

Program Complot
(Version 2021-1)

by

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U.S.A.

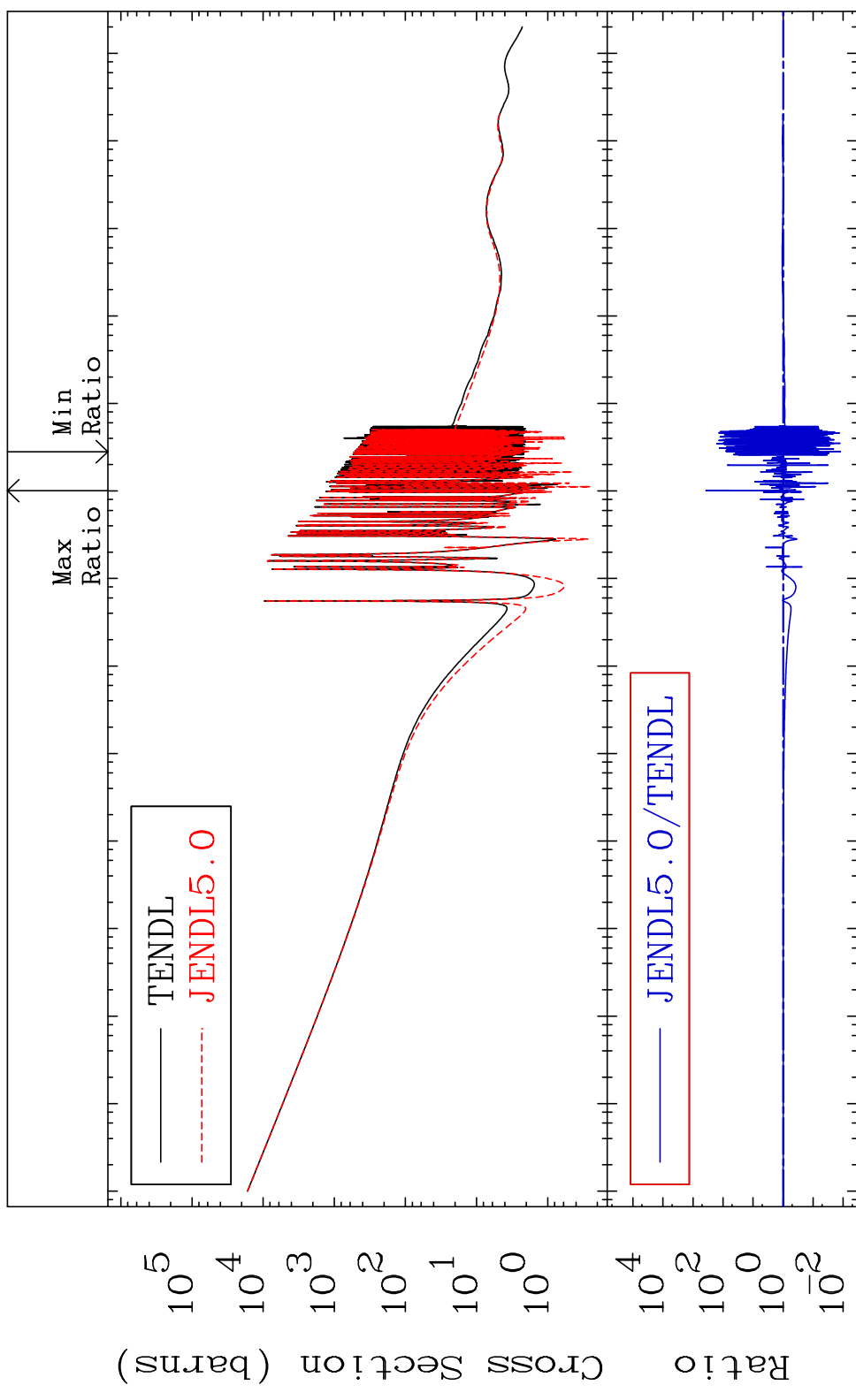
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 6028

Total Cross Section -98.777 To 9999. %
60-Nd-143



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 10⁻¹ 10⁻² 10⁻³ 10⁻⁴ 10⁻⁵

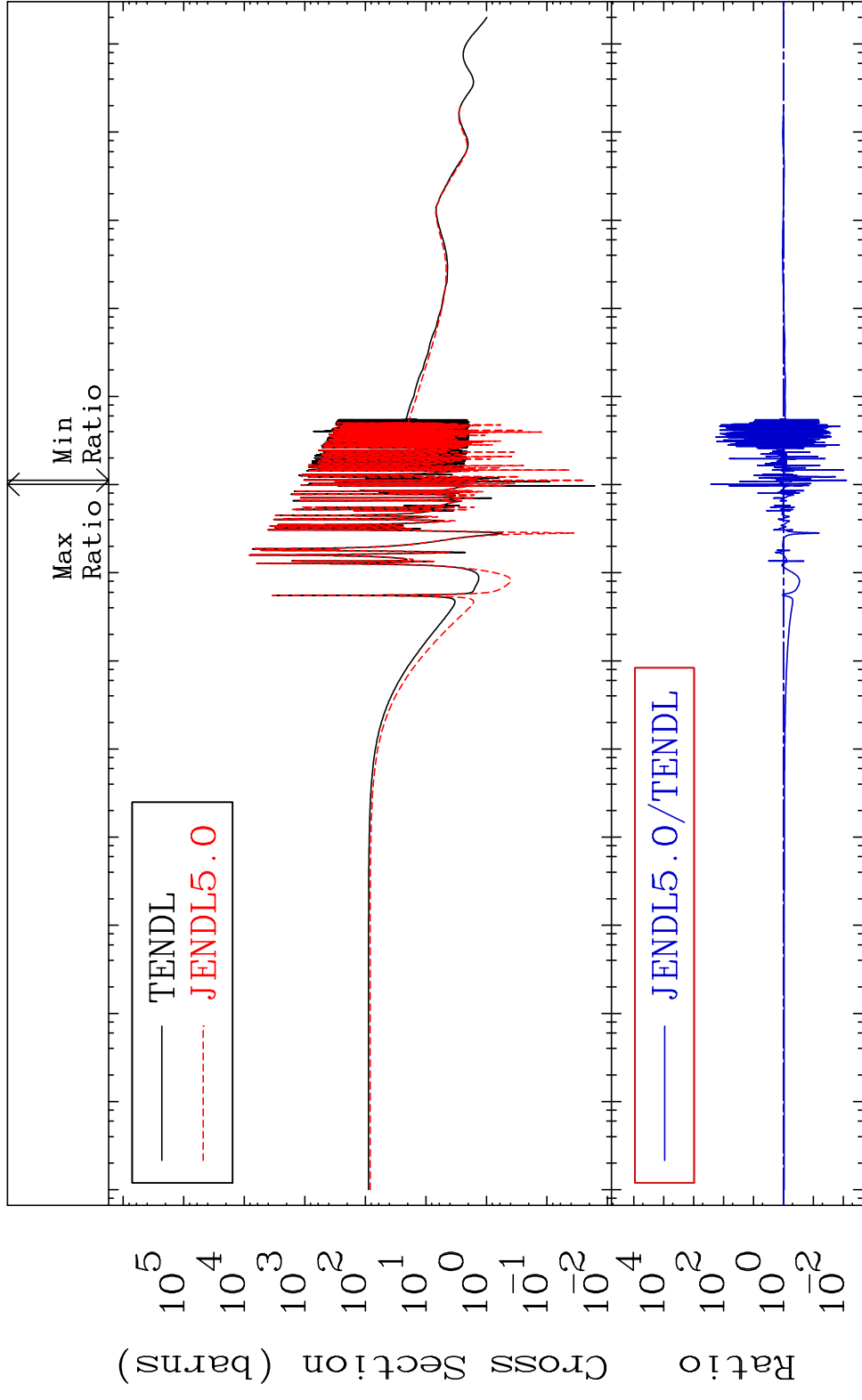
1 Incident Energy (eV) 60-Nd-143

MAT 6028

Elastic

60-Nd-143

Cross Section -99.21 To 9999. %



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

2

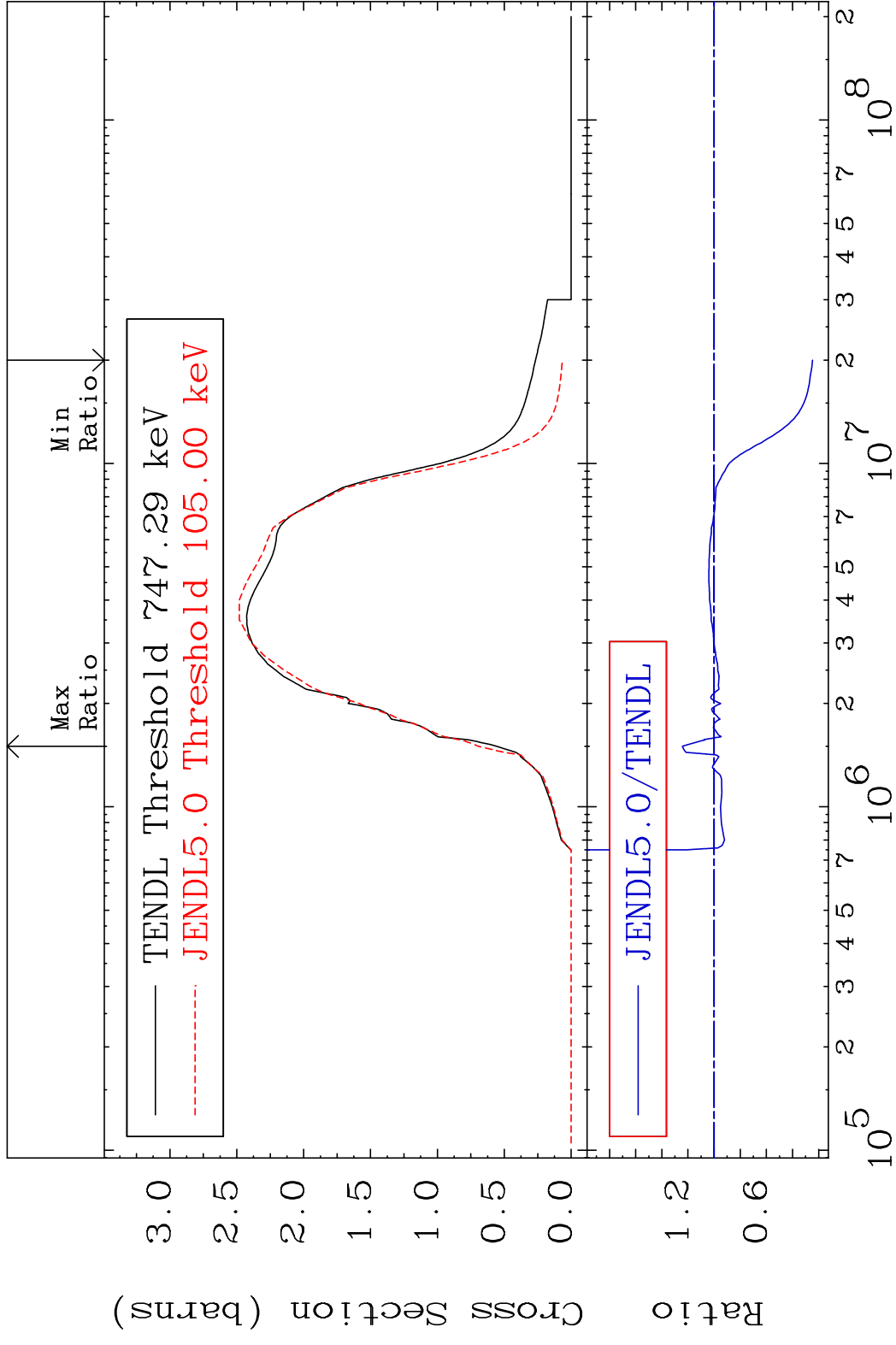
Incident Energy (eV)

60-Nd-143

MAT 6028

Inelastic Cross Section -75.32 To 24.30 %

60-Nd-143

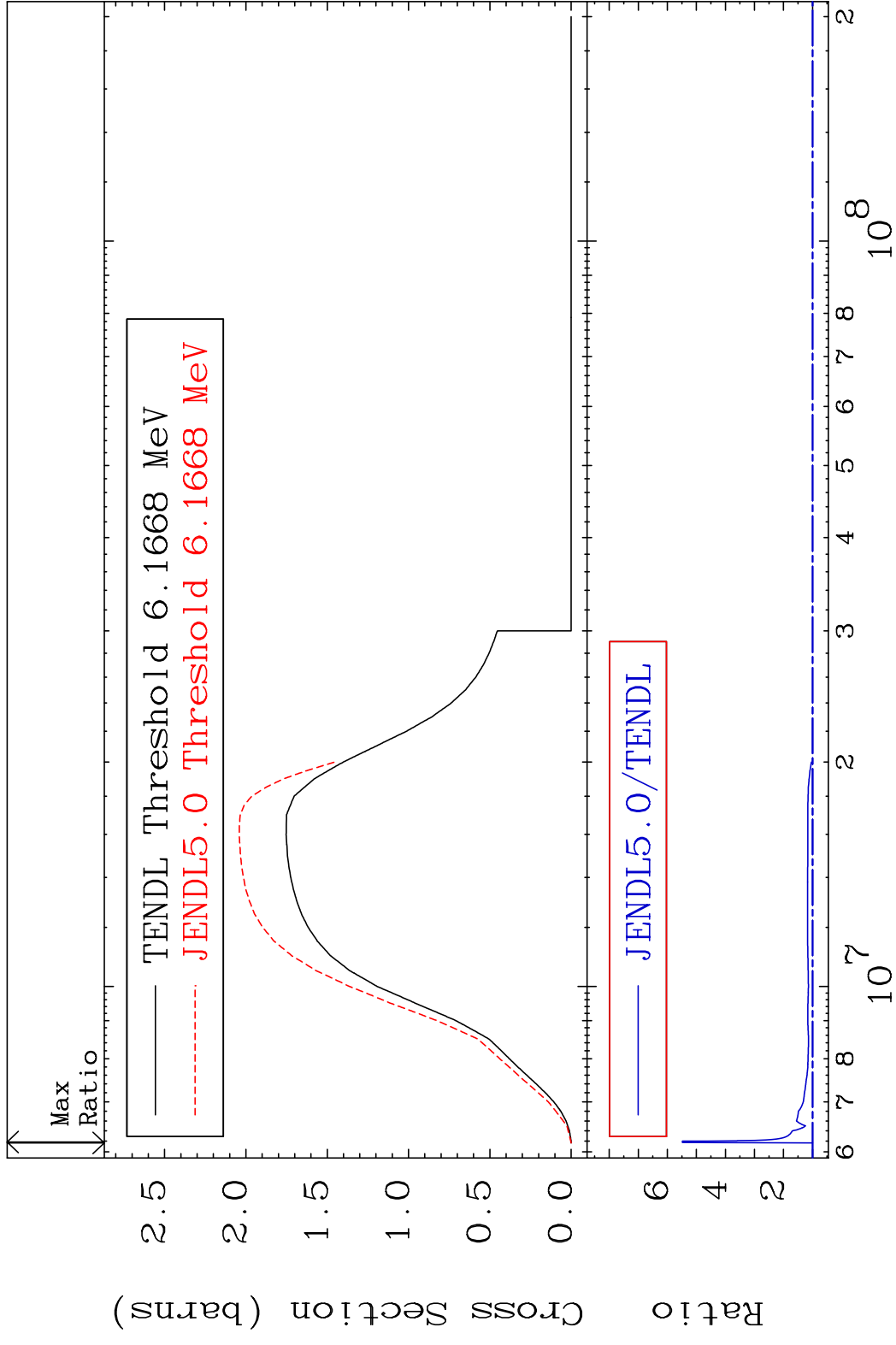


60-Nd-143

Incident Energy (eV)

3

MAT 6028 (n,2n) 60-Nd-143
 Cross Section 0.000 To 448.2 %



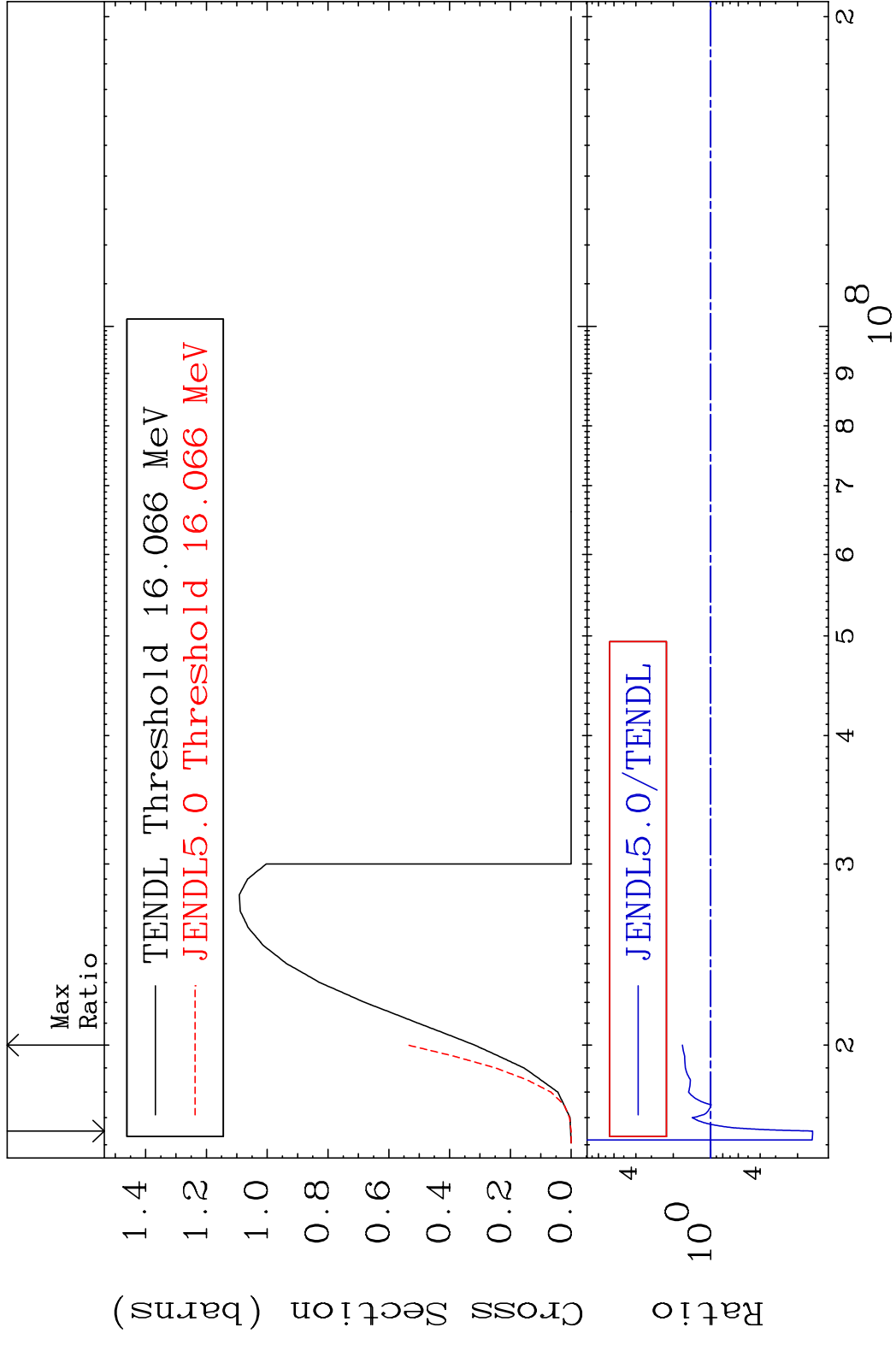
4 Incident Energy (eV) 60-Nd-143

MAT 6028

(n,3n)

60-Nd-143

Cross Section -84.84 To 69.01 %



5

Incident Energy (eV)

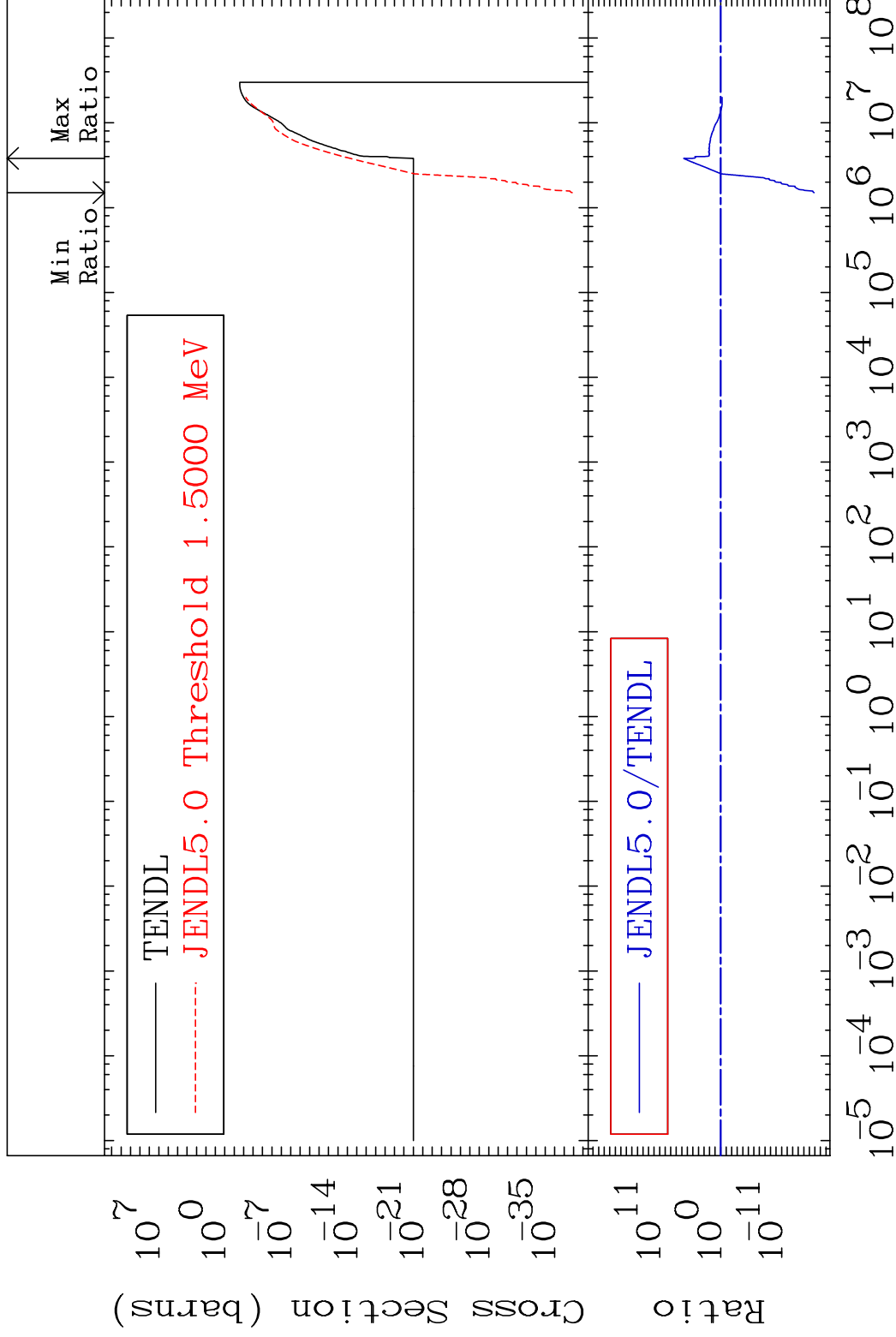
60-Nd-143

MAT 6028

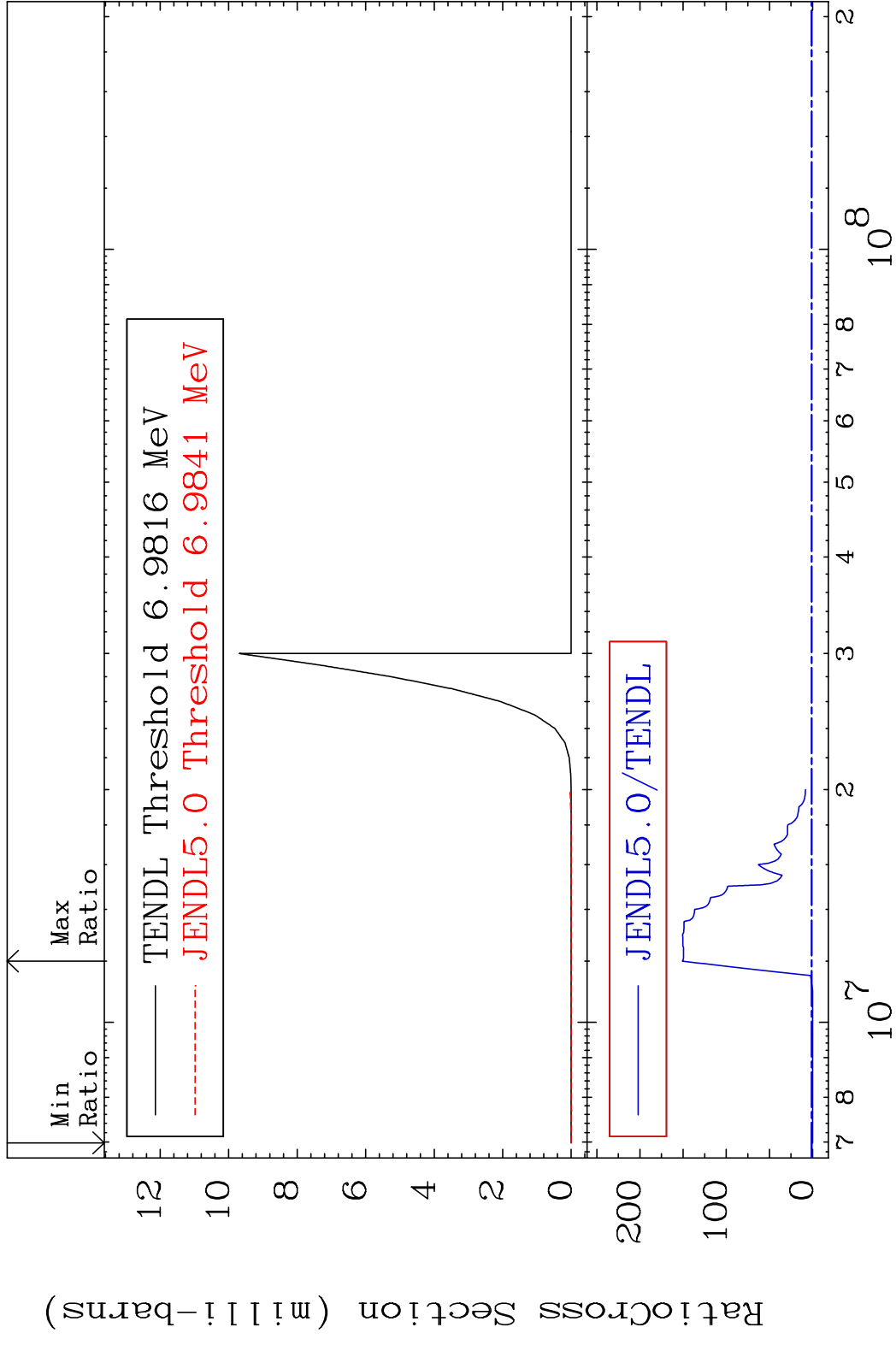
(n, n') α

60-Nd-143

Cross Section -100.0 To 9999. %



MAT 6028 (n,2n) α 60-Nd-143
 Cross Section -100.0 To 9999. %



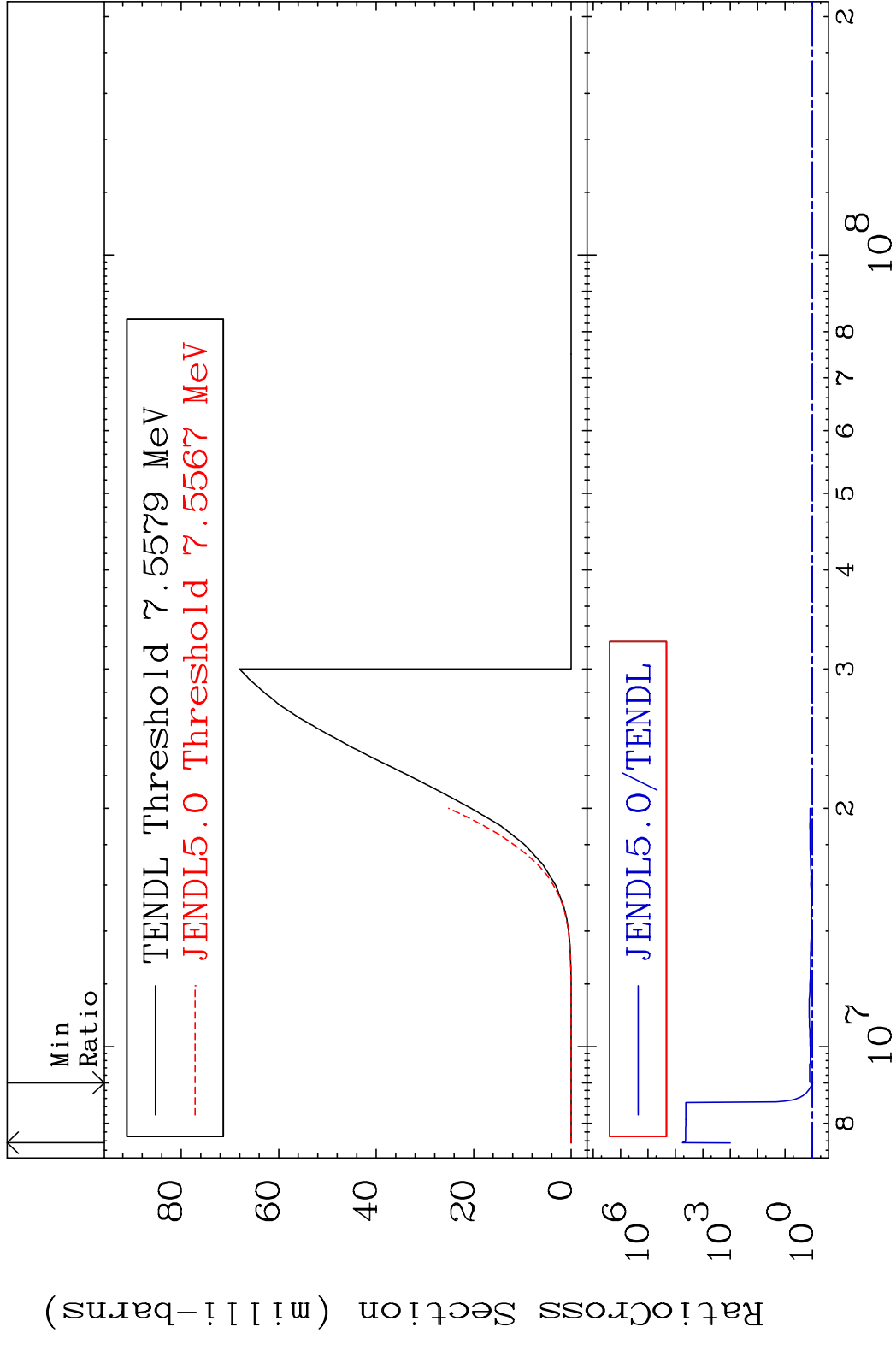
7 8 10⁷ 2 3 4 5 6 7 8 10⁸ 2 60-Nd-143

MAT 6028

(n, n') p

60-Nd-143

Cross Section -0.905 To 9999. %



8

Incident Energy (eV)

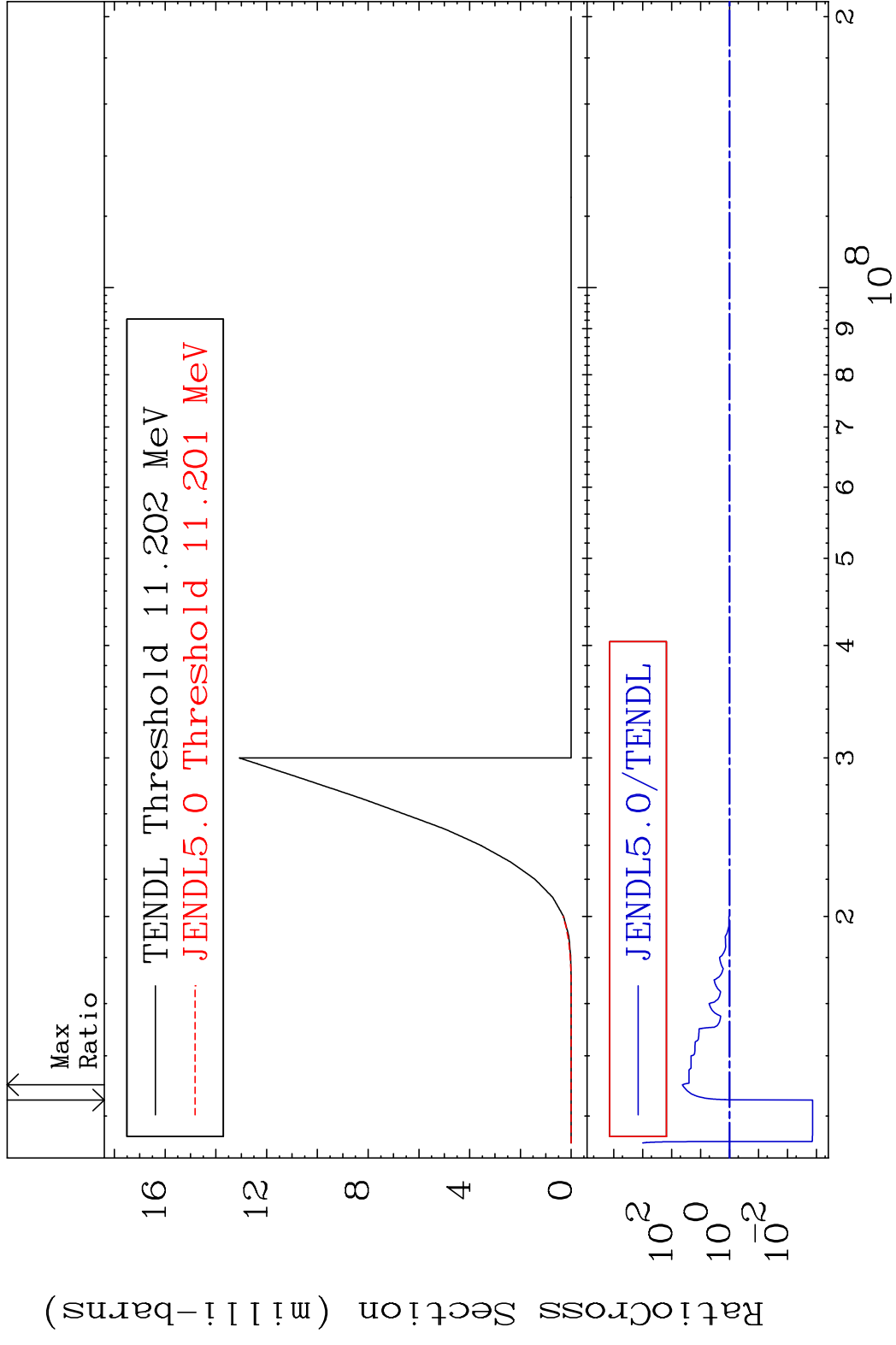
60-Nd-143

MAT 6028

(n, n') d

60-Nd-143

Cross Section -99.86 To 4191. %

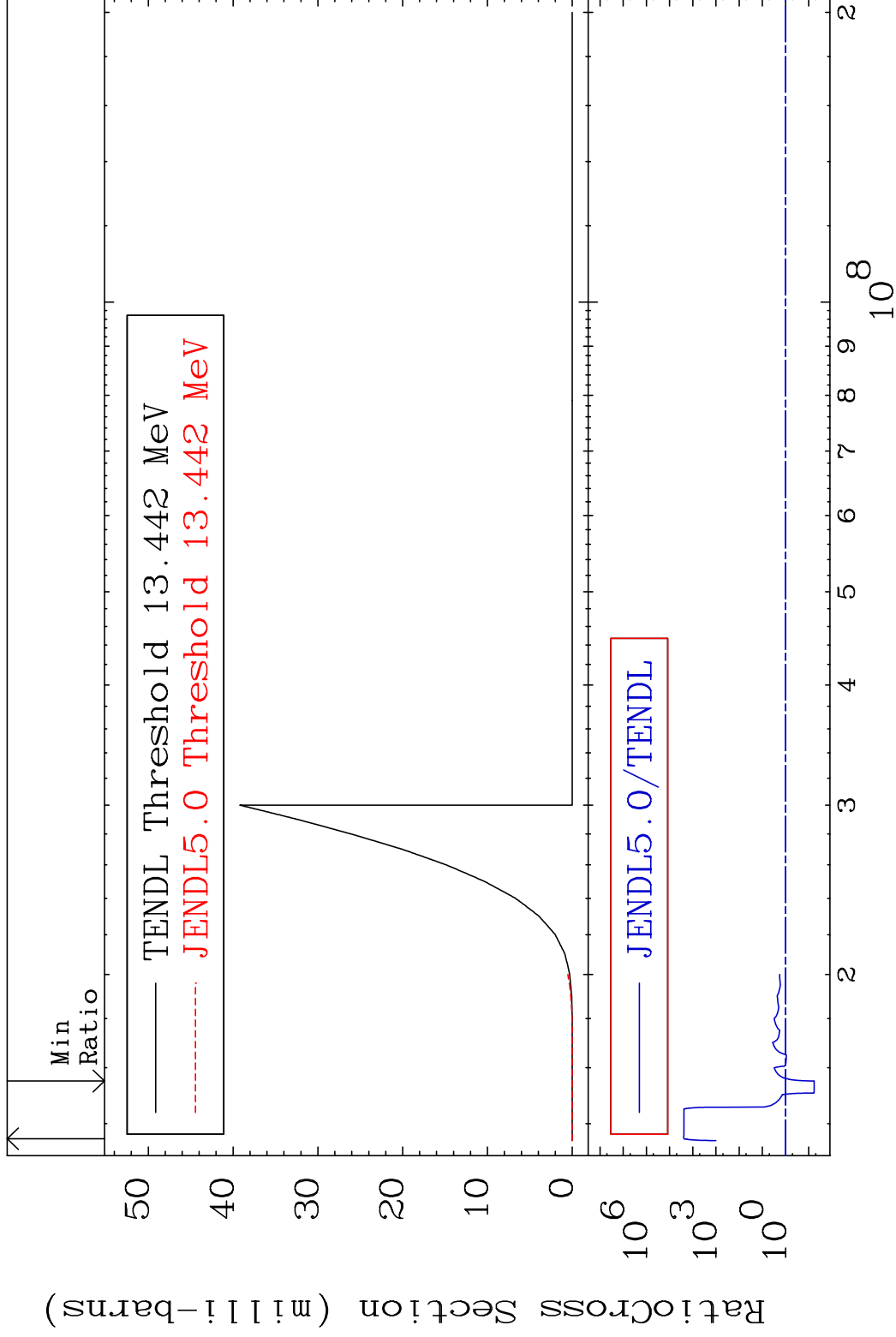


MAT 6028

(n,2n) p

60-Nd-143

Cross Section -94.16 To 9999. %

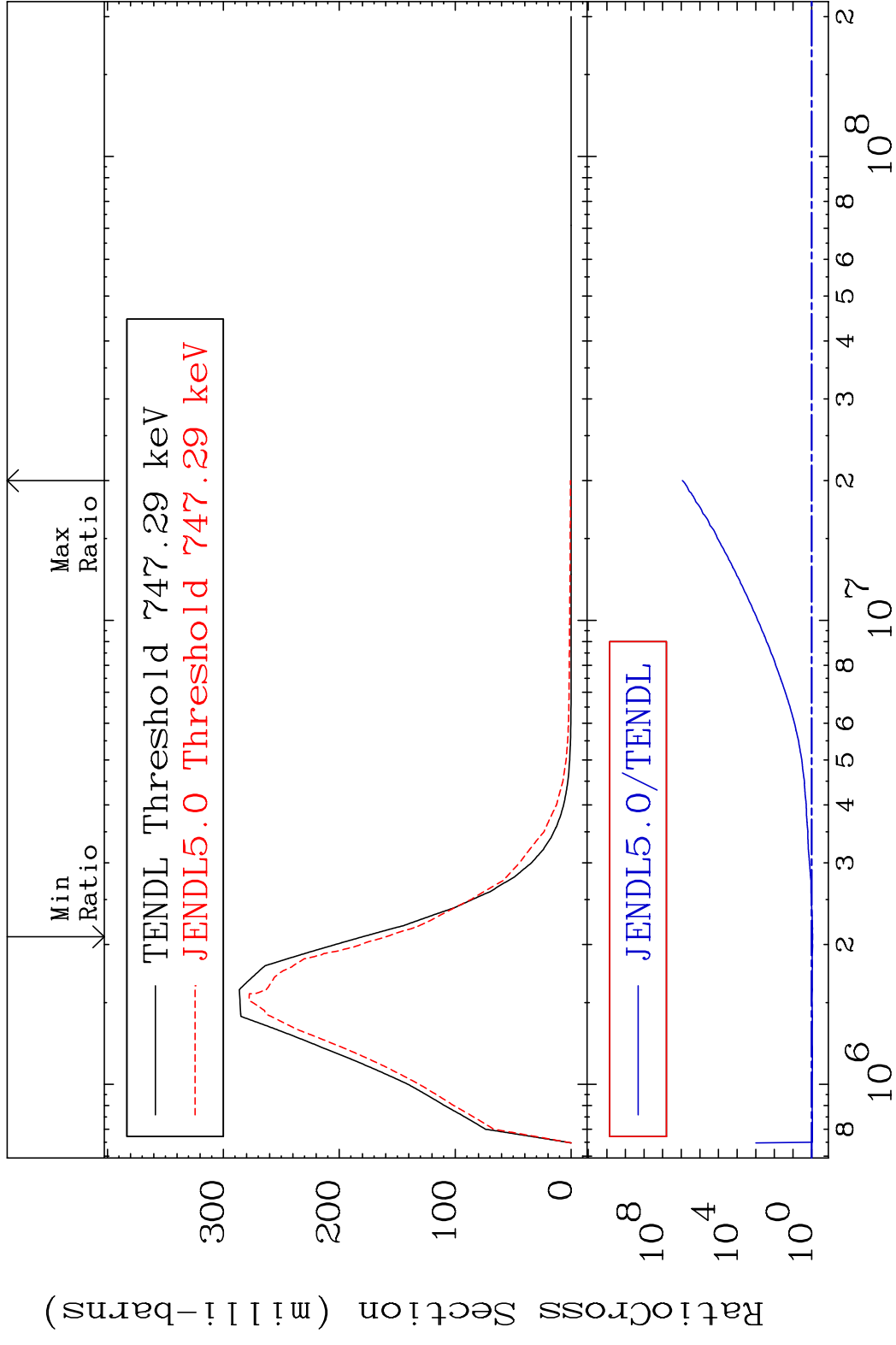


10

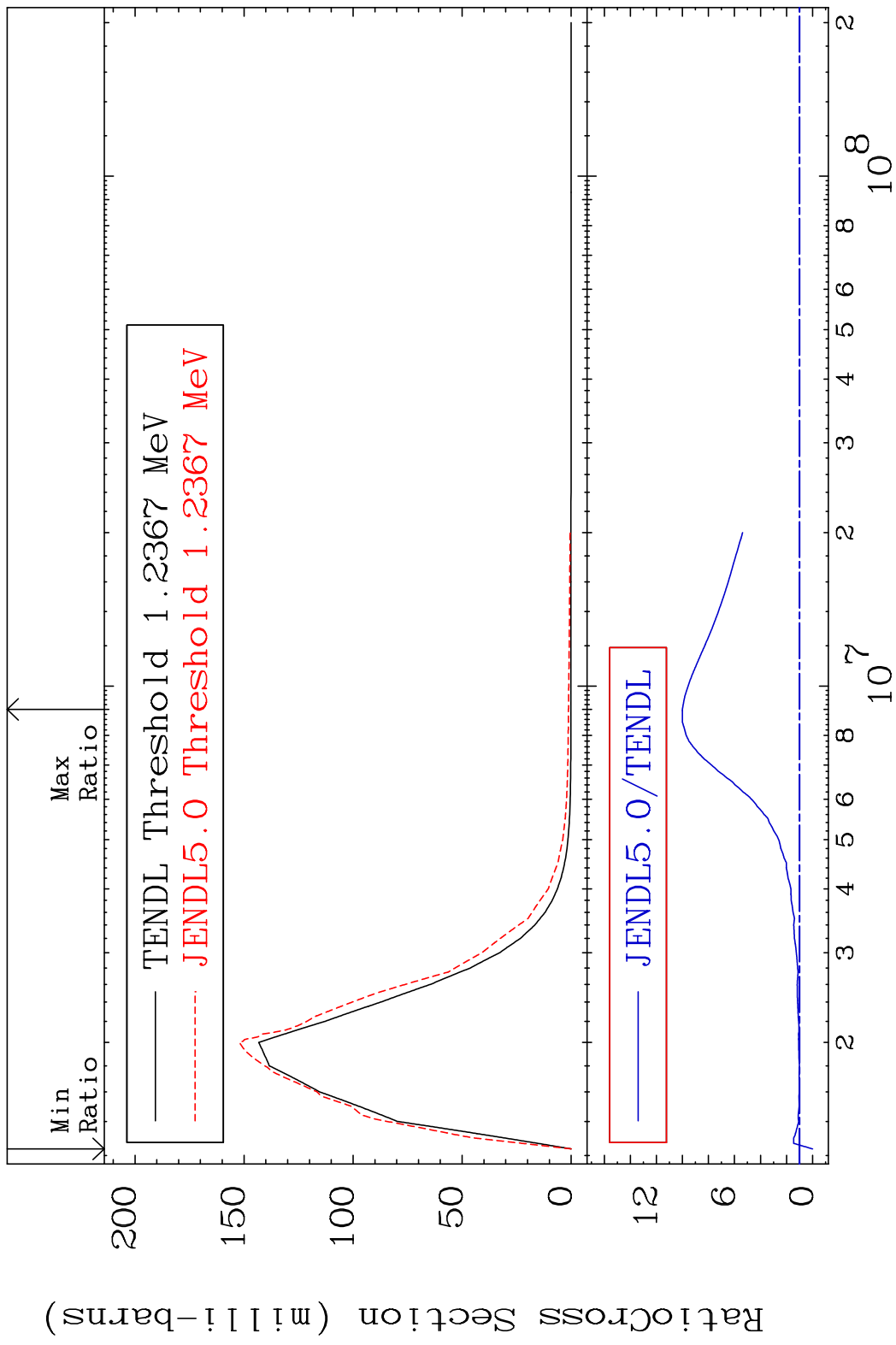
Incident Energy (eV)

60-Nd-143

MAT 6028 MT= 51 (n, n') Level 60-Nd-143
 Cross Section -11.35 To 9999. %

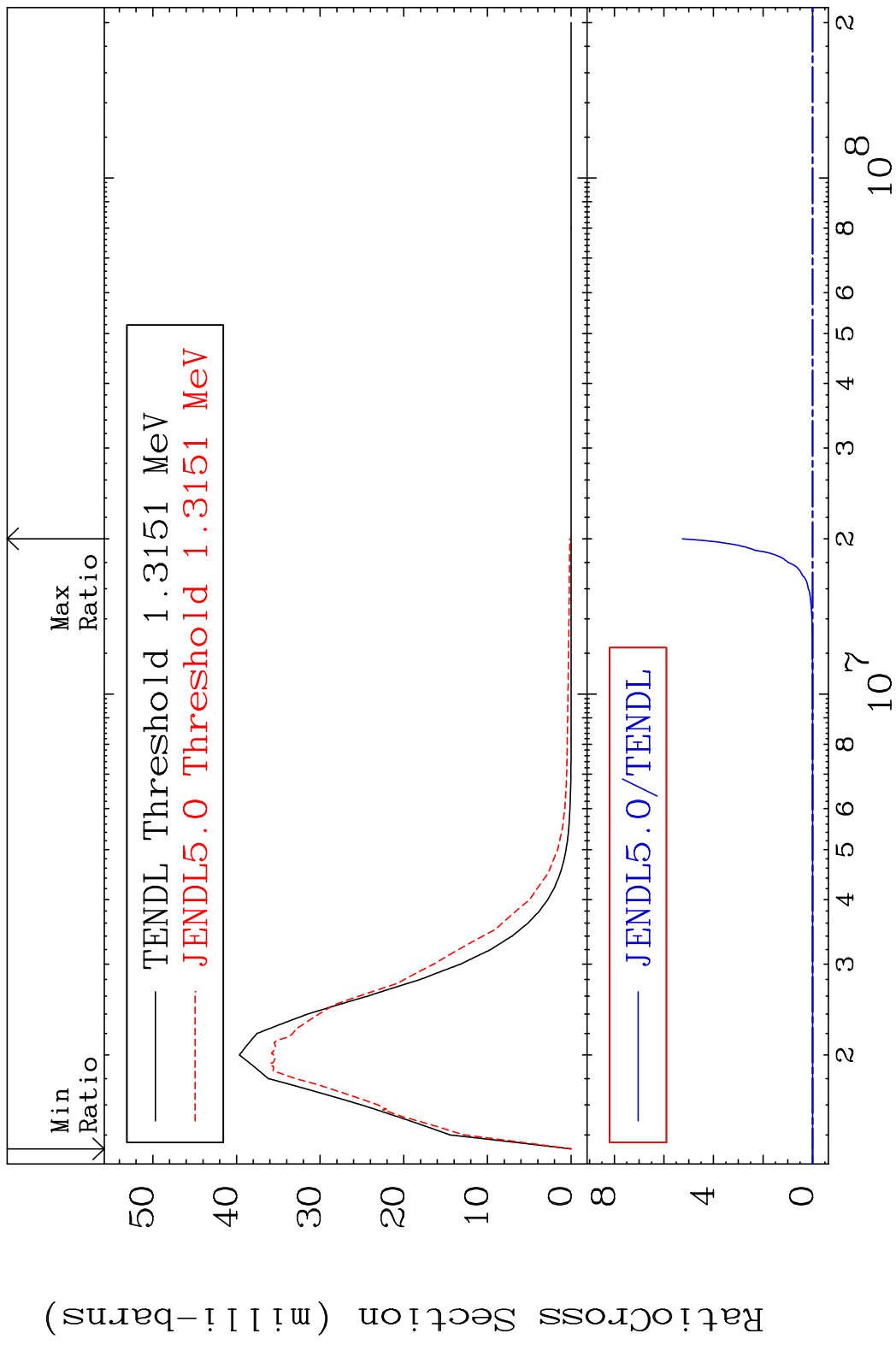


MAT 6028 MT= 52 (n, n') Level 60-Nd-143
 Cross Section -100.0 To 900.4 %

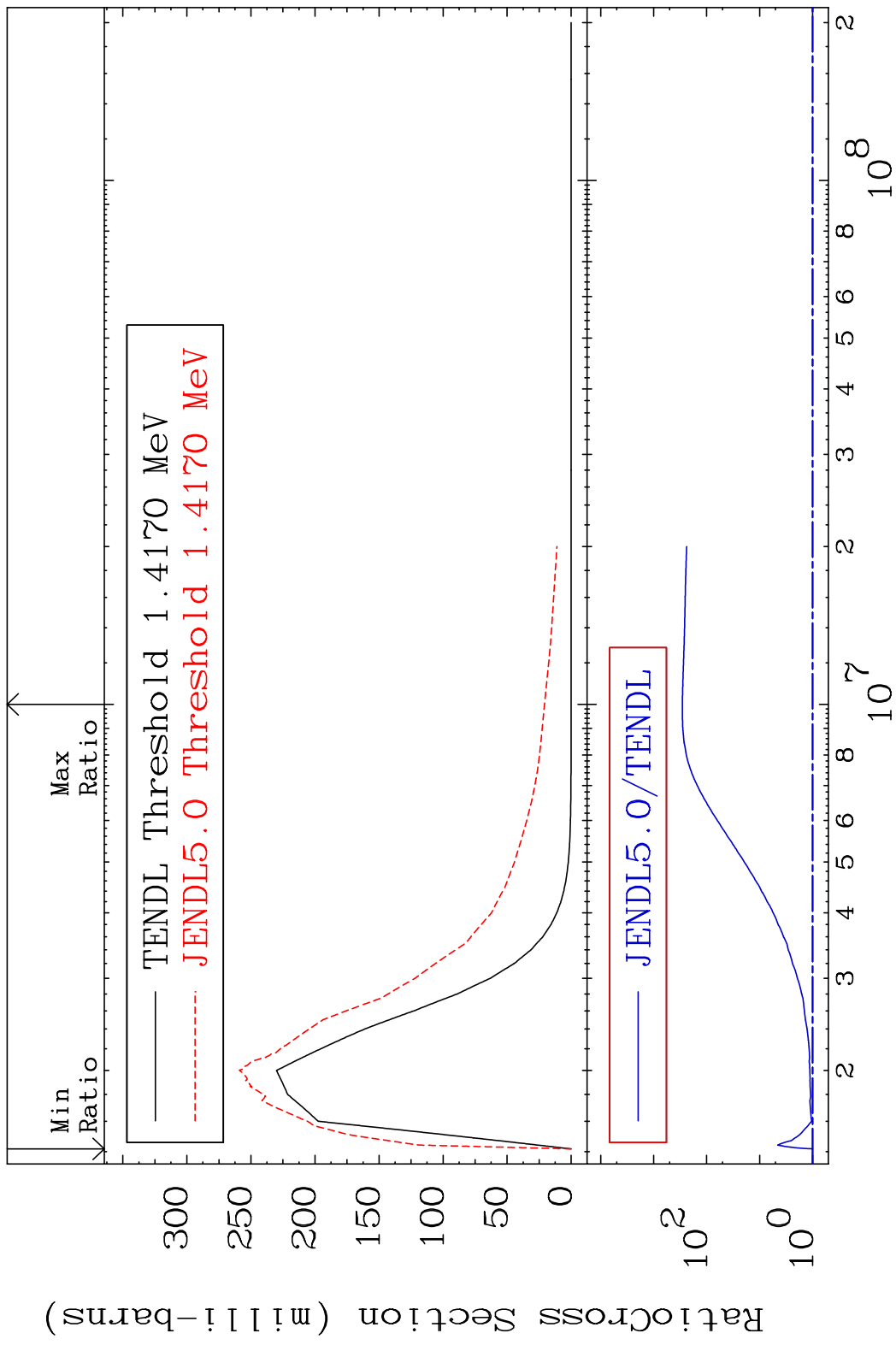


12 60-Nd-143

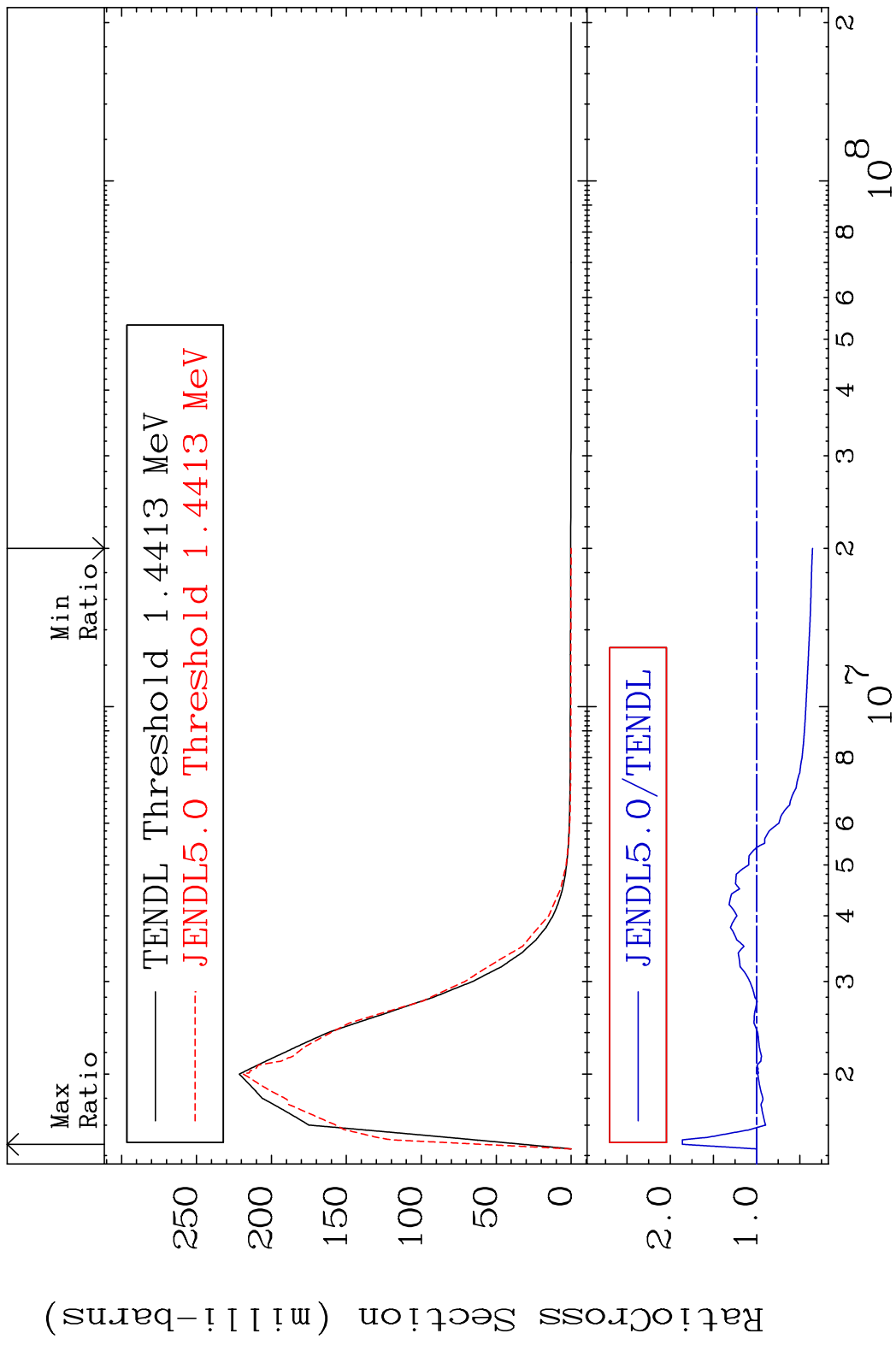
MAT 6028 MT= 53 (n, n') Level 60-Nd-143
 Cross Section -100.0 To 9999. %



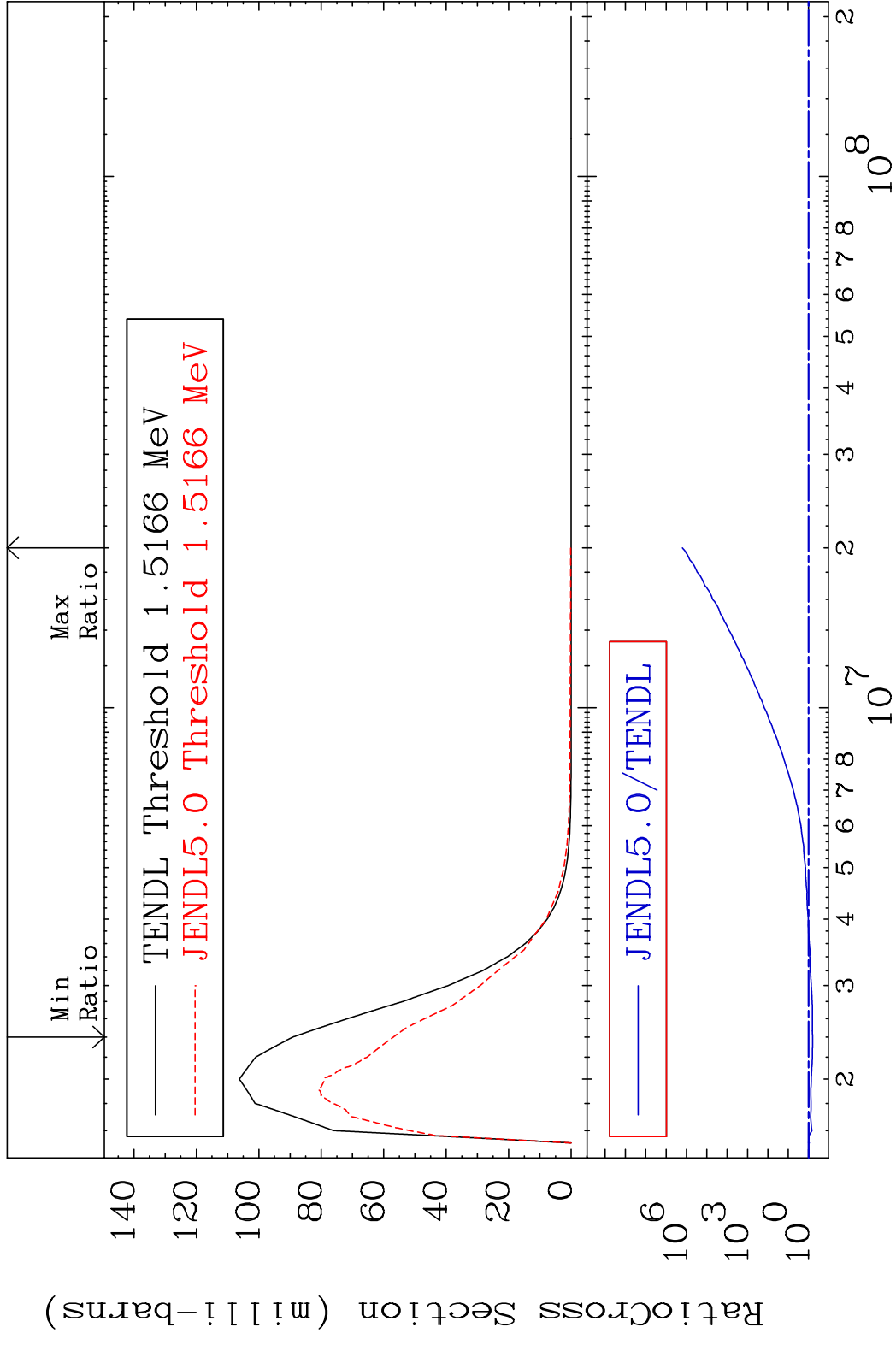
MAT 6028 MT= 54 (n, n') Level 60-Nd-143
 Cross Section 0.000 To 9999. %



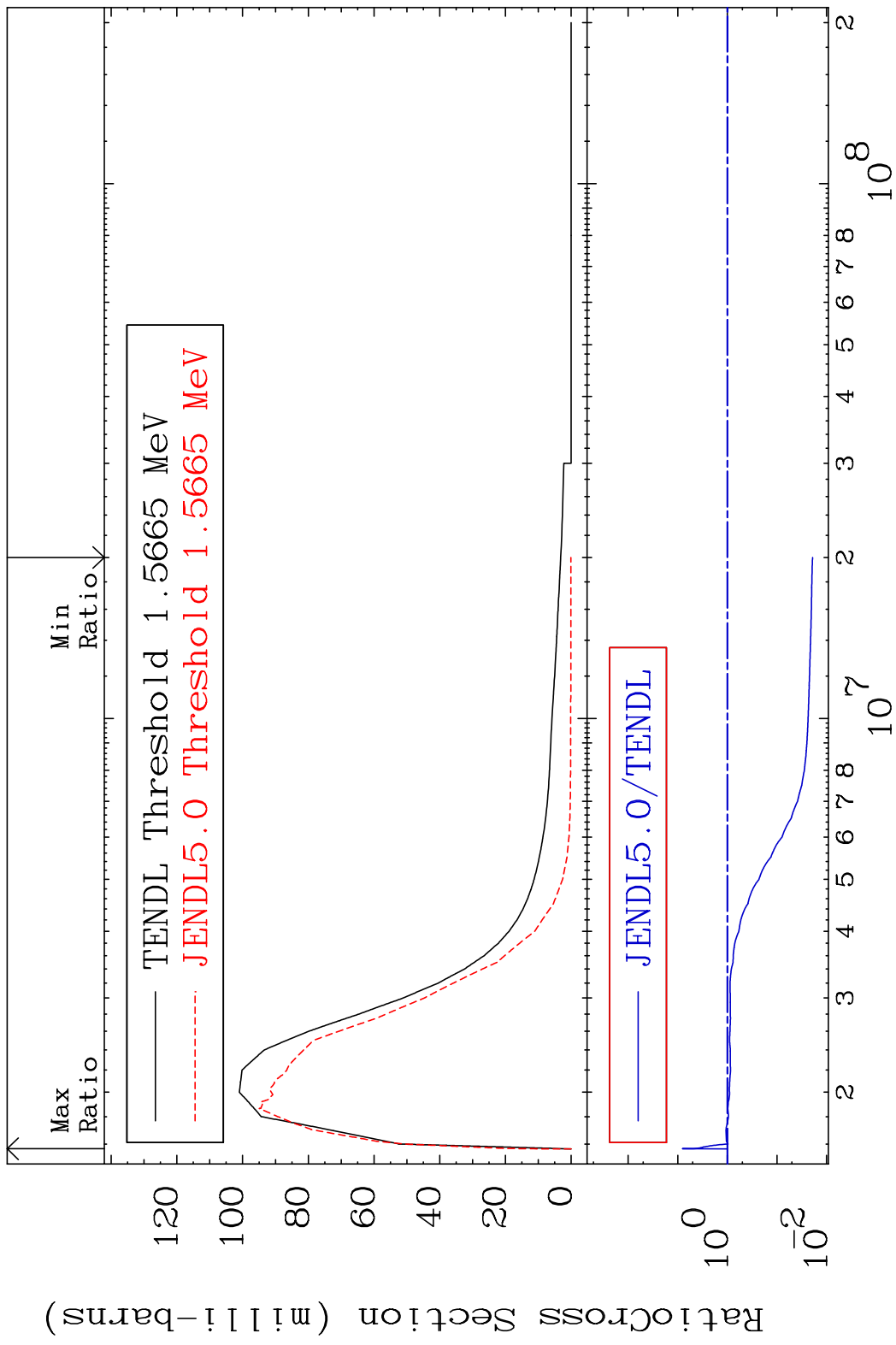
MAT 6028 MT= 55 (n,n') Level 60-Nd-143
 Cross Section -64.72 To 86.00 %



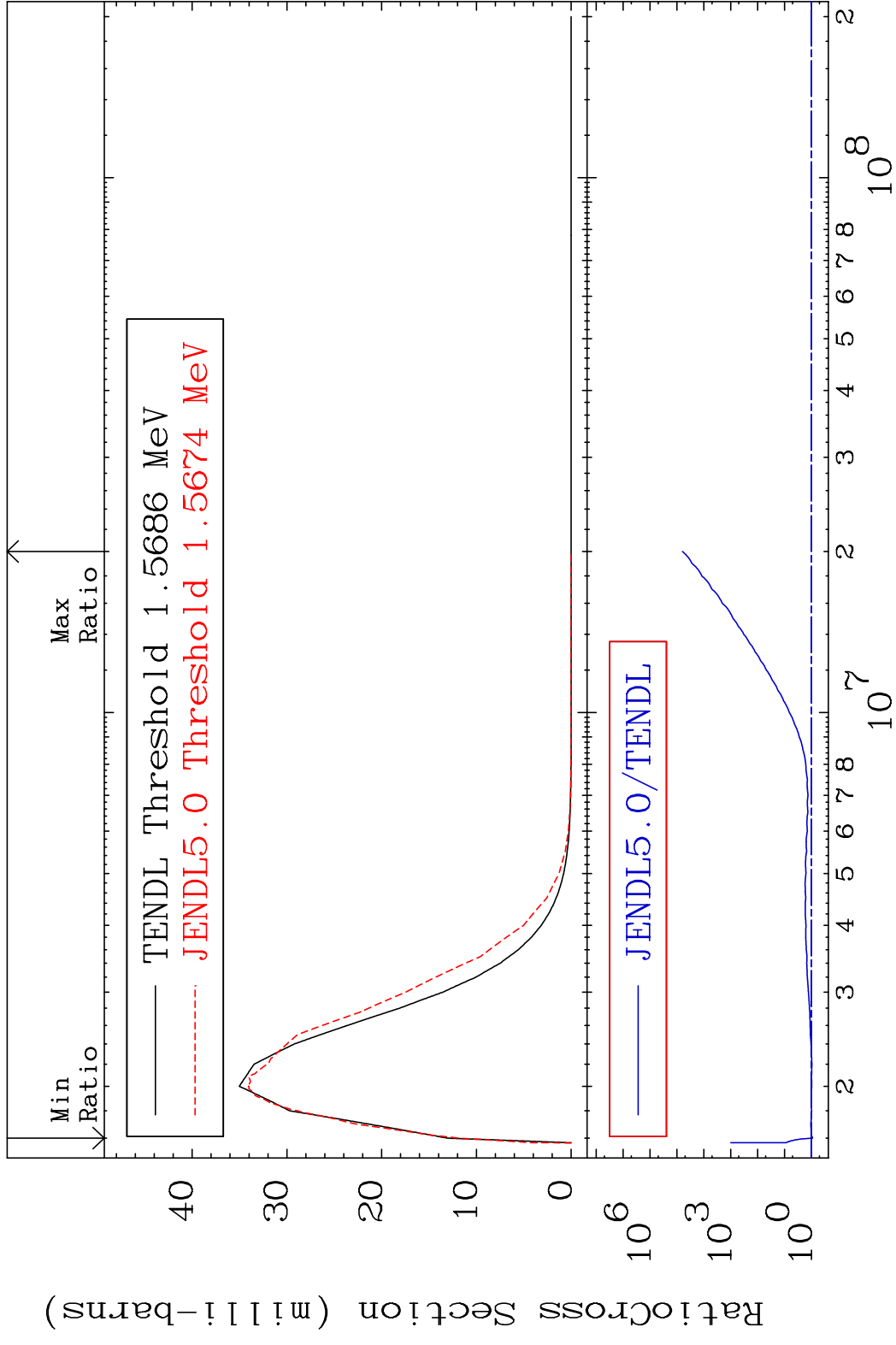
MAT 6028 MT= 56 (n, n') Level 60-Nd-143
 Cross Section -36.12 To 9999. %



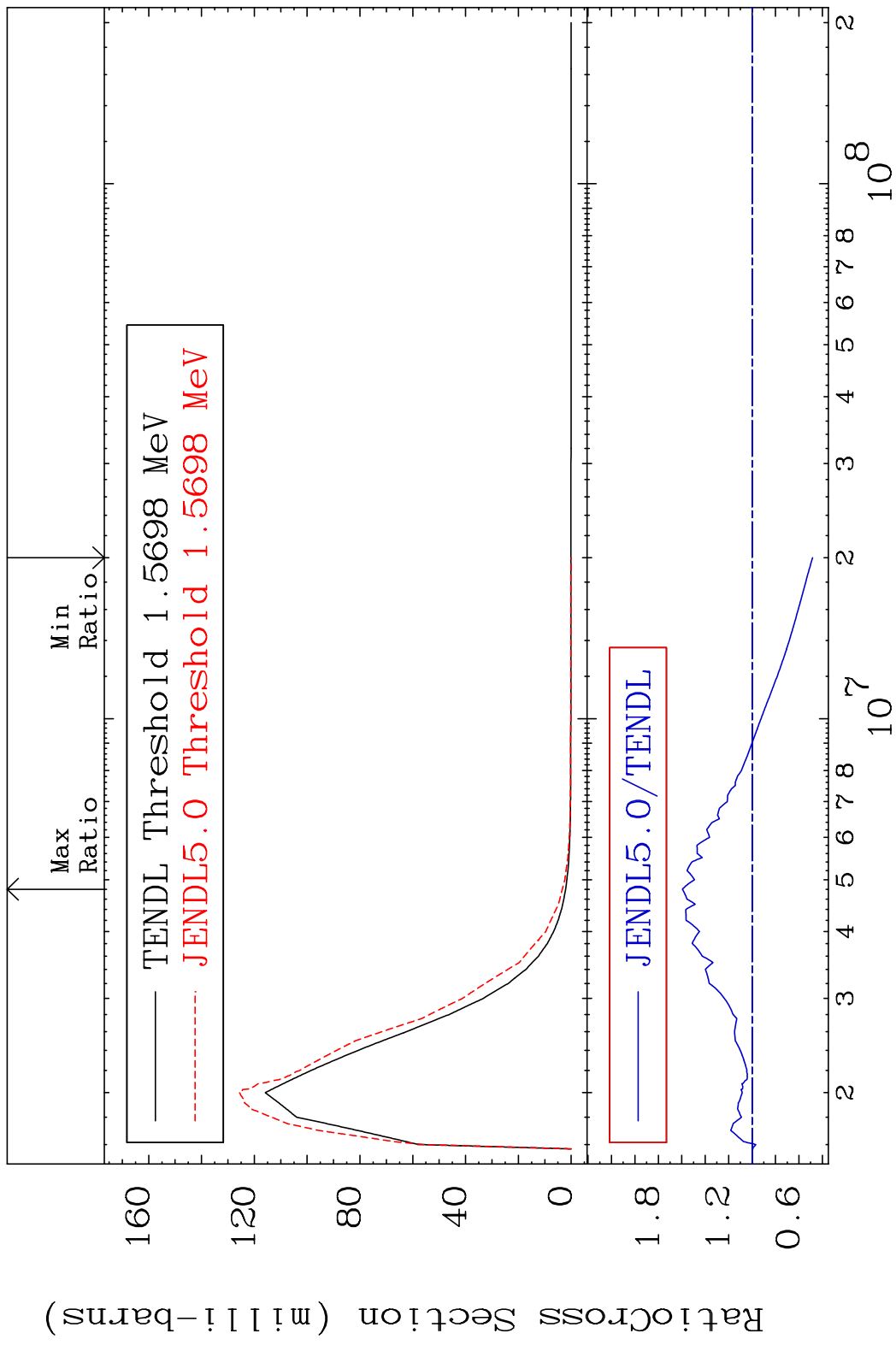
MAT 6028 MT= 57 (n, n') Level 60-Nd-143
 Cross Section -98.08 To 707.5 %



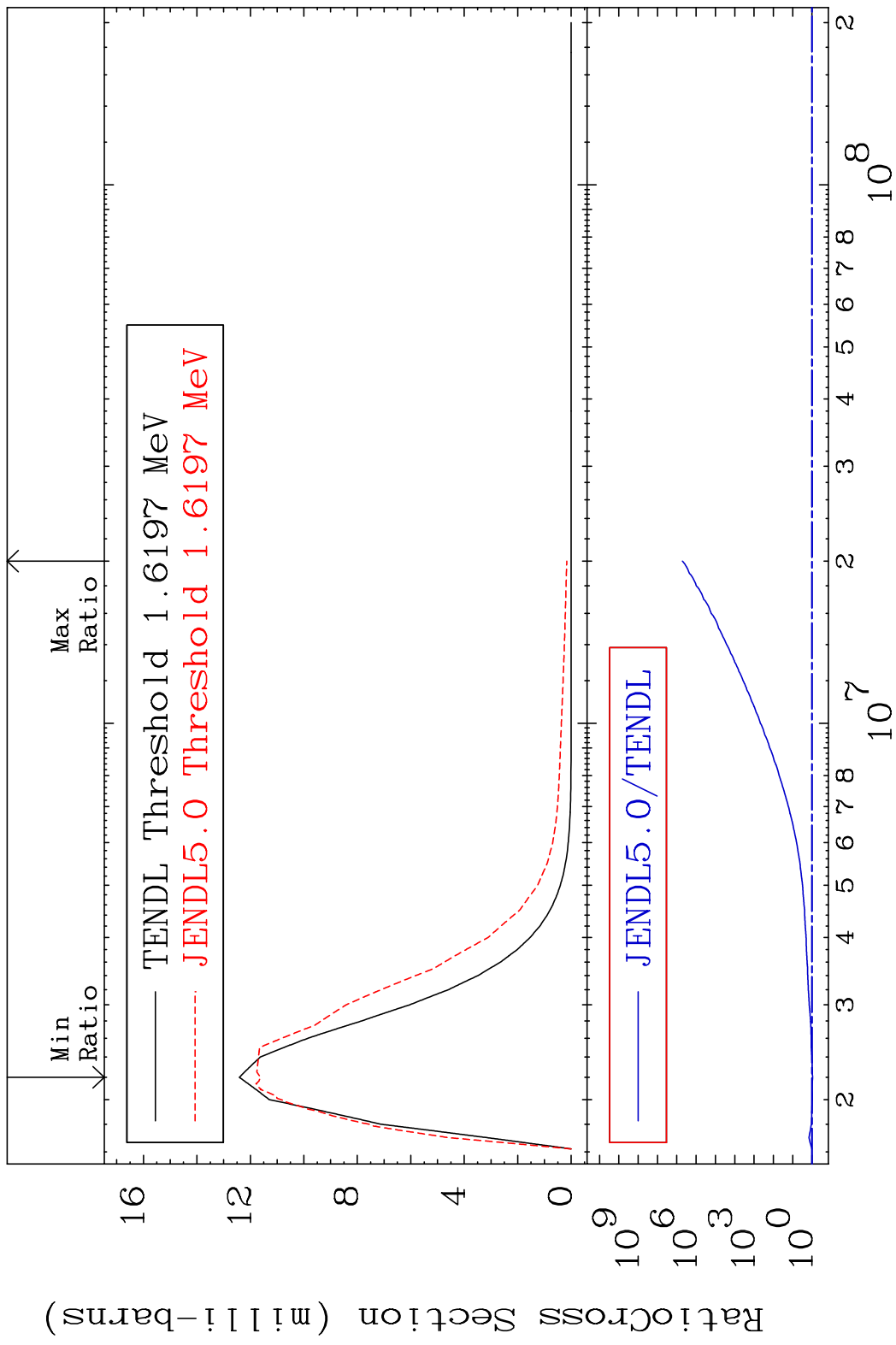
MAT 6028 MT= 58 (n, n') Level 60-Nd-143
 Cross Section -9.447 To 9999. %



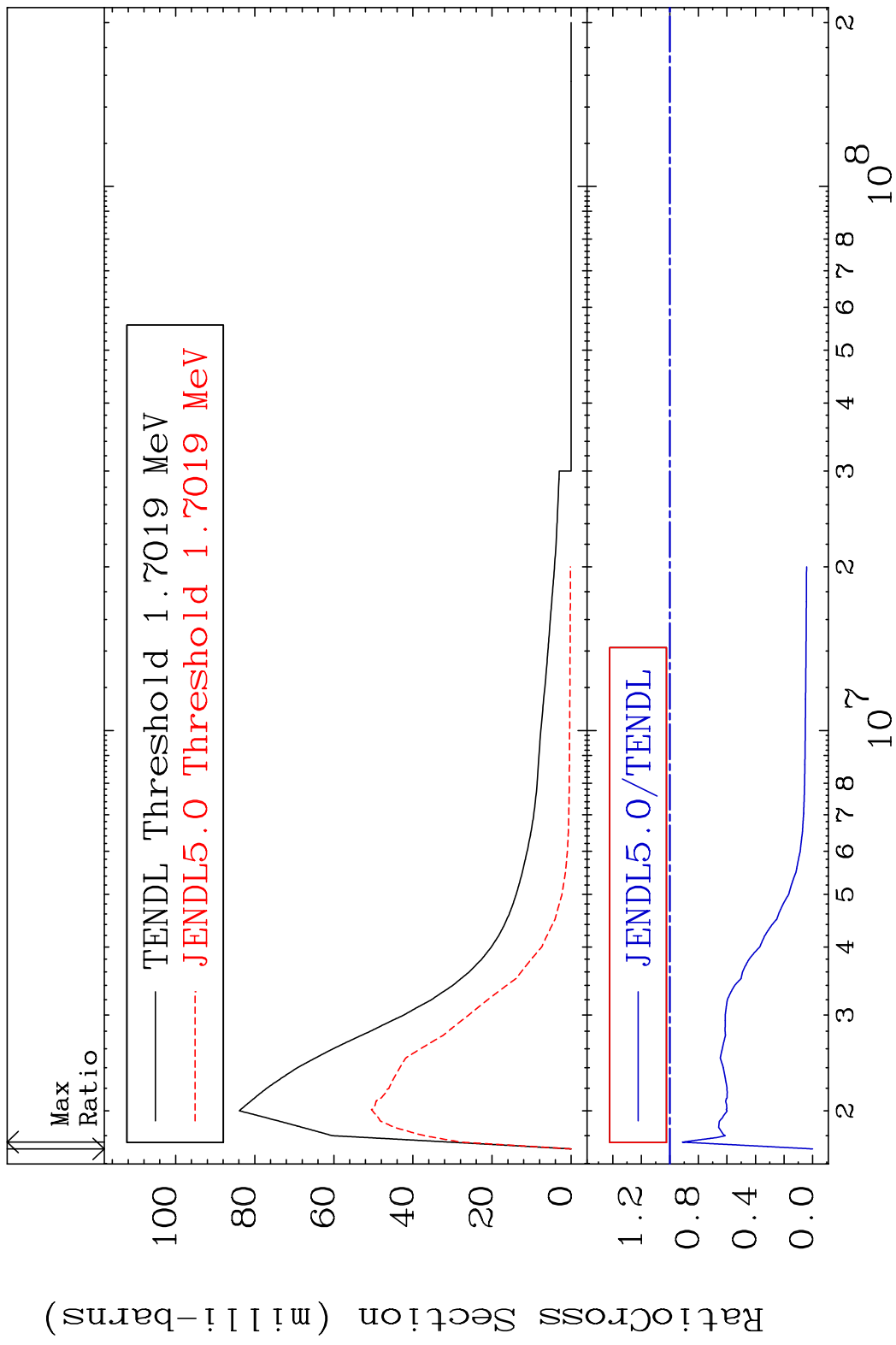
MAT 6028 MT= 59 (n, n') Level 60-Nd-143
 Cross Section -51.62 To 59.50 %



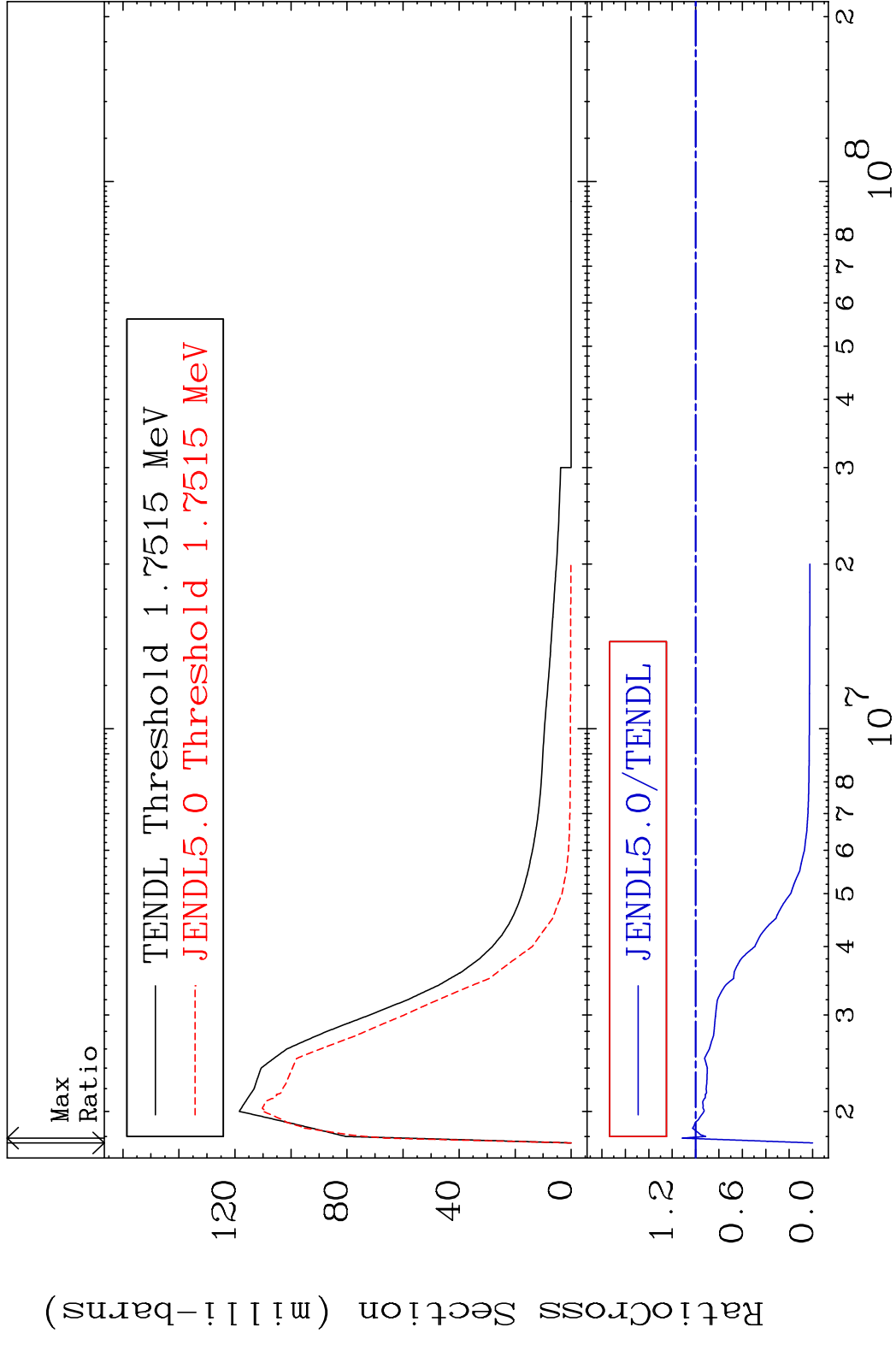
MAT 6028 MT= 60 (n, n') Level 60-Nd-143
 Cross Section -6.402 To 9999. %



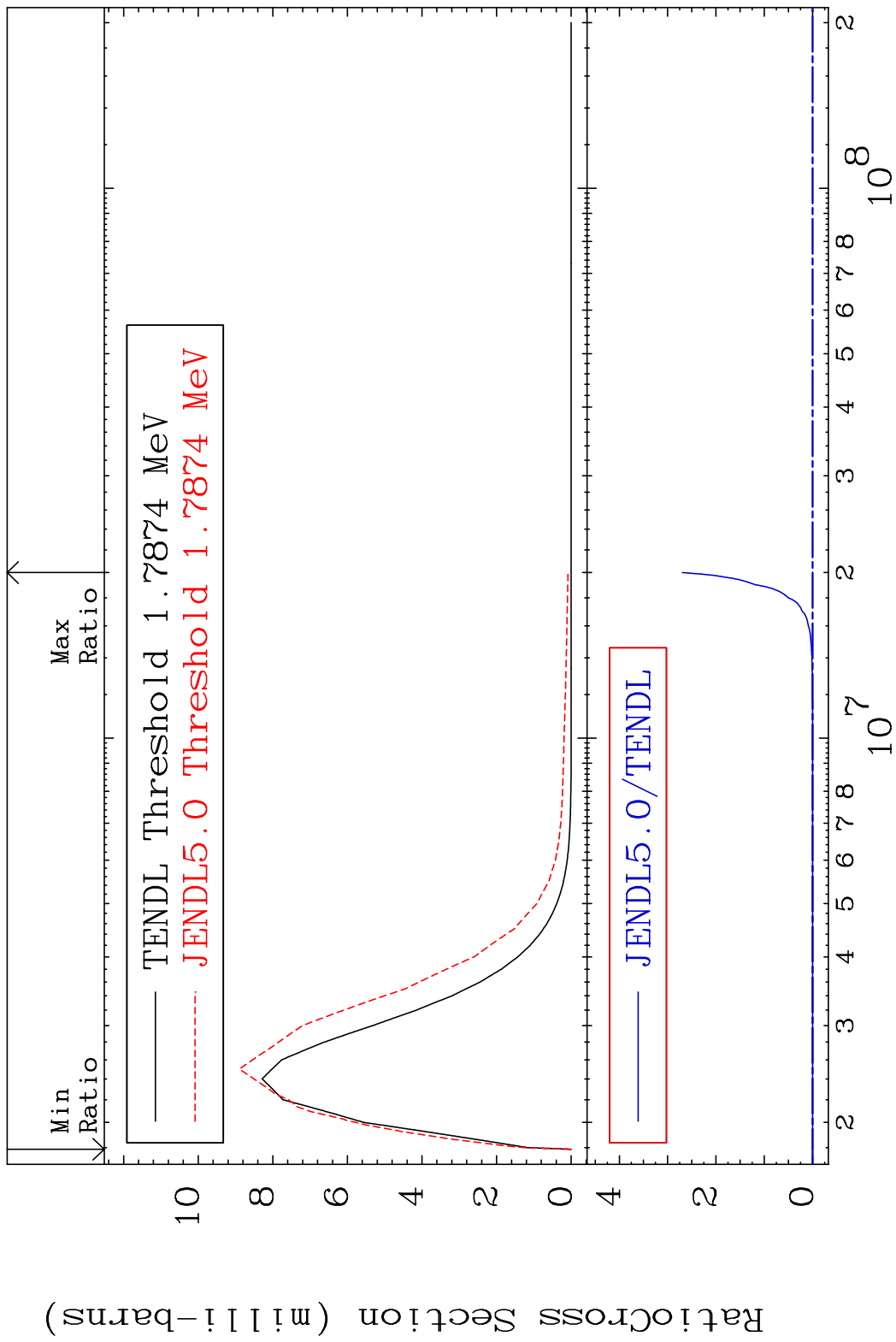
MAT 6028 MT= 61 (n,n') Level 60-Nd-143
 Cross Section -100.0 To -8.748%



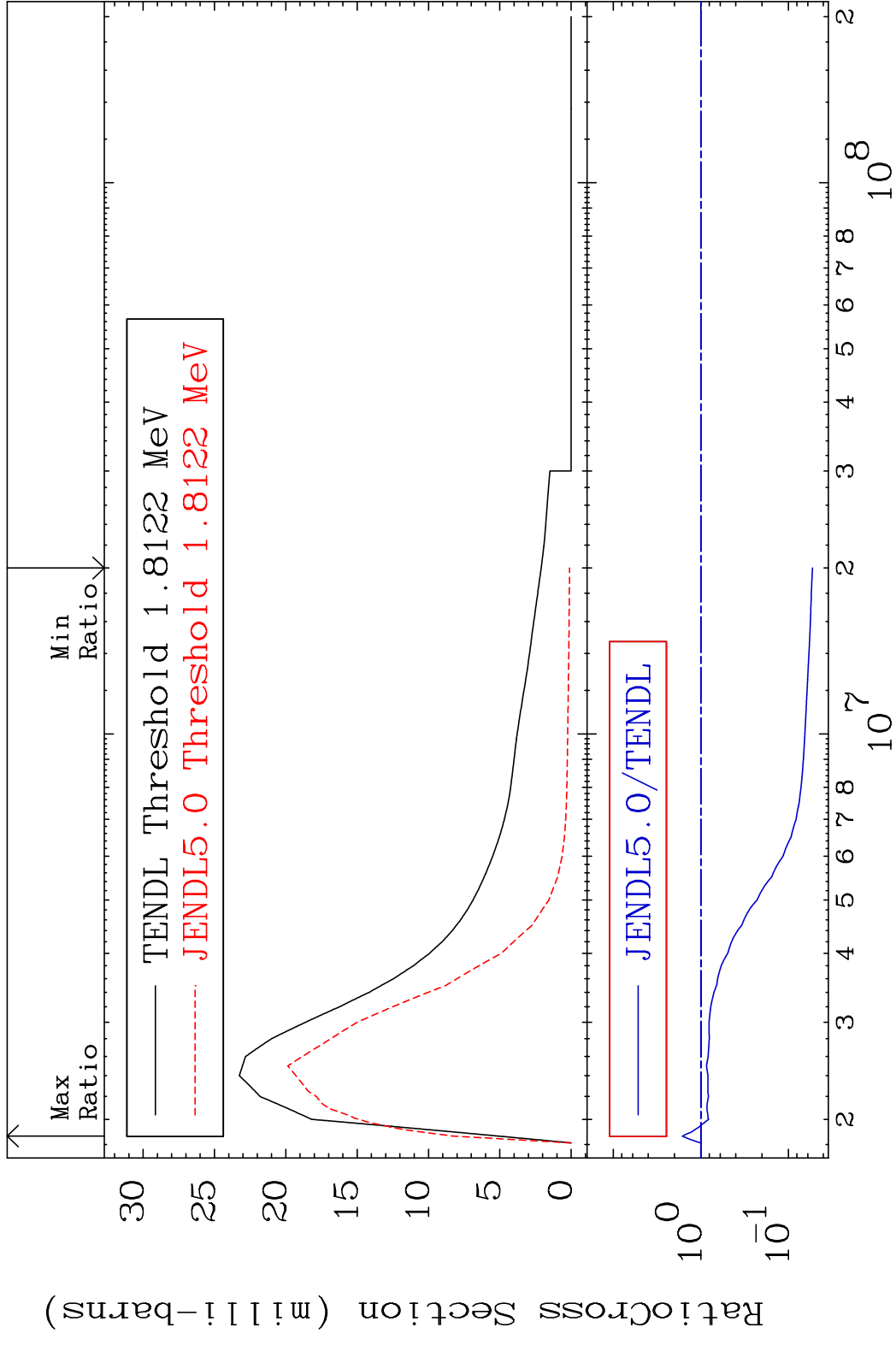
MAT 6028 MT= 62 (n, n') Level 60-Nd-143
 Cross Section -100.0 To 11.31 %



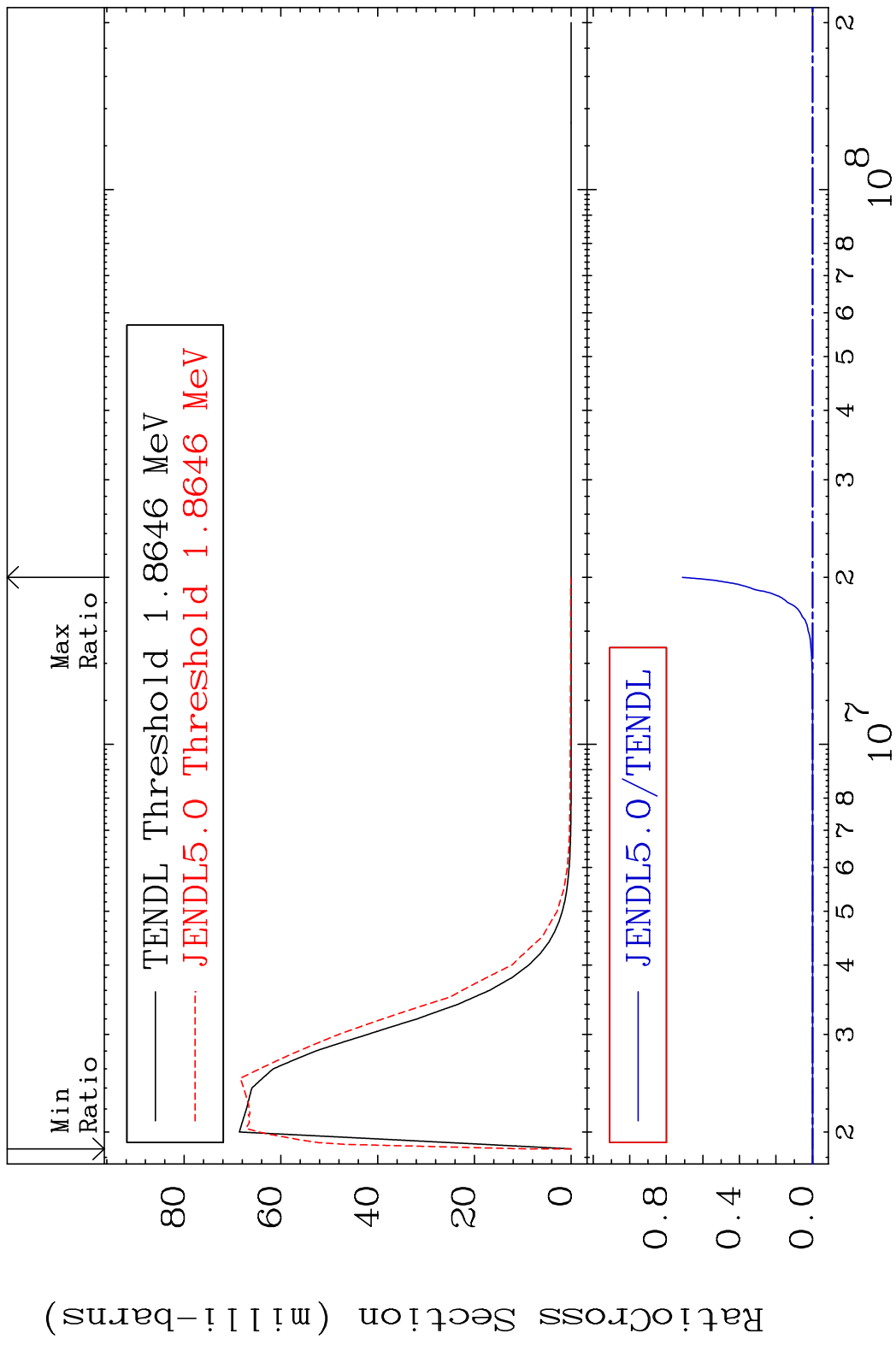
MAT 6028 MT= 63 (n, n') Level 60-Nd-143
 Cross Section -100.0 To 9999. %



MAT 6028 MT= 64 (n, n') Level 60-Nd-143
 Cross Section -94.70 To 62.64 %

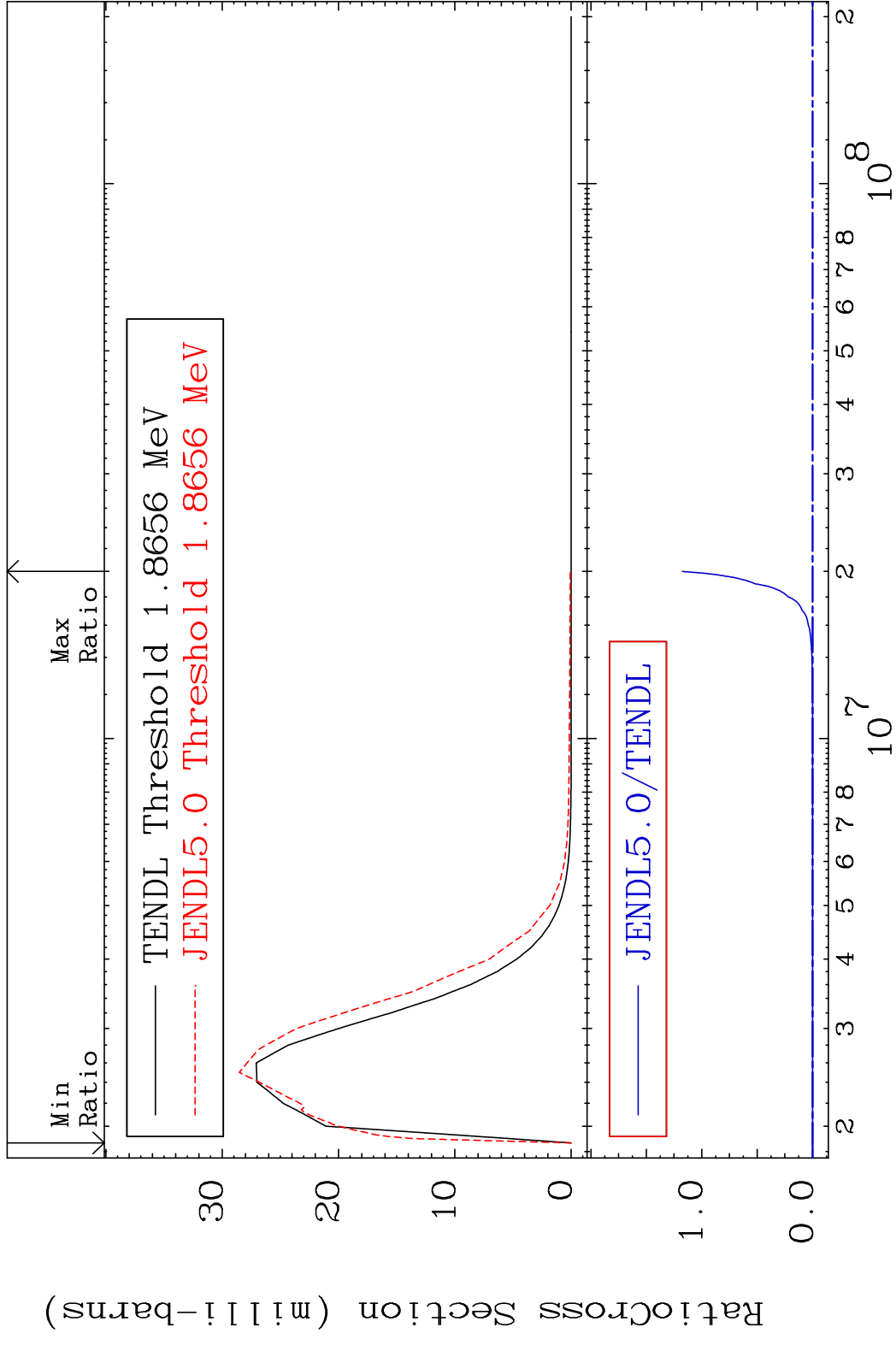


MAT 6028 MT= 65 (n, n') Level 60-Nd-143
 Cross Section -100.0 To 9999. %

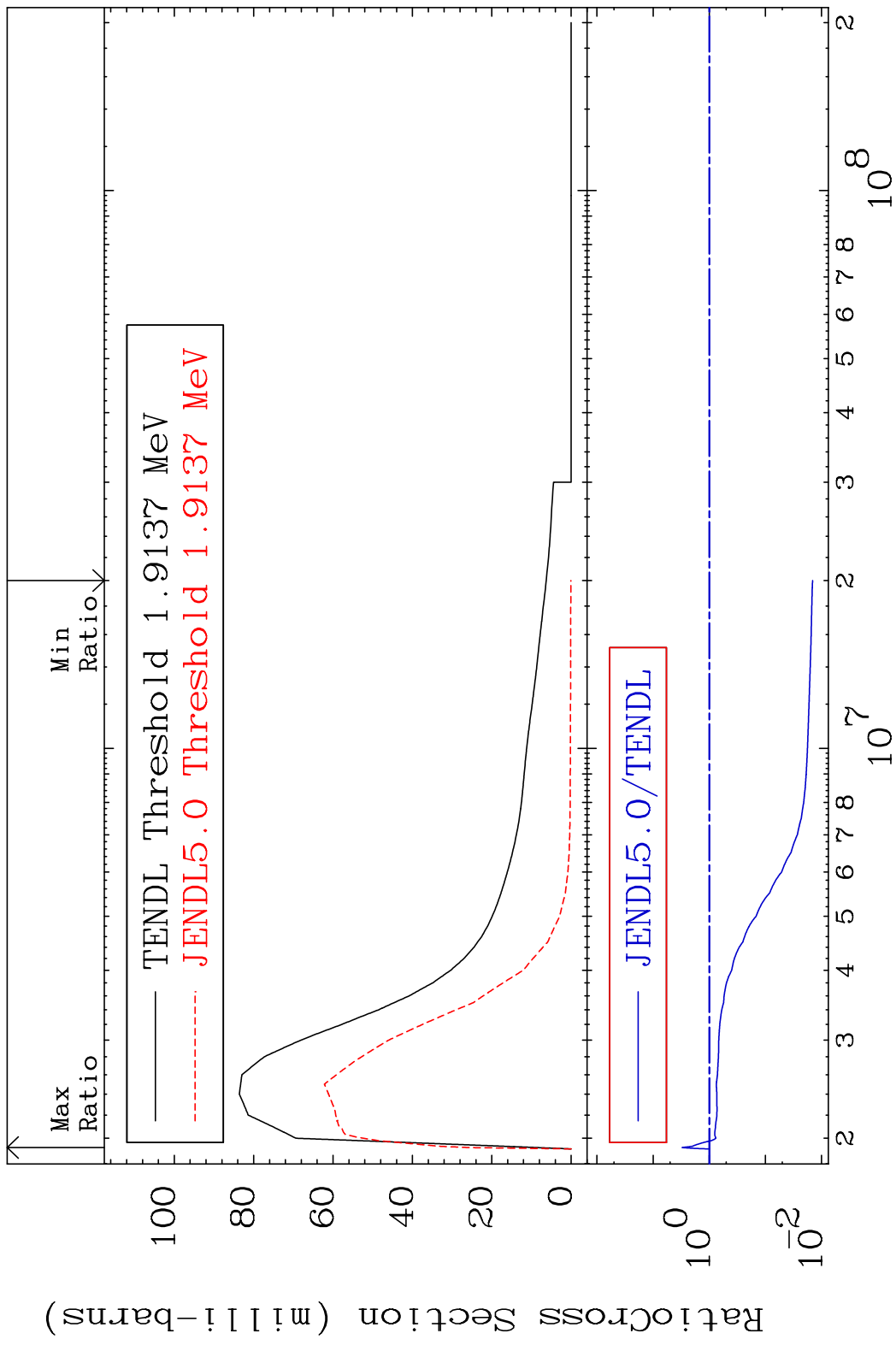


25 60-Nd-143

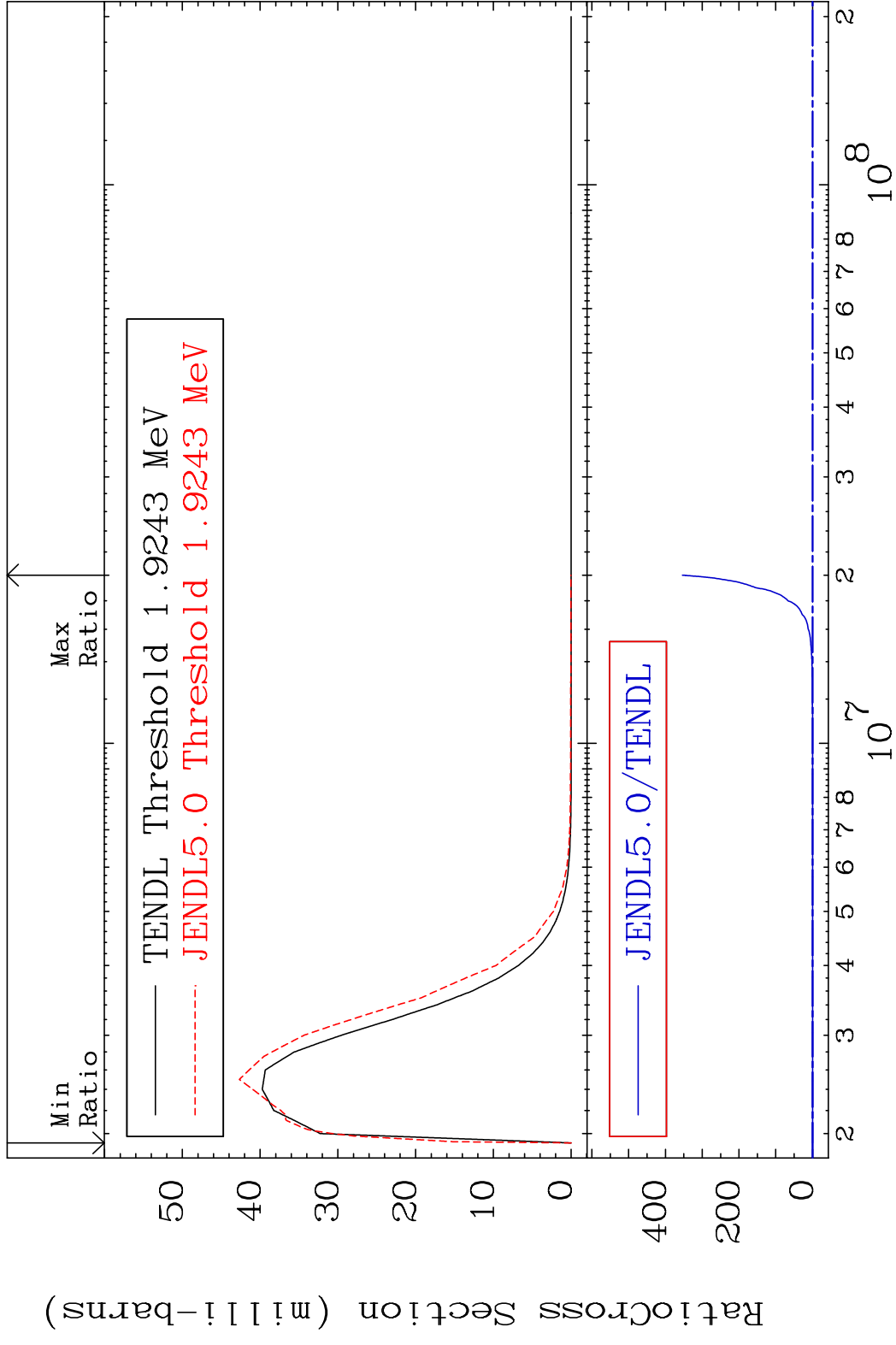
MAT 6028 MT= 66 (n, n') Level 60-Nd-143
 Cross Section -100.0 To 9999. %



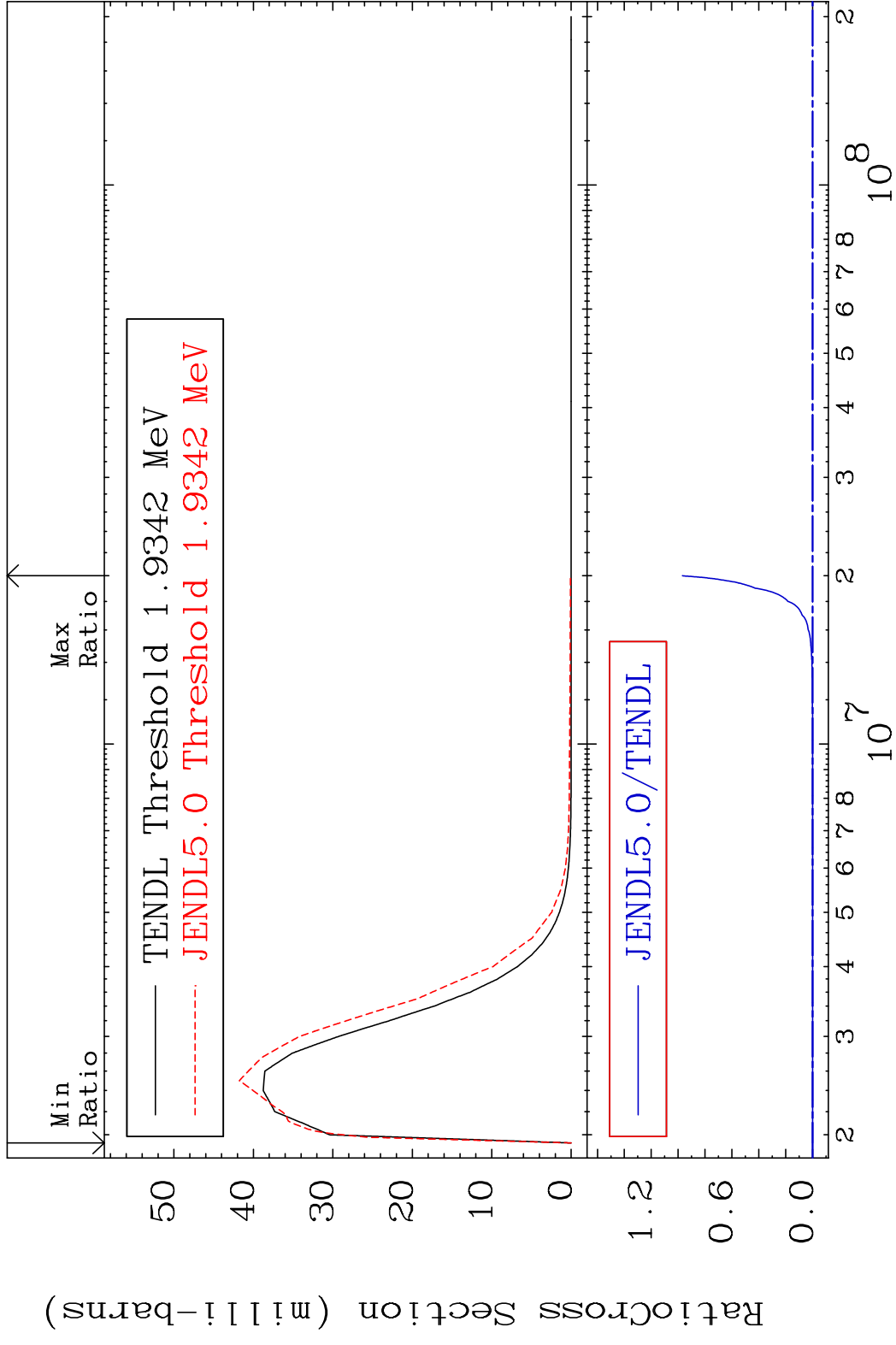
MAT 6028 MT= 67 (n, n') Level 60-Nd-143
 Cross Section -98.56 To 200.9 %



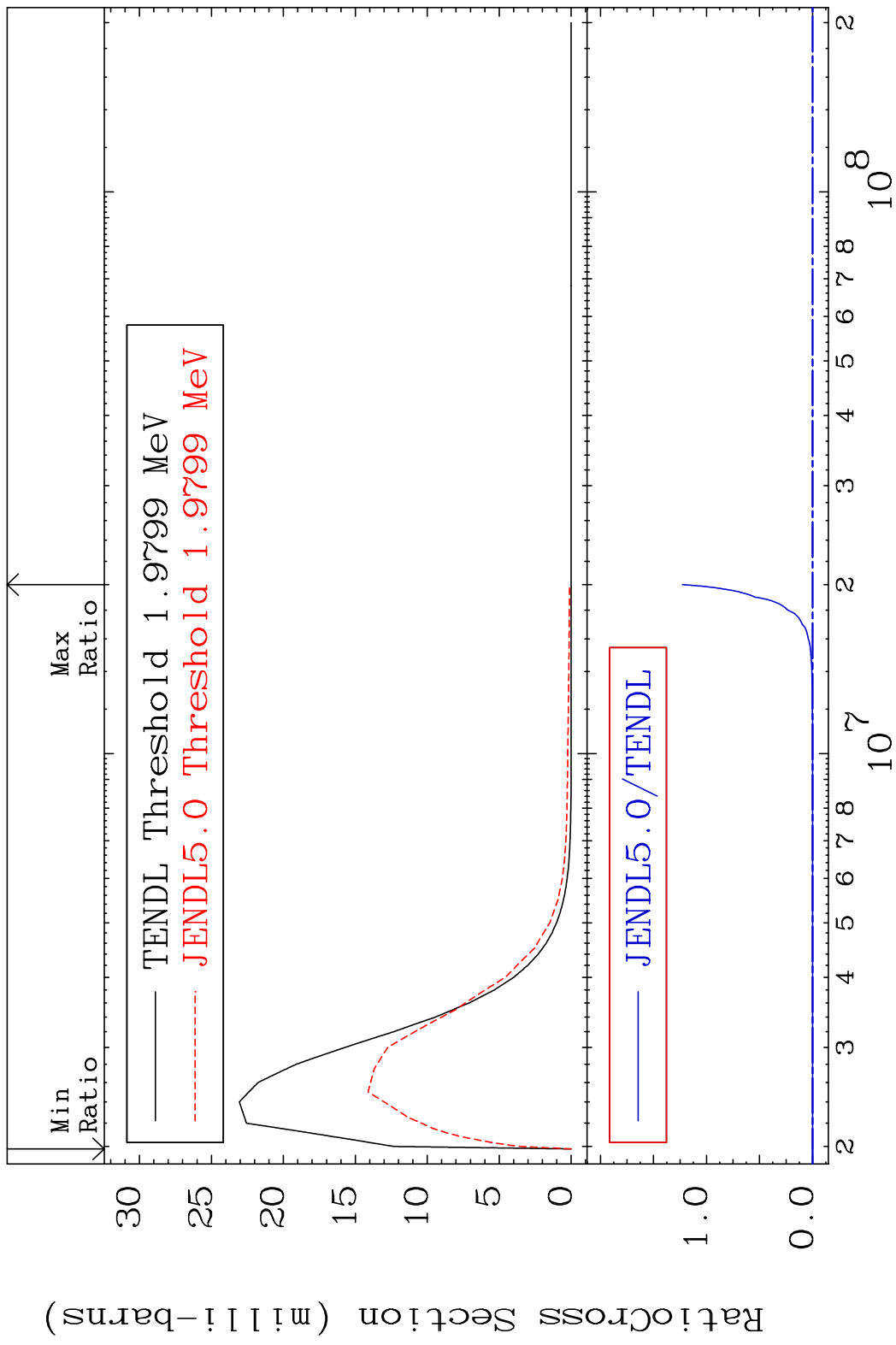
MAT 6028 MT= 68 (n, n') Level 60-Nd-143
 Cross Section -100.0 To 9999. %



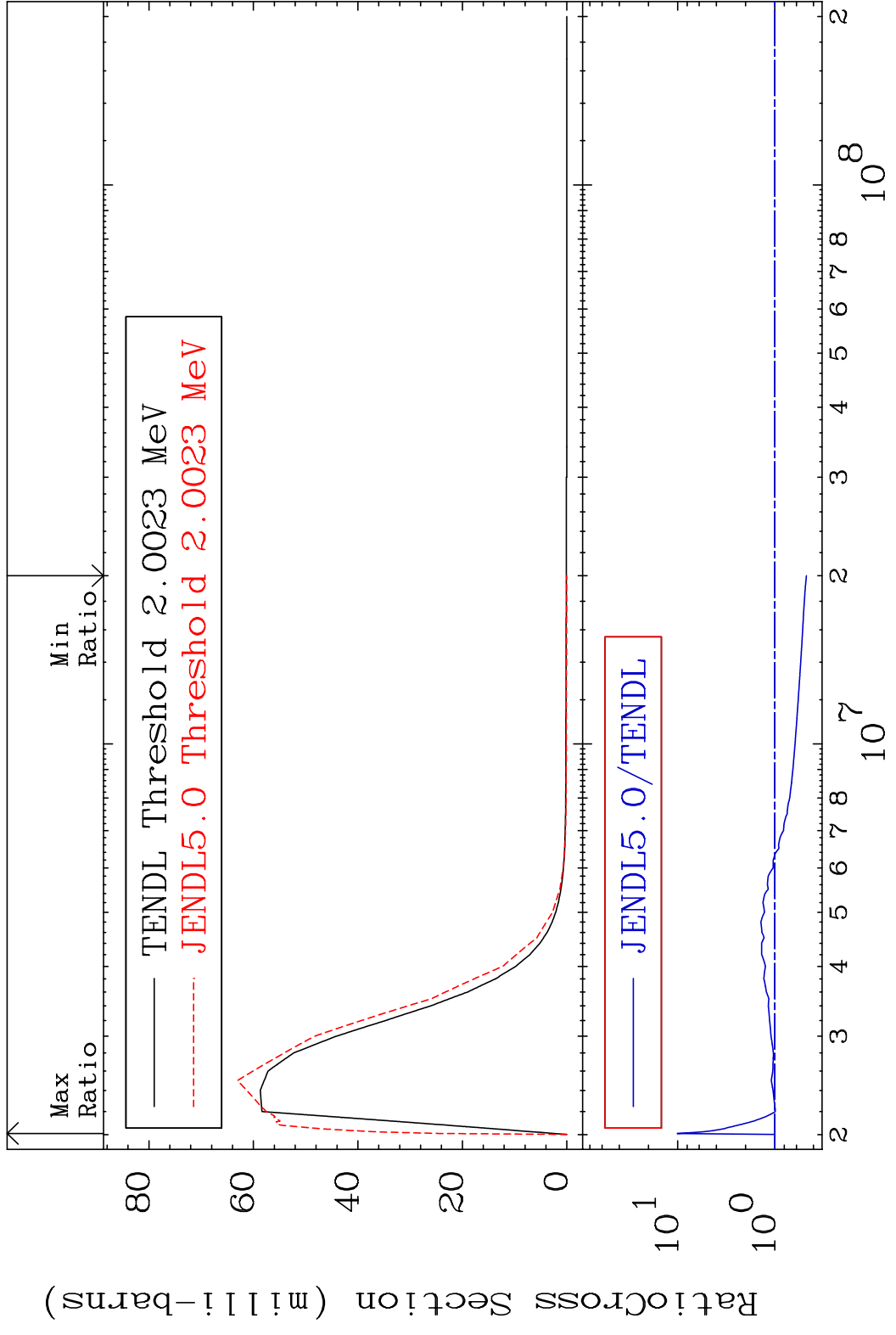
MAT 6028 MT= 69 (n, n') Level 60-Nd-143
 Cross Section -100.0 To 9999. %



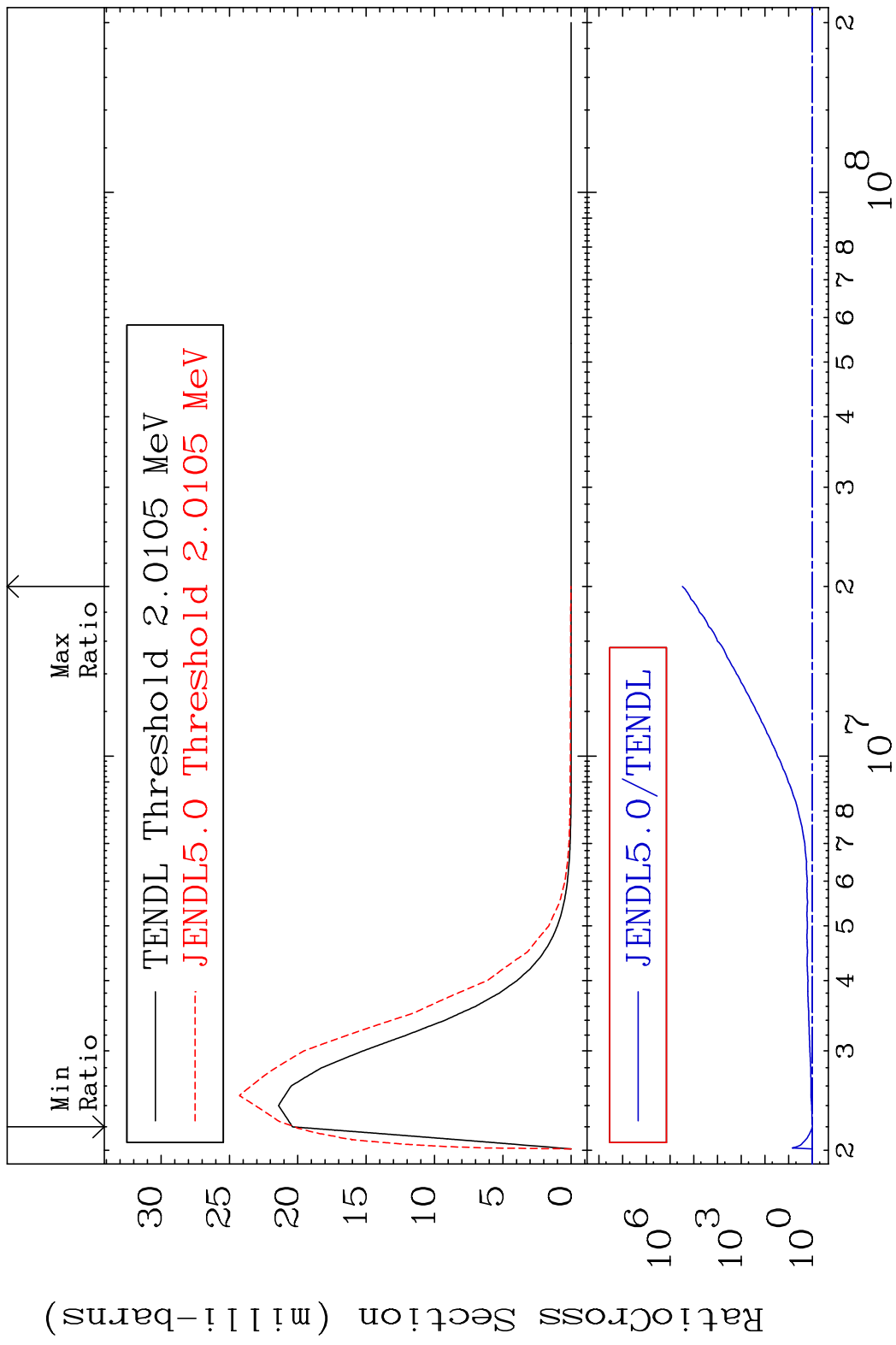
MAT 6028 MT= 70 (n, n') Level 60-Nd-143
 Cross Section -100.0 To 9999. %



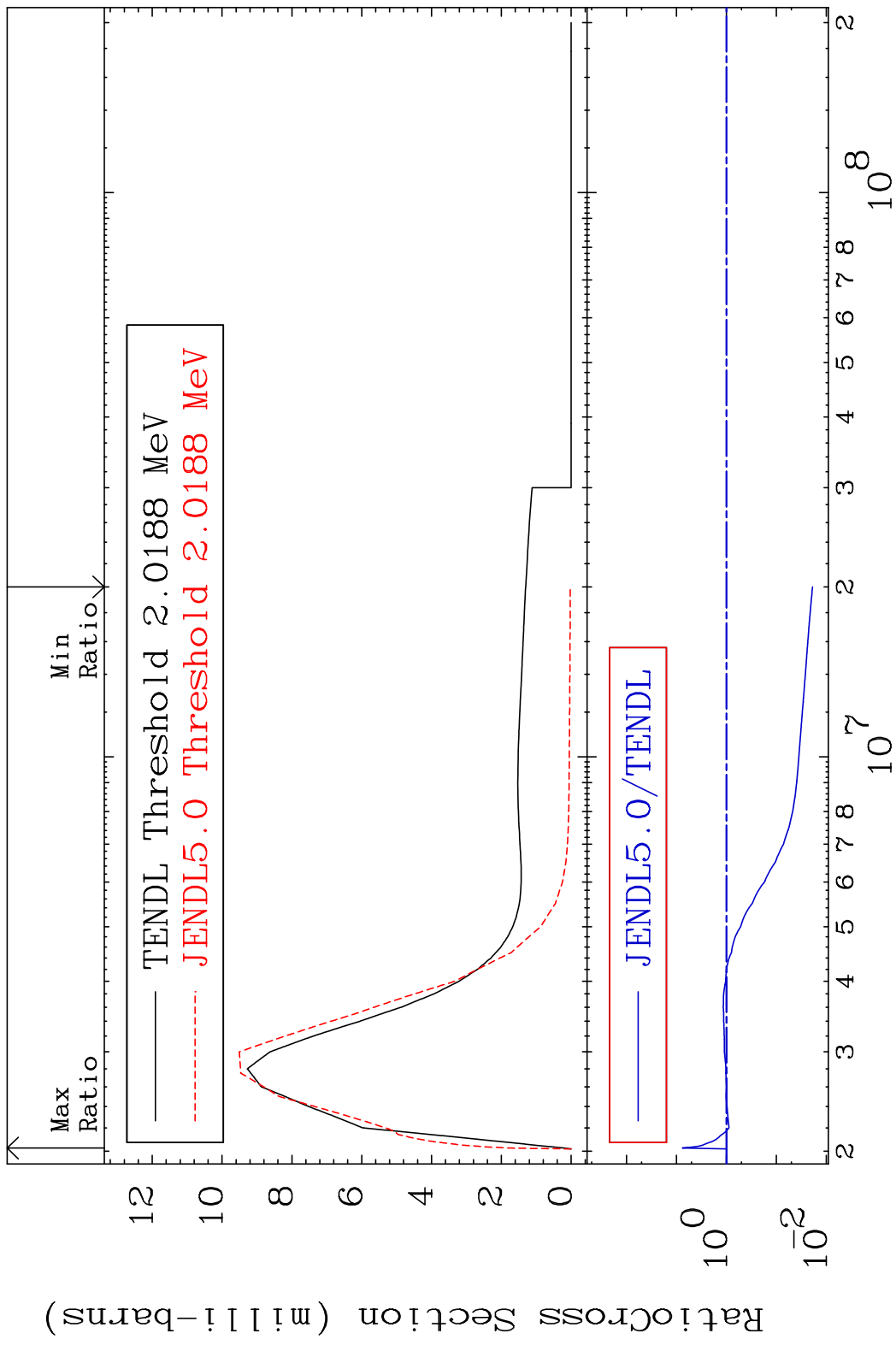
MAT 6028 MT= 71 (n, n') Level 60-Nd-143
 Cross Section -52.64 To 912.3 %



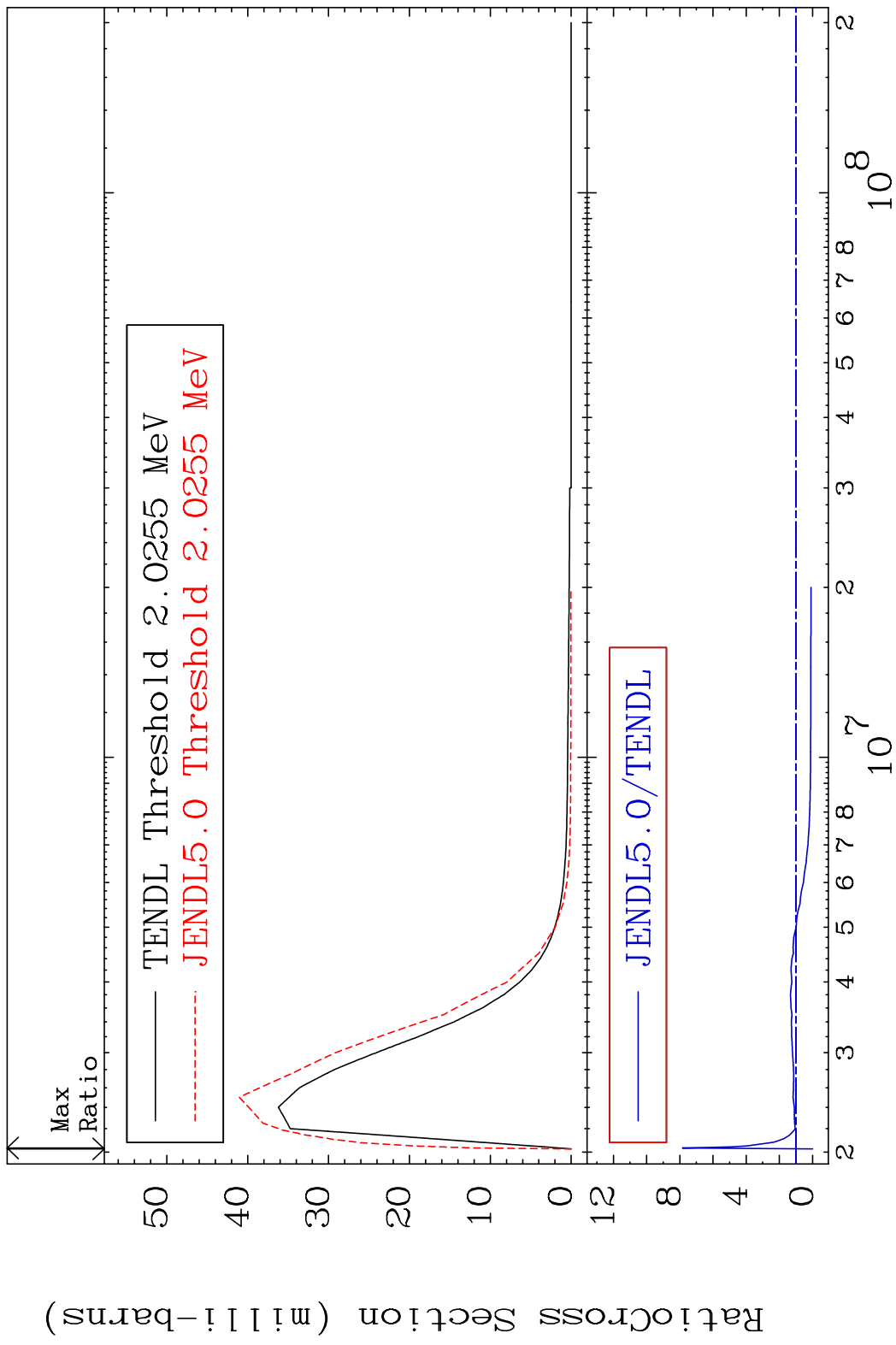
MAT 6028 MT= 72 (n, n') Level 60-Nd-143
 Cross Section -0.943 To 9999. %



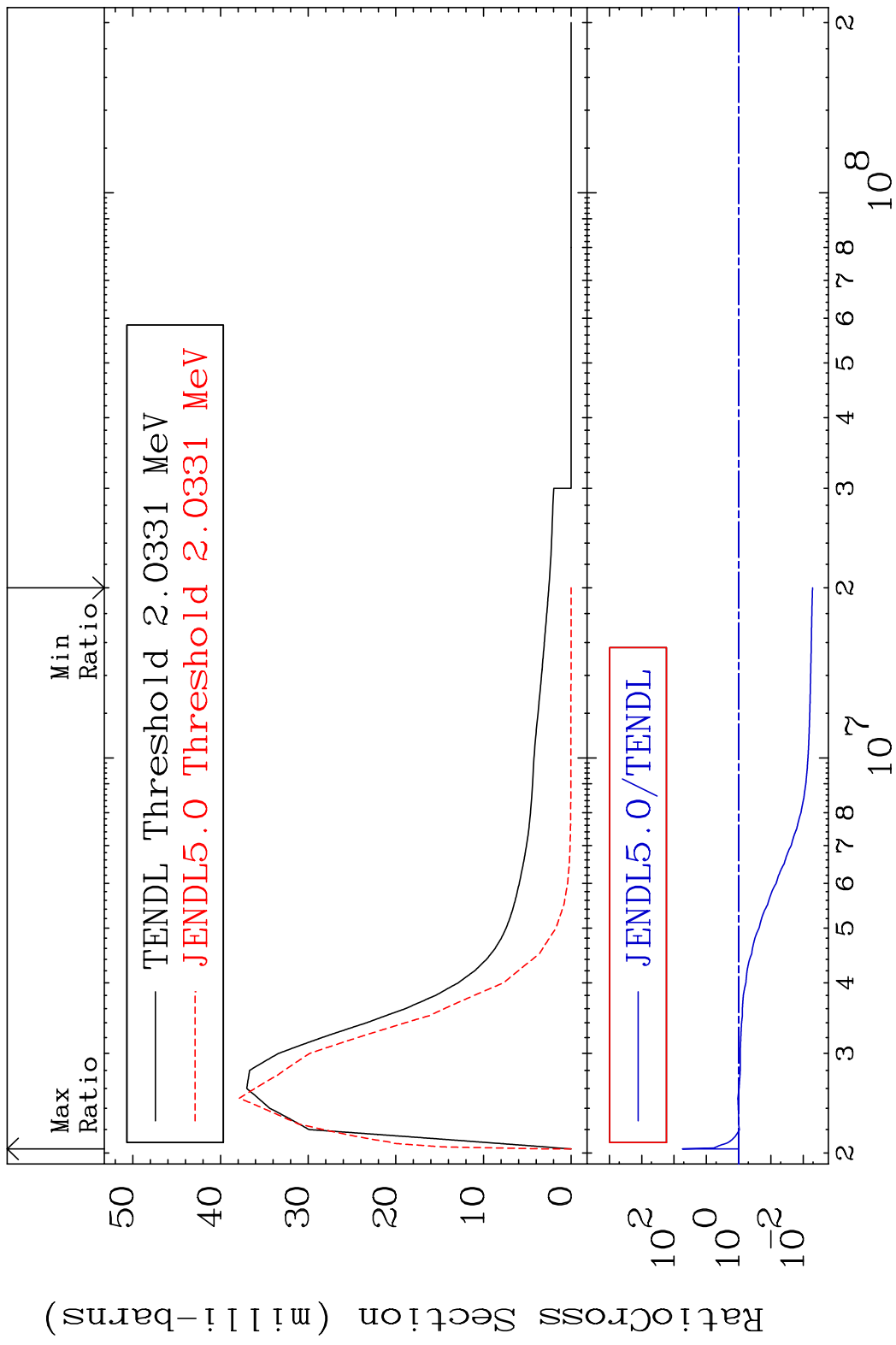
MAT 6028 MT= 73 (n, n') Level 60-Nd-143
 Cross Section -98.11 To 665.2 %



MAT 6028 MT= 74 (n, n') Level 60-Nd-143
 Cross Section -100.0 To 684.6 %

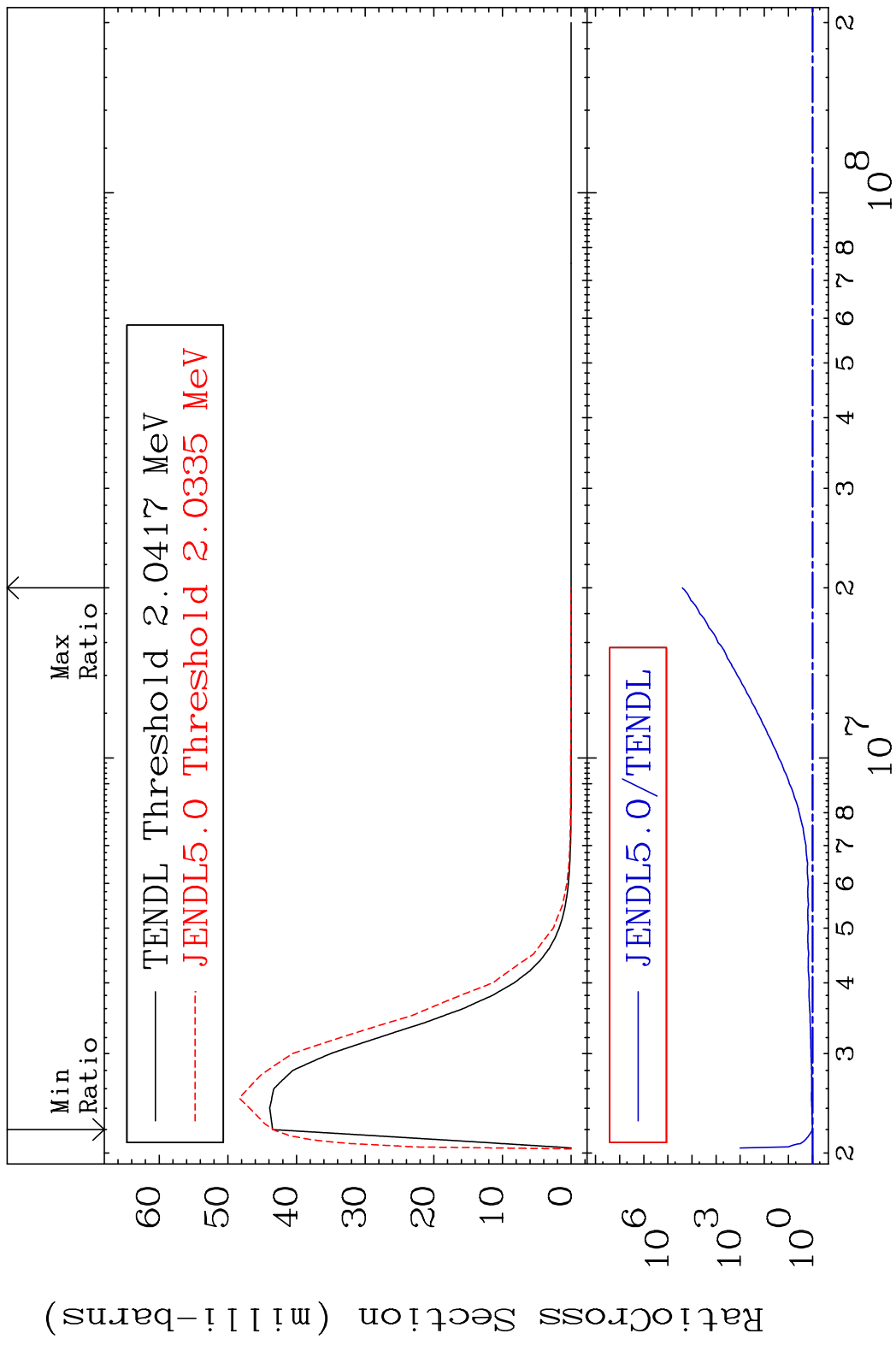


MAT 6028 MT= 75 (n, n') Level 60-Nd-143
 Cross Section -99.48 To 5428. %

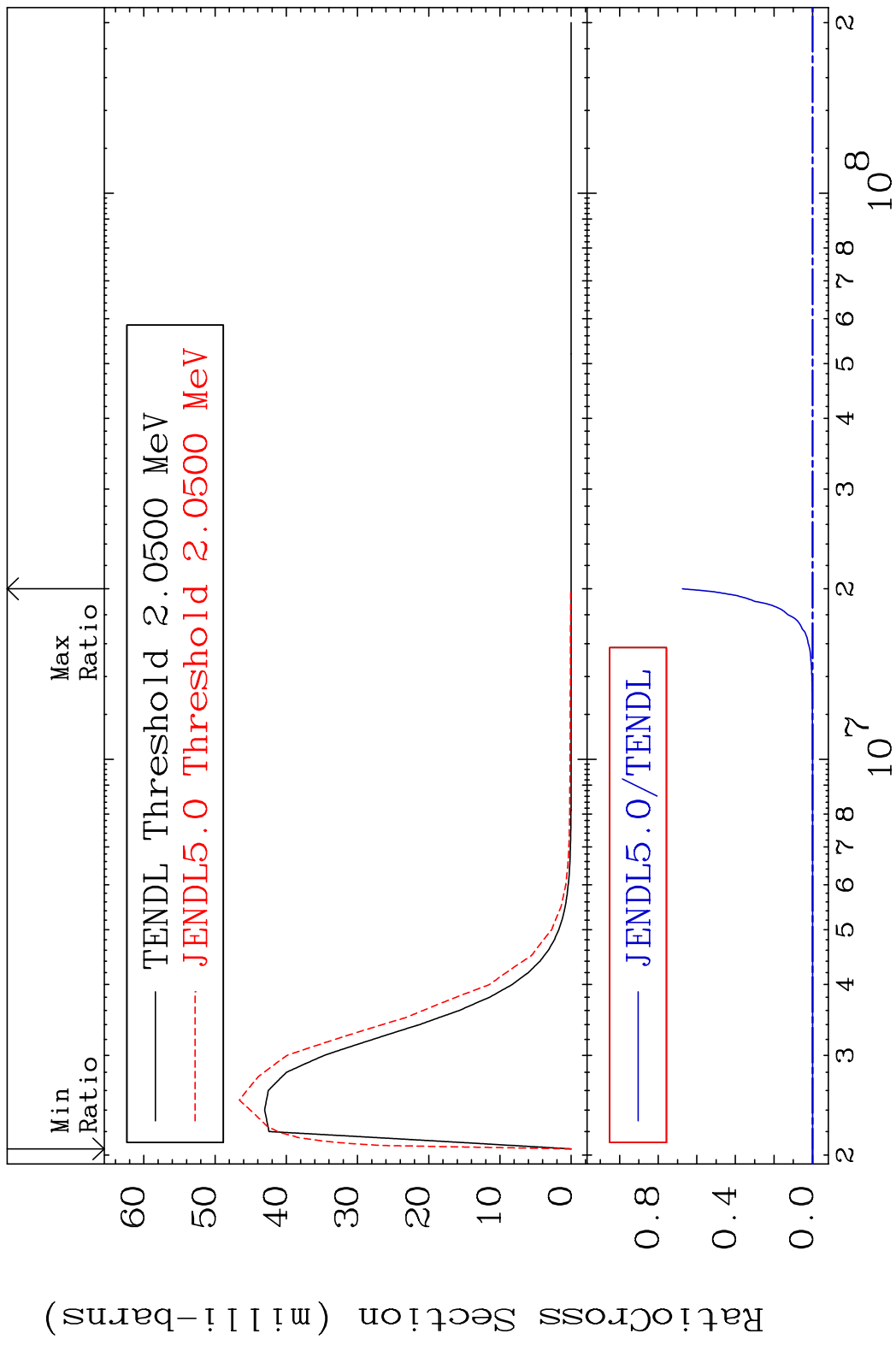


35 Incident Energy (eV) 60-Nd-143

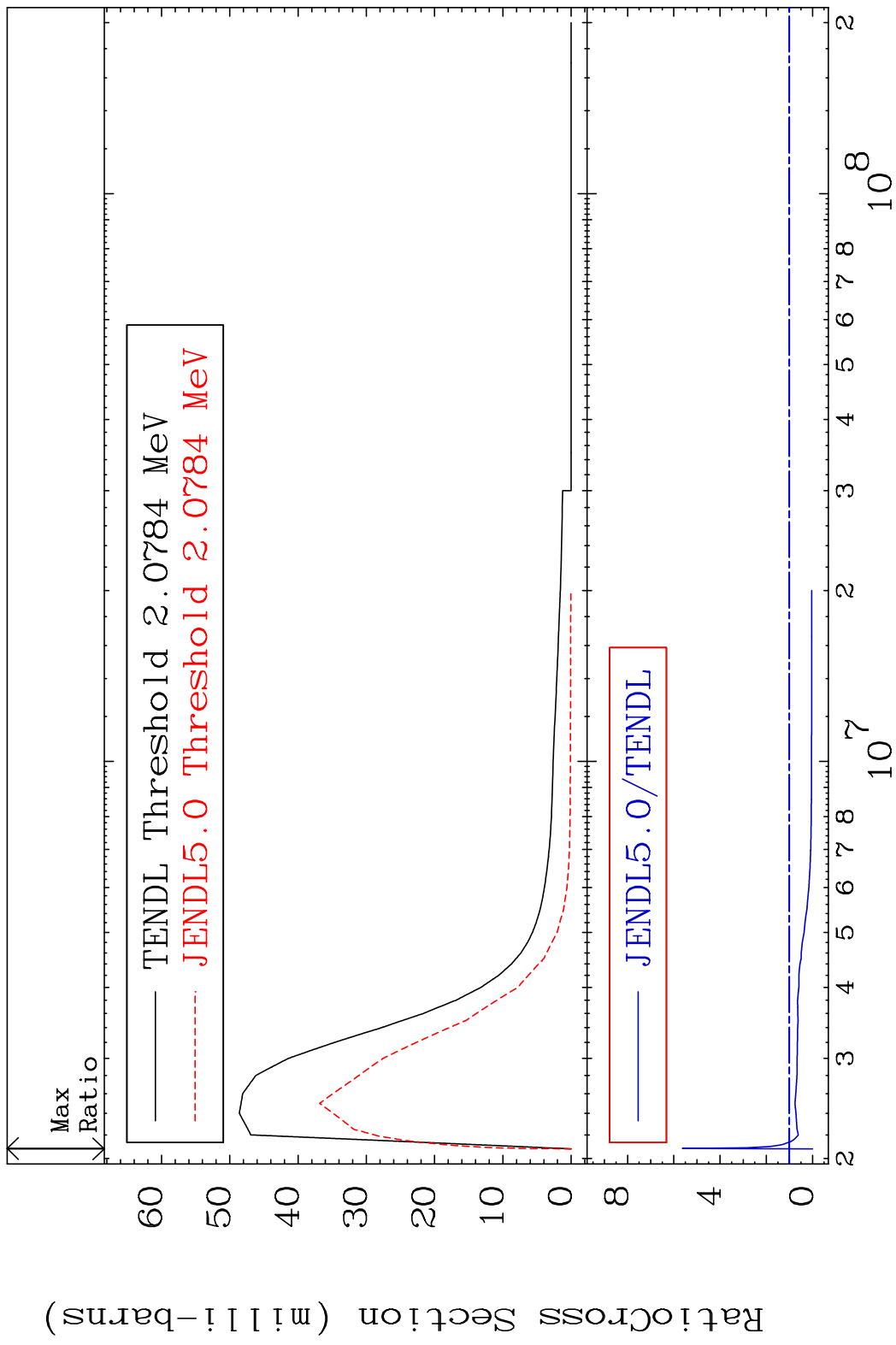
MAT 6028 MT= 76 (n, n') Level 60-Nd-143
 Cross Section -0.257 To 9999. %



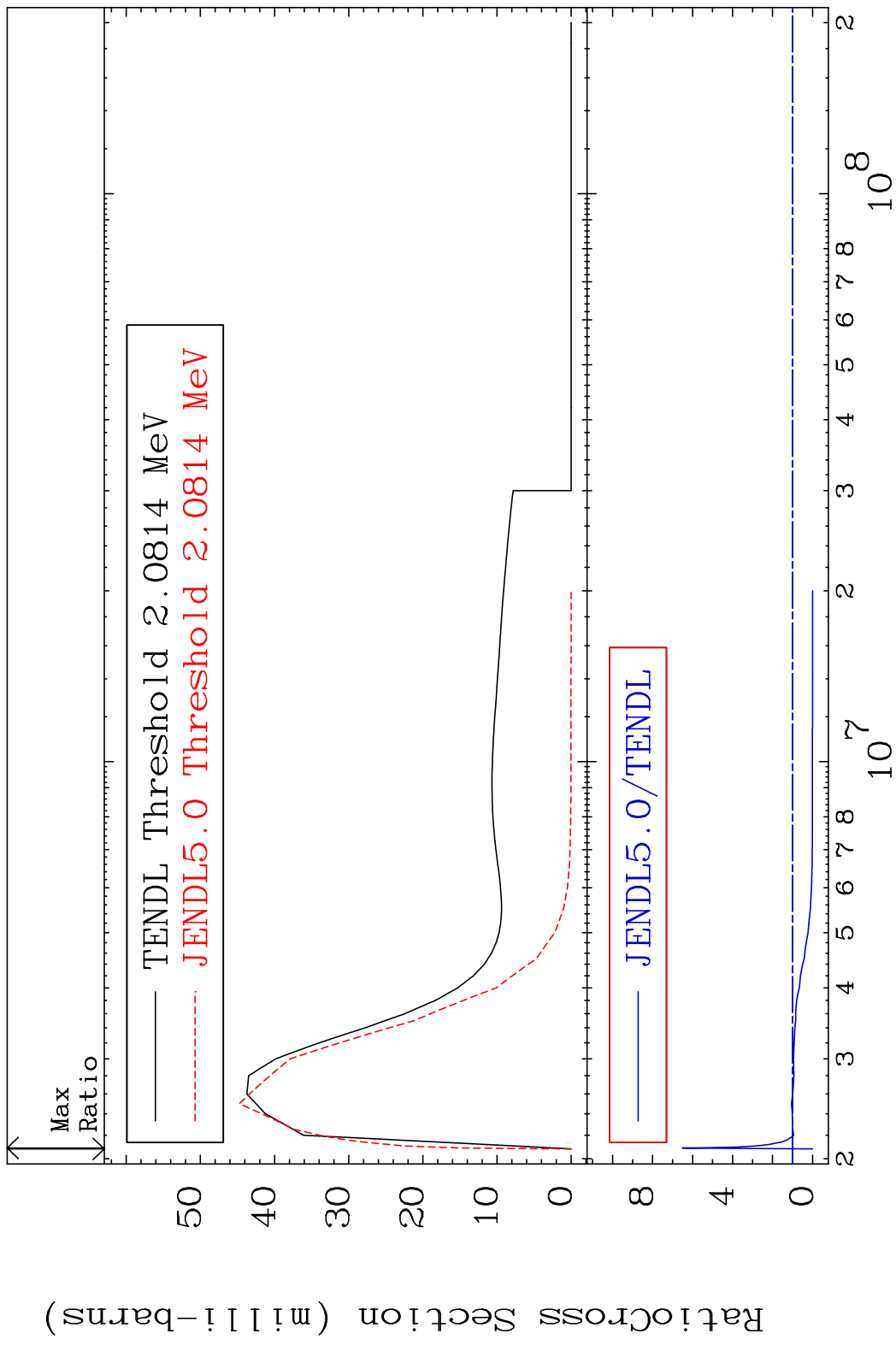
MAT 6028 MT= 77 (n, n') Level 60-Nd-143
 Cross Section -100.0 To 9999. %



MAT 6028 MT= 78 (n, n') Level 60-Nd-143
 Cross Section -100.0 To 463.1 %



MAT 6028 MT= 79 (n, n') Level 60-Nd-143
 Cross Section -100.0 To 551.0 %

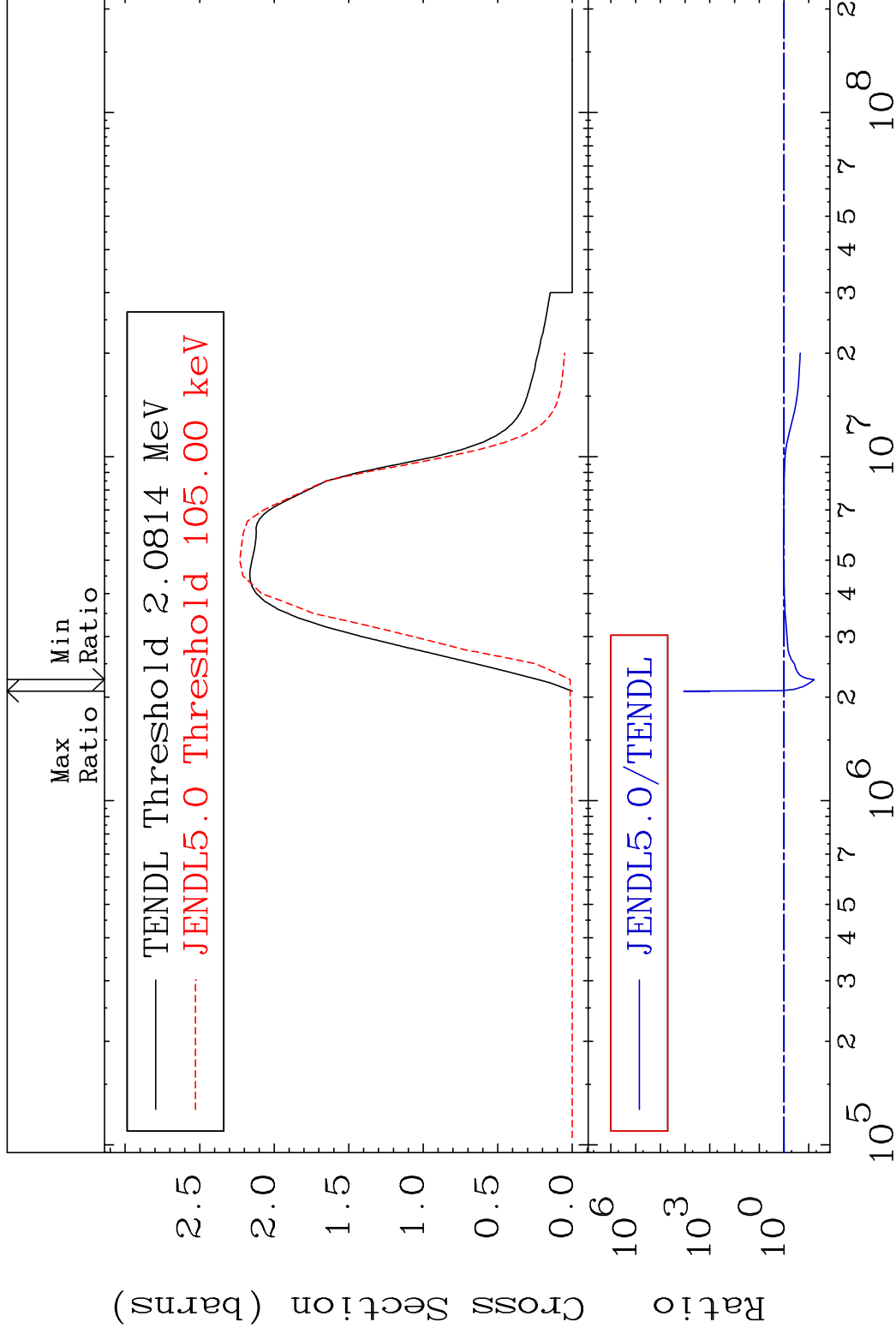


MAT 6028

(n, n') Continuum

60-Nd-143

Cross Section -93.92 To 9999. %



40

Incident Energy (eV)

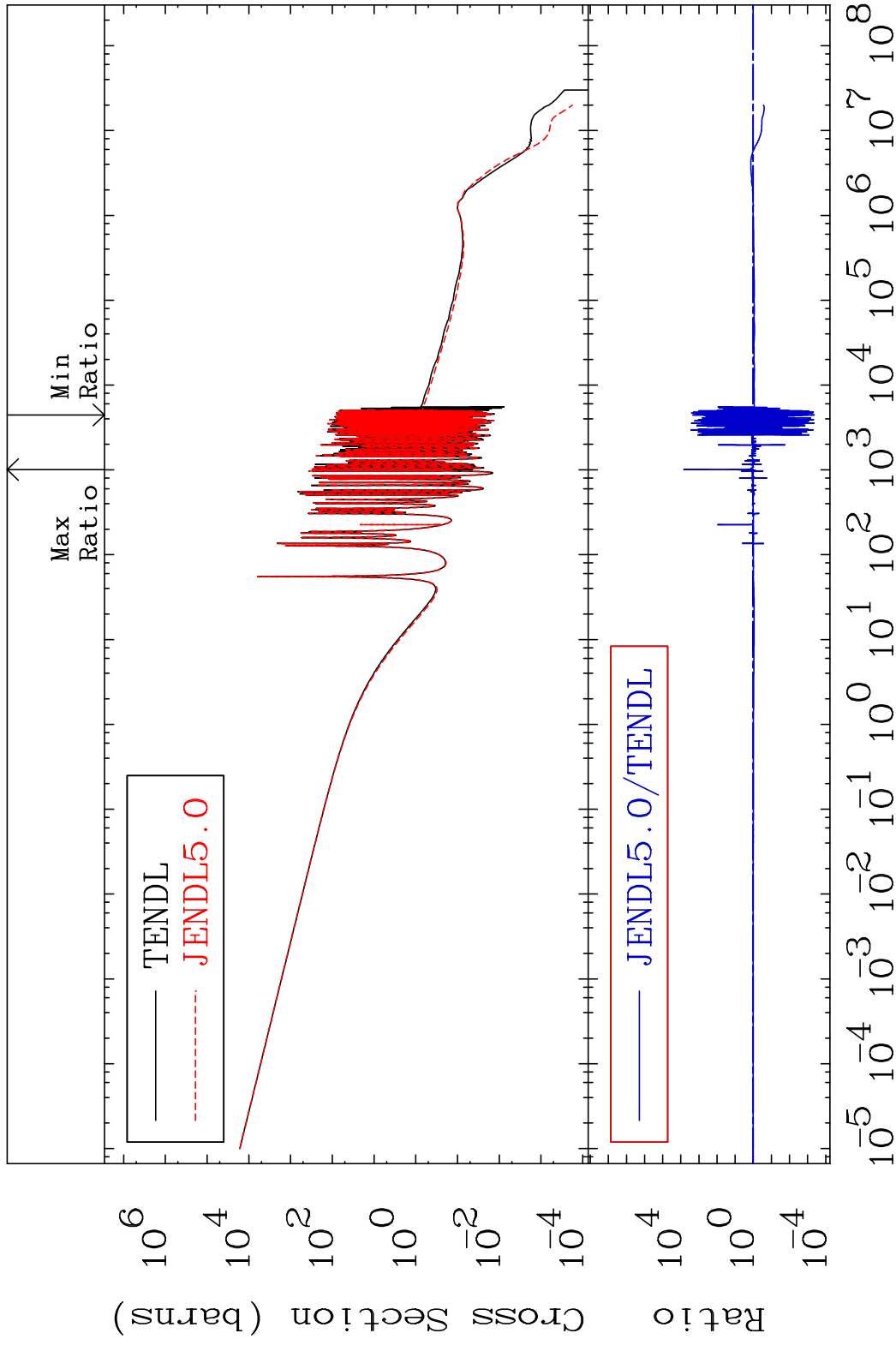
60-Nd-143

MAT 6028

(n, γ)

60-Nd-143

Cross Section -99.96 To 9999. %



41

Incident Energy (eV)

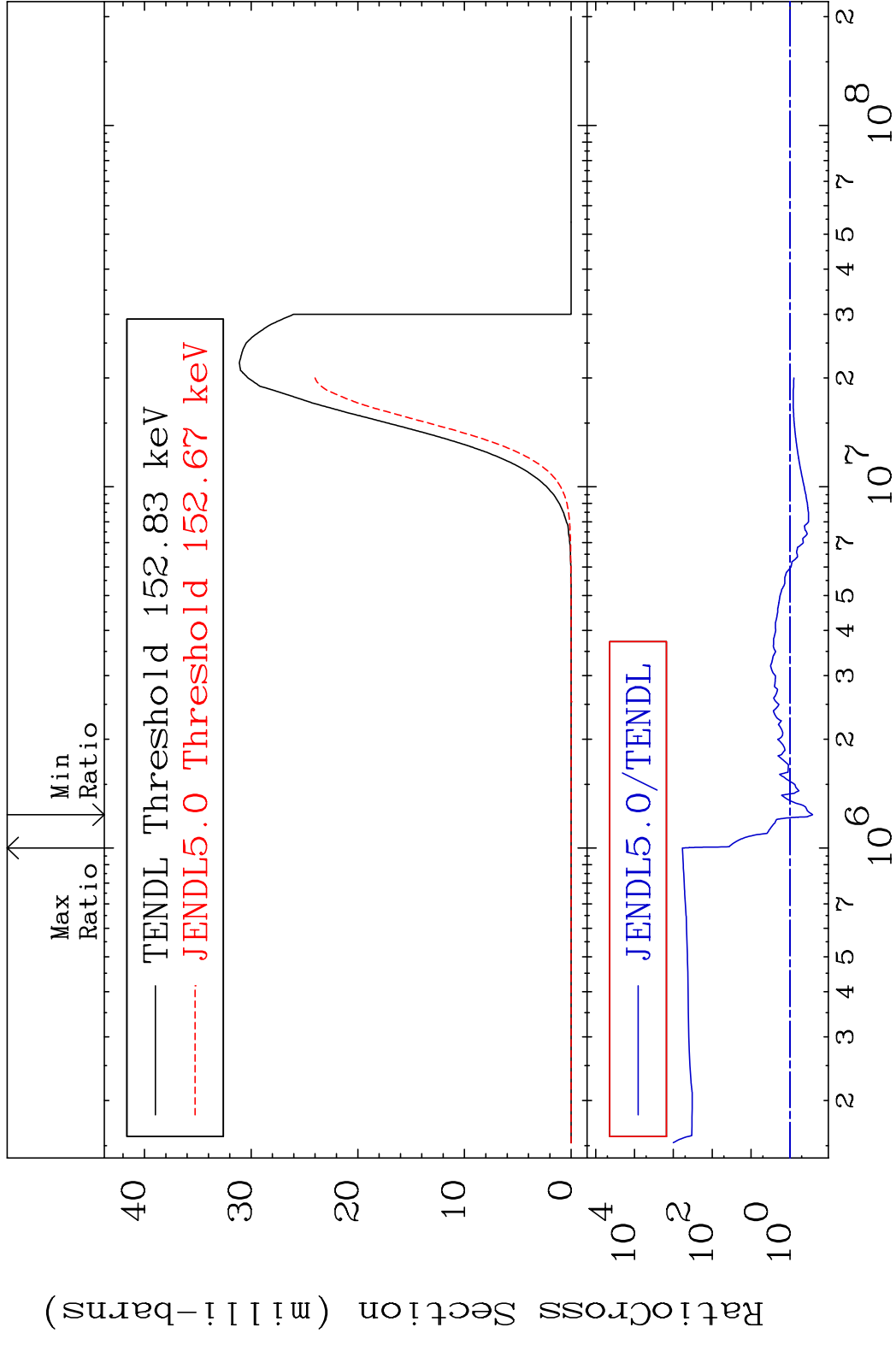
60-Nd-143

MAT 6028

(n,p)

60-Nd-143

Cross Section -73.78 To 9999. %

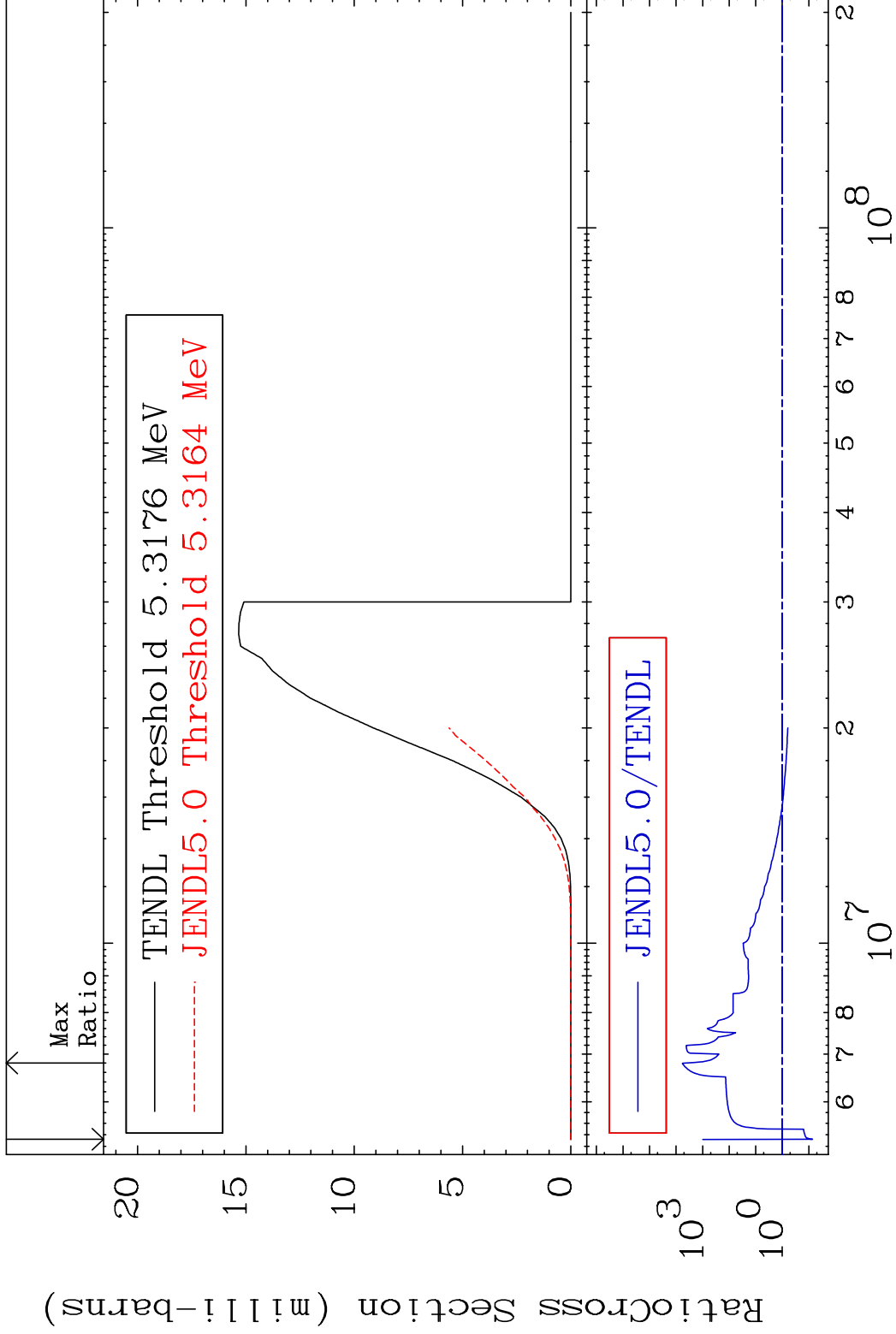


MAT 6028

(n,d)

60-Nd-143

Cross Section -92.72 To 9999. %



43

Incident Energy (eV)

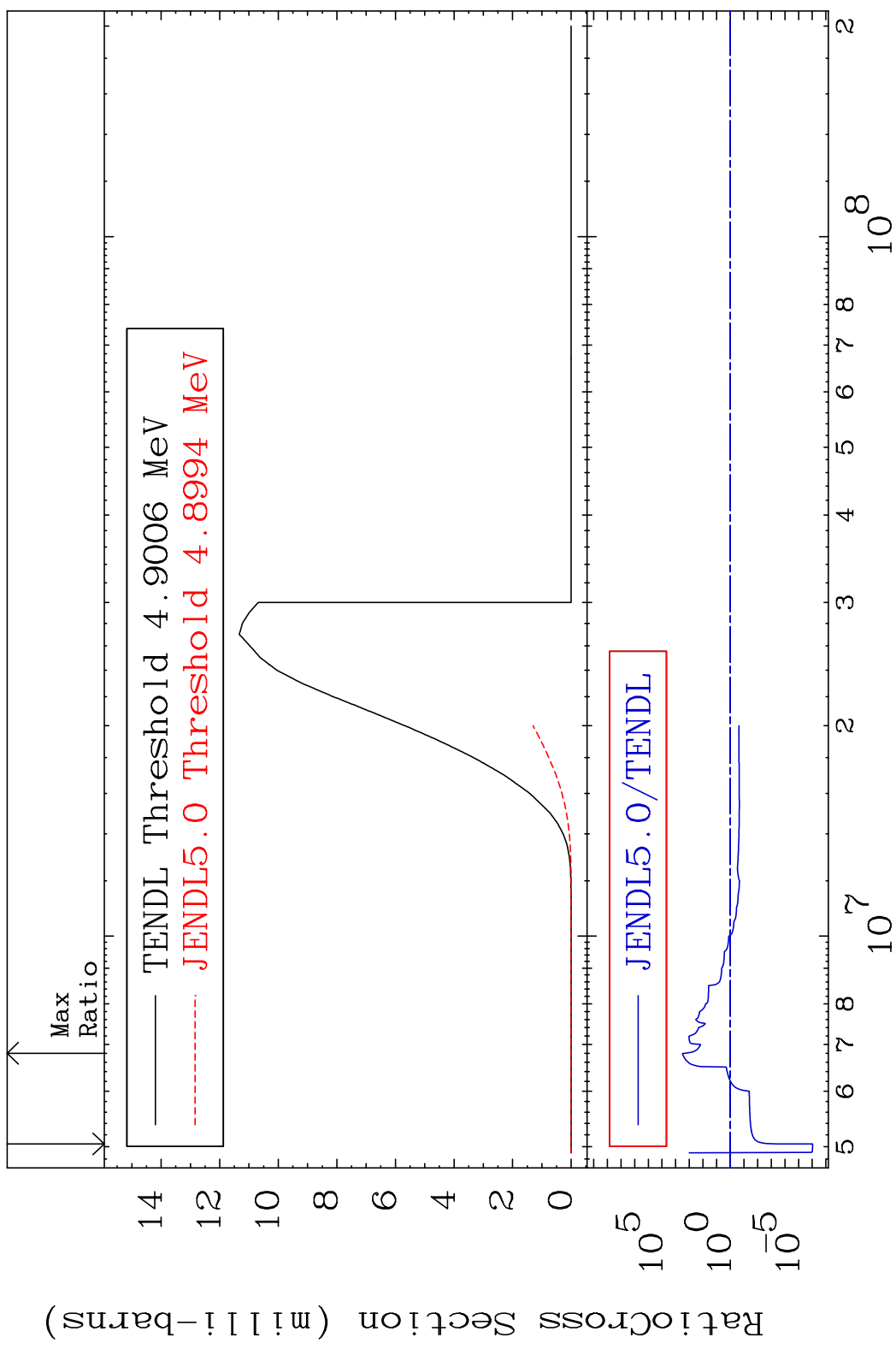
60-Nd-143

MAT 6028

(n, t)

60-Nd-143

Cross Section -100.0 To 9999. %

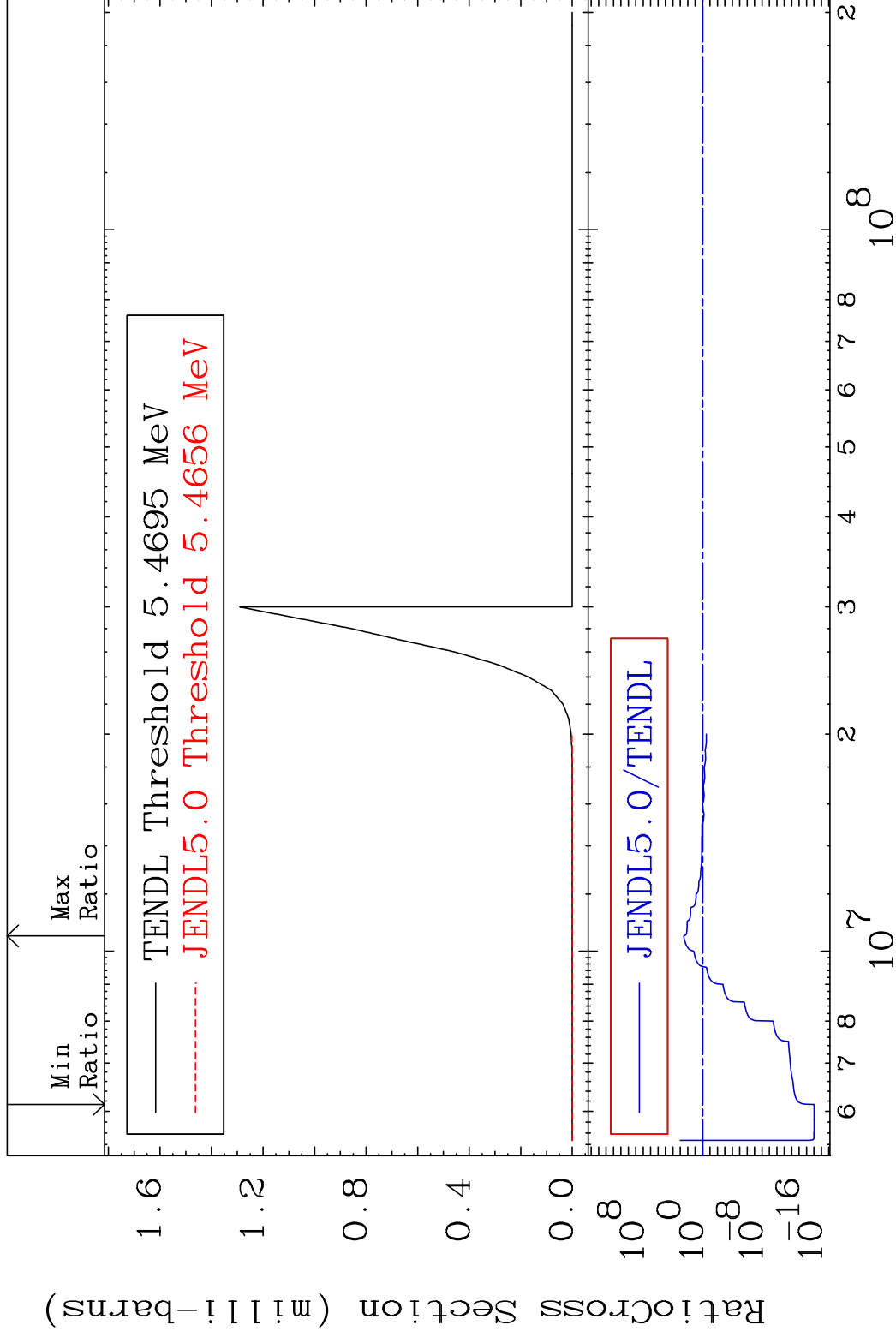


MAT 6028

(n, He-3)

60-Nd-143

Cross Section -100.0 To 9999. %



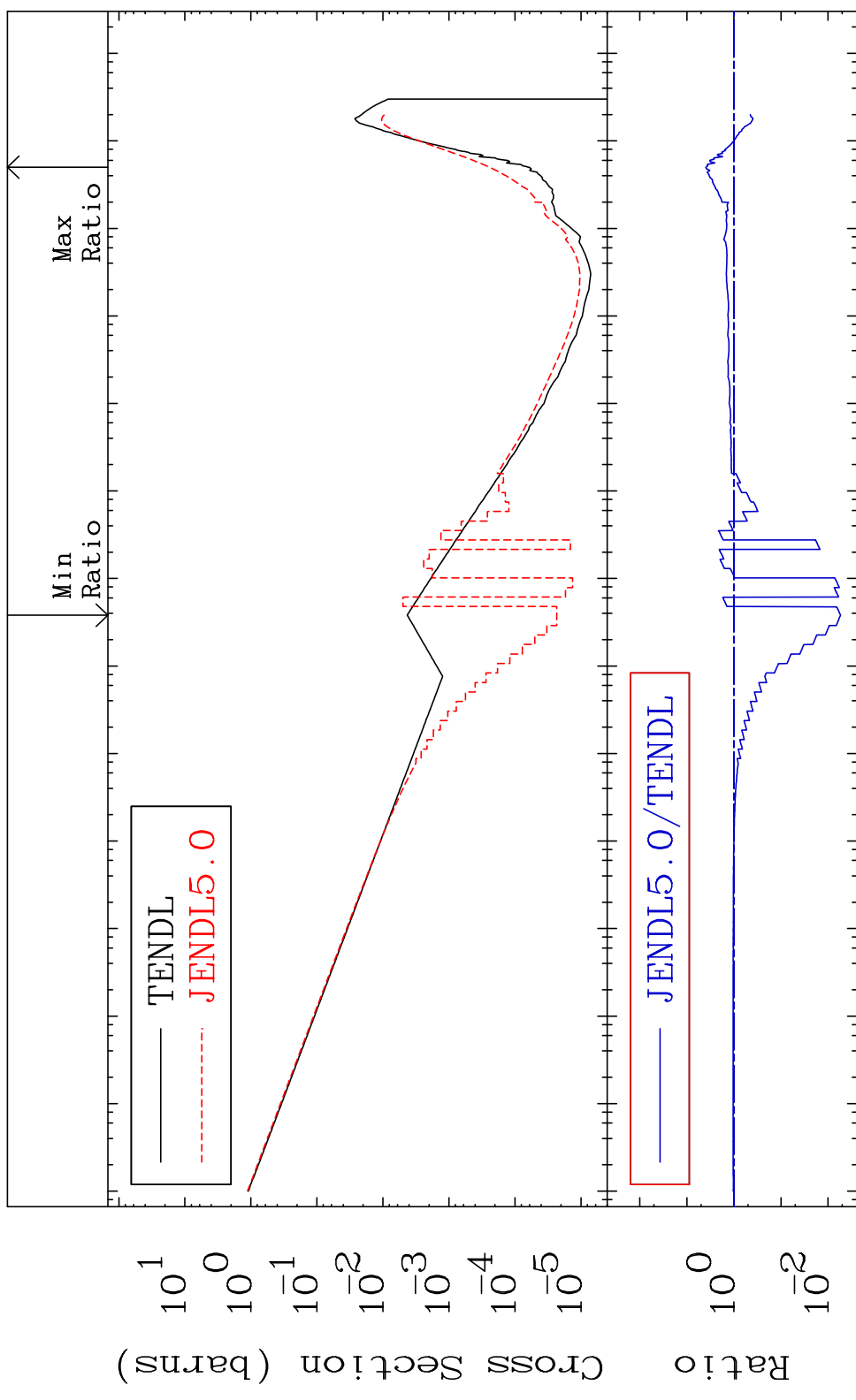
45

Incident Energy (eV)

60-Nd-143

MAT 6028

(n, α)
Cross Section -99.45 To 296.4 %
60-Nd-143

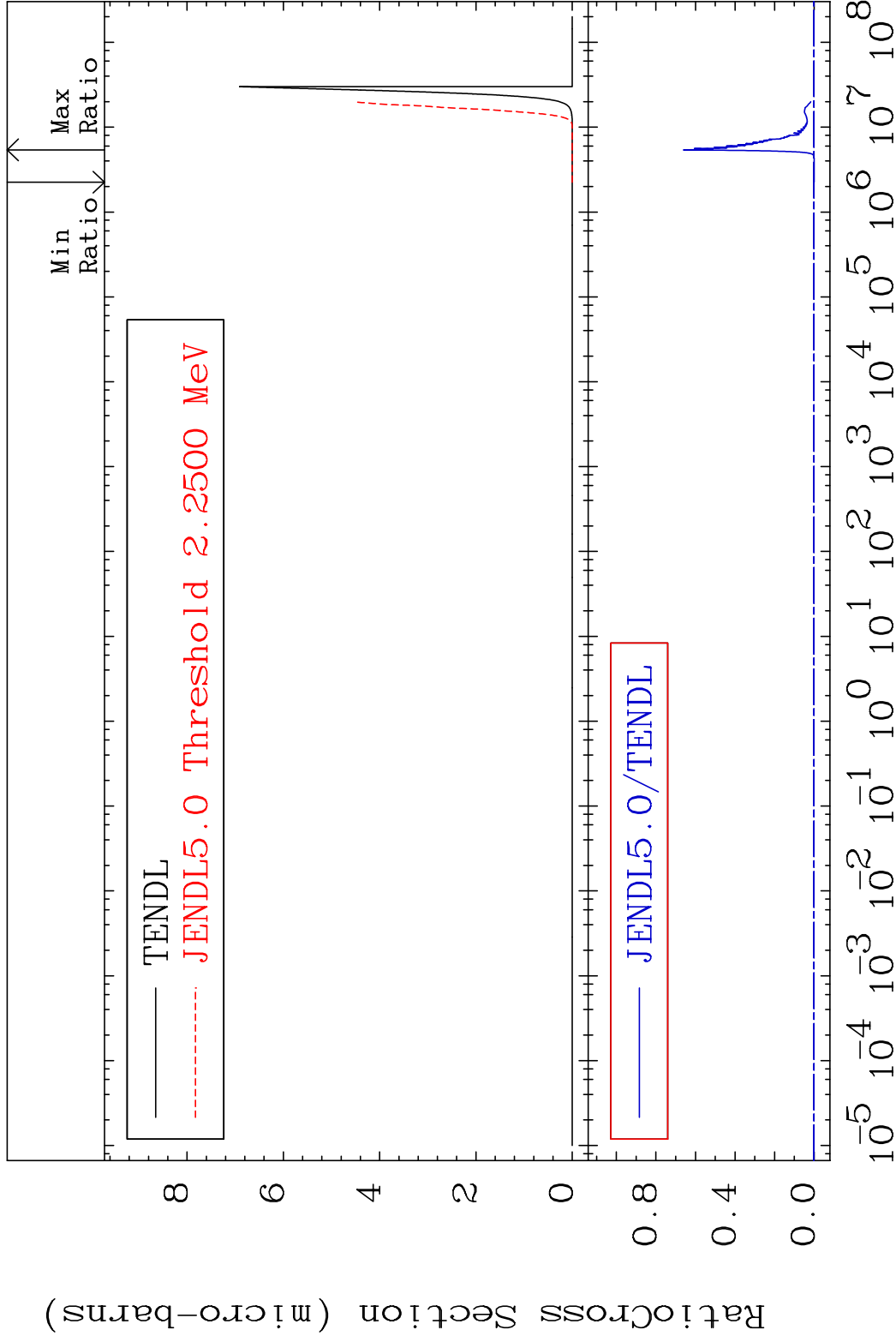


MAT 6028

(n,p) α

60-Nd-143

Cross Section -100.0 To 9999. %



47

Incident Energy (eV)

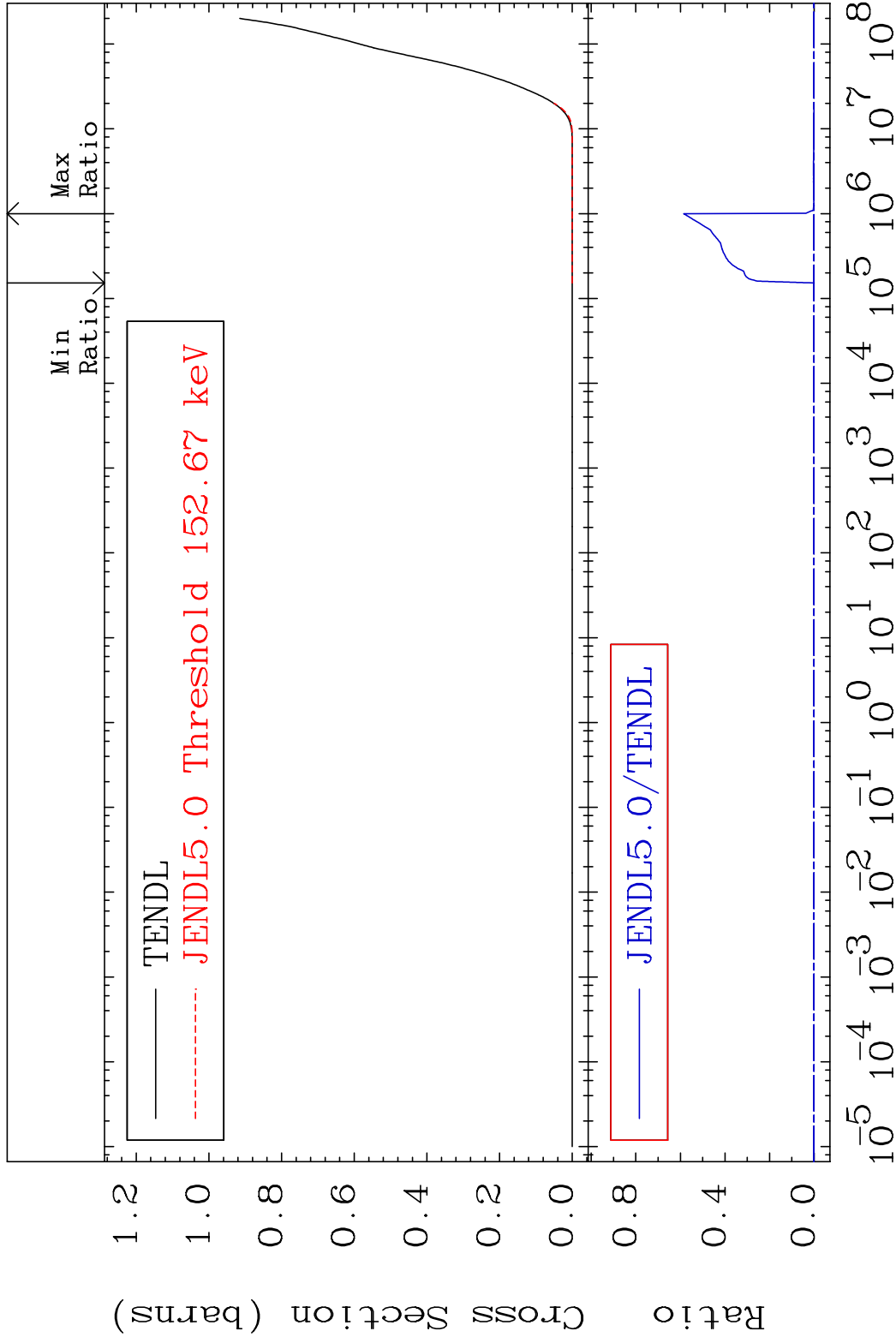
60-Nd-143

MAT 6028

Hydrogen Production

60-Nd-143

Cross Section -100.0 To 9999. %

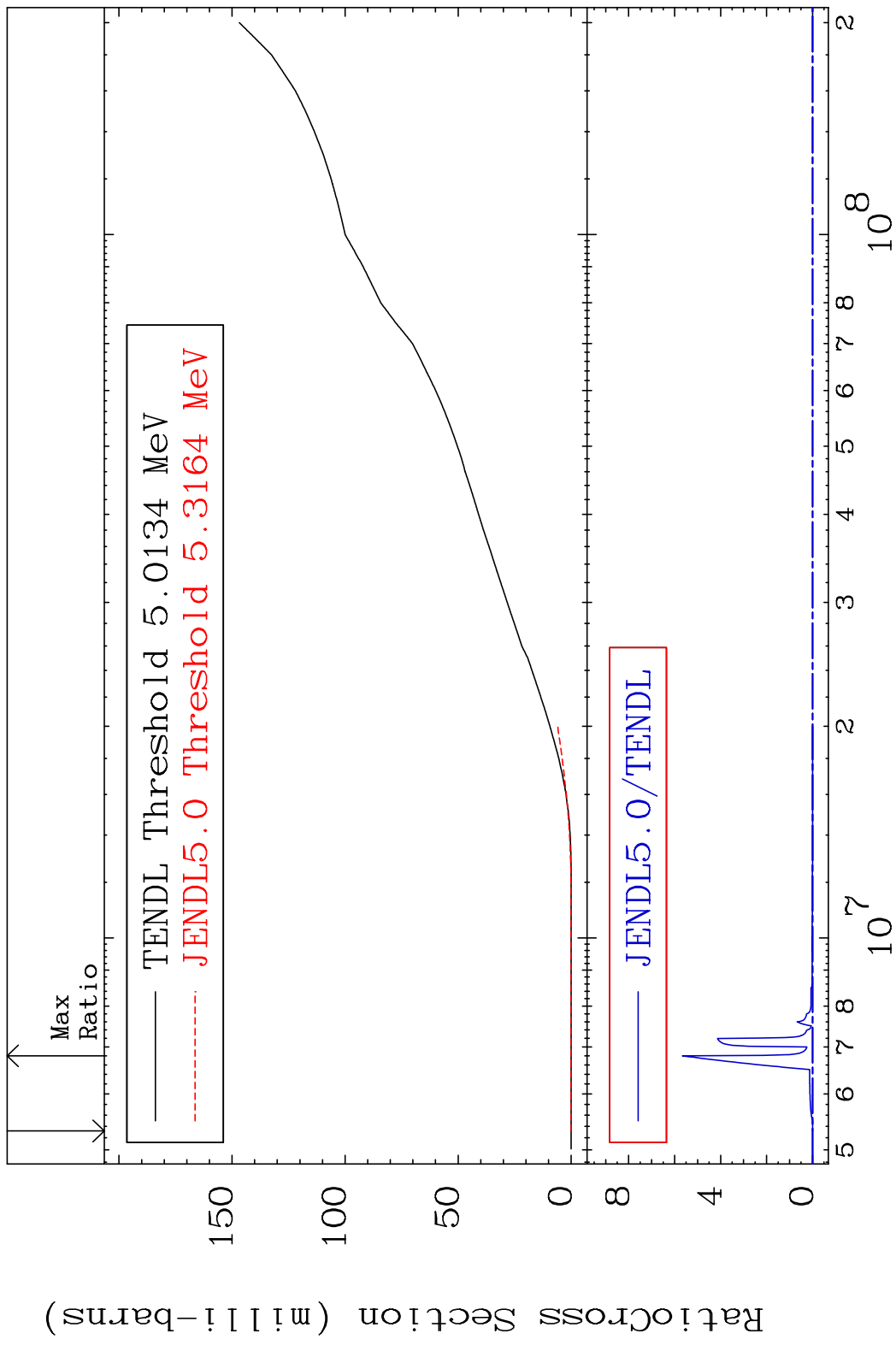


48

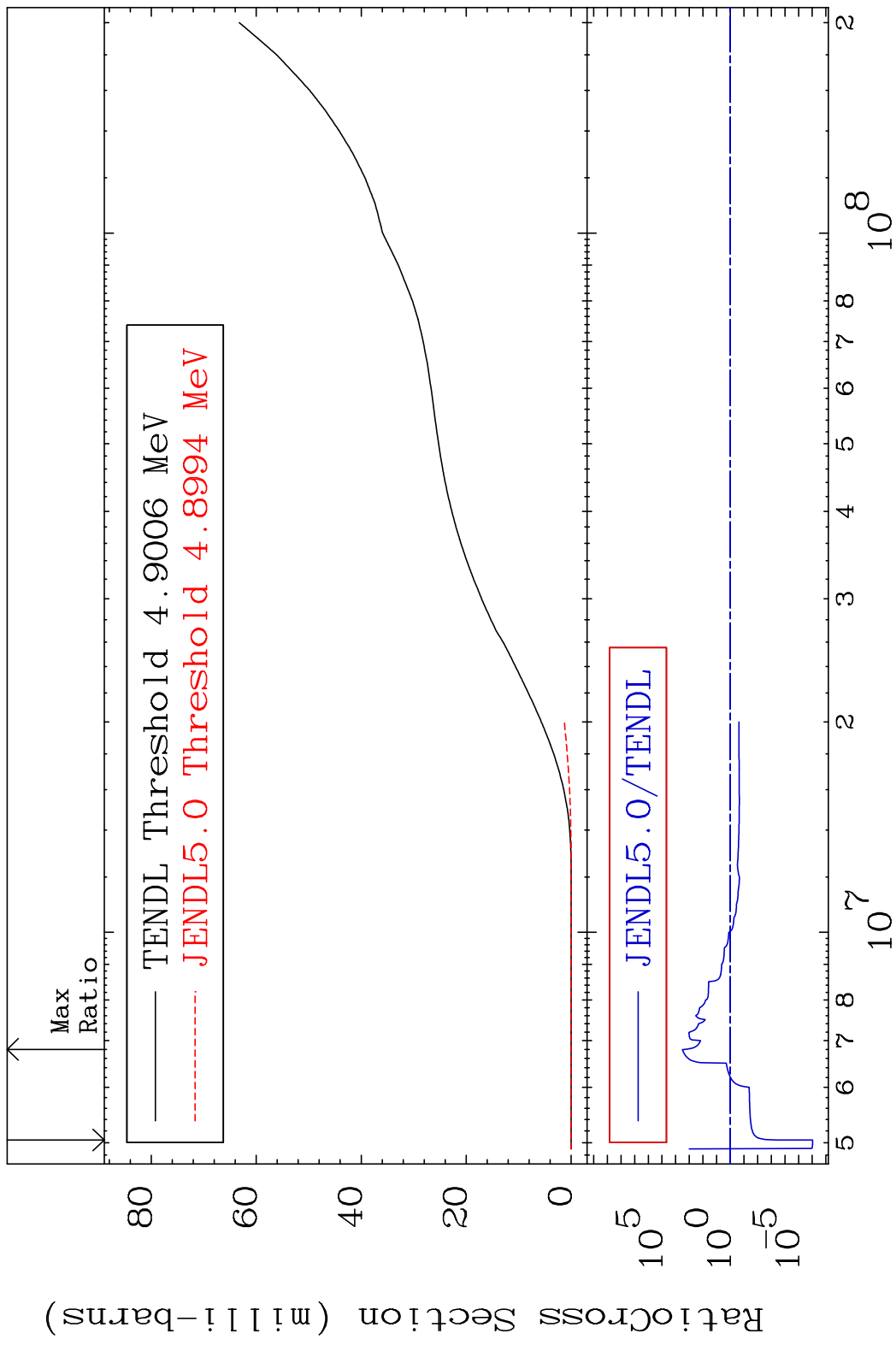
Incident Energy (eV)

60-Nd-143

MAT 6028 Deuterium Production 60-Nd-143
Cross Section -100.0 To 9999. %



MAT 6028 Tritium Production 60-Nd-143
 Cross Section -100.0 To 9999. %



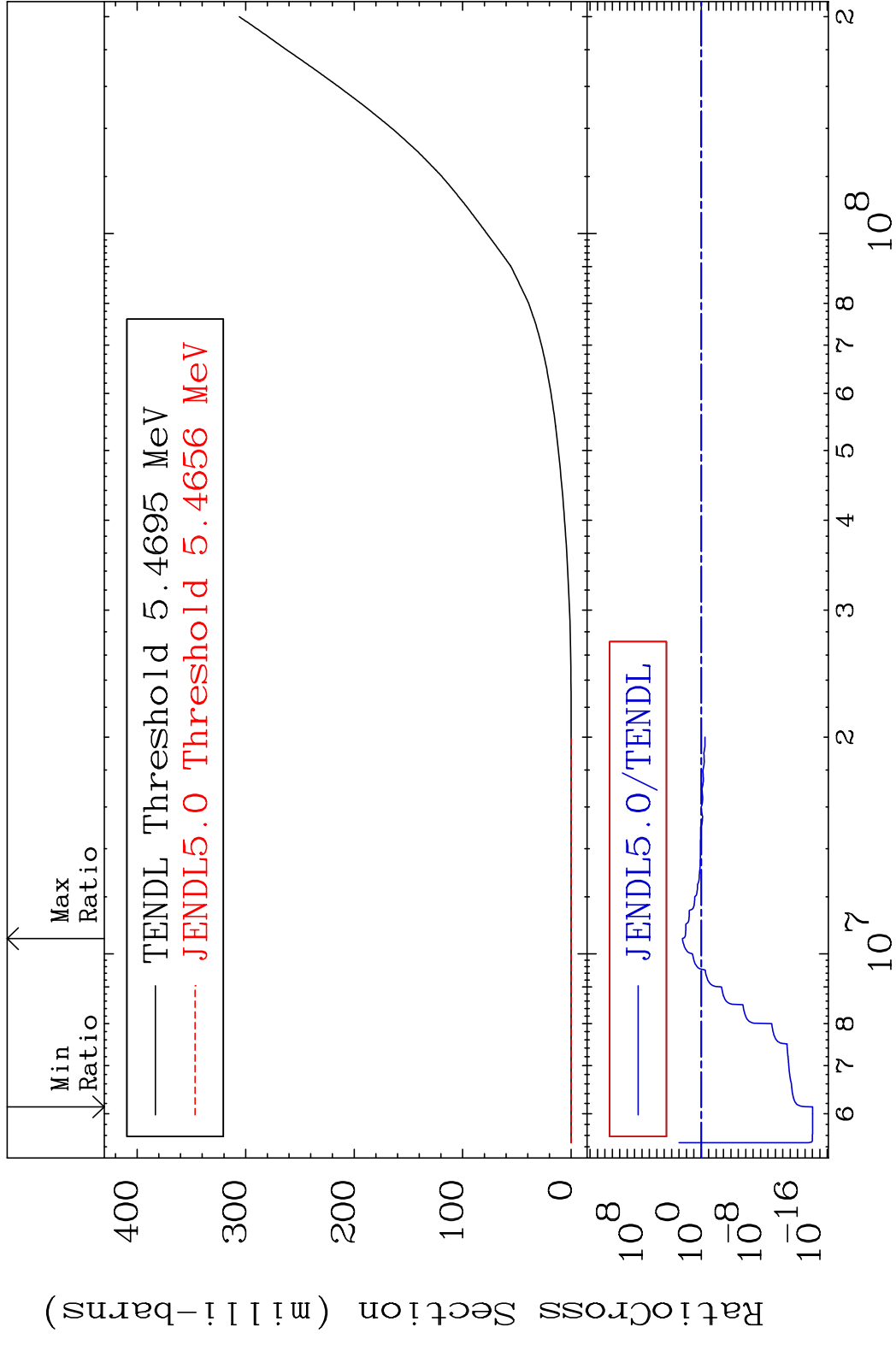
50 Incident Energy (eV) 60-Nd-143

MAT 6028

He-3 Production

60-Nd-143

Cross Section -100.0 To 9999. %

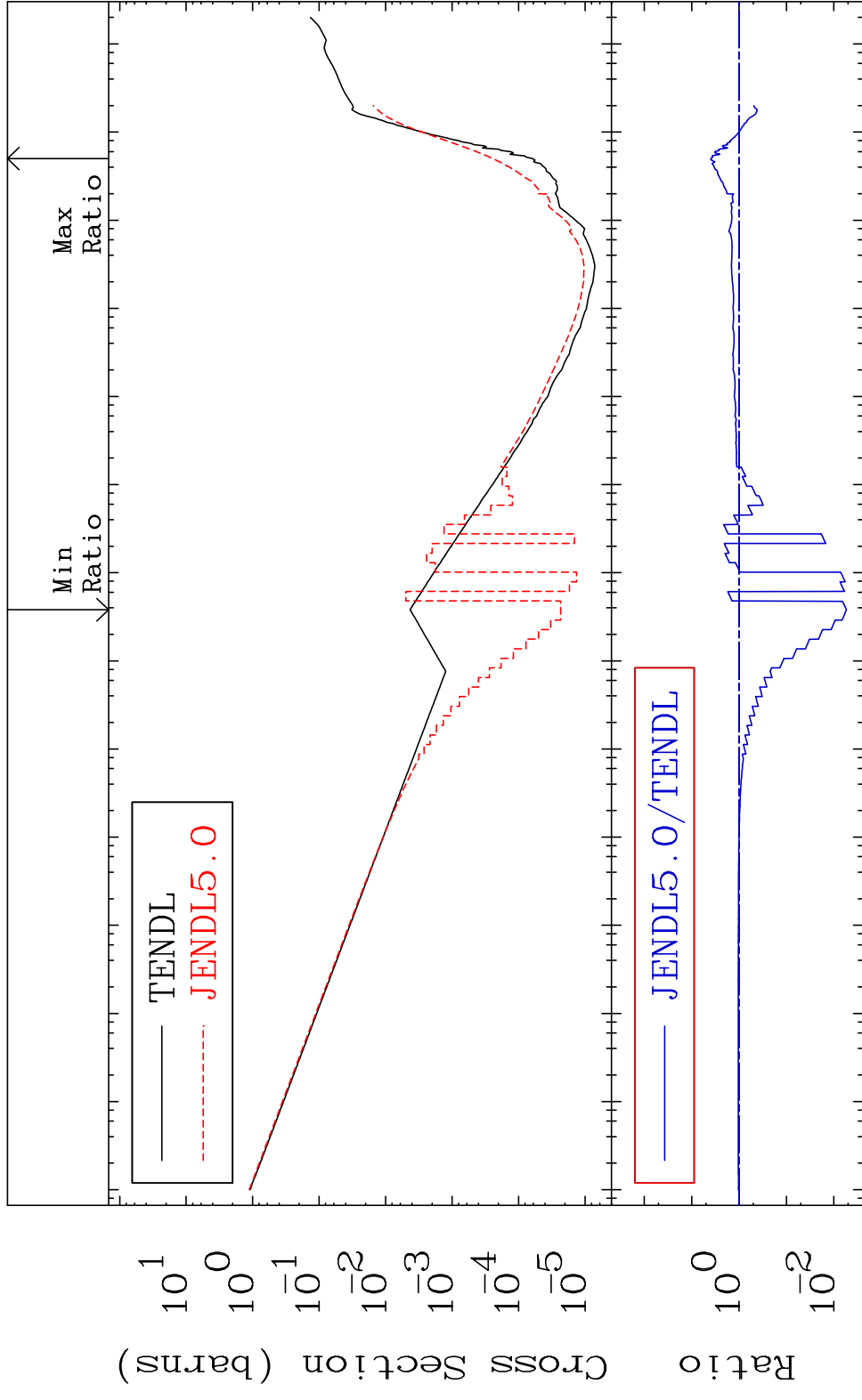


MAT 6028

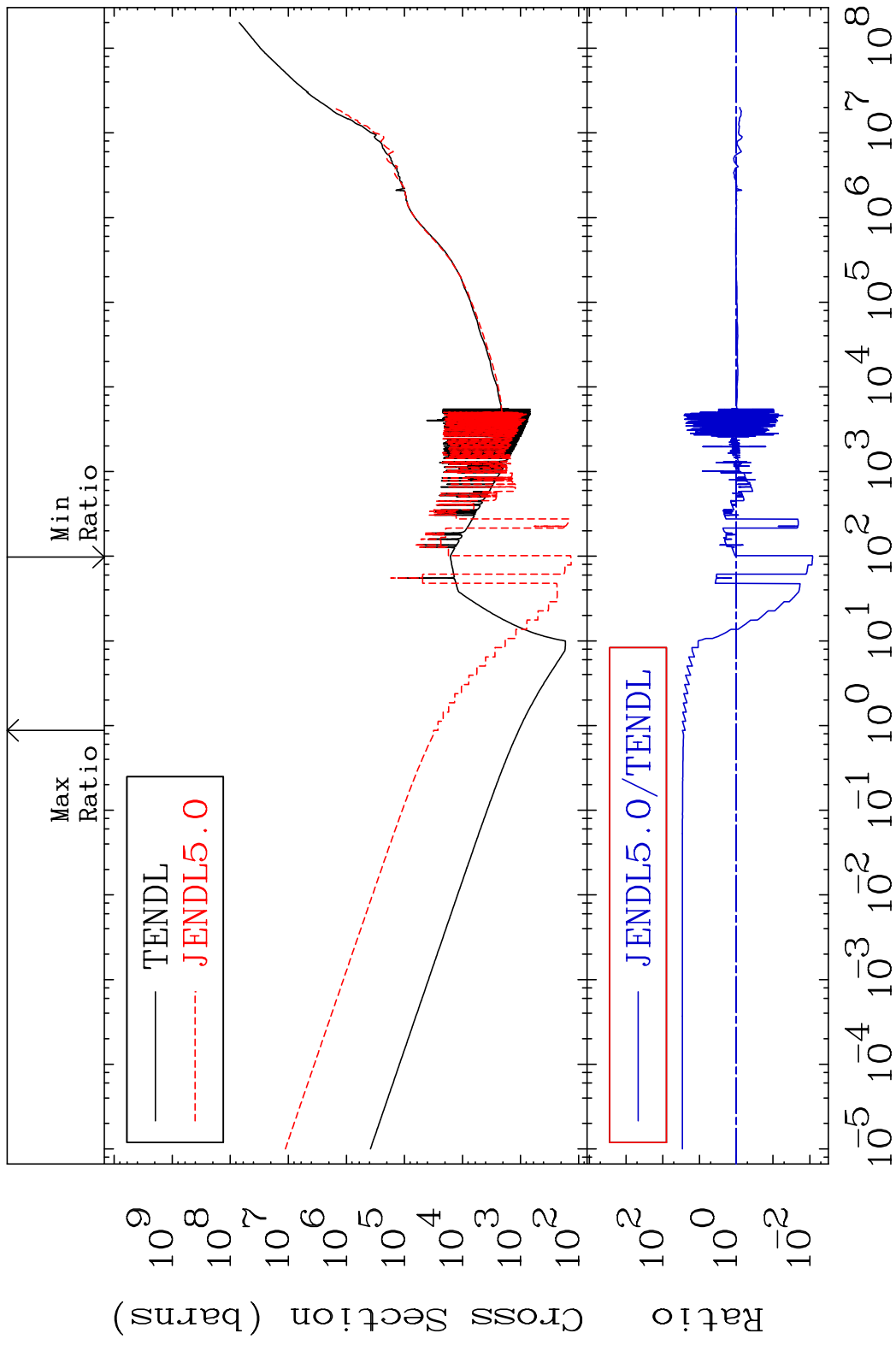
He-4 Production

60-Nd-143

Cross Section -99.45 To 296.4 %



MAT 6028 Kerma total (eV-barns) 60-Nd-143
 Cross Section -99.16 To 2831. %

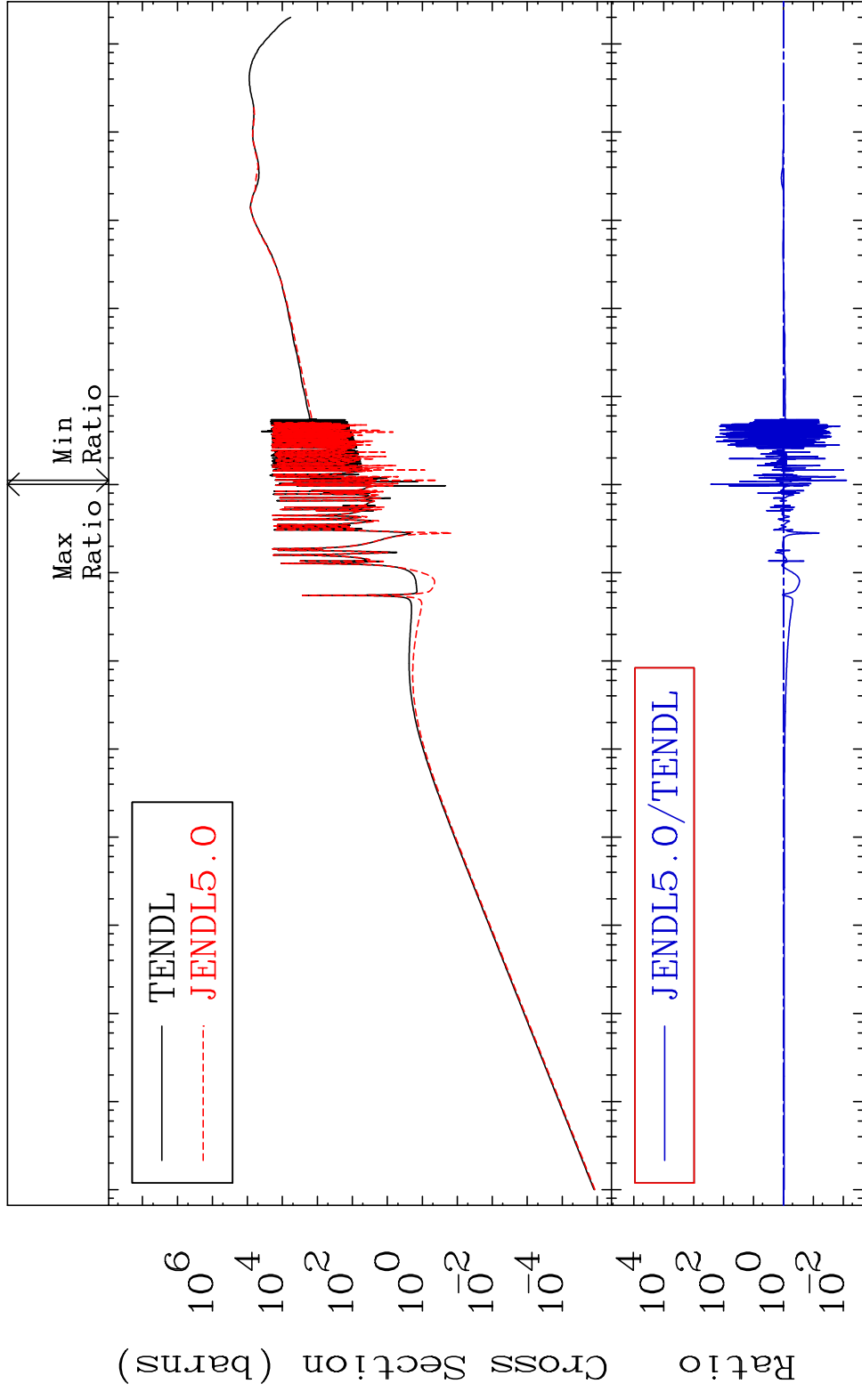


53 Incident Energy (eV) 60-Nd-143

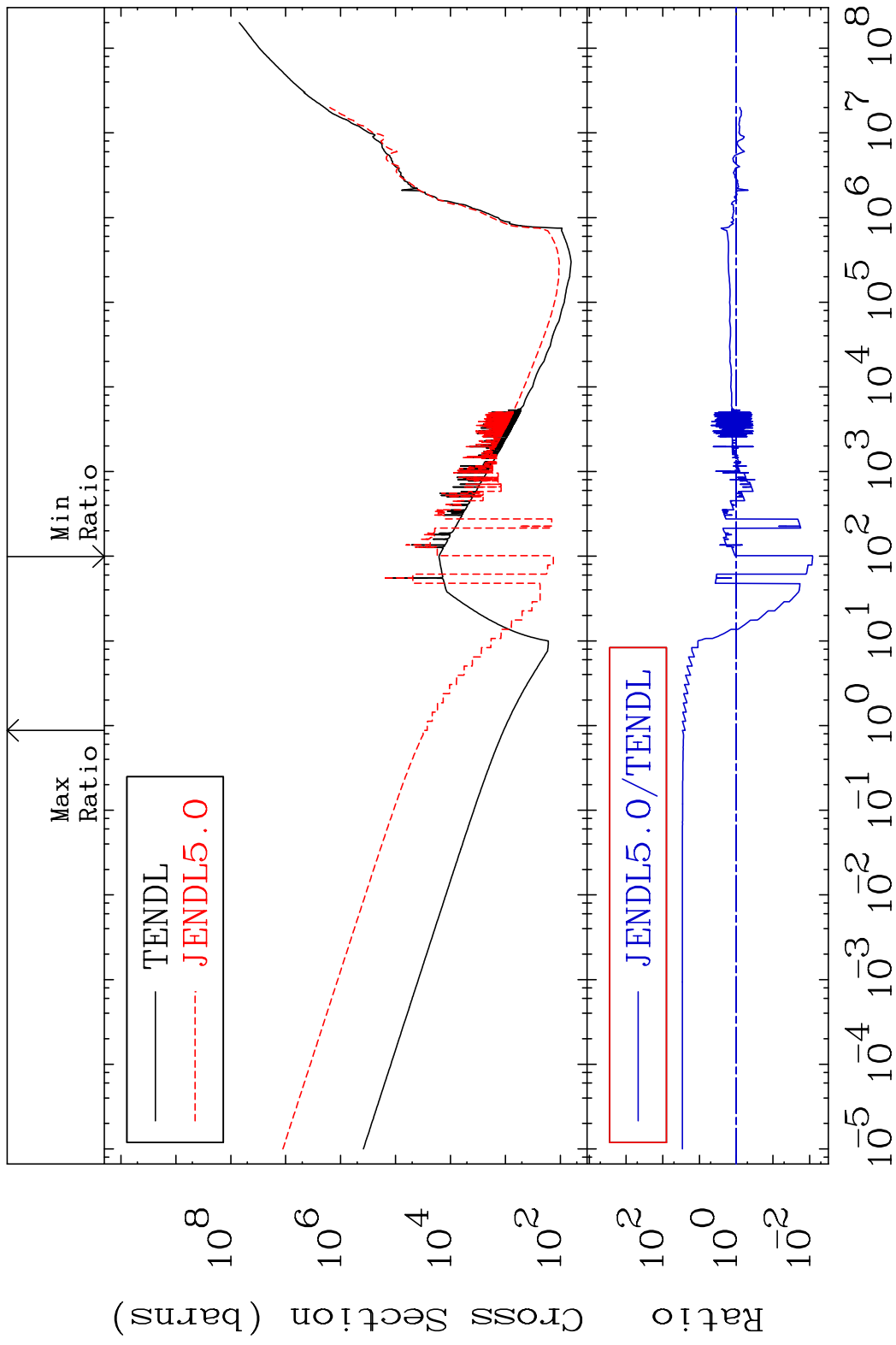
MAT 6028

Kerma elastic
Cross Section

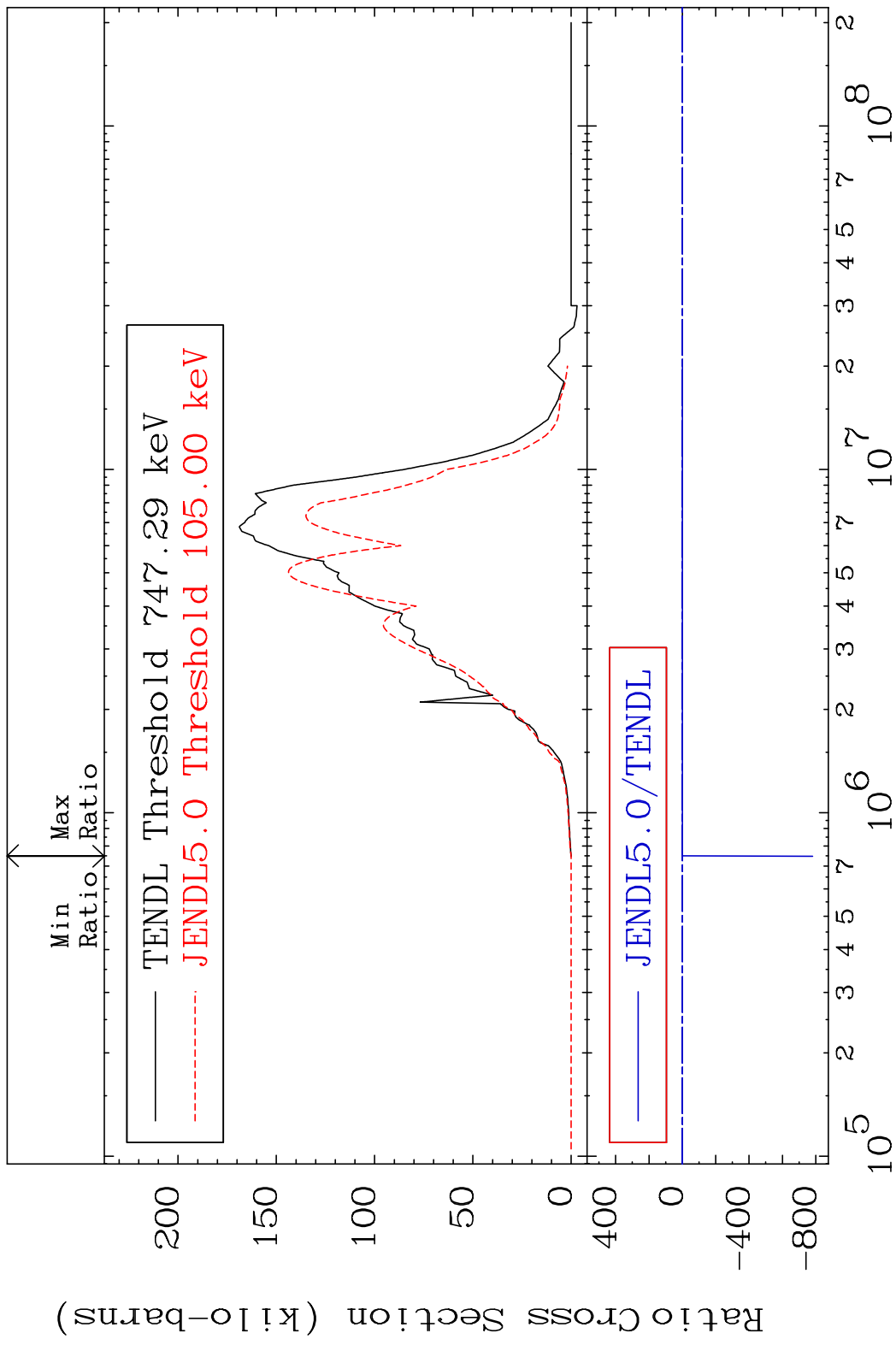
60-Nd-143
-99.21 To 9999. %



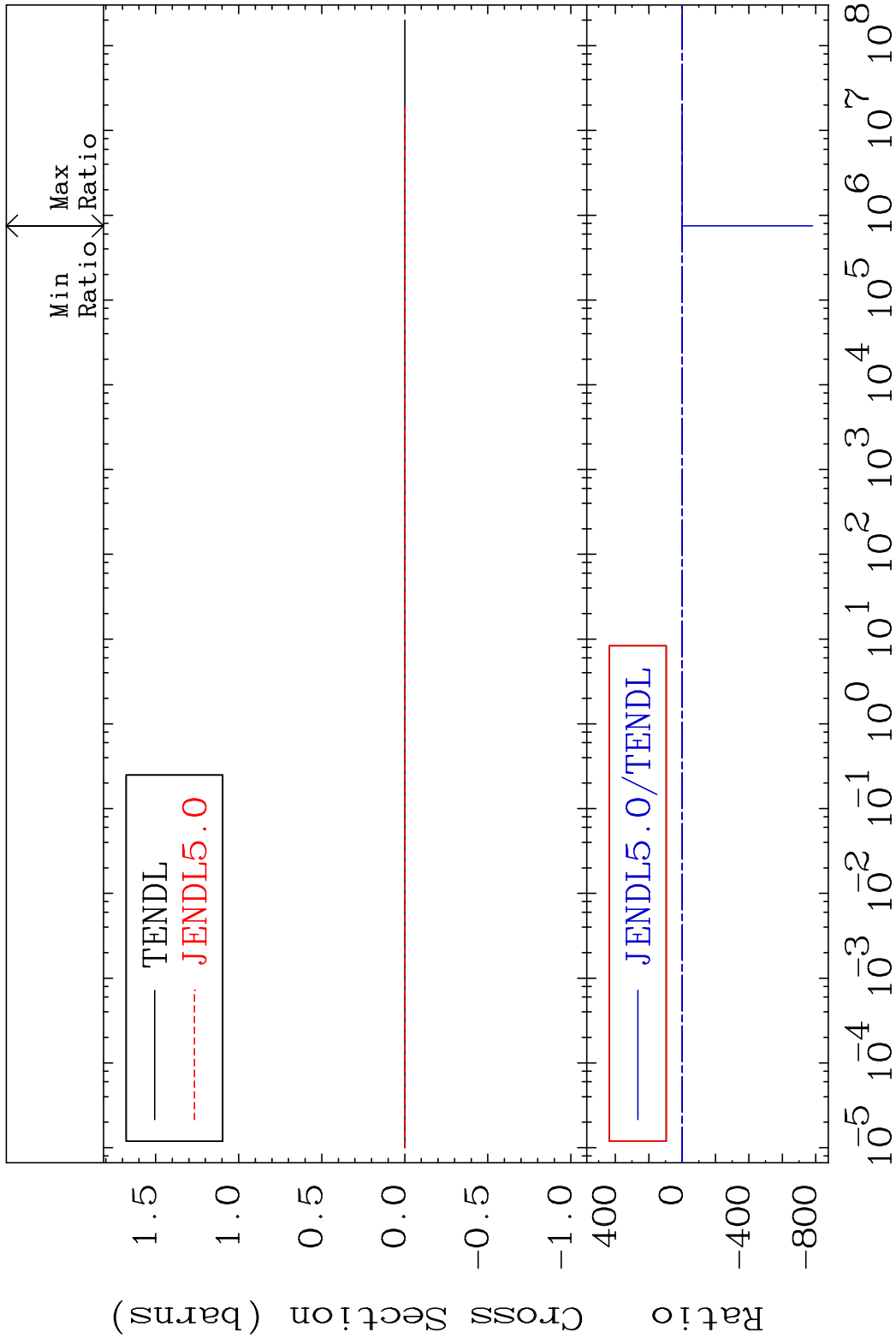
MAT 6028 Kerma non-elastic (all but mt2) 60-Nd-143
 Cross Section -99.16 To 2834. %



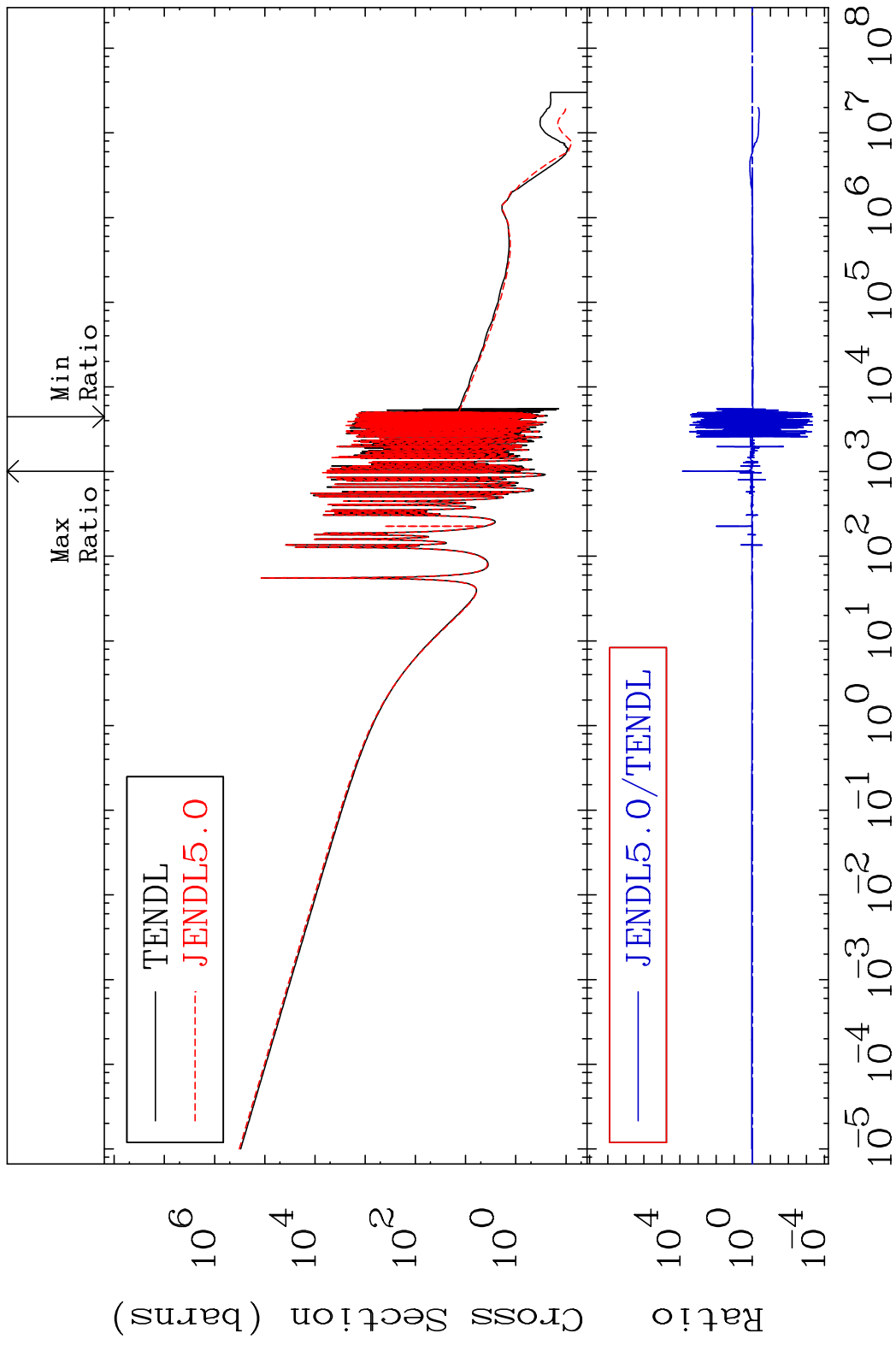
MAT 6028 Kerma inelastic (mt51-91) 60-Nd-143
 Cross Section -9999. To 337.6 %



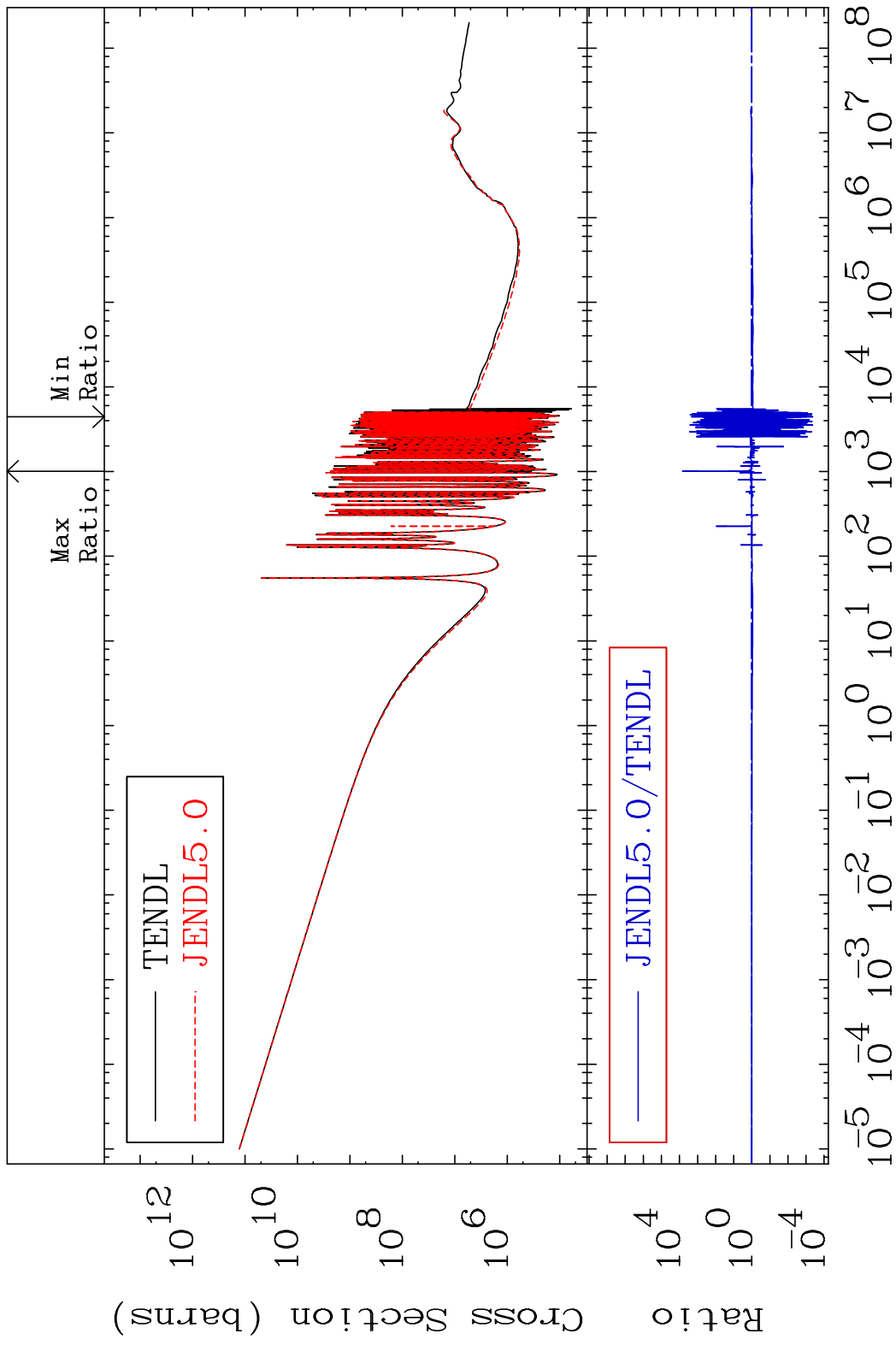
MAT 6028 Kerma fission (mt18 or mt19-20-21-38) 60-Nd-143
 Cross Section -9999. To 337.6 %



MAT 6028 Kerma capture (mt102) 60-Nd-143
 Cross Section -99.95 To 9999. %

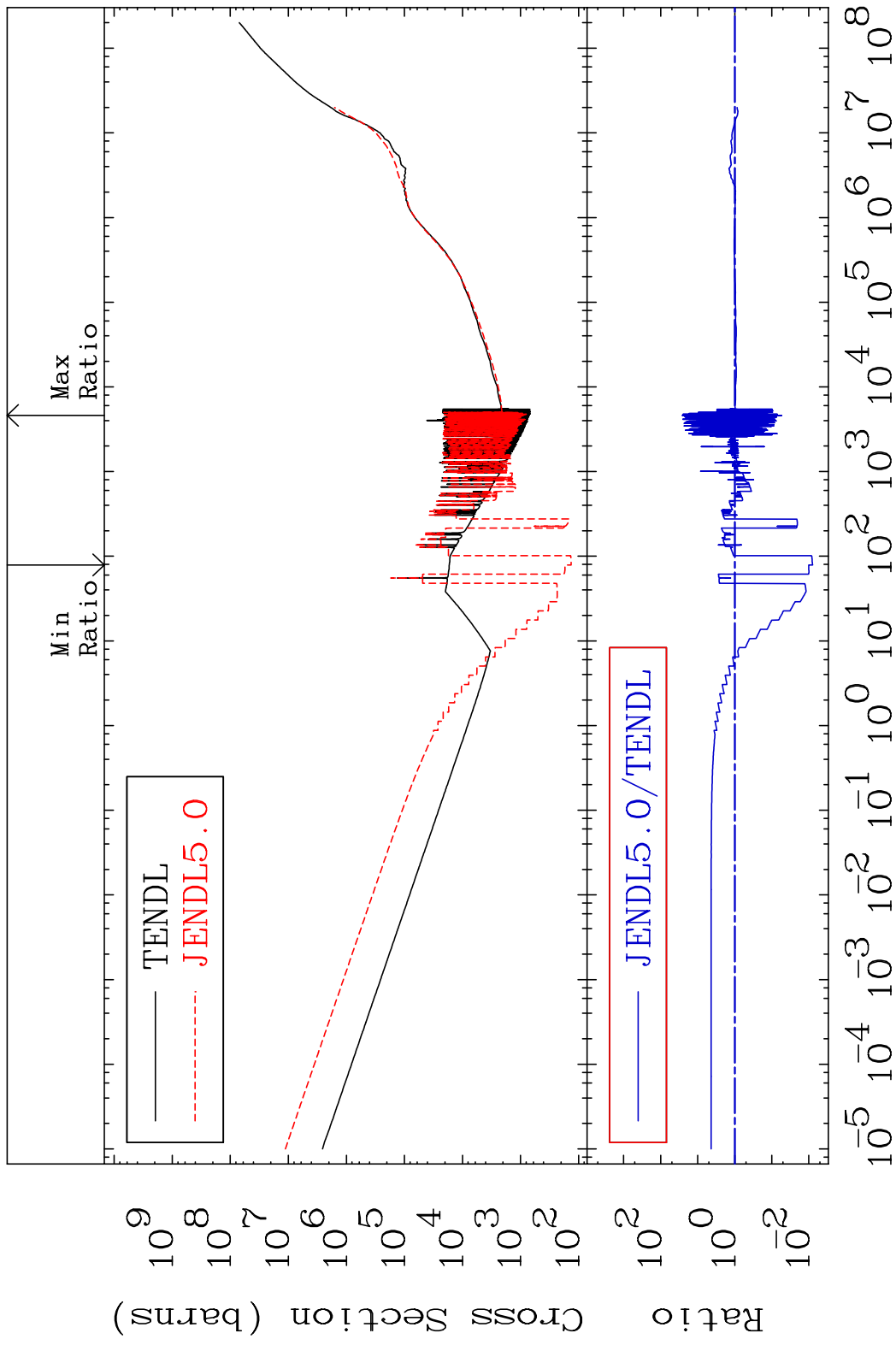


MAT 6028 Total photon (eV-barns) 60-Nd-143
 Cross Section -99.96 To 9999. %

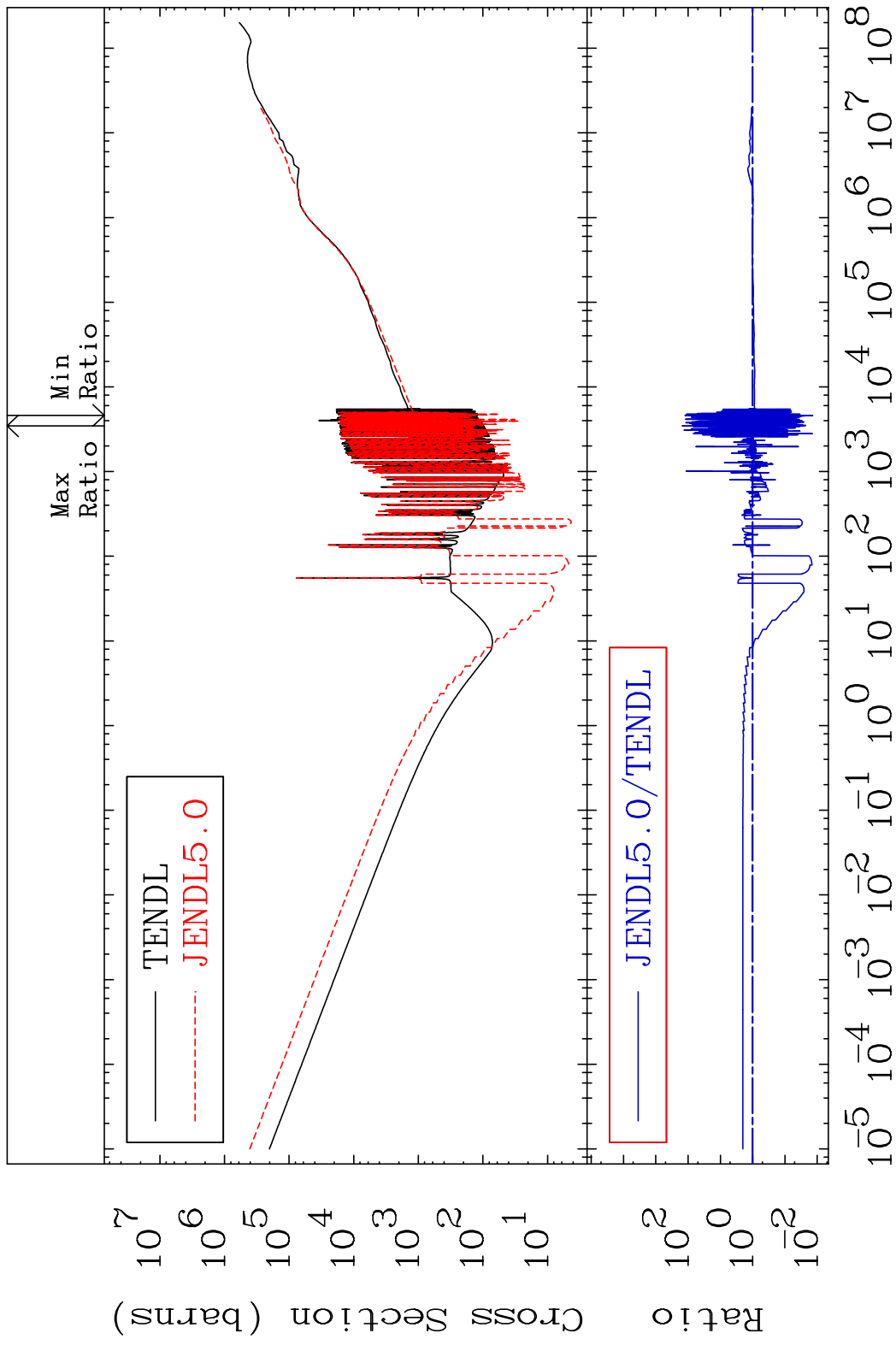


59 Incident Energy (eV) 60-Nd-143

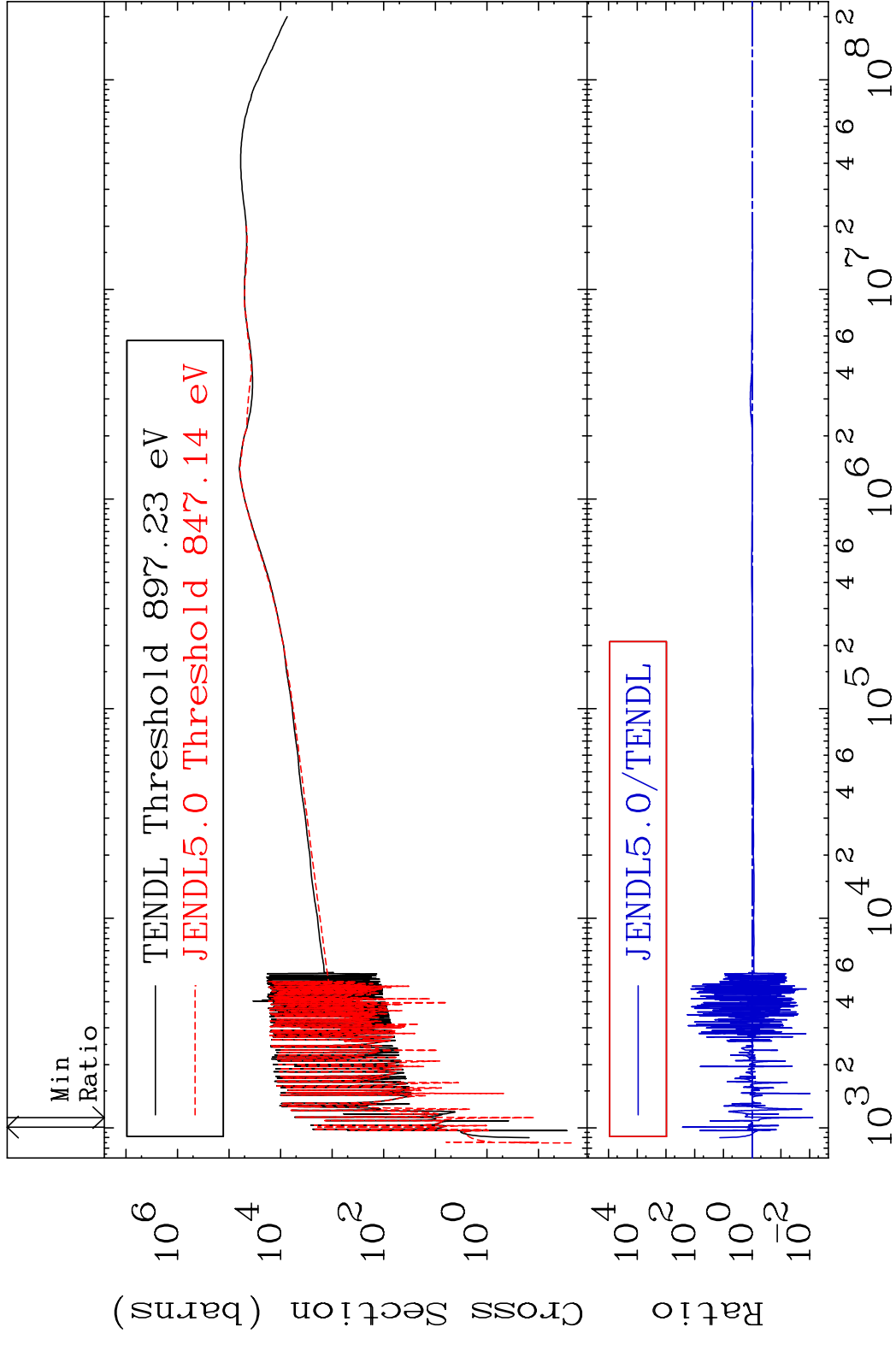
MAT 6028 Total kinematic kerma (high limit) 60-Nd-143
 Cross Section -99.21 To 2500. %



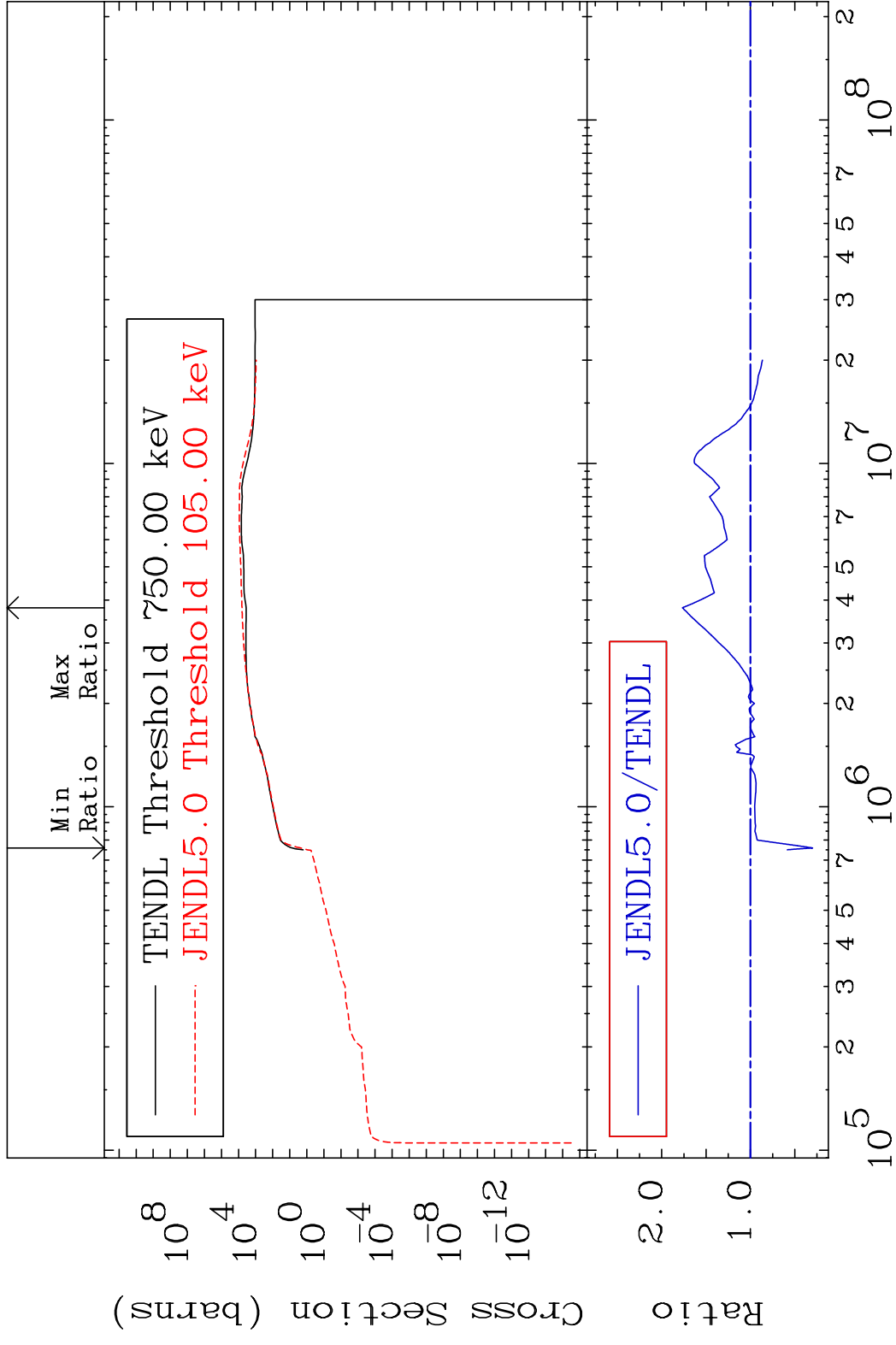
MAT 6028 Dpa total (eV-barns) 60-Nd-143
 Cross Section -98.60 To 9999. %



MAT 6028 Dpa elastic (mt2) 60-Nd-143
Cross Section -99.21 To 9999. %

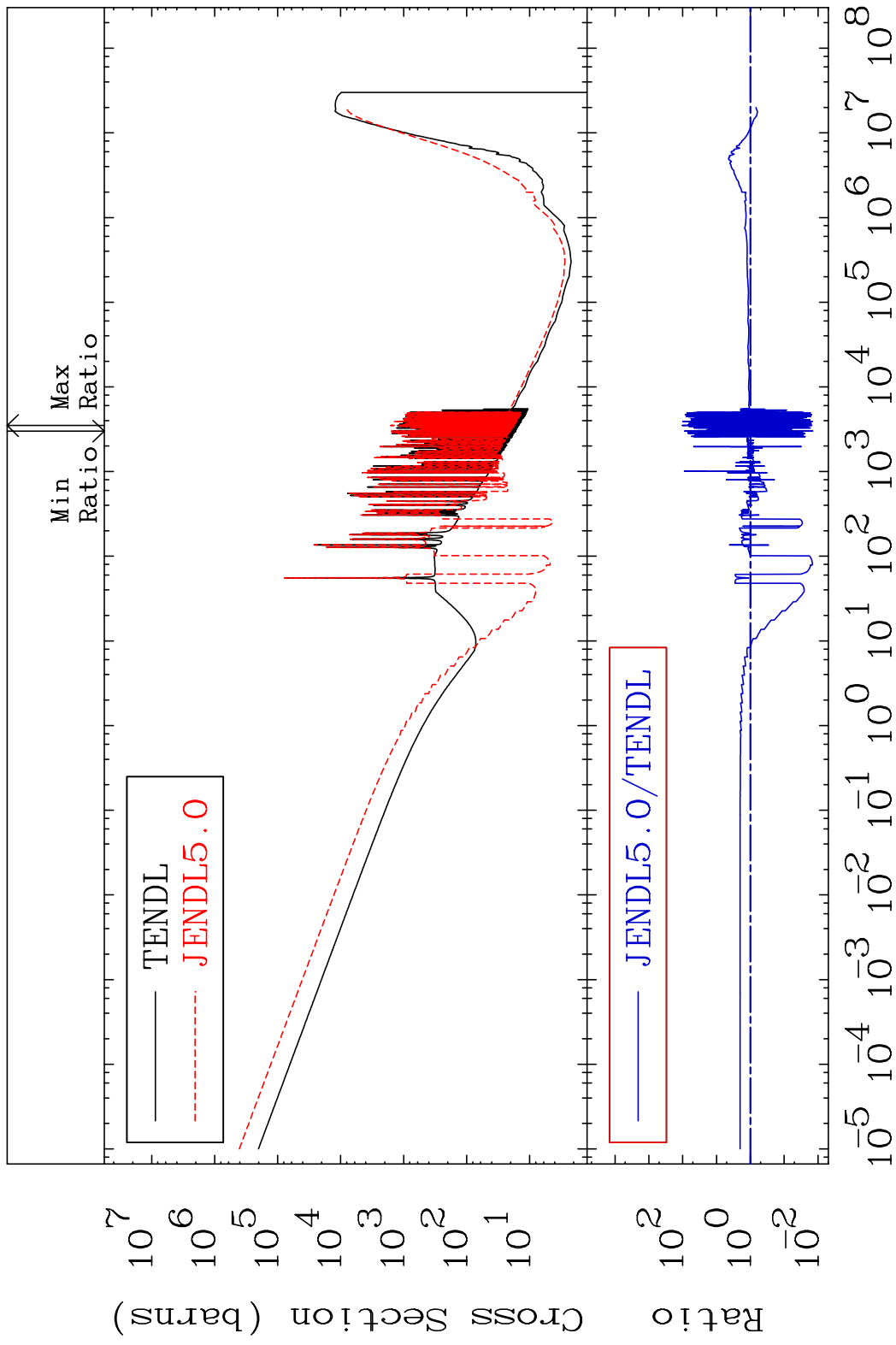


MAT 6028 Dpa inelastic (mt51-91) 60-Nd-143
 Cross Section -70.05 To 76.72 %



63 Incident Energy (eV) 60-Nd-143

MAT 6028 Dpa disappearance (mt102 -120) 60-Nd-143
 Cross Section -98.55 To 9999. %

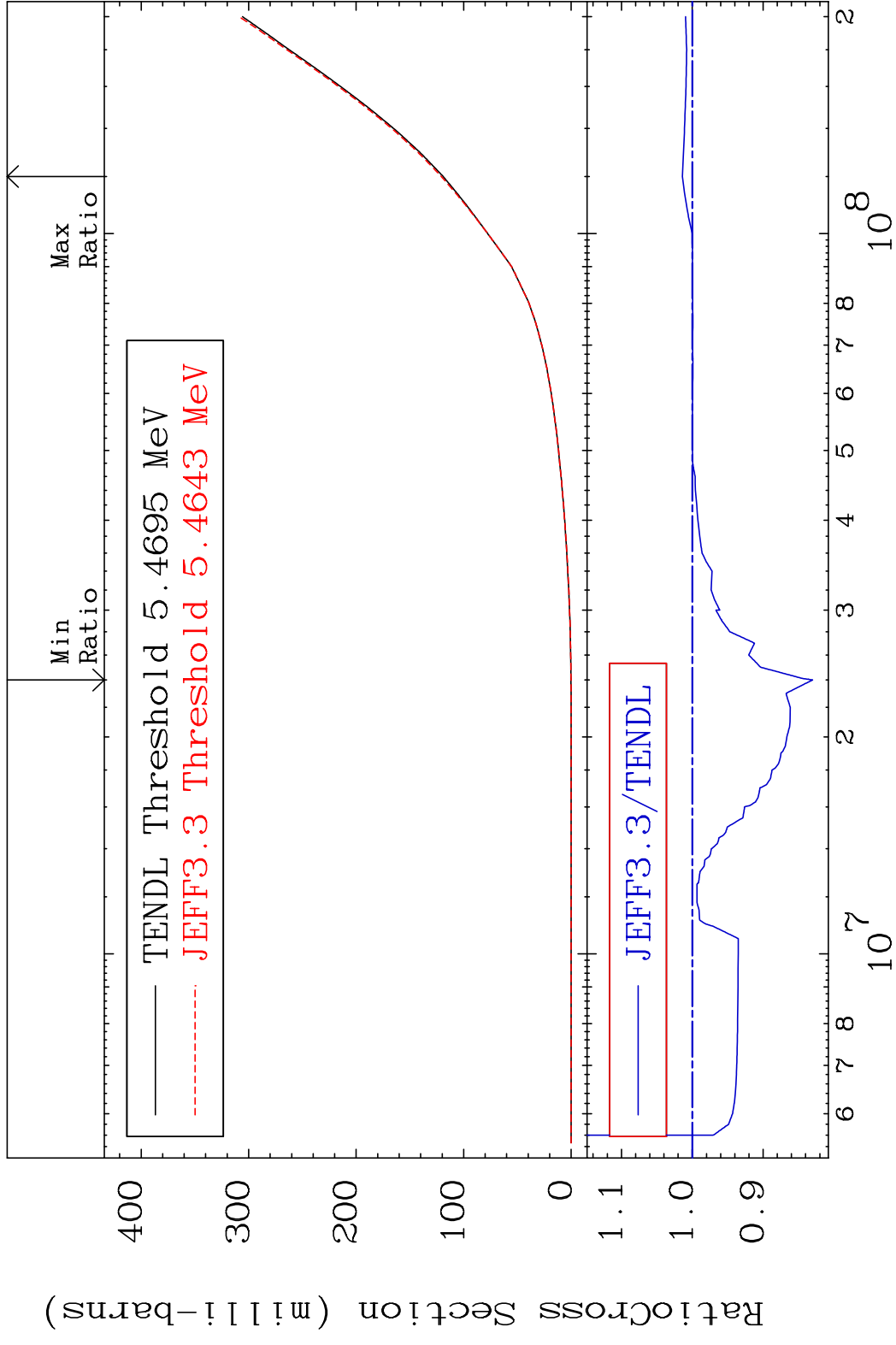


MAT 6028

He-3 Production

60-Nd-143

Cross Section -16.98 To 1.401 %



65

Incident Energy (eV)

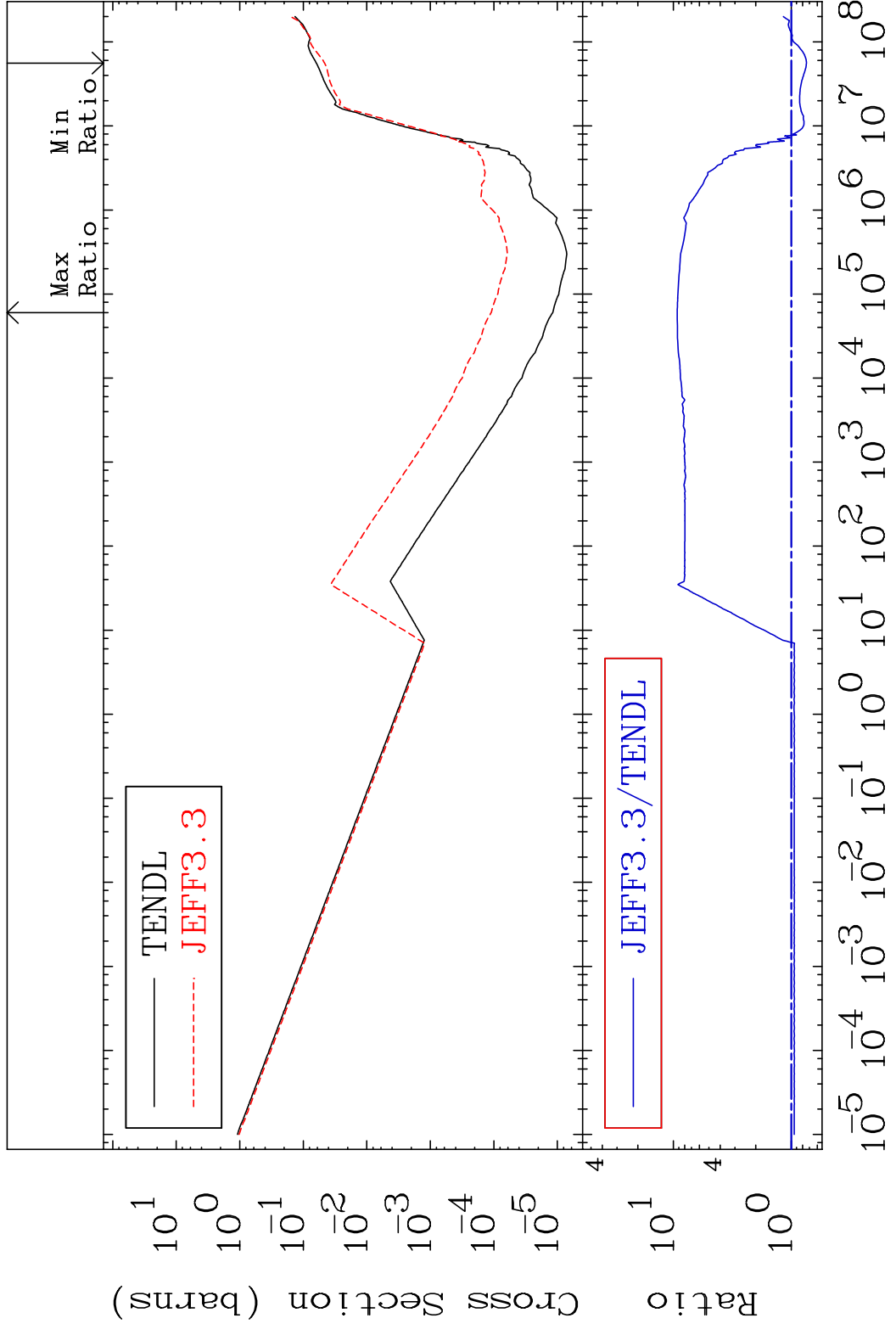
60-Nd-143

MAT 6028

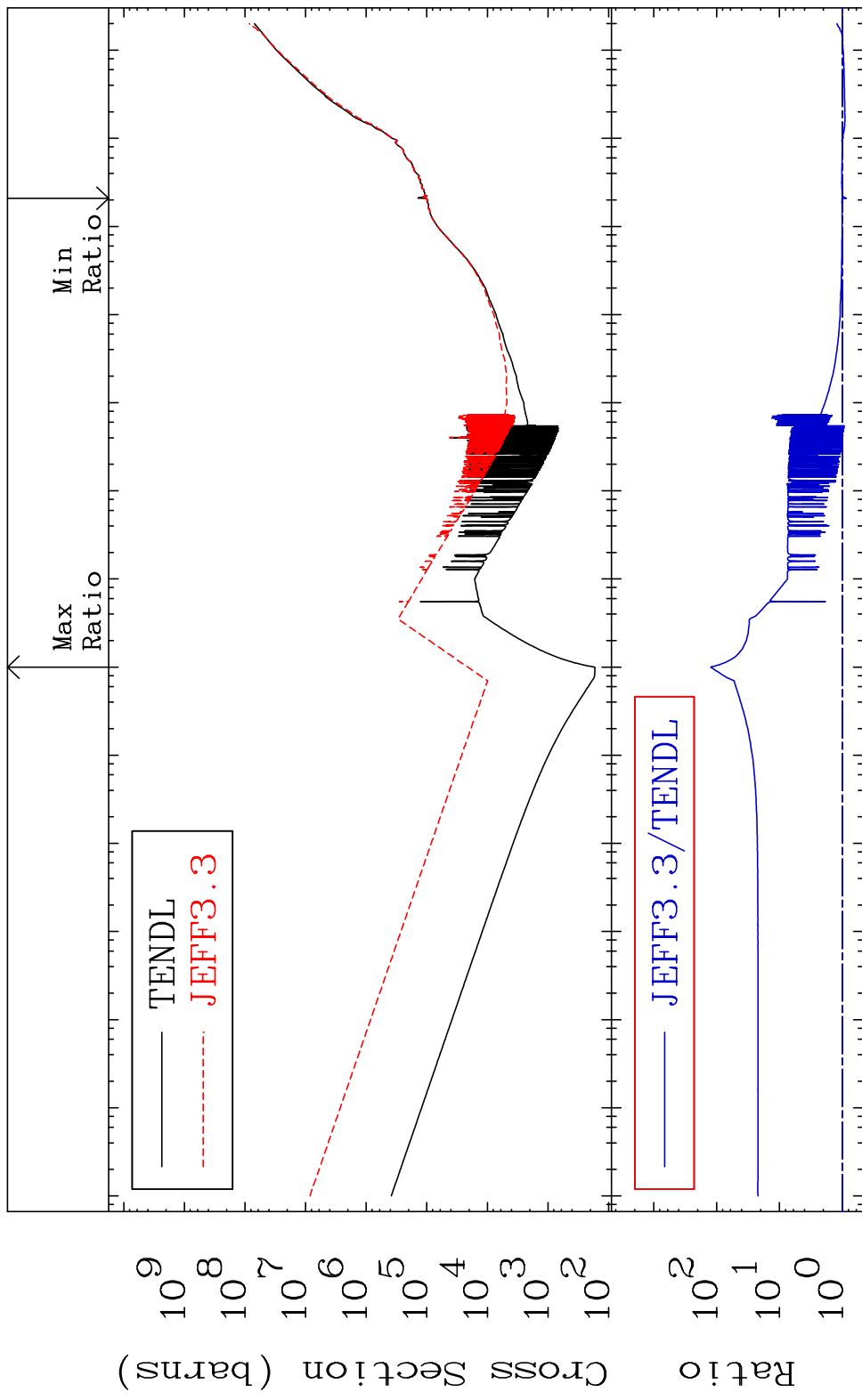
He-4 Production

60-Nd-143

Cross Section -25.70 To 827.5 %



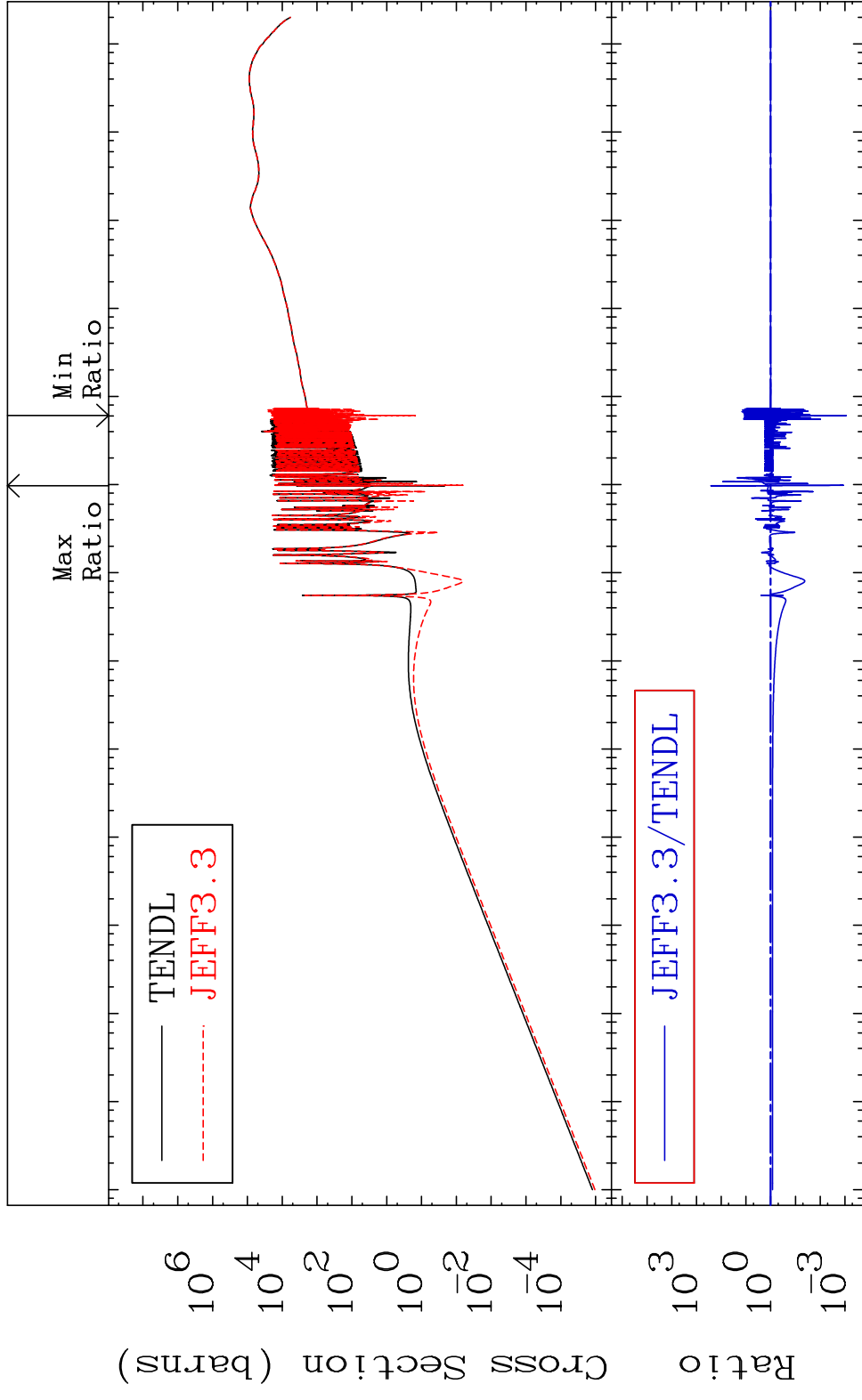
MAT 6028 Kerma total (eV-barns) 60-Nd-143
 Cross Section -13.56 To 9999. %



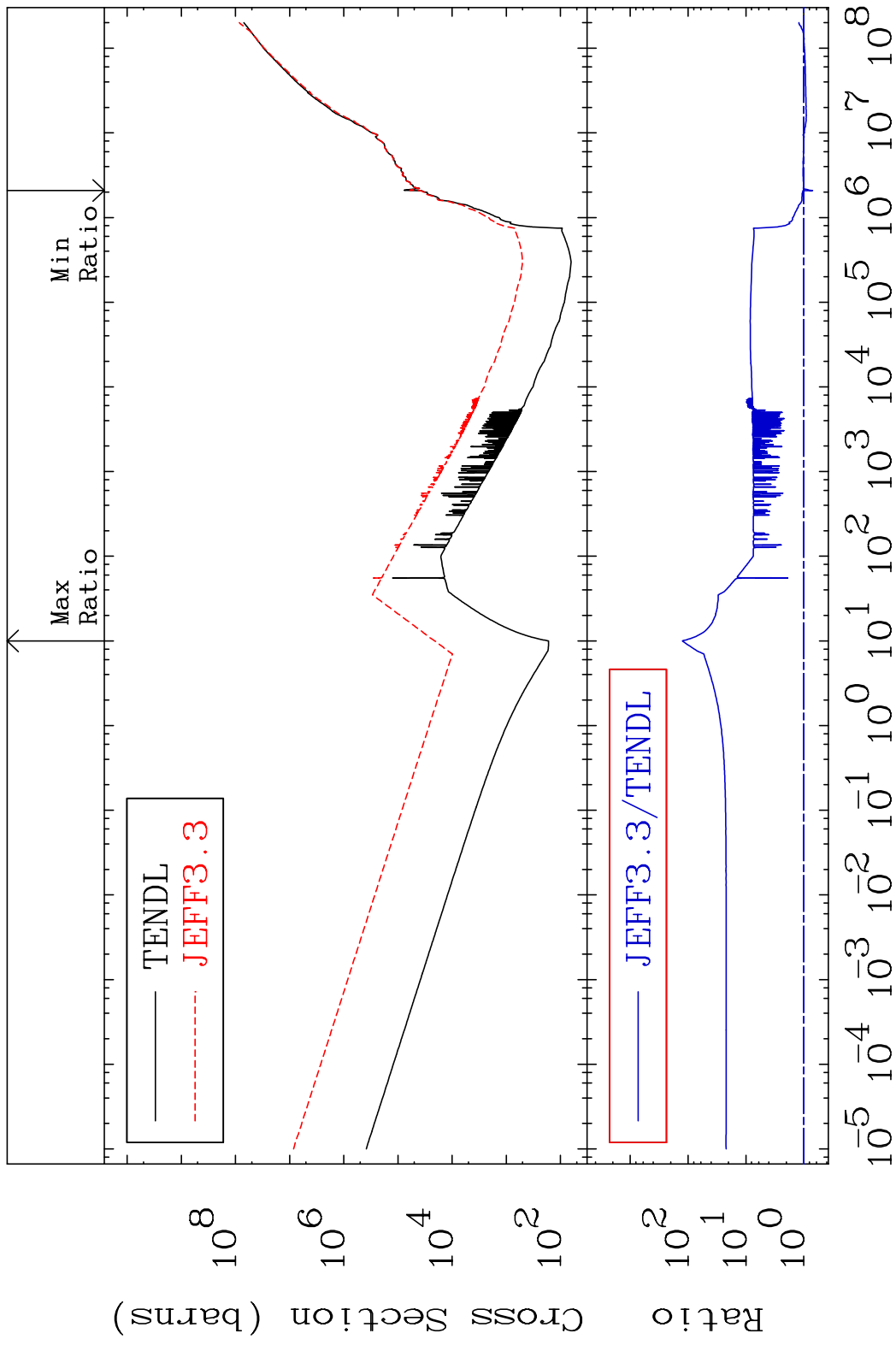
MAT 6028

Kerma elastic
Cross Section

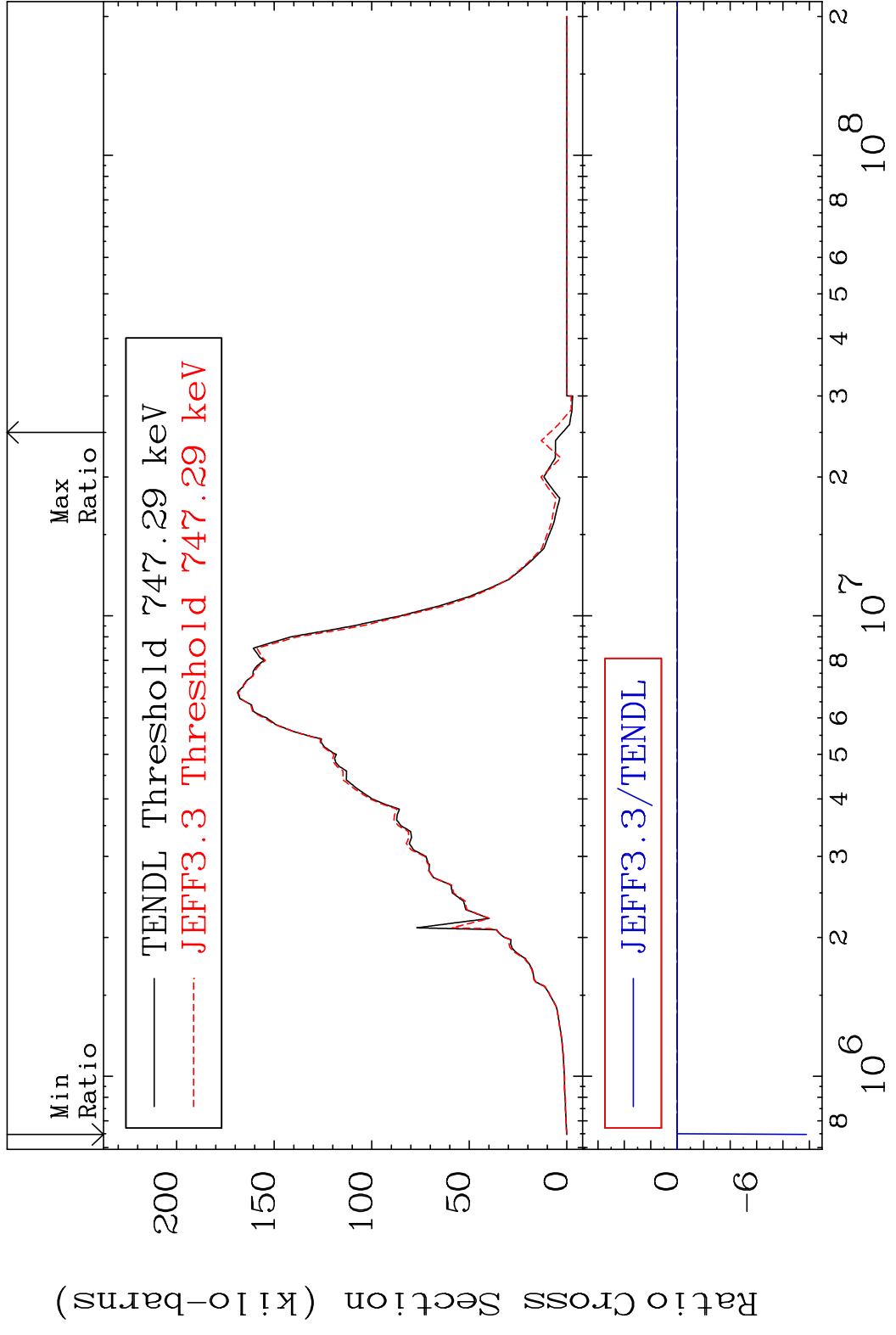
60-Nd-143
-99.91 To 9999. %



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

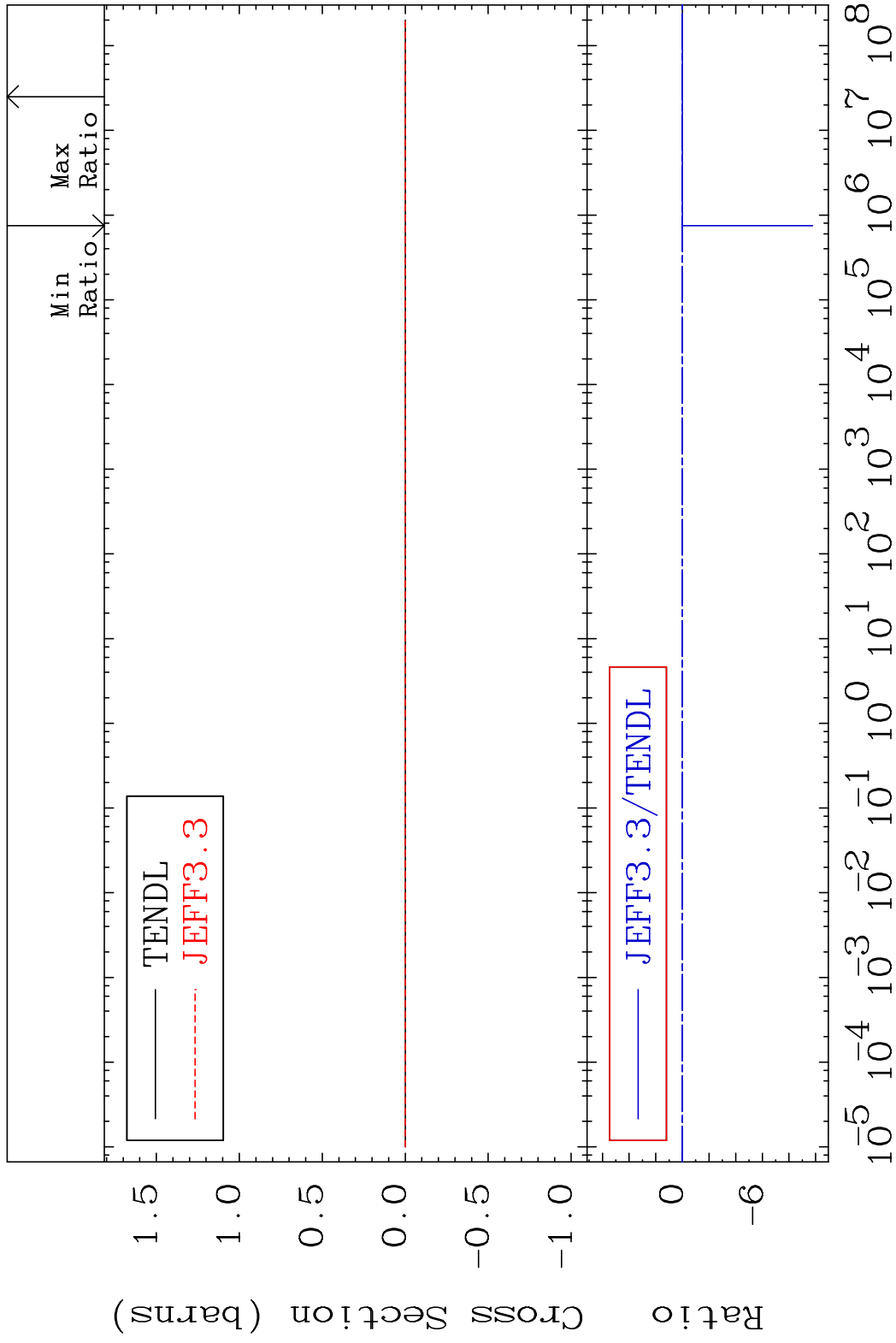


MAT 6028 Kerma inelastic (mt51-91) 60-Nd-143
 Cross Section -9999. To 285.7 %



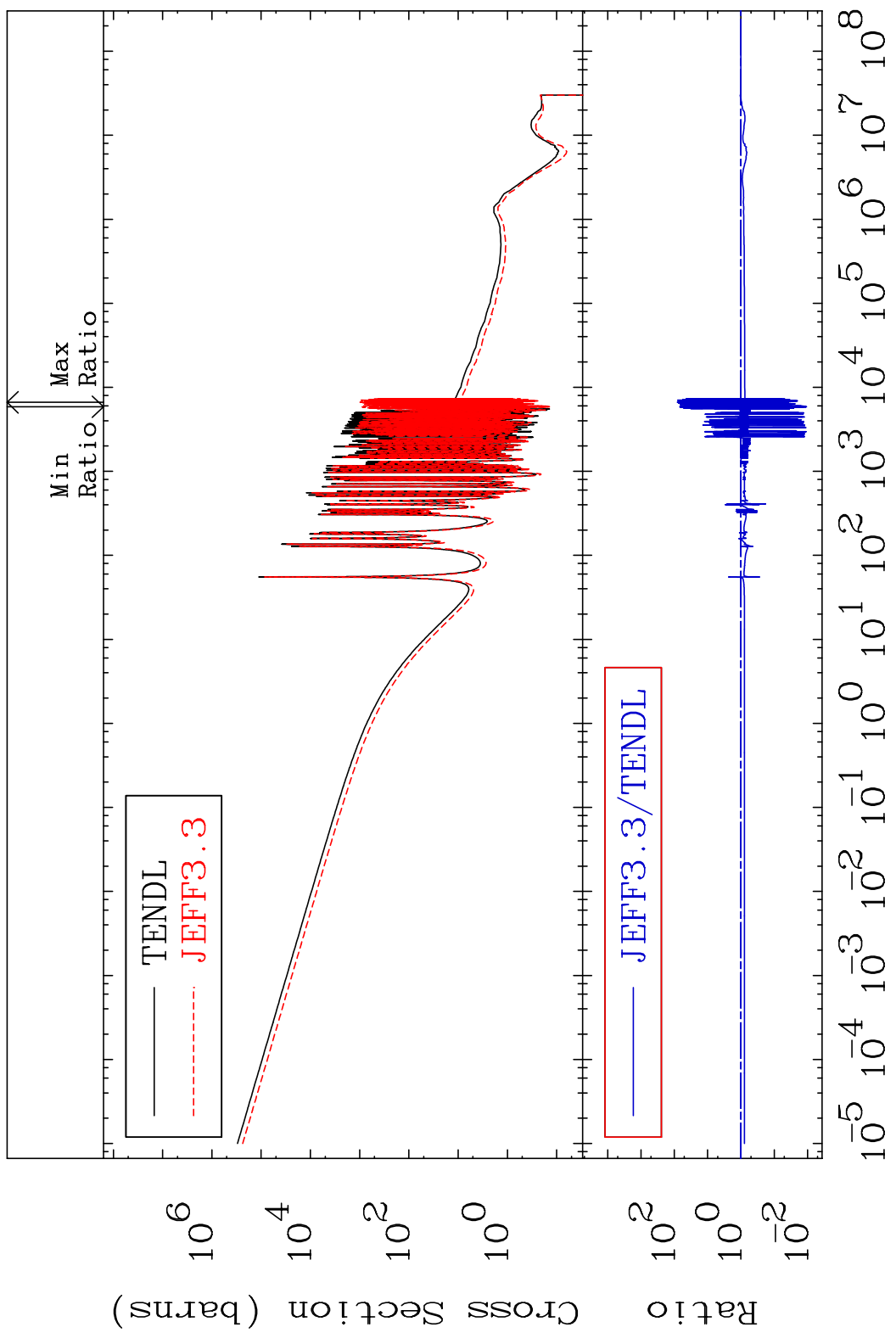
70 Incident Energy (eV) 60-Nd-143

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



MAT 6028

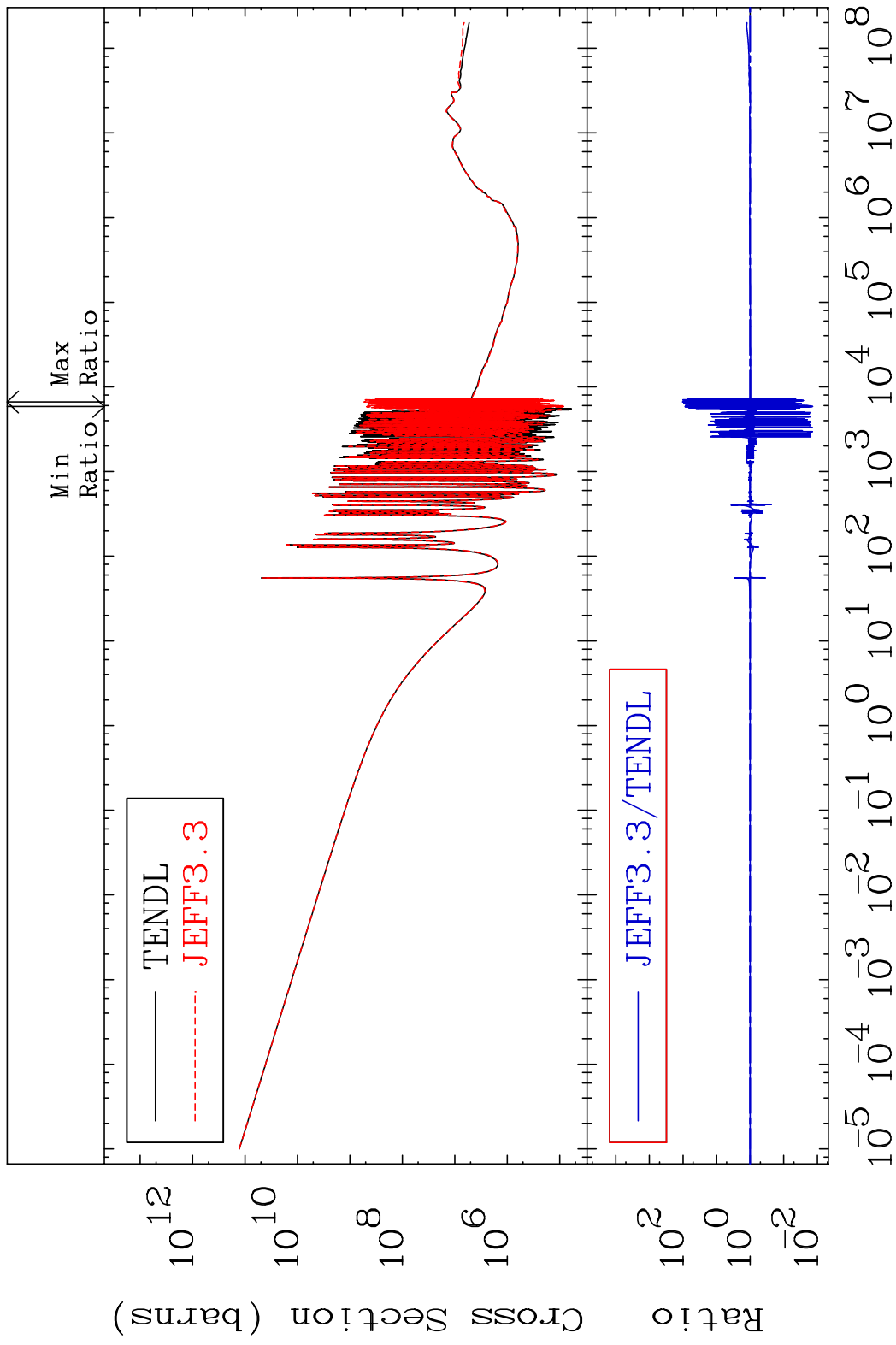
Kerma capture (mt102) 60-Nd-143
Cross Section -98.92 To 8099. %



72

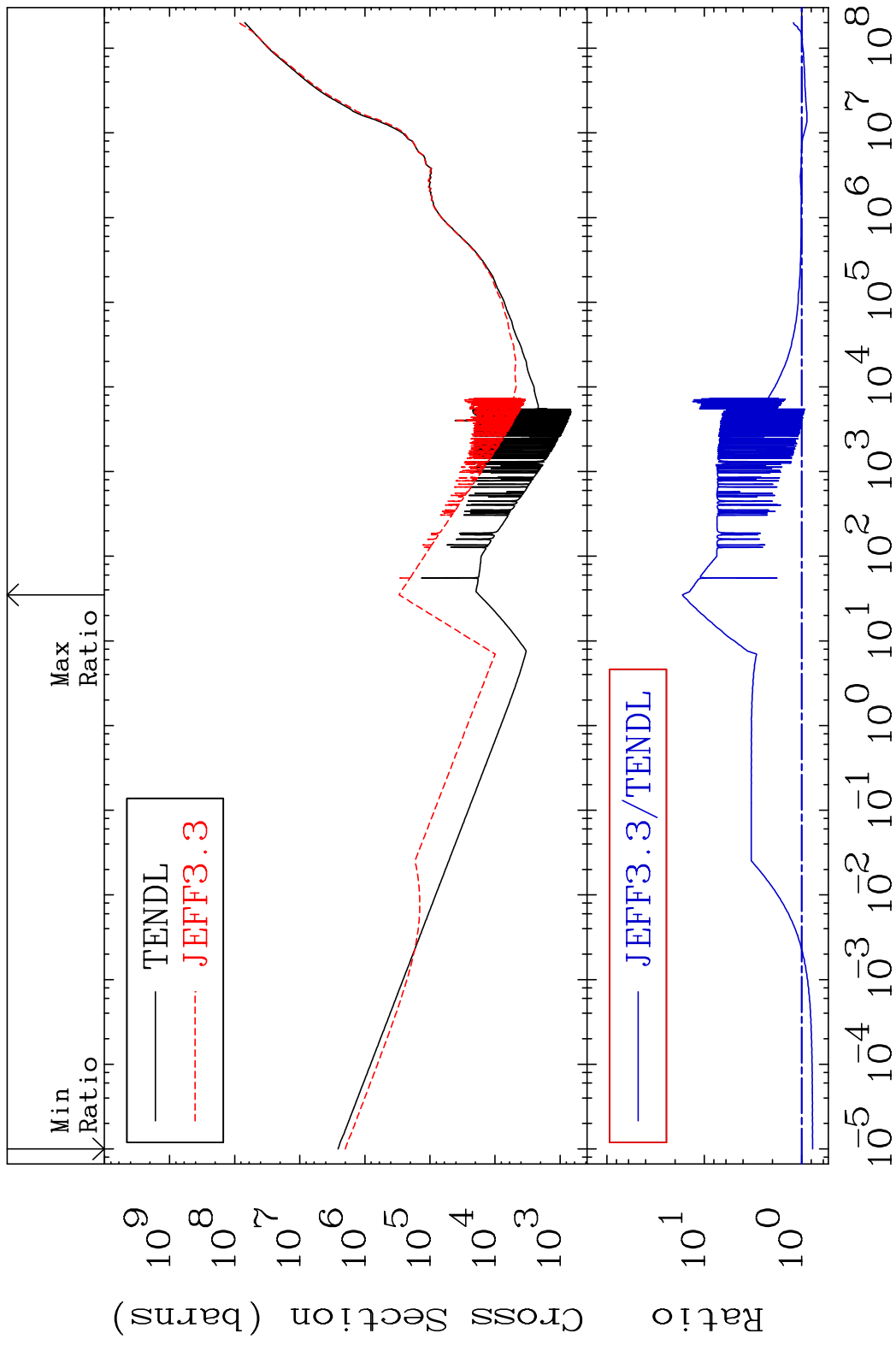
Incident Energy (eV) 60-Nd-143

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. %

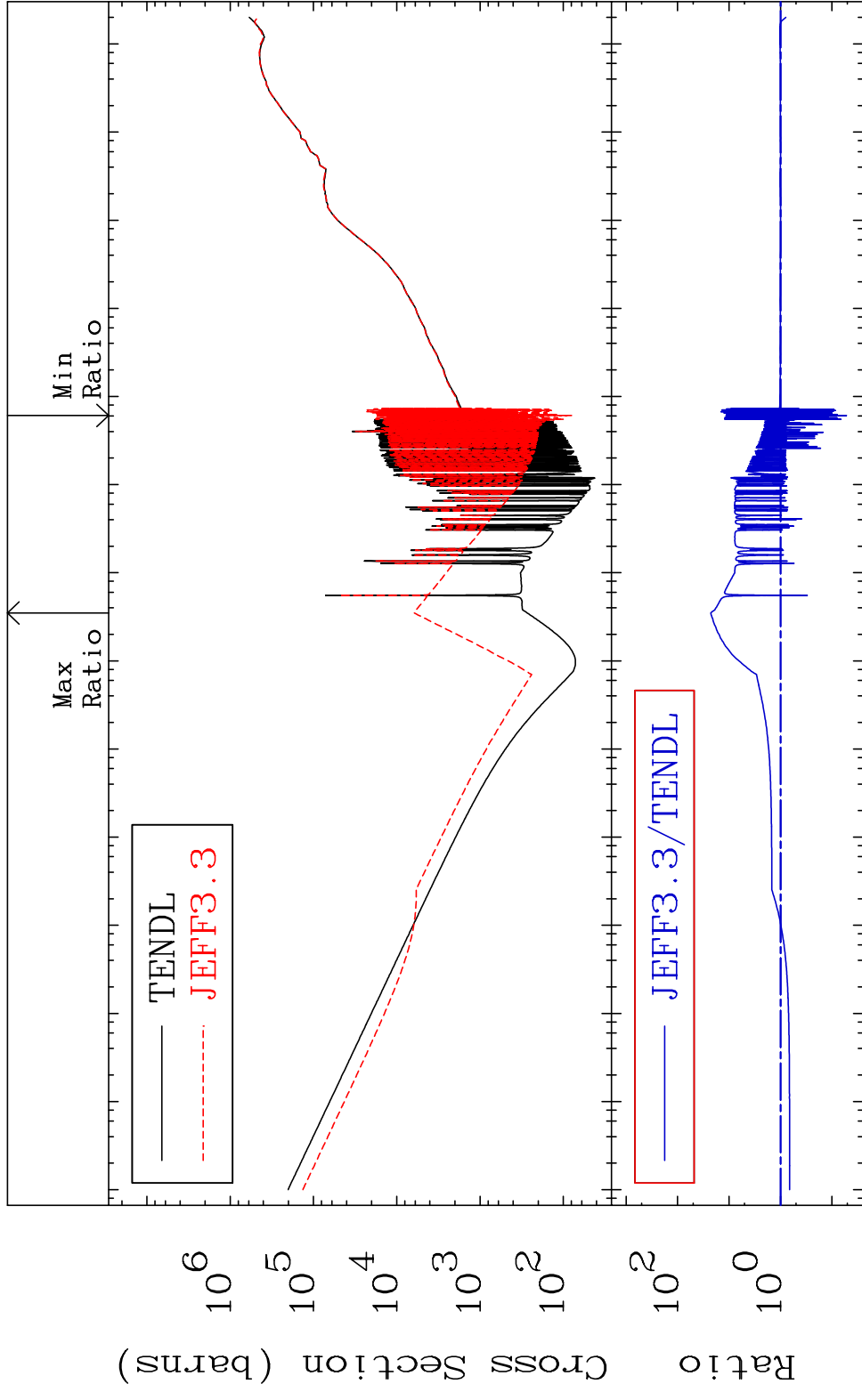


MAT 6028

Dpa total (eV-barns)

60-Nd-143

Cross Section -94.76 To 2171. %



75

Incident Energy (eV)

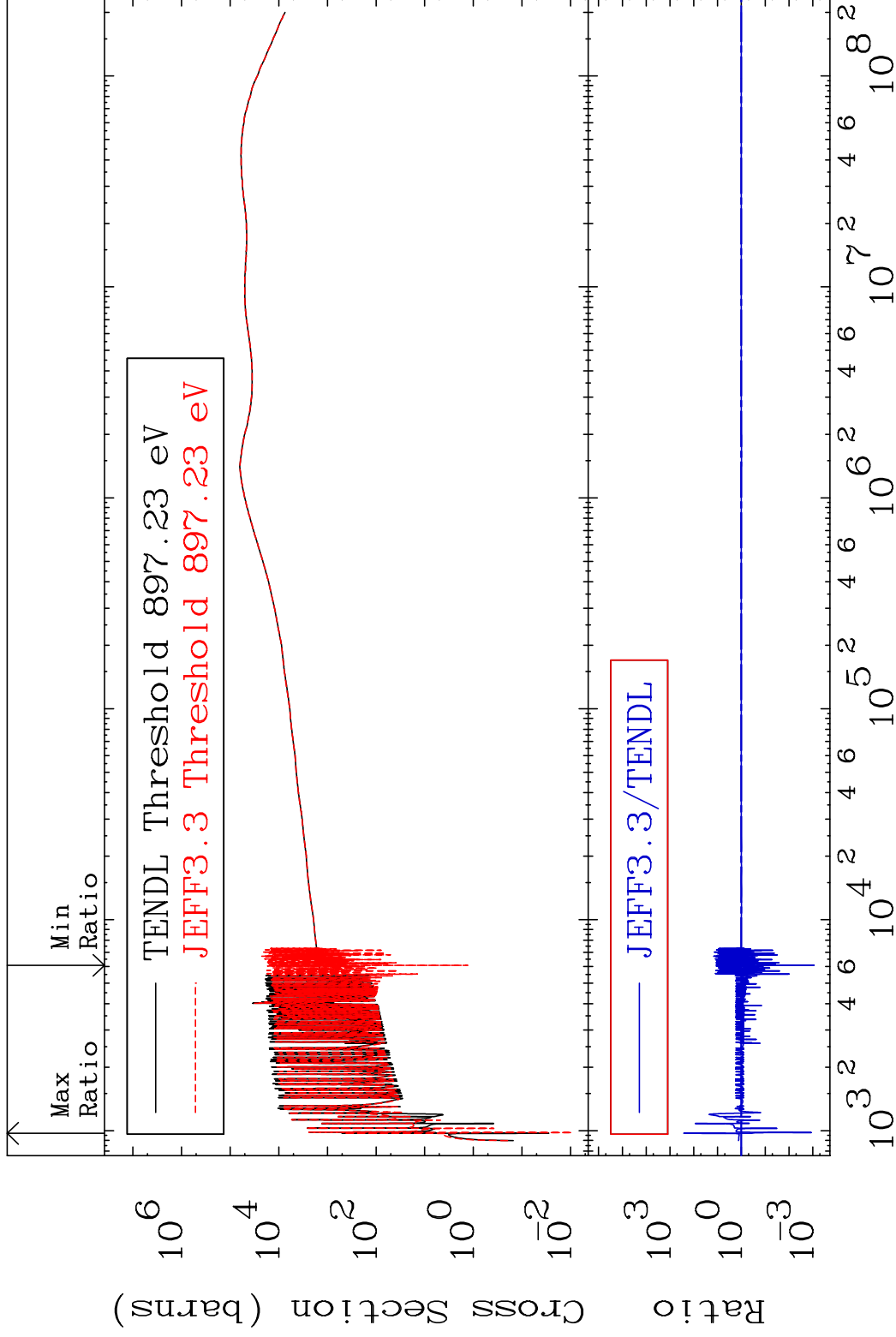
60-Nd-143

MAT 6028

Dpa elastic (mt2)

60-Nd-143

Cross Section -99.91 To 9999. %

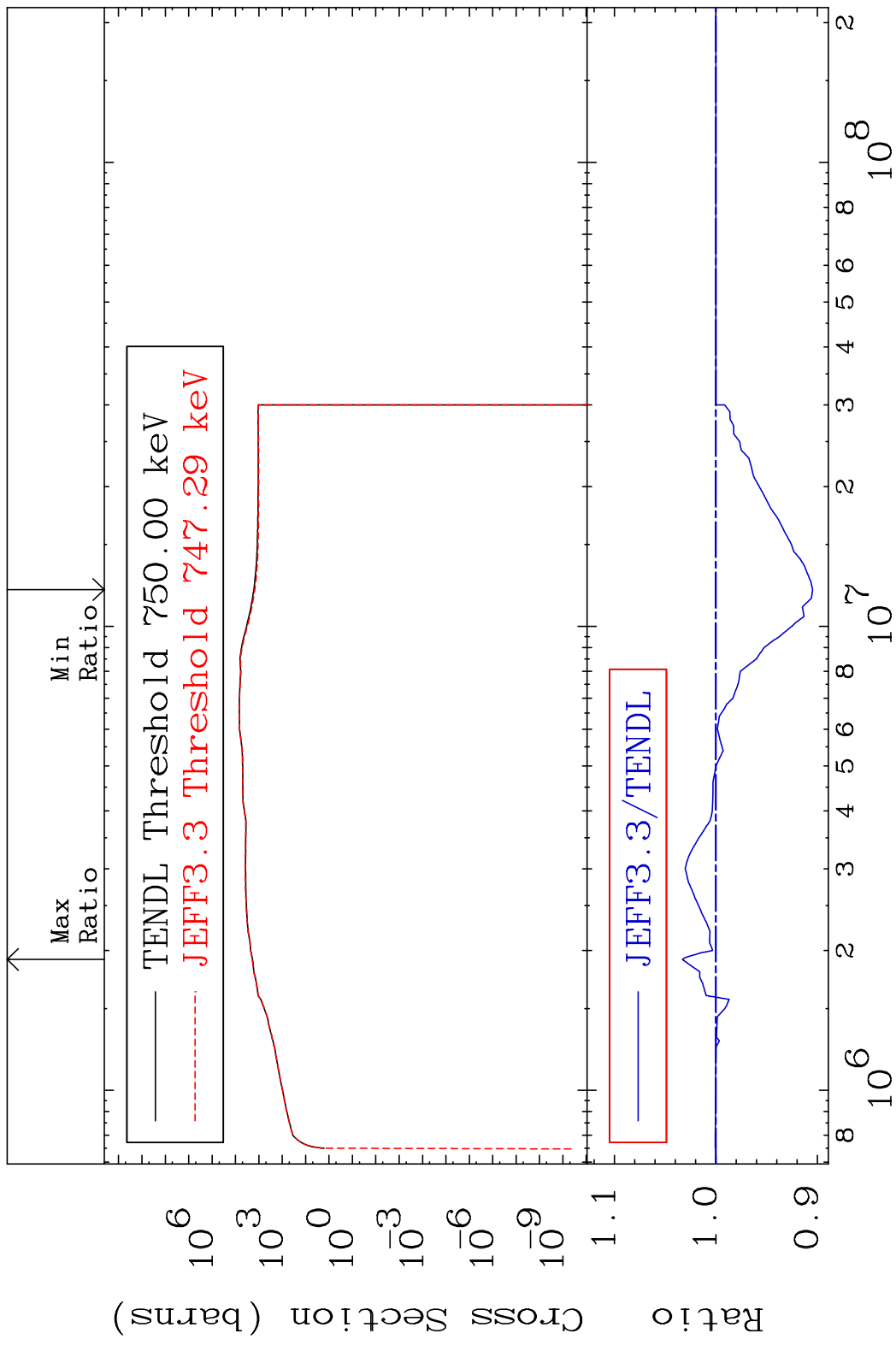


76

Incident Energy (eV)

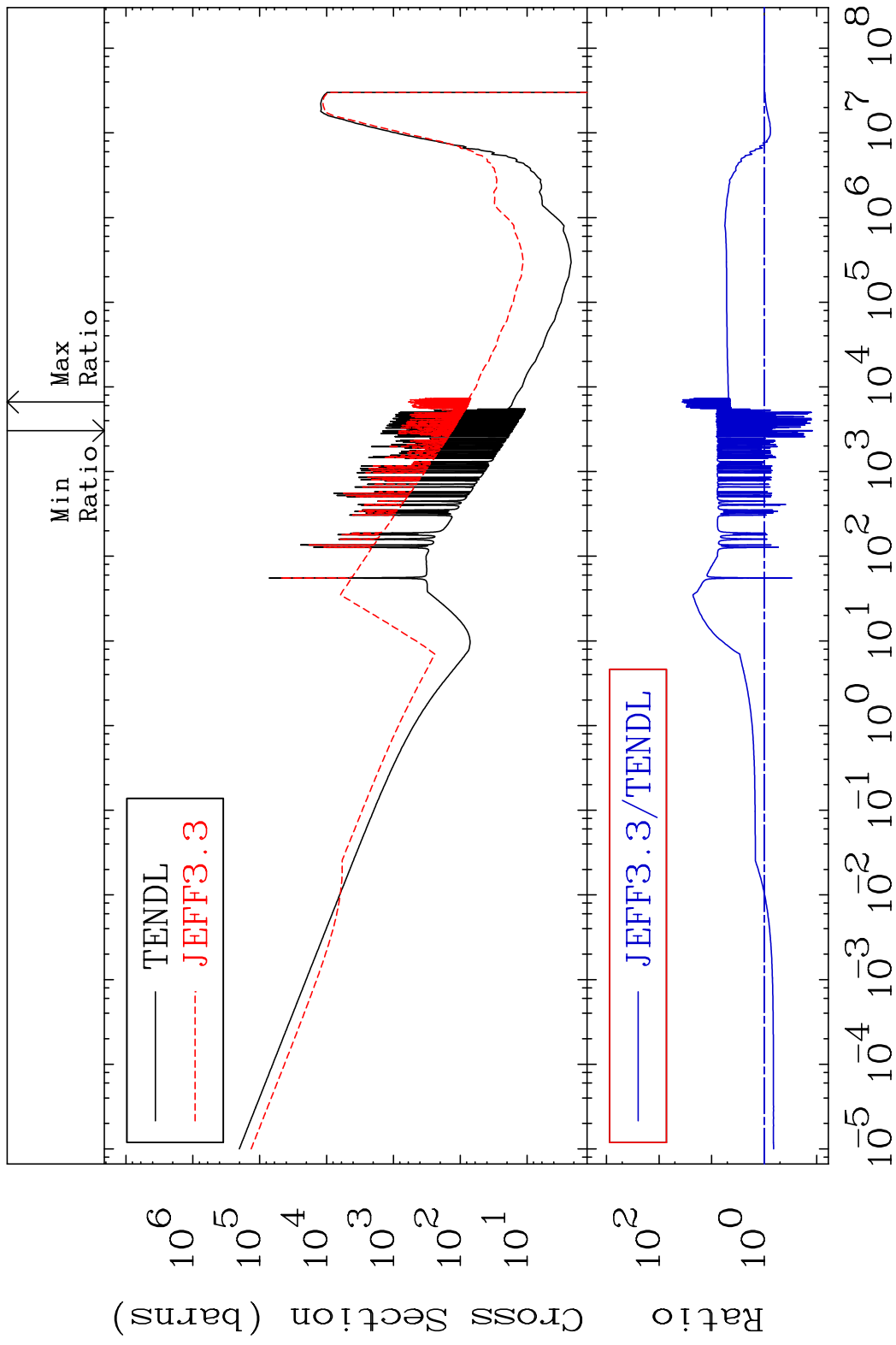
60-Nd-143

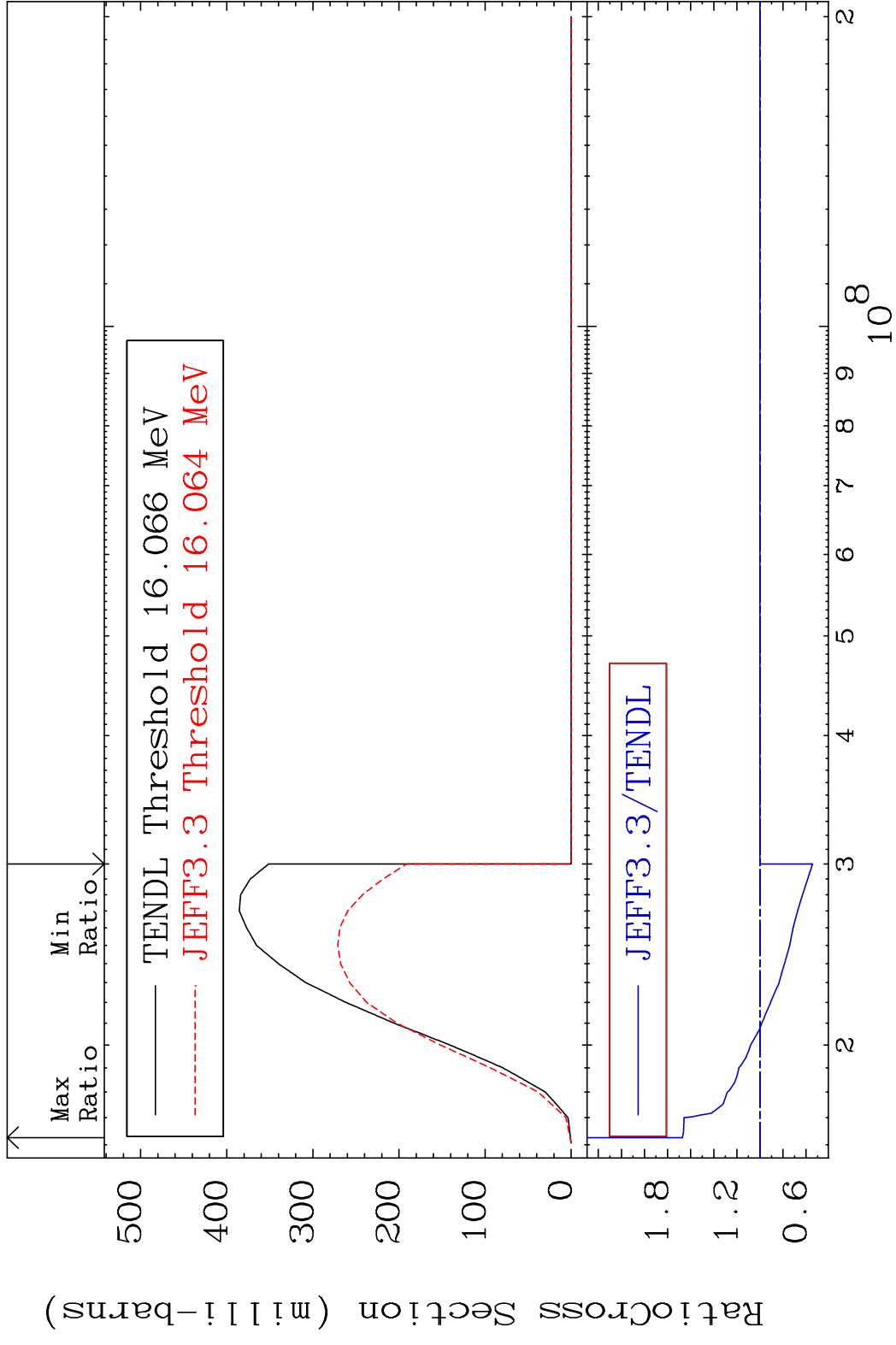
MAT 6028 Dpa inelastic (mt51-91) 60-Nd-143
 Cross Section -9.529 To 3.301 %



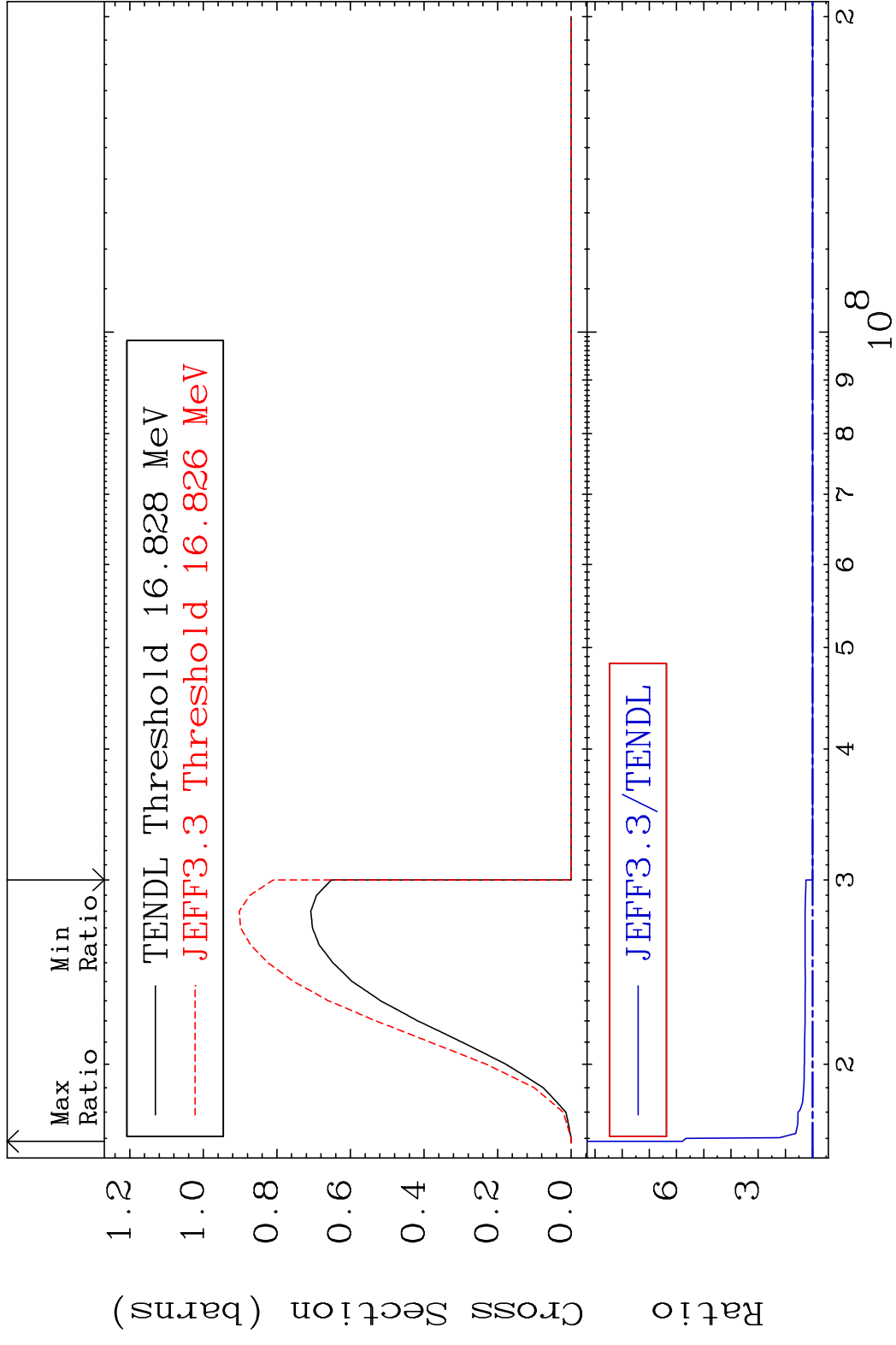
77 Incident Energy (eV) 60-Nd-143

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

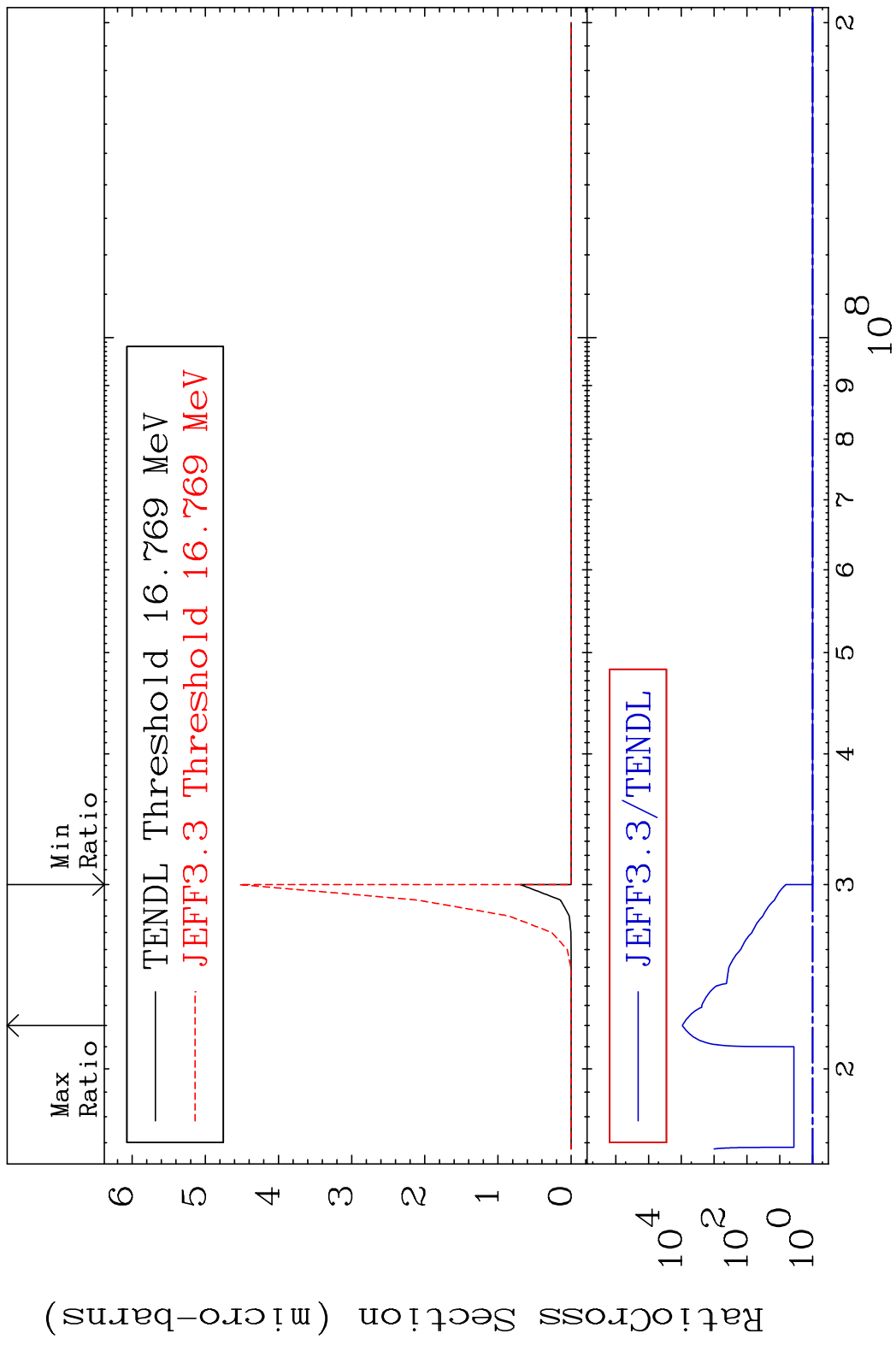


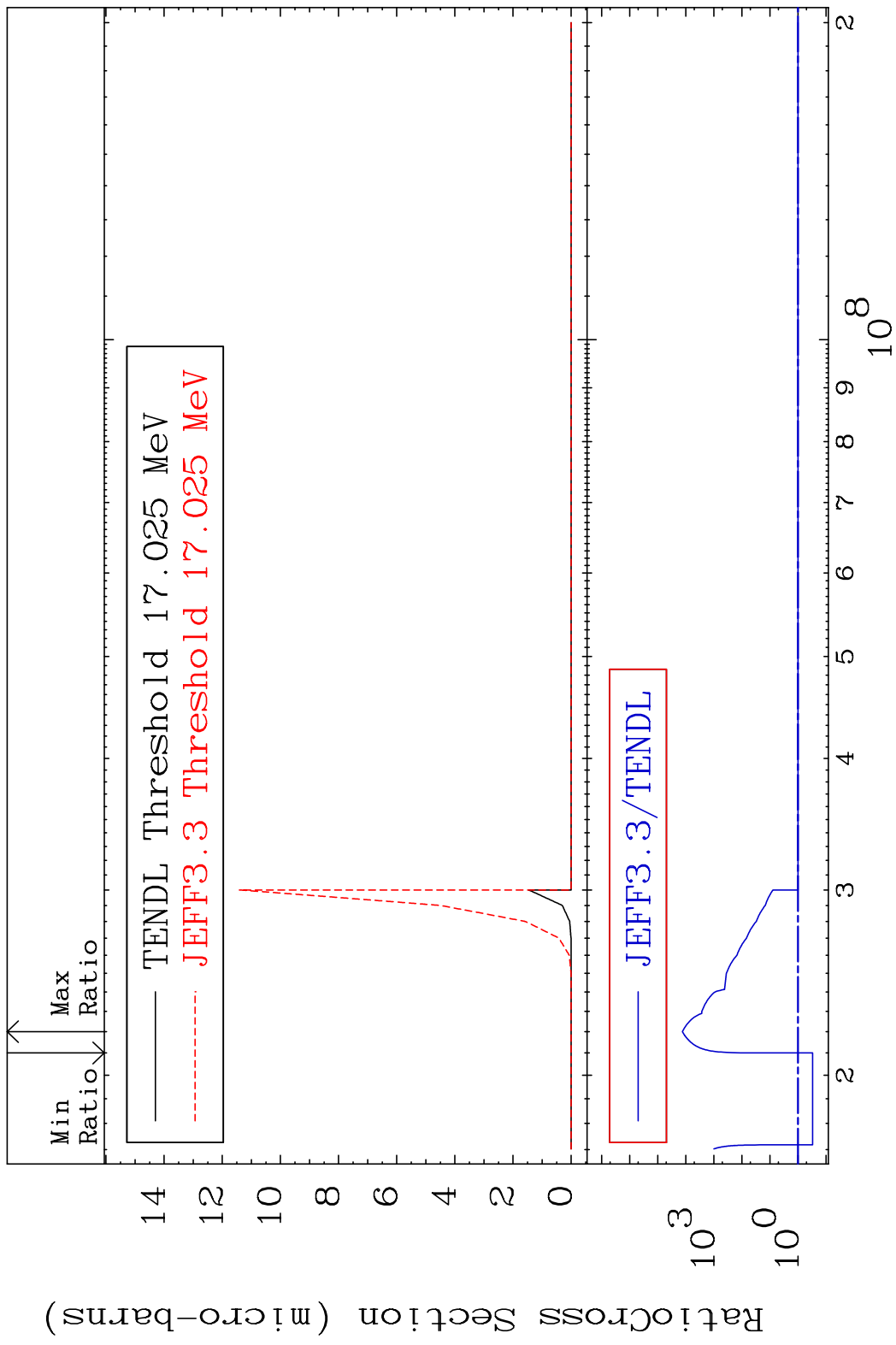


MAT 6028 (n, 3n):60-Nd-141m2 60-Nd-143
 Radionuclide Production Cross Section 478.7 %

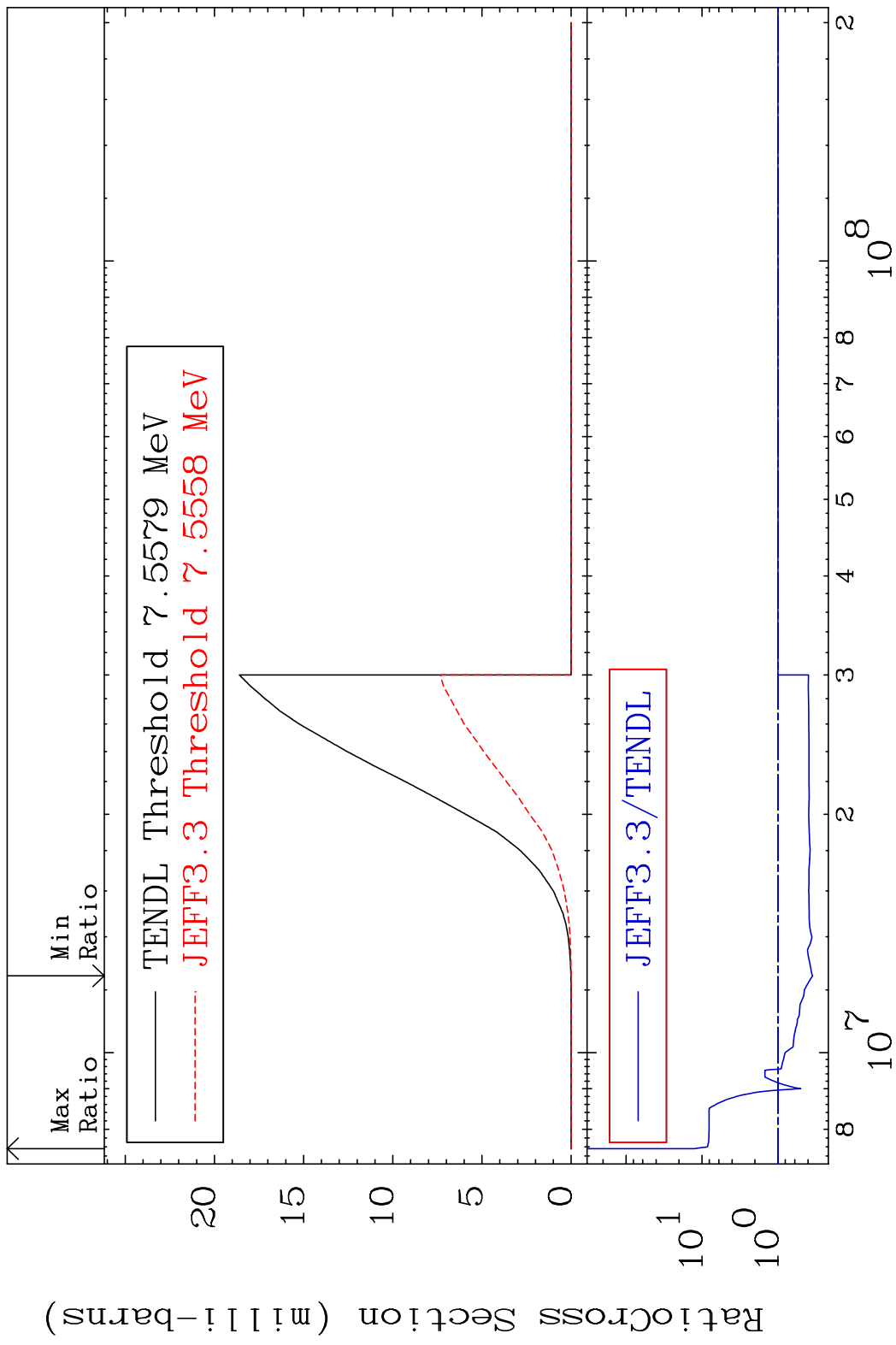


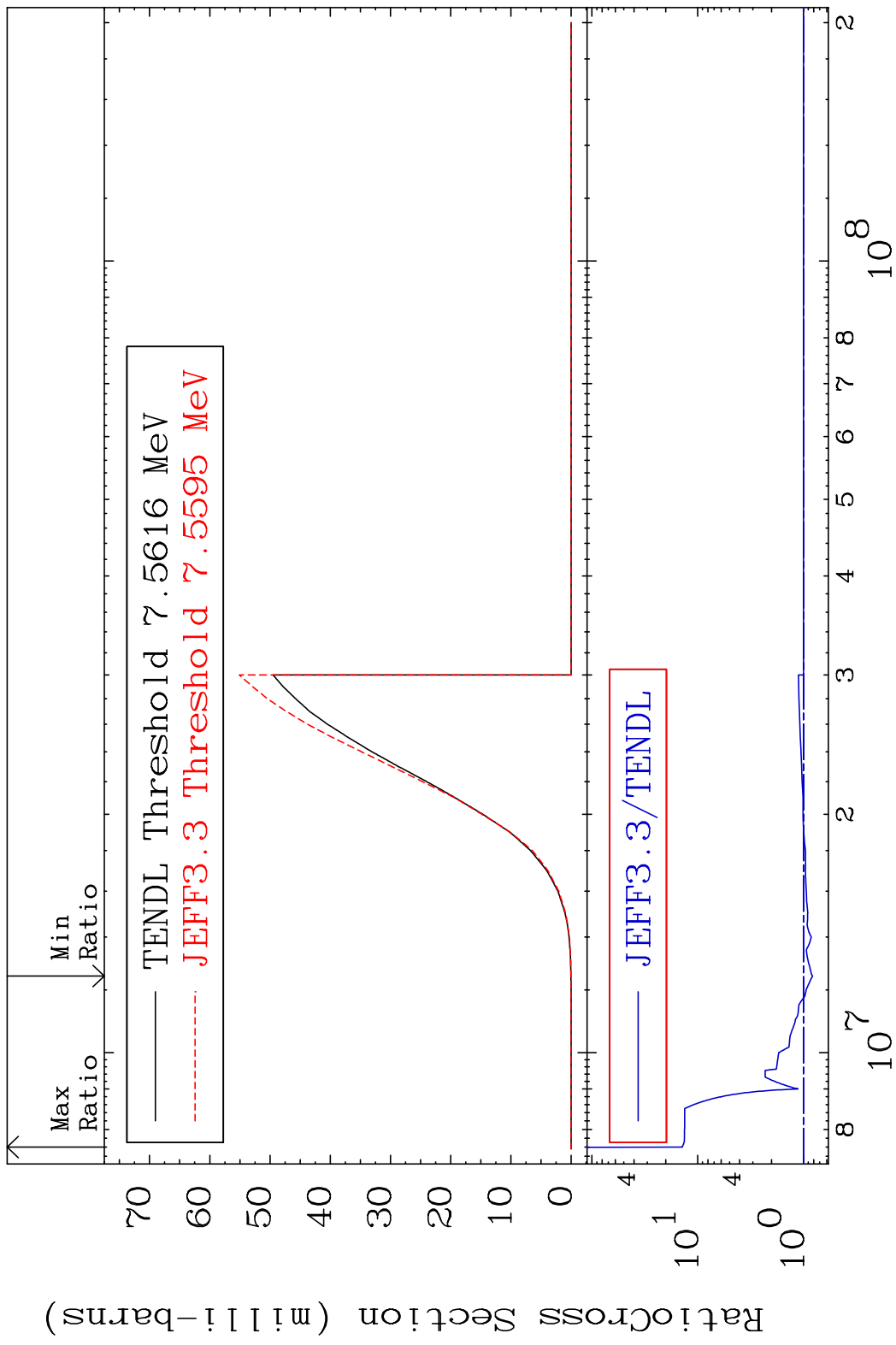
80 Incident Energy (eV) 60-Nd-143



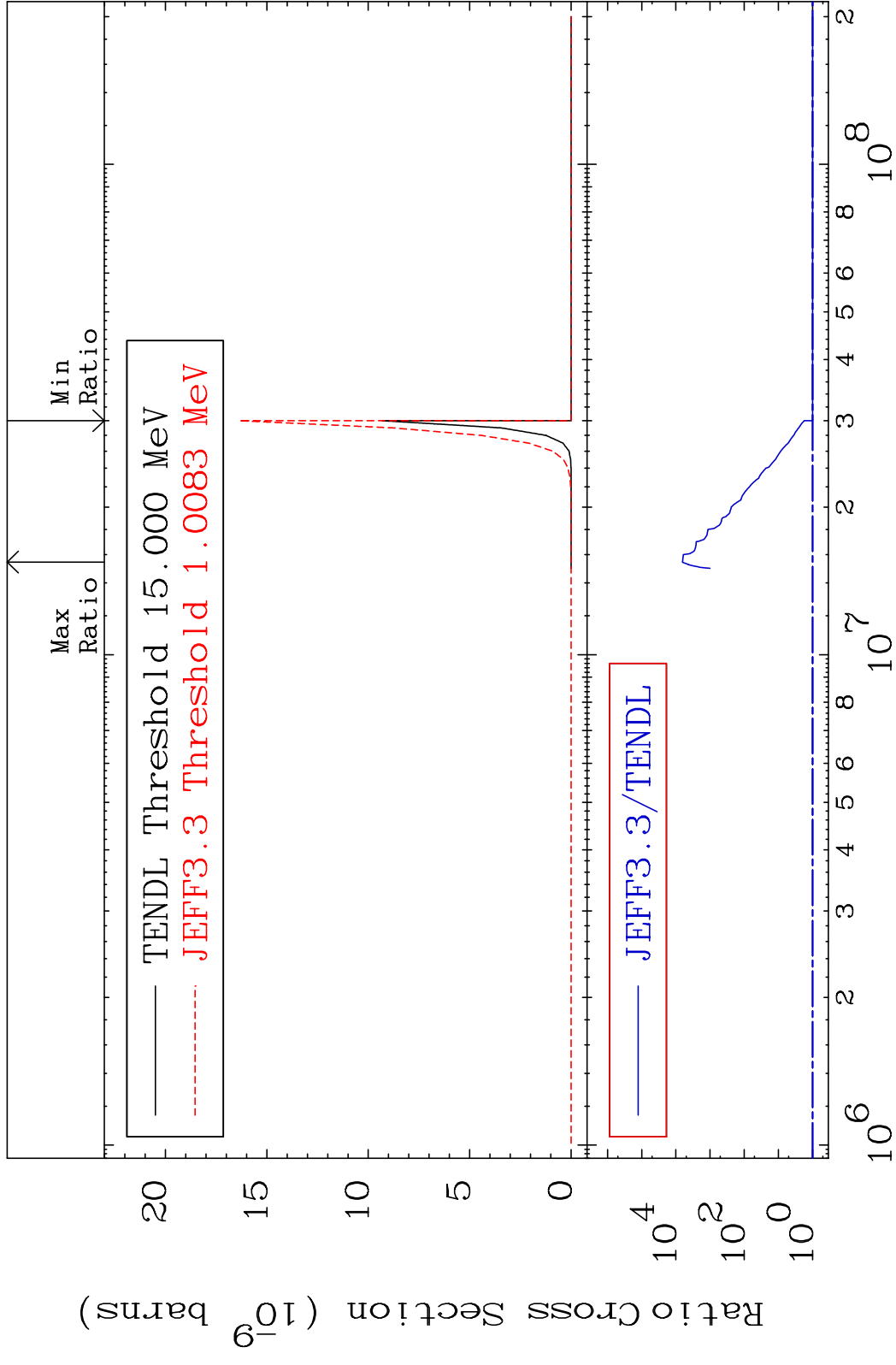


MAT 6028 (n, n') p:59-Pr-142g 60-Nd-143
 Radionuclide Production Cross Section 1710. %

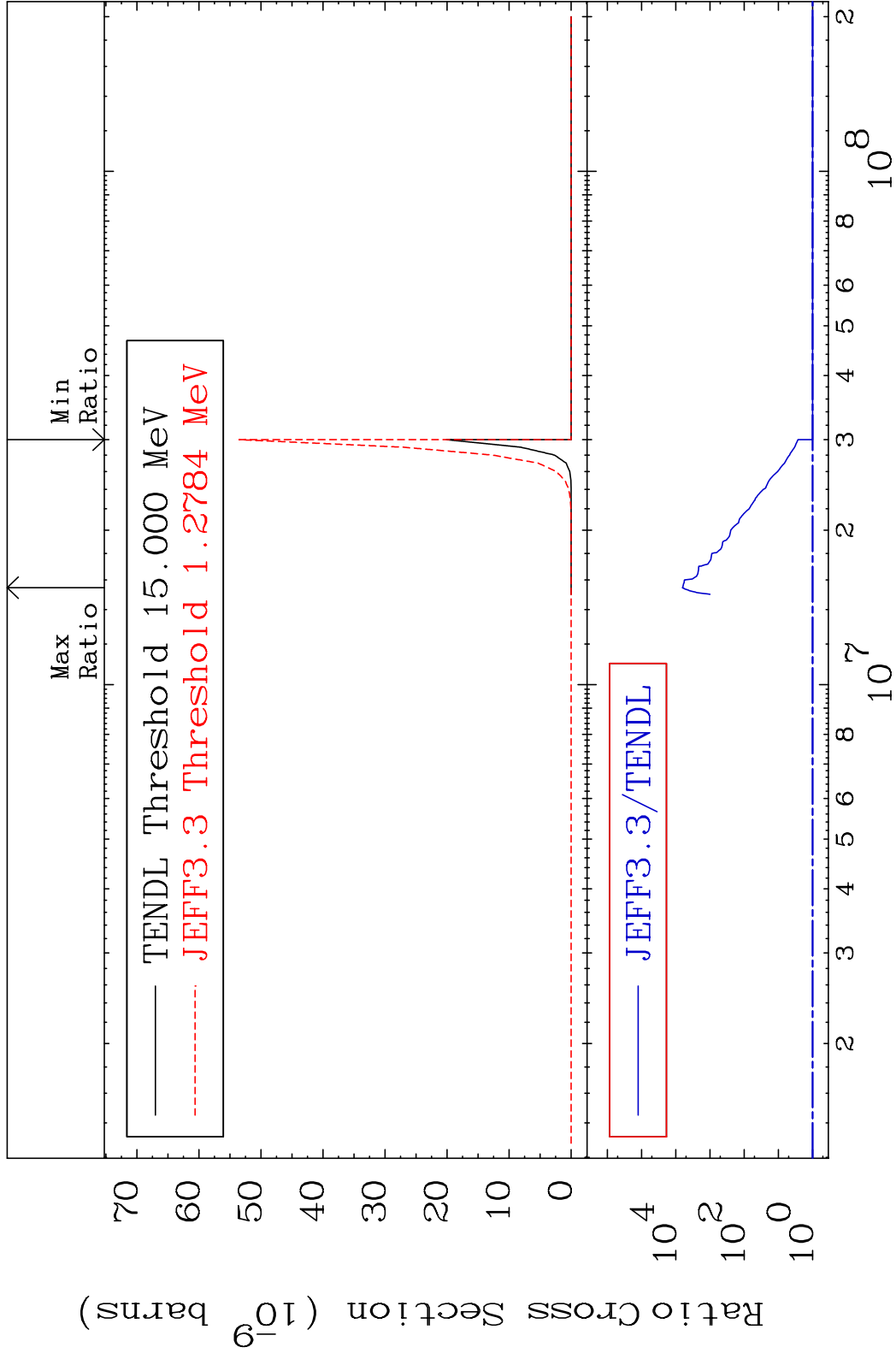




MAT 6028 (n, n') 2α:56-Ba-135g 60-Nd-143
 Radionuclide Production Cross Section, %



85 Incident Energy (eV) 60-Nd-143



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

