

Program Complot
(Version 2021-1)

by

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(Present Contact Information)

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U.S.A.

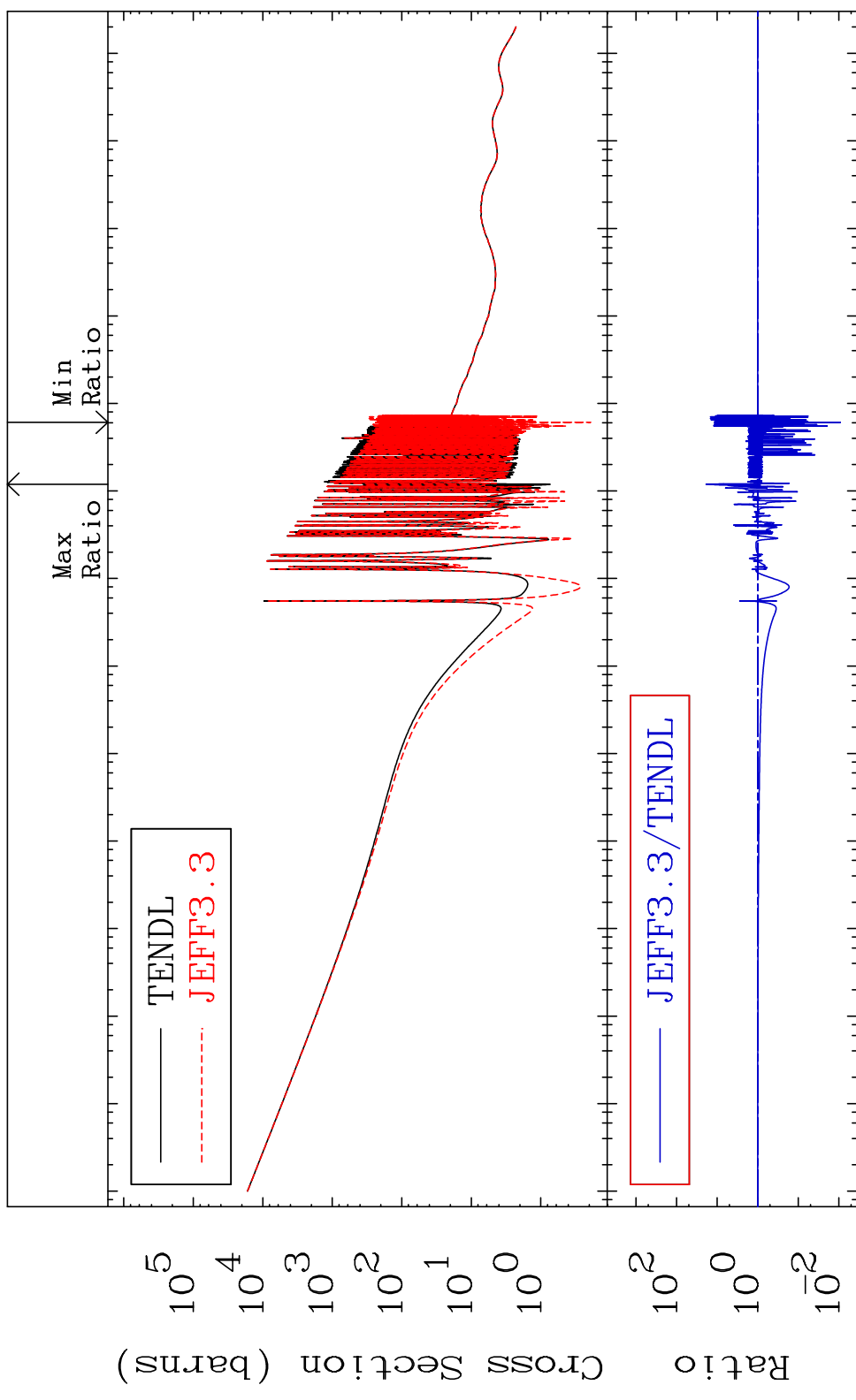
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 6028

Total Cross Section
60-Nd-143
-99.09 To 1811. %



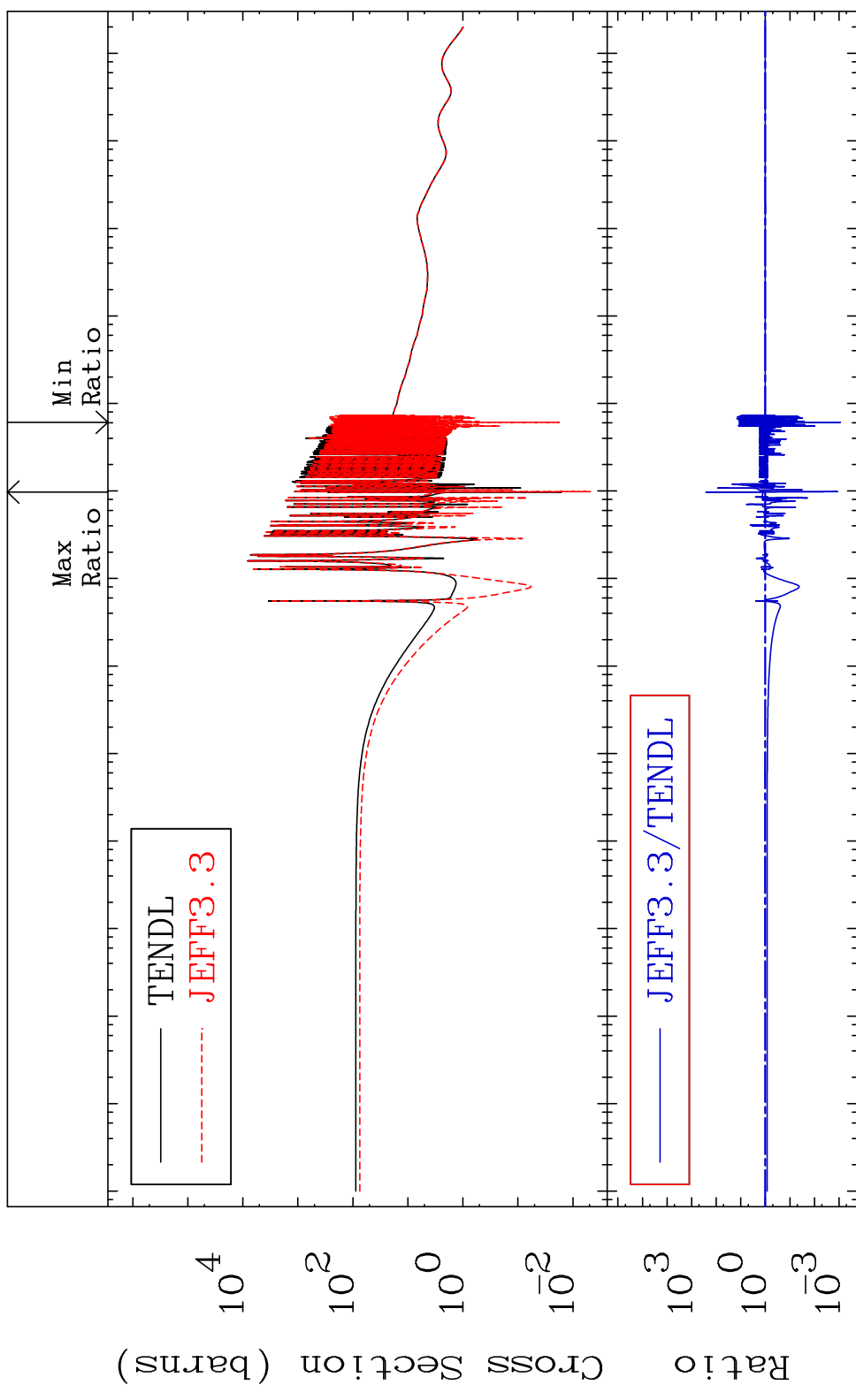
10⁵ 10⁴ 10³ 10² 10¹ 10⁰ 10⁻¹ 10⁻² 10⁻³ 10⁻⁴ 10⁻⁵

10⁸ 10⁷ 10⁶ 10⁵ 10⁴ 10³ 10² 10¹ 10⁰

Incident Energy (eV) 60-Nd-143

MAT 6028

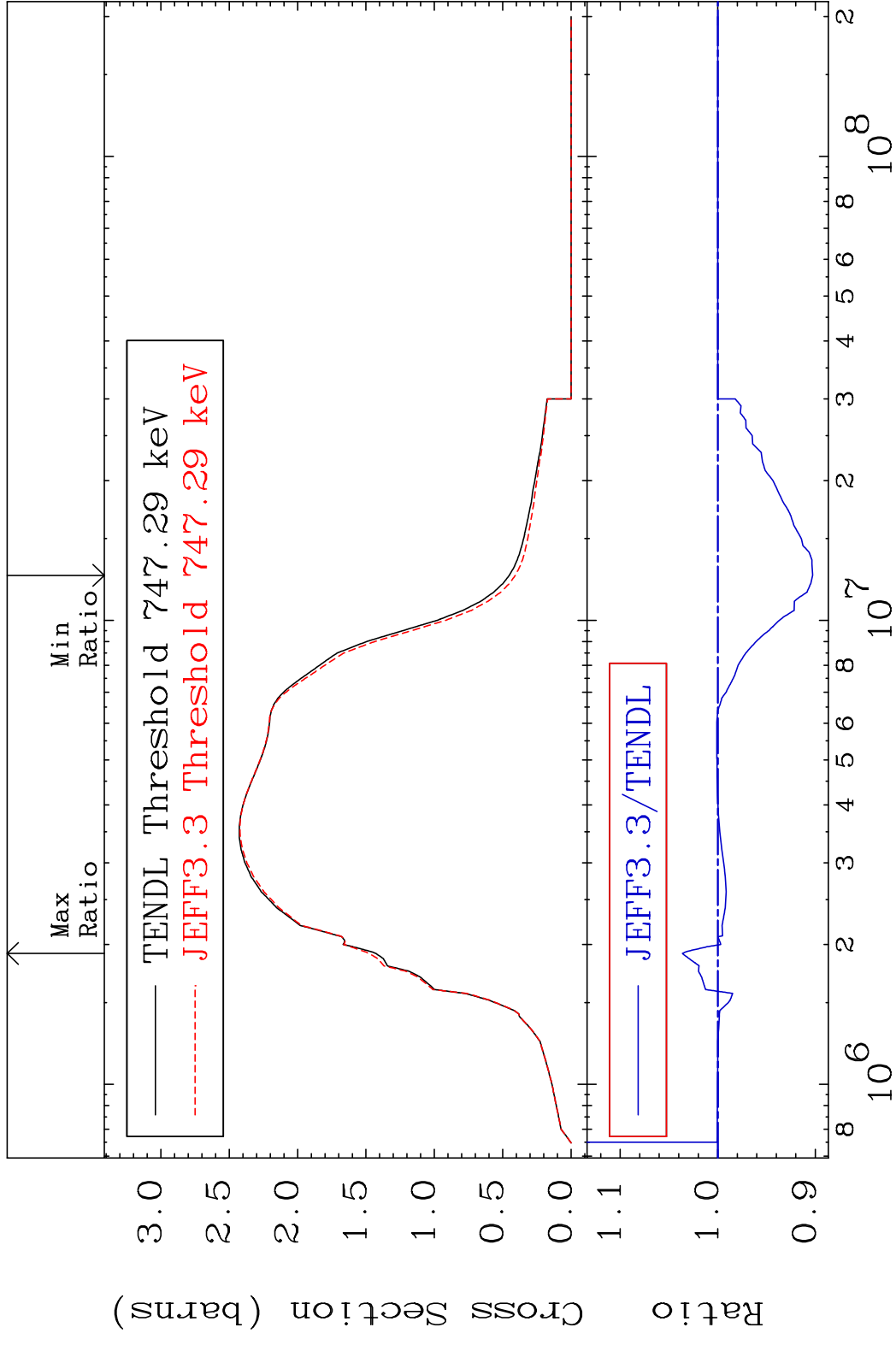
Elastic Cross Section
60-Nd-143
-99.91 To 9999. %



Ratio
10⁴
10²
10⁰
10⁻²
10³
10⁰
10⁻³
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

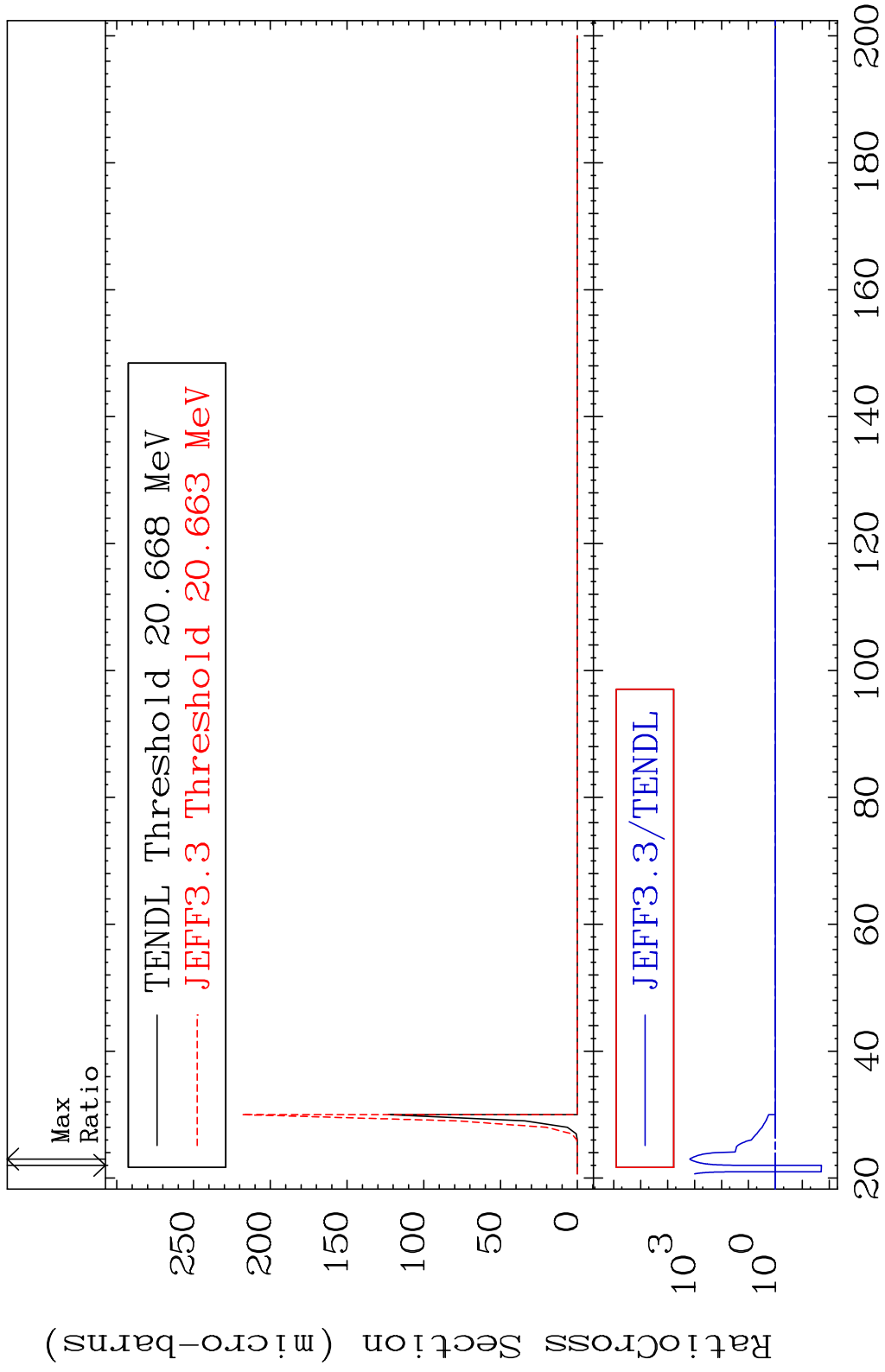
2 Incident Energy (eV) 60-Nd-143

MAT 6028 Inelastic 60-Nd-143
 Cross Section -9.716 To 3.630 %



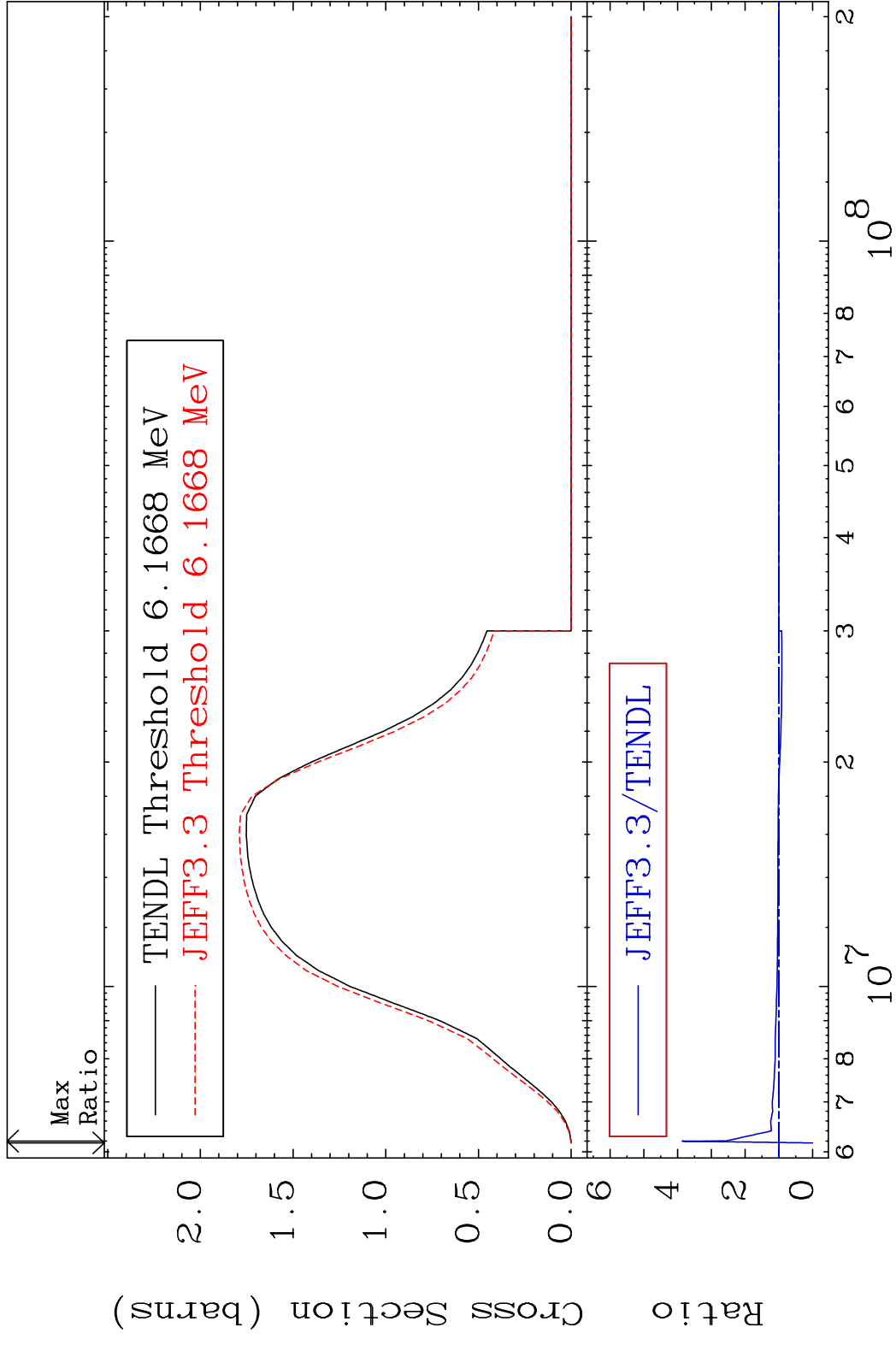
3 Incident Energy (eV) 60-Nd-143

MAT 6028 (n,2n) d 60-Nd-143
Cross Section -98.03 To 9999. %



4 Incident Energy (MeV) 60-Nd-143

MAT 6028 (n,2n) 60-Nd-143
 Cross Section -100.0 To 285.7 %



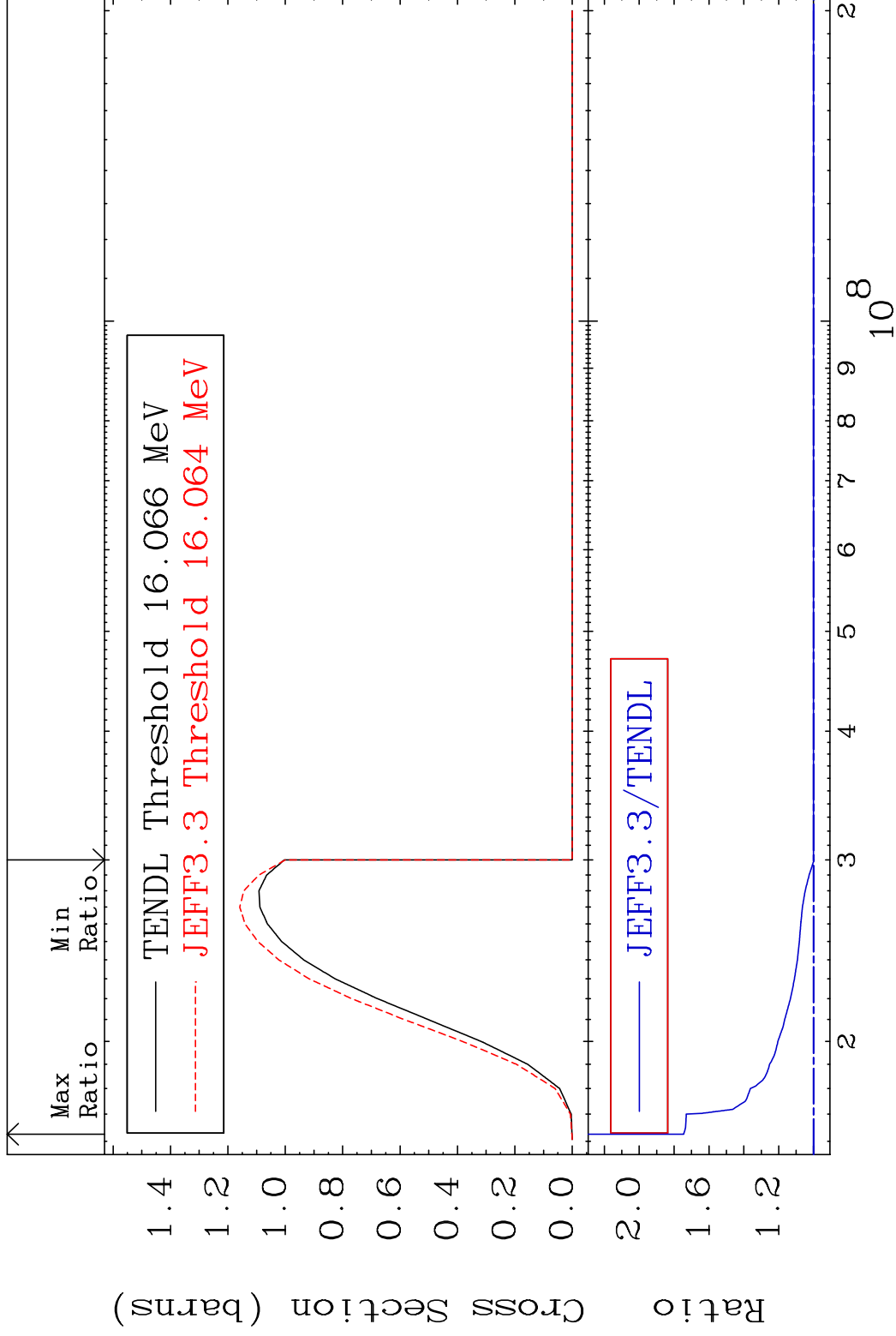
5 Incident Energy (eV) 60-Nd-143

MAT 6028

(n,3n)

60-Nd-143

Cross Section -0.300 To 74.52 %



6

Incident Energy (eV)

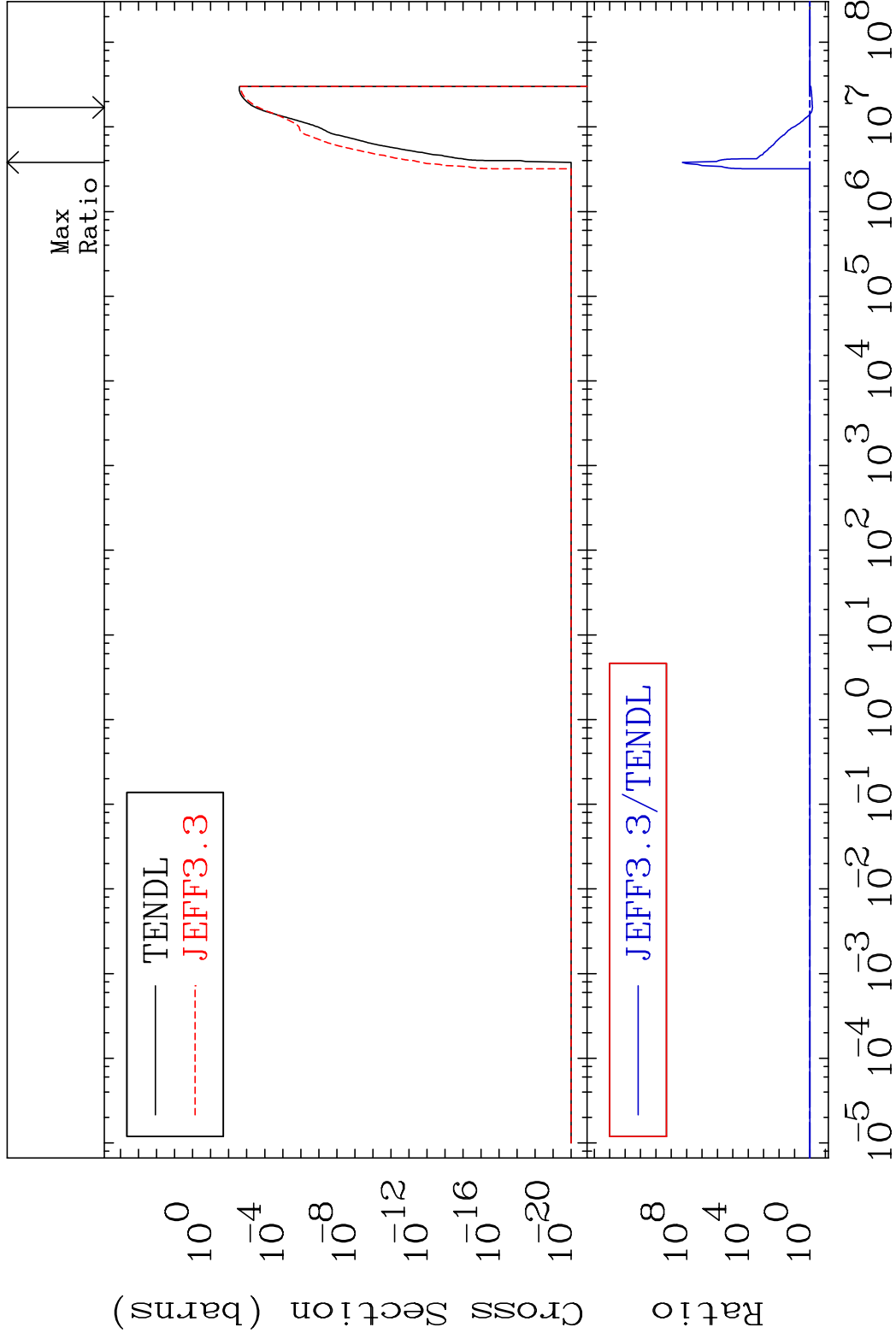
60-Nd-143

MAT 6028

(n, n') α

60-Nd-143

Cross Section -32.93 To 9999. %

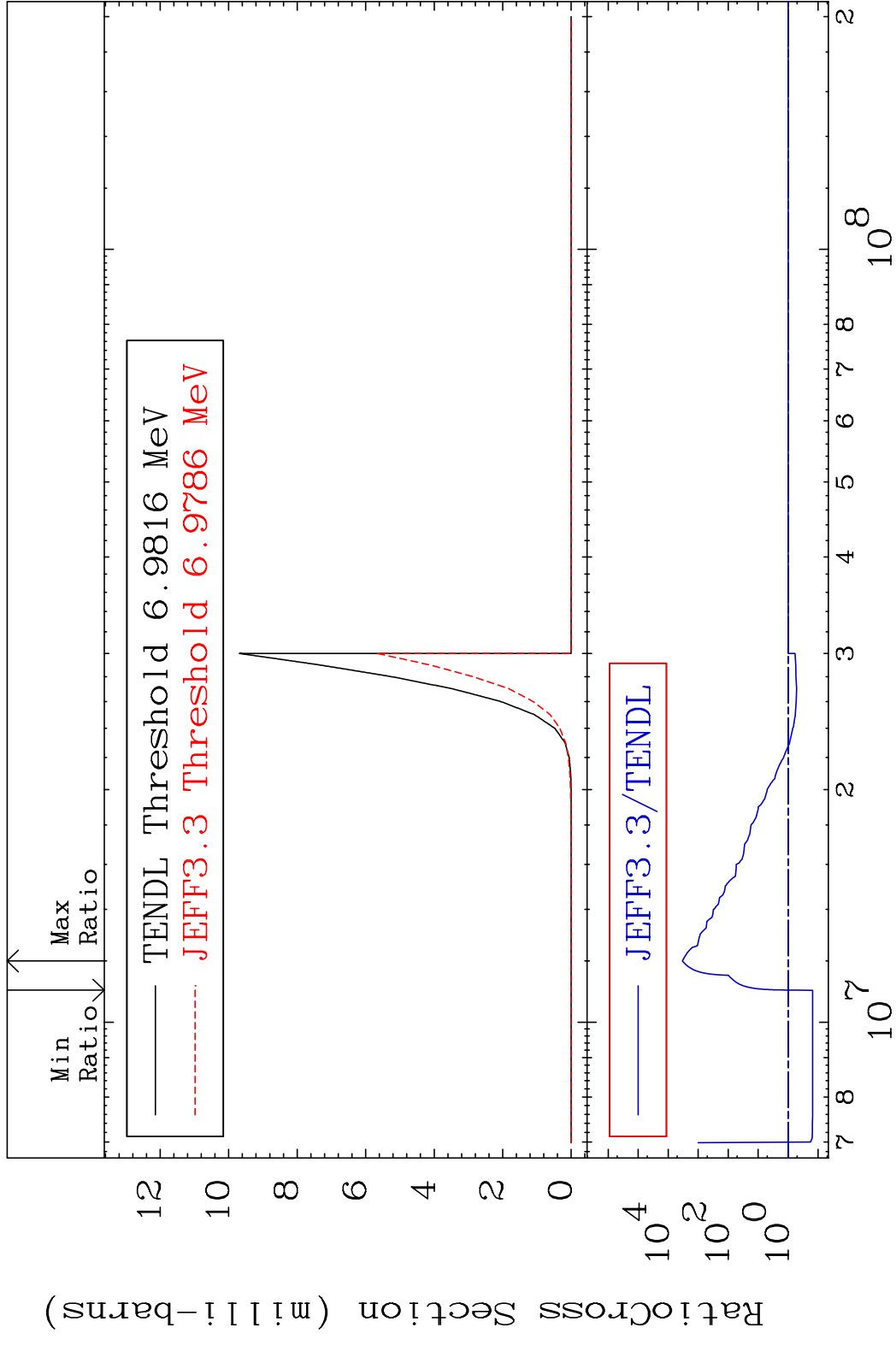


7

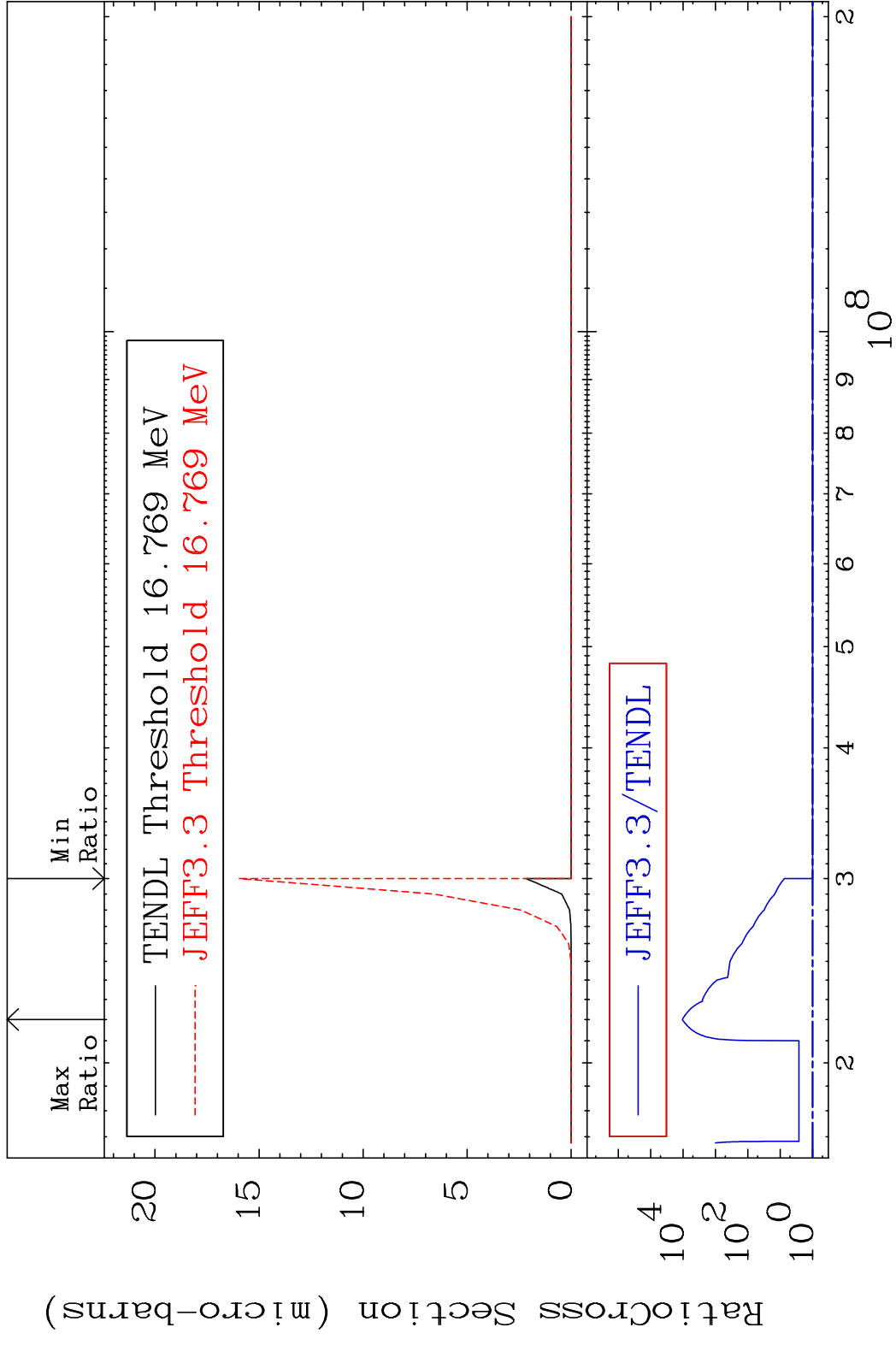
Incident Energy (eV)

60-Nd-143

MAT 6028 (n,2n) α 60-Nd-143
 Cross Section -84.69 To 9999. %

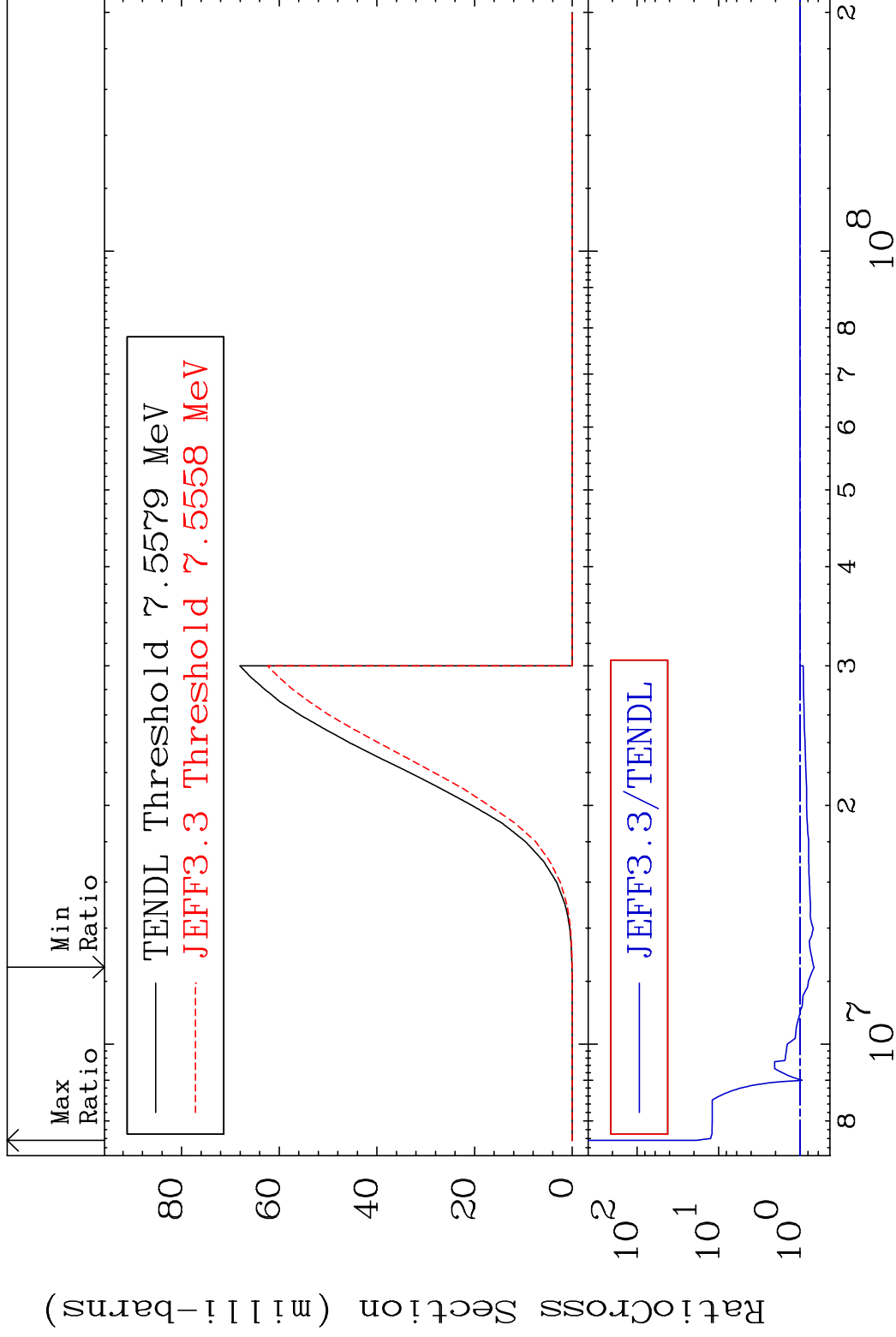


MAT 6028 (n,3n) α 60-Nd-143
 Cross Section 0.000 To 9999. %



MAT 6028

(n, n') p 60-Nd-143
Cross Section -32.67 To 2581. %



10

Incident Energy (eV)

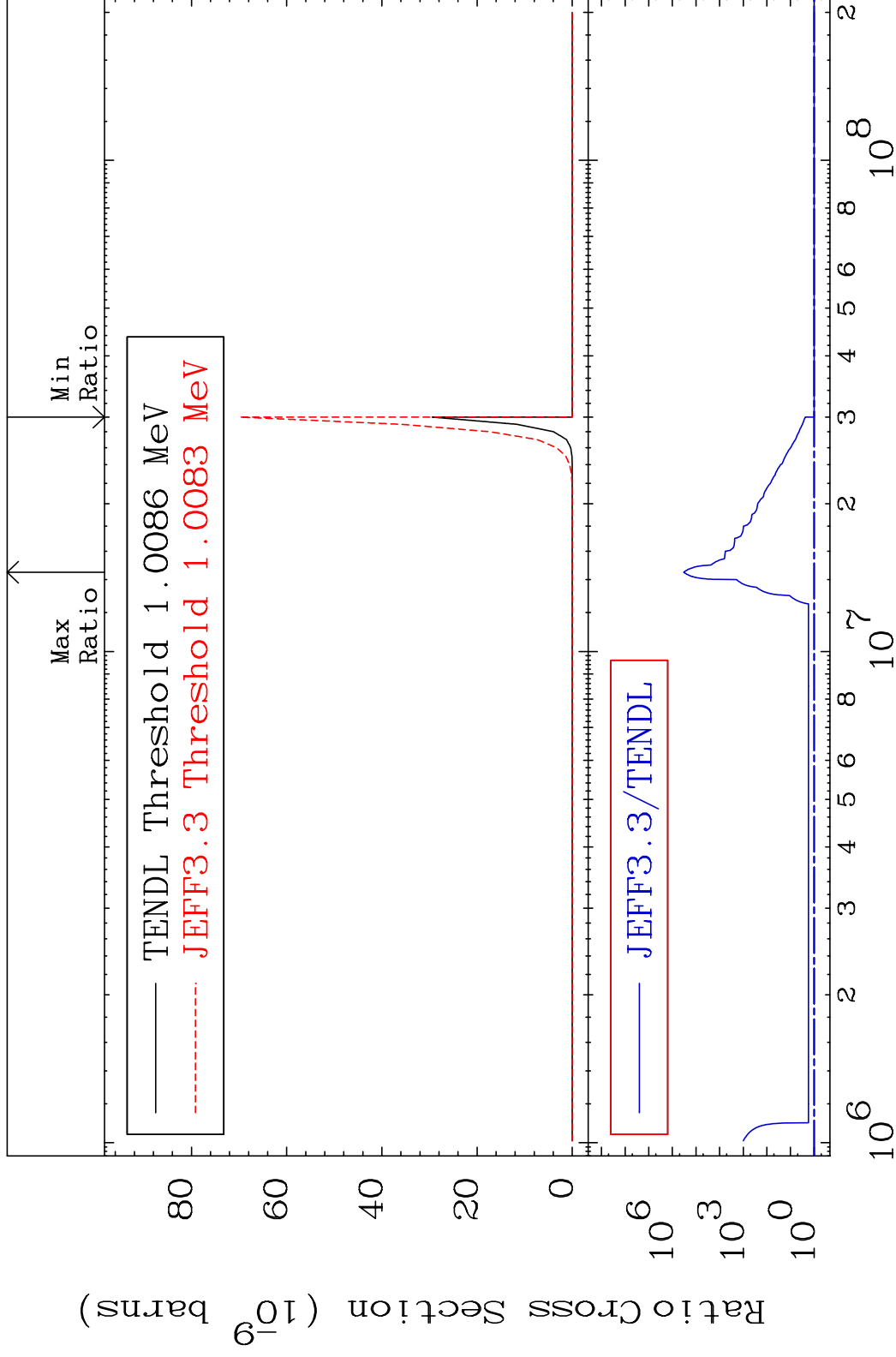
60-Nd-143

MAT 6028

(n, n') 2 α

60-Nd-143

Cross Section 0.000 To 9999. %



11

Incident Energy (eV)

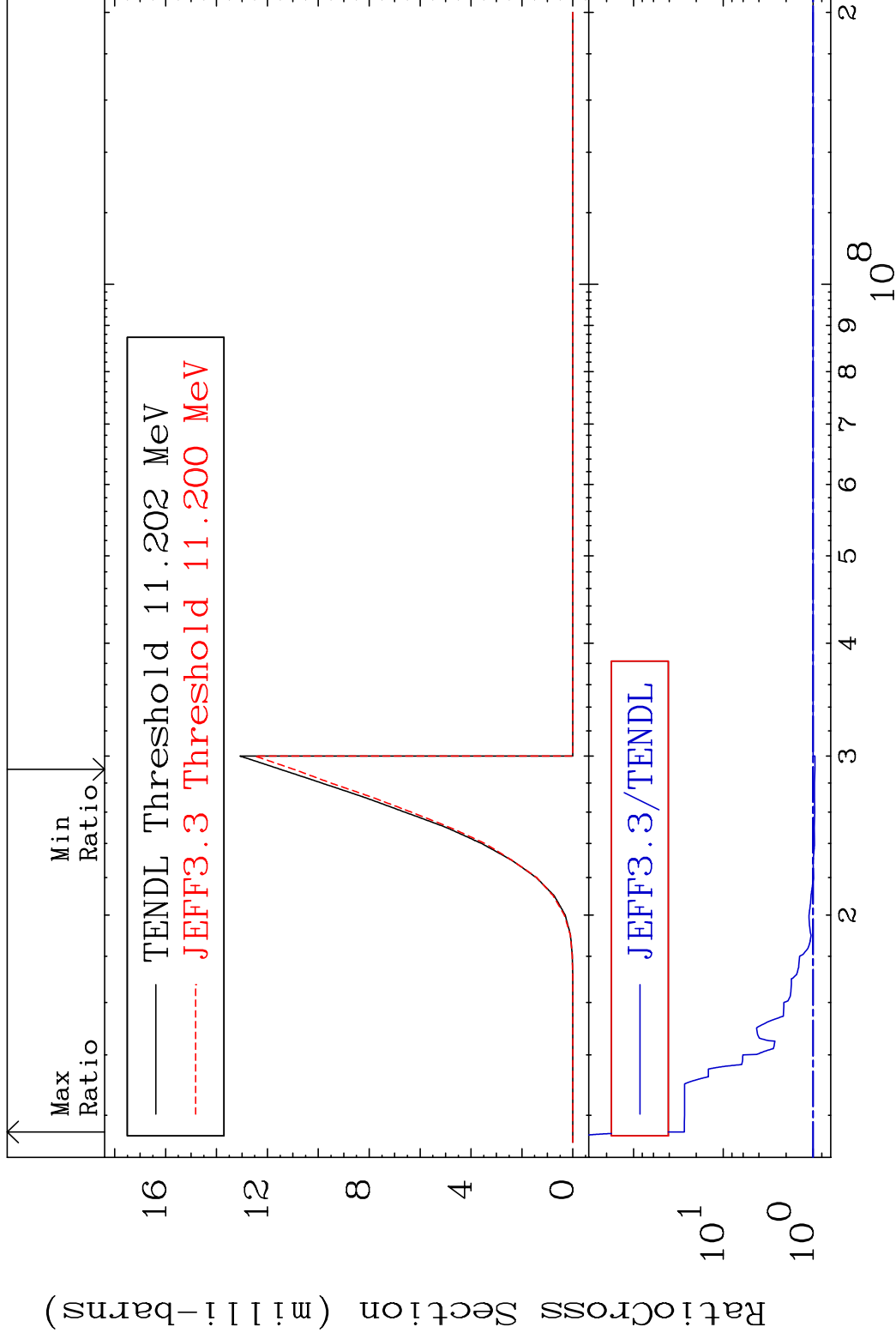
60-Nd-143

MAT 6028

(n, n') d

60-Nd-143

Cross Section -4.579 To 2618. %

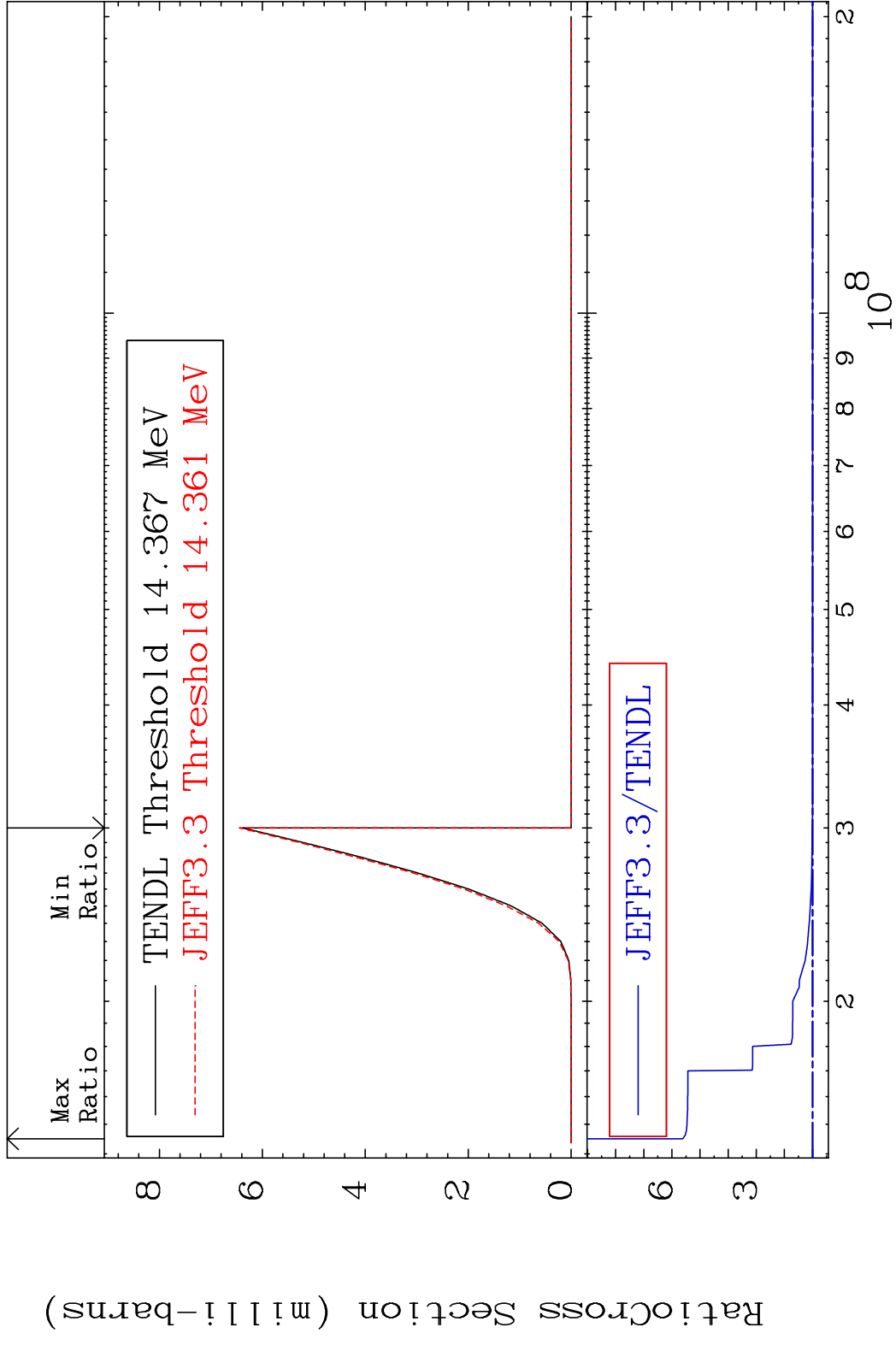


12

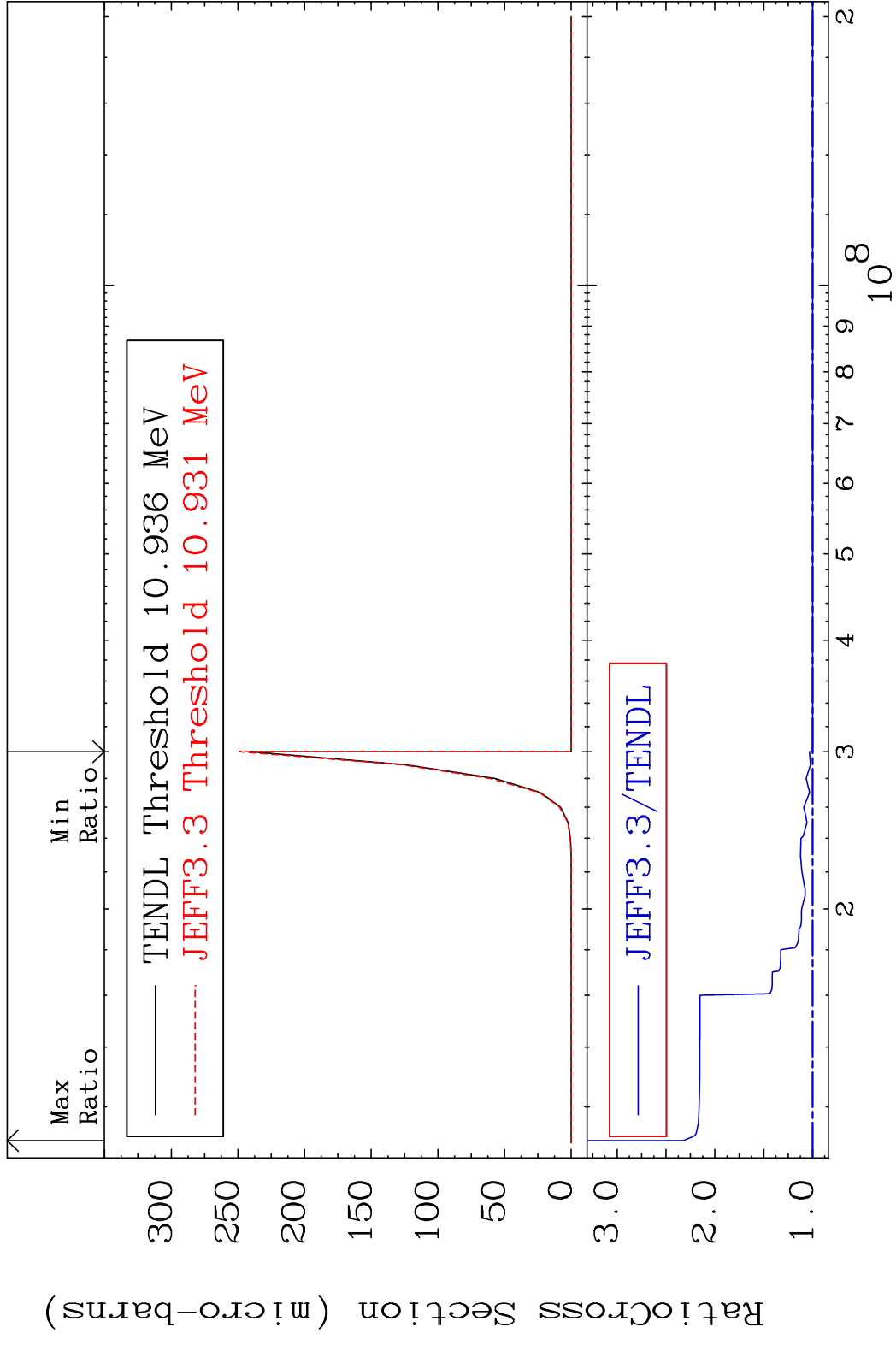
Incident Energy (eV)

60-Nd-143

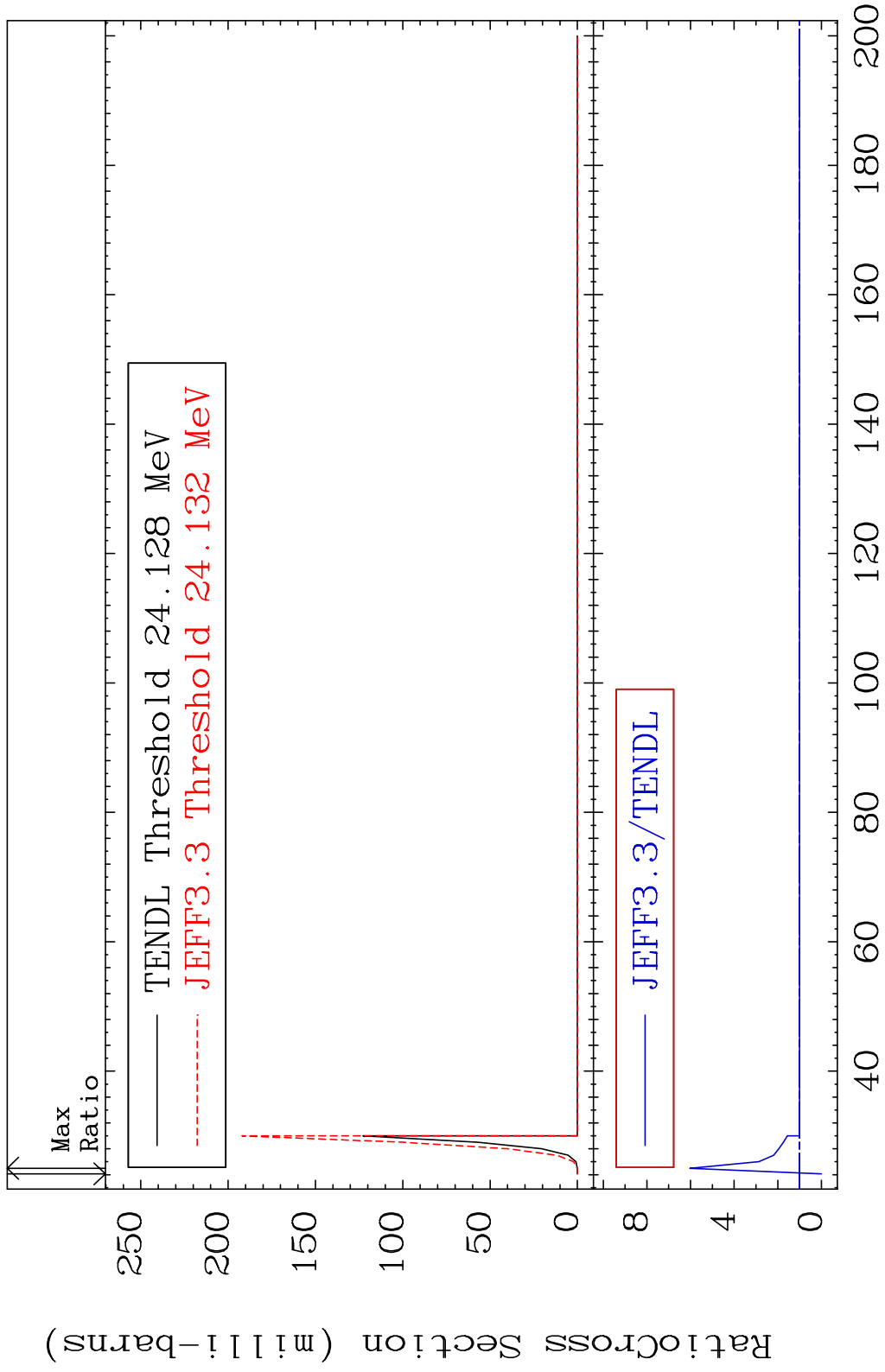
MAT 6028 (n, n') t 60-Nd-143
 Cross Section 0.000 To 462.8 %



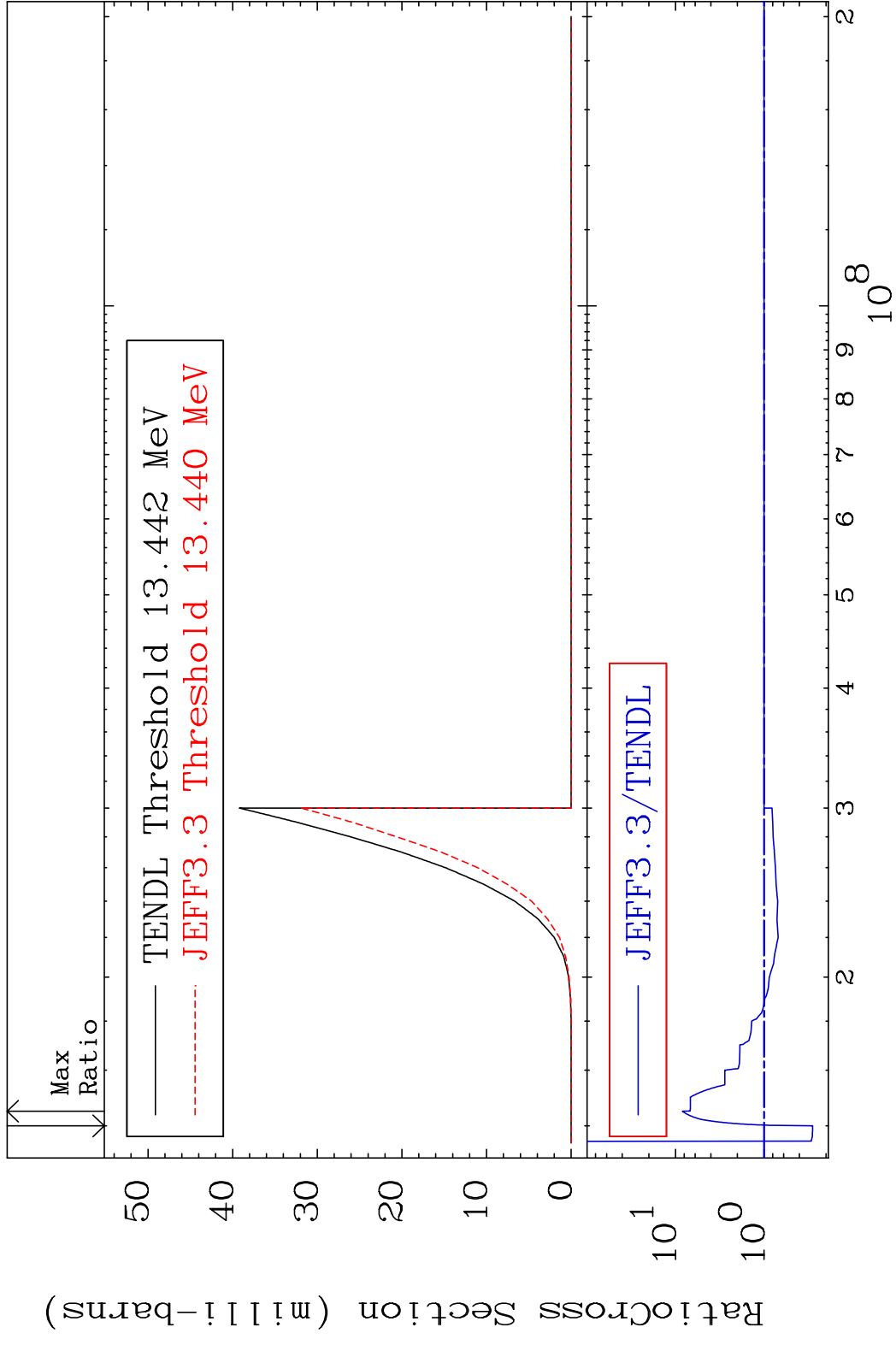
MAT 6028 (n,n') He-3 60-Nd-143
 Cross Section 0.000 To 133.3 %



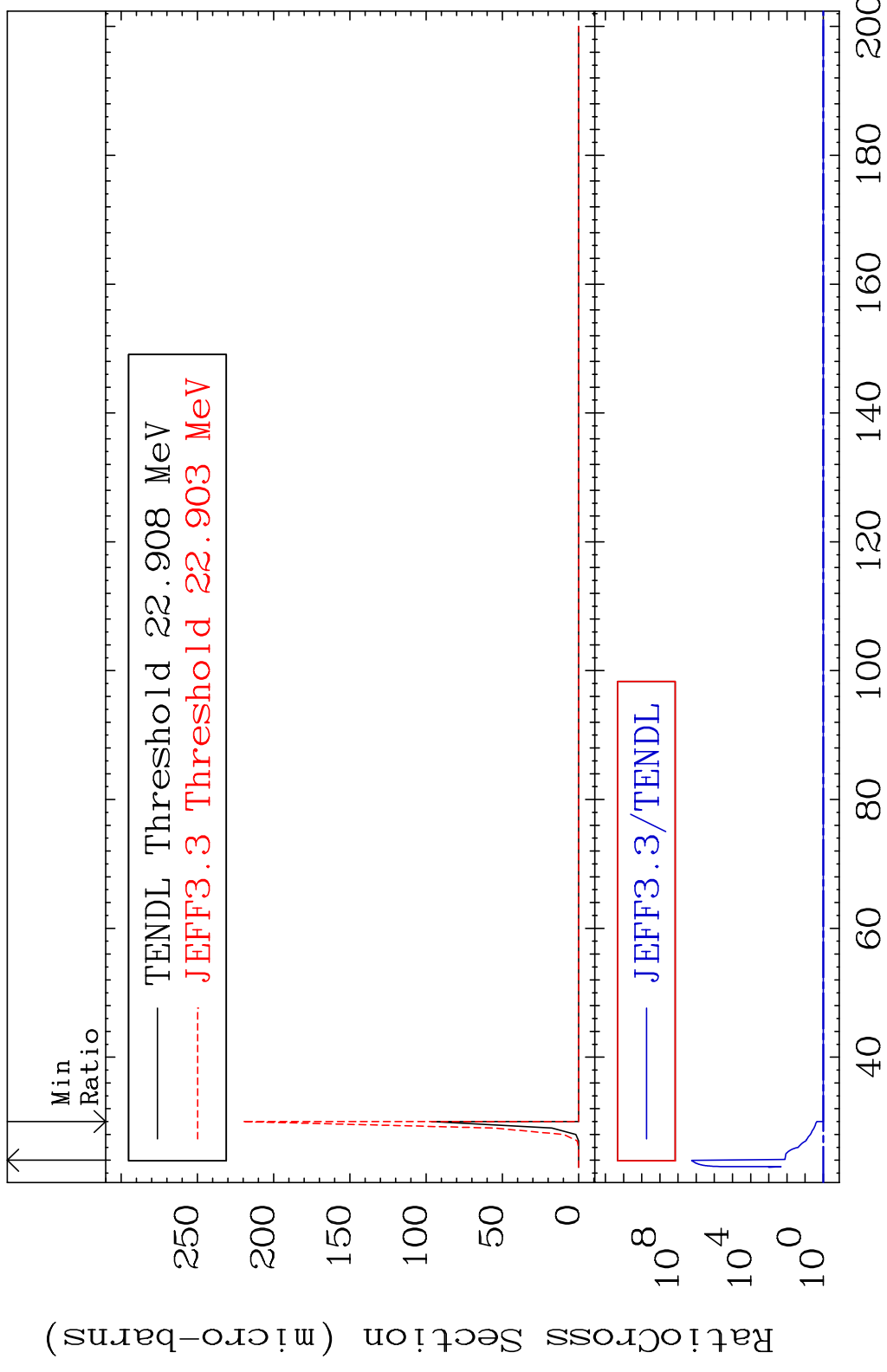
MAT 6028 (n,4n) 60-Nd-143
 Cross Section -100.0 To 503.4 %



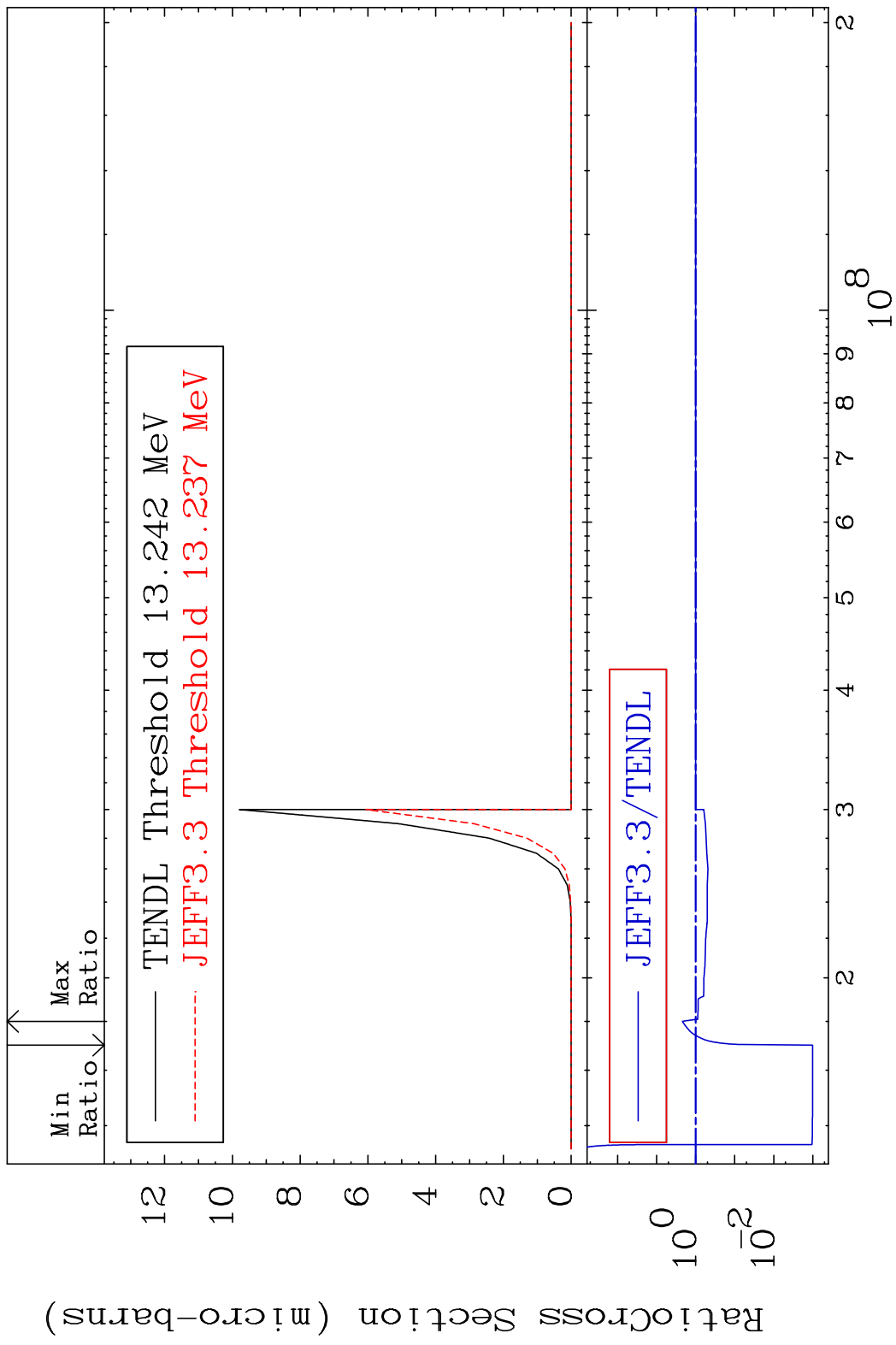
MAT 6028 (n,2n) p 60-Nd-143
 Cross Section -71.62 To 737.7 %



MAT 6028 (n,3n) p 60-Nd-143
 Cross Section 0.000 To 9999. %



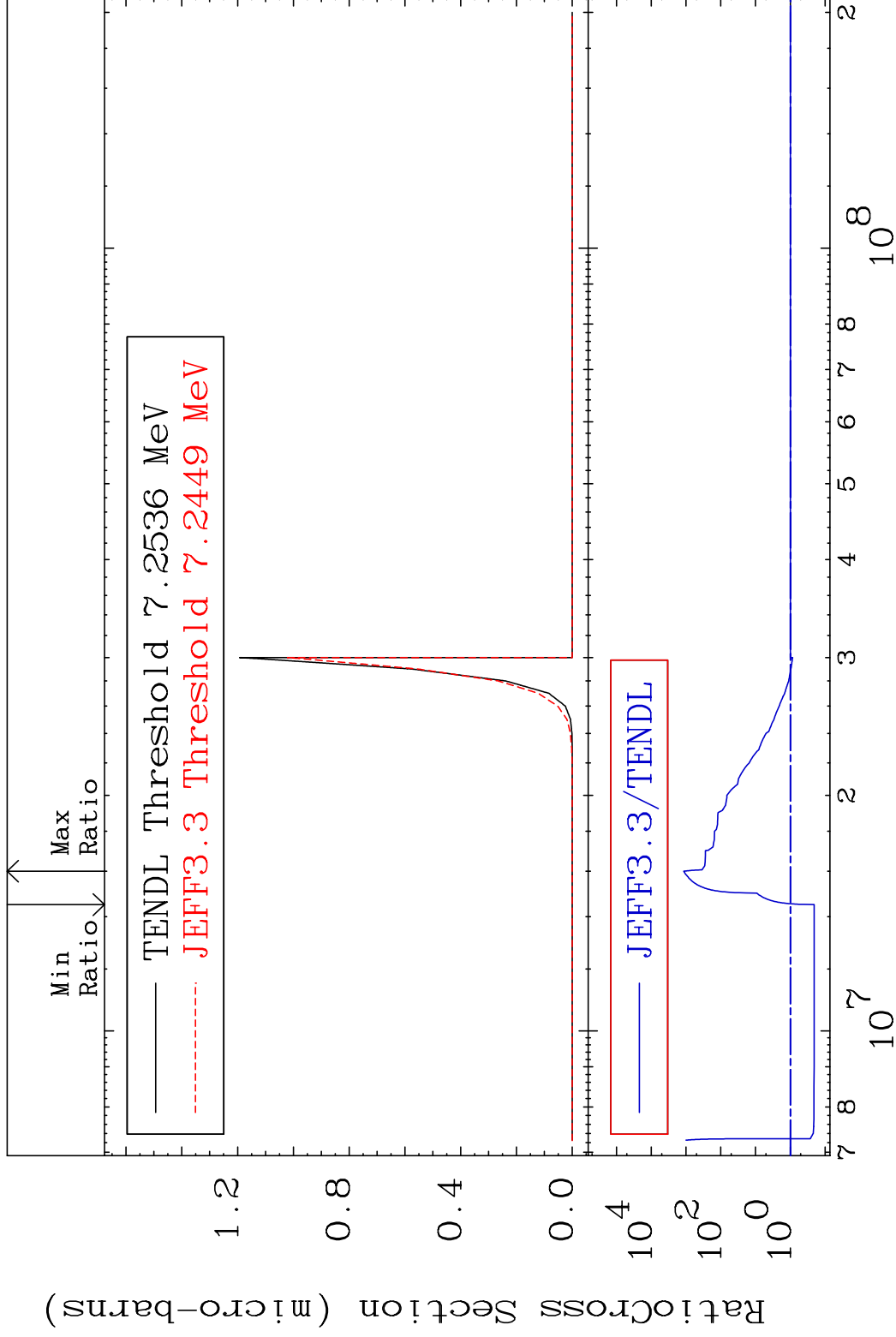
MAT 6028 (n,2n) p 60-Nd-143
 Cross Section -99.90 To 119.5 %



MAT 6028

(n, n') p α 60-Nd-143

Cross Section -79.31 To 9999. %

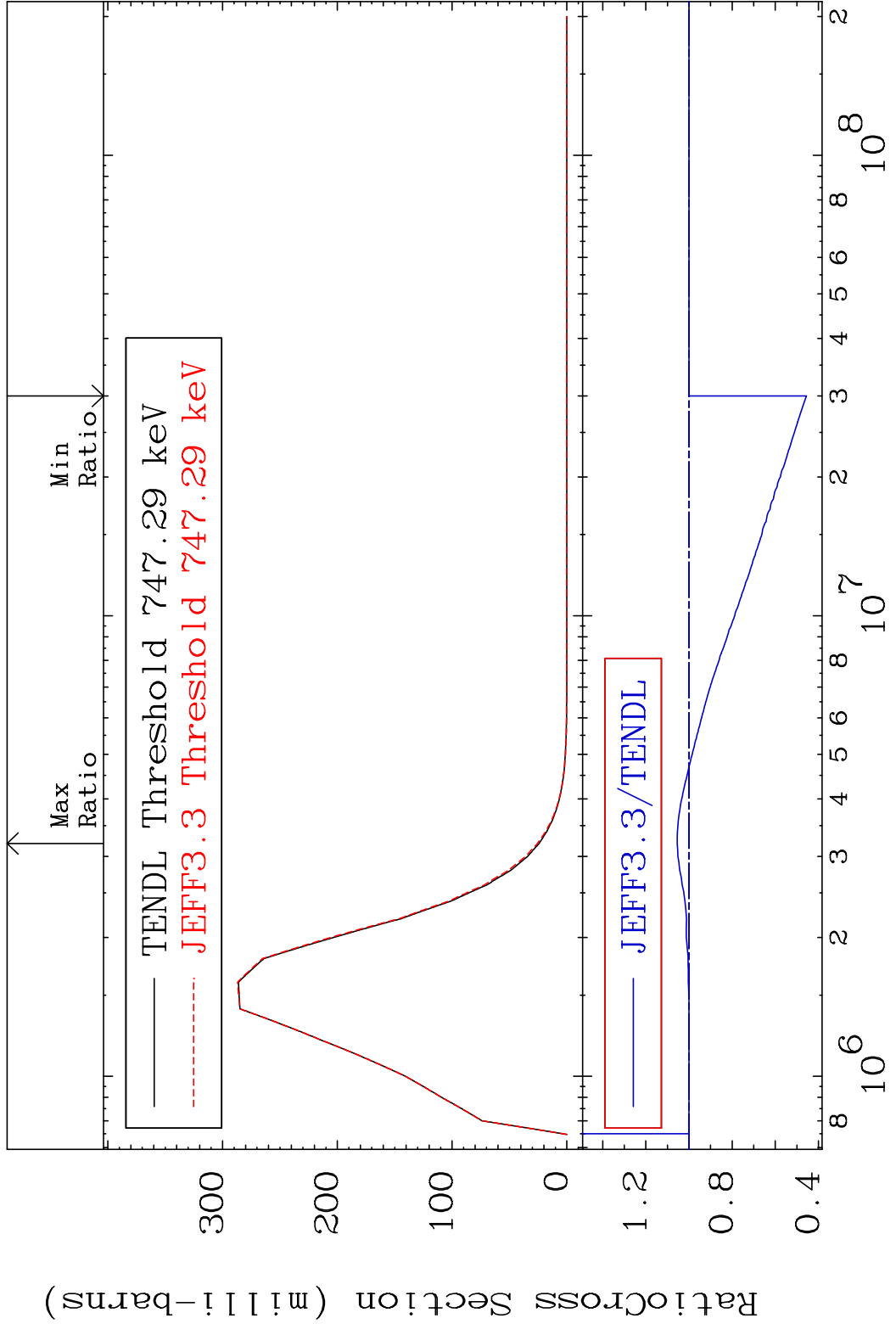


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Incident Energy (eV)

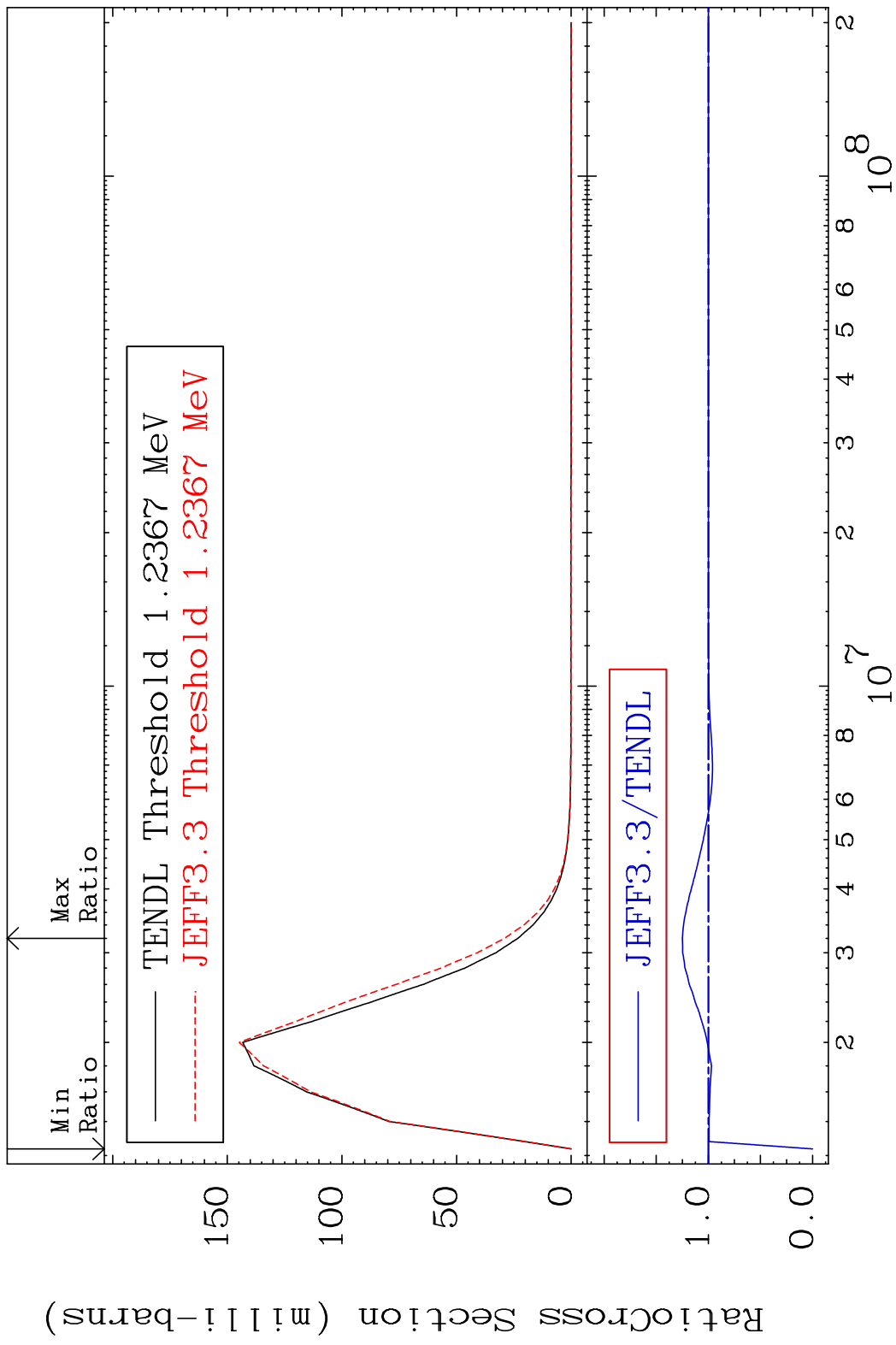
60-Nd-143

MAT 6028 MT= 51 (n, n') Level 60-Nd-143
 Cross Section -54.43 To 5.476 %

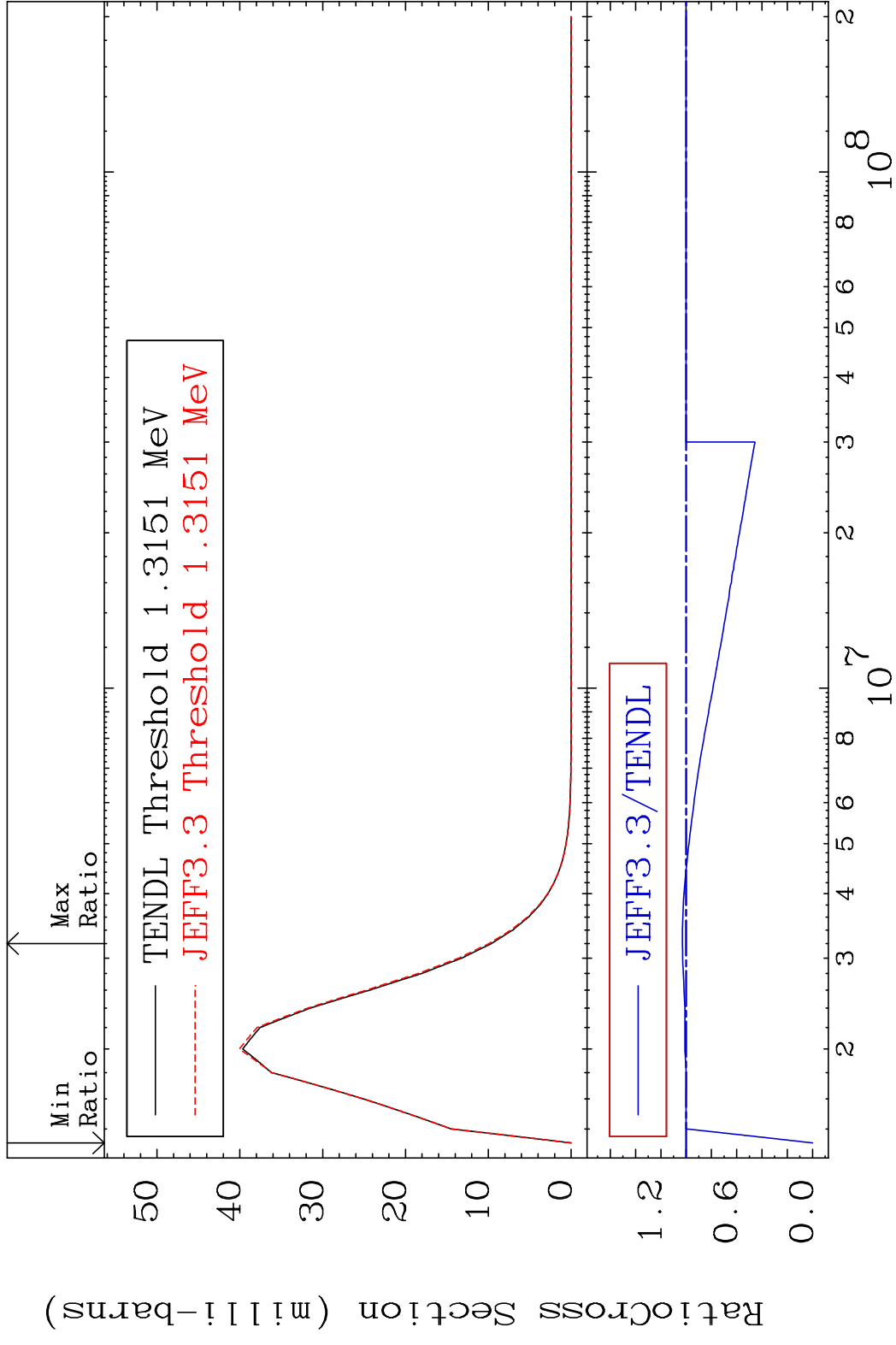


20 Incident Energy (eV) 60-Nd-143

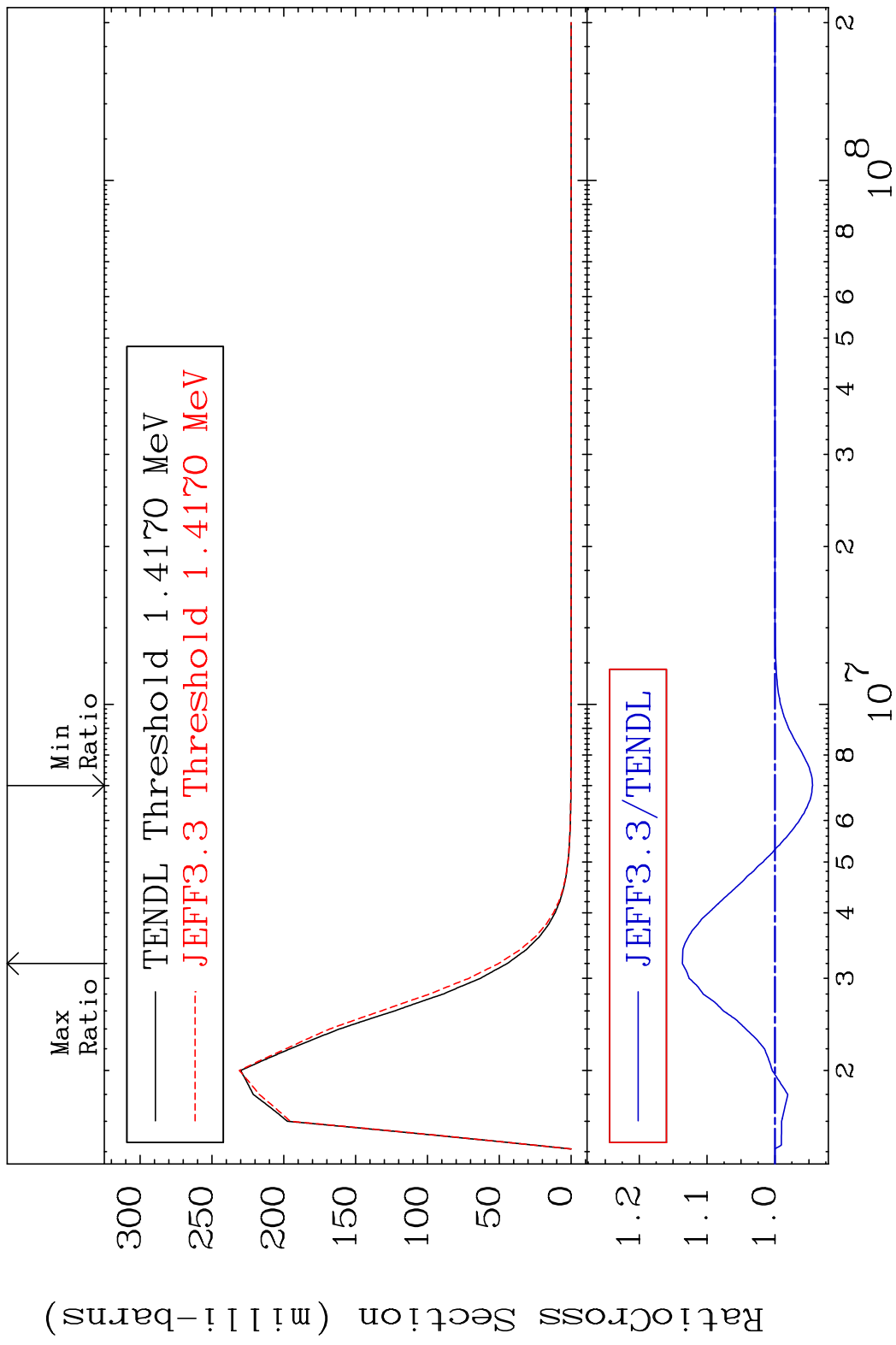
MAT 6028 MT= 52 (n, n') Level 60-Nd-143
 Cross Section -100.0 To 24.94 %



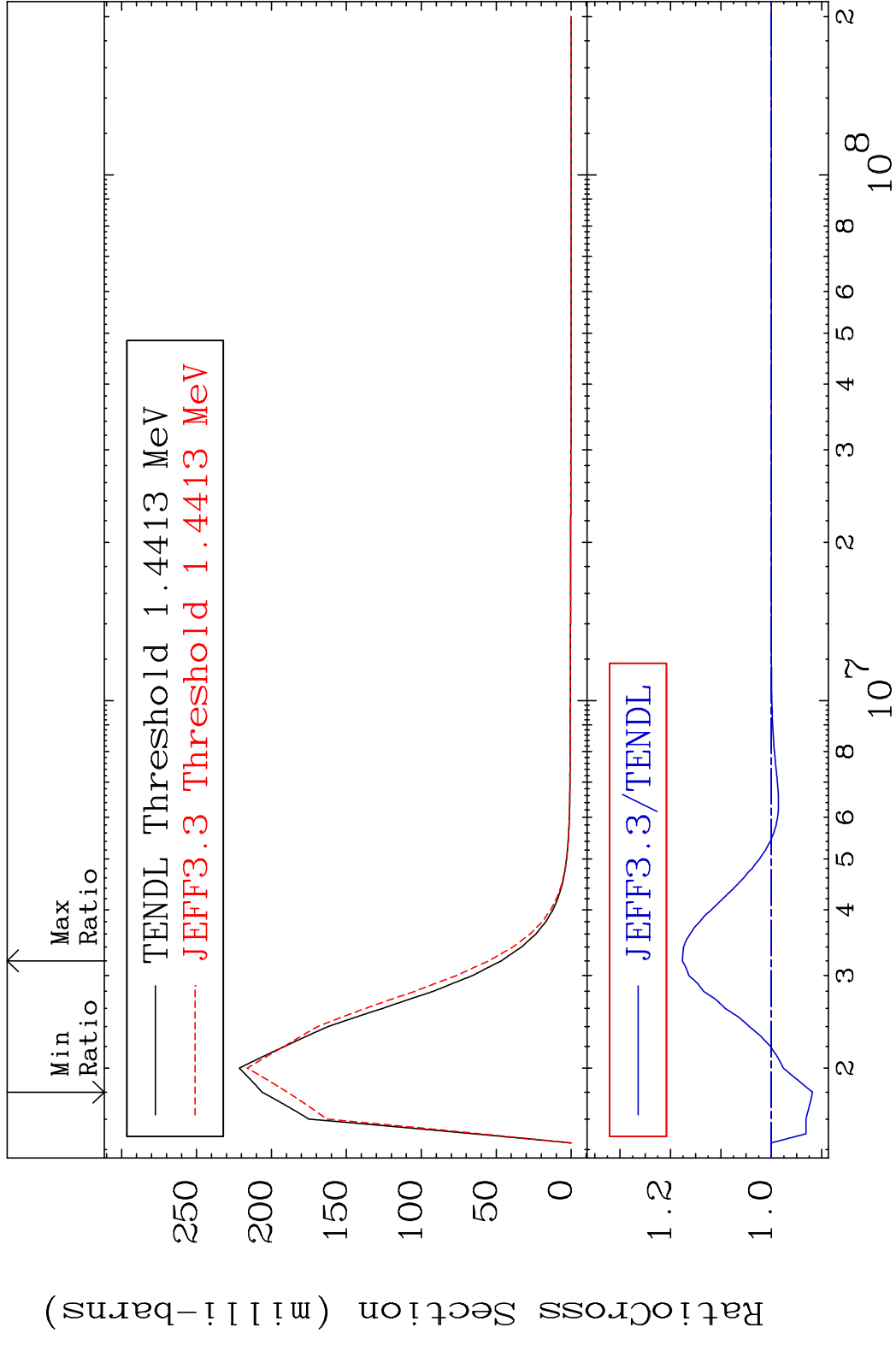
MAT 6028 MT= 53 (n, n') Level 60-Nd-143
 Cross Section -100.0 To 2.997 %



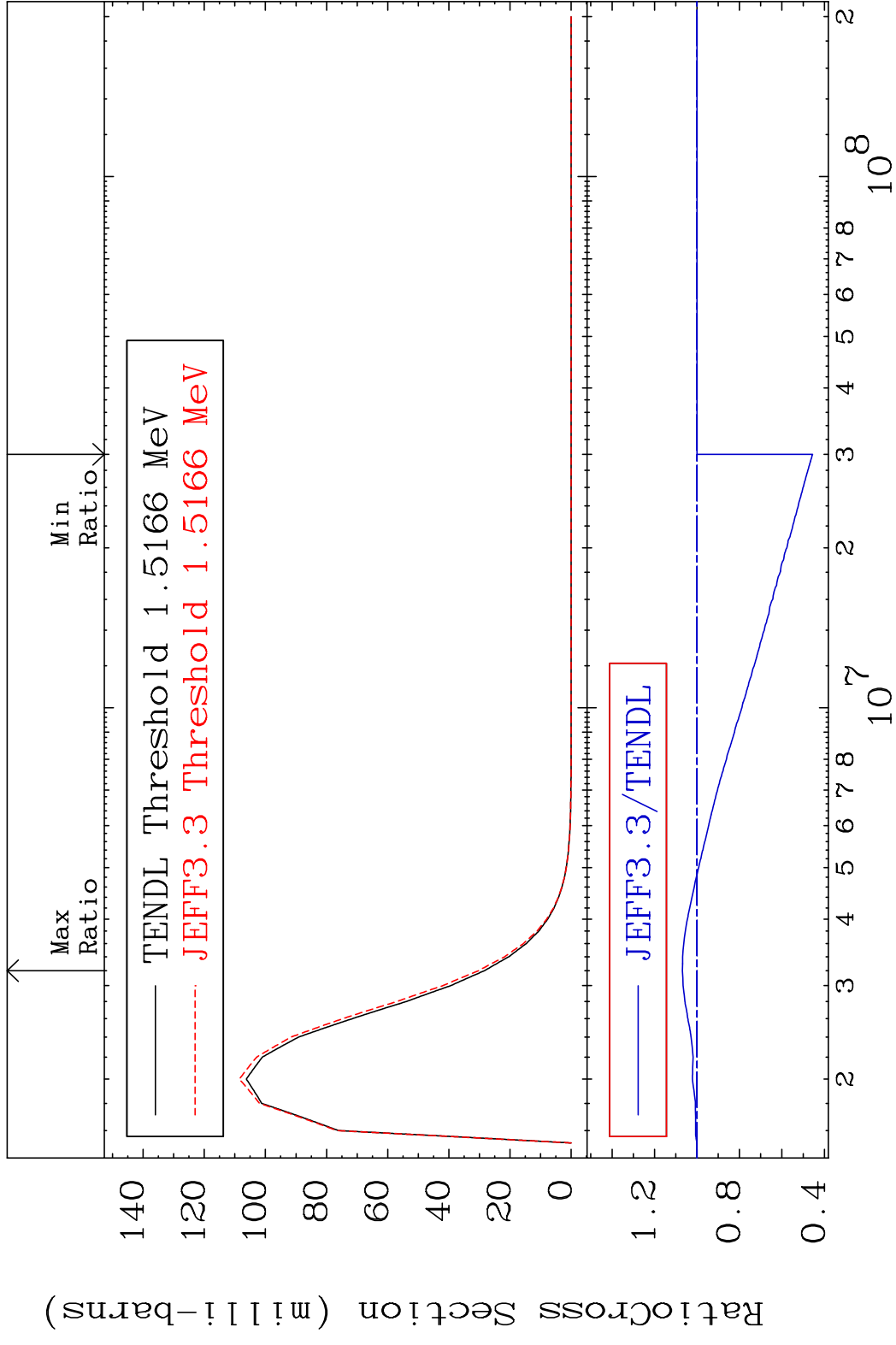
MAT 6028 MT= 54 (n,n') Level 60-Nd-143
 Cross Section -5.534 To 13.64 %



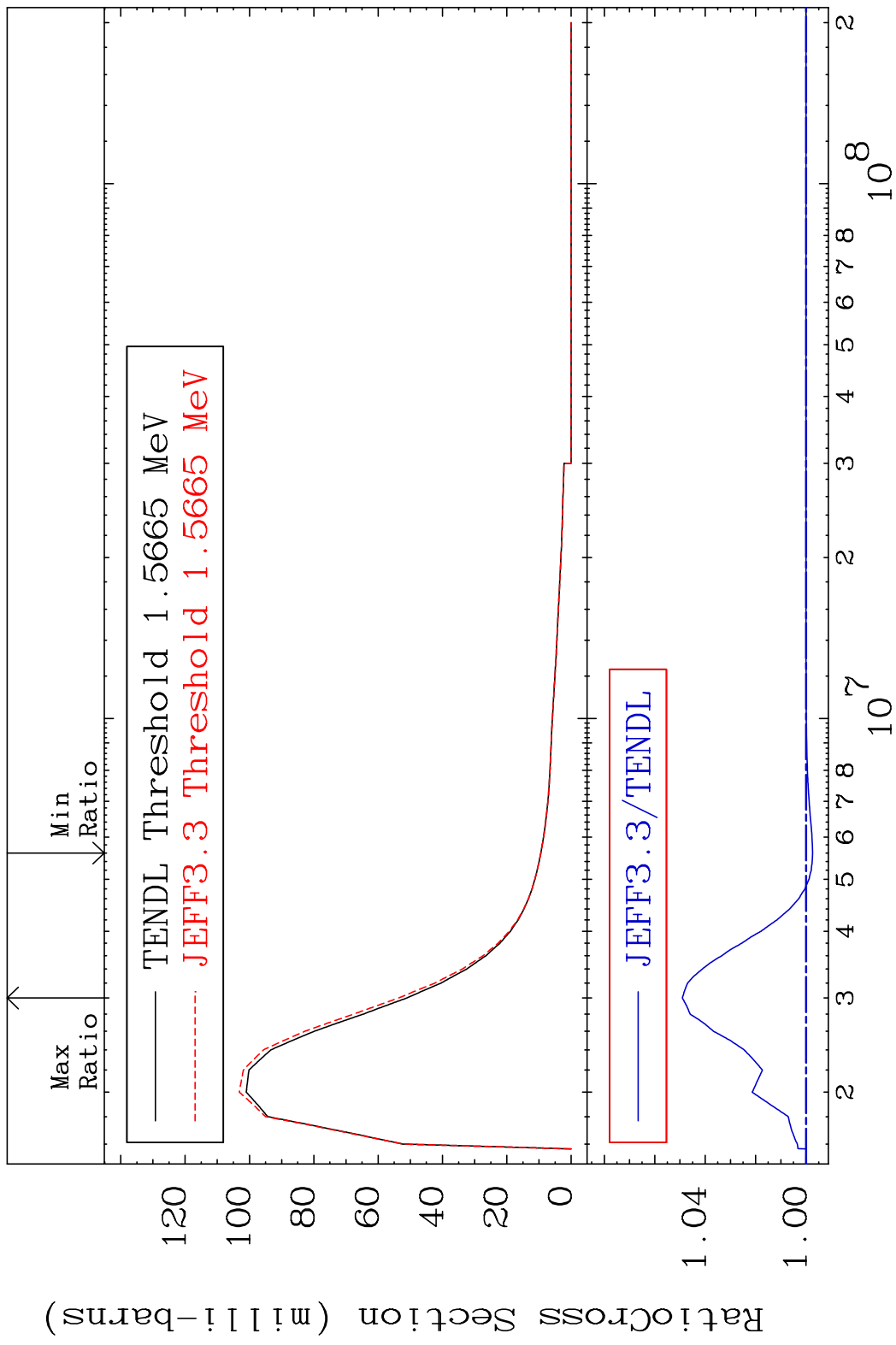
MAT 6028 MT= 55 (n,n') Level 60-Nd-143
 Cross Section -8.169 To 17.64 %



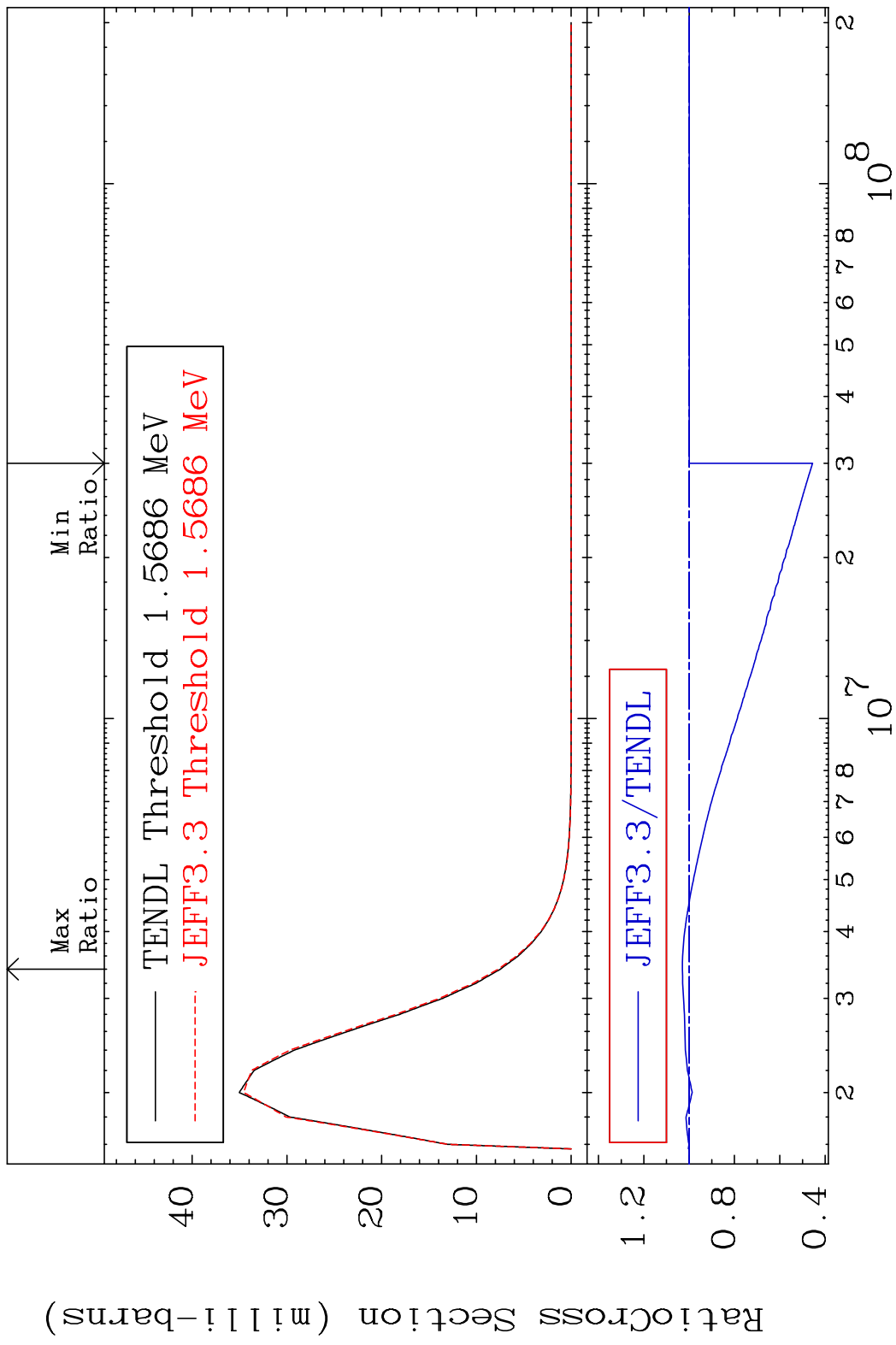
MAT 6028 MT= 56 (n, n') Level 60-Nd-143
 Cross Section -54.42 To 6.890 %



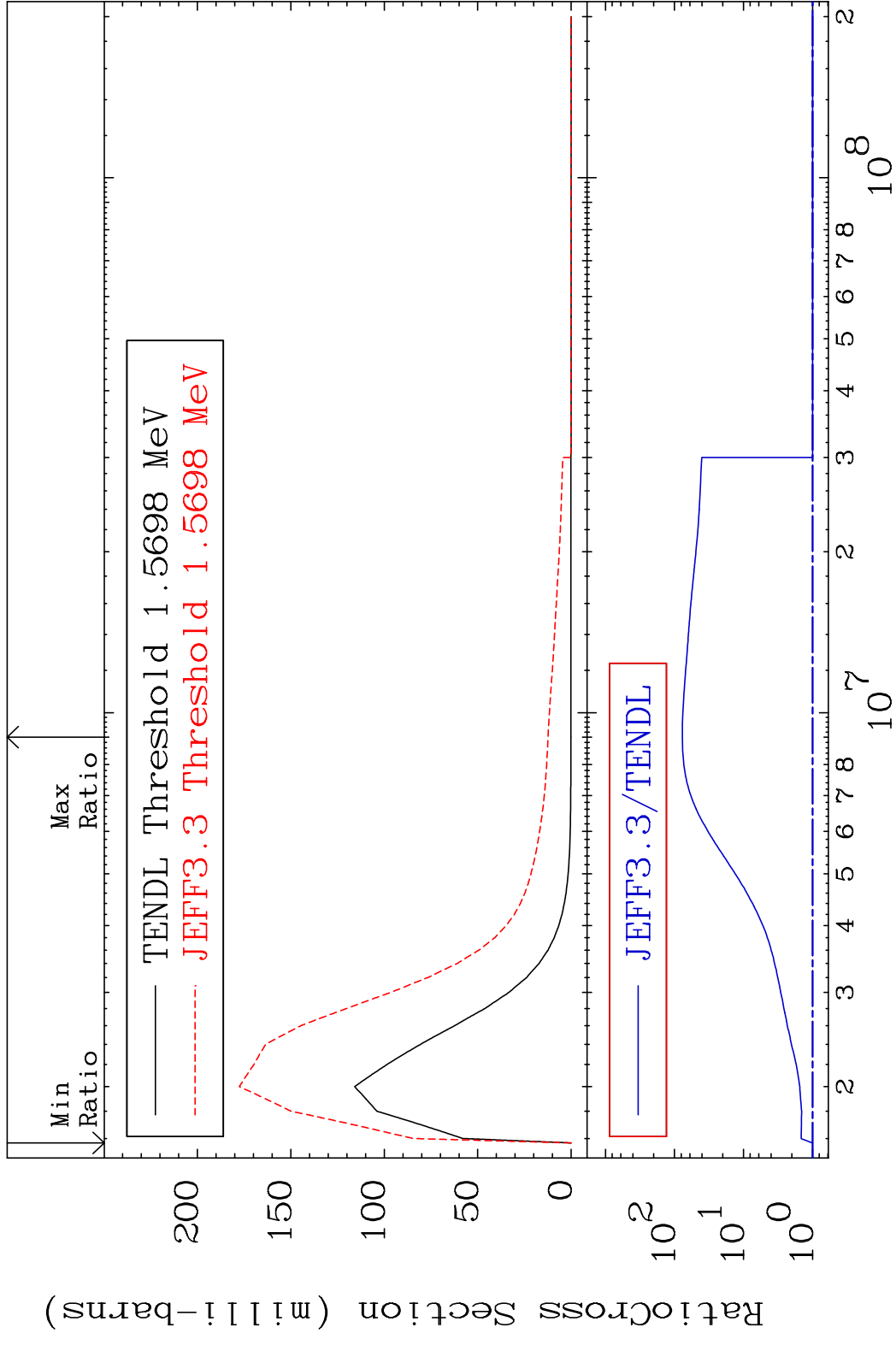
MAT 6028 MT= 57 (n,n') Level 60-Nd-143
 Cross Section -0.257 To 4.906 %



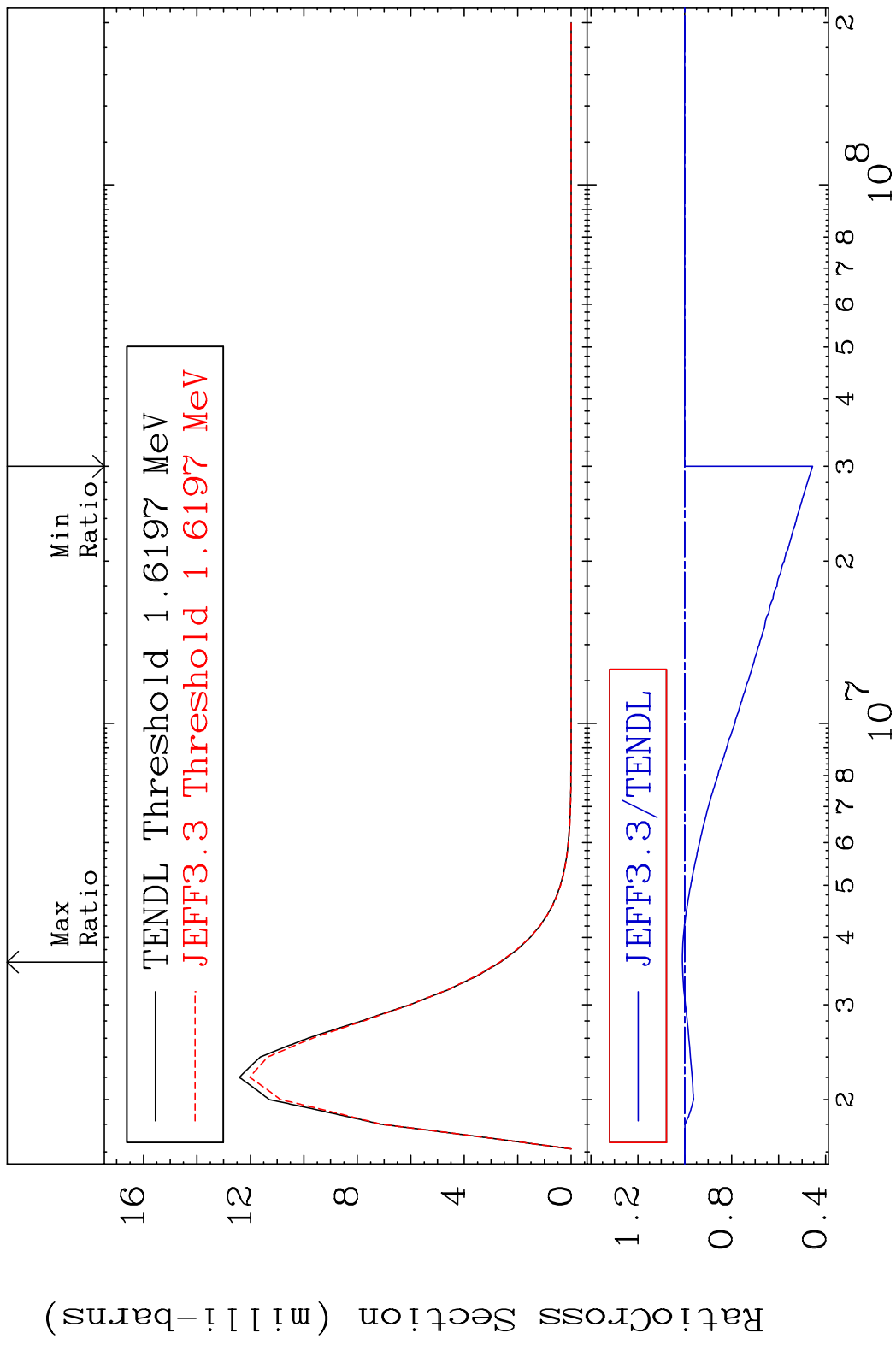
MAT 6028 MT= 58 (n, n') Level 60-Nd-143
 Cross Section -54.44 To 3.003 %



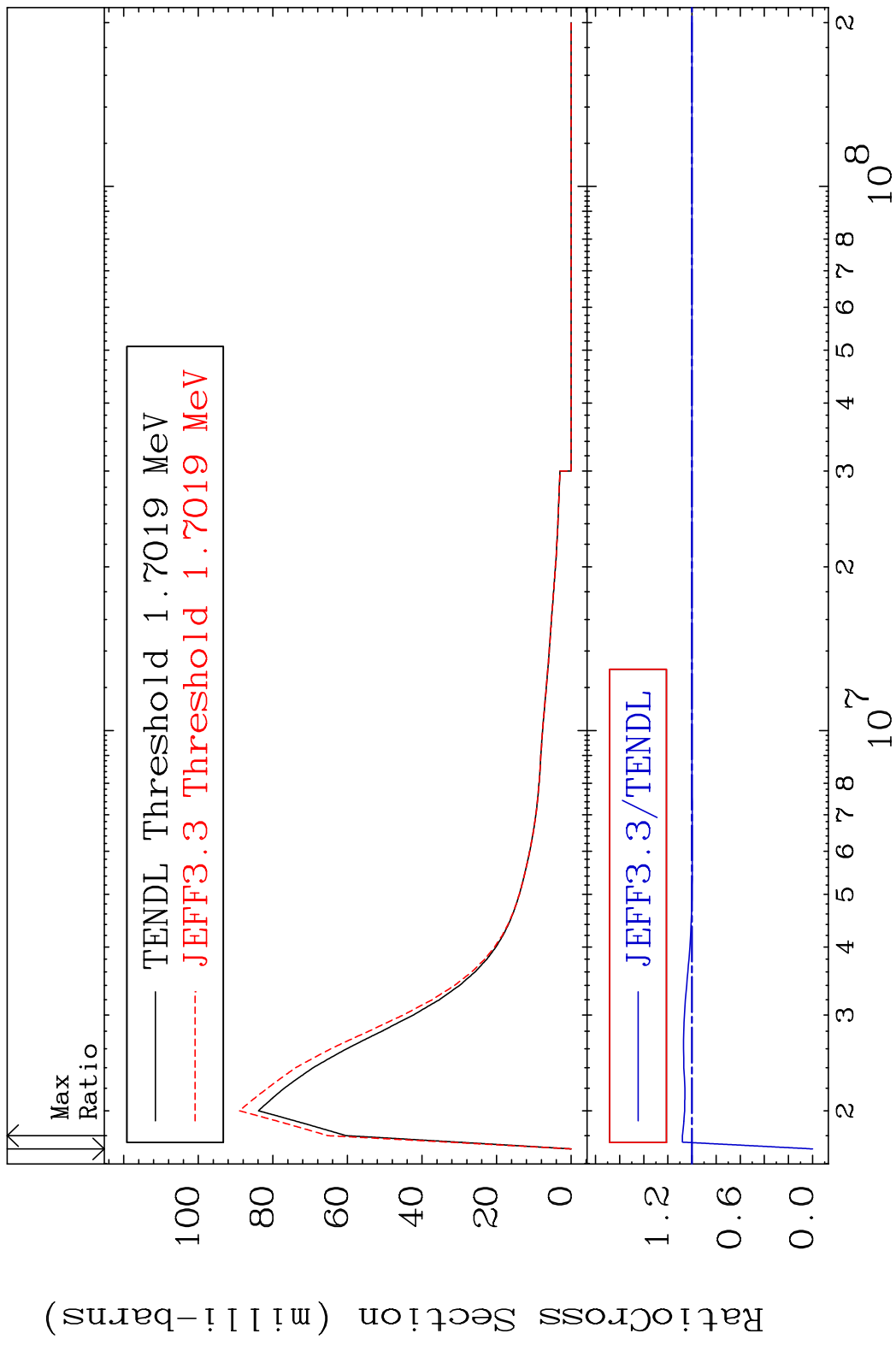
MAT 6028 MT= 59 (n, n') Level 60-Nd-143
 Cross Section 0.000 To 7594. %



MAT 6028 MT= 60 (n, n') Level 60-Nd-143
 Cross Section -54.45 To 1.025 %

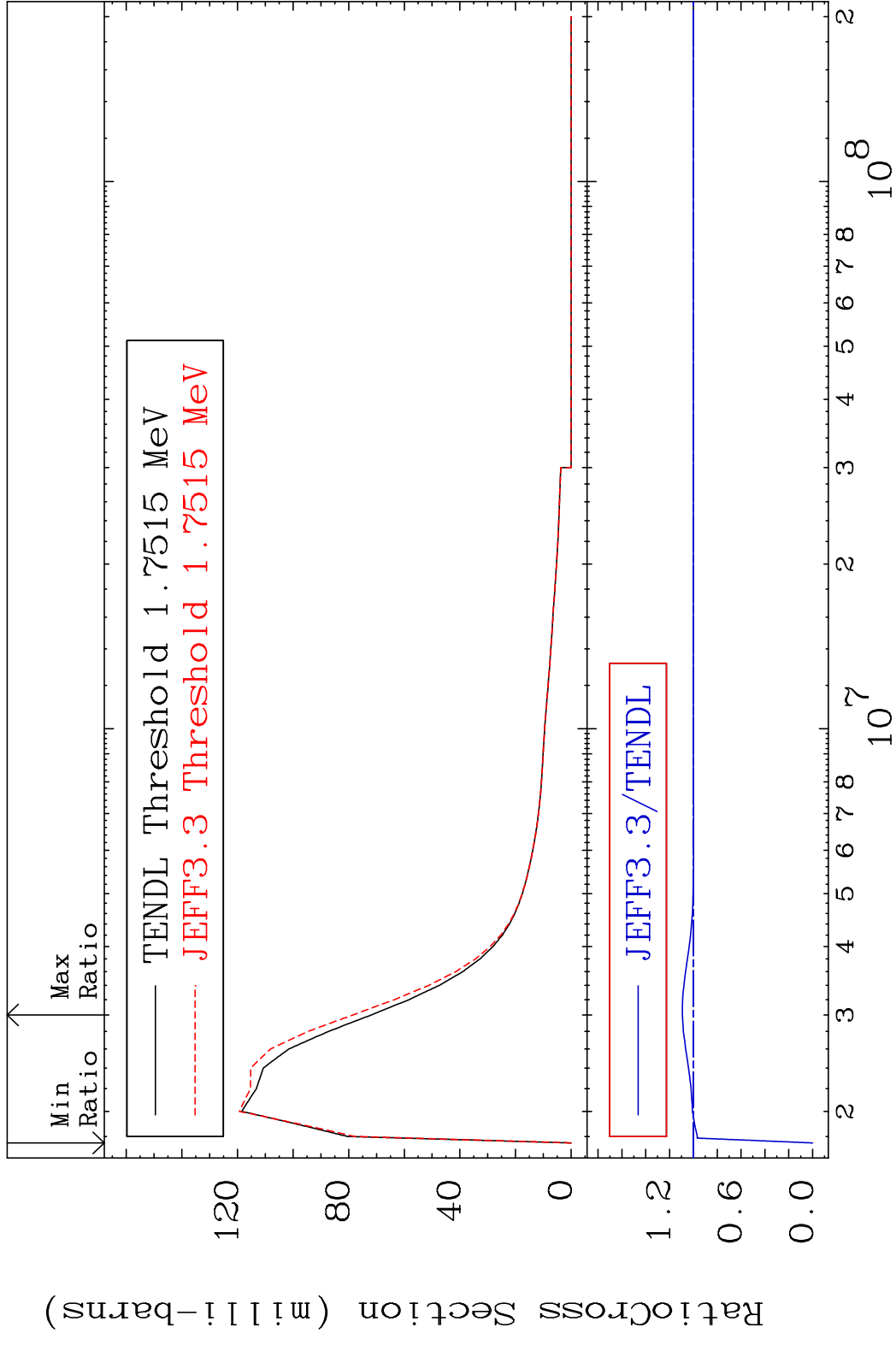


MAT 6028 MT= 61 (n,n') Level 60-Nd-143
 Cross Section -100.0 To 7.999 %

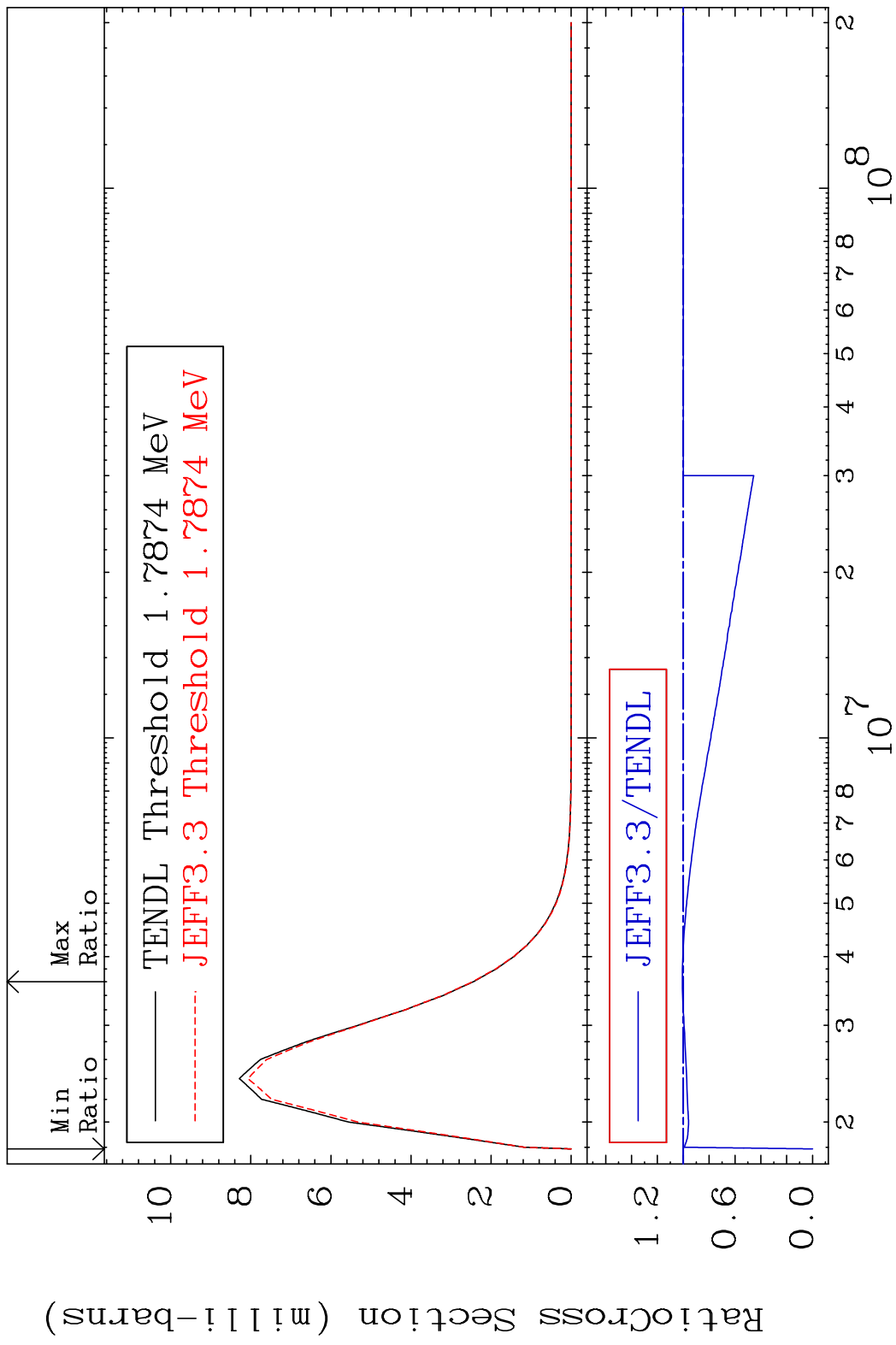


30 Incident Energy (eV) 60-Nd-143

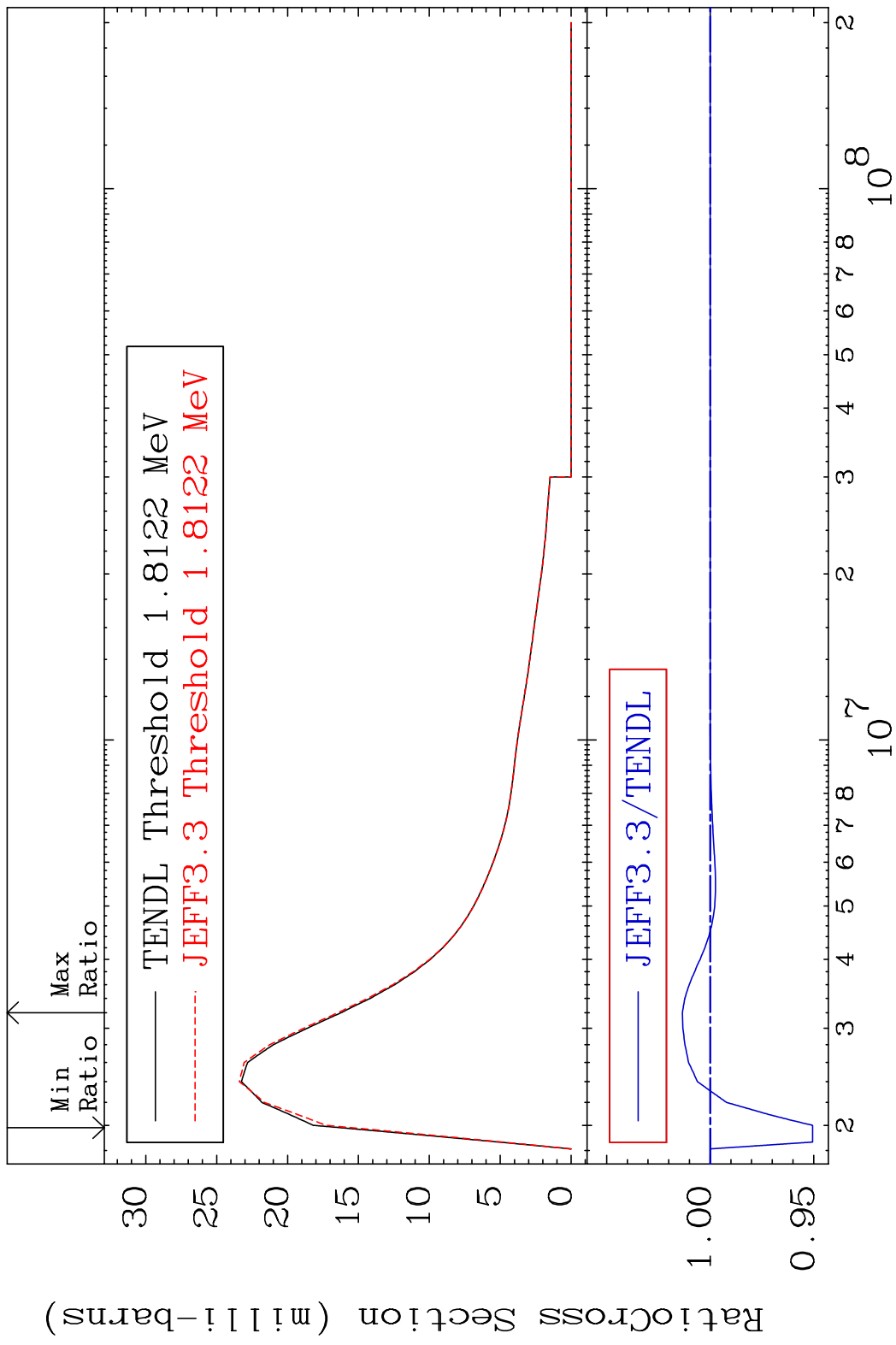
MAT 6028 MT= 62 (n, n') Level 60-Nd-143
 Cross Section -100.0 To 9.245 %



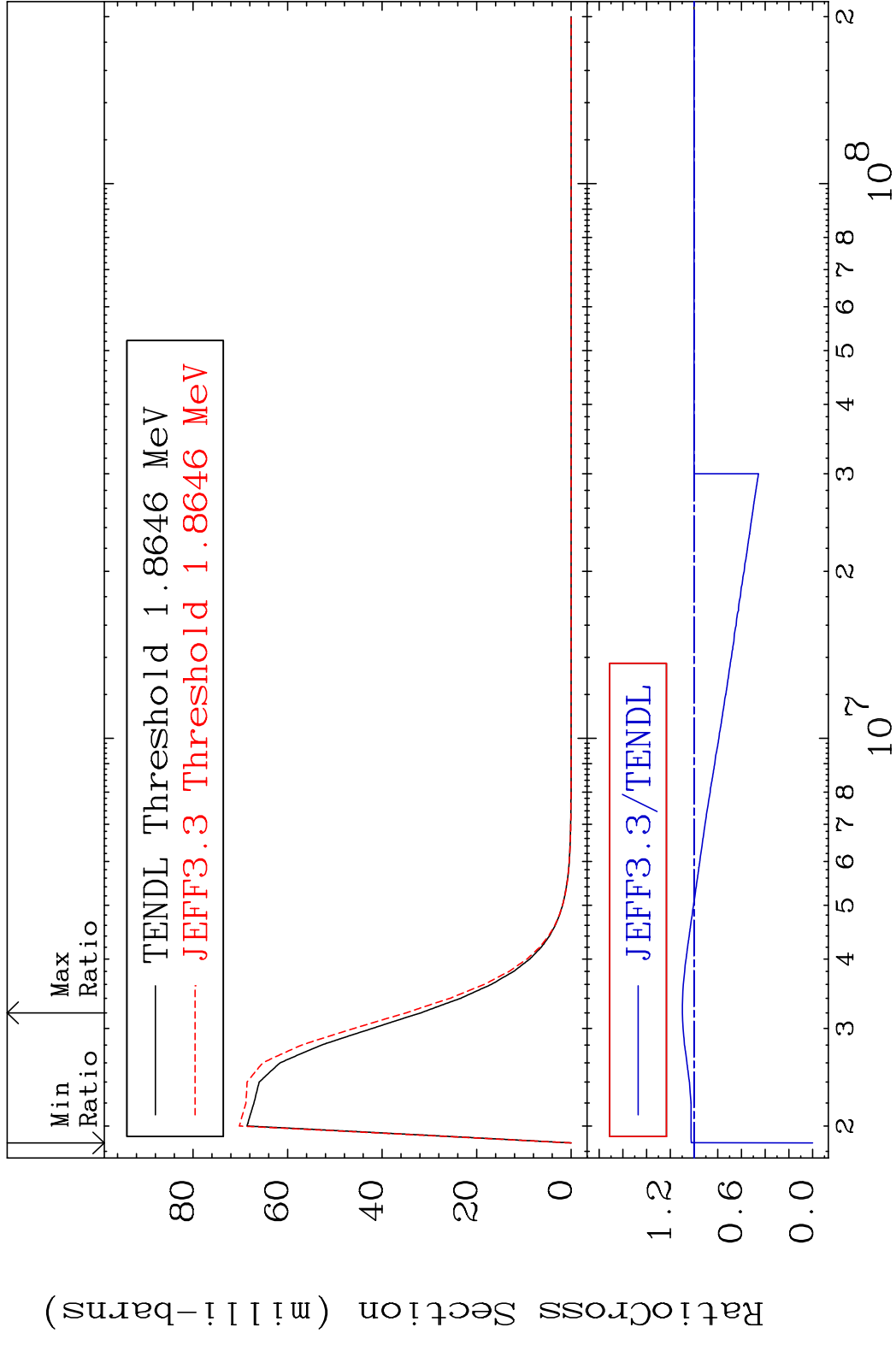
MAT 6028 MT= 63 (n, n') Level 60-Nd-143
 Cross Section -100.0 To 0.704 %



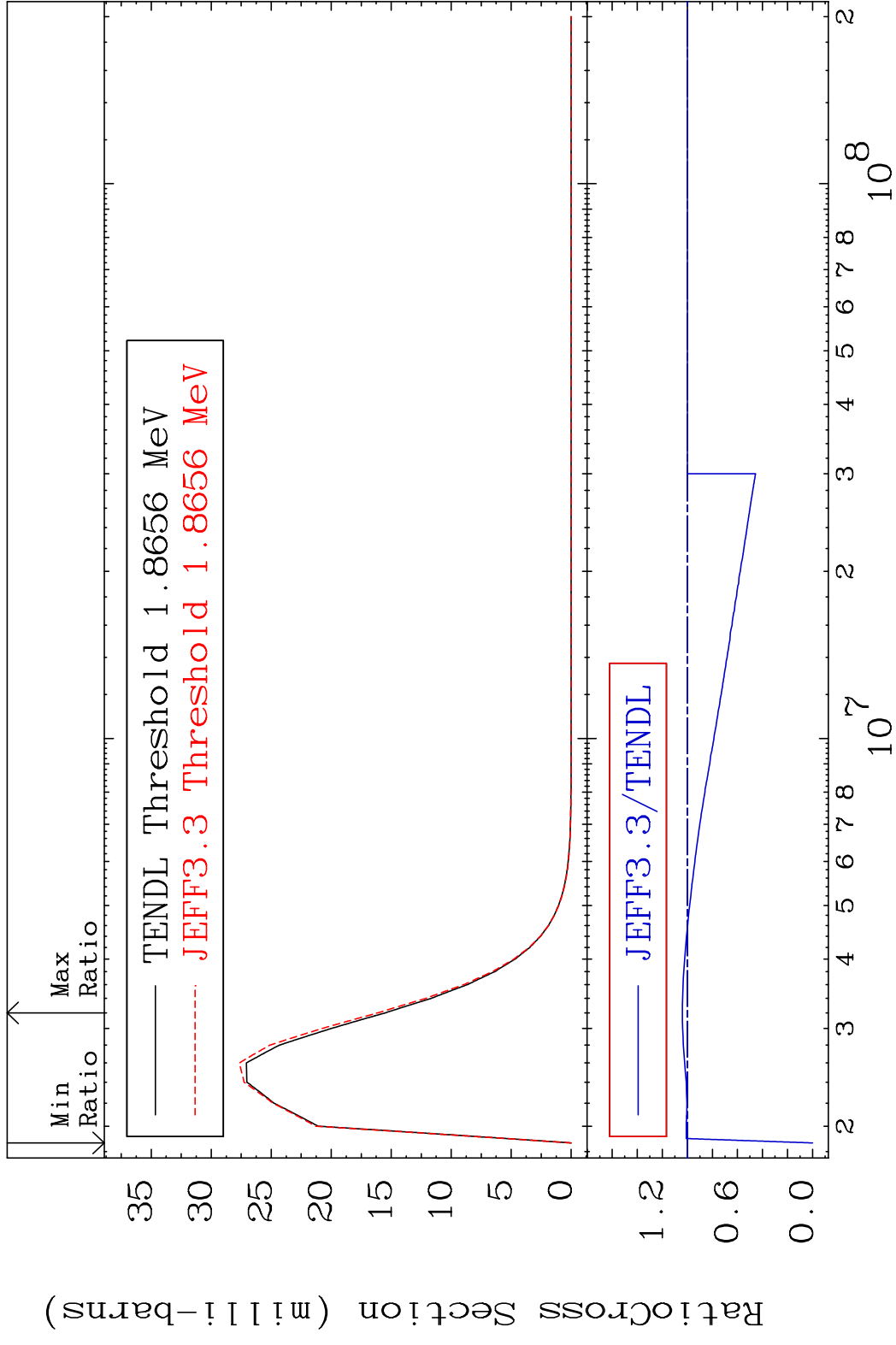
MAT 6028 MT= 64 (n,n') Level 60-Nd-143
 Cross Section -4.945 To 1.343 %



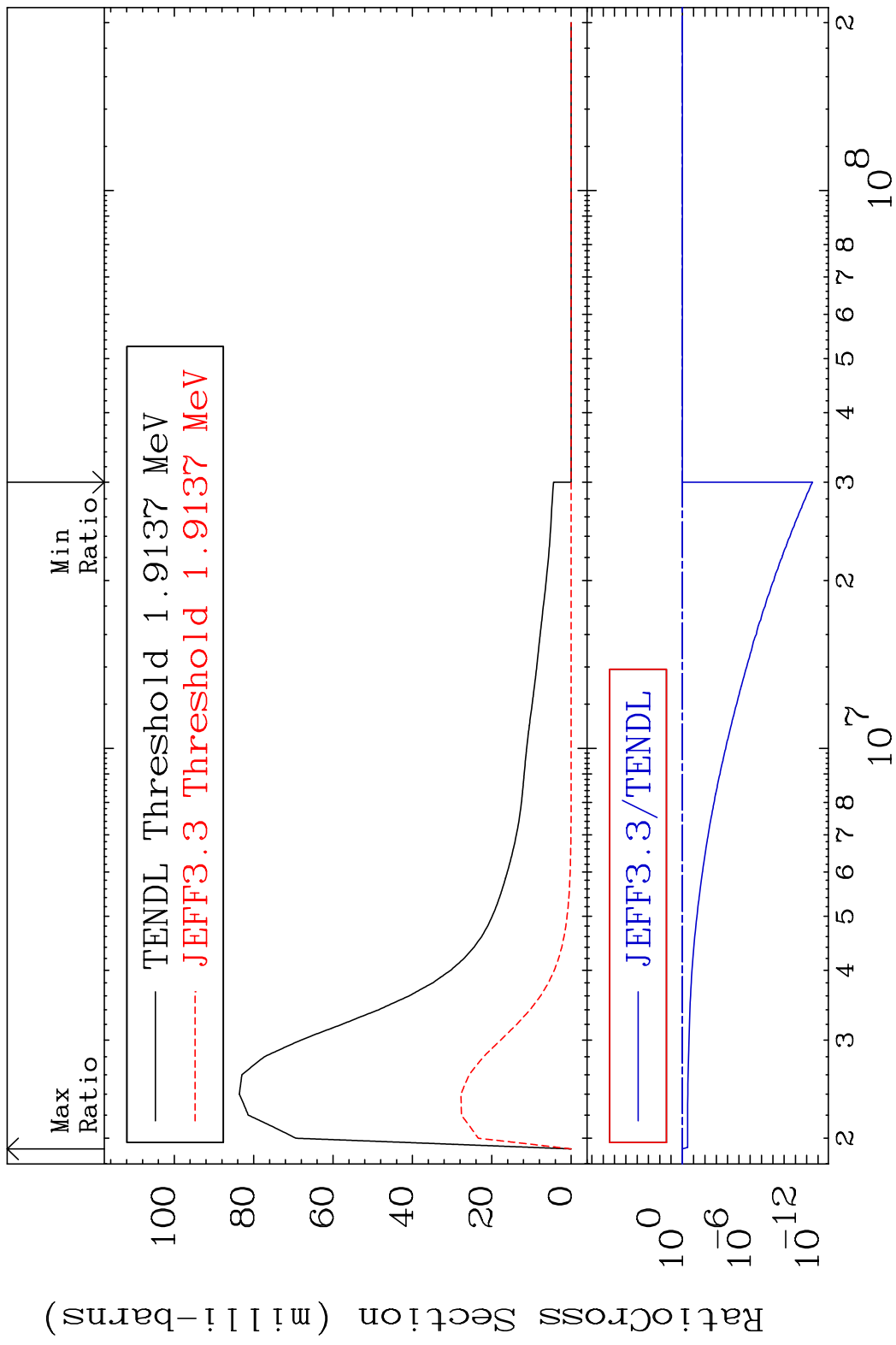
MAT 6028 MT= 65 (n,n') Level 60-Nd-143
 Cross Section -100.0 To 9.785 %



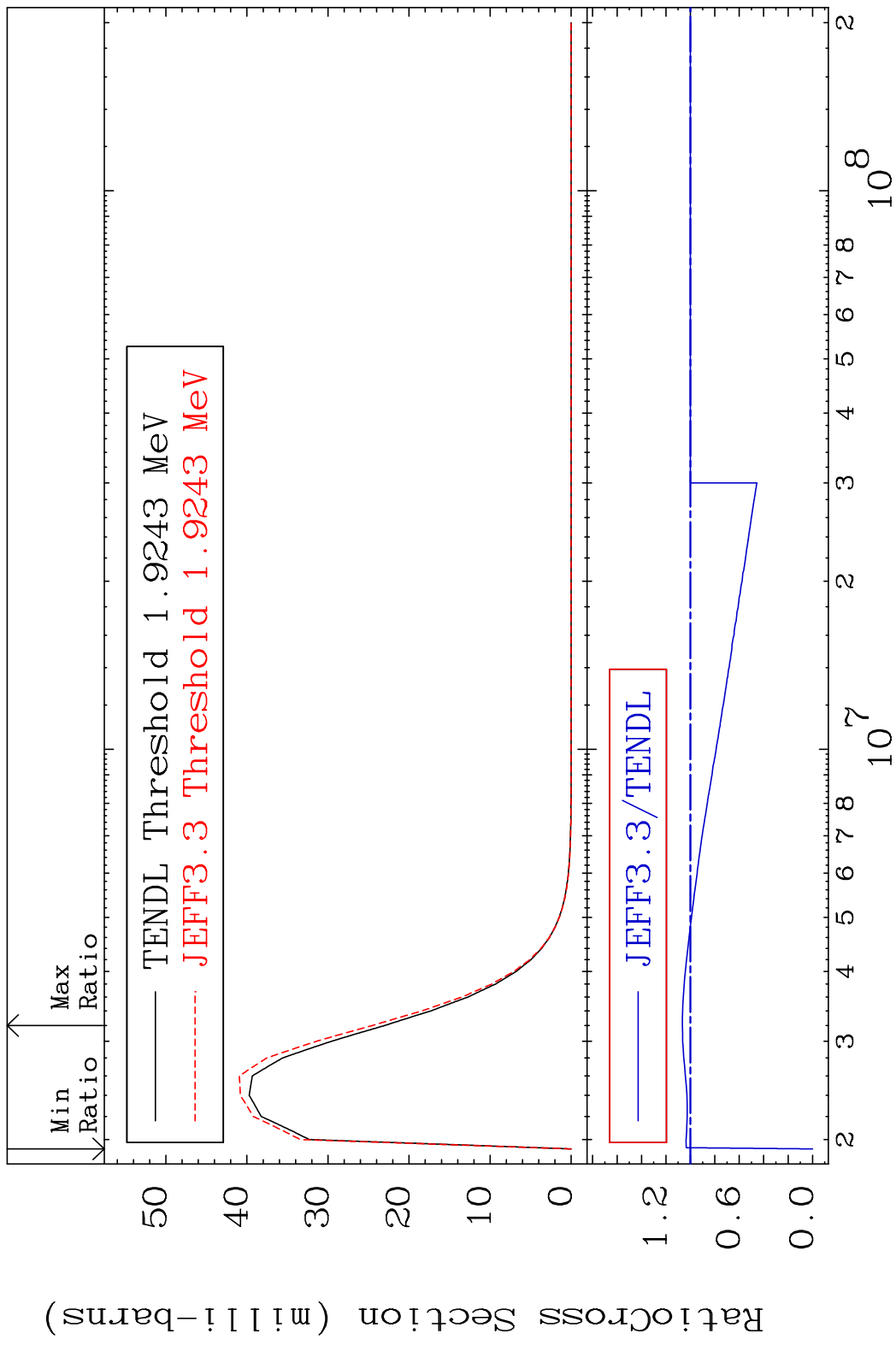
MAT 6028 MT= 66 (n, n') Level 60-Nd-143
 Cross Section -100.0 To 4.002 %



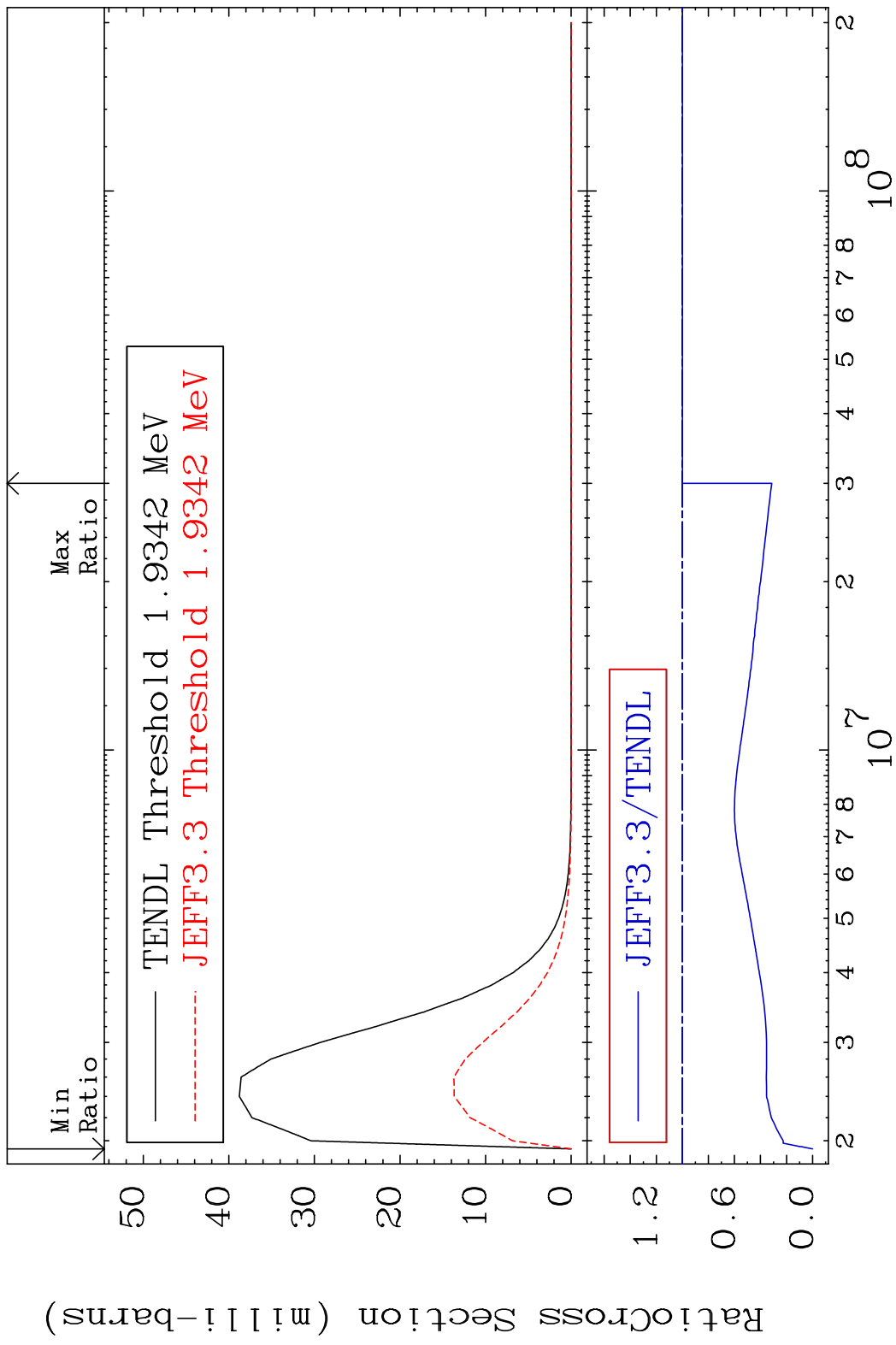
MAT 6028 MT= 67 (n, n') Level 60-Nd-143
 Cross Section -100.0 To 0.000 %



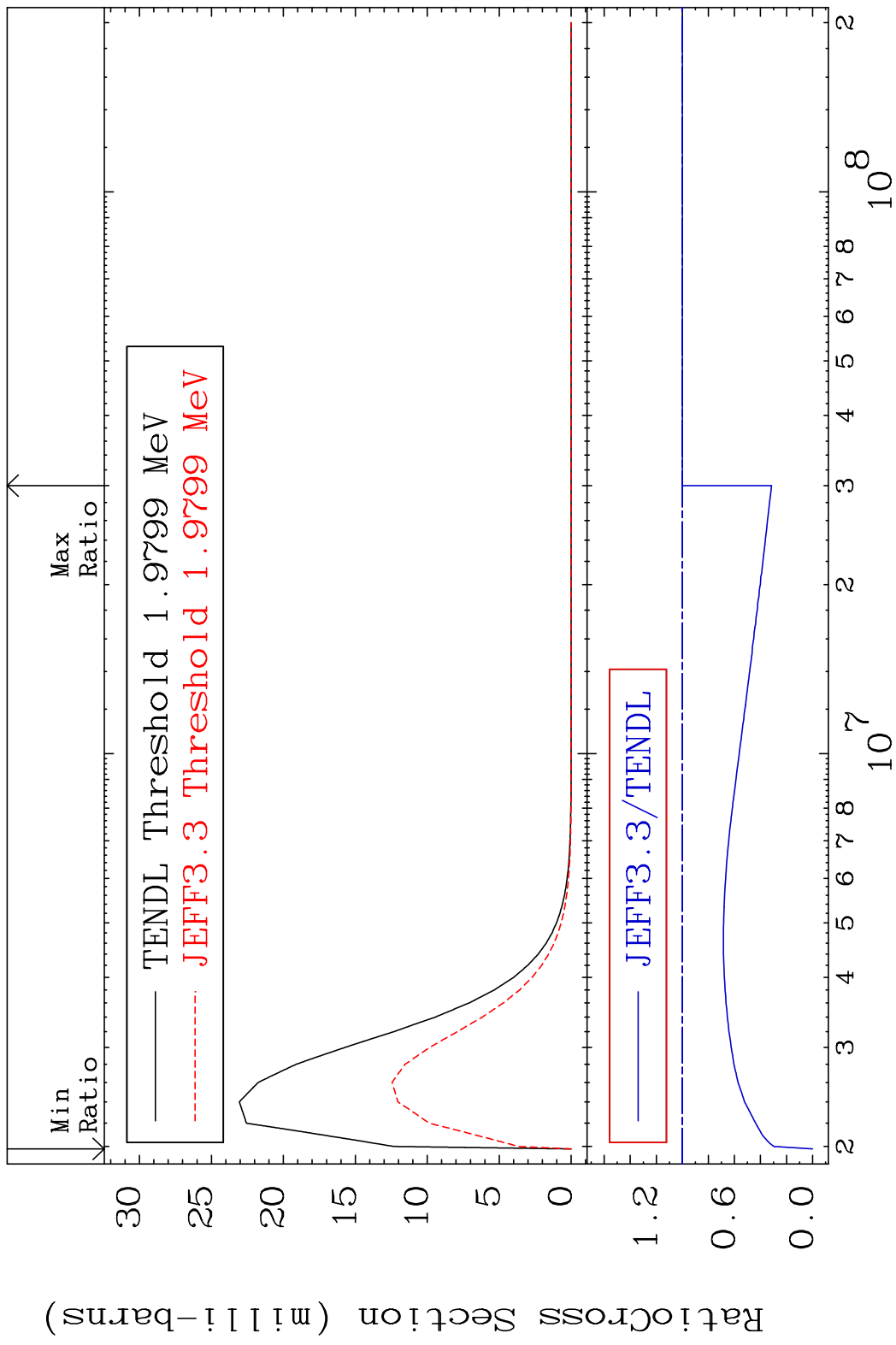
MAT 6028 MT= 68 (n, n') Level 60-Nd-143
 Cross Section -100.0 To 6.560 %



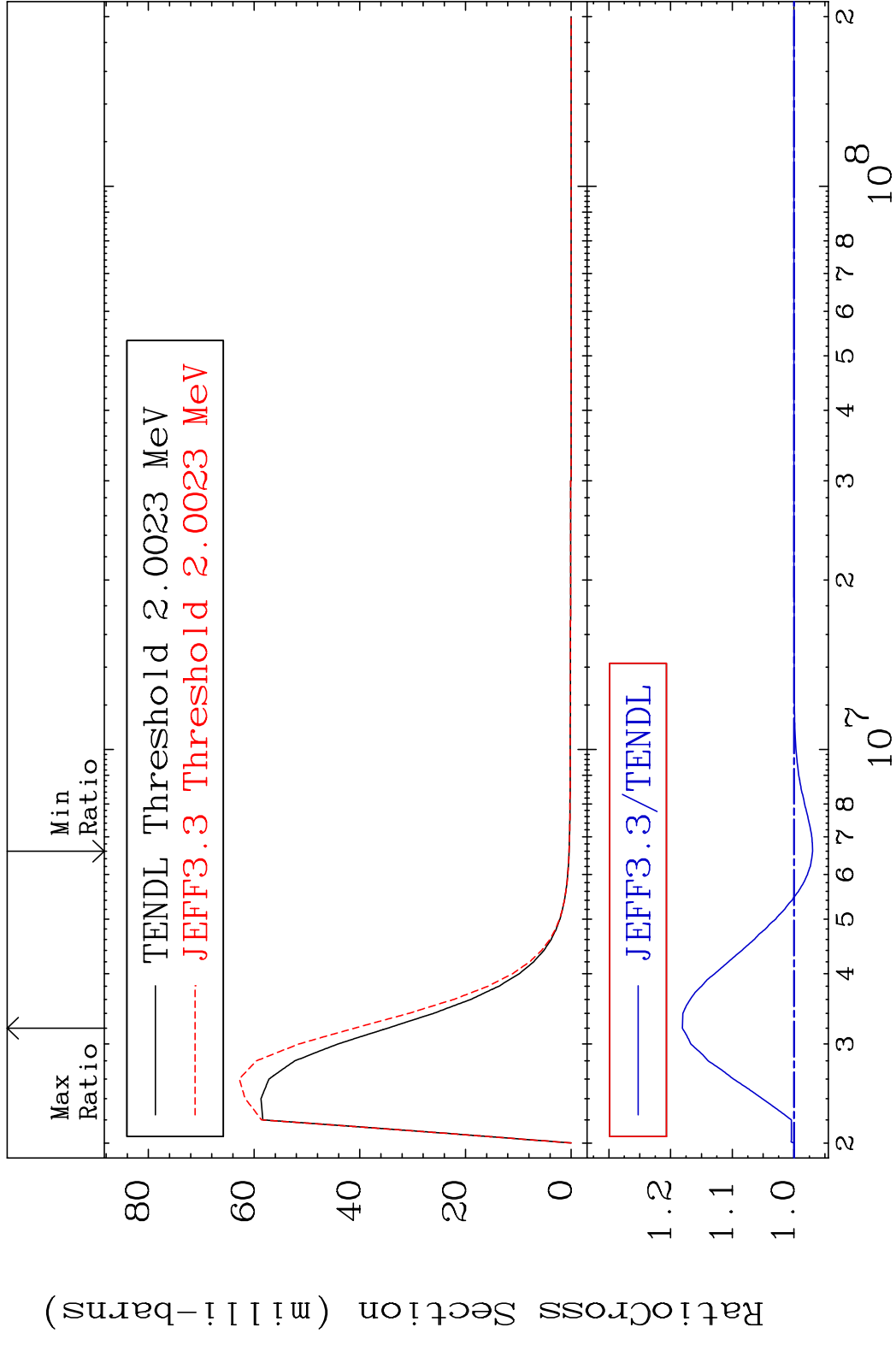
MAT 6028 MT= 69 (n, n') Level 60-Nd-143
 Cross Section -100.0 To 0.000 %



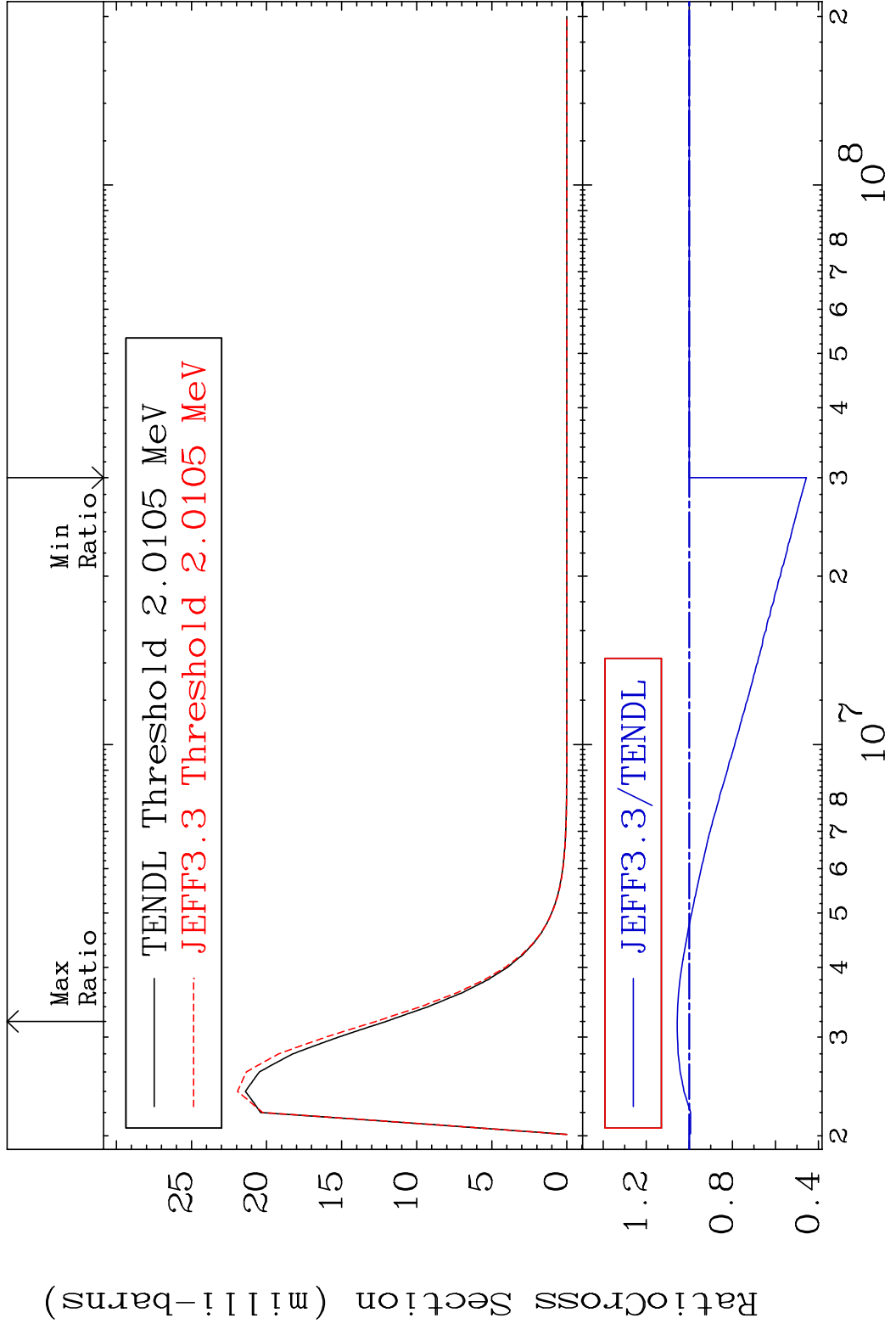
MAT 6028 MT= 70 (n, n') Level 60-Nd-143
 Cross Section -100.0 To 0.000 %



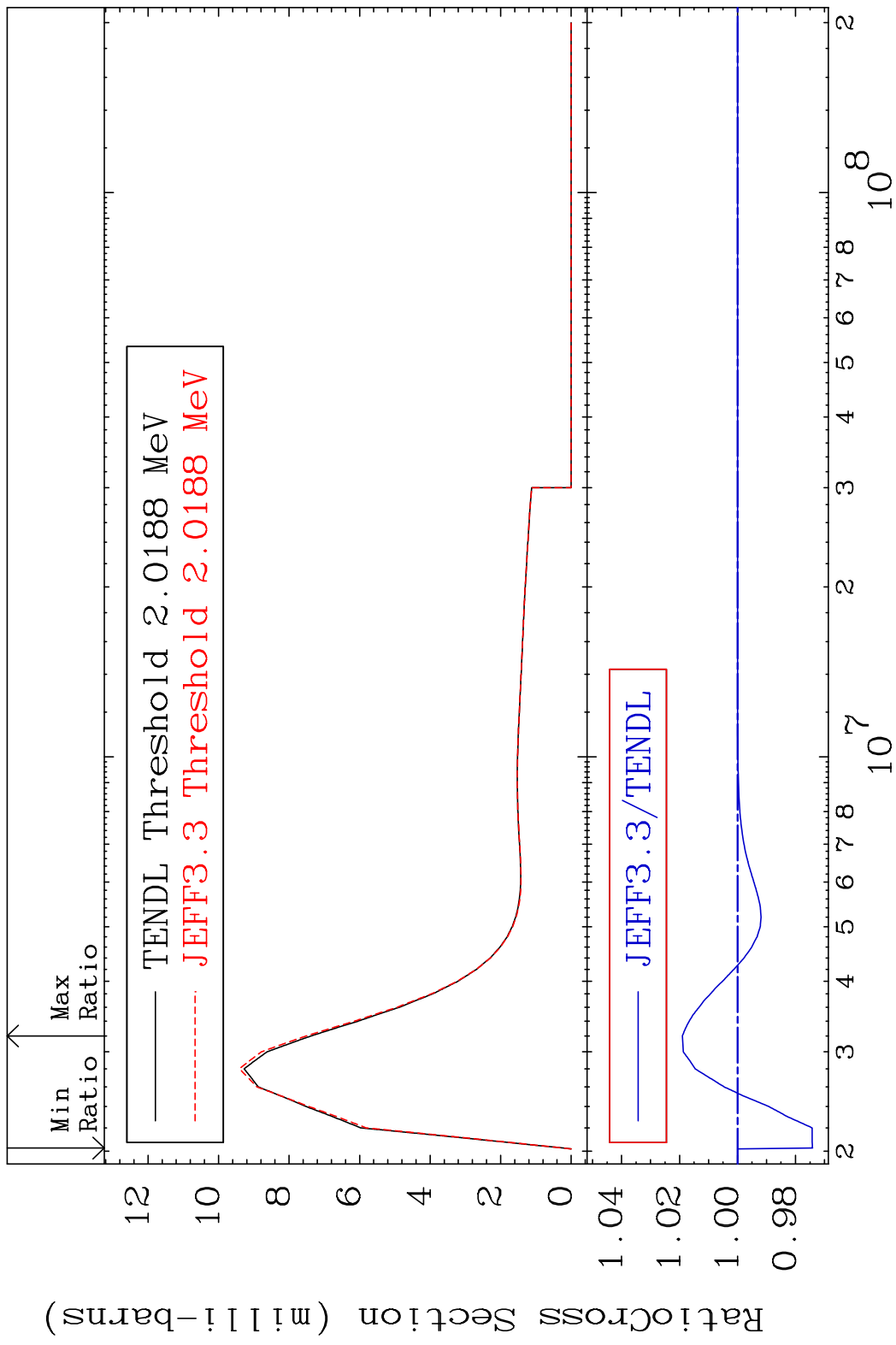
MAT 6028 MT= 71 (n, n') Level 60-Nd-143
 Cross Section -3.004 To 18.09 %



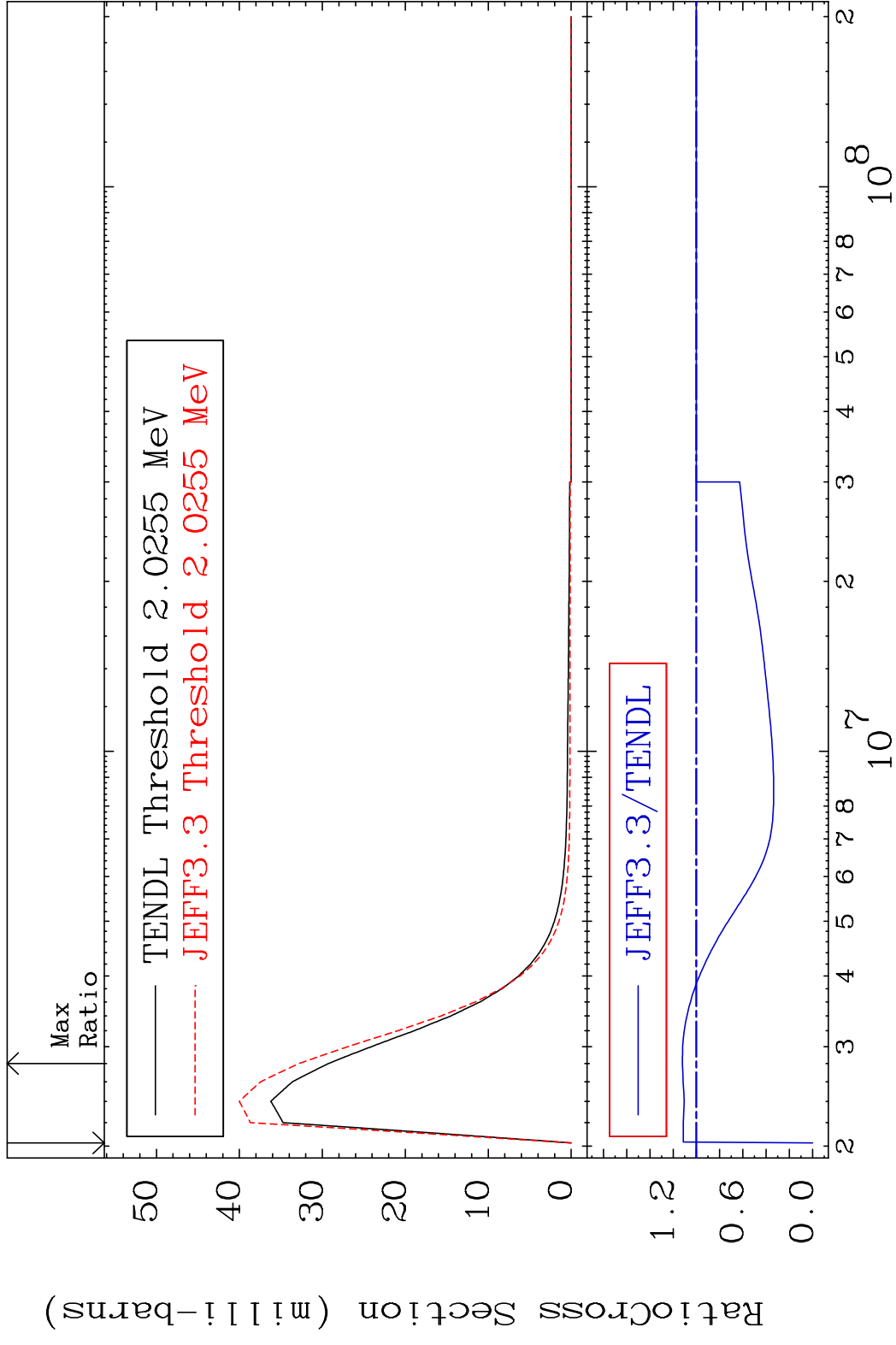
MAT 6028 MT= 72 (n, n') Level 60-Nd-143
 Cross Section -54.43 To 5.638 %



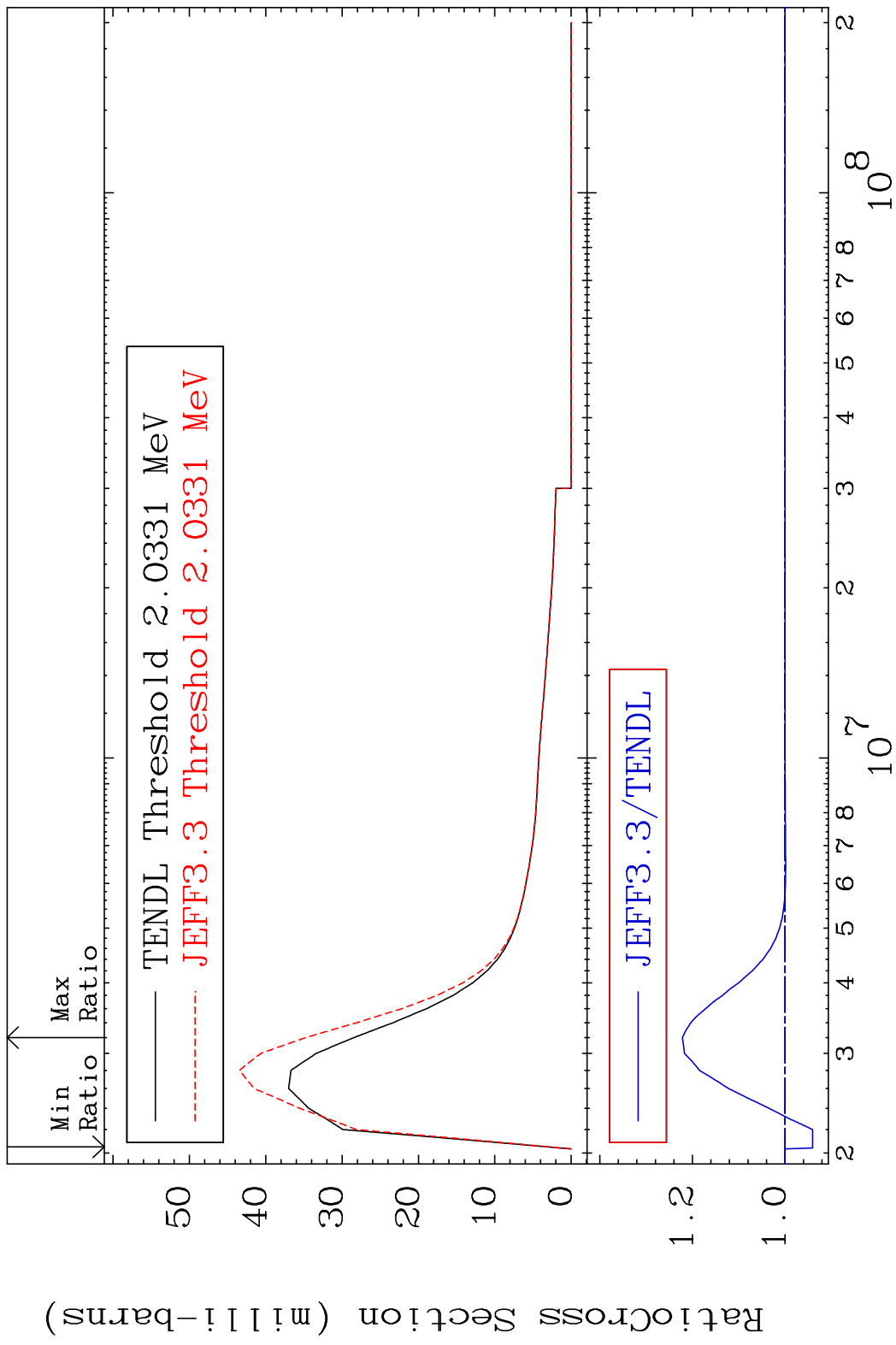
MAT 6028 MT= 73 (n, n') Level 60-Nd-143
 Cross Section -2.588 To 1.903 %



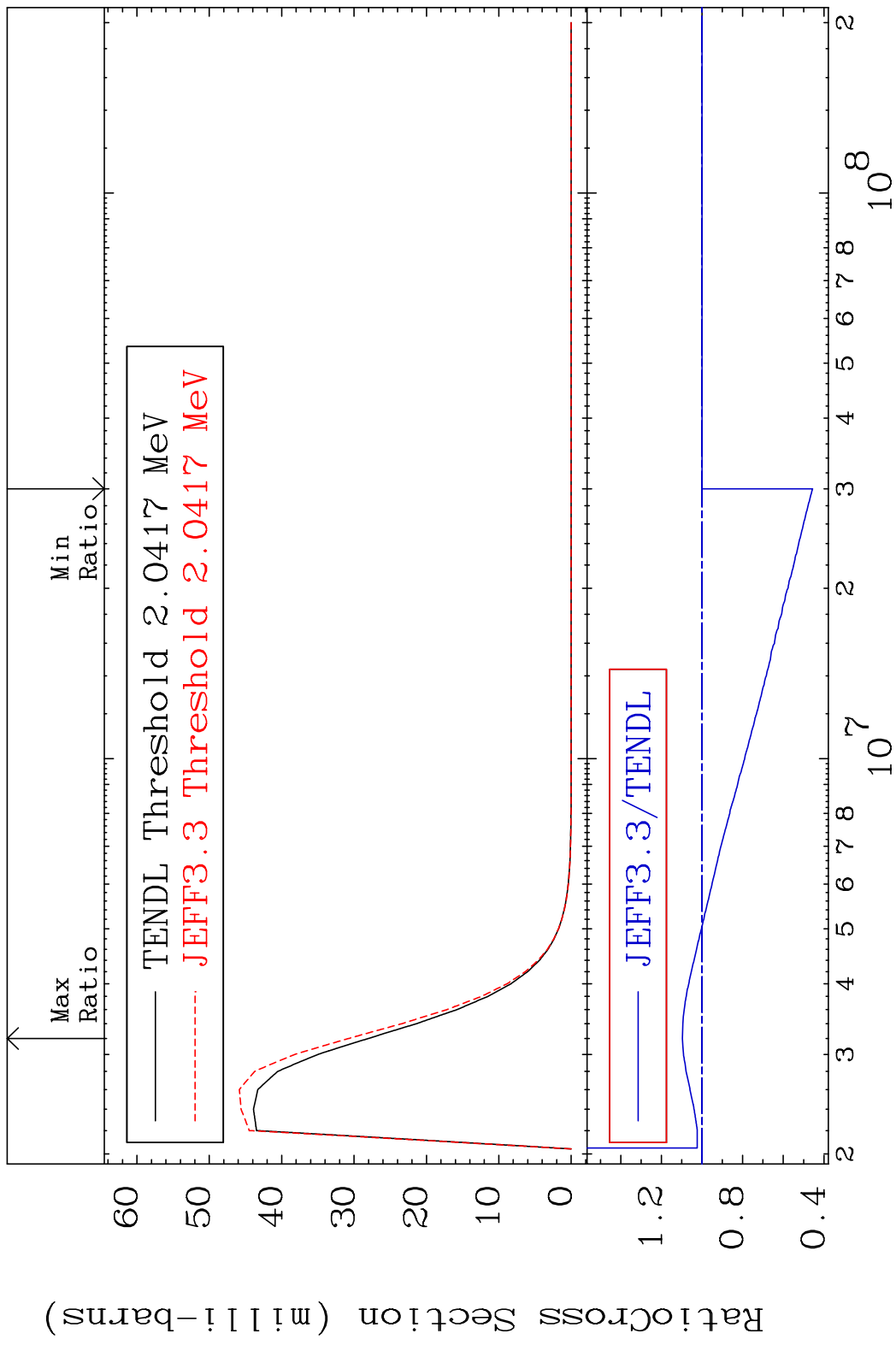
MAT 6028 MT= 74 (n, n') Level 60-Nd-143
 Cross Section -100.0 To 12.09 %



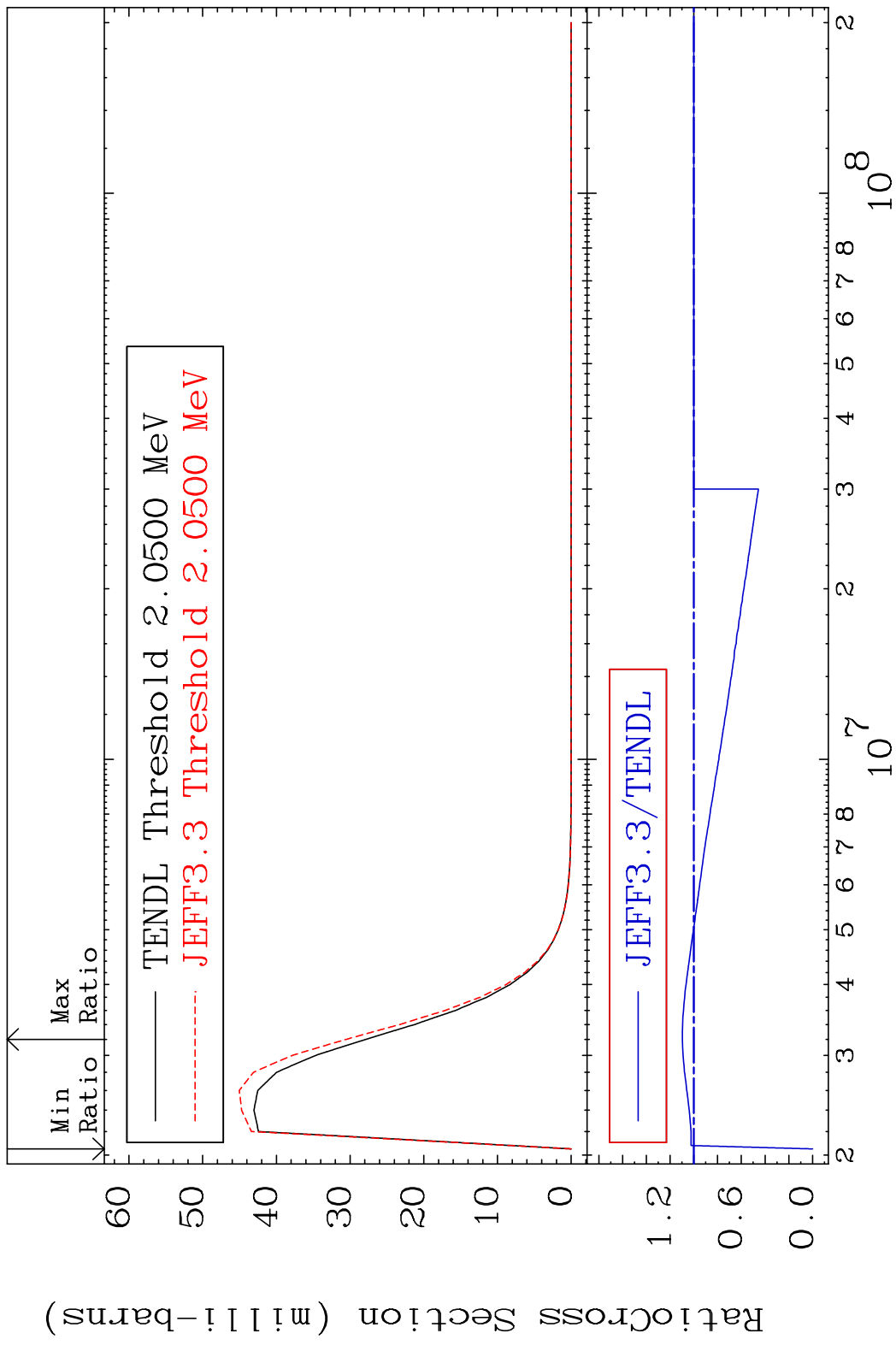
MAT 6028 MT= 75 (n, n') Level 60-Nd-143
 Cross Section -5.950 To 22.17 %



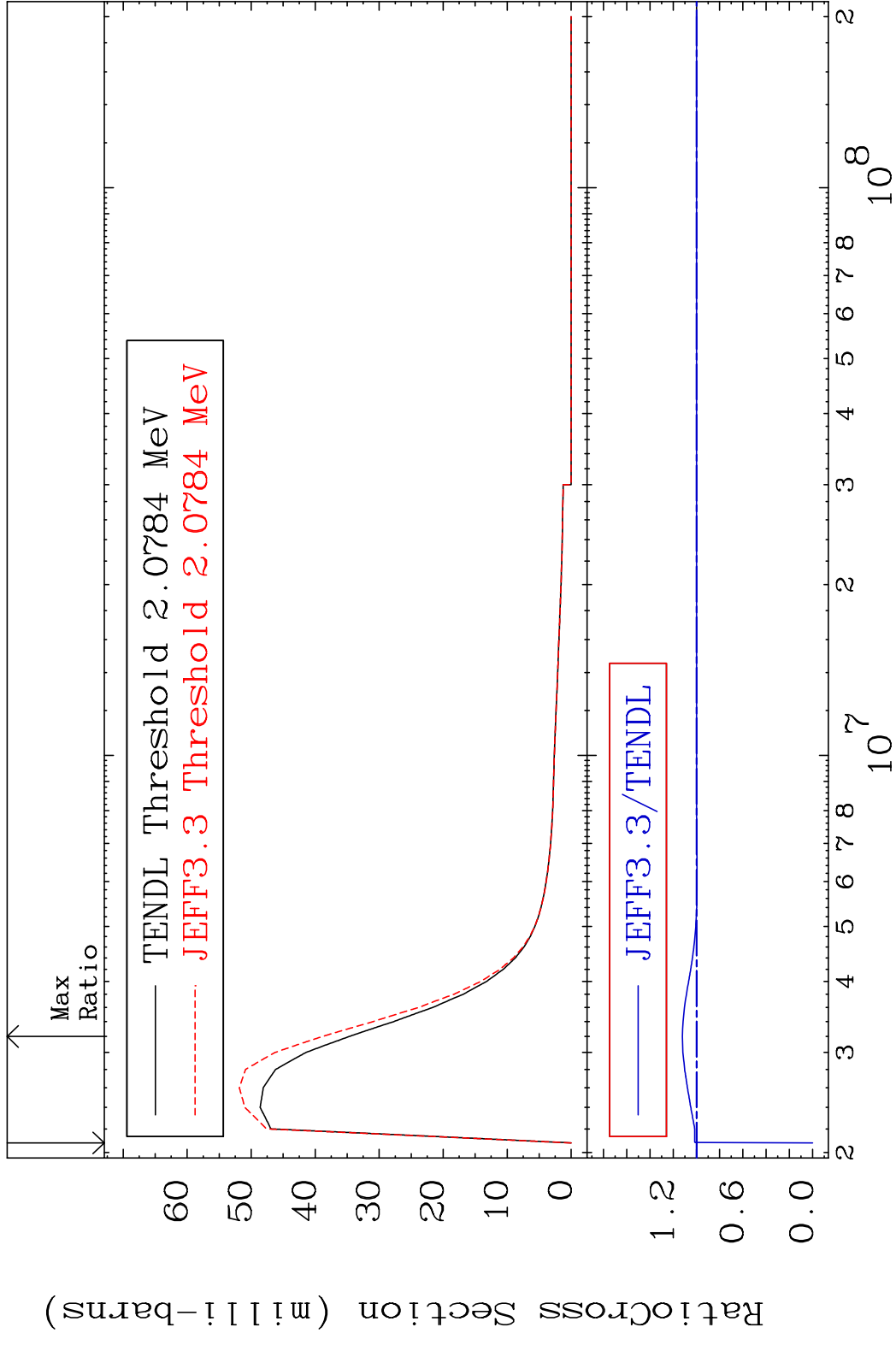
MAT 6028 MT= 76 (n, n') Level 60-Nd-143
 Cross Section -54.40 To 9.681 %



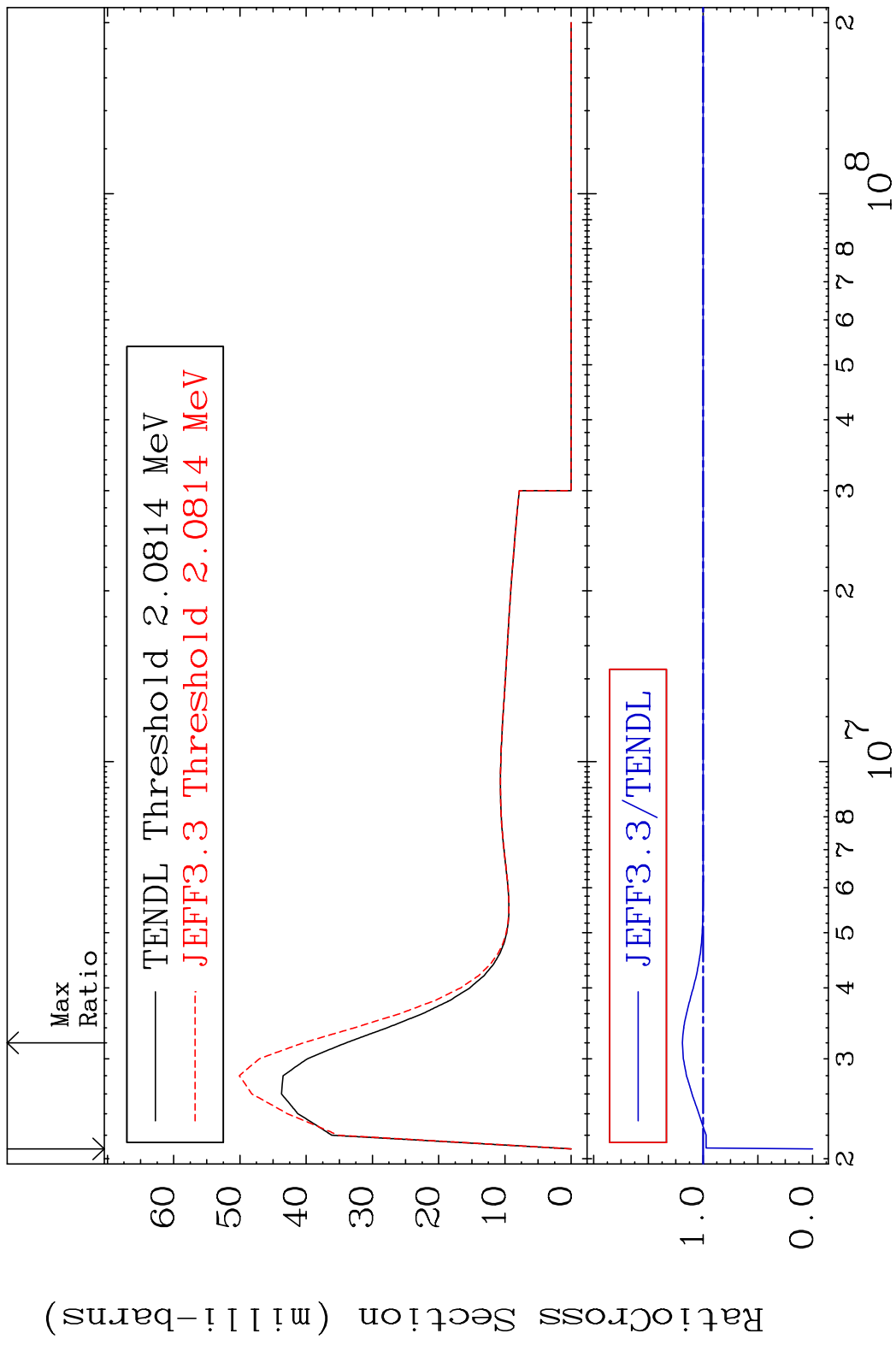
MAT 6028 MT= 77 (n, n') Level 60-Nd-143
 Cross Section -100.0 To 9.676 %



MAT 6028 MT= 78 (n, n') Level 60-Nd-143
 Cross Section -100.0 To 12.14 %



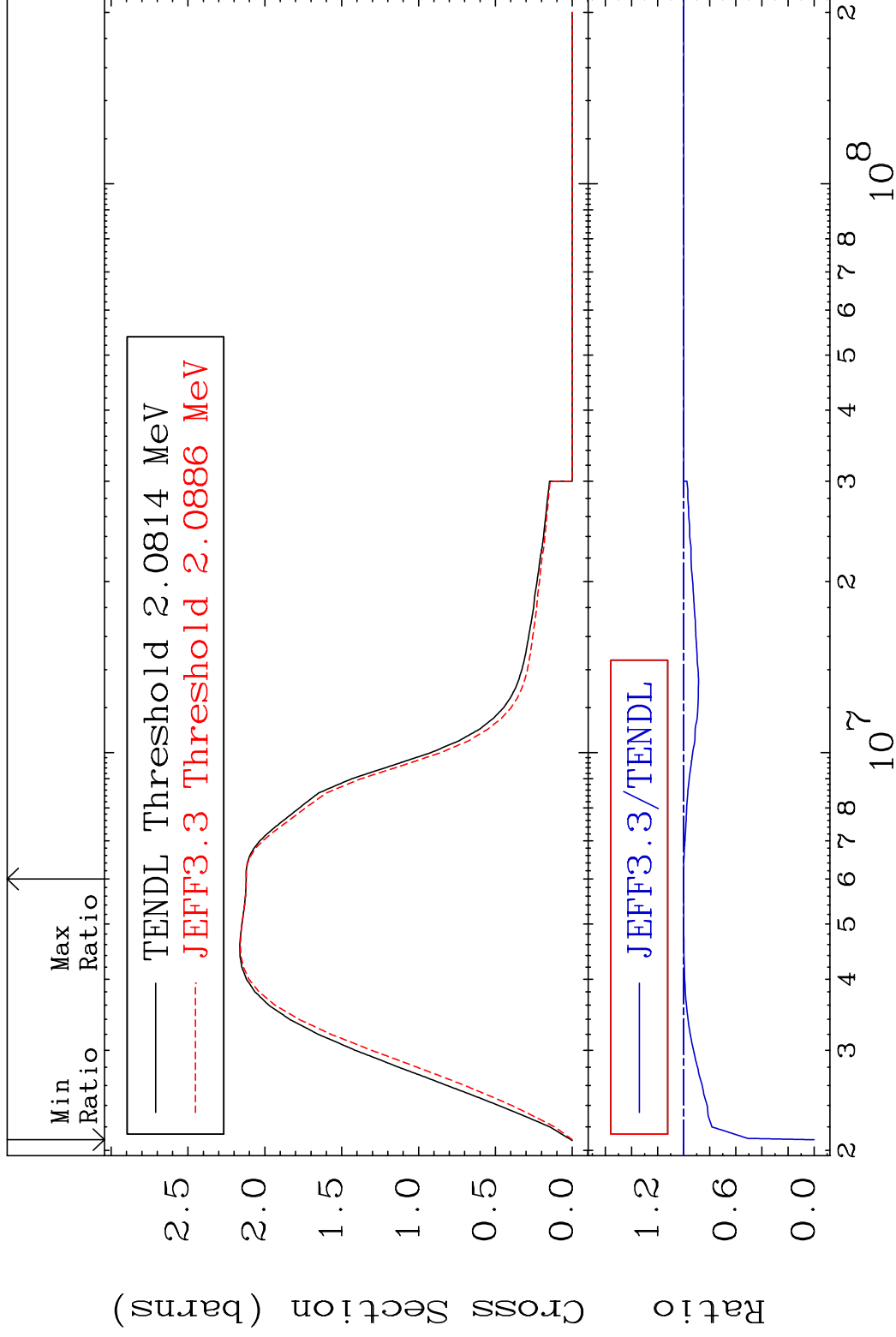
MAT 6028 MT= 79 (n,n') Level 60-Nd-143
 Cross Section -100.0 To 19.00 %



MAT 6028

(n, n') Continuum
Cross Section -100.0 To 0.019 %

60-Nd-143



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Incident Energy (eV)

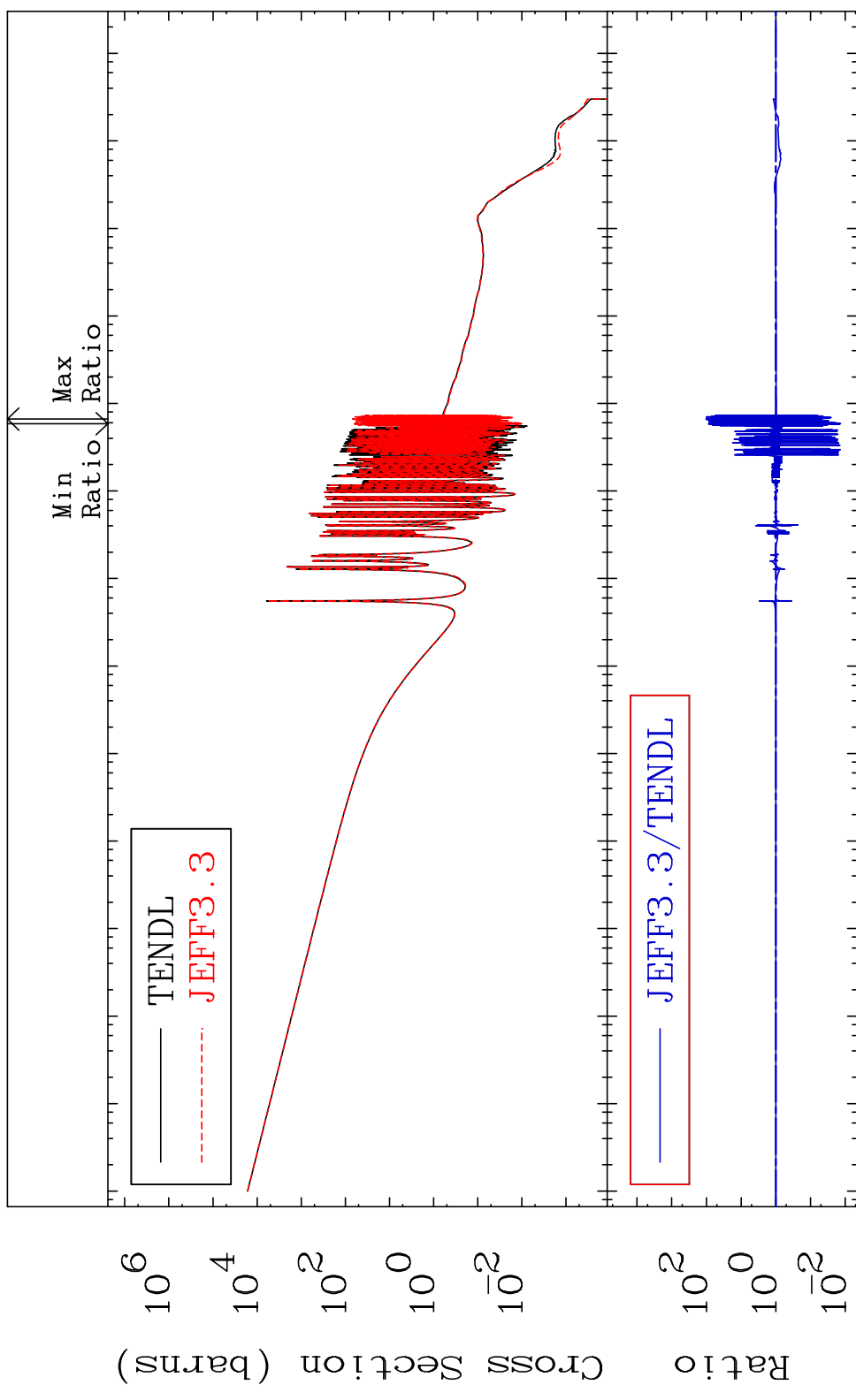
60-Nd-143

MAT 6028

(n, γ)

60-Nd-143

Cross Section -98.63 To 9999. %



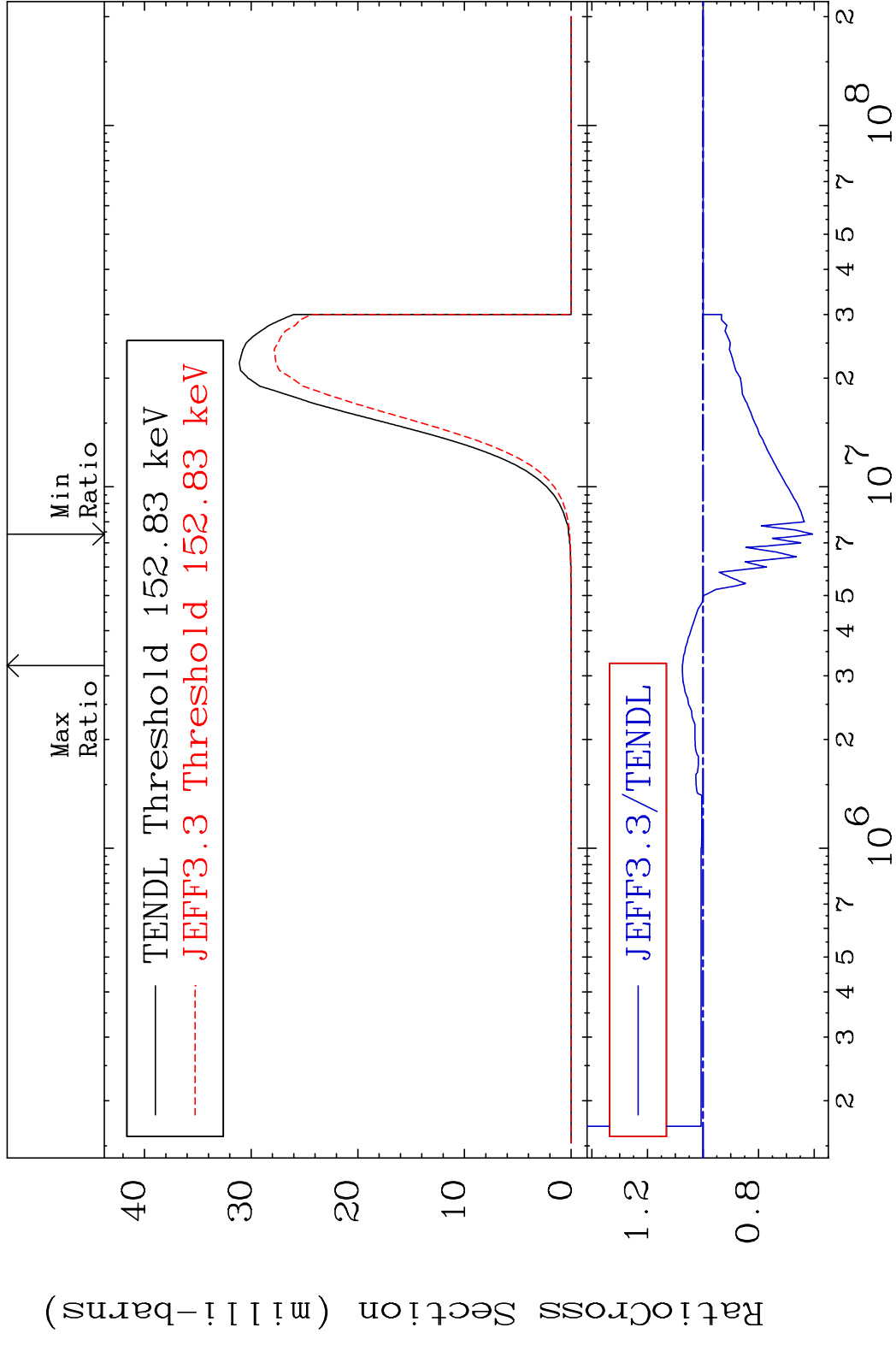
50

Incident Energy (eV)

60-Nd-143

MAT 6028

(n, p) Cross Section -39.42 To 7.445 % 60-Nd-143

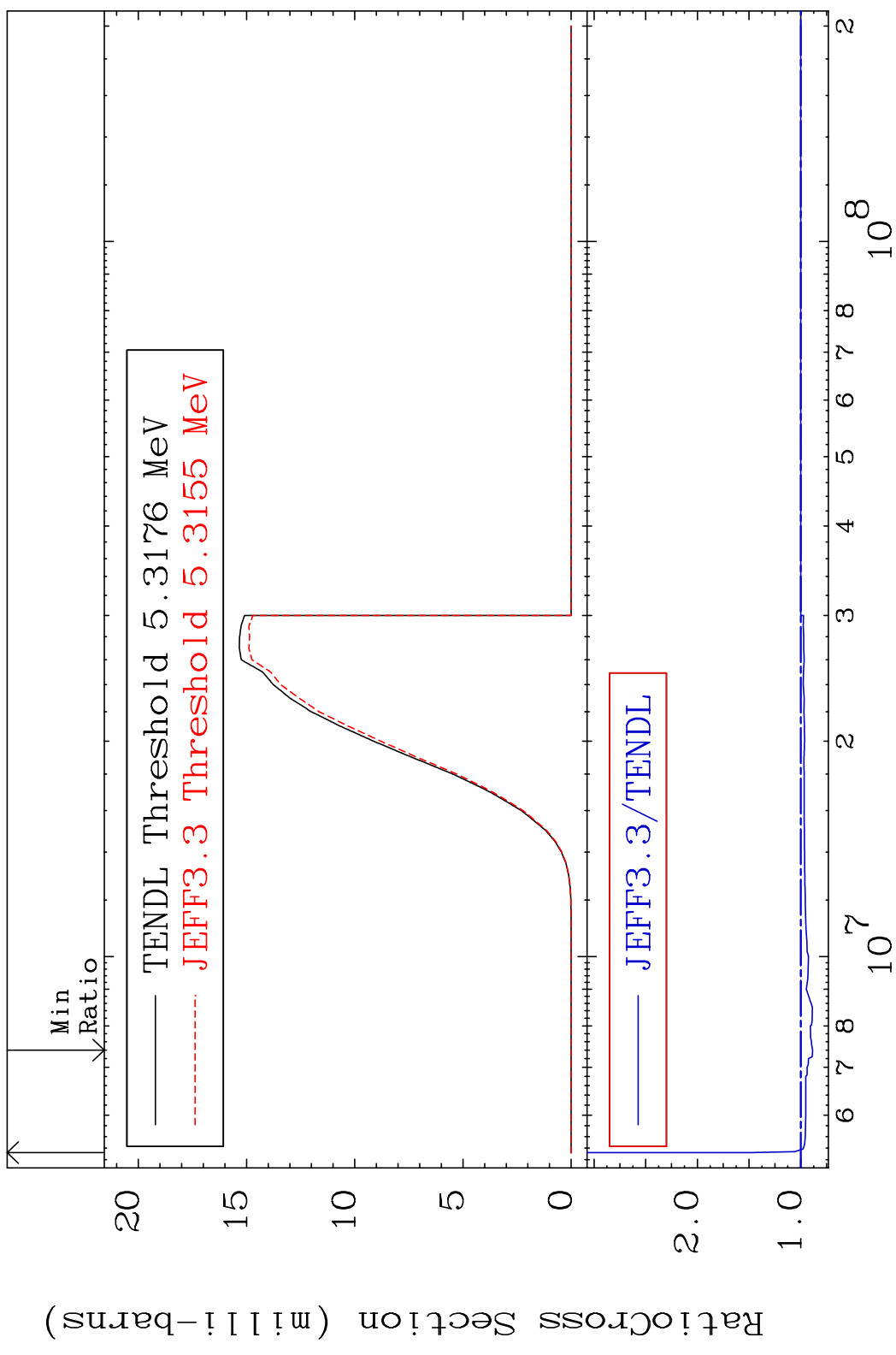


MAT 6028

(n, d)

60-Nd-143

Cross Section -11.44 To 114.5 %

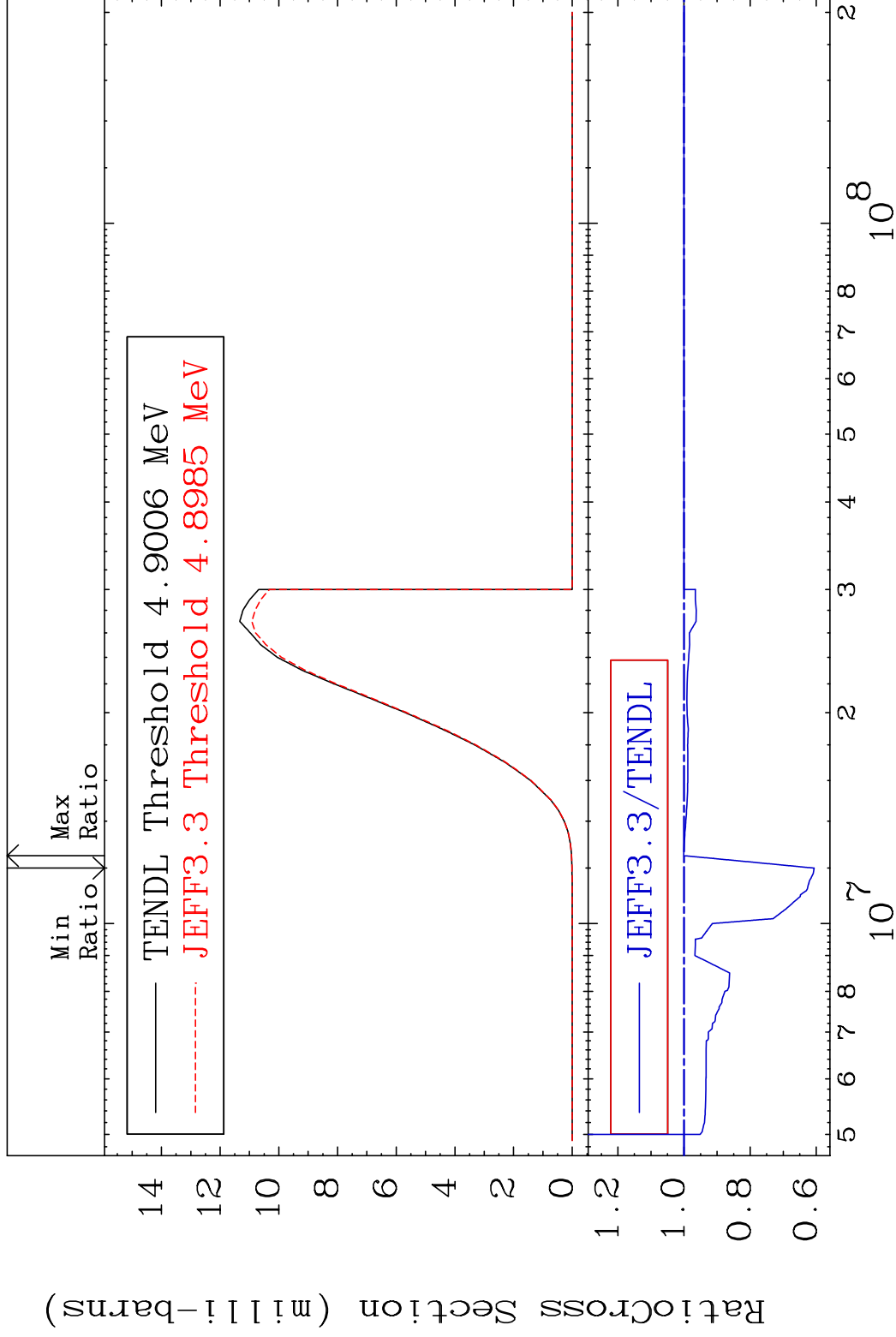


MAT 6028

(n, t)

60-Nd-143

Cross Section -39.33 To 0.108 %

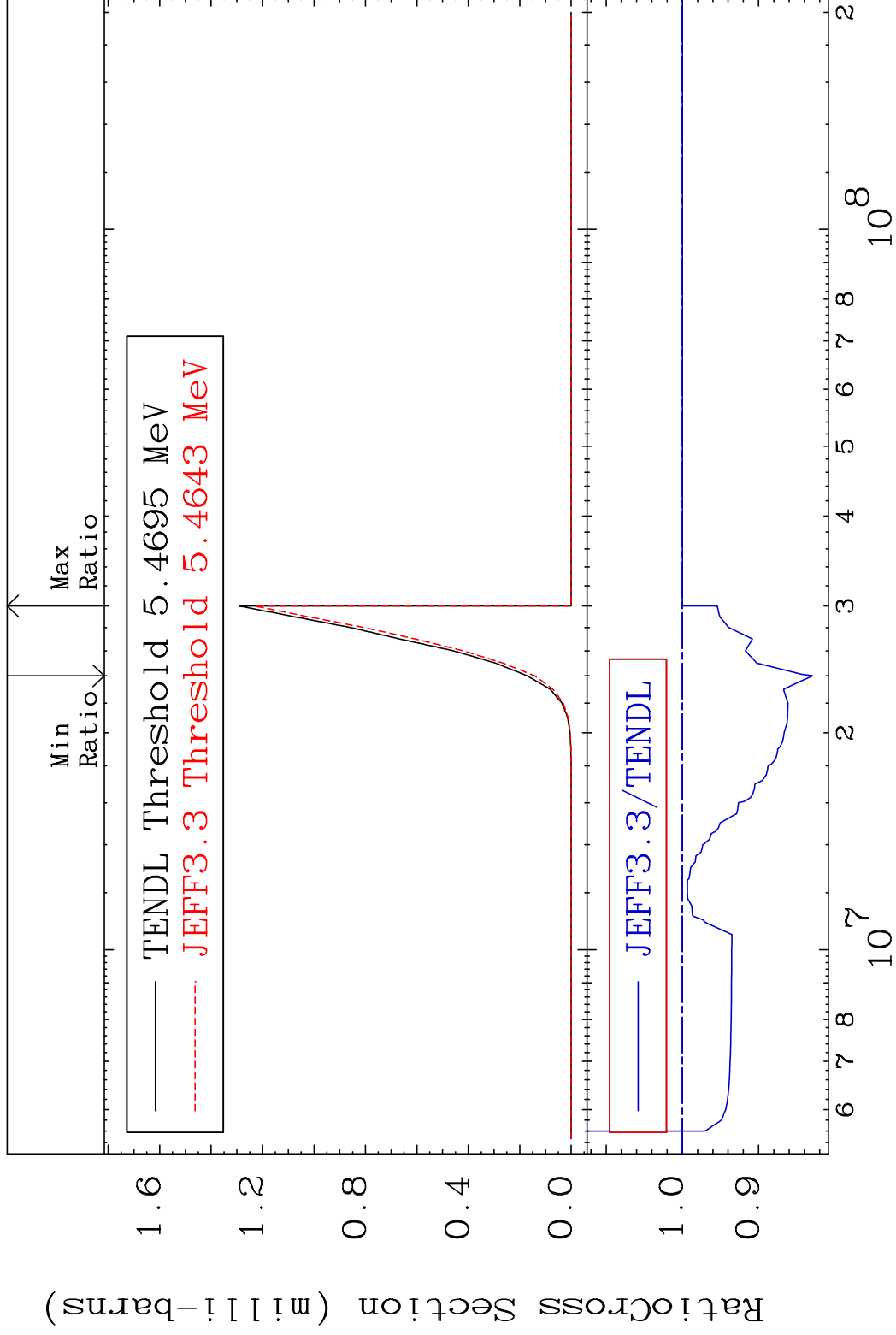


MAT 6028

(n, He-3)

60-Nd-143

Cross Section -17.08 To 0.000 %



54

Incident Energy (eV)

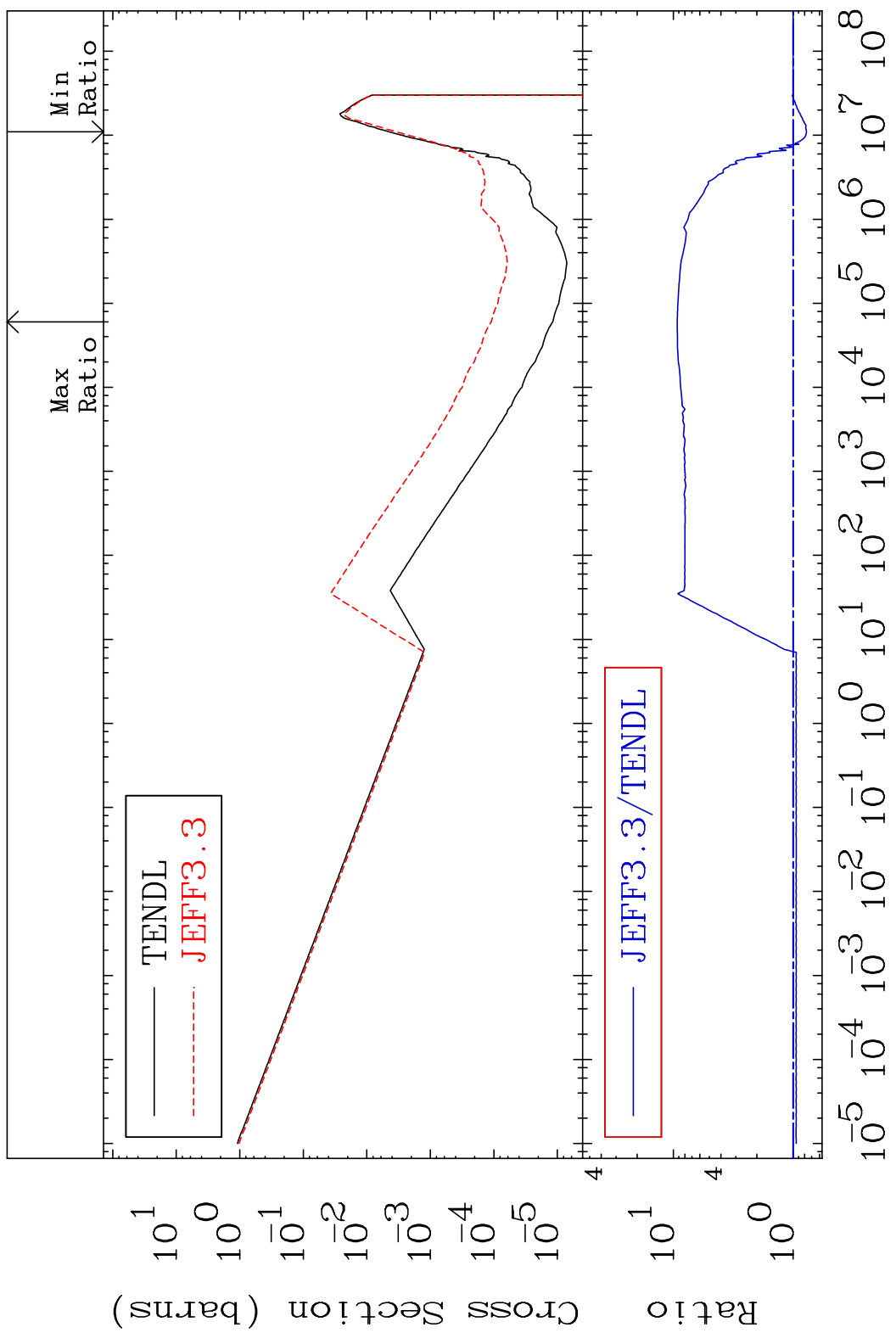
60-Nd-143

MAT 6028

(n, α)

60-Nd-143

Cross Section -22.66 To 827.5 %



55

Incident Energy (eV)

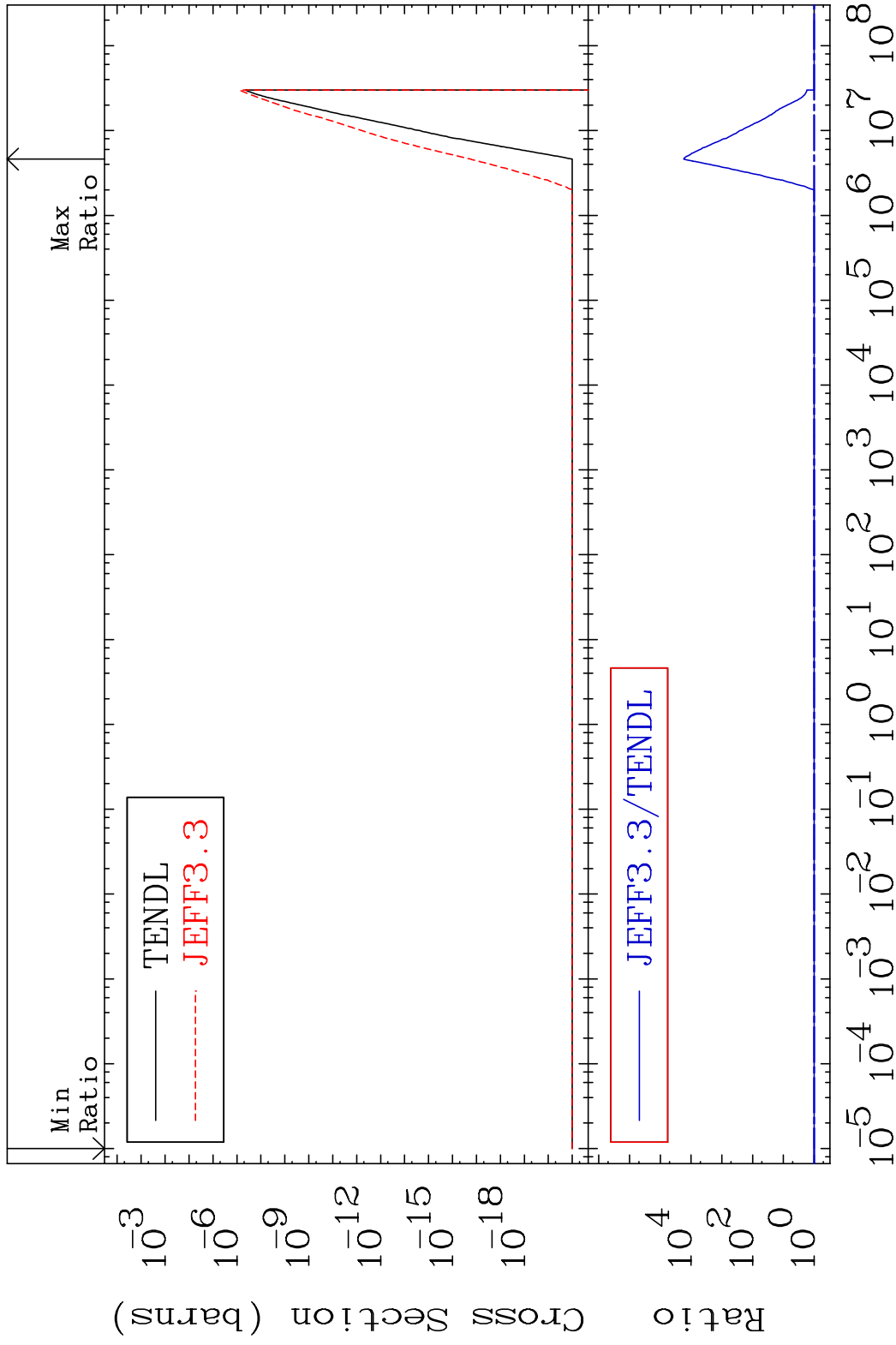
60-Nd-143

MAT 6028

(n, 2α)

60-Nd-143

Cross Section 0.000 To 9999. %



56

Incident Energy (eV)

60-Nd-143

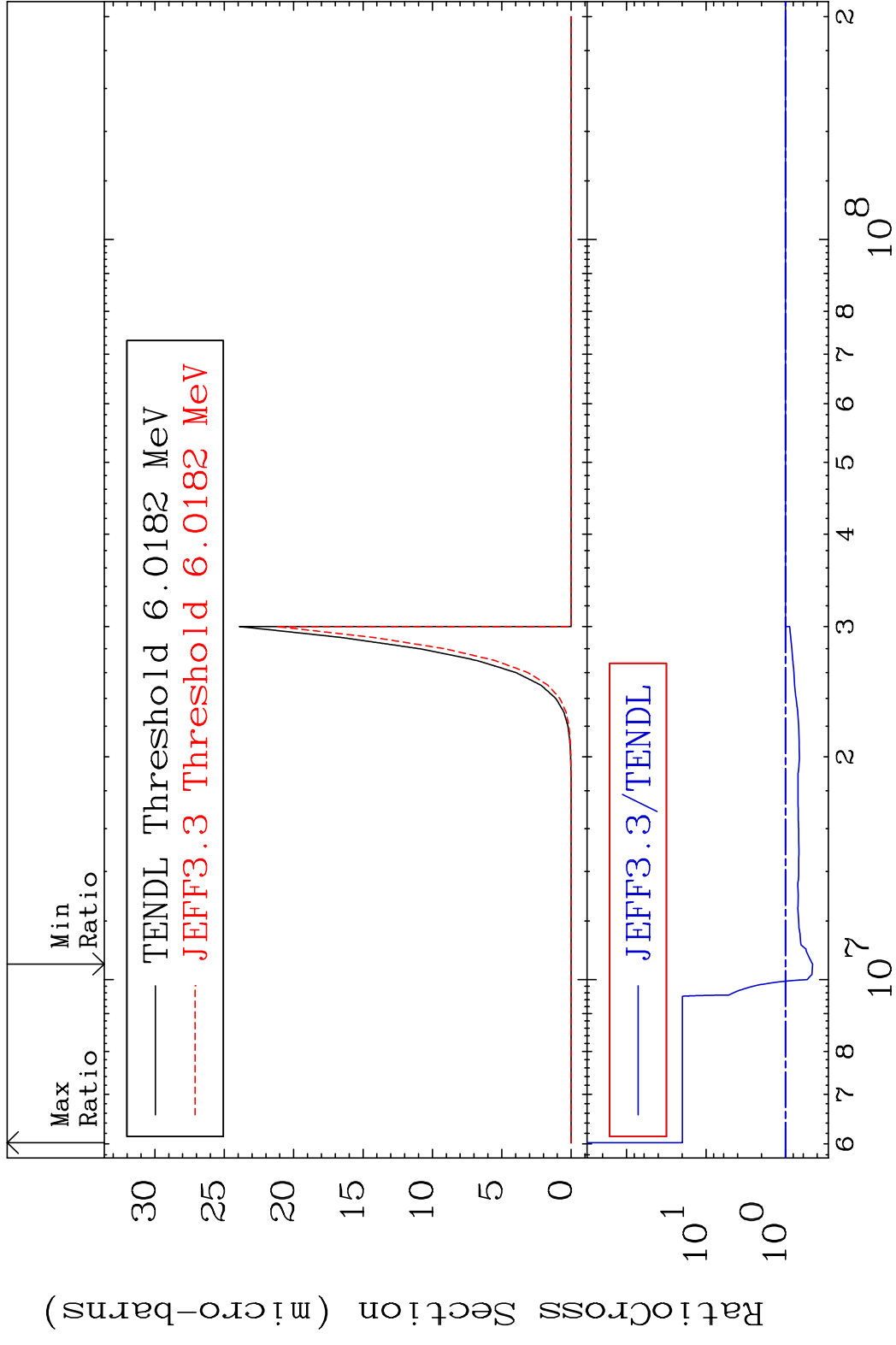
MAT 6028

(n,2p)

60-Nd-143

Cross Section

-54.27 To 1884. %

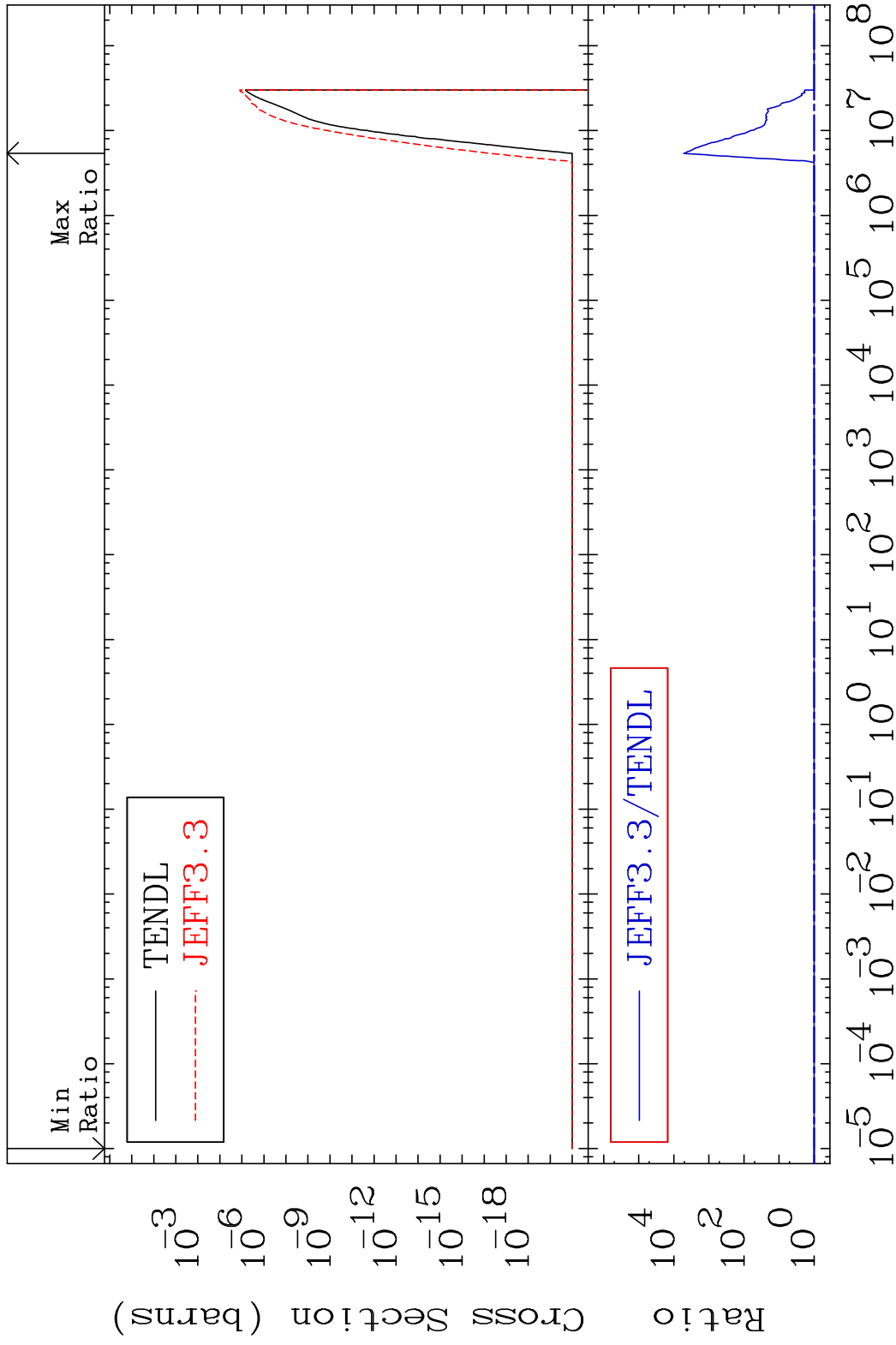


MAT 6028

(n,p) α

60-Nd-143

Cross Section 0.000 To 9999. %



58

Incident Energy (eV)

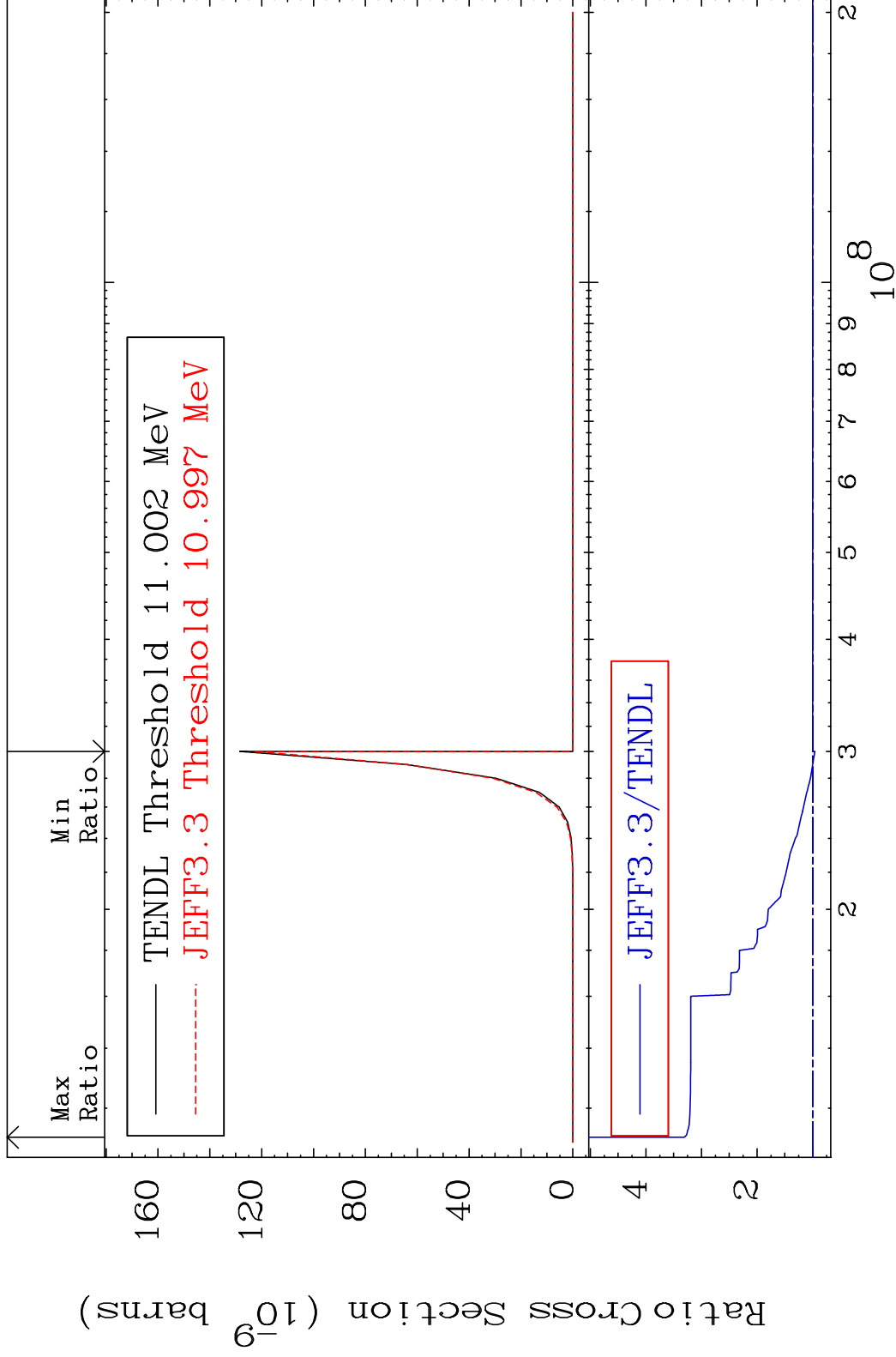
60-Nd-143

MAT 6028

(n,p) d

60-Nd-143

Cross Section -4.025 To 230.9 %

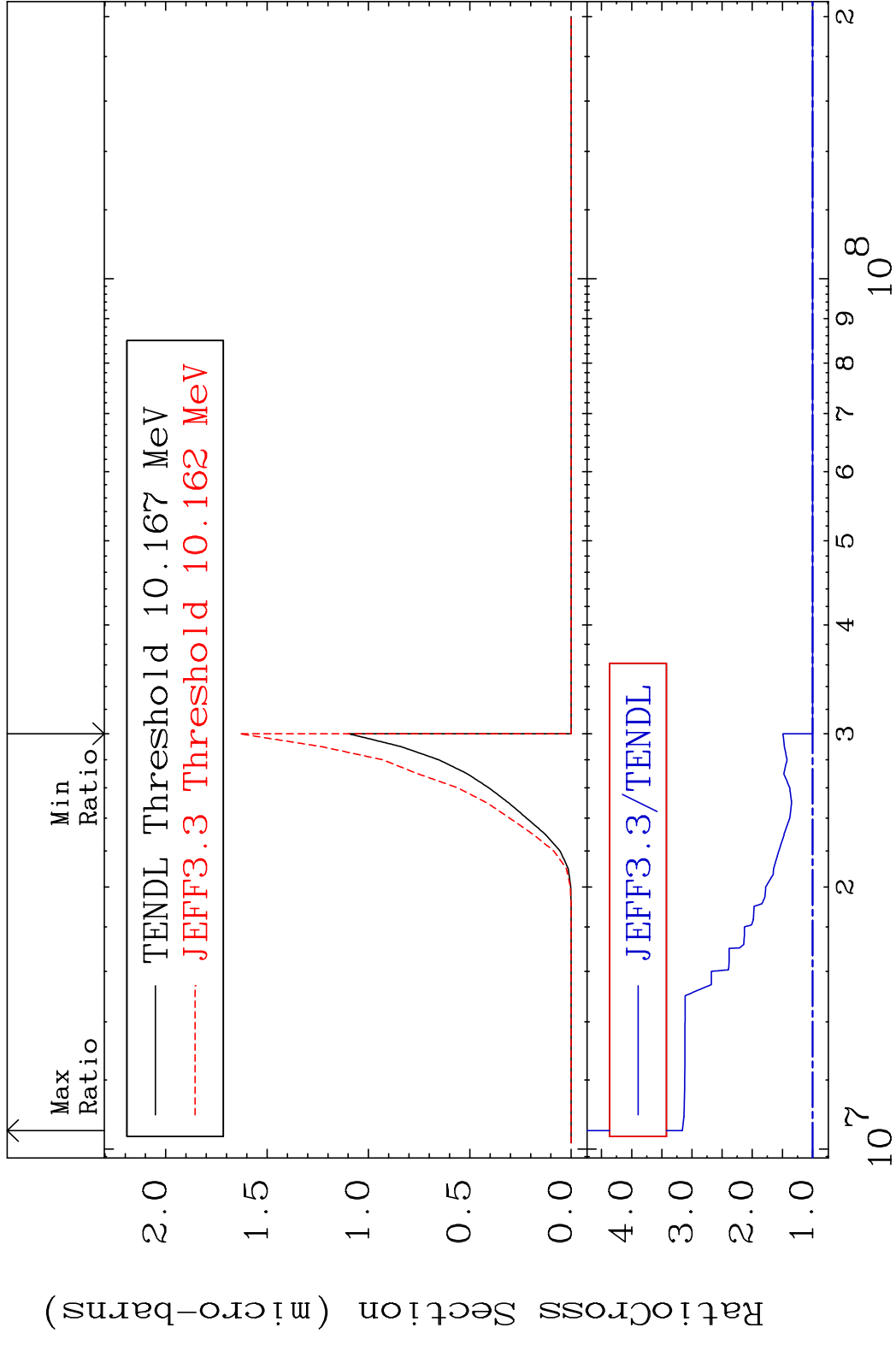


59

Incident Energy (eV)

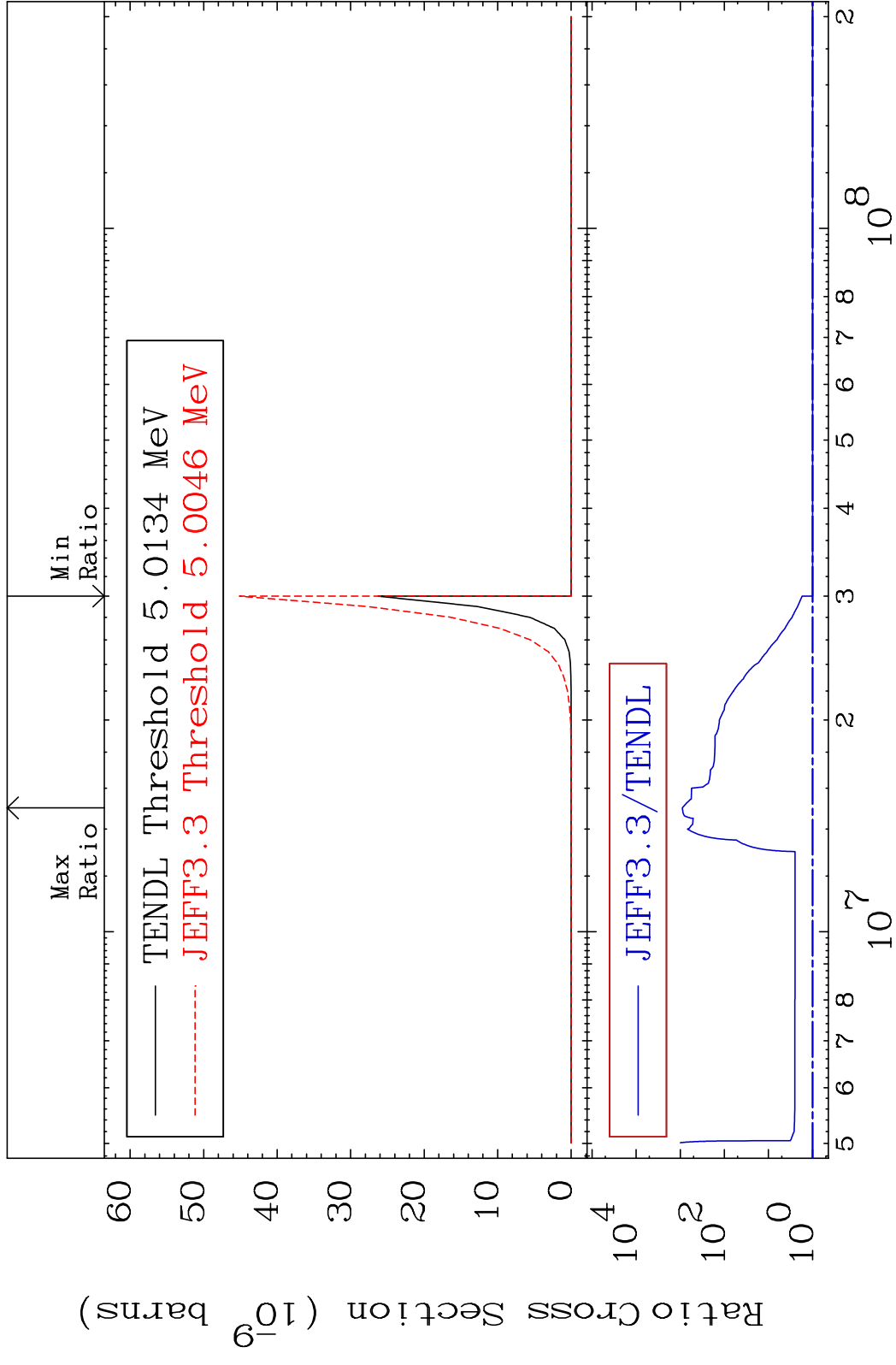
60-Nd-143

MAT 6028 (n,p) t 60-Nd-143
 Cross Section 0.000 To 215.9 %



60 Incident Energy (eV) 60-Nd-143

MAT 6028 (n,d) α 60-Nd-143
 Cross Section 0.000 To 9999. %

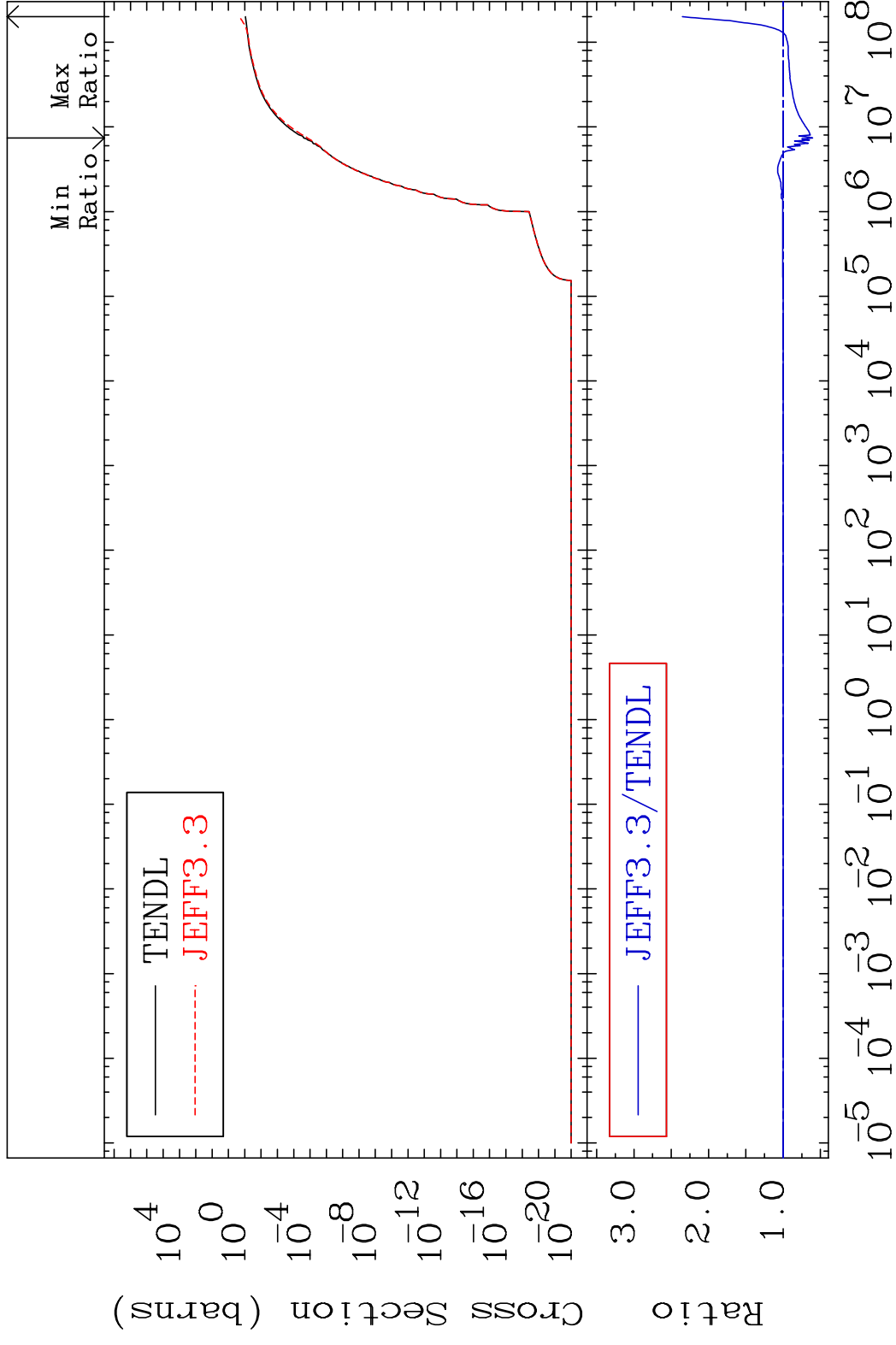


MAT 6028

Hydrogen Production

60-Nd-143

Cross Section -39.42 To 135.1 %

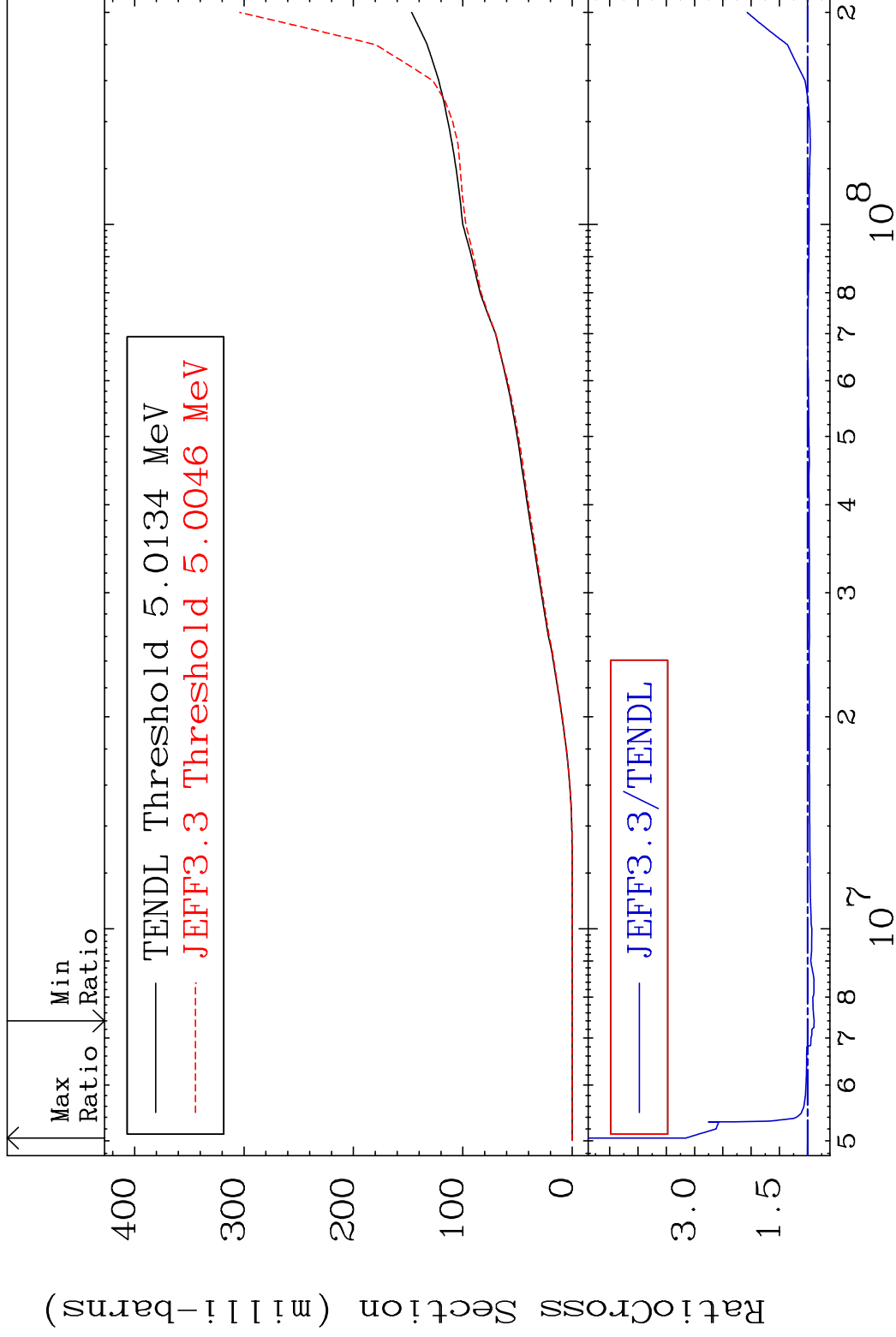


MAT 6028

Deuterium Production

60-Nd-143

Cross Section -11.44 To 219.3 %

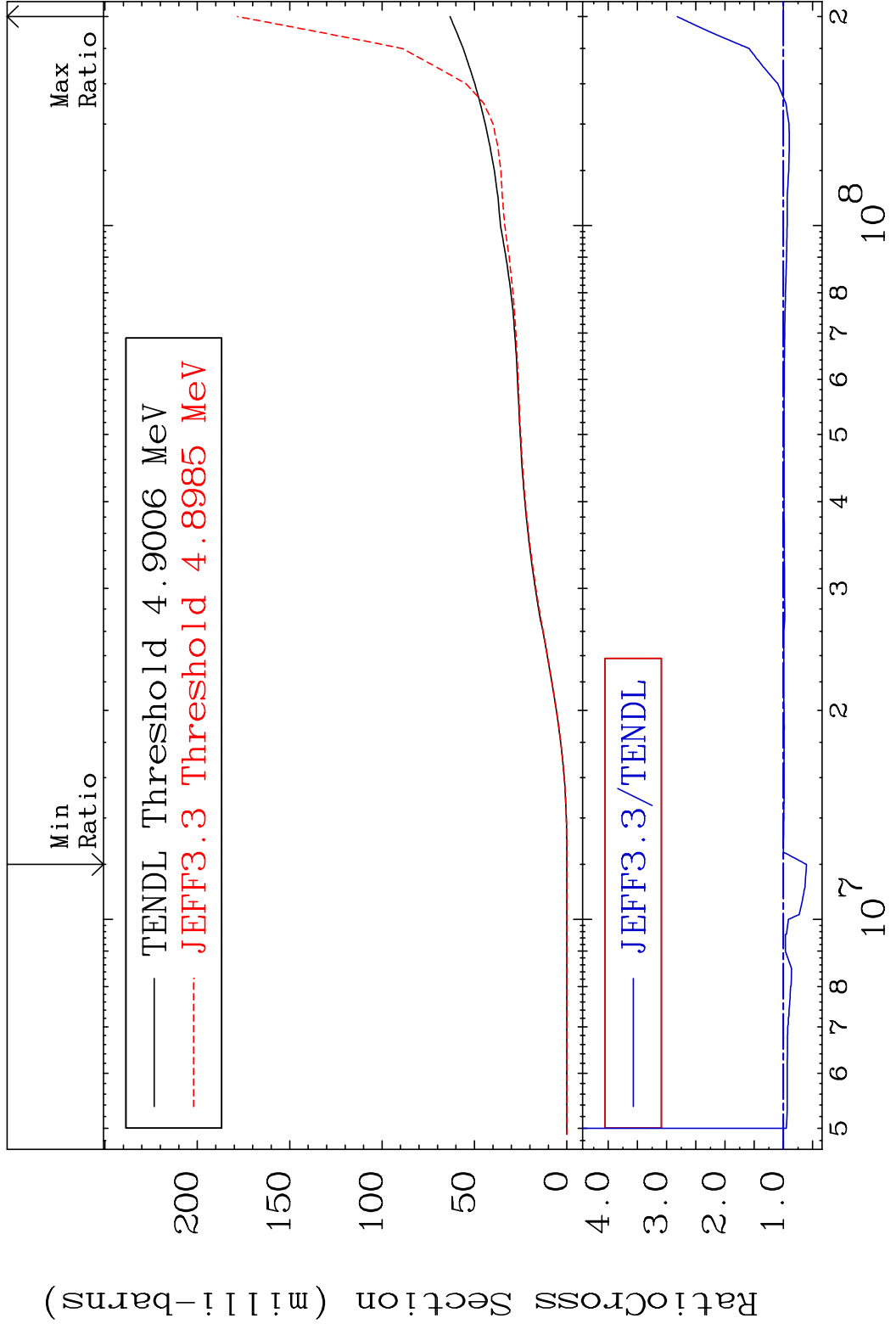


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Incident Energy (eV)

60-Nd-143

MAT 6028 Tritium Production 60-Nd-143
 Cross Section -39.33 To 181.9 %

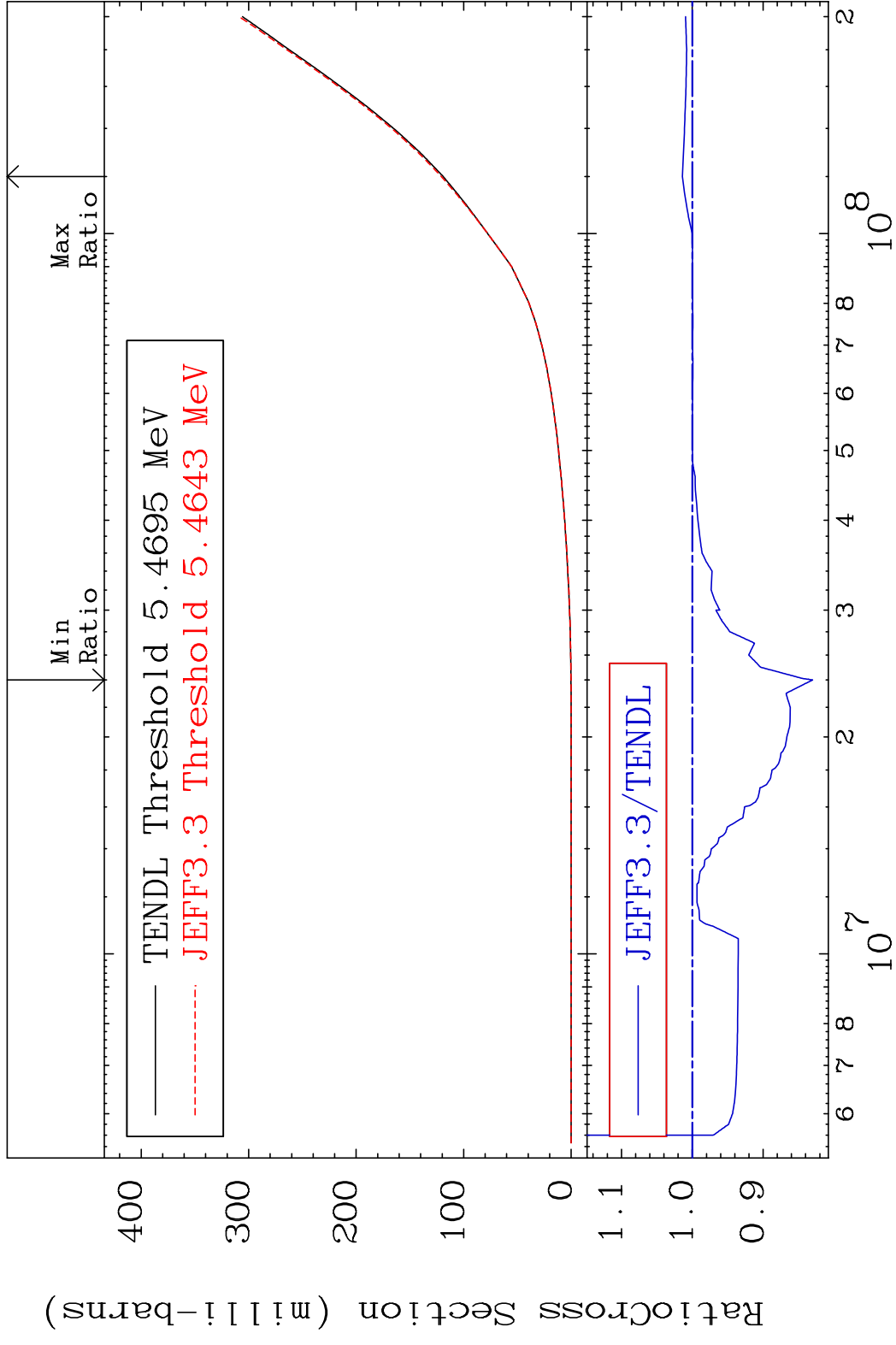


MAT 6028

He-3 Production

60-Nd-143

Cross Section -16.98 To 1.401 %



65

Incident Energy (eV)

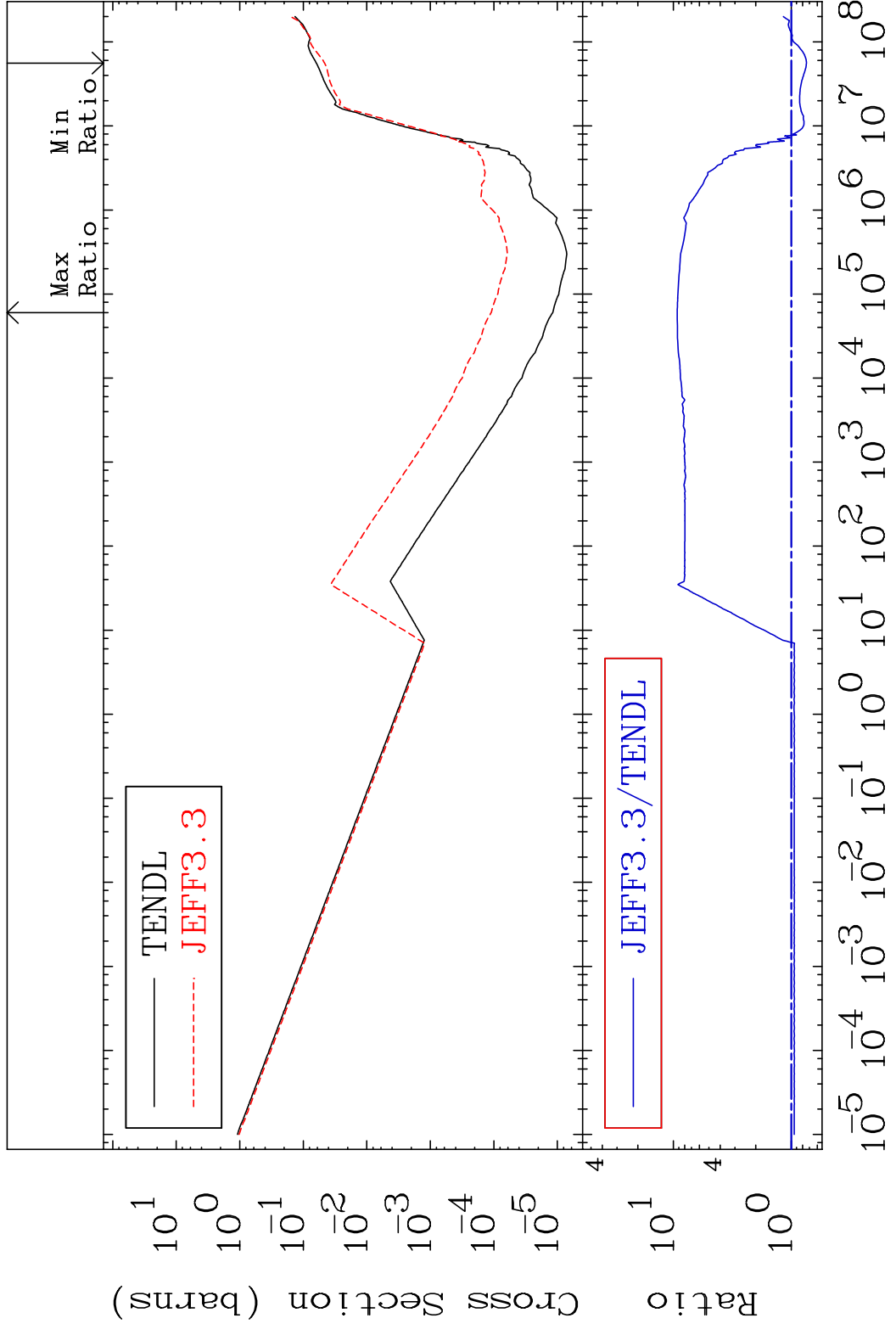
60-Nd-143

MAT 6028

He-4 Production

60-Nd-143

Cross Section -25.70 To 827.5 %

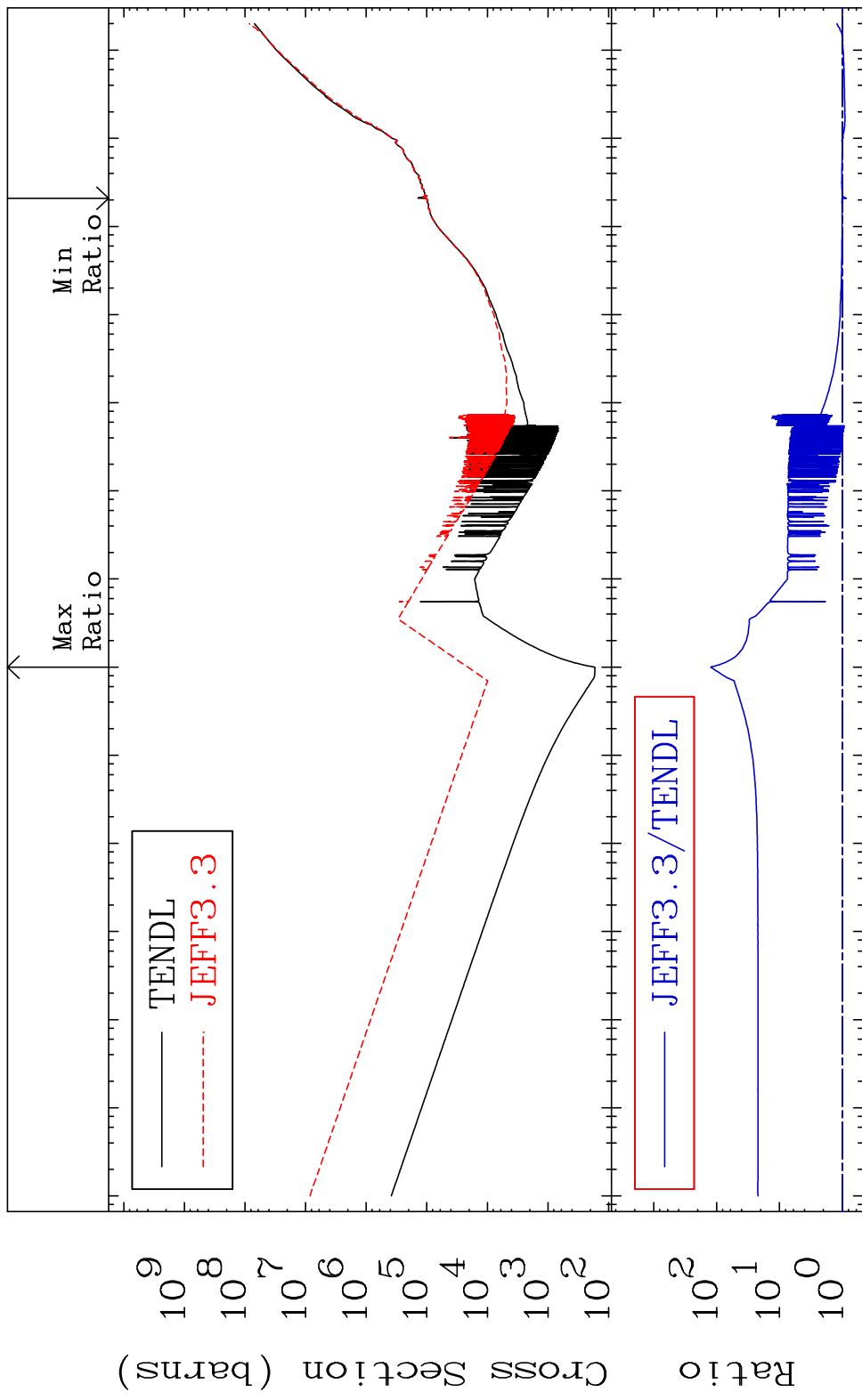


66

Incident Energy (eV)

60-Nd-143

MAT 6028 Kerma total (eV-barns) 60-Nd-143
 Cross Section -13.56 To 9999. %

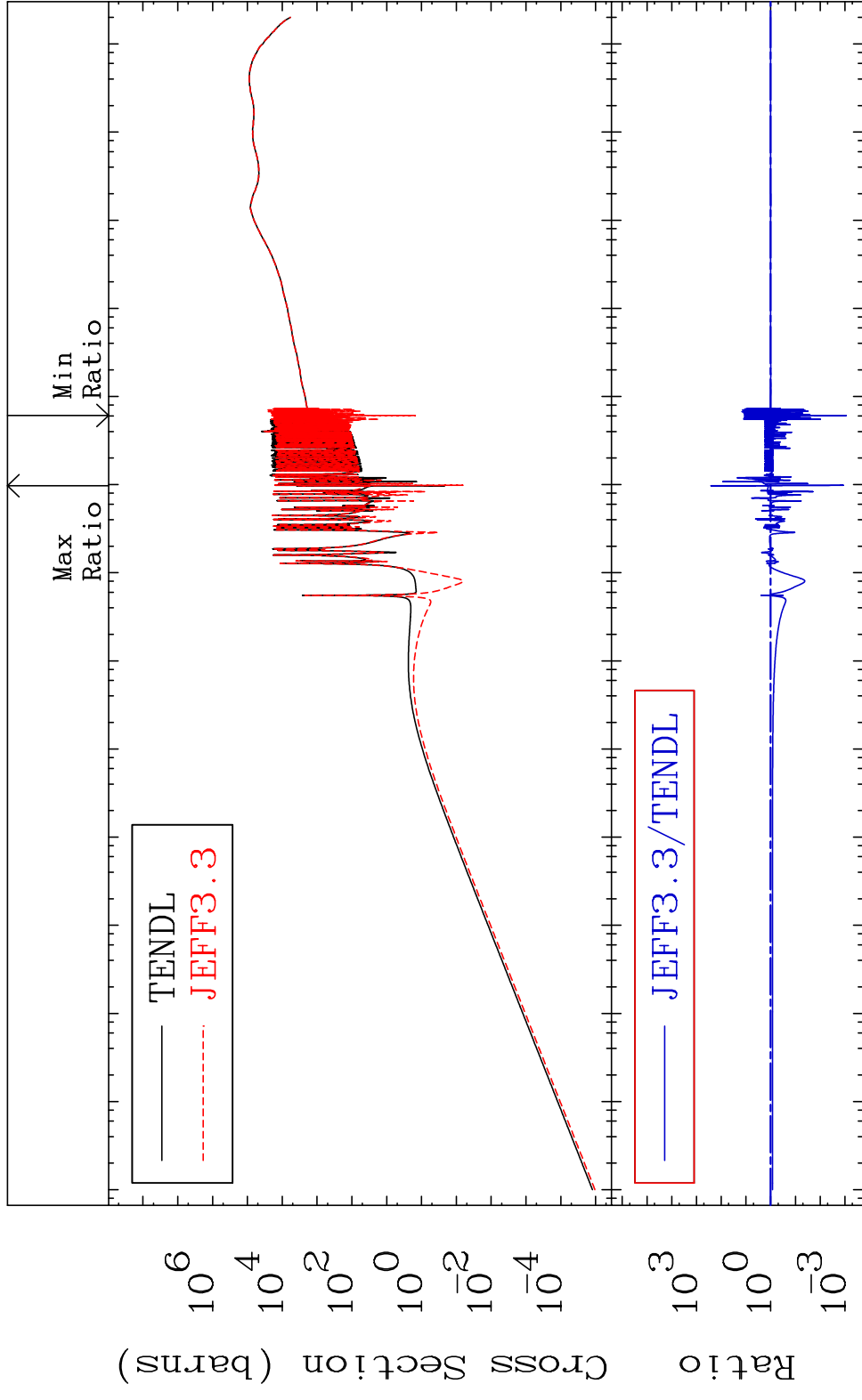


67 Incident Energy (eV) 60-Nd-143

MAT 6028

Kerma elastic
Cross Section

60-Nd-143
-99.91 To 9999. %

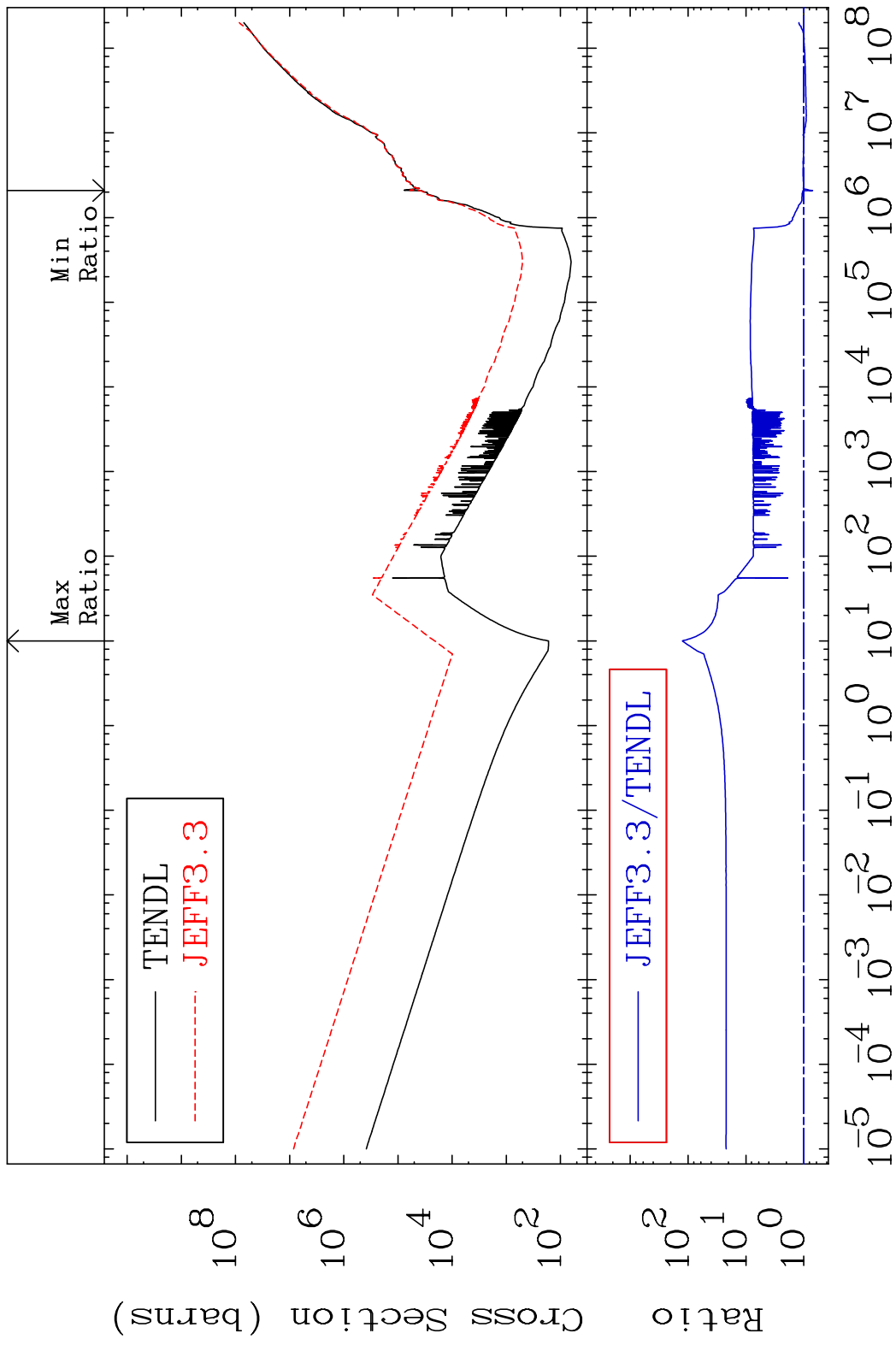


68

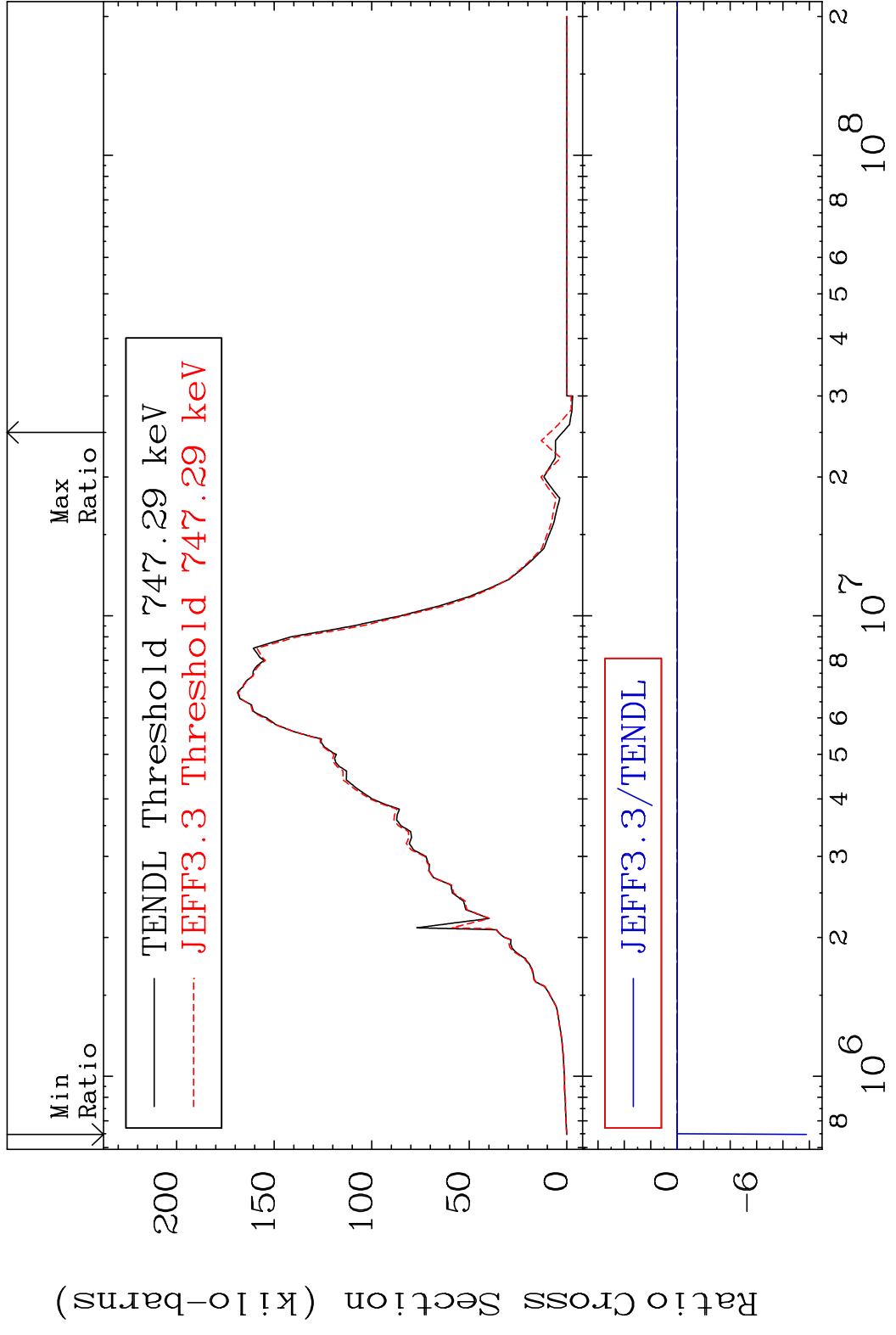
Incident Energy (eV)

60-Nd-143

MAT 6028 Kerma non-elastic (all but mt2) 60-Nd-143
 Cross Section -29.60 To 9999. %

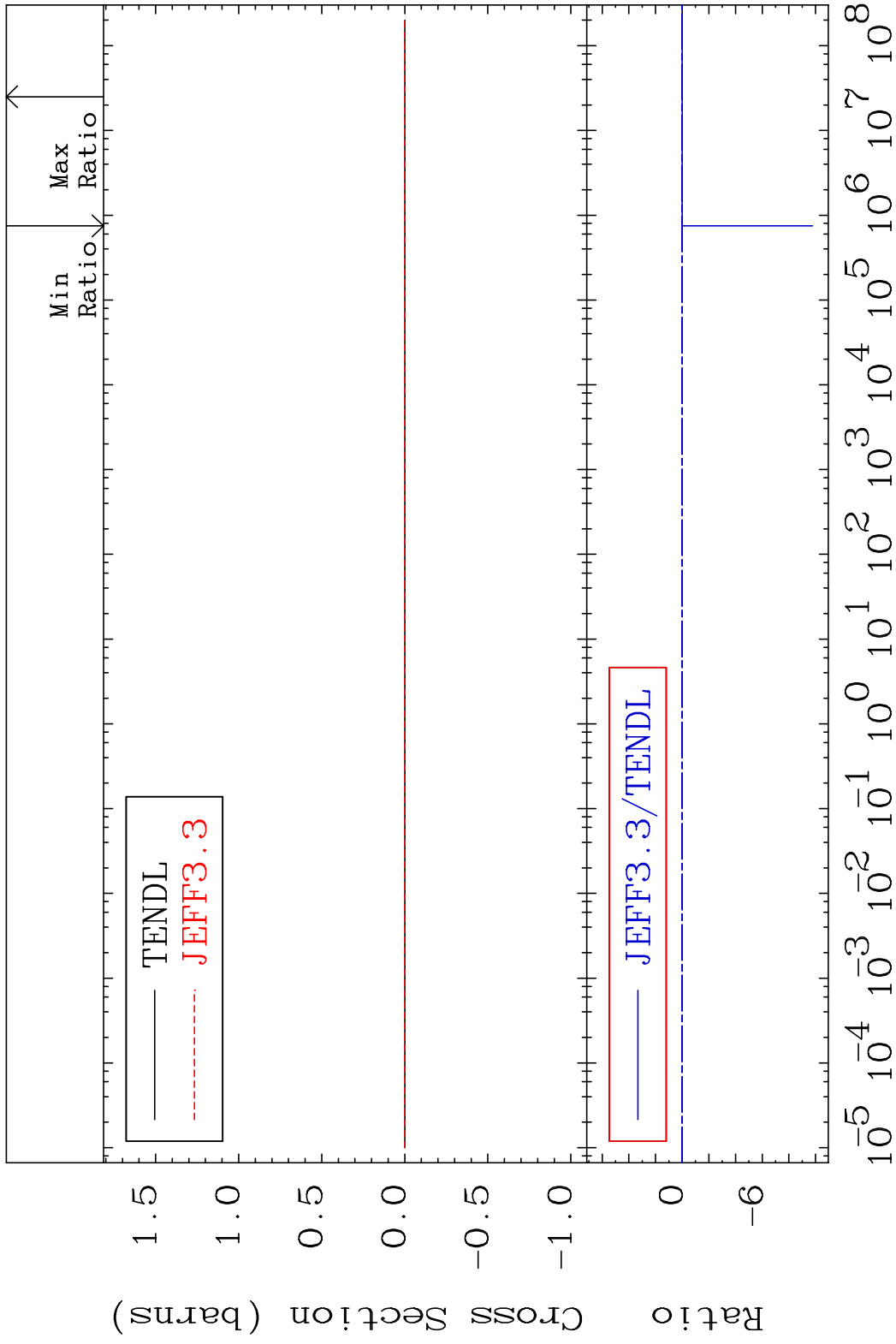


MAT 6028 Kerma inelastic (mt51-91) 60-Nd-143
 Cross Section -9999. To 285.7 %



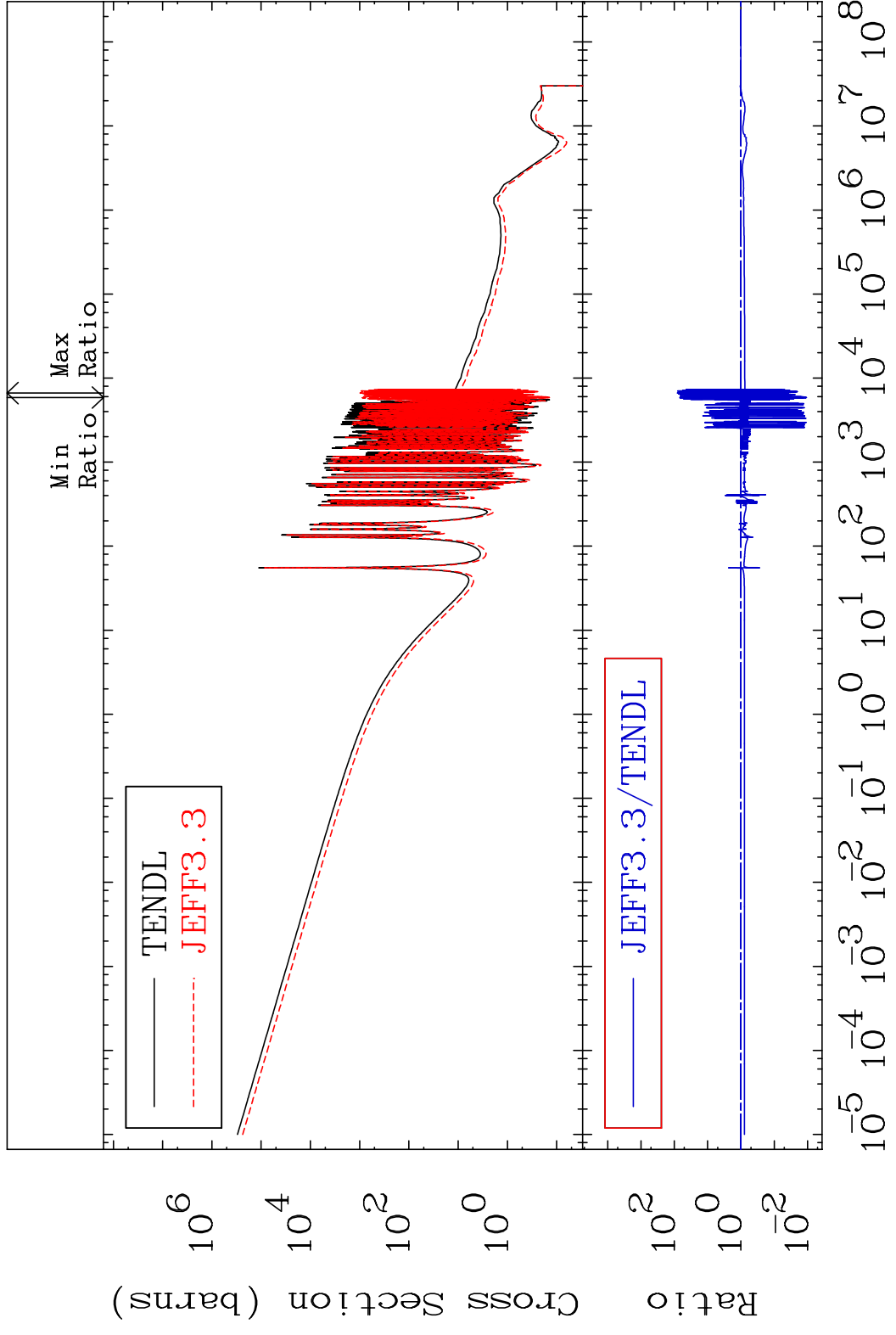
70 Incident Energy (eV) 60-Nd-143

MAT 6028 Kerma fission (mt18 or mt19-20-21-38) 60-Nd-143
 Cross Section -9999. To 285.7 %



MAT 6028

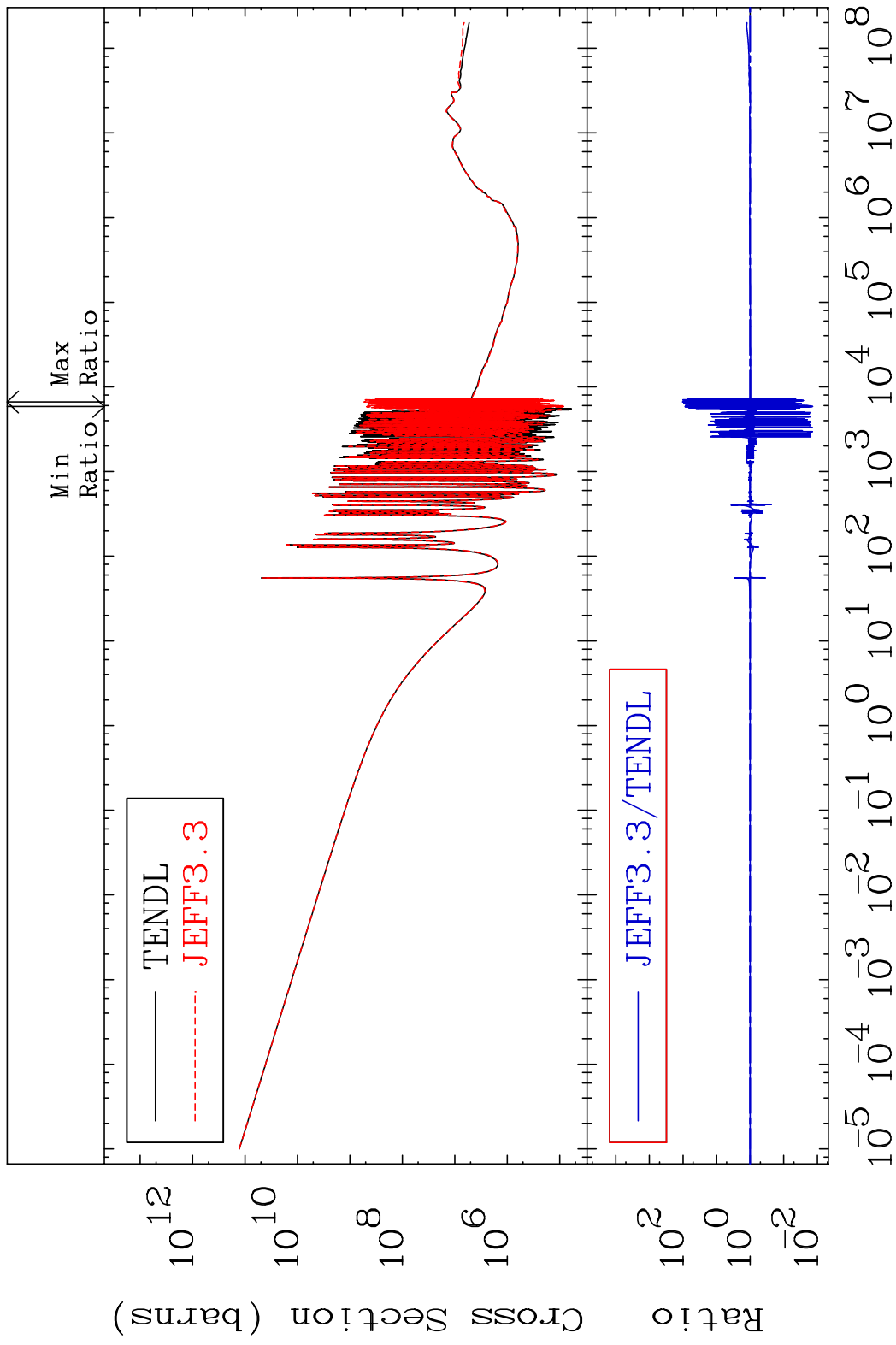
Kerma capture (mt102) 60-Nd-143
Cross Section -98.92 To 8099. %



72

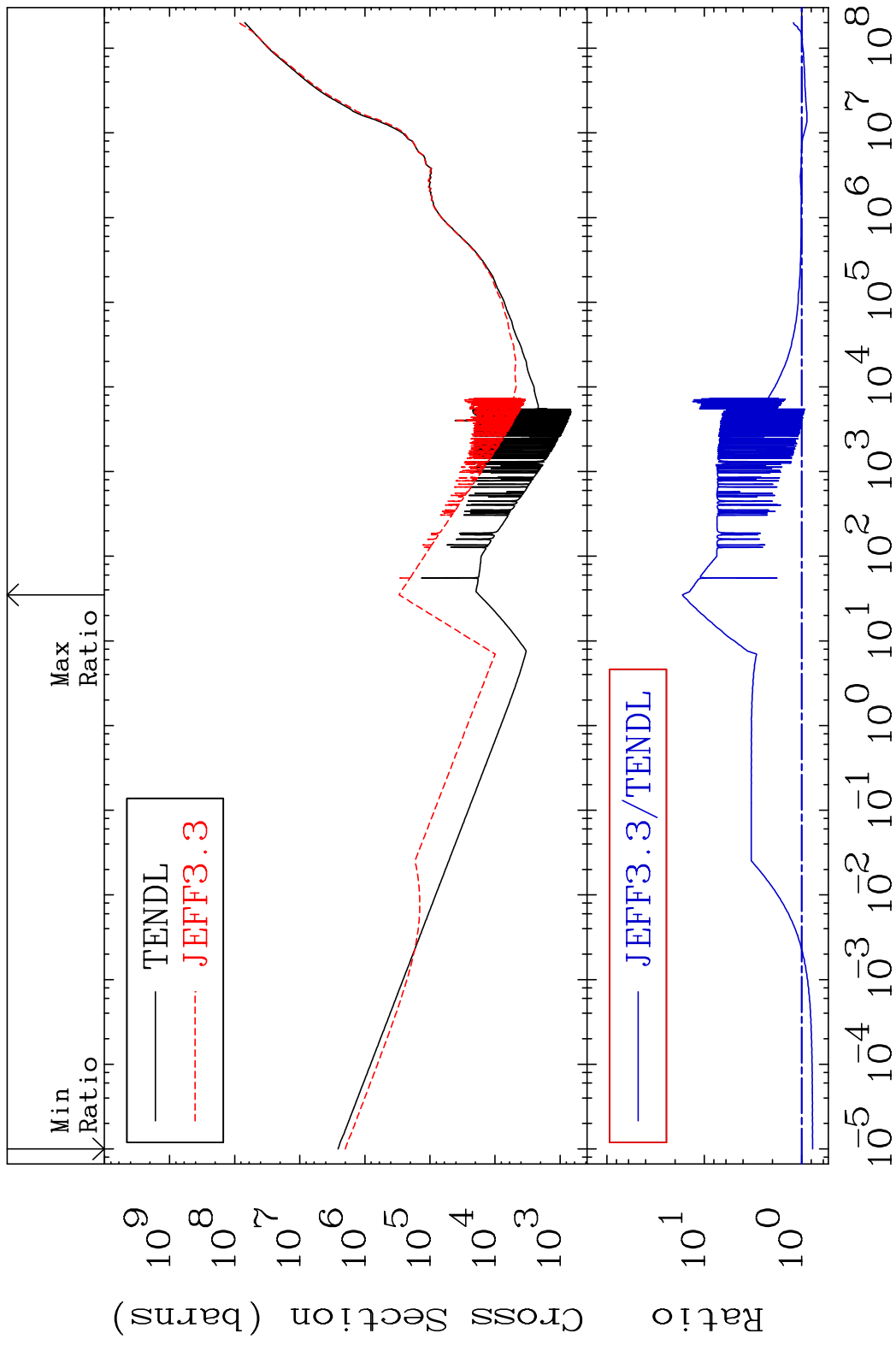
Incident Energy (eV) 60-Nd-143

MAT 6028 Total photon (eV-barns) 60-Nd-143
 Cross Section -98.61 To 9999. %



73 Incident Energy (eV) 60-Nd-143

MAT 6028 Total kinematic kerma (high limit) 60-Nd-143
 Cross Section -22.55 To 1583. %

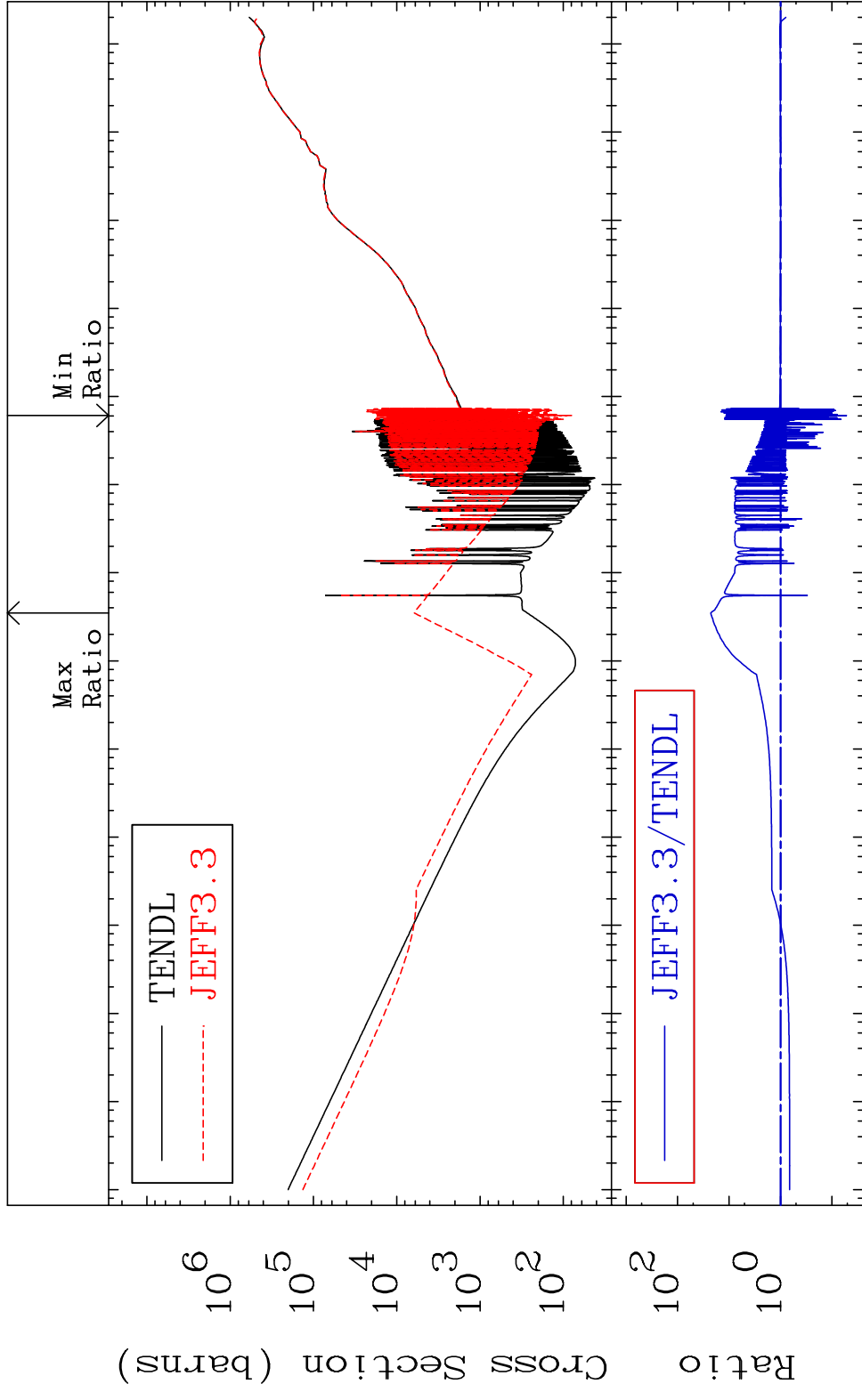


MAT 6028

Dpa total (eV-barns)

60-Nd-143

Cross Section -94.76 To 2171. %



75

Incident Energy (eV)

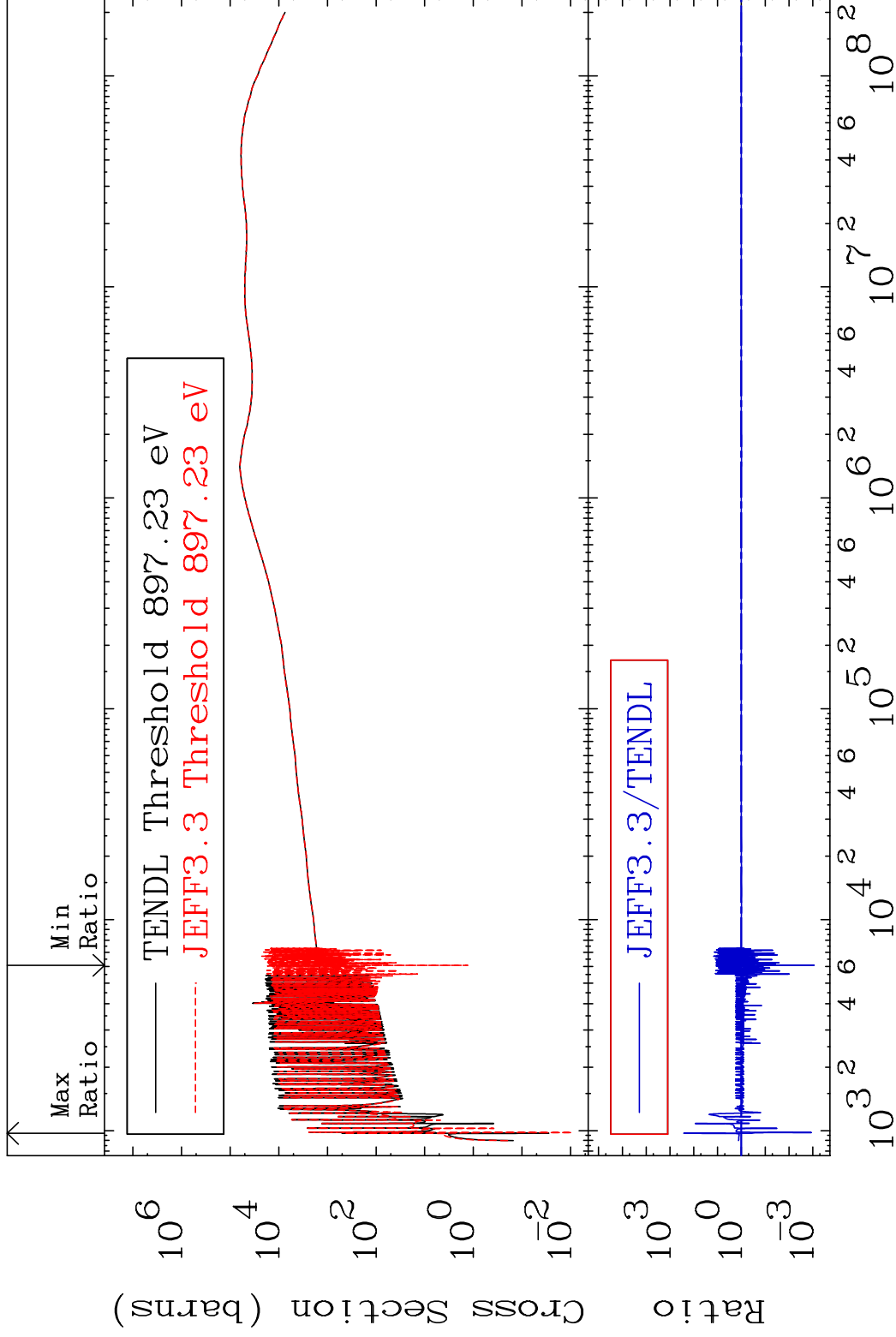
60-Nd-143

MAT 6028

Dpa elastic (mt2)

60-Nd-143

Cross Section -99.91 To 9999. %

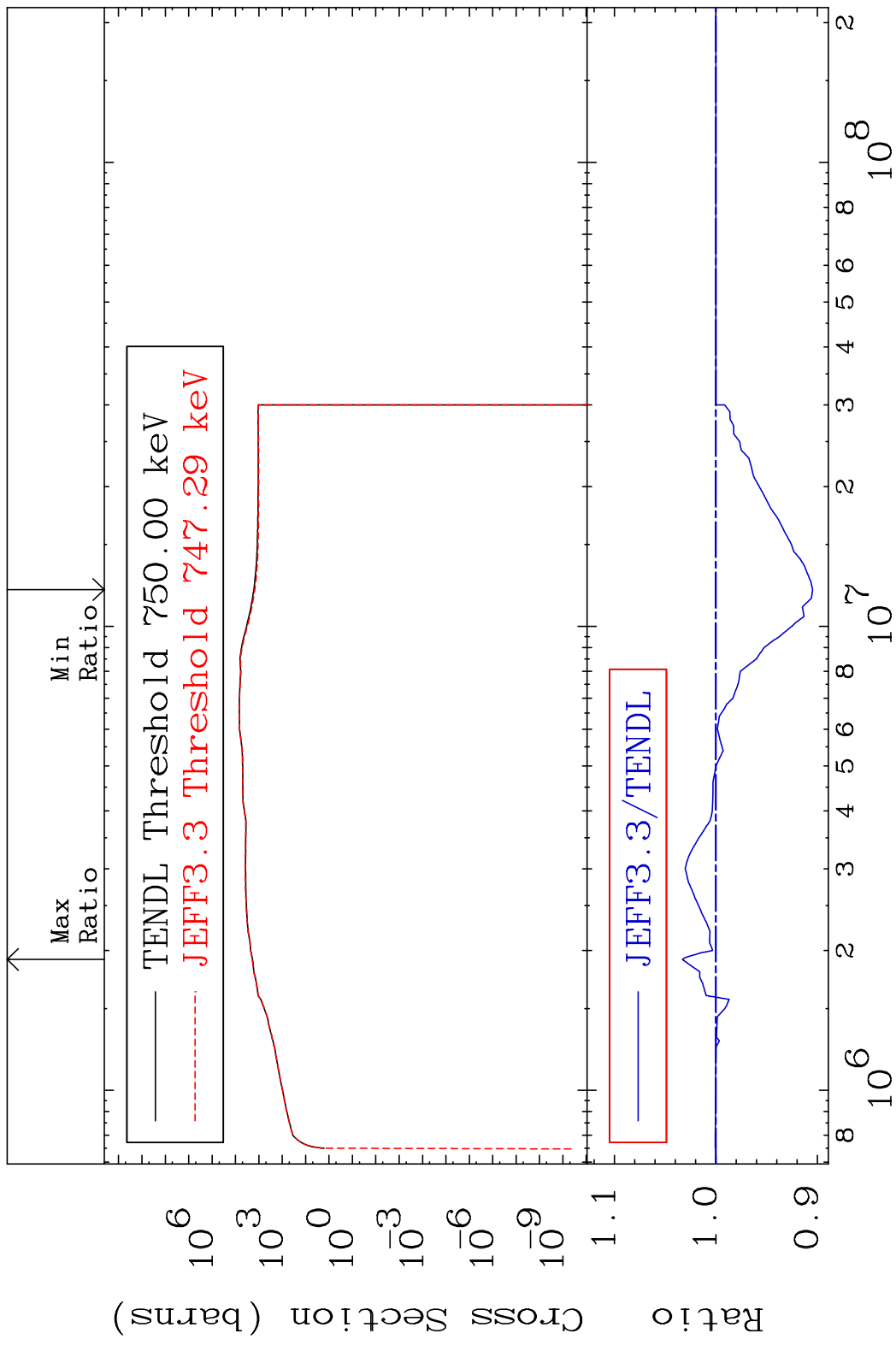


76

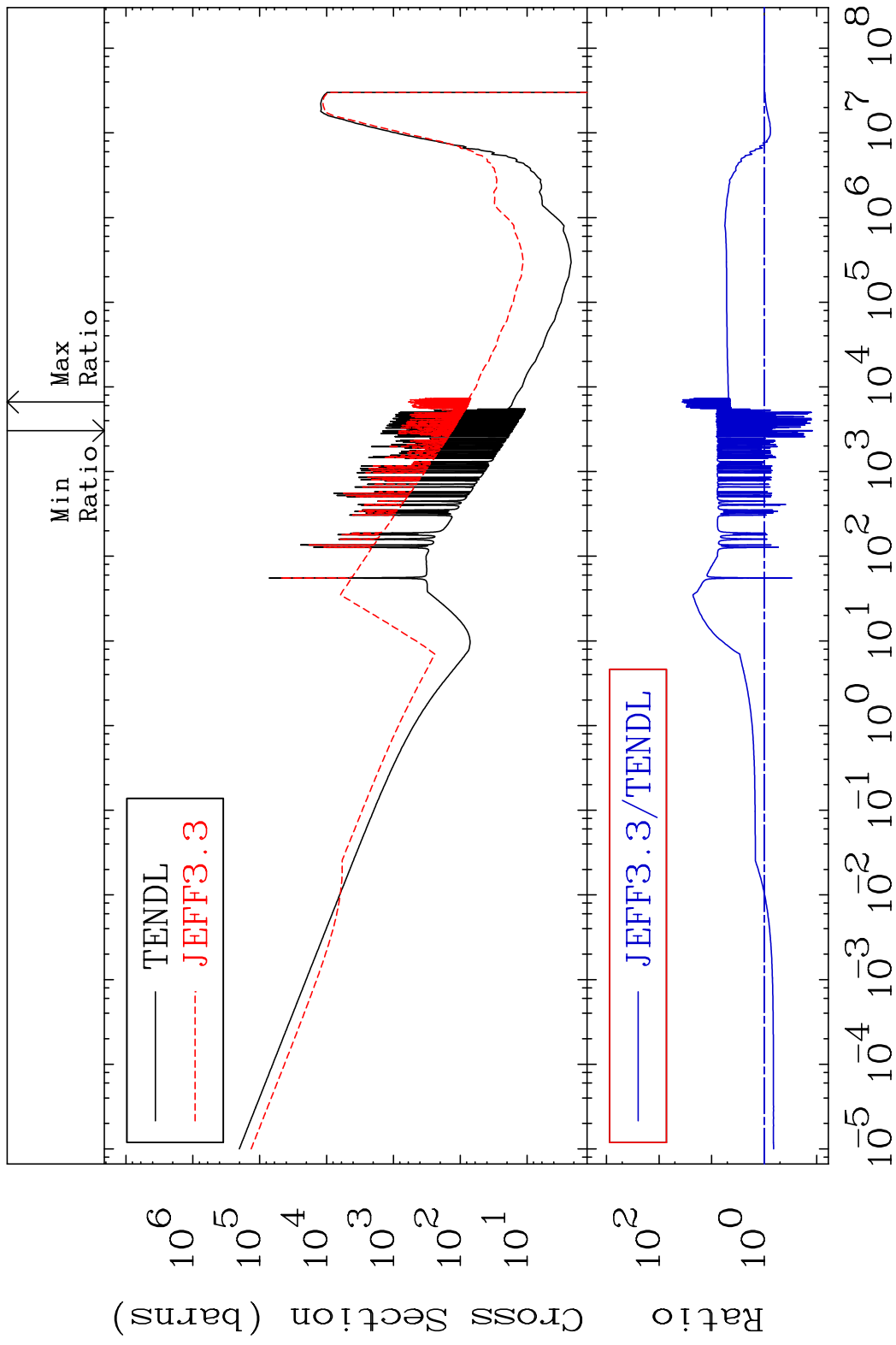
Incident Energy (eV)

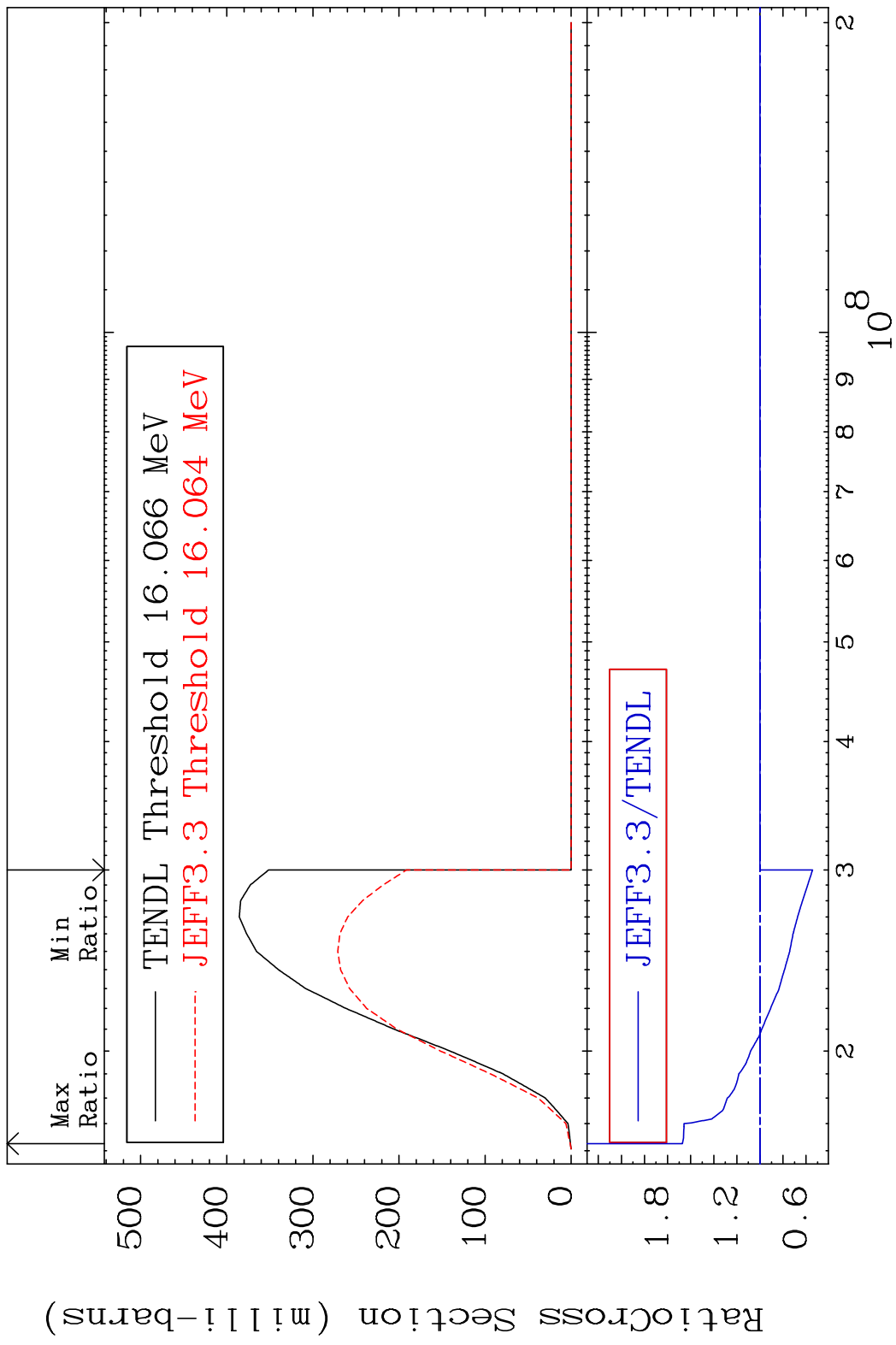
60-Nd-143

MAT 6028 Dpa inelastic (mt51-91) 60-Nd-143
 Cross Section -9.529 To 3.301 %

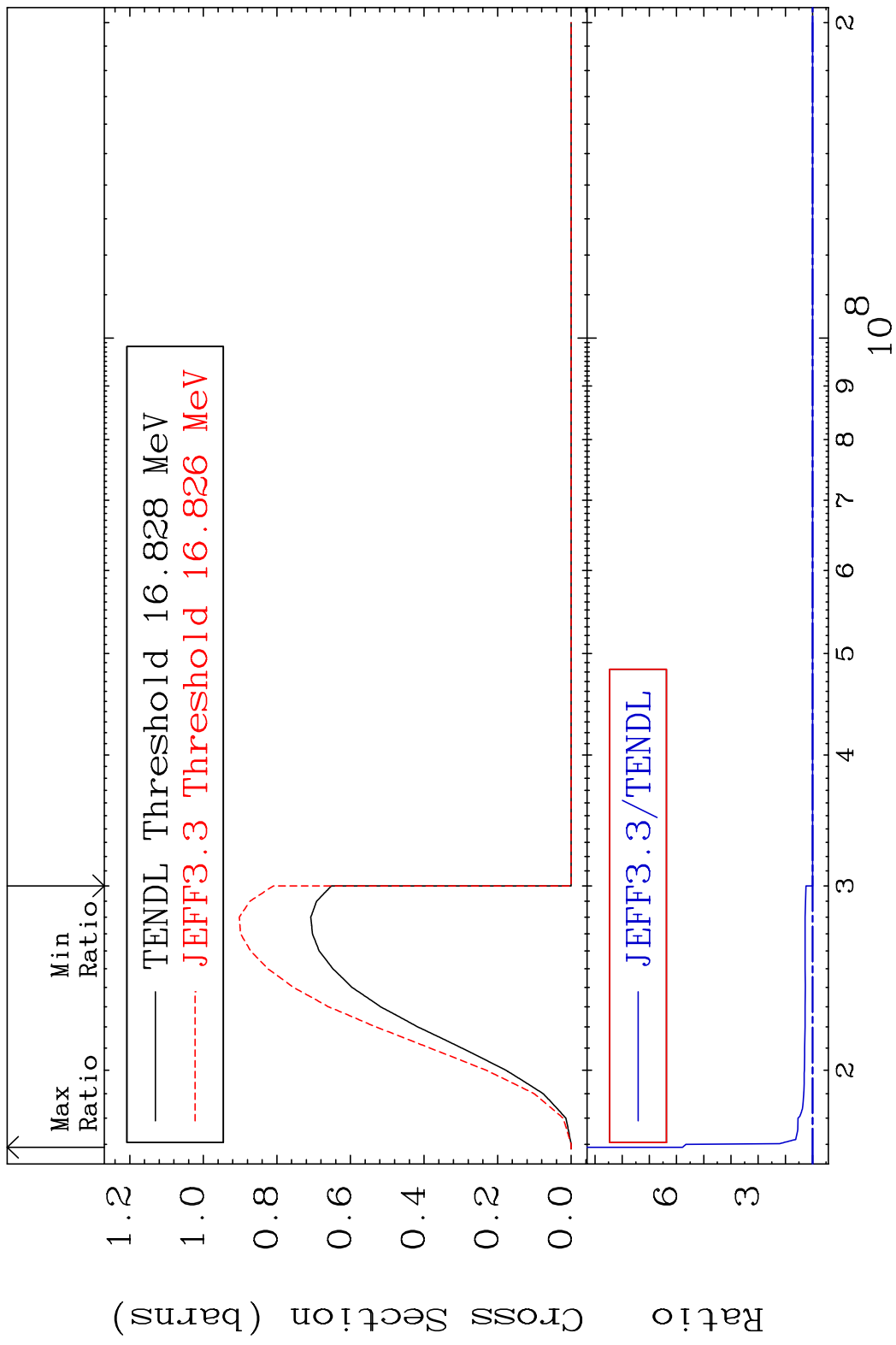


MAT 6028 Dpa disappearance (mt102 -120) 60-Nd-143
 Cross Section -87.98 To 3499. %

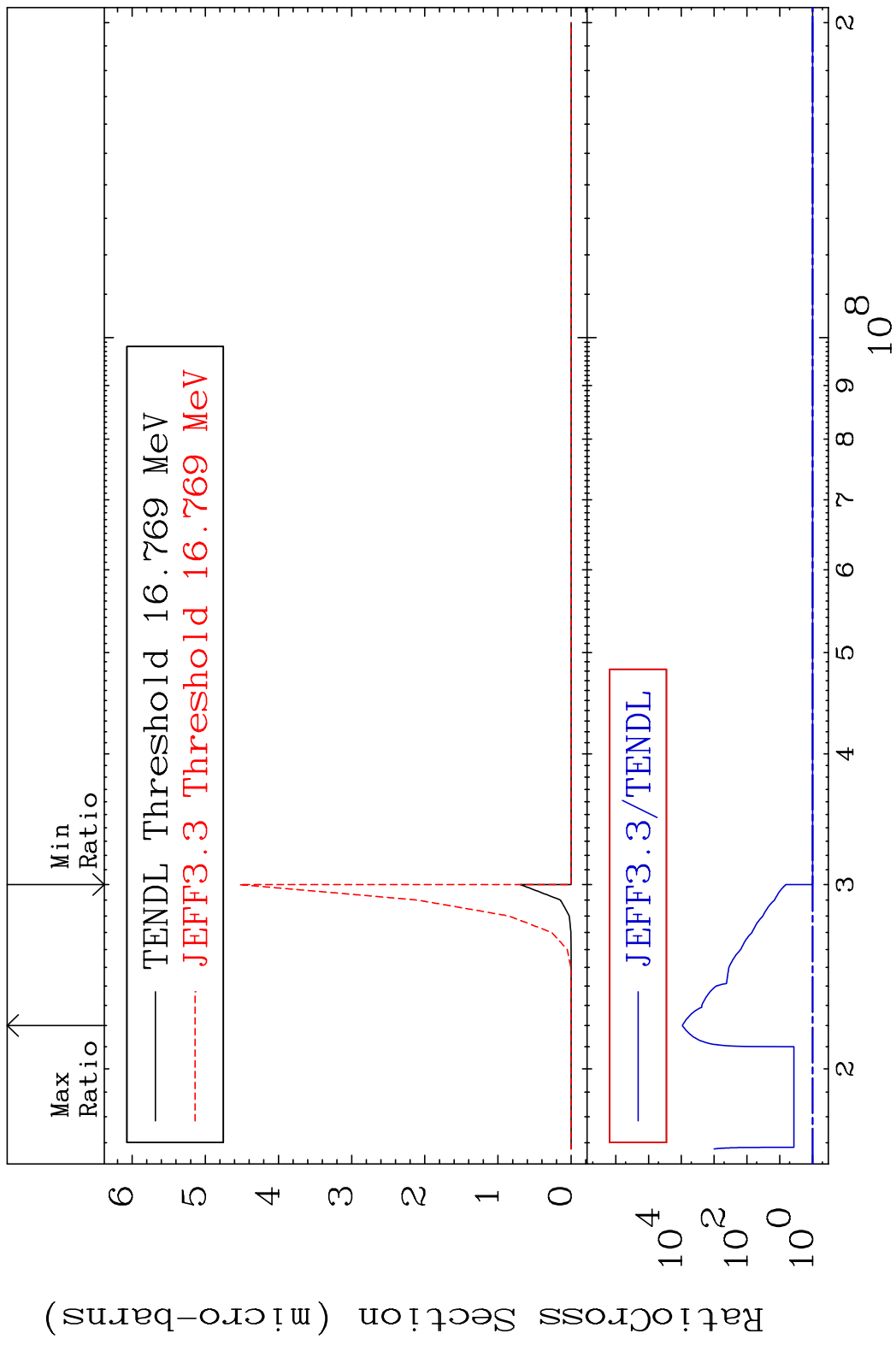


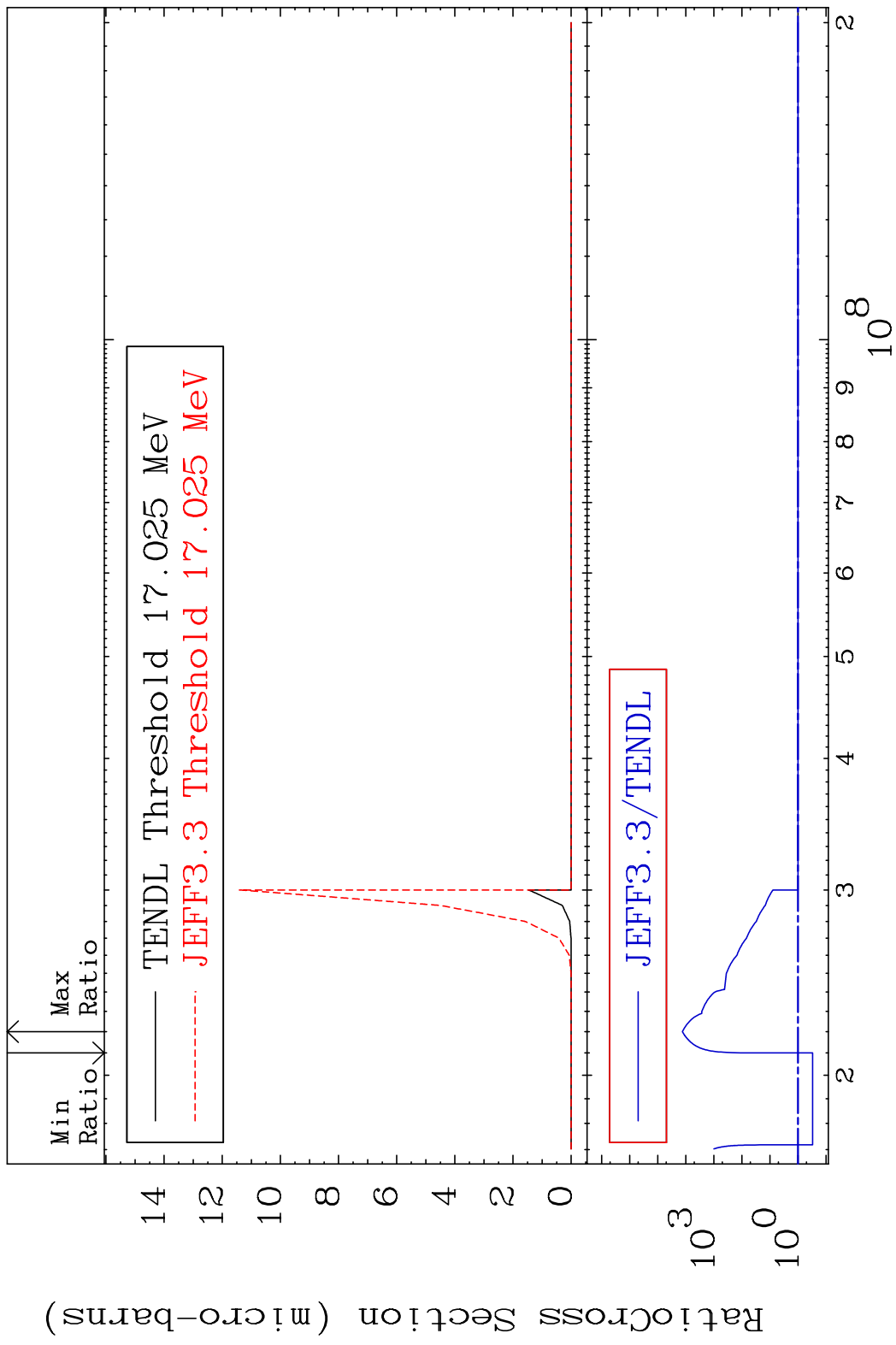


MAT 6028 (n, 3n):60-Nd-141m2 60-Nd-143
 Radionuclide Production Cross Section 478.7 %

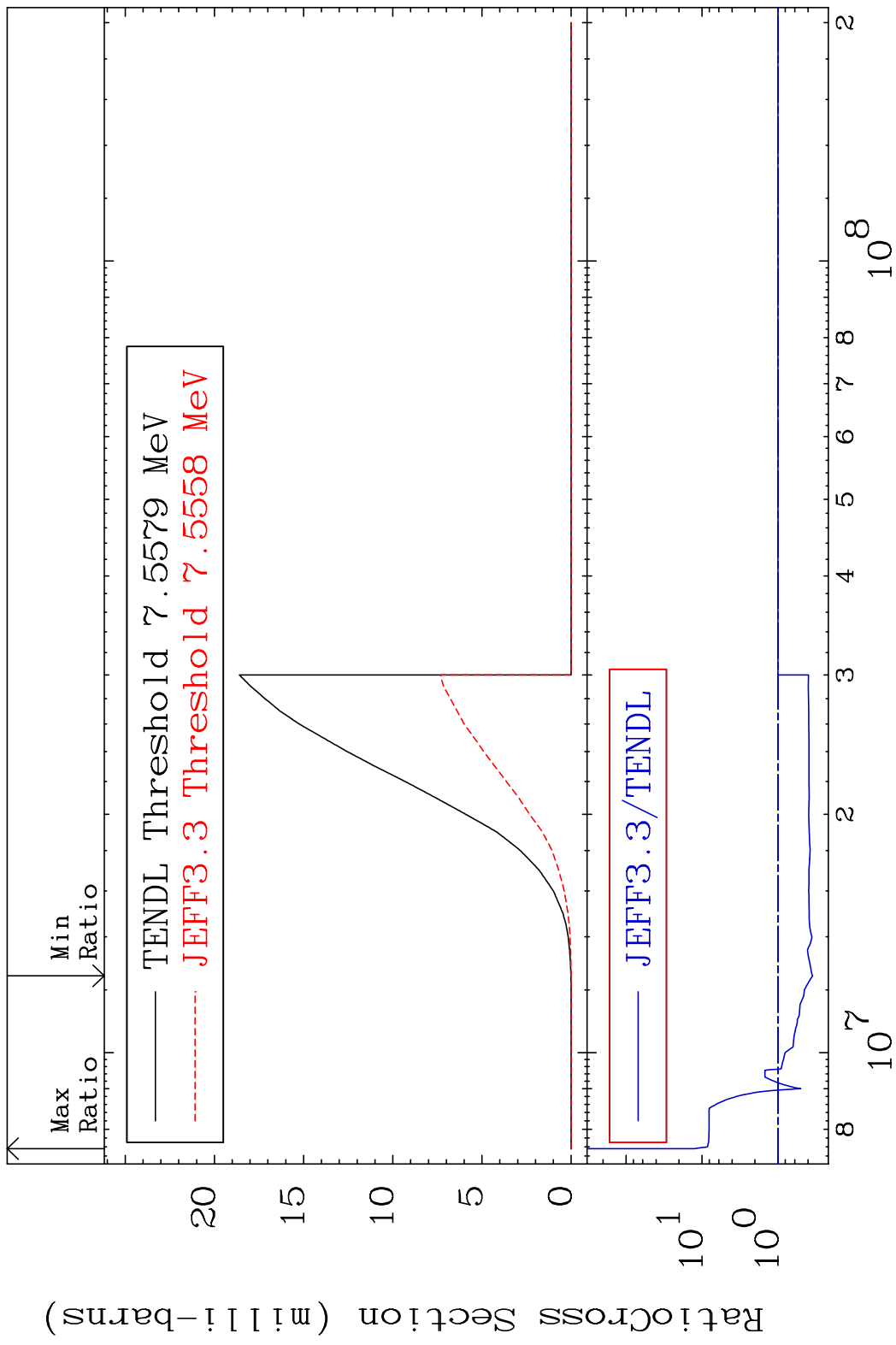


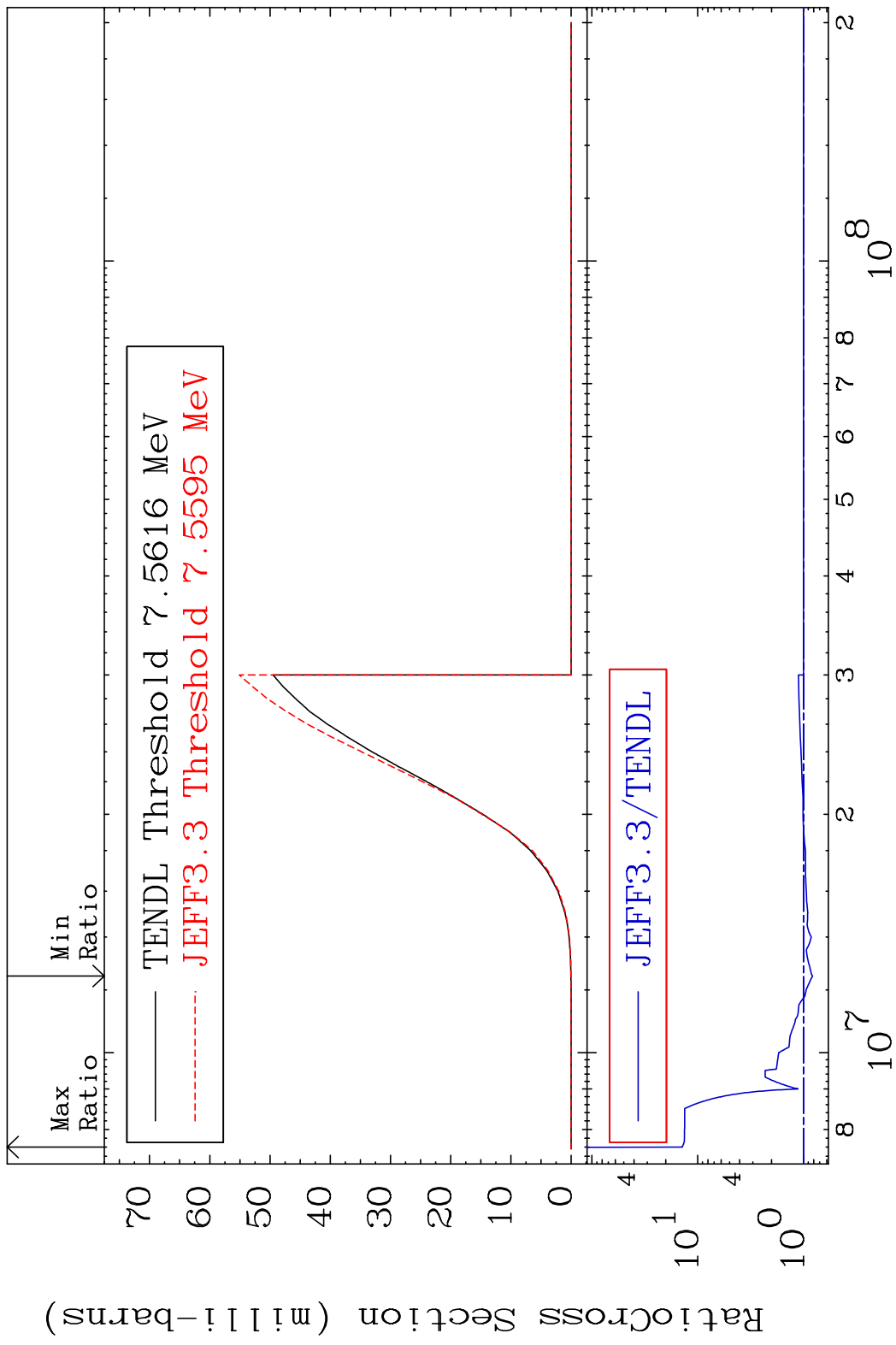
80 Incident Energy (eV) 60-Nd-143



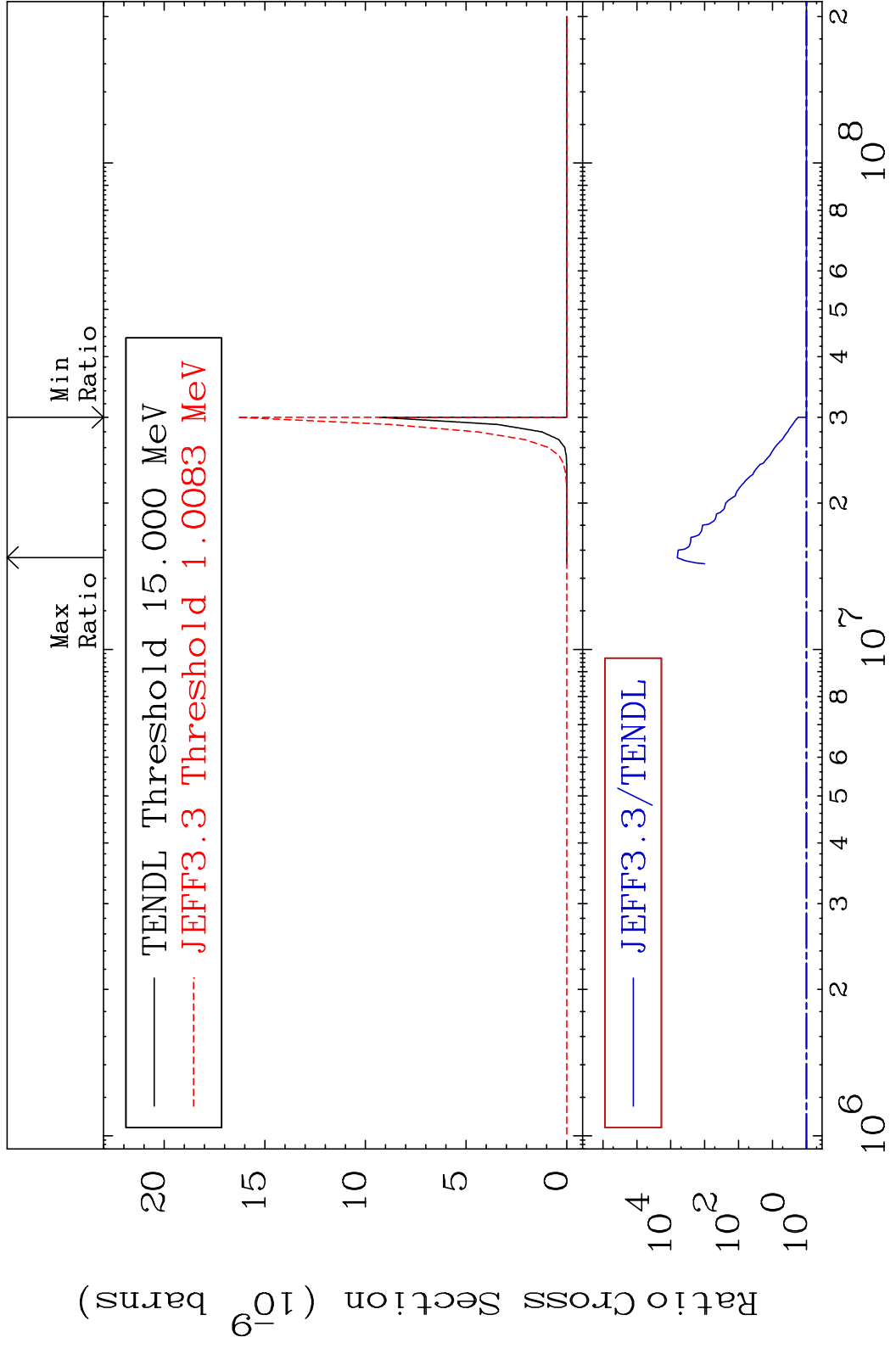


MAT 6028 (n, n') p:59-Pr-142g 60-Nd-143
 Radionuclide Production Cross Section 1710. %

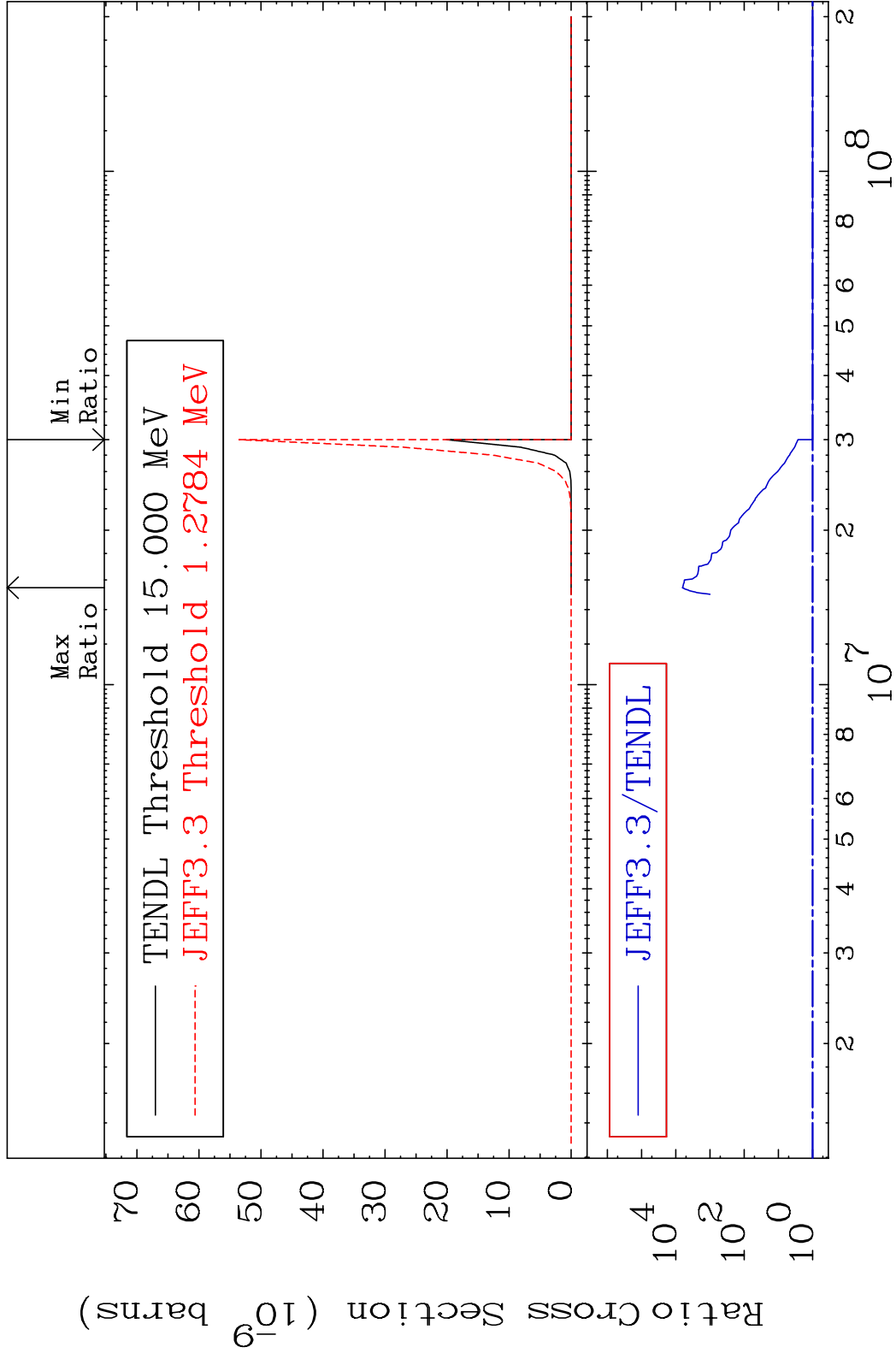




MAT 6028 (n, n') 2α:56-Ba-135g 60-Nd-143
 Radionuclide Production Cross Section, %



85 Incident Energy (eV) 60-Nd-143



MAT 6028 (n, d):59-Pr-142g 60-Nd-143
 Radionuclide Production Cross Section 112.1 %

