

Program Complot
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

U.S.A.

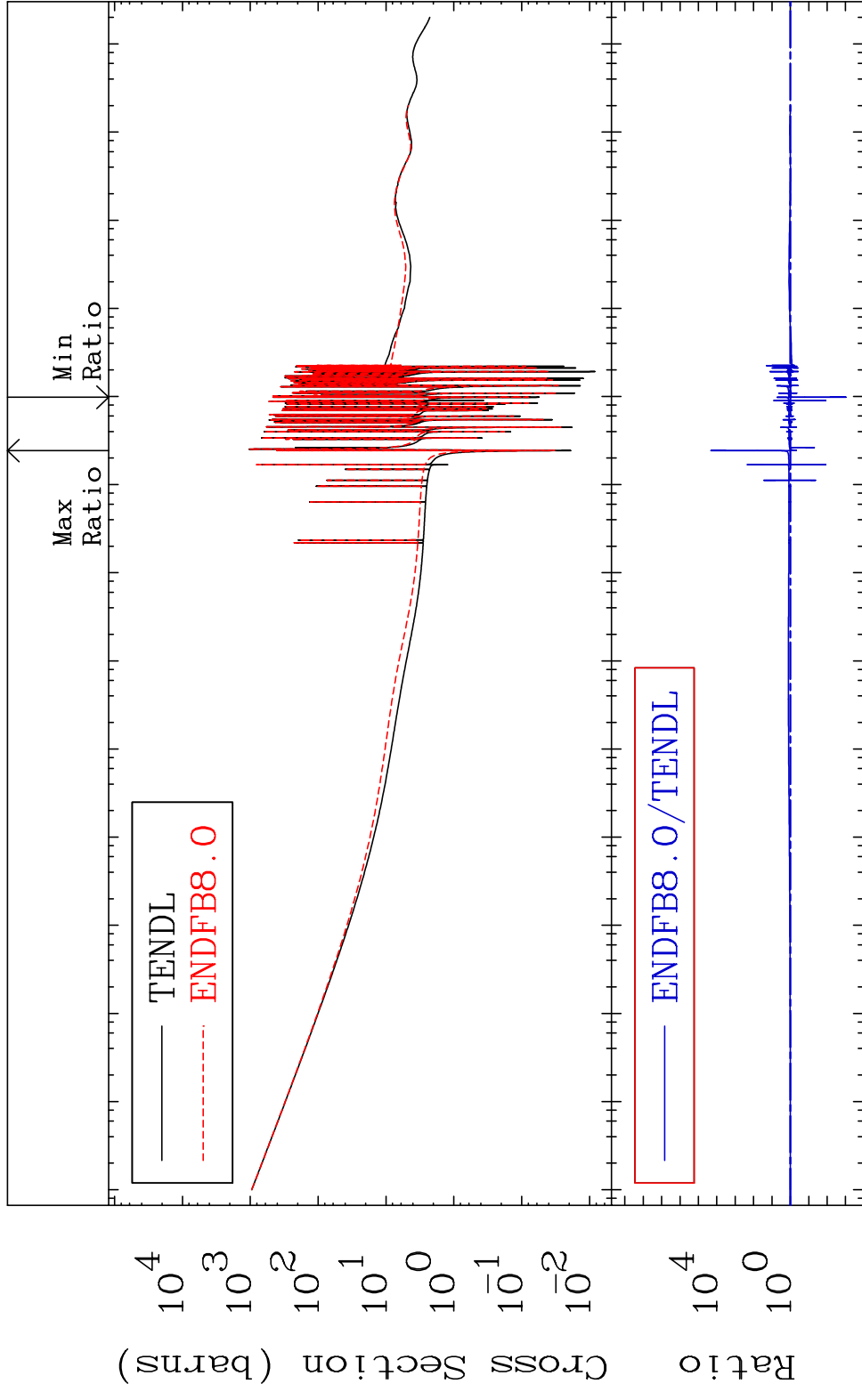
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 6025

Total Cross Section
60-Nd-142
-99.91 To 9999. %



1 Incident Energy (eV) 60-Nd-142

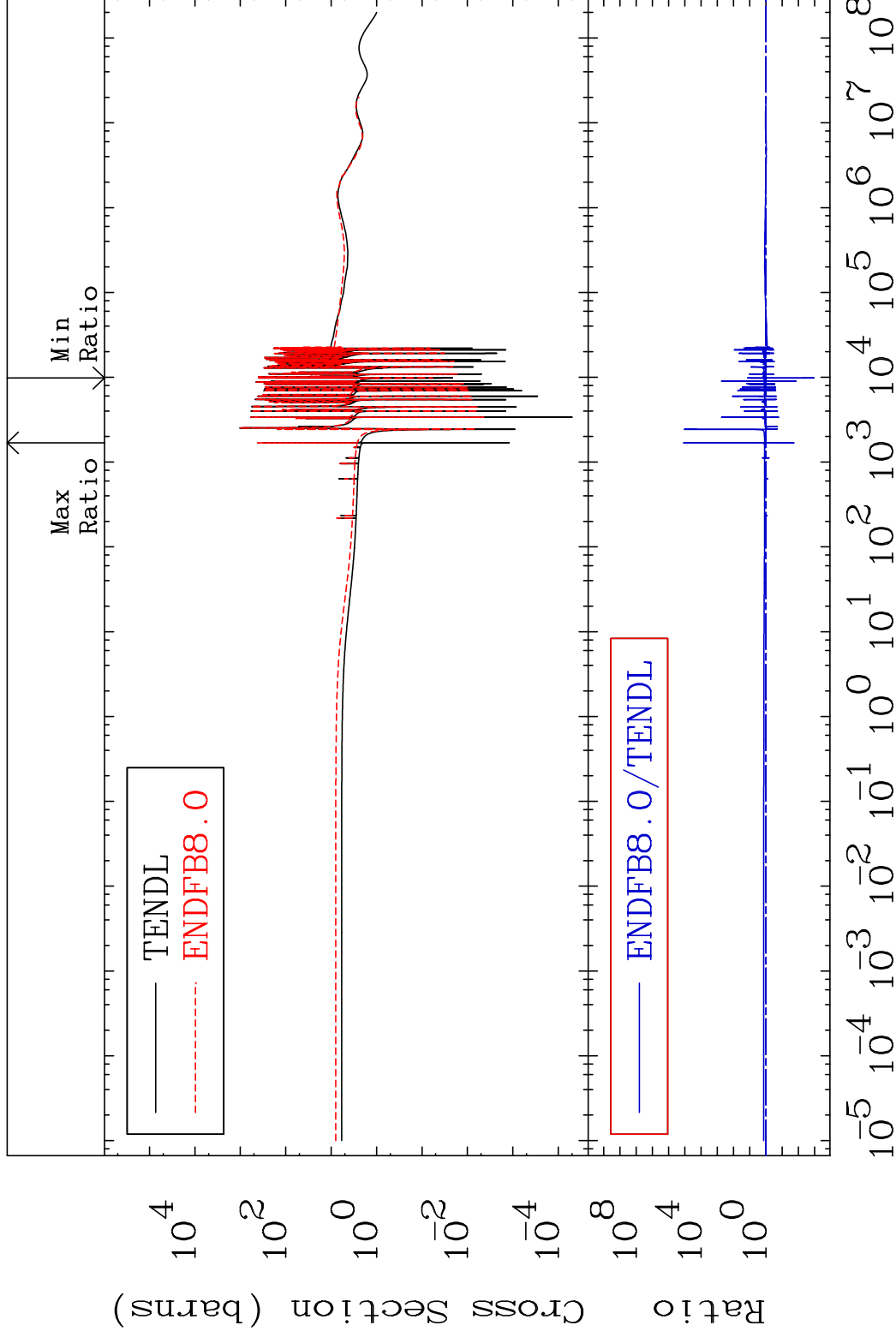
MAT 6025

Elastic

60-Nd-142

Cross Section

-99.89 To 9999. %

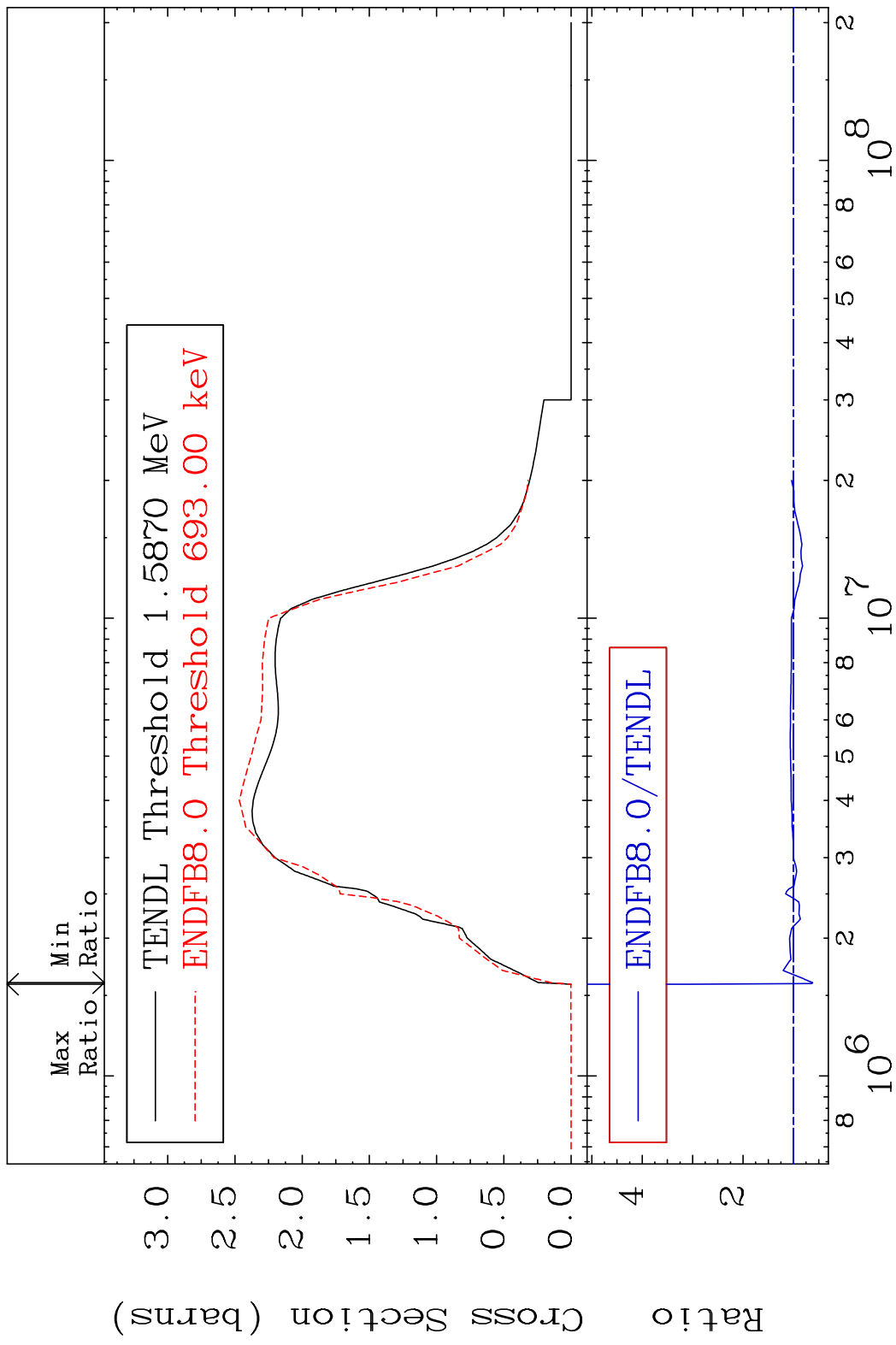


2

Incident Energy (eV)

60-Nd-142

MAT 6025 Inelastic 60-Nd-142
 Cross Section -37.87 To 220.4 %



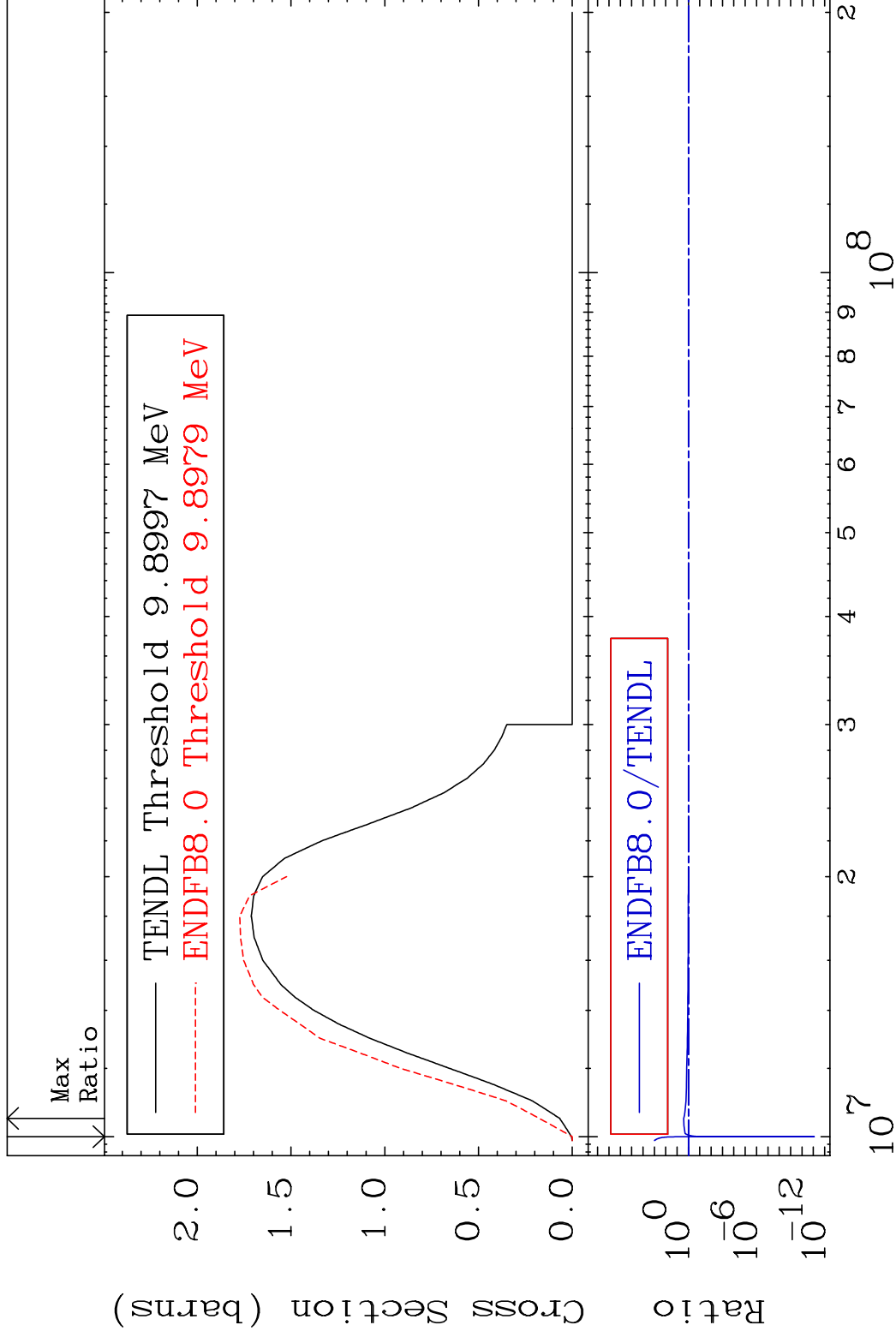
3 Incident Energy (eV) 60-Nd-142

MAT 6025

(n,2n)

60-Nd-142

Cross Section -100.0 To 163.5 %



Incident Energy (eV)

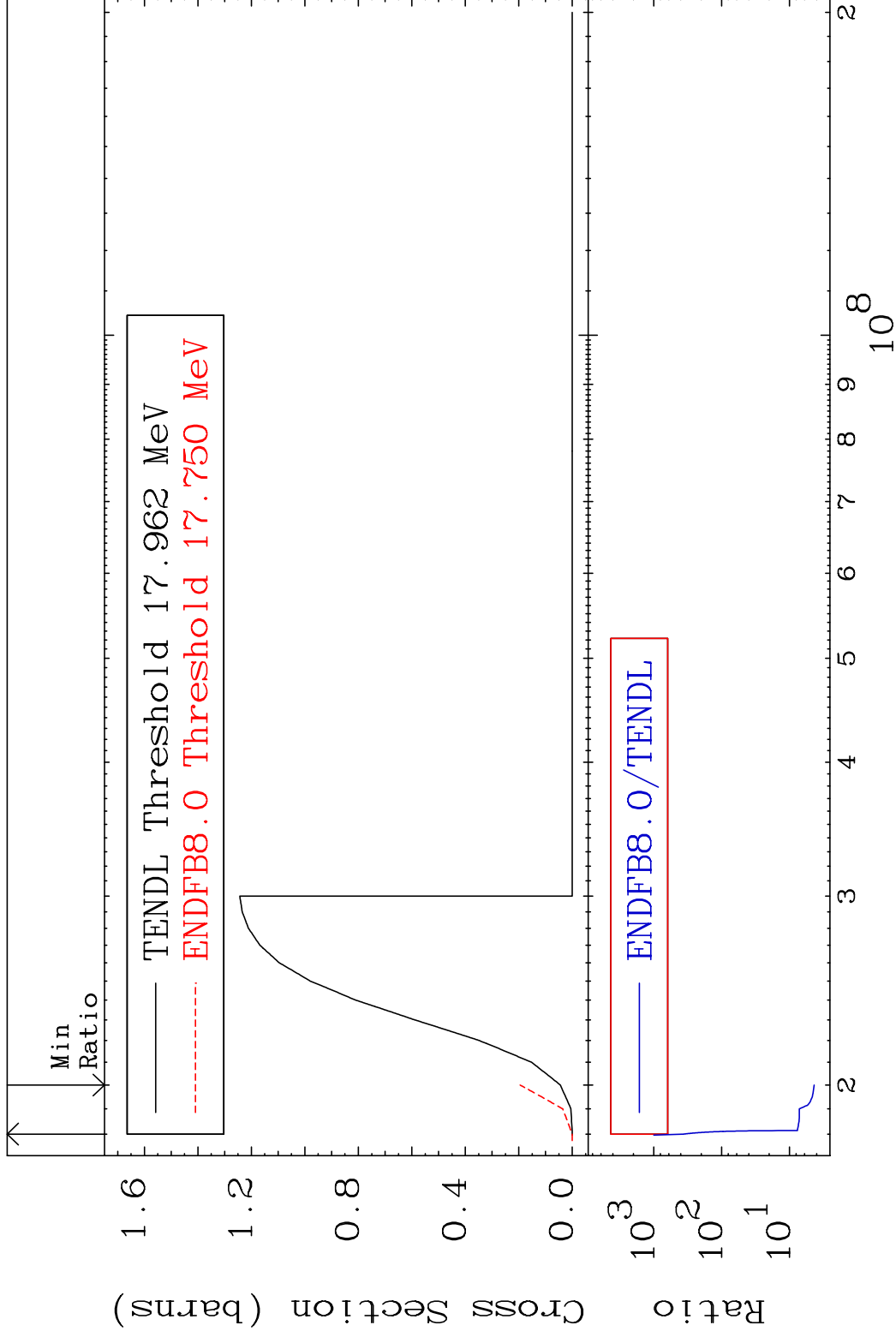
60-Nd-142

MAT 6025

(n,3n)

60-Nd-142

Cross Section 335.4 To 9999. %



5

Incident Energy (eV)

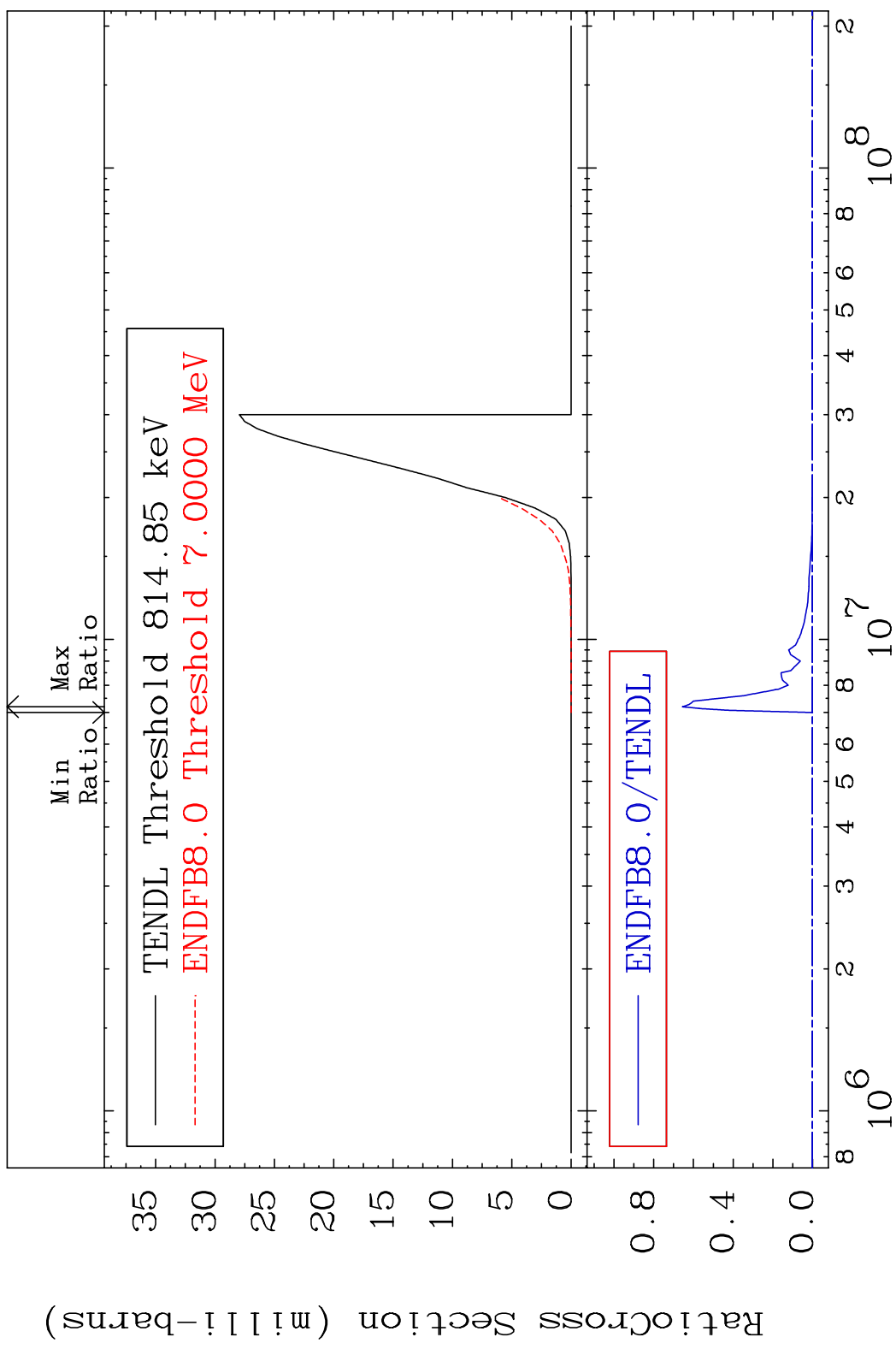
60-Nd-142

MAT 6025

(n, n') α

60-Nd-142

Cross Section -100.0 To 9999. %

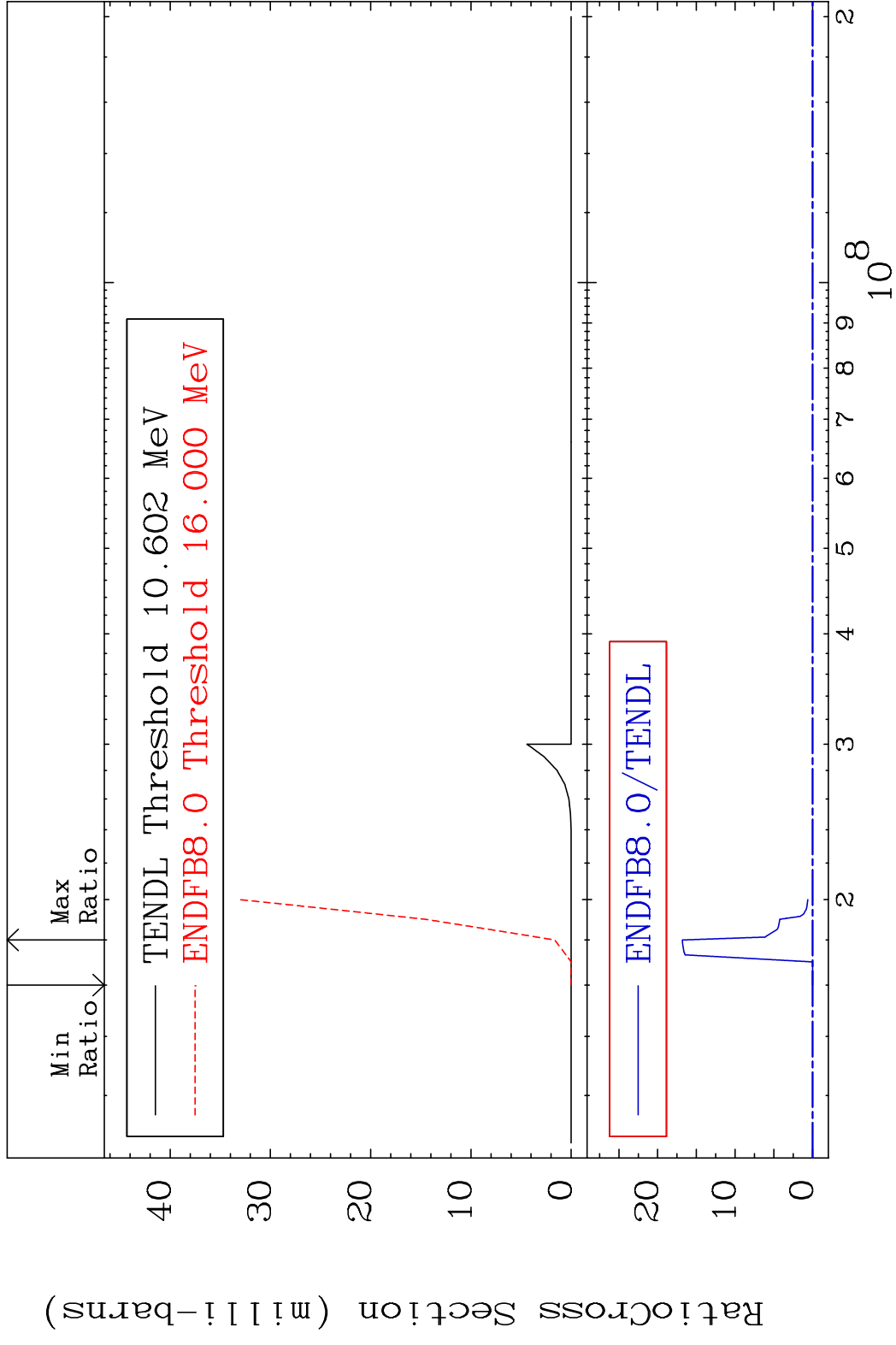


6

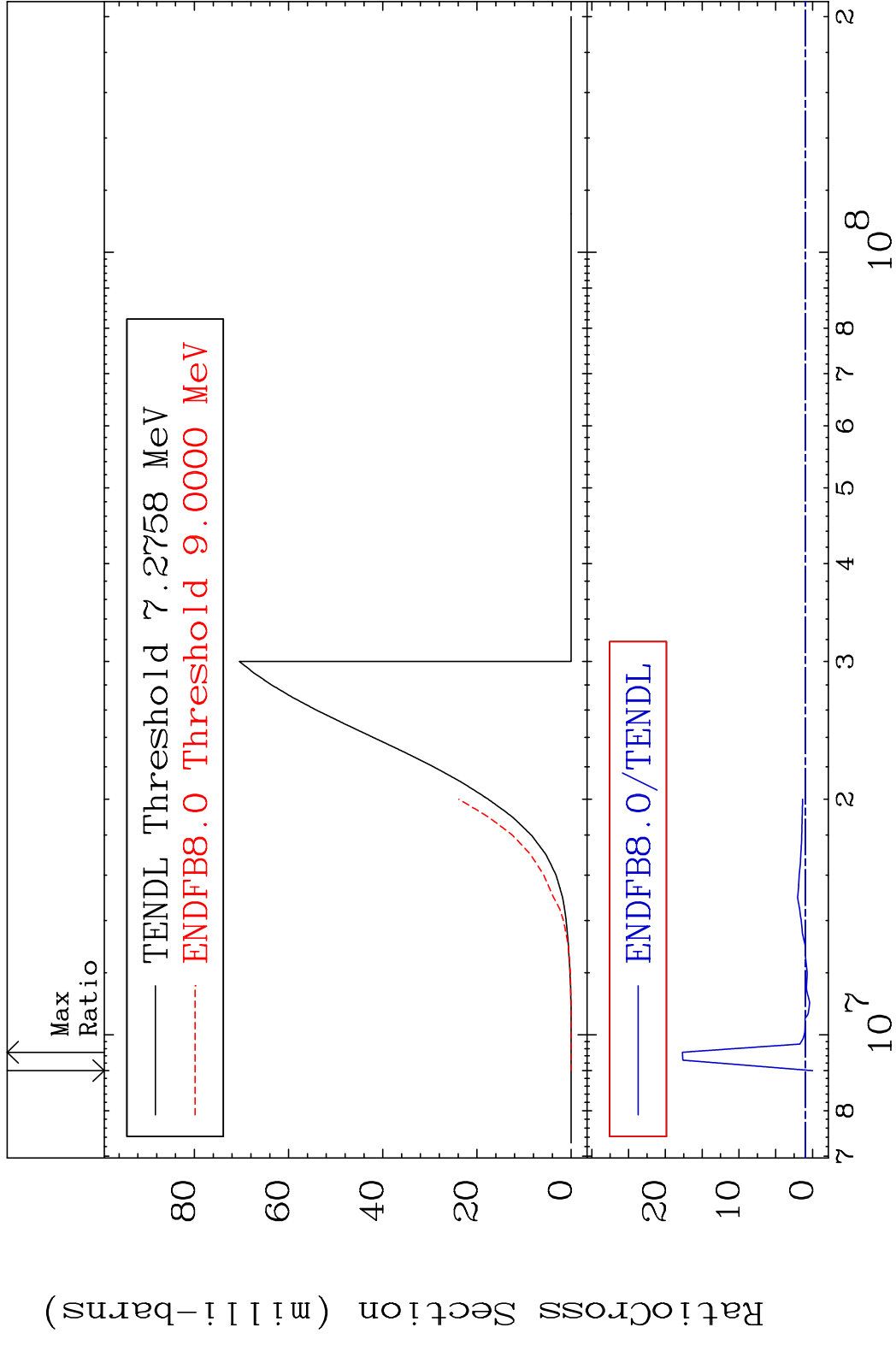
Incident Energy (eV)

60-Nd-142

MAT 6025 (n,2n) α 60-Nd-142
 Cross Section -100.0 To 9999. %

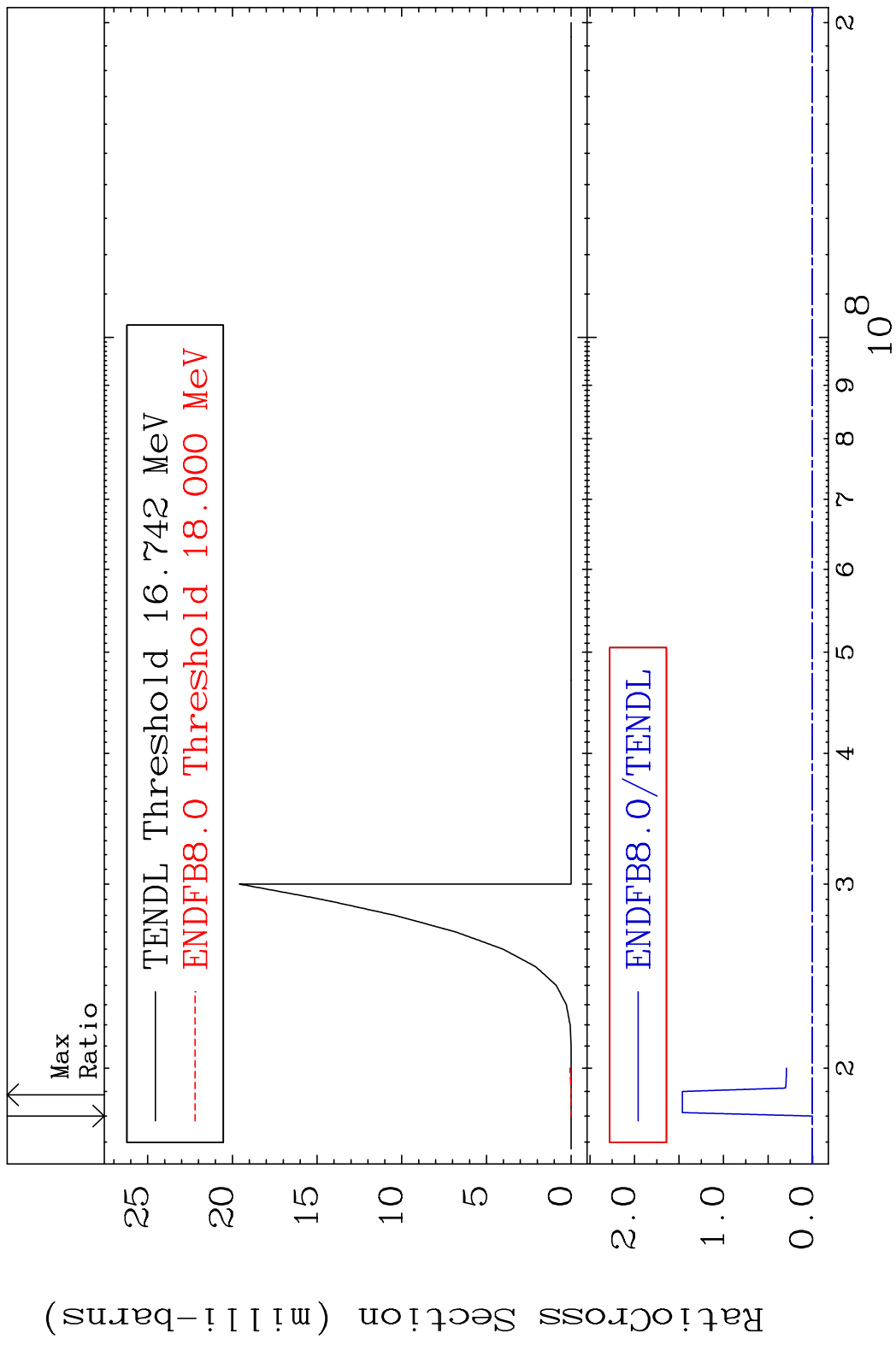


MAT 6025 (n, n') p 60-Nd-142
 Cross Section -100.0 To 1669. %

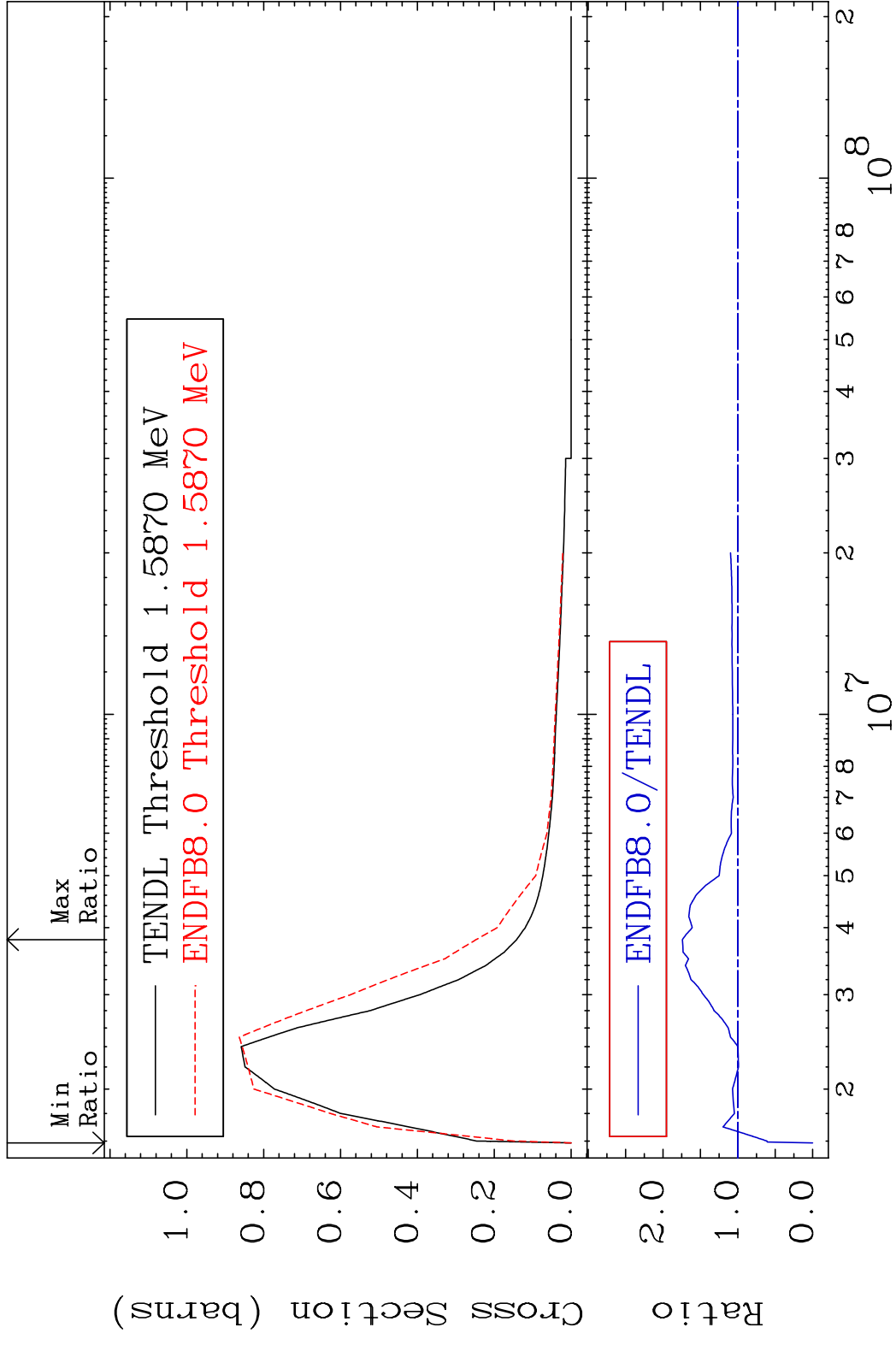


8 7 8 10⁷ 2 3 4 5 6 7 8 10⁸ 2 60-Nd-142

MAT 6025 (n,2n) p 60-Nd-142
 Cross Section -100.0 To 9999. %

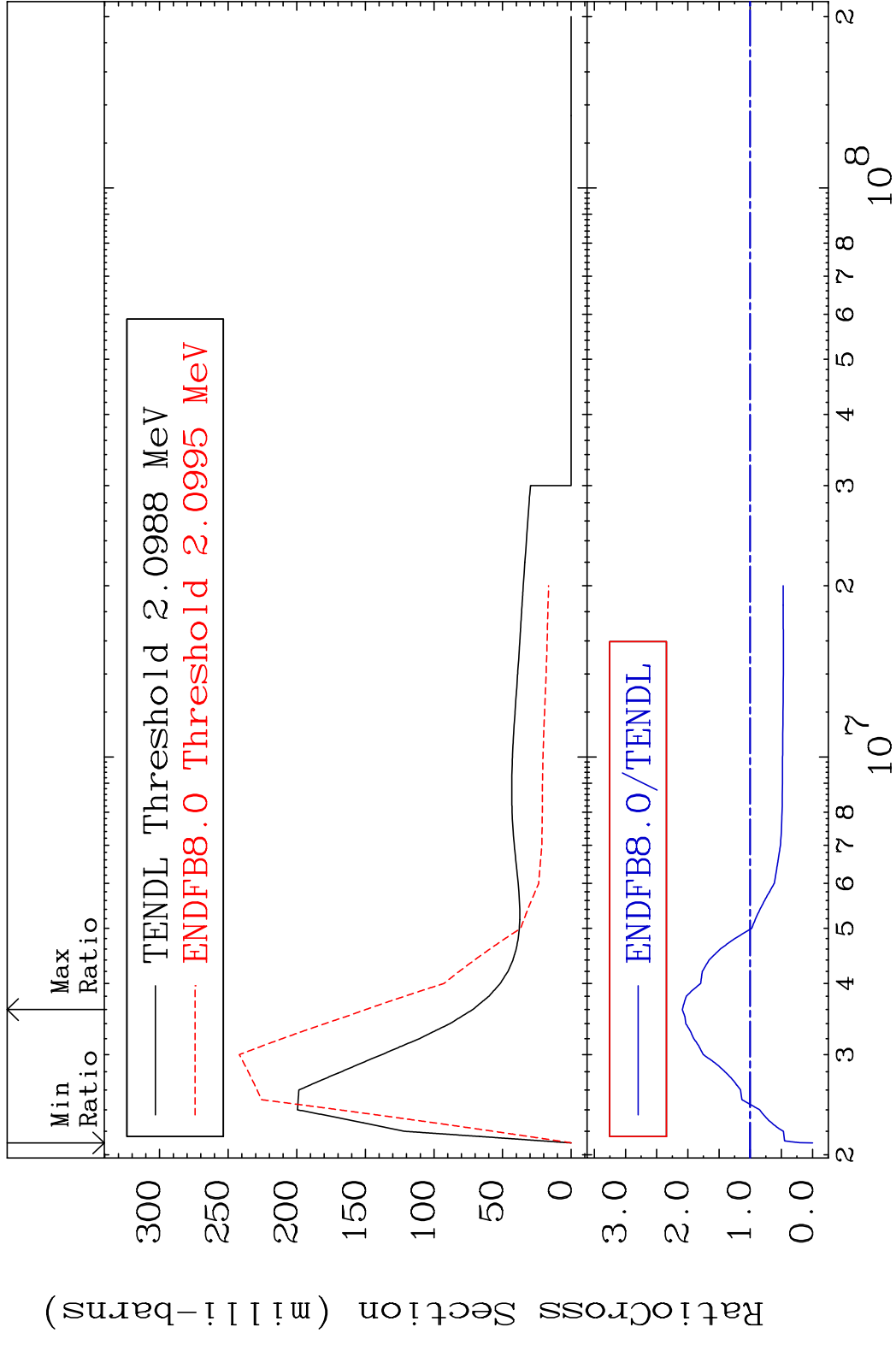


MAT 6025 MT= 51 (n,n') Level 60-Nd-142
 Cross Section -100.0 To 74.12 %

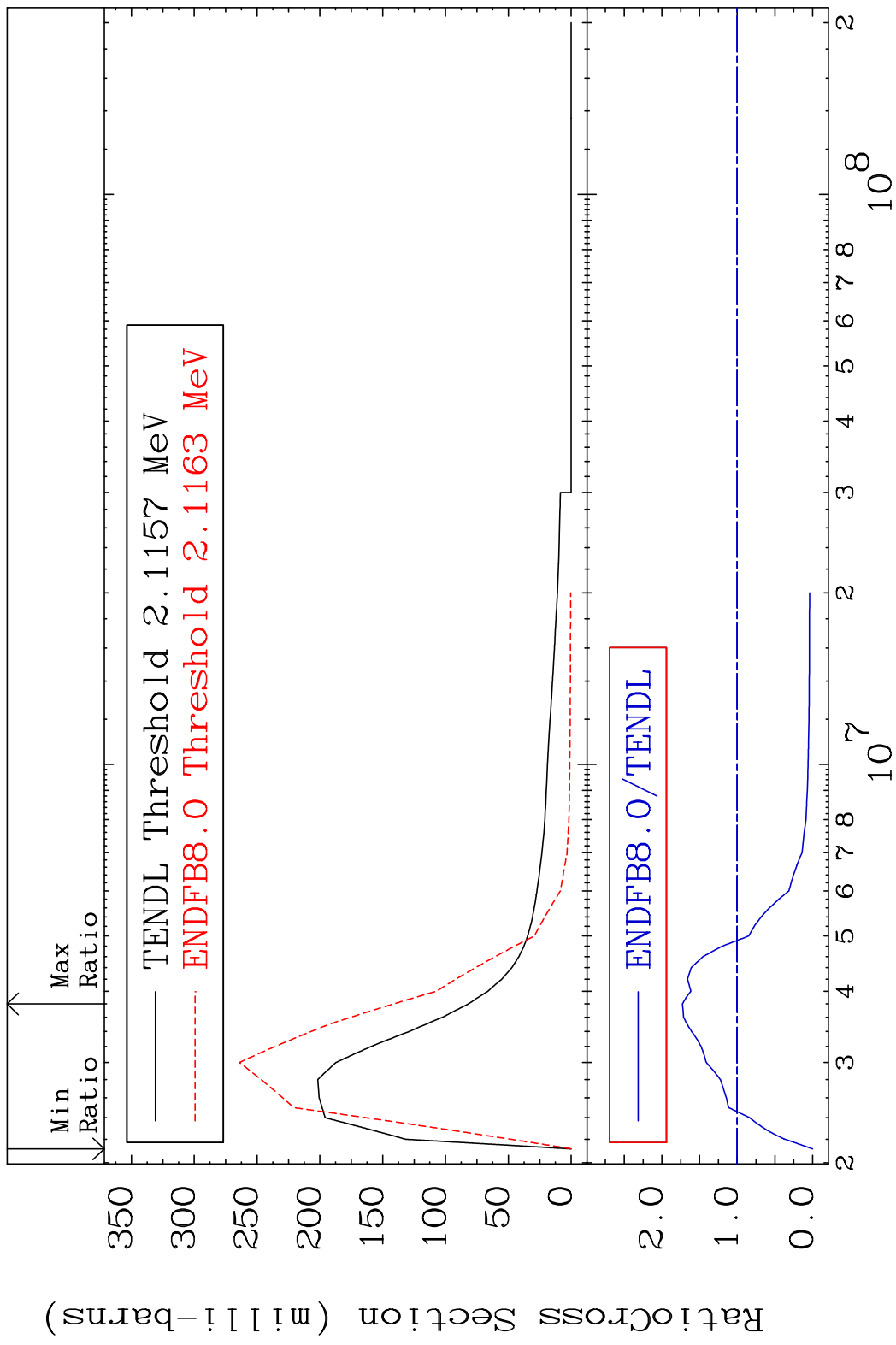


10 Incident Energy (eV) 60-Nd-142

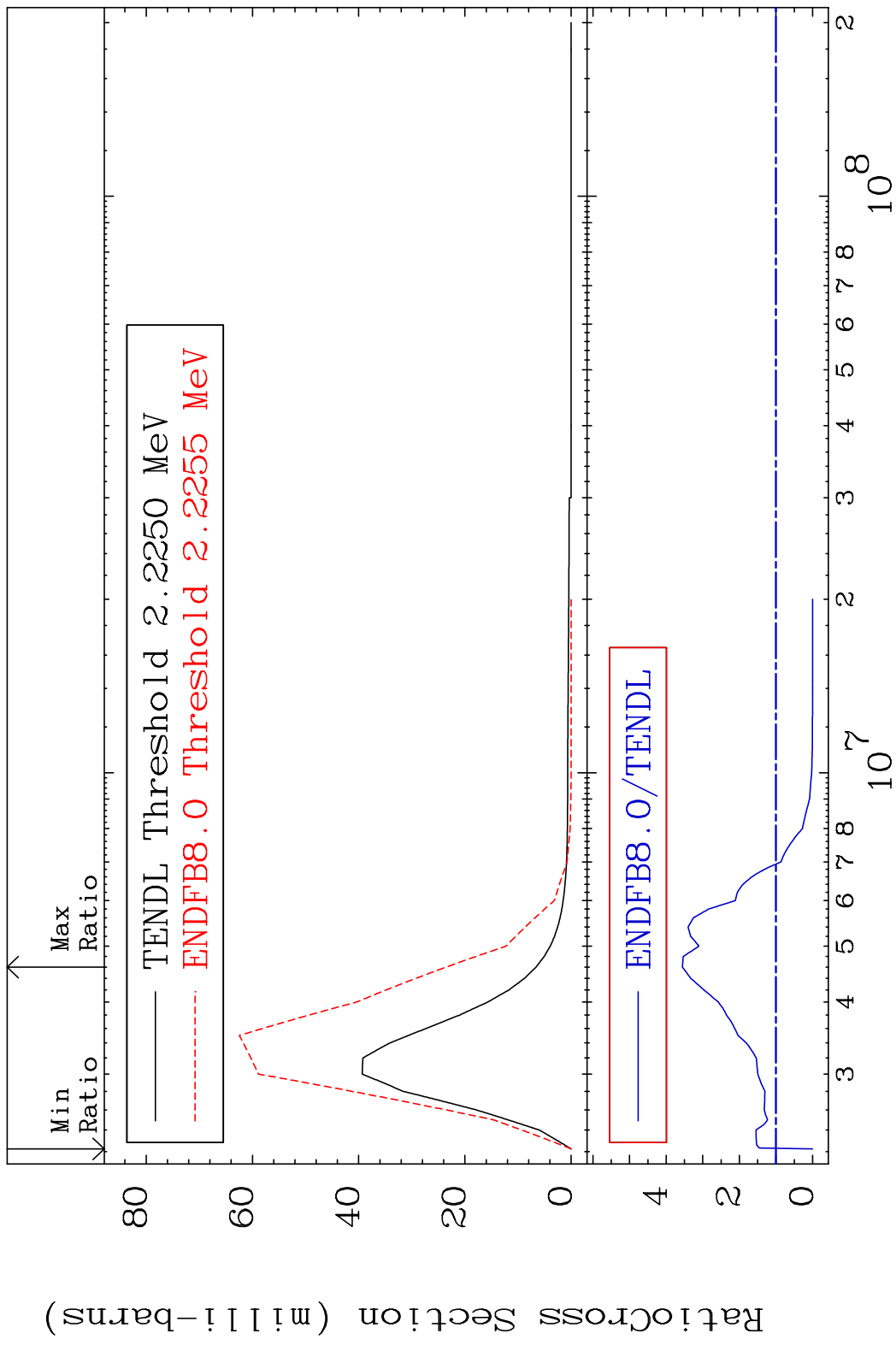
MAT 6025 MT= 52 (n, n') Level 60-Nd-142
 Cross Section -100.0 To 108.9 %



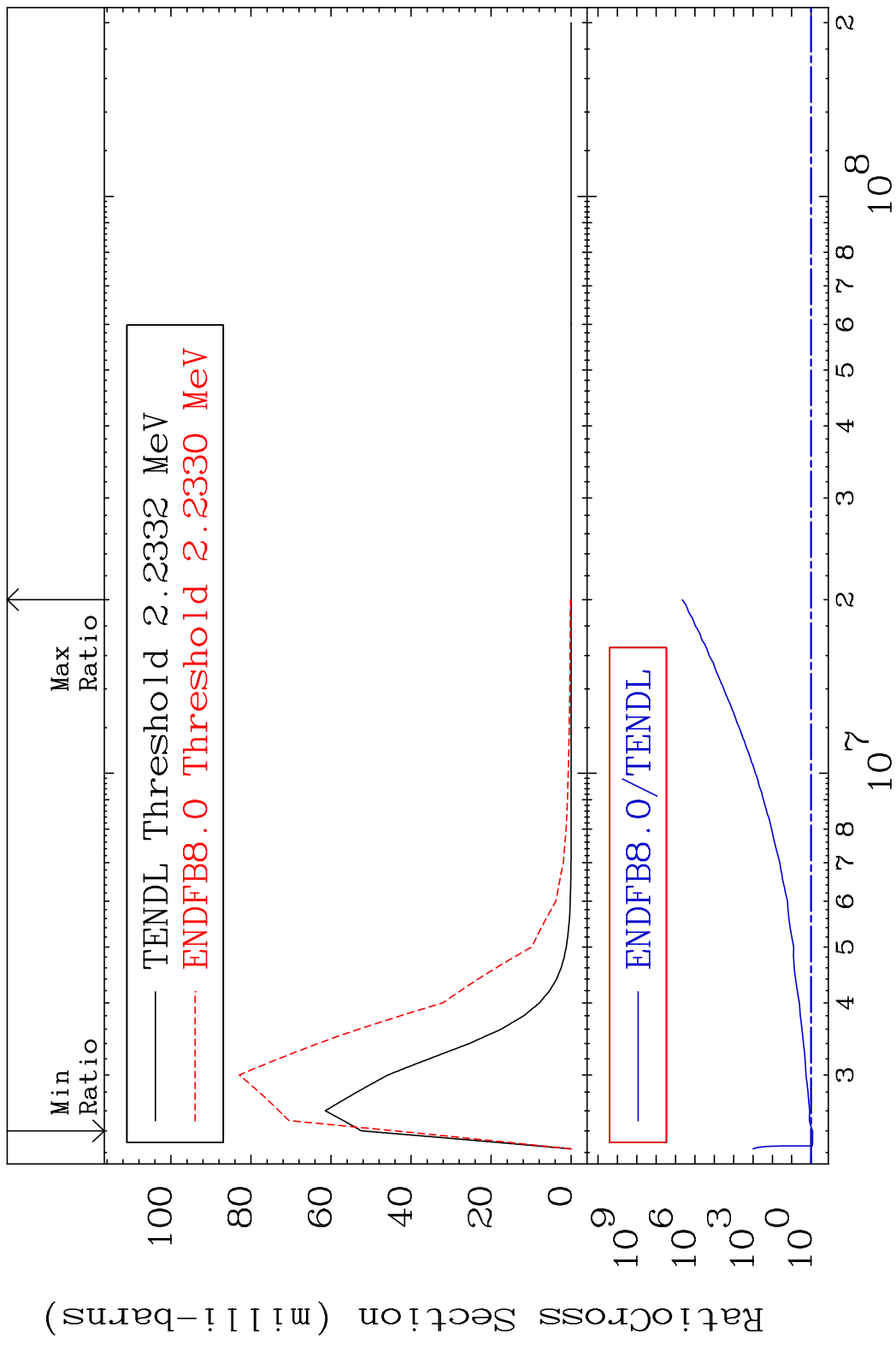
MAT 6025 MT= 53 (n,n') Level 60-Nd-142
 Cross Section -100.0 To 72.84 %



MAT 6025 MT= 54 (n, n') Level 60-Nd-142
 Cross Section -100.0 To 255.8 %

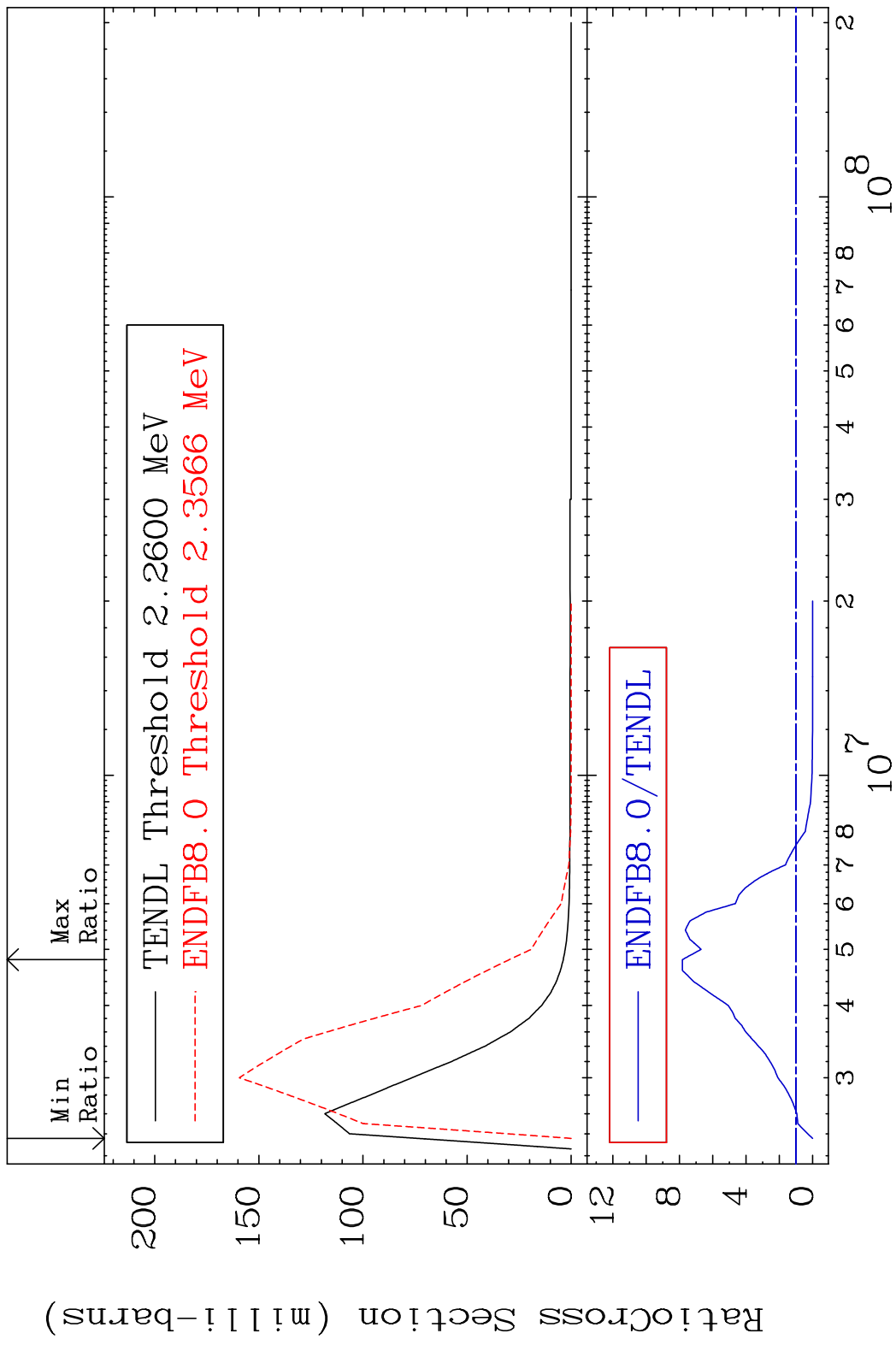


MAT 6025 MT= 55 (n, n') Level 60-Nd-142
 Cross Section -15.81 To 9999. %



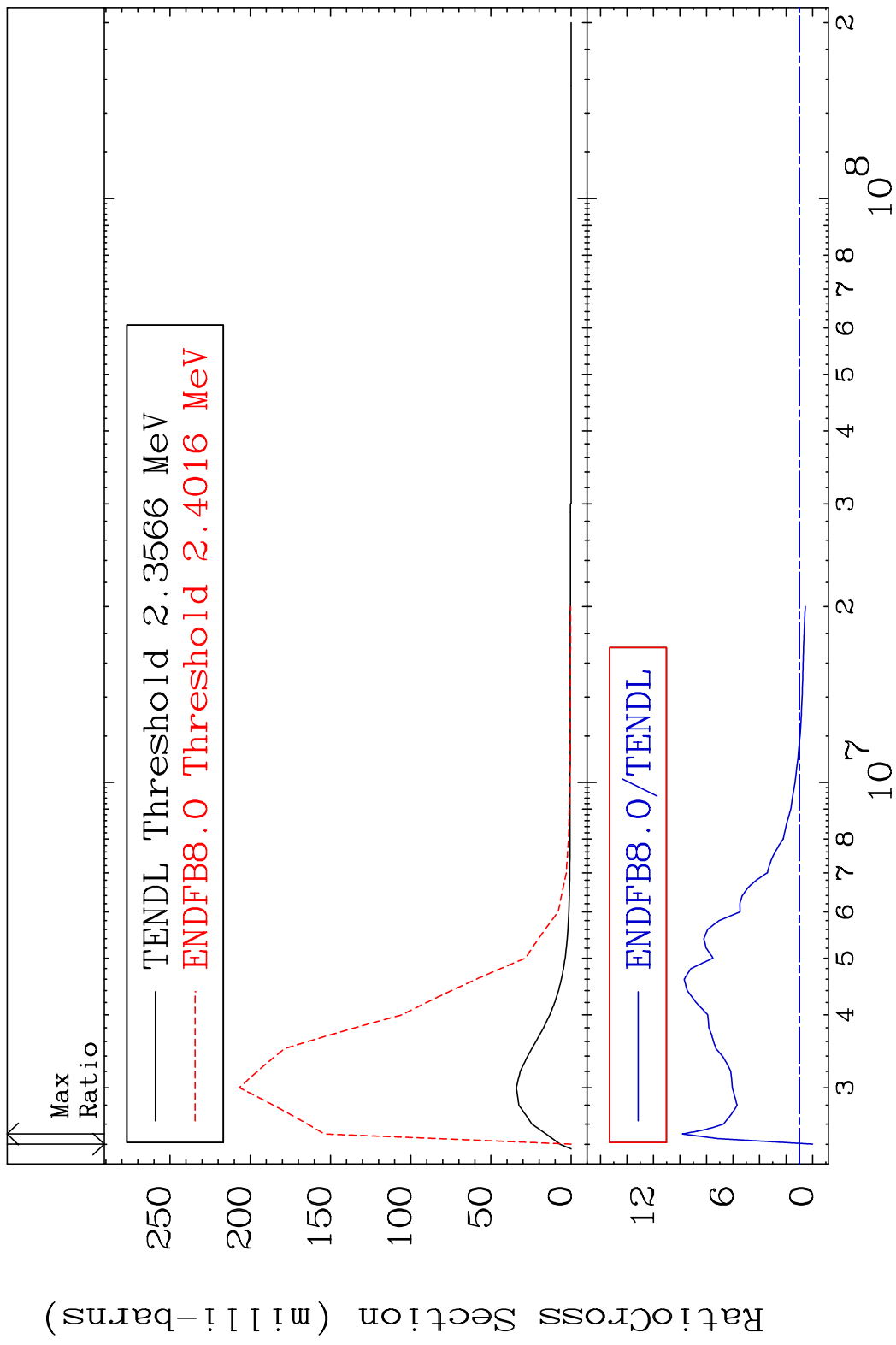
14 Incident Energy (eV) 60-Nd-142

MAT 6025 MT= 56 (n,n') Level 60-Nd-142
 Cross Section -100.0 To 682.6 %



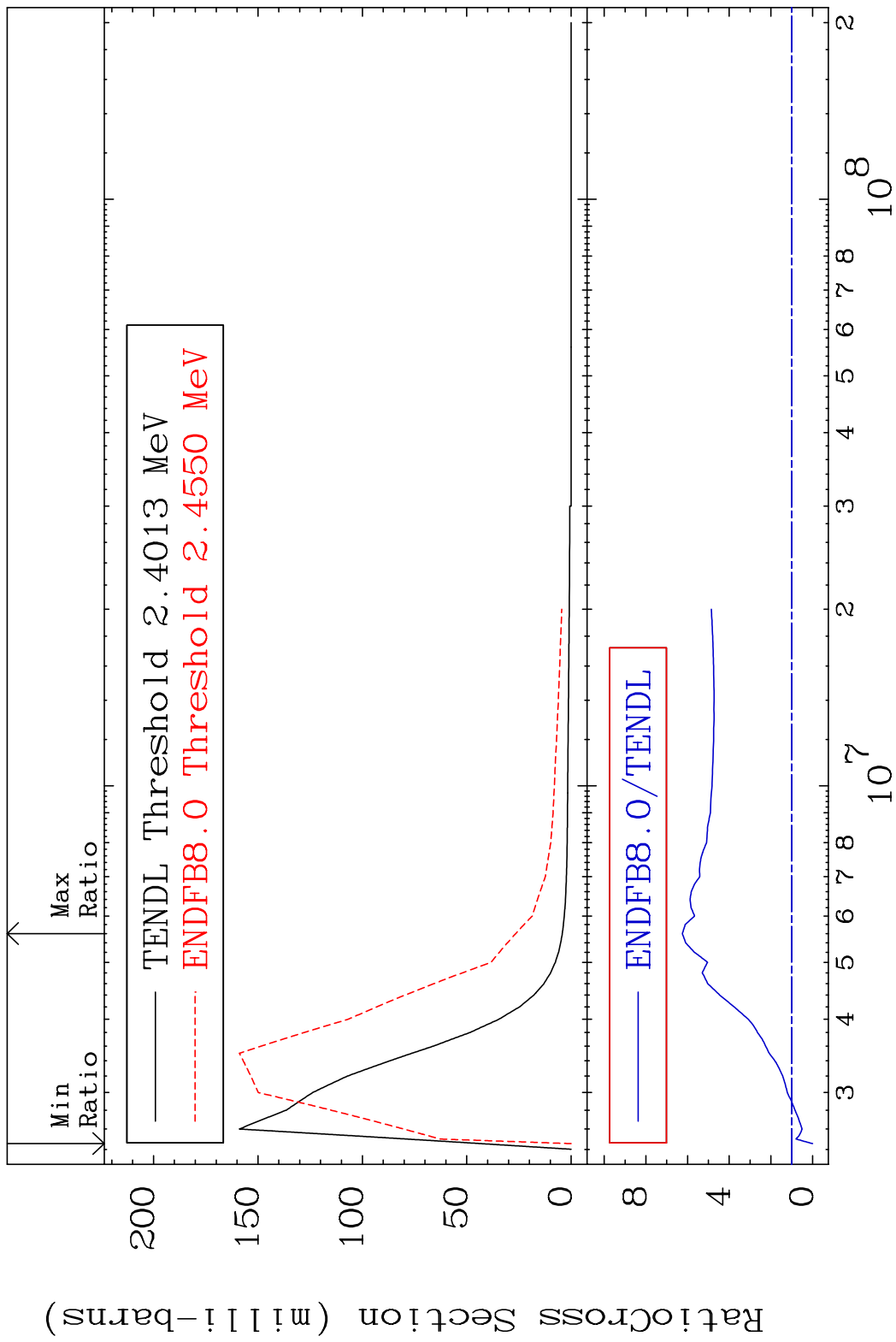
15 60-Nd-142

MAT 6025 MT= 57 (n,n') Level 60-Nd-142
 Cross Section -100.0 To 882.1 %



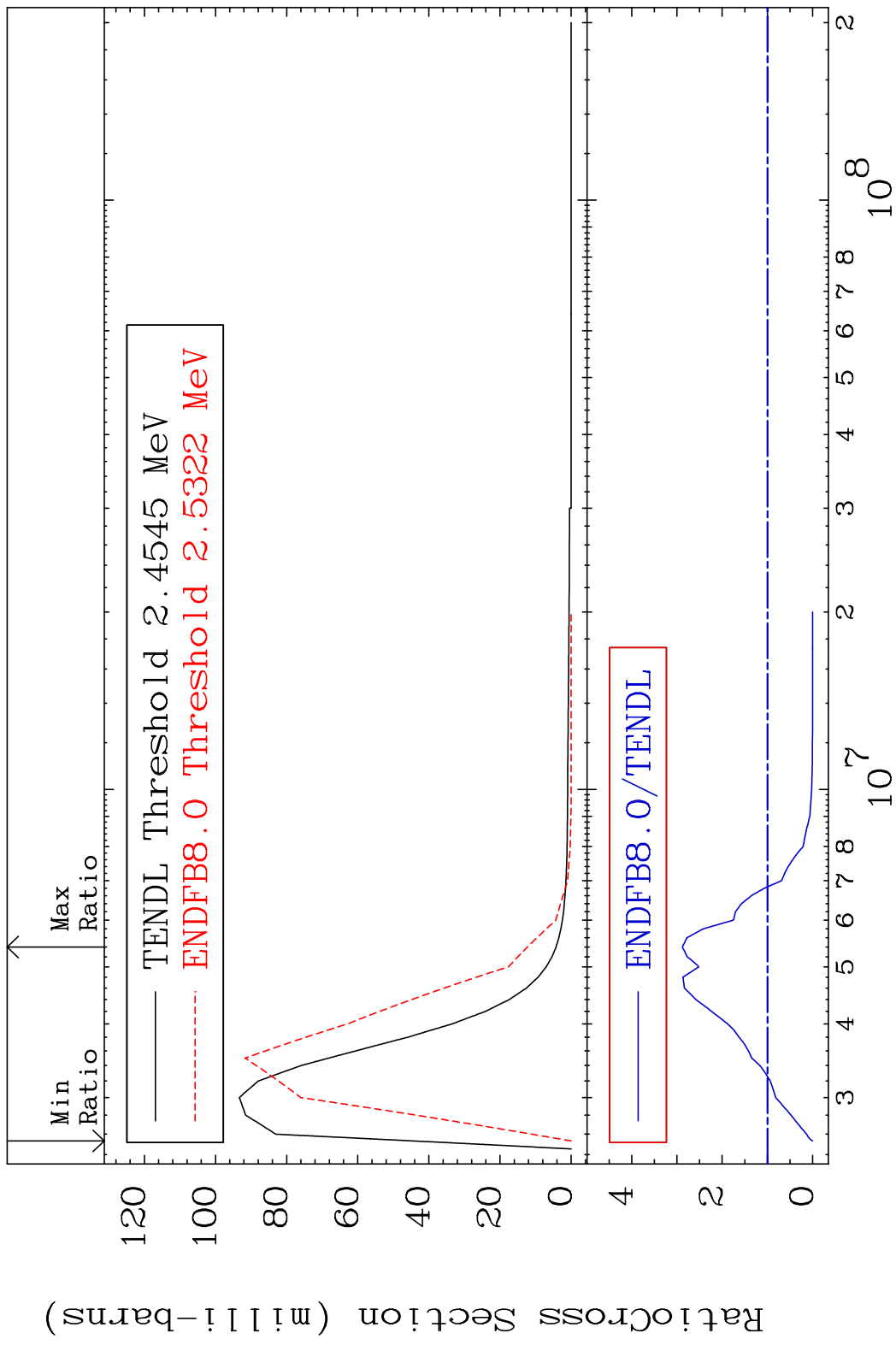
16 Incident Energy (eV) 60-Nd-142

MAT 6025 MT= 58 (n, n') Level 60-Nd-142
 Cross Section -100.0 To 525.1 %

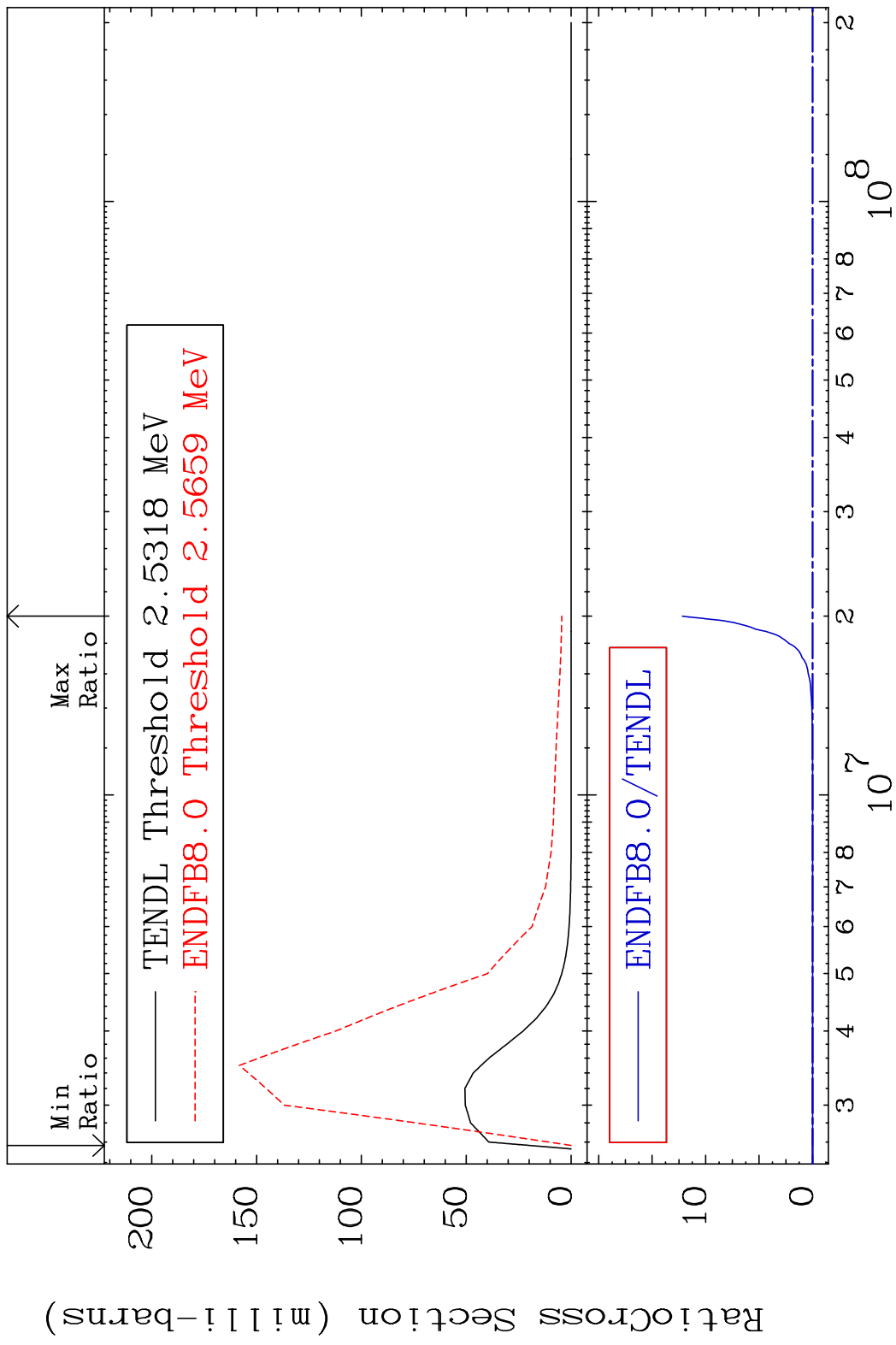


17 60-Nd-142

MAT 6025 MT= 59 (n, n') Level 60-Nd-142
 Cross Section -100.0 To 188.1 %

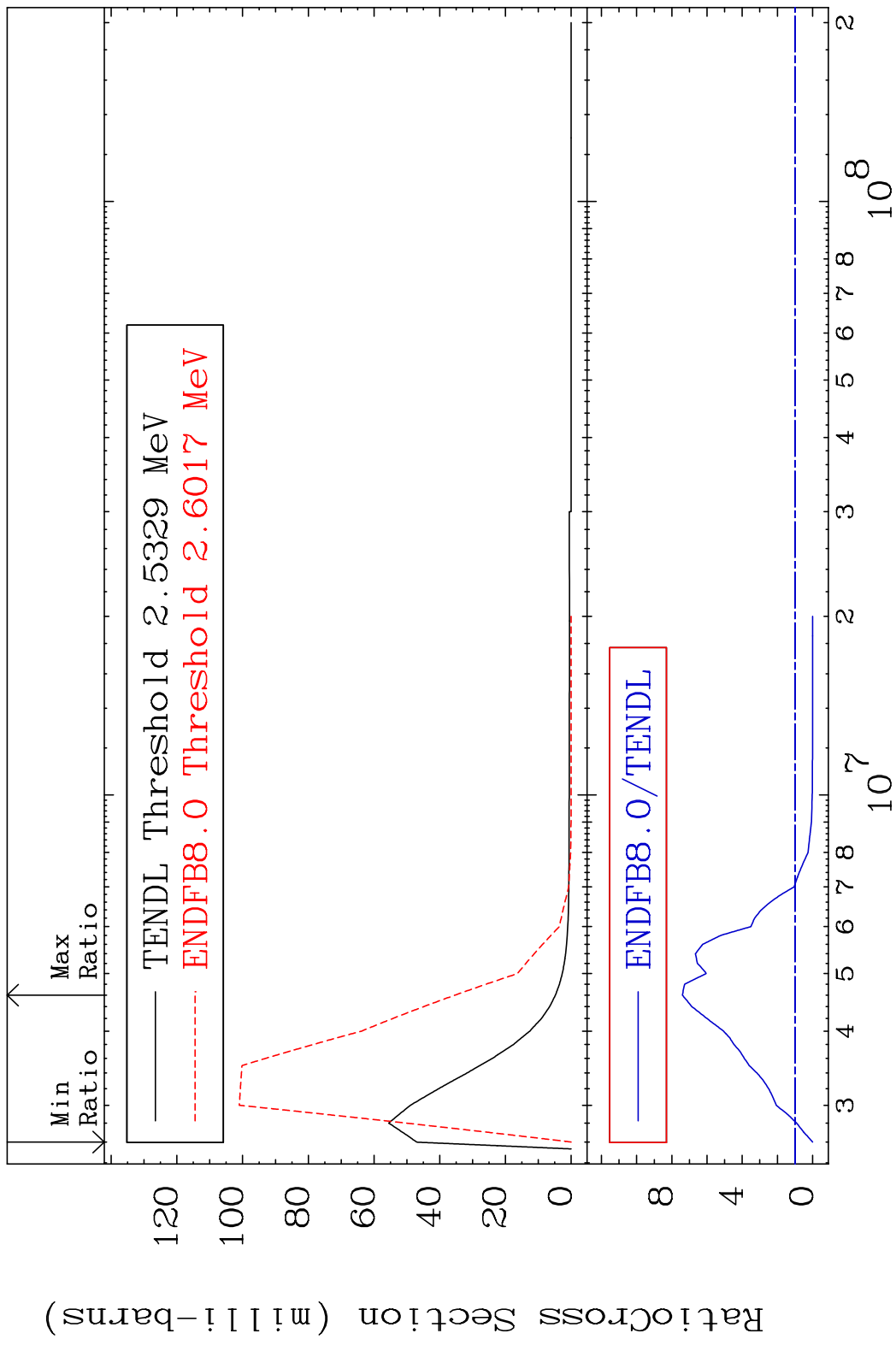


MAT 6025 MT= 60 (n, n') Level 60-Nd-142
 Cross Section -100.0 To 9999. %



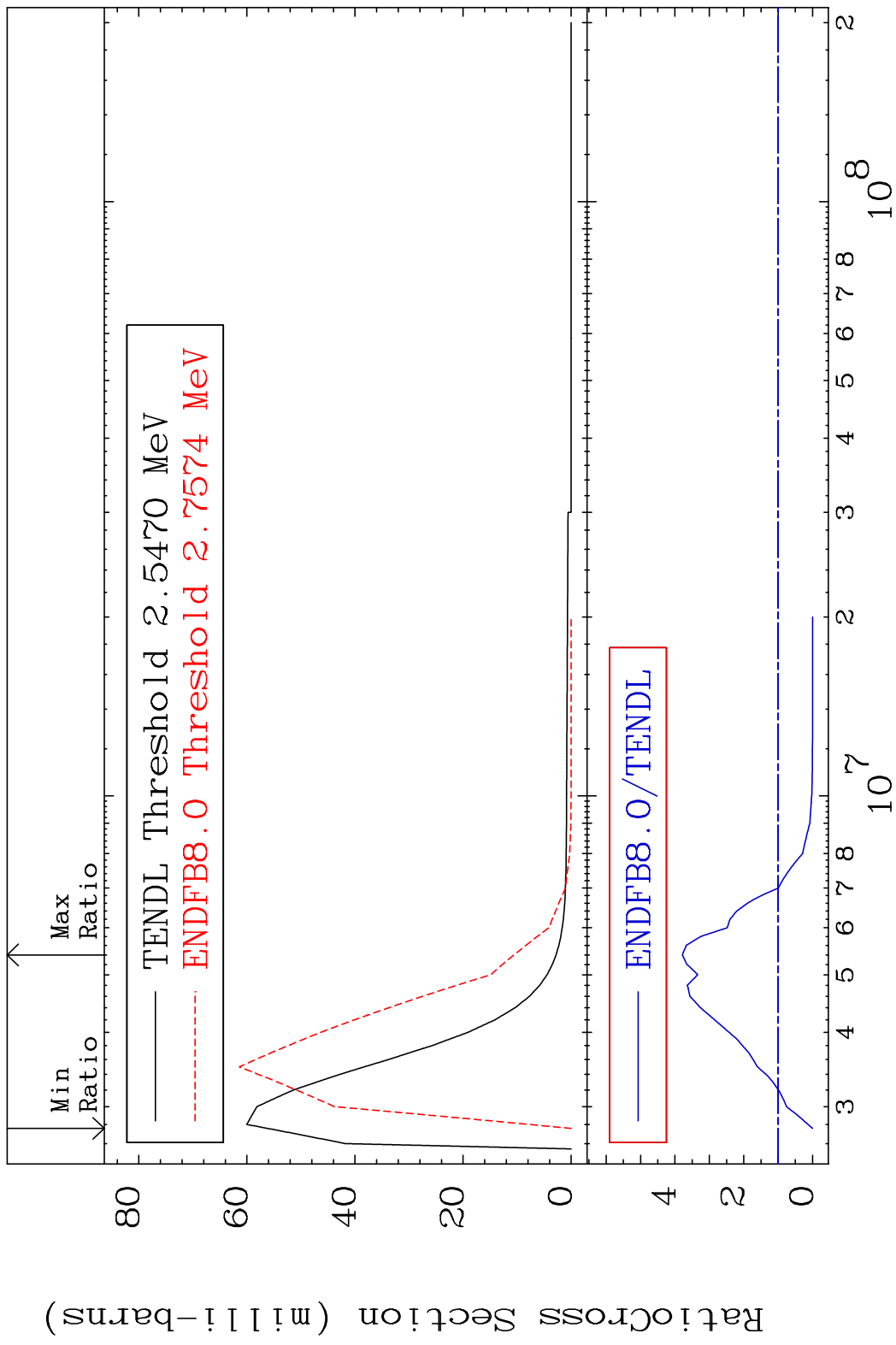
19 Incident Energy (eV) 60-Nd-142

MAT 6025 MT= 61 (n, n') Level 60-Nd-142
 Cross Section -100.0 To 640.1 %

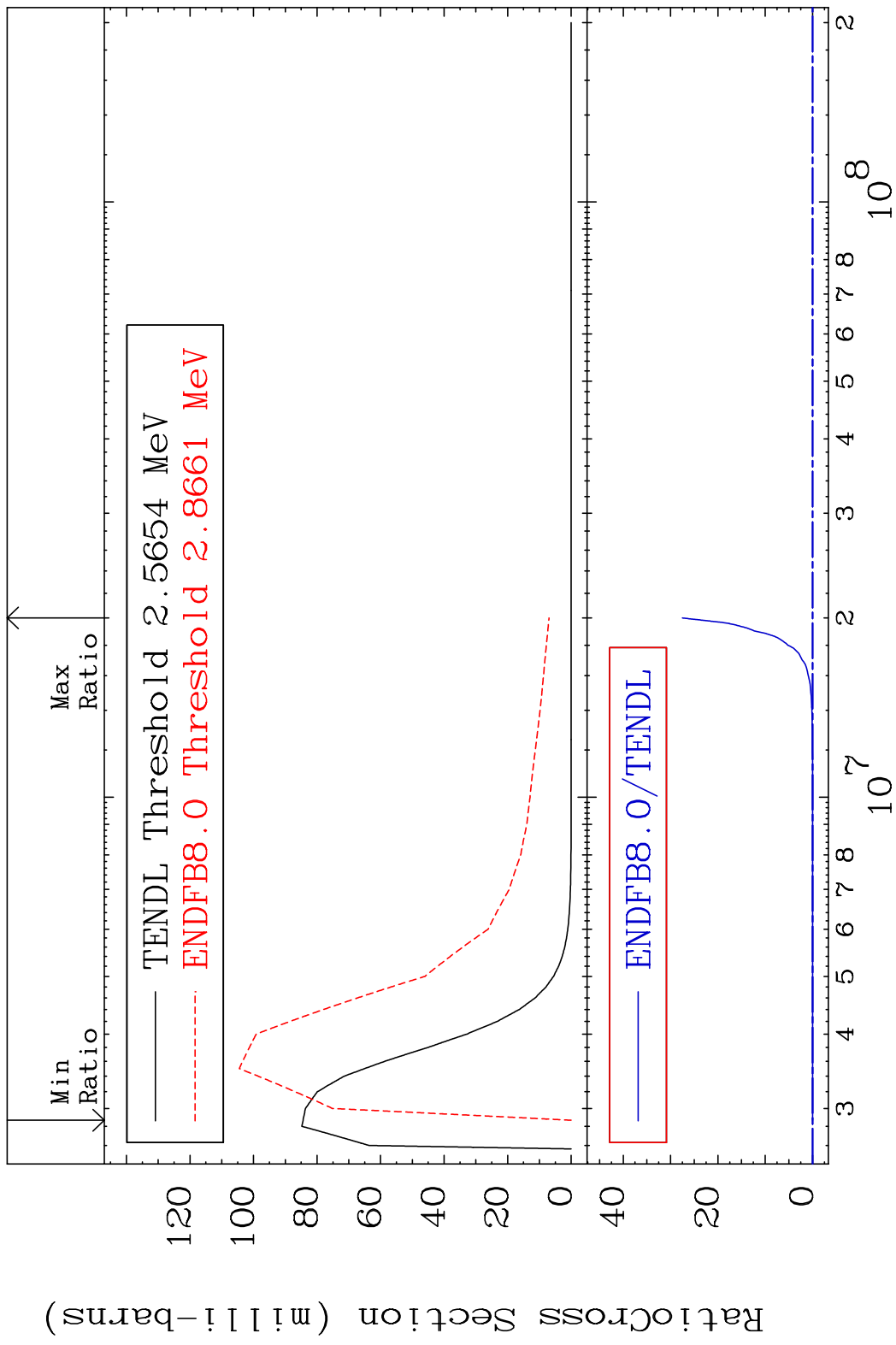


20 60-Nd-142

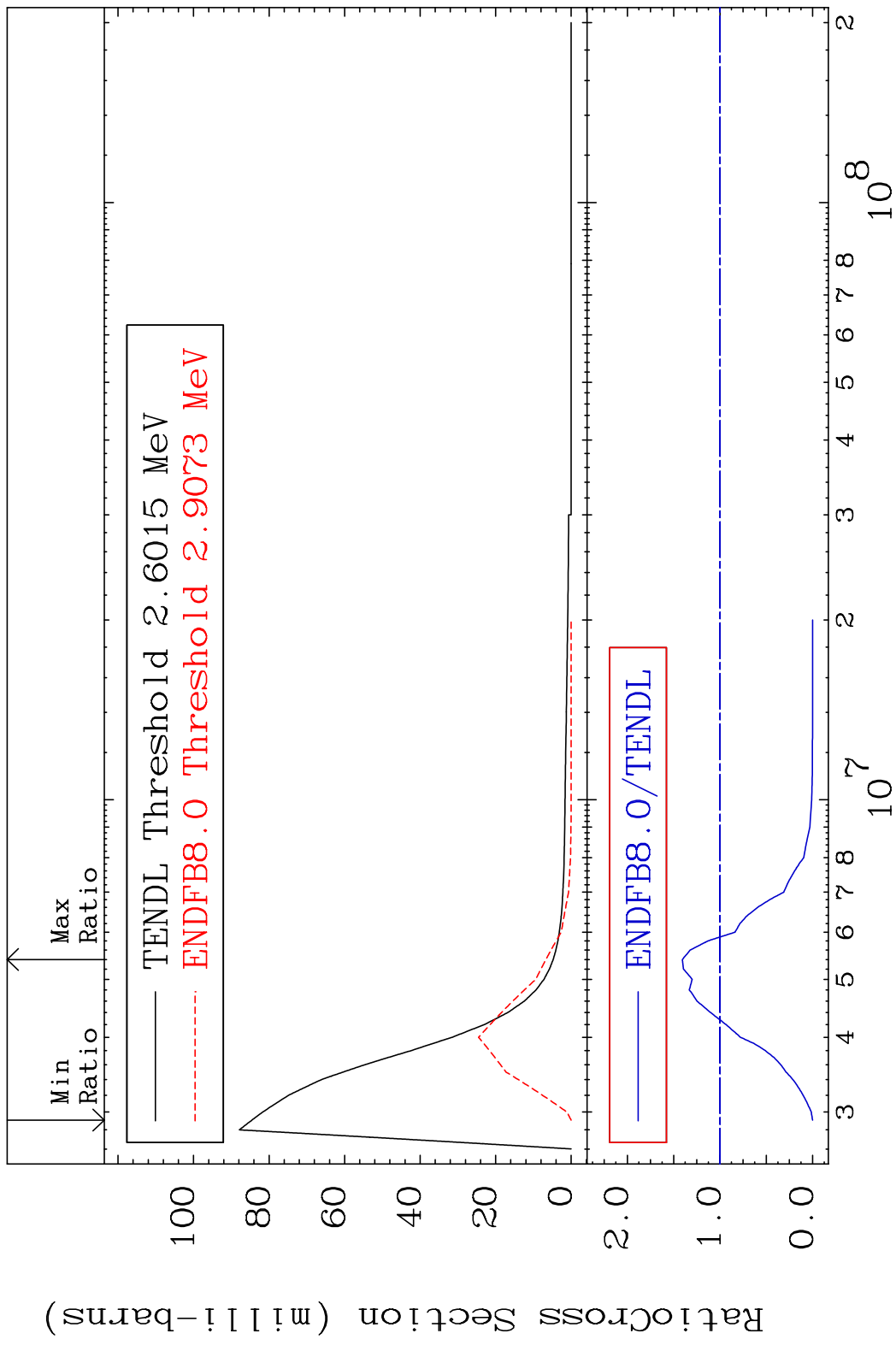
MAT 6025 MT= 62 (n, n') Level 60-Nd-142
 Cross Section -100.0 To 278.5 %



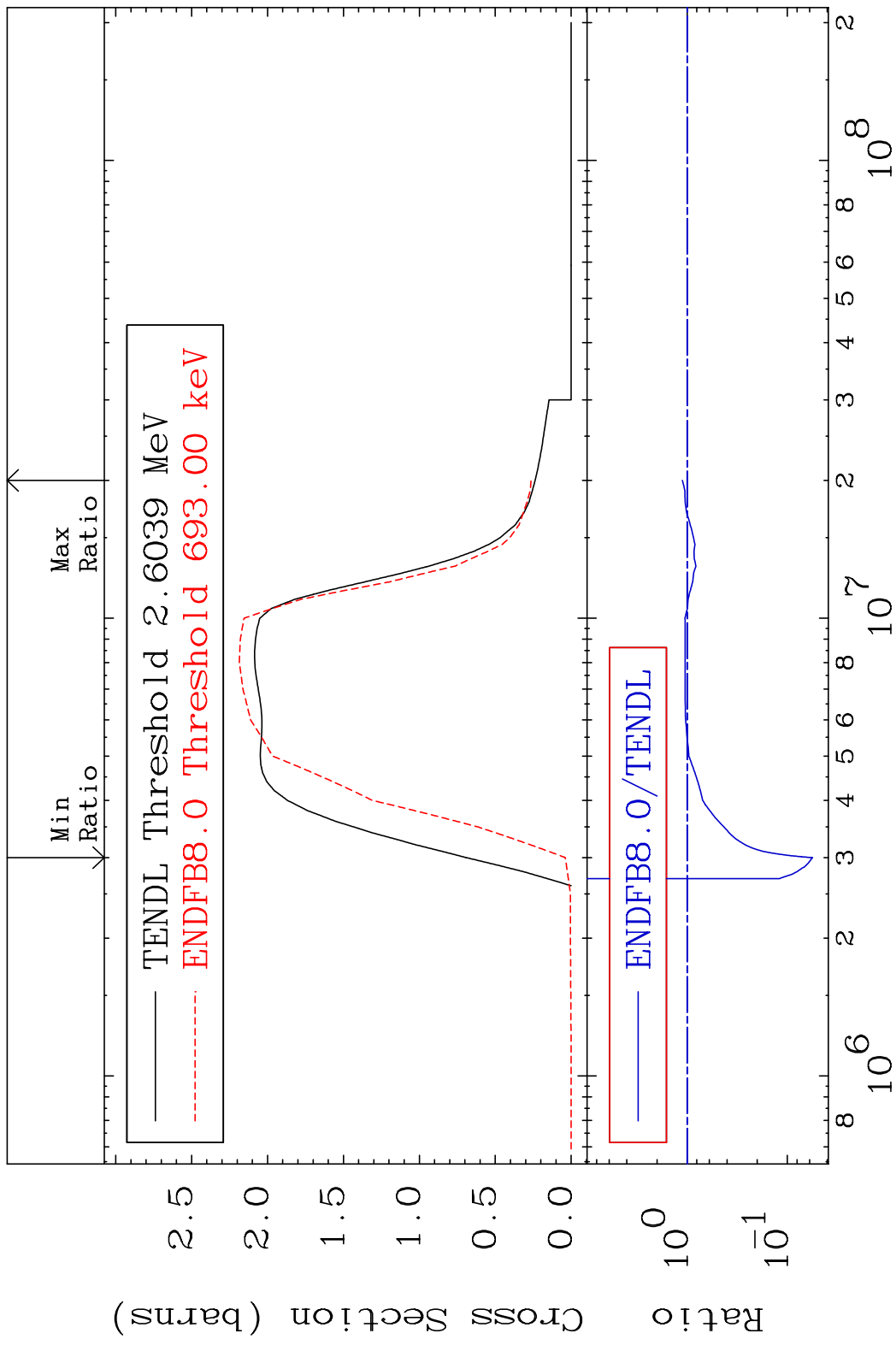
MAT 6025 MT= 63 (n, n') Level 60-Nd-142
 Cross Section -100.0 To 9999. %



MAT 6025 MT= 64 (n,n') Level 60-Nd-142
 Cross Section -100.0 To 40.61 %



MAT 6025 (n, n') Continuum 60-Nd-142
 Cross Section -94.40 To 11.66 %

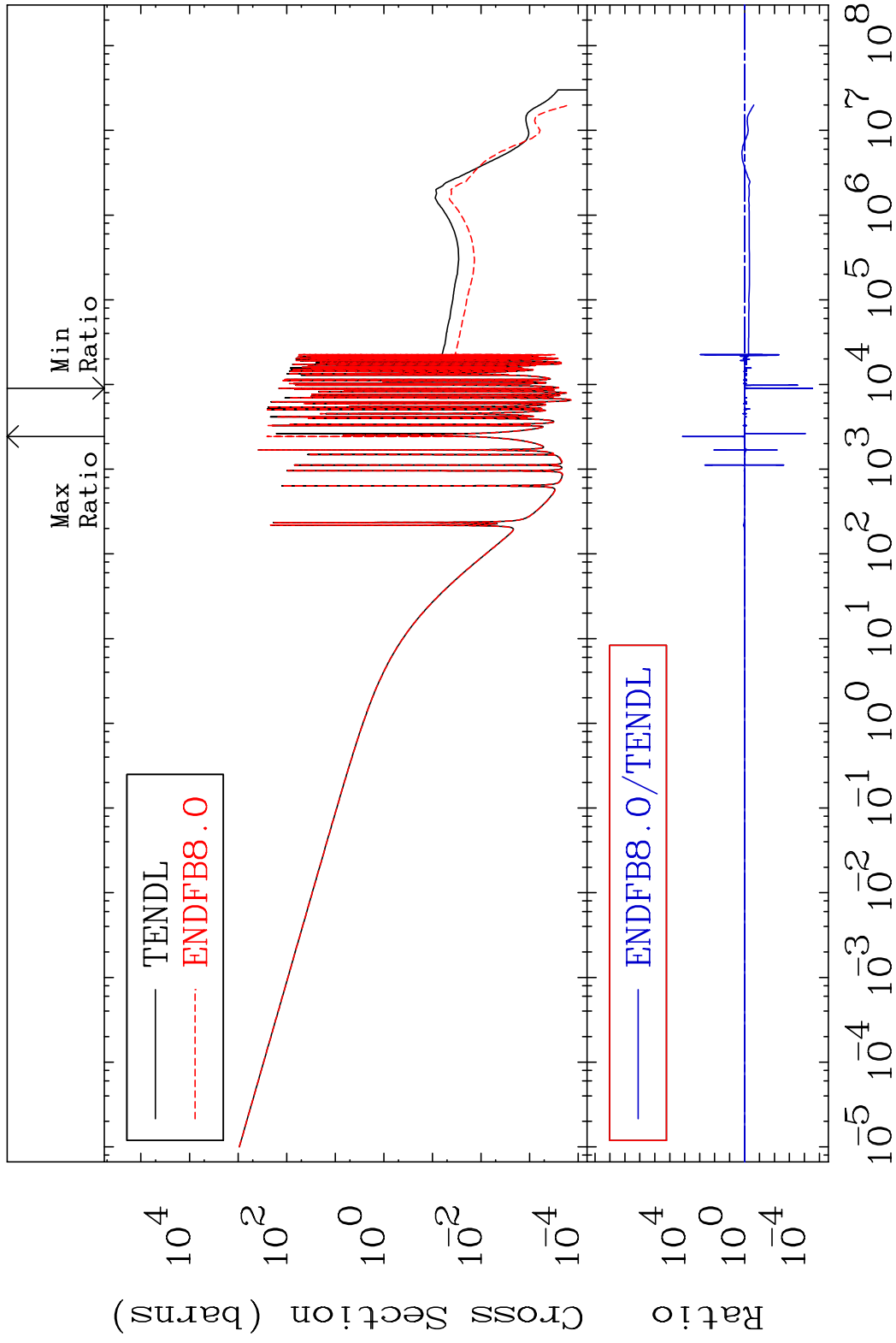


MAT 6025

(n, γ)

60-Nd-142

Cross Section -100.0 To 9999. %

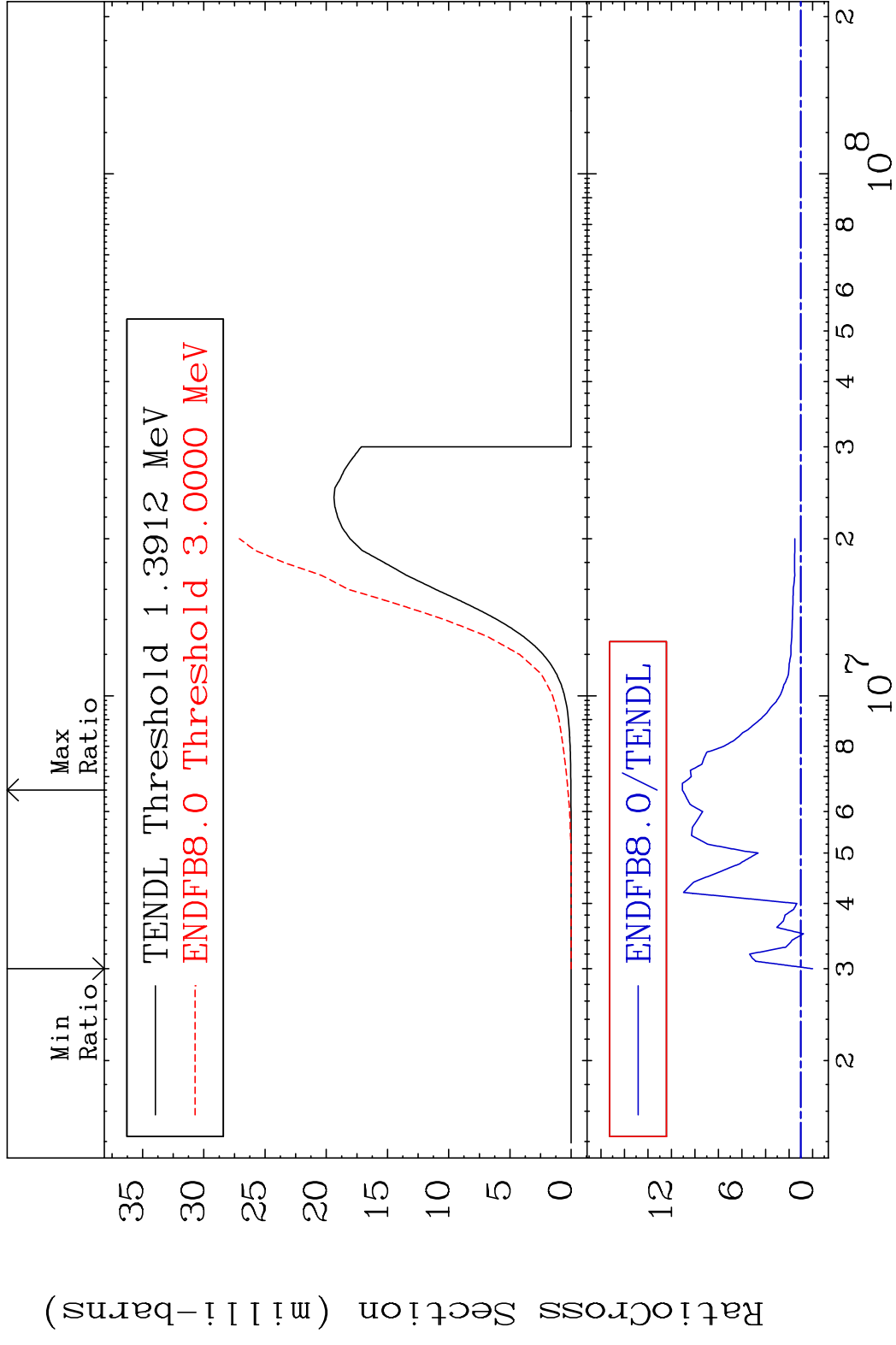


25

Incident Energy (eV)

60-Nd-142

MAT 6025 (n,p) 60-Nd-142
 Cross Section -100.0 To 1007. %

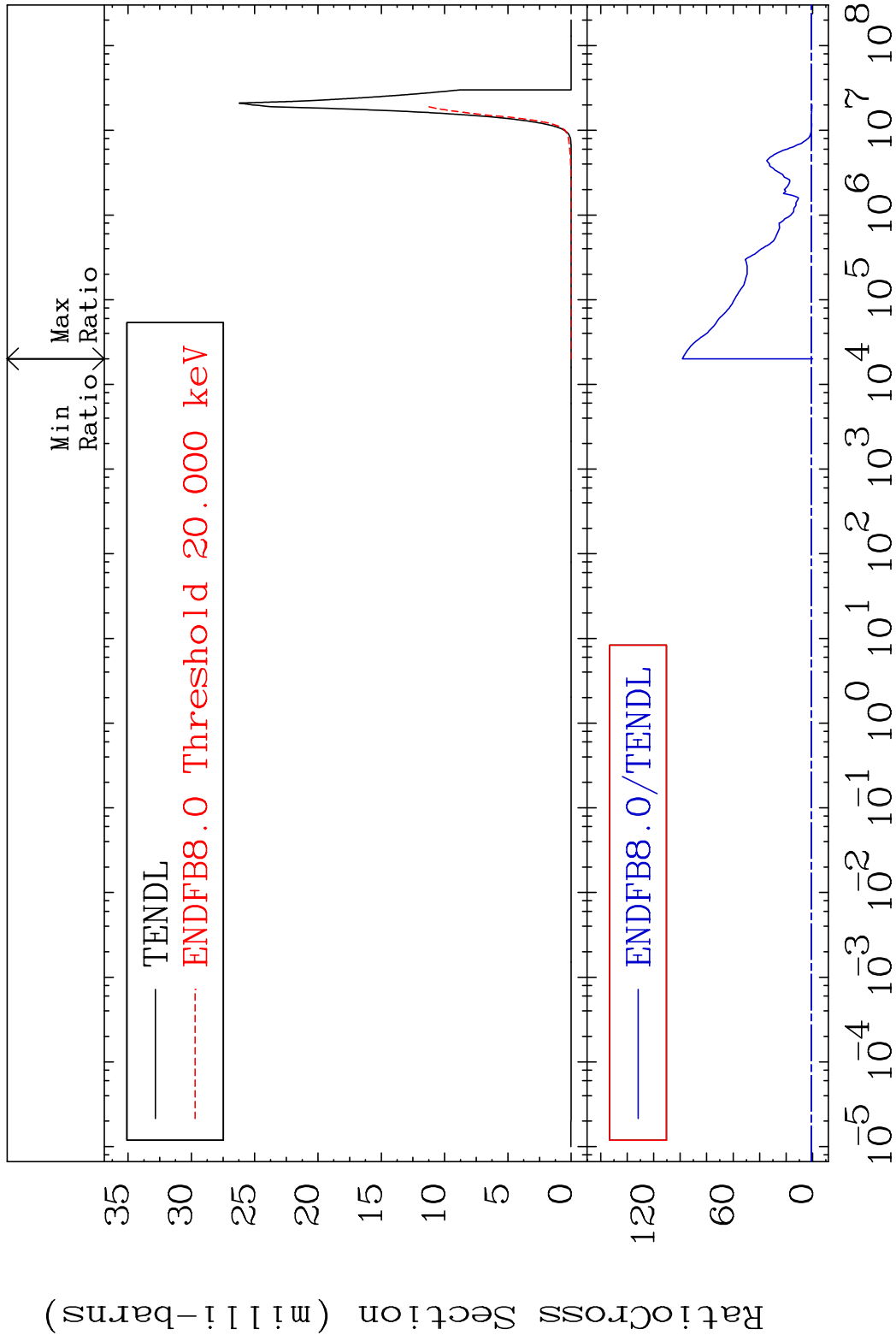


MAT 6025

(n, α)

60-Nd-142

Cross Section -100.0 To 9736. %

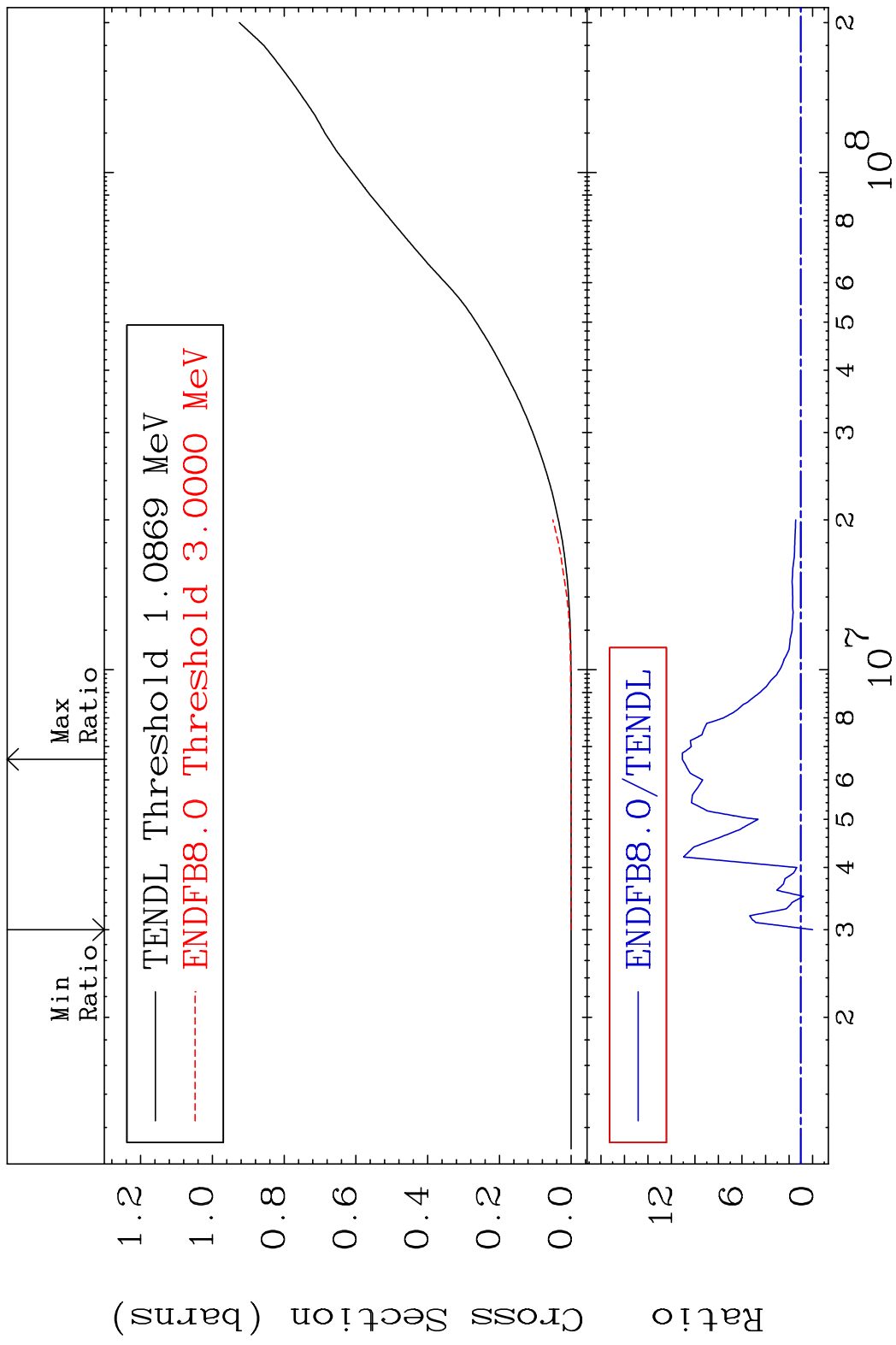


27

Incident Energy (eV)

60-Nd-142

MAT 6025 Hydrogen Production 60-Nd-142
 Cross Section -100.0 To 1007. %

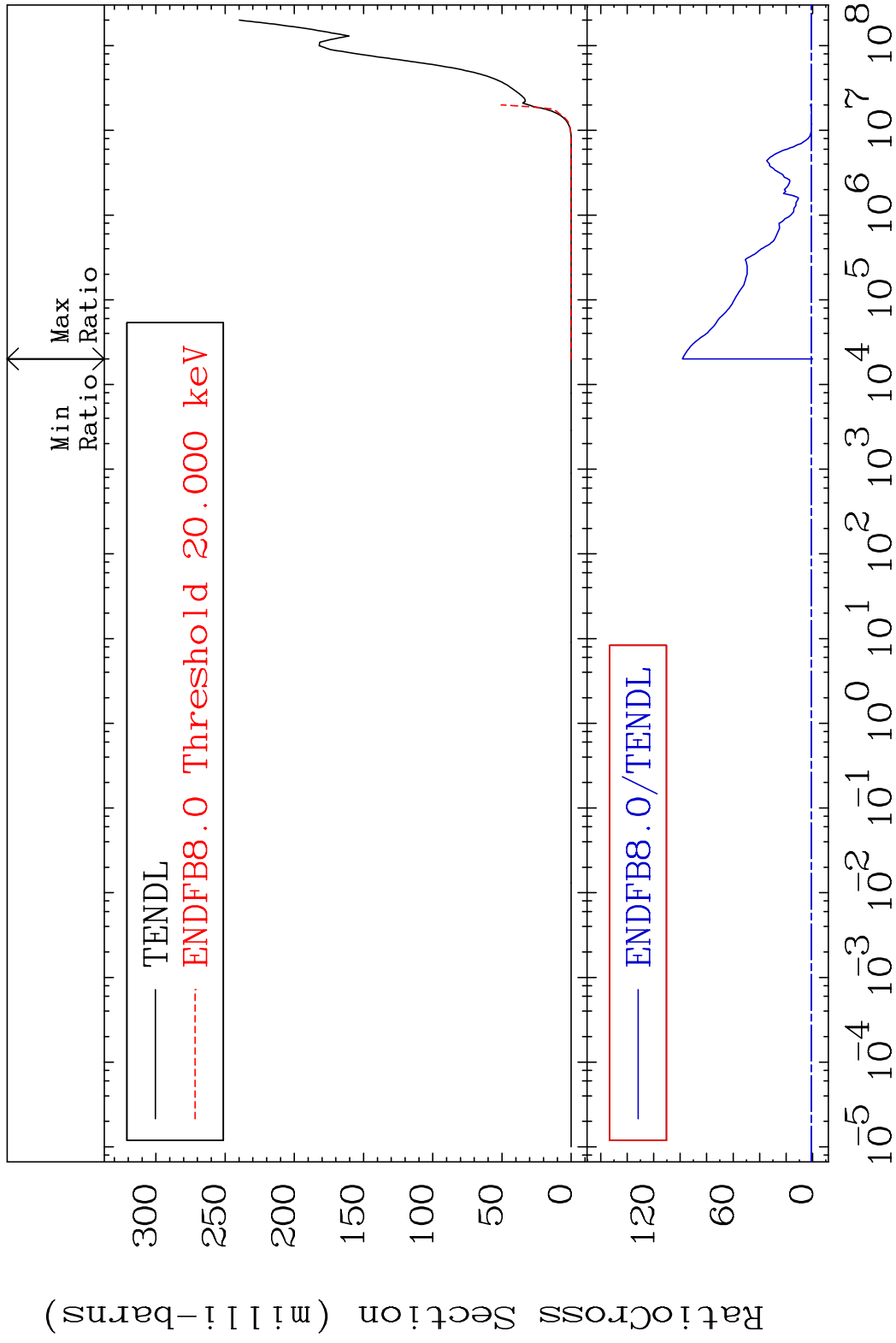


MAT 6025

He-4 Production

60-Nd-142

Cross Section -100.0 To 9736. %

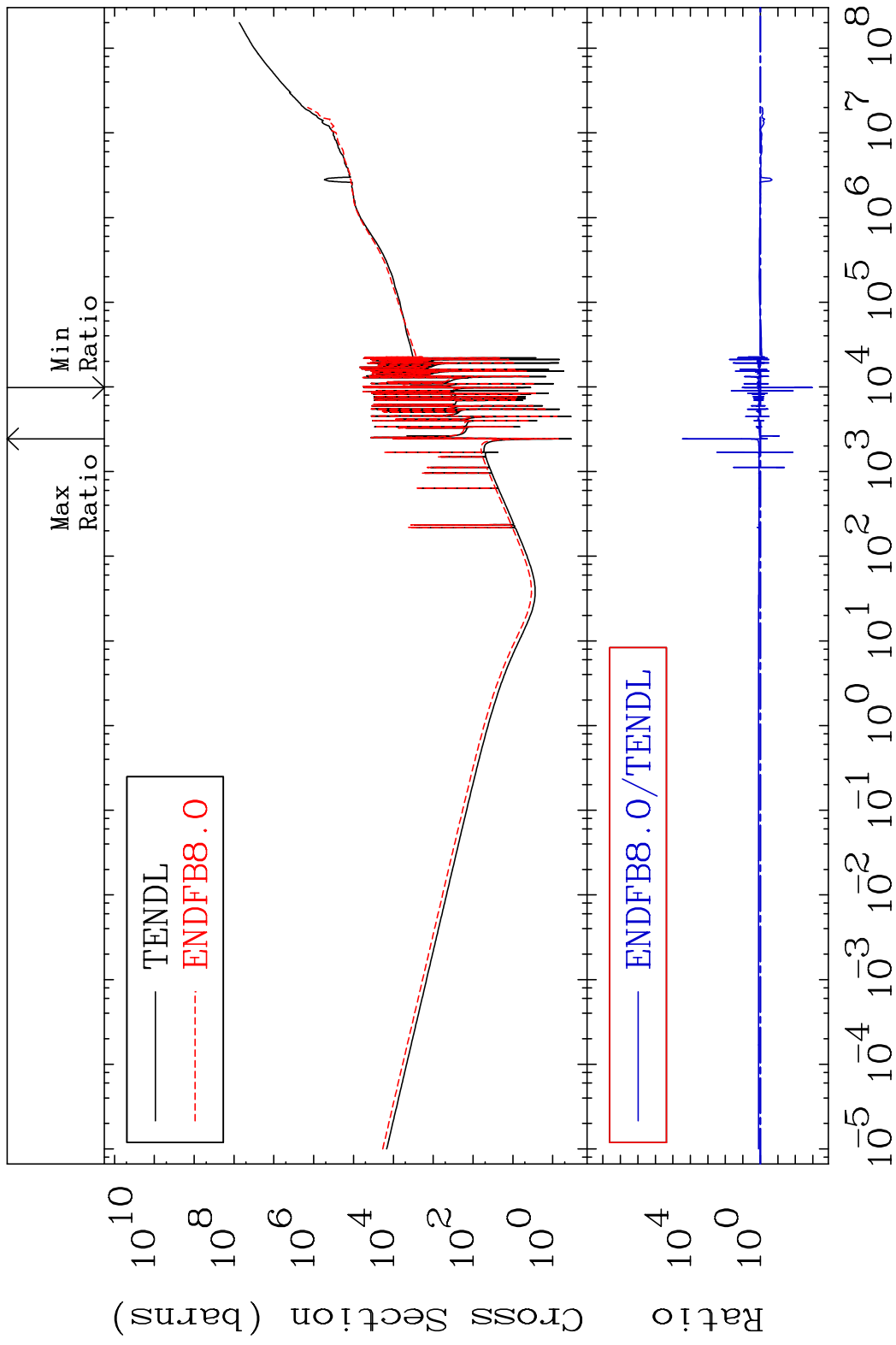


29

Incident Energy (eV)

60-Nd-142

MAT 6025 Kerma total (eV-barns) 60-Nd-142
 Cross Section -99.90 To 9999. %

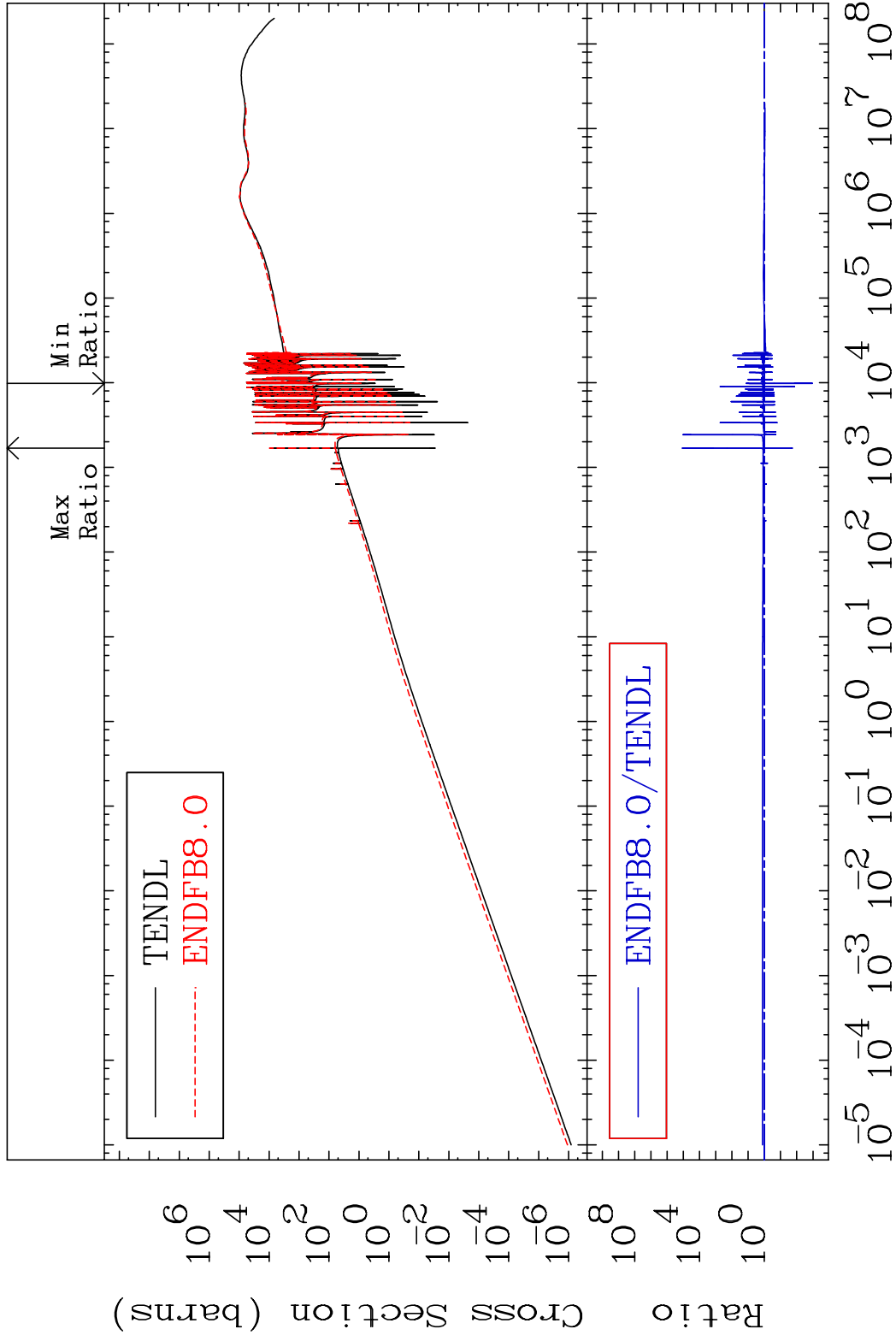


30 Incident Energy (eV) 60-Nd-142

MAT 6025

Kerma elastic
Cross Section

60-Nd-142
-99.89 To 9999. %

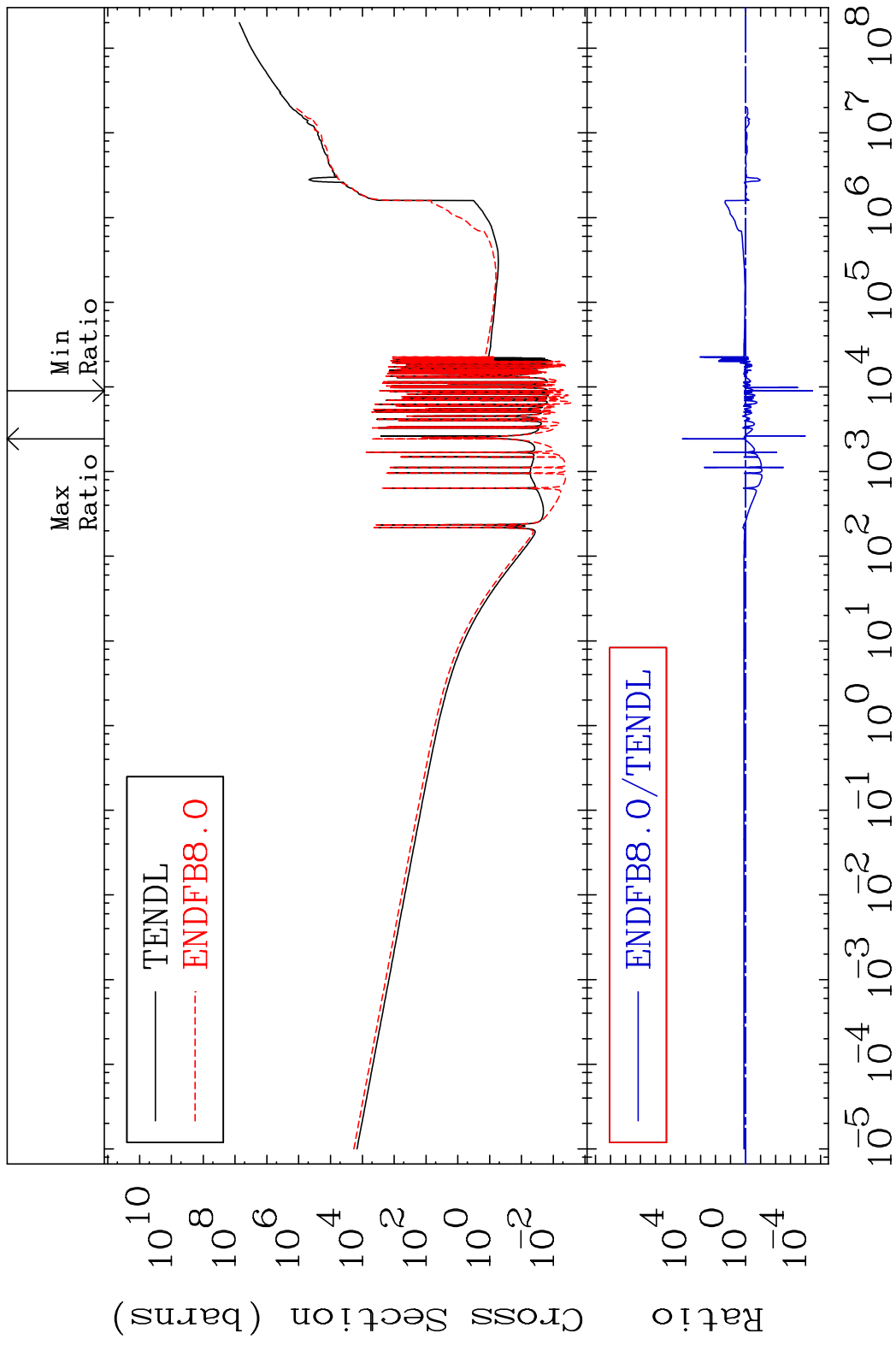


31

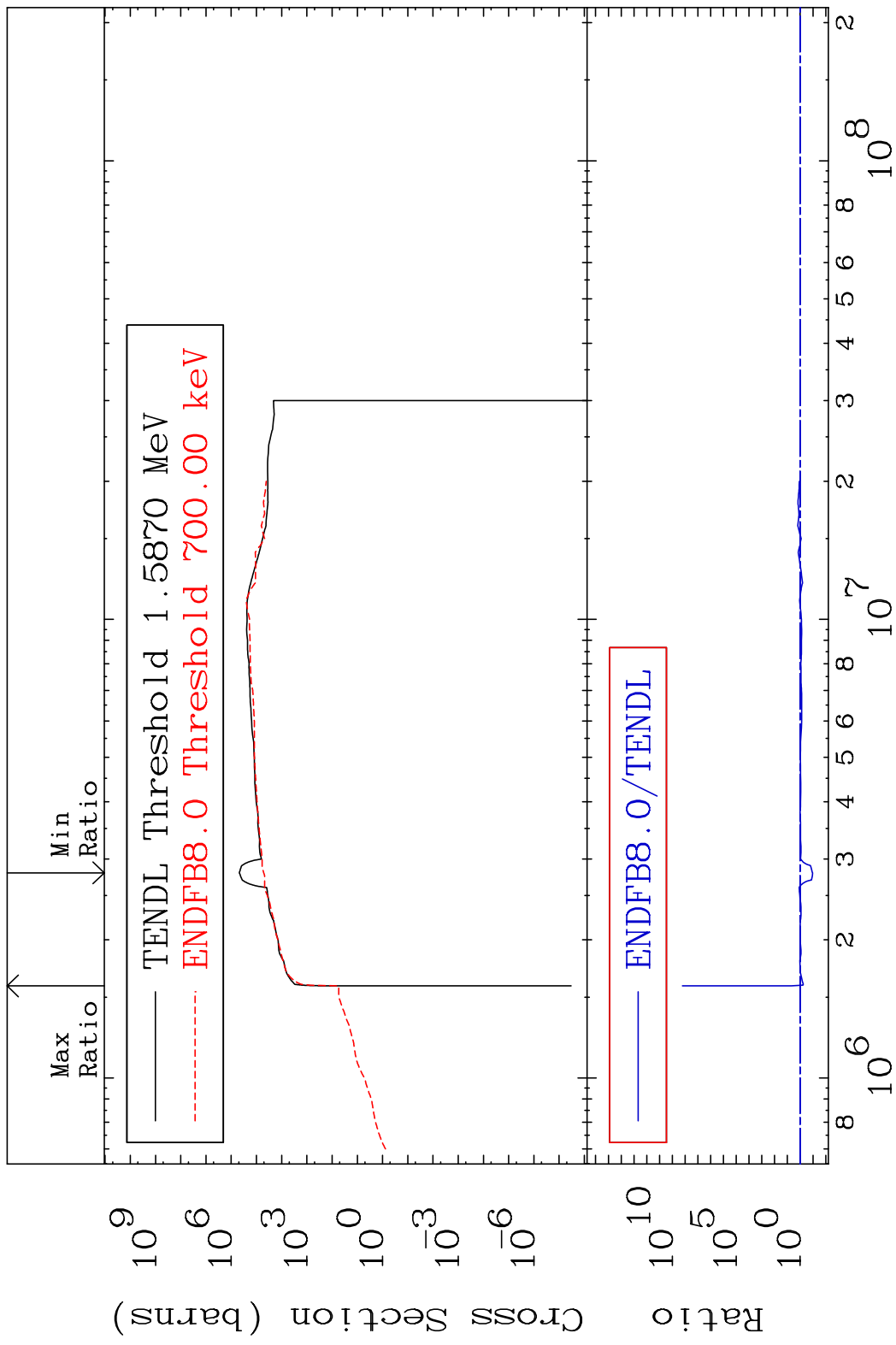
Incident Energy (eV)

60-Nd-142

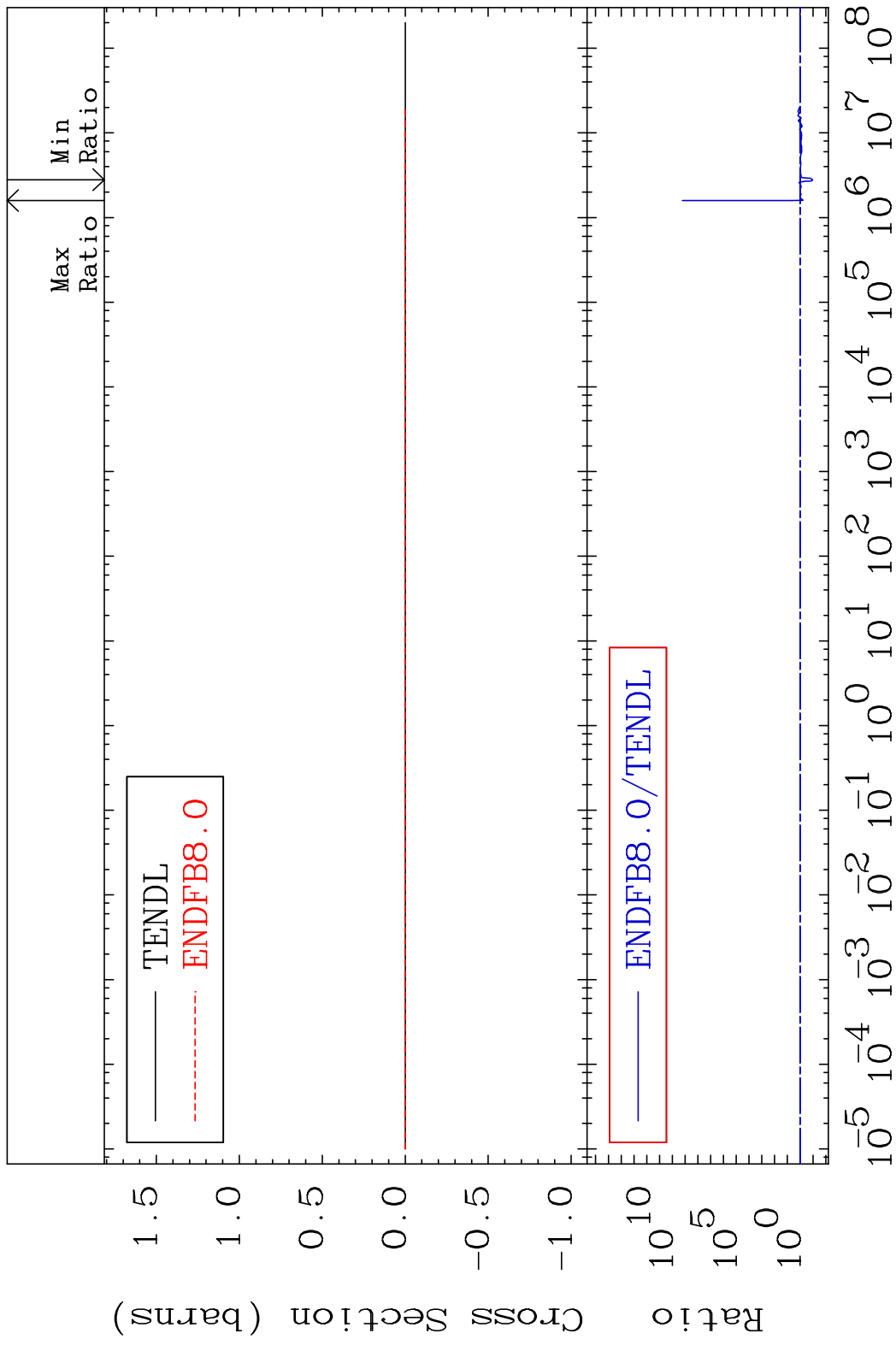
MAT 6025 Kerma non-elastic (all but mt2) 60-Nd-142
 Cross Section -100.0 To 9999. %



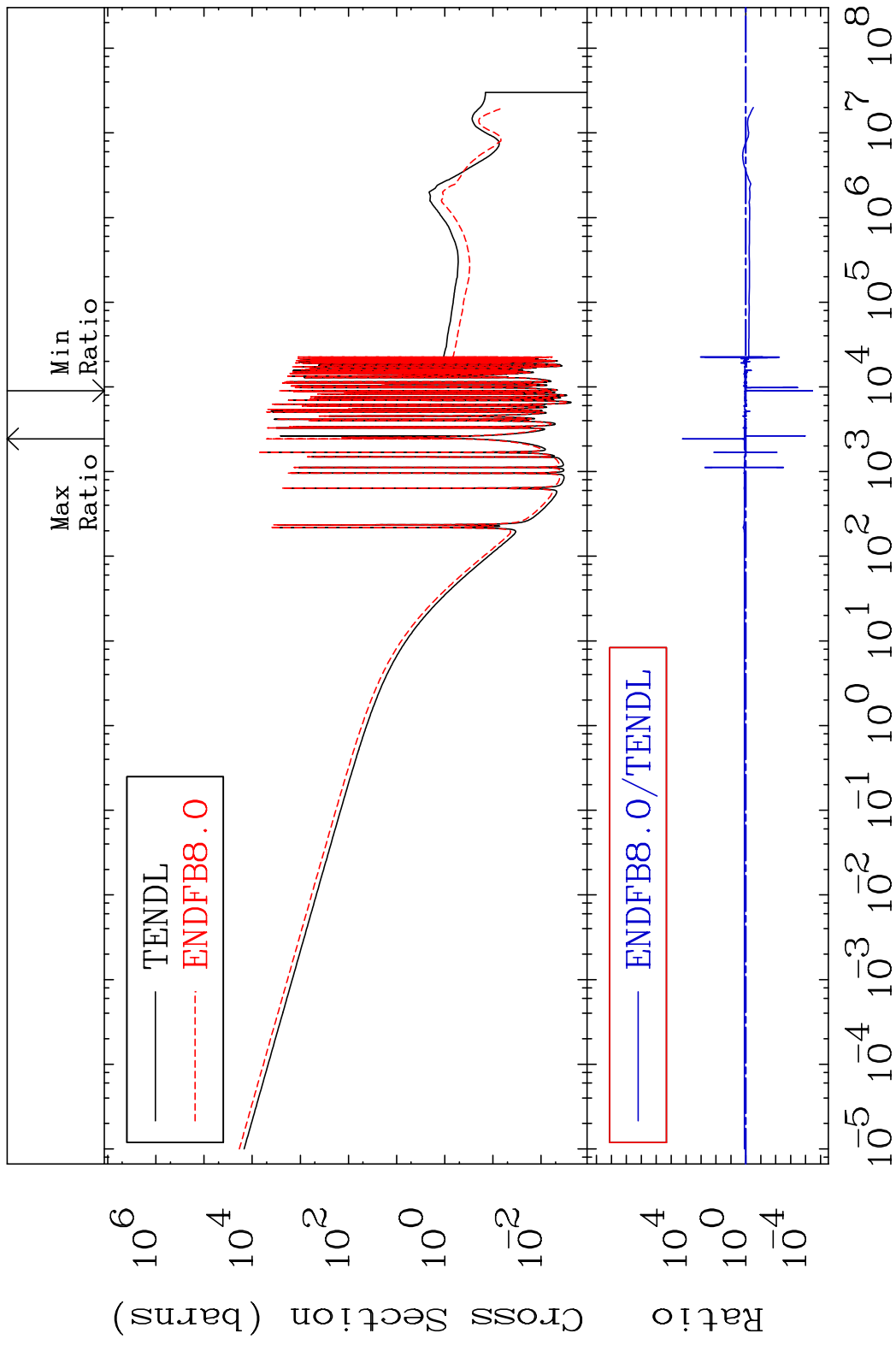
MAT 6025 Kerma inelastic (mt51-91) 60-Nd-142
 Cross Section -89.25 To 9999. %



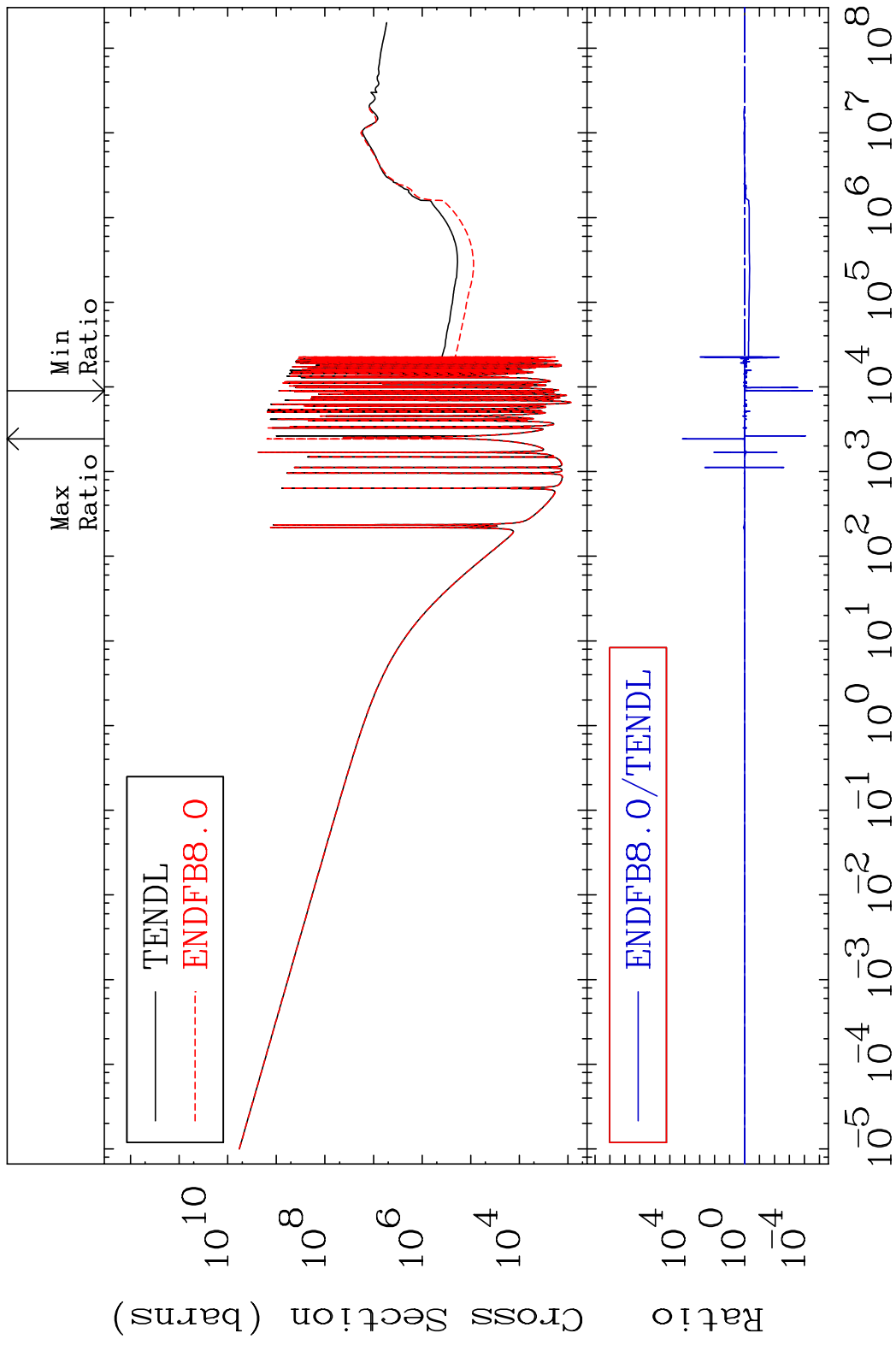
MAT 6025 Kerma fission (mt18 or mt19-20-21-38) 60-Nd-142
 Cross Section -89.25 To 9999. %



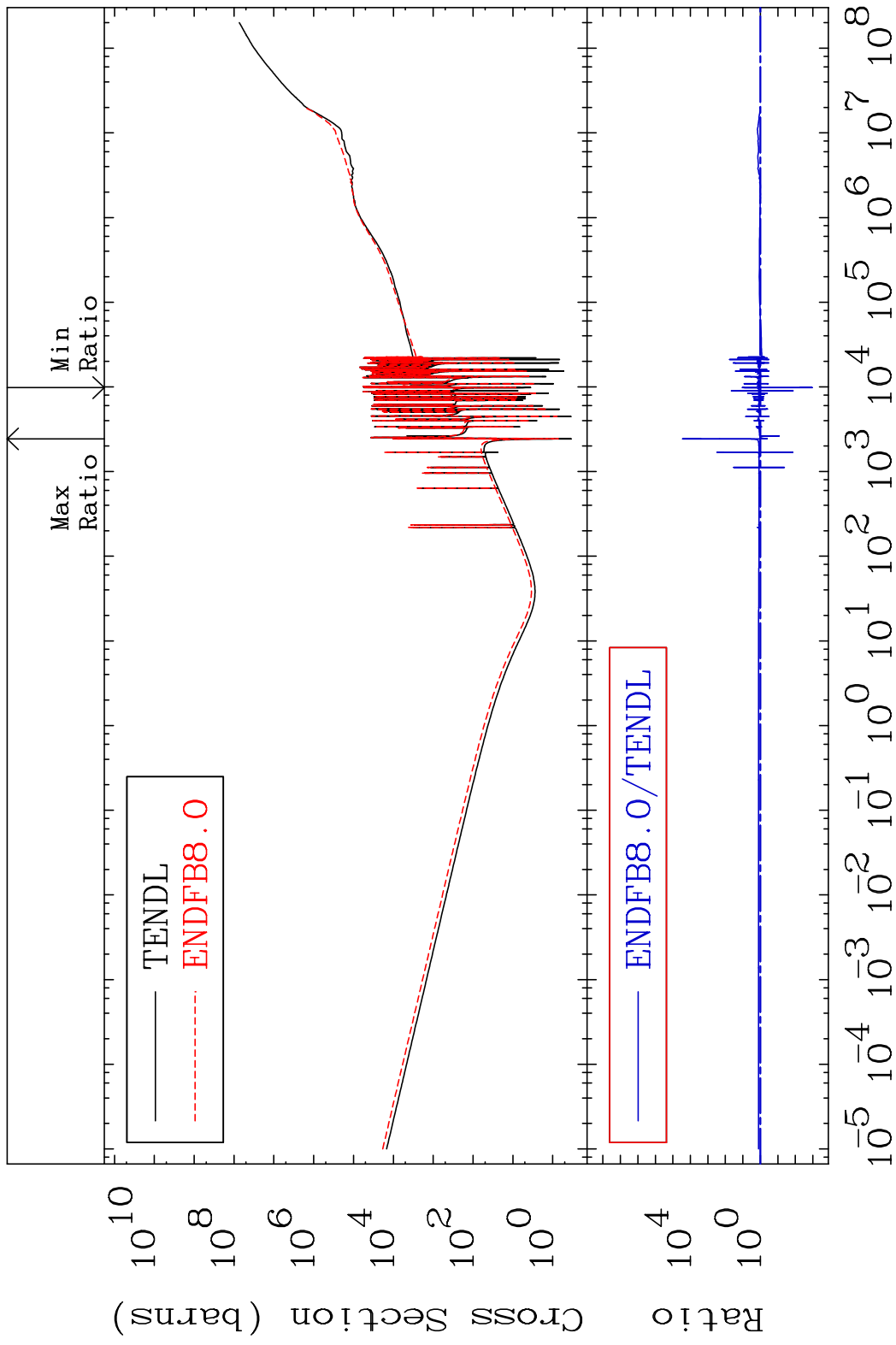
MAT 6025 Kerma capture (mt102) 60-Nd-142
 Cross Section -100.0 To 9999. %



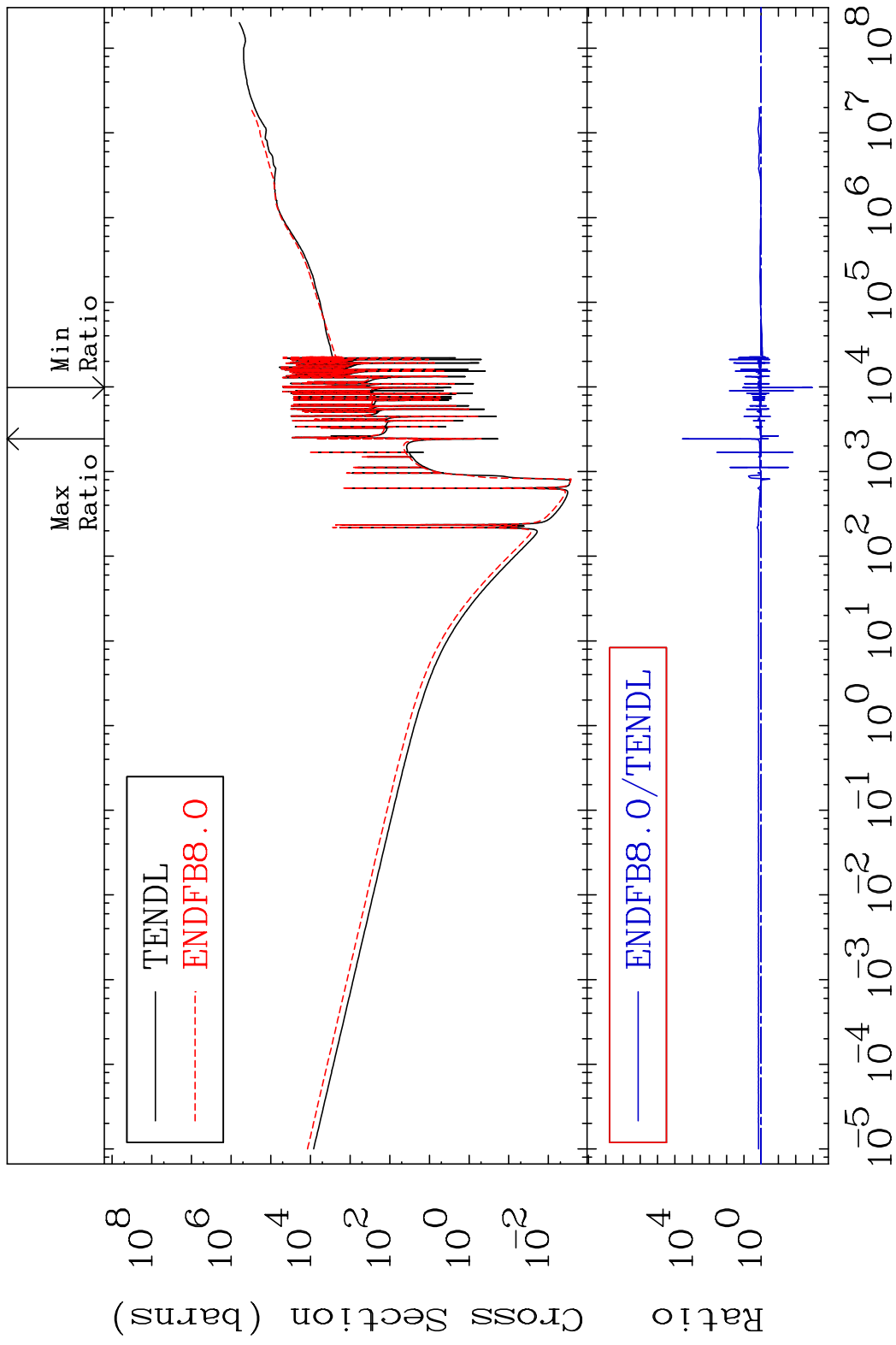
MAT 6025 Total photon (eV-barns) 60-Nd-142
 Cross Section -100.0 To 9999. %



MAT 6025 Total kinematic kerma (high limit) 60-Nd-142
 Cross Section -99.90 To 9999. %



MAT 6025 Dpa total (eV-barns) 60-Nd-142
 Cross Section -99.90 To 9999. %

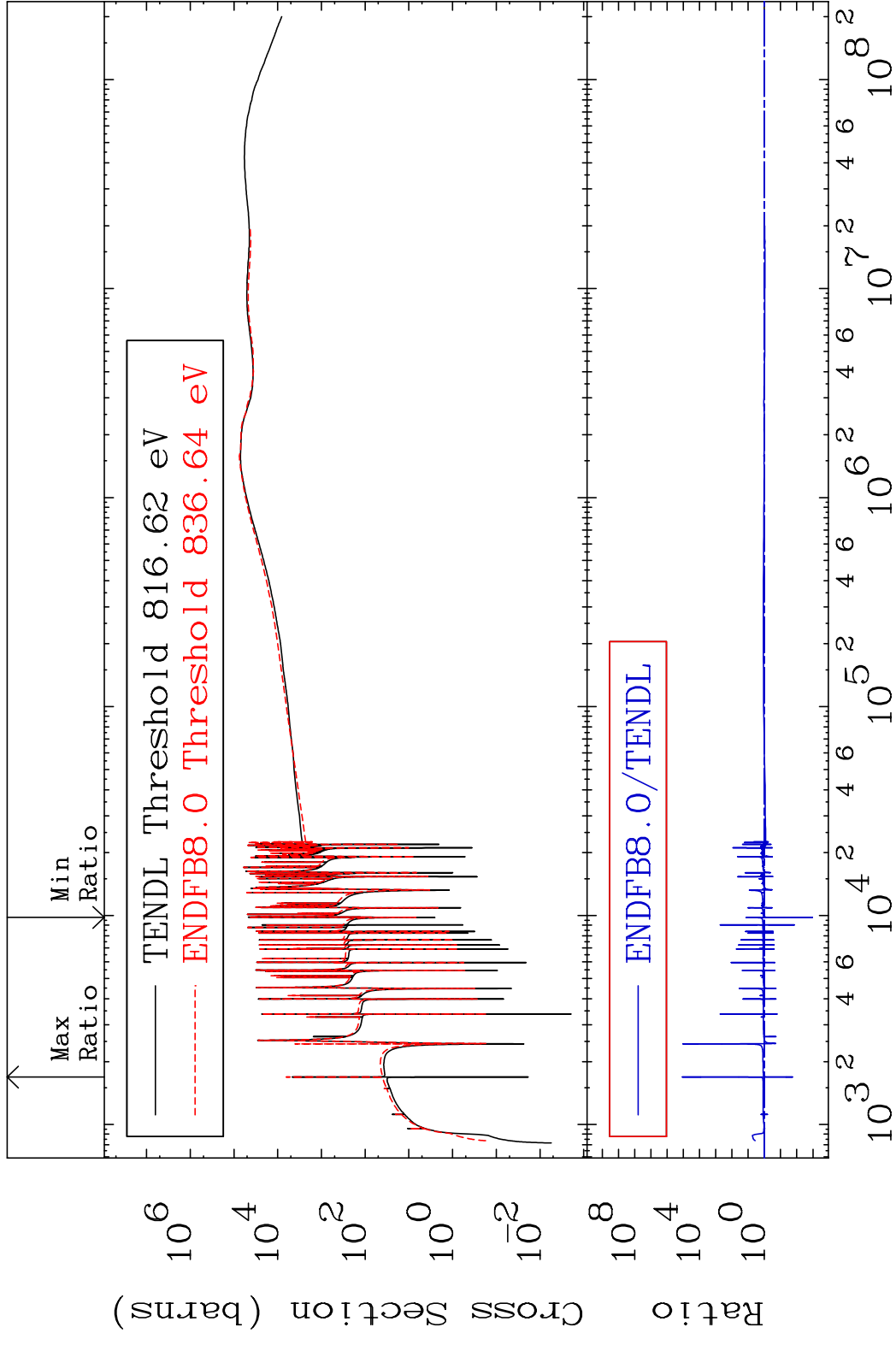


MAT 6025

Dpa elastic (mt2)

60-Nd-142

Cross Section -99.89 To 9999. %

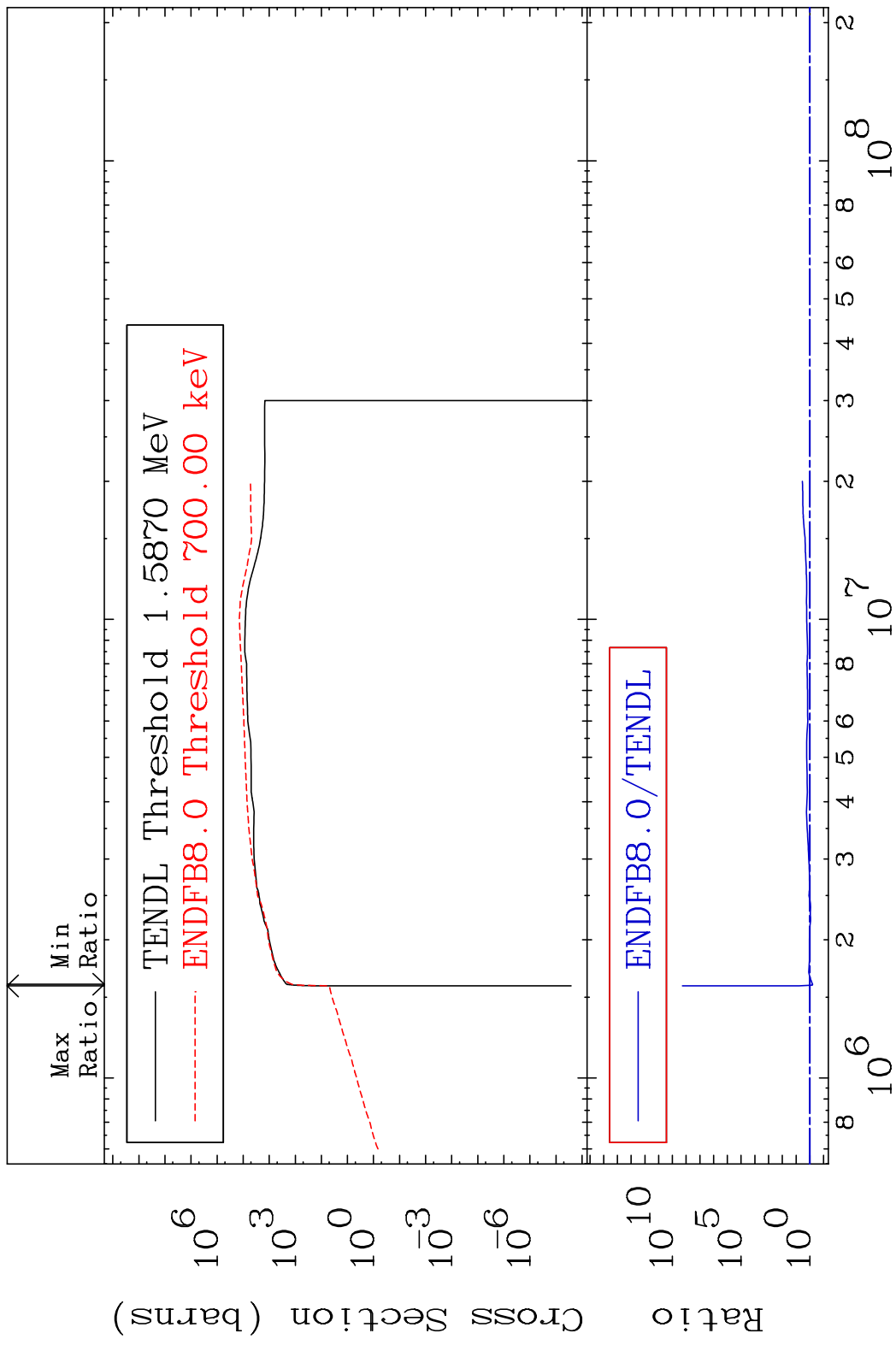


39

Incident Energy (eV)

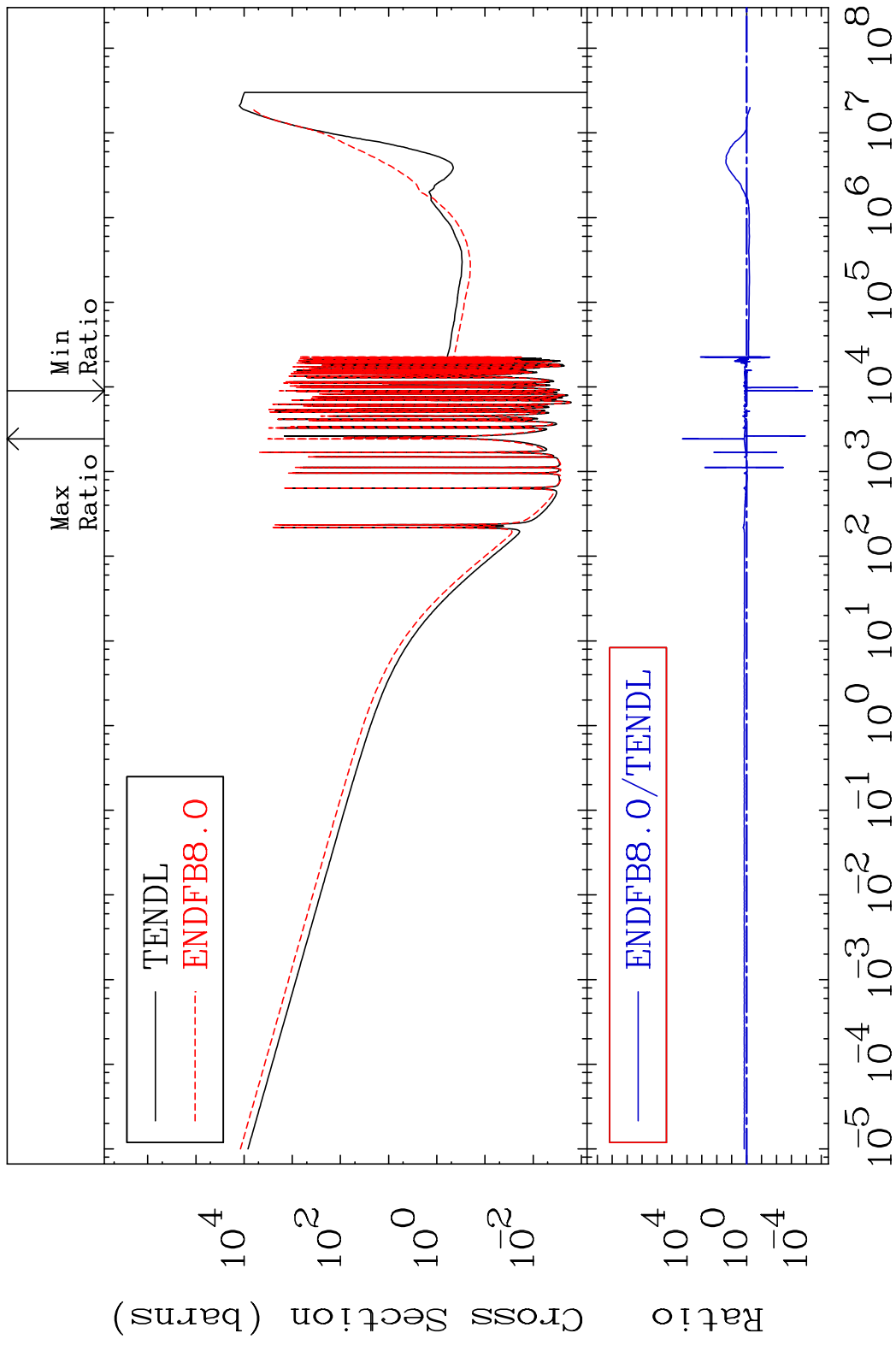
60-Nd-142

MAT 6025 Dpa inelastic (mt51-91) 60-Nd-142
 Cross Section -36.80 To 9999. %



40 Incident Energy (eV) 60-Nd-142

MAT 6025 Dpa disappearance (mt102 -120) 60-Nd-142
 Cross Section -100.0 To 9999. %



41 Incident Energy (eV) 60-Nd-142