

Program Complot
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

U.S.A.

Tele: 925-443-1911

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

Press Mouse Button to Start

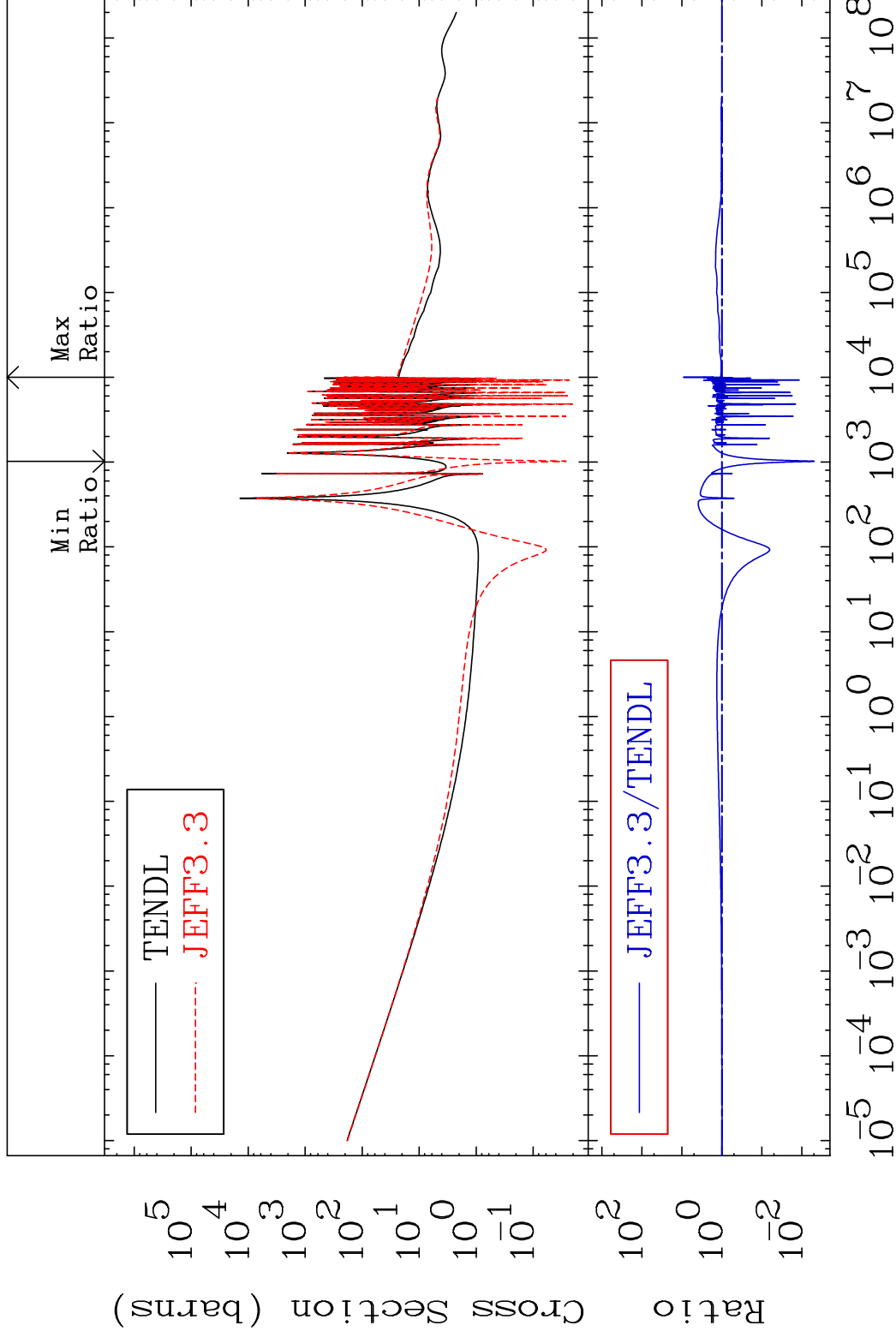
MAT 6031

Total

60-Nd-144

Cross Section

-99.51 To 803.2 %



1

Incident Energy (eV)

60-Nd-144

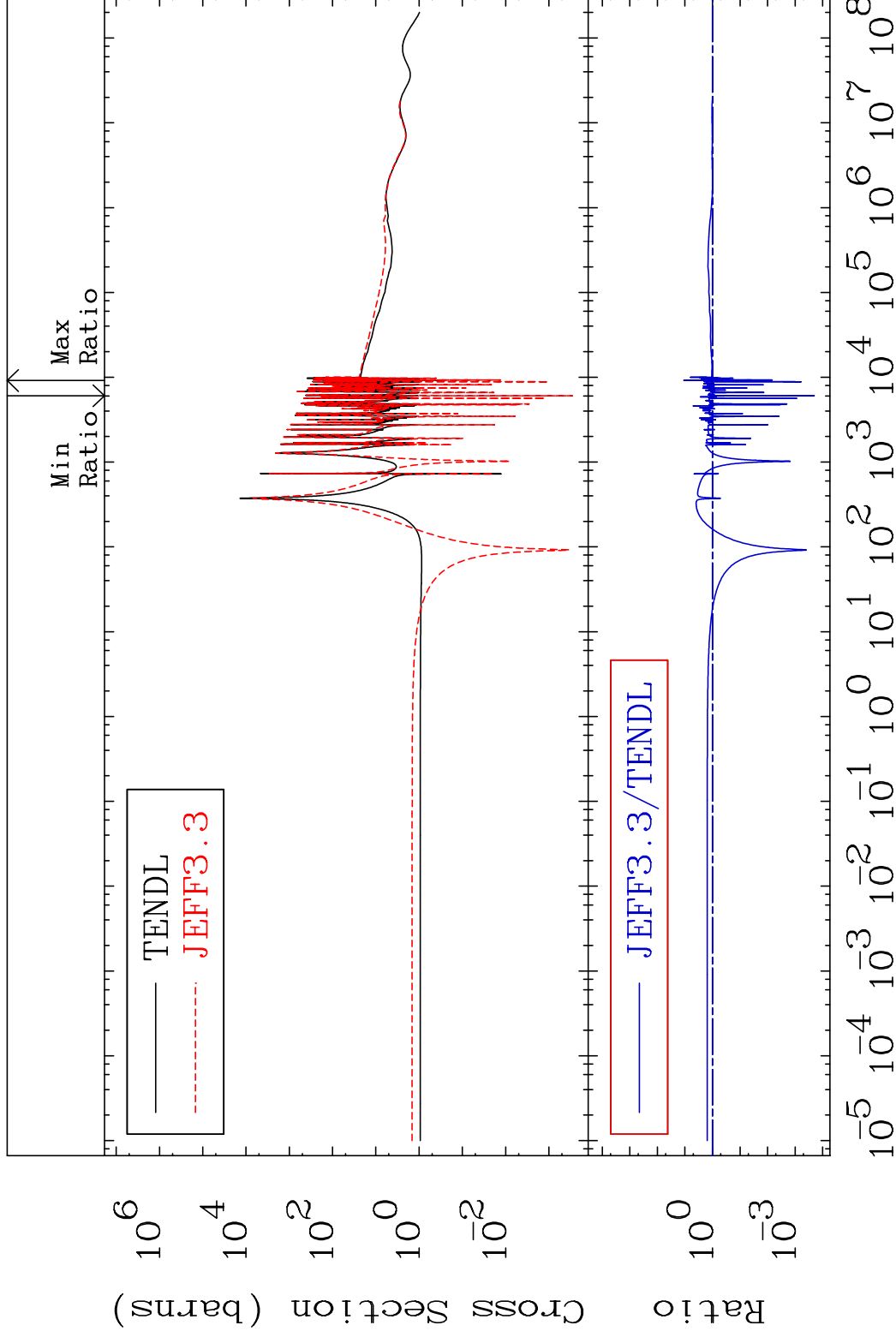
MAT 6031

Elastic

60-Nd-144

Cross Section

-99.98 To 1012. %



2

Incident Energy (eV)

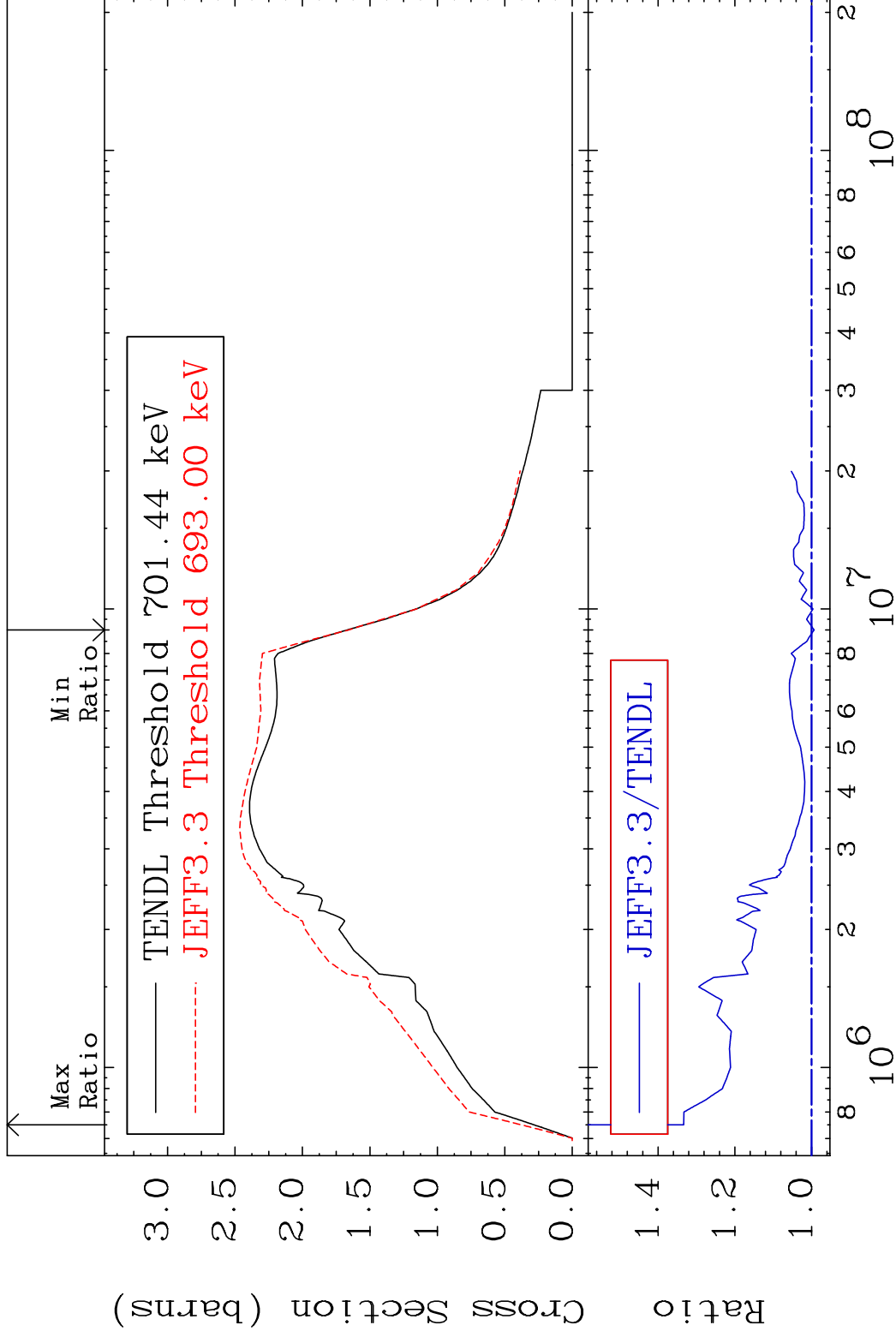
60-Nd-144

MAT 6031

Inelastic

60-Nd-144

Cross Section -0.666 To 33.33 %



3

Incident Energy (eV)

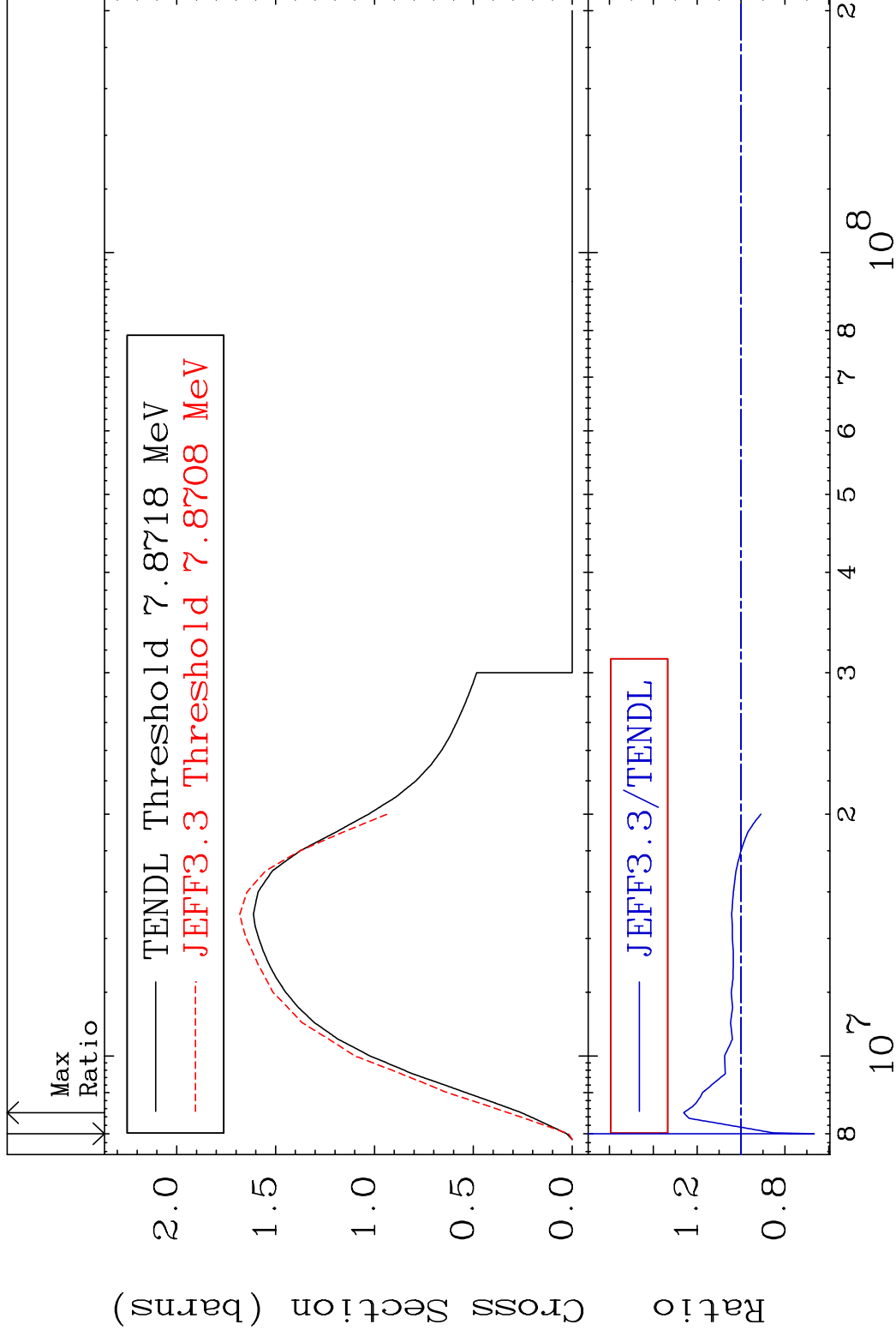
60-Nd-144

MAT 6031

(n,2n)

60-Nd-144

Cross Section -33.29 To 26.15 %



4

Incident Energy (eV)

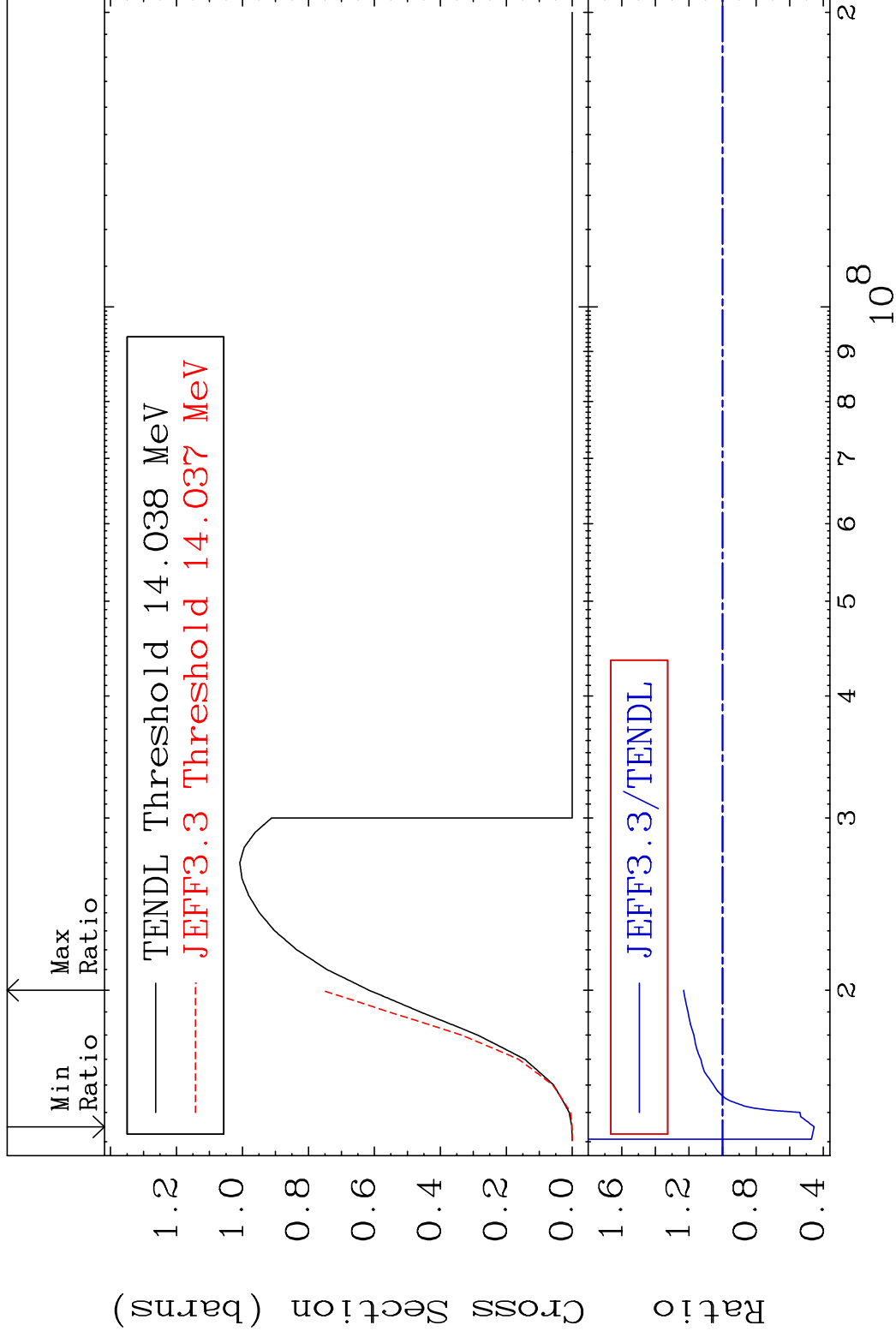
60-Nd-144

MAT 6031

(n,3n)

60-Nd-144

Cross Section -54.56 To 23.13 %



5

Incident Energy (eV)

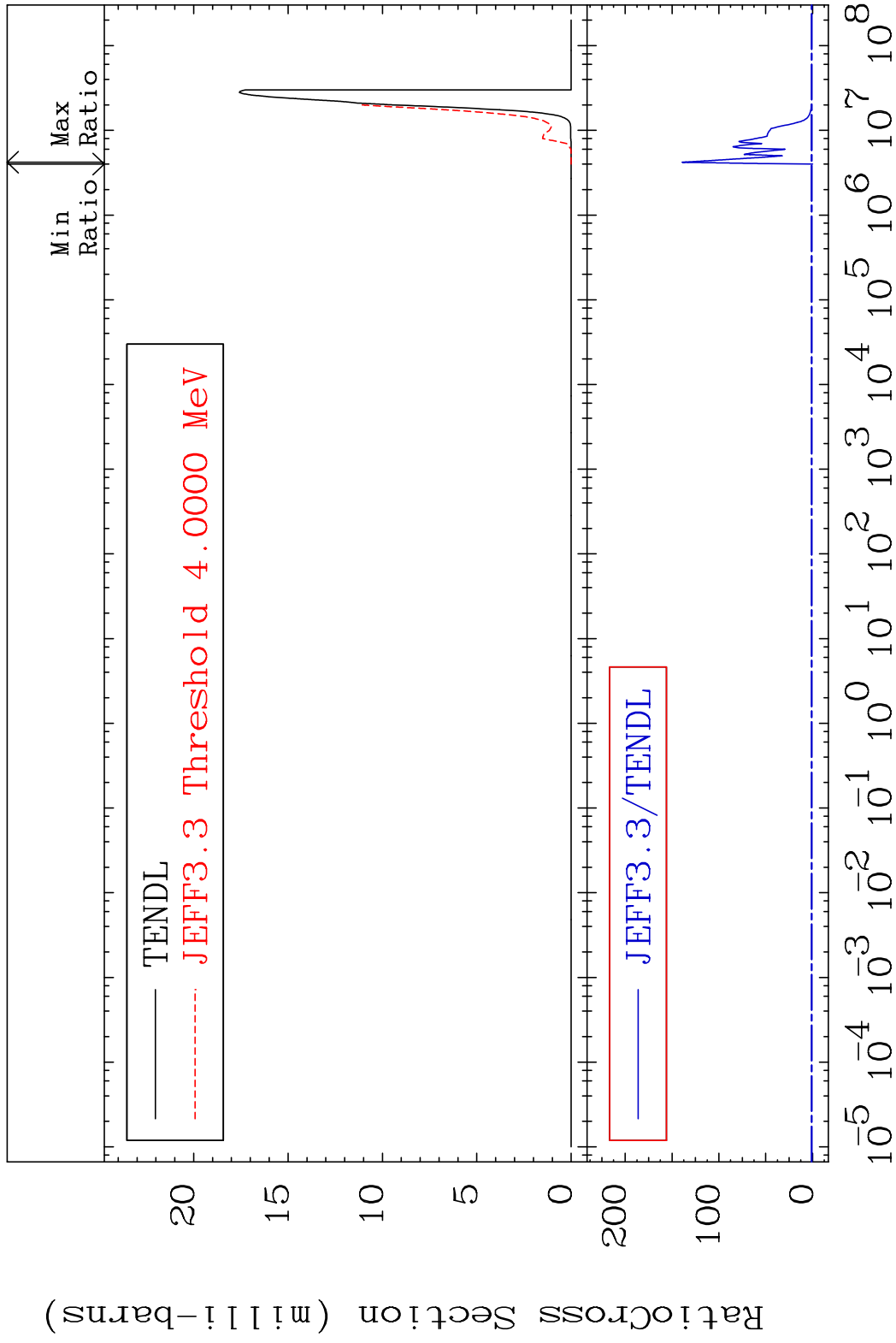
60-Nd-144

MAT 6031

(n, n') α

60-Nd-144

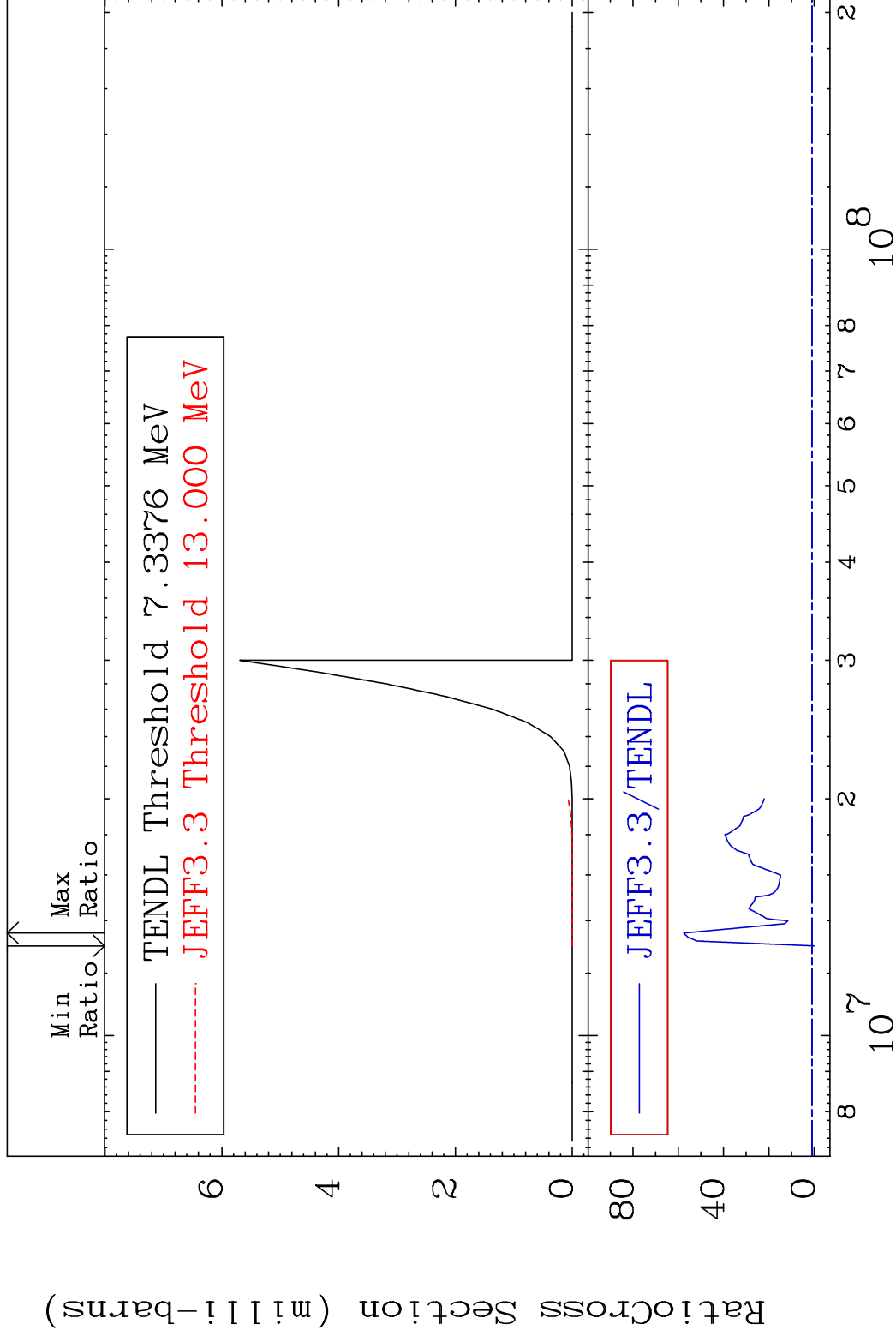
Cross Section -100.0 To 9999. %



MAT 6031

(n,2n) α 60-Nd-144

Cross Section -100.0 To 5661. %



7

Incident Energy (eV)

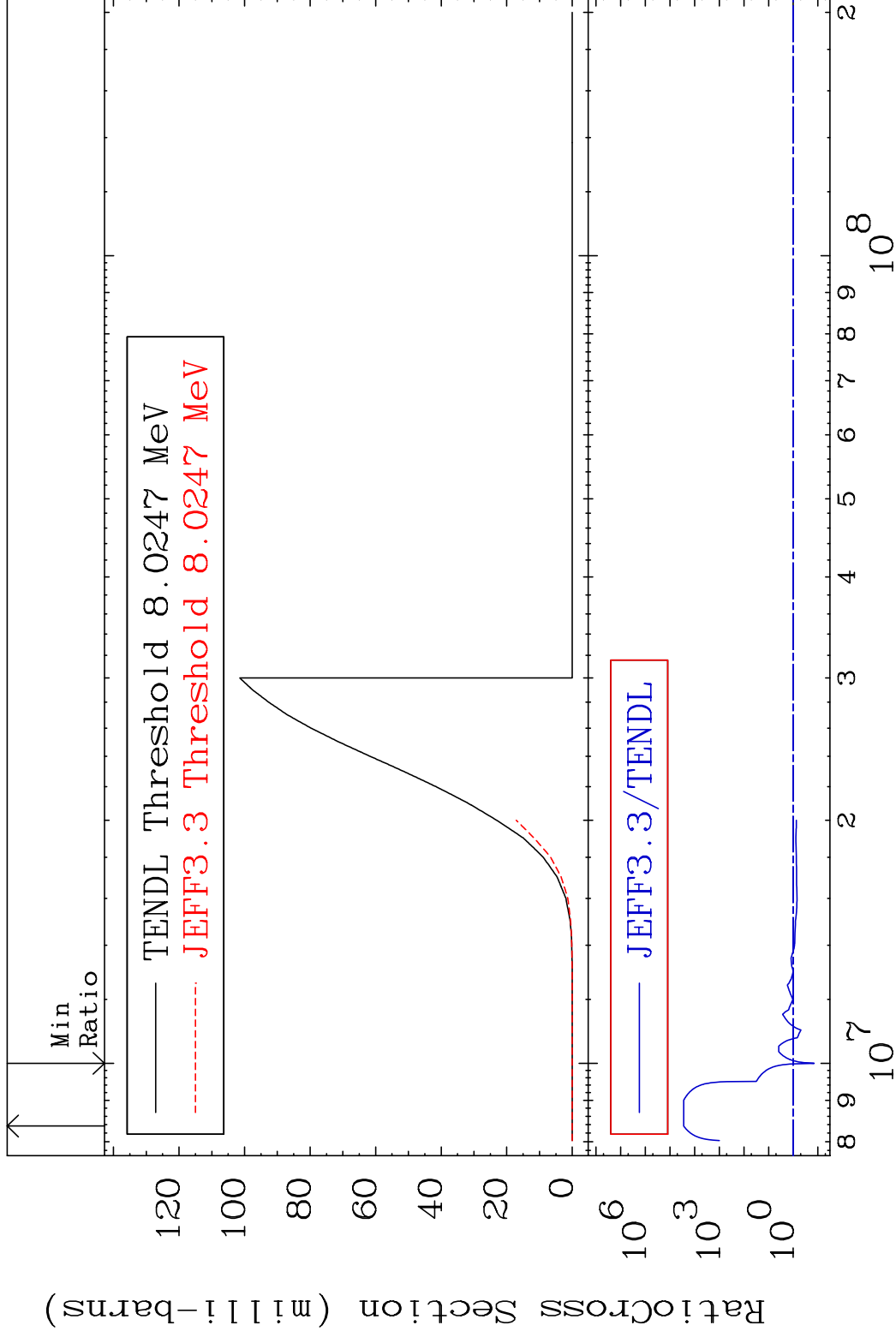
60-Nd-144

MAT 6031

(n, n') p

60-Nd-144

Cross Section -85.77 To 9999. %

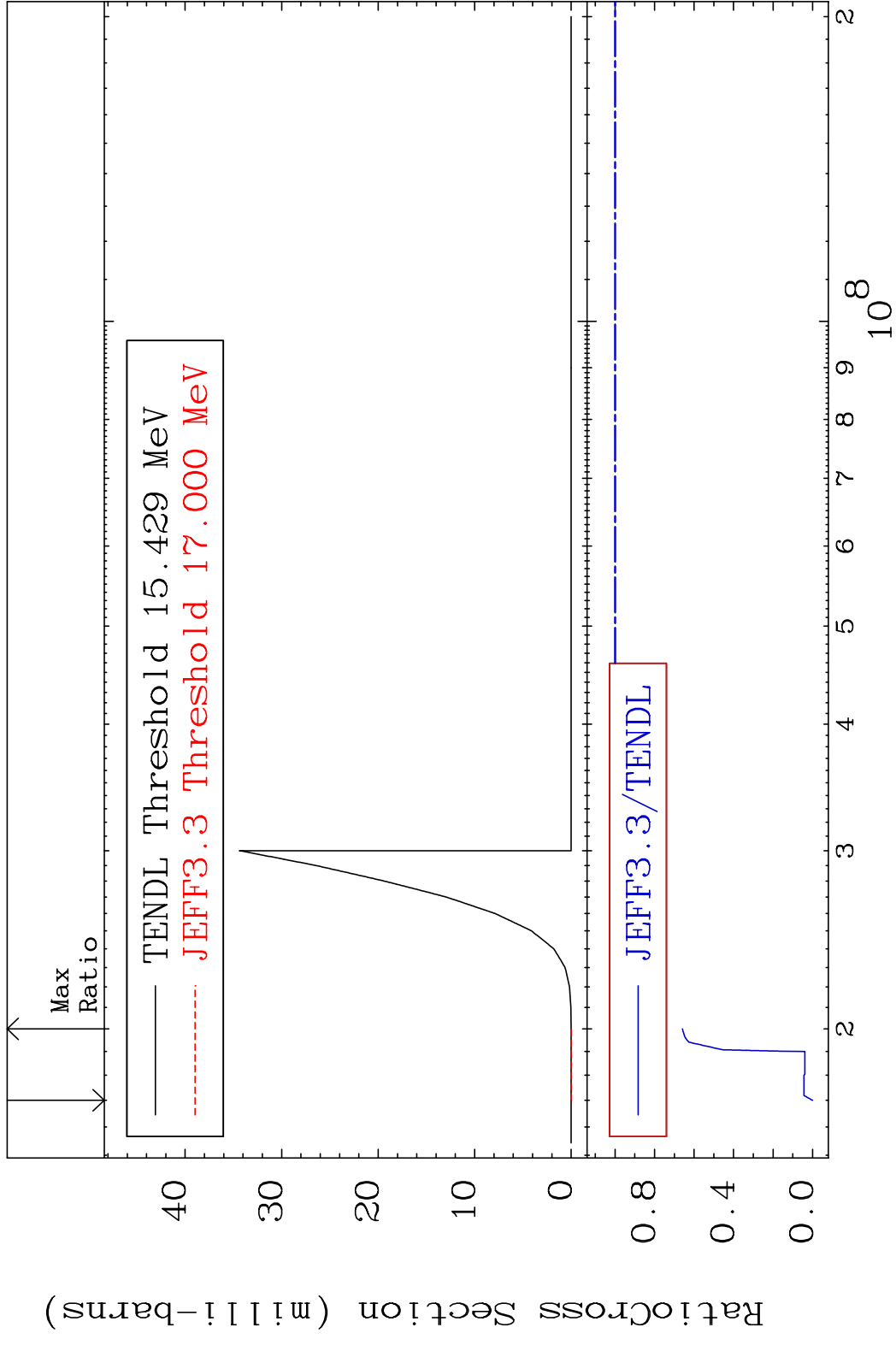


8

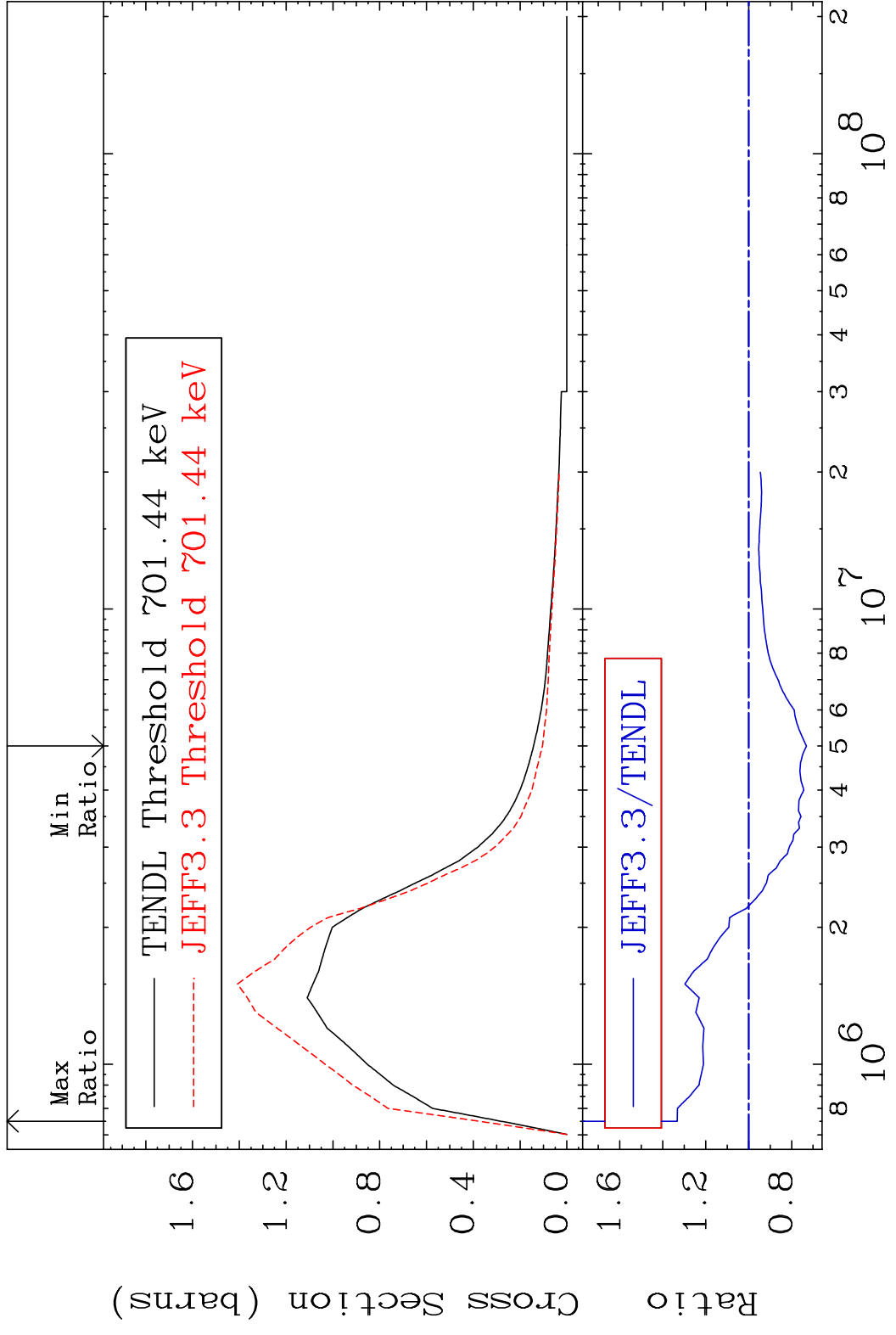
Incident Energy (eV)

60-Nd-144

MAT 6031 (n,2n) p 60-Nd-144
 Cross Section -100.0 To -34.08%

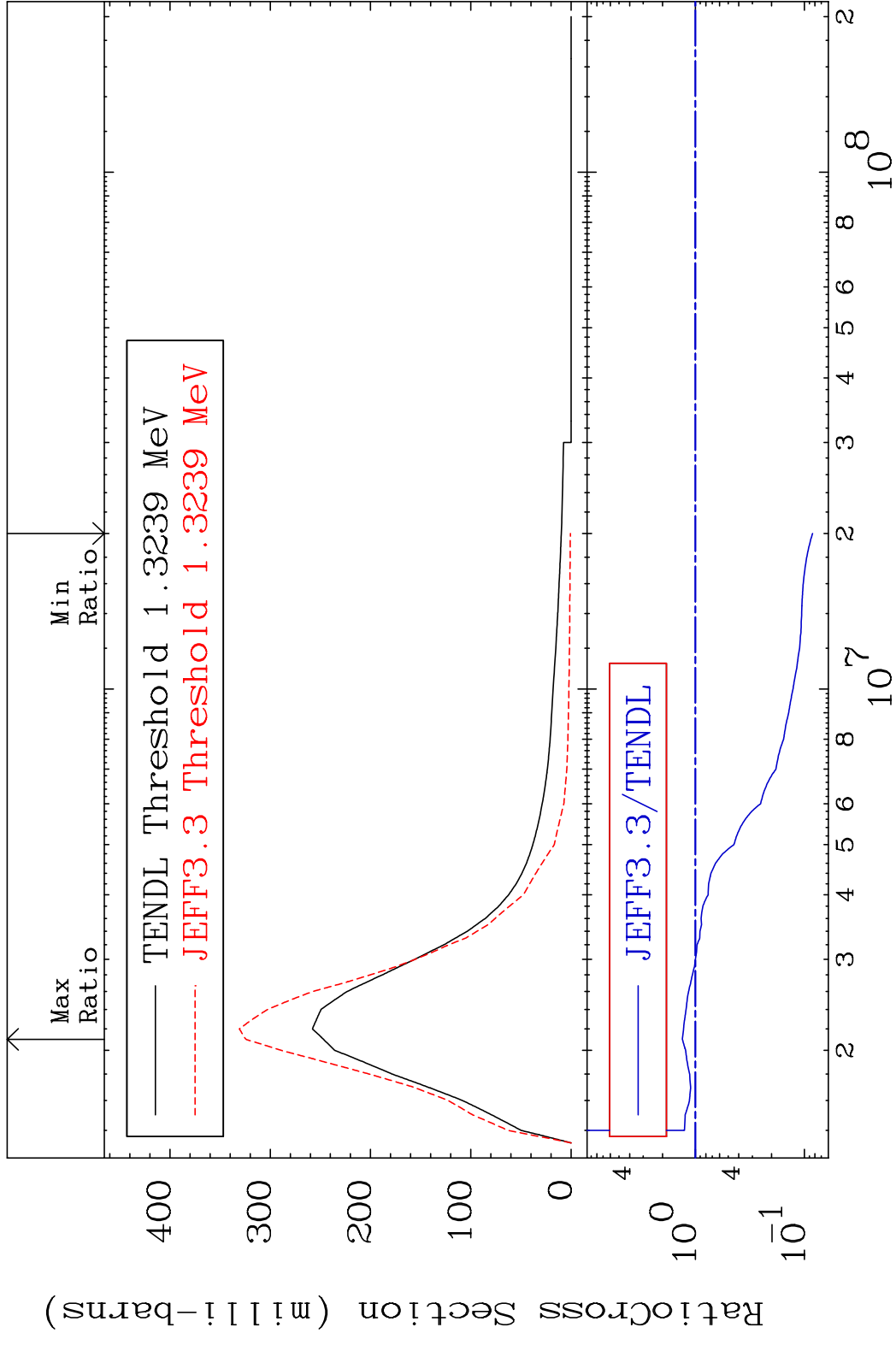


MAT 6031 MT= 51 (n,n') Level 60-Nd-144
 Cross Section -26.88 To 33.29 %

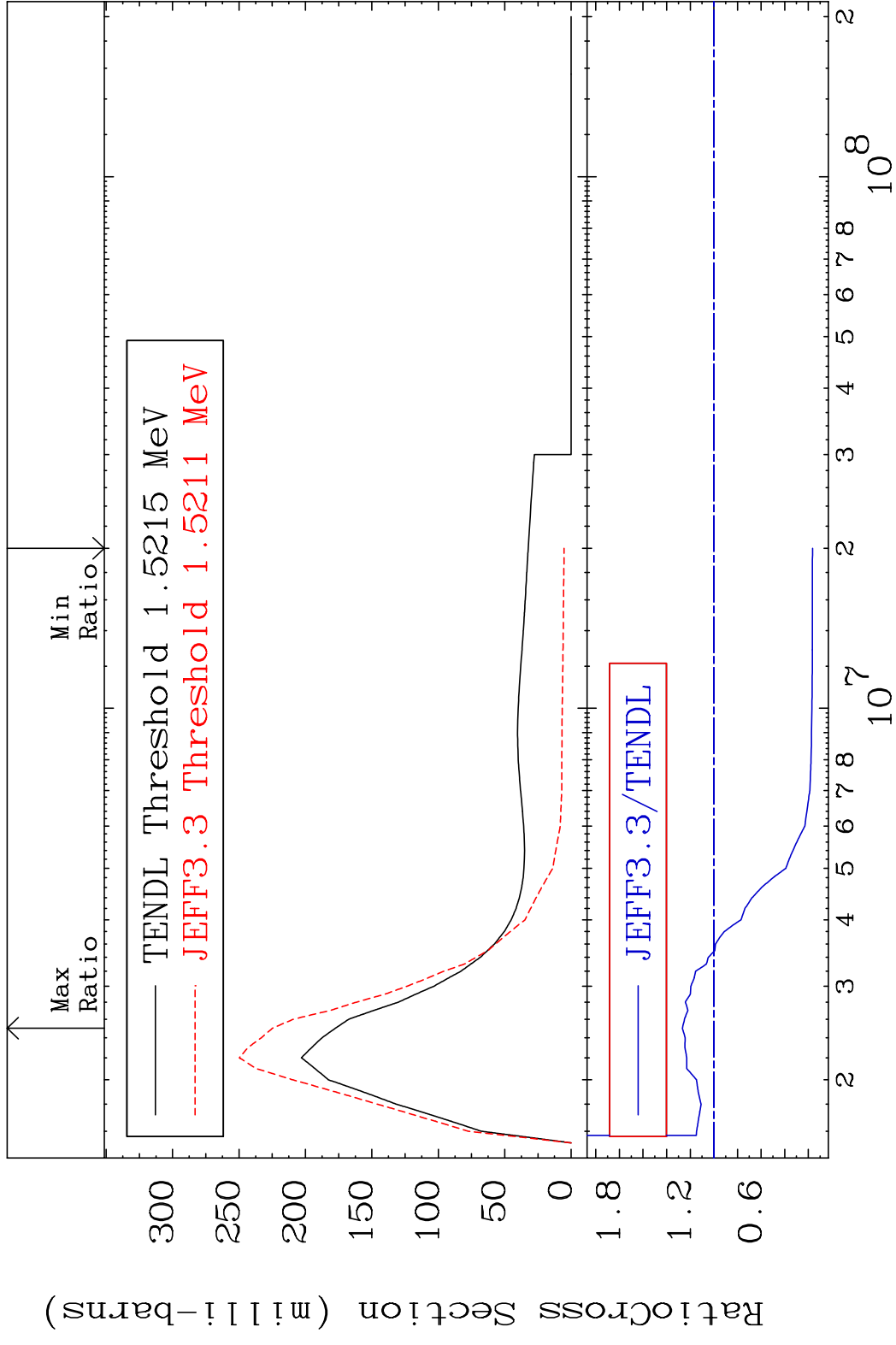


10 Incident Energy (eV) 60-Nd-144

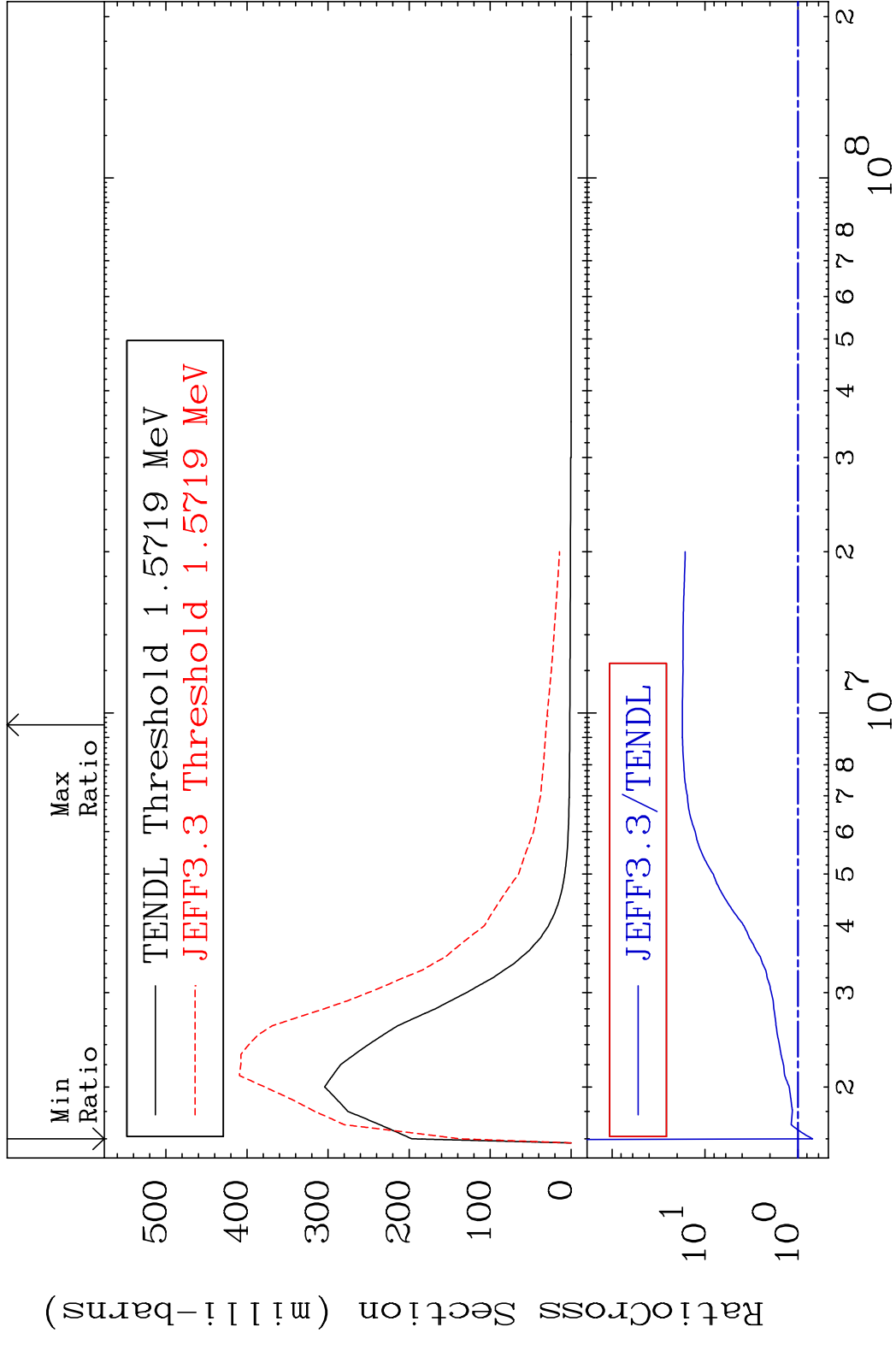
MAT 6031 MT= 52 (n, n') Level 60-Nd-144
 Cross Section -91.58 To 31.39 %



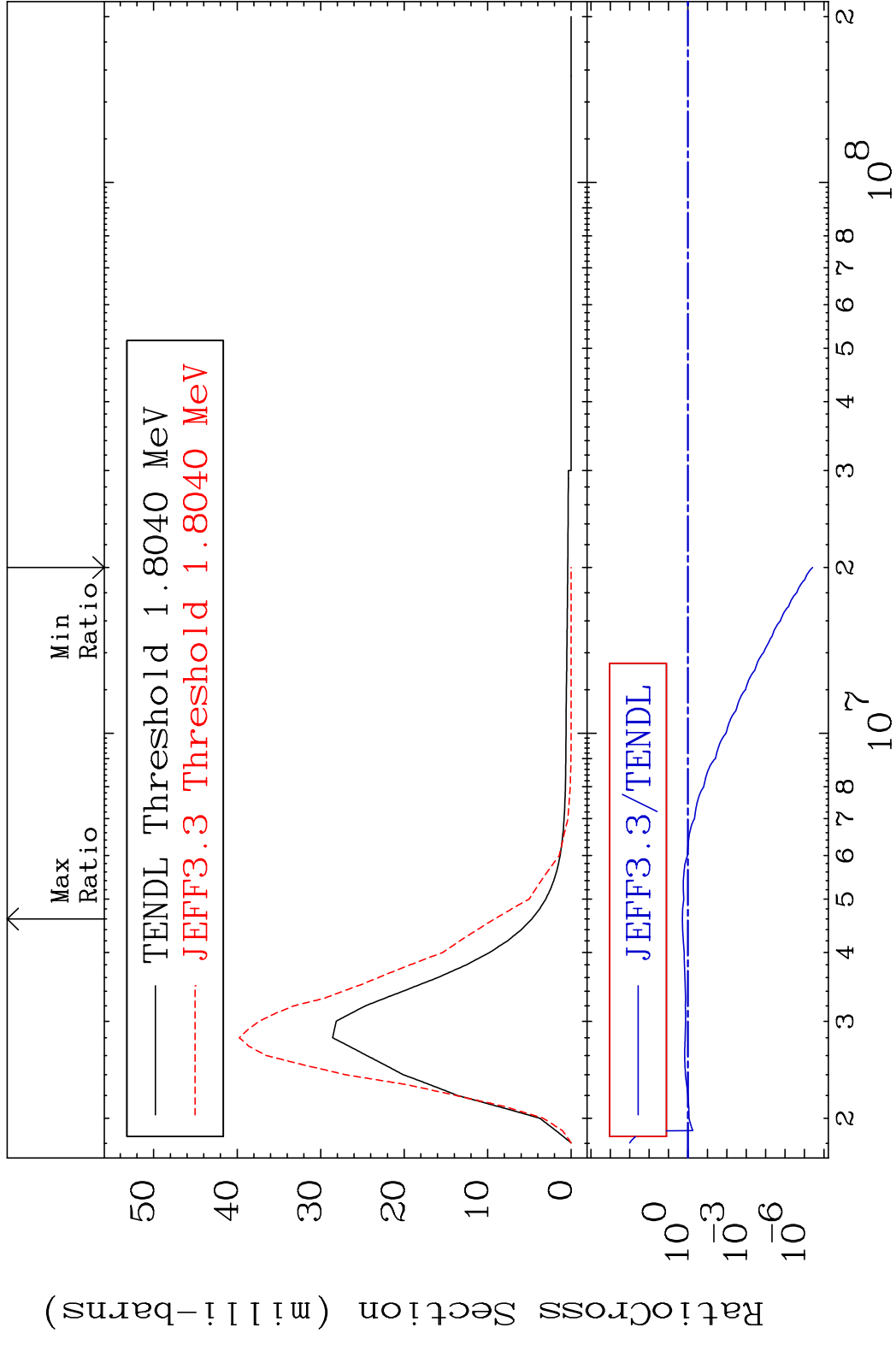
MAT 6031 MT= 53 (n, n') Level 60-Nd-144
 Cross Section -83.59 To 26.70 %



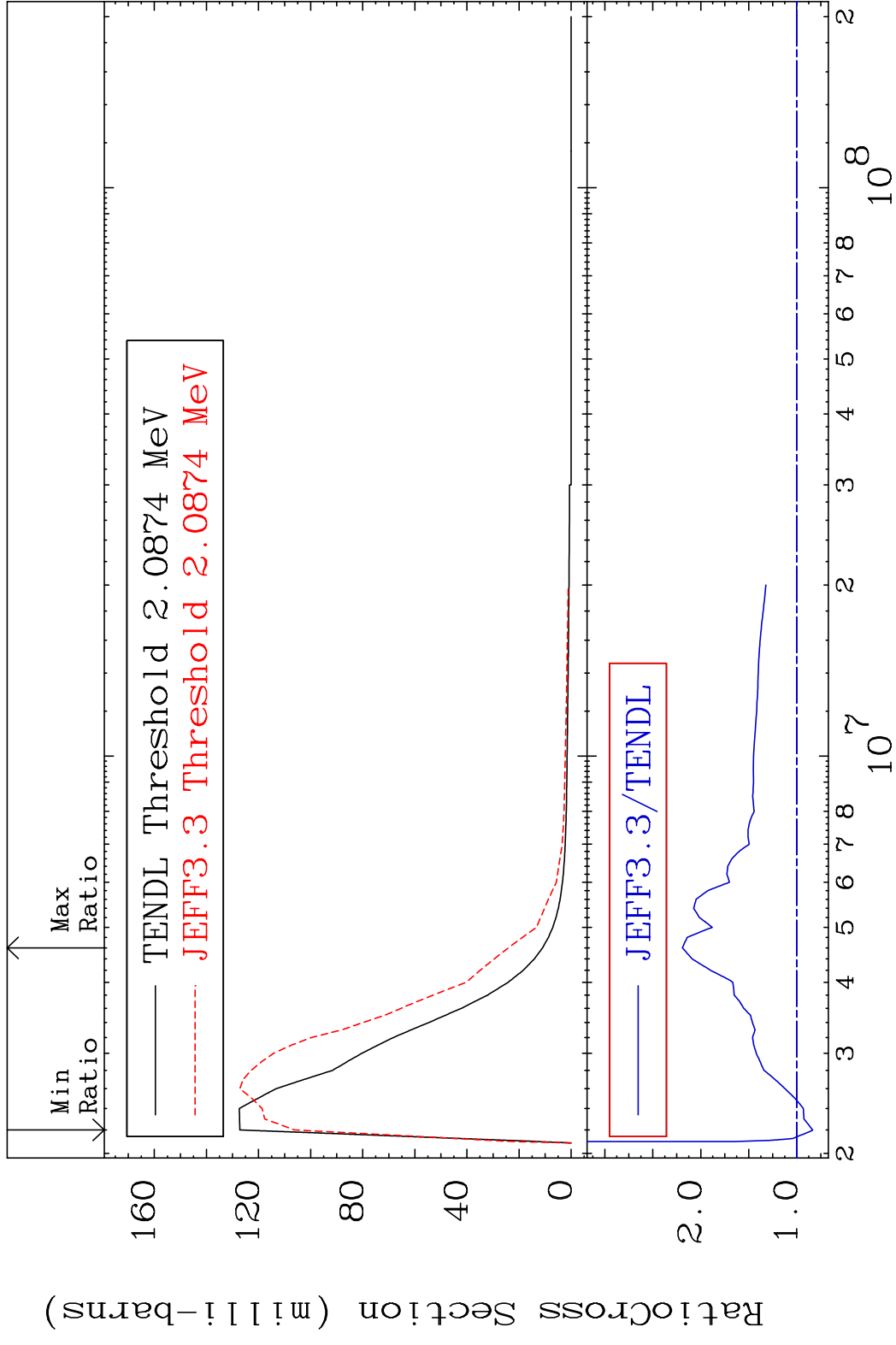
MAT 6031 MT= 54 (n,n') Level 60-Nd-144
 Cross Section -30.28 To 1656. %



MAT 6031 MT= 55 (n, n') Level 60-Nd-144
 Cross Section -100.0 To 94.57 %

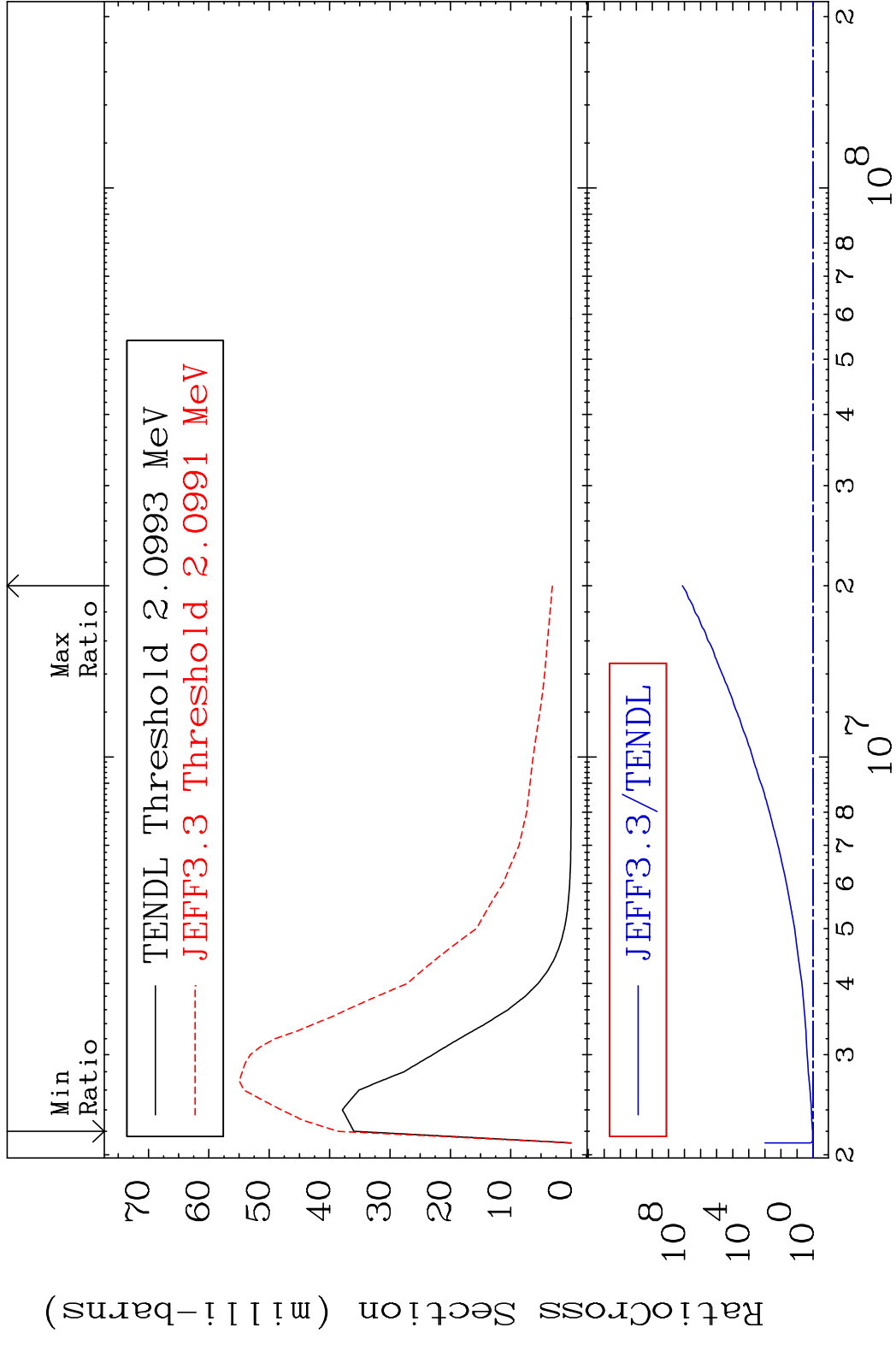


MAT 6031 MT= 56 (n,n') Level 60-Nd-144
 Cross Section -16.50 To 119.2 %

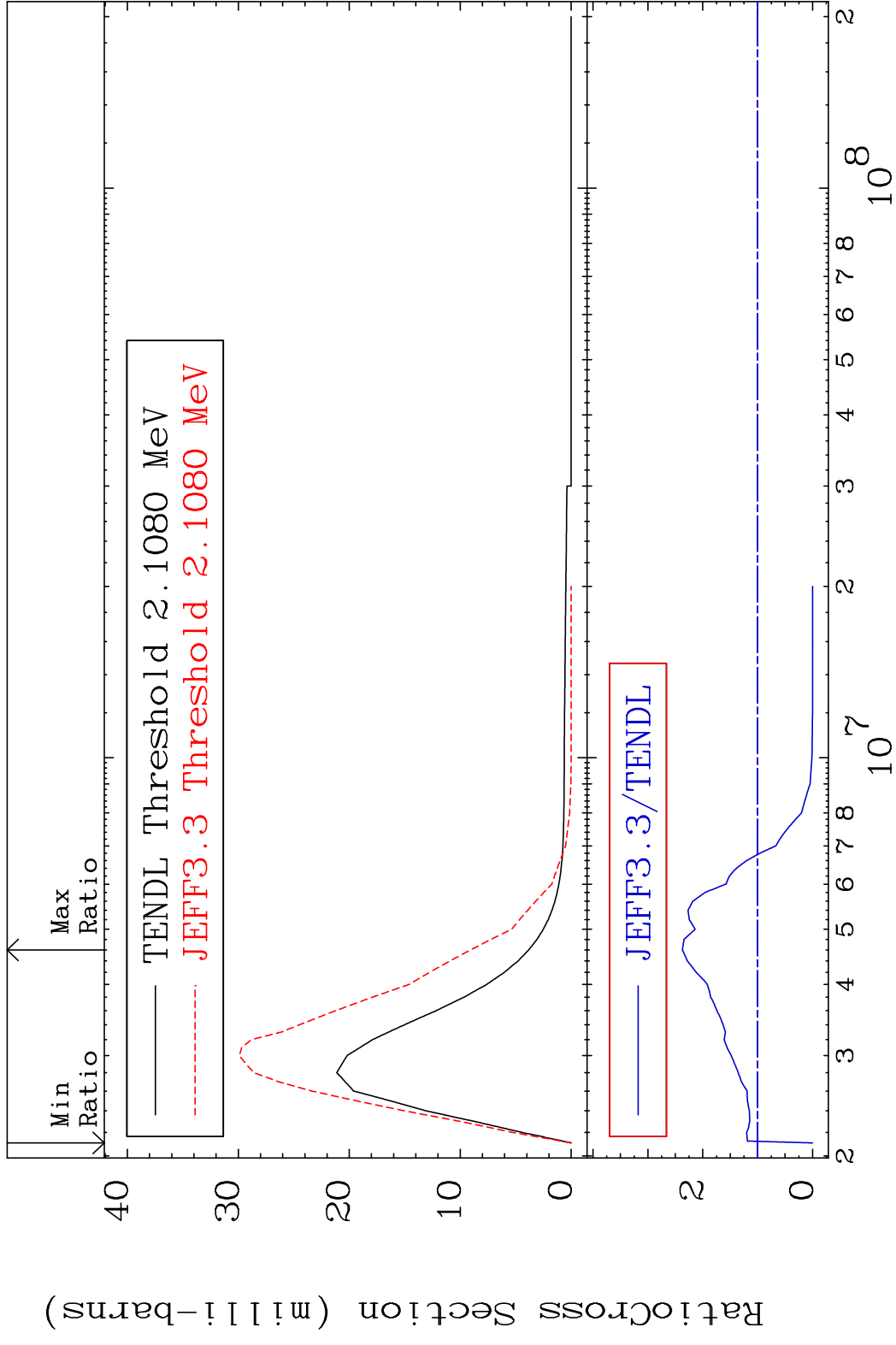


15 Incident Energy (eV) 60-Nd-144

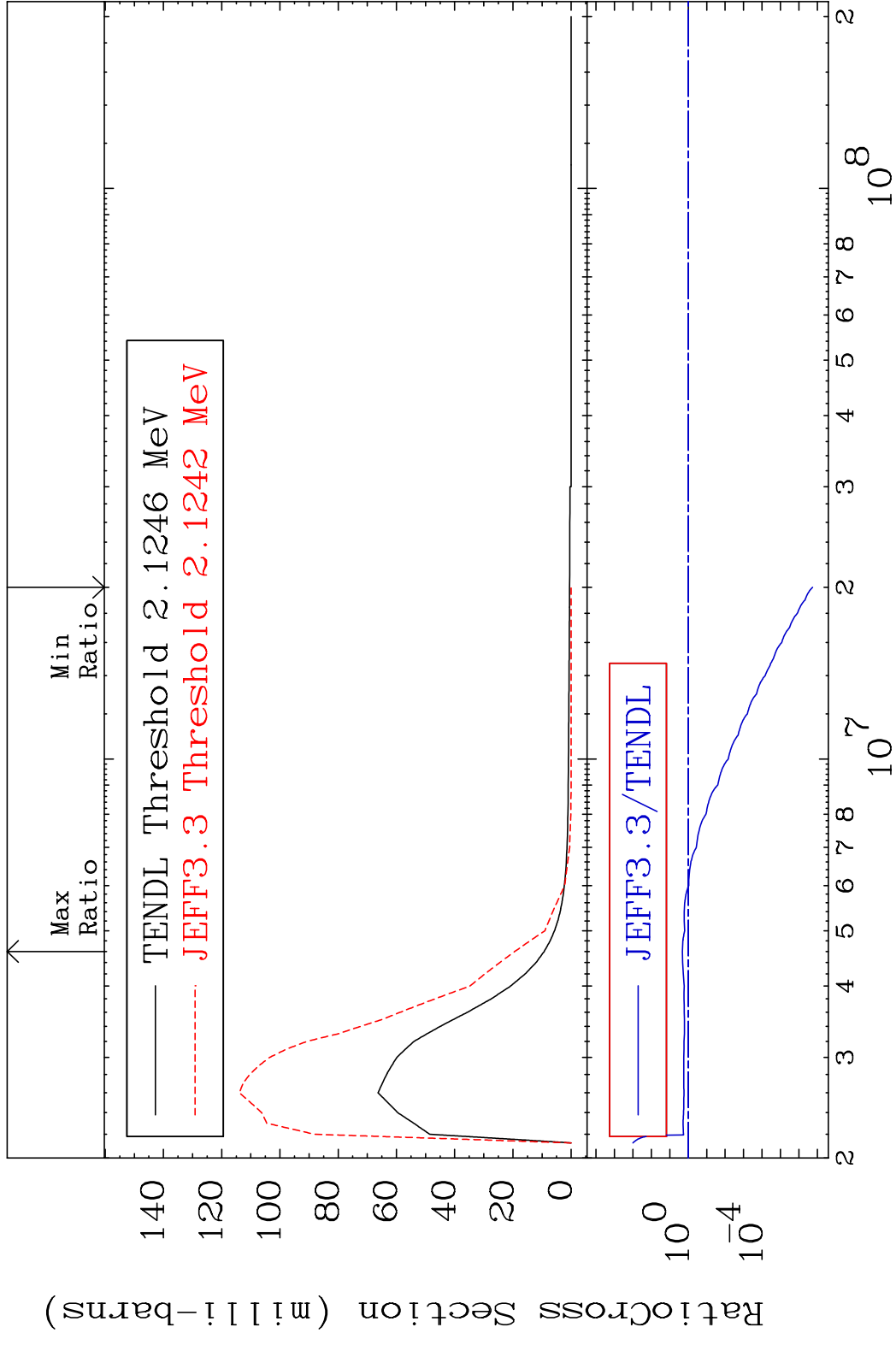
MAT 6031 MT= 57 (n, n') Level 60-Nd-144
 Cross Section 7.437 To 9999. %



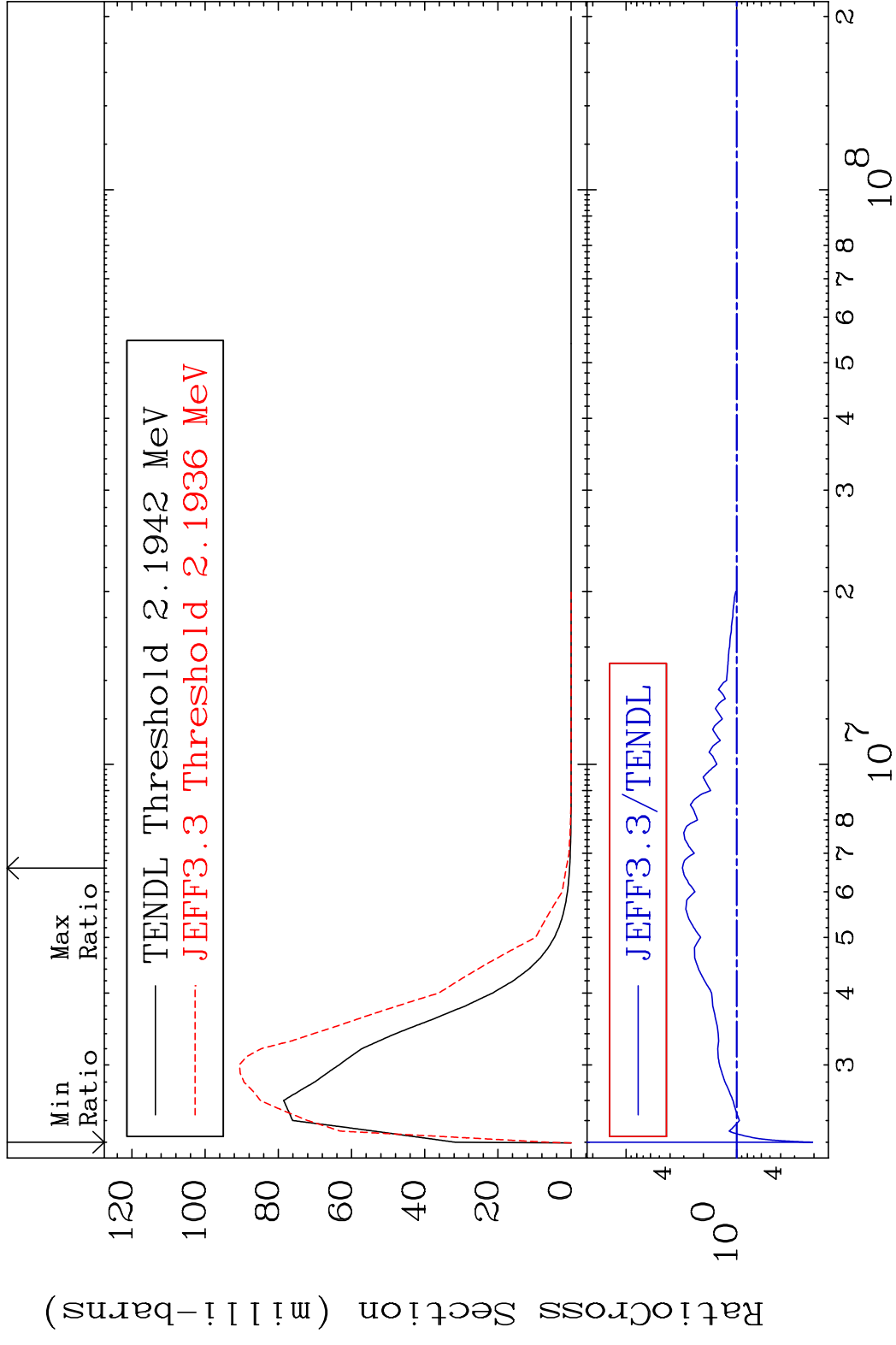
MAT 6031 MT= 58 (n, n') Level 60-Nd-144
 Cross Section -100.0 To 137.2 %



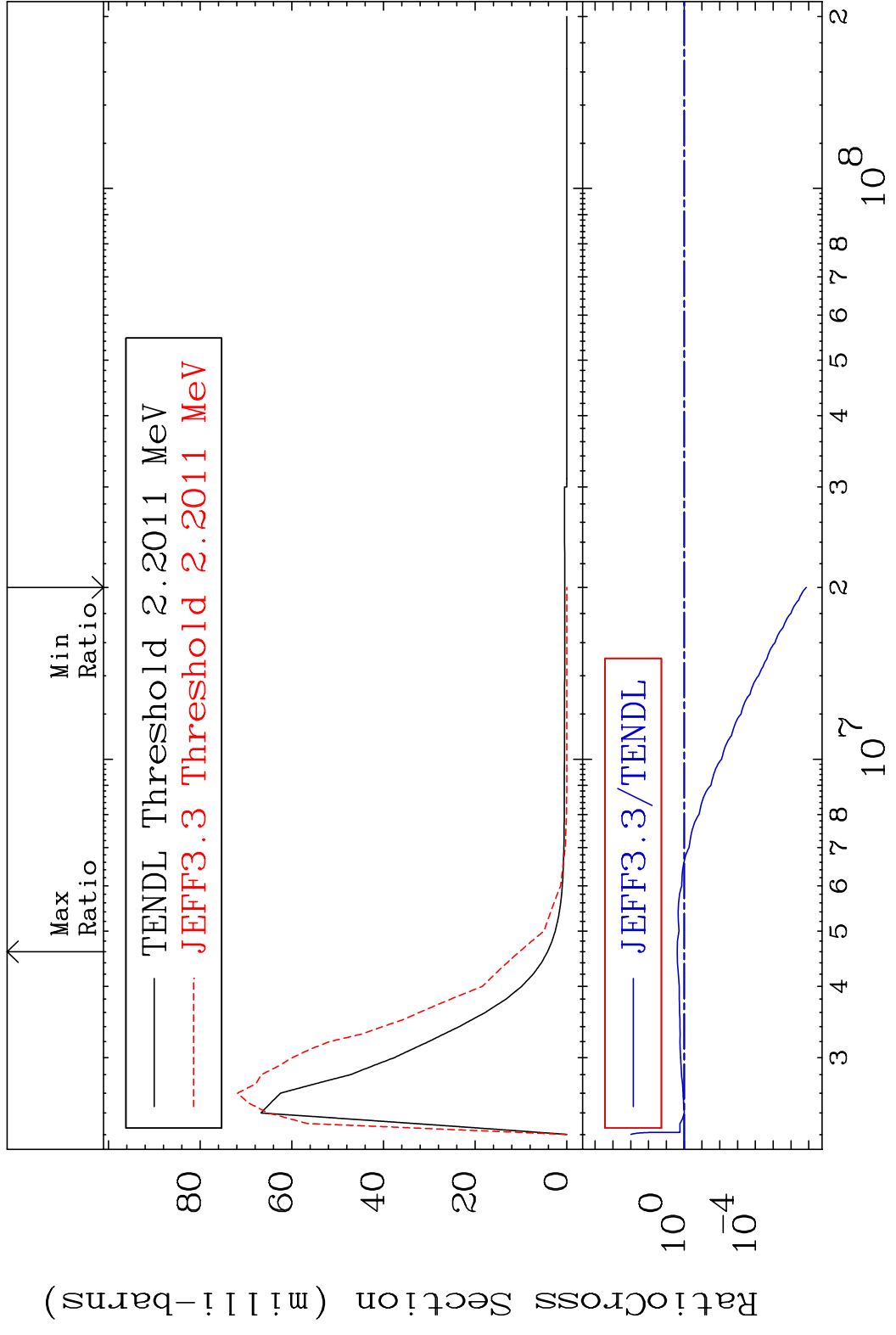
MAT 6031 MT= 59 (n, n') Level 60-Nd-144
 Cross Section -100.0 To 108.7 %



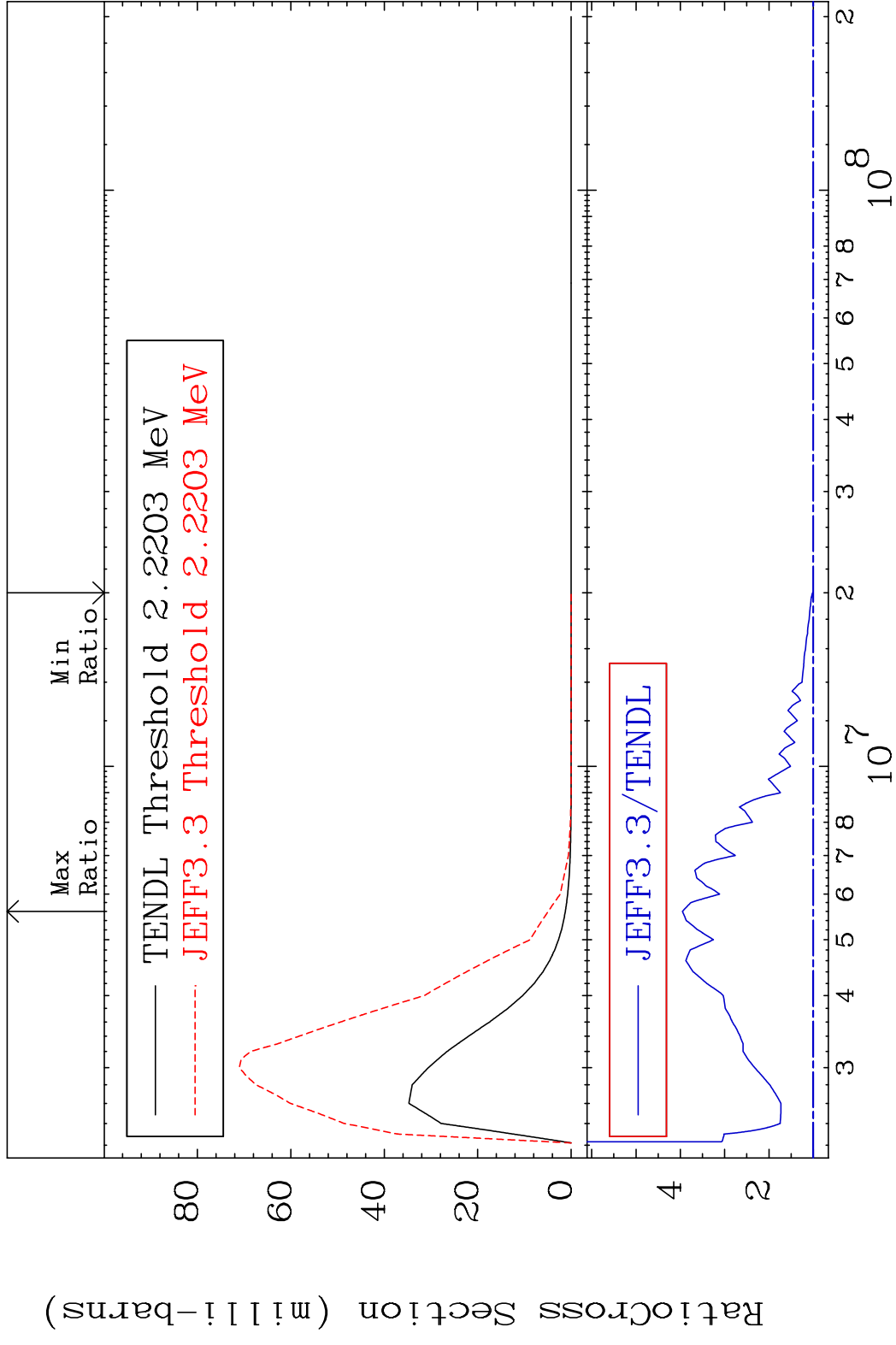
MAT 6031 MT= 60 (n, n') Level 60-Nd-144
 Cross Section -79.38 To 209.5 %



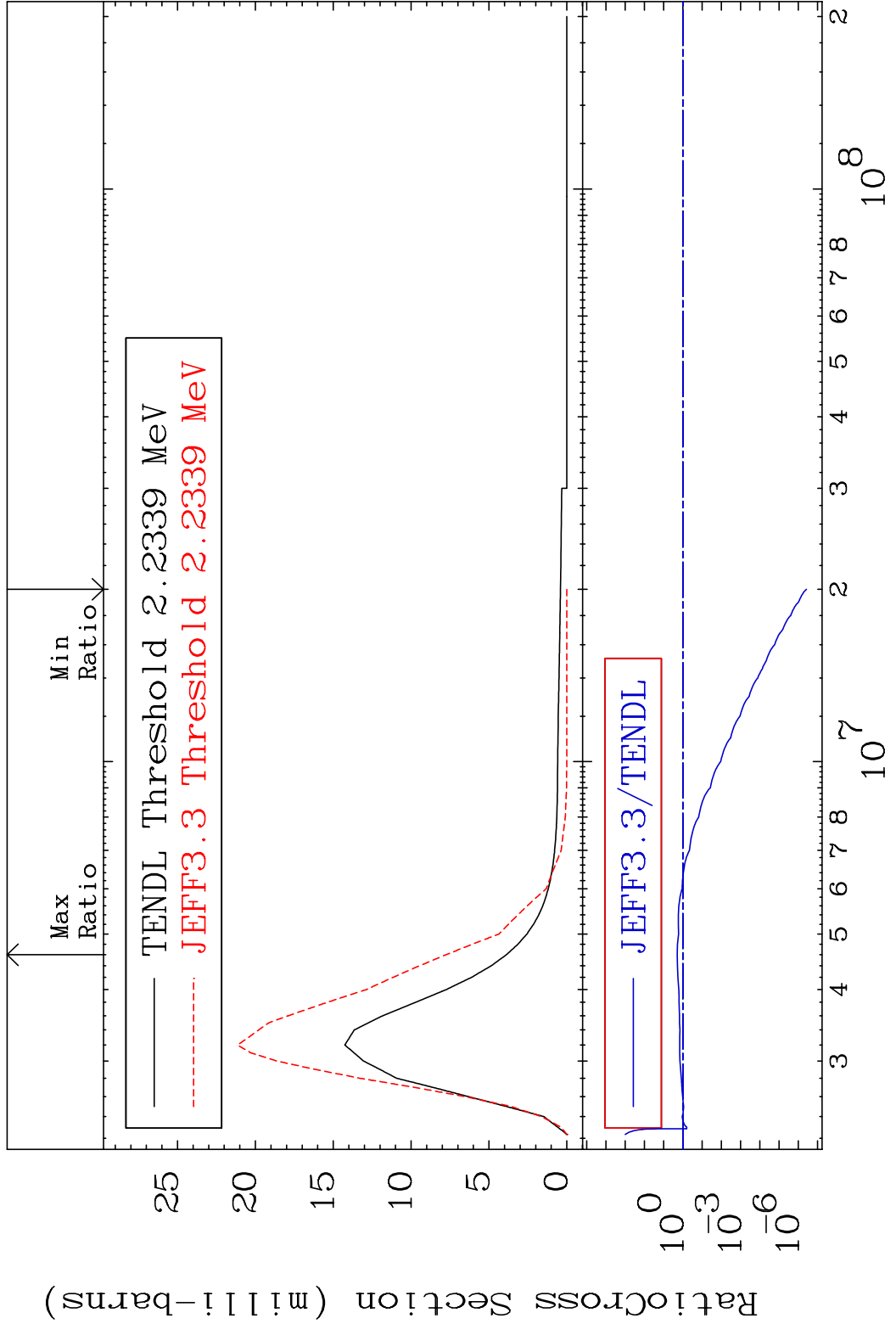
MAT 6031 MT= 61 (n, n') Level 60-Nd-144
 Cross Section -100.0 To 146.3 %



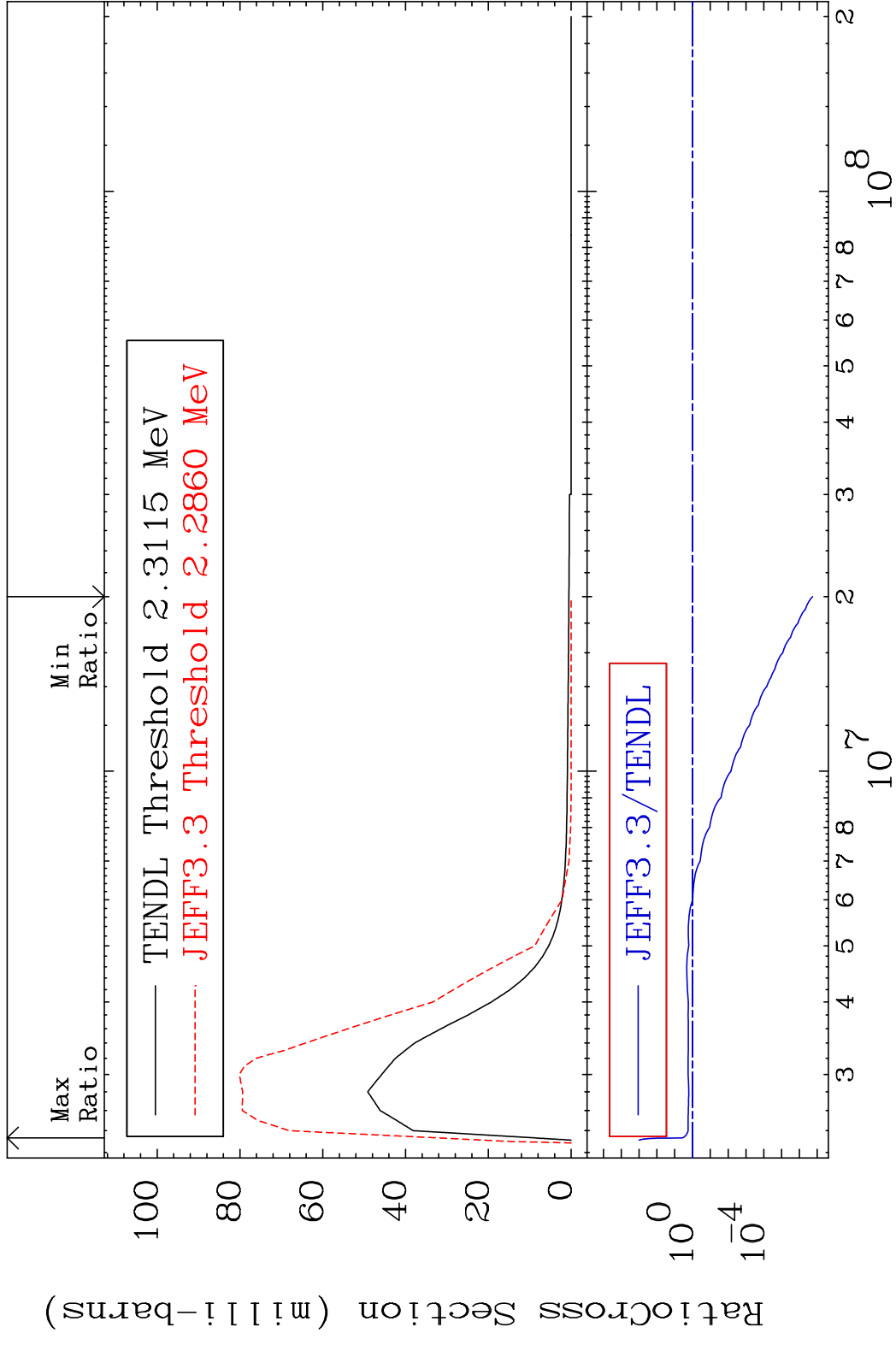
MAT 6031 MT= 62 (n, n') Level 60-Nd-144
 Cross Section 1.652 To 295.4 %



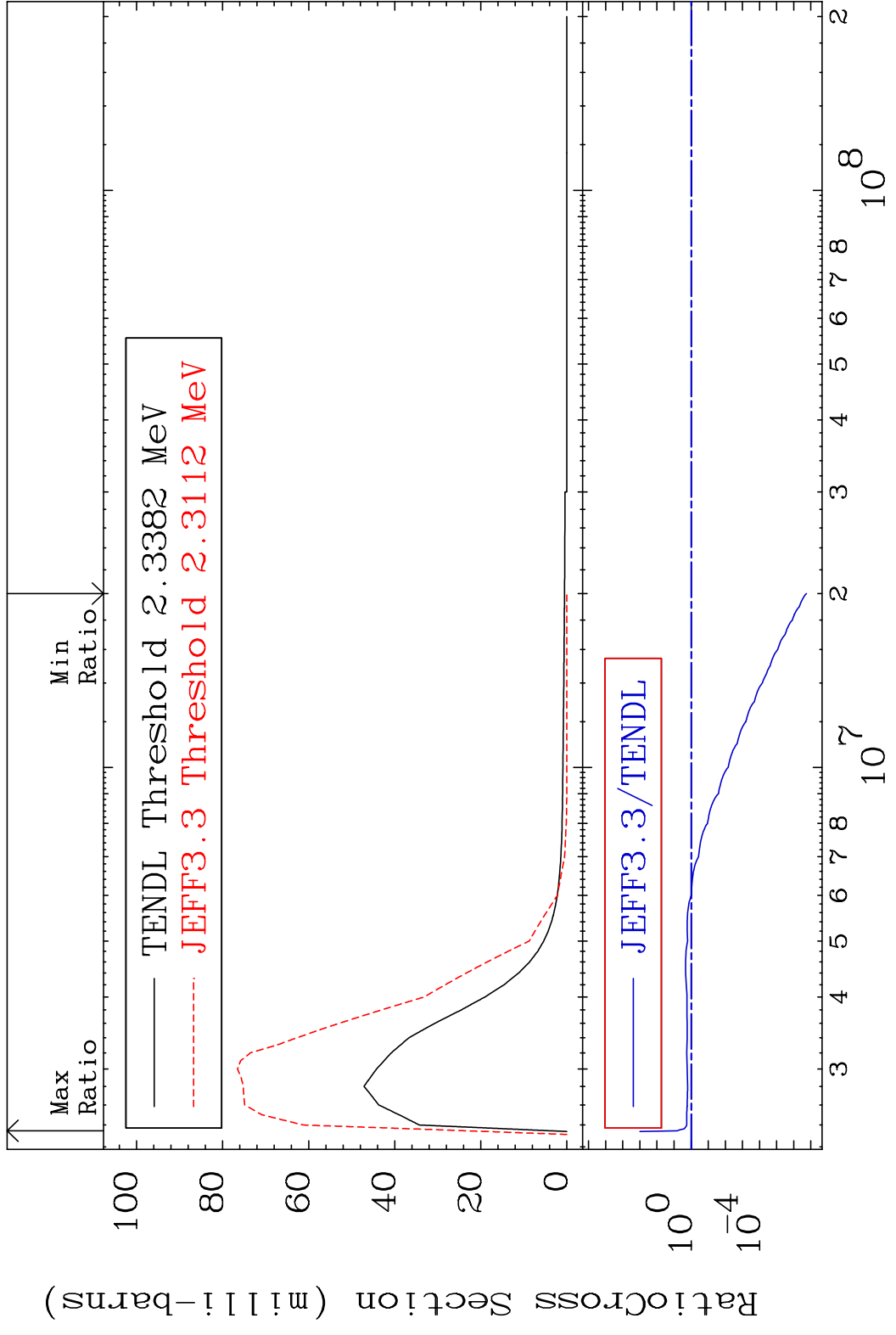
MAT 6031 MT= 63 (n, n') Level 60-Nd-144
 Cross Section -100.0 To 100.1 %



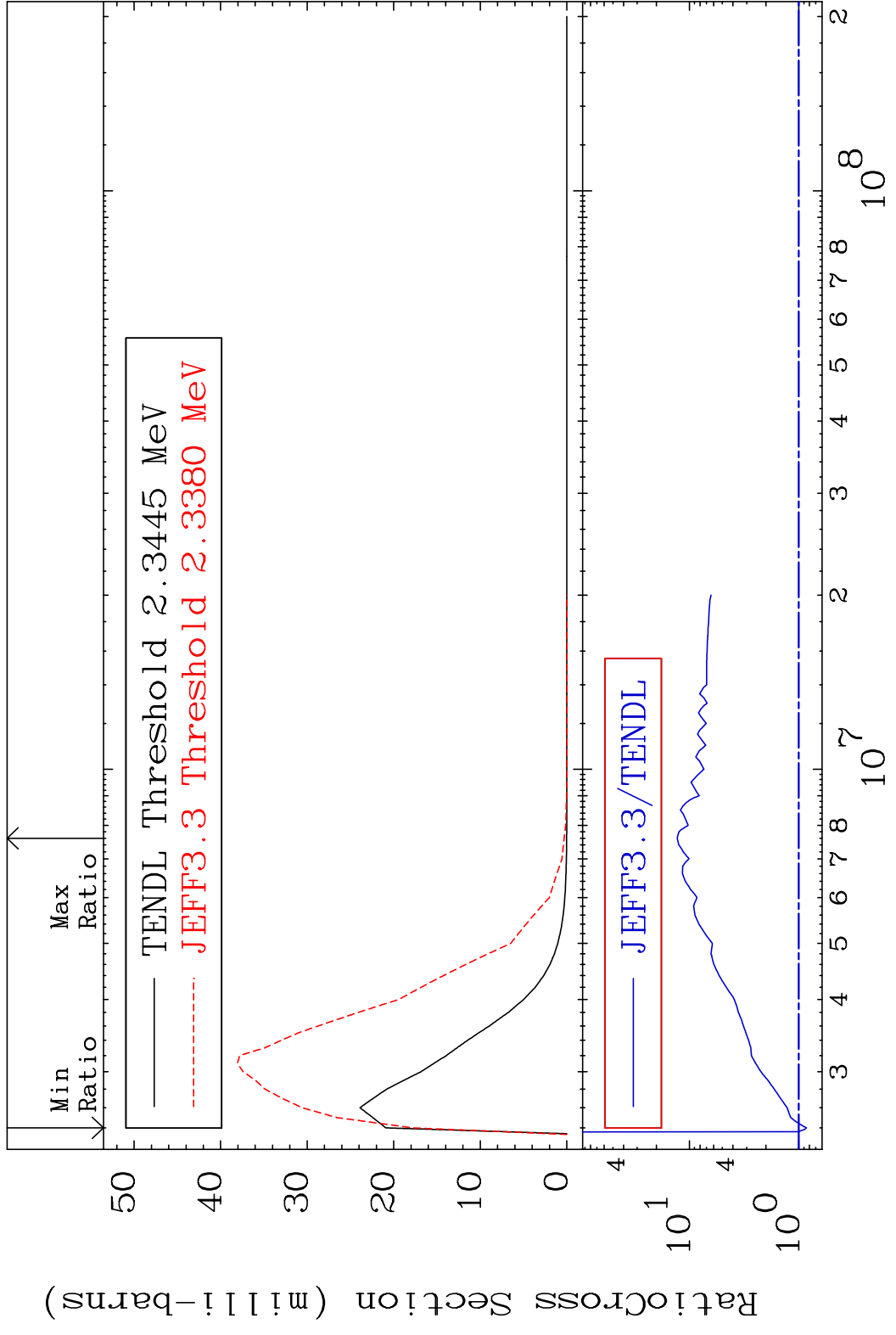
MAT 6031 MT= 64 (n, n') Level 60-Nd-144
 Cross Section -100.0 To 272.0 %



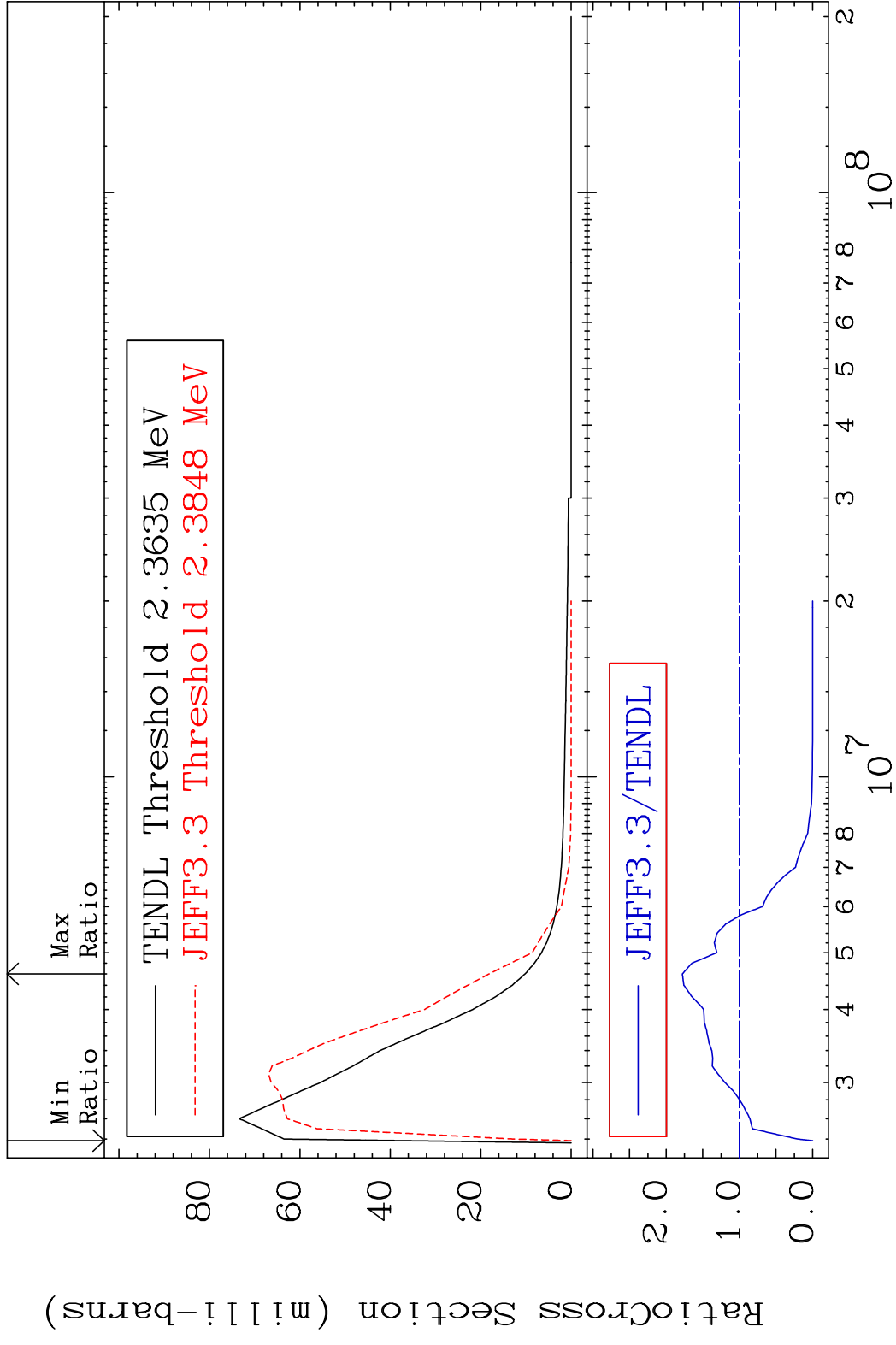
MAT 6031 MT= 65 (n, n') Level 60-Nd-144
 Cross Section -100.0 To 555.3 %



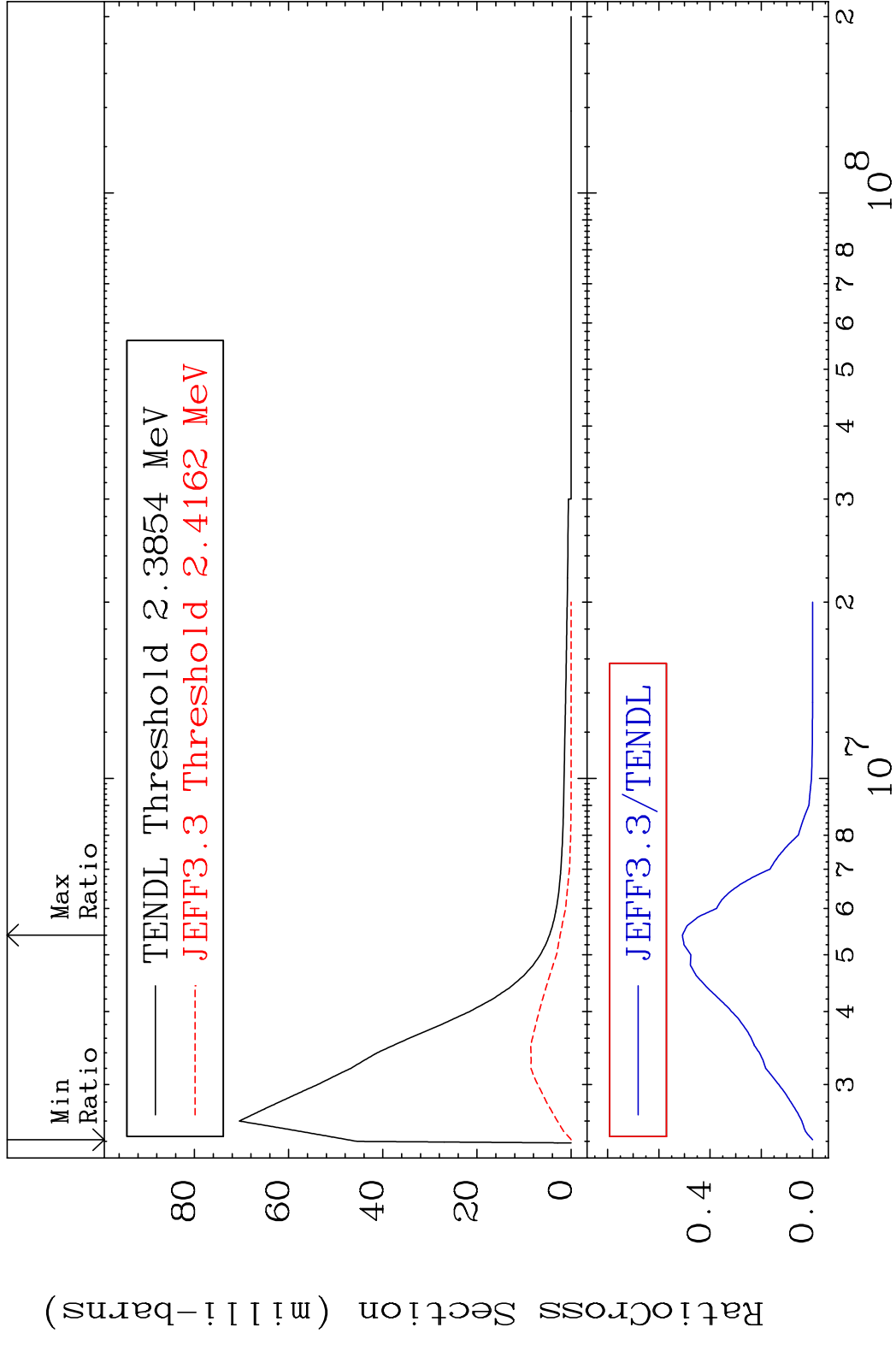
MAT 6031 MT= 66 (n,n') Level 60-Nd-144
 Cross Section -14.70 To 1193. %



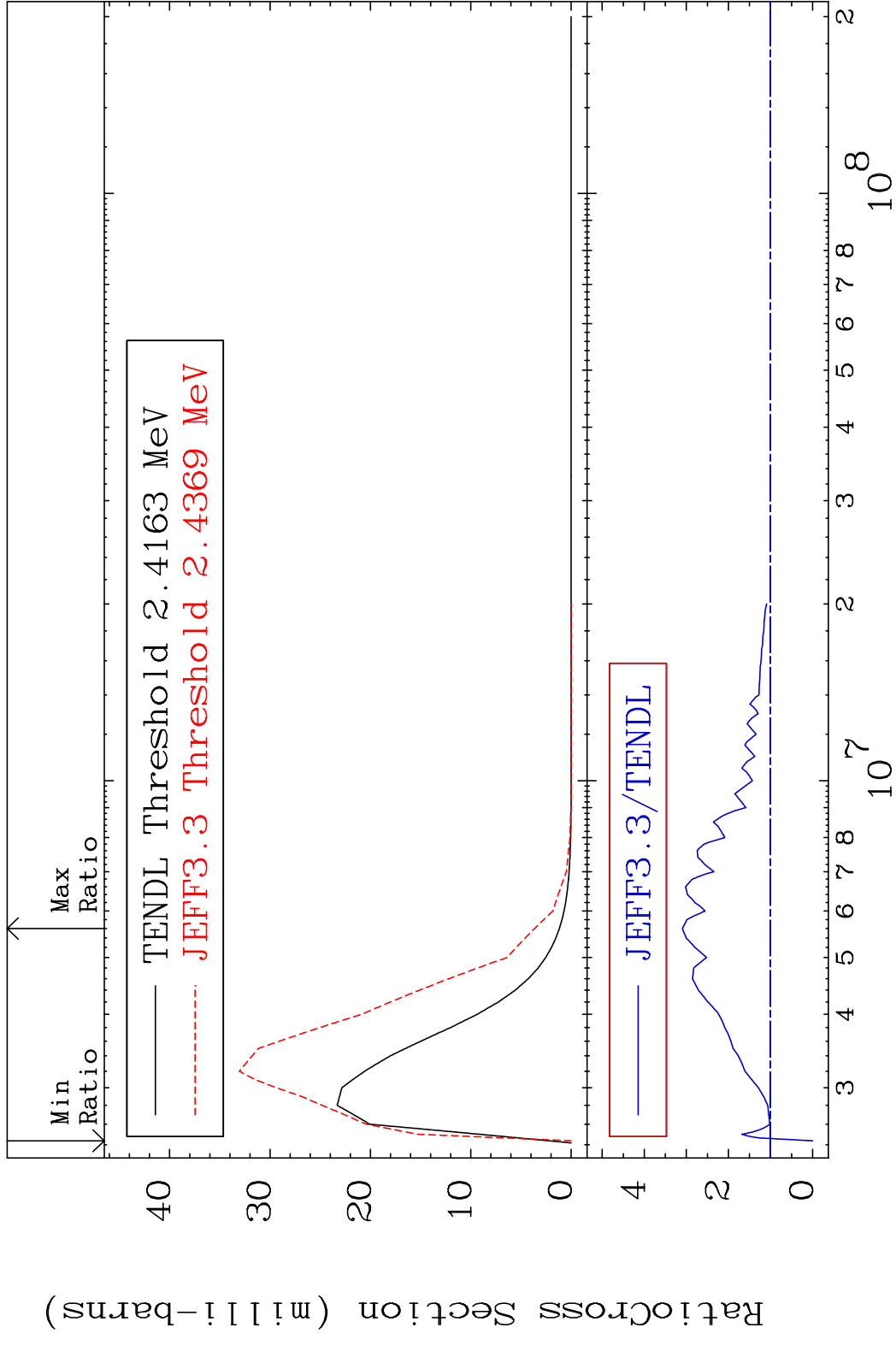
MAT 6031 MT= 67 (n, n') Level 60-Nd-144
 Cross Section -100.0 To 77.87 %



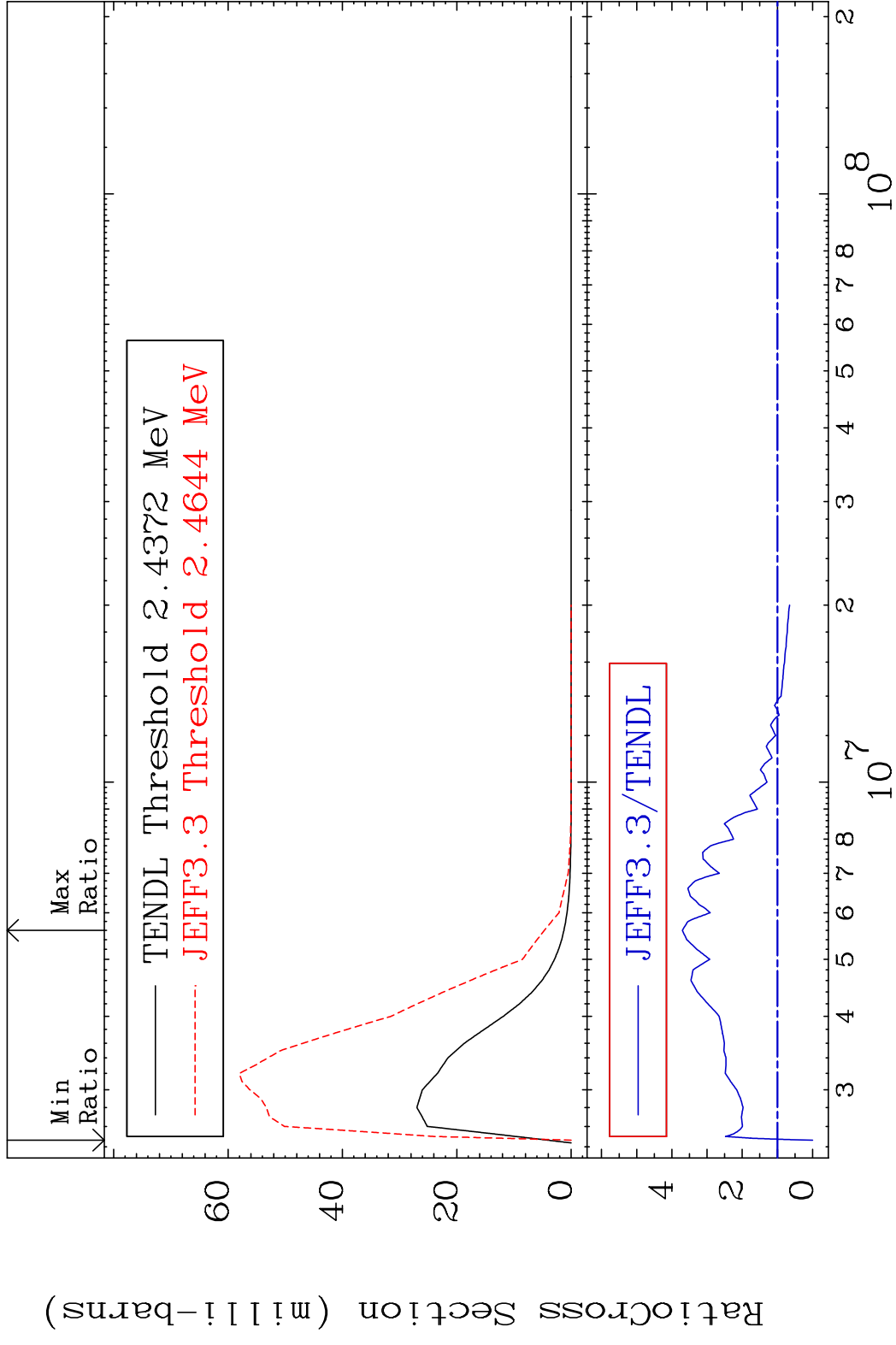
MAT 6031 MT= 68 (n, n') Level 60-Nd-144
 Cross Section -100.0 To -49.19%



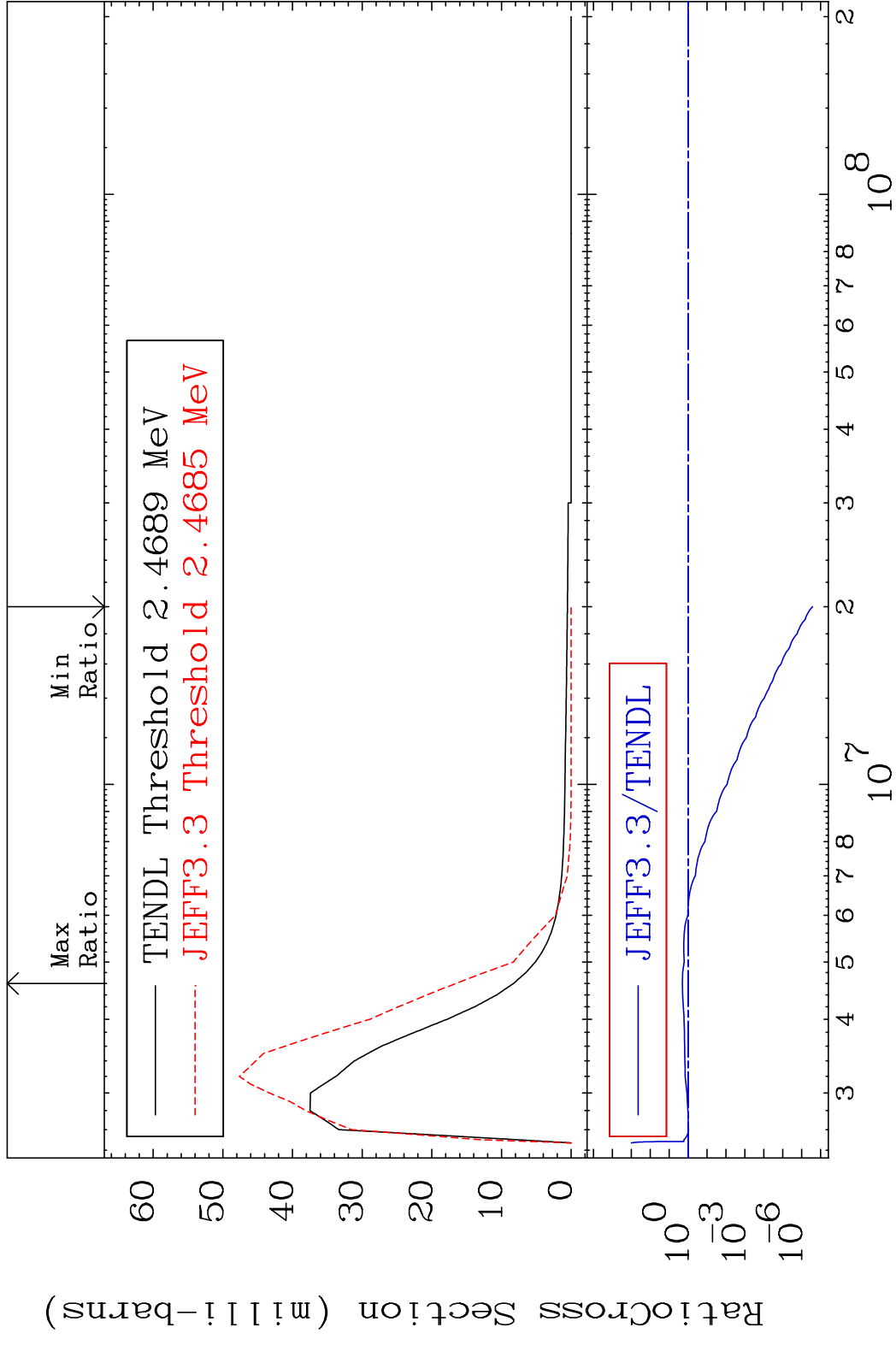
MAT 6031 MT= 69 (n, n') Level 60-Nd-144
 Cross Section -100.0 To 209.4 %



MAT 6031 MT= 70 (n, n') Level 60-Nd-144
 Cross Section -100.0 To 270.2 %

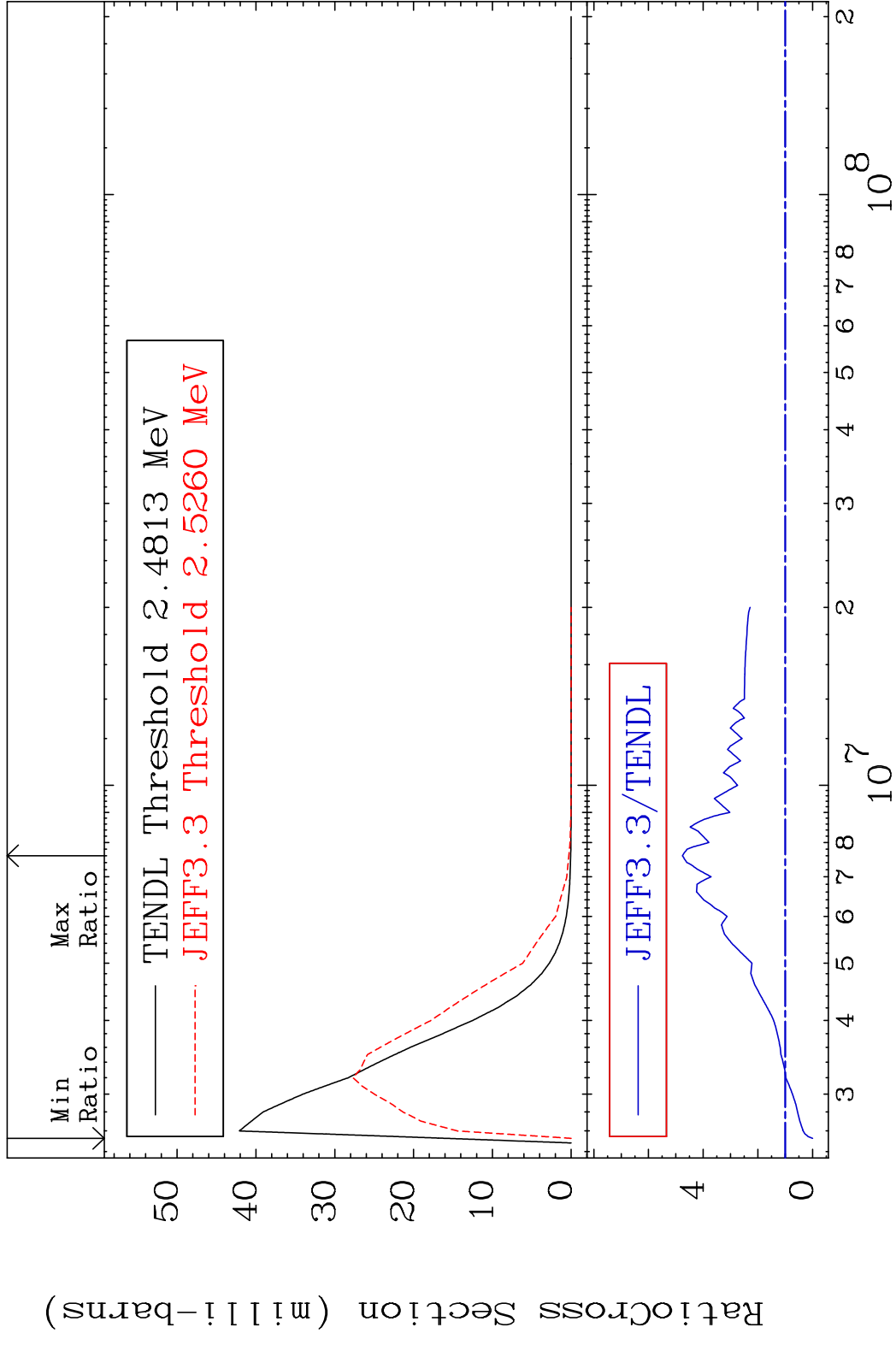


MAT 6031 MT= 71 (n, n') Level 60-Nd-144
 Cross Section -100.0 To 99.98 %

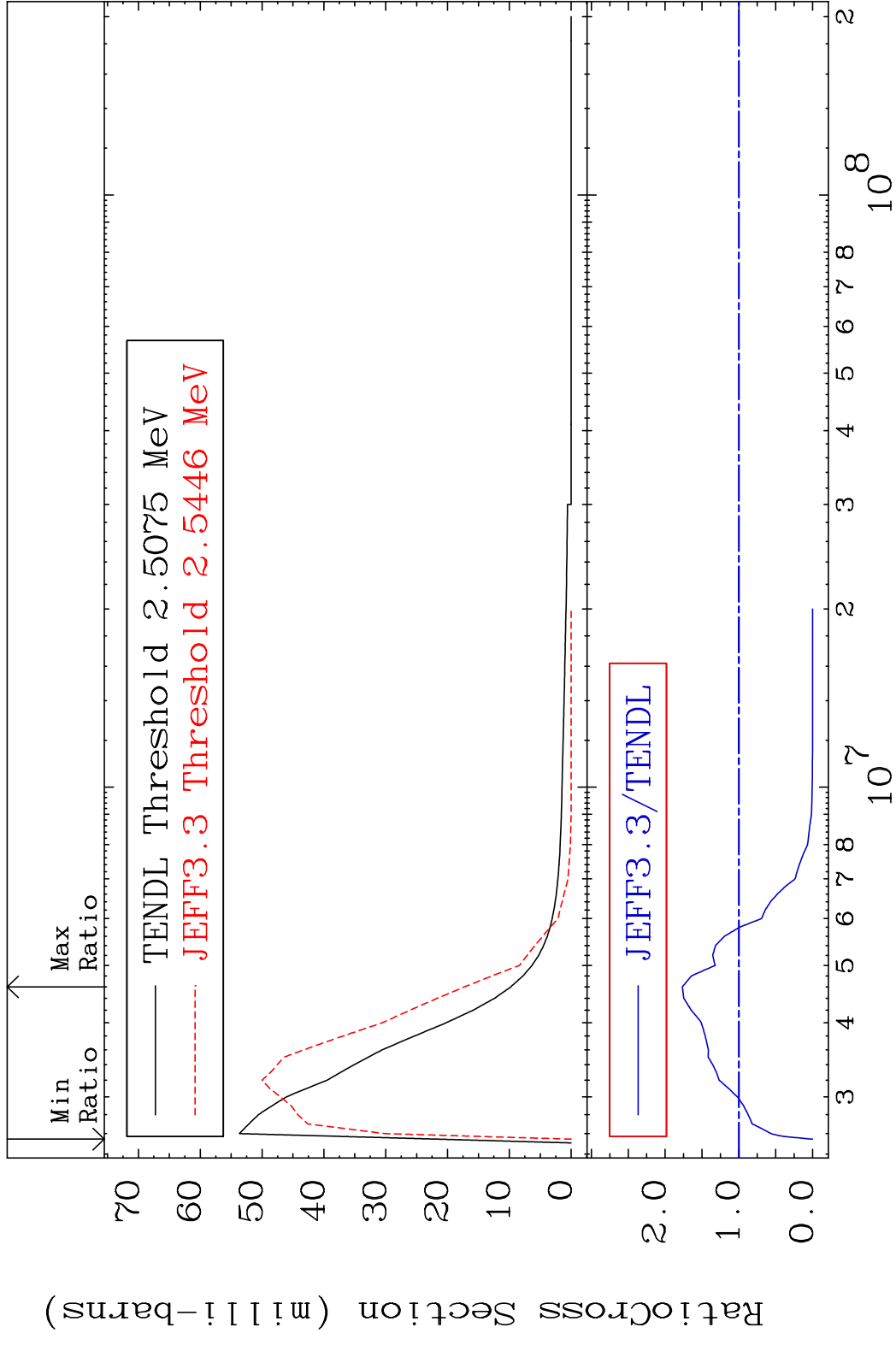


30 Incident Energy (eV) 60-Nd-144

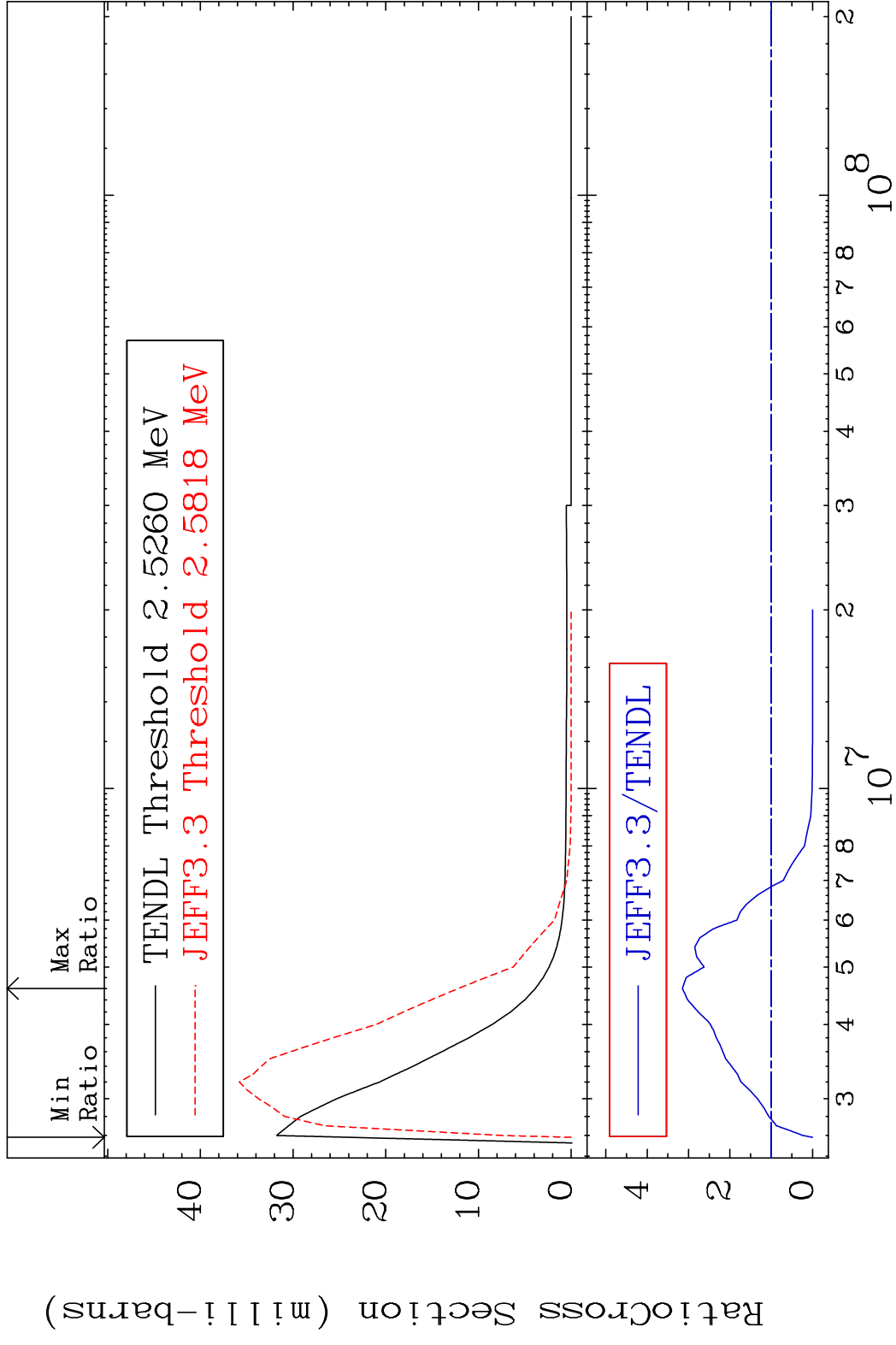
MAT 6031 MT= 72 (n, n') Level 60-Nd-144
 Cross Section -100.0 To 376.2 %



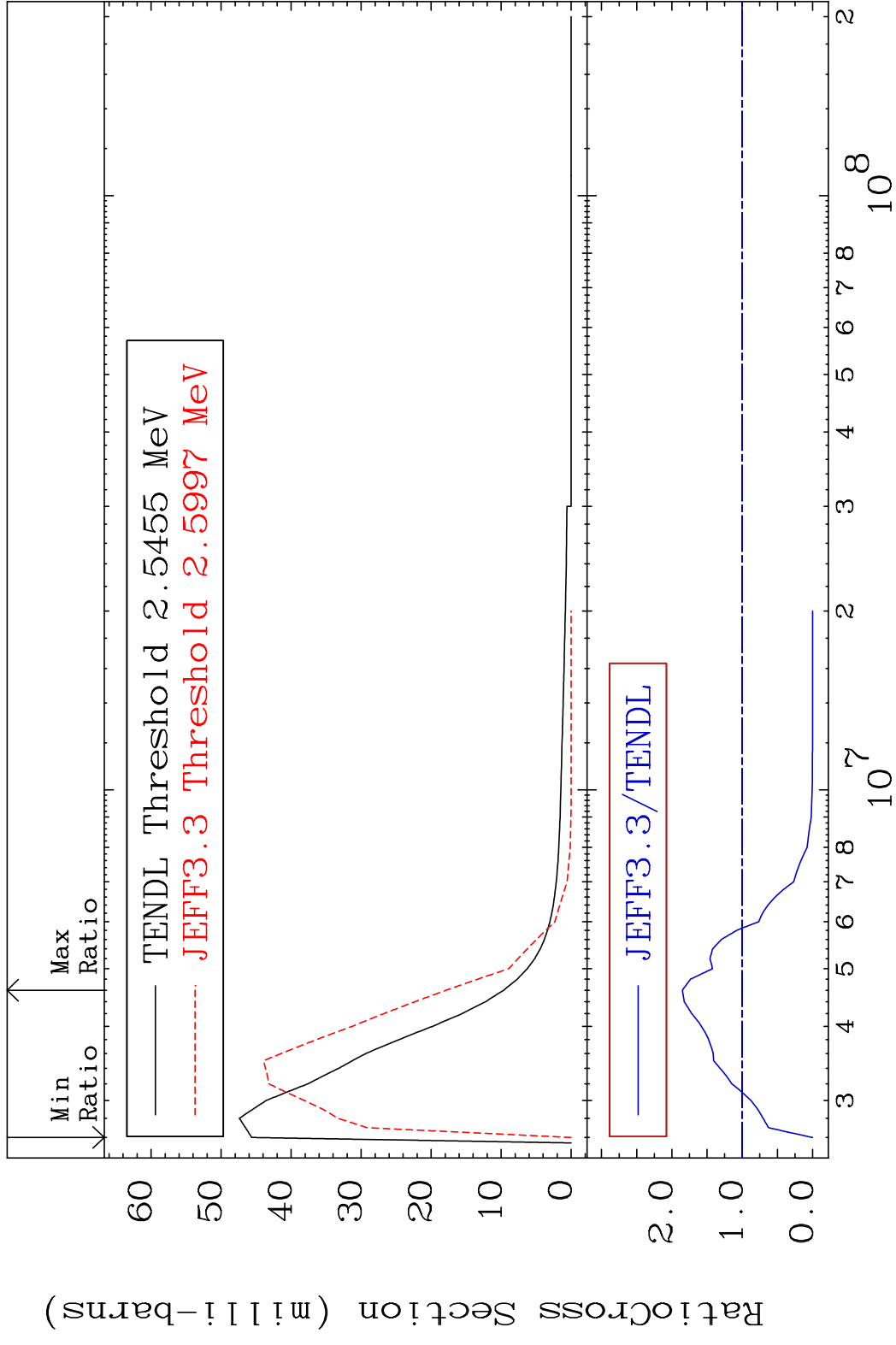
MAT 6031 MT= 73 (n, n') Level 60-Nd-144
 Cross Section -100.0 To 76.63 %



MAT 6031 MT= 74 (n, n') Level 60-Nd-144
 Cross Section -100.0 To 214.9 %

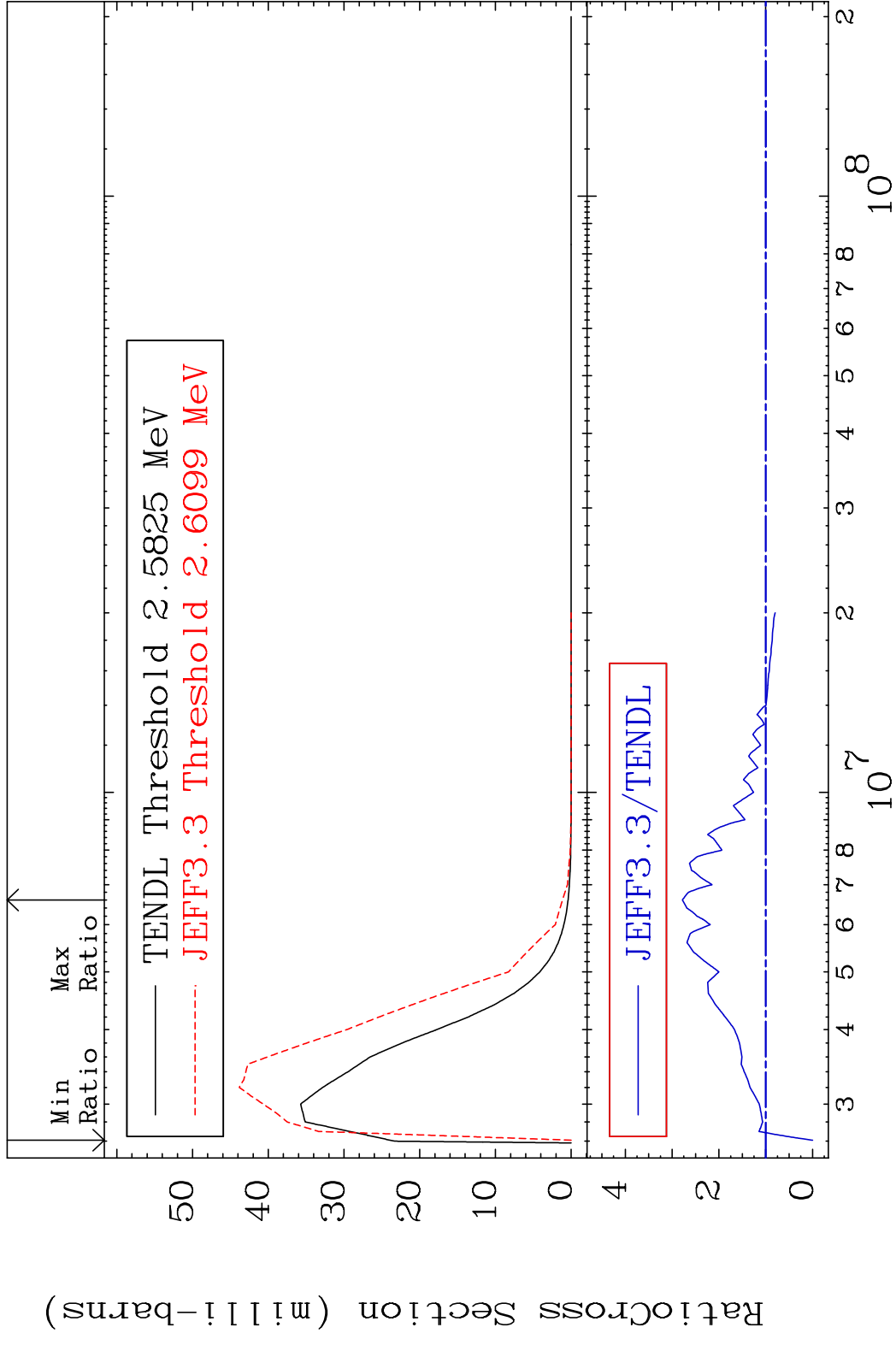


MAT 6031 MT= 75 (n, n') Level 60-Nd-144
 Cross Section -100.0 To 85.10 %

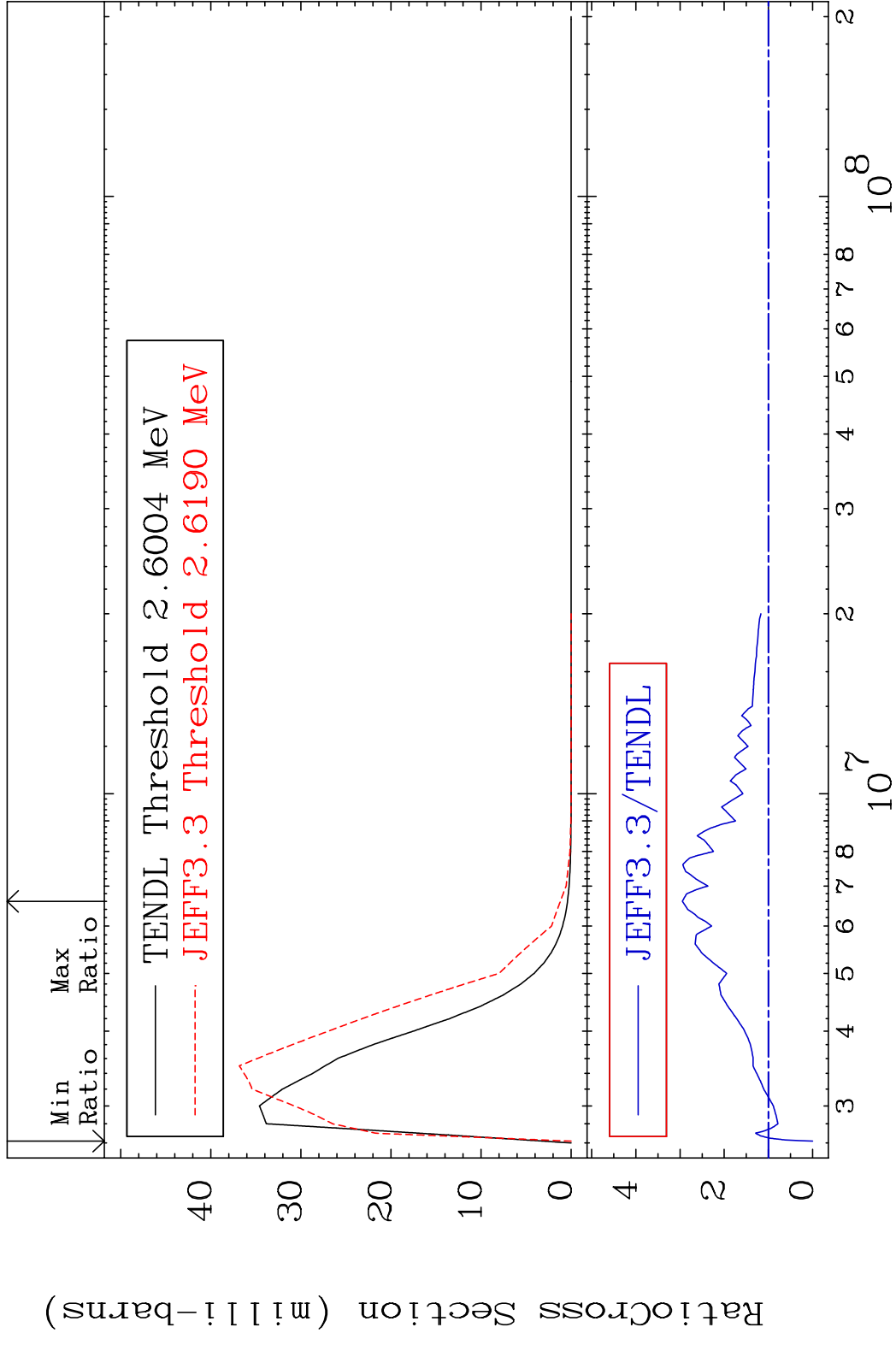


34 Incident Energy (eV) 60-Nd-144

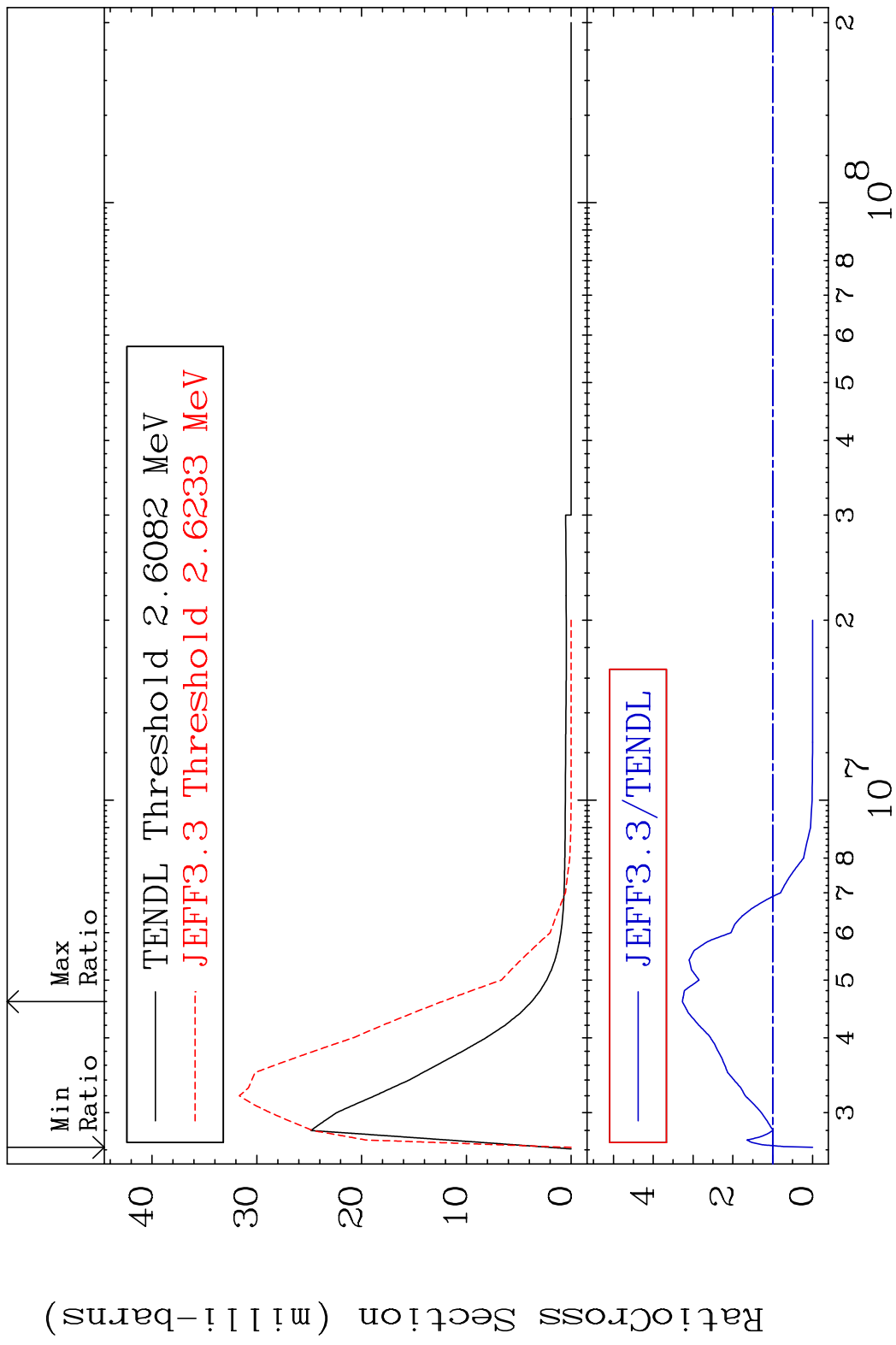
MAT 6031 MT= 76 (n,n') Level 60-Nd-144
 Cross Section -100.0 To 178.1 %



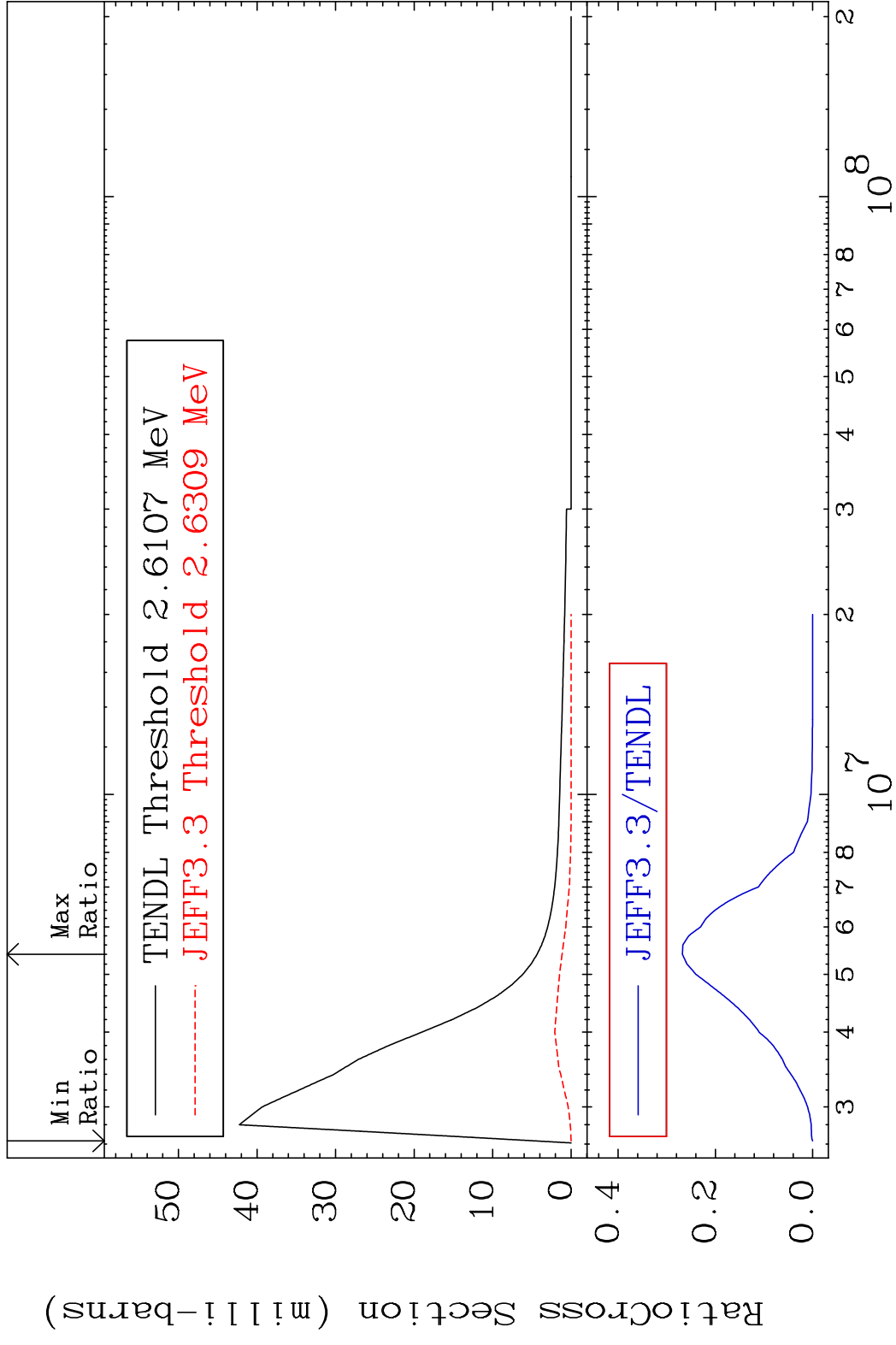
MAT 6031 MT= 77 (n, n') Level 60-Nd-144
 Cross Section -100.0 To 194.8 %



MAT 6031 MT= 78 (n, n') Level 60-Nd-144
 Cross Section -100.0 To 226.9 %



MAT 6031 MT= 79 (n, n') Level 60-Nd-144
 Cross Section -100.0 To -73.21%

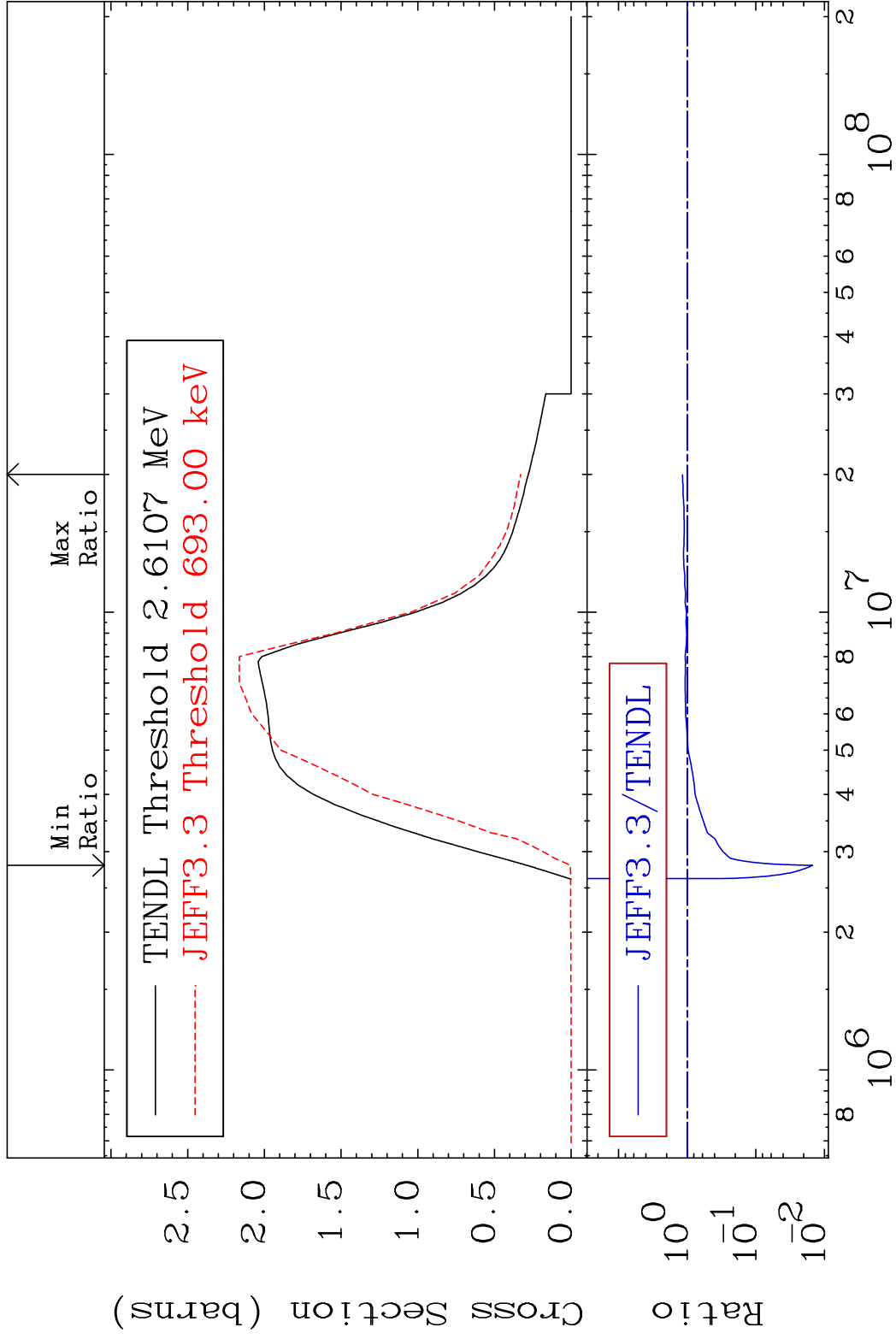


MAT 6031

(n, n') Continuum

60-Nd-144

Cross Section -98.51 To 17.80 %



39

Incident Energy (eV)

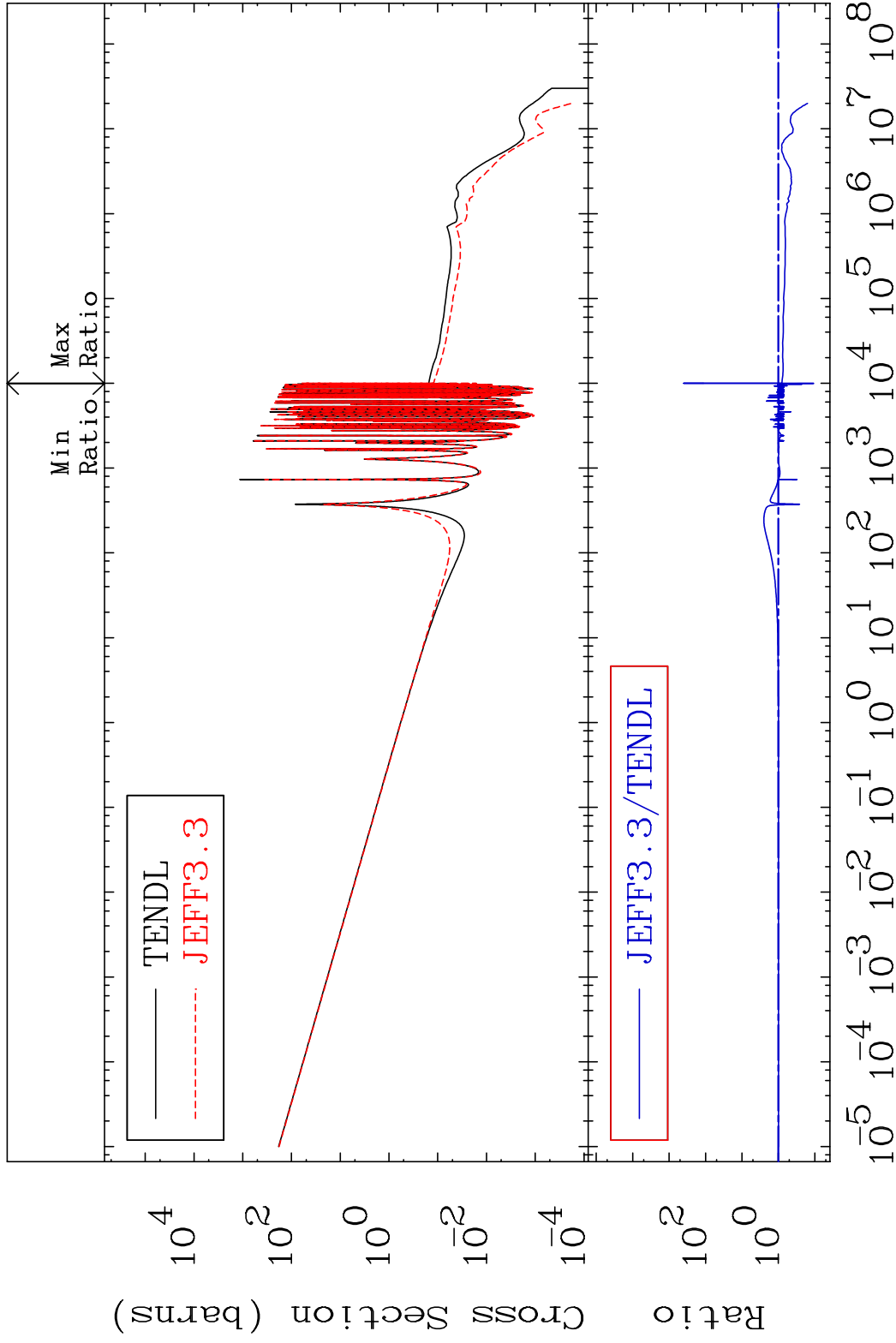
60-Nd-144

MAT 6031

(n, γ)

60-Nd-144

Cross Section -89.58 To 9999. %



40

Incident Energy (eV)

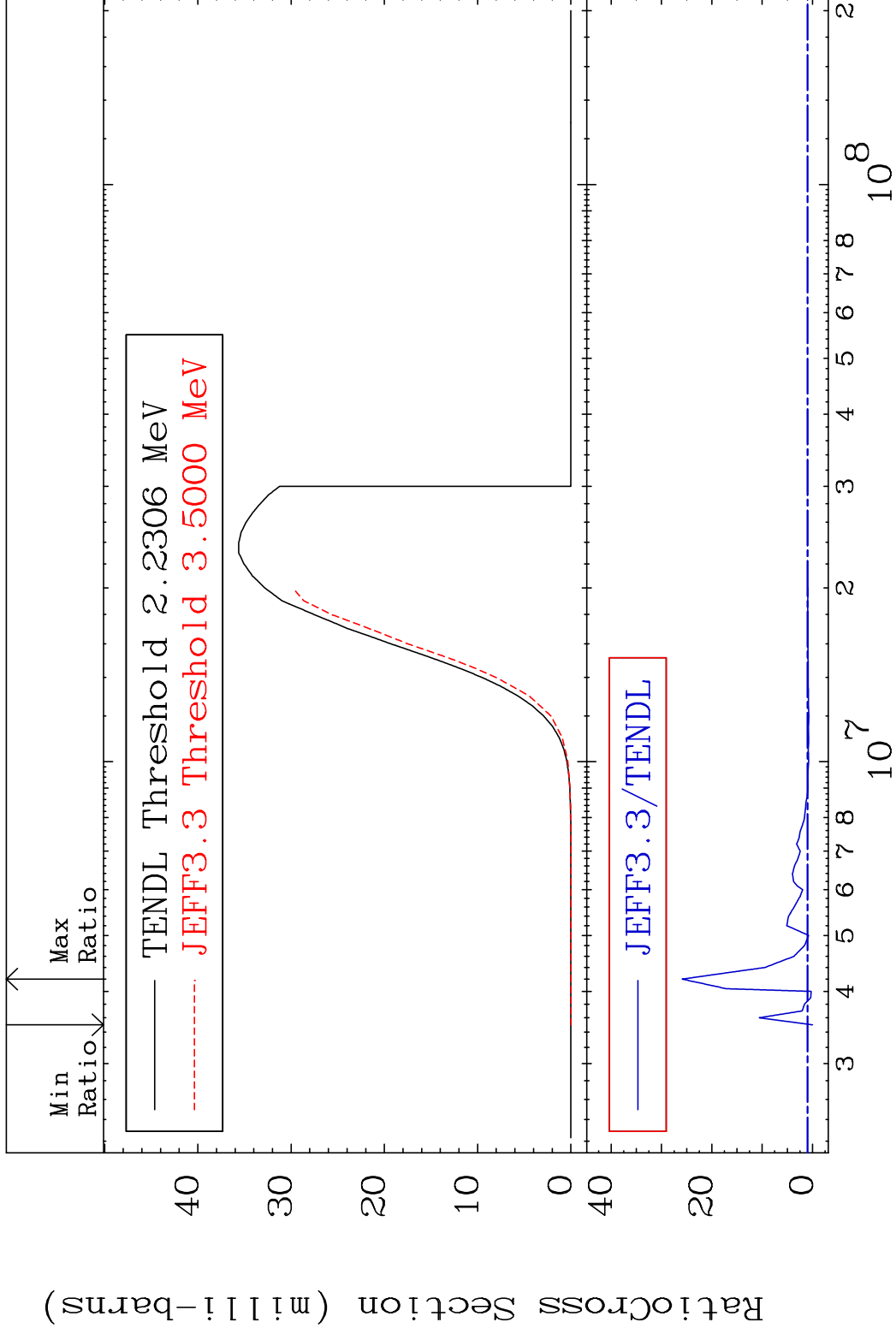
60-Nd-144

MAT 6031

(n, p)

60-Nd-144

Cross Section -100.0 To 2490. %



41

Incident Energy (eV)

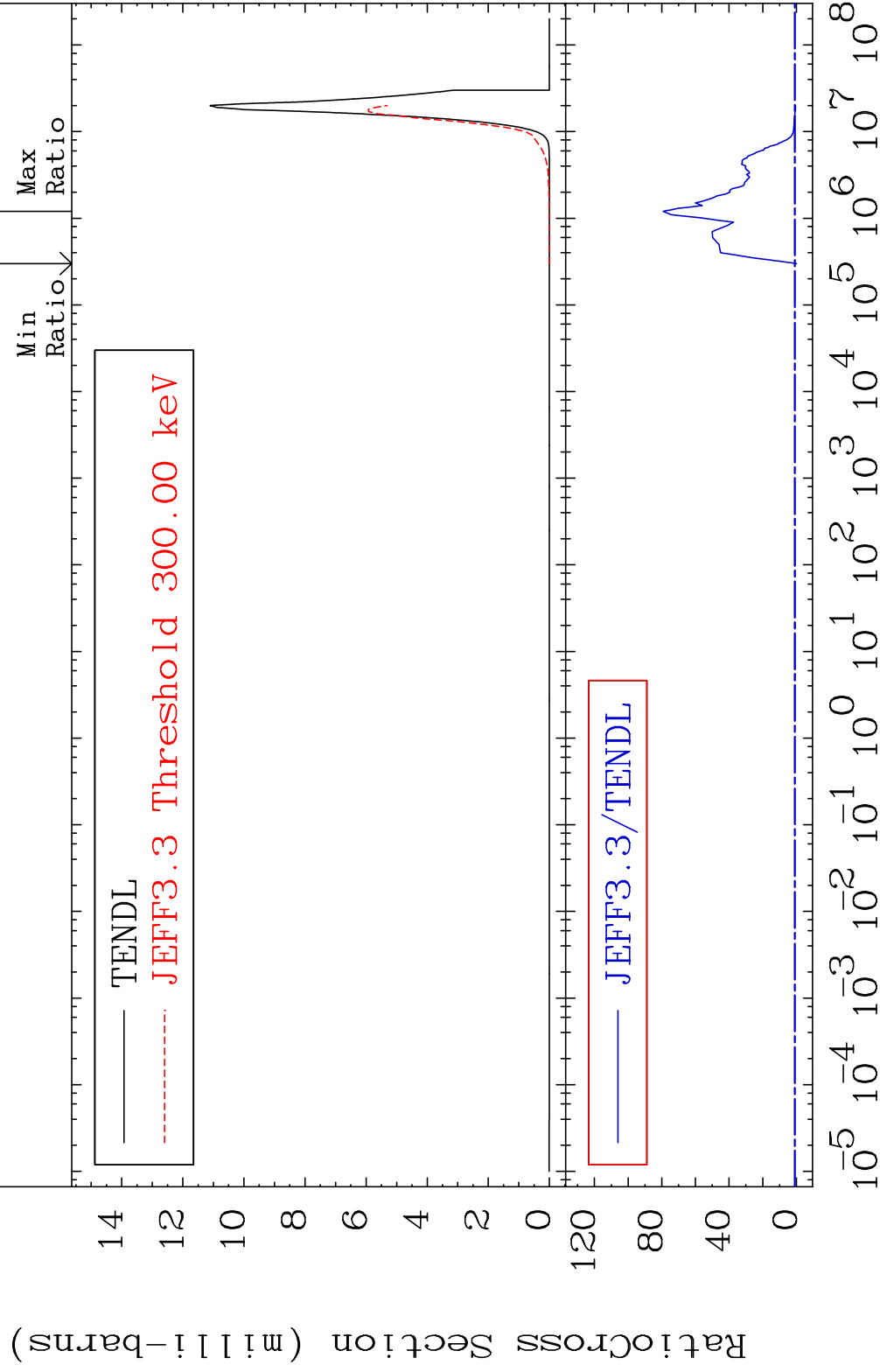
60-Nd-144

MAT 6031

(n, α)

60-Nd-144

Cross Section -100.0 To 7817. %

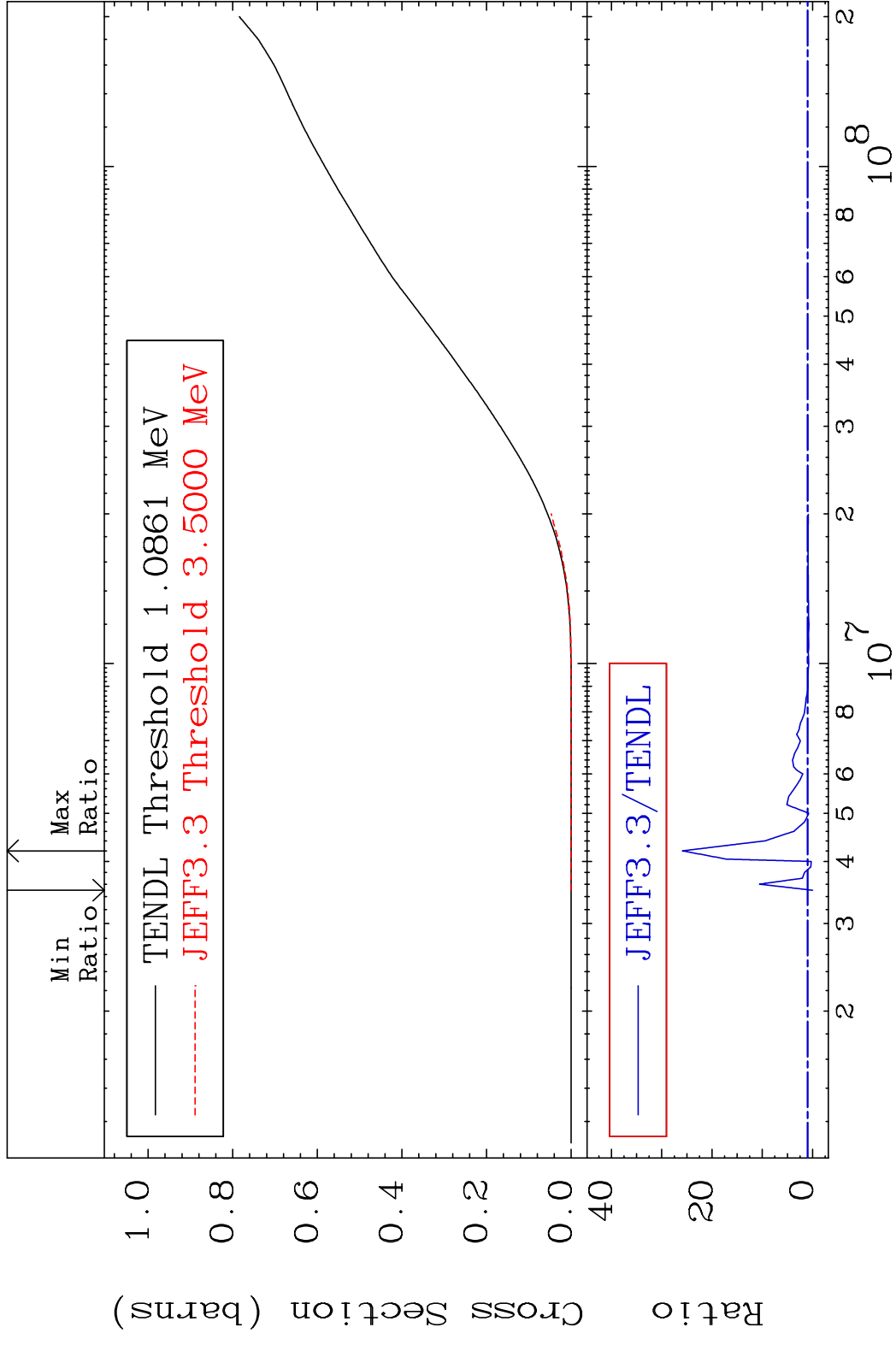


42

Incident Energy (eV)

60-Nd-144

MAT 6031 Hydrogen Production 60-Nd-144
 Cross Section -100.0 To 2490. %

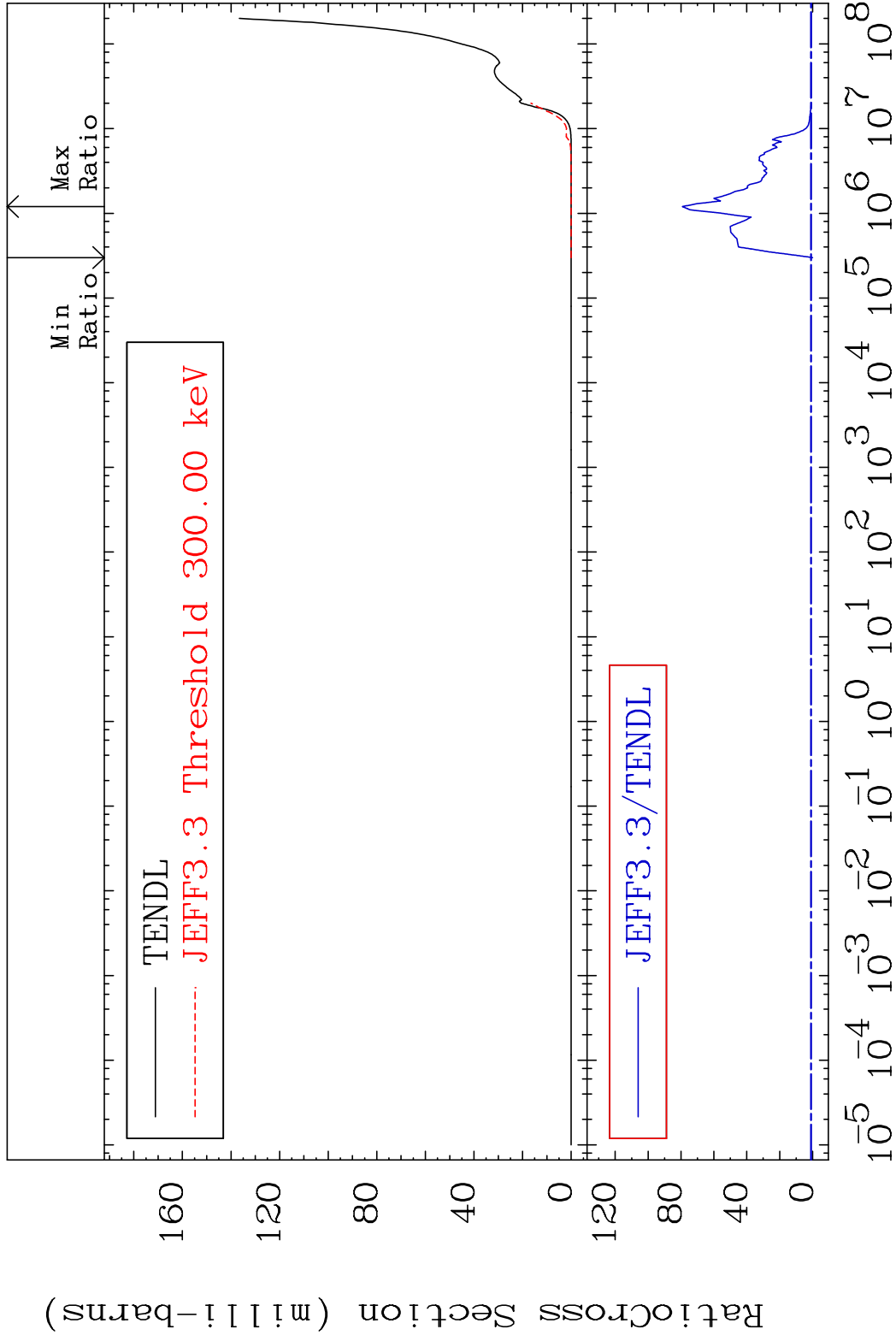


MAT 6031

He-4 Production

60-Nd-144

Cross Section -100.0 To 7817. %

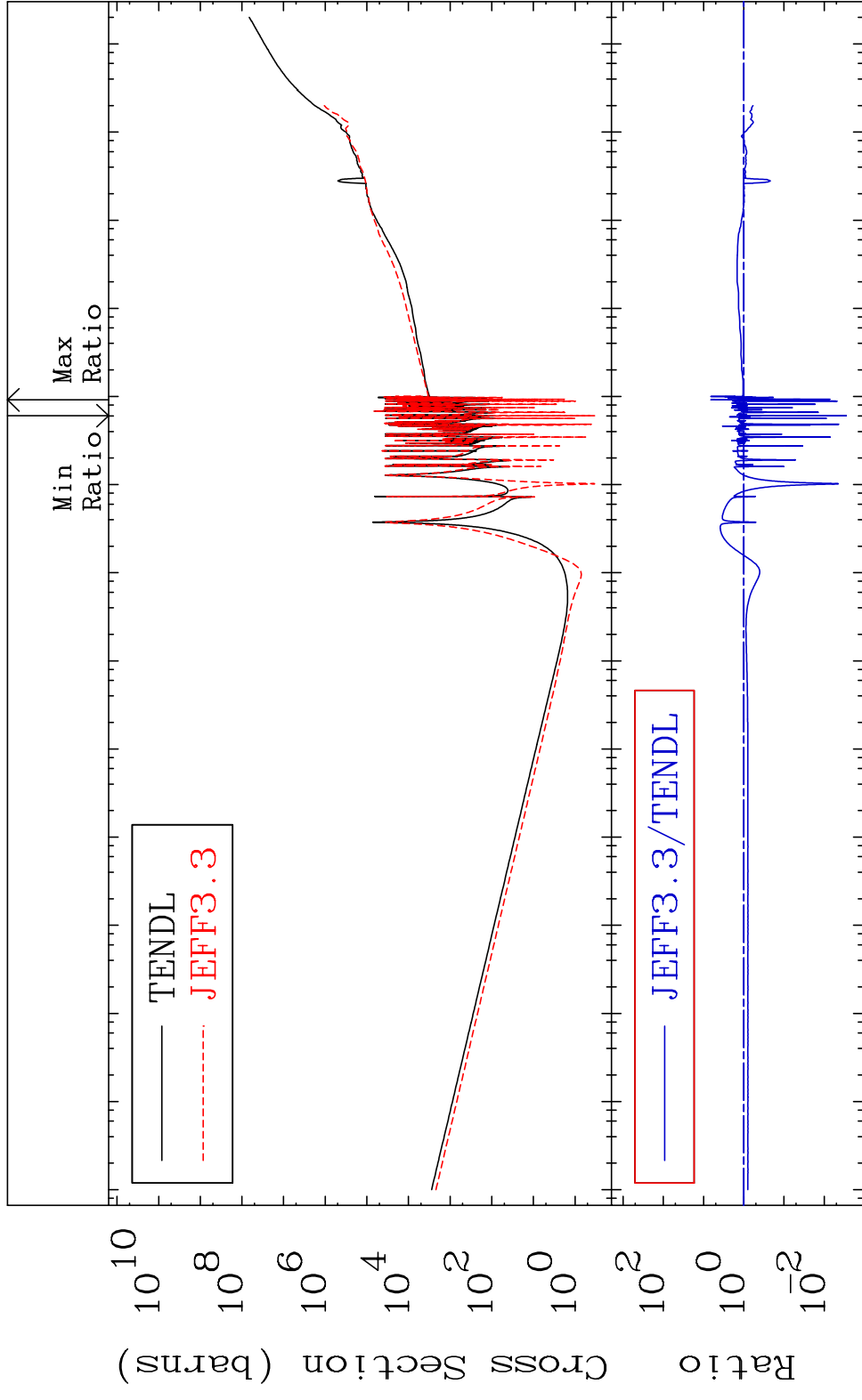


44

Incident Energy (eV)

60-Nd-144

MAT 6031 Kerma total (eV-barns) 60-Nd-144
 Cross Section -99.72 To 563.3 %

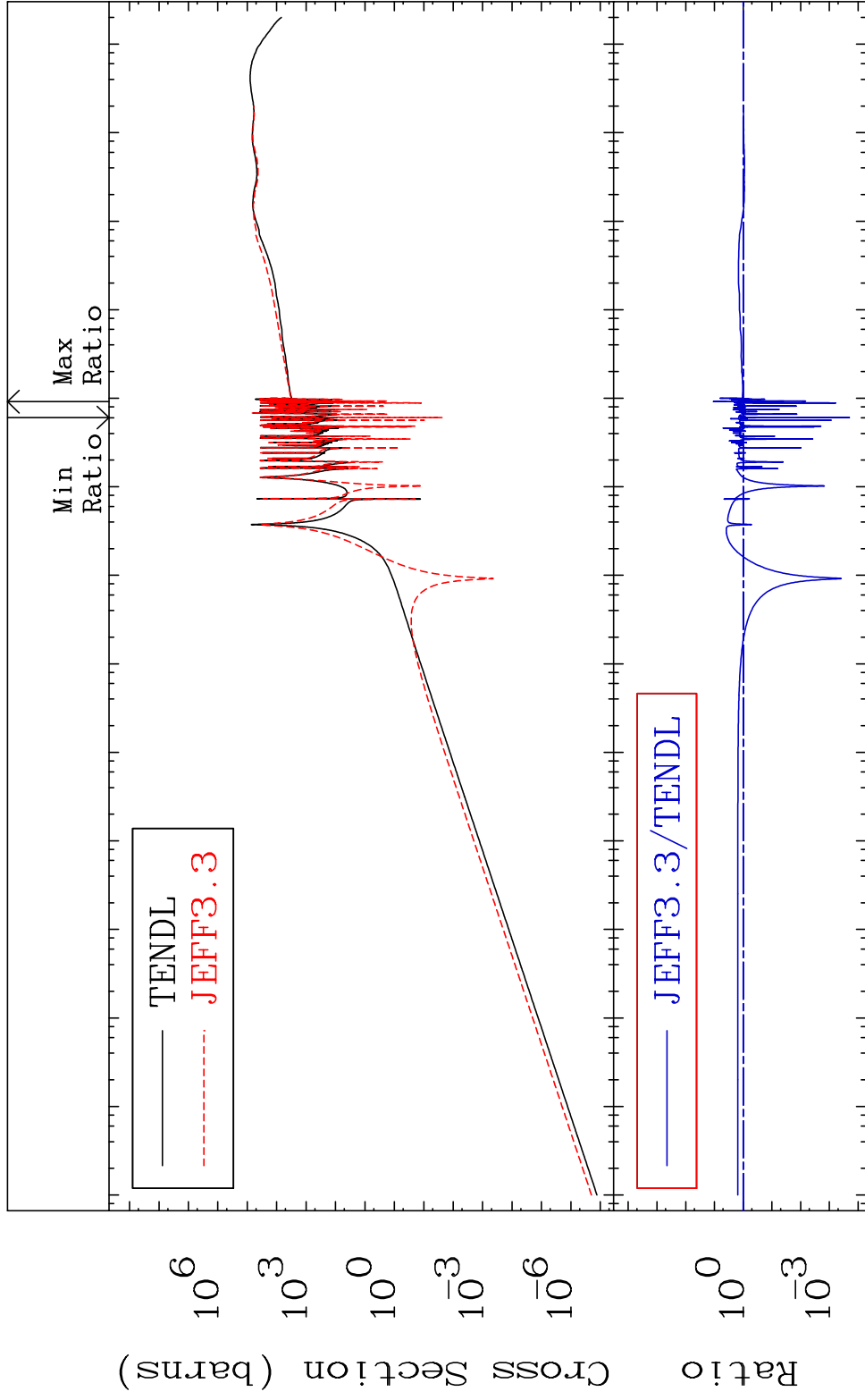


45 Incident Energy (eV) 60-Nd-144

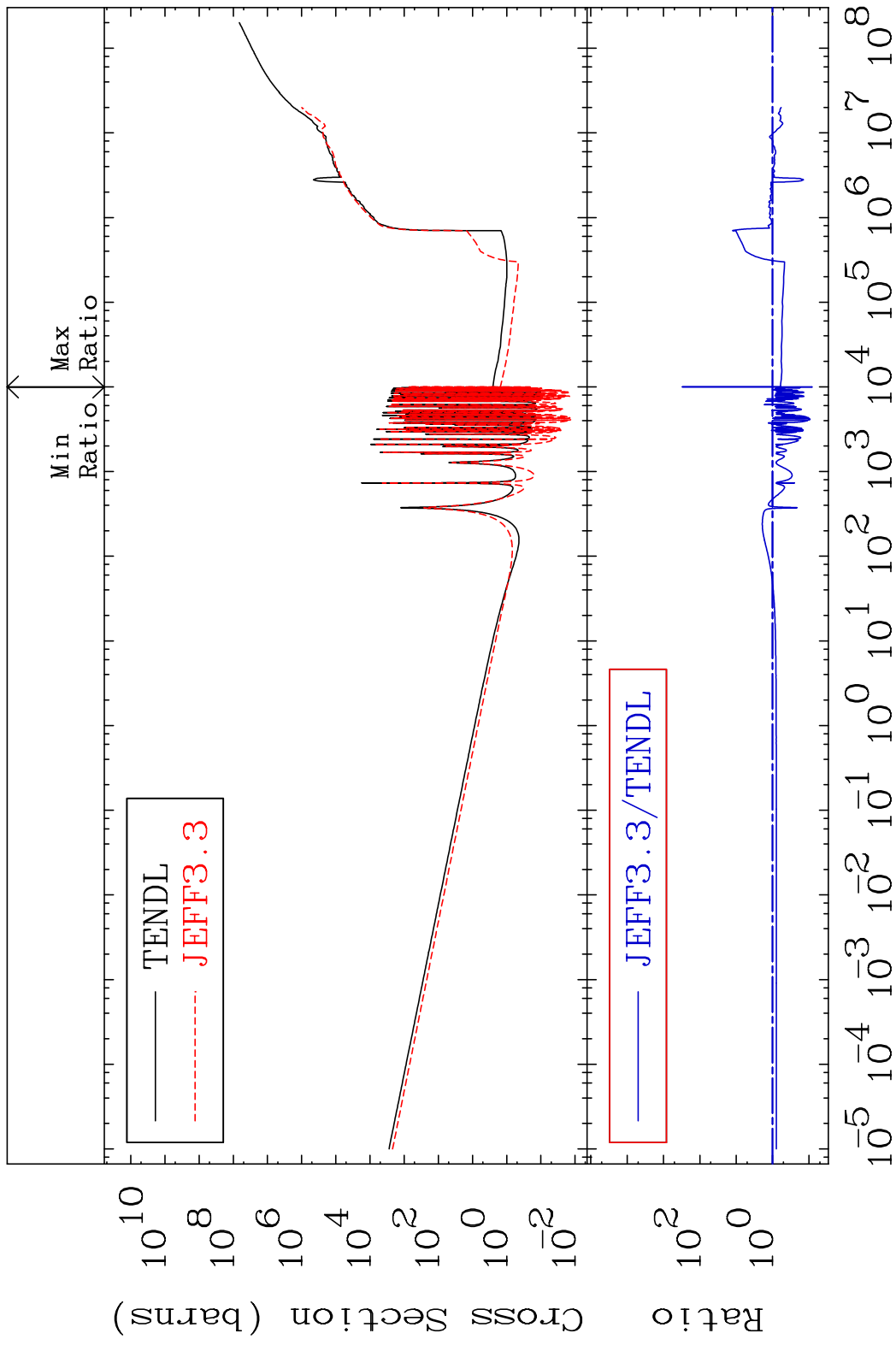
MAT 6031

Kerma elastic
Cross Section

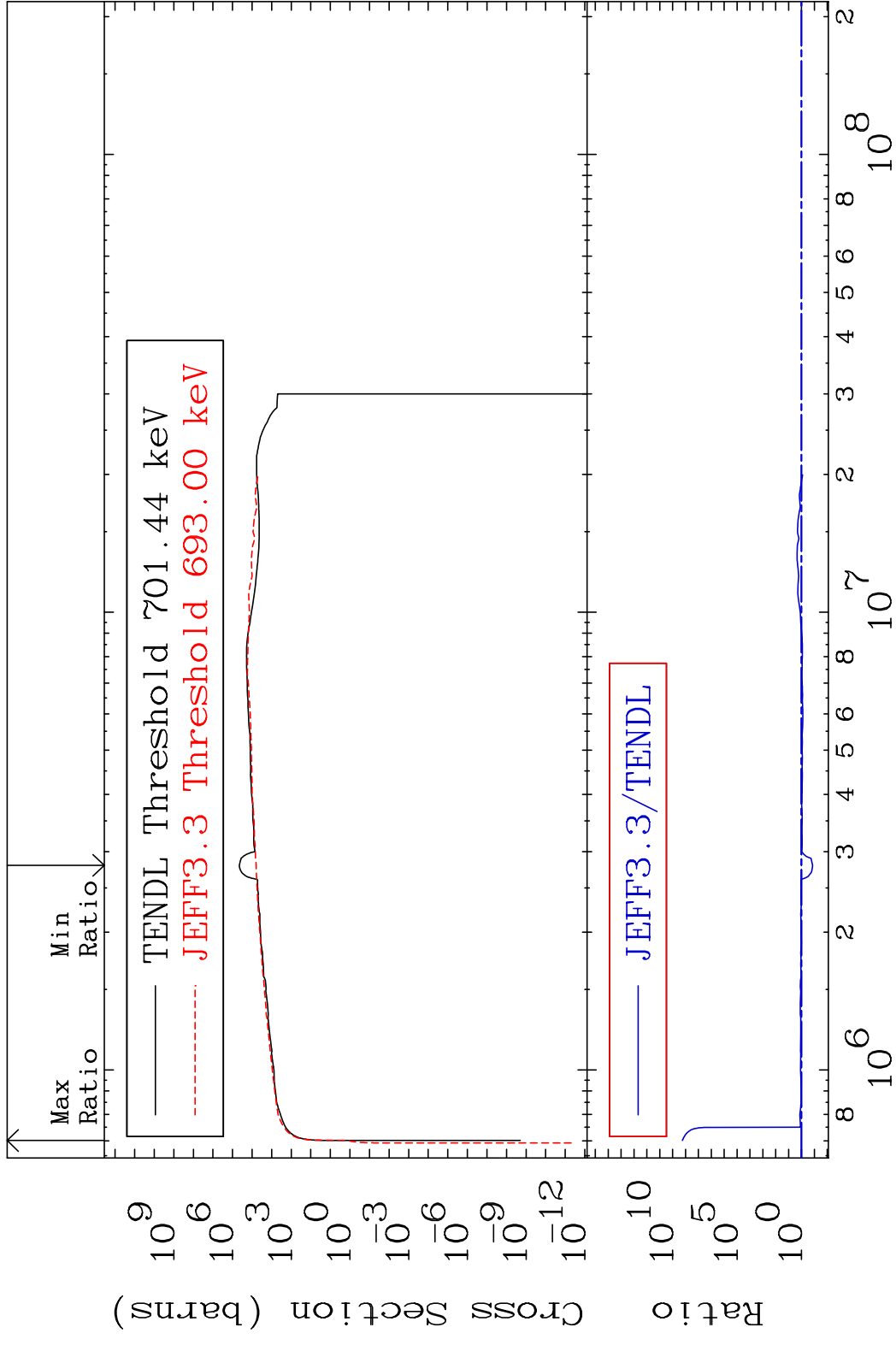
60-Nd-144
-99.98 To 1006. %



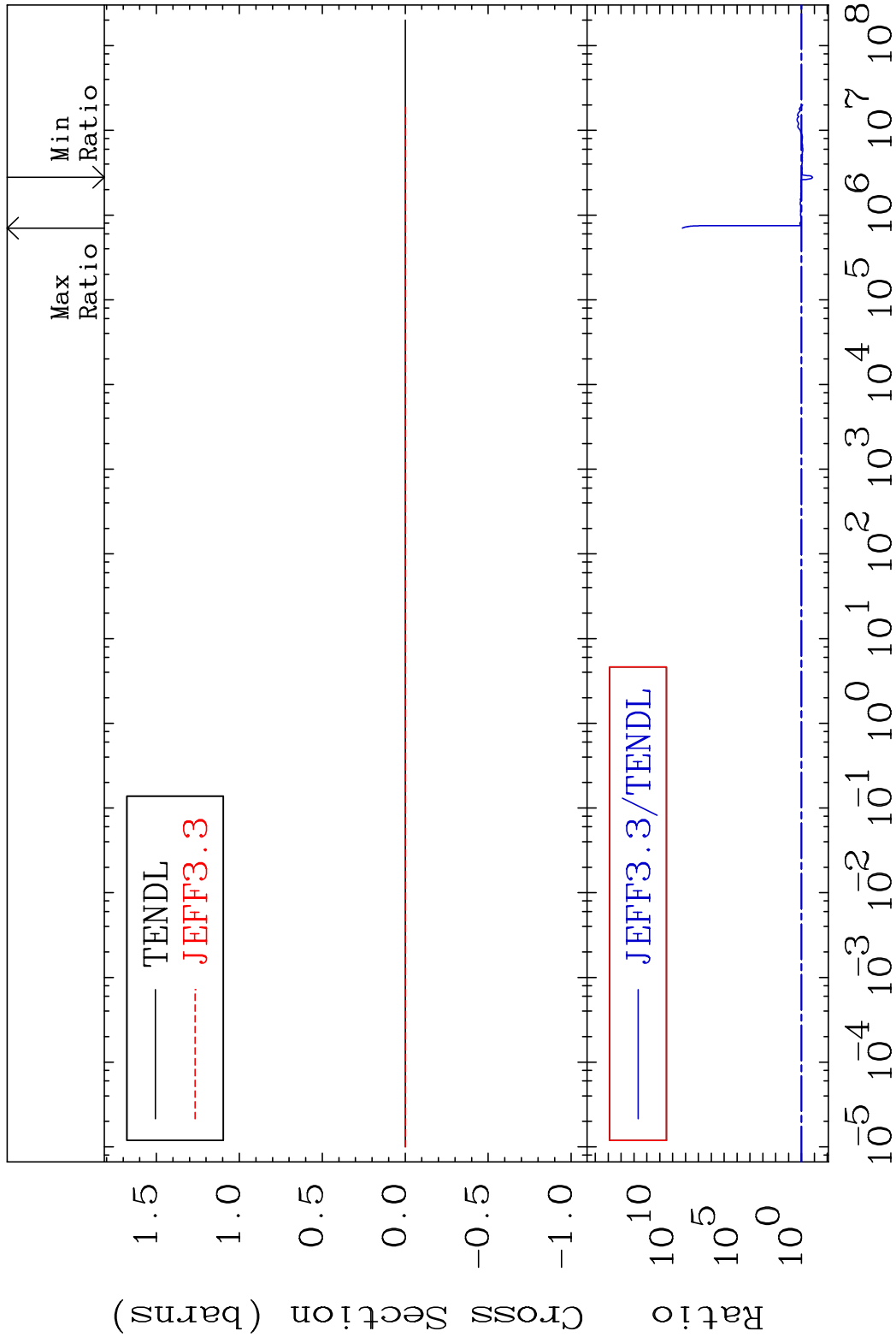
MAT 6031 Kerma non-elastic (all but mt2) 60-Nd-144
 Cross Section -92.09 To 9999. %



MAT 6031 Kerma inelastic (mt51-91) 60-Nd-144
 Cross Section -86.11 To 9999. %



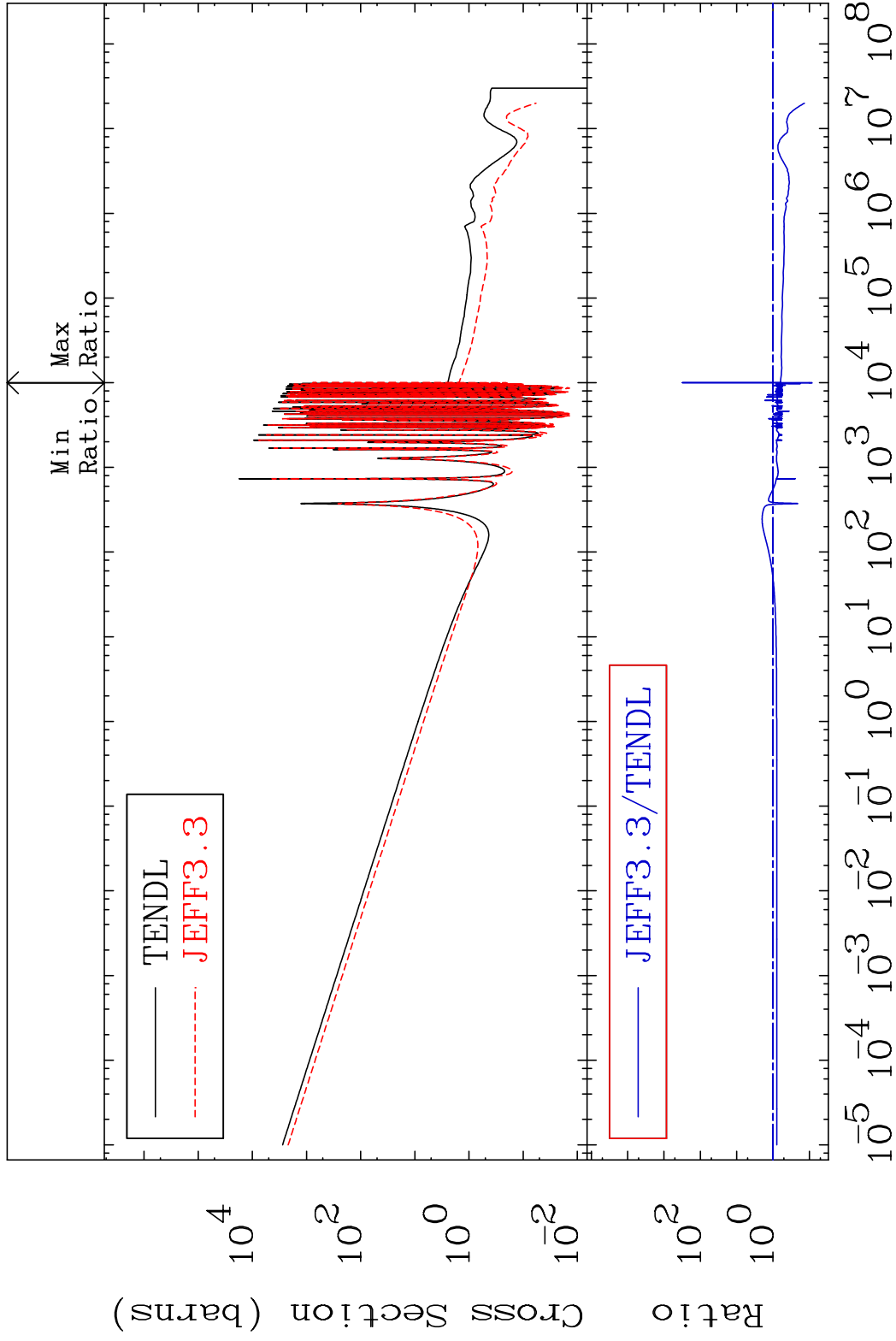
MAT 6031 Kerma fission (mt18 or mt19-20-21-38) ^{60}Nd -144
 Cross Section -86.11 To 9999. %



MAT 6031

Kerma capture (mt102) 60-Nd-144

Cross Section -91.84 To 9999. %

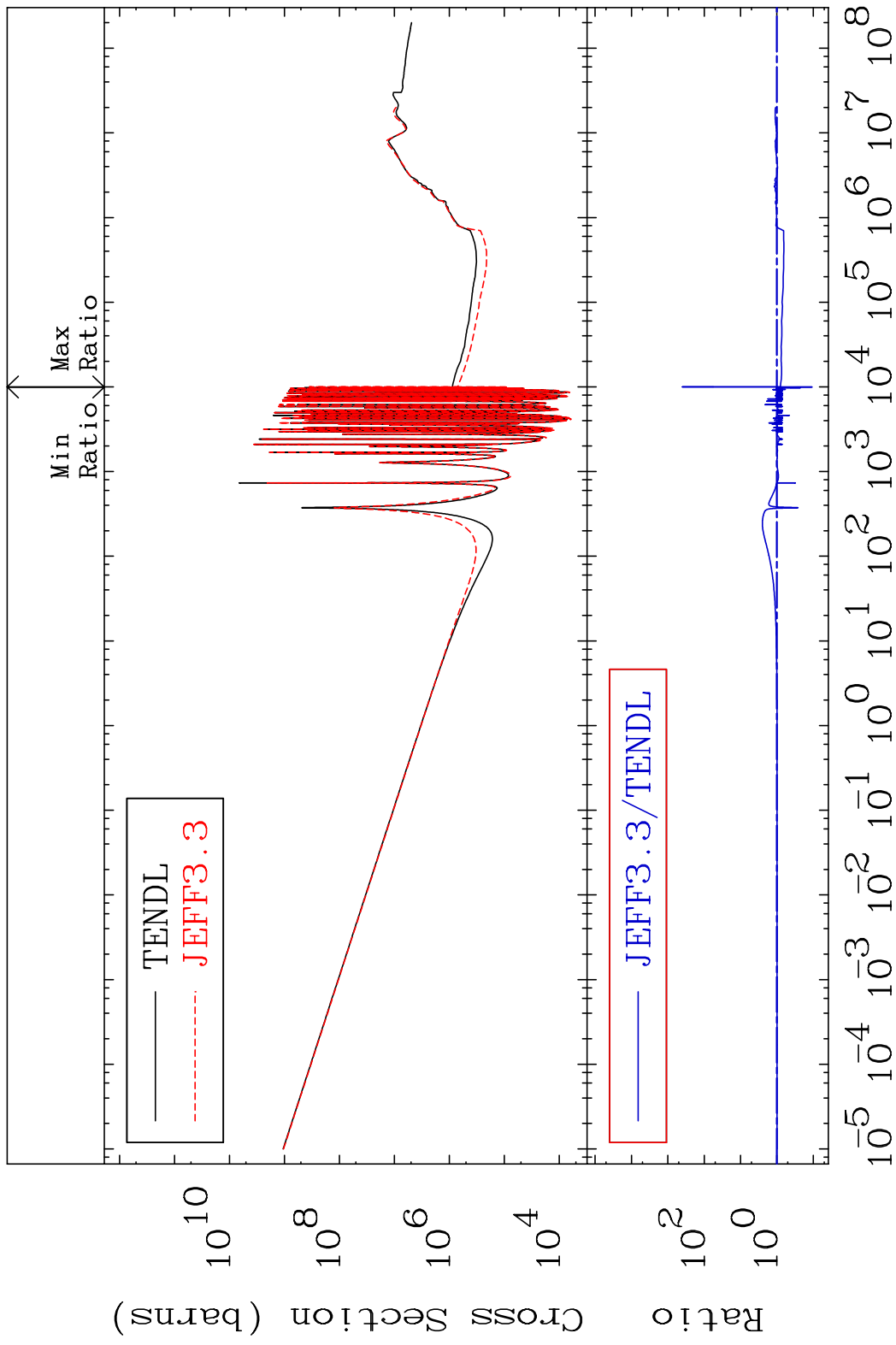


50

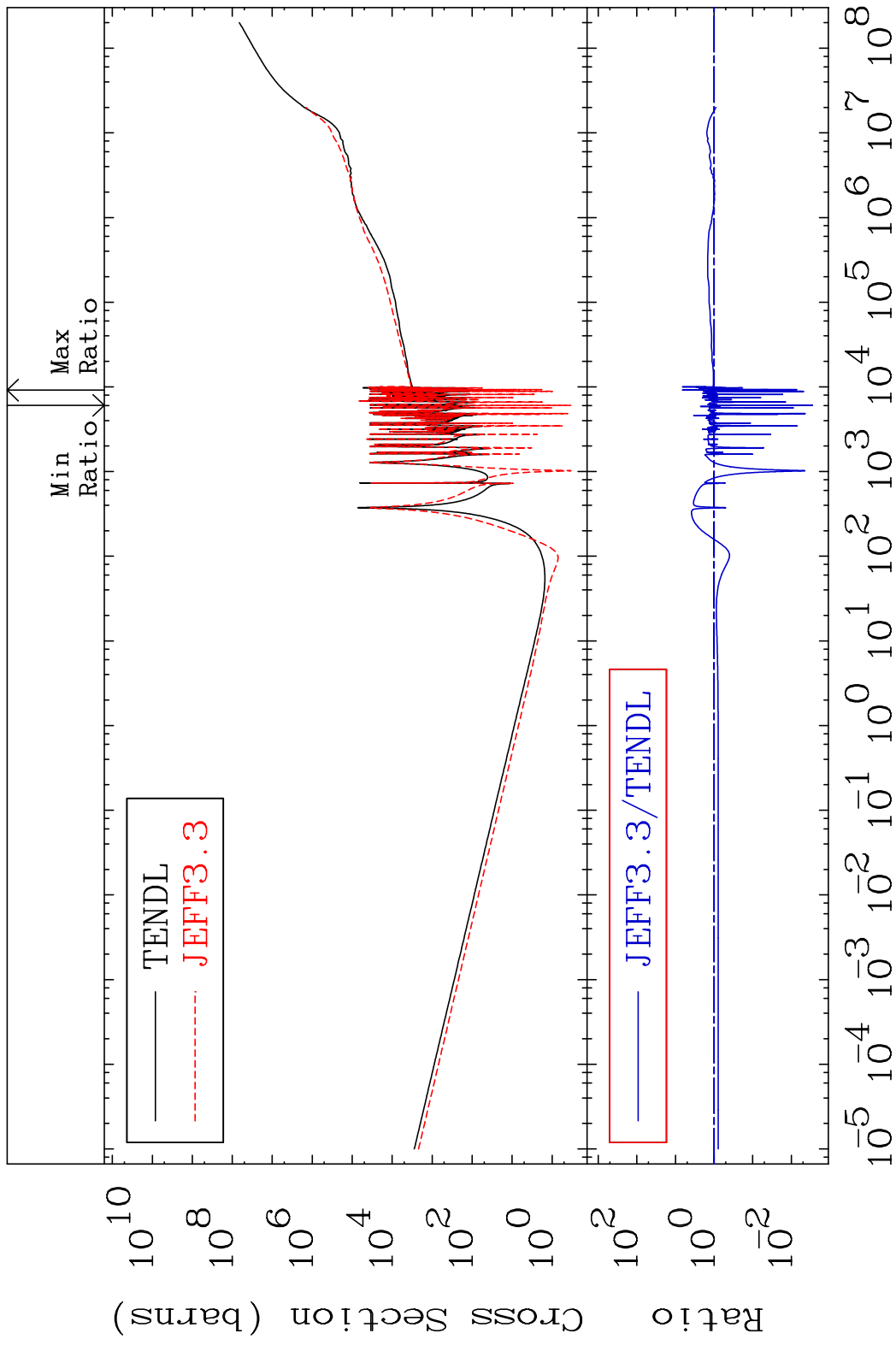
Incident Energy (eV)

60-Nd-144

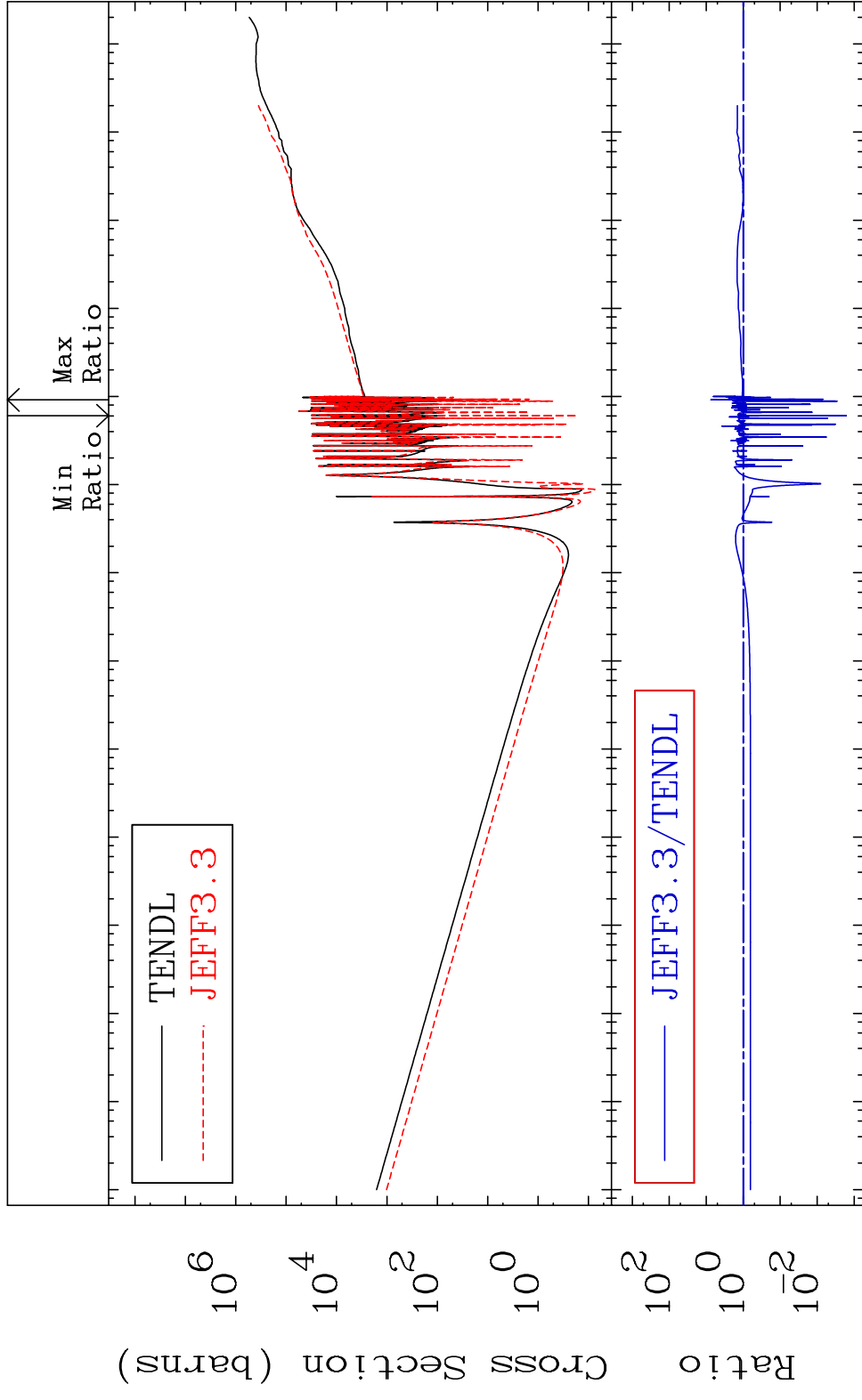
MAT 6031 Total photon (eV-barns) 60-Nd-144
 Cross Section -89.58 To 9999. %



MAT 6031 Total kinematic kerma (high limit) 60-Nd-144
 Cross Section -99.72 To 563.3 %



MAT 6031 Dpa total (eV-barns) 60-Nd-144
 Cross Section -99.84 To 656.6 %



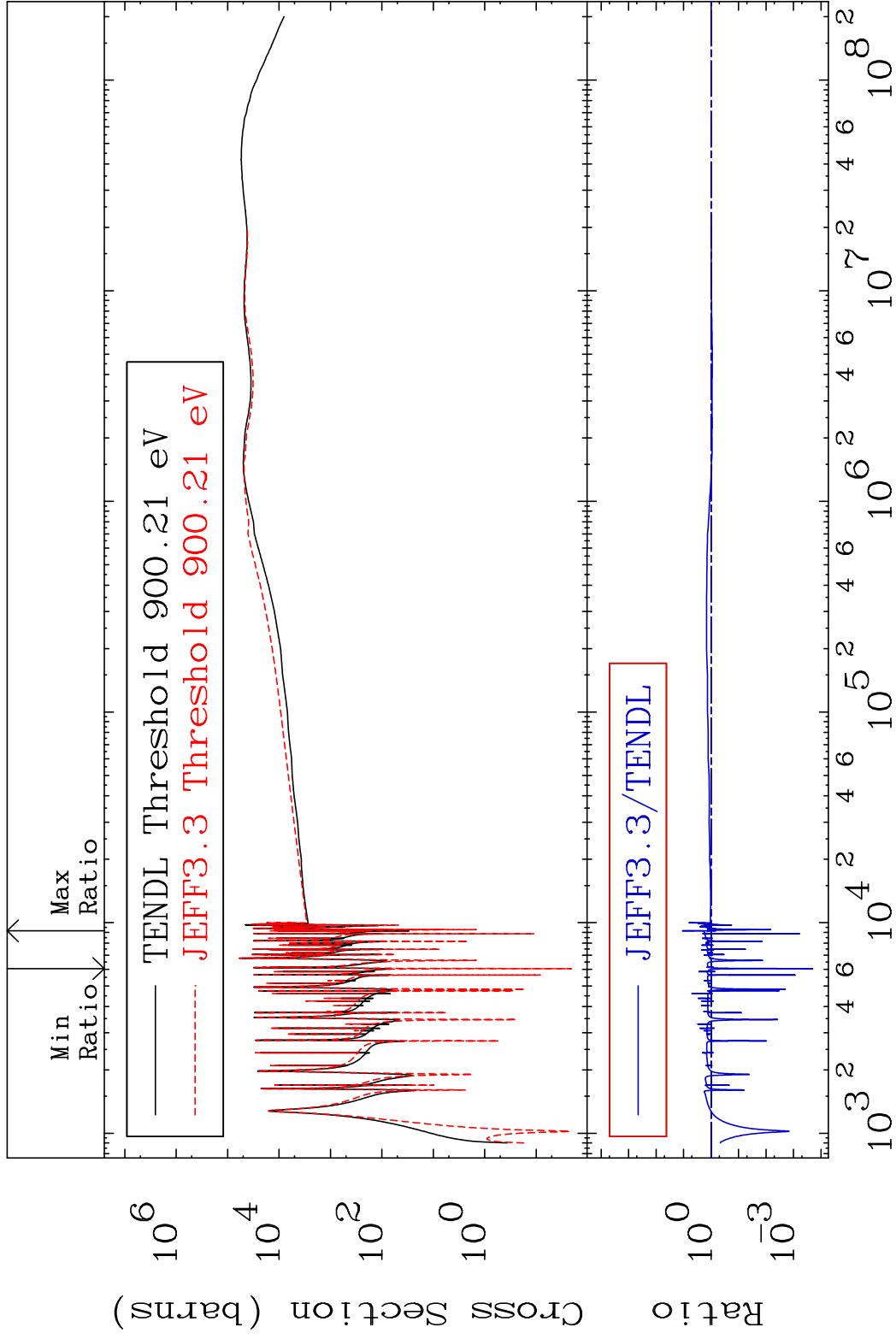
53 Incident Energy (eV) 60-Nd-144

MAT 6031

Dpa elastic (mt2)

60-Nd-144

Cross Section -99.98 To 1007. %

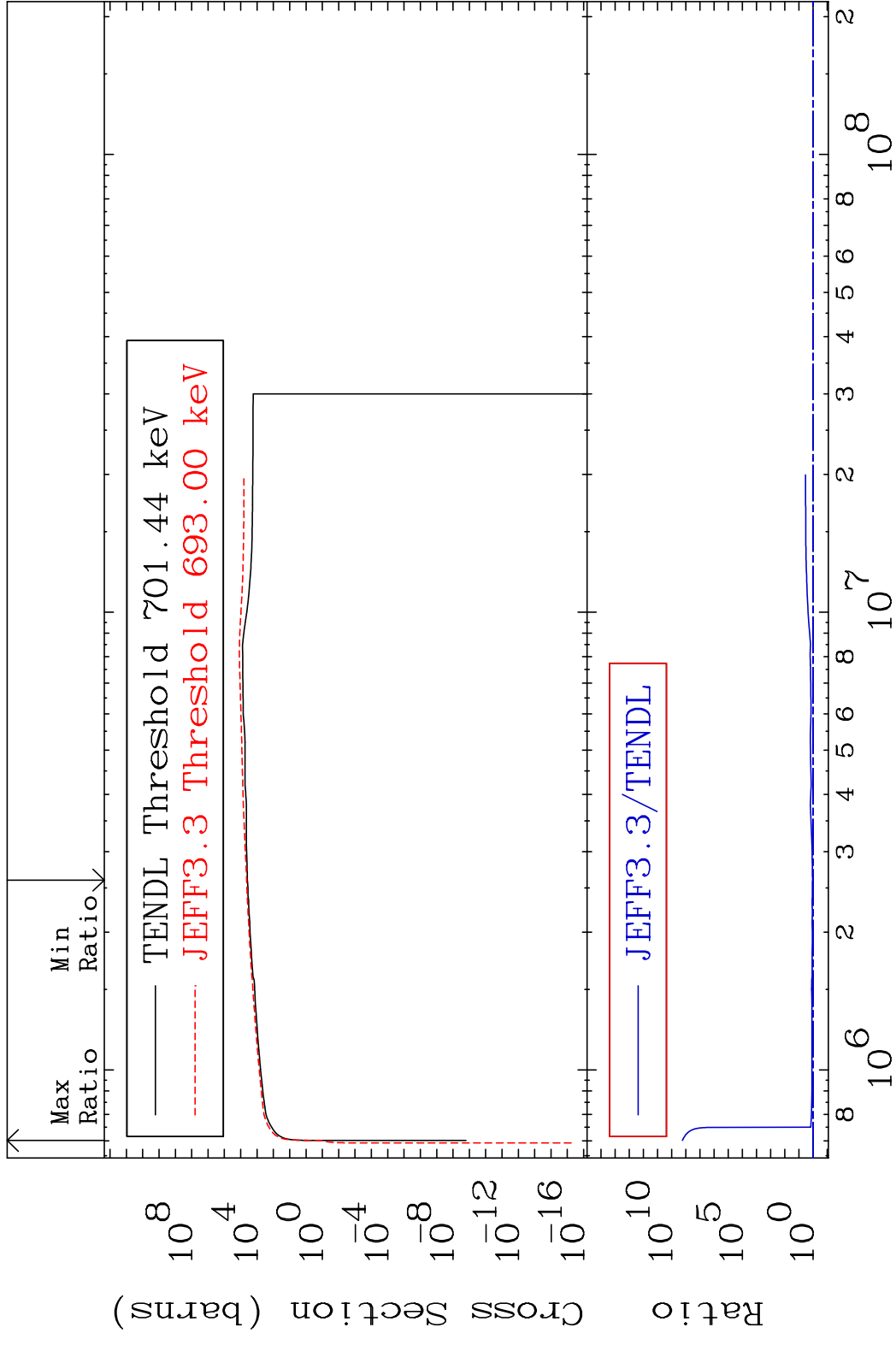


54

Incident Energy (eV)

60-Nd-144

MAT 6031 Dpa inelastic (mt51-91) 60-Nd-144
 Cross Section 9.908 To 9999. %



MAT 6031 Dpa disappearance (mt102 -120) 60-Nd-144
 Cross Section -93.35 To 9999. %

