

Program Complot
(Version 2021-1)

by

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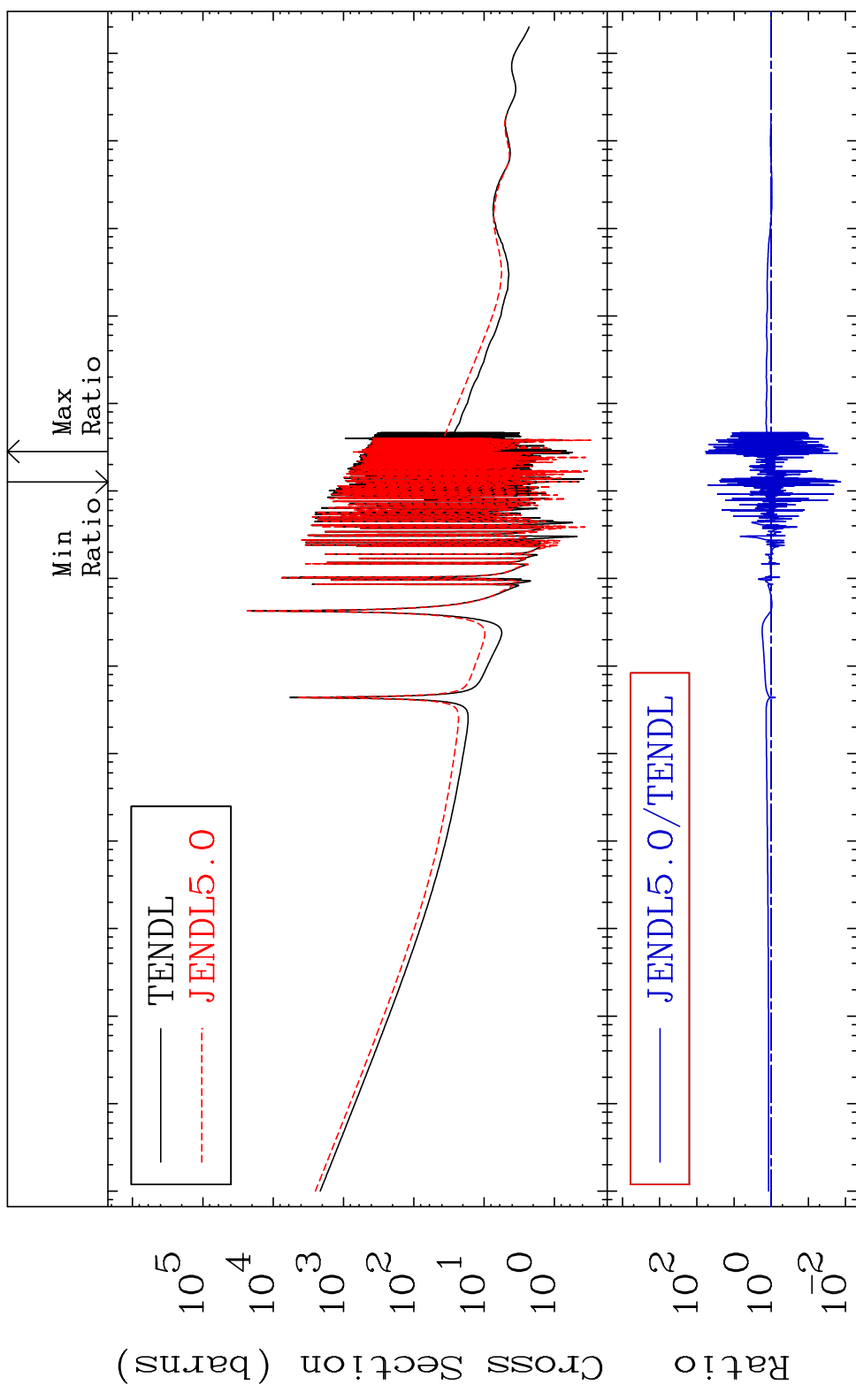
Tele: 925-443-1911

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Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6034

Total 60-Nd-145
Cross Section -98.63 To 5655. %



10⁵ 10⁴ 10³ 10² 10¹ 10⁰ 10⁻¹ 10⁻² 10⁻³ 10⁻⁴ 10⁻⁵

10⁸ 10⁷ 10⁶ 10⁵ 10⁴ 10³ 10² 10¹ 10⁰

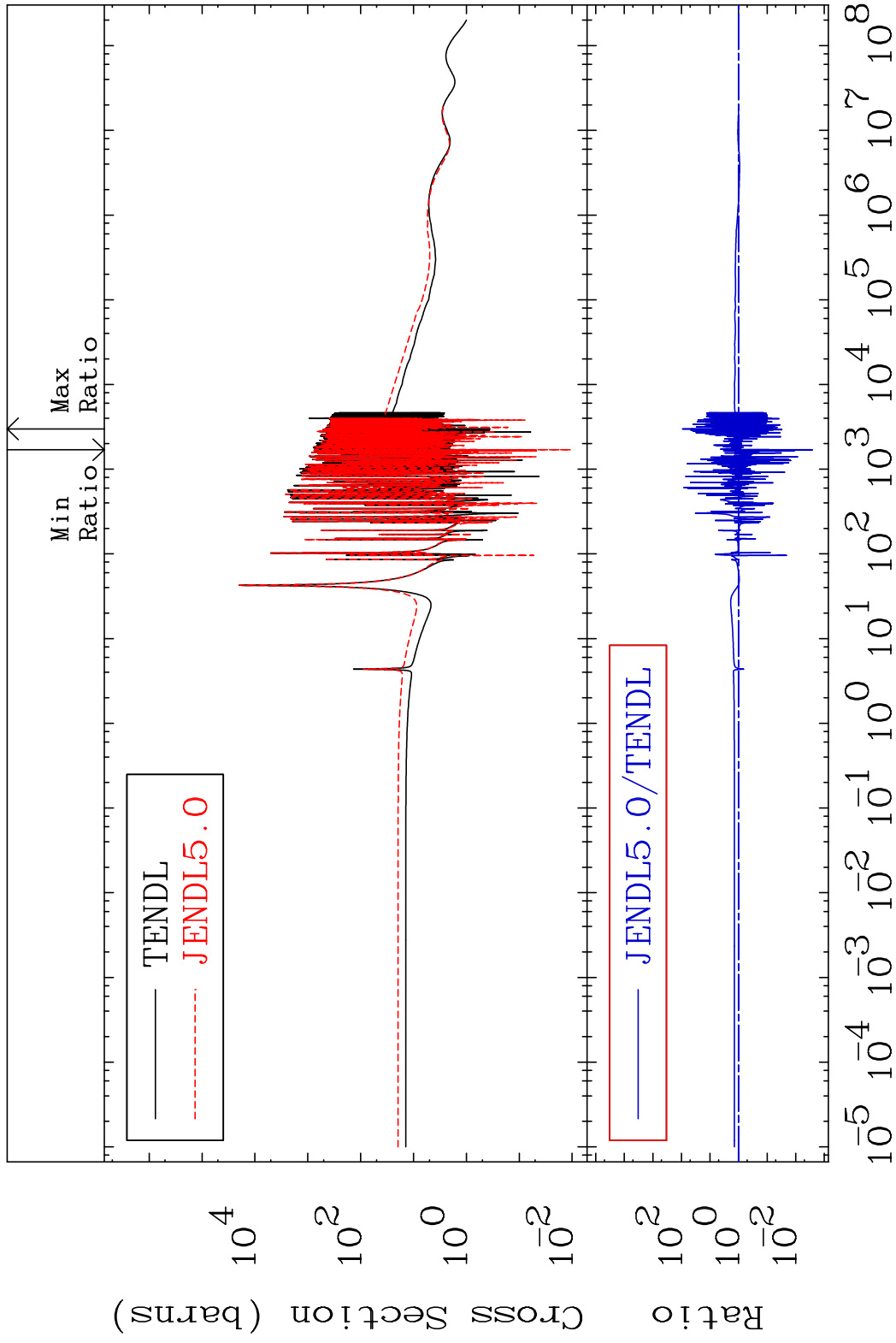
Incident Energy (eV) 60-Nd-145

MAT 6034

Elastic

60-Nd-145

Cross Section -99.74 To 9186. %

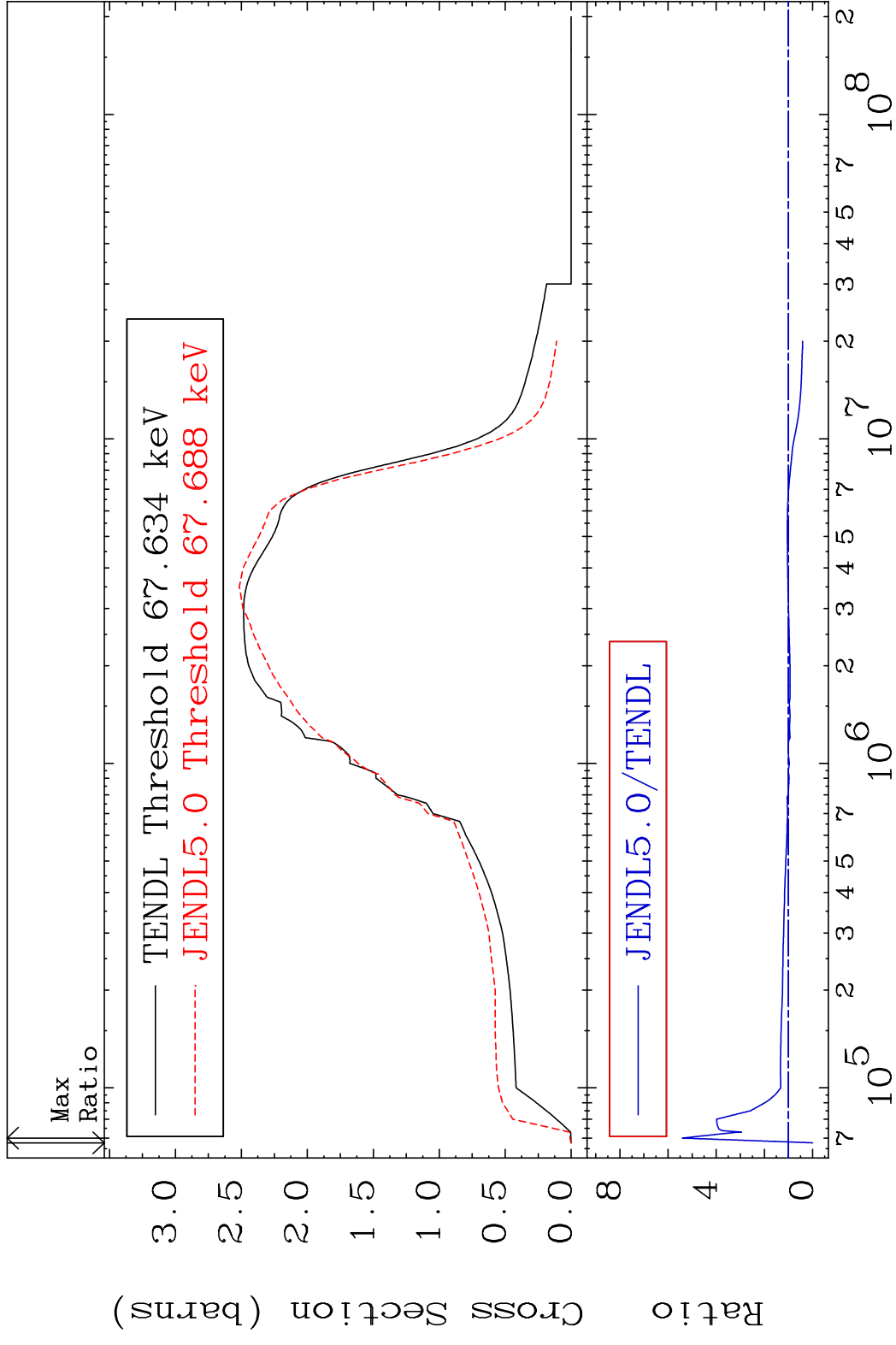


2

Incident Energy (eV)

60-Nd-145

MAT 6034 Inelastic 60-Nd-145
 Cross Section -100.0 To 440.6 %



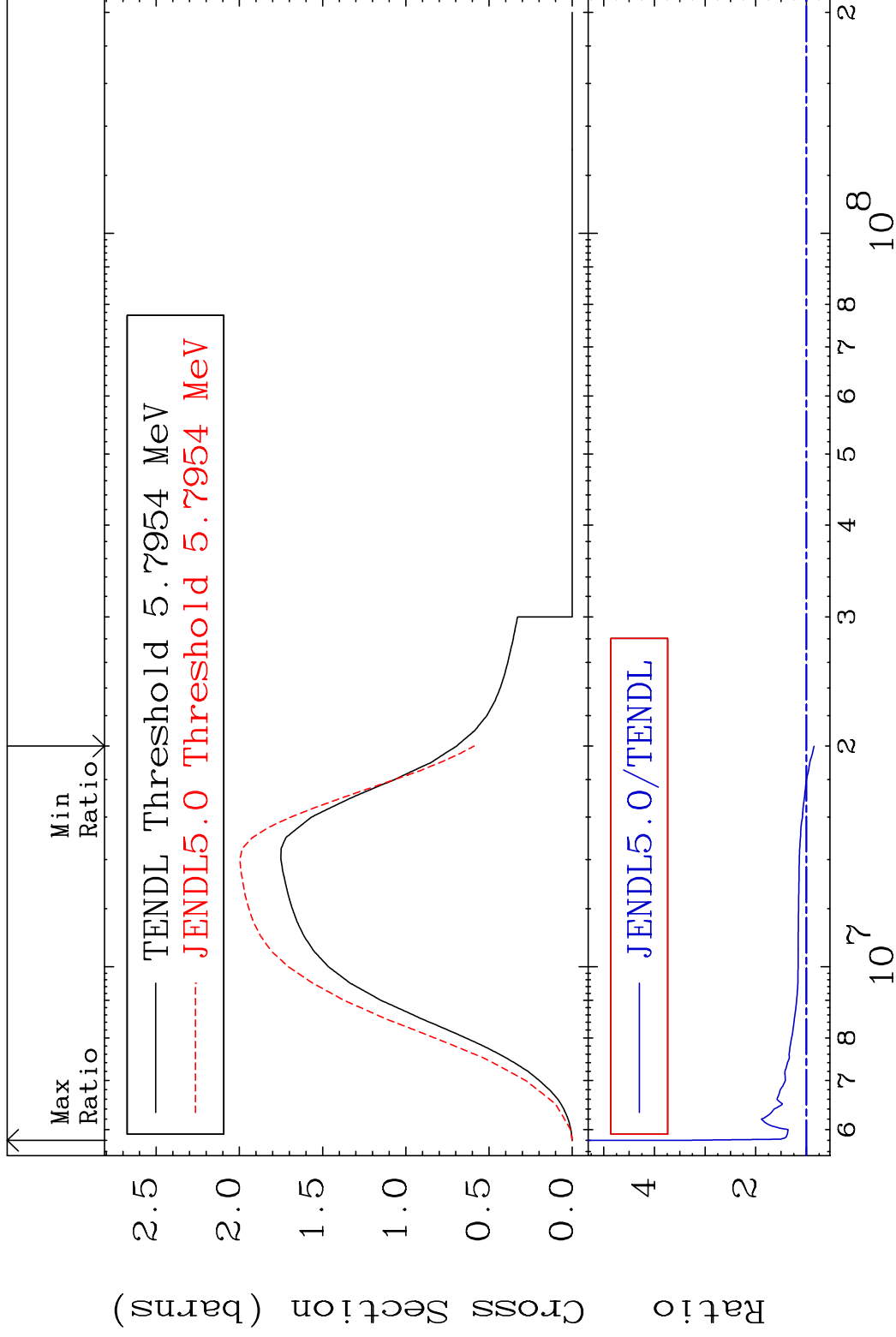
3 Incident Energy (eV) 60-Nd-145

MAT 6034

(n,2n)

60-Nd-145

Cross Section -15.16 To 242.4 %



4

Incident Energy (eV)

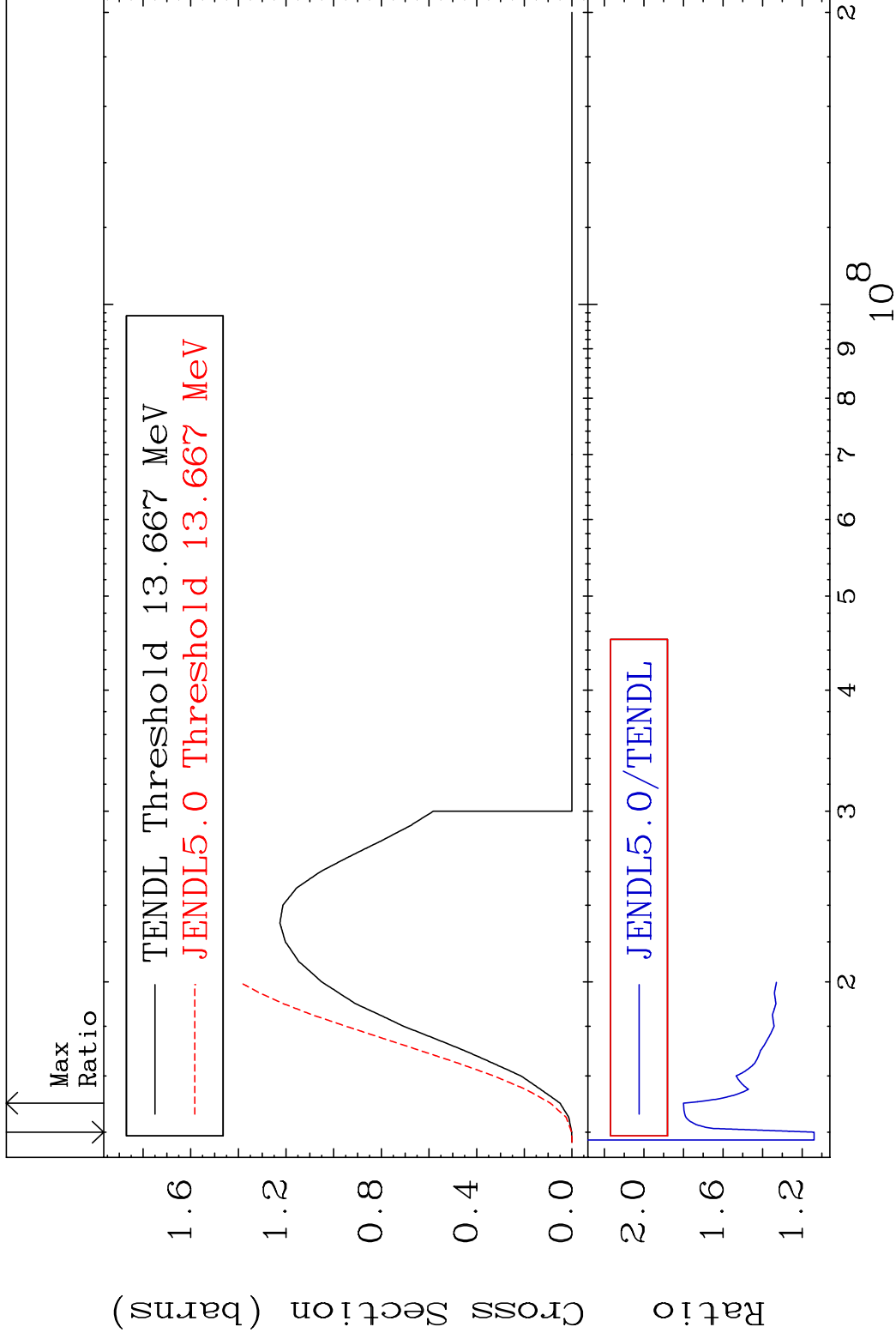
60-Nd-145

MAT 6034

(n,3n)

60-Nd-145

Cross Section 13.99 To 80.01 %



5

Incident Energy (eV)

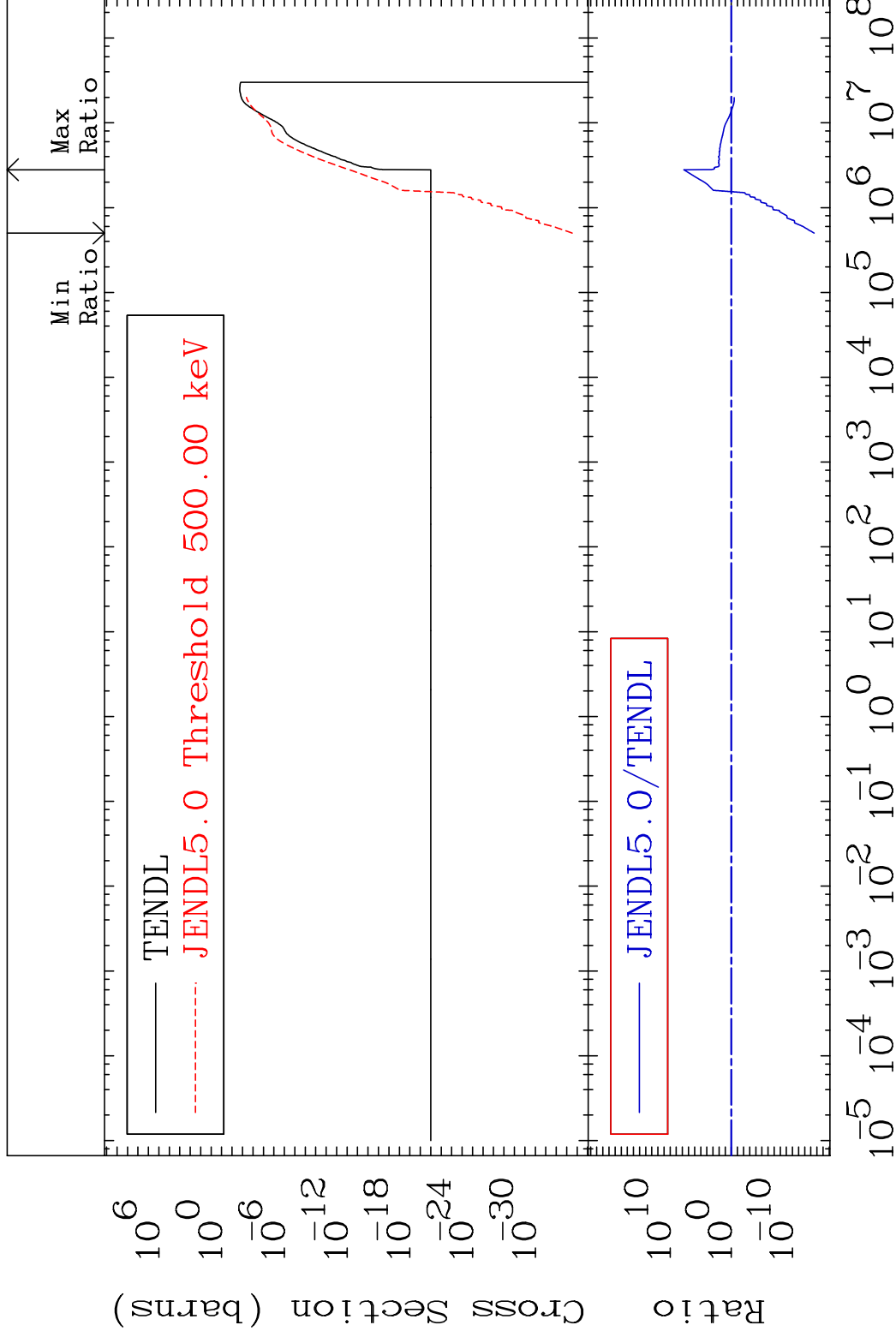
60-Nd-145

MAT 6034

(n, n') α

60-Nd-145

Cross Section -100.0 To 9999. %

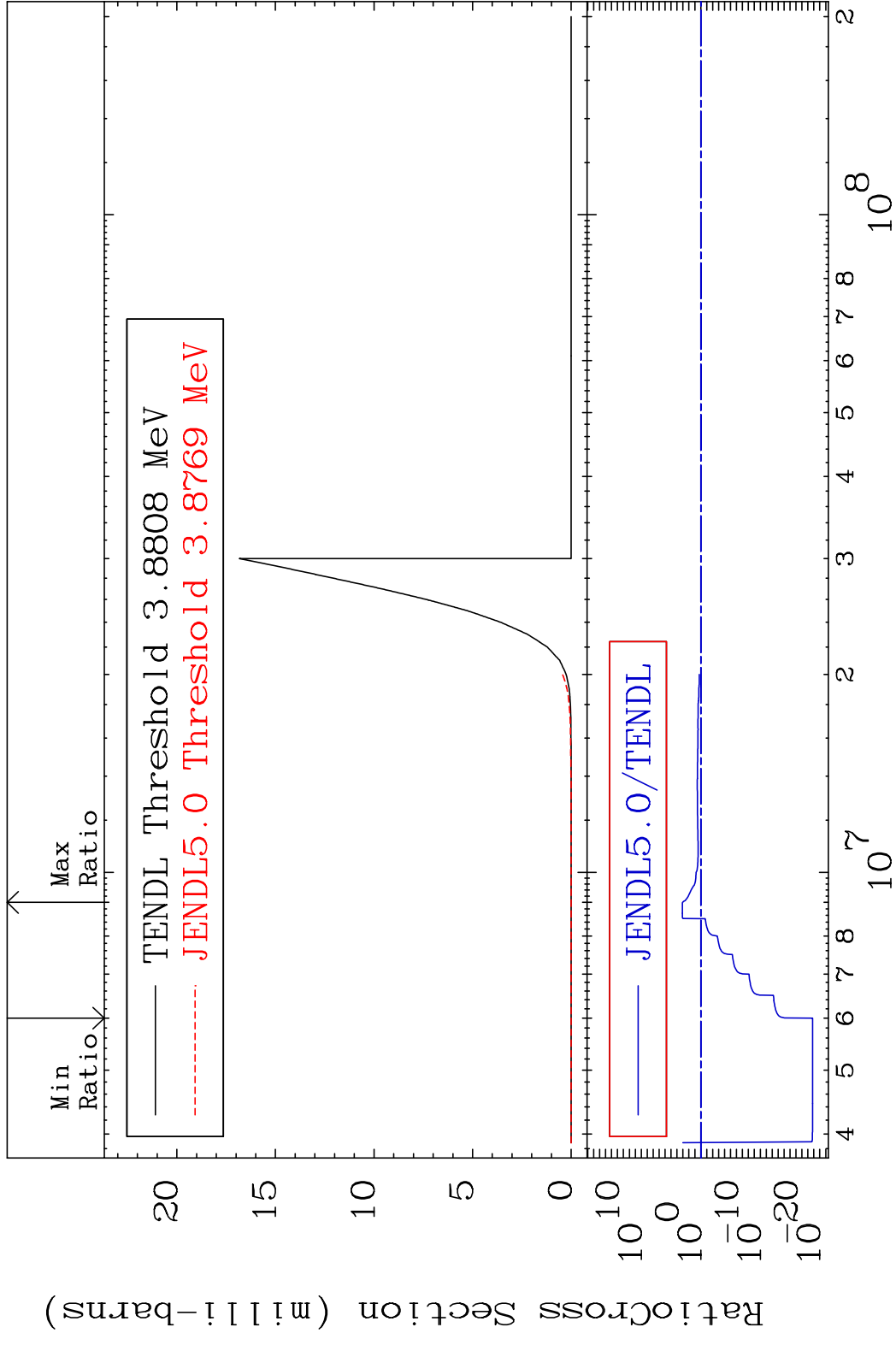


6

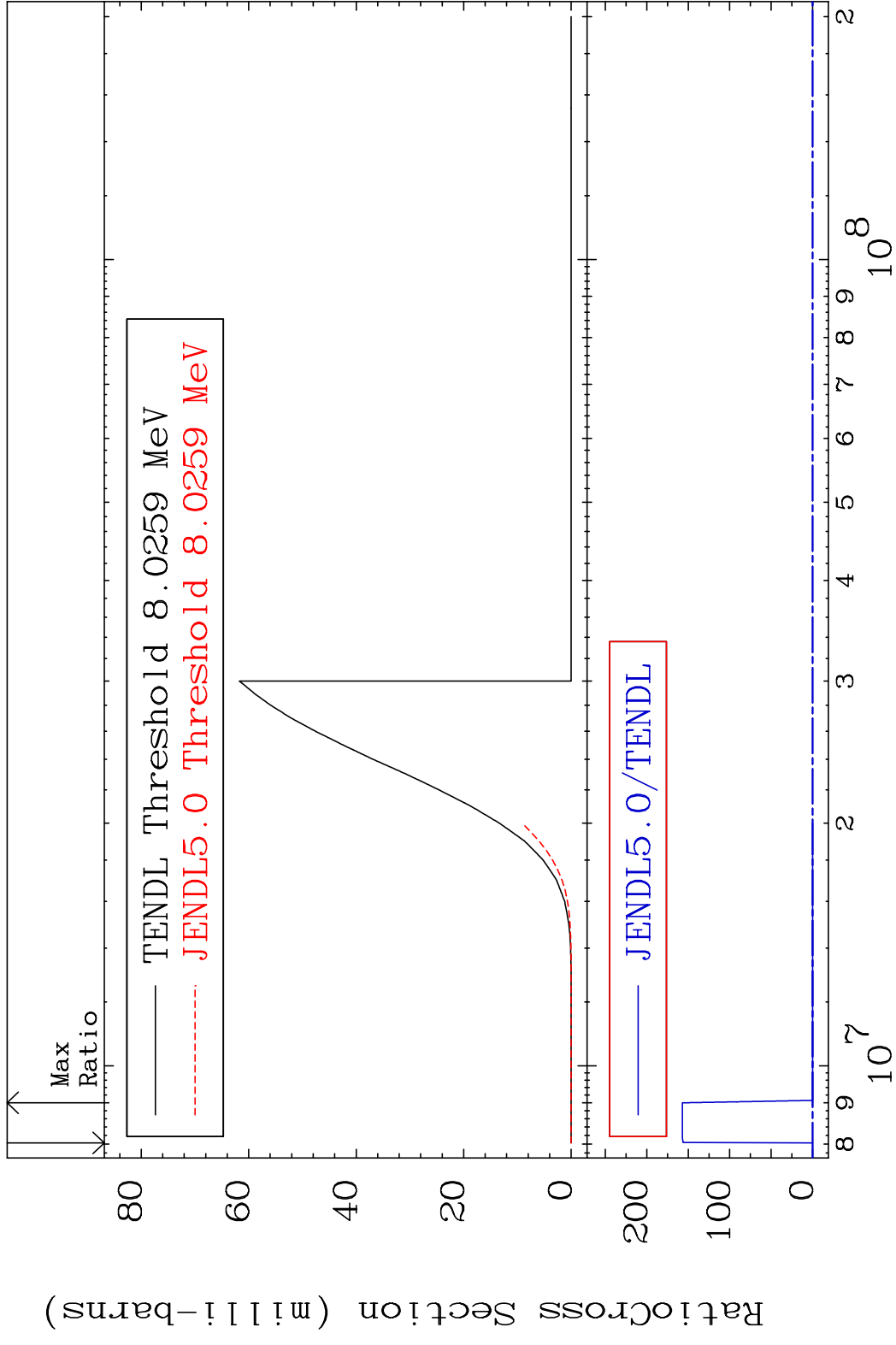
Incident Energy (eV)

60-Nd-145

MAT 6034 (n,2n) α 60-Nd-145
 Cross Section -100.0 To 9999. %



MAT 6034 (n, n') p 60-Nd-145
 Cross Section -100.0 To 9999. %



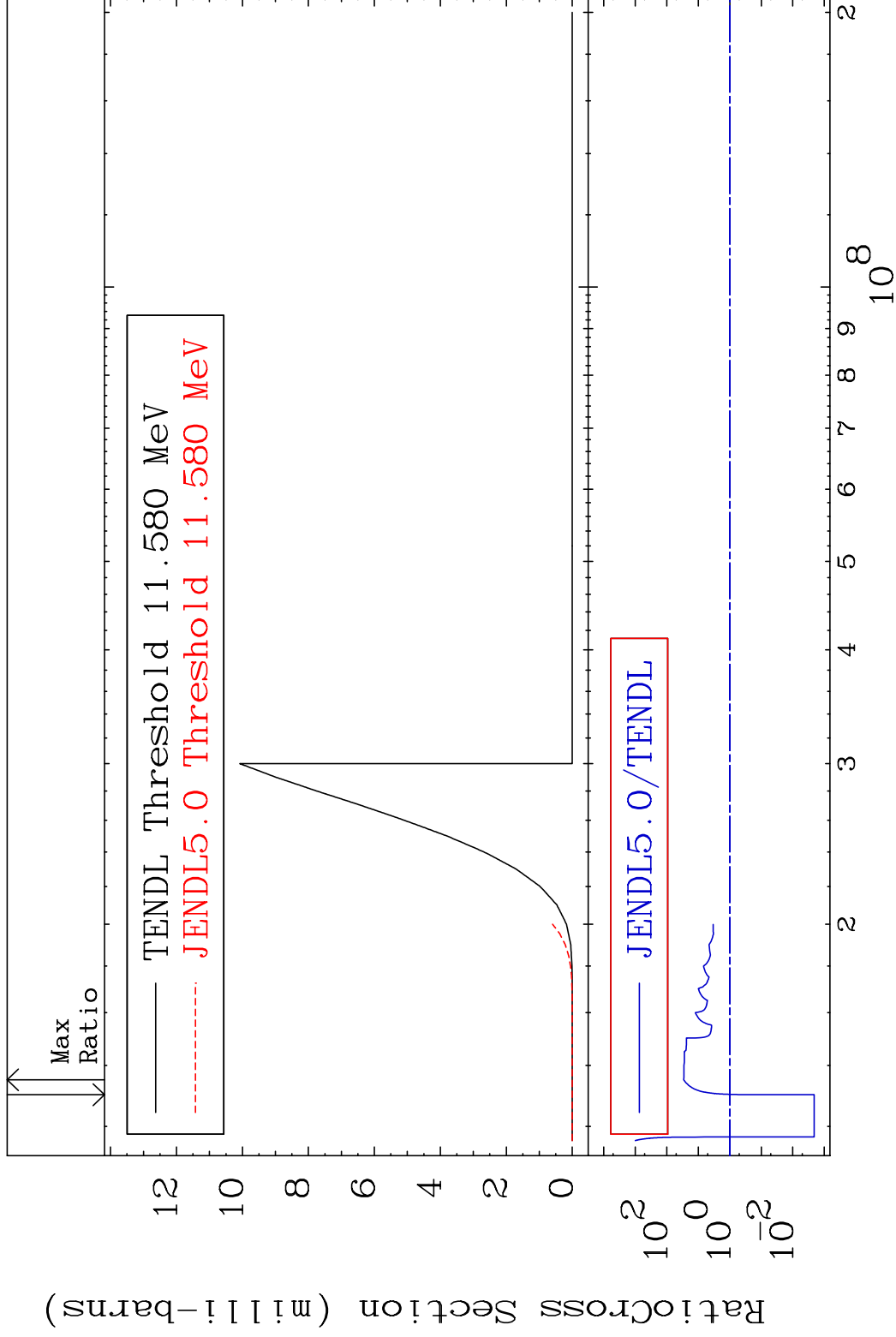
8 9 10⁷ 2 3 4 5 6 7 8 9 10⁸ 2 60-Nd-145

MAT 6034

(n, n') d

60-Nd-145

Cross Section -99.79 To 2803. %

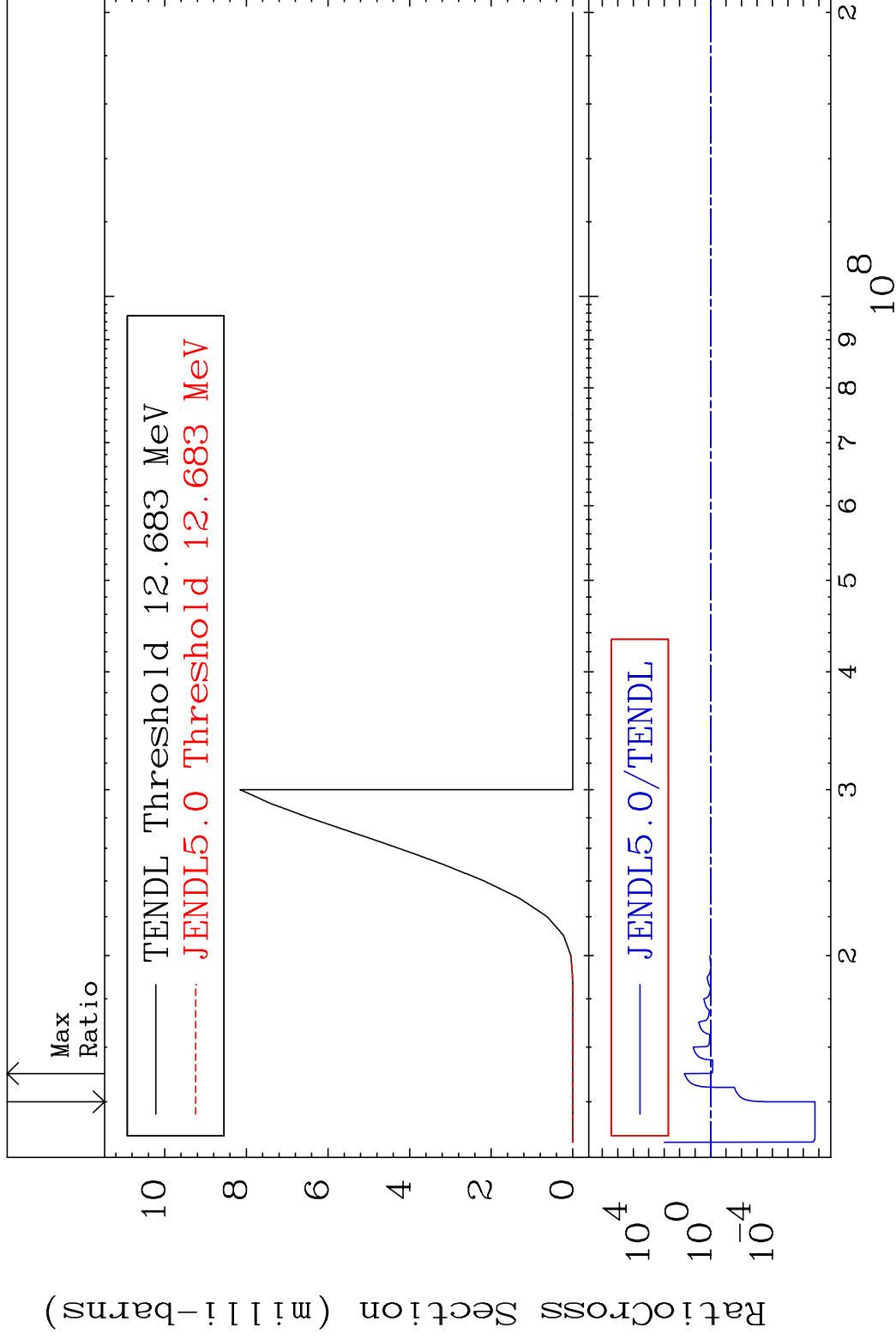


MAT 6034

(n, n') t

60-Nd-145

Cross Section -100.0 To 4894. %



10

Incident Energy (eV)

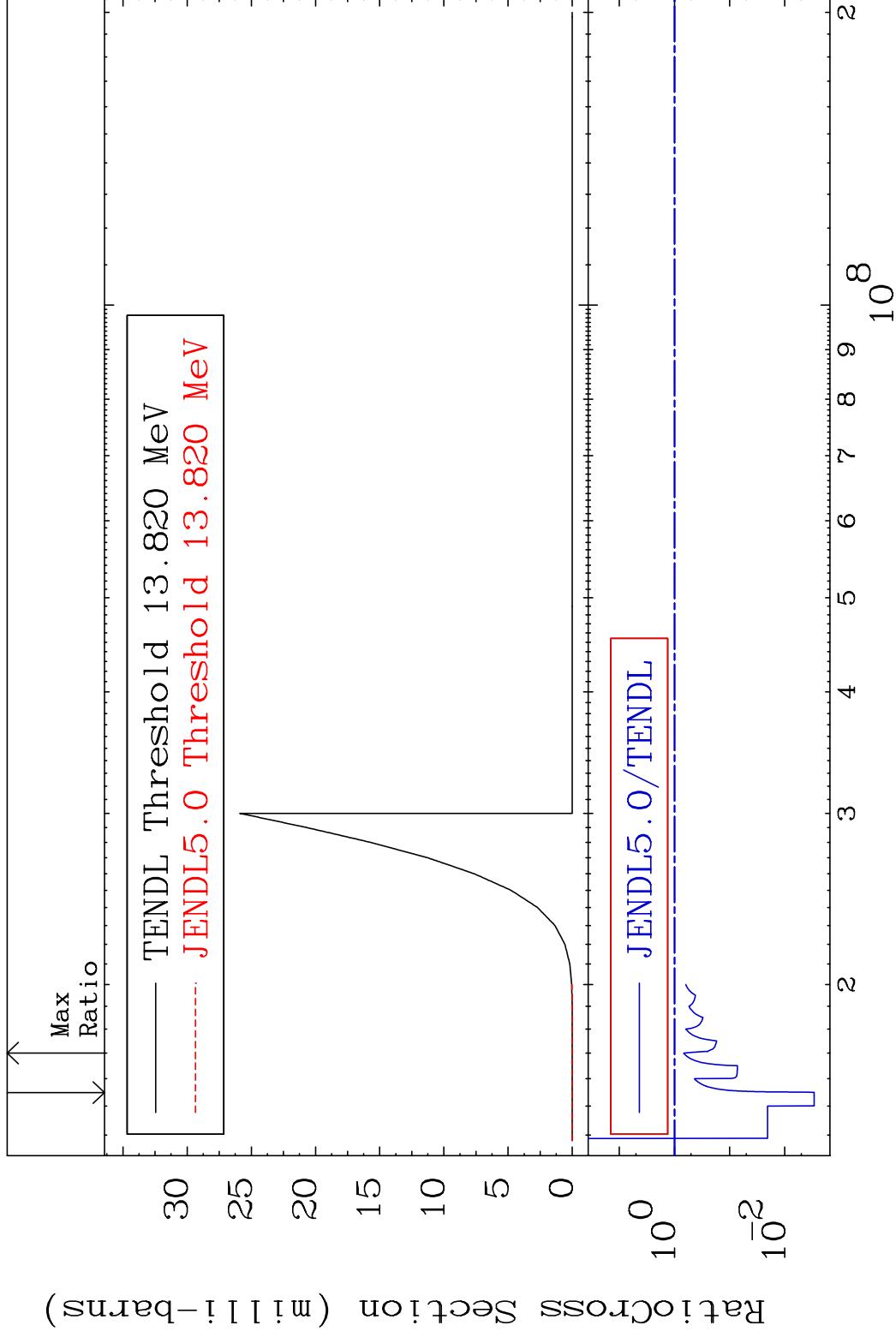
60-Nd-145

MAT 6034

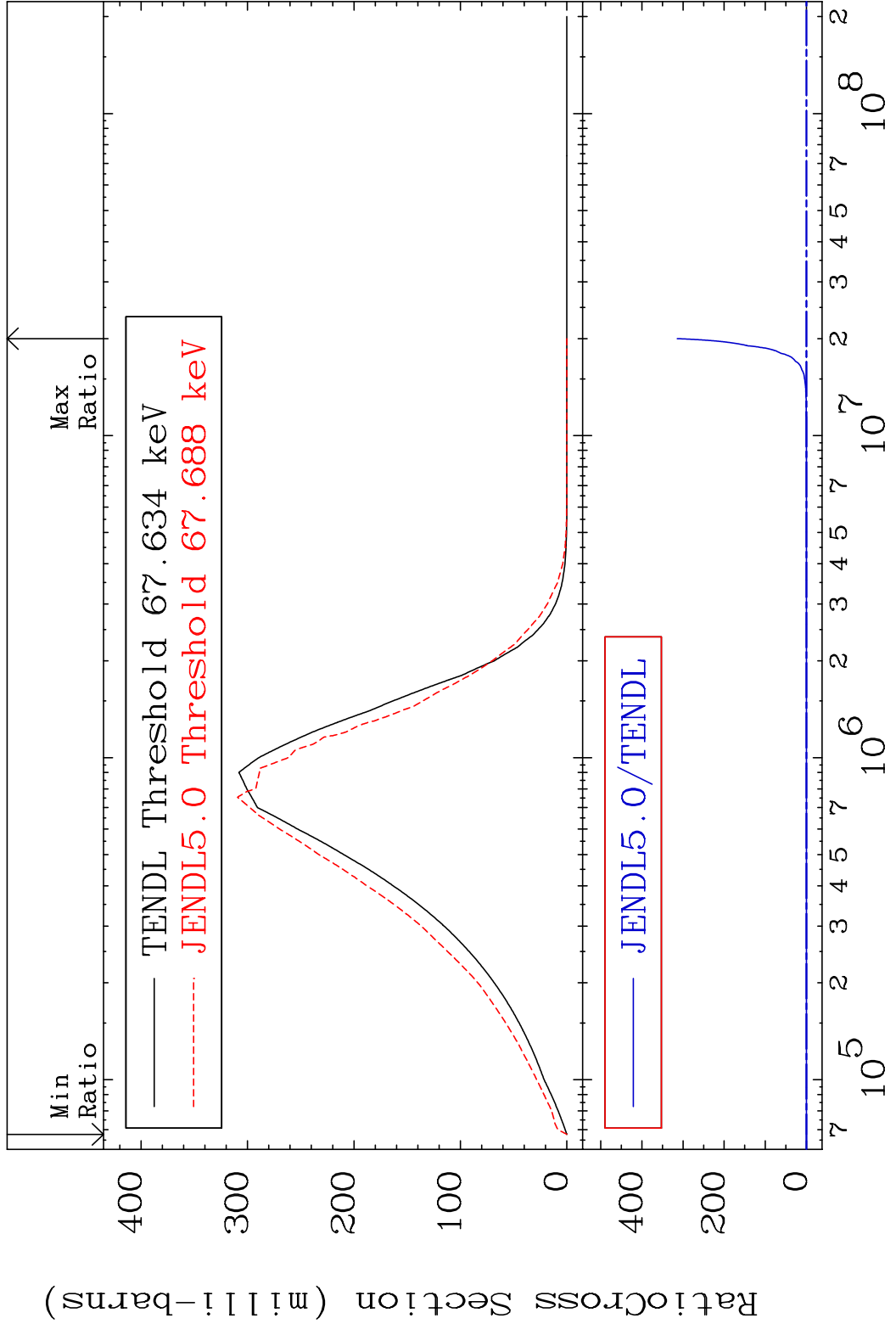
(n,2n) p

60-Nd-145

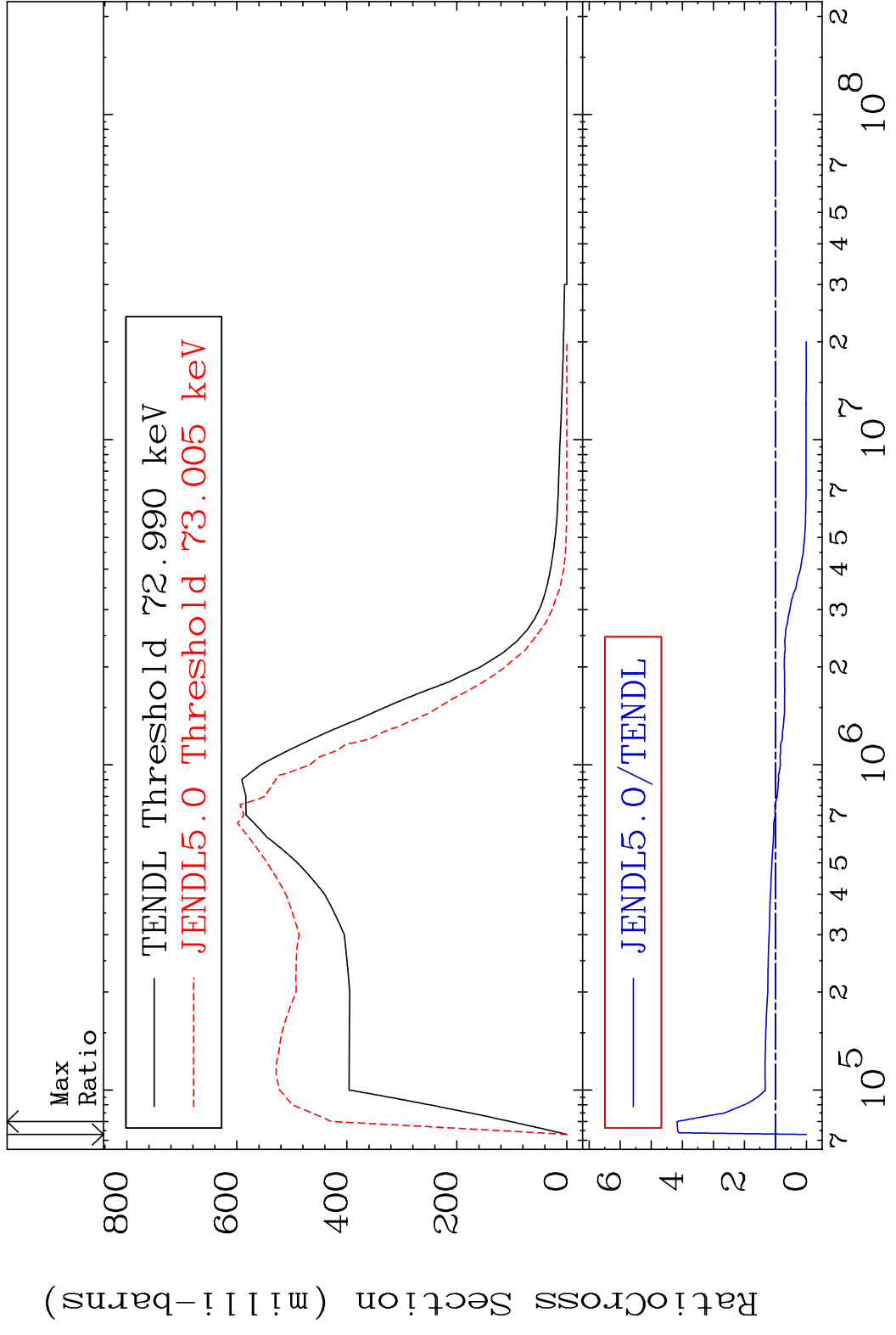
Cross Section -99.71 To -31.86%



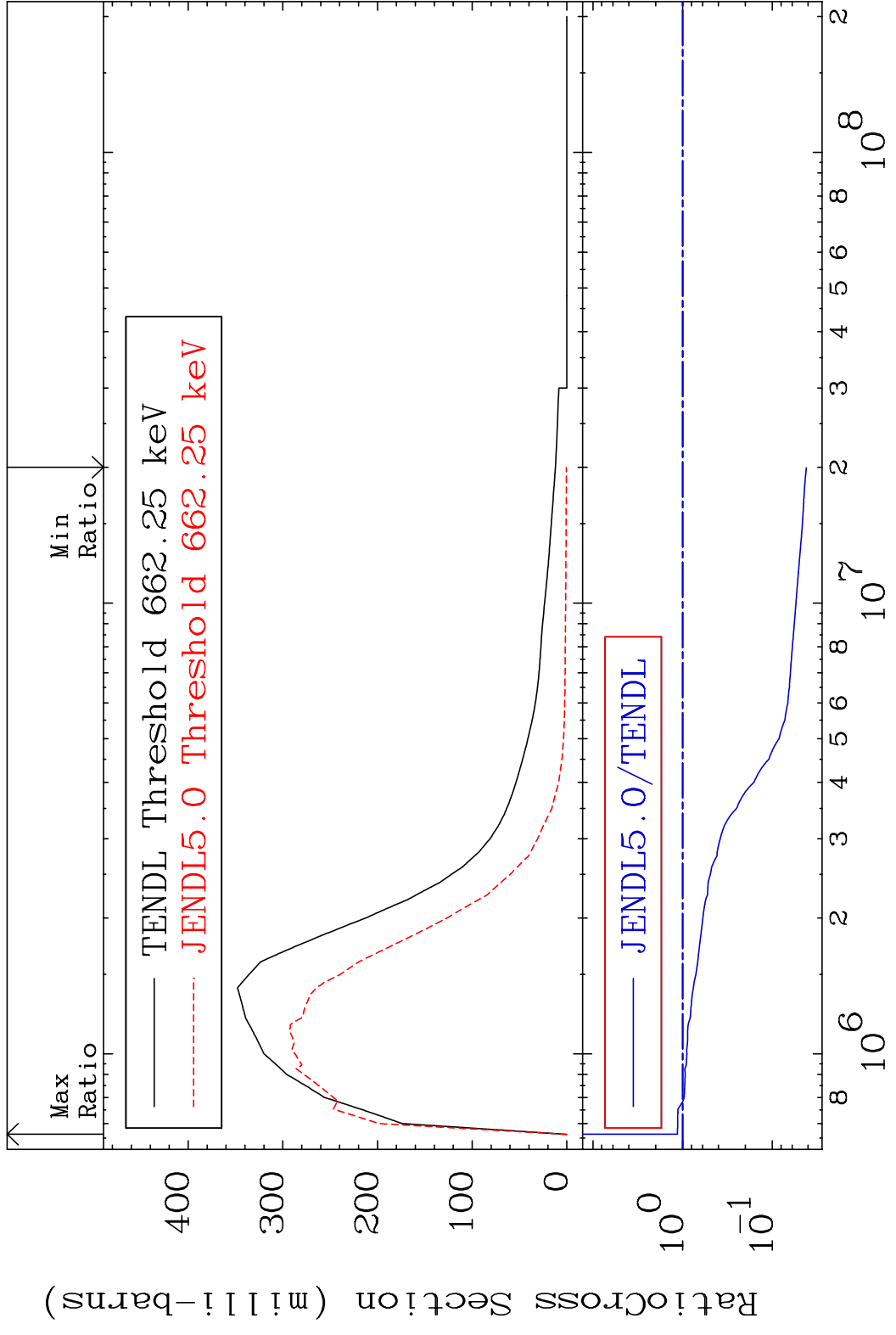
MAT 6034 MT= 51 (n, n') Level 60-Nd-145
 Cross Section -100.0 To 9999. %



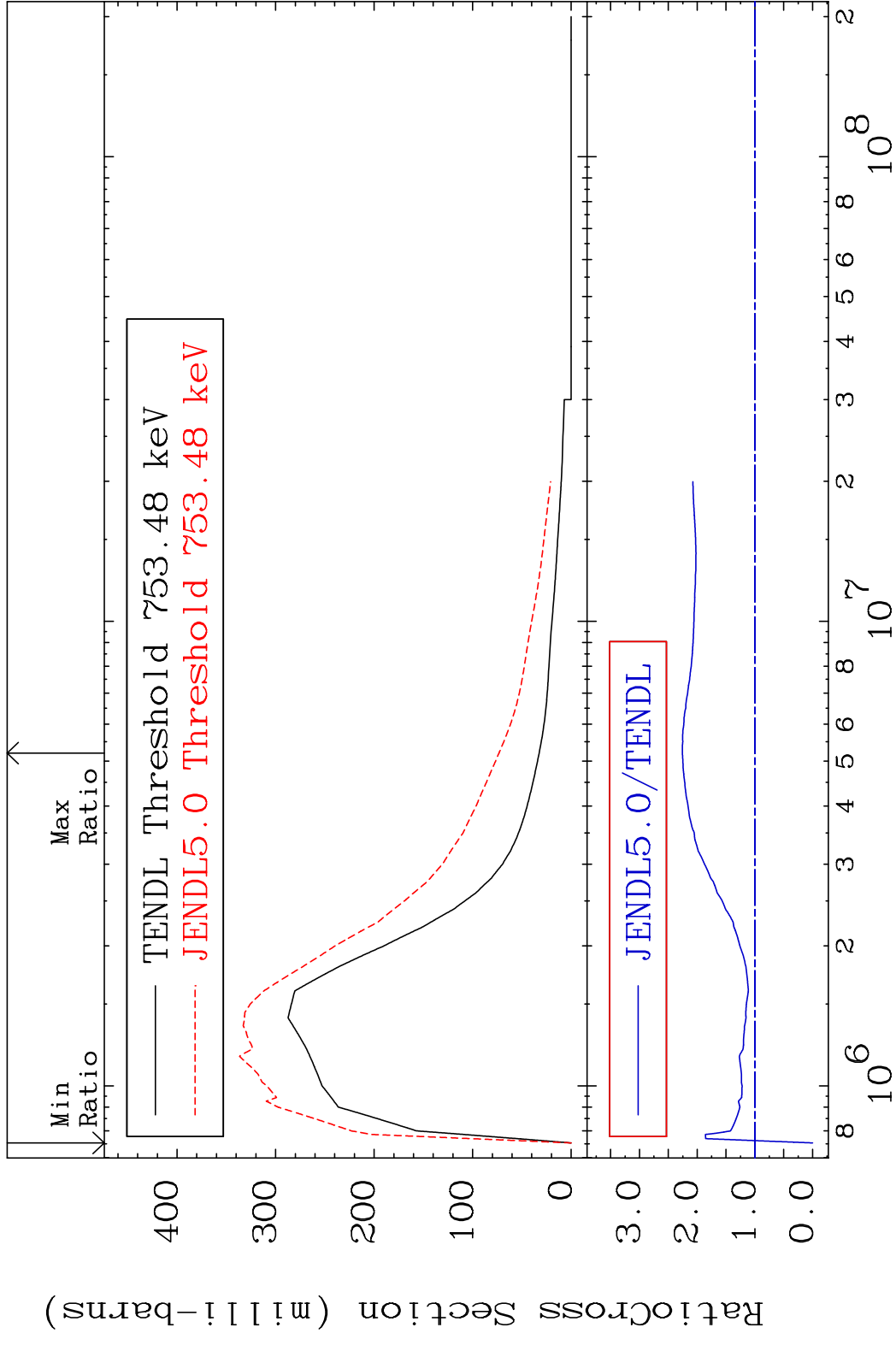
MAT 6034 MT= 52 (n, n') Level 60-Nd-145
 Cross Section -100.0 To 316.5 %



MAT 6034 MT= 53 (n, n') Level 60-Nd-145
 Cross Section -95.83 To 15.22 %

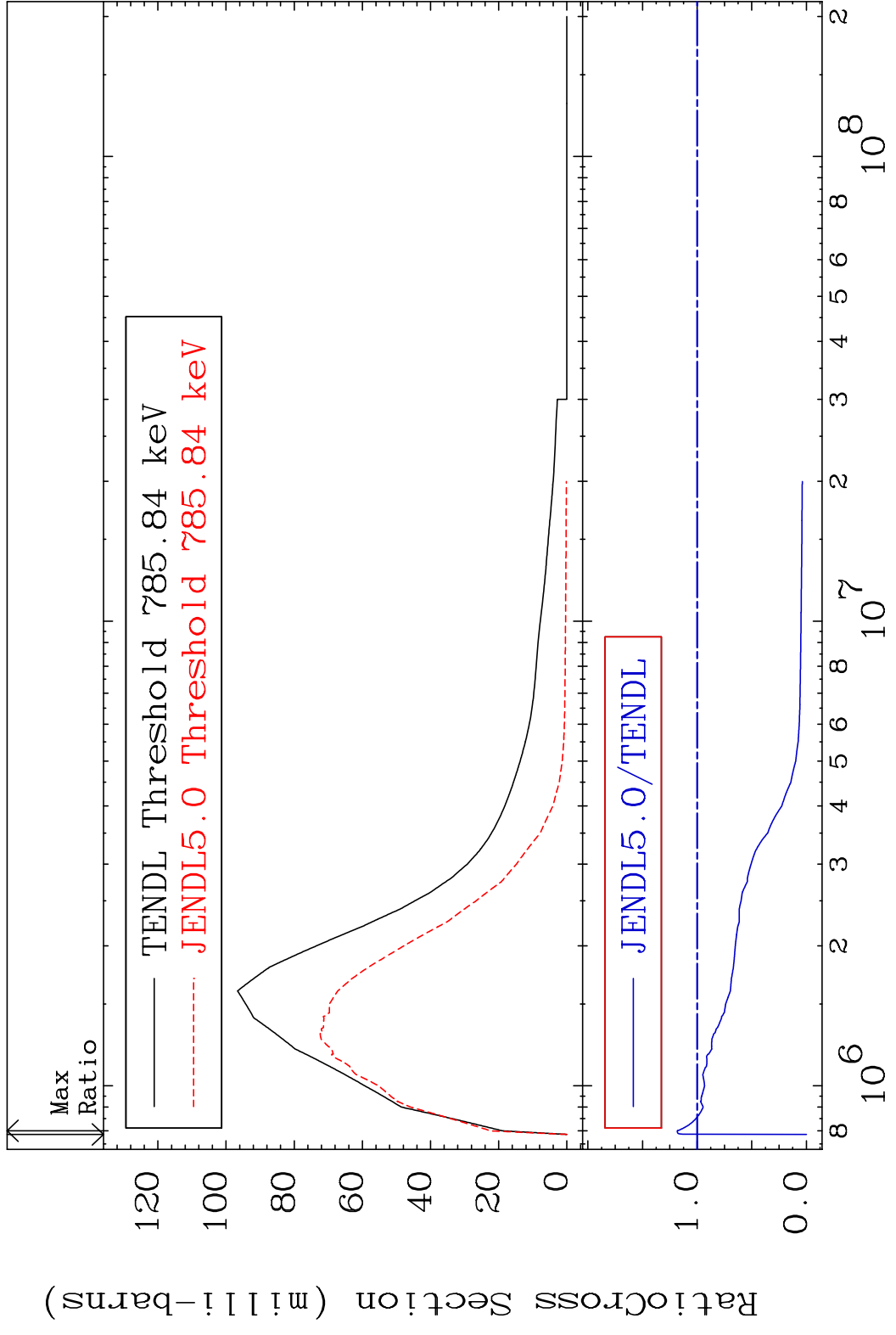


MAT 6034 MT= 54 (n, n') Level 60-Nd-145
 Cross Section -100.0 To 125.7 %

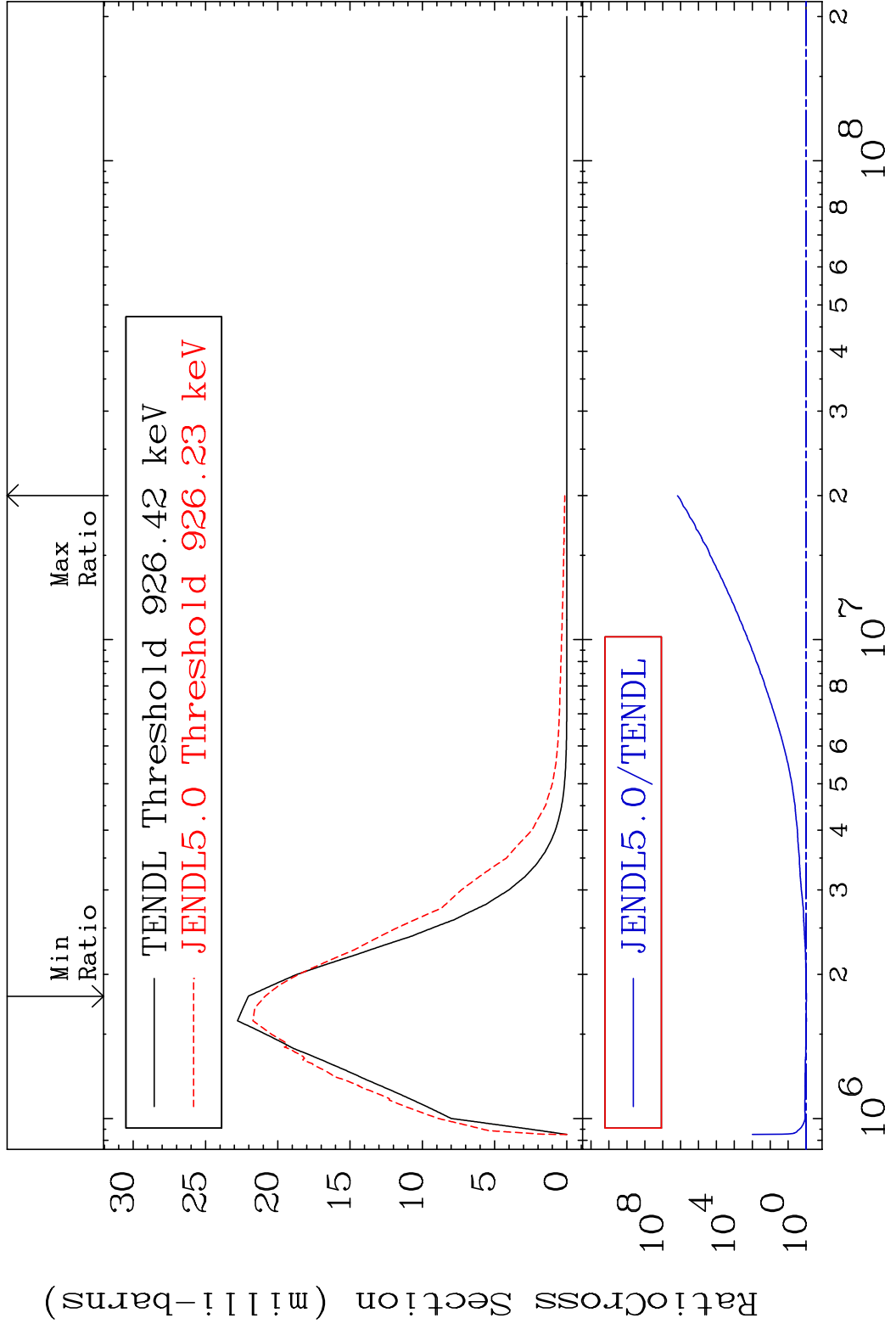


15 Incident Energy (eV) 60-Nd-145

MAT 6034 MT= 55 (n,n') Level 60-Nd-145
 Cross Section -100.0 To 18.27 %

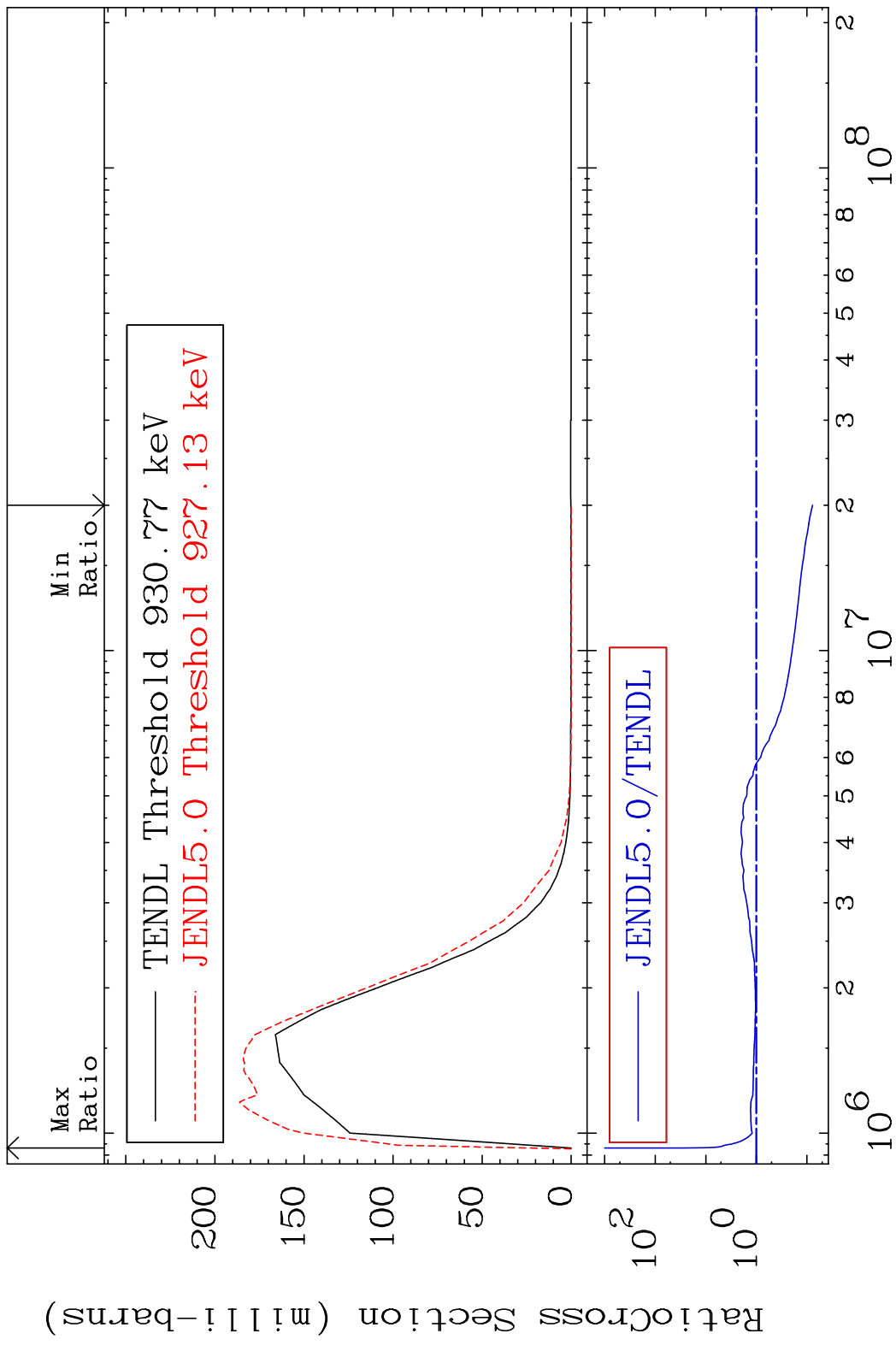


MAT 6034 MT= 56 (n, n') Level 60-Nd-145
 Cross Section -5.258 To 9999. %



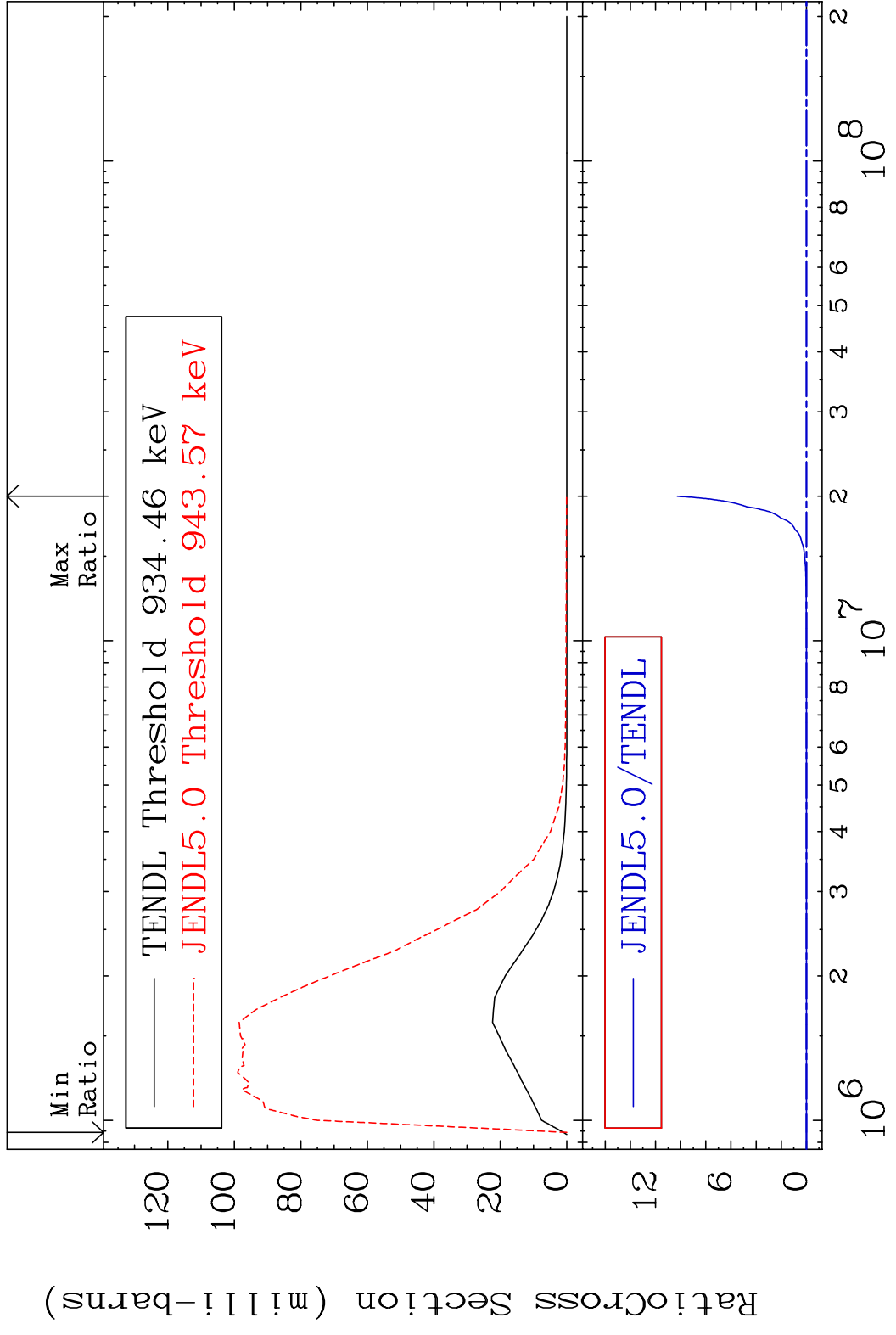
17 Incident Energy (eV) 60-Nd-145

MAT 6034 MT= 57 (n, n') Level 60-Nd-145
 Cross Section -92.25 To 2804. %



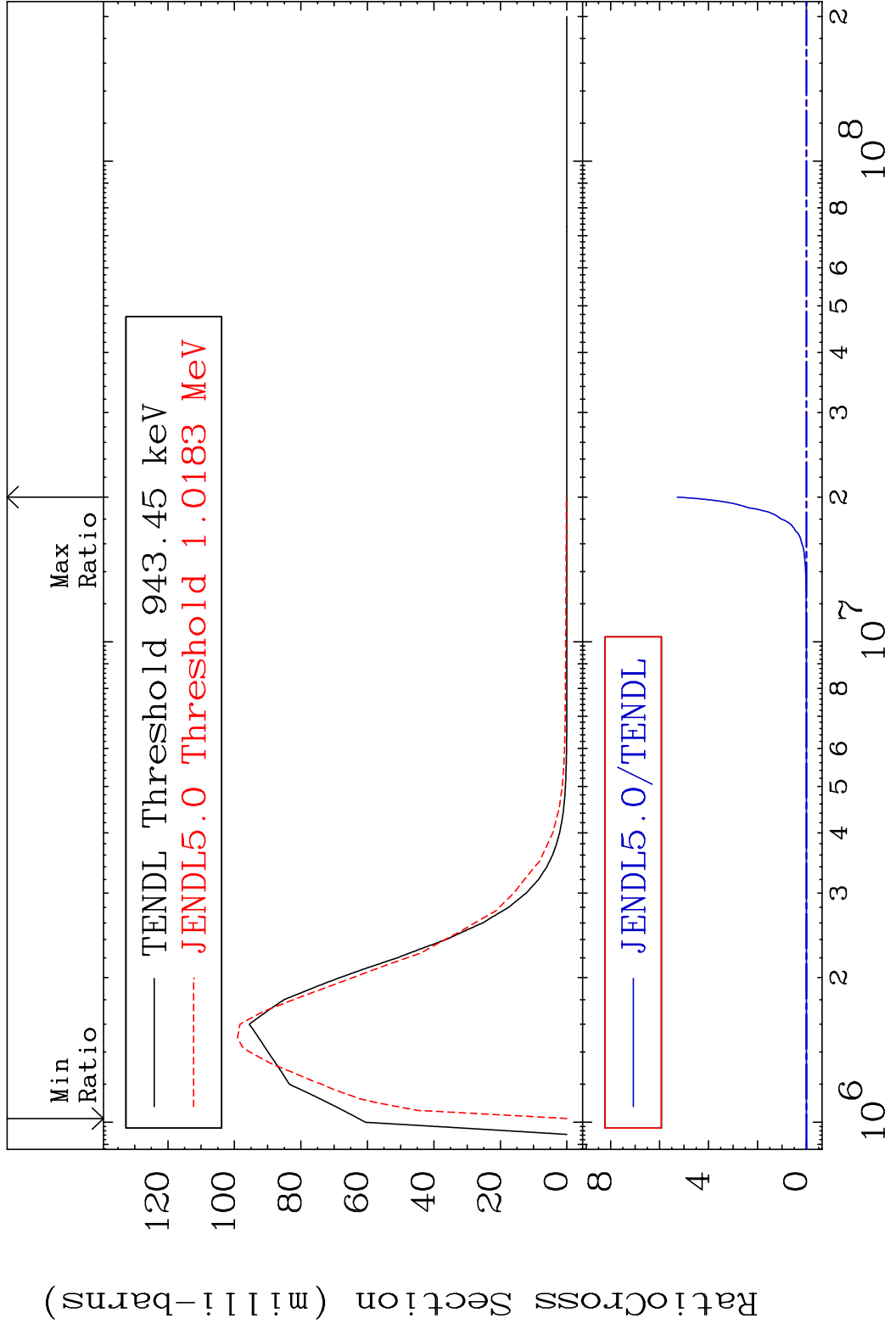
18 Incident Energy (eV) 60-Nd-145

MAT 6034 MT= 58 (n, n') Level 60-Nd-145
 Cross Section -100.0 To 9999. %



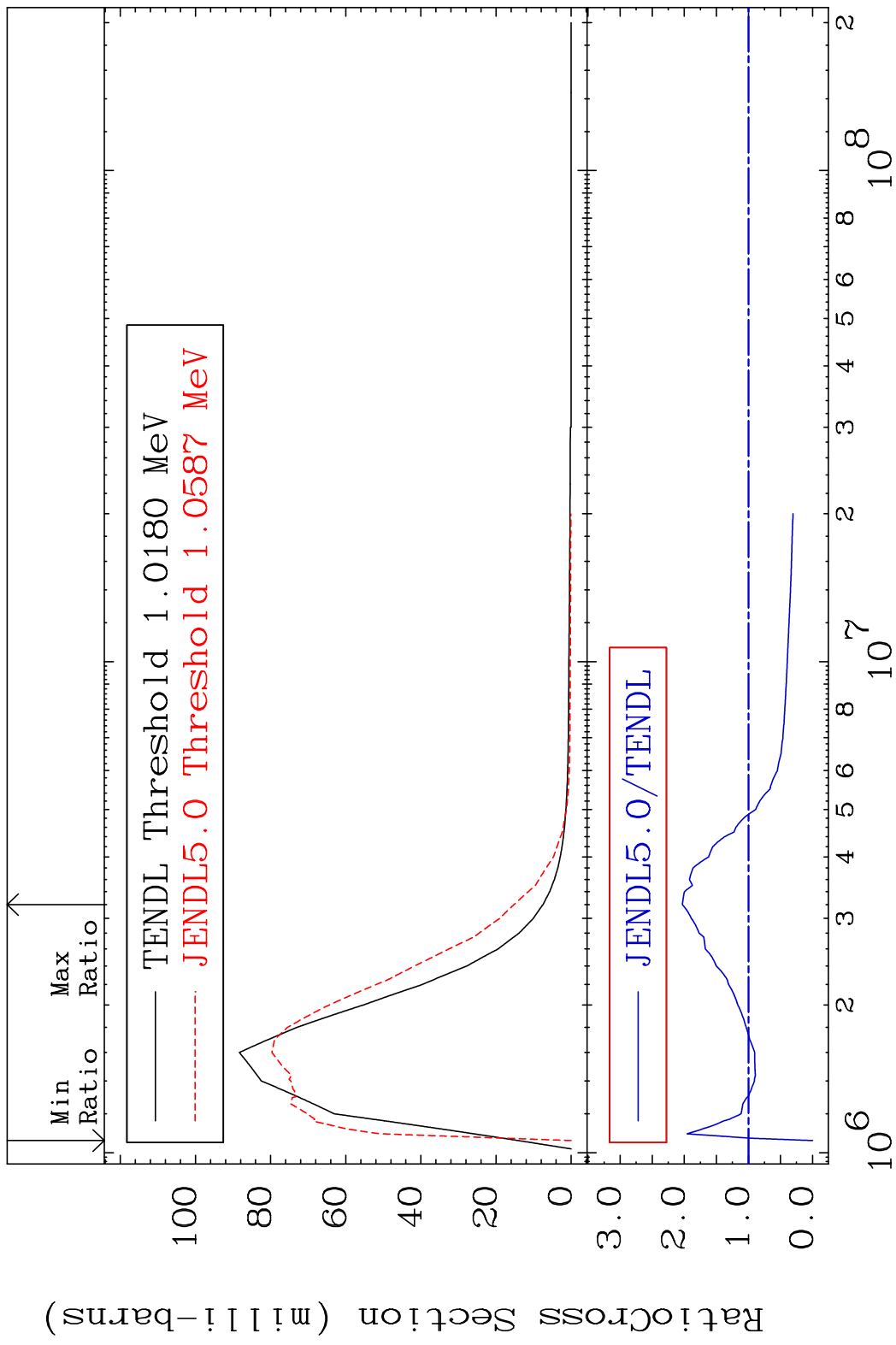
19 Incident Energy (eV) 60-Nd-145

MAT 6034 MT= 59 (n, n') Level 60-Nd-145
Cross Section -100.0 To 9999. %

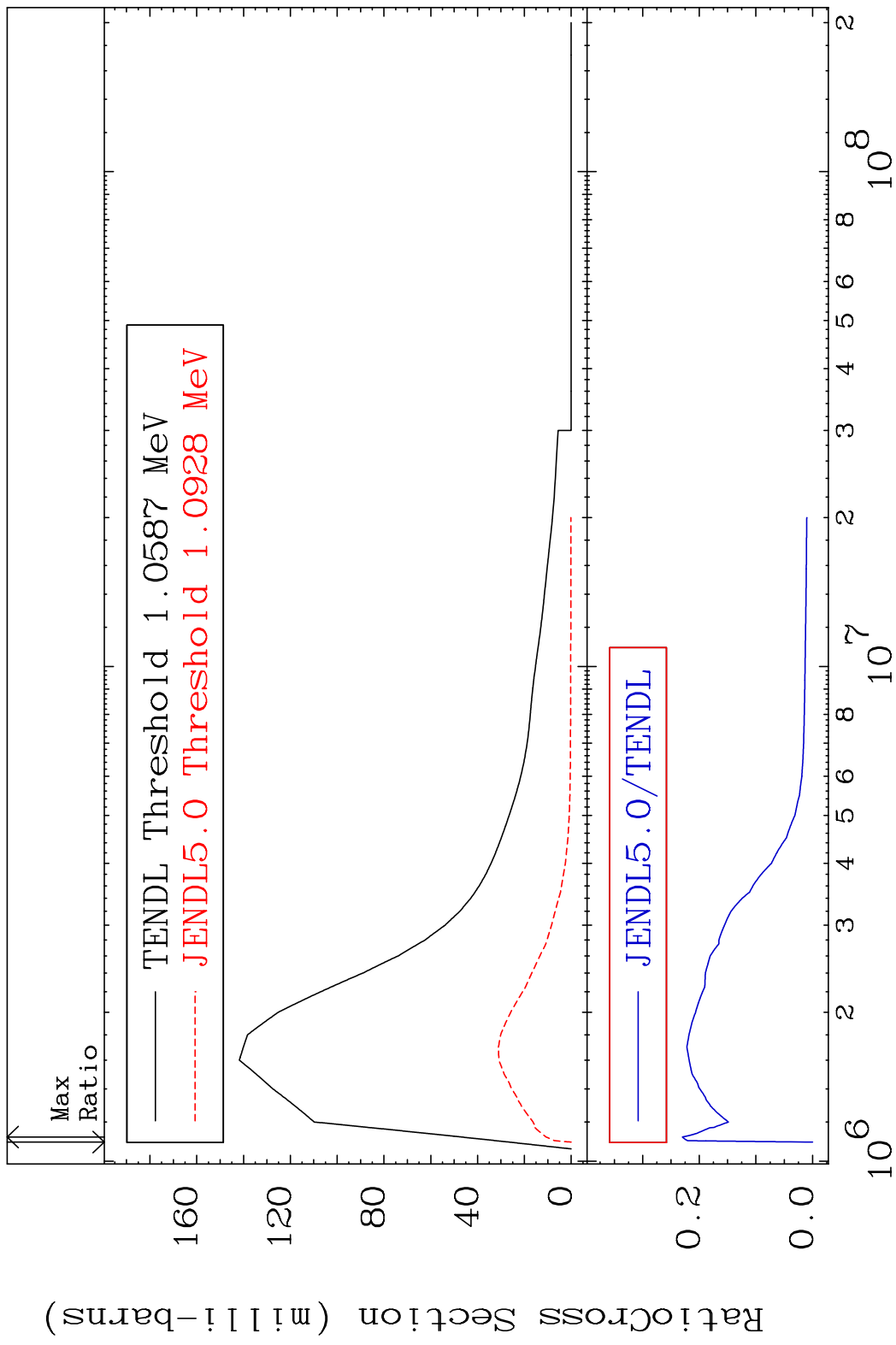


20 10⁶ 2 3 4 5 6 8 10⁷ 2 3 4 5 6 8 10⁸ 20

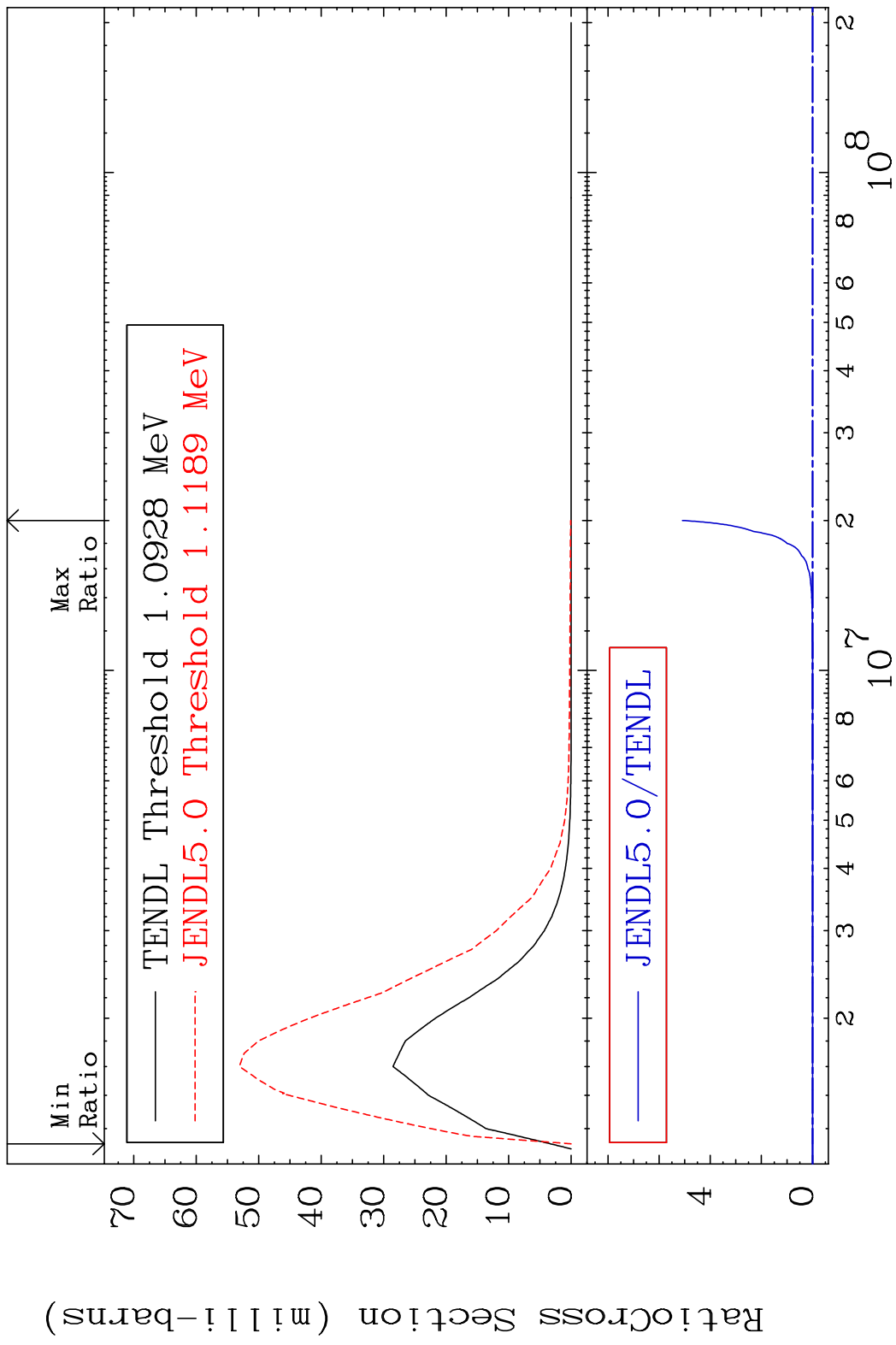
MAT 6034 MT= 60 (n,n') Level 60-Nd-145
 Cross Section -100.0 To 103.0 %



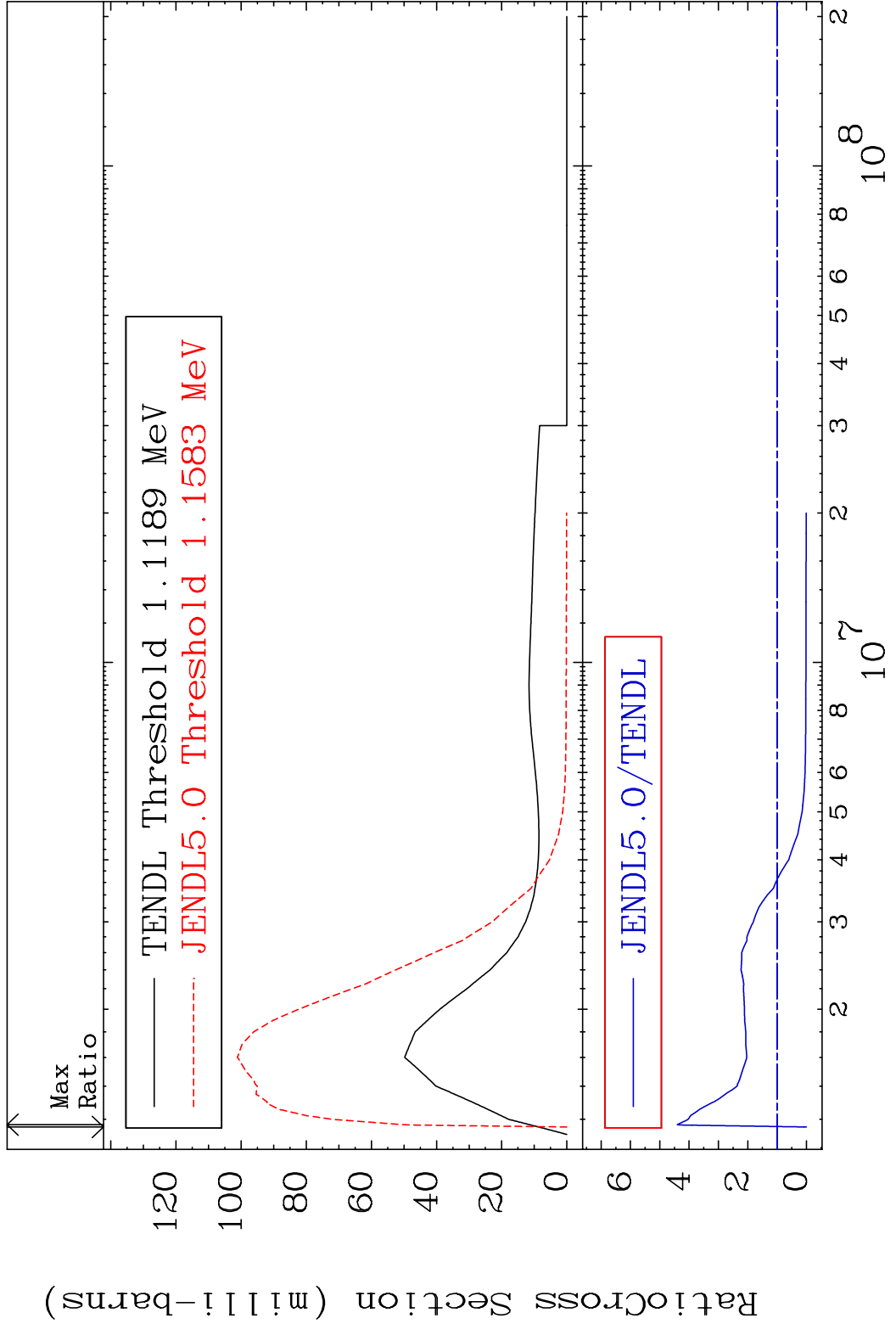
MAT 6034 MT= 61 (n,n') Level 60-Nd-145
 Cross Section -100.0 To -77.01%



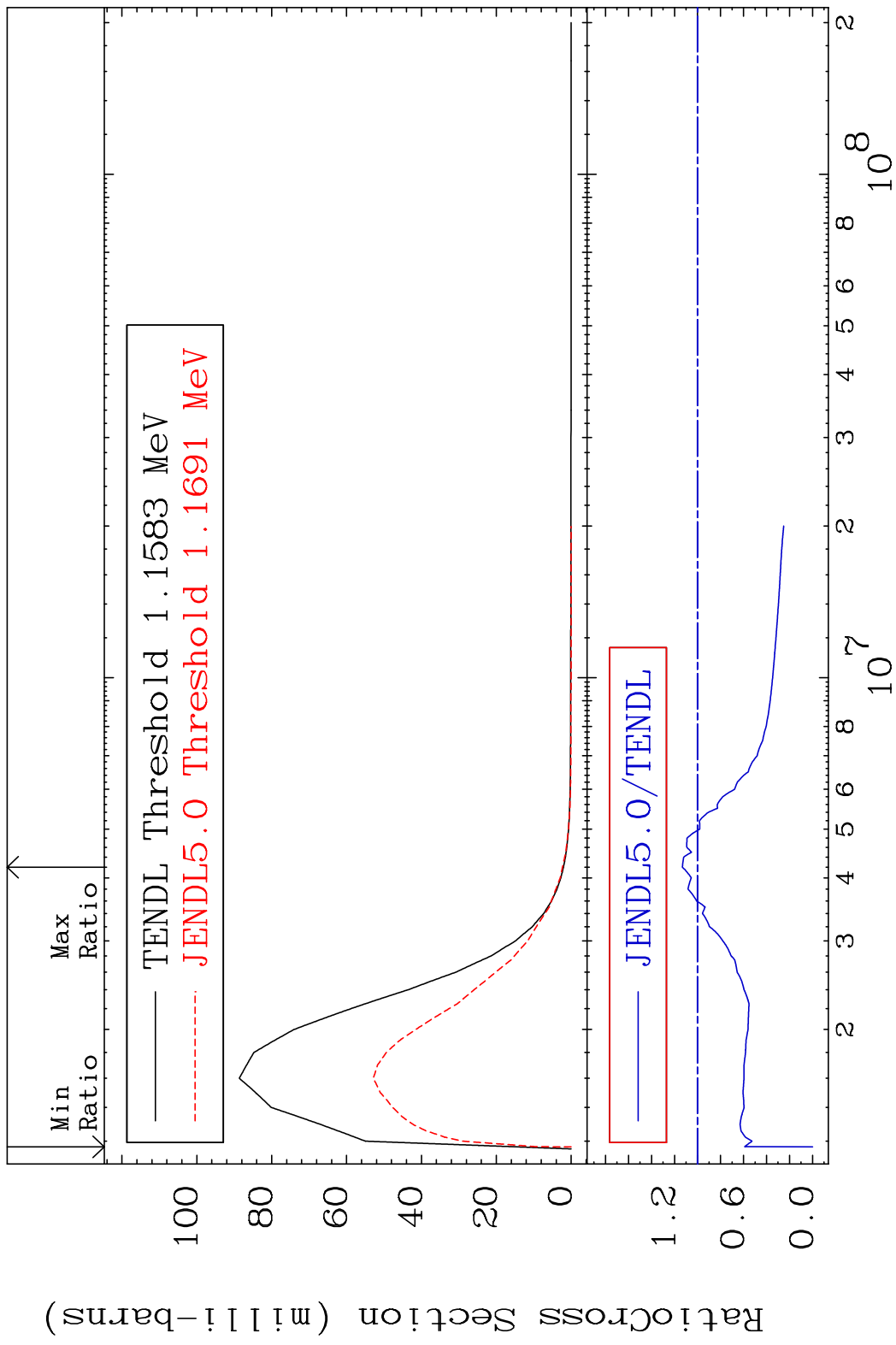
MAT 6034 MT= 62 (n, n') Level 60-Nd-145
 Cross Section -100.0 To 9999. %



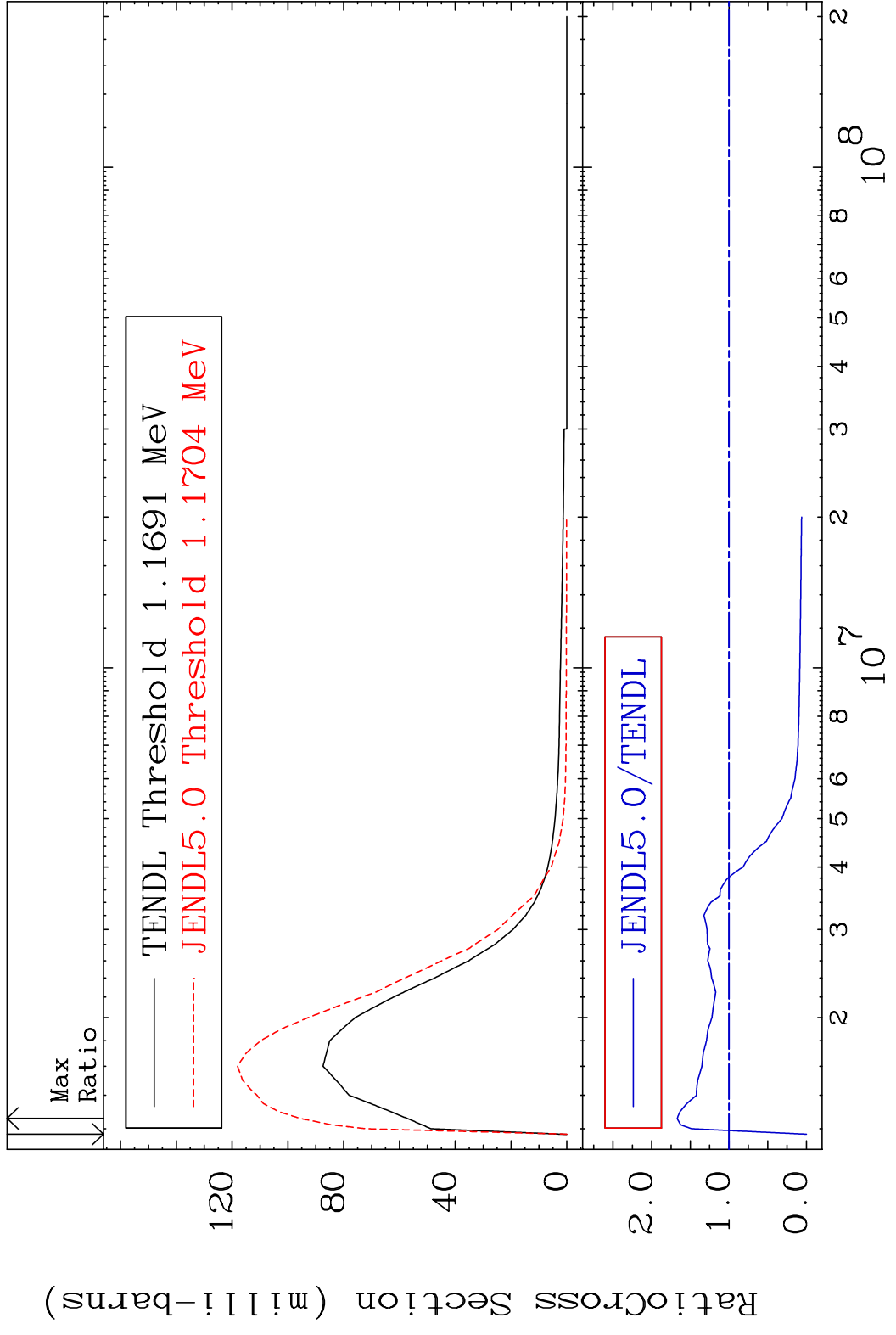
MAT 6034 MT= 63 (n, n') Level 60-Nd-145
 Cross Section -100.0 To 340.6 %



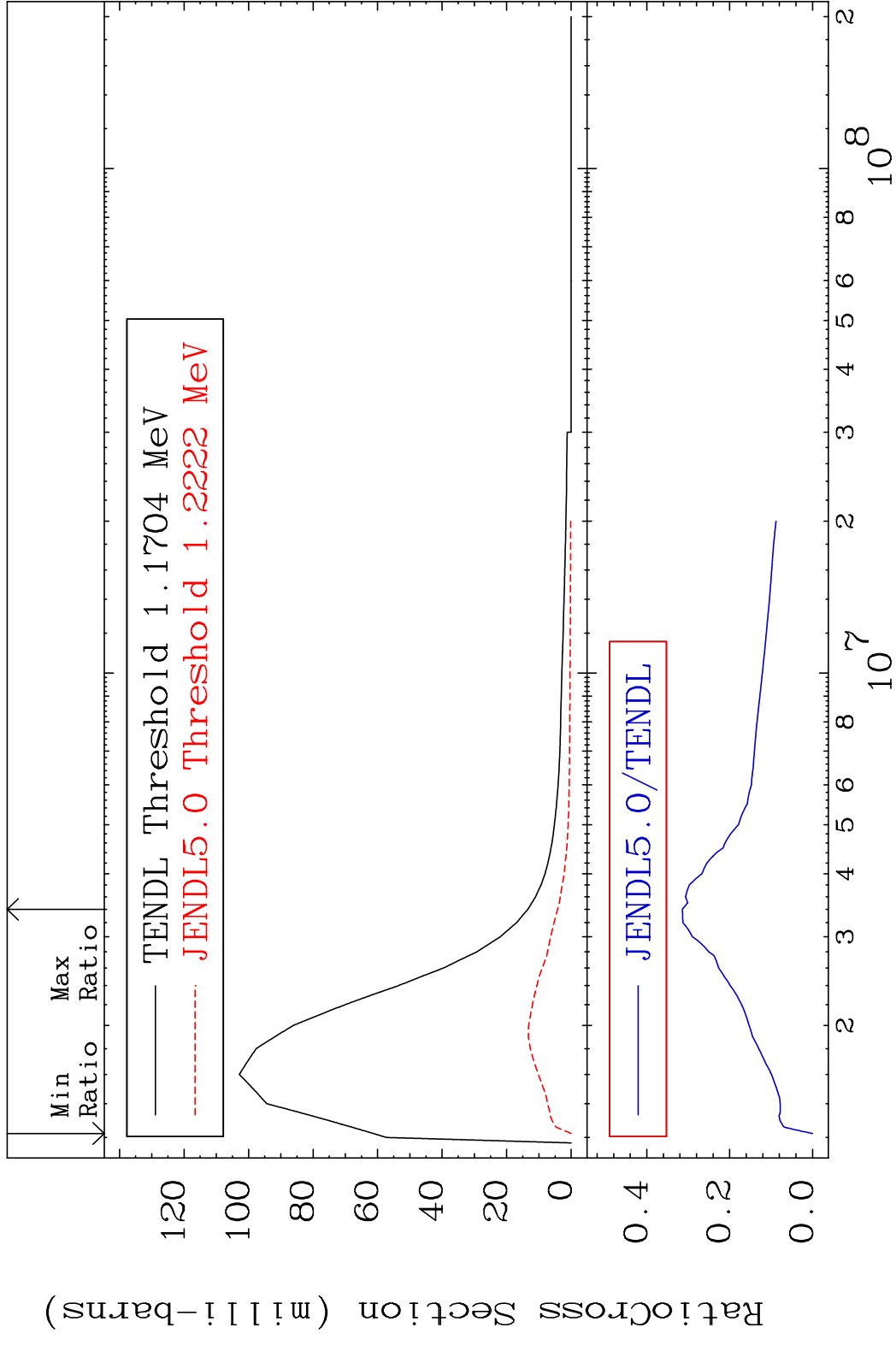
MAT 6034 MT= 64 (n, n') Level 60-Nd-145
 Cross Section -100.0 To 13.20 %



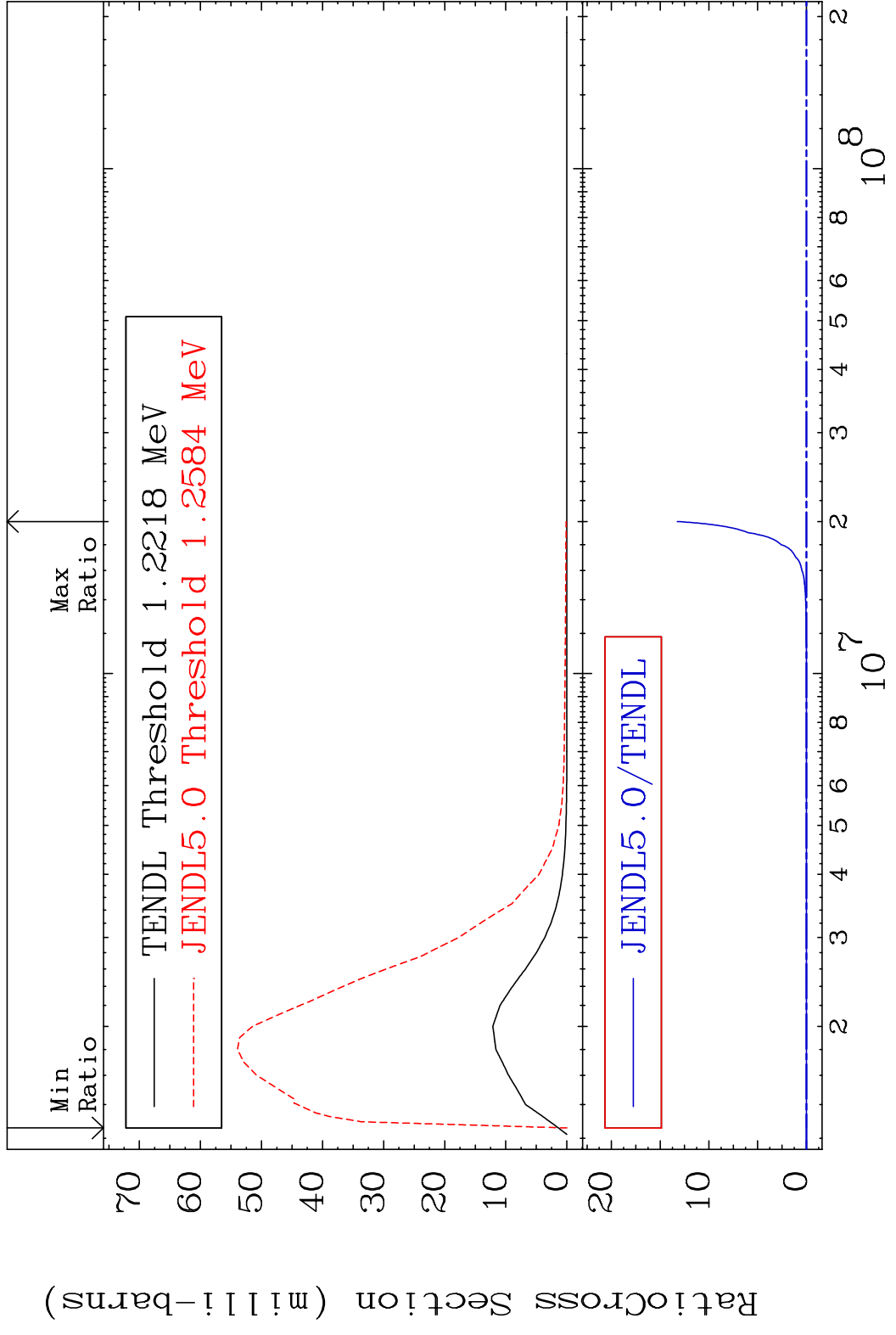
MAT 6034 MT= 65 (n, n') Level 60-Nd-145
 Cross Section -100.0 To 67.01 %



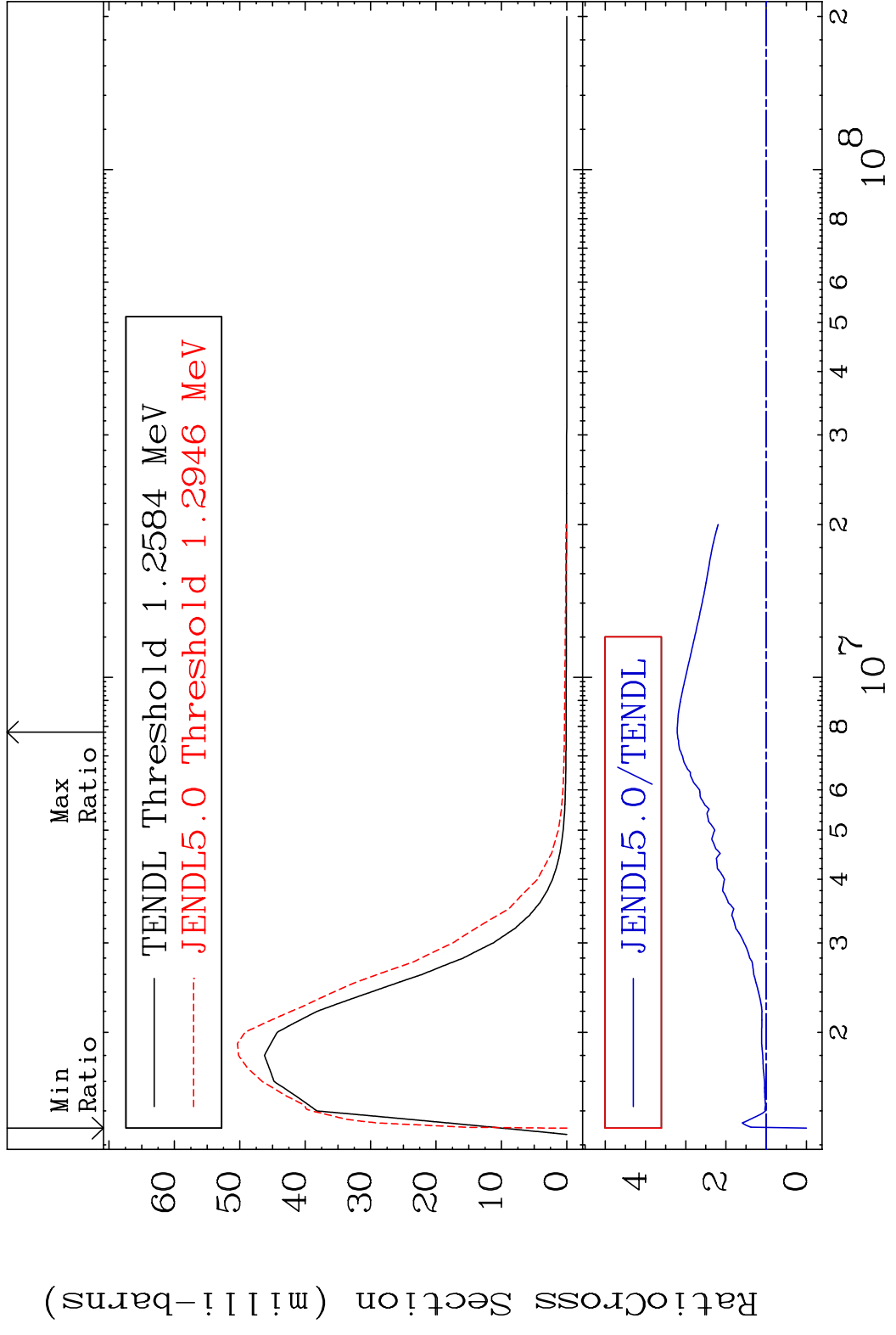
MAT 6034 MT= 66 (n, n') Level 60-Nd-145
 Cross Section -100.0 To -68.57%



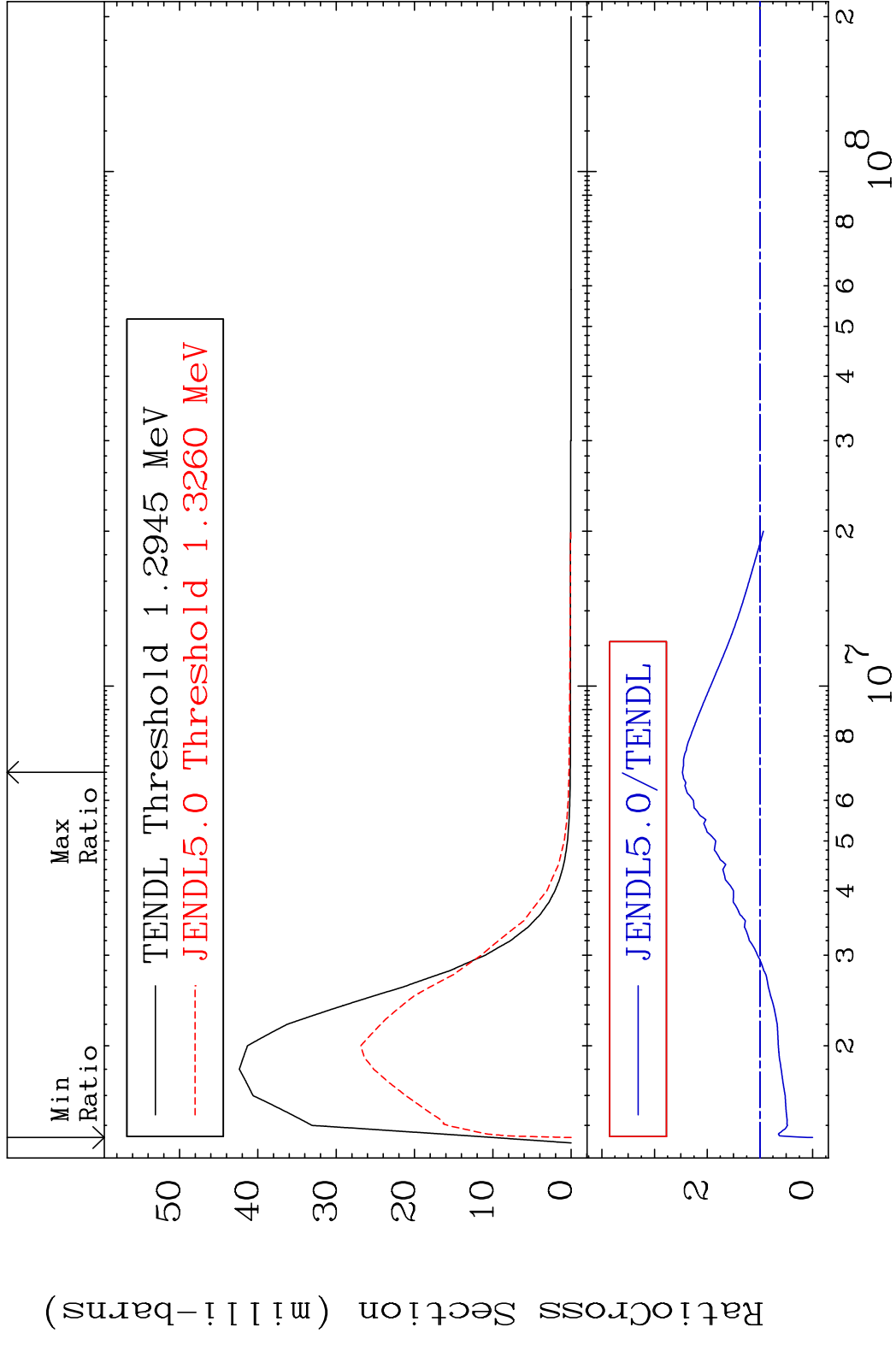
MAT 6034 MT= 67 (n, n') Level 60-Nd-145
 Cross Section -100.0 To 9999. %



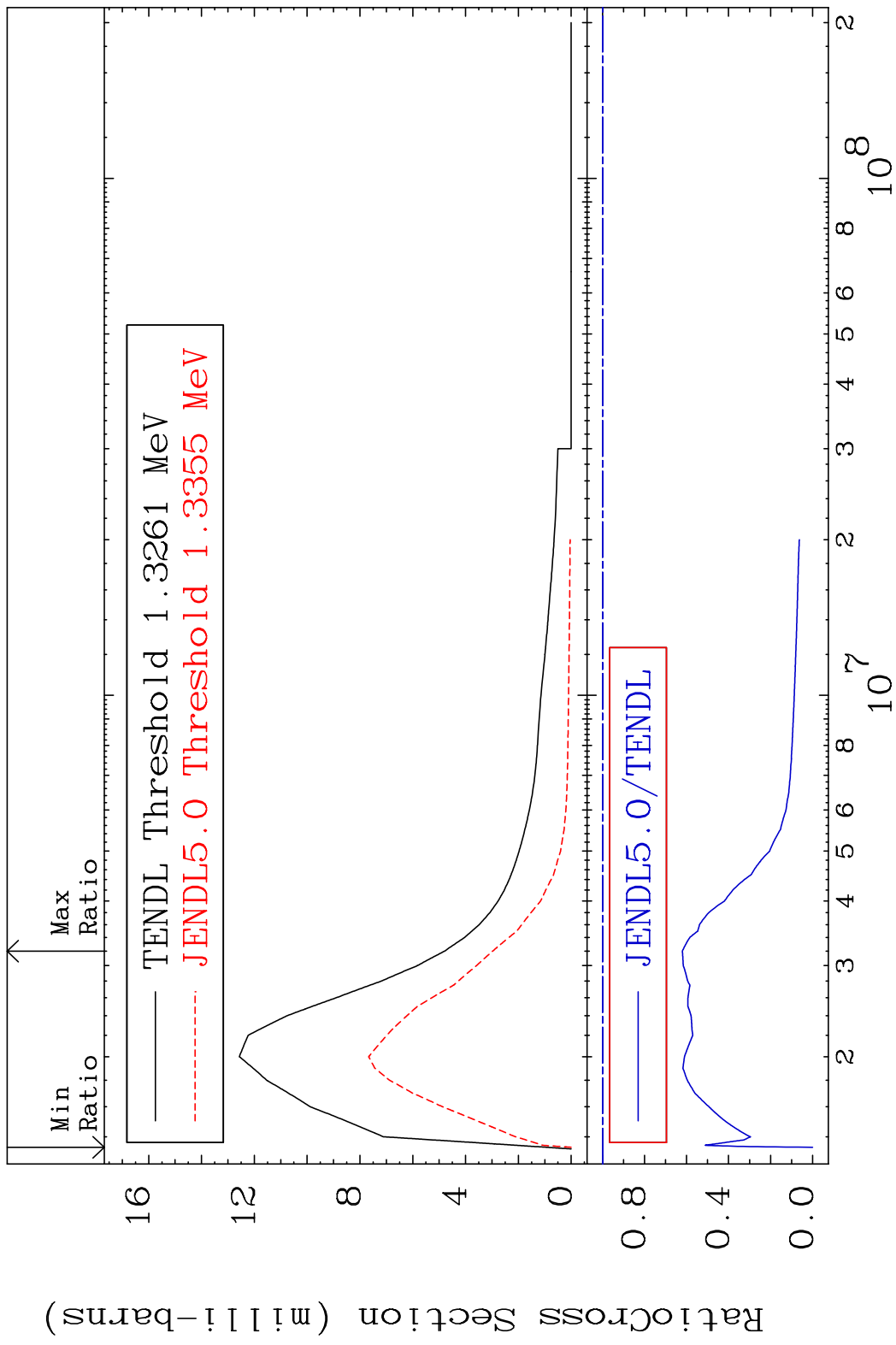
MAT 6034 MT= 68 (n, n') Level 60-Nd-145
 Cross Section -100.0 To 221.2 %



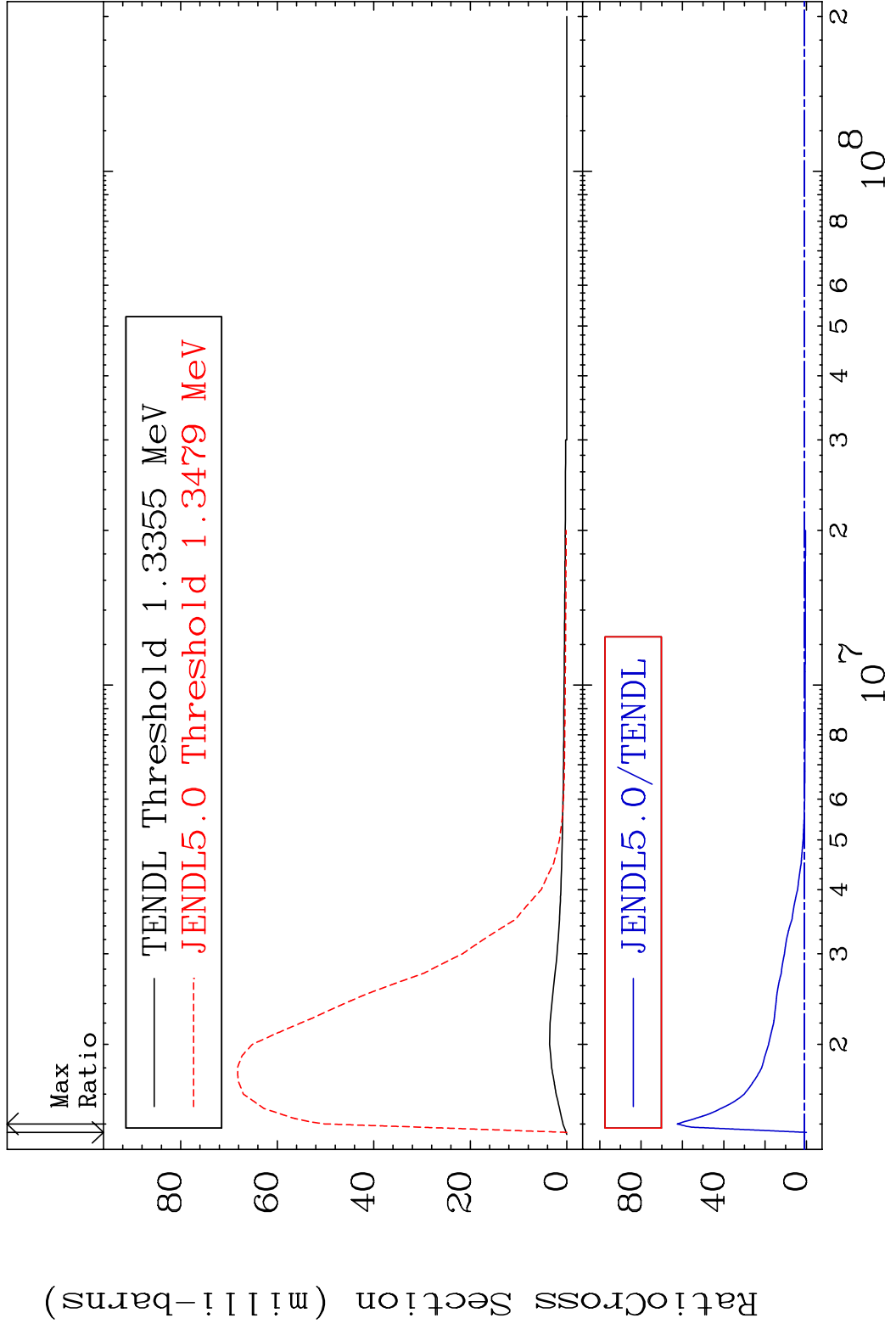
MAT 6034 MT= 69 (n, n') Level 60-Nd-145
 Cross Section -100.0 To 147.1 %



MAT 6034 MT= 70 (n,n') Level 60-Nd-145
 Cross Section -100.0 To -37.99%

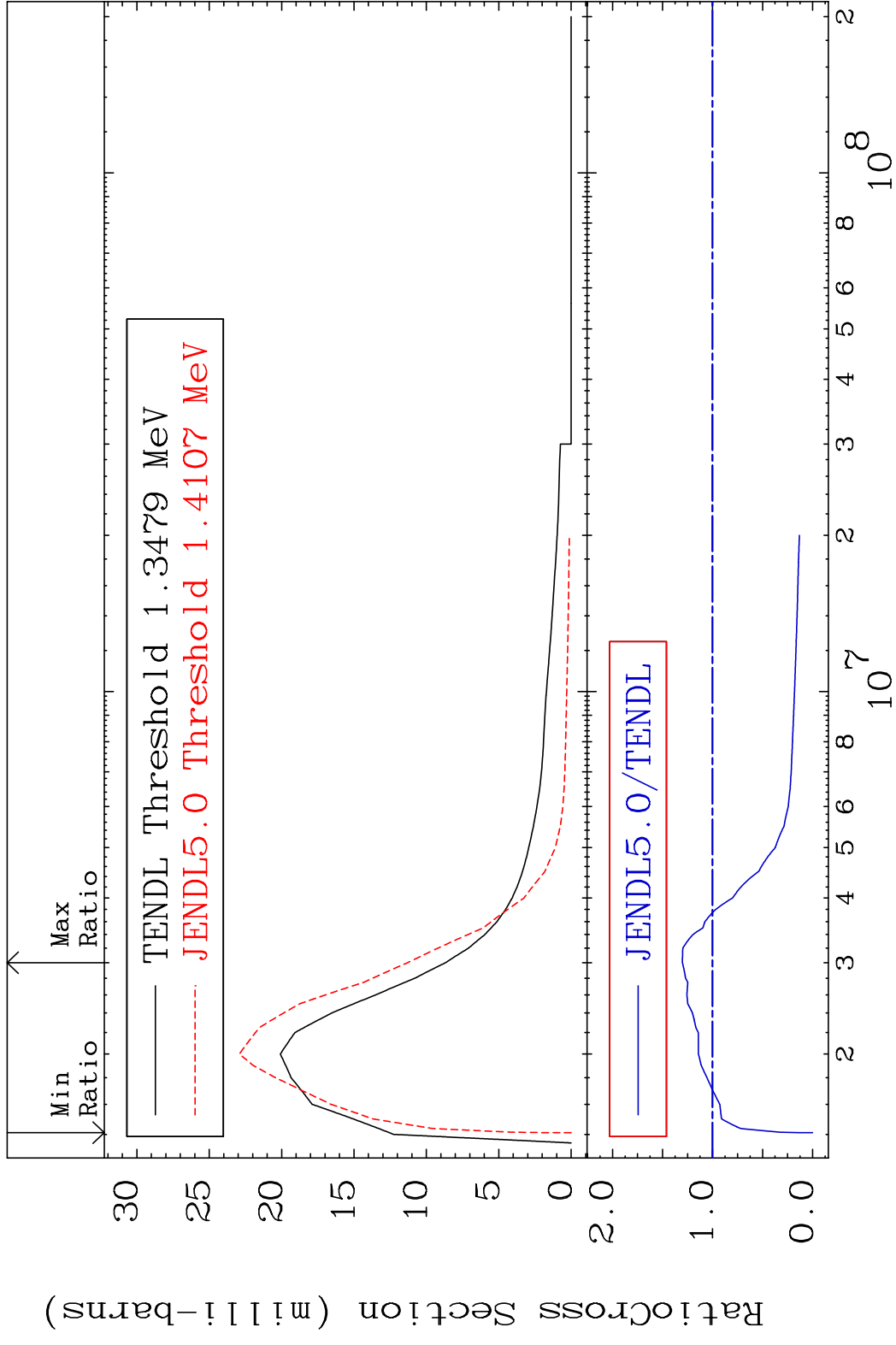


MAT 6034 MT= 71 (n, n') Level 60-Nd-145
 Cross Section -100.0 To 6153. %

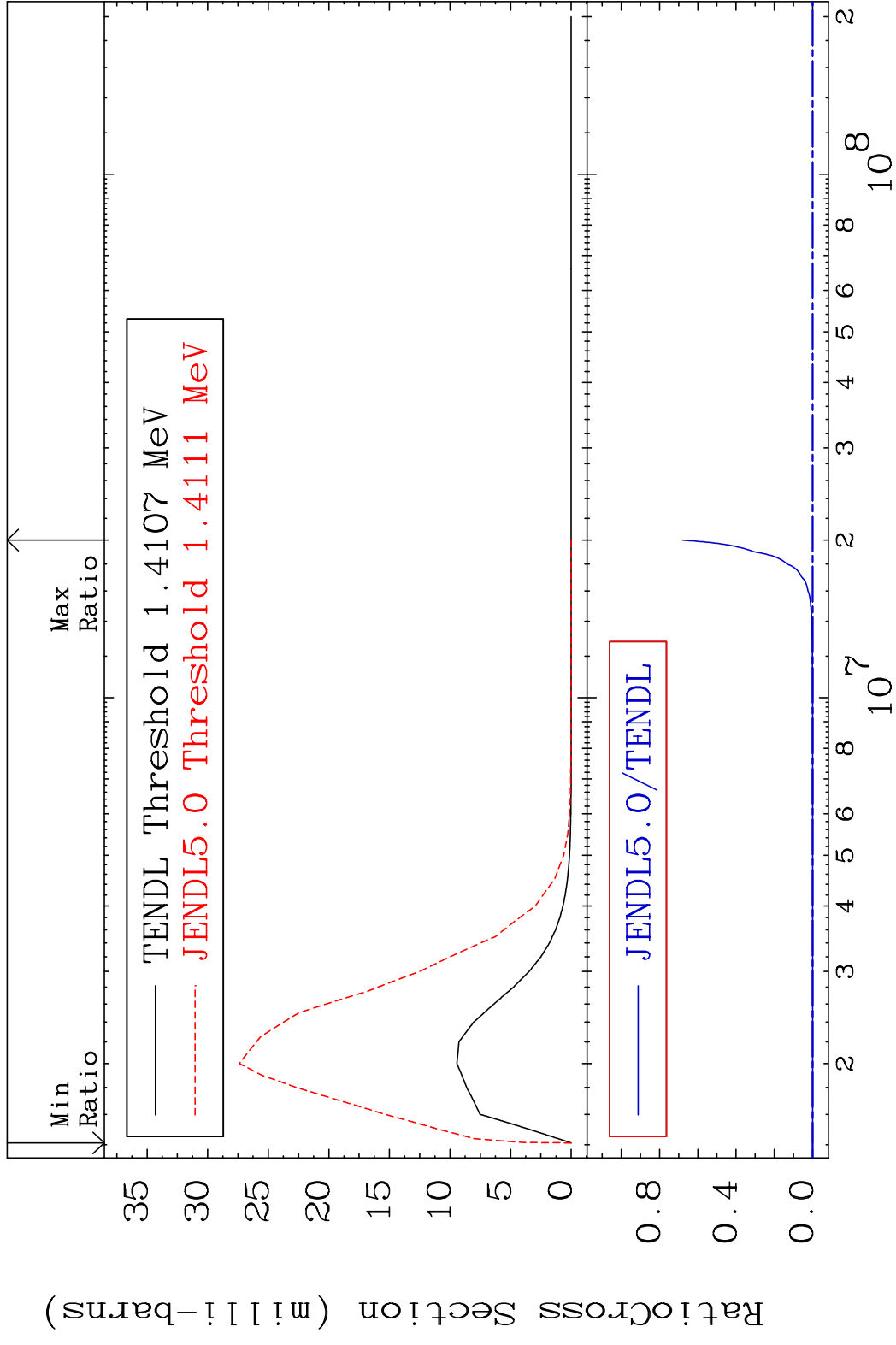


32 Incident Energy (eV) 60-Nd-145

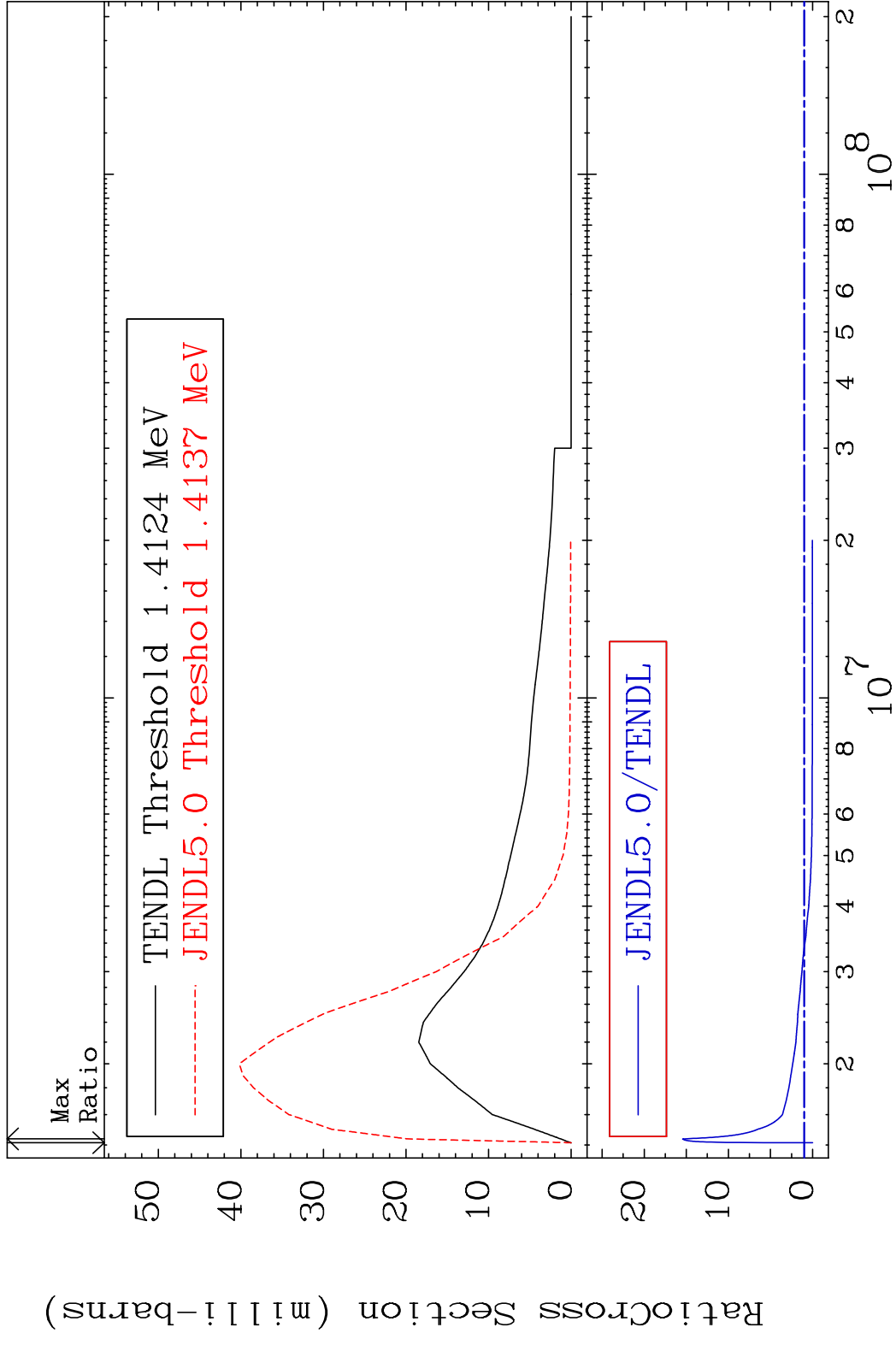
MAT 6034 MT= 72 (n, n') Level 60-Nd-145
 Cross Section -100.0 To 30.21 %



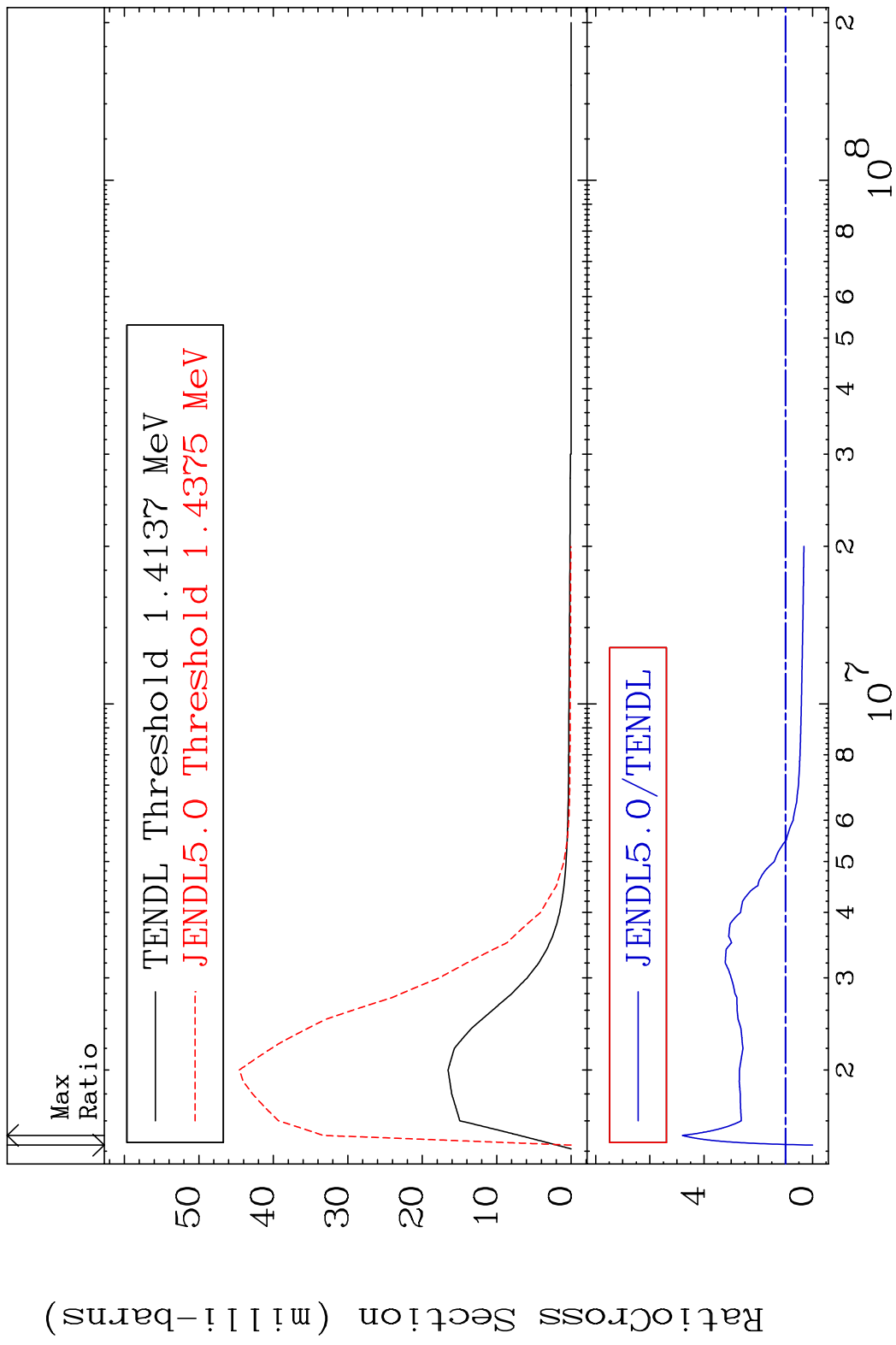
MAT 6034 MT= 73 (n, n') Level 60-Nd-145
 Cross Section -100.0 To 9999. %



MAT 6034 MT= 74 (n,n') Level 60-Nd-145
 Cross Section -100.0 To 1447. %

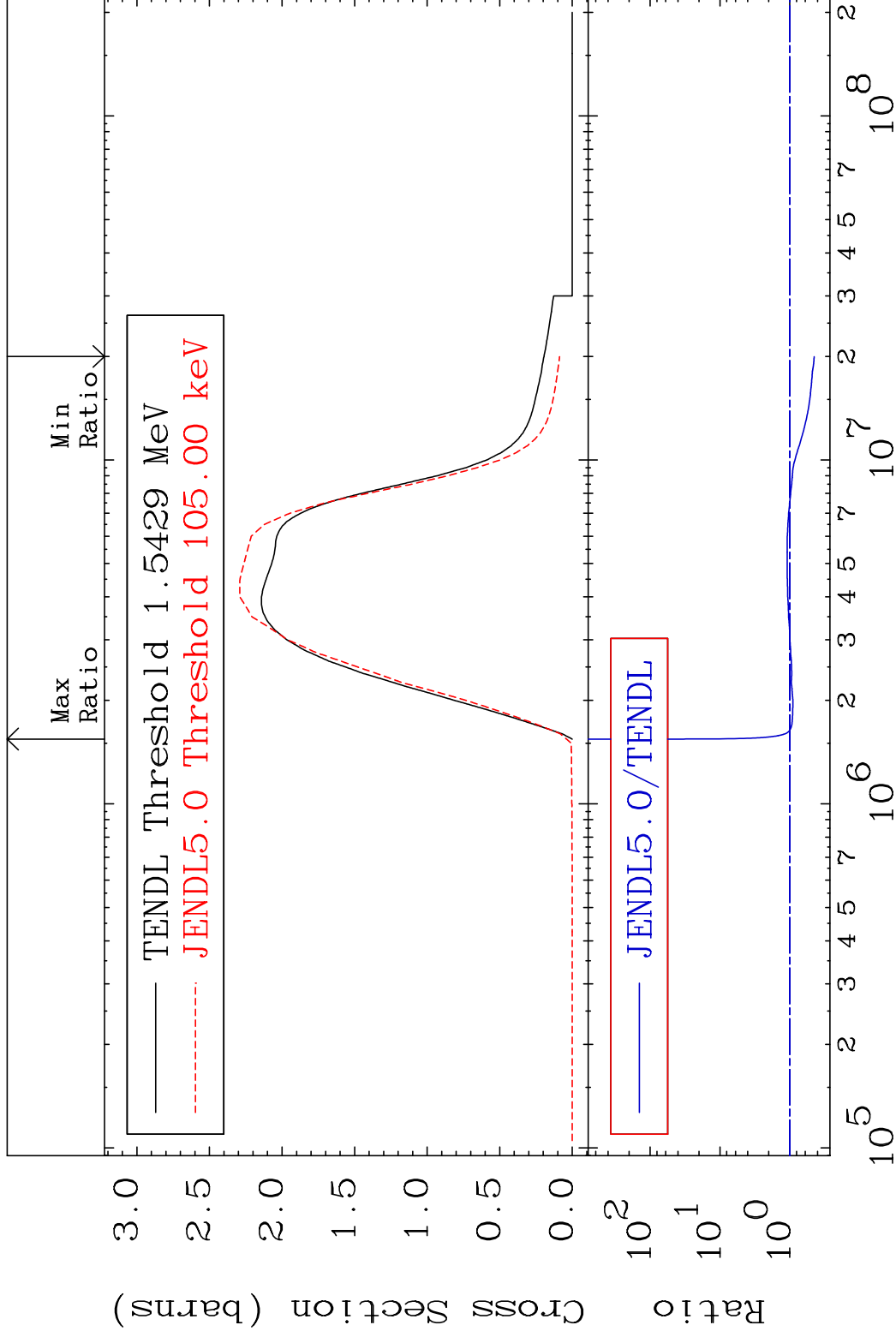


MAT 6034 MT= 75 (n,n') Level 60-Nd-145
 Cross Section -100.0 To 380.1 %



MAT 6034

(n, n') Continuum 60-Nd-145
Cross Section -55.09 To 3207. %



37

Incident Energy (eV)

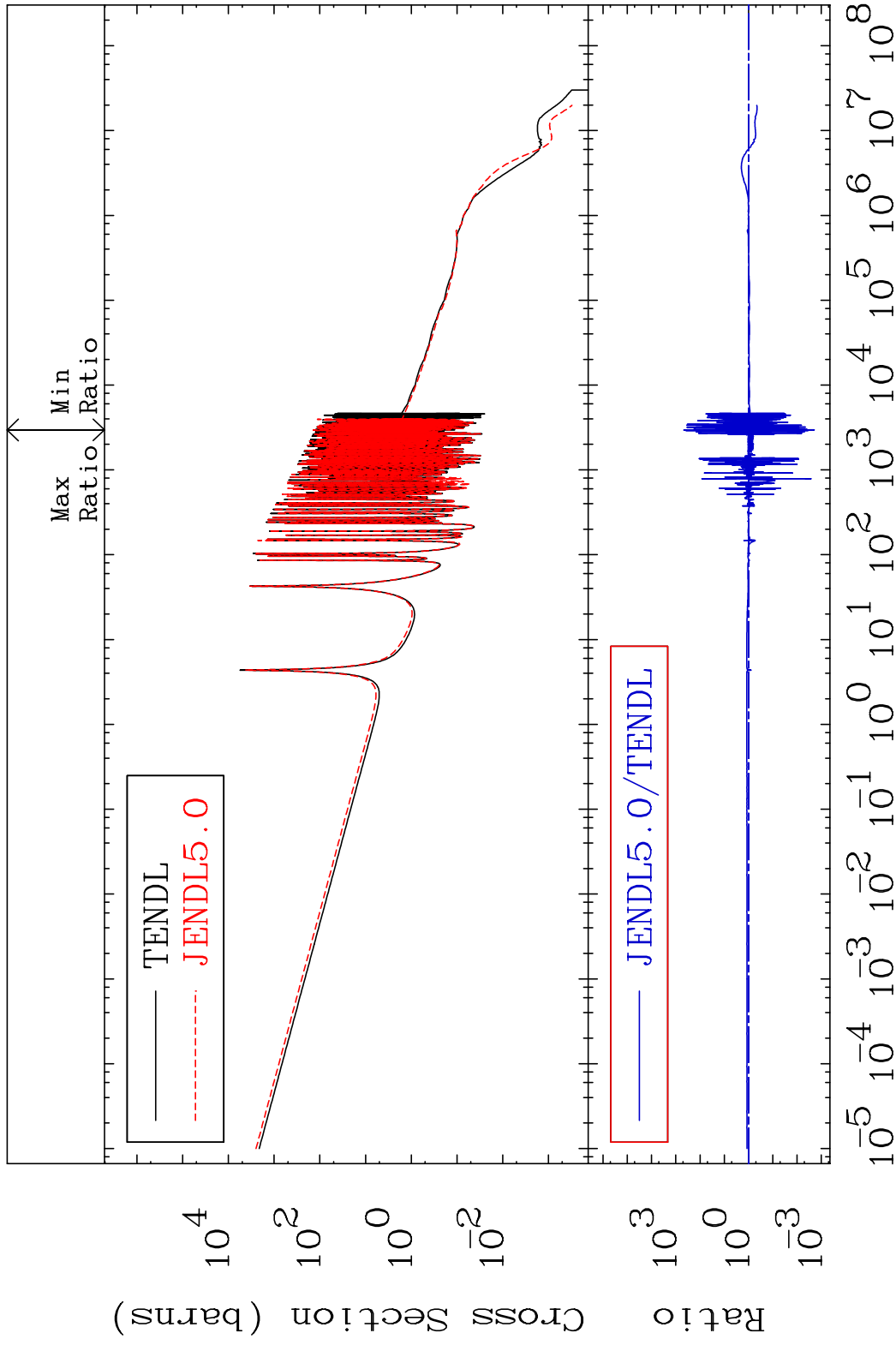
60-Nd-145

MAT 6034

(n, γ)

60-Nd-145

Cross Section -99.80 To 9999. %



38

Incident Energy (eV)

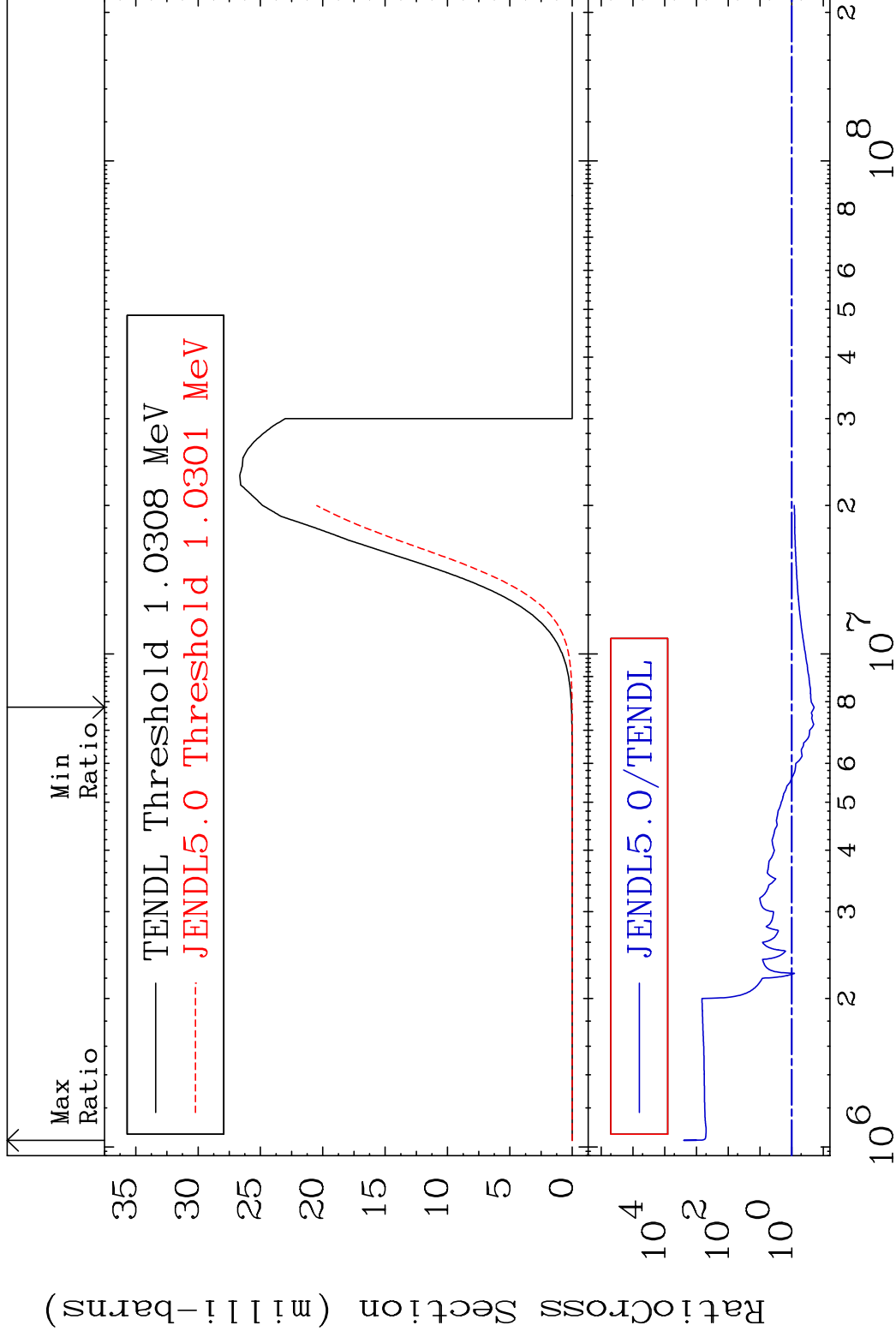
60-Nd-145

MAT 6034

(n,p)

60-Nd-145

Cross Section -80.37 To 9999. %

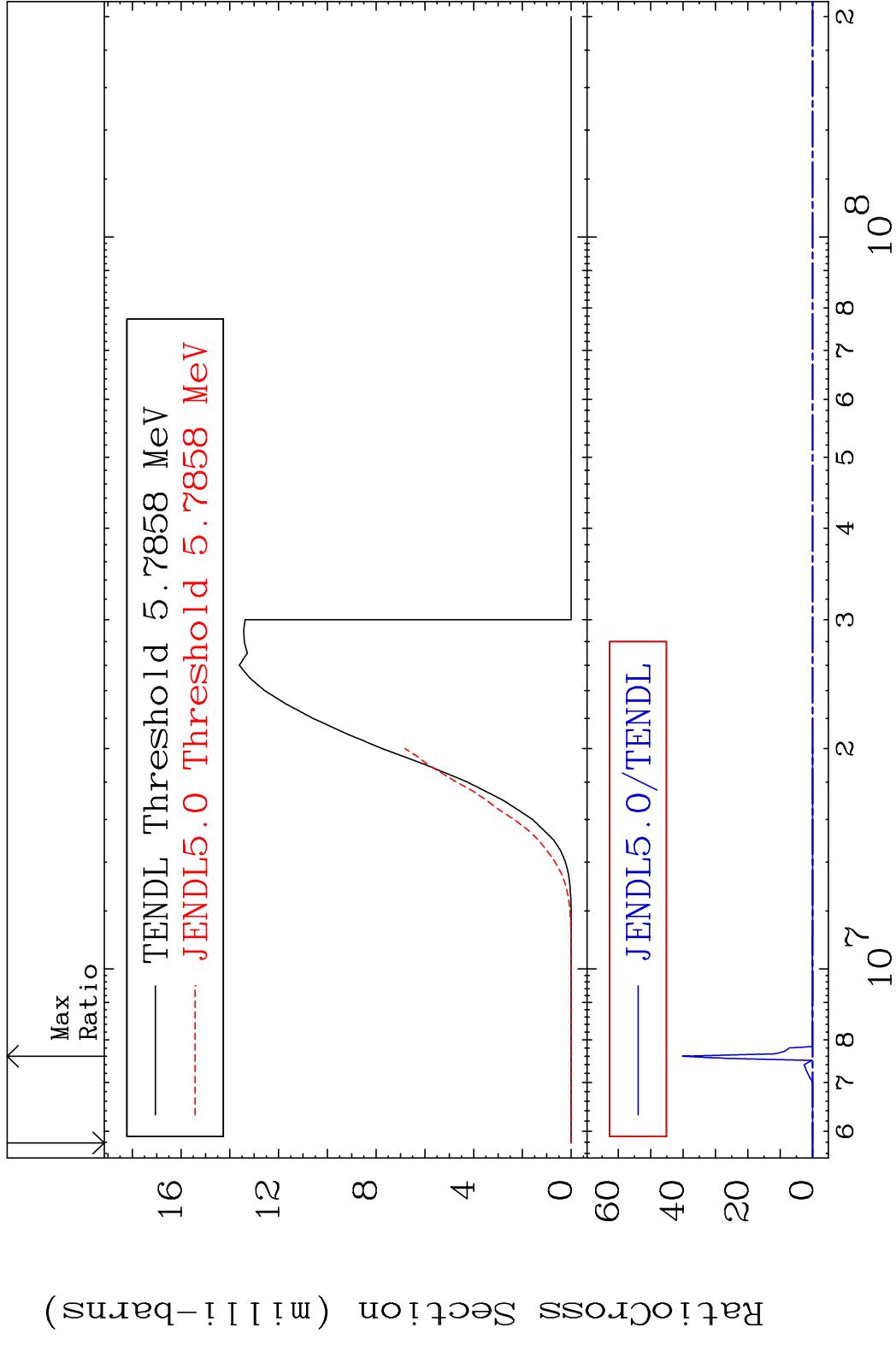


39

Incident Energy (eV)

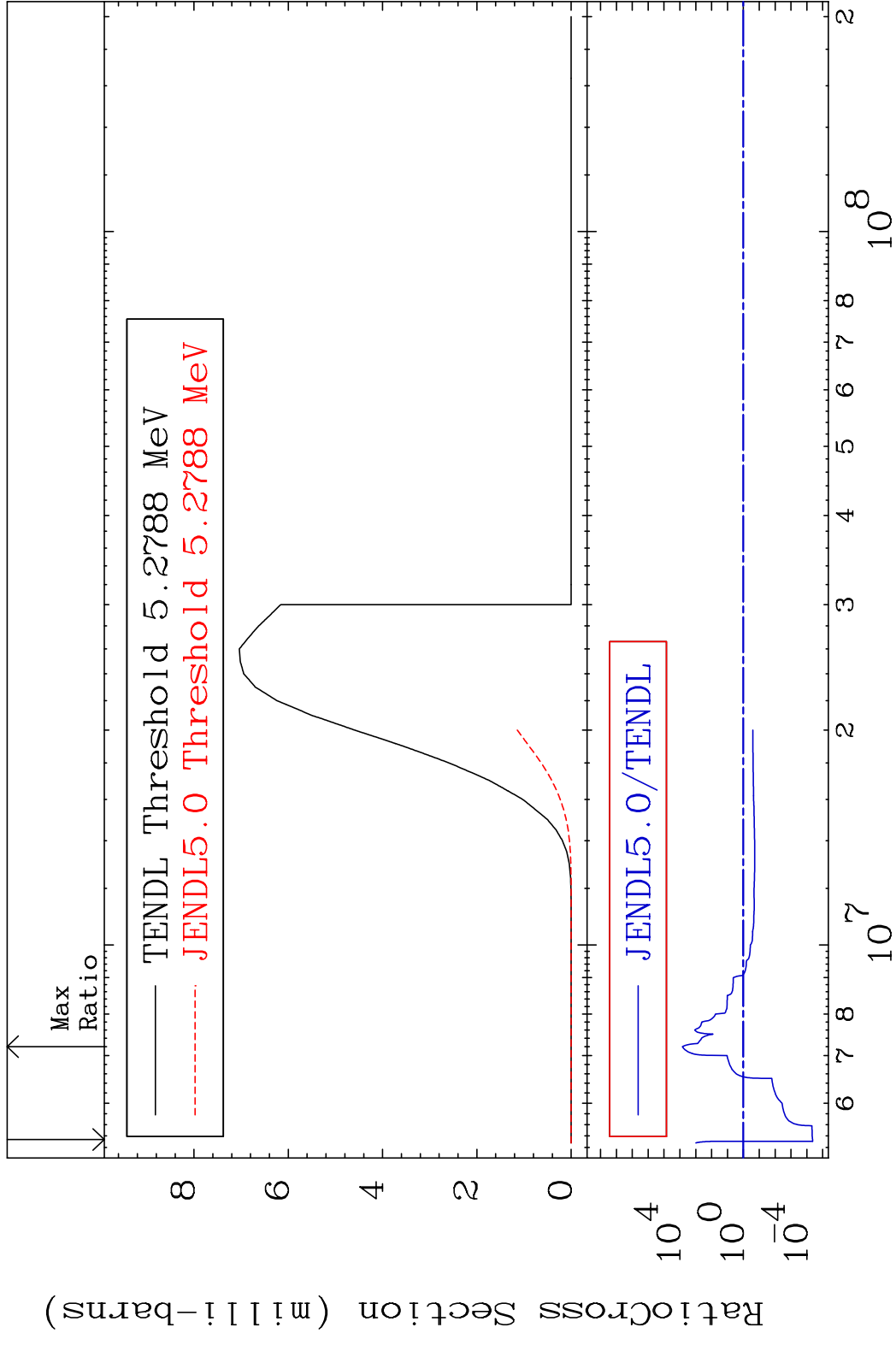
60-Nd-145

MAT 6034 (n,d) 60-Nd-145
 Cross Section -100.0 To 9999. %



40 60-Nd-145

MAT 6034 (n, t) 60-Nd-145
 Cross Section -100.0 To 9999. %

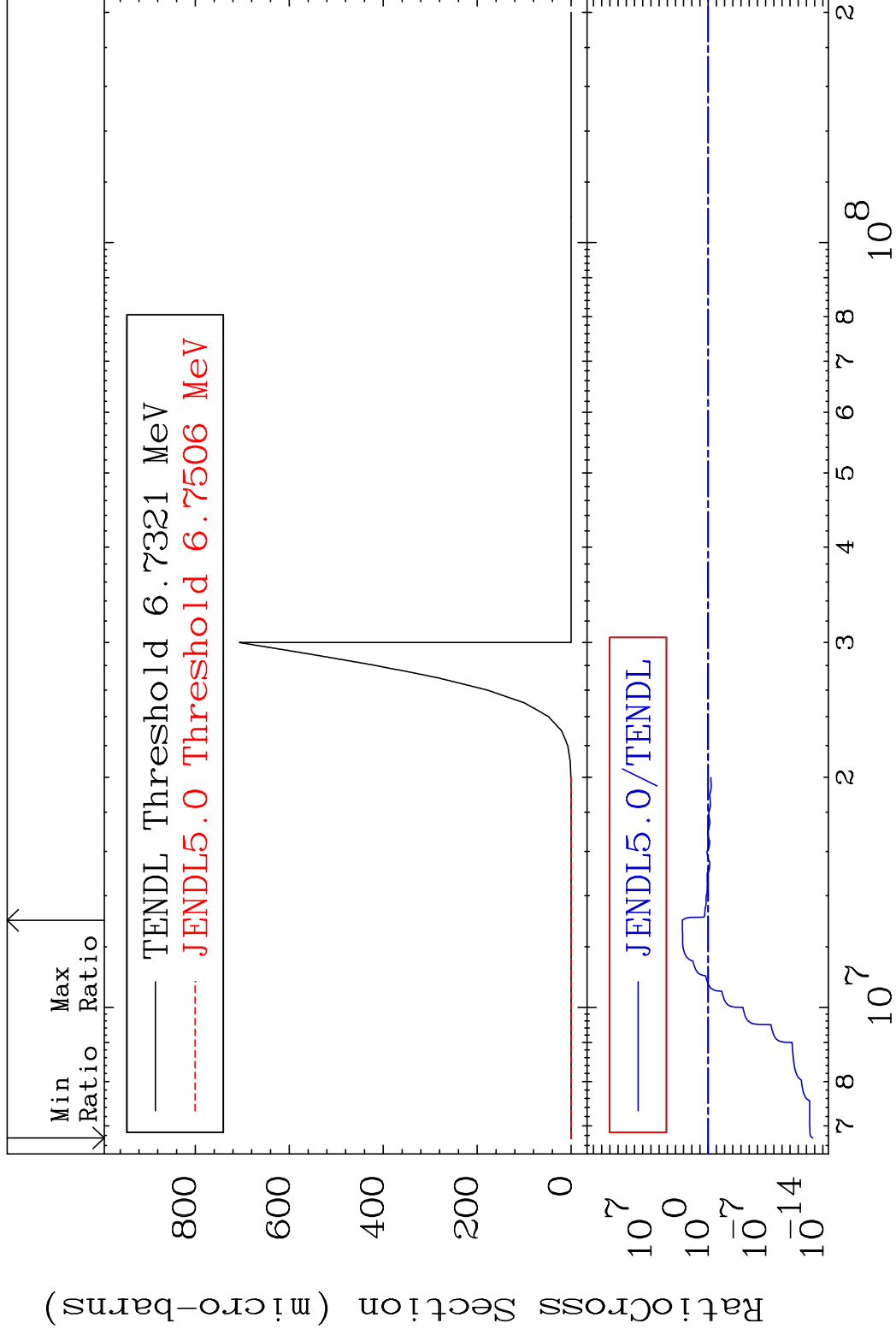


MAT 6034

(n, He-3)

60-Nd-145

Cross Section -100.0 To 9999. %



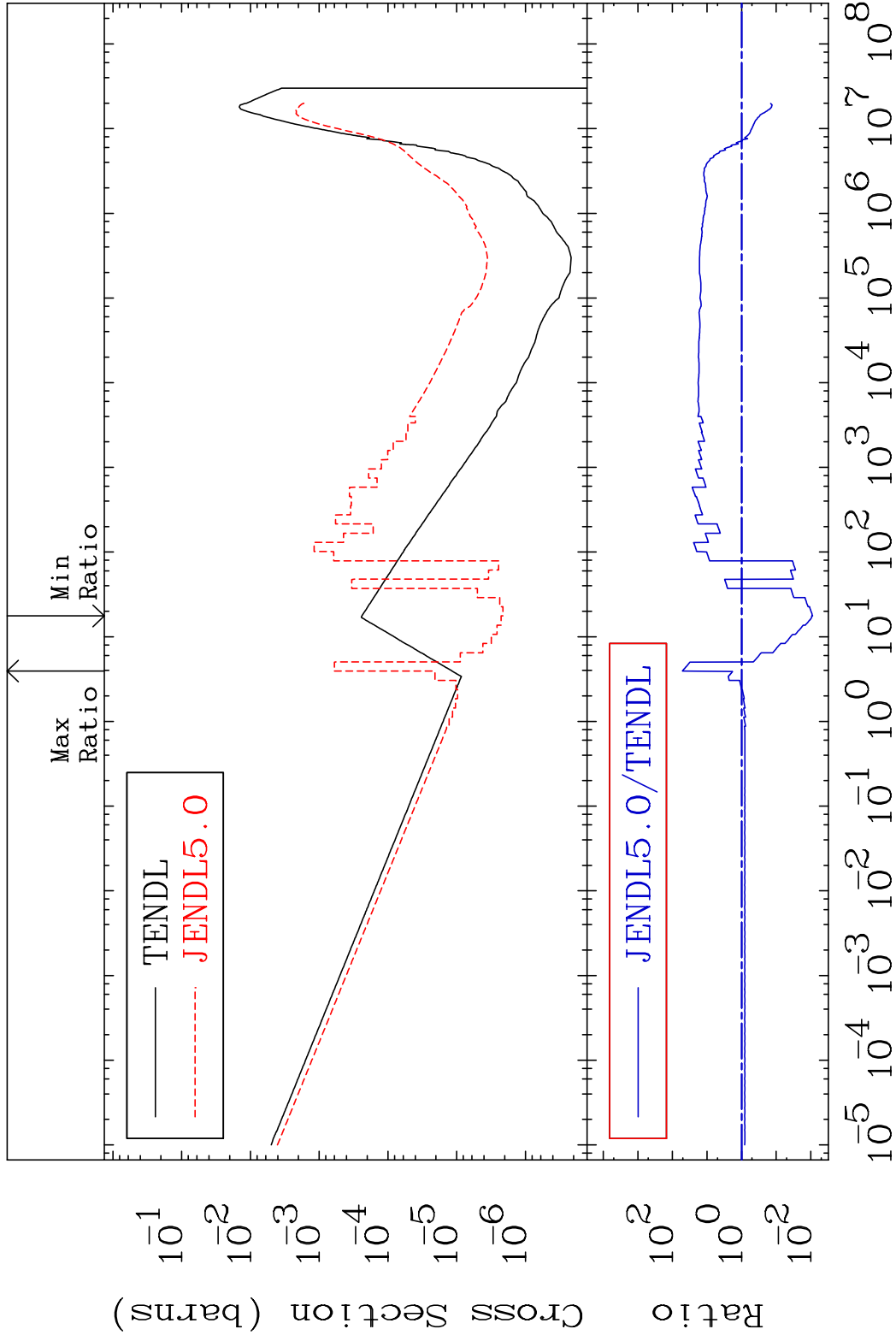
42

Incident Energy (eV)

60-Nd-145

MAT 6034

(n, α)
Cross Section -99.11 To 5065. %
60-Nd-145



43

Incident Energy (eV)

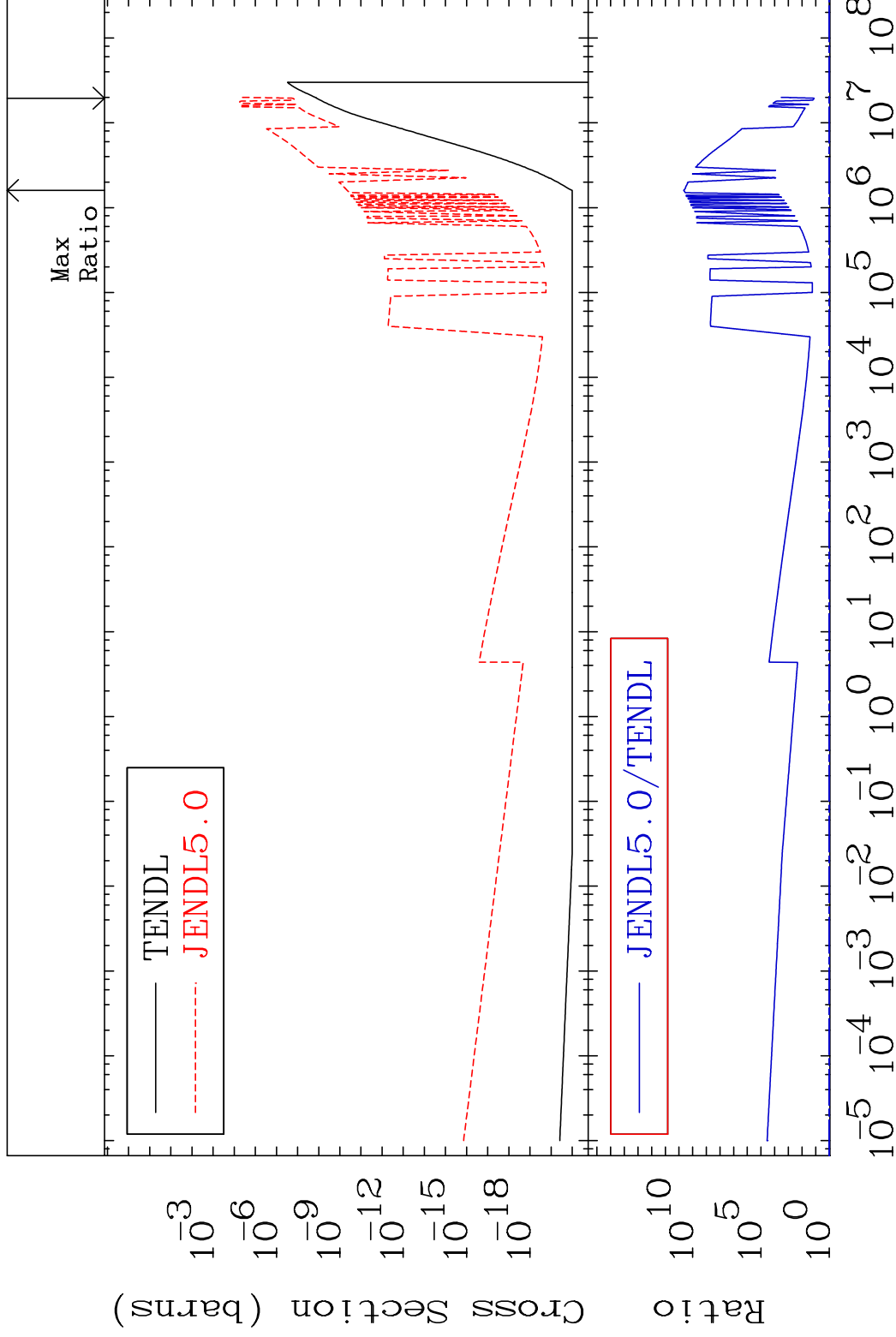
60-Nd-145

MAT 6034

(n,2α)

60-Nd-145

Cross Section 1199. To 9999. %

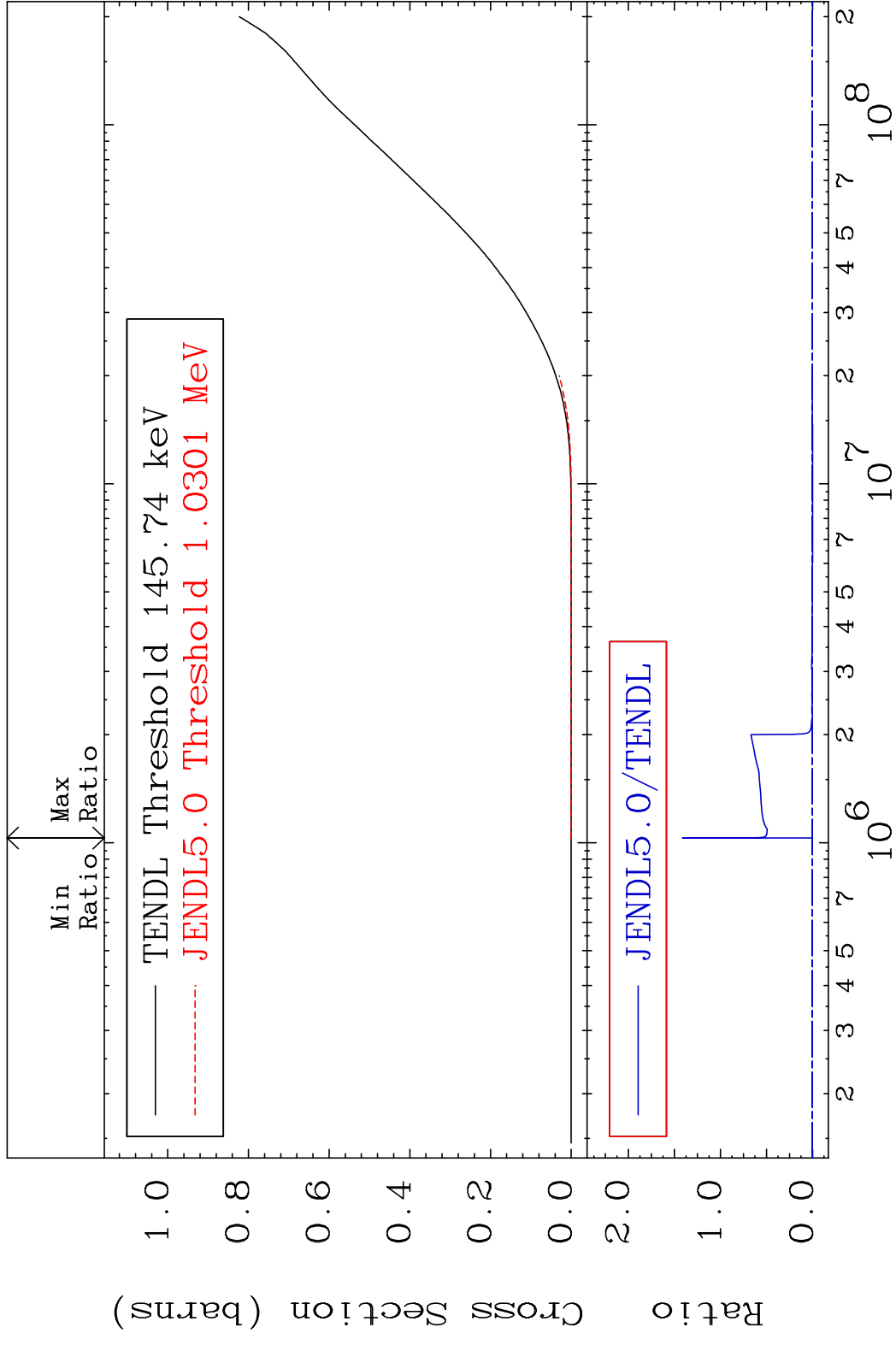


44

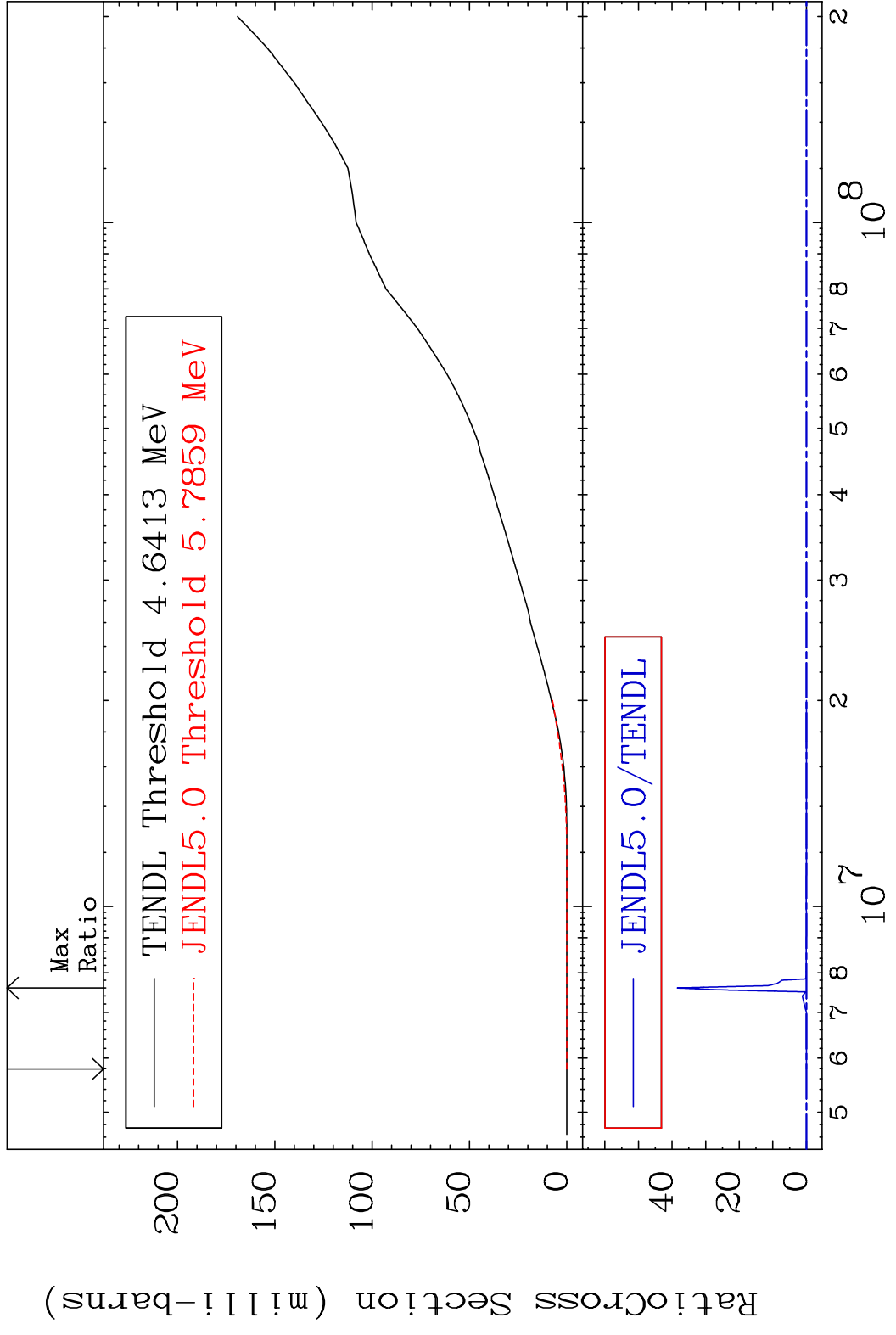
Incident Energy (eV)

60-Nd-145

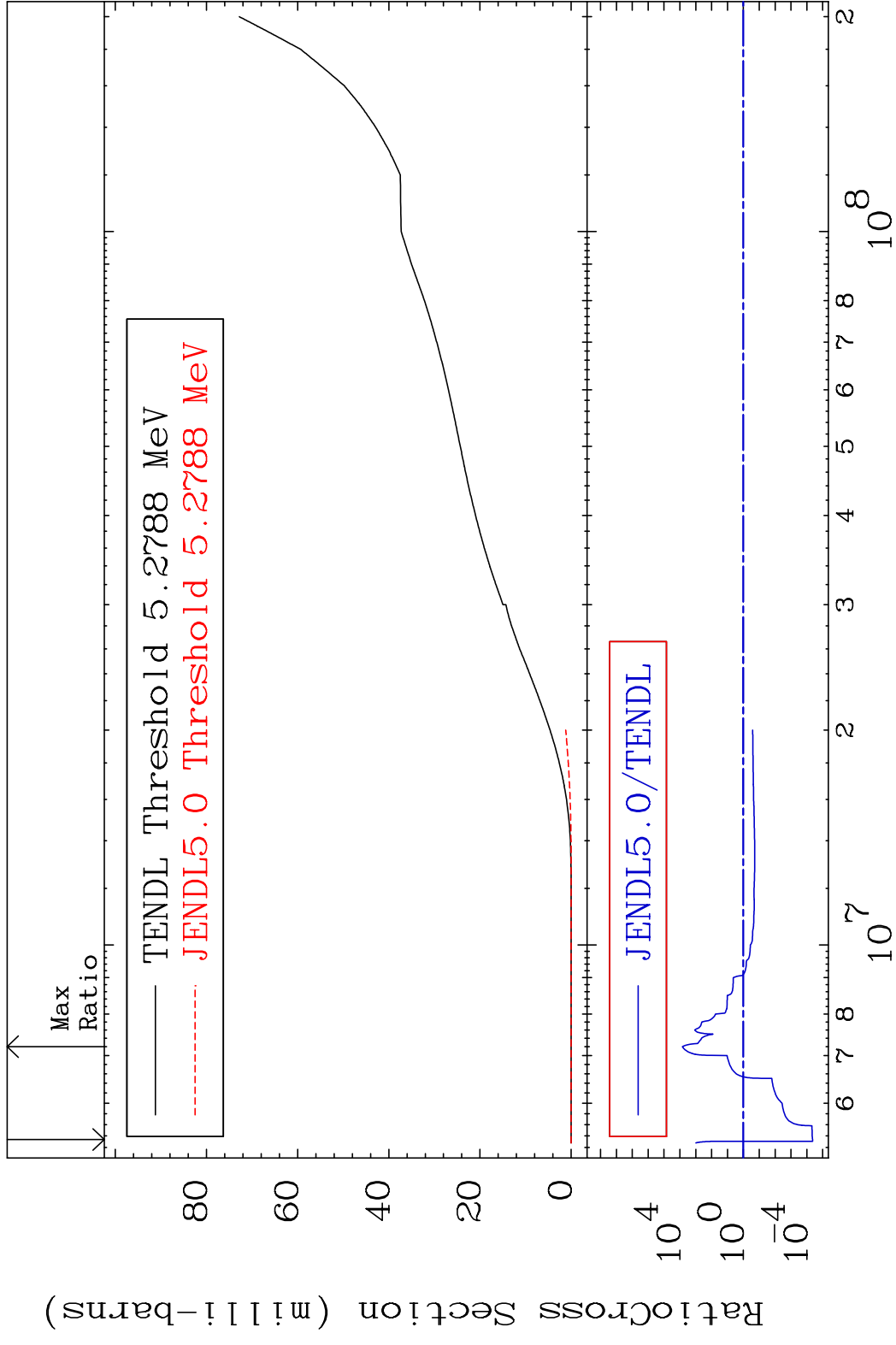
MAT 6034 Hydrogen Production 60-Nd-145
 Cross Section -100.0 To 9999. %



MAT 6034 Deuterium Production 60-Nd-145
 Cross Section -100.0 To 9999. %



MAT 6034 Tritium Production 60-Nd-145
 Cross Section -100.0 To 9999. %

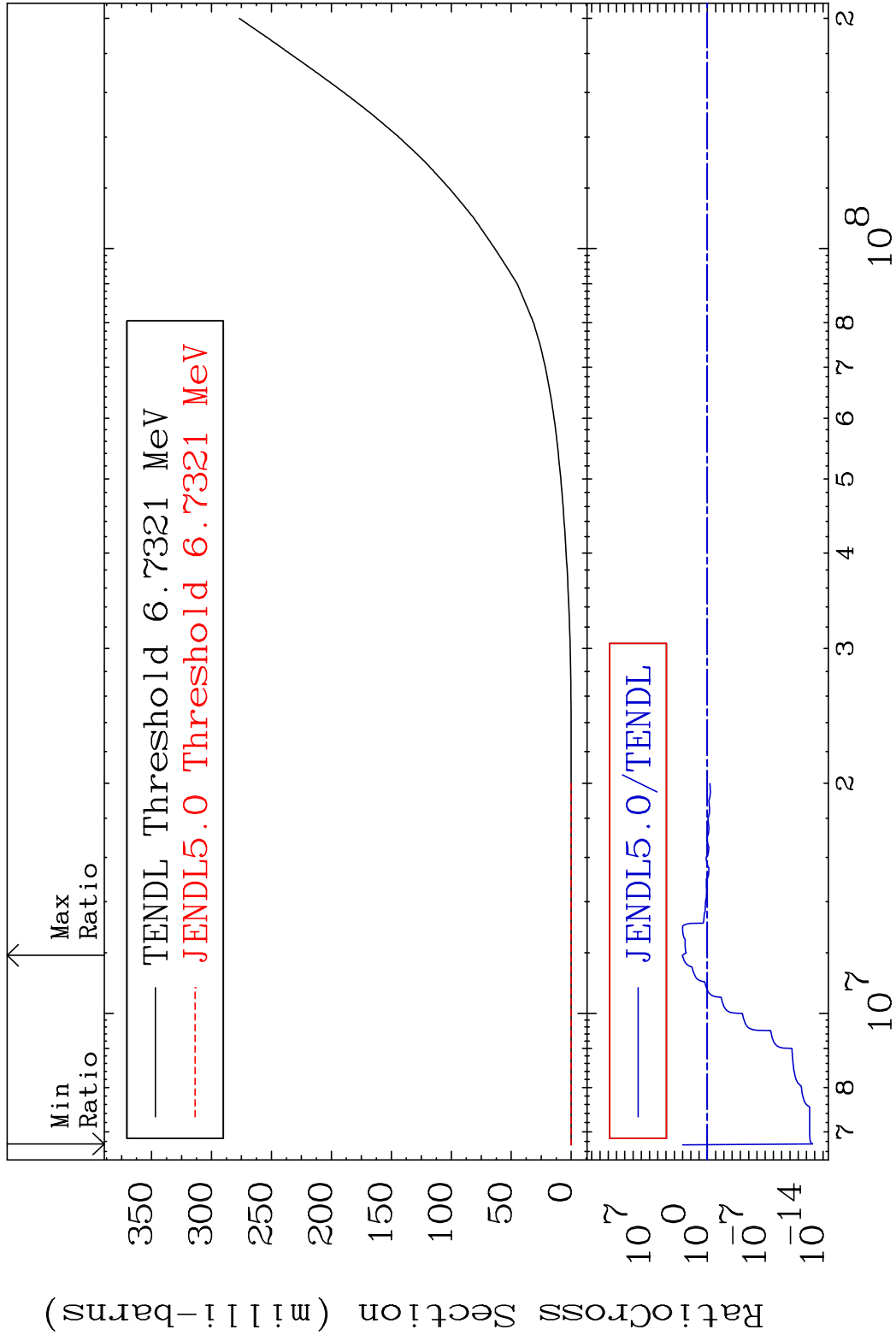


MAT 6034

He-3 Production

60-Nd-145

Cross Section -100.0 To 9999. %



48

Incident Energy (eV)

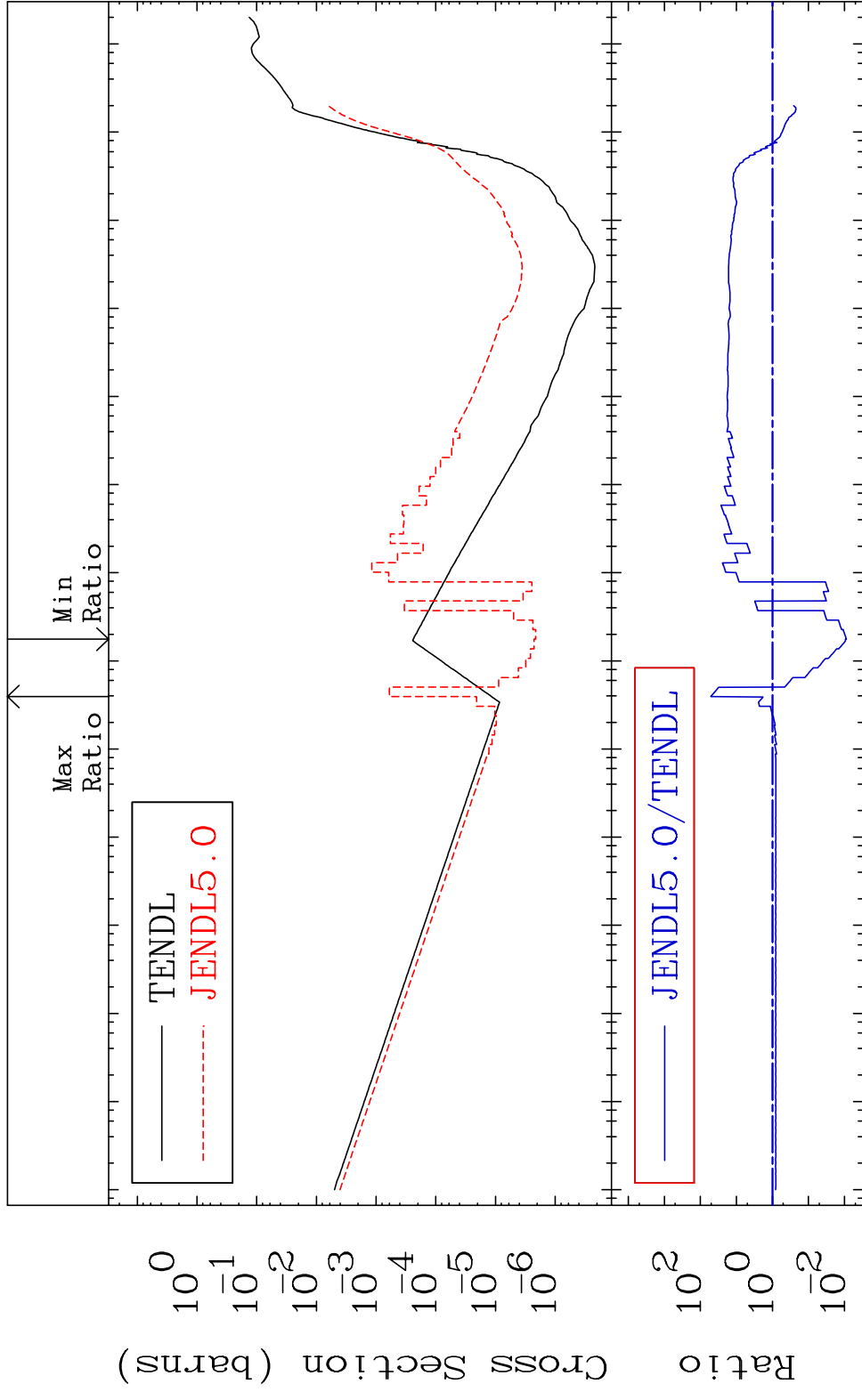
60-Nd-145

MAT 6034

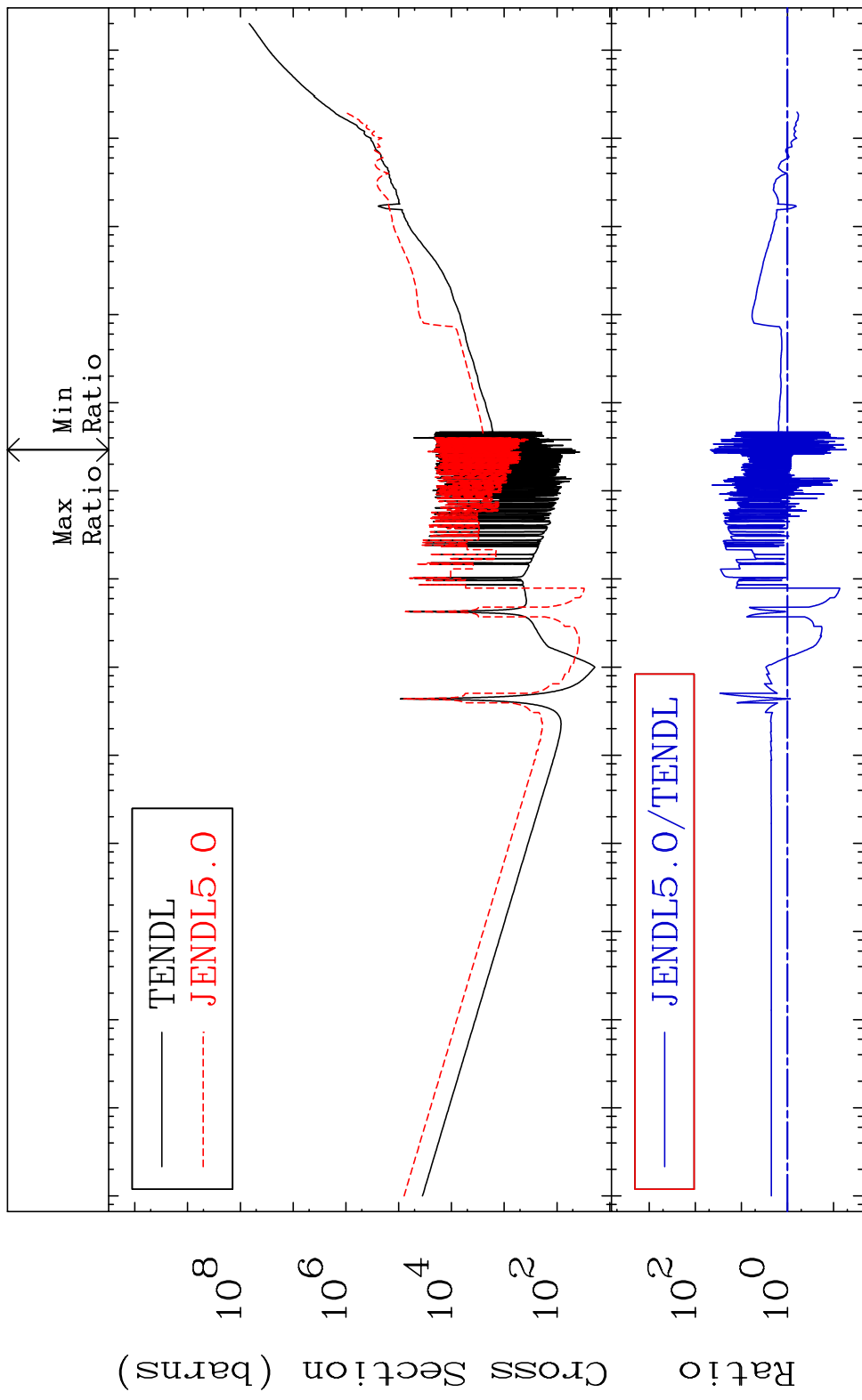
He-4 Production

60-Nd-145

Cross Section -99.11 To 5065. %



MAT 6034 Kerma total (eV-barns) 60-Nd-145
 Cross Section -94.75 To 4516. %



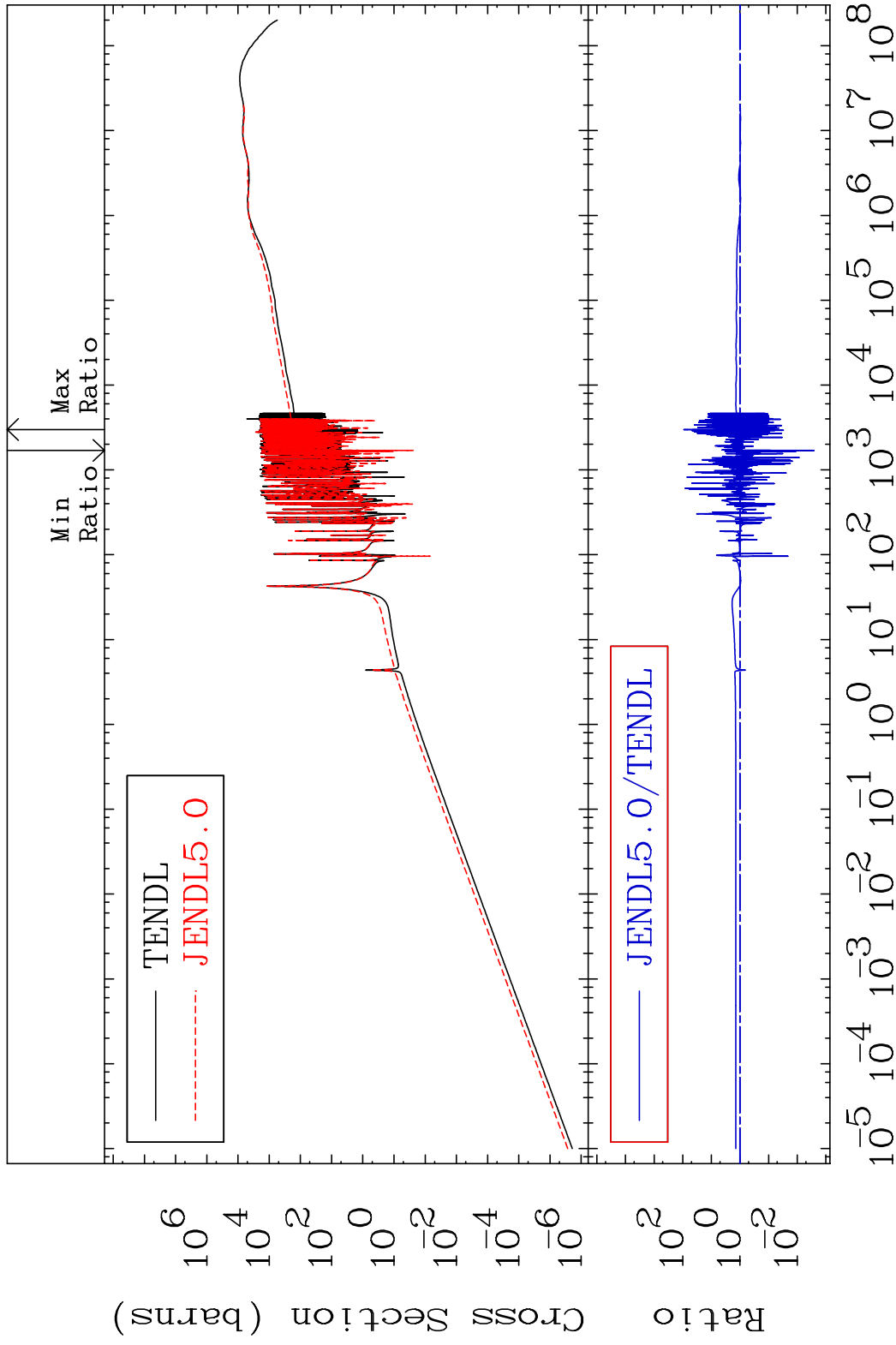
50 Incident Energy (eV) 60-Nd-145

MAT 6034

Kerma elastic

60-Nd-145

Cross Section -99.74 To 9186. %

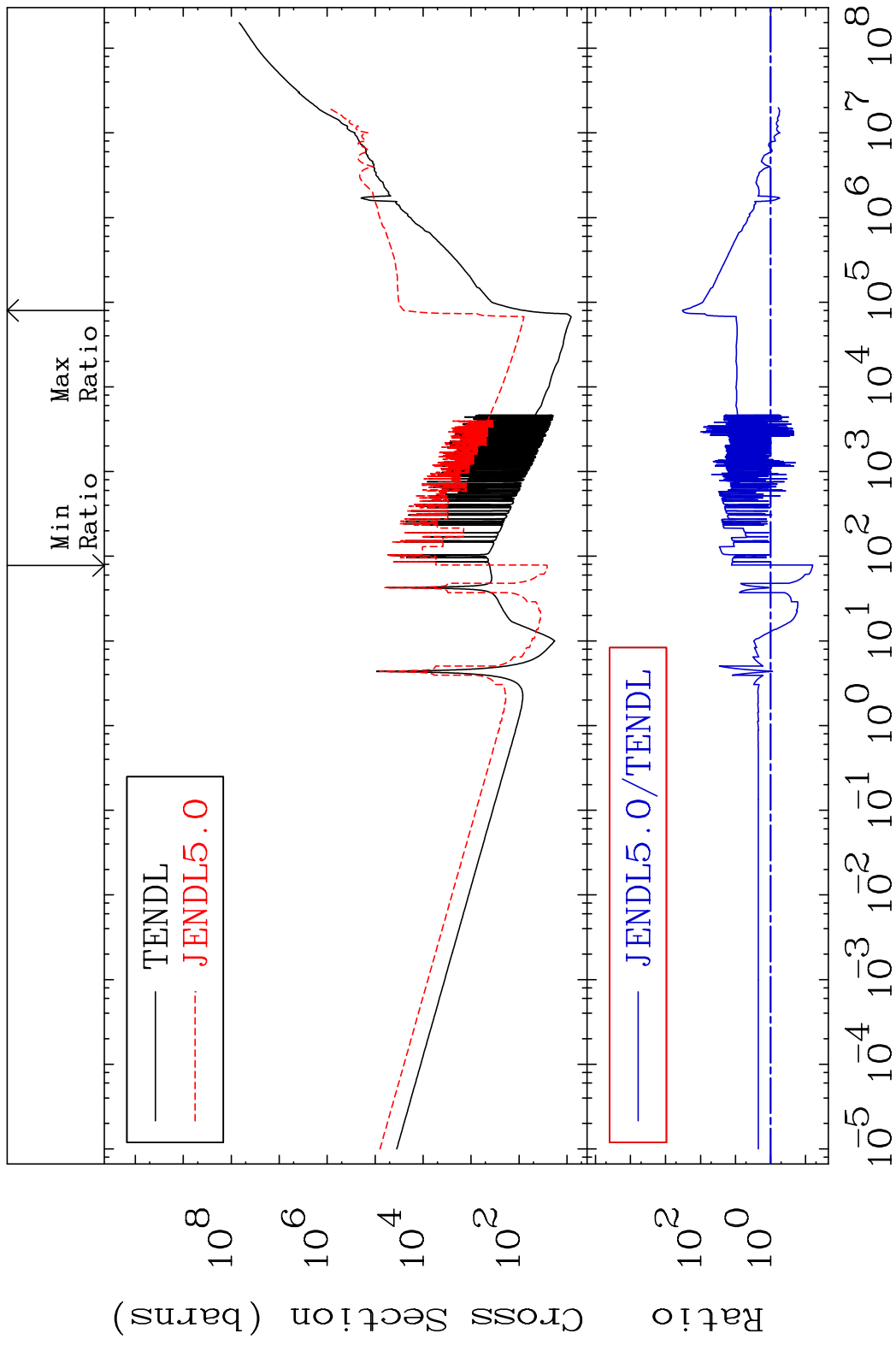


51

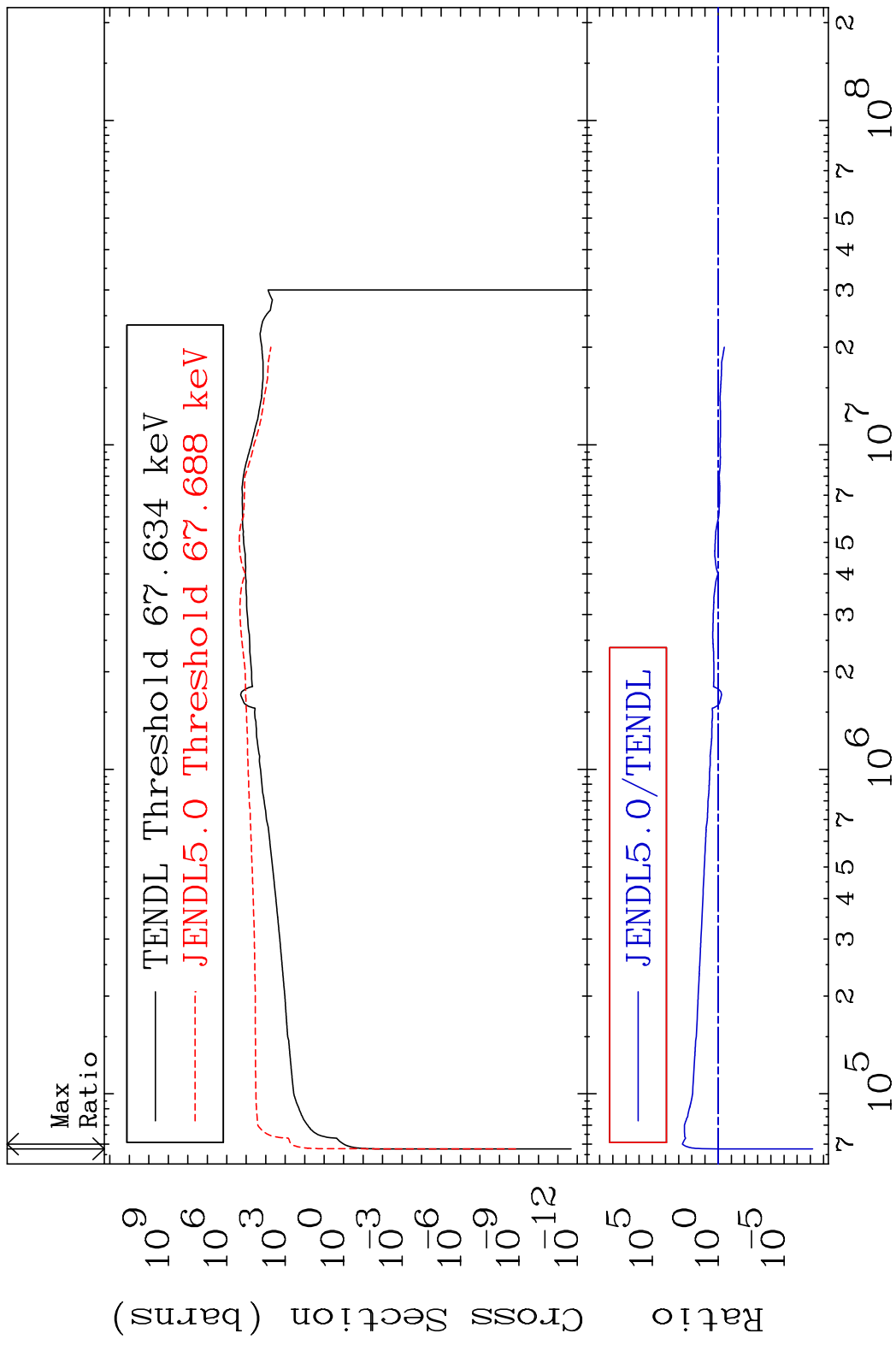
Incident Energy (eV)

60-Nd-145

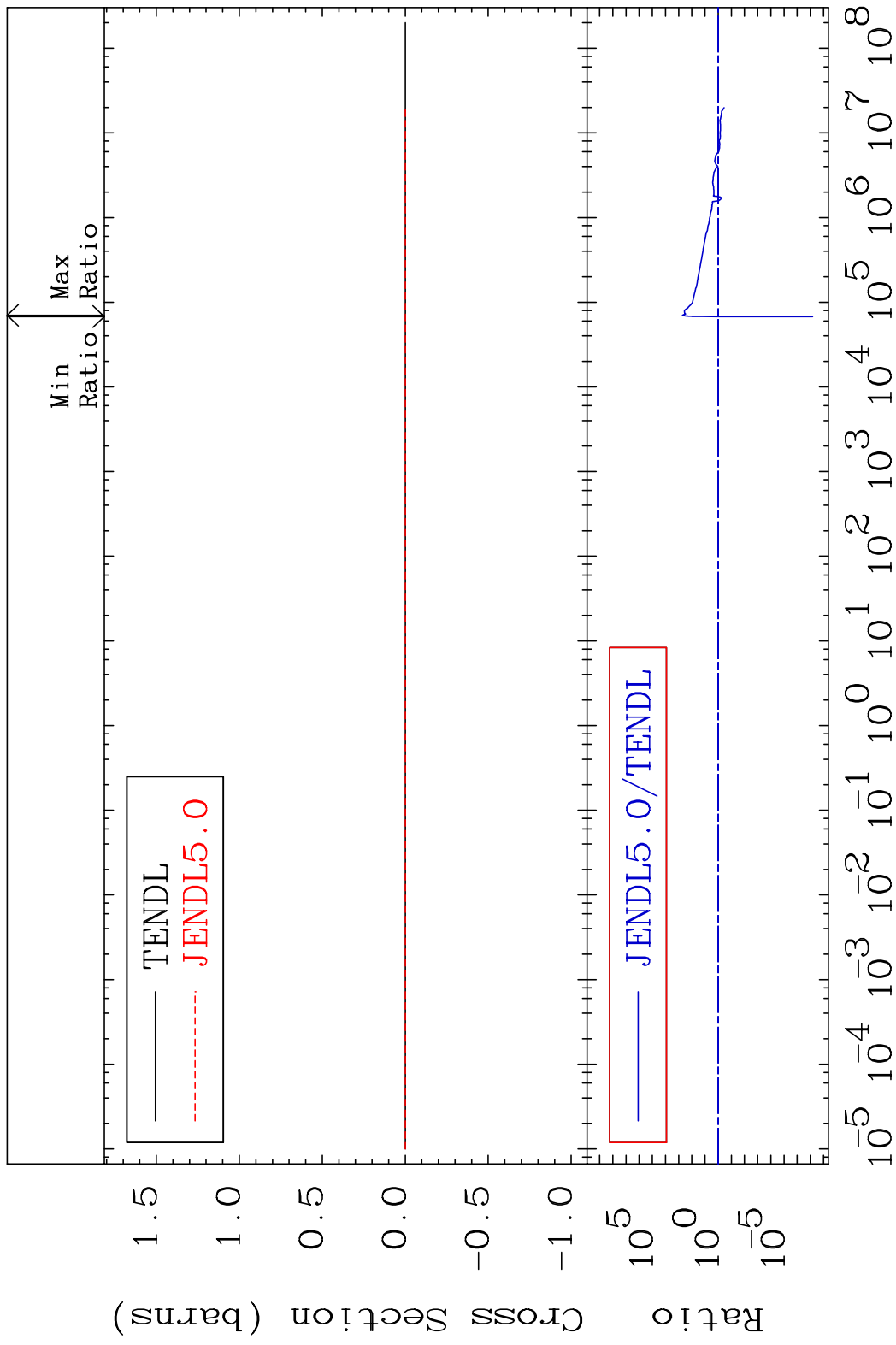
MAT 6034 Kerma non-elastic (all but mt2) 60-Nd-145
 Cross Section -93.69 To 9999. %



MAT 6034 Kerma inelastic (mt51-91) 60-Nd-145
 Cross Section -100.0 To 9999. %



MAT 6034 Kerma fission (mt18 or mt19-20-21-38) 60-Nd-145
 Cross Section -100.0 To 9999. %

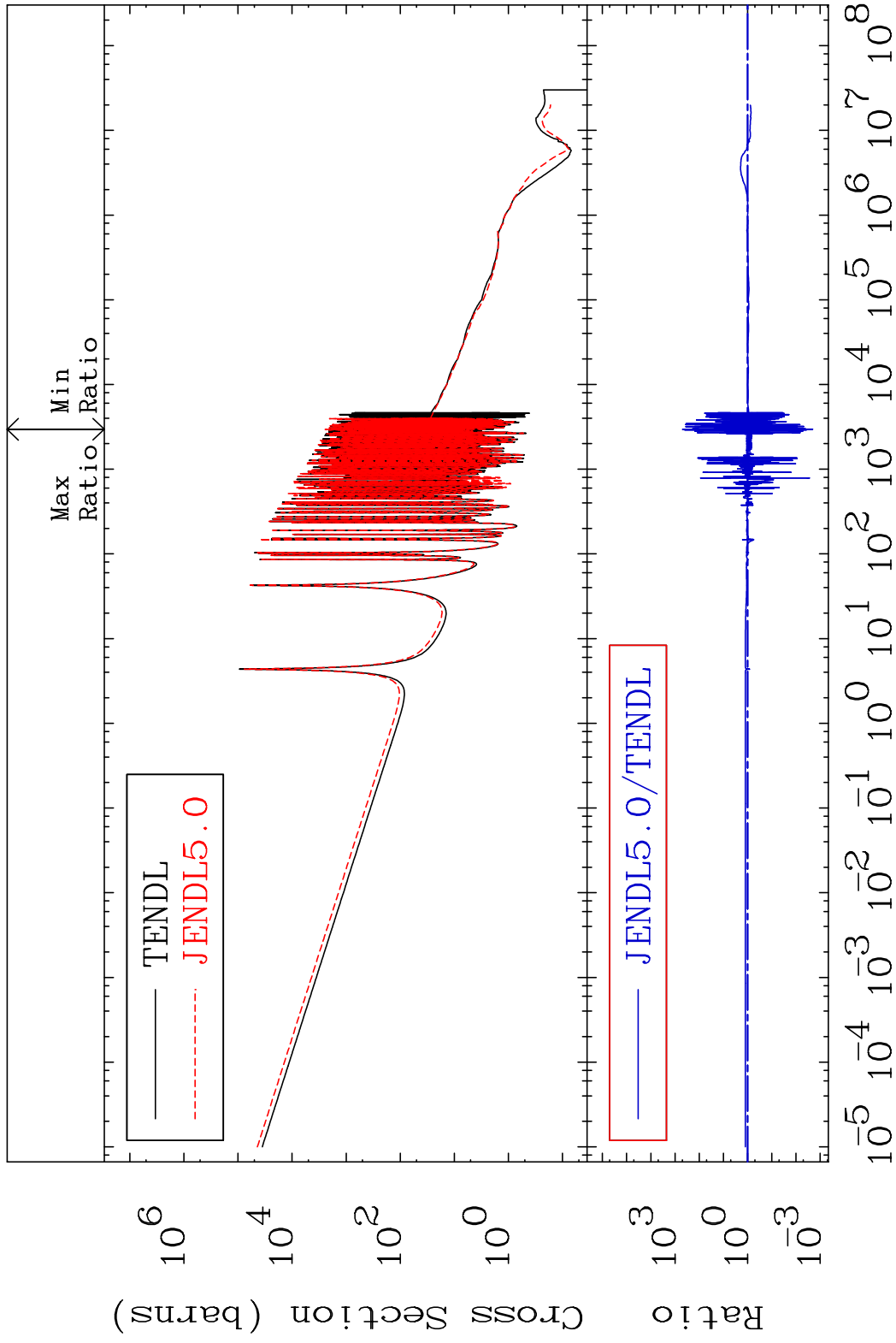


MAT 6034

Kerma capture (mt102)

60-Nd-145

Cross Section -99.79 To 9999. %

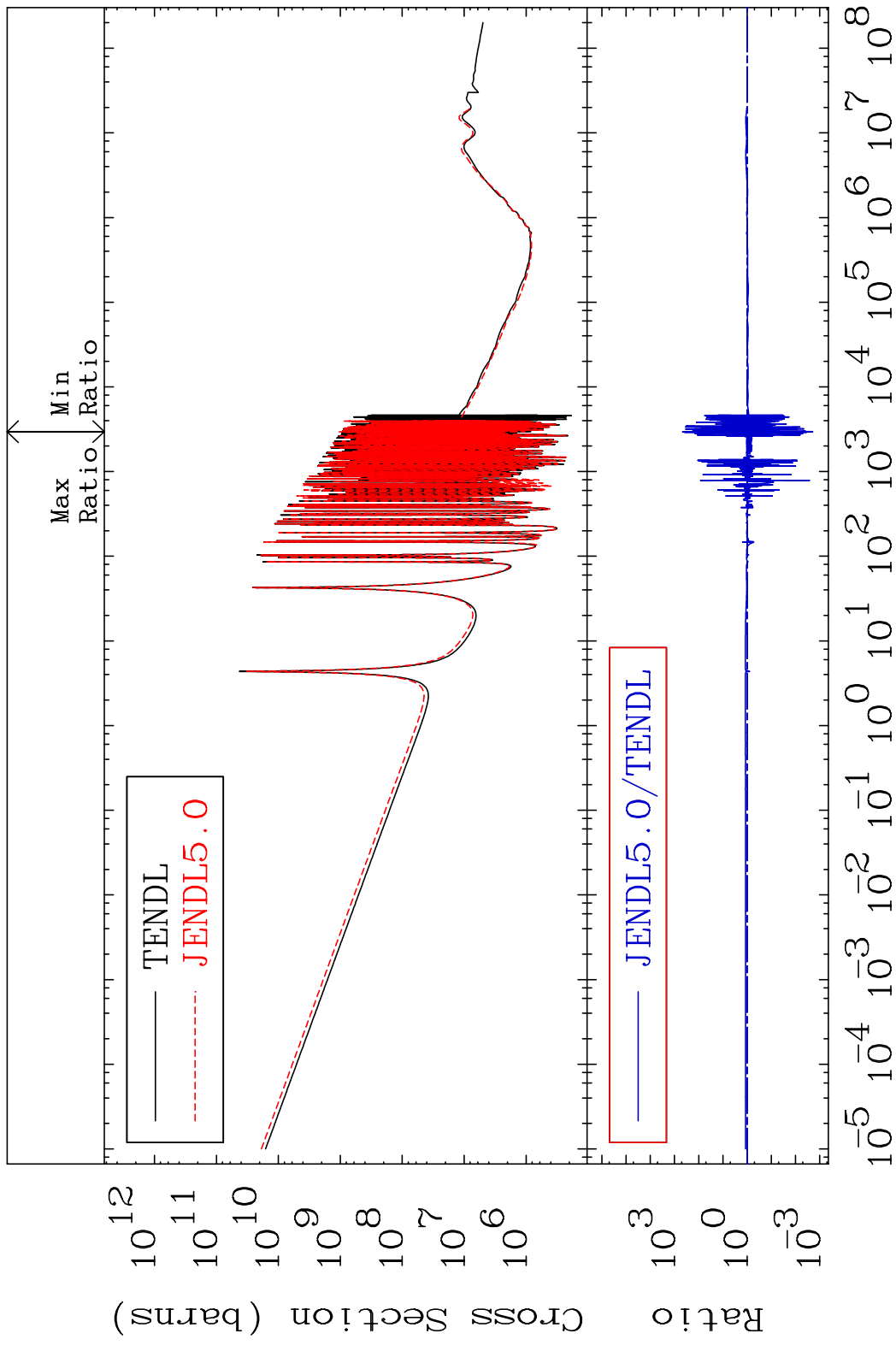


55

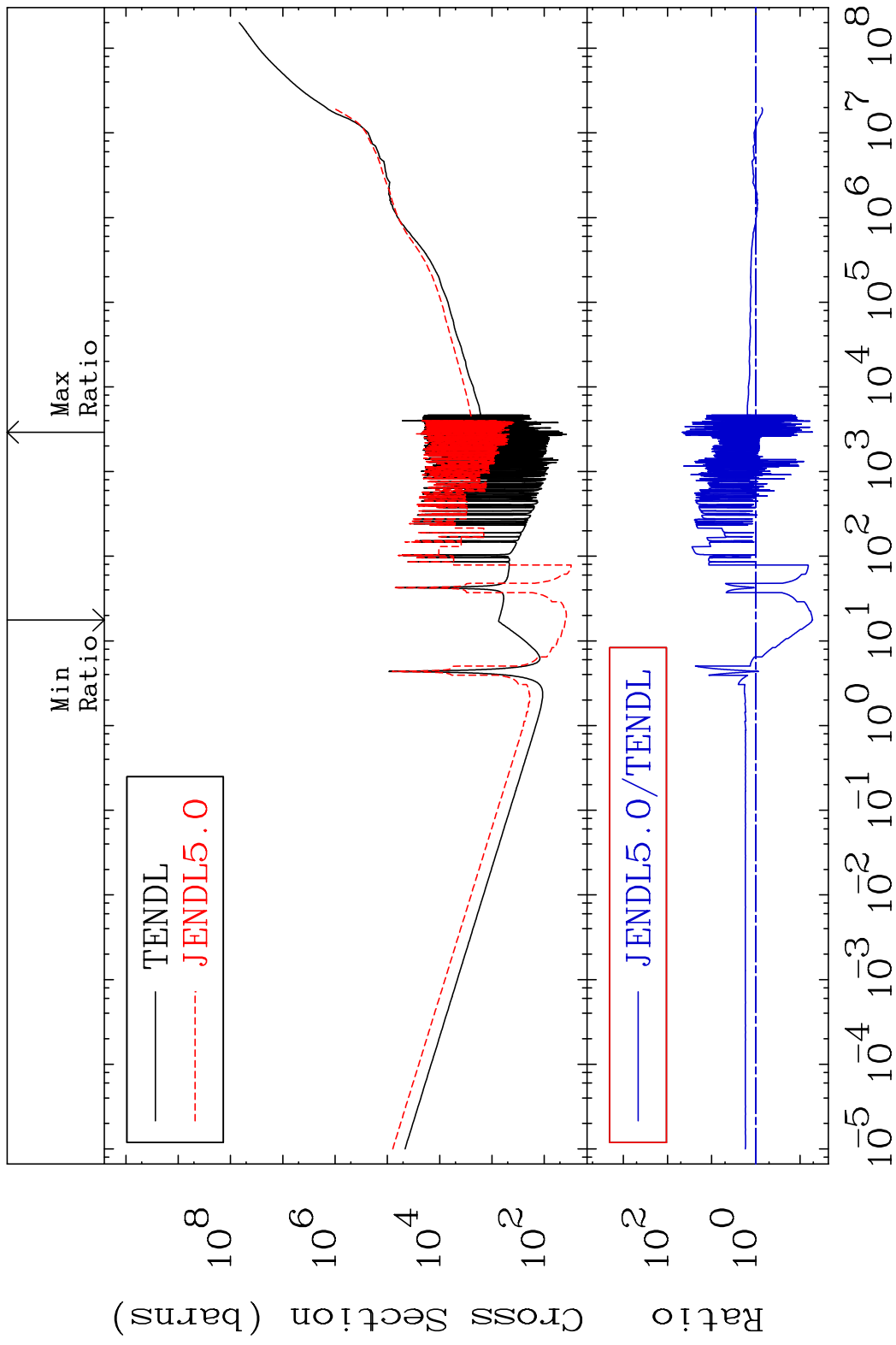
Incident Energy (eV)

60-Nd-145

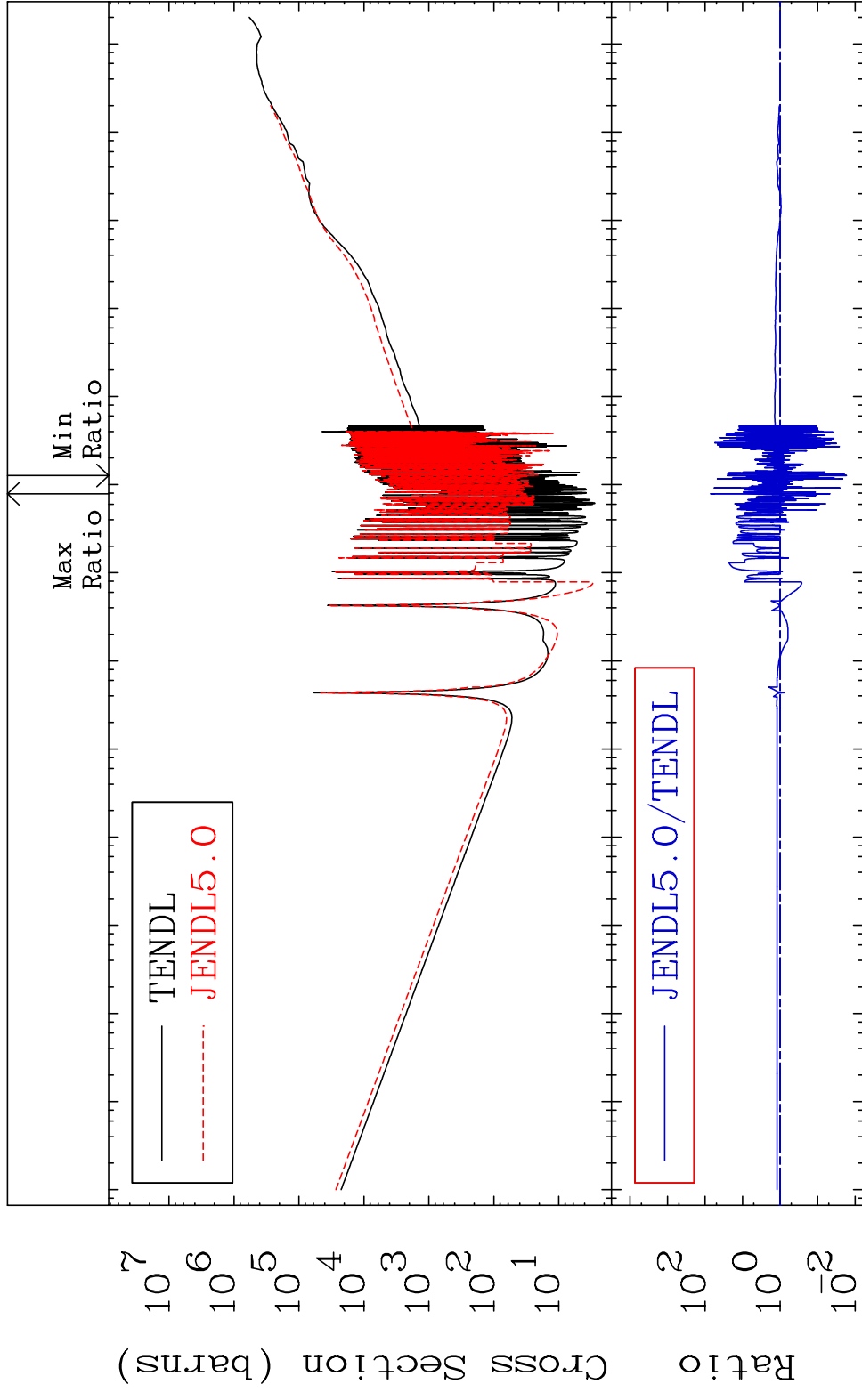
MAT 6034 Total photon (eV-barns) 60-Nd-145
Cross Section -99.80 To 9999. %



MAT 6034 Total kinematic kerma (high limit) 60-Nd-145
 Cross Section -94.80 To 4514. %



MAT 6034 Dpa total (eV-barns) 60-Nd-145
 Cross Section -98.29 To 6962. %

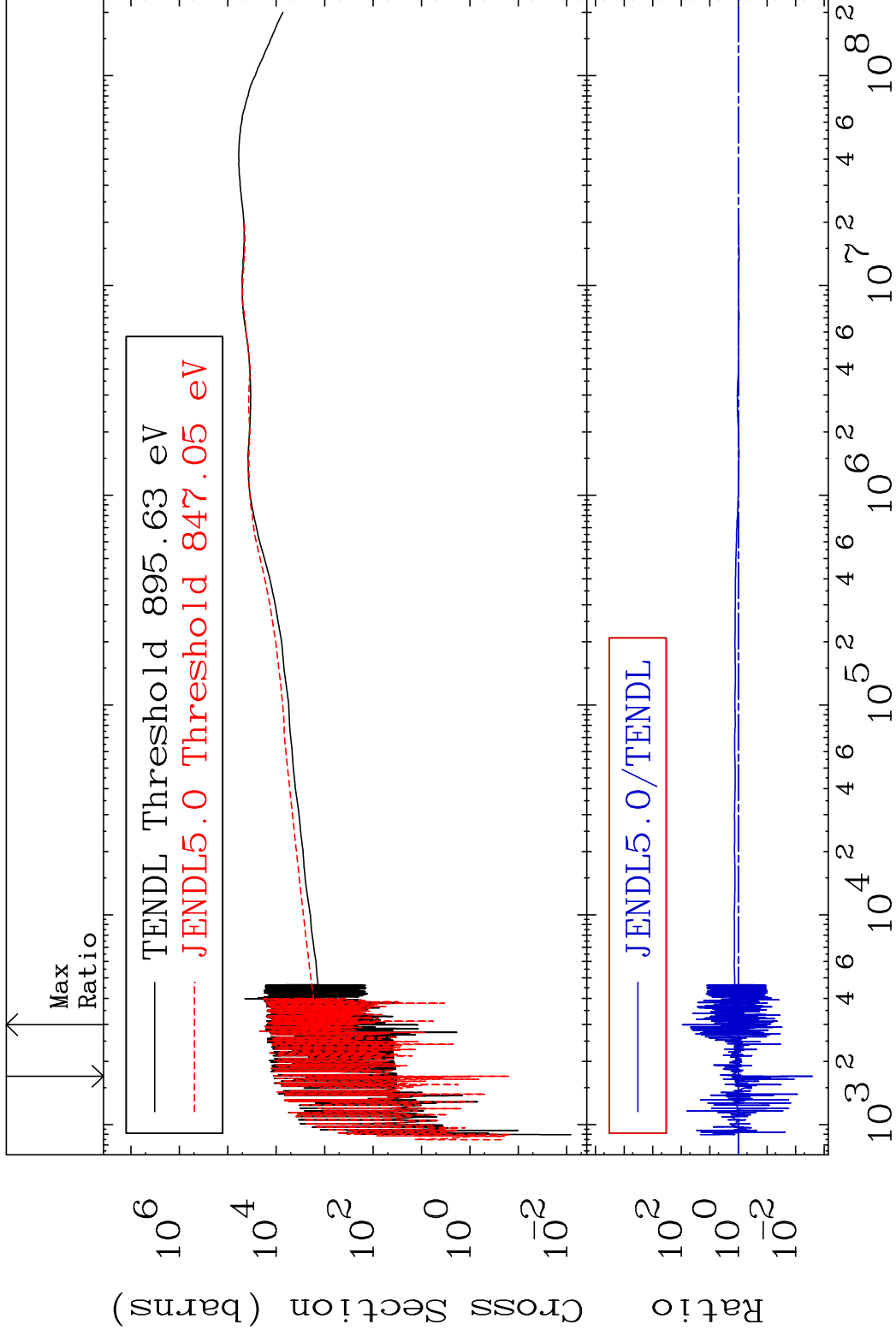


MAT 6034

Dpa elastic (mt2)

60-Nd-145

Cross Section -99.74 To 9224. %

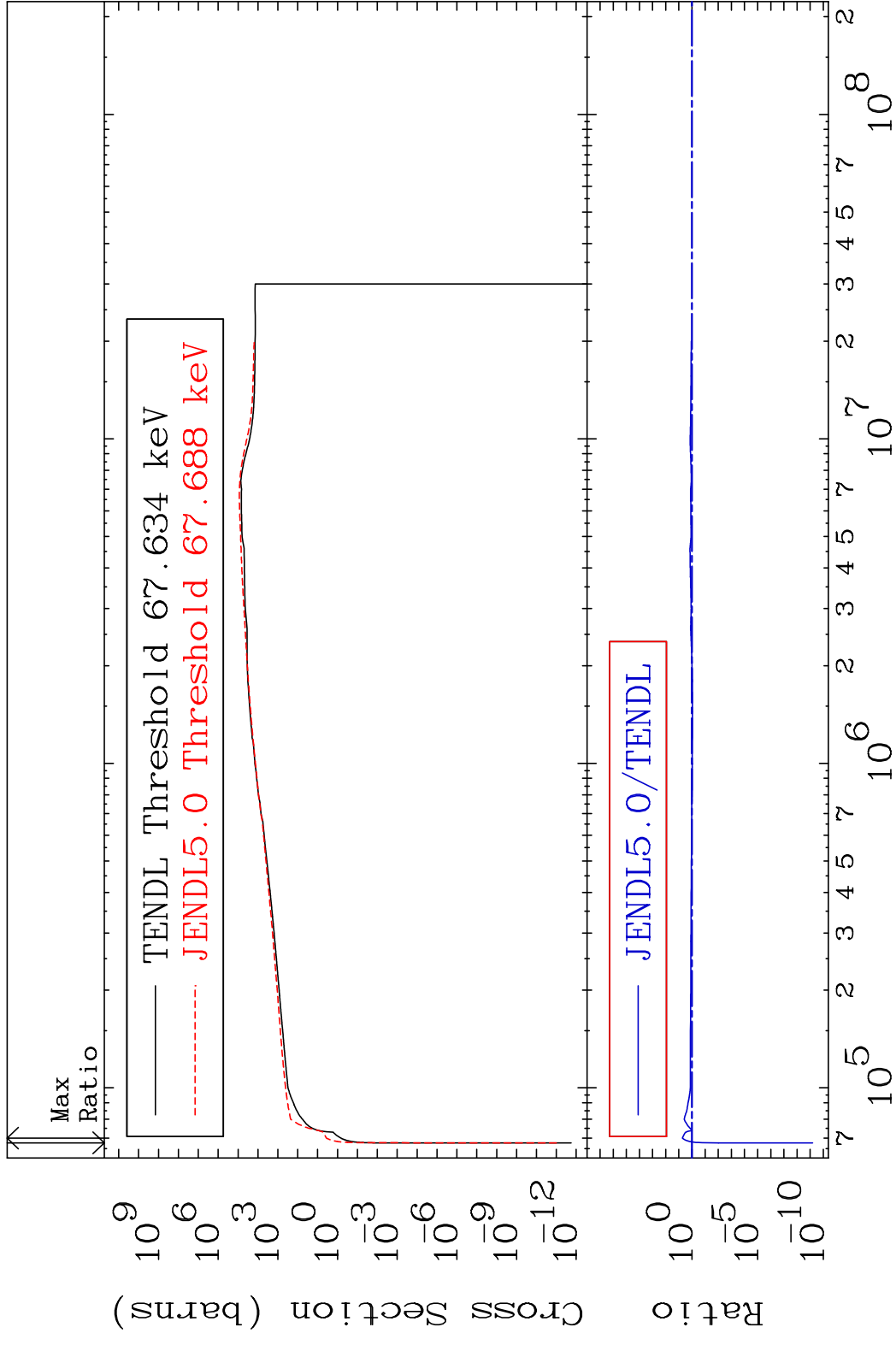


59

Incident Energy (eV)

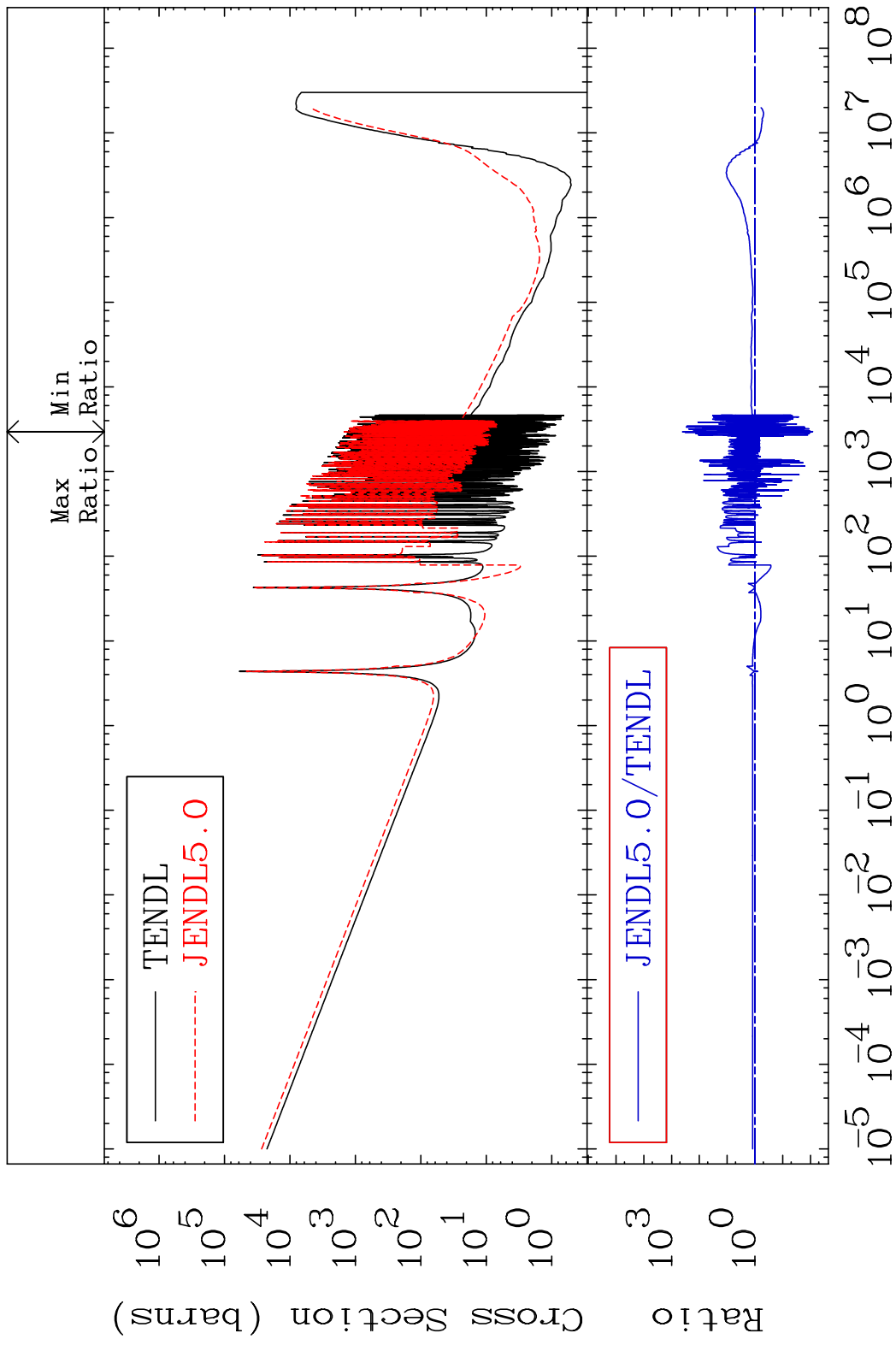
60-Nd-145

MAT 6034 Dpa inelastic (mt51-91) 60-Nd-145
 Cross Section -100.0 To 440.2 %

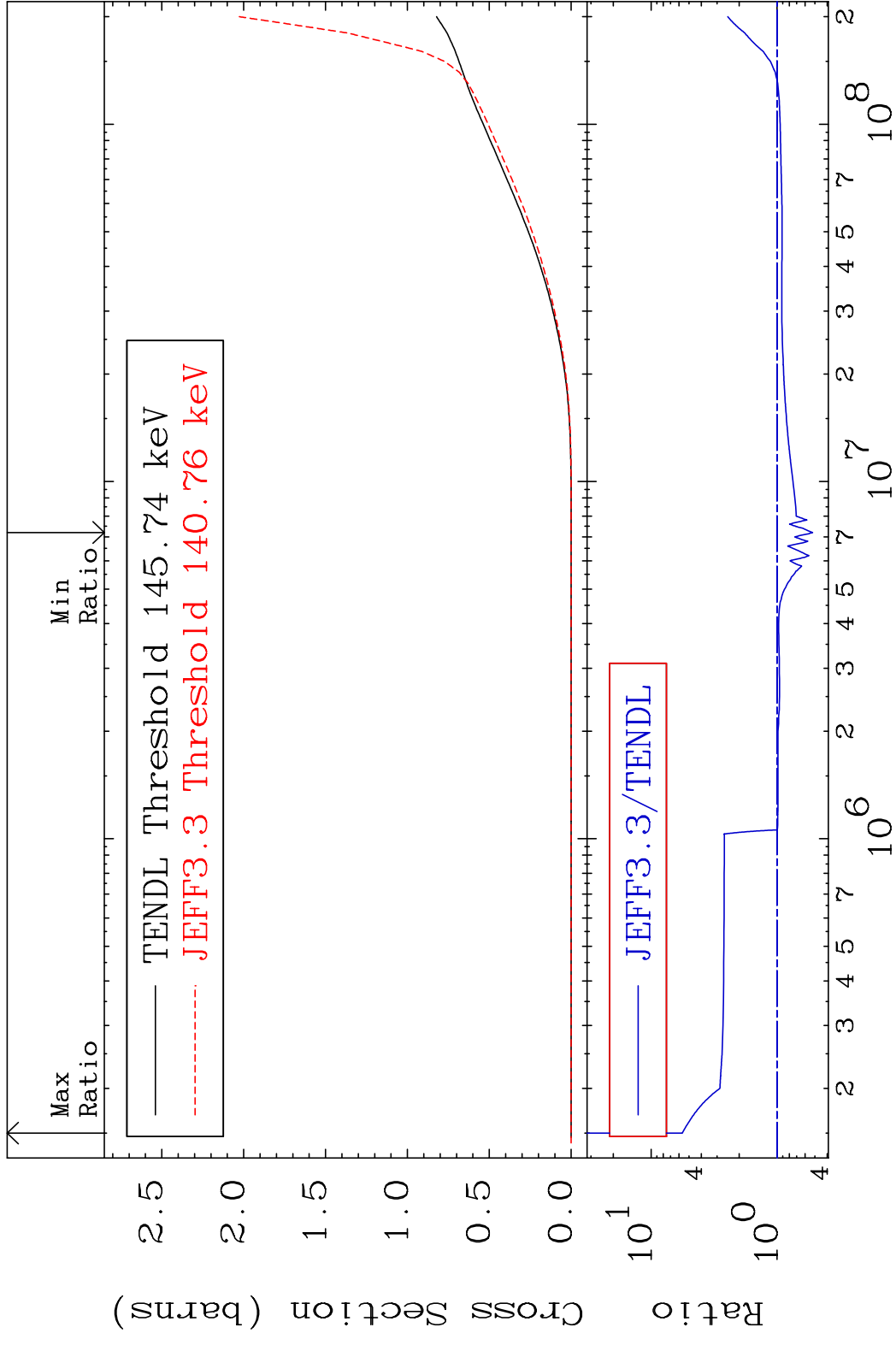


60 Incident Energy (eV) 60-Nd-145

MAT 6034 Dpa disappearance (mt102 -120) 60-Nd-145
 Cross Section -99.16 To 9999. %



MAT 6034 Hydrogen Production 60-Nd-145
 Cross Section -47.76 To 464.9 %

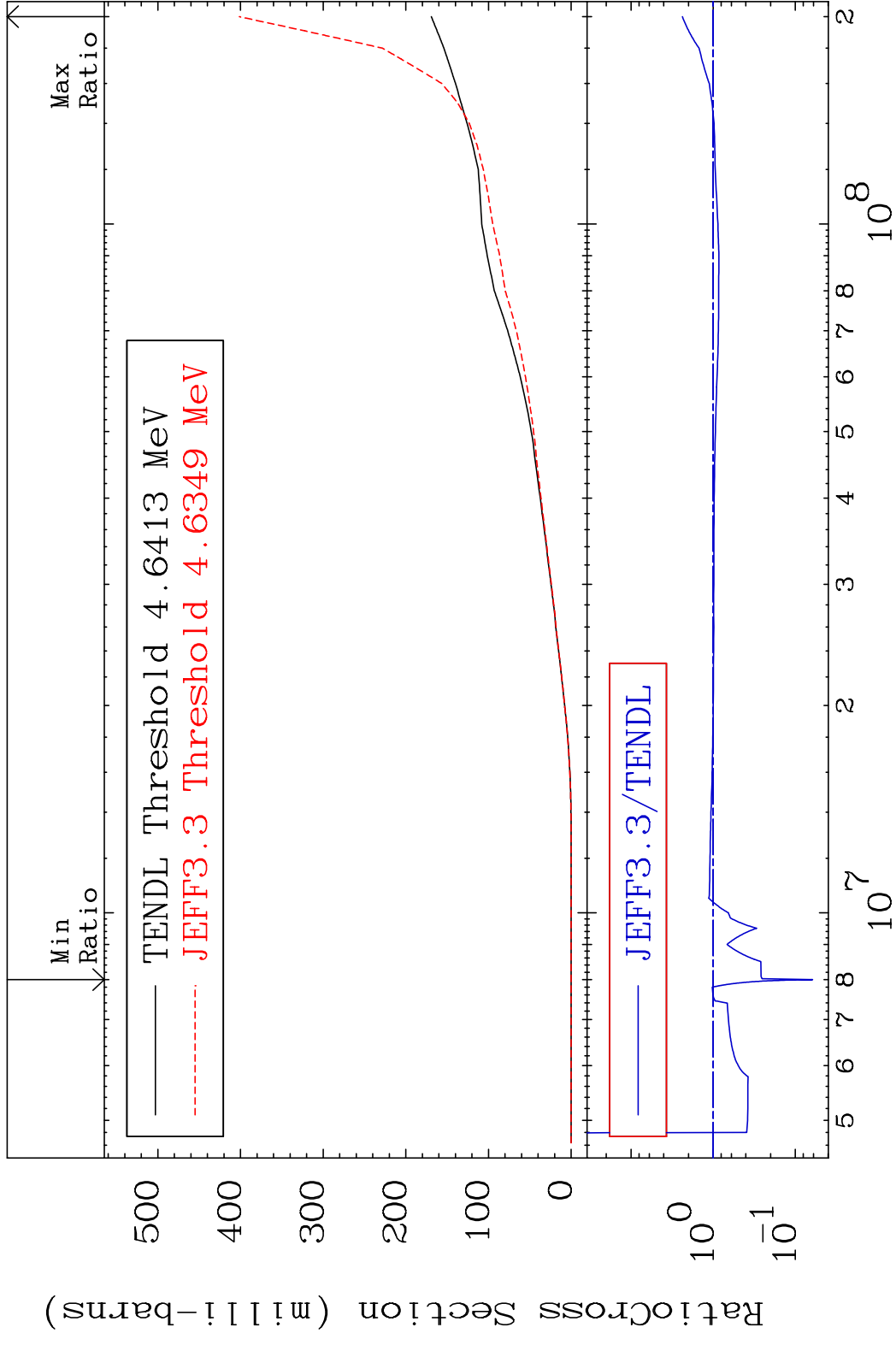


MAT 6034

Deuterium Production

60-Nd-145

Cross Section -93.82 To 137.3 %



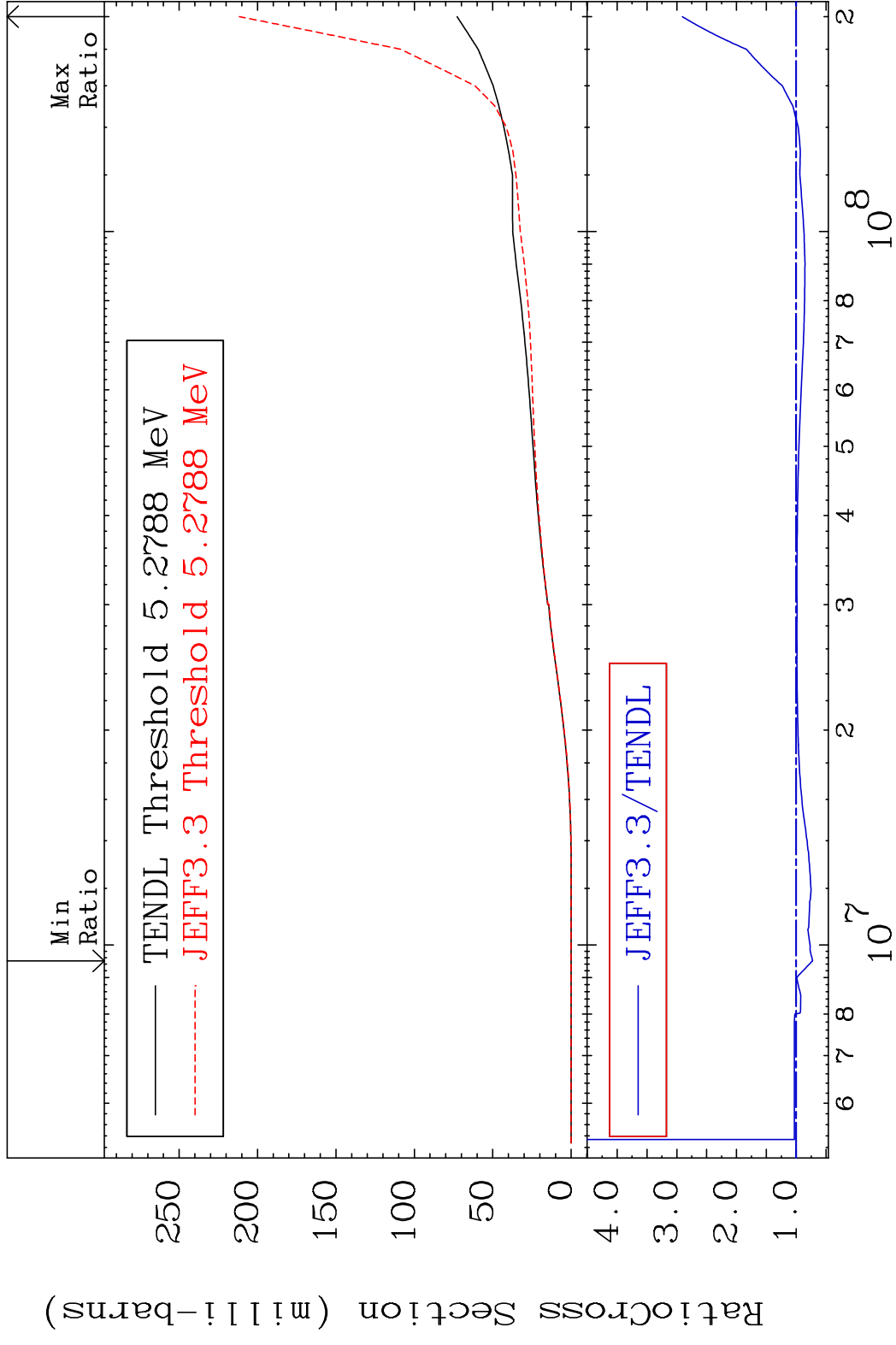
63

Incident Energy (eV)

60-Nd-145

MAT 6034

Tritium Production 60-Nd-145
Cross Section -27.34 To 190.7 %



64

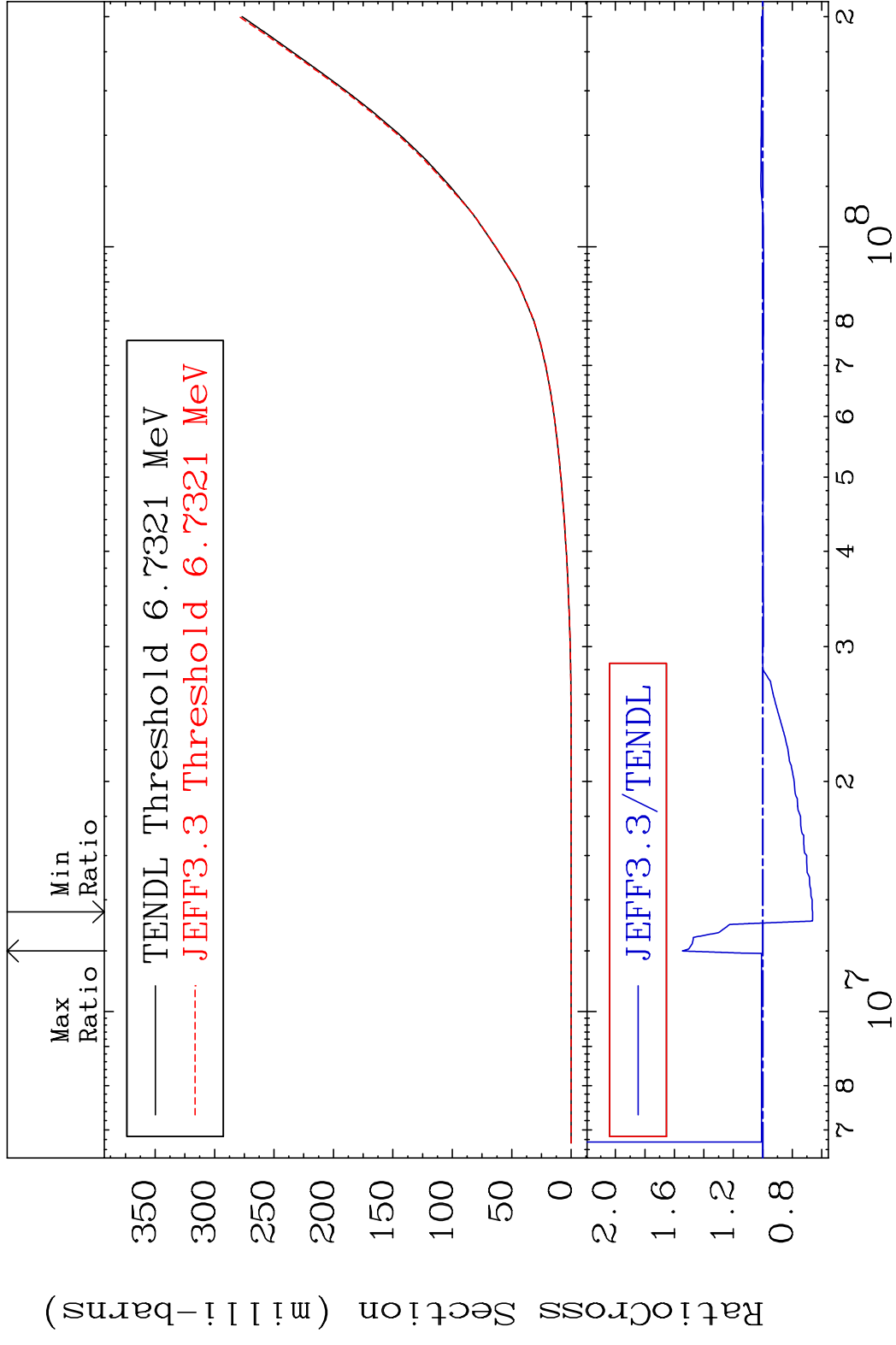
Incident Energy (eV) 60-Nd-145

MAT 6034

He-3 Production

60-Nd-145

Cross Section -33.77 To 54.58 %



65

Incident Energy (eV)

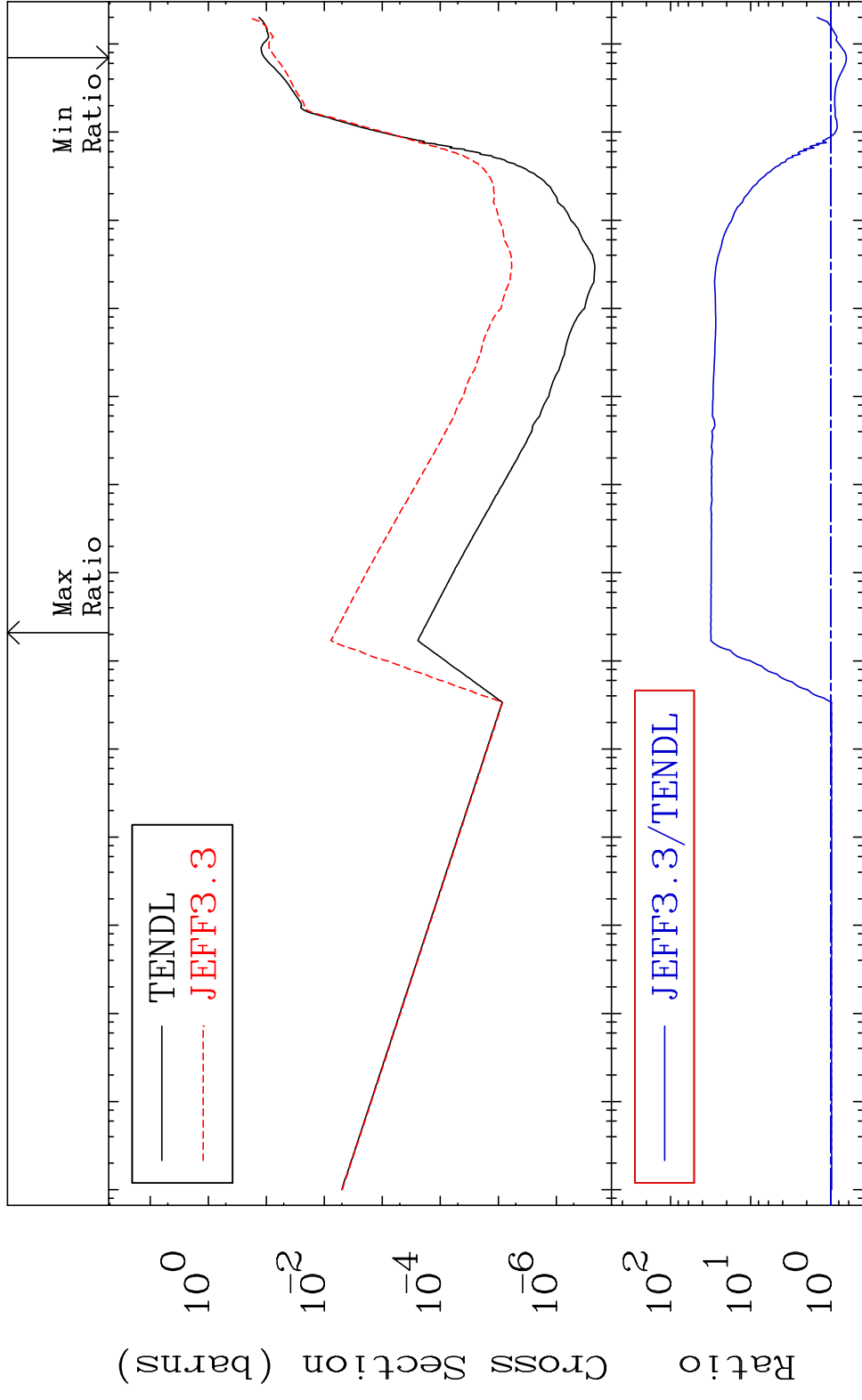
60-Nd-145

MAT 6034

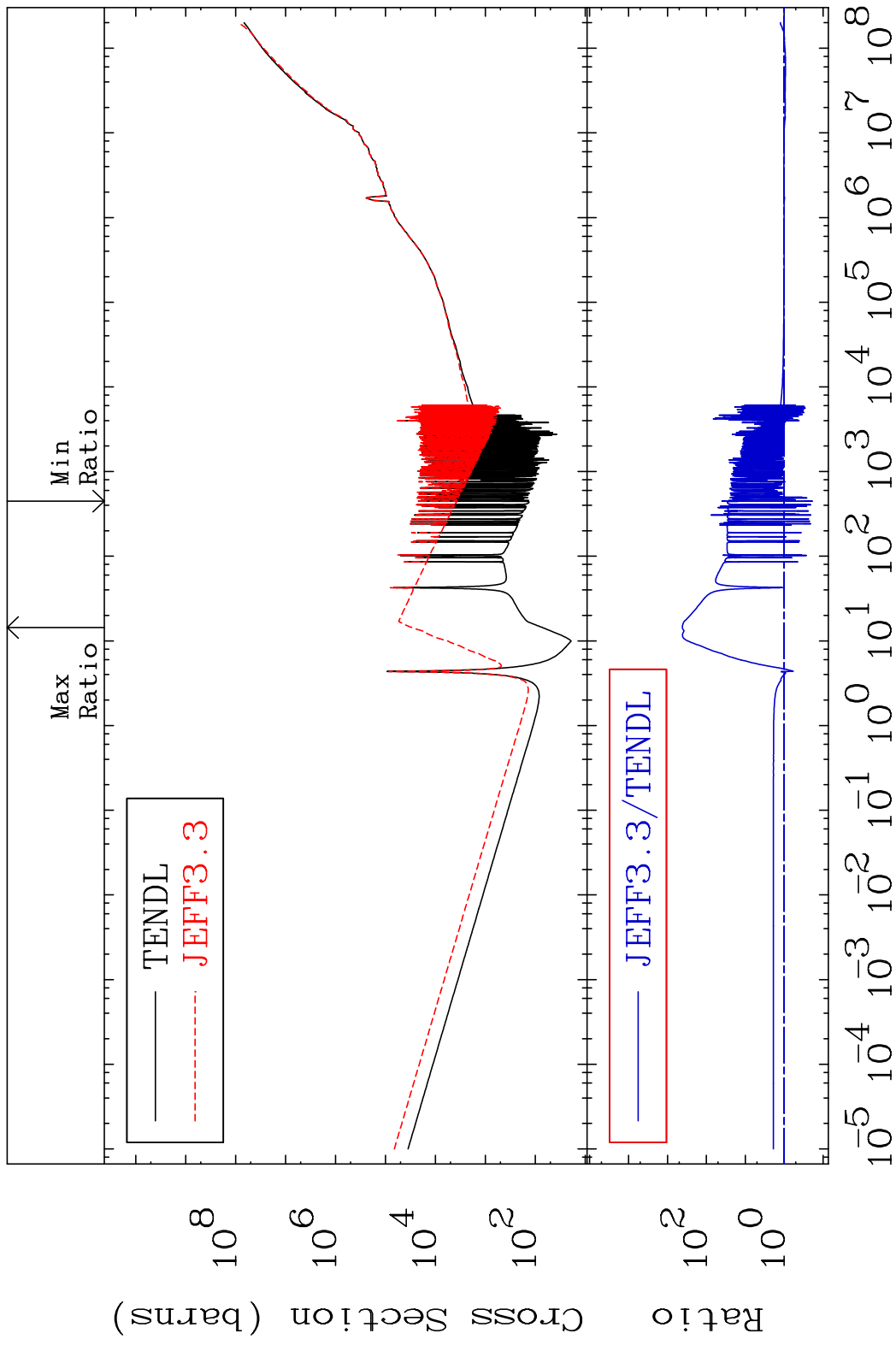
He-4 Production

60-Nd-145

Cross Section -35.80 To 3055. %



MAT 6034 Kerma total (eV-barns) 60-Nd-145
 Cross Section -81.43 To 9999. %

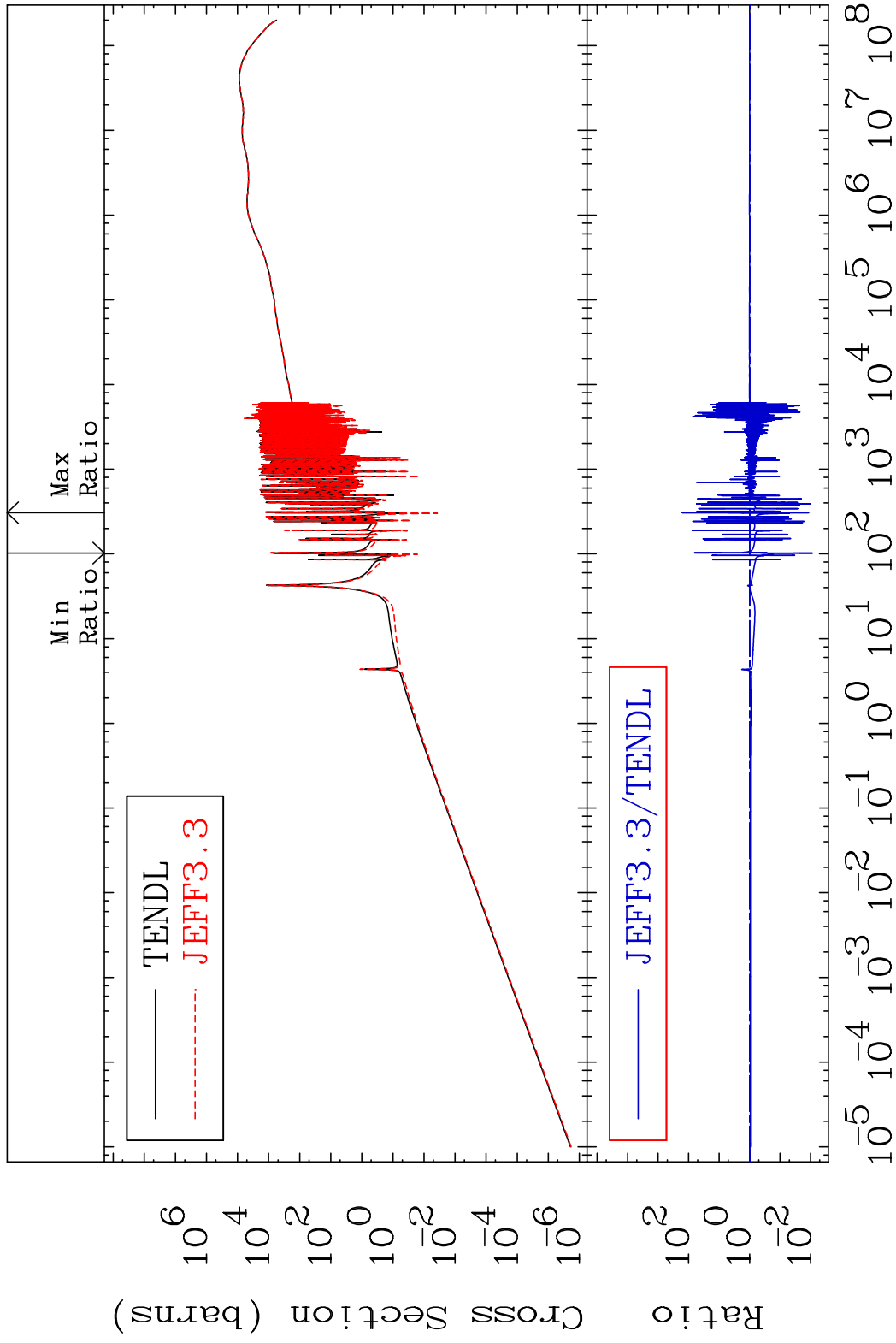


67 Incident Energy (eV) 60-Nd-145

MAT 6034

Kerma elastic
Cross Section

60-Nd-145
-99.14 To 9999. %

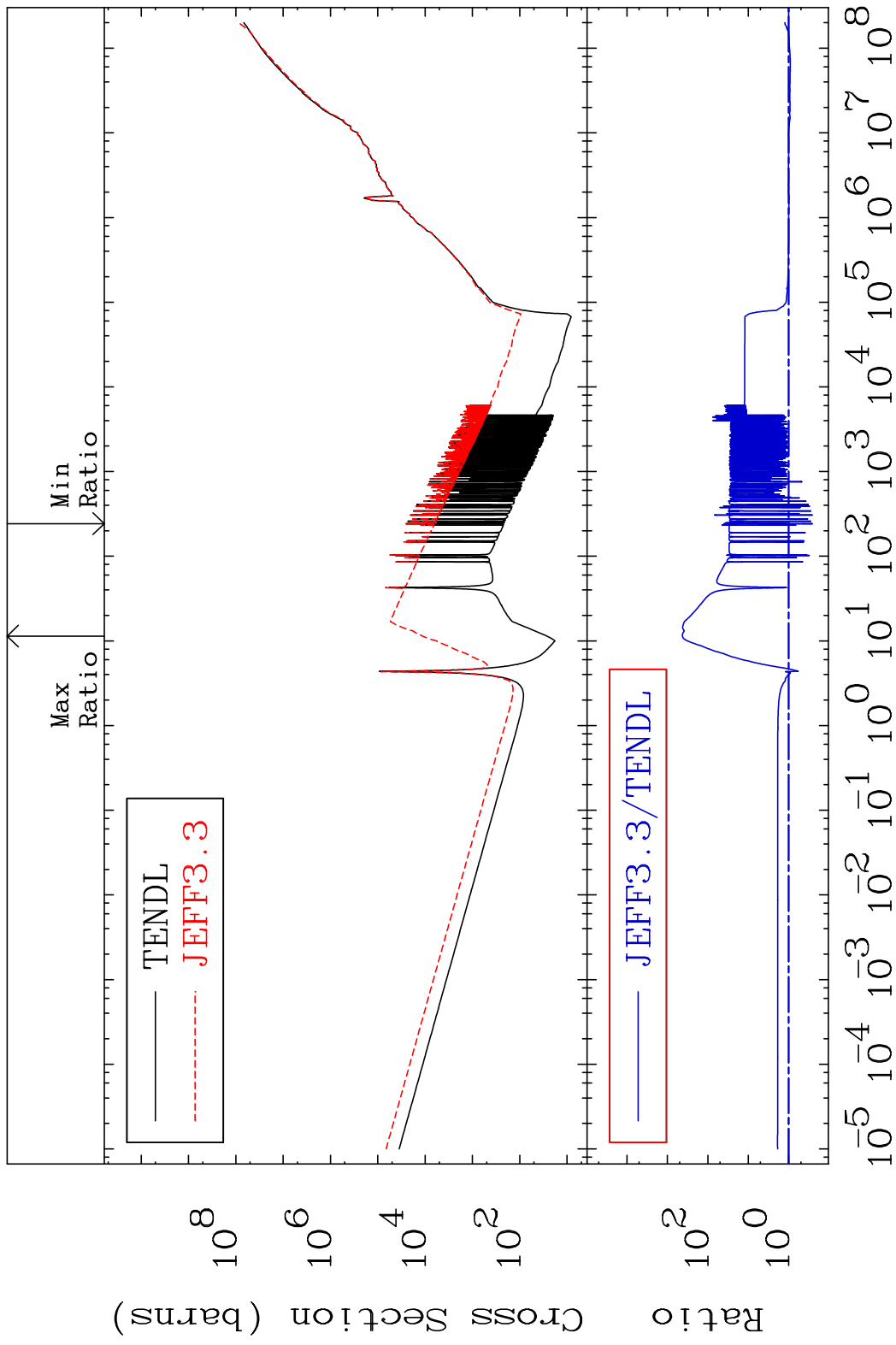


68

Incident Energy (eV)

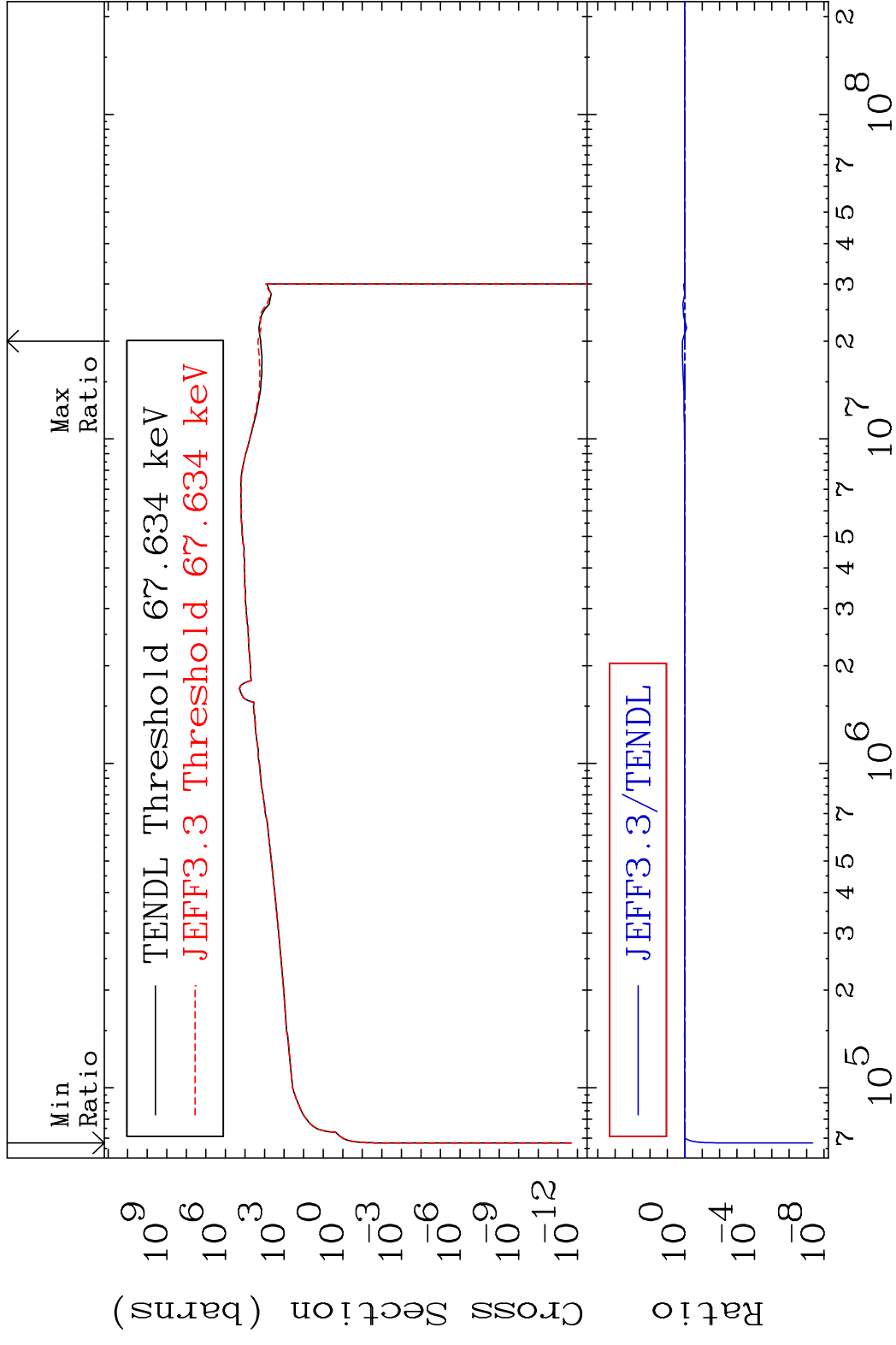
60-Nd-145

MAT 6034 Kerma non-elastic (all but mt2) 60-Nd-145
 Cross Section -74.21 To 9999. %



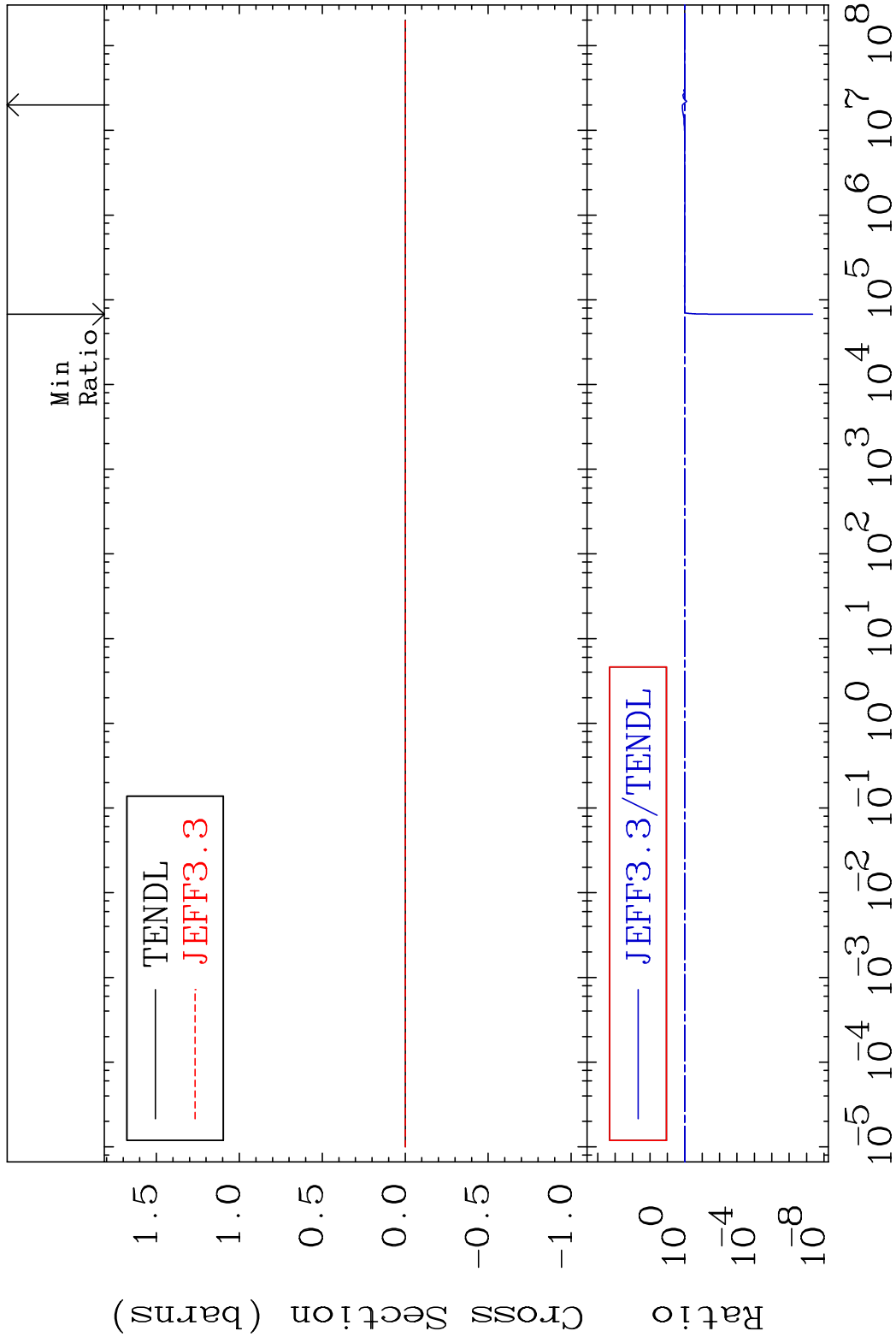
69 Incident Energy (eV) 60-Nd-145

MAT 6034 Kerma inelastic (mt51-91) 60-Nd-145
 Cross Section -100.0 To 37.22 %

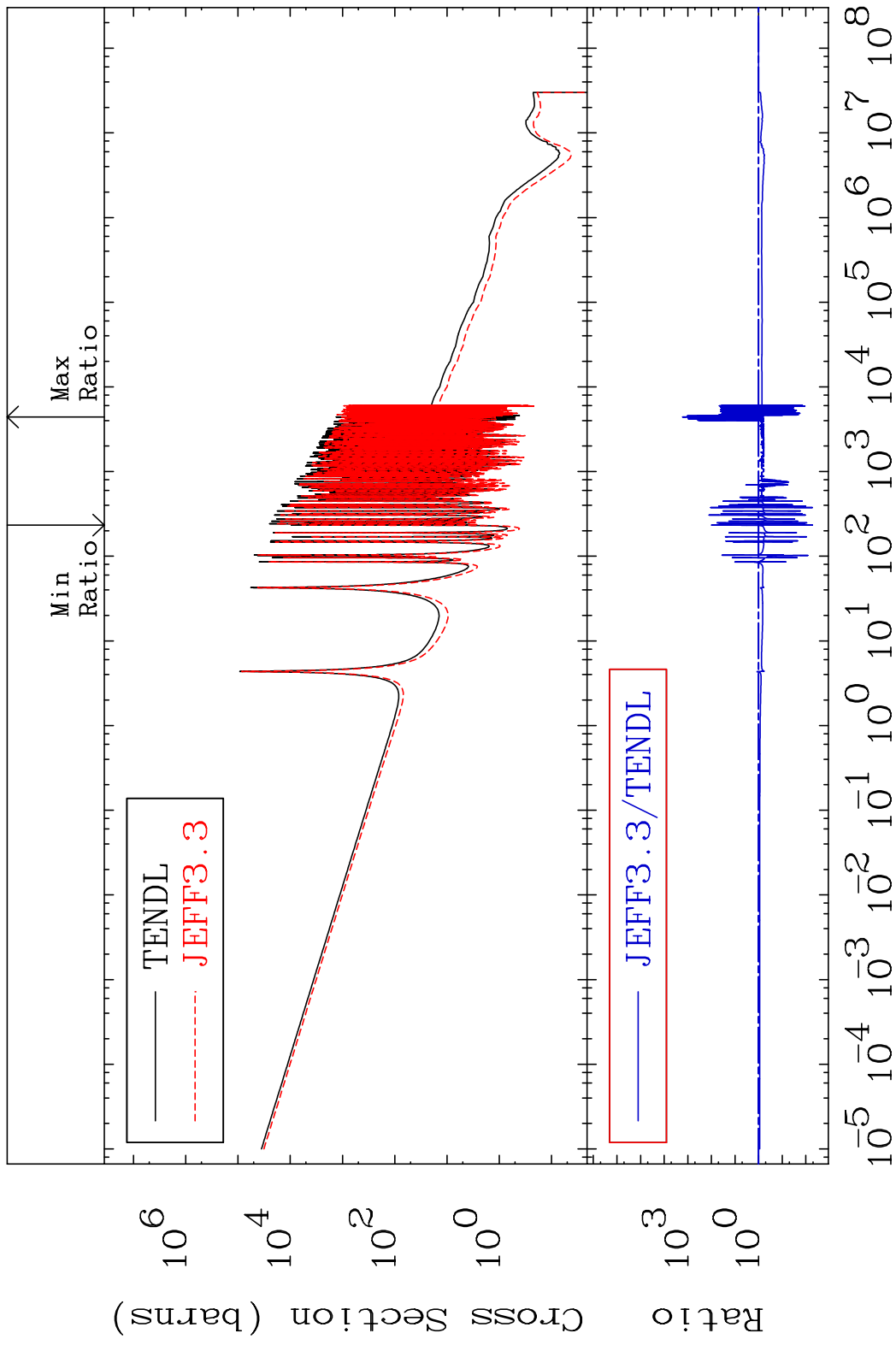


70 Incident Energy (eV) 60-Nd-145

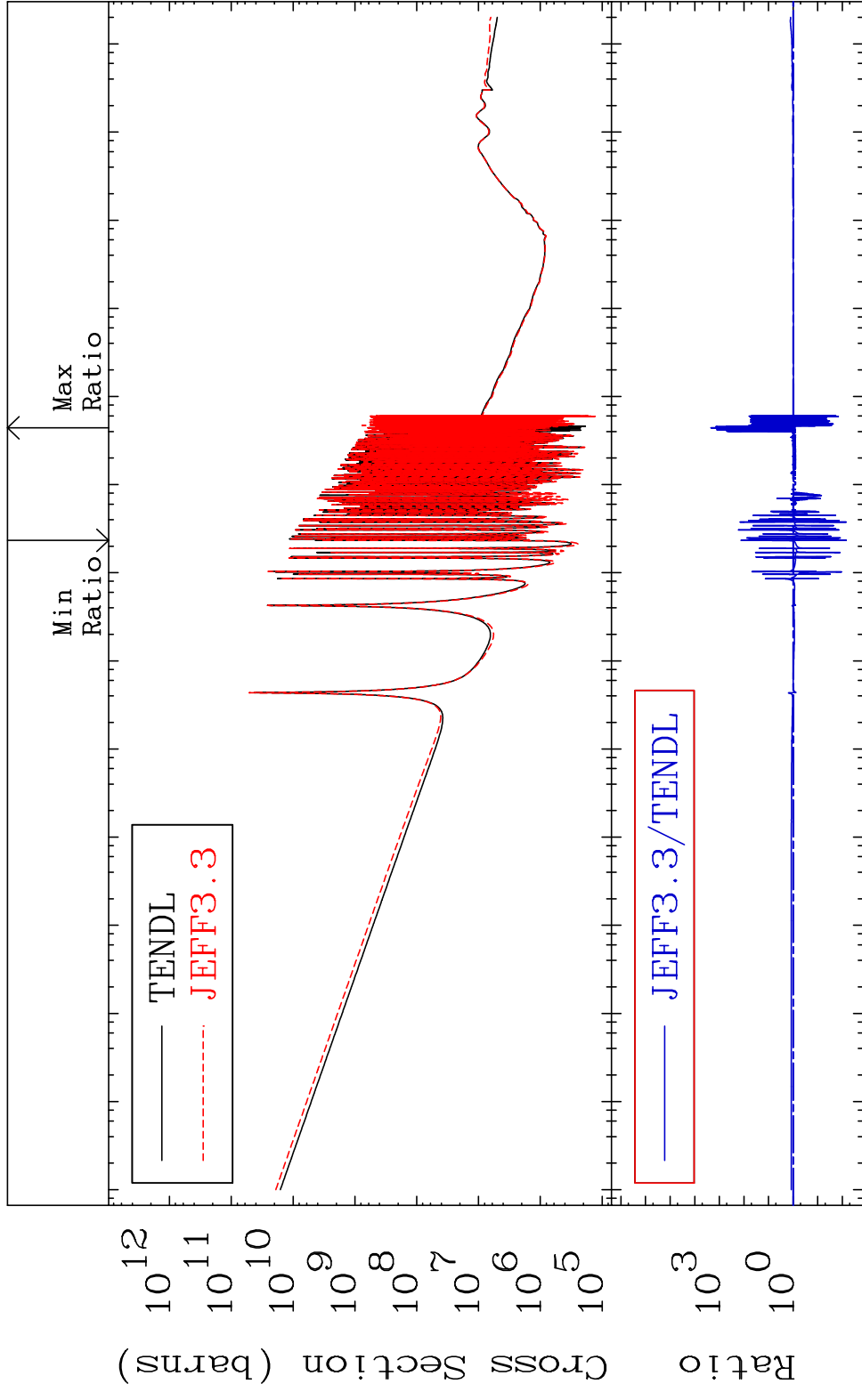
MAT 6034 Kerma fission (mt18 or mt19-20-21-38) ^{60}Nd -145
 Cross Section -100.0 To 37.22 %



MAT 6034 Kerma capture (mt102) 60-Nd-145
 Cross Section -99.48 To 9999. %

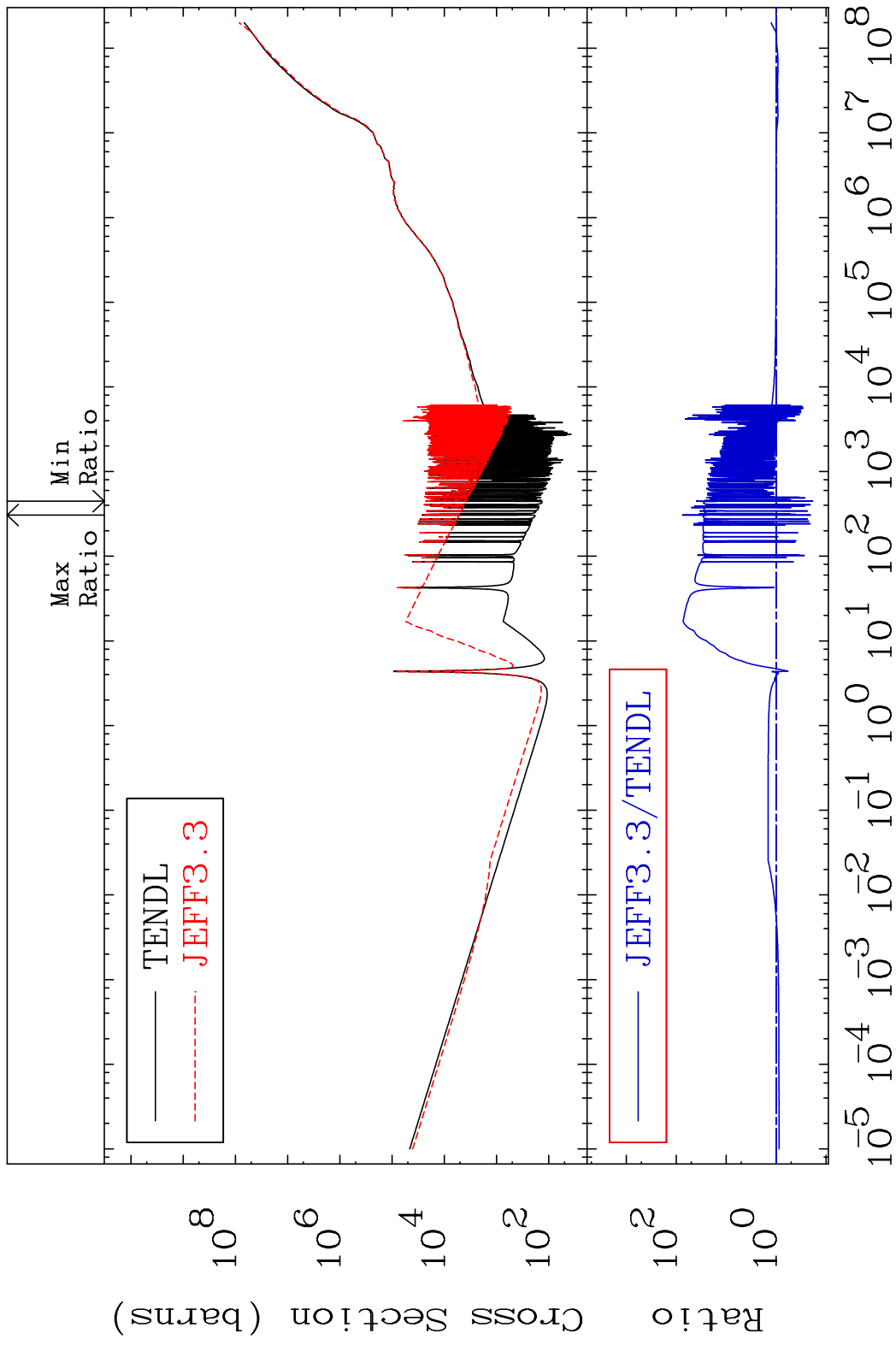


MAT 6034 Total photon (eV-barns) 60-Nd-145
 Cross Section -99.31 To 9999. %



73 Incident Energy (eV) 60-Nd-145

MAT 6034 Total kinematic kerma (high limit) 60-Nd-145
 Cross Section -81.33 To 7470. %

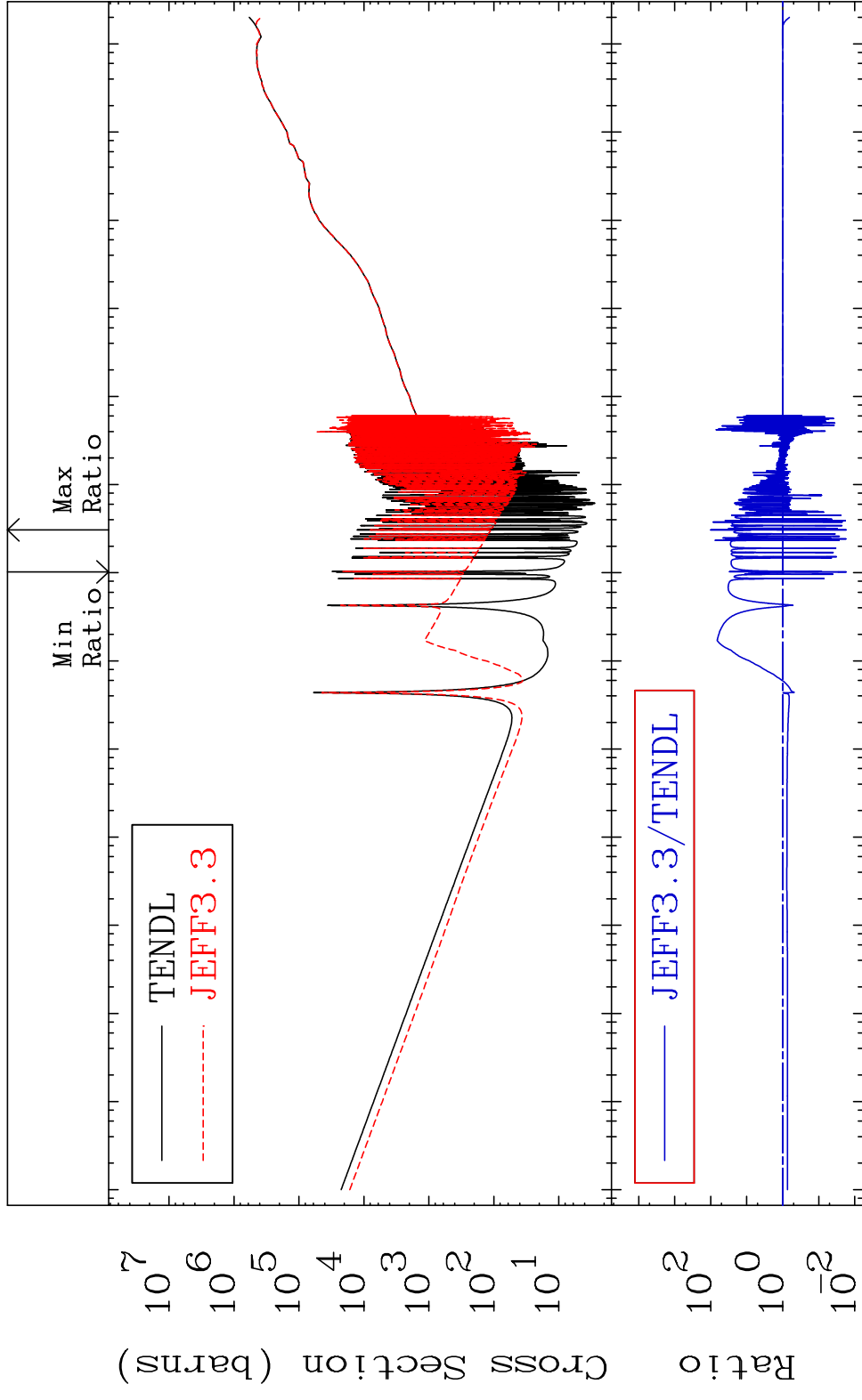


MAT 6034

Dpa total (eV-barns)

60-Nd-145

Cross Section -98.29 To 9901. %



75

Incident Energy (eV)

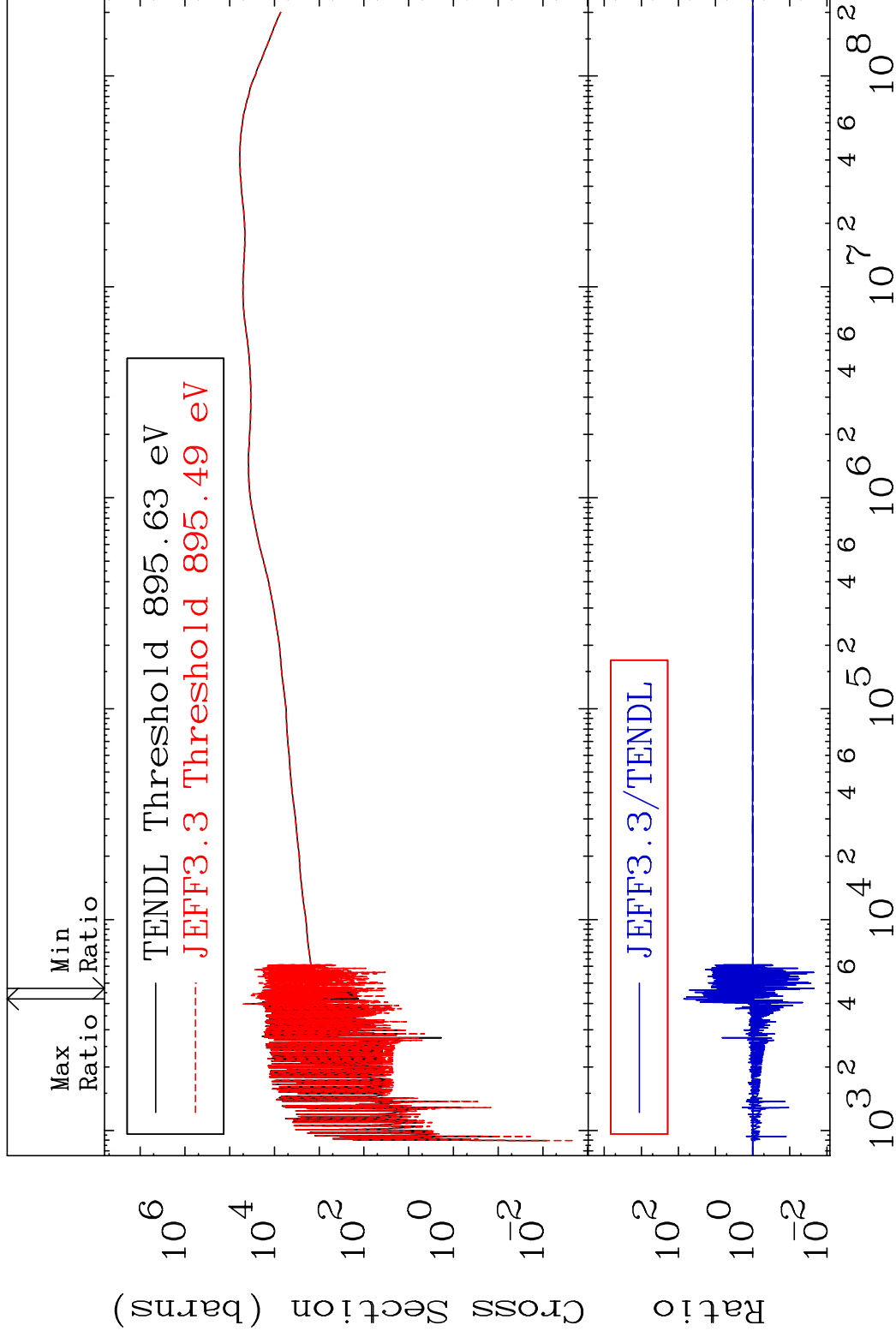
60-Nd-145

MAT 6034

Dpa elastic (mt2)

60-Nd-145

Cross Section -97.80 To 7135. %

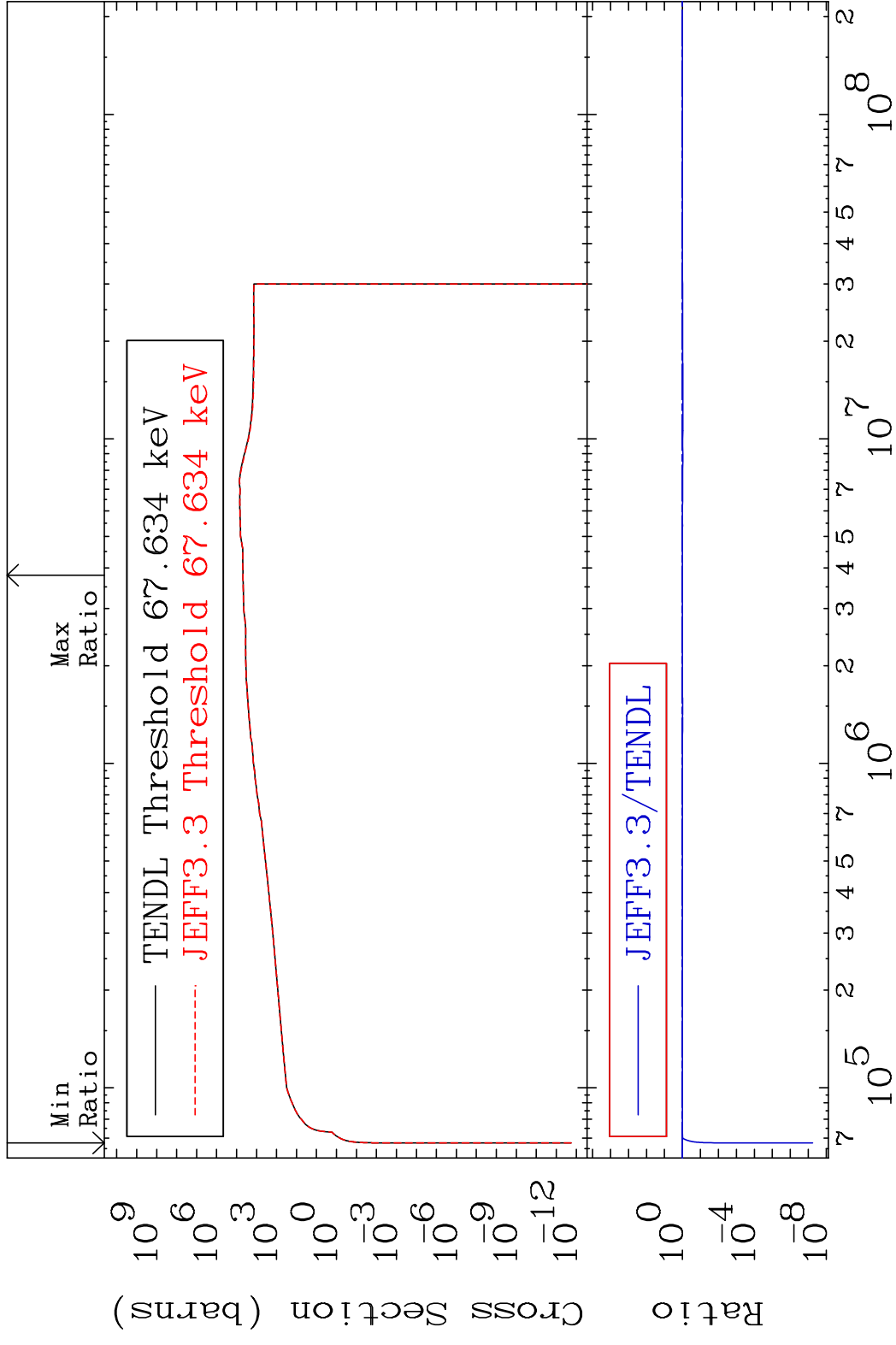


76

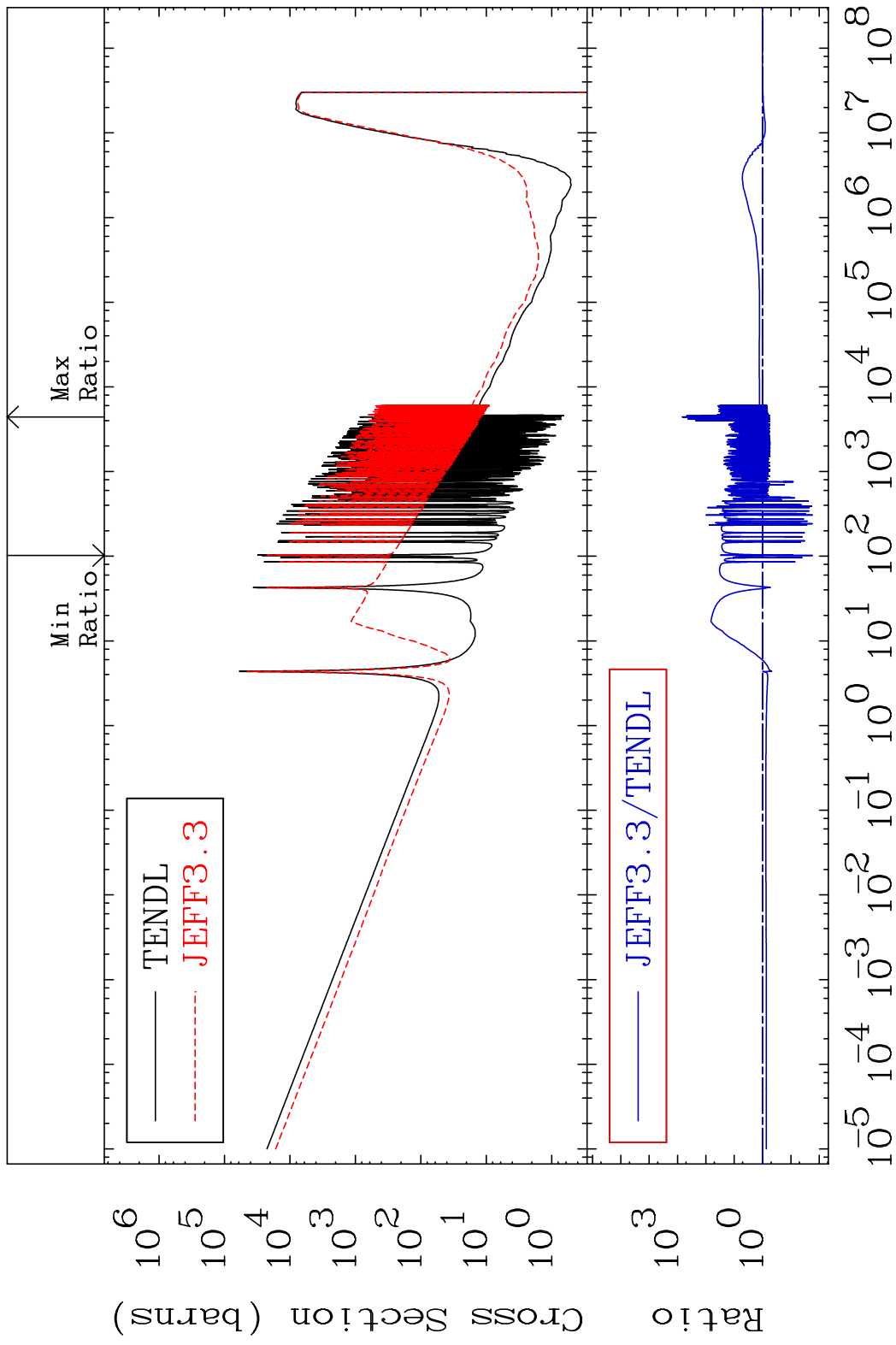
Incident Energy (eV)

60-Nd-145

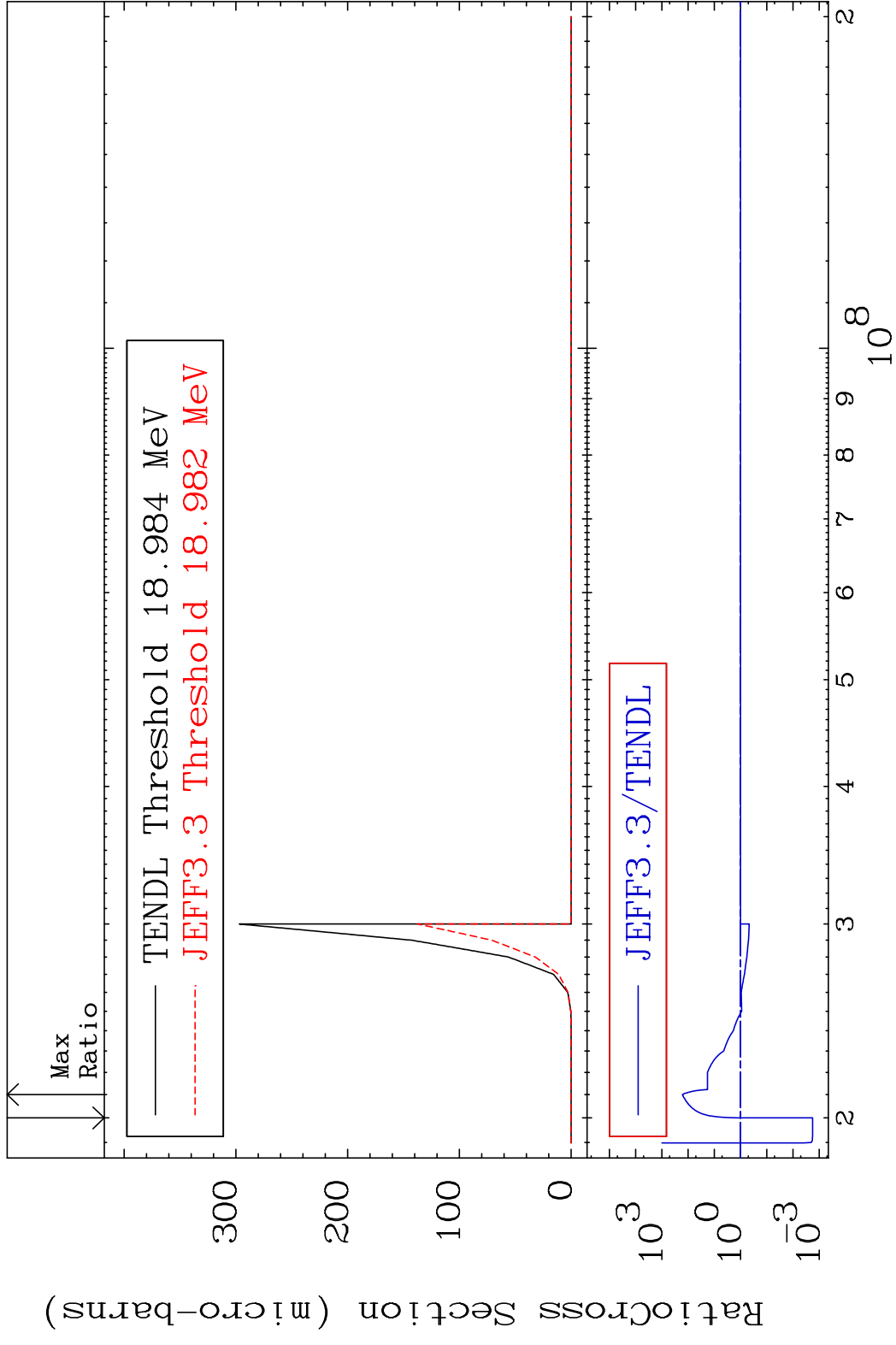
MAT 6034 Dpa inelastic (mt51-91) 60-Nd-145
 Cross Section -100.0 To 1.274 %



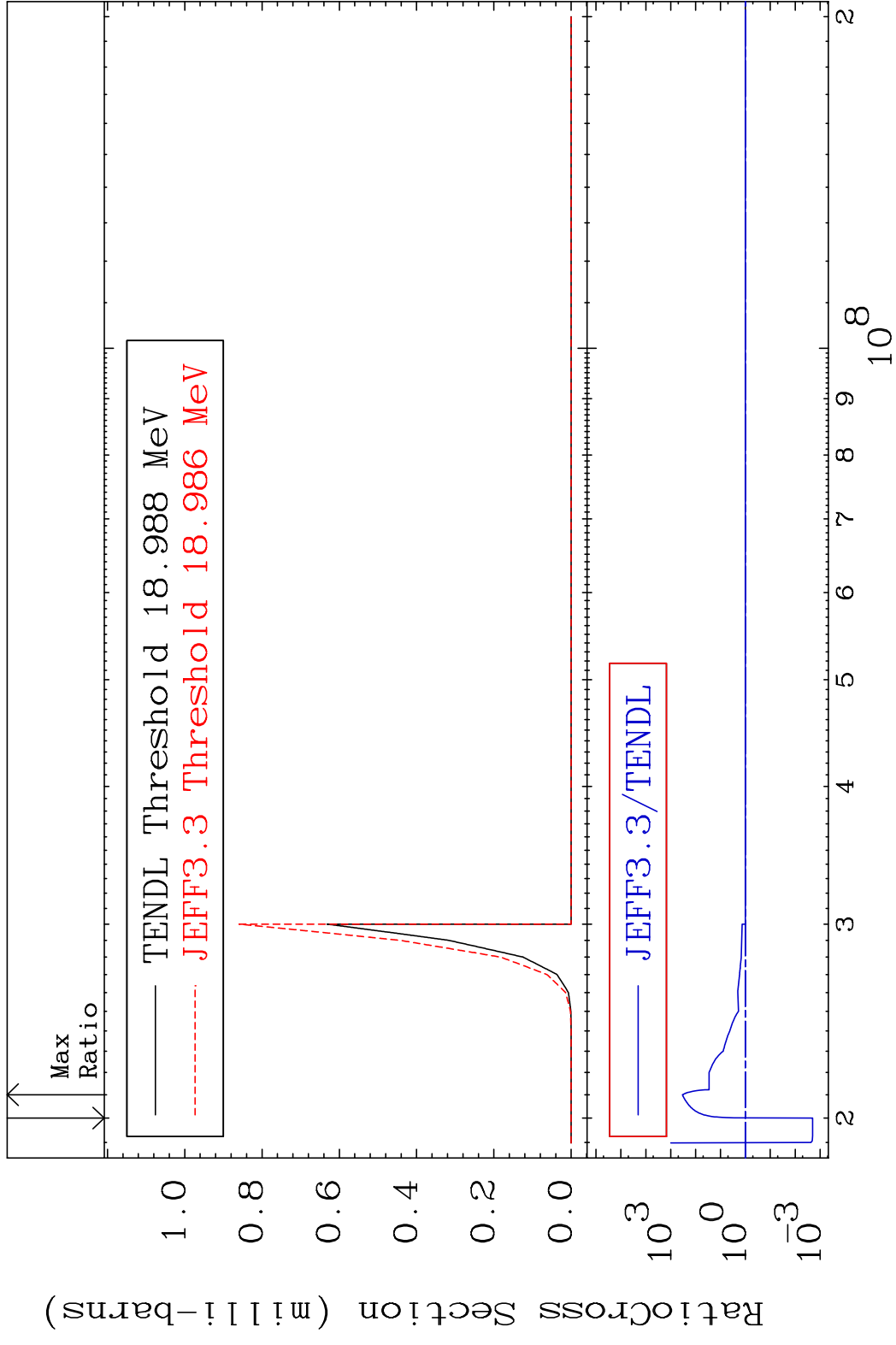
MAT 6034 Dpa disappearance (mt102 -120) 60-Nd-145
 Cross Section -98.29 To 9999. %



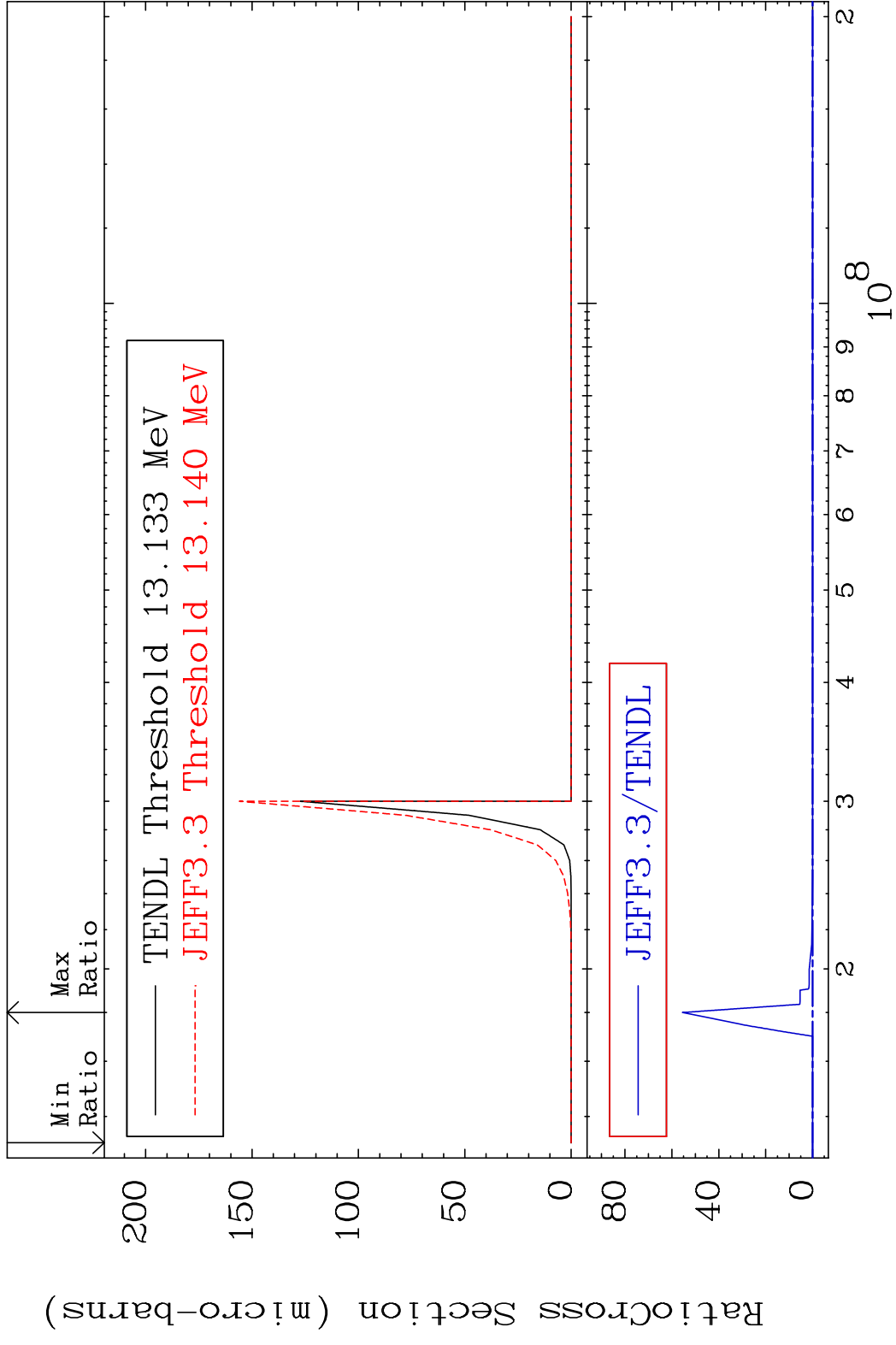
MAT 6034 (n,2n) d:59-Pr-142g 60-Nd-145
 Radionuclide Production Cross Section 99.82 dth 9999. %



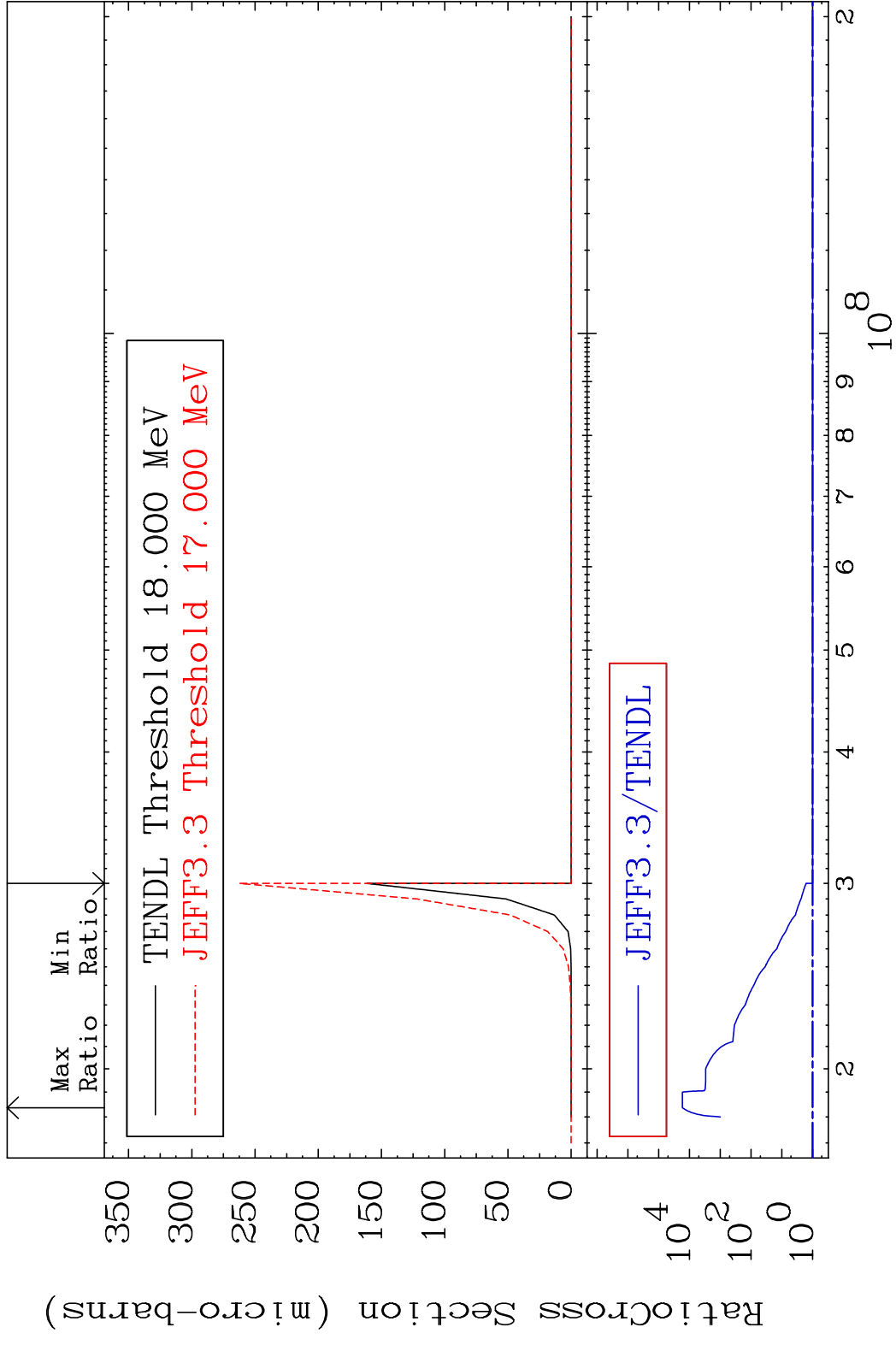
MAT 6034 (n,2n) d:59-Pr-142m1 60-Nd-145
 Radionuclide Production Cross Section to 9999. %



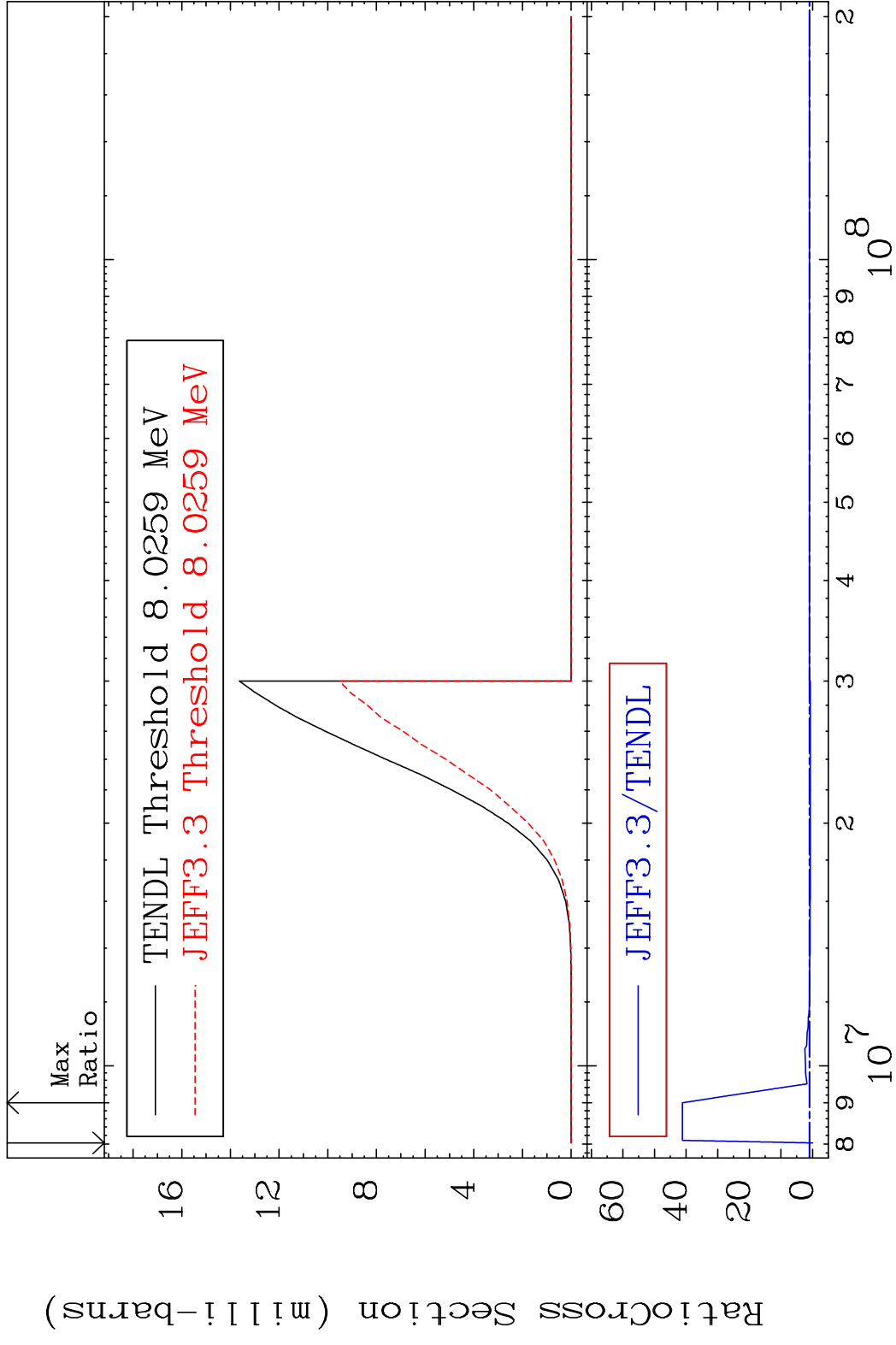
MAT 6034 (n,3n) α :58-Ce-139g 60-Nd-145
 Radionuclide Production Cross Section 1800 d to 9999. %

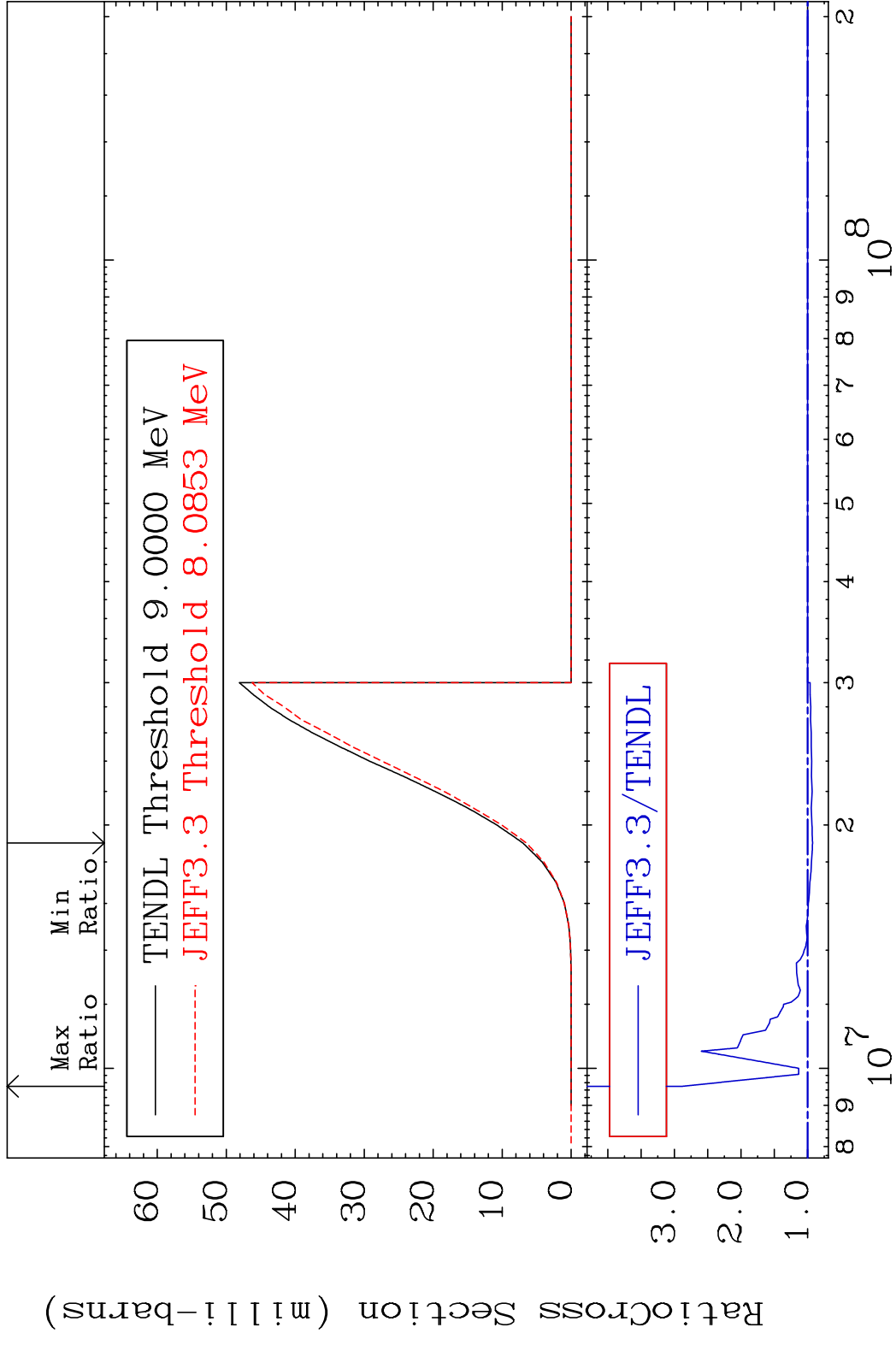


MAT 6034 (n,3n) α :58-Ce-139m2 60-Nd-145
 Radionuclide Production Cross Section 9999. %

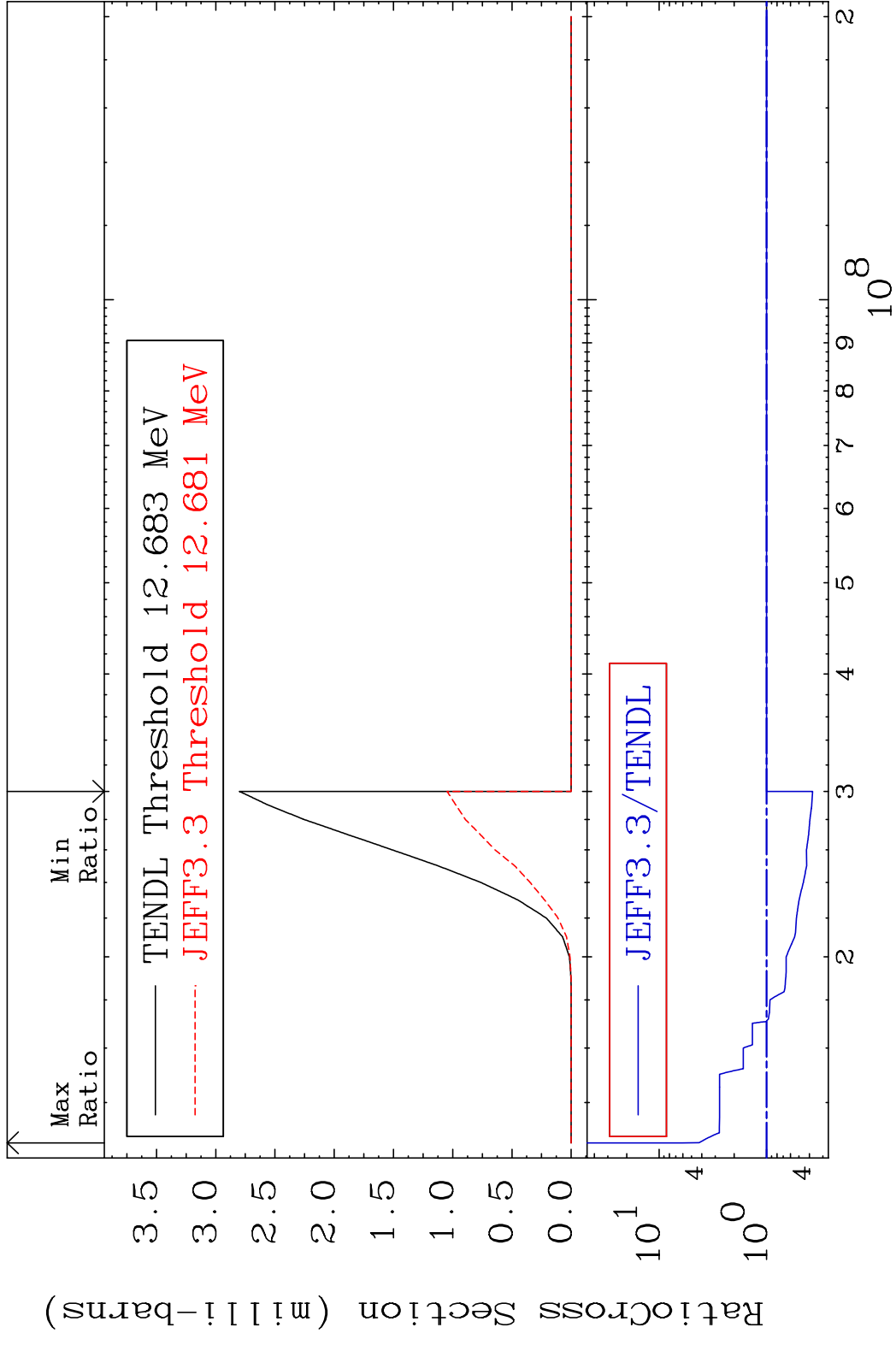


MAT 6034 (n, n') p:59-Pr-144g 60-Nd-145
 Radionuclide Production Cross Section 1800 d to 4019. %



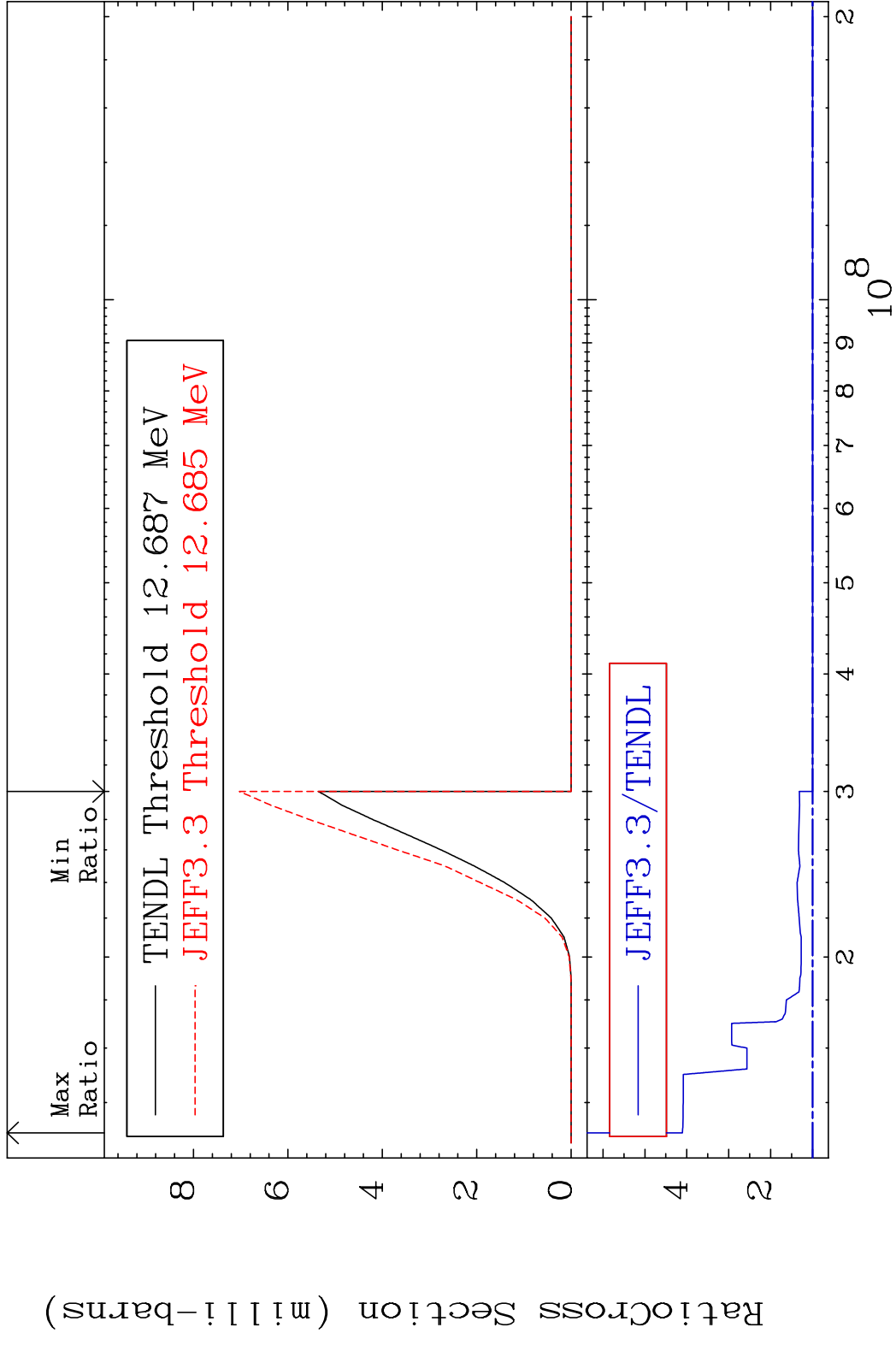


MAT 6034 (n, n') t:59-Pr-142g 60-Nd-145
 Radionuclide Production Cross Section 62.61 dth 507.5 %

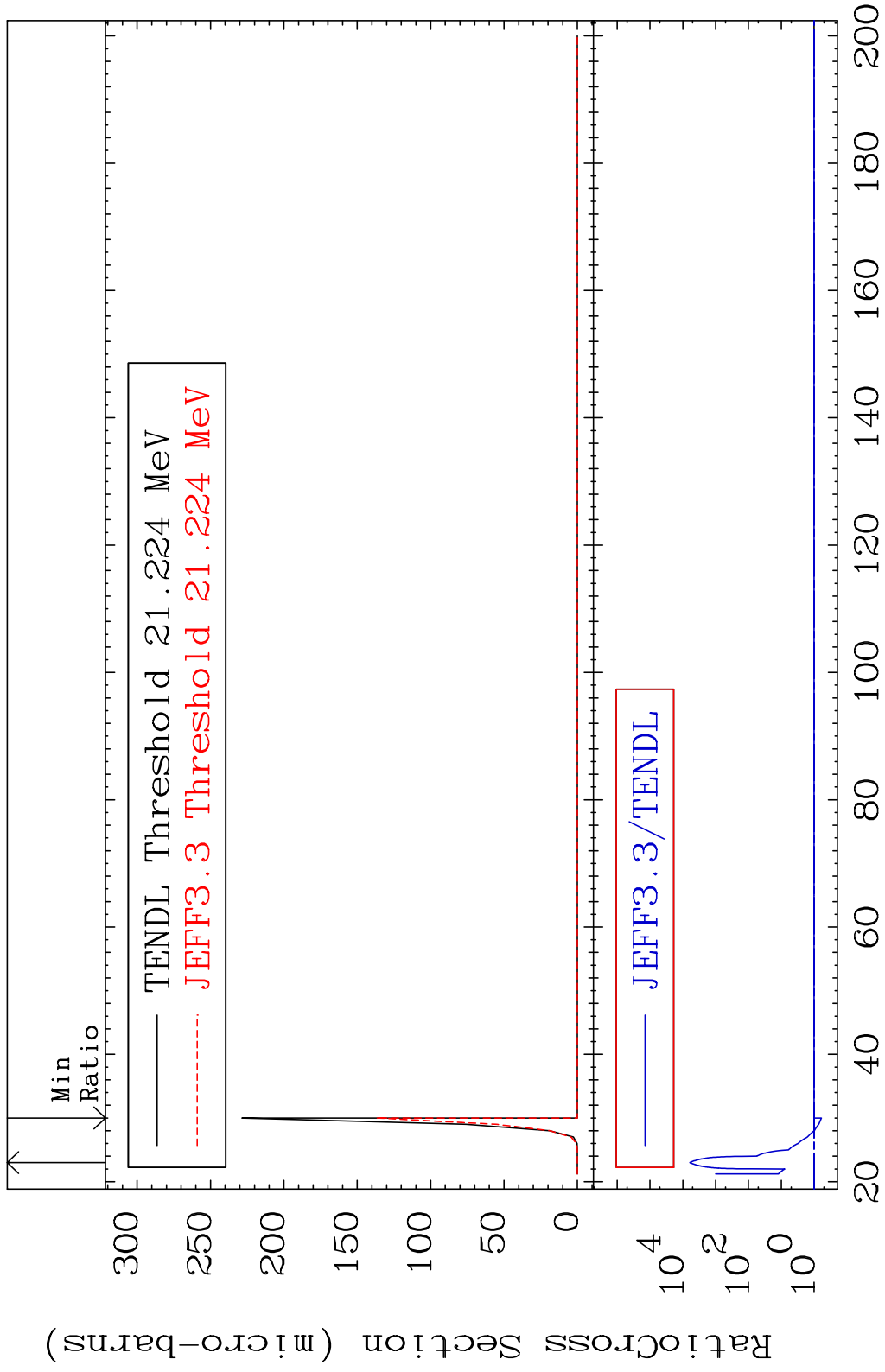


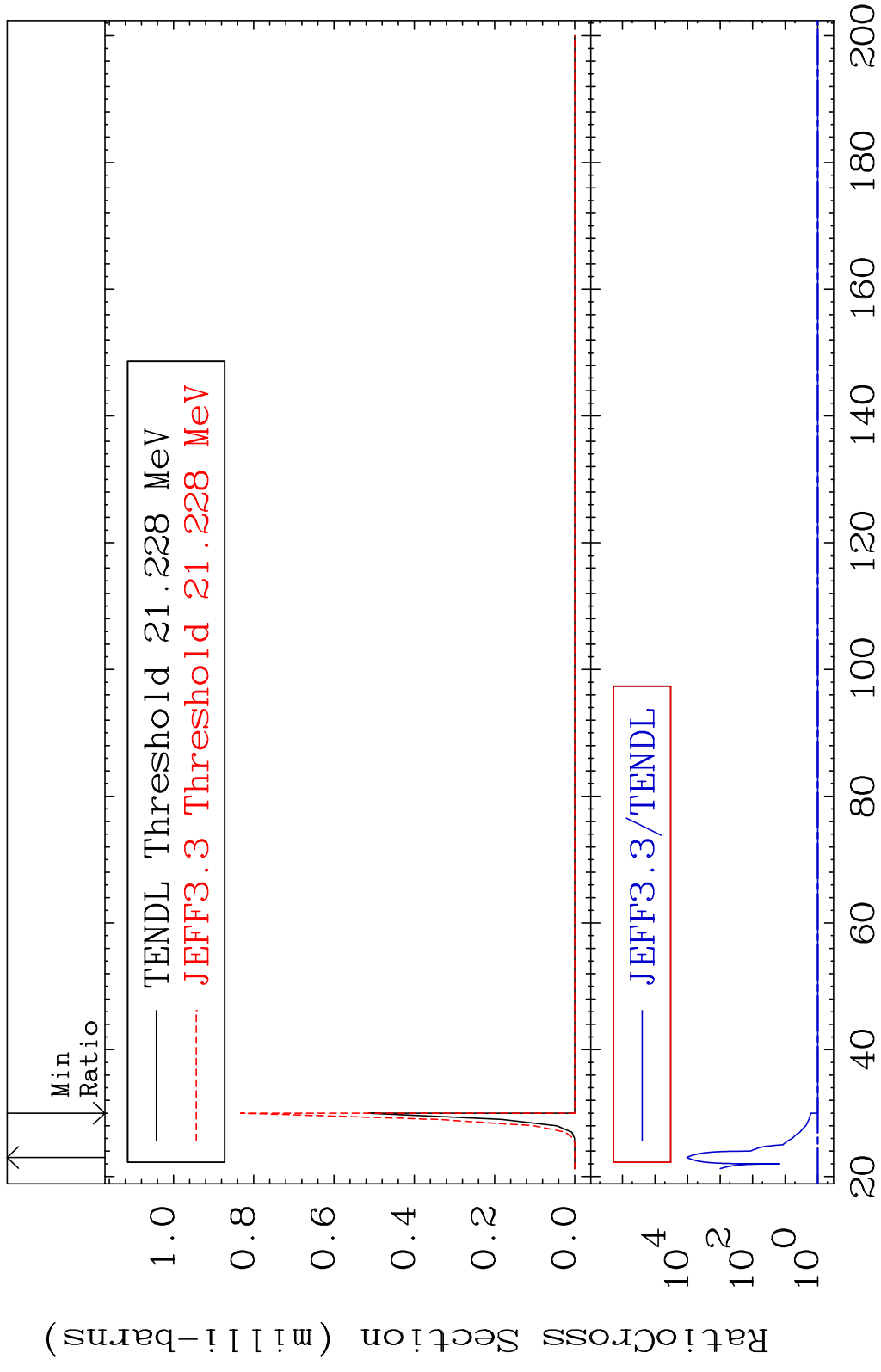
85 Incident Energy (eV) 60-Nd-145

MAT 6034 (n, n') t:59-Pr-142m1 60-Nd-145
 Radionuclide Production Cross Section 310.6 %

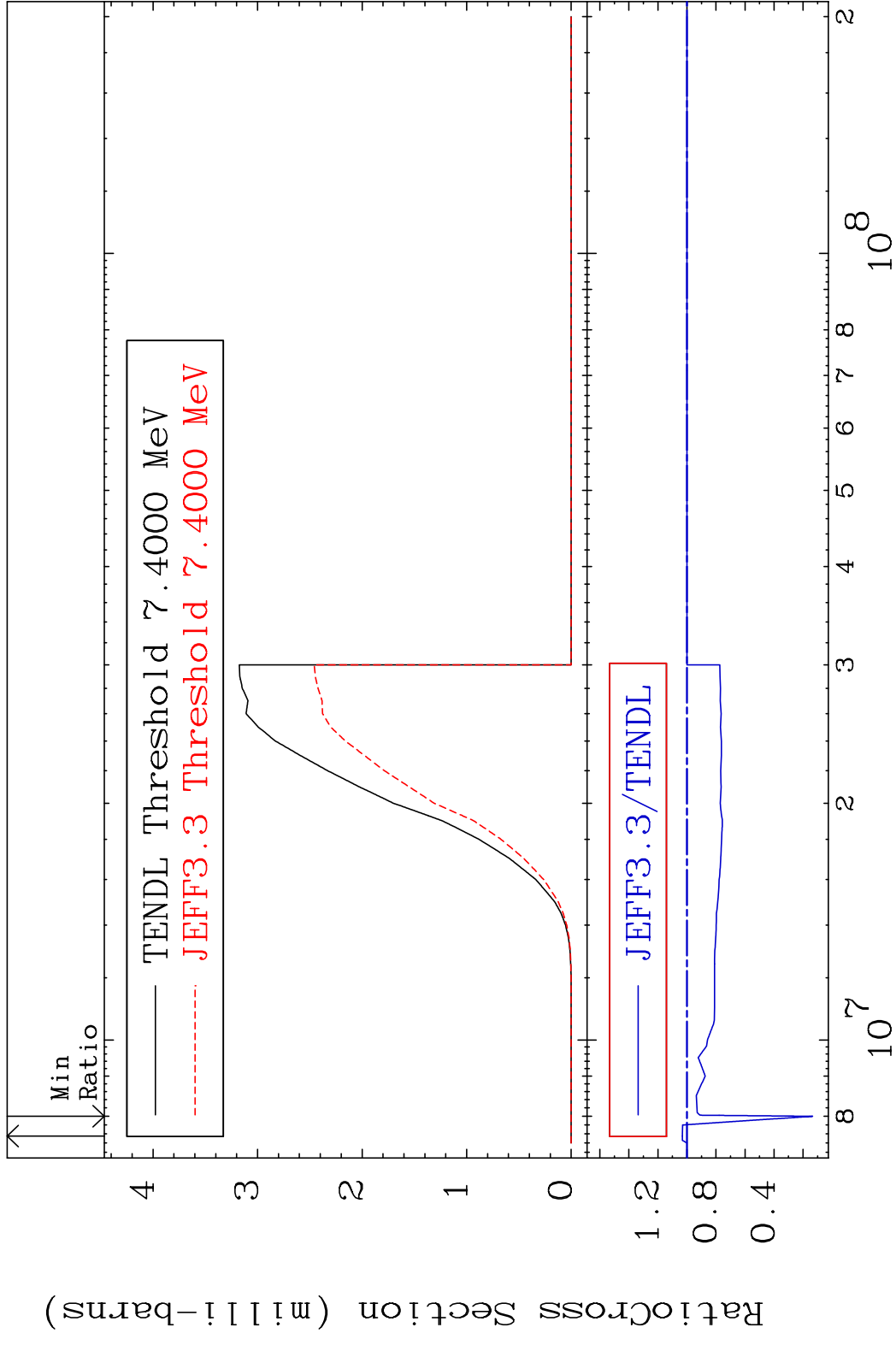


MAT 6034 (n,3n) p:59-Pr-142g 60-Nd-145
 Radionuclide Production Cross Section 48.061 dth 9999. %



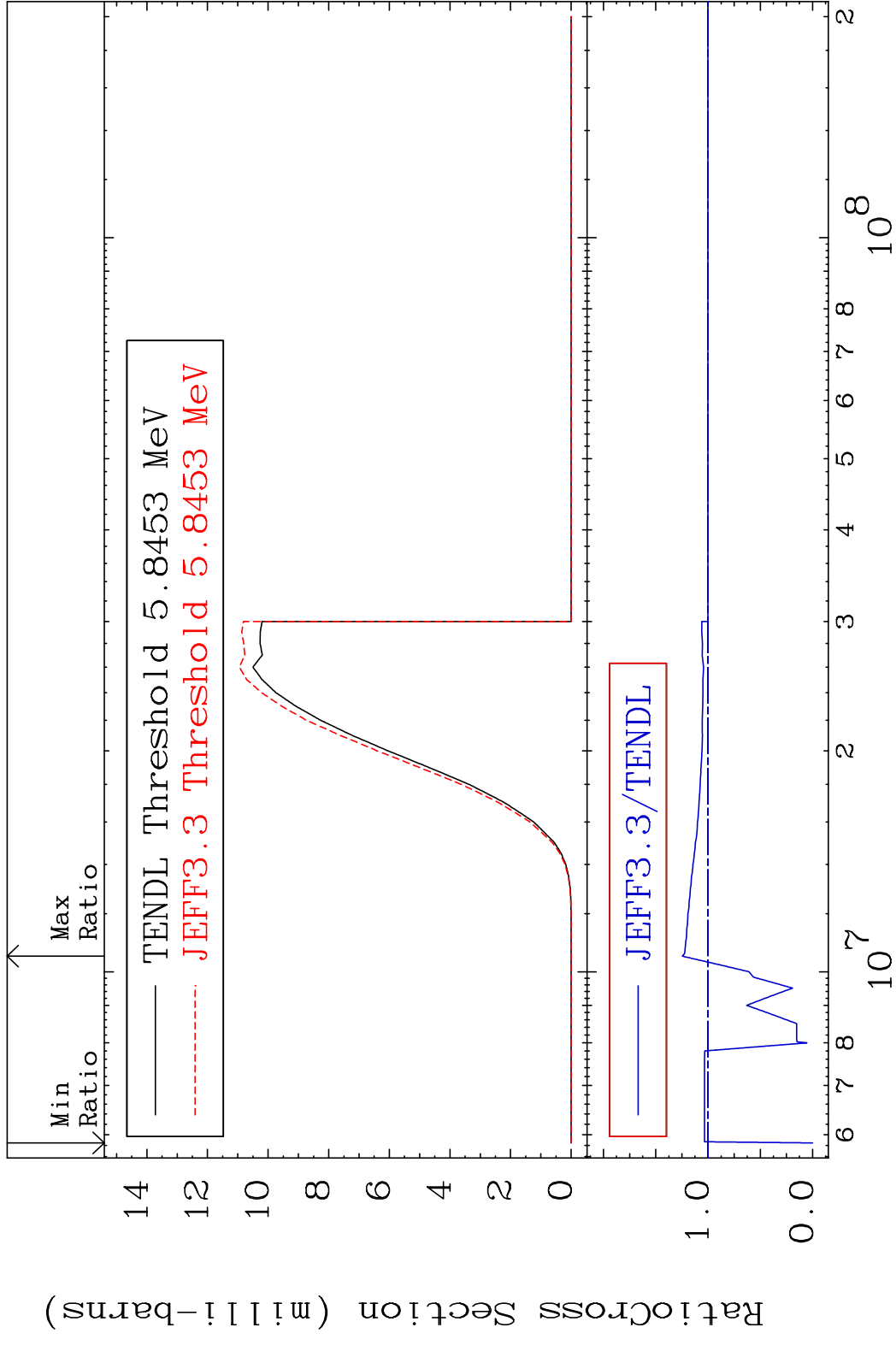


MAT 6034 (n, d):59-Pr-144g 60-Nd-145
 Radionuclide Production Cross Section 3.172 %



89 Incident Energy (eV) 60-Nd-145

MAT 6034 (n, d):59-Pr-144m1 60-Nd-145
 Radionuclide Production Cross Section 180.01 dth 24.56 %



90 Incident Energy (eV) 60-Nd-145