

Program Complot
(Version 2018-1)

by

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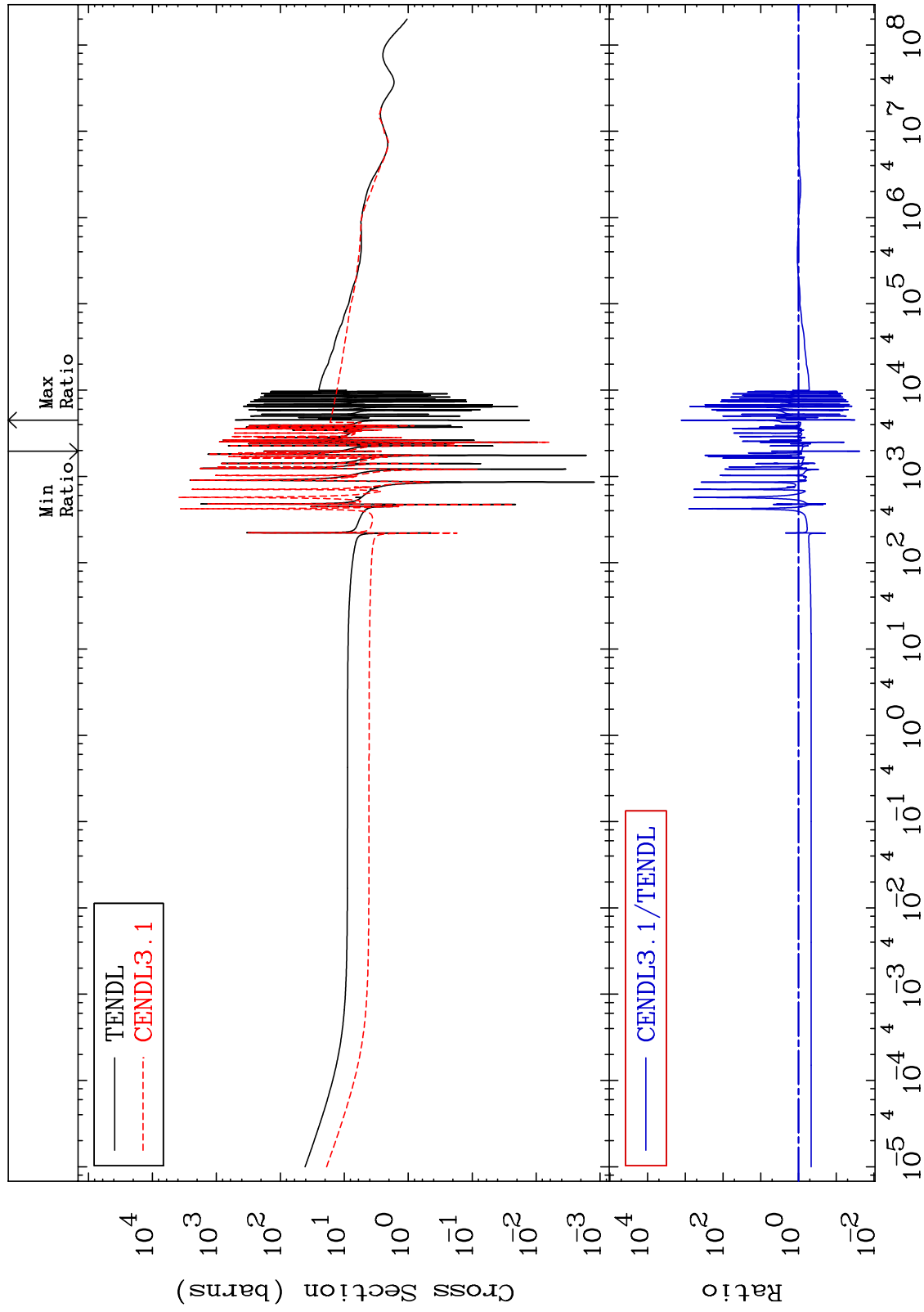
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6449

Elastic
Cross Section

64-Gd-160
-97.64 To 9999. %

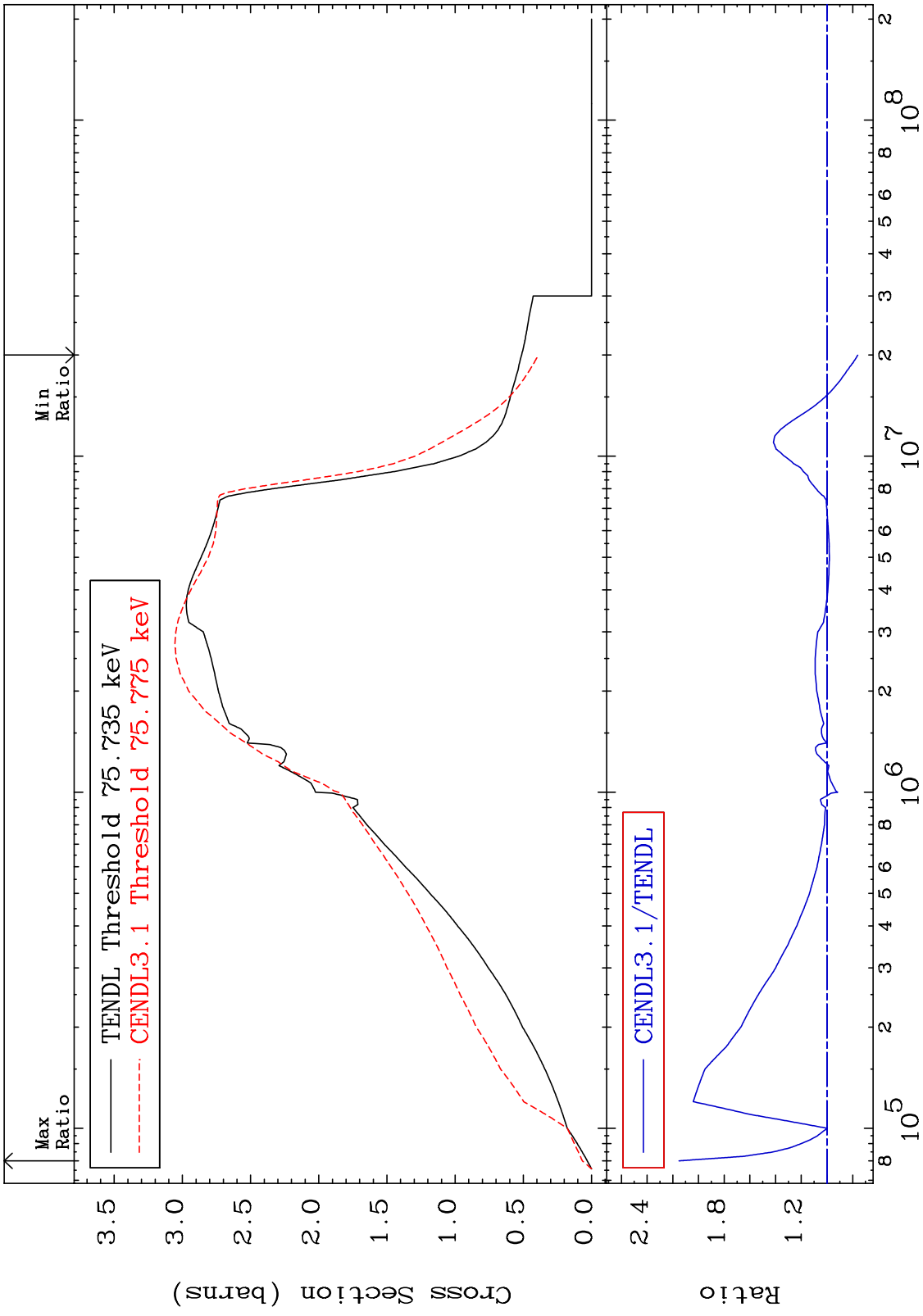


2

Incident Energy (eV)

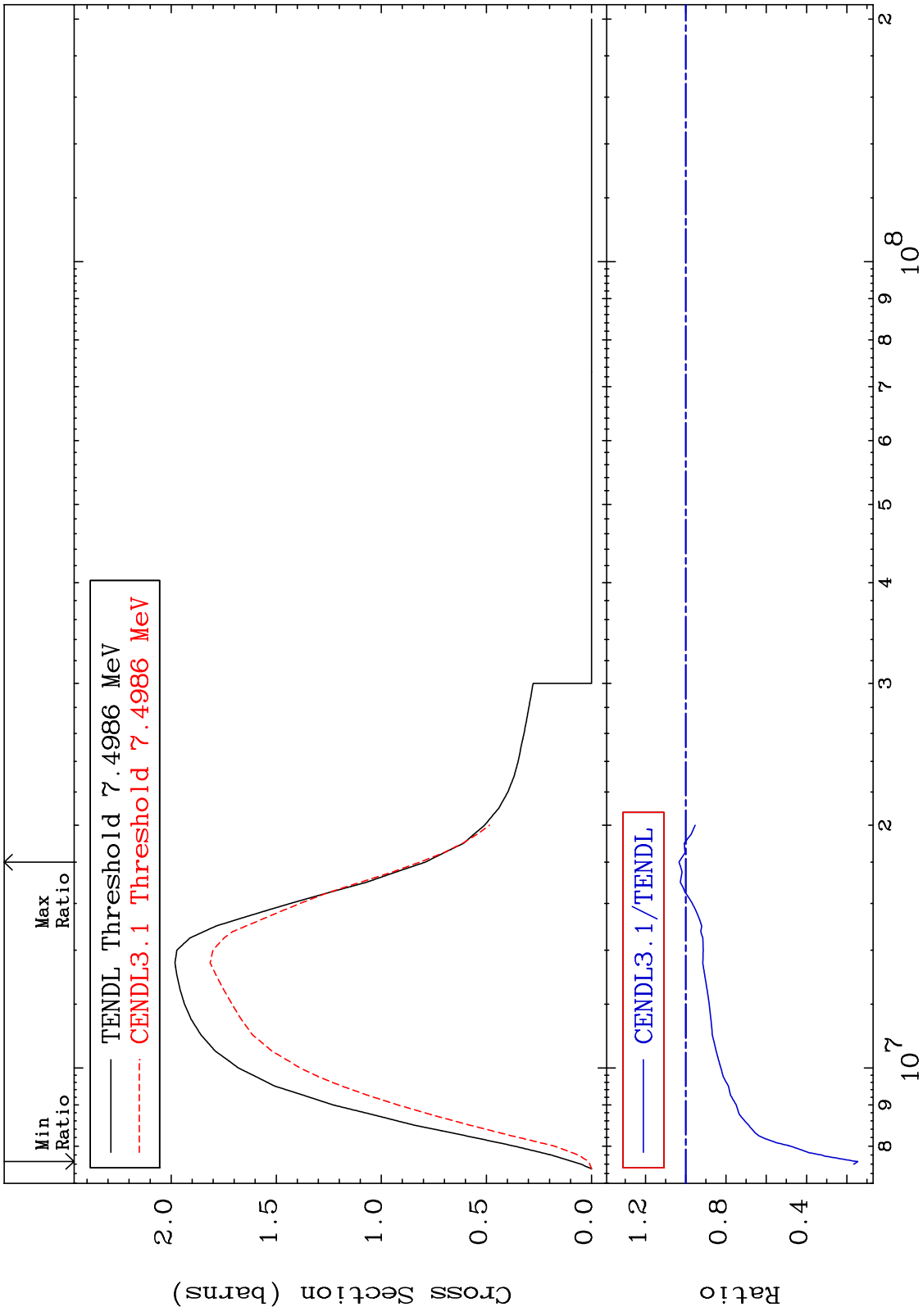
64-Gd-160

MAT 6449 Inelastic Cross Section 64-Gd-160 -24.02 To 115.1 %



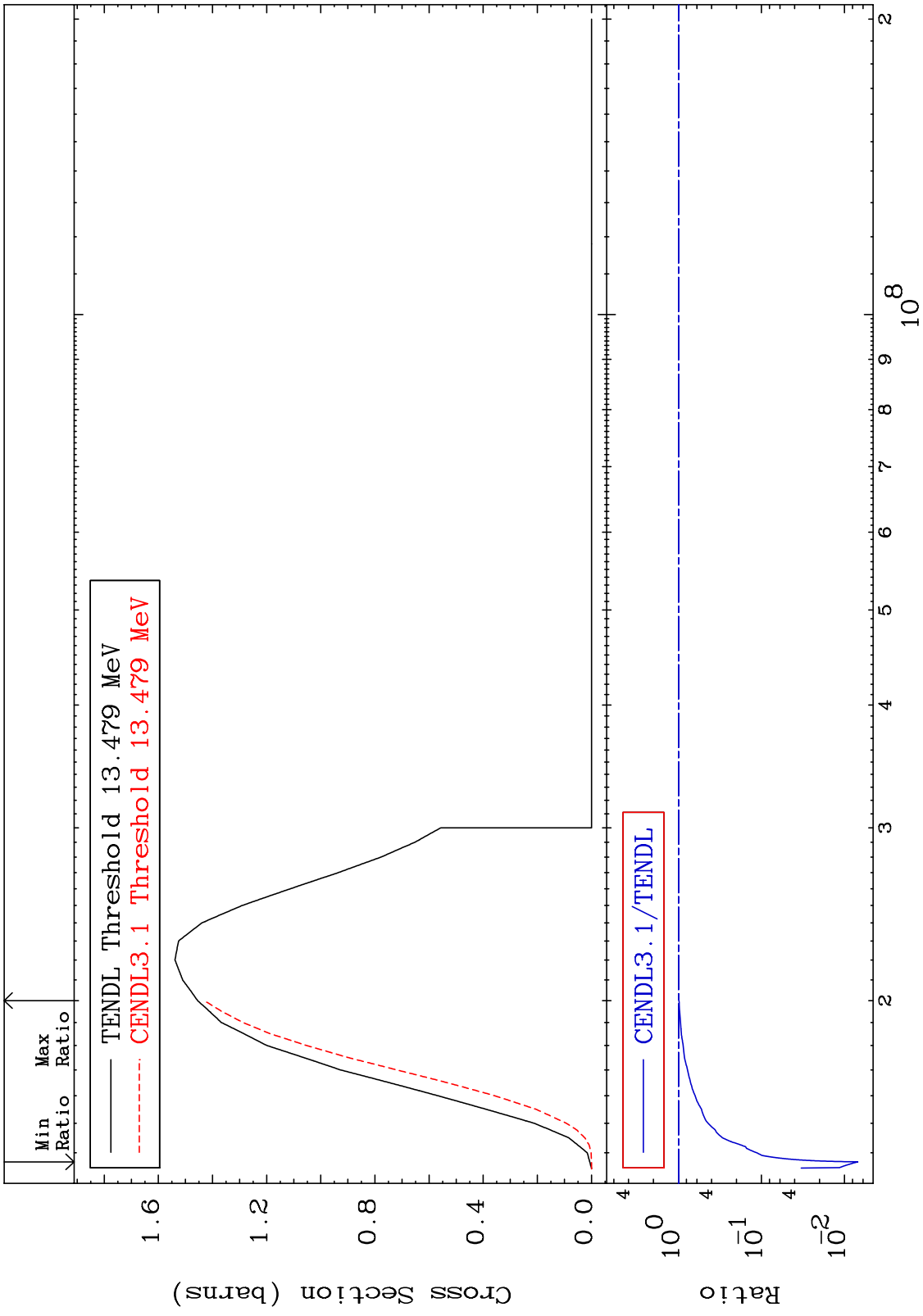
3 64-Gd-160

MAT 6449 (n,2n) Cross Section 64-Gd-160 -85.48 To 3.308 %



4 64-Gd-160

MAT 6449 64-Gd-160
-99.31 To -1.674%
 (n,3n)
 Cross Section



MAT 6449

(n, n') α

64-Gd-160

150.9 To 911.5 %

Cross Section

Max Ratio

Min Ratio

TENDL Threshold 1.0126 MeV
CENDL3.1 Threshold 11.500 MeV

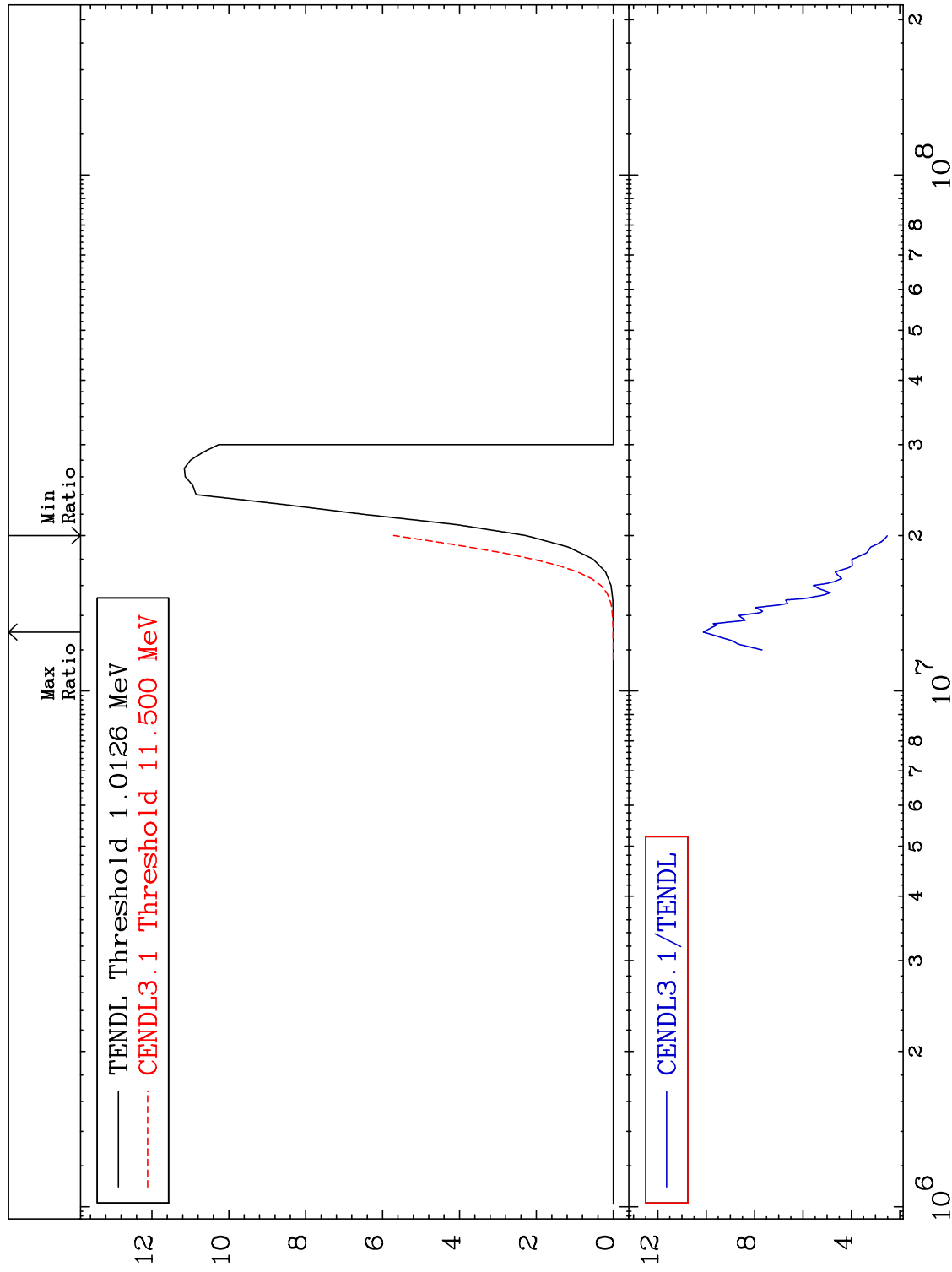
Cross Section (milli-barns)

CENDL3.1/TENDL

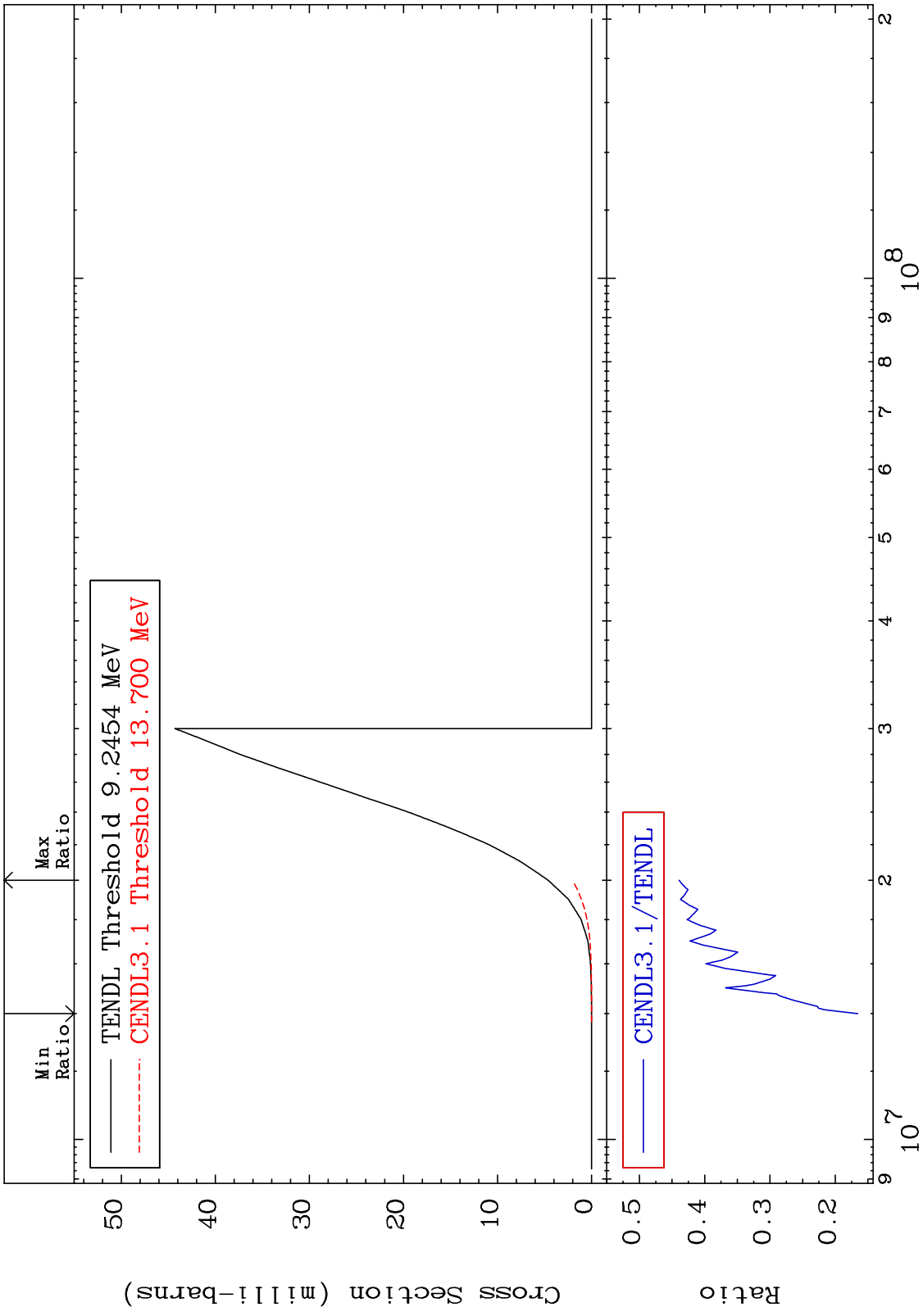
Ratio

Incident Energy (eV)

64-Gd-160

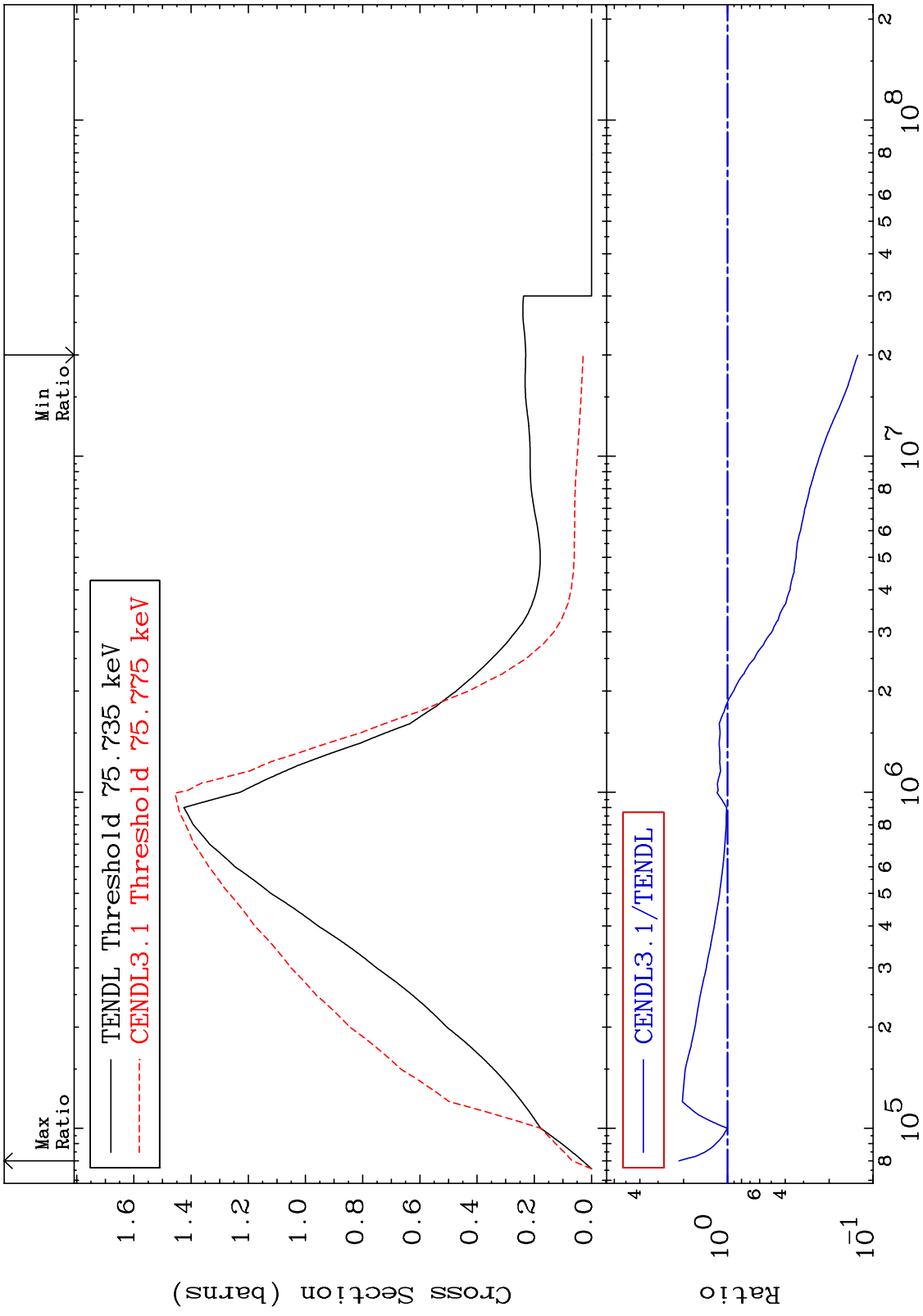


MAT 6449 64-Gd-160
 (n, n') p -83.46 To -56.07%
 Cross Section



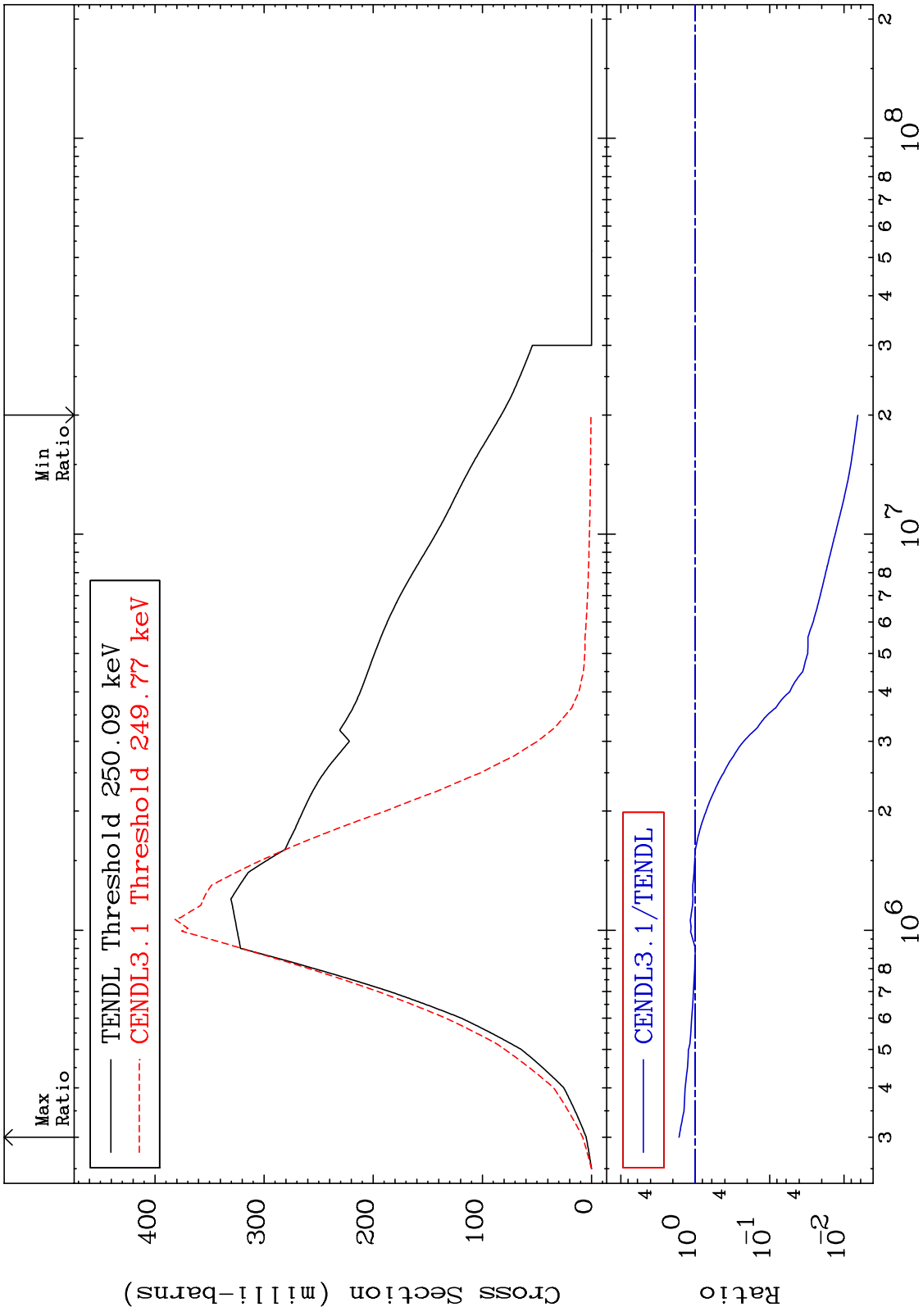
Incident Energy (eV) 64-Gd-160

MAT 6449 MT= 51 (n,n') Level 64-Gd-160
 Cross Section -87.31 To 115.1 %

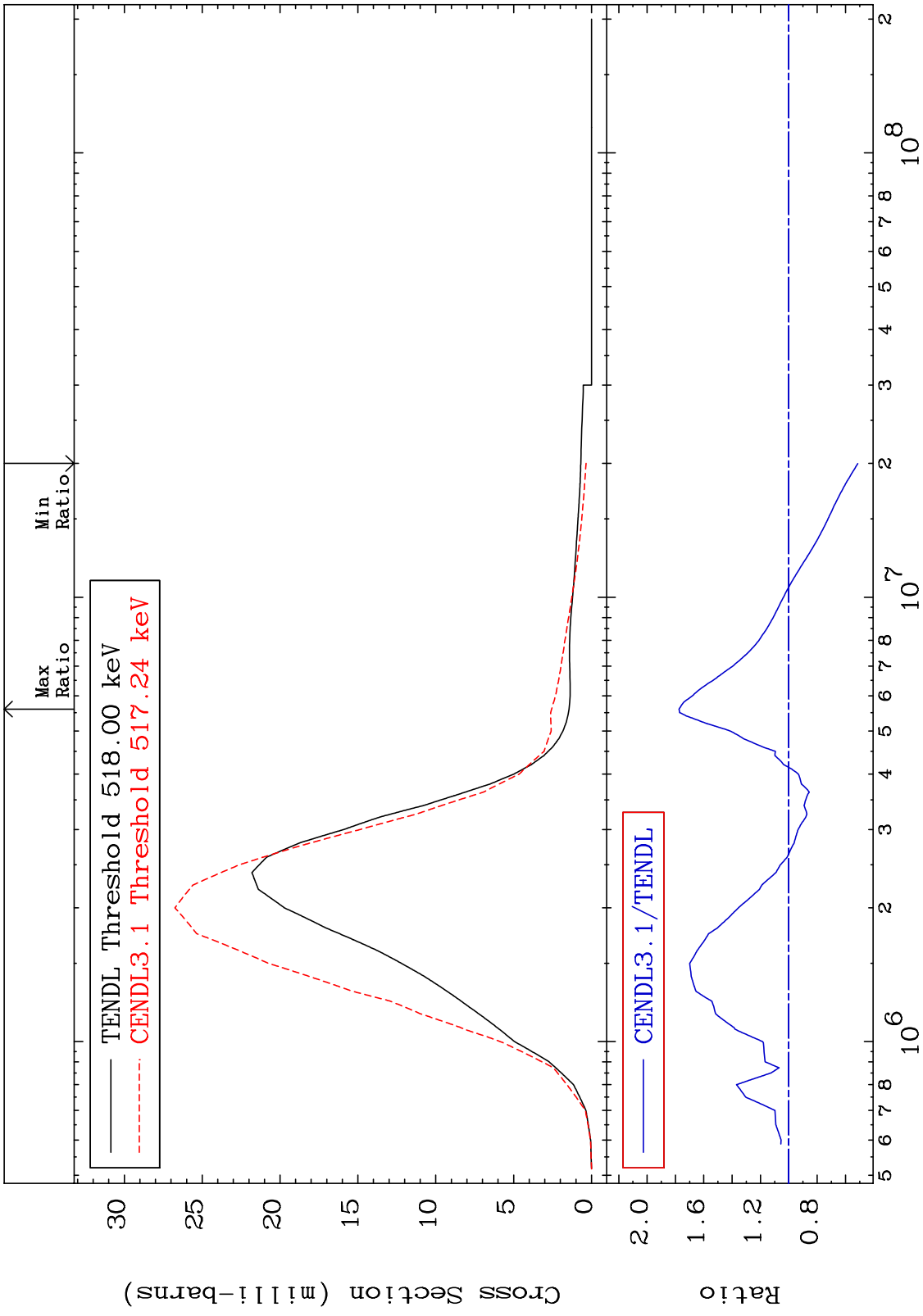


8 8 64-Gd-160

MAT 6449 MT= 52 (n,n') Level Cross Section 64-Gd-160
 -99.35 To 65.15 %

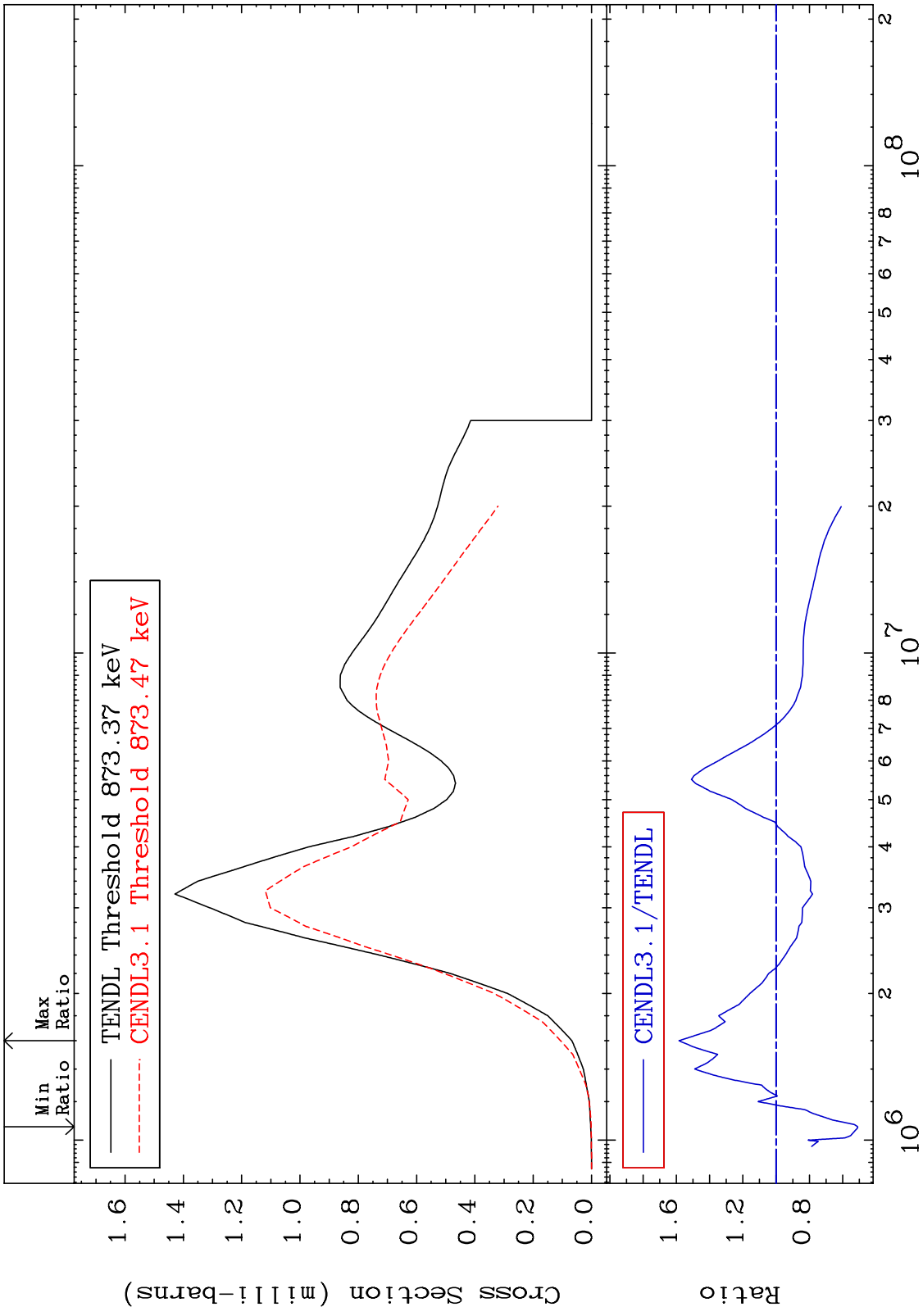


MAT 6449 MT= 53 (n,n') Level 64-Gd-160
 Cross Section -48.71 To 77.46 %

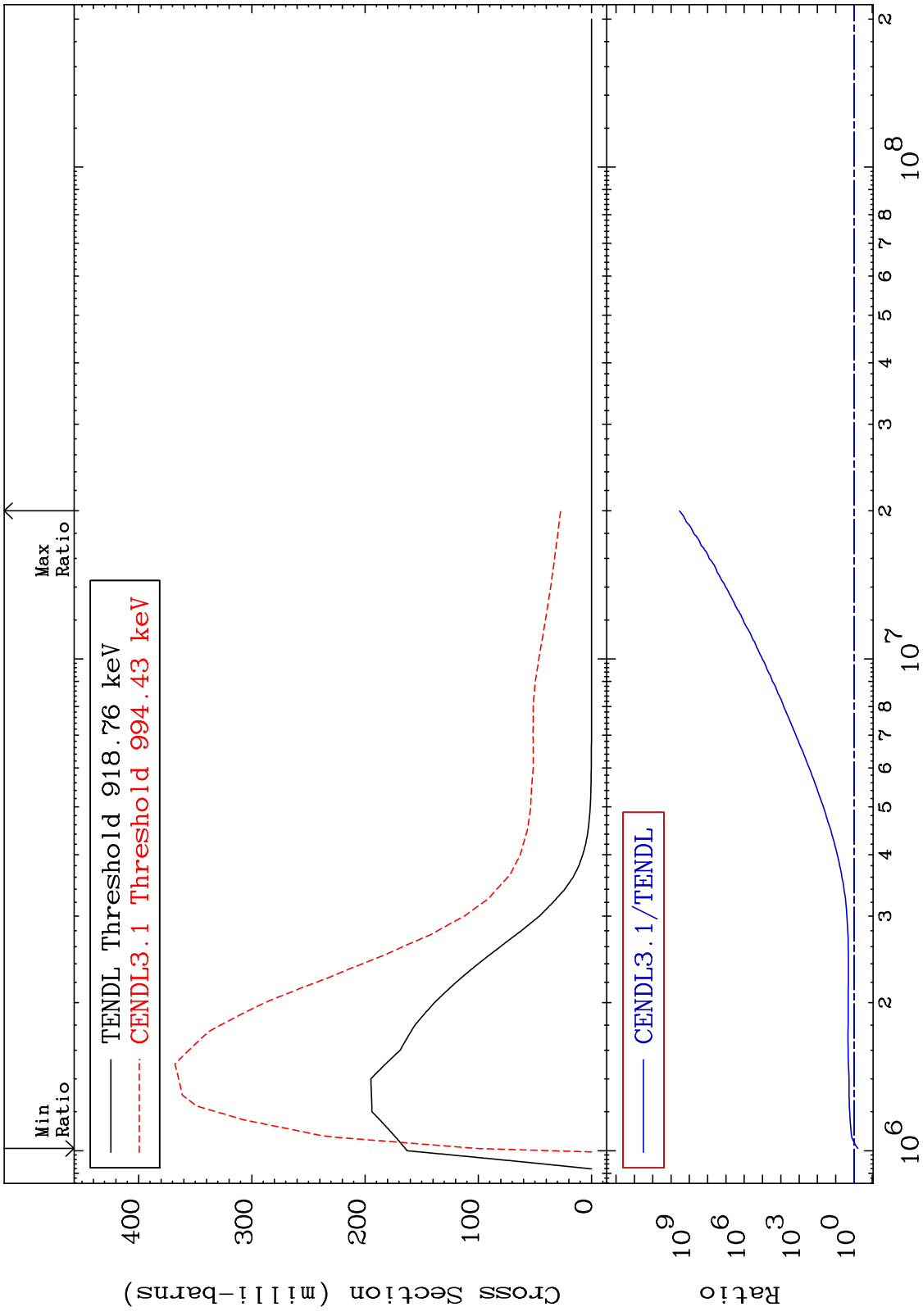


10 Incident Energy (eV) 64-Gd-160

MAT 6449 MT= 54 (n,n') Level 64-Gd-160
 Cross Section -49.15 To 58.41 %

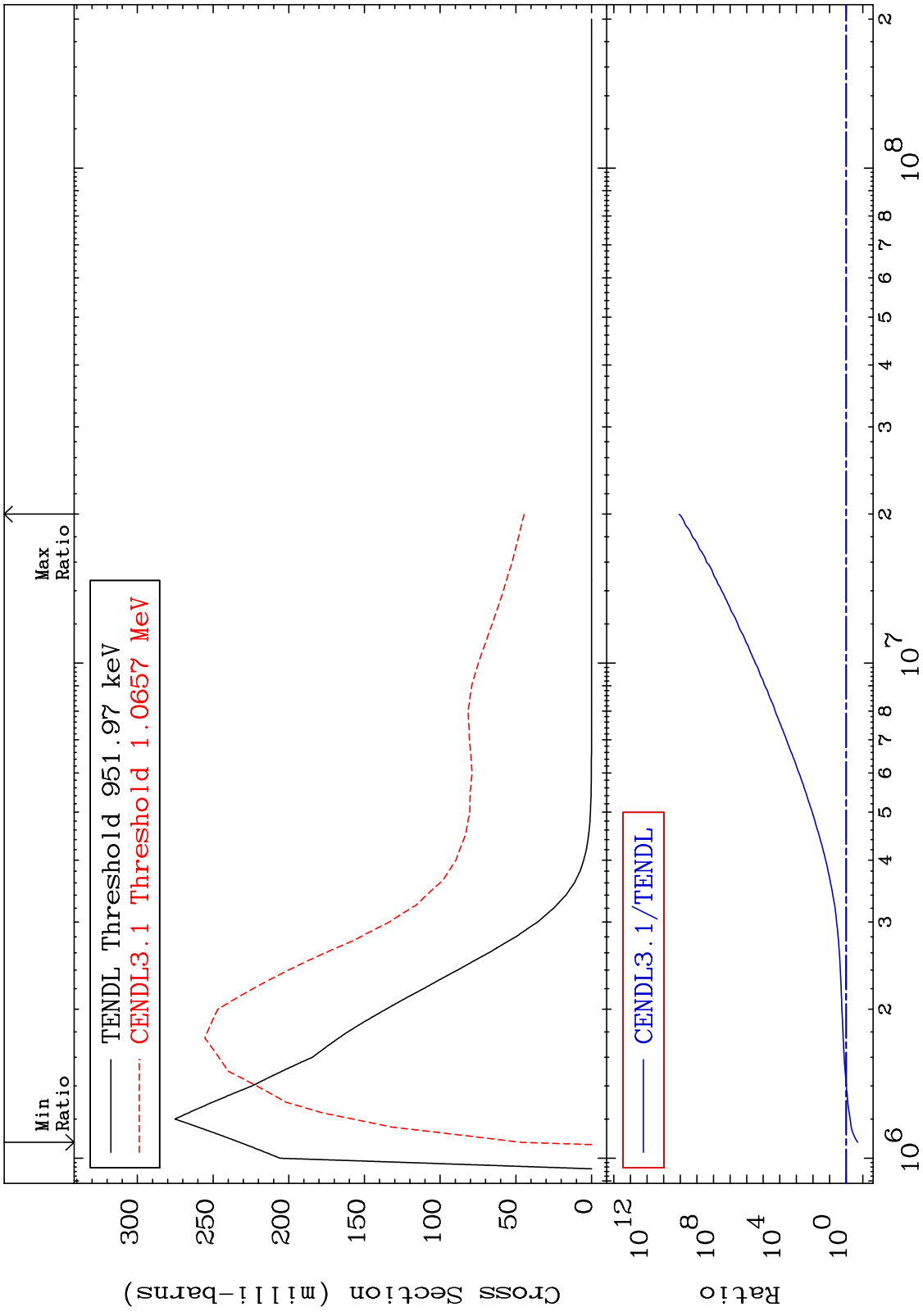


MAT 6449 MT= 55 (n,n') Level 64-Gd-160
 Cross Section -38.34 To 9999. %



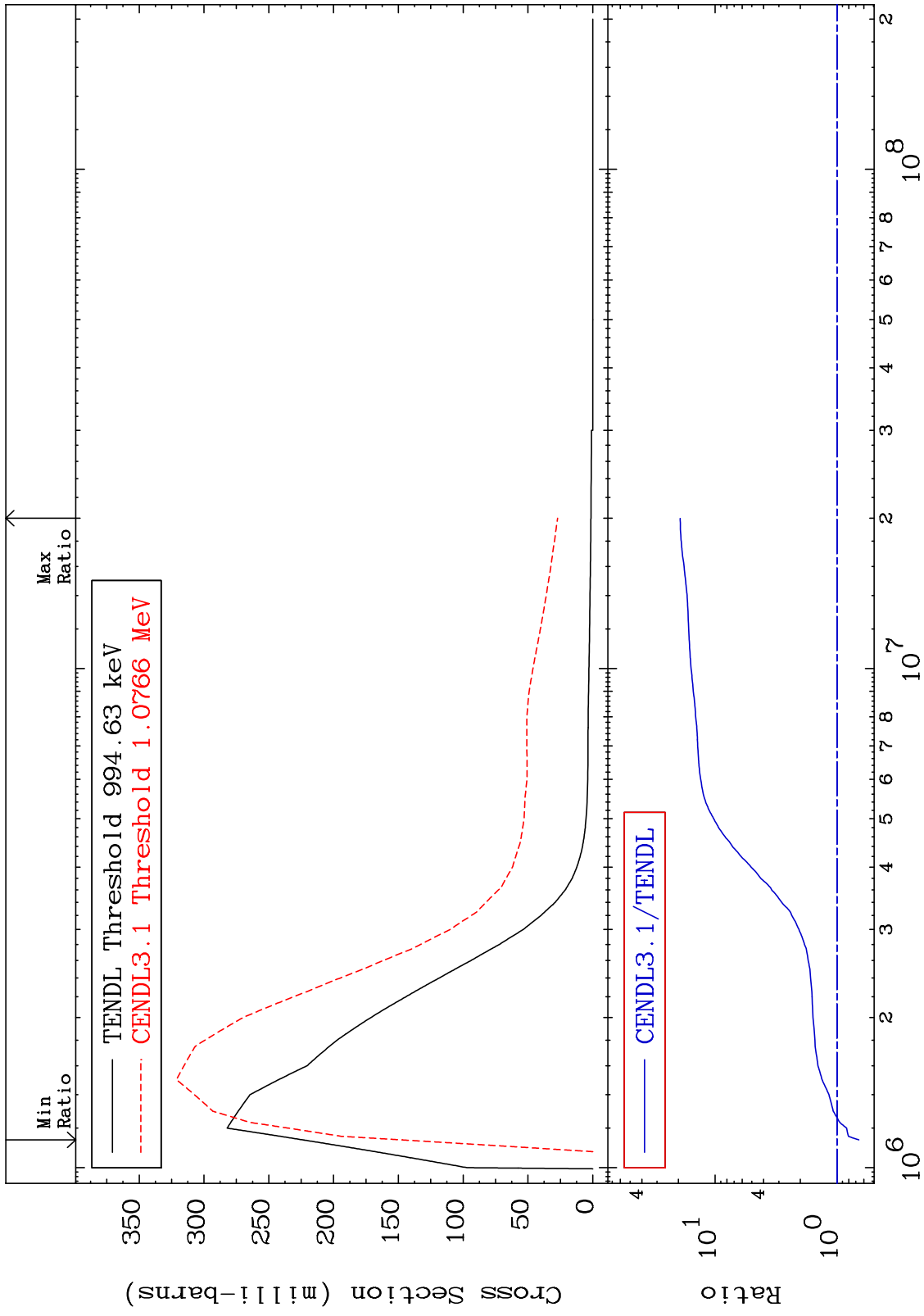
12 Incident Energy (eV) 64-Gd-160

MAT 6449 MT= 56 (n,n') Level 64-Gd-160
 Cross Section -80.02 To 9999. %



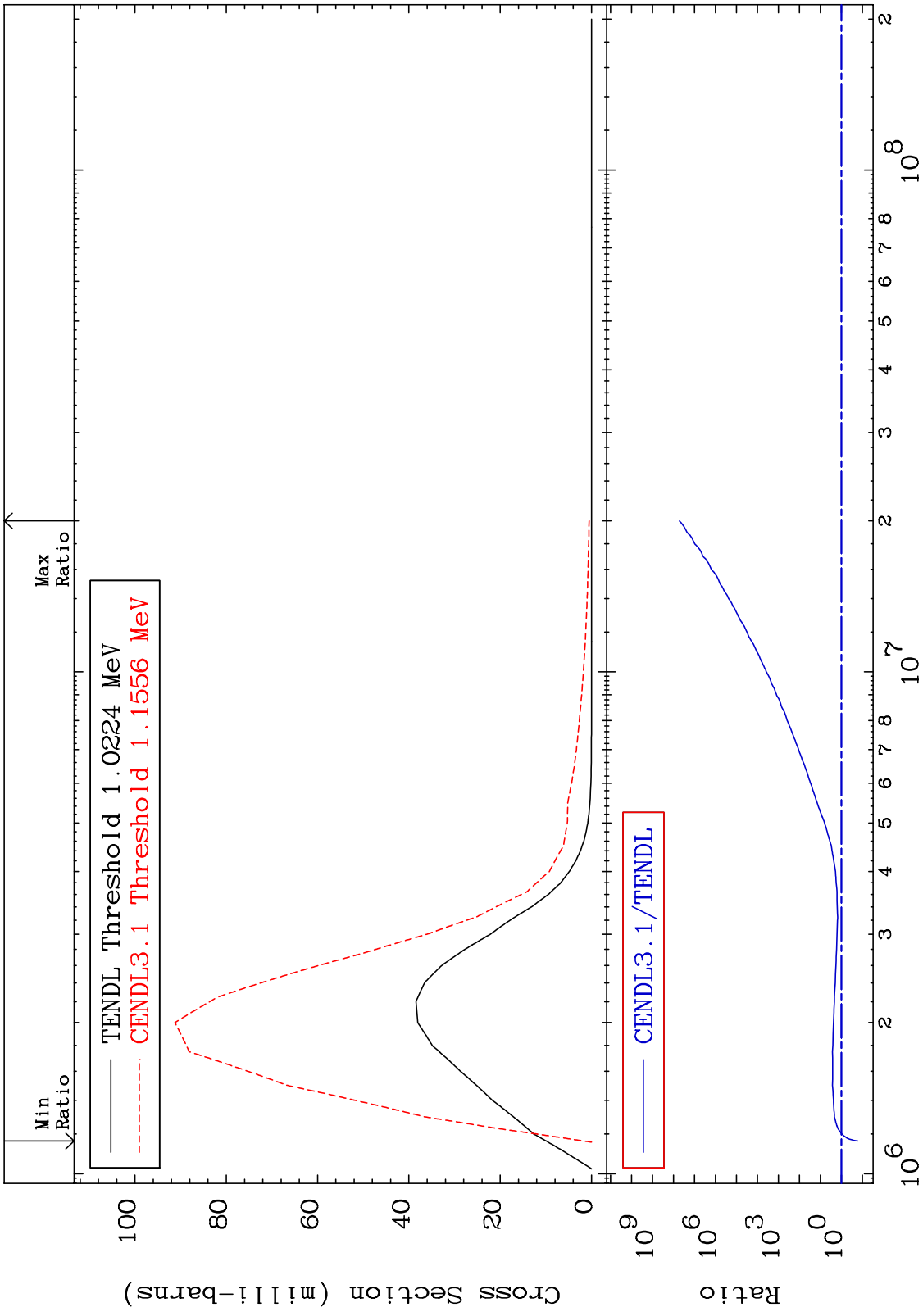
13 64-Gd-160

MAT 6449 MT= 57 (n,n') Level 64-Gd-160
 Cross Section -33.99 To 1835. %



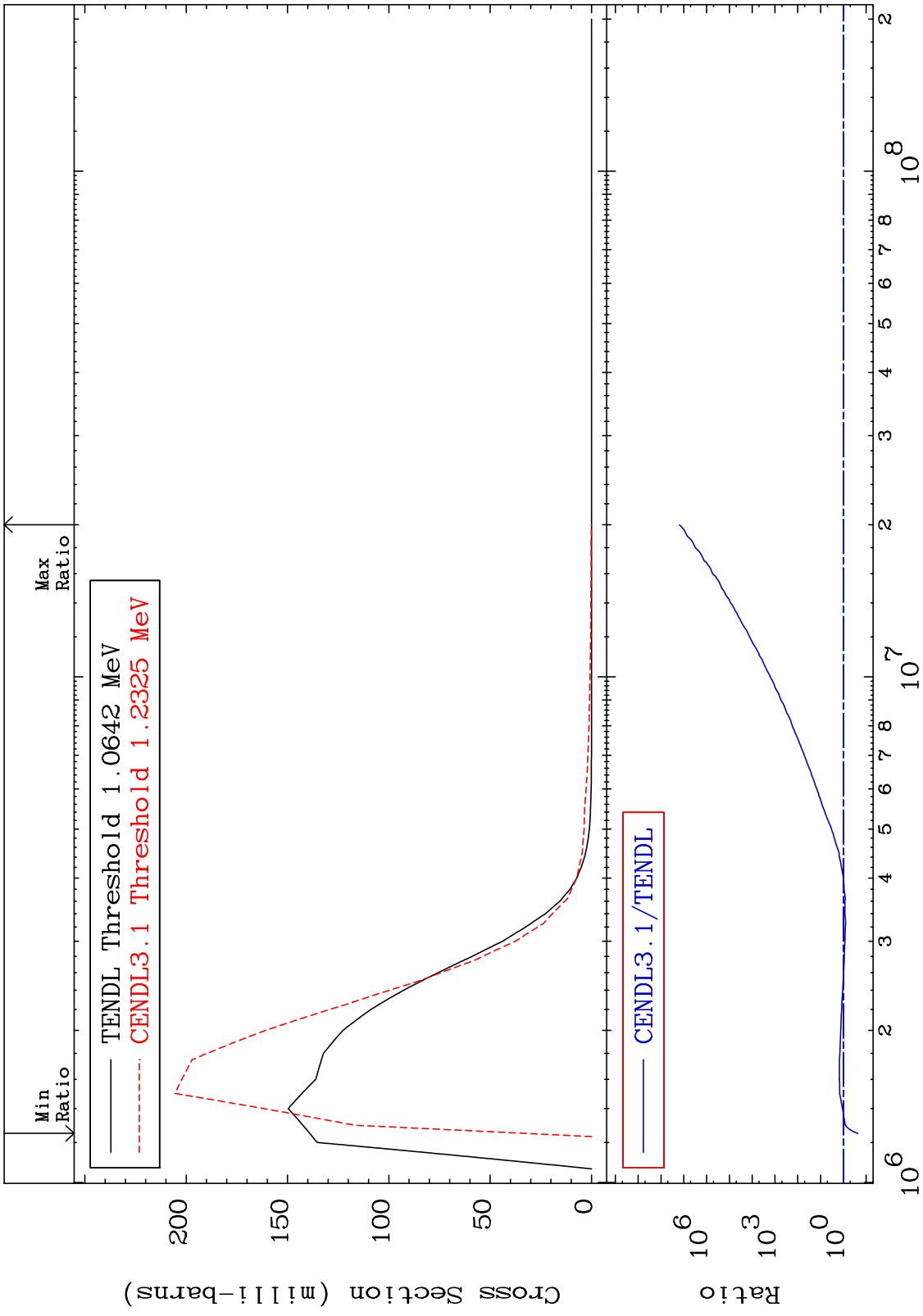
Incident Energy (eV) 64-Gd-160

MAT 6449 MT= 58 (n,n') Level 64-Gd-160
 Cross Section -83.55 To 9999. %



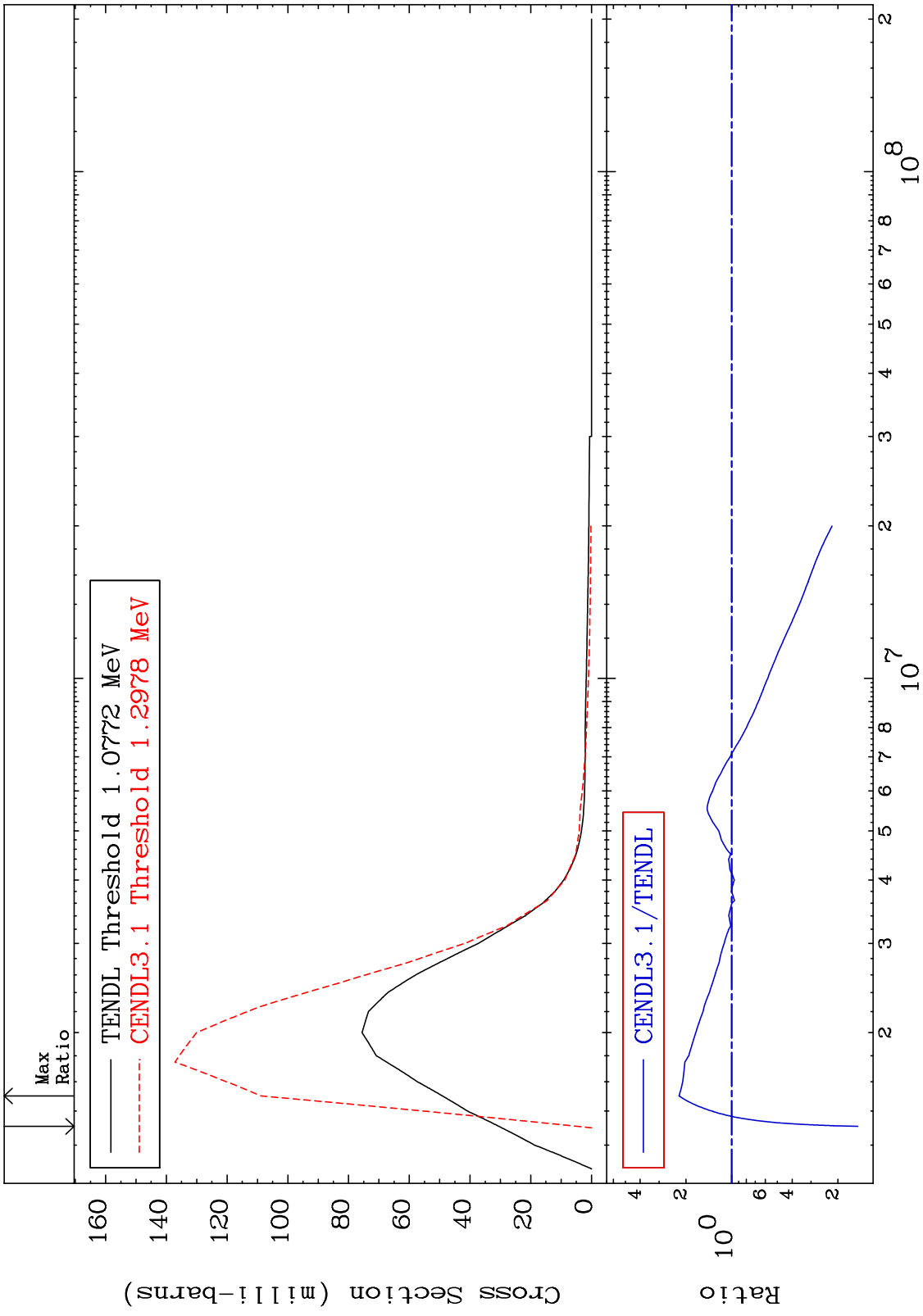
15 Incident Energy (eV) 64-Gd-160

MAT 6449 MT= 59 (n,n') Level Cross Section 64-Gd-160
 -76.85 To 9999. %

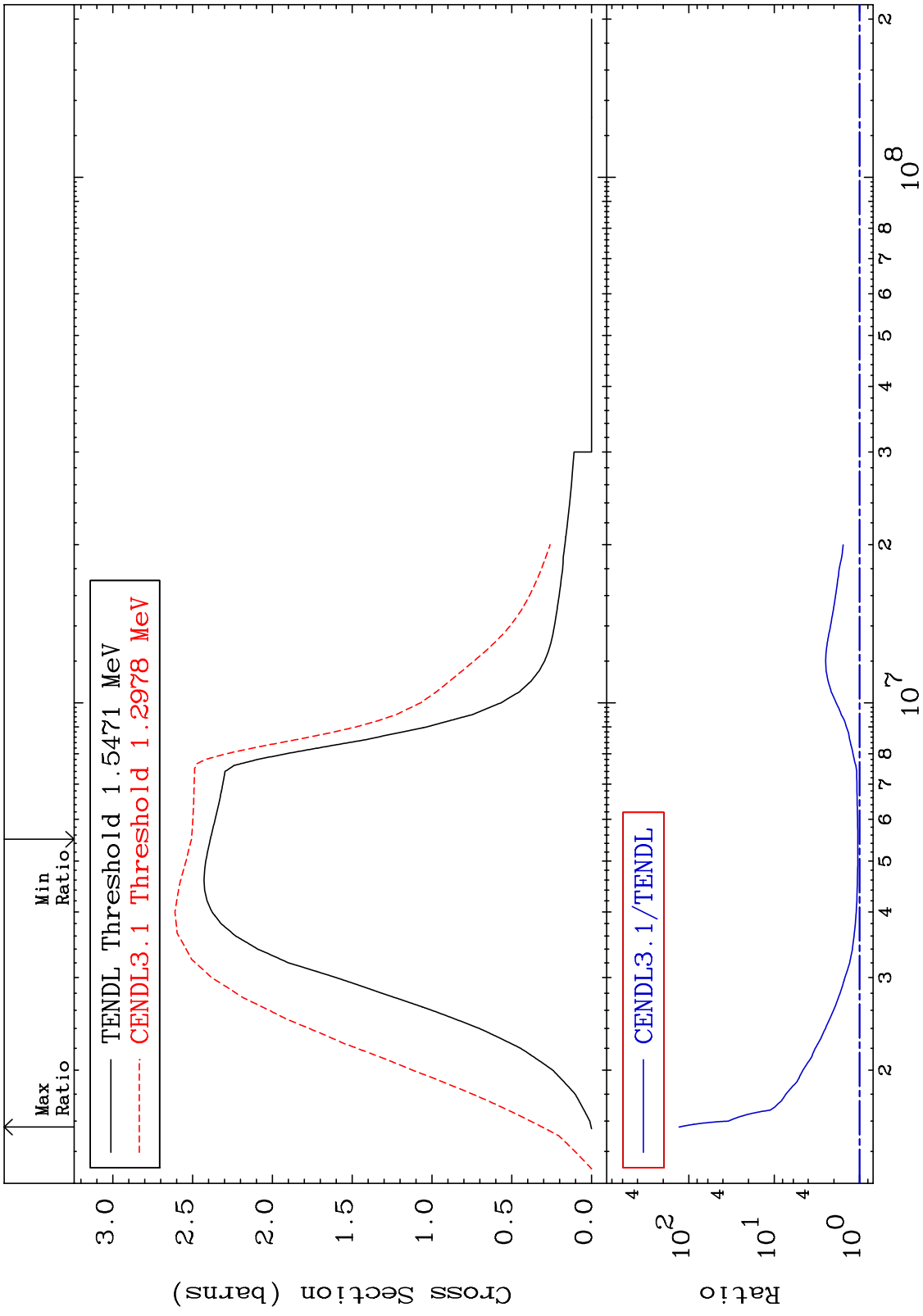


16 Incident Energy (eV) 64-Gd-160

MAT 6449 MT= 60 (n,n') Level 64-Gd-160
 Cross Section -85.22 To 121.8 %



MAT 6449 (n,n') Continuum Cross Section 64-Gd-160 4.944 To 9999. %



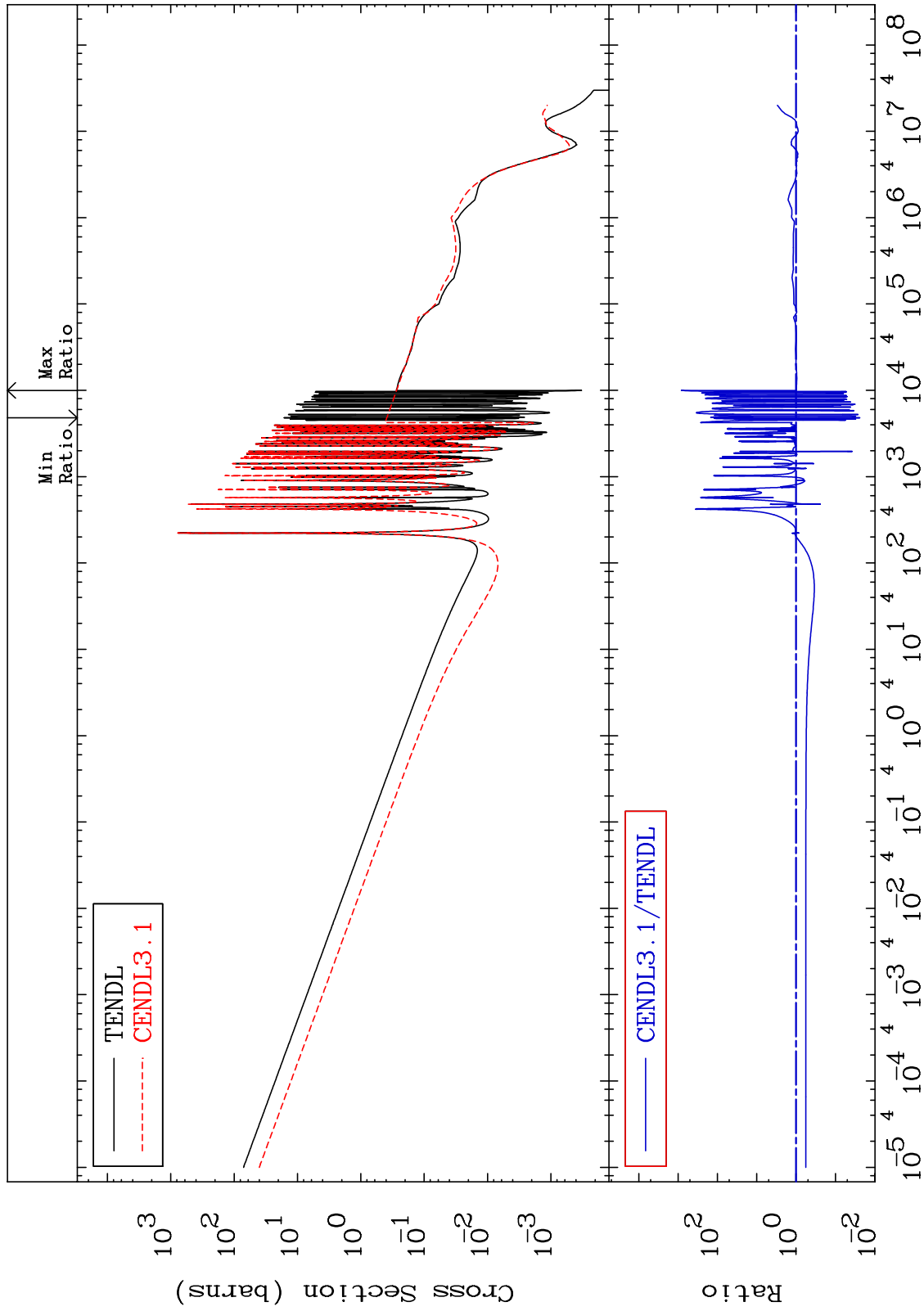
MAT 6449

(n, γ)

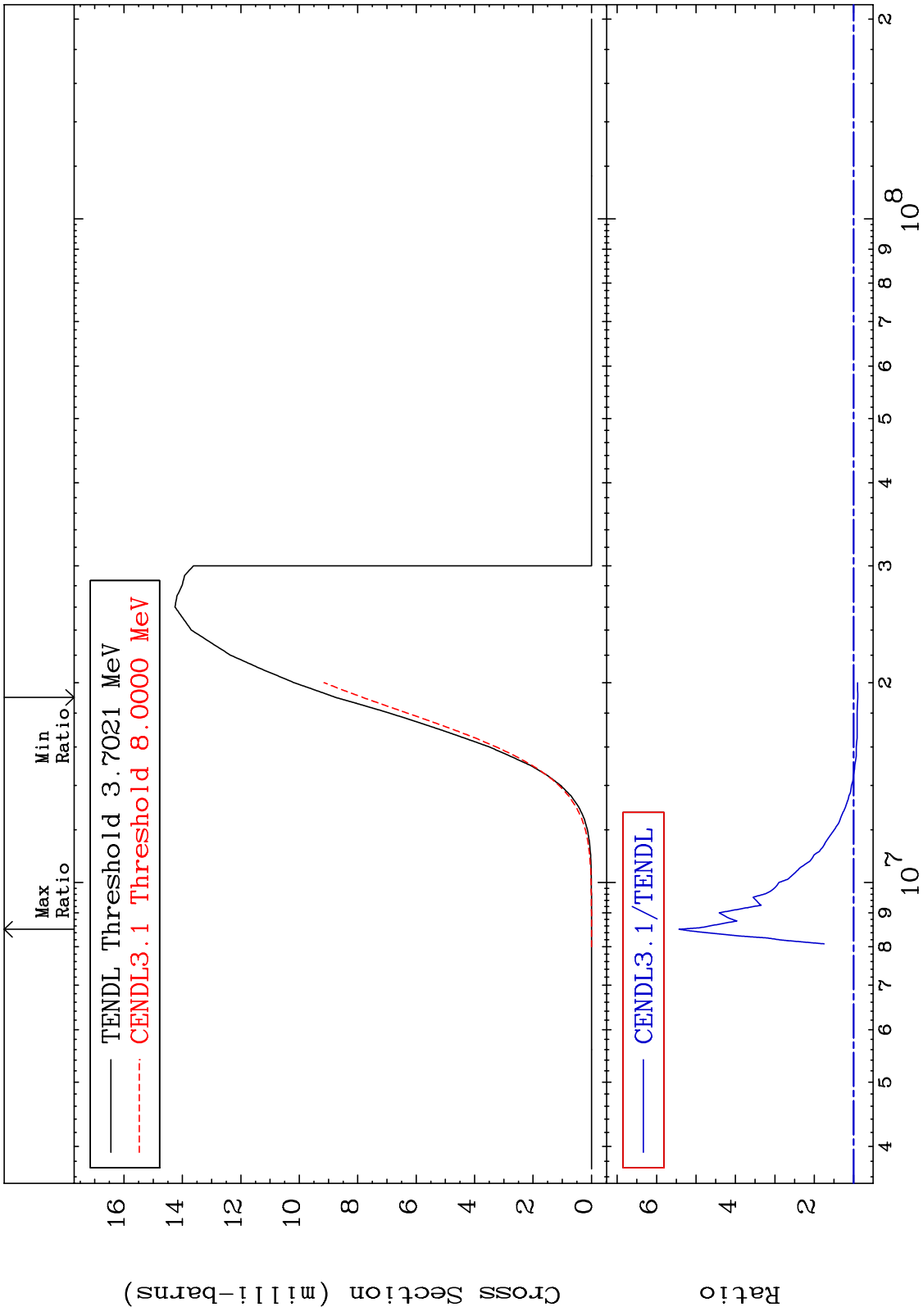
64-Gd-160

Cross Section

-97.60 To 9999. %

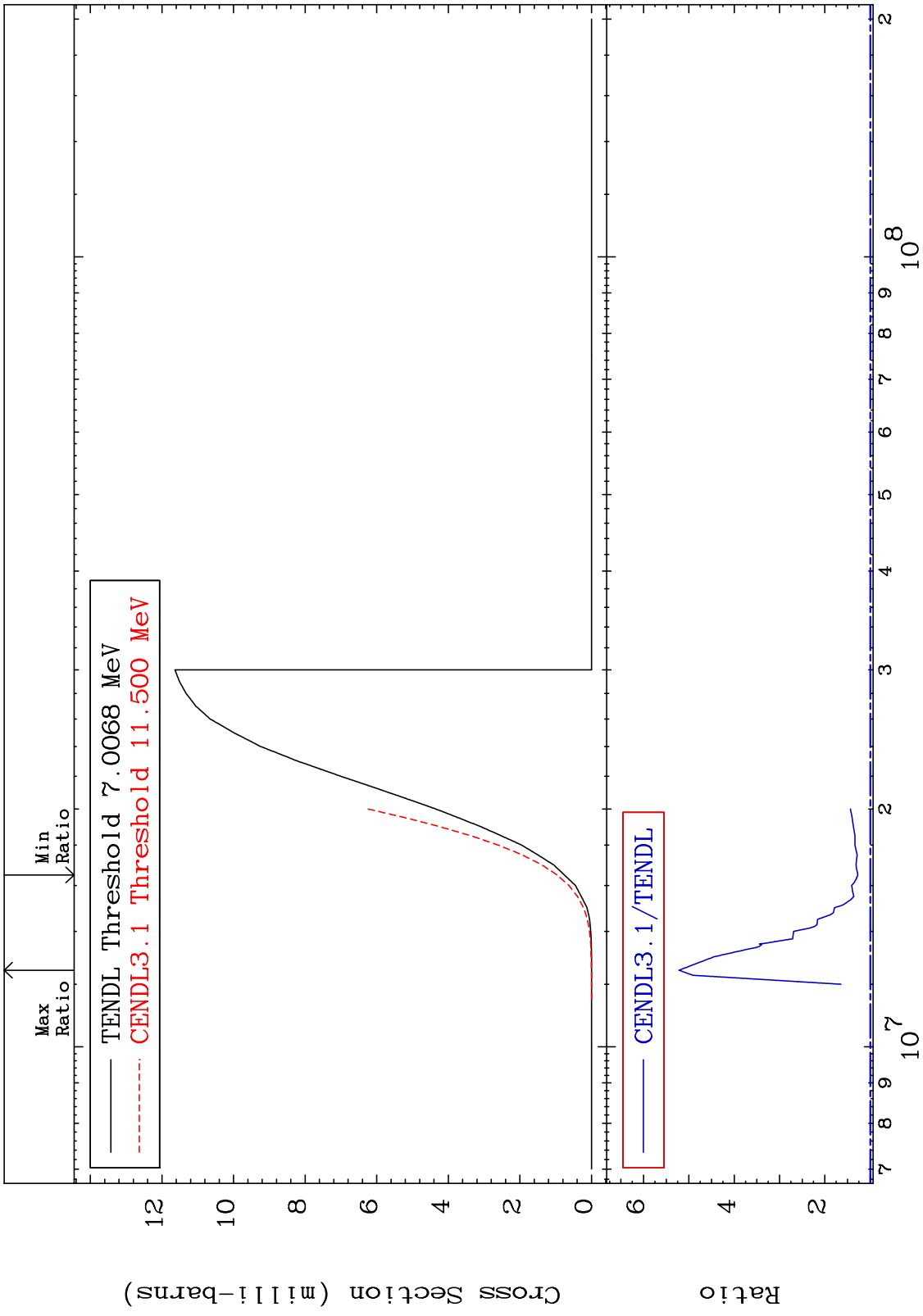


MAT 6449 (n,p) Cross Section 64-Gd-160
 -10.58 To 443.0 %



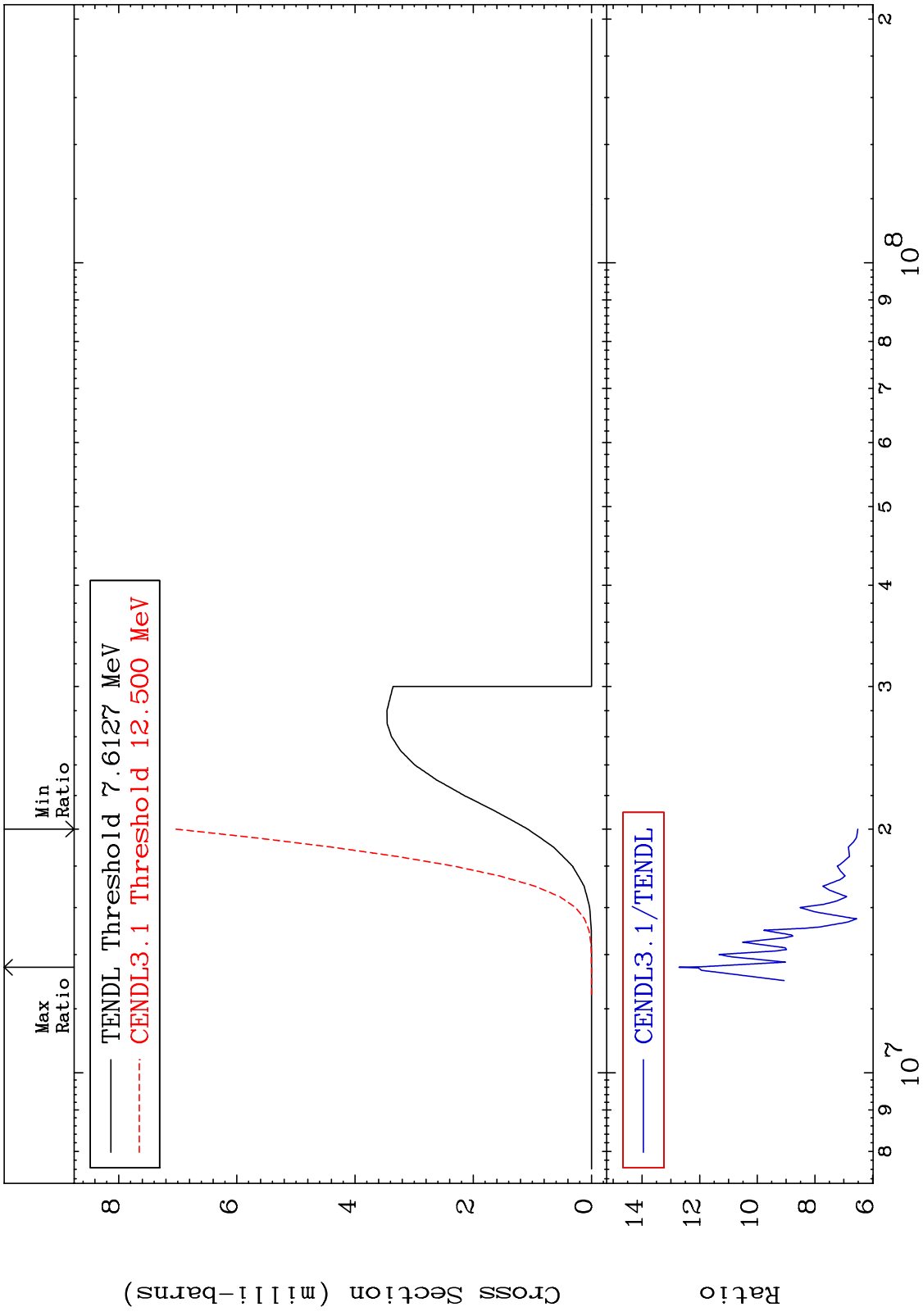
20 64-Gd-160

MAT 6449 (n,d) Cross Section 64-Gd-160 27.19 To 421.8 %

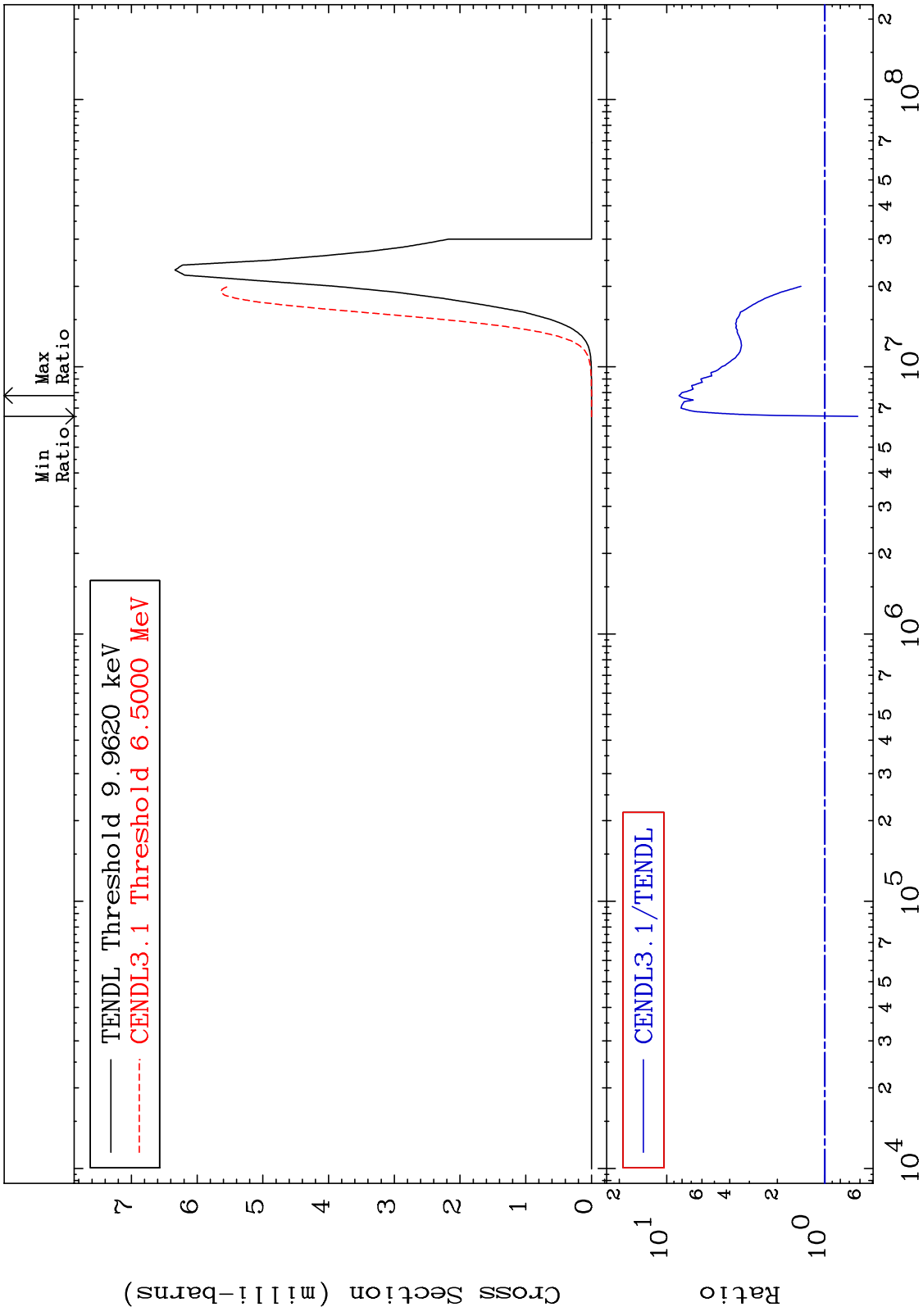


21 64-Gd-160

MAT 6449 (n,t) Cross Section 64-Gd-160 To 1172. %

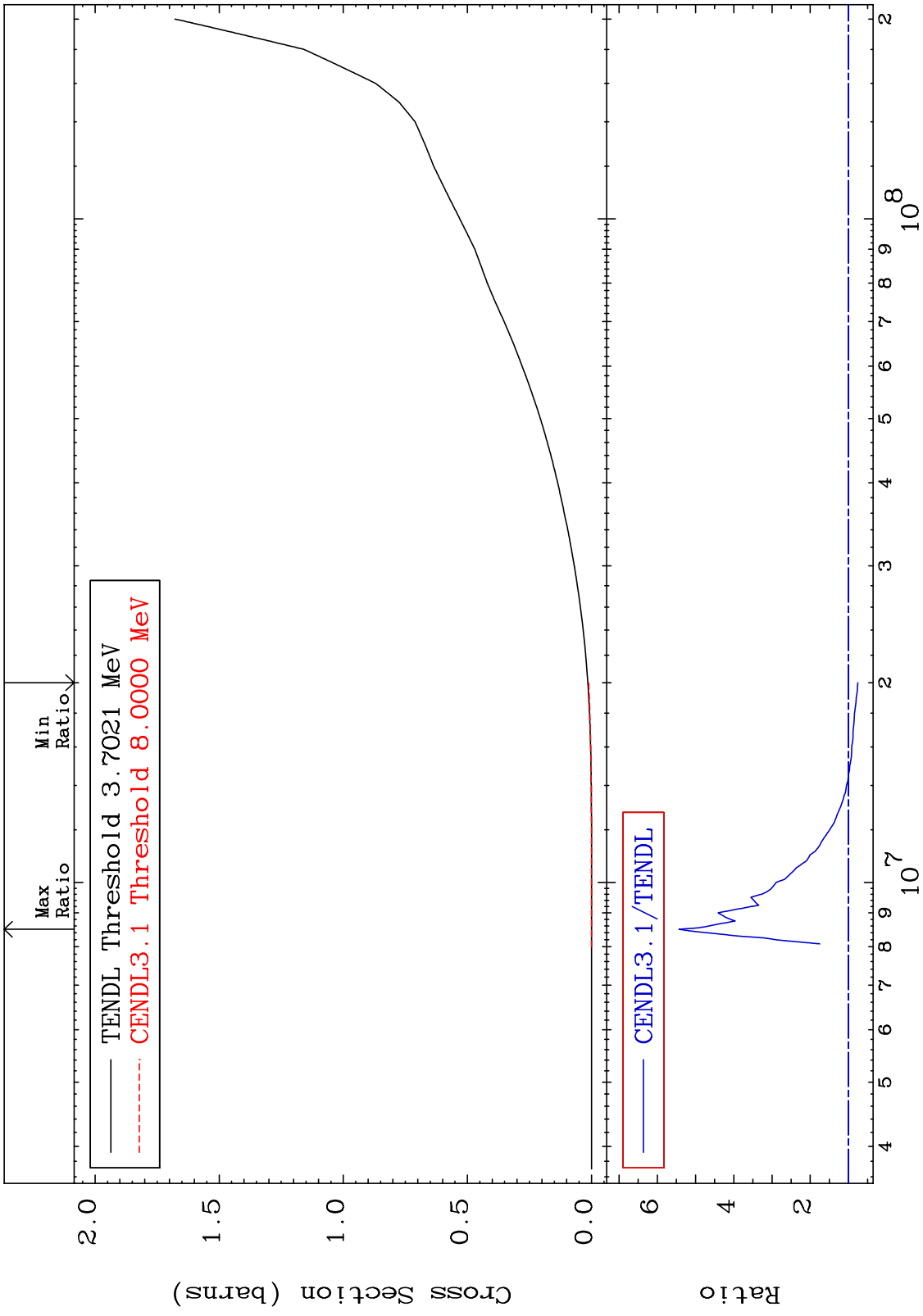


MAT 6449 (n, α) Cross Section $^{64}\text{Gd}-160$
 -38.12 To 736.7 %

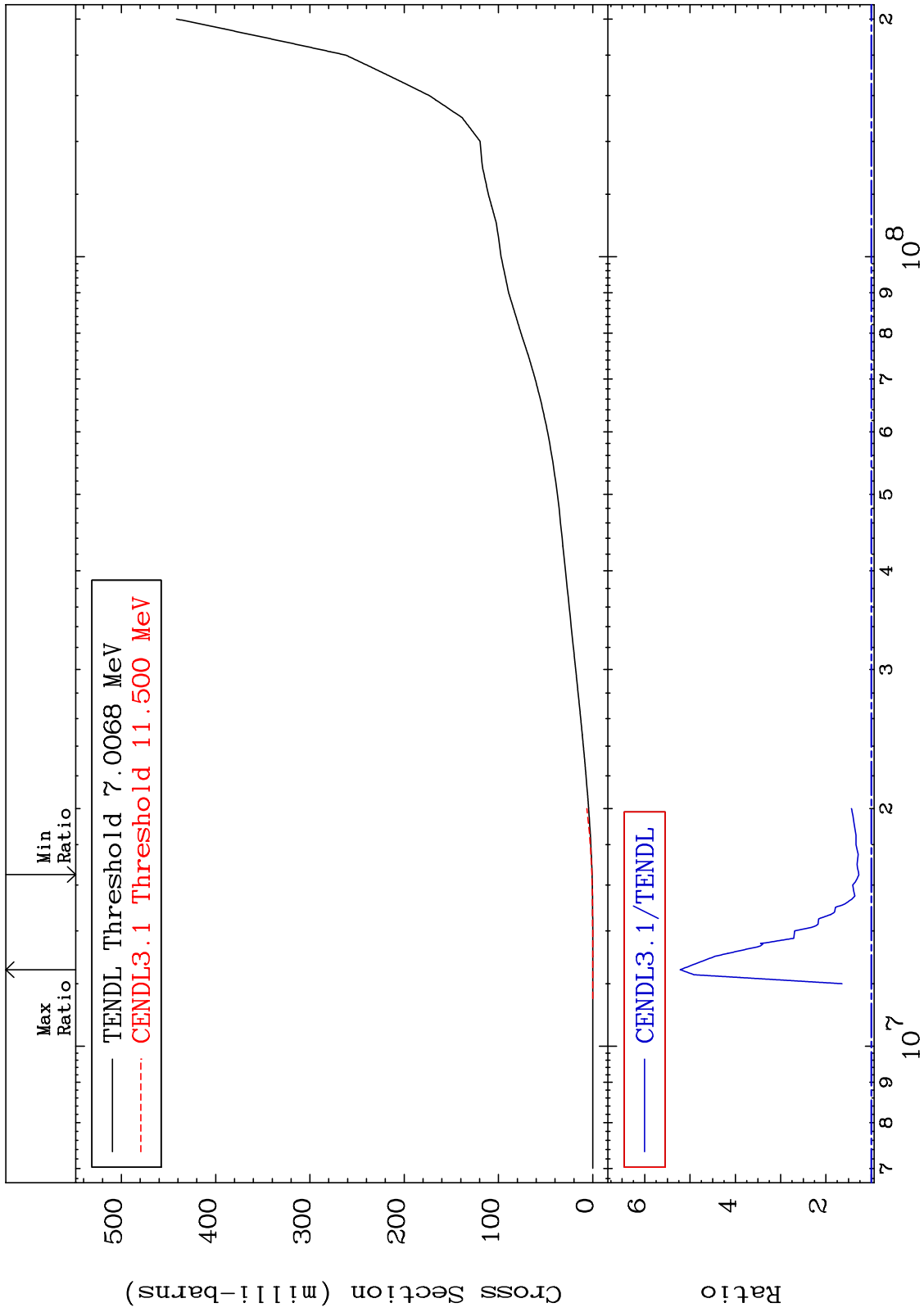


Incident Energy (eV) $^{64}\text{Gd}-160$

MAT 6449 Hydrogen Production Cross Section 64-Gd-160 -24.43 To 443.0 %

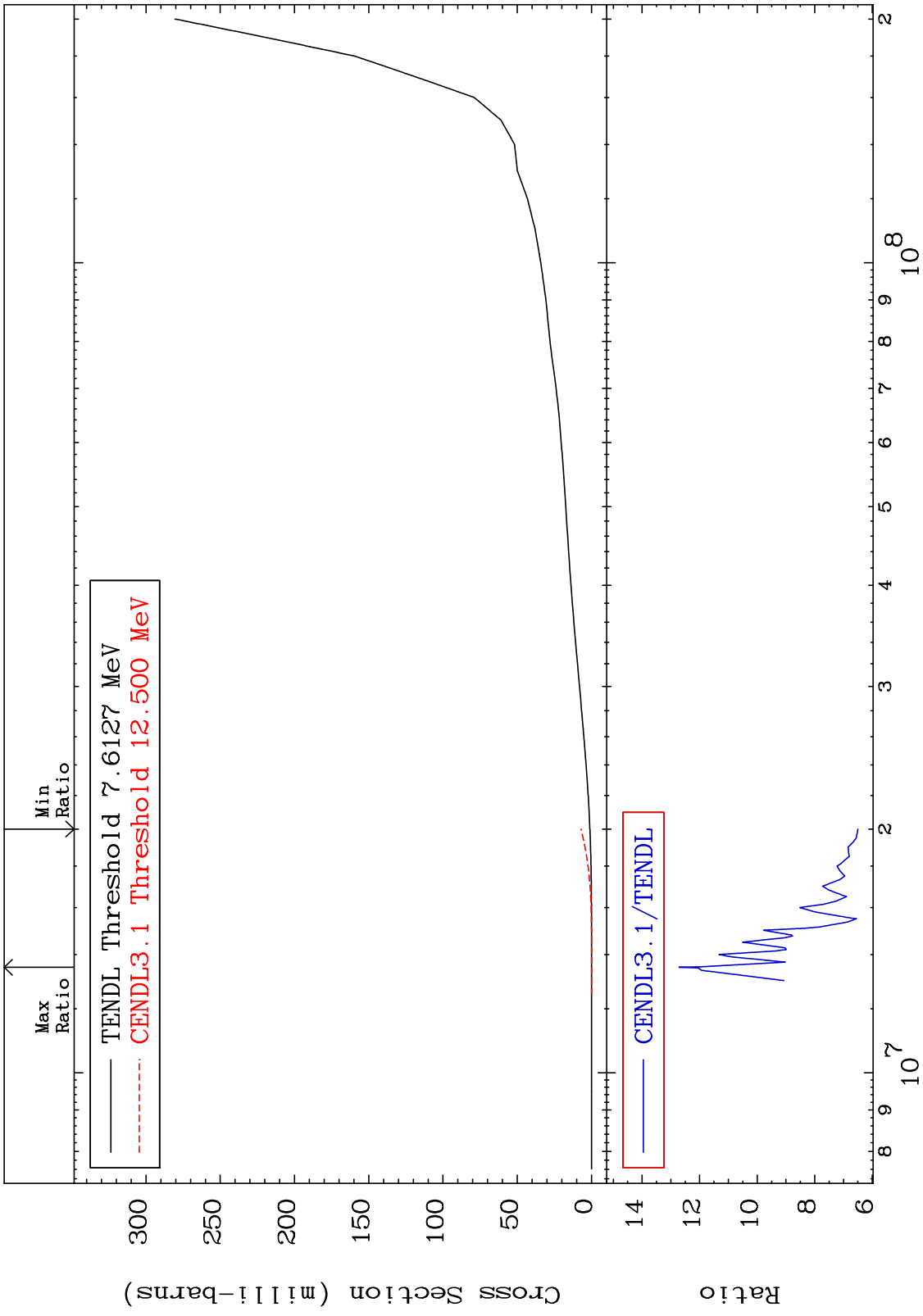


MAT 6449 Deuterium Production Cross Section 64-Gd-160 27.19 To 421.8 %



64-Gd-160 Incident Energy (eV) 25

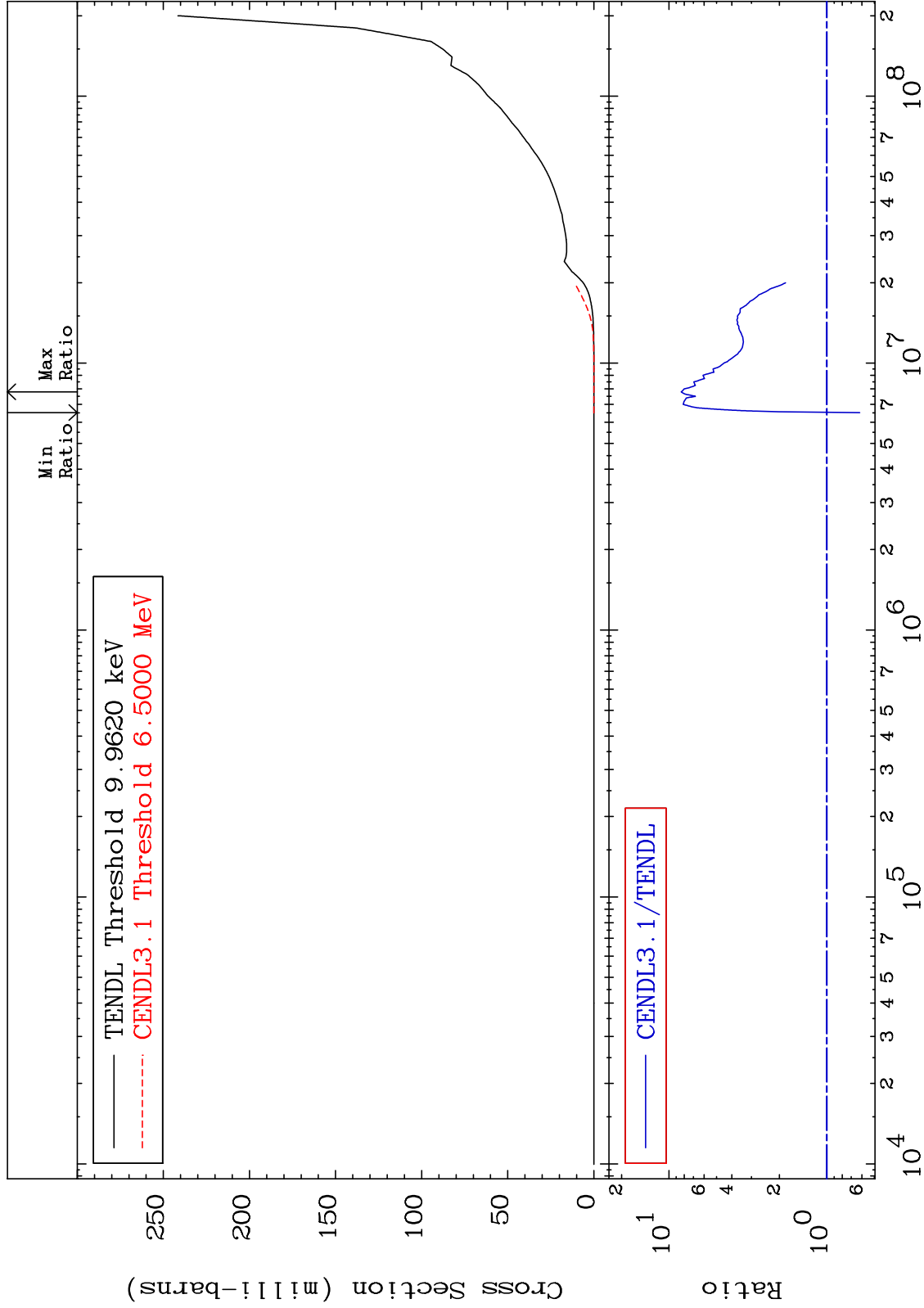
MAT 6449 Tritium Production Cross Section 64-Gd-160 To 1172. %



MAT 6449

He-4 Production
Cross Section

64-Gd-160
-38.12 To 736.6 %

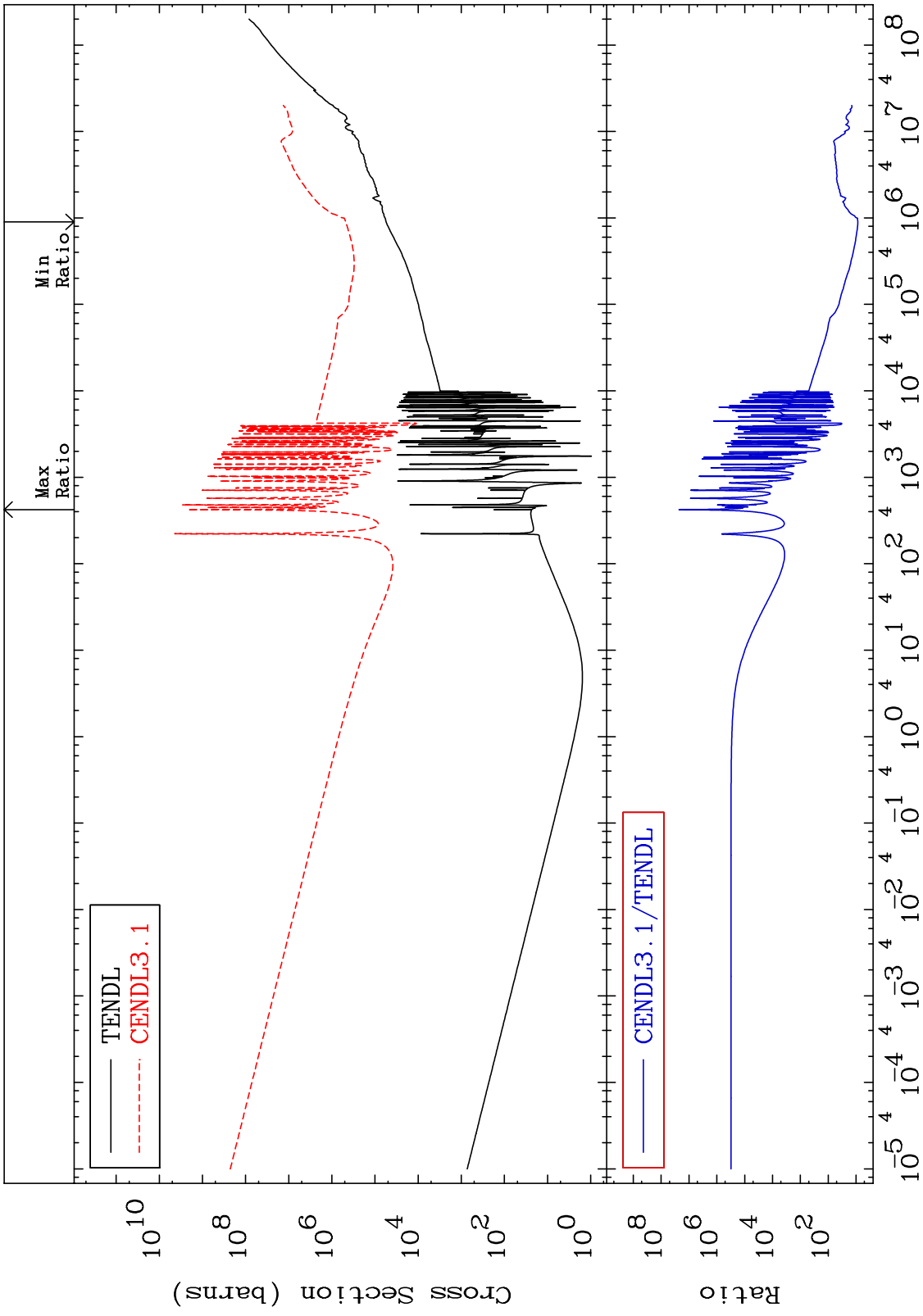


27

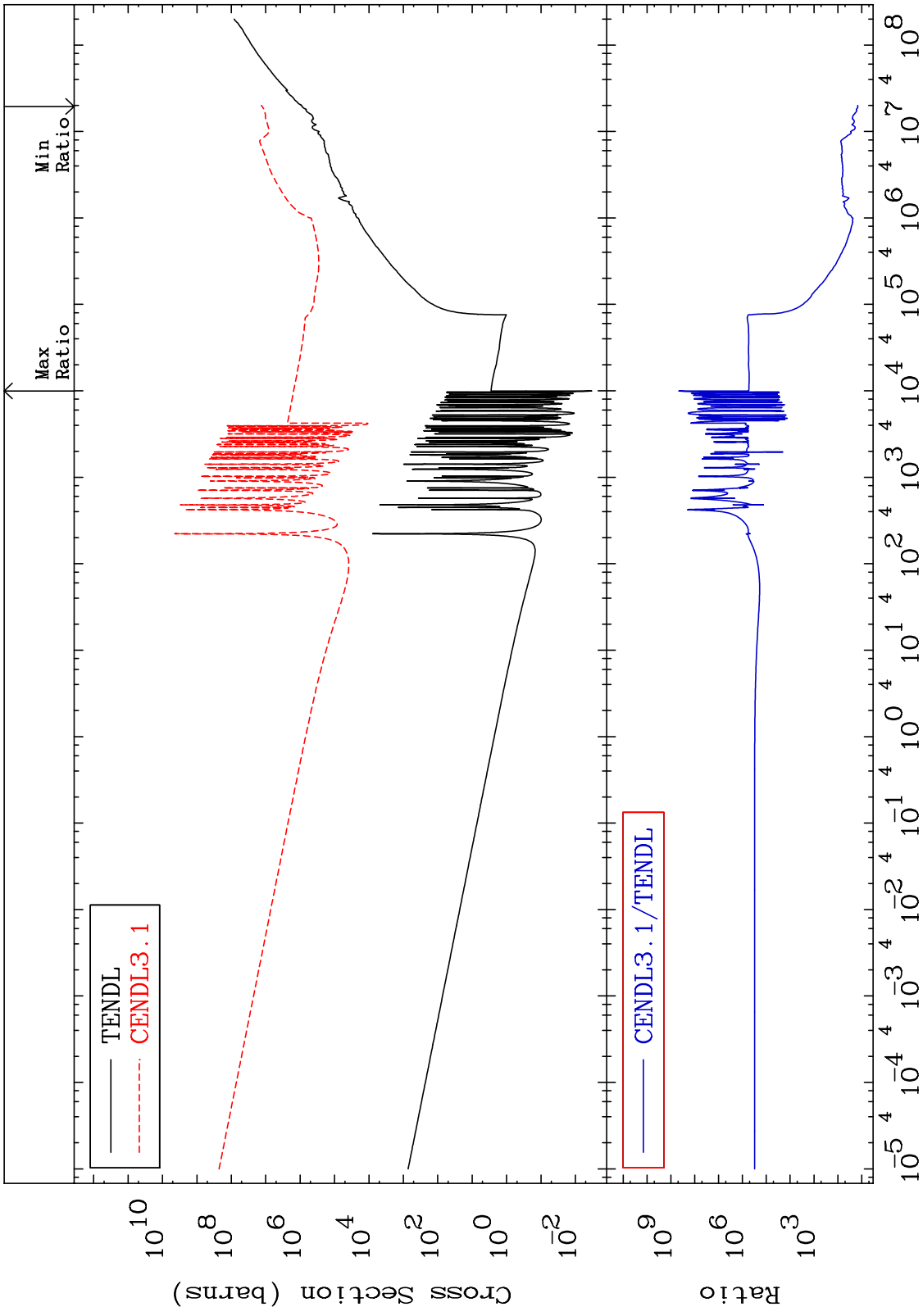
Incident Energy (eV)

64-Gd-160

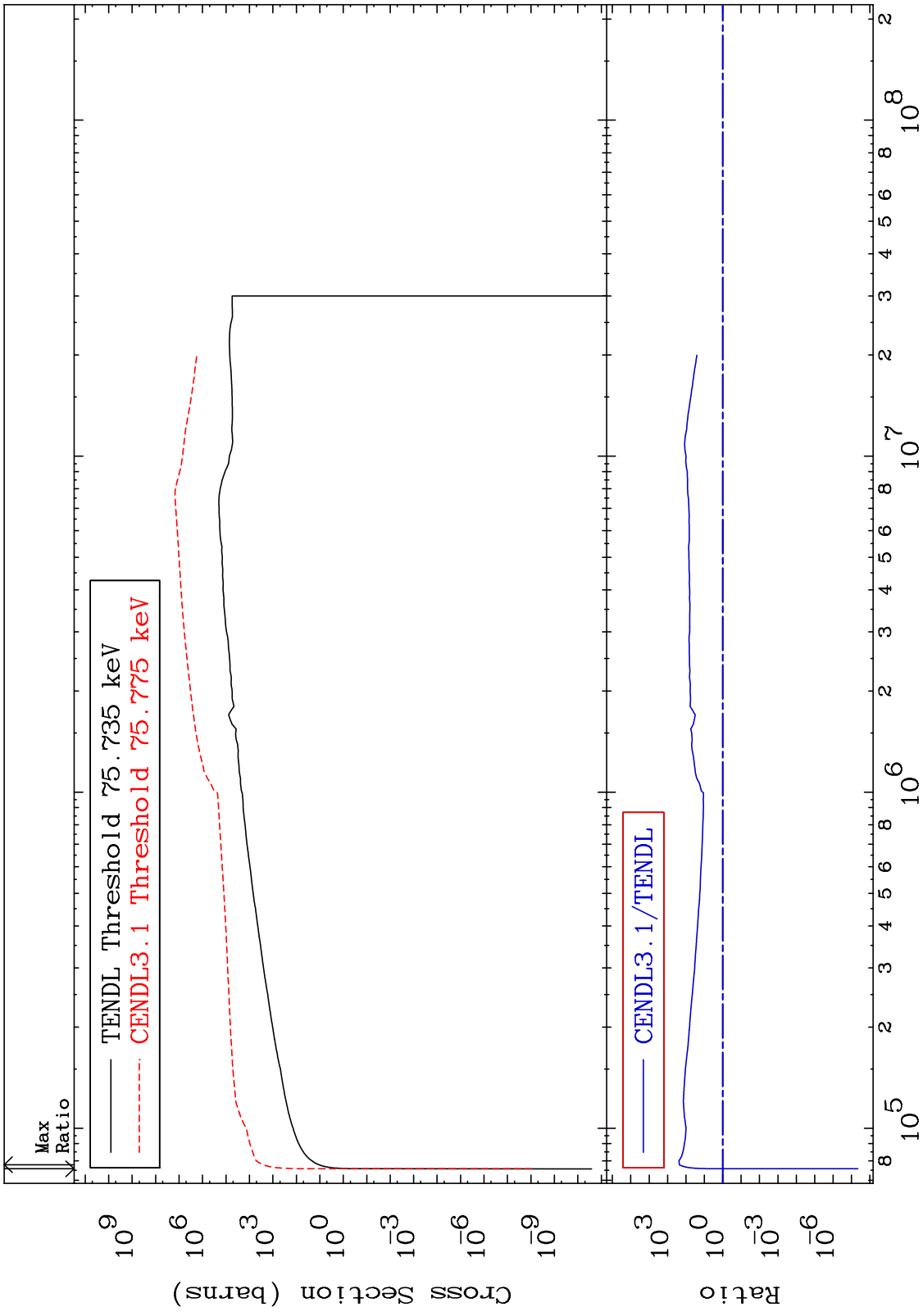
MAT 6449 Kerma total (eV-barns) Cross Section 64-Gd-160 761.9 To 9999. %



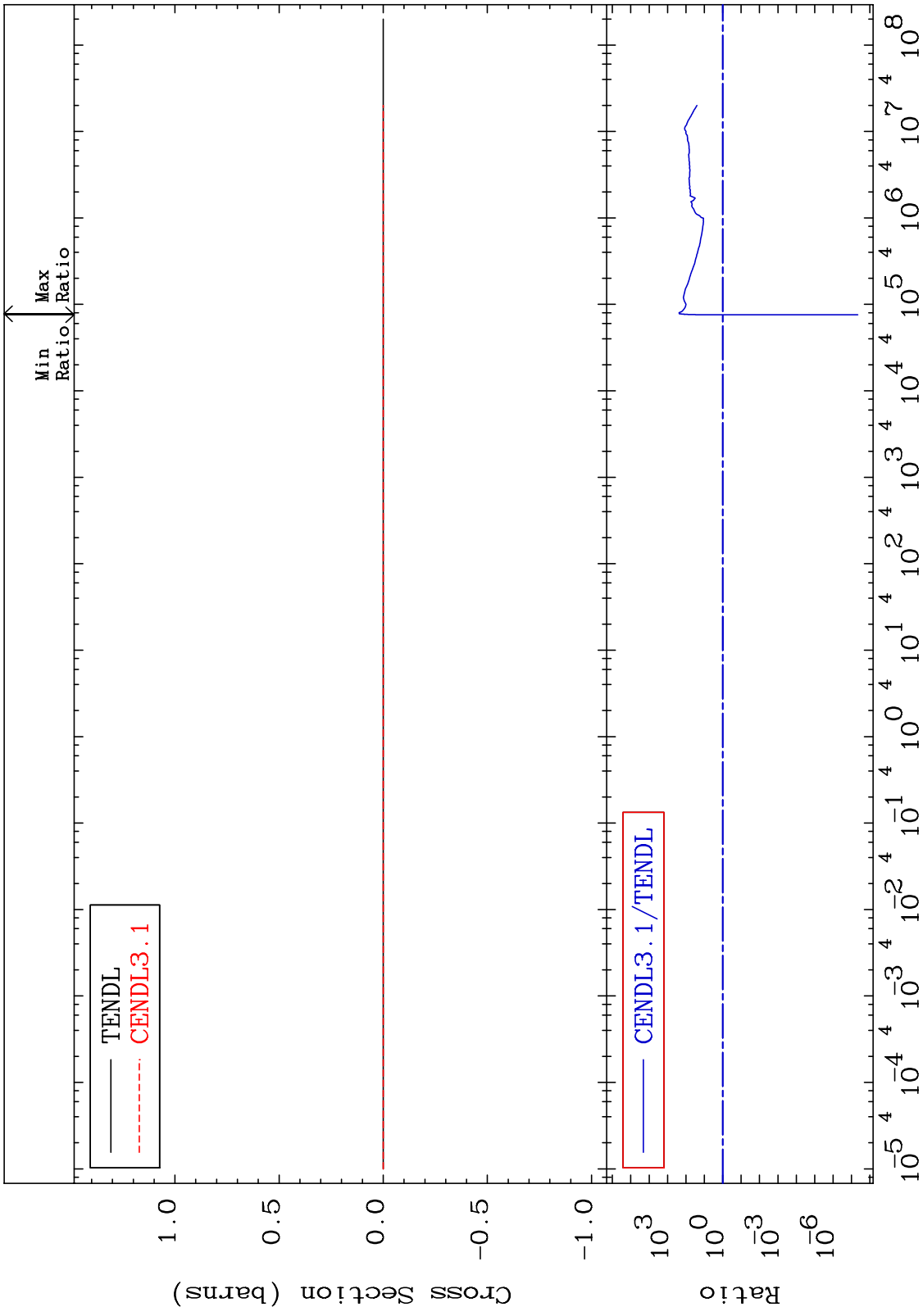
MAT 6449 Kerma non-elastic (all but mt2) 64-Gd-160
 Cross Section 1349. To 9999. %



MAT 6449 Kerma inelastic (mt51-91) 64-Gd-160
 -100.0 To 9999. %
 Cross Section



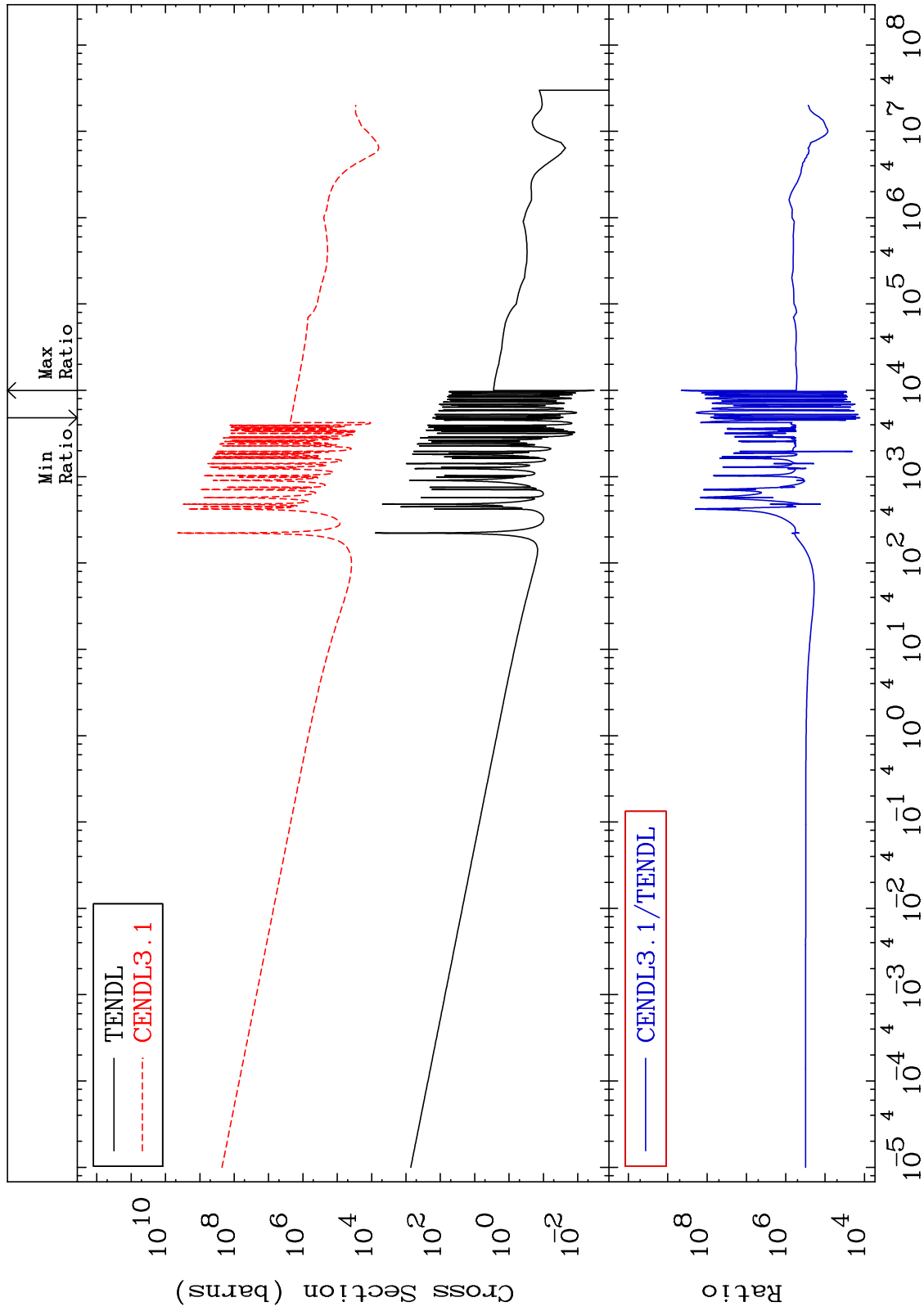
MAT 6449 Kerma fission (mt18 or mt19-20-21-38) 64-Gd-160
 Cross Section -100.0 To 9999. %



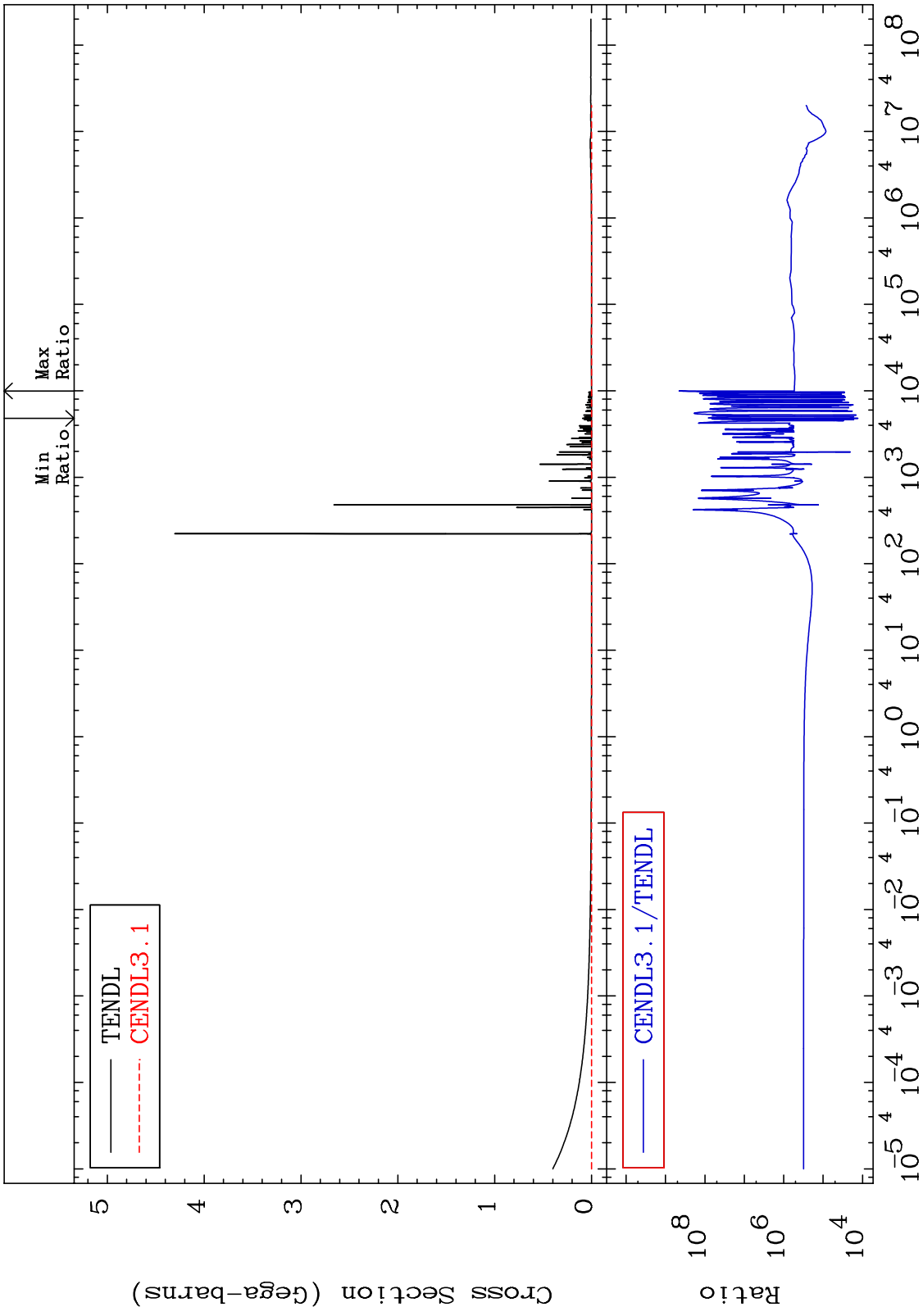
MAT 6449

Kerma capture (mt102)
Cross Section

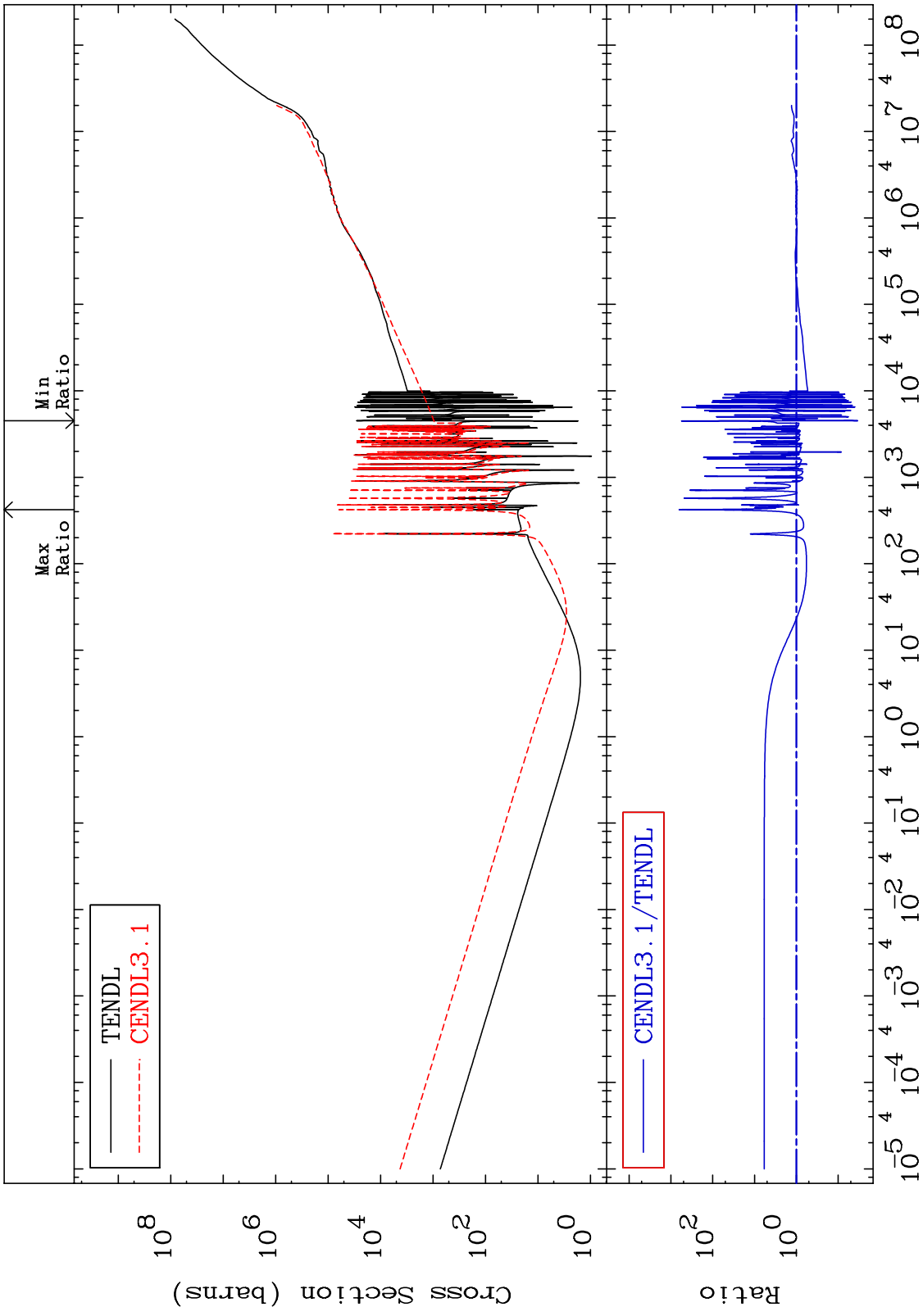
64-Gd-160
9999. To 9999. %



MAT 6449 Total photon (eV-barns) Cross Section 64-Gd-160 9999. To 9999. %



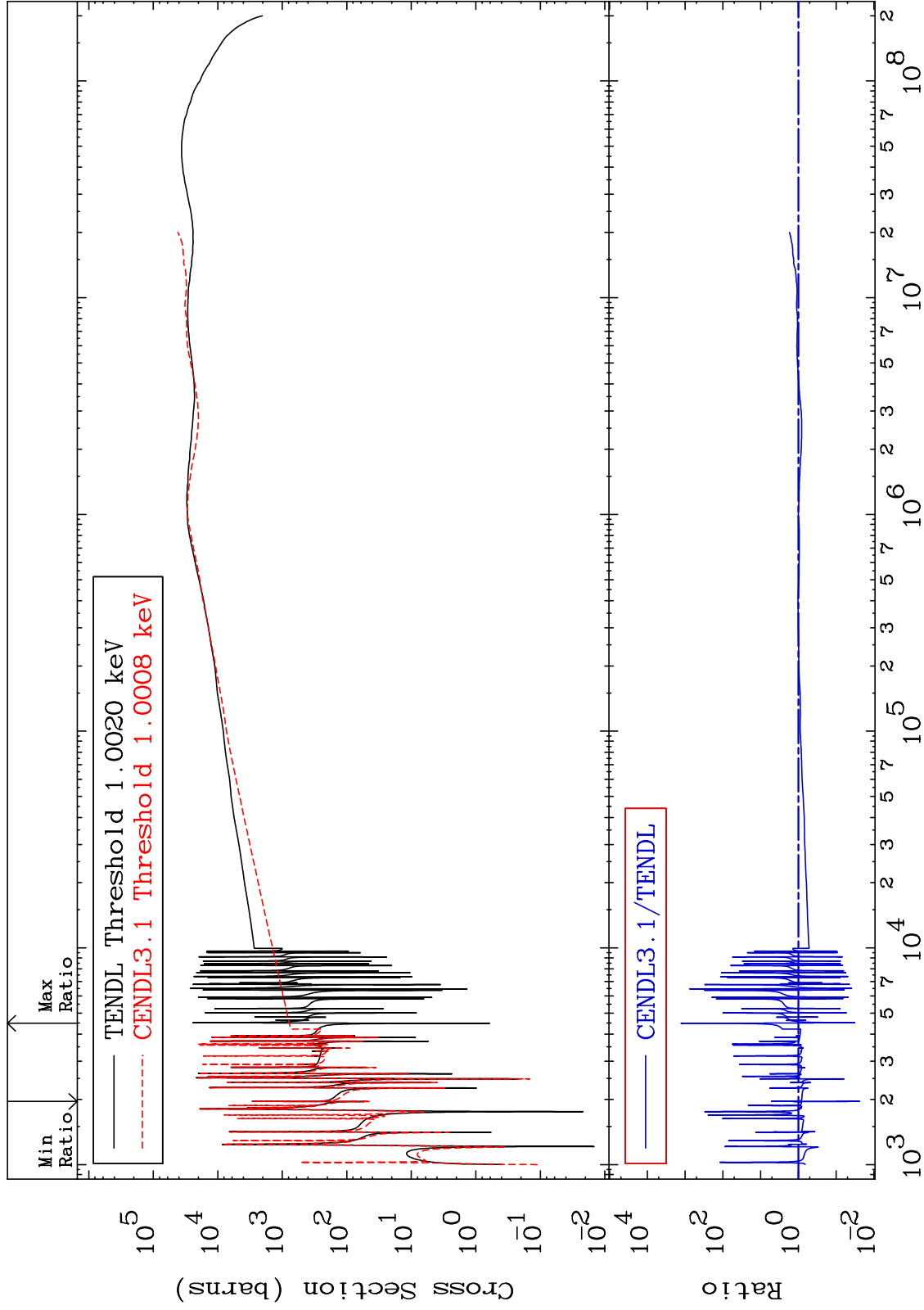
MAT 6449 Total kinematic kerma (high limit) 64-Gd-160
 Cross Section -96.62 To 9999. %



MAT 6449

Dpa elastic (mt2)
Cross Section

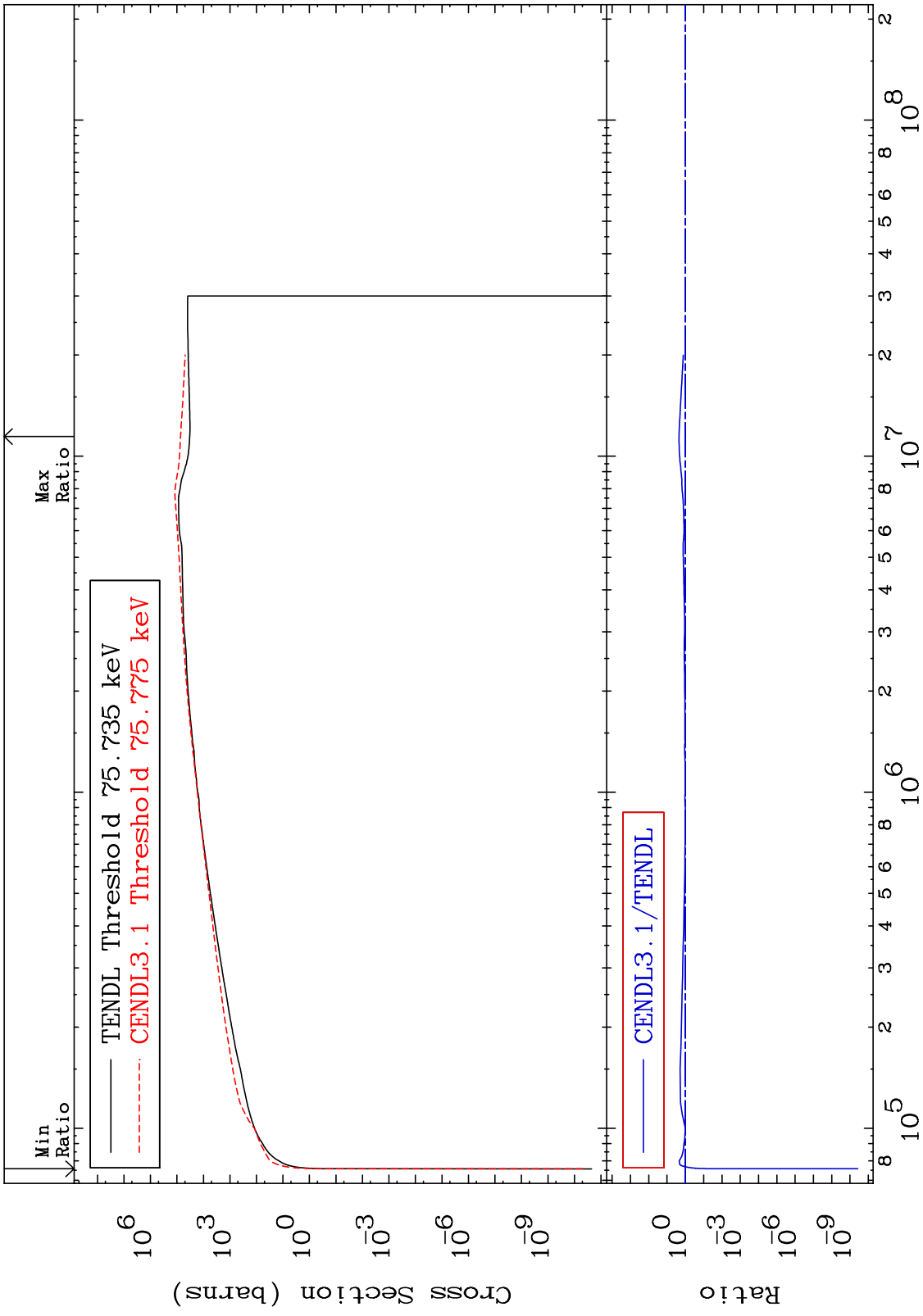
64-Gd-160
-97.64 To 9999. %



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64-Gd-160

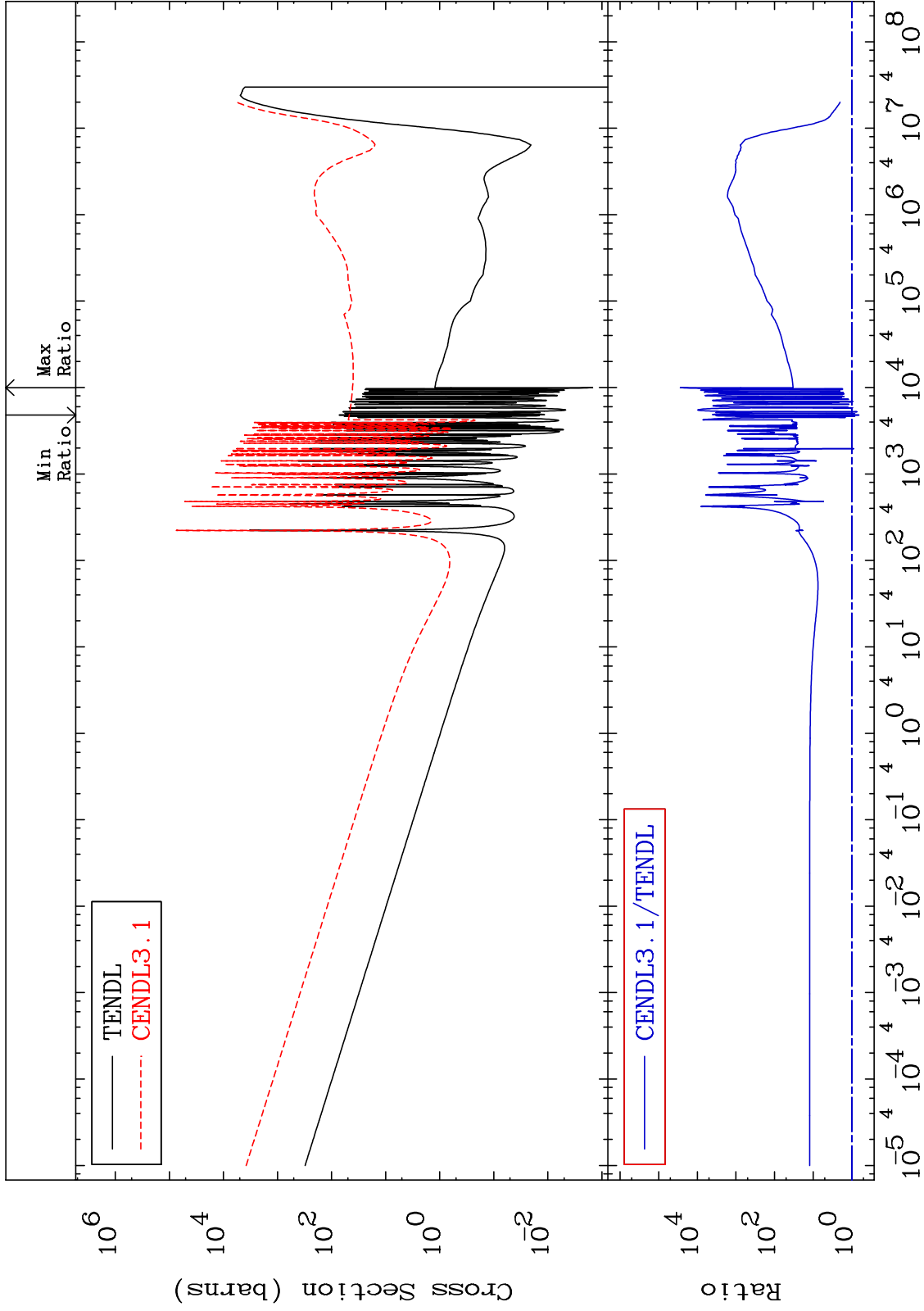
MAT 6449 Dpa inelastic (mt51-91) 64-Gd-160
 Cross Section -100.0 To 121.3 %



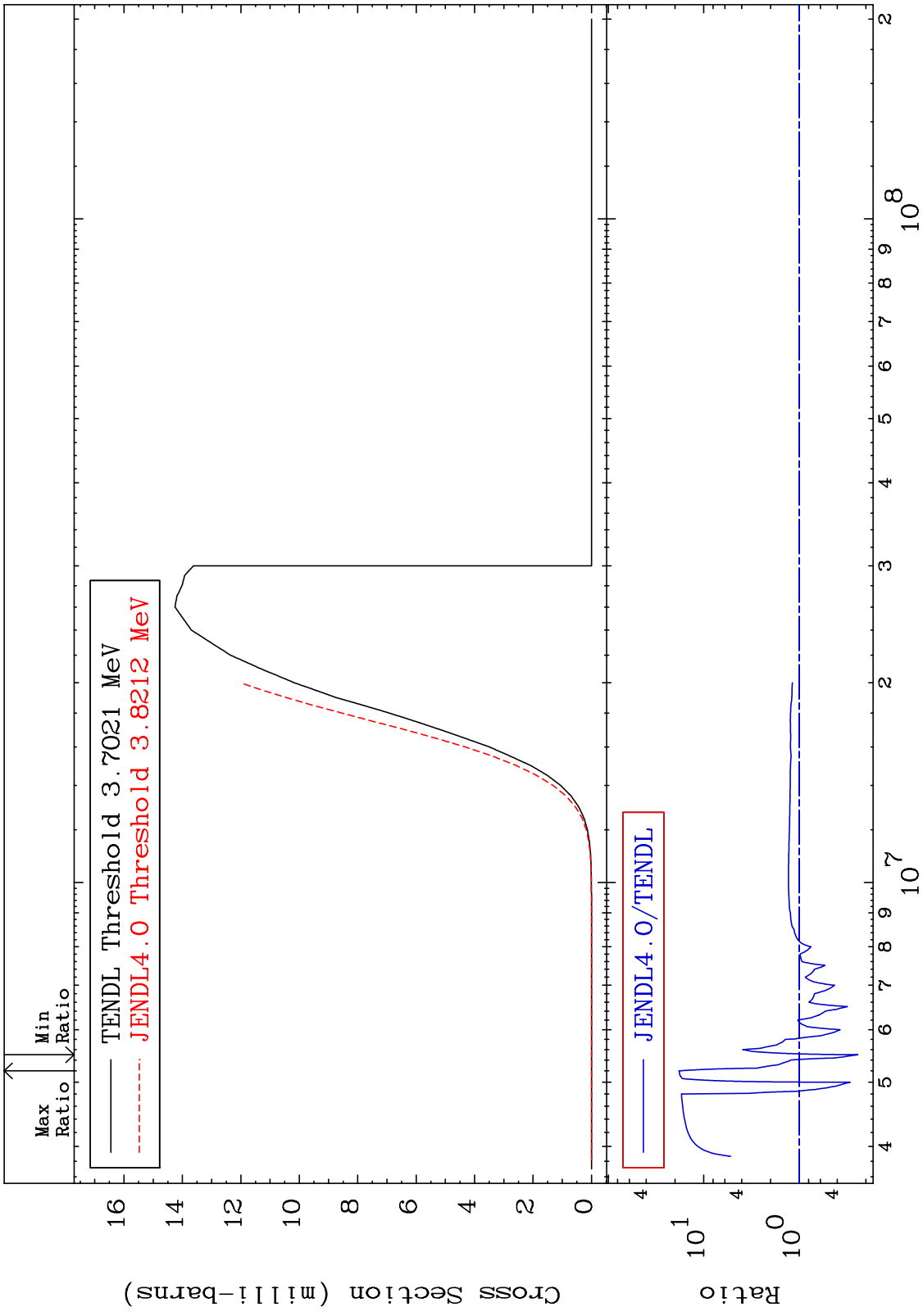
MAT 6449

Dpa disappearance (mt102 -120)
Cross Section

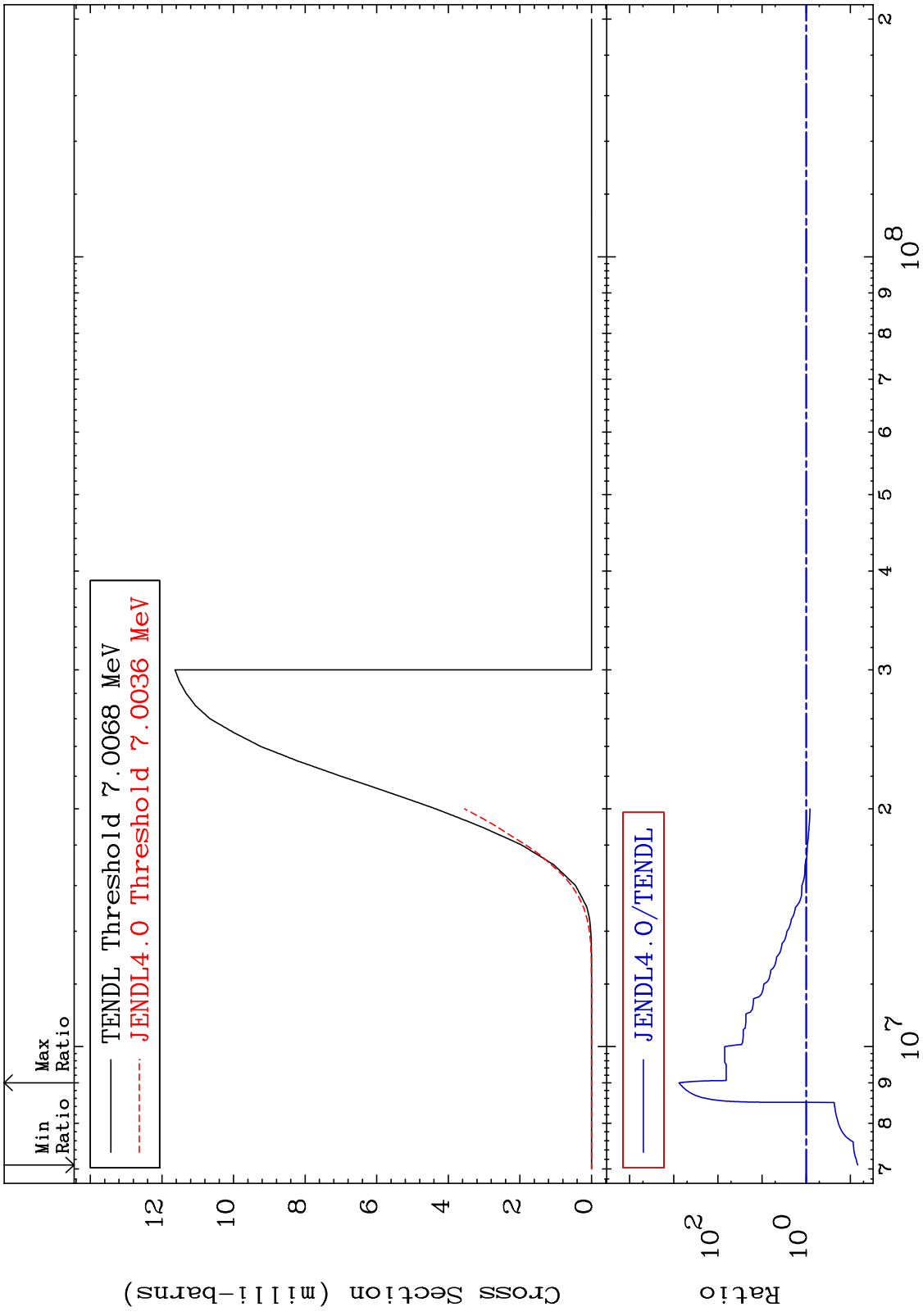
64-Gd-160
-34.47 To 9999. %



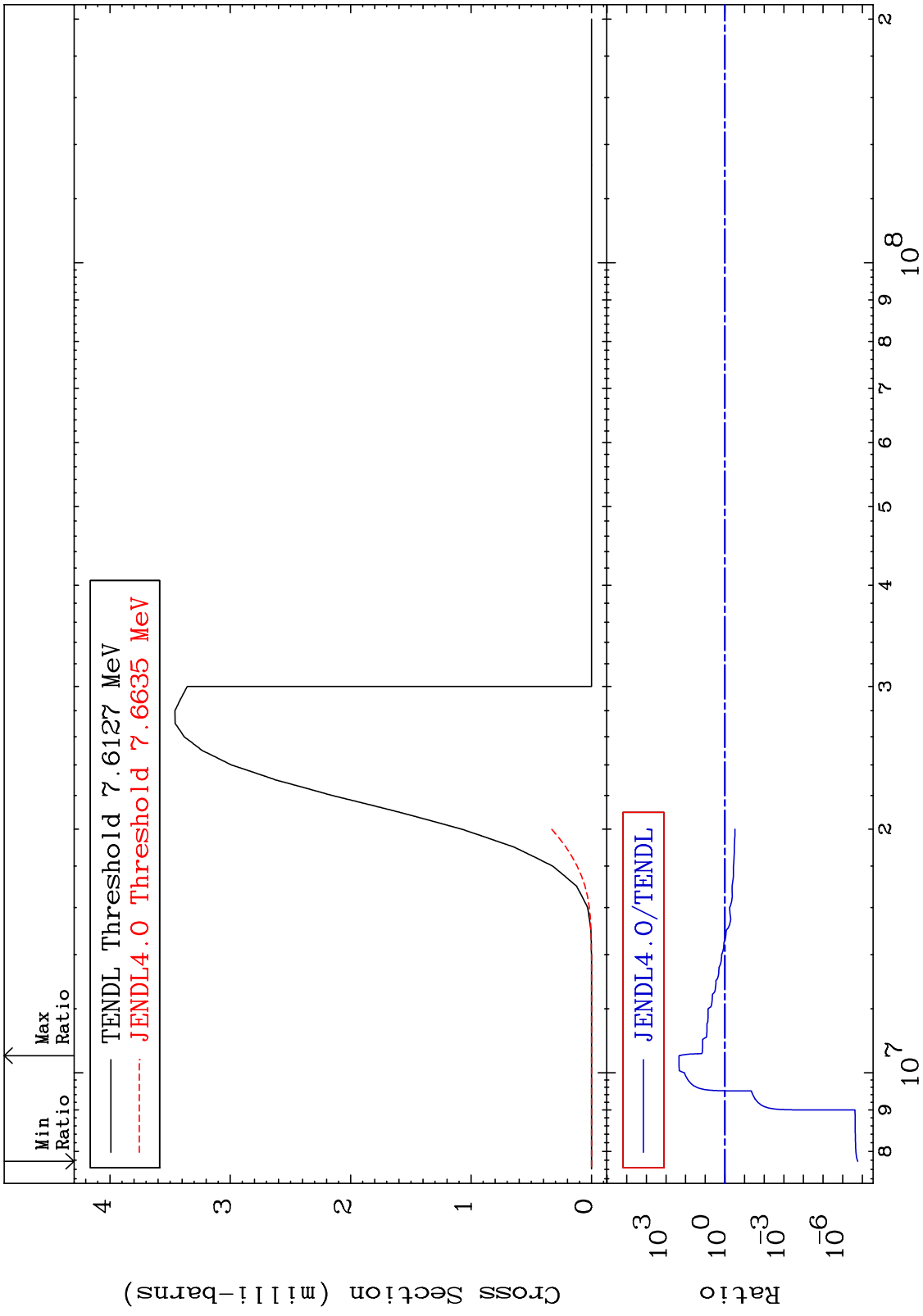
MAT 6449 (n,p) Cross Section 64-Gd-160
-75.66 To 1715. %



40 64-Gd-160



MAT 6449 (n,t) 64-Gd-160
 Cross Section -100.0 To 9999. %



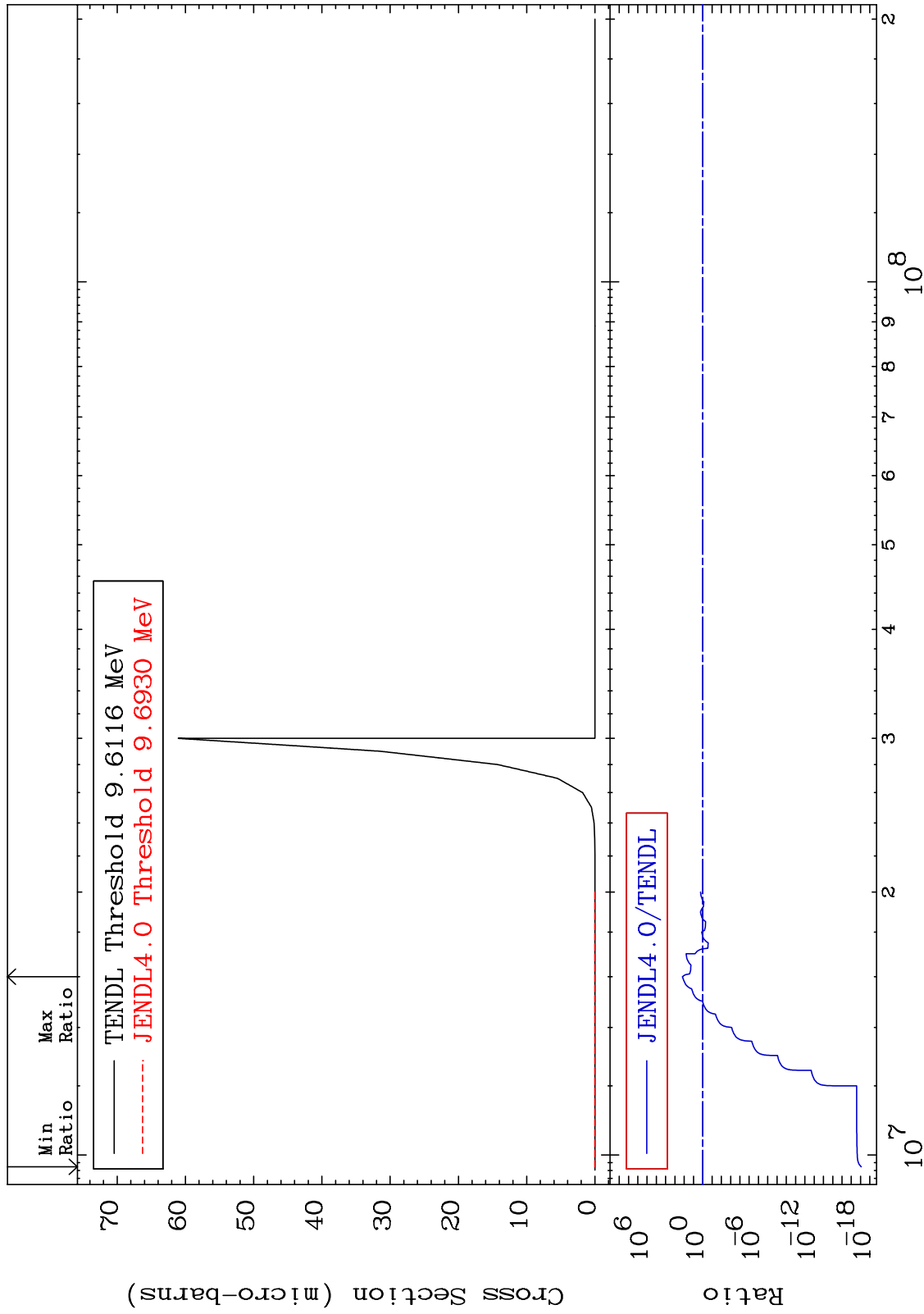
MAT 6449

(n, He-3)

64-Gd-160

Cross Section

-100.0 To 9999. %

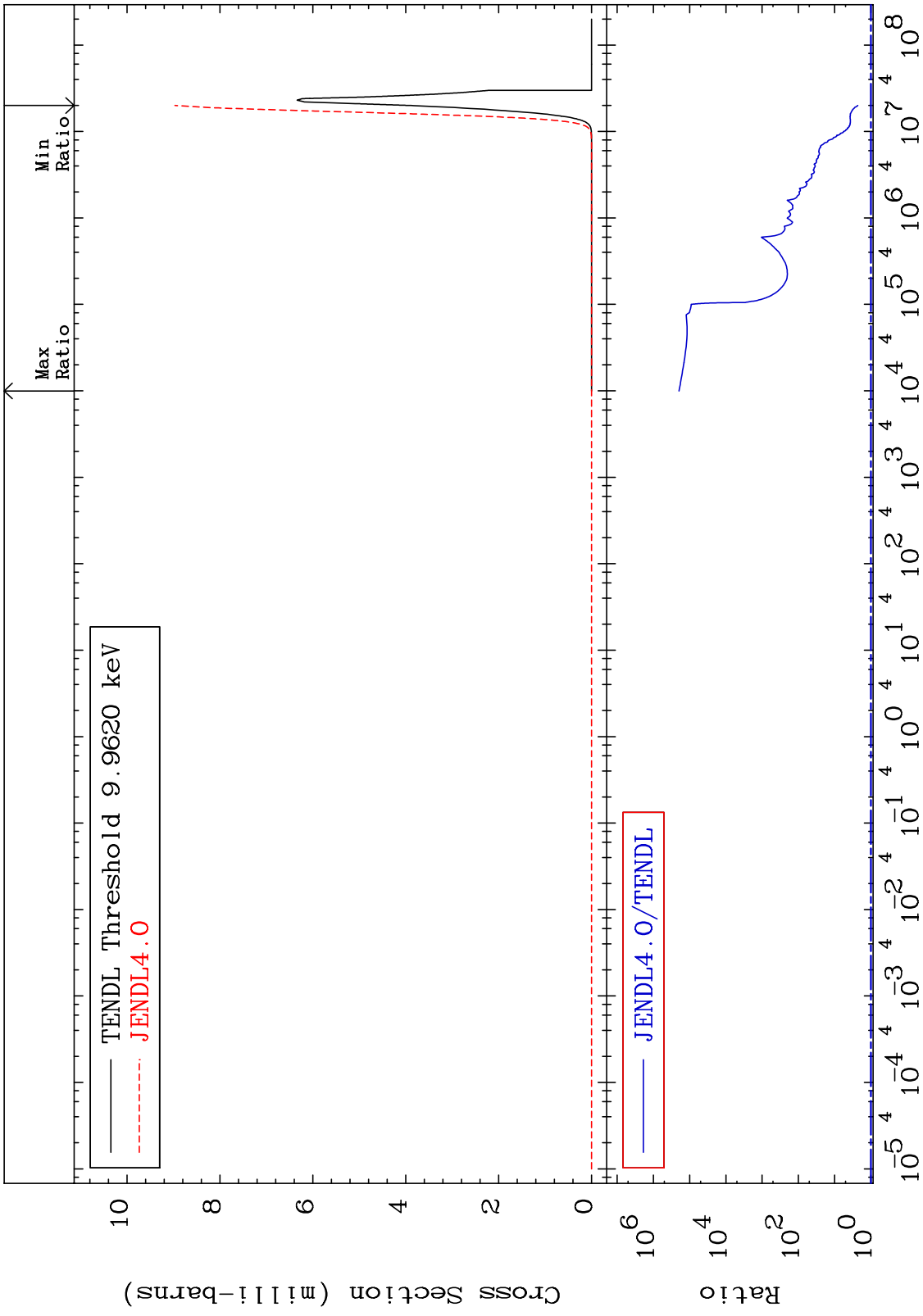


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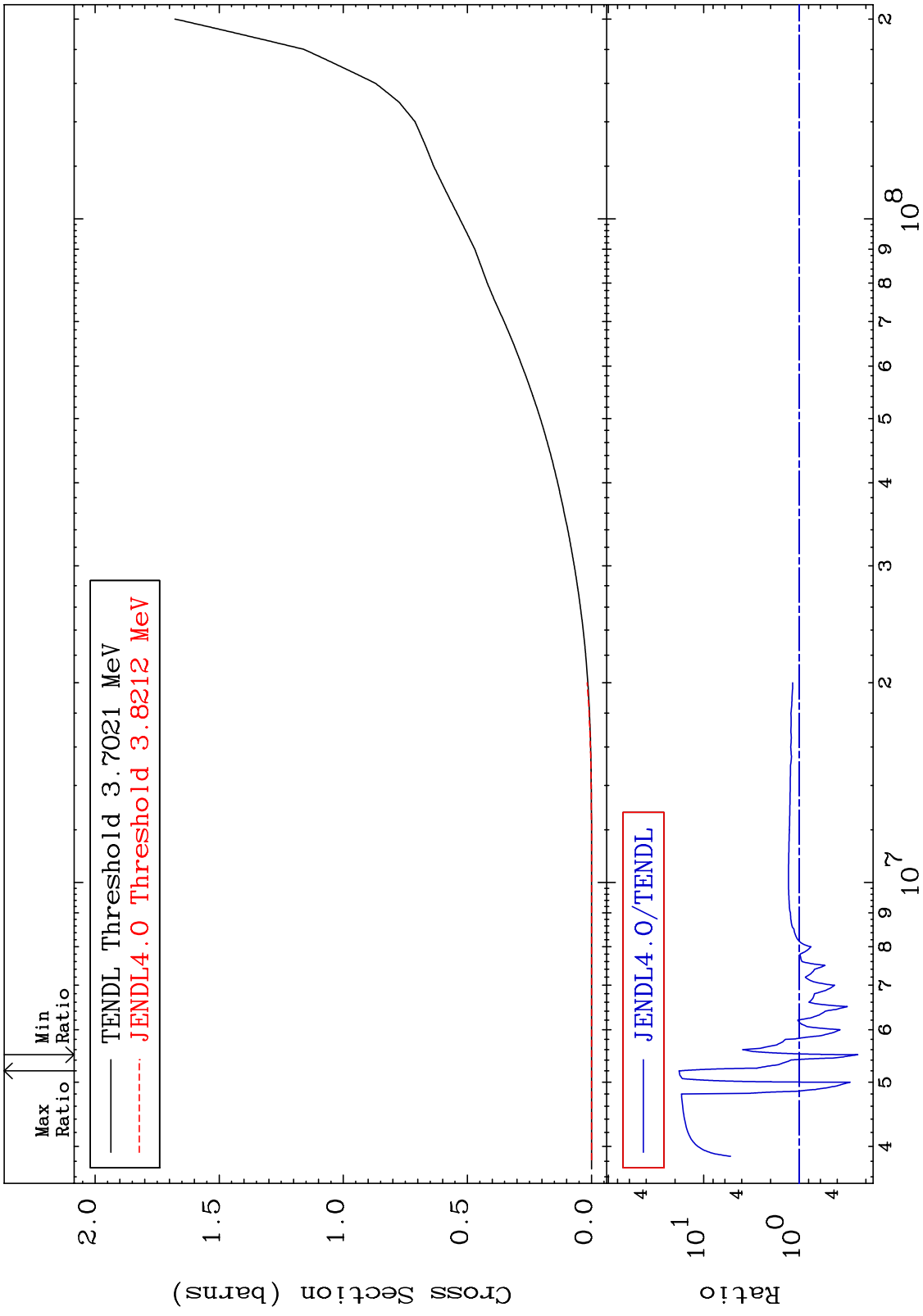
Incident Energy (eV)

64-Gd-160

MAT 6449 (n, α) Cross Section 64-Gd-160
 129.6 To 9999. %



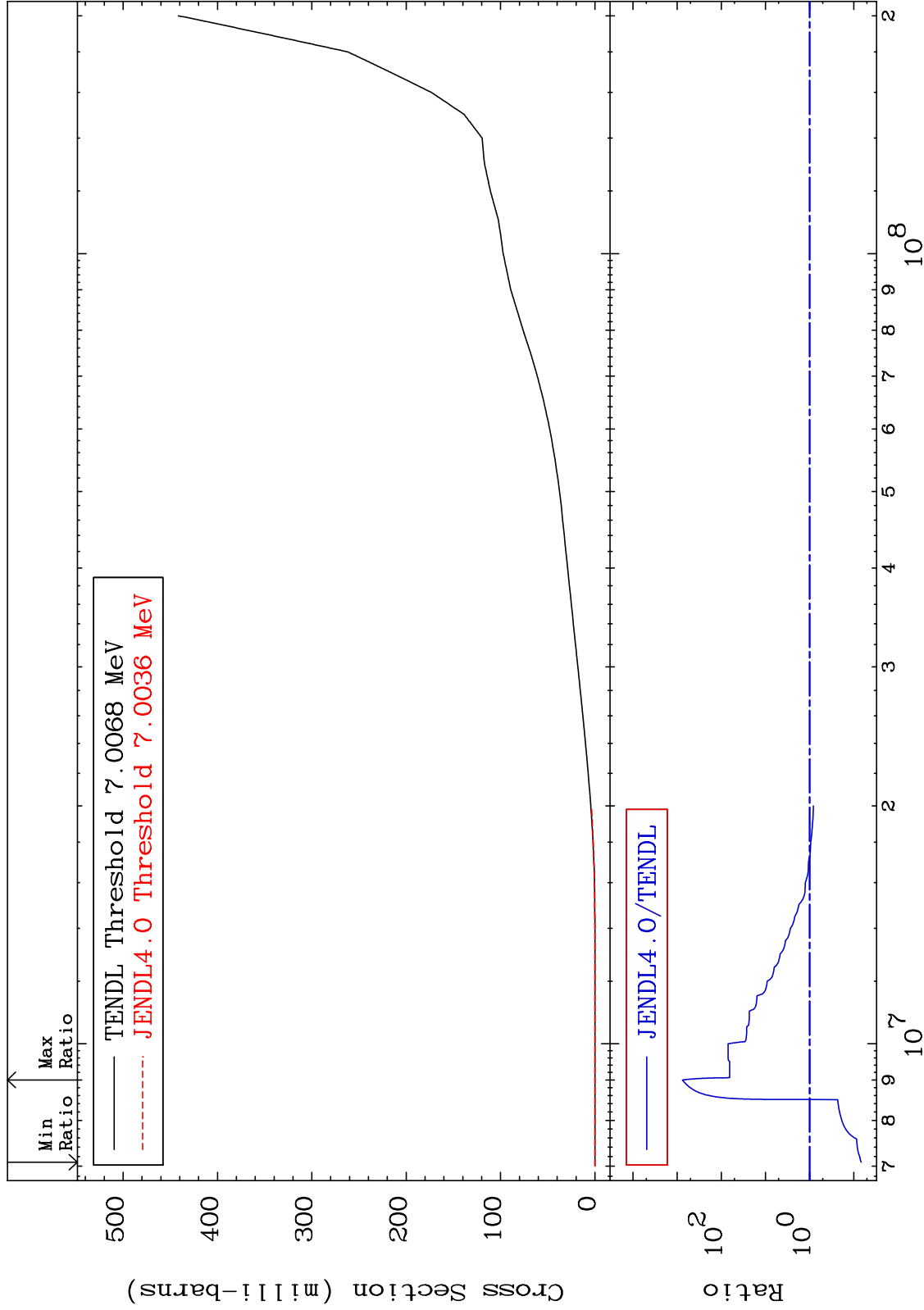
MAT 6449 Hydrogen Production Cross Section 64-Gd-160 -75.66 To 1715. %



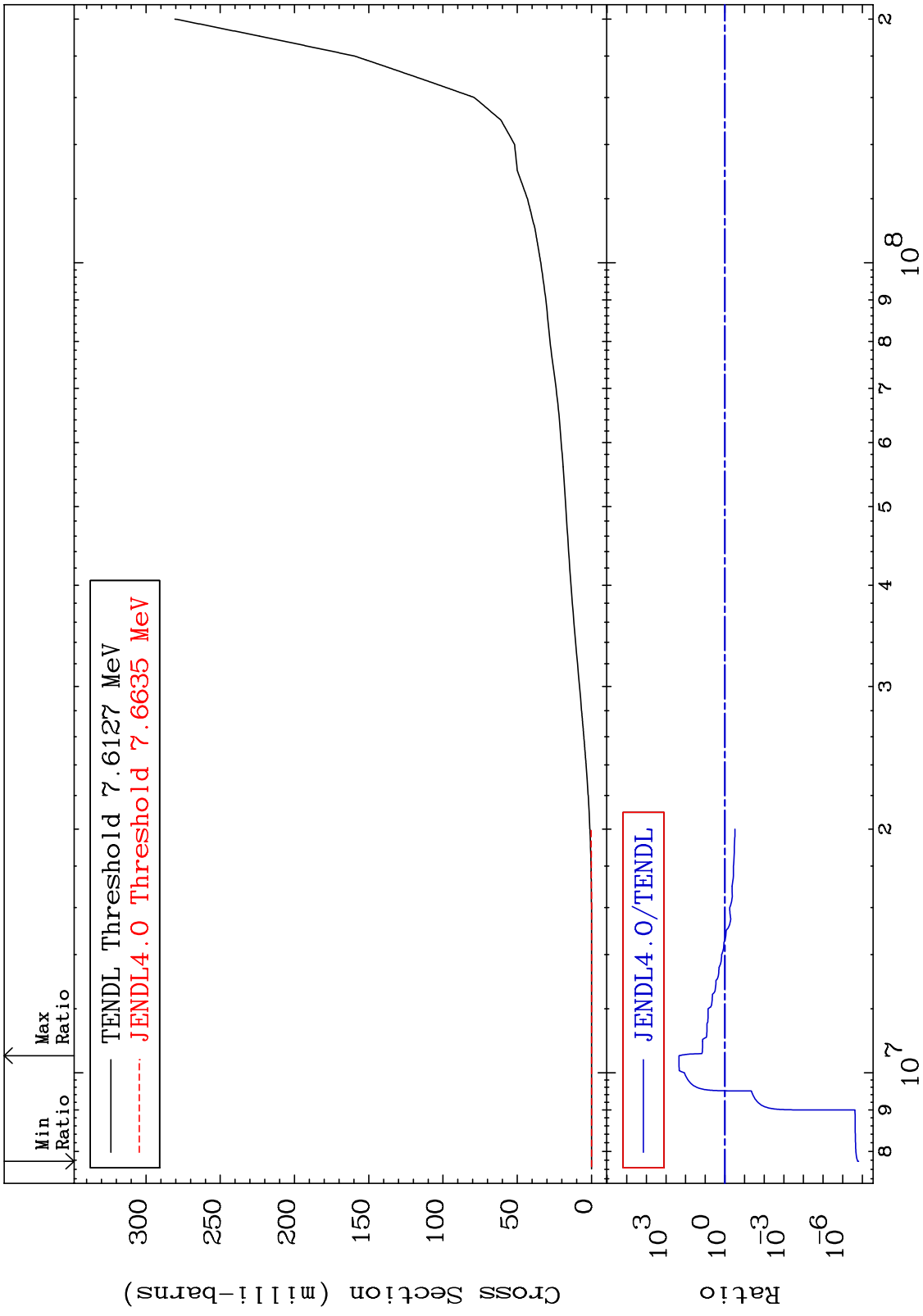
MAT 6449

Deuterium Production
Cross Section

64-Gd-160
-93.27 To 9999. %



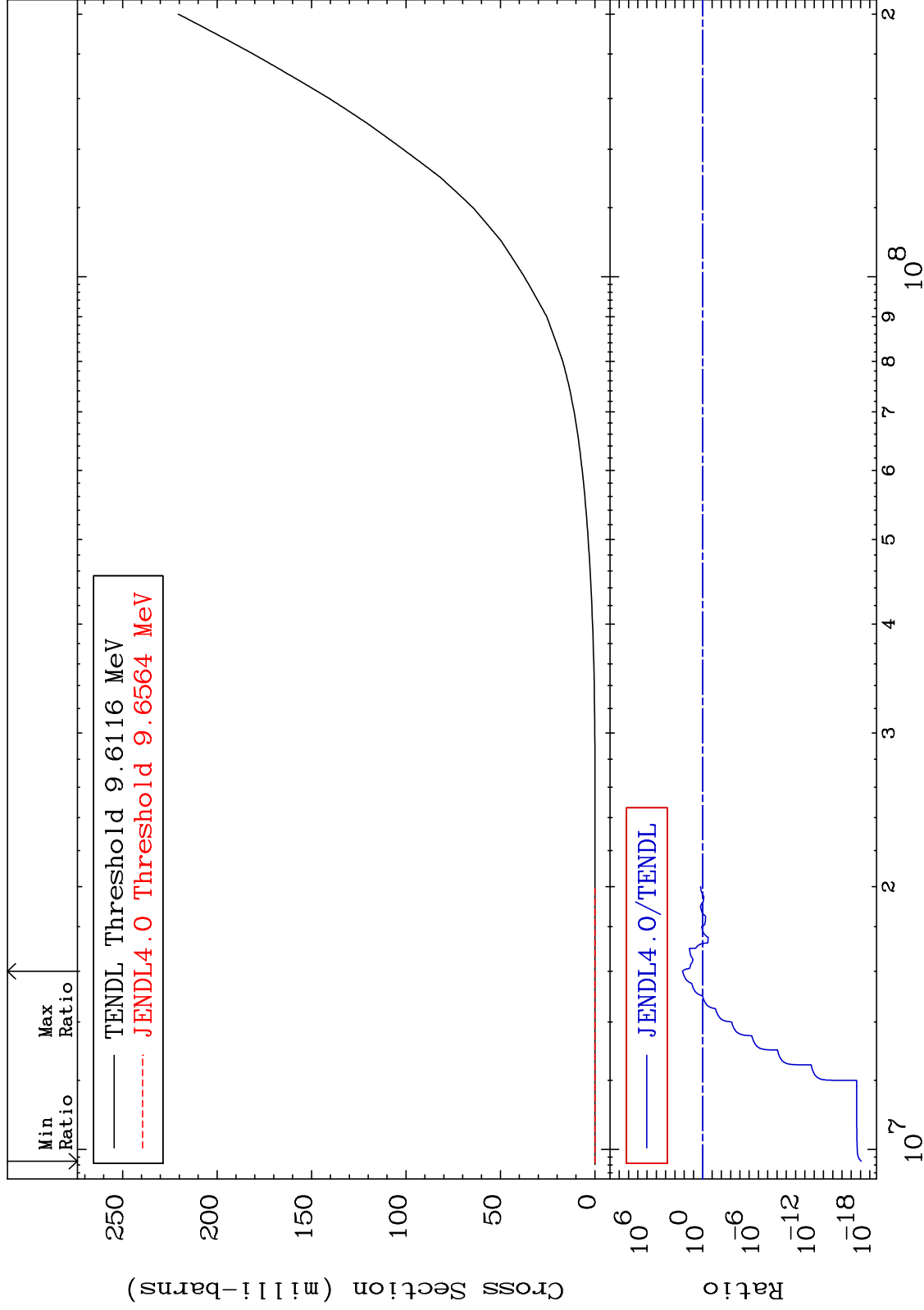
MAT 6449 Tritium Production Cross Section 64-Gd-160 -100.0 To 9999. %



MAT 6449

He-3 Production
Cross Section

64-Gd-160
-100.0 To 9999. %



48

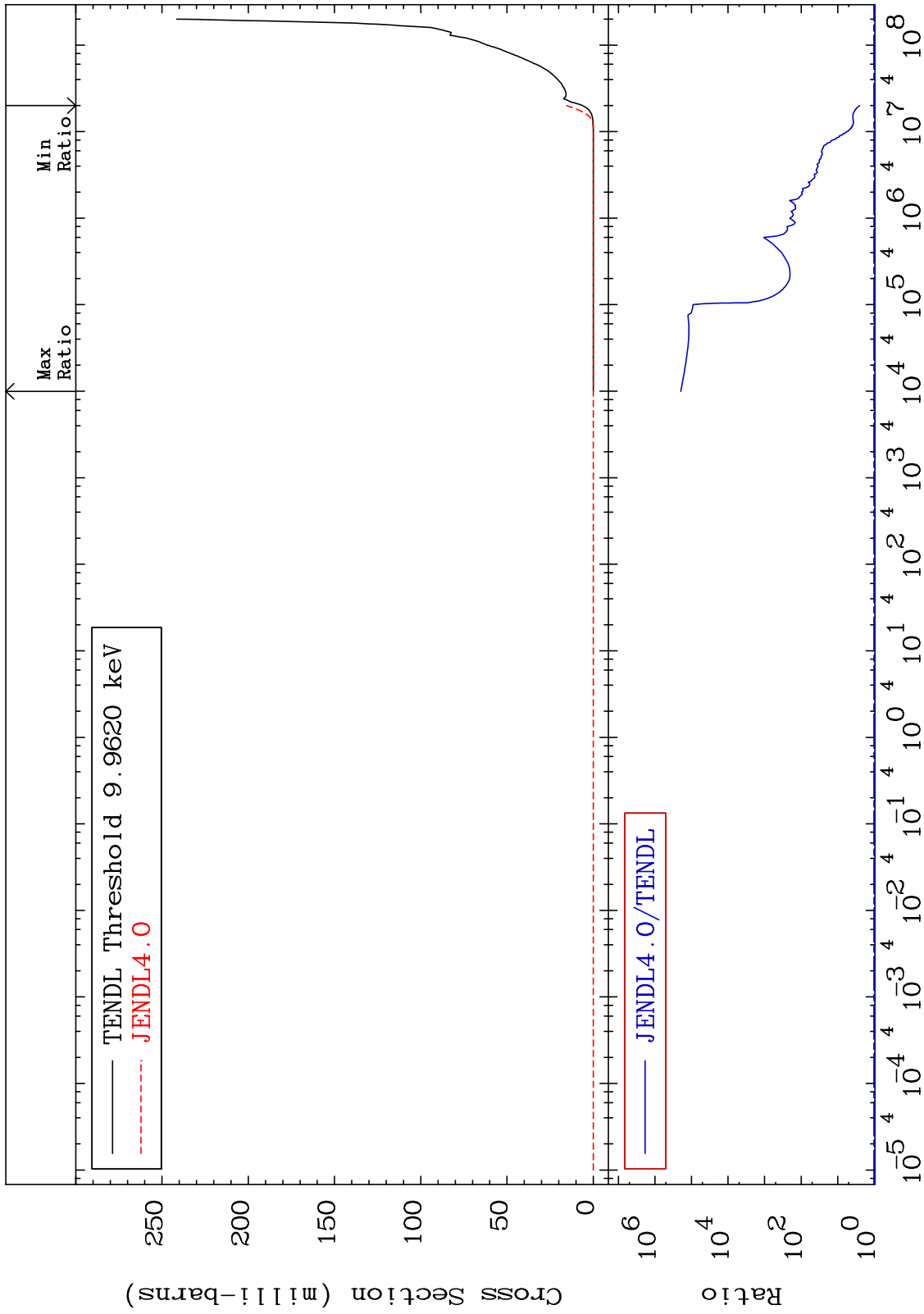
Incident Energy (eV)

64-Gd-160

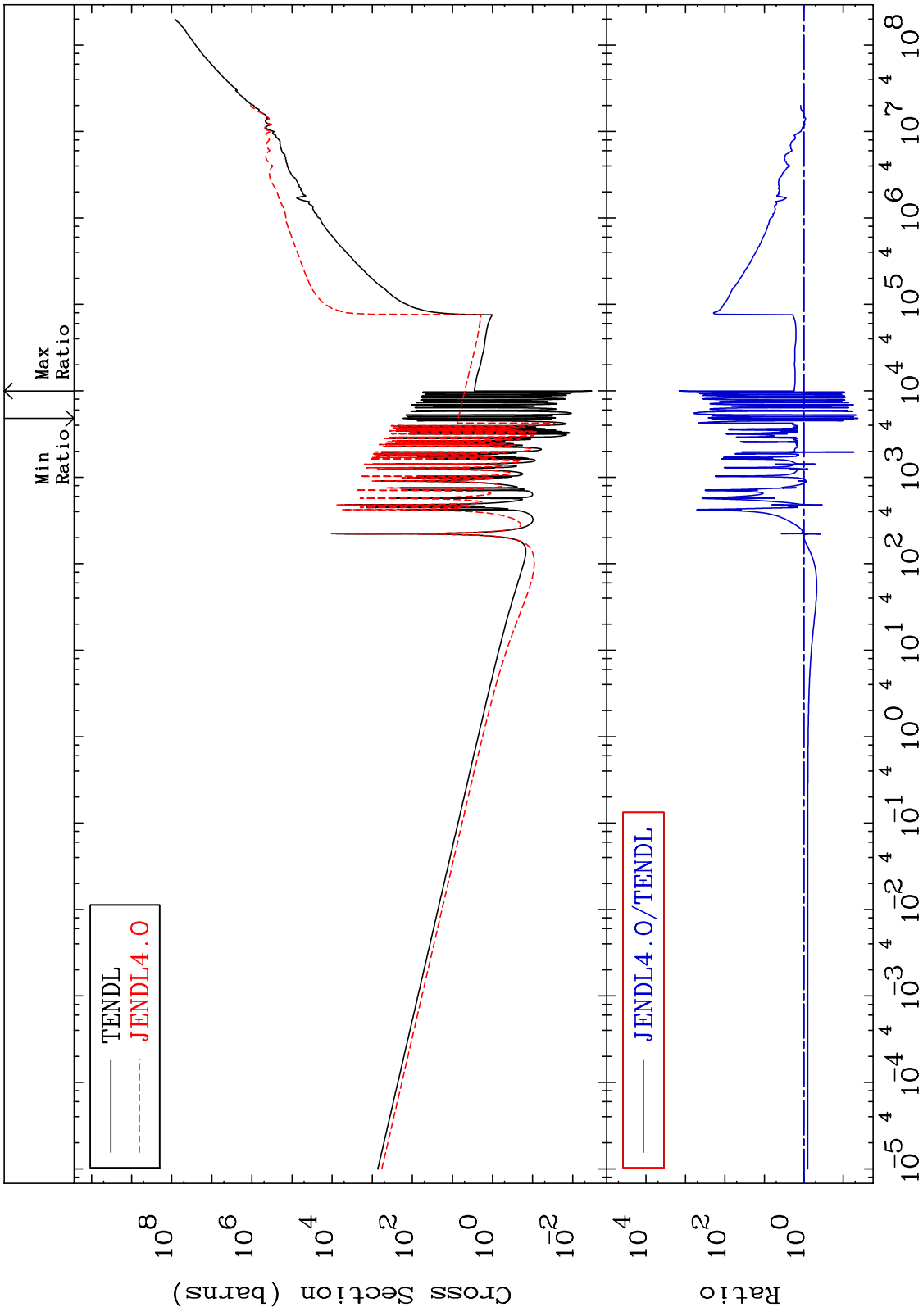
MAT 6449

He-4 Production
Cross Section

64-Gd-160
150.7 To 9999. %

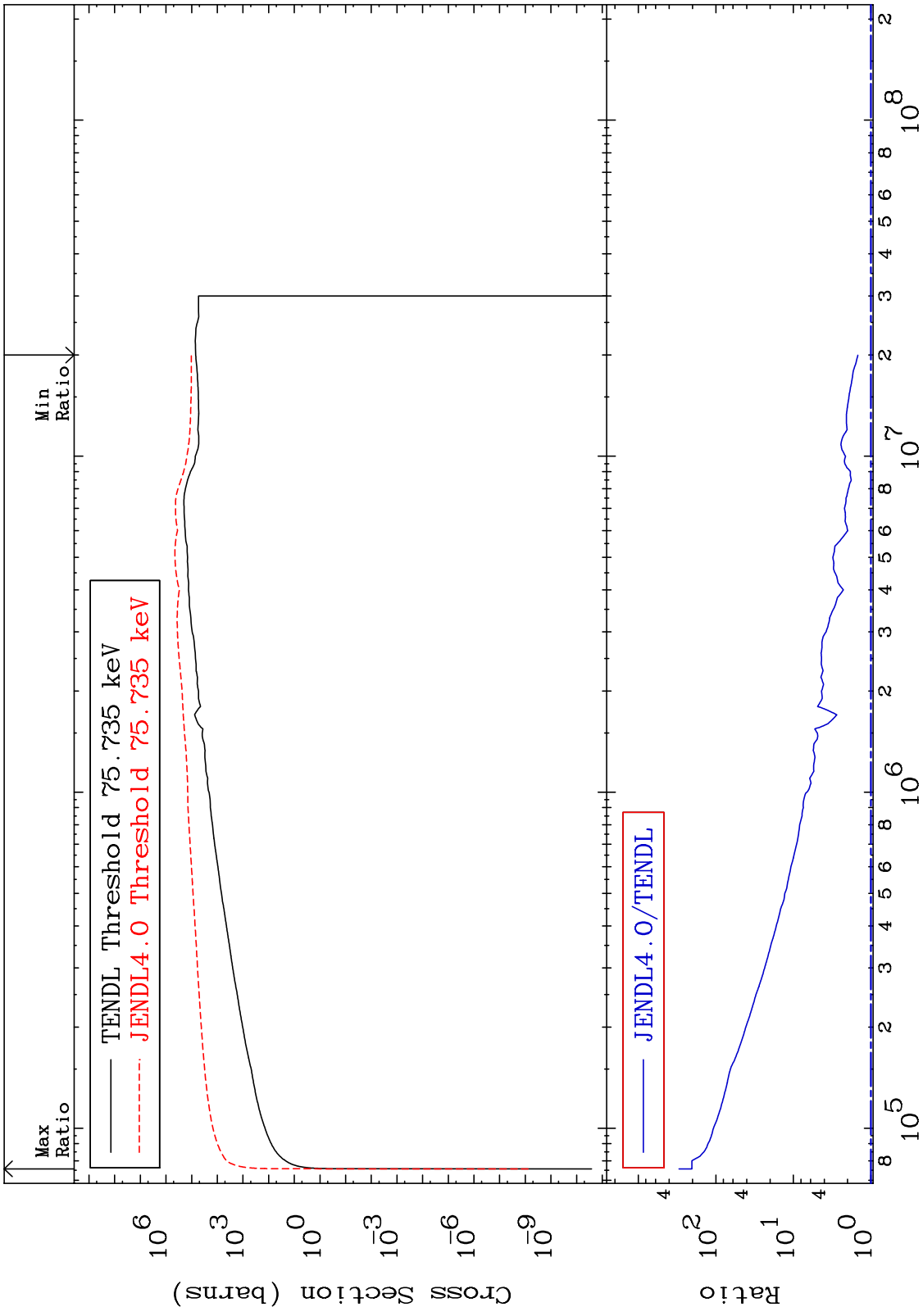


MAT 6449 Kerma non-elastic (all but mt2) 64-Gd-160
 Cross Section -95.74 To 9999. %



52 Incident Energy (eV) 64-Gd-160

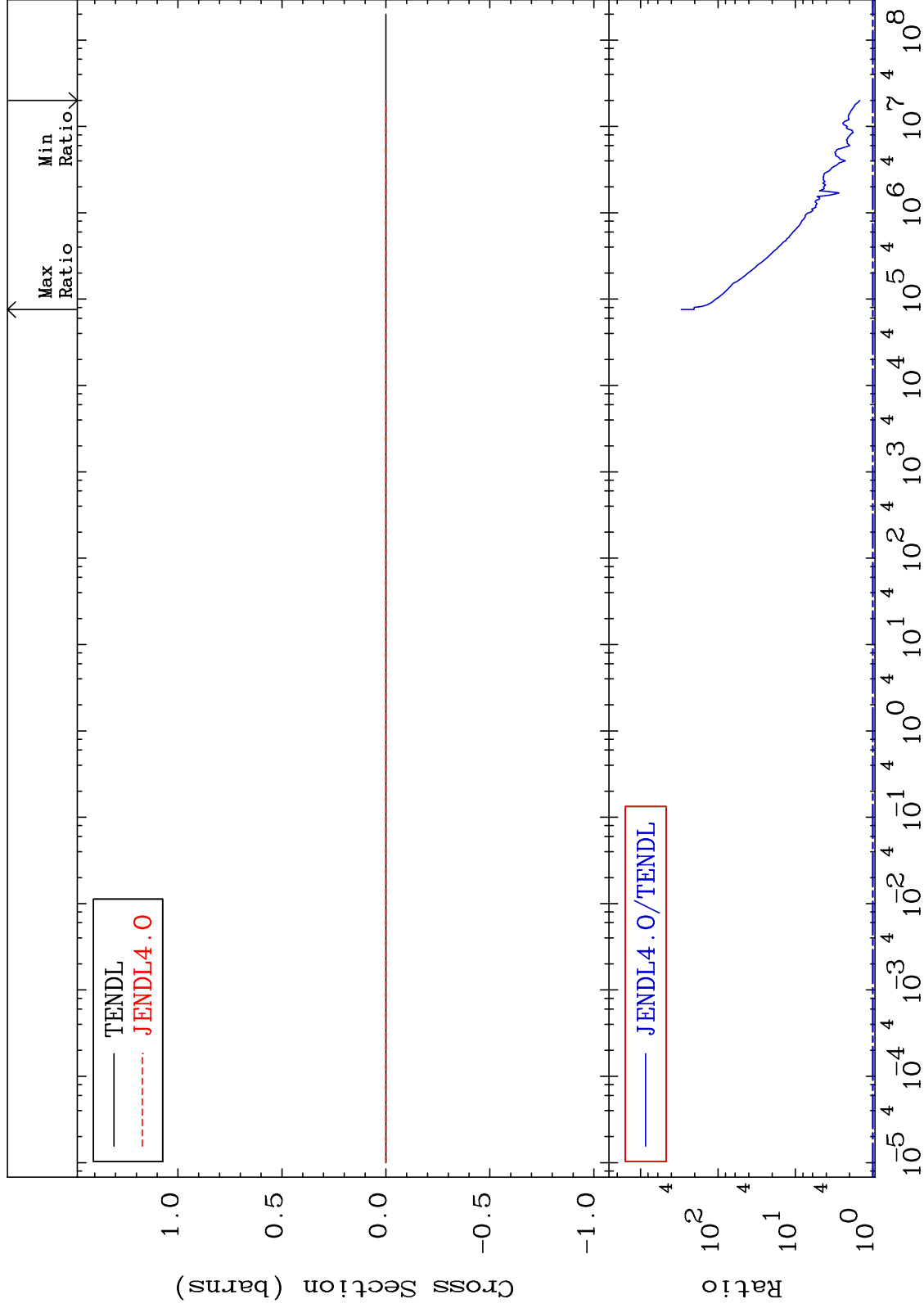
MAT 6449 Kerma inelastic (mt51-91) 64-Gd-160
 Cross Section 47.58 To 9999. %



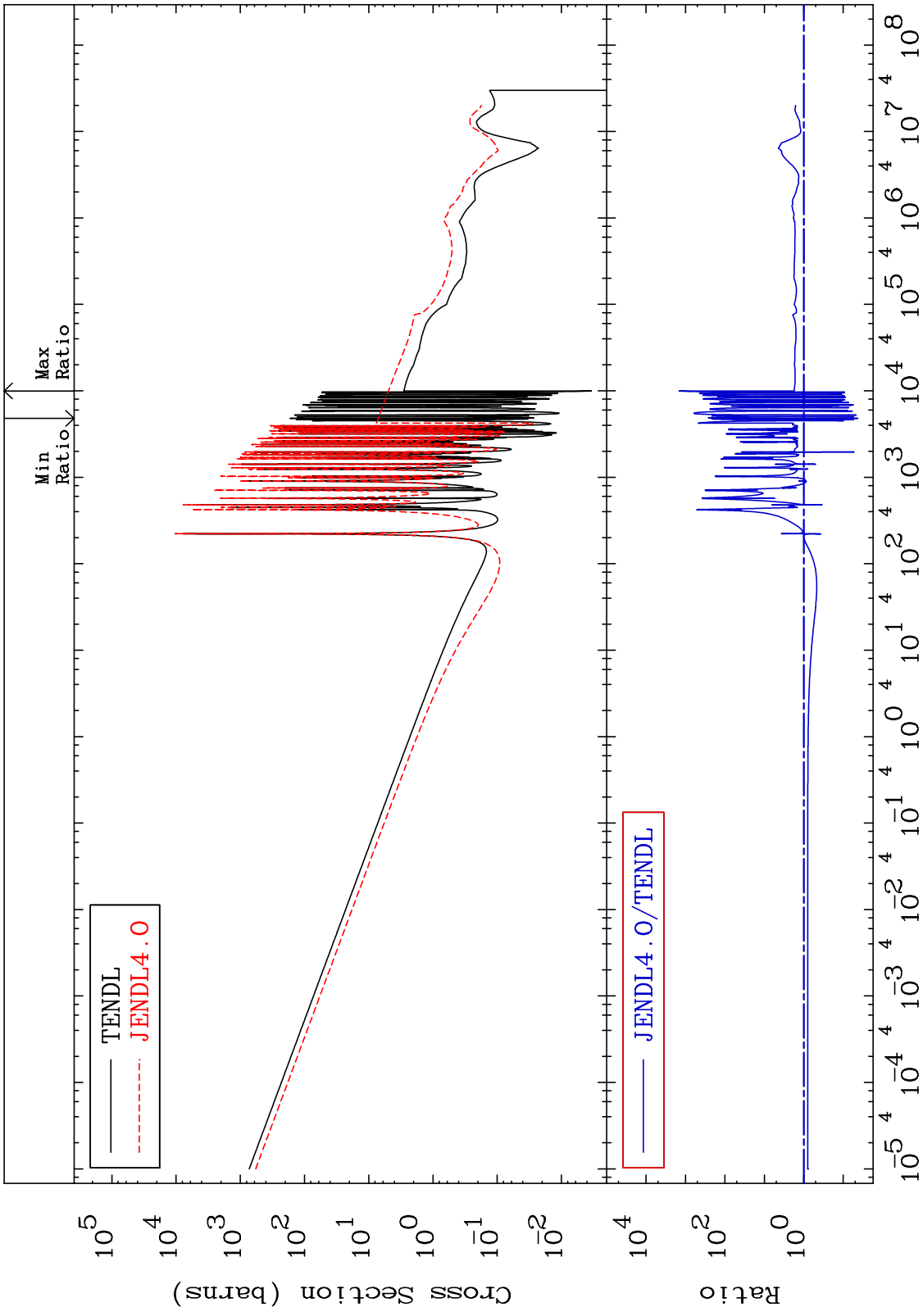
MAT 6449

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

64-Gd-160
47.58 To 9999. %

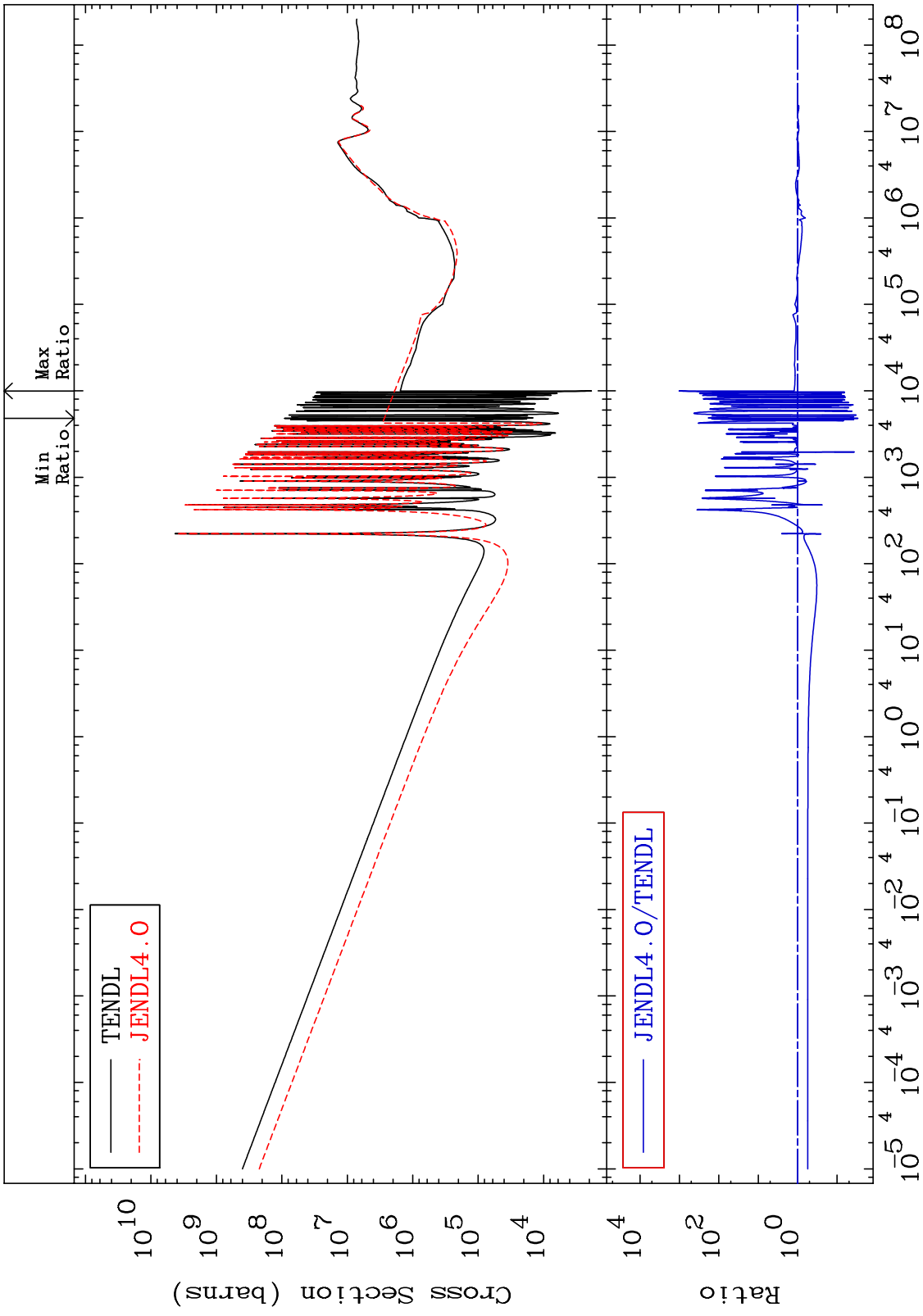


MAT 6449 Kerma capture (mt102) 64-Gd-160
 Cross Section -95.74 To 9999. %

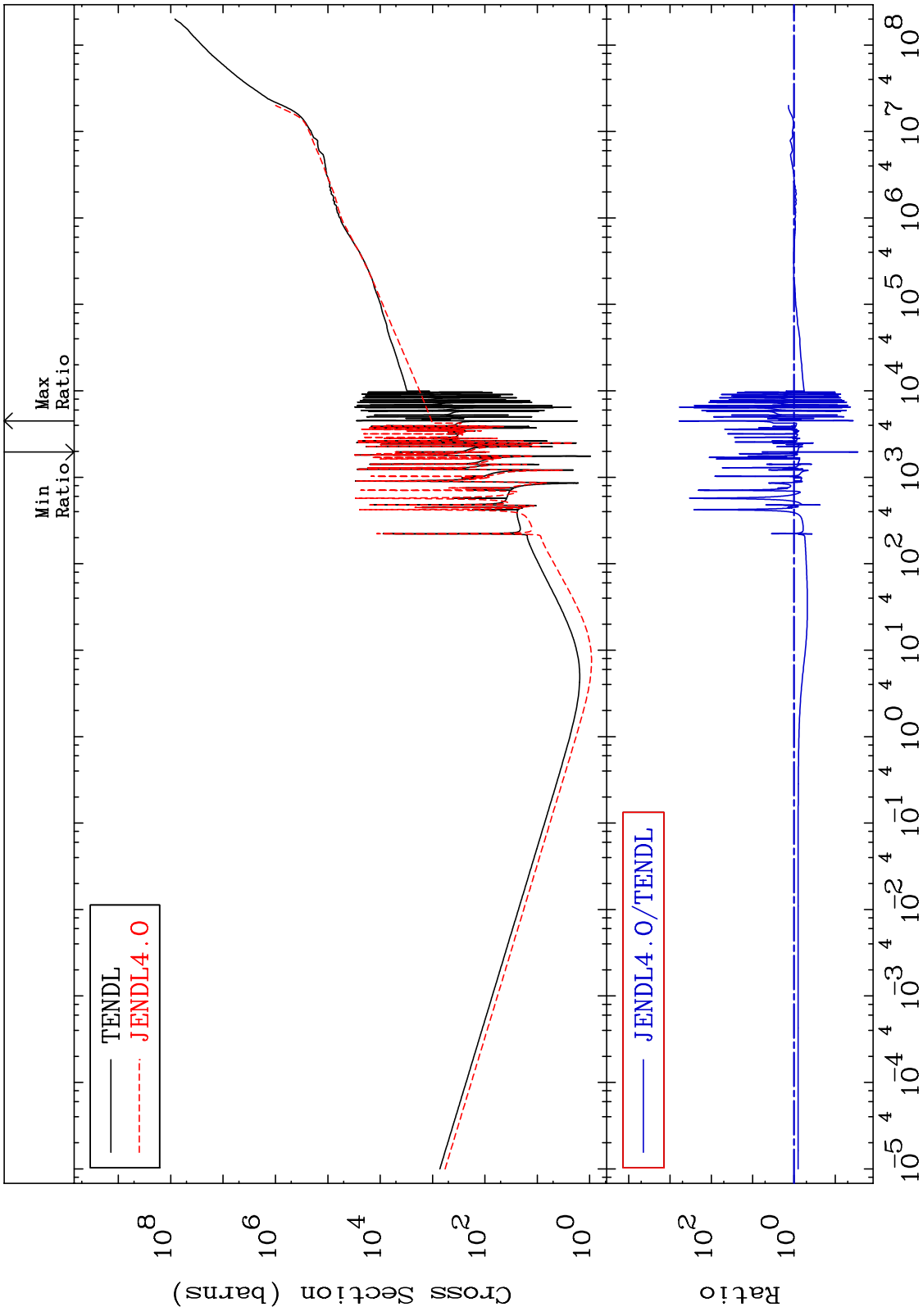


Incident Energy (eV) 64-Gd-160

MAT 6449 Total photon (eV-barns) 64-Gd-160
 Cross Section -97.02 To 9999. %



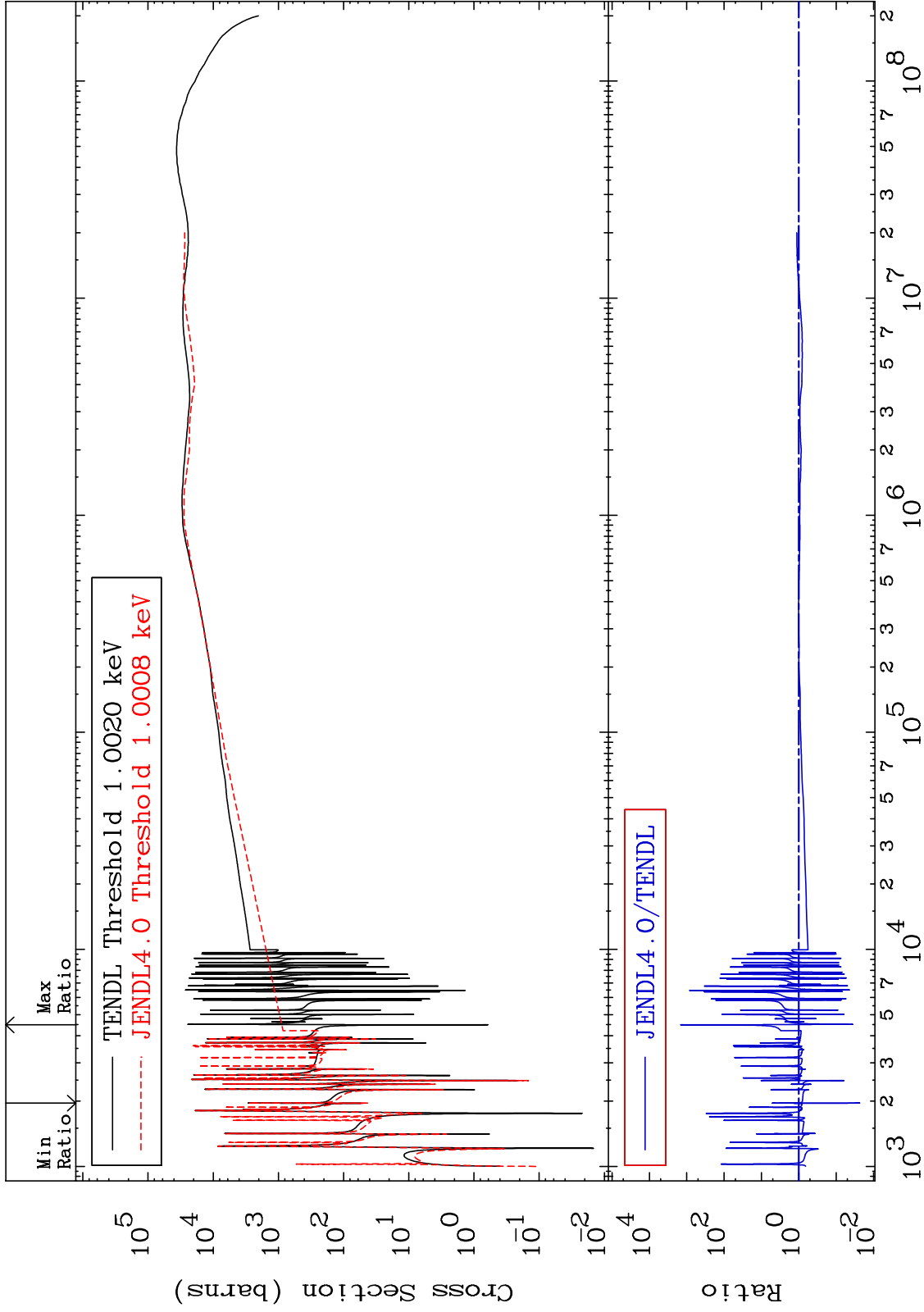
MAT 6449 Total kinematic kerma (high limit) 64-Gd-160
 Cross Section -97.15 To 9999. %



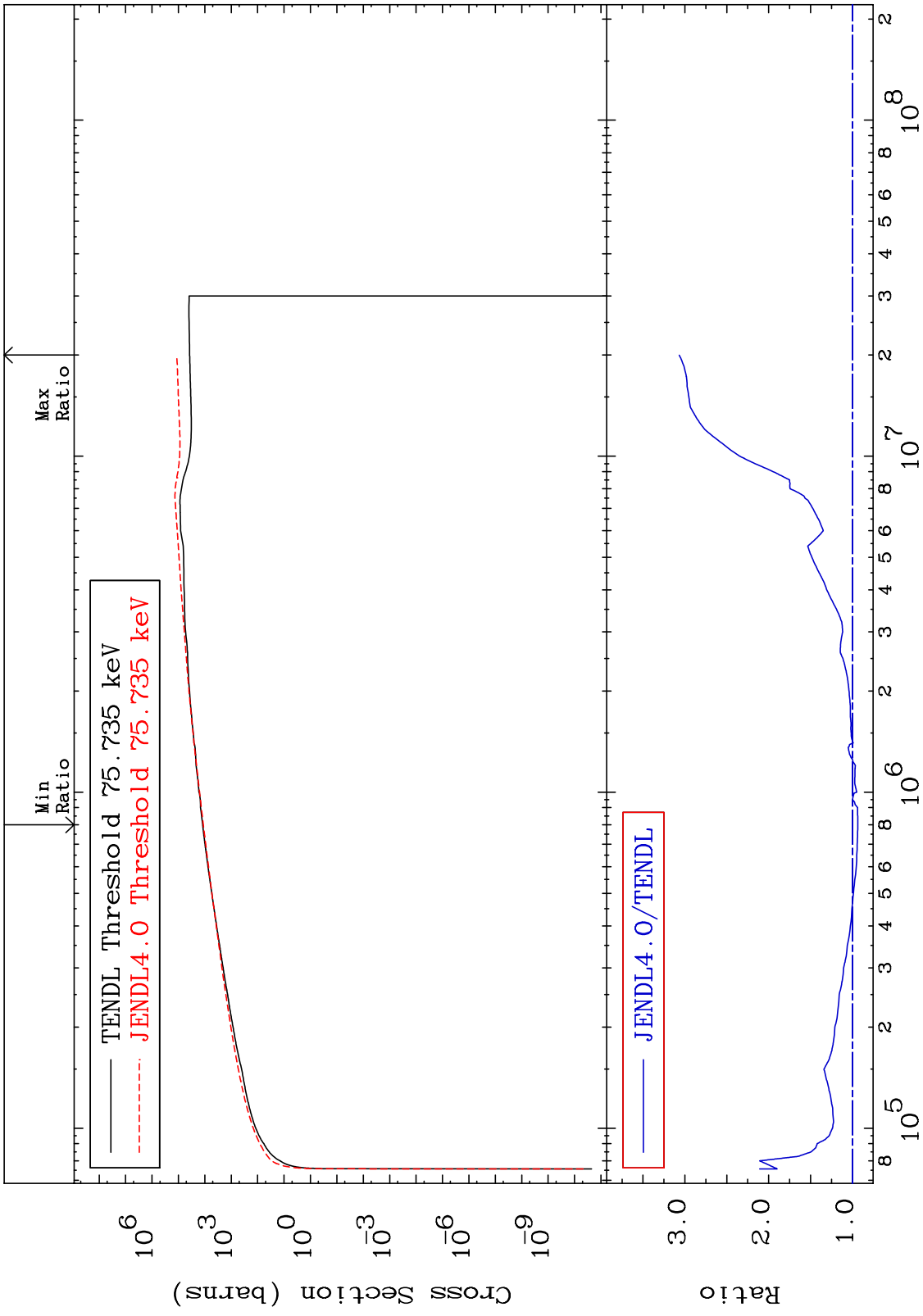
MAT 6449

Dpa elastic (mt2)
Cross Section

64-Gd-160
-97.65 To 9999. %



MAT 6449 Dpa inelastic (mt51-91) 64-Gd-160
Cross Section -6.424 To 207.0 %



60 Incident Energy (eV) 64-Gd-160

MAT 6449 Dpa disappearance (mt102 -120) 64-Gd-160
 Cross Section -94.52 To 9999. %

