

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

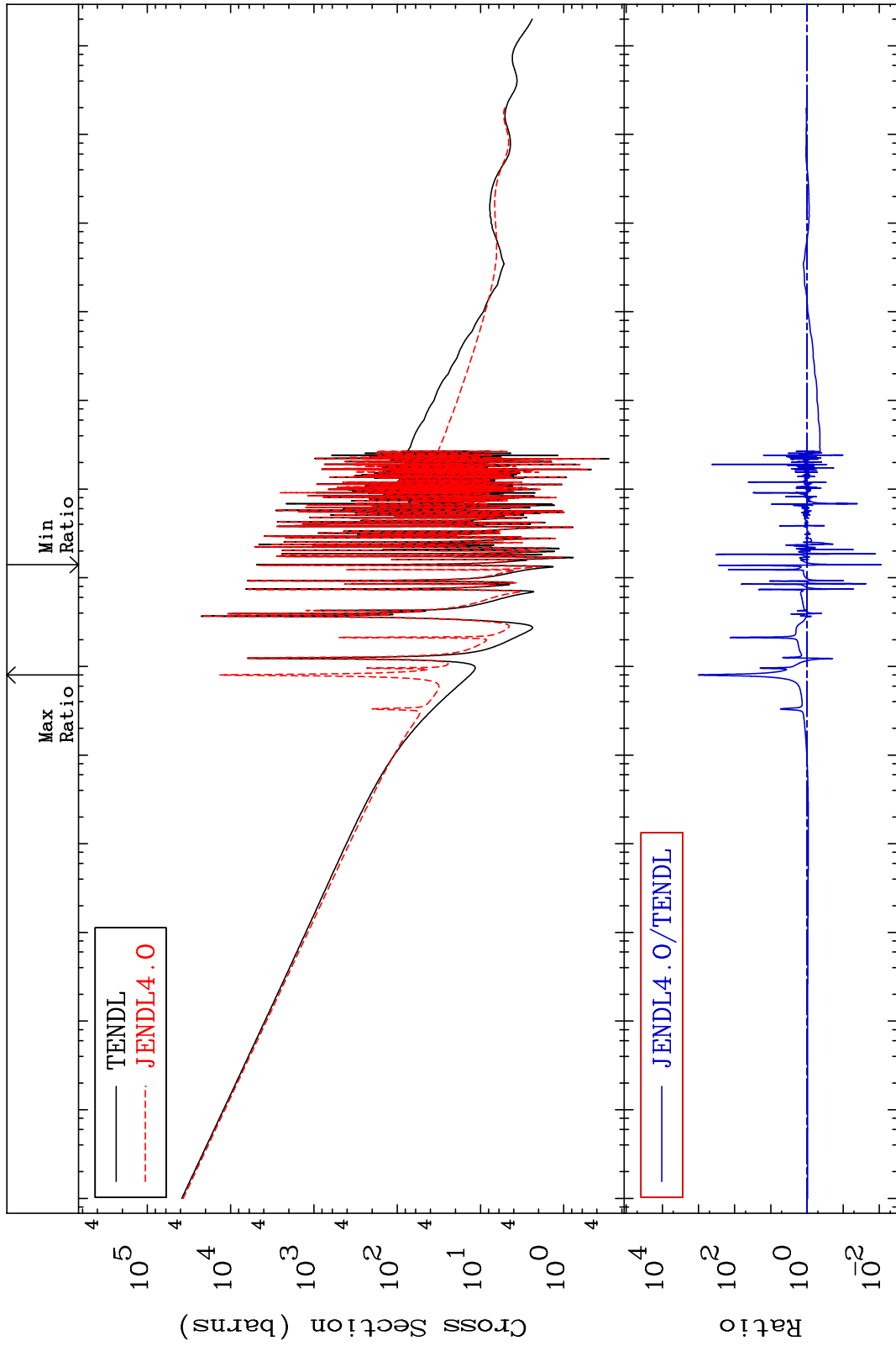
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6425

64-Gd-152
-99.14 To 9999. %

Total
Cross Section



64-Gd-152

Incident Energy (eV)

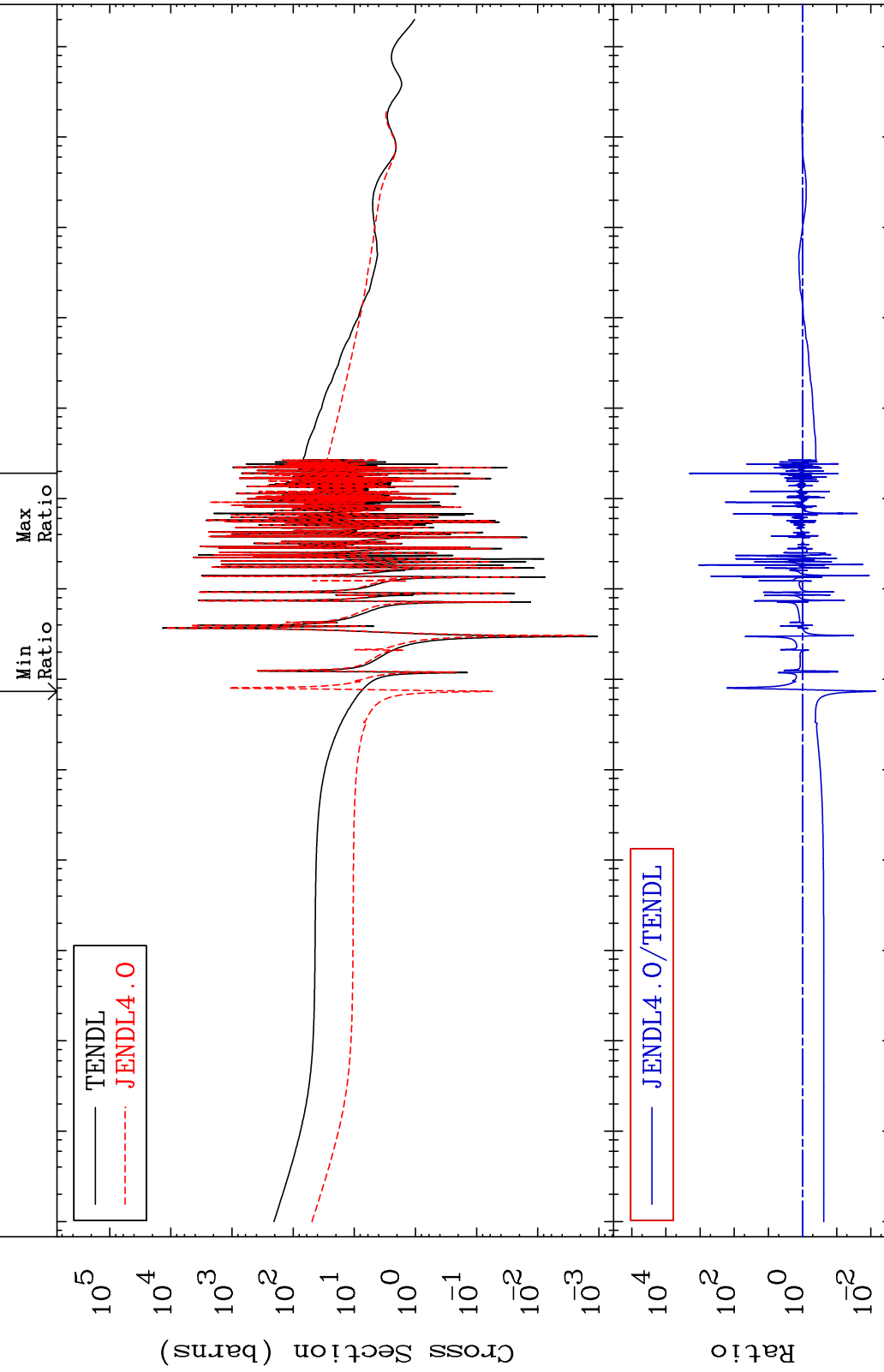
MAT 6425

Elastic

64-Gd-152

-99.30 To 9999. %

Cross Section

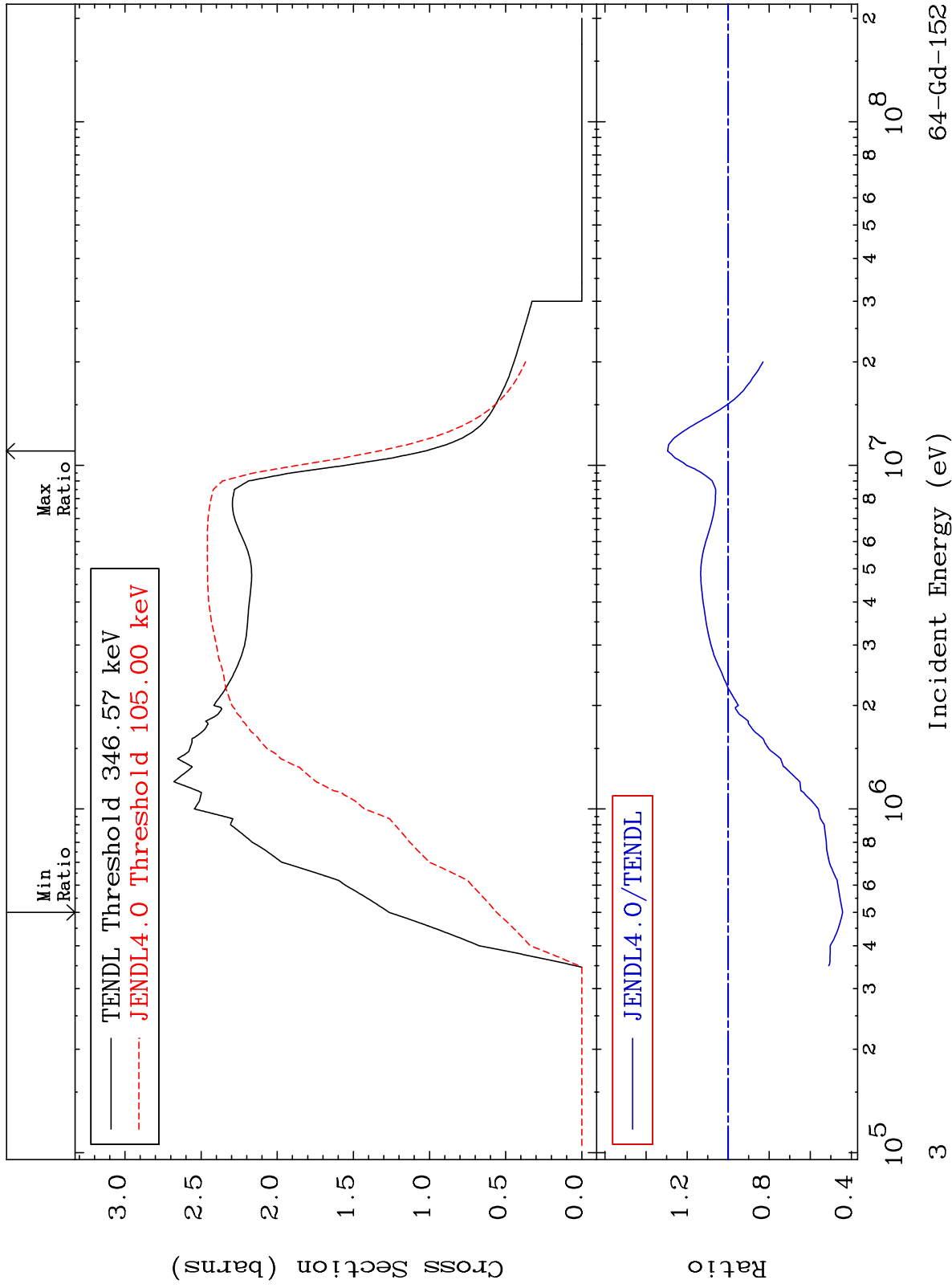


64-Gd-152

Incident Energy (eV)

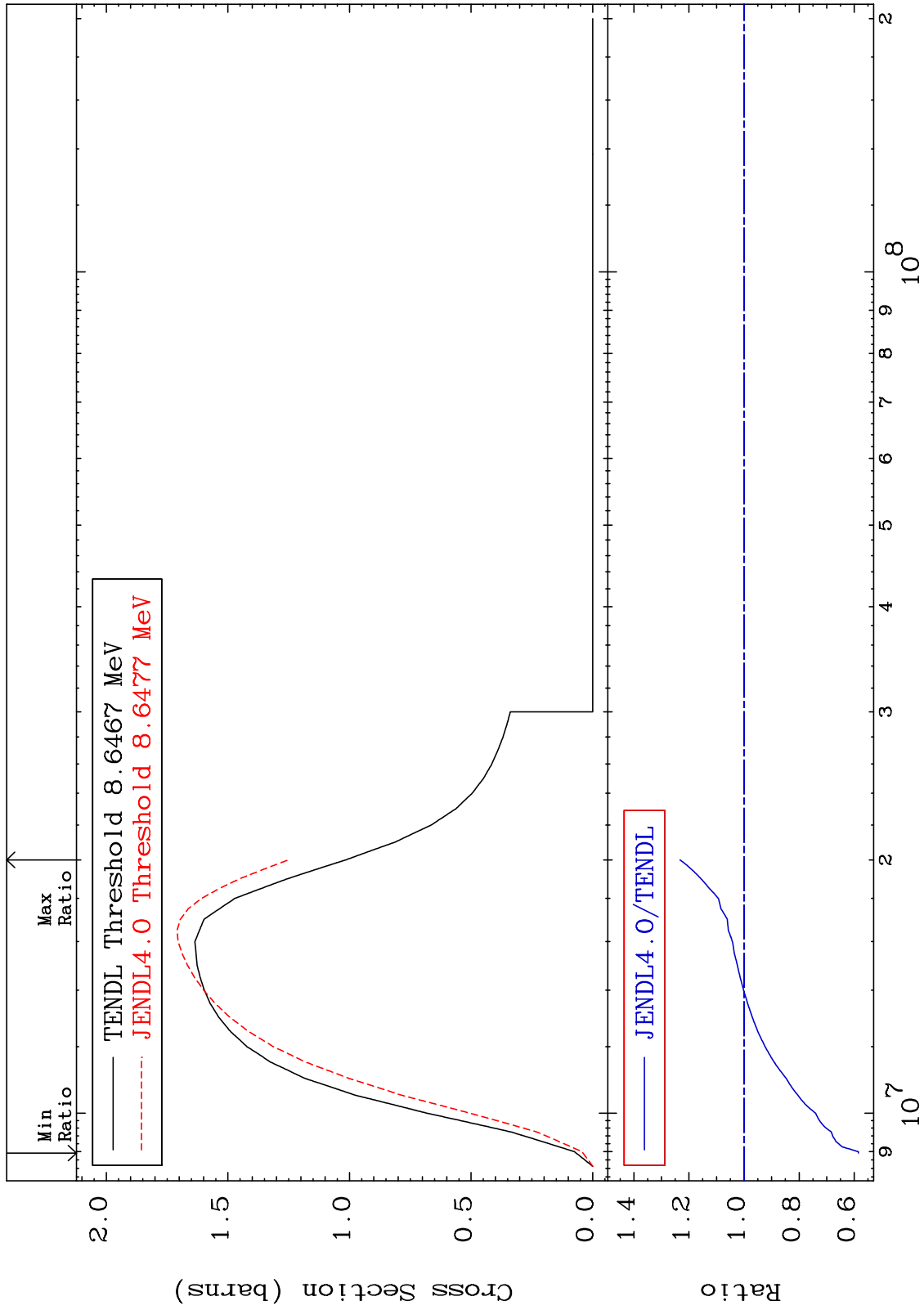
MAT 6425

Inelastic Cross Section
64-Gd-152
-55.75 To 29.52 %



64-Gd-152

MAT 6425 (n,2n) Cross Section 64-Gd-152 -41.50 To 23.25 %



4 64-Gd-152 Incident Energy (eV)

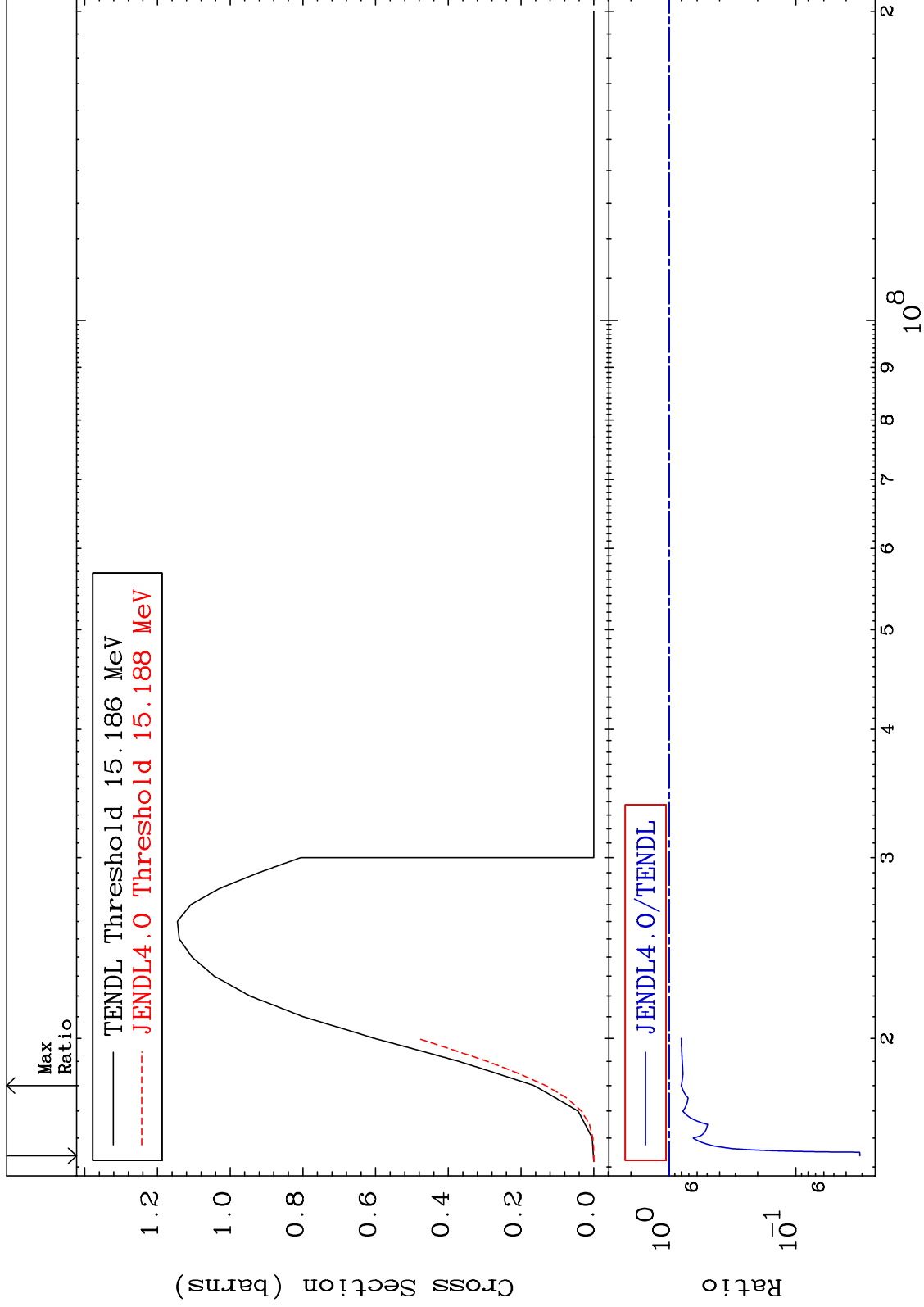
MAT 6425

(n,3n)

64-Gd-152

Cross Section

-96.88 To -19.77%



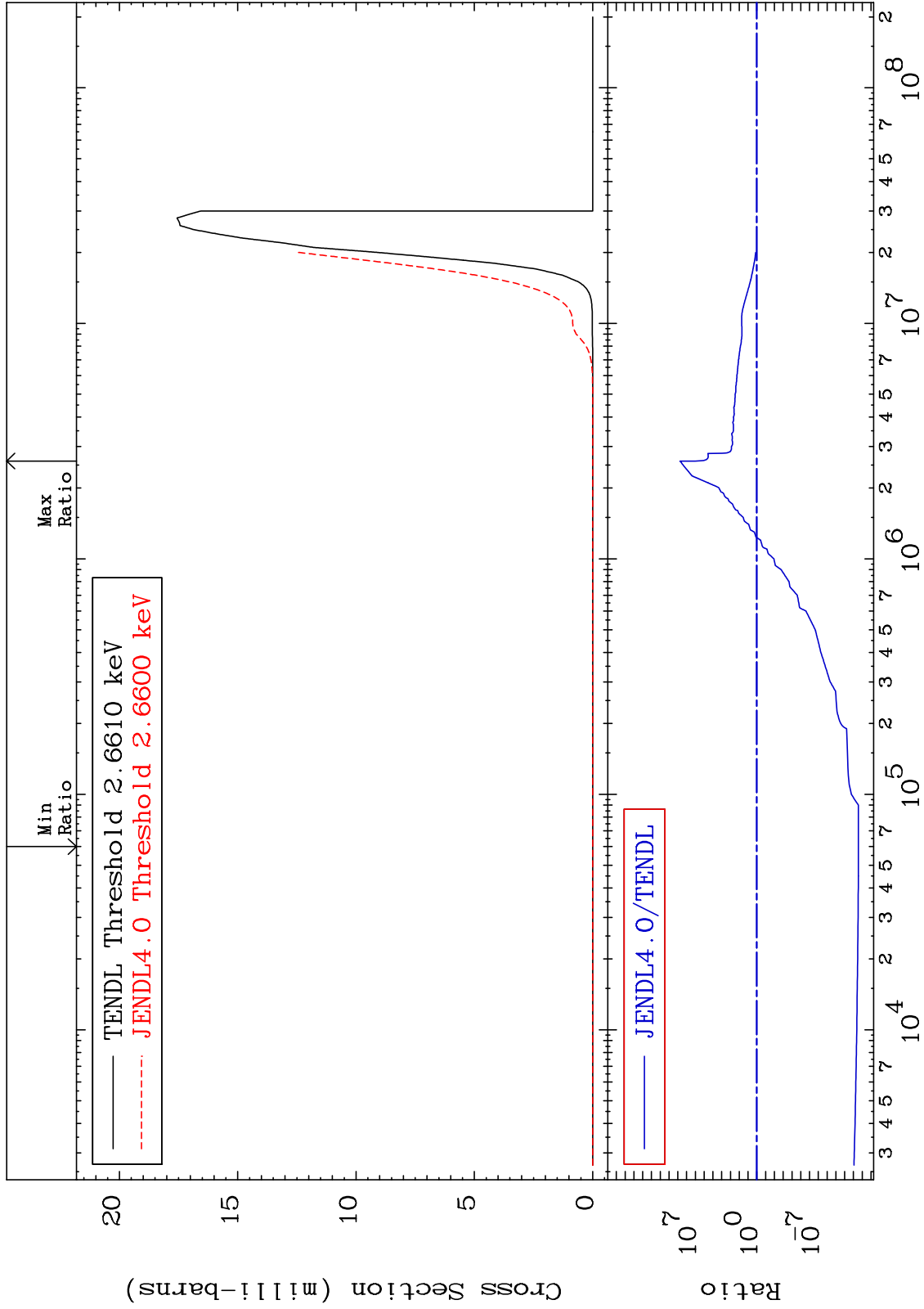
MAT 6425

(n,n') α

64-Gd-152

-100.0 To 9999. %

Cross Section



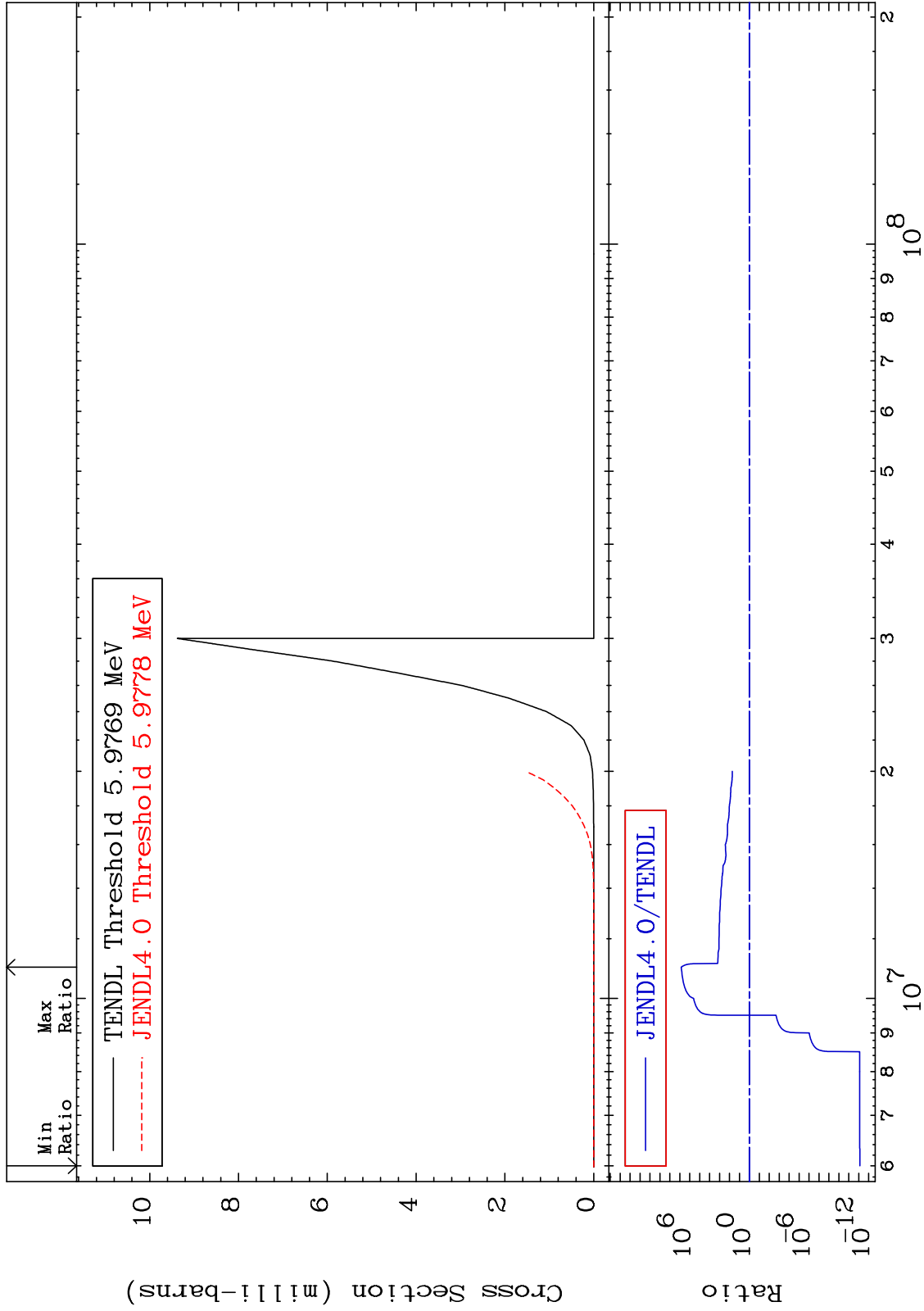
MAT 6425

(n,2n) α

64-Gd-152

Cross Section

-100.0 To 9999. %



64-Gd-152

Incident Energy (eV)

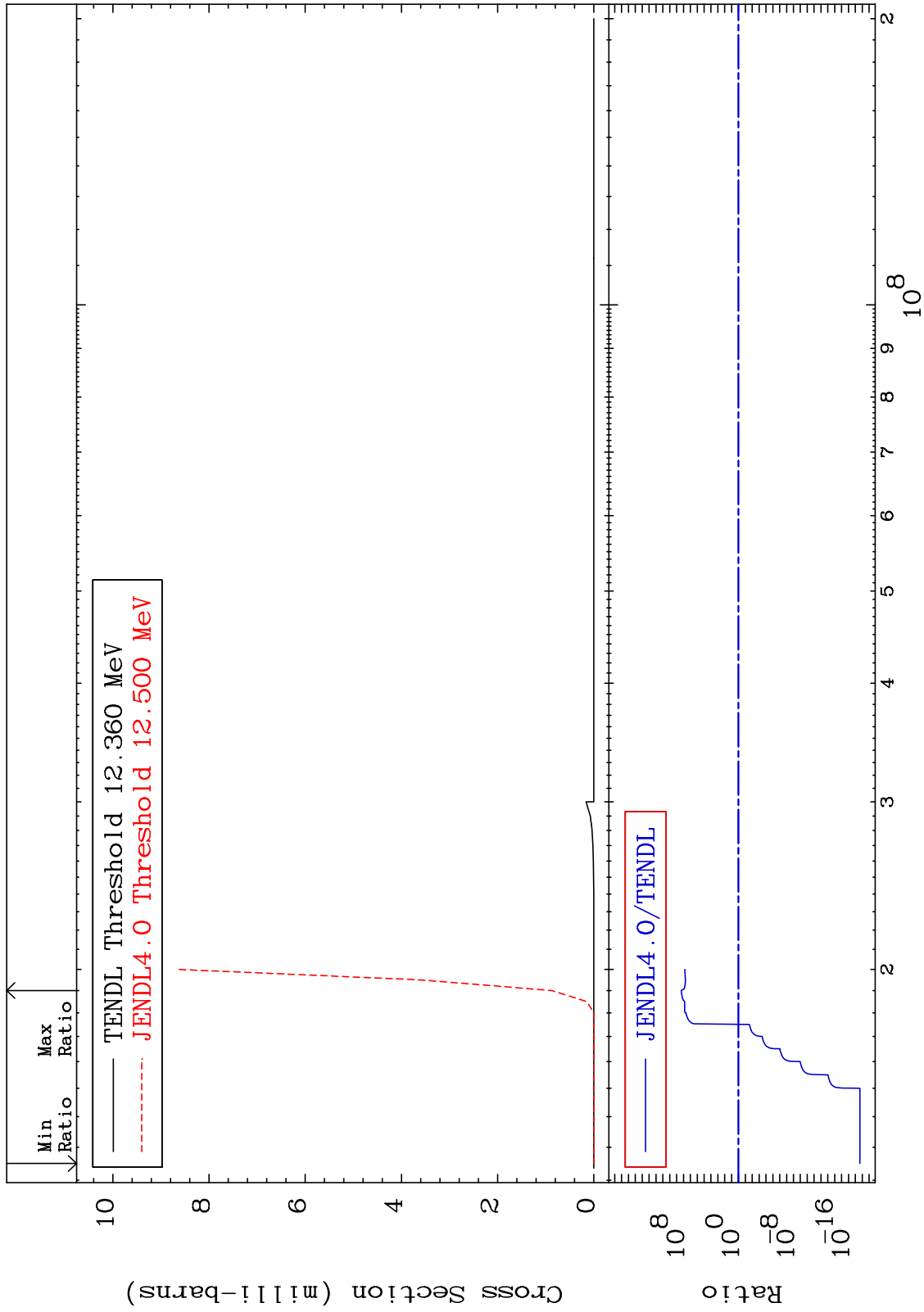
MAT 6425

(n,3n) α

64-Gd-152

Cross Section

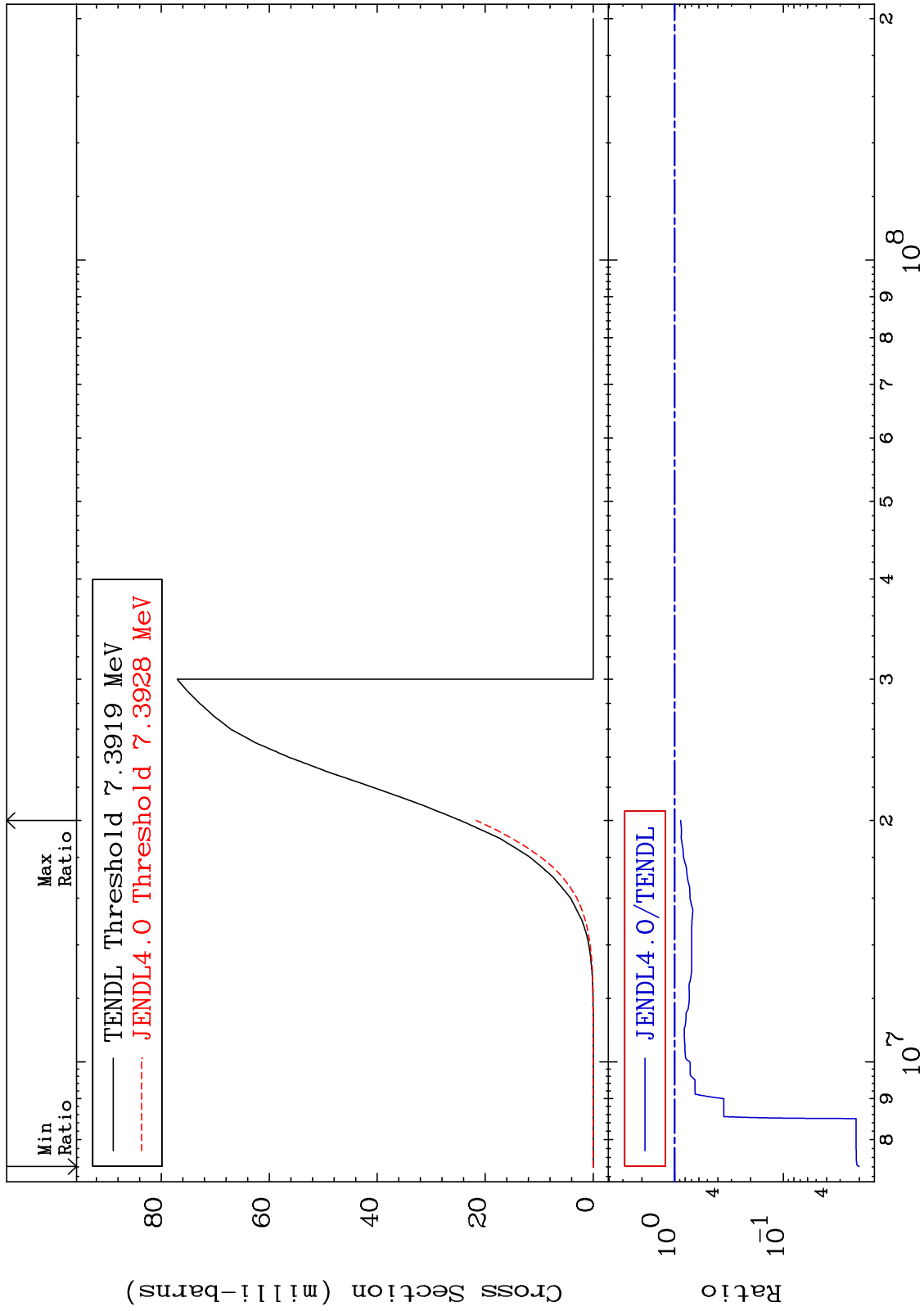
-100.0 To 9999. %



MAT 6425

(n,n') p
Cross Section

64-Gd-152
-97.99 To -11.81%



9

Incident Energy (eV)

64-Gd-152

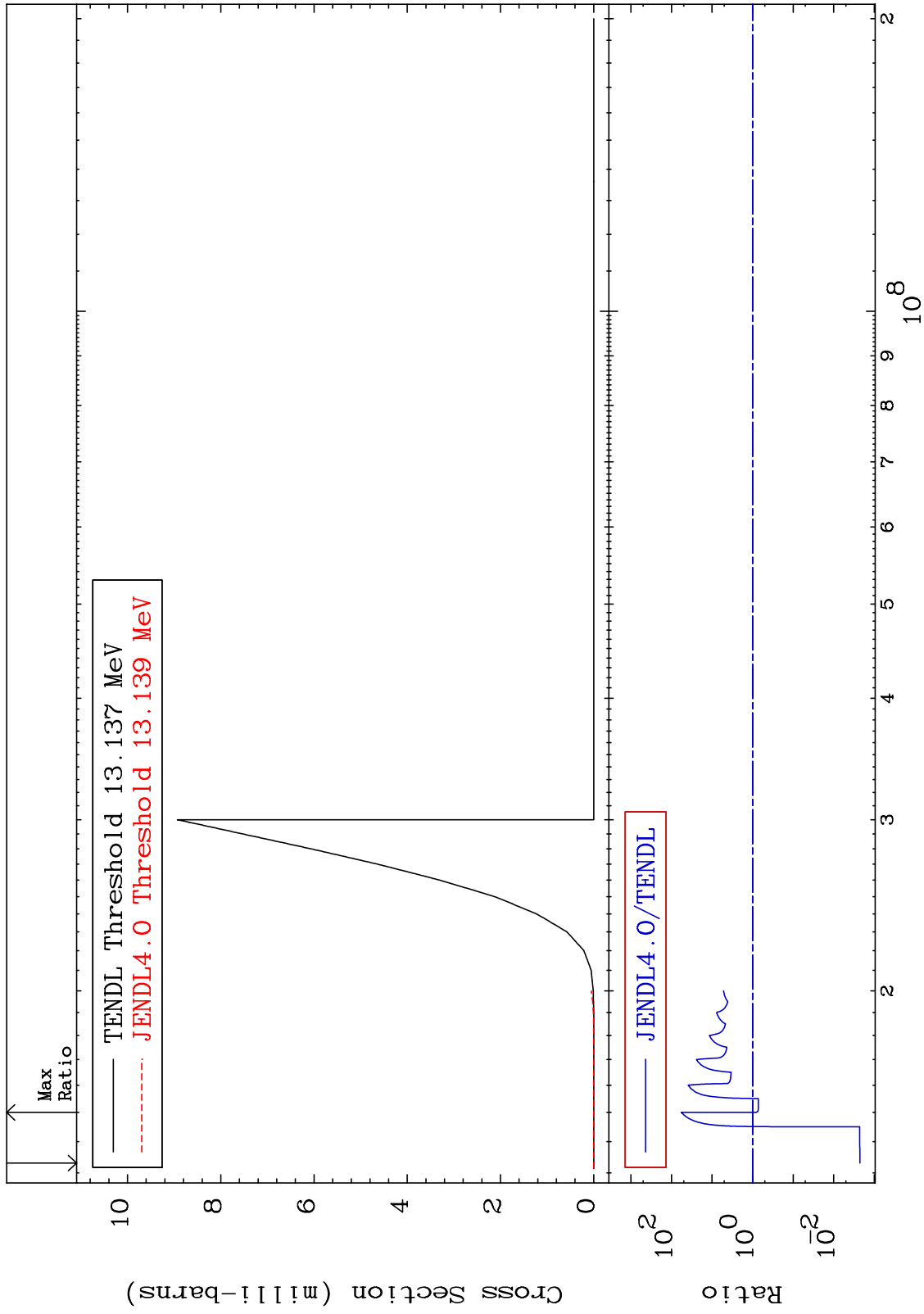
MAT 6425

(n,n') d

64-Gd-152

Cross Section

-99.77 To 5665. %



10

Incident Energy (eV)

64-Gd-152

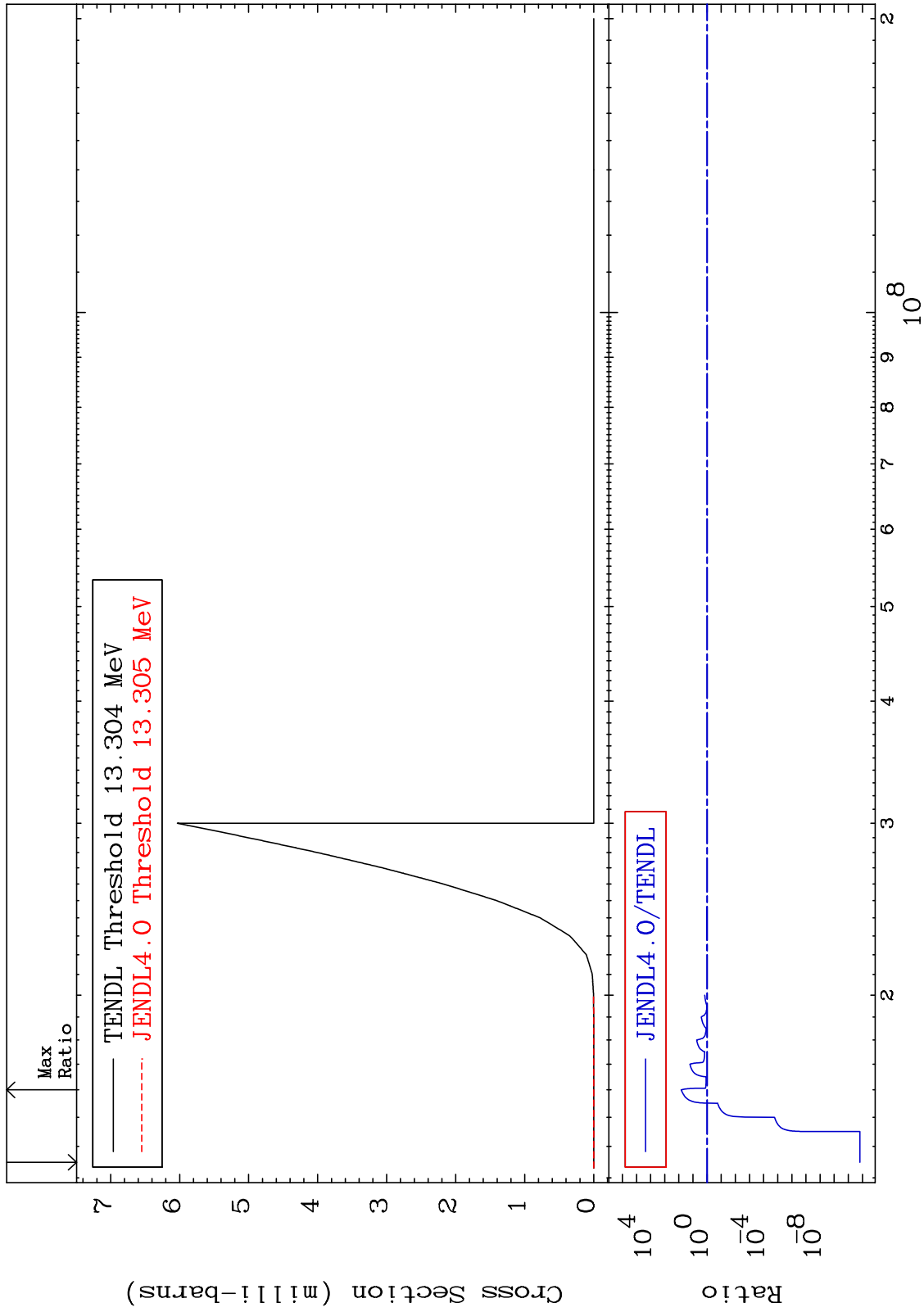
MAT 6425

(n,n') t

64-Gd-152

Cross Section

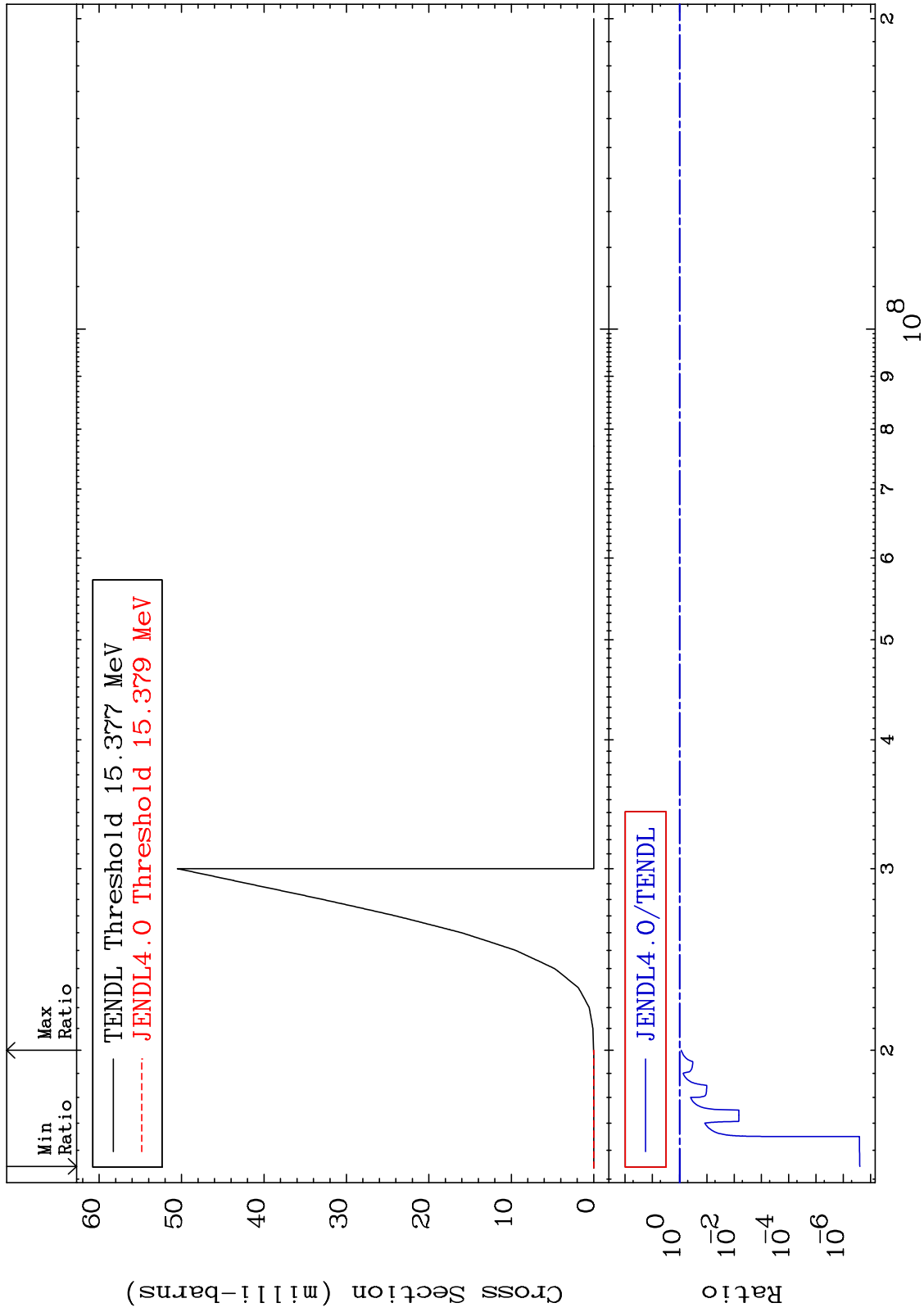
-100.0 To 6697. %



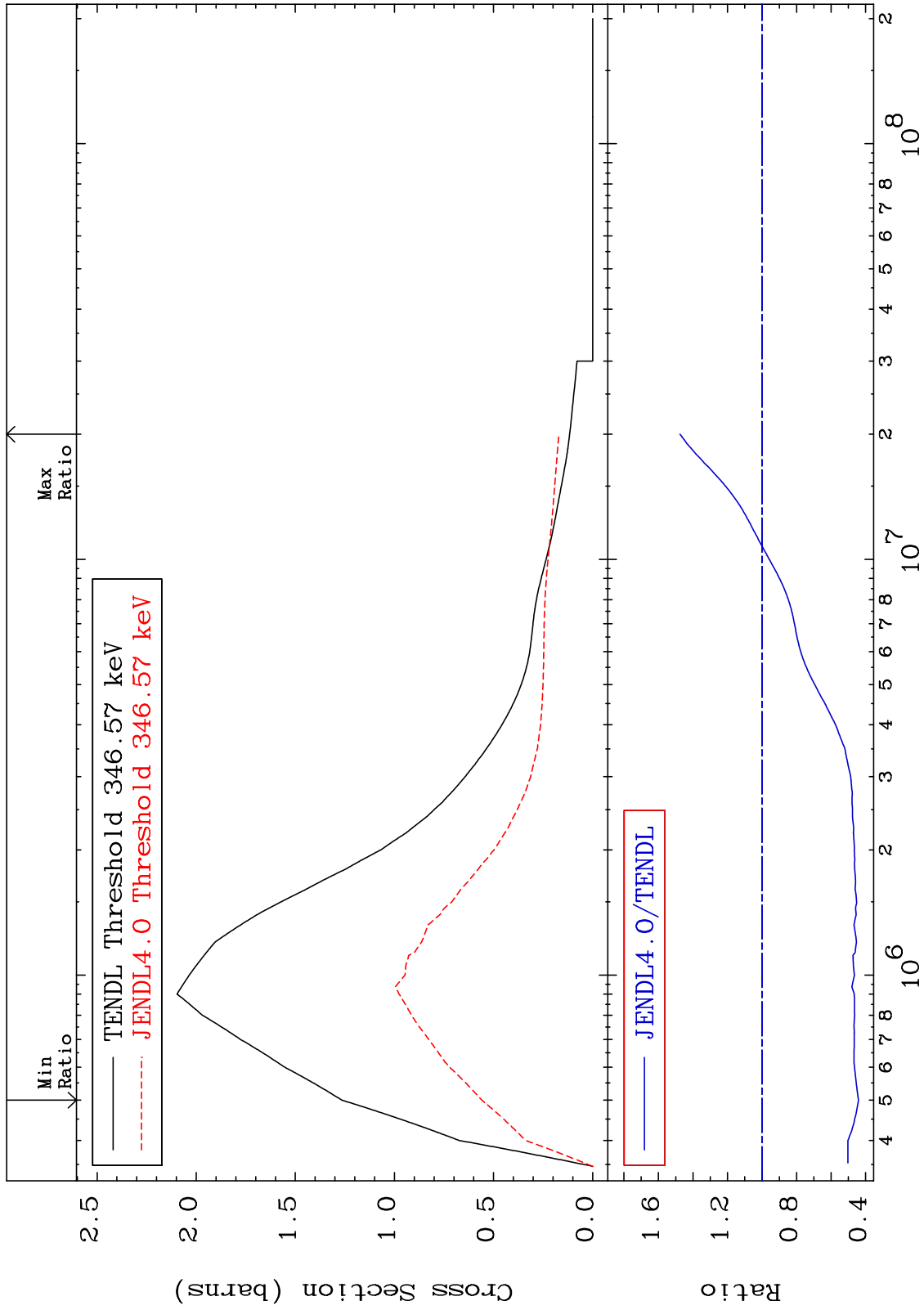
MAT 6425

(n,2n) p
Cross Section

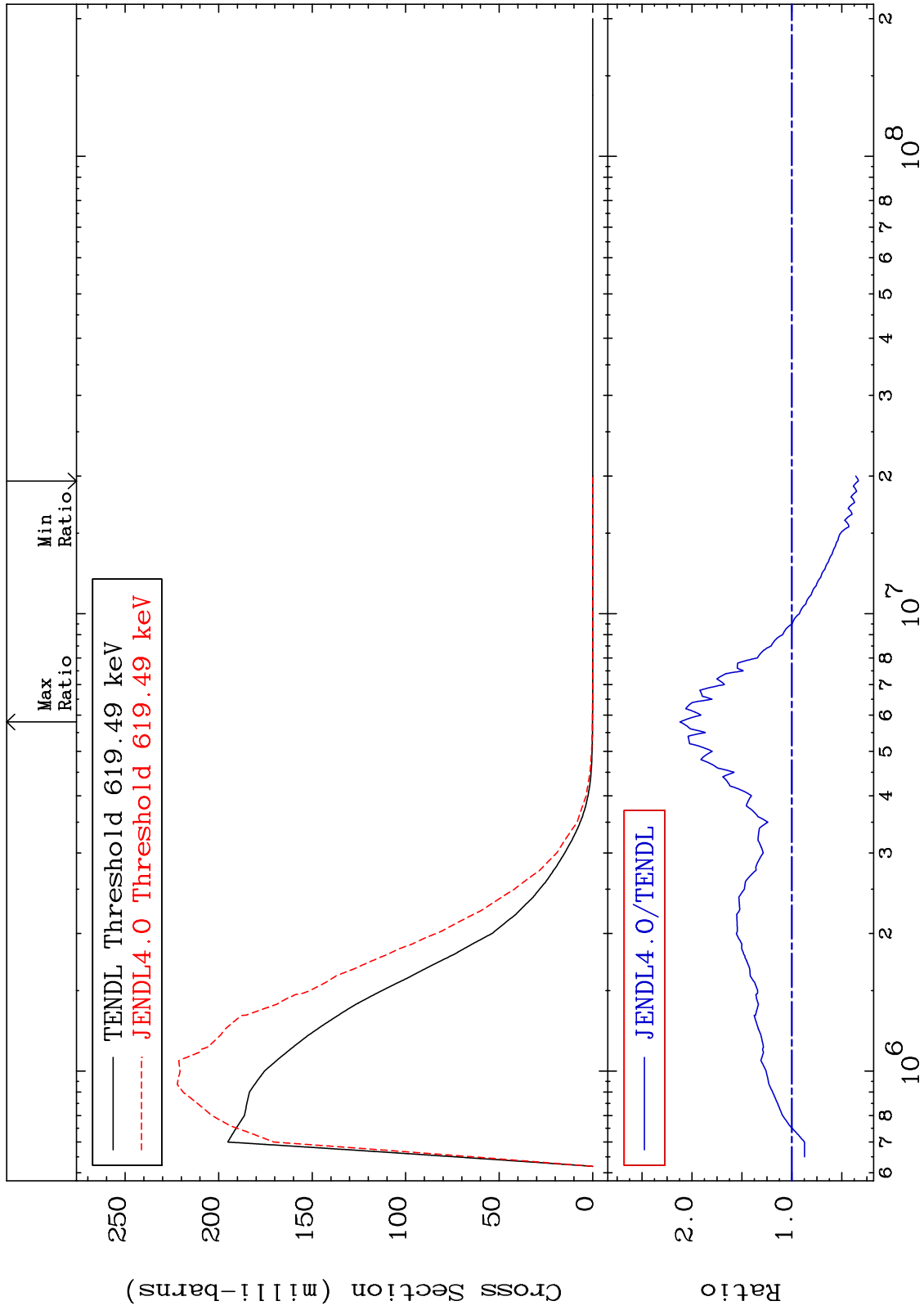
64-Gd-152
-100.0 To -13.10%



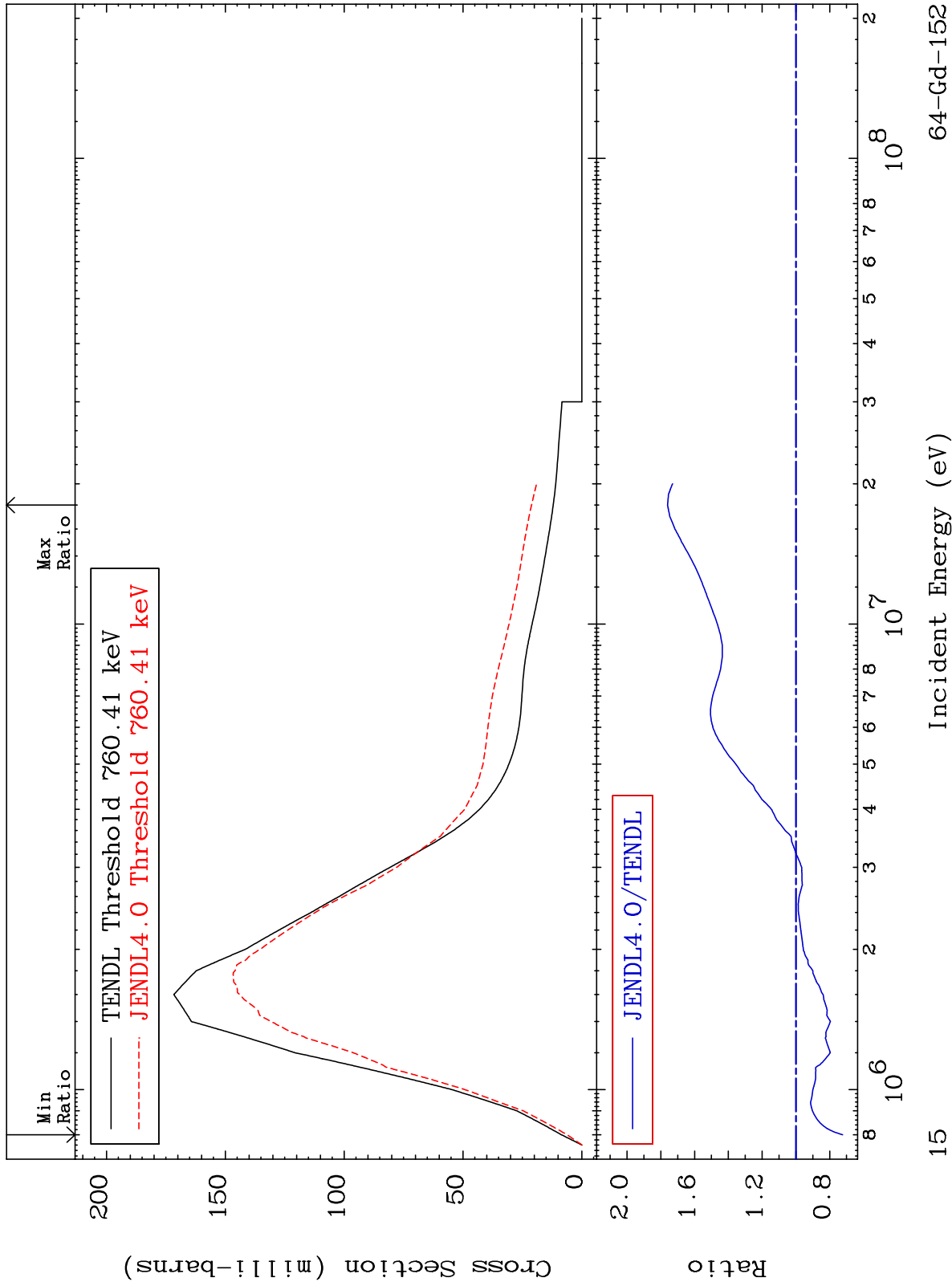
MAT 6425 MT= 51 (n,n') Level Cross Section 64-Gd-152
 -55.82 To 47.51 %



MAT 6425 MT= 52 (n,n') Level 64-Gd-152
 Cross Section -66.62 To 111.9 %



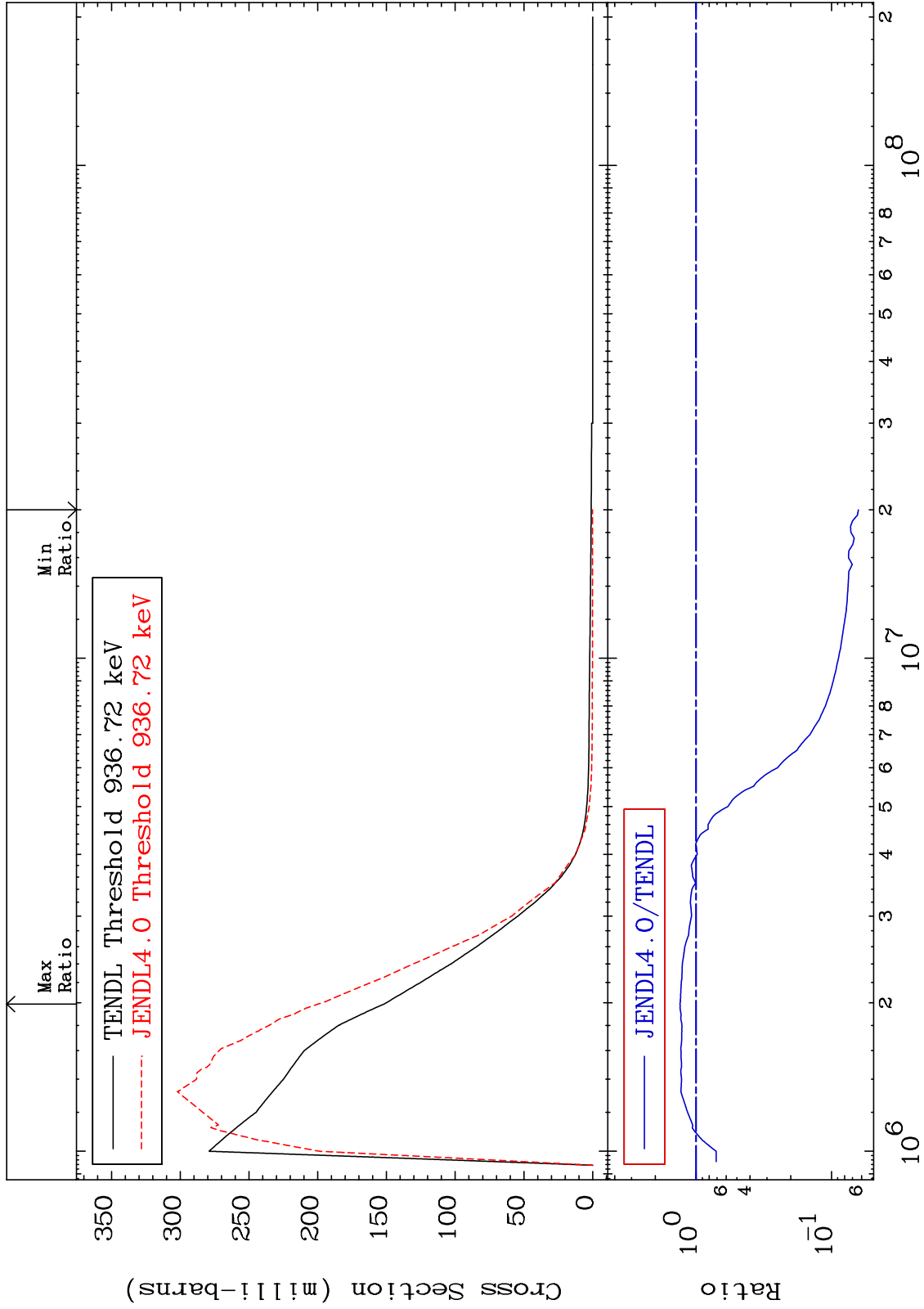
MAT 6425 MT= 53 (n,n') Level Cross Section 64-Gd-152
-27.69 To 76.00 %



MAT 6425

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

64-Gd-152
-93.67 To 31.58 %



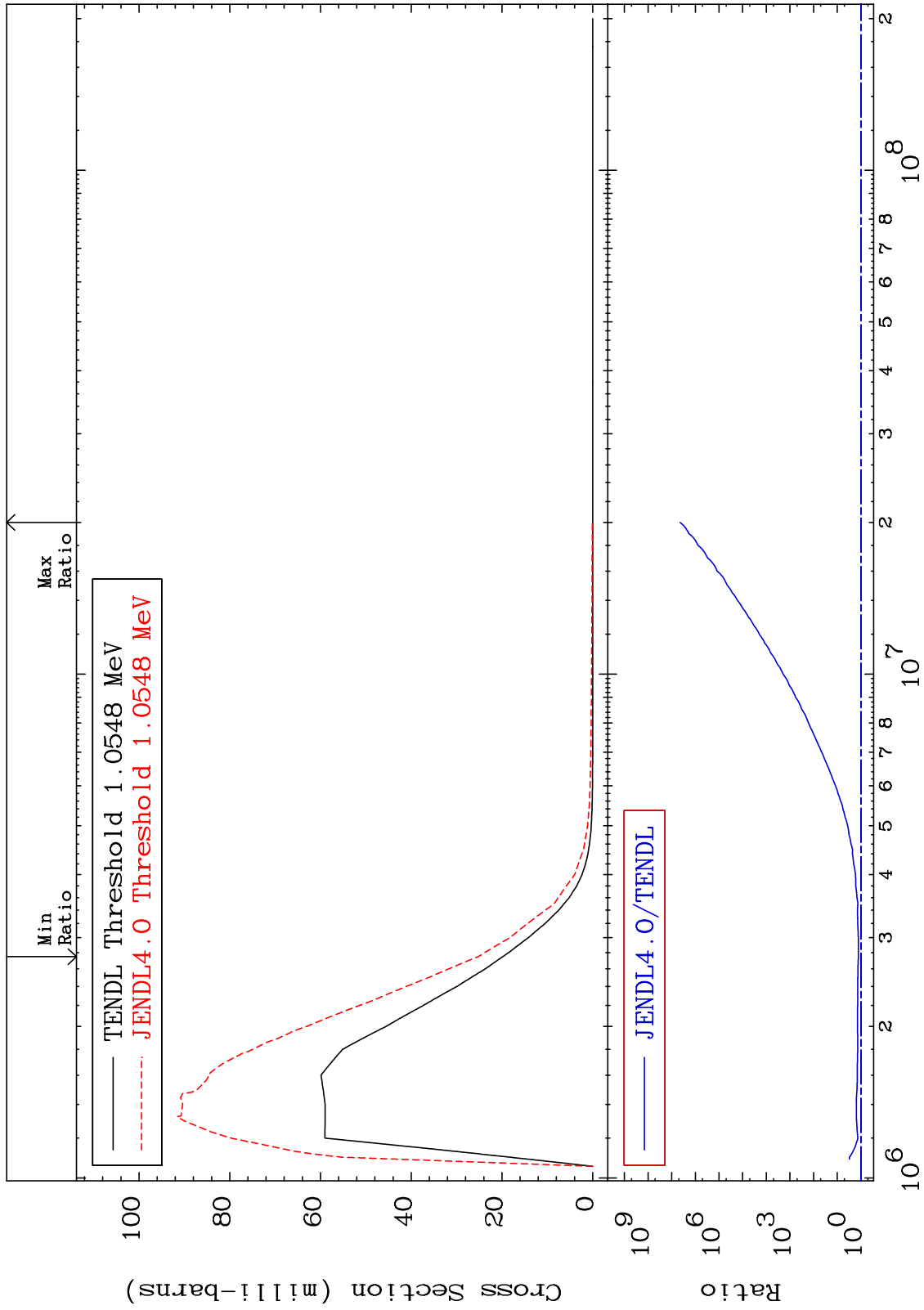
Incident Energy (eV)

64-Gd-152

MAT 6425

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

64-Gd-152
27.32 To 9999. %



17

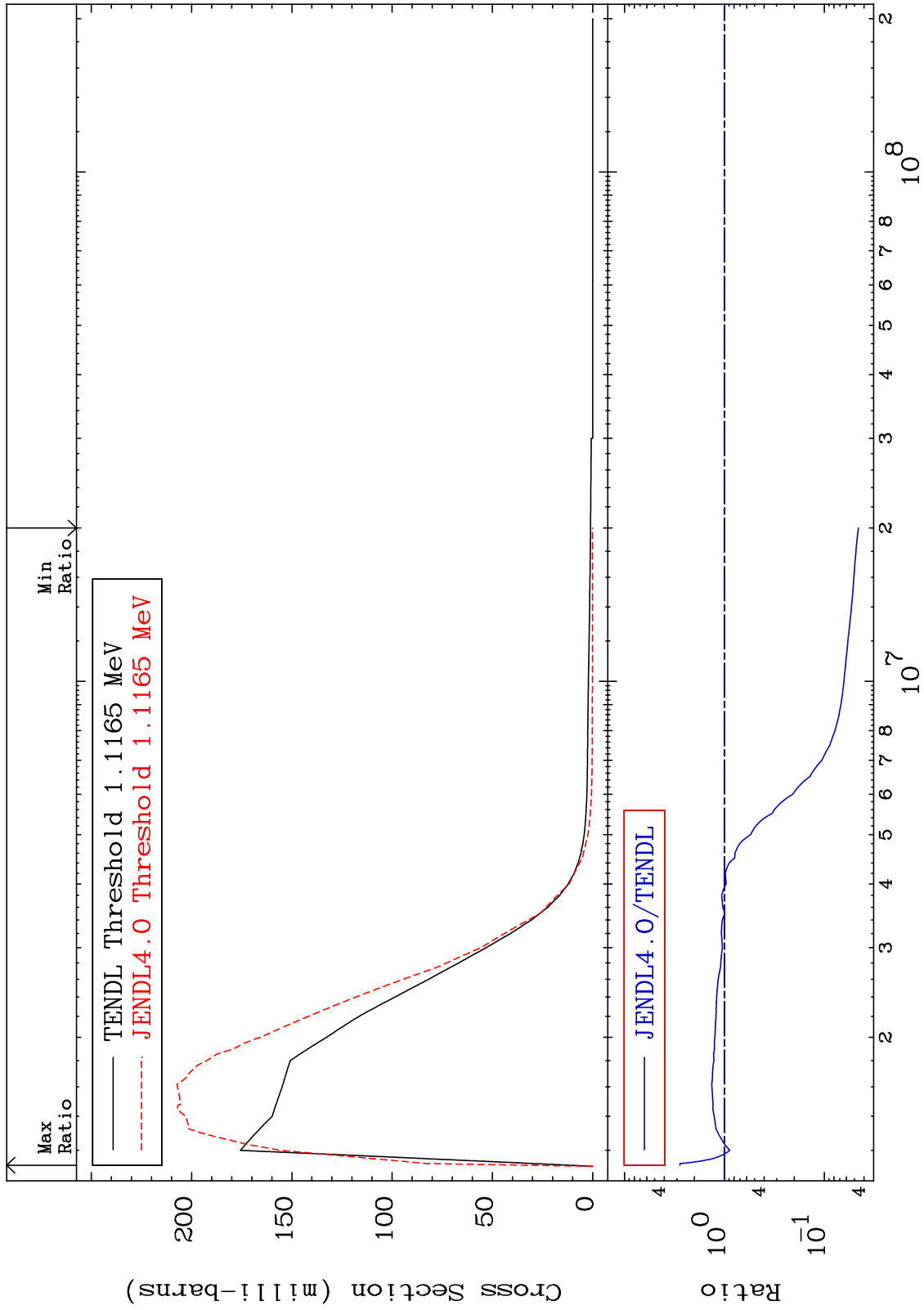
Incident Energy (eV)

64-Gd-152

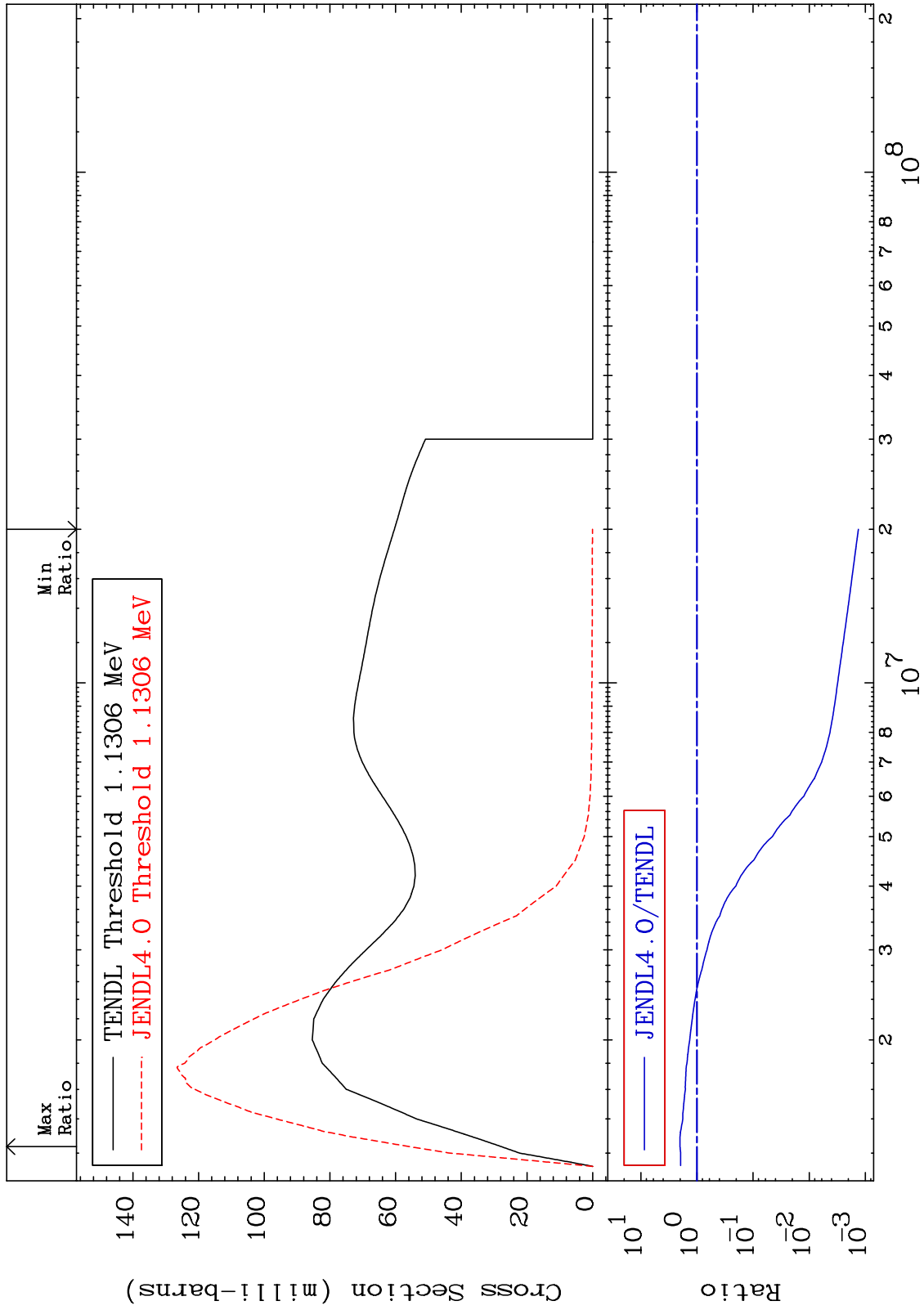
MAT 6425

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

64-Gd-152
-95.45 To 178.7 %



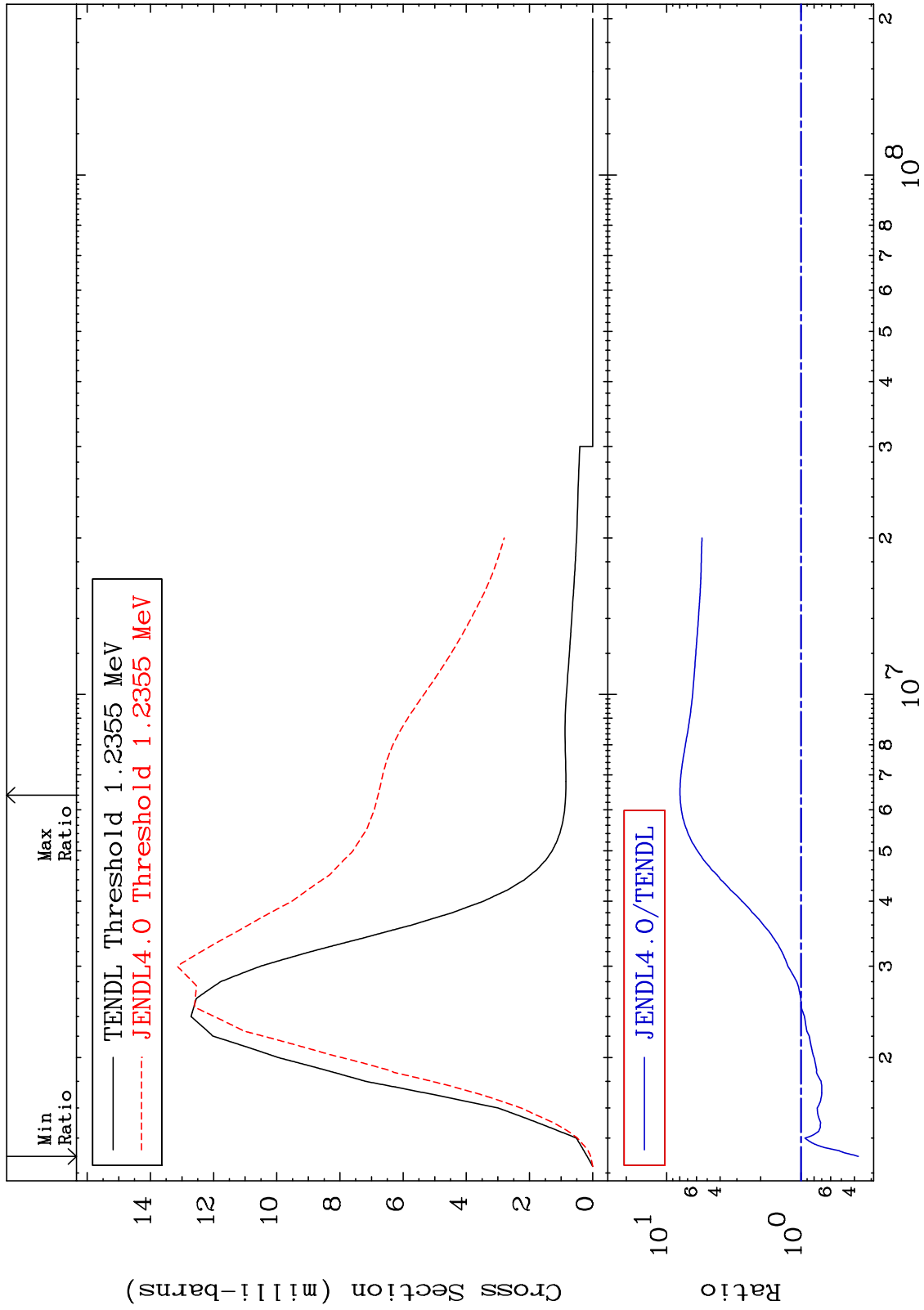
MAT 6425 MT= 57 (n,n') Level Cross Section 64-Gd-152 -99.87 To 100.8 %



MAT 6425

MT= 58 (n,n') Level
Cross Section

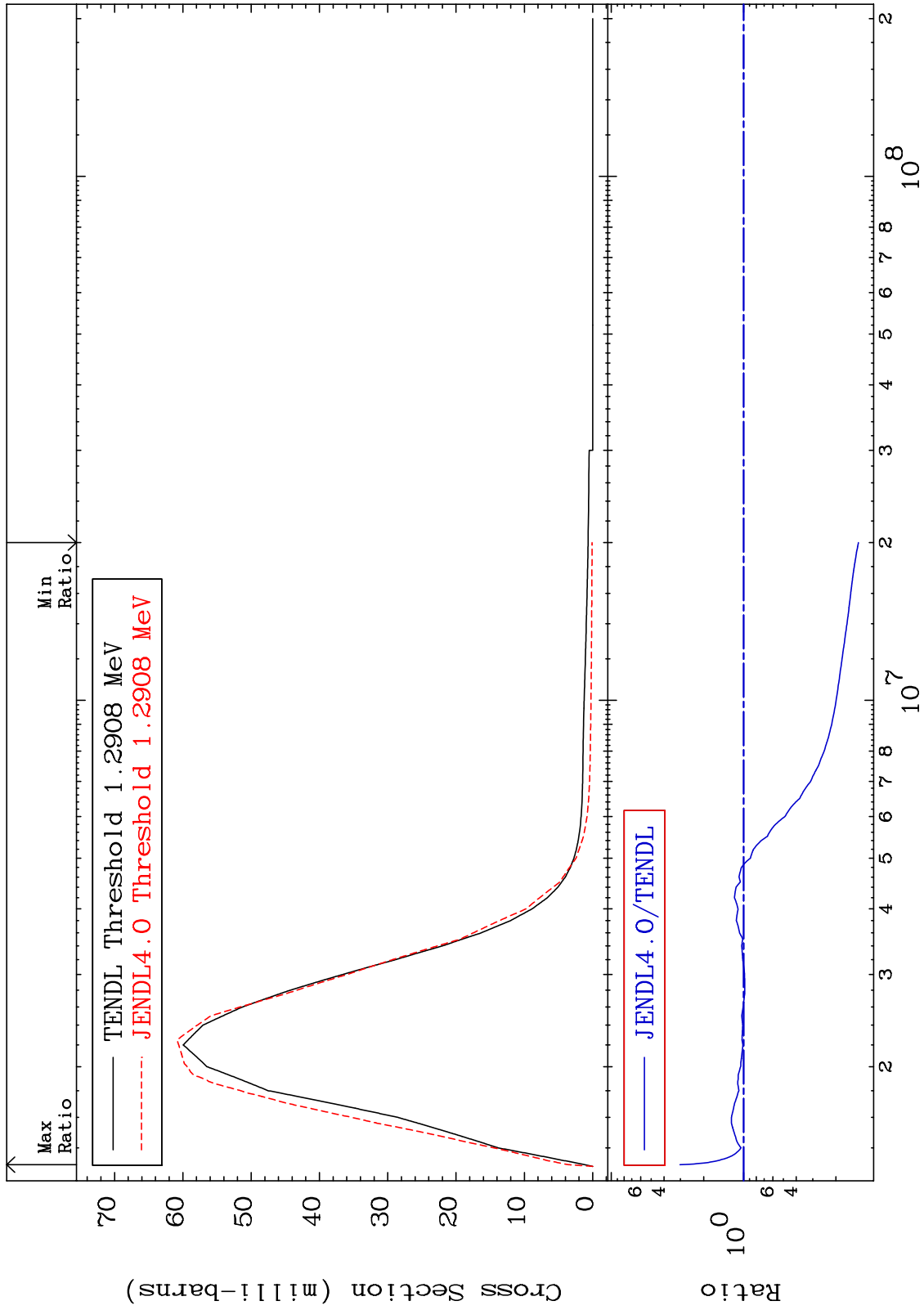
64-Gd-152
-62.66 To 696.0 %



MAT 6425

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

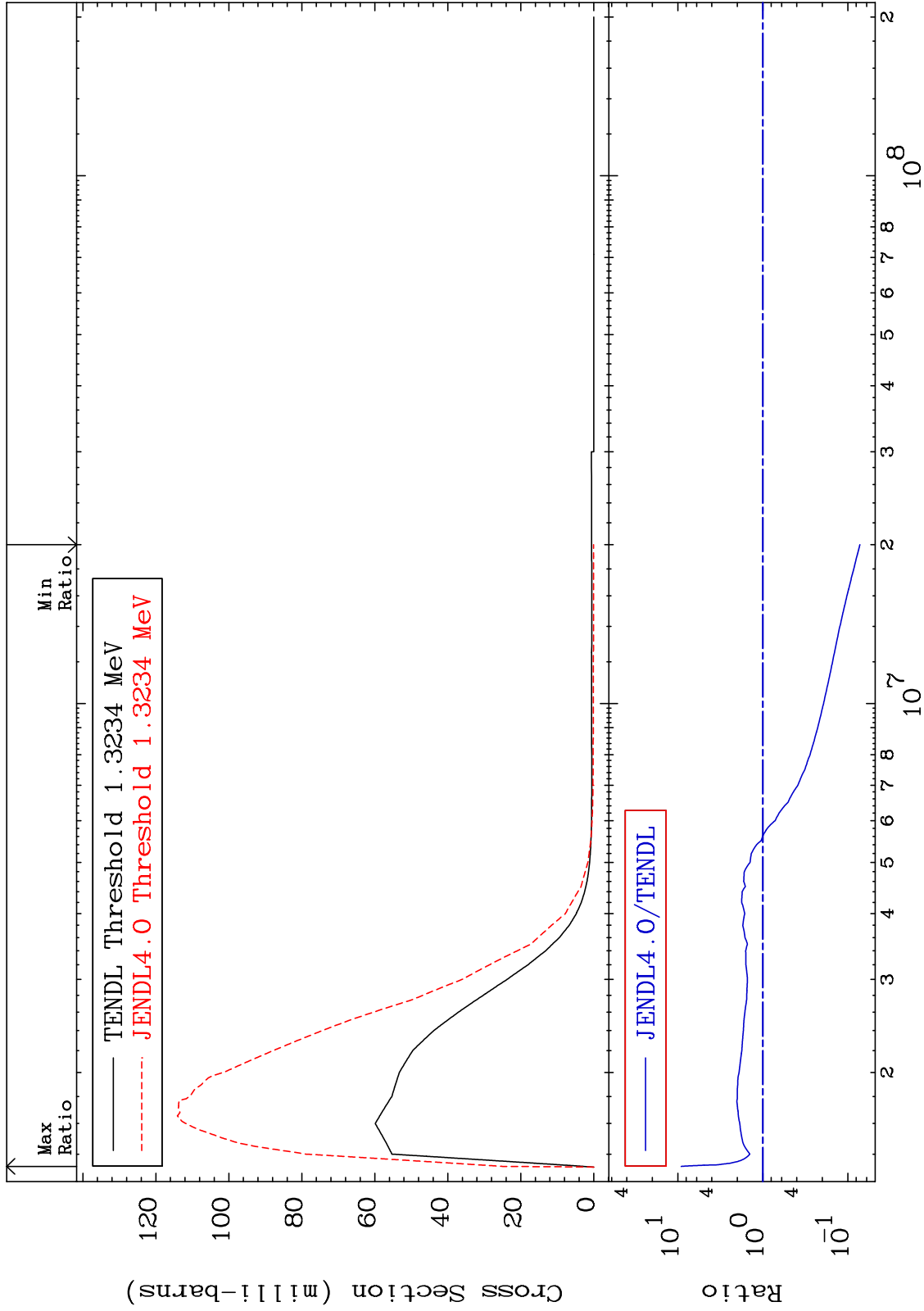
64-Gd-152
-86.46 To 202.2 %



MAT 6425

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

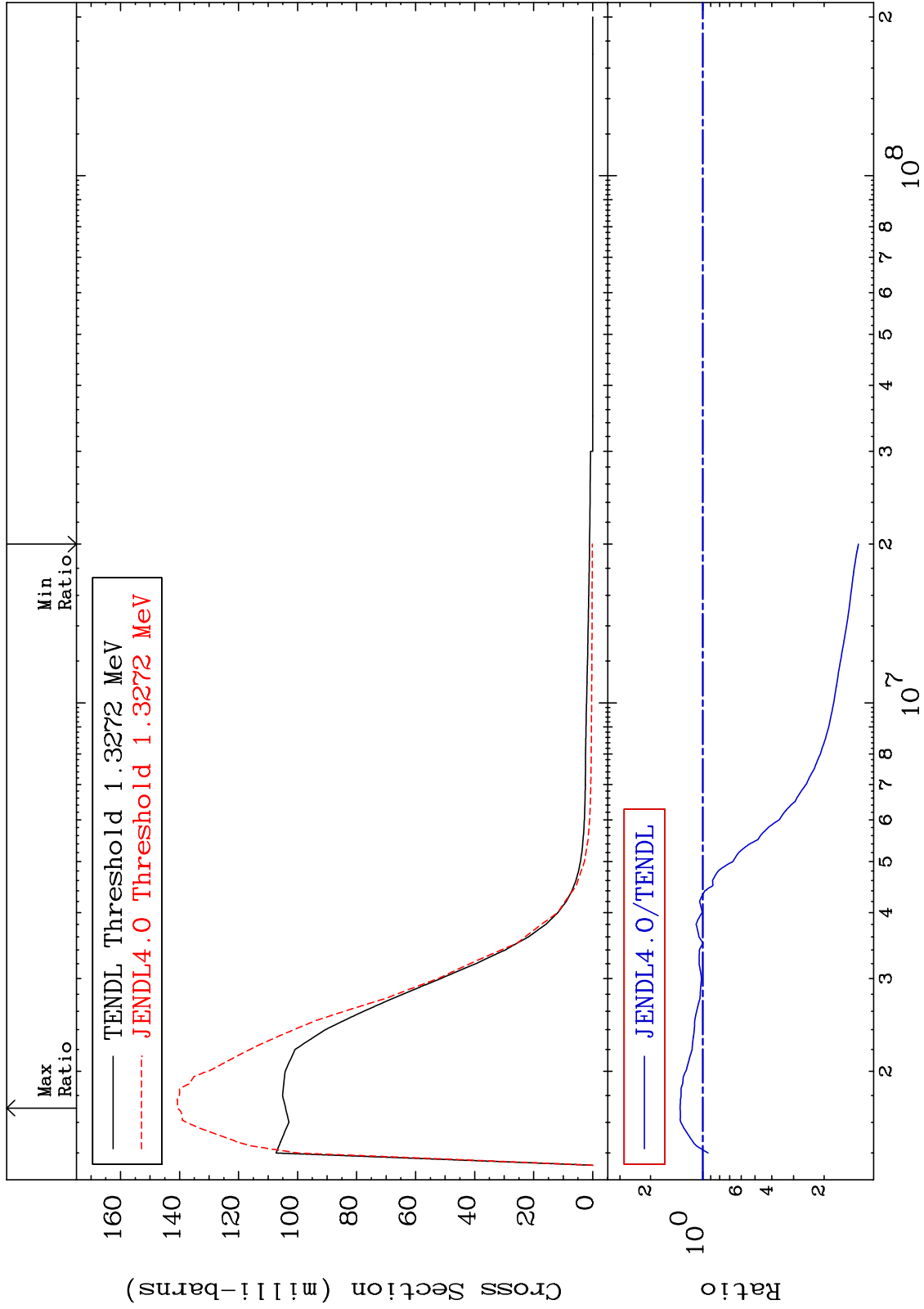
64-Gd-152
-92.79 To 813.2 %



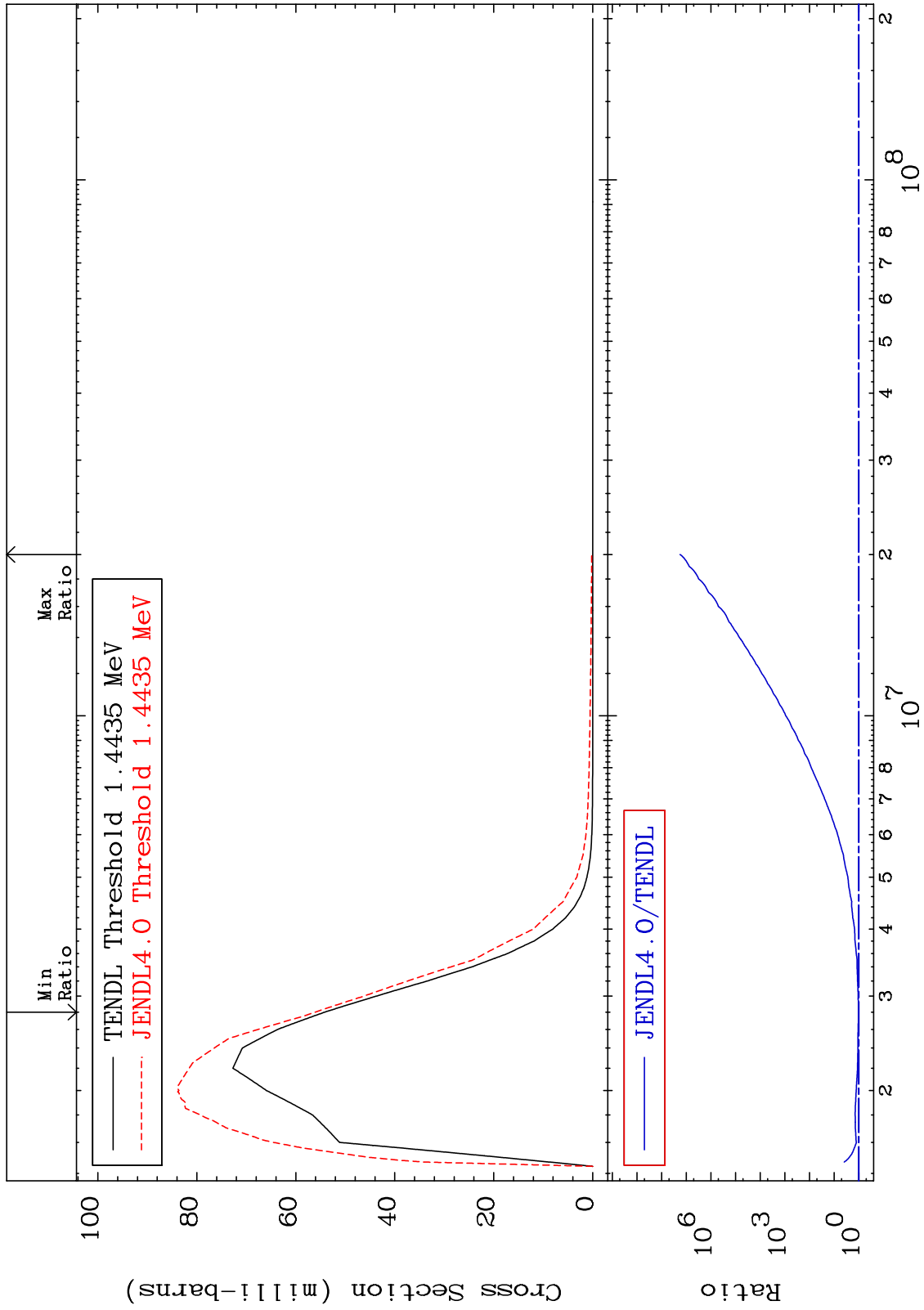
MAT 6425

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

64-Gd-152
-87.32 To 35.20 %



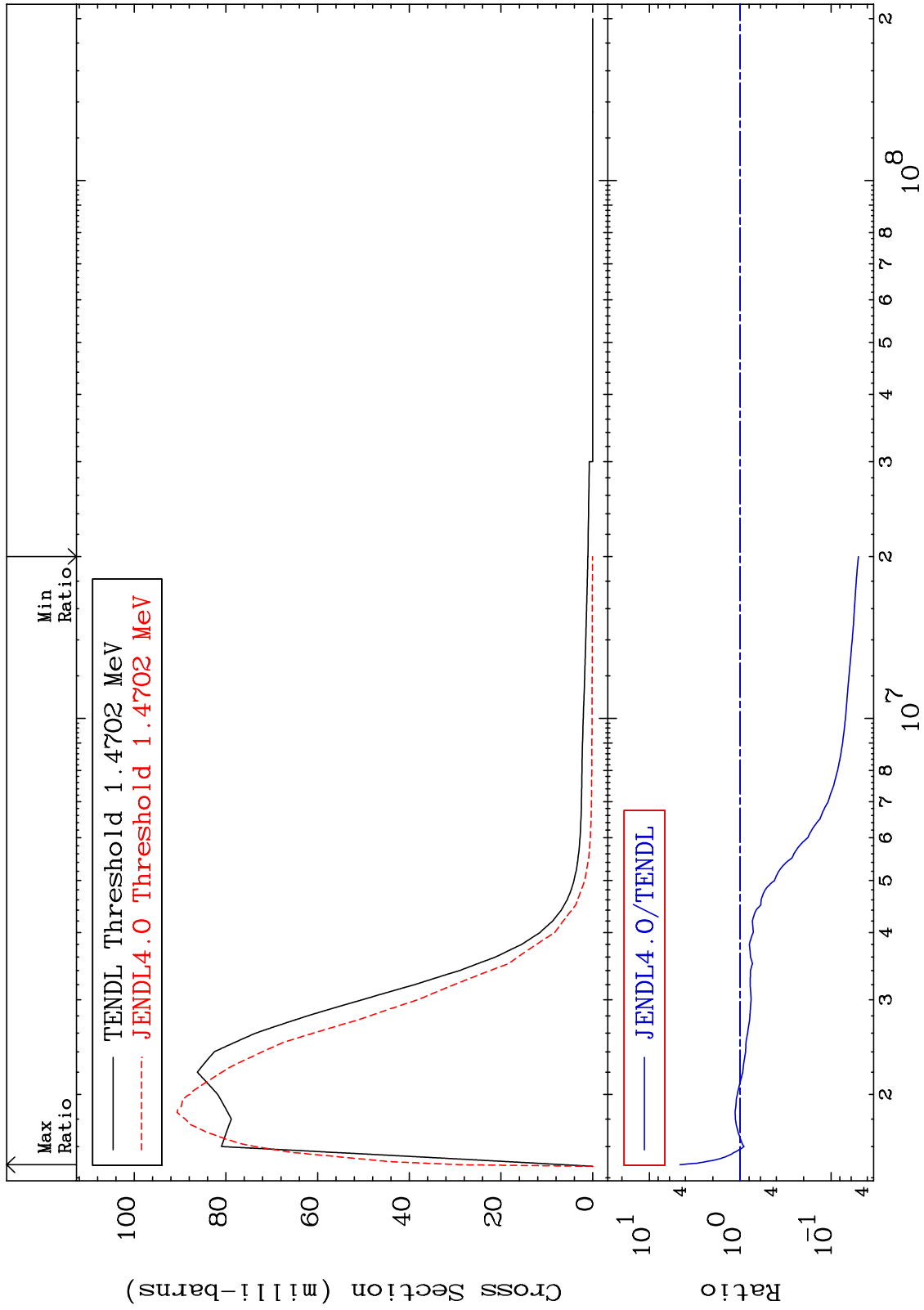
MAT 6425 MT= 62 (n, n') Level Cross Section 64-Gd-152 To 9999. %
 3.599



64-Gd-152

Incident Energy (eV)

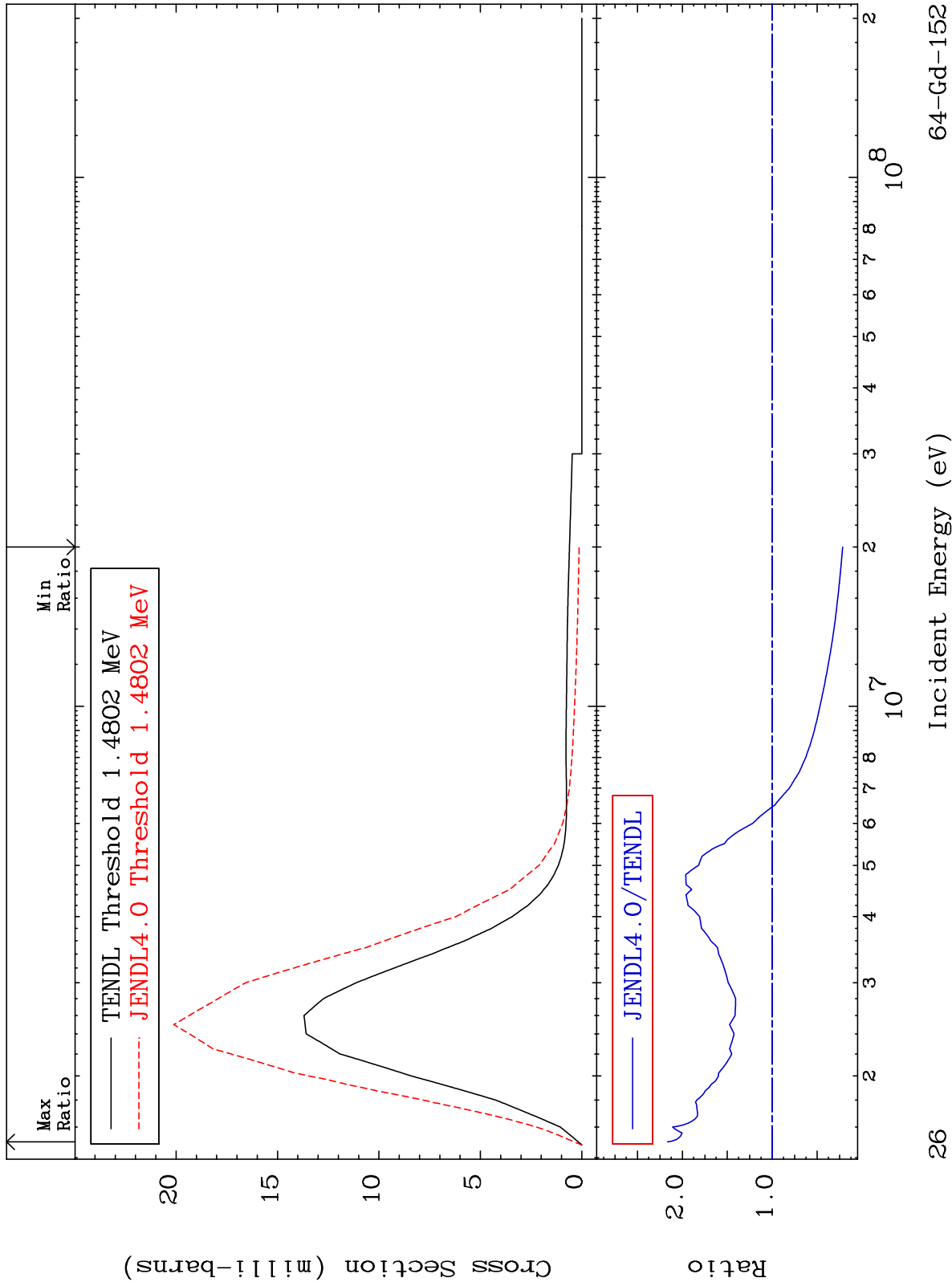
MAT 6425 MT= 63 (n, n') Level
Cross Section 64-Gd-152
-95.00 To 359.4 %



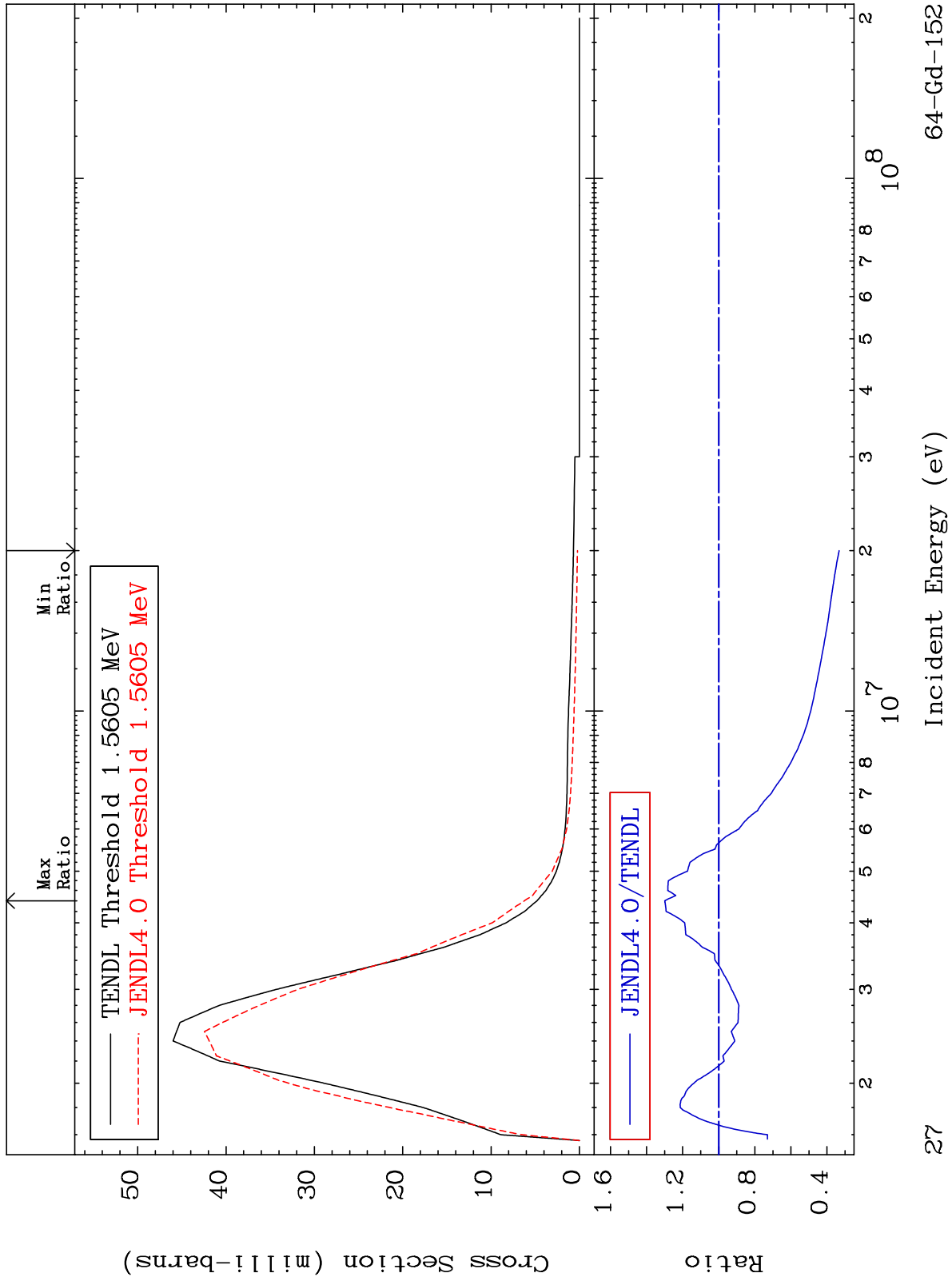
64-Gd-152

Incident Energy (eV)

MAT 6425 MT= 64 (n,n') Level Cross Section 64-Gd-152 -78.35 To 116.5 %



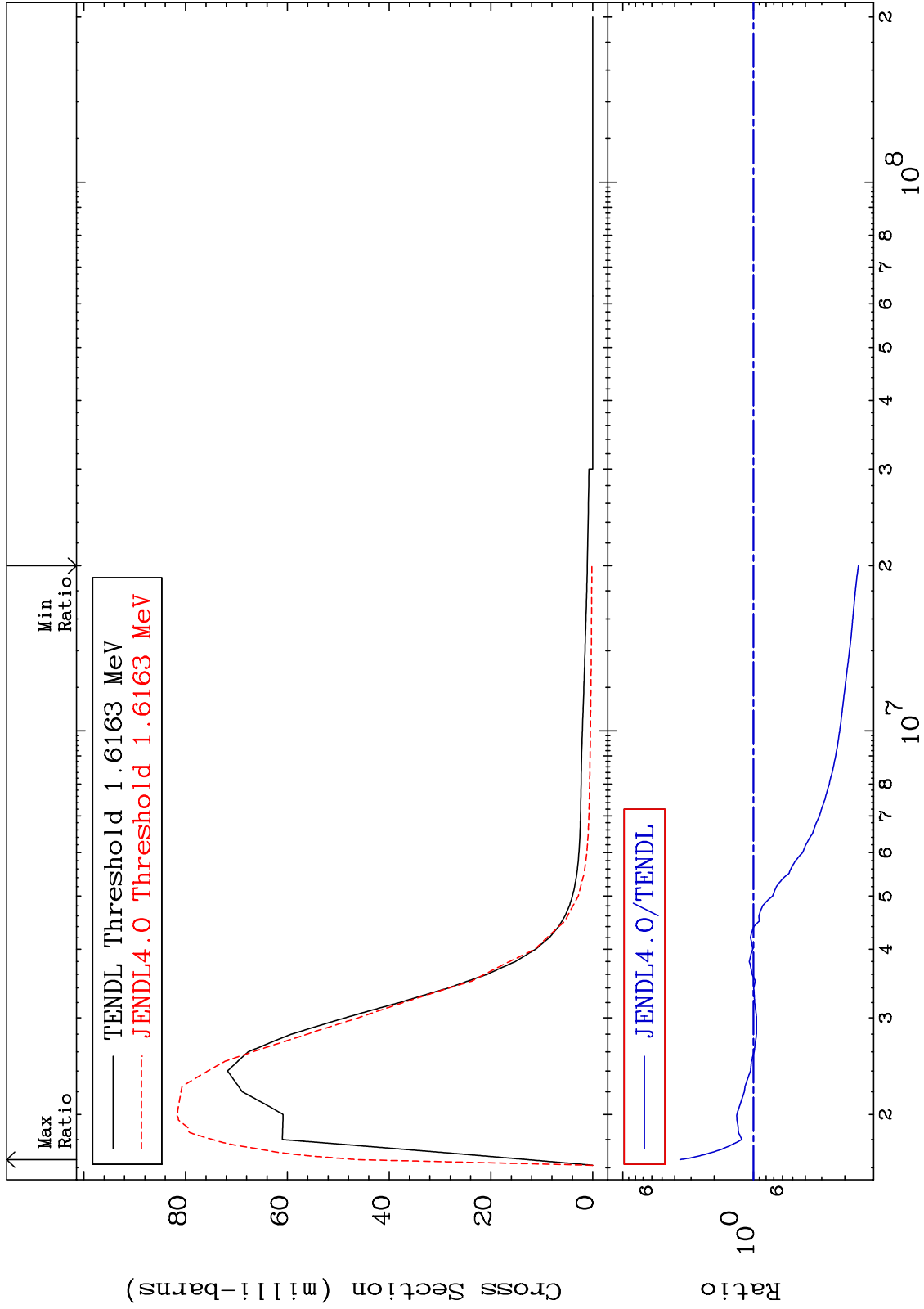
MAT 6425 MT= 65 (n,n') Level Cross Section 64-Gd-152
 -66.71 To 29.94 %



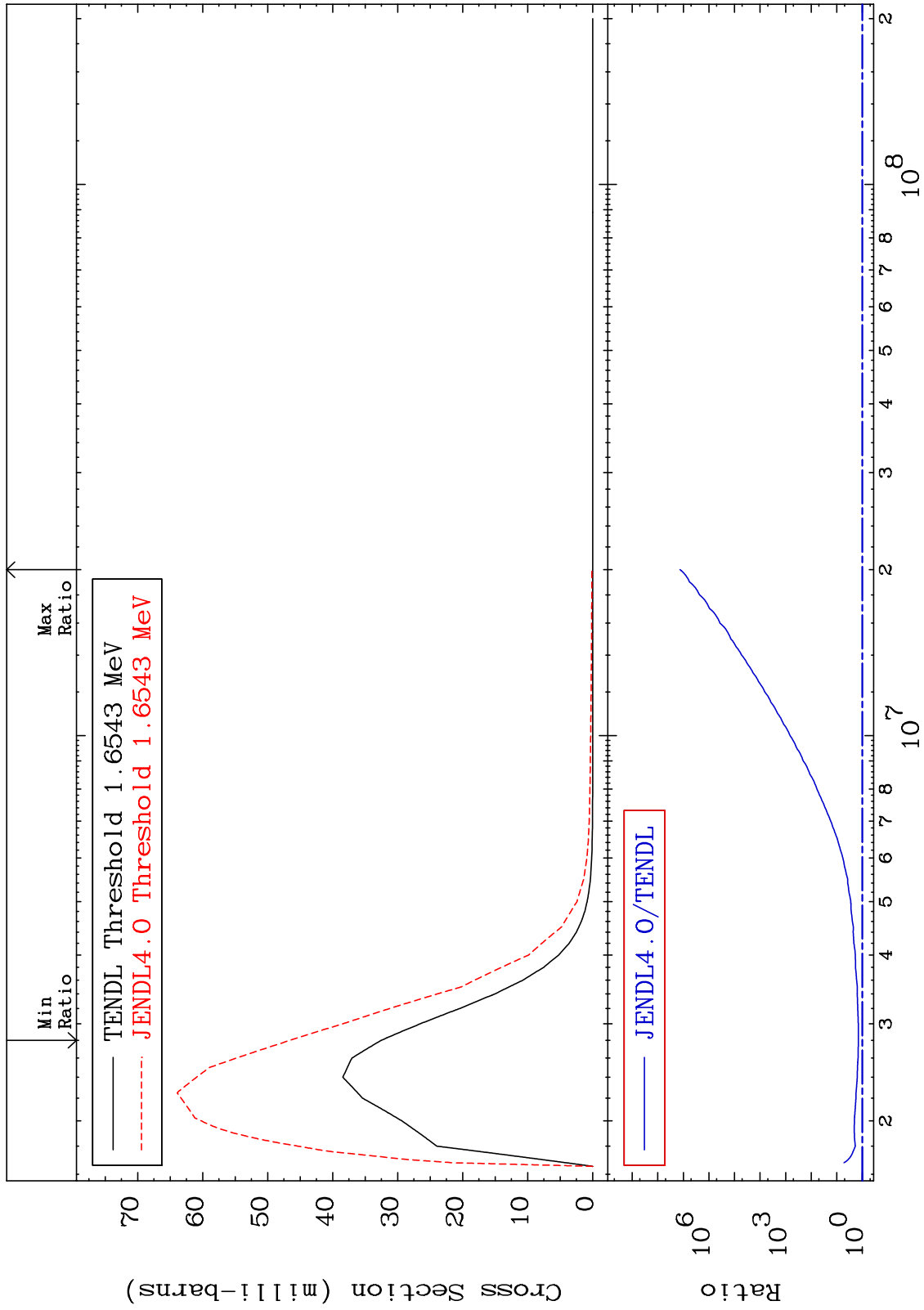
MAT 6425

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

64-Gd-152
-84.27 To 264.6 %



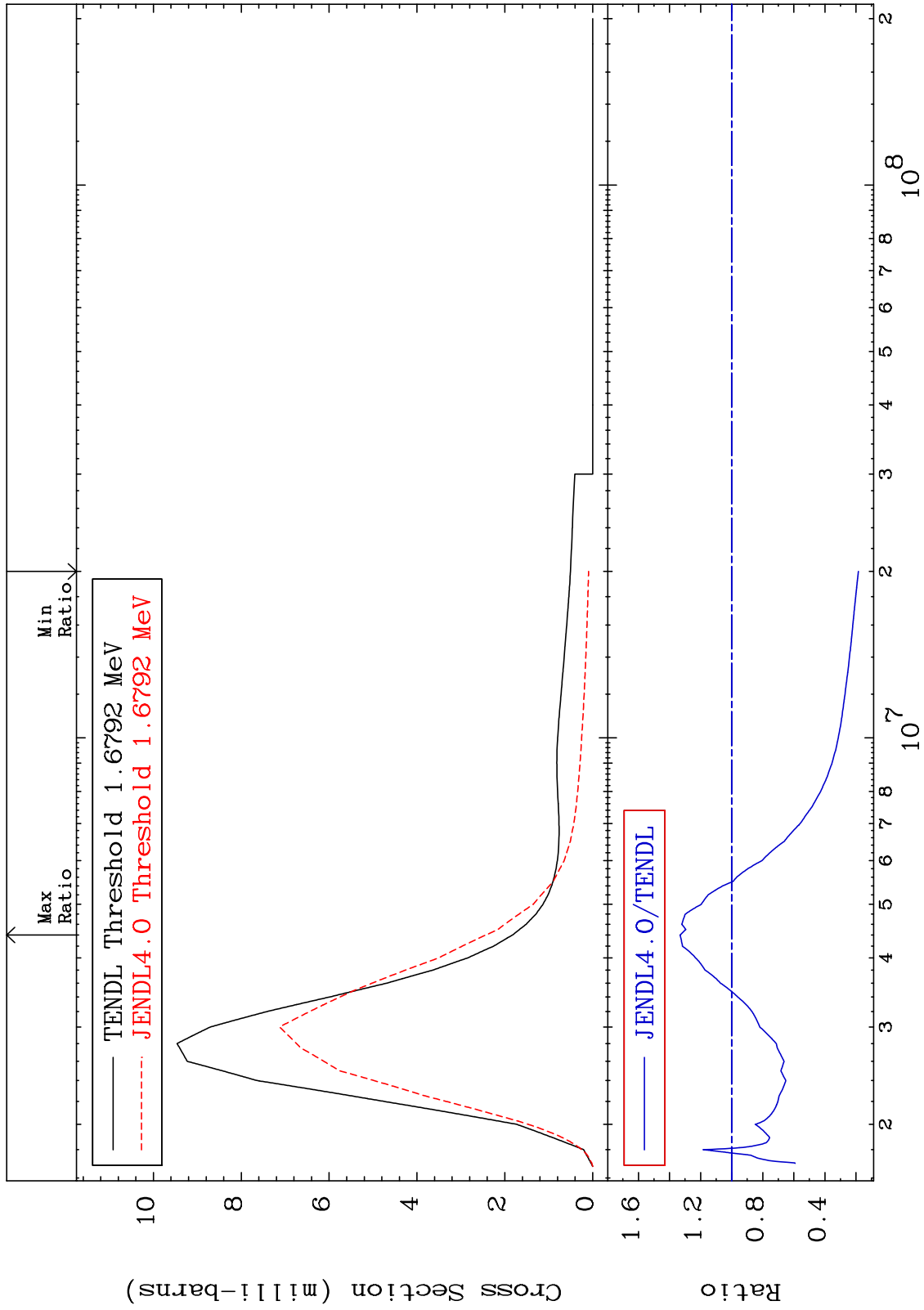
MAT 6425 MT= 67 (n,n') Level Cross Section 64-Gd-152
 43.18 To 9999. %



MAT 6425

MT= 68 (n,n') Level
Cross Section

64-Gd-152
-81.57 To 33.23 %



30

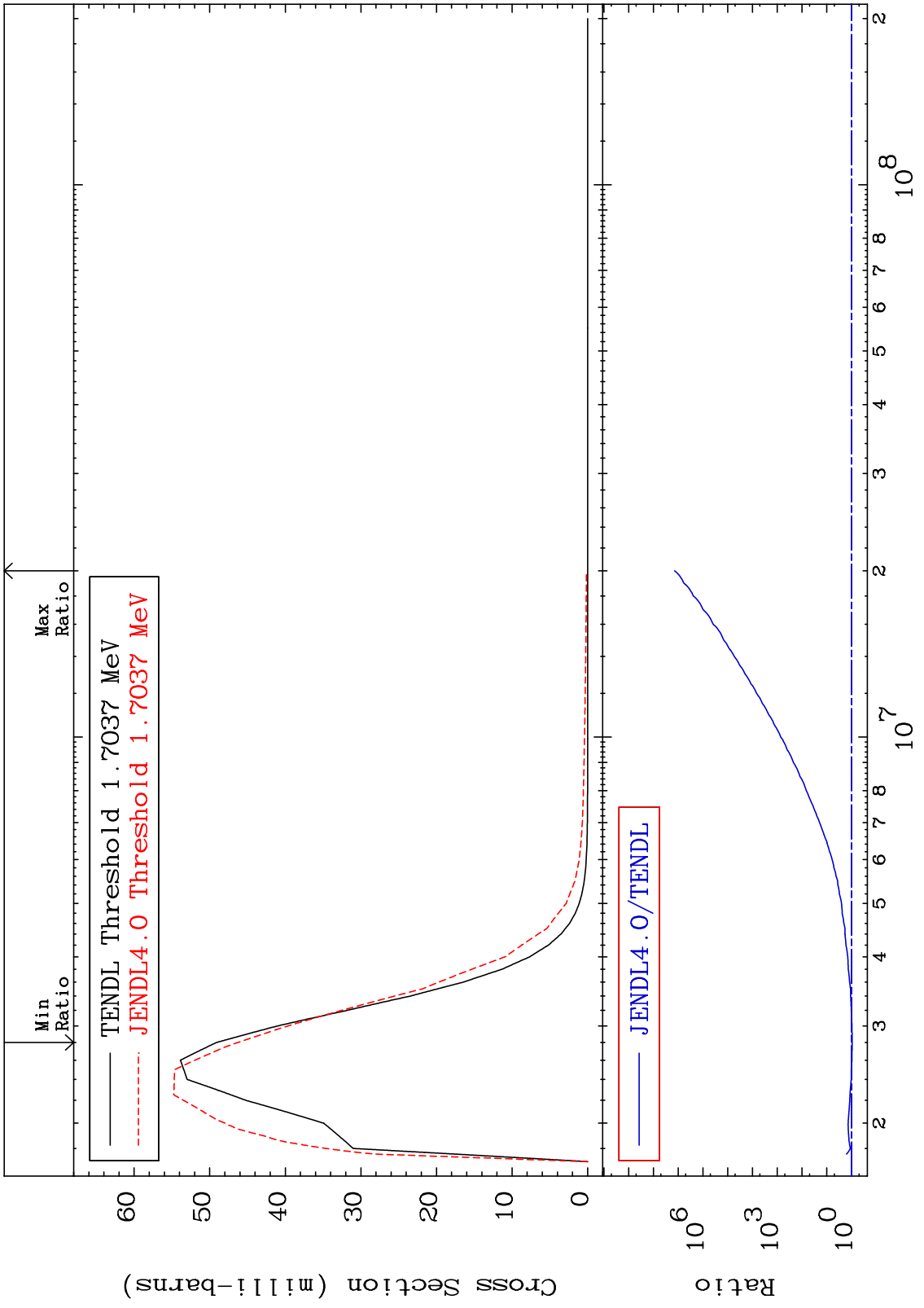
Incident Energy (eV)

64-Gd-152

MAT 6425

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

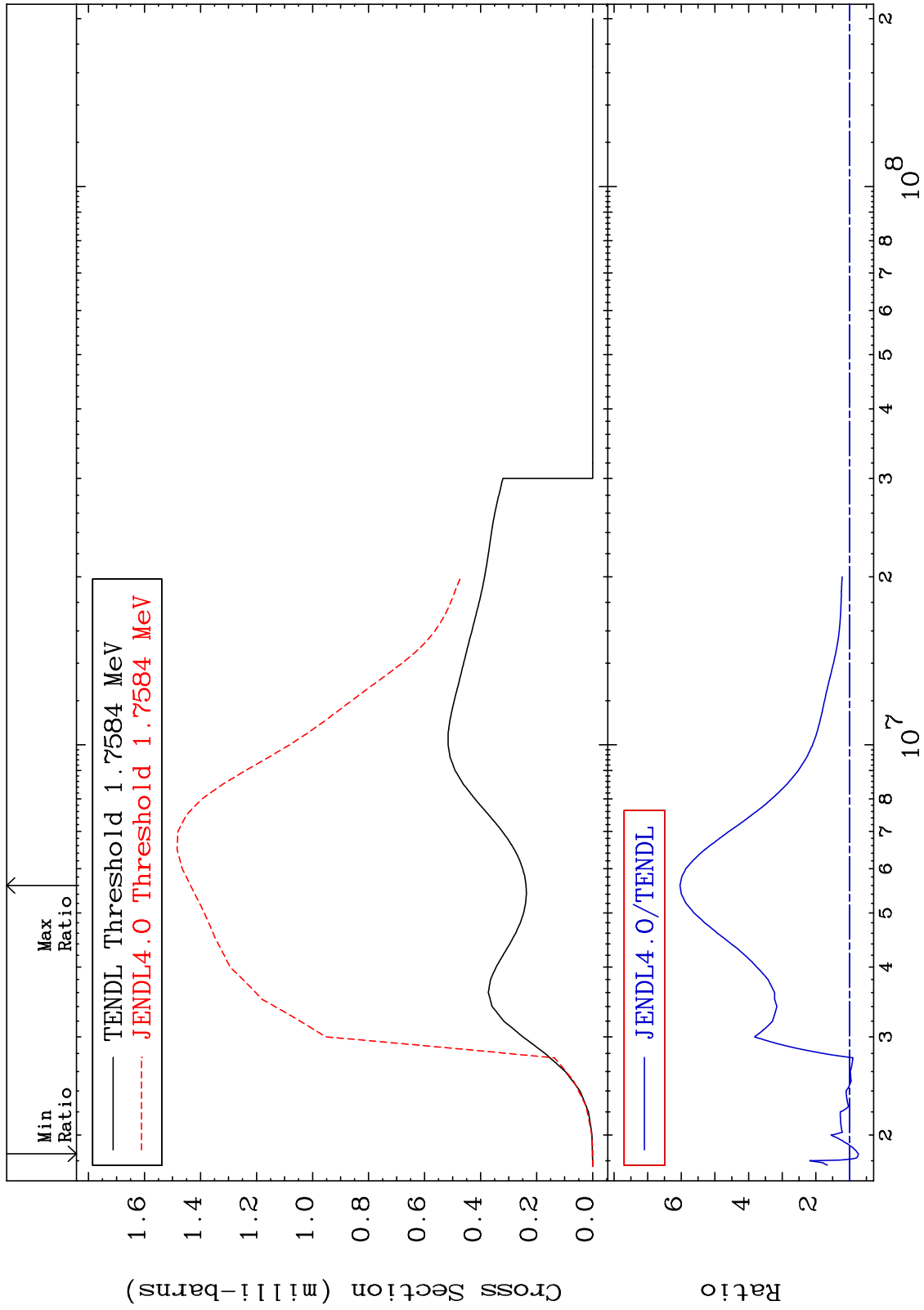
64-Gd-152
-5.784 To 9999. %



MAT 6425

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

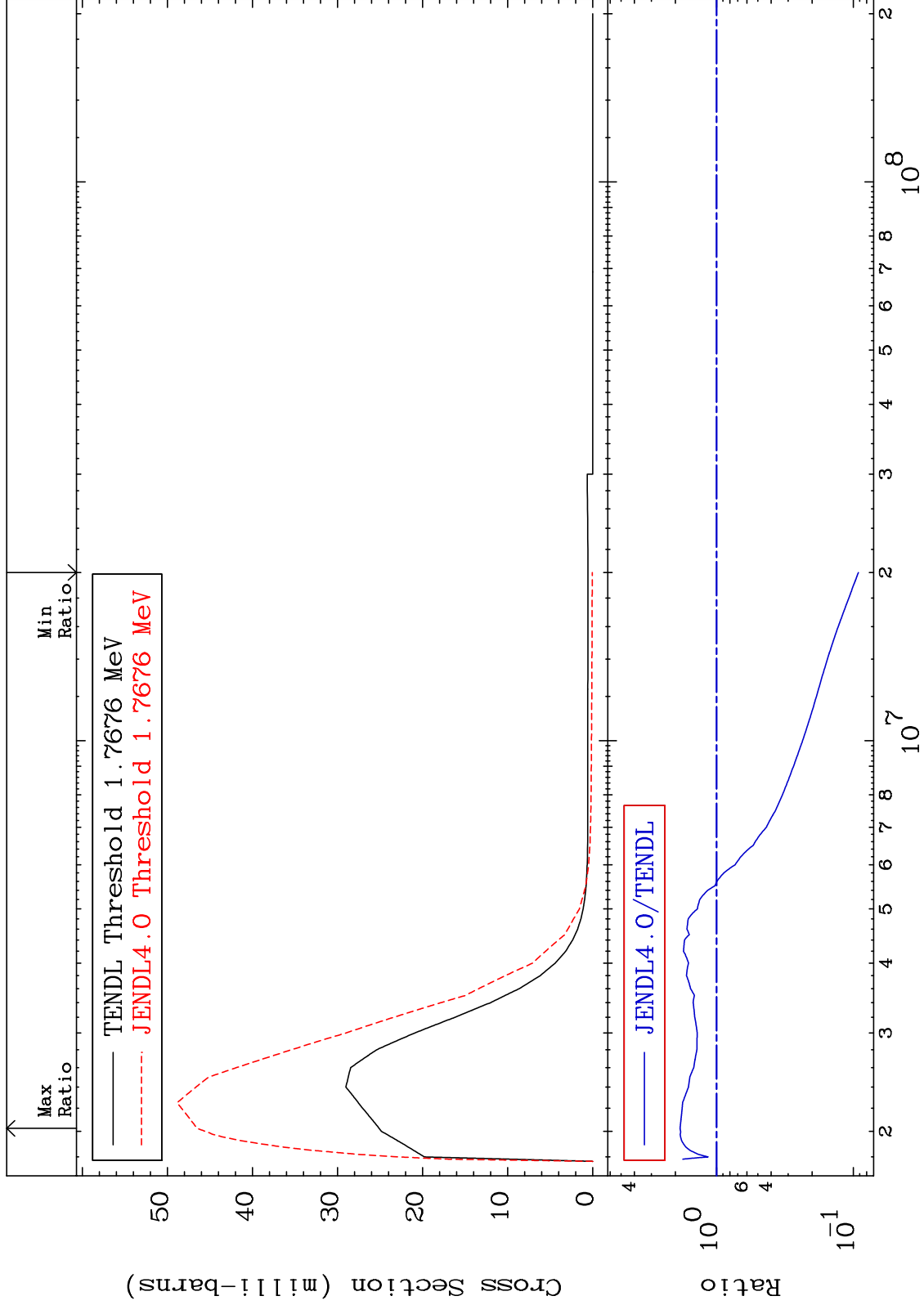
64-Gd-152
-26.47 To 503.8 %



MAT 6425

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

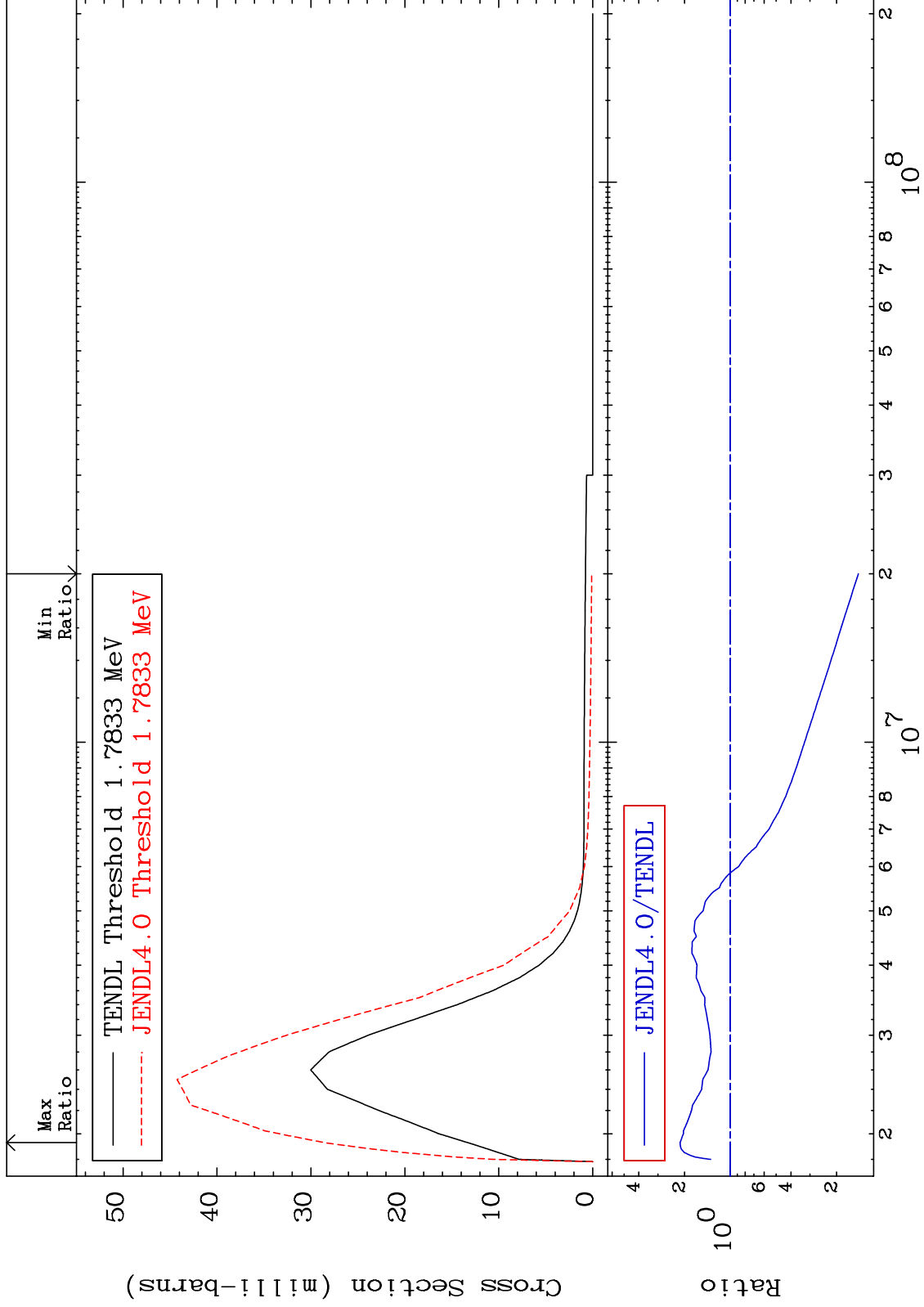
64-Gd-152
-90.81 To 85.24 %



MAT 6425

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

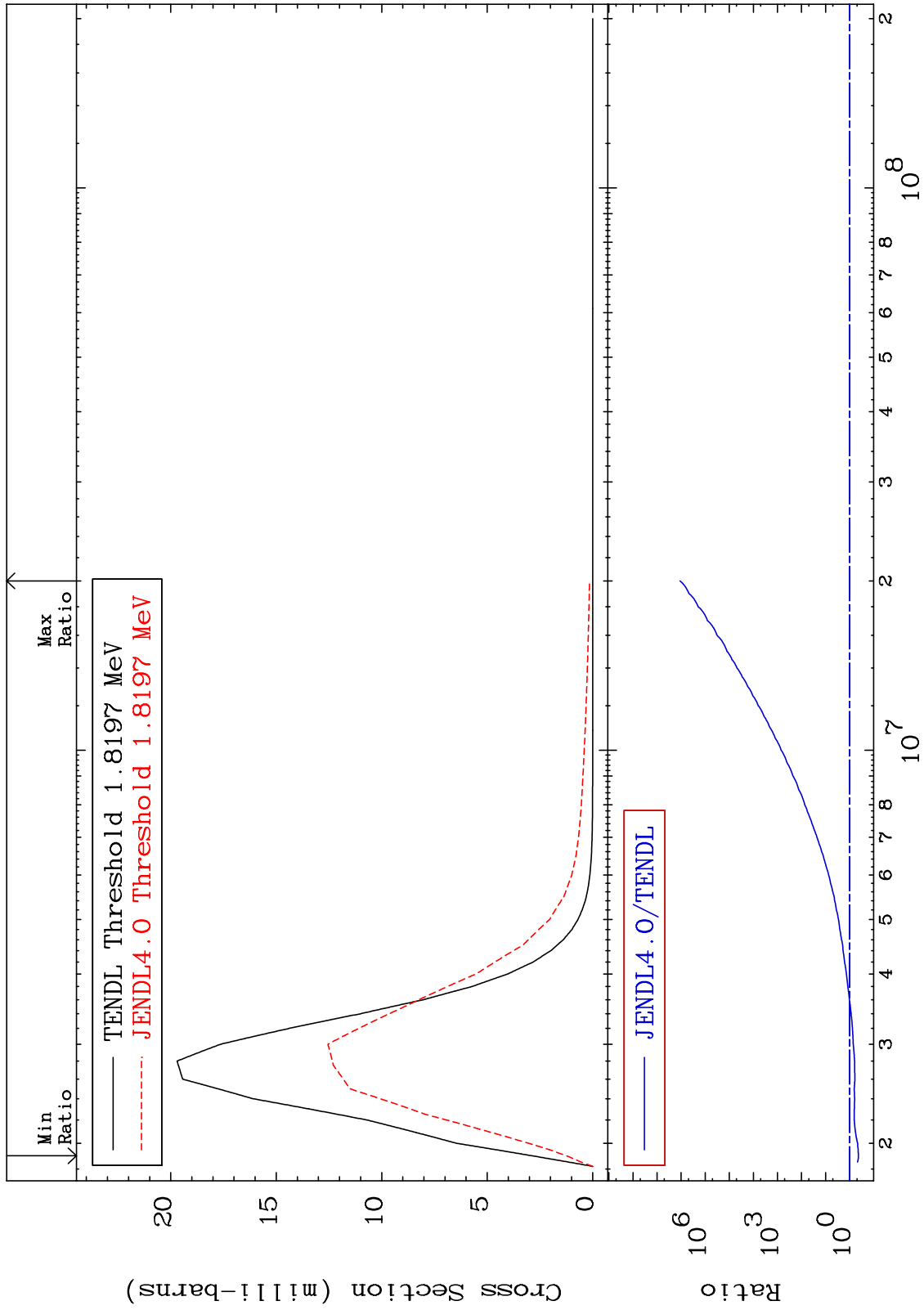
64-Gd-152
-85.62 To 114.4 %



MAT 6425

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

64-Gd-152
-56.50 To 9999. %



35

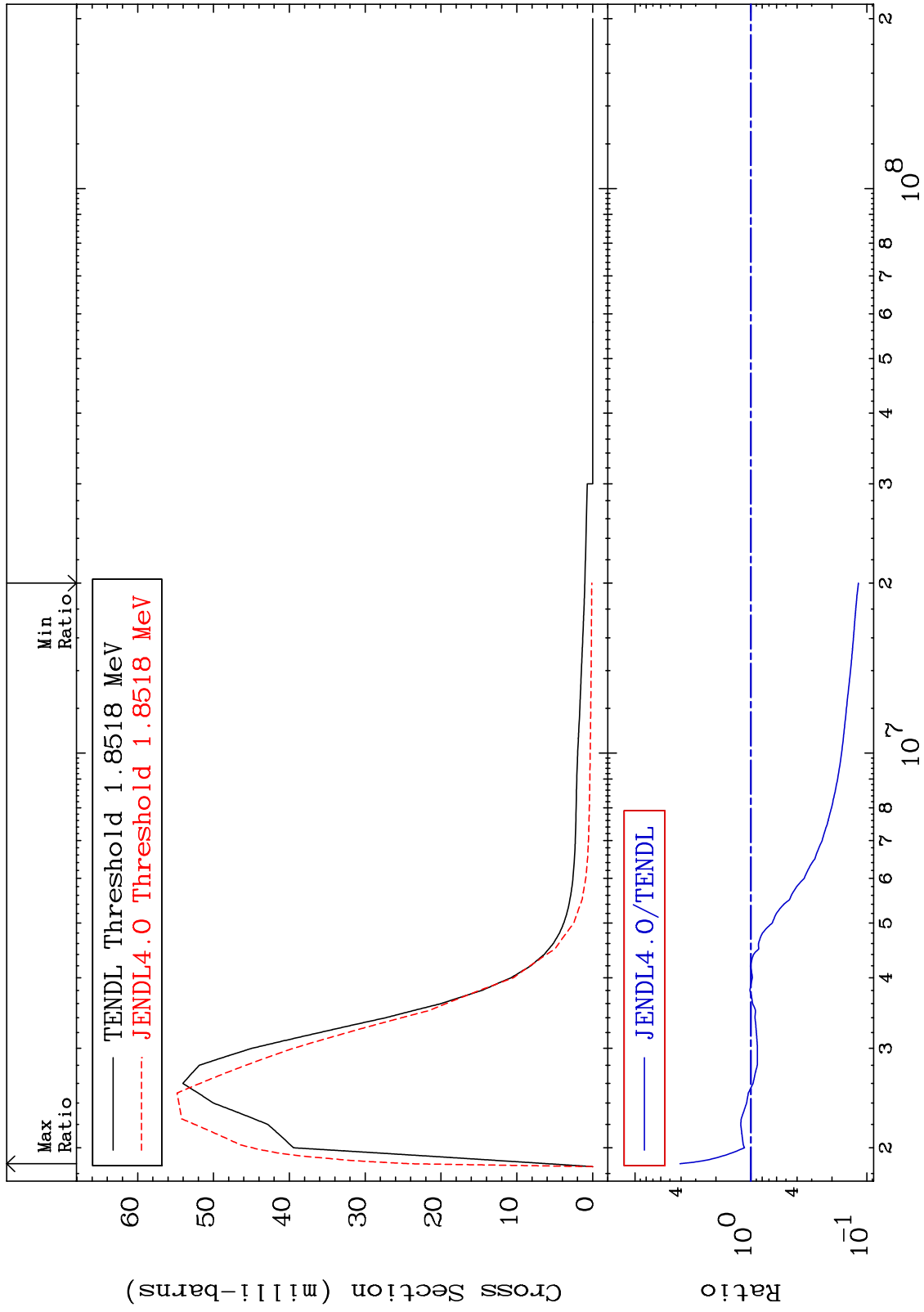
Incident Energy (eV)

64-Gd-152

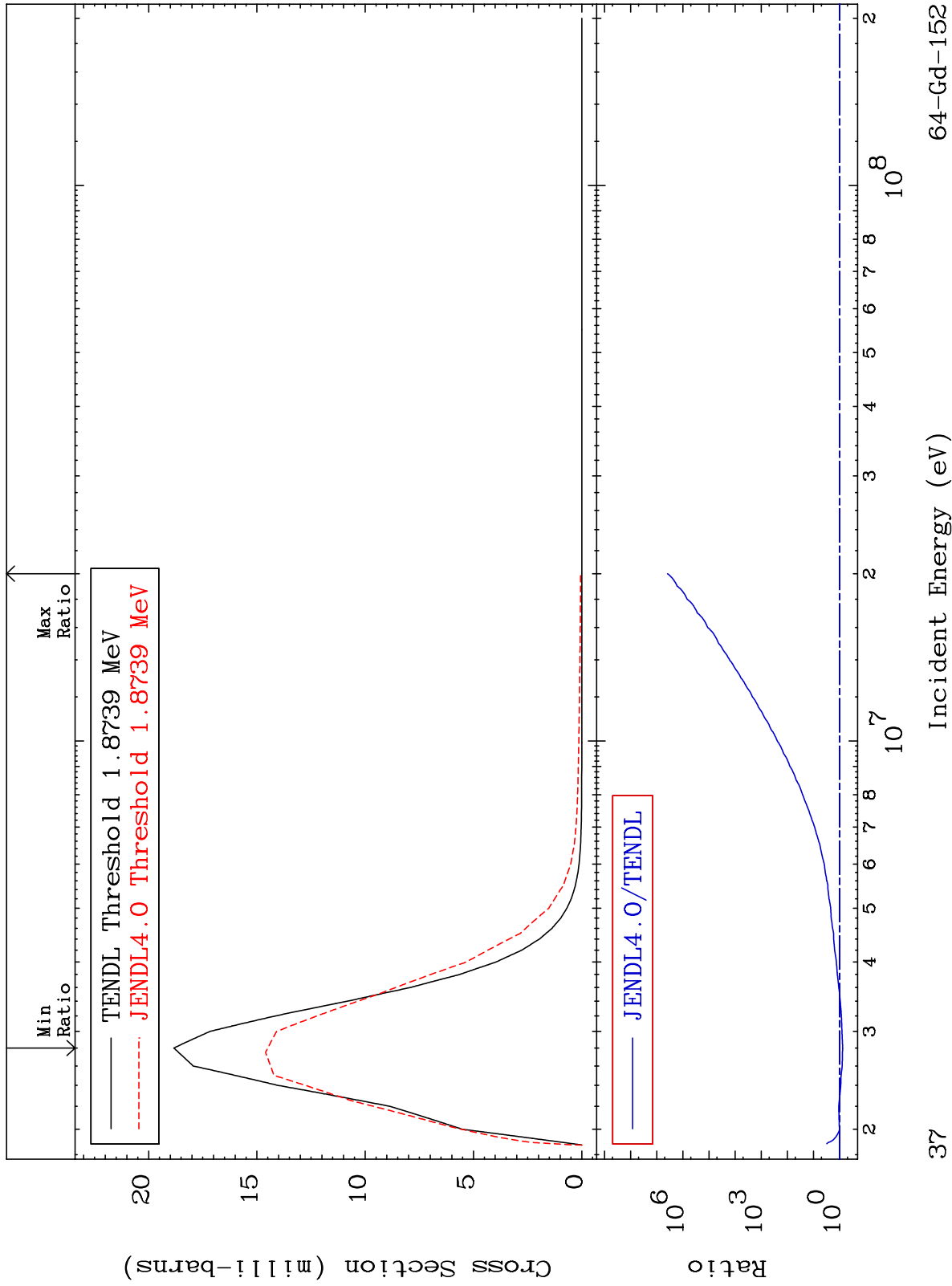
MAT 6425

MT= 74 (n,n') Level
Cross Section

64-Gd-152
-88.16 To 308.7 %



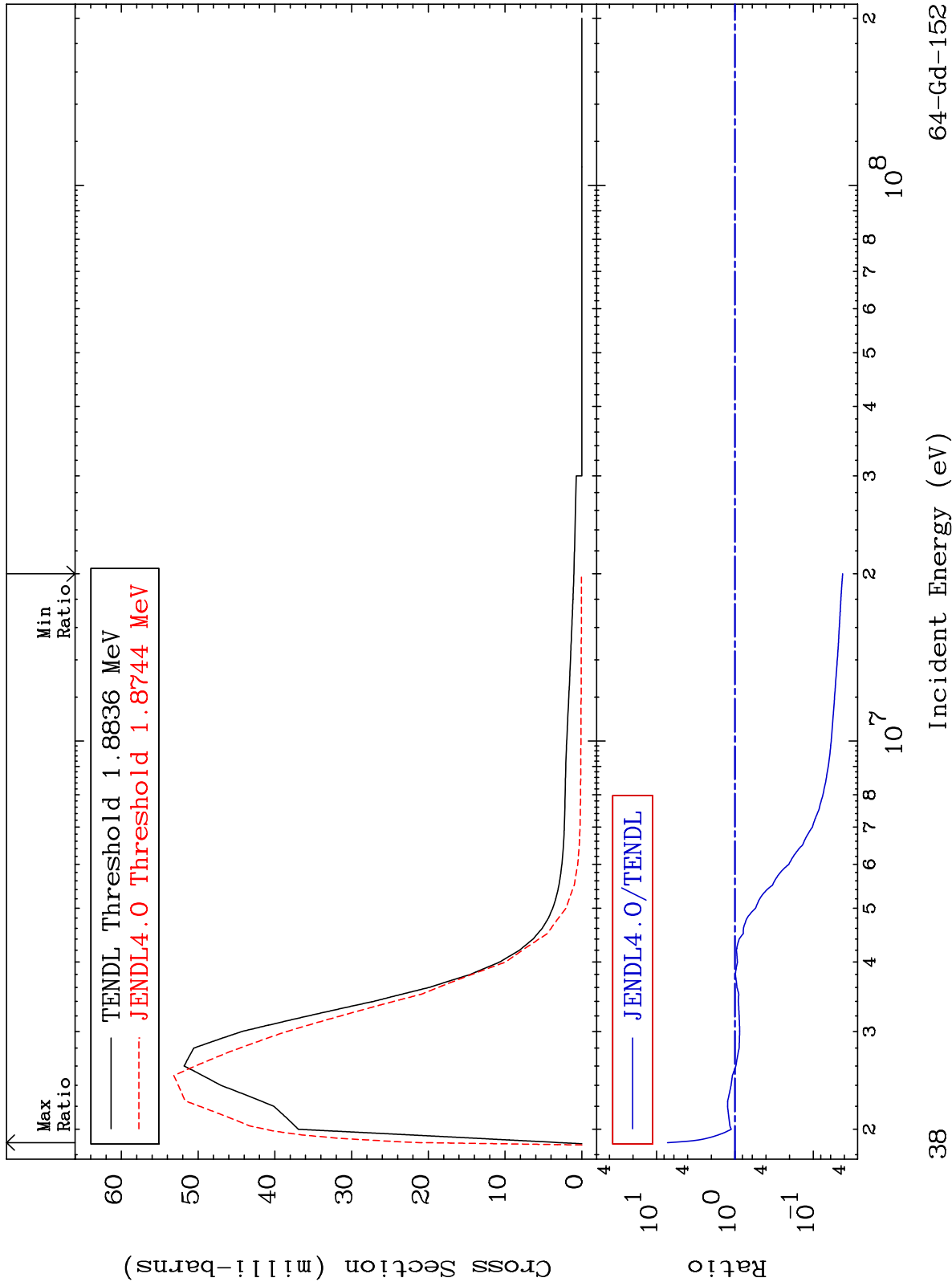
MAT 6425 MT= 75 (n,n') Level Cross Section 64-Gd-152
 -23.02 To 9999. %



MAT 6425

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

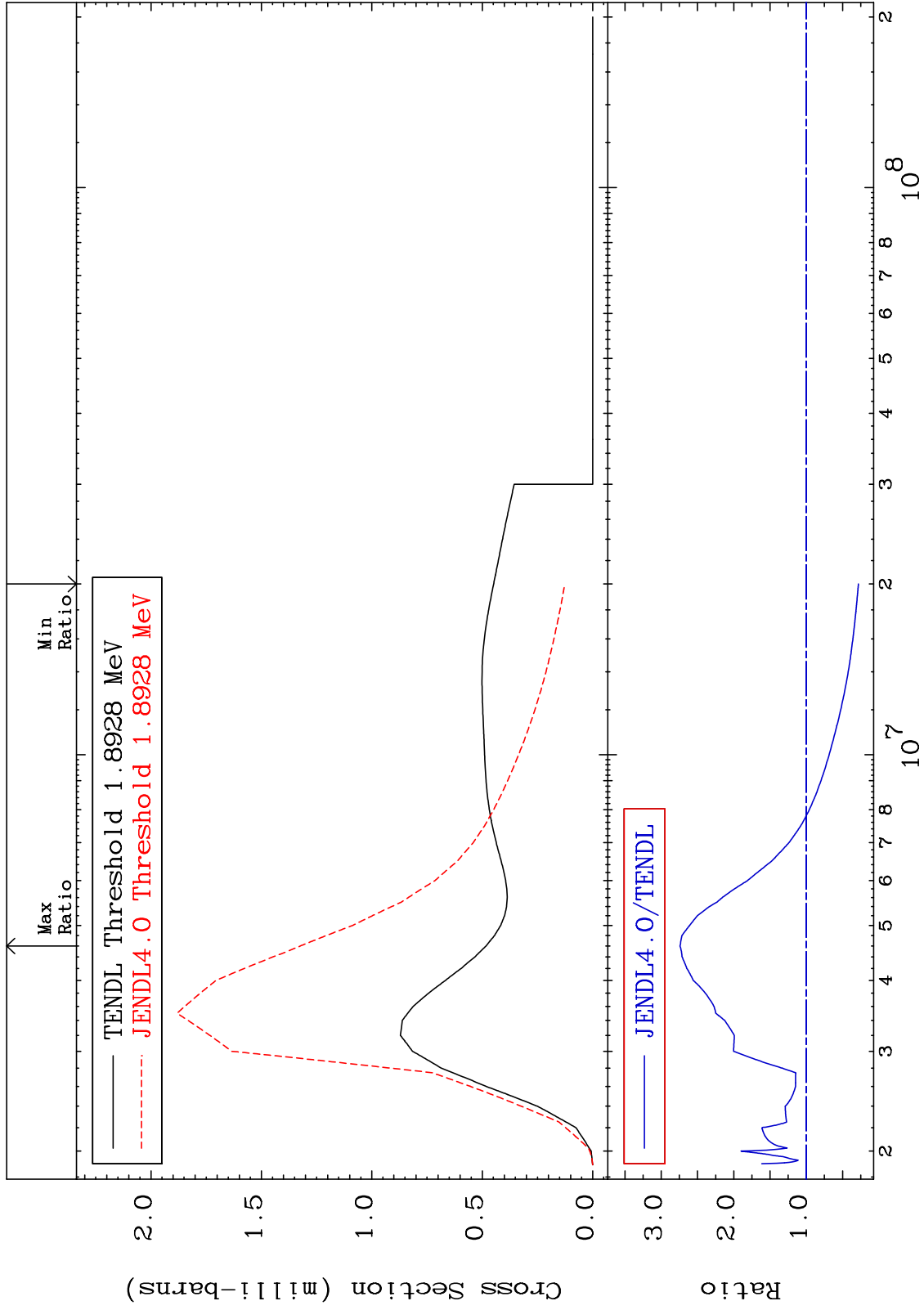
64-Gd-152
-95.79 To 623.5 %



MAT 6425

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

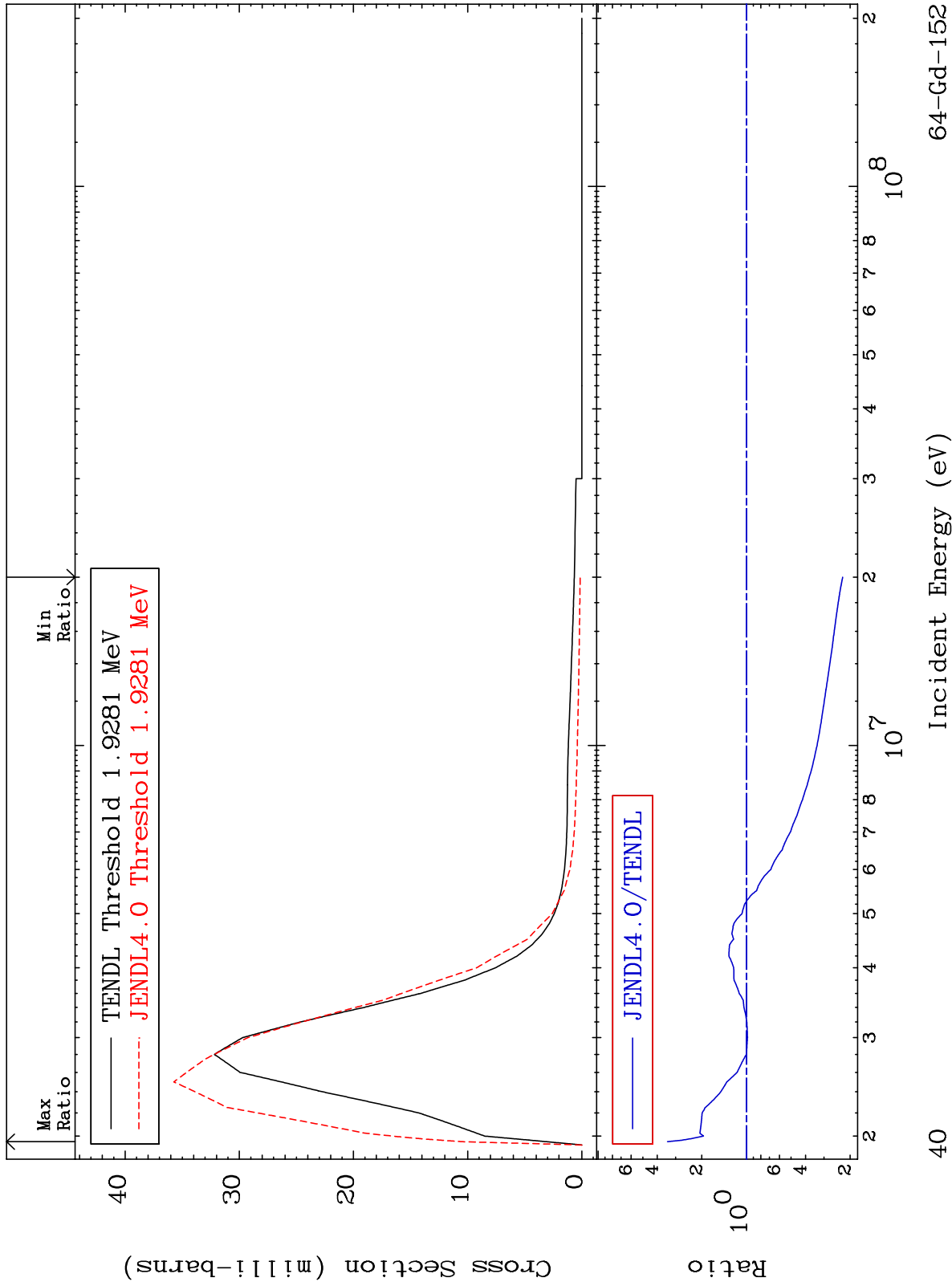
64-Gd-152
-71.84 To 174.1 %



MAT 6425

MT= 78 (n,n') Level
Cross Section

64-Gd-152
-77.54 To 240.5 %

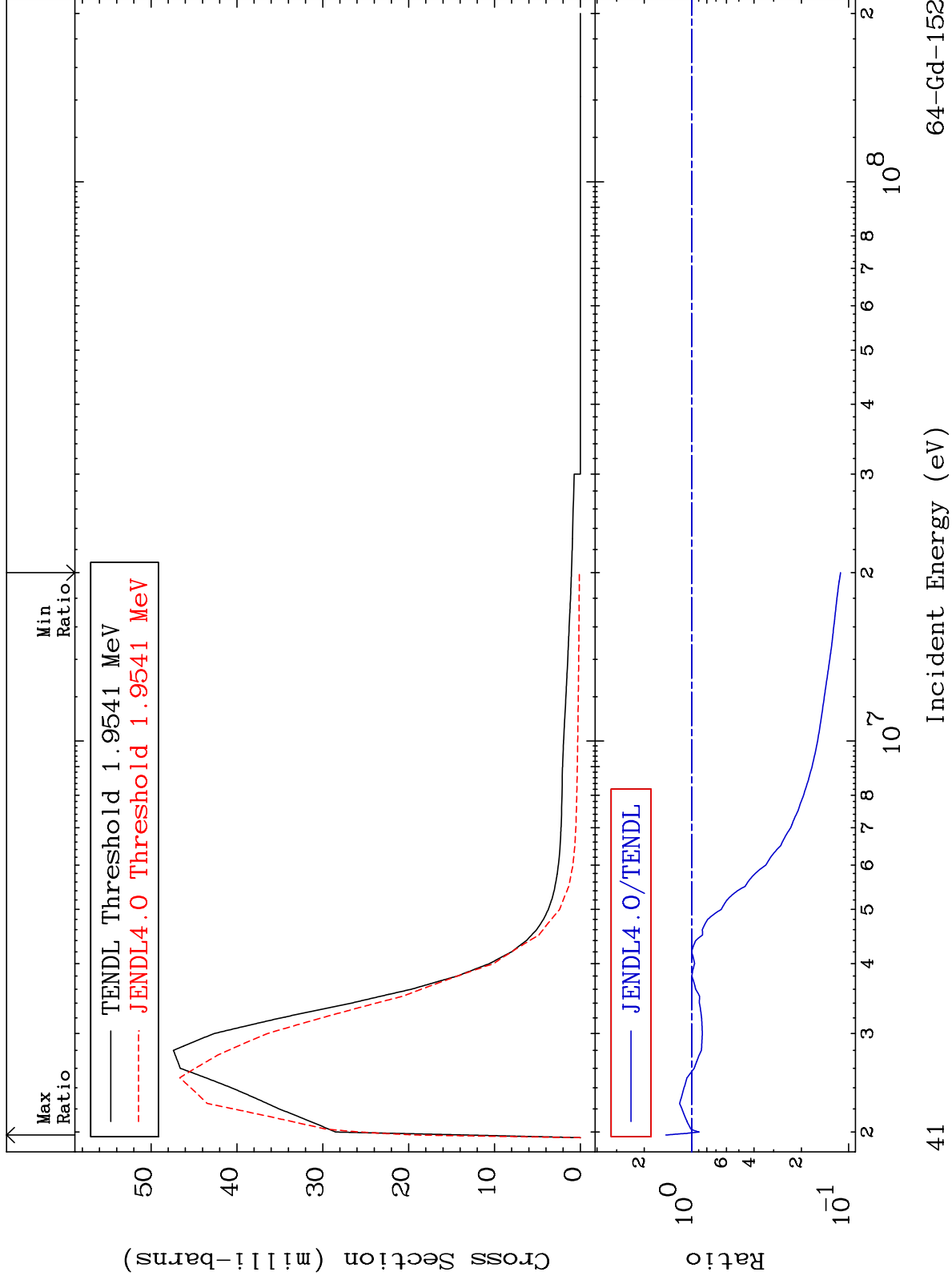


40

MAT 6425

MT= 79 (n,n') Level
Cross Section

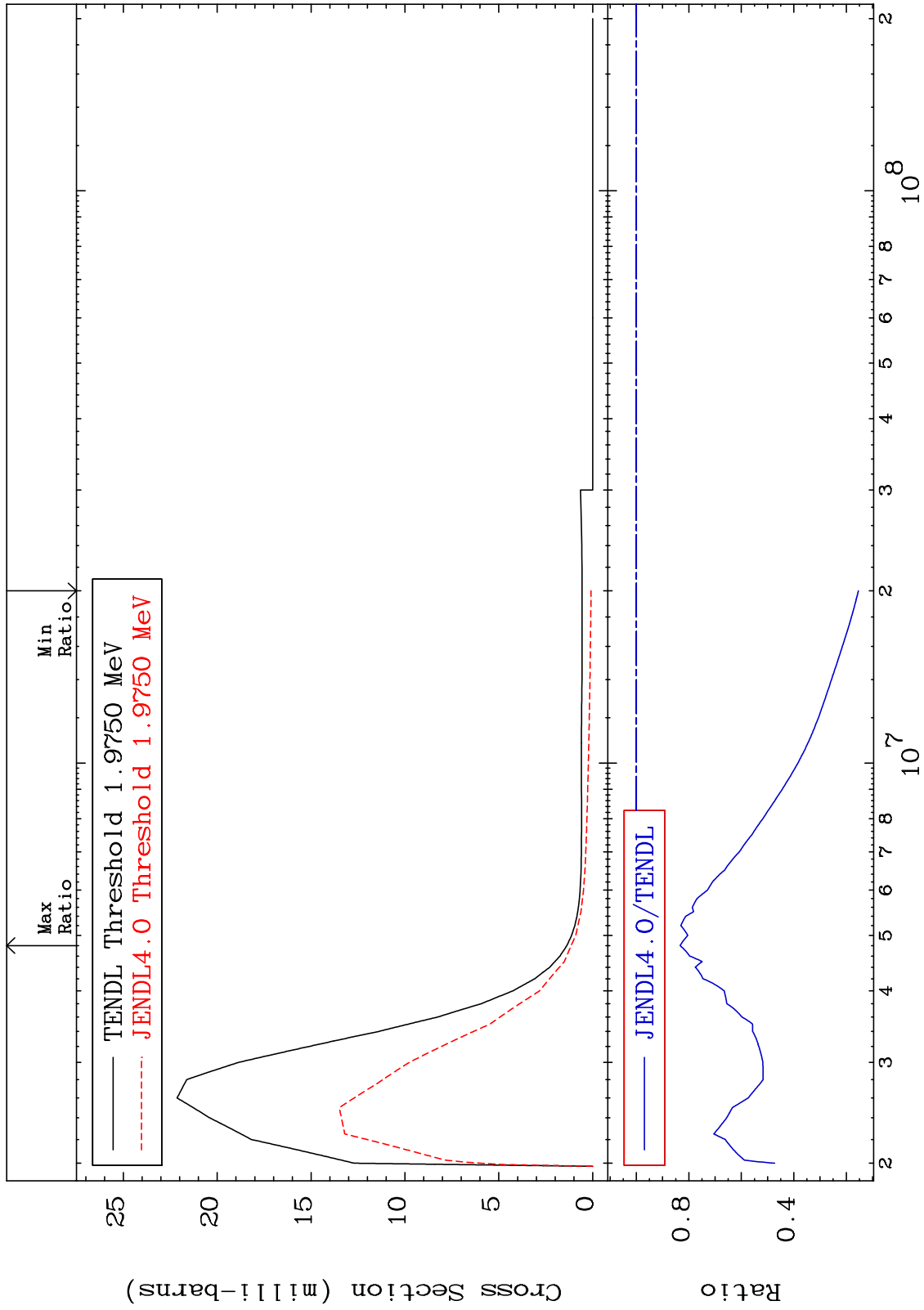
64-Gd-152
-88.74 To 45.77 %



MAT 6425

MT= 80 (n,n') Level
Cross Section

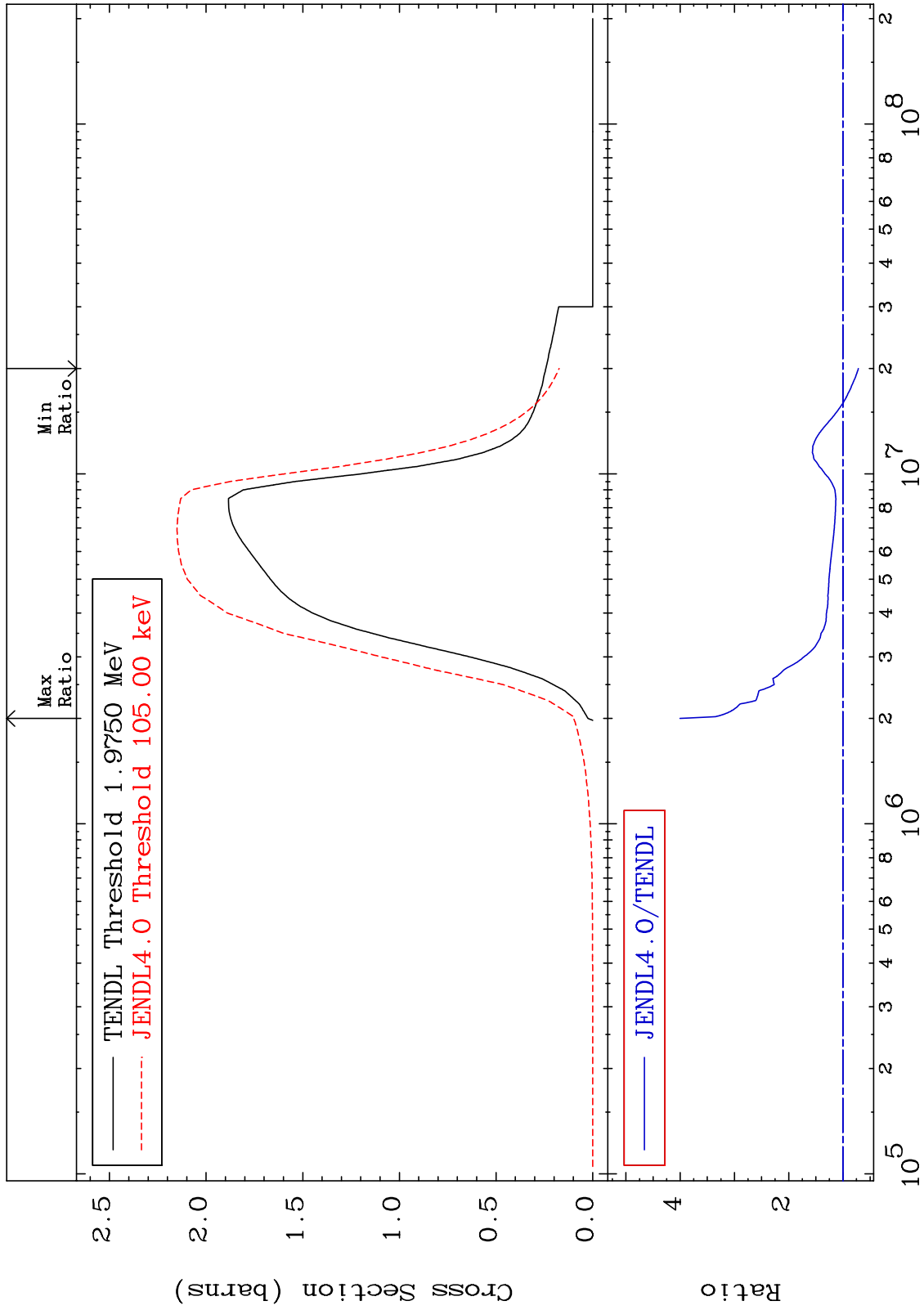
64-Gd-152
-84.62 To -16.64%



MAT 6425

(n, n') Continuum
Cross Section

64-Gd-152
-28.51 To 300.3 %



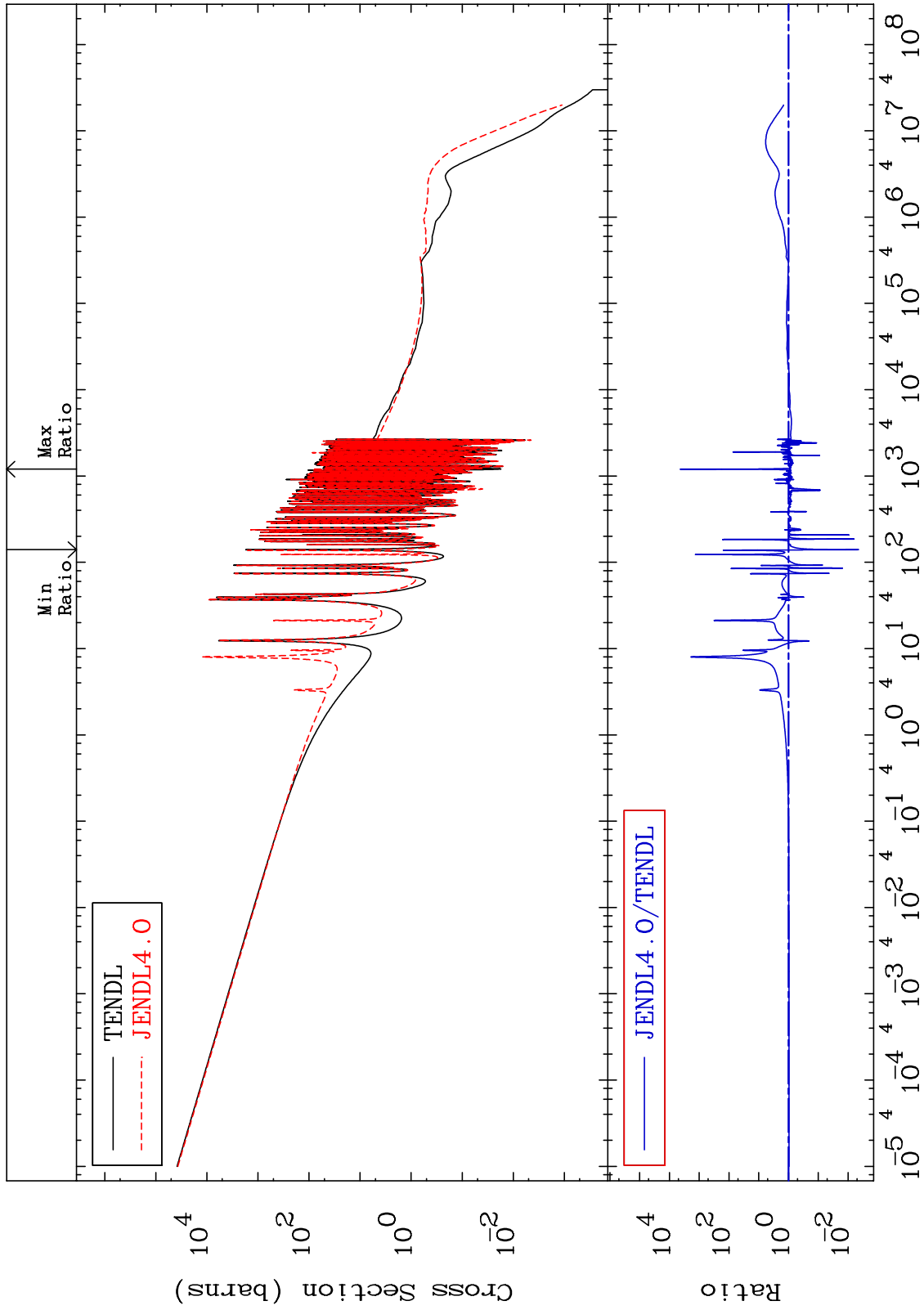
64-Gd-152

43

MAT 6425

(n, γ)
Cross Section

64-Gd-152
-99.55 To 9999. %



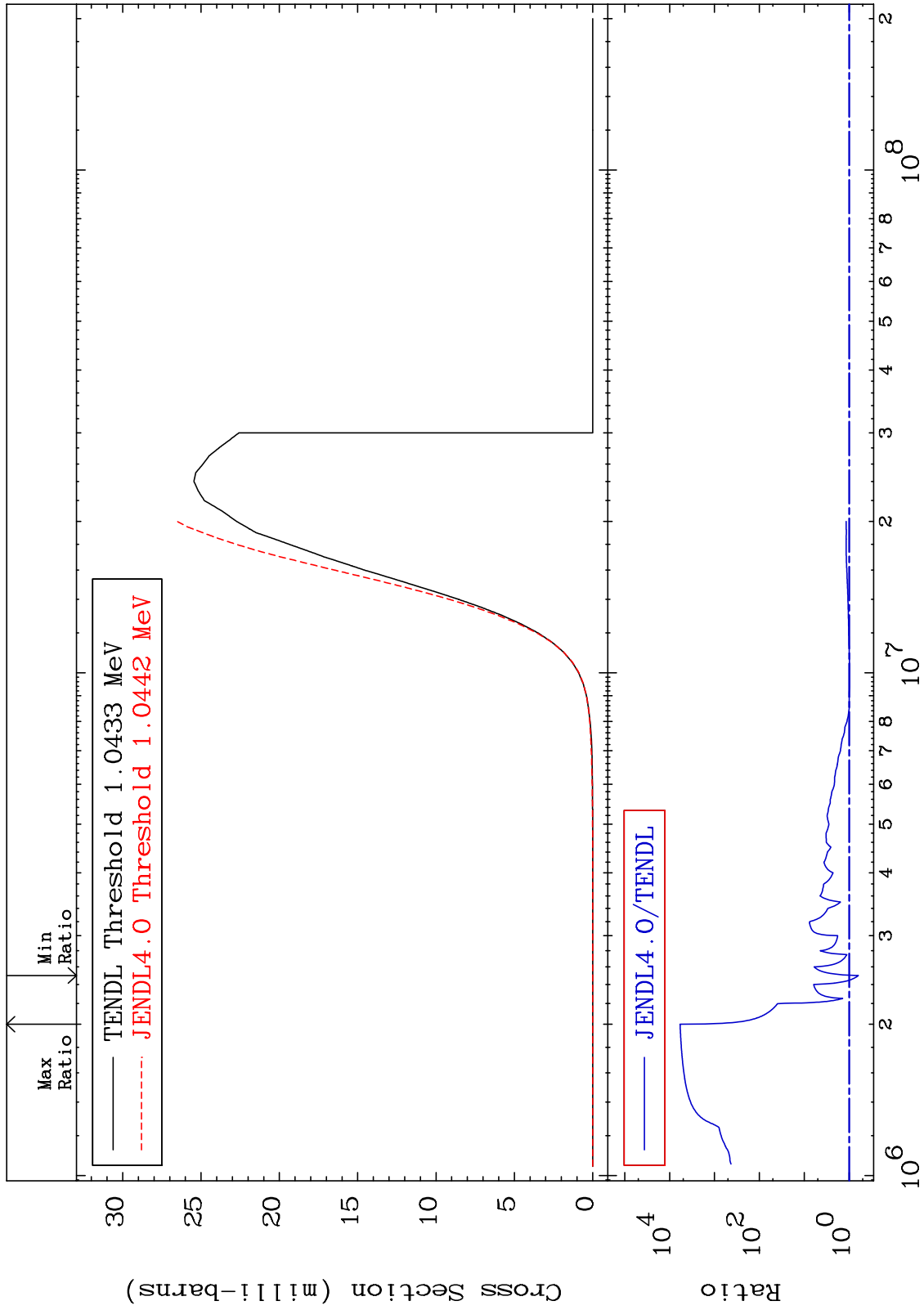
MAT 6425

(n,p)

64-Gd-152

Cross Section

-37.56 To 9999. %



45

Incident Energy (eV)

64-Gd-152

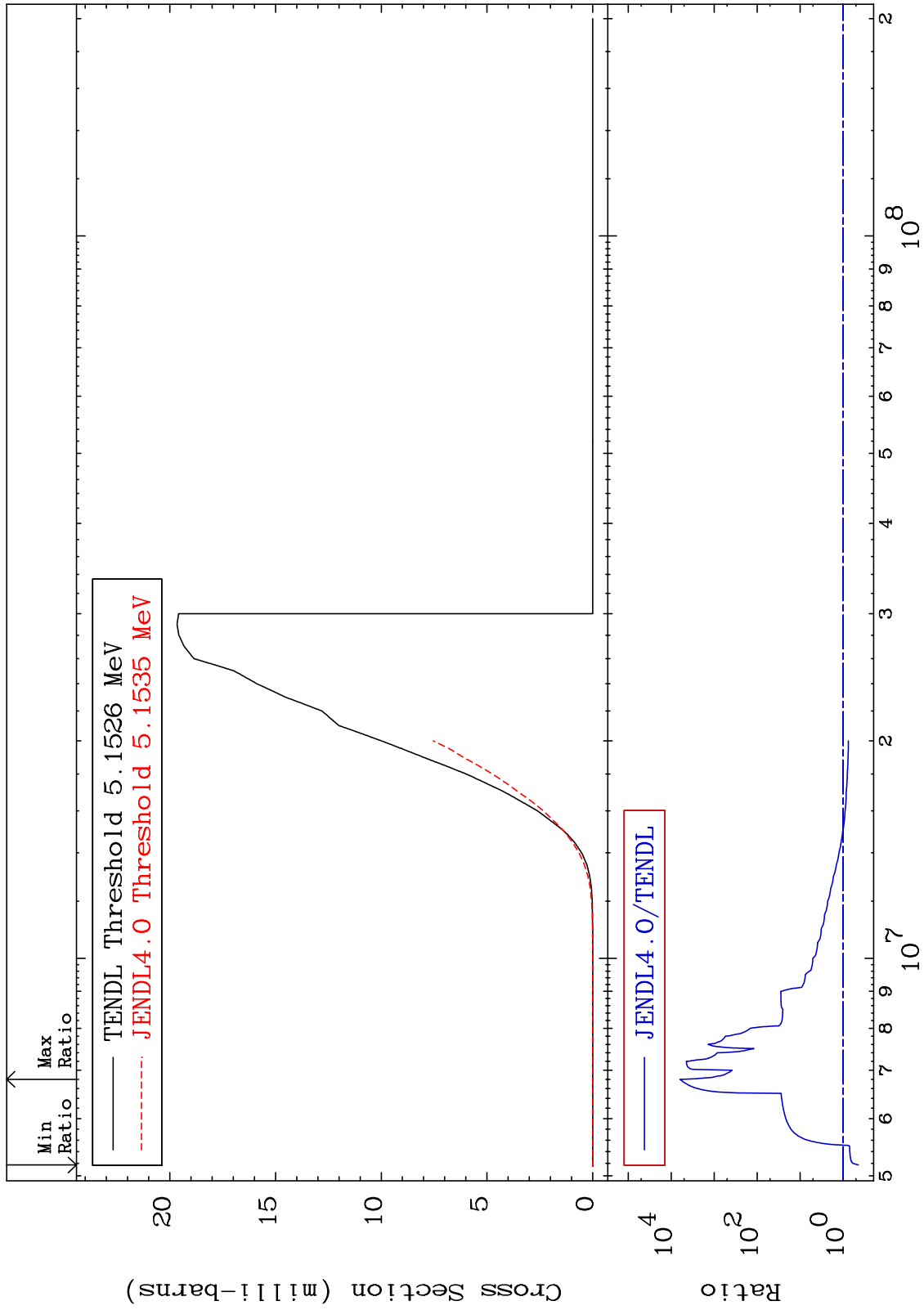
MAT 6425

(n, d)

64-Gd-152

Cross Section

-56.24 To 9999. %

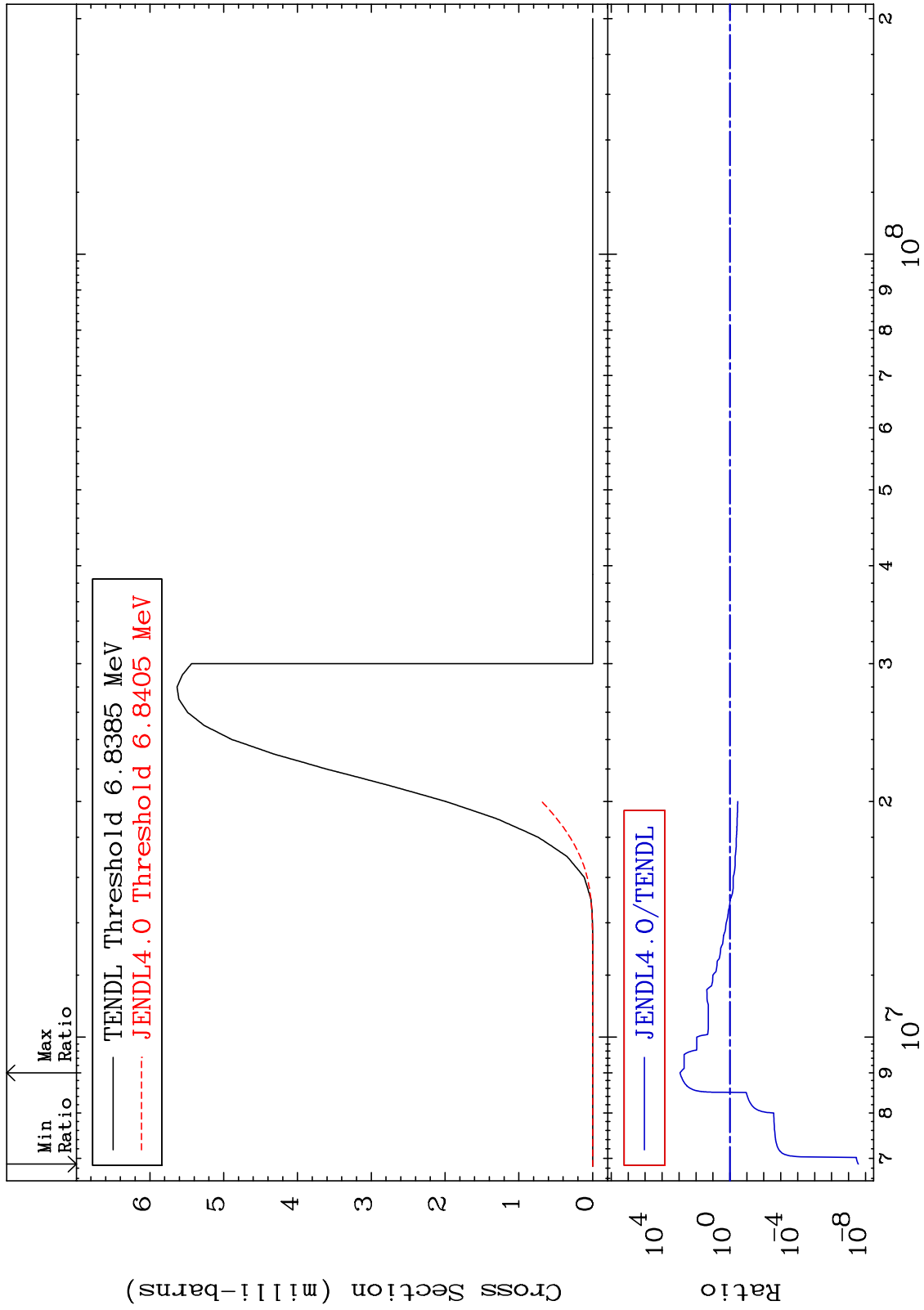


46

Incident Energy (eV)

64-Gd-152

MAT 6425 (n, t) Cross Section 64-Gd-152 -100.0 To 9999. %



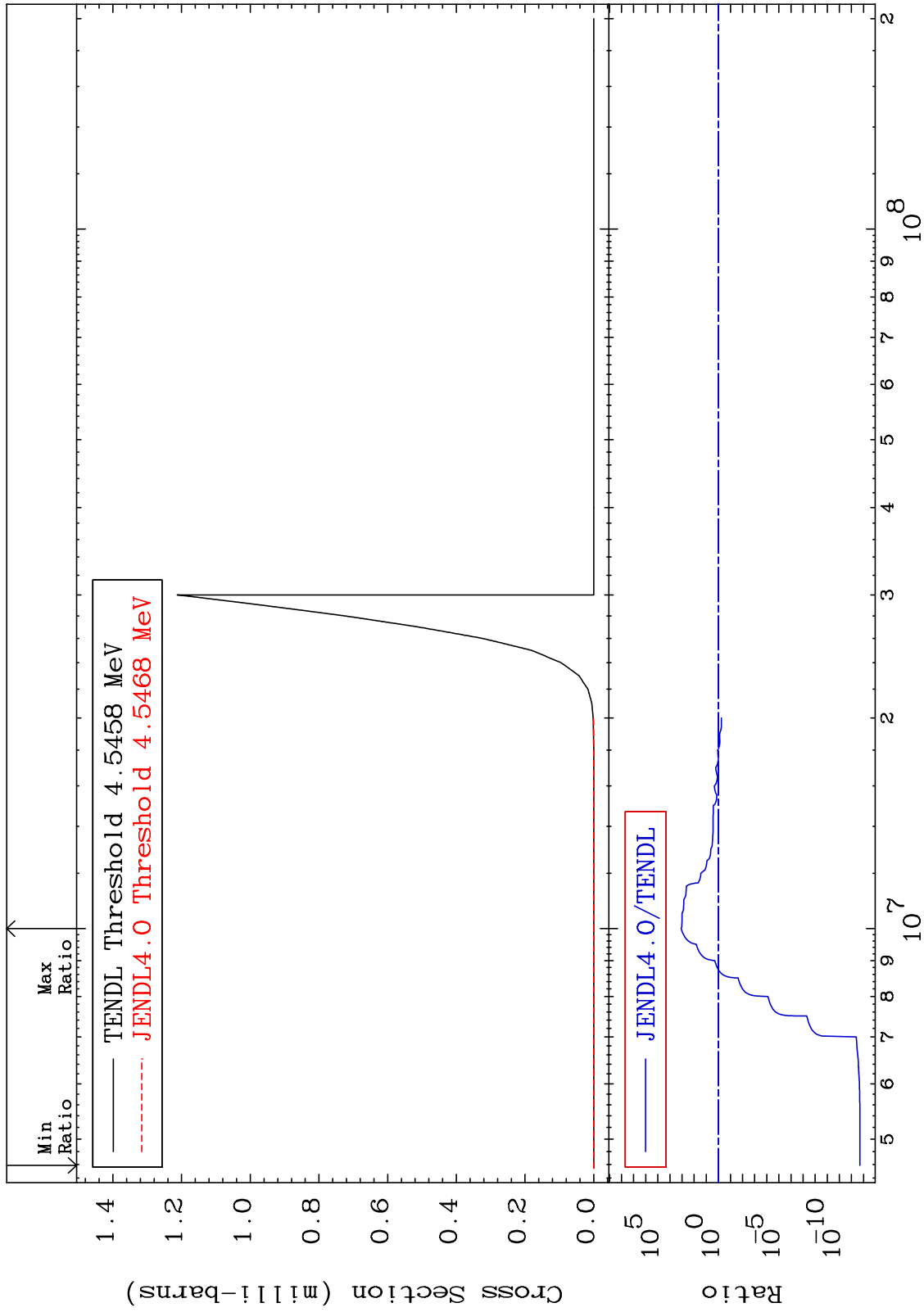
MAT 6425

(n, He-3)

64-Gd-152

Cross Section

-100.0 To 9999. %



48

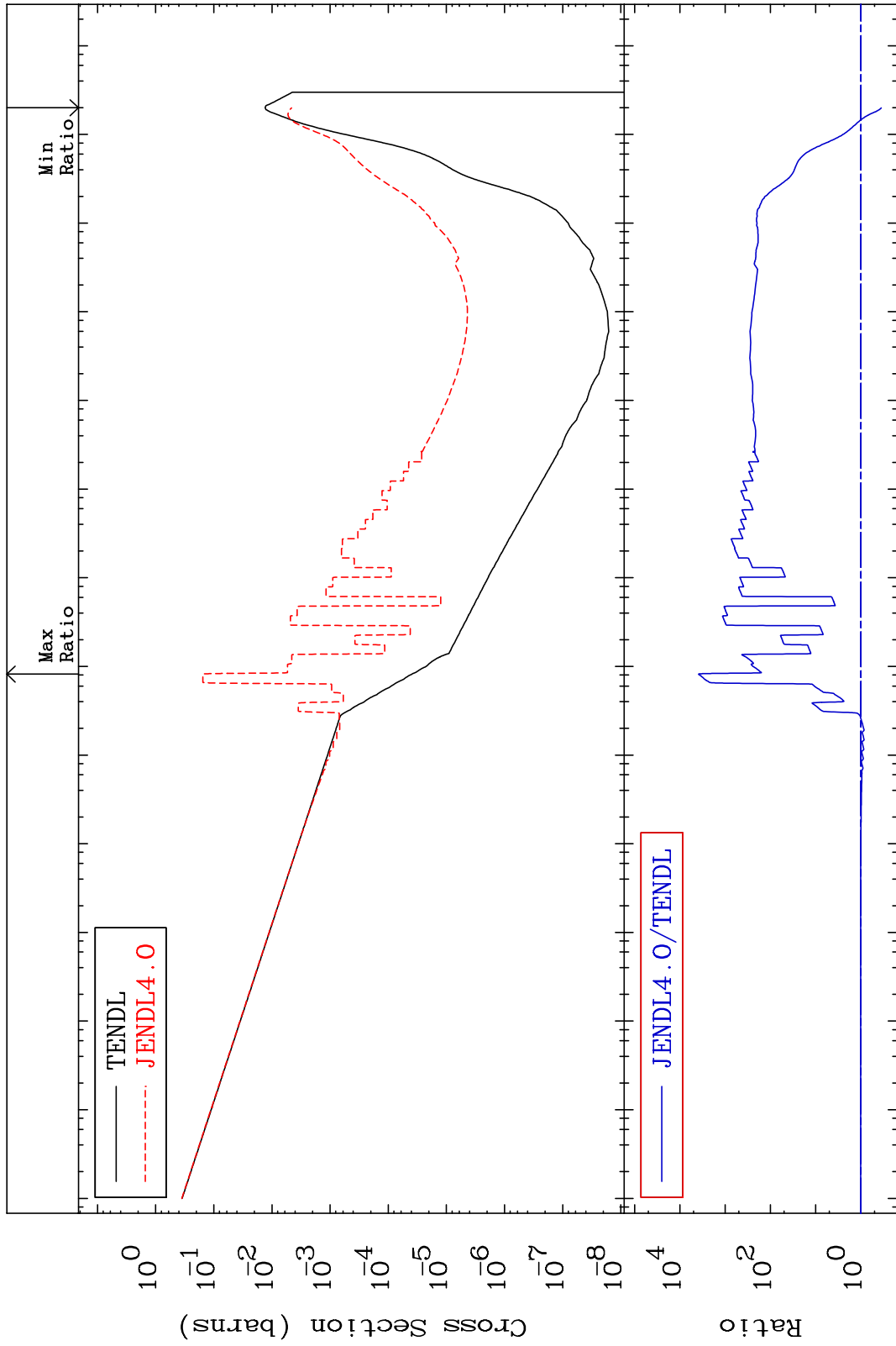
Incident Energy (eV)

64-Gd-152

MAT 6425

(n, α)
Cross Section

64-Gd-152
-65.13 To 9999. %



Incident Energy (eV)

64-Gd-152

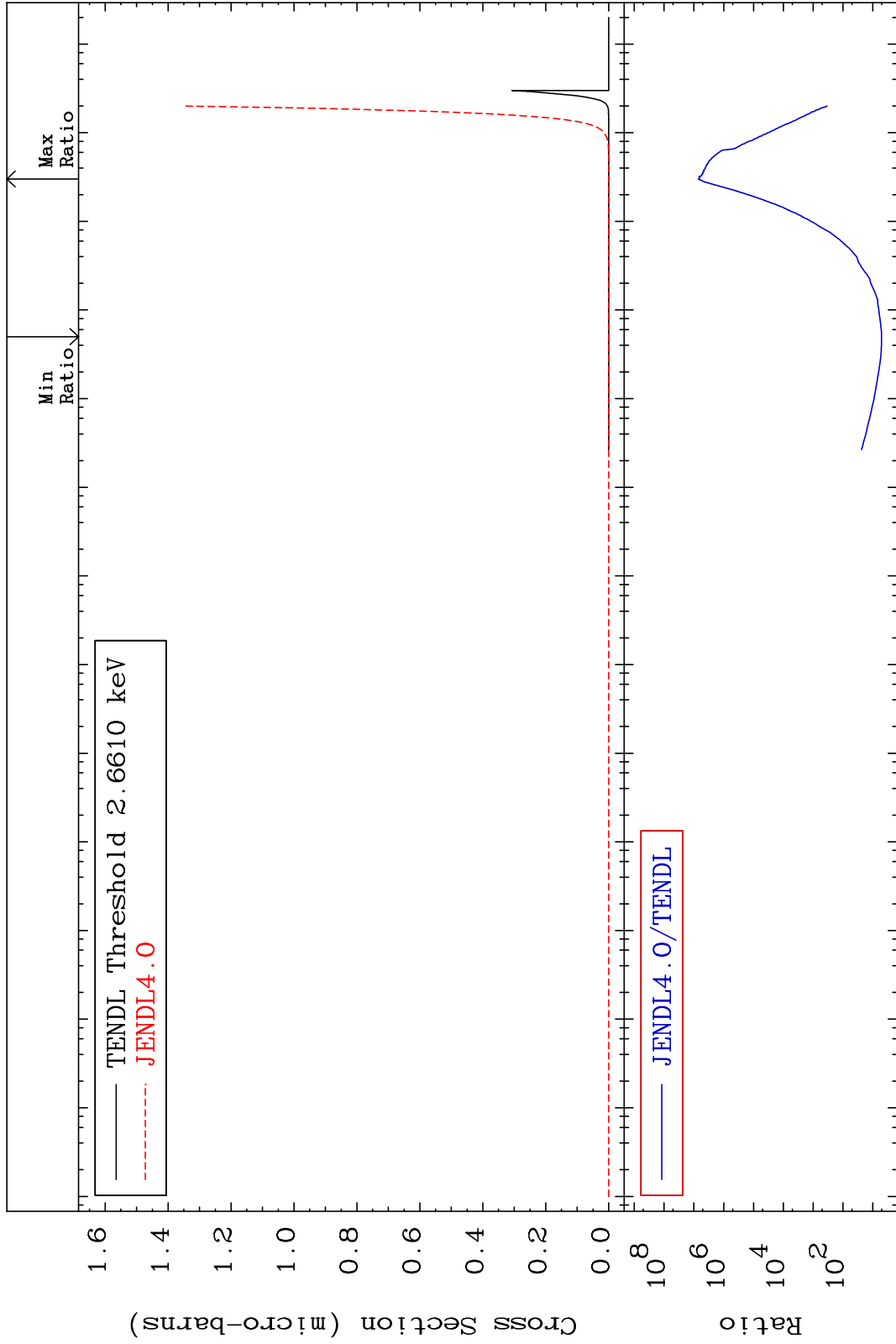
MAT 6425

(n,2α)

64-Gd-152

Cross Section

408.2 To 9999. %



50

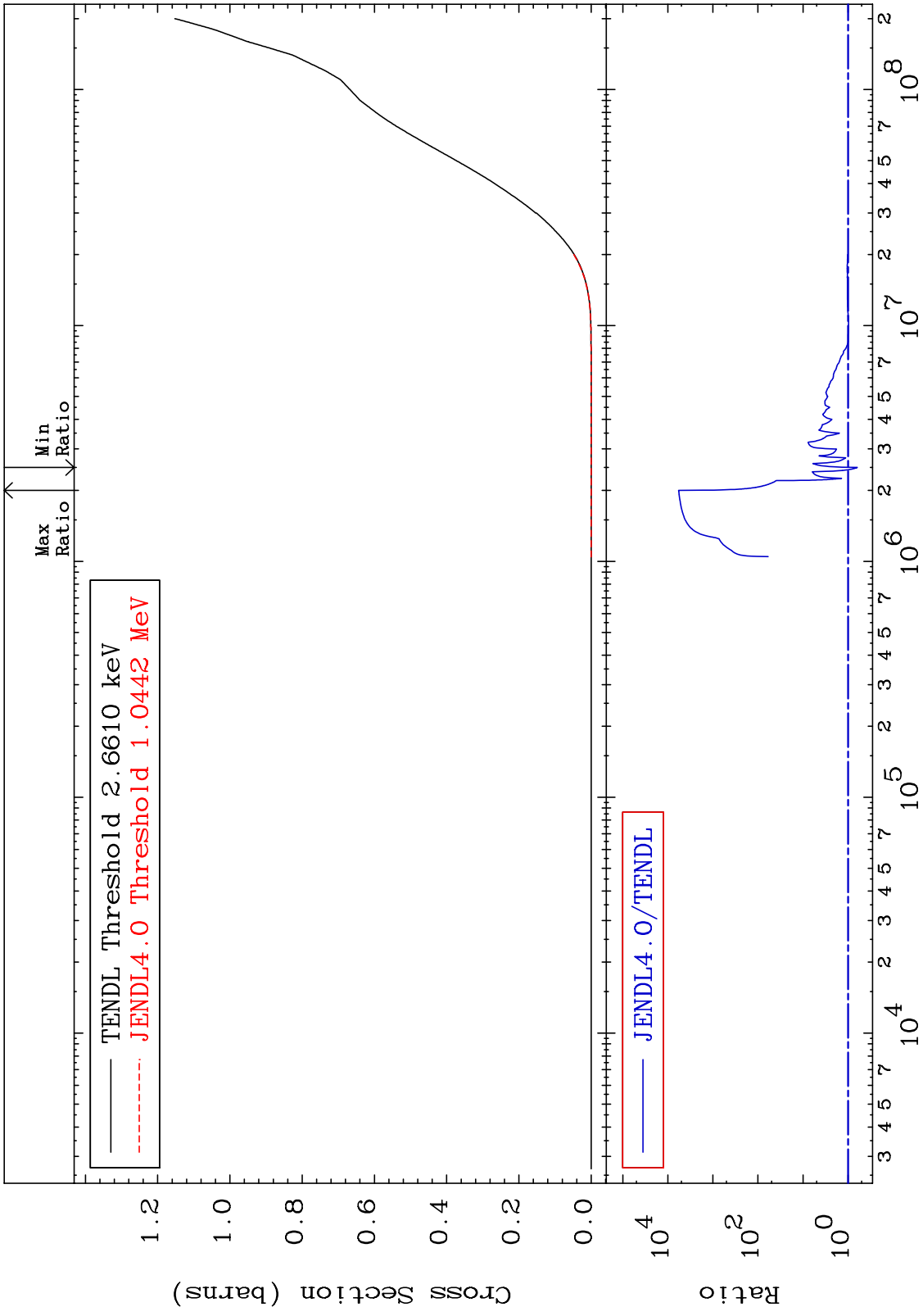
Incident Energy (eV)

64-Gd-152

MAT 6425

Hydrogen Production
Cross Section

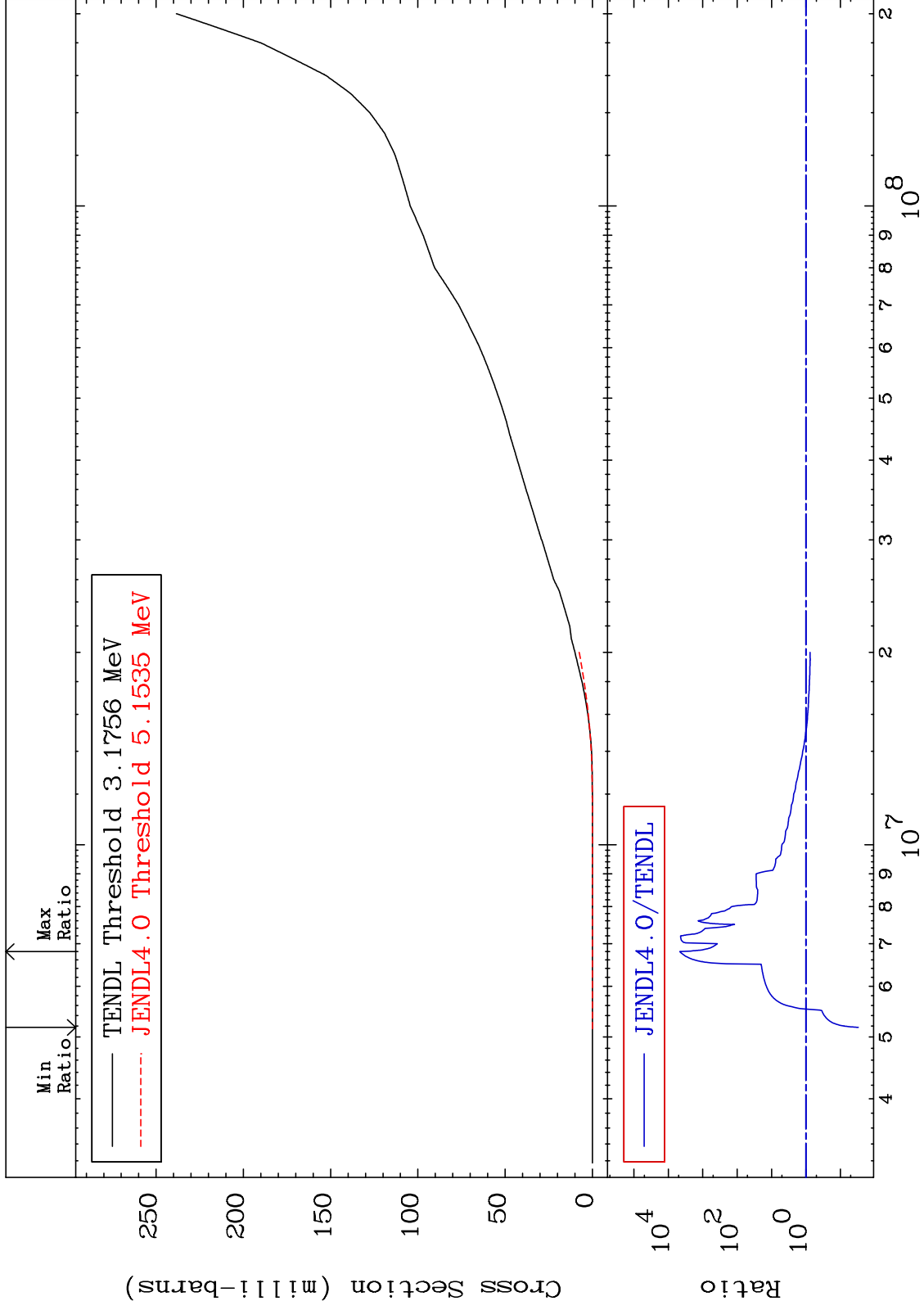
64-Gd-152
-37.56 To 9999. %



MAT 6425

Deuterium Production
Cross Section

64-Gd-152
-97.00 To 9999. %



52

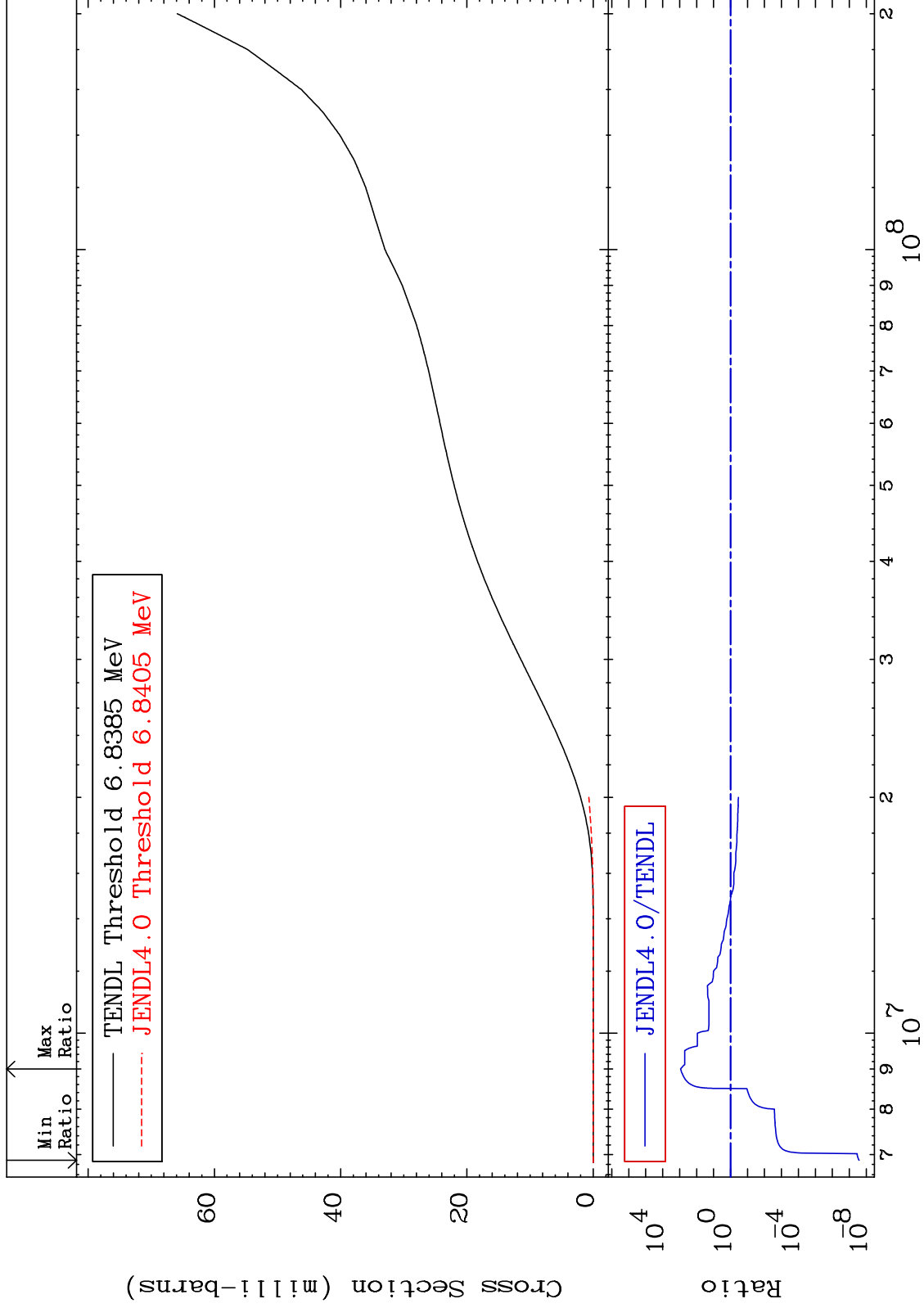
Incident Energy (eV)

64-Gd-152

MAT 6425

Tritium Production
Cross Section

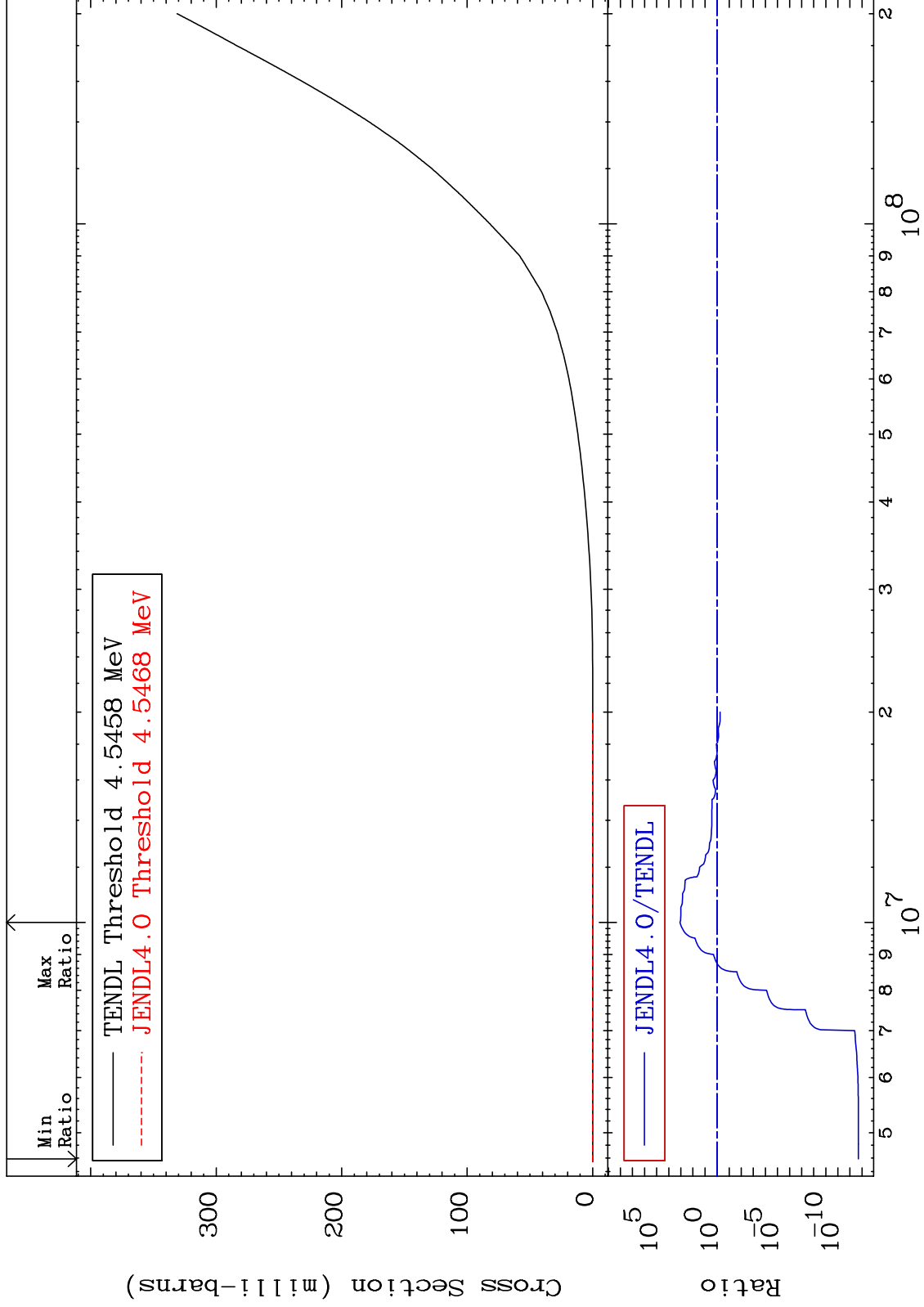
64-Gd-152
-100.0 To 9999. %



MAT 6425

He-3 Production
Cross Section

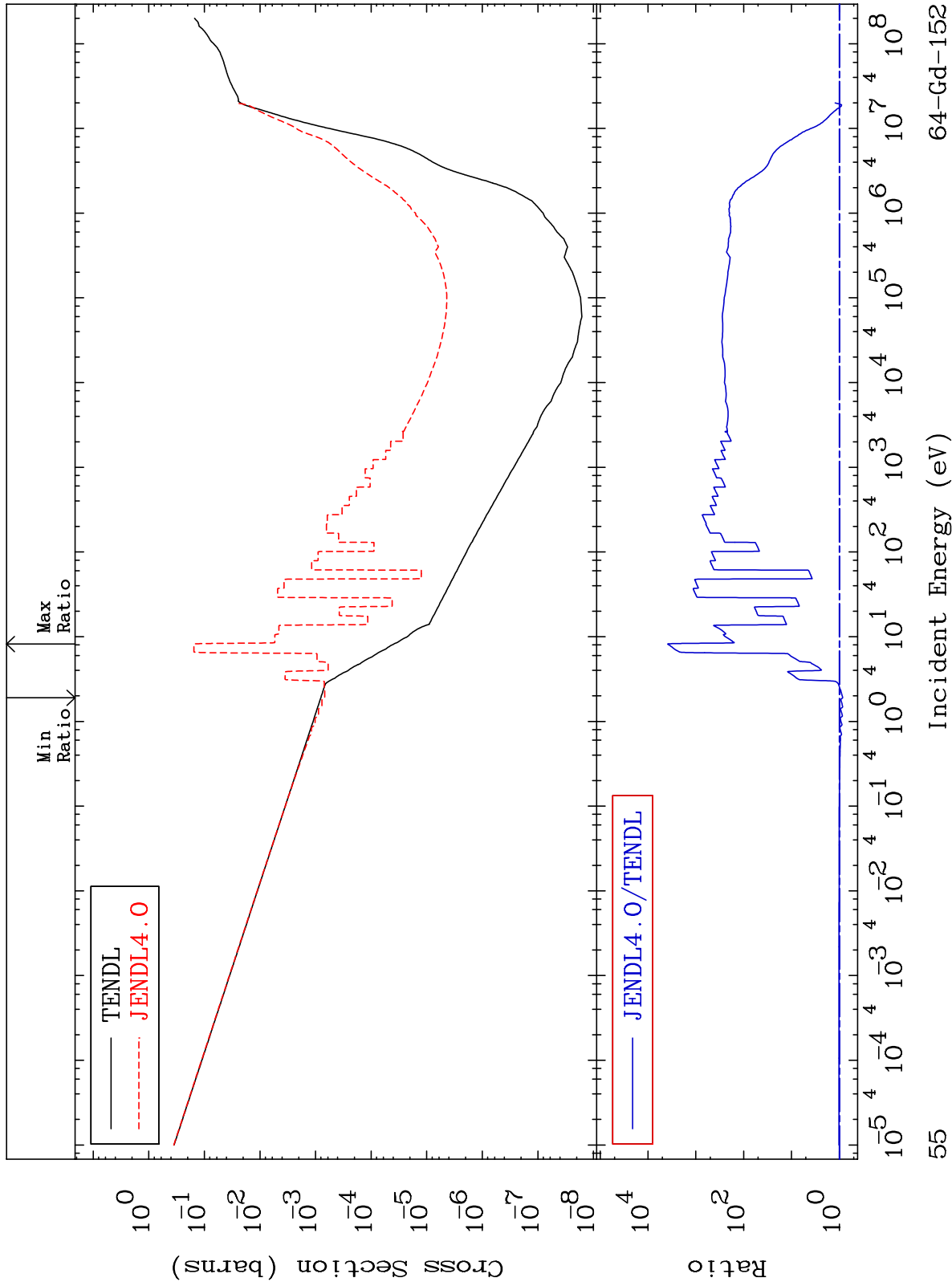
64-Gd-152
-100.0 To 9999. %



MAT 6425

He-4 Production
Cross Section

64-Gd-152
-14.93 To 9999. %



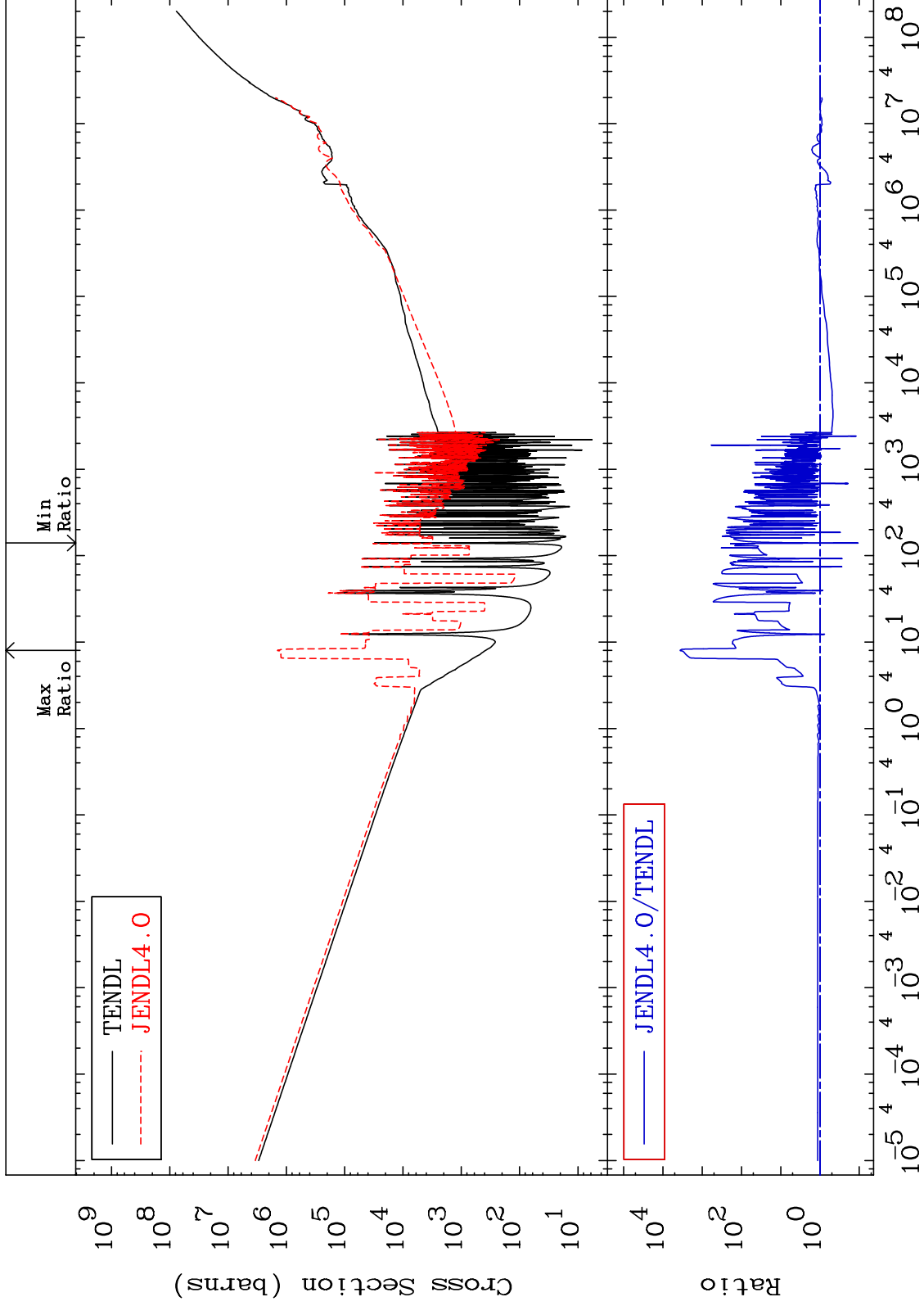
55

64-Gd-152

MAT 6425

Kerma total (eV-barns)
Cross Section

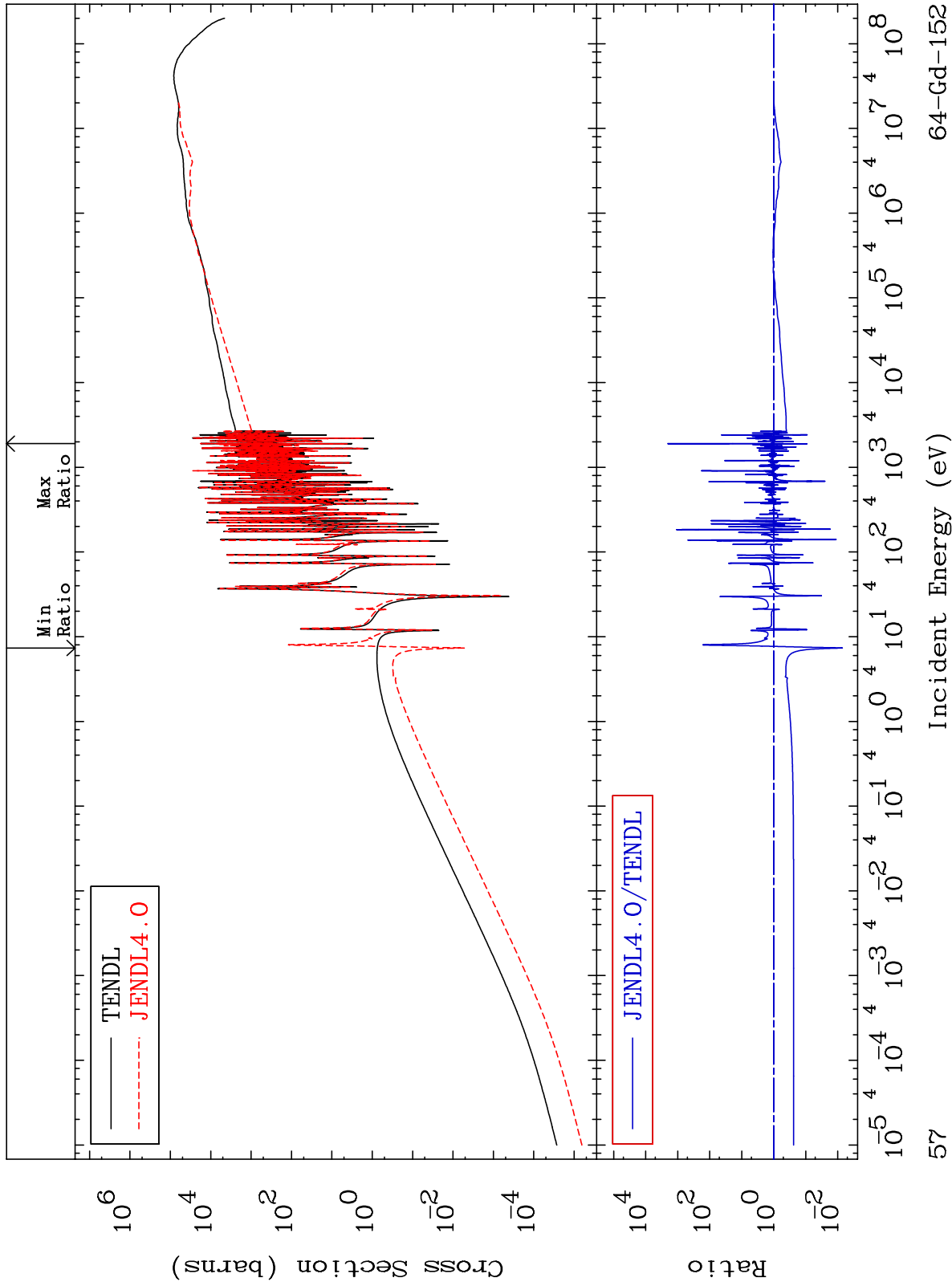
64-Gd-152
-89.45 To 9999. %



MAT 6425

Kerma elastic
Cross Section

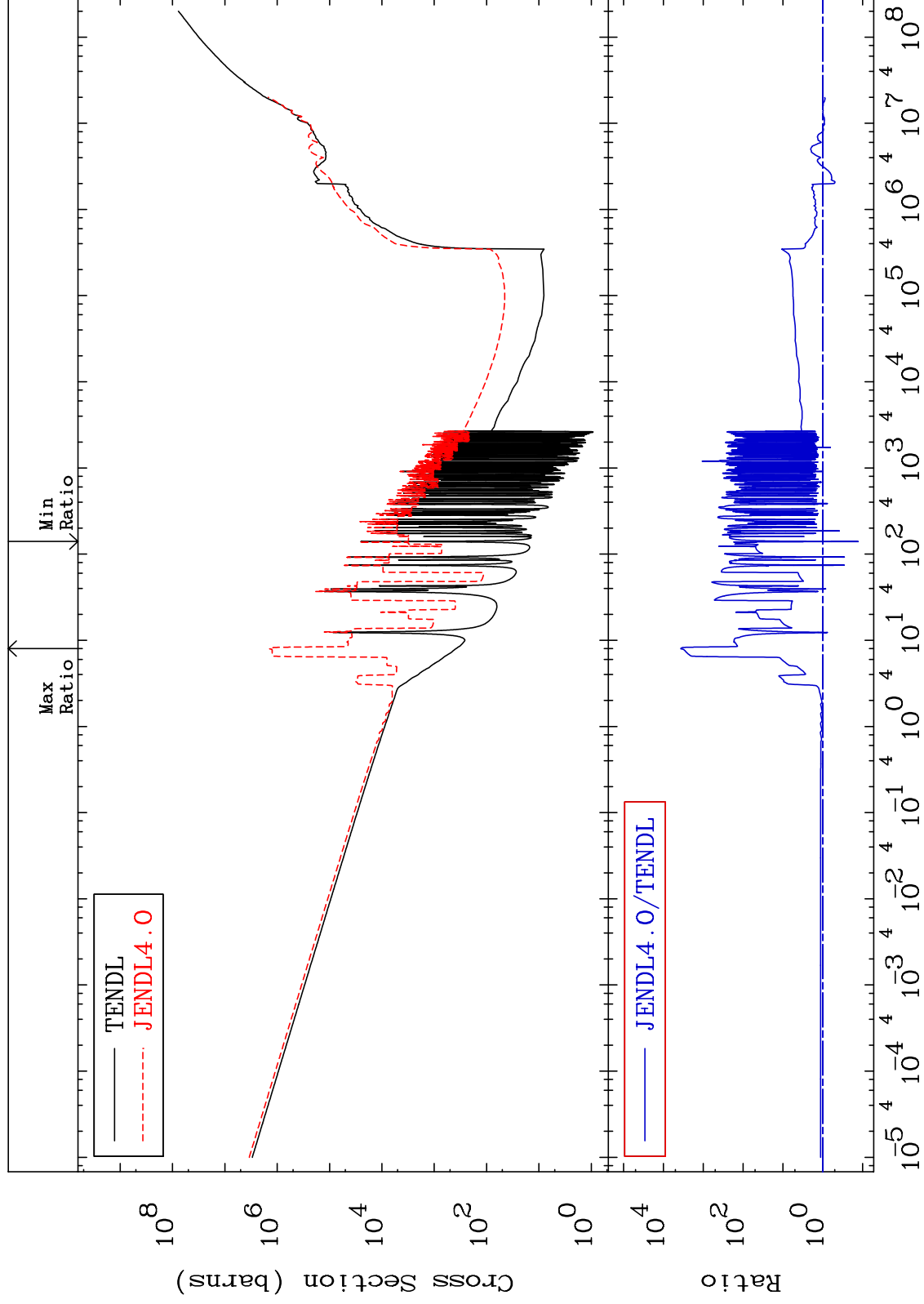
64-Gd-152
-99.30 To 9999. %



MAT 6425

Kerma non-elastic (all but mt2)
Cross Section

64-Gd-152
-87.29 To 9999. %



58

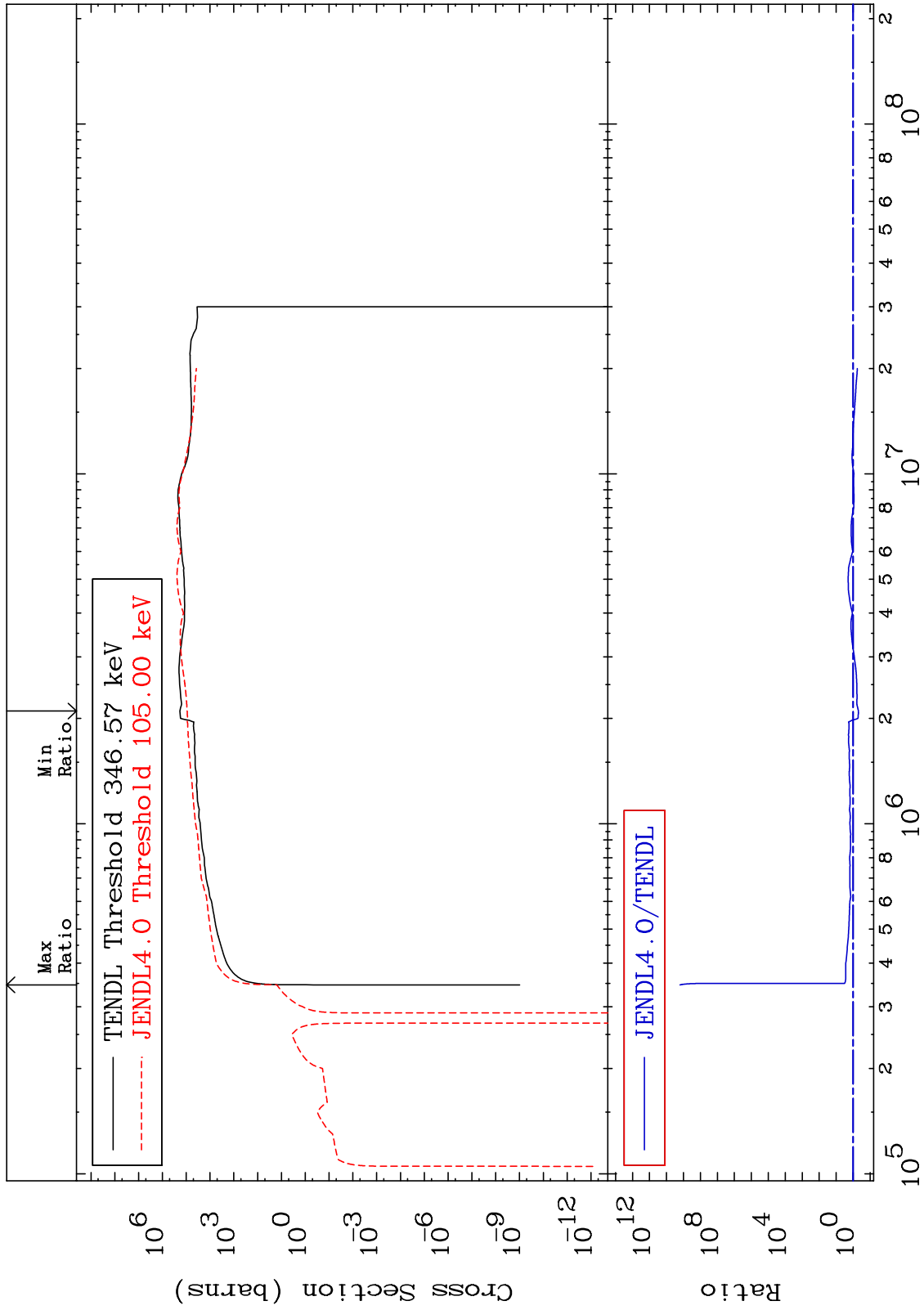
Incident Energy (eV)

64-Gd-152

MAT 6425

Kerma inelastic (mt51-91)
Cross Section

64-Gd-152
-51.13 To 9999. %



59

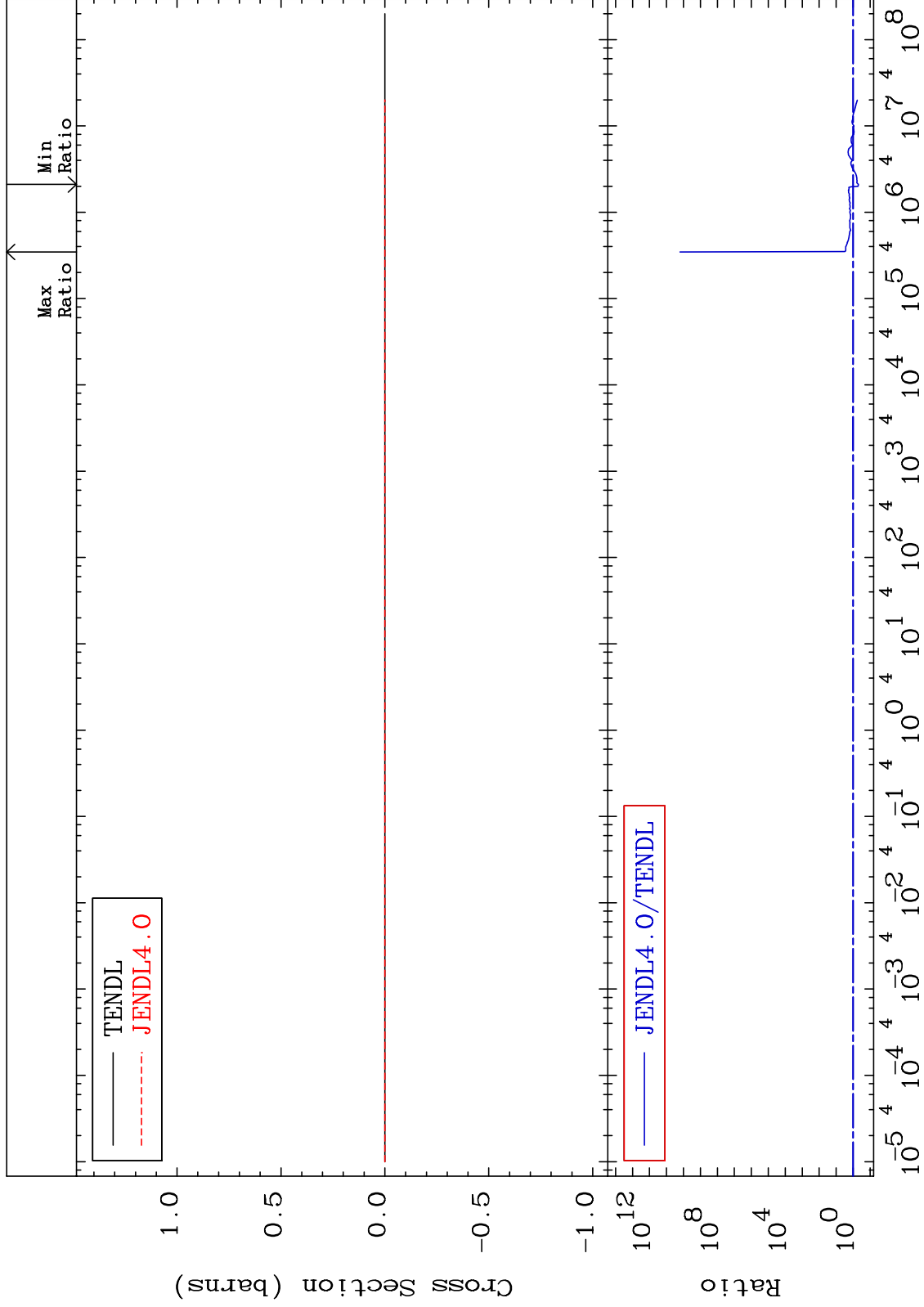
Incident Energy (eV)

64-Gd-152

MAT 6425

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

64-Gd-152
-51.13 To 9999. %



60

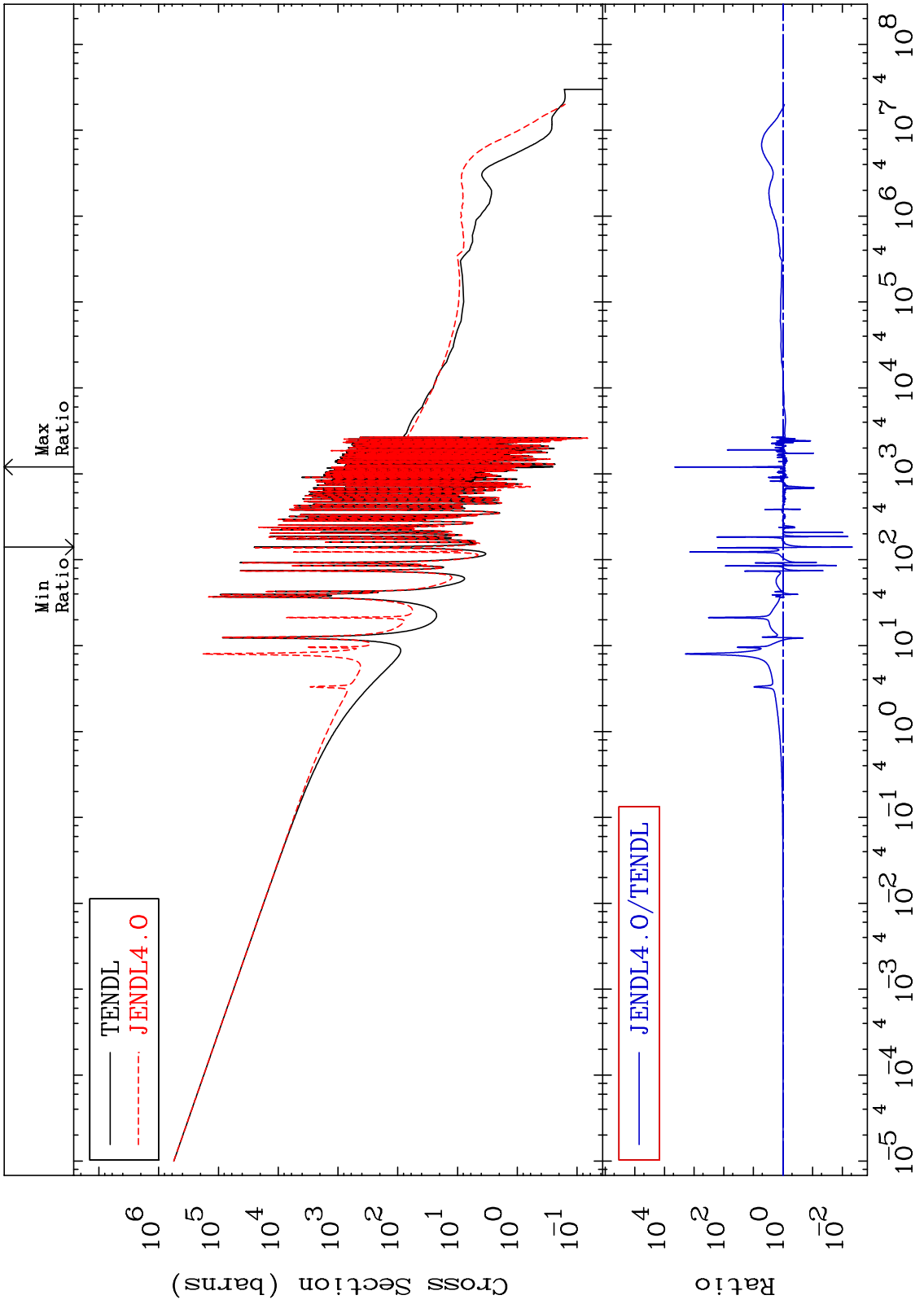
Incident Energy (eV)

64-Gd-152

MAT 6425

Kerma capture (mt102)
Cross Section

64-Gd-152
-99.54 To 9999. %



61

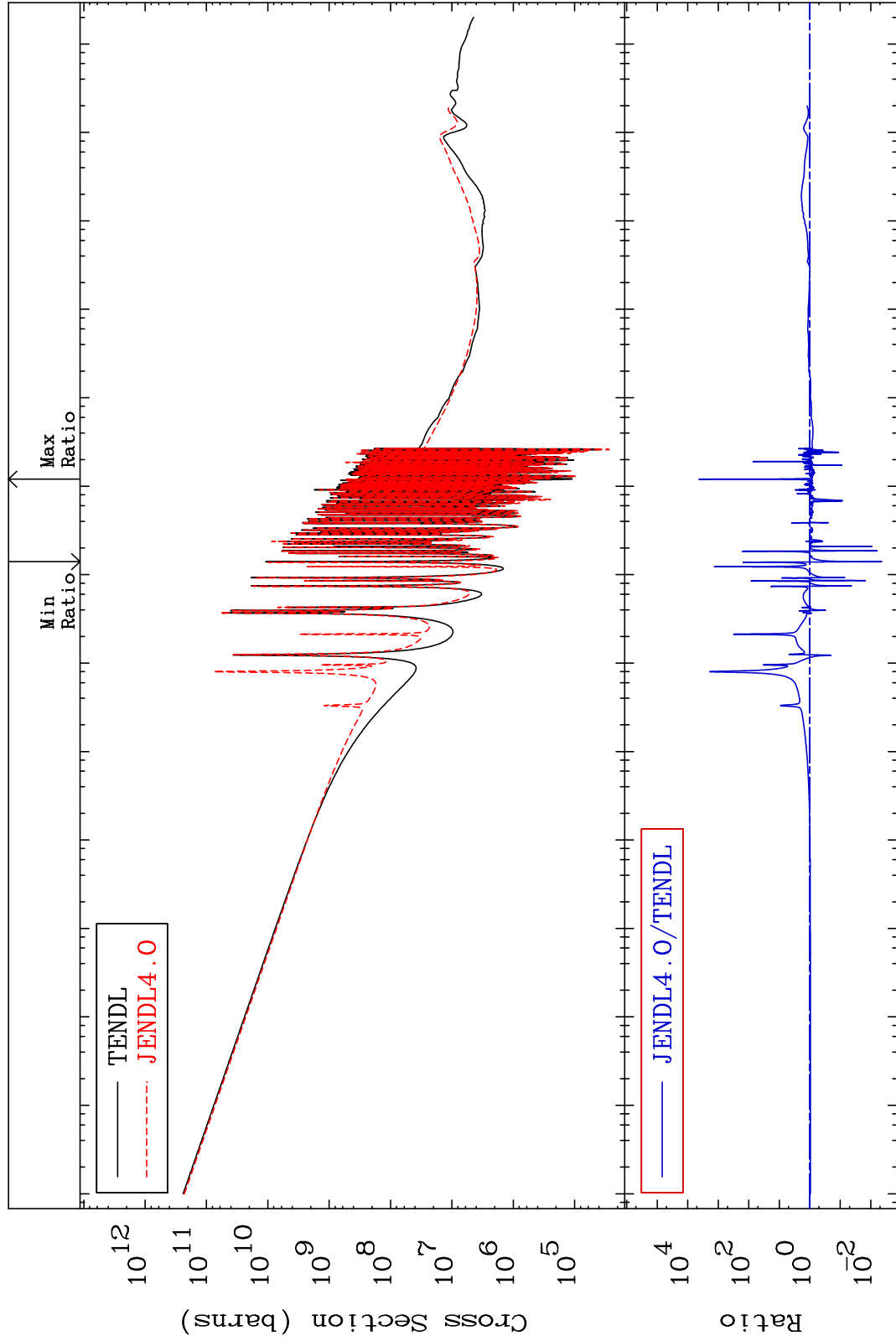
Incident Energy (eV)

64-Gd-152

MAT 6425

Total photon (eV-barns)
Cross Section

64-Gd-152
-99.56 To 9999. %



62

Incident Energy (eV)

64-Gd-152

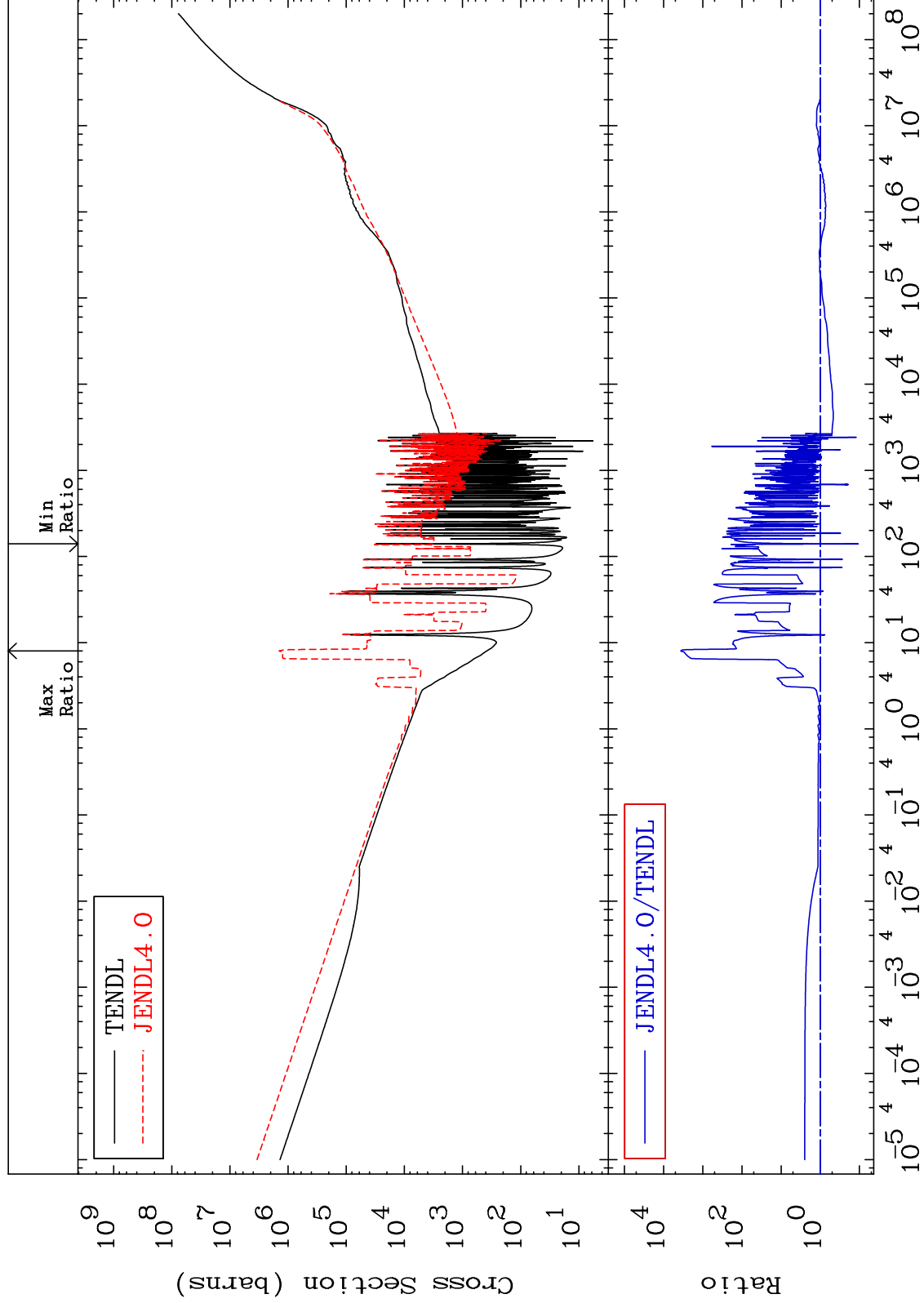
MAT 6425

Total kinematic kerma (high limit)

64-Gd-152

-89.45 To 9999. %

Cross Section



63

Incident Energy (eV)

64-Gd-152

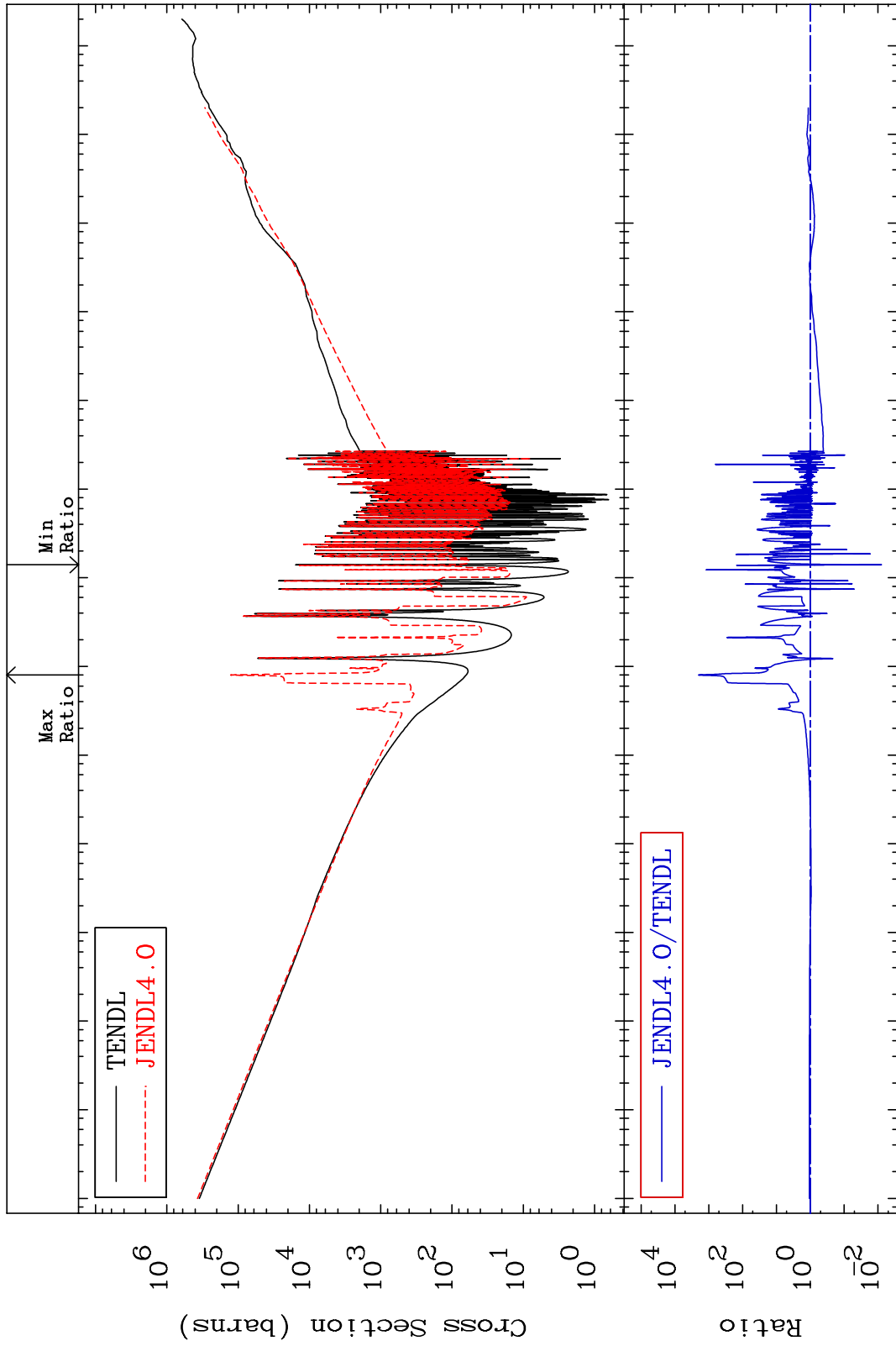
MAT 6425

Dpa total (eV-barns)

64-Gd-152

-99.22 To 9999. %

Cross Section



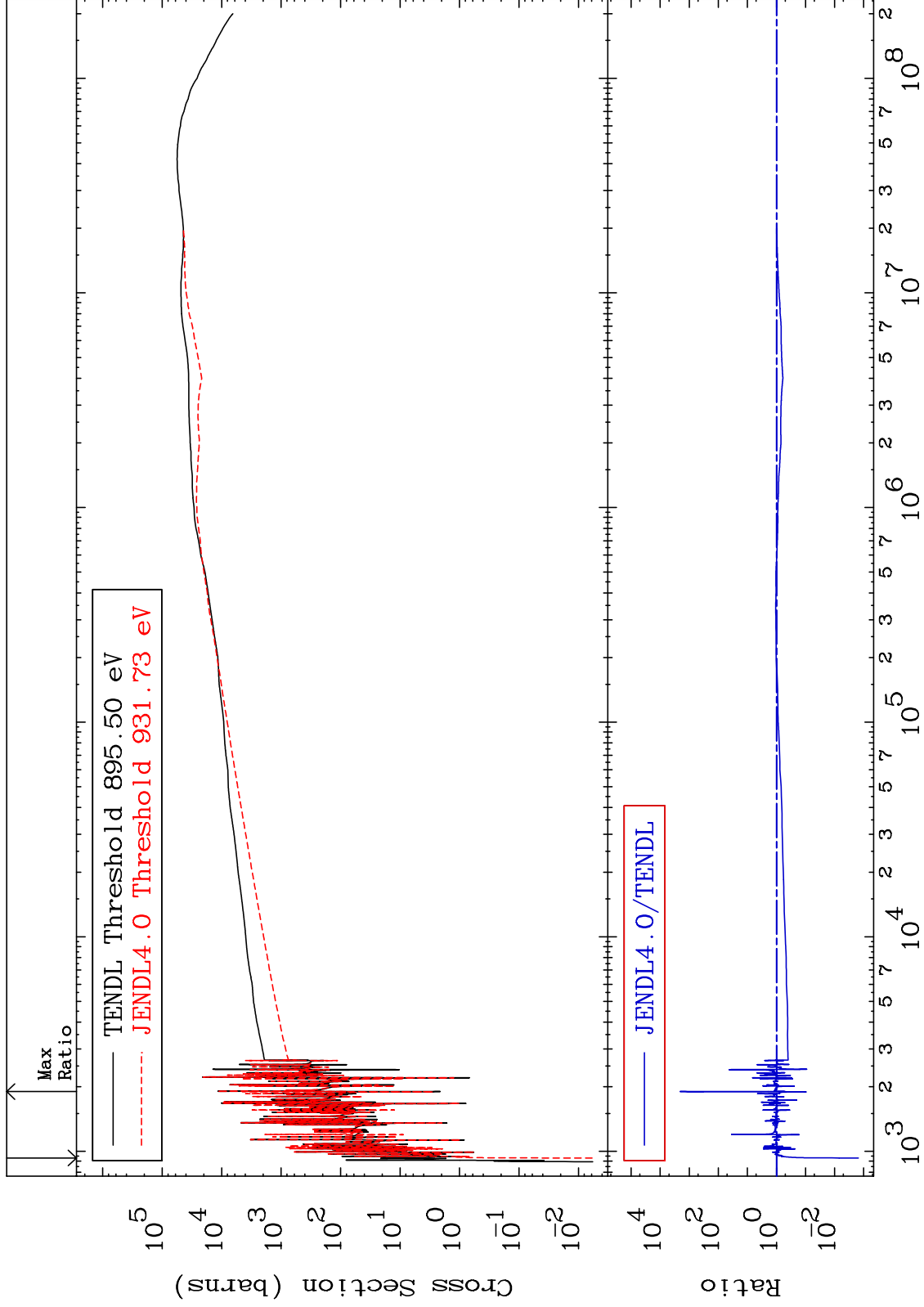
Incident Energy (eV)

64-Gd-152

MAT 6425

Dpa elastic (mt2)
Cross Section

64-Gd-152
-99.85 To 9999. %



65

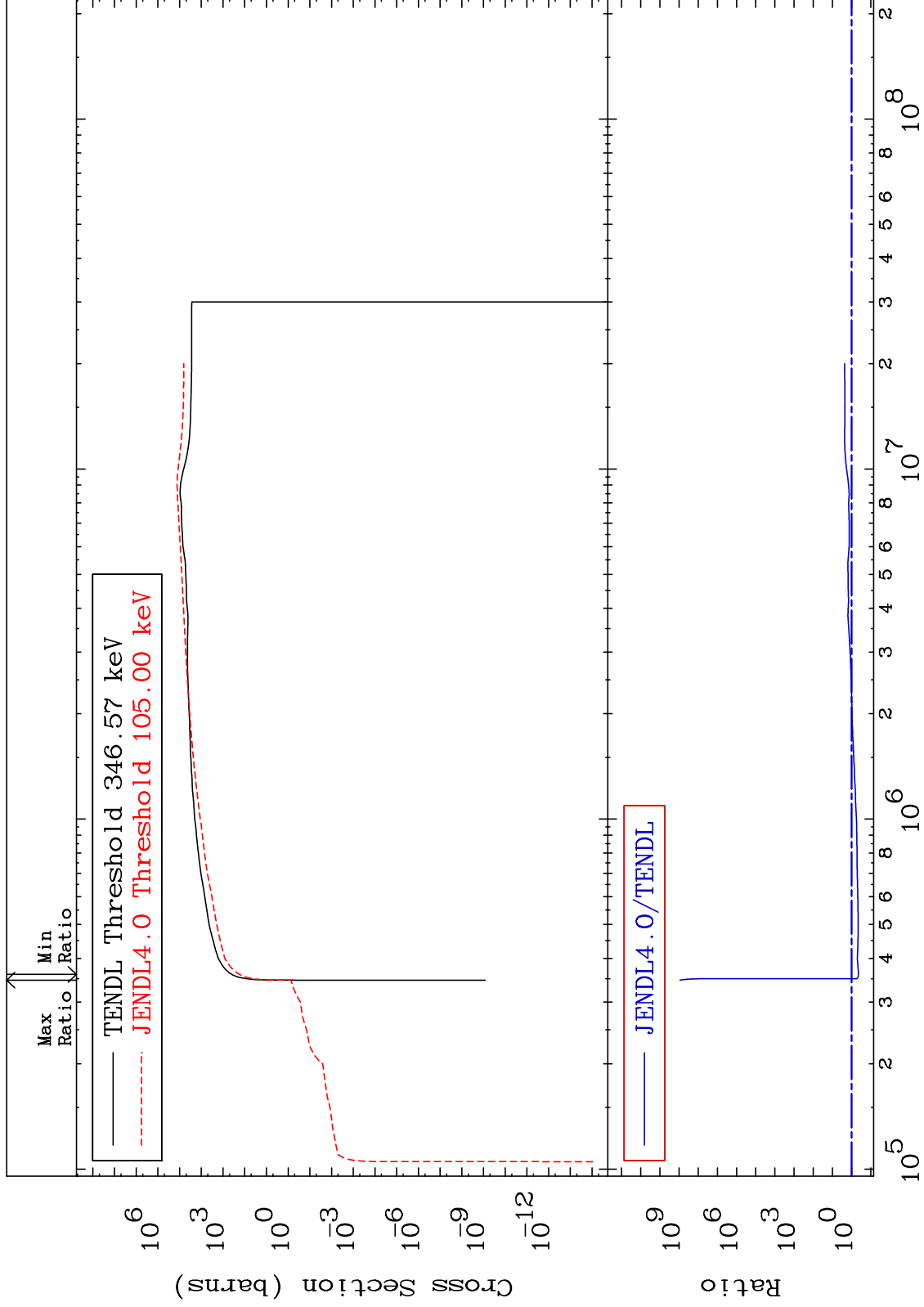
64-Gd-152

64-Gd-152

MAT 6425

Dpa inelastic (mt51-91)
Cross Section

64-Gd-152
-56.13 To 9999. %



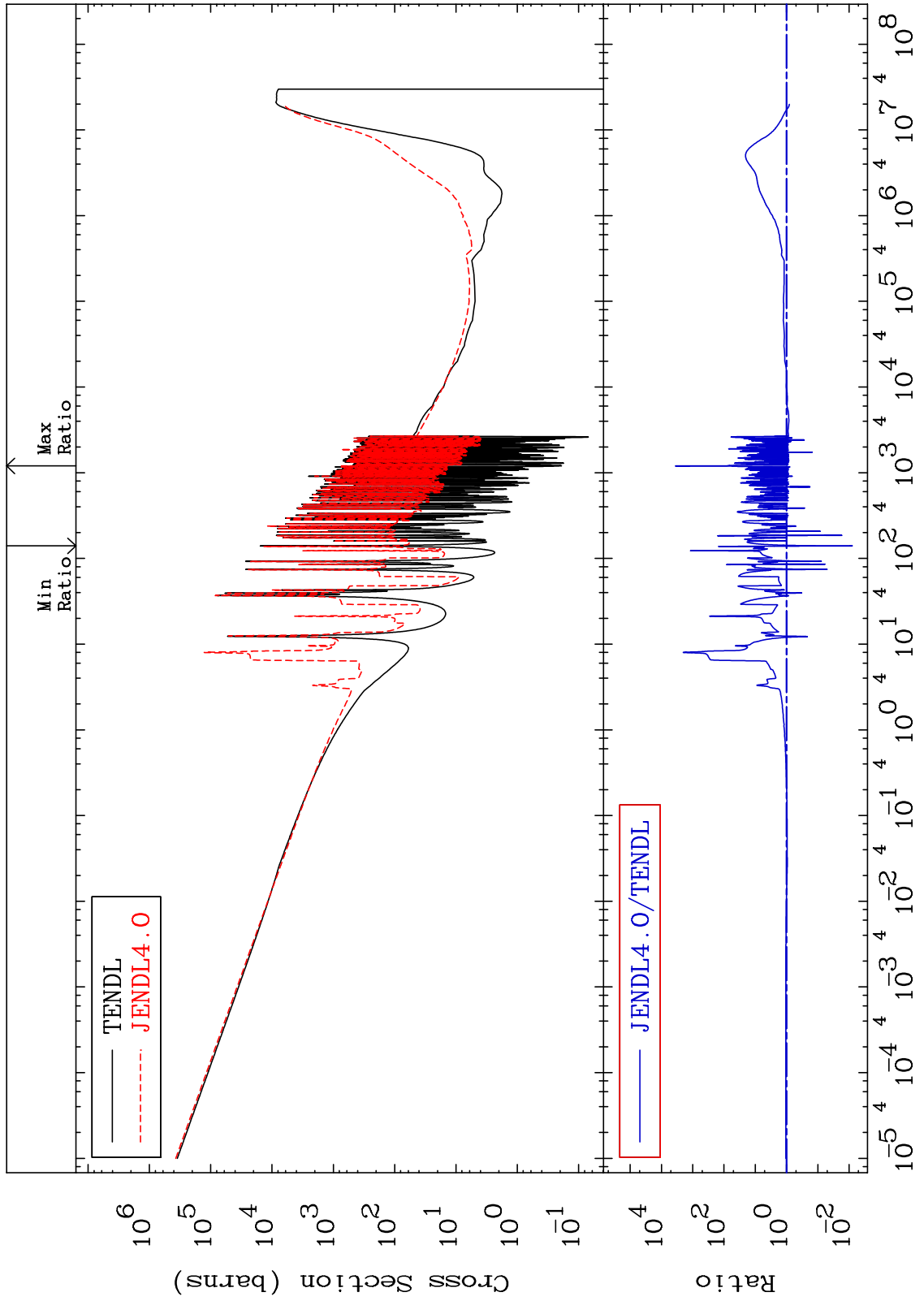
66

64-Gd-152

MAT 6425

Dpa disappearance (mt102 -120)
Cross Section

64-Gd-152
-99.22 To 9999. %



67

Incident Energy (eV)

64-Gd-152