

Program Complot
(Version 2021-1)

by

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(Present Contact Information)

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U.S.A.

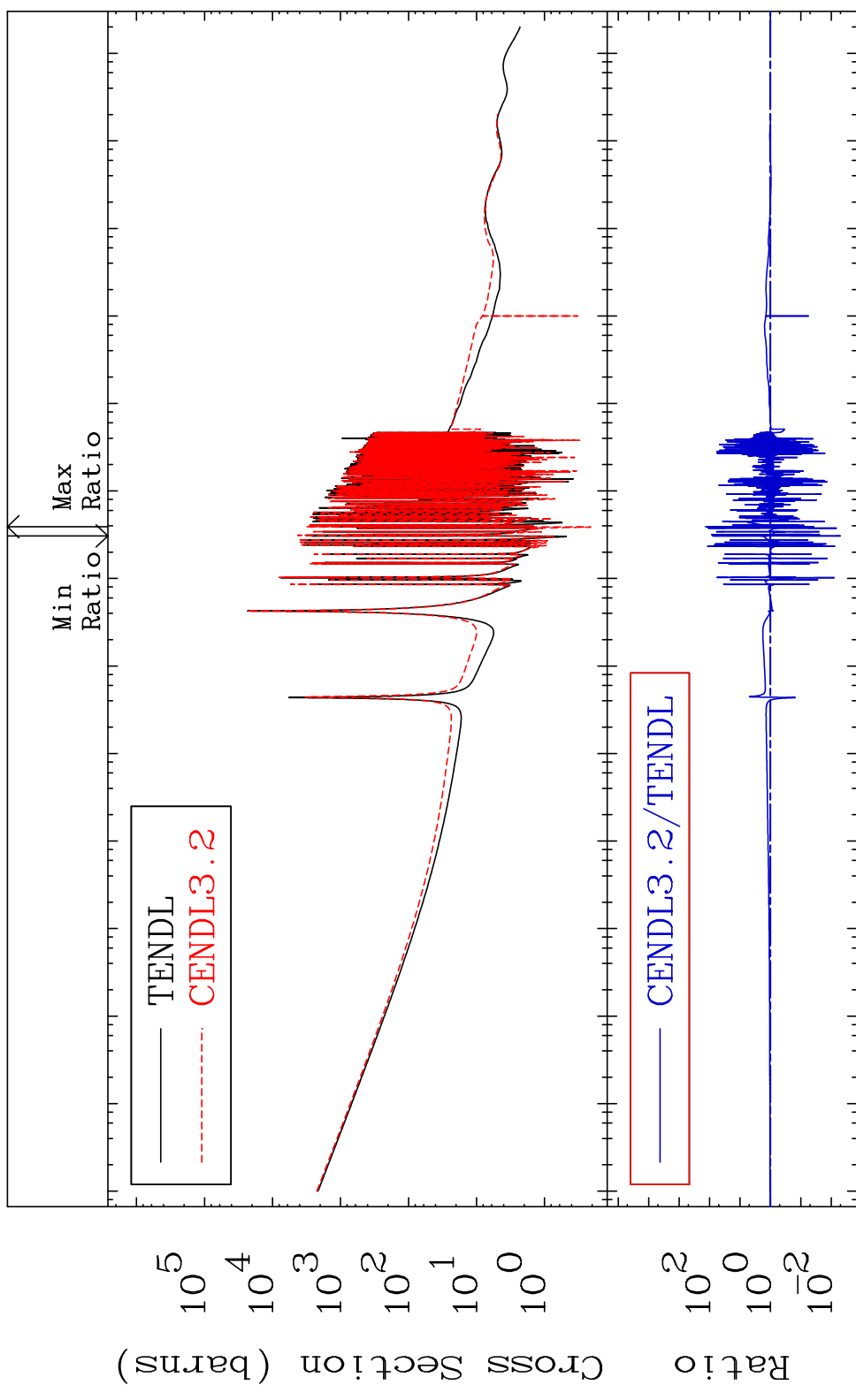
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 6034

Total Cross Section -99.50 To 9999. %
60-Nd-145



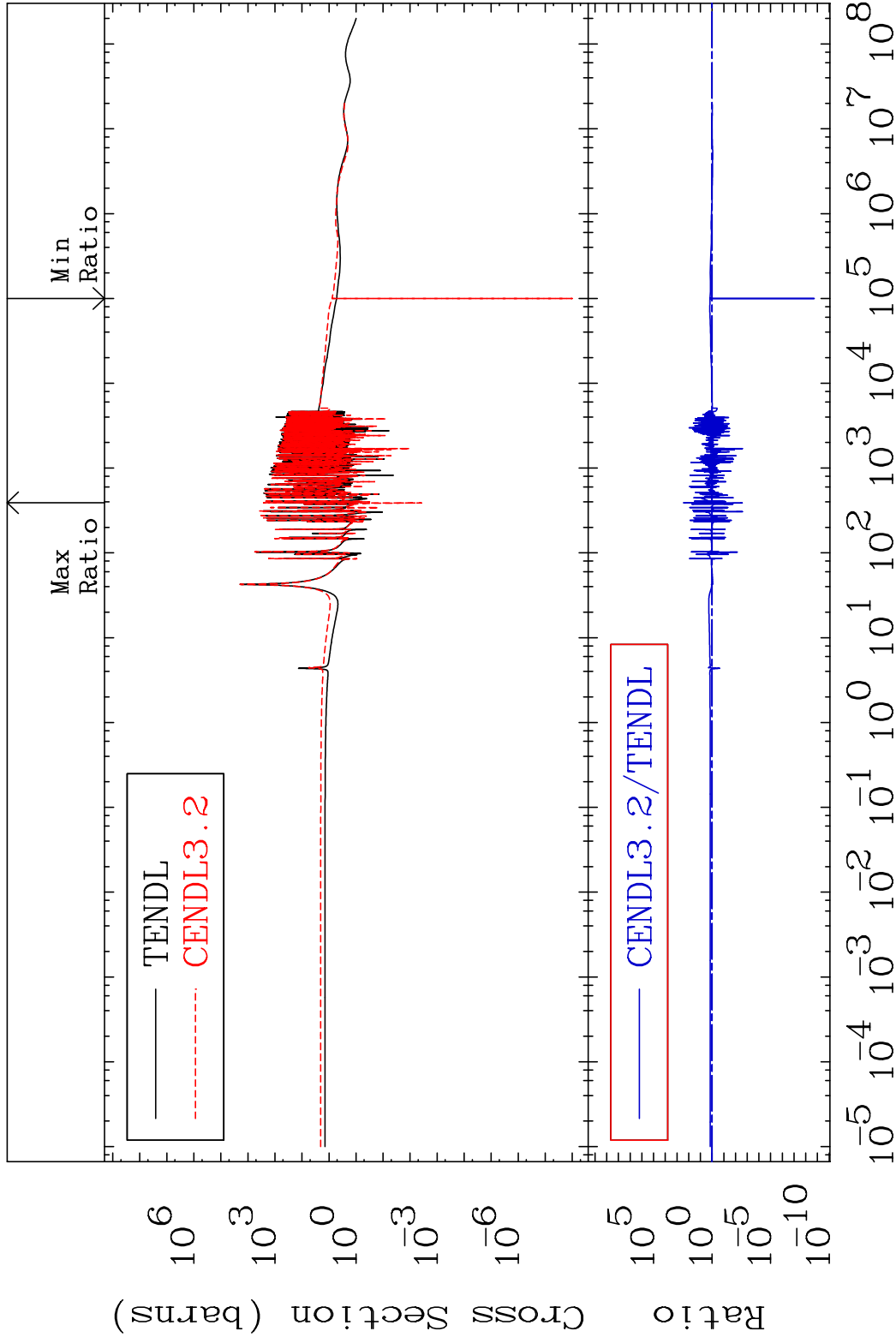
1 Incident Energy (eV) 60-Nd-145

MAT 6034

Elastic

60-Nd-145

Cross Section -100.0 To 9999. %

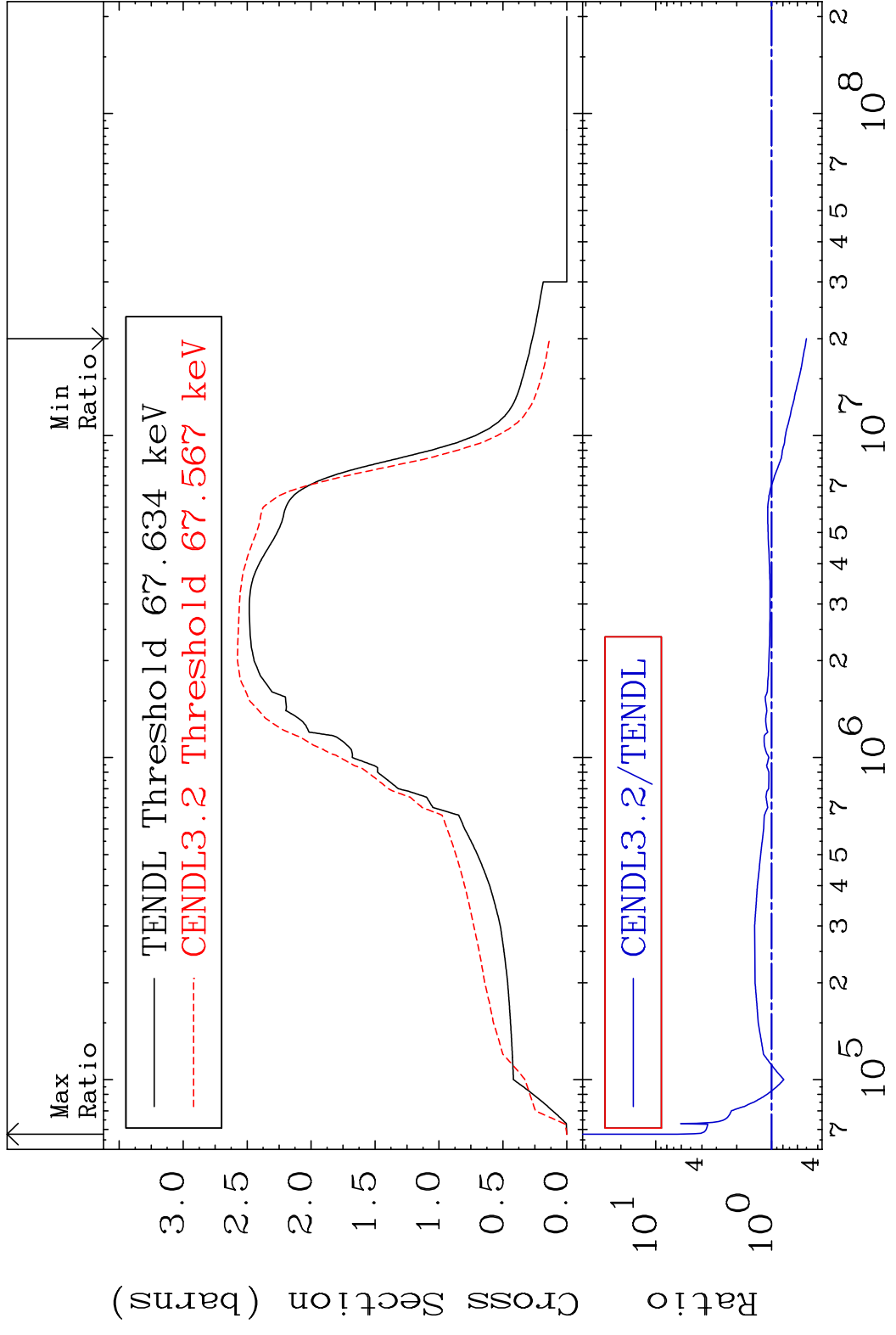


2

Incident Energy (eV)

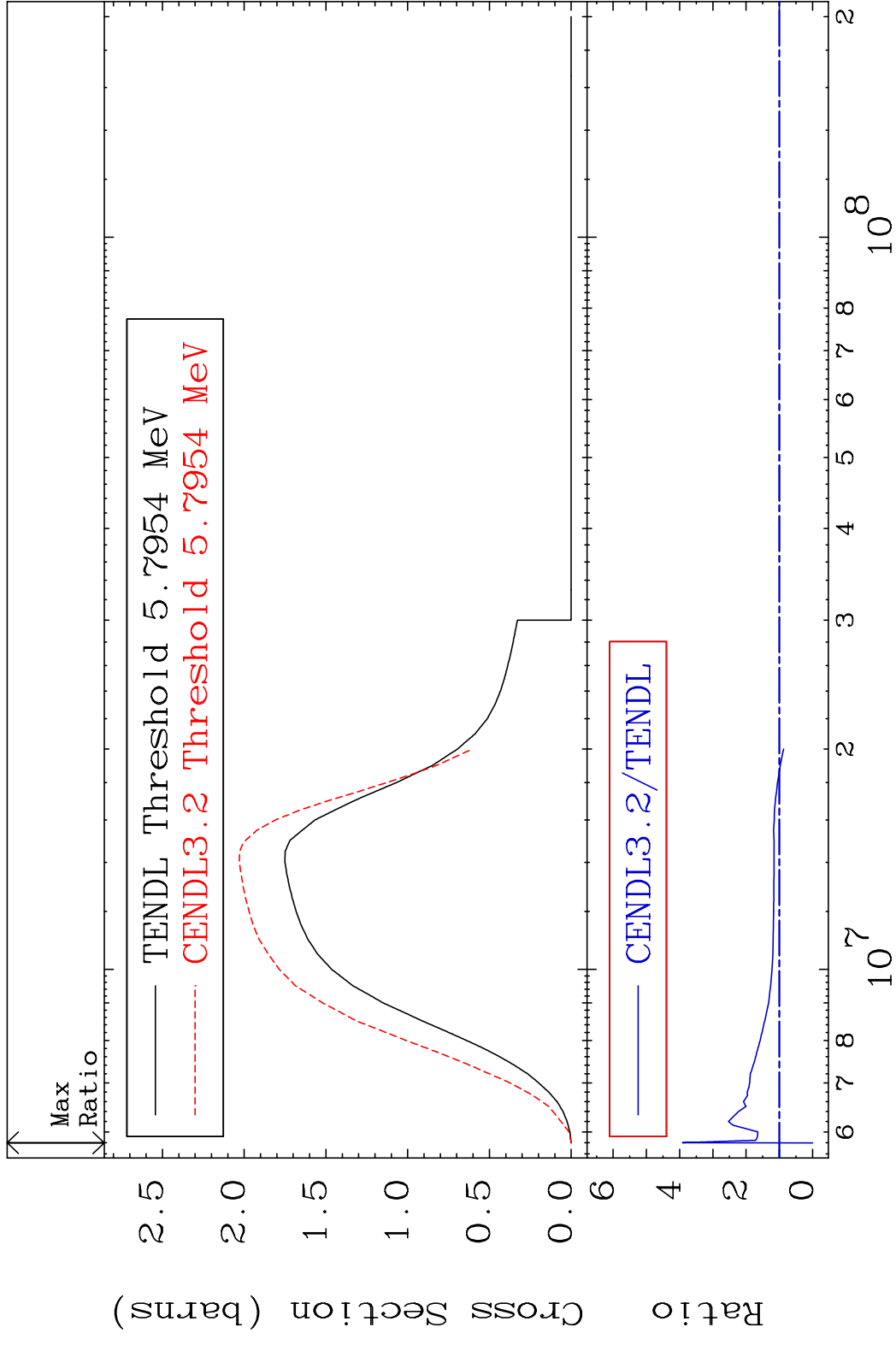
60-Nd-145

MAT 6034 Inelastic 60-Nd-145
 Cross Section -49.93 To 552.2 %



3 Incident Energy (eV) 60-Nd-145

MAT 6034 (n,2n) 60-Nd-145
 Cross Section -100.0 To 291.8 %



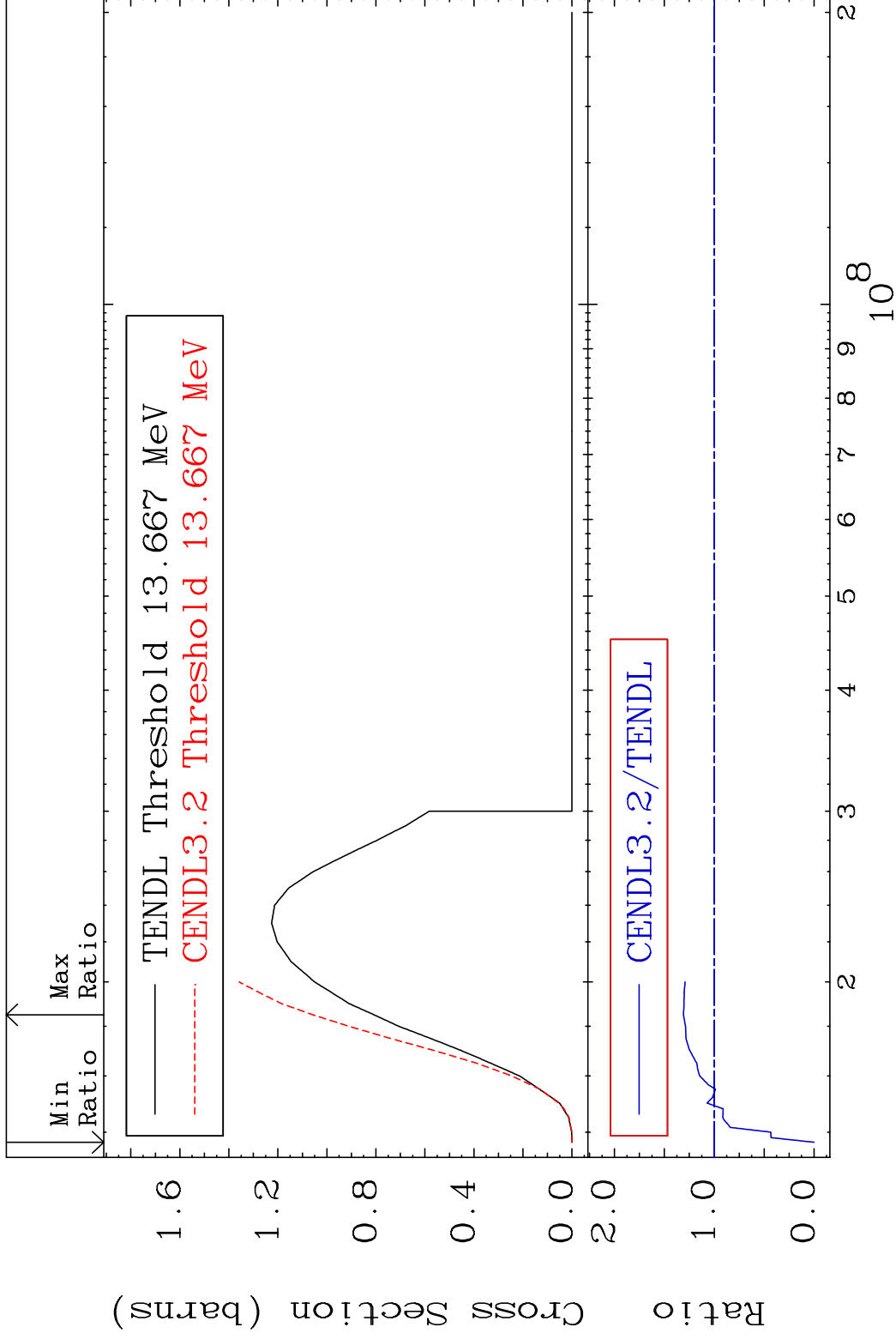
4 Incident Energy (eV) 60-Nd-145

MAT 6034

(n,3n)

60-Nd-145

Cross Section -100.0 To 30.87 %

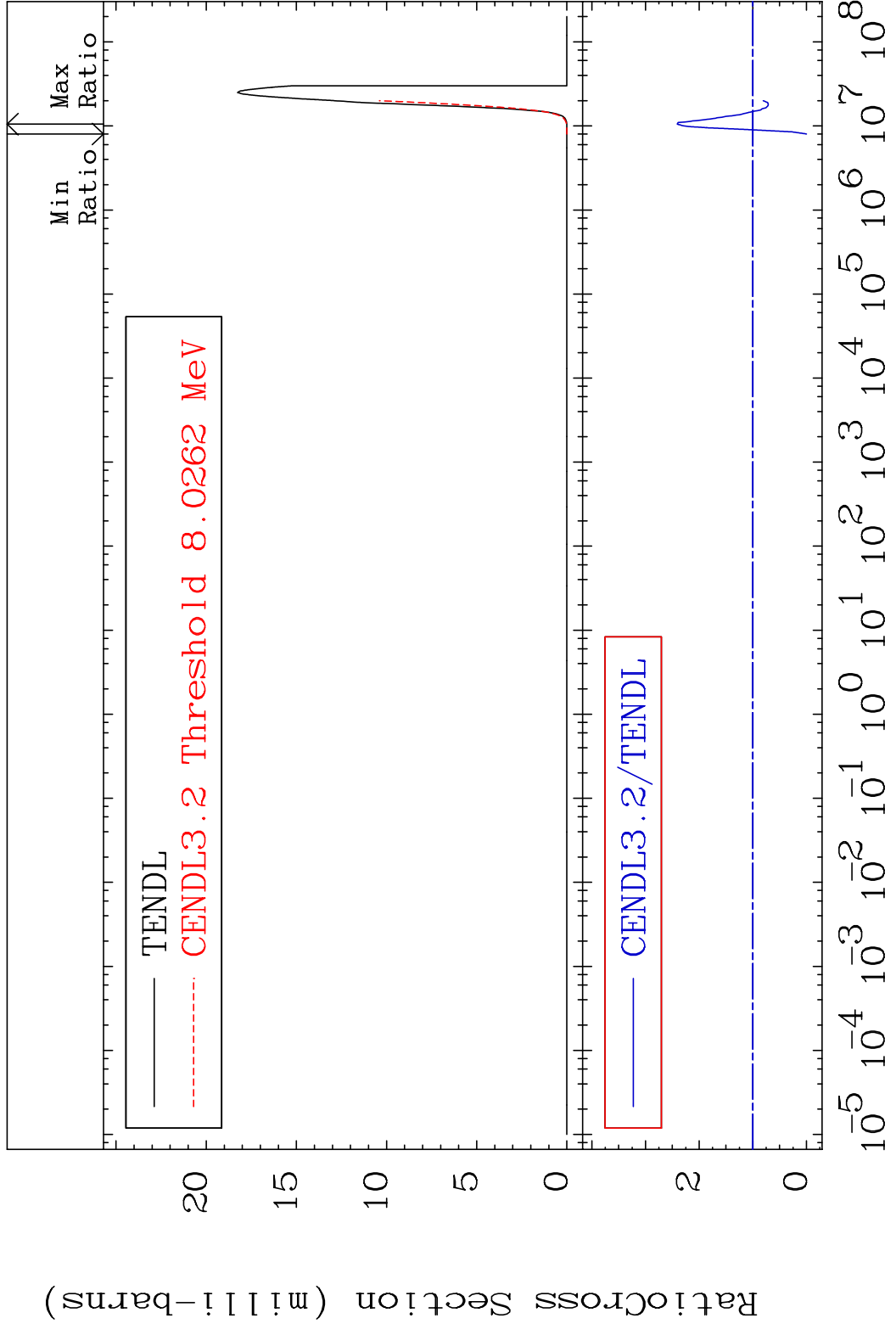


5

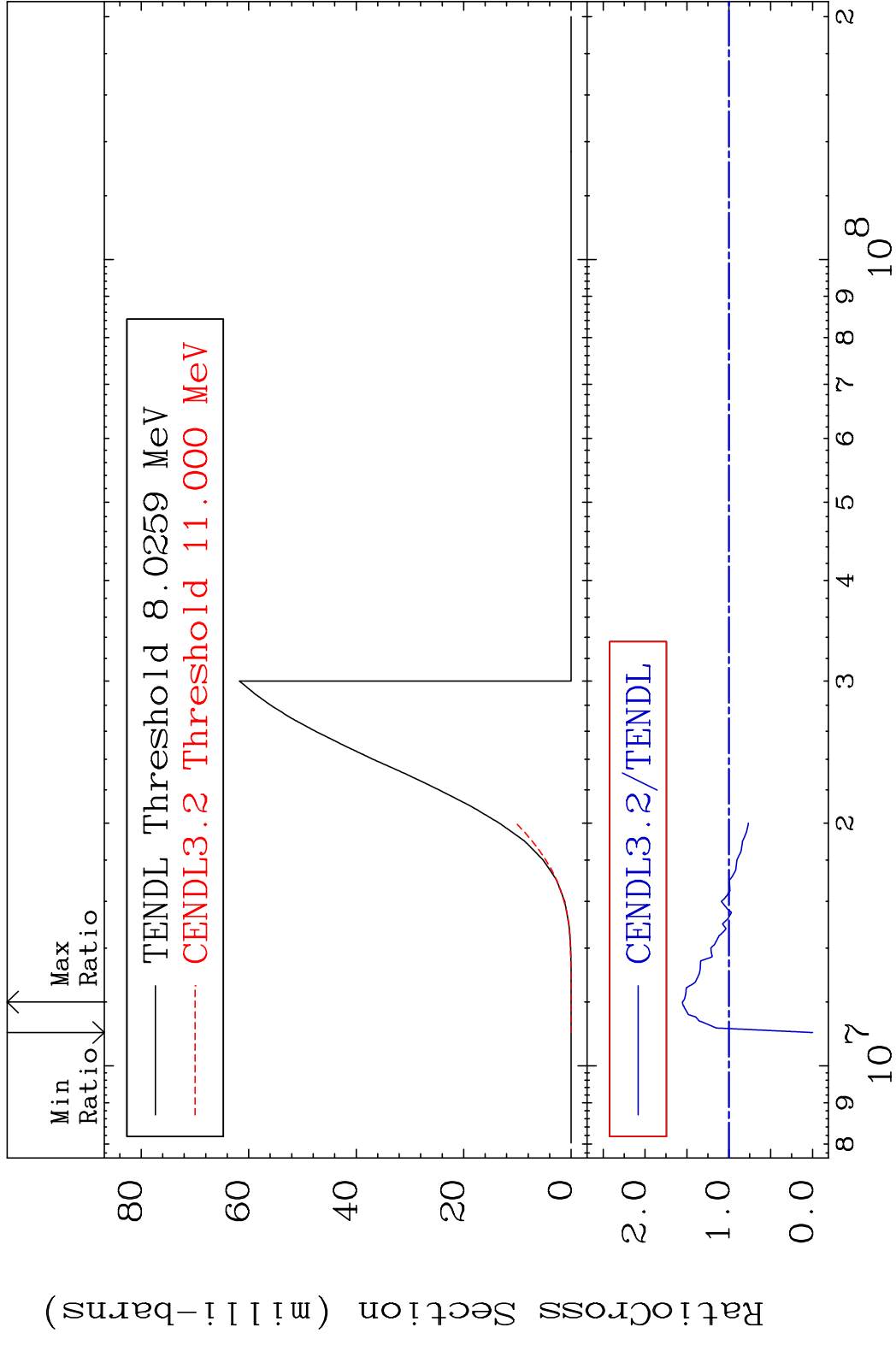
Incident Energy (eV)

60-Nd-145

MAT 6034 $(n, n') \alpha$ 60-Nd-145
 Cross Section -100.0 To 140.9 %

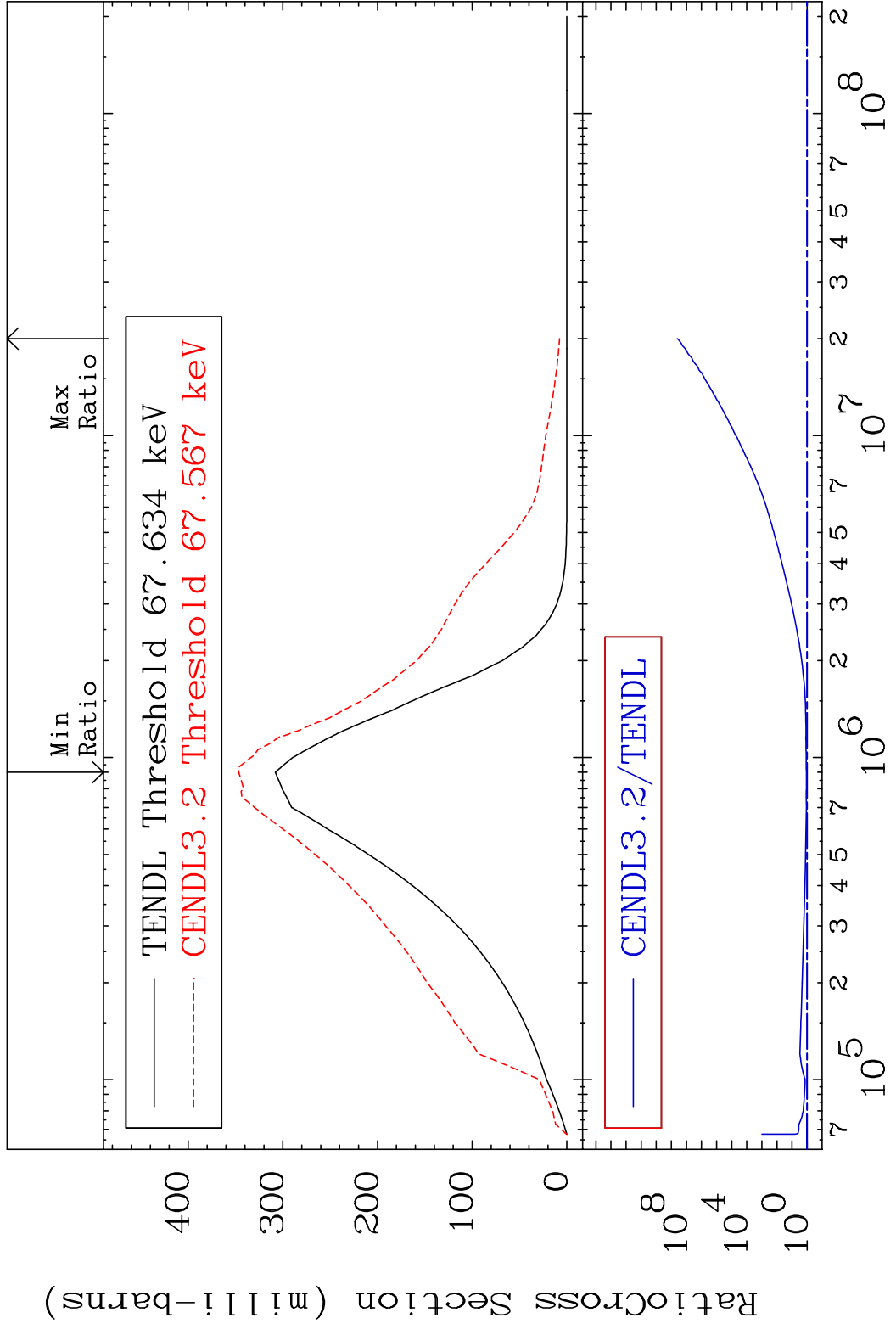


MAT 6034 (n, n') p 60-Nd-145
 Cross Section -100.0 To 55.48 %



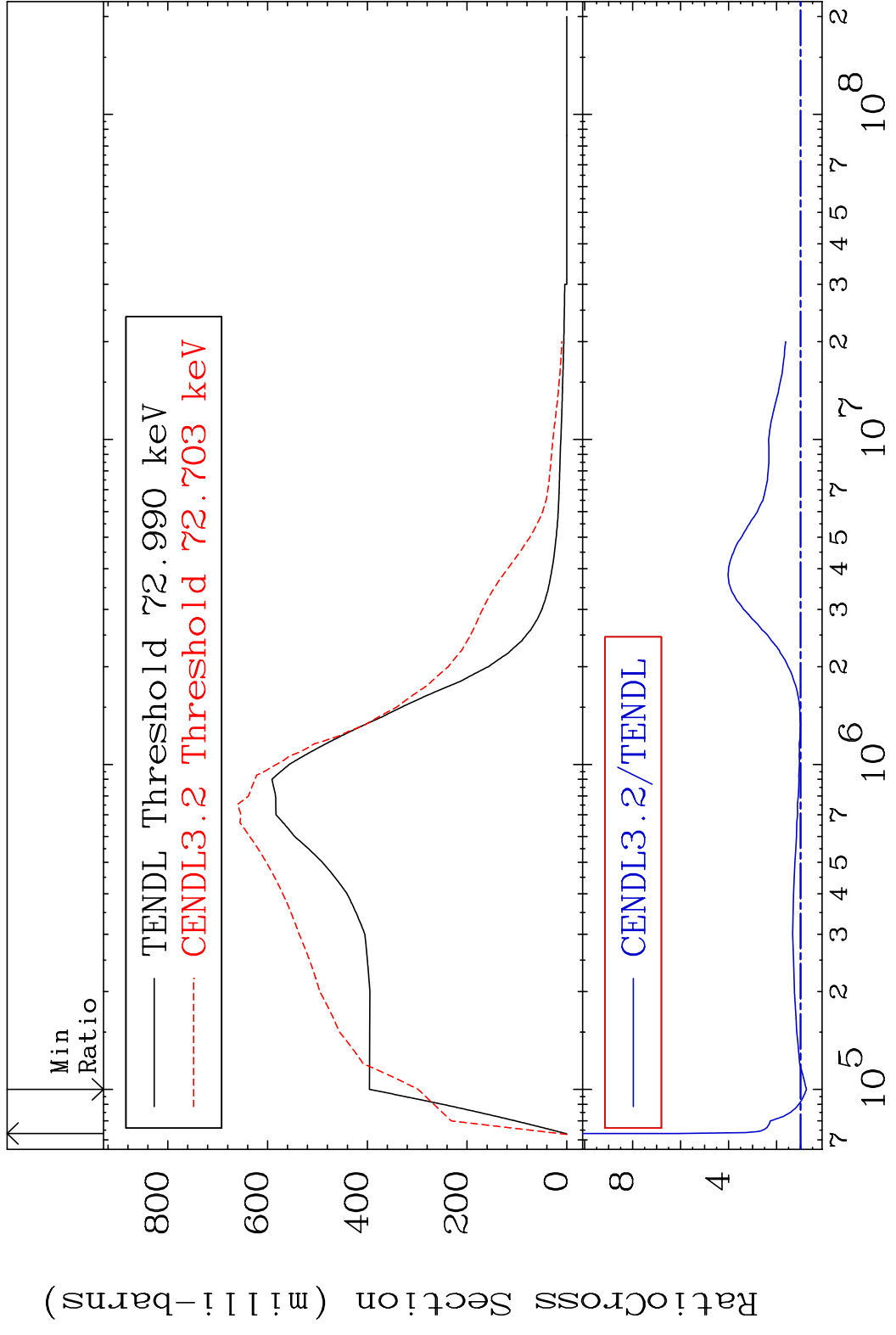
7 8 9 10 10⁷ 10⁸ 2 60-Nd-145

MAT 6034 MT= 51 (n, n') Level 60-Nd-145
 Cross Section 12.50 To 9999. %



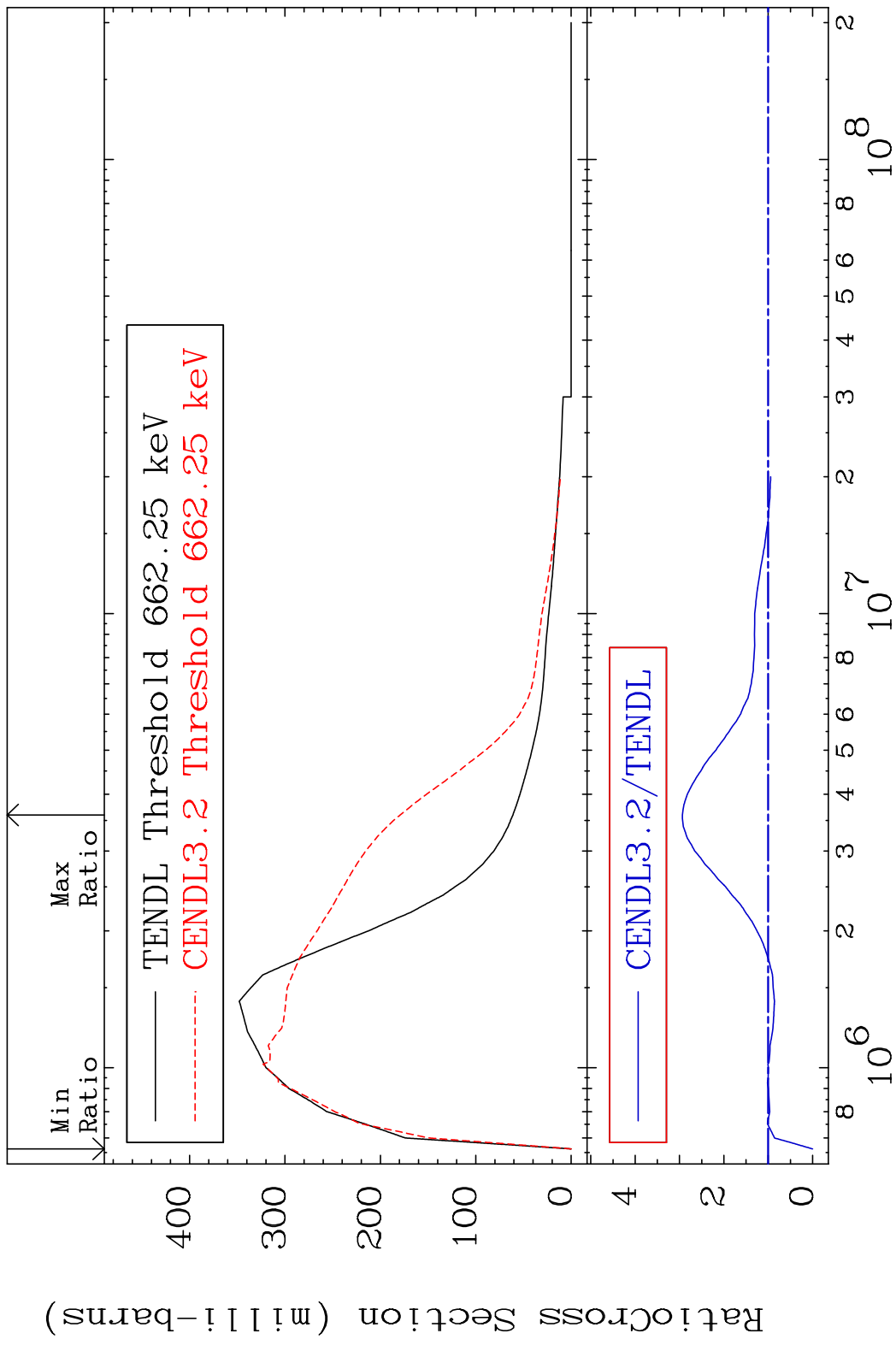
8 8 Incident Energy (eV) 60-Nd-145

MAT 6034 MT= 52 (n, n') Level 60-Nd-145
 Cross Section -24.72 To 513.9 %



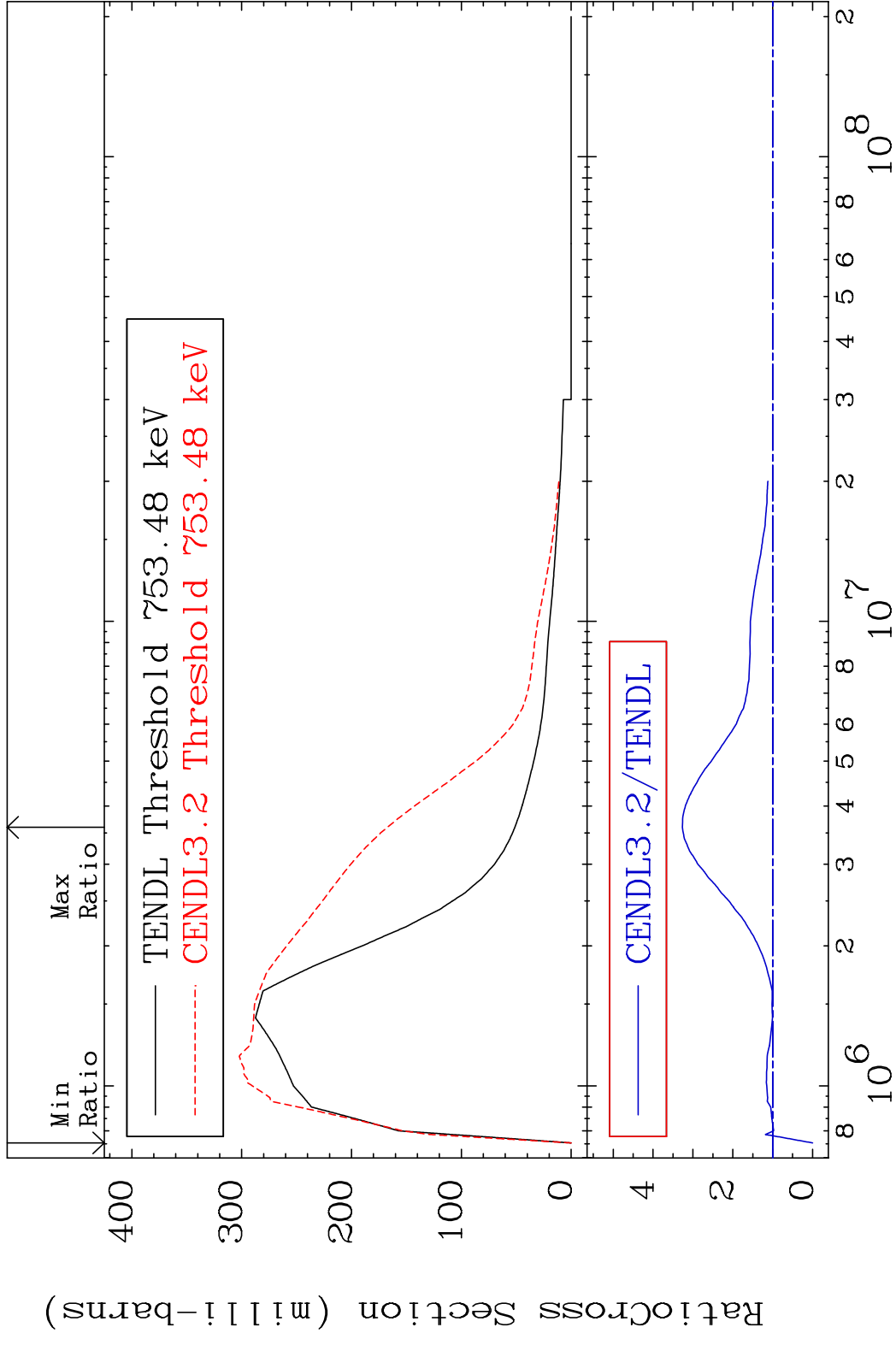
9 2 3 4 5 7 2 3 4 5 7 8 2 60-Nd-145

MAT 6034 MT= 53 (n, n') Level 60-Nd-145
 Cross Section -100.0 To 193.6 %

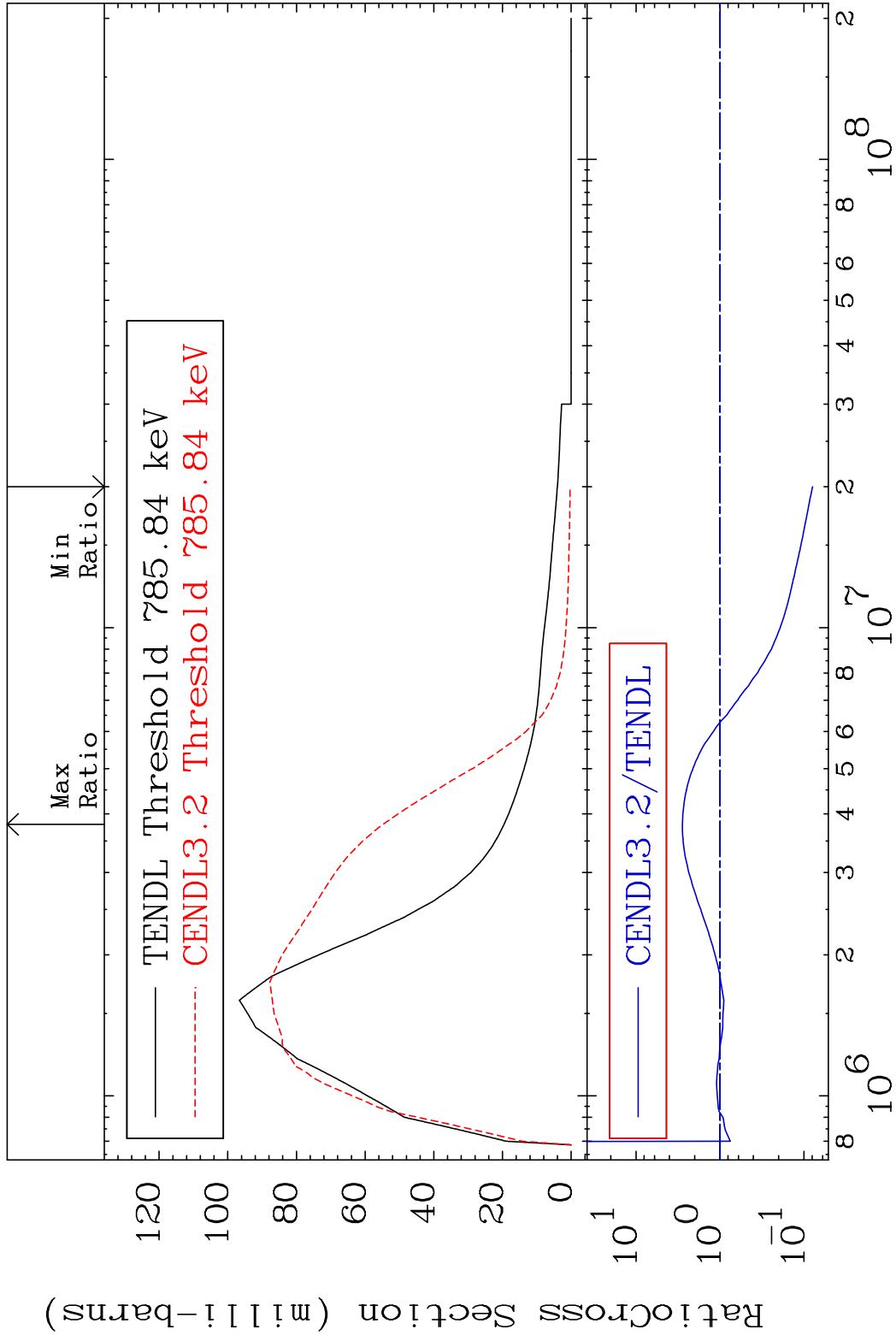


10 2 8 10⁶ 10⁷ 10⁸

MAT 6034 MT= 54 (n, n') Level 60-Nd-145
 Cross Section -100.0 To 226.6 %

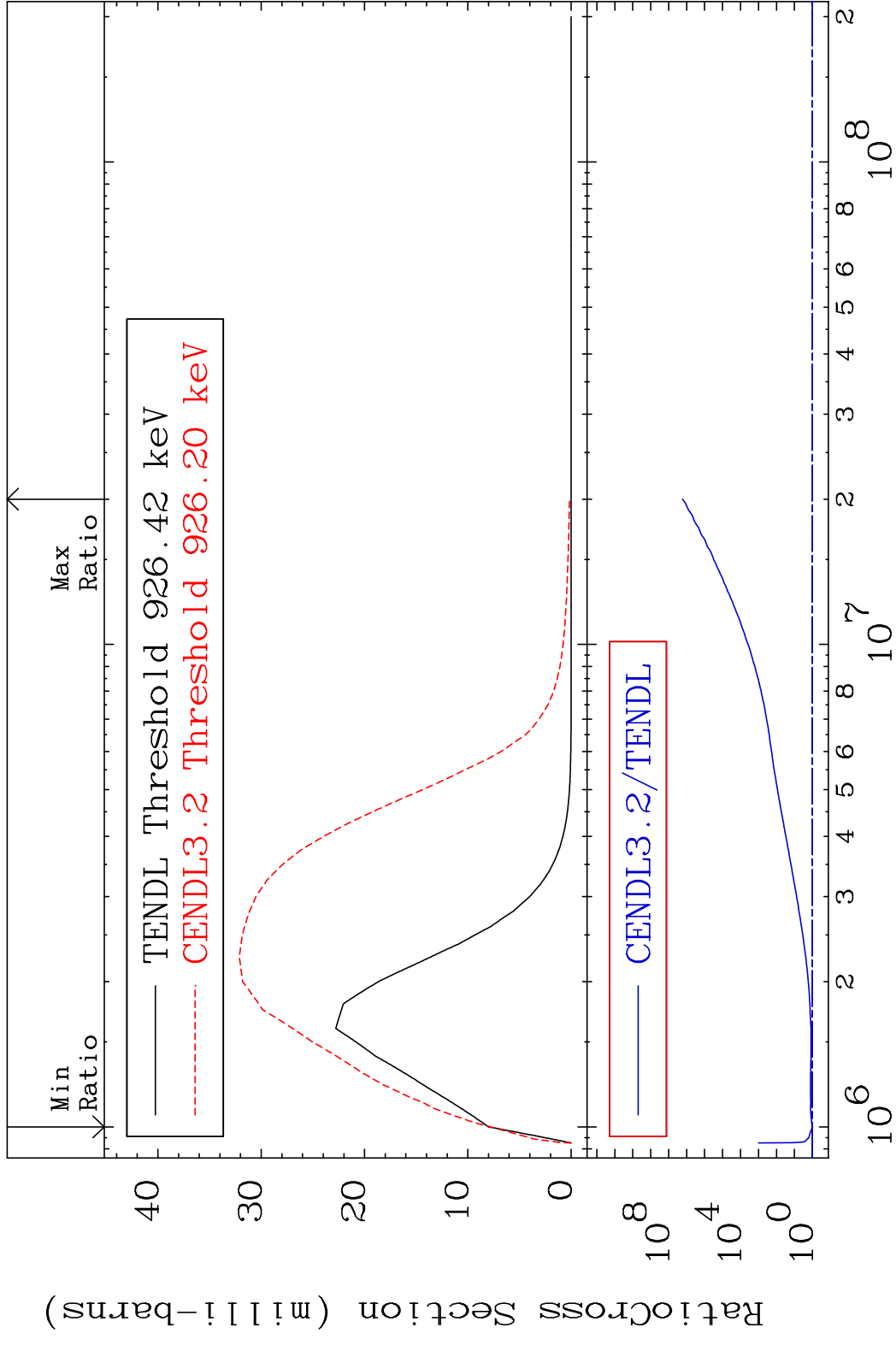


MAT 6034 MT= 55 (n, n') Level 60-Nd-145
 Cross Section -92.11 To 180.6 %



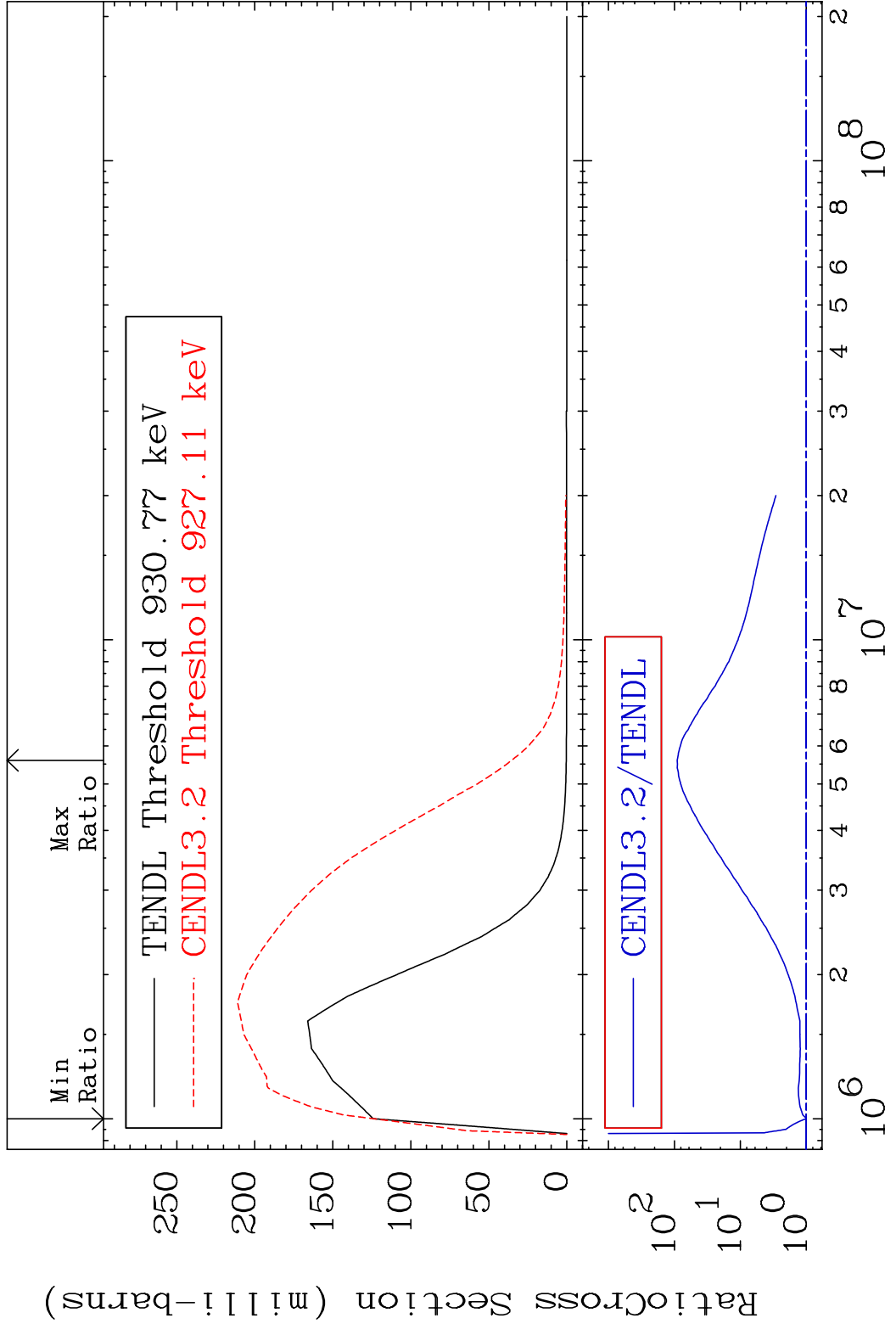
12 60-Nd-145

MAT 6034 MT= 56 (n, n') Level 60-Nd-145
 Cross Section -2.128 To 9999. %



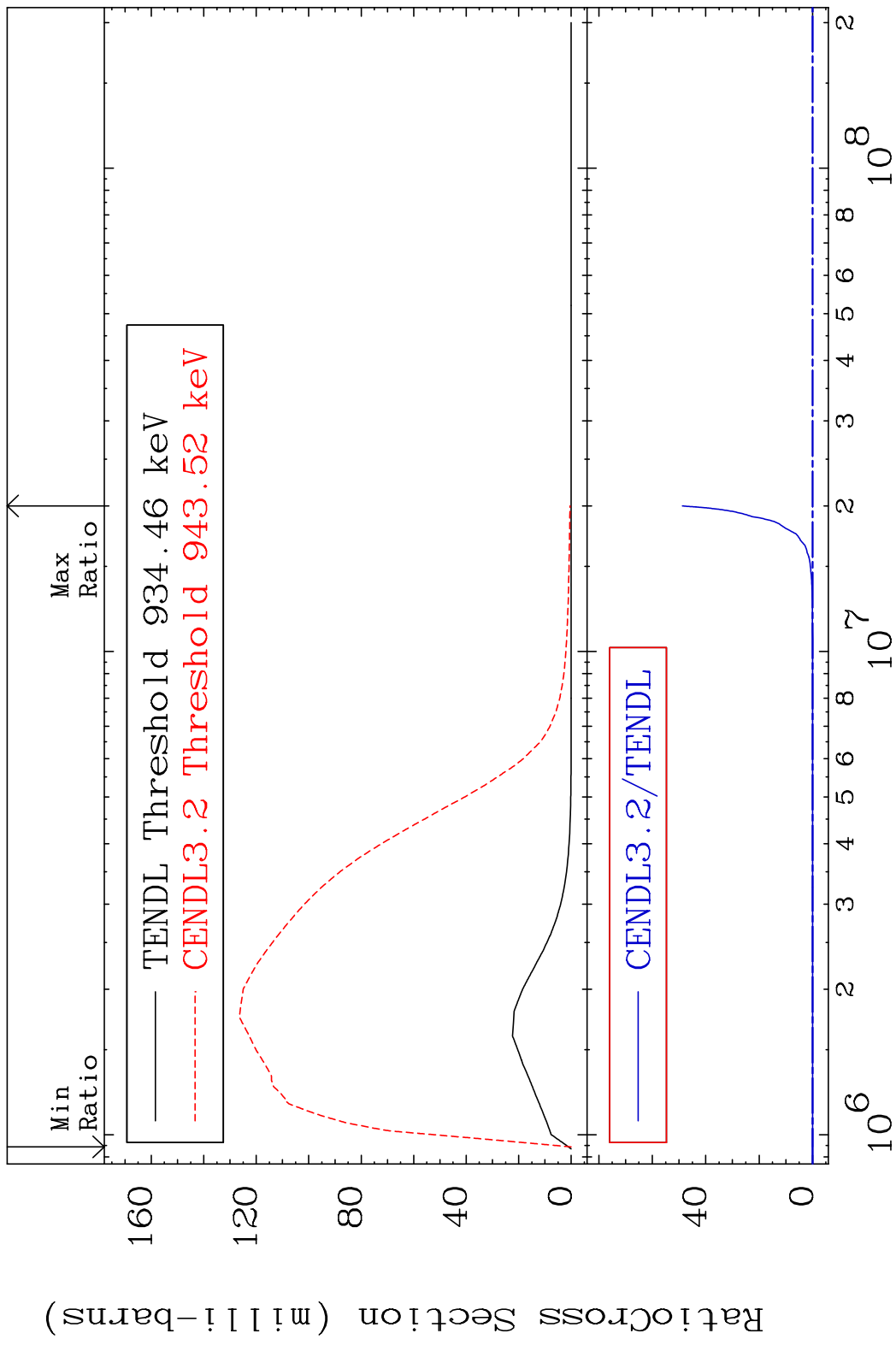
13 Incident Energy (eV) 60-Nd-145

MAT 6034 MT= 57 (n,n') Level 60-Nd-145
 Cross Section -0.275 To 8984. %

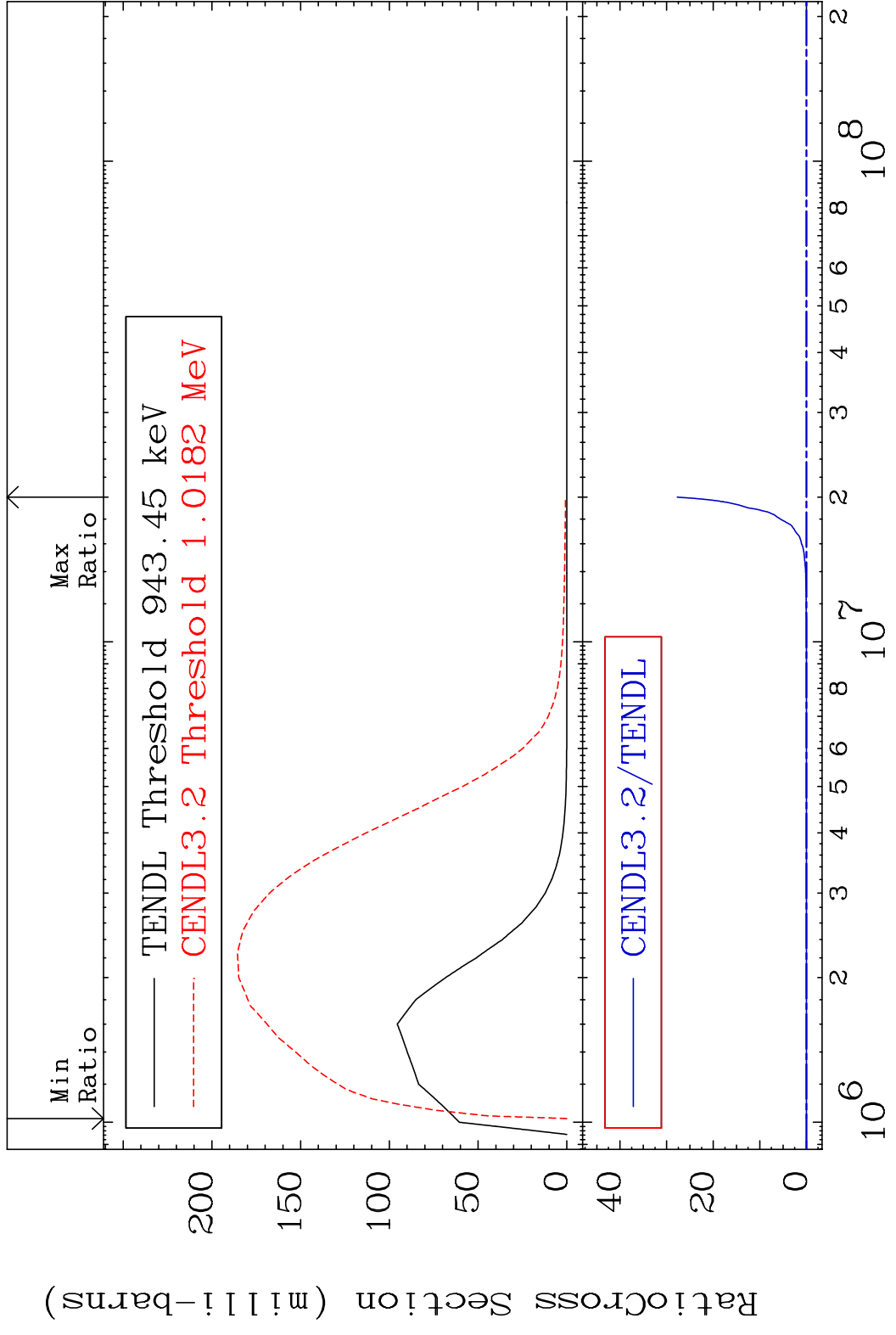


14 Incident Energy (eV) 60-Nd-145

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

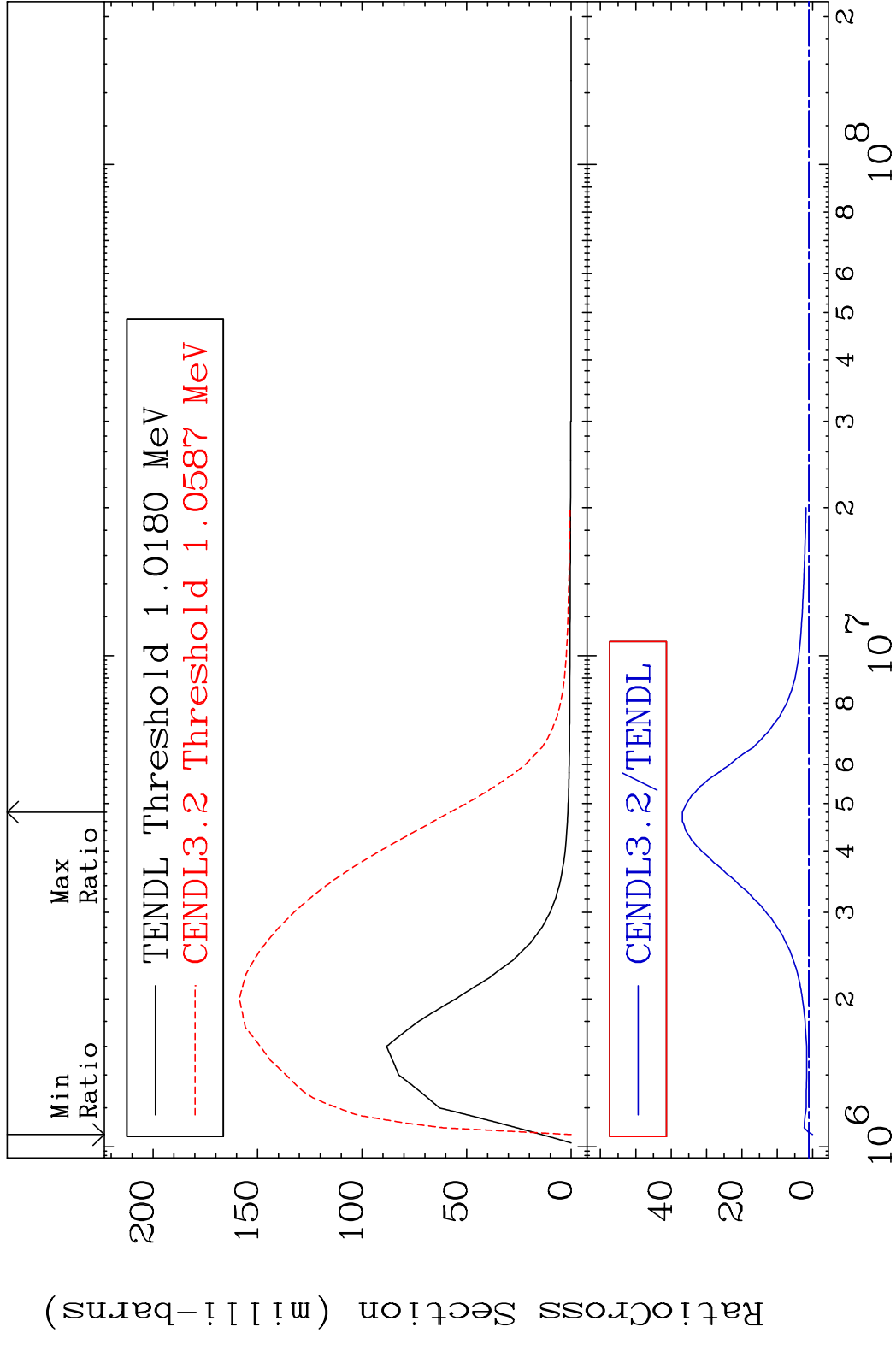


MAT 6034 MT= 59 (n, n') Level 60-Nd-145
 Cross Section -100.0 To 9999. %



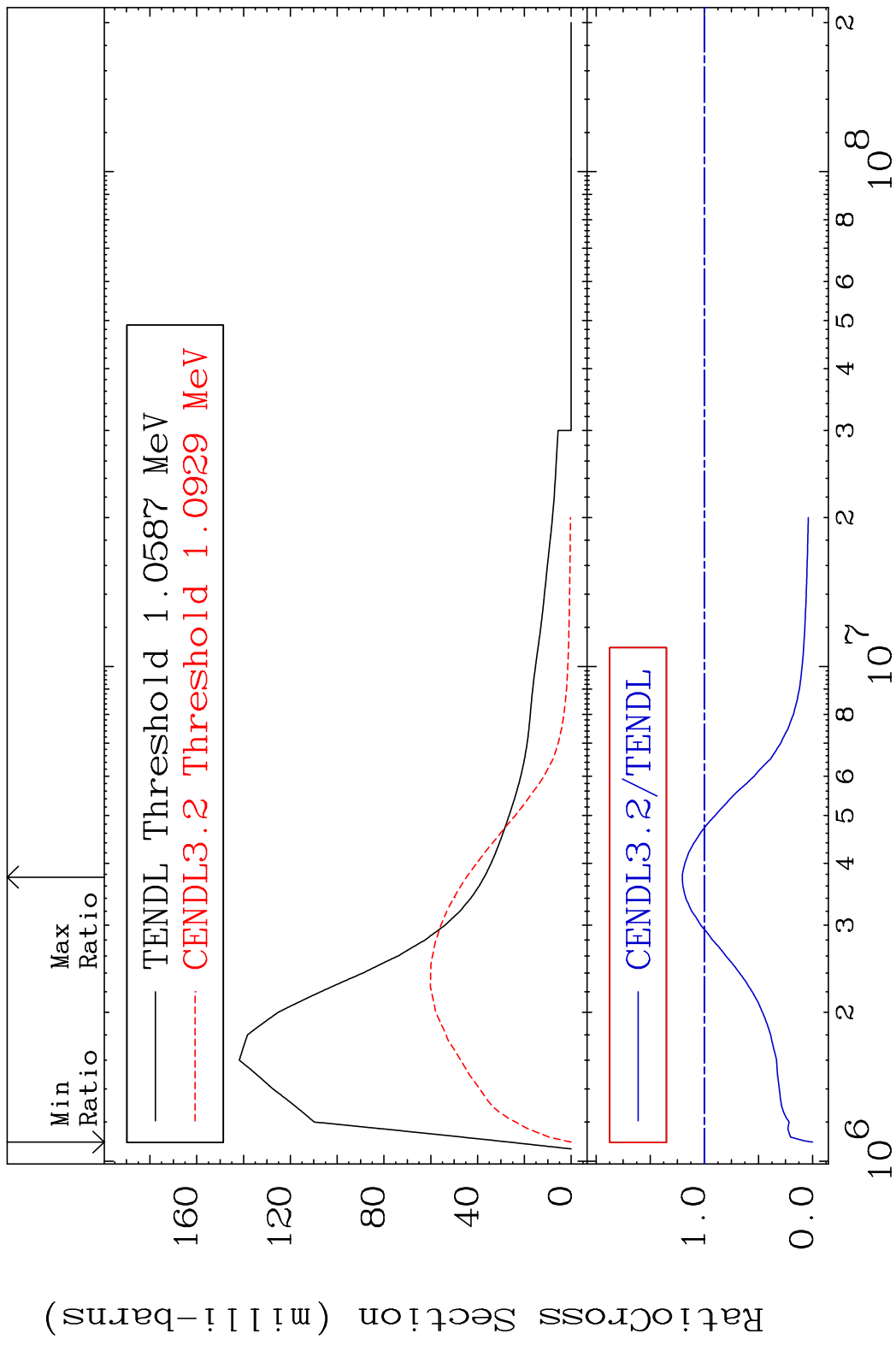
16 Incident Energy (eV) 60-Nd-145

MAT 6034 MT= 60 (n, n') Level 60-Nd-145
 Cross Section -100.0 To 3582. %



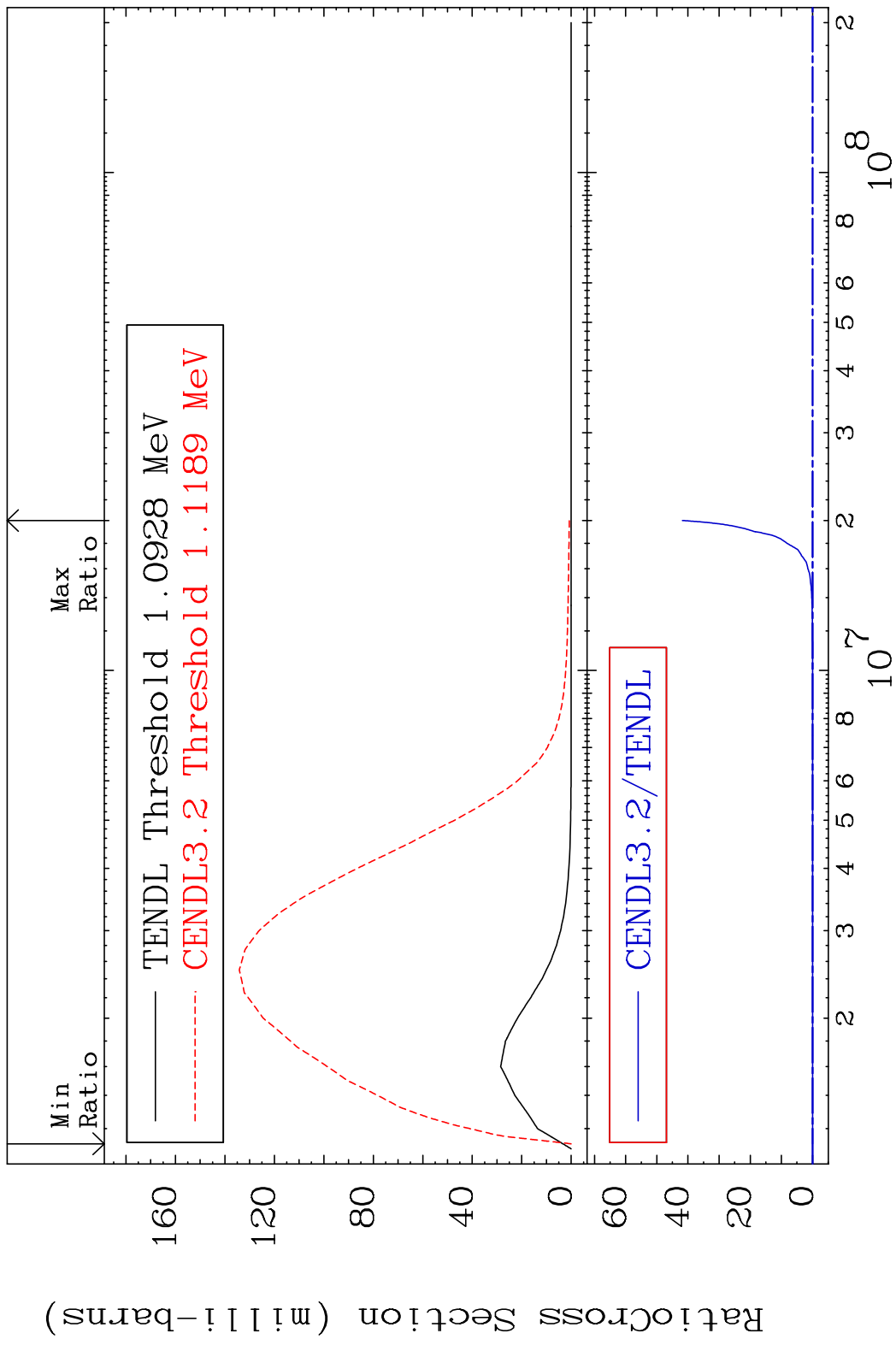
17 Incident Energy (eV) 60-Nd-145

MAT 6034 MT= 61 (n,n') Level 60-Nd-145
 Cross Section -100.0 To 20.33 %

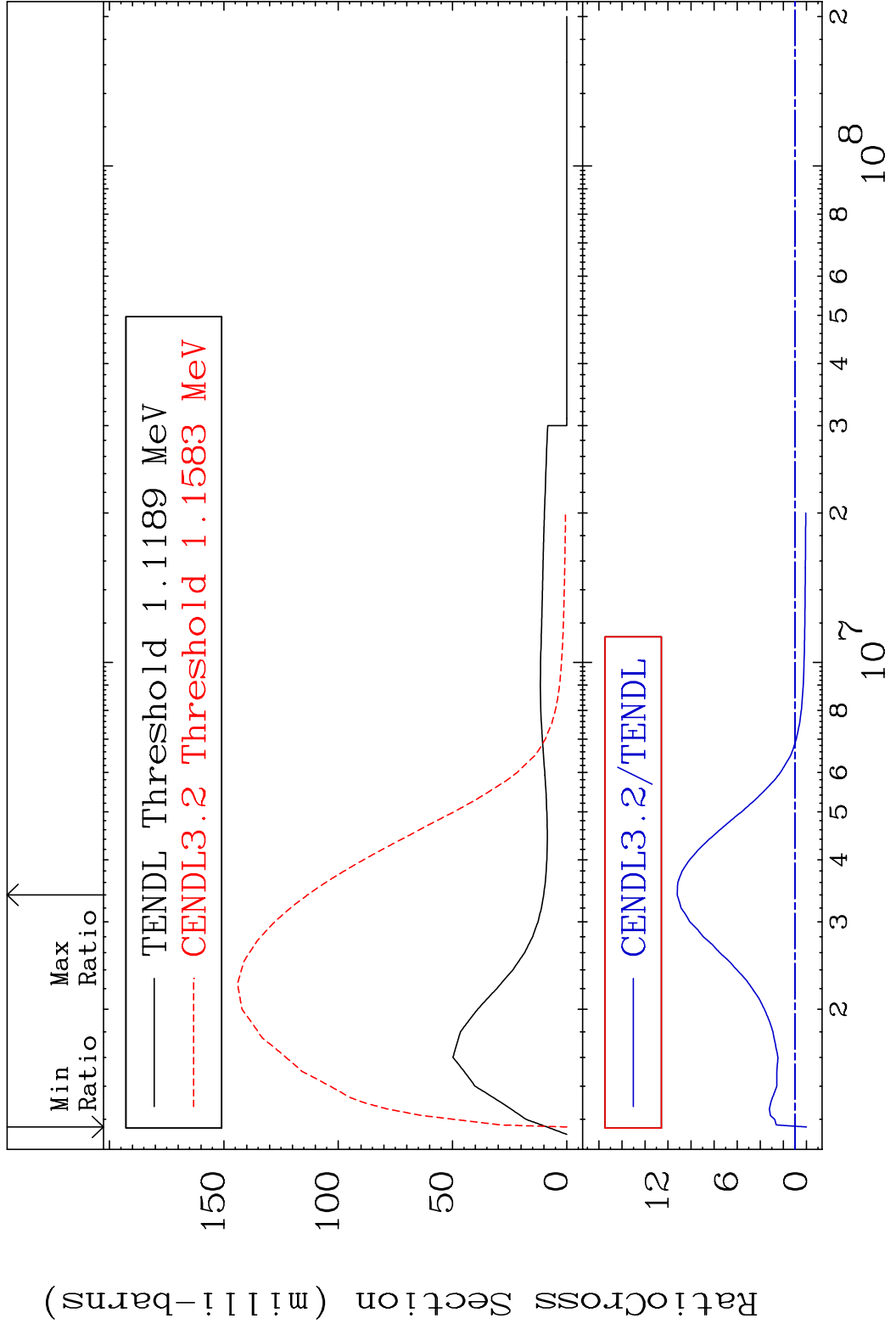


18 Incident Energy (eV) 60-Nd-145

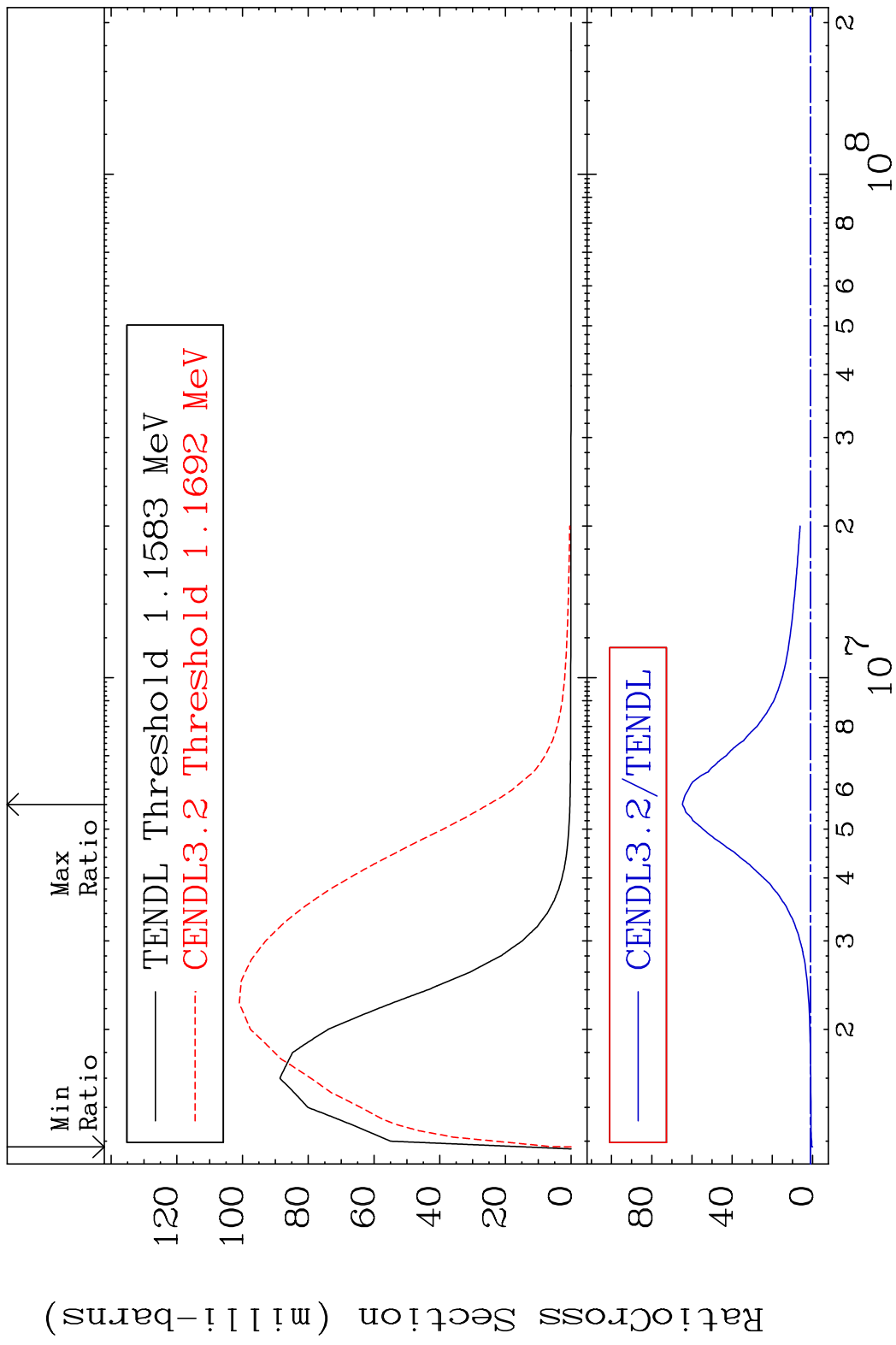
MAT 6034 MT= 62 (n, n') Level 60-Nd-145
 Cross Section -100.0 To 9999. %



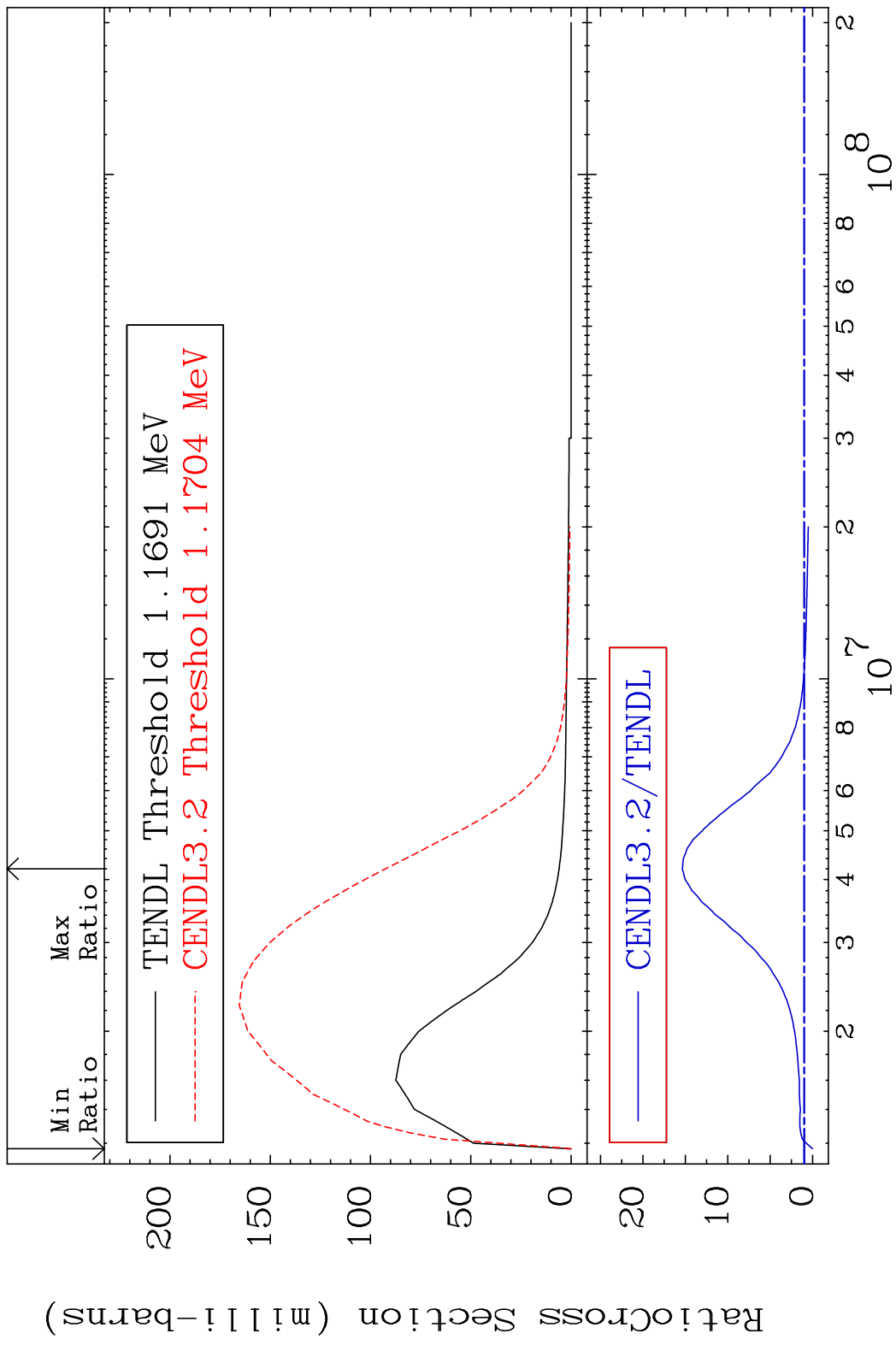
MAT 6034 MT= 63 (n, n') Level 60-Nd-145
 Cross Section -100.0 To 1021. %



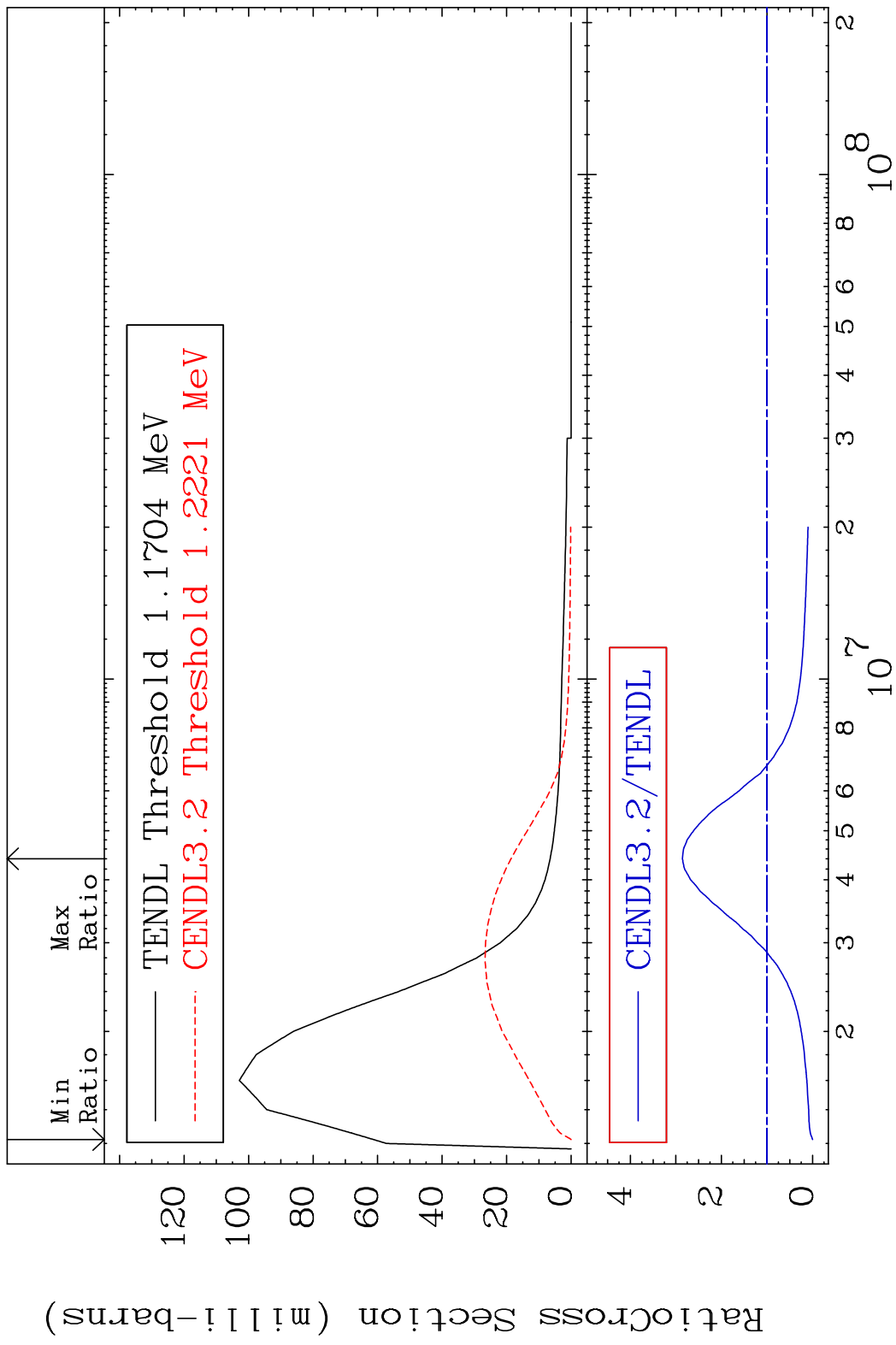
MAT 6034 MT= 64 (n, n') Level 60-Nd-145
 Cross Section -100.0 To 6377. %



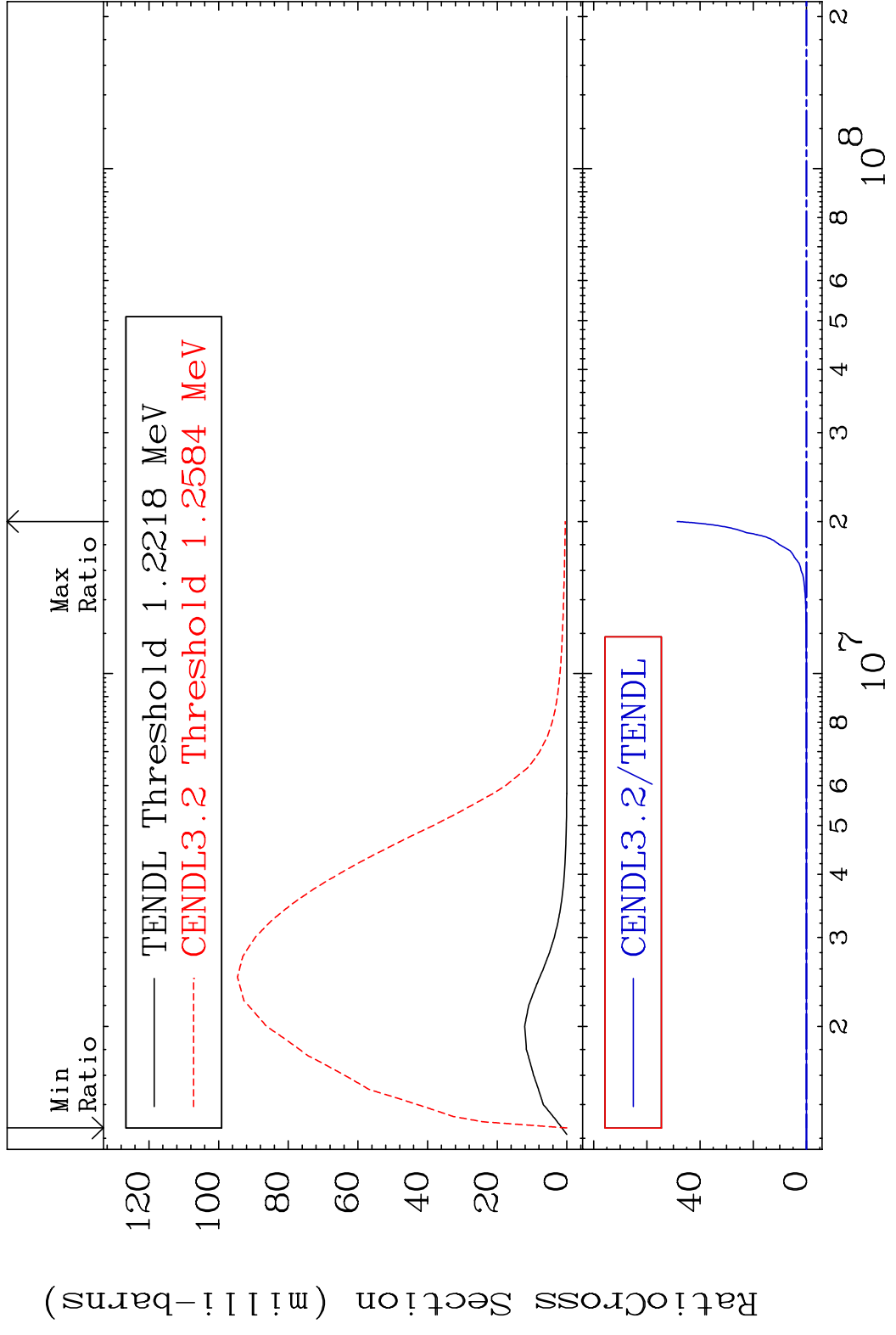
MAT 6034 MT= 65 (n, n') Level 60-Nd-145
 Cross Section -100.0 To 1435. %



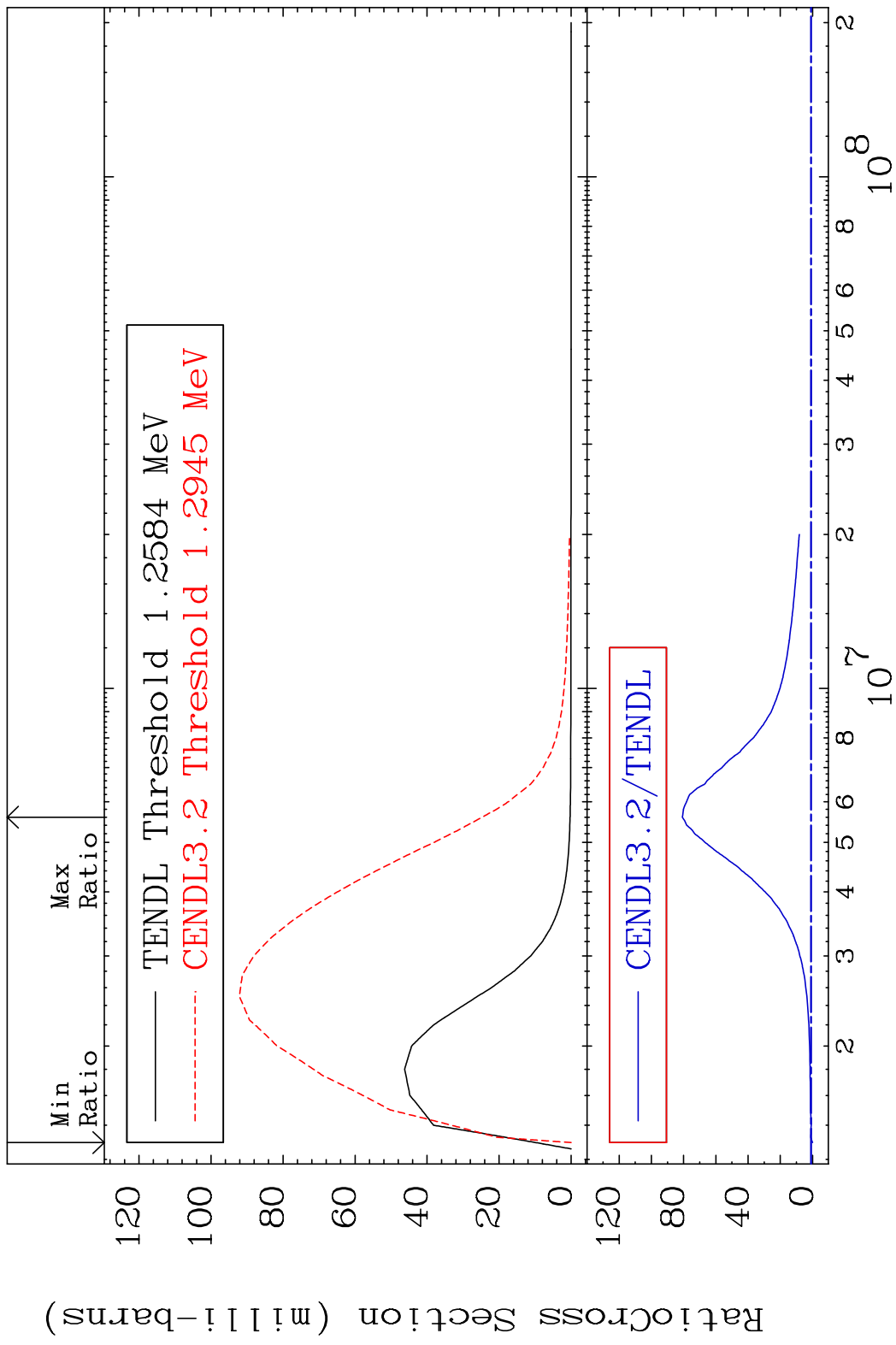
MAT 6034 MT= 66 (n, n') Level 60-Nd-145
 Cross Section -100.0 To 185.8 %



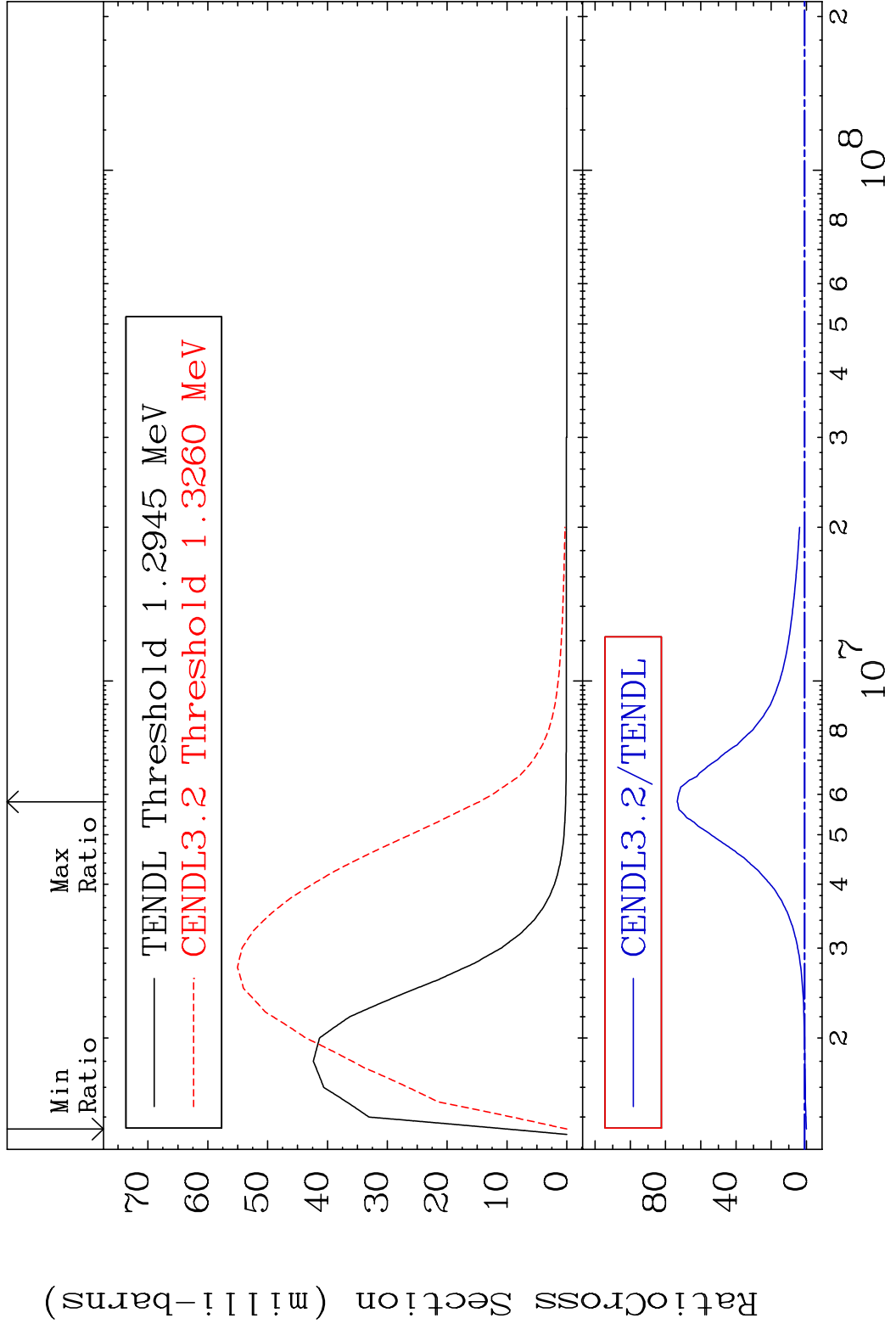
MAT 6034 MT= 67 (n, n') Level 60-Nd-145
 Cross Section -100.0 To 9999. %



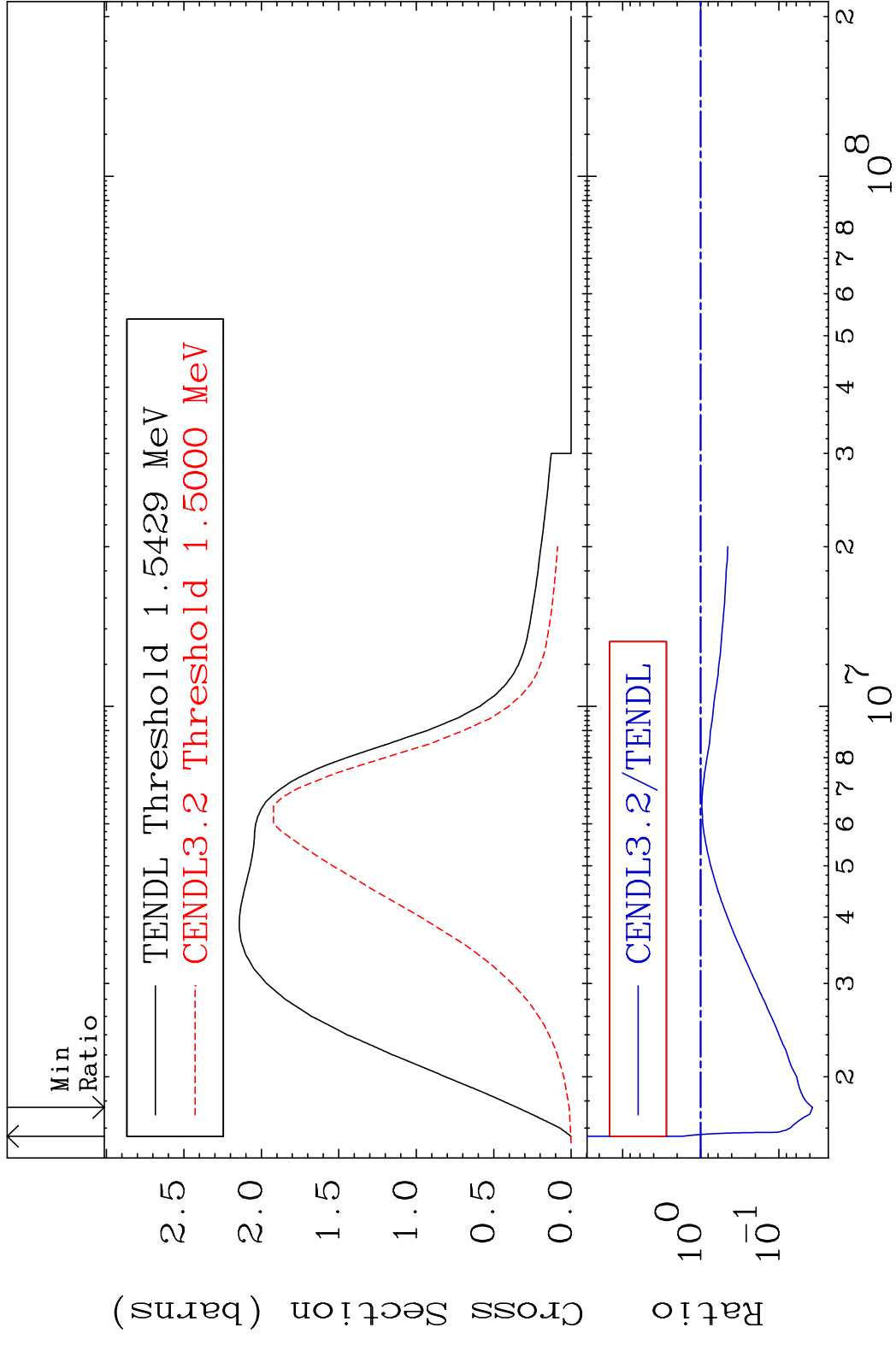
MAT 6034 MT= 68 (n, n') Level 60-Nd-145
 Cross Section -100.0 To 7979. %



MAT 6034 MT= 69 (n, n') Level 60-Nd-145
 Cross Section -100.0 To 7238. %



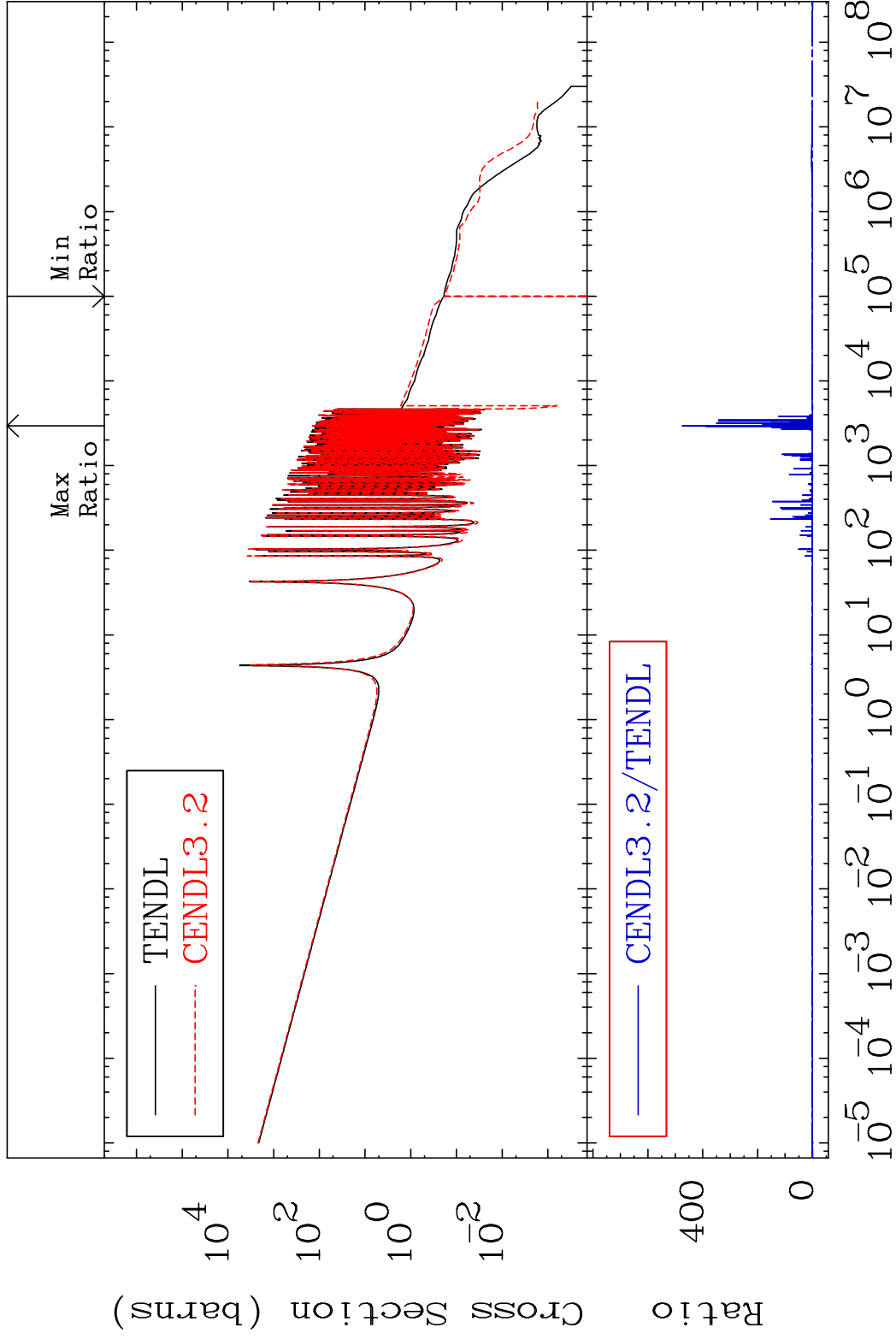
MAT 6034 (n,n') Continuum 60-Nd-145
 Cross Section -96.31 To 71.68 %



MAT 6034

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

60-Nd-145

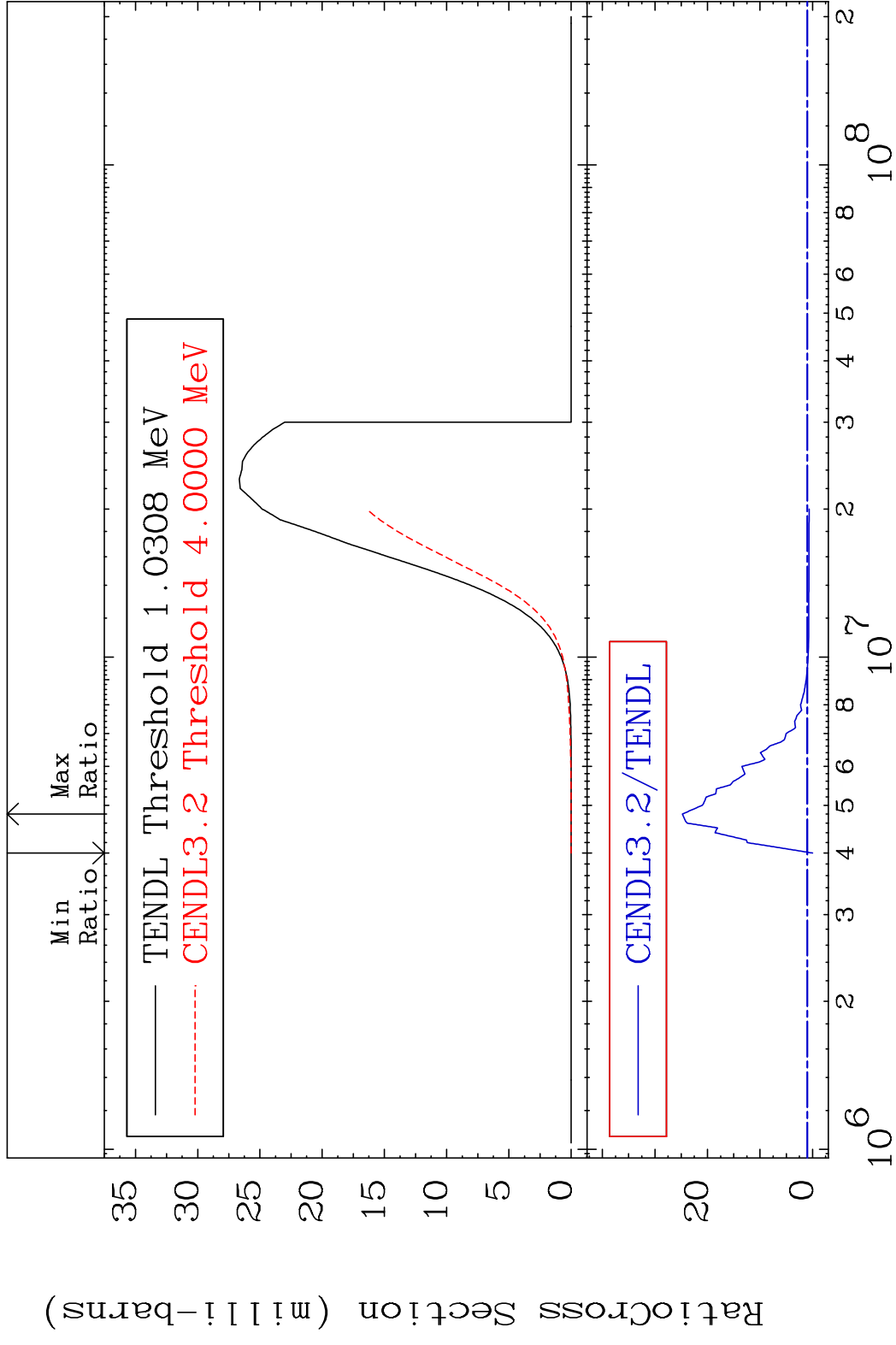


28

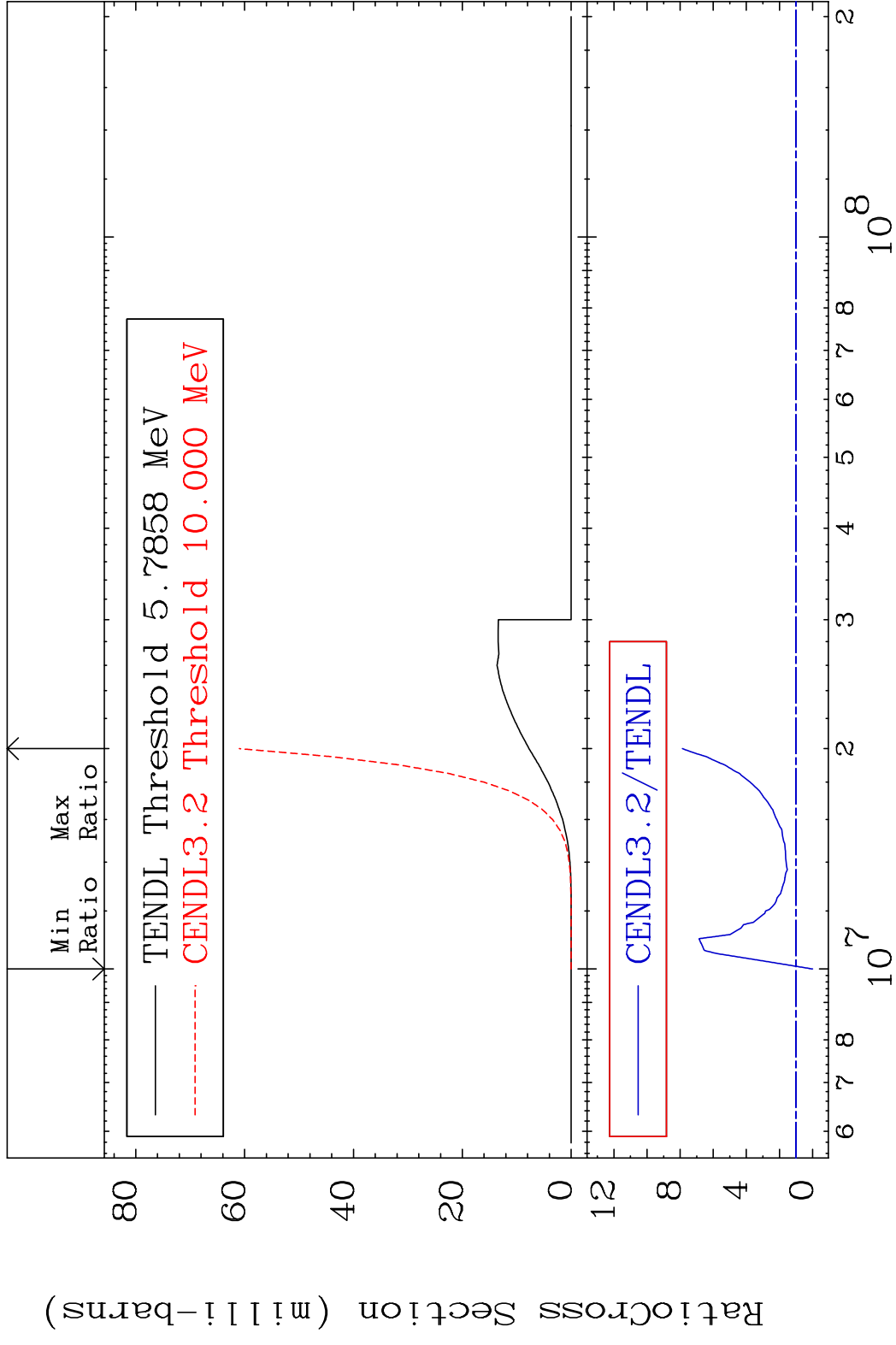
Incident Energy (eV)

60-Nd-145

MAT 6034 (n,p) 60-Nd-145
 Cross Section -100.0 To 2378. %

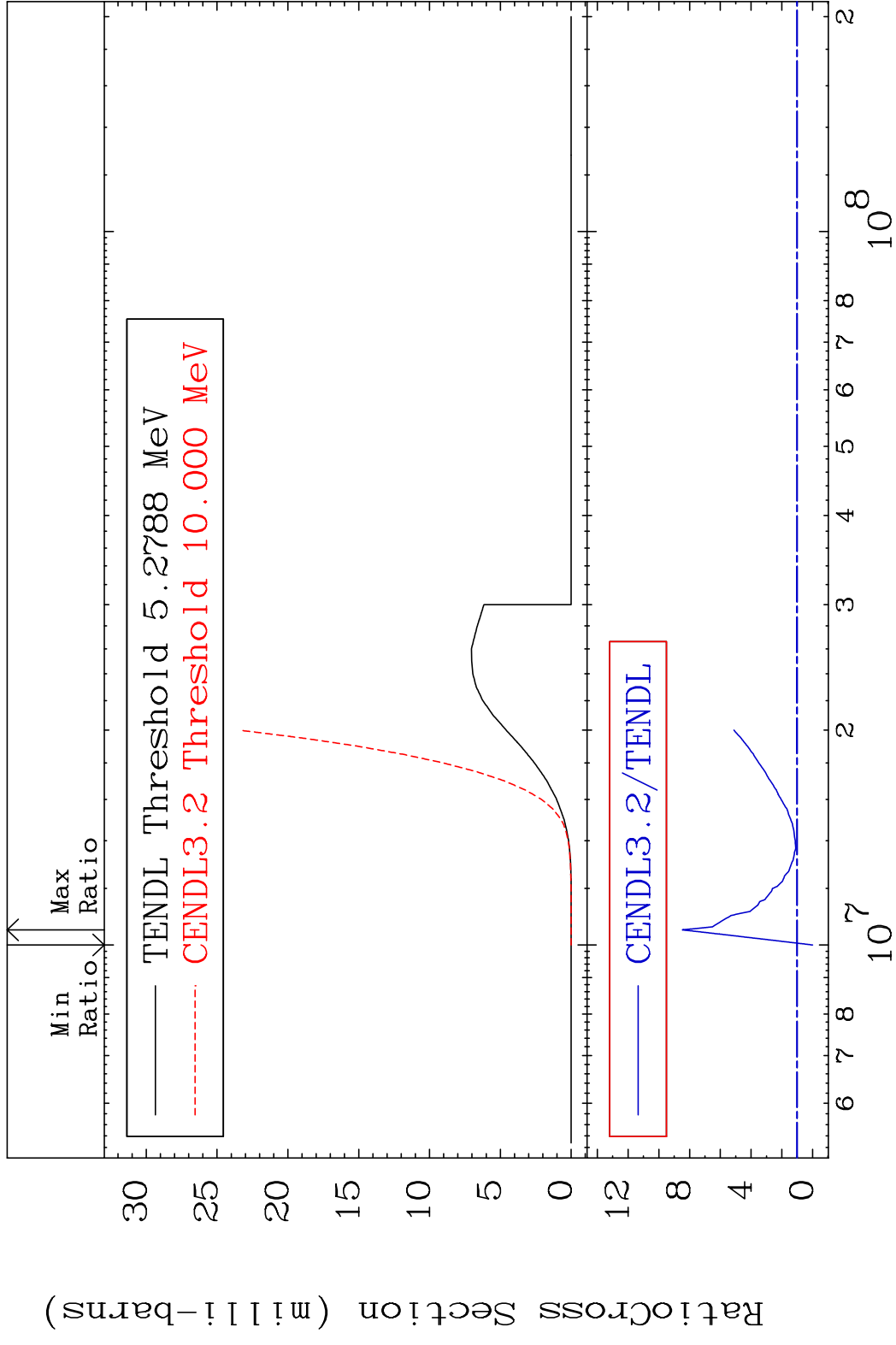


MAT 6034 (n,d) 60-Nd-145
 Cross Section -100.0 To 686.6 %



30 60-Nd-145

MAT 6034 (n, t) 60-Nd-145
 Cross Section -100.0 To 747.0 %

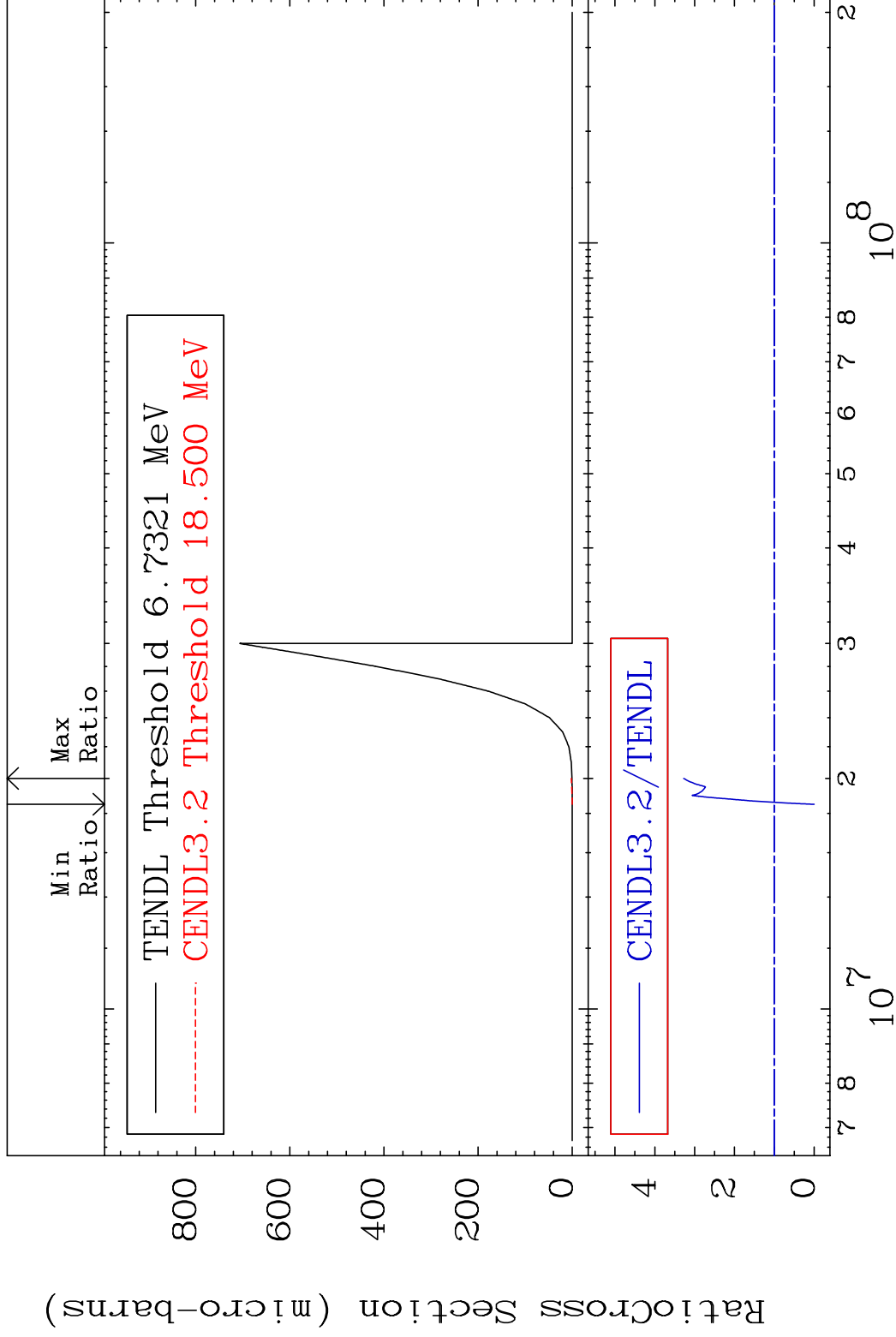


MAT 6034

(n, He-3)

60-Nd-145

Cross Section -100.0 To 227.5 %



32

Incident Energy (eV)

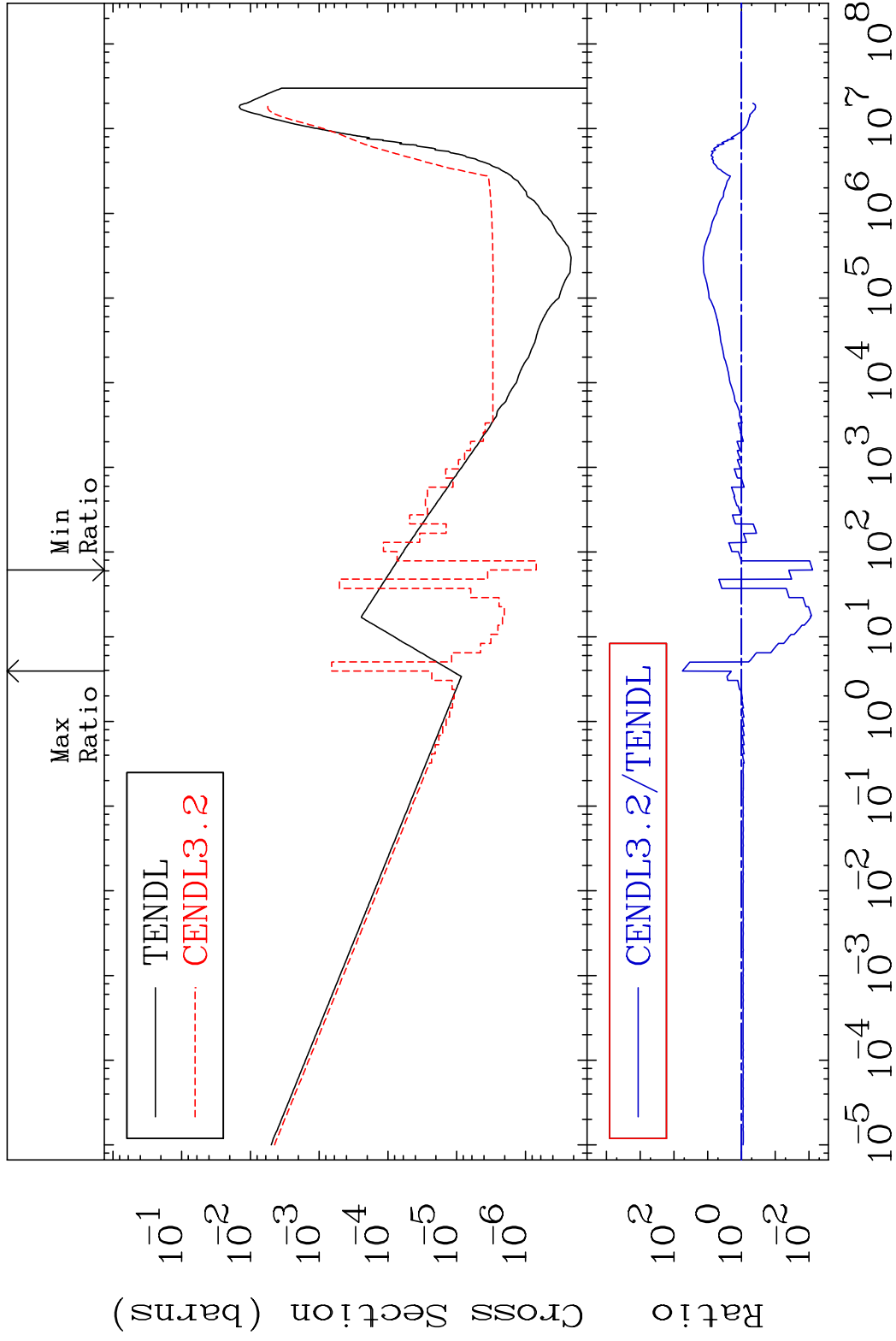
60-Nd-145

MAT 6034

(n, α)

60-Nd-145

Cross Section -99.21 To 5558. %

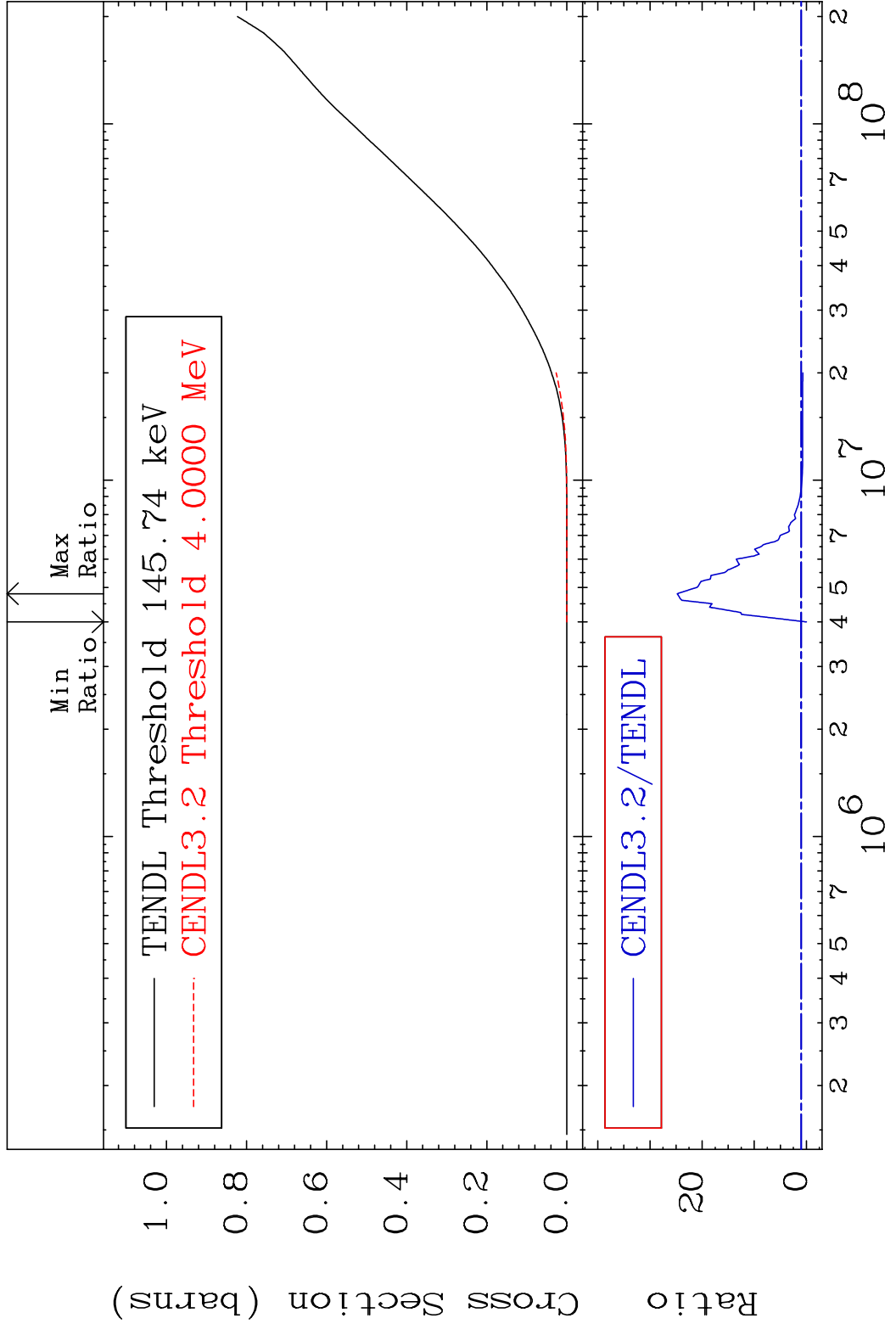


33

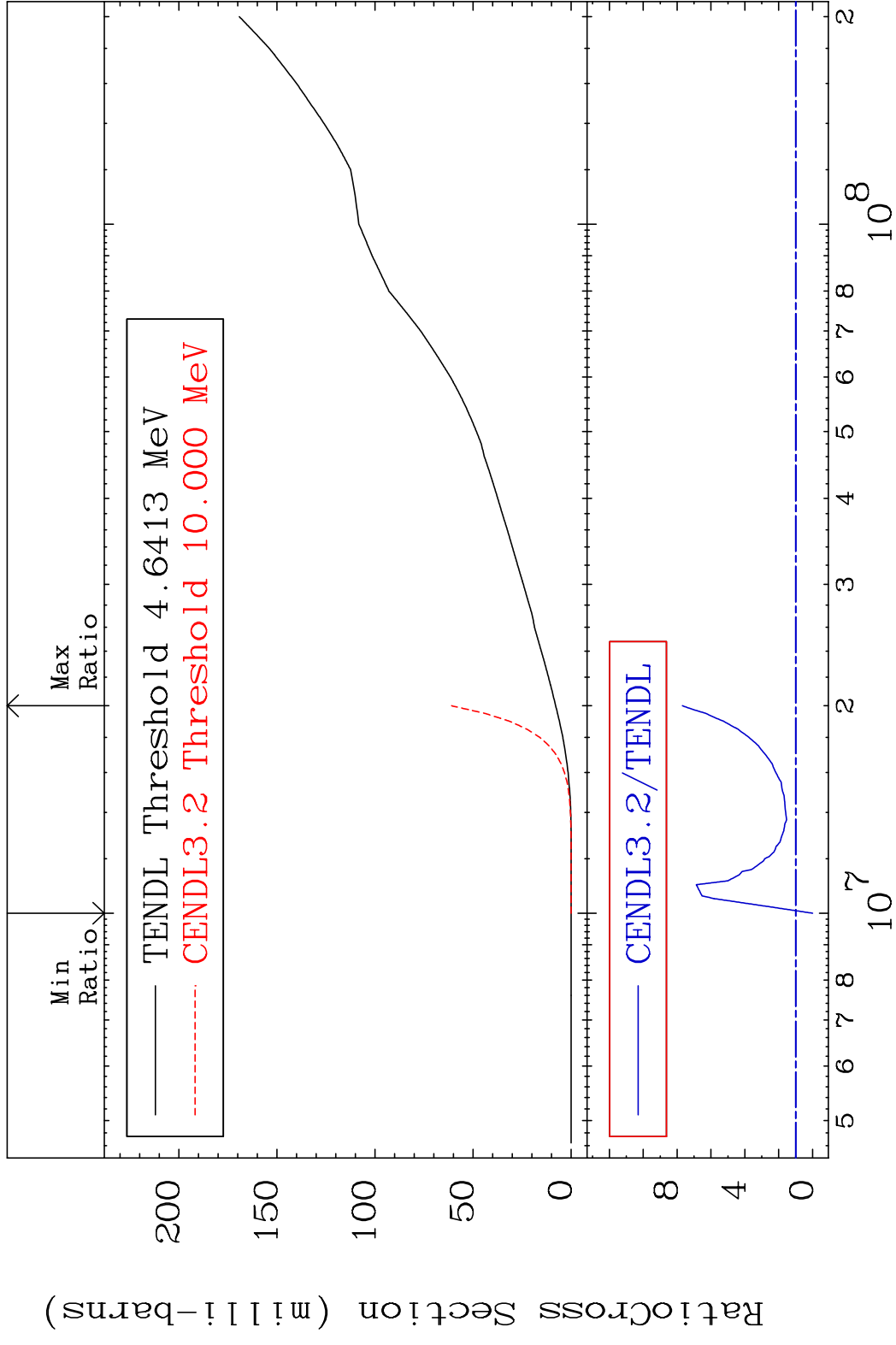
Incident Energy (eV)

60-Nd-145

MAT 6034 Hydrogen Production 60-Nd-145
 Cross Section -100.0 To 2378. %

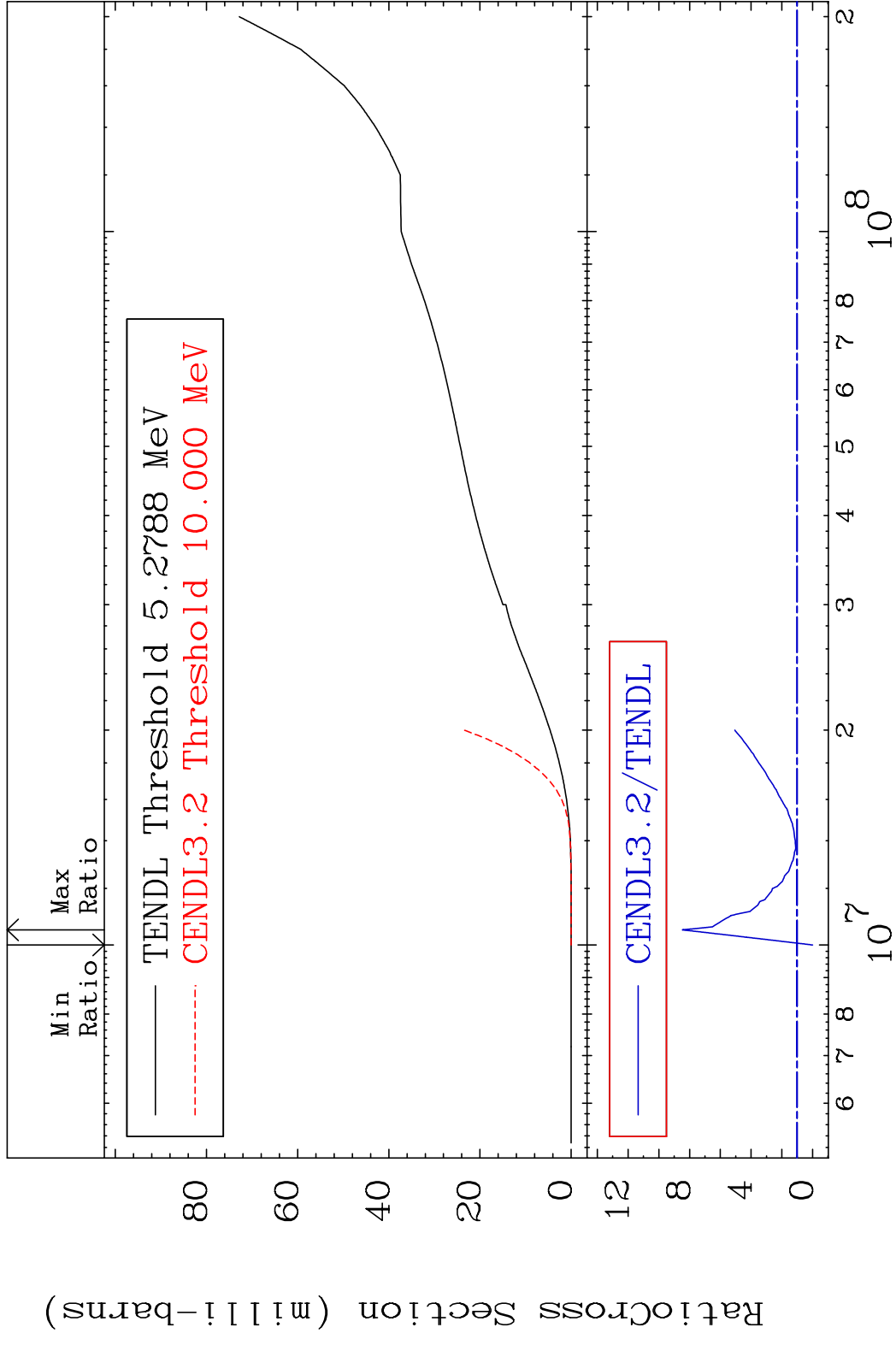


MAT 6034 Deuterium Production 60-Nd-145
 Cross Section -100.0 To 669.0 %



MAT 6034

Tritium Production 60-Nd-145
Cross Section -100.0 To 747.0 %

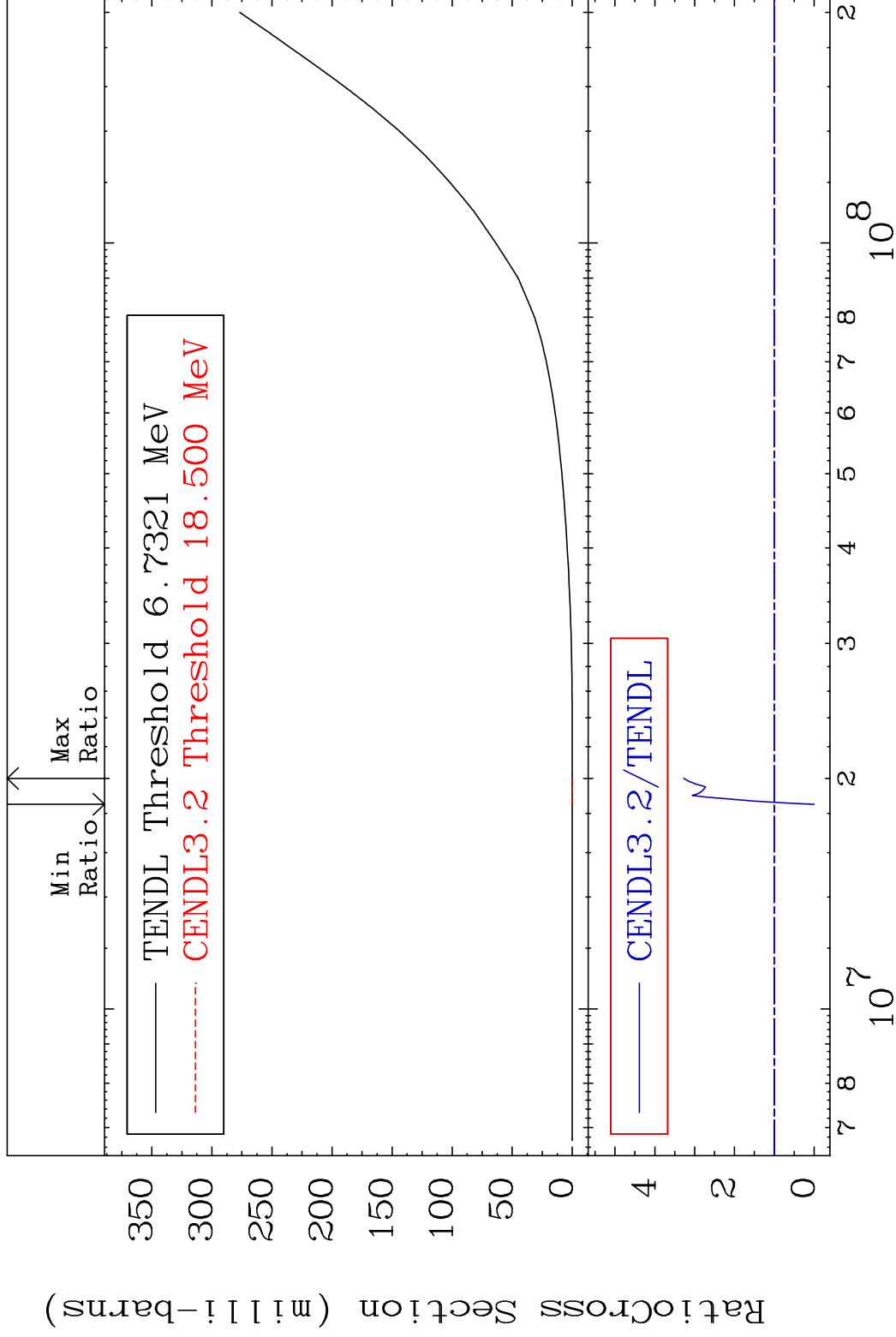


MAT 6034

He-3 Production

60-Nd-145

Cross Section -100.0 To 227.5 %



37

Incident Energy (eV)

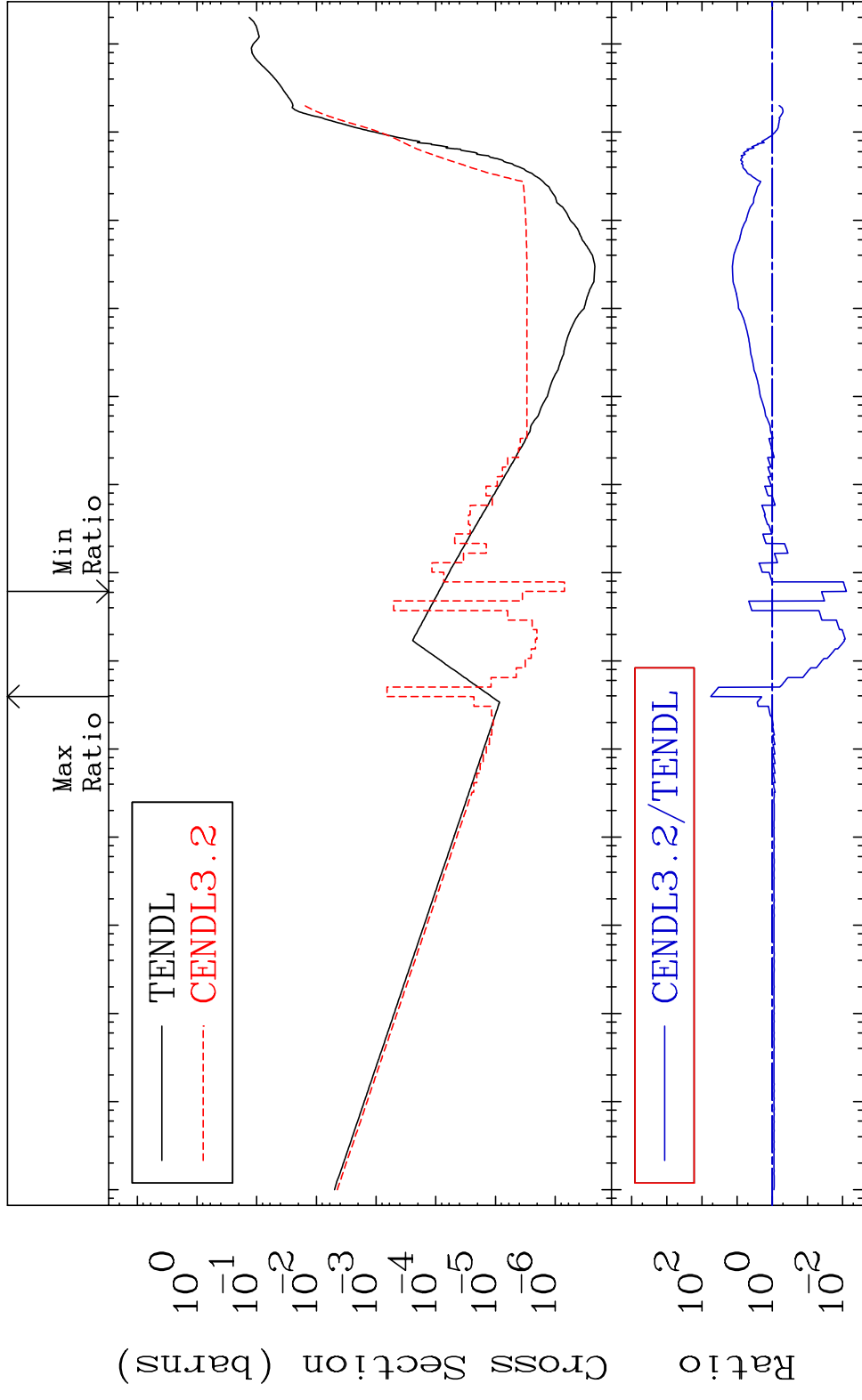
60-Nd-145

MAT 6034

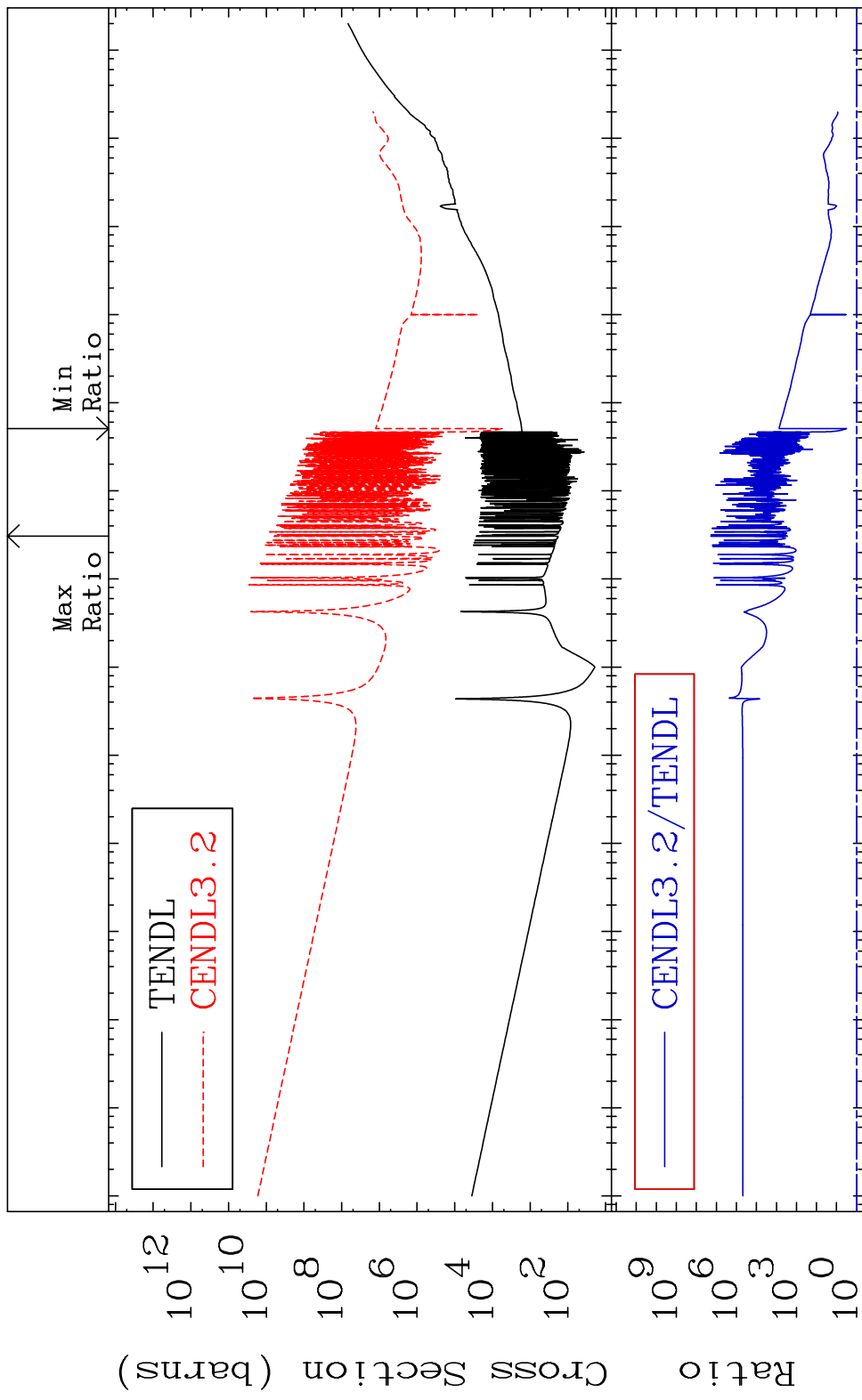
He-4 Production

60-Nd-145

Cross Section -99.21 To 5558. %



MAT 6034 Kerma total (eV-barns) 60-Nd-145
 Cross Section 223.7 To 9999. %

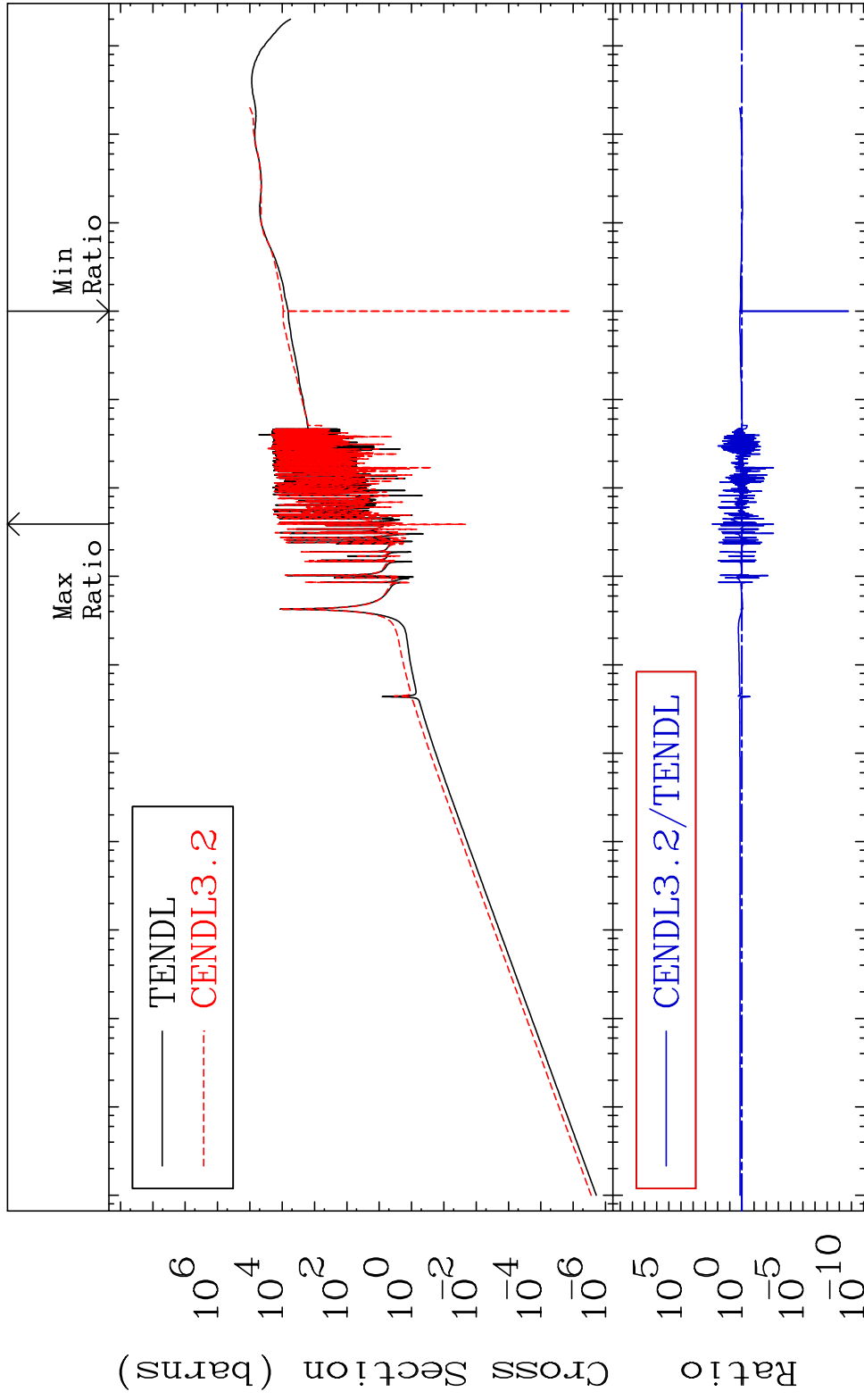


MAT 6034

Kerma elastic

60-Nd-145

Cross Section -100.0 To 9999. %

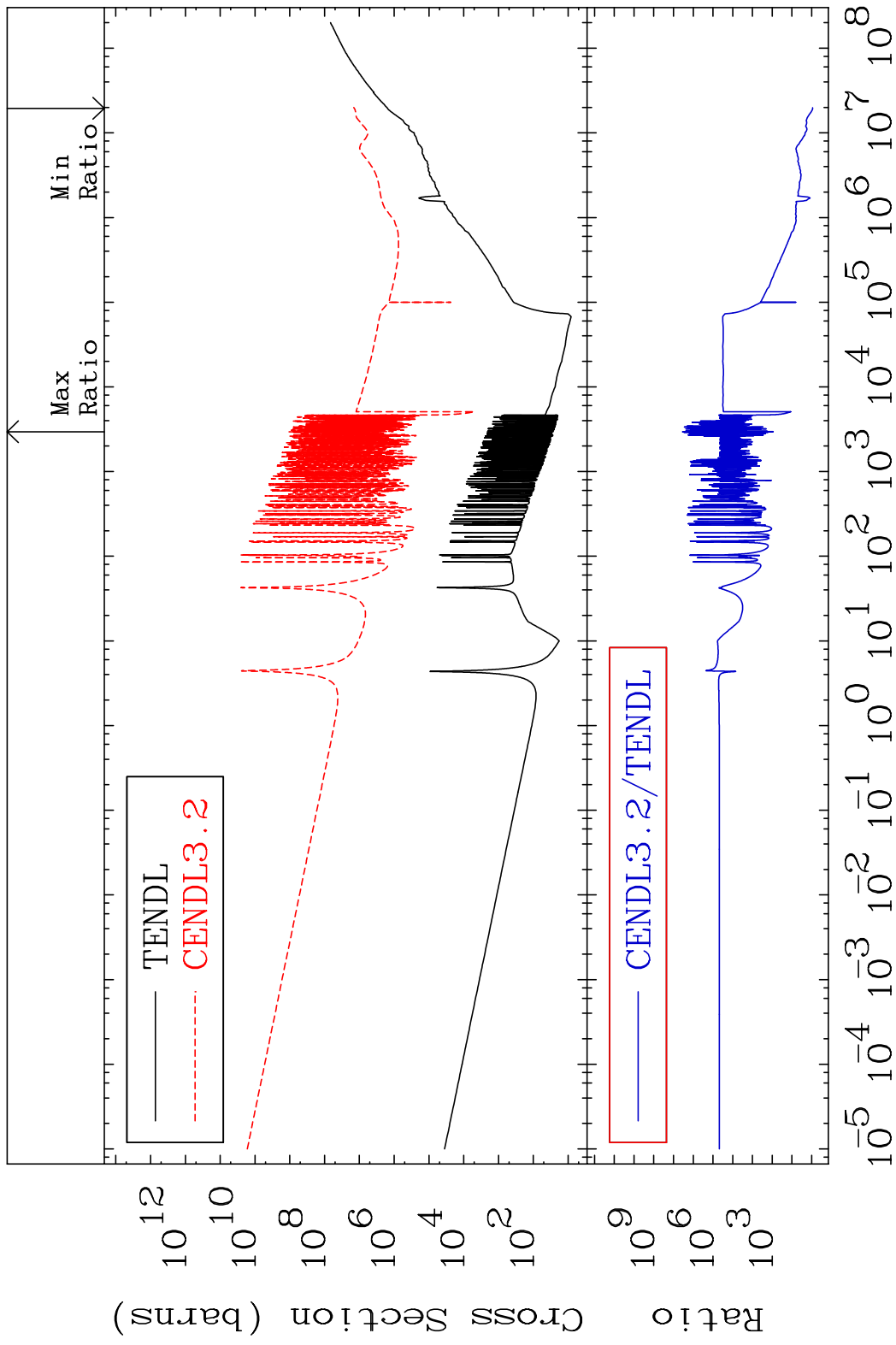


40

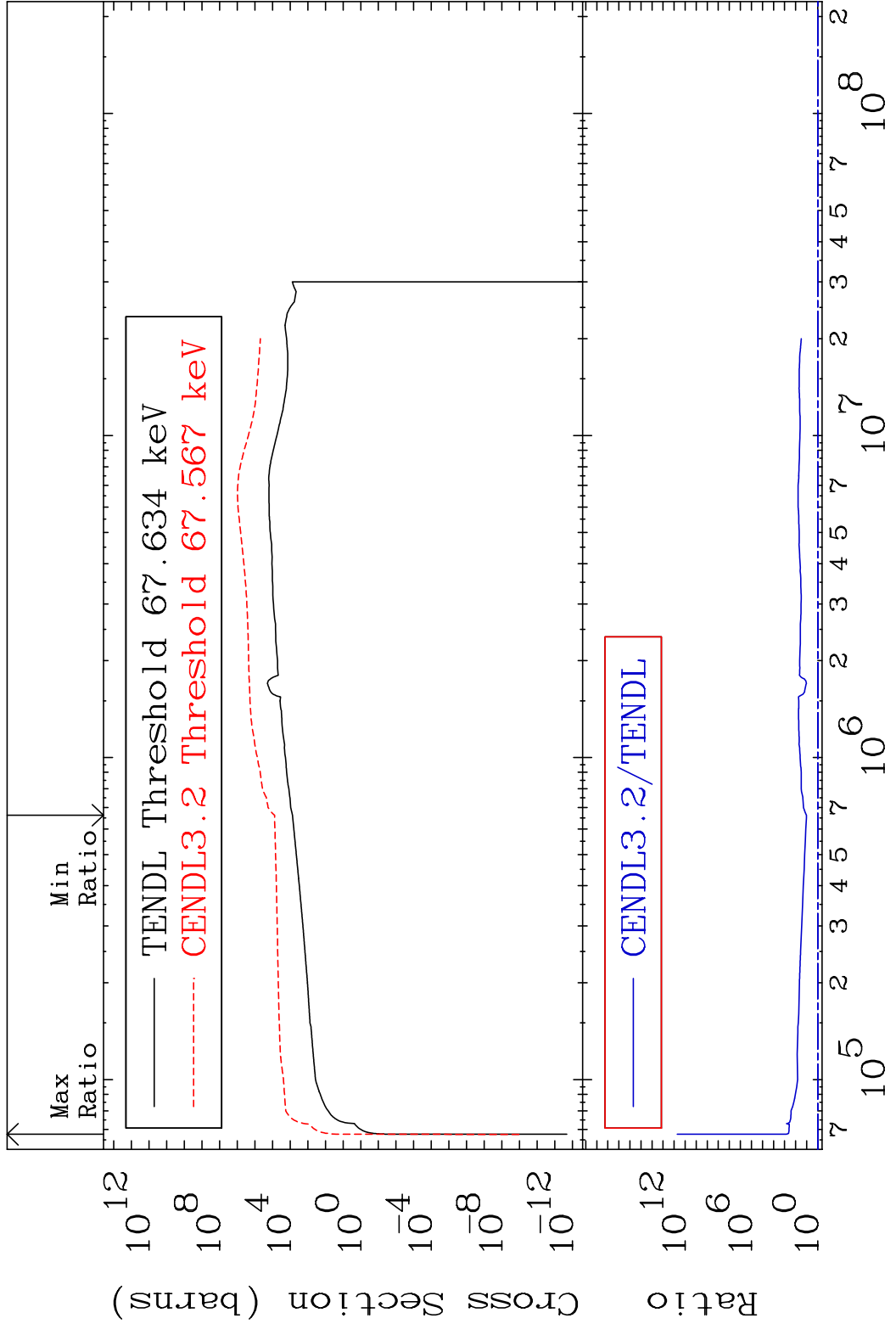
Incident Energy (eV)

60-Nd-145

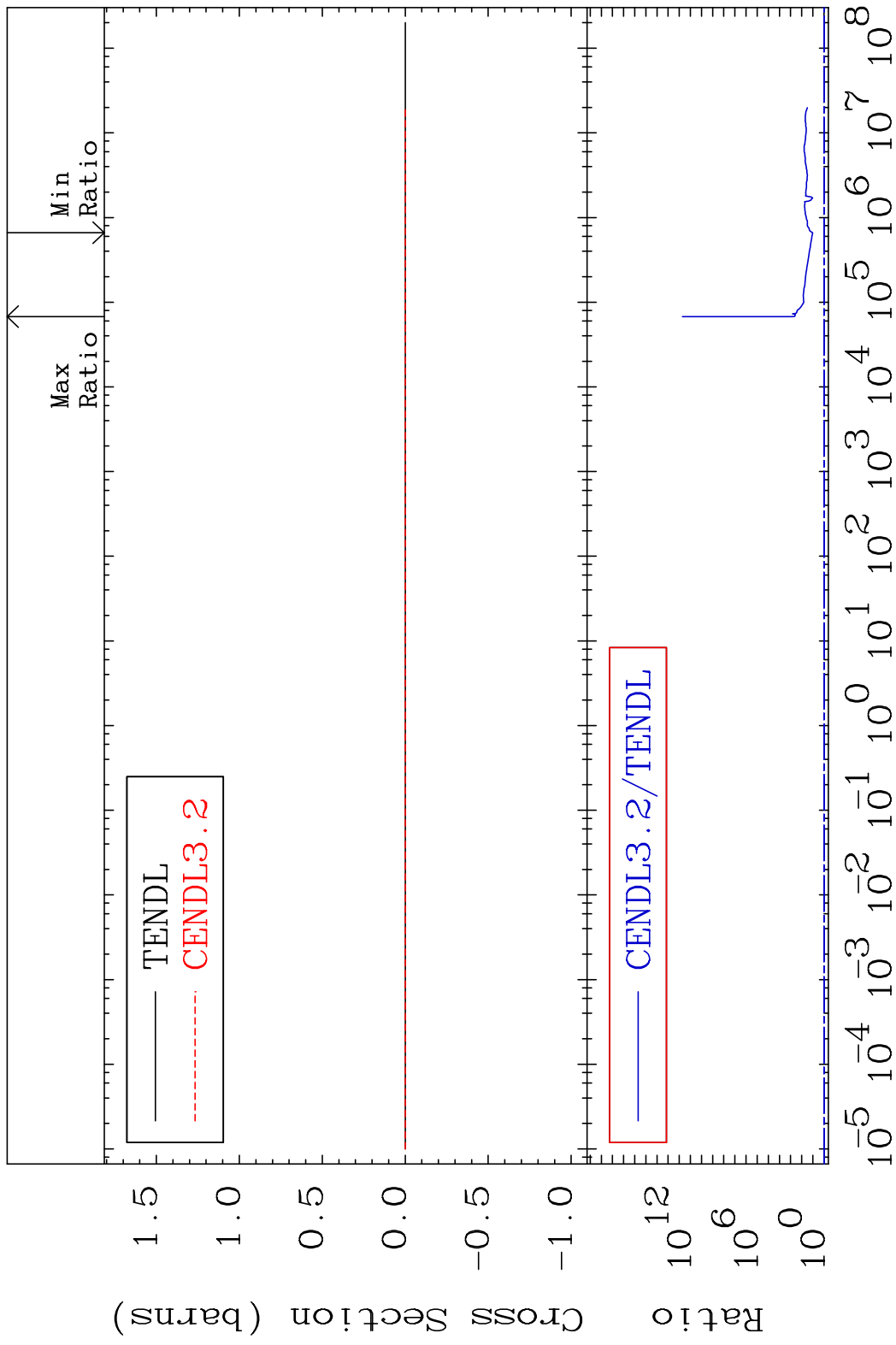
MAT 6034 Kerma non-elastic (all but mt2) 60-Nd-145
 Cross Section 801.8 To 9999. %



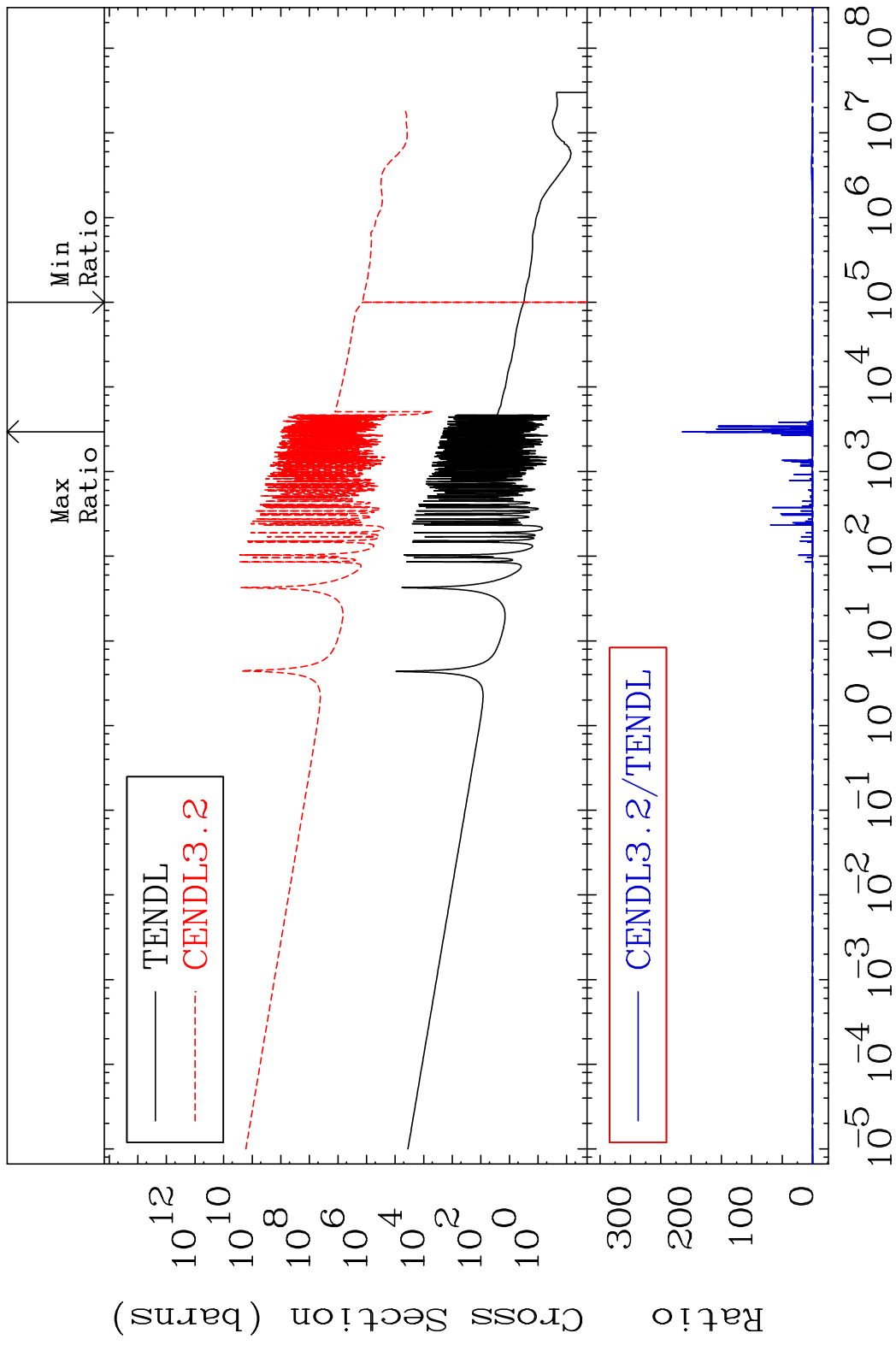
MAT 6034 Kerma inelastic (mt51-91) 60-Nd-145
 Cross Section 956.2 To 9999. %



MAT 6034 Kerma fission (mt18 or mt19-20-21-38) 60-Nd-145
 Cross Section 956.2 To 9999. %

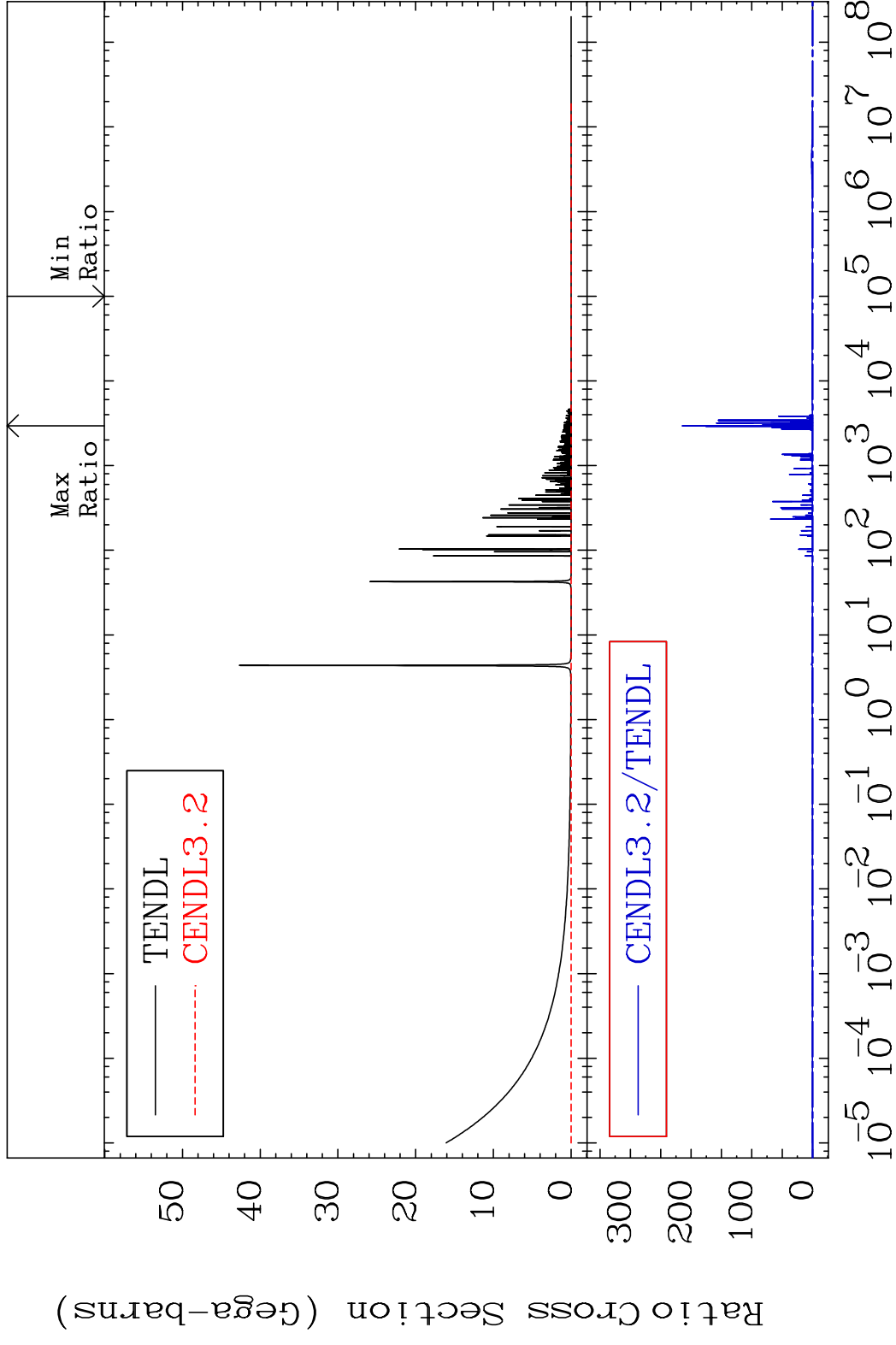


MAT 6034 Kerma capture (mt102) 60-Nd-145
 Cross Section -100.0 To 9999. %

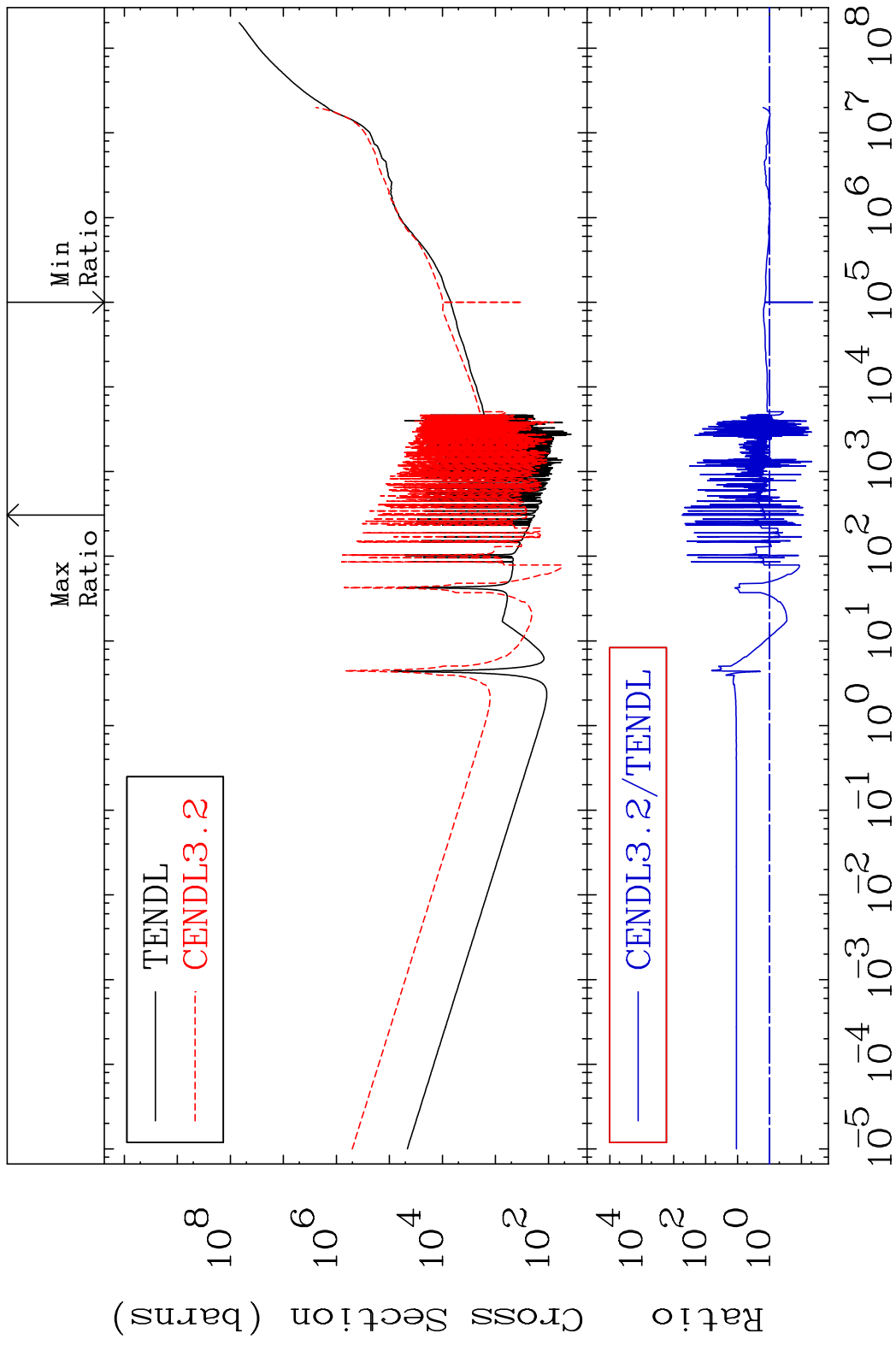


44 Incident Energy (eV) 60-Nd-145

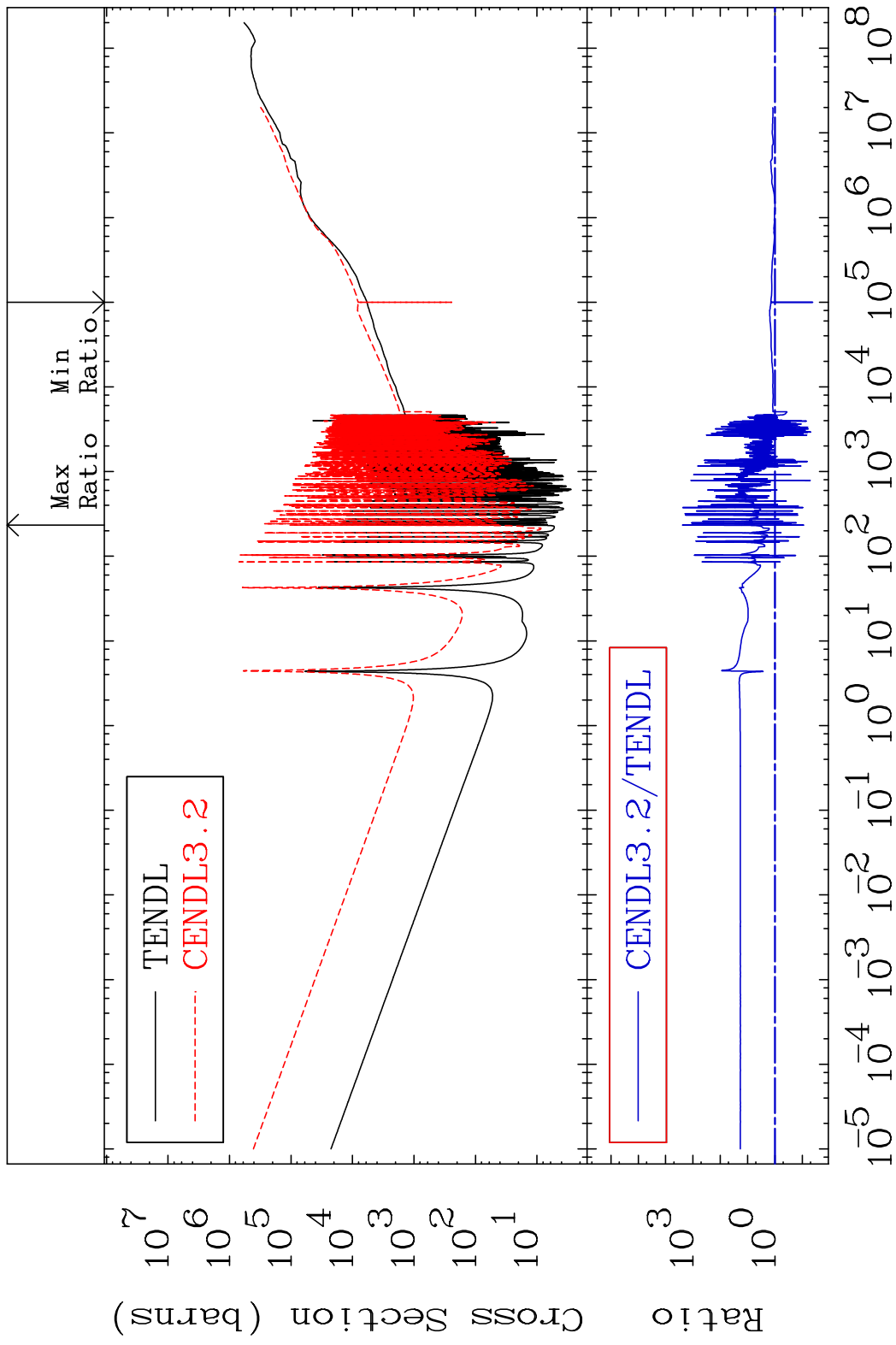
MAT 6034 Total photon (eV-barns) 60-Nd-145
 Cross Section -100.0 To 9999. %



MAT 6034 Total kinematic kerma (high limit) 60-Nd-145
 Cross Section -95.48 To 9999. %



MAT 6034 Dpa total (eV-barns) 60-Nd-145
 Cross Section -95.80 To 9999. %



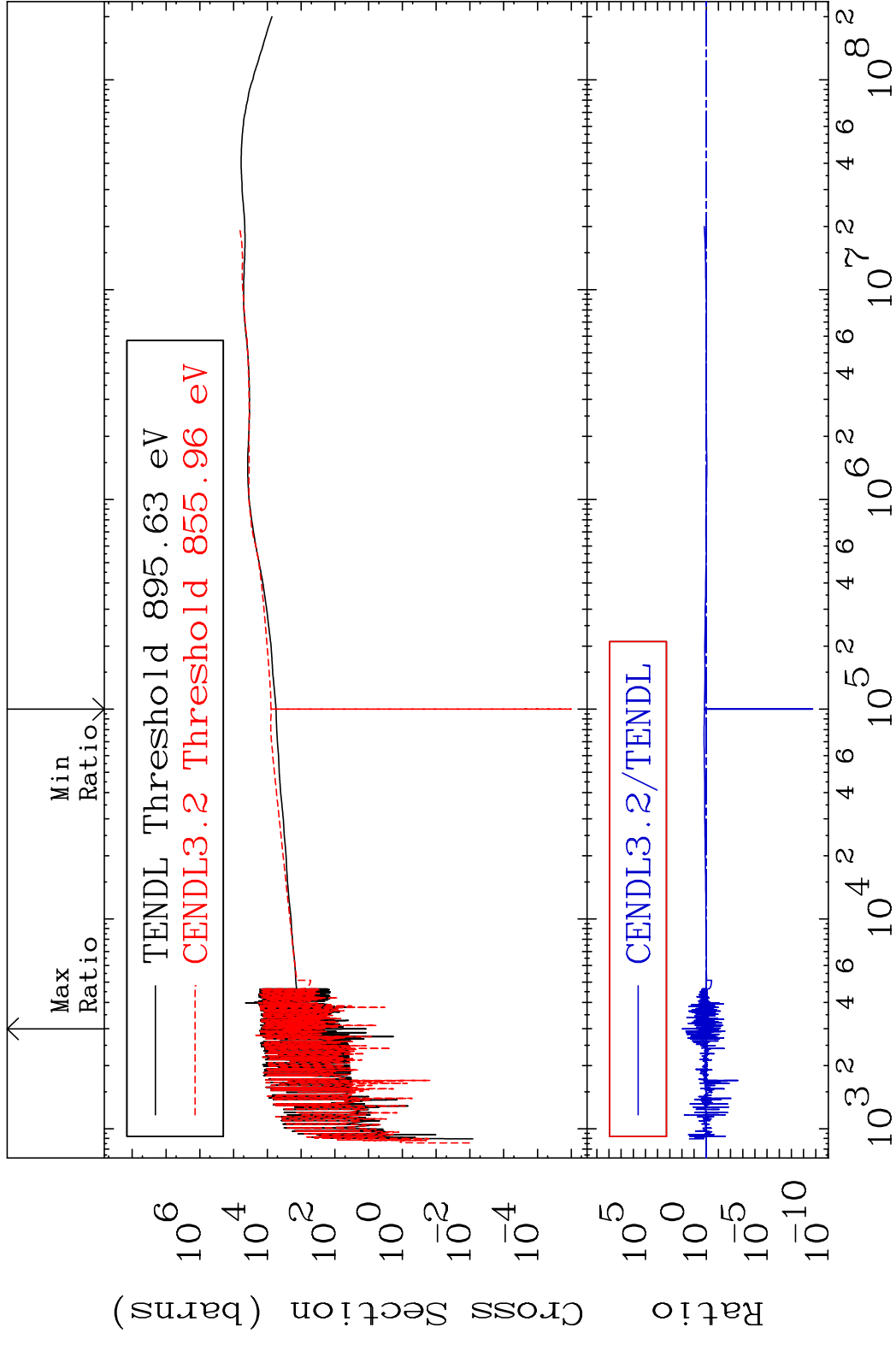
47 Incident Energy (eV) 60-Nd-145

MAT 6034

Dpa elastic (mt2)

60-Nd-145

Cross Section -100.0 To 9157. %

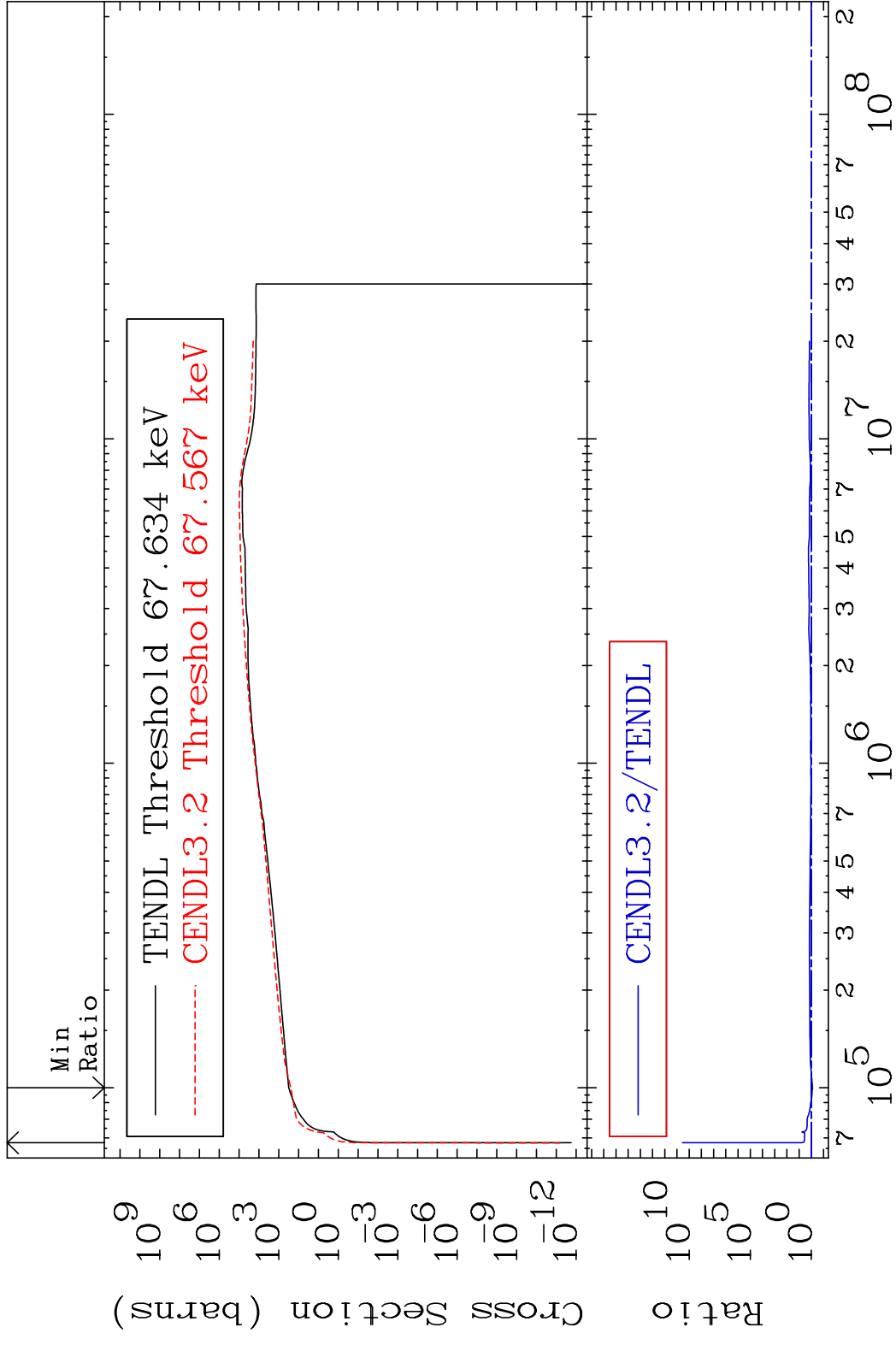


48

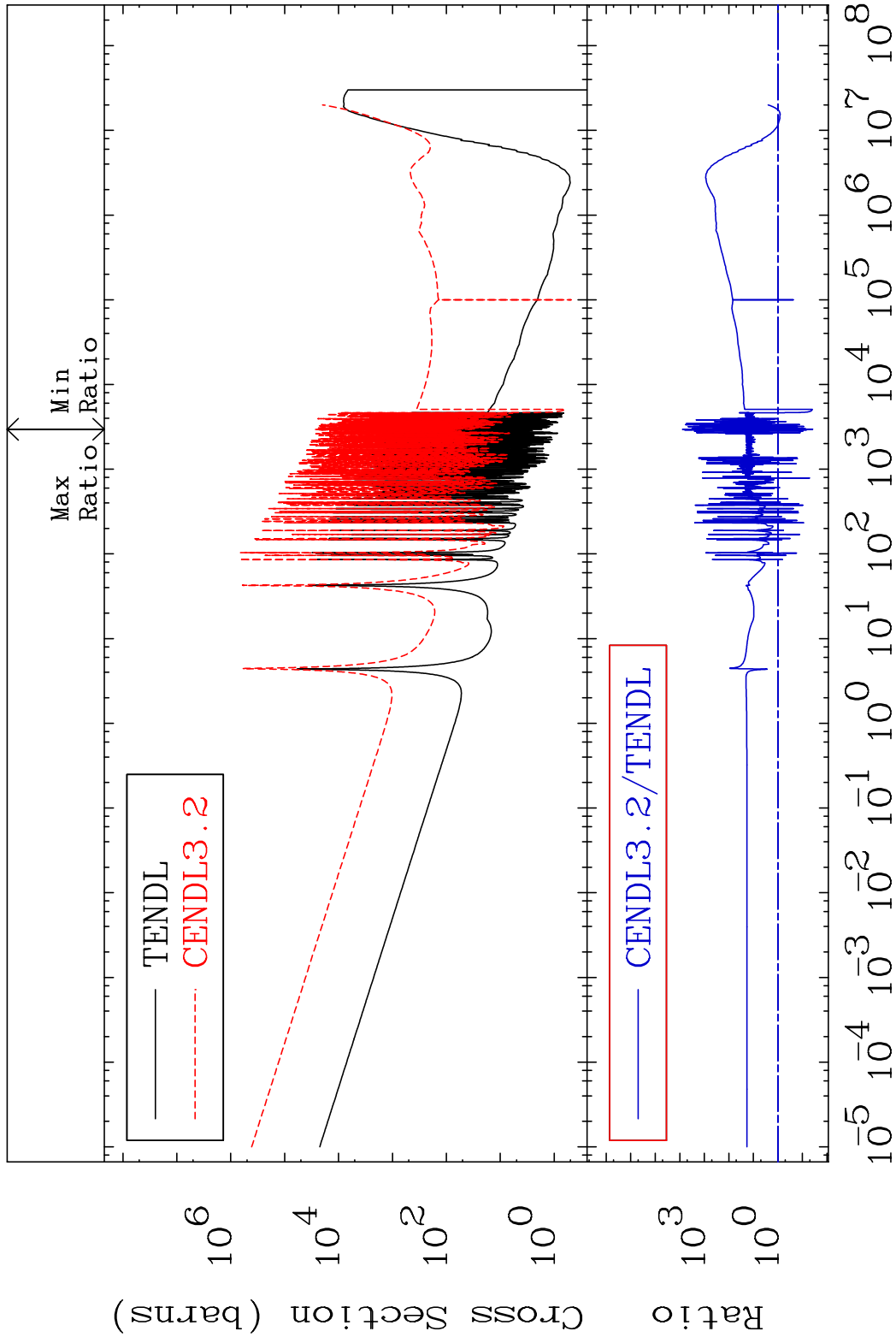
Incident Energy (eV)

60-Nd-145

MAT 6034 Dpa inelastic (mt51-91) 60-Nd-145
 Cross Section -21.35 To 9999. %



MAT 6034 Dpa disappearance (mt102 -120) 60-Nd-145
 Cross Section -96.14 To 9999. %



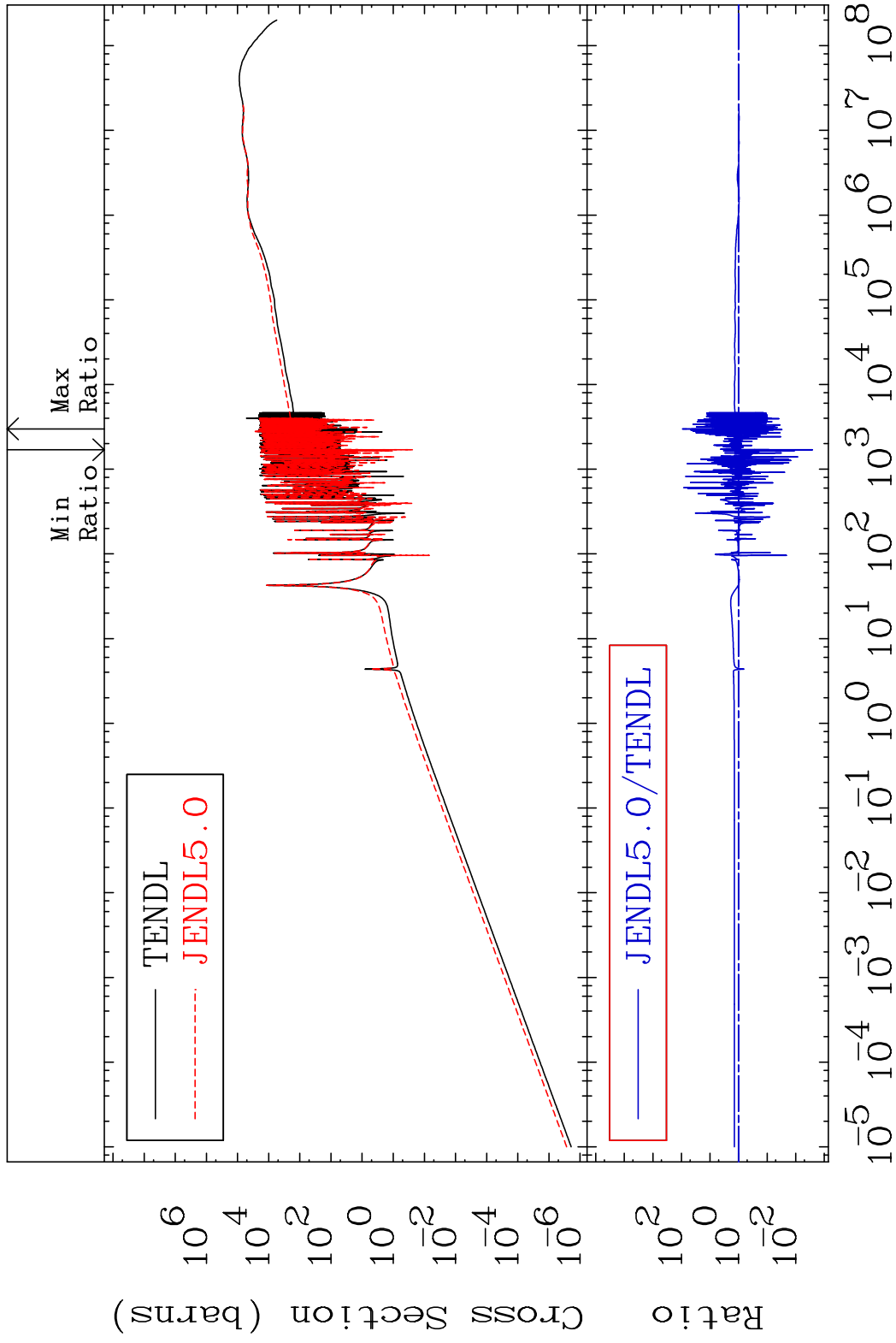
50 Incident Energy (eV) 60-Nd-145

MAT 6034

Kerma elastic

60-Nd-145

Cross Section -99.74 To 9186. %

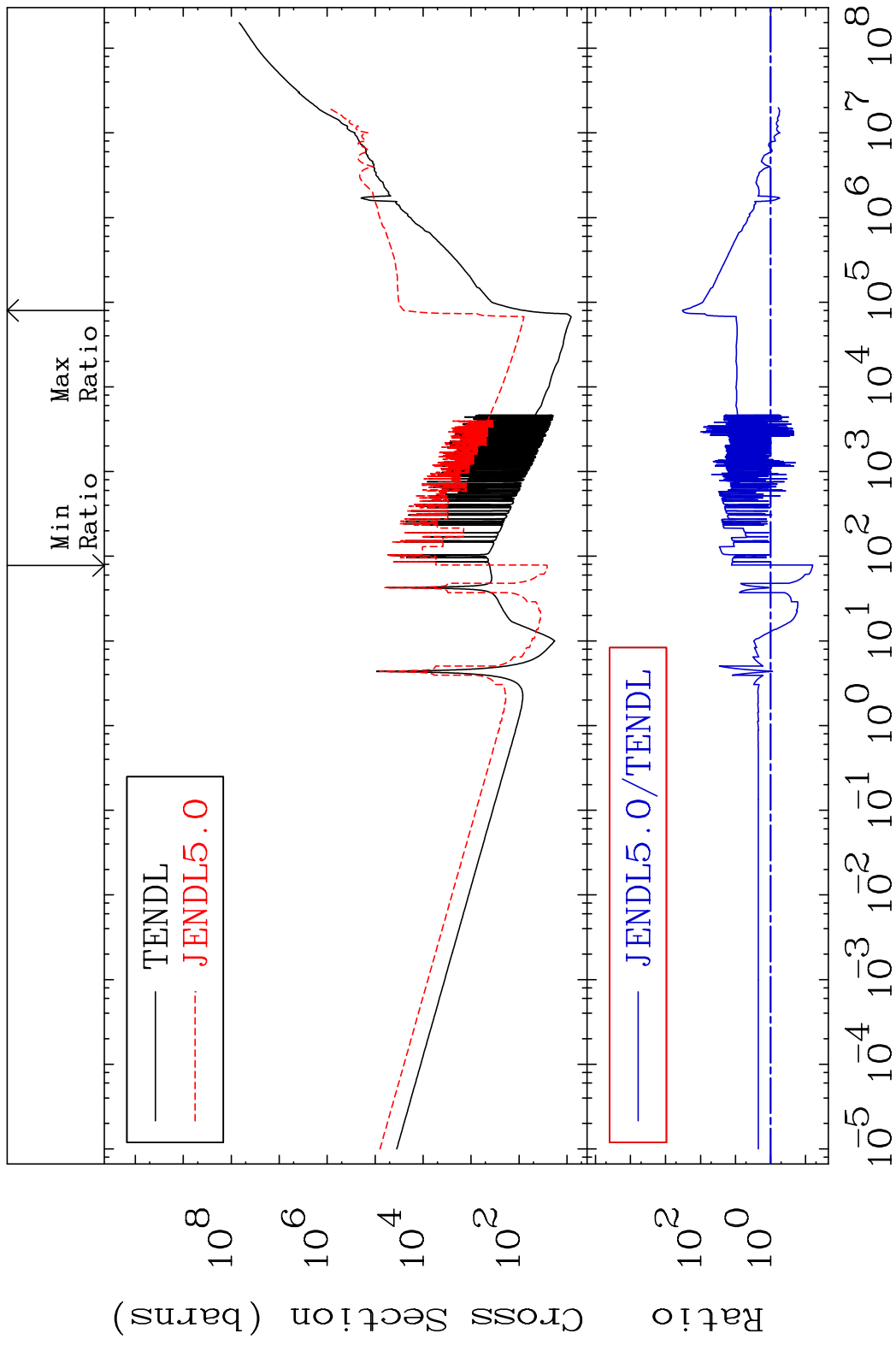


51

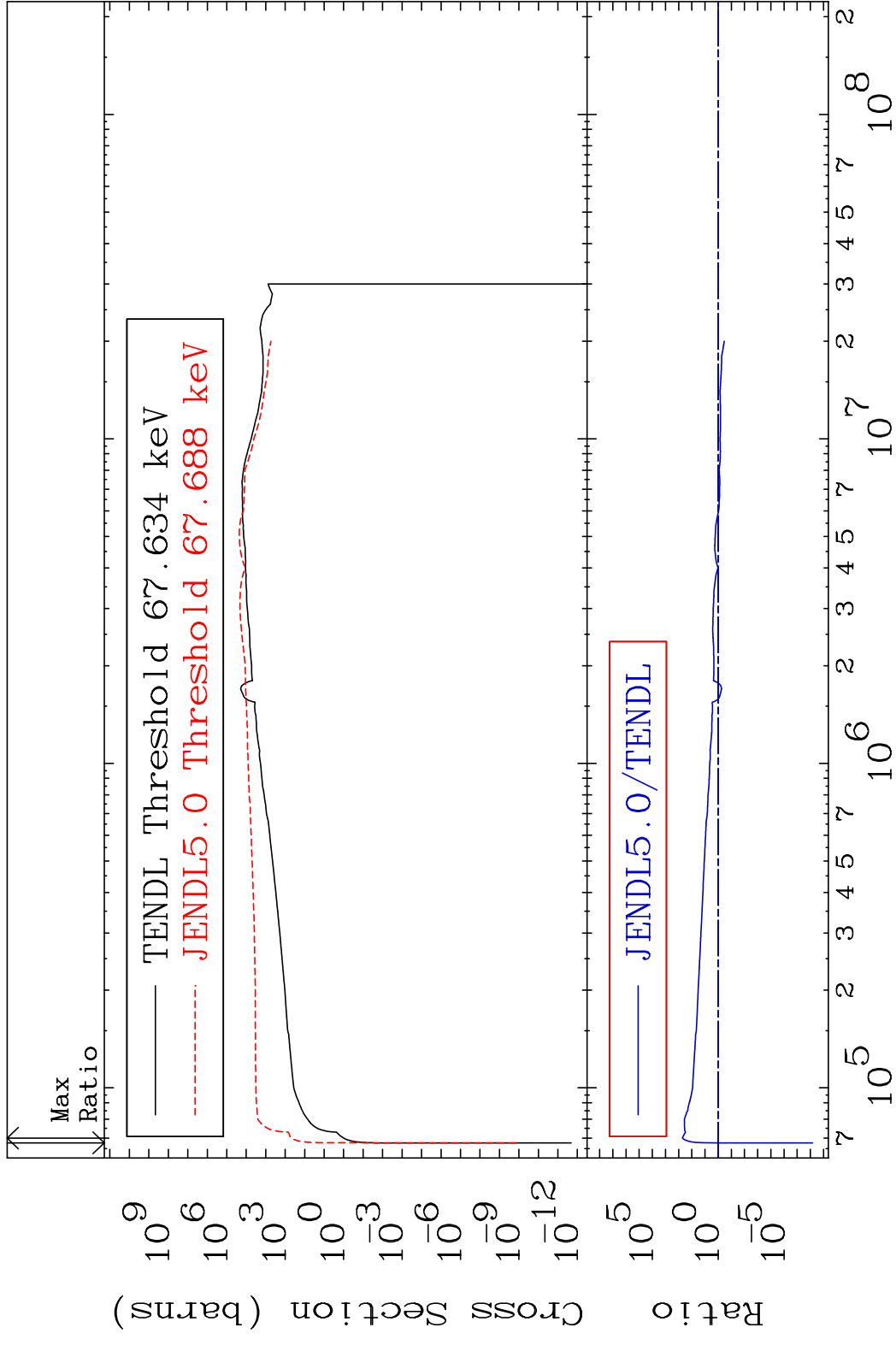
Incident Energy (eV)

60-Nd-145

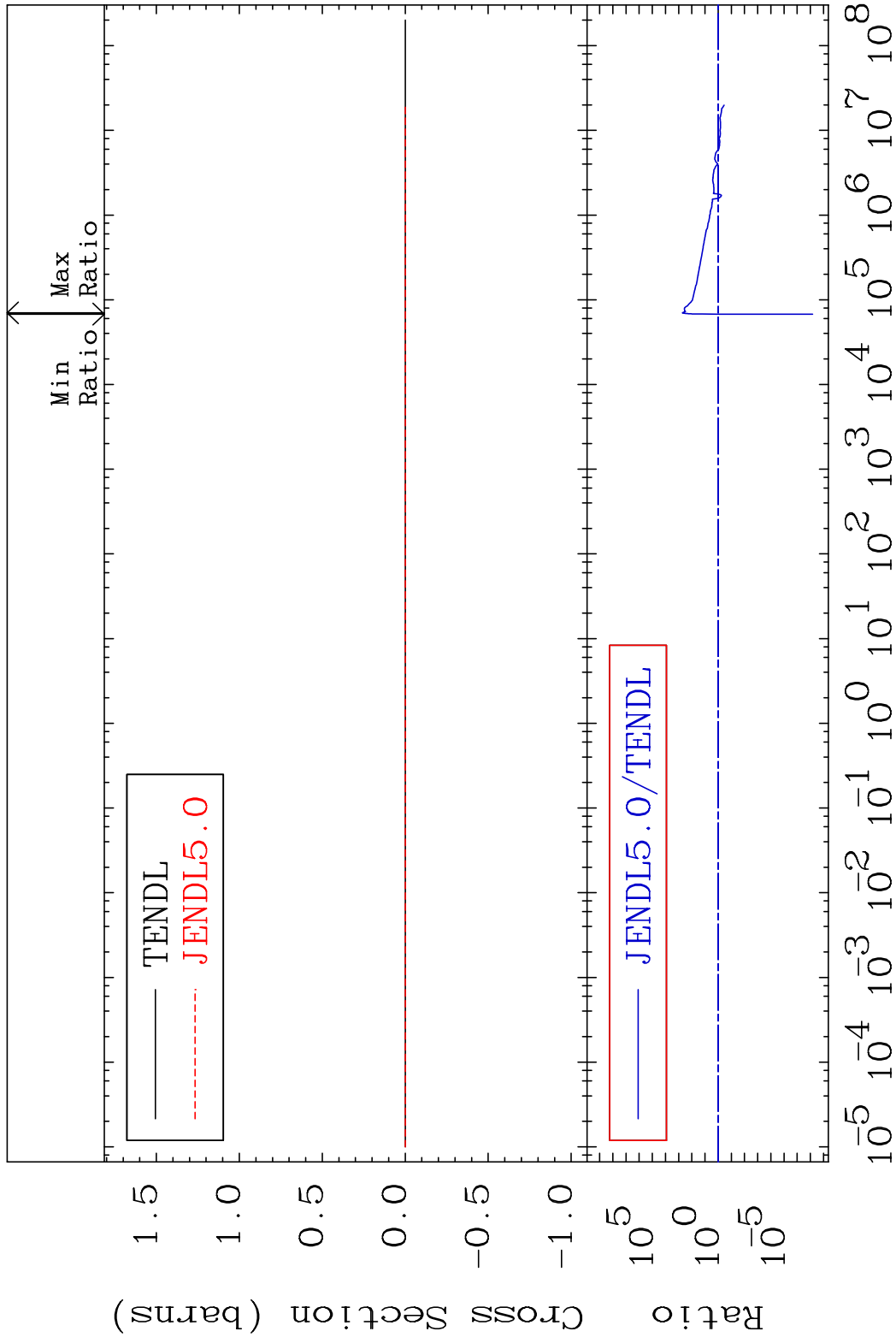
MAT 6034 Kerma non-elastic (all but mt2) 60-Nd-145
 Cross Section -93.69 To 9999. %



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. %

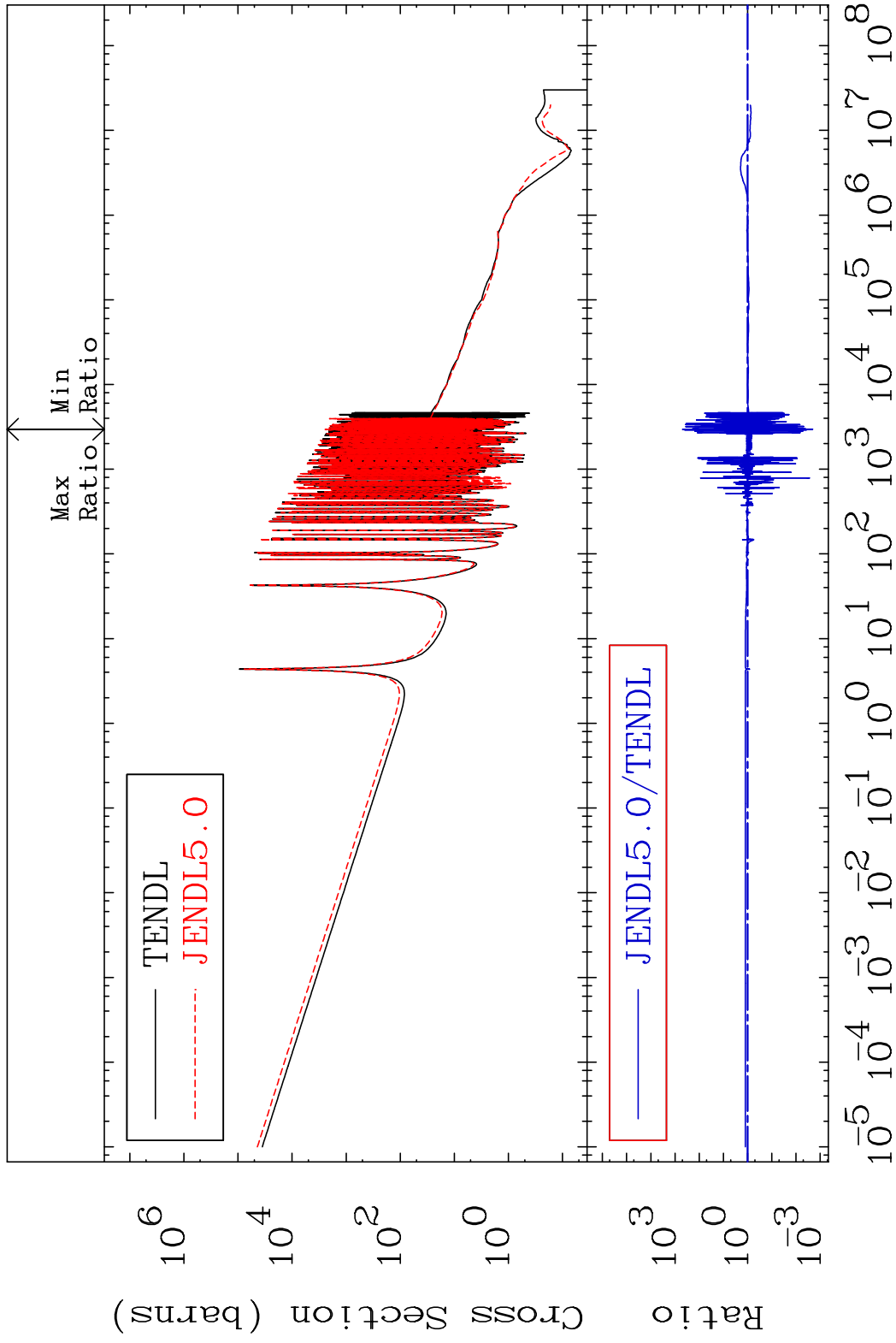


MAT 6034

Kerma capture (mt102)

60-Nd-145

Cross Section -99.79 To 9999. %

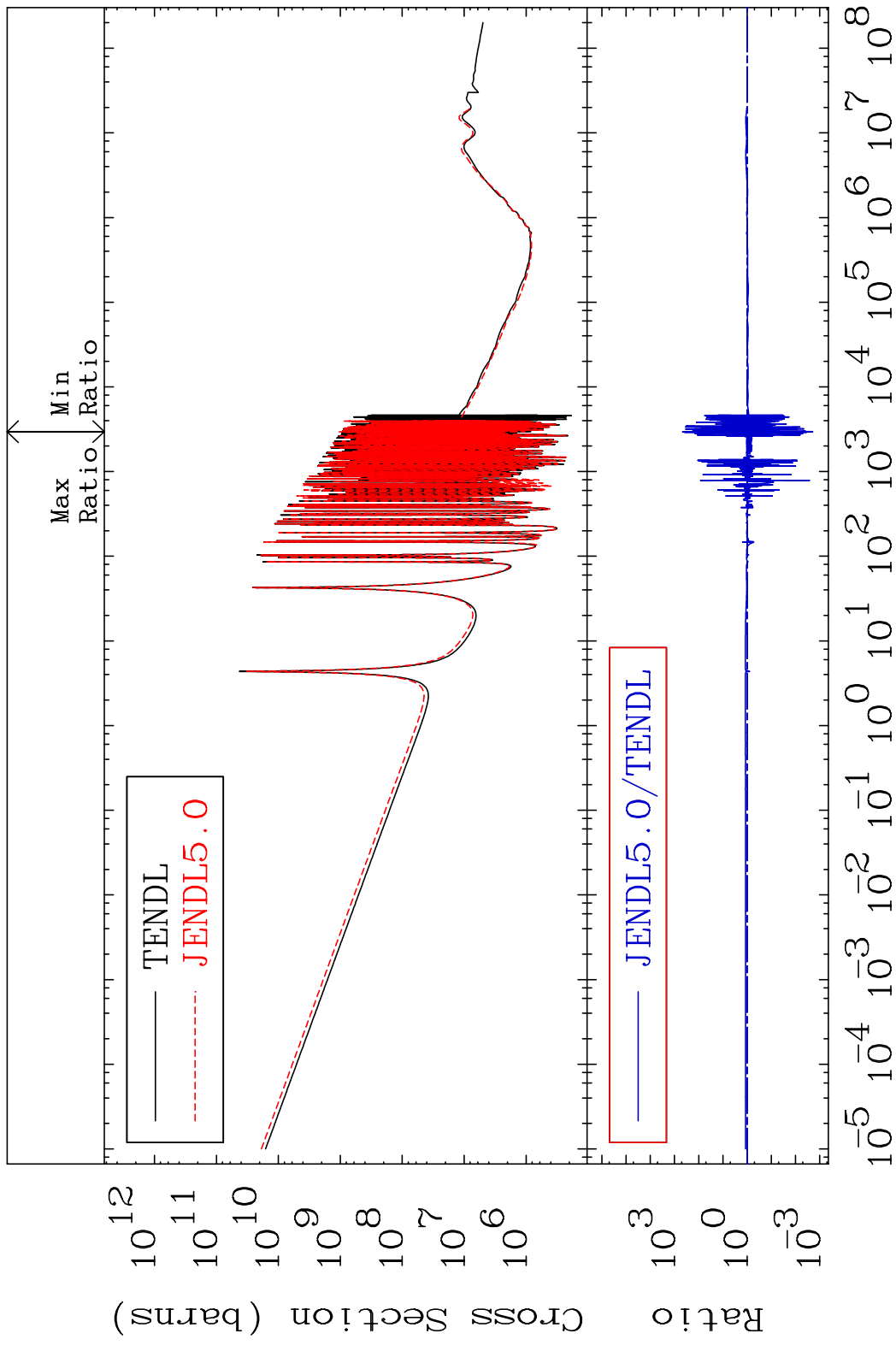


55

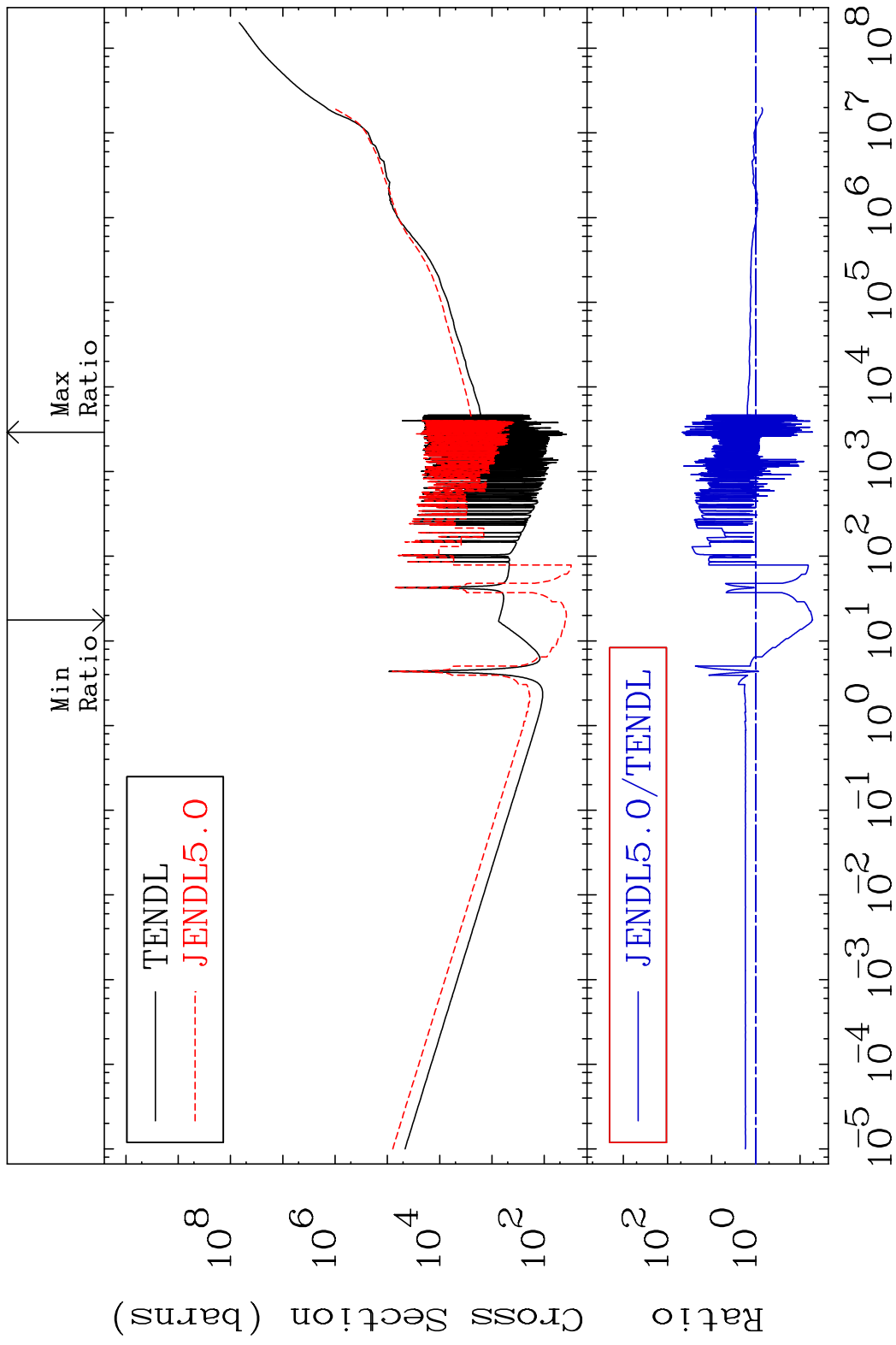
Incident Energy (eV)

60-Nd-145

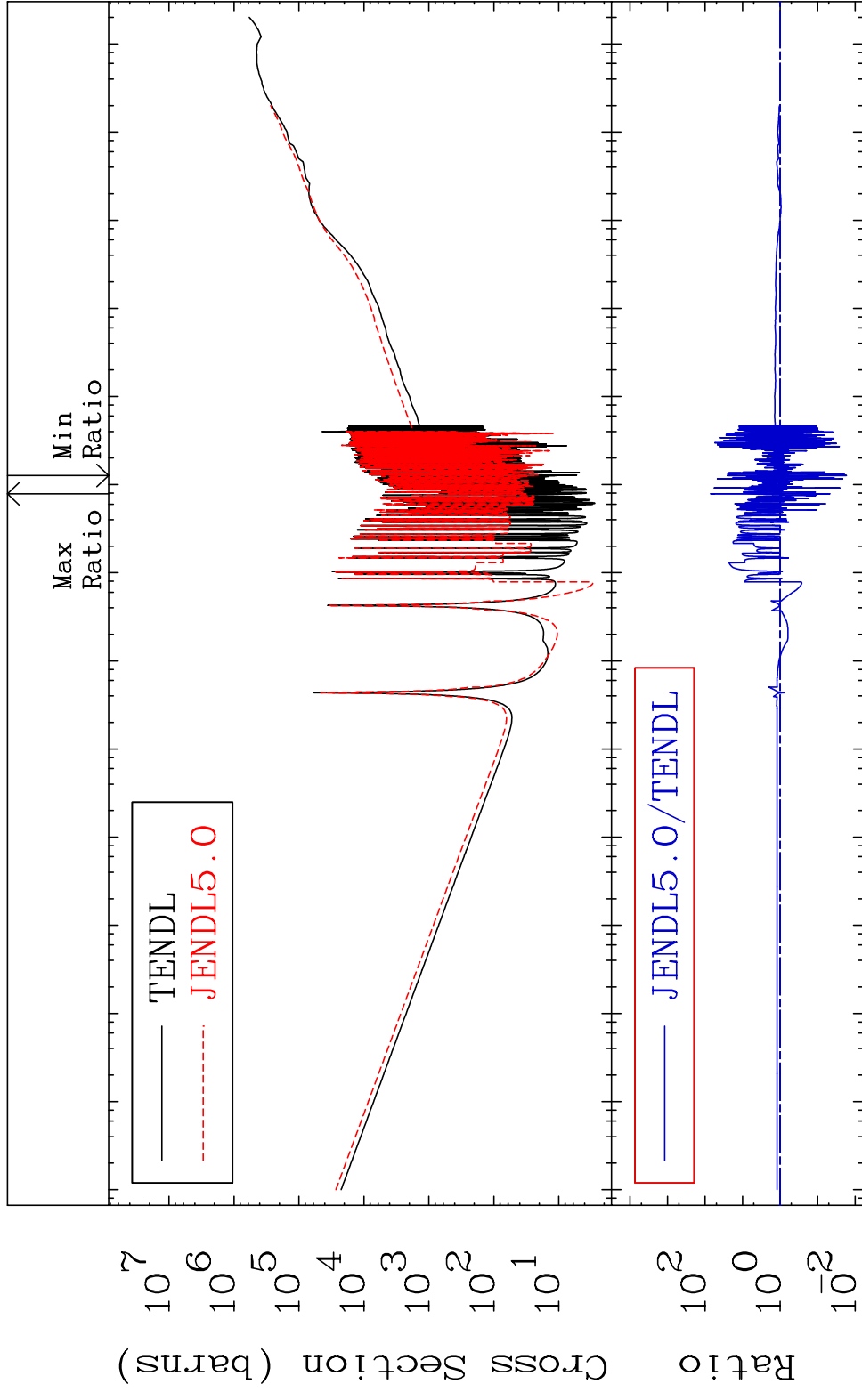
MAT 6034 Total photon (eV-barns) 60-Nd-145
Cross Section -99.80 To 9999. %



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. %

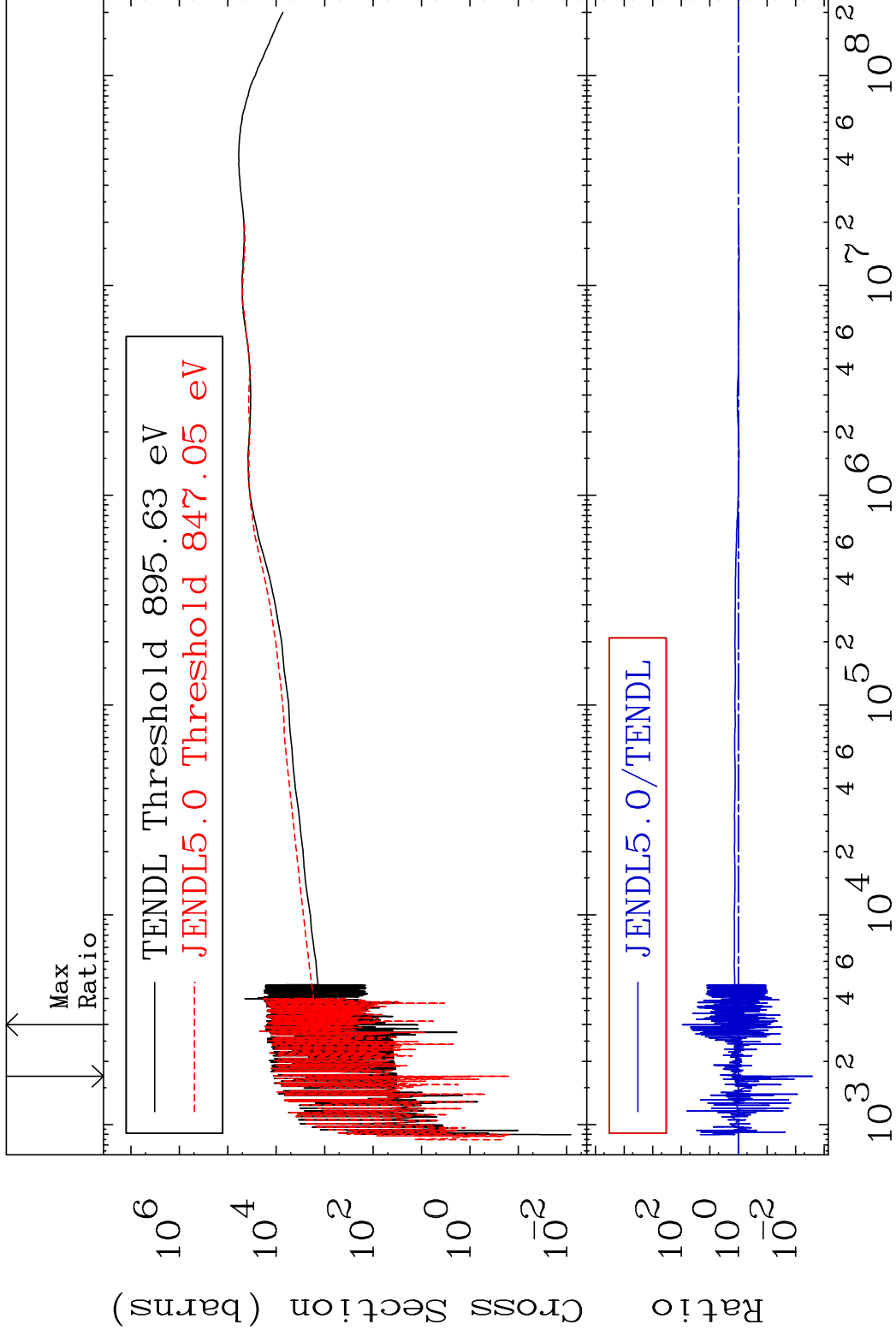


MAT 6034

Dpa elastic (mt2)

60-Nd-145

Cross Section -99.74 To 9224. %

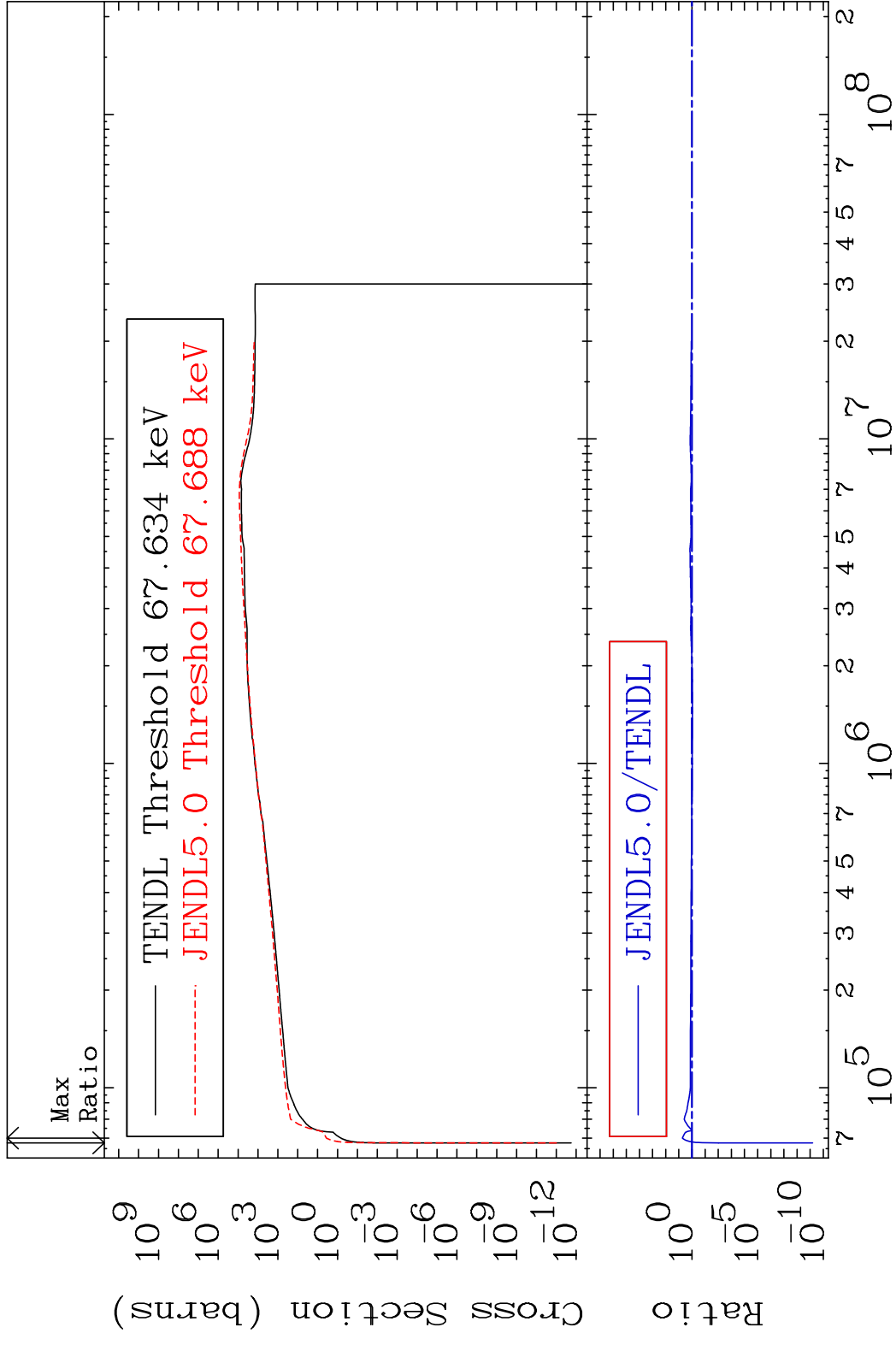


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Incident Energy (eV)

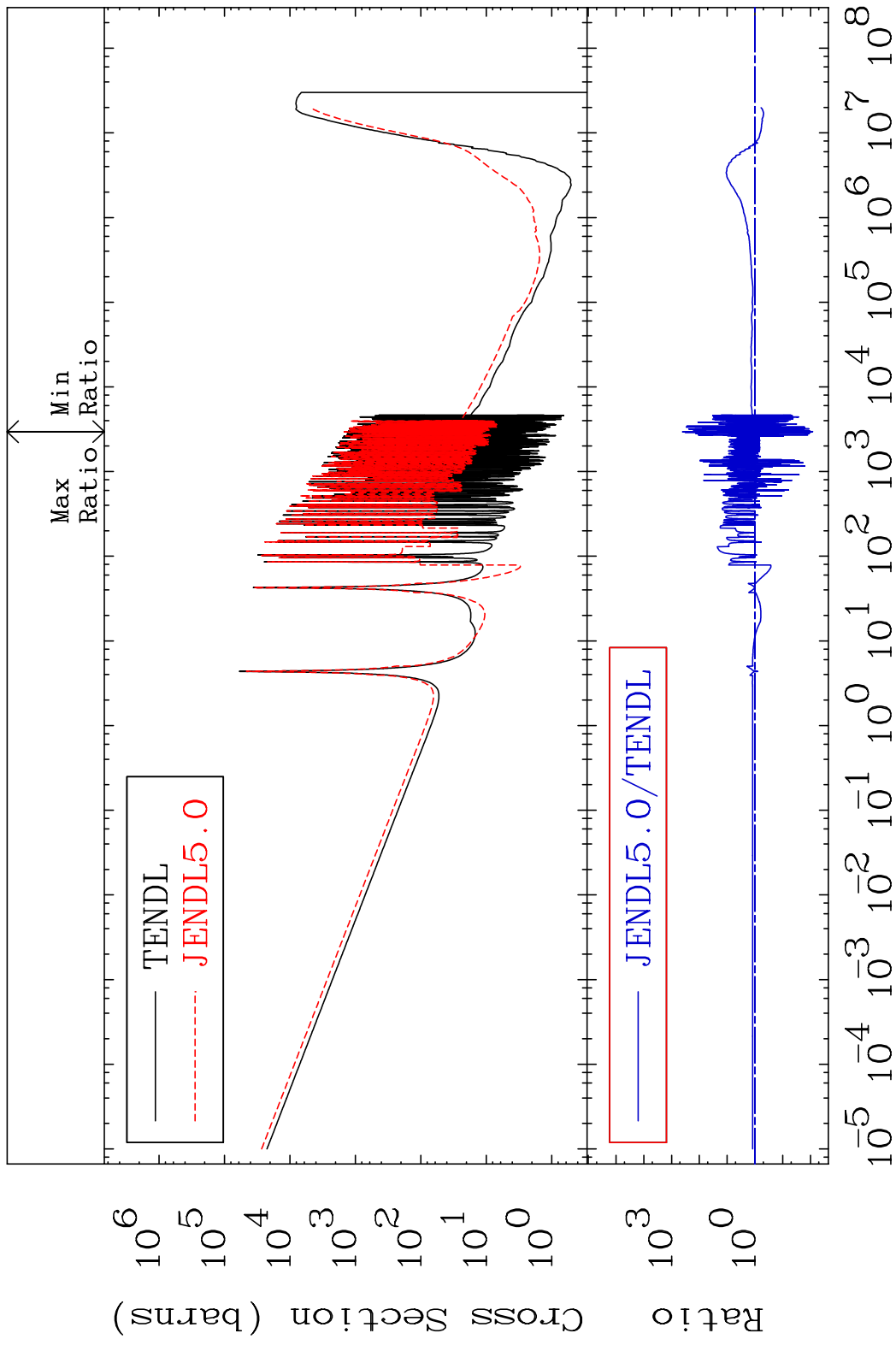
60-Nd-145

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

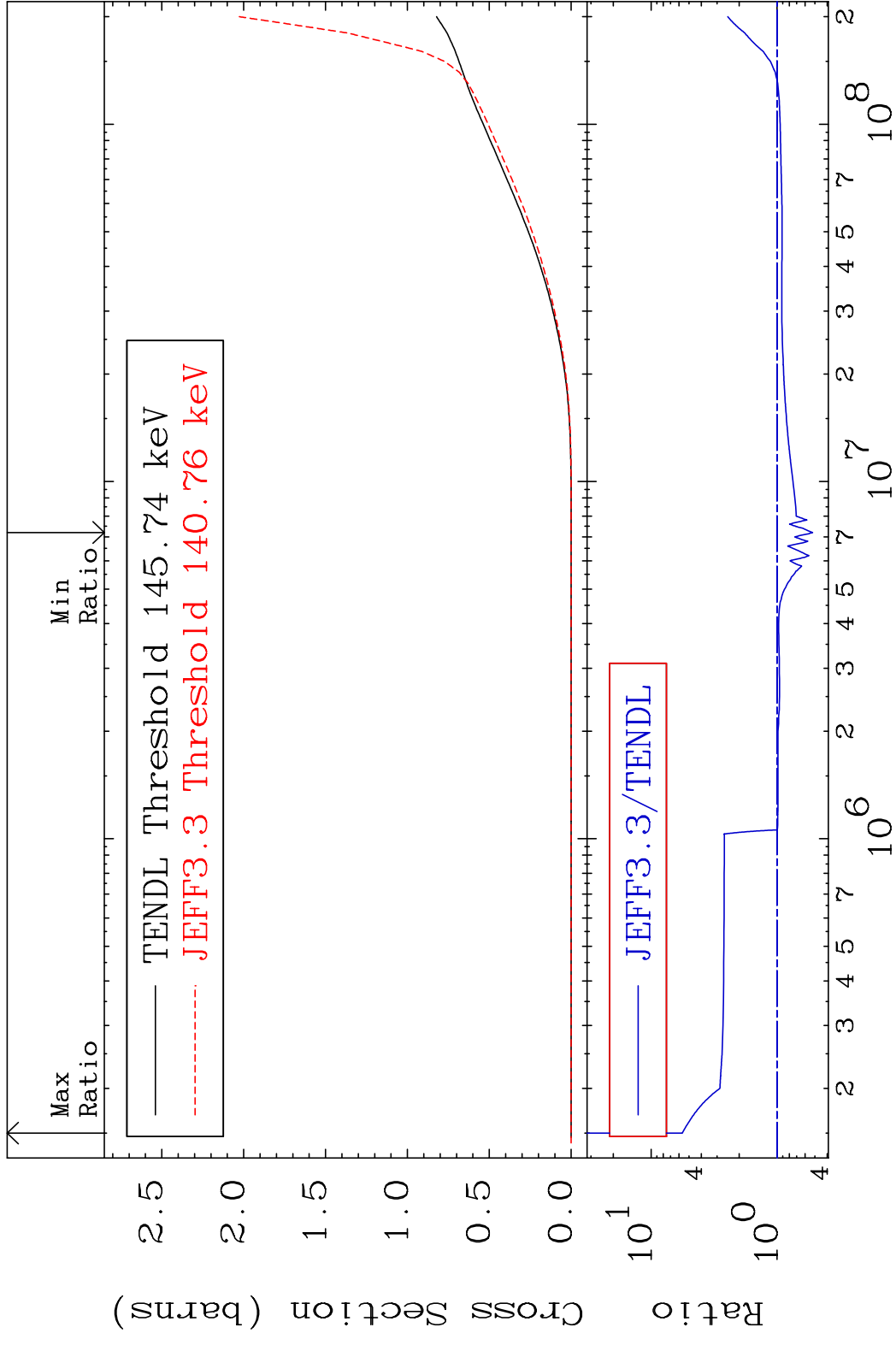


60 Incident Energy (eV) 60-Nd-145

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 %

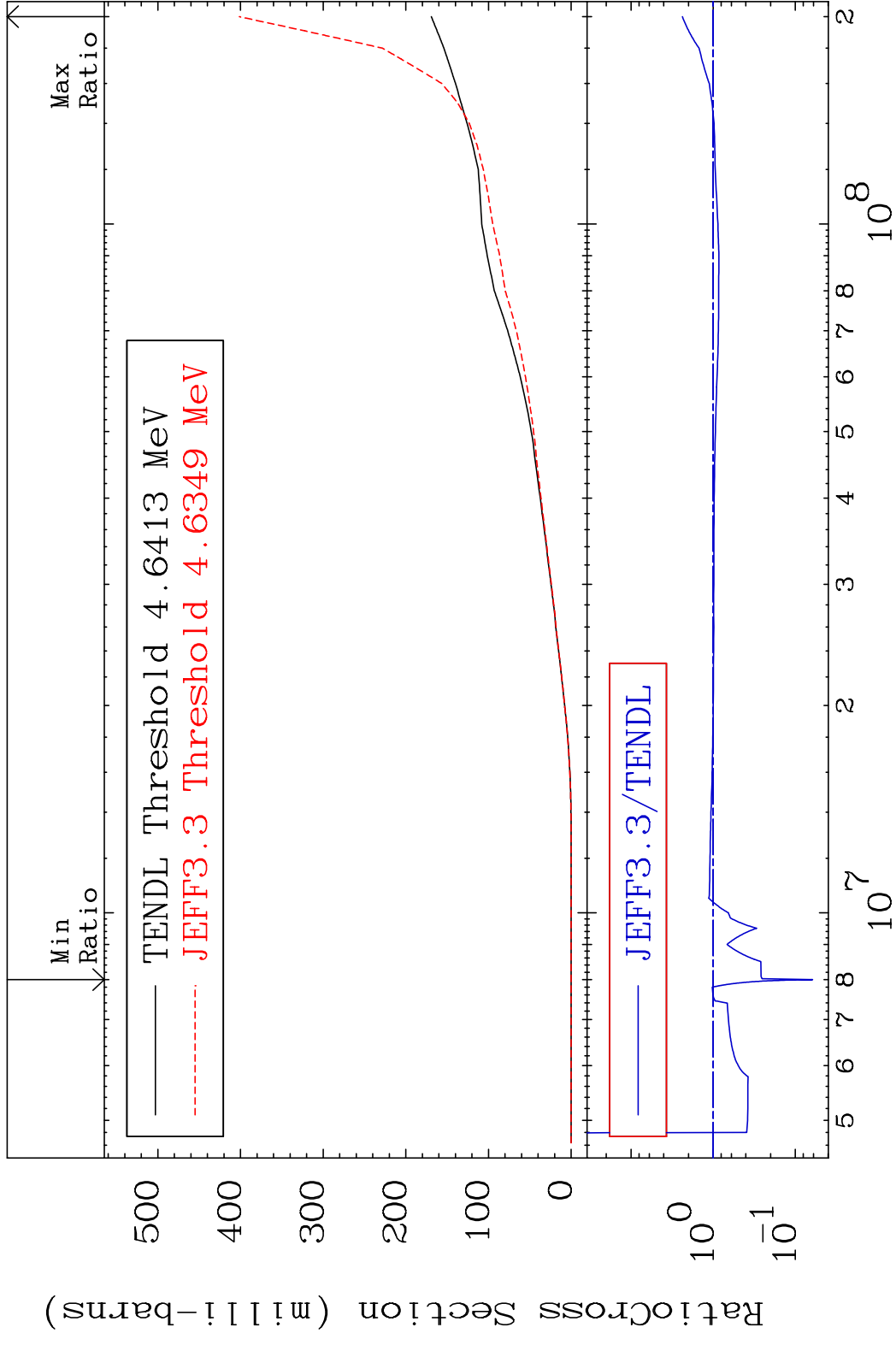


MAT 6034

Deuterium Production

60-Nd-145

Cross Section -93.82 To 137.3 %



63

Incident Energy (eV)

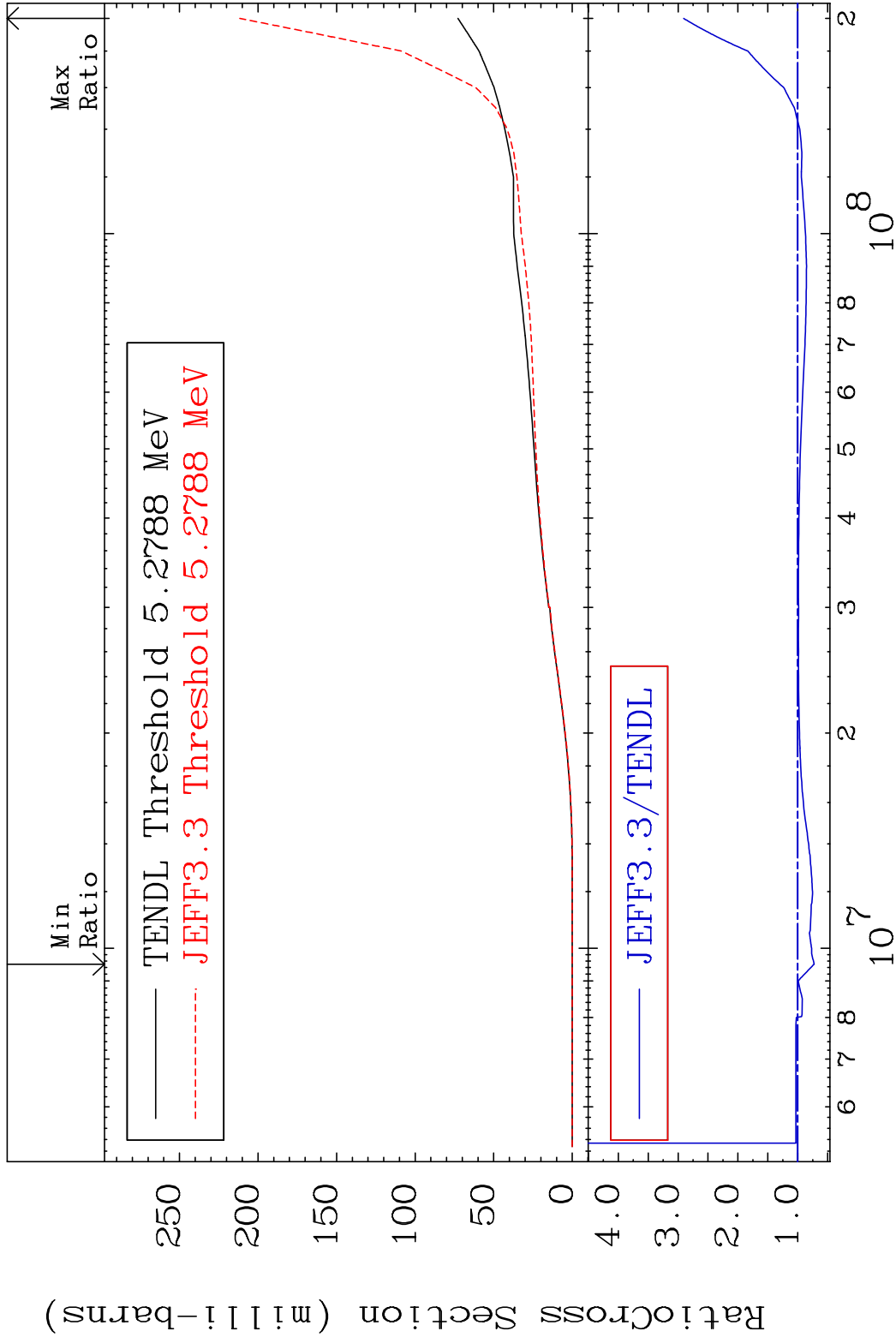
60-Nd-145

MAT 6034

Tritium Production

60-Nd-145

Cross Section -27.34 To 190.7 %



64

Incident Energy (eV)

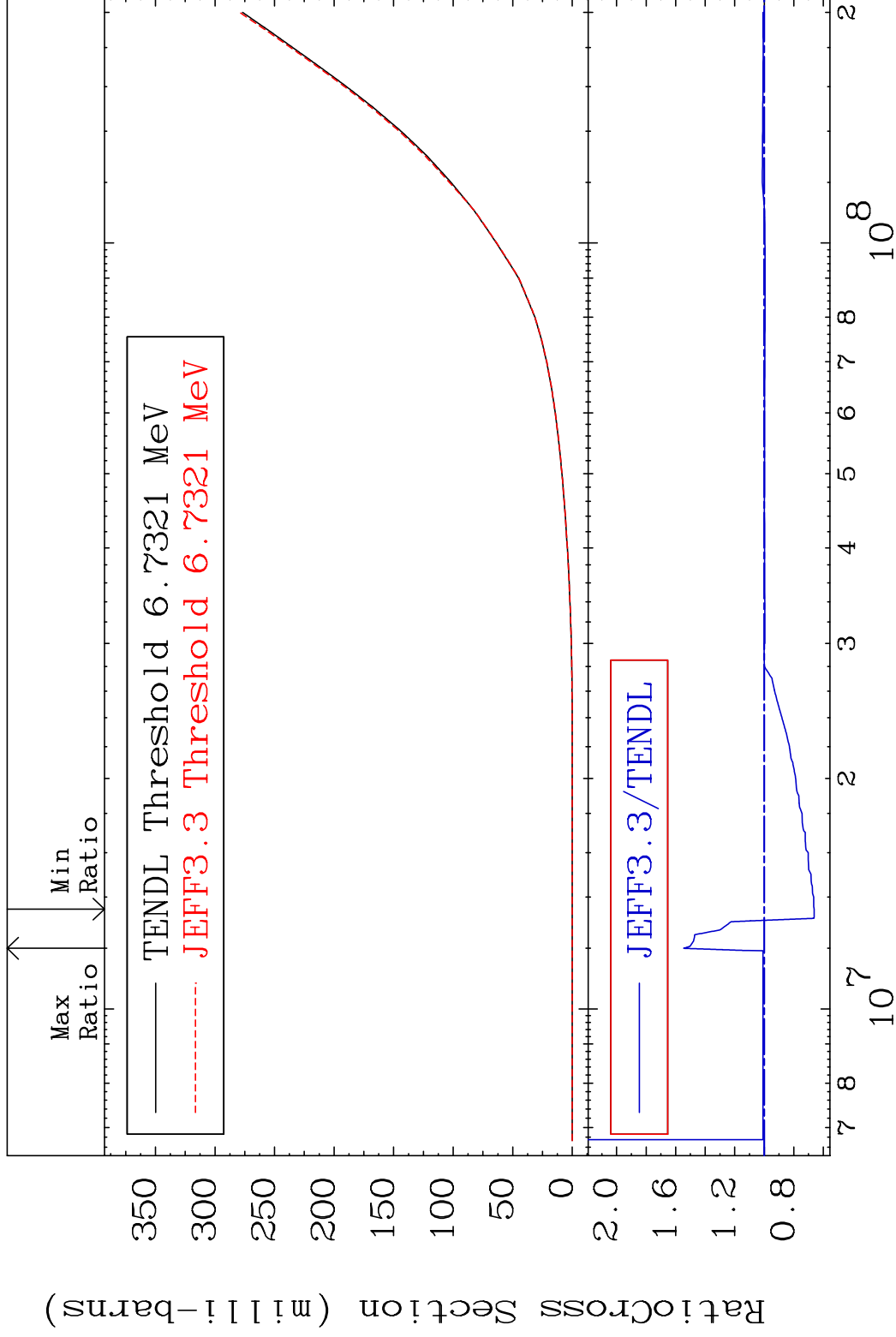
60-Nd-145

MAT 6034

He-3 Production

60-Nd-145

Cross Section -33.77 To 54.58 %



65

Incident Energy (eV)

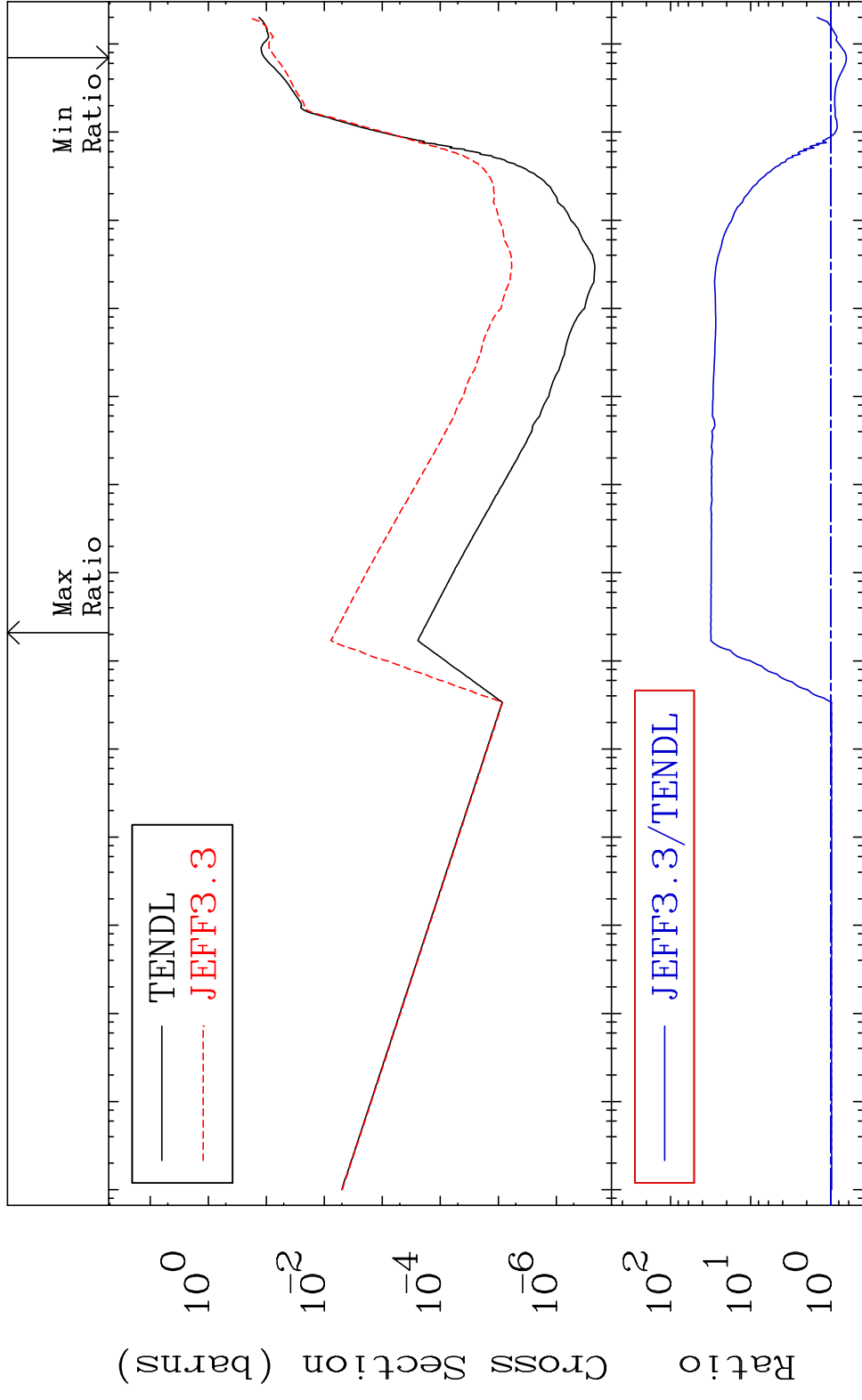
60-Nd-145

MAT 6034

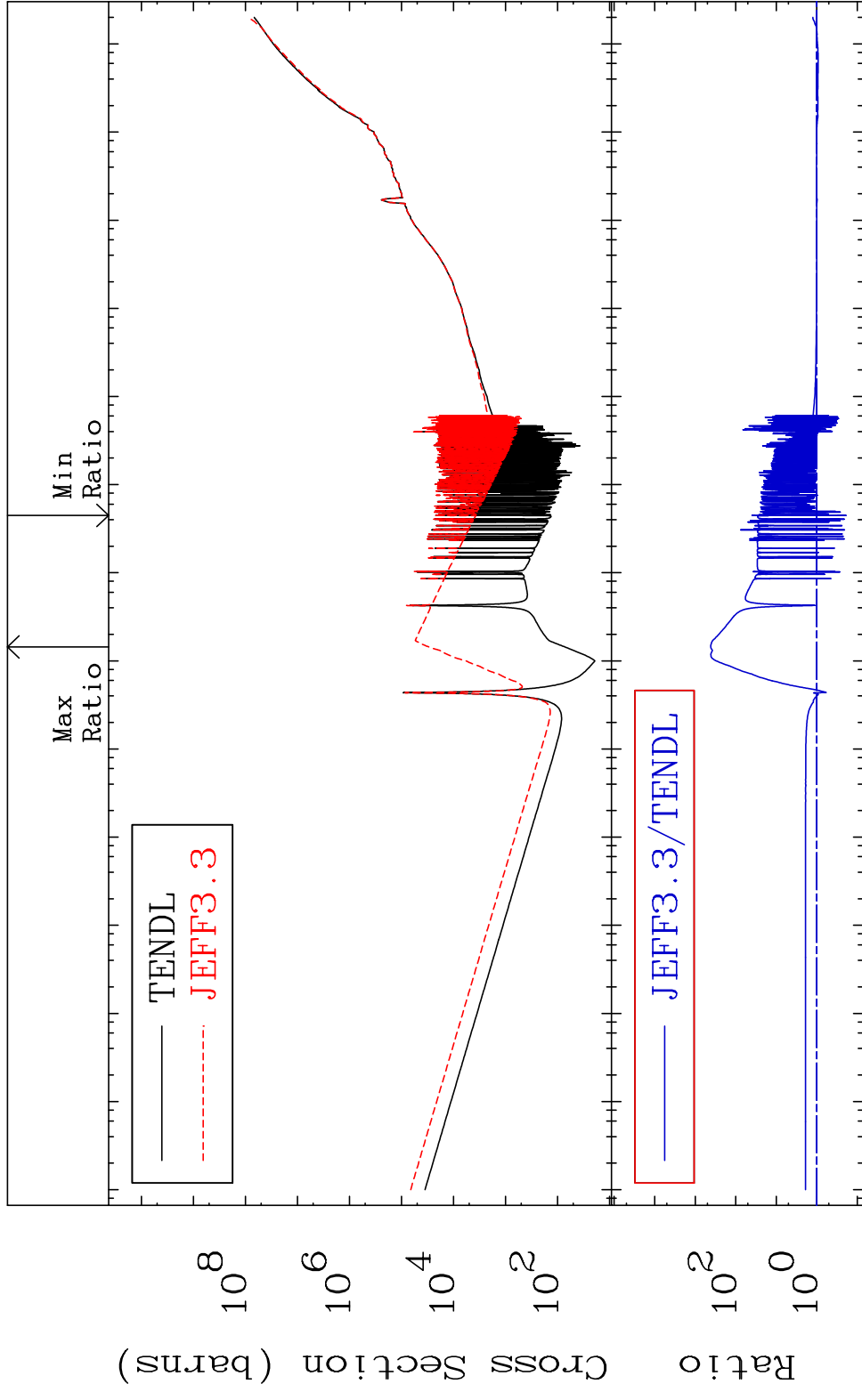
He-4 Production

60-Nd-145

Cross Section -35.80 To 3055. %



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

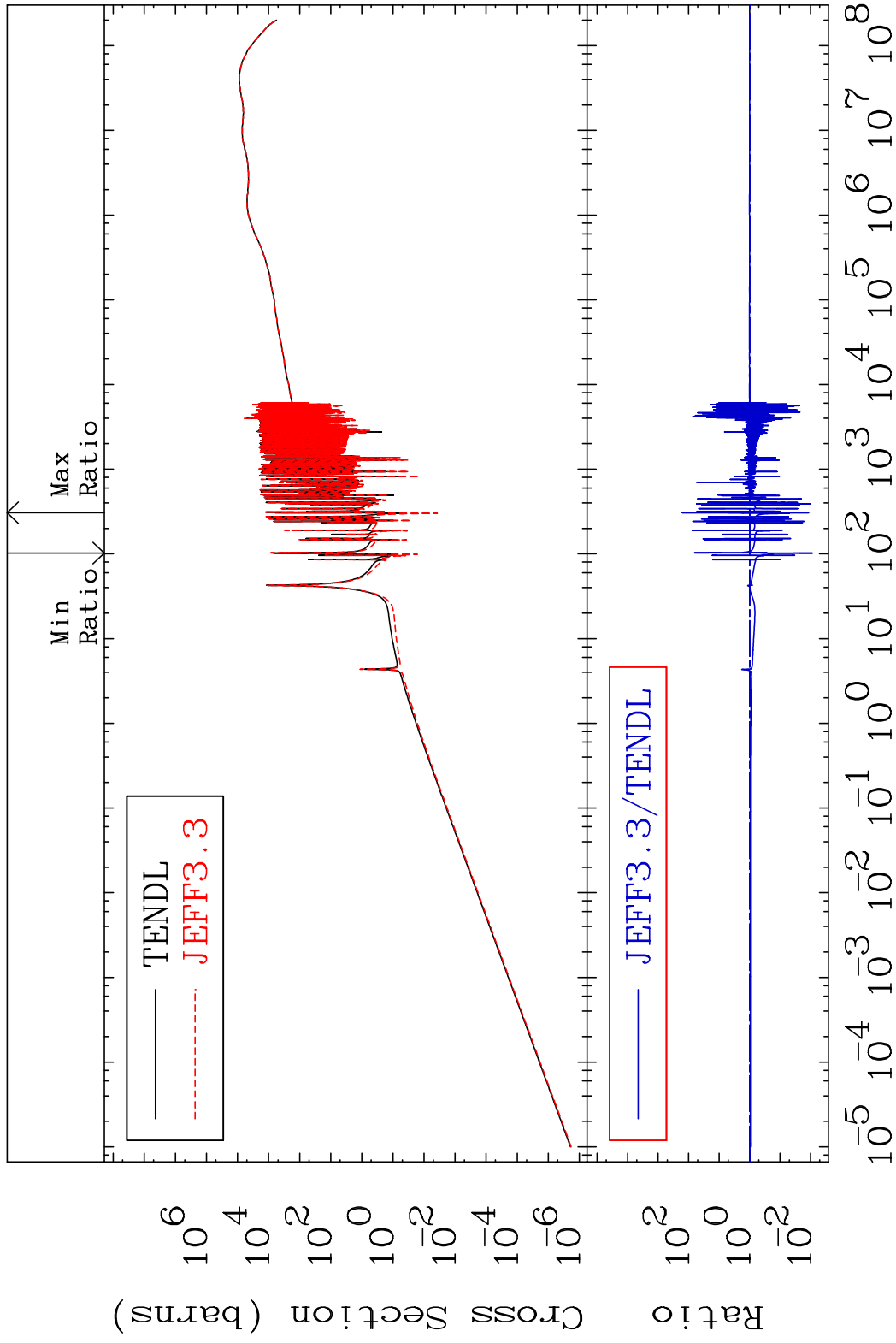


67 Incident Energy (eV) 60-Nd-145

MAT 6034

Kerma elastic
Cross Section

60-Nd-145
-99.14 To 9999. %

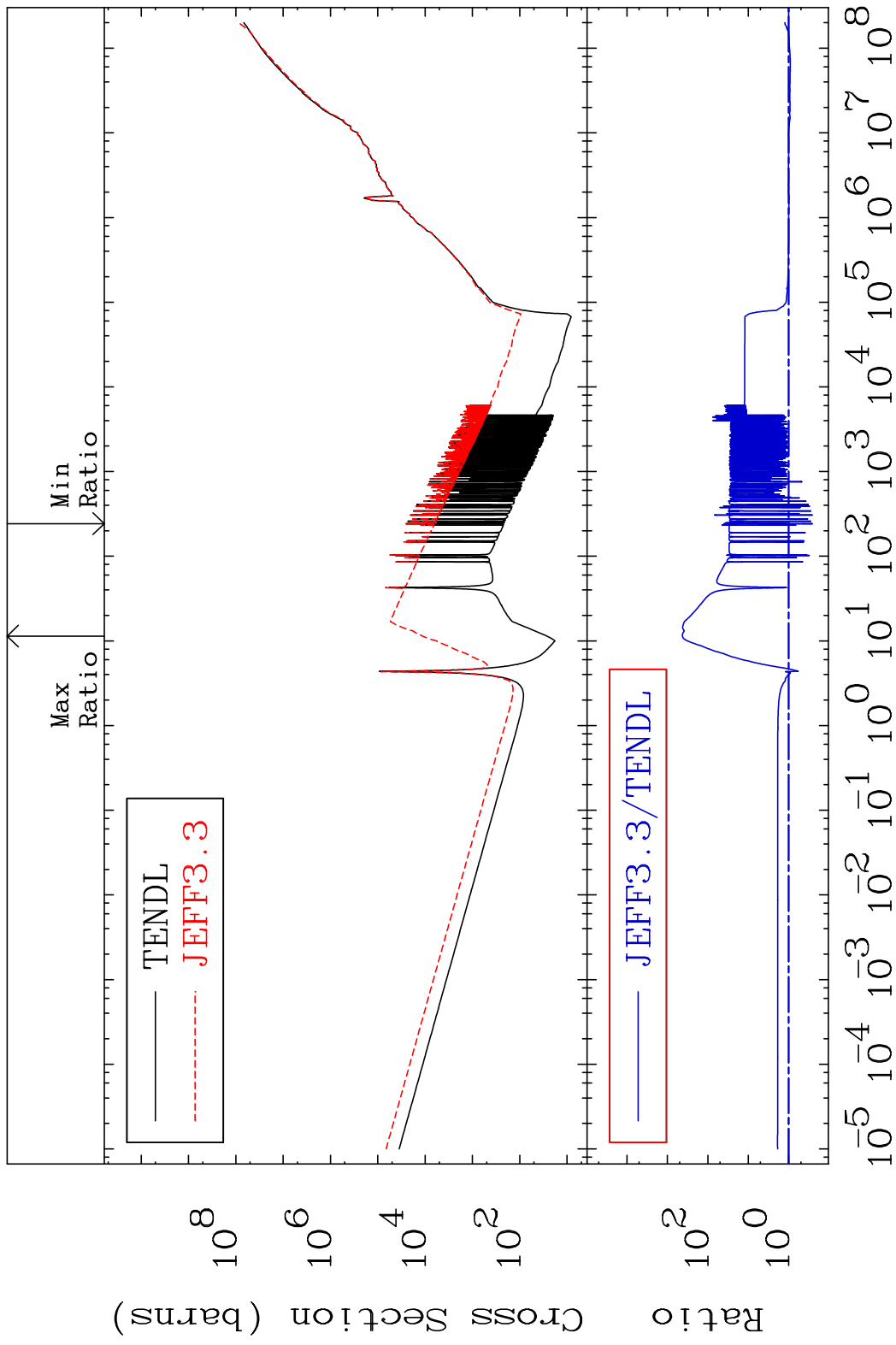


68

Incident Energy (eV)

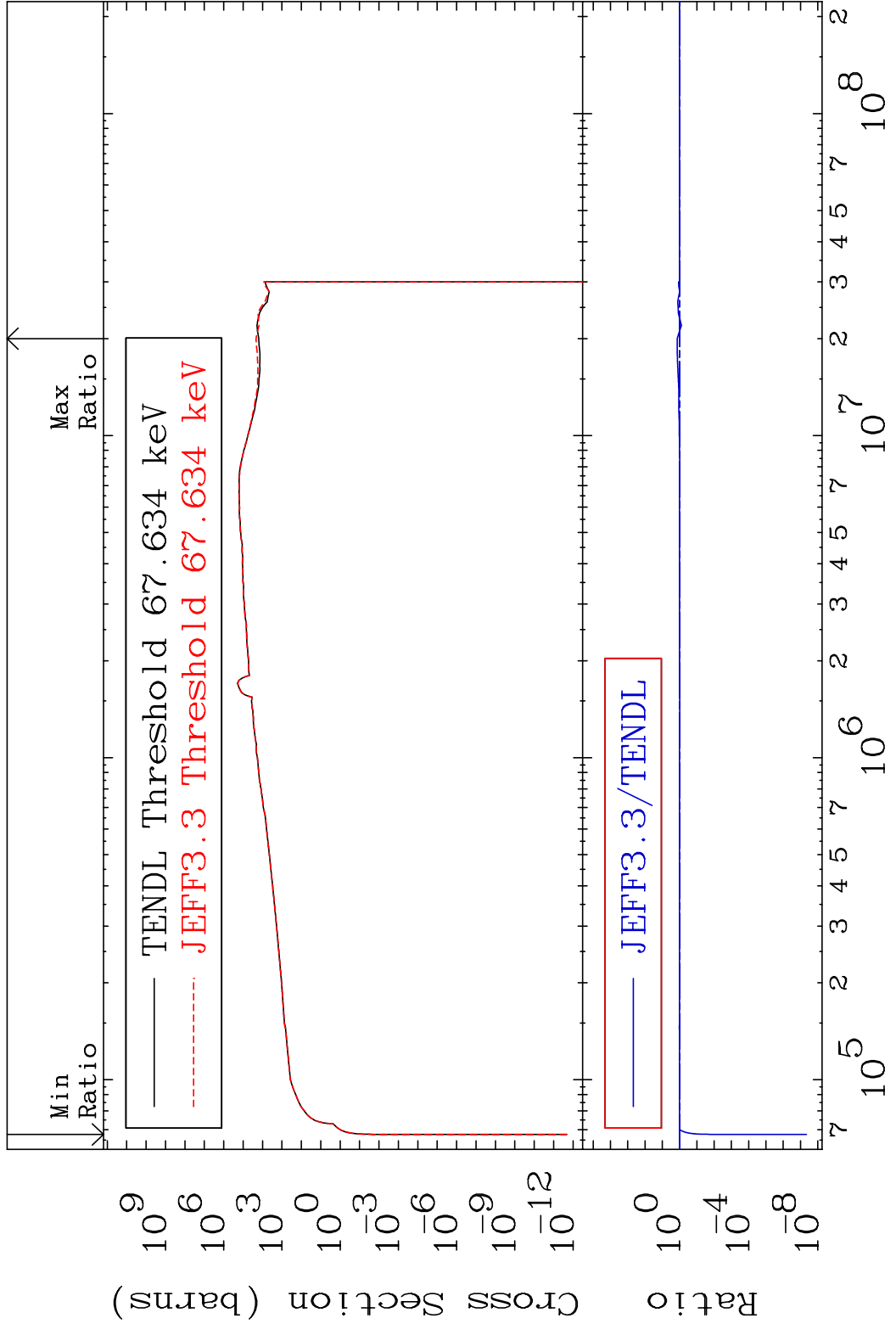
60-Nd-145

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



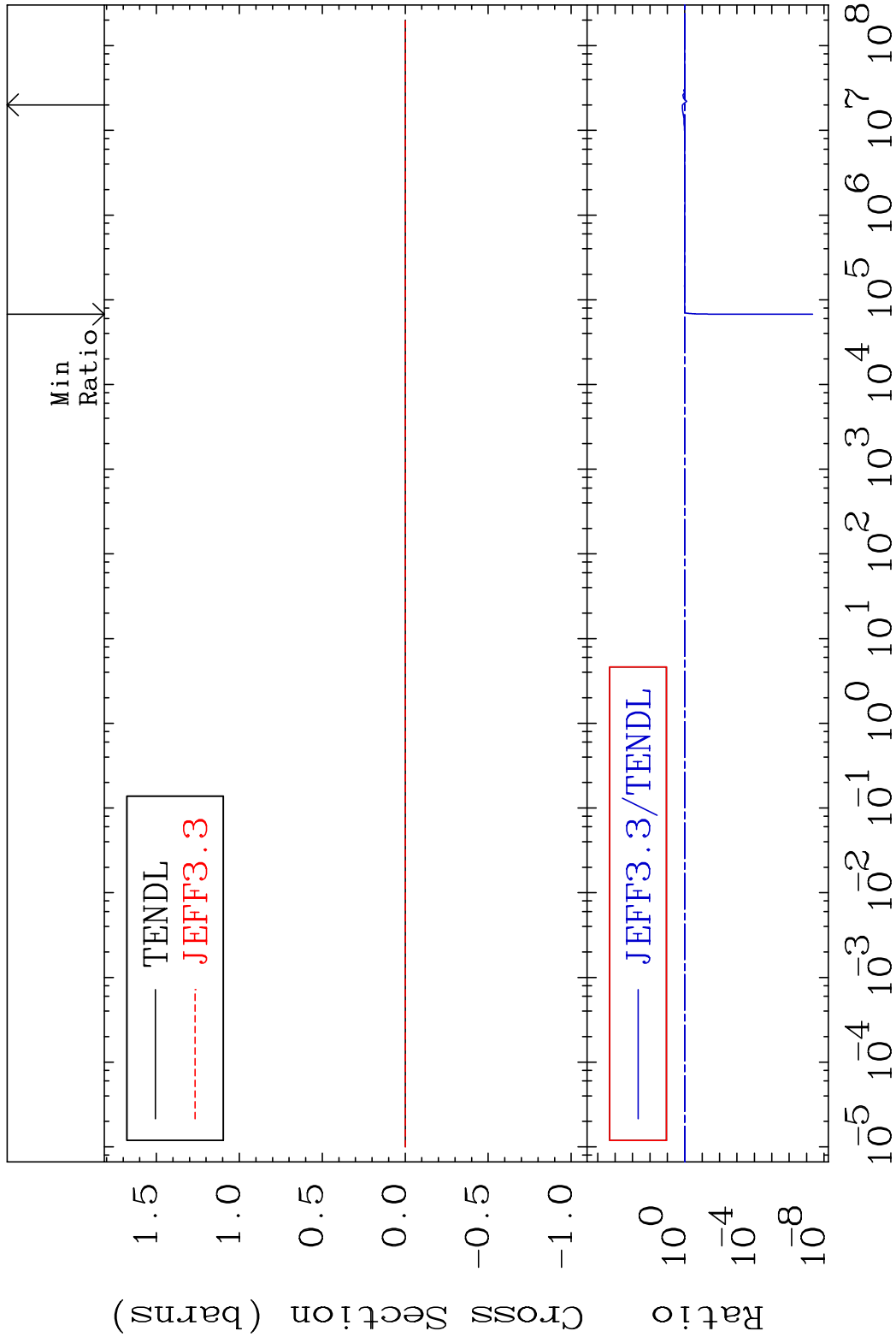
69 Incident Energy (eV) 60-Nd-145

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

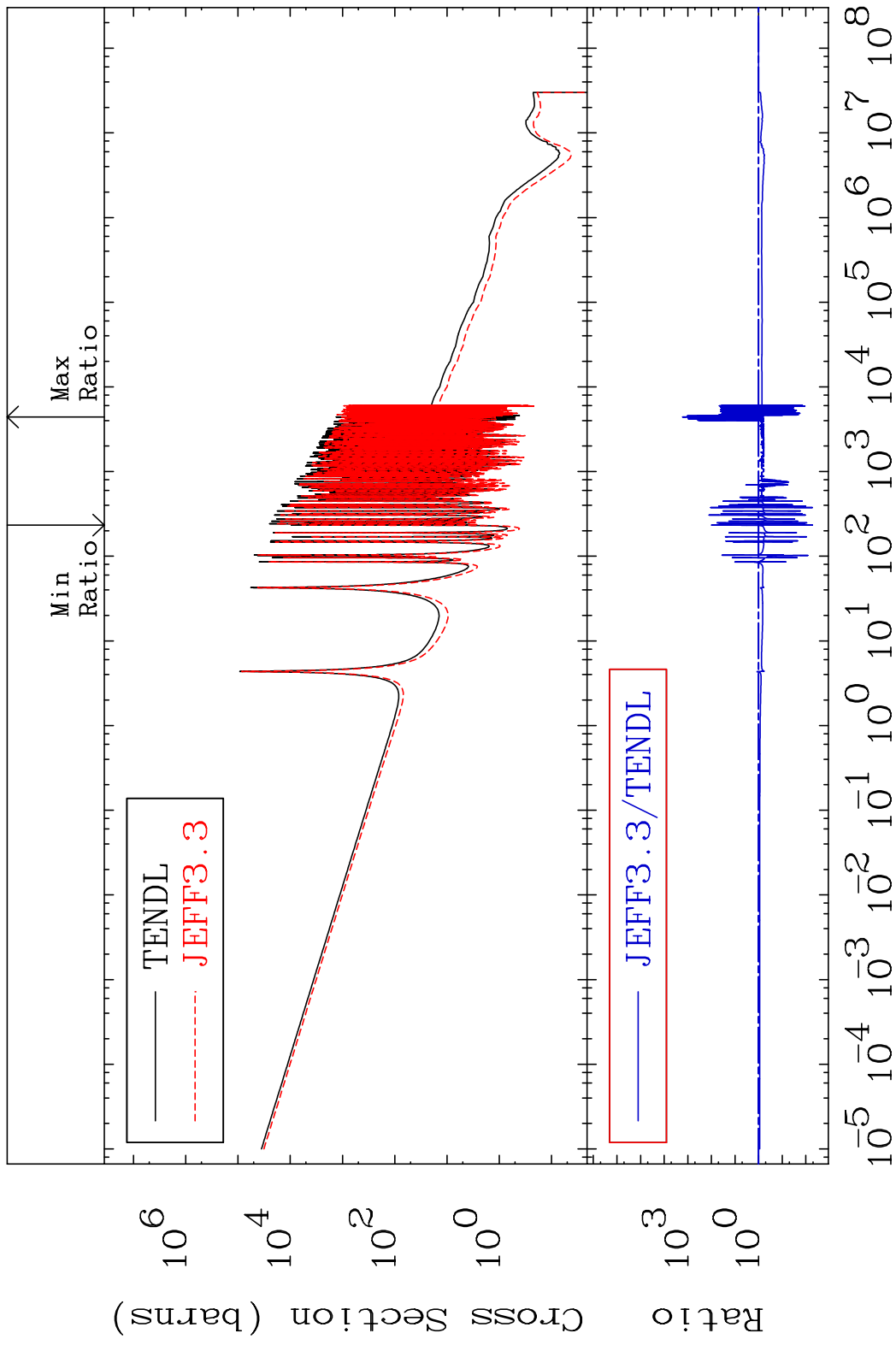


70 Incident Energy (eV) 60-Nd-145

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

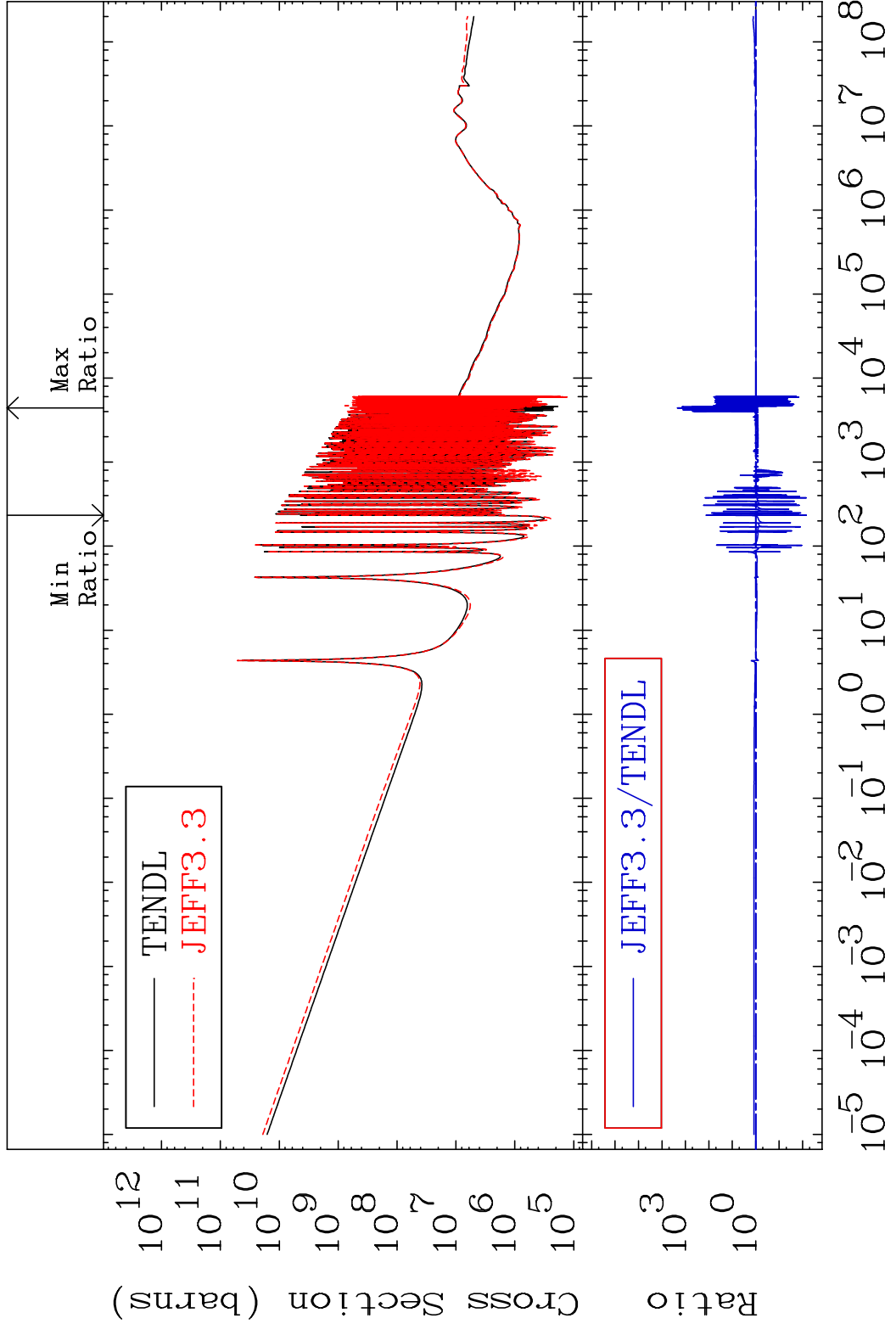


MAT 6034 Kerma capture (mt102) 60-Nd-145
 Cross Section -99.48 To 9999. %



MAT 6034

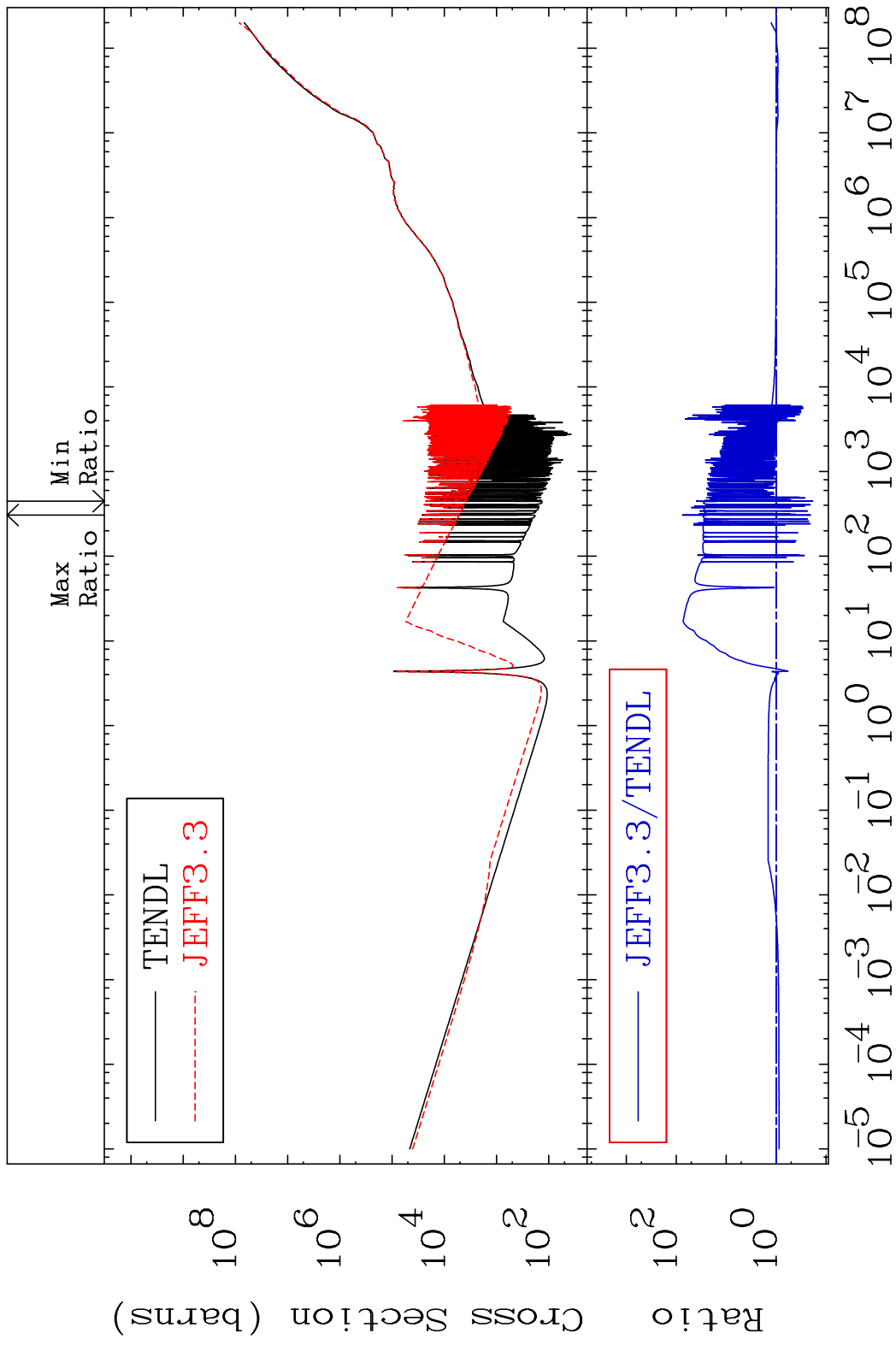
Total photon (eV-barns) 60-Nd-145
Cross Section -99.31 To 9999. %



73

Incident Energy (eV) 60-Nd-145

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

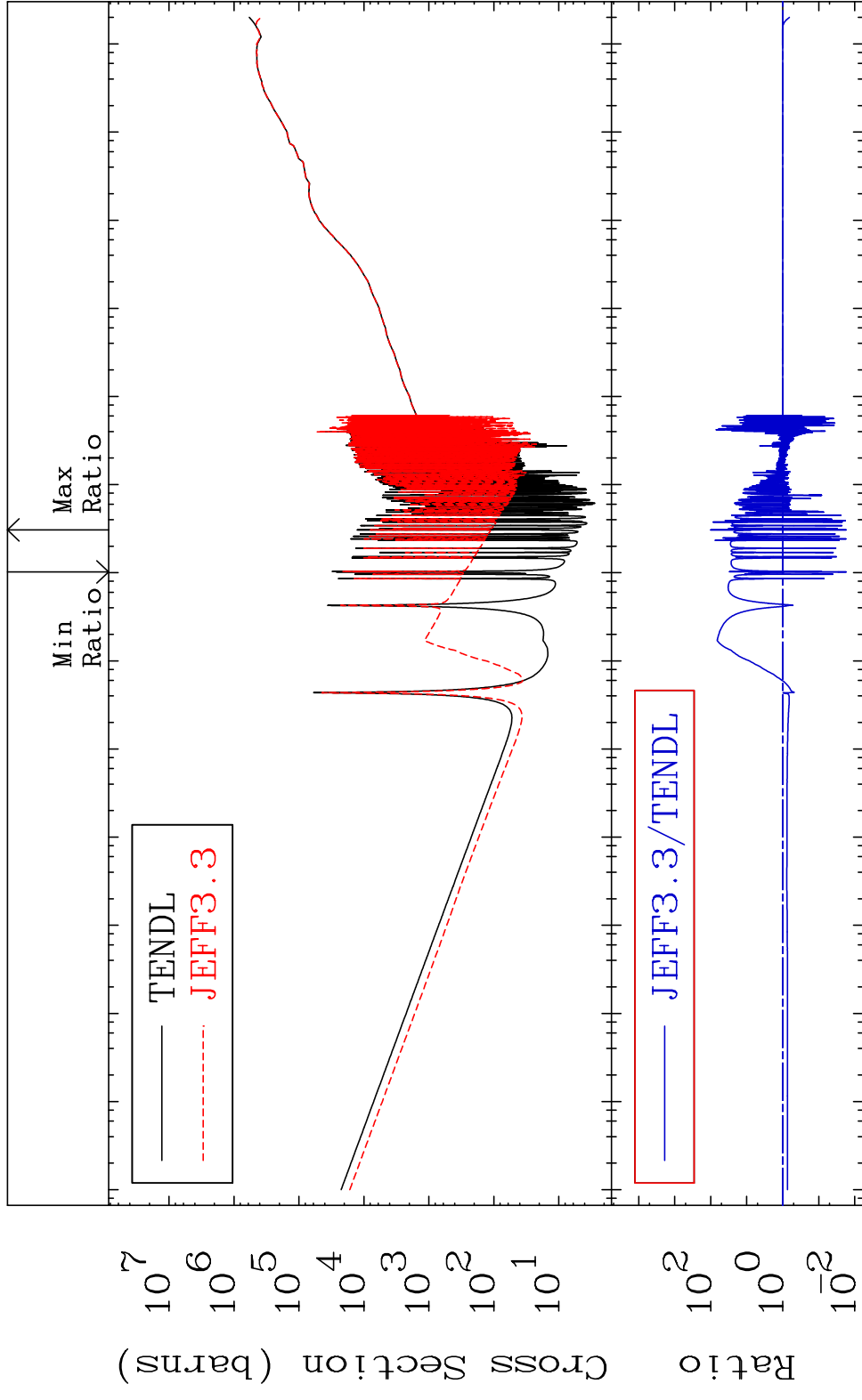


MAT 6034

Dpa total (eV-barns)

60-Nd-145

Cross Section -98.29 To 9901. %



75

Incident Energy (eV)

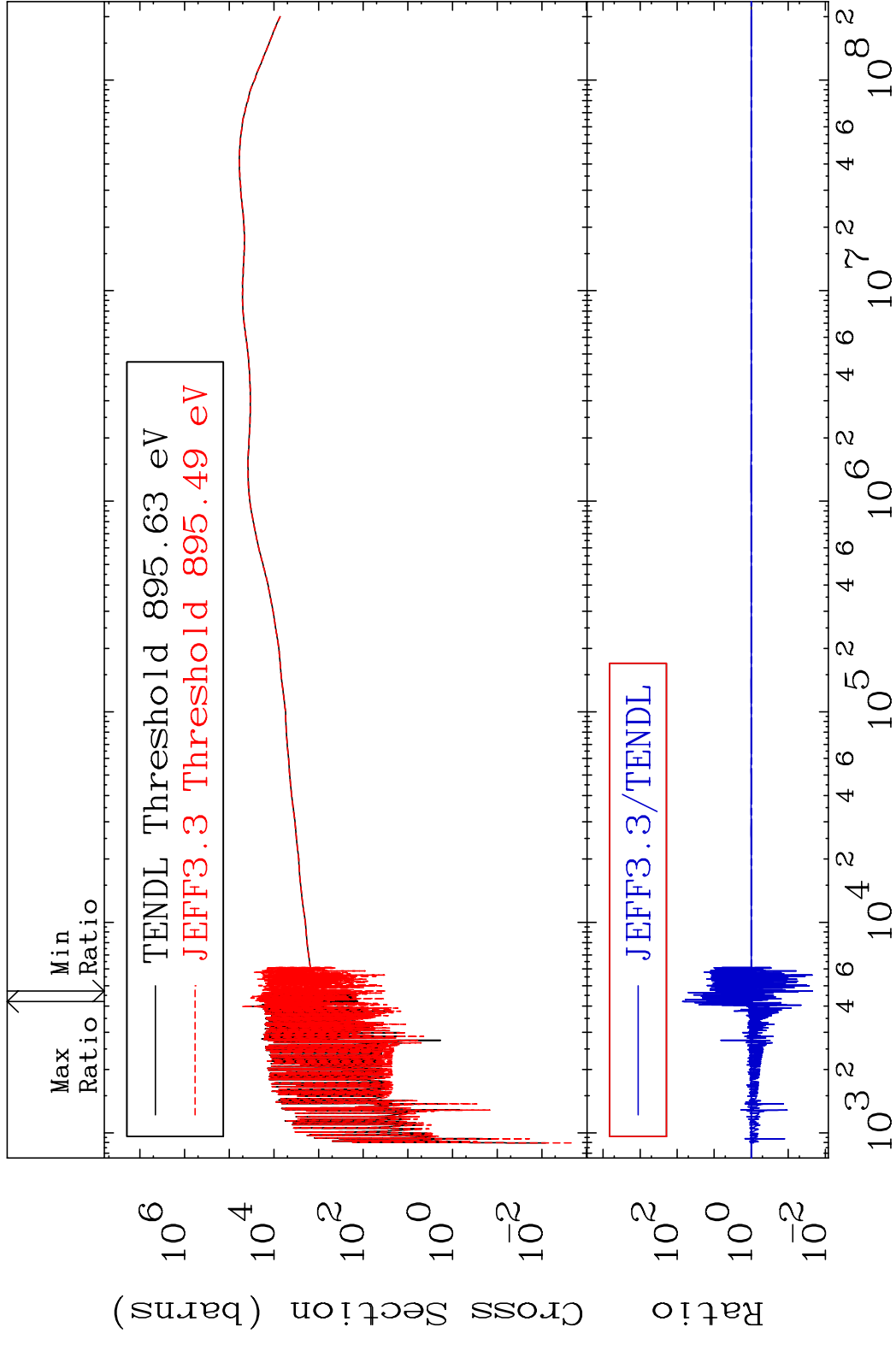
60-Nd-145

MAT 6034

Dpa elastic (mt2)

60-Nd-145

Cross Section -97.80 To 7135. %

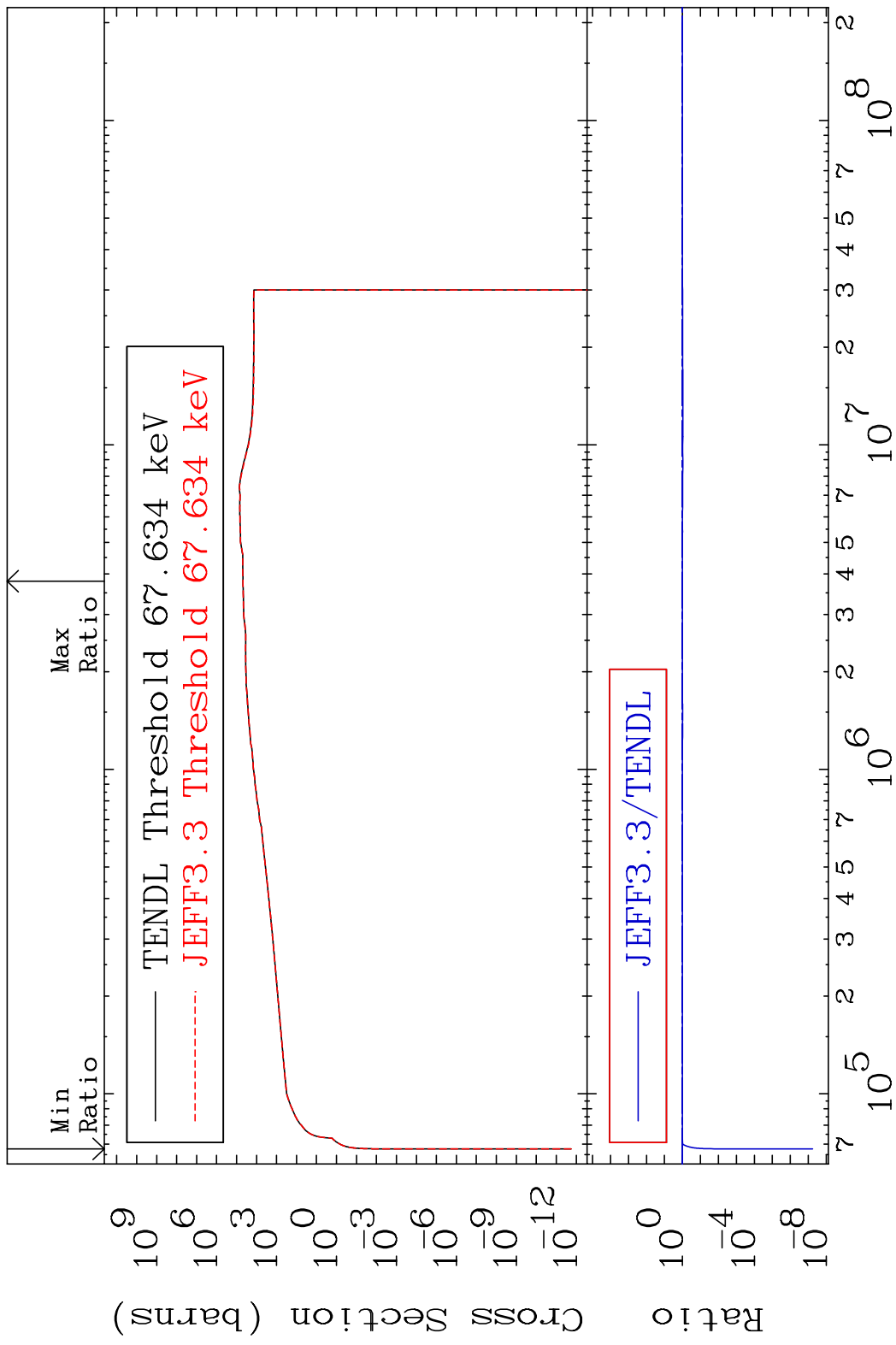


76

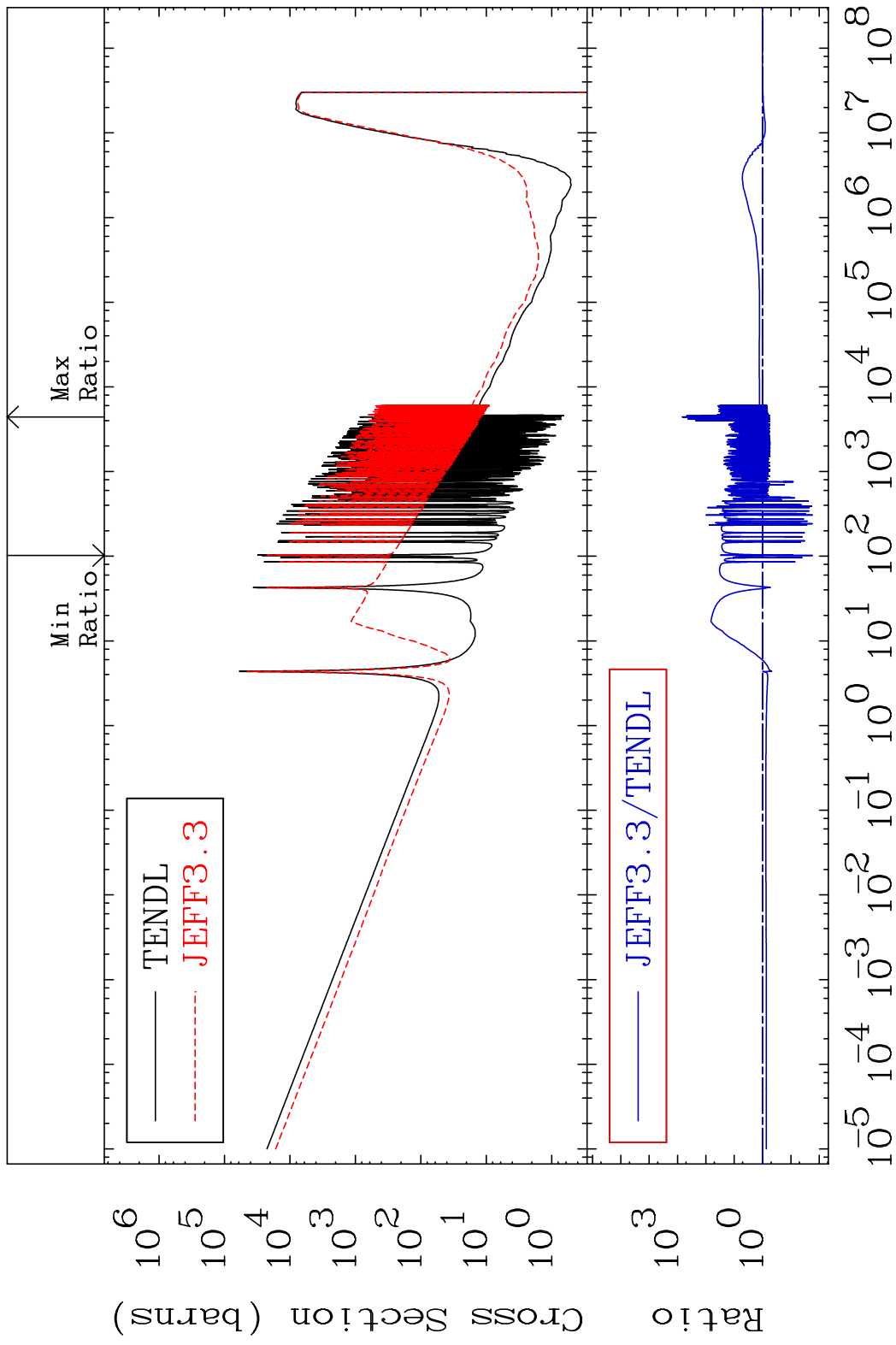
Incident Energy (eV)

60-Nd-145

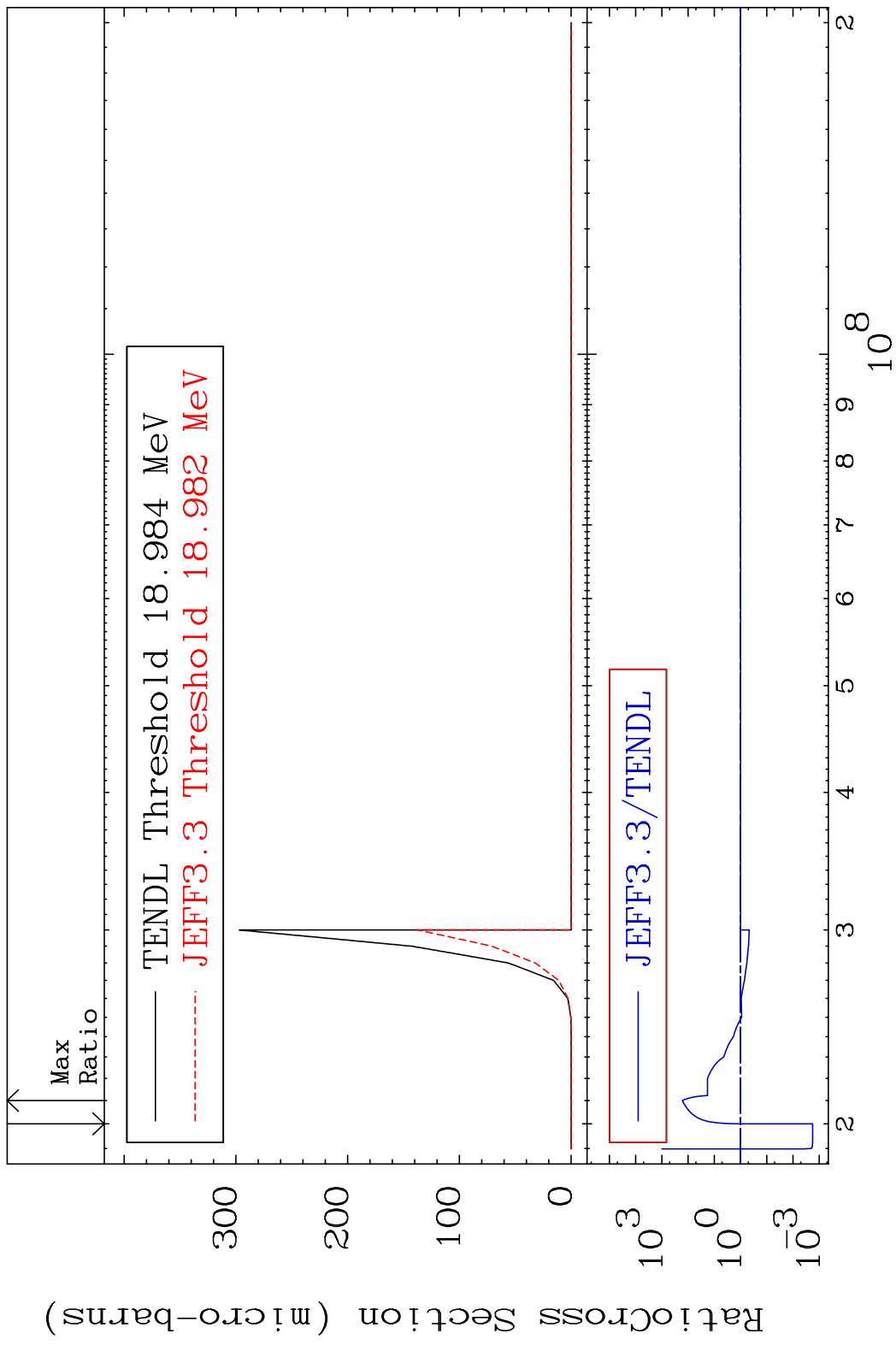
MAT 6034 Dpa inelastic (mt51-91) 60-Nd-145
 Cross Section -100.0 To 1.274 %

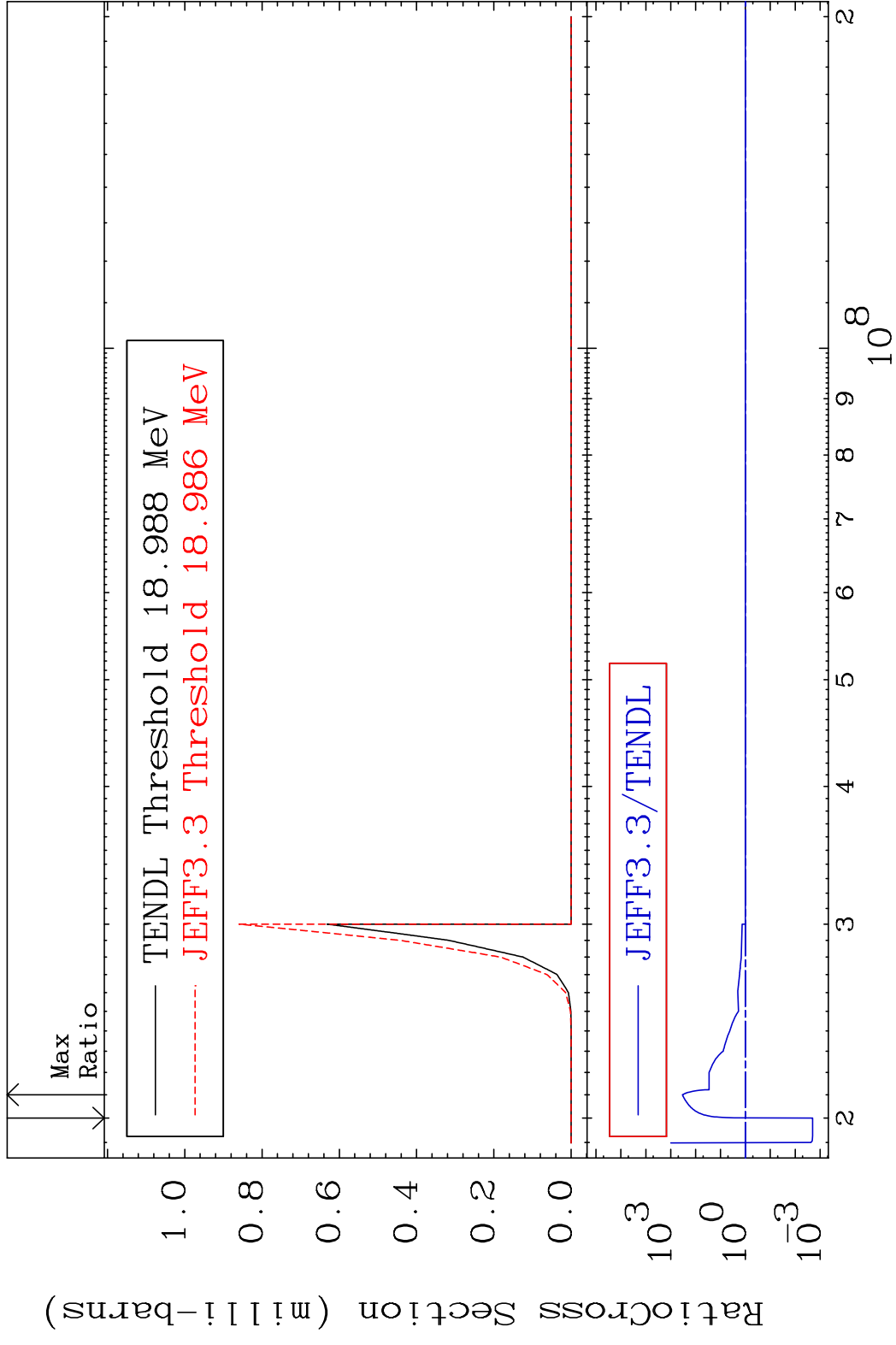


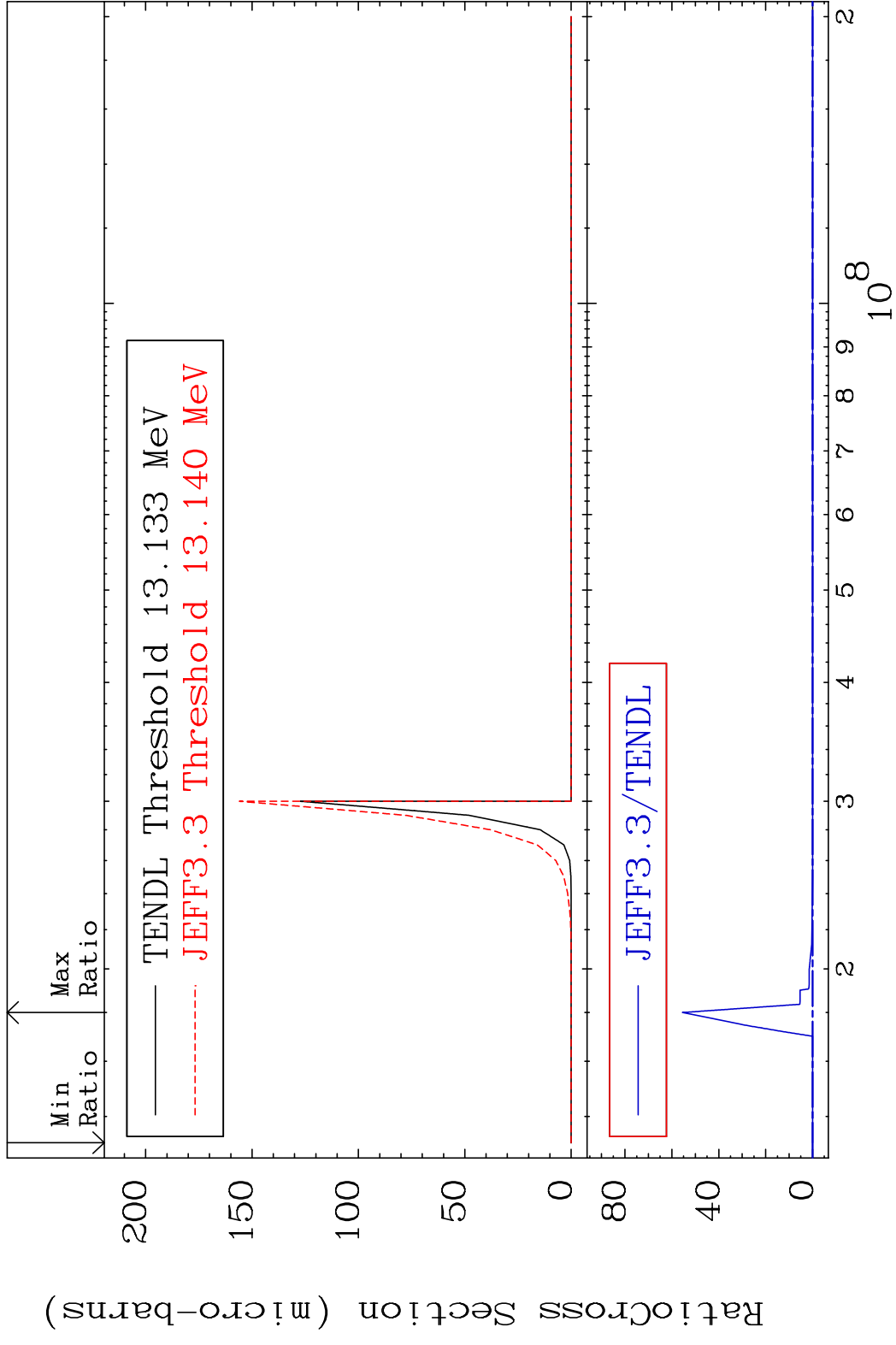
MAT 6034 Dpa disappearance (mt102 -120) 60-Nd-145
 Cross Section -98.29 To 9999. %



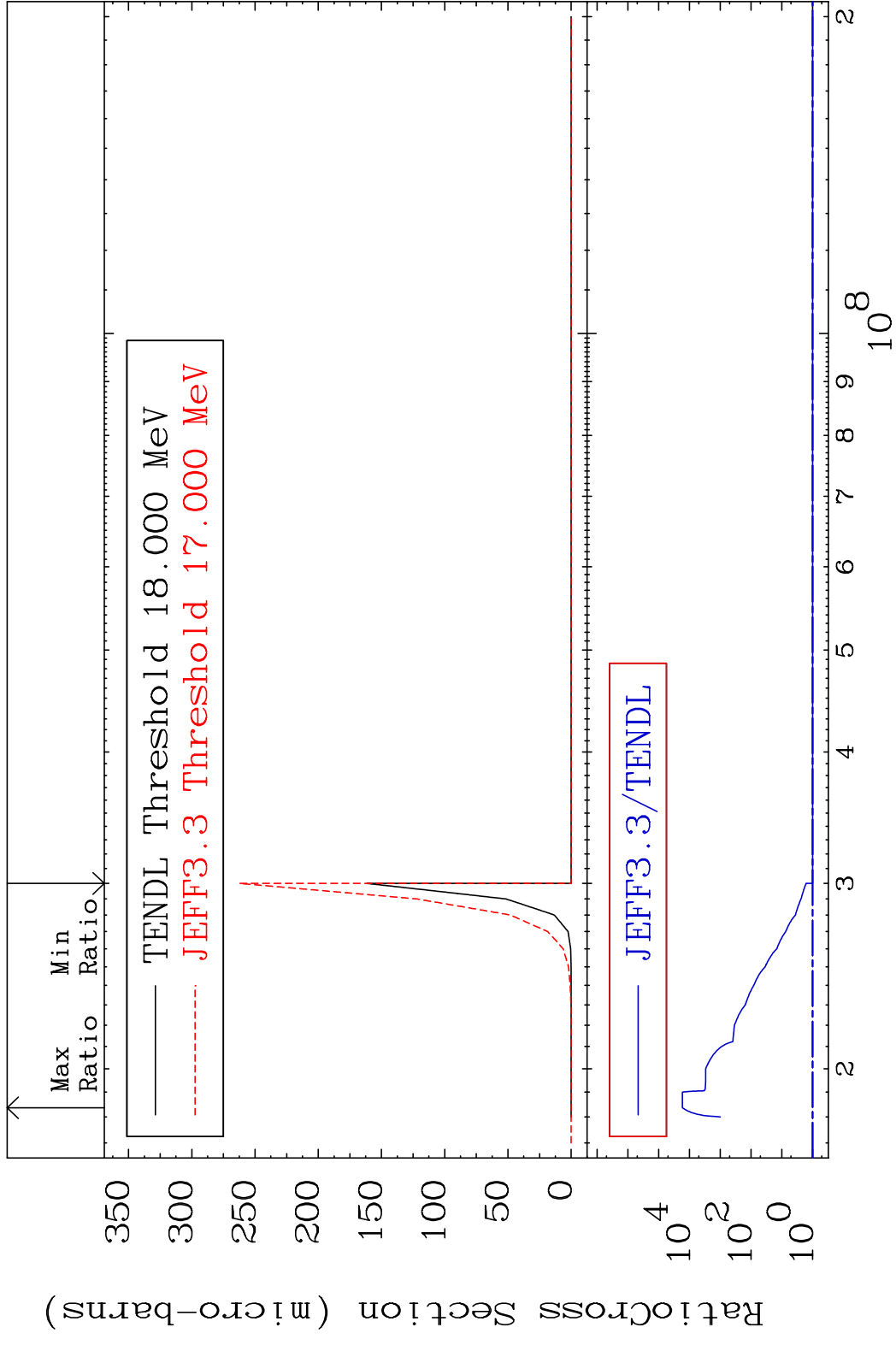
MAT 6034 (n,2n) d:59-Pr-142g 60-Nd-145
 Radionuclide Production Cross Section 99.82 dth 9999. %



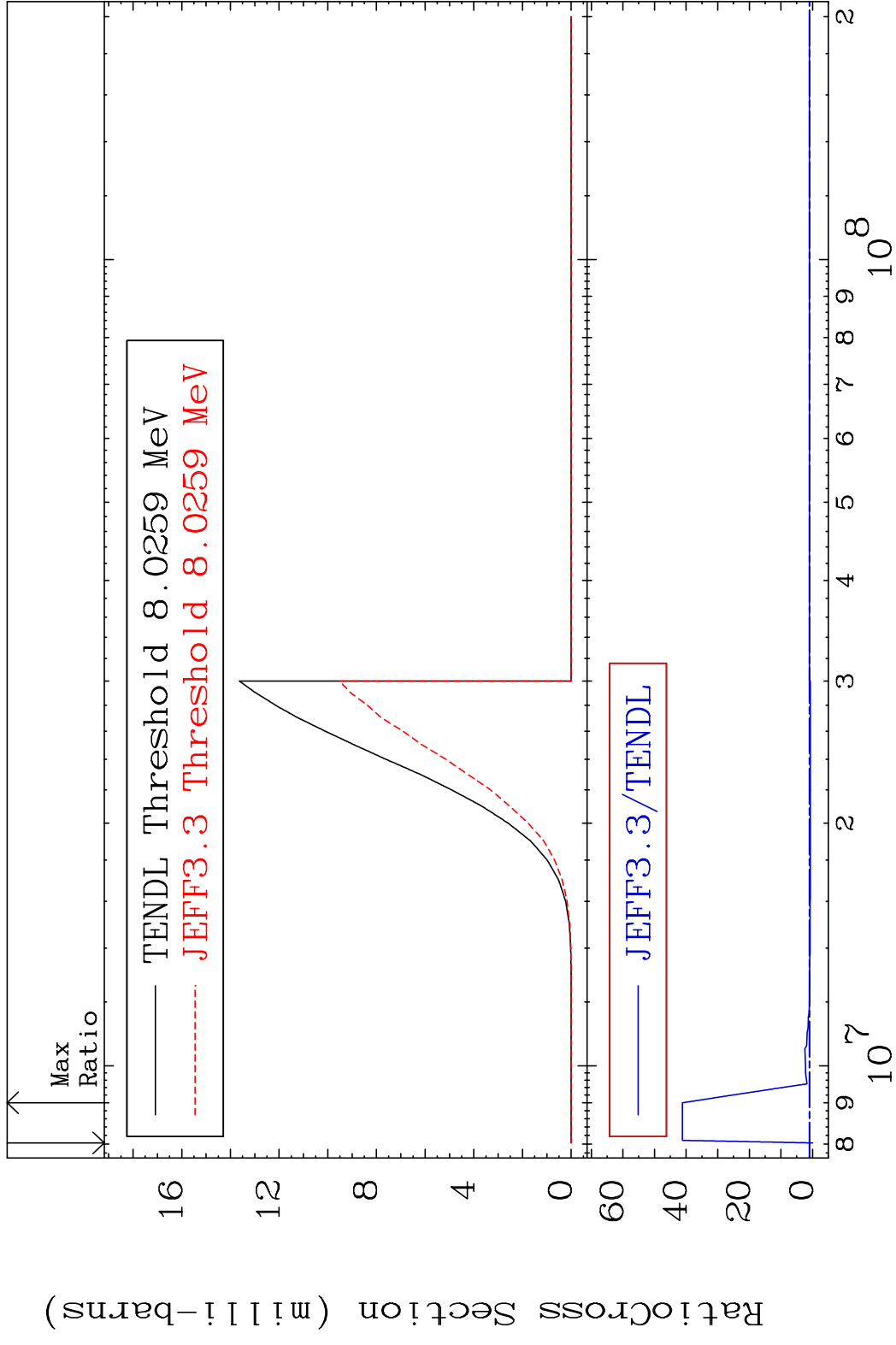


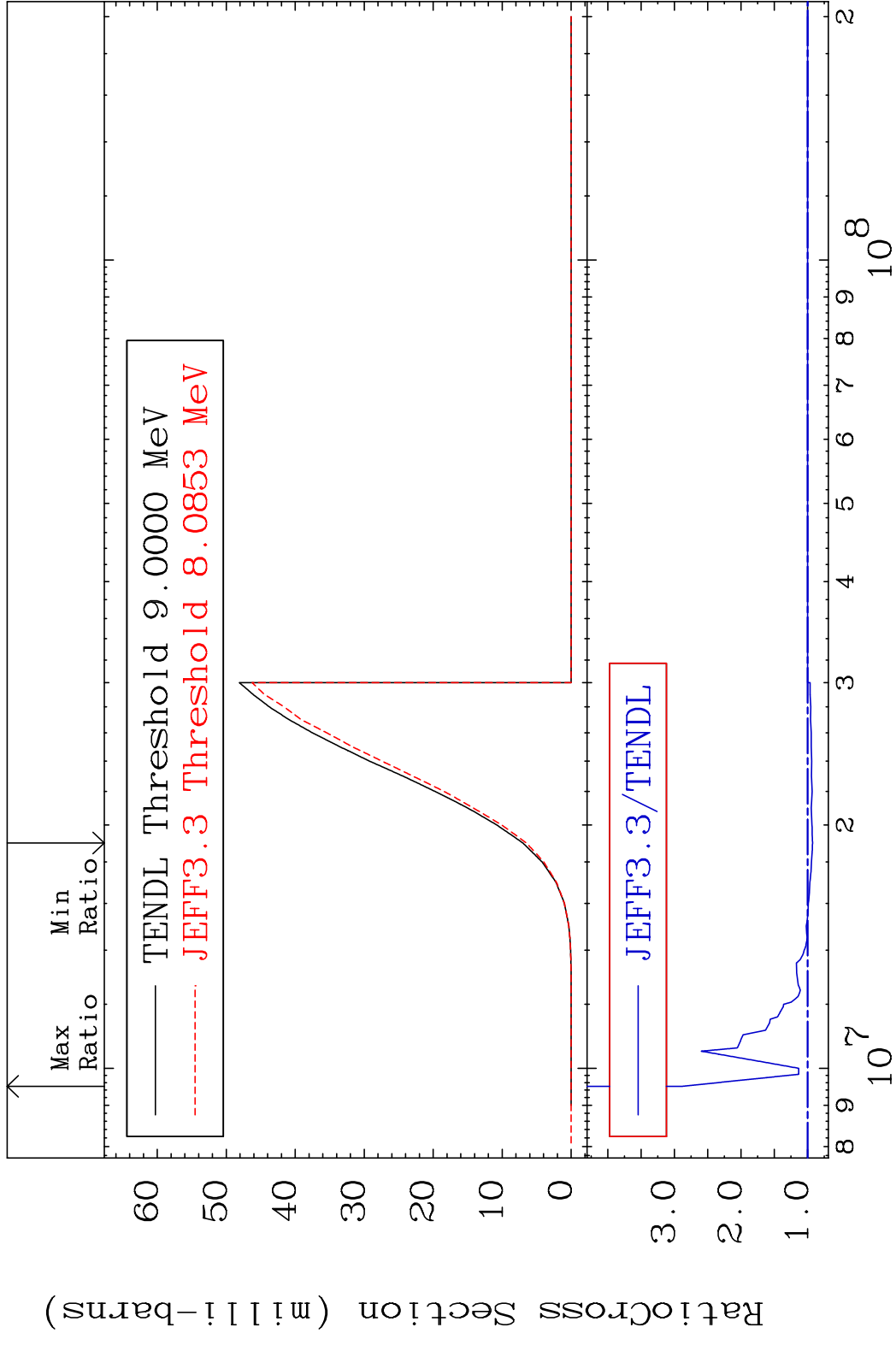


MAT 6034 (n,3n) α :58-Ce-139m2 60-Nd-145
 Radionuclide Production Cross Section 9999. %

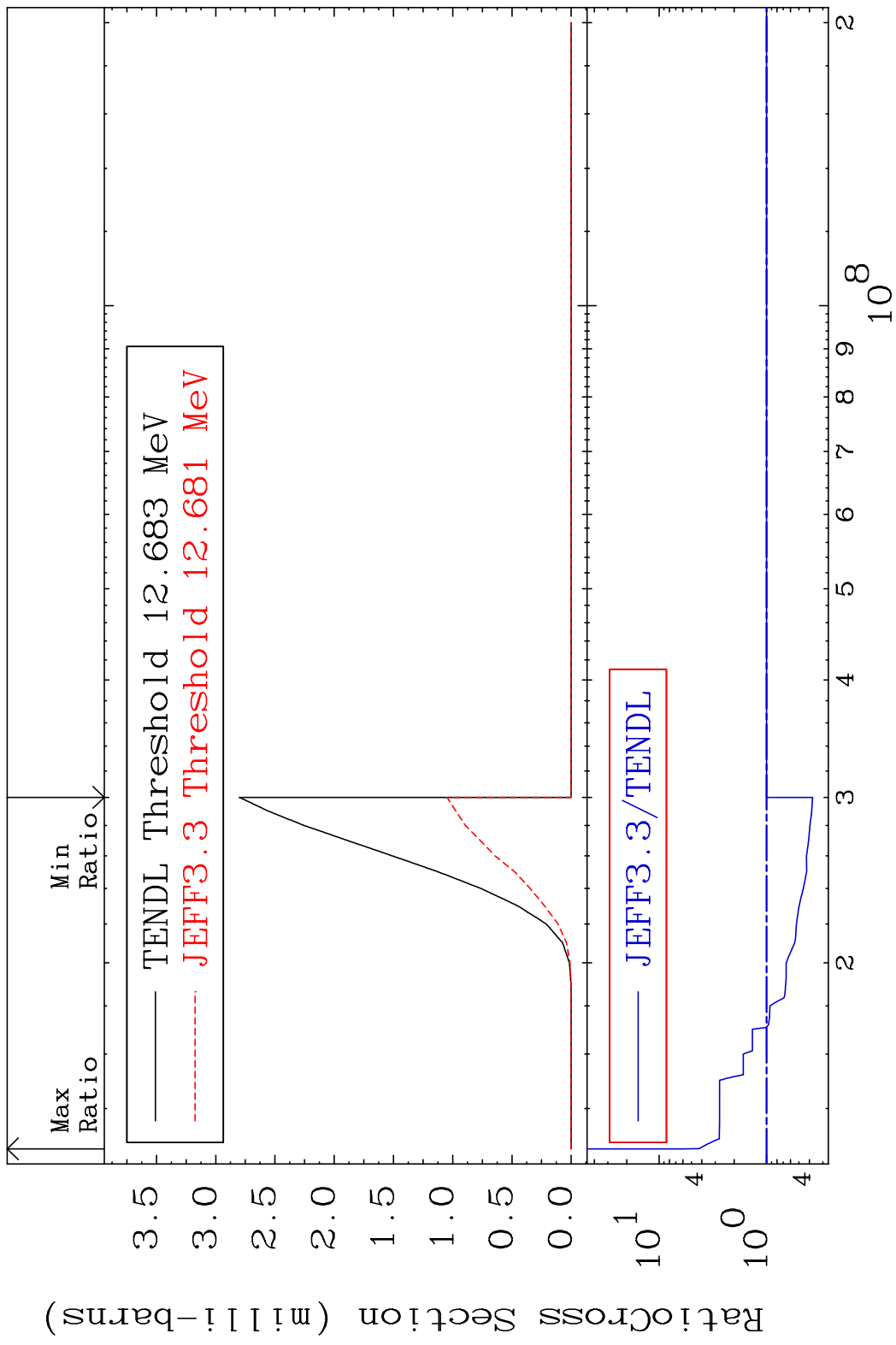


MAT 6034 (n, n') p:59-Pr-144g 60-Nd-145
 Radionuclide Production Cross Section 1800 d to 4019. %

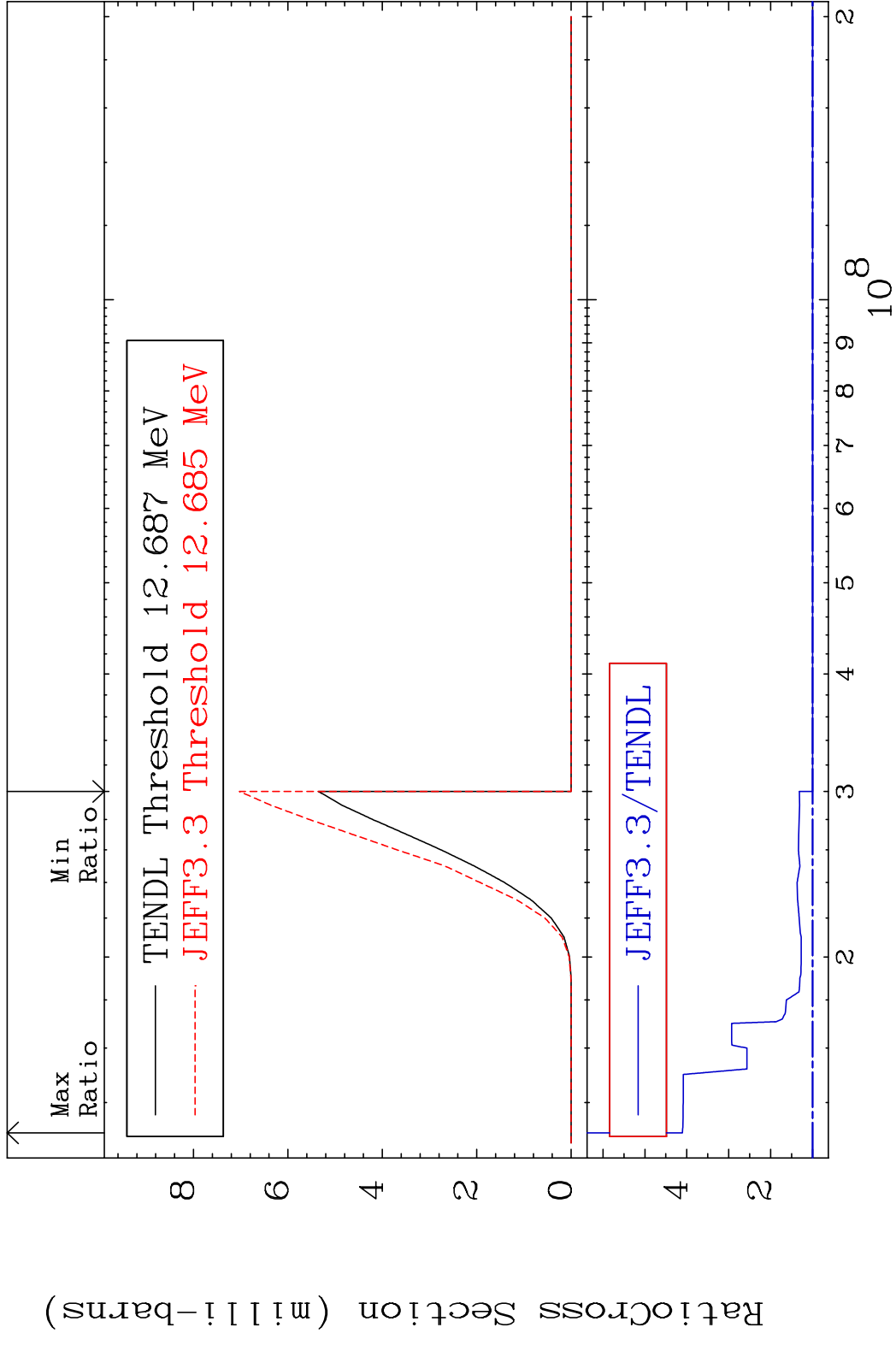




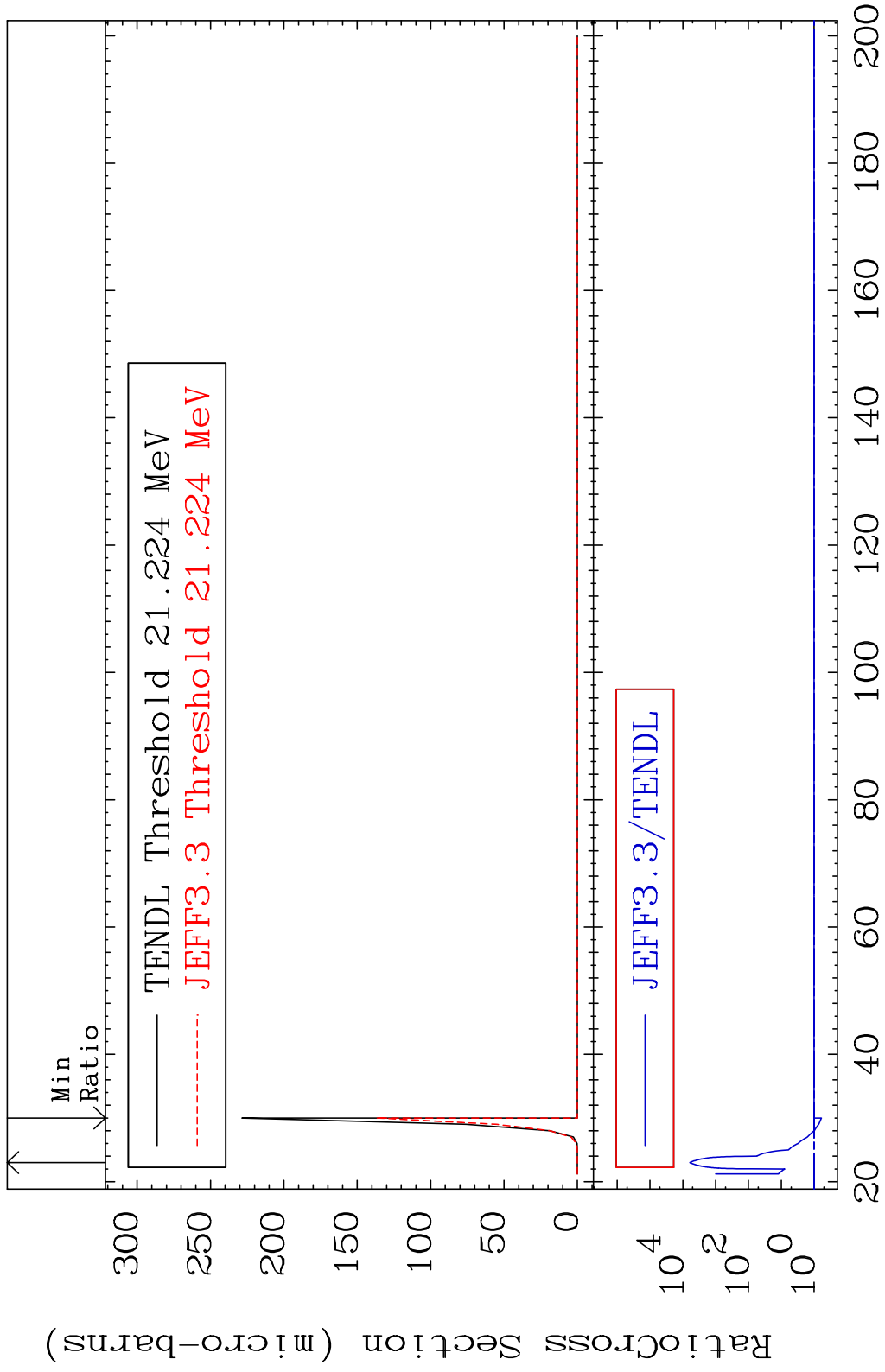
MAT 6034 (n, n') t:59-Pr-142g 60-Nd-145
 Radionuclide Production Cross Section 62.61 dth 507.5 %

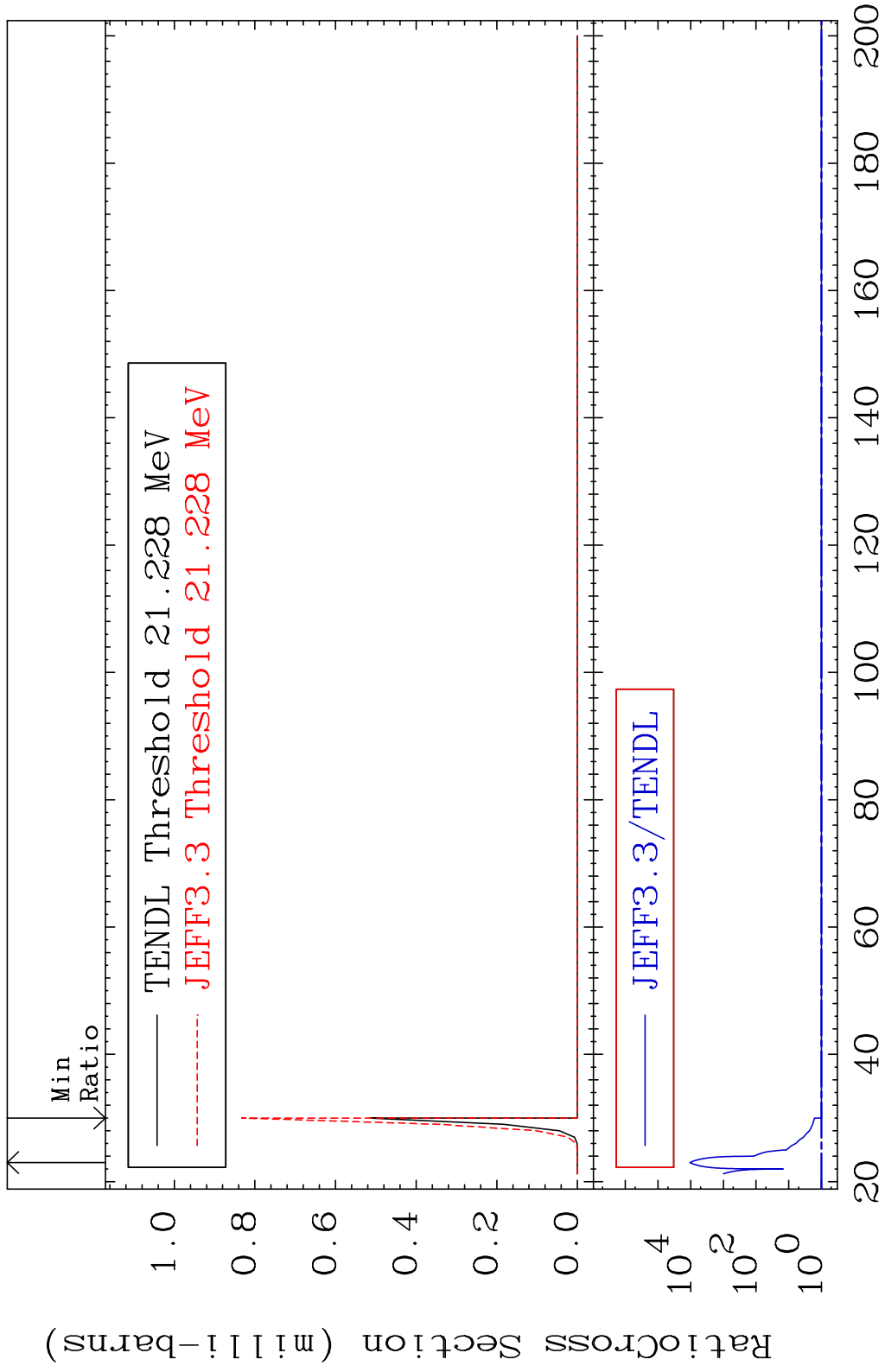


MAT 6034 (n, n') t:59-Pr-142m1 60-Nd-145
 Radionuclide Production Cross Section 310.6 %

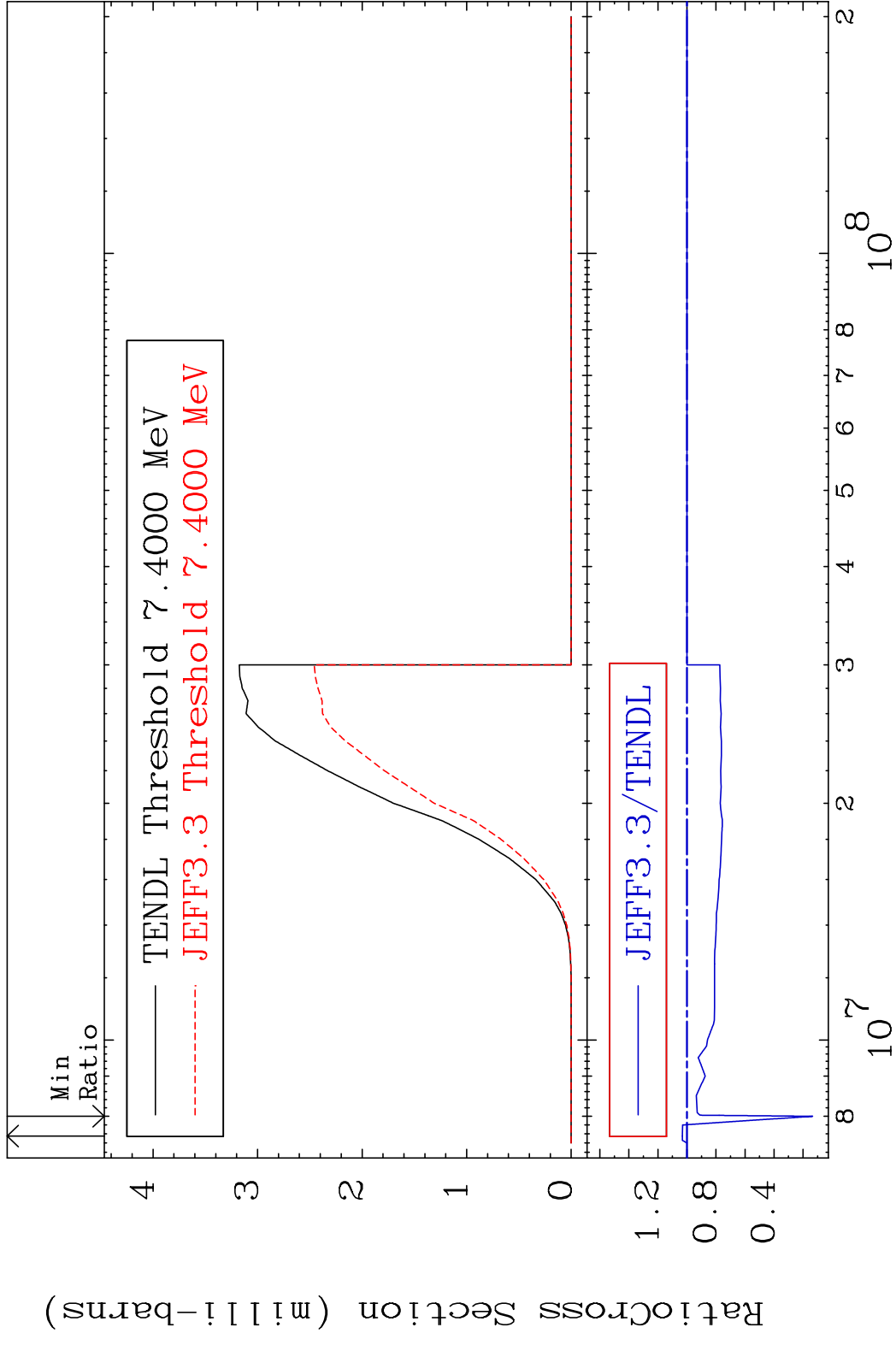


MAT 6034 (n,3n) p:59-Pr-142g 60-Nd-145
 Radionuclide Production Cross Section to 9999. %





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



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

