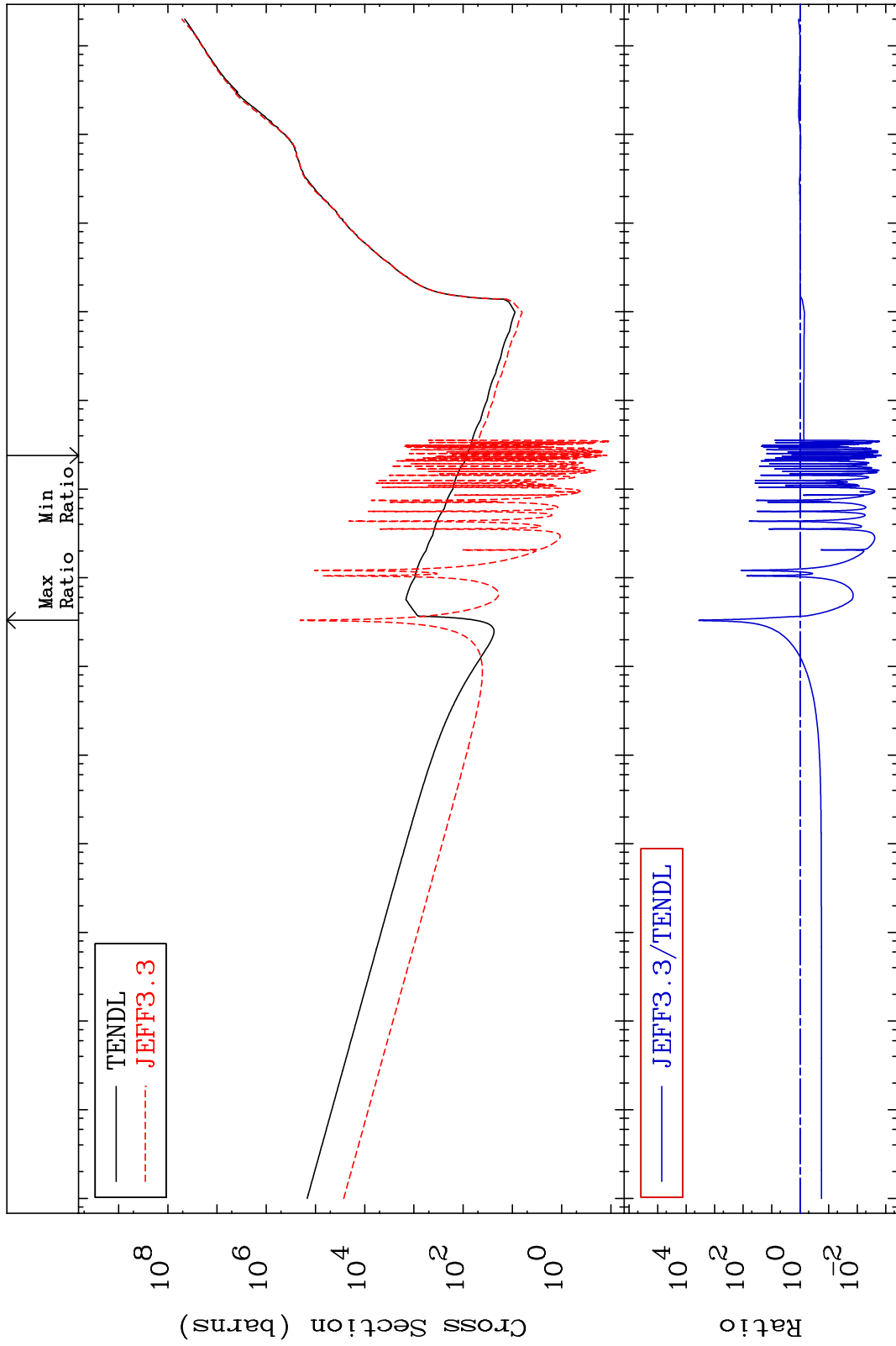
— TENDL
- - - JEFF3.3

— JEFF3.3/TENDL

MAT 3440

Kerma non-elastic (all but mt2)
Cross Section

34-Se-79
-99.86 To 9999. %



70

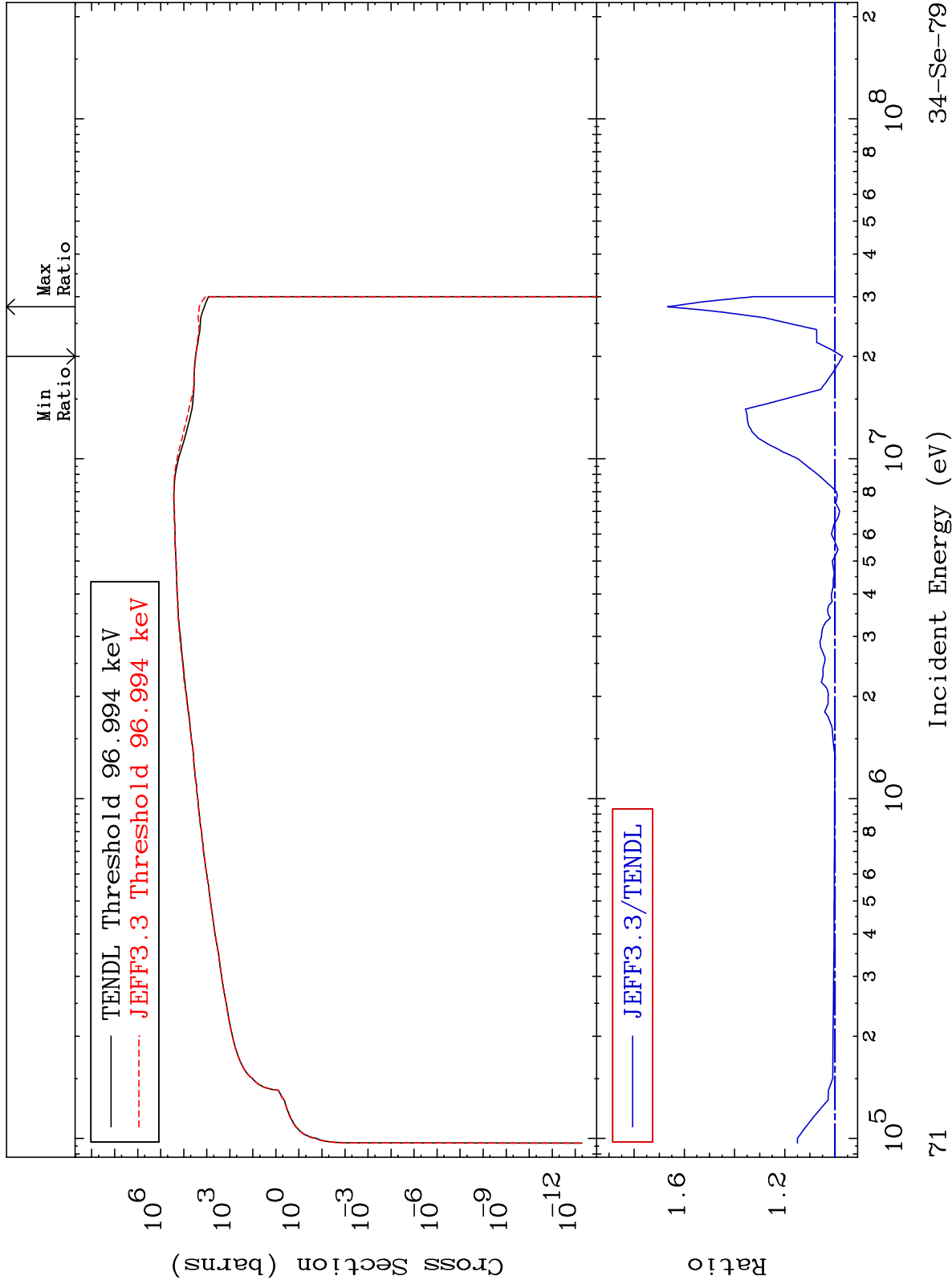
Incident Energy (eV)

34-Se-79

MAT 3440

Kerma inelastic (mt51-91)
Cross Section

34-Se-79
-3.049 To 66.69 %



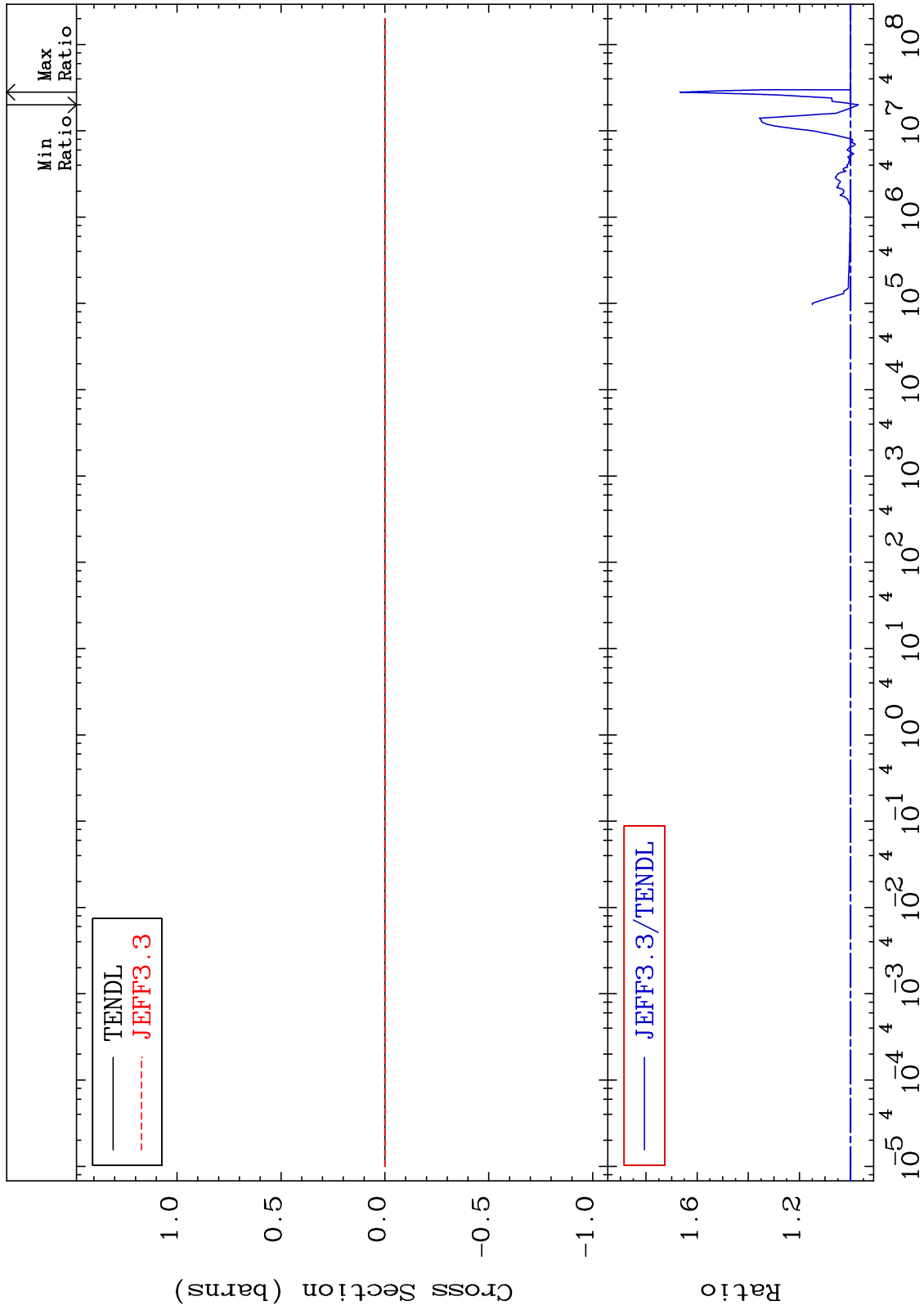
34-Se-79

71

MAT 3440

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

34-Se-79
-3.049 To 66.69 %



72

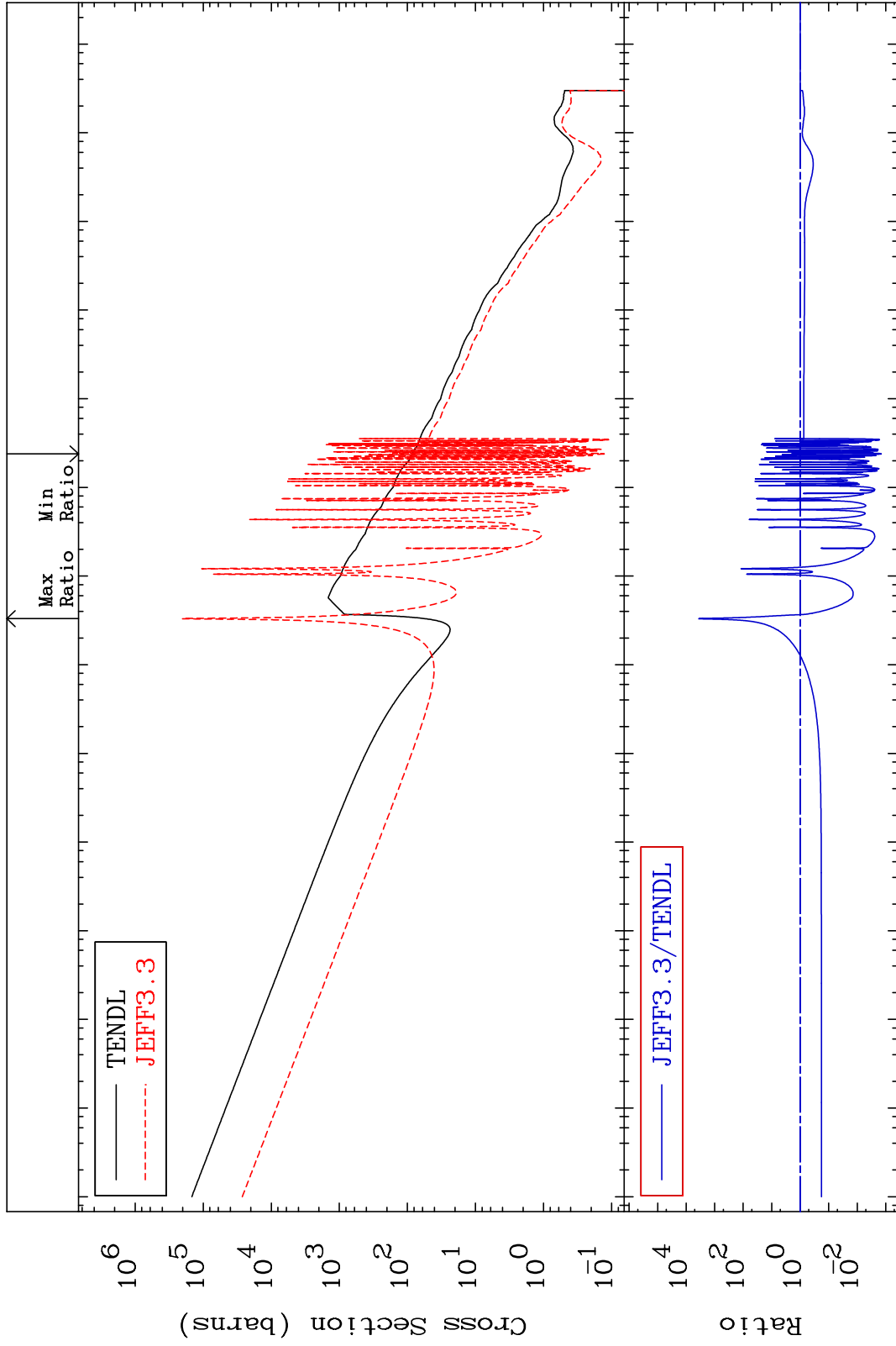
Incident Energy (eV)

34-Se-79

MAT 3440

Kerma capture (mt102)
Cross Section

34-Se-79
-99.86 To 9999. %



73

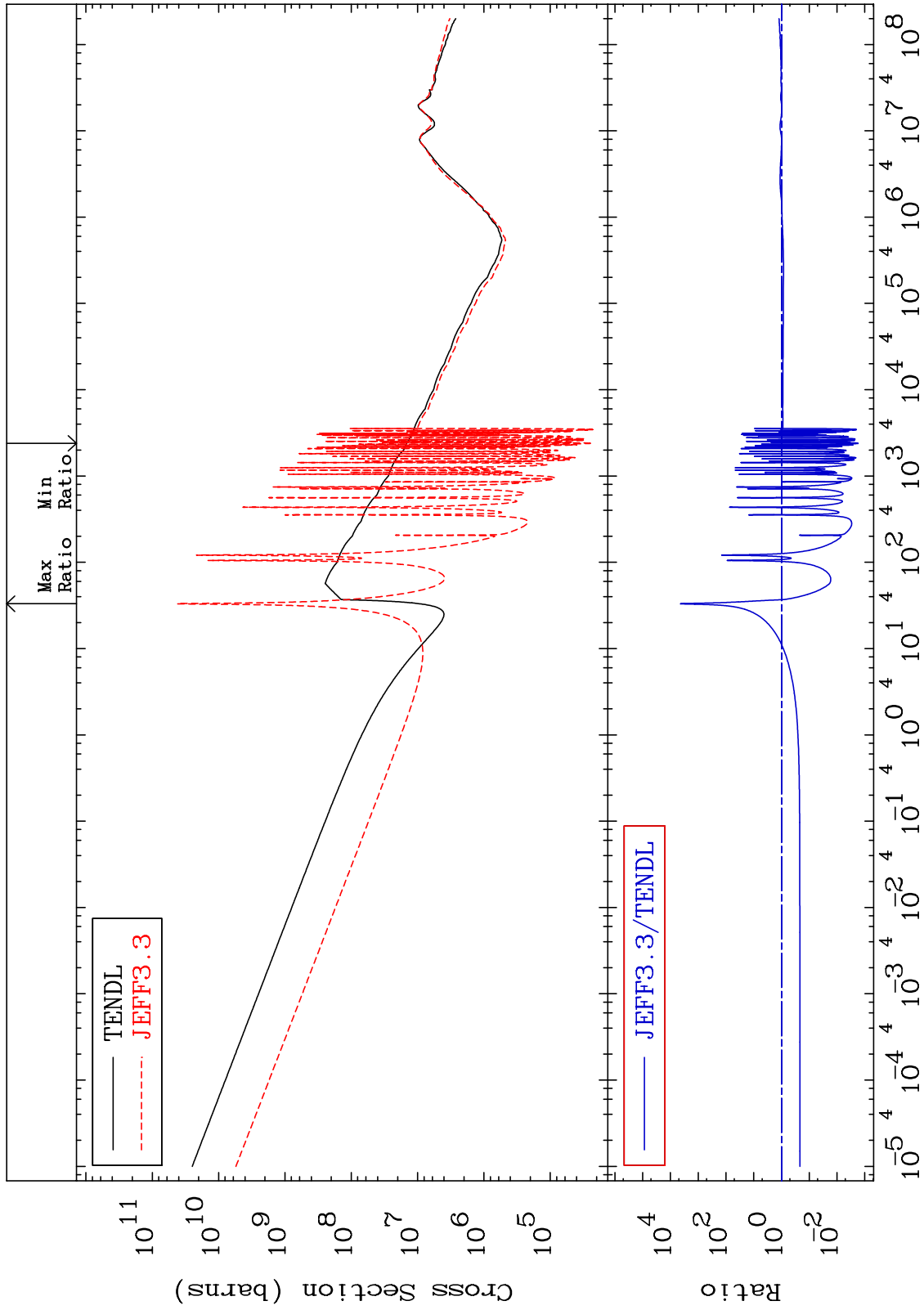
Incident Energy (eV)

34-Se-79

MAT 3440

Total photon (eV-barns)
Cross Section

34-Se-79
-99.83 To 9999. %



74

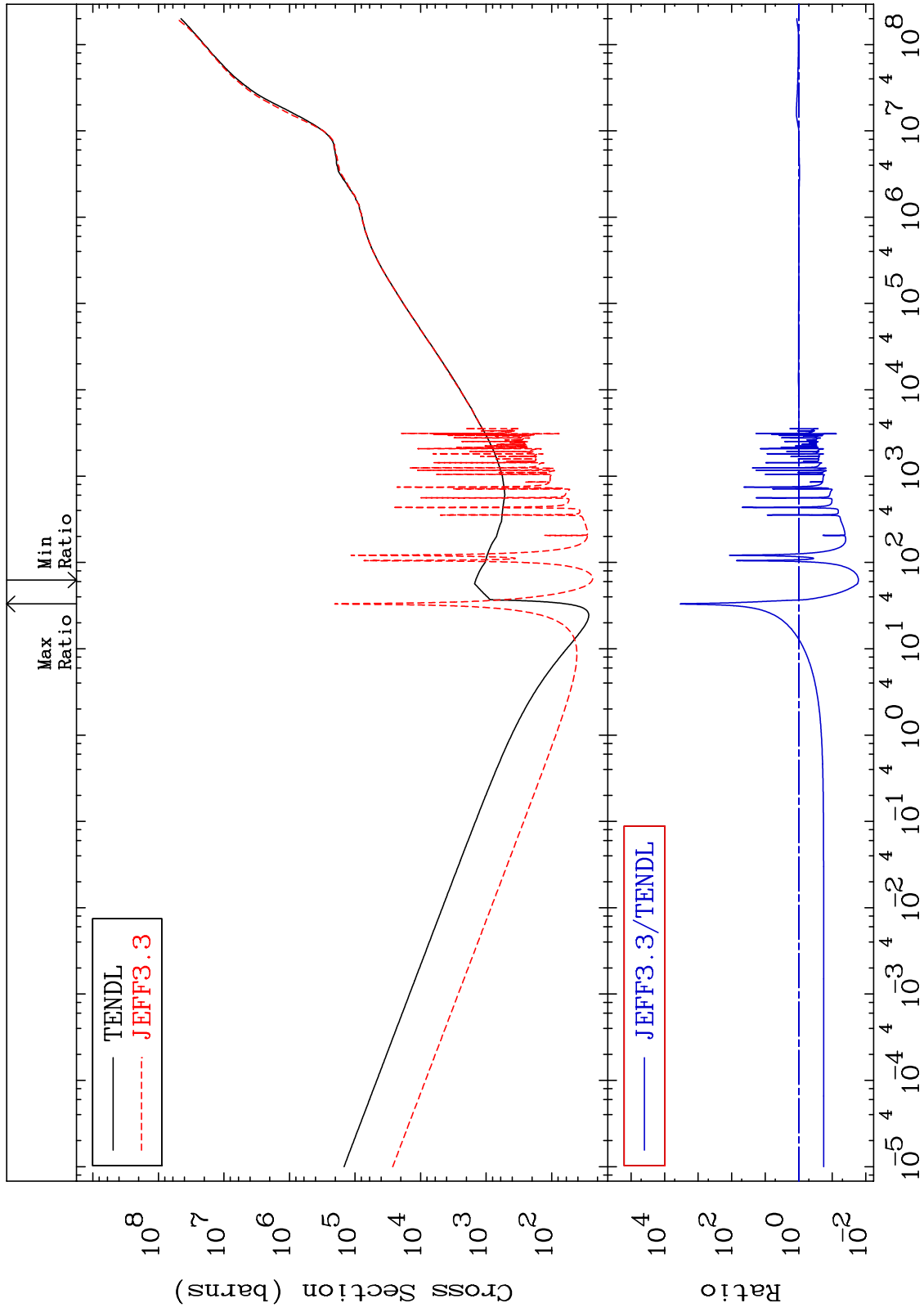
Incident Energy (eV)

34-Se-79

MAT 3440

Total kinematic kerma (high limit)
Cross Section

34-Se-79
-98.34 To 9999. %



75

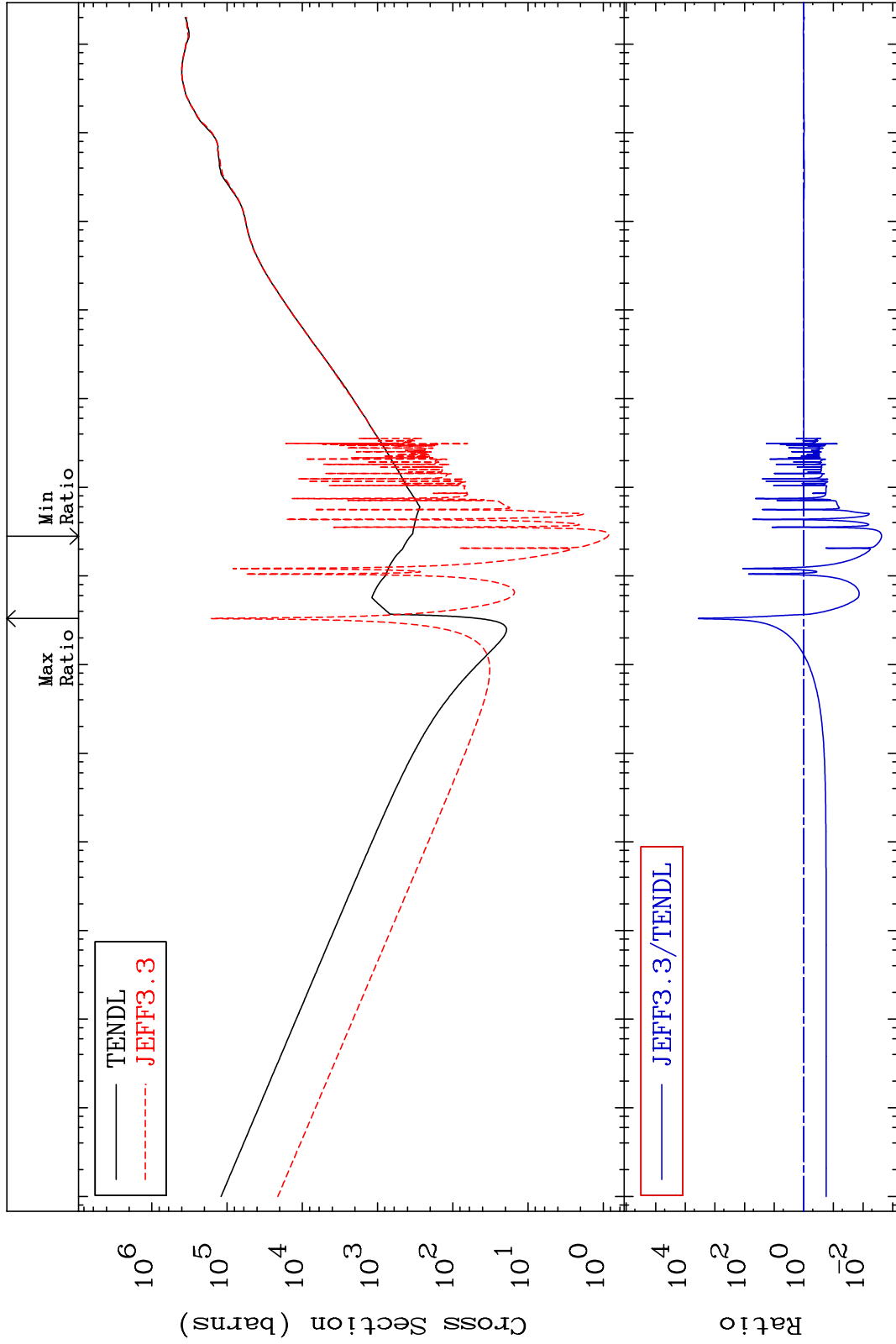
Incident Energy (eV)

34-Se-79

MAT 3440

Dpa total (eV-barns)
Cross Section

34-Se-79
-99.76 To 9999. %



76

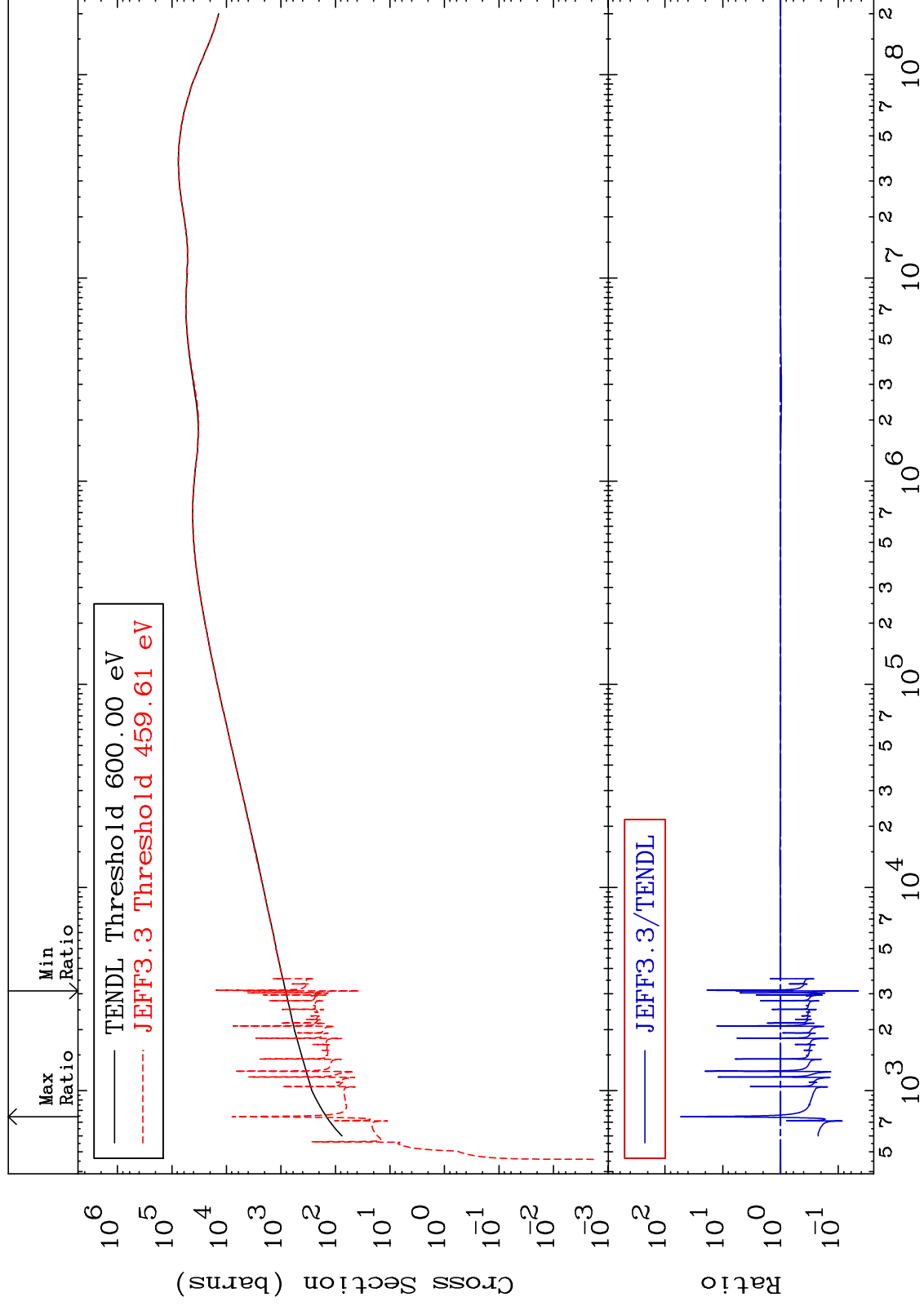
Incident Energy (eV)

34-Se-79

MAT 3440

Dpa elastic (mt2)
Cross Section

34-Se-79
-95.53 To 5304. %



77

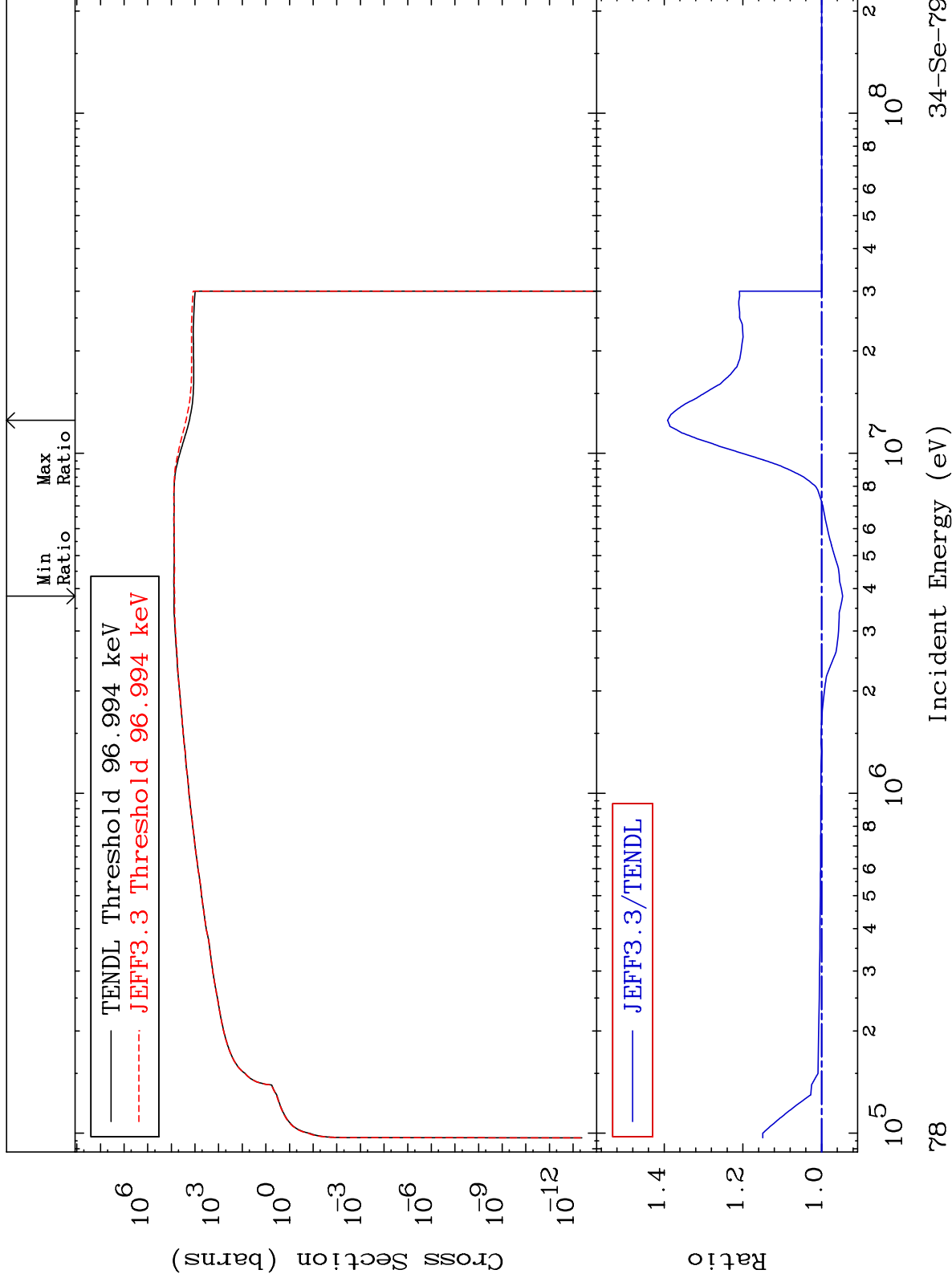
Incident Energy (eV)

34-Se-79

MAT 3440

Dpa inelastic (mt51-91)
Cross Section

34-Se-79
-5.354 To 39.15 %



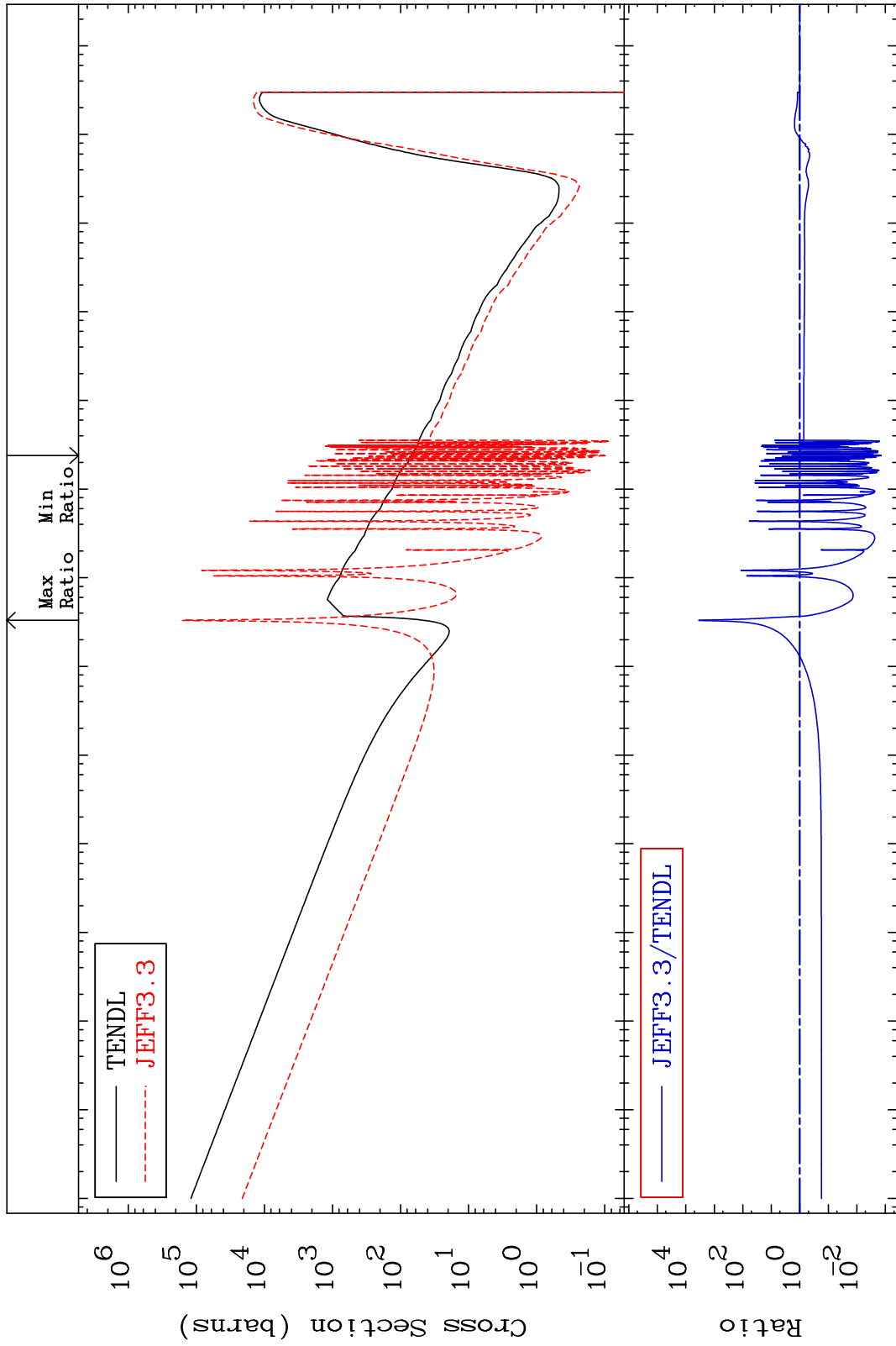
78

34-Se-79

MAT 3440

Dpa disappearance (mt102 -120)
Cross Section

34-Se-79
-99.86 To 9999. %



79

Incident Energy (eV)

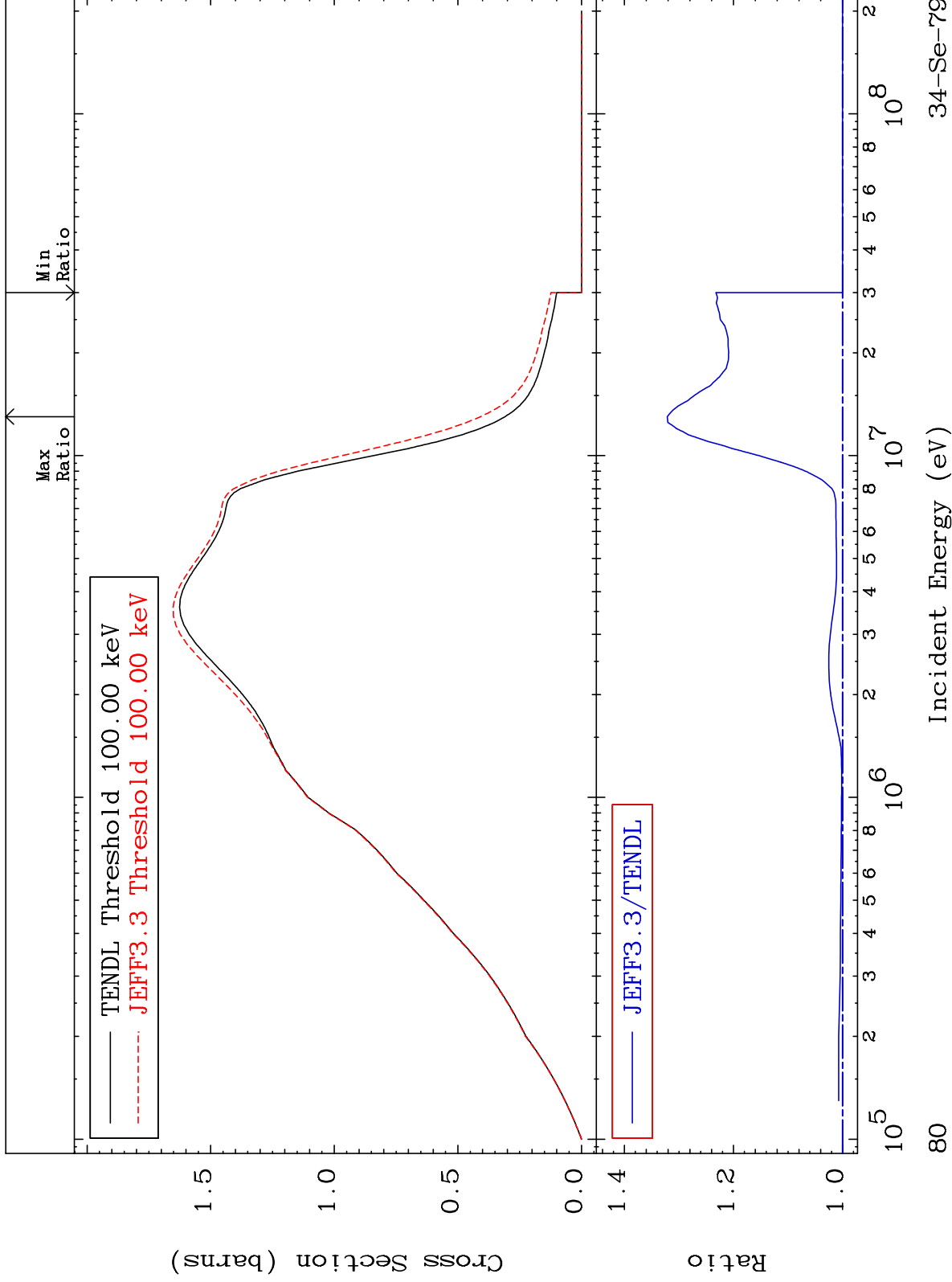
34-Se-79

MAT 3440

³⁴Se-79

Inelastic:³⁴Se-79g

Radionuclide Production Cross Section 0.000 To 32.13 %

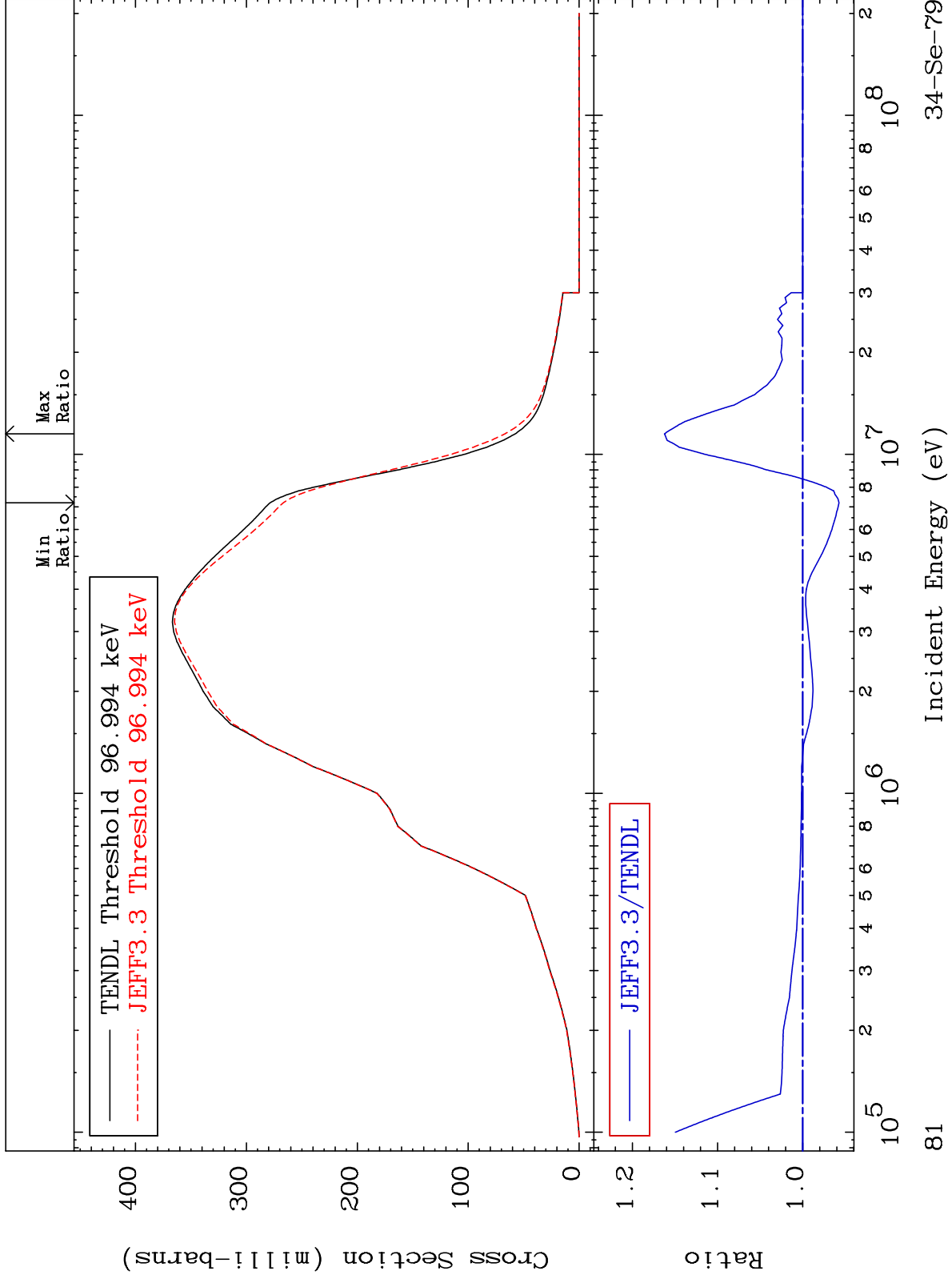


MAT 3440

Inelastic:34-Se-79m1

34-Se-79

Radionuclide Production Cross Section -4.267 To 16.24 %

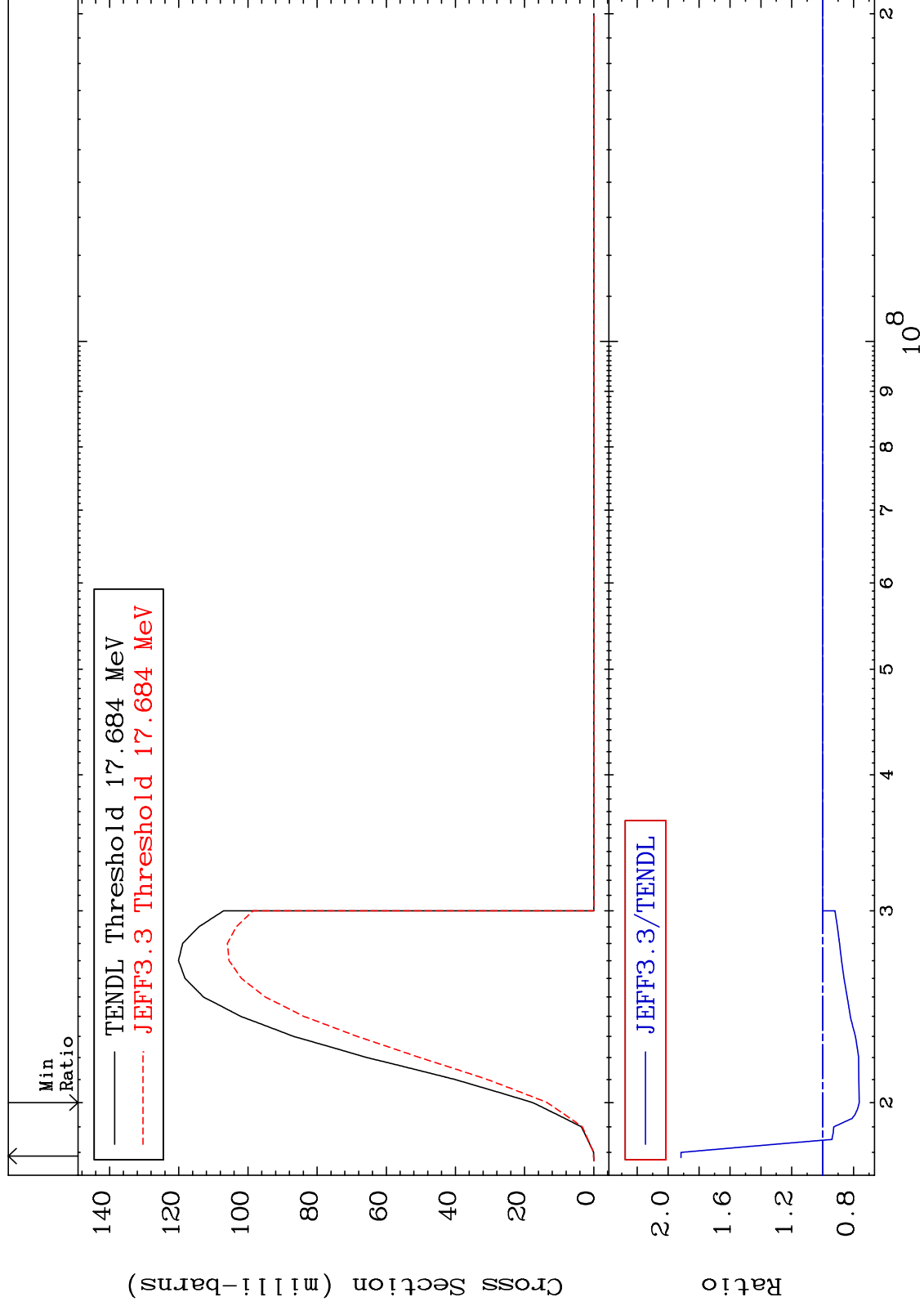


MAT 3440

(n,3n):34-Se-77g

34-Se-79

Radionuclide Production Cross Section -23.67 To 91.62 %

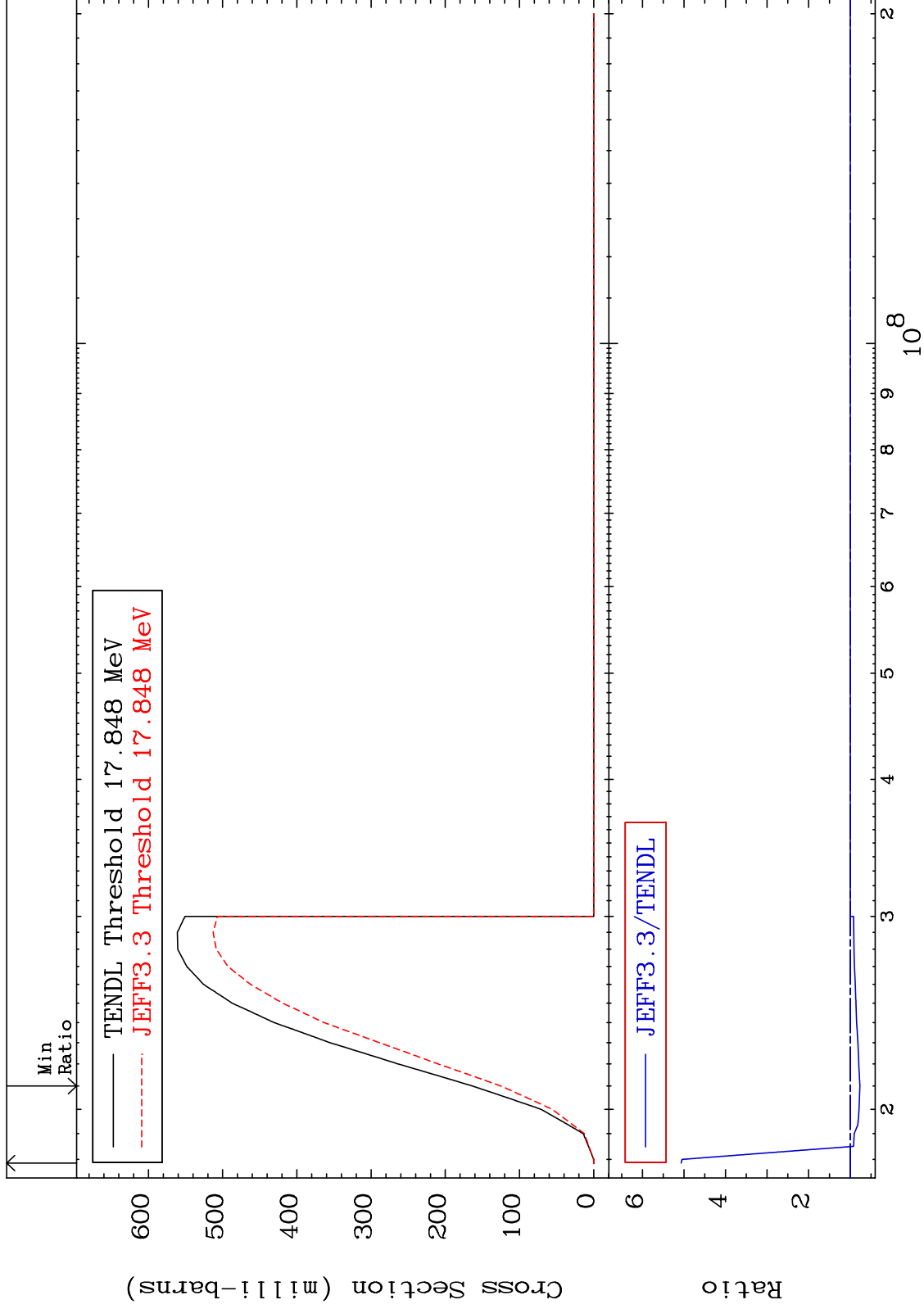


MAT 3440

(n,3n):34-Se-77m1

34-Se-79

Radionuclide Production Cross Section -23.45 To 406.6 %

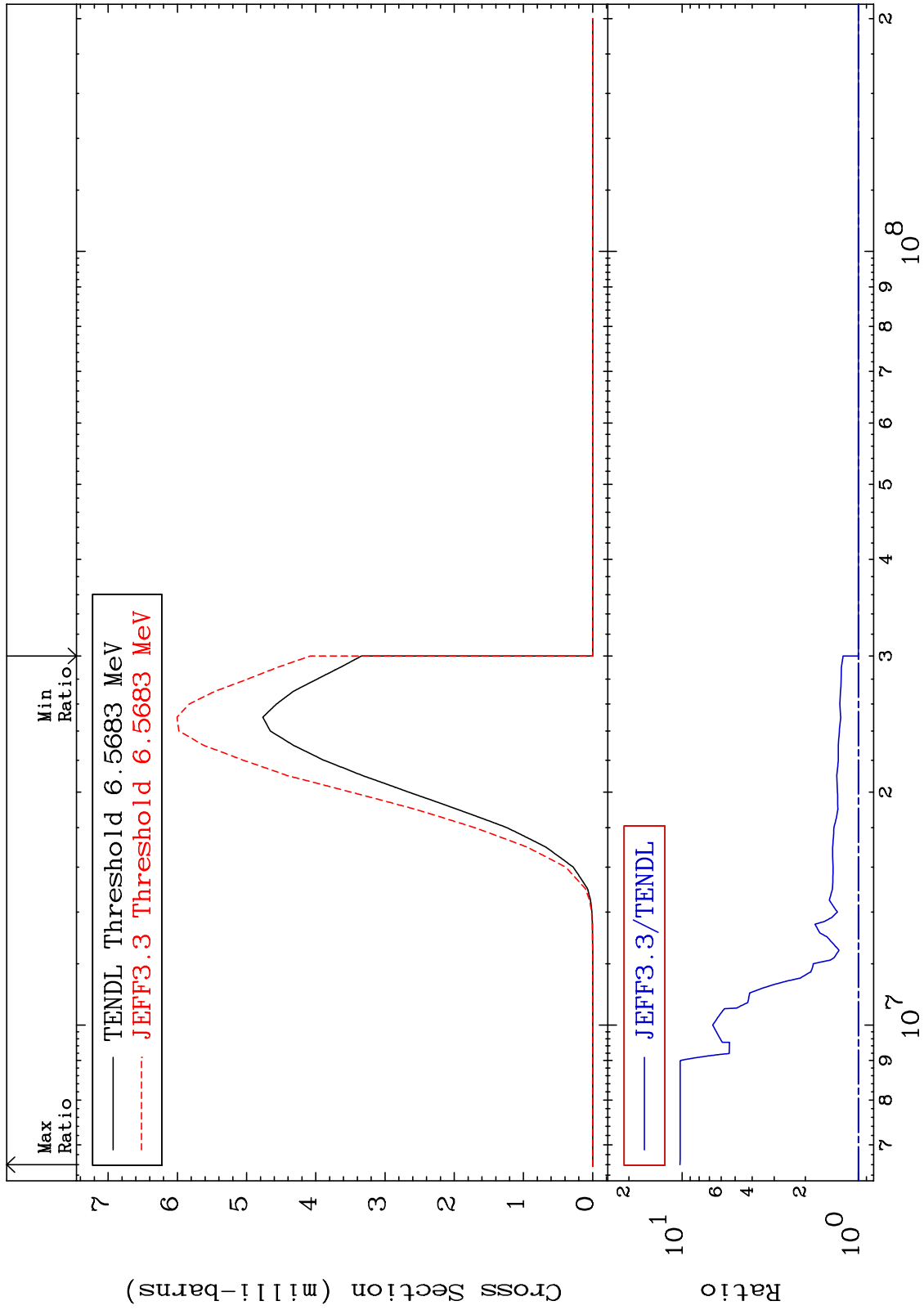


MAT 3440

(n, n') α : 32-Ge-75g

34-Se-79

Radionuclide Production Cross Section 0.000 To 926.5 %

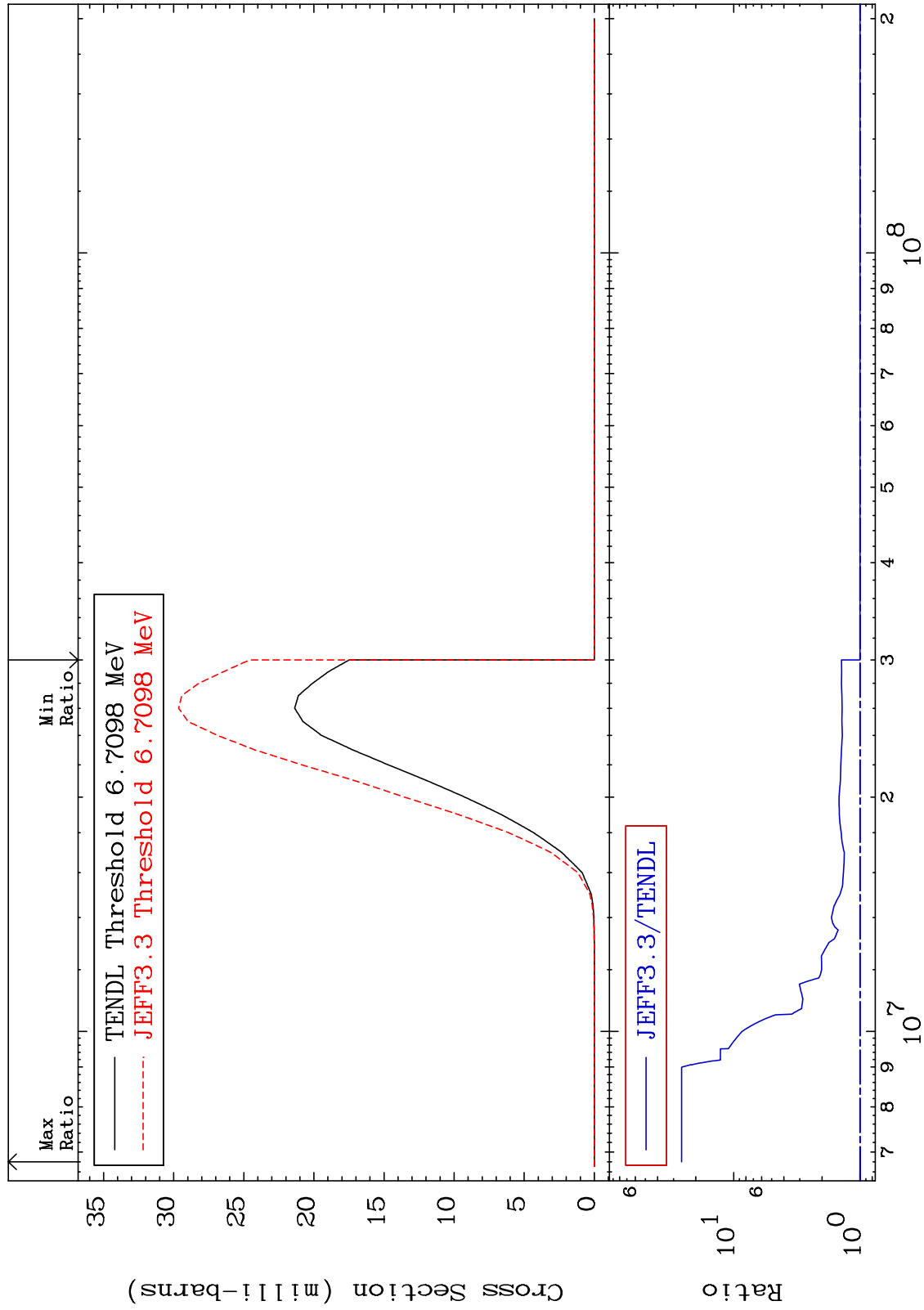


MAT 3440

(n, n') α :32-Ge-75m2

34-Se-79

Radionuclide Production Cross Section 0.000 To 2482. %



85

Incident Energy (eV)

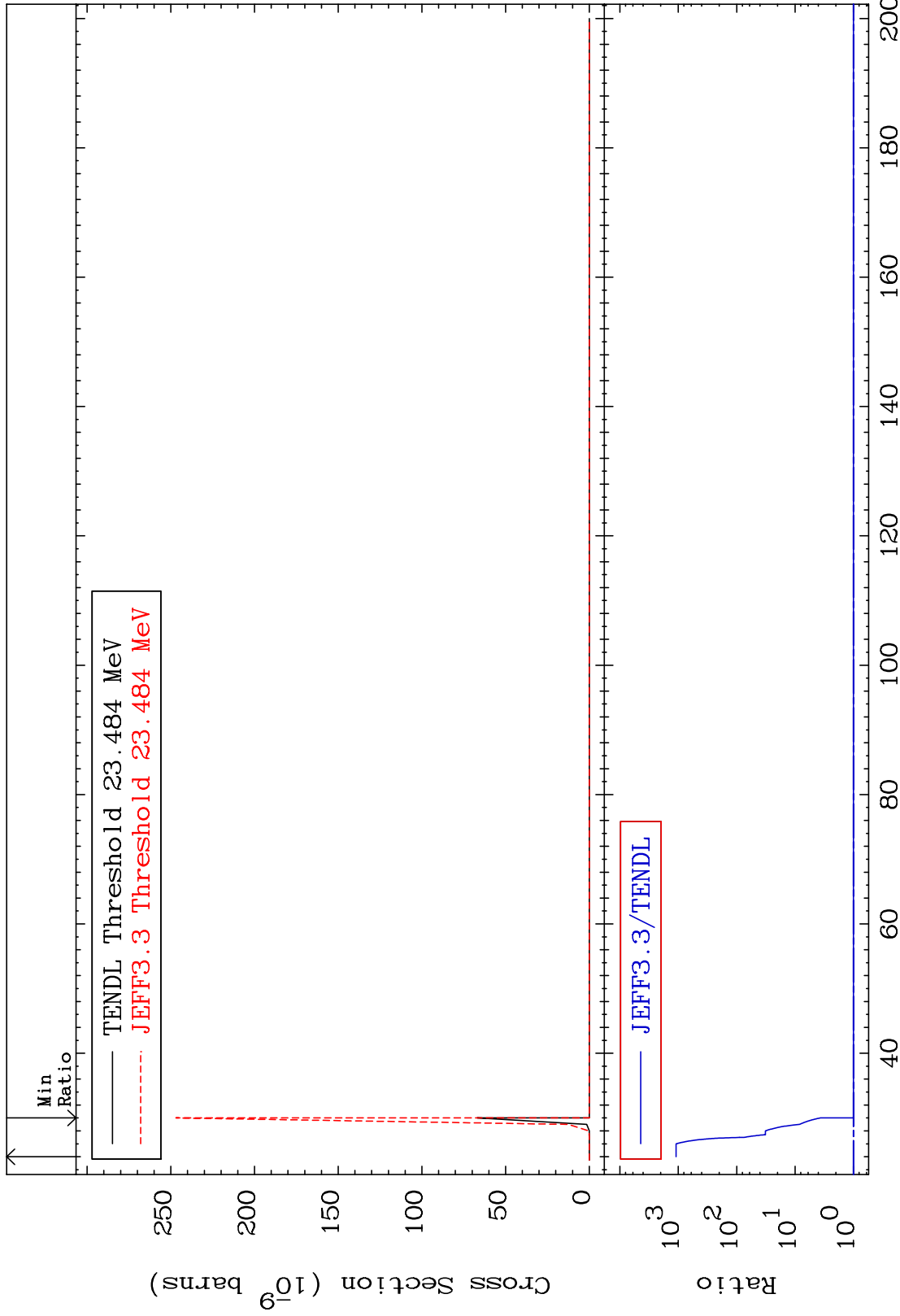
34-Se-79

MAT 3440

(n,3n) α :32-Ge-73g

34-Se-79

Radionuclide Production Cross Section 0.000 To 9999. %

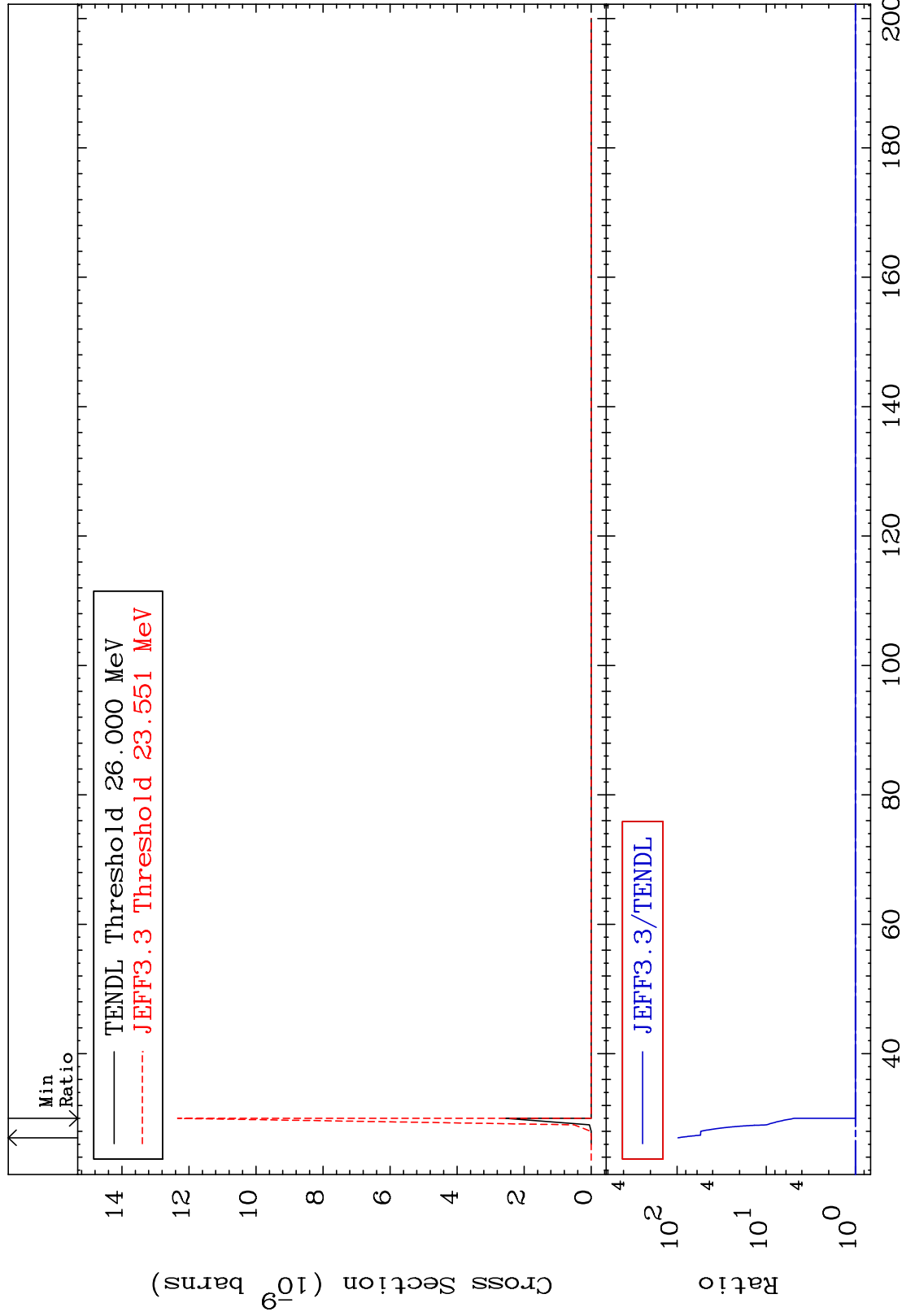


MAT 3440

(n,3n) α :32-Ge-73m2

34-Se-79

Radionuclide Production Cross Section 0.000 To 9685. %

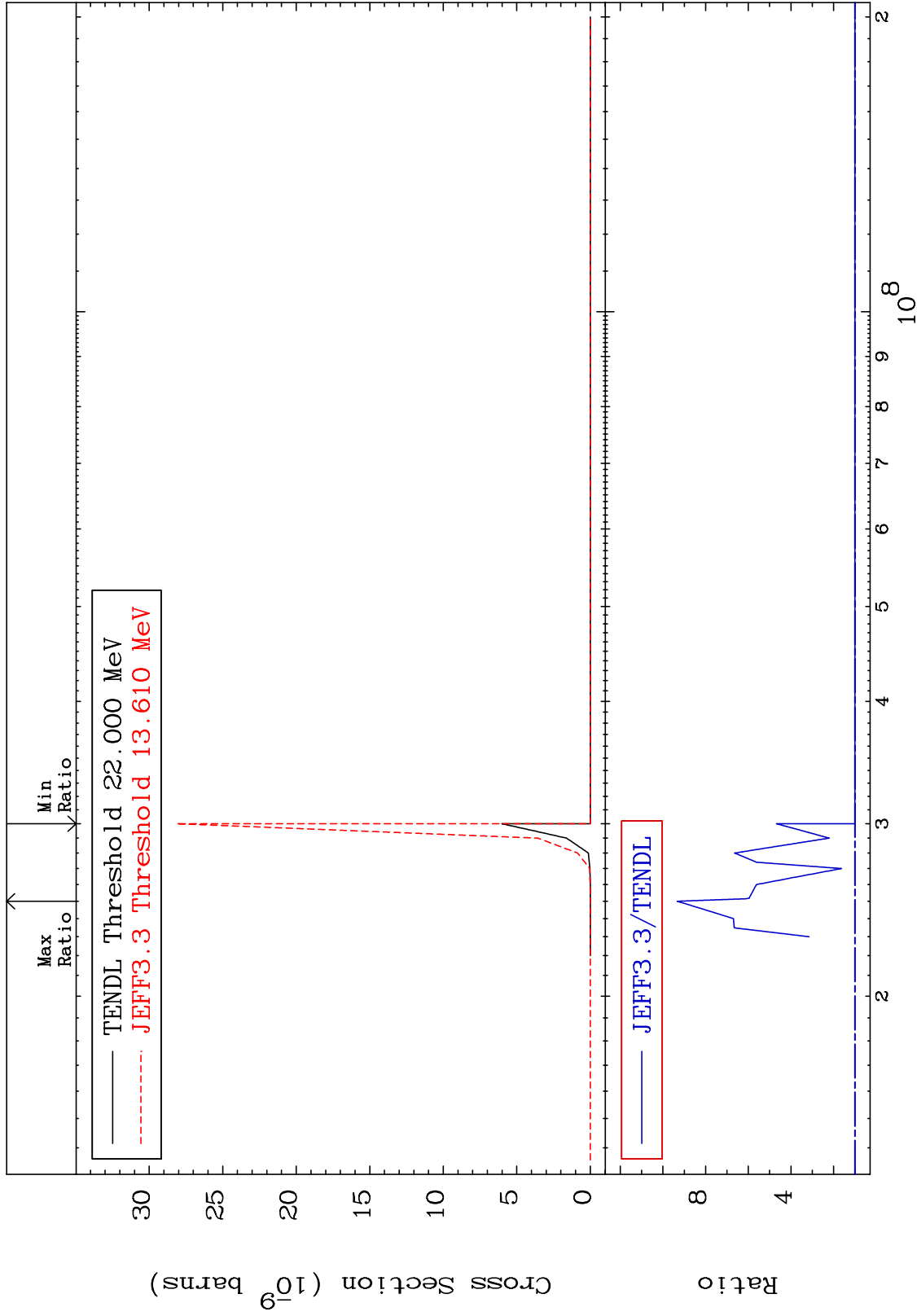


MAT 3440

(n, n') $^{2\alpha}$: 30 -Zn-71g

34 -Se-79

Radionuclide Production Cross Section 0.000 To 832.9 %

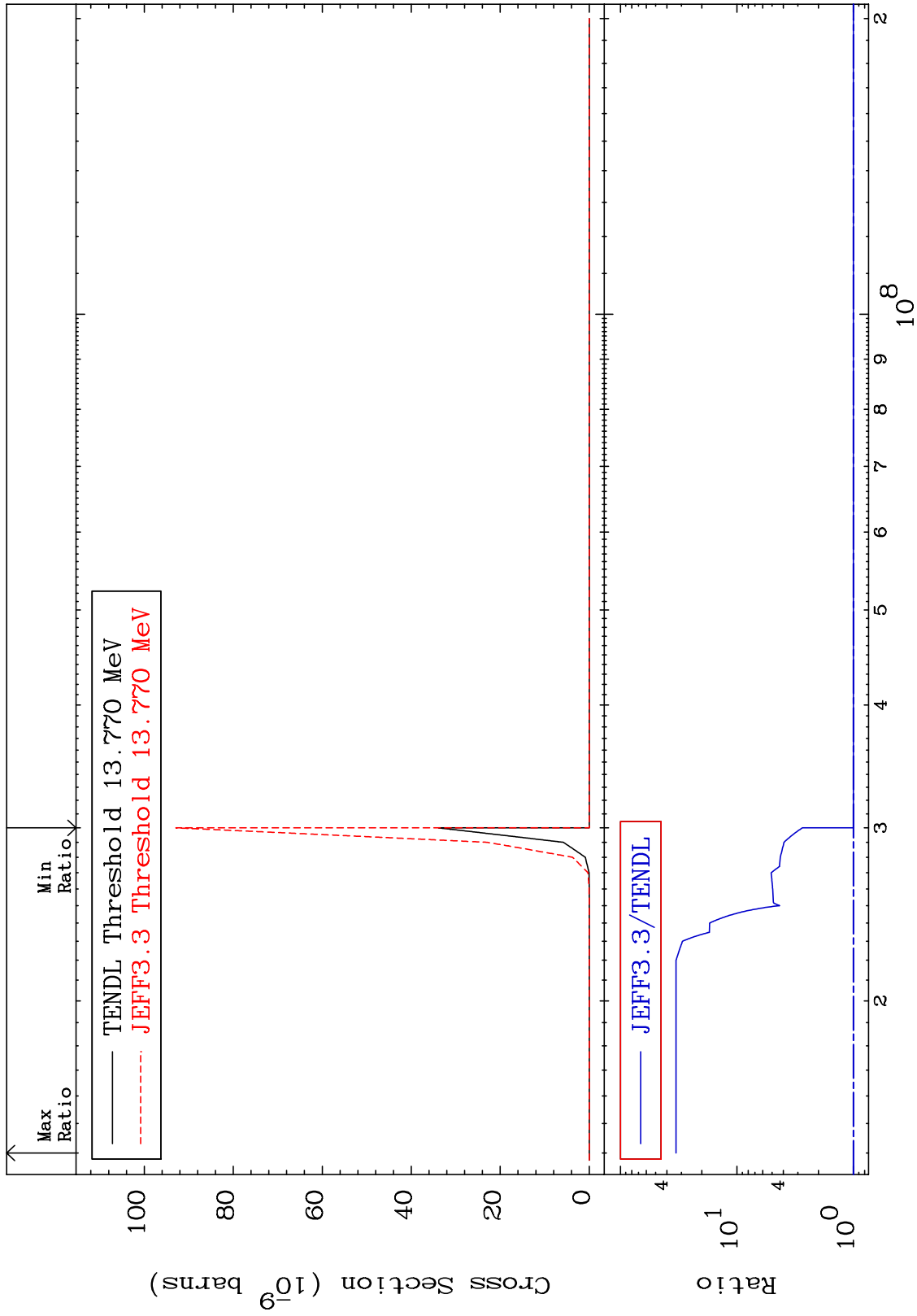


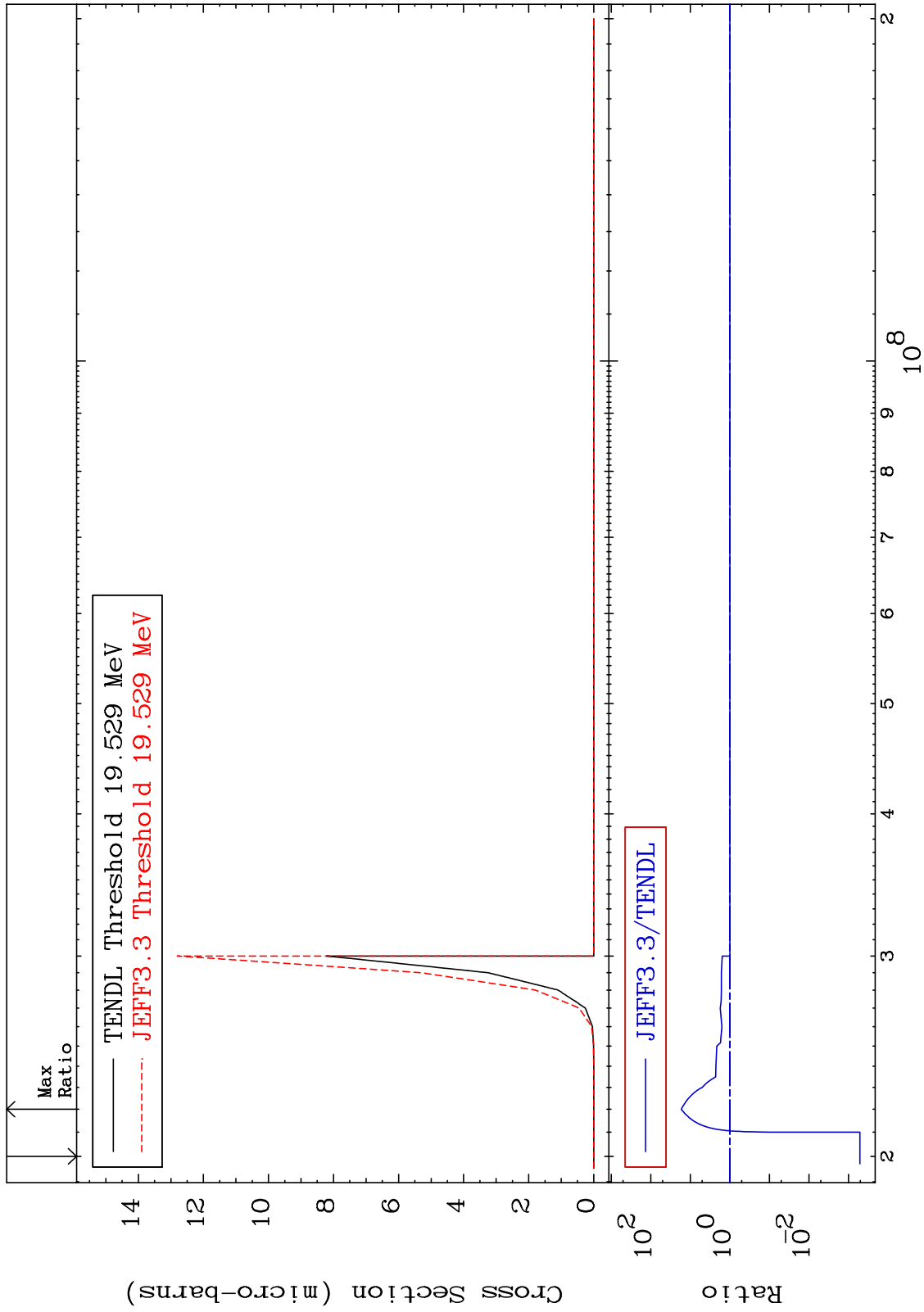
MAT 3440

(n, n') 2α :30-Zn-71m1

$^{34}\text{Se-79}$

Radionuclide Production Cross Section 0.000 To 3232. %



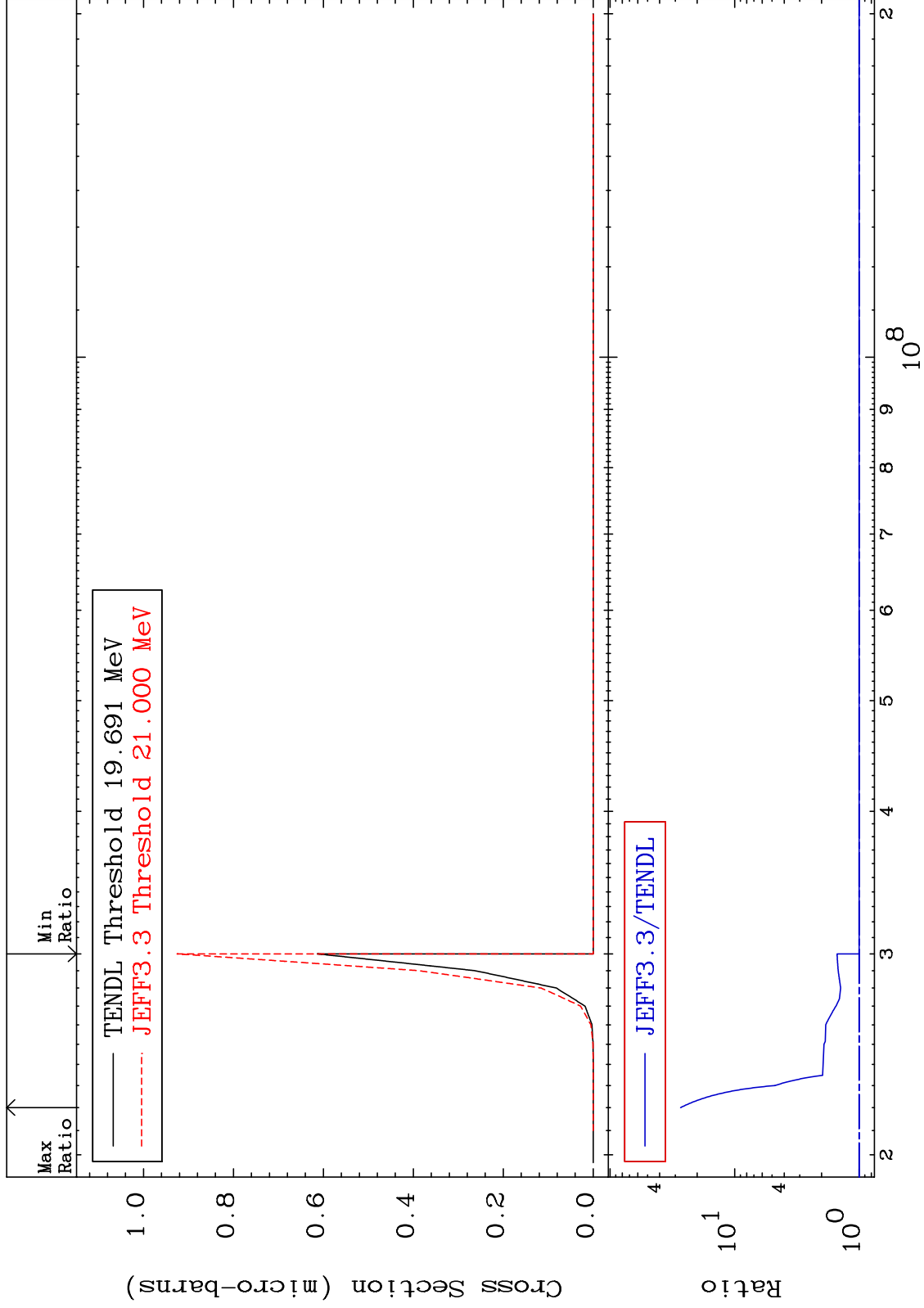


MAT 3440

(n,2n) p:32-Ge-77m1

34-Se-79

Radionuclide Production Cross Section 0.000 To 2615. %

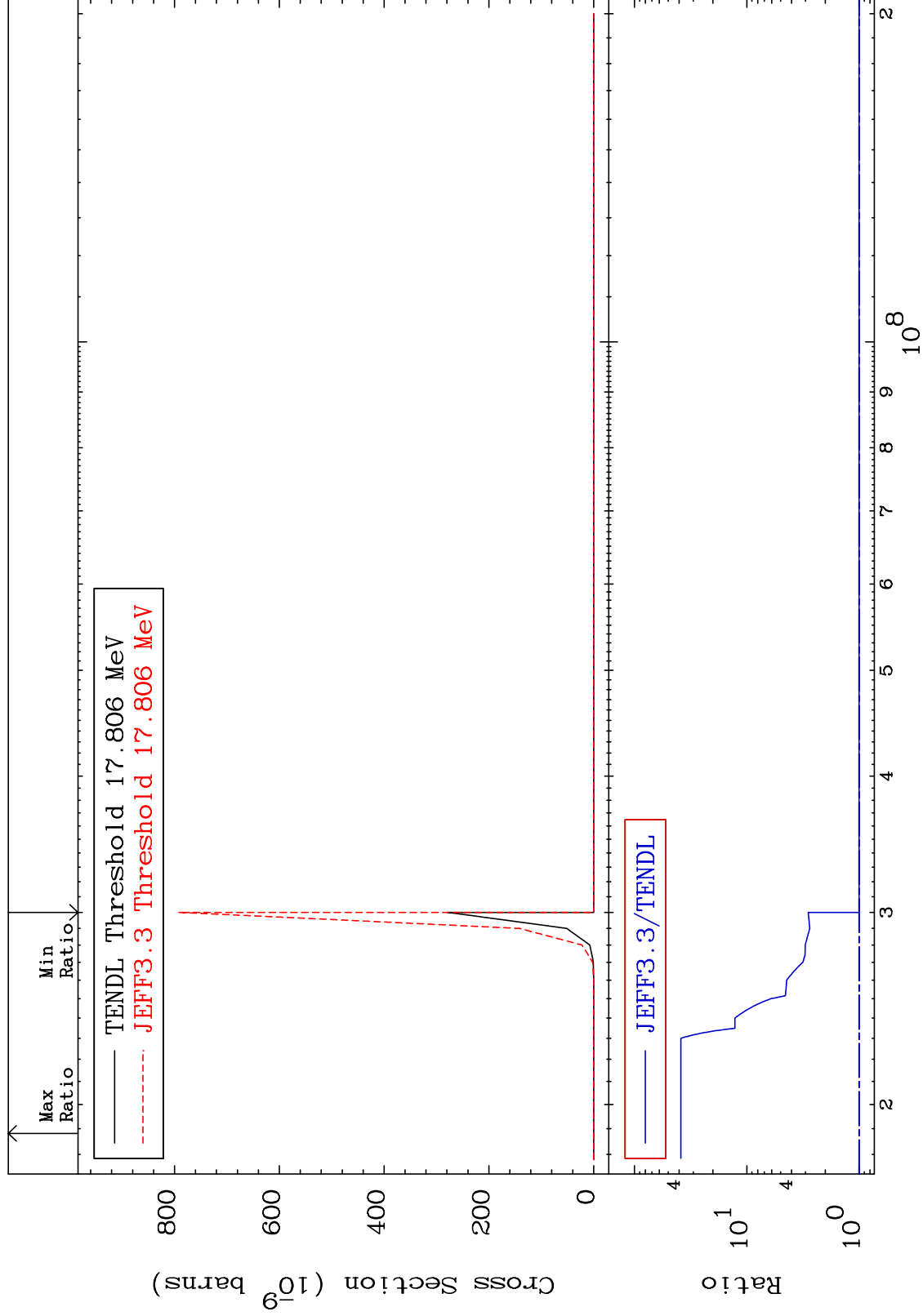


MAT 3440

(n, n') p α :31-Ga-74g

34-Se-79

Radionuclide Production Cross Section 0.000 To 3759. %



92

Incident Energy (eV)

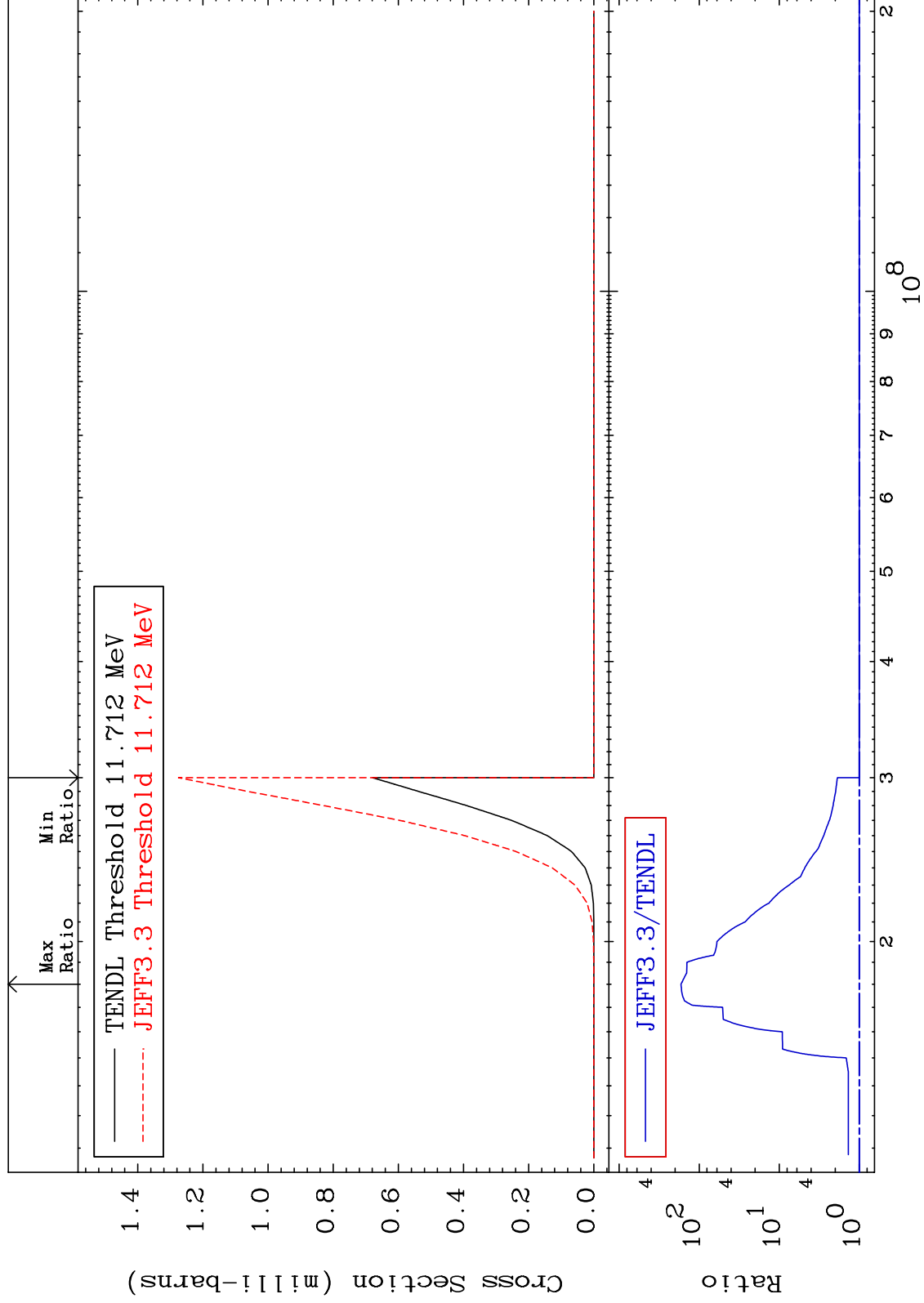
34-Se-79

MAT 3440

(n, He-3) : 32-Ge-77g

34-Se-79

Radionuclide Production Cross Section 0.000 To 9999. %

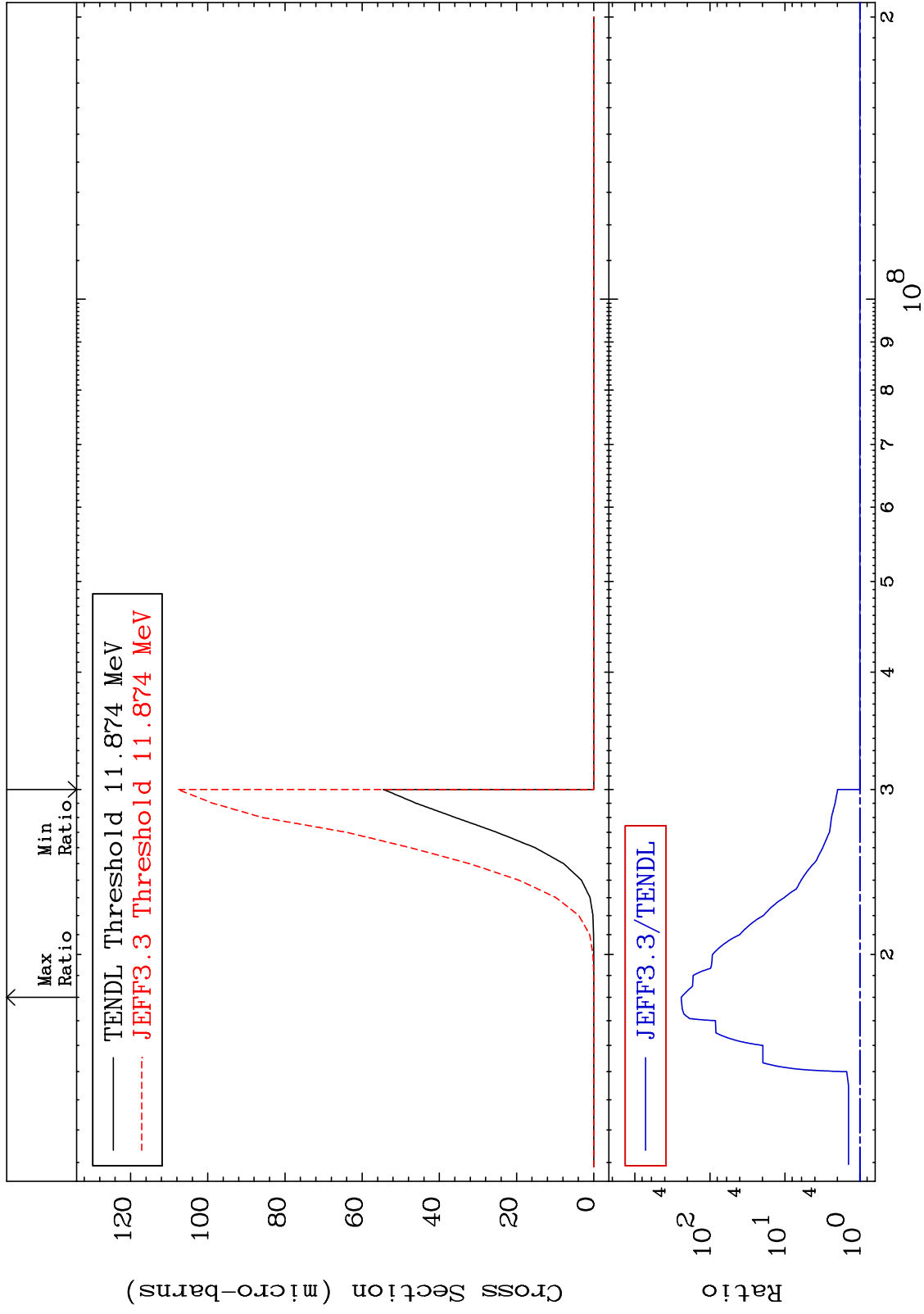


MAT 3440

(n,He-3):32-Ge-77m1

34-^{Se}-79

Radionuclide Production Cross Section 0.000 To 9999. %

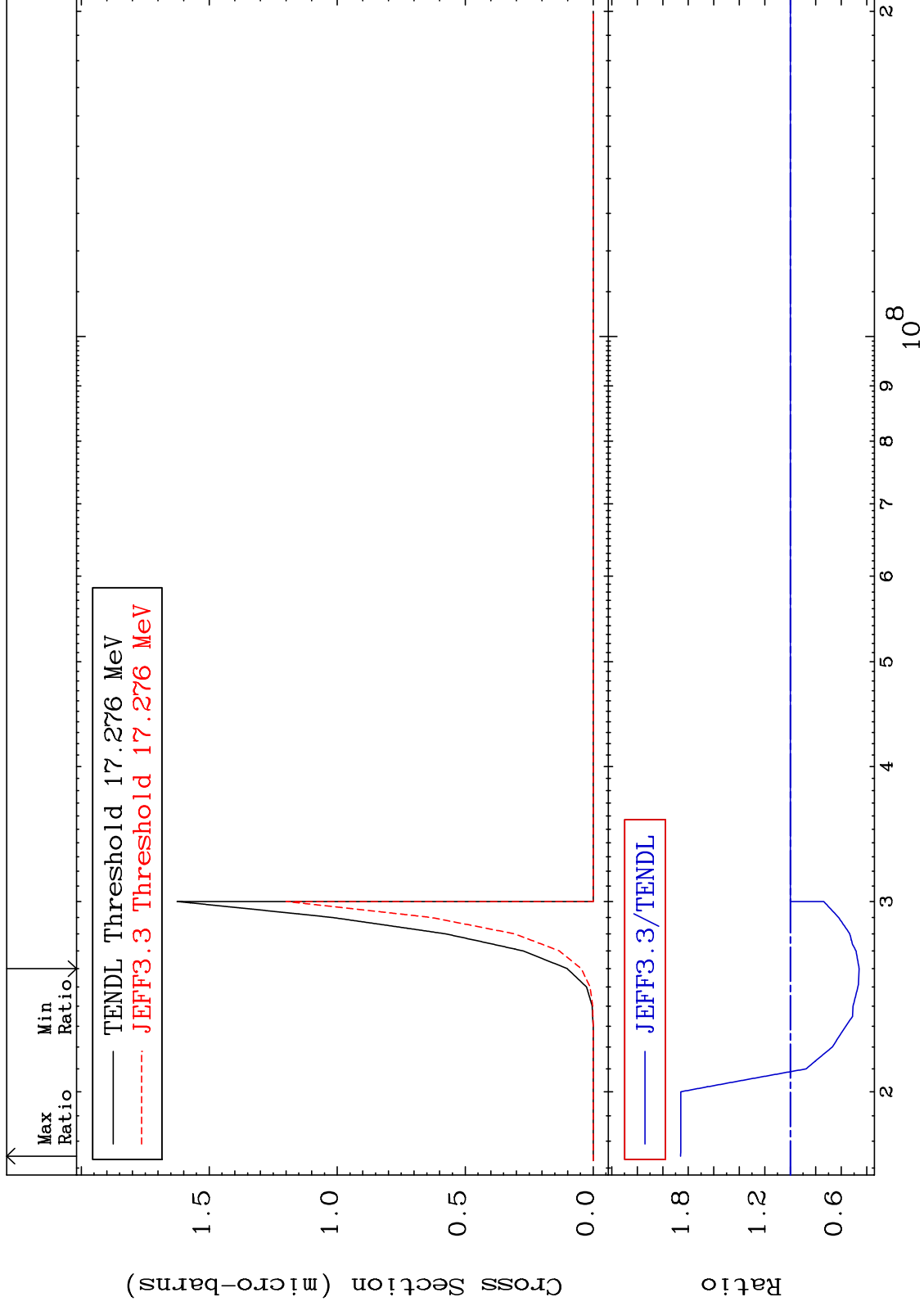


MAT 3440

(n,p) d:32-Ge-77g

34-Se-79

Radionuclide Production Cross Section -54.05 To 86.01 %

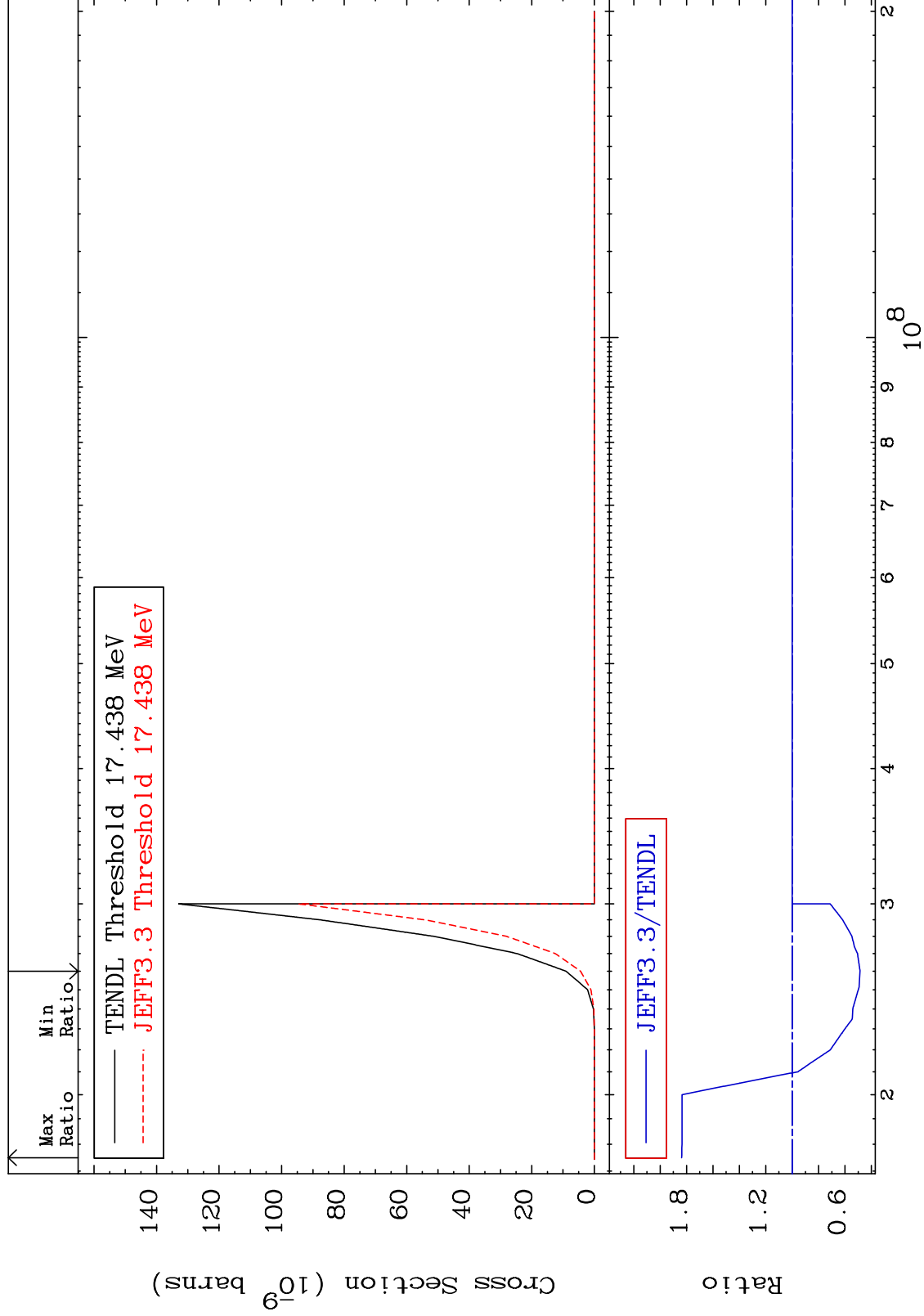


96

Incident Energy (eV)

34-Se-79

Radionuclide Production Cross Section -51.42 To 83.70 %

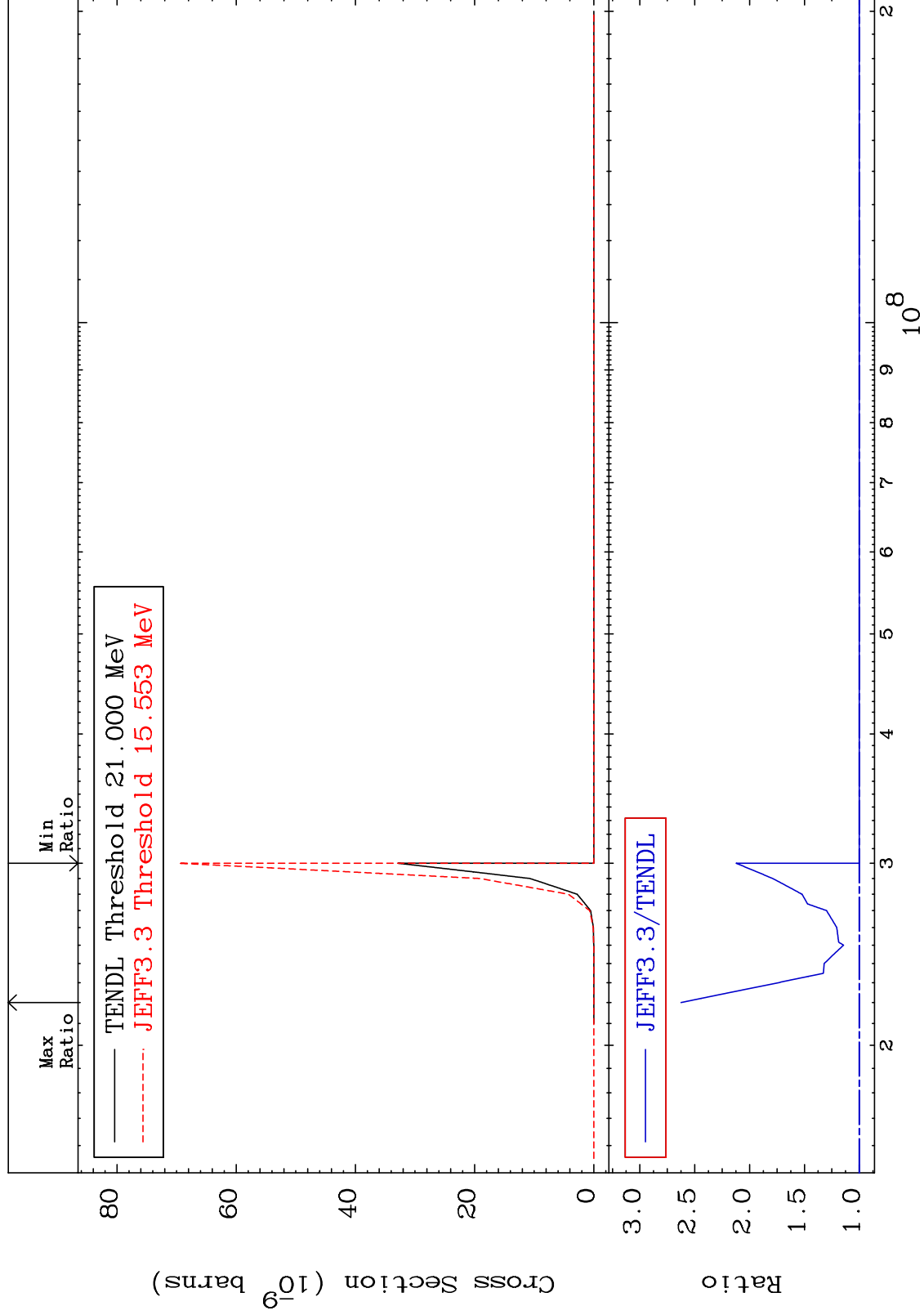


MAT 3440

(n,d) α :31-Ga-74g

34-Se-79

Radionuclide Production Cross Section 0.000 To 162.5 %



98

Incident Energy (eV)

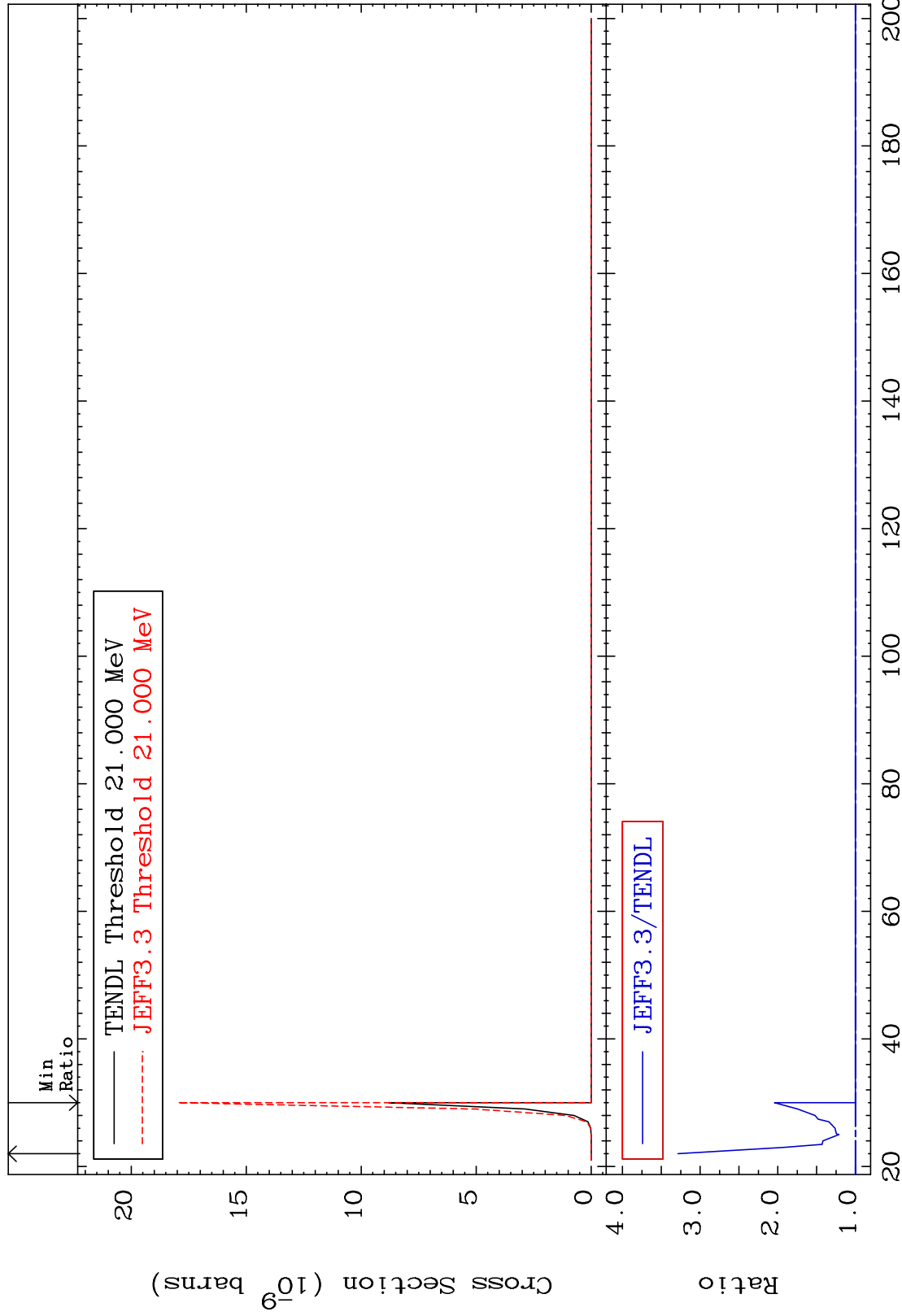
34-Se-79

MAT 3440

(n, d) α : 31-Ga-74m2

34-Se-79

Radionuclide Production Cross Section 0.000 To 228.5 %



99

Incident Energy (MeV)

34-Se-79