

Program Complot
(Version 2021-1)

by

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U.S.A.

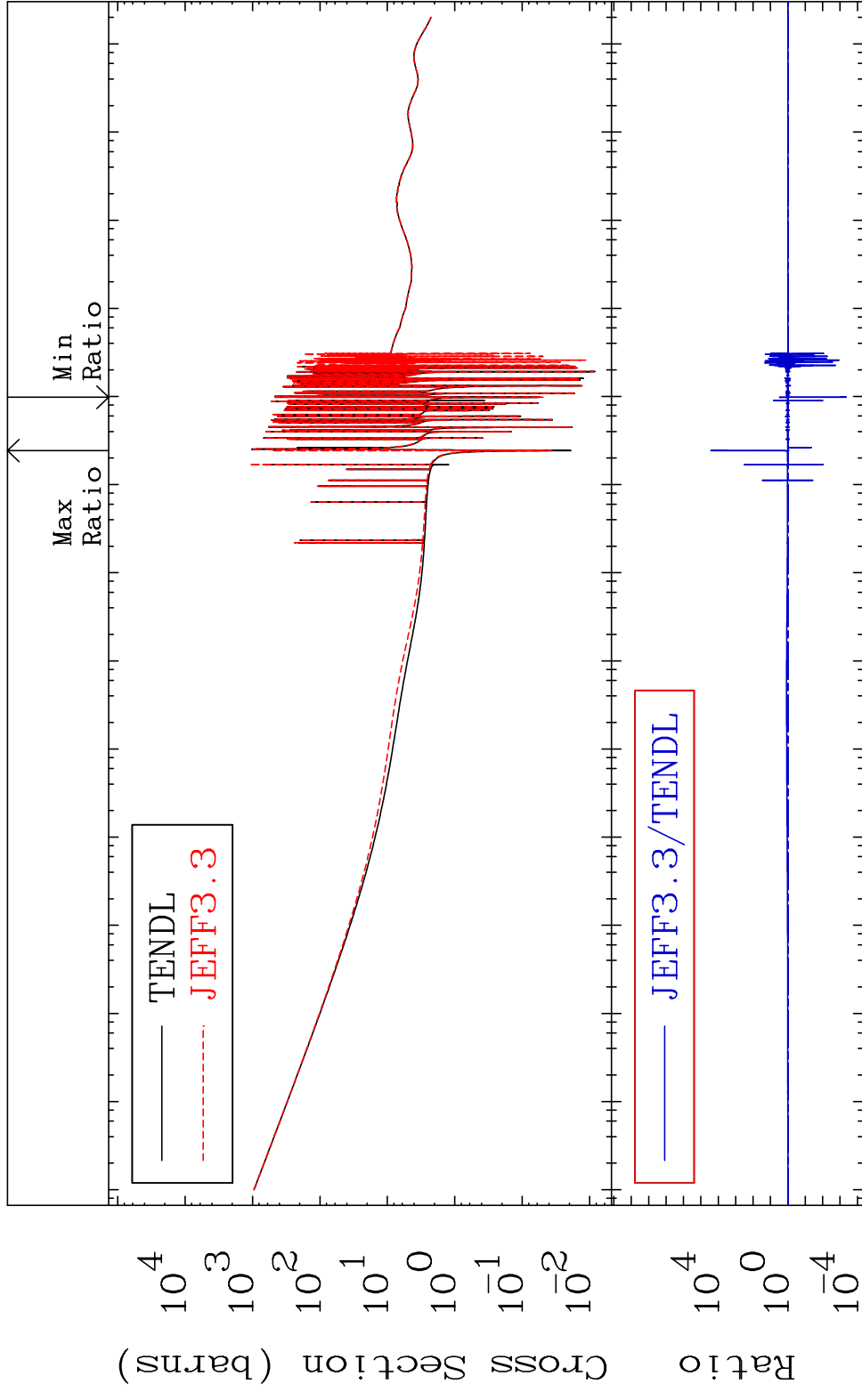
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 6025

Total Cross Section
60-Nd-142
-99.96 To 9999. %



1 Incident Energy (eV) 60-Nd-142

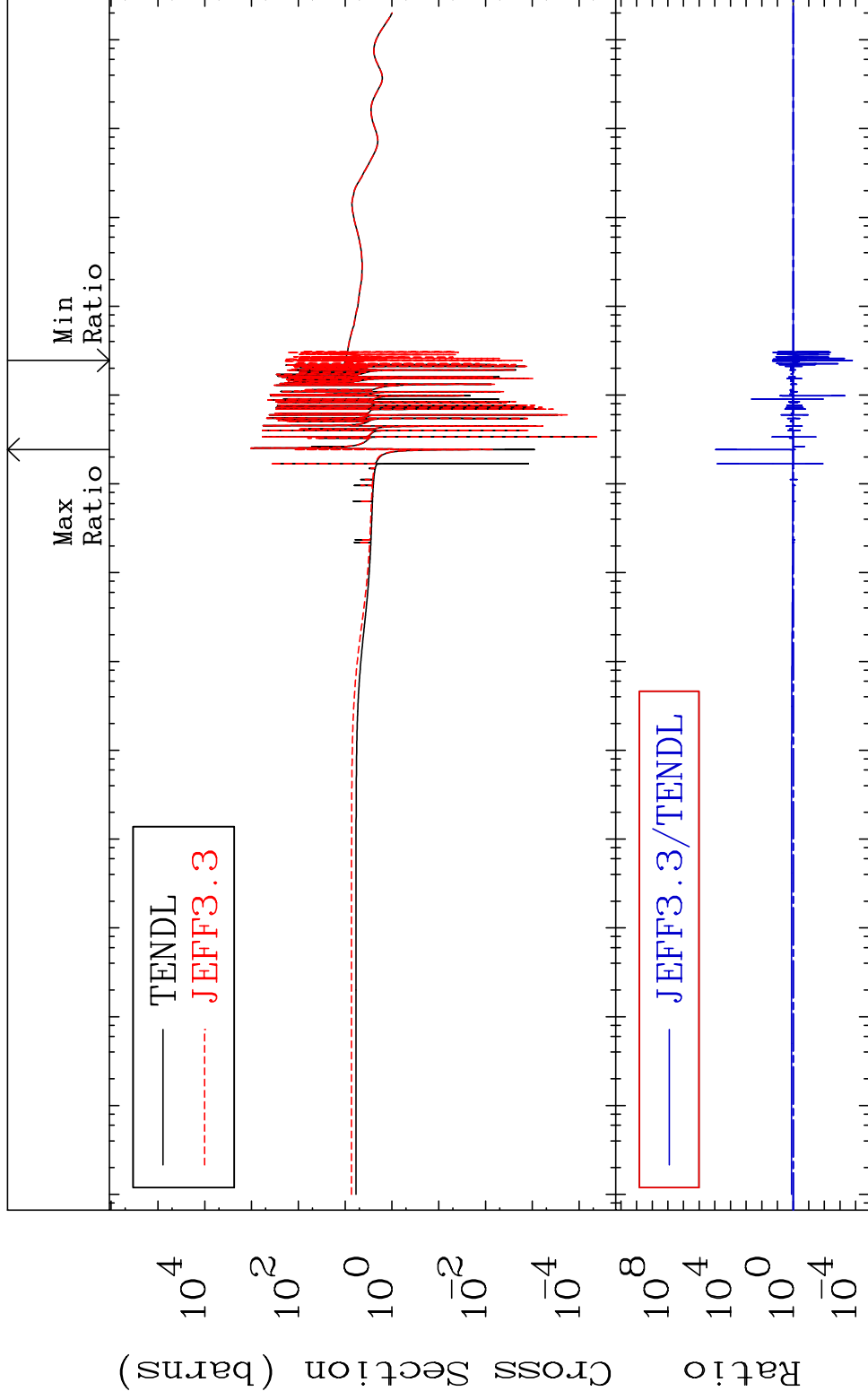
MAT 6025

Elastic

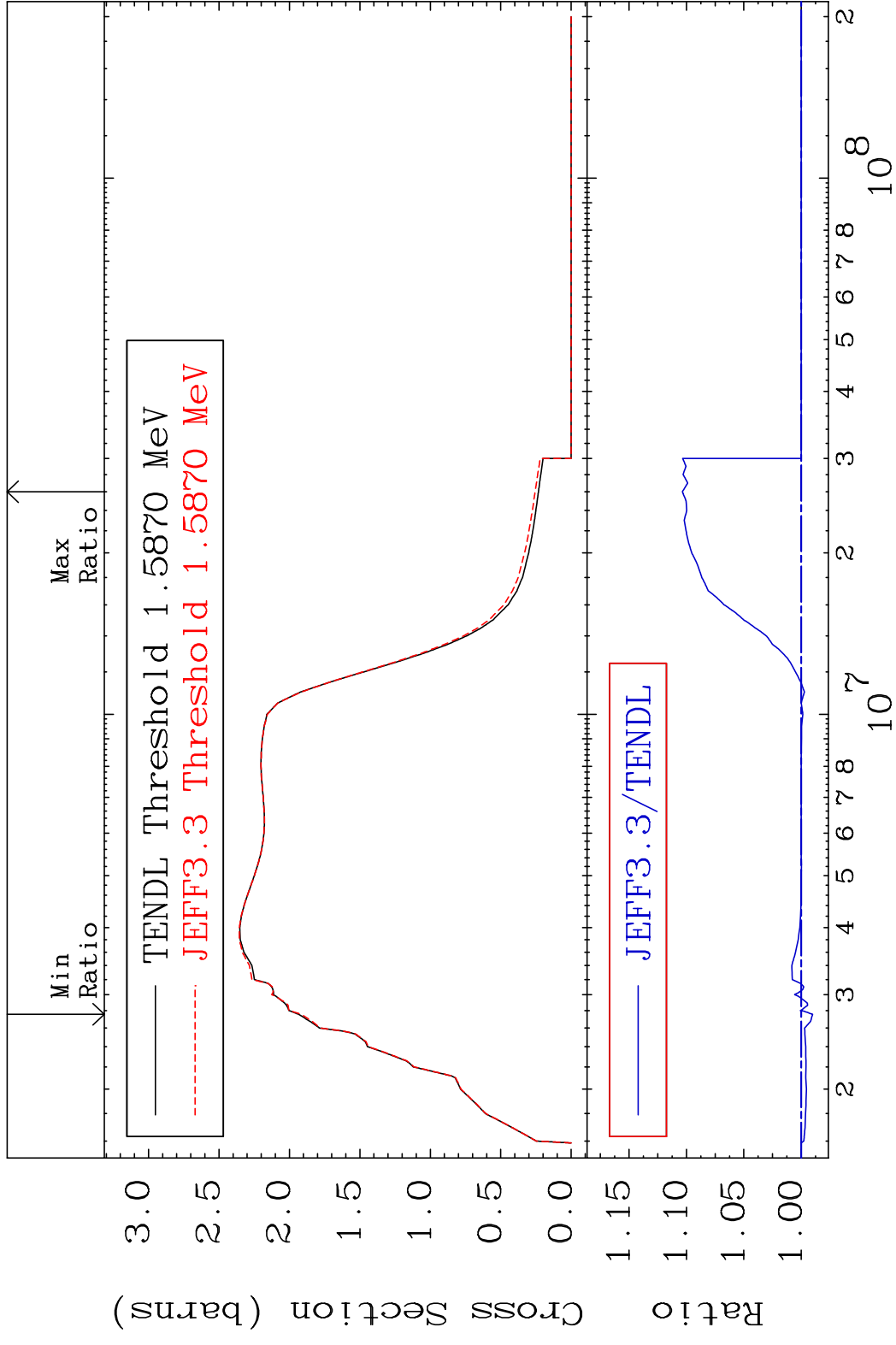
60-Nd-142

Cross Section

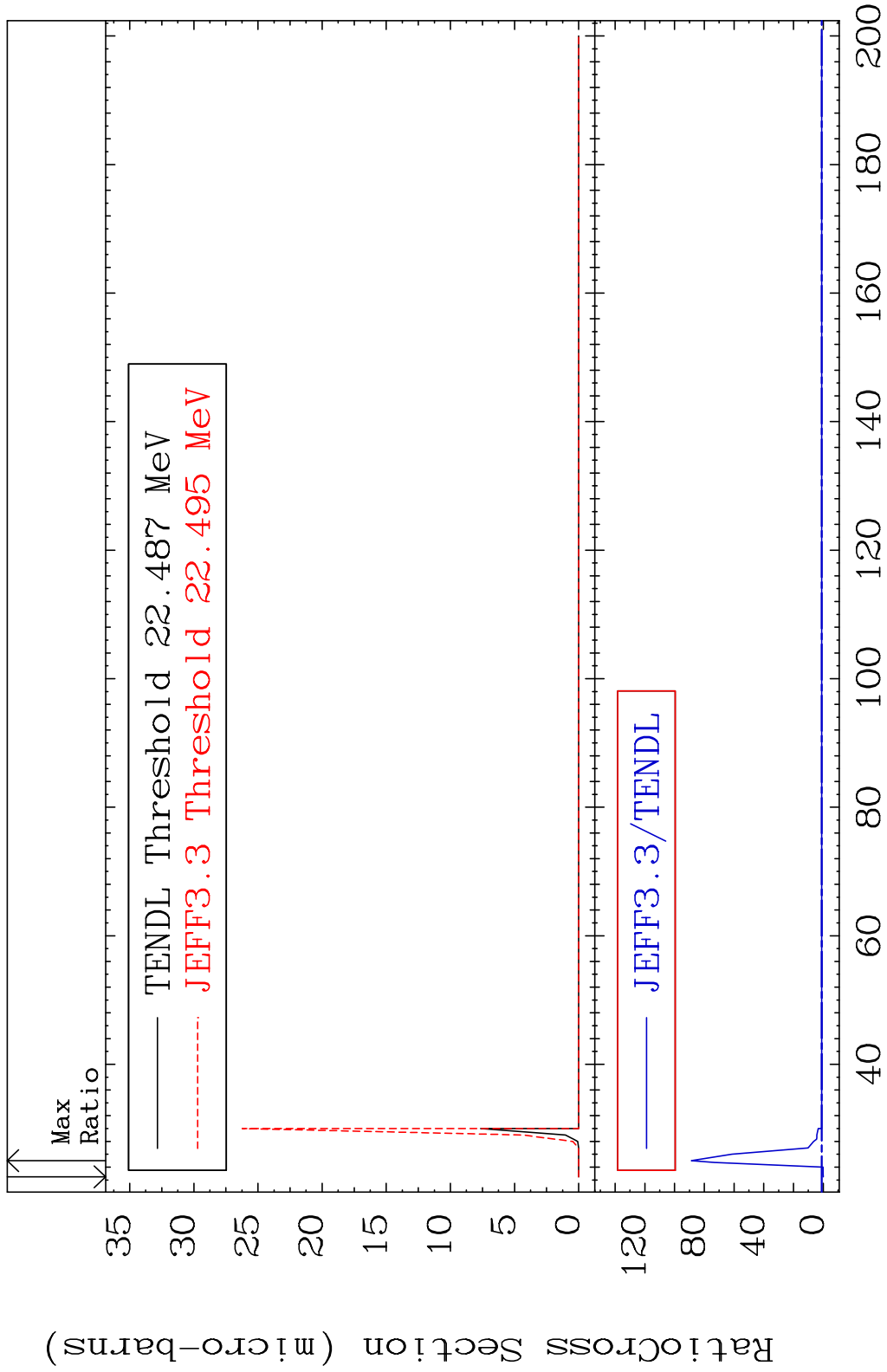
-99.98 To 9999. %



MAT 6025 Inelastic 60-Nd-142
 Cross Section -0.986 To 10.36 %



MAT 6025 (n,2n) d 60-Nd-142
 Cross Section -100.0 To 8775. %

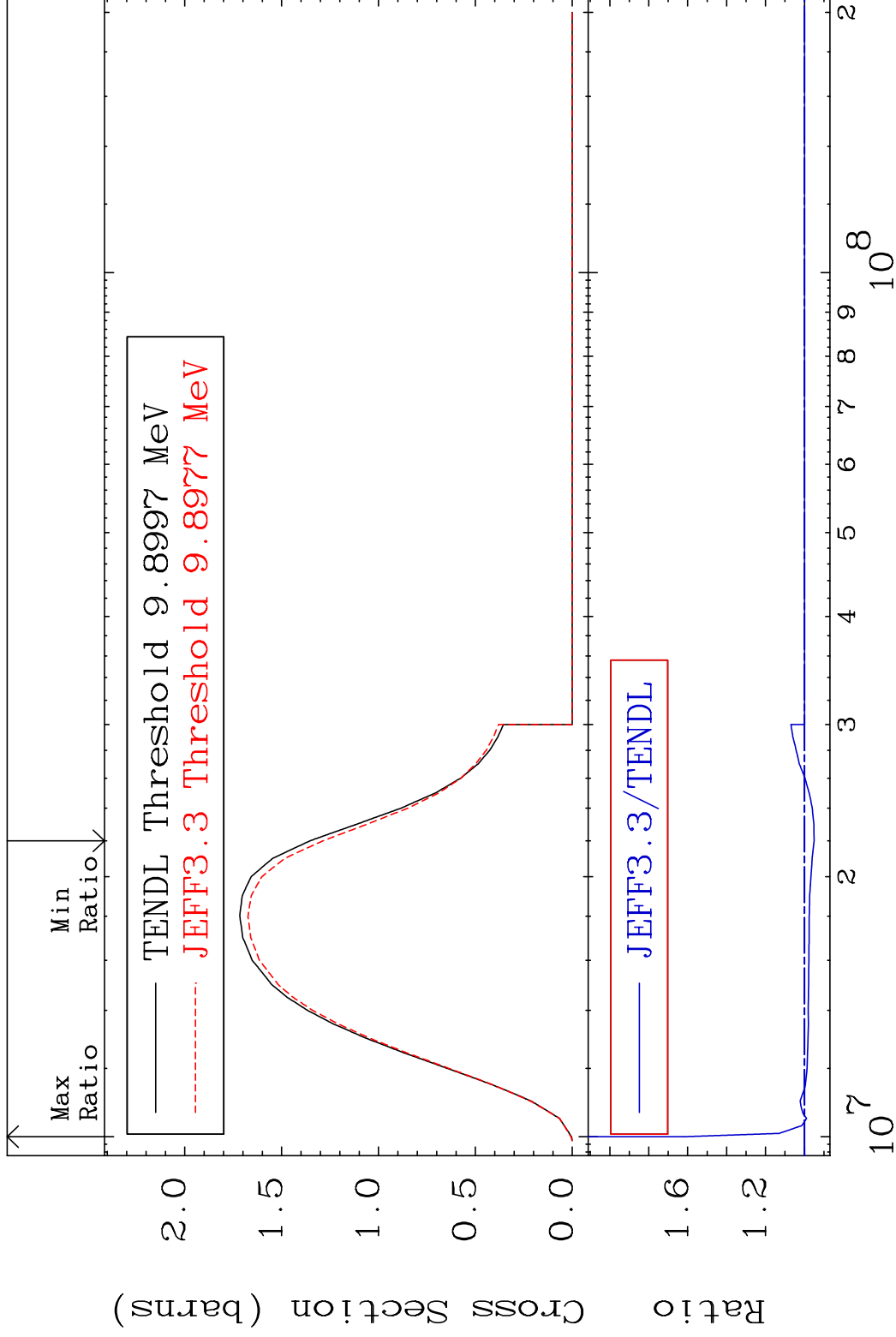


MAT 6025

(n,2n)

60-Nd-142

Cross Section -4.962 To 62.06 %



5

Incident Energy (eV)

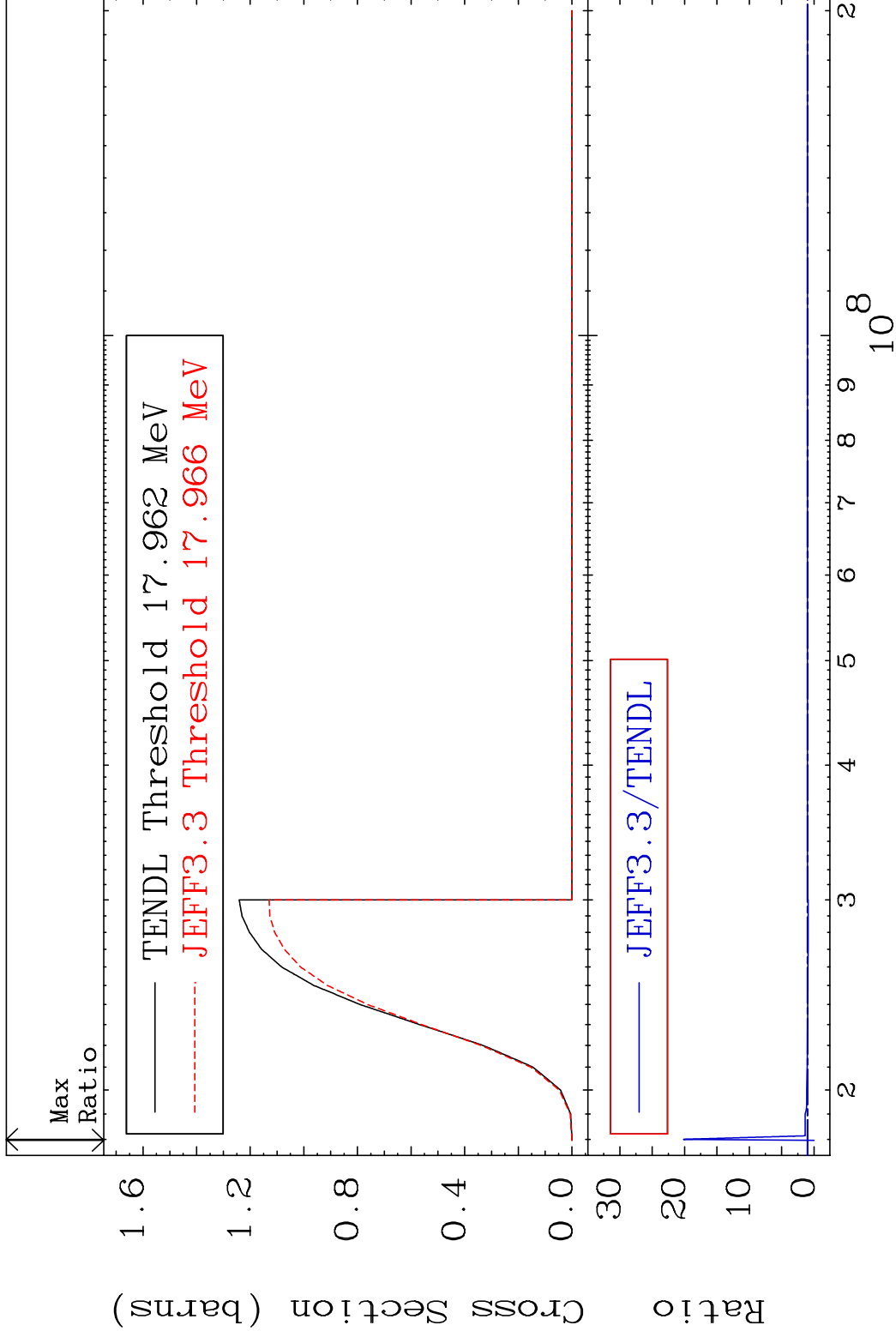
60-Nd-142

MAT 6025

(n,3n)

60-Nd-142

Cross Section -100.0 To 1917. %

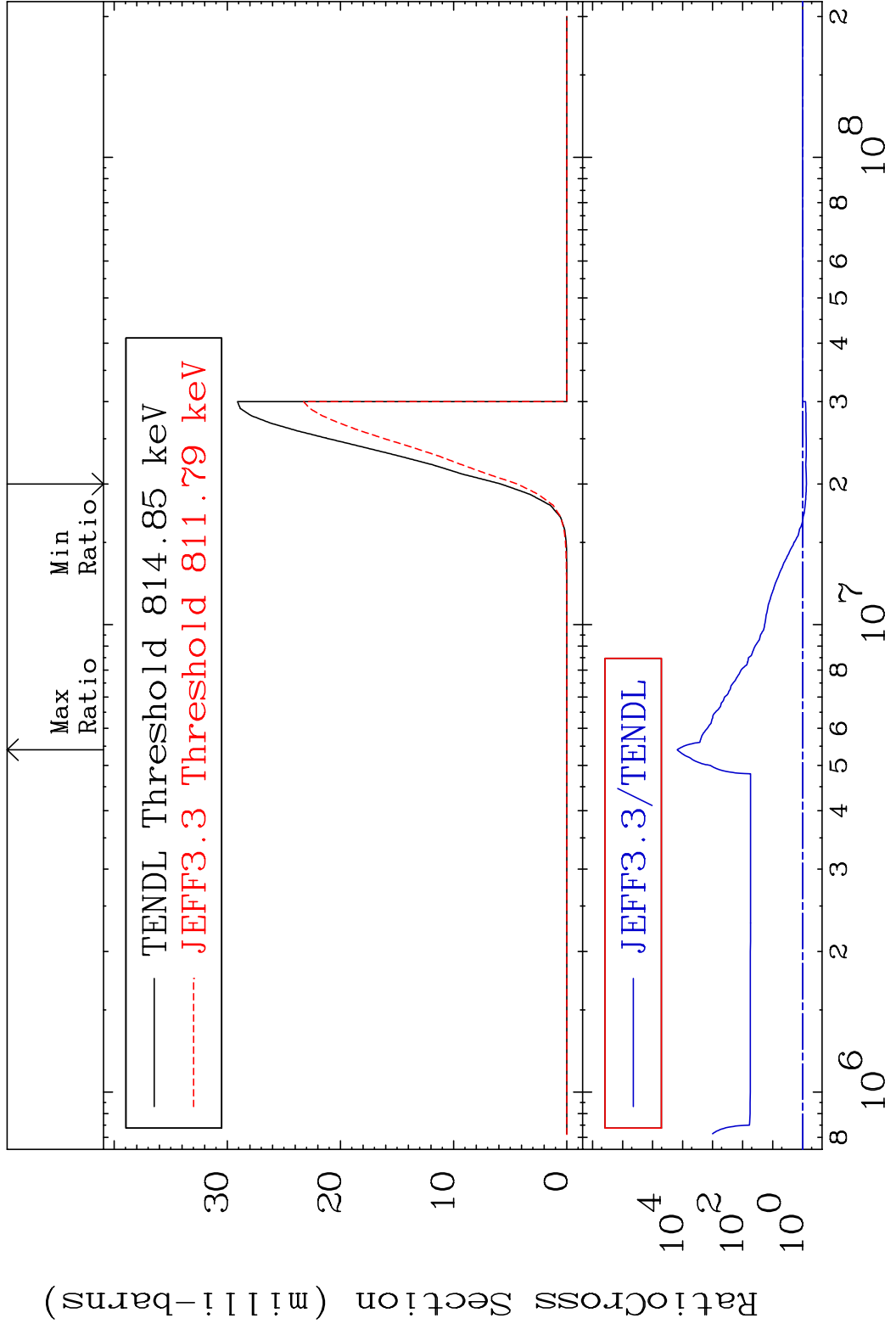


6

Incident Energy (eV)

60-Nd-142

MAT 6025 (n, n') α 60-Nd-142
 Cross Section -25.03 To 9999. %



7 8 10⁶ 10⁷ 10⁸ 2 3 4 5 6 8

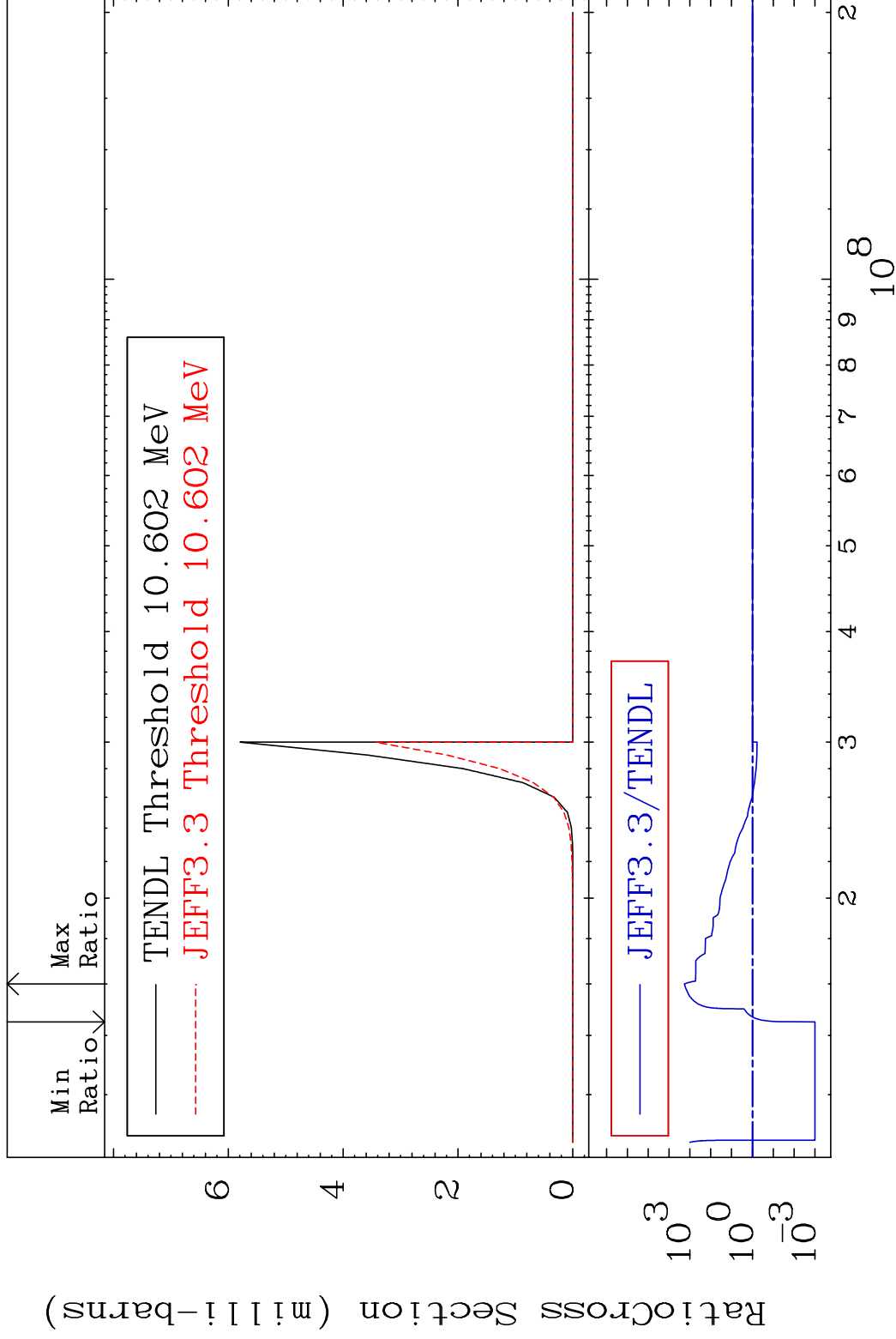
60-Nd-142

MAT 6025

(n,2n) α

60-Nd-142

Cross Section -99.90 To 9999. %

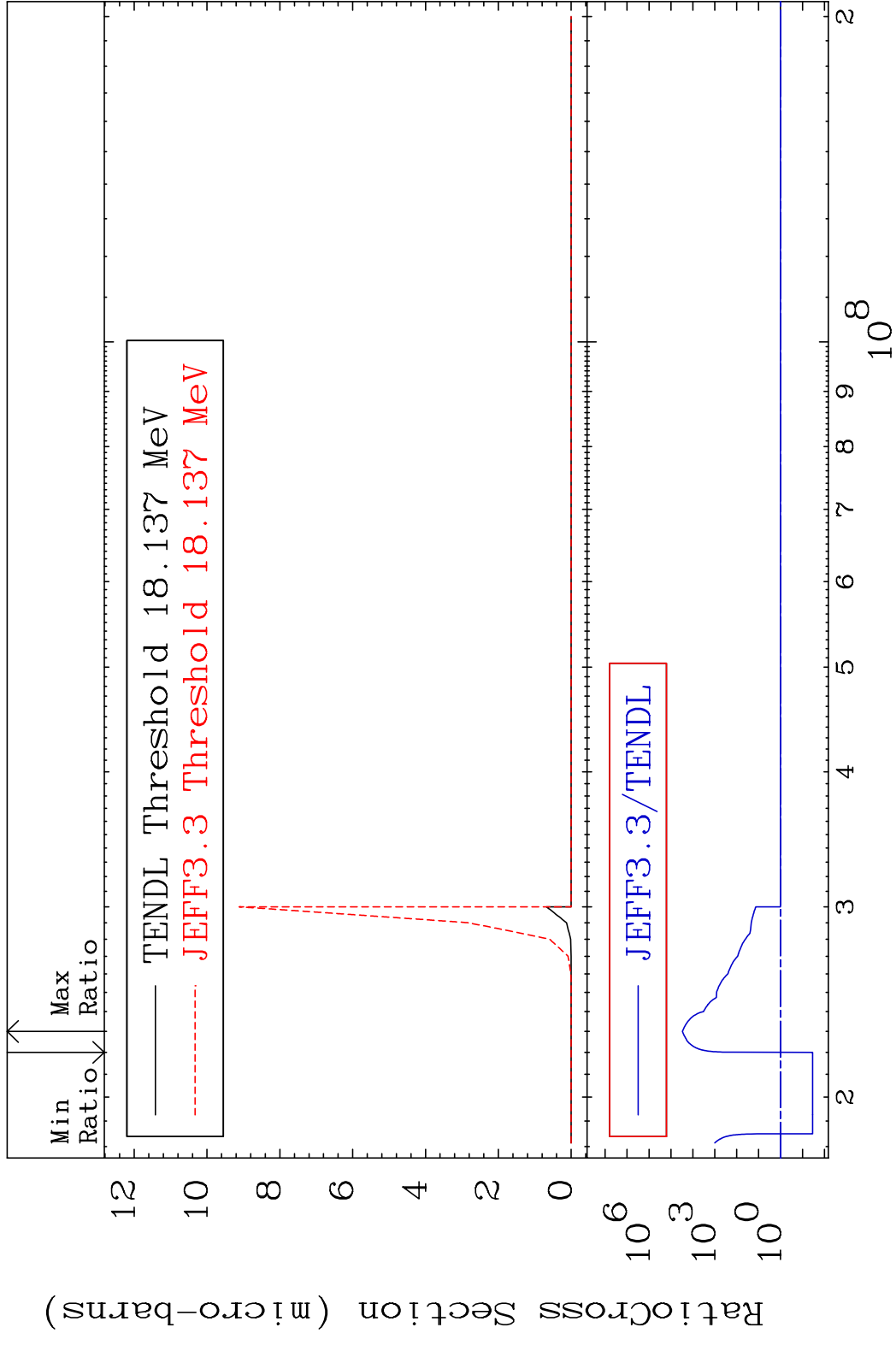


8

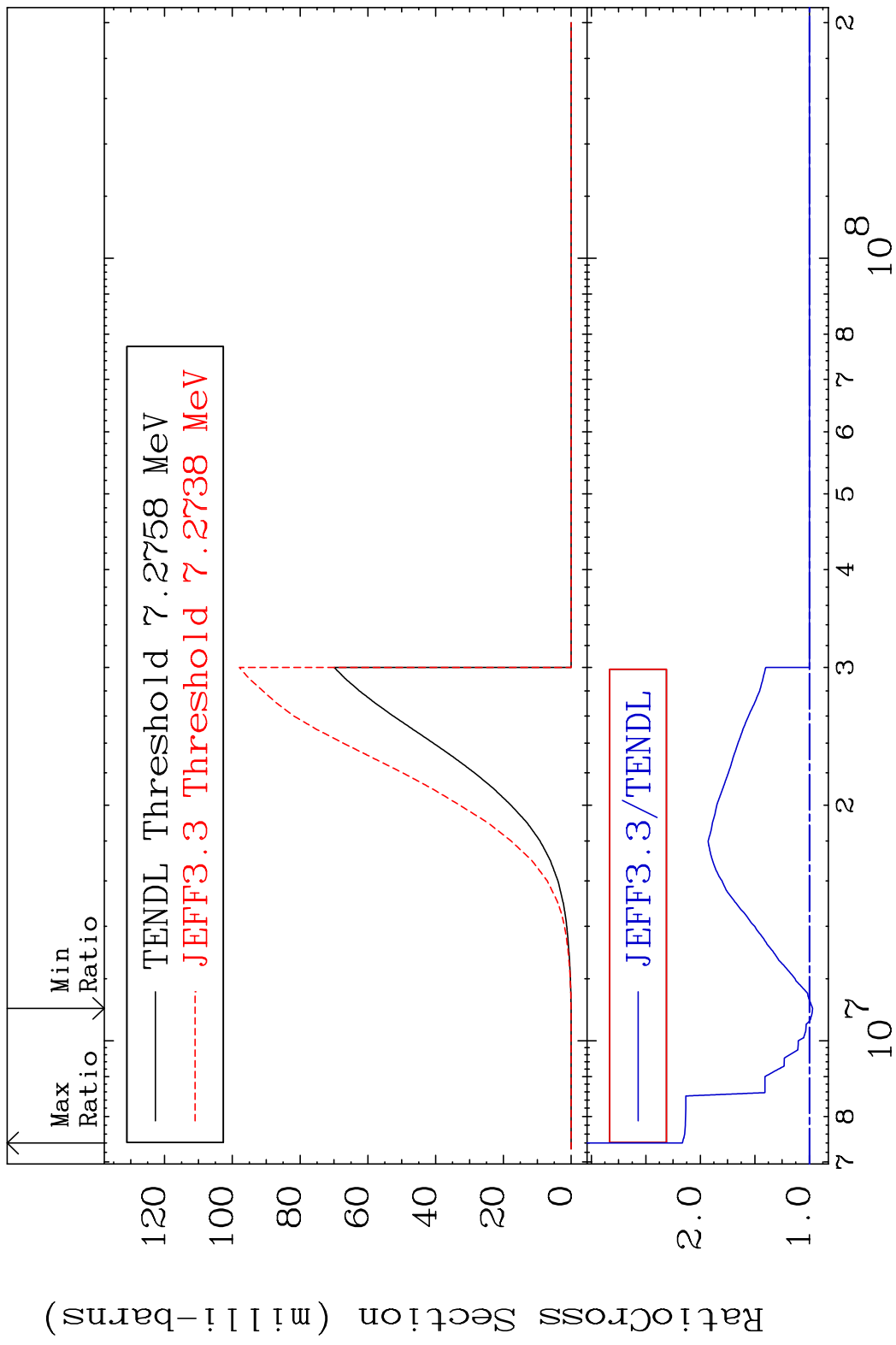
Incident Energy (eV)

60-Nd-142

MAT 6025 (n,3n) α 60-Nd-142
 Cross Section -96.53 To 9999. %

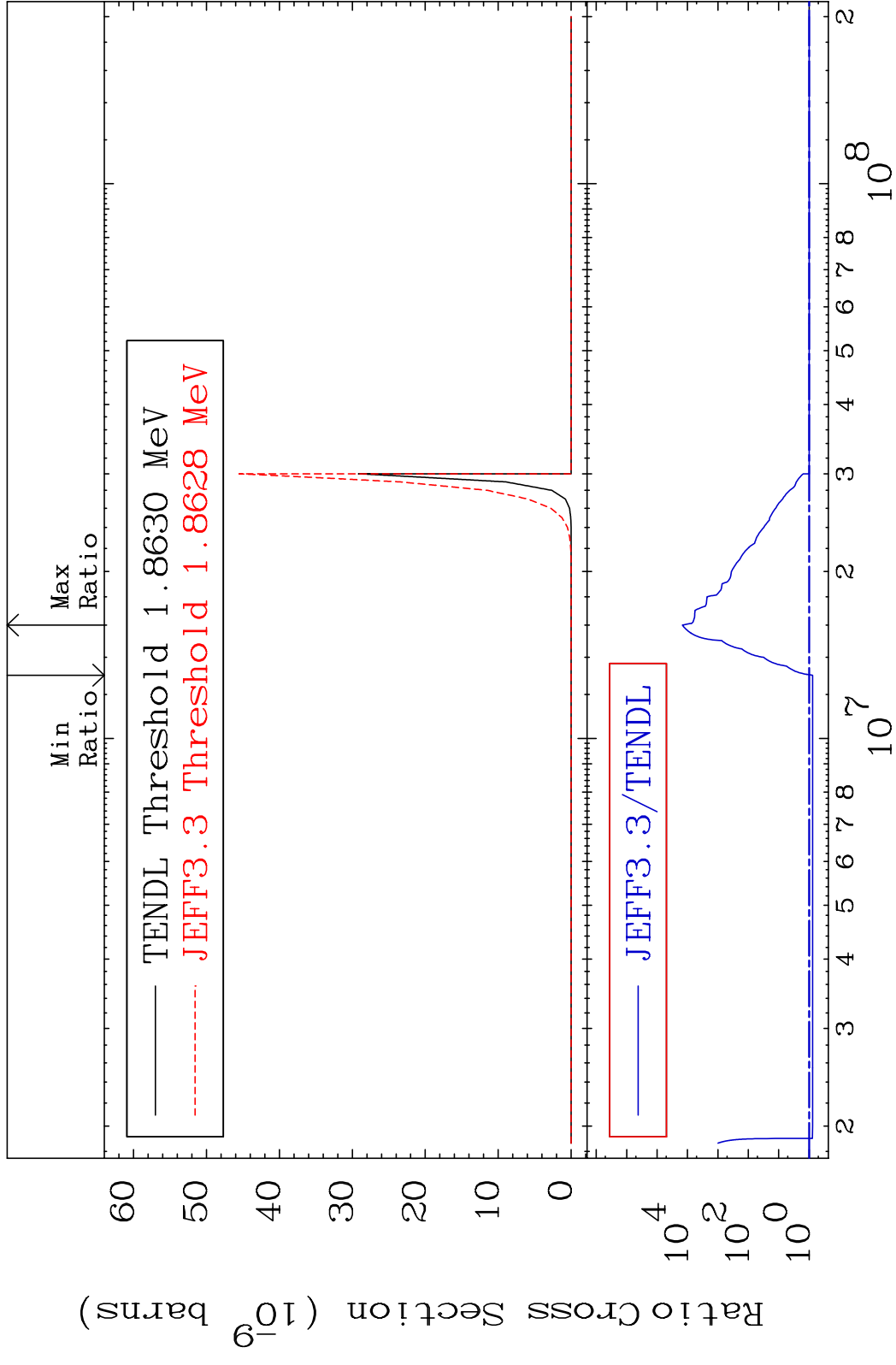


MAT 6025 (n, n') p 60-Nd-142
 Cross Section -2.965 To 116.5 %

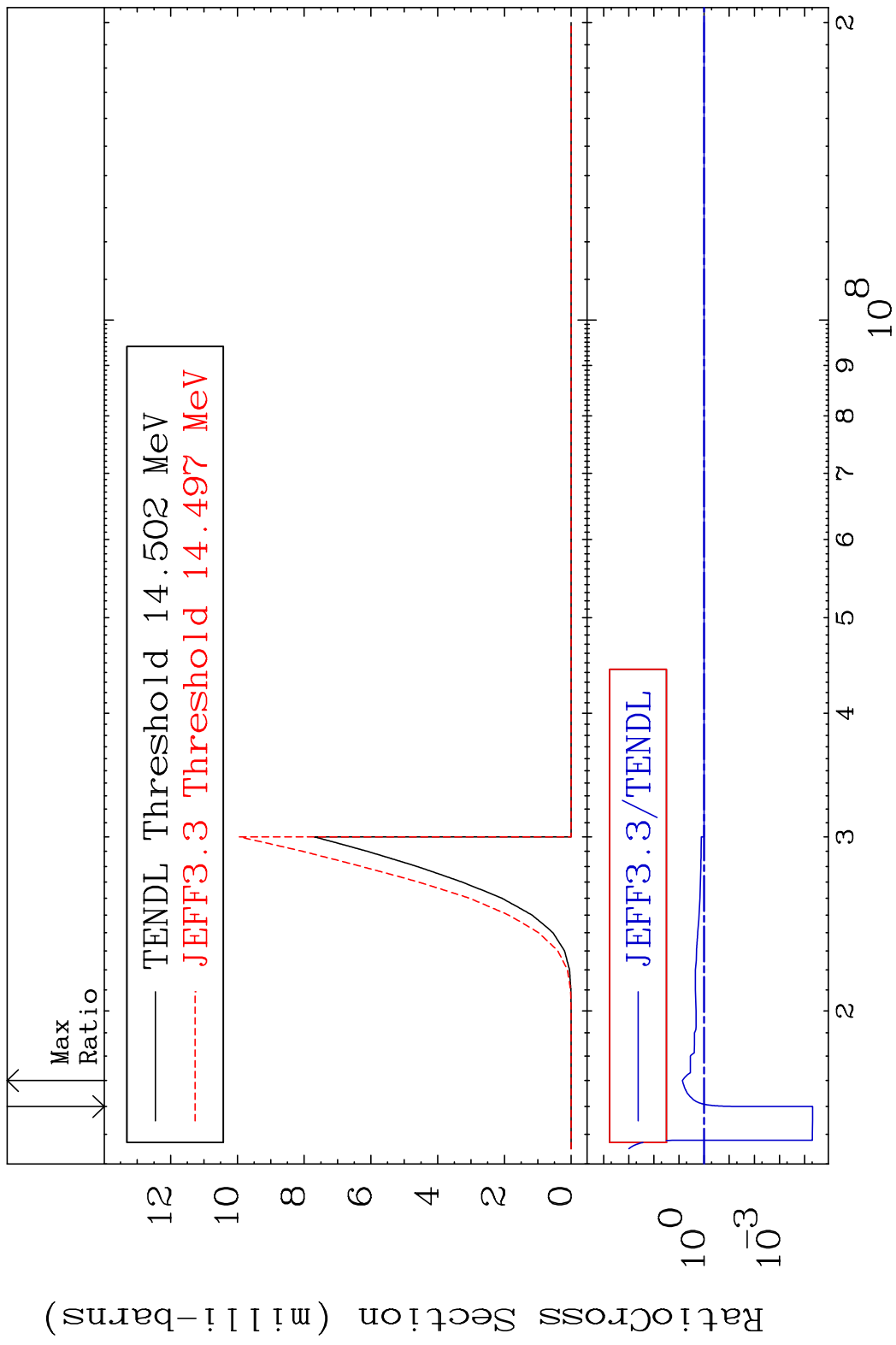


10 10 7 8 2 60-Nd-142

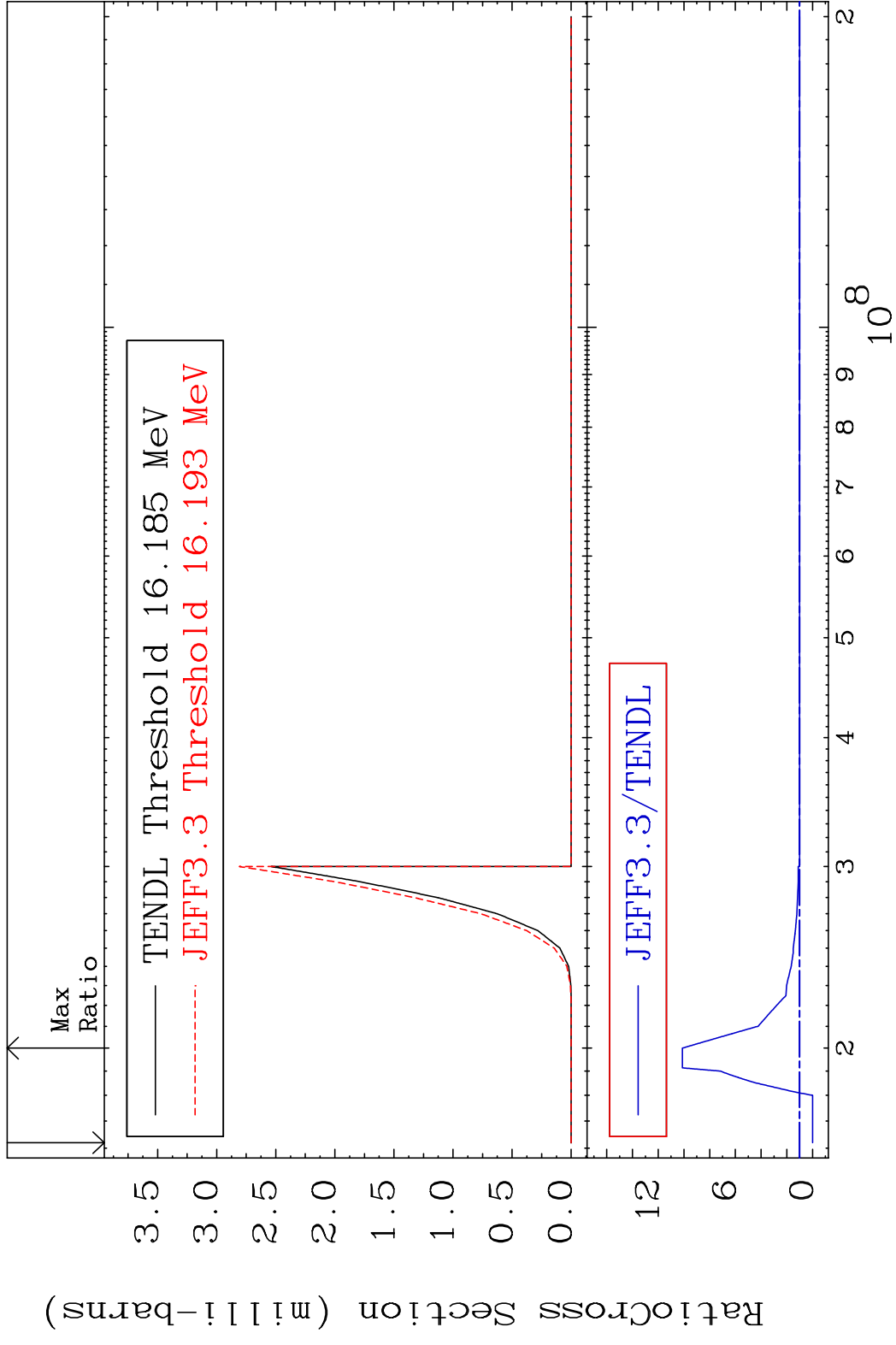
MAT 6025 (n, n') 2α 60-Nd-142
 Cross Section -23.00 To 9999. %



MAT 6025 (n, n') d 60-Nd-142
 Cross Section -100.0 To 635.5 %



MAT 6025 (n, n') t 60-Nd-142
 Cross Section -100.0 To 912.4 %

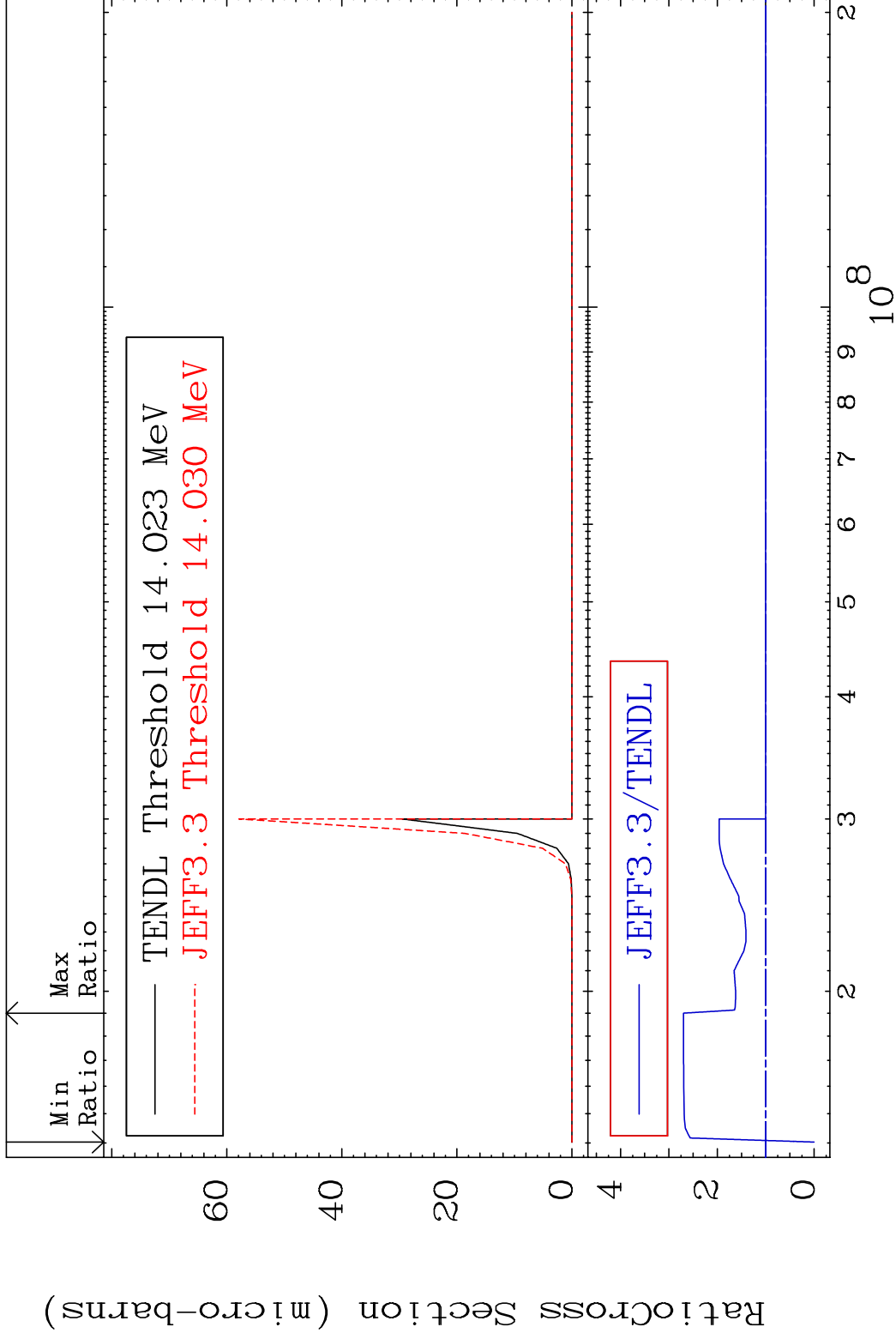


MAT 6025

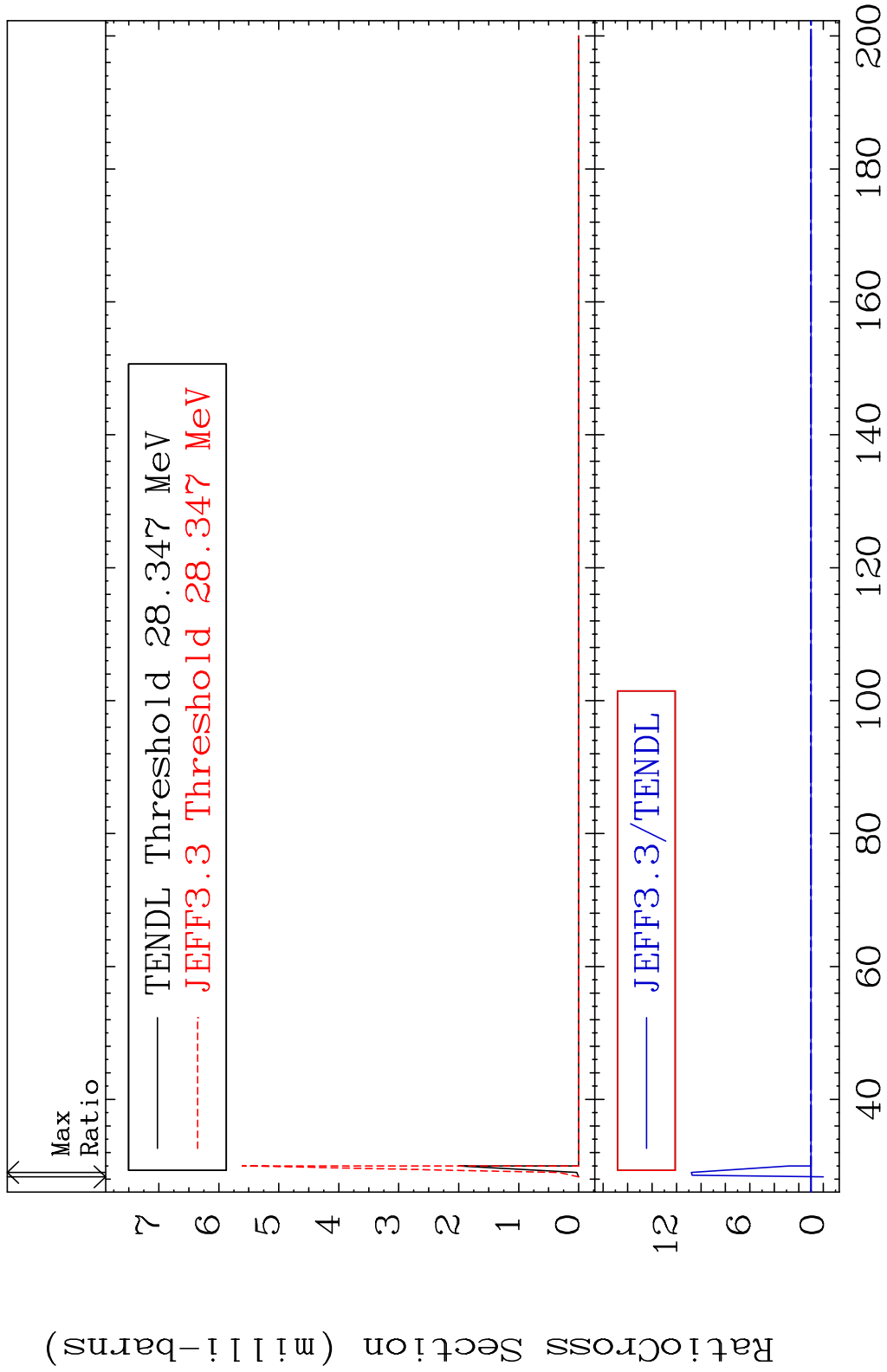
(n,n') He-3

60-Nd-142

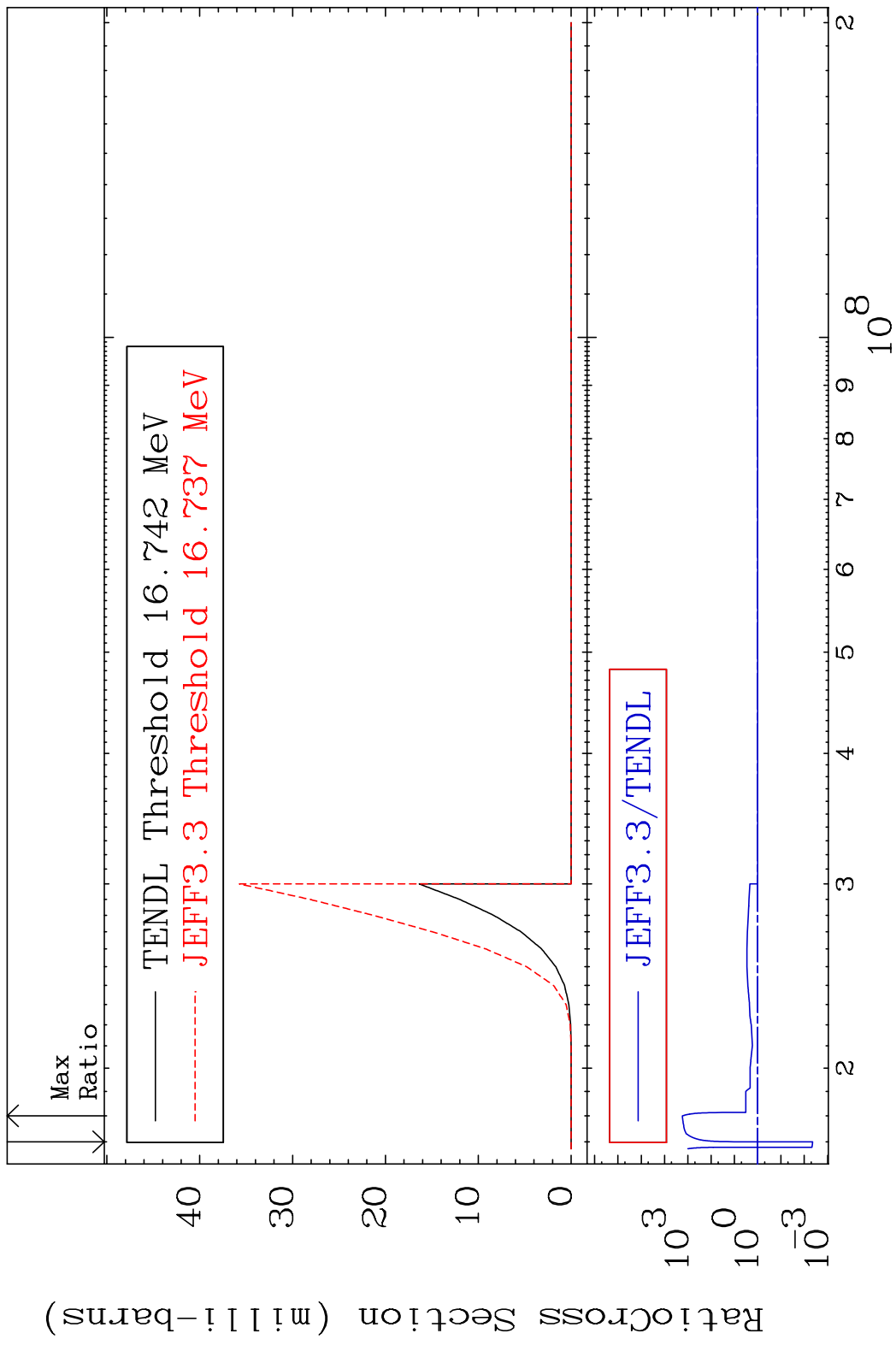
Cross Section -100.0 To 169.9 %



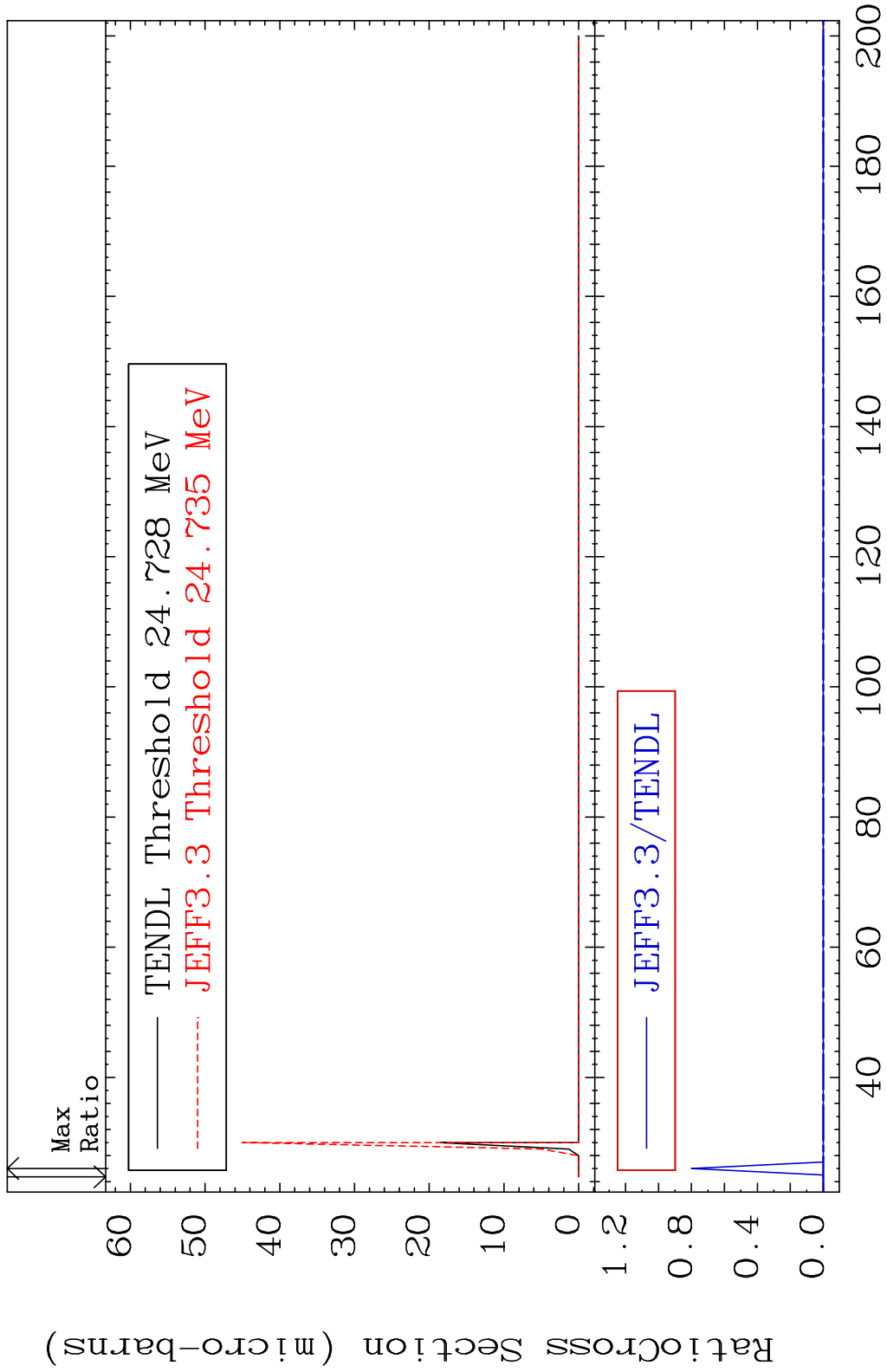
MAT 6025 (n,4n) 60-Nd-142
 Cross Section -100.0 To 978.9 %



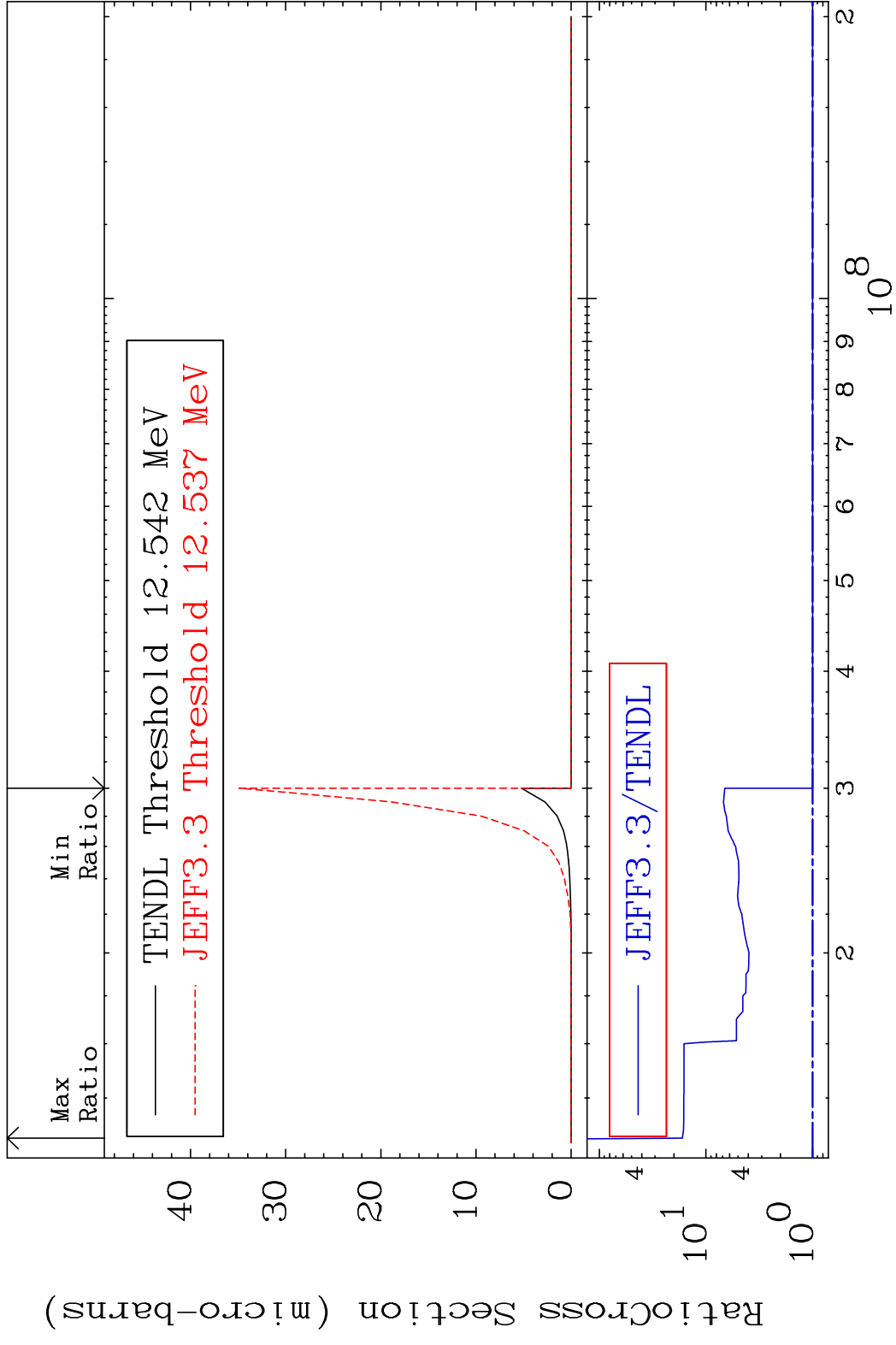
MAT 6025 (n,2n) p 60-Nd-142
 Cross Section -99.56 To 9999. %



MAT 6025 (n,3n) p 60-Nd-142
 Cross Section -100.0 To 9999. %

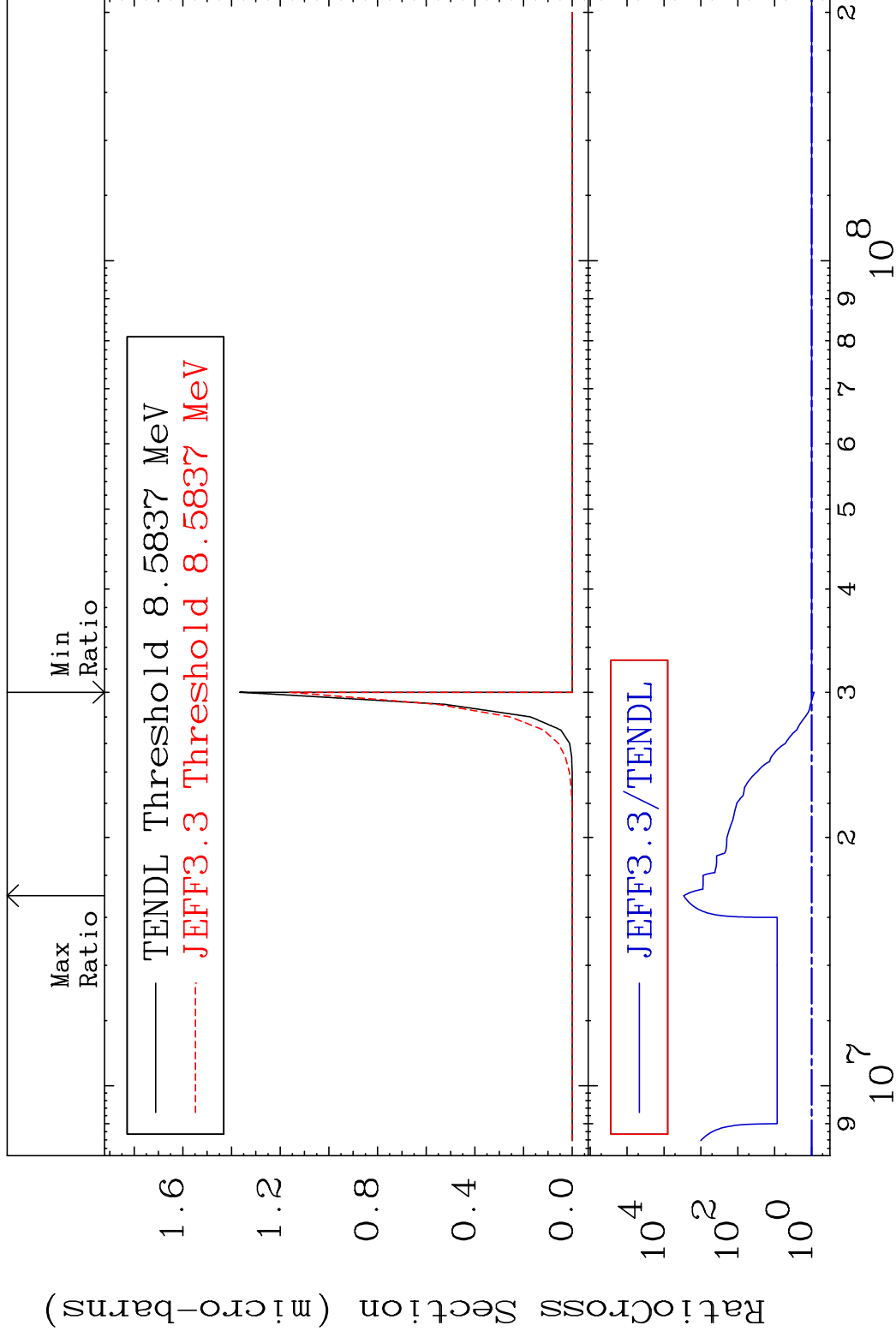


MAT 6025 (n,2n) p 60-Nd-142
 Cross Section 0.000 To 1565. %



MAT 6025

(n, n') p α 60-Nd-142
Cross Section -14.85 To 9999. %

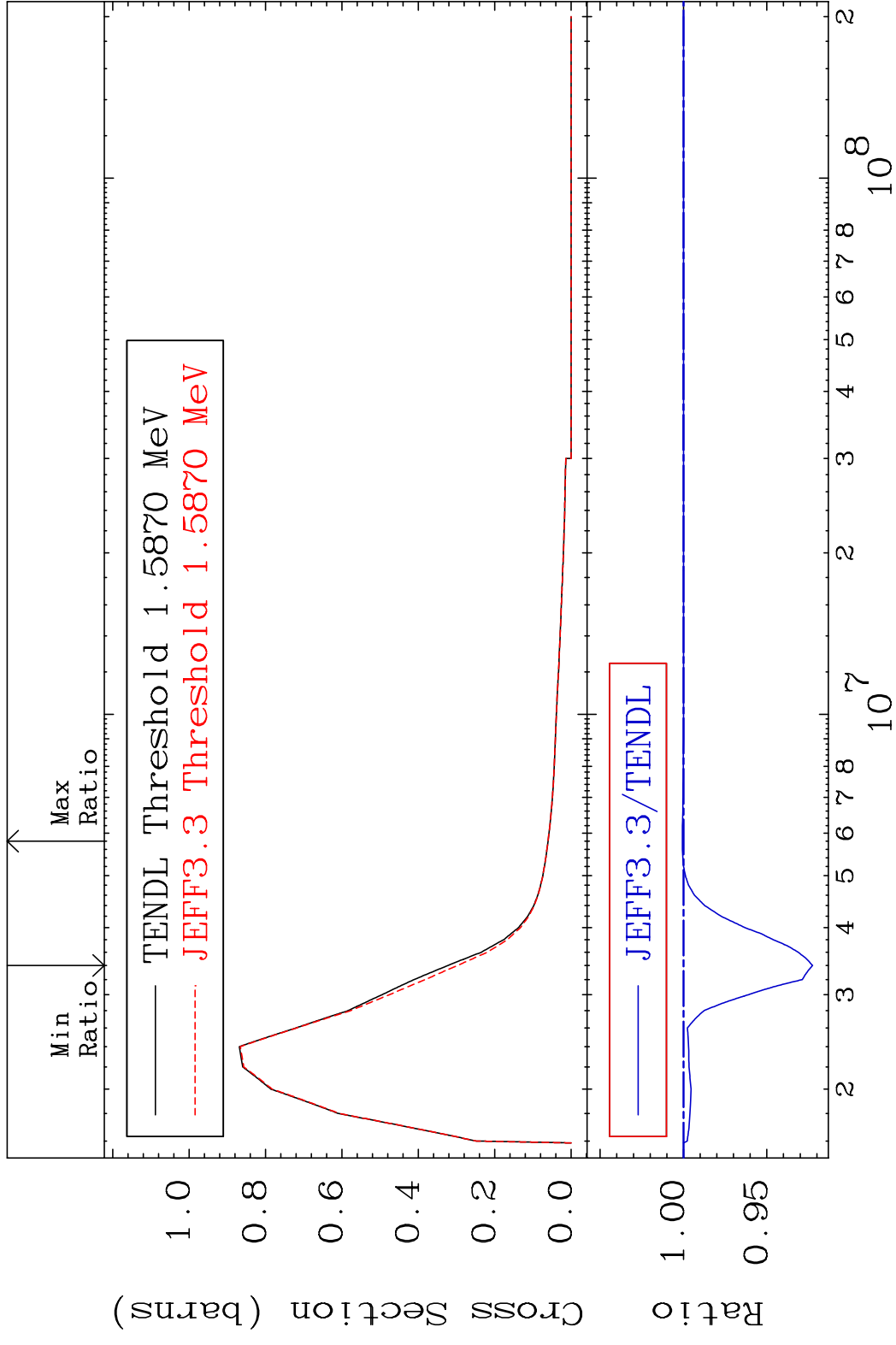


19

Incident Energy (eV)

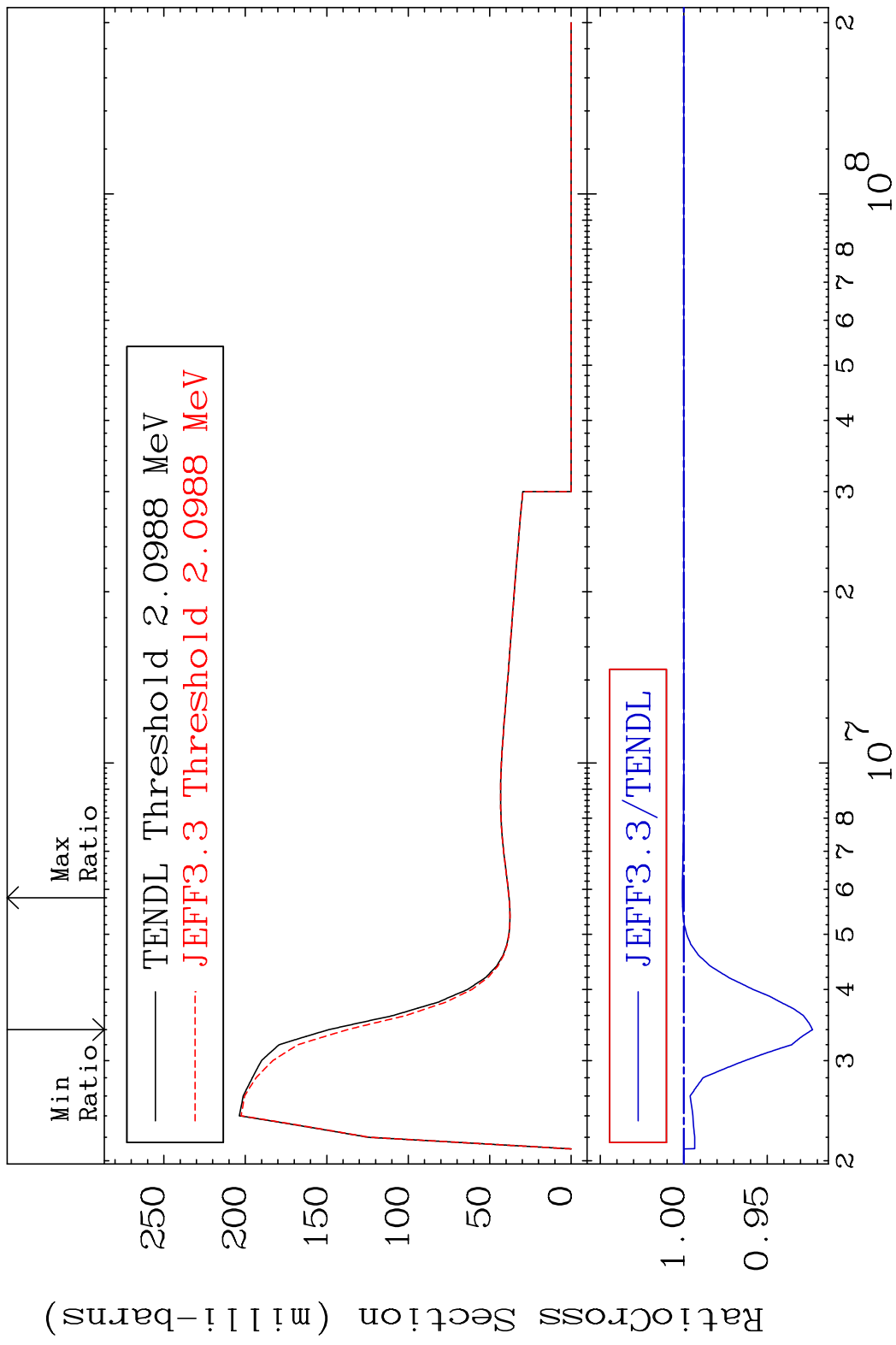
60-Nd-142

MAT 6025 MT= 51 (n,n') Level 60-Nd-142
 Cross Section -7.741 To 0.069 %

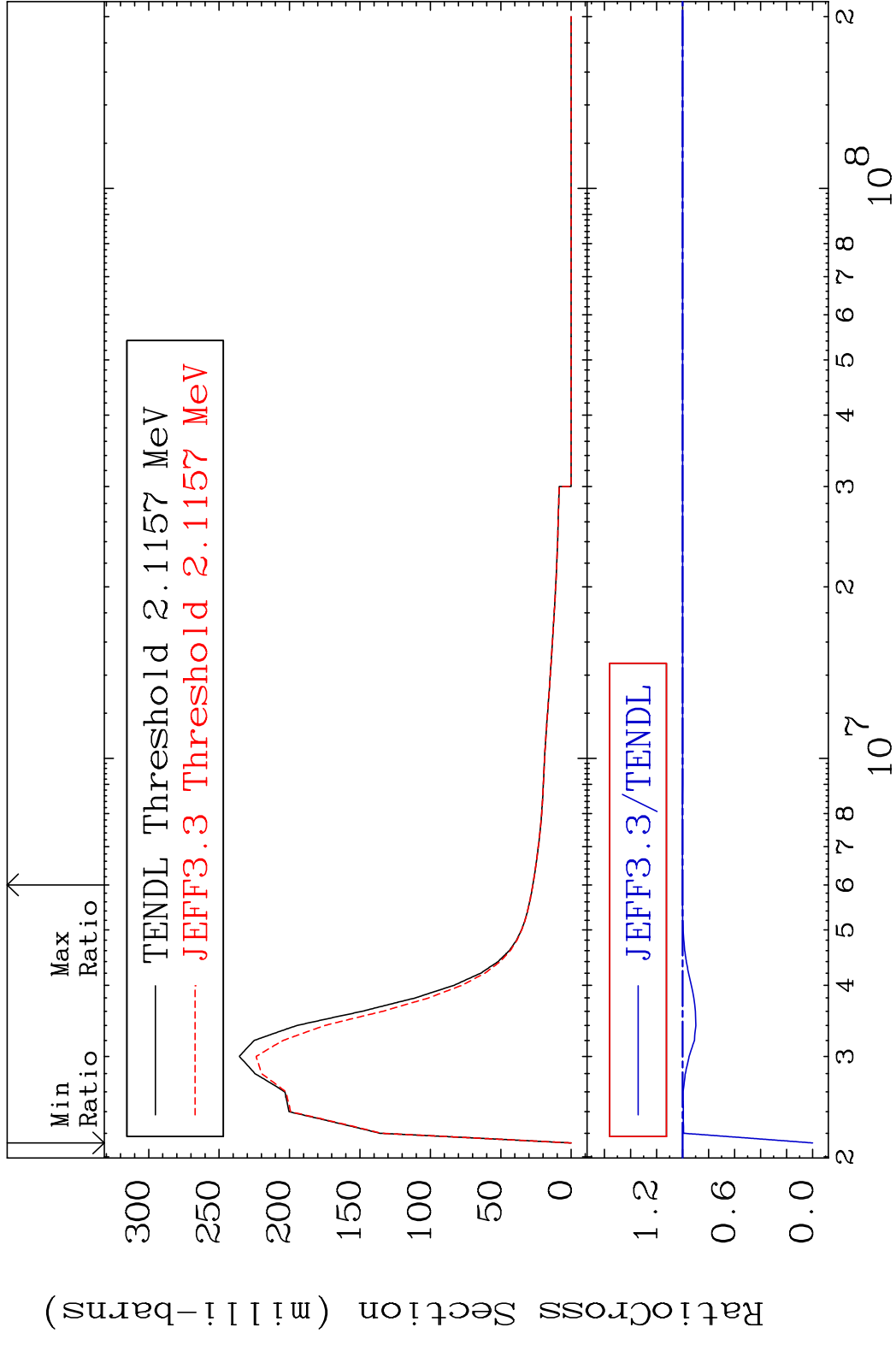


20 Incident Energy (eV) 60-Nd-142

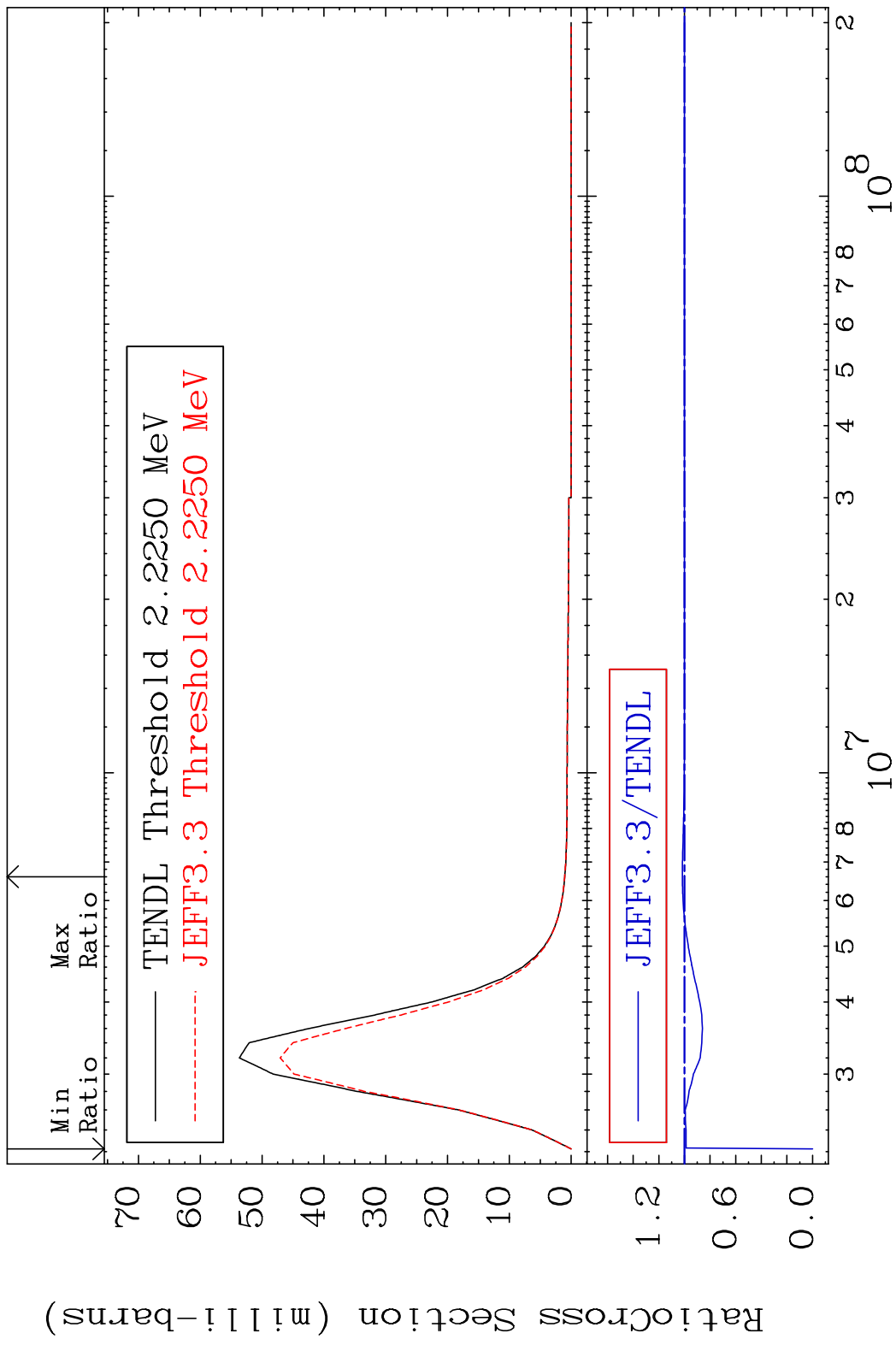
MAT 6025 MT= 52 (n, n') Level 60-Nd-142
 Cross Section -7.716 To 0.082 %



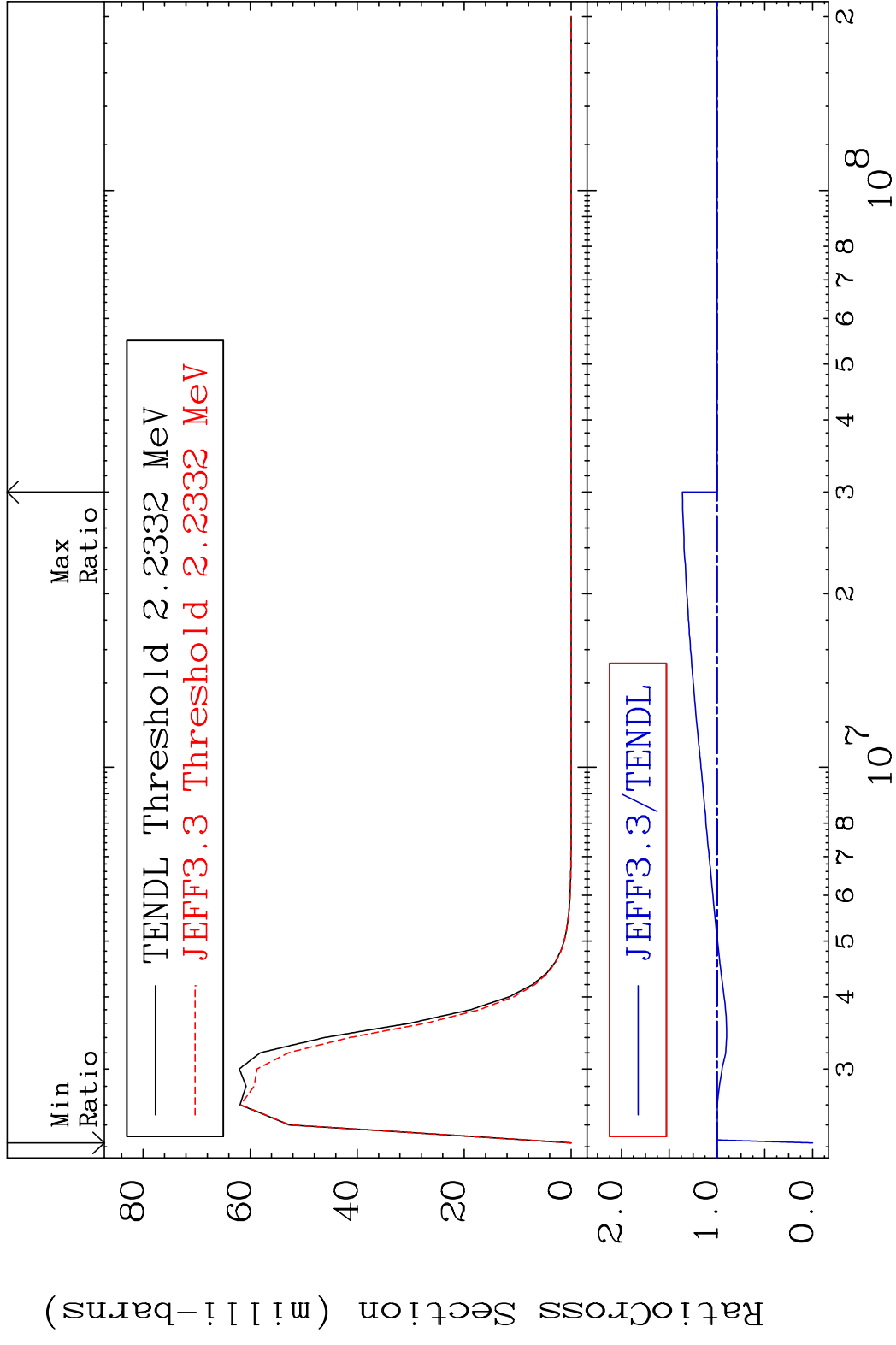
MAT 6025 MT= 53 (n, n') Level 60-Nd-142
 Cross Section -100.0 To 0.129 %



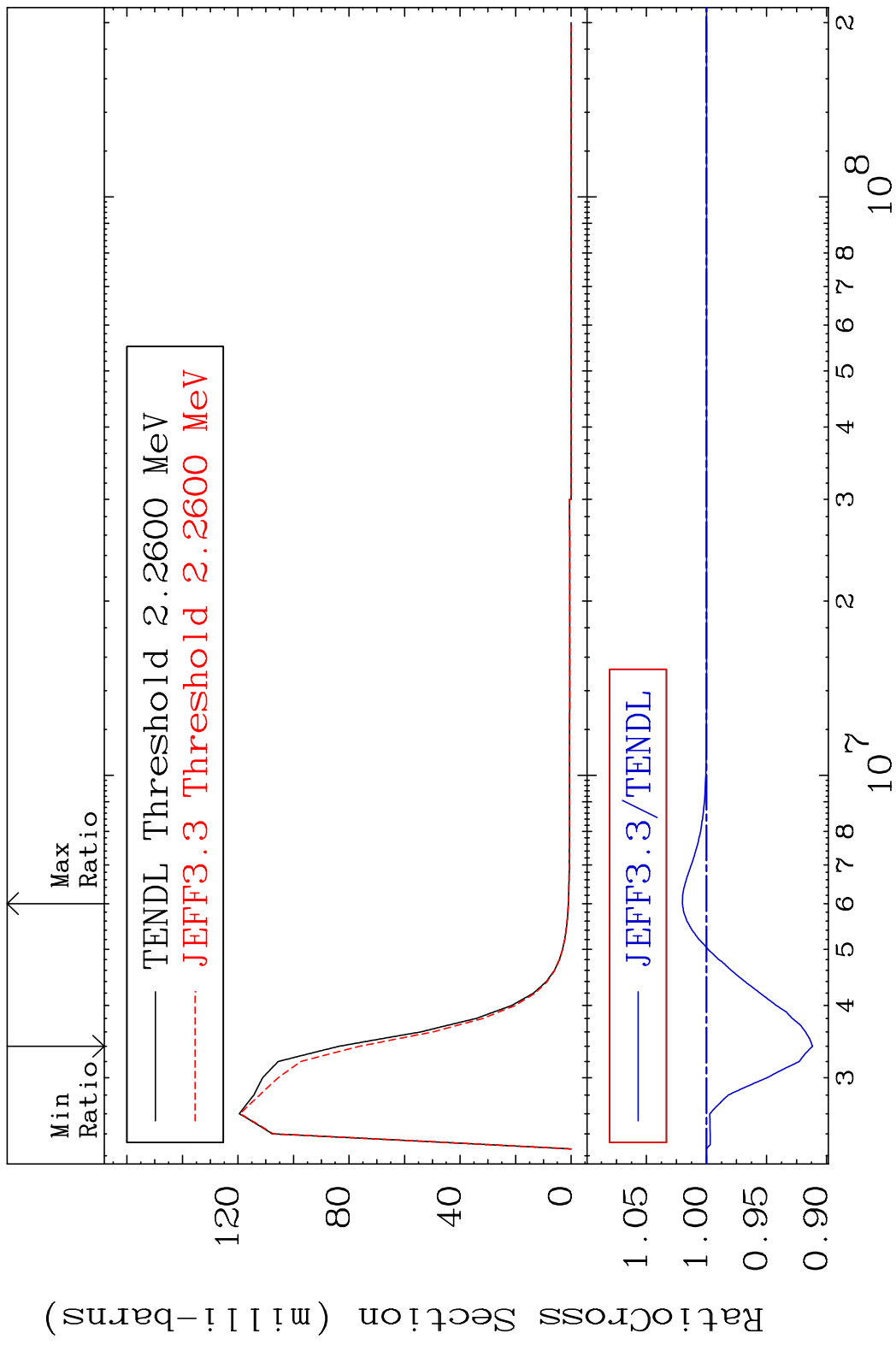
MAT 6025 MT= 54 (n, n') Level 60-Nd-142
 Cross Section -100.0 To 1.637 %



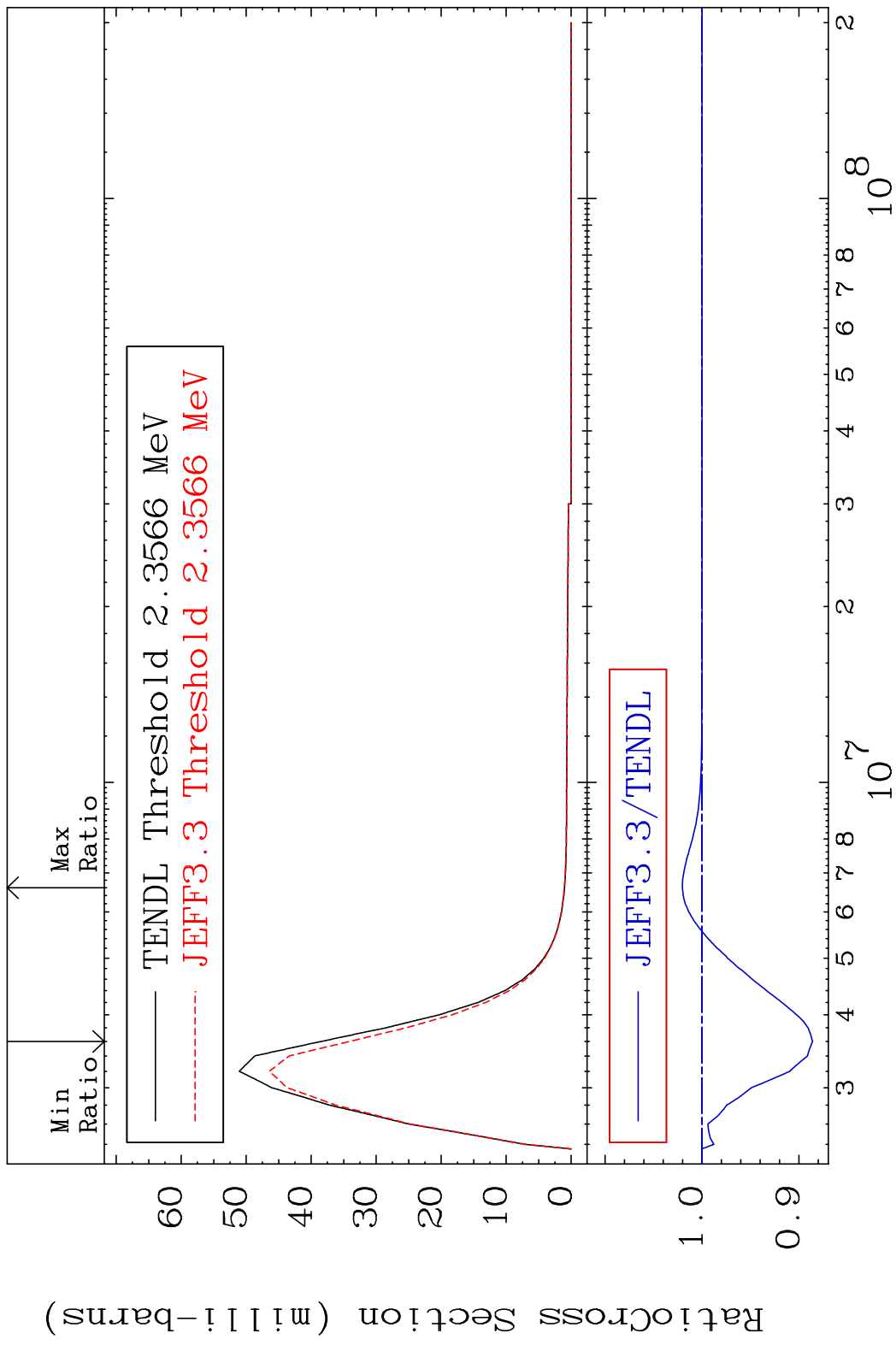
MAT 6025 MT= 55 (n, n') Level 60-Nd-142
 Cross Section -100.0 To 36.28 %



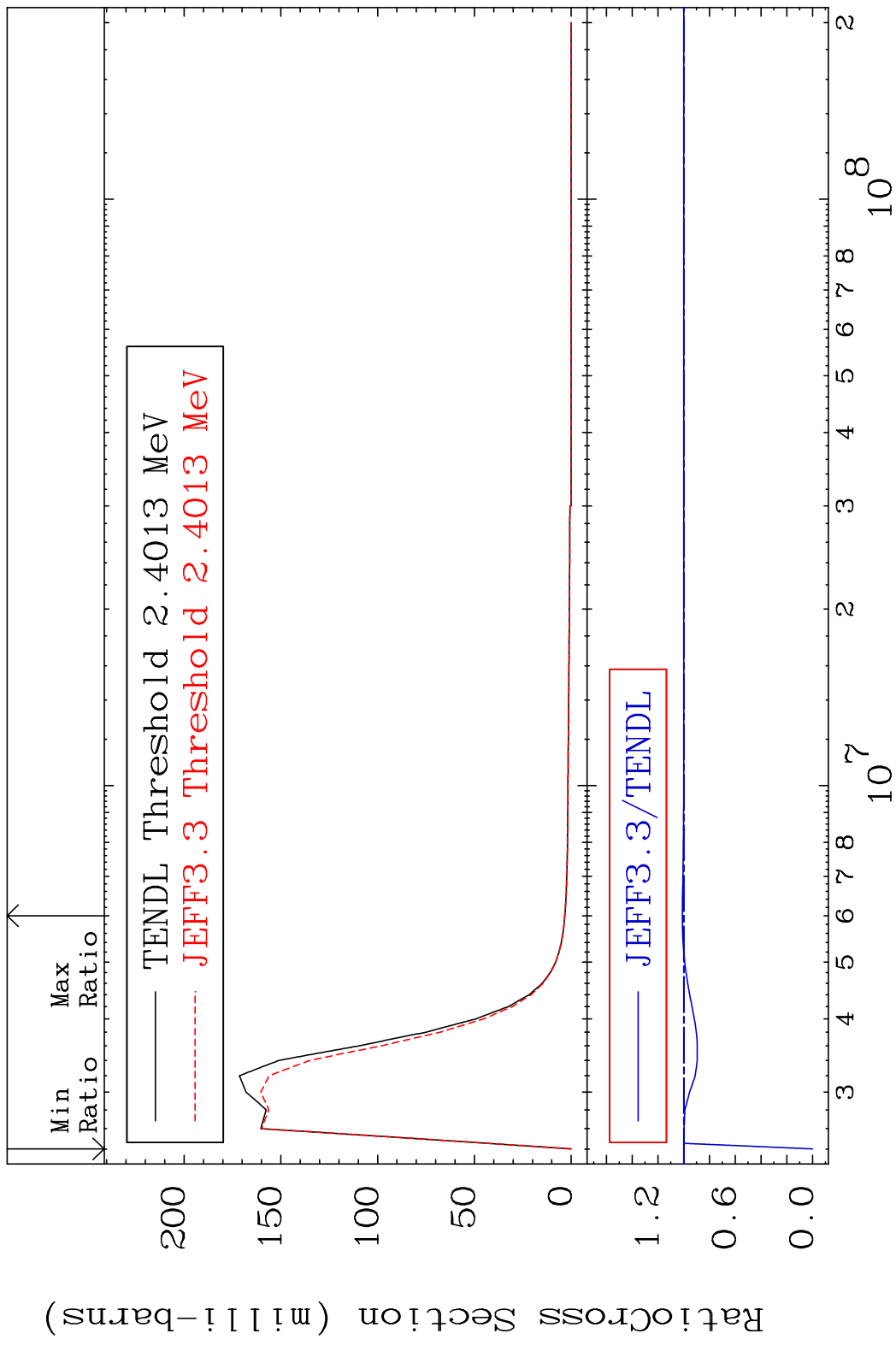
MAT 6025 MT= 56 (n, n') Level 60-Nd-142
 Cross Section -8.832 To 2.010 %



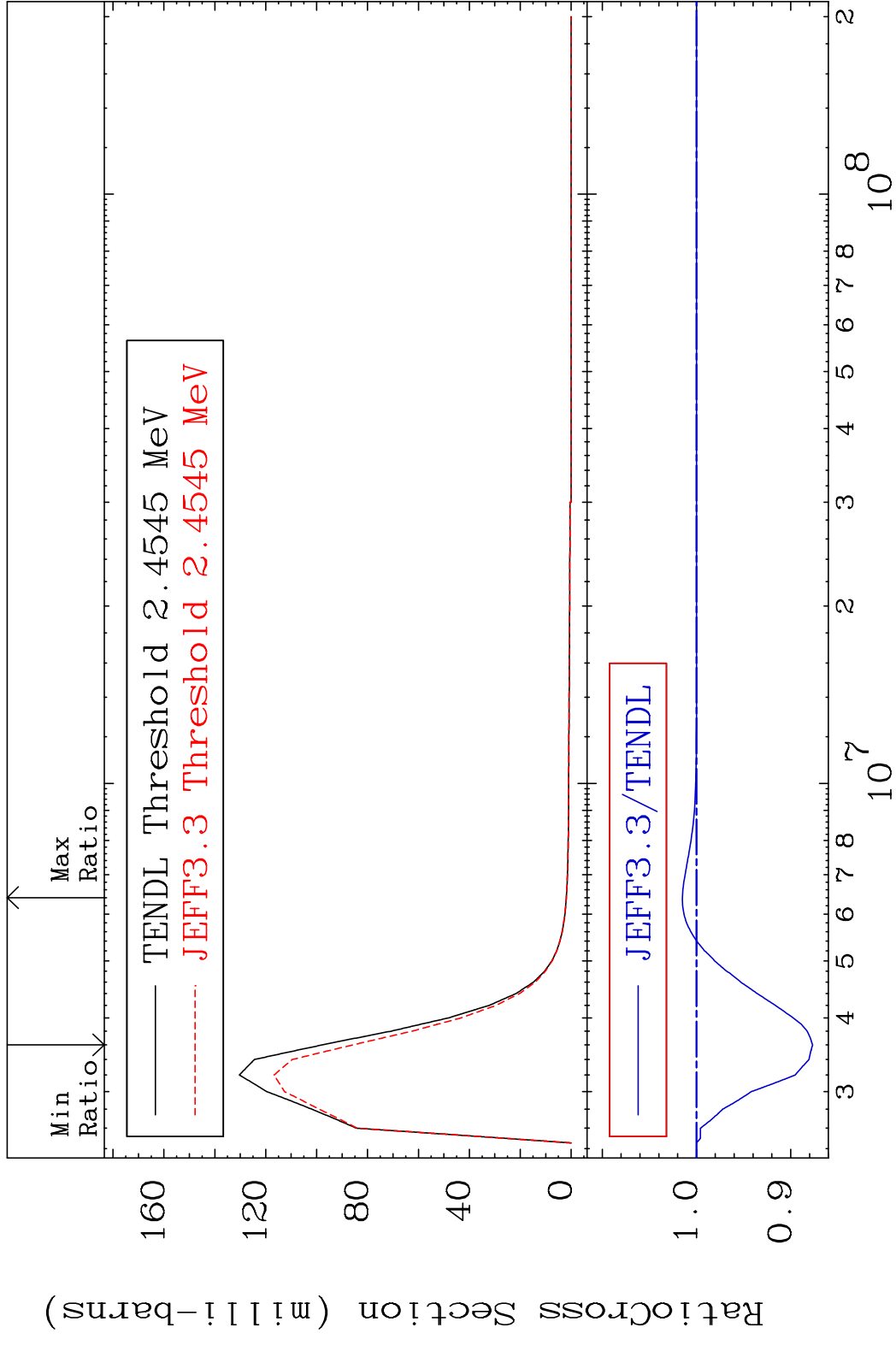
MAT 6025 MT= 57 (n, n') Level 60-Nd-142
 Cross Section -11.42 To 2.017 %



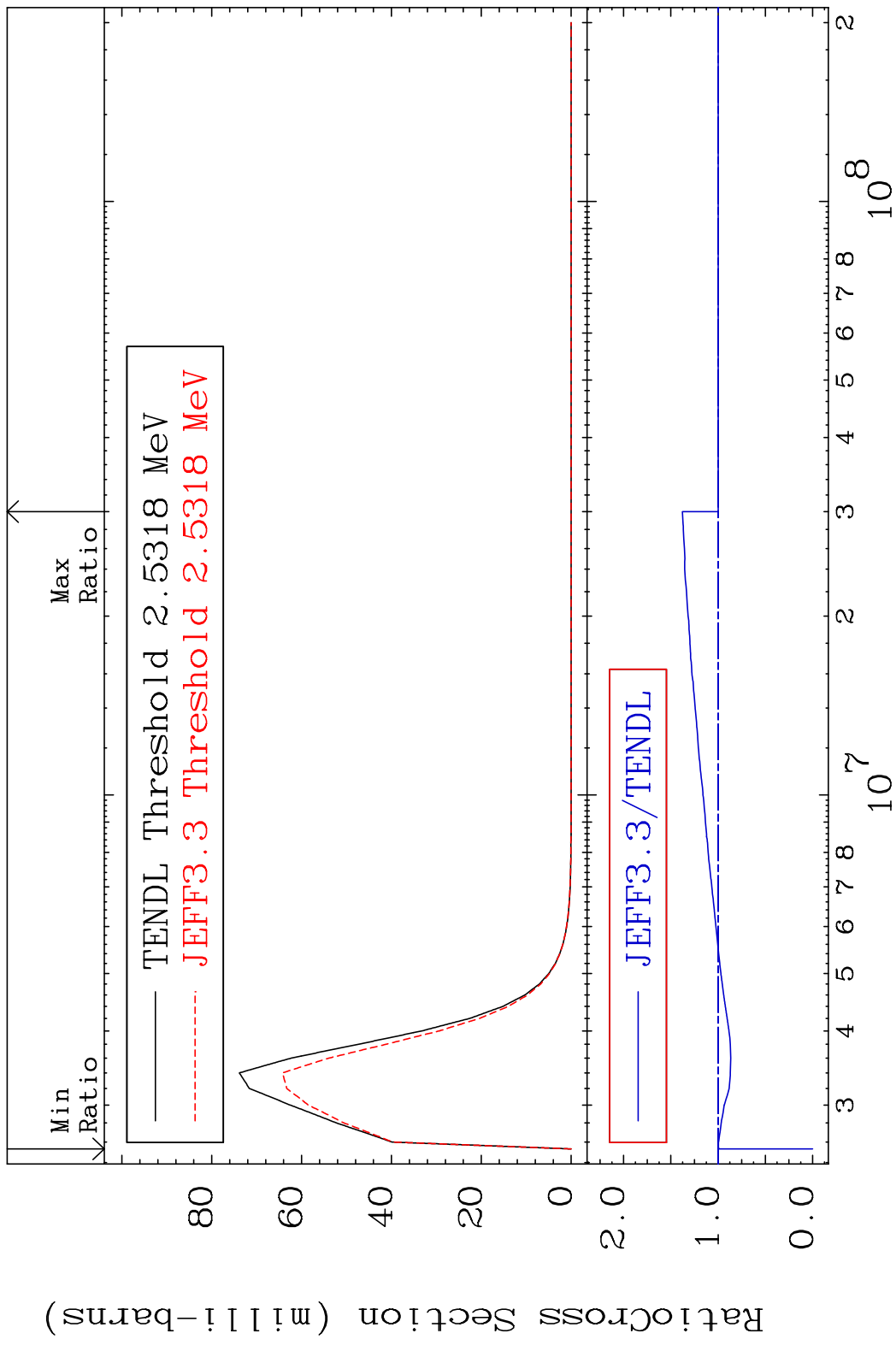
MAT 6025 MT= 58 (n, n') Level 60-Nd-142
 Cross Section -100.0 To 1.073 %



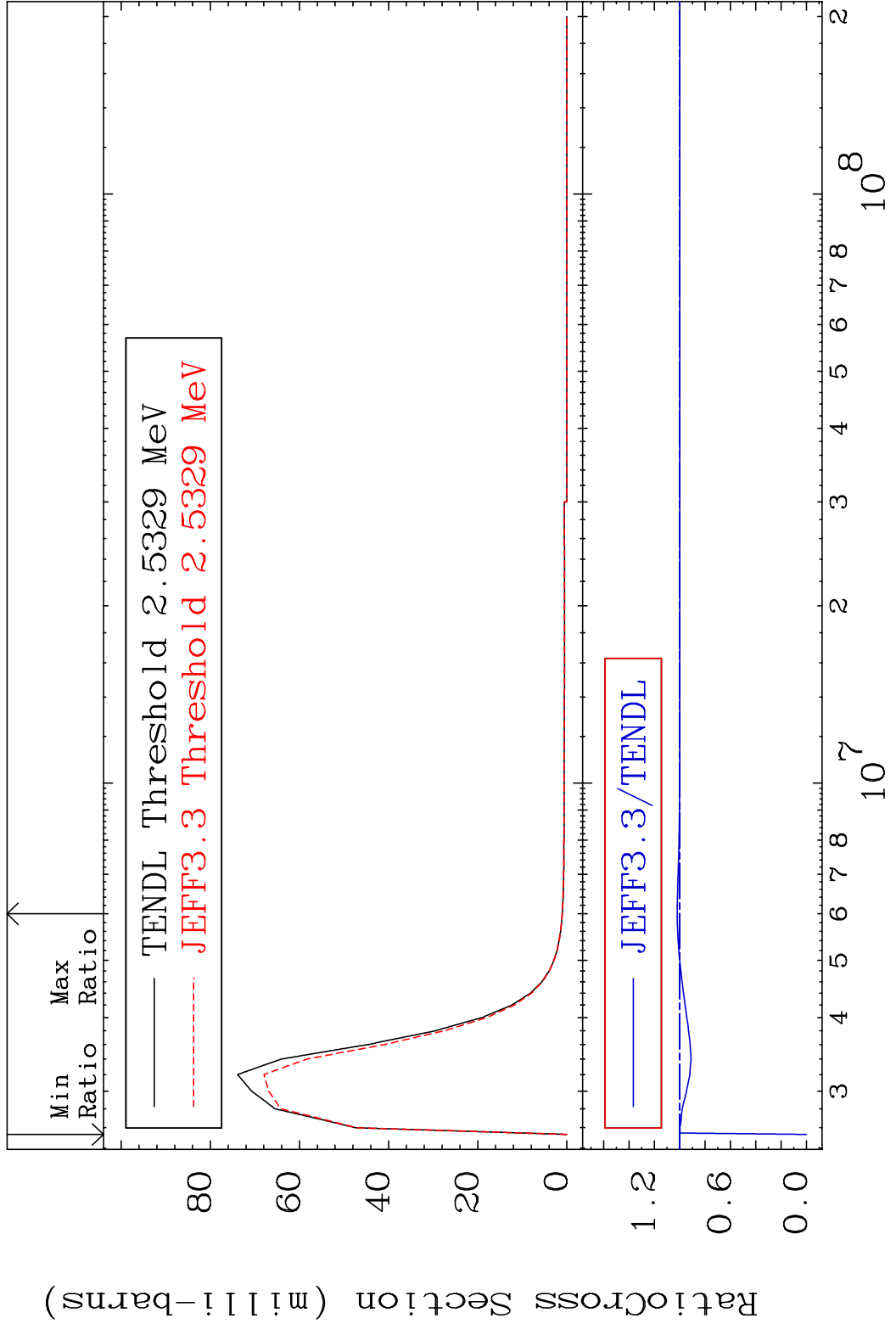
MAT 6025 MT= 59 (n, n') Level 60-Nd-142
 Cross Section -12.31 To 1.500 %



MAT 6025 MT= 60 (n, n') Level 60-Nd-142
 Cross Section -100.0 To 37.83 %

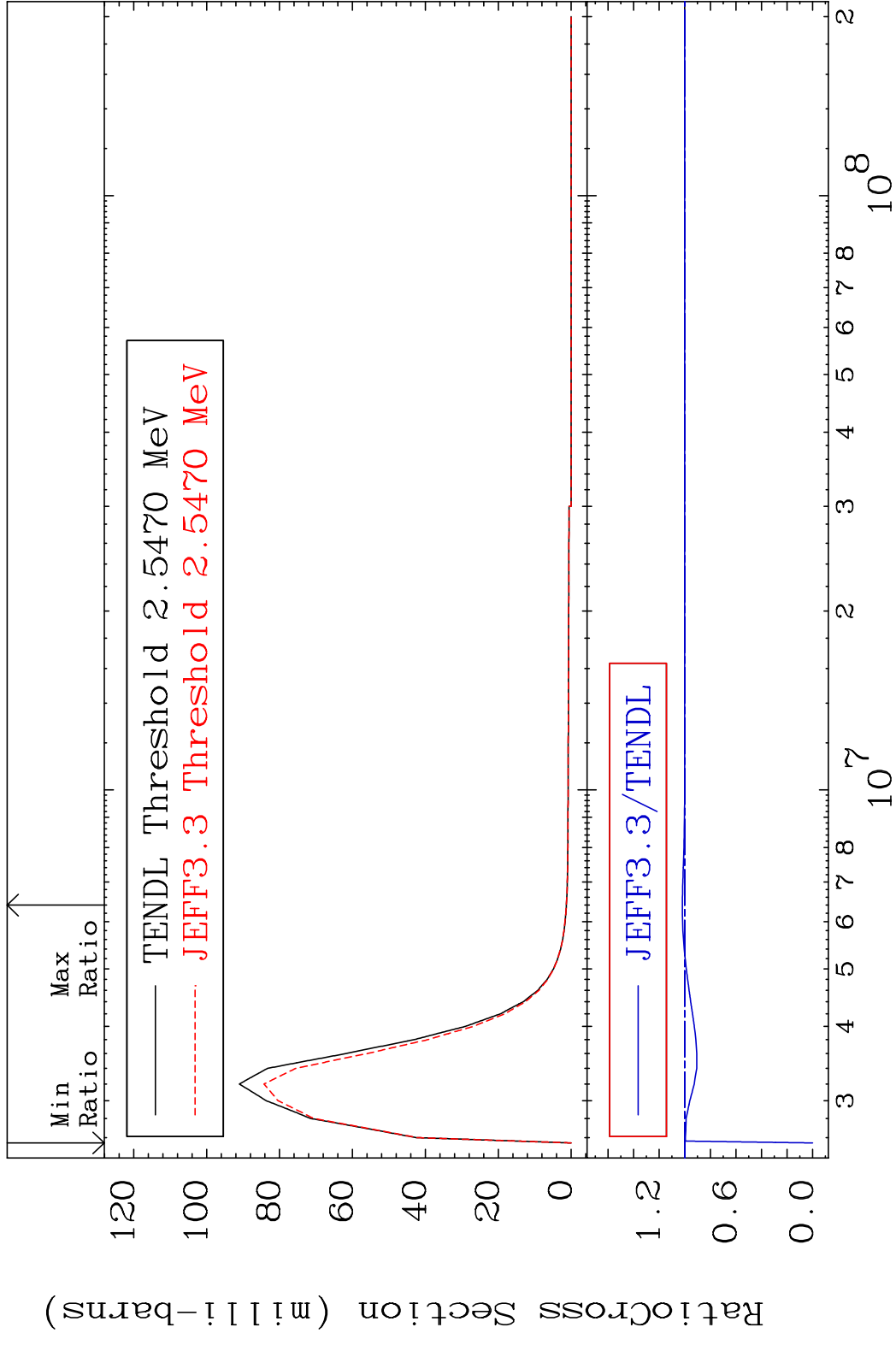


MAT 6025 MT= 61 (n, n') Level 60-Nd-142
 Cross Section -100.0 To 1.930 %

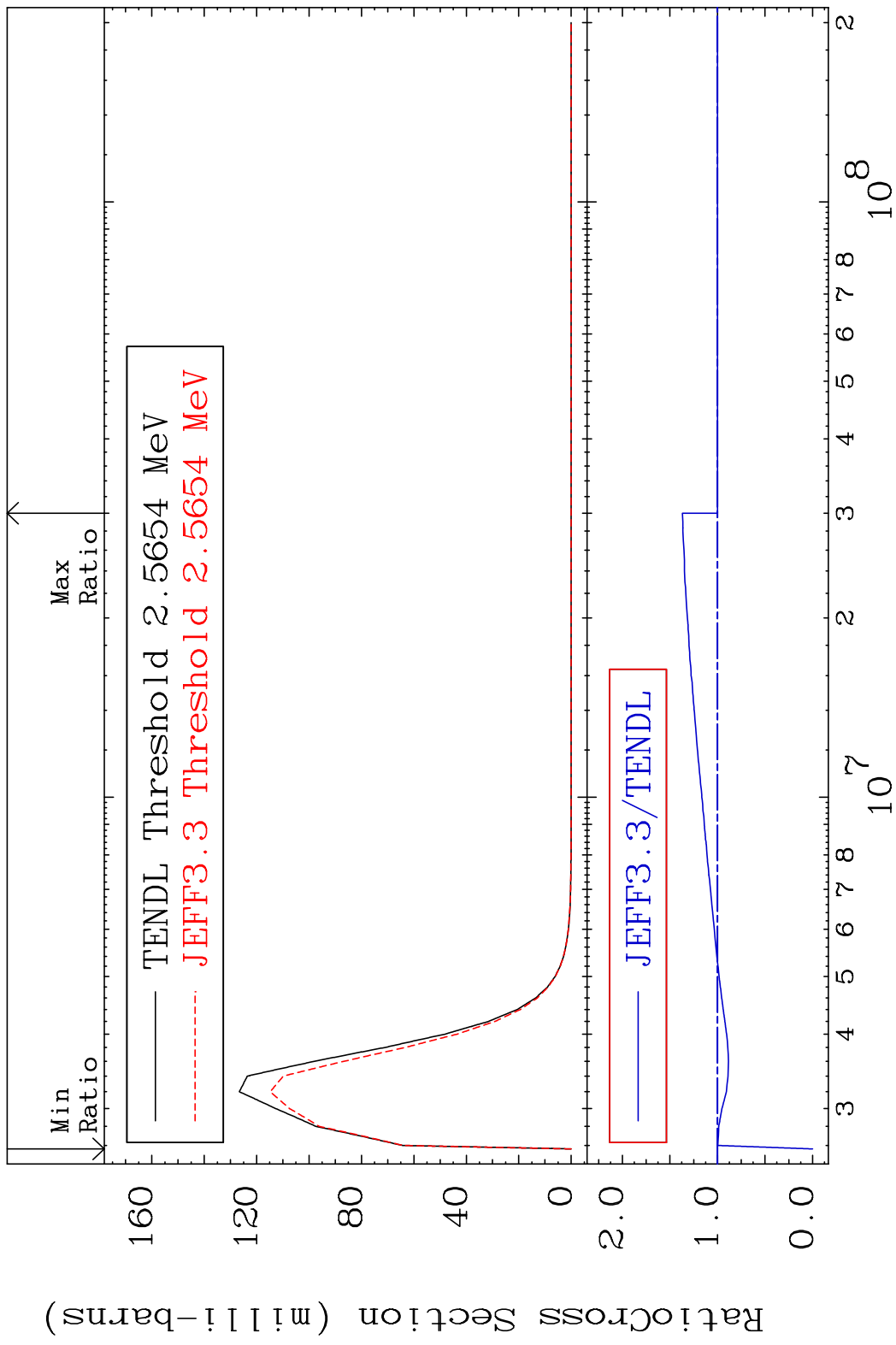


30

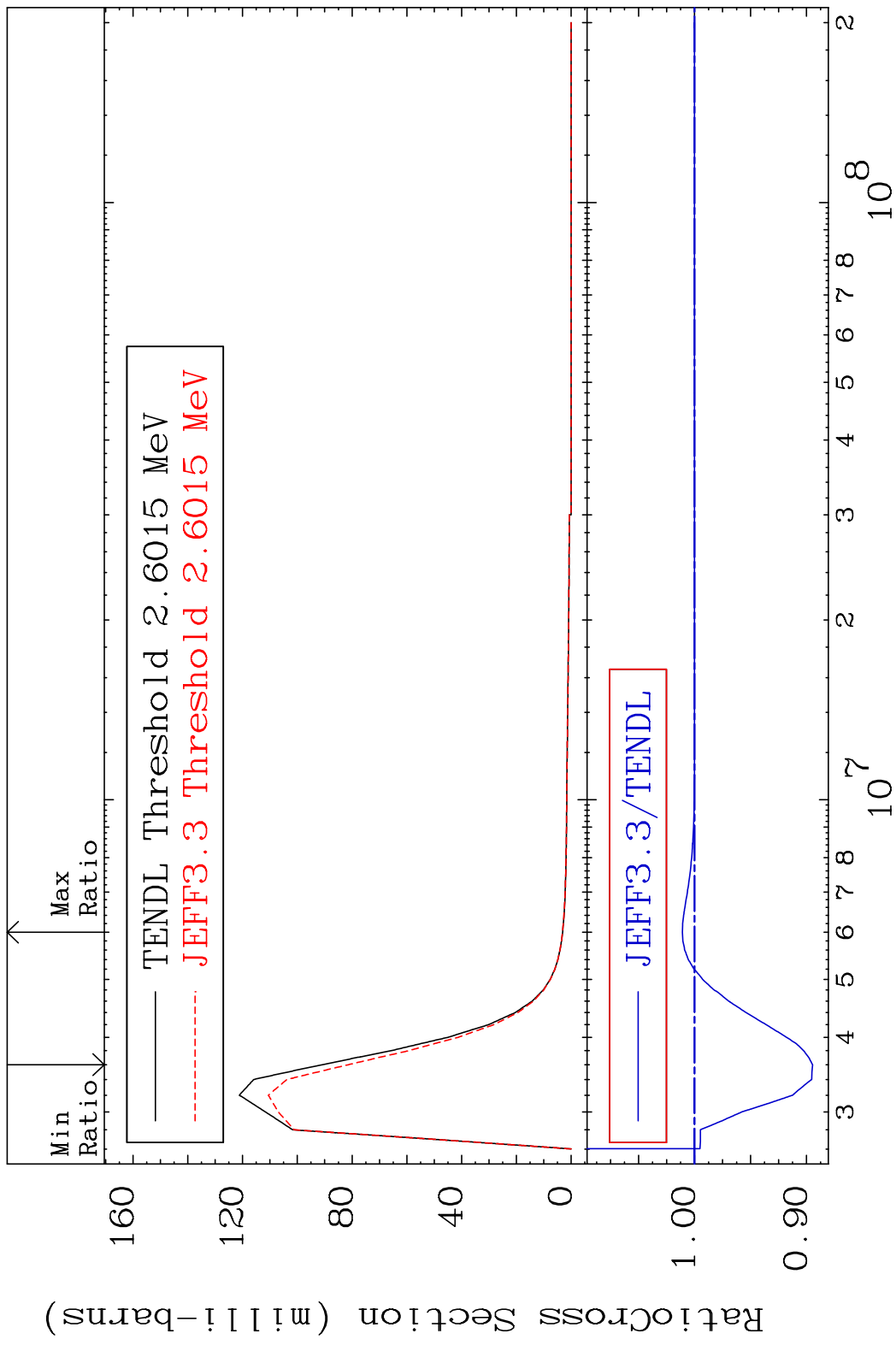
MAT 6025 MT= 62 (n, n') Level 60-Nd-142
 Cross Section -100.0 To 1.890 %



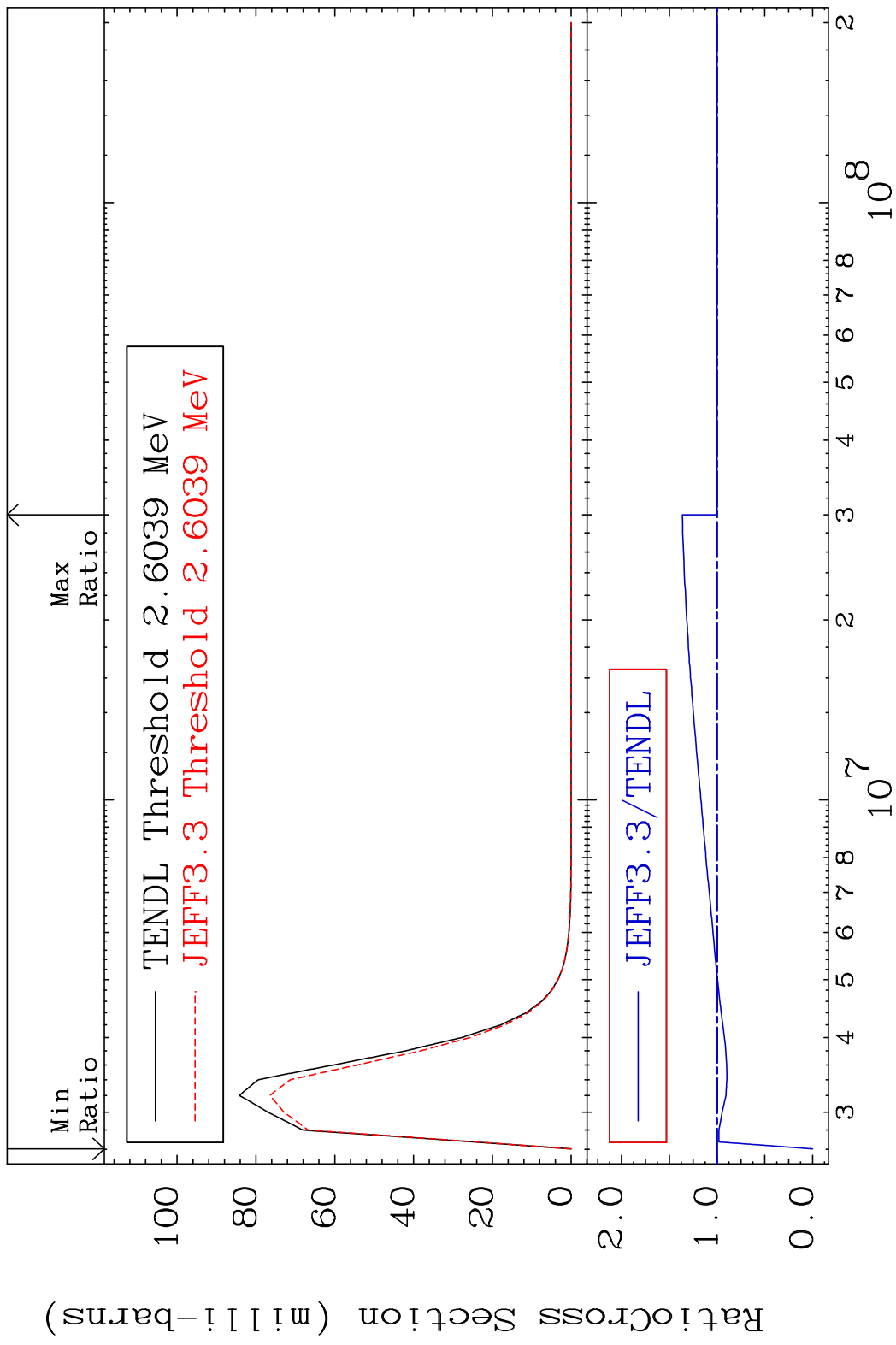
MAT 6025 MT= 63 (n, n') Level 60-Nd-142
 Cross Section -100.0 To 36.92 %



MAT 6025 MT= 64 (n, n') Level 60-Nd-142
 Cross Section -10.54 To 1.089 %

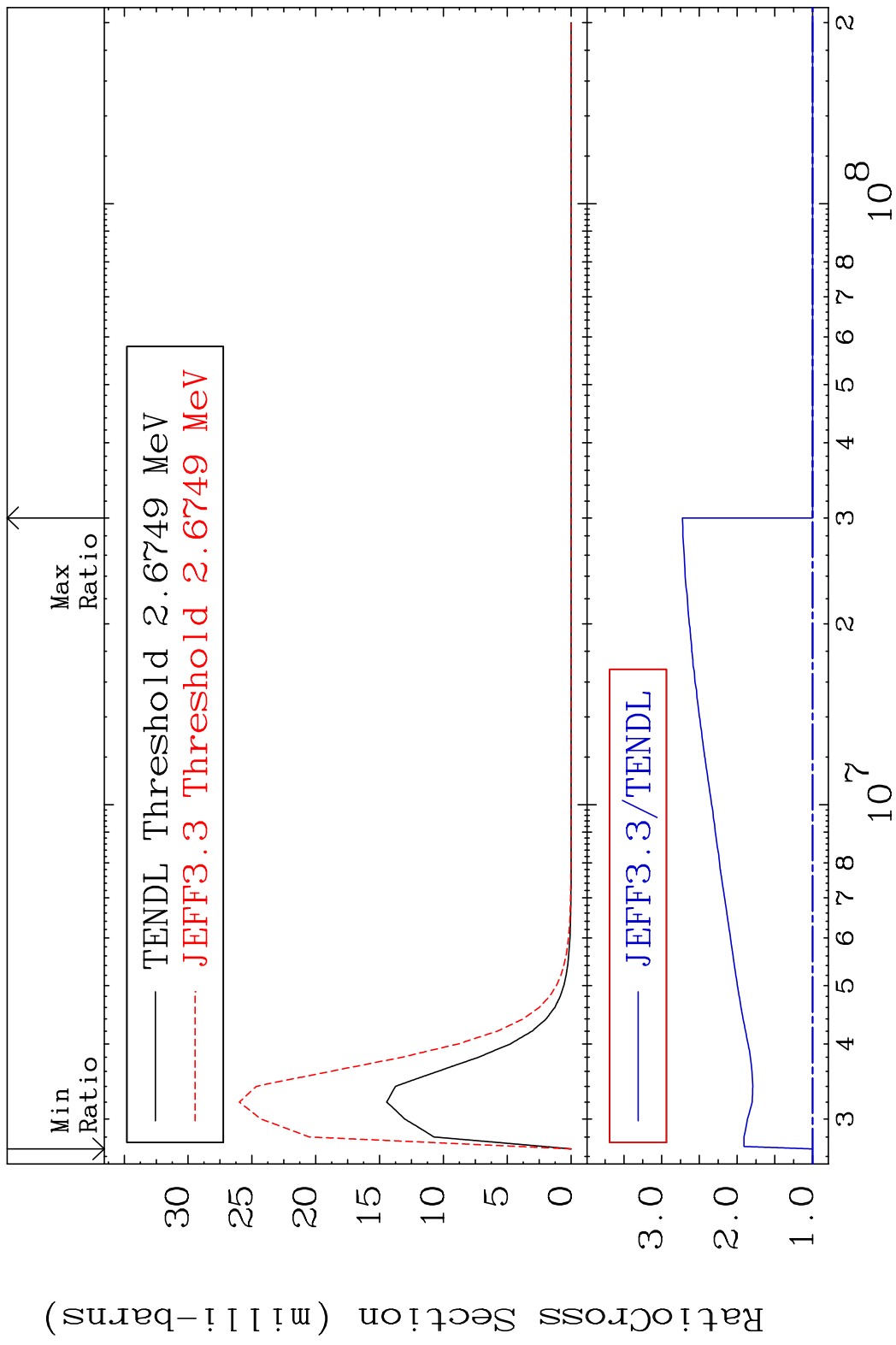


MAT 6025 MT= 65 (n, n') Level 60-Nd-142
 Cross Section -100.0 To 36.36 %

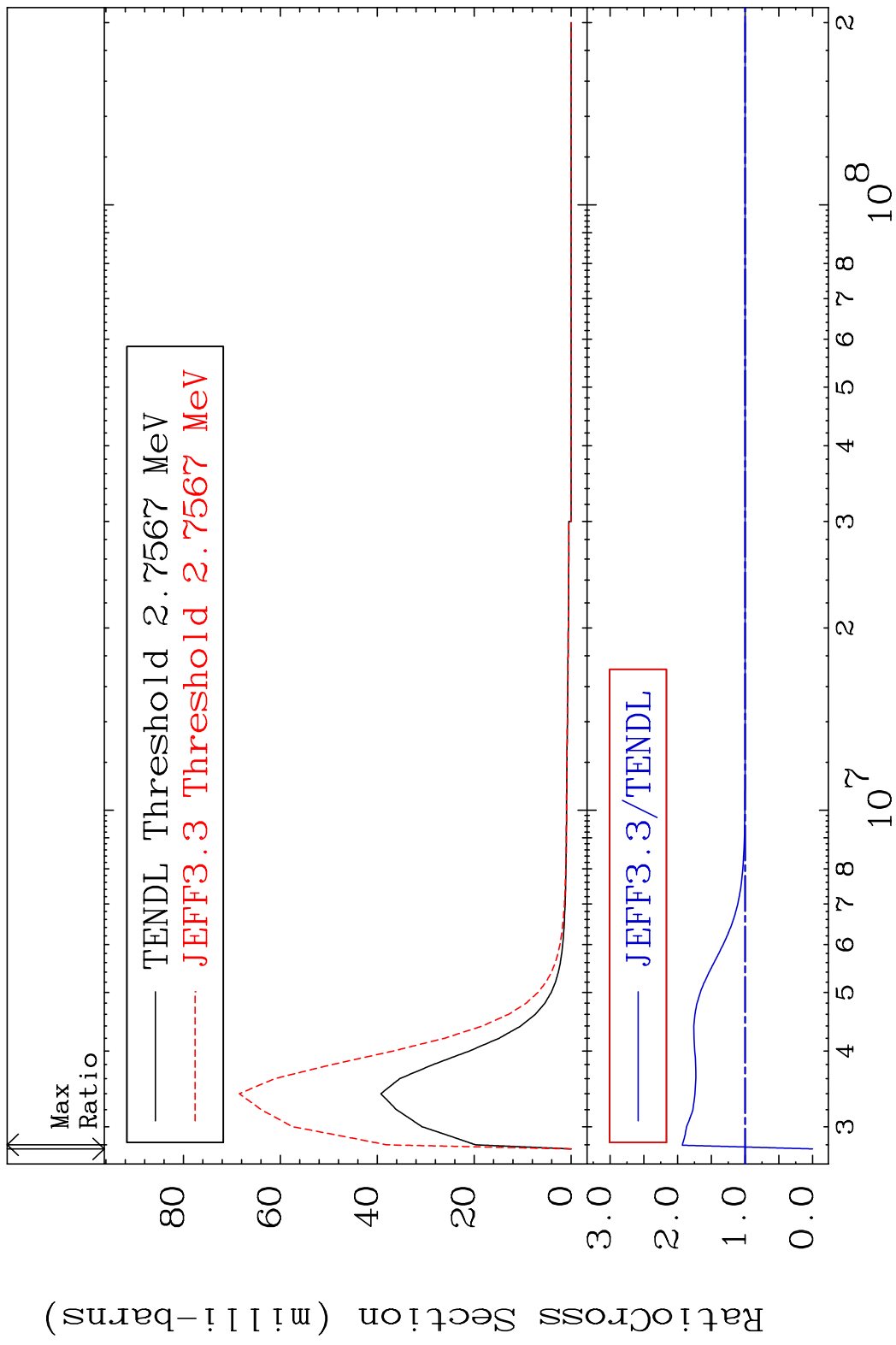


34 Incident Energy (eV) 60-Nd-142

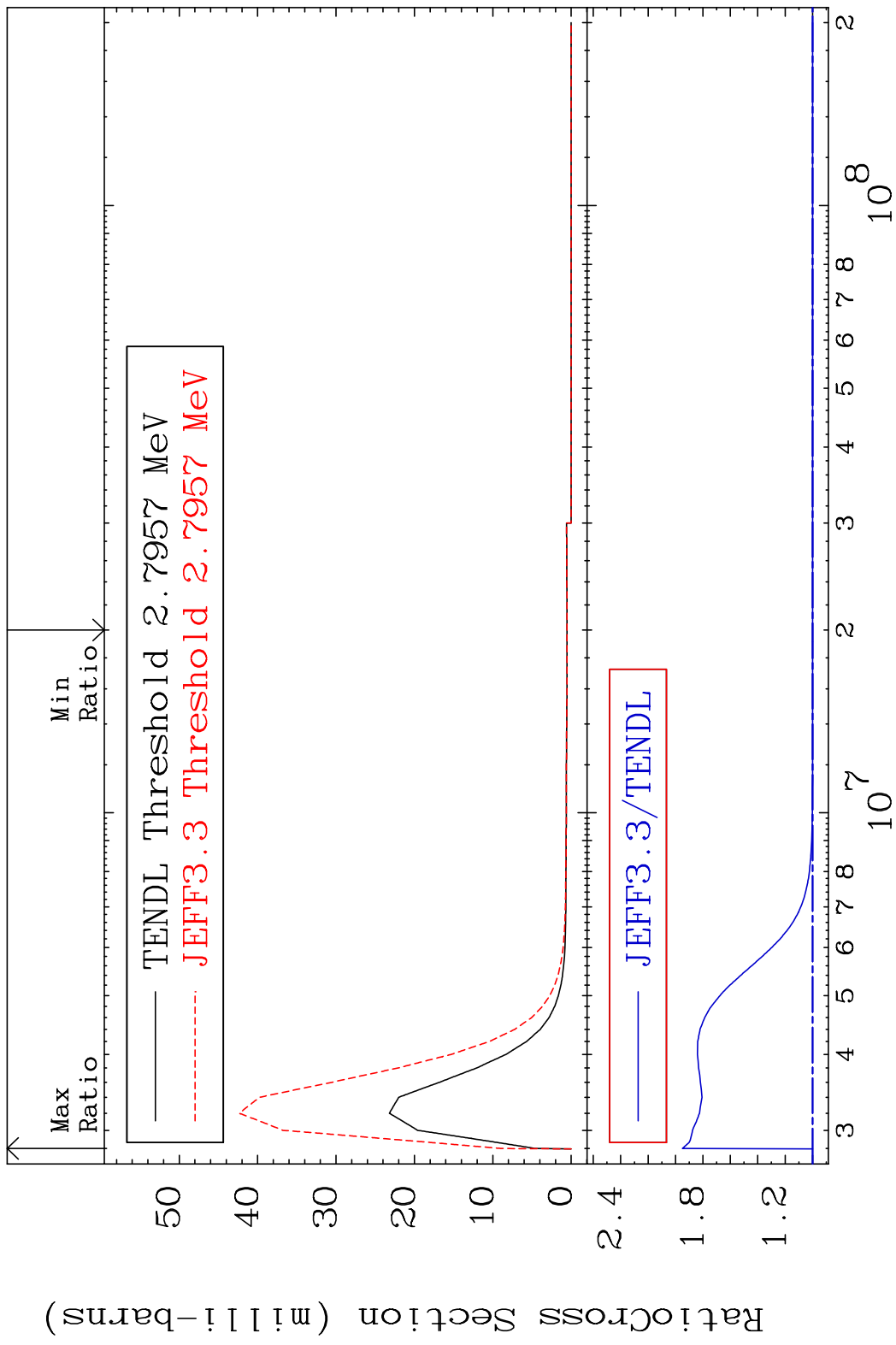
MAT 6025 MT= 66 (n, n') Level 60-Nd-142
 Cross Section 0.000 To 172.6 %



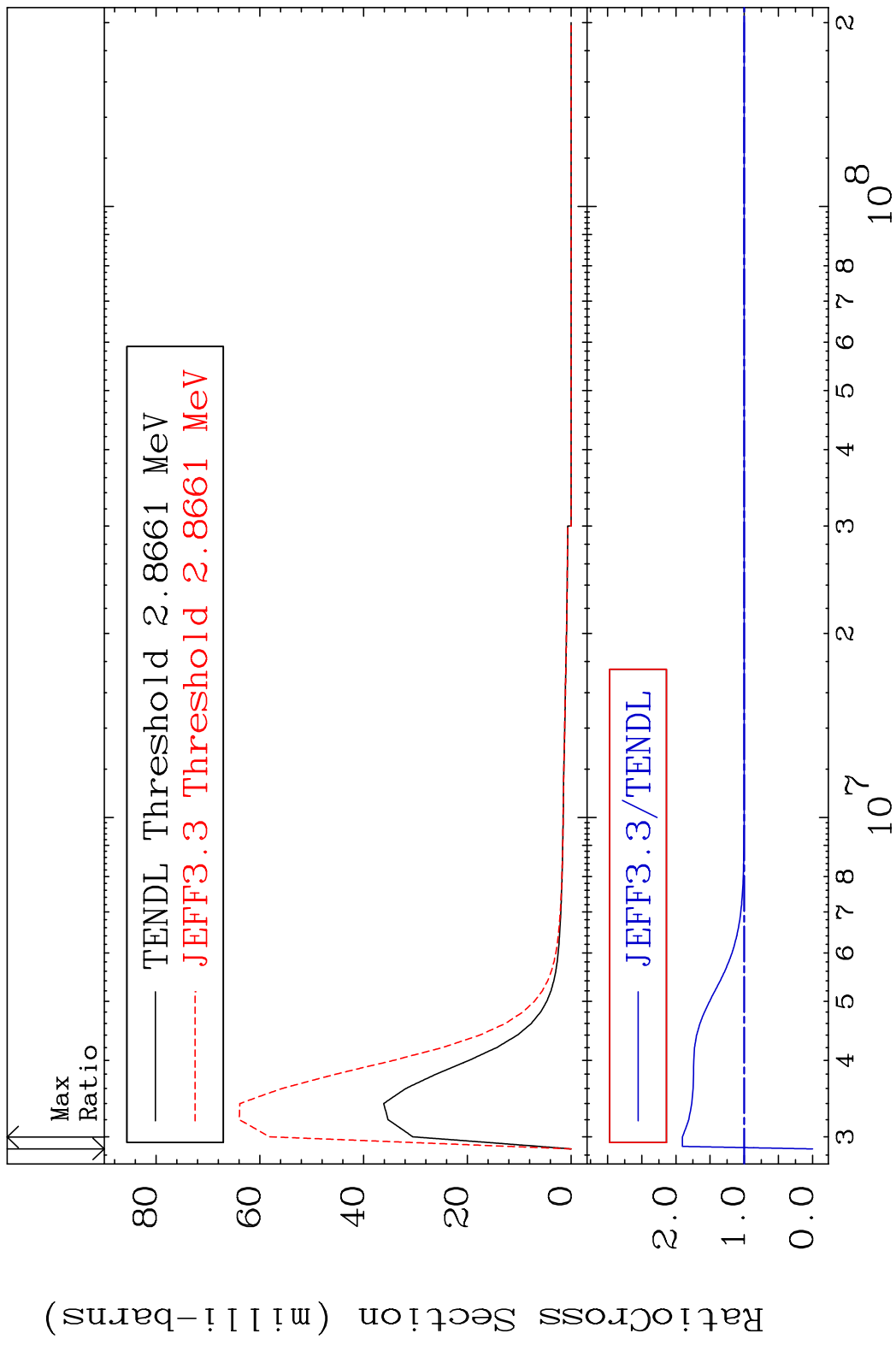
MAT 6025 MT= 67 (n, n') Level 60-Nd-142
 Cross Section -100.0 To 93.03 %



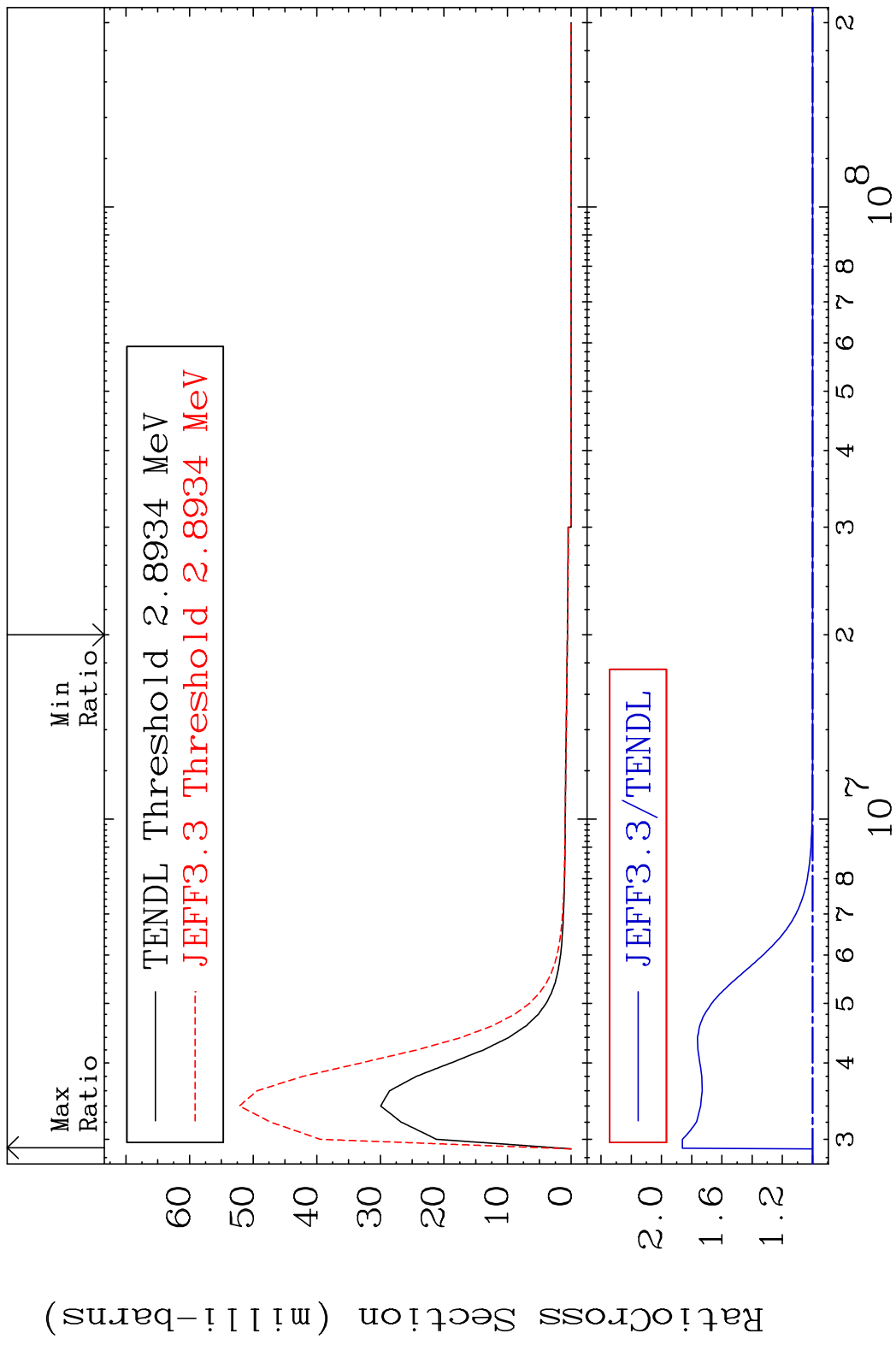
MAT 6025 MT= 68 (n, n') Level 60-Nd-142
 Cross Section 0.000 To 95.01 %



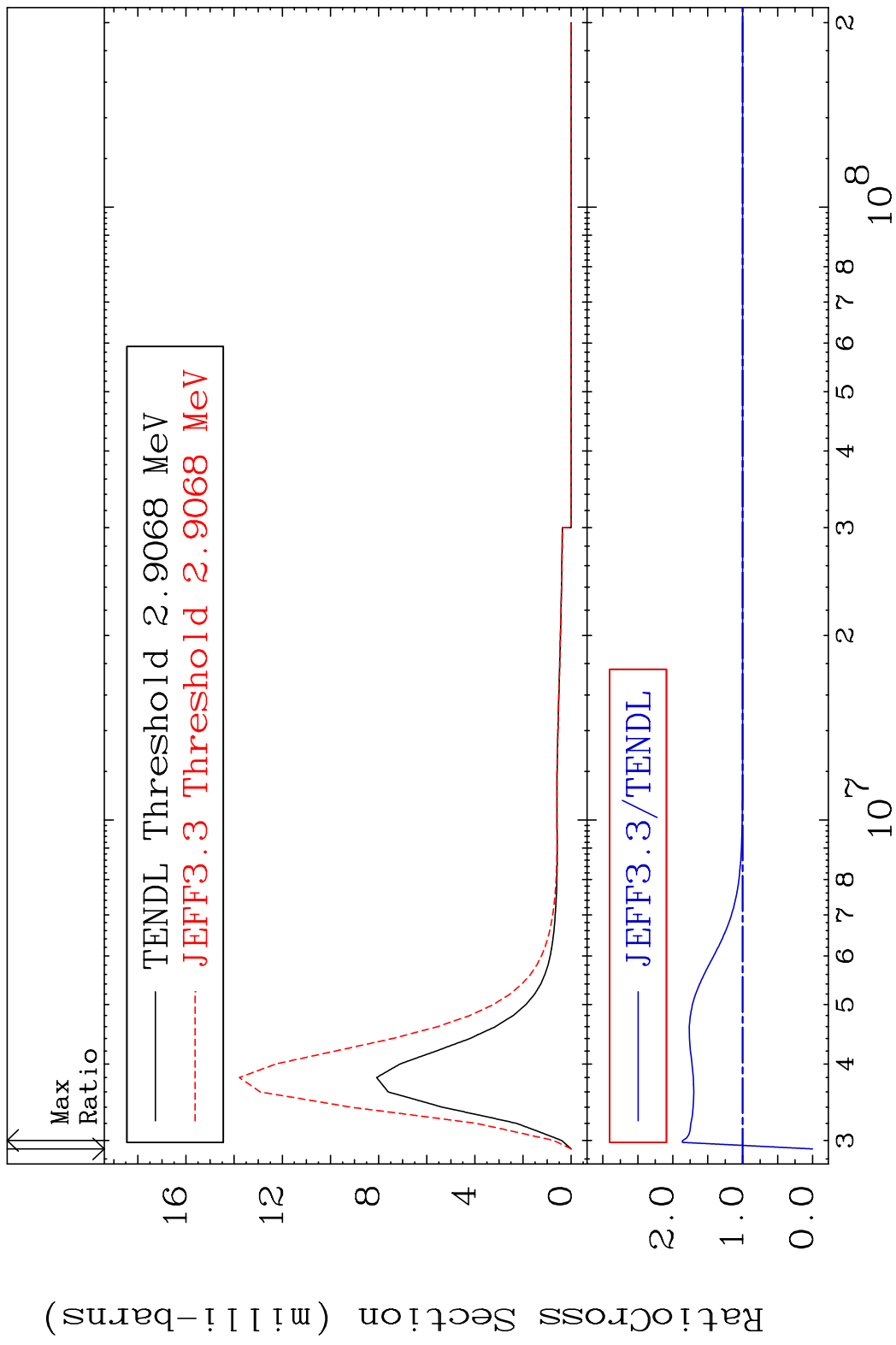
MAT 6025 MT= 69 (n, n') Level 60-Nd-142
 Cross Section -100.0 To 90.56 %



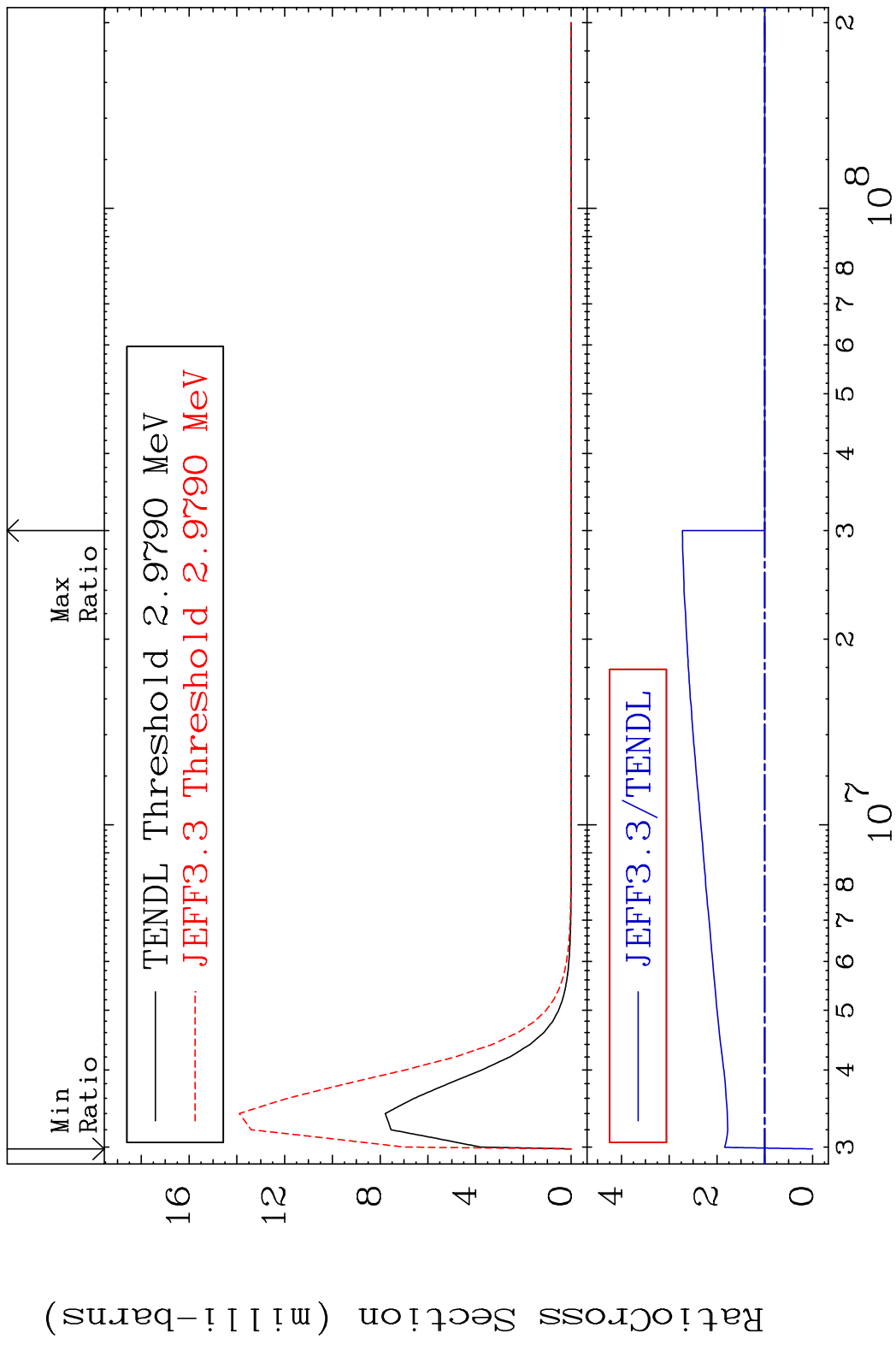
MAT 6025 MT= 70 (n, n') Level 60-Nd-142
 Cross Section 0.000 To 86.19 %



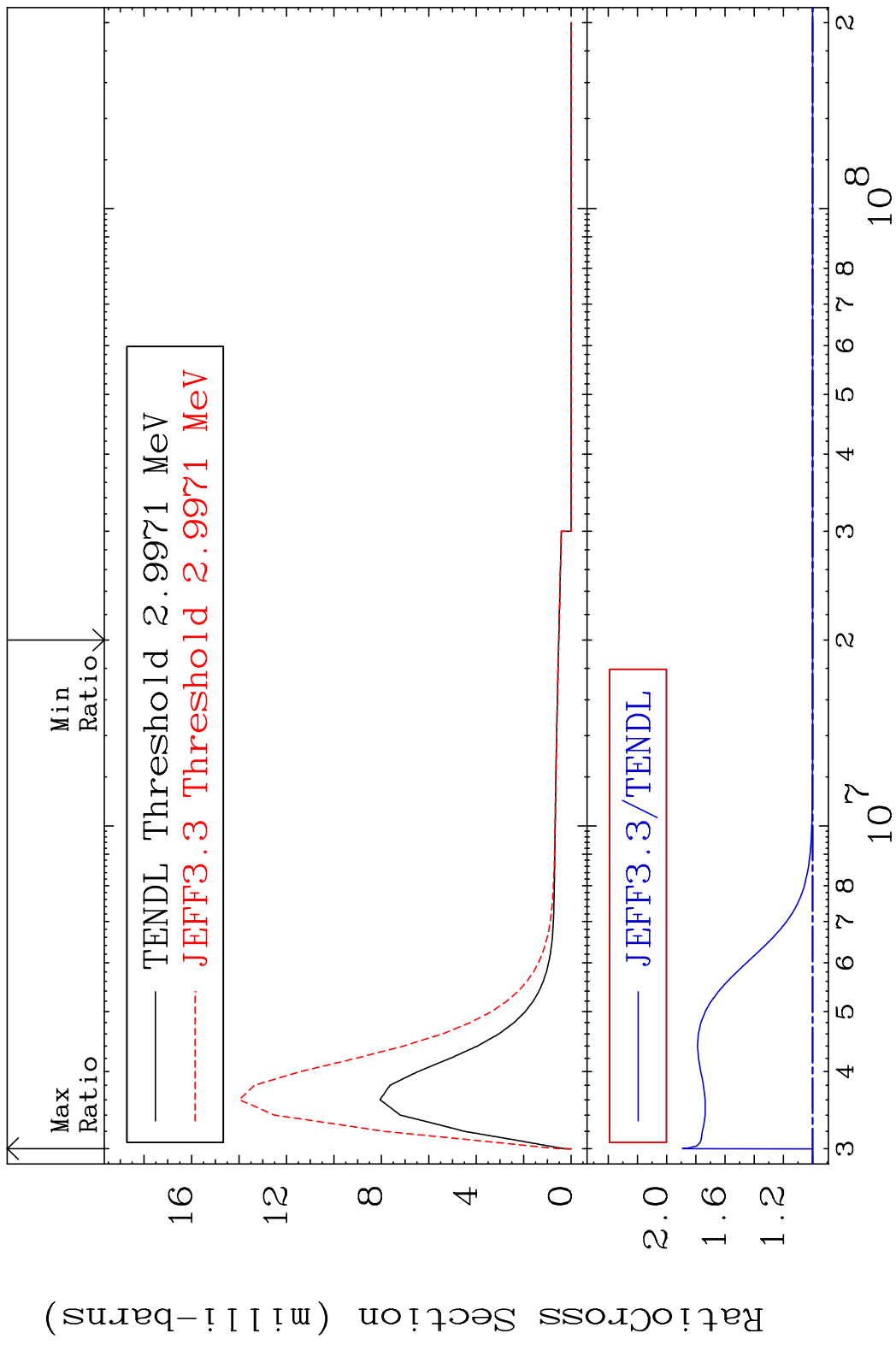
MAT 6025 MT= 71 (n, n') Level 60-Nd-142
 Cross Section -100.0 To 86.27 %



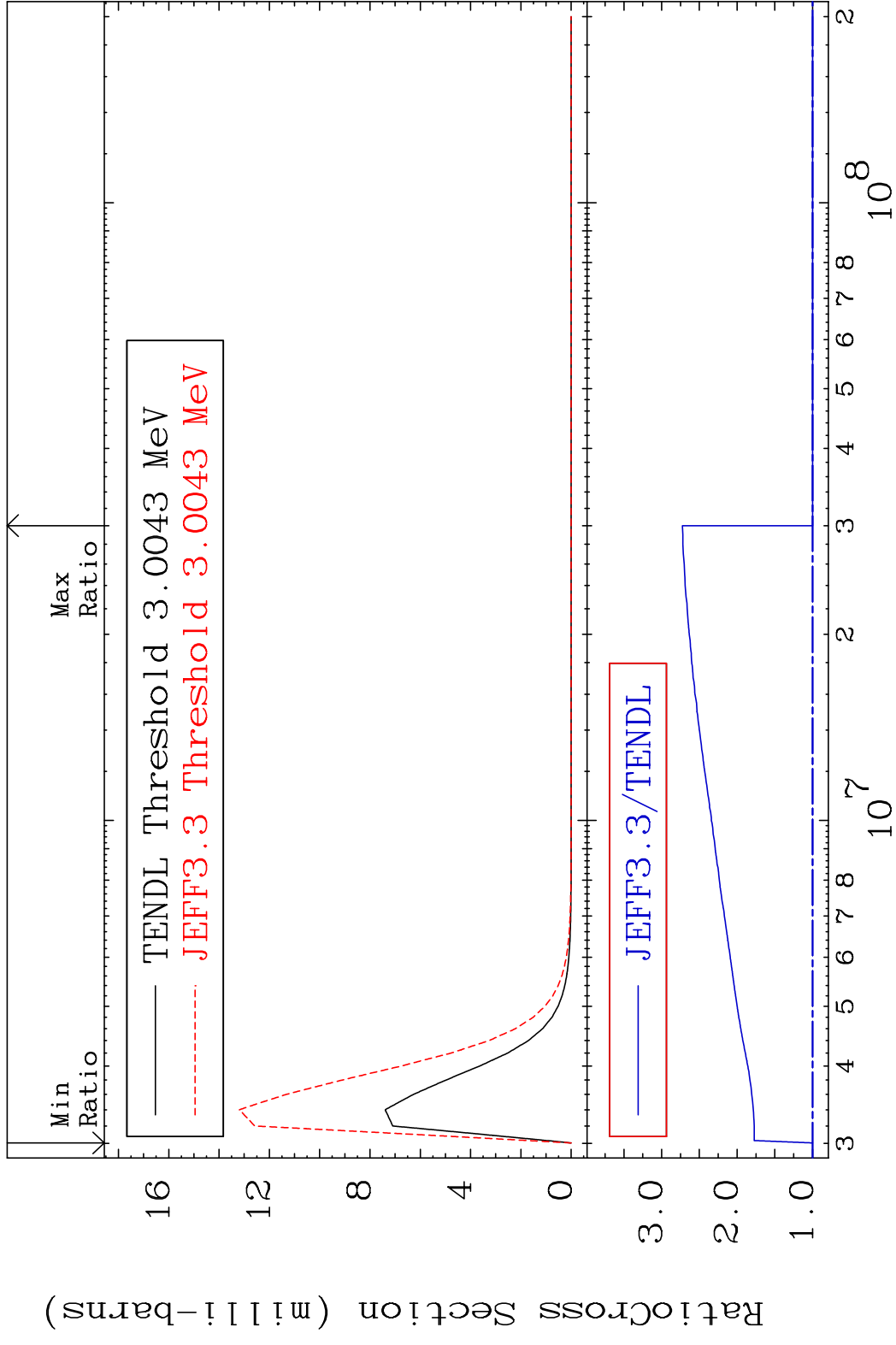
MAT 6025 MT= 72 (n, n') Level 60-Nd-142
 Cross Section -100.0 To 172.6 %



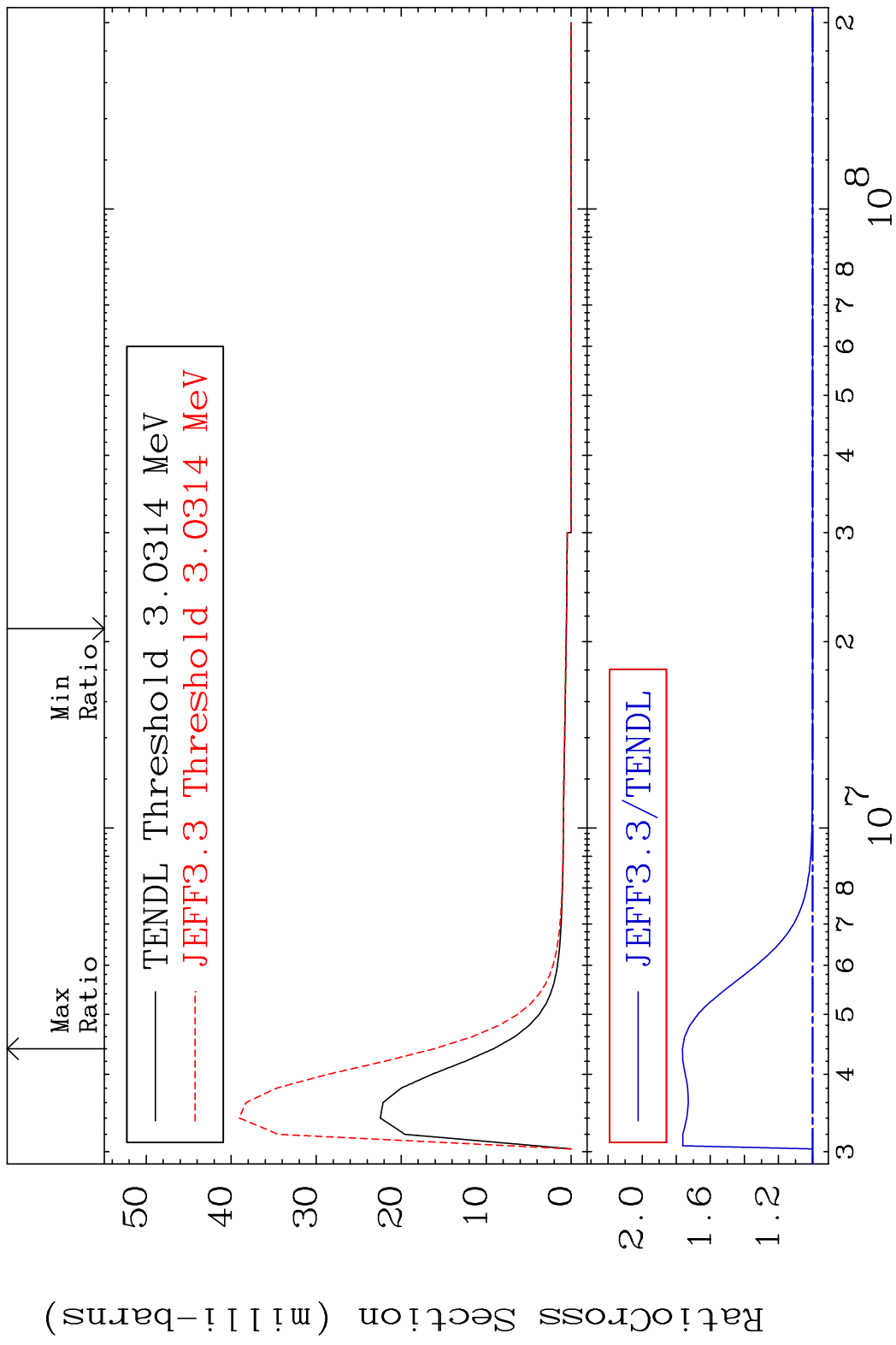
MAT 6025 MT= 73 (n, n') Level 60-Nd-142
 Cross Section 0.000 To 89.21 %



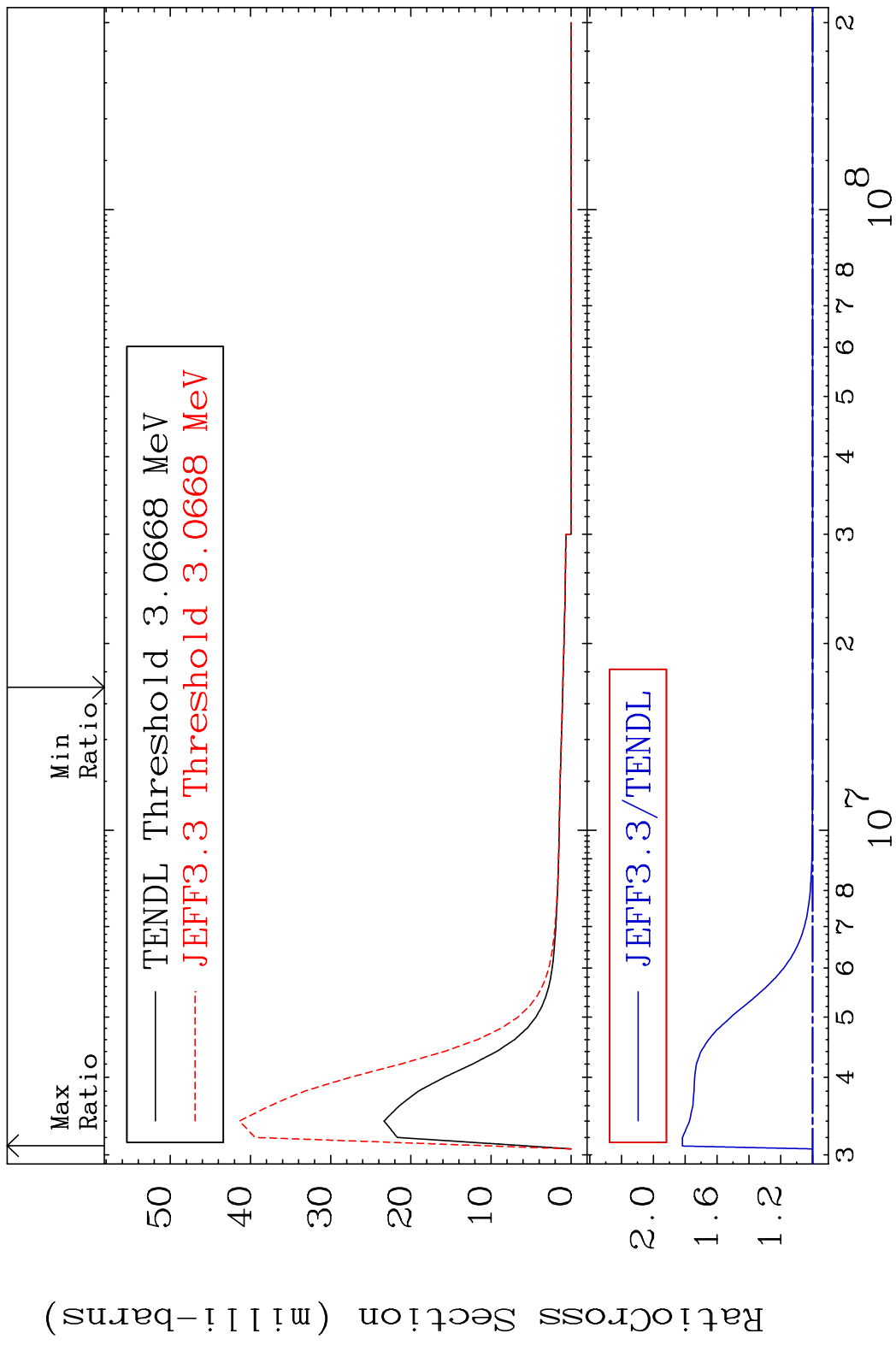
MAT 6025 MT= 74 (n, n') Level 60-Nd-142
 Cross Section 0.000 To 172.6 %



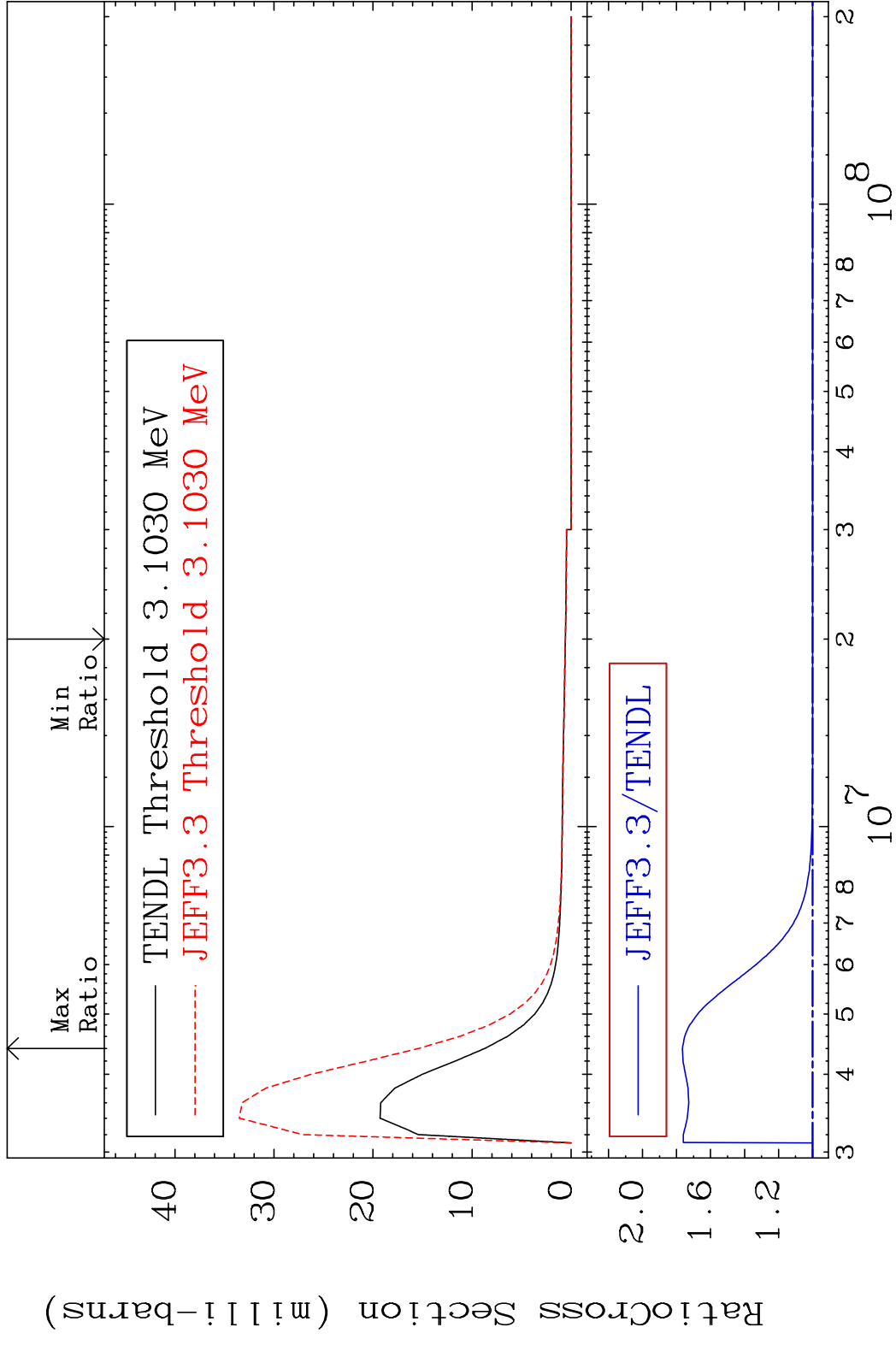
MAT 6025 MT= 75 (n,n') Level 60-Nd-142
 Cross Section 0.000 To 76.41 %



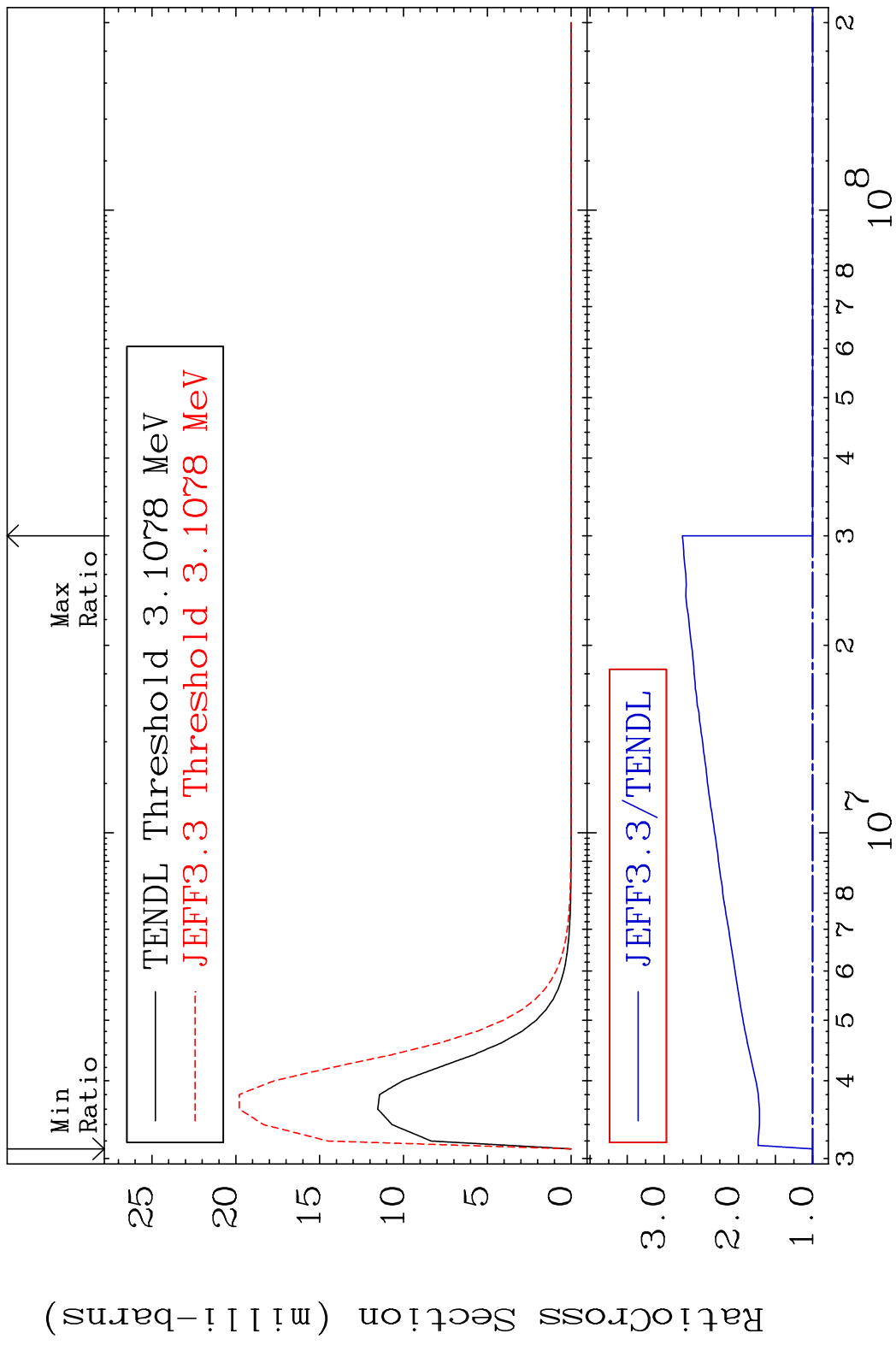
MAT 6025 MT= 76 (n,n') Level 60-Nd-142
 Cross Section 0.000 To 81.81 %



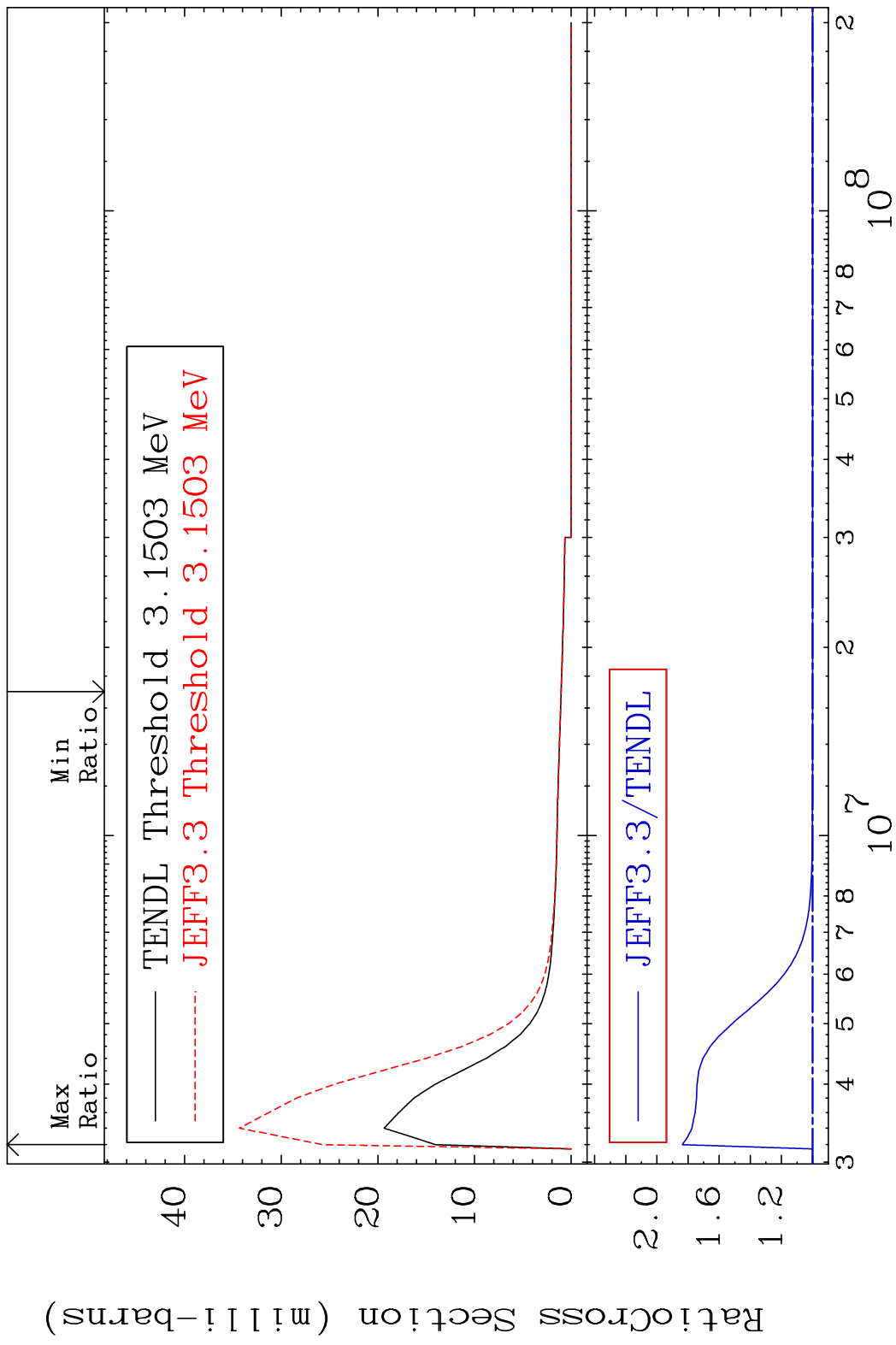
MAT 6025 MT= 77 (n, n') Level 60-Nd-142
 Cross Section 0.000 To 76.56 %



MAT 6025 MT= 78 (n, n') Level 60-Nd-142
 Cross Section 0.000 To 175.6 %



MAT 6025 MT= 79 (n, n') Level 60-Nd-142
 Cross Section 0.000 To 83.65 %

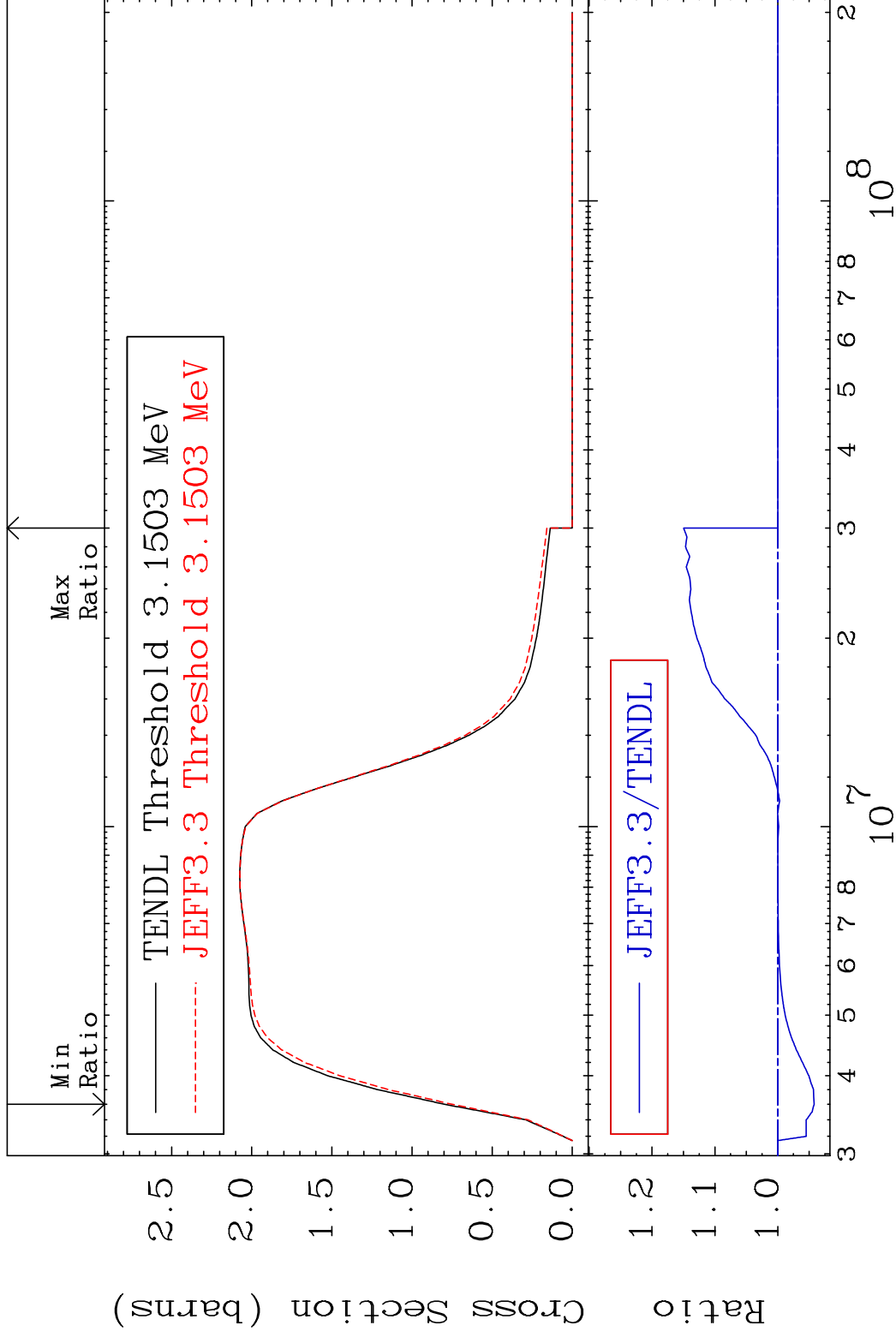


MAT 6025

(n,n') Continuum

60-Nd-142

Cross Section -5.785 To 14.97 %



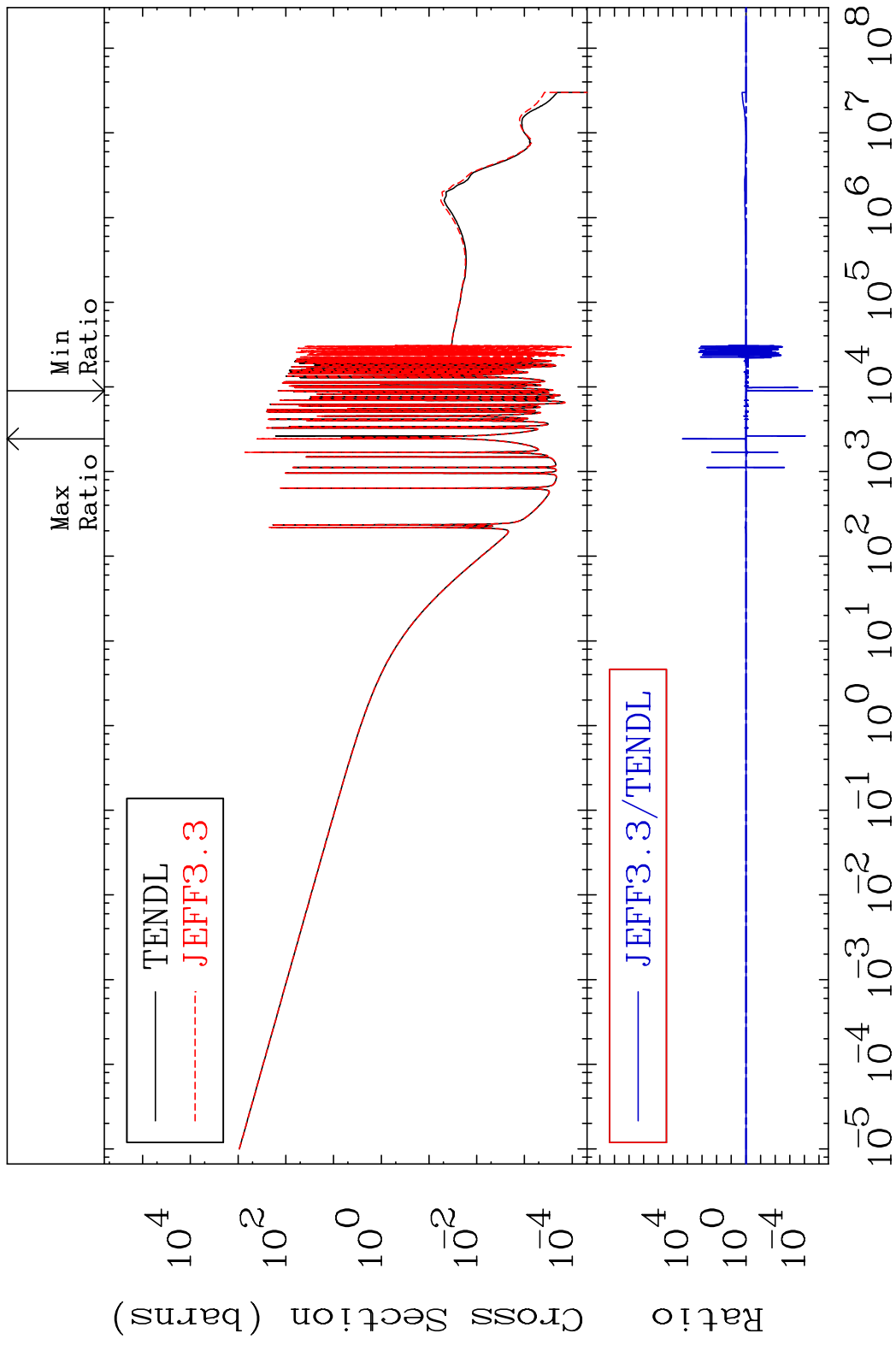
49

Incident Energy (eV)

60-Nd-142

MAT 6025

(n, γ)
Cross Section -100.0 To 9999. %
60-Nd-142

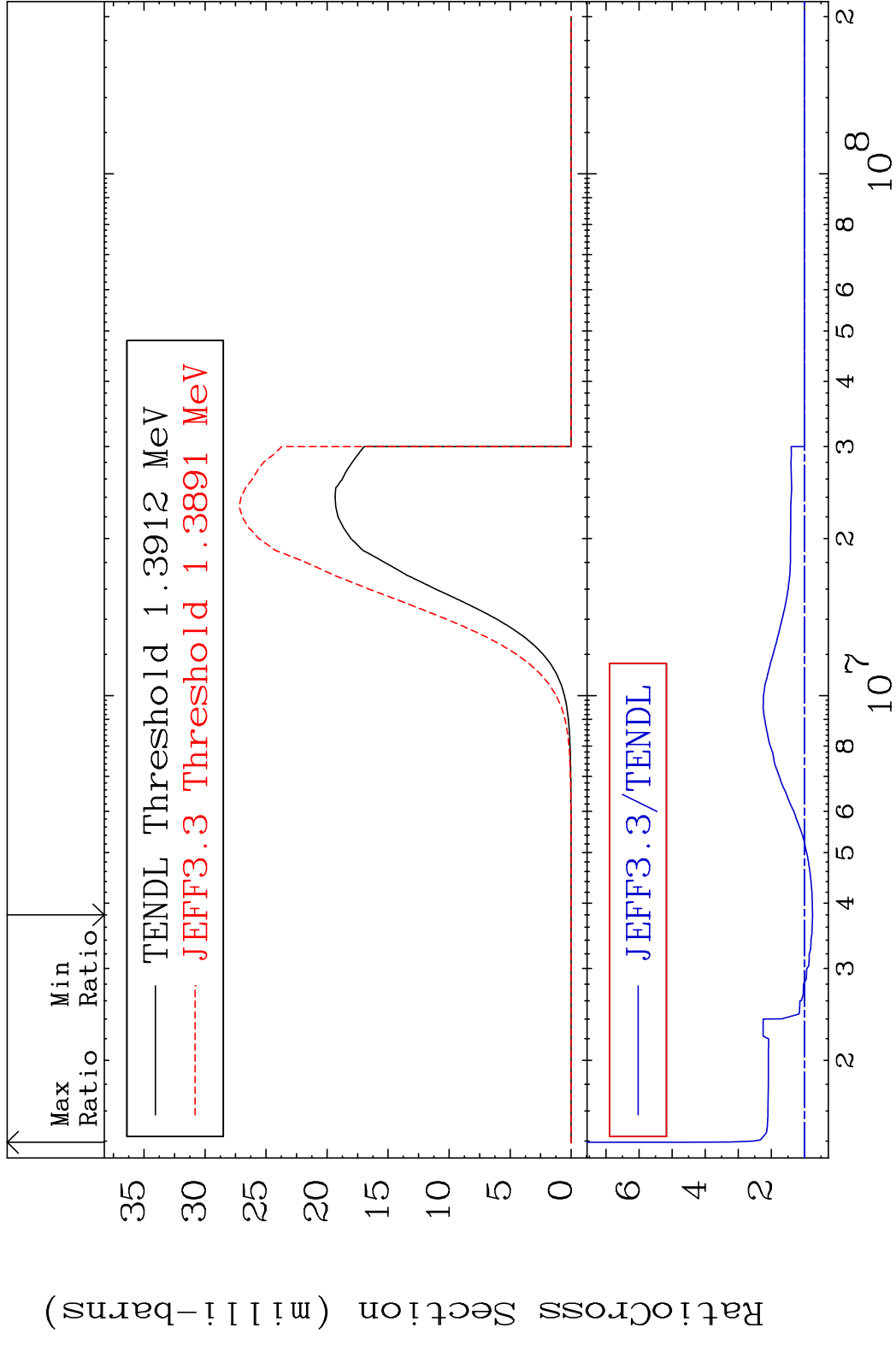


50

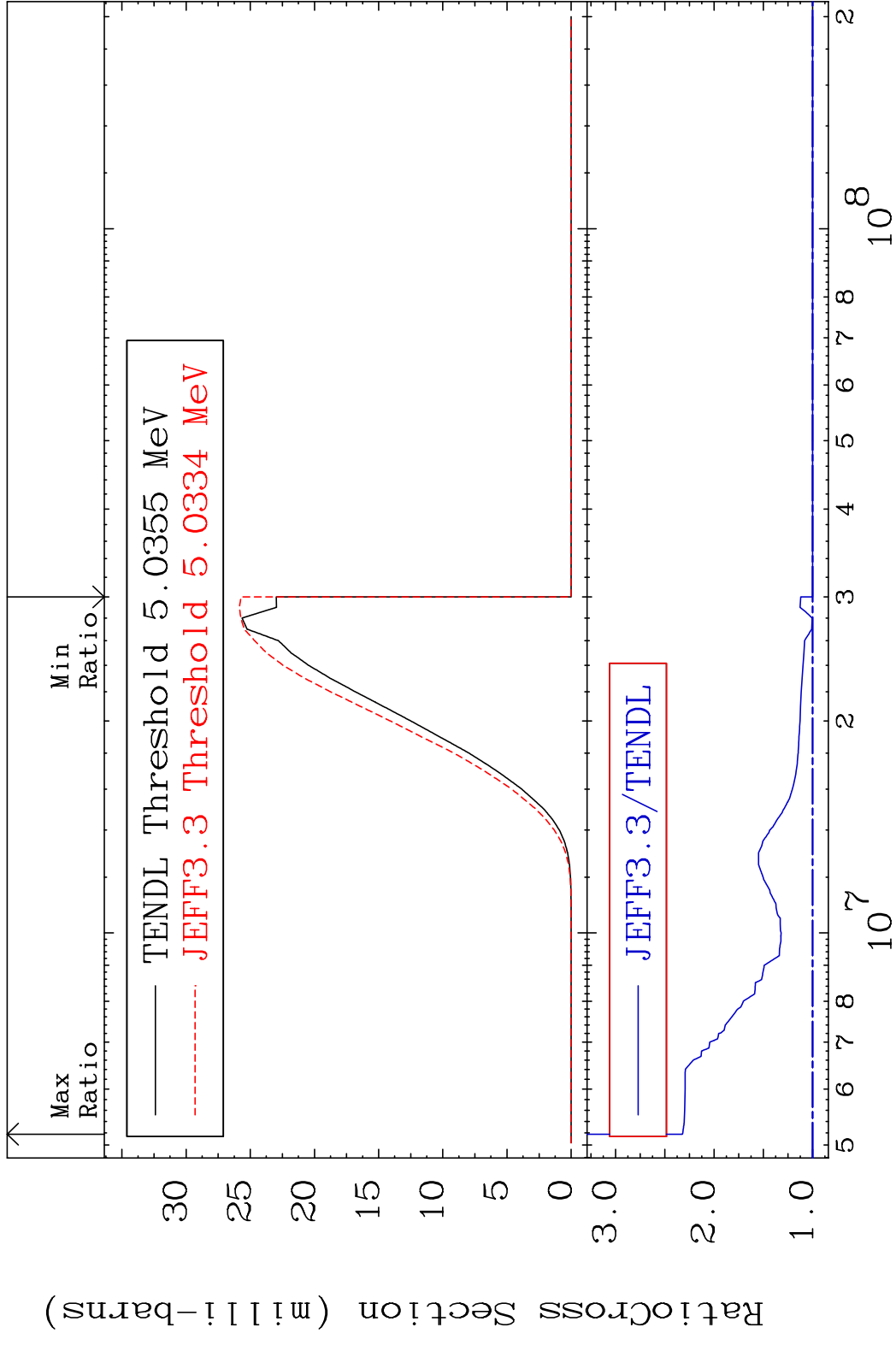
Incident Energy (eV)

60-Nd-142

MAT 6025 (n,p) 60-Nd-142
 Cross Section -24.65 To 369.0 %



MAT 6025 (n,d) 60-Nd-142
 Cross Section 0.000 To 132.2 %

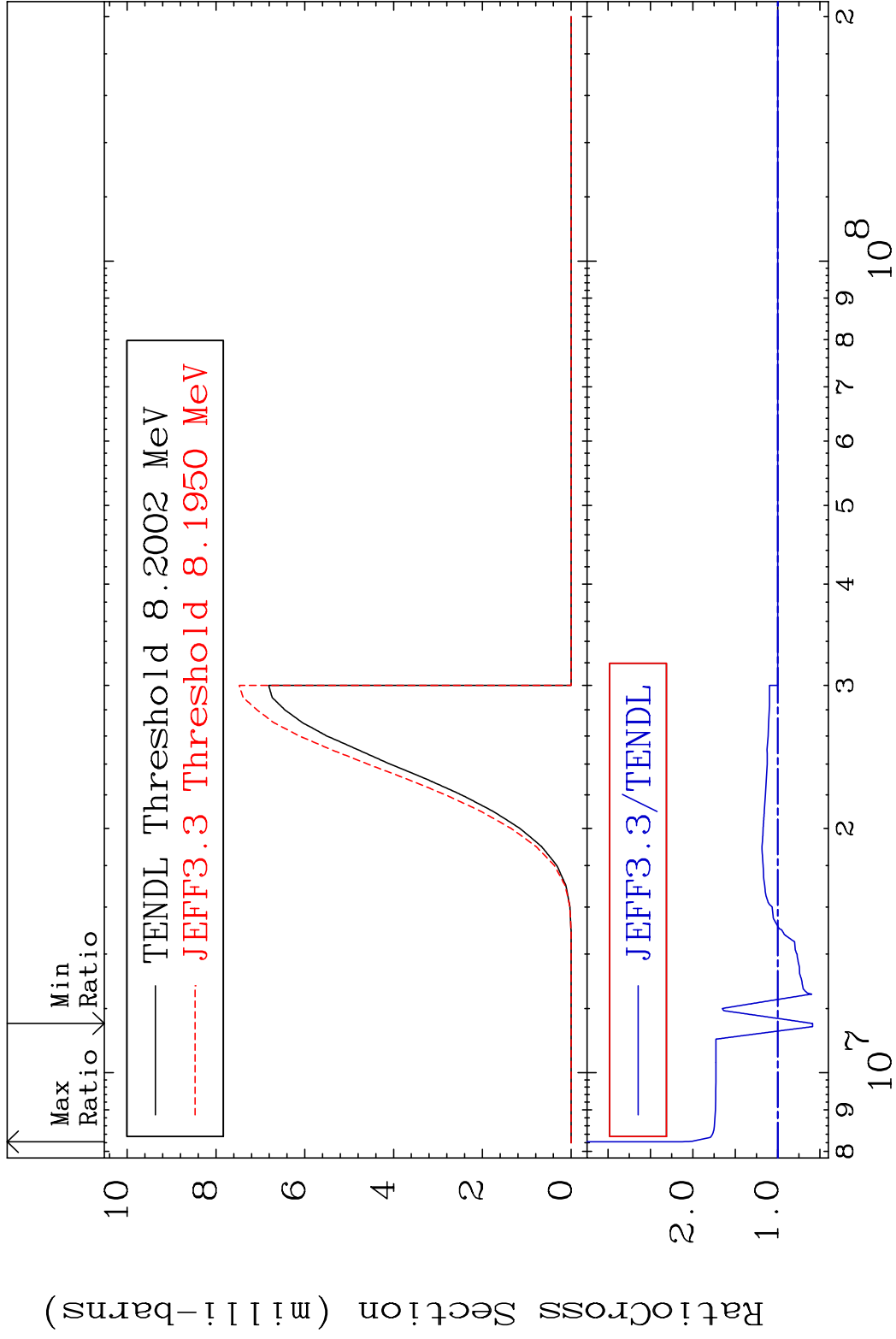


MAT 6025

(n, t)

60-Nd-142

Cross Section -41.20 To 112.4 %



53

Incident Energy (eV)

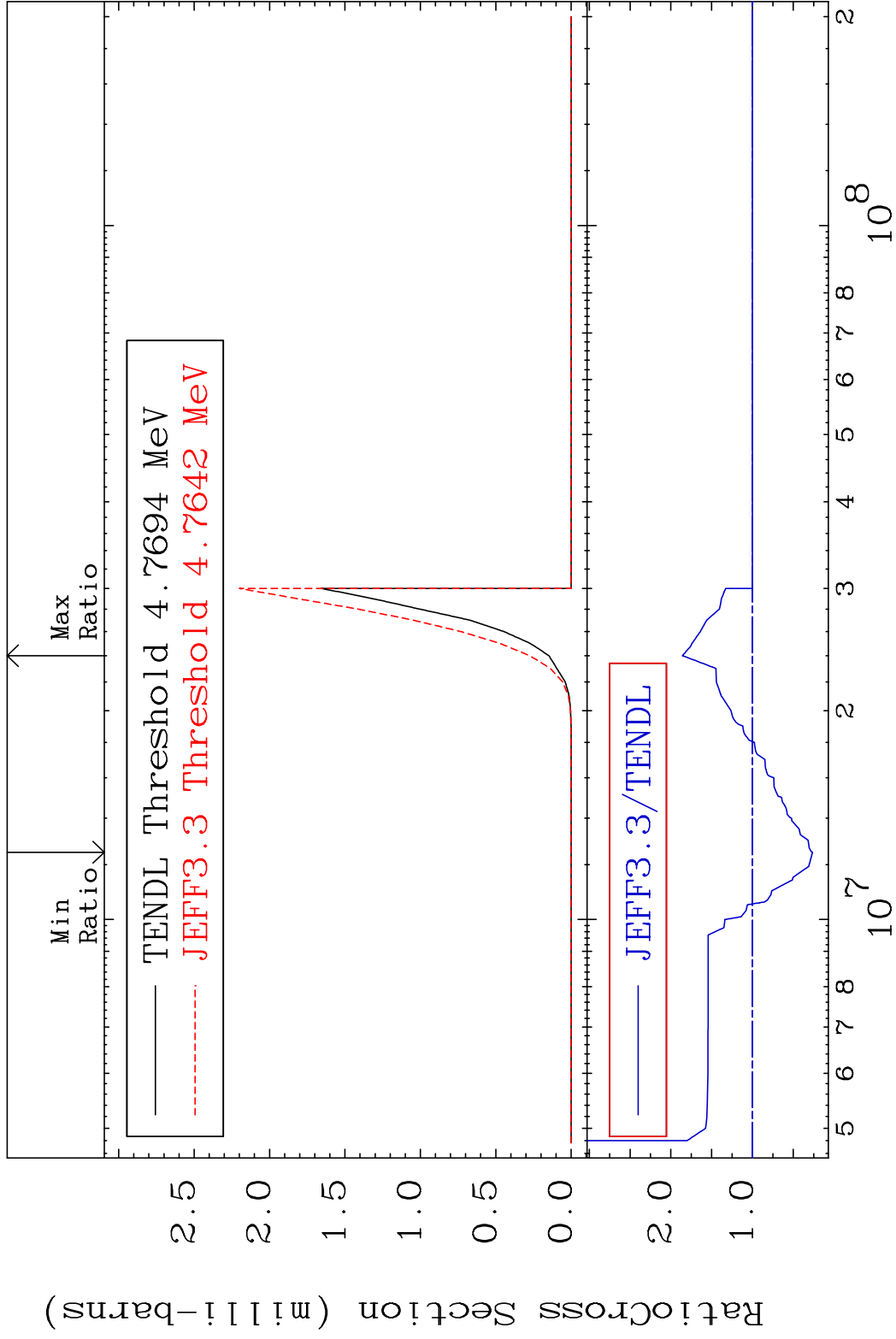
60-Nd-142

MAT 6025

(n, He-3)

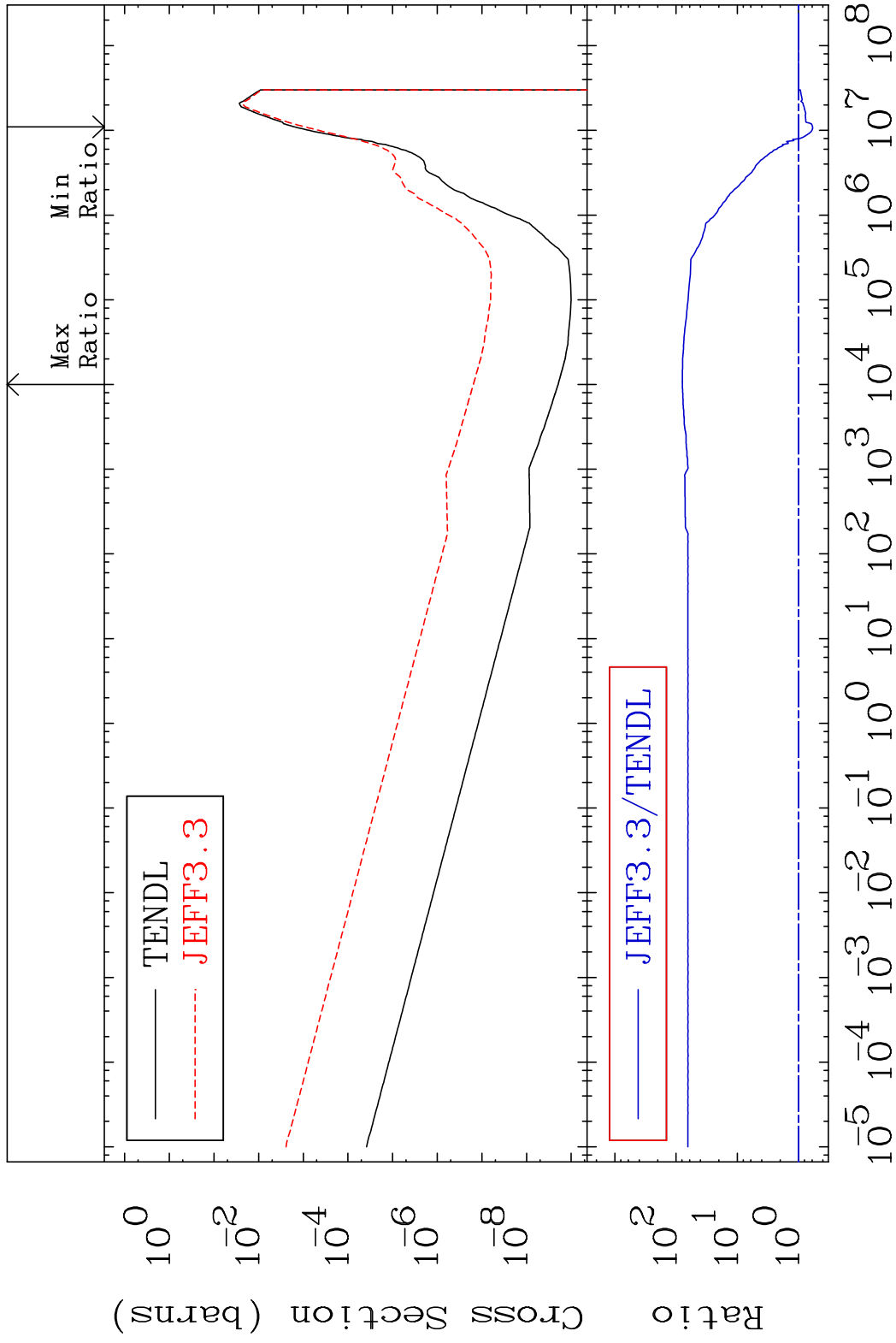
60-Nd-142

Cross Section -73.61 To 85.93 %



MAT 6025

(n, α)
Cross Section -40.89 To 7802. %
60-Nd-142



55

Incident Energy (eV)

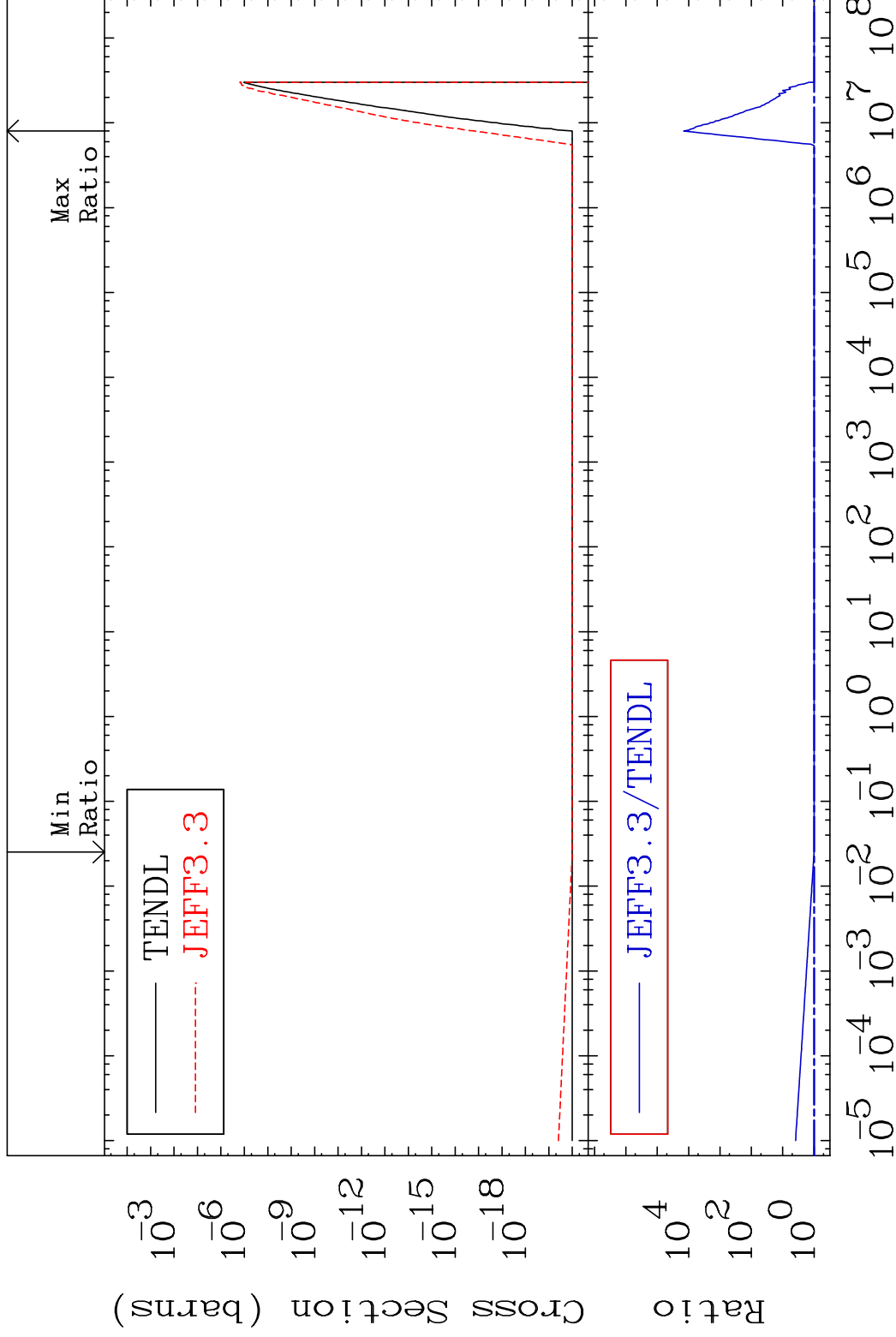
60-Nd-142

MAT 6025

(n, 2α)

60-Nd-142

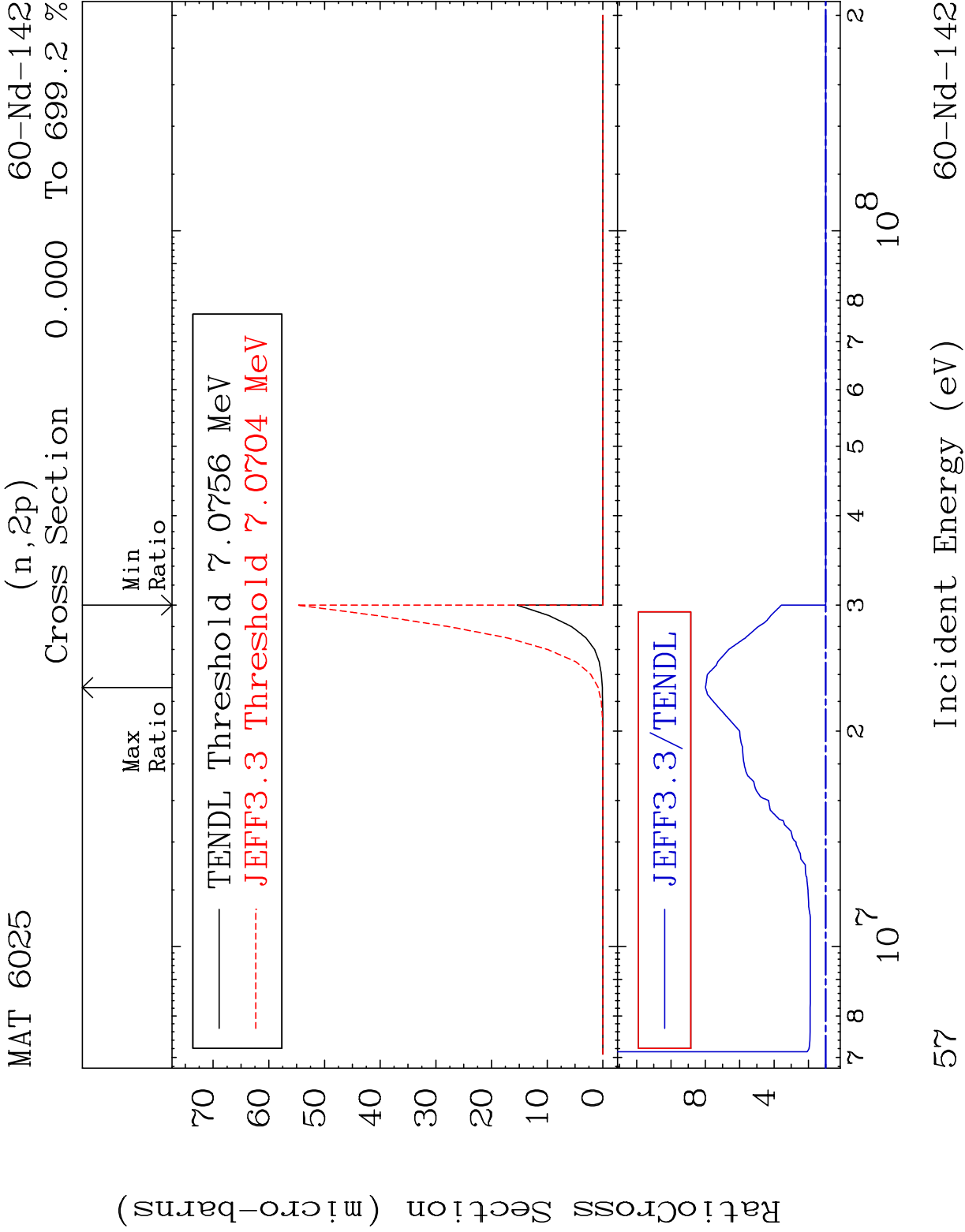
Cross Section 0.000 To 9999. %



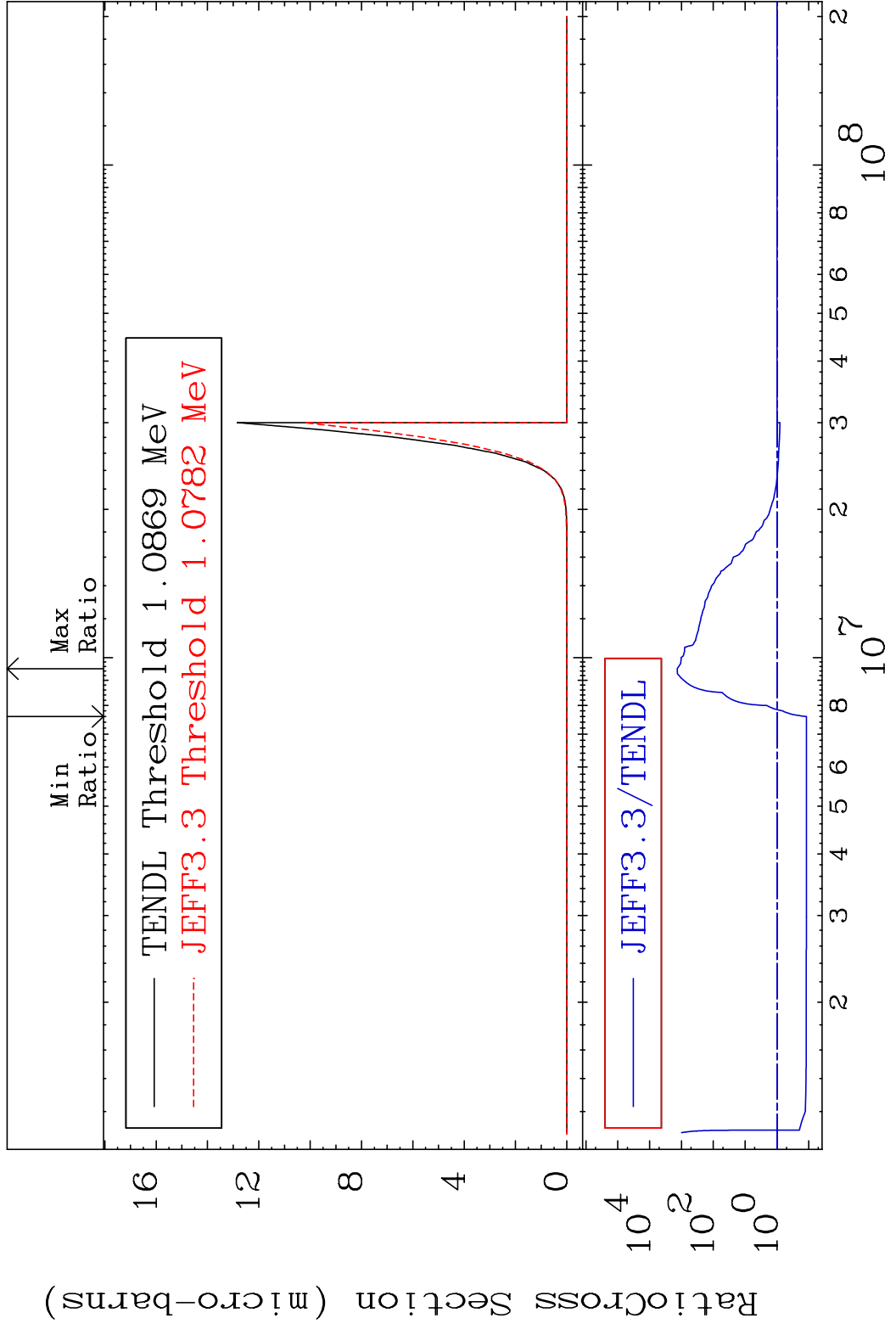
56

Incident Energy (eV)

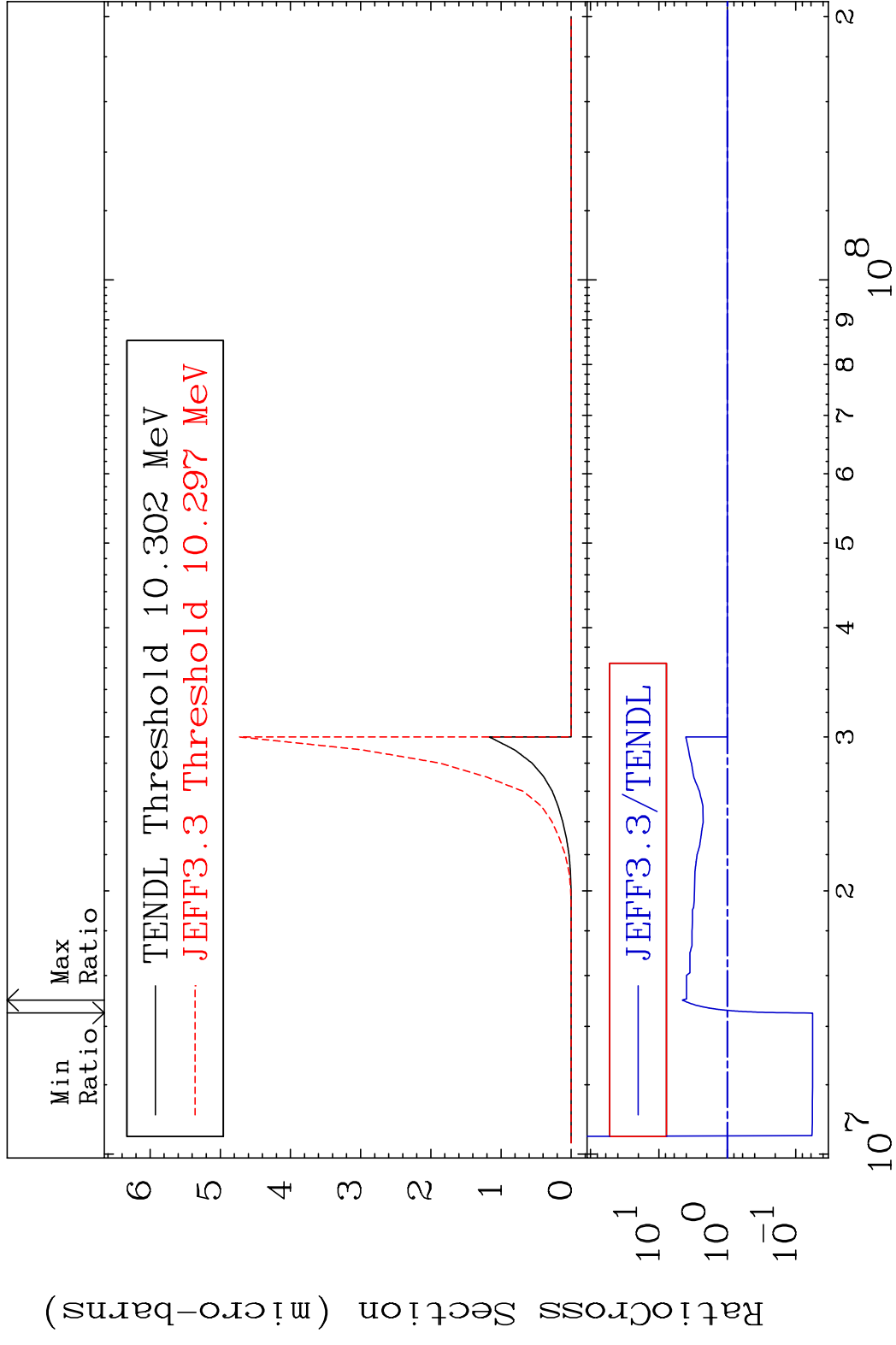
60-Nd-142



MAT 6025 (n,p) α 60-Nd-142
 Cross Section -88.15 To 9999. %

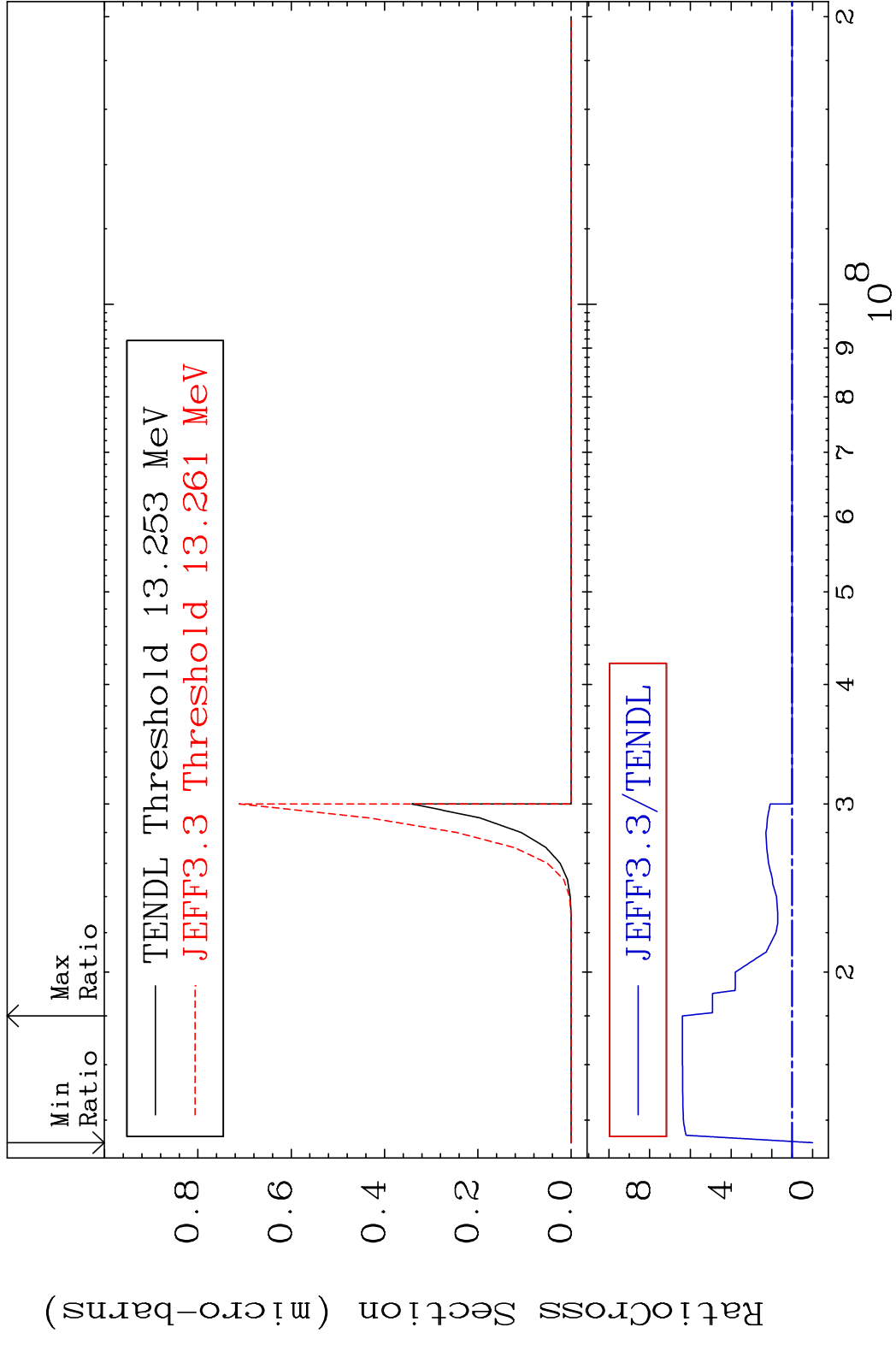


MAT 6025 (n,p) d 60-Nd-142
 Cross Section -94.31 To 355.3 %



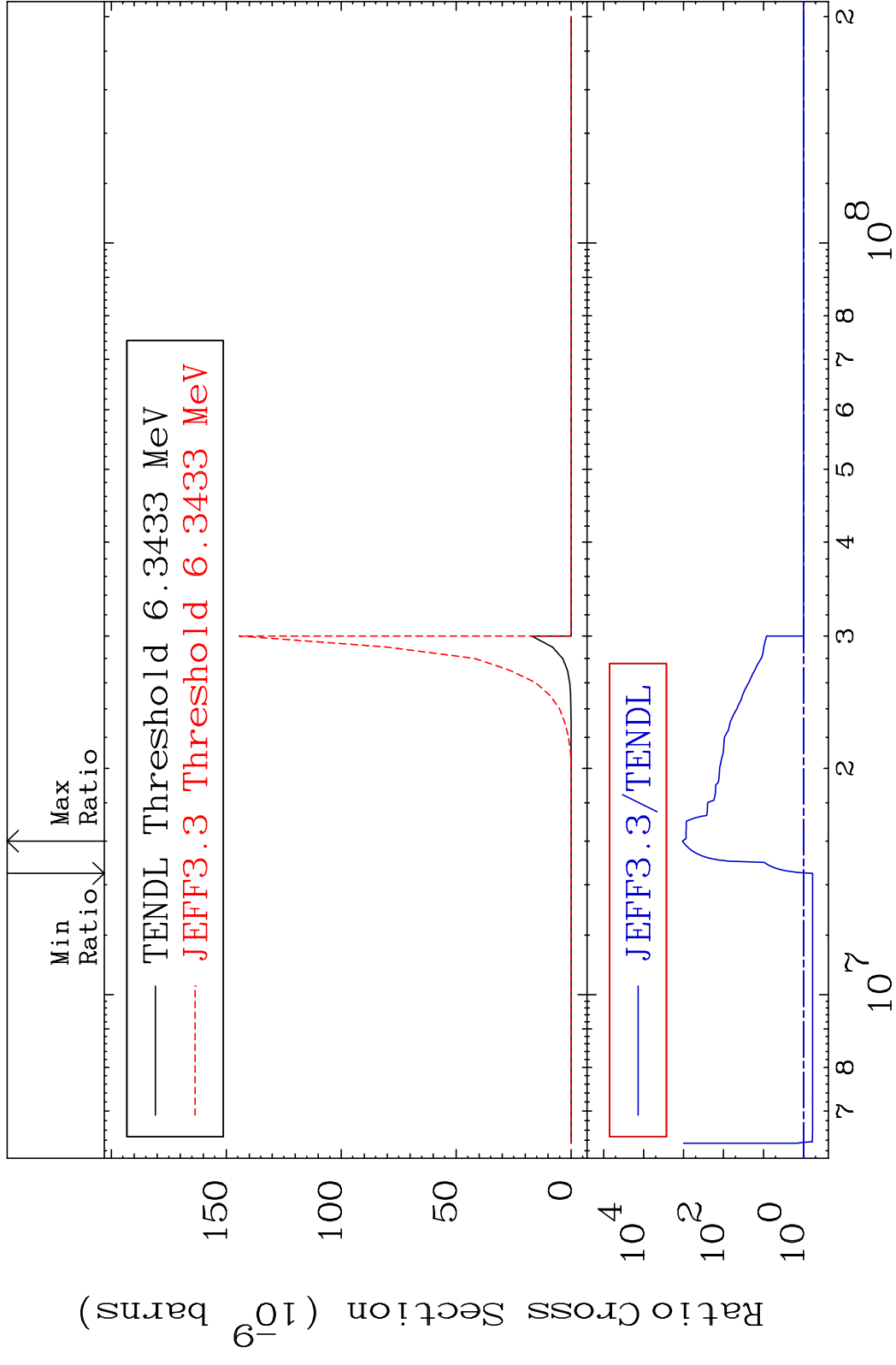
59 Incident Energy (eV) 60-Nd-142

MAT 6025 (n,p) t 60-Nd-142
 Cross Section -100.0 To 539.4 %

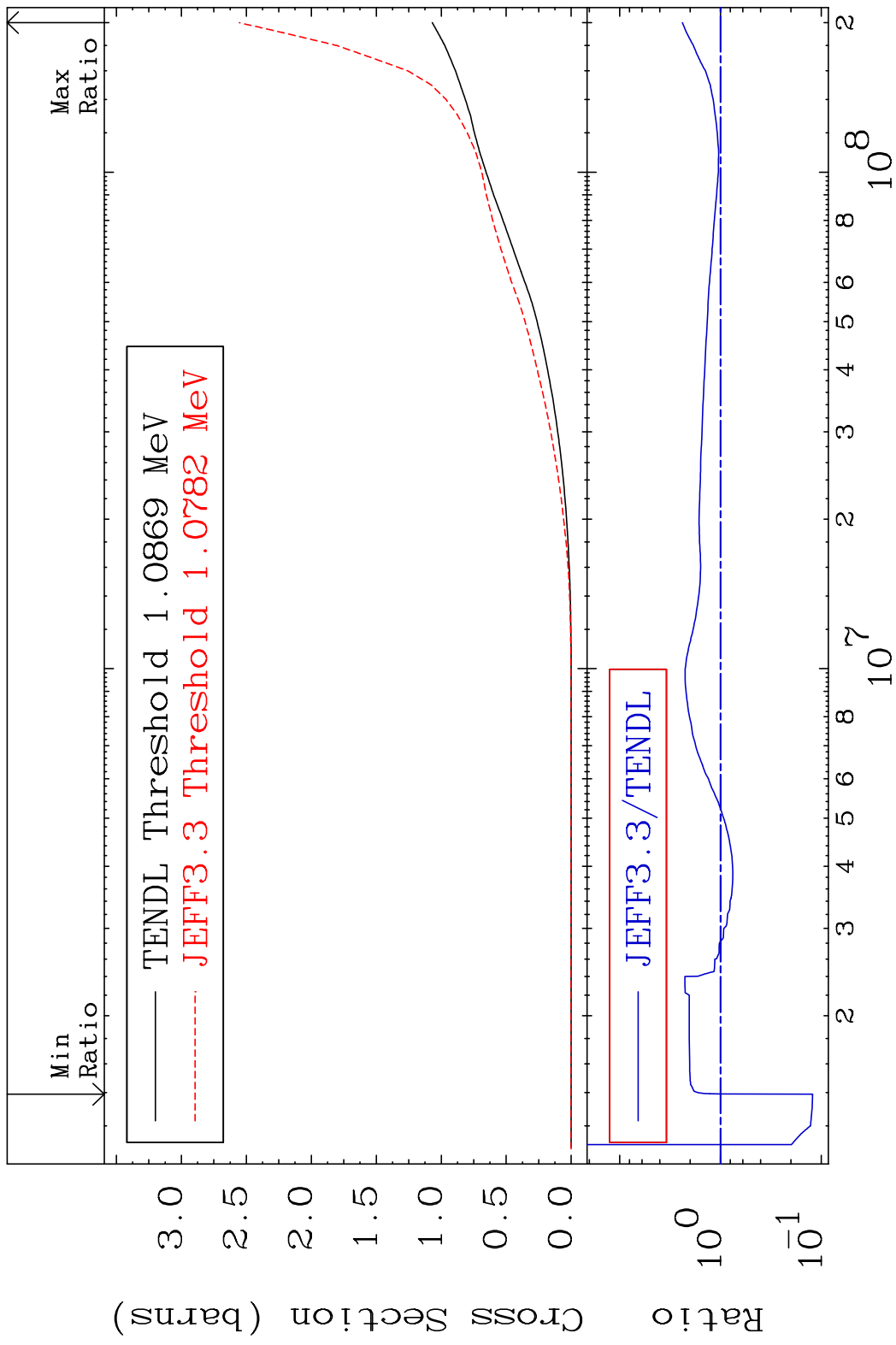


60 60-Nd-142

MAT 6025 (n,d) α 60-Nd-142
 Cross Section -40.86 To 9999. %



MAT 6025 Hydrogen Production 60-Nd-142
 Cross Section -87.82 To 139.0 %

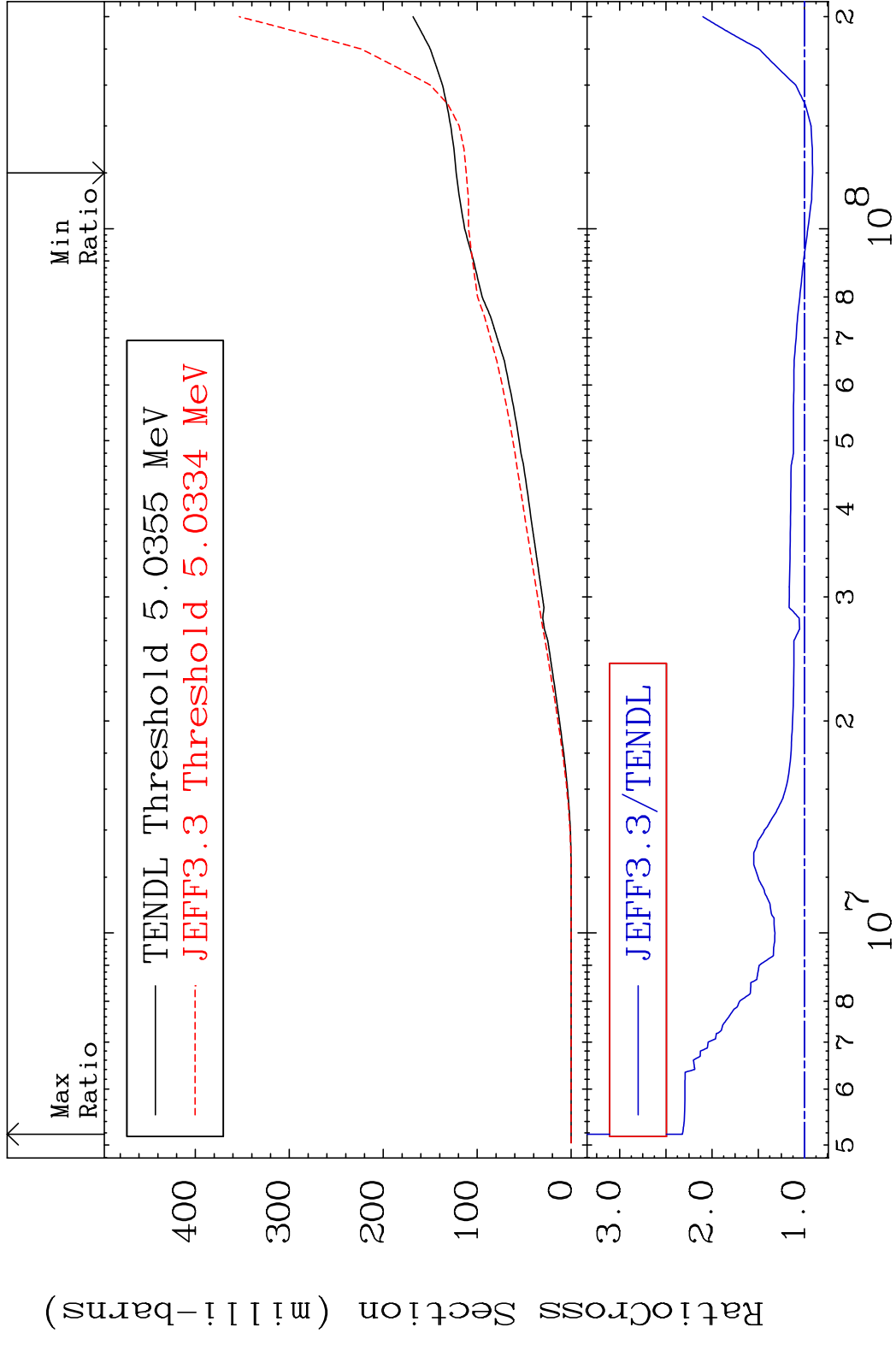


MAT 6025

Deuterium Production

60-Nd-142

Cross Section -8.786 To 132.2 %



63

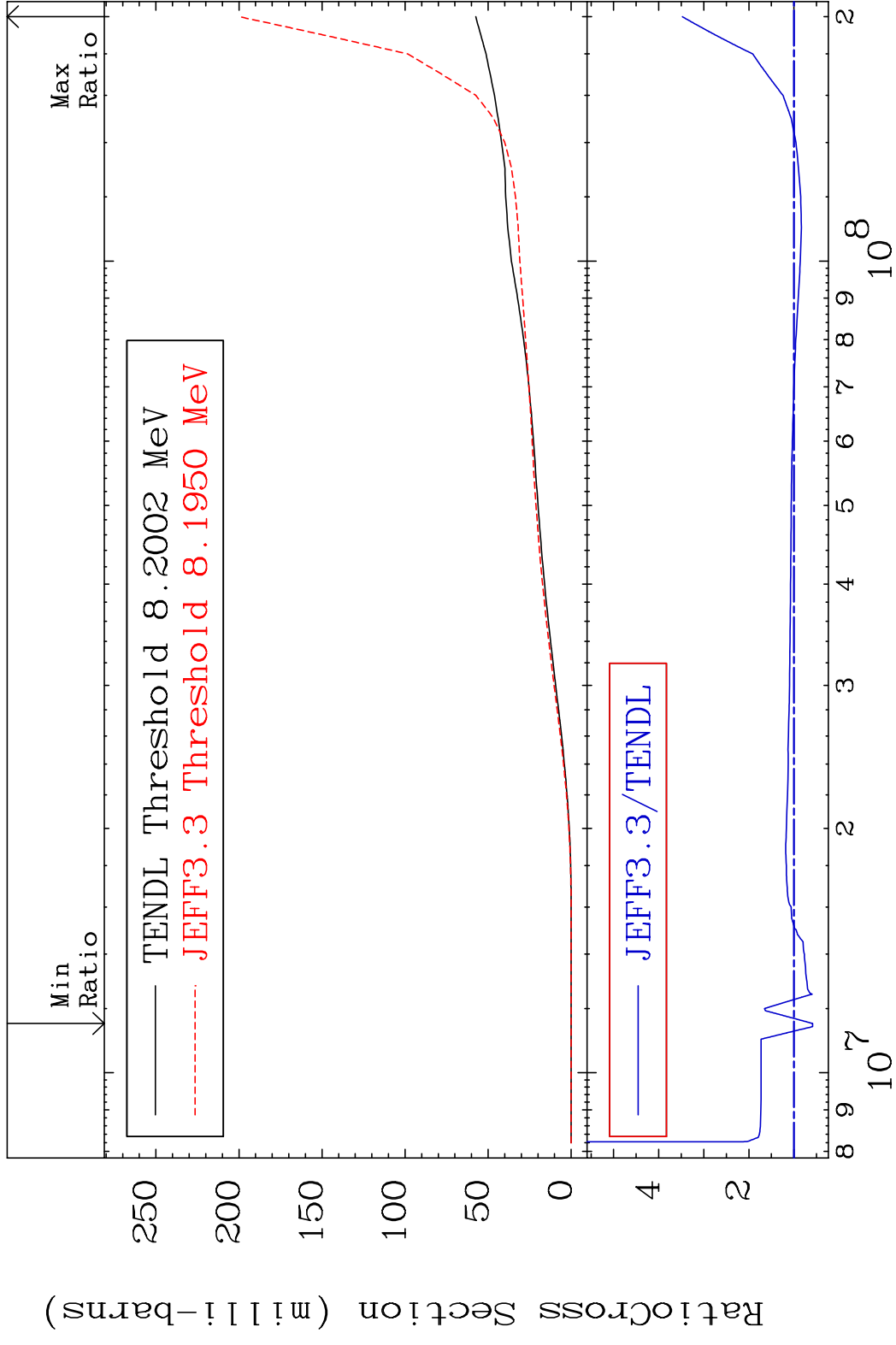
Incident Energy (eV)

60-Nd-142

MAT 6025

Tritium Production
Cross Section -41.20 To 247.6 %

60-Nd-142



64

Incident Energy (eV)

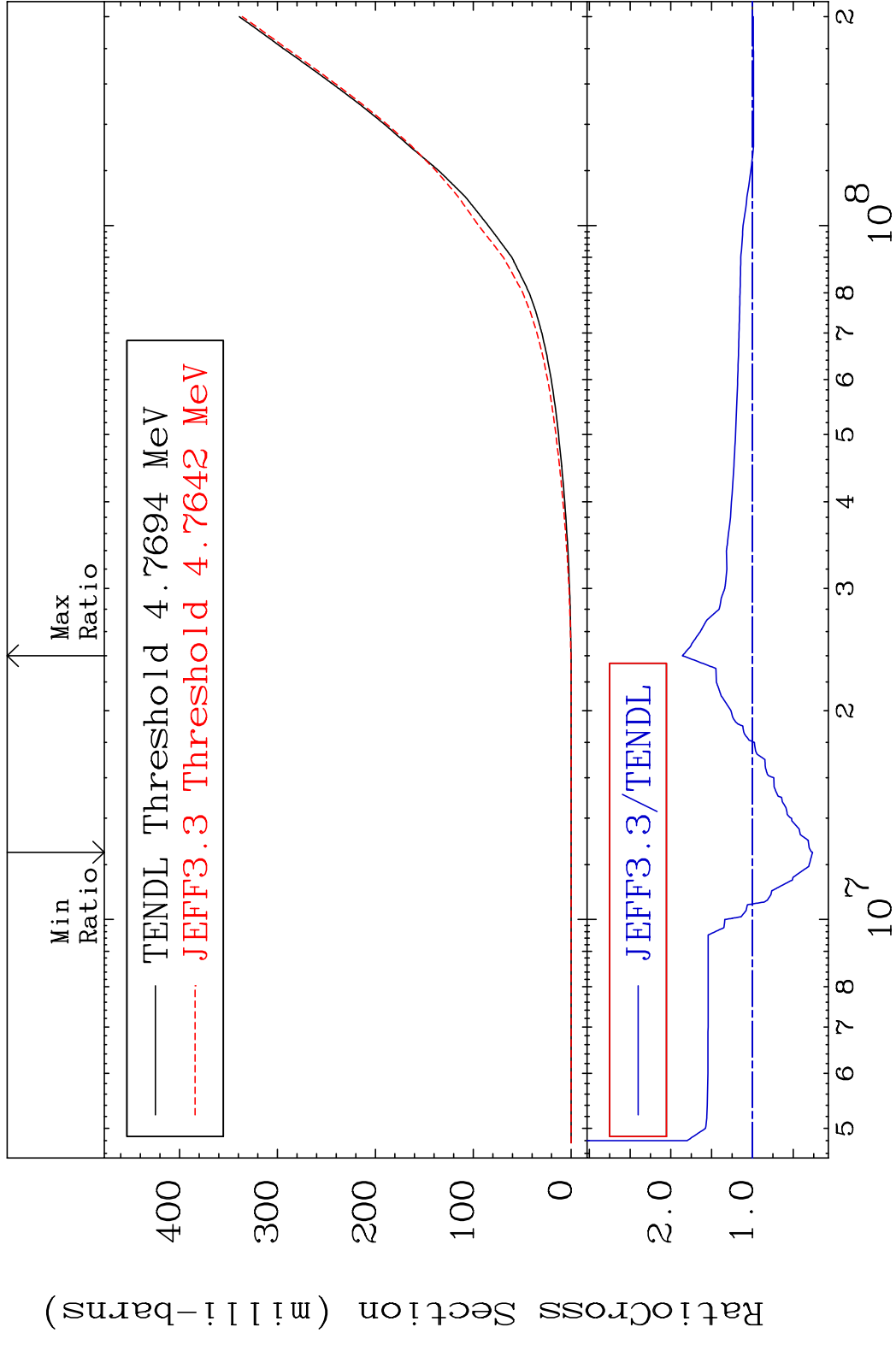
60-Nd-142

MAT 6025

He-3 Production

60-Nd-142

Cross Section -73.61 To 85.93 %



65

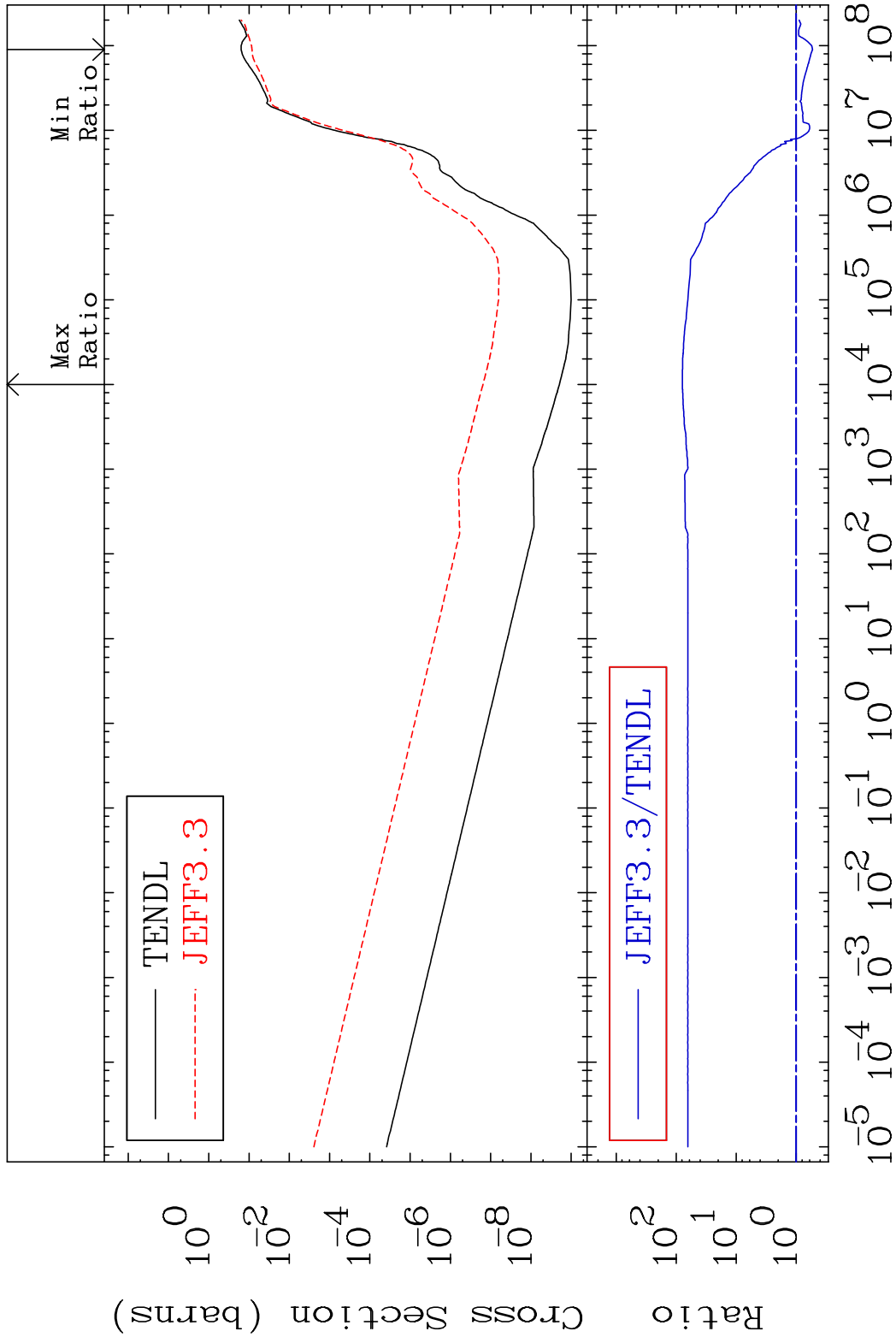
60-Nd-142

MAT 6025

He-4 Production

60-Nd-142

Cross Section -46.48 To 7802. %

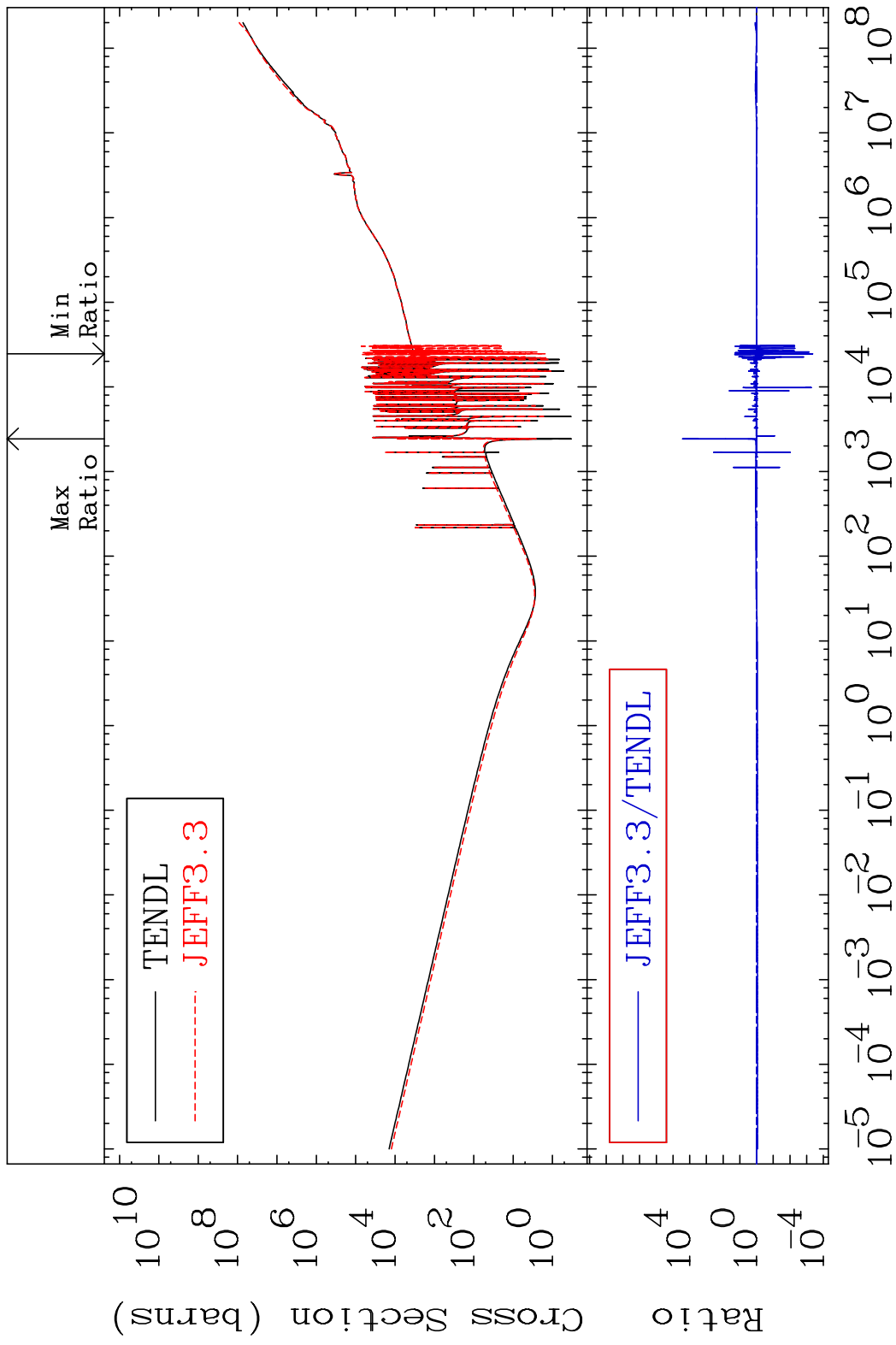


66

Incident Energy (eV)

60-Nd-142

MAT 6025 Kerma total (eV-barns) 60-Nd-142
 Cross Section -99.96 To 9999. %

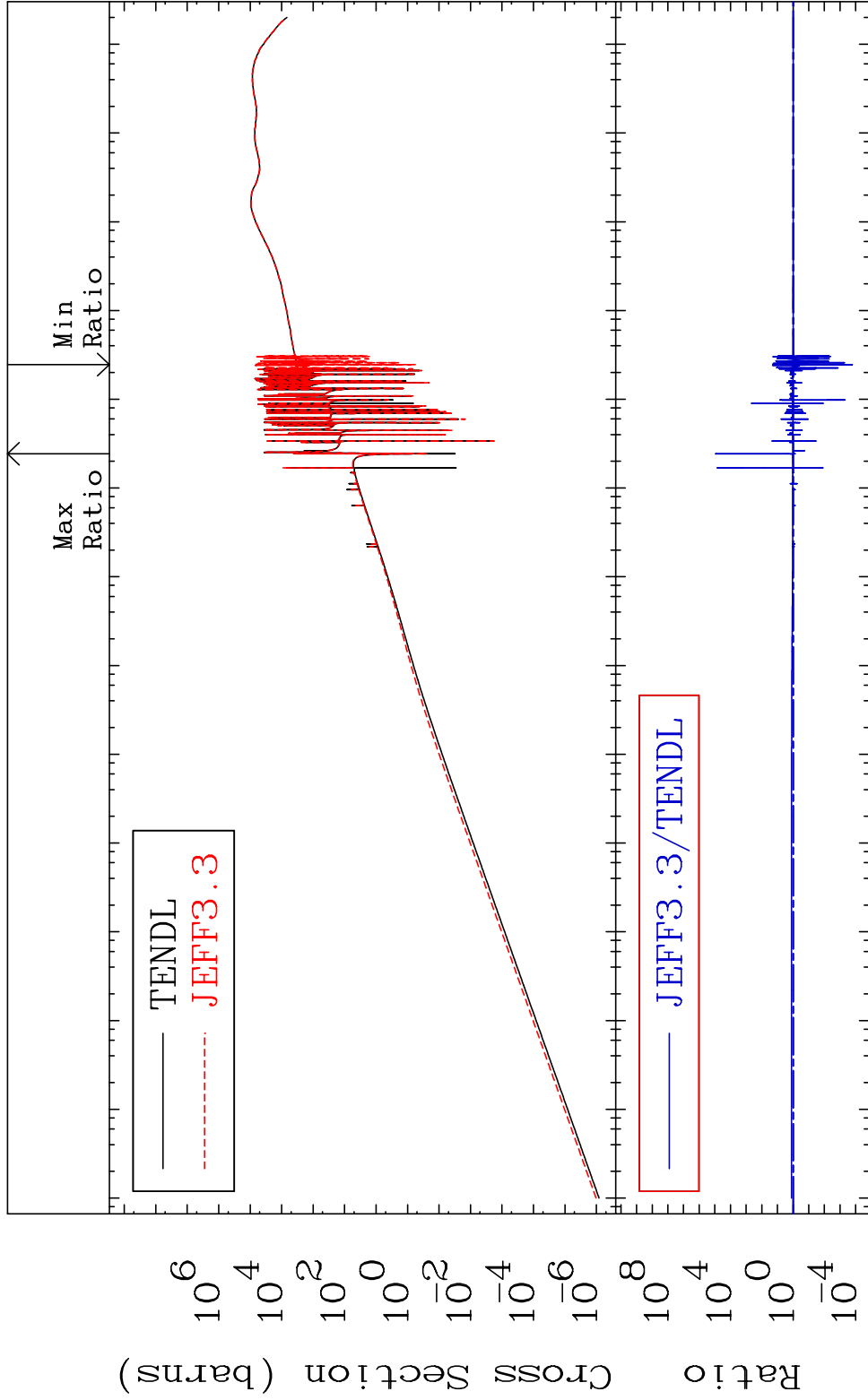


67 Incident Energy (eV) 60-Nd-142

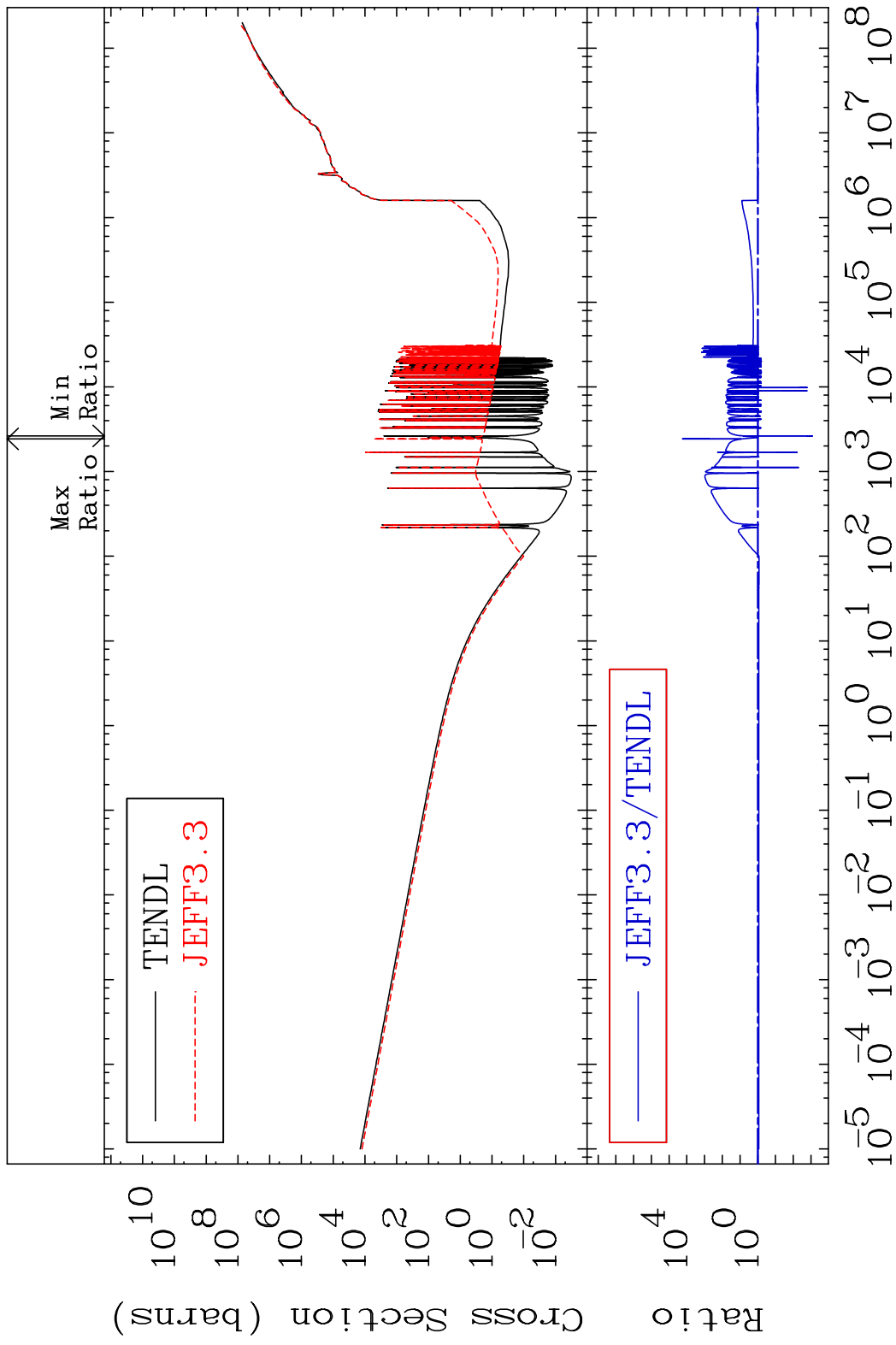
MAT 6025

Kerma elastic
Cross Section

60-Nd-142
-99.98 To 9999. %

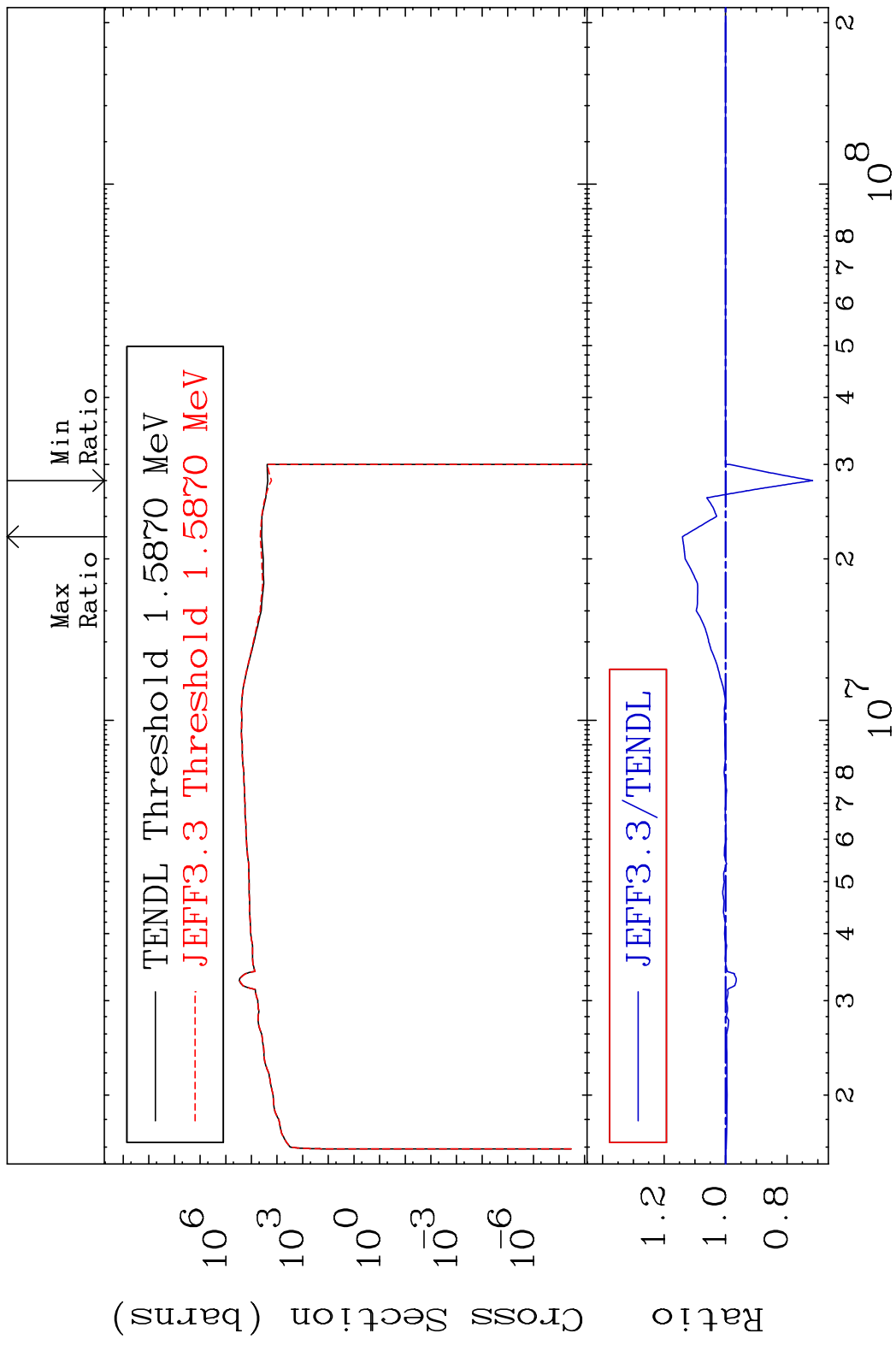


MAT 6025 Kerma non-elastic (all but mt2) 60-Nd-142
 Cross Section -99.92 To 9999. %



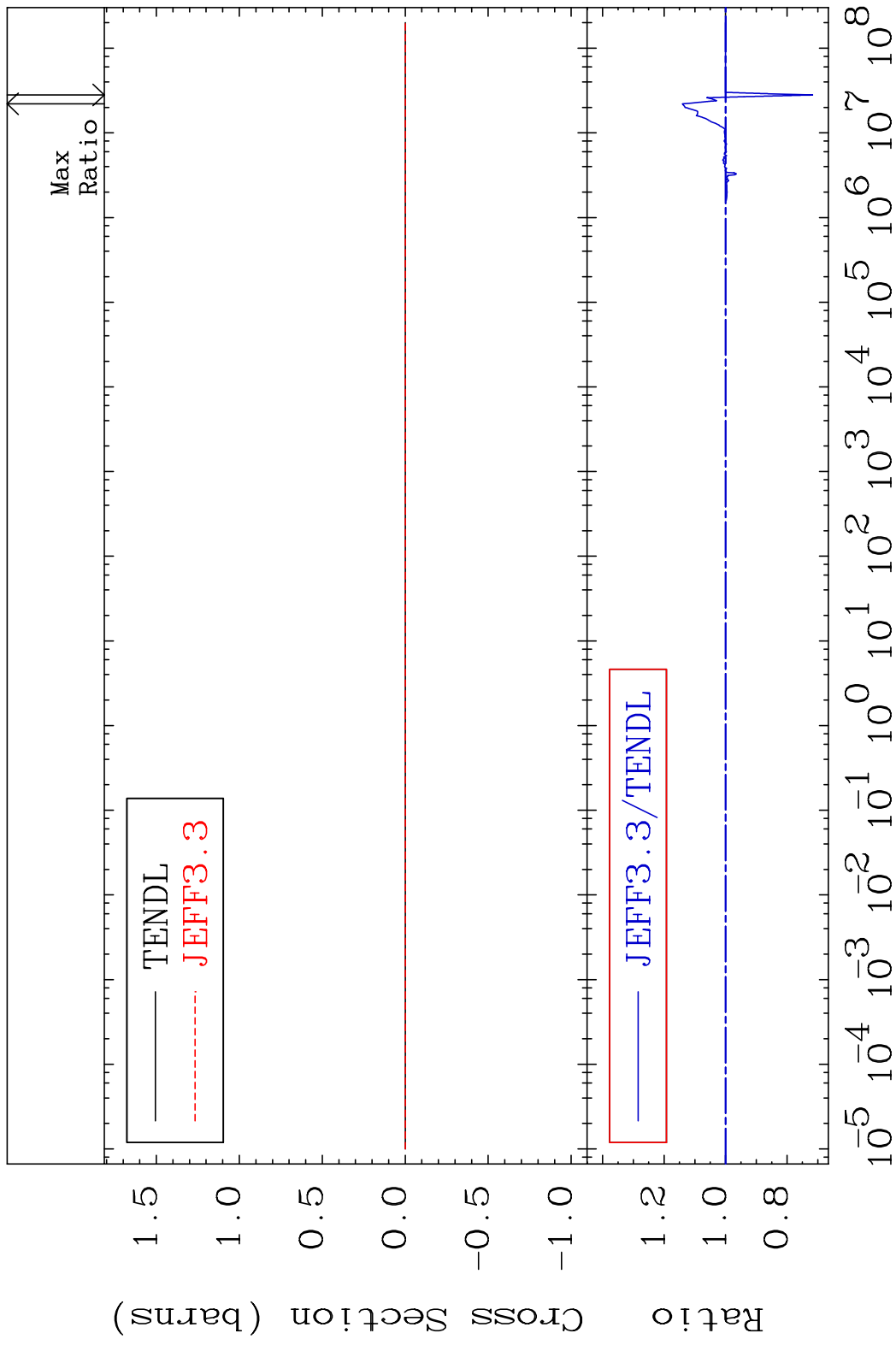
69 Incident Energy (eV) 60-Nd-142

MAT 6025 Kerma inelastic (mt51-91) 60-Nd-142
 Cross Section -28.30 To 14.06 %



70 Incident Energy (eV) 60-Nd-142

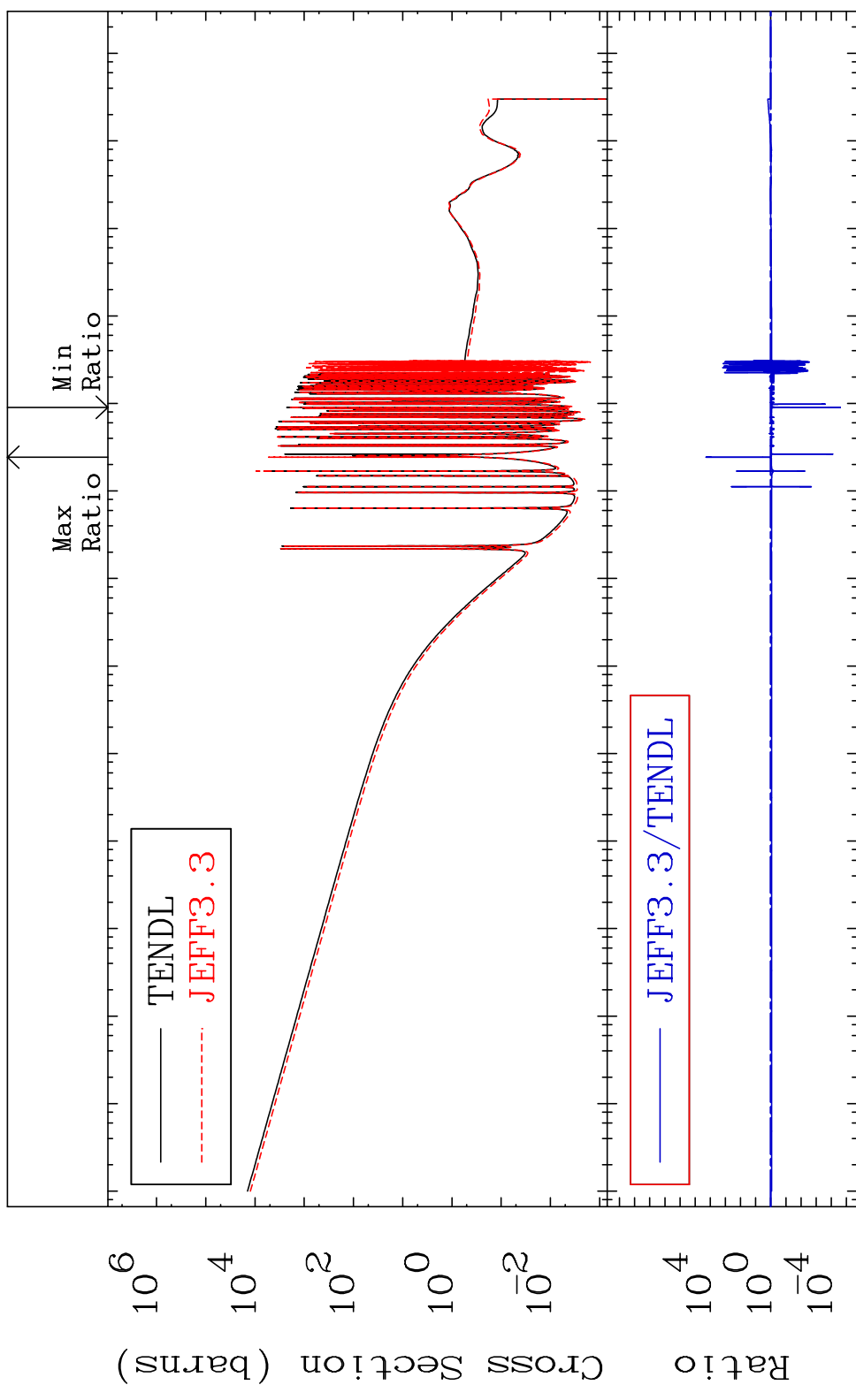
MAT 6025 Kerma fission (mt18 or mt19-20-21-38) $^{60}\text{Nd-142}$
 Cross Section -28.30 To 14.06 %



MAT 6025

Kerma capture (mt102) 60-Nd-142

Cross Section -100.0 To 9999. %



10^6

10^4

10^2

10^0

10^{-2}

10^4

10^0

10^{-4}

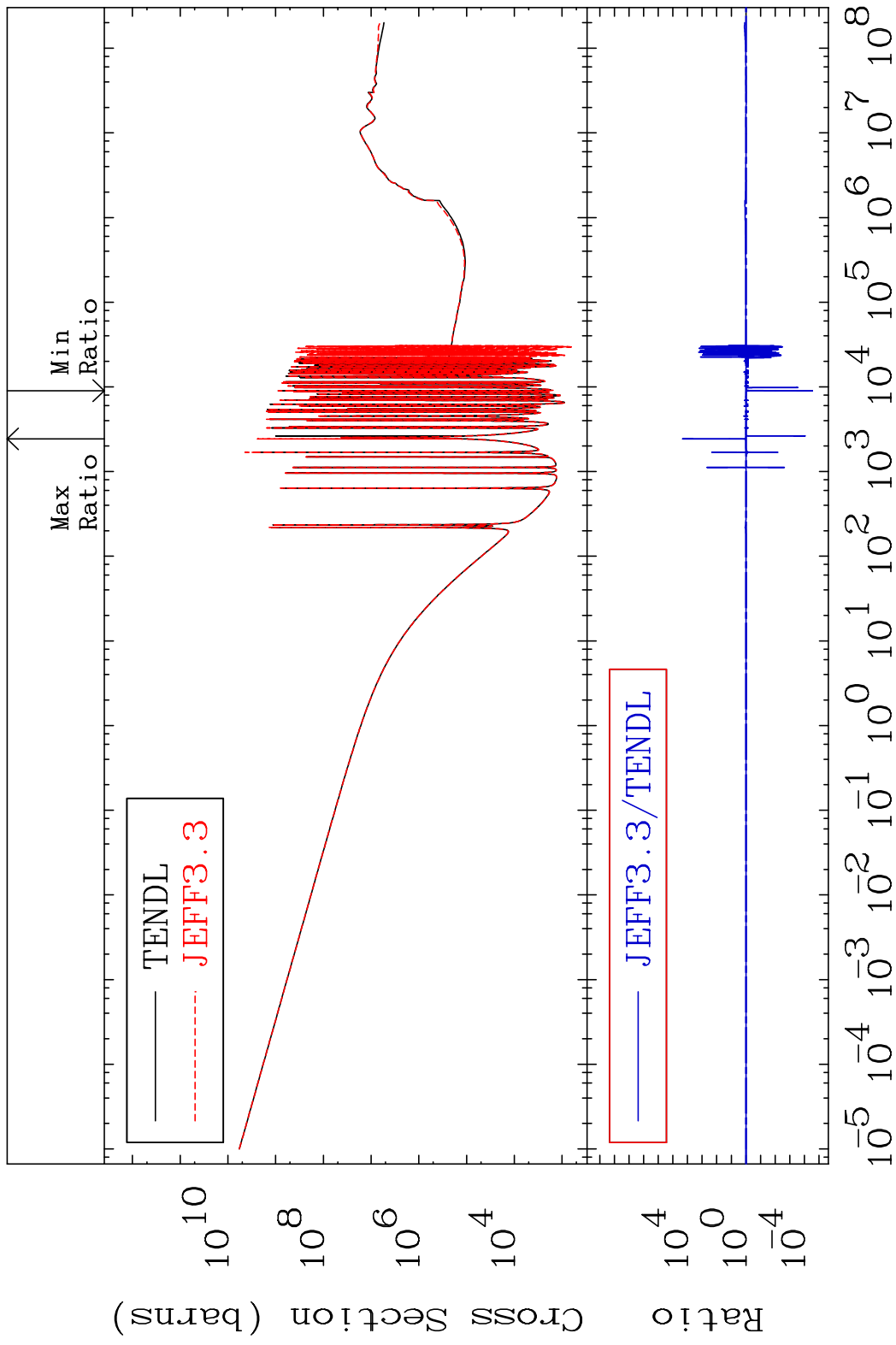
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8

72

Incident Energy (eV)

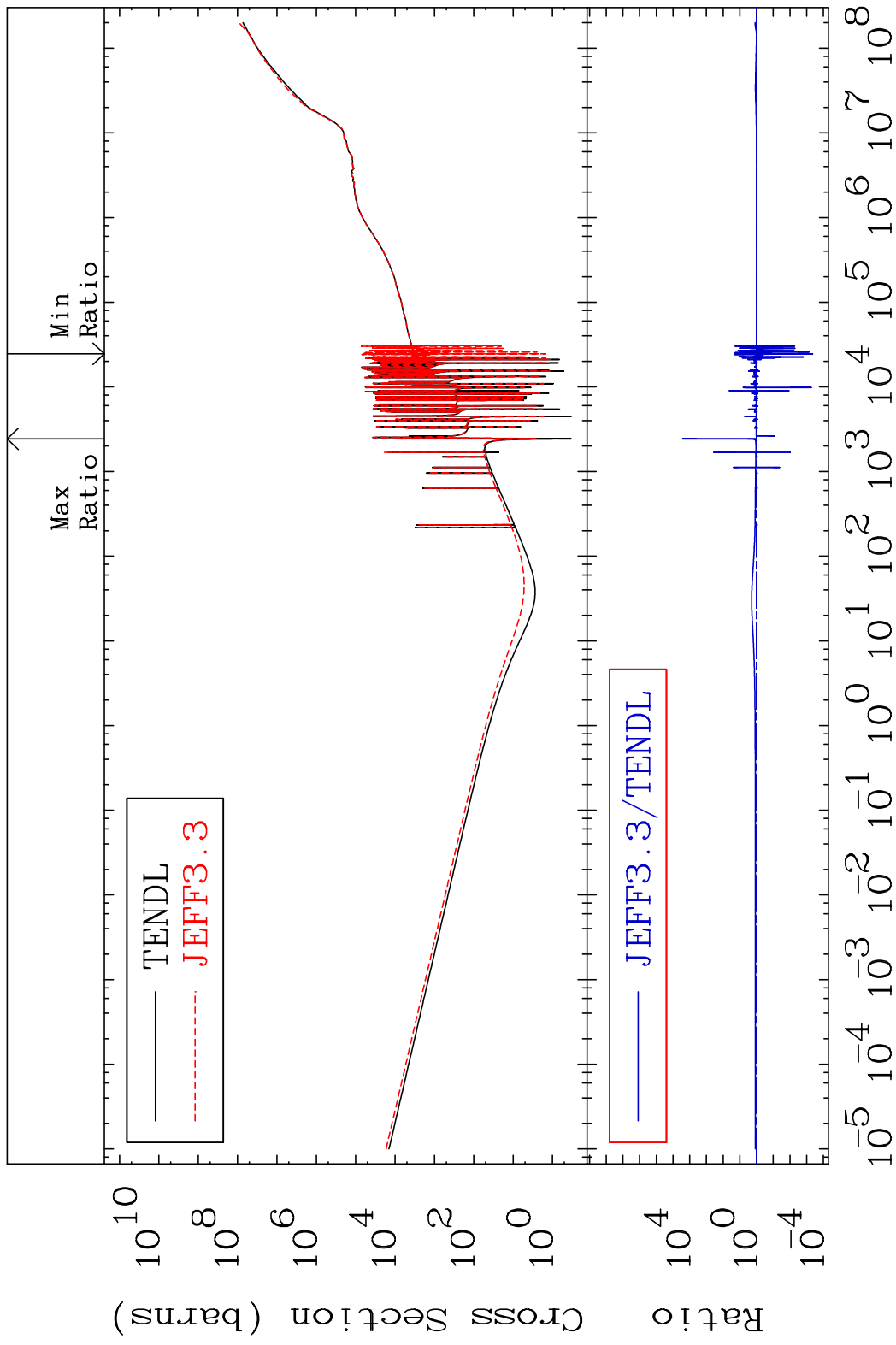
60-Nd-142

MAT 6025 Total photon (eV-barns) 60-Nd-142
Cross Section -100.0 To 9999. %

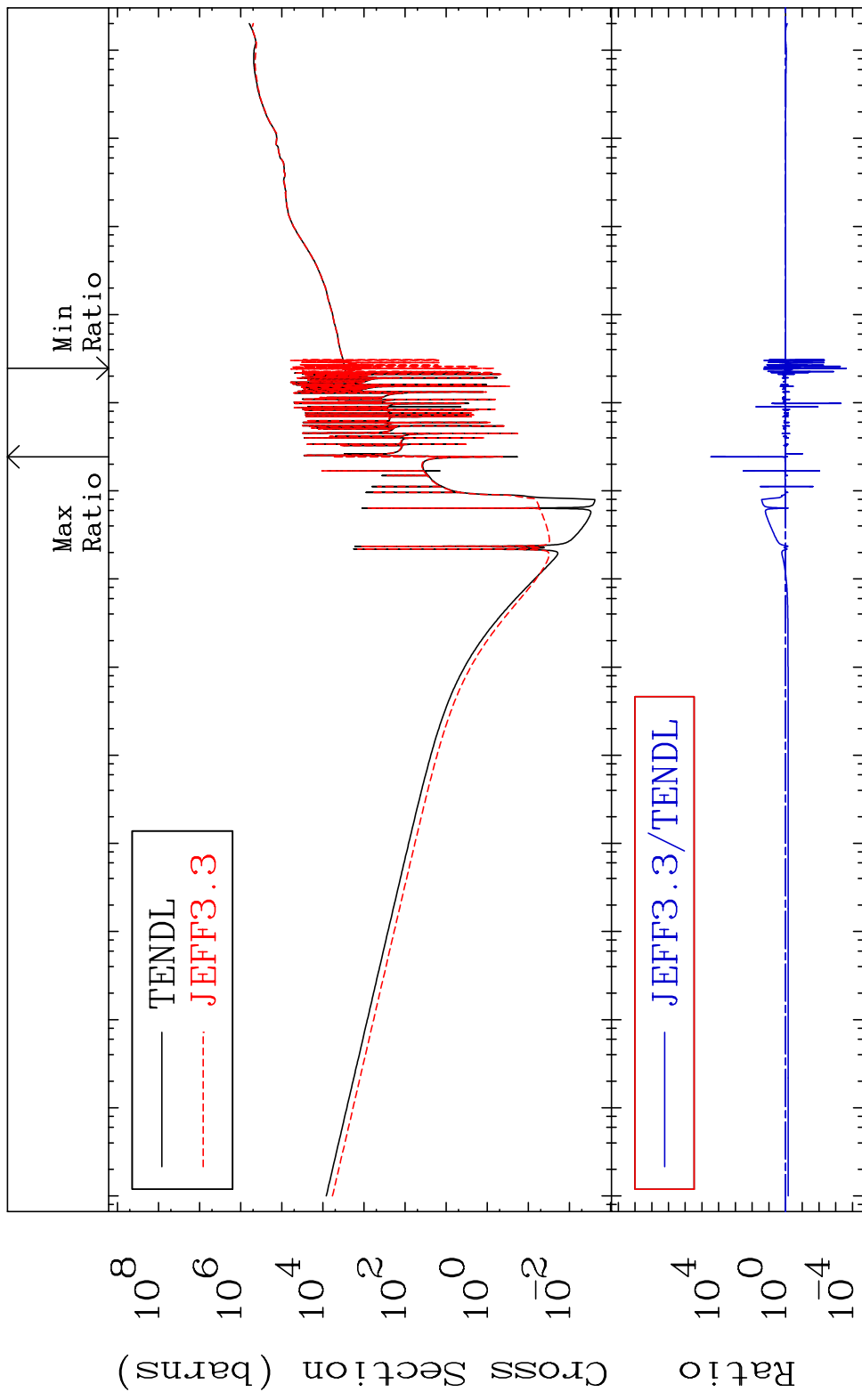


73 Incident Energy (eV) 60-Nd-142

MAT 6025 Total kinematic kerma (high limit) 60-Nd-142
 Cross Section -99.96 To 9999. %



MAT 6025 Dpa total (eV-barns) 60-Nd-142
 Cross Section -99.98 To 9999. %



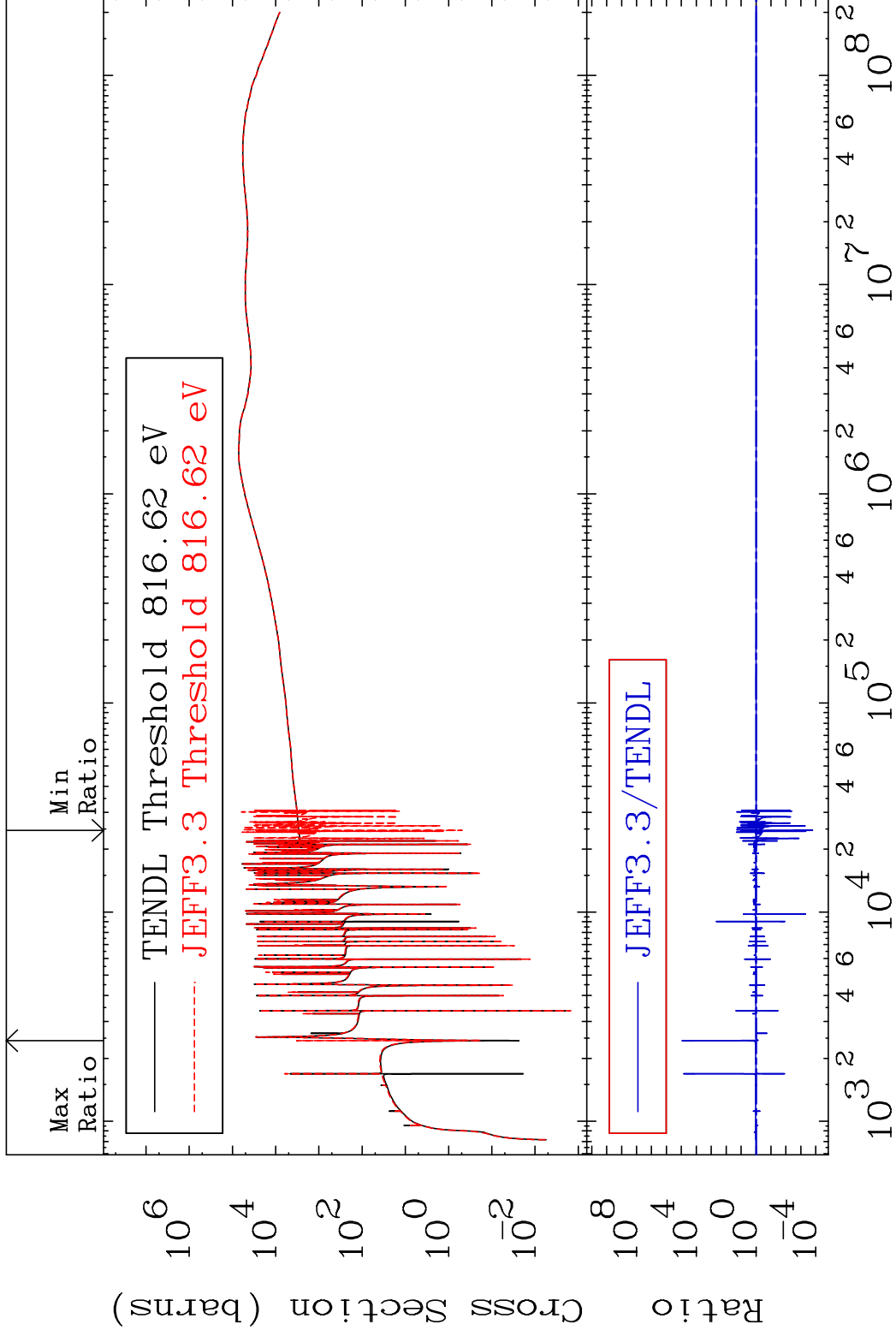
75 Incident Energy (eV) 60-Nd-142

MAT 6025

Dpa elastic (mt2)

60-Nd-142

Cross Section -99.98 To 9999. %

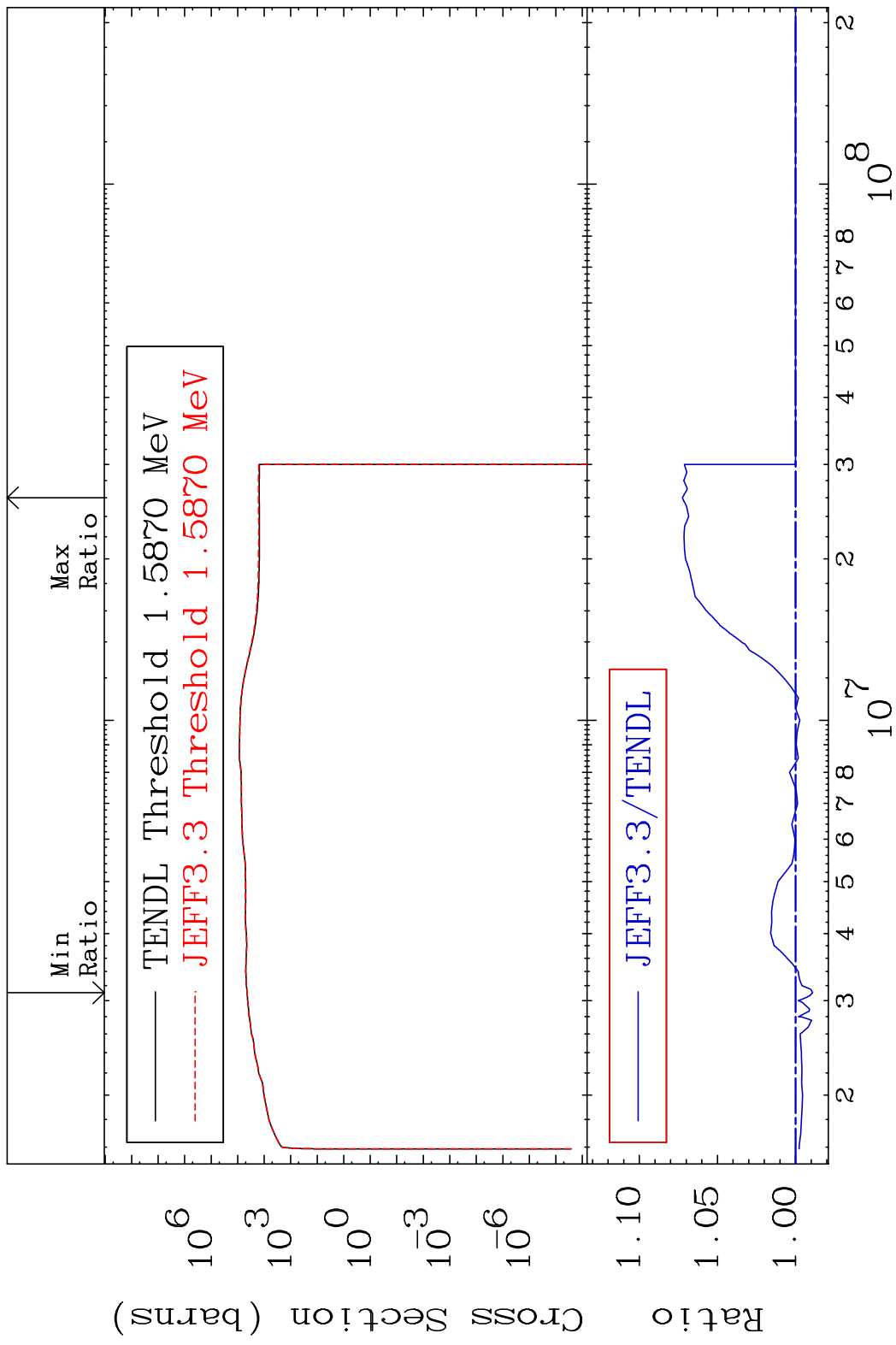


76

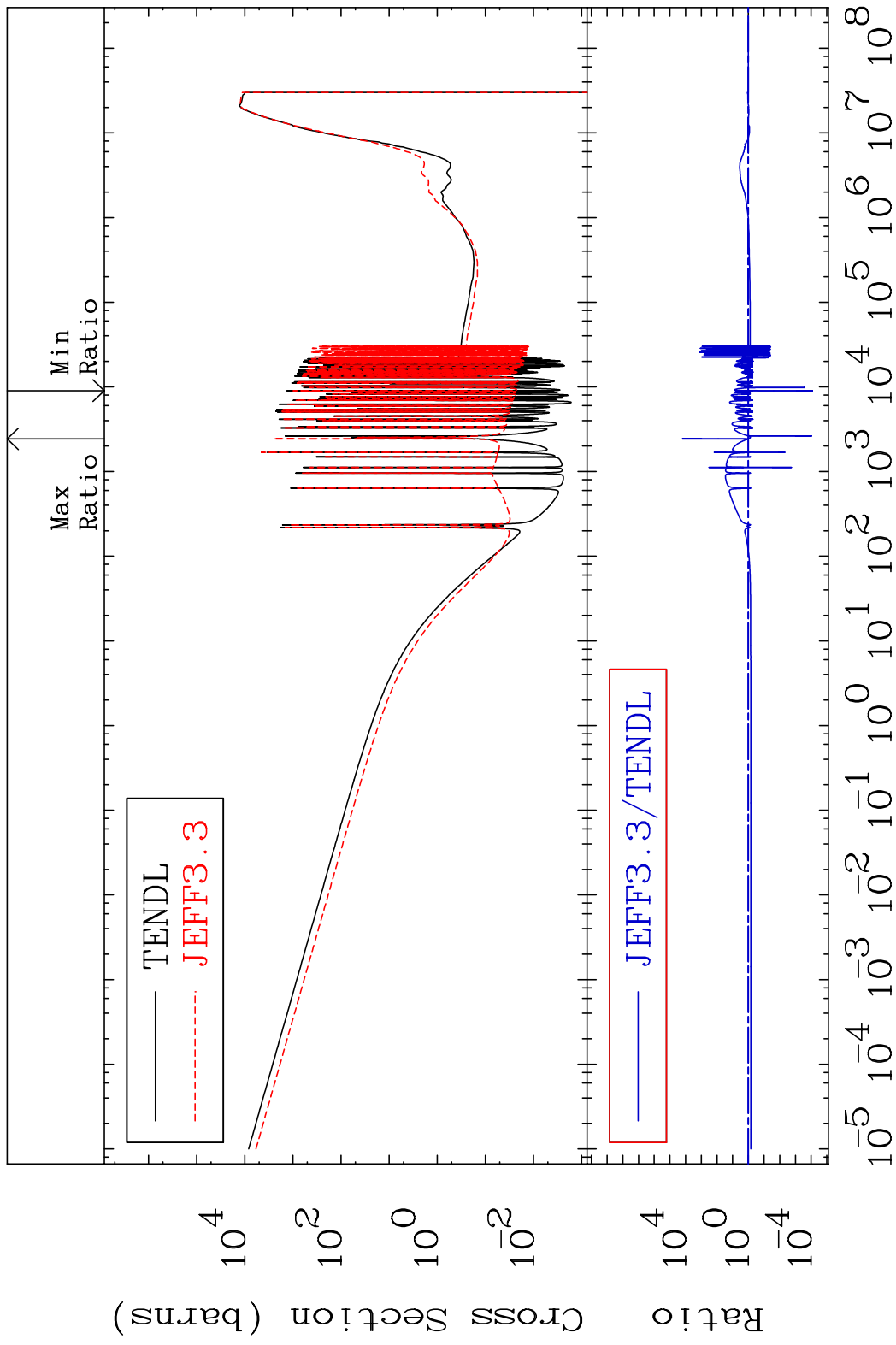
Incident Energy (eV)

60-Nd-142

MAT 6025 Dpa inelastic (mt51-91) 60-Nd-142
 Cross Section -1.089 To 7.249 %

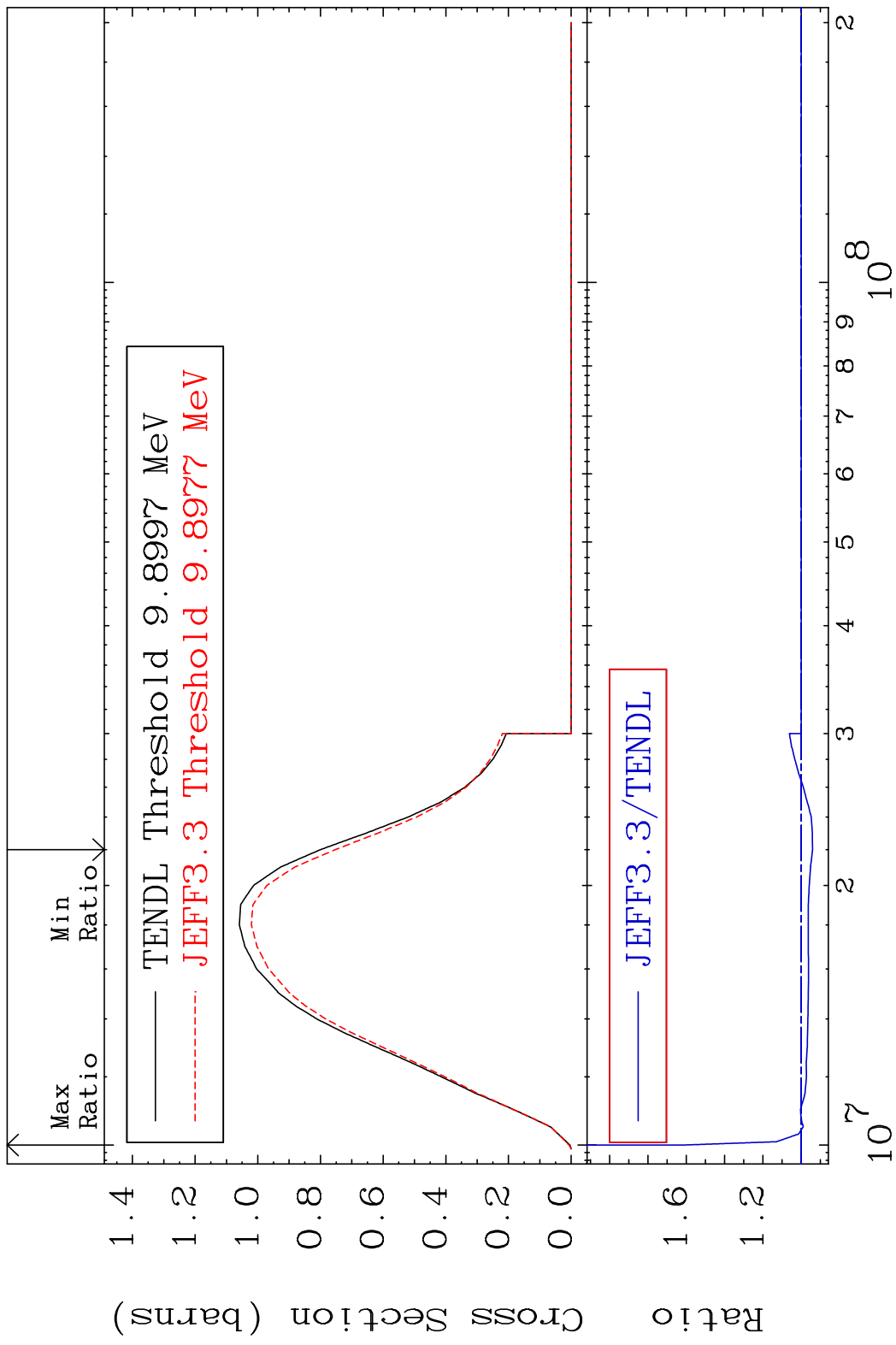


MAT 6025 Dpa disappearance (mt102 -120) 60-Nd-142
 Cross Section -99.99 To 9999. %



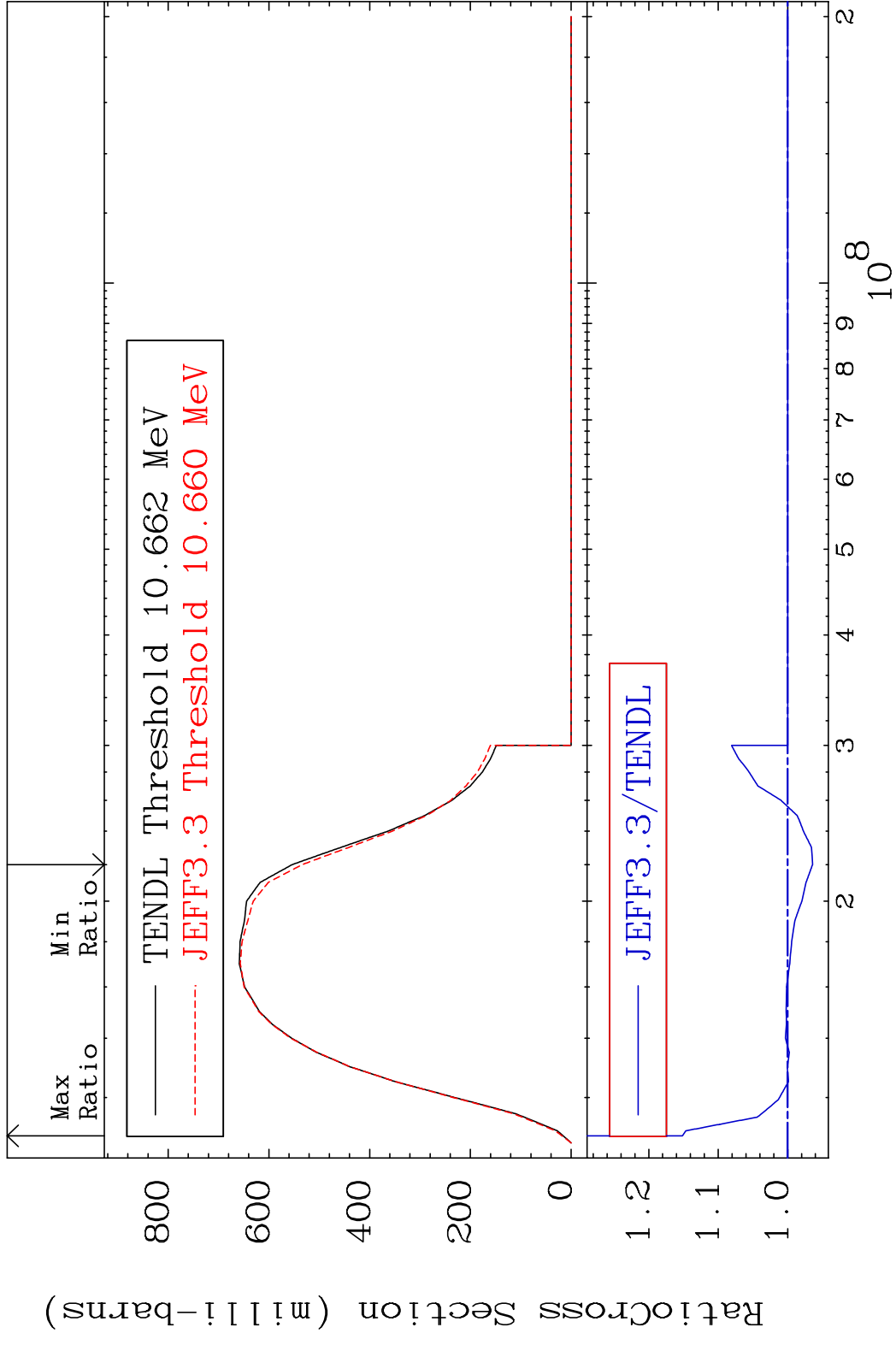
78 Incident Energy (eV) 60-Nd-142

MAT 6025 (n,2n):60-Nd-141g 60-Nd-142
 Radionuclide Production Cross Section 62.06 %

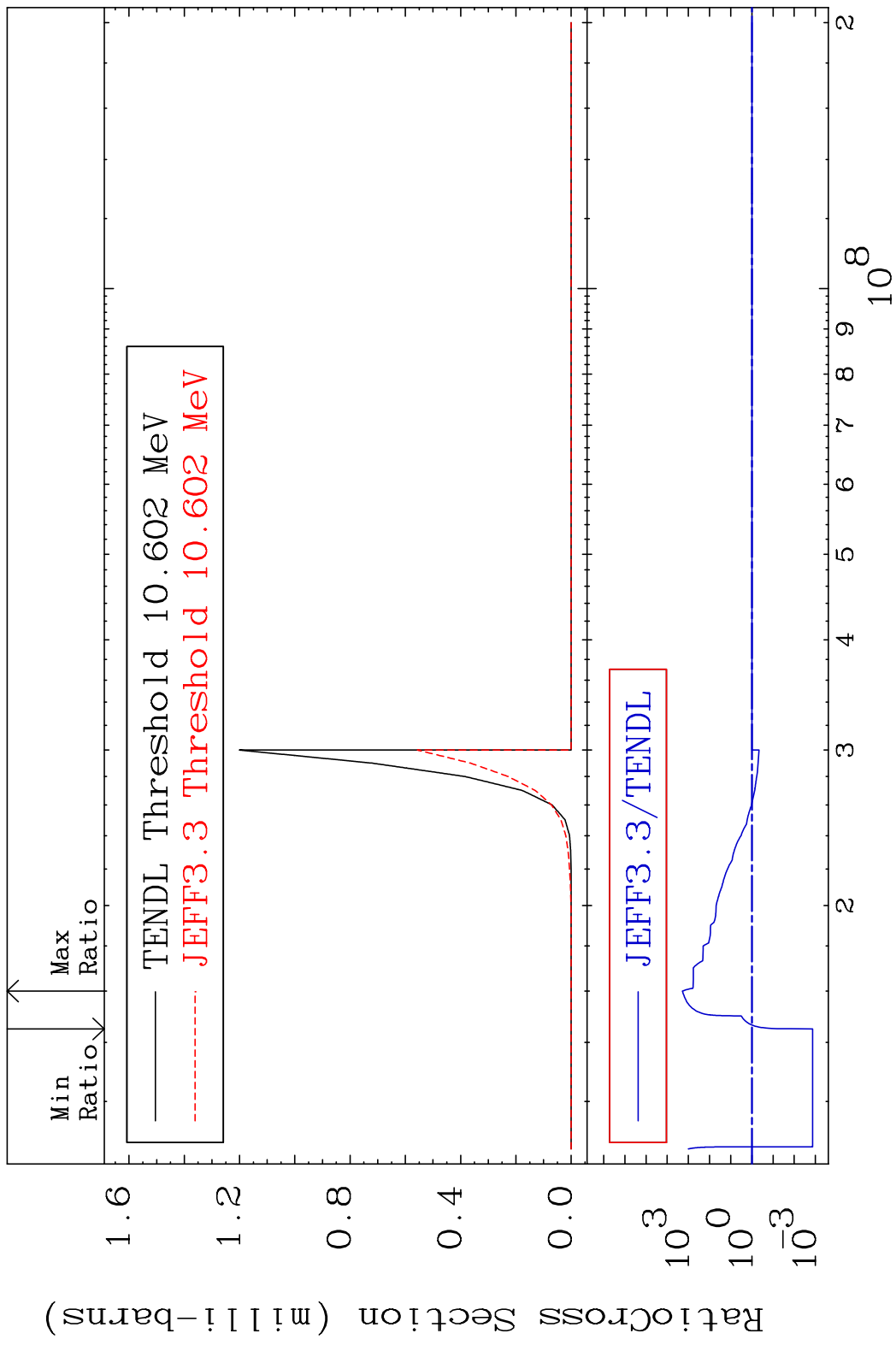


79 Incident Energy (eV) 60-Nd-142

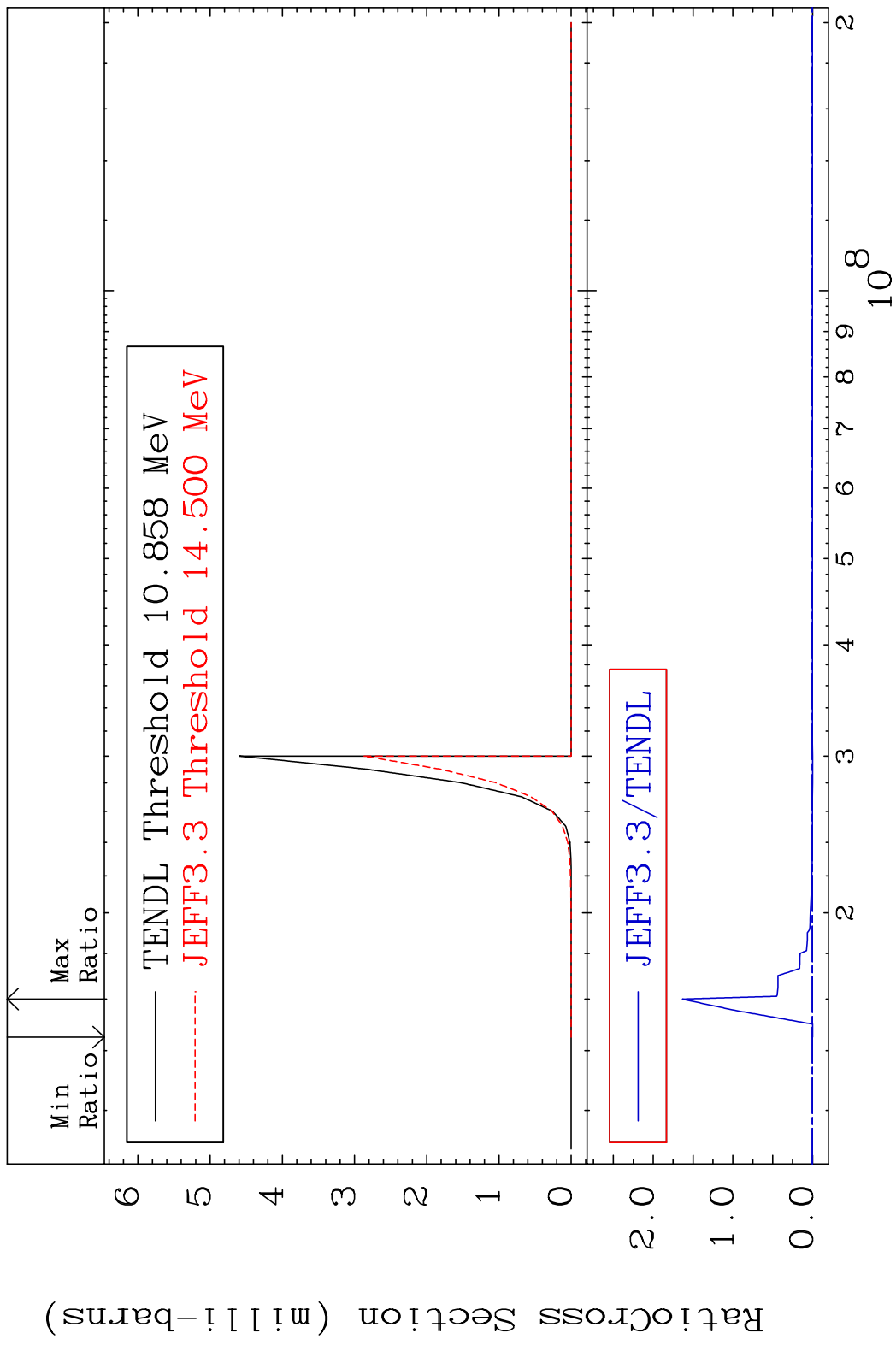
MAT 6025 (n,2n):60-Nd-141m2 60-Nd-142
 Radionuclide Production Cross Section 15.16 %

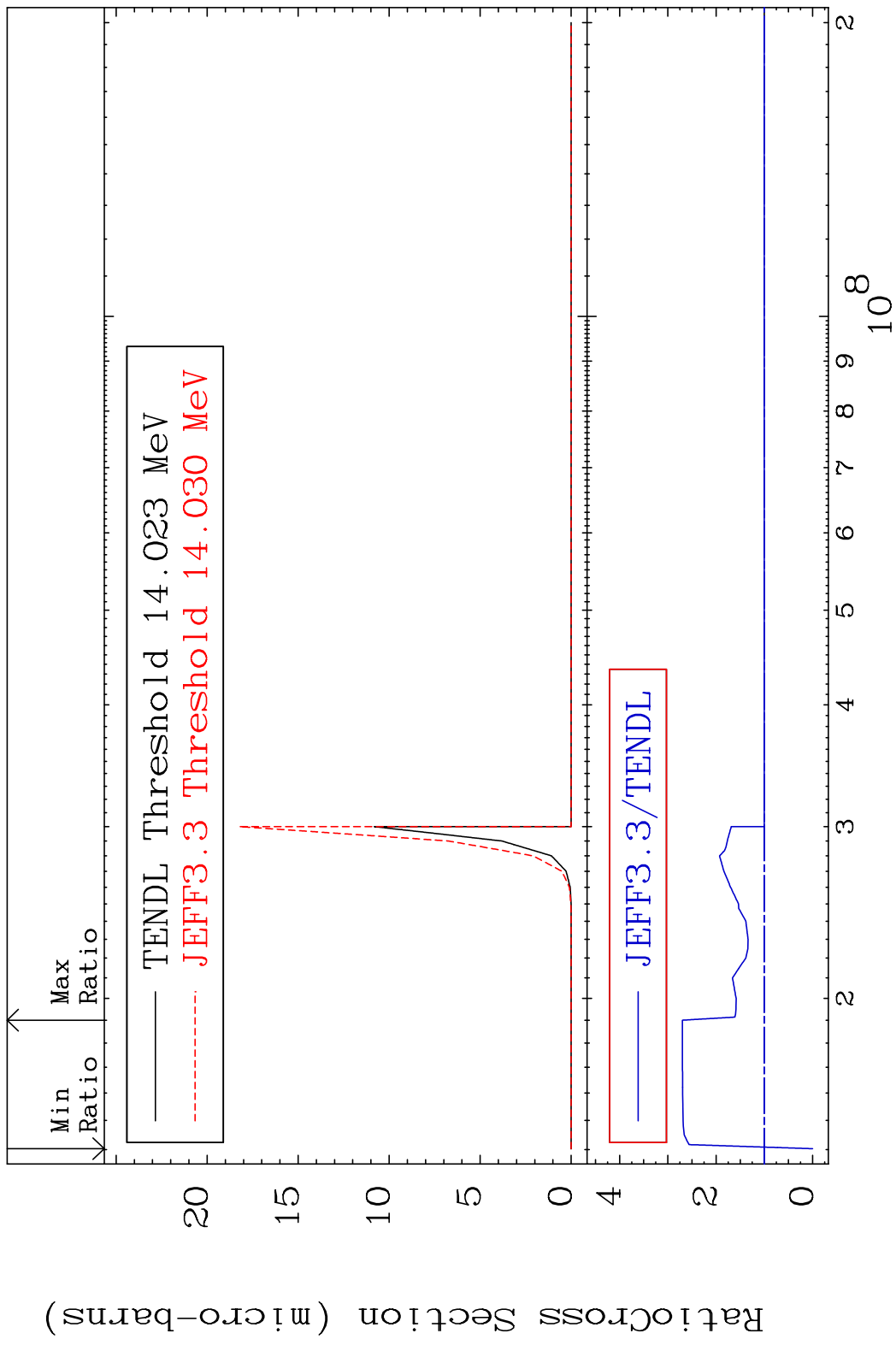


80 60-Nd-142

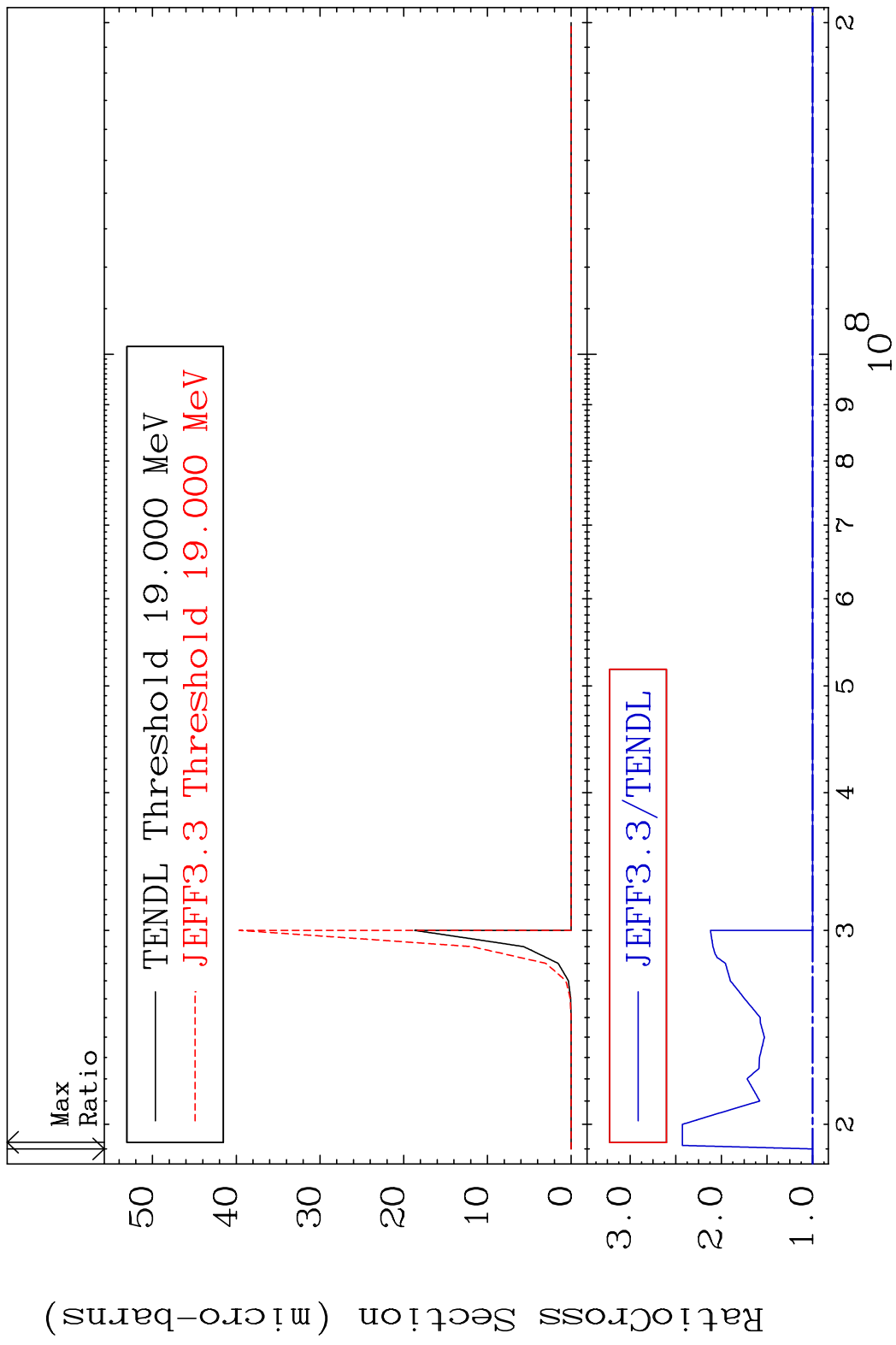


MAT 6025 (n,2n) α :58-Ce-137m2 60-Nd-142
 Radionuclide Production Cross Section 100.00 dth 9999. %



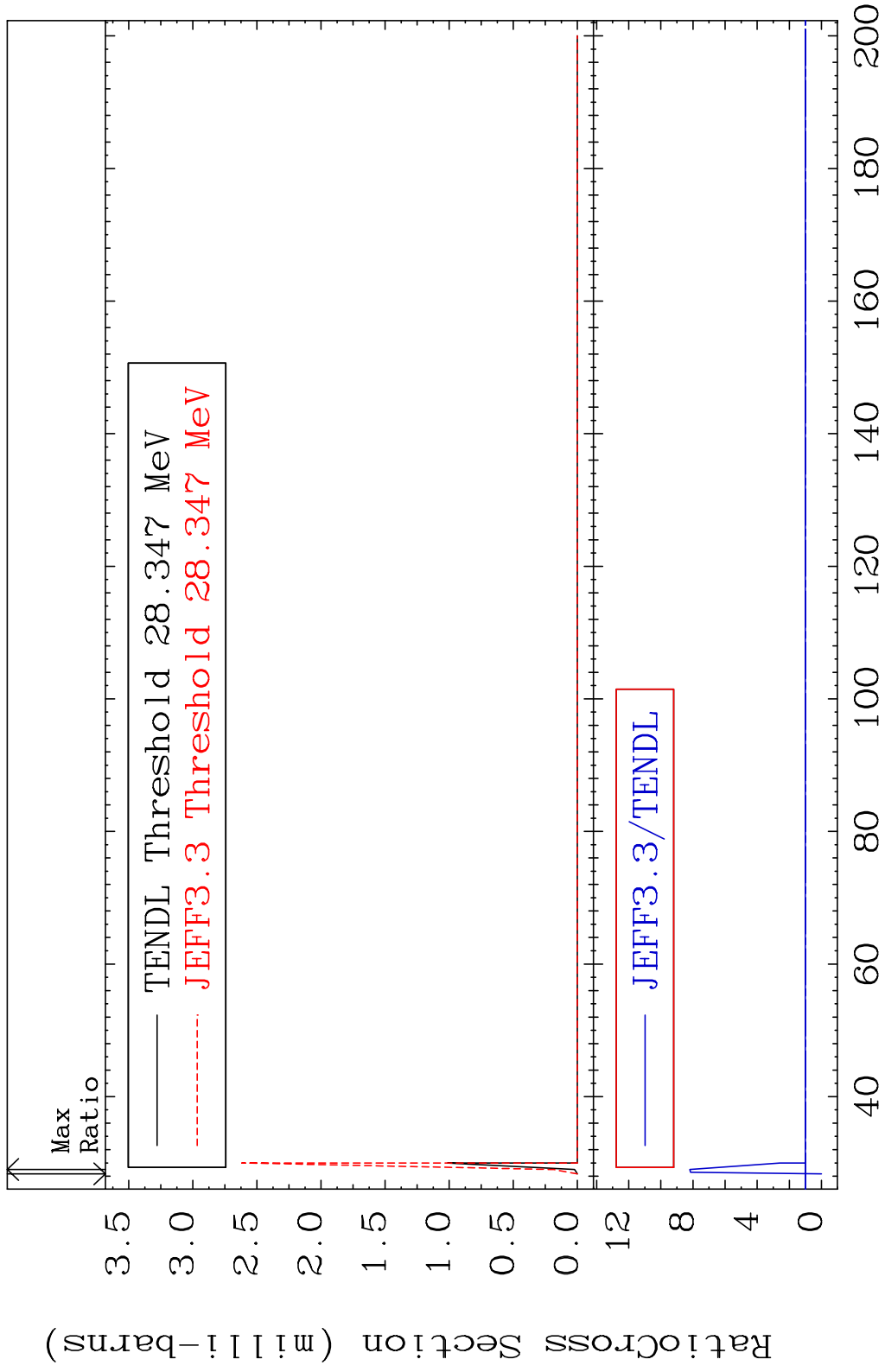


MAT 6025 (n, n') He-3:58-Ce-139m2 60-Nd-142
 Radionuclide Production Cross Section 142.8 %

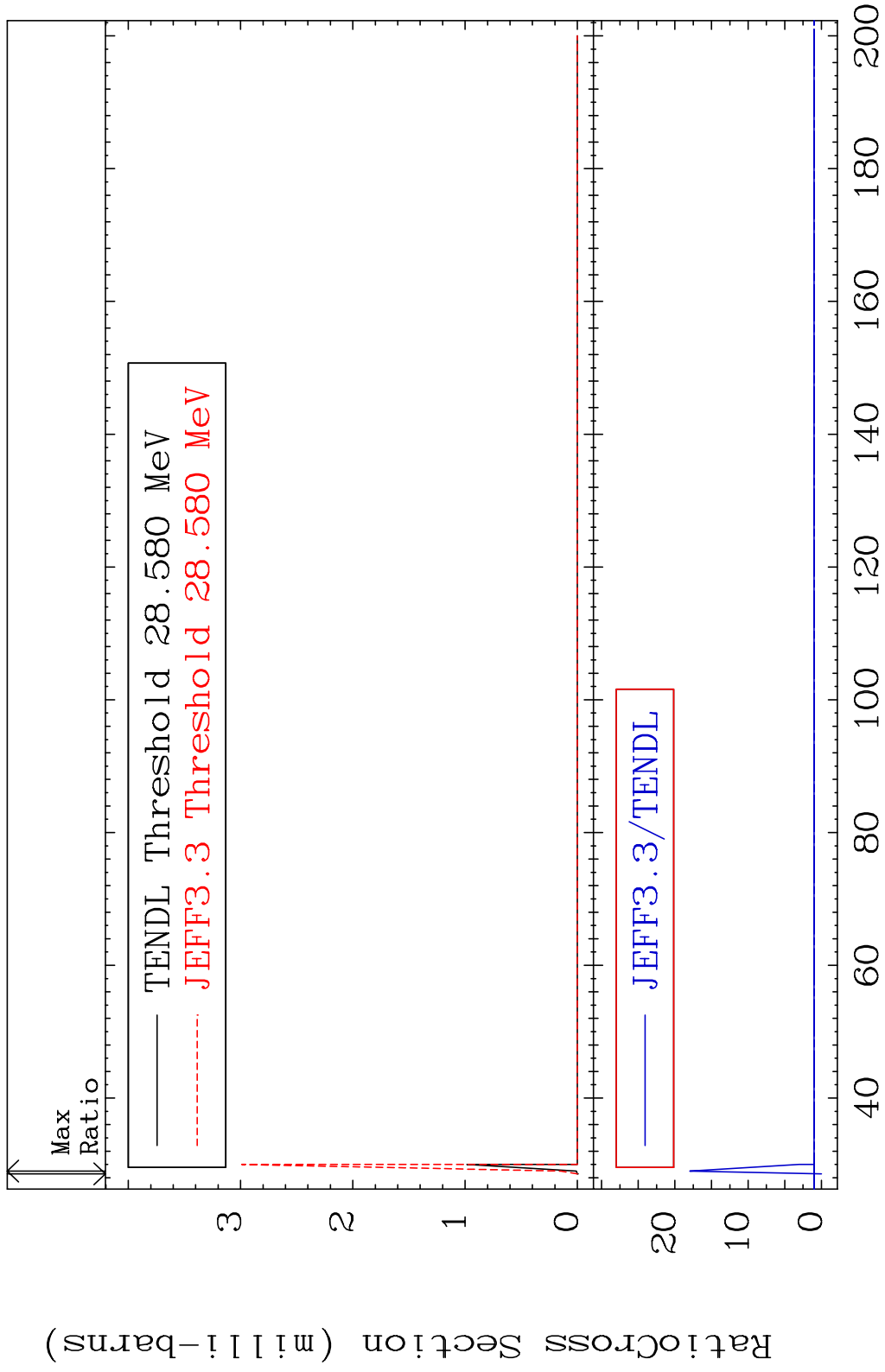


84 Incident Energy (eV) 60-Nd-142

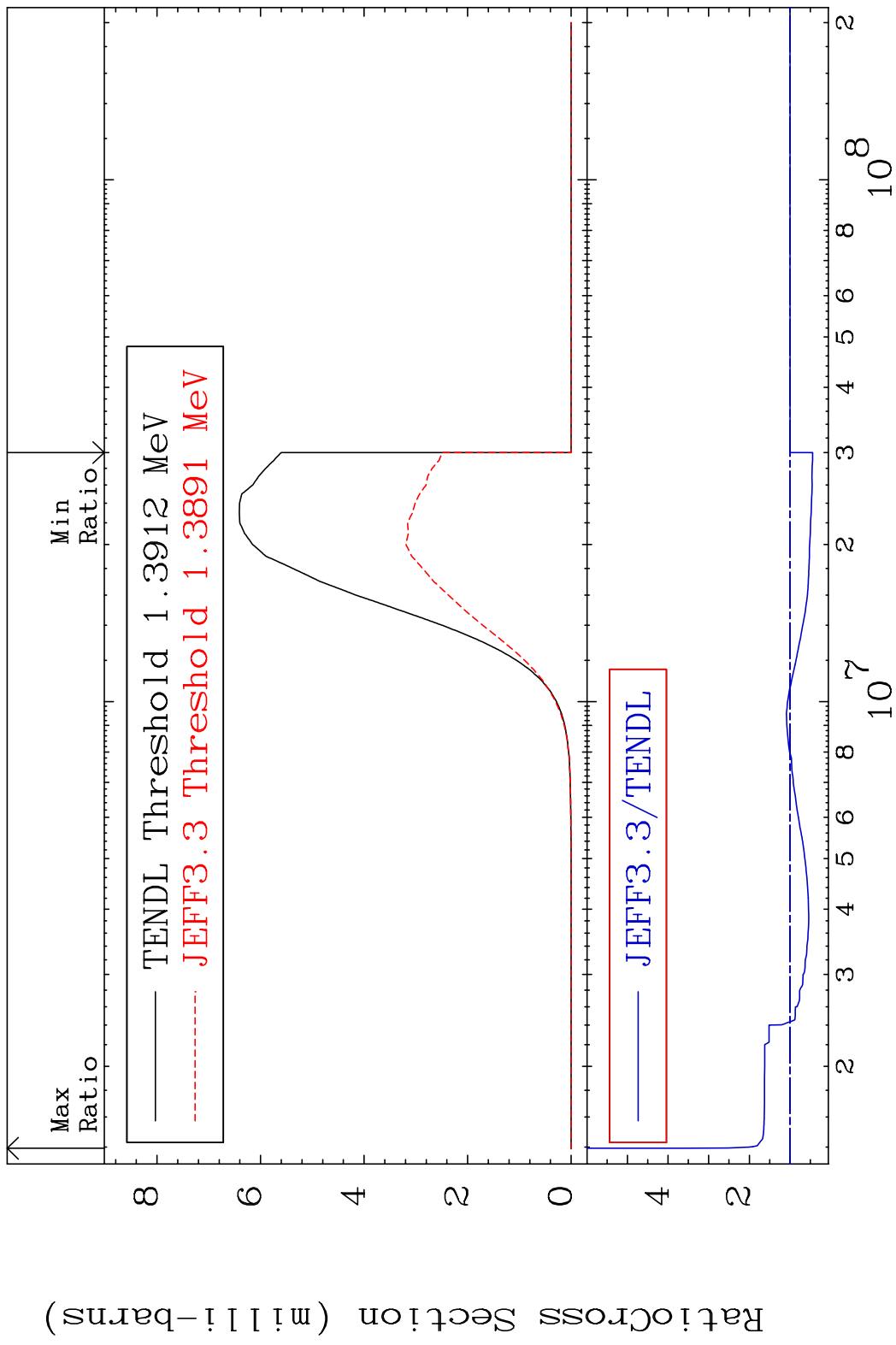
MAT 6025 (n,4n):60-Nd-139g 60-Nd-142
 Radionuclide Production Cross Section 180.01 dth 719.9 %

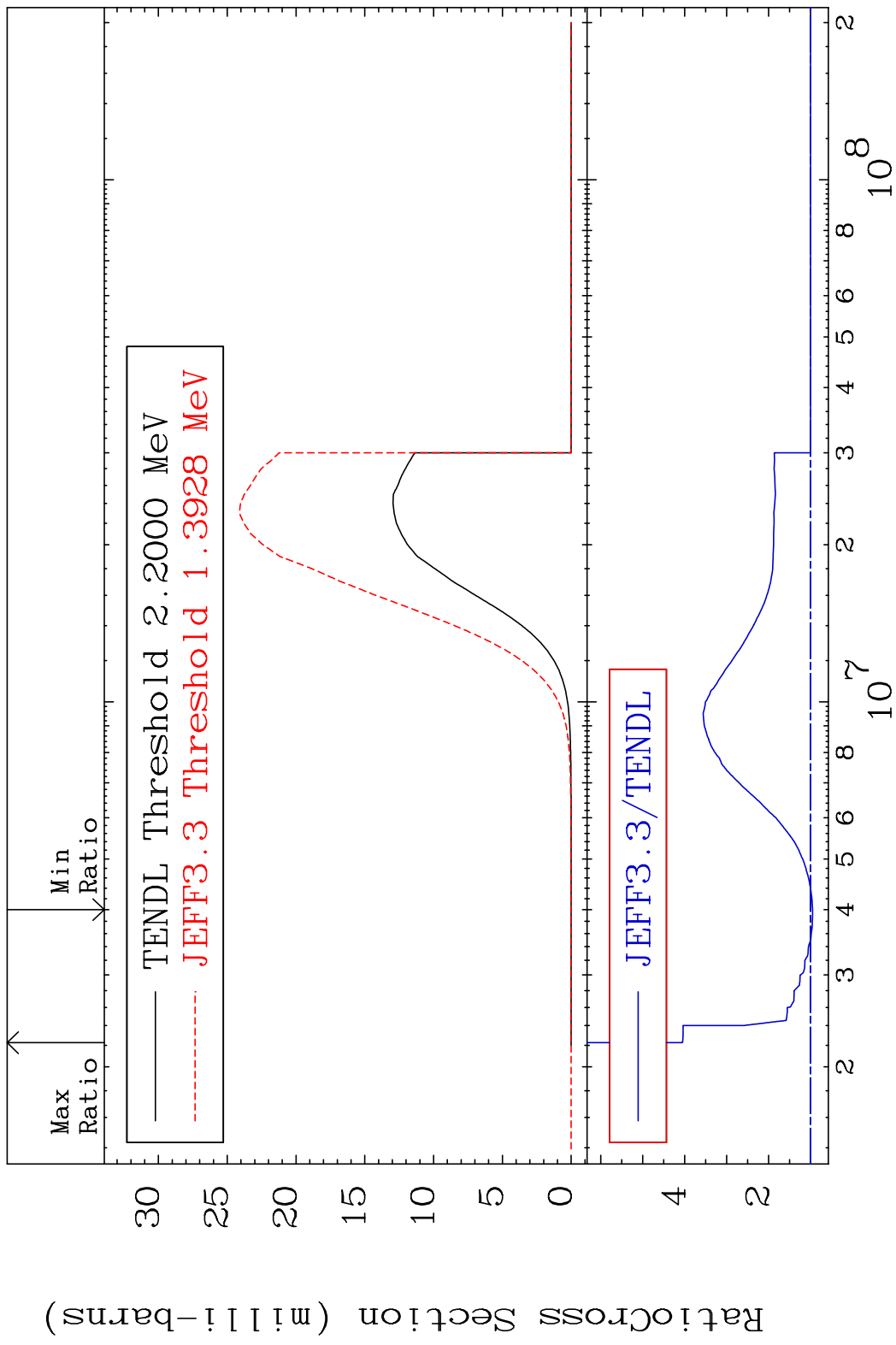


MAT 6025 (n, 4n):60-Nd-139m2 60-Nd-142
 Radionuclide Production Cross Section 180.01 dth 1697. %

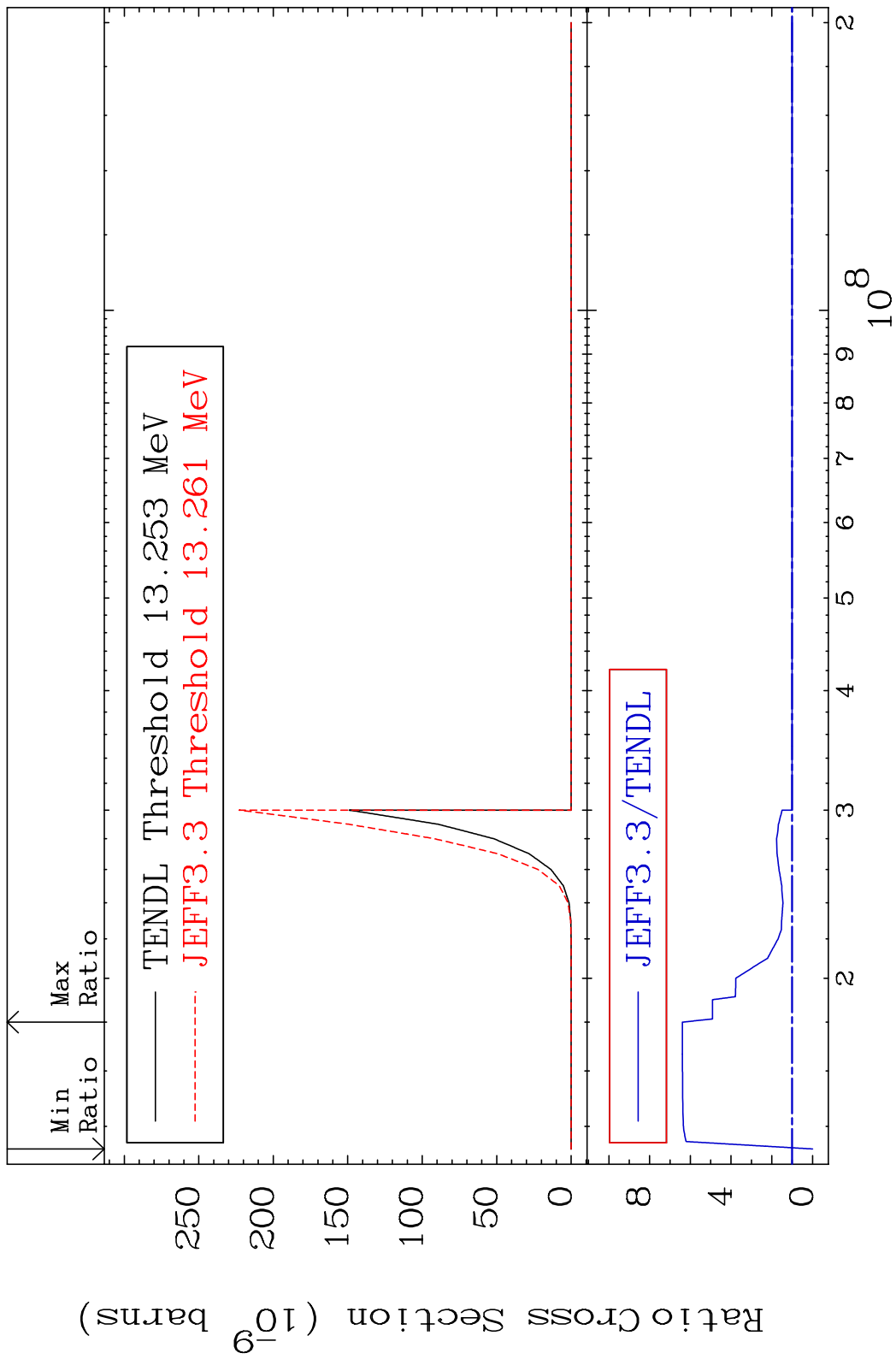


MAT 6025 (n,p):59-Pr-142g 60-Nd-142
 Radionuclide Production Cross Section 55e57 d10 264.8 %





MAT 6025 (n,p) t:58-Ce-139g 60-Nd-142
 Radionuclide Production Cross Section 180.01 dth 539.2 %



MAT 6025 (n, p) t:58-Ce-139m2 60-Nd-142
 Radionuclide Production Cross Section 476.6 %

