

Program Complot
(Version 2018-1)

by

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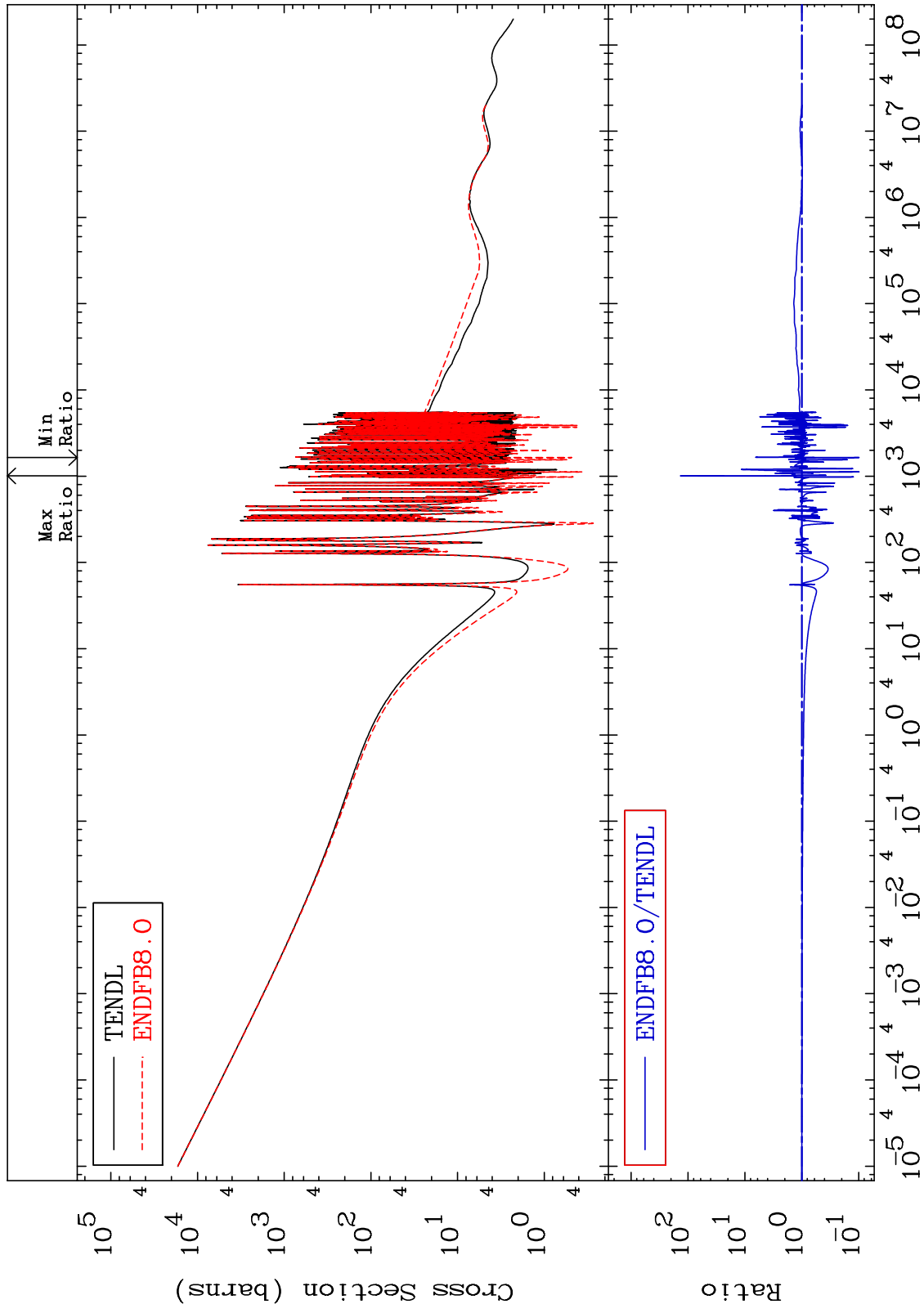
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6028

Total
Cross Section

60-Nd-143
-90.09 To 9999. %



1

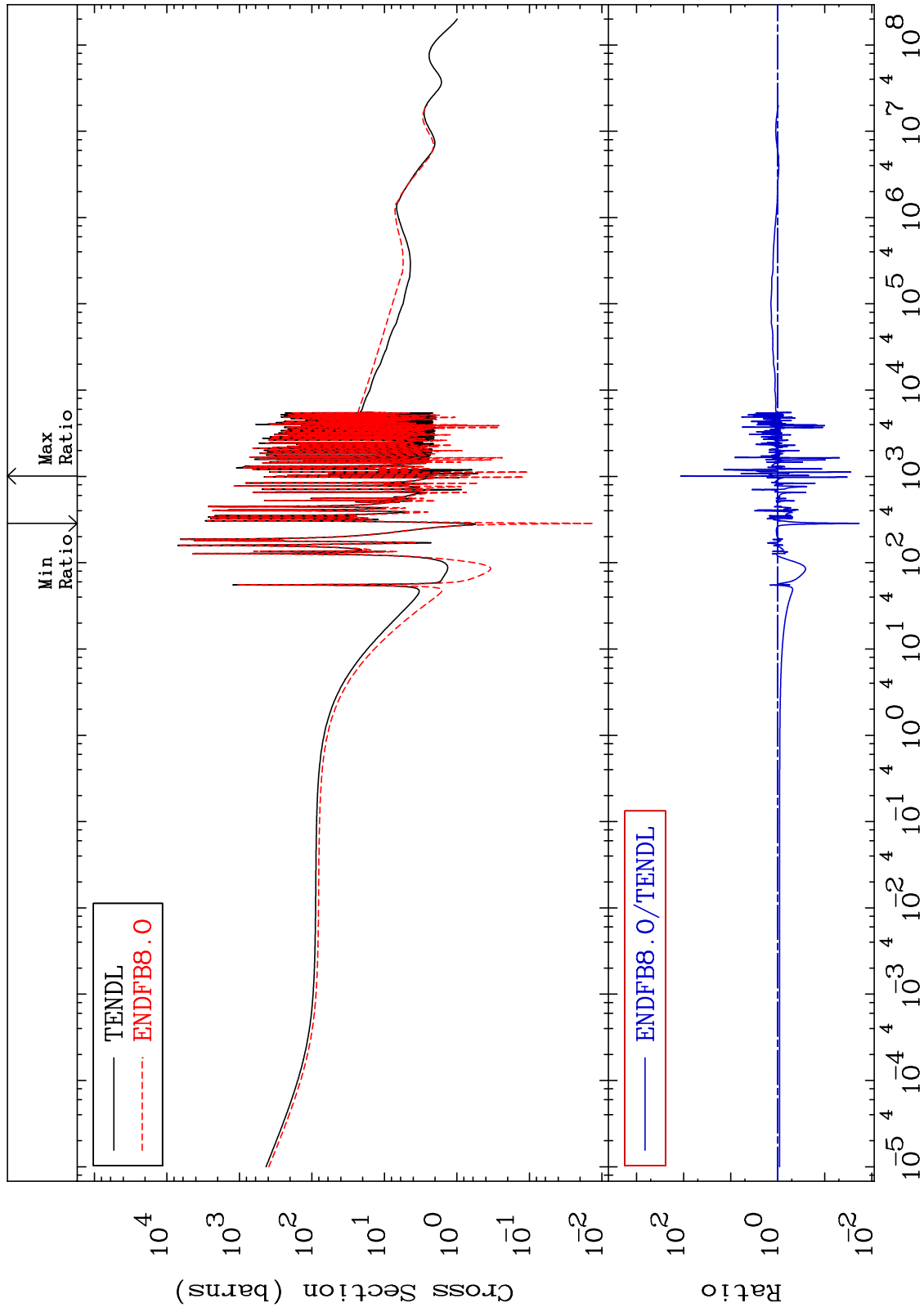
Incident Energy (eV)

60-Nd-143

MAT 6028

Elastic
Cross Section

60-Nd-143
-98.13 To 9999. %

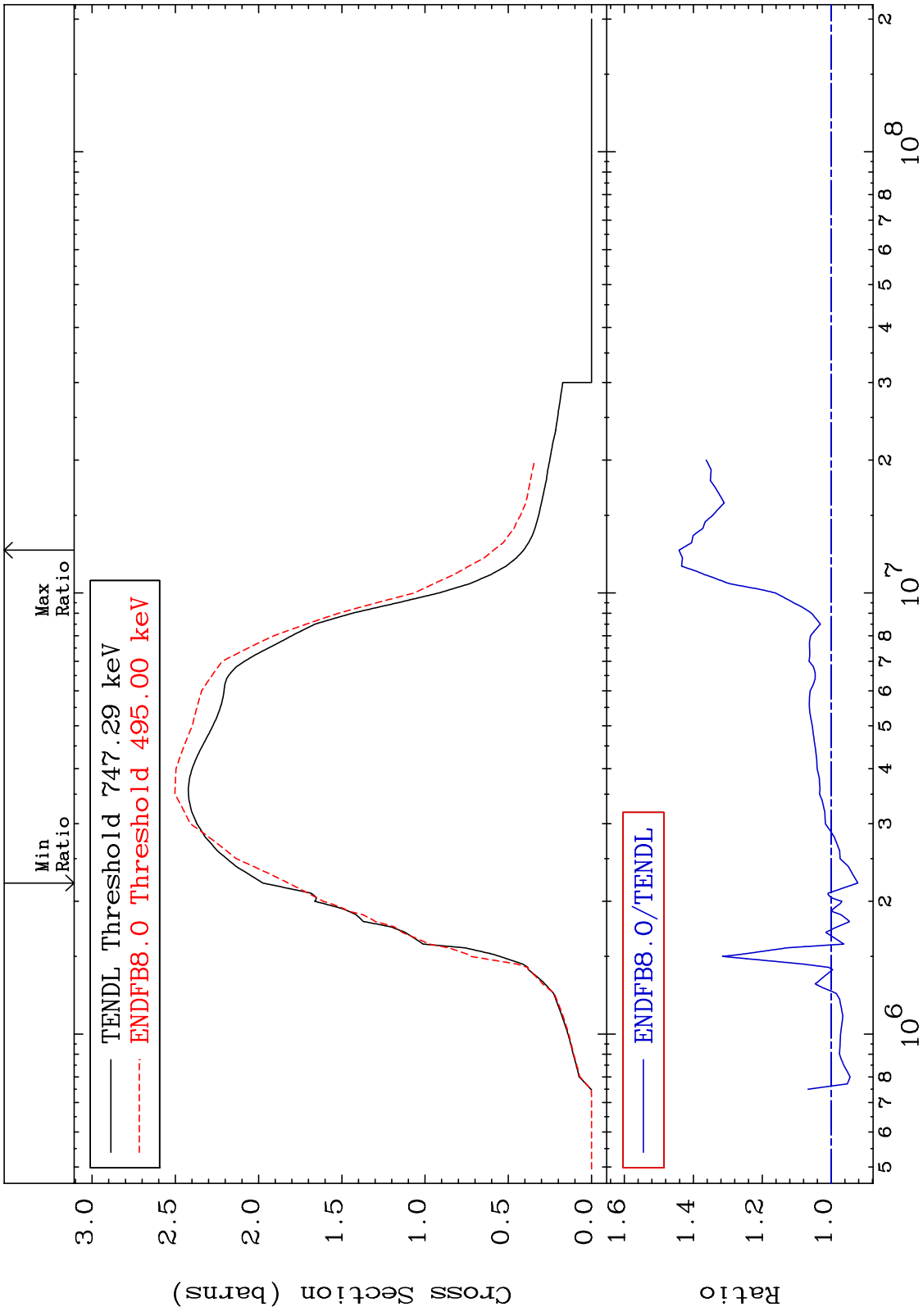


2

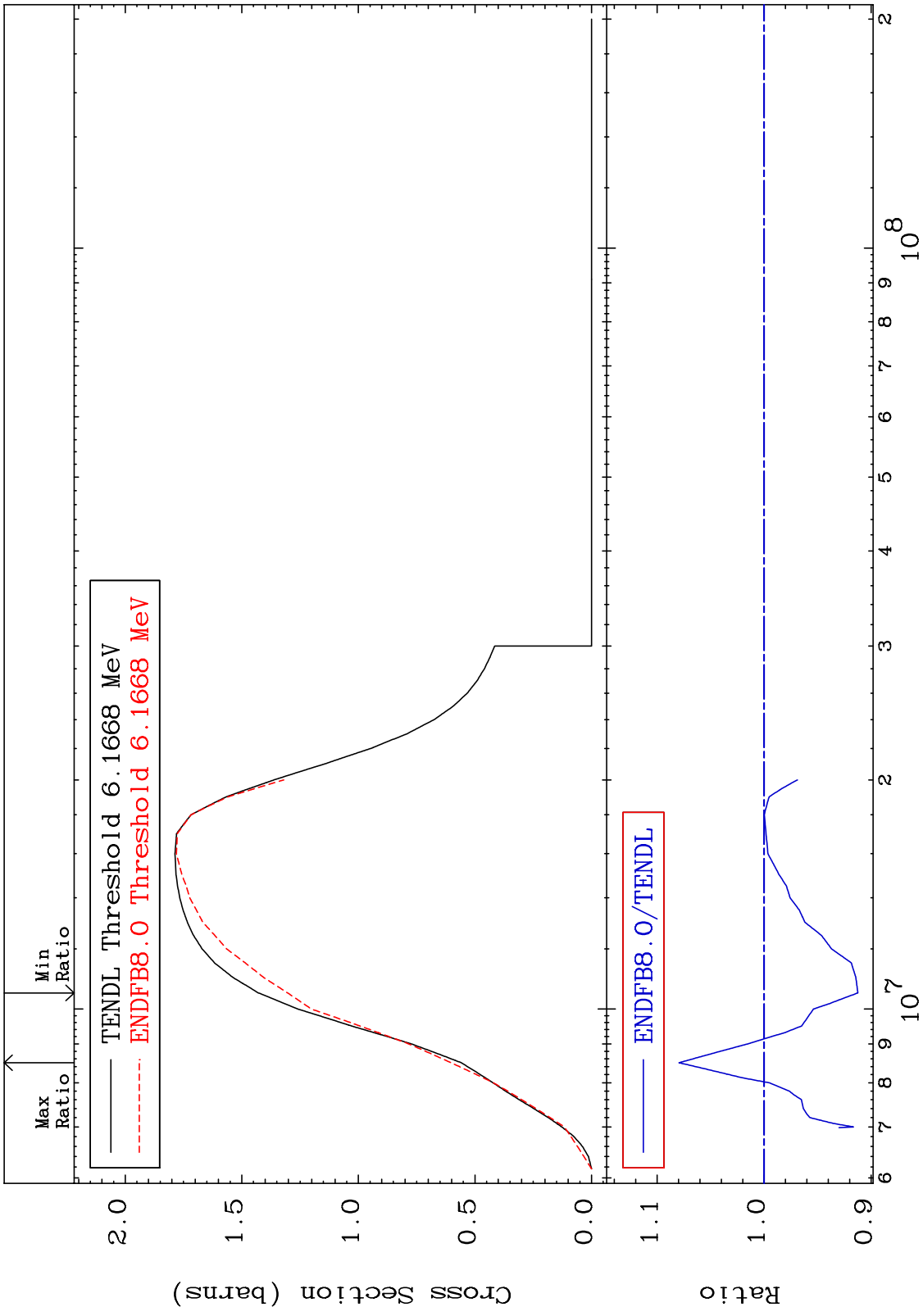
Incident Energy (eV)

60-Nd-143

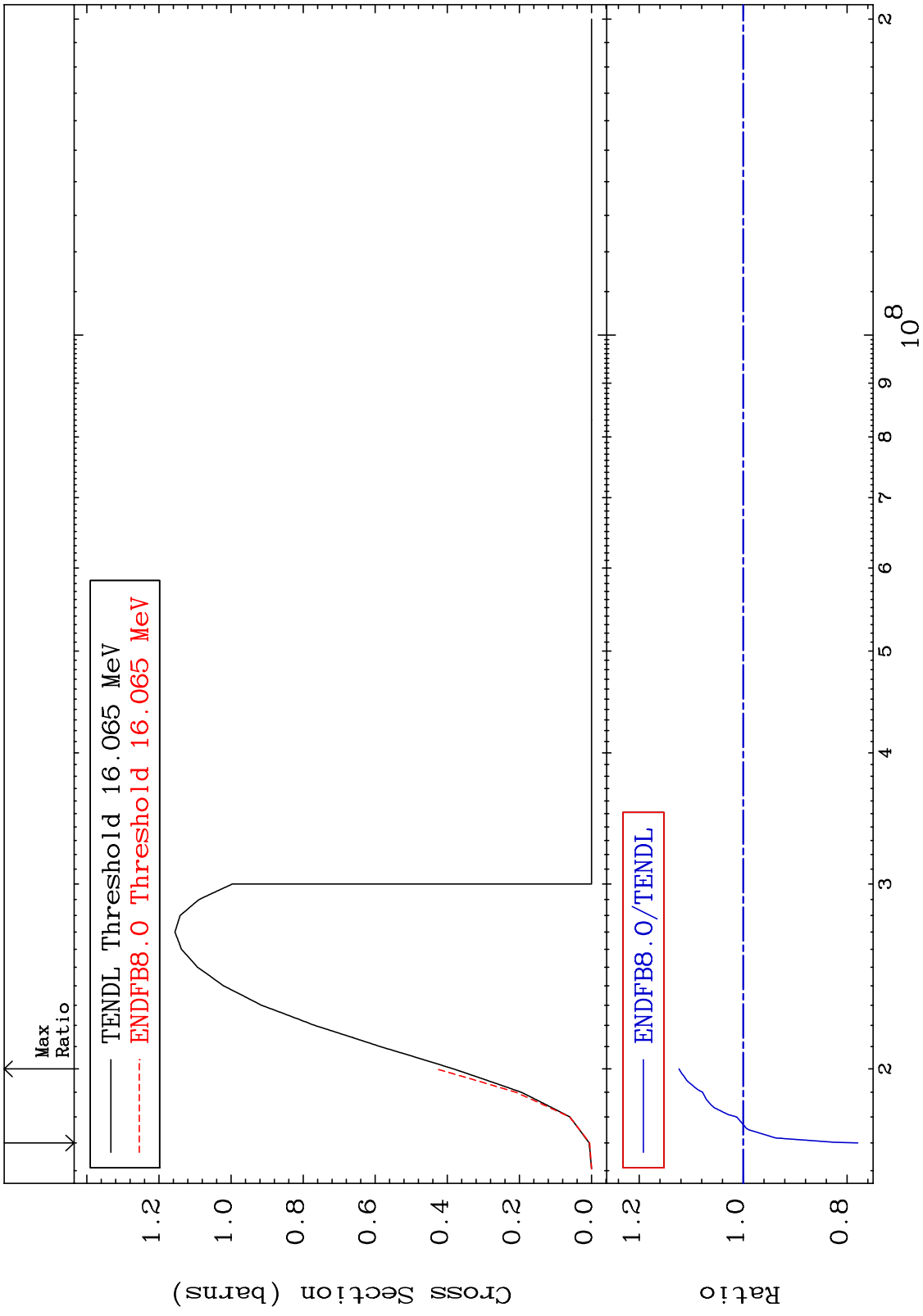
MAT 6028 60-Nd-143
-7.741 To 44.14 %



MAT 6028 (n,2n) Cross Section 60-Nd-143 -8.753 To 7.945 %



MAT 6028 (n,3n) Cross Section 60-Nd-143 -22.07 To 12.34 %



5 Incident Energy (eV) 60-Nd-143

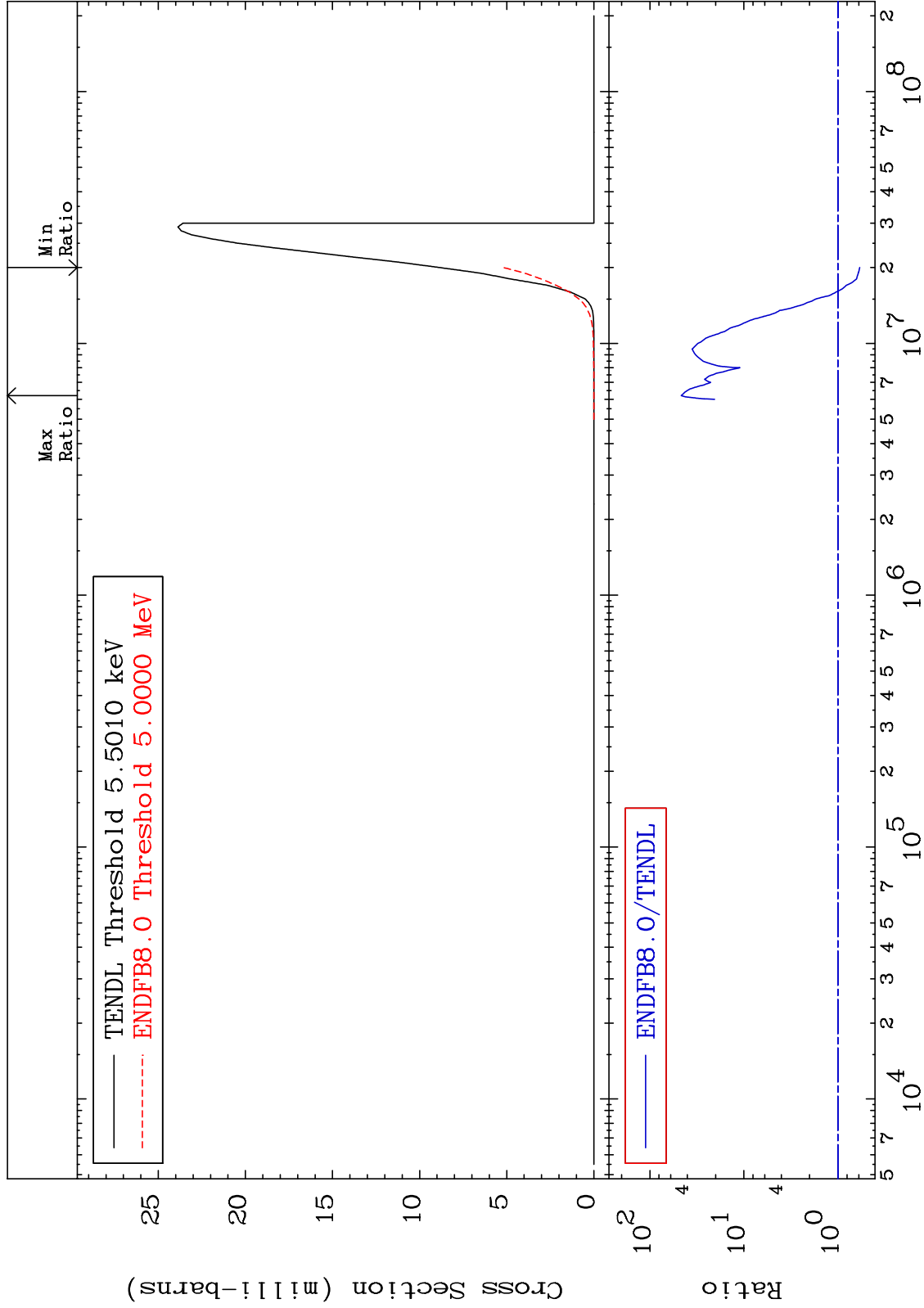
MAT 6028

$(n, n') \alpha$

60-Nd-143

Cross Section

-41.47 To 4541. %



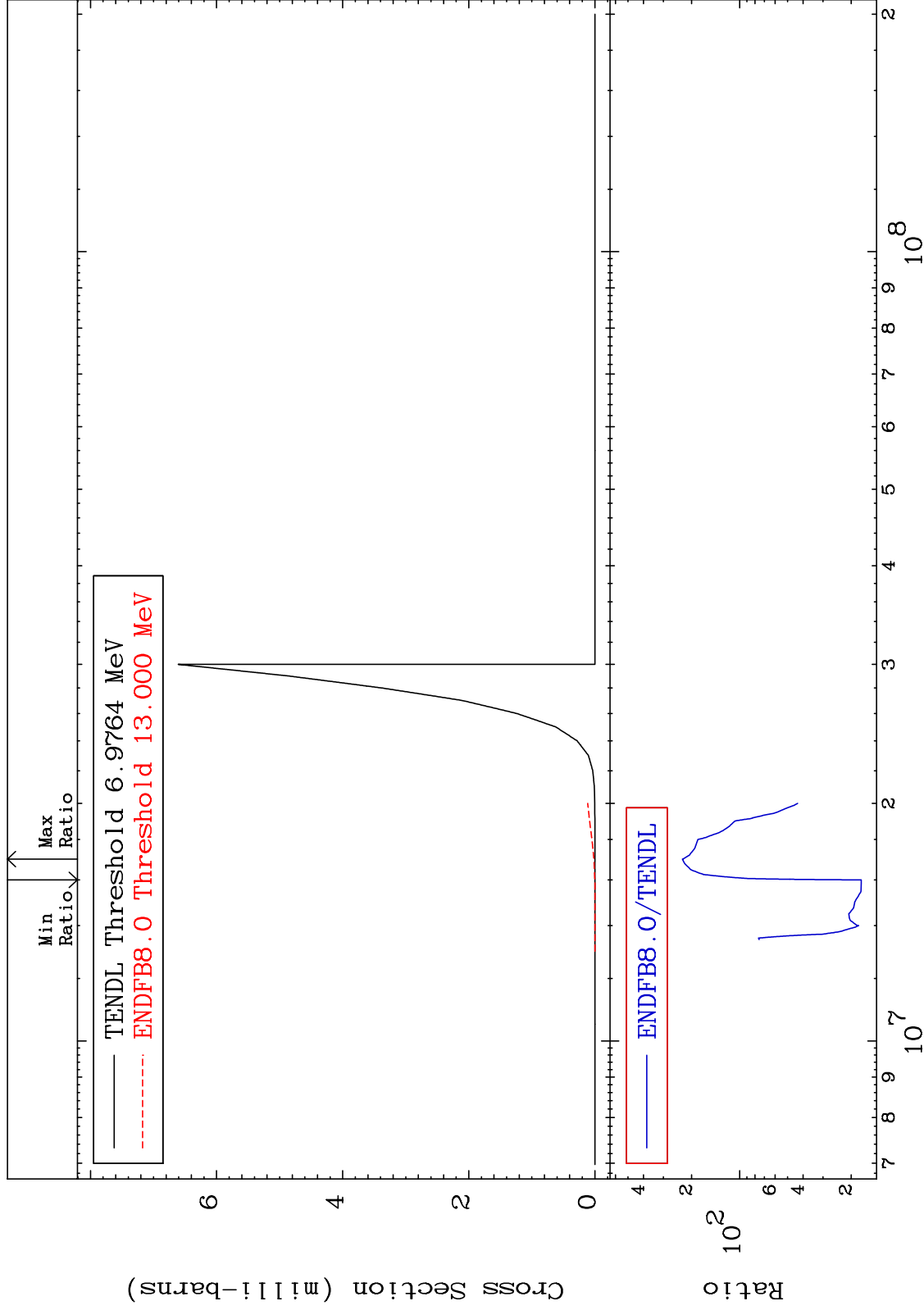
MAT 6028

(n,2n) α

60-Nd-143

1628. To 9999. %

Cross Section

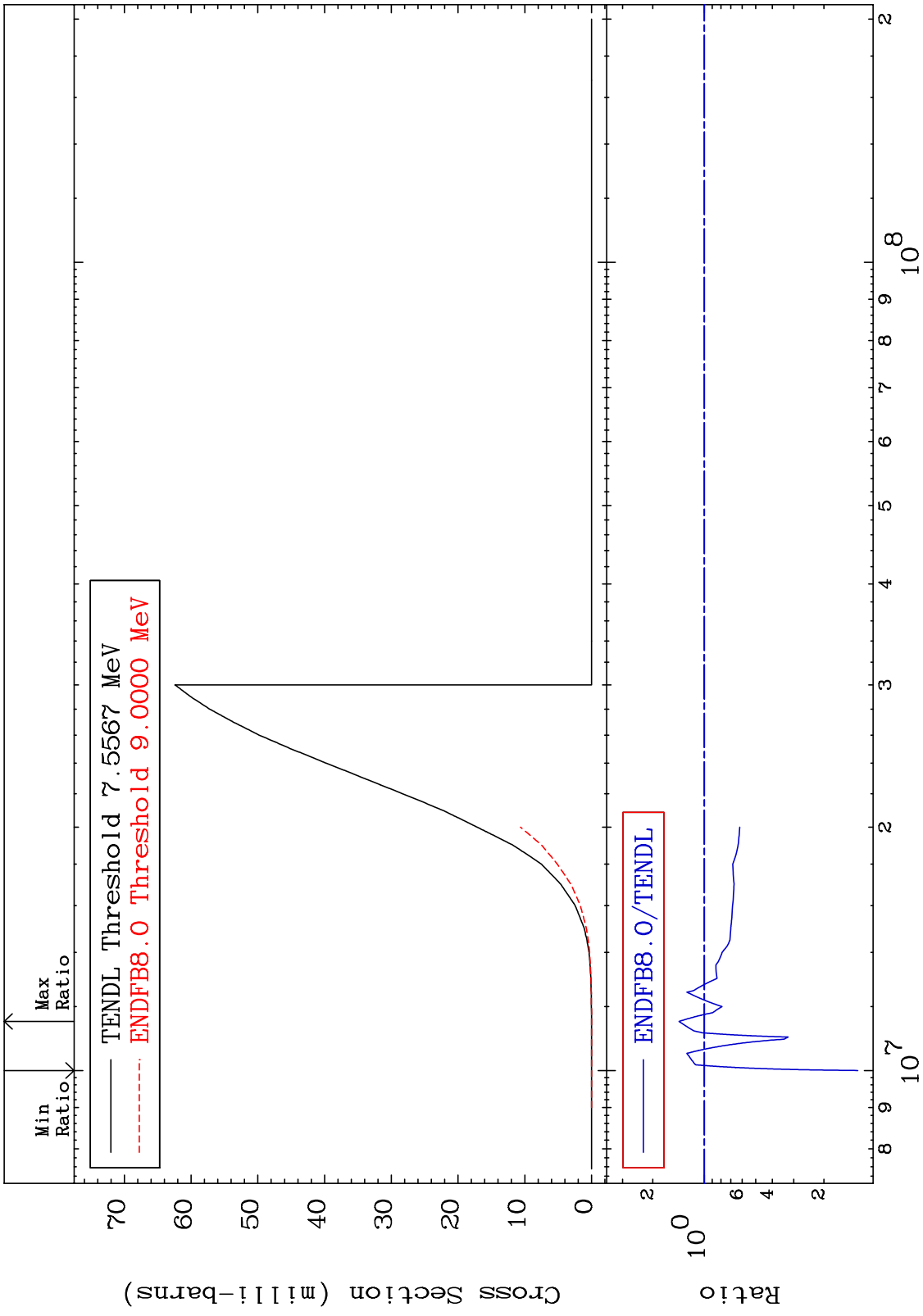


7

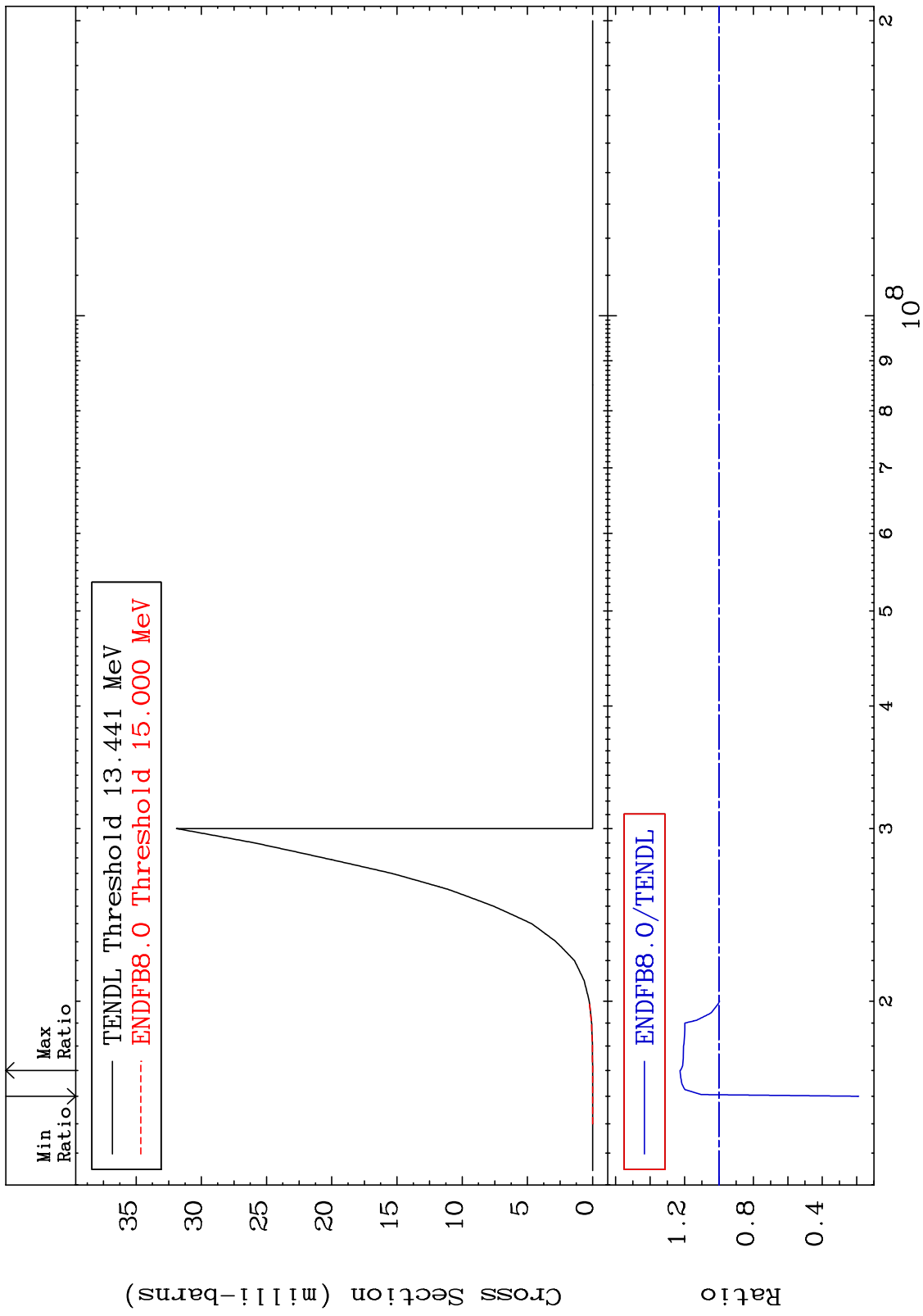
Incident Energy (eV)

60-Nd-143

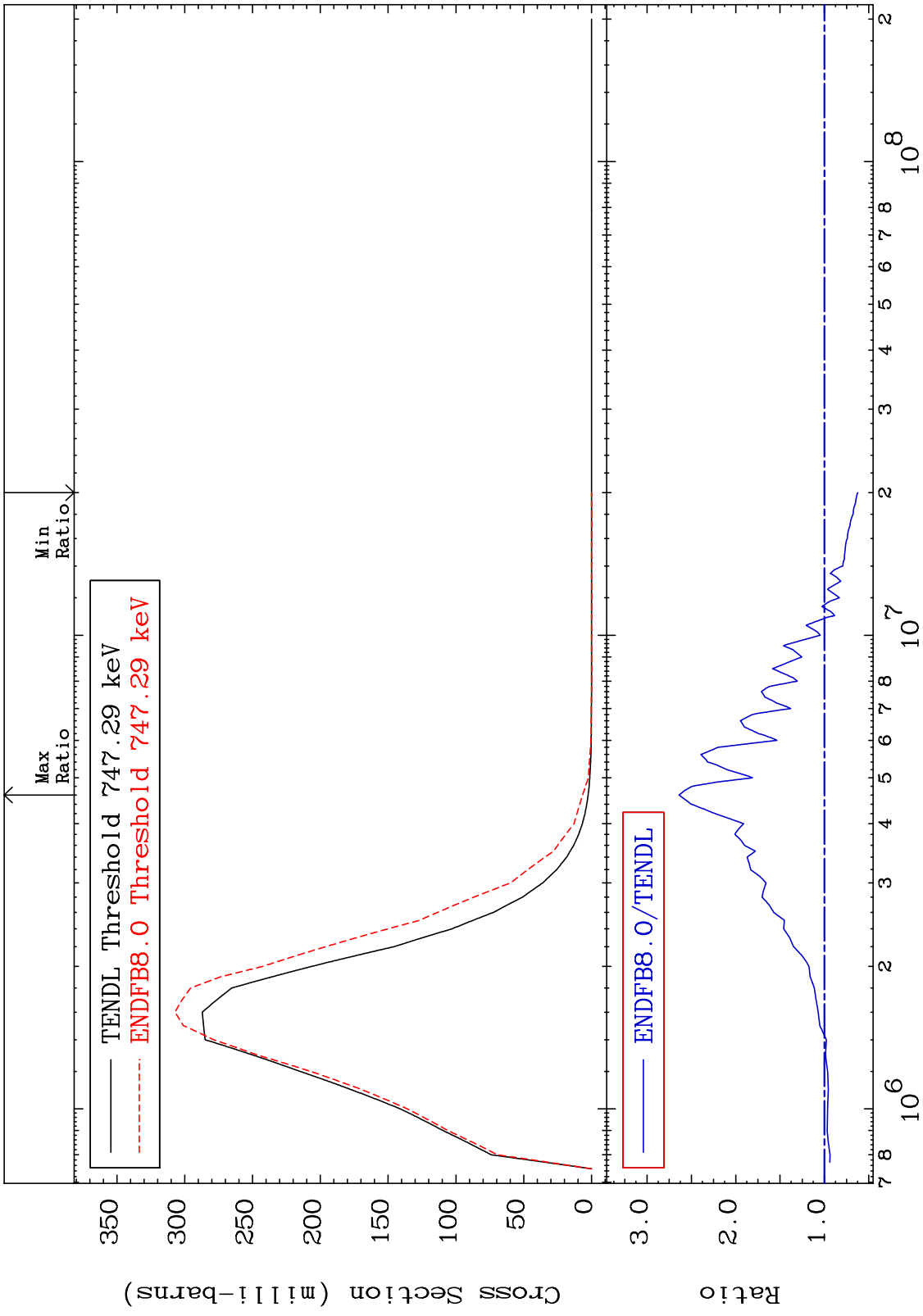
MAT 6028 (n,n') p 60-Nd-143
 Cross Section -87.34 To 40.48 %



8 Incident Energy (eV) 60-Nd-143

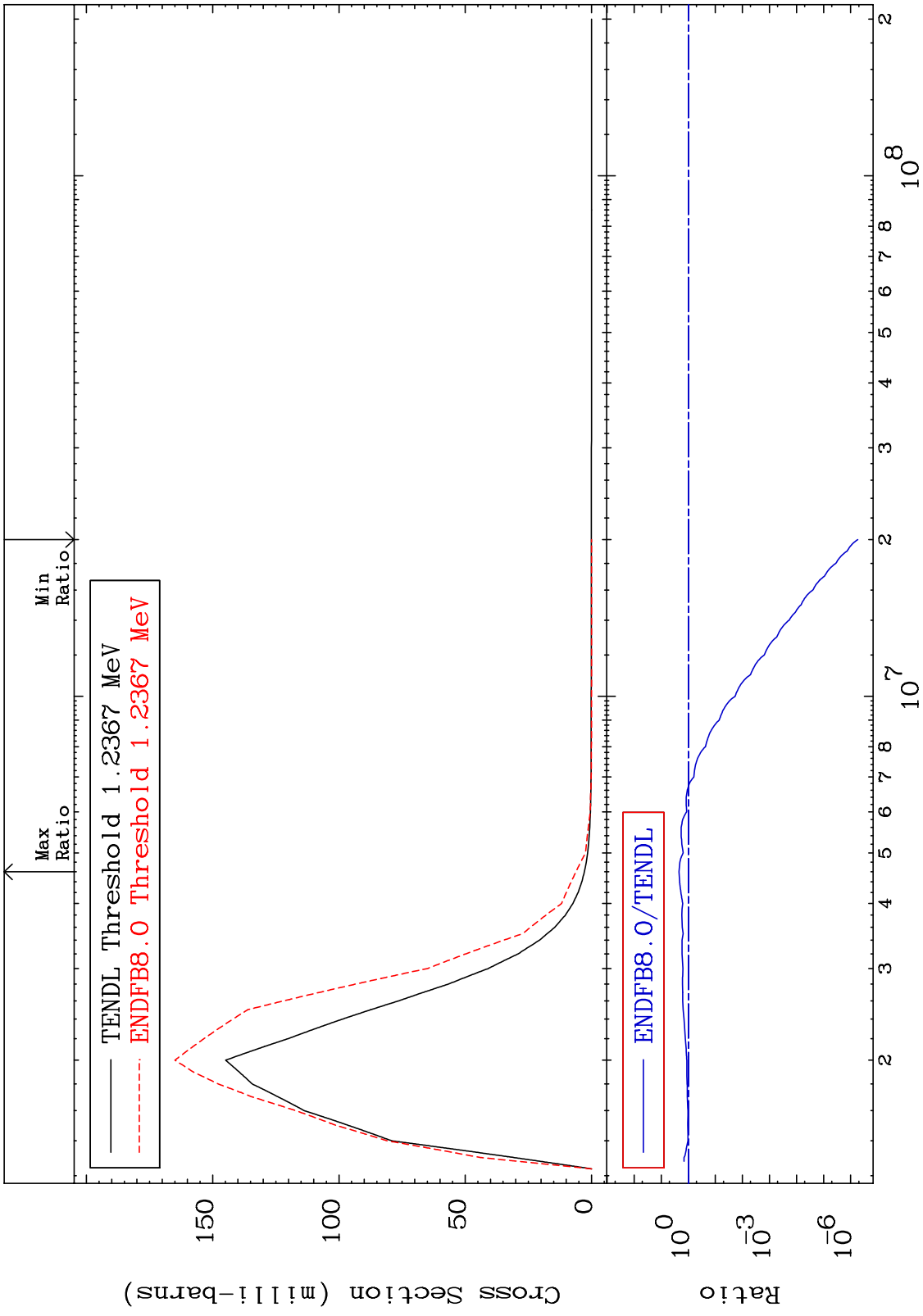


MAT 6028 MT= 51 (n,n') Level Cross Section 60-Nd-143
-37.73 To 163.9 %

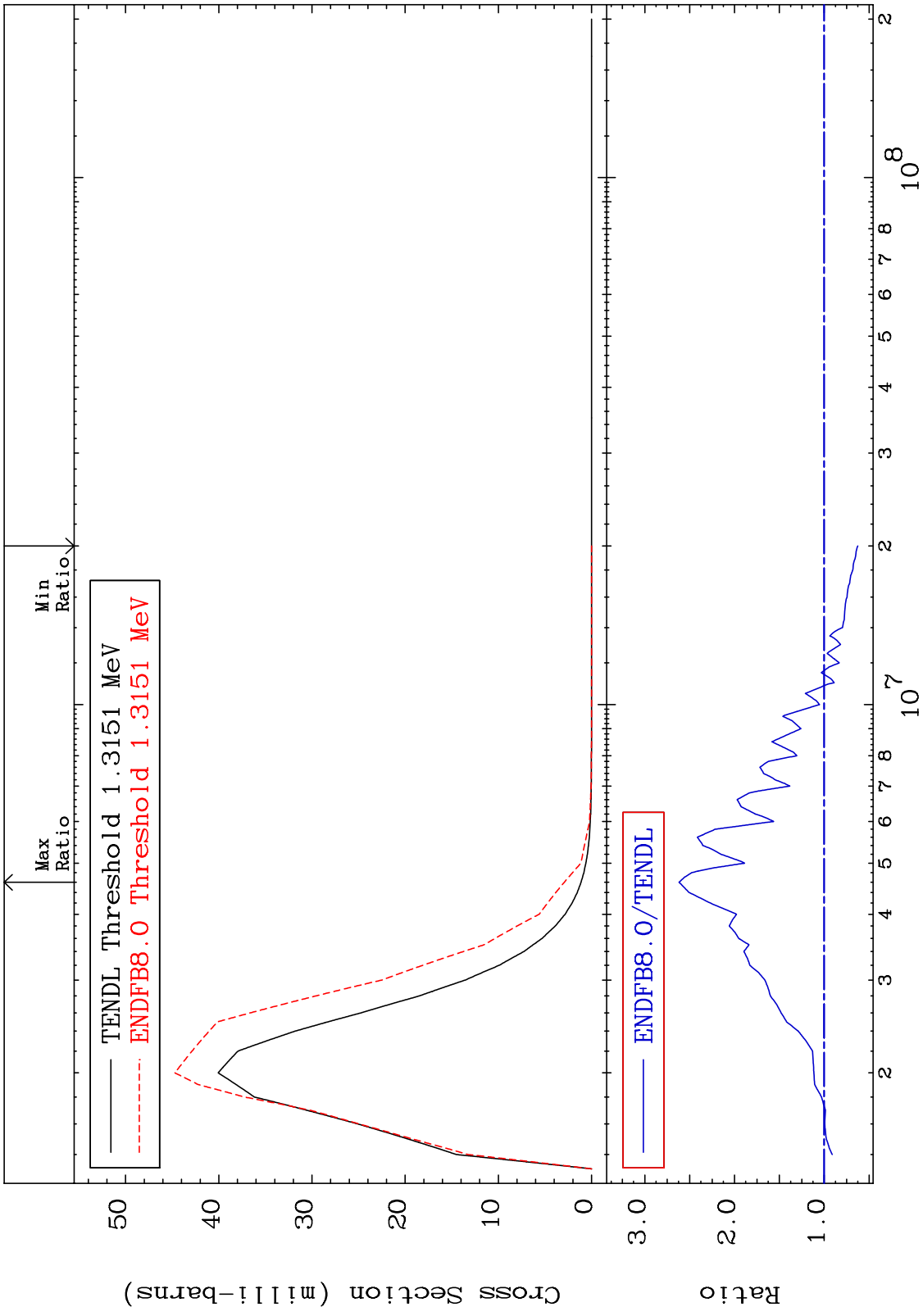


Incident Energy (eV) 60-Nd-143

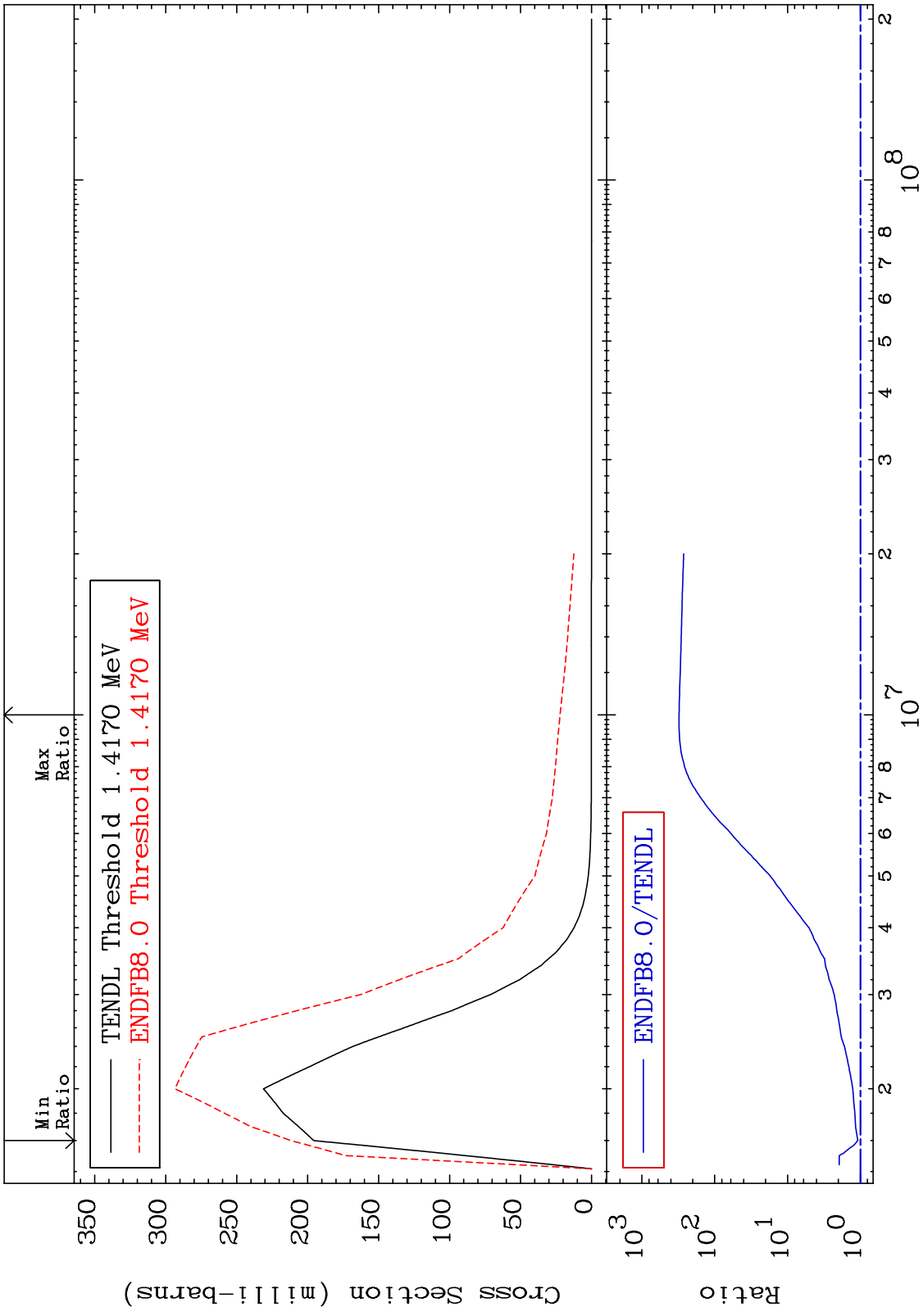
MAT 6028 MT= 52 (n, n') Level Cross Section 60-Nd-143
 -100.0 To 119.3 %



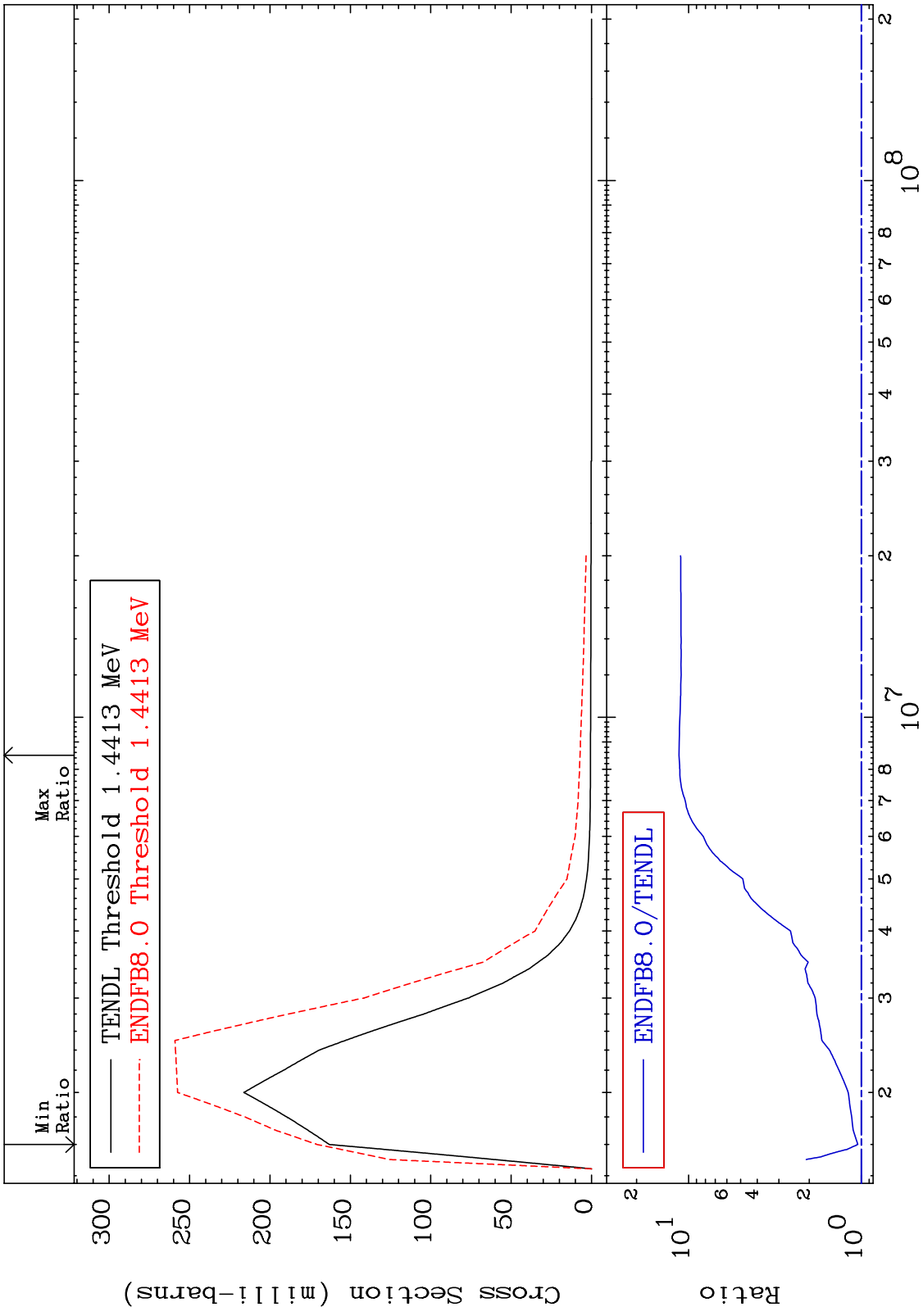
MAT 6028 MT= 53 (n,n') Level Cross Section 60-Nd-143
 -37.49 To 161.8 %



MAT 6028 MT= 54 (n,n') Level Cross Section 60-Nd-143 To 9999. %
 8.163



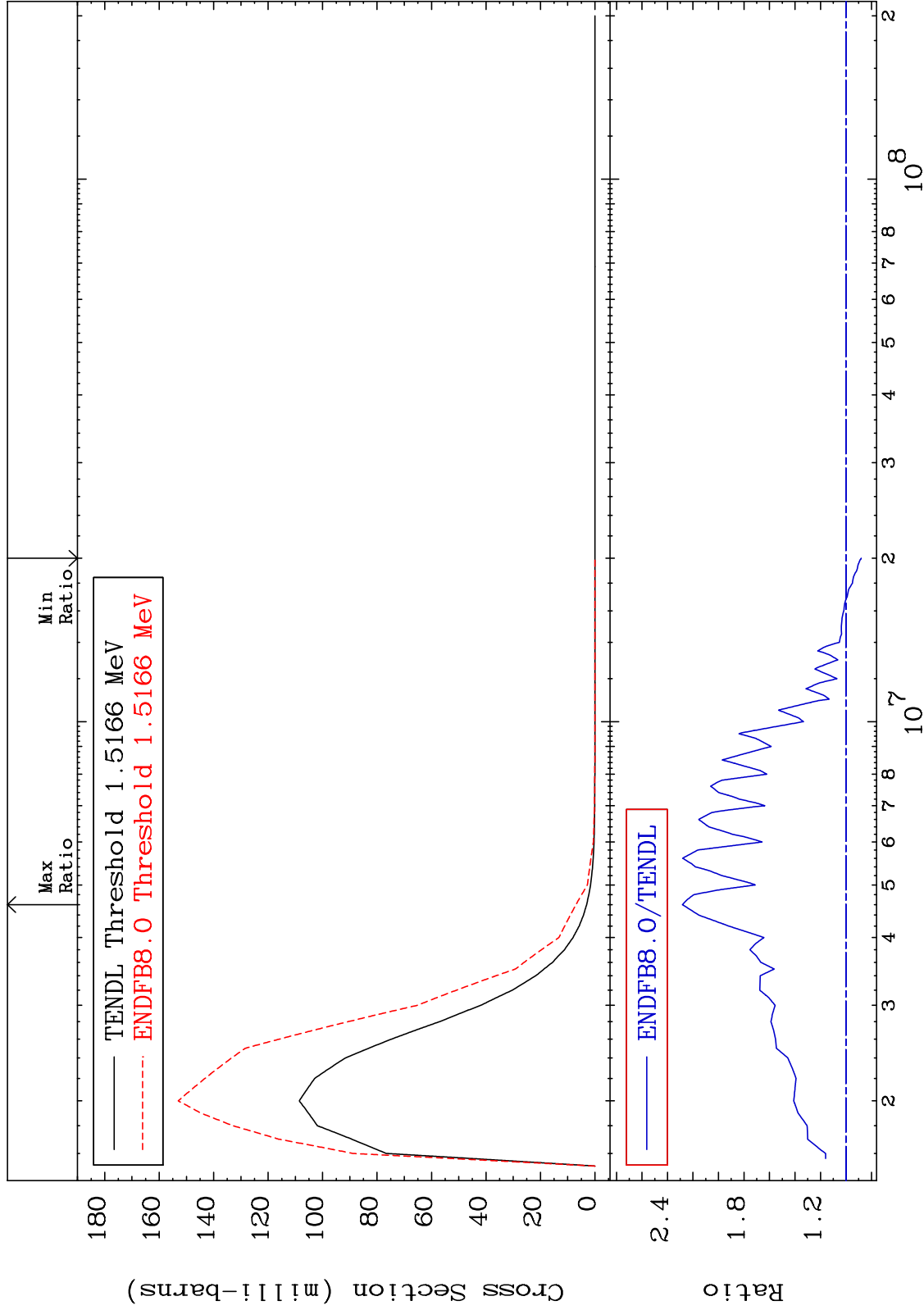
MAT 6028 MT= 55 (n,n') Level Cross Section 60-Nd-143
 4.754 To 1036. %



MAT 6028

MT= 56 (n,n') Level
Cross Section

60-Nd-143
-12.02 To 128.3 %

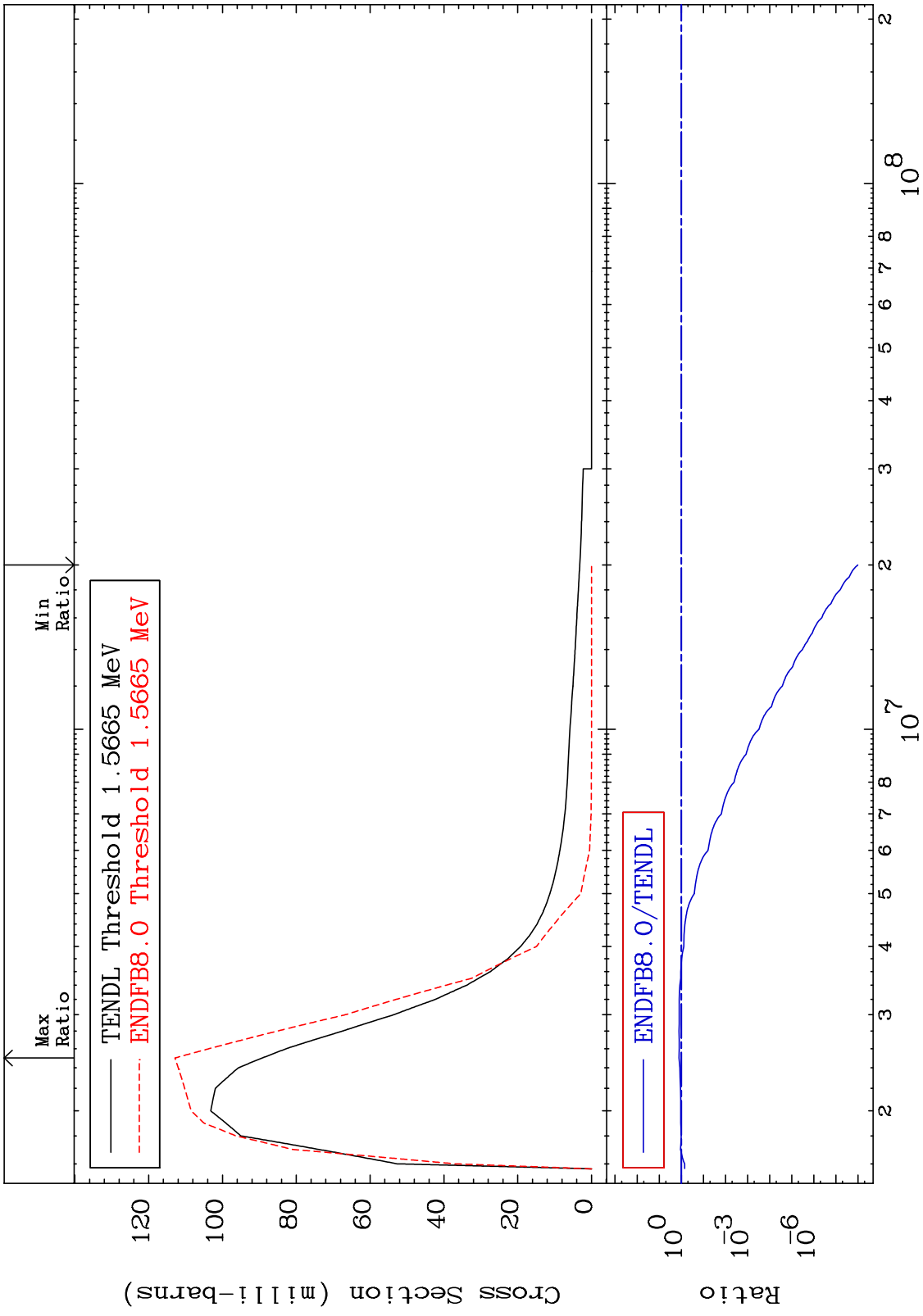


15

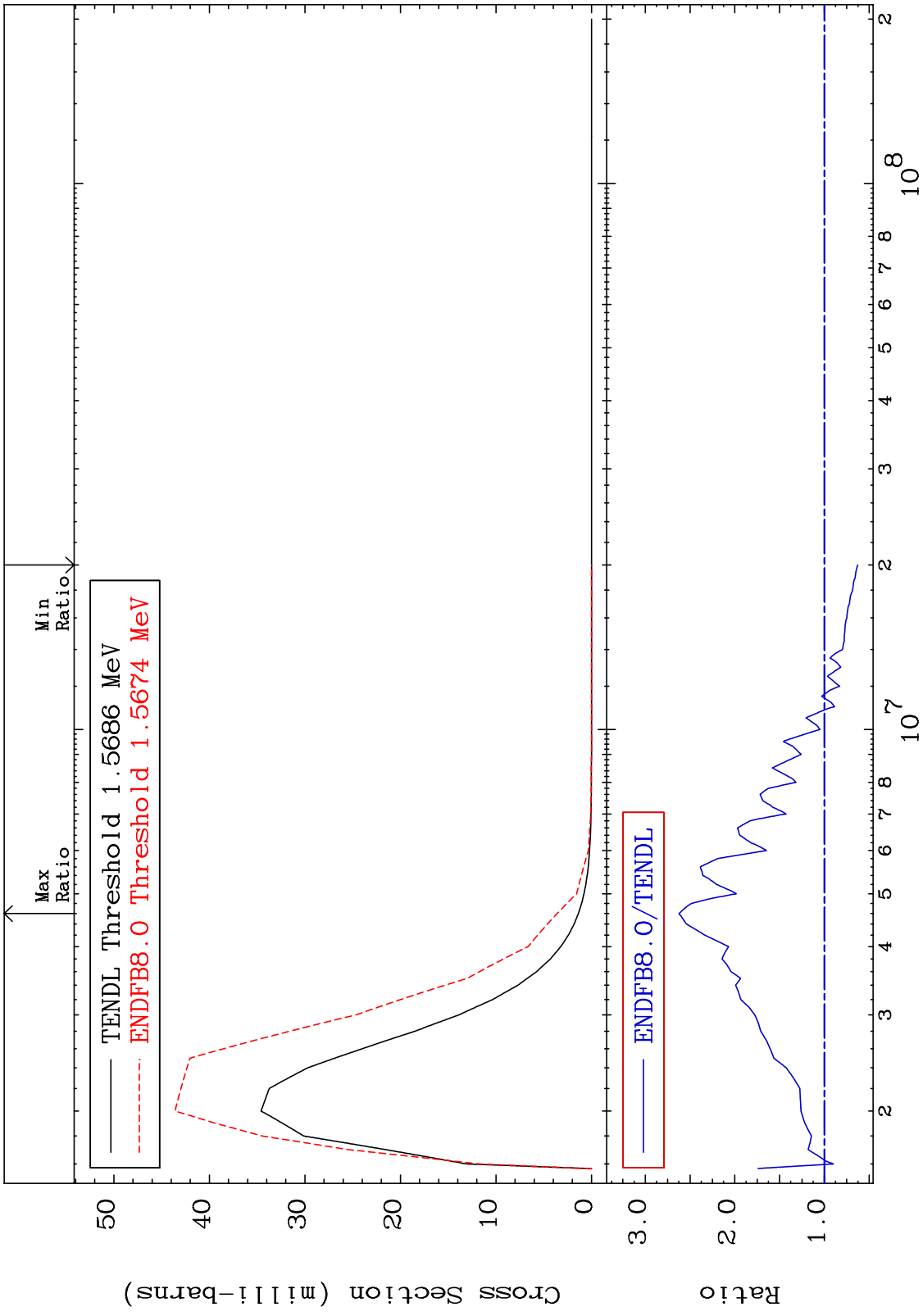
Incident Energy (eV)

60-Nd-143

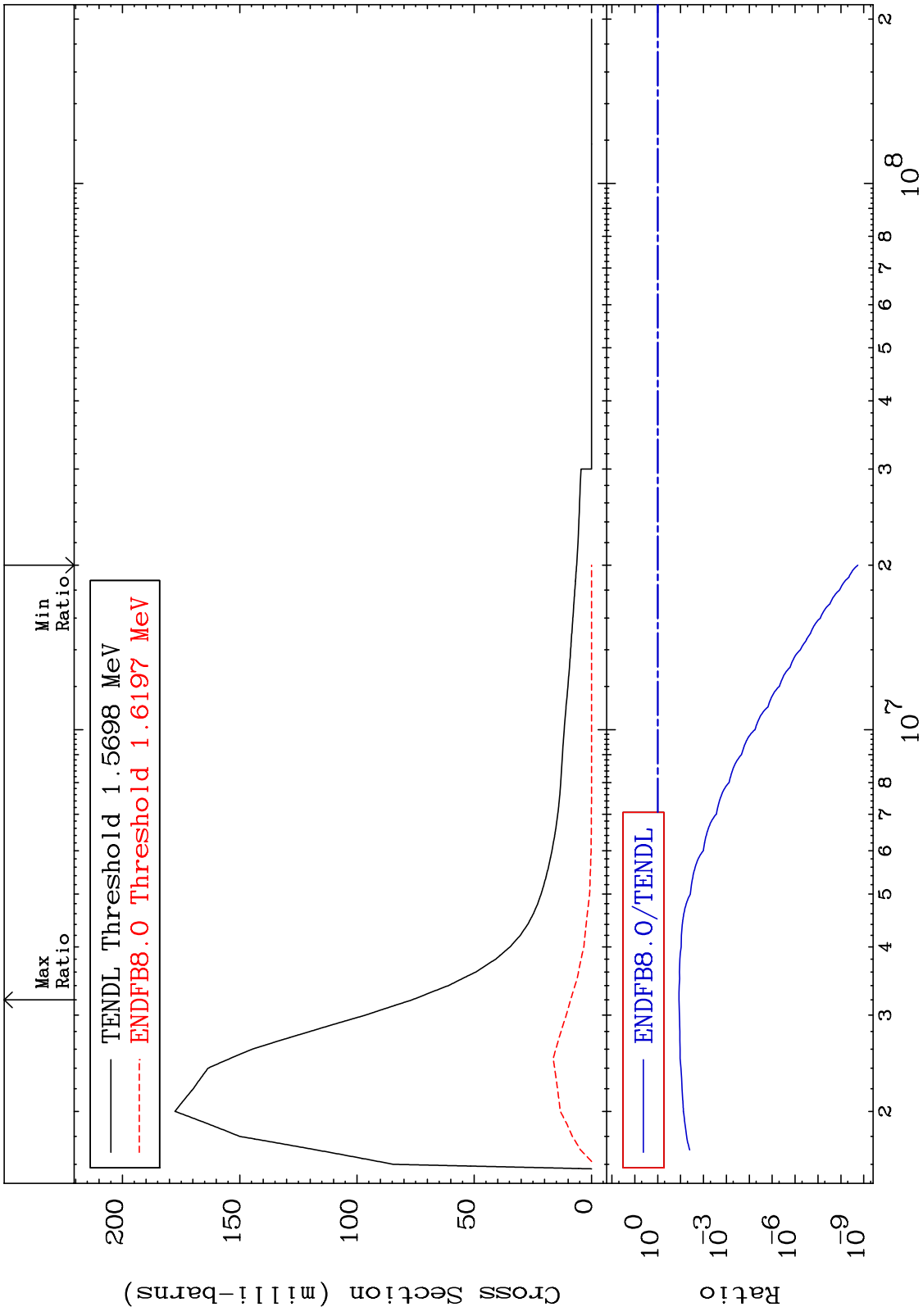
MAT 6028 MT= 57 (n,n') Level Cross Section 60-Nd-143
 -100.0 To 26.53 %



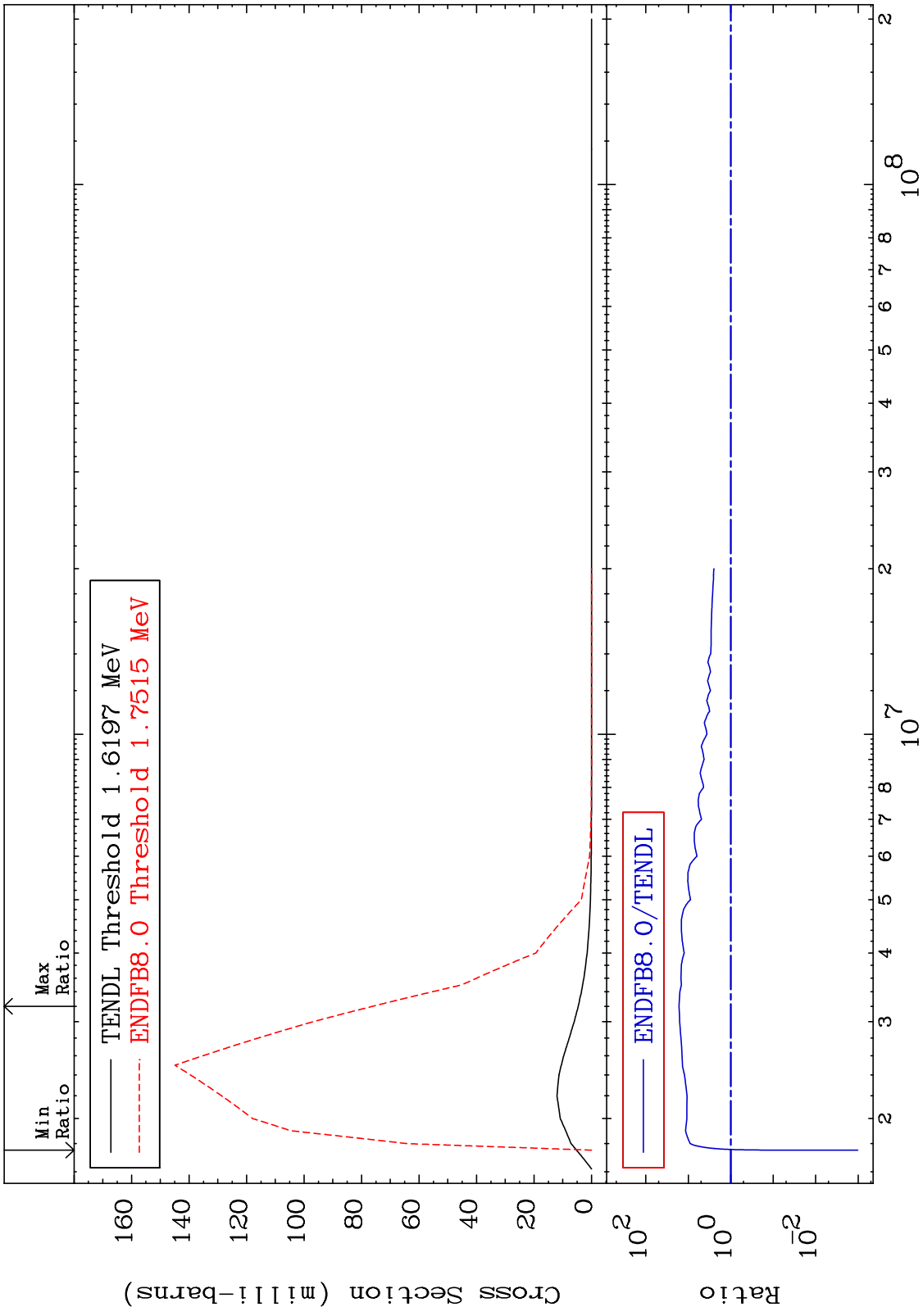
MAT 6028 MT= 58 (n,n') Level Cross Section 60-Nd-143
 -37.42 To 162.3 %



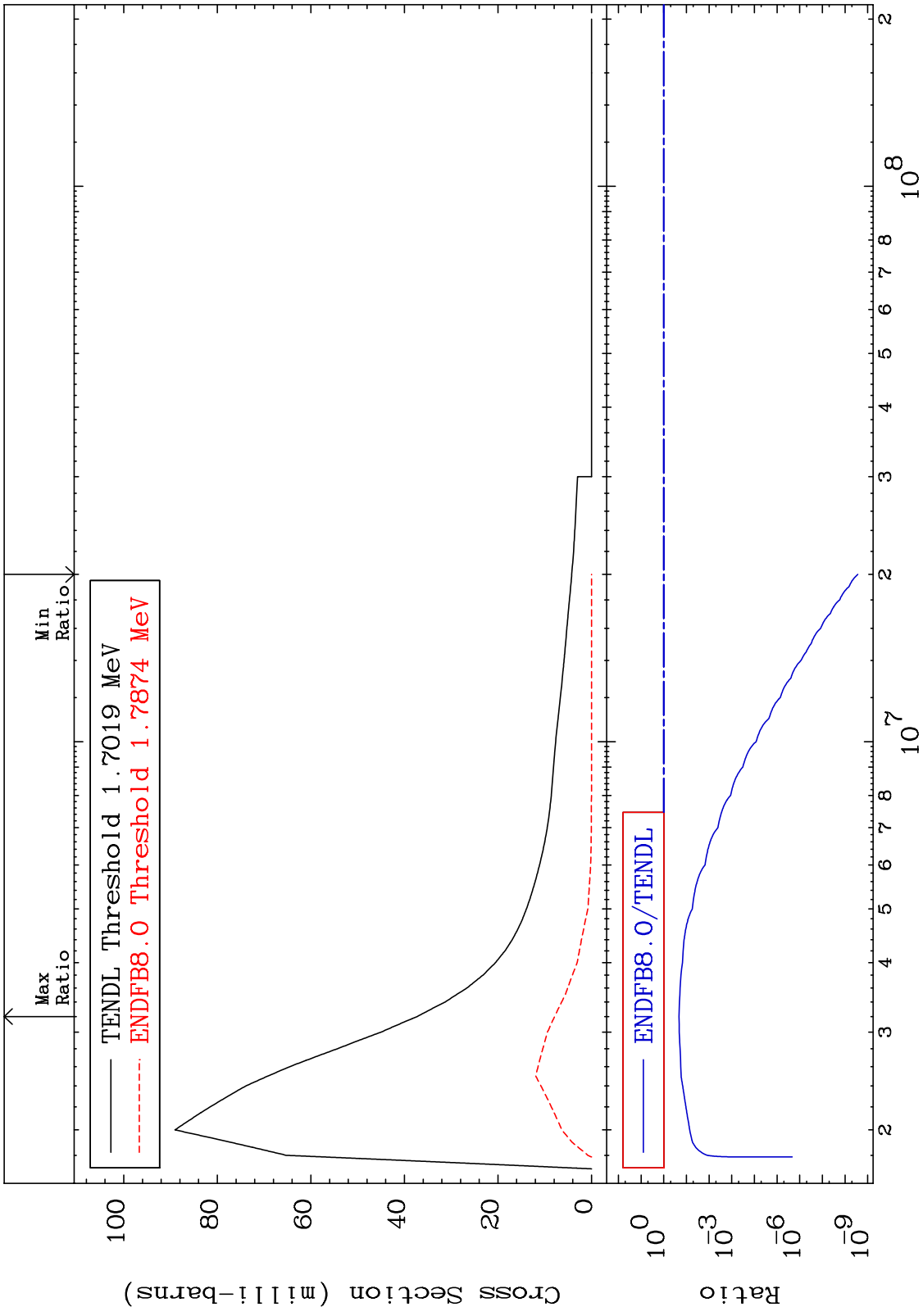
MAT 6028 MT= 59 (n,n') Level Cross Section 60-Nd-143
 -100.0 To -88.34%



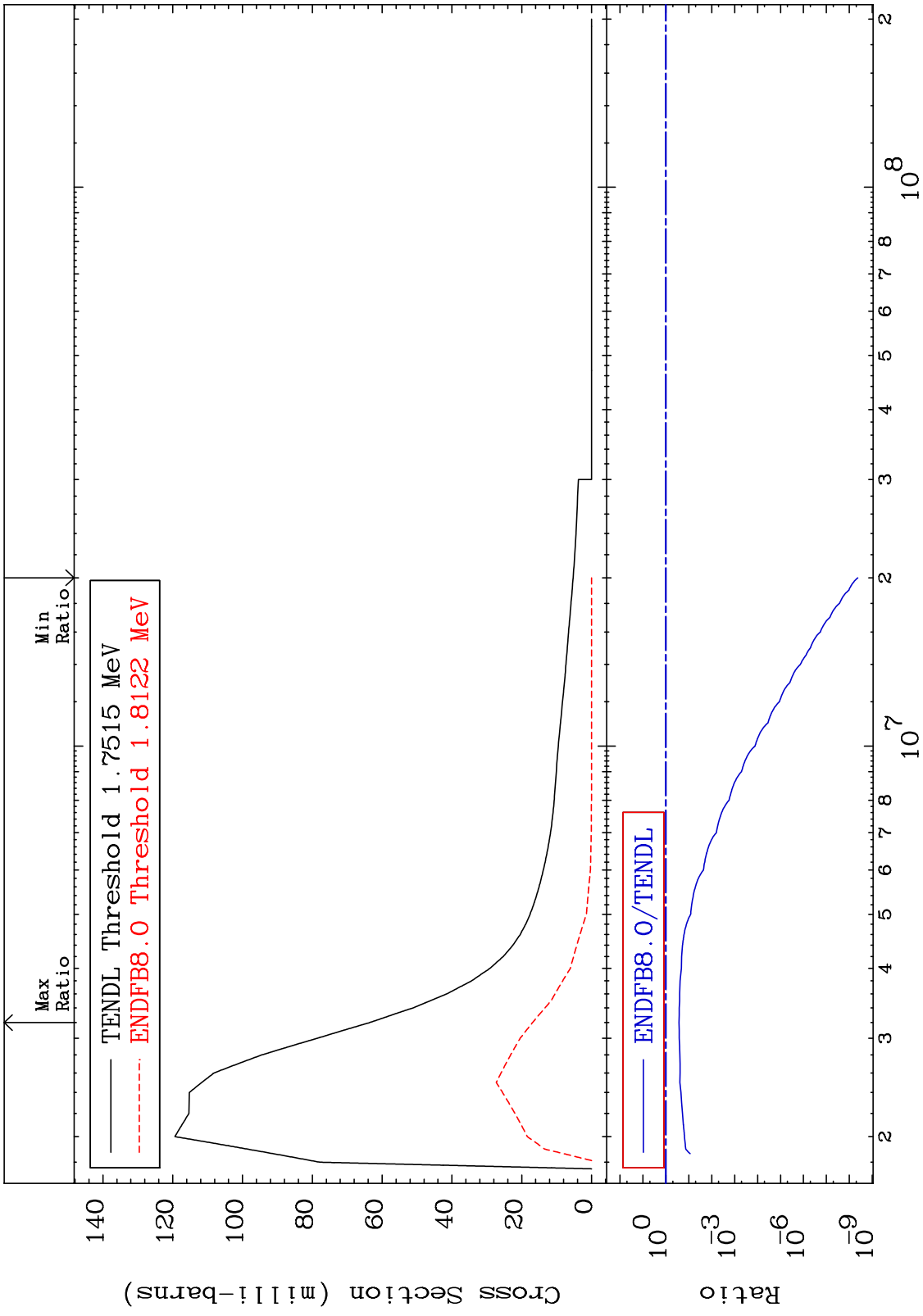
MAT 6028 MT= 60 (n,n') Level Cross Section 60-Nd-143
 -99.90 To 1551. %



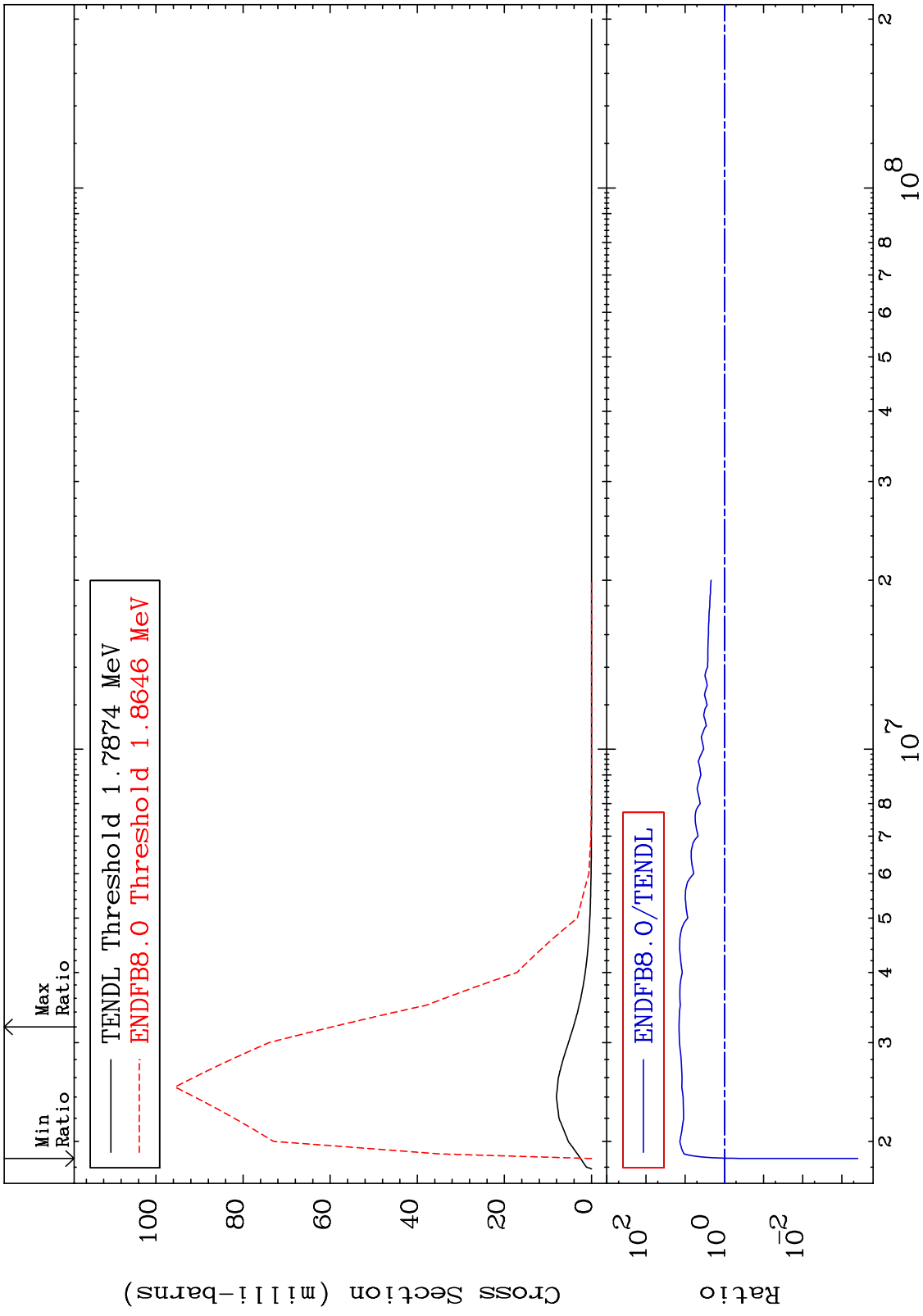
MAT 6028 MT= 61 (n,n') Level Cross Section 60-Nd-143
 -100.0 To -78.83%



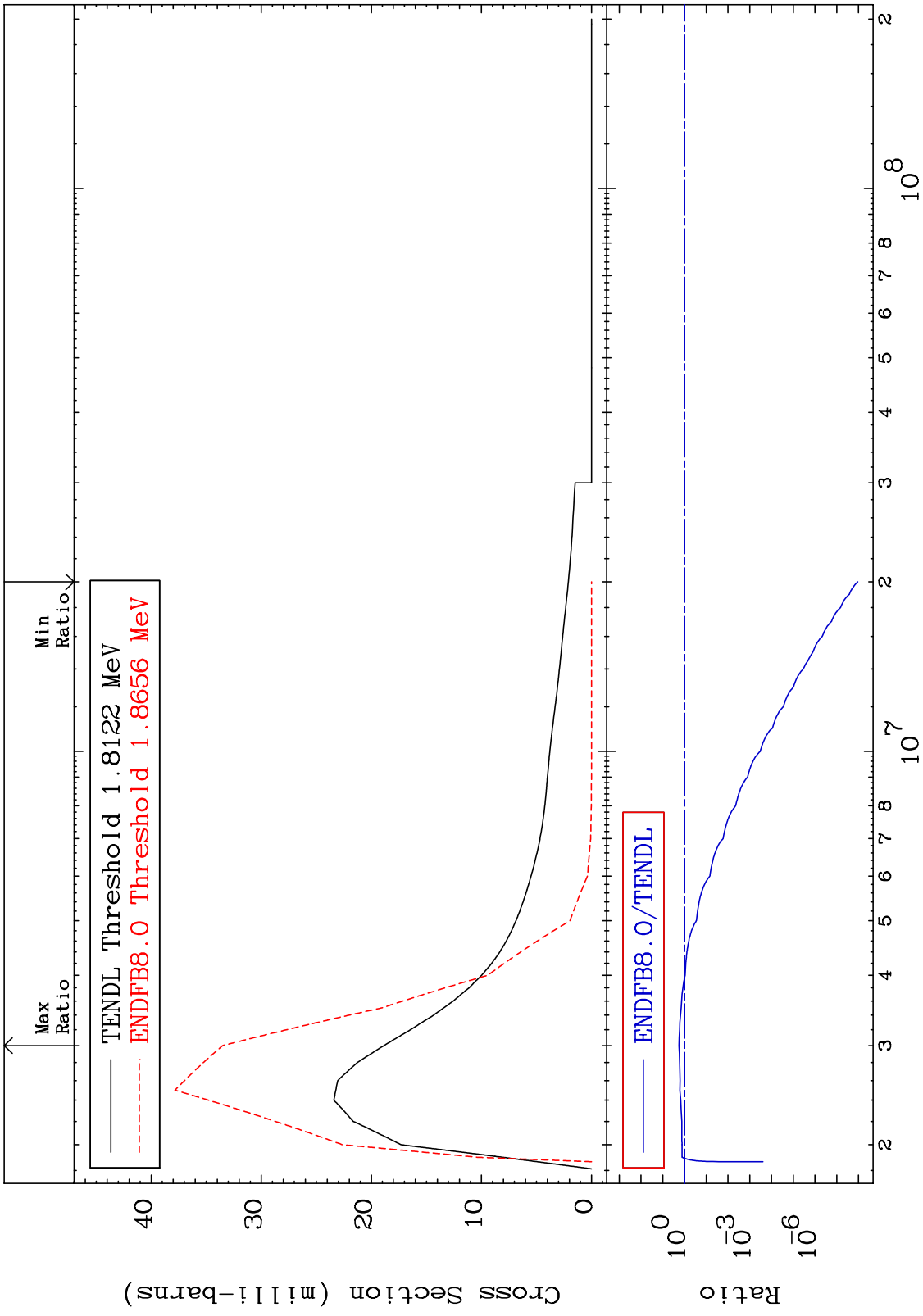
MAT 6028 MT= 62 (n,n') Level Cross Section 60-Nd-143
 -100.0 To -73.41%



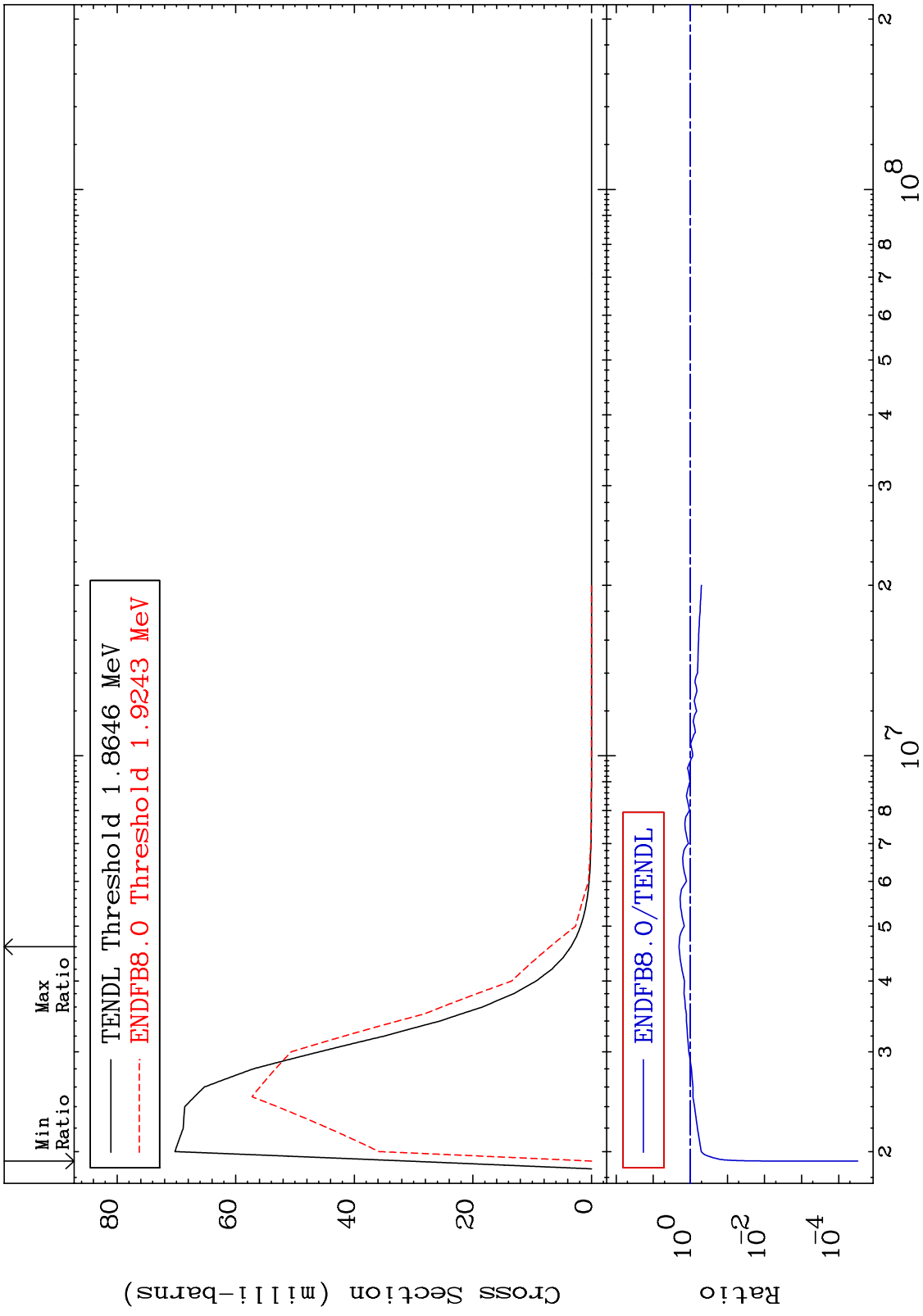
MAT 6028 MT= 63 (n,n') Level Cross Section 60-Nd-143
 -99.96 To 1334. %



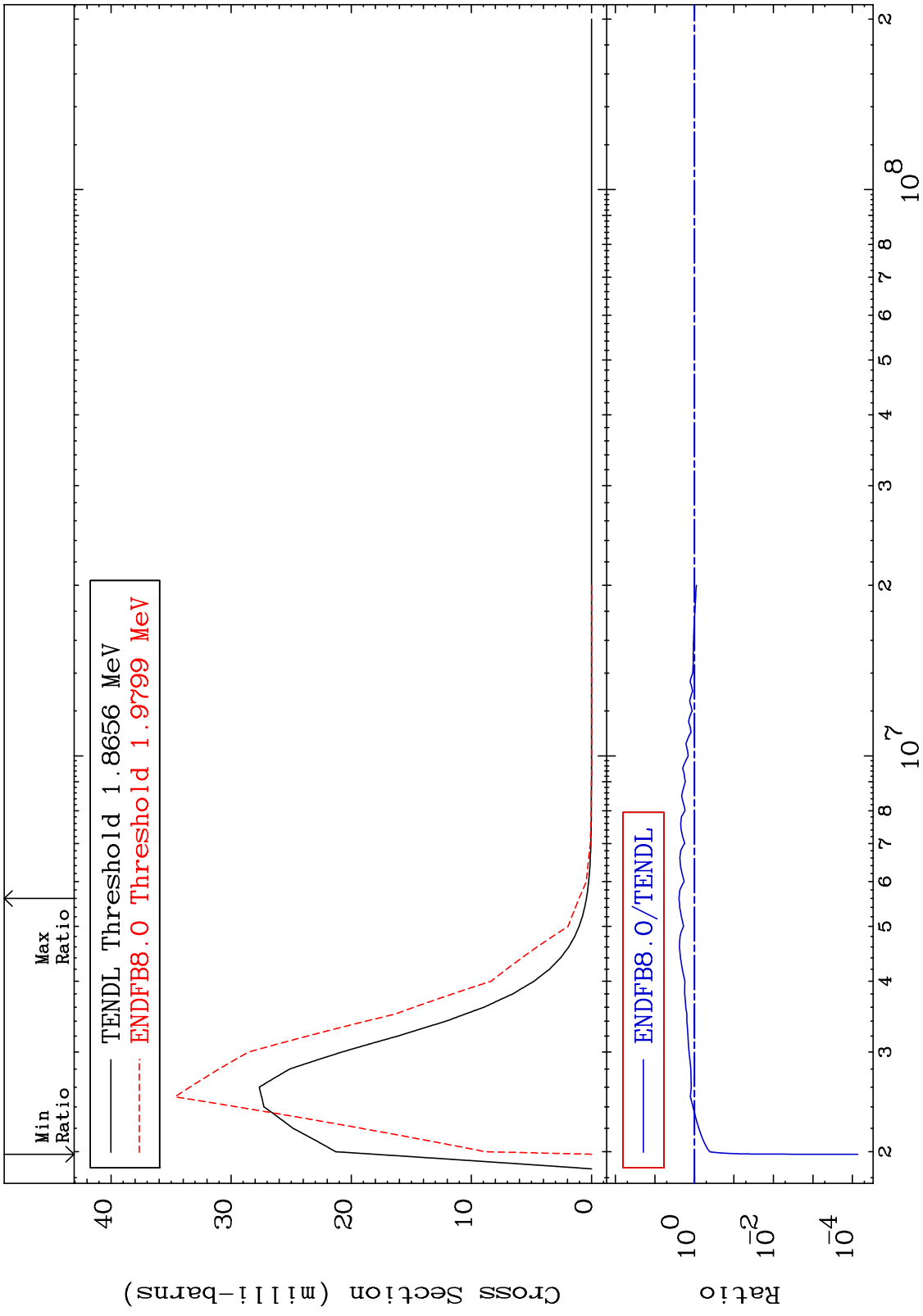
MAT 6028 MT= 64 (n,n') Level Cross Section 60-Nd-143
 -100.0 To 77.73 %

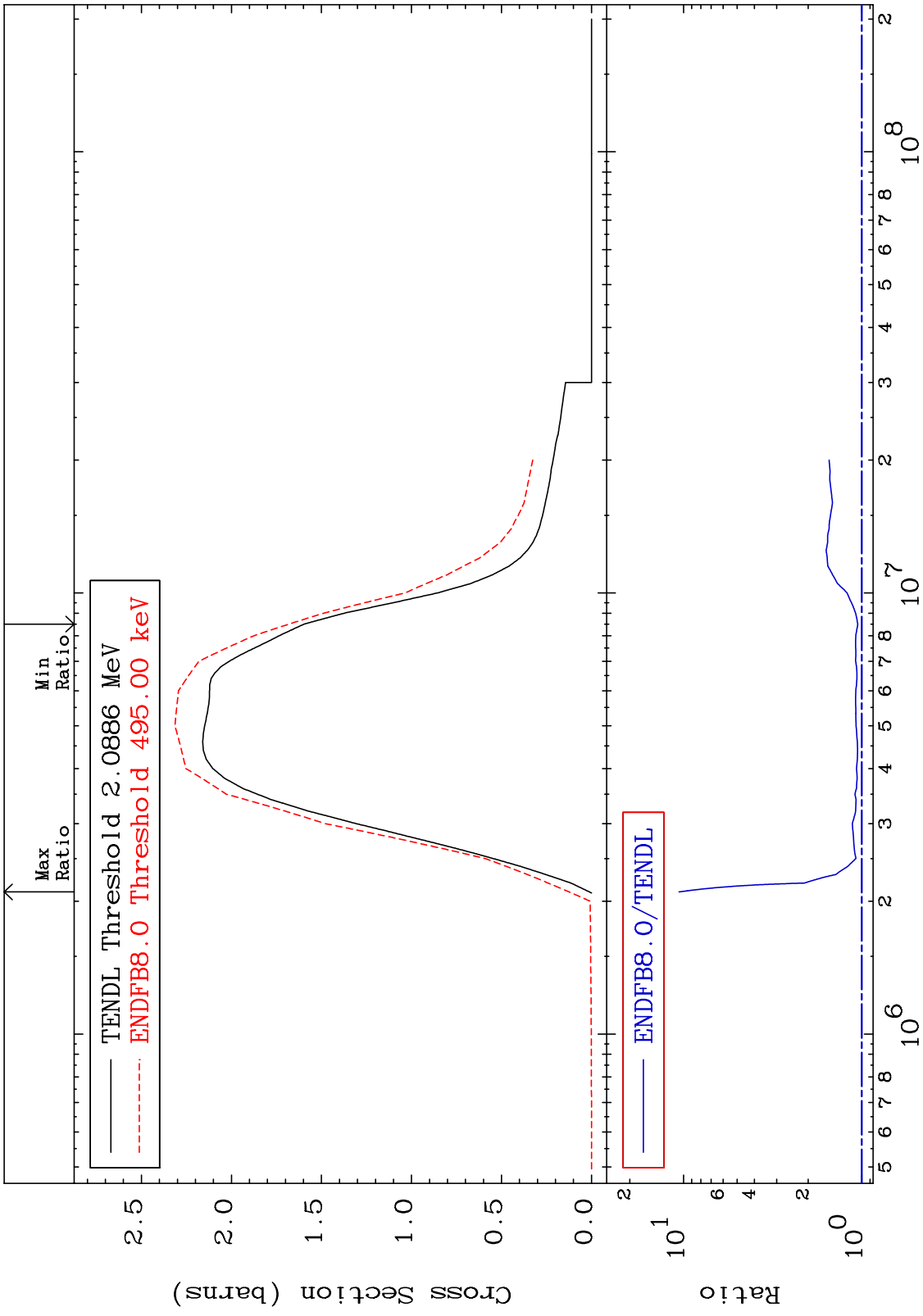


MAT 6028 MT= 65 (n,n') Level Cross Section 60-Nd-143
 -100.0 To 102.1 %



MAT 6028 MT= 66 (n,n') Level Cross Section 60-Nd-143
 -99.99 To 144.9 %



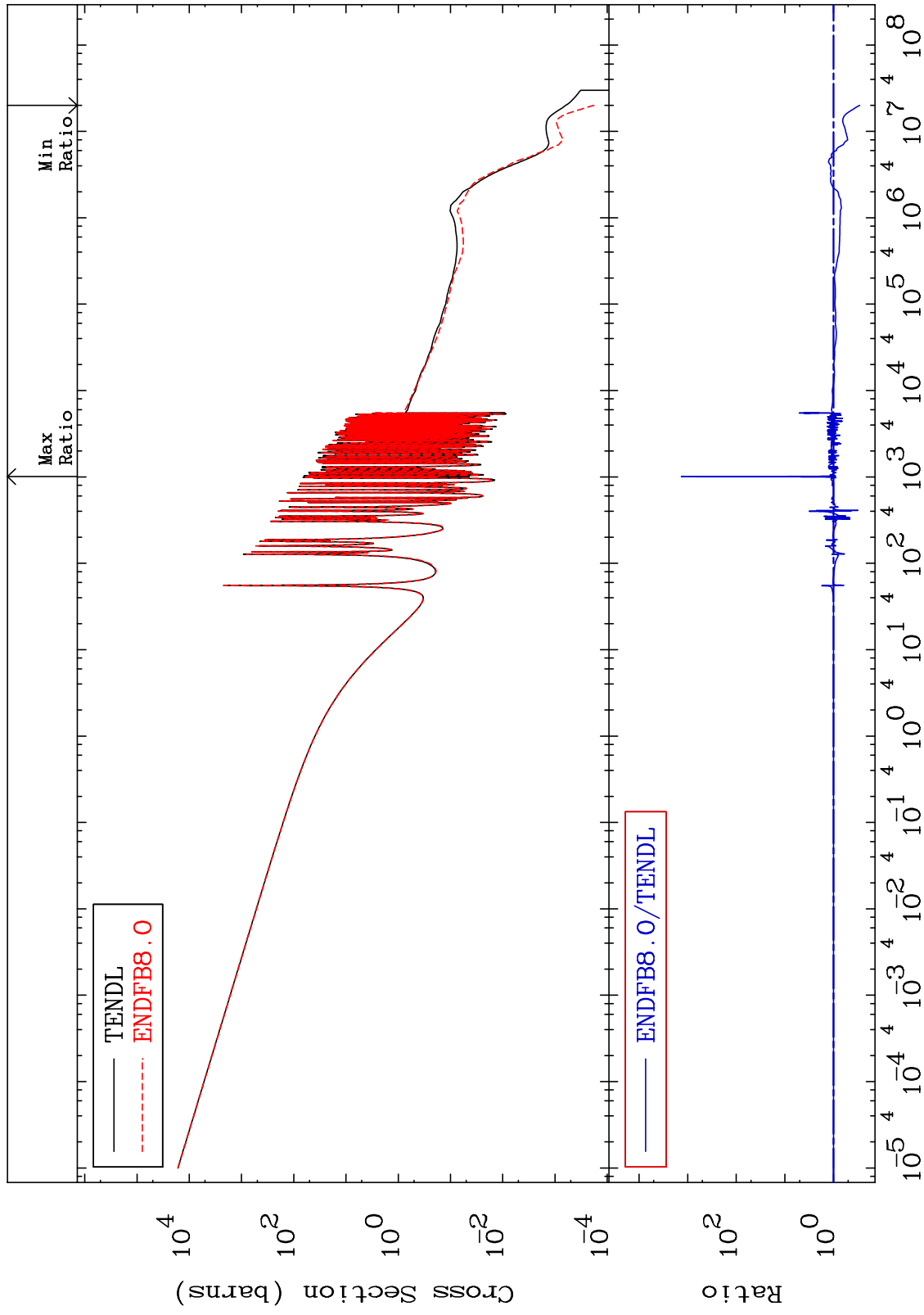


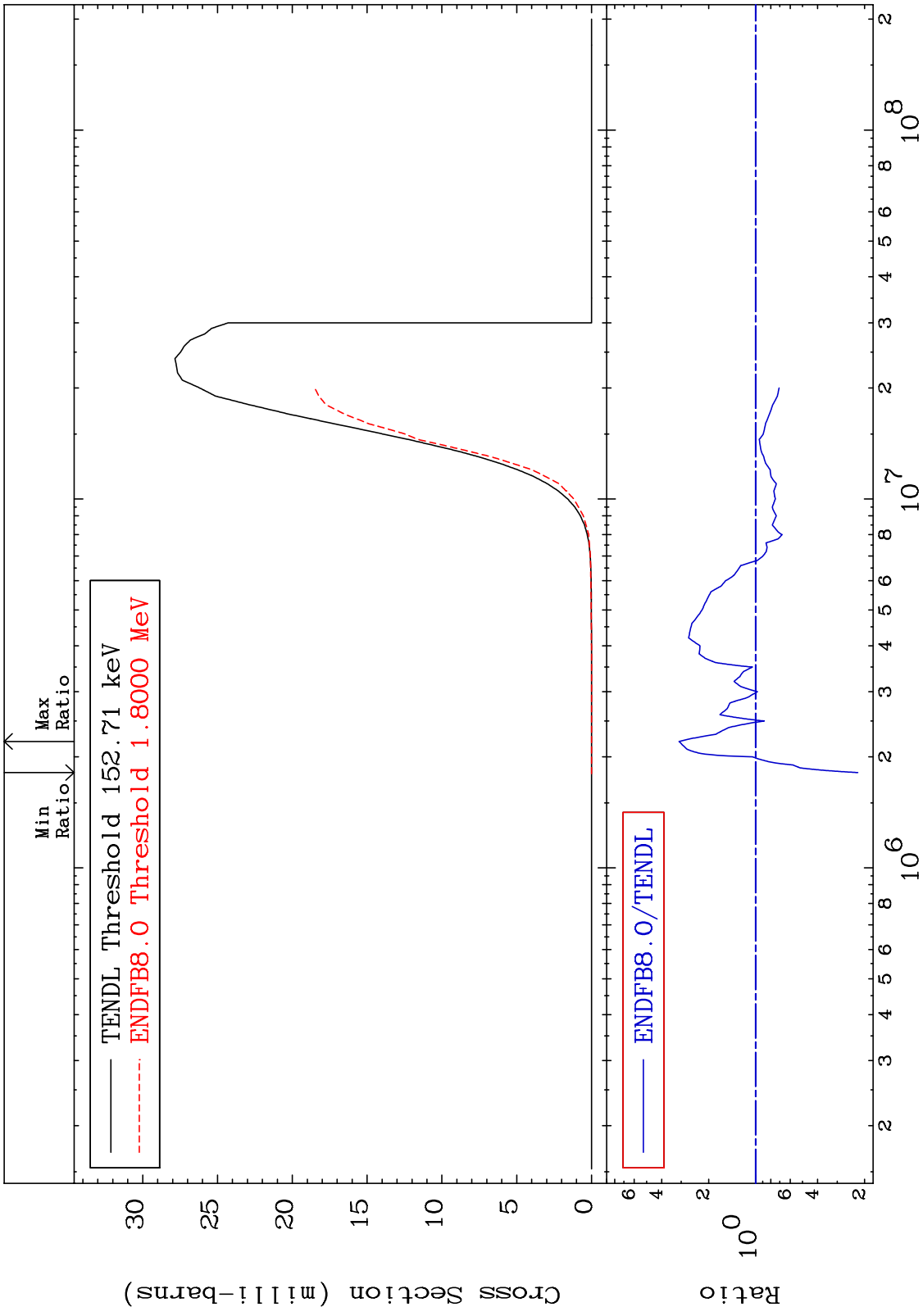
MAT 6028

(n, γ)

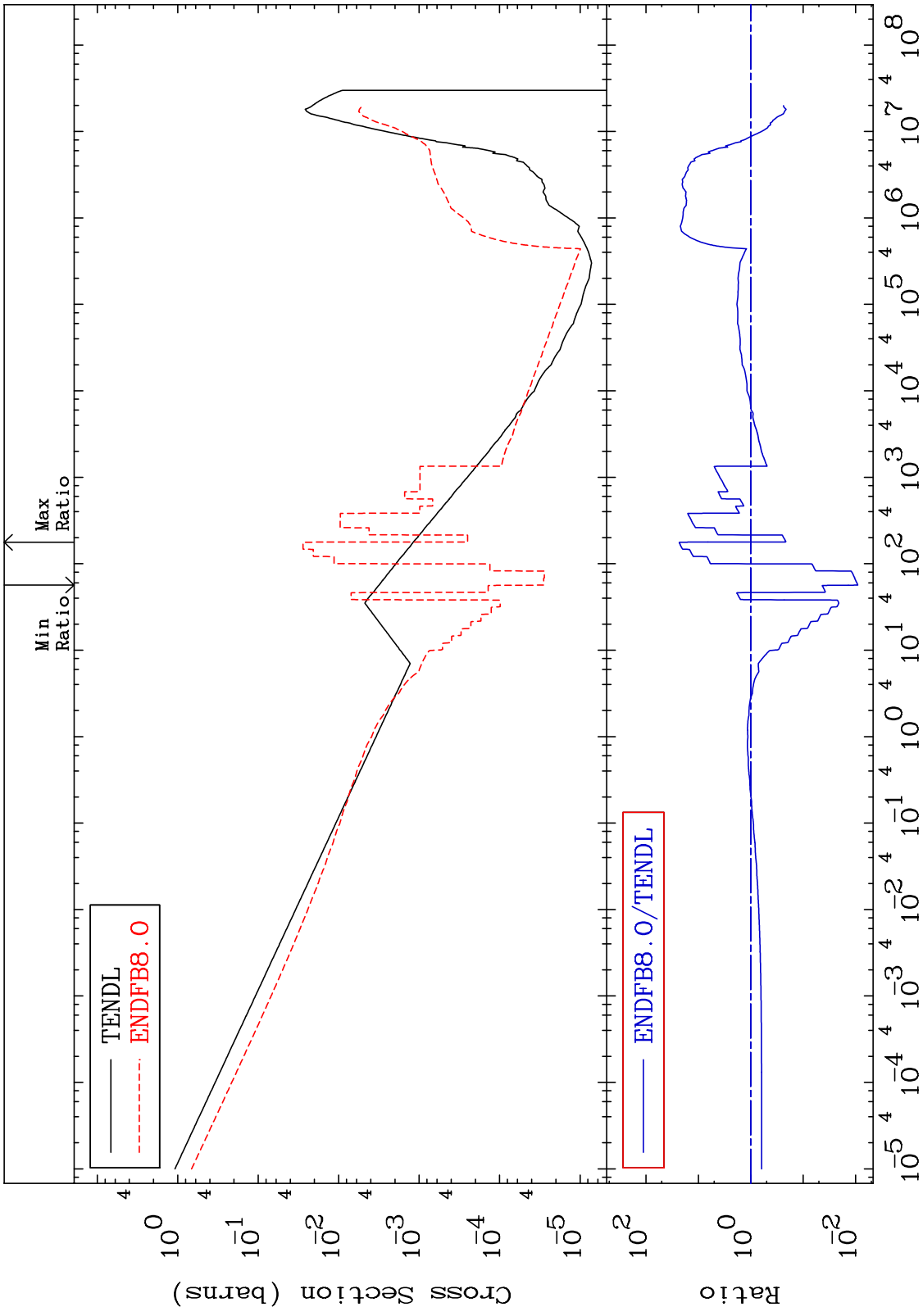
60-Nd-143

-70.99 To 9999. %





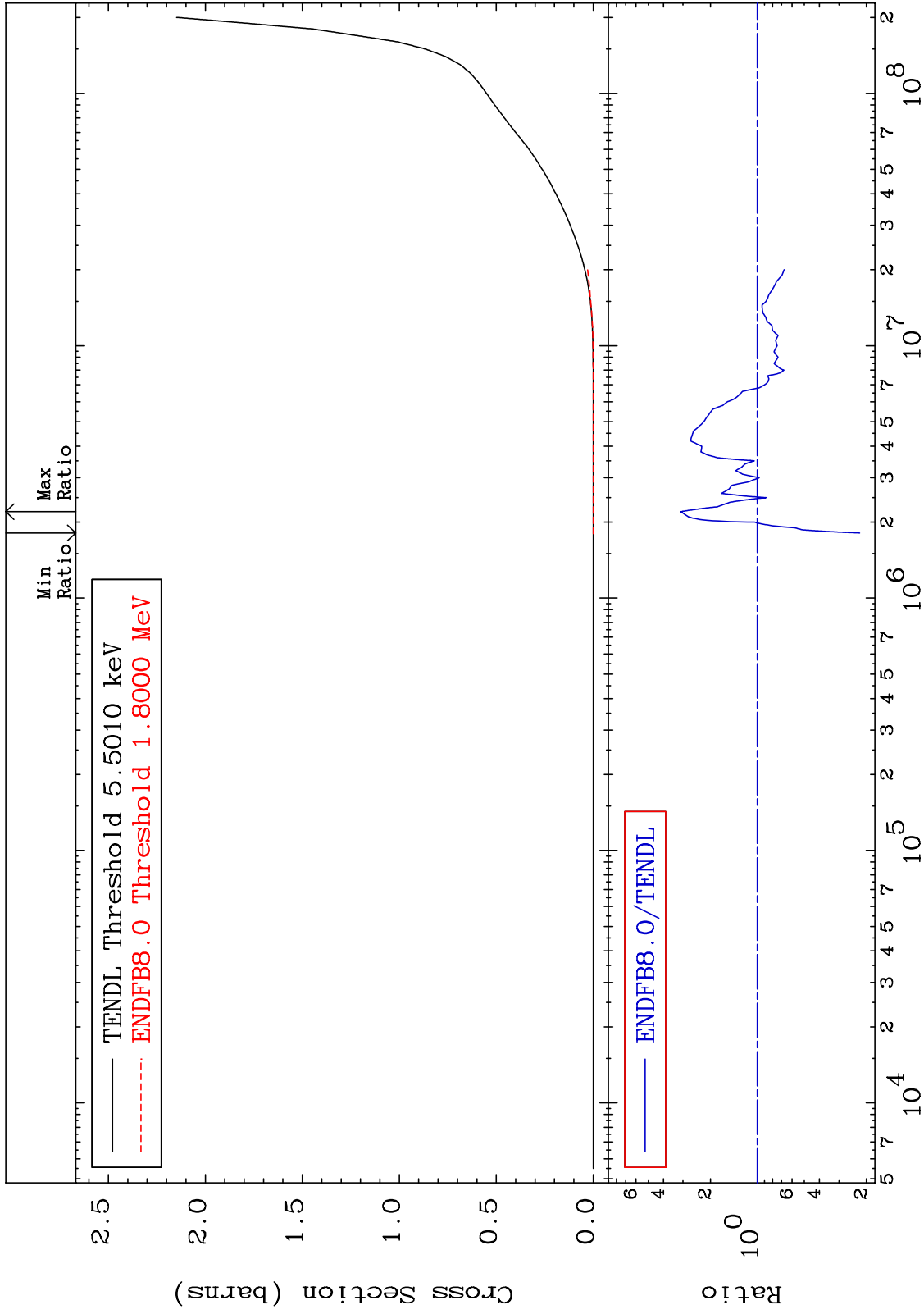
MAT 6028 $^{60}\text{Nd}-143$ (n, α) $^{60}\text{Nd}-143$
 -99.10 To 2236. %



MAT 6028

Hydrogen Production
Cross Section

60-Nd-143
-77.89 To 209.6 %



30

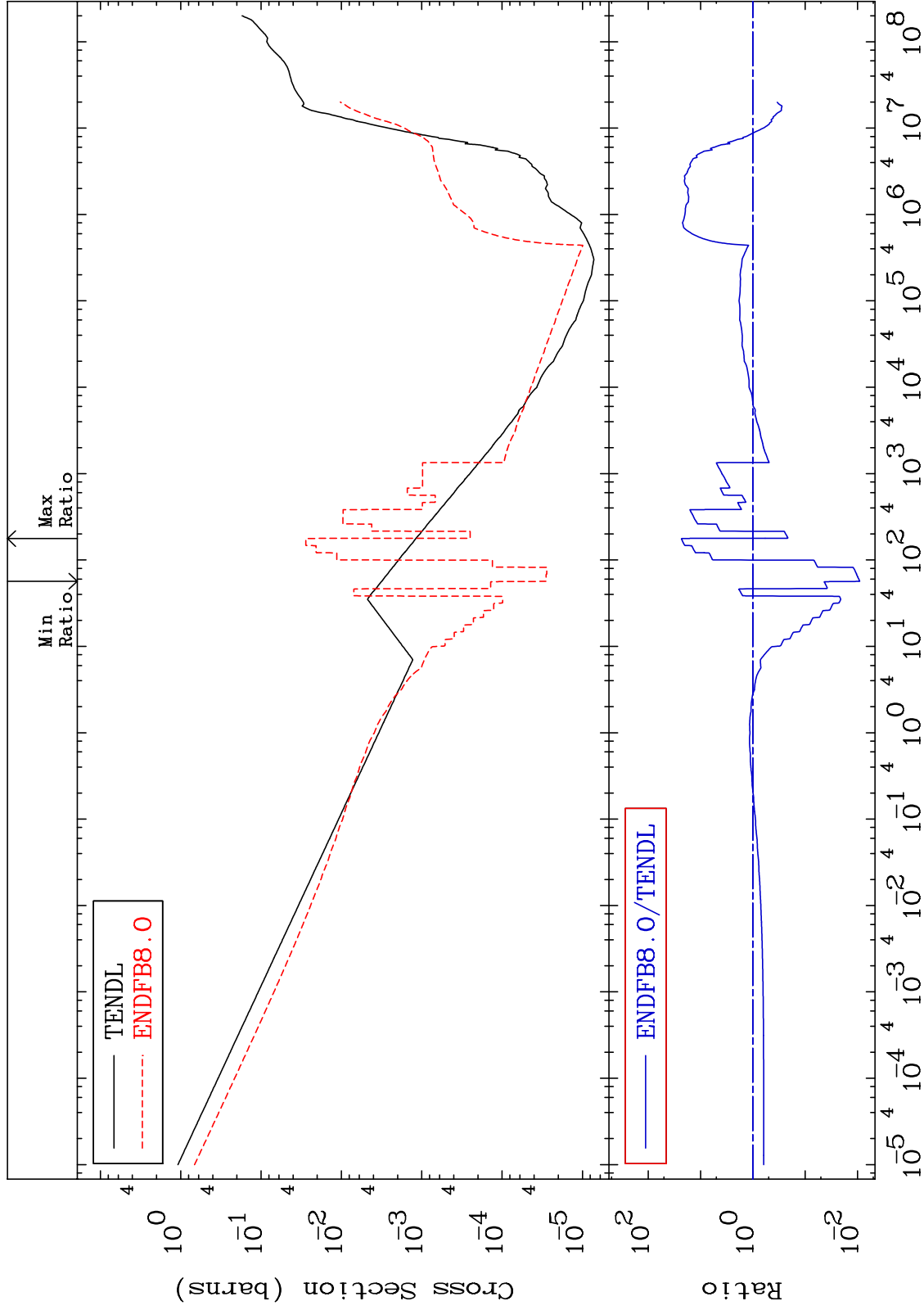
Incident Energy (eV)

60-Nd-143

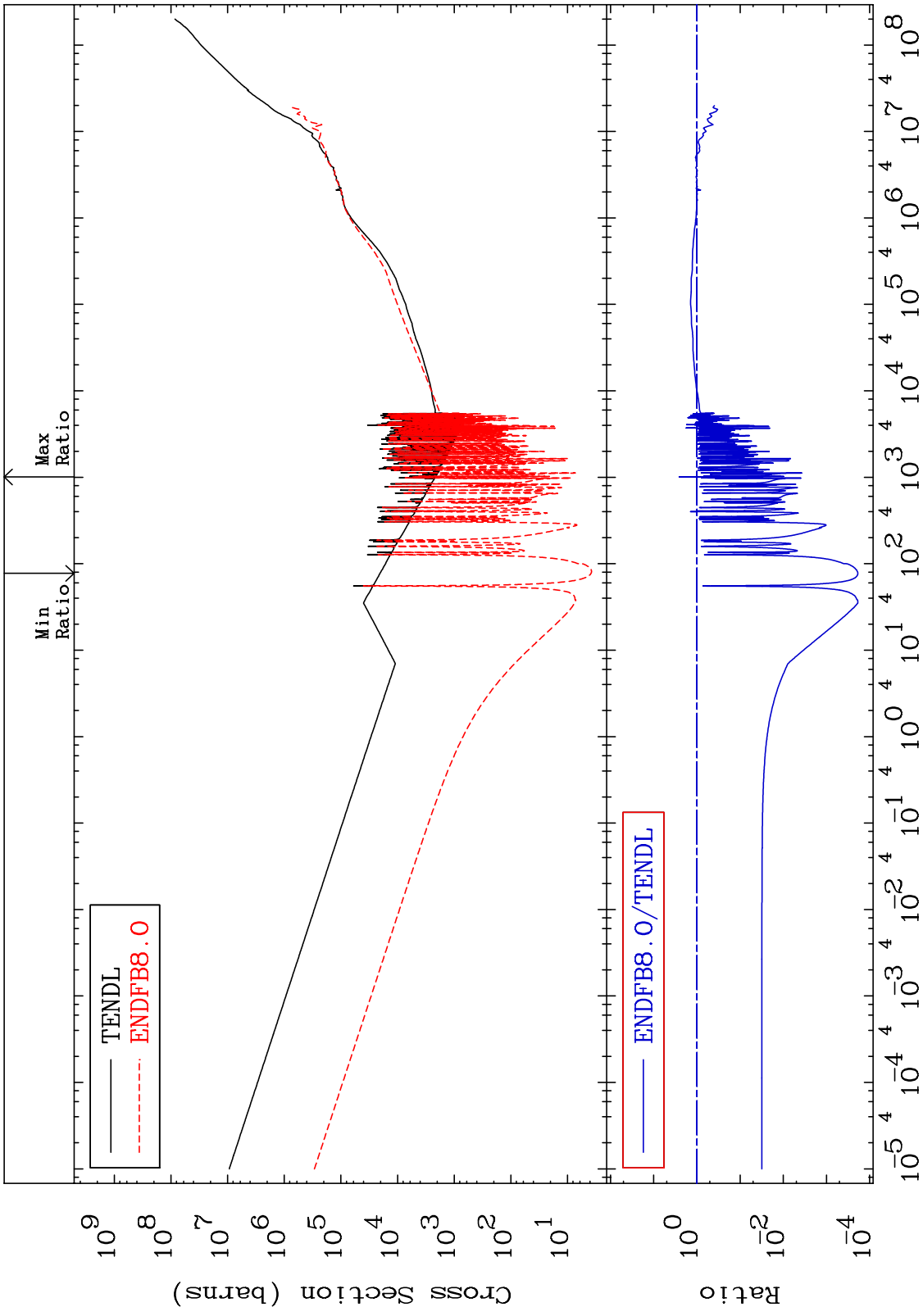
MAT 6028

He-4 Production
Cross Section

60-Nd-143
-99.10 To 2236. %



MAT 6028 Kerma total (eV-barns) 60-Nd-143
 -99.98 To 158.7 %

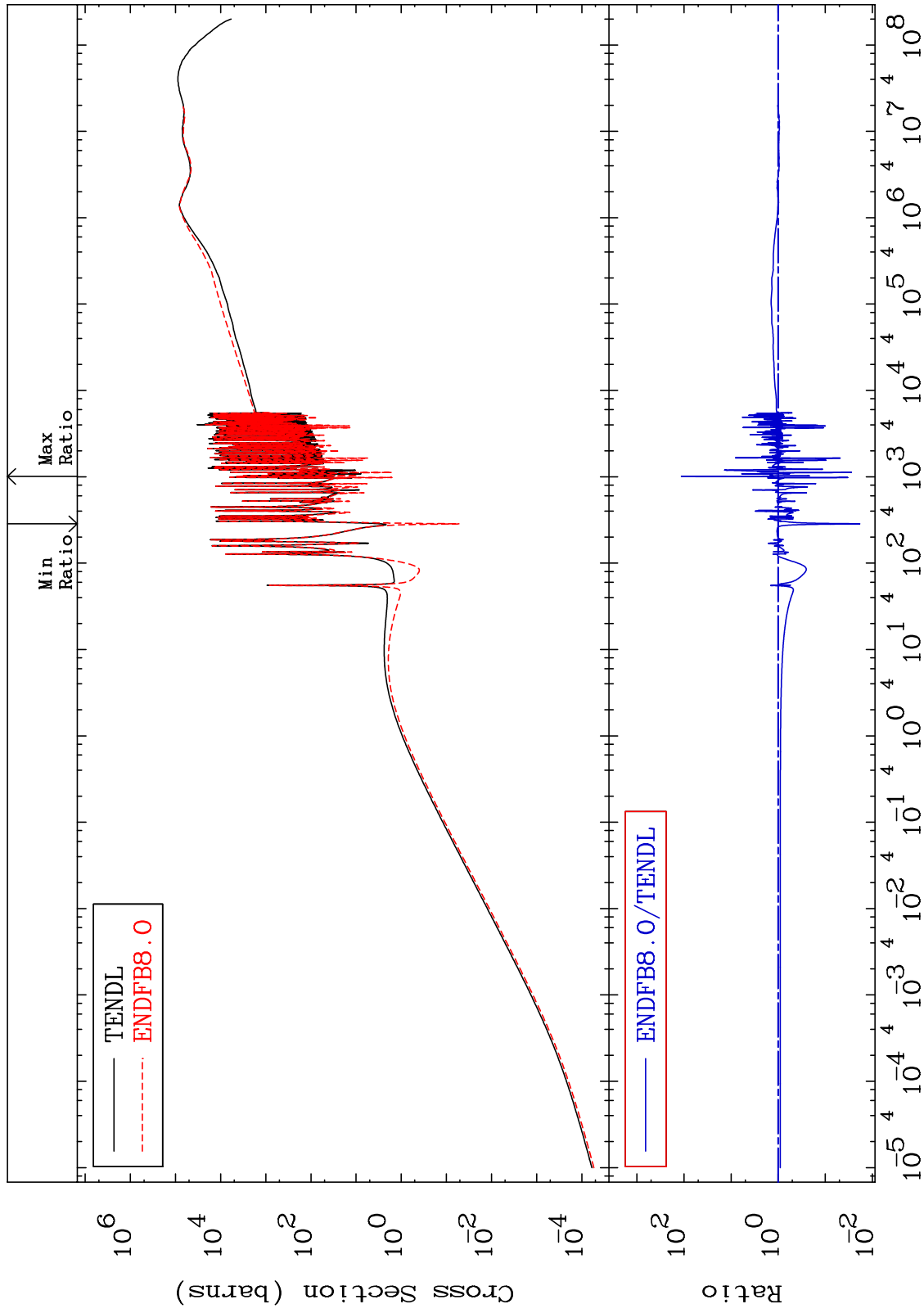


32 Incident Energy (eV) 60-Nd-143

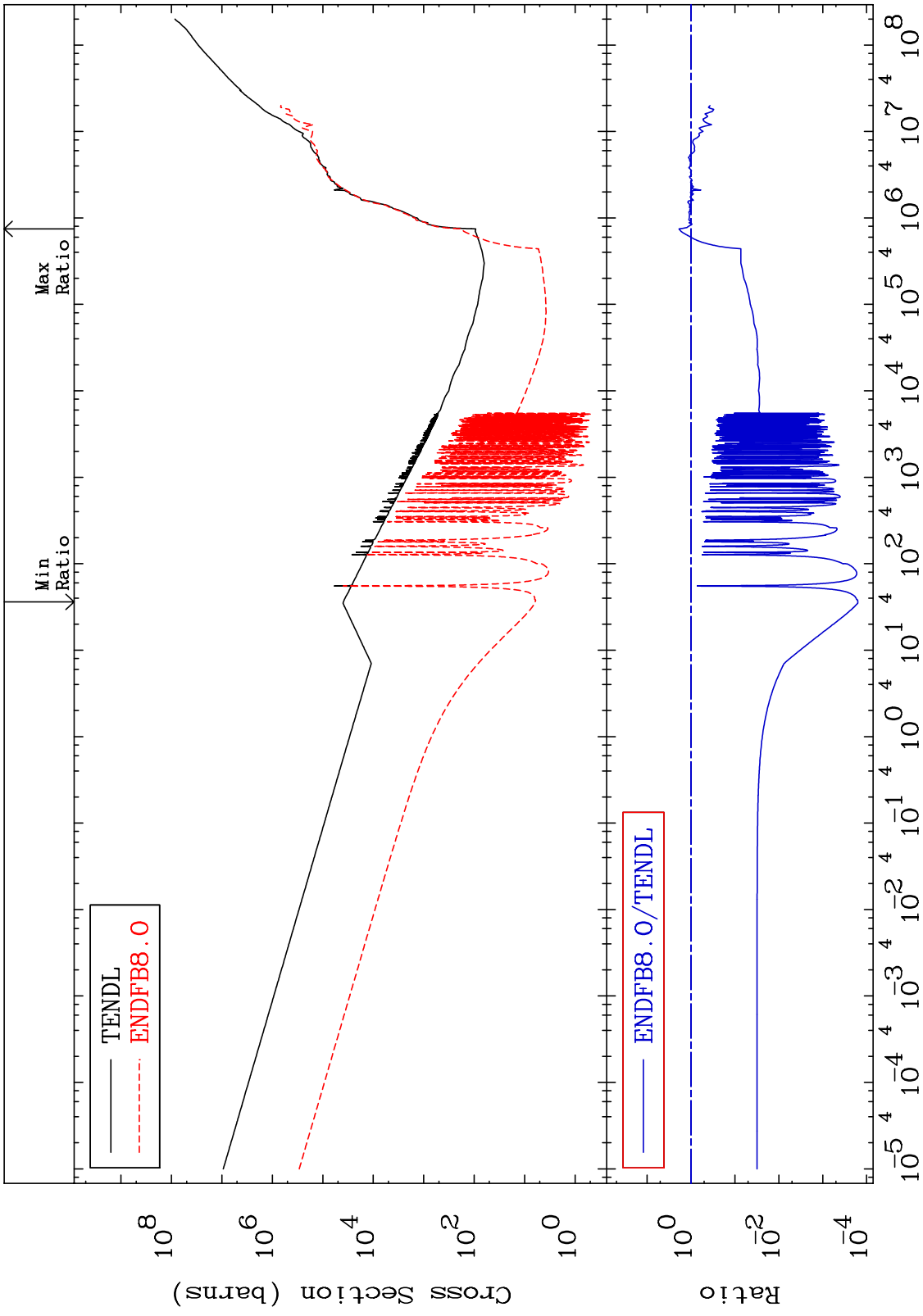
MAT 6028

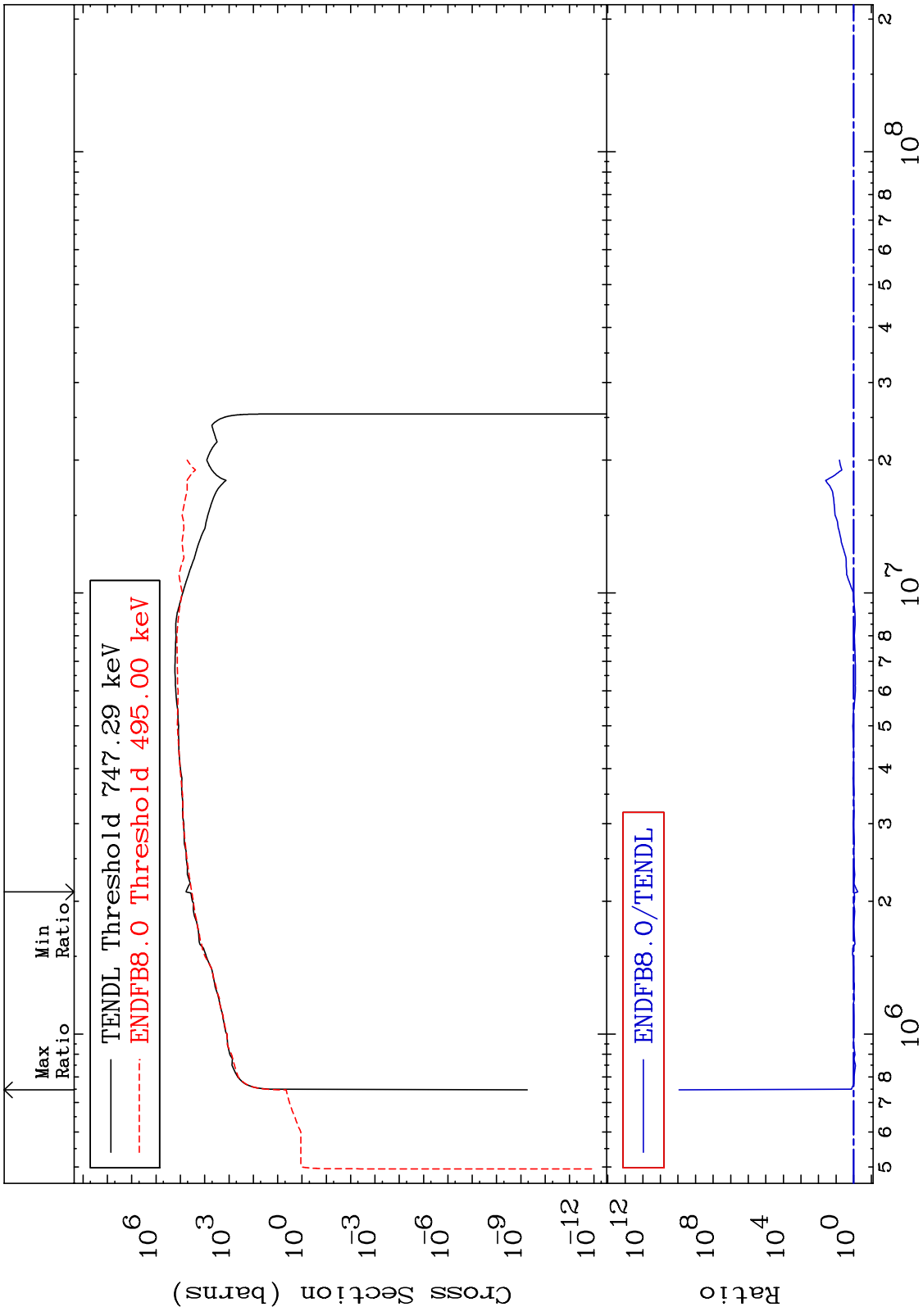
Kerma elastic
Cross Section

60-Nd-143
-98.15 To 9999. %



MAT 6028 Kerma non-elastic (all but mt2) 60-Nd-143
 Cross Section -99.98 To 86.94 %

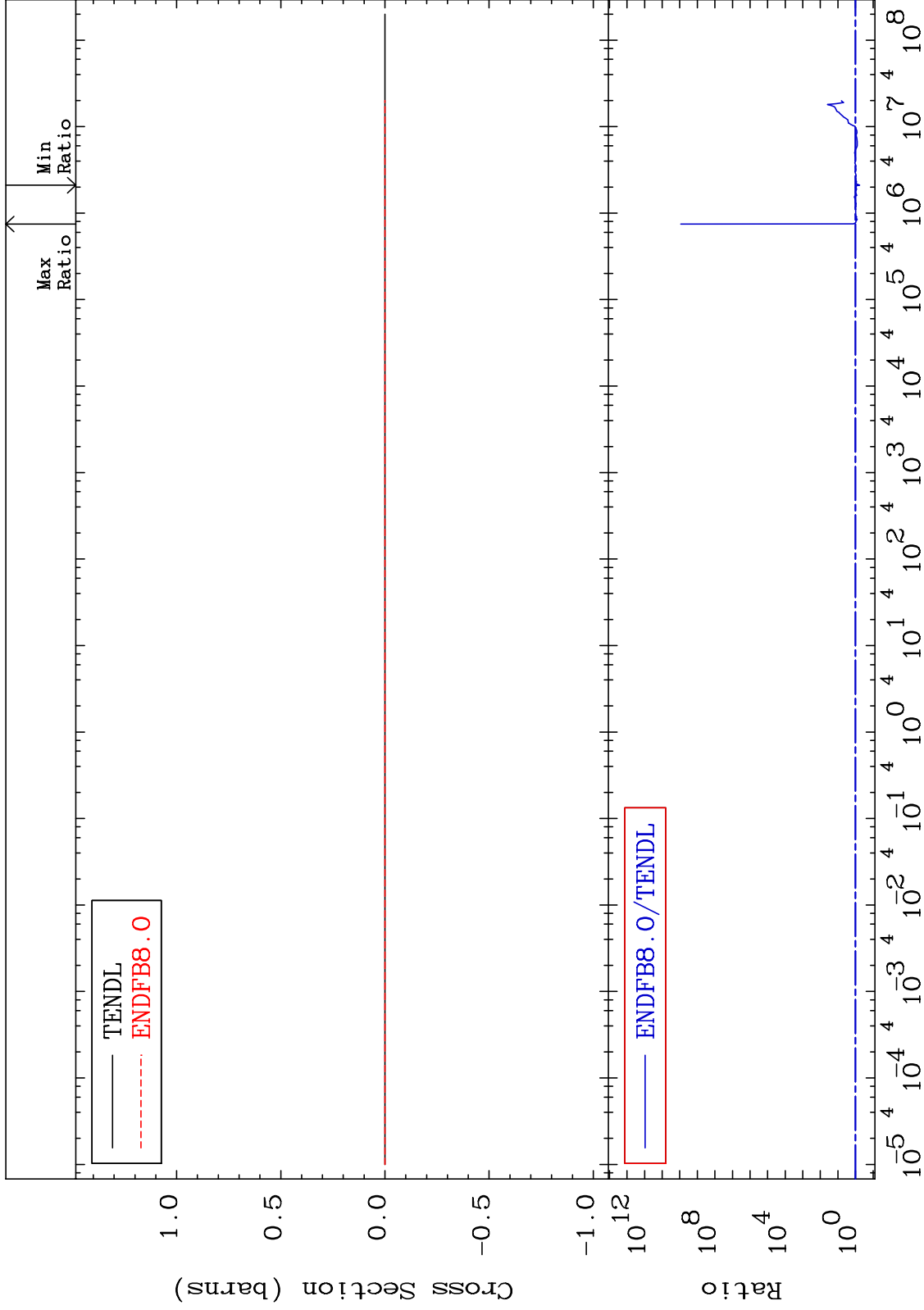




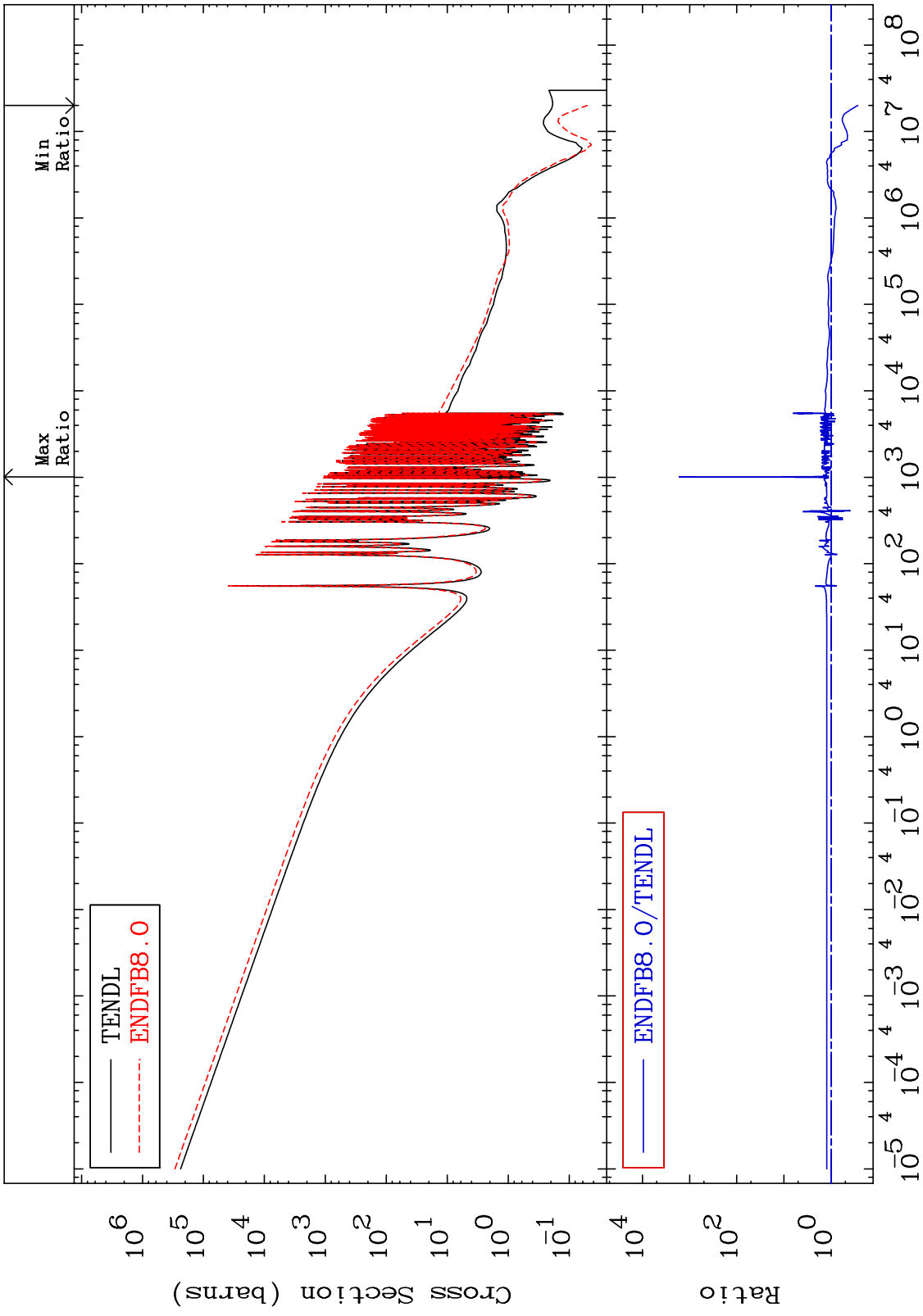
MAT 6028

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

60-Nd-143
-42.09 To 9999. %

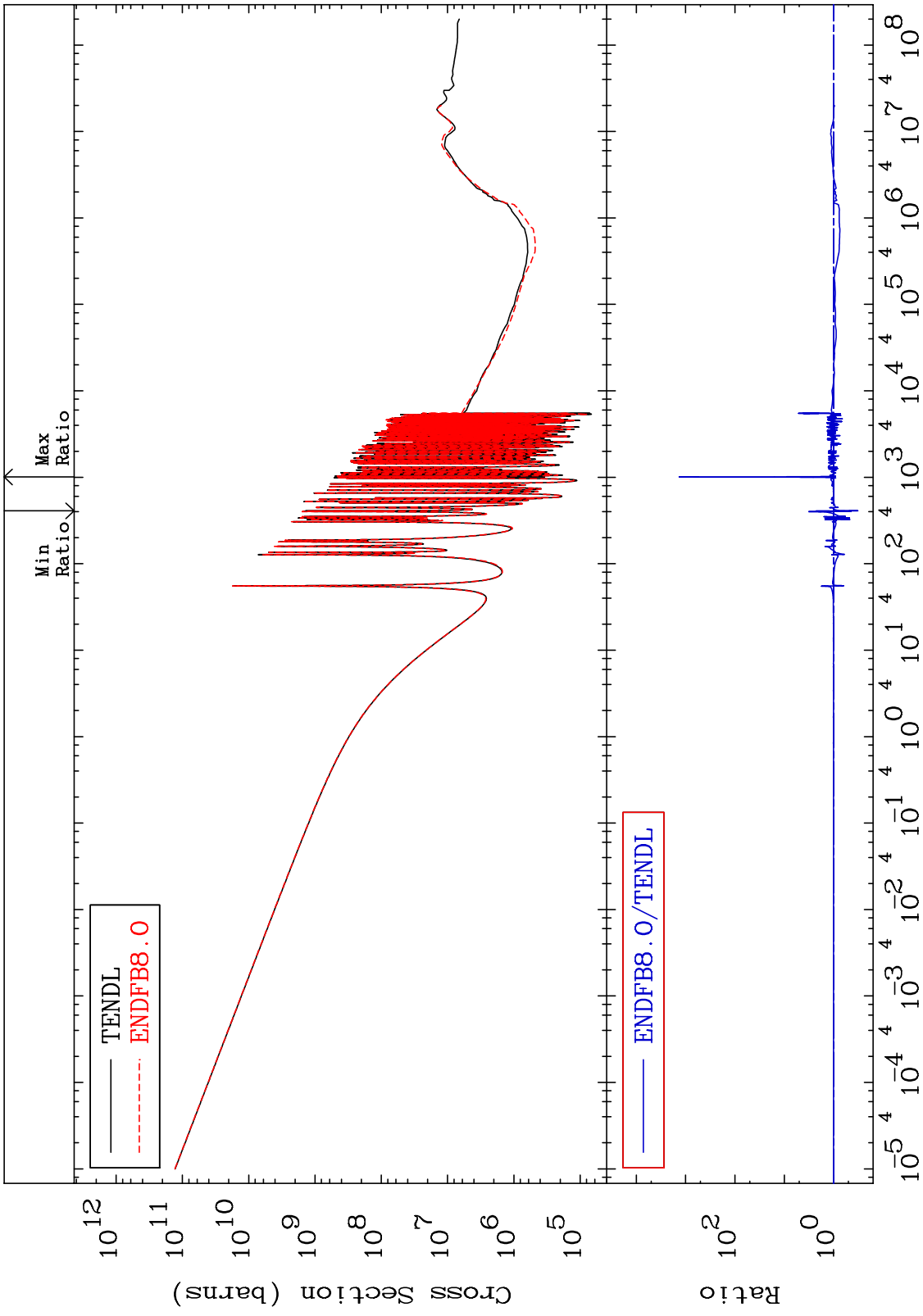


MAT 6028 Kerma capture (mt102) 60-Nd-143
 Cross Section -72.94 To 9999. %

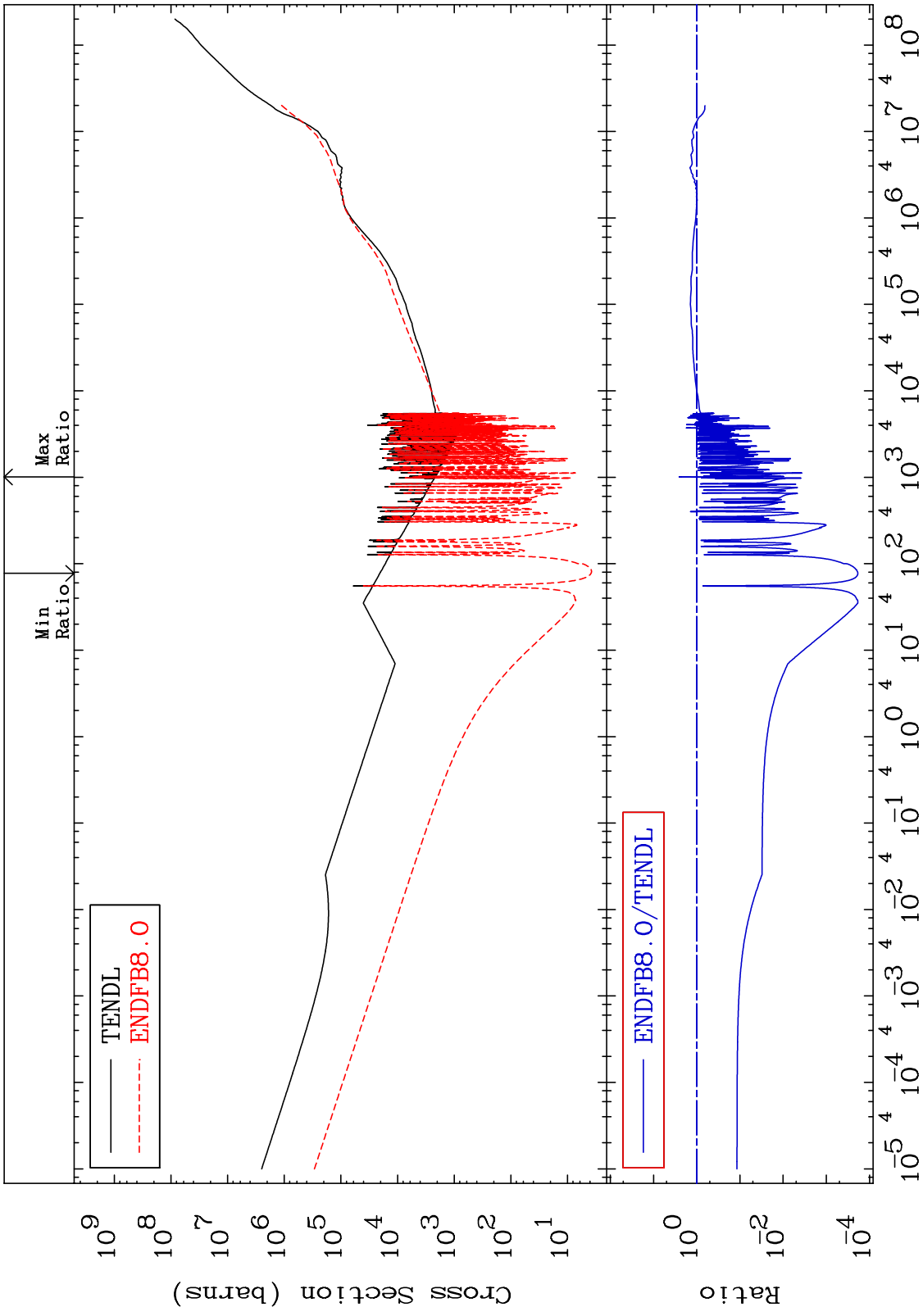


37 Incident Energy (eV) 60-Nd-143

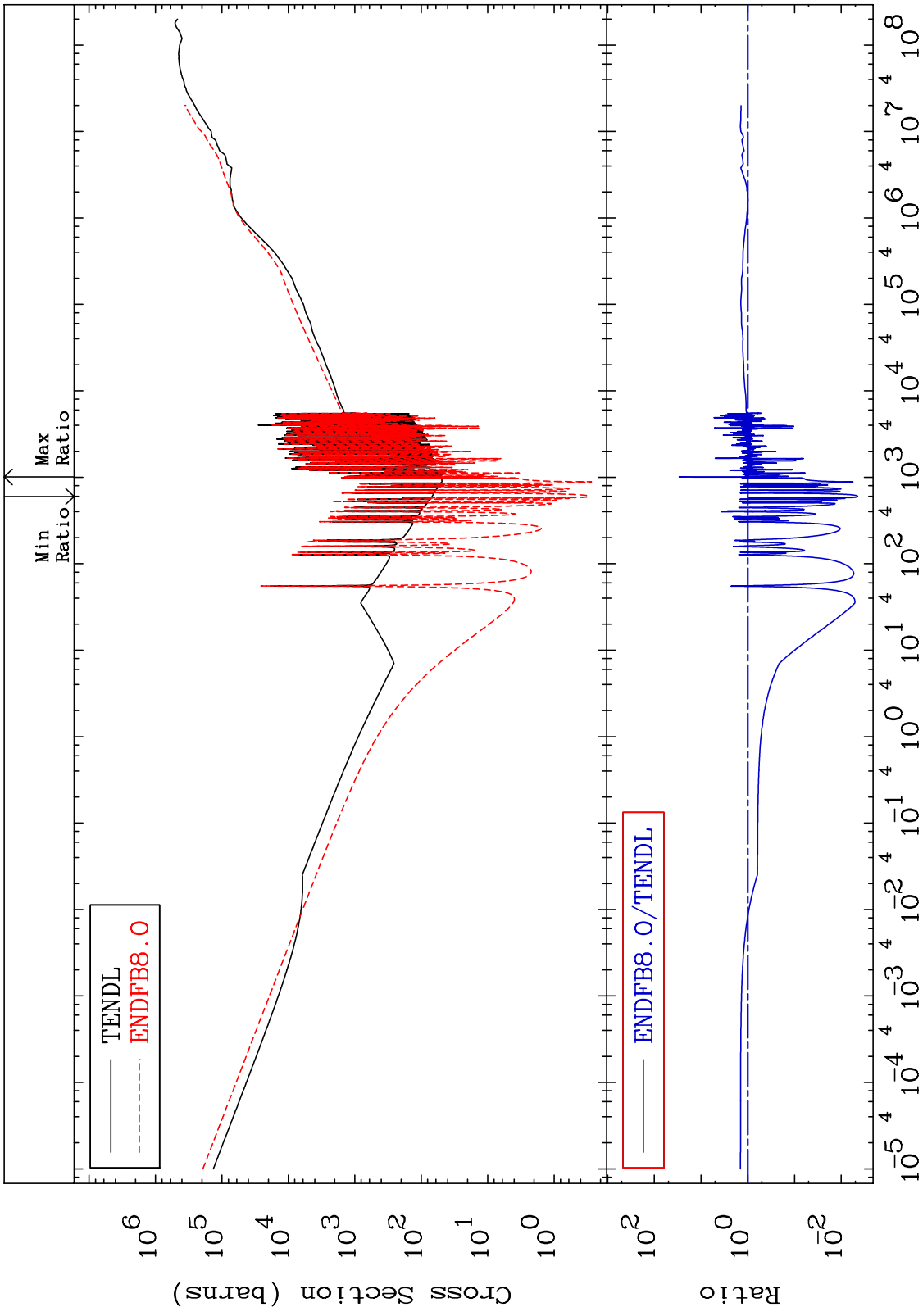
MAT 6028 Total photon (eV-barns) Cross Section 60-Nd-143
-67.78 To 9999. %



MAT 6028 Total kinematic kerma (high limit) 60-Nd-143
 -99.98 To 156.6 %
 Cross Section

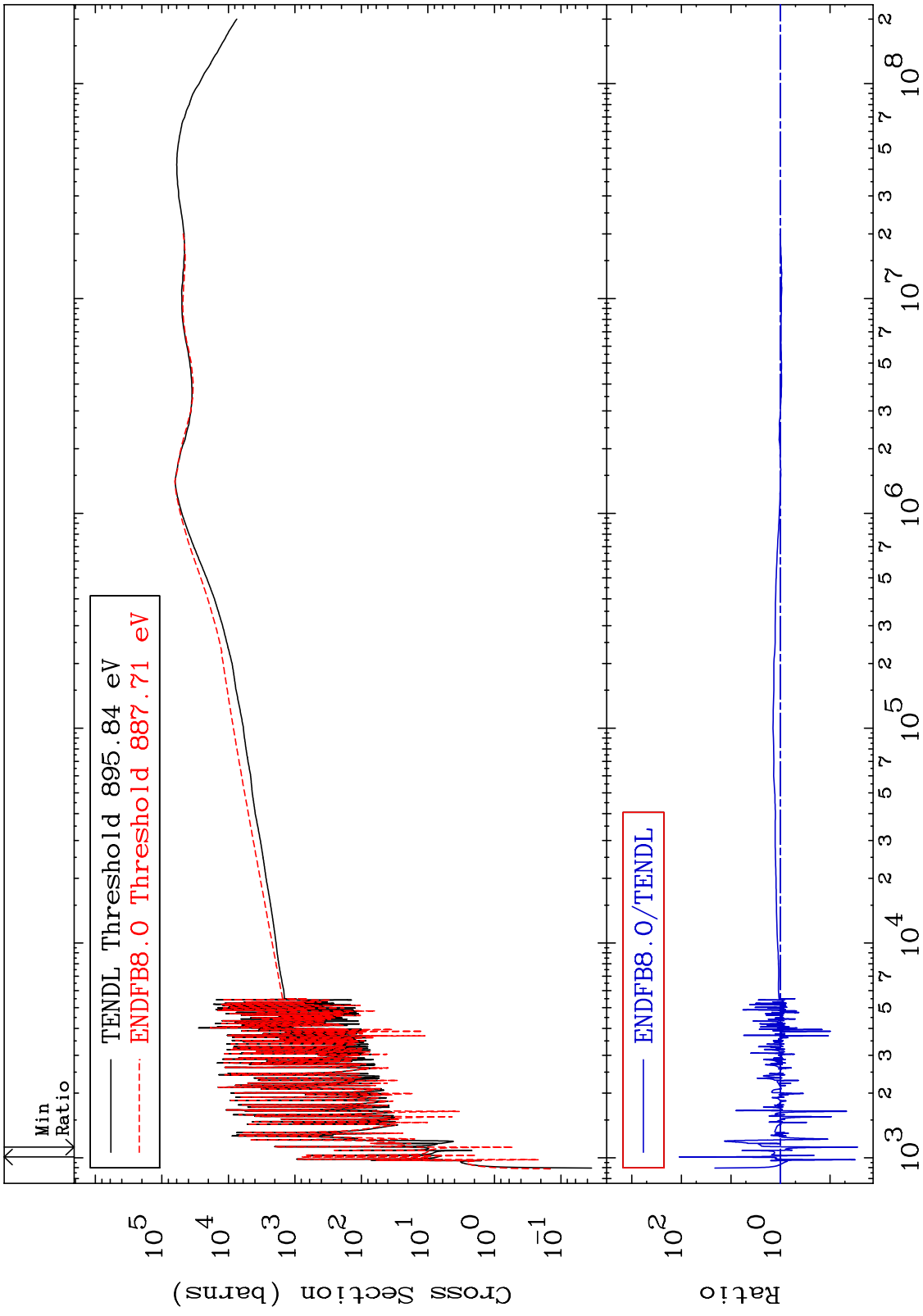


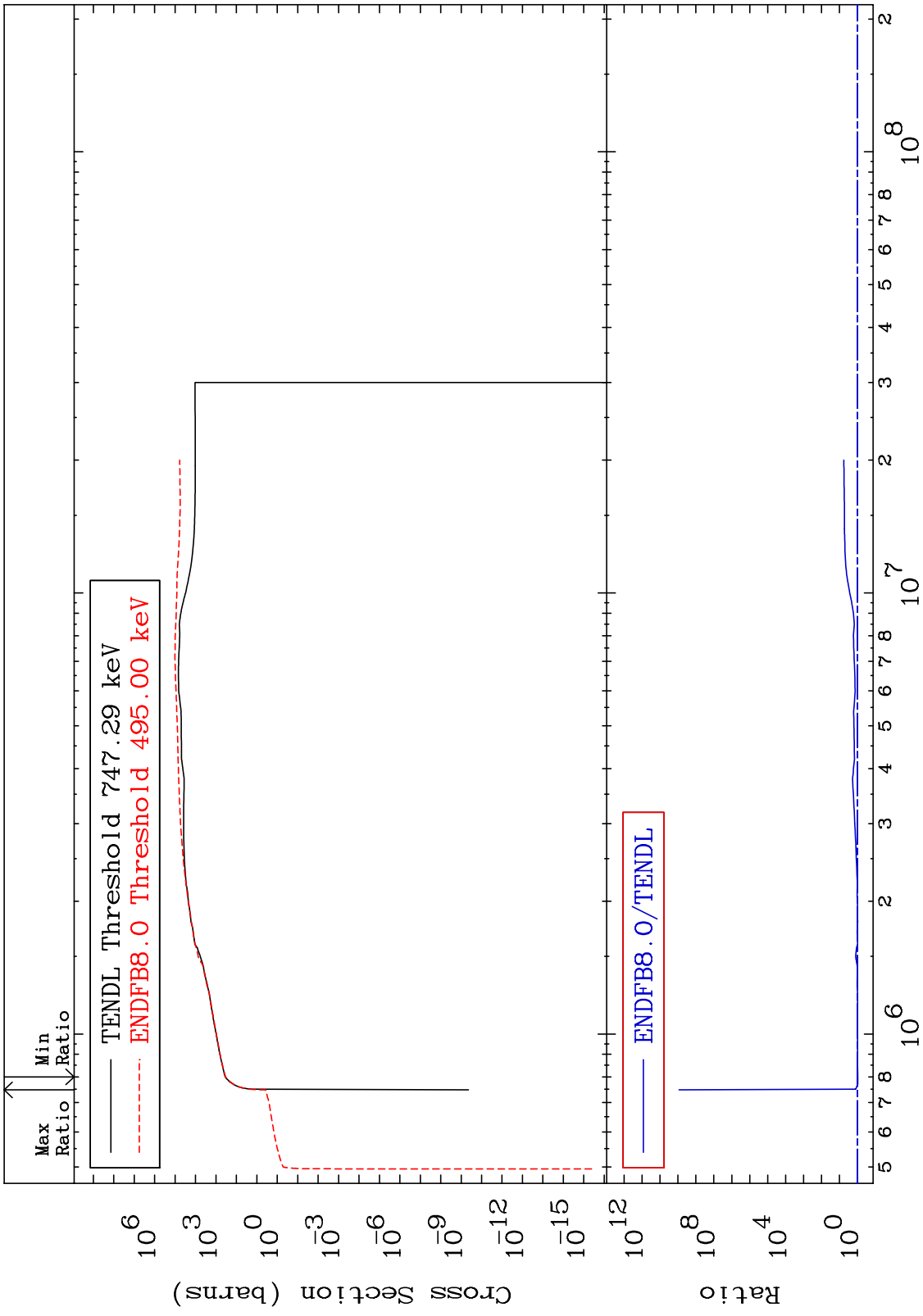
MAT 6028 Dpa total (eV-barns) 60-Nd-143
Cross Section -99.56 To 2859. %



40 Incident Energy (eV) 60-Nd-143

MAT 6028 Dpa elastic (mt2) 60-Nd-143
Cross Section -97.25 To 9999. %





MAT 6028 Dpa disappearance (mt102 -120) 60-Nd-143
 Cross Section -99.57 To 1498. %

