

Program Complot
(Version 2018-1)

by

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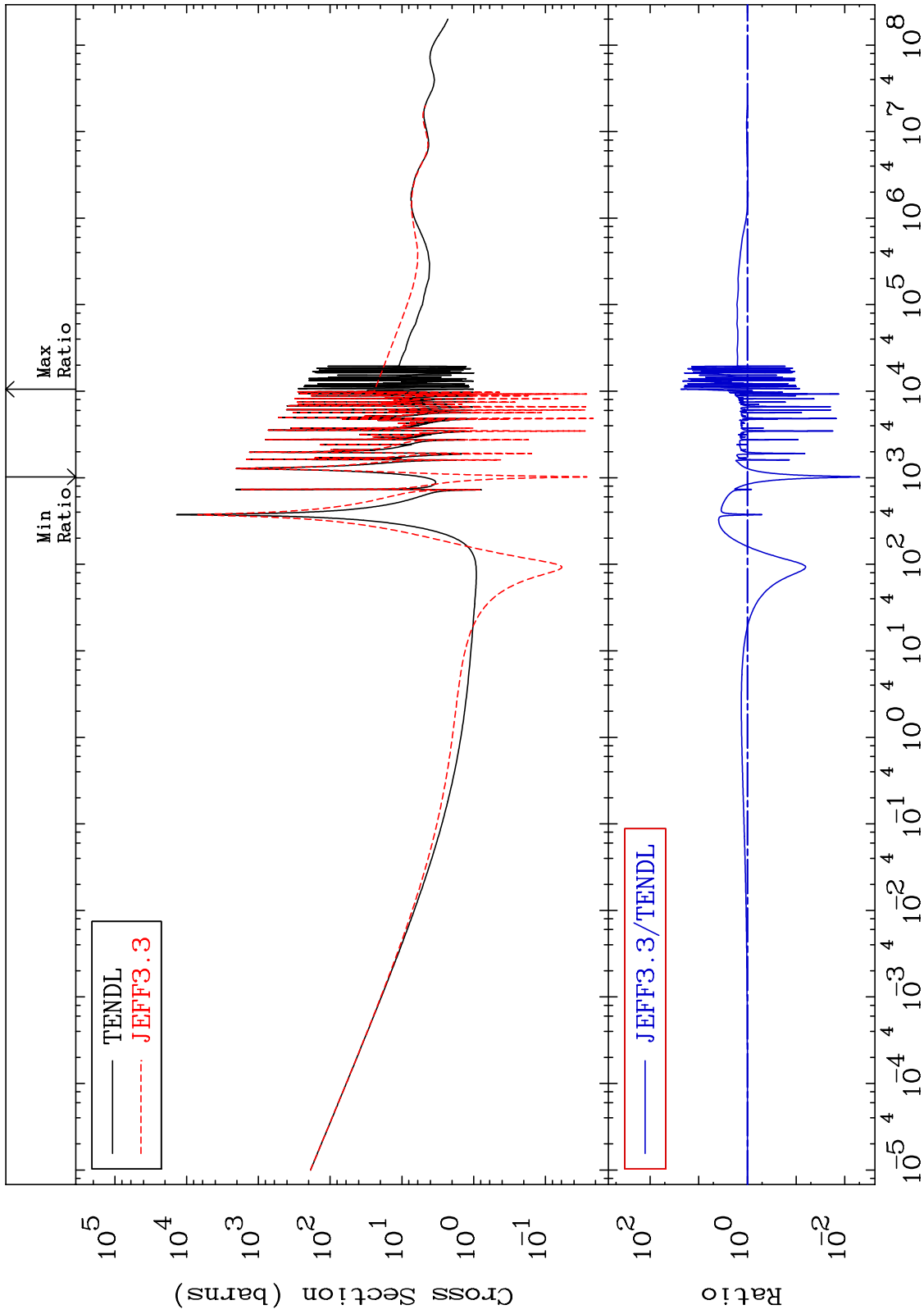
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6031

Total
Cross Section

60-Nd-144
-99.50 To 2237. %



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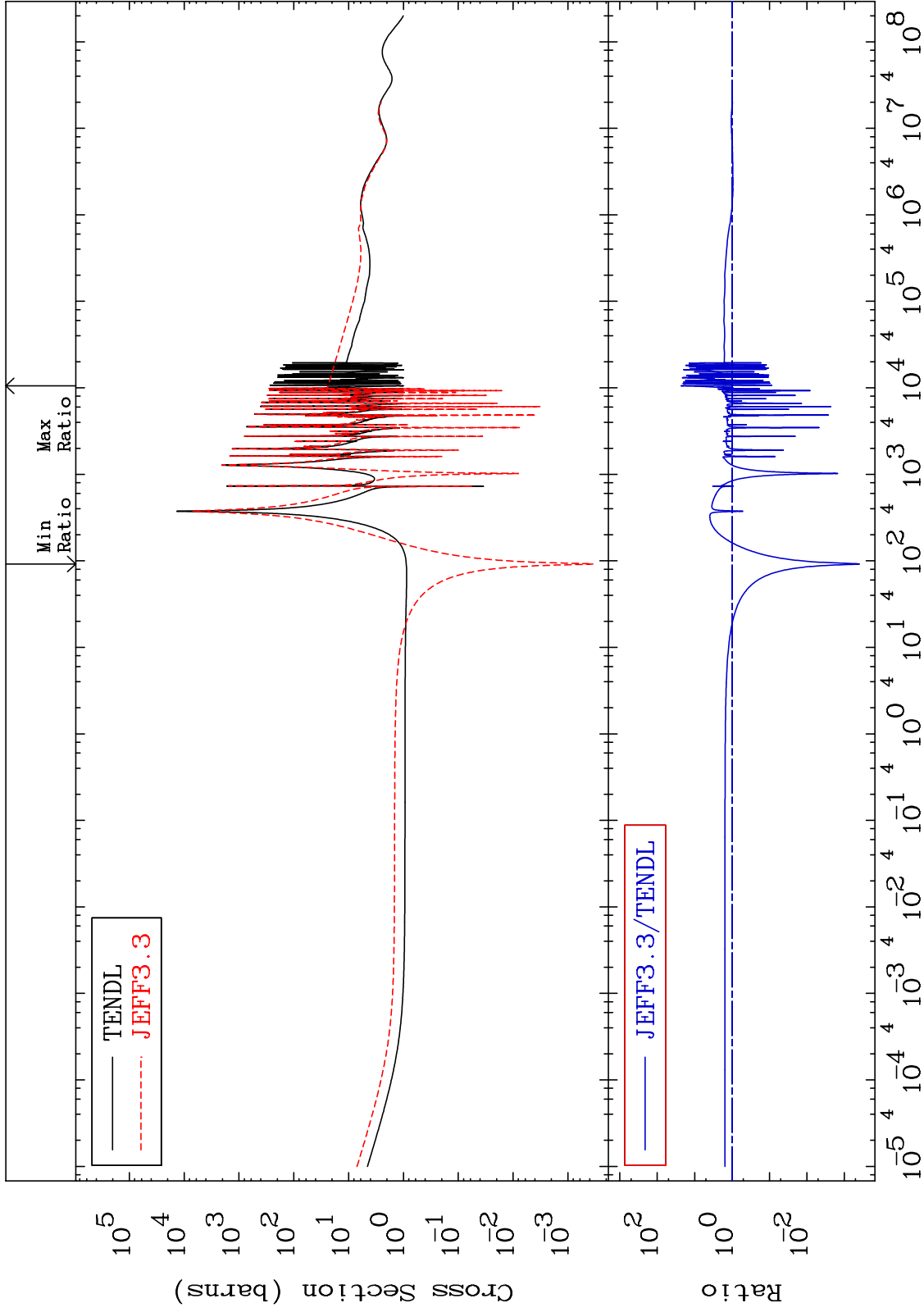
Incident Energy (eV)

60-Nd-144

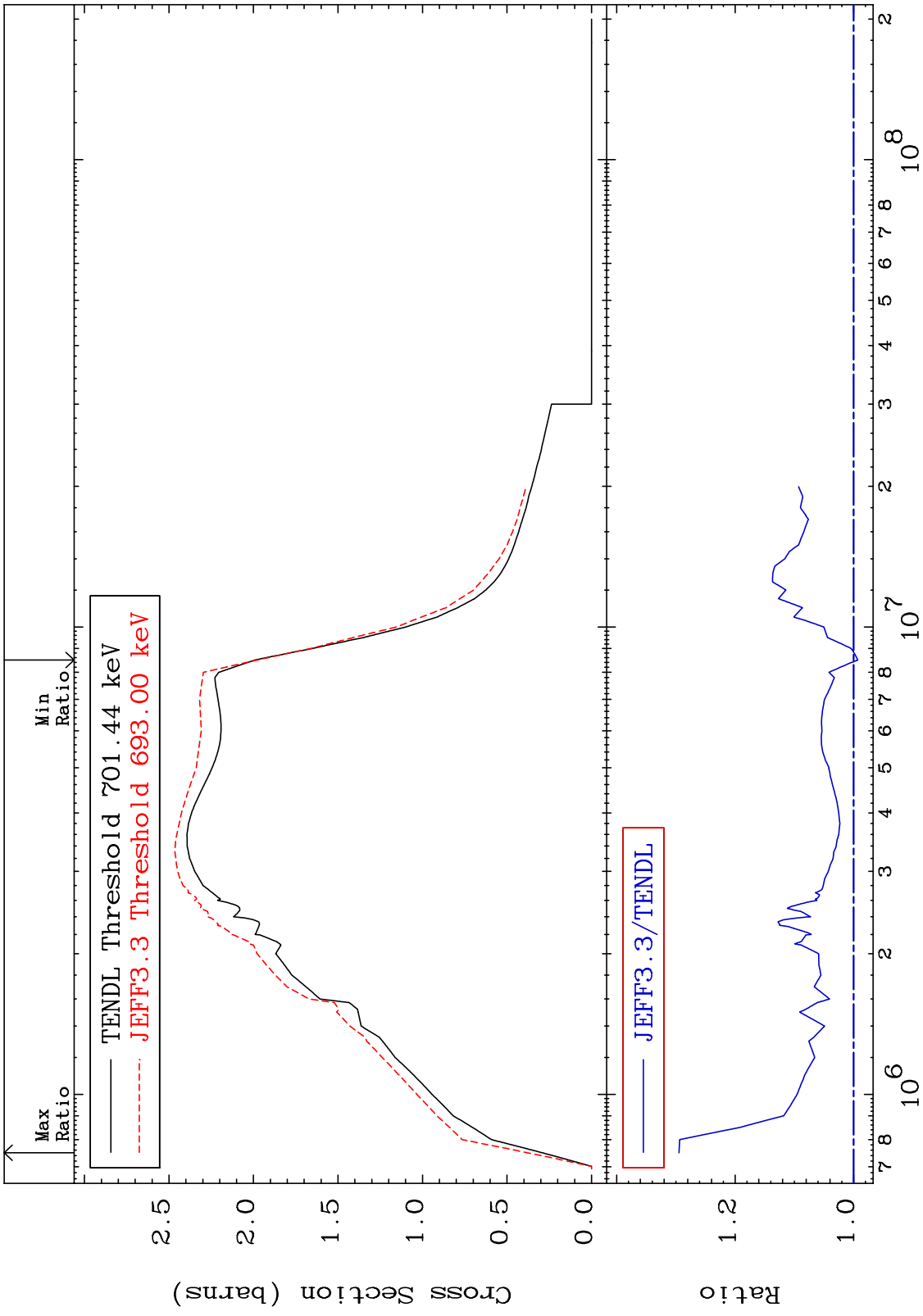
MAT 6031

Elastic
Cross Section

60-Nd-144
-99.96 To 2242. %

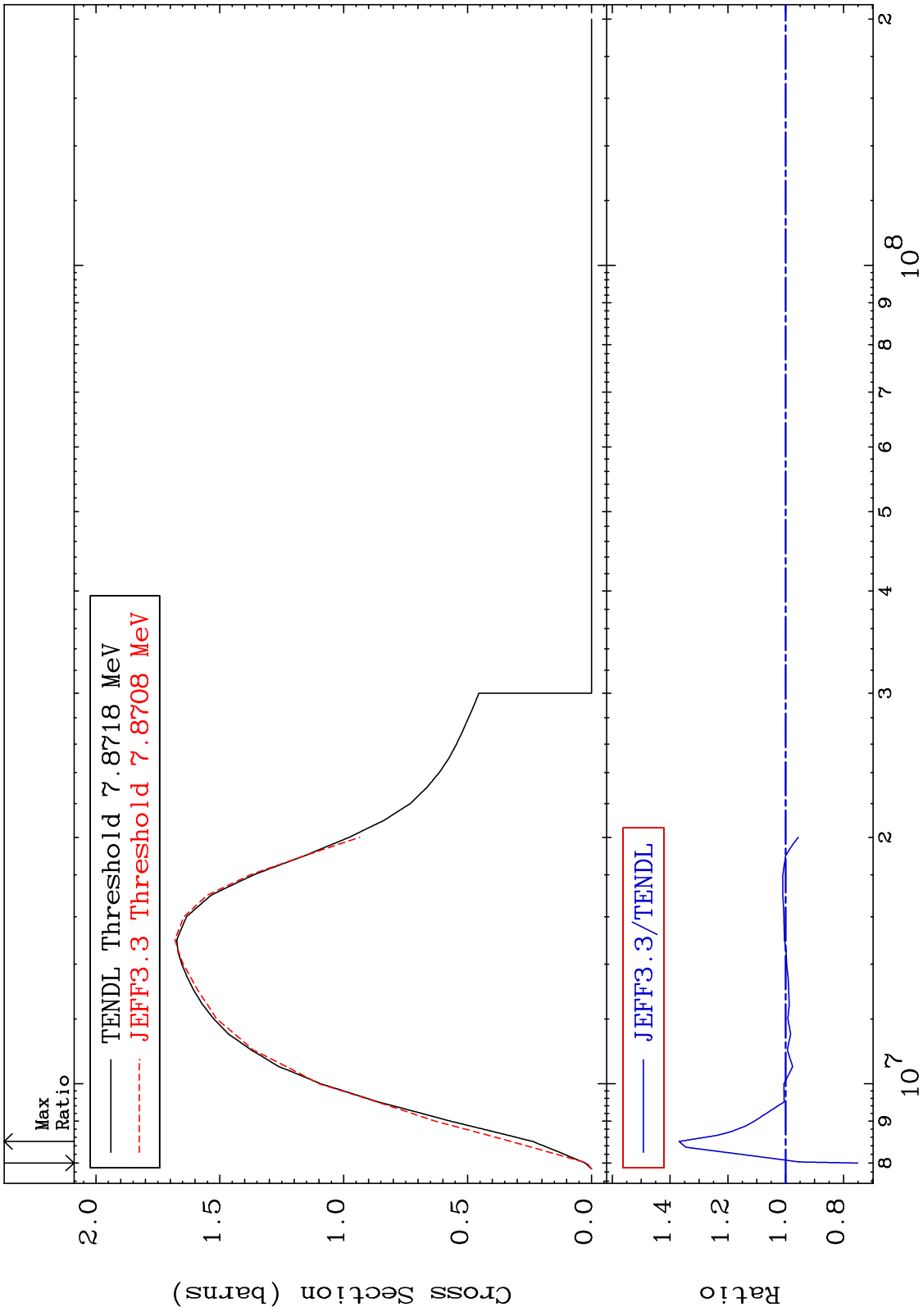


MAT 6031 Inelastic Cross Section 60-Nd-144 -0.712 To 29.47 %



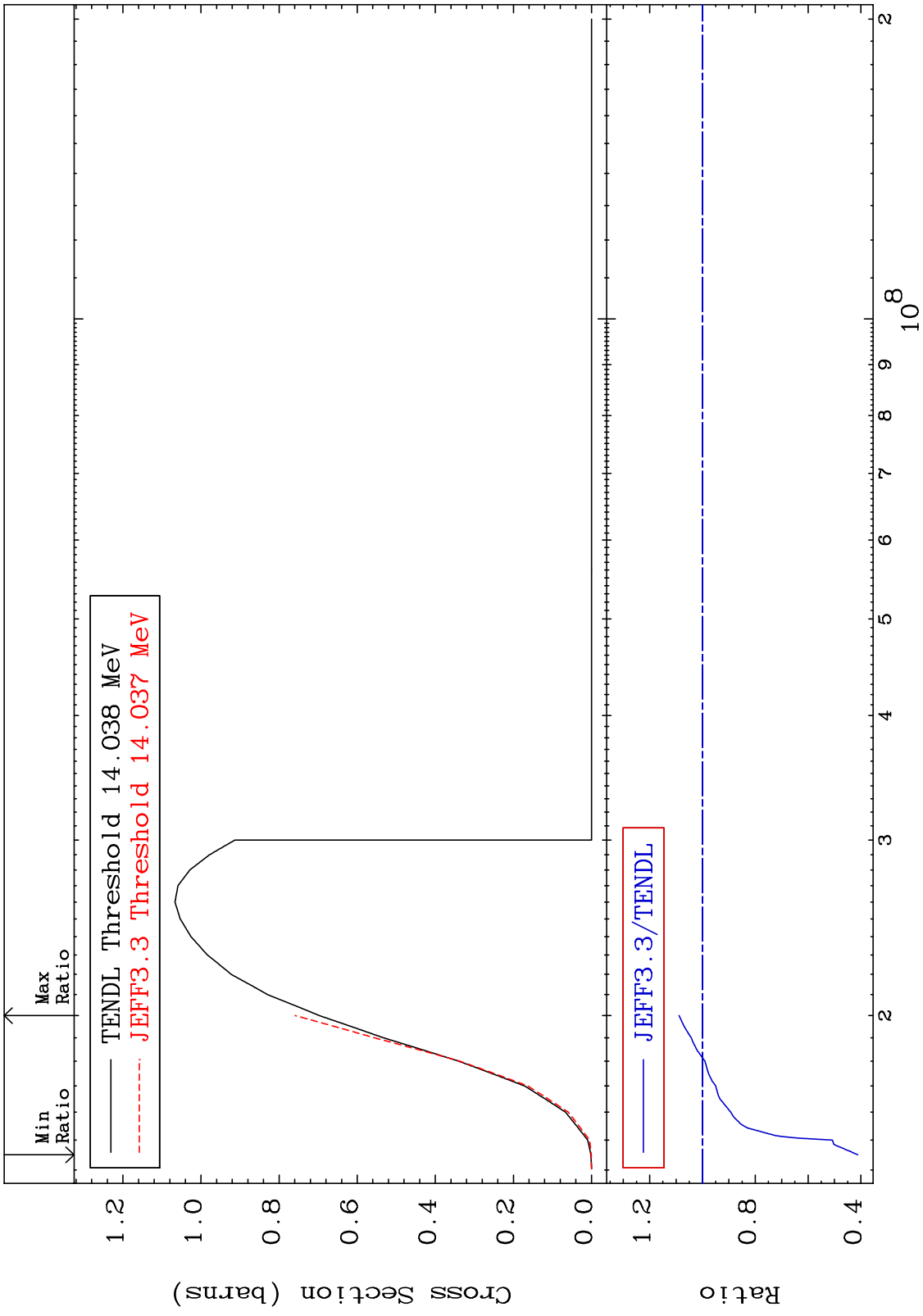
3 Incident Energy (eV) 60-Nd-144

MAT 6031 (n,2n) Cross Section 60-Nd-144 -24.95 To 36.91 %



4 Incident Energy (eV) 60-Nd-144

MAT 6031 (n,3n) 60-Nd-144
 Cross Section -58.85 To 8.886 %



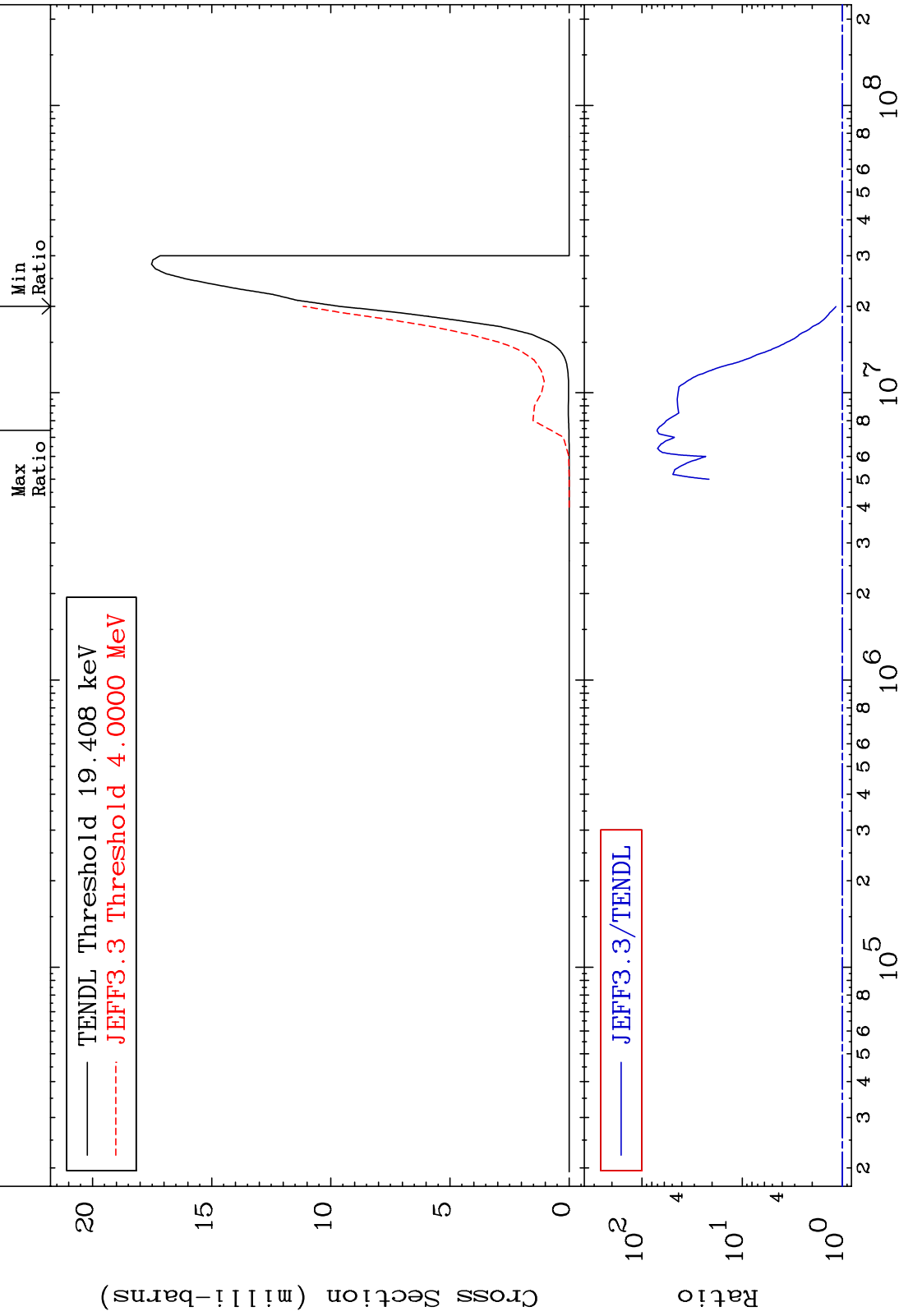
MAT 6031

$(n, n') \alpha$

$^{60}\text{Nd-144}$

Cross Section

15.54 To 7001. %



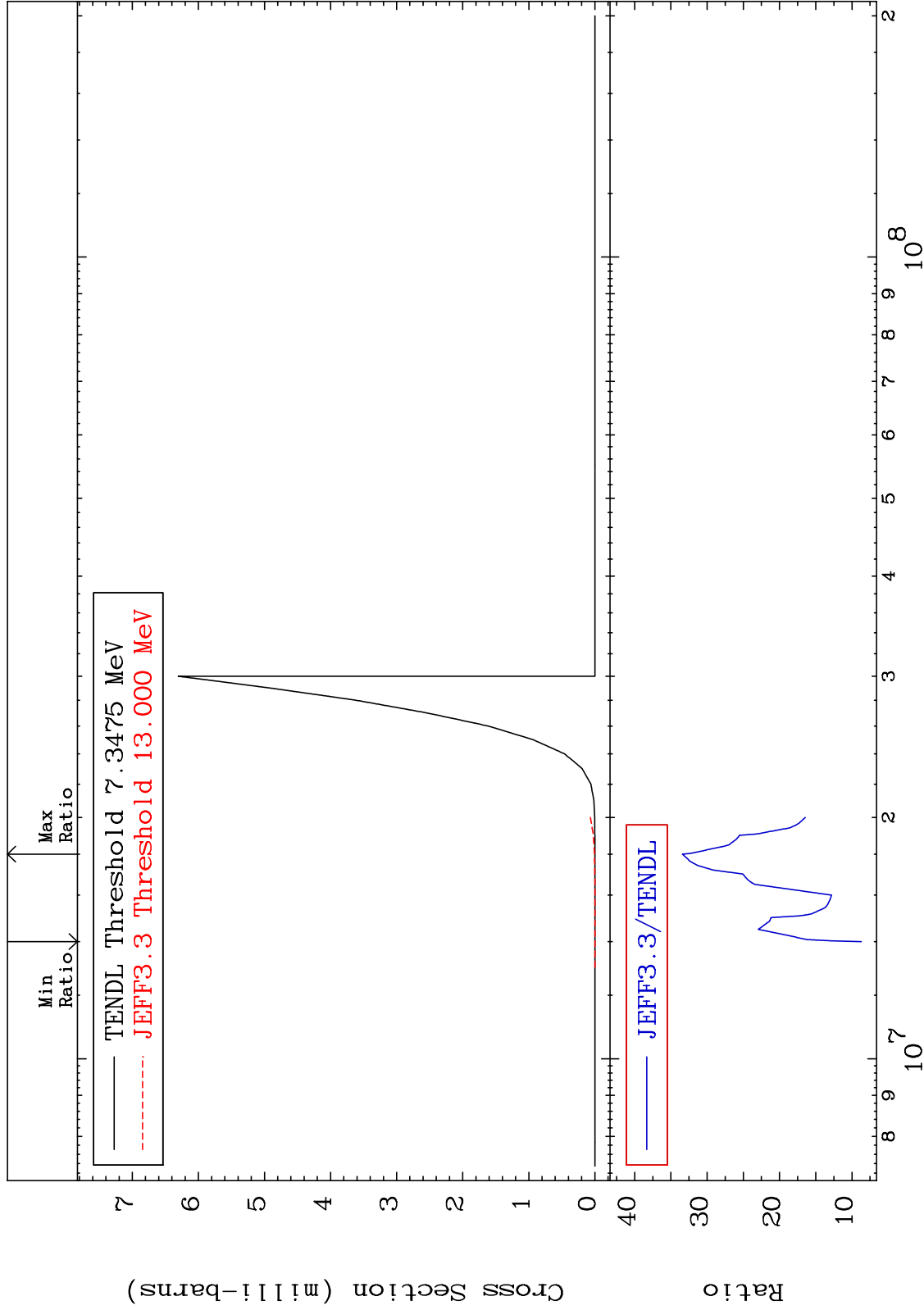
MAT 6031

(n,2n) α

60-Nd-144

771.0 To 3241. %

Cross Section

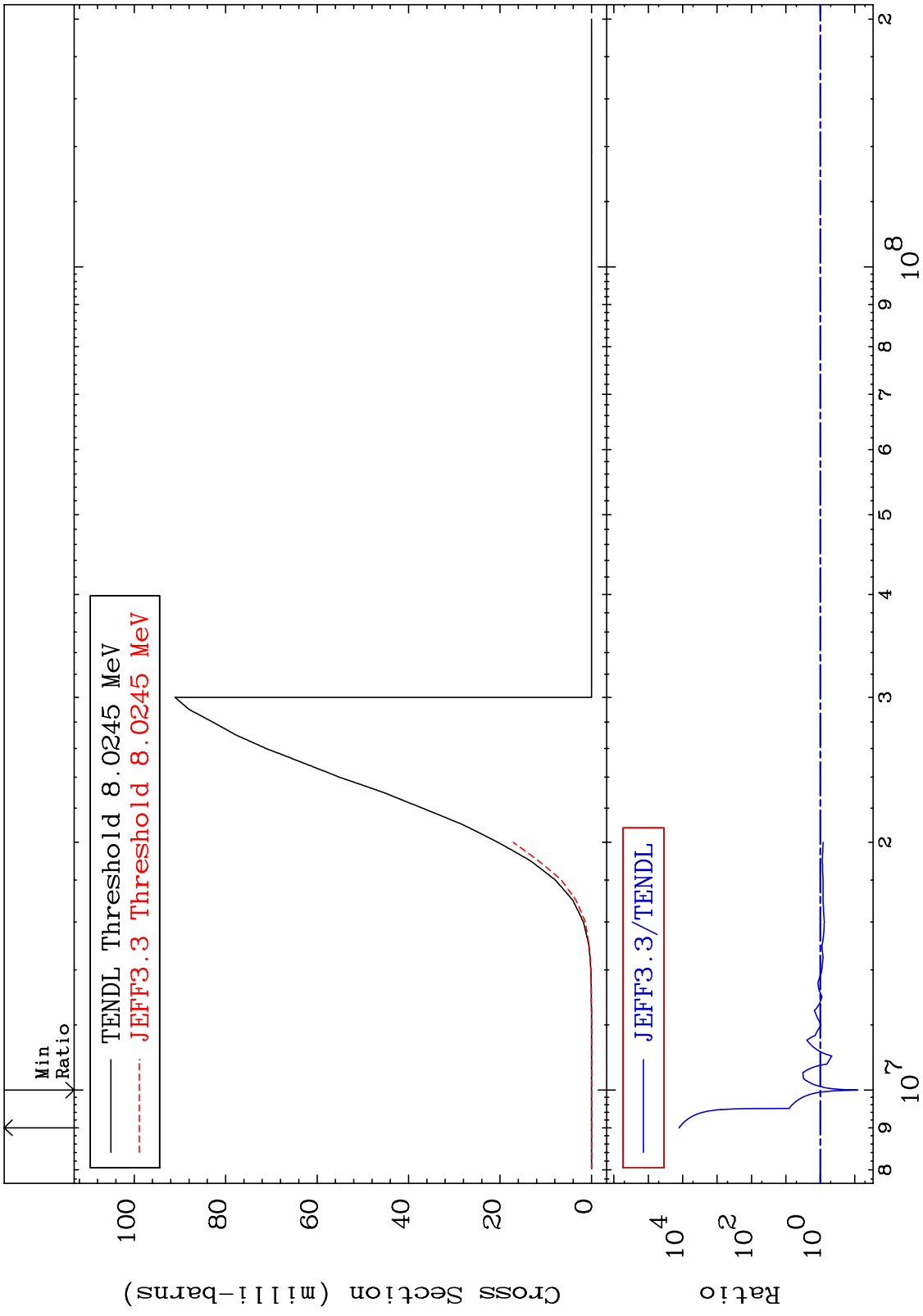


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Incident Energy (eV)

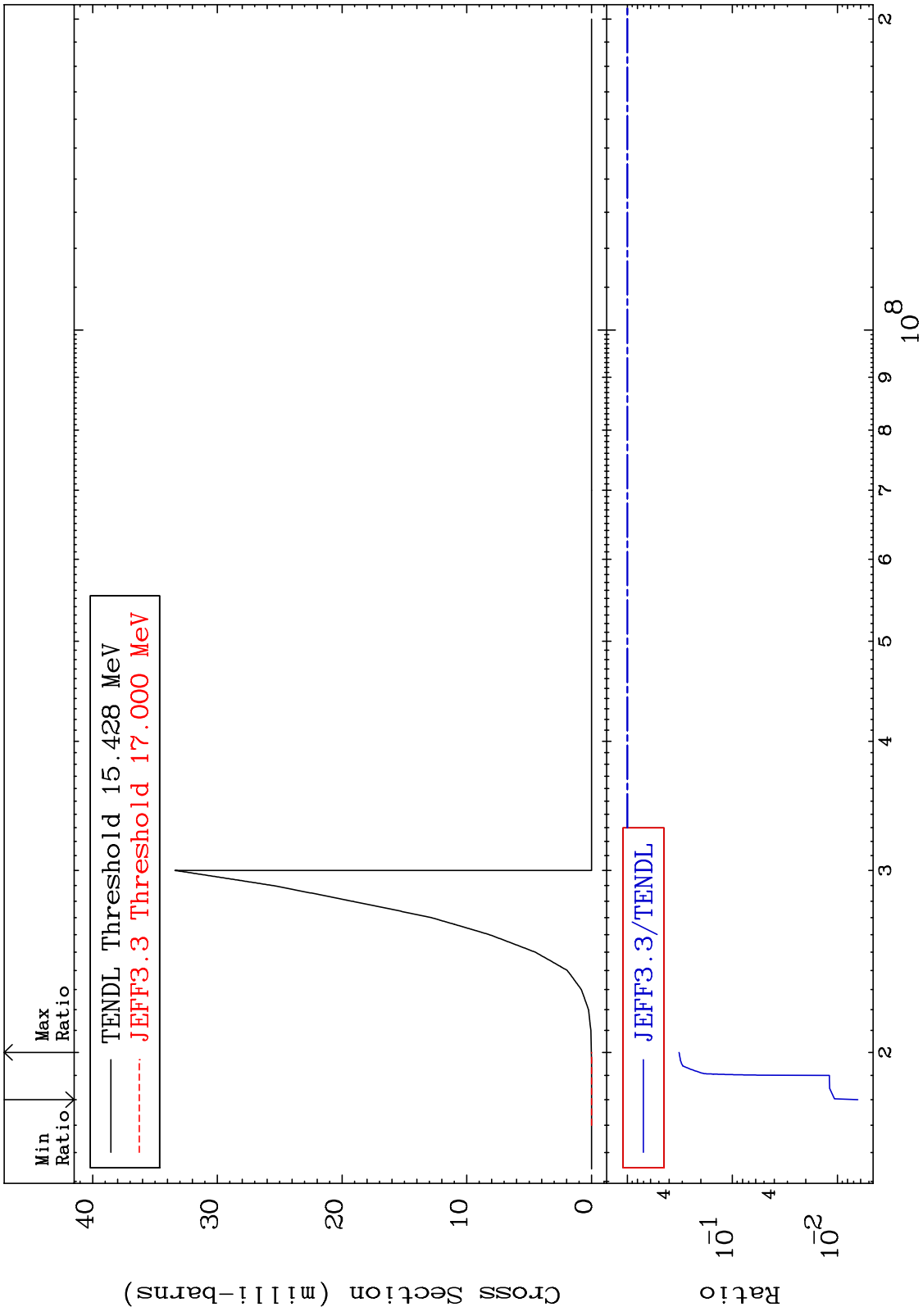
60-Nd-144

MAT 6031 (n,n') p 60-Nd-144
Cross Section -91.90 To 9999. %

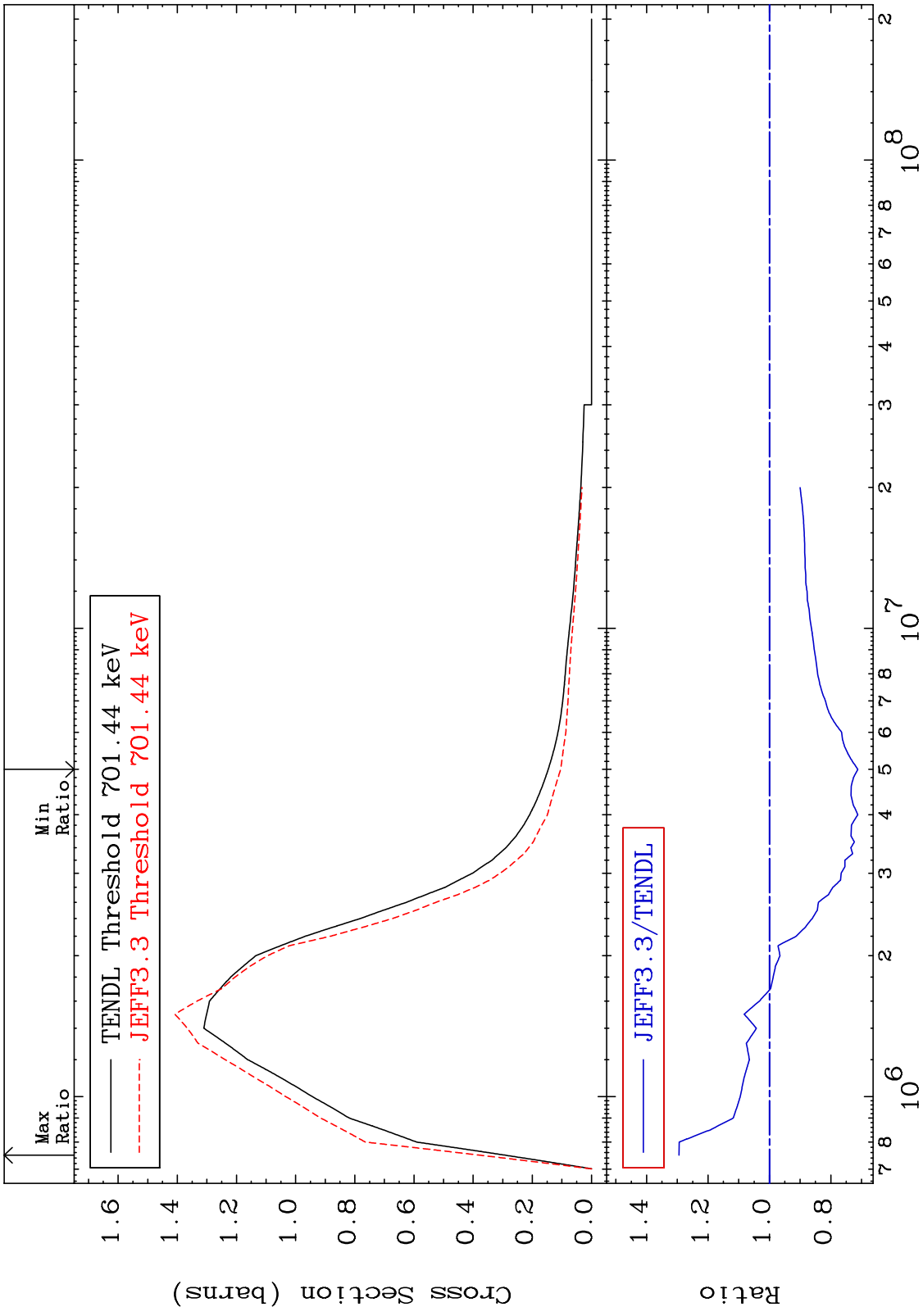


8 8 9 10⁷ 10⁸ 2 60-Nd-144

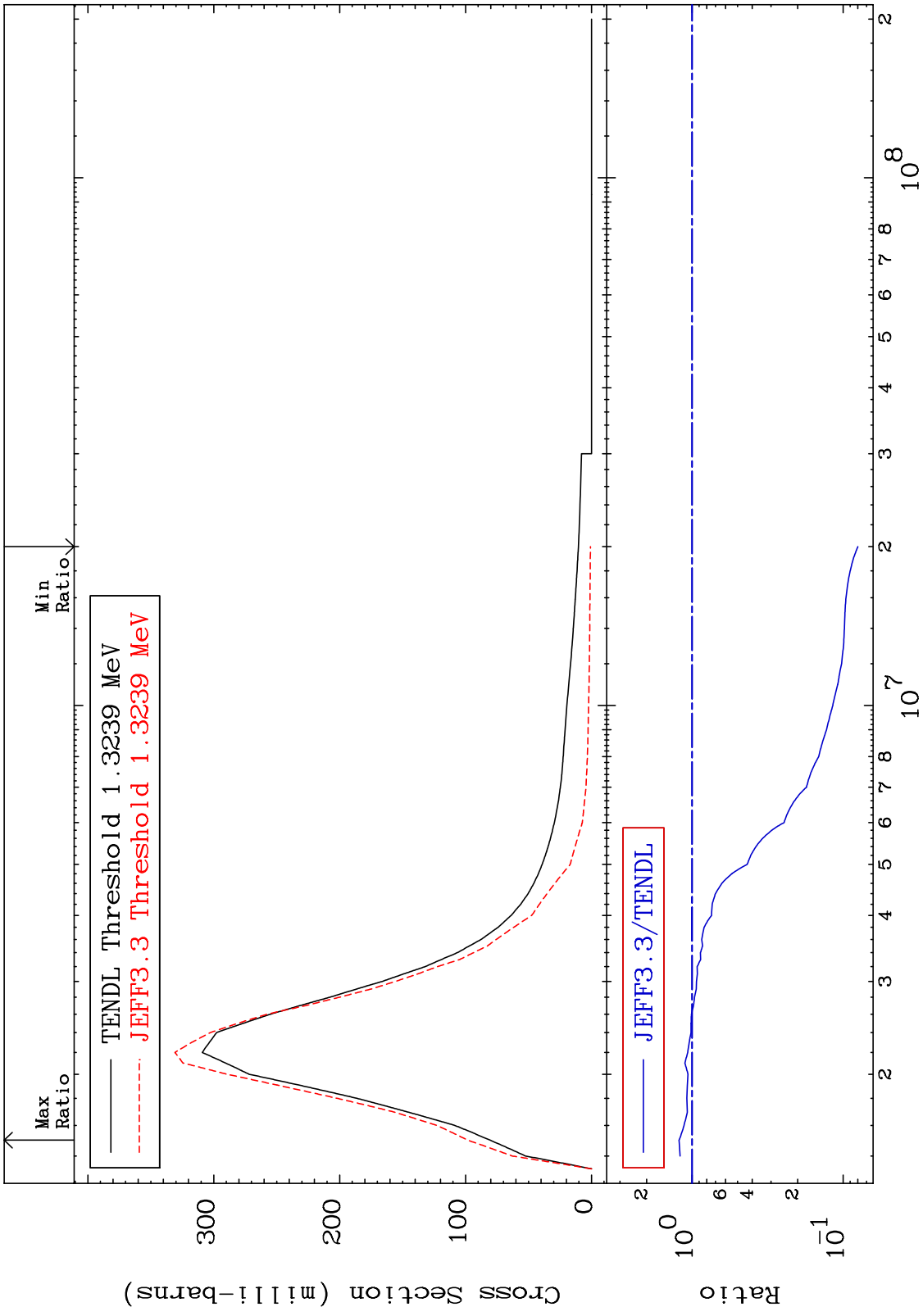
MAT 6031 60-Nd-144
 (n,2n) p -99.36 To -67.81%
 Cross Section



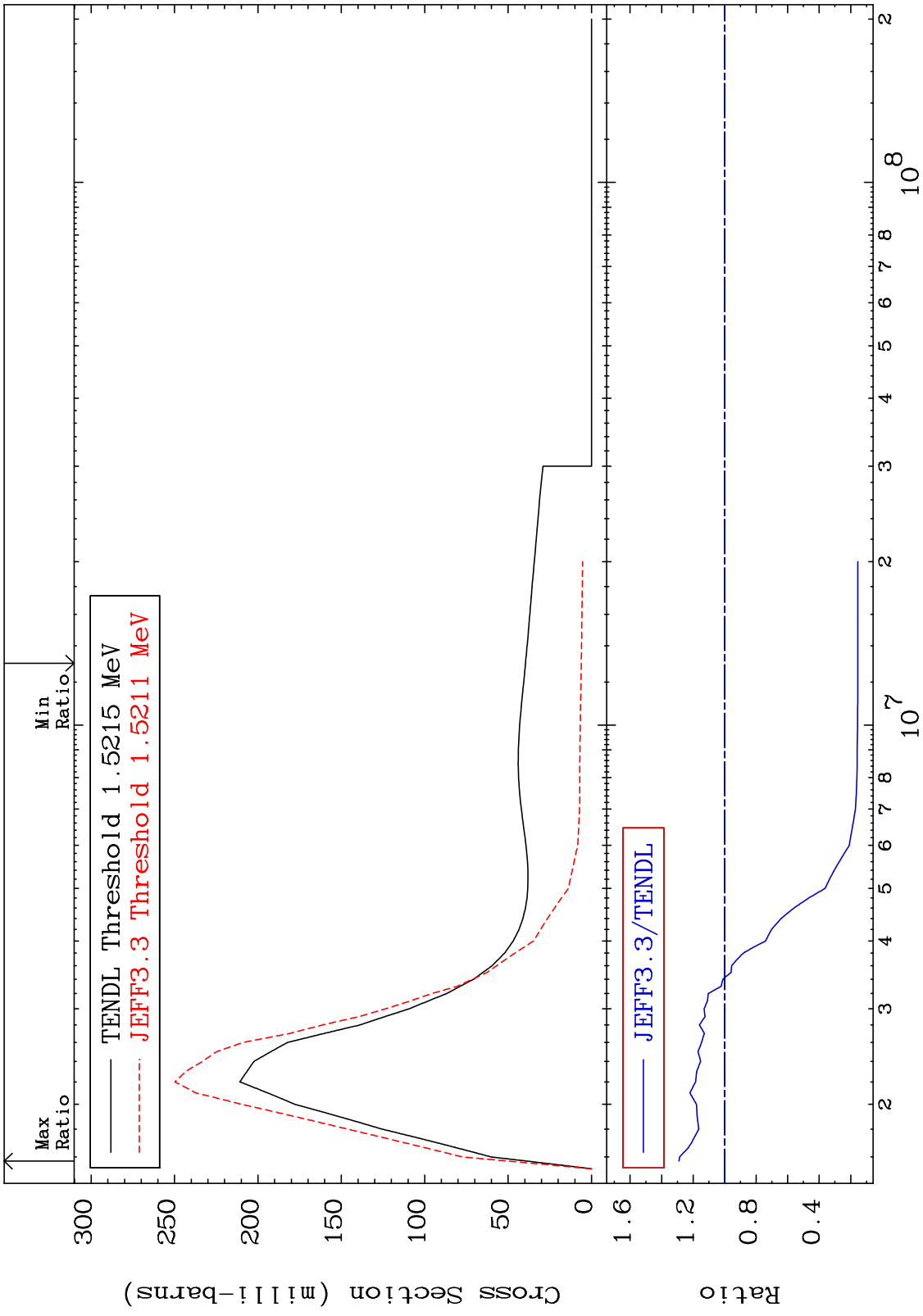
MAT 6031 MT= 51 (n,n') Level Cross Section 60-Nd-144
-28.79 To 29.43 %



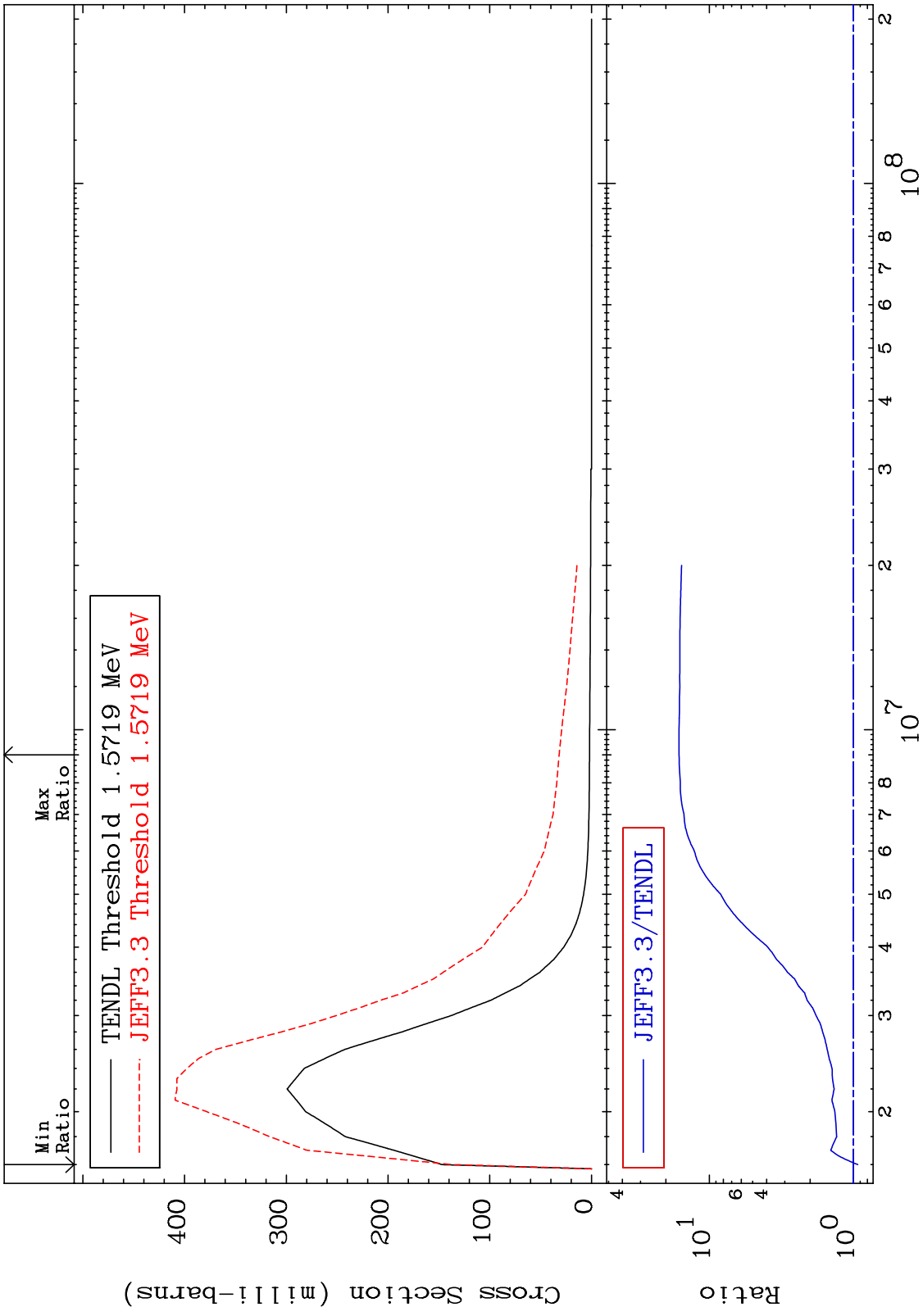
MAT 6031 MT= 52 (n, n') Level Cross Section 60-Nd-144
 -92.01 To 22.03 %



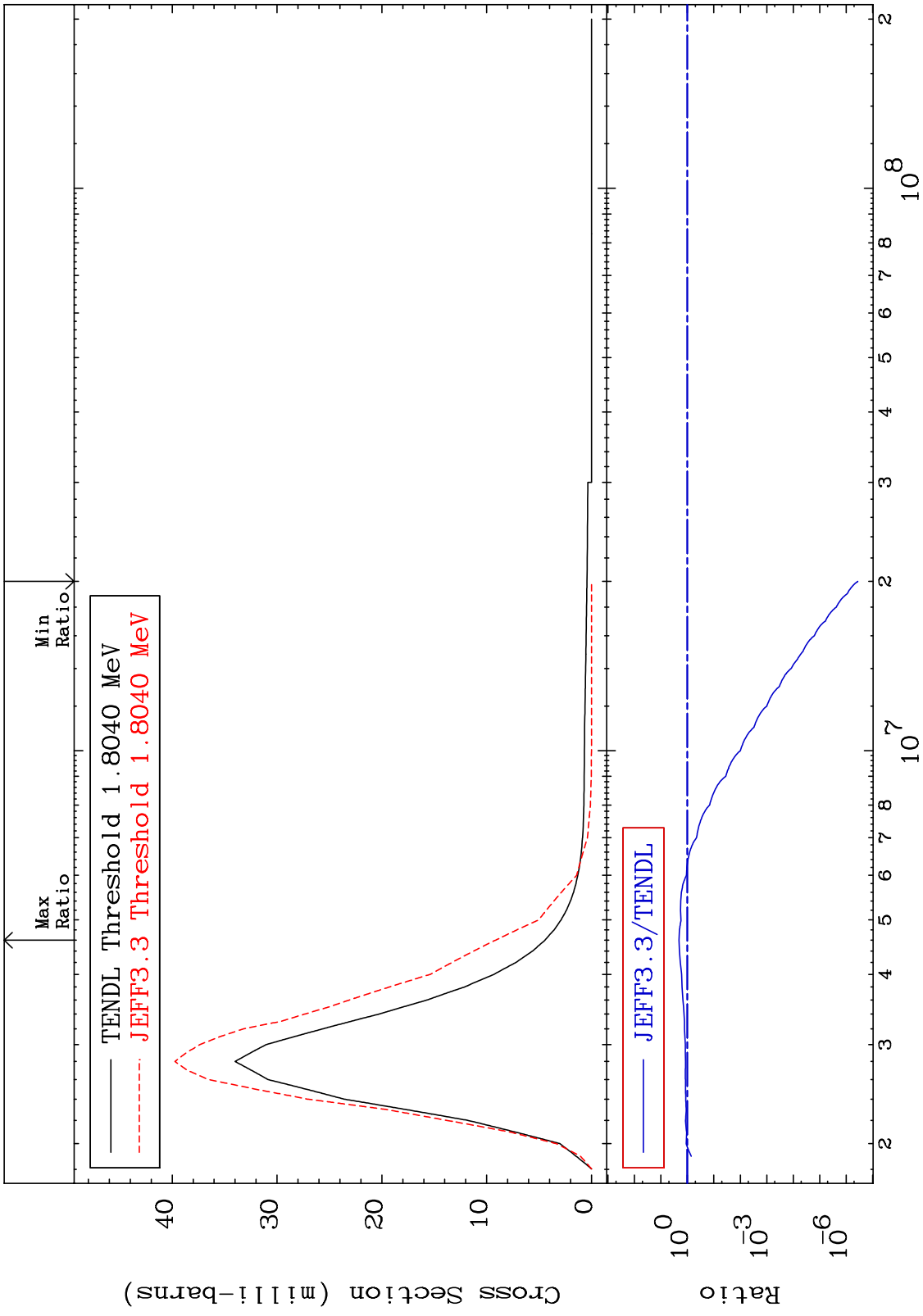
MAT 6031 MT= 53 (n,n') Level Cross Section 60-Nd-144
 -84.53 To 28.94 %



MAT 6031 MT= 54 (n,n') Level Cross Section 60-Nd-144
 -6.685 To 1521. %

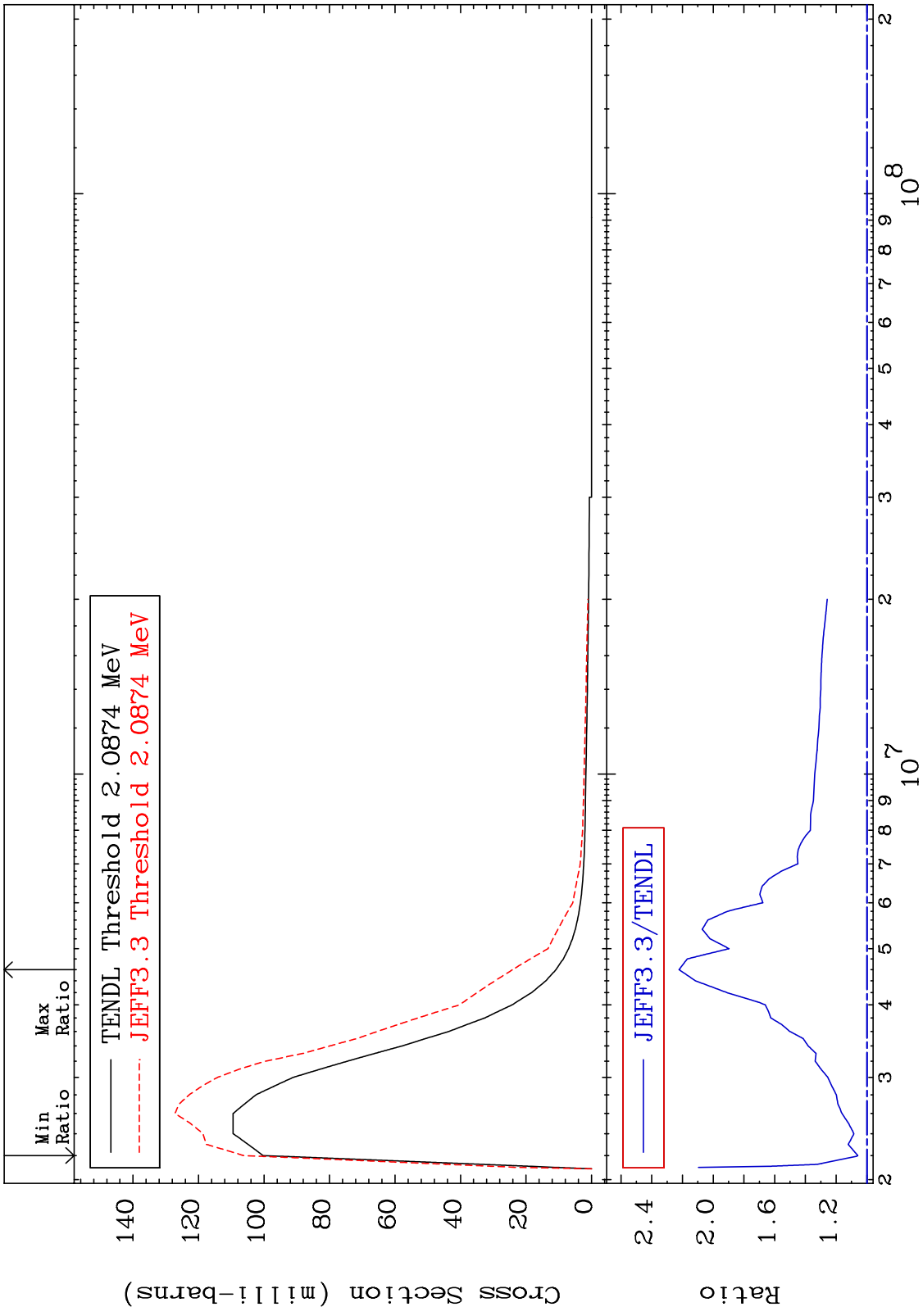


MAT 6031 MT= 55 (n,n') Level Cross Section 60-Nd-144
 -100.0 To 106.3 %

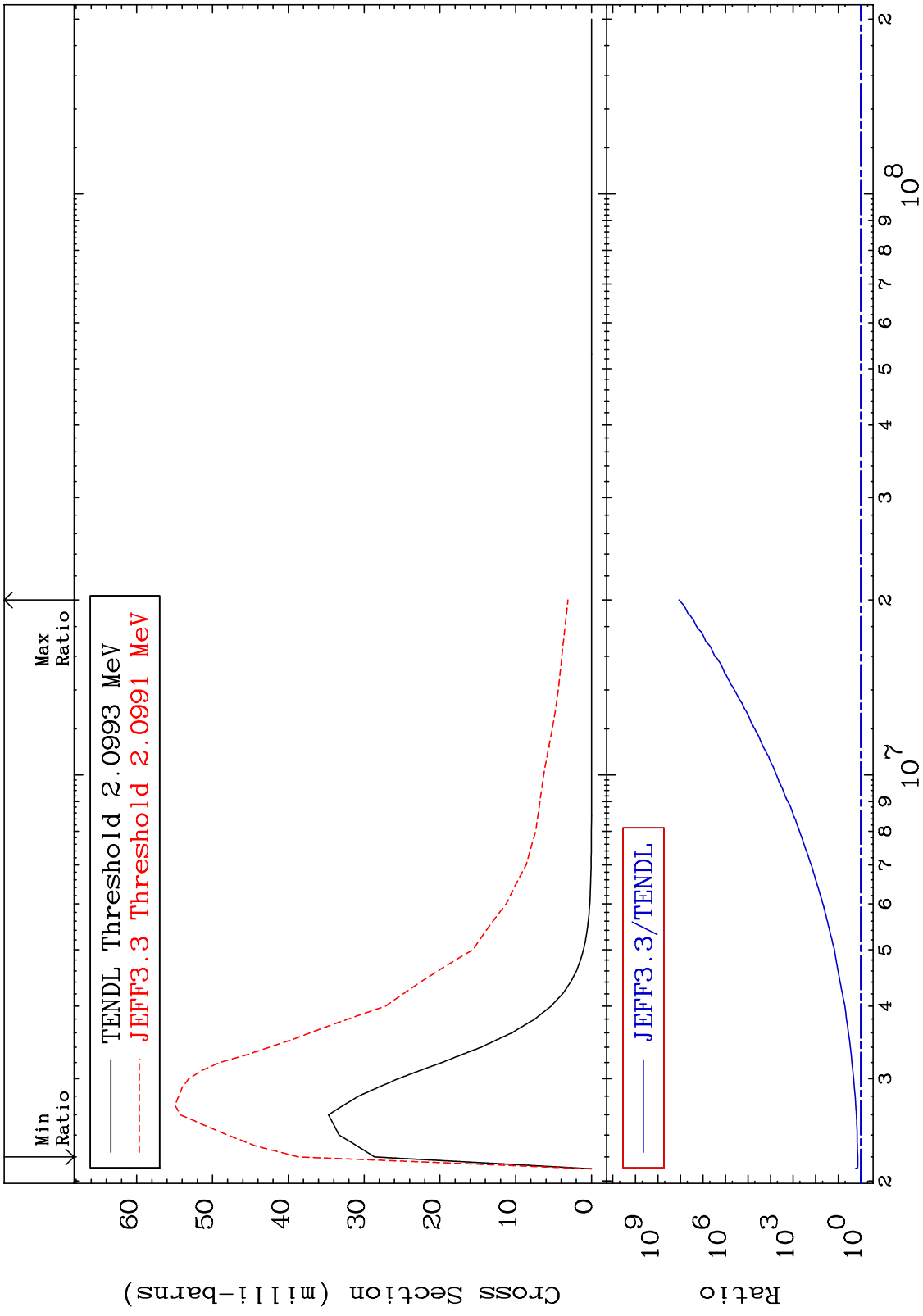


14 Incident Energy (eV) 60-Nd-144

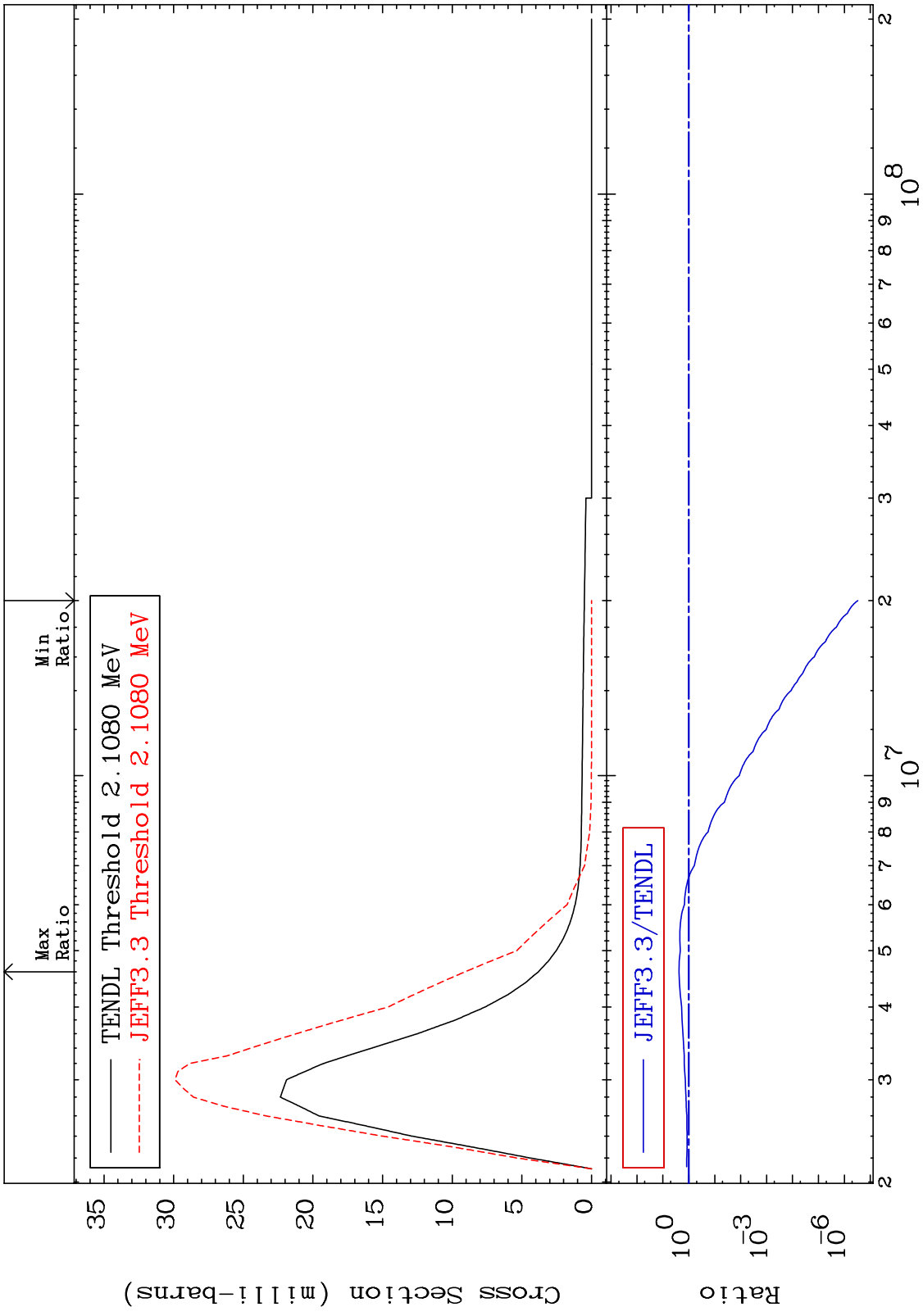
MAT 6031 MT= 56 (n,n') Level Cross Section 60-Nd-144 5.904 To 122.2 %



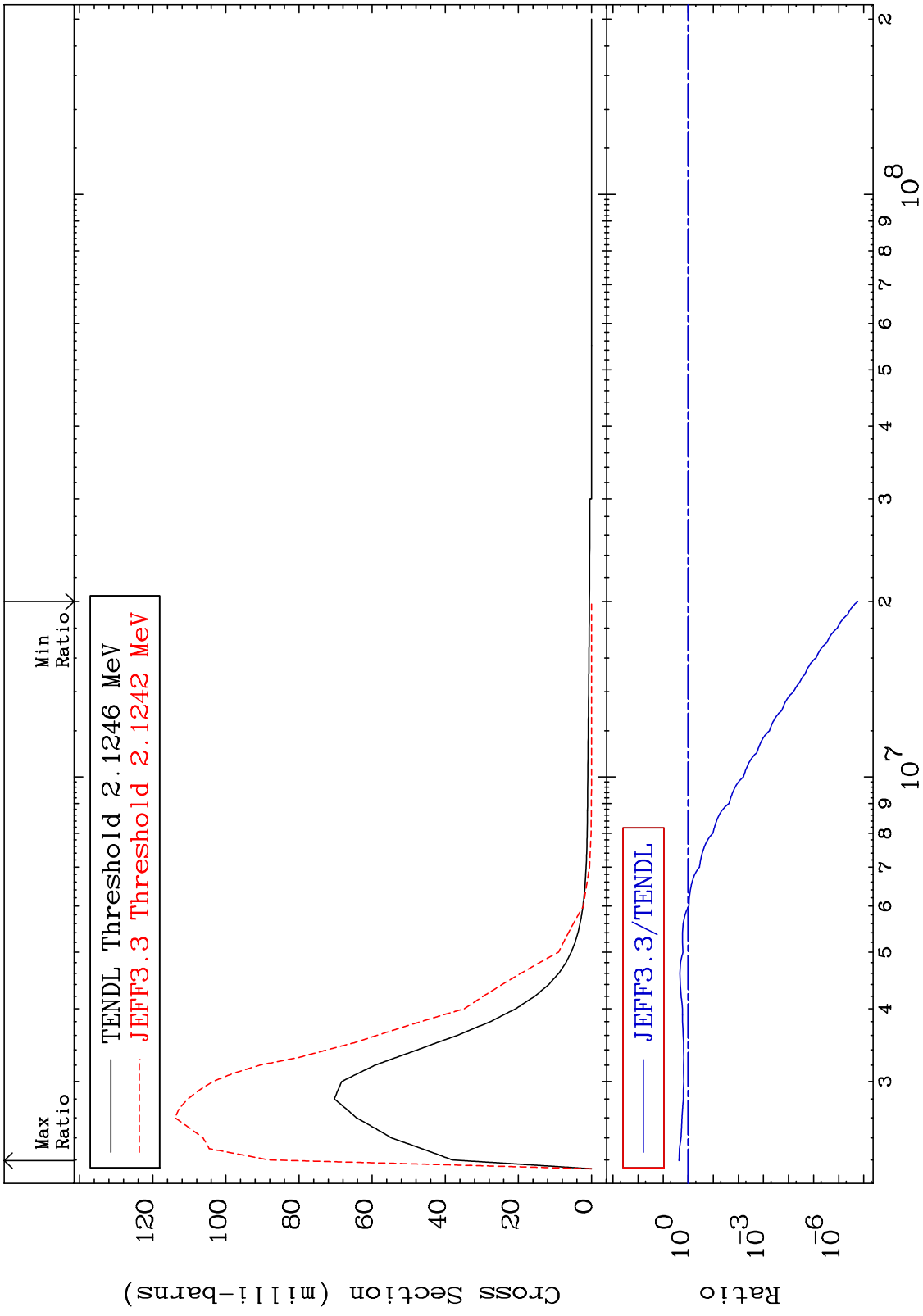
MAT 6031 MT= 57 (n,n') Level Cross Section 60-Nd-144 To 9999. %



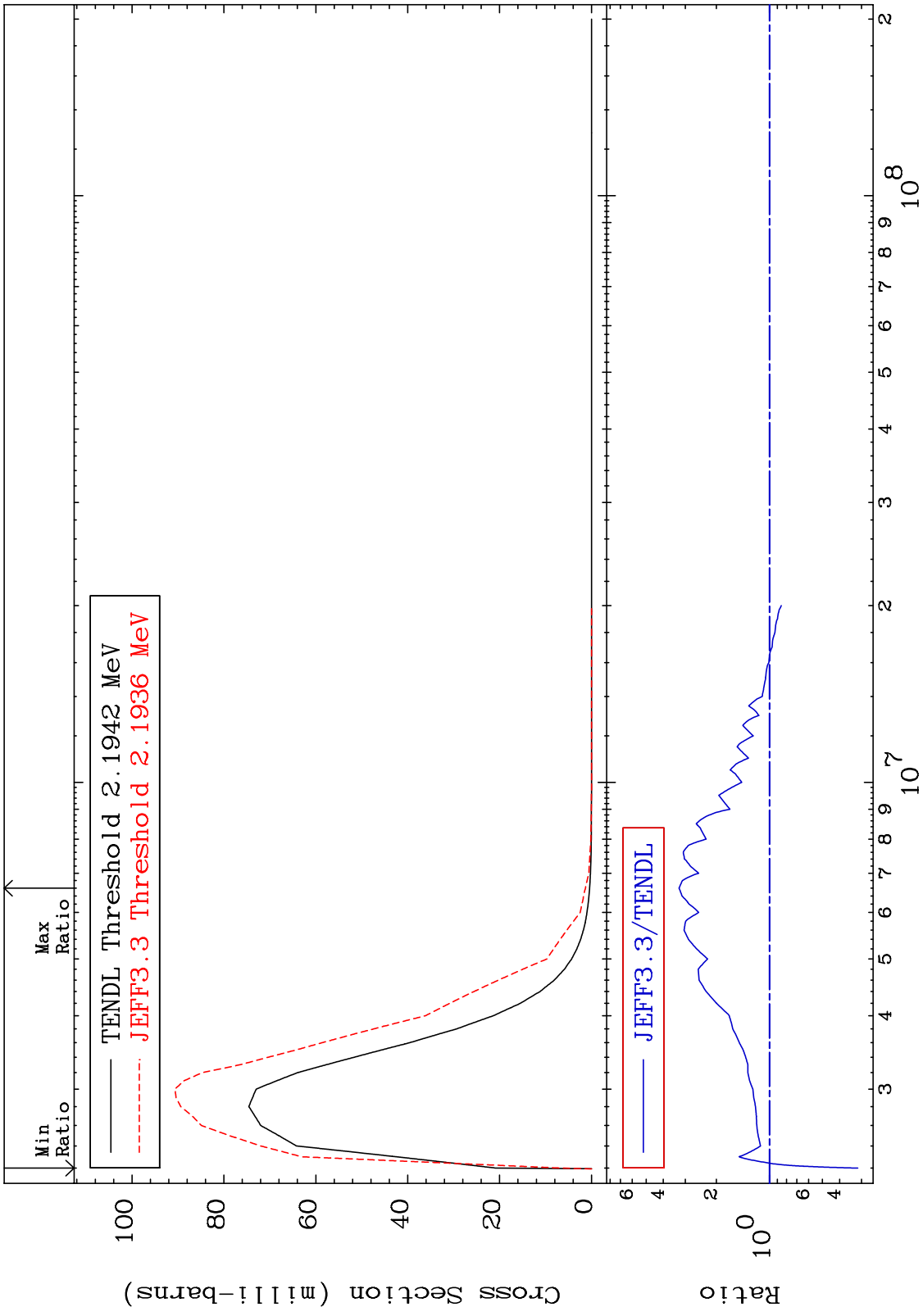
MAT 6031 MT= 58 (n,n') Level Cross Section 60-Nd-144
 -100.0 To 137.8 %



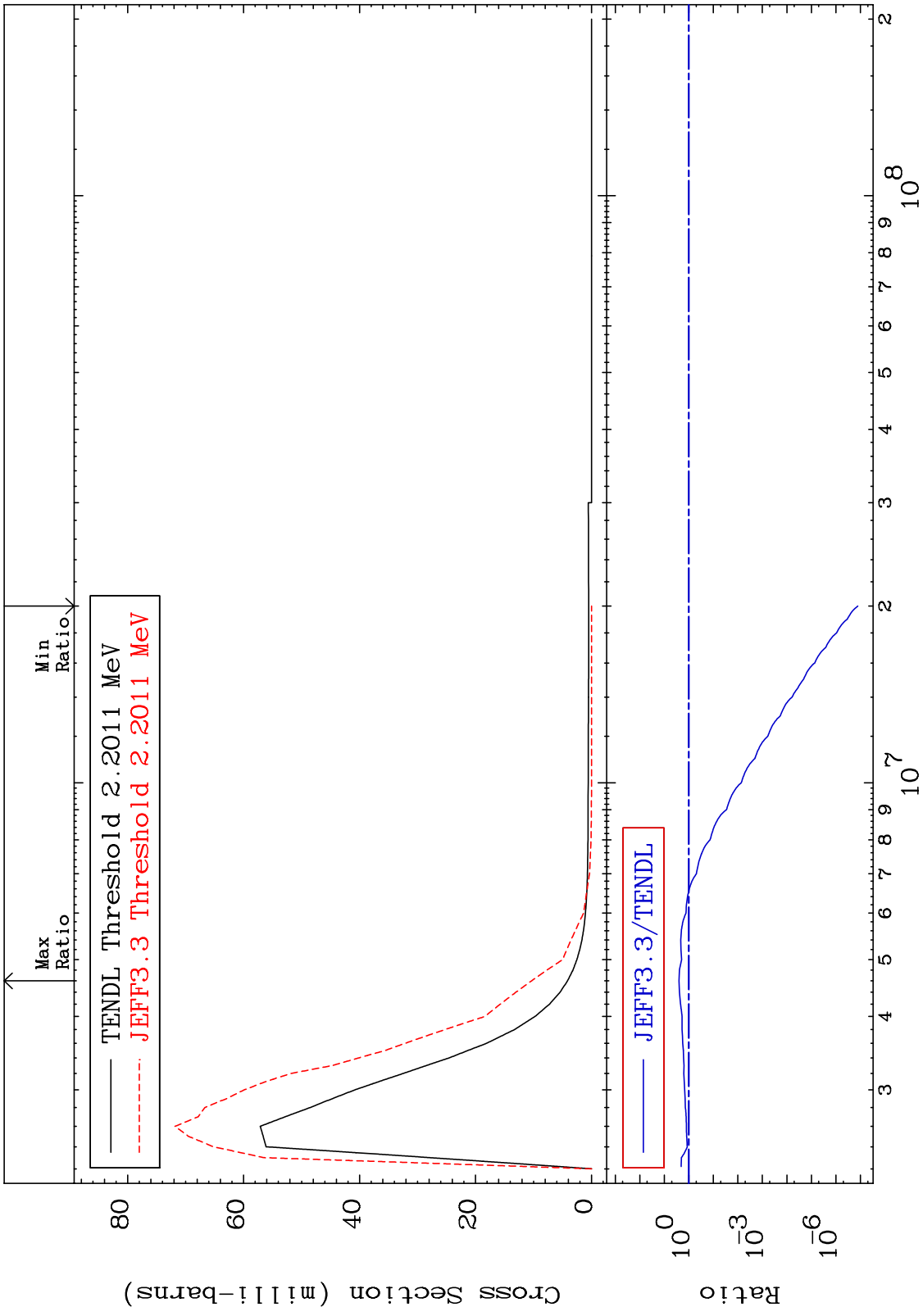
MAT 6031 MT= 59 (n,n') Level Cross Section 60-Nd-144
 -100.0 To 131.9 %



MAT 6031 MT= 60 (n,n') Level Cross Section 60-Nd-144
 -68.49 To 225.2 %

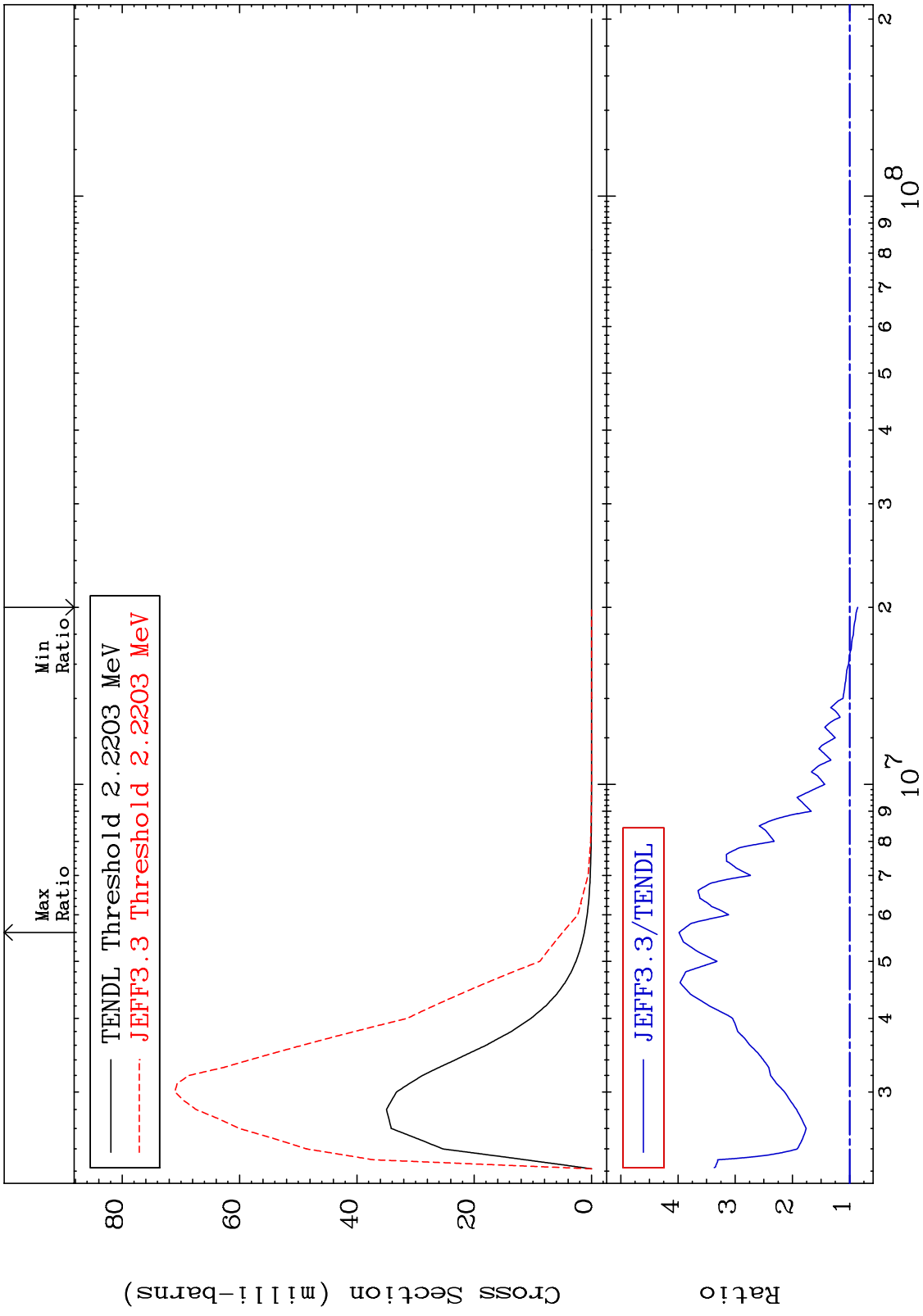


MAT 6031 MT= 61 (n,n') Level Cross Section 60-Nd-144
 -100.0 To 150.3 %

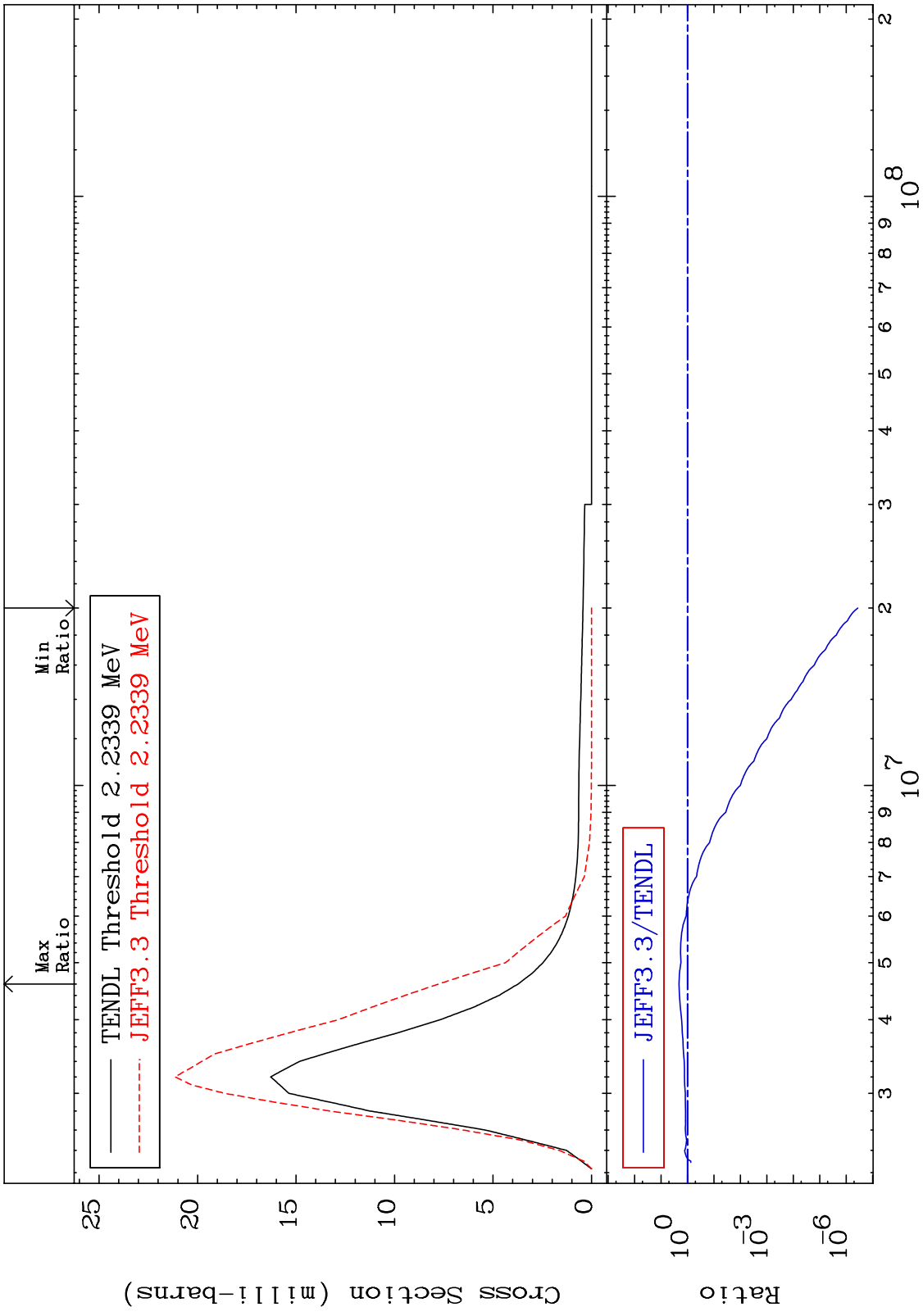


20 Incident Energy (eV) 60-Nd-144

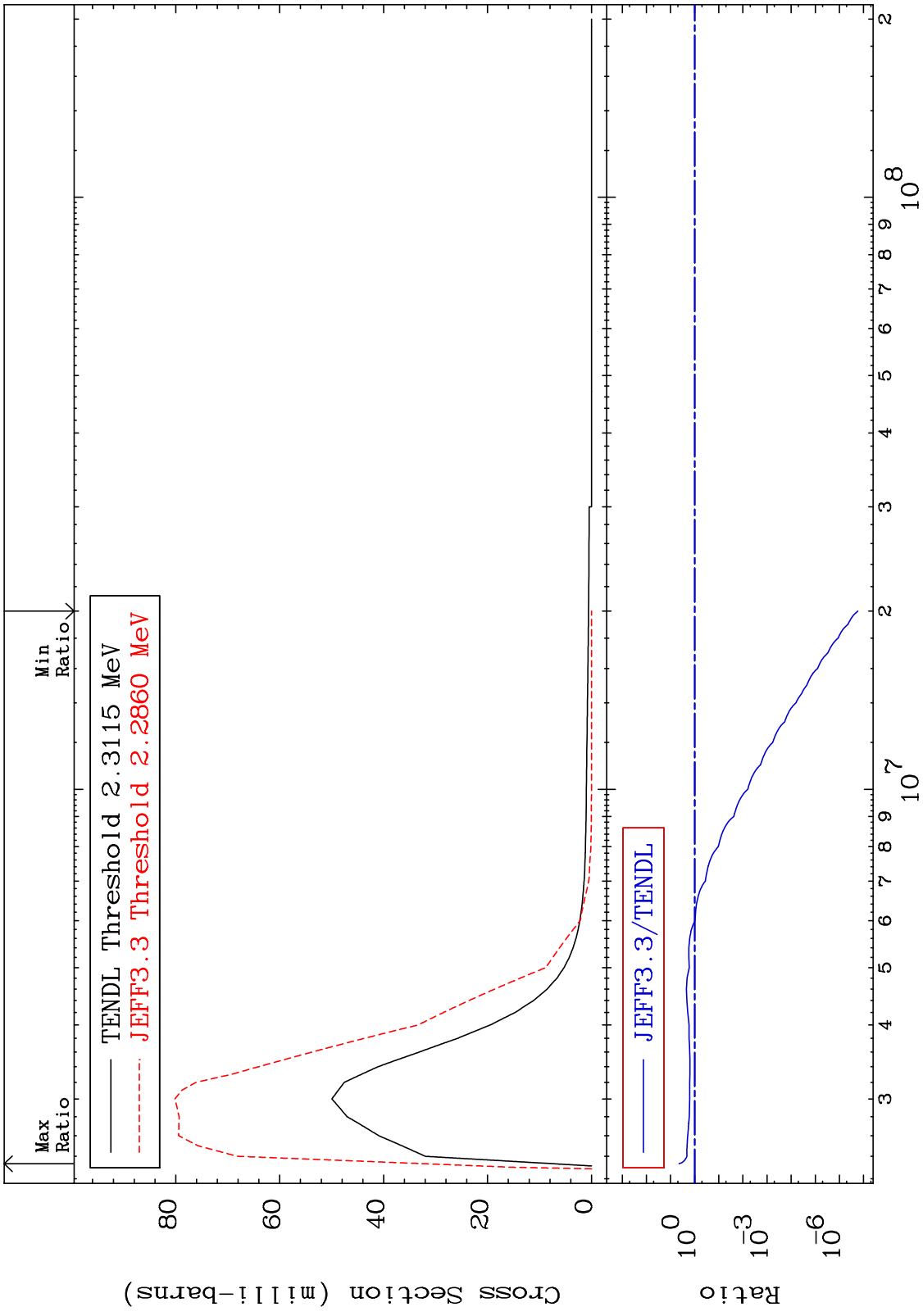
MAT 6031 MT= 62 (n,n') Level Cross Section 60-Nd-144
 -14.37 To 298.2 %



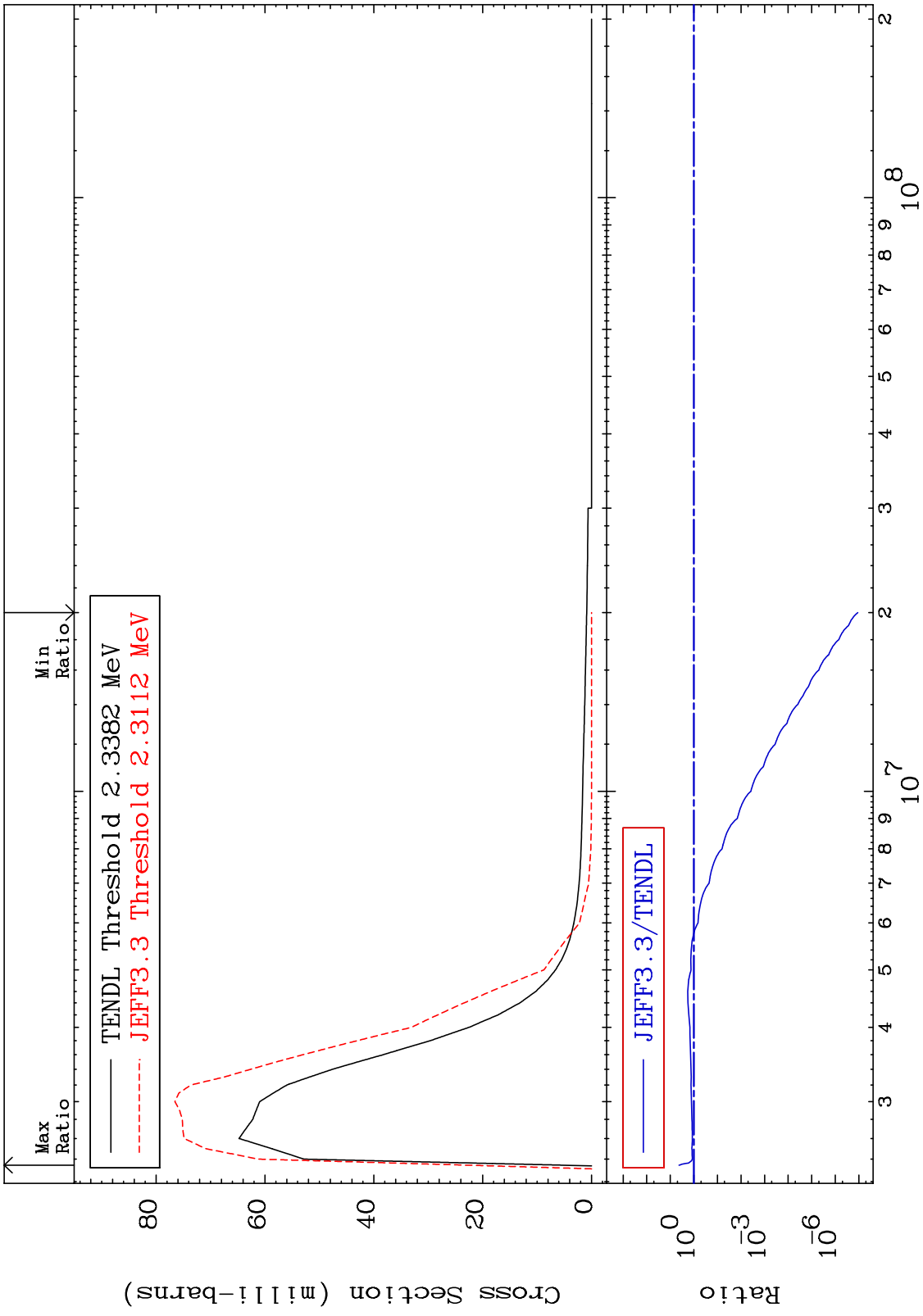
MAT 6031 MT= 63 (n,n') Level Cross Section 60-Nd-144
 -100.0 To 108.4 %



MAT 6031 MT= 64 (n,n') Level Cross Section 60-Nd-144
 -100.0 To 344.1 %



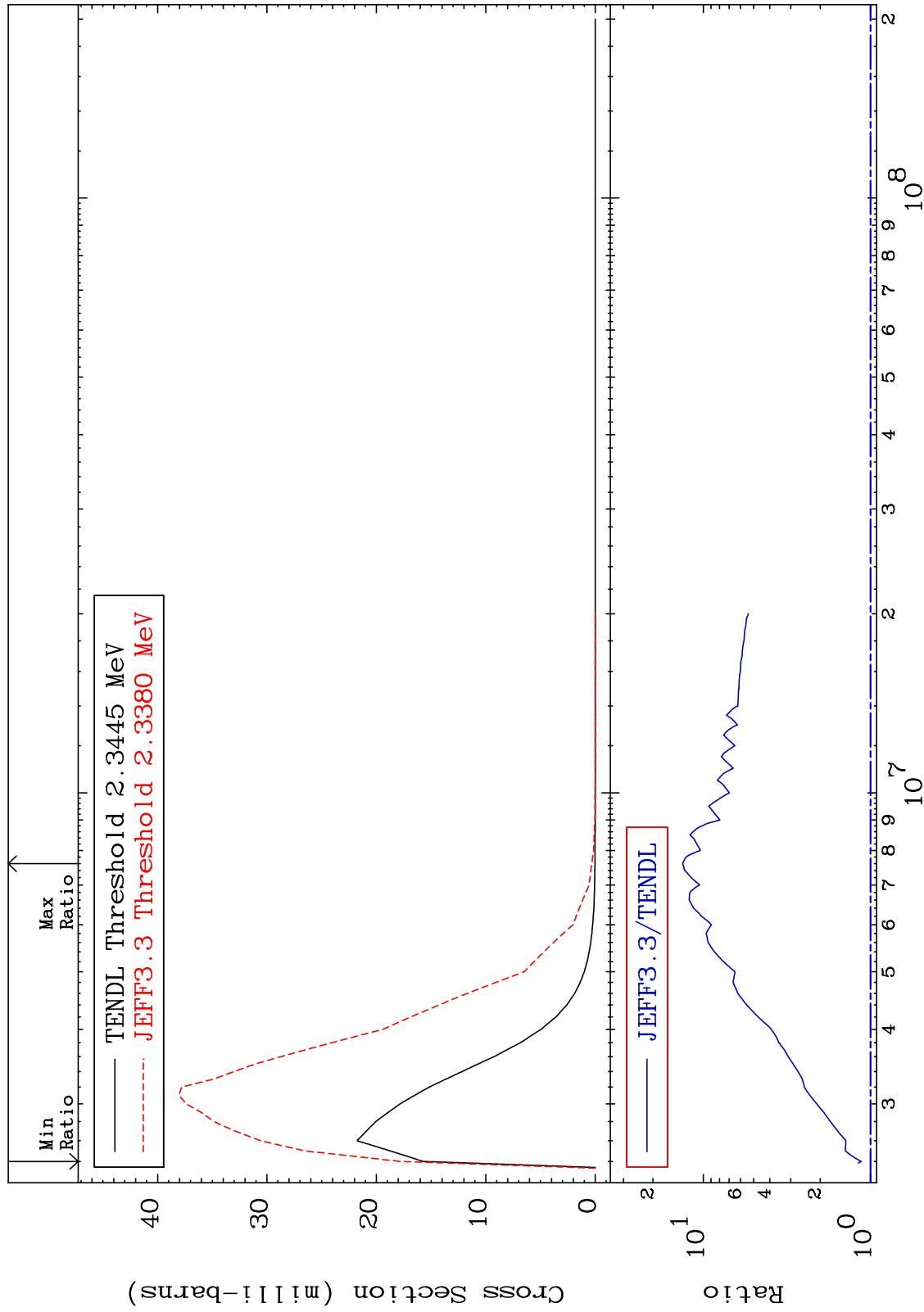
MAT 6031 MT= 65 (n,n') Level Cross Section 60-Nd-144
 -100.0 To 325.0 %



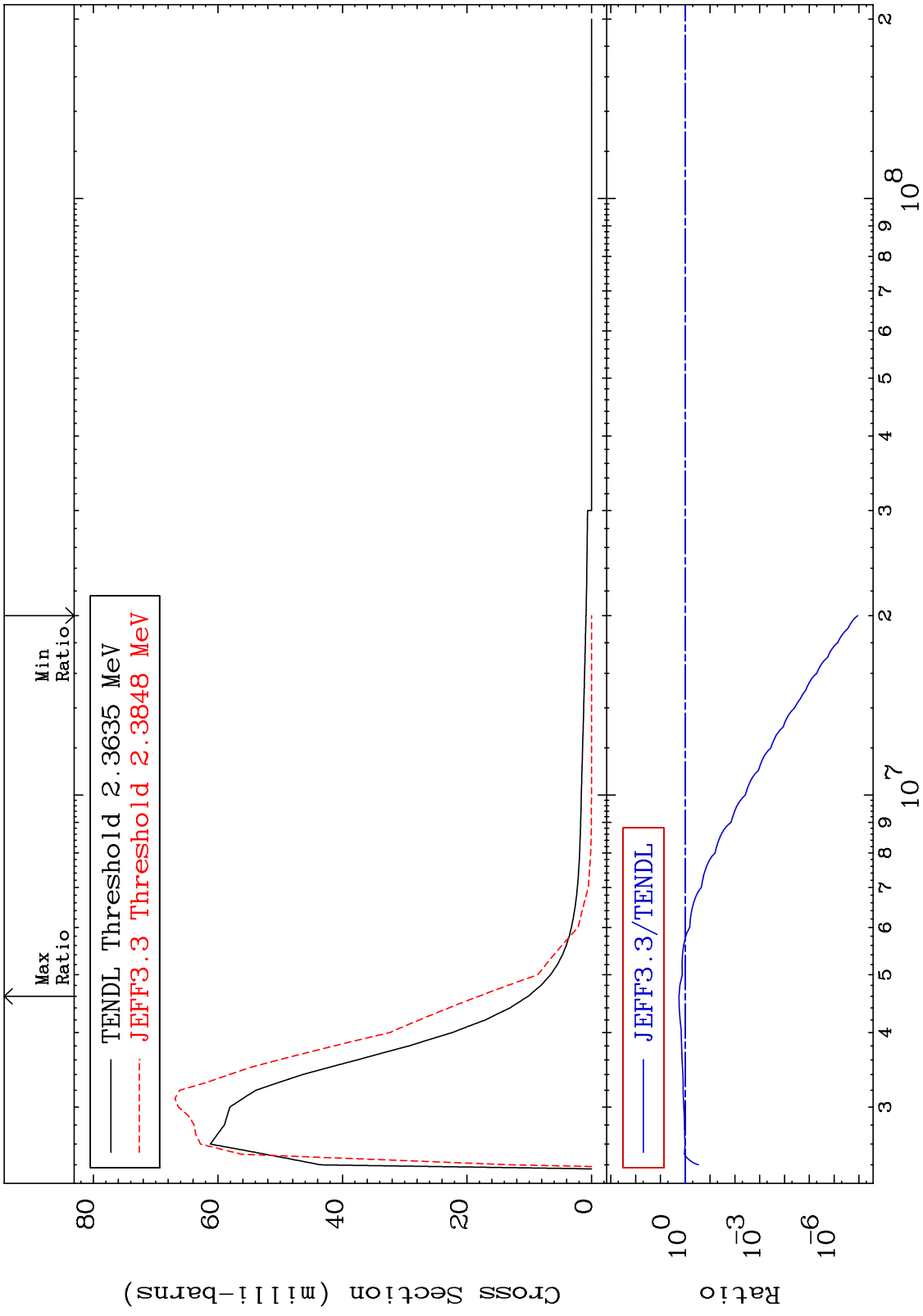
MAT 6031

MT= 66 (n,n') Level
Cross Section

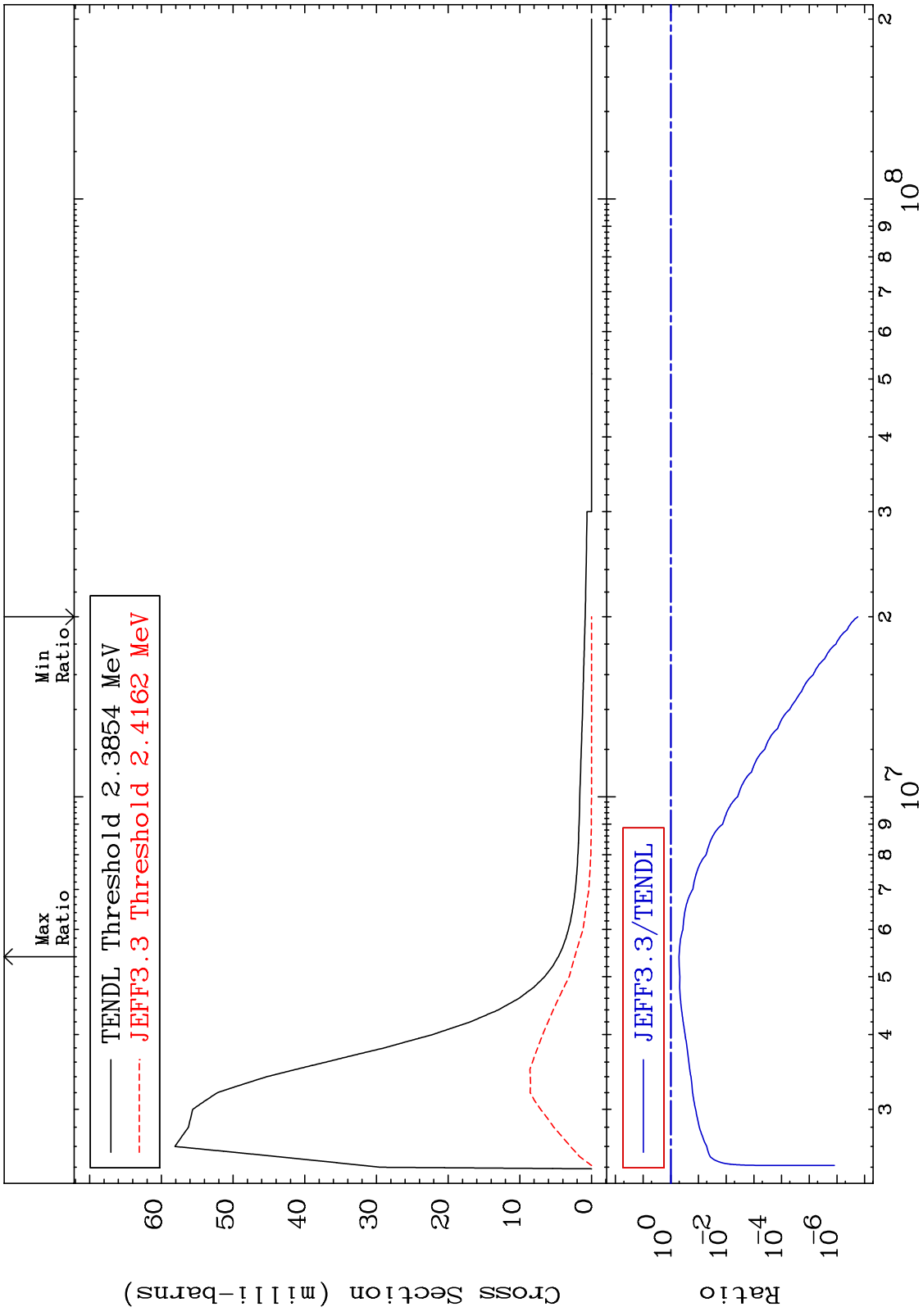
60-Nd-144
13.53 To 1228. %



MAT 6031 MT= 67 (n,n') Level Cross Section 60-Nd-144
 -100.0 To 78.14 %



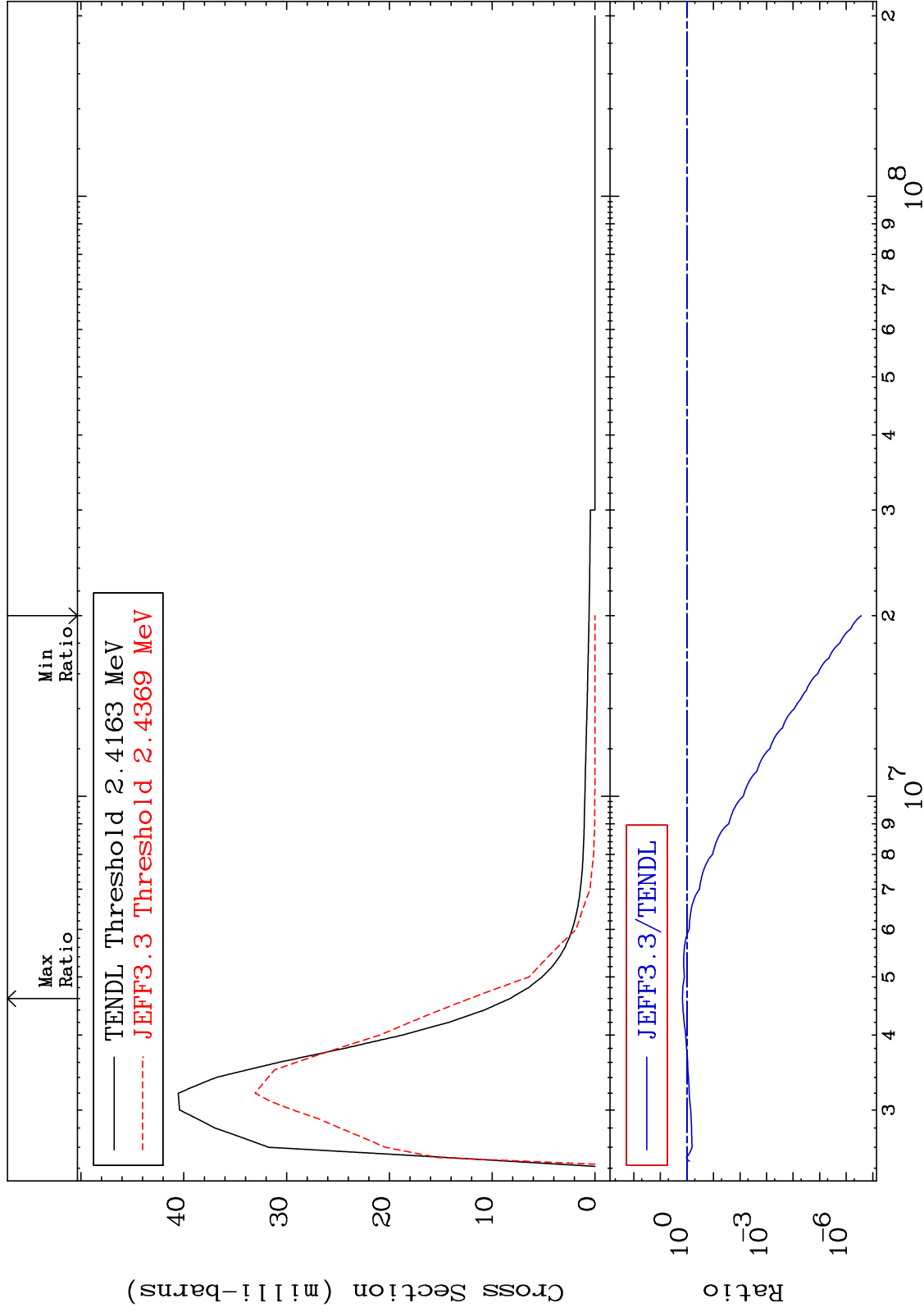
MAT 6031 MT= 68 (n,n') Level Cross Section 60-Nd-144 -100.0 To -49.53%



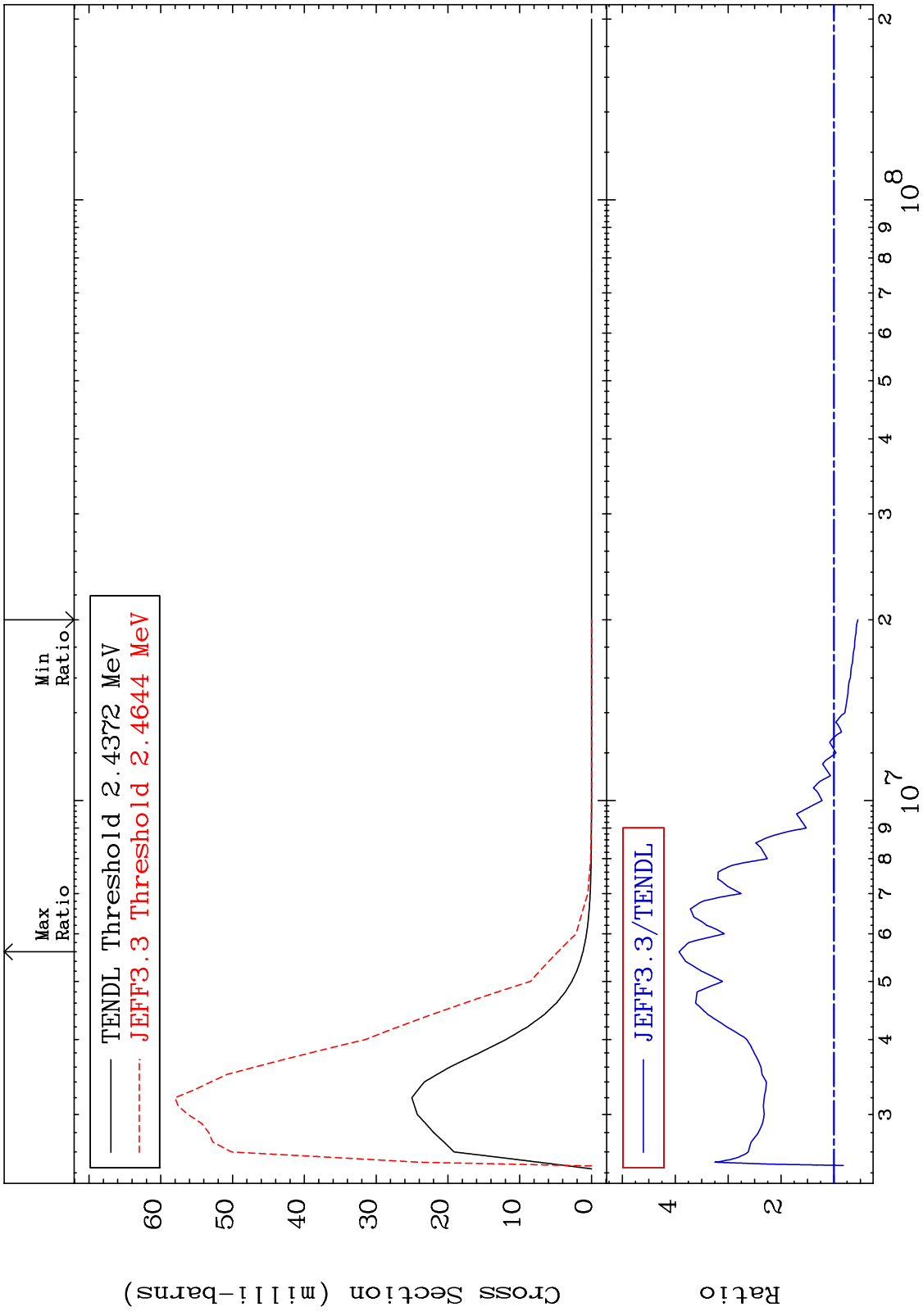
MAT 6031

MT= 69 (n,n') Level
Cross Section

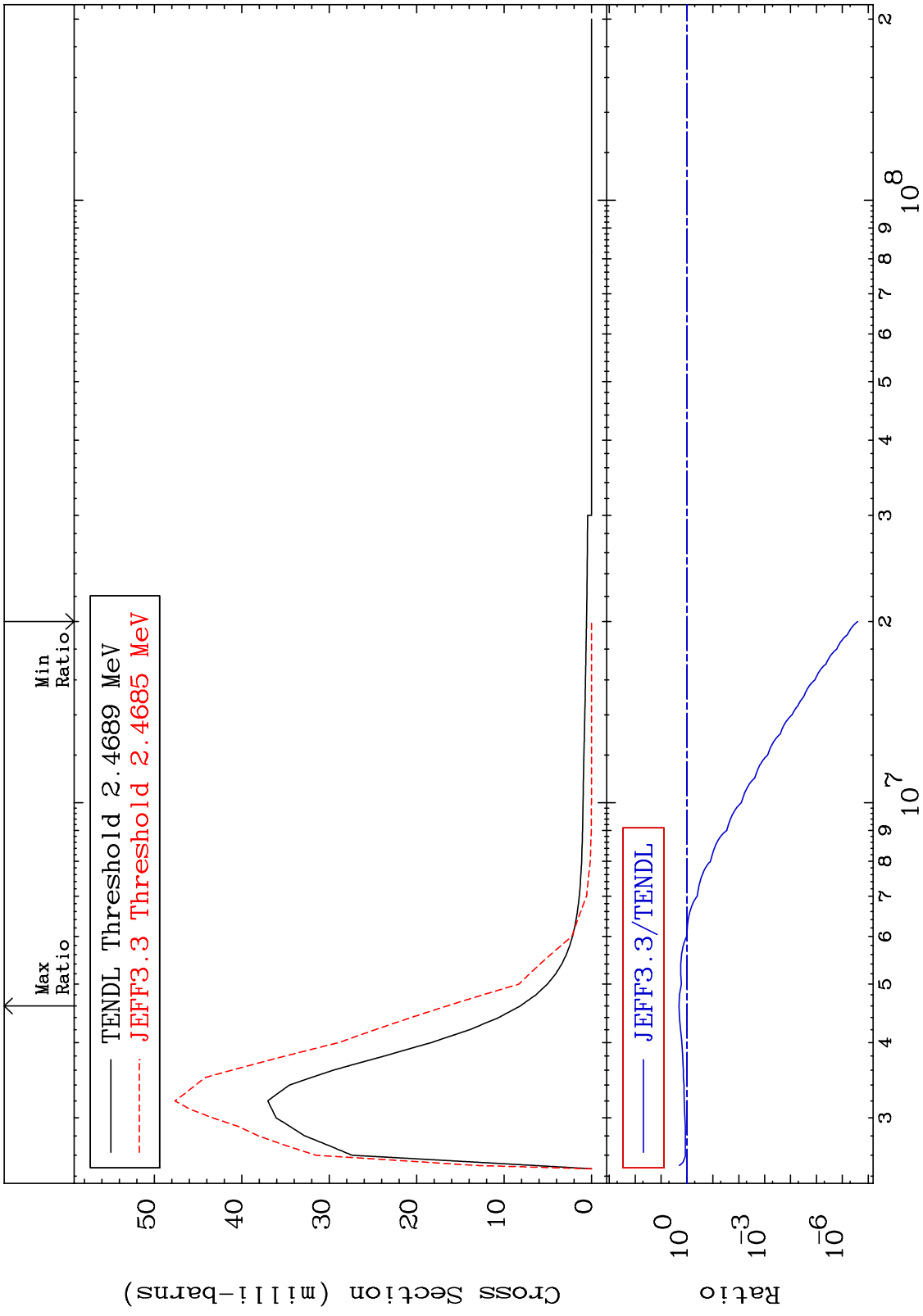
60-Nd-144
-100.0 To 47.33 %



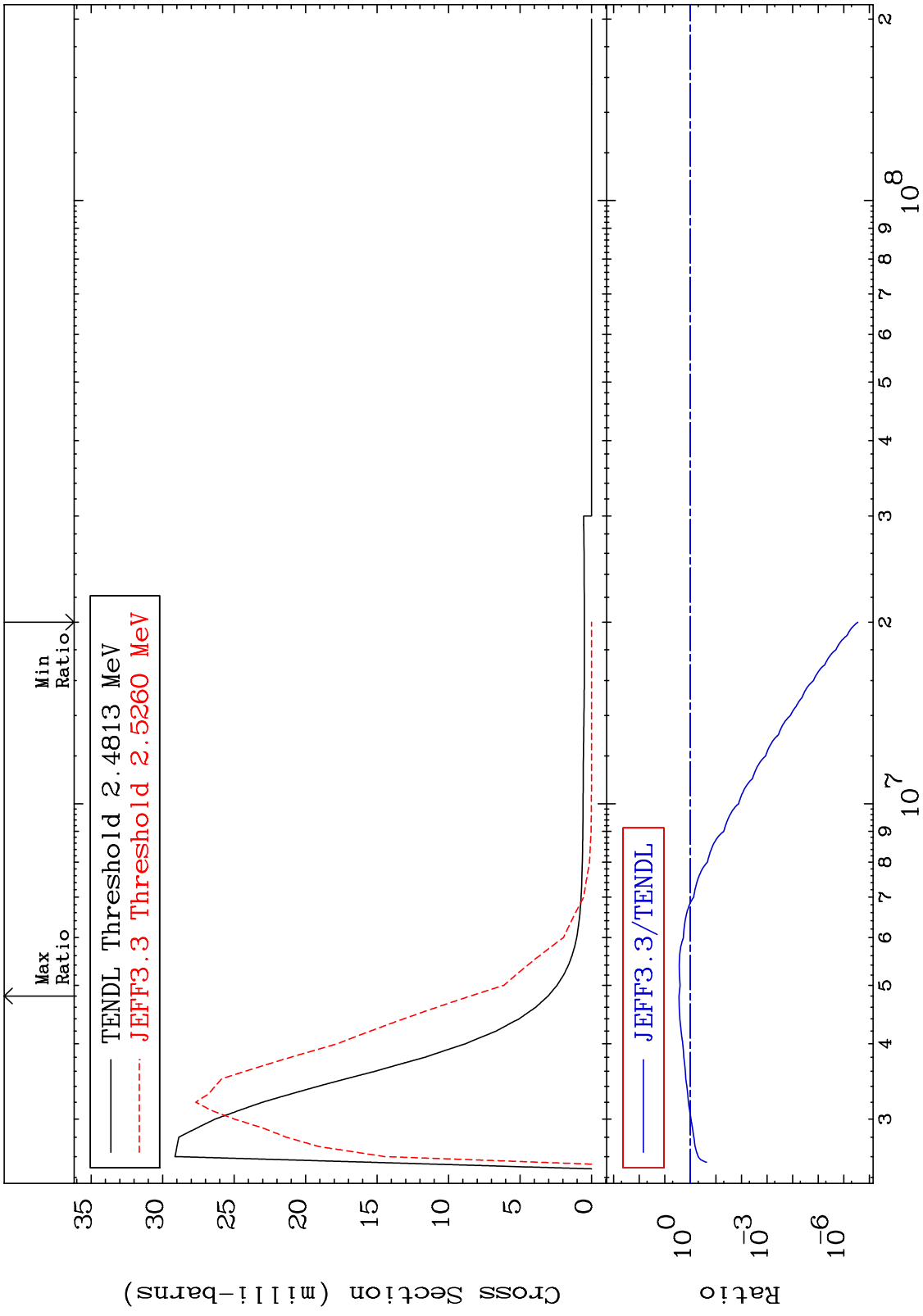
MAT 6031 MT= 70 (n,n') Level Cross Section 60-Nd-144
 -45.29 To 292.7 %



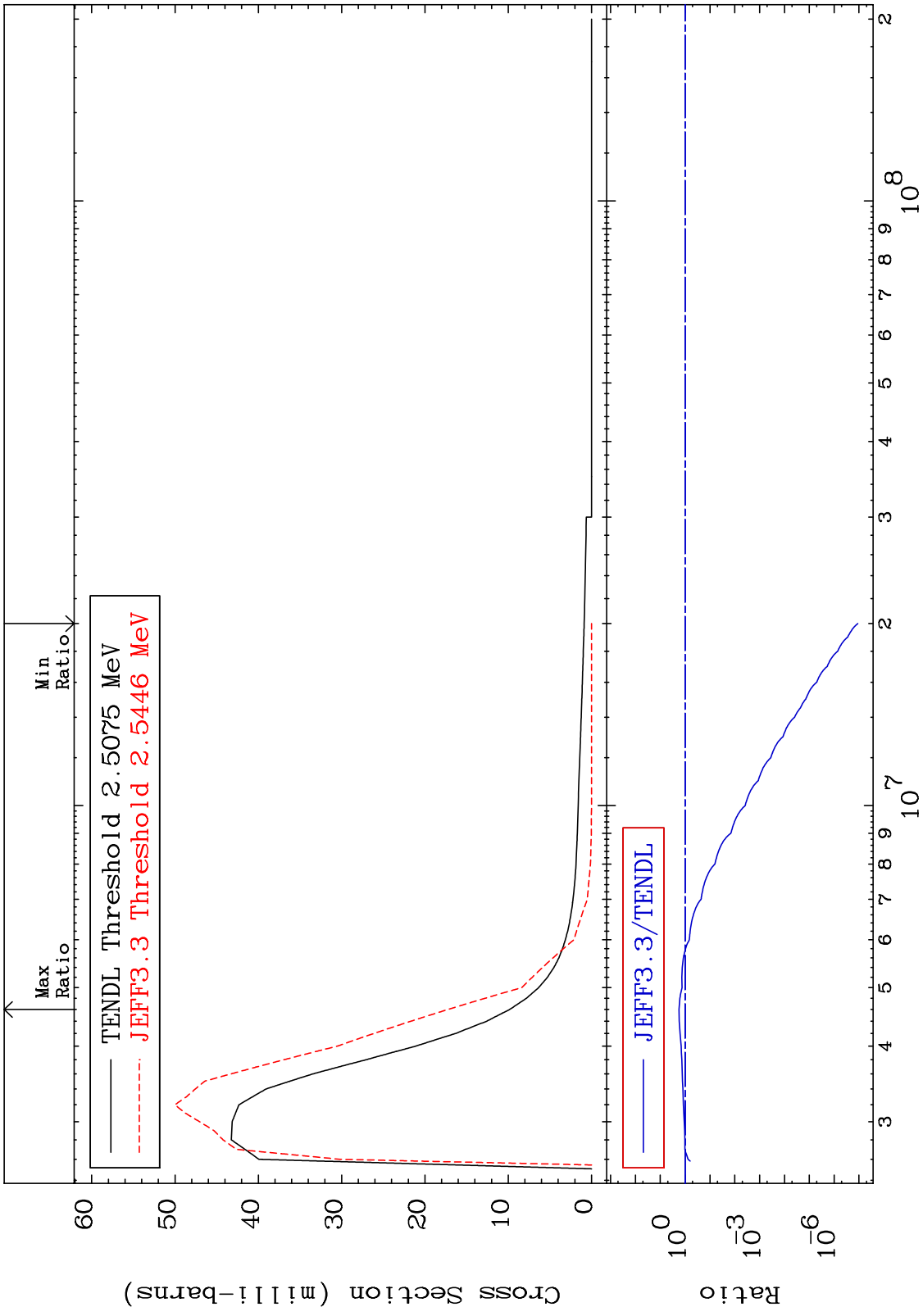
MAT 6031 MT= 71 (n,n') Level Cross Section 60-Nd-144
 -100.0 To 102.8 %



MAT 6031 MT= 72 (n,n') Level Cross Section 60-Nd-144
 -100.0 To 178.6 %

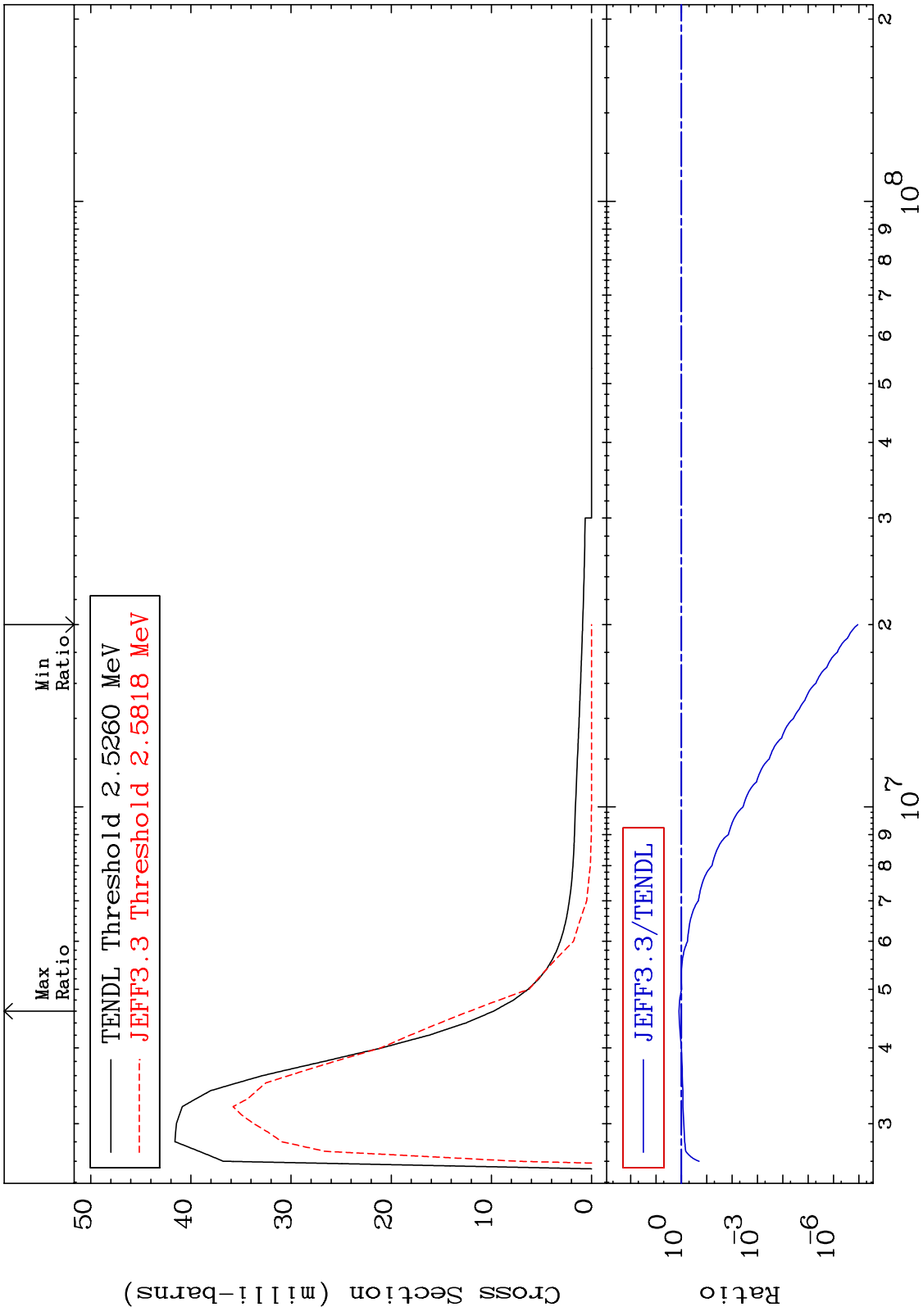


MAT 6031 MT= 73 (n,n') Level Cross Section 60-Nd-144
 -100.0 To 75.46 %

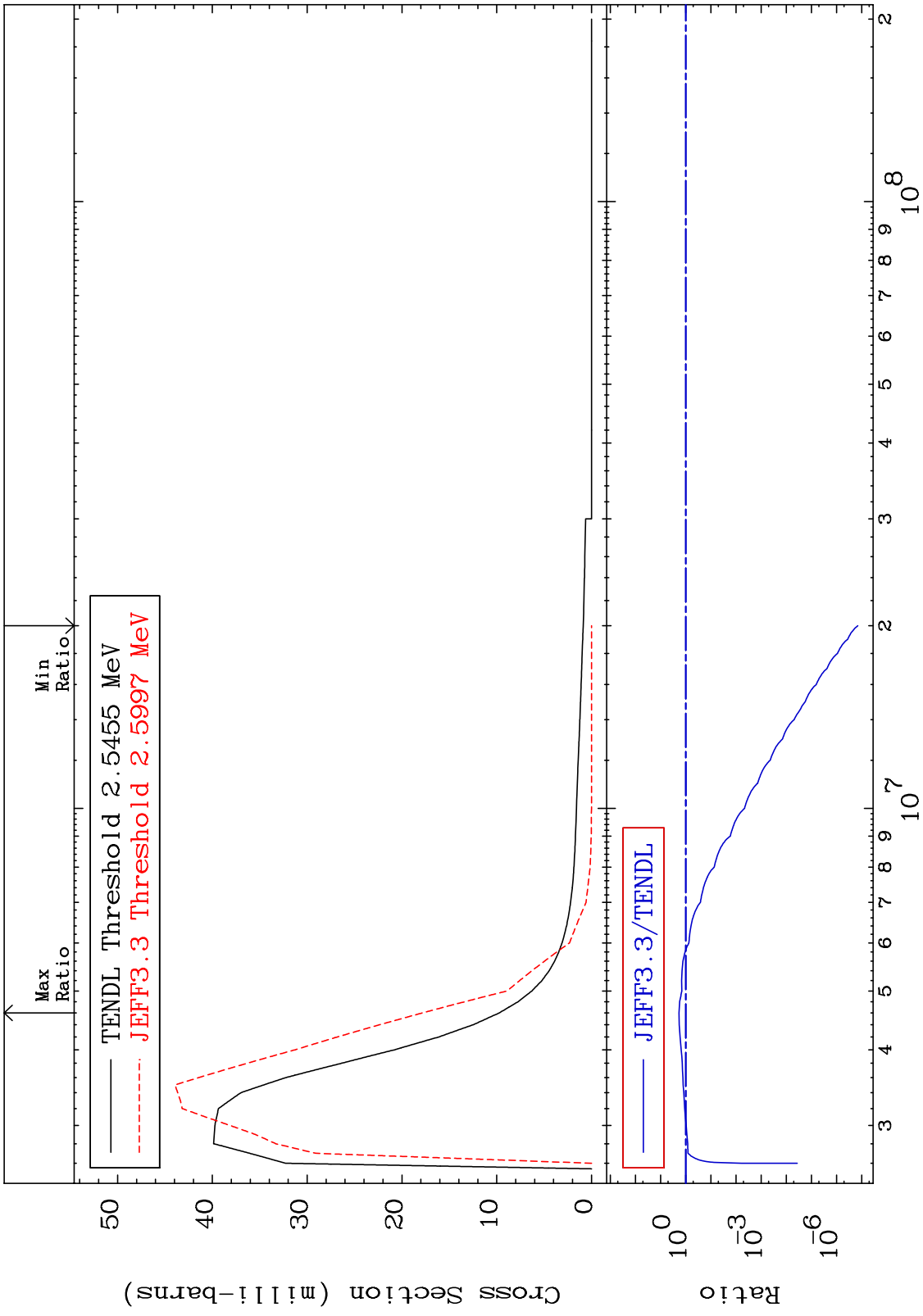


32 Incident Energy (eV) 60-Nd-144

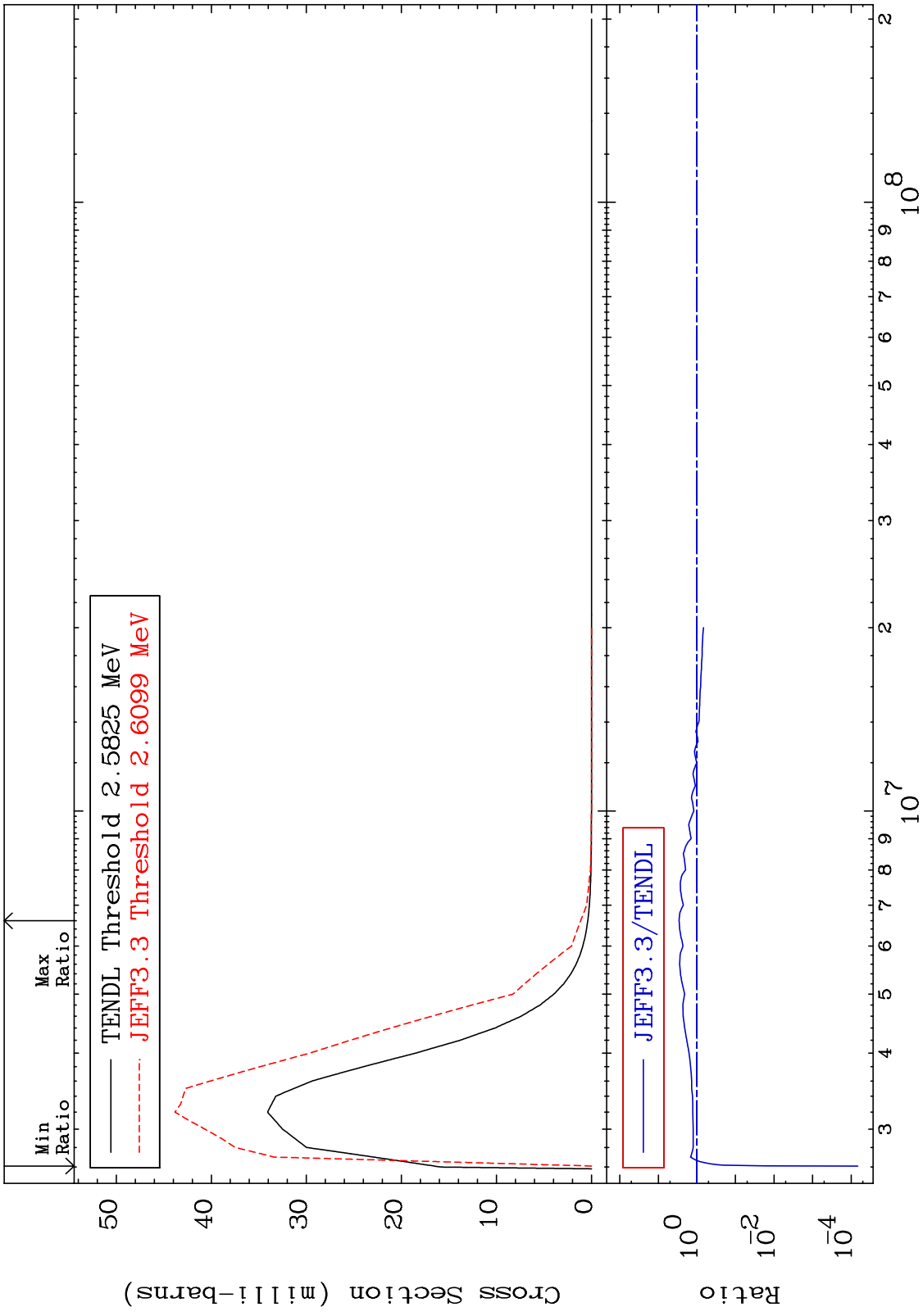
MAT 6031 MT= 74 (n,n') Level Cross Section 60-Nd-144
 -100.0 To 24.43 %



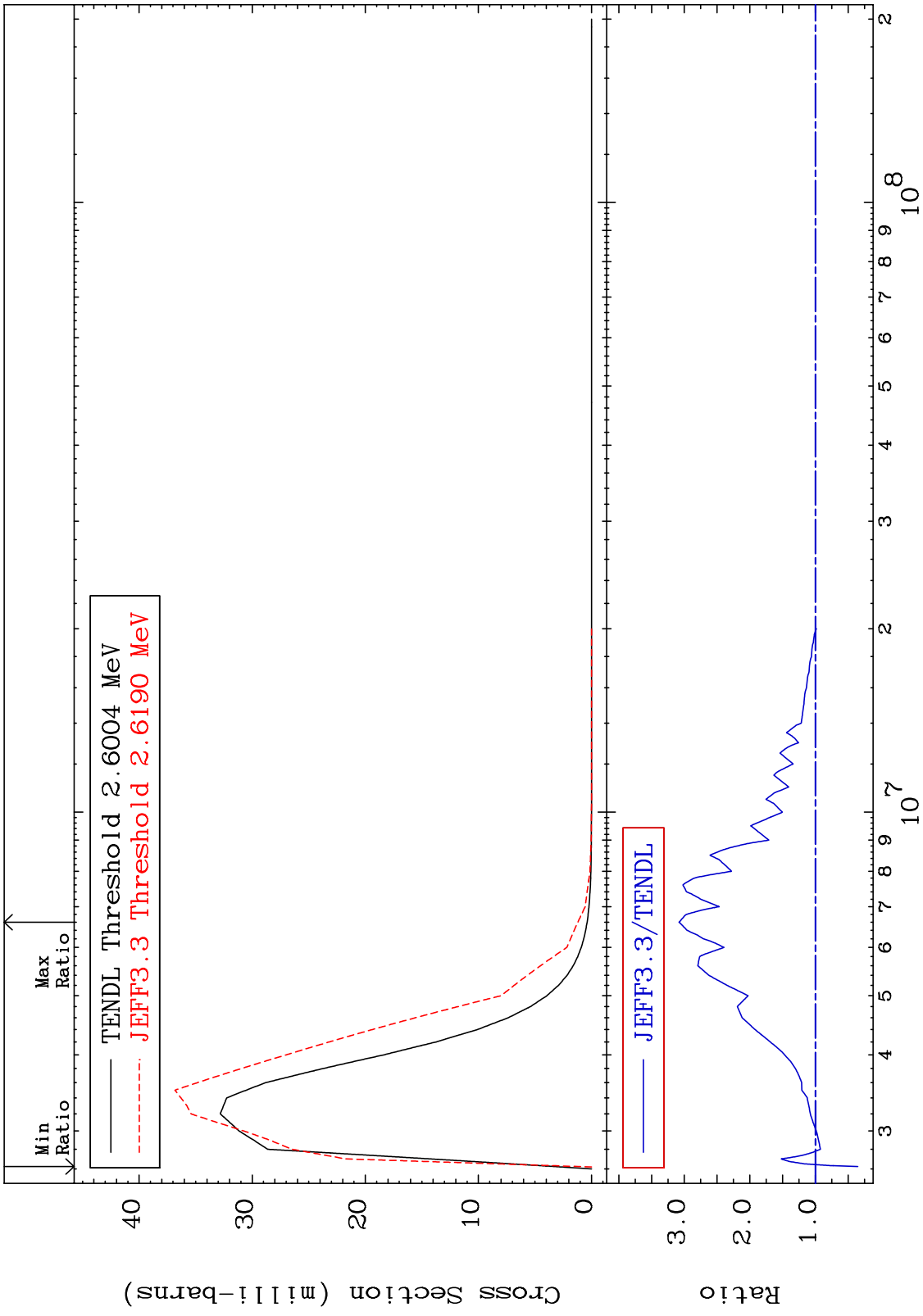
MAT 6031 MT= 75 (n,n') Level Cross Section 60-Nd-144
 -100.0 To 83.45 %



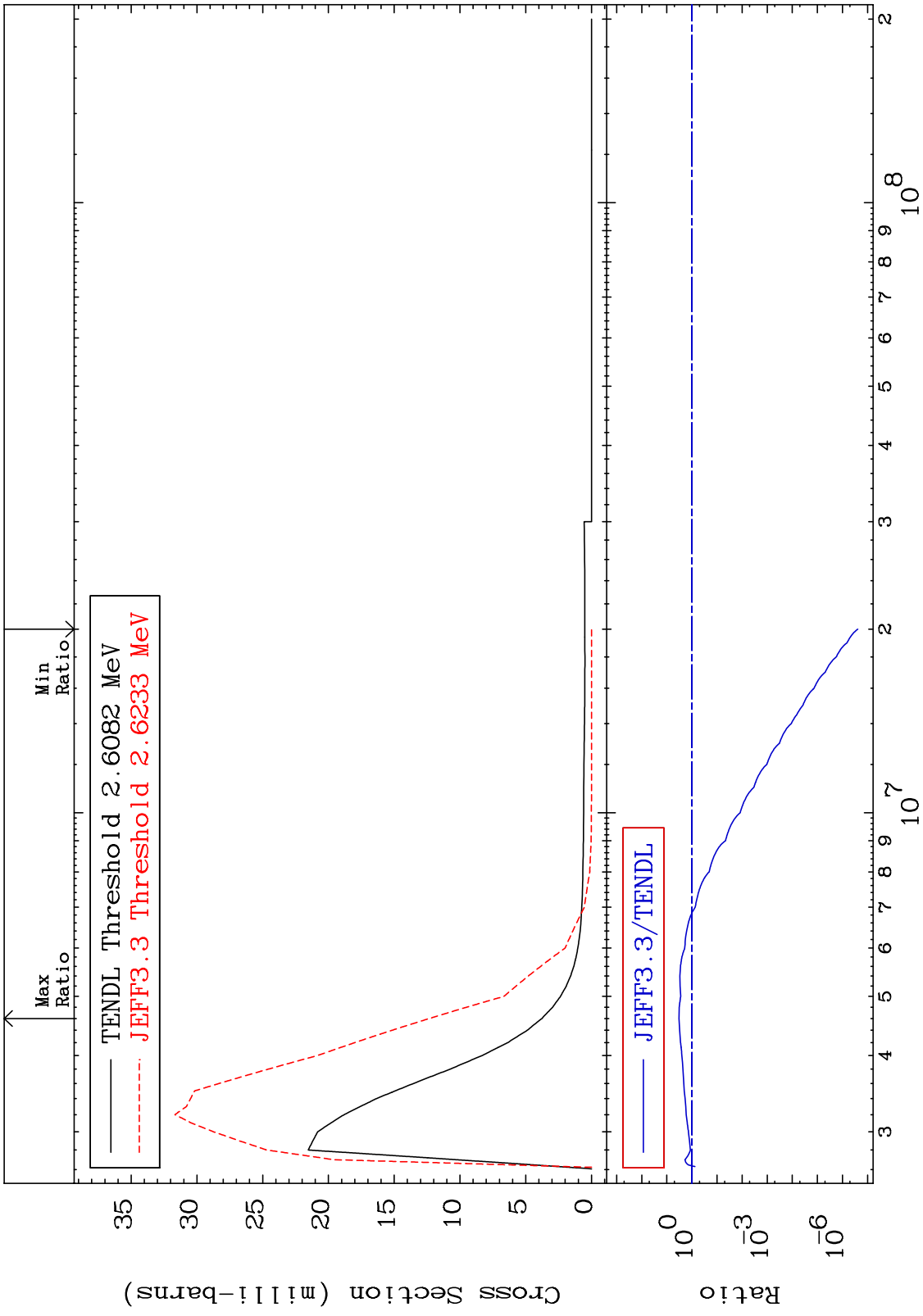
MAT 6031 MT= 76 (n,n') Level Cross Section 60-Nd-144
 -99.99 To 190.7 %



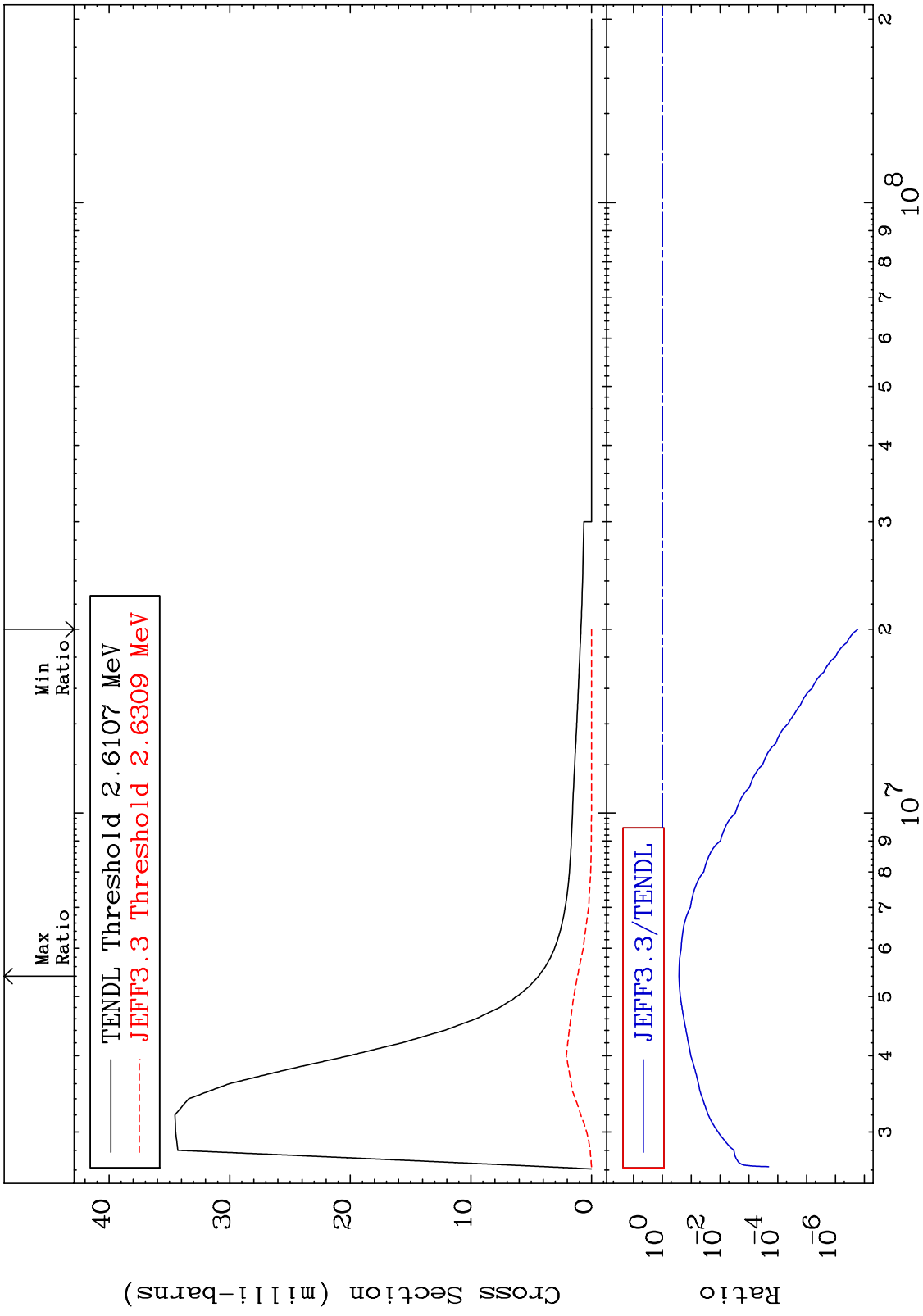
MAT 6031 MT= 77 (n,n') Level Cross Section 60-Nd-144
 -64.71 To 208.1 %



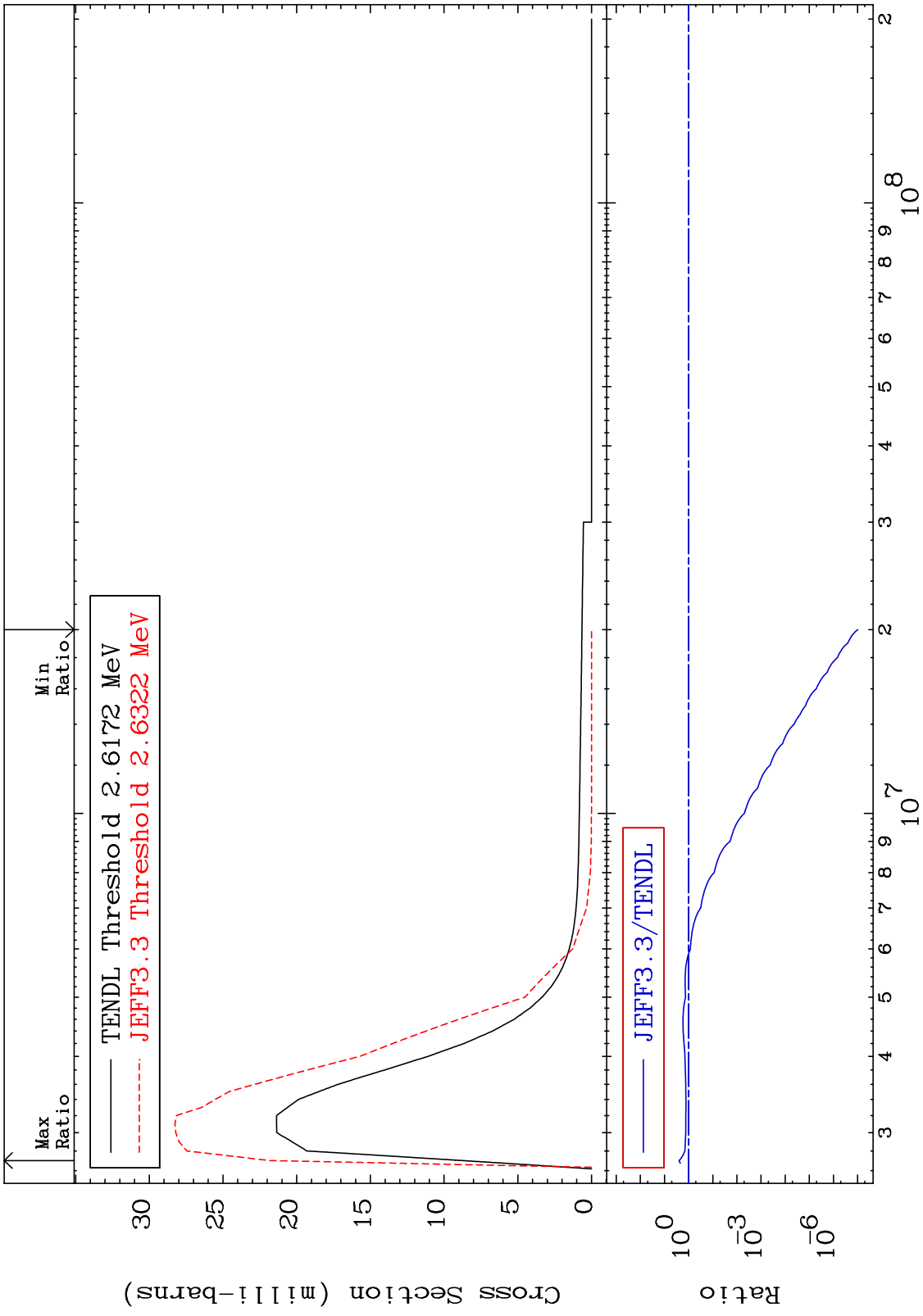
MAT 6031 MT= 78 (n,n') Level Cross Section 60-Nd-144
 -100.0 To 226.3 %



MAT 6031 MT= 79 (n,n') Level Cross Section 60-Nd-144
 -100.0 To -73.51%



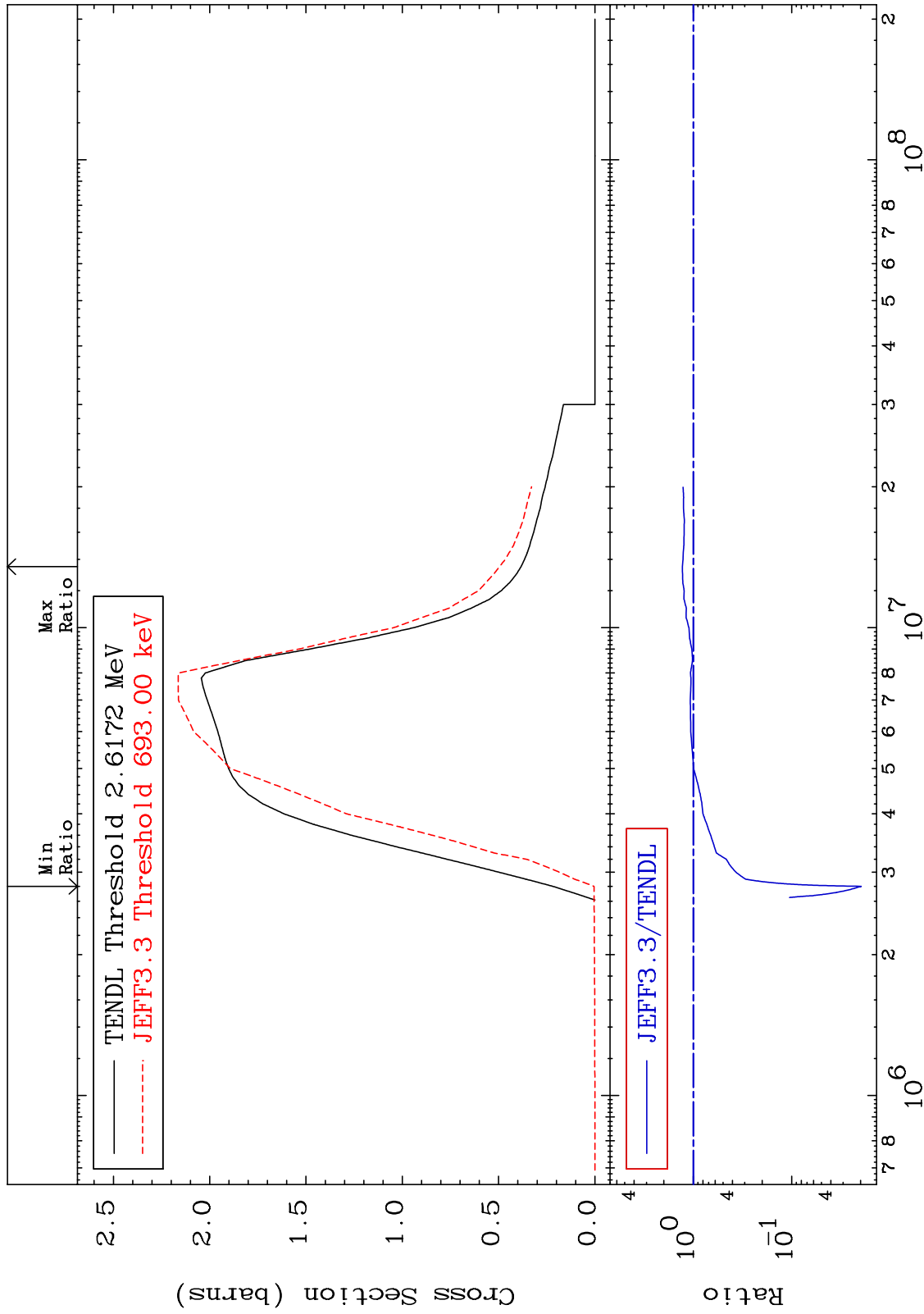
MAT 6031 MT= 80 (n,n') Level Cross Section 60-Nd-144
-100.0 To 149.6 %



MAT 6031

(n, n') Continuum
Cross Section

60-Nd-144
-98.04 To 29.08 %



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Incident Energy (eV)

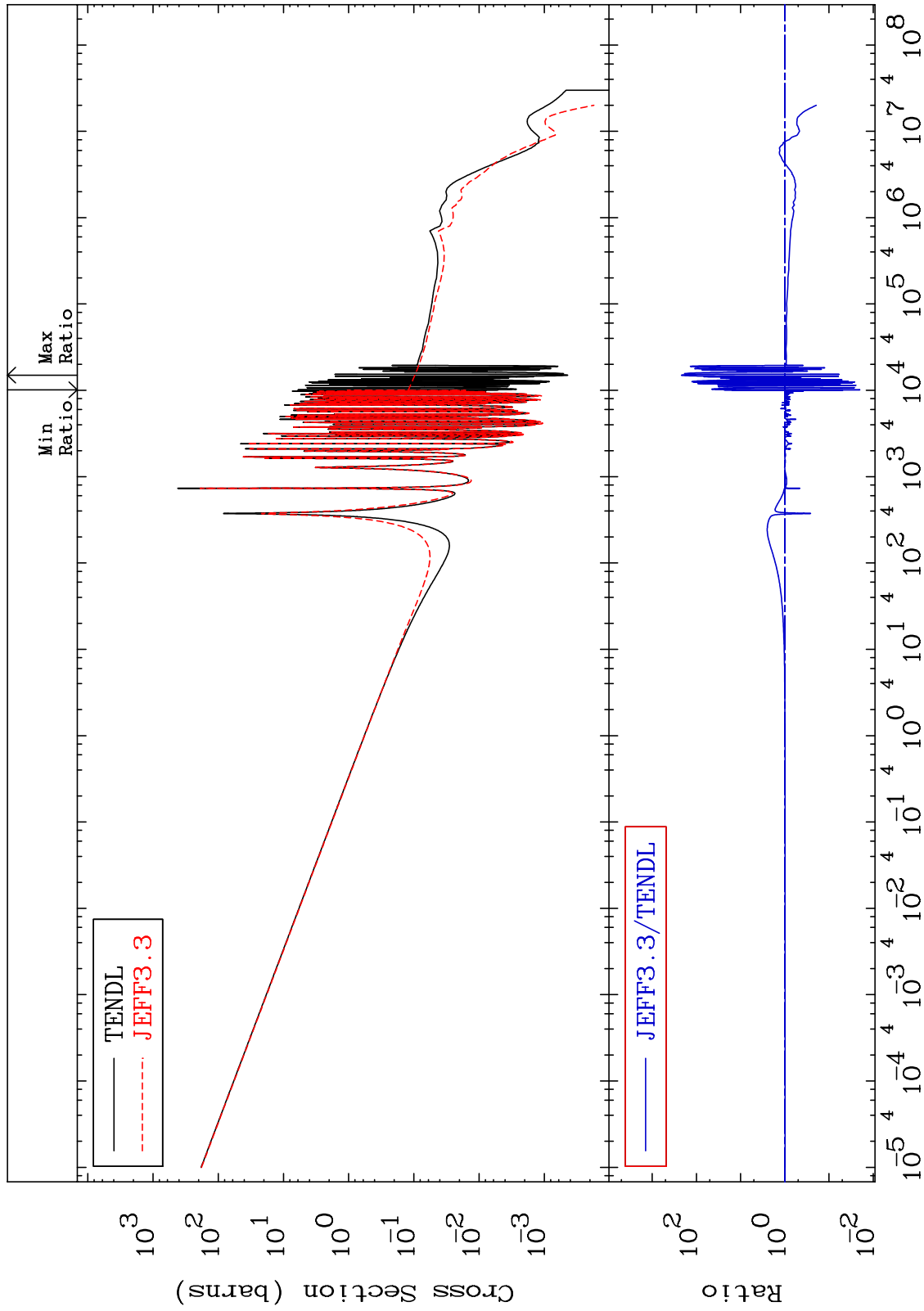
60-Nd-144

MAT 6031

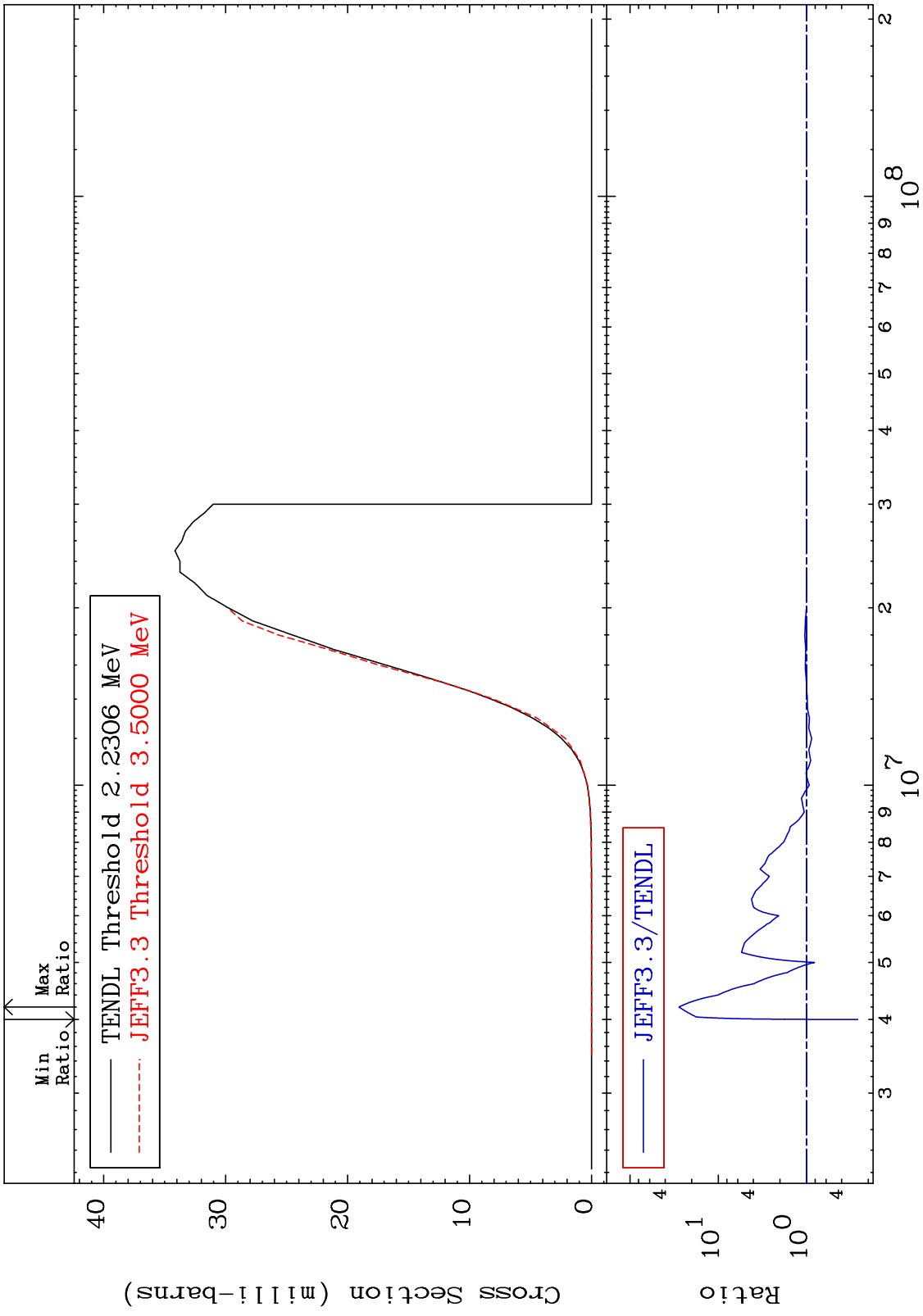
(n, γ)

60-Nd-144
-97.98 To 9999. %

Cross Section



MAT 6031 (n,p) Cross Section 60-Nd-144 -73.80 To 2685. %



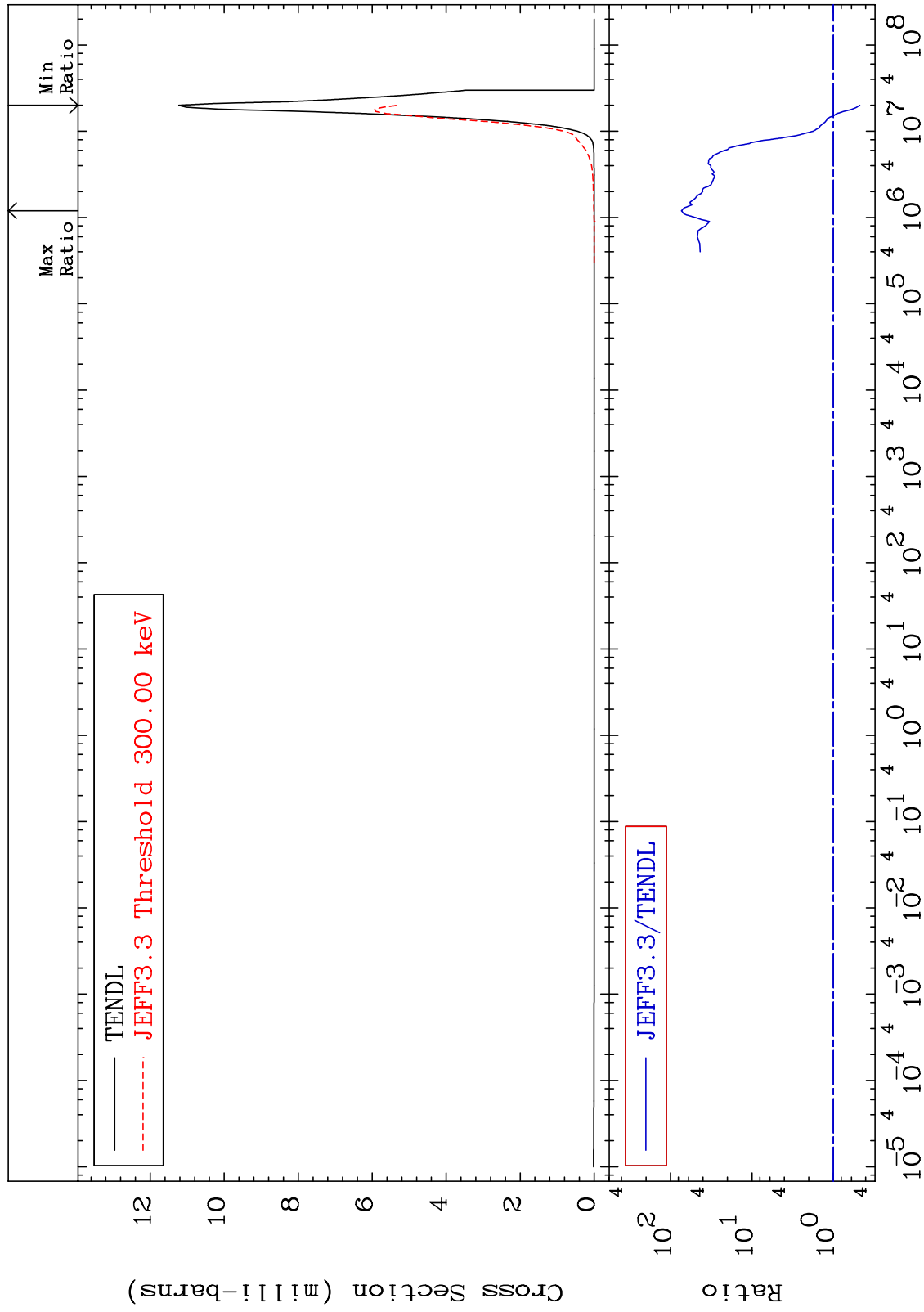
MAT 6031

(n, α)

60-Nd-144

Cross Section

-52.72 To 7242. %



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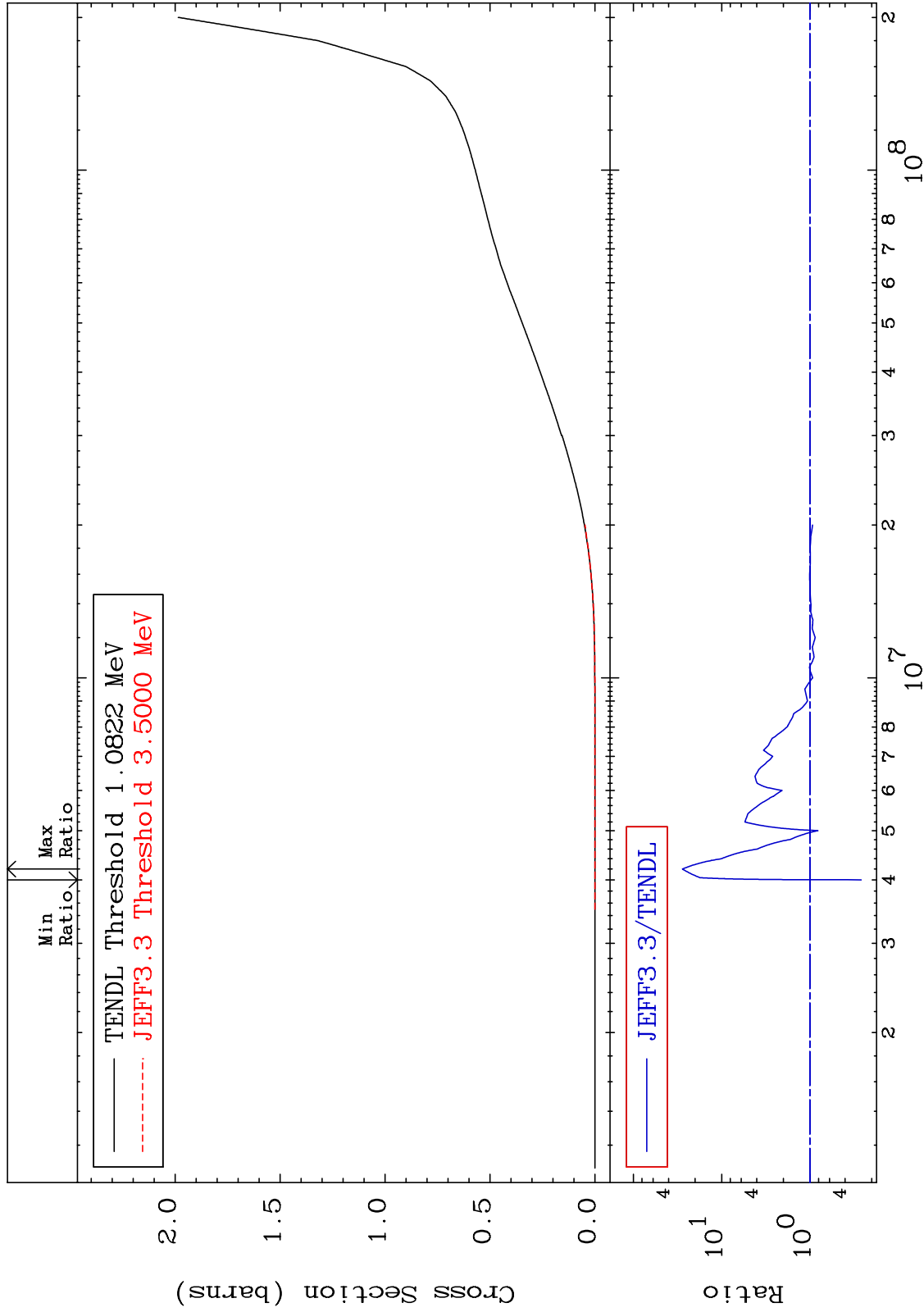
Incident Energy (eV)

60-Nd-144

MAT 6031

Hydrogen Production
Cross Section

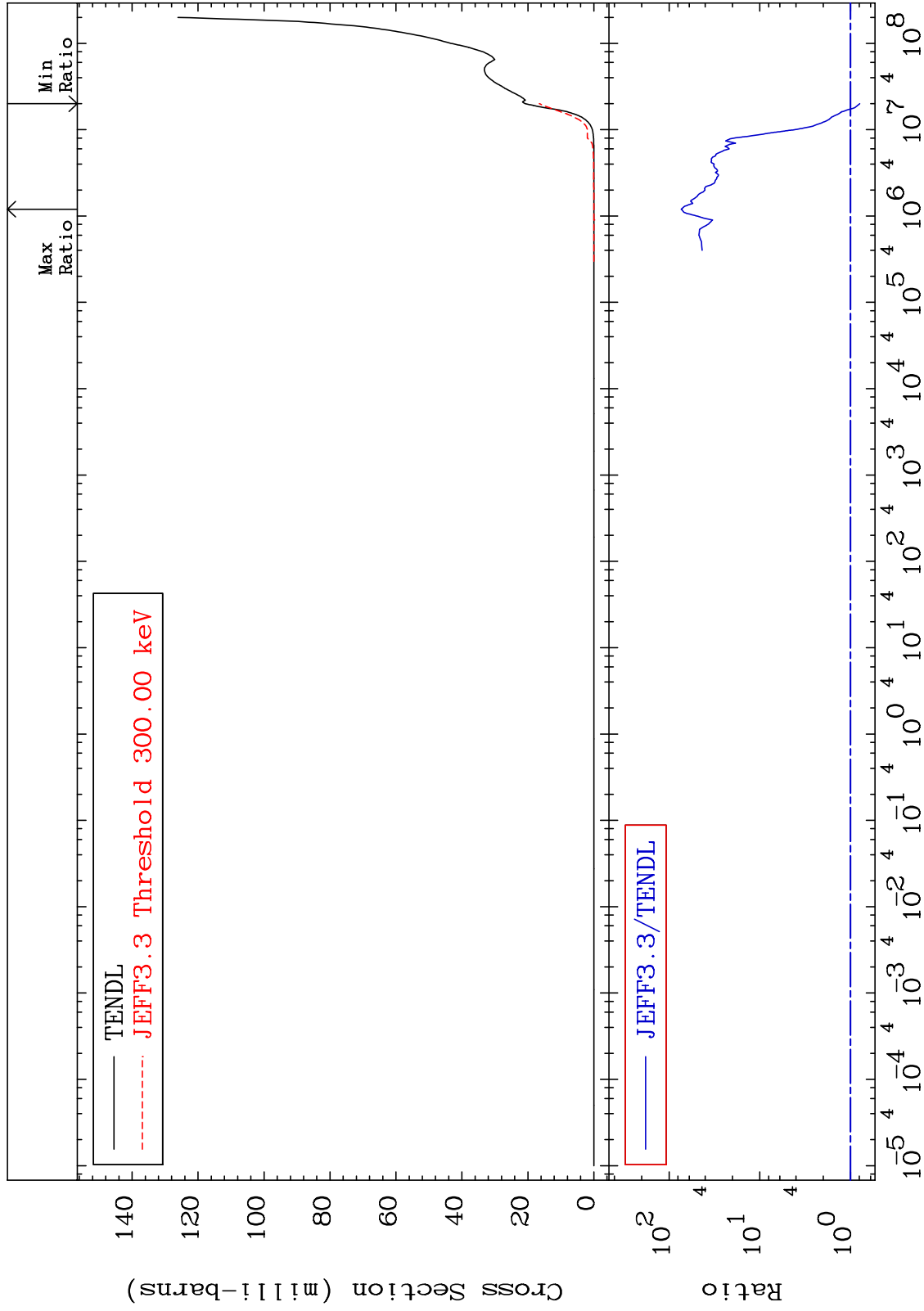
60-Nd-144
-73.80 To 2685. %



MAT 6031

He-4 Production
Cross Section

60-Nd-144
-20.85 To 7242. %

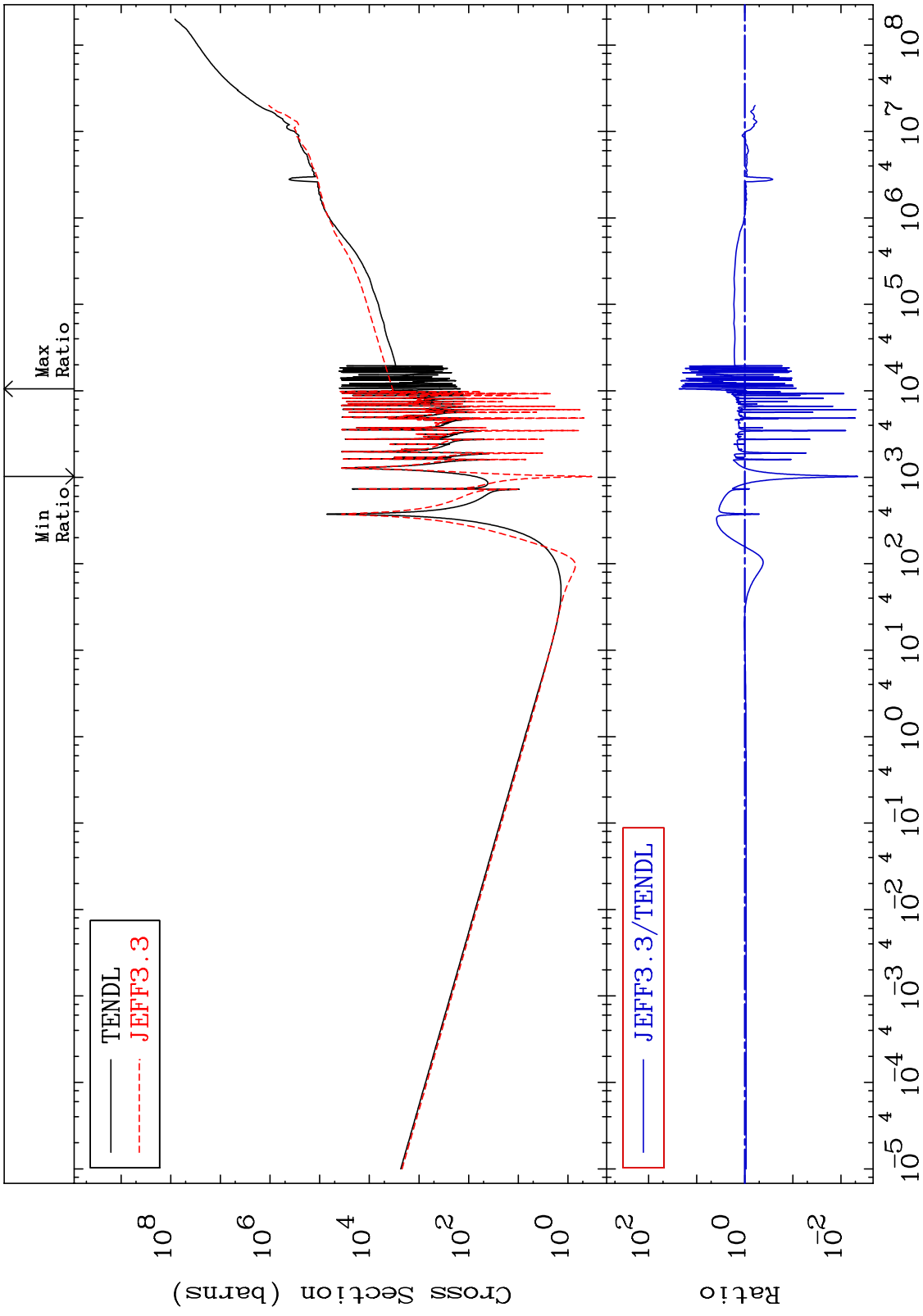


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Incident Energy (eV)

60-Nd-144

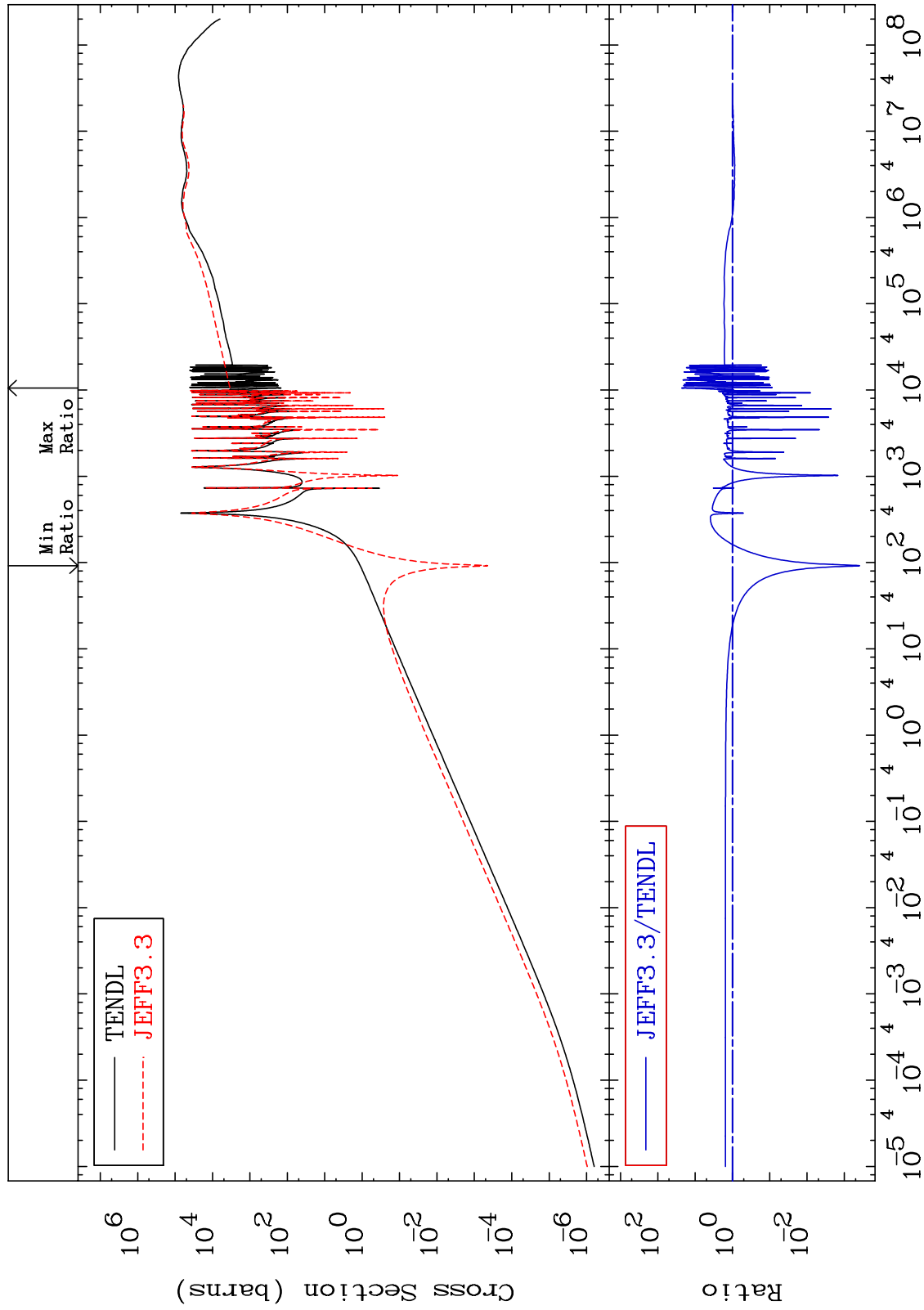
MAT 6031 Kerma total (eV-barns) 60-Nd-144
 Cross Section -99.56 To 2225. %



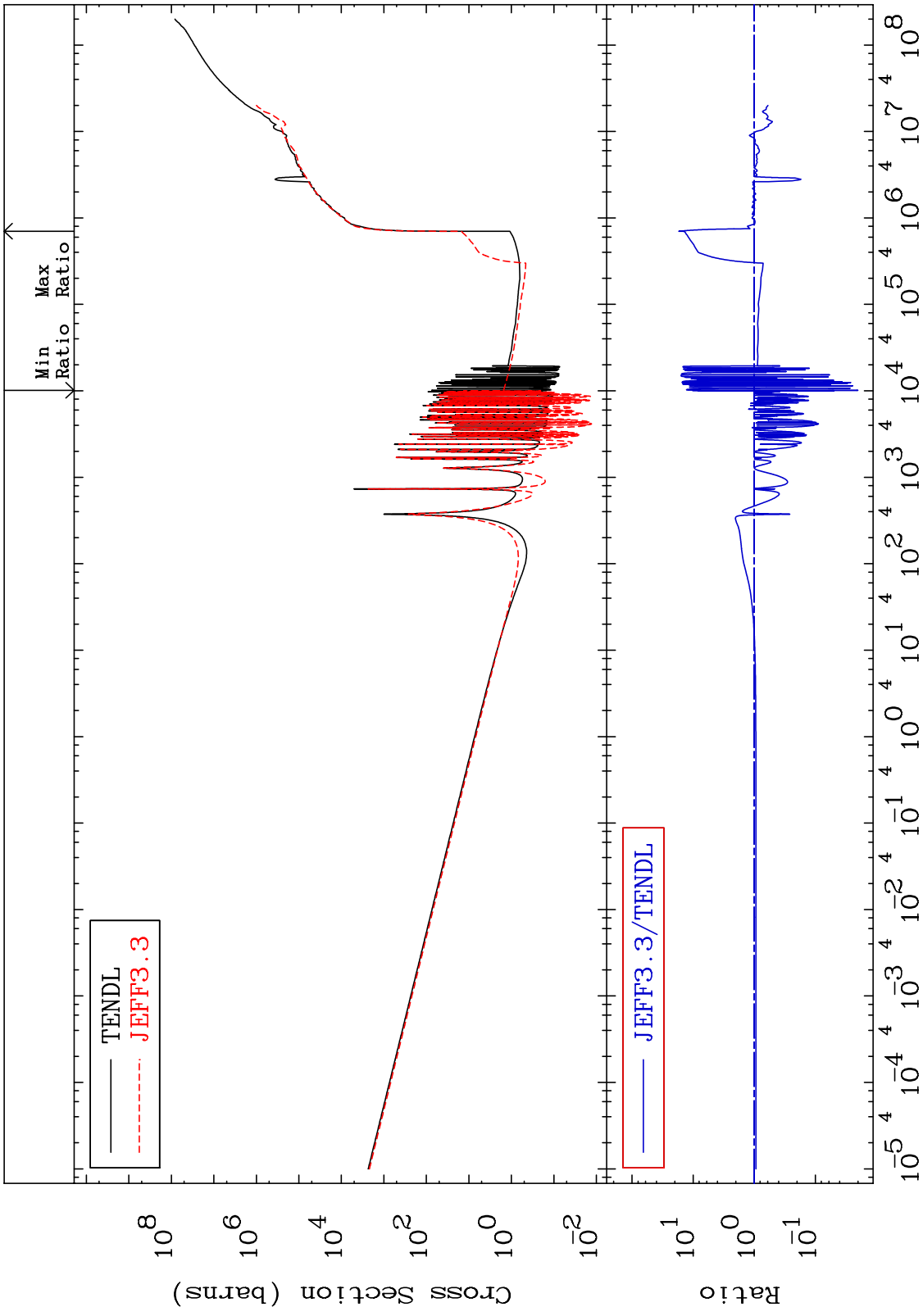
MAT 6031

Kerma elastic
Cross Section

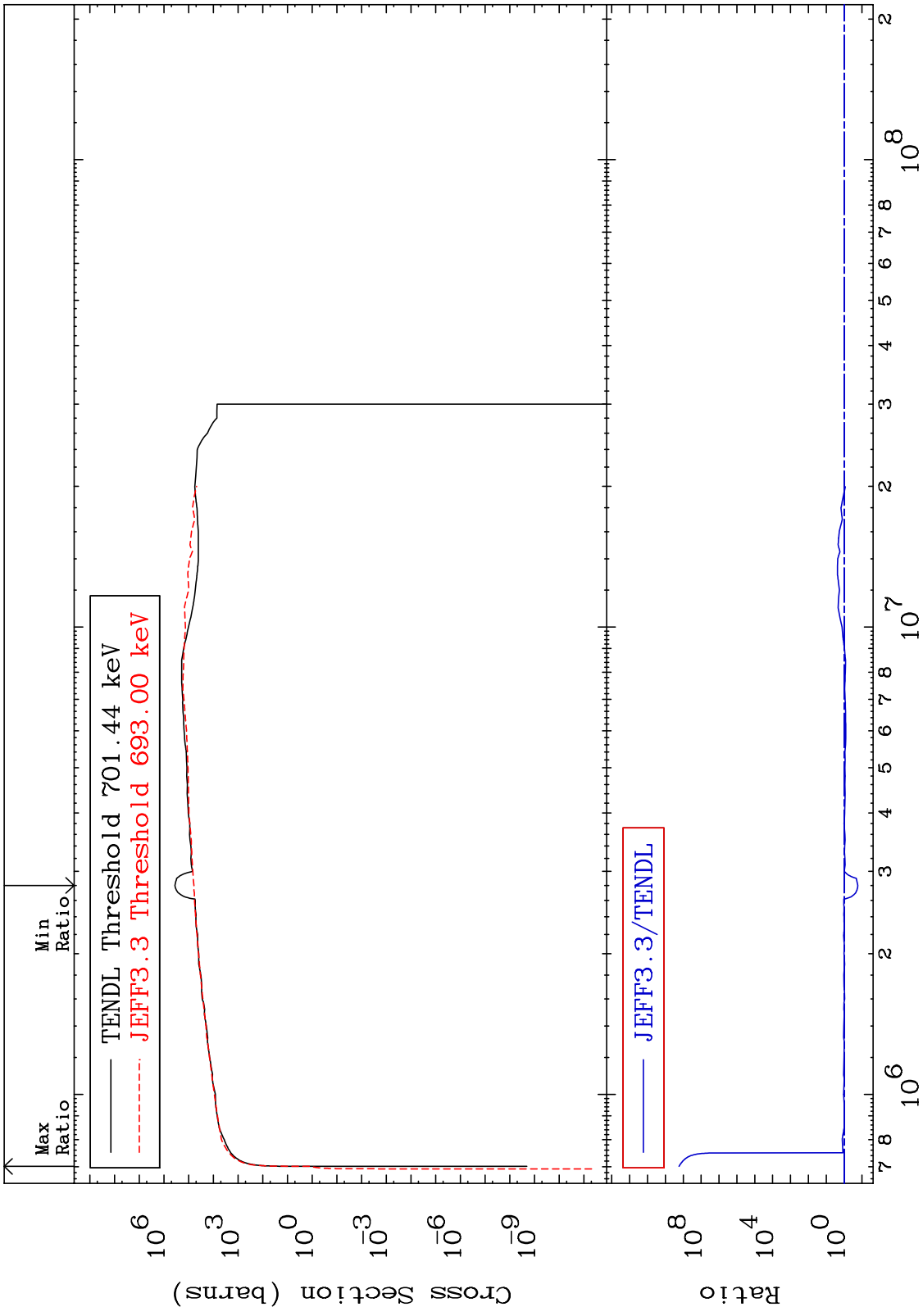
60-Nd-144
-99.96 To 2227. %



MAT 6031 Kerma non-elastic (all but mt2) 60-Nd-144
 Cross Section -97.98 To 1603. %



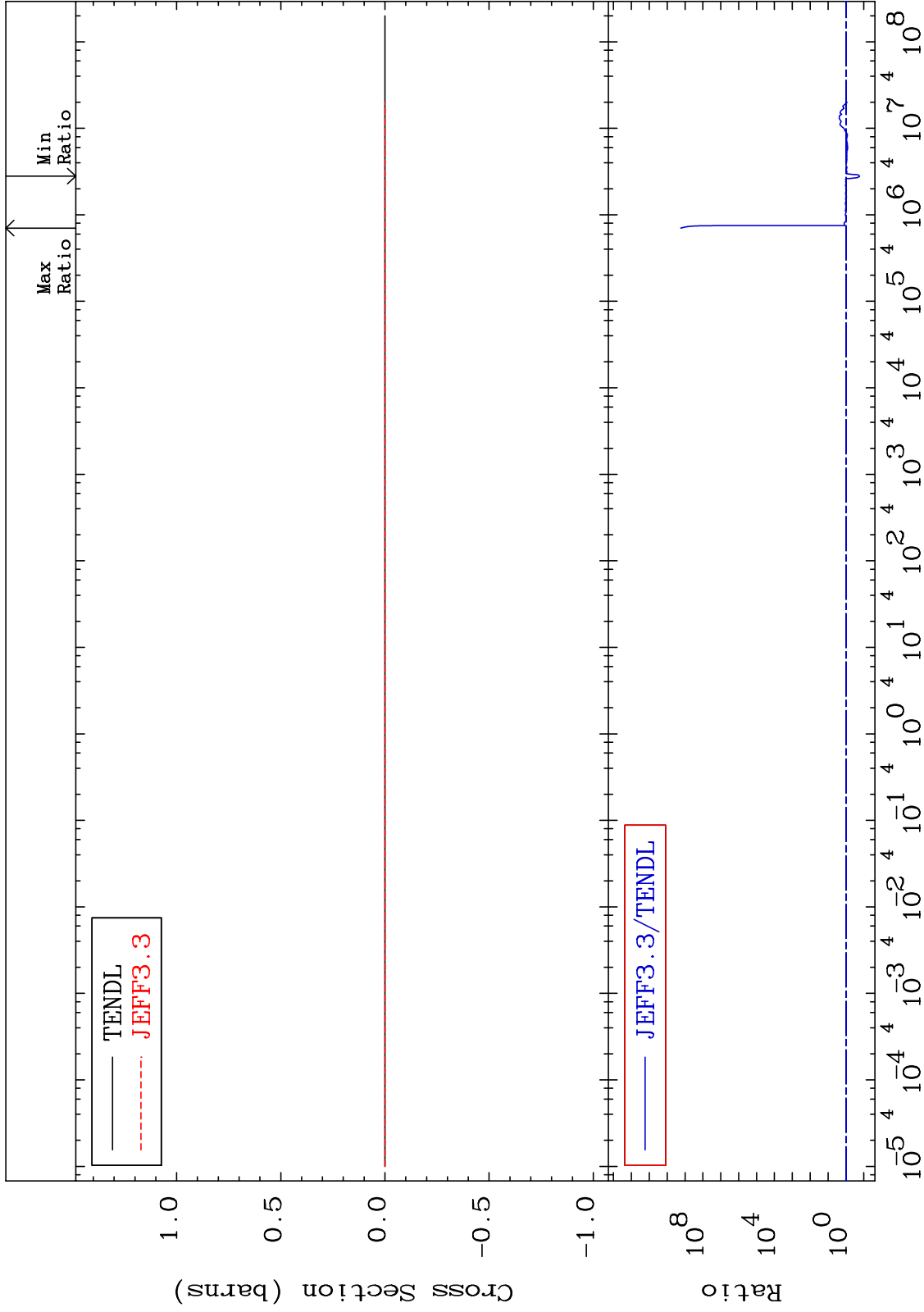
MAT 6031 Kerma inelastic (mt51-91) 60-Nd-144
 -82.84 To 9999. %
 Cross Section



MAT 6031

Kerma fission (mt18 or mt19-20-21-38)
Cross Section

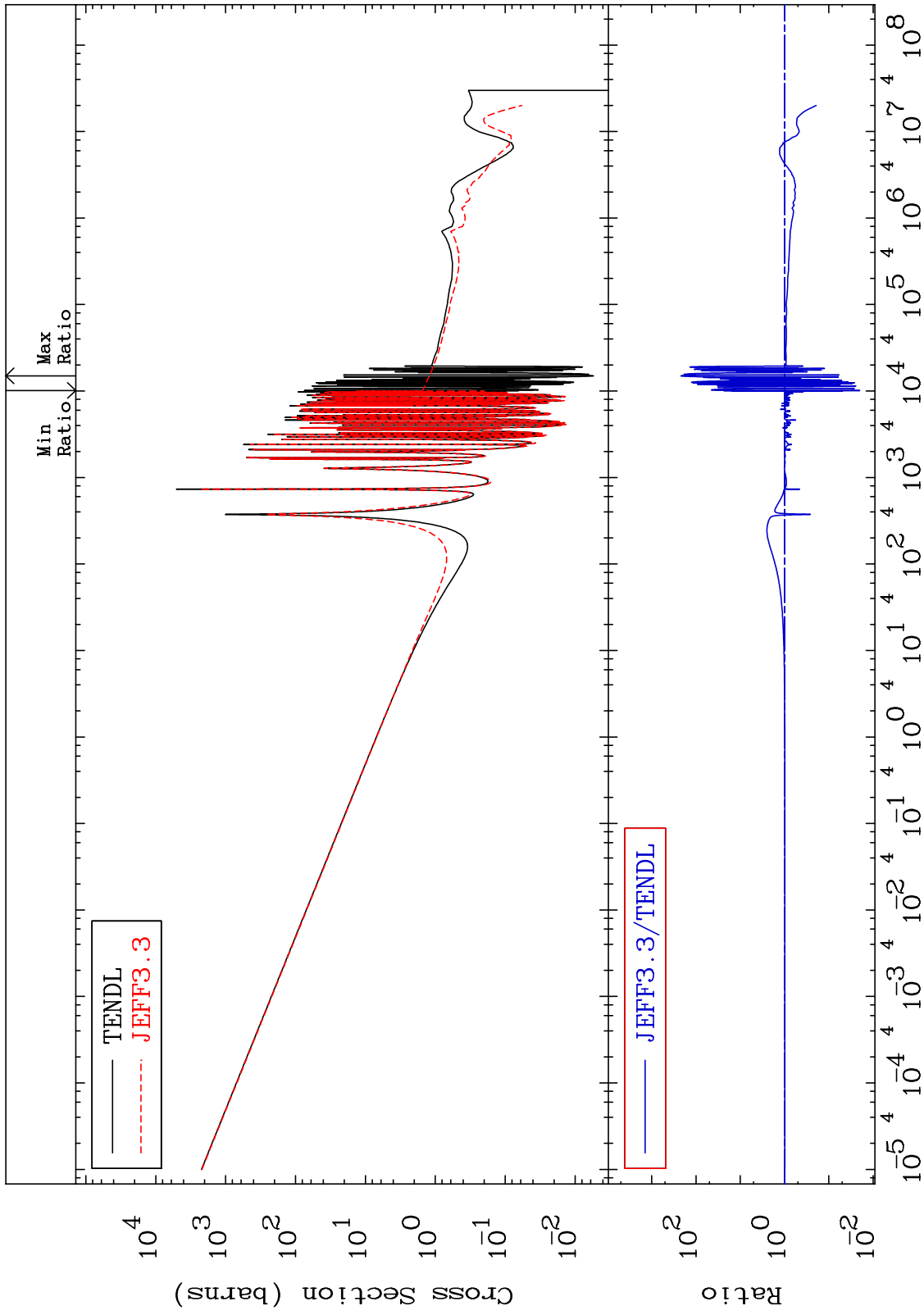
60-Nd-144
-82.84 To 9999. %



MAT 6031

Kerma capture (mt102)
Cross Section

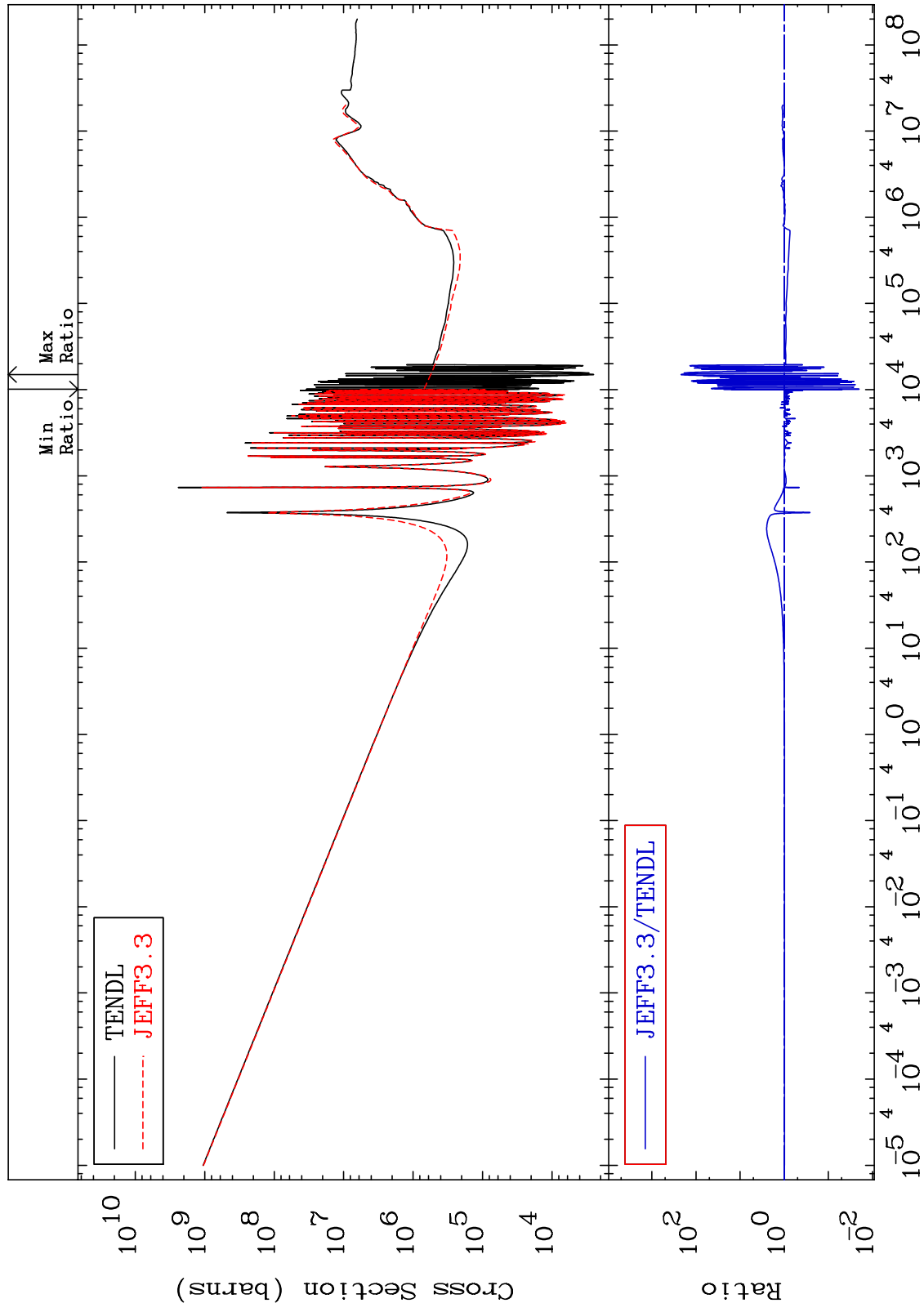
60-Nd-144
-97.98 To 9999. %



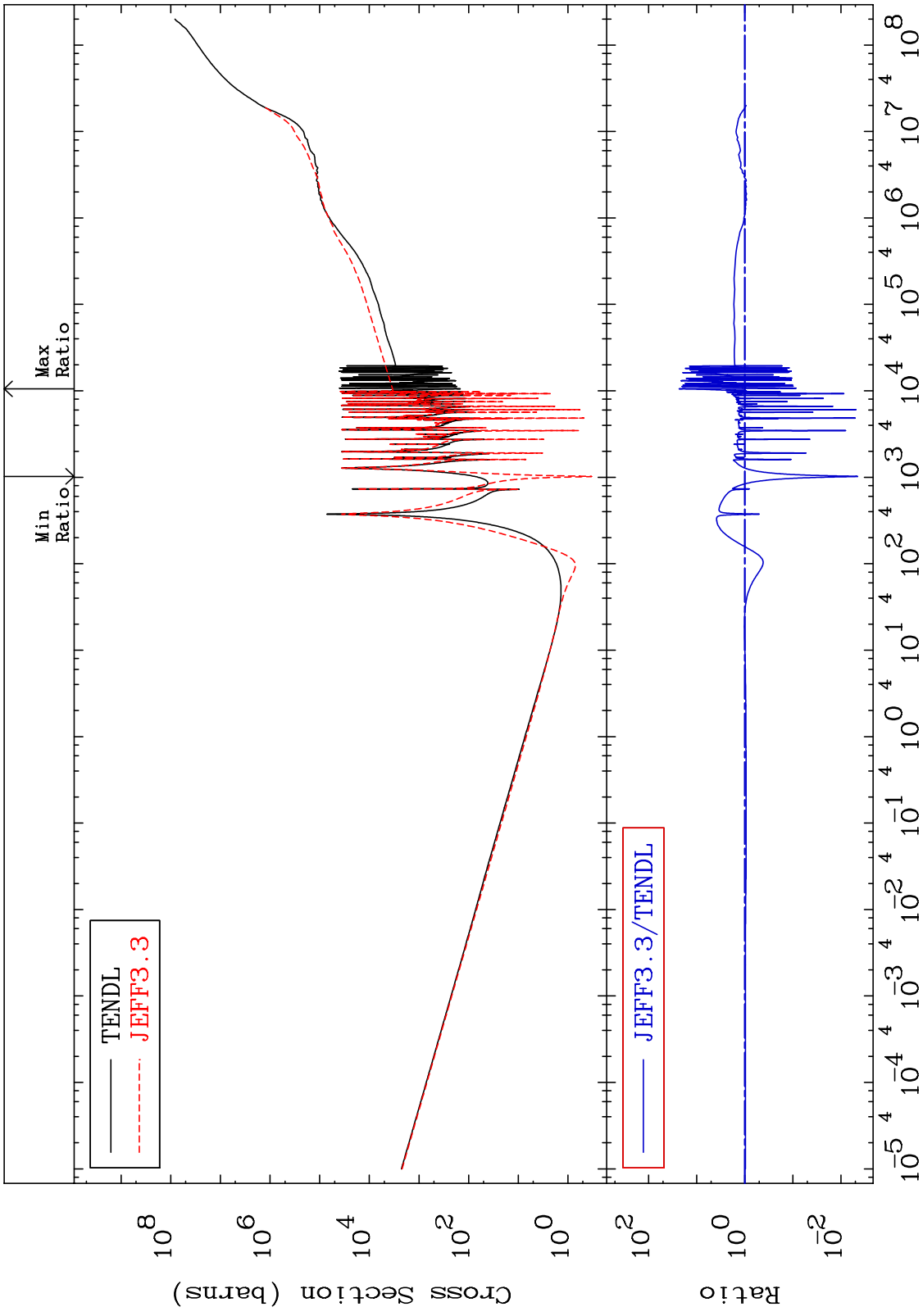
MAT 6031

Total photon (eV-barns)
Cross Section

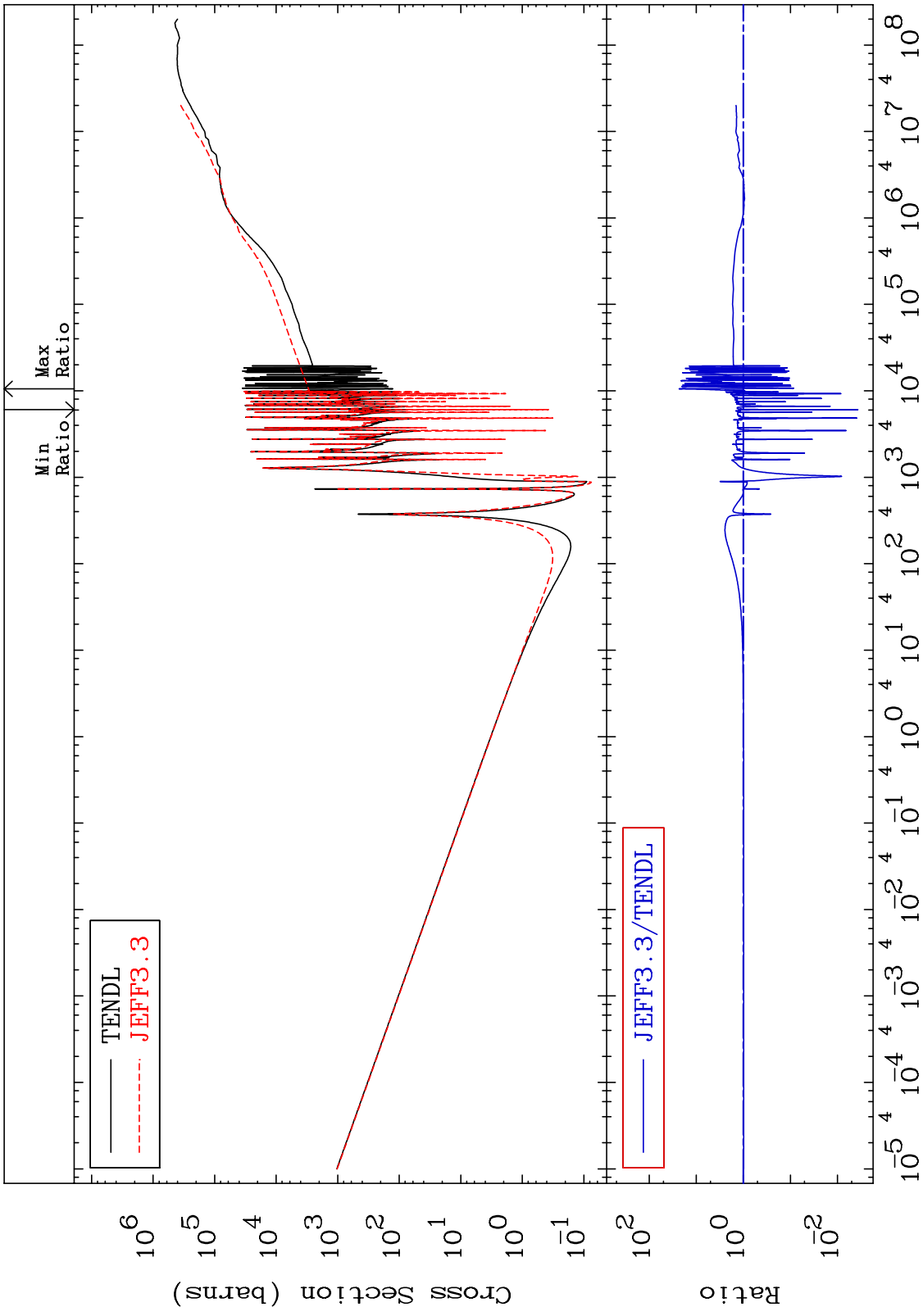
60-Nd-144
-97.98 To 9999. %



MAT 6031 Total kinematic kerma (high limit) 60-Nd-144
 Cross Section -99.56 To 2225. %



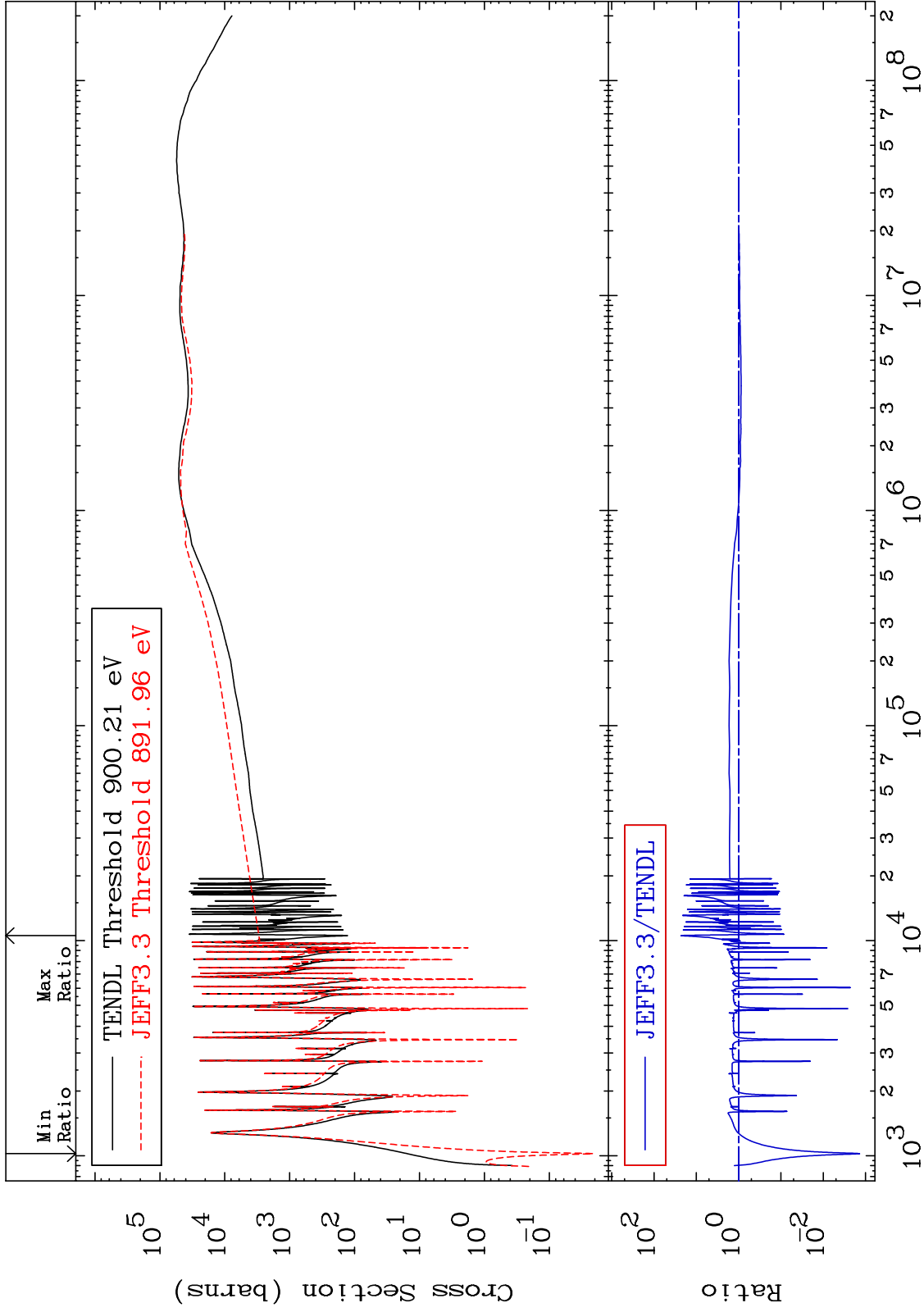
MAT 6031 Dpa total (eV-barns) 60-Nd-144
 Cross Section -99.63 To 2225. %



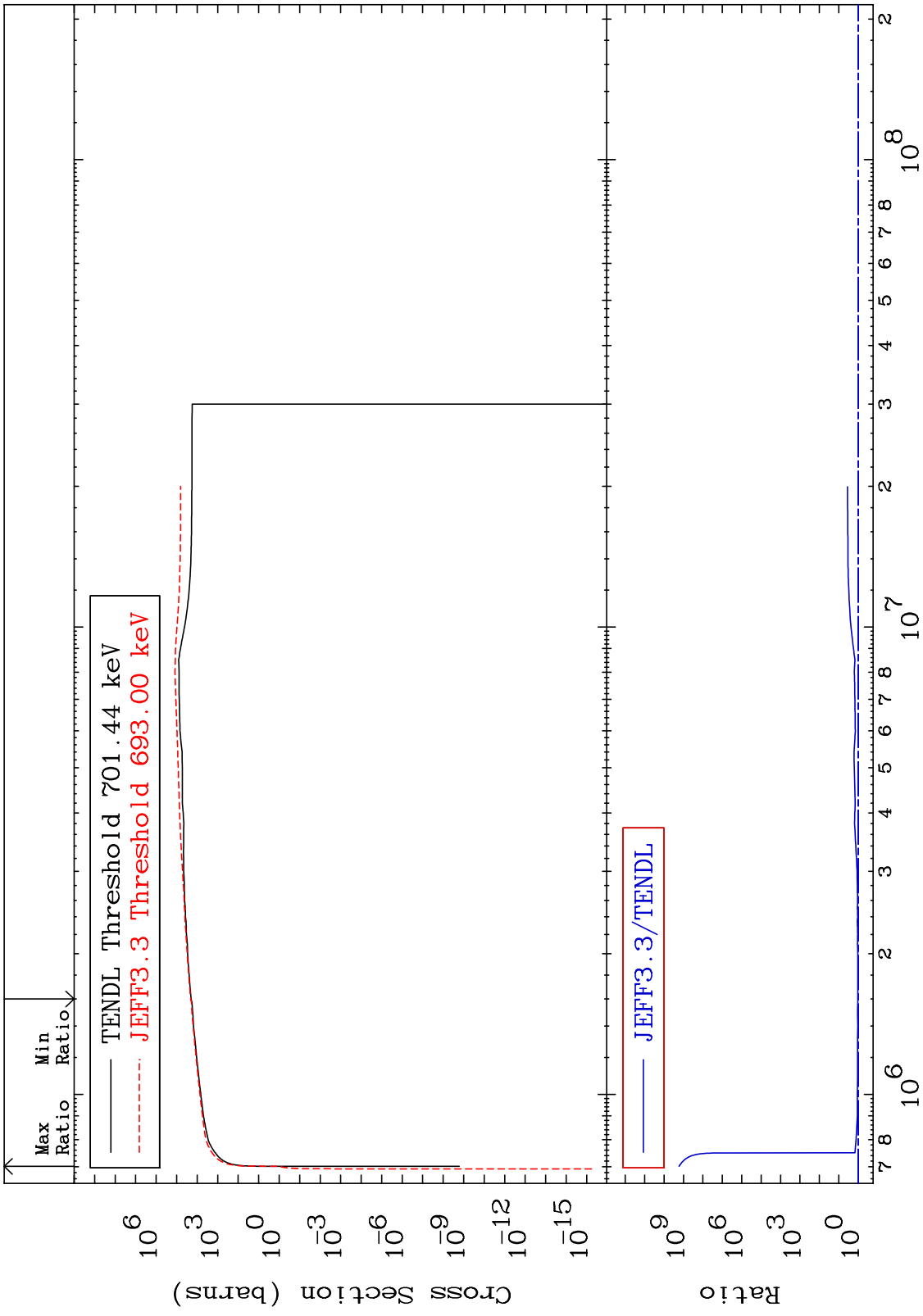
MAT 6031

Dpa elastic (mt2)
Cross Section

60-Nd-144
-99.86 To 2225. %



MAT 6031 Dpa inelastic (mt51-91) 60-Nd-144
 Cross Section 3.758 To 9999. %



MAT 6031

Dpa disappearance (mt102 -120)
Cross Section

60-Nd-144
-97.98 To 9999. %

