

Program Complot
(Version 2018-1)

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

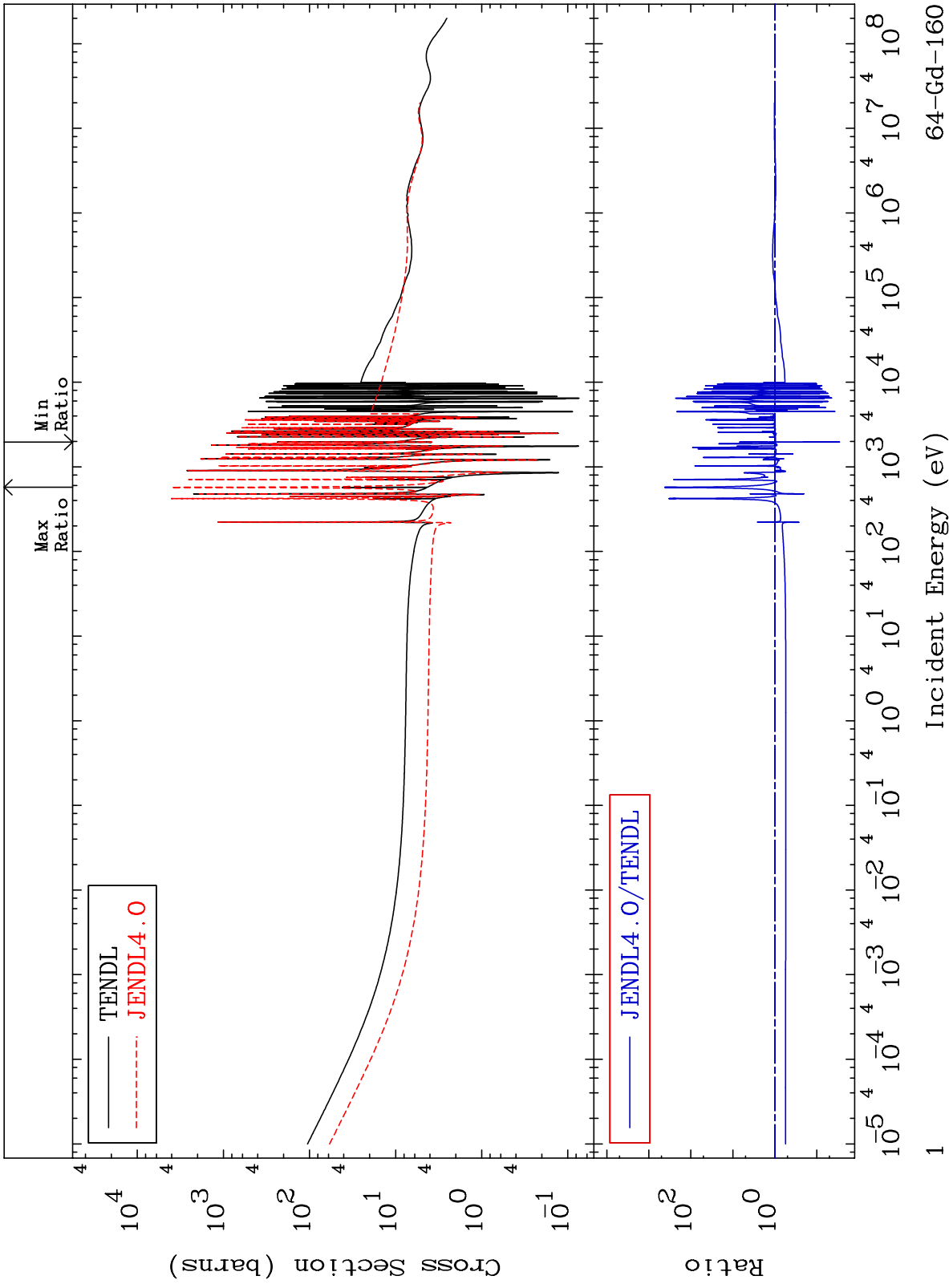
MAT 6449

Total

64-Gd-160

-97.14 To 9999. %

Cross Section



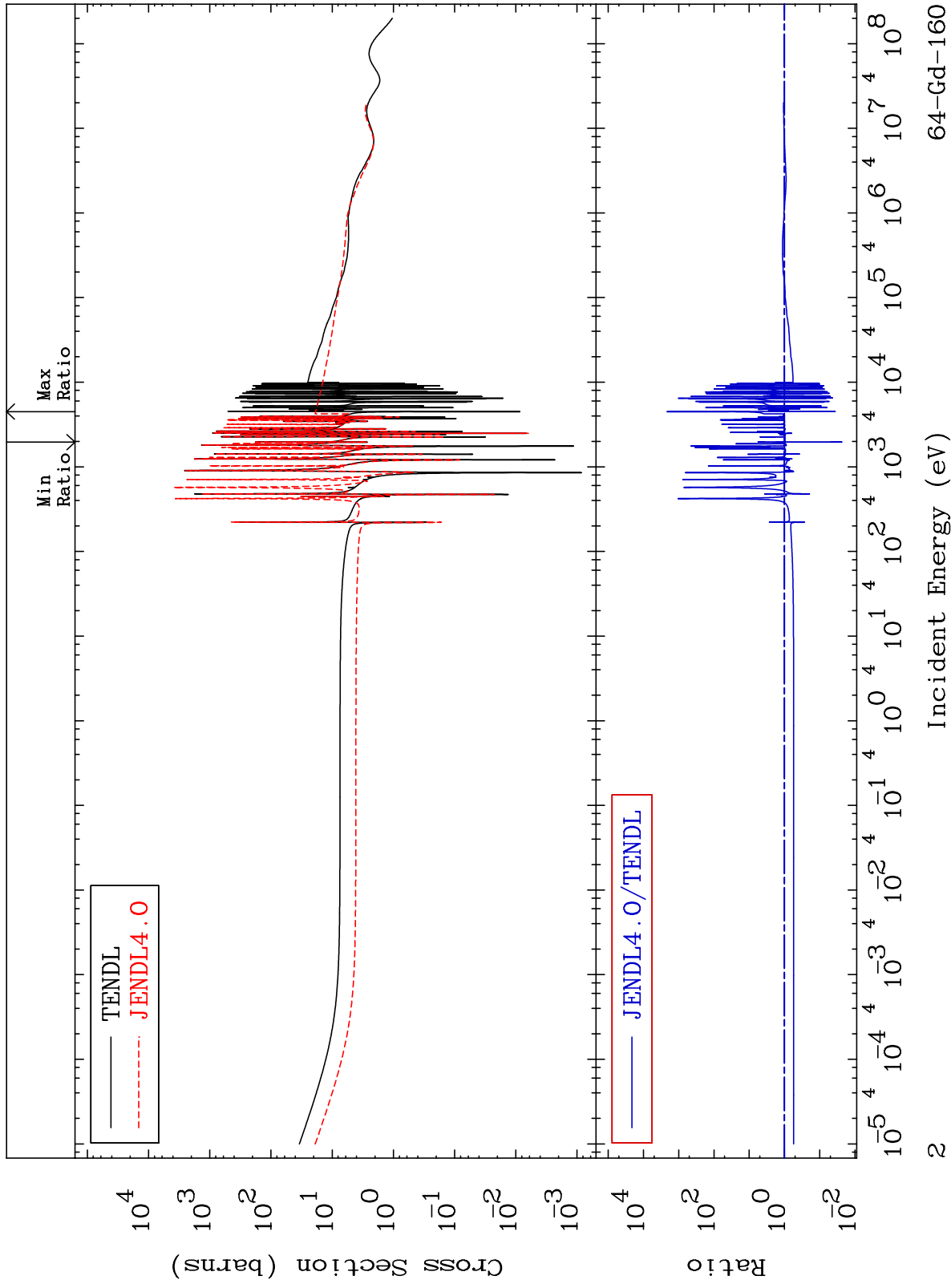
64-Gd-160

Incident Energy (eV)

MAT 6449

Elastic
Cross Section

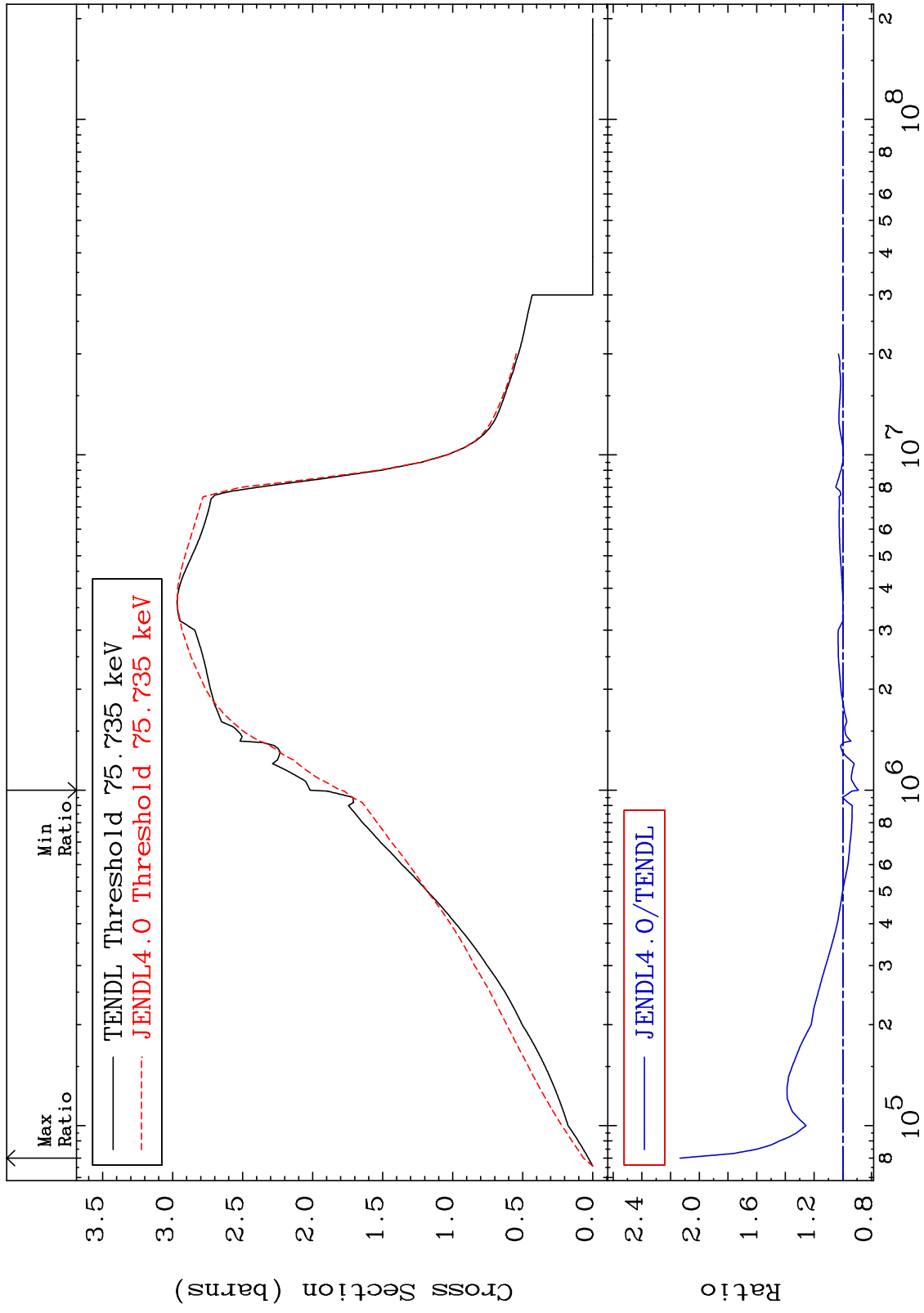
64-Gd-160
-97.63 To 9999. %



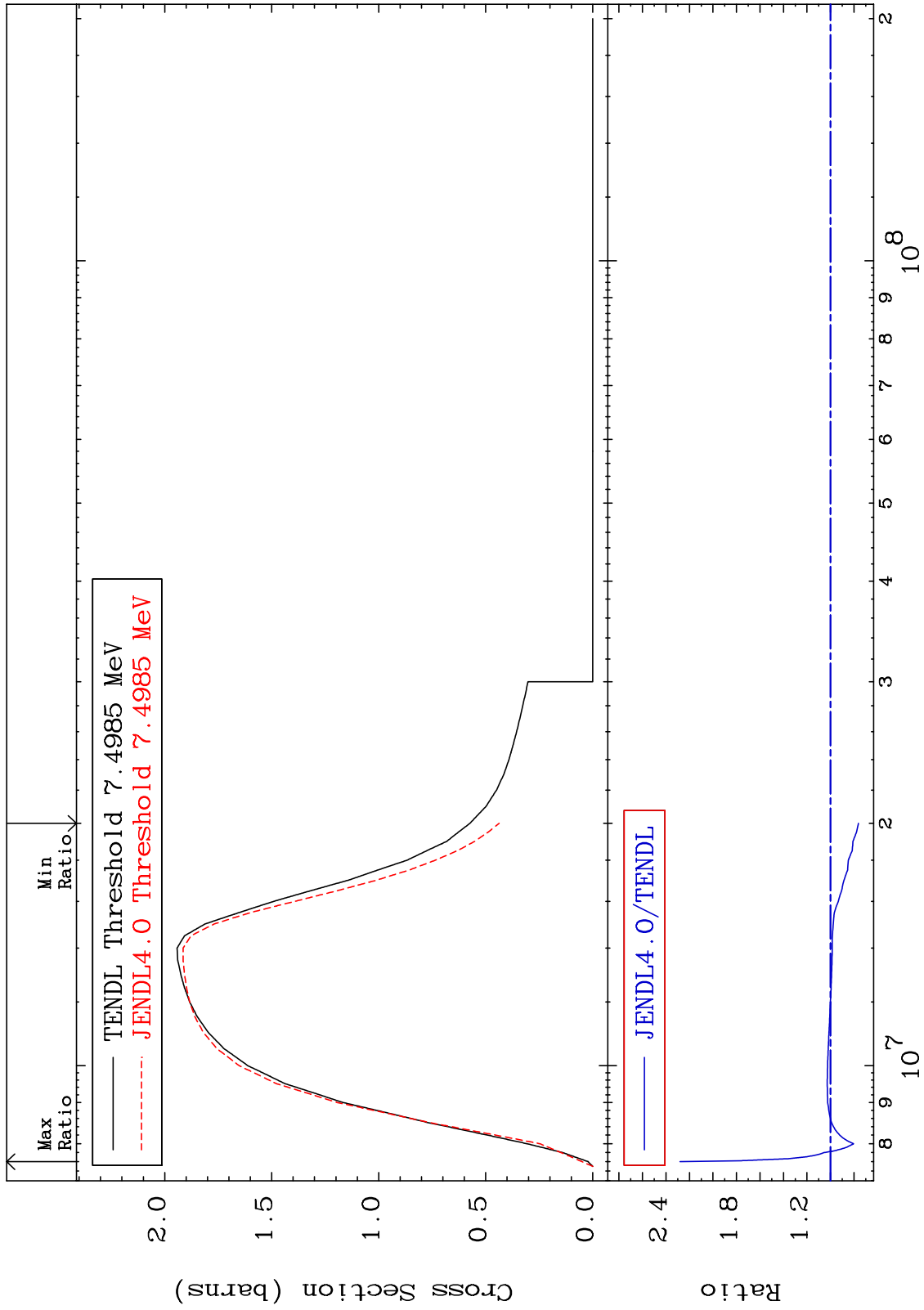
64-Gd-160

Incident Energy (eV)

MAT 6449 Inelastic Cross Section 64-Gd-160 -10.88 To 113.4 %



MAT 6449 (n,2n) Cross Section 64-Gd-160 -23.77 To 128.0 %



4 64-Gd-160

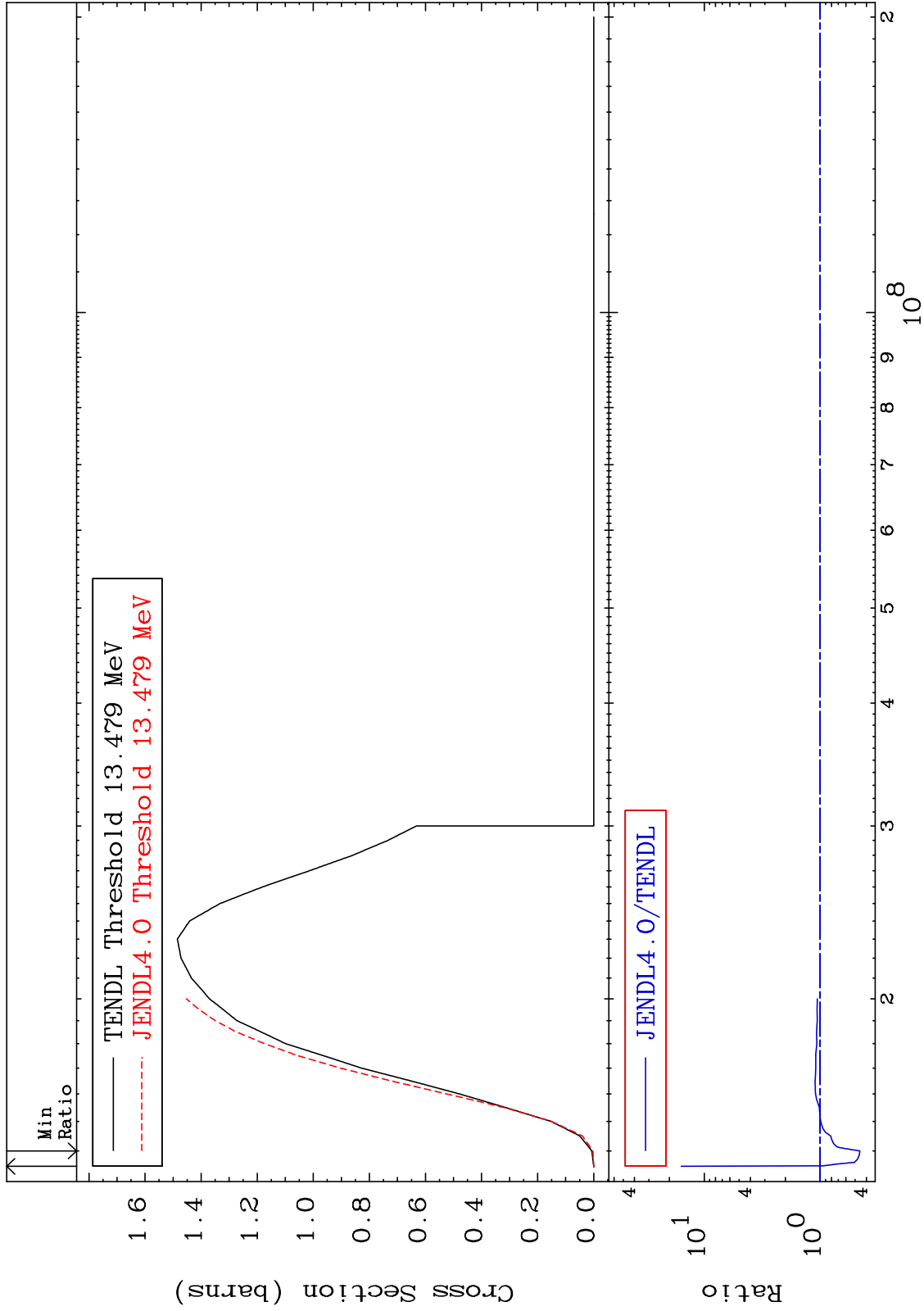
MAT 6449

(n,3n)

64-Gd-160

Cross Section

-54.56 To 1479. %



64-Gd-160

Incident Energy (eV)

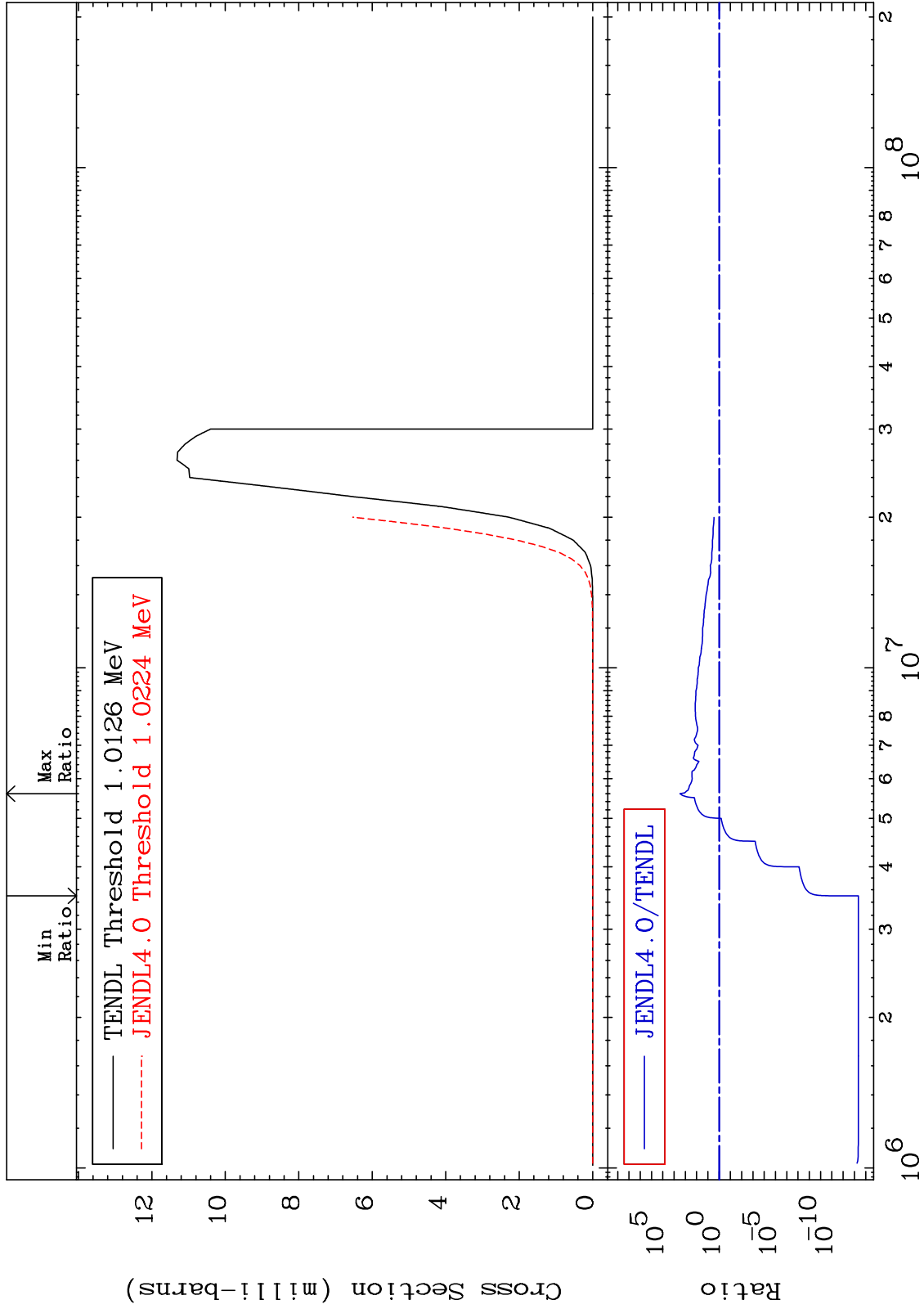
MAT 6449

(n, n') α

64-Gd-160

-100.0 To 9999. %

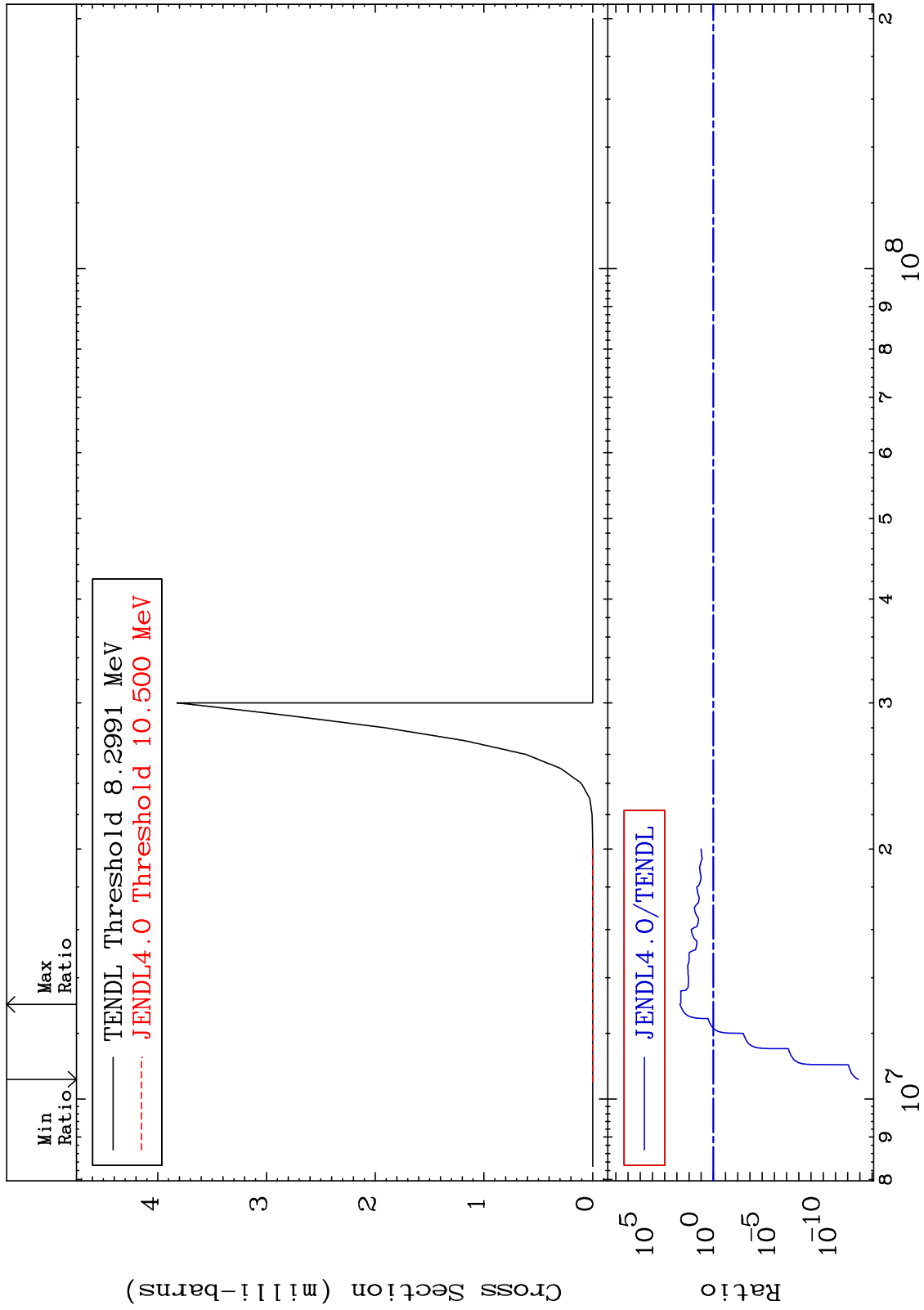
Cross Section



Incident Energy (eV)

64-Gd-160

MAT 6449 (n,2n) α 64-Gd-160
Cross Section -100.0 To 9999. %



64-Gd-160

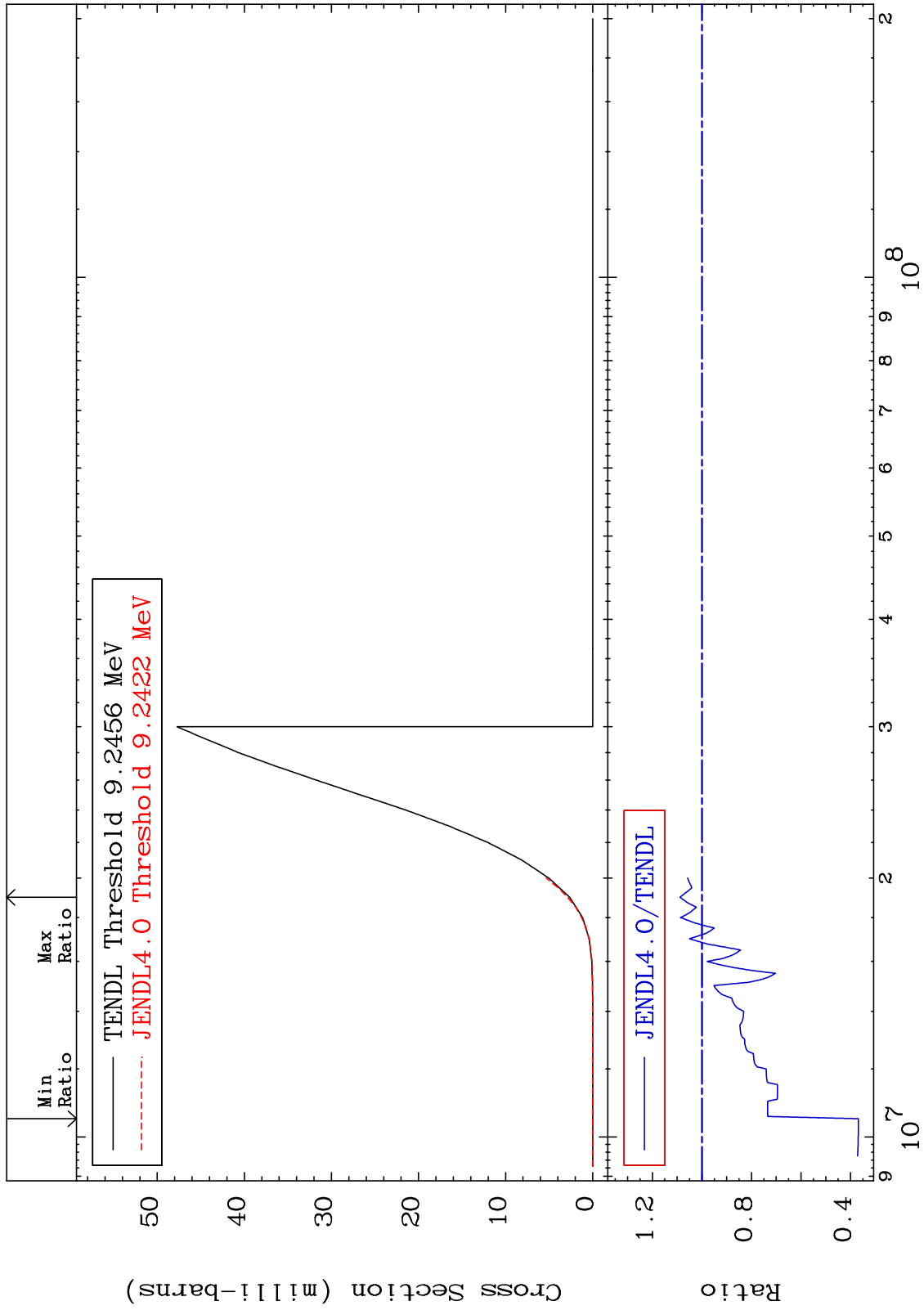
MAT 6449

(n,n') p

64-Gd-160

Cross Section

-63.17 To 8.849 %



Incident Energy (eV)

64-Gd-160

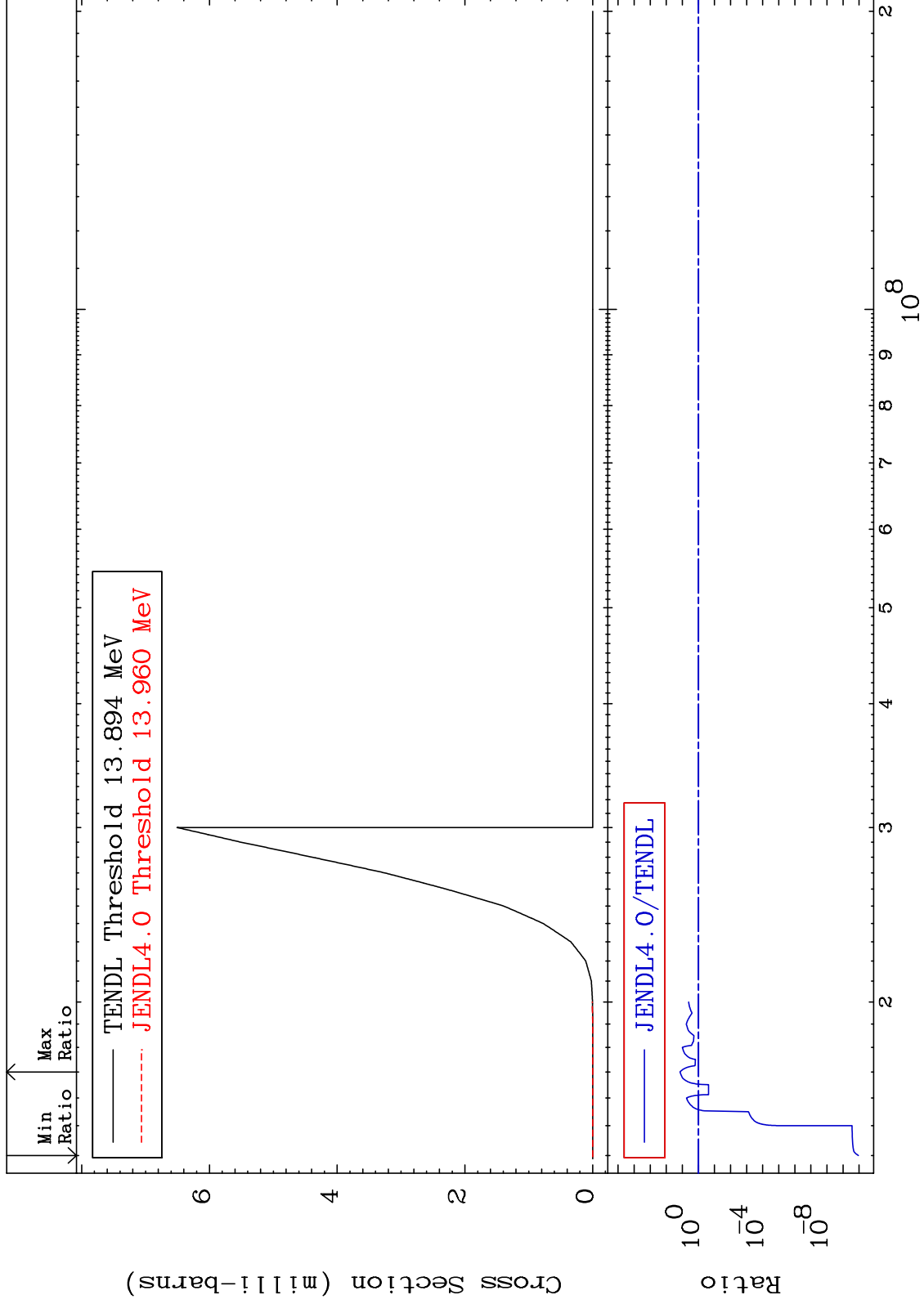
MAT 6449

(n,n') d

64-Gd-160

Cross Section

-100.0 To 1296. %



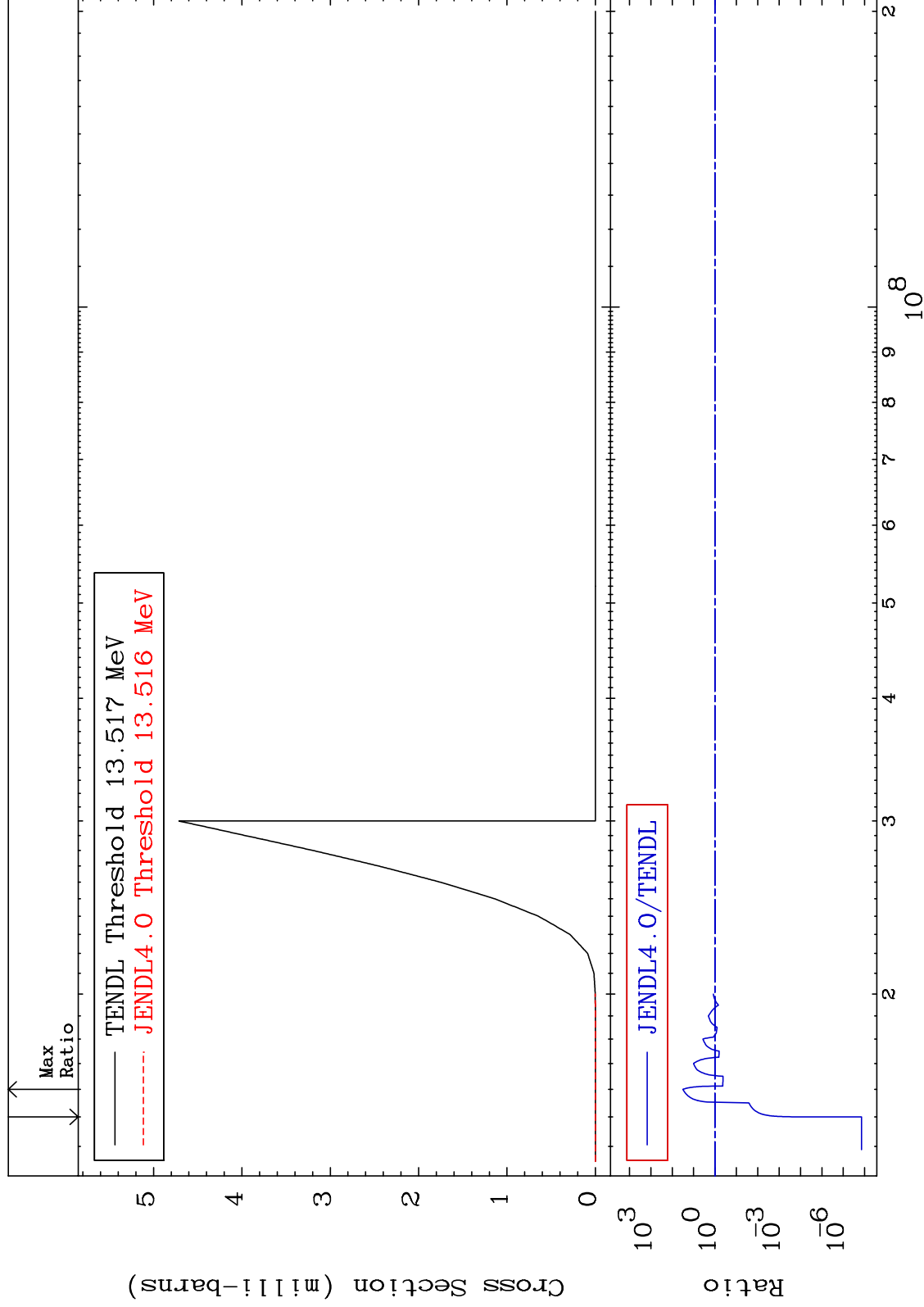
MAT 6449

(n,n') t

64-Gd-160

Cross Section

-100.0 To 3081. %



10

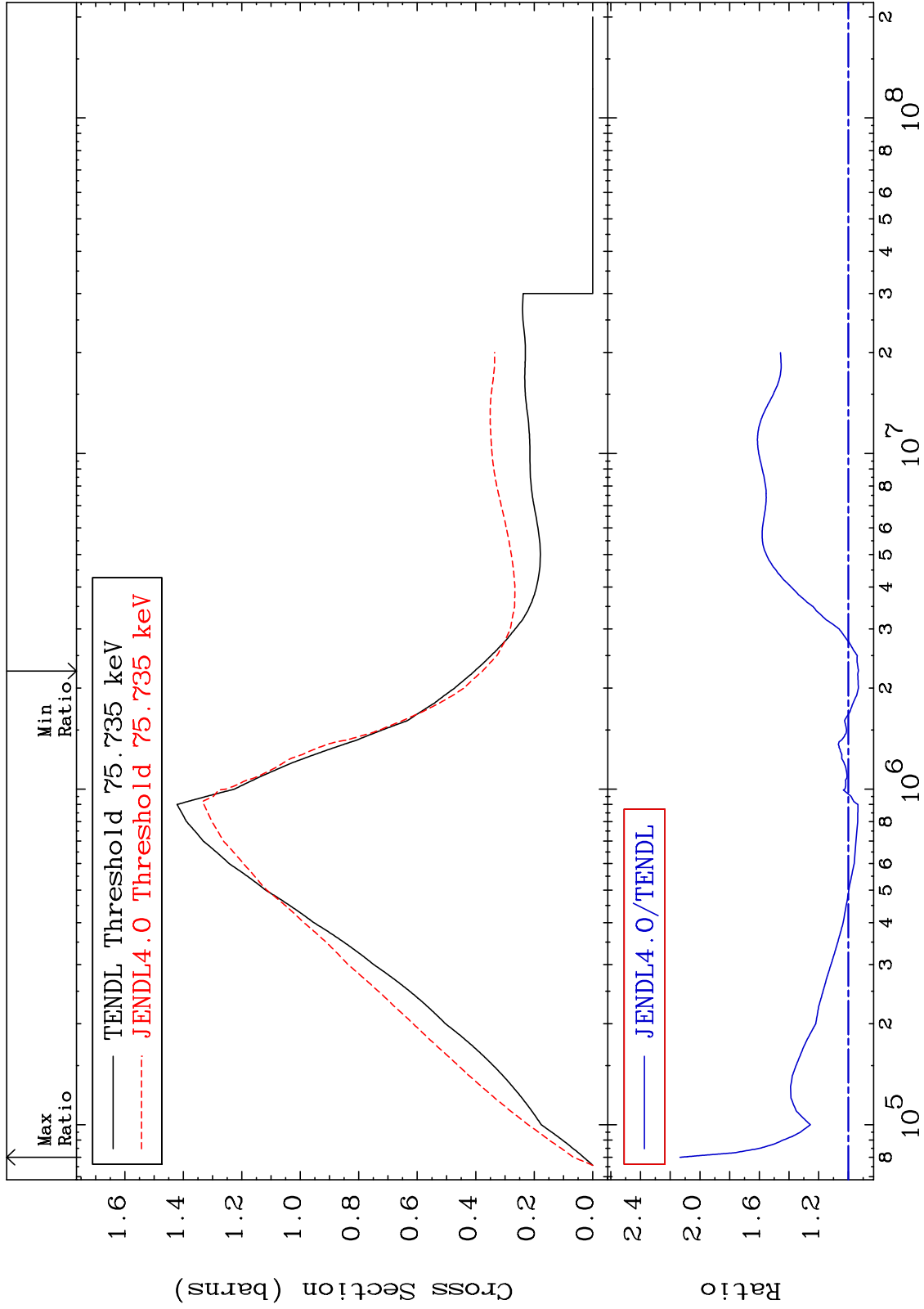
Incident Energy (eV)

64-Gd-160

MAT 6449

MT= 51 (n,n') Level
Cross Section

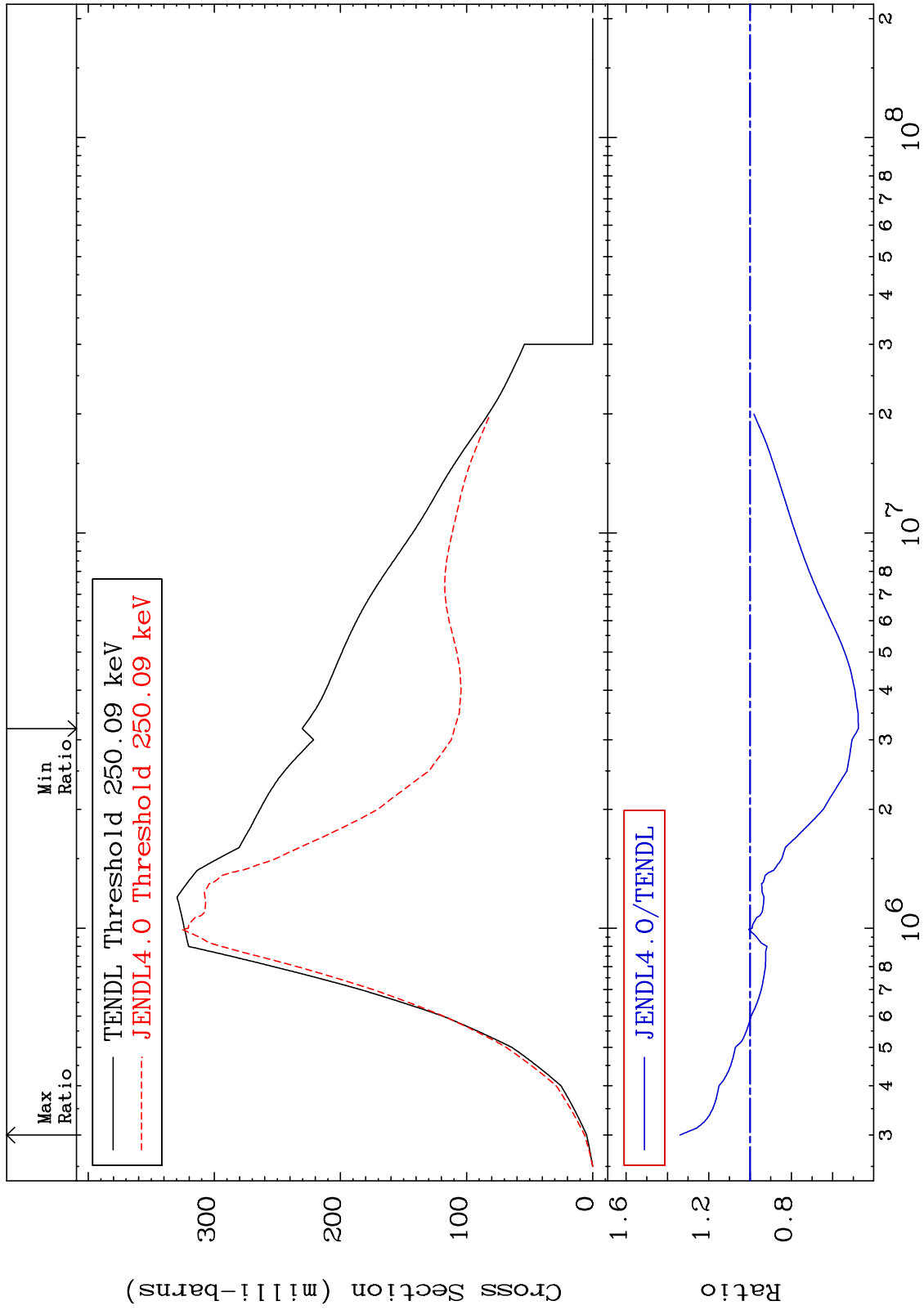
64-Gd-160
-6.746 To 113.4 %



MAT 6449

MT= 52 (n,n') Level
Cross Section

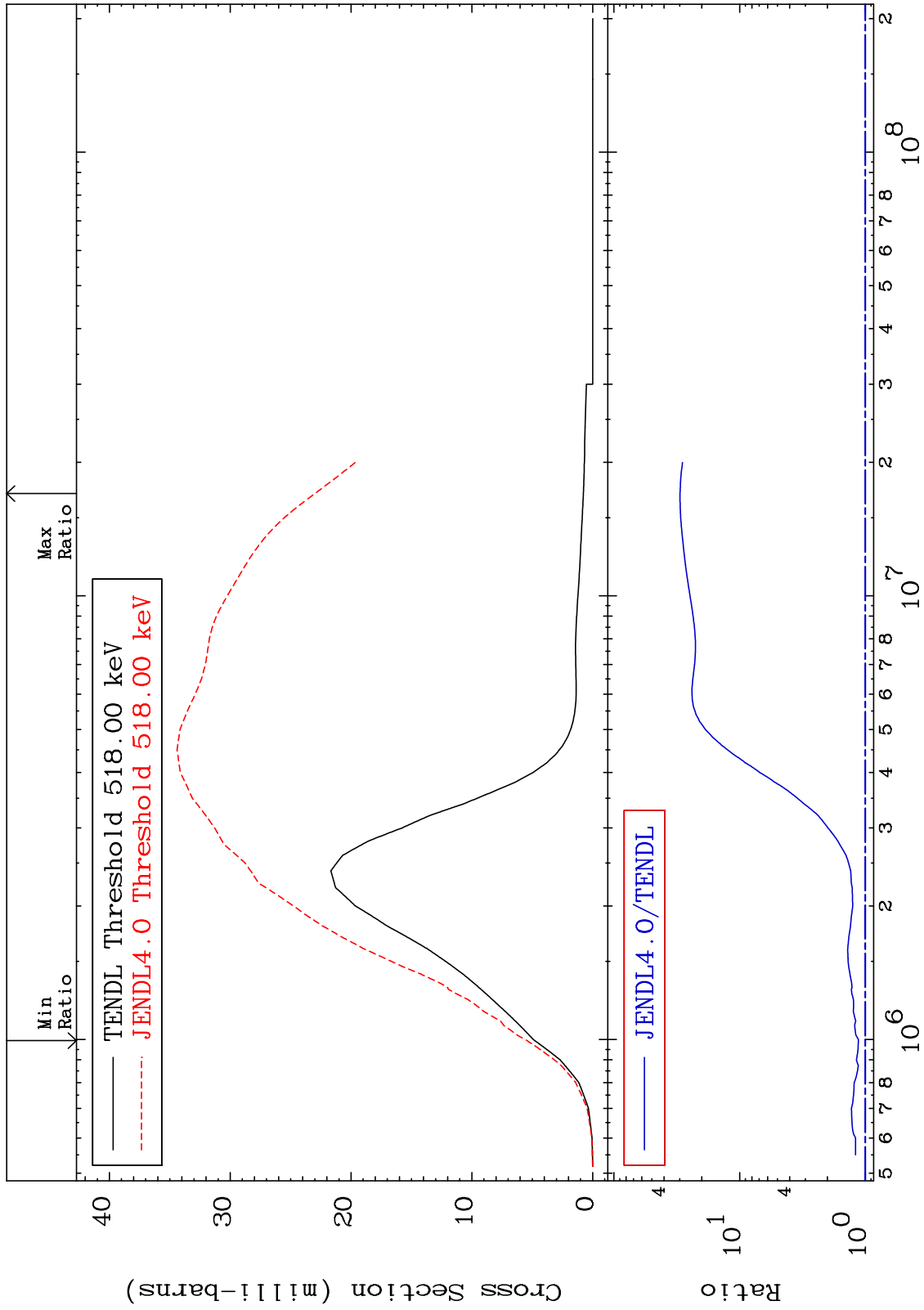
64-Gd-160
-52.43 To 33.91 %



MAT 6449

MT= 53 (n,n') Level
Cross Section

64-Gd-160
13.49 To 2881. %



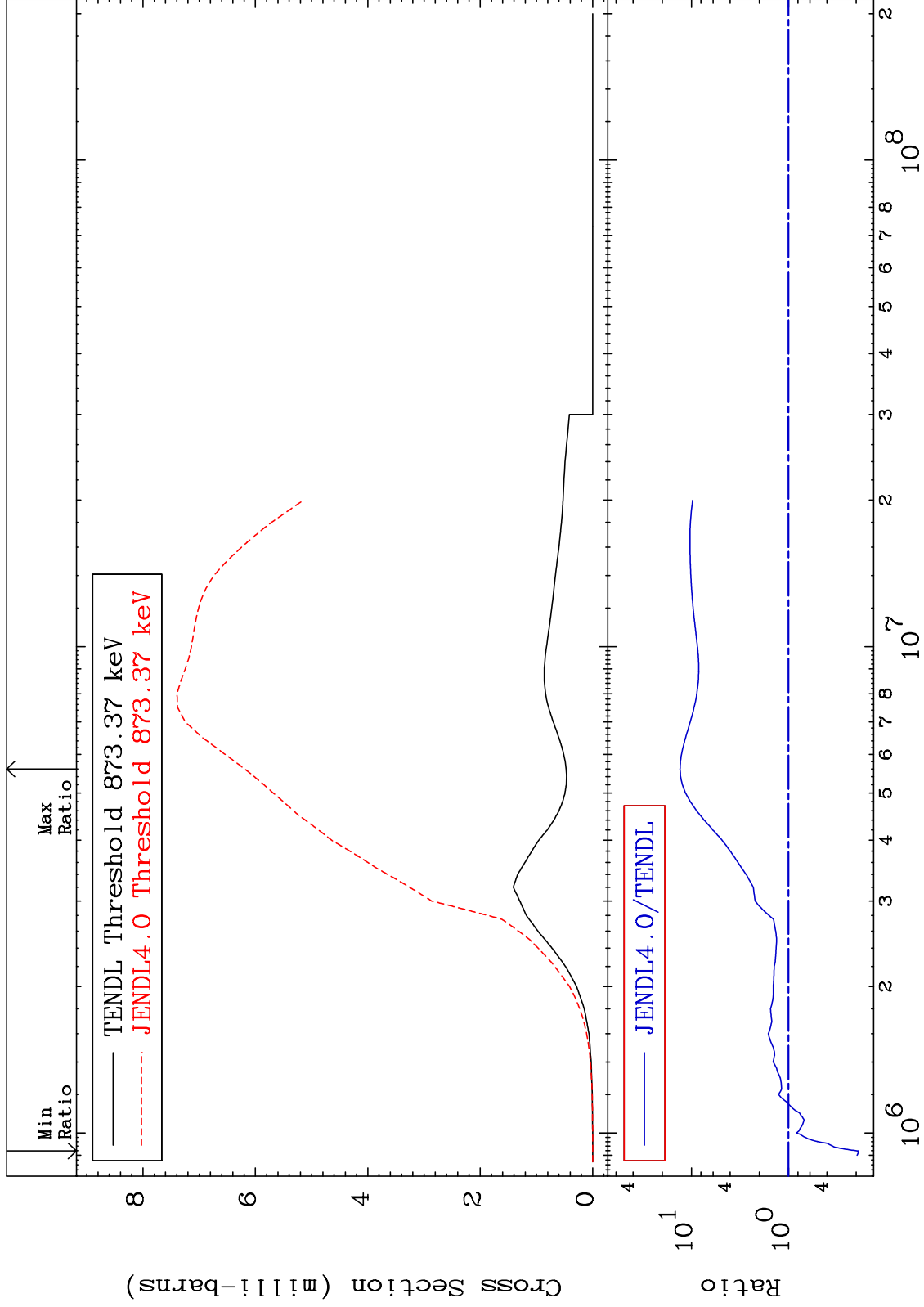
13

64-Gd-160

MAT 6449

MT= 54 (n,n') Level
Cross Section

64-Gd-160
-81.01 To 1214. %



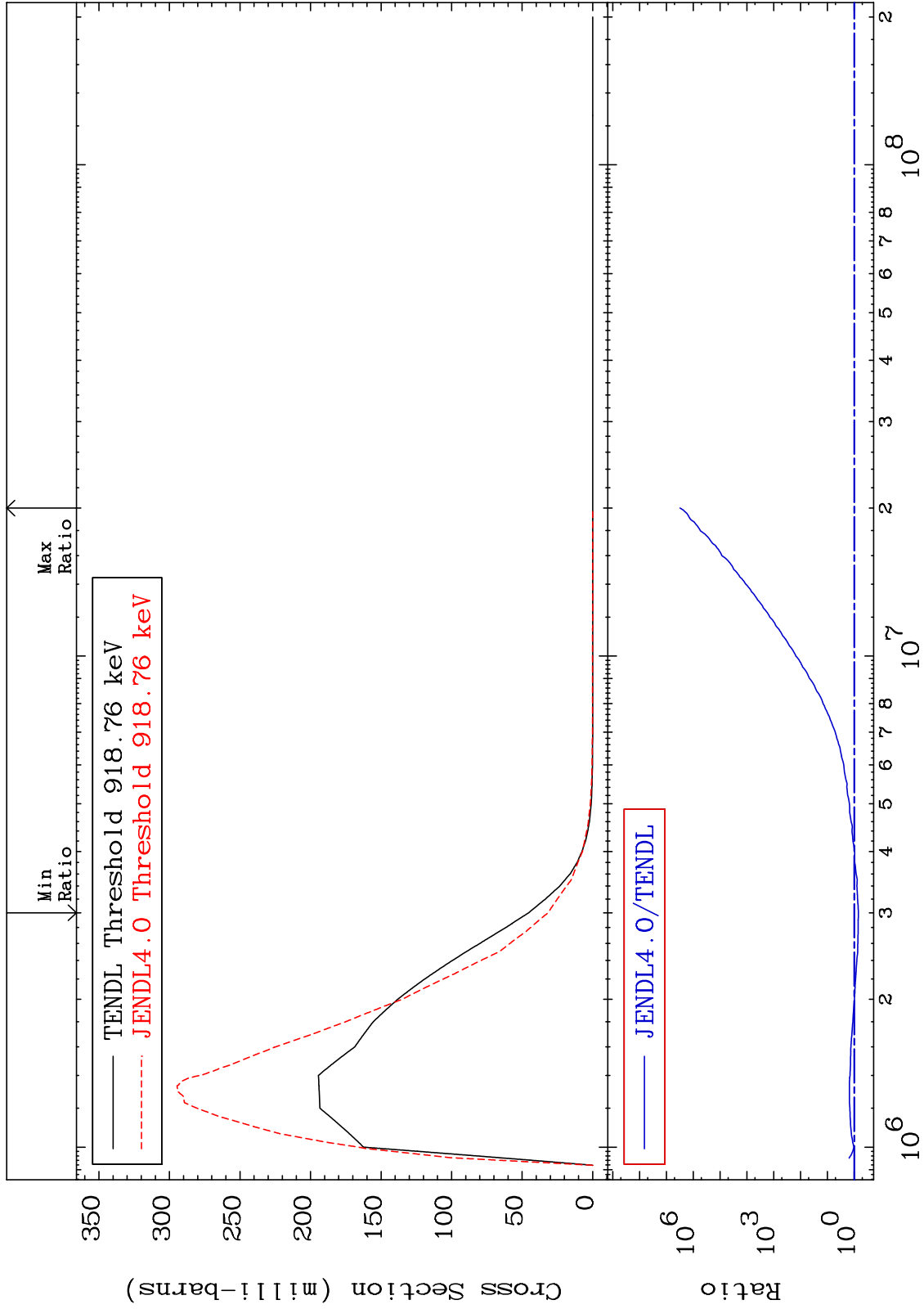
14

64-Gd-160

MAT 6449

MT= 55 (n,n') Level
Cross Section

64-Gd-160
-30.28 To 9999. %

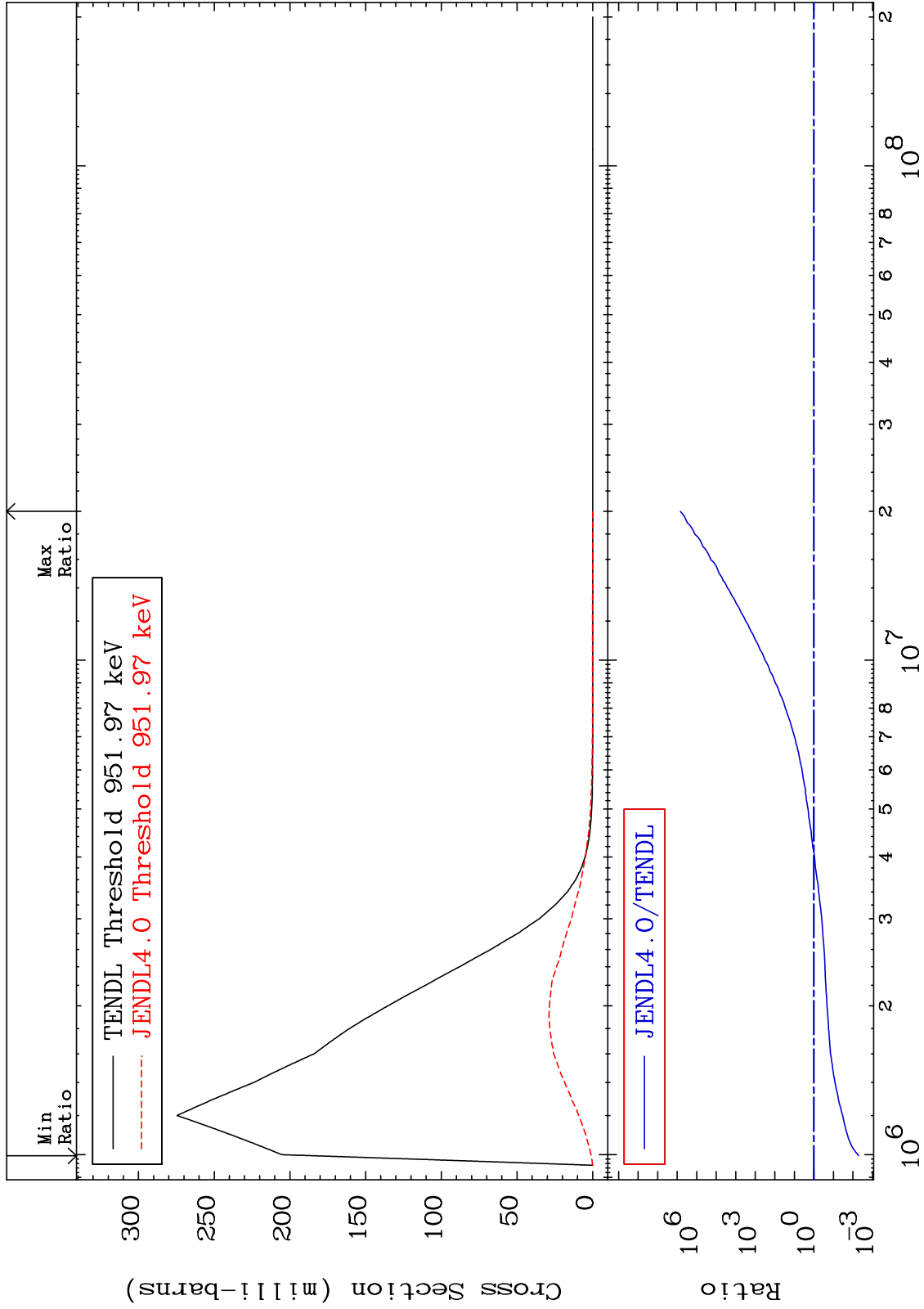


15 Incident Energy (eV) 64-Gd-160

MAT 6449

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

64-Gd-160
-99.48 To 9999. %



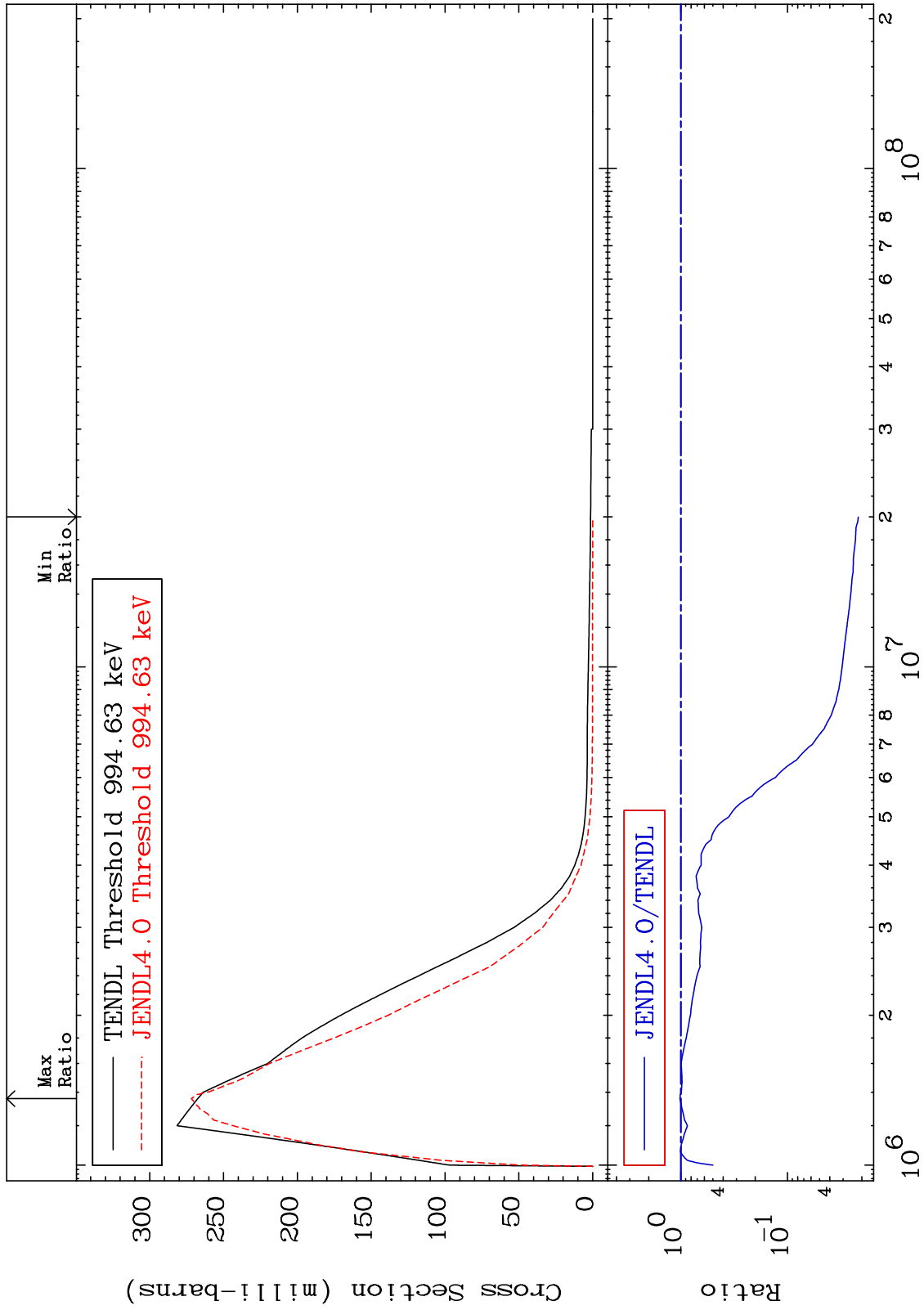
Incident Energy (eV)

64-Gd-160

MAT 6449

MT= 57 (n, n') Level
Cross Section

64-Gd-160
-97.84 To 1.613 %

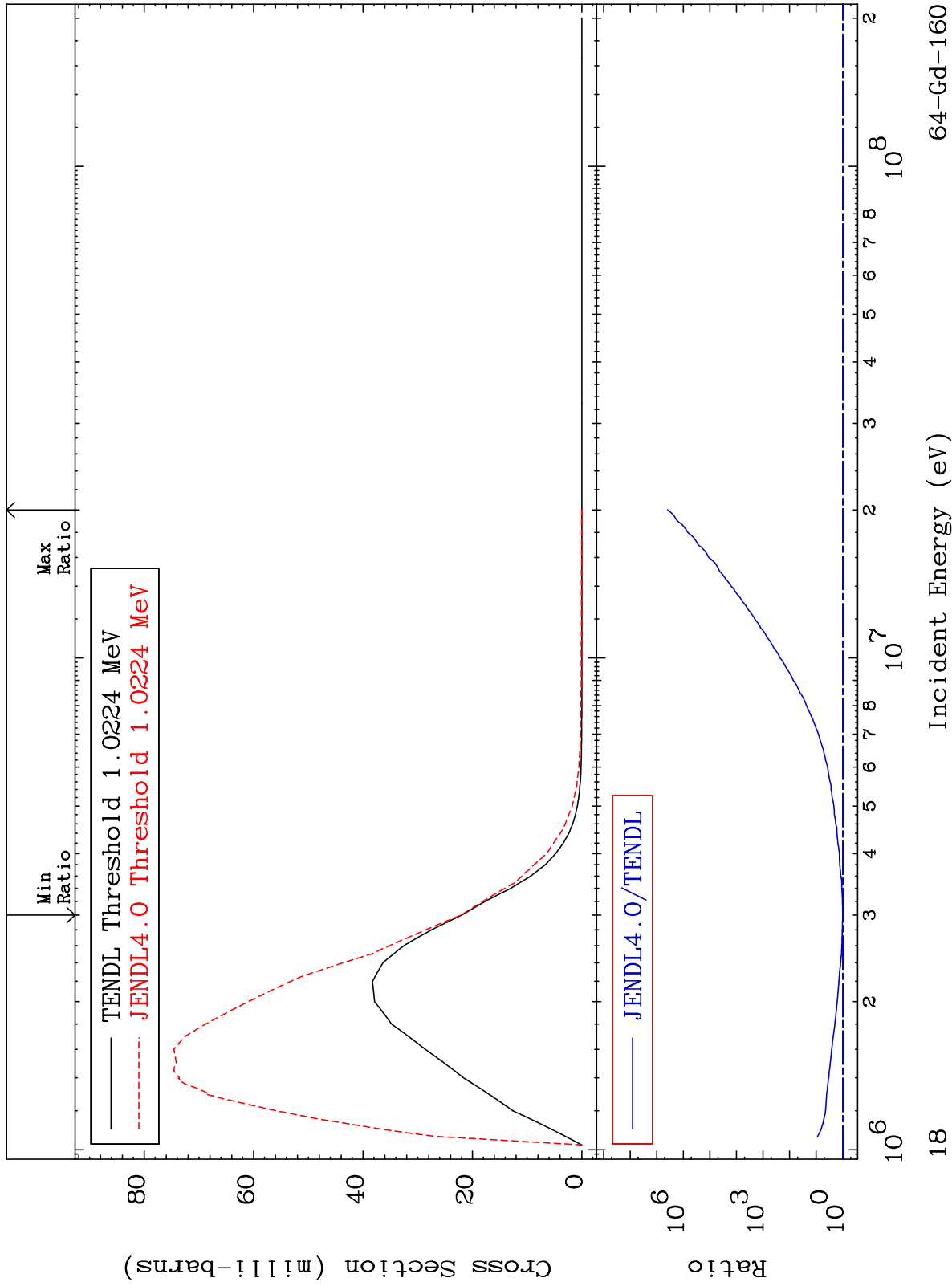


Incident Energy (eV)

64-Gd-160

17

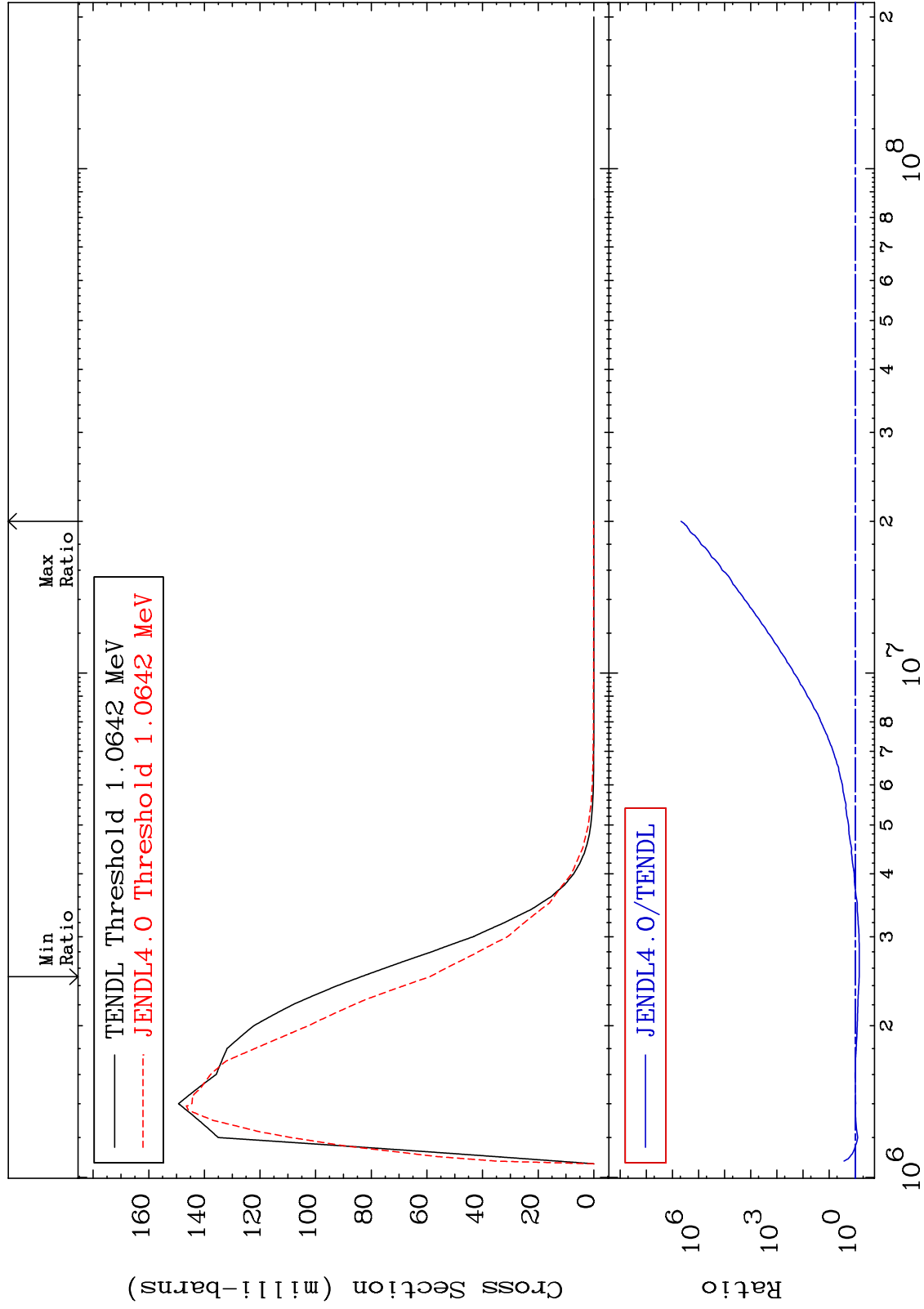
MAT 6449 MT= 58 (n,n') Level Cross Section 64-Gd-160
0.570 To 9999. %



MAT 6449

MT= 59 (n, n') Level
Cross Section

64-Gd-160
-29.56 To 9999. %



19

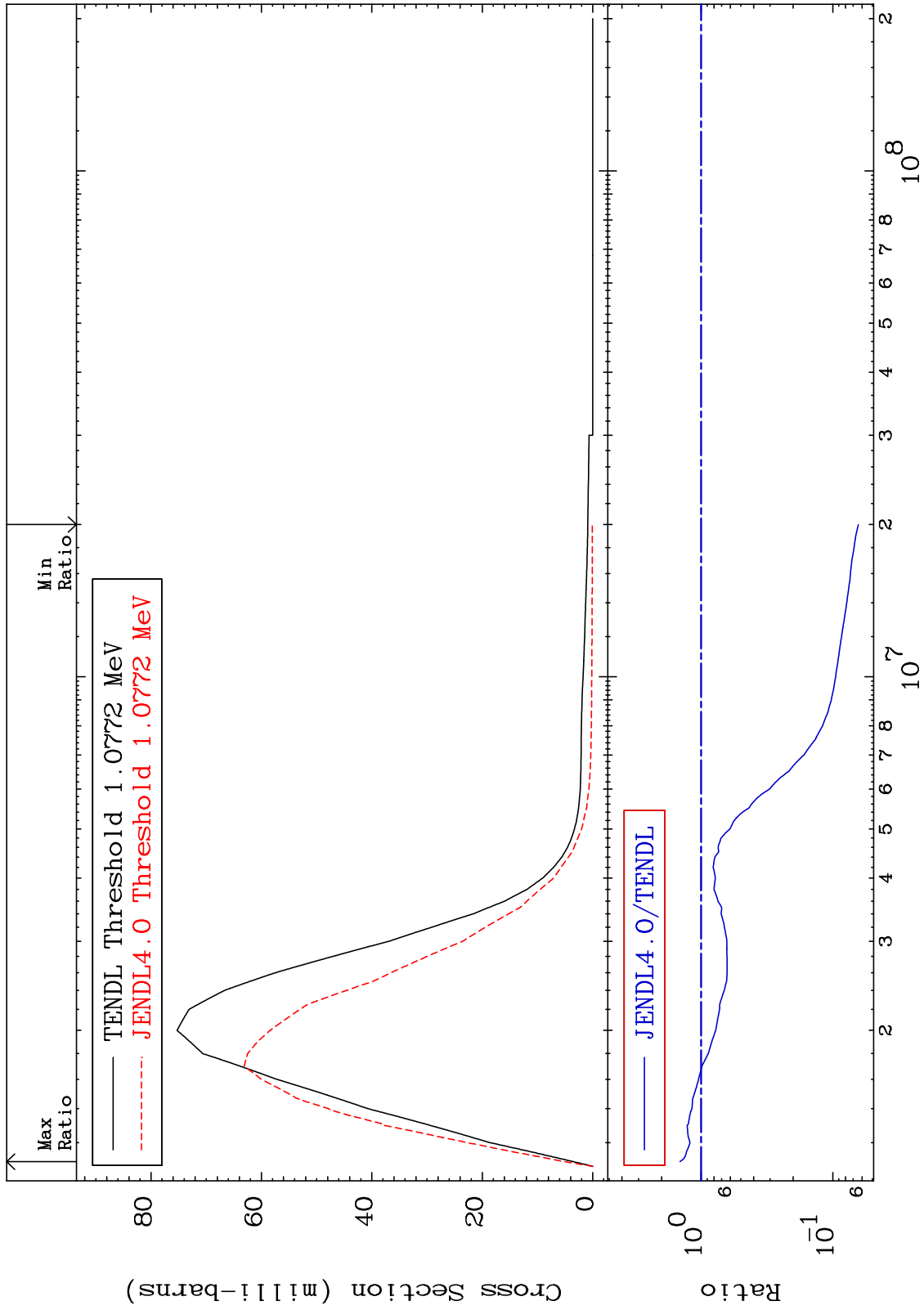
Incident Energy (eV)

64-Gd-160

MAT 6449

MT= 60 (n,n') Level
Cross Section

64-Gd-160
-93.61 To 44.87 %



20

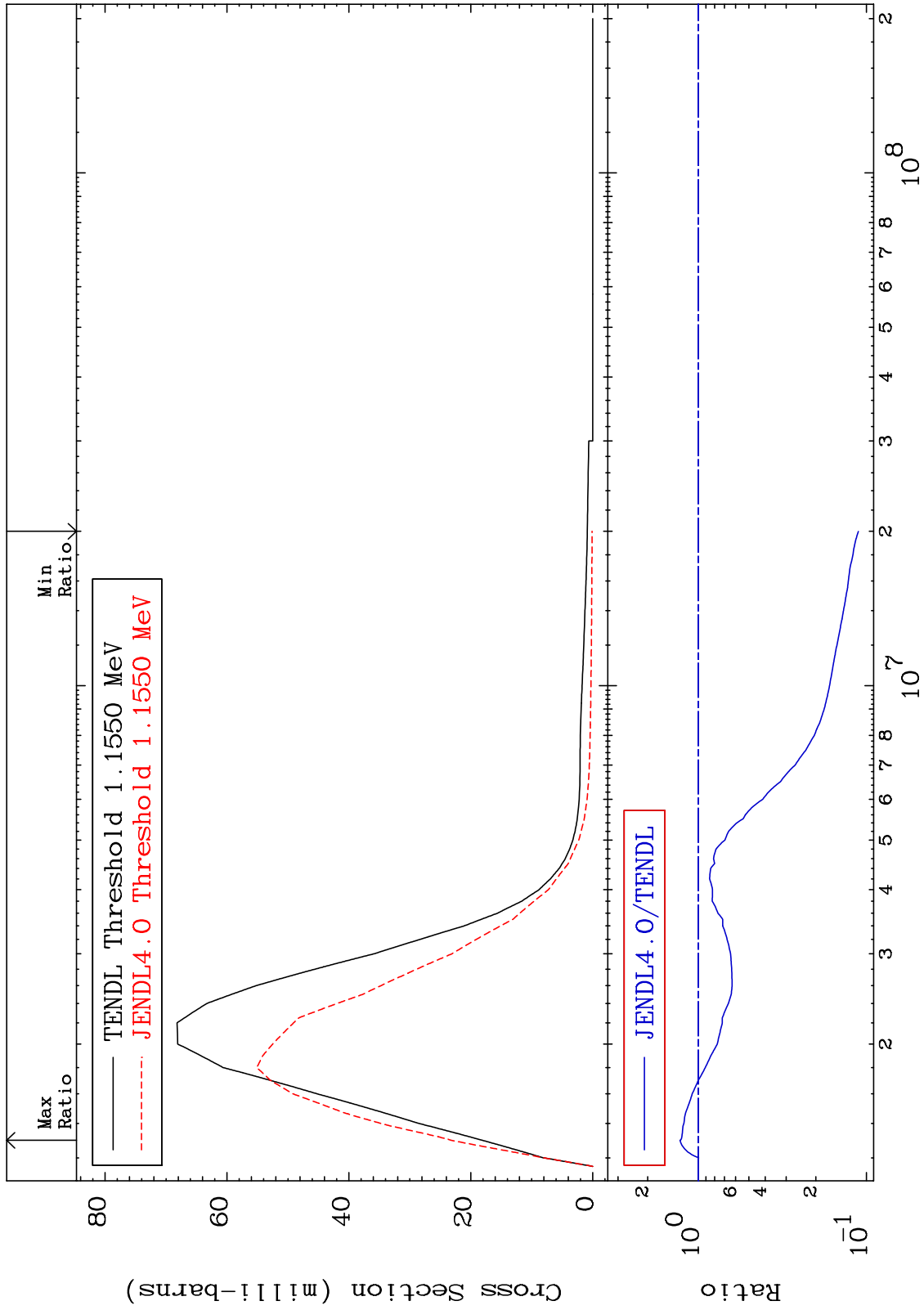
Incident Energy (eV)

64-Gd-160

MAT 6449

MT= 61 (n,n') Level
Cross Section

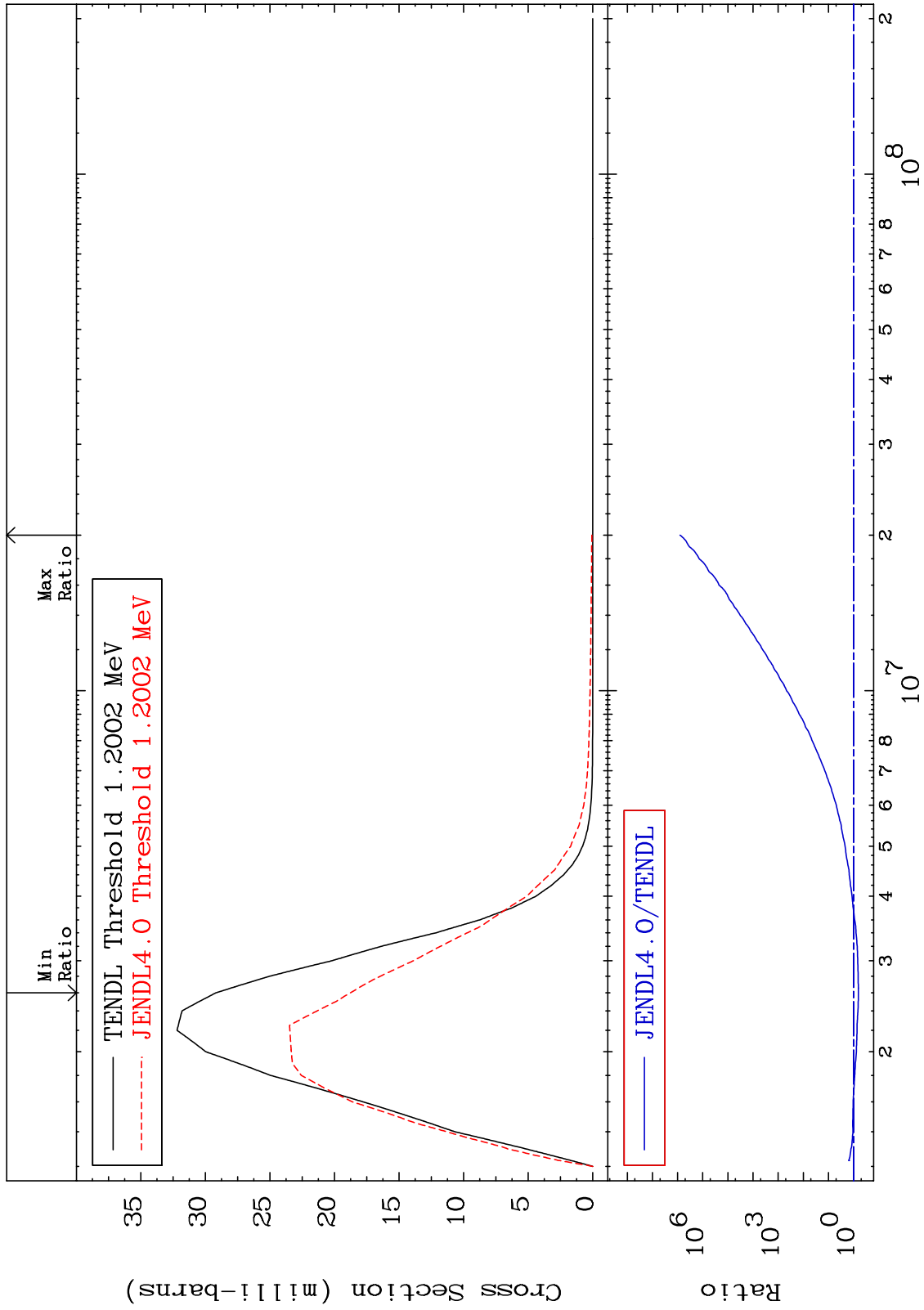
64-Gd-160
-88.83 To 28.45 %



MAT 6449

MT= 62 (n, n') Level
Cross Section

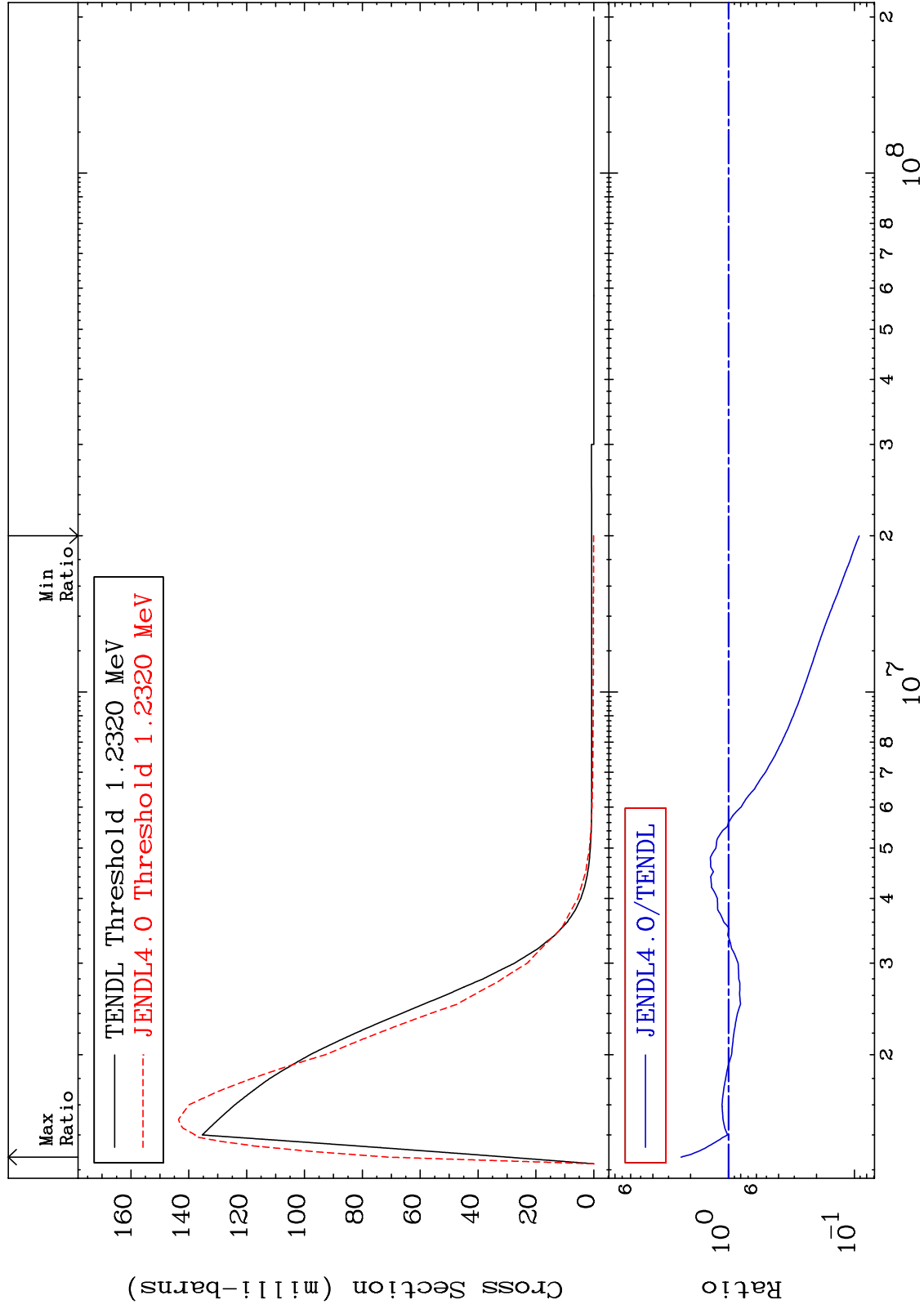
64-Gd-160
-35.65 To 9999. %



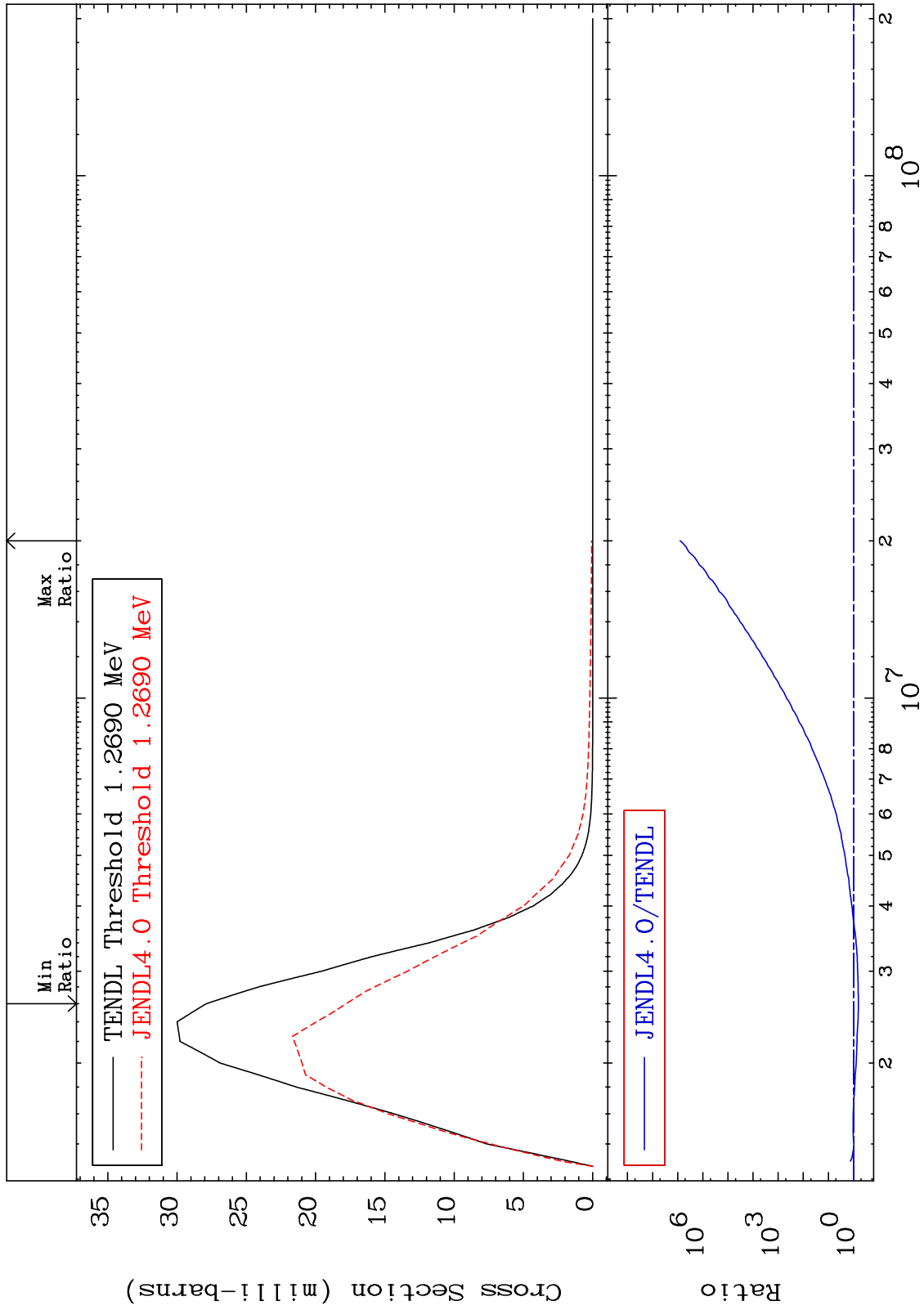
MAT 6449

MT= 63 (n, n') Level
Cross Section

64-Gd-160
-90.86 To 138.4 %



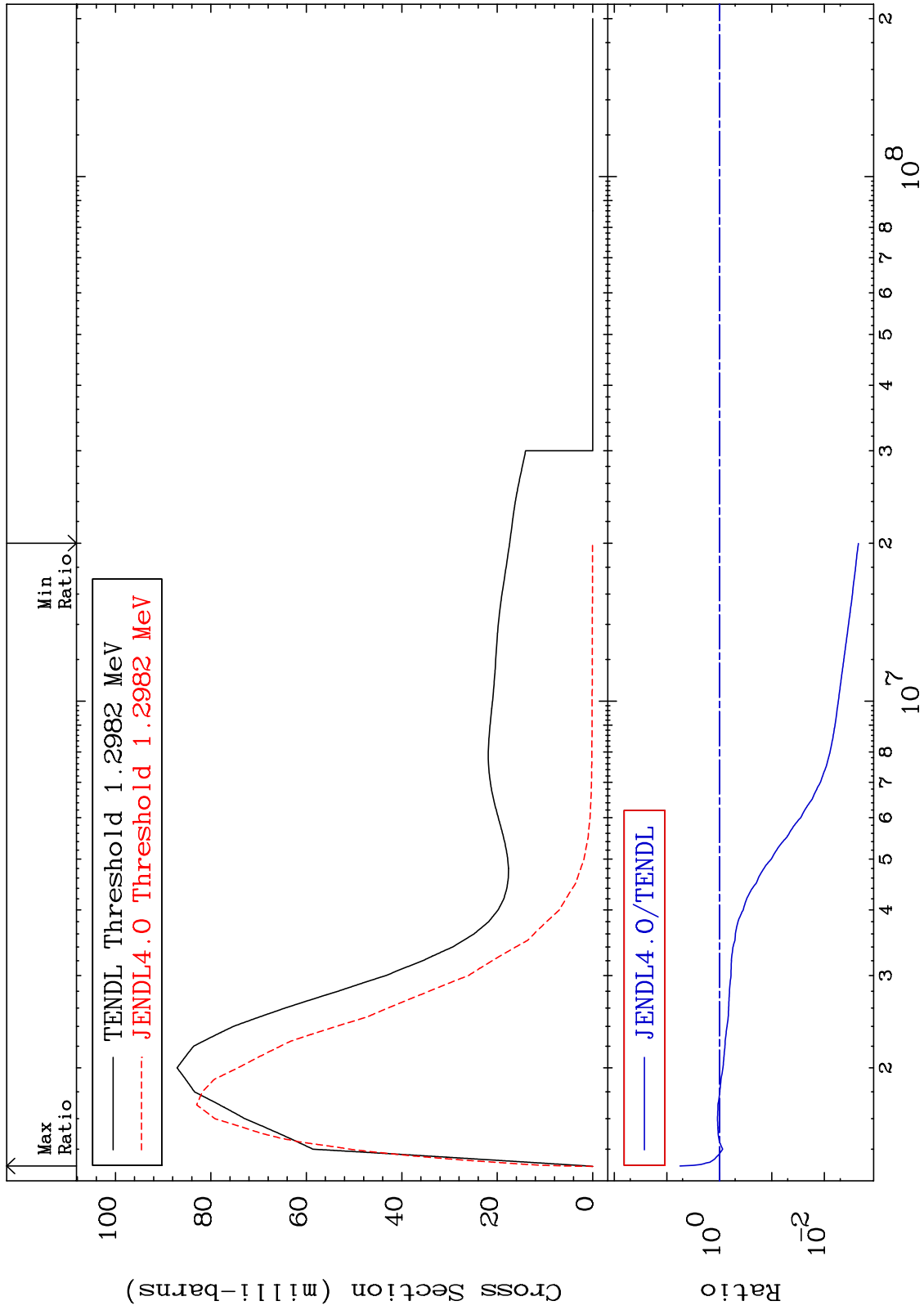
MAT 6449 MT= 64 (n, n') Level Cross Section 64-Gd-160
 -36.18 To 9999. %



MAT 6449

MT= 65 (n,n') Level
Cross Section

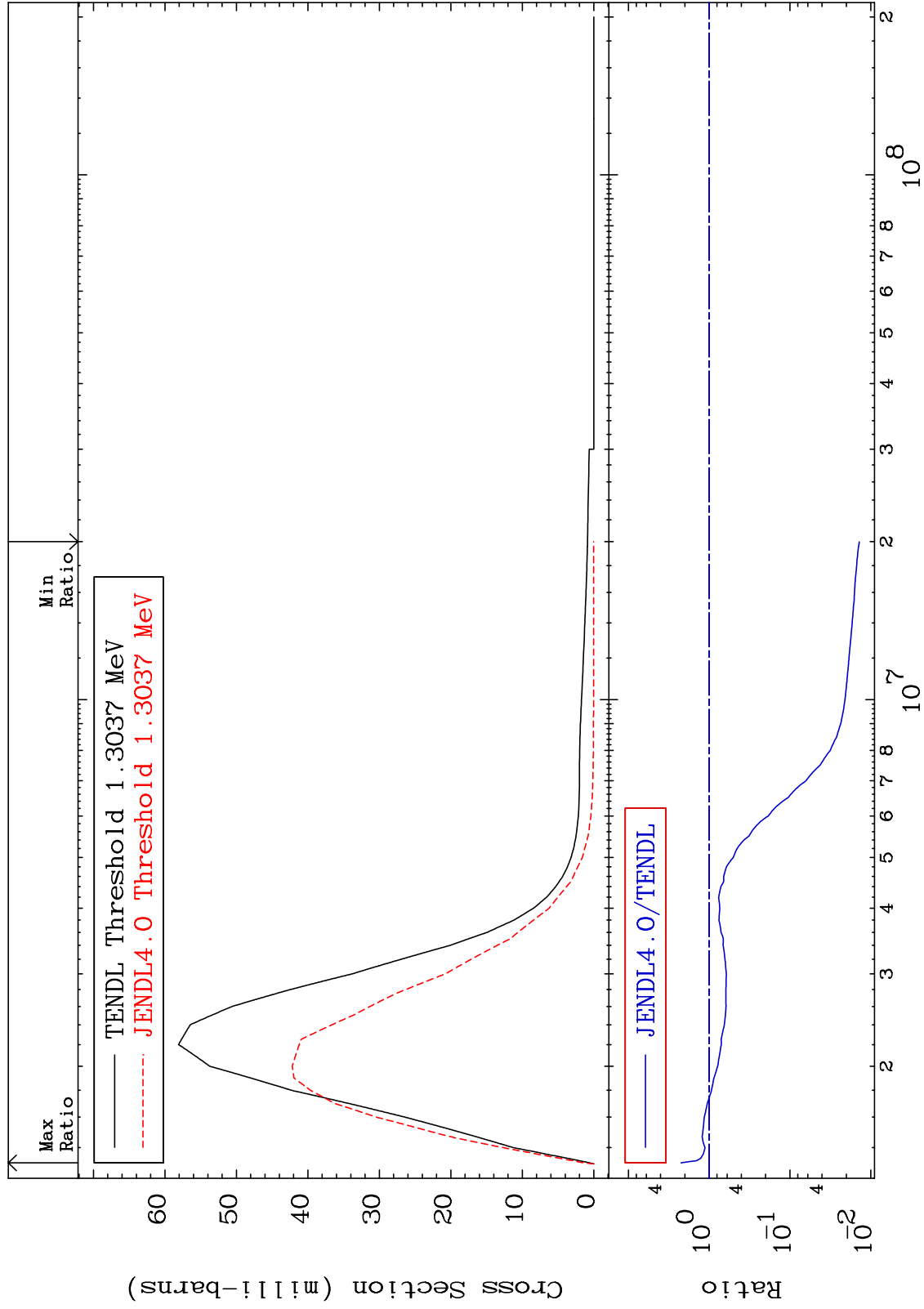
64-Gd-160
-99.78 To 461.1 %



MAT 6449

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

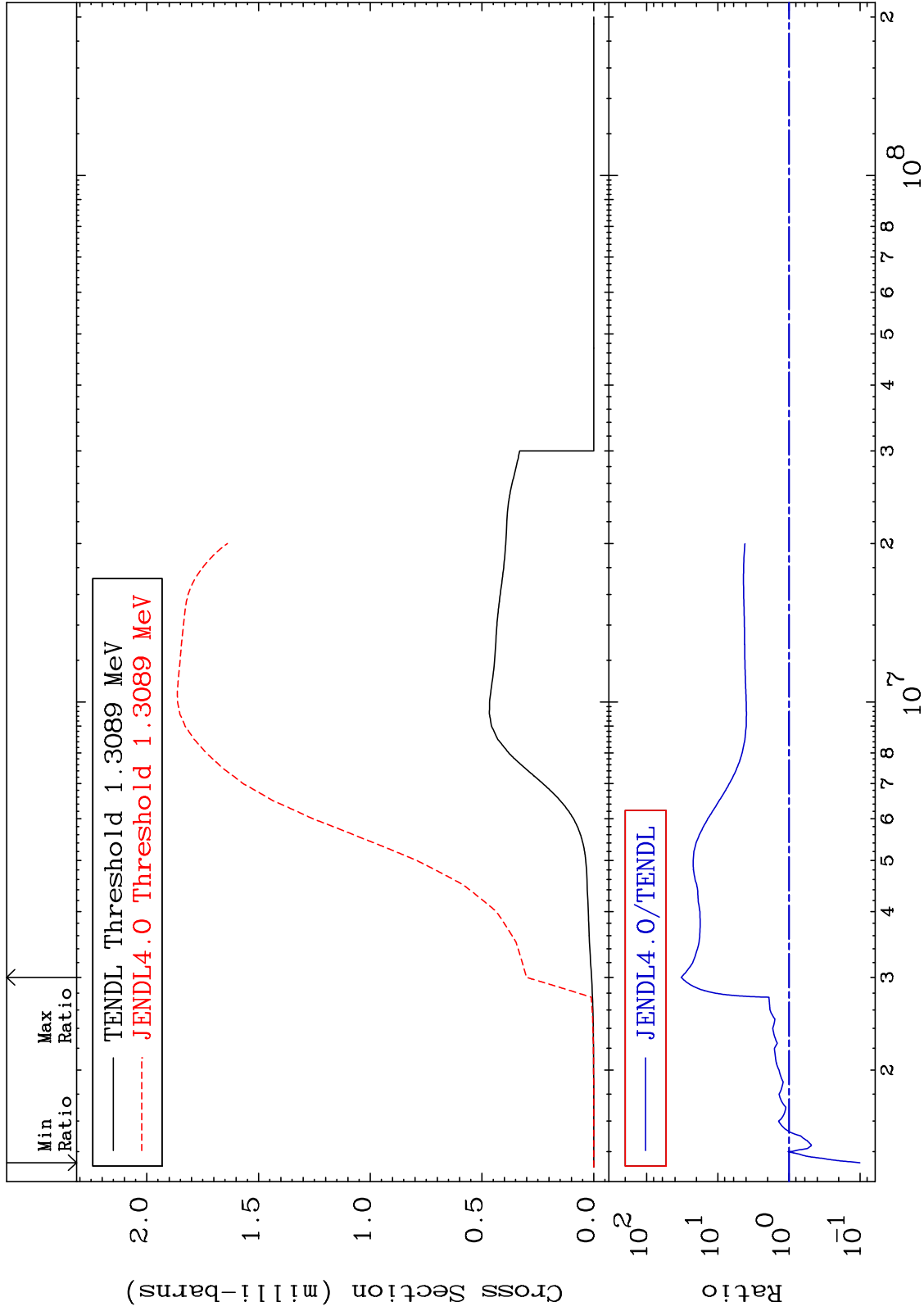
64-Gd-160
-98.62 To 123.0 %



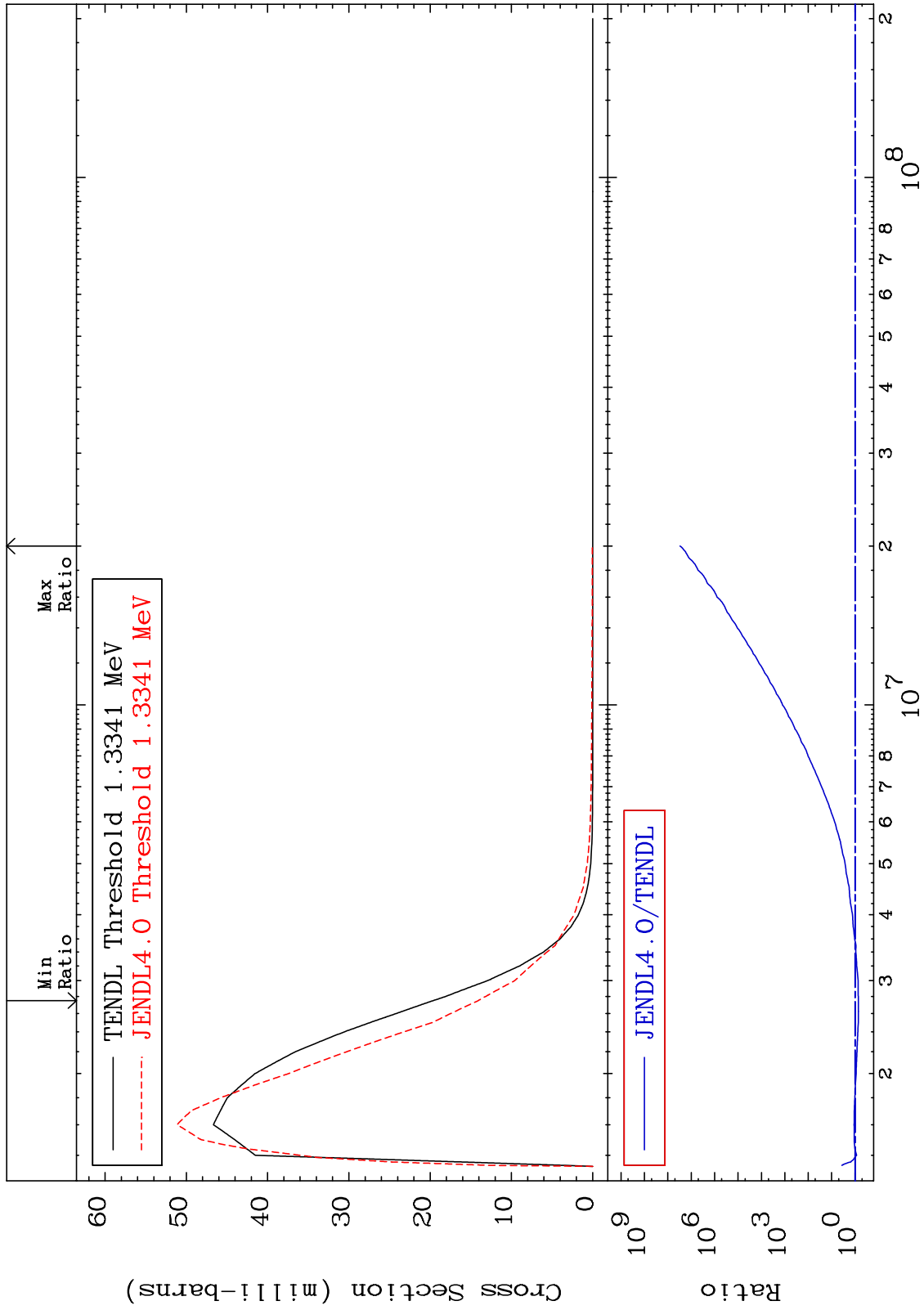
MAT 6449

MT= 67 (n,n') Level
Cross Section

64-Gd-160
-89.92 To 3169. %



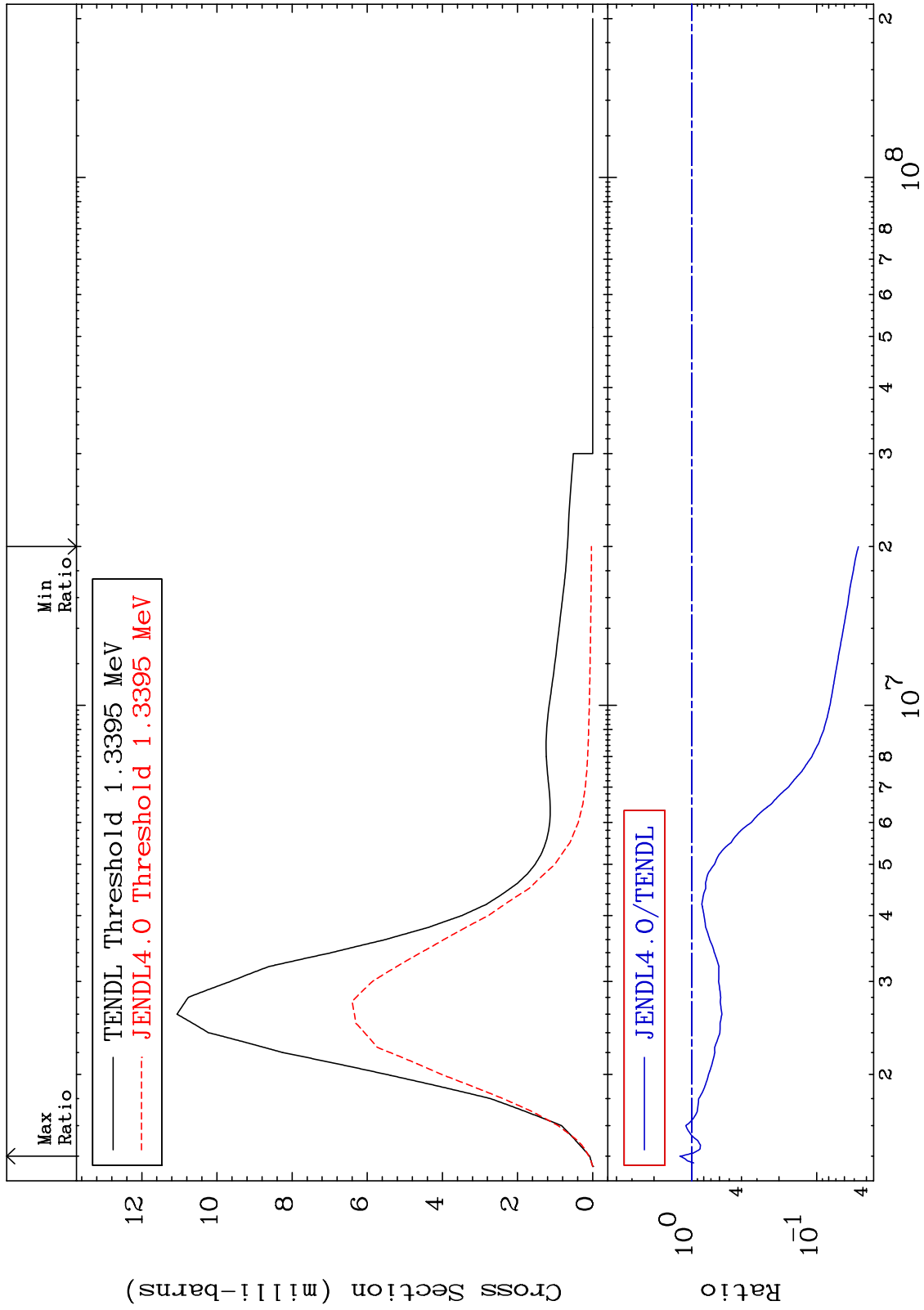
MAT 6449 MT= 68 (n, n') Level 64-Gd-160
 Cross Section -28.23 To 9999. %



MAT 6449

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

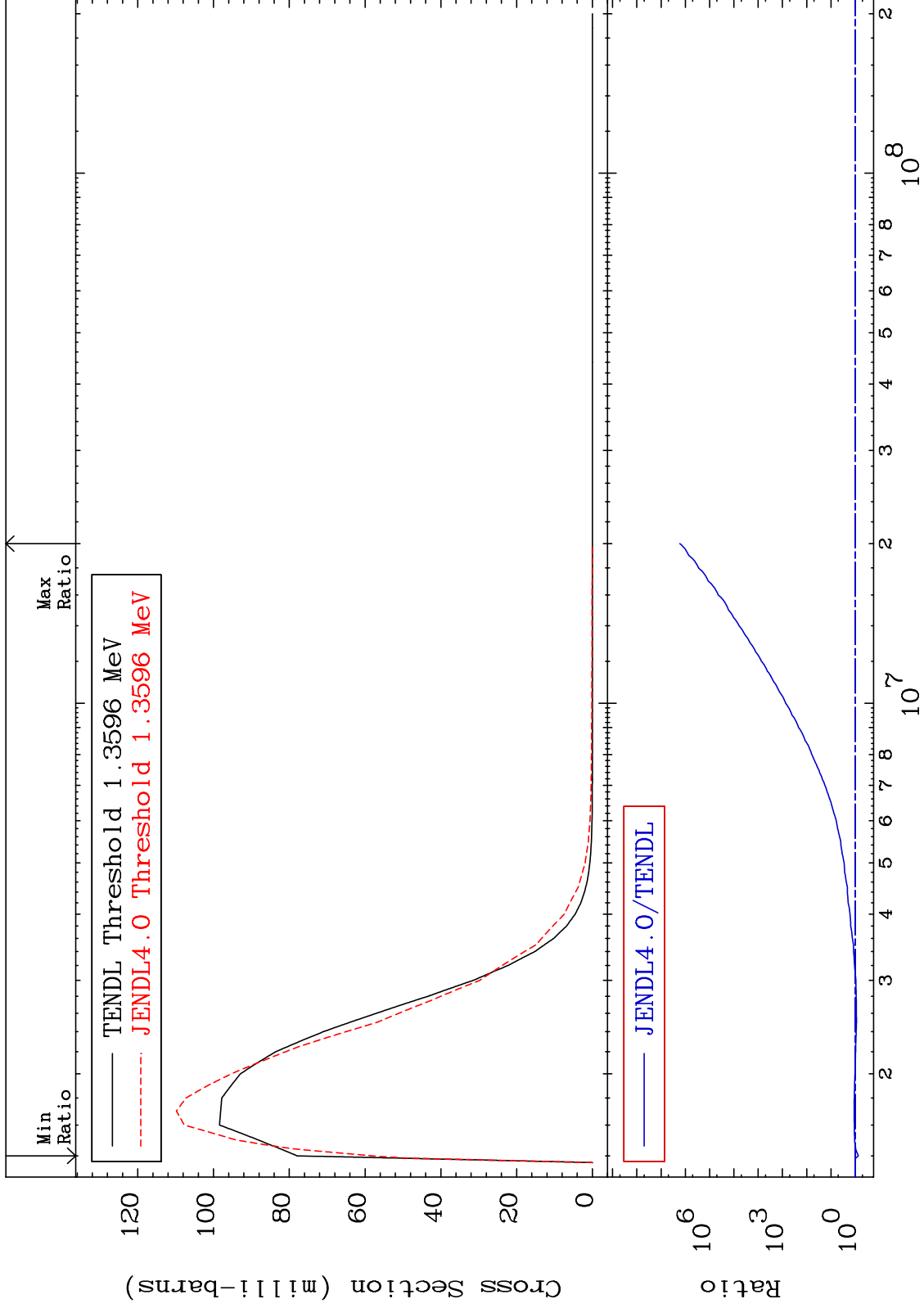
64-Gd-160
-95.37 To 23.88 %



MAT 6449

MT= 70 (n, n') Level
Cross Section

64-Gd-160
-25.49 To 9999. %



30

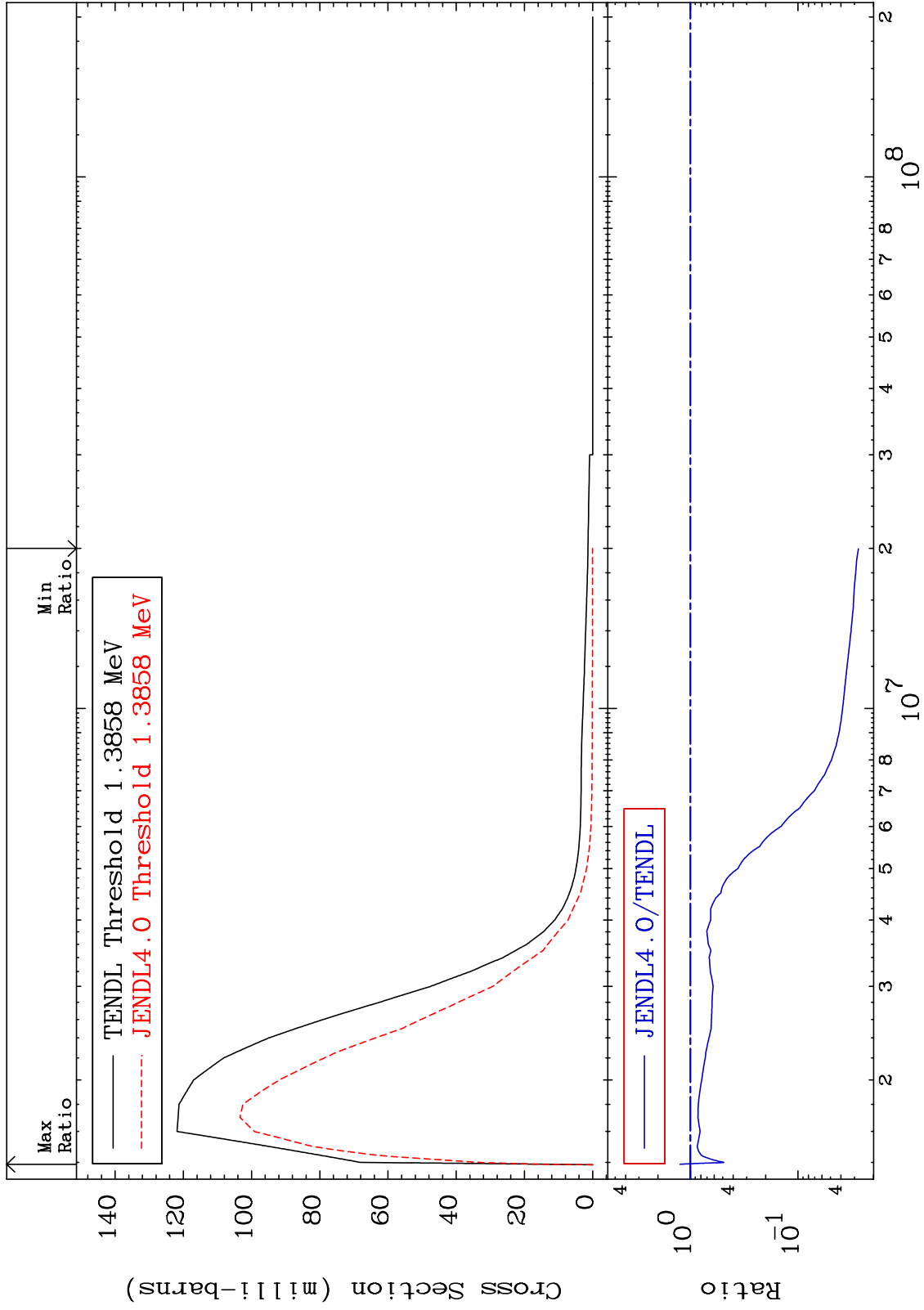
Incident Energy (eV)

64-Gd-160

MAT 6449

MT= 71 (n,n') Level
Cross Section

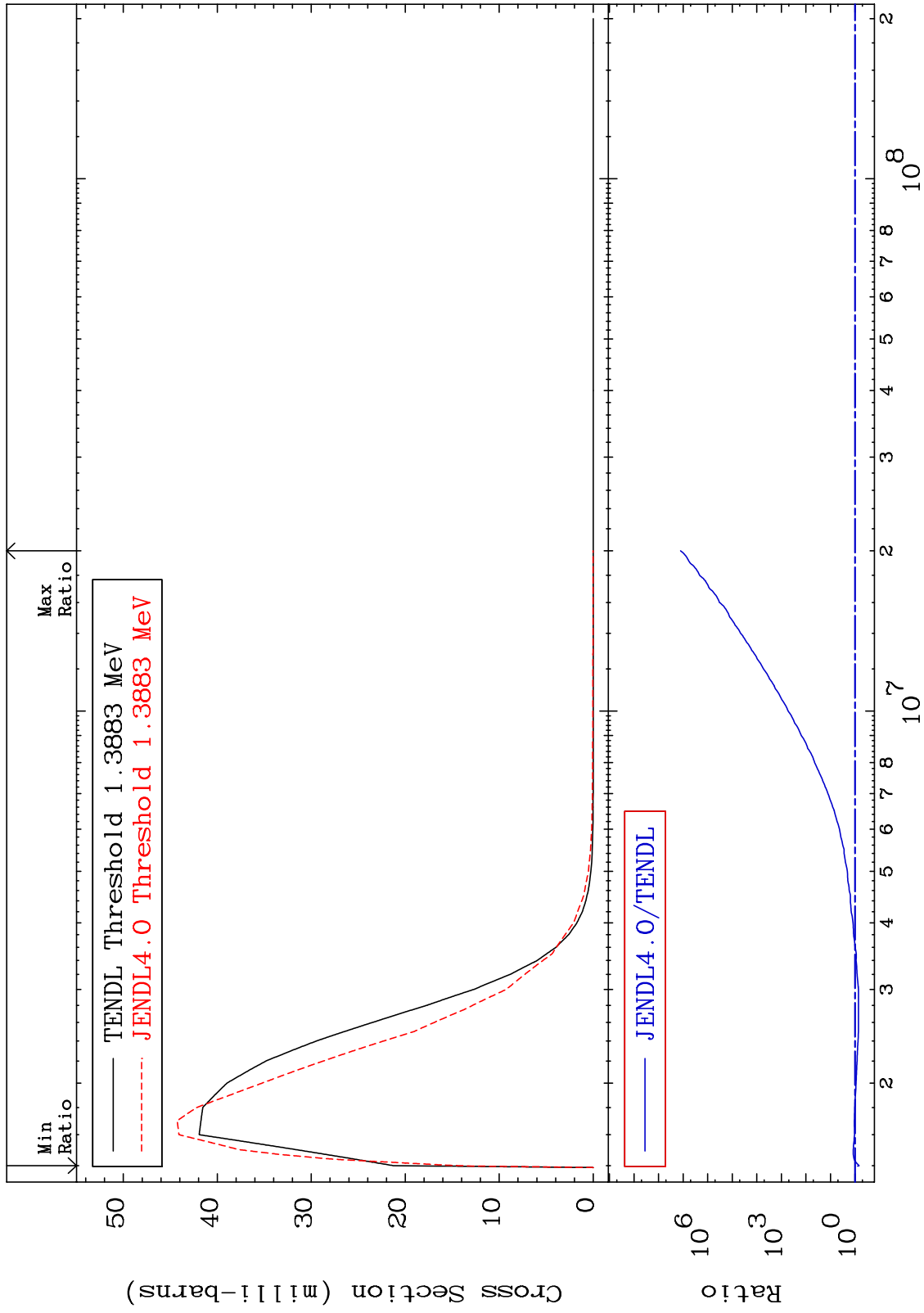
64-Gd-160
-97.25 To 24.80 %



MAT 6449

MT= 72 (n,n') Level
Cross Section

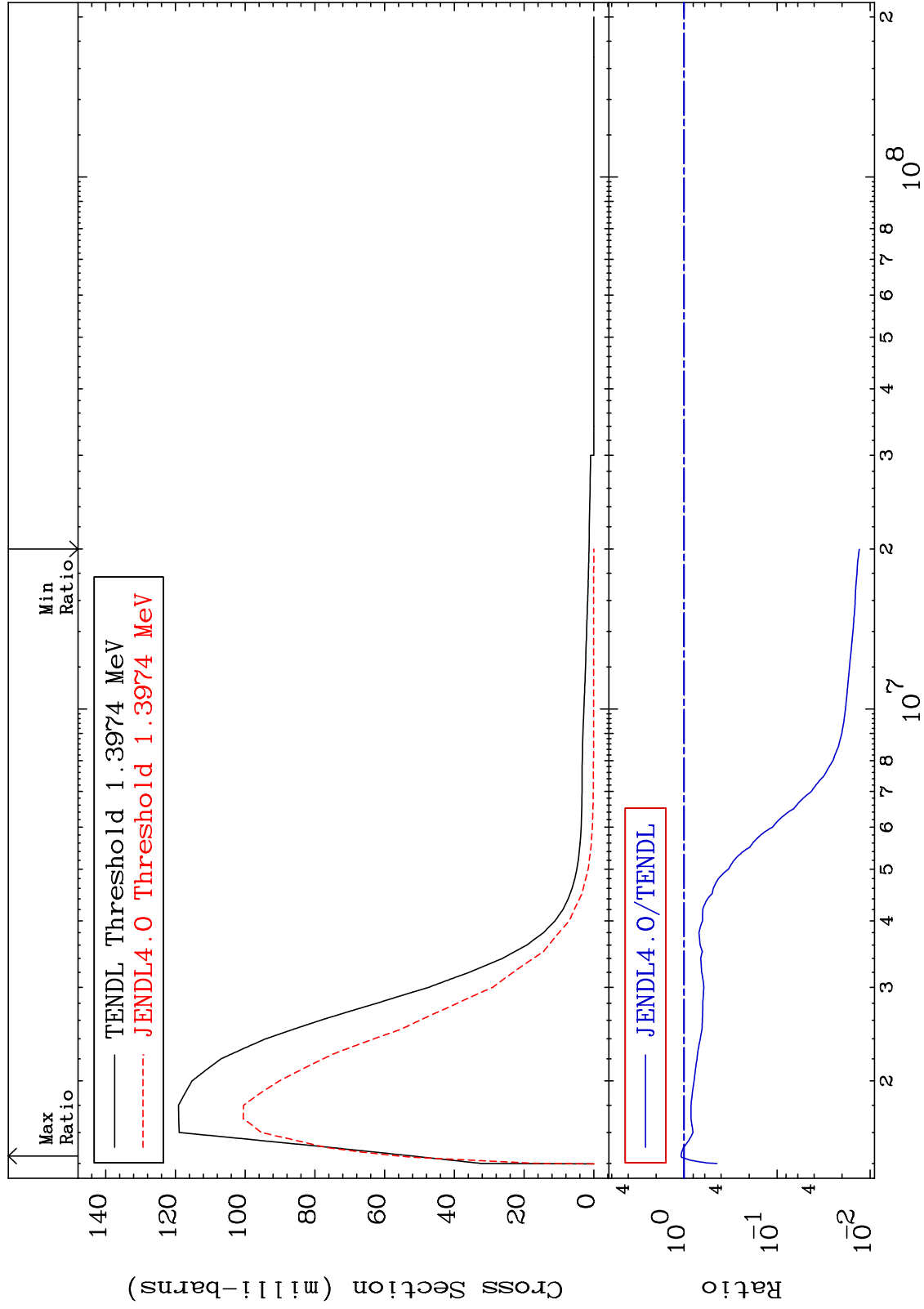
64-Gd-160
-32.27 To 9999. %



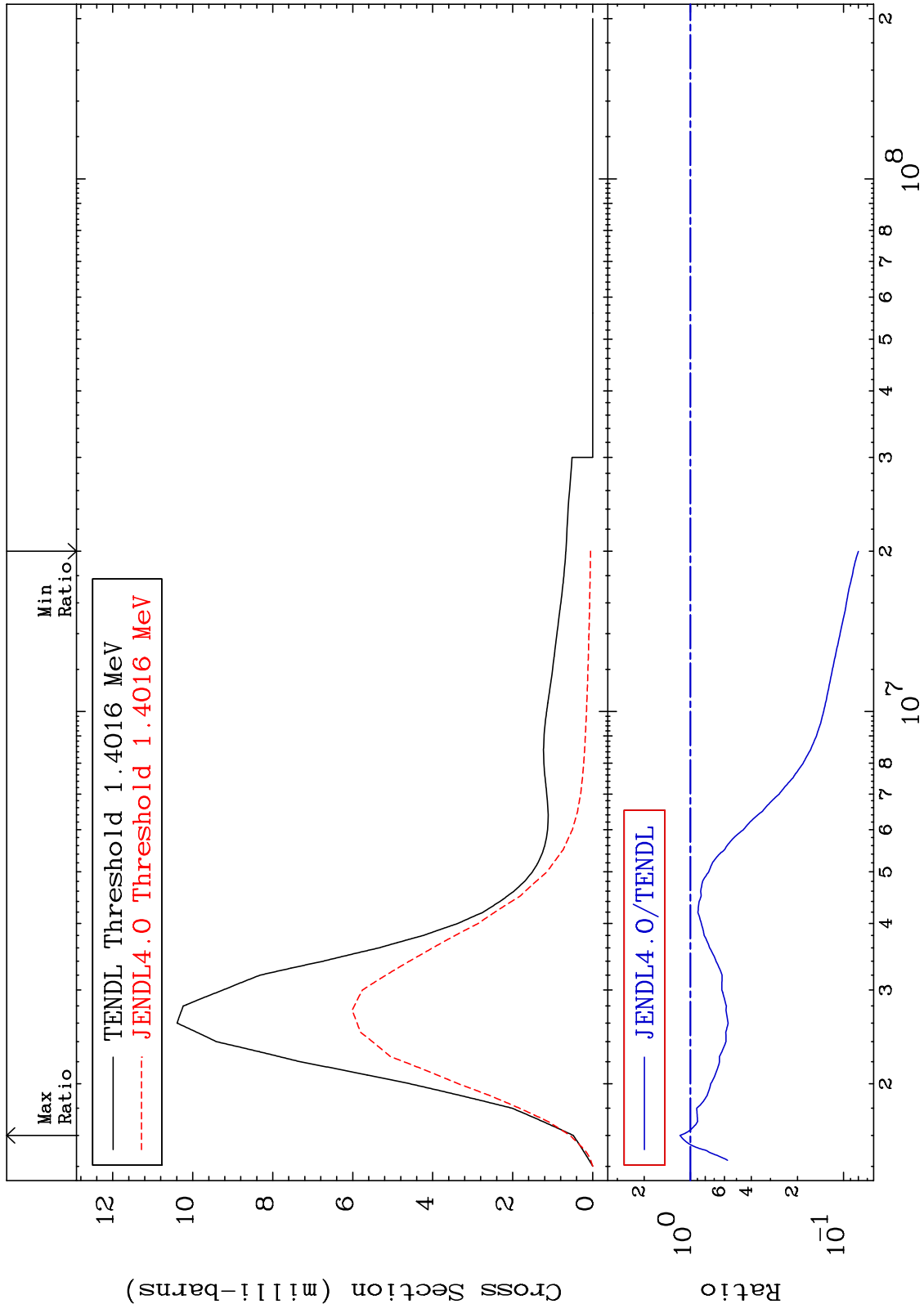
MAT 6449

MT= 73 (n,n') Level
Cross Section

64-Gd-160
-98.70 To 7.872 %



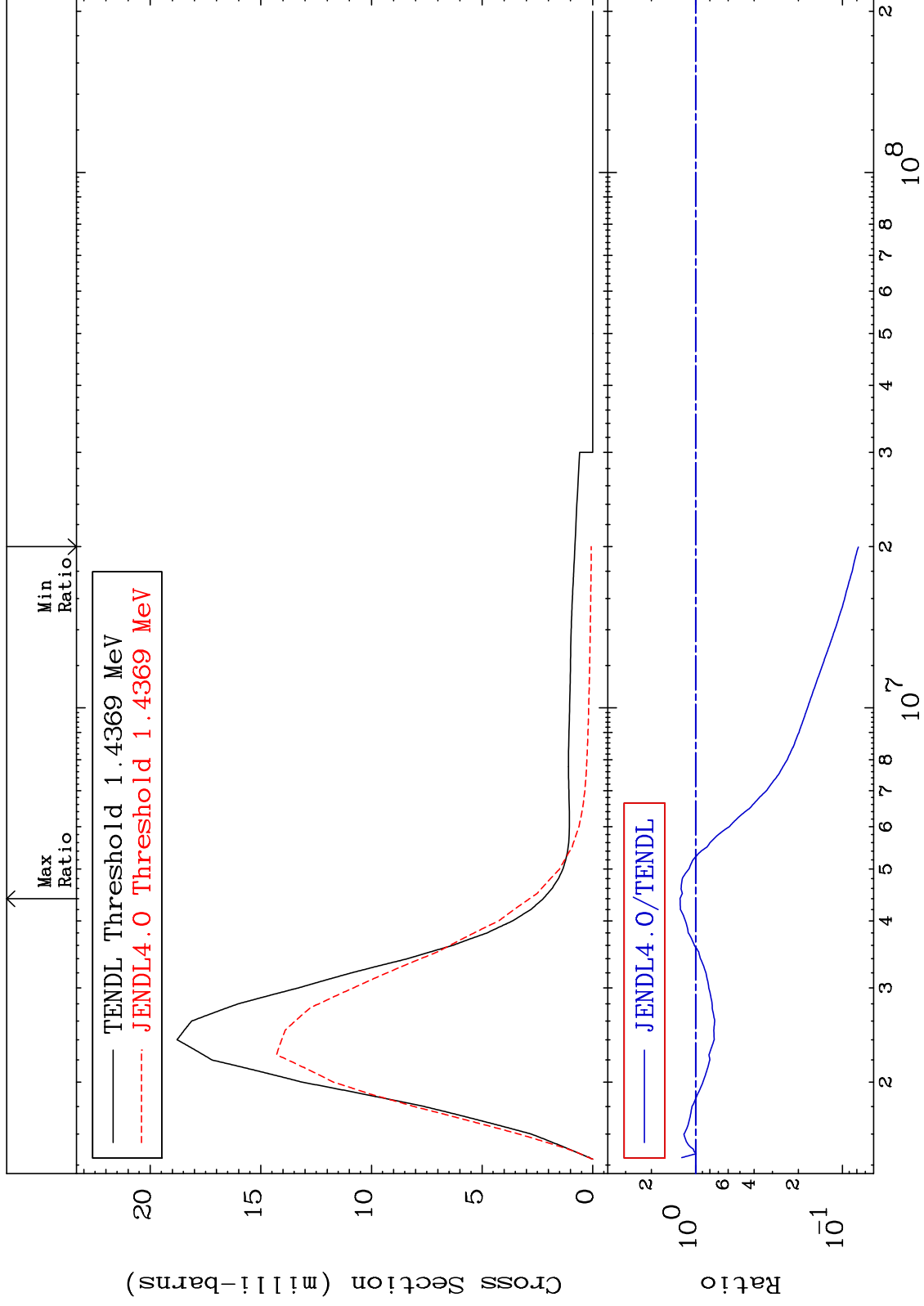
MAT 6449 MT= 74 (n,n') Level 64-Gd-160
 Cross Section -92.01 To 16.86 %



MAT 6449

MT= 75 (n,n') Level
Cross Section

64-Gd-160
-92.21 To 27.83 %



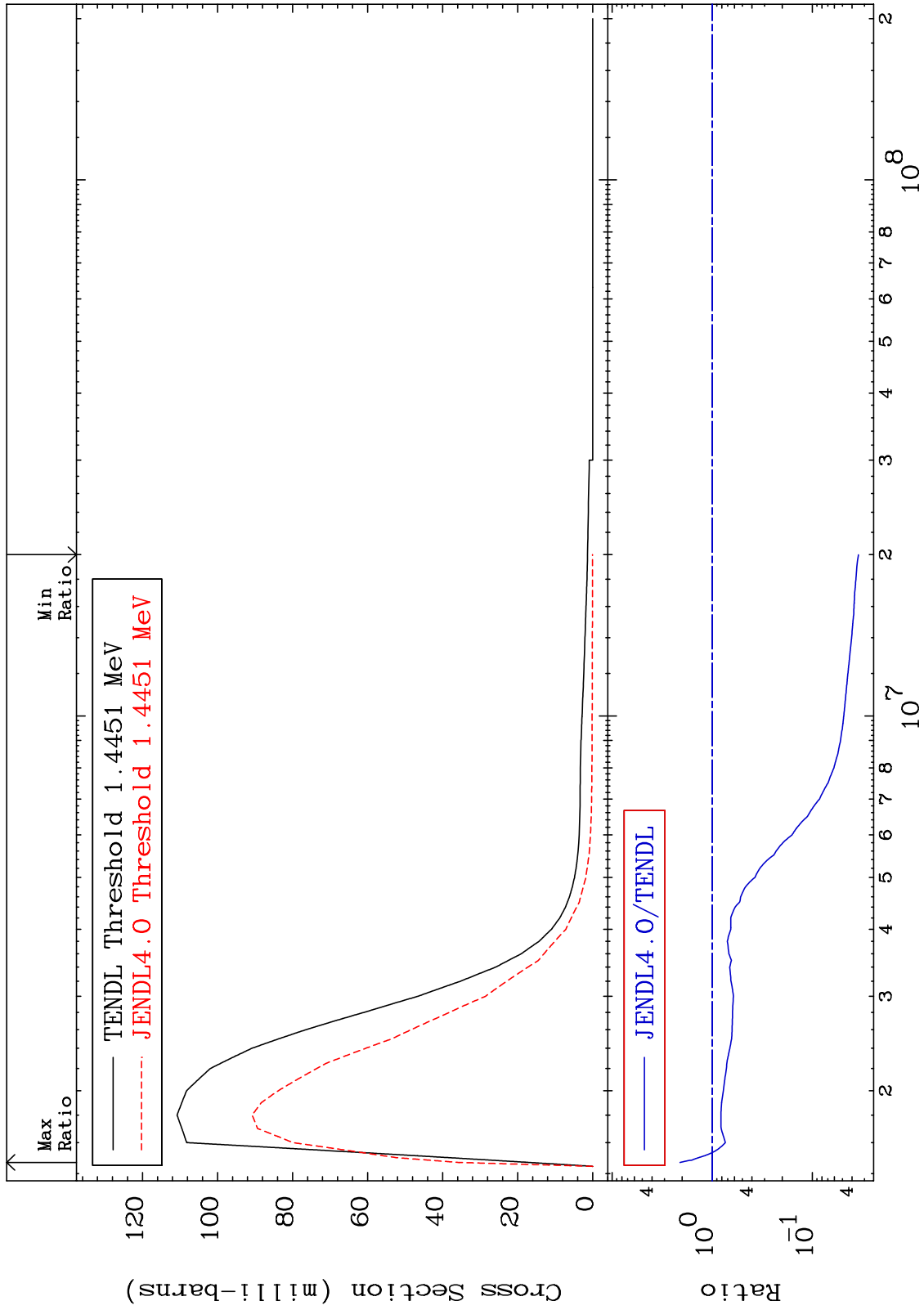
35

64-Gd-160

MAT 6449

MT= 76 (n,n') Level
Cross Section

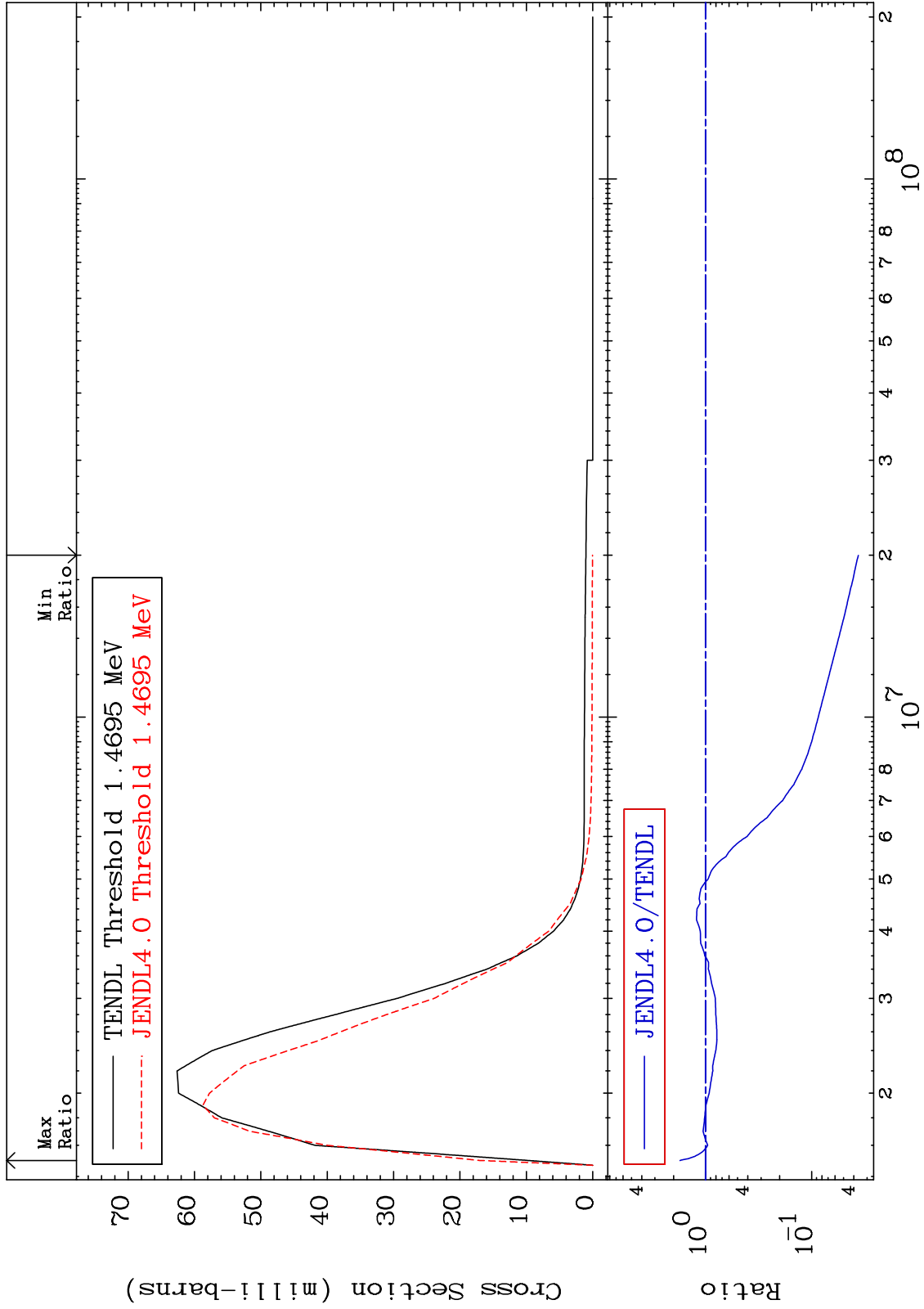
64-Gd-160
-96.54 To 109.8 %



MAT 6449

MT= 77 (n,n') Level
Cross Section

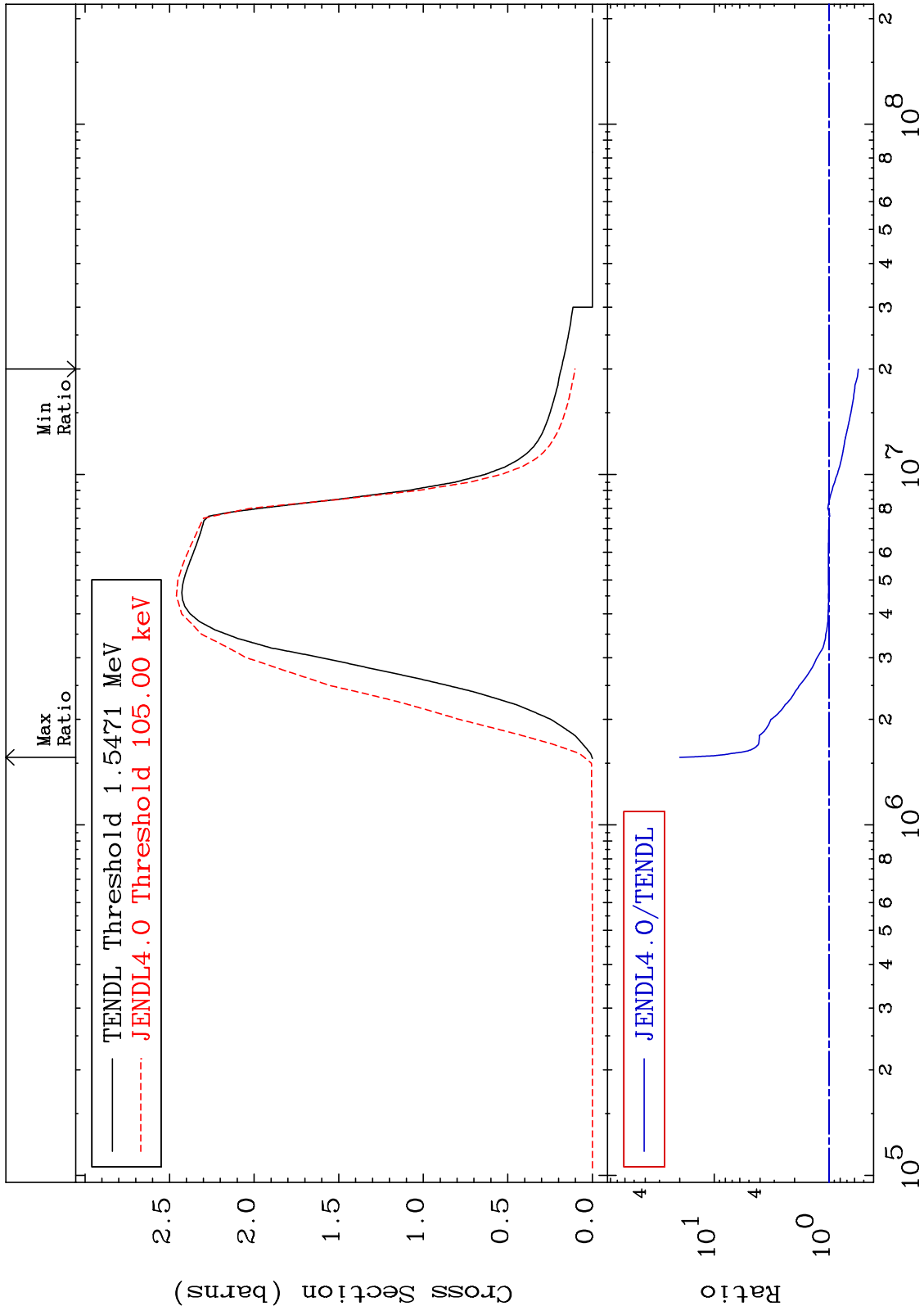
64-Gd-160
-96.38 To 74.14 %



MAT 6449

(n, n') Continuum
Cross Section

64-Gd-160
-44.34 To 1897. %



38

Incident Energy (eV)

64-Gd-160

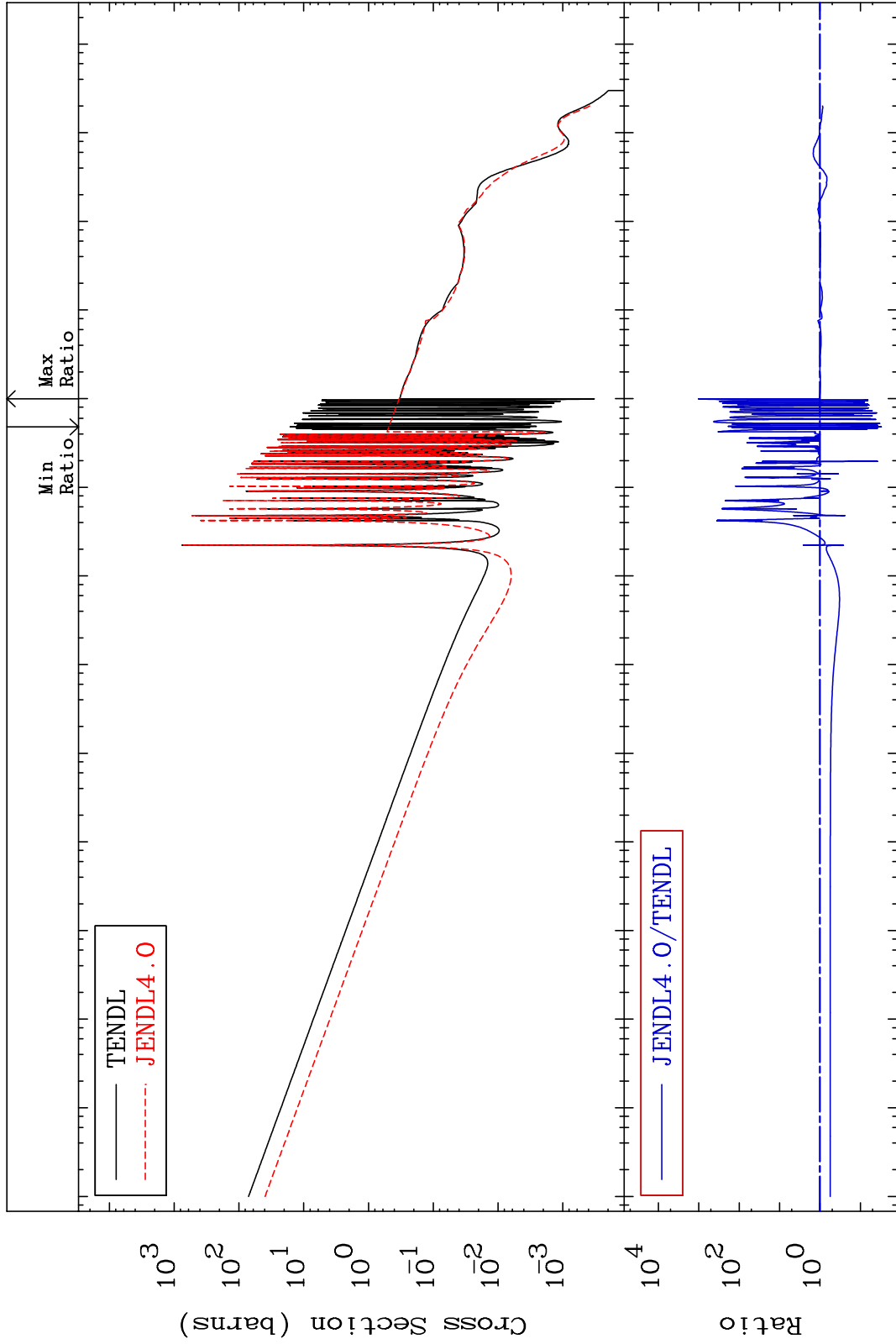
MAT 6449

(n, γ)

64-Gd-160

Cross Section

-97.01 To 9999. %



Incident Energy (eV)

39

64-Gd-160

64-Gd-160

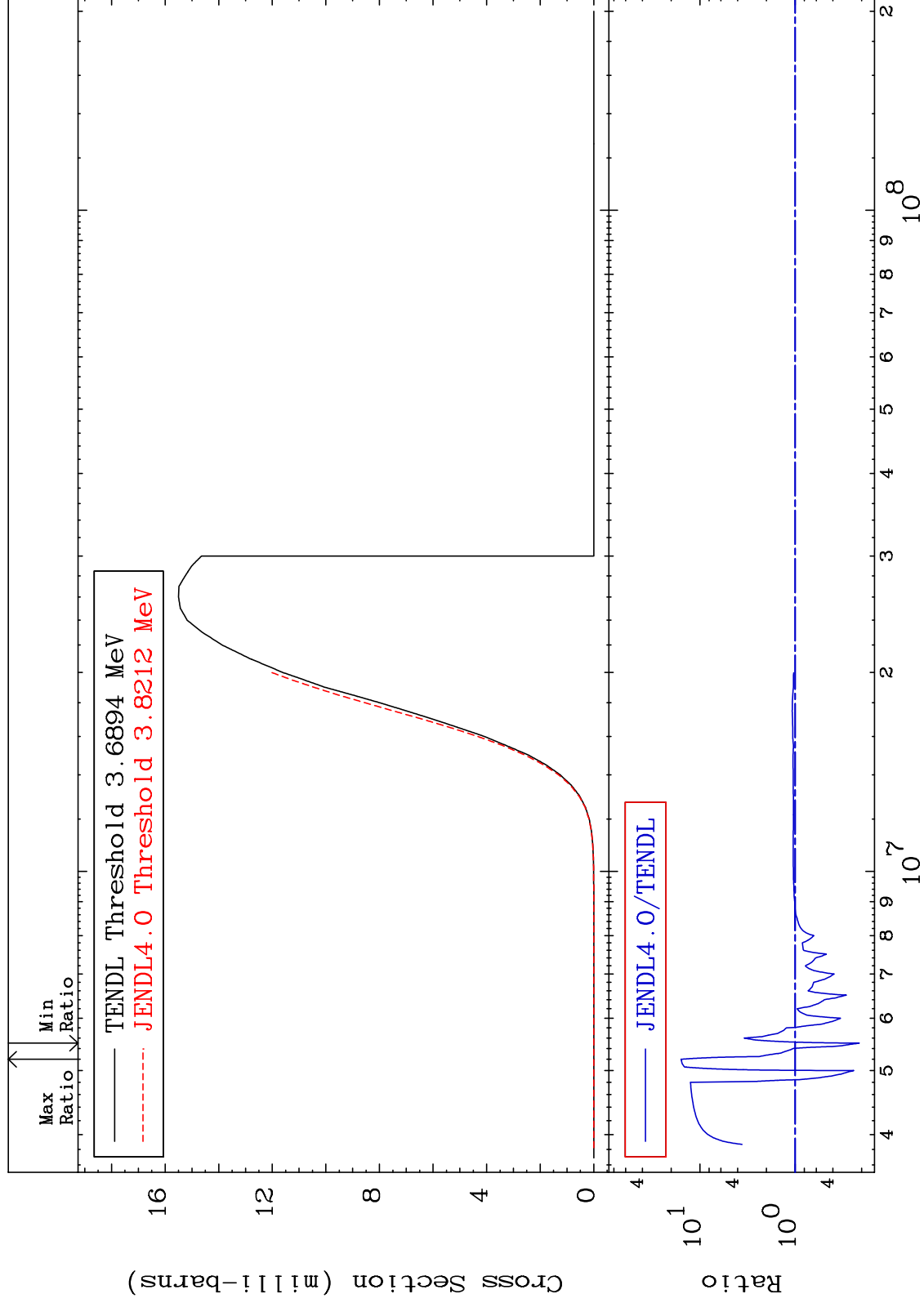
MAT 6449

(n,p)

64-Gd-160

Cross Section

-78.83 To 1475. %



40

Incident Energy (eV)

64-Gd-160

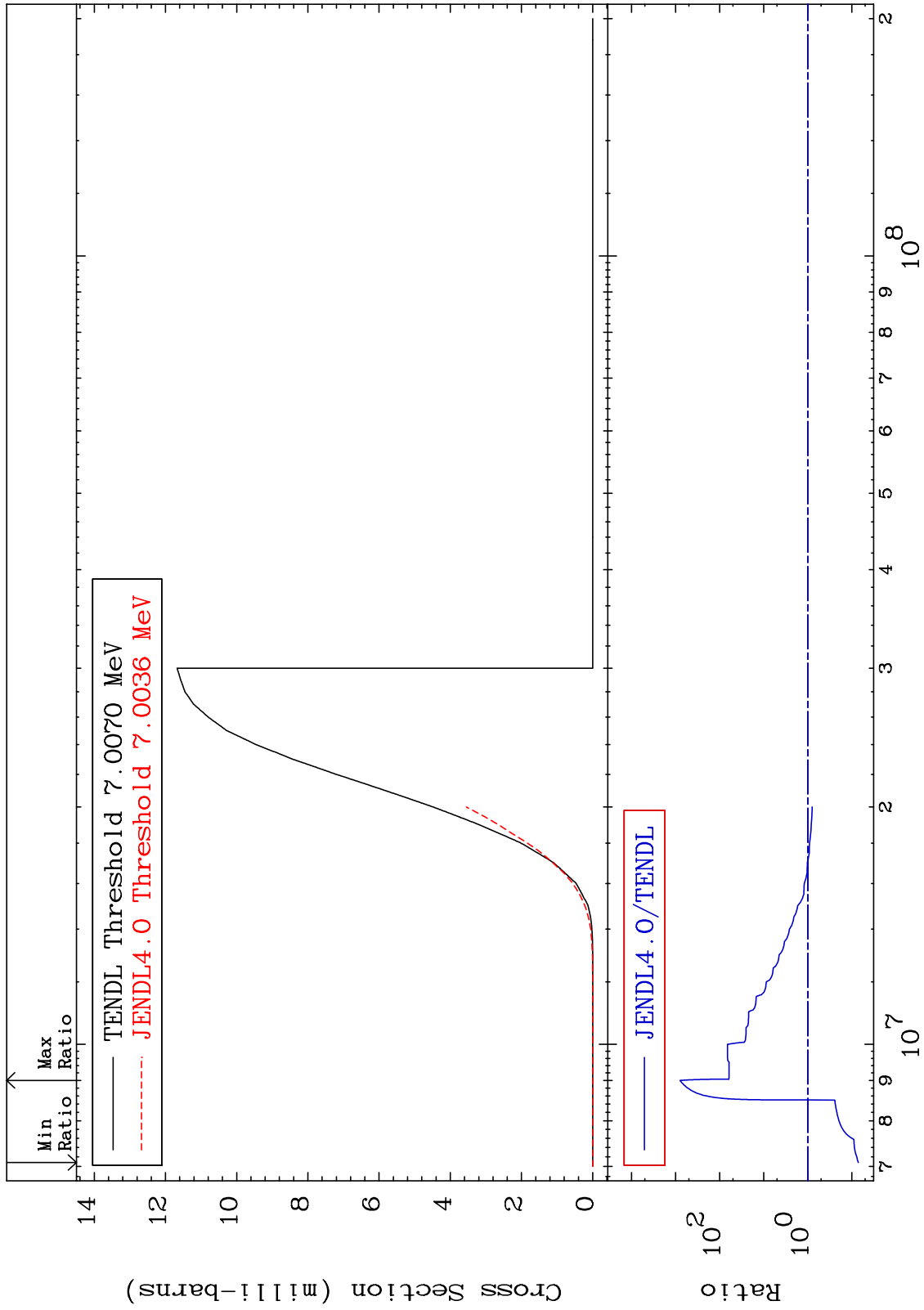
MAT 6449

(n, d)

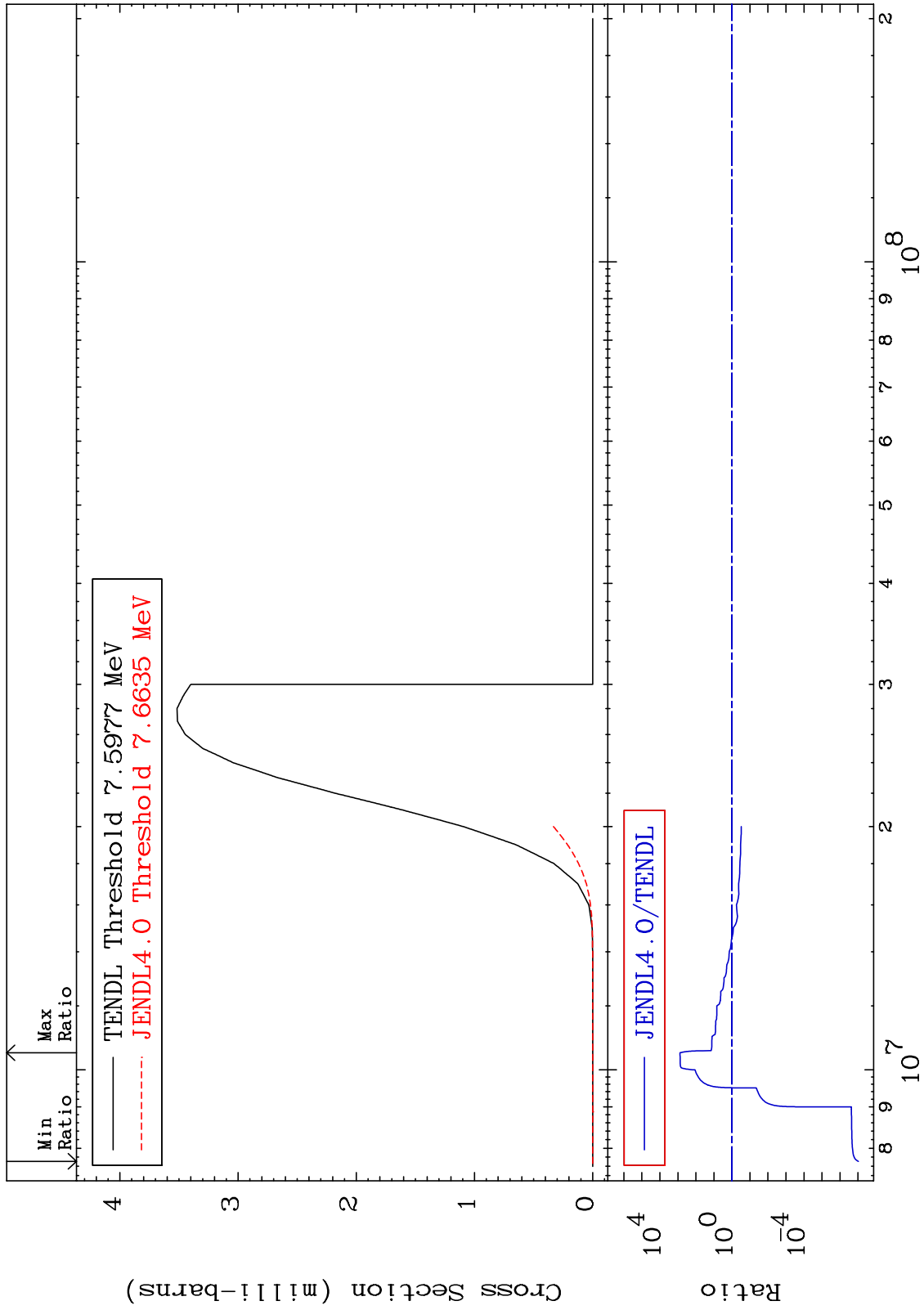
64-Gd-160

Cross Section

-92.91 To 9999. %



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



64-Gd-160

Incident Energy (eV)

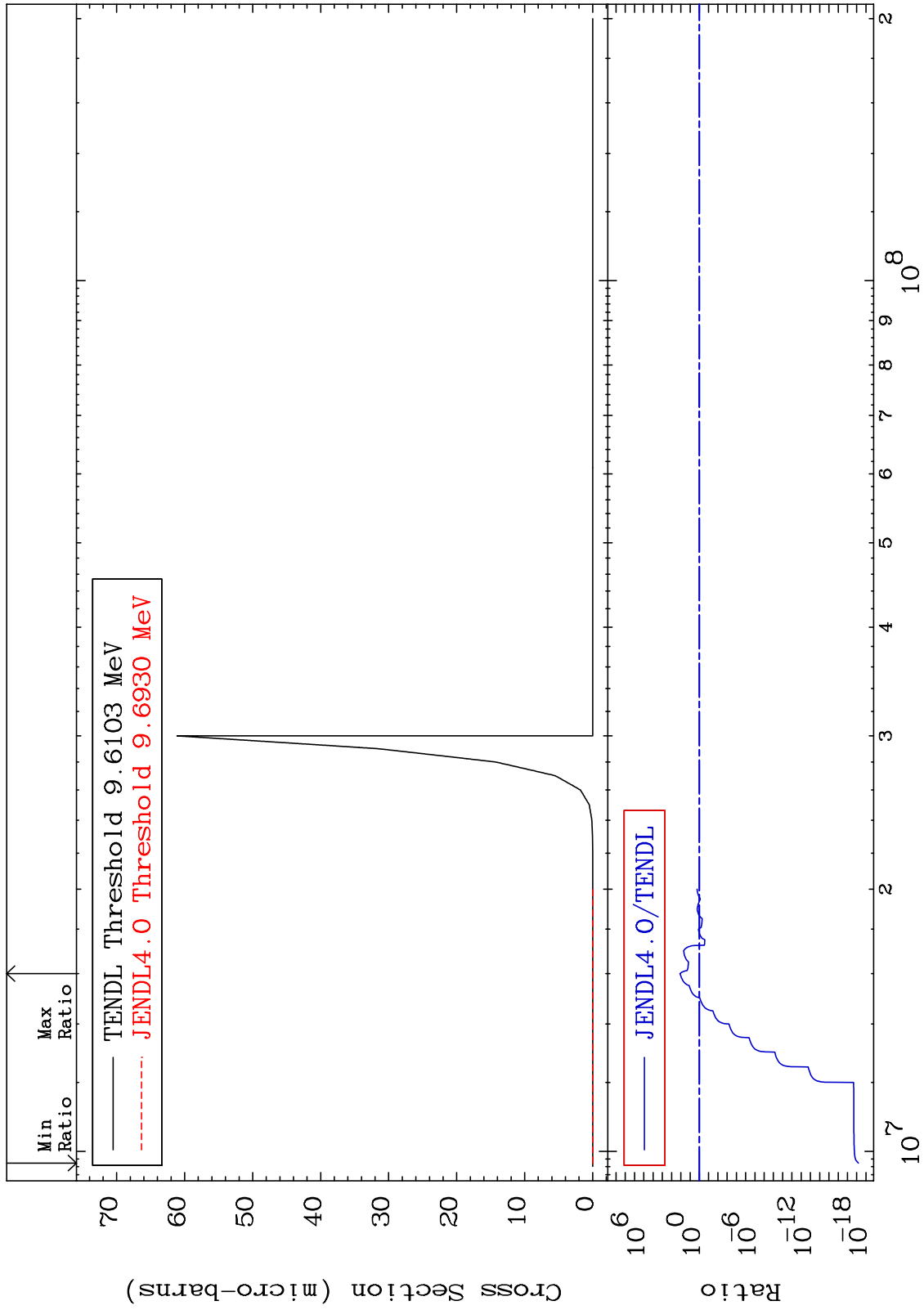
MAT 6449

(n, He-3)

64-Gd-160

Cross Section

-100.0 To 9999. %



43

Incident Energy (eV)

64-Gd-160

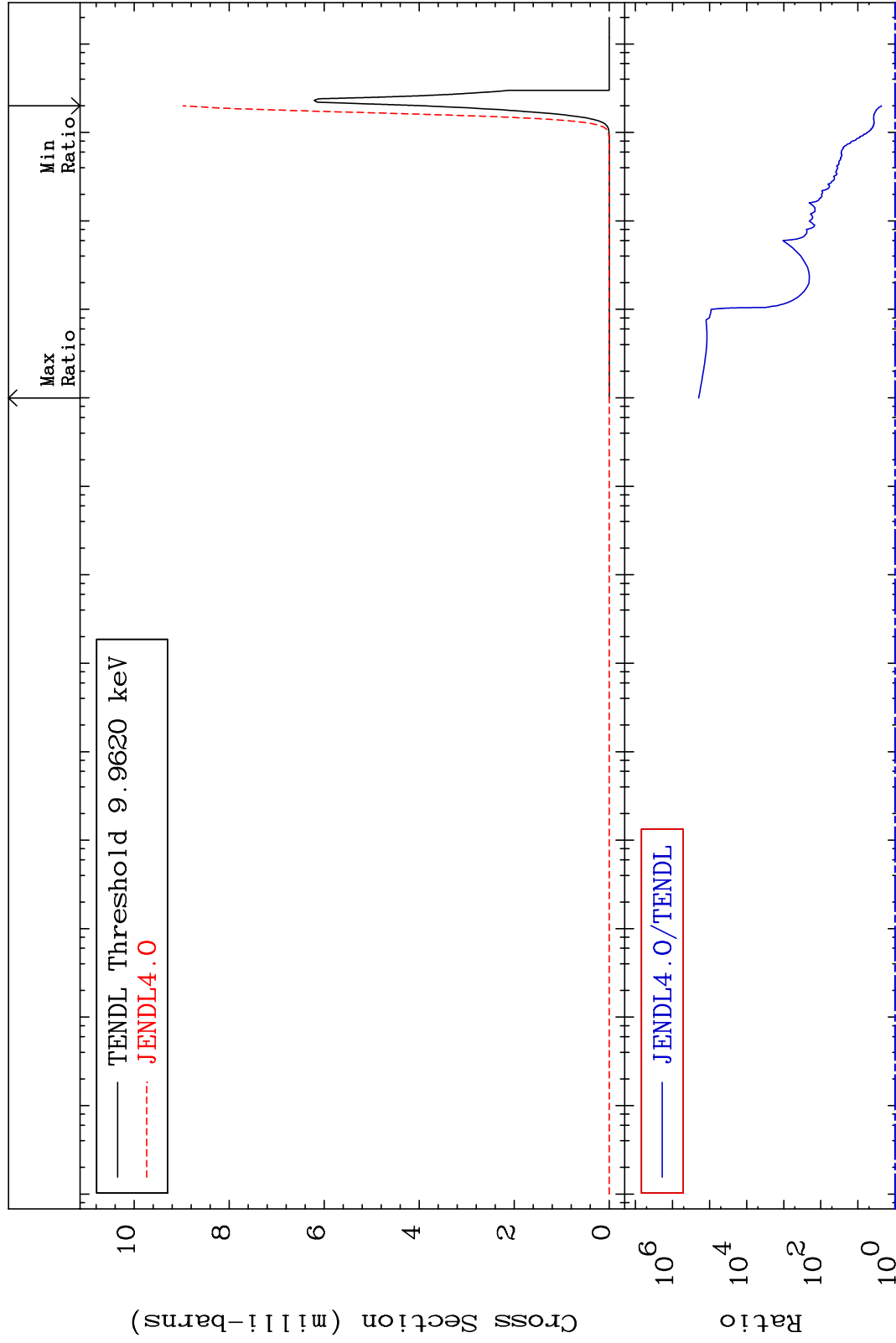
MAT 6449

(n, α)

64-Gd-160

Cross Section

130.1 To 9999. %



44

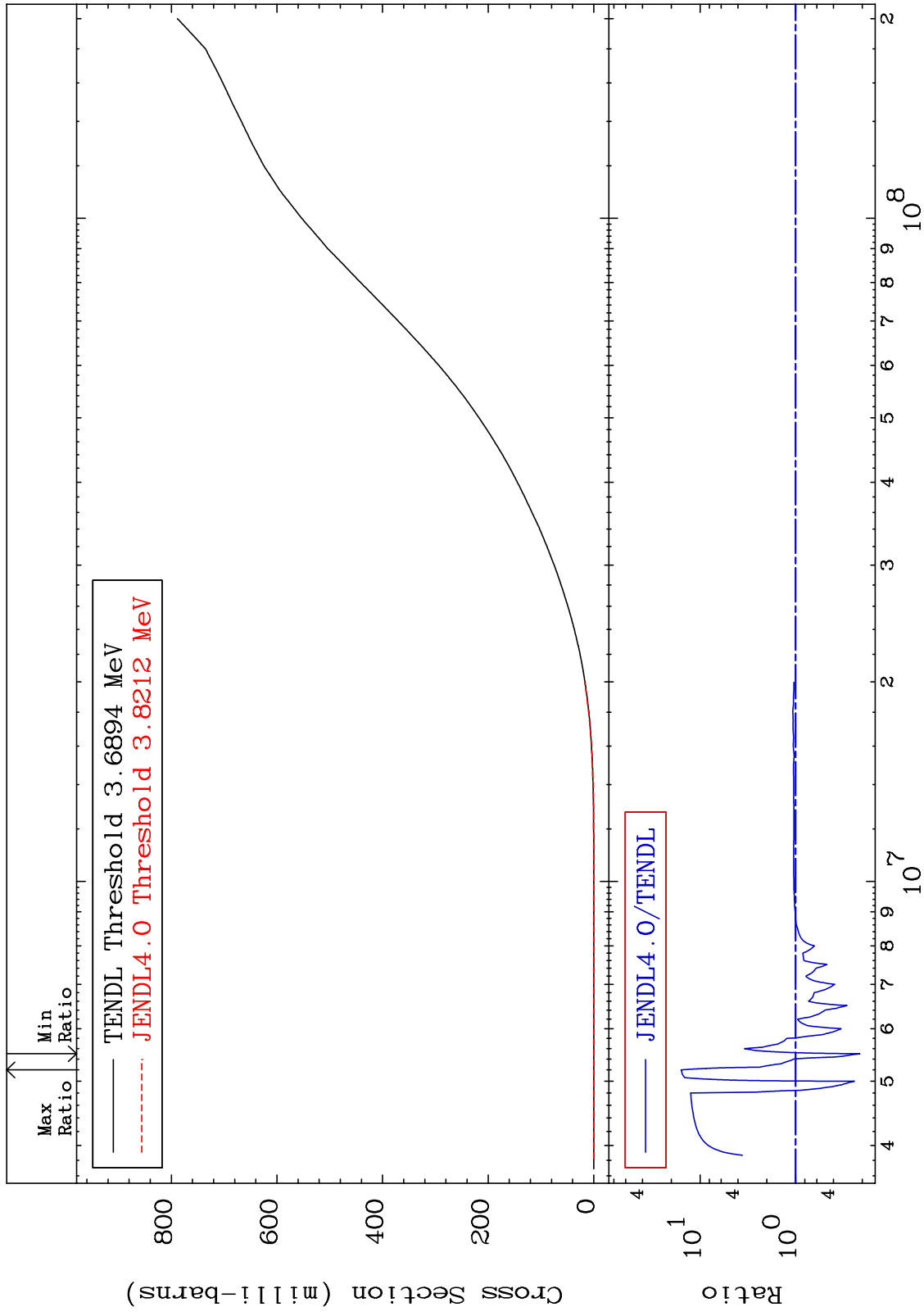
Incident Energy (eV)

64-Gd-160

MAT 6449

Hydrogen Production
Cross Section

64-Gd-160
-78.83 To 1475. %



45

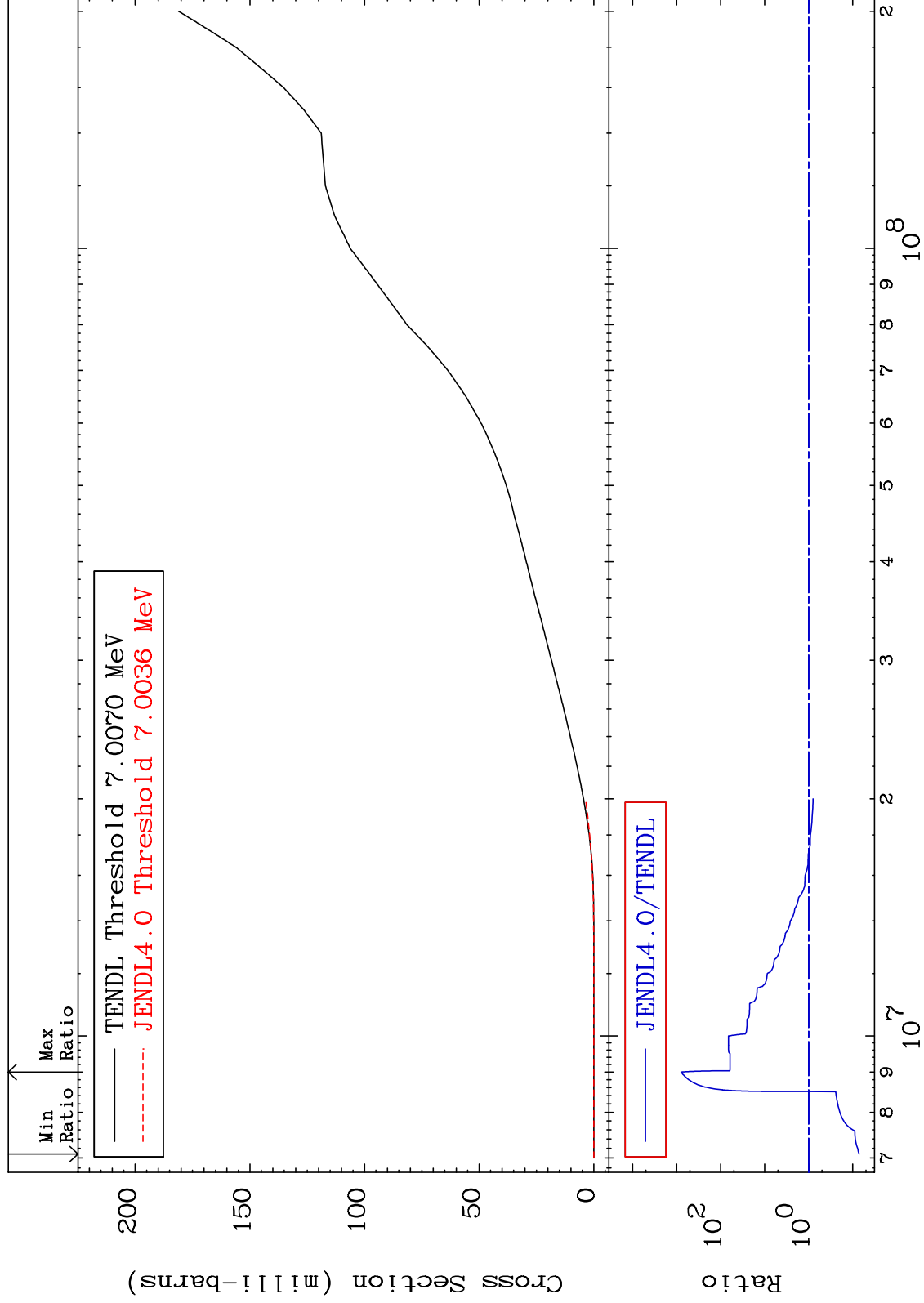
Incident Energy (eV)

64-Gd-160

MAT 6449

Deuterium Production
Cross Section

64-Gd-160
-92.91 To 9999. %



46

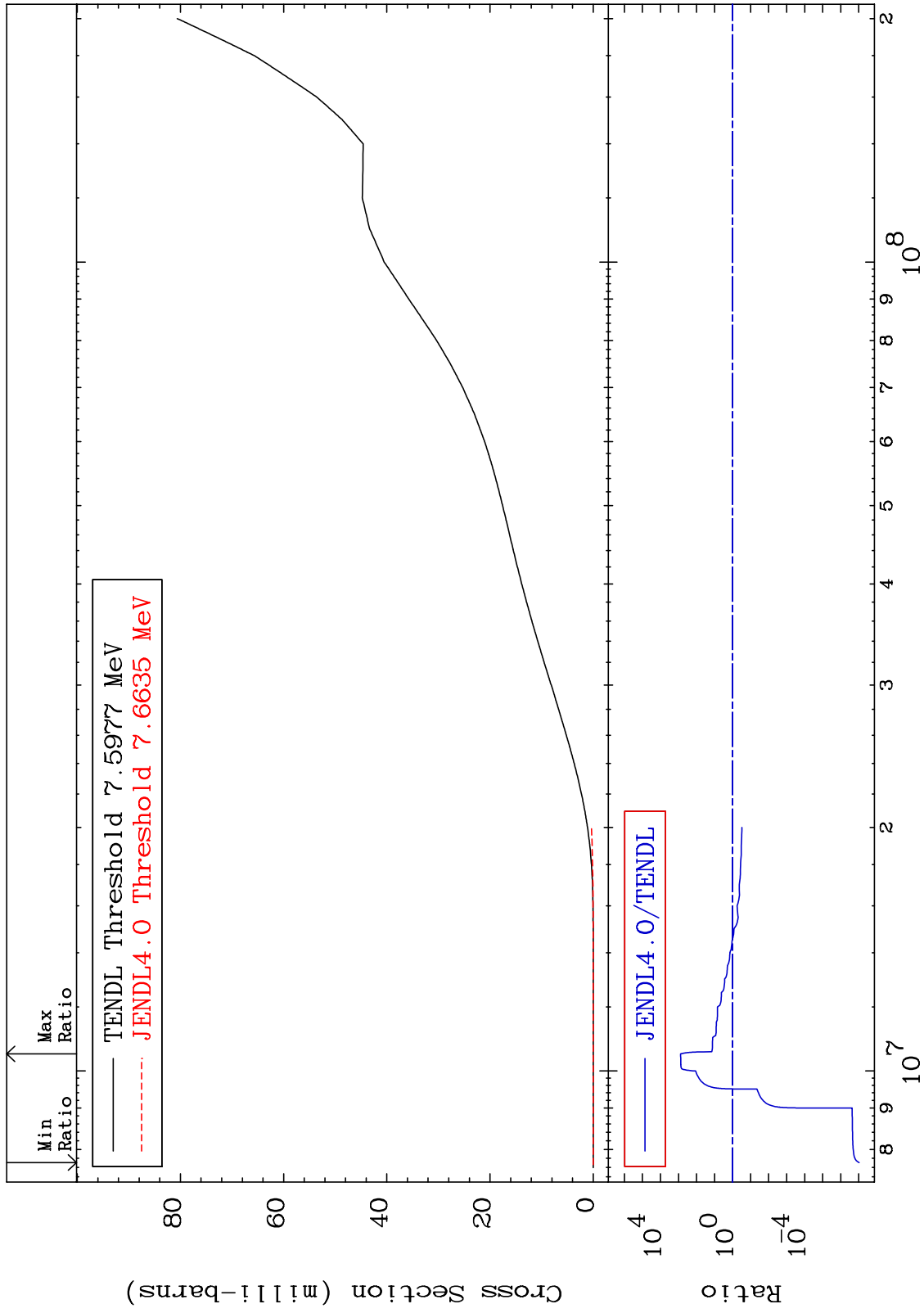
Incident Energy (eV)

64-Gd-160

MAT 6449

Tritium Production
Cross Section

64-Gd-160
-100.0 To 9999. %



47

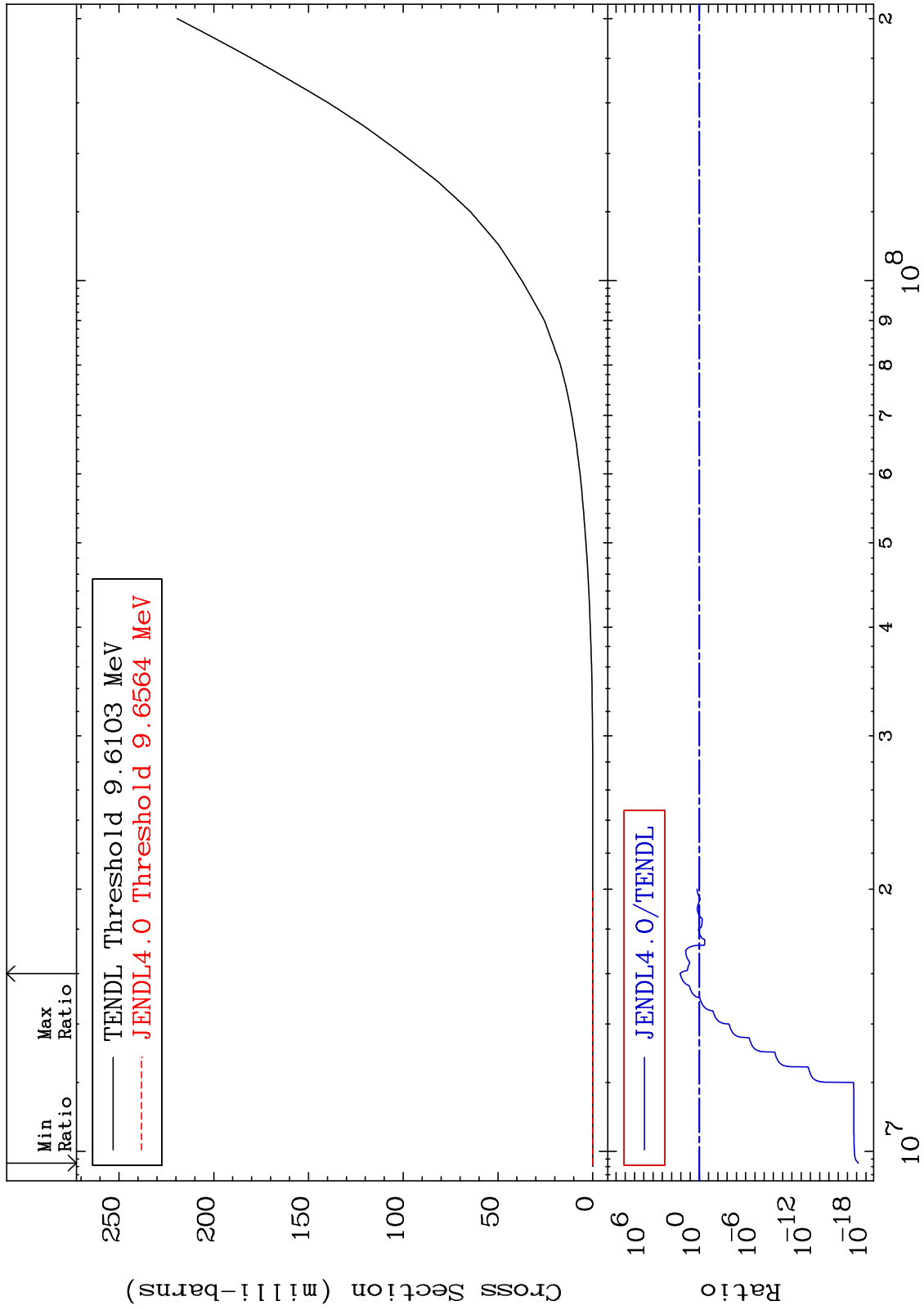
Incident Energy (eV)

64-Gd-160

MAT 6449

He-3 Production
Cross Section

64-Gd-160
-100.0 To 9999. %



48

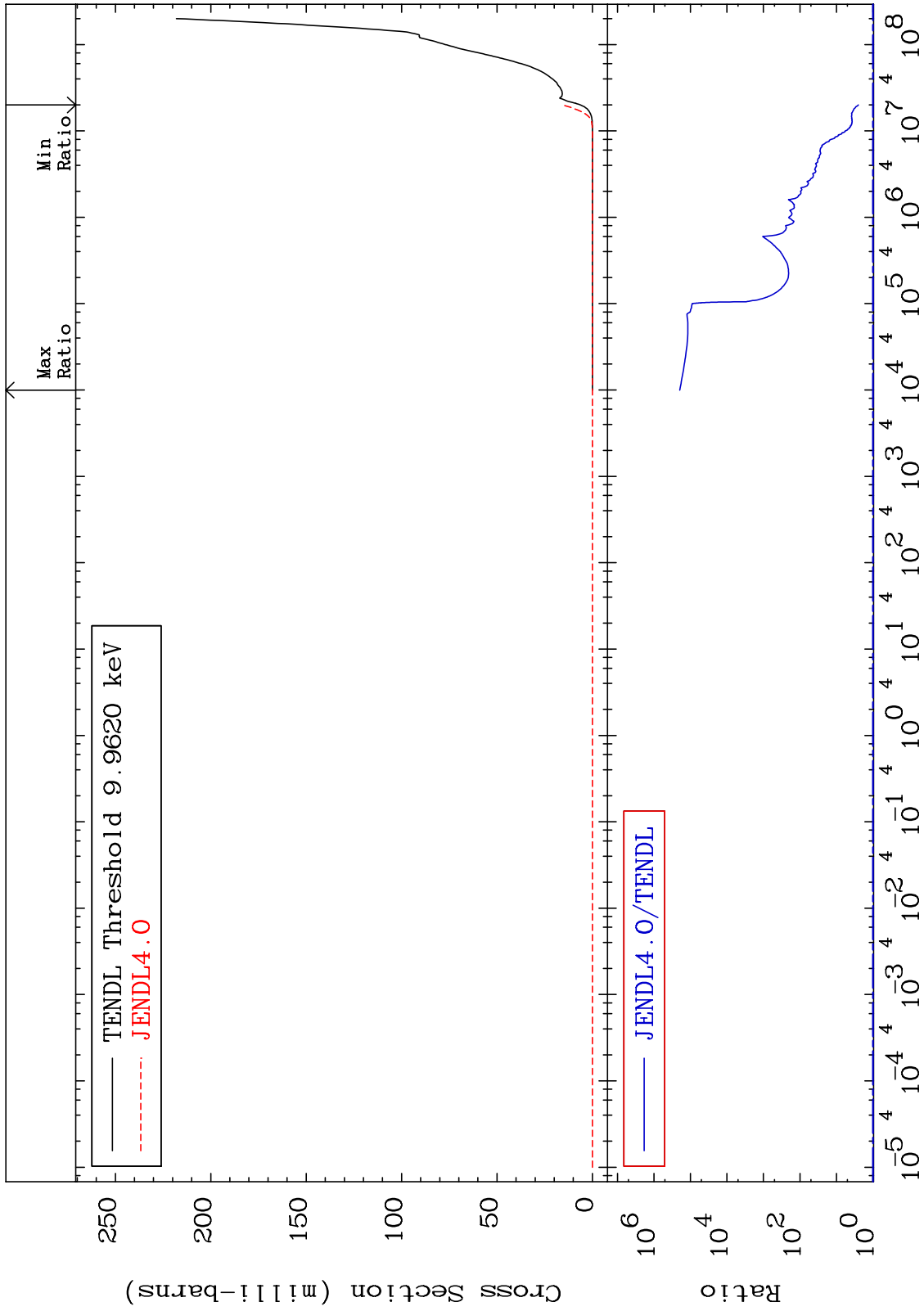
Incident Energy (eV)

64-Gd-160

MAT 6449

He-4 Production
Cross Section

64-Gd-160
150.8 To 9999. %



49

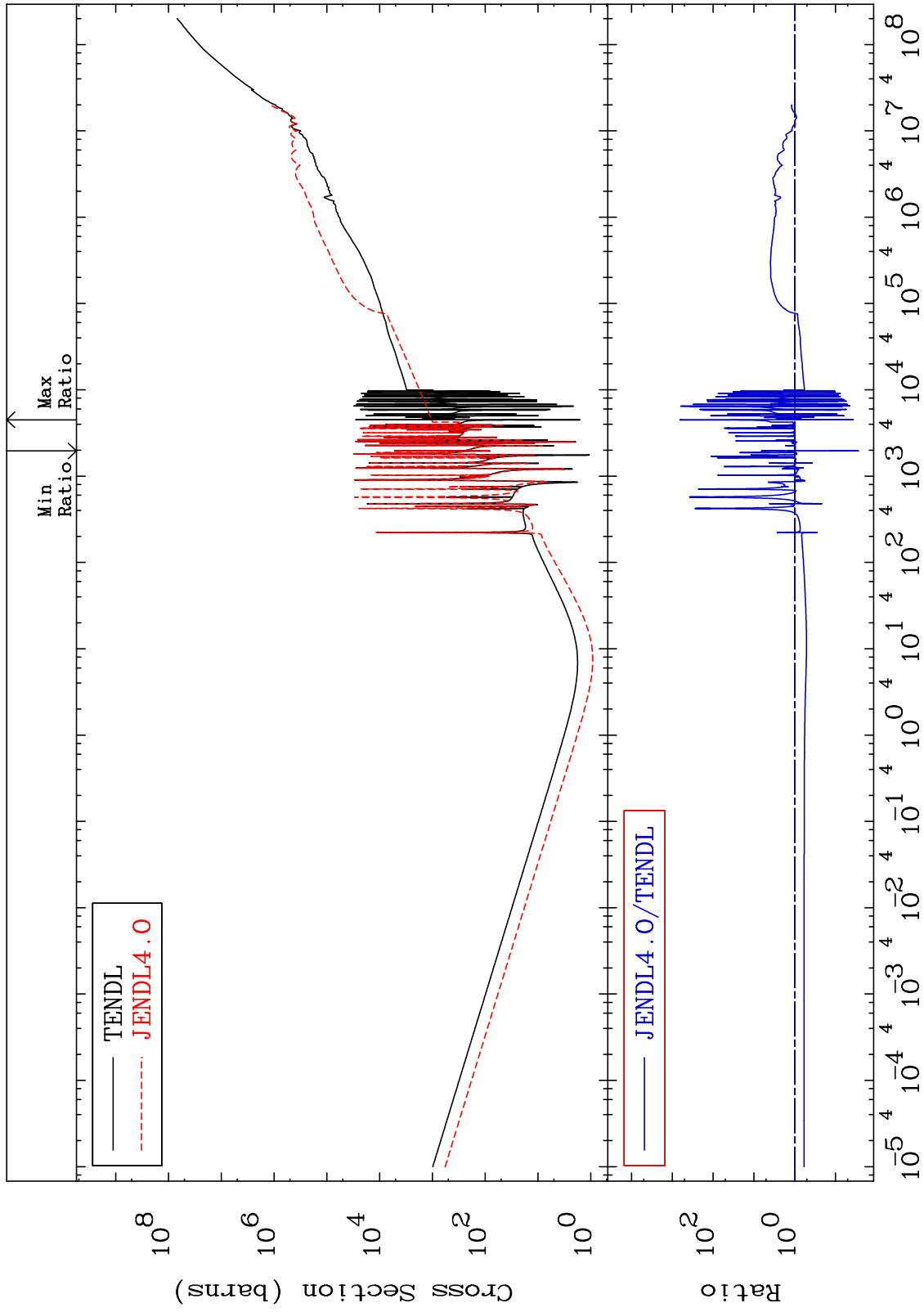
Incident Energy (eV)

64-Gd-160

MAT 6449

Kerma total (eV-barns)
Cross Section

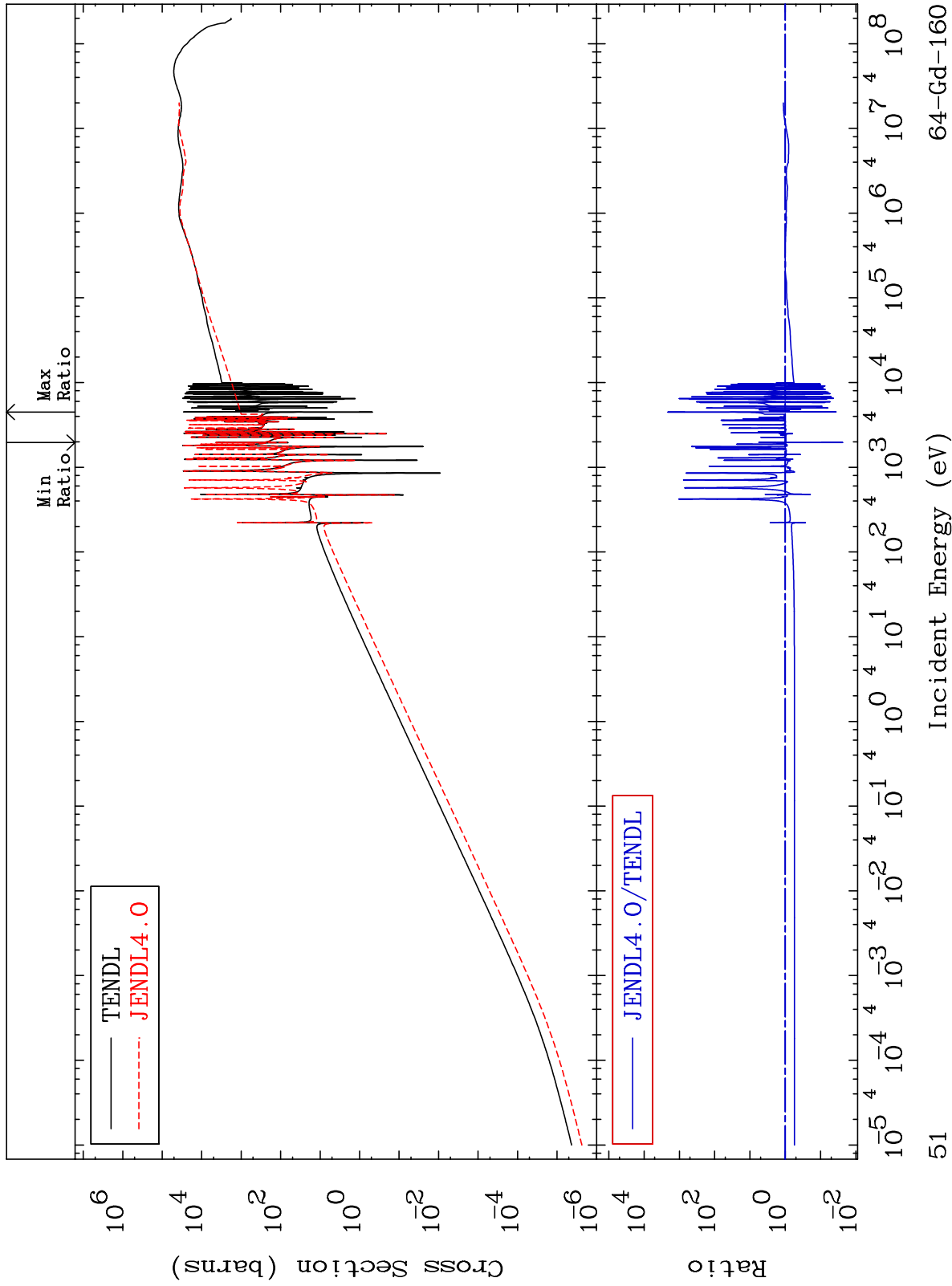
64-Gd-160
-97.28 To 9999. %



MAT 6449

Kerma elastic
Cross Section

64-Gd-160
-97.64 To 9999. %



51

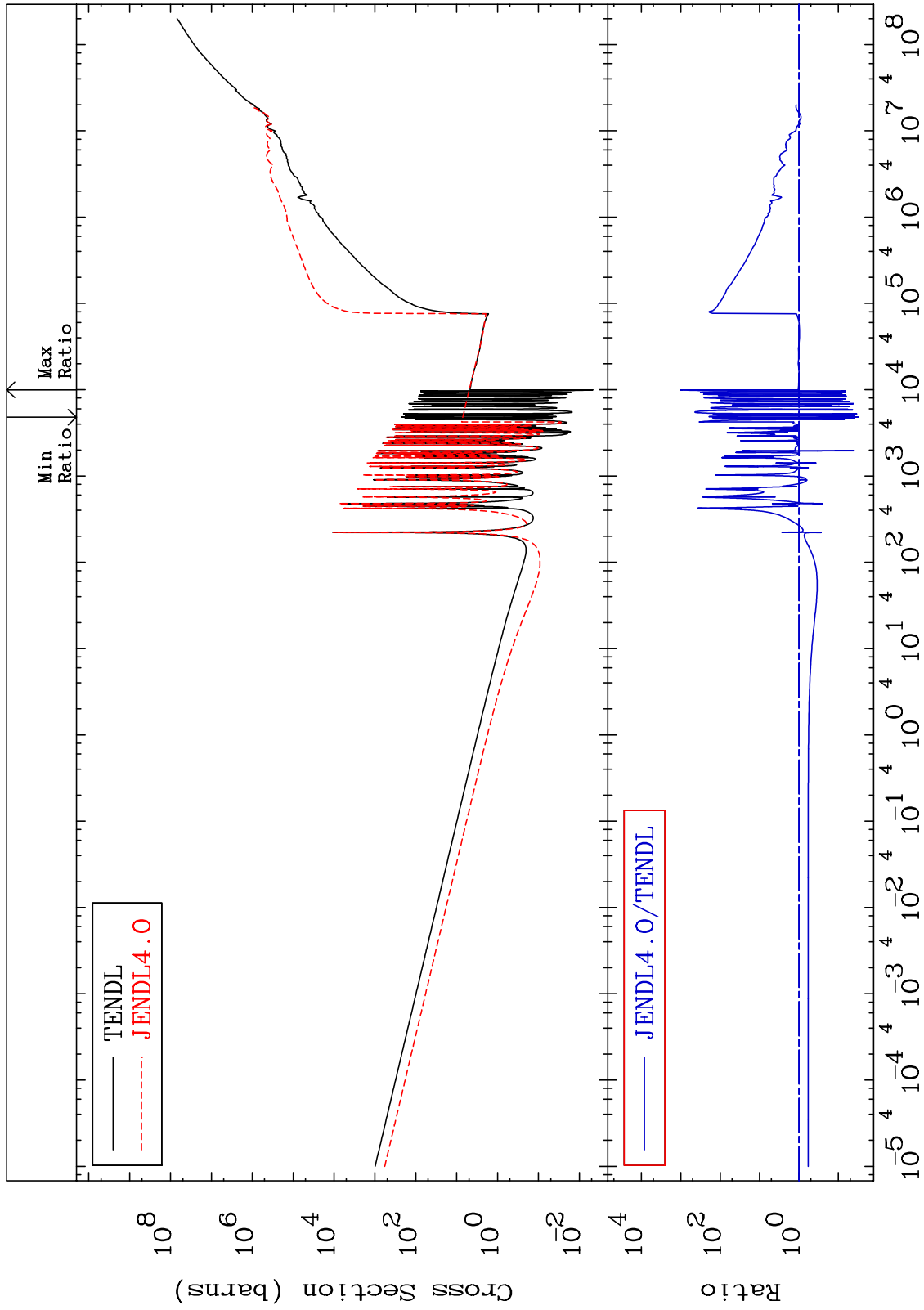
Incident Energy (eV)

64-Gd-160

MAT 6449

Kerma non-elastic (all but mt2)
Cross Section

64-Gd-160
-96.91 To 9999. %

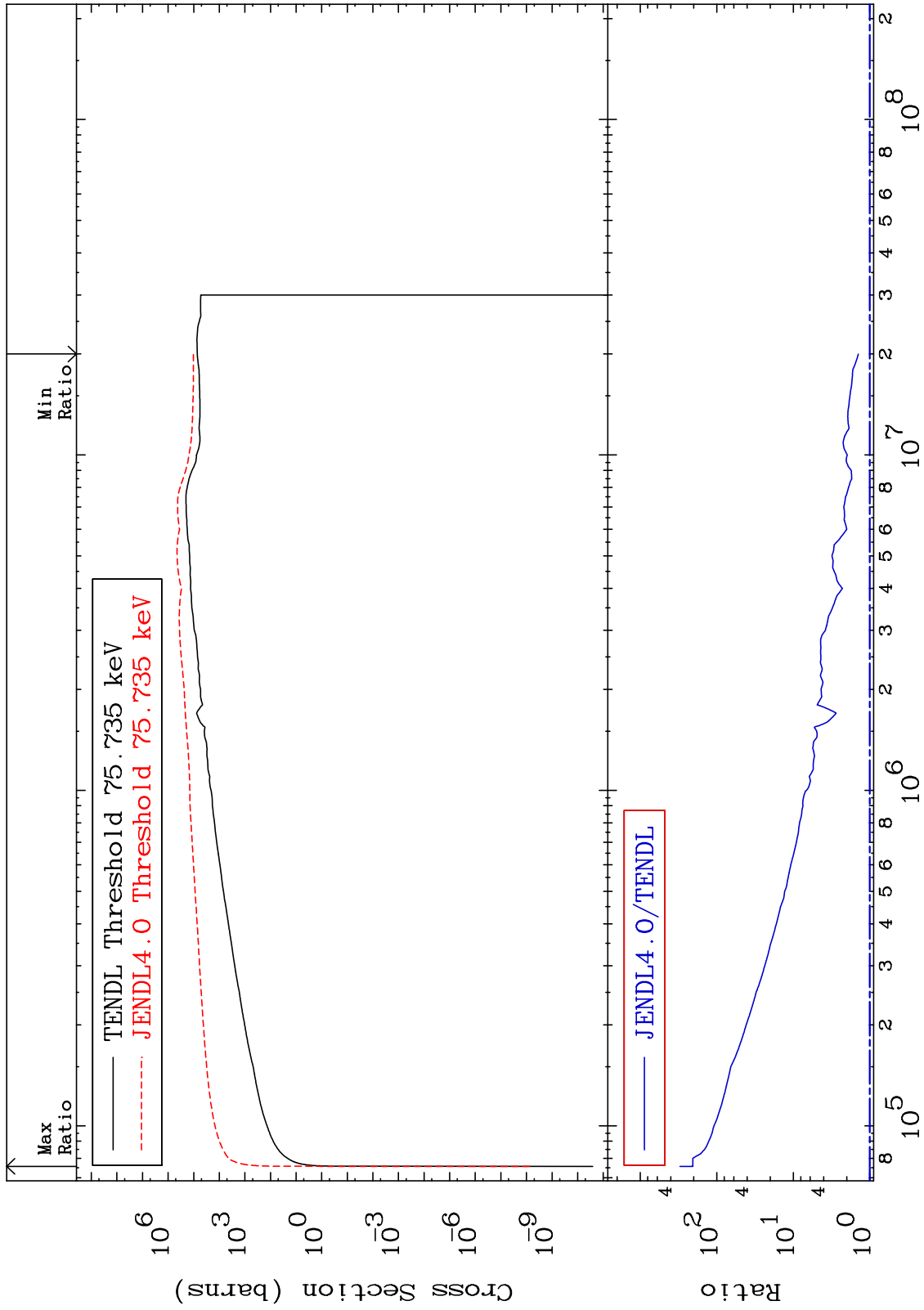


52

Incident Energy (eV)

64-Gd-160

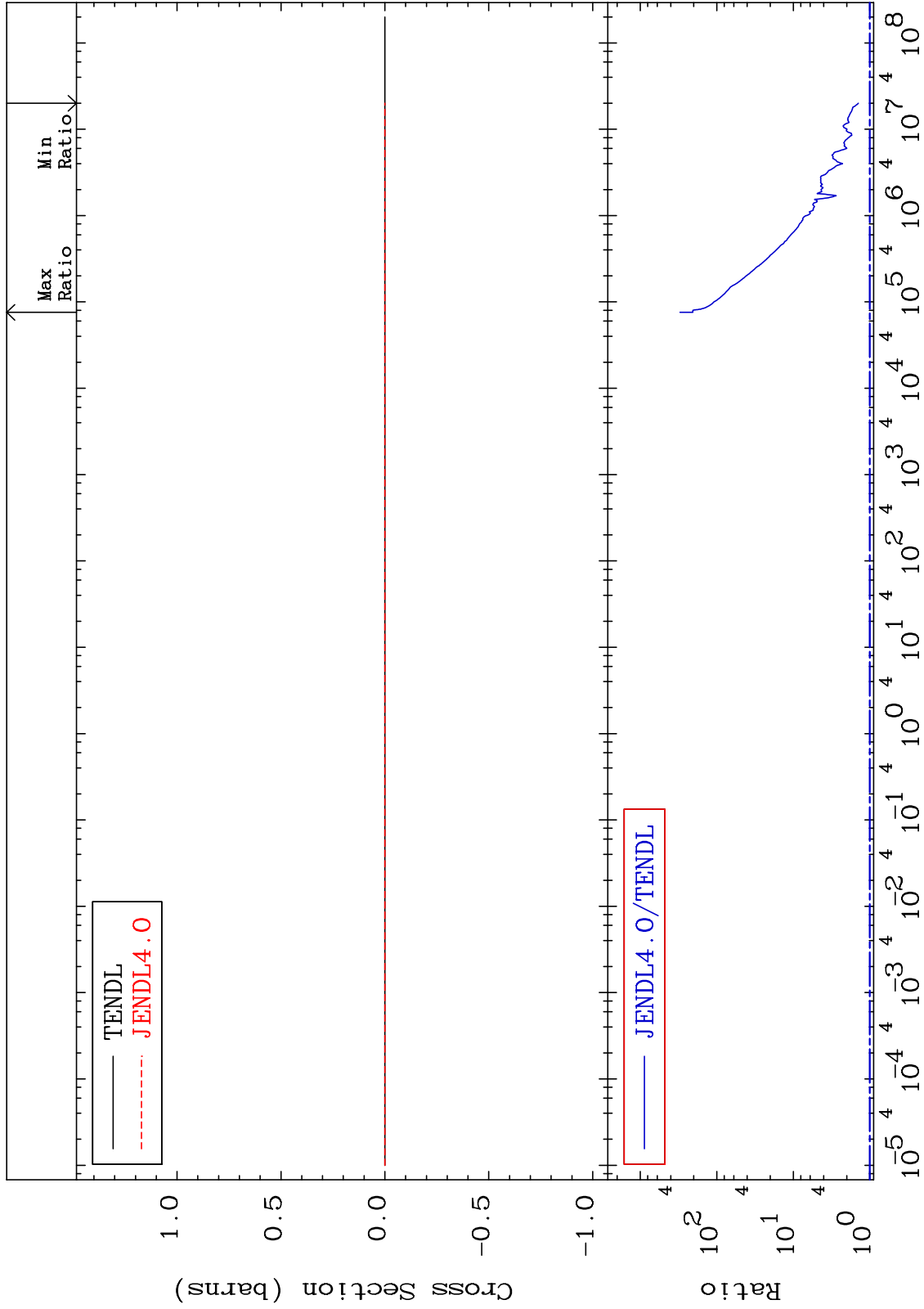
MAT 6449 Kerma inelastic (mt51-91) 64-Gd-160
Cross Section 40.82 To 9999. %



MAT 6449

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

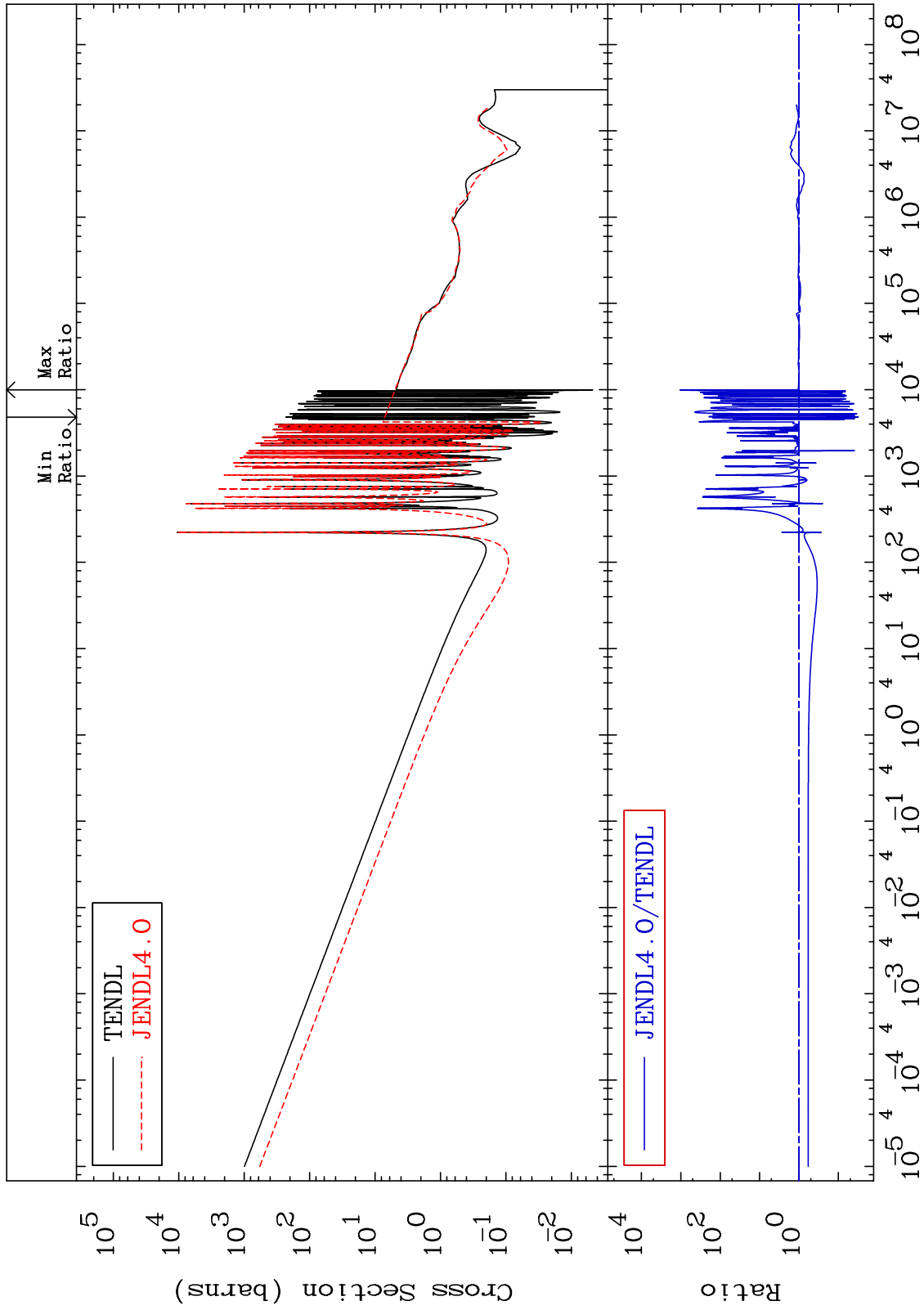
64-Gd-160
40.82 To 9999. %



MAT 6449

Kerma capture (mt102)
Cross Section

64-Gd-160
-96.91 To 9999. %



55

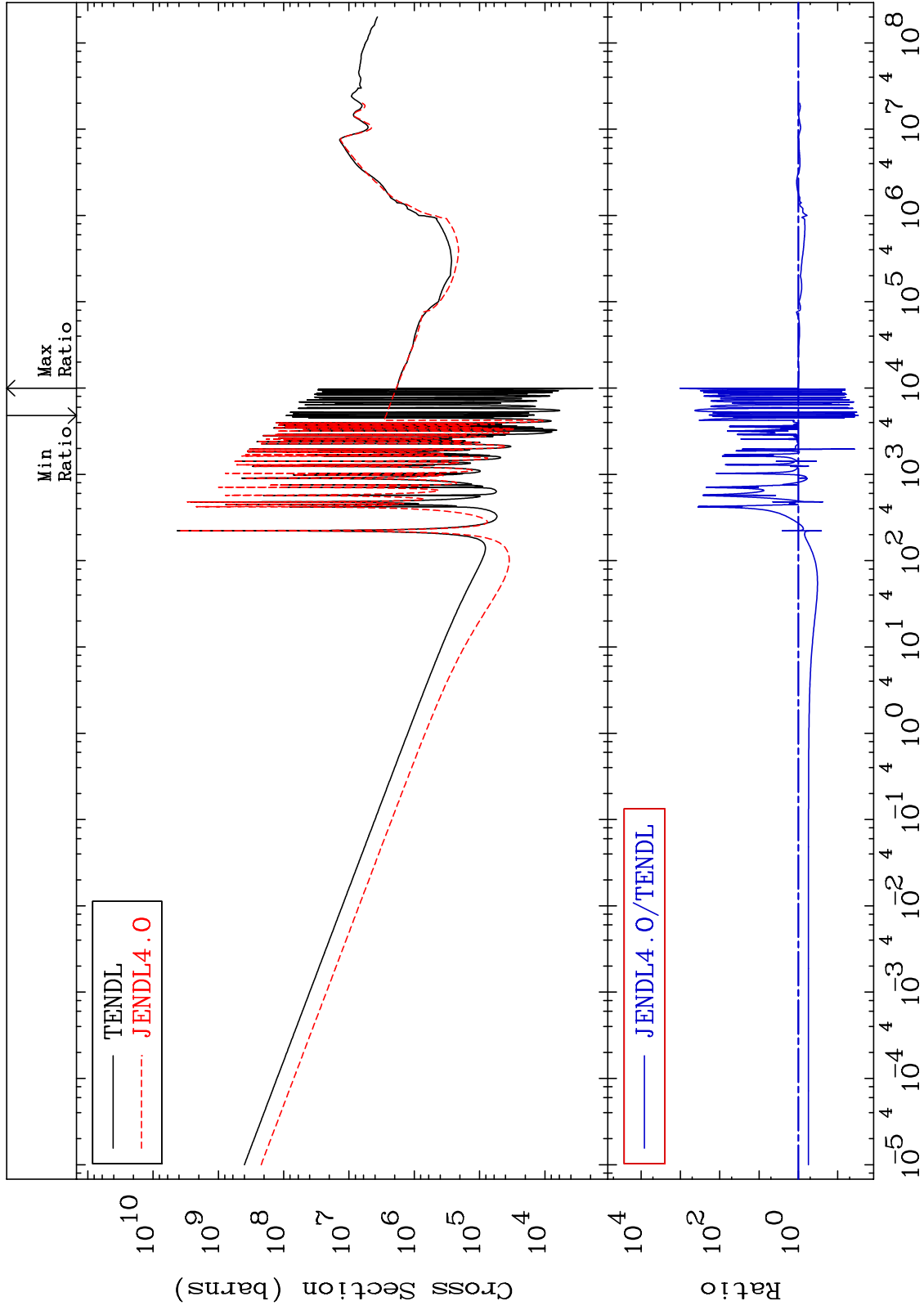
Incident Energy (eV)

64-Gd-160

MAT 6449

Total photon (eV-barns)
Cross Section

64-Gd-160
-97.02 To 9999. %



56

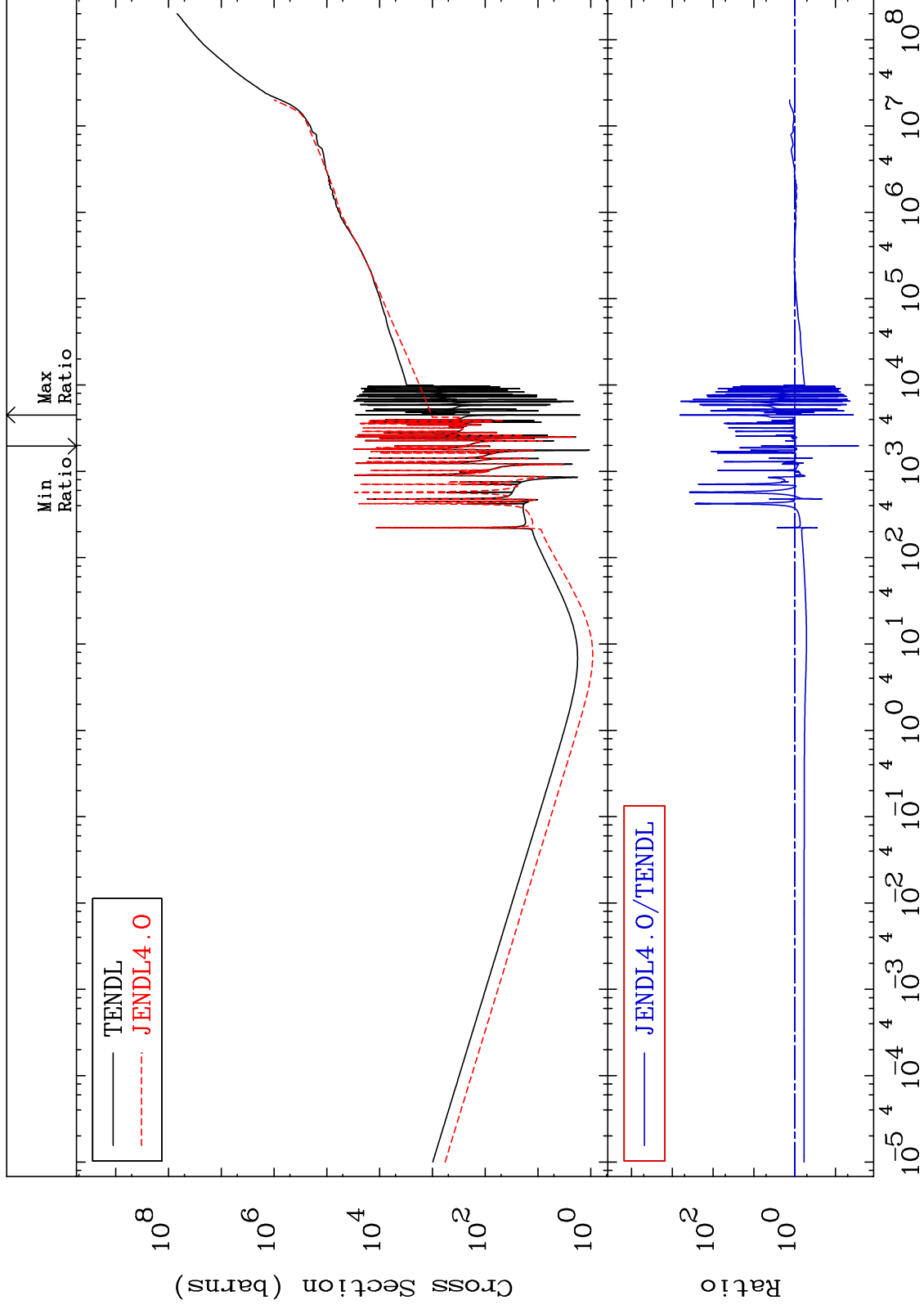
Incident Energy (eV)

64-Gd-160

MAT 6449

Total kinematic kerma (high limit)
Cross Section

64-Gd-160
-97.28 To 9999. %



57

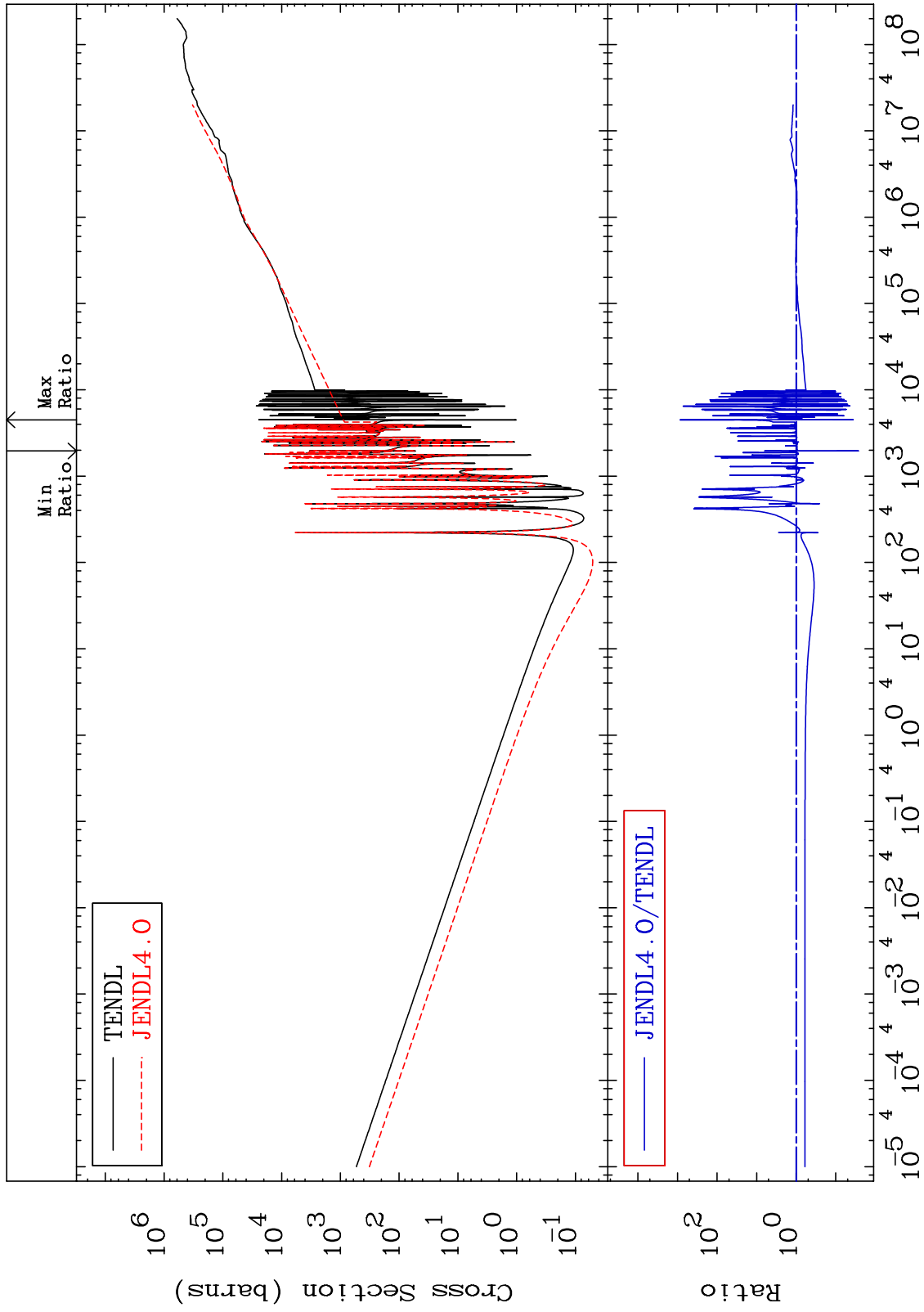
Incident Energy (eV)

64-Gd-160

MAT 6449

Dpa total (eV-barns)
Cross Section

64-Gd-160
-97.32 To 9999. %



58

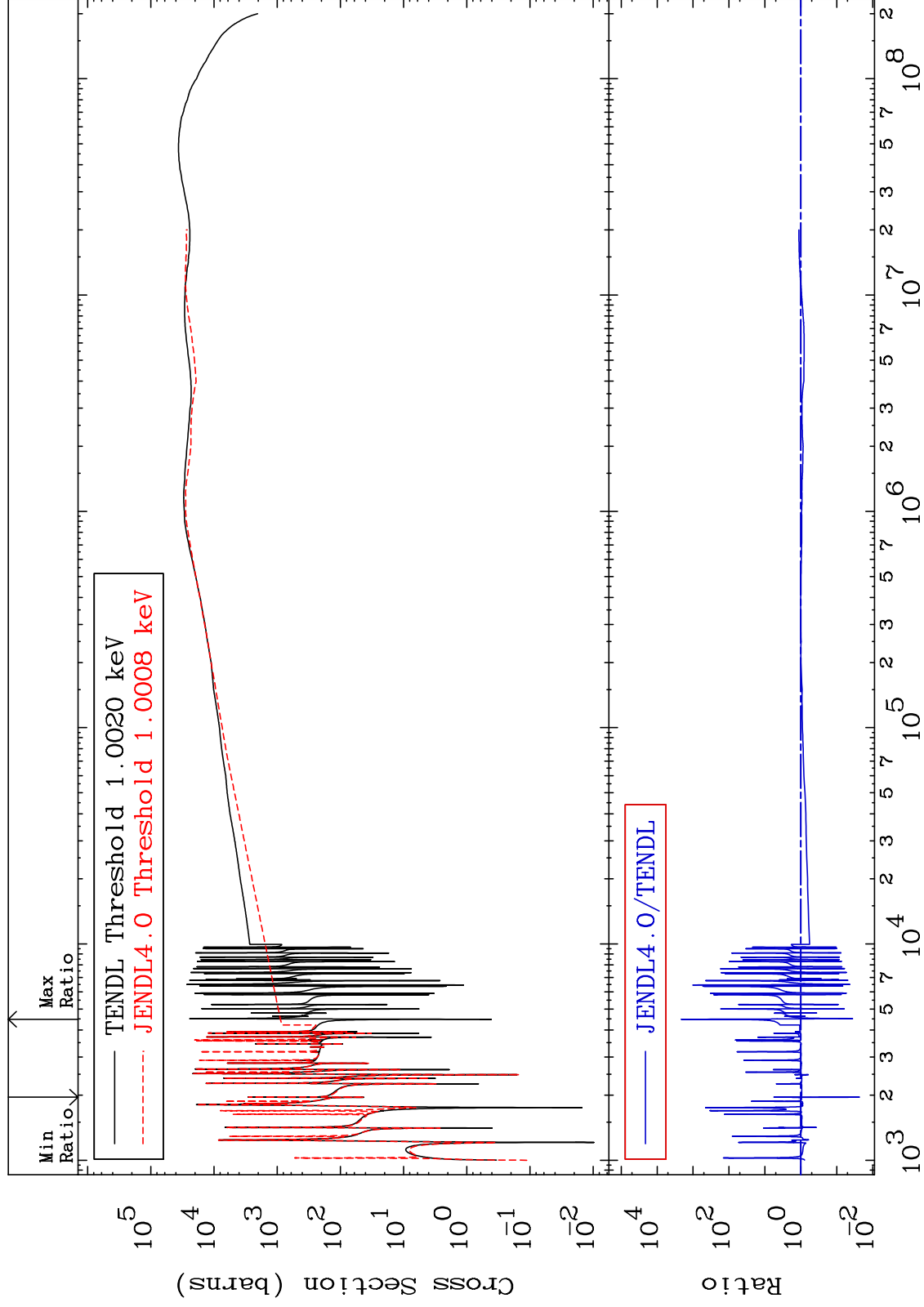
Incident Energy (eV)

64-Gd-160

MAT 6449

Dpa elastic (mt2)
Cross Section

64-Gd-160
-97.64 To 9999. %



59

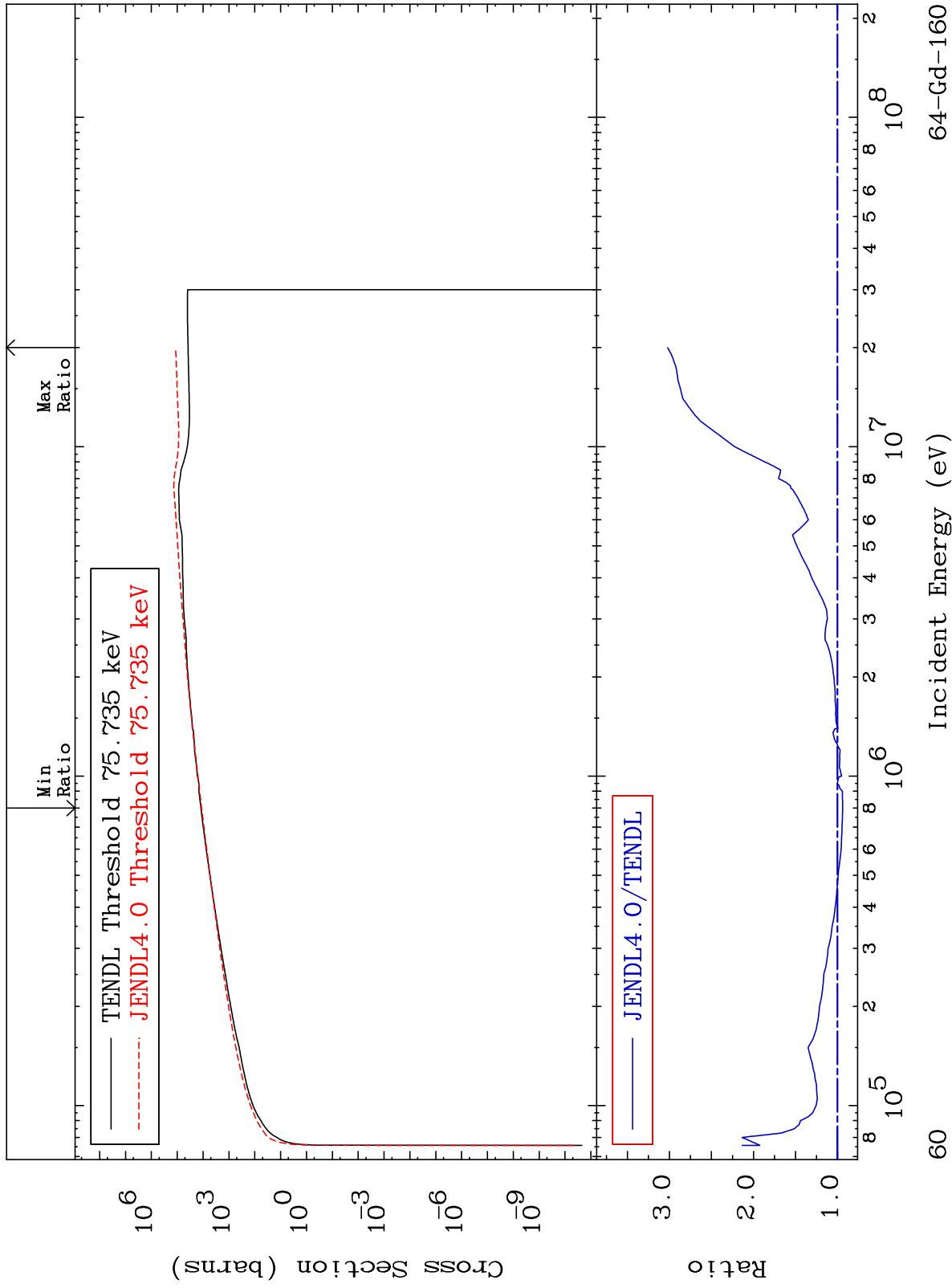
Incident Energy (eV)

64-Gd-160

MAT 6449

Dpa inelastic (mt51-91)
Cross Section

64-Gd-160
-6.186 To 202.3 %



60

64-Gd-160

MAT 6449

Dpa disappearance (mt102 -120)
Cross Section

64-Gd-160
-96.85 To 9999. %

