

Program Complot
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

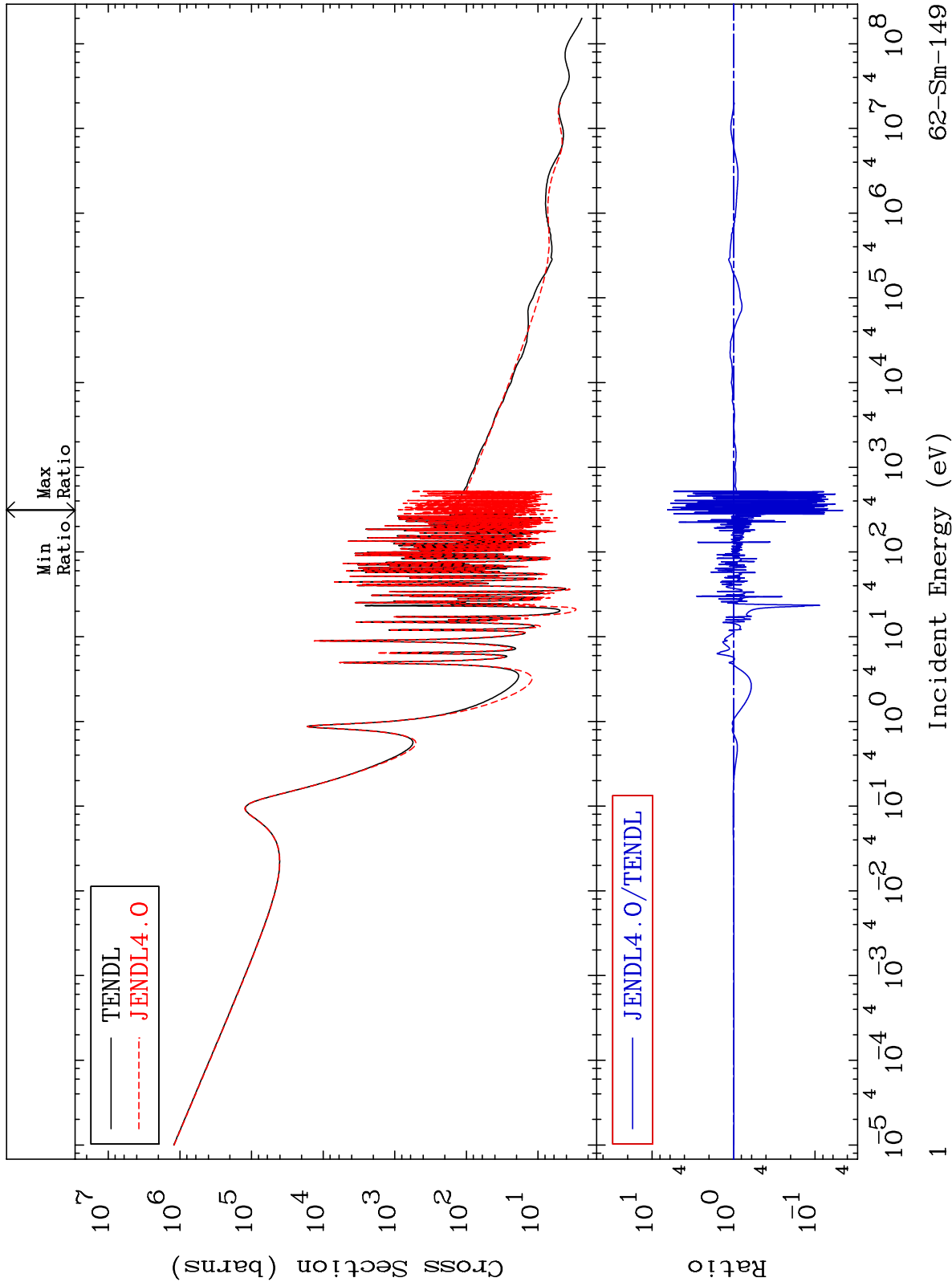
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Press Mouse Button to Start

MAT 6240 Total Cross Section 62-Sm-149 -95.42 To 545.9 %



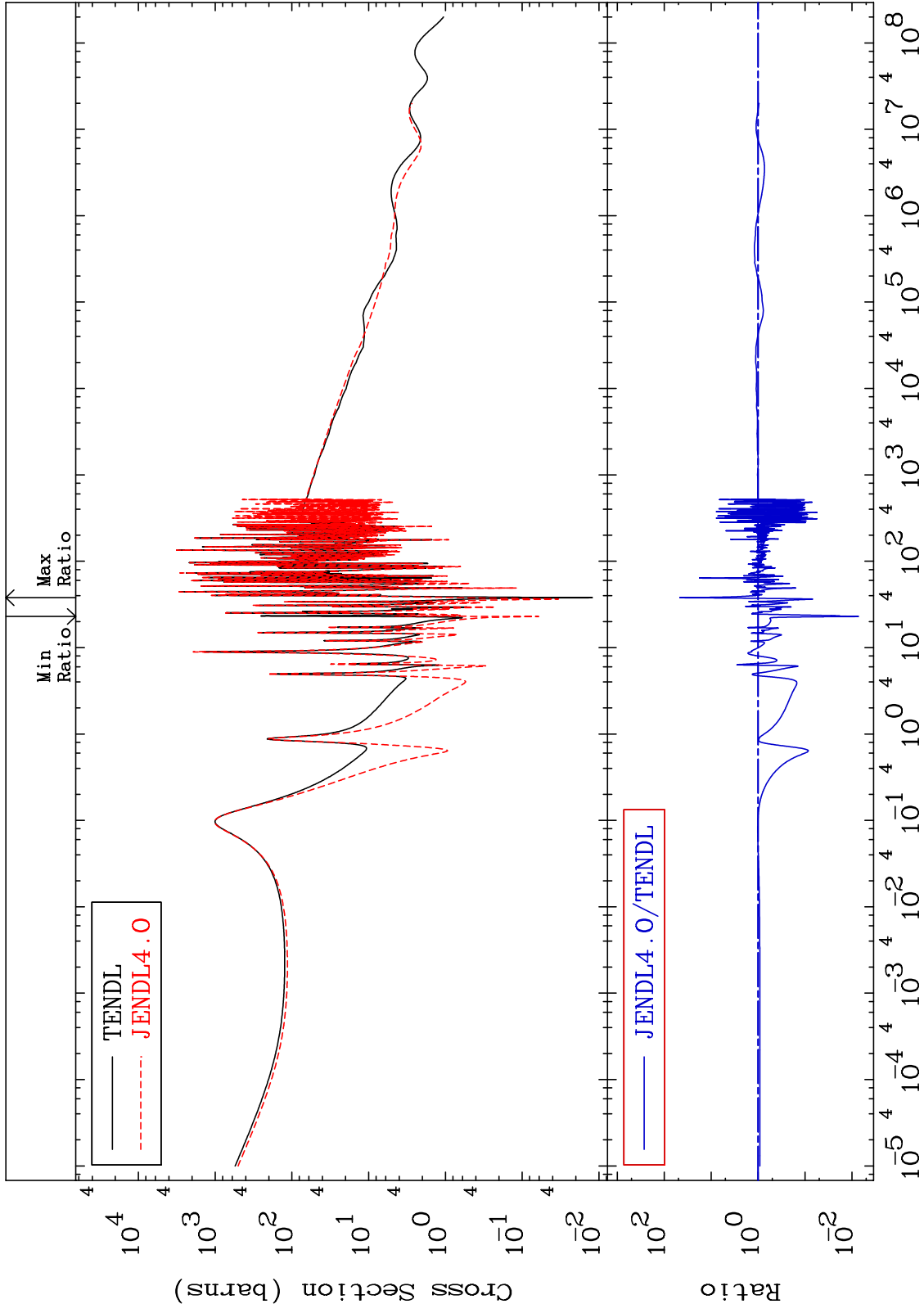
62-Sm-149

MAT 6240

Elastic
Cross Section

62-Sm-149

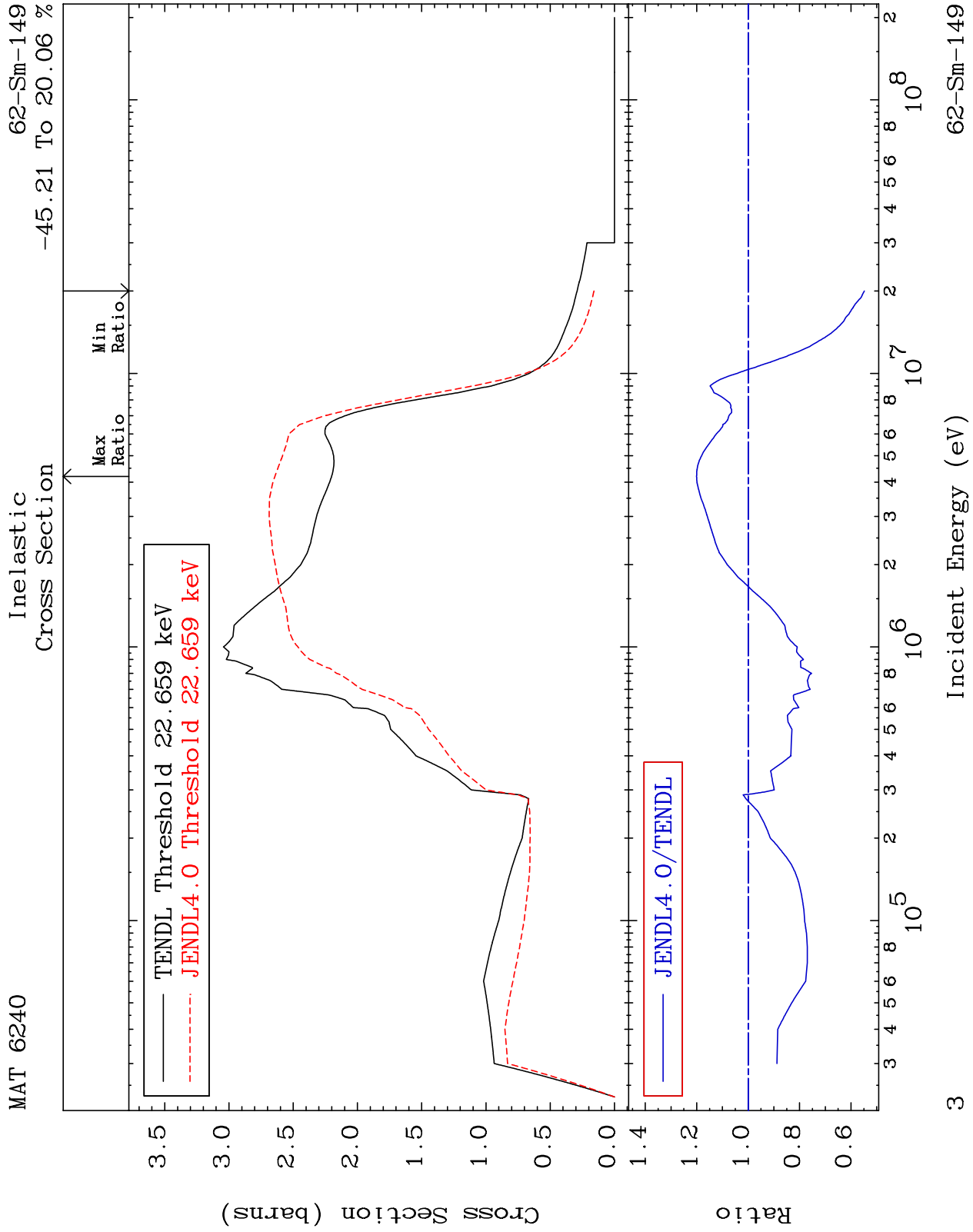
-99.27 To 4576. %



Incident Energy (eV)

62-Sm-149

2



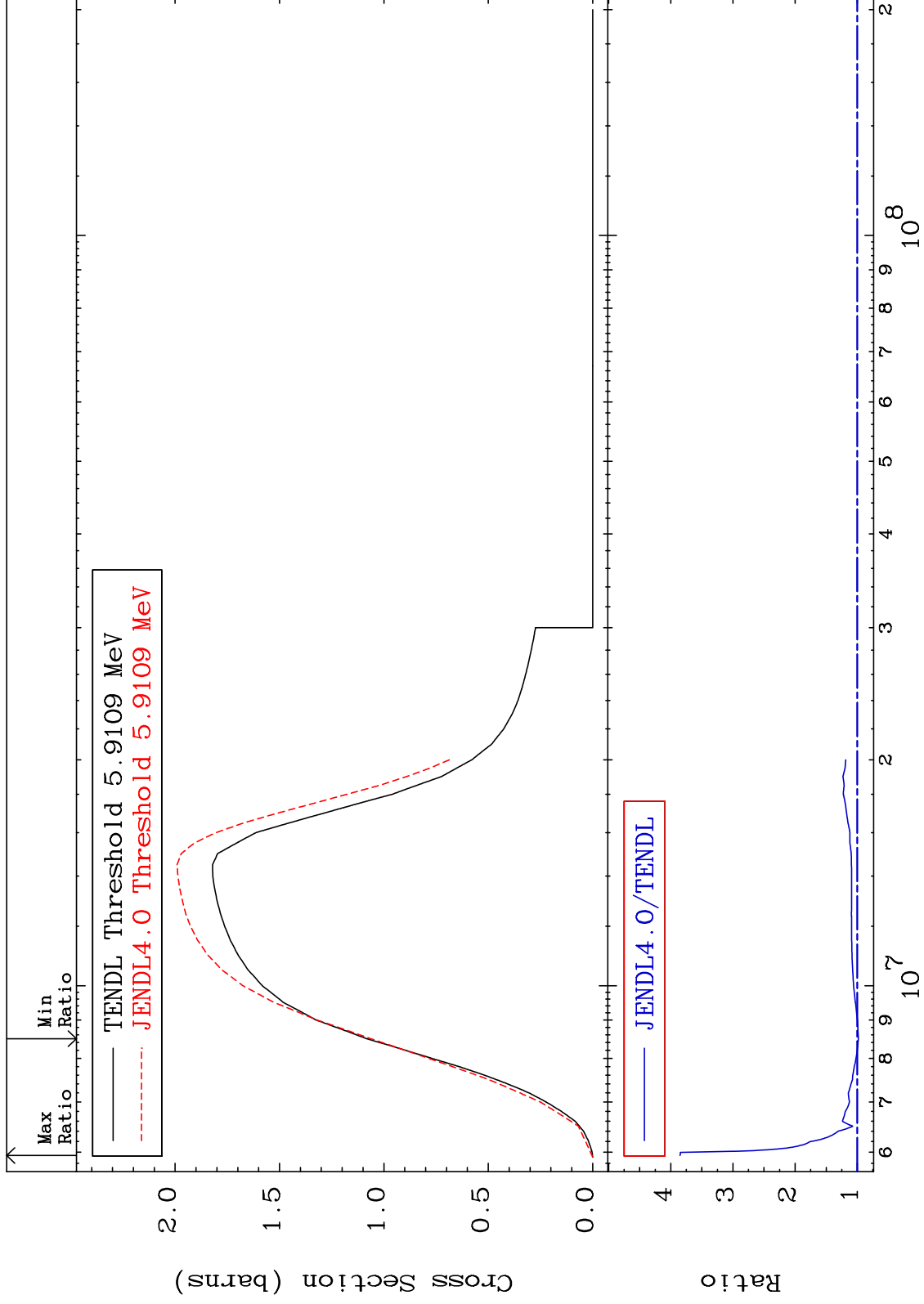
MAT 6240

(n,2n)

62-Sm-149

Cross Section

-1.796 To 285.1 %



4

Incident Energy (eV)

62-Sm-149

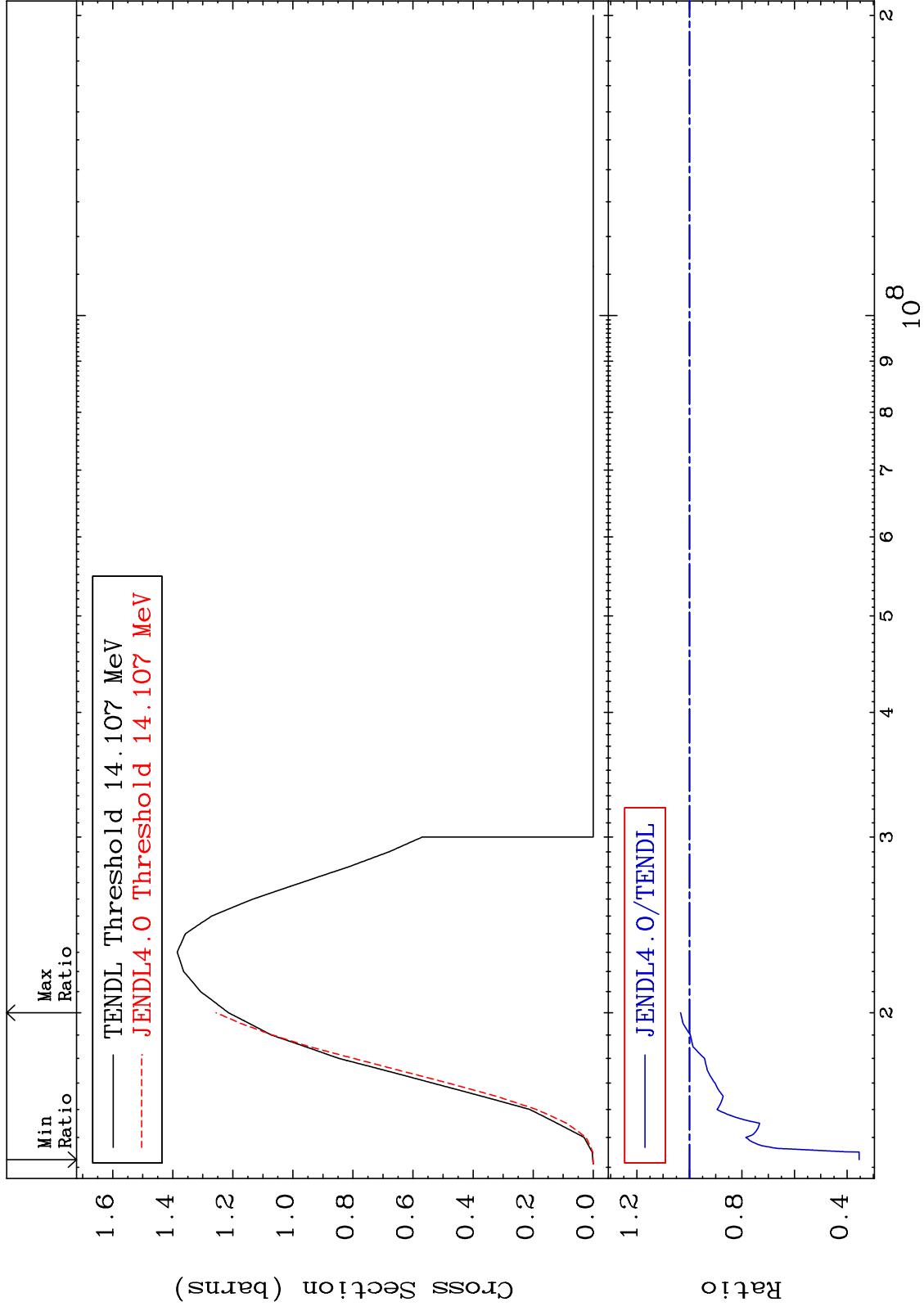
MAT 6240

(n, 3n)

62-Sm-149

Cross Section

-64.61 To 3.361 %



MAT 6240

(n, n') α

62-Sm-149

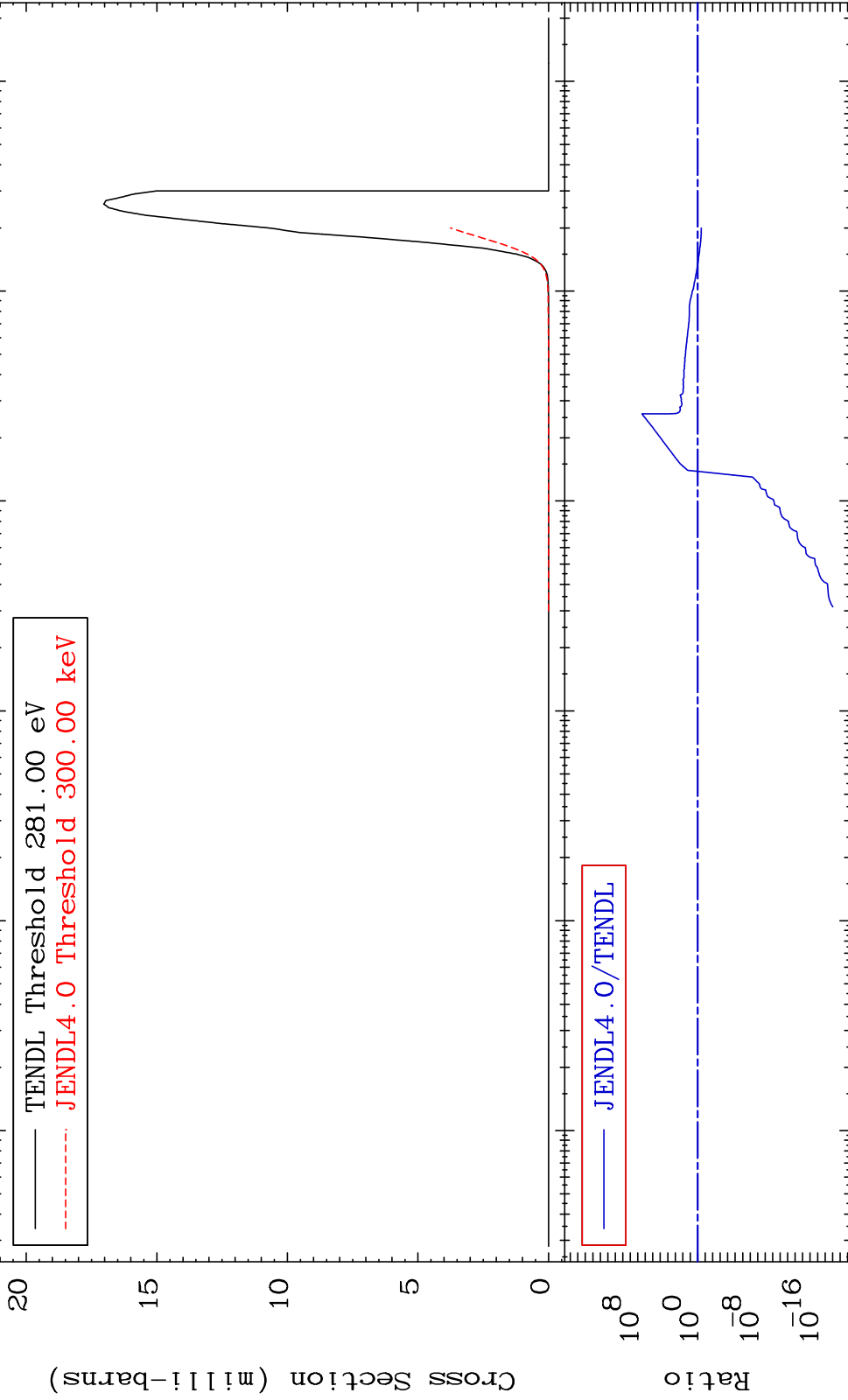
Cross Section

Cross Section

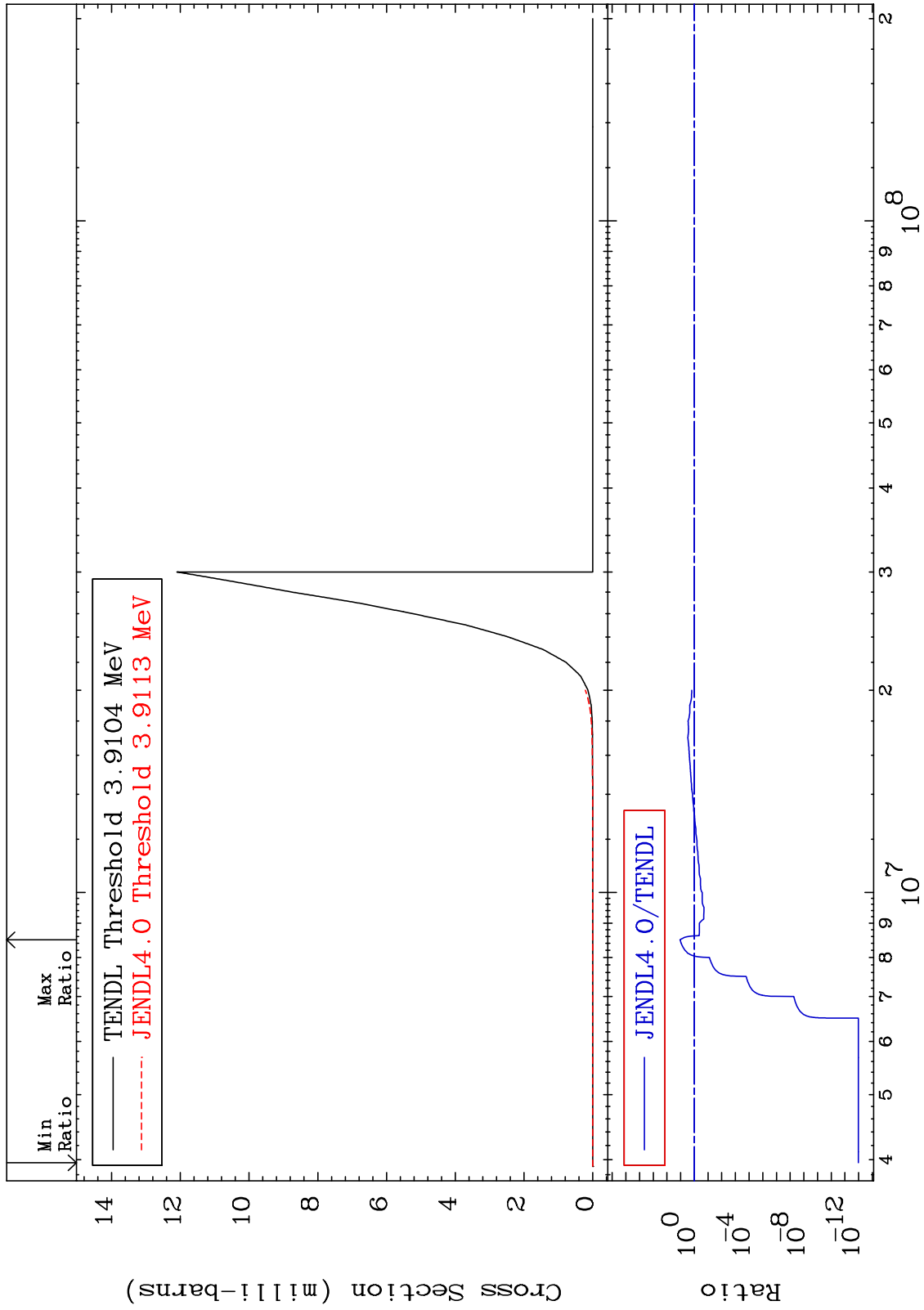
Min Ratio

Max Ratio

-100.0 To 9999. %



MAT 6240 (n,2n) α 62-Sm-149
 Cross Section -100.0 To 1008. %

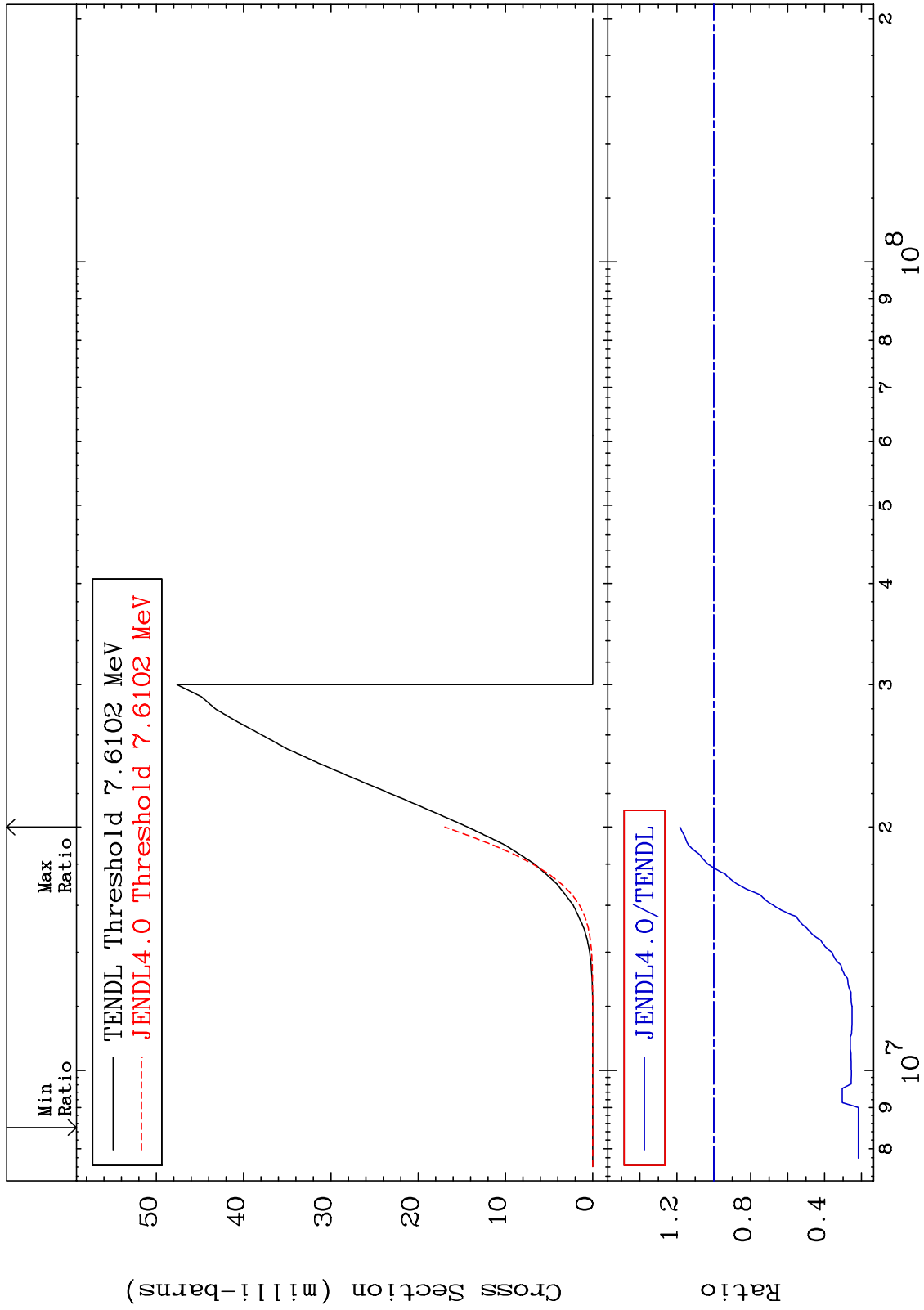


Incident Energy (eV) 62-Sm-149

MAT 6240

(n,n') p
Cross Section

62-Sm-149
-78.32 To 18.27 %



8

Incident Energy (eV)

62-Sm-149

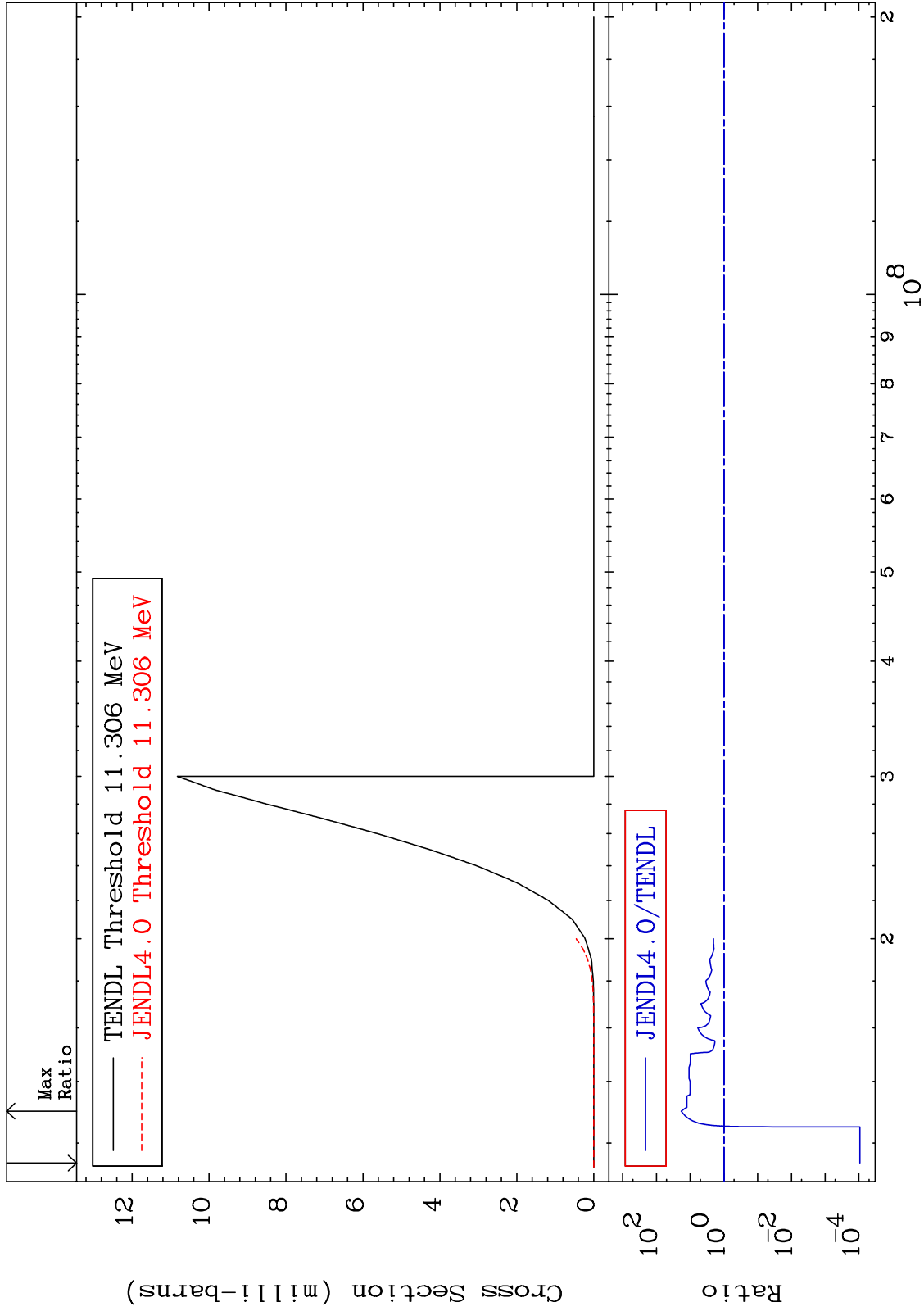
MAT 6240

(n,n') d

62-Sm-149

Cross Section

-99.99 To 1737. %



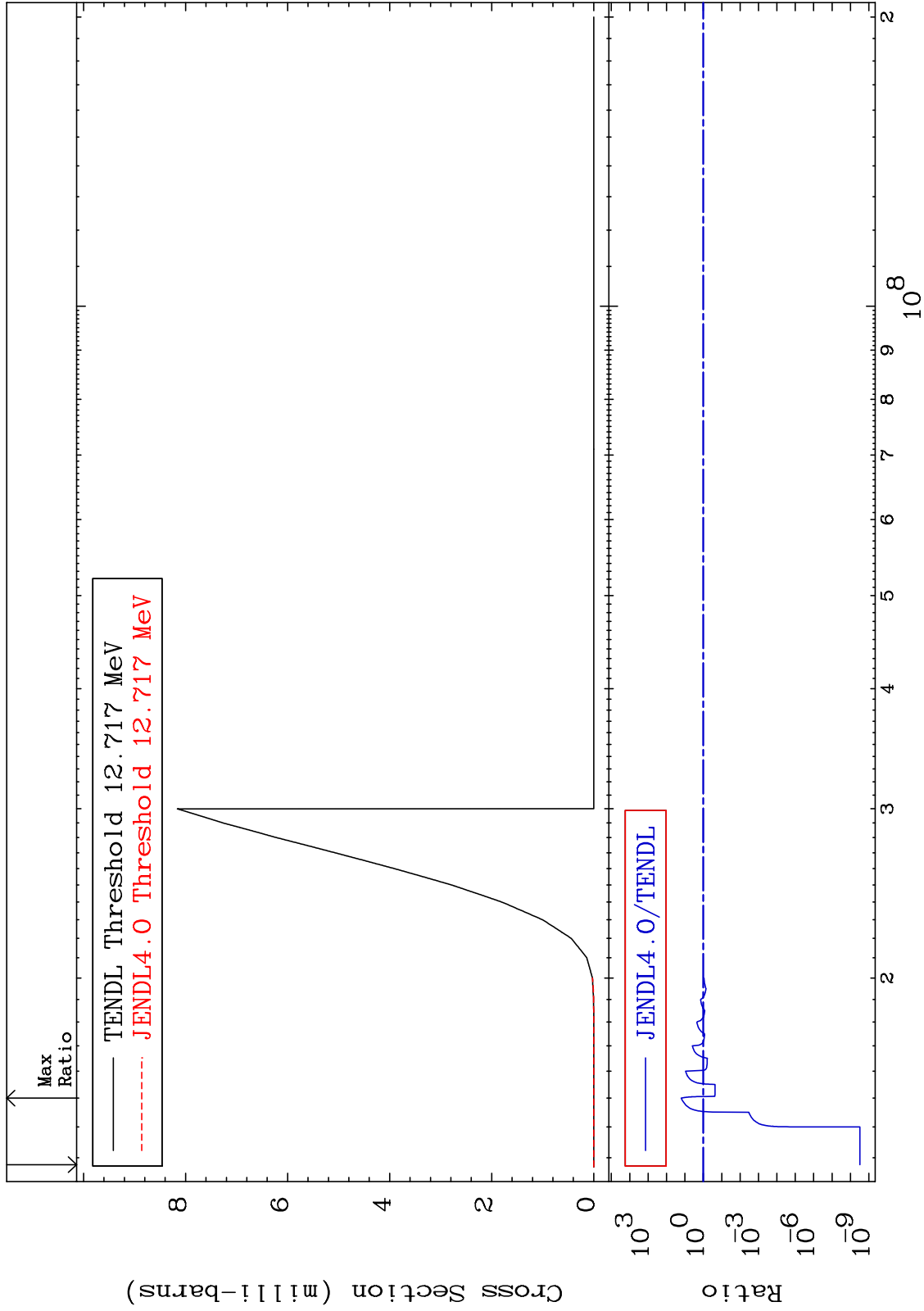
MAT 6240

(n,n') t

62-Sm-149

Cross Section

-100.0 To 1487. %



10

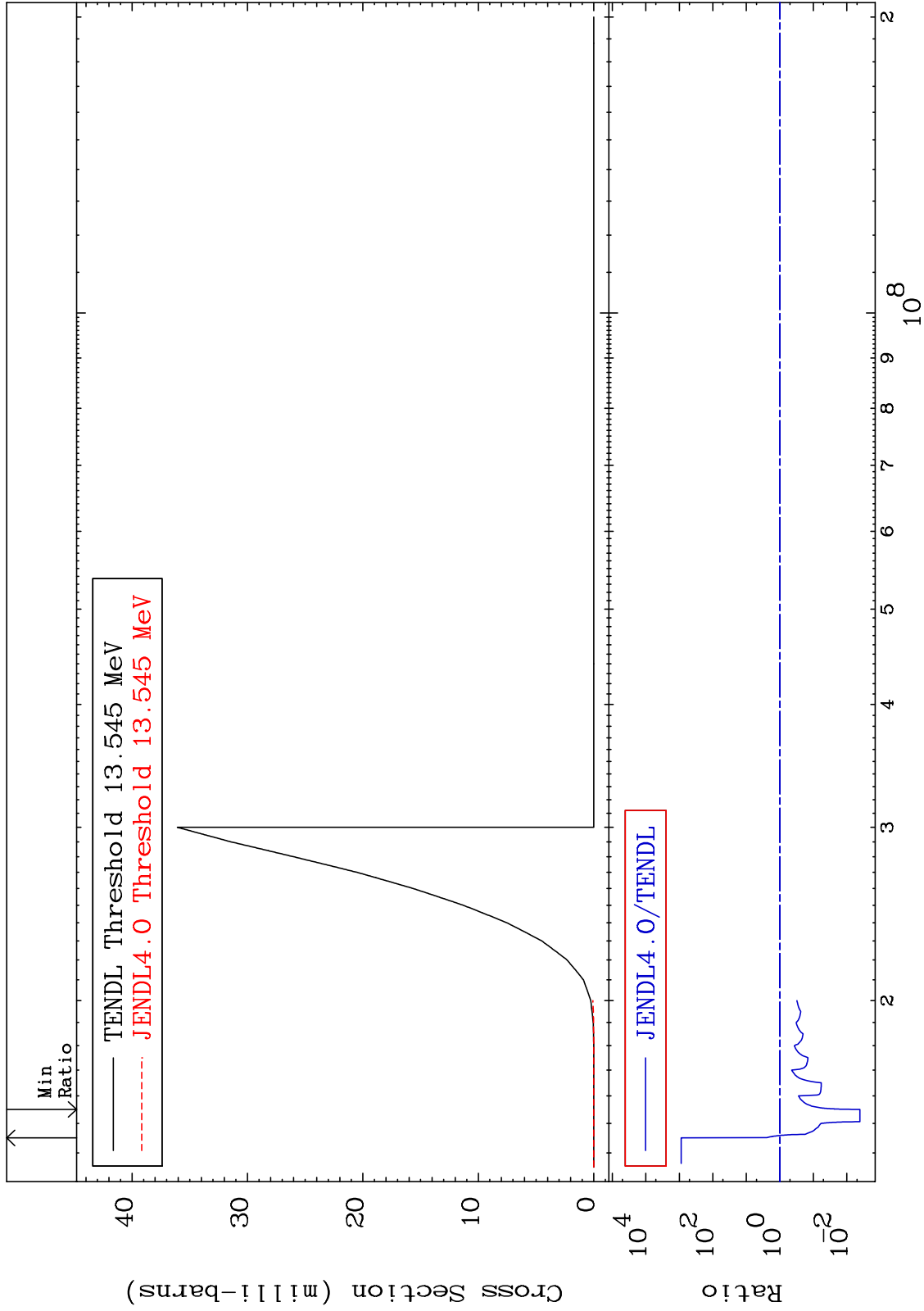
Incident Energy (eV)

62-Sm-149

MAT 6240

(n,2n) p
Cross Section

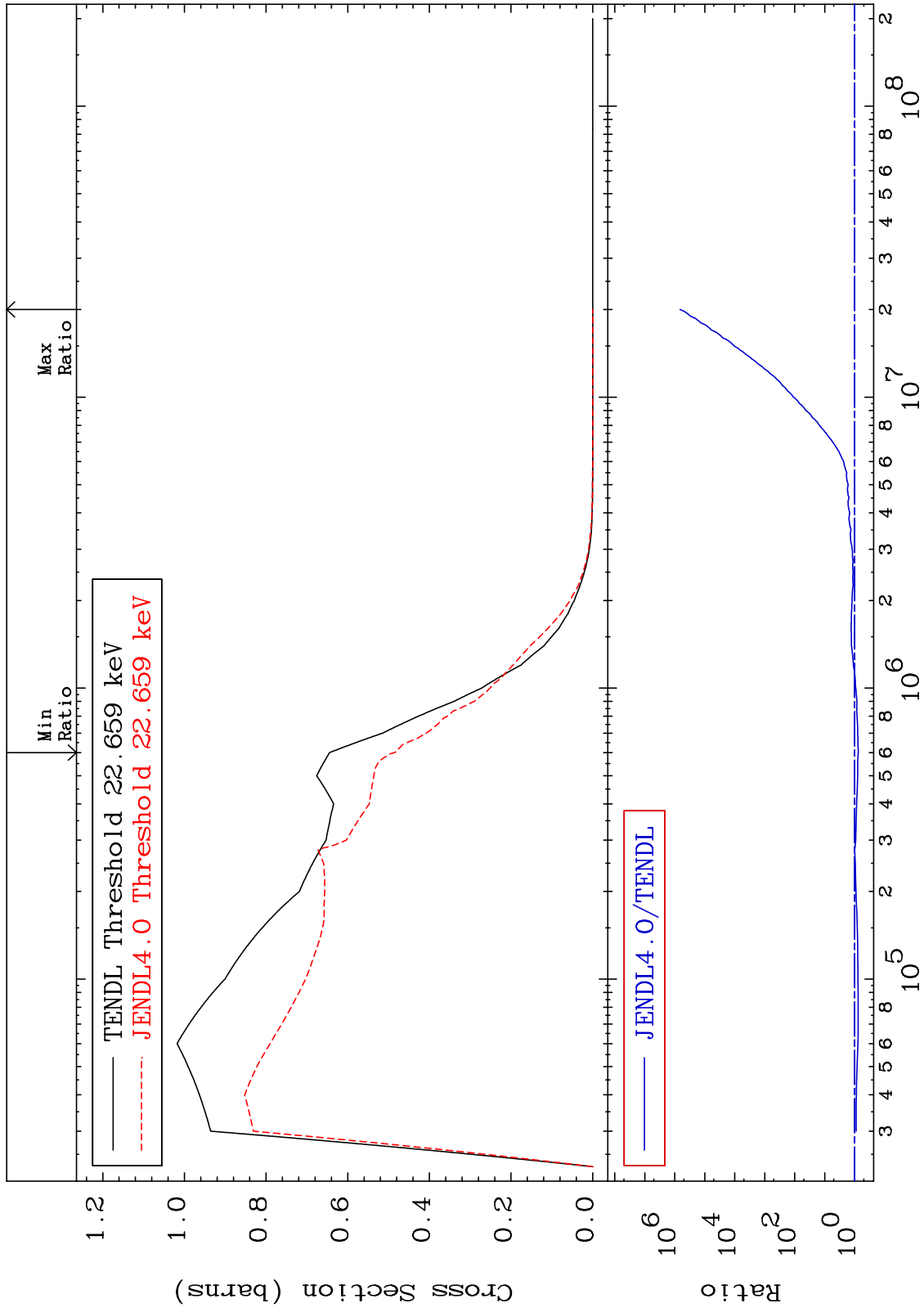
62-Sm-149
-99.59 To 9999. %



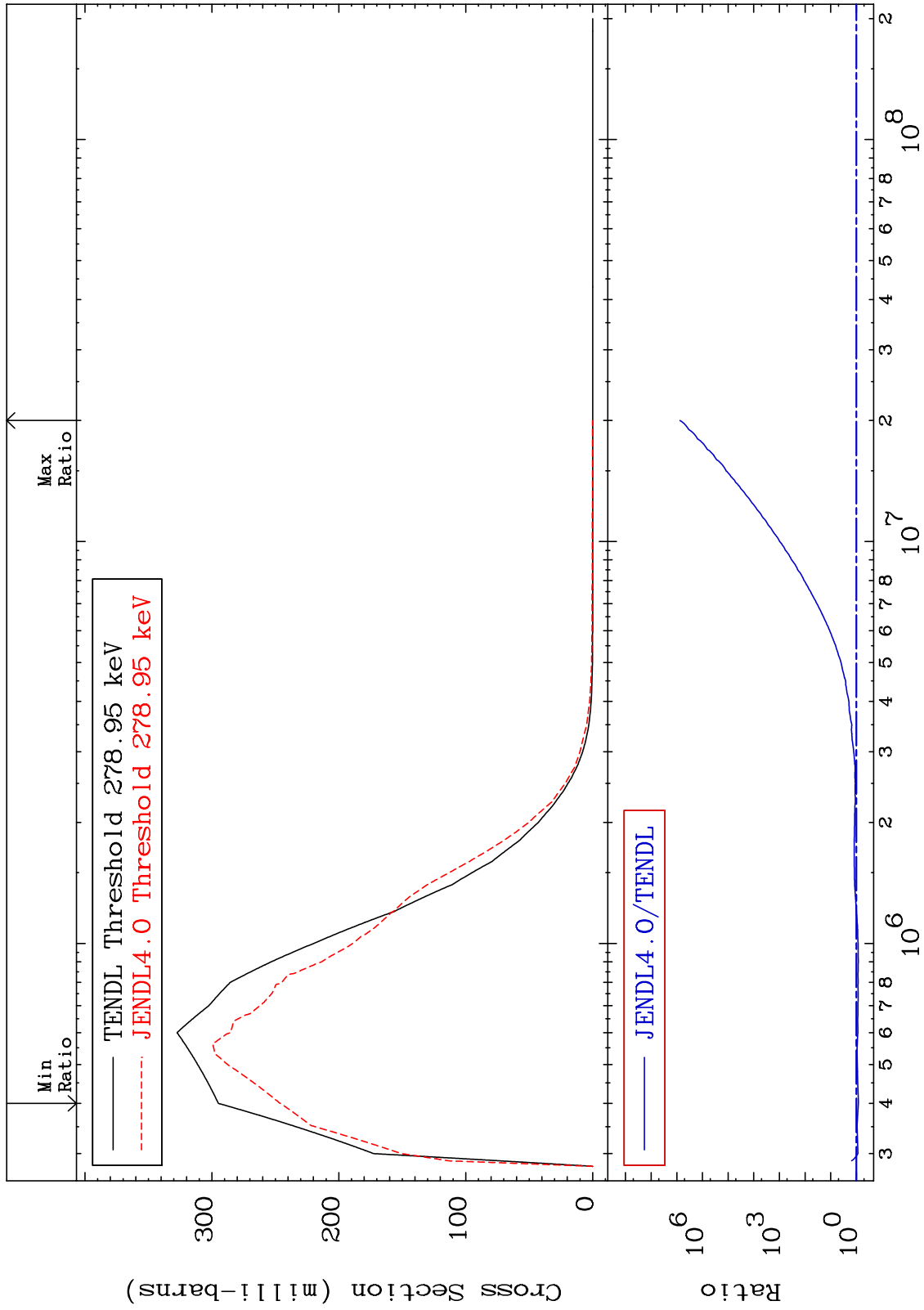
MAT 6240

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

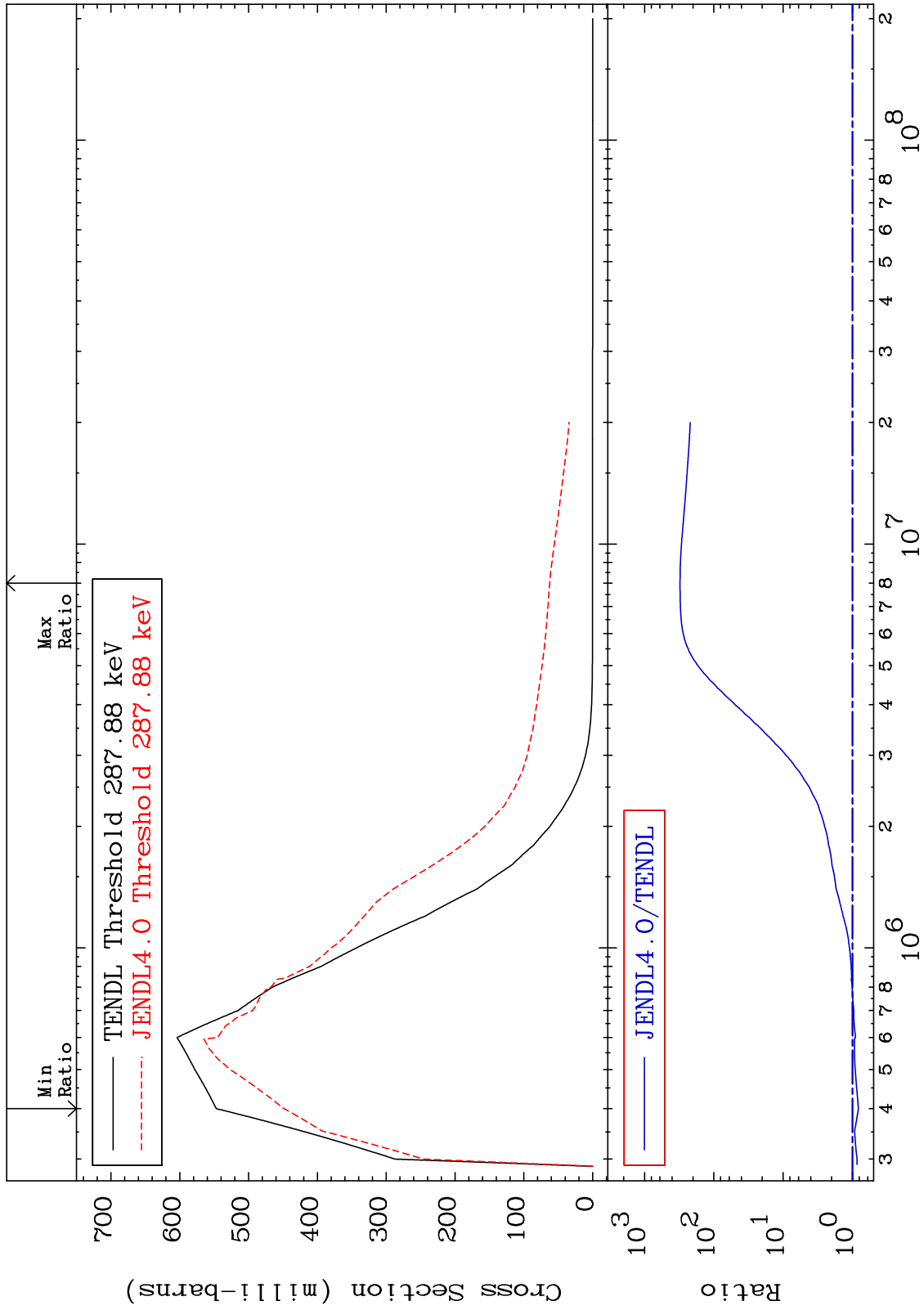
62-Sm-149
-24.78 To 9999. %



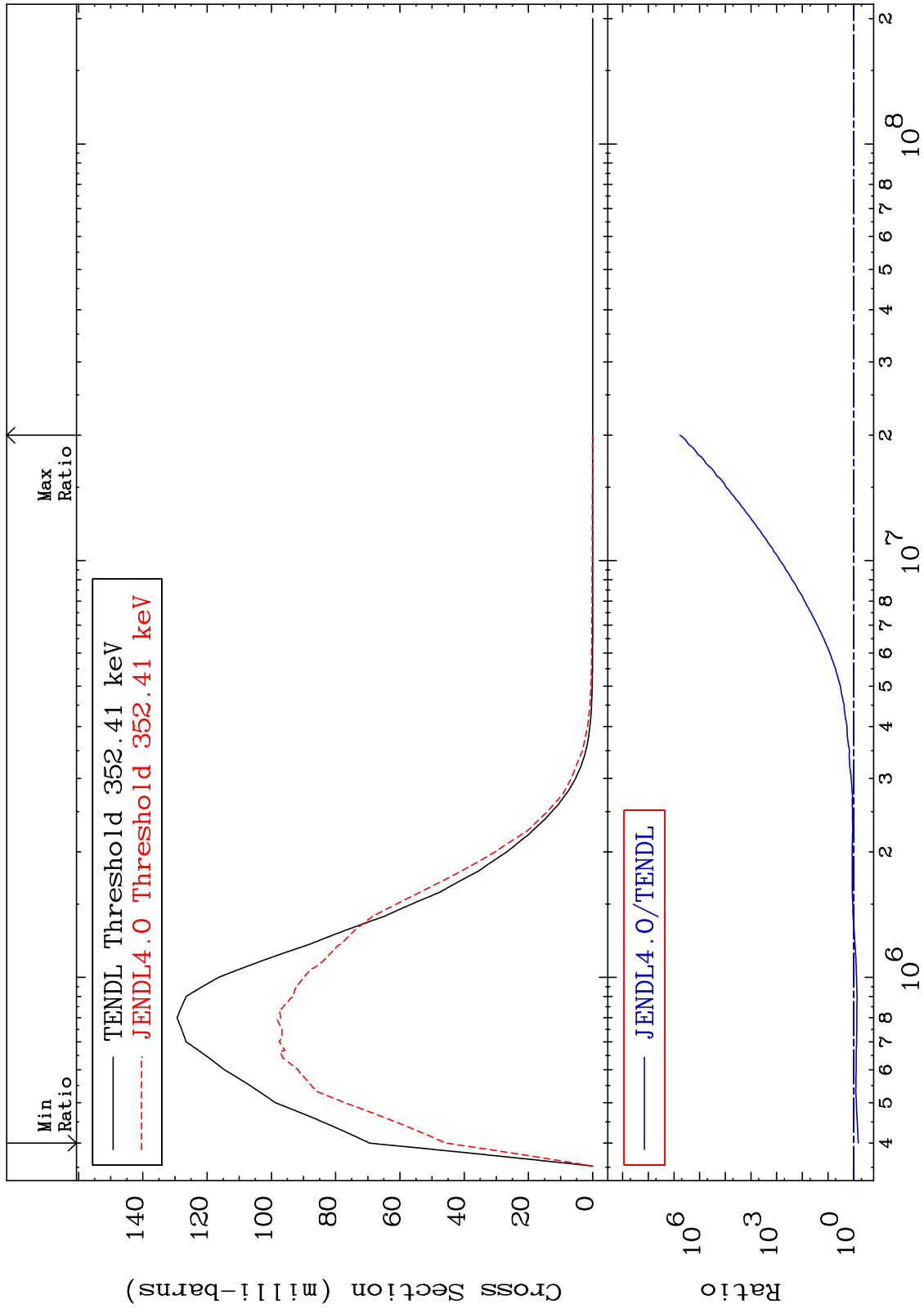
MAT 6240 MT= 52 (n,n') Level 62-Sm-149
 Cross Section -16.57 To 9999. %



MAT 6240 MT= 53 (n,n') Level 62-Sm-149
 Cross Section -18.02 To 9999. %



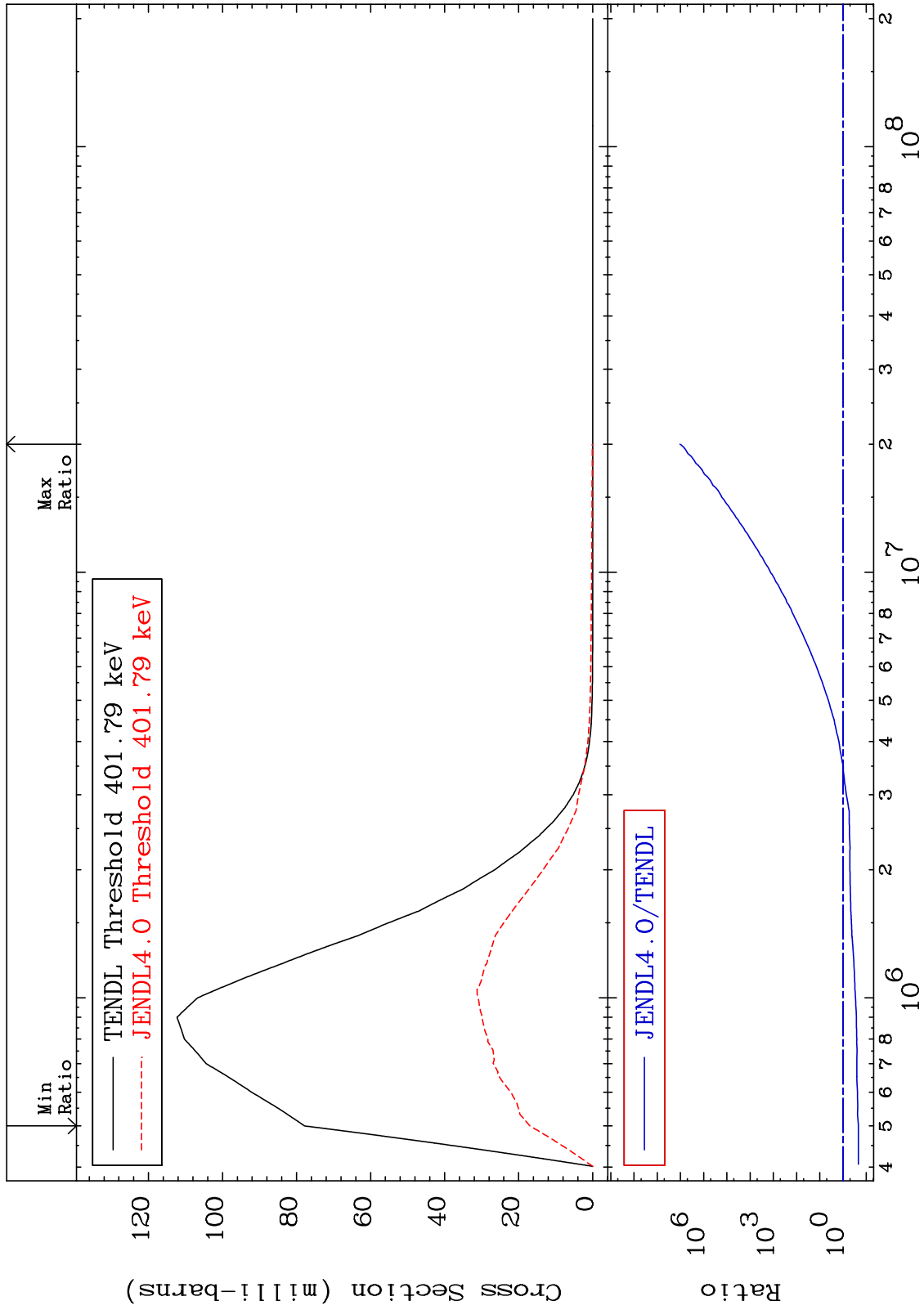
MAT 6240 MT= 54 (n,n') Level 62-Sm-149
Cross Section -34.54 To 9999. %



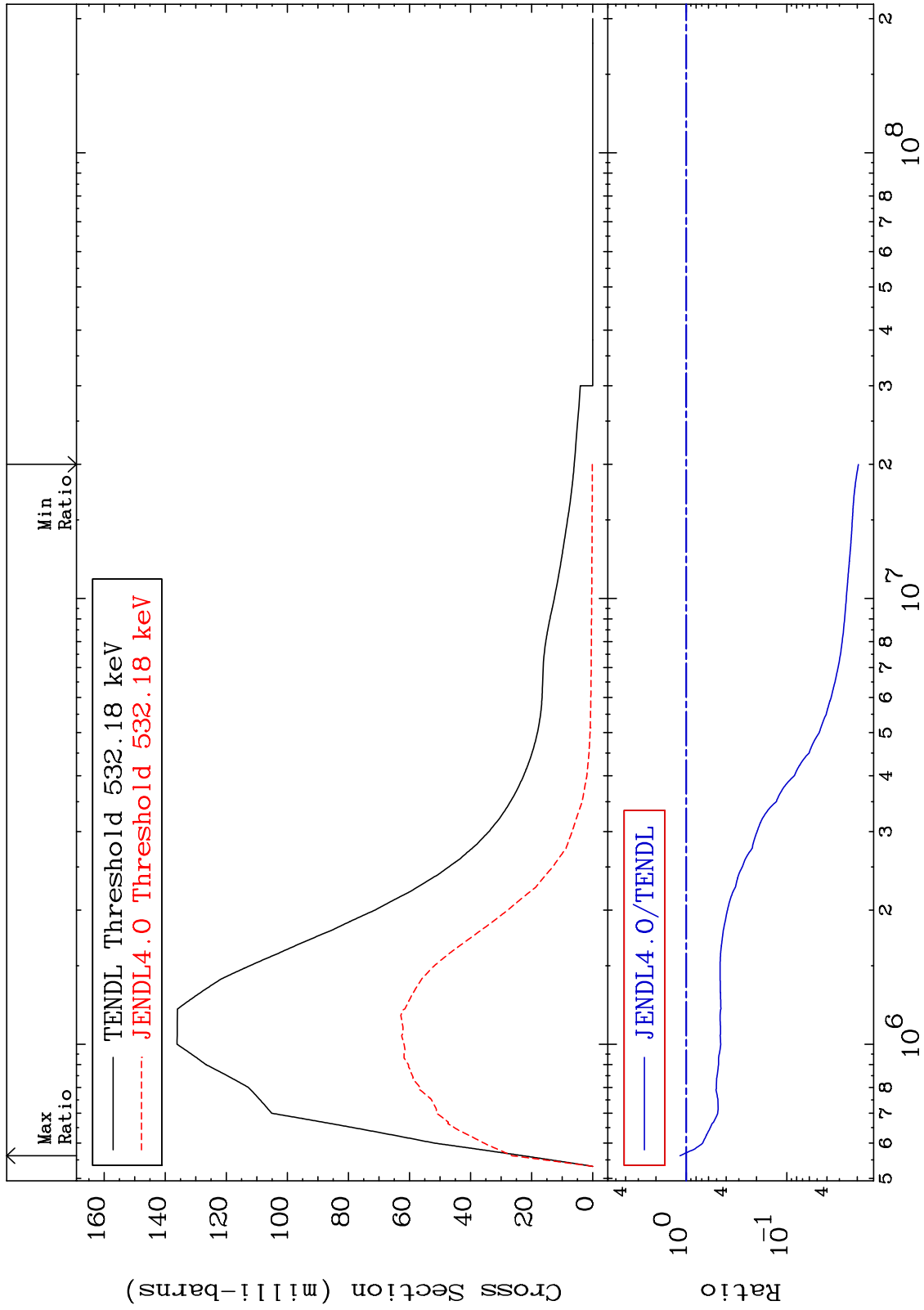
MAT 6240

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

62-Sm-149
-78.19 To 9999. %



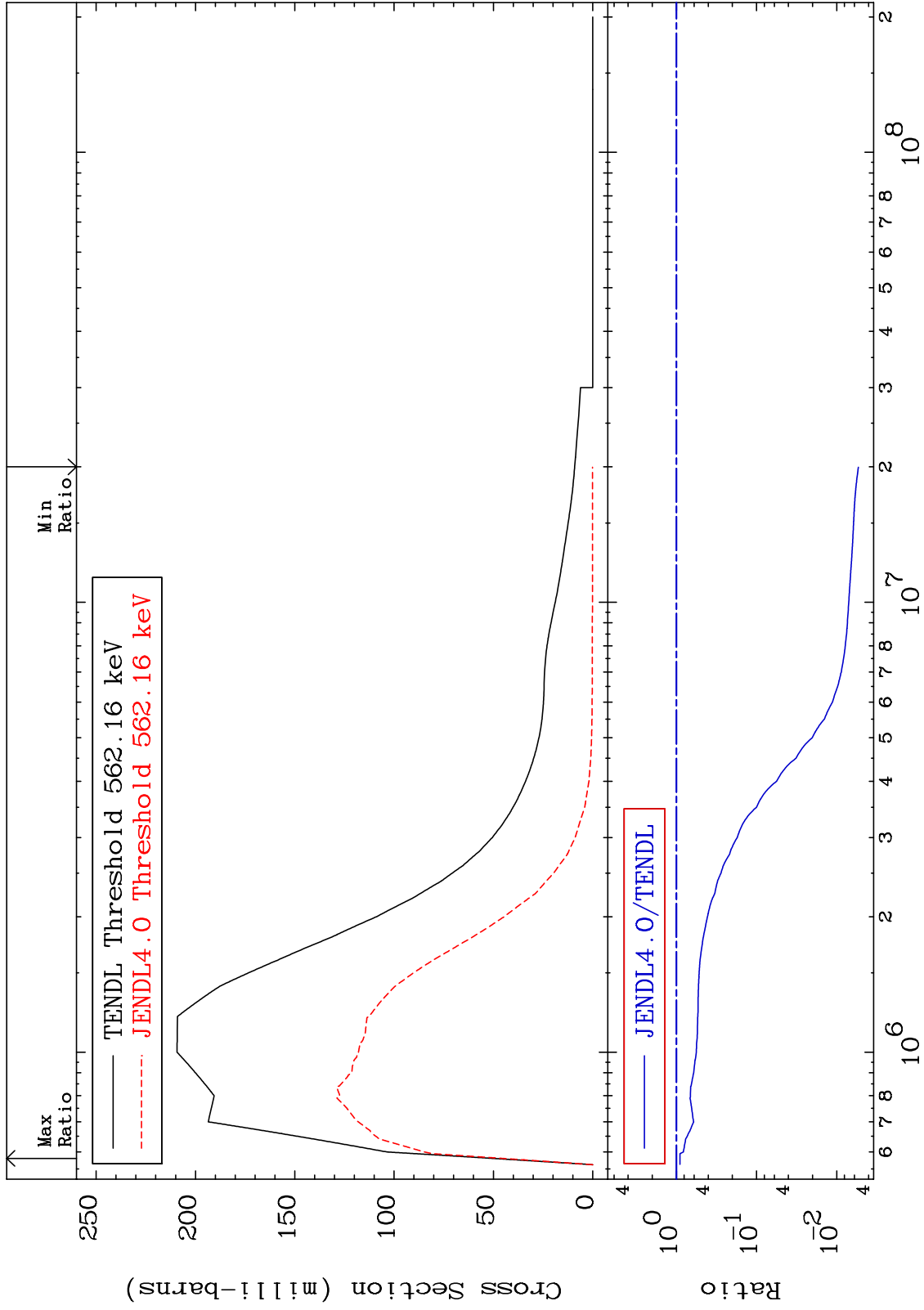
MAT 6240 MT= 56 (n,n') Level 62-Sm-149
 Cross Section -98.05 To 15.28 %



MAT 6240

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

62-Sm-149
-99.46 To -9.943%



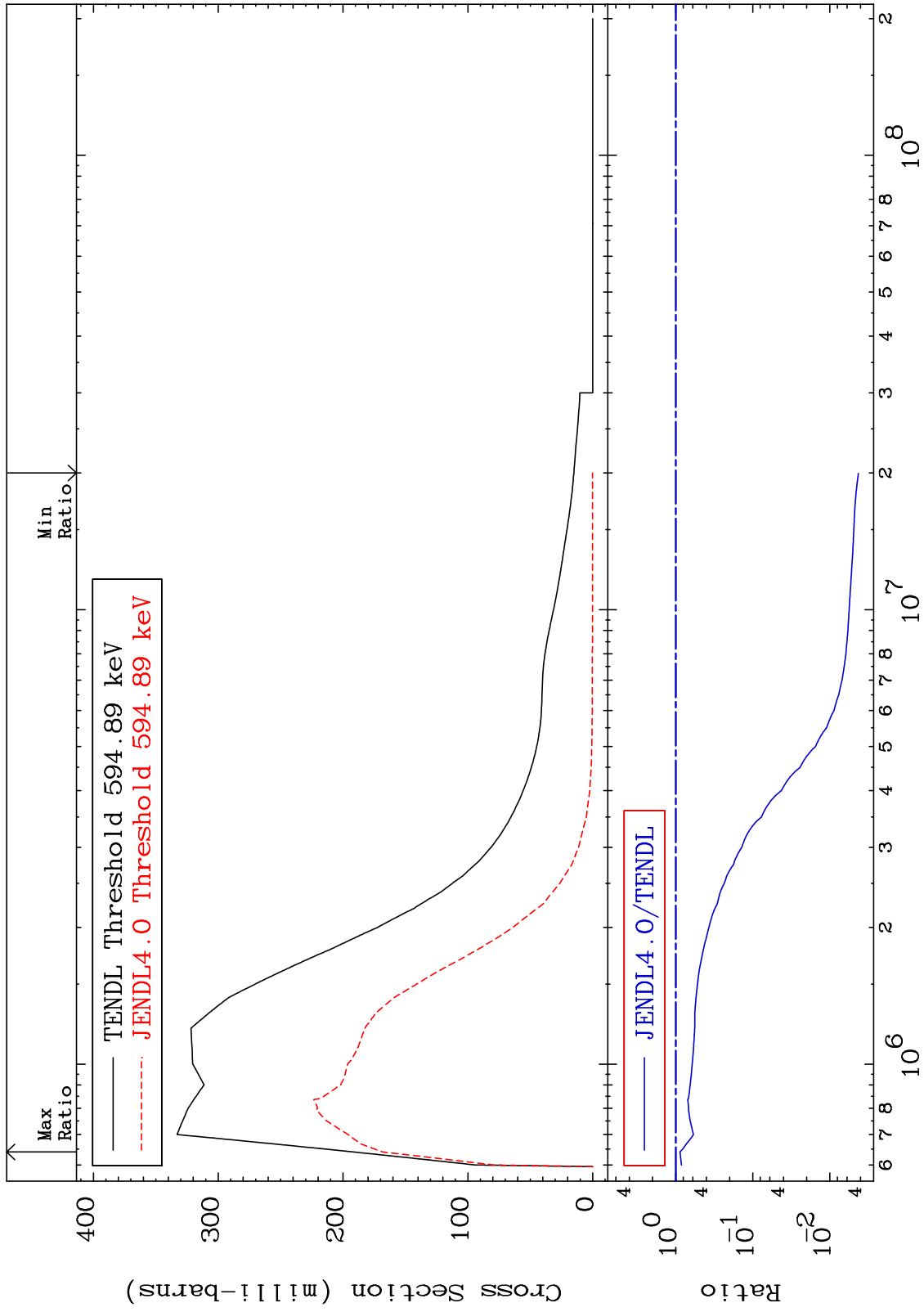
18

62-Sm-149

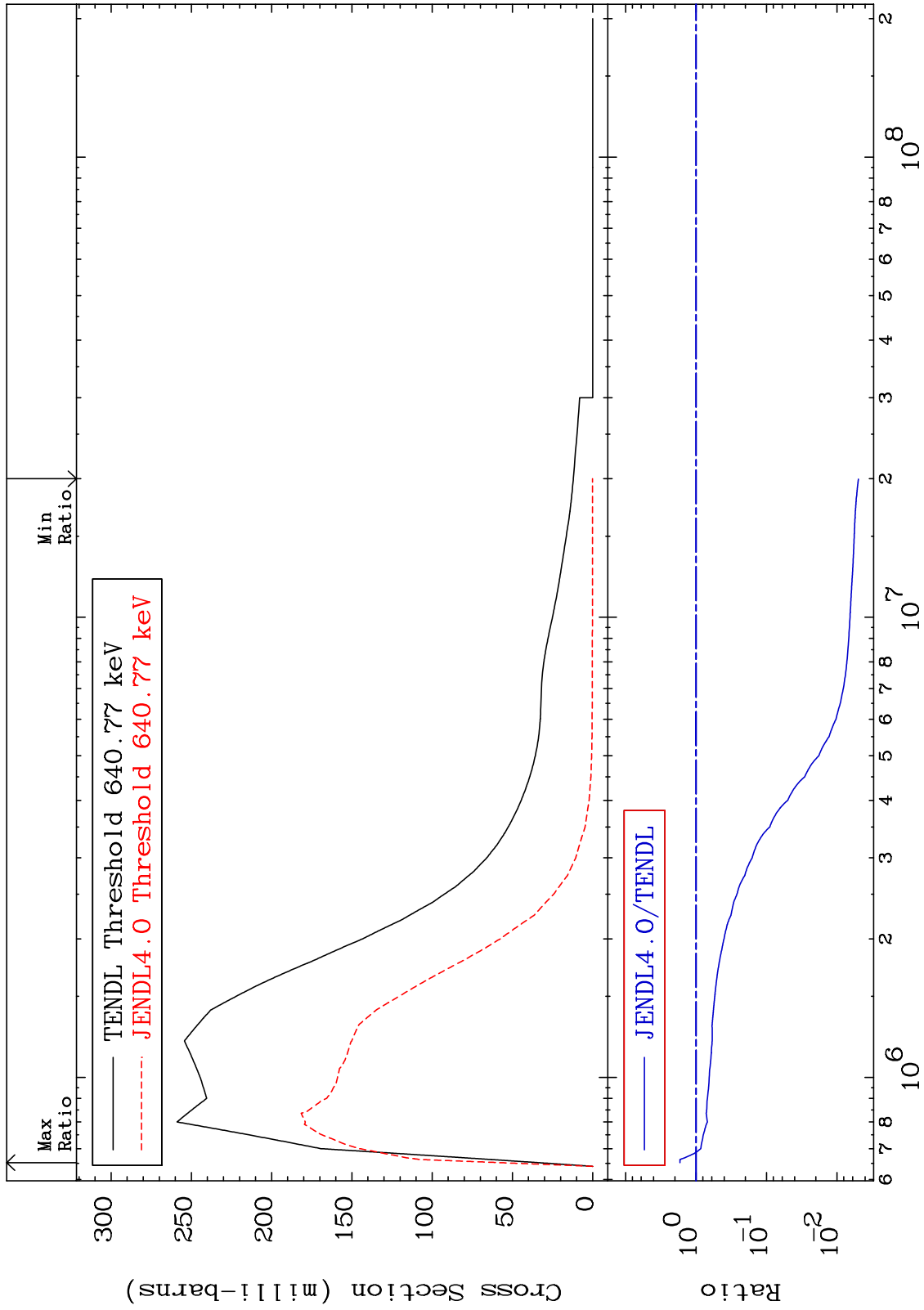
MAT 6240

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

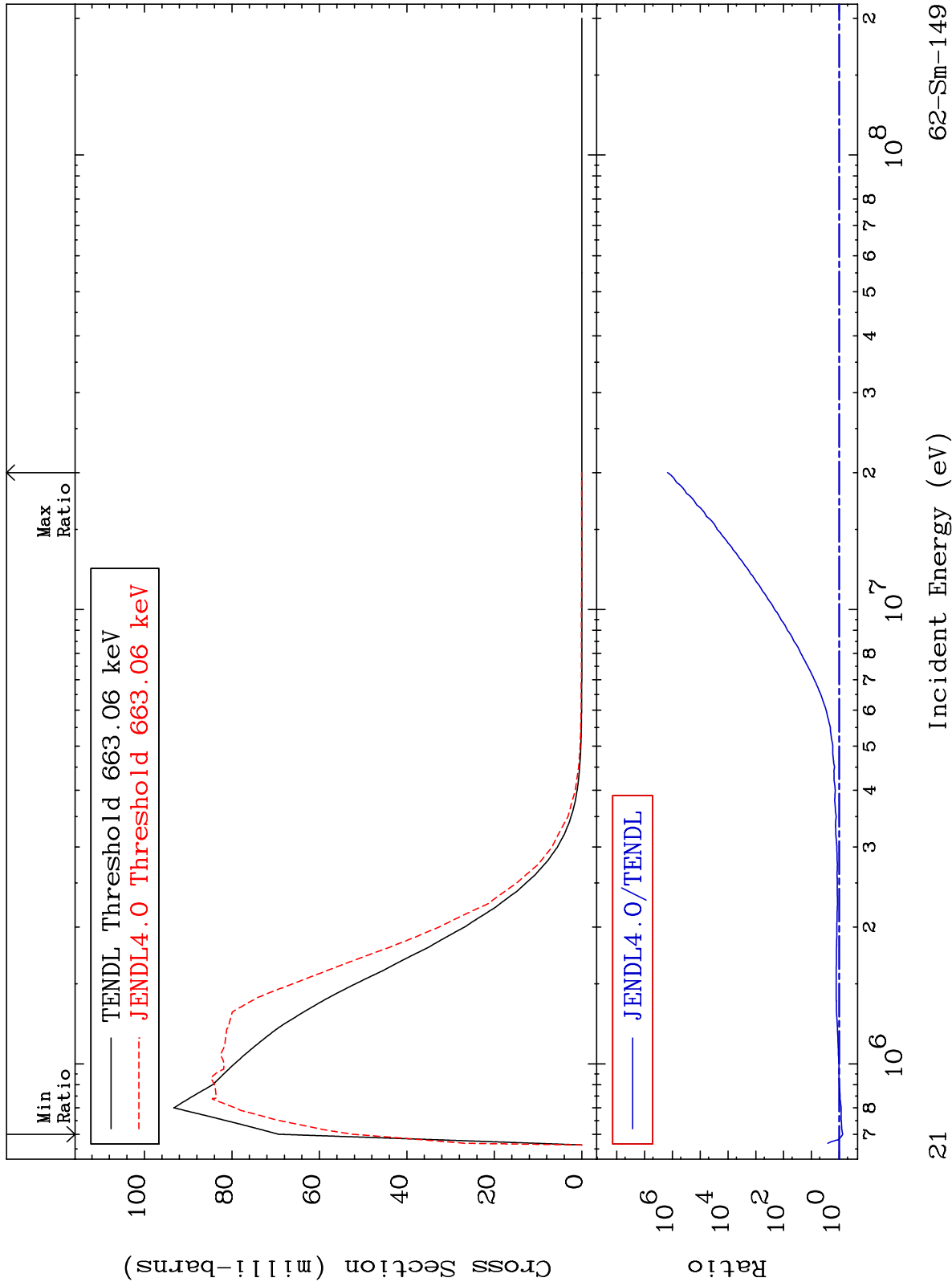
62-Sm-149
-99.57 To -12.09%



MAT 6240 MT= 59 (n,n') Level Cross Section 62-Sm-149 -99.50 To 68.97 %



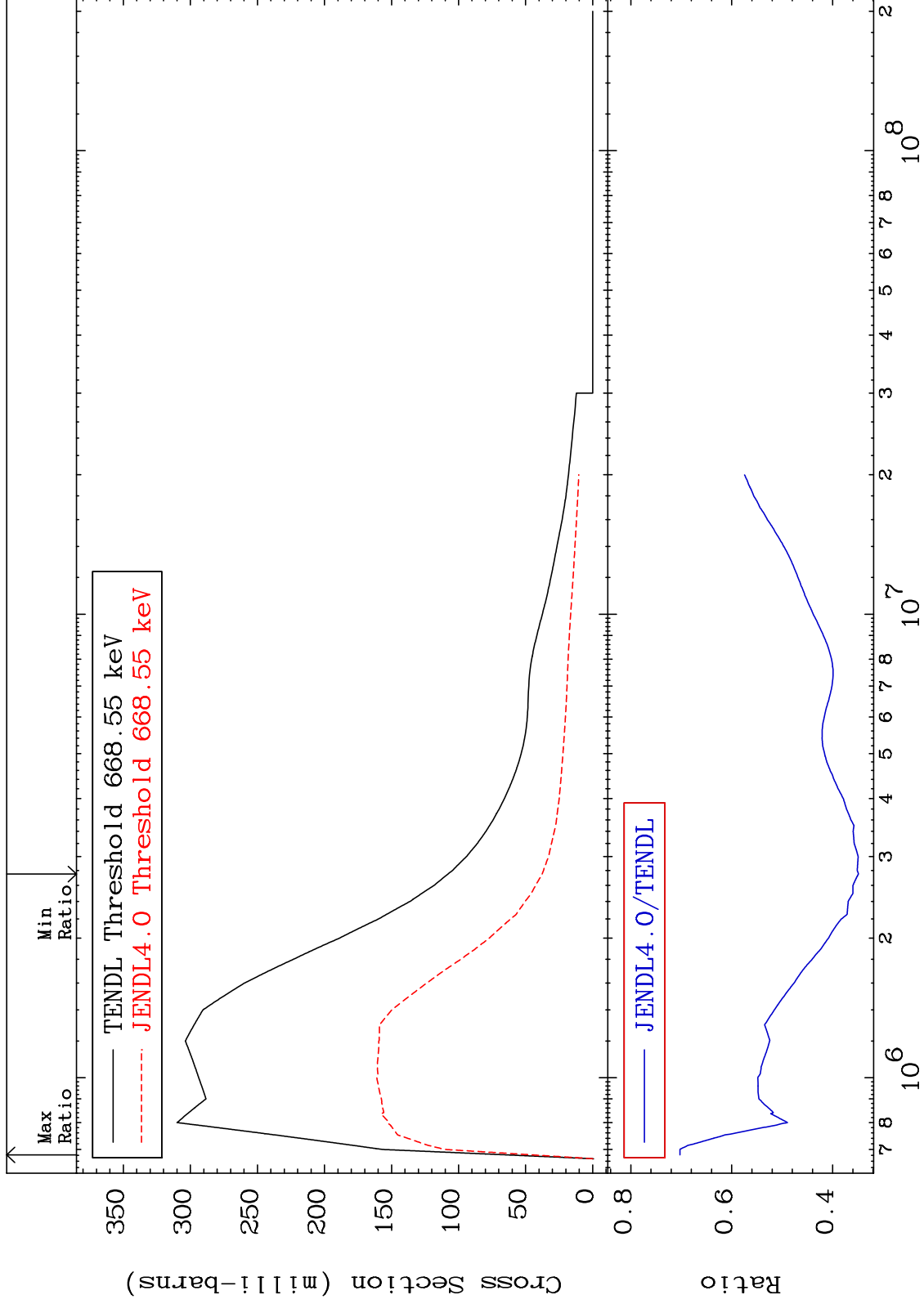
MAT 6240 MT= 60 (n,n') Level 62-Sm-149
 Cross Section -24.62 To 9999. %



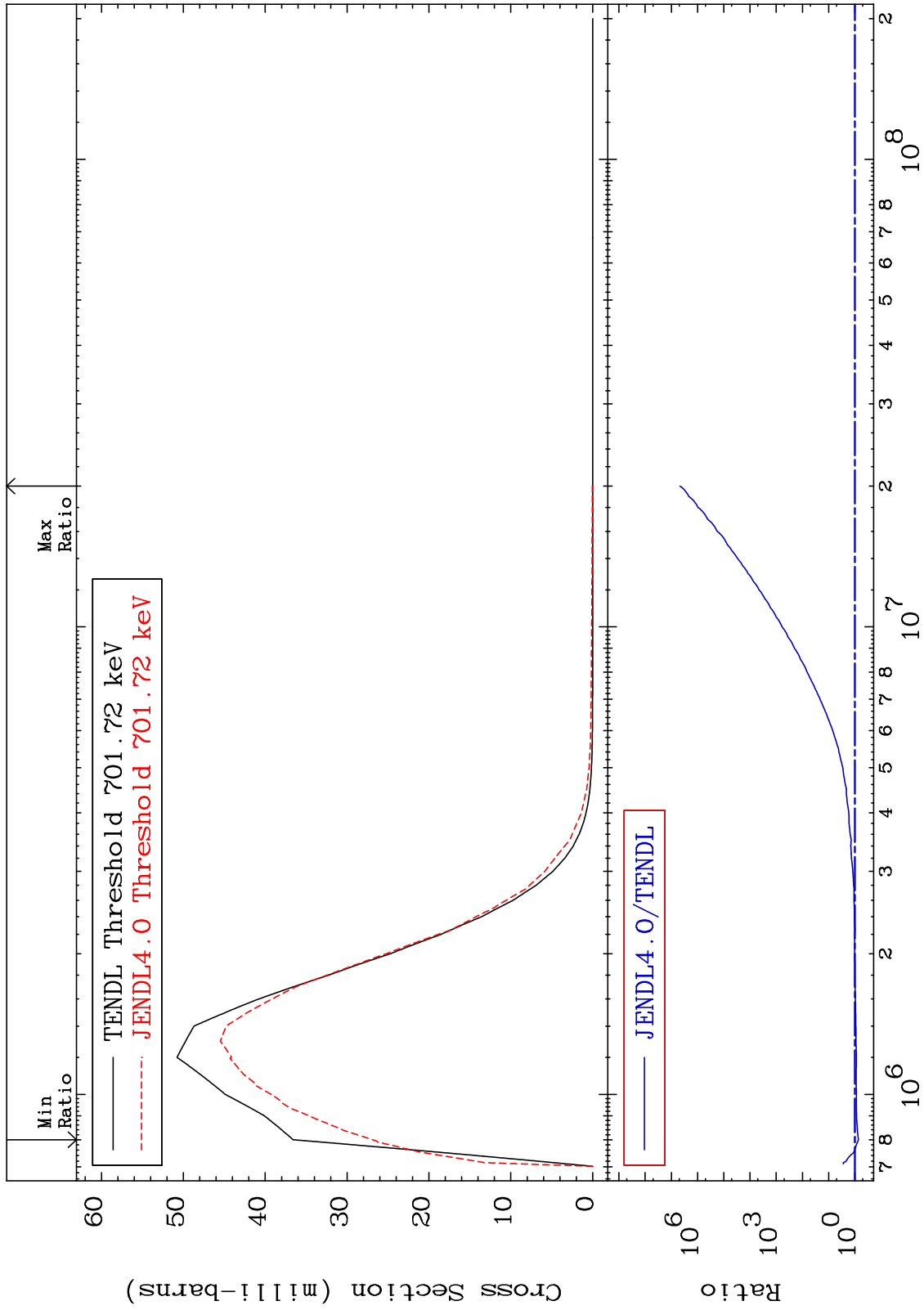
MAT 6240

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

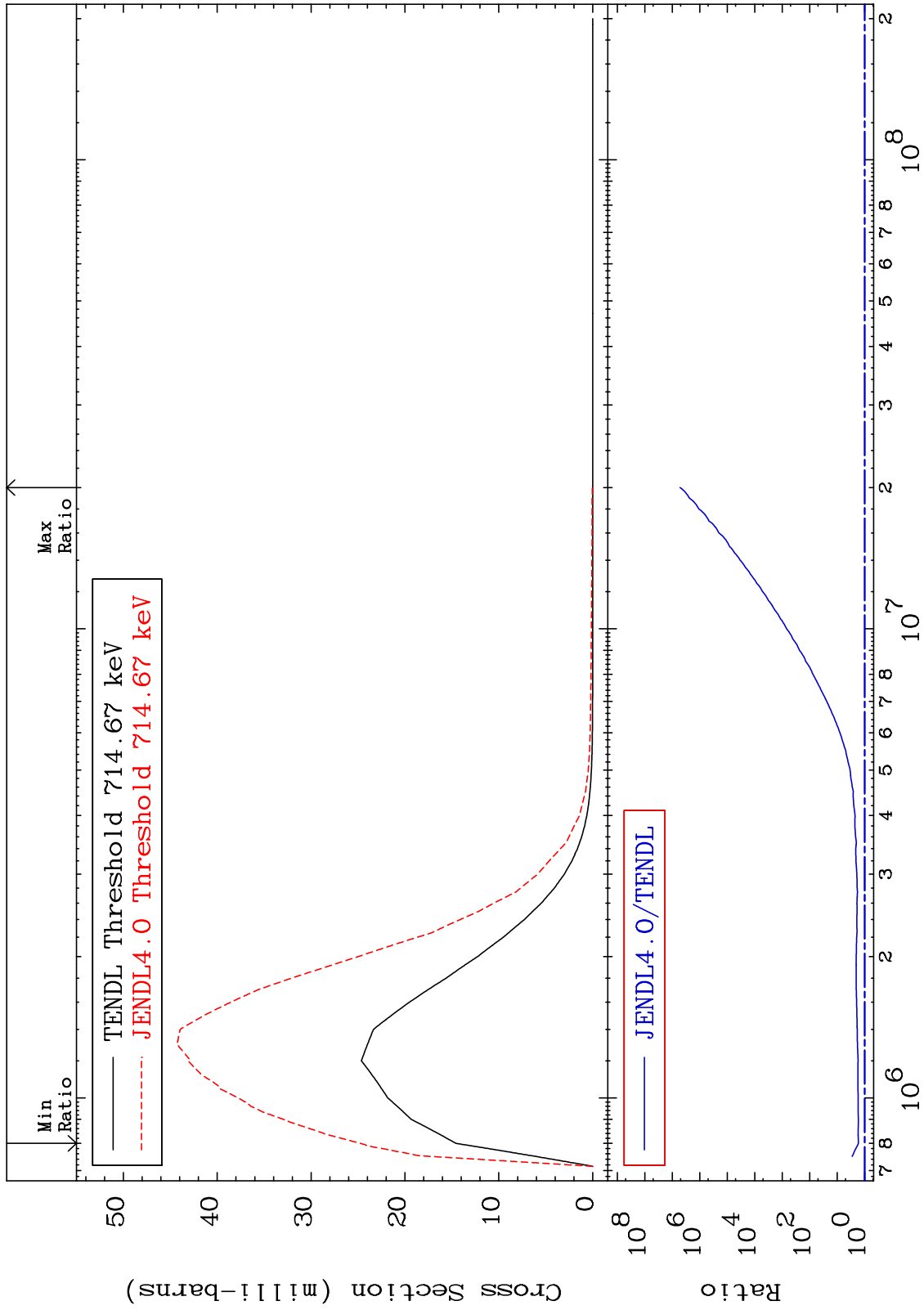
62-Sm-149
-65.10 To -29.75%



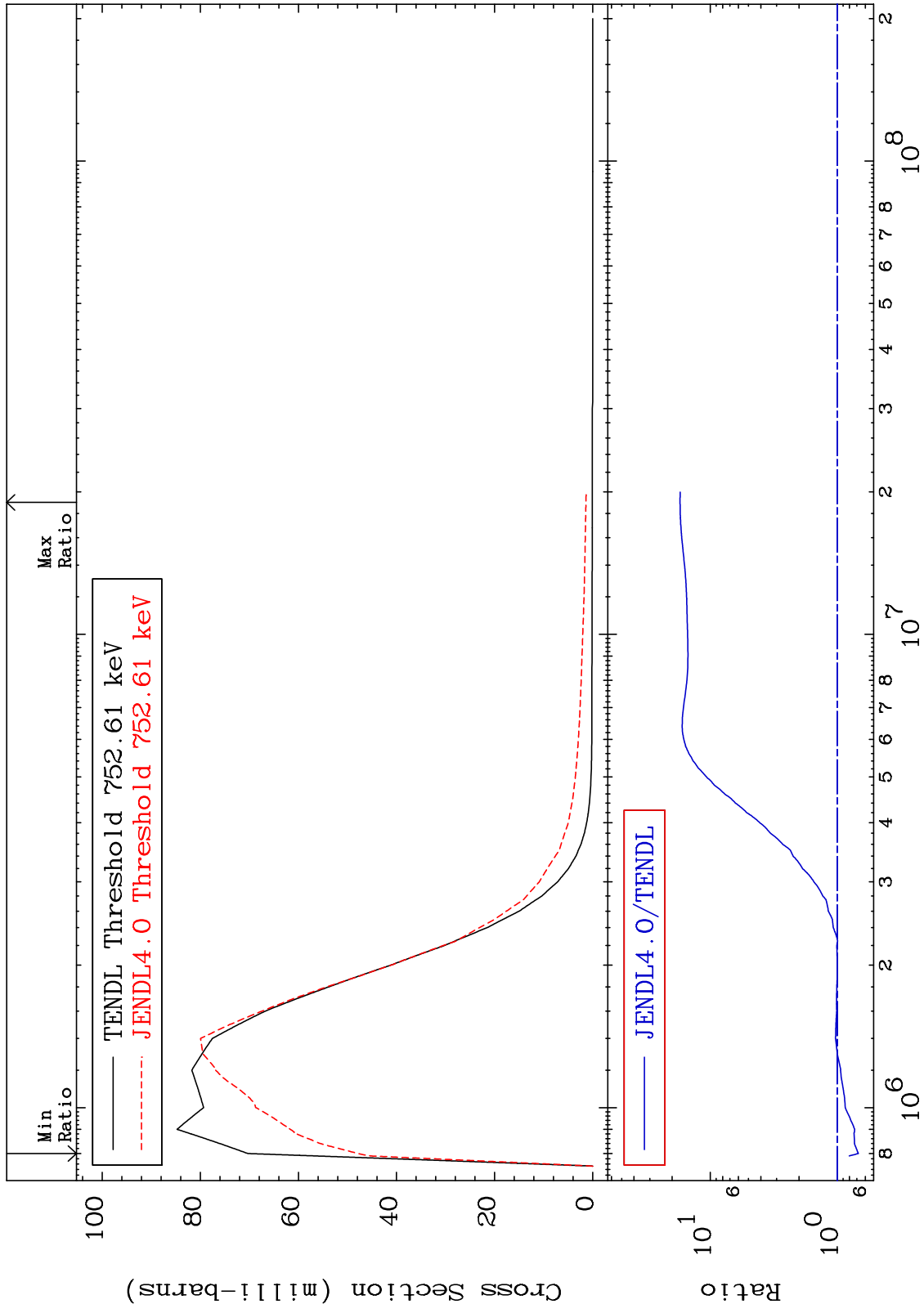
MAT 6240 MT= 62 (n,n') Level Cross Section 62-Sm-149
 -26.55 To 9999. %



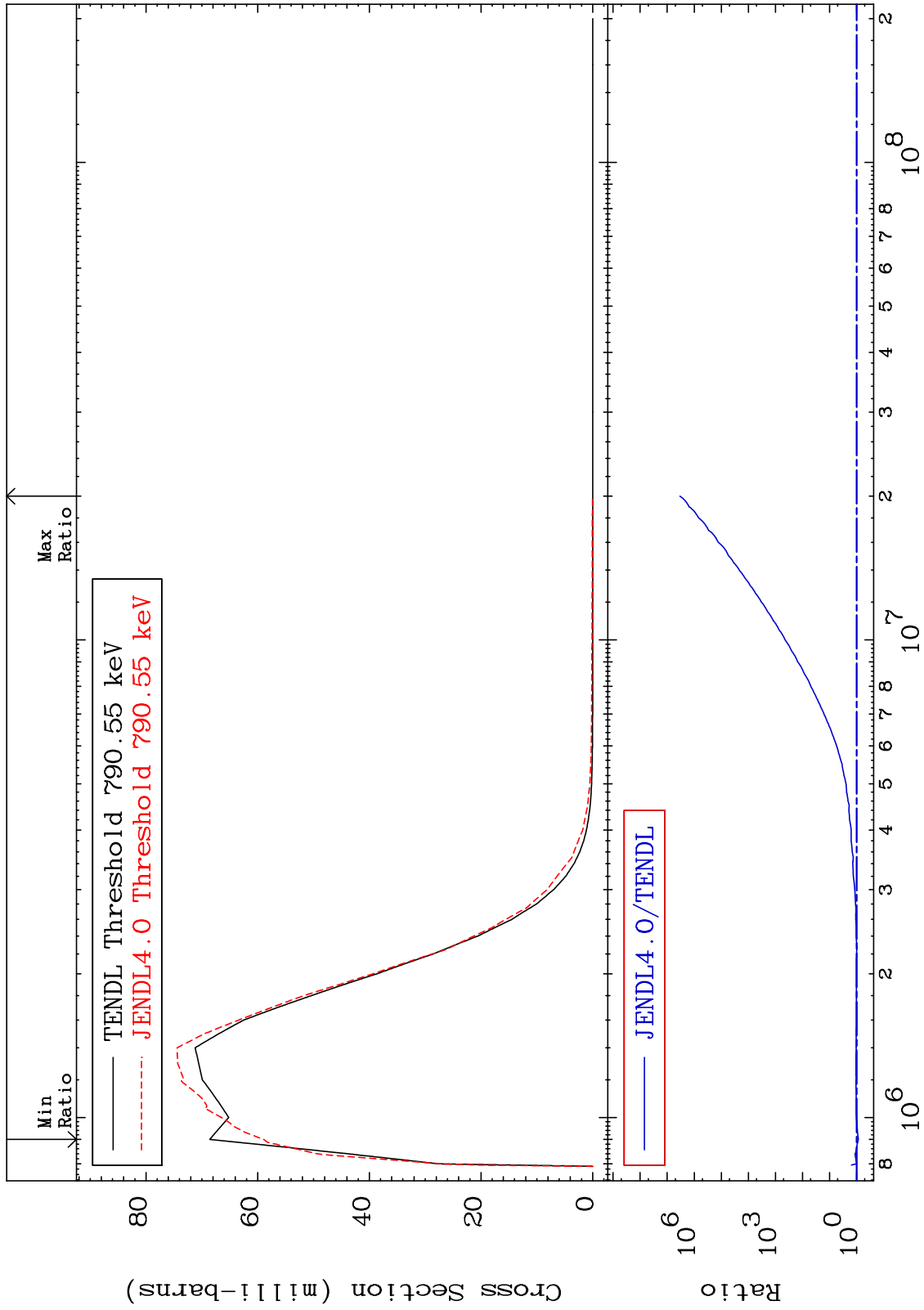
MAT 6240 MT= 63 (n,n') Level 62-Sm-149
 Cross Section 69.91 To 9999. %



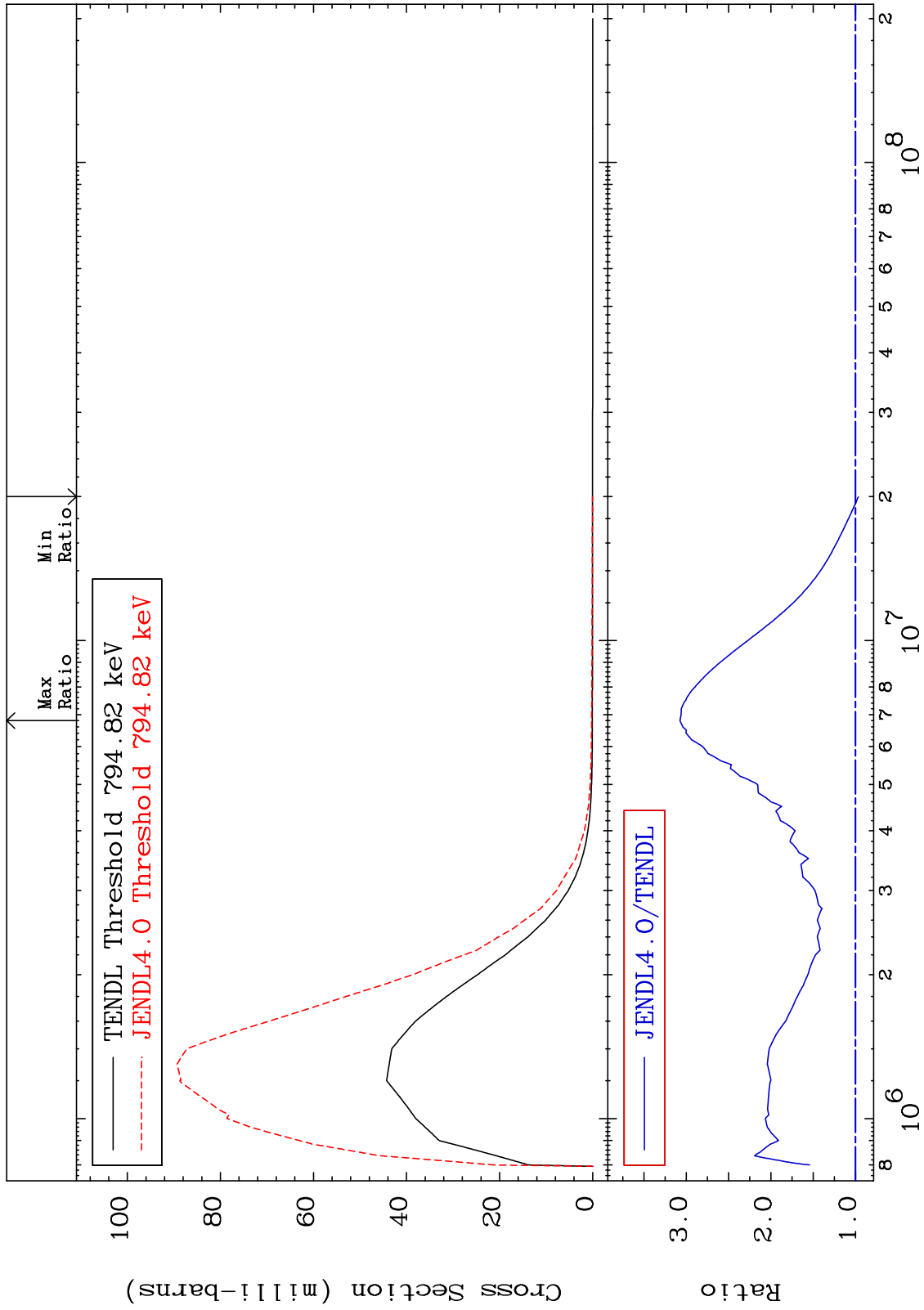
MAT 6240 MT= 64 (n,n') Level 62-Sm-149
 Cross Section -31.94 To 1633. %



MAT 6240 MT= 65 (n,n') Level 62-Sm-149
Cross Section -14.06 To 9999. %



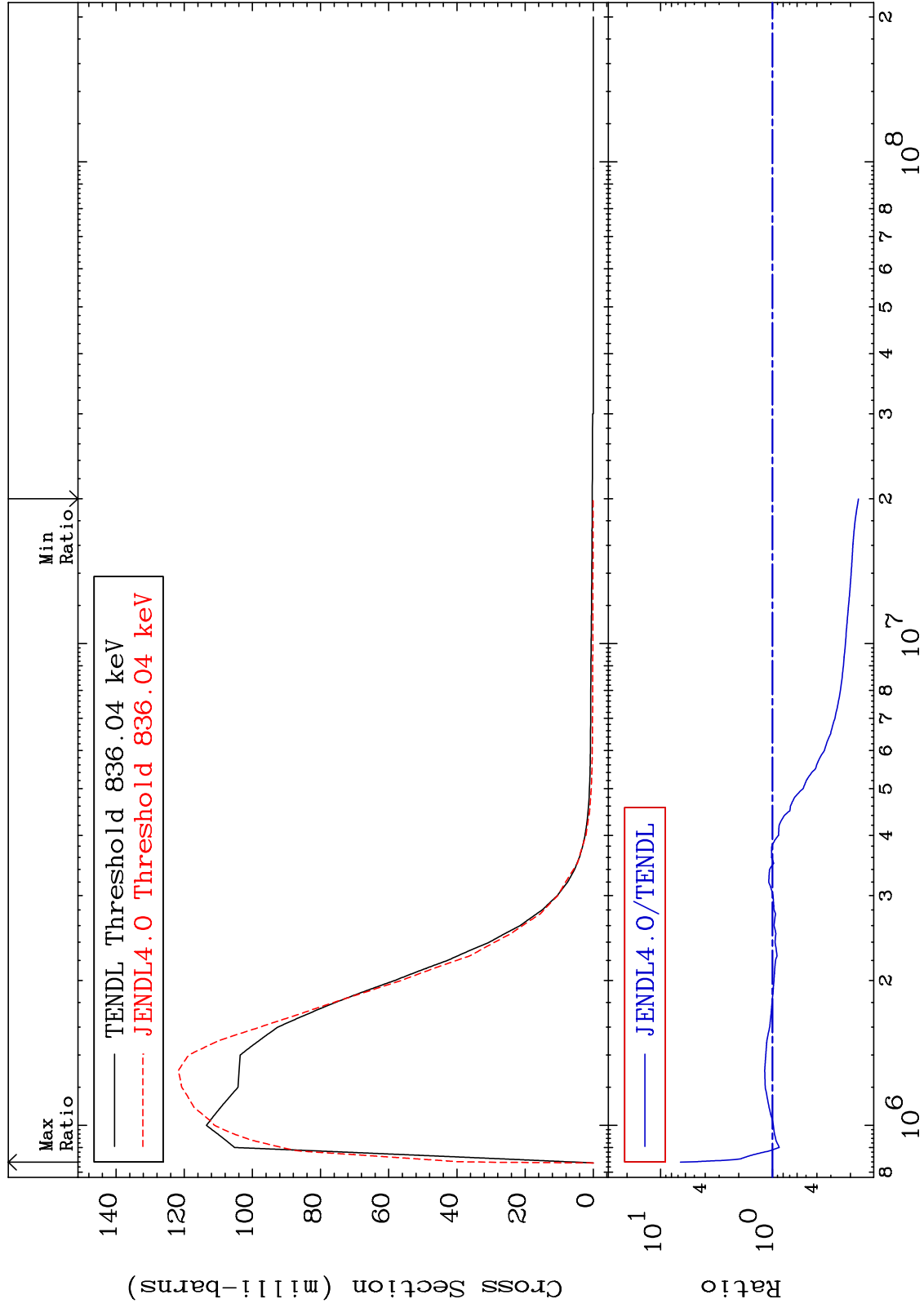
MAT 6240 MT= 66 (n,n') Level Cross Section 62-Sm-149
-3.499 To 207.5 %



MAT 6240

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

62-Sm-149
-83.06 To 564.8 %



28

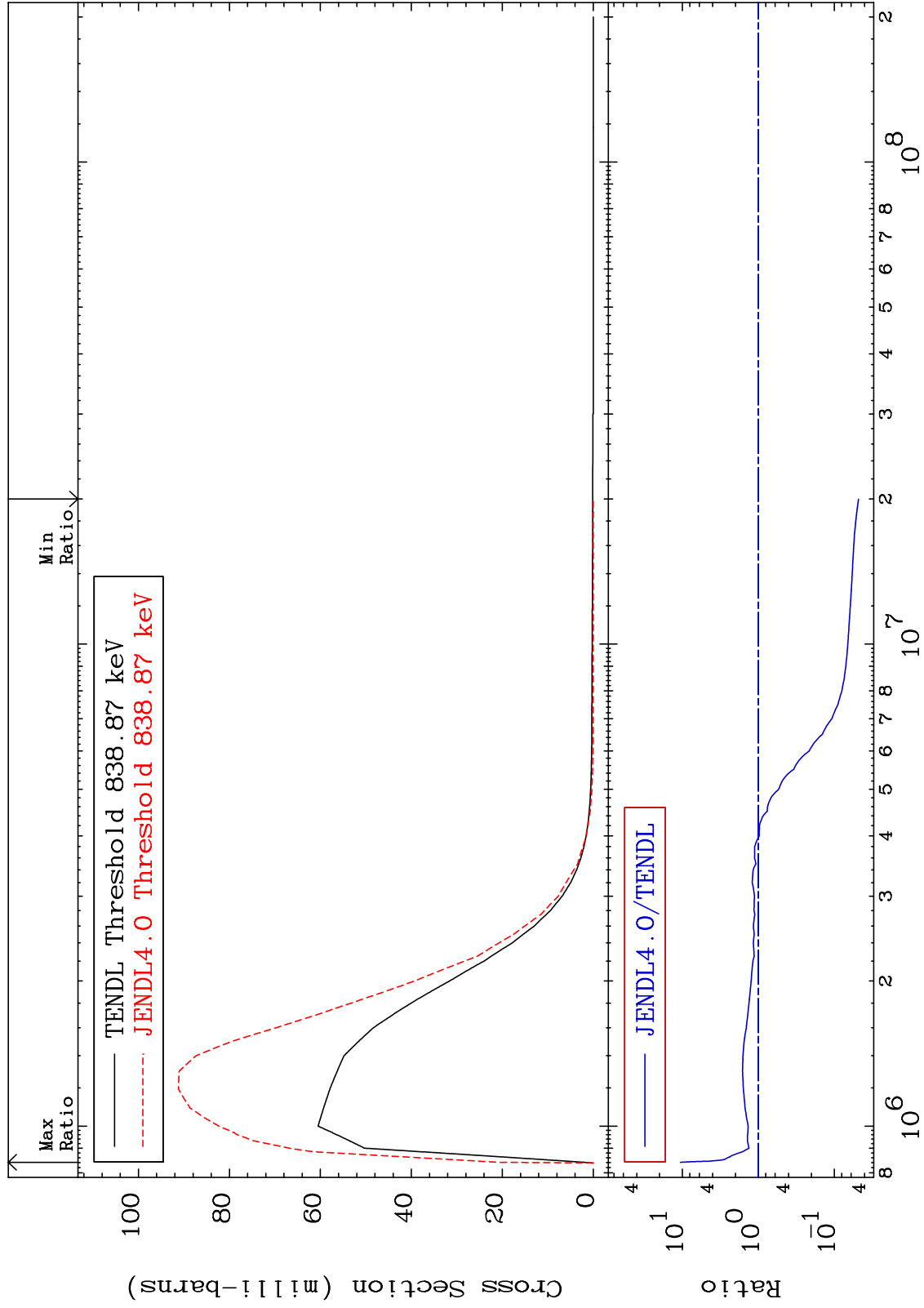
Incident Energy (eV)

62-Sm-149

MAT 6240

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

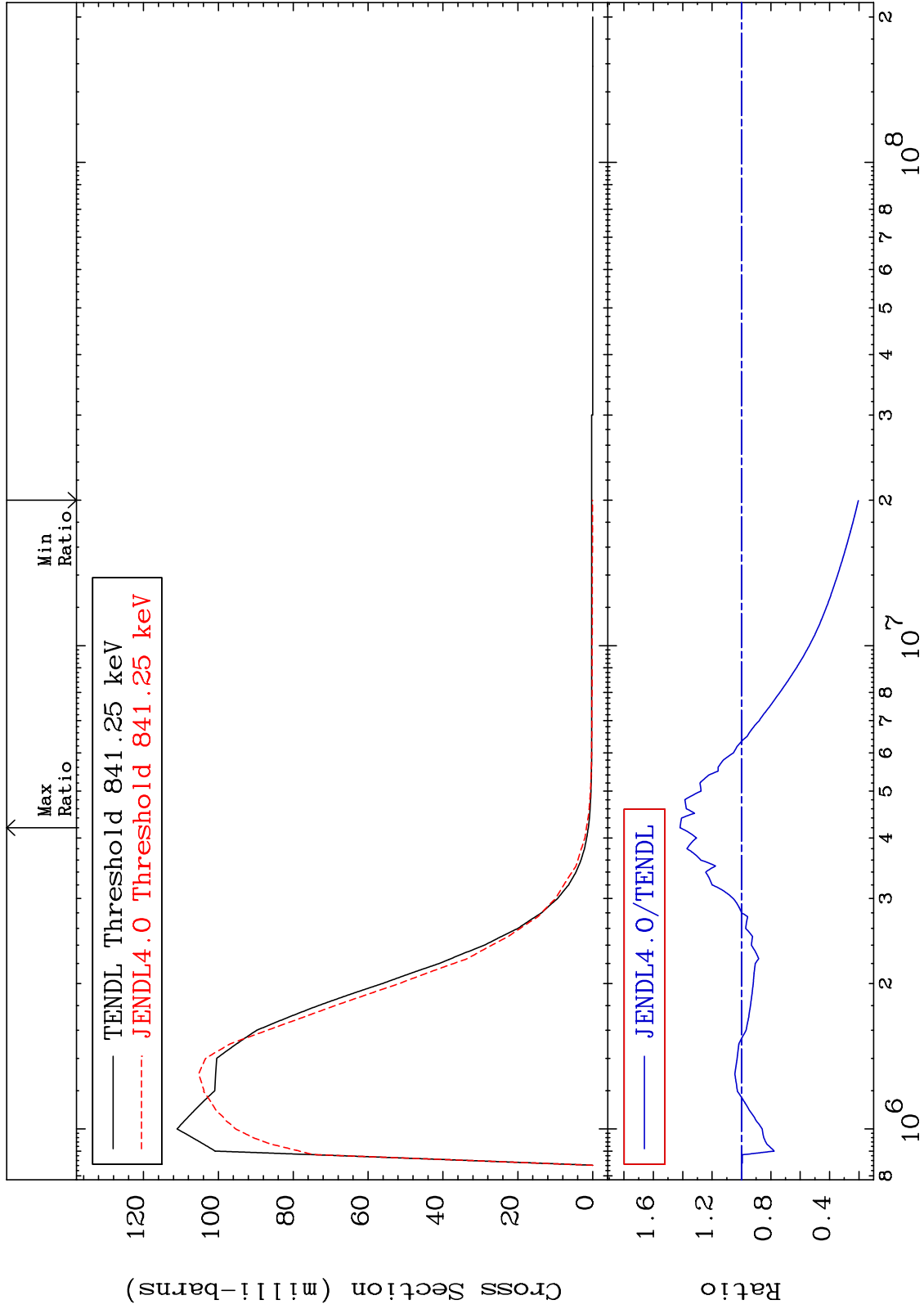
62-Sm-149
-95.21 To 962.1 %



MAT 6240

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

62-Sm-149
-79.64 To 41.83 %

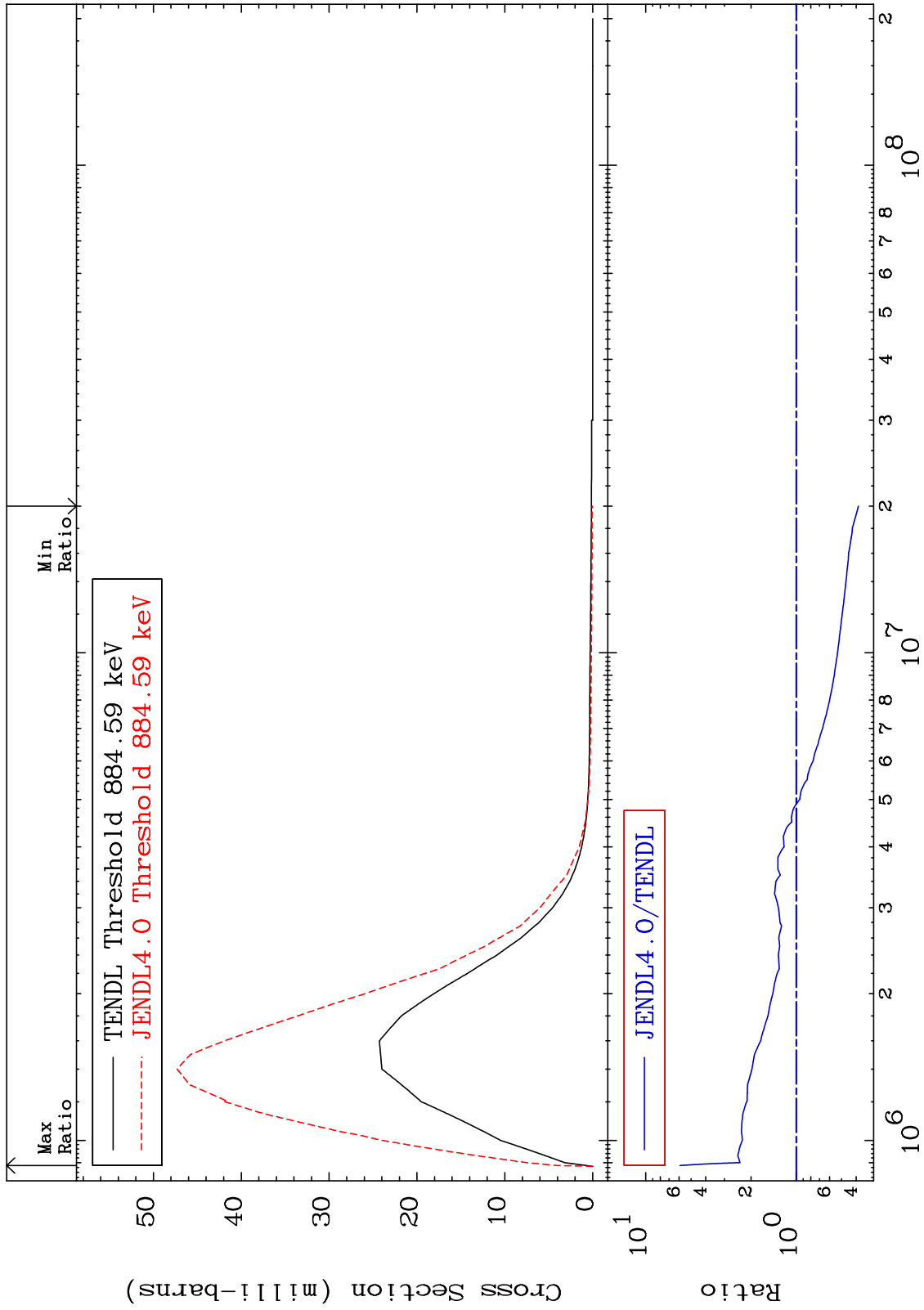


30

Incident Energy (eV)

62-Sm-149

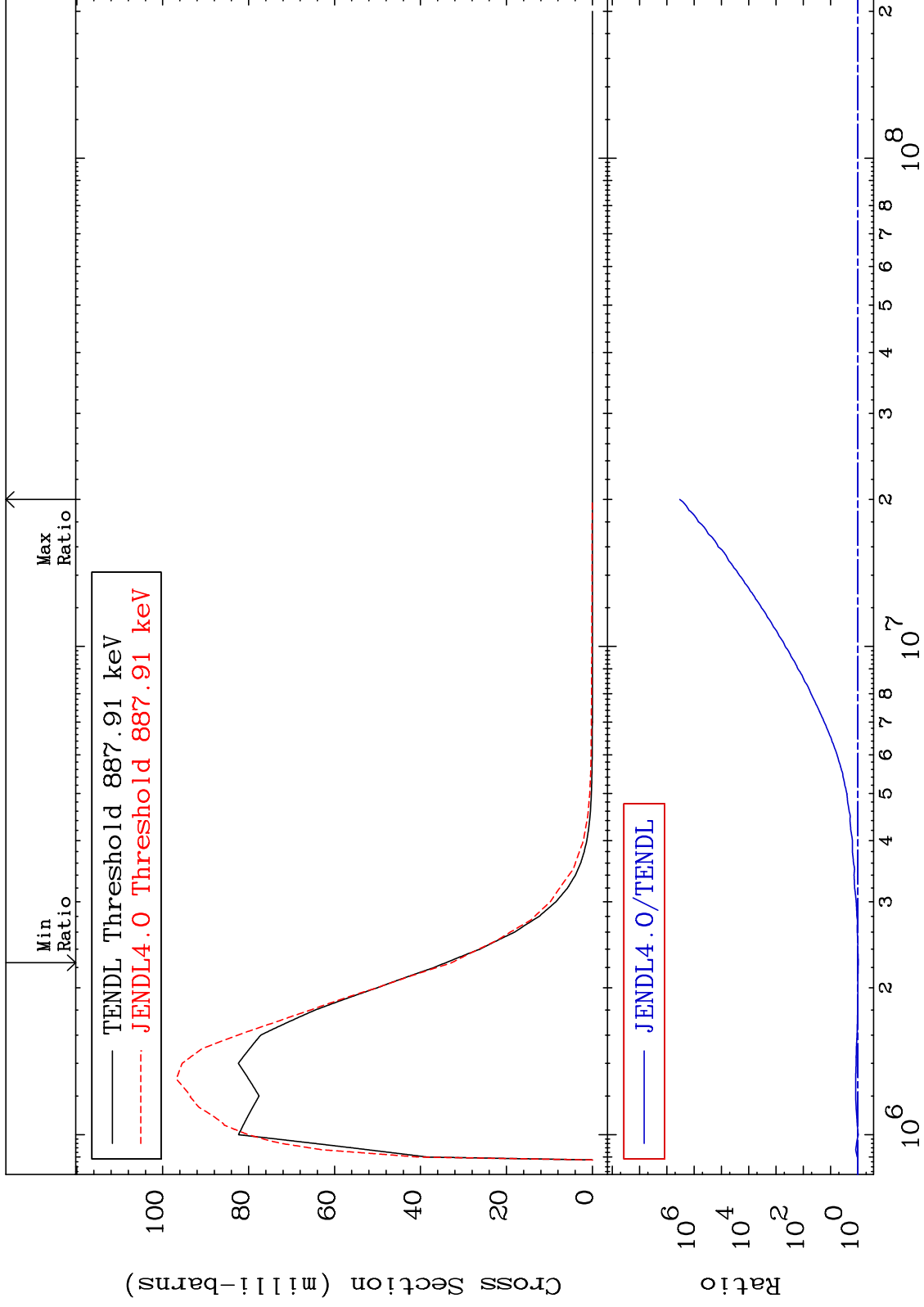
MAT 6240 MT= 70 (n, n') Level
 Cross Section 62-Sm-149
 -61.34 To 492.2 %



MAT 6240

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

62-Sm-149
-4.054 To 9999. %

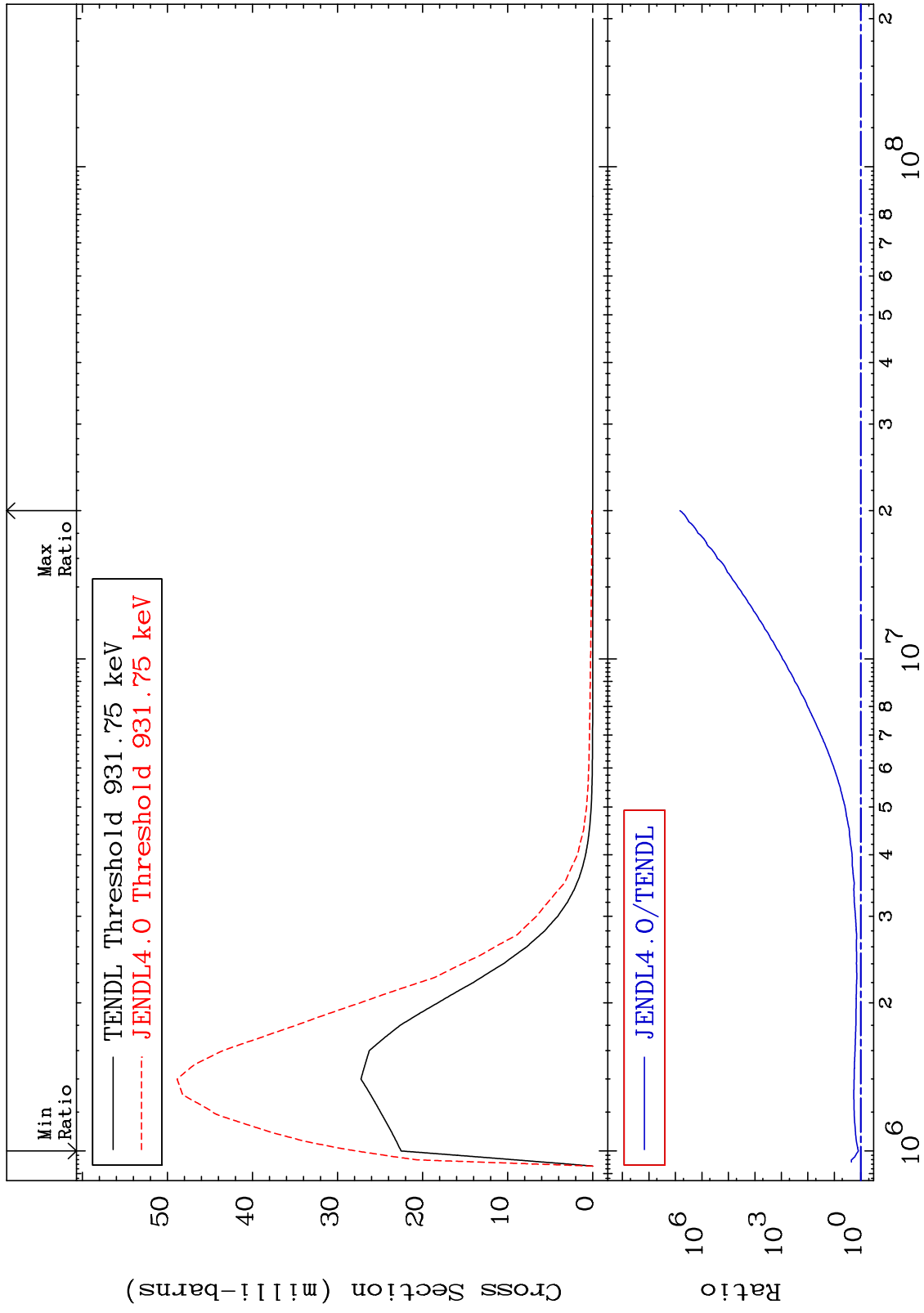


32

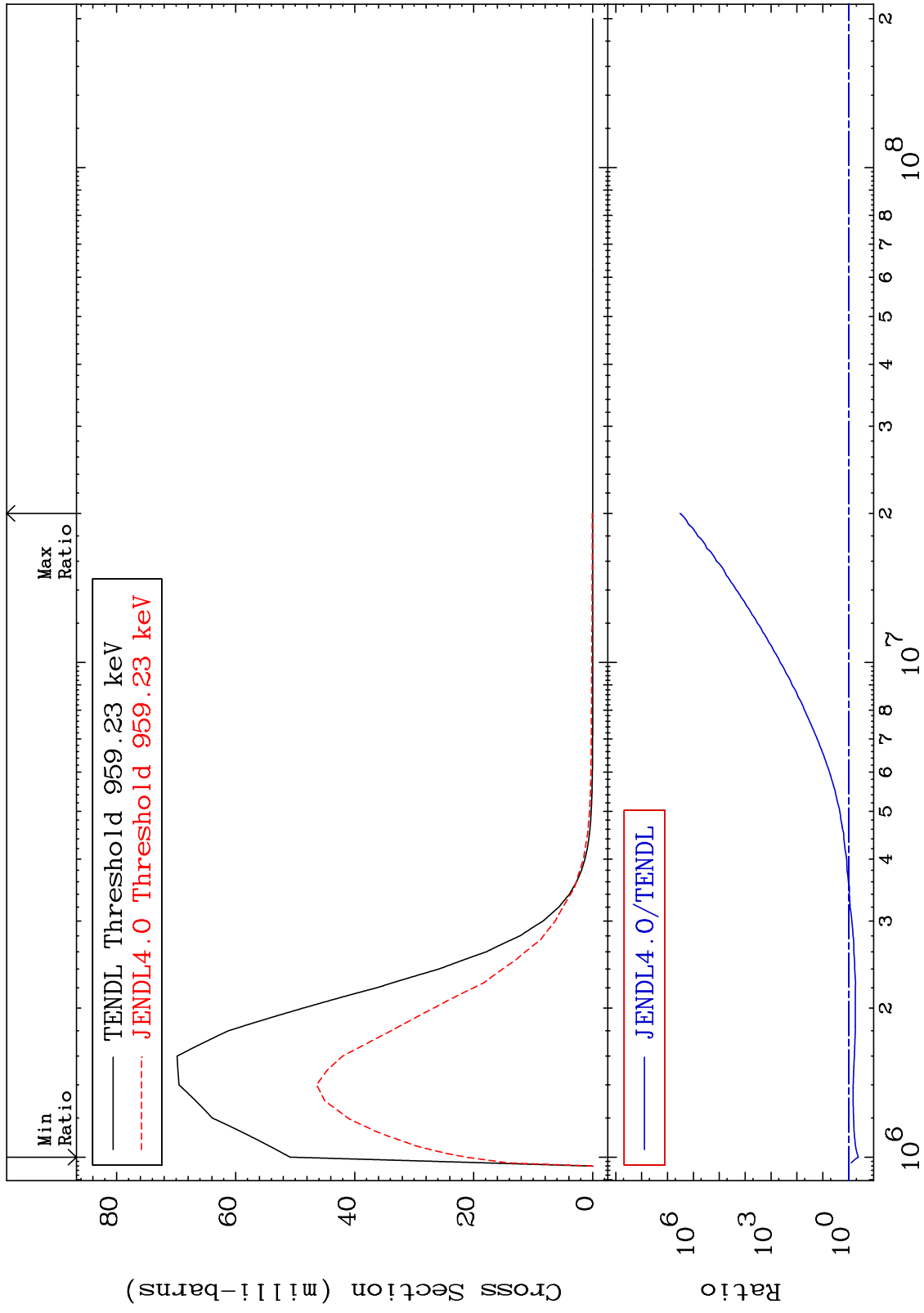
Incident Energy (eV)

62-Sm-149

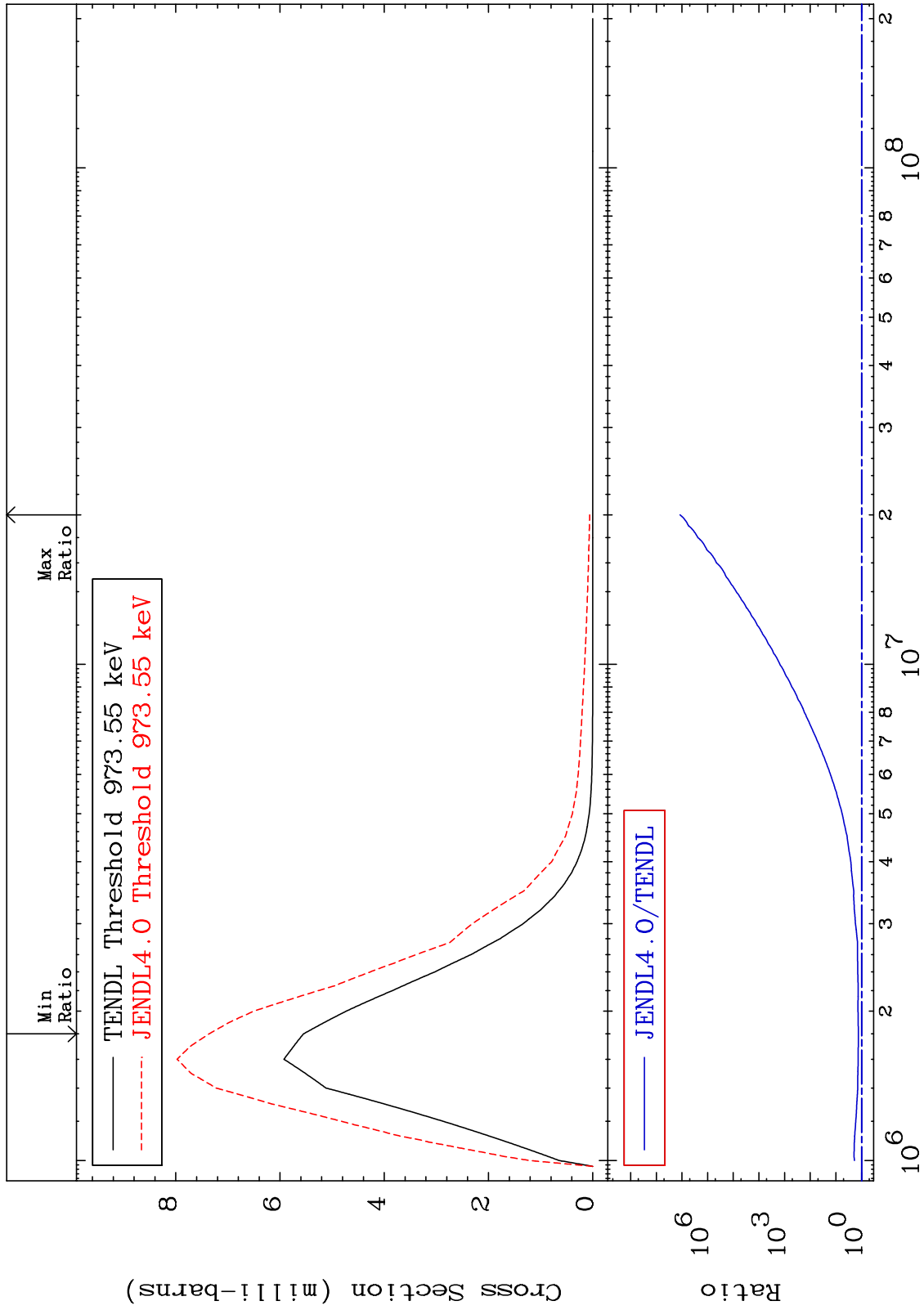
MAT 6240 MT= 72 (n,n') Level Cross Section 62-Sm-149 23.56 To 9999. %



MAT 6240 MT= 73 (n,n') Level Cross Section 62-Sm-149
-57.99 To 9999. %

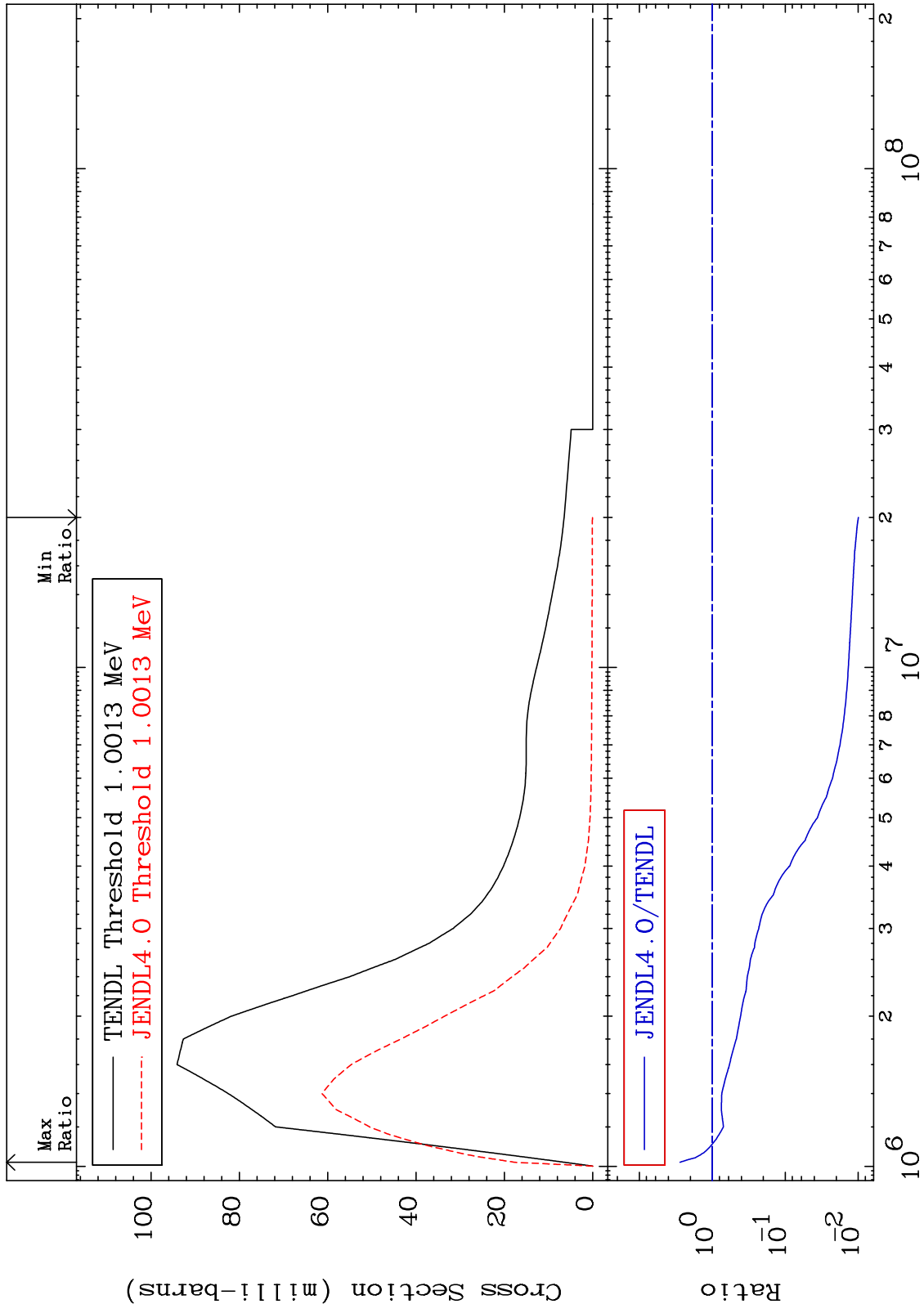


MAT 6240 MT= 74 (n,n') Level Cross Section 62-Sm-149
32.66 To 9999. %

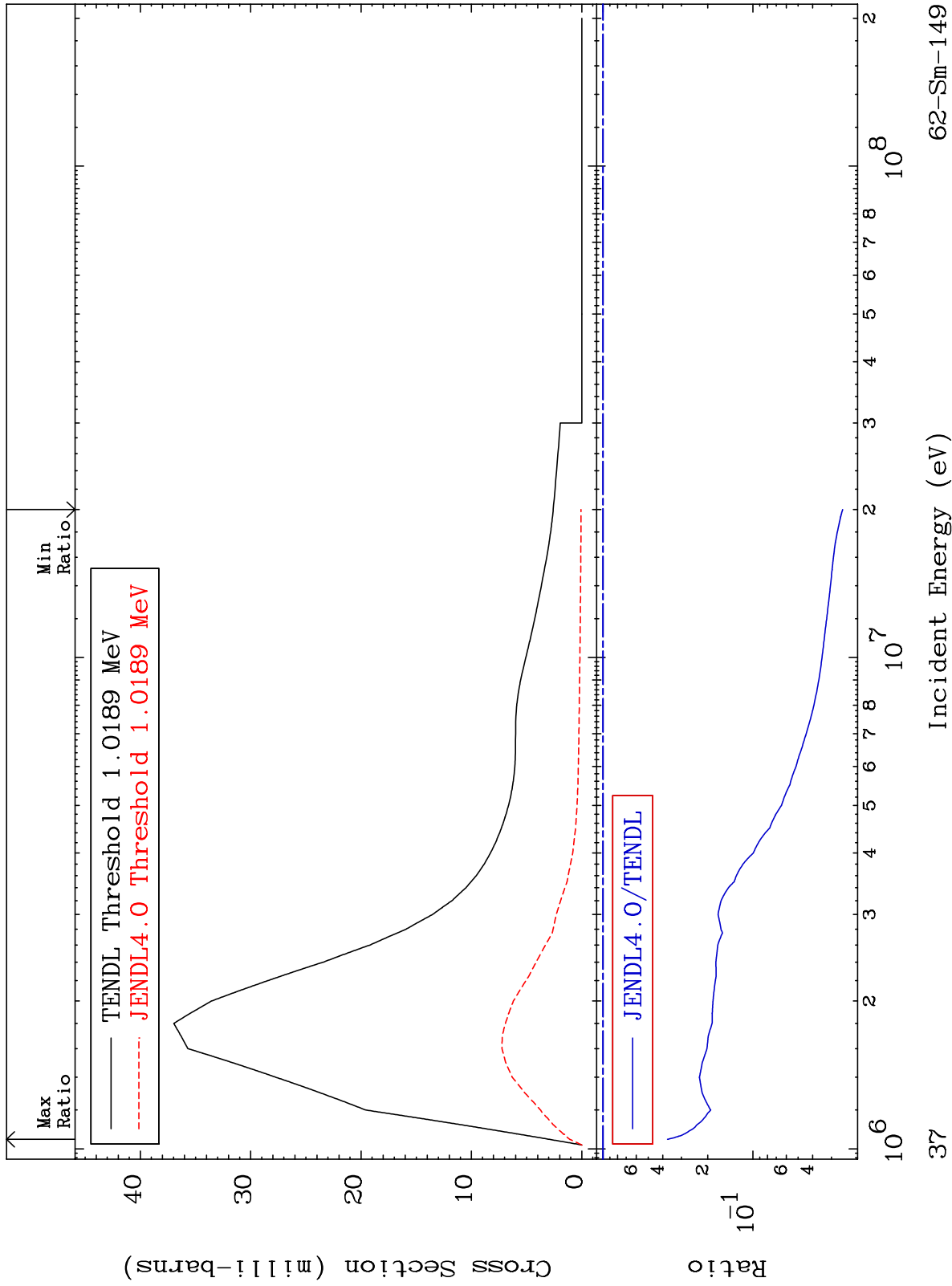


35 62-Sm-149

MAT 6240 MT= 75 (n,n') Level Cross Section 62-Sm-149 -99.01 To 177.3 %



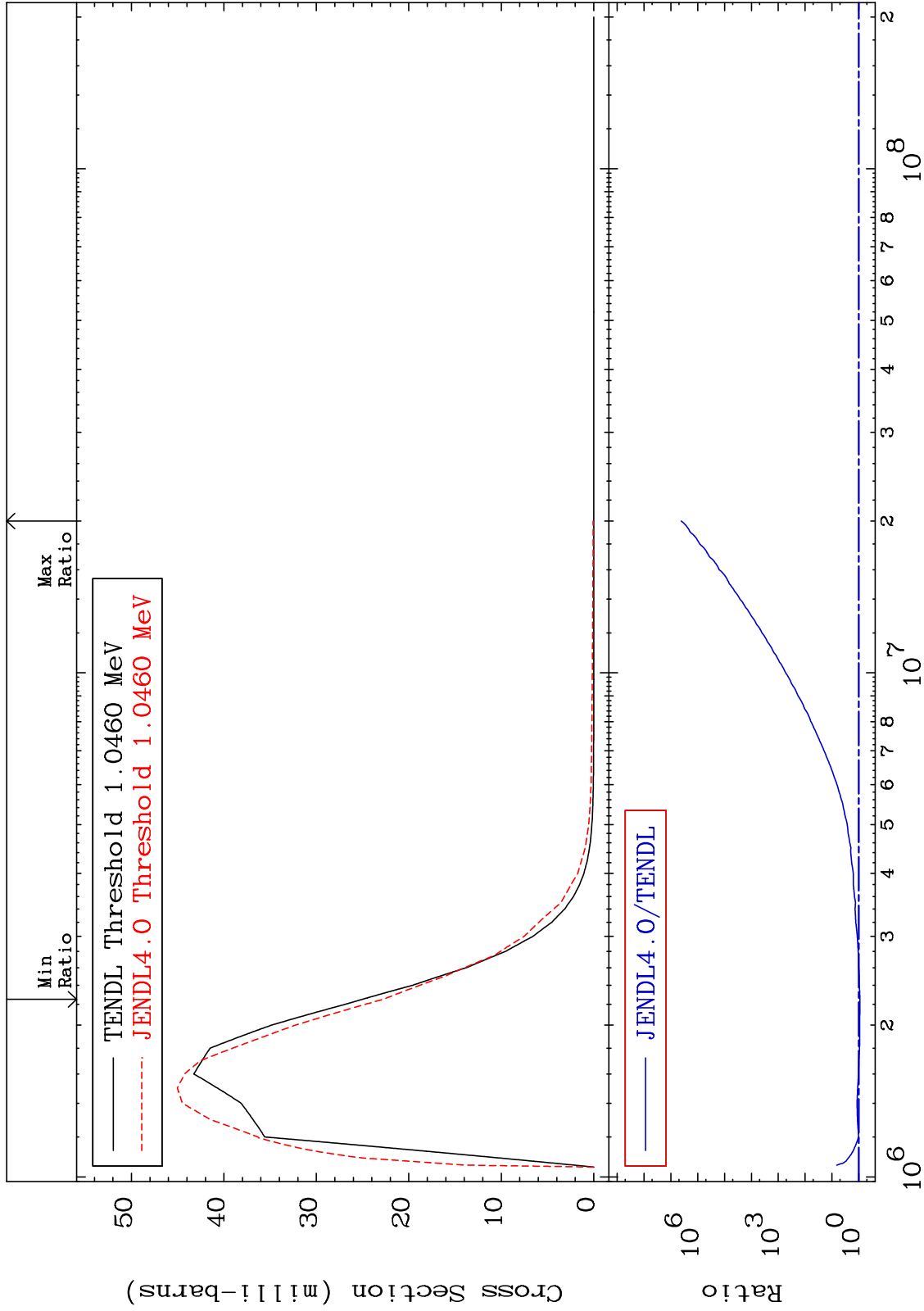
MAT 6240 MT= 76 (n,n') Level Cross Section 62-Sm-149 -97.48 To -62.88%



MAT 6240

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

62-Sm-149
-8.995 To 9999. %

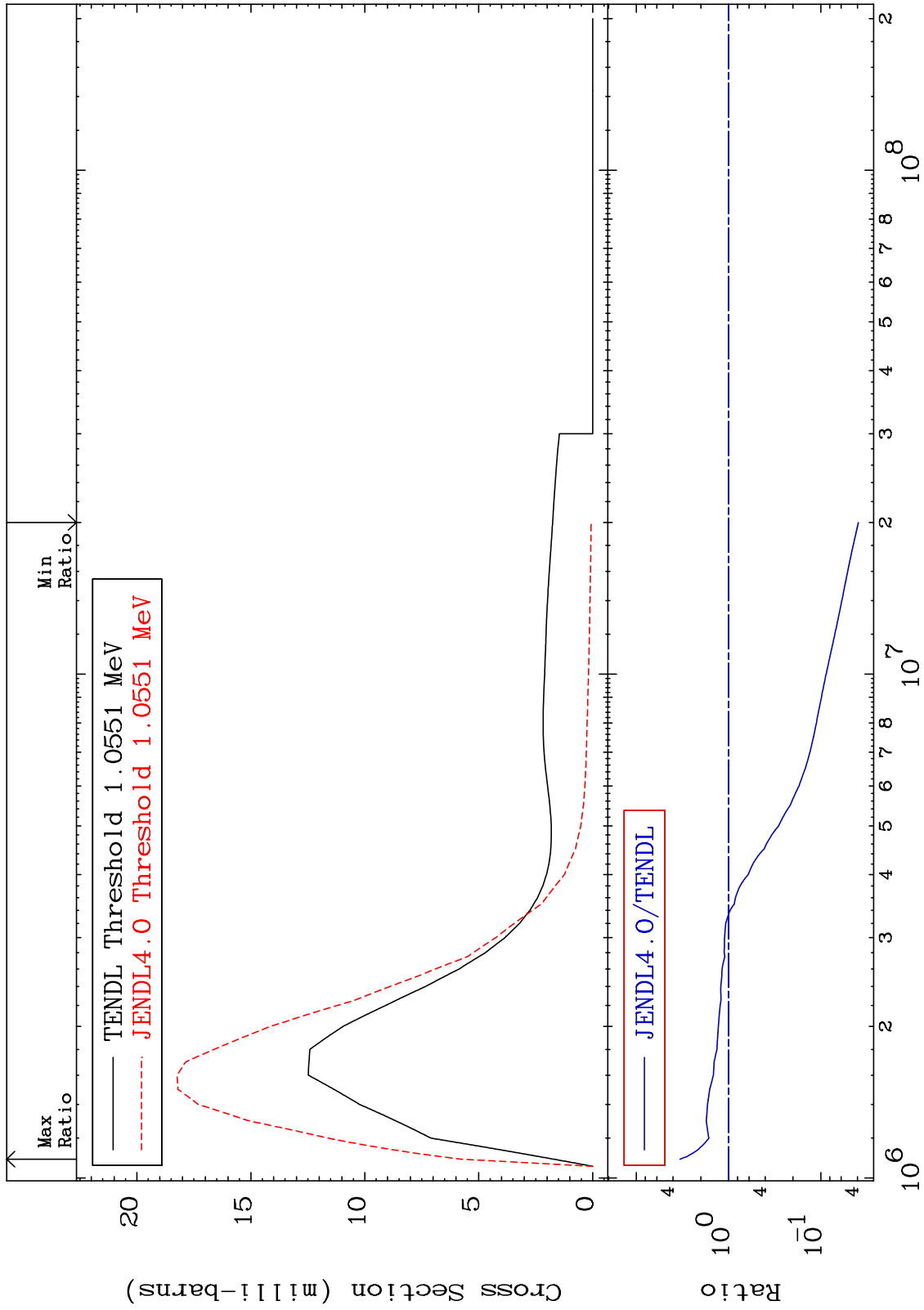


38

Incident Energy (eV)

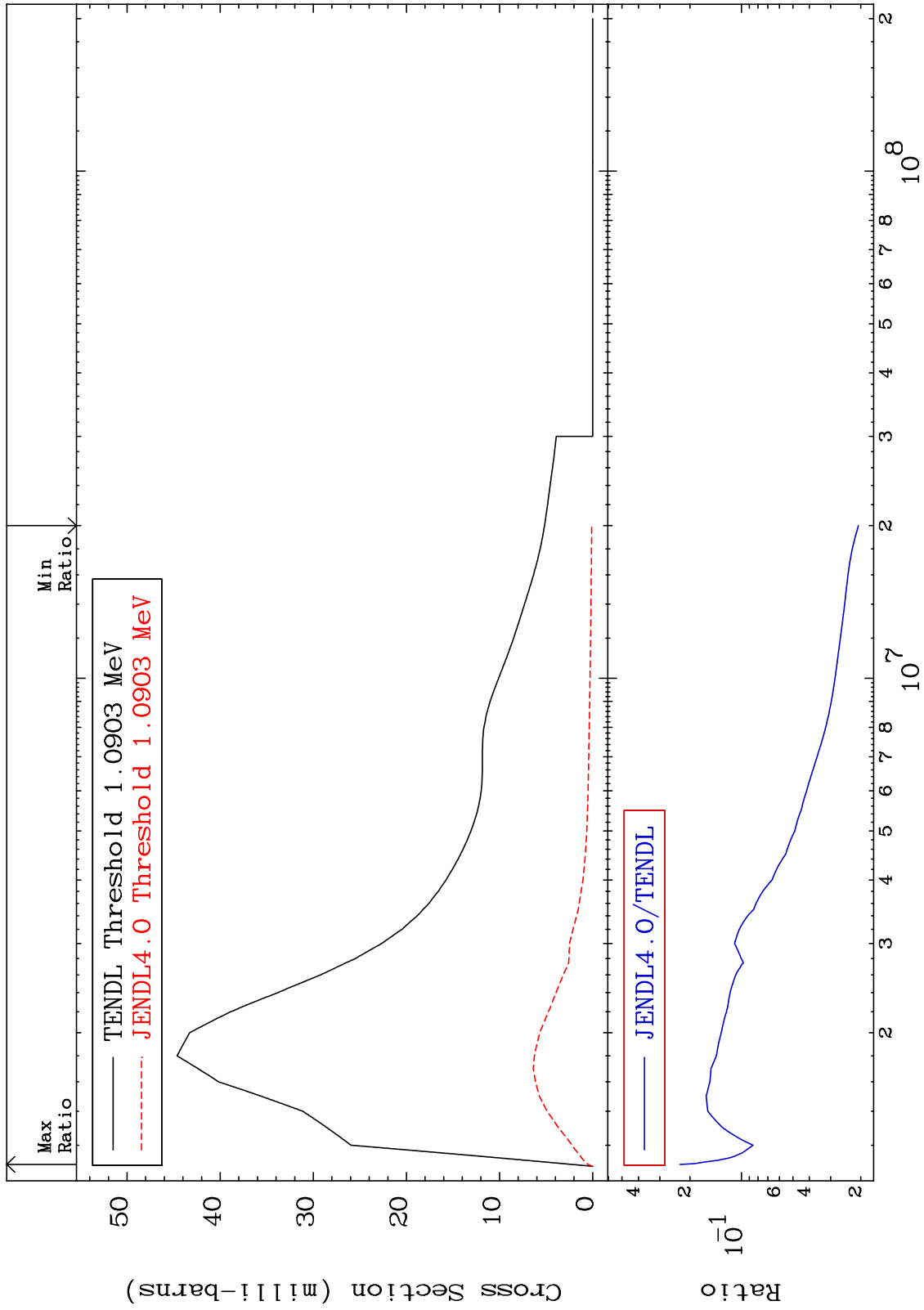
62-Sm-149

MAT 6240 MT= 78 (n,n') Level
Cross Section 62-Sm-149
-96.10 To 236.2 %



39 62-Sm-149

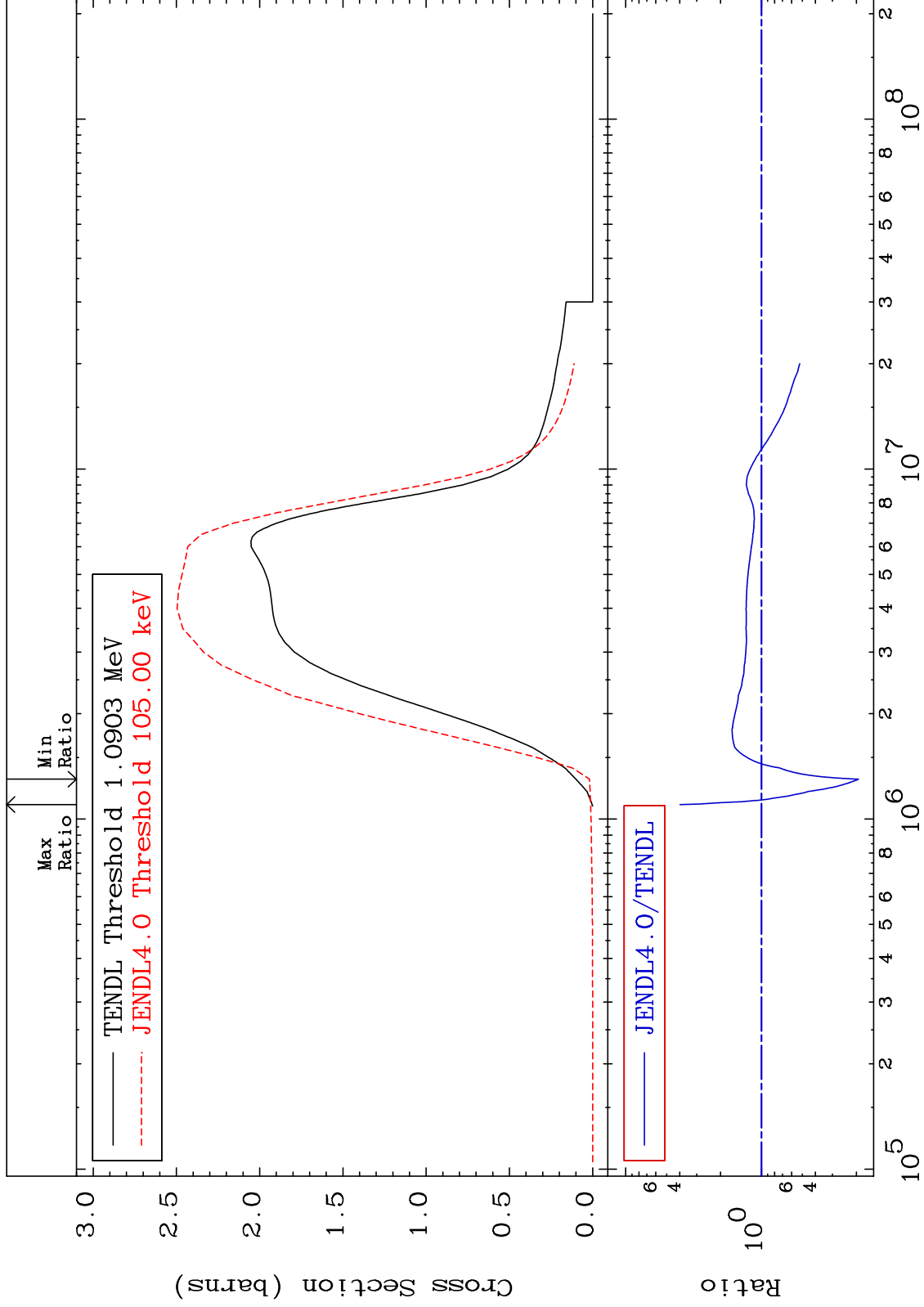
MAT 6240 MT= 79 (n,n') Level
Cross Section 62-Sm-149
-97.93 To -77.13%



MAT 6240

(n, n') Continuum
Cross Section

62-Sm-149
-80.70 To 298.1 %



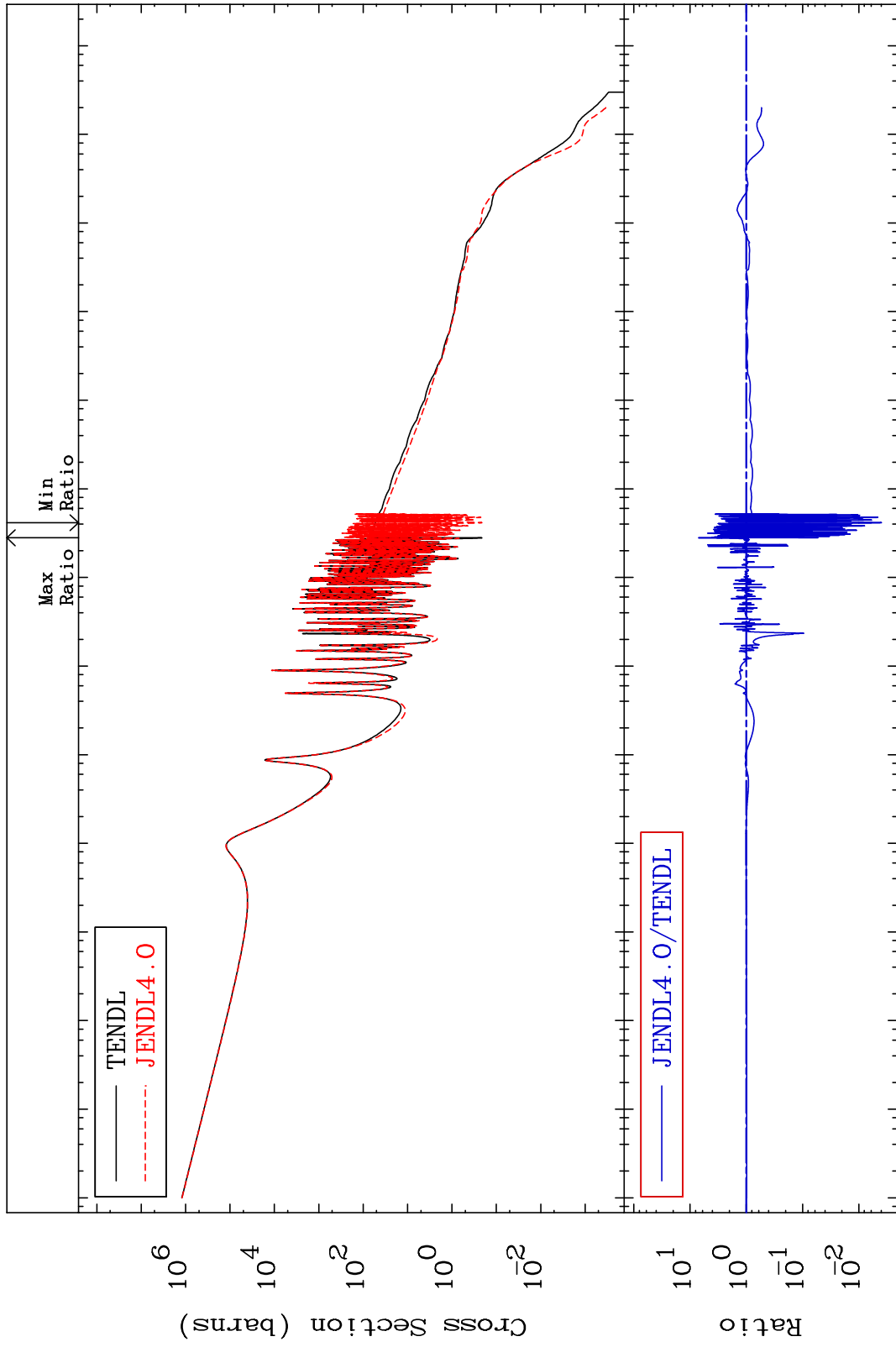
41

62-Sm-149

MAT 6240

(n, γ)
Cross Section

62-Sm-149
-99.61 To 612.4 %



42

Incident Energy (eV)

62-Sm-149

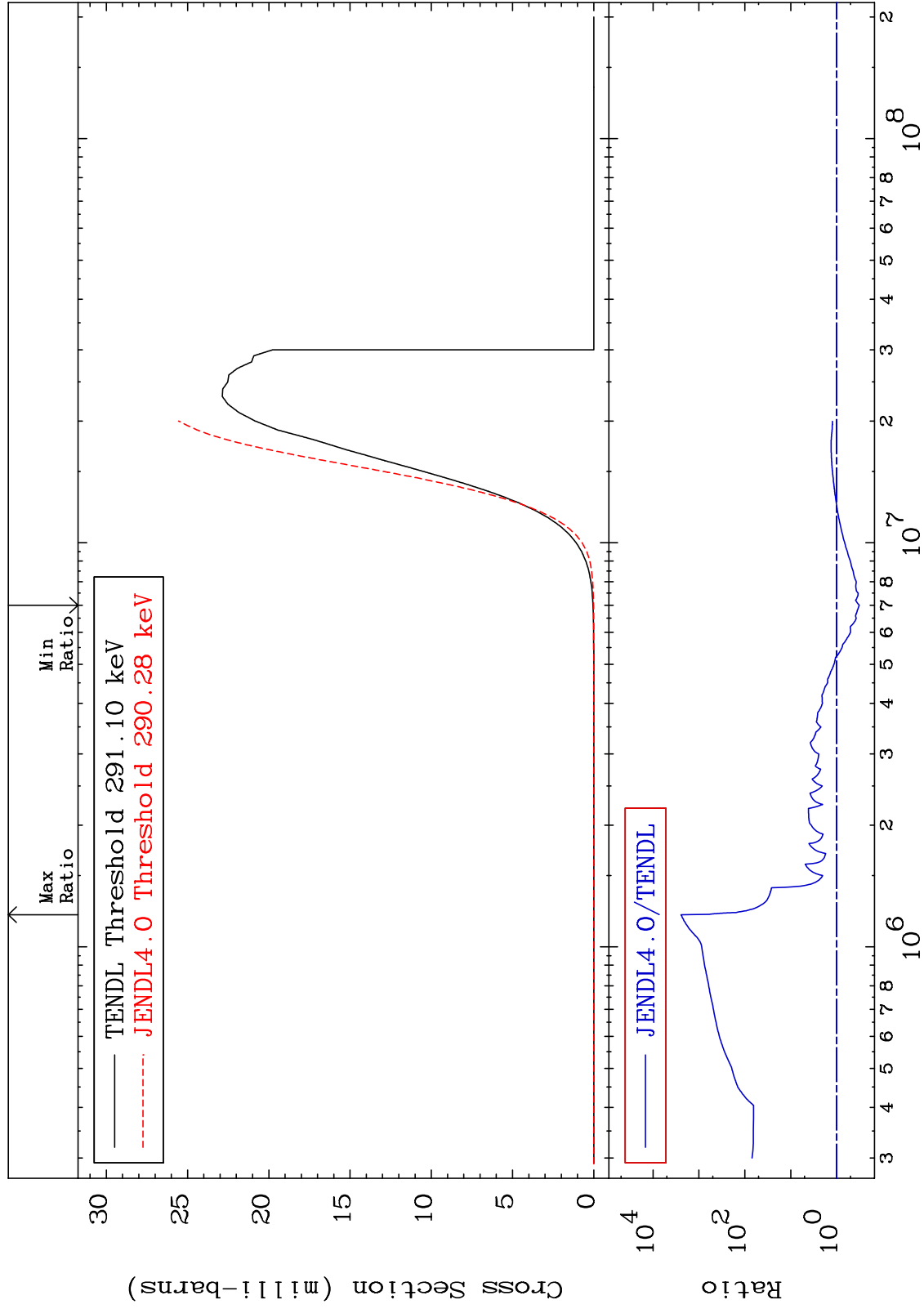
MAT 6240

(n, p)

62-Sm-149

-67.94 To 9999. %

Cross Section



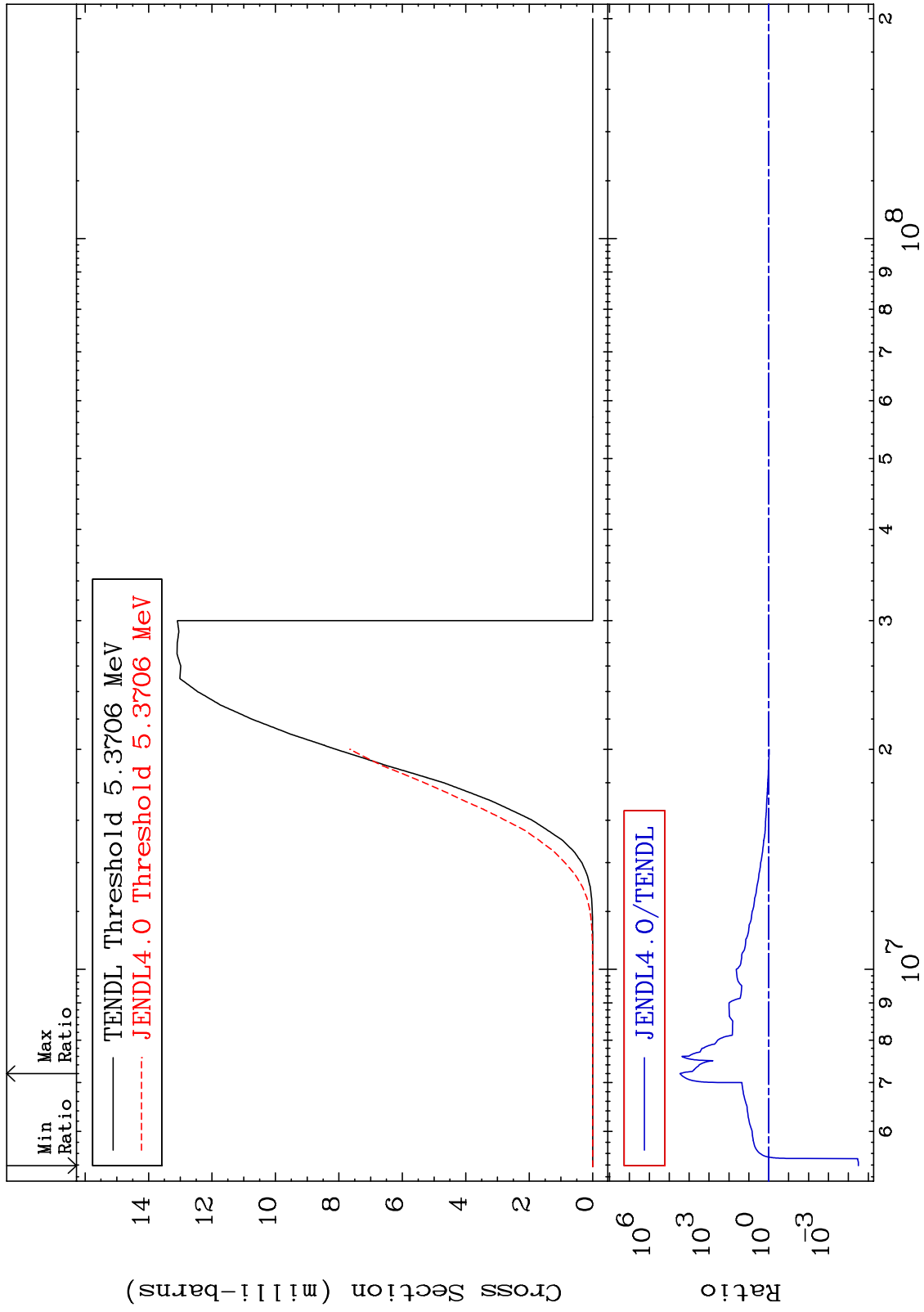
MAT 6240

(n, d)

62-Sm-149

Cross Section

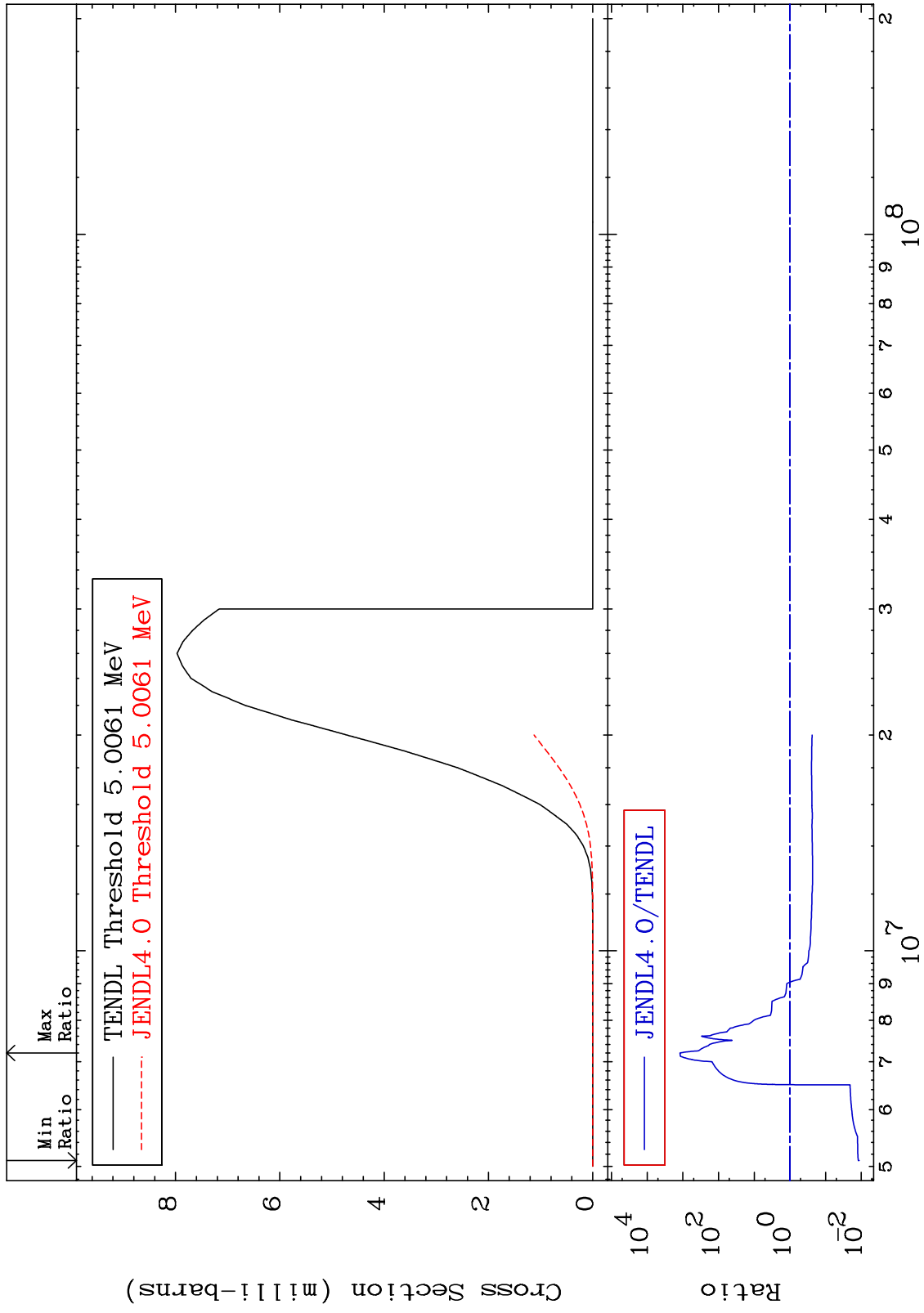
-100.0 To 9999. %



62-Sm-149

Incident Energy (eV)

MAT 6240 (n, t) Cross Section 62-Sm-149 -98.80 To 9999. %



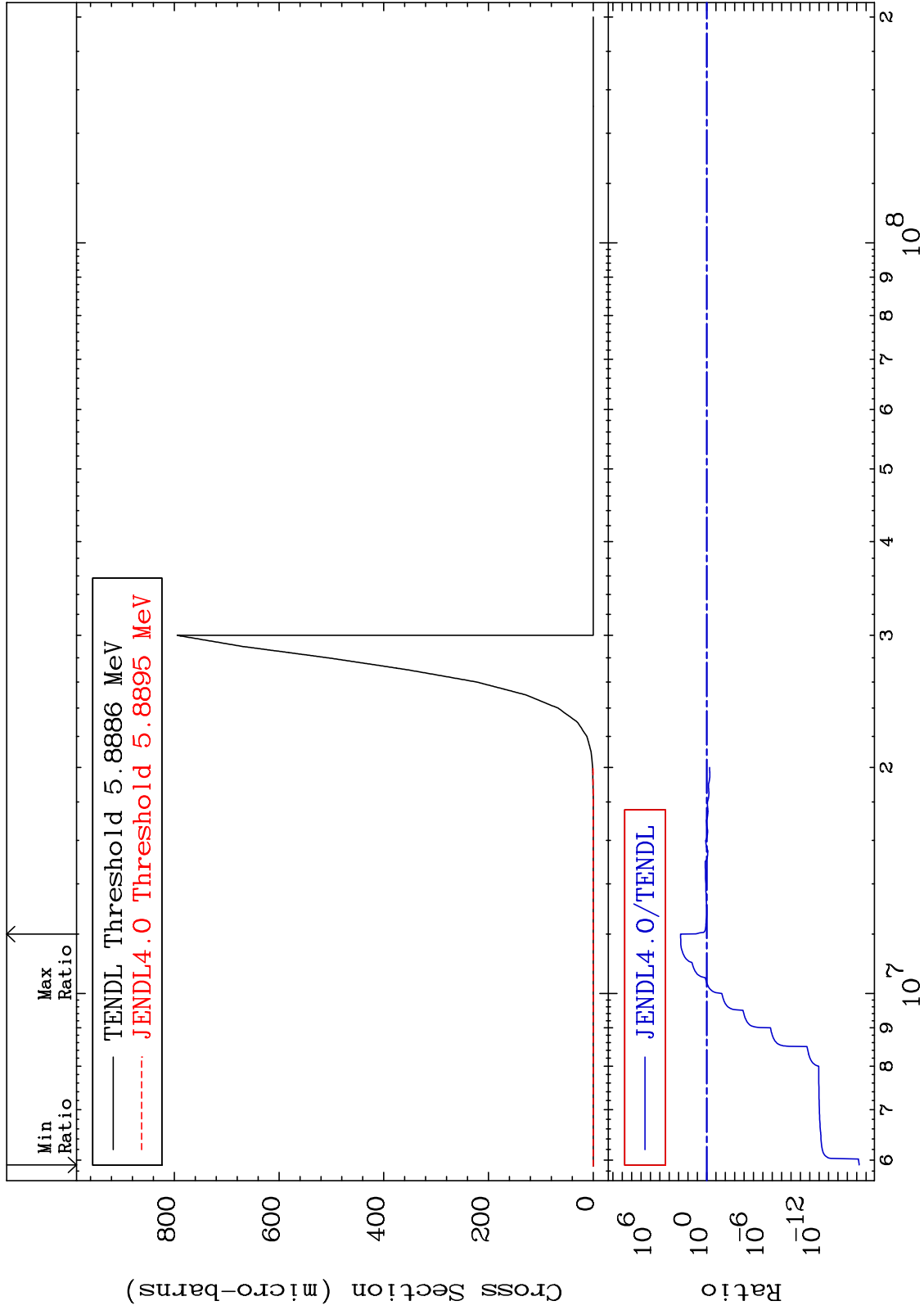
MAT 6240

(n, He-3)

62-Sm-149

Cross Section

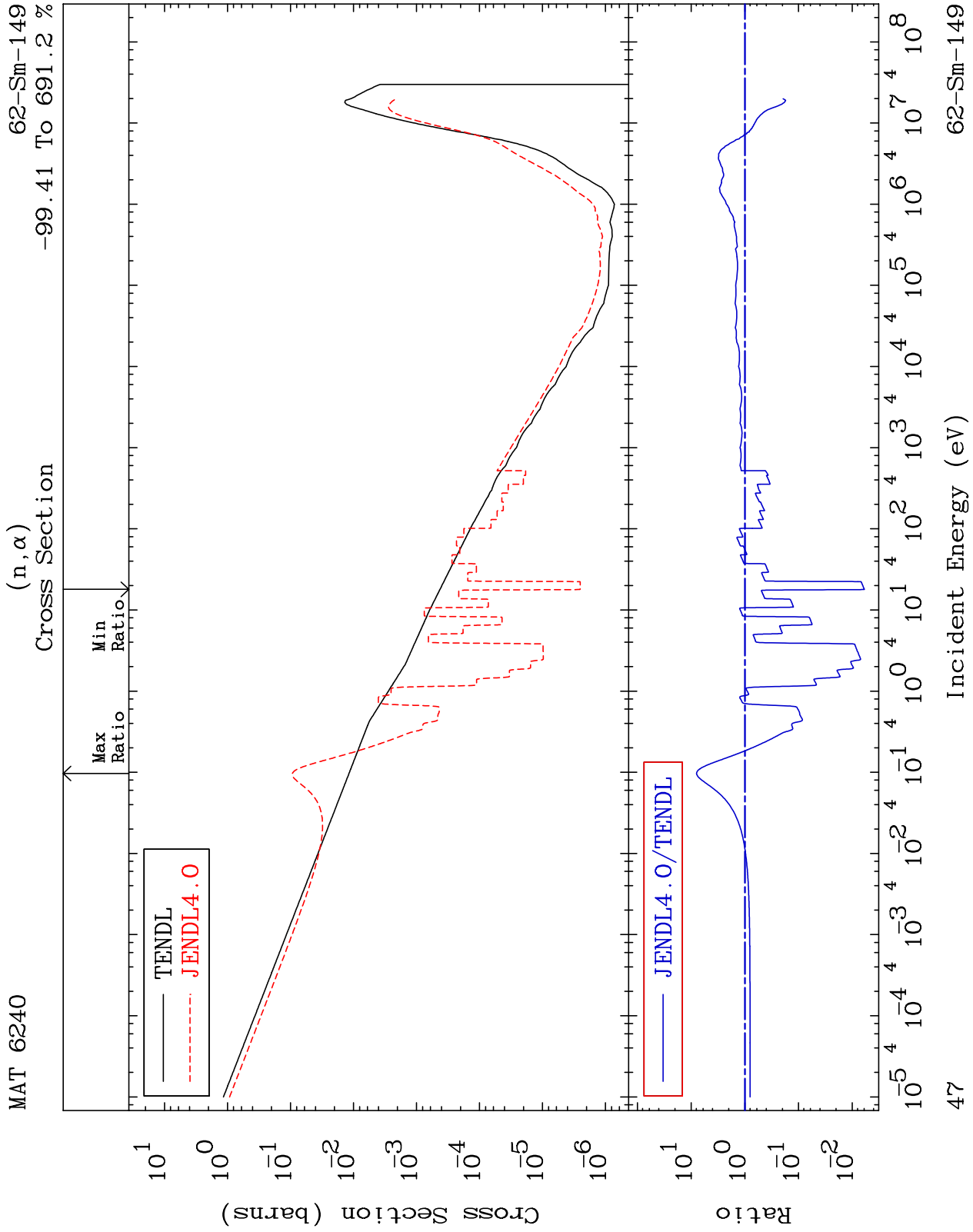
-100.0 To 9999. %



62-Sm-149

Incident Energy (eV)

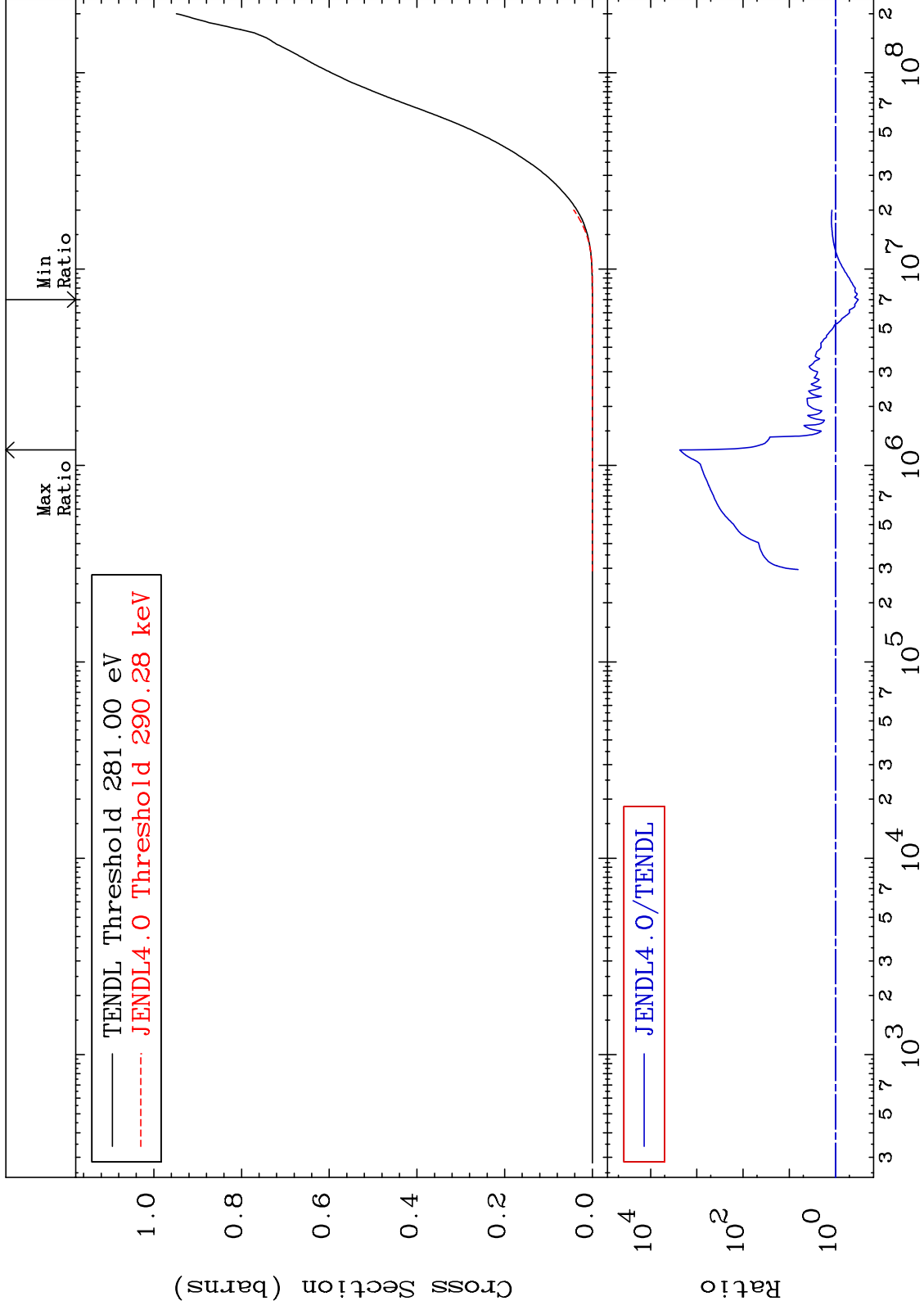
46



MAT 6240

Hydrogen Production
Cross Section

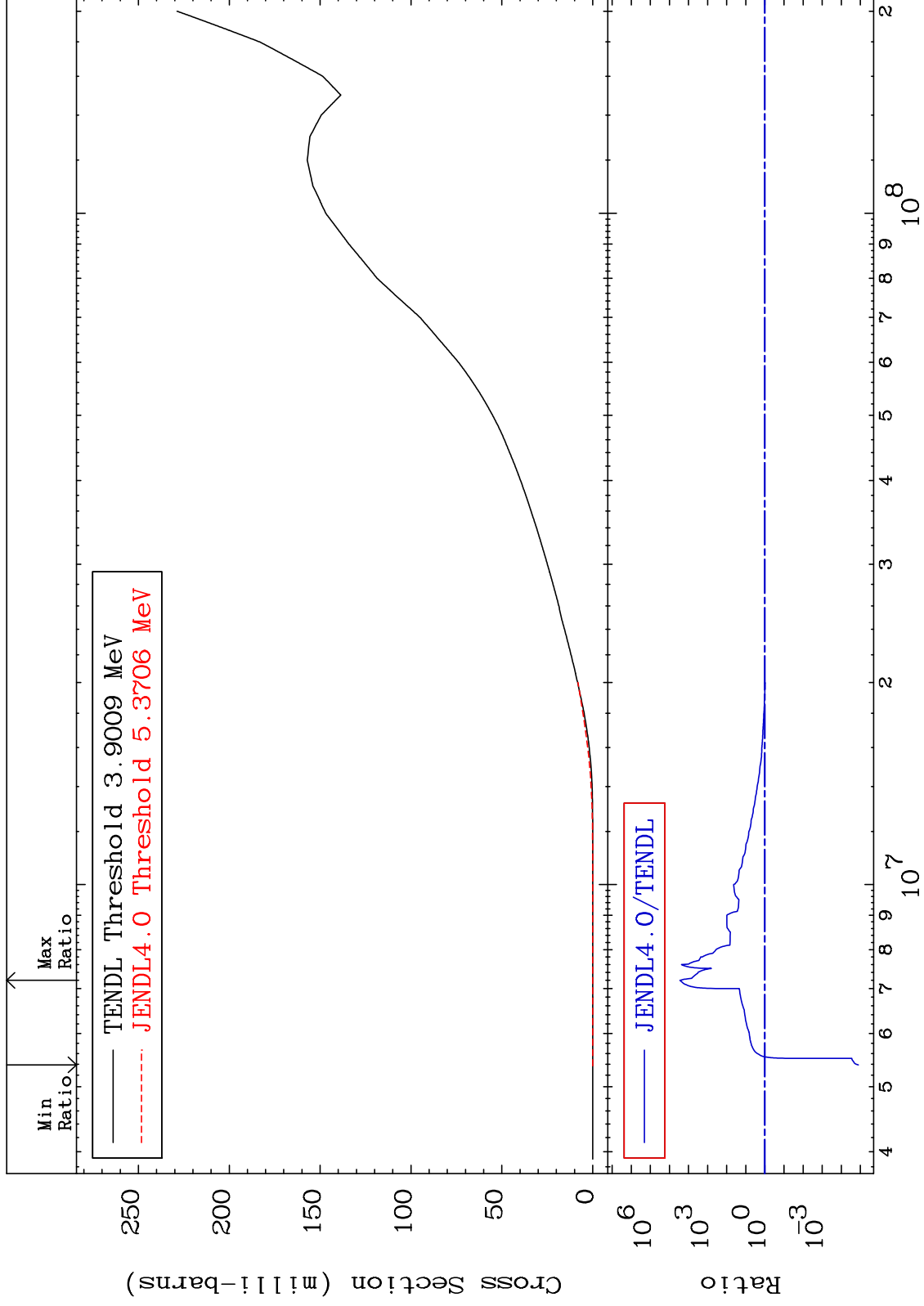
62-Sm-149
-67.94 To 9999. %



MAT 6240

Deuterium Production
Cross Section

62-Sm-149
-100.0 To 9999. %



49

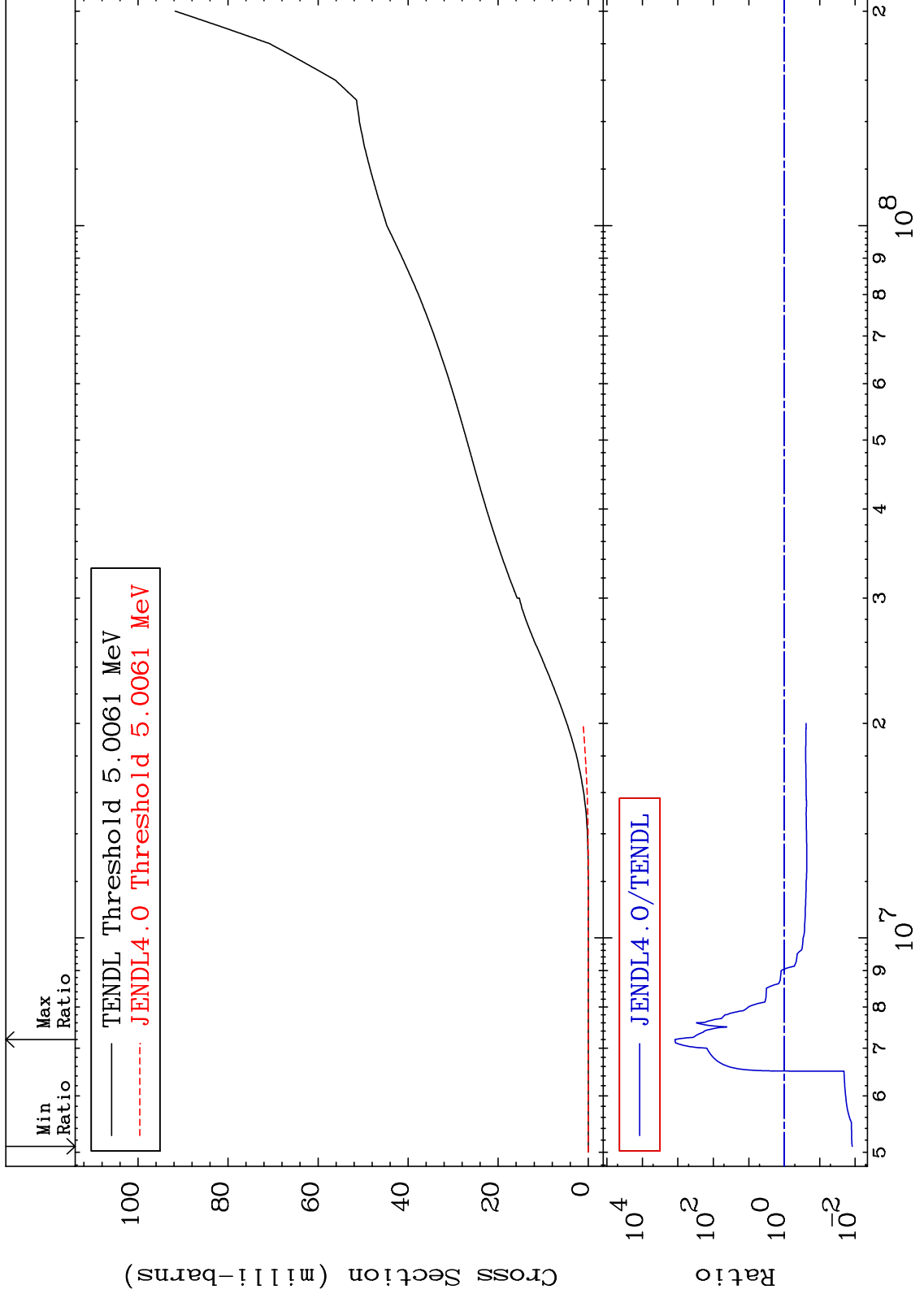
Incident Energy (eV)

62-Sm-149

MAT 6240

Tritium Production
Cross Section

62-Sm-149
-98.80 To 9999. %



50

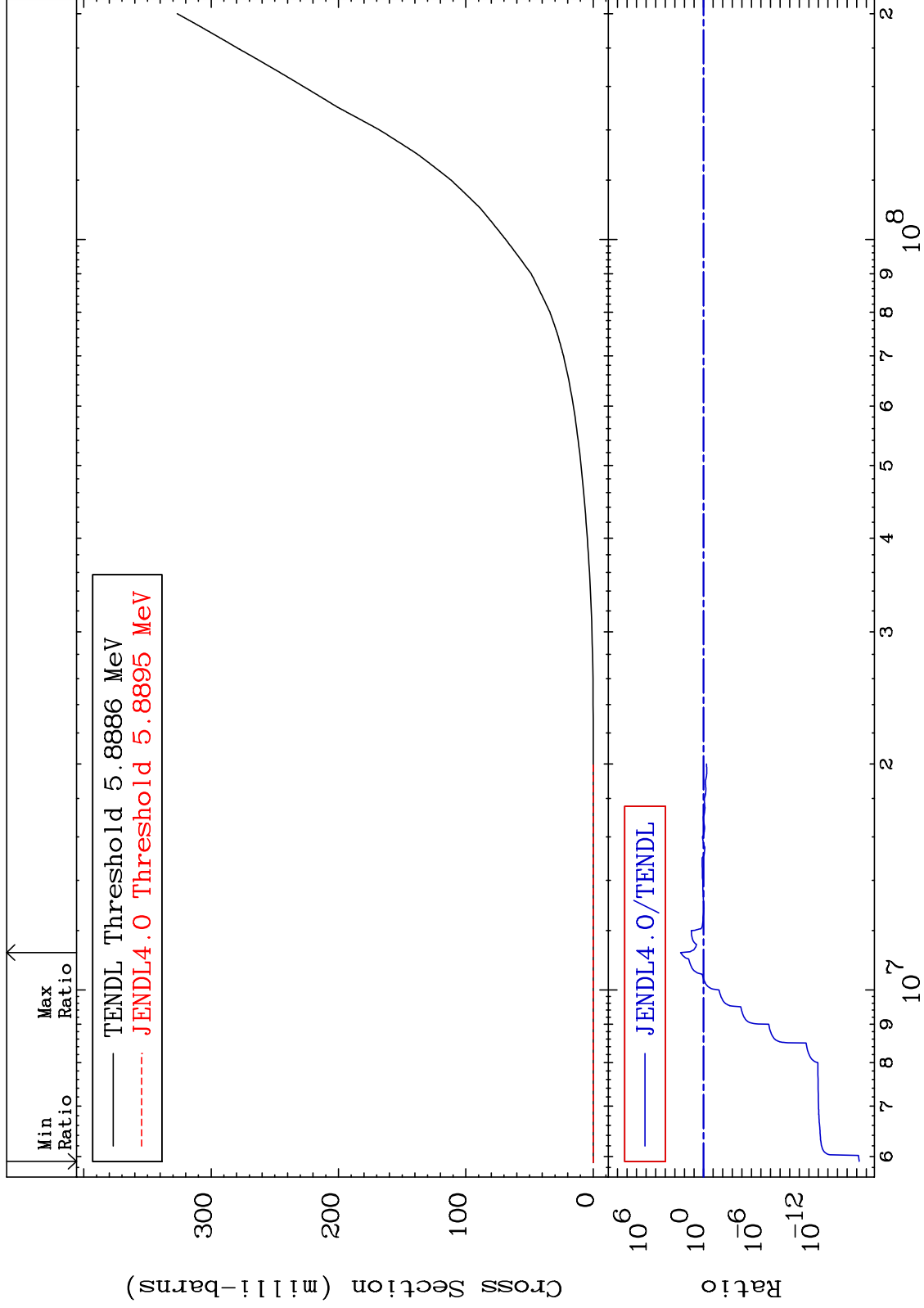
Incident Energy (eV)

62-Sm-149

MAT 6240

He-3 Production
Cross Section

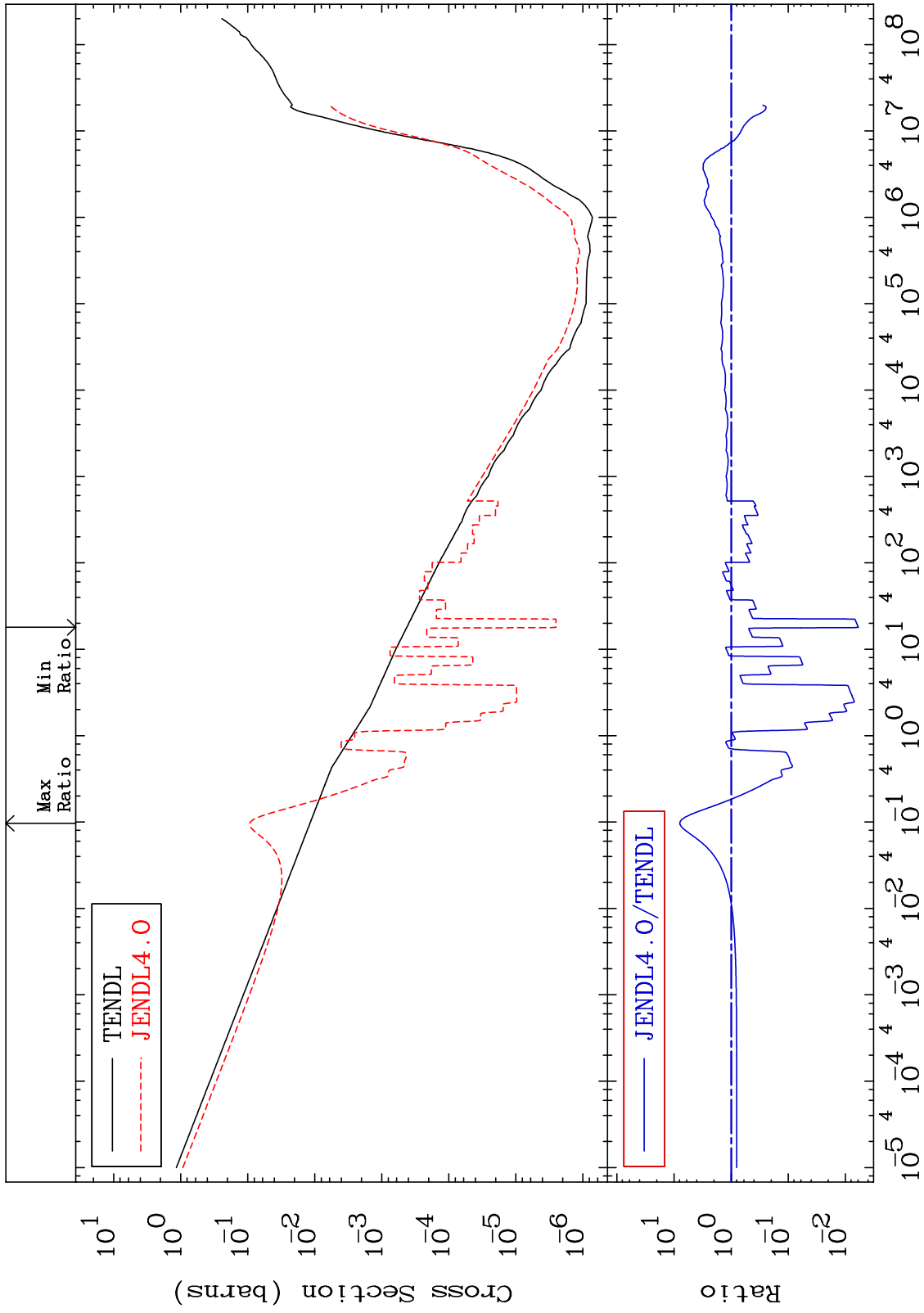
62-Sm-149
-100.0 To 9999. %



MAT 6240

He-4 Production
Cross Section

62-Sm-149
-99.41 To 691.2 %



52

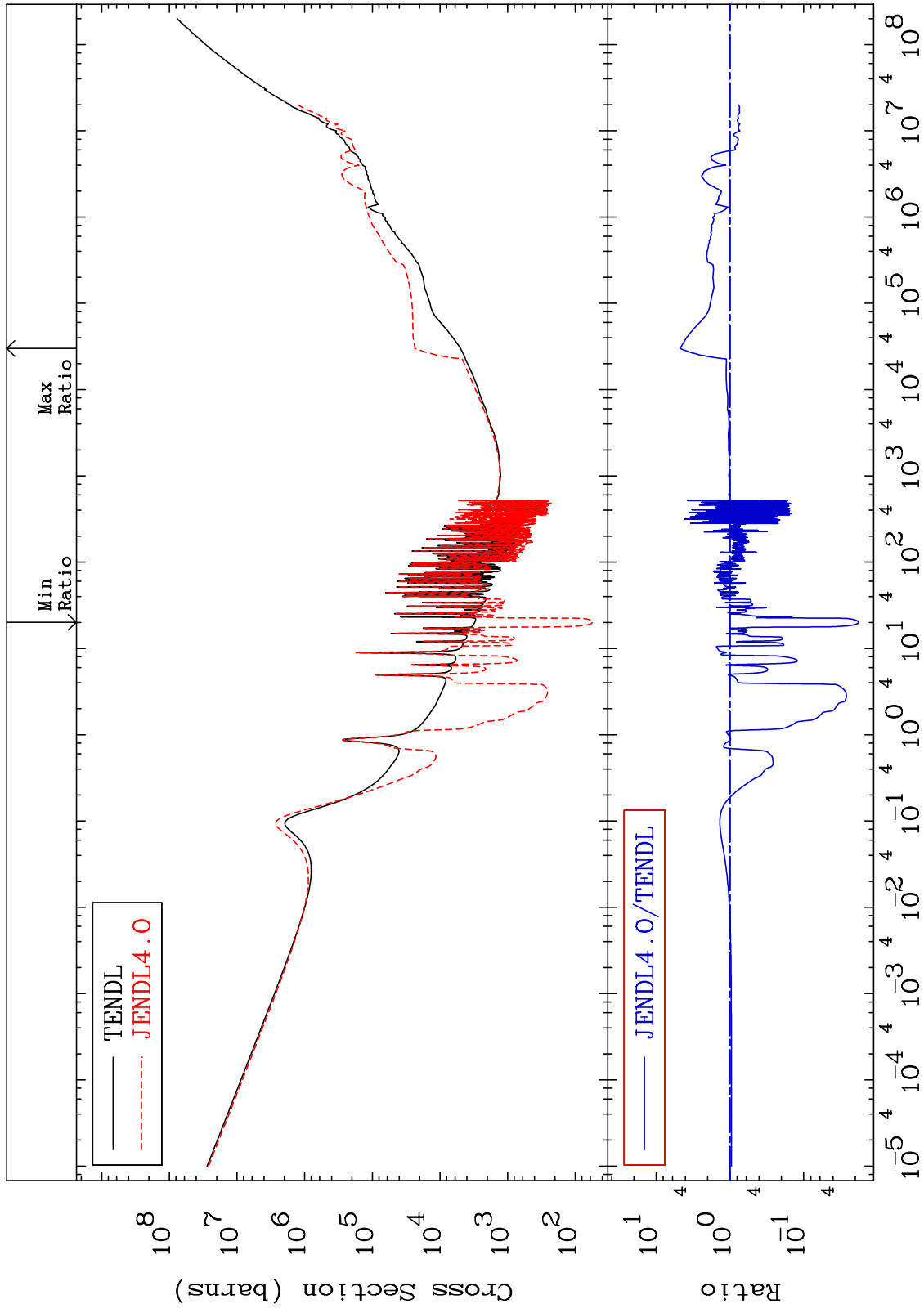
Incident Energy (eV)

62-Sm-149

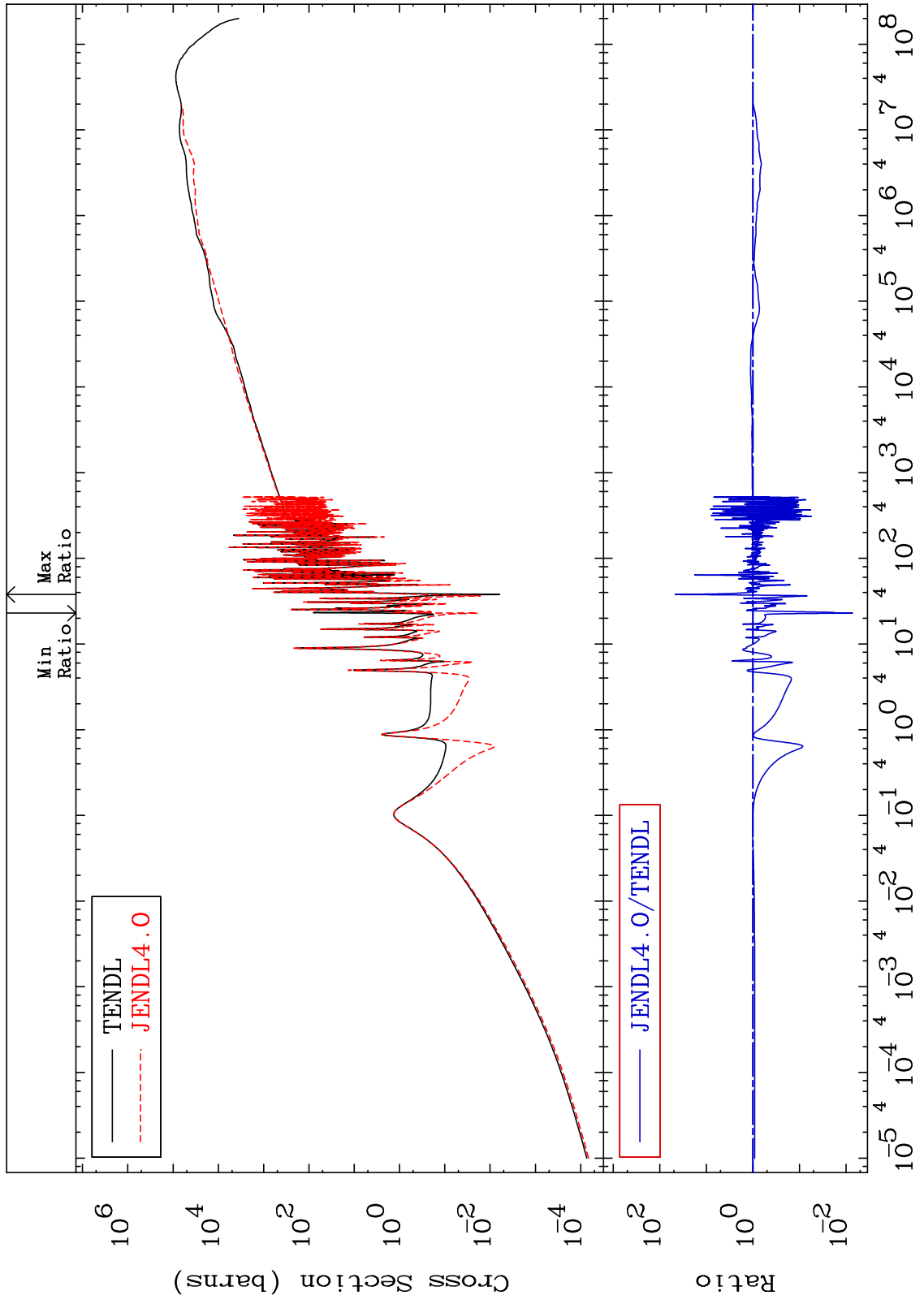
MAT 6240

Kerma total (eV-barns)
Cross Section

62-Sm-149
-98.19 To 373.7 %



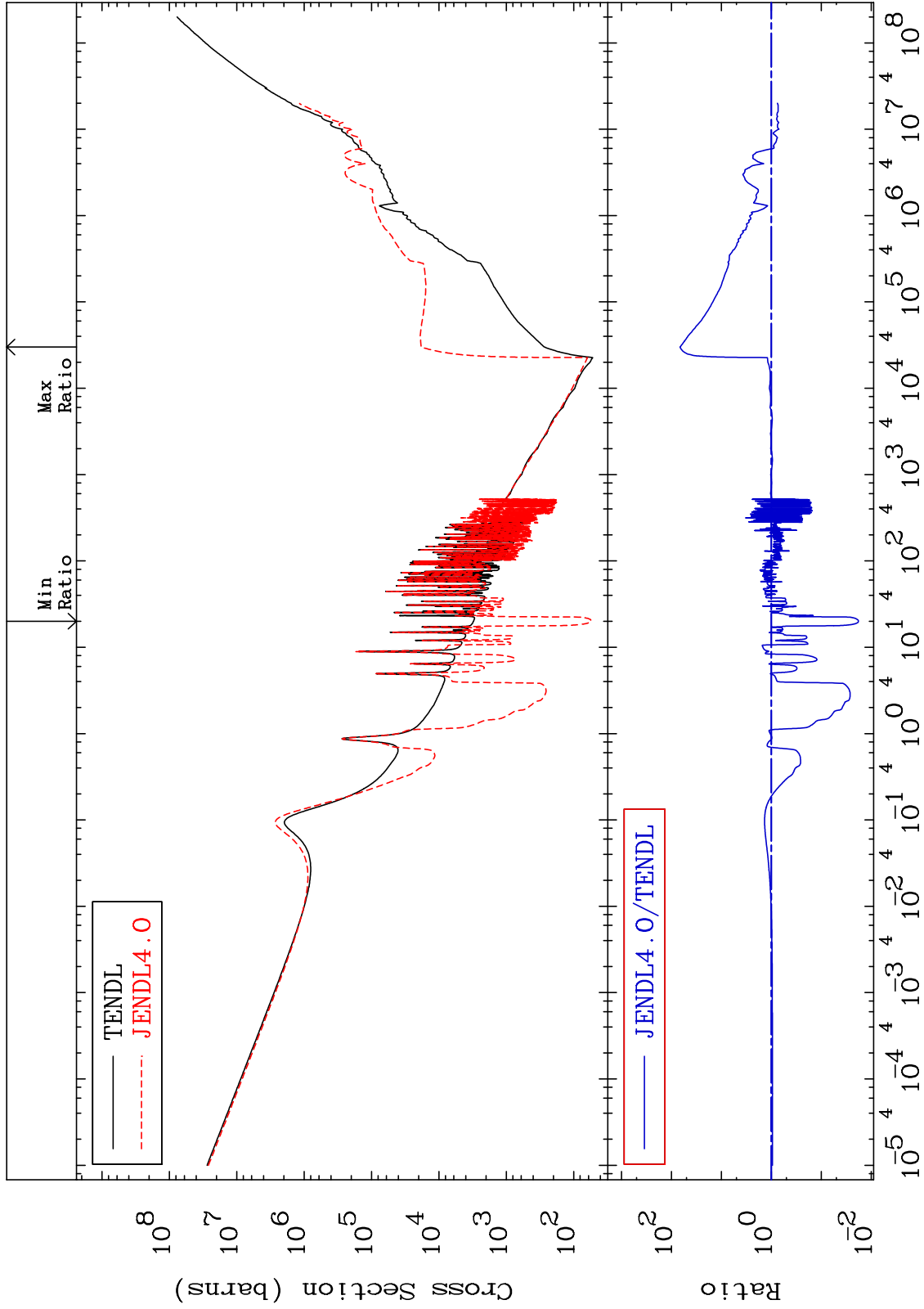
MAT 6240 62-Sm-149 -99.27 To 4576. %
 Kerma elastic Cross Section



MAT 6240

Kerma non-elastic (all but mt2)
Cross Section

62-Sm-149
-98.20 To 6651. %



55

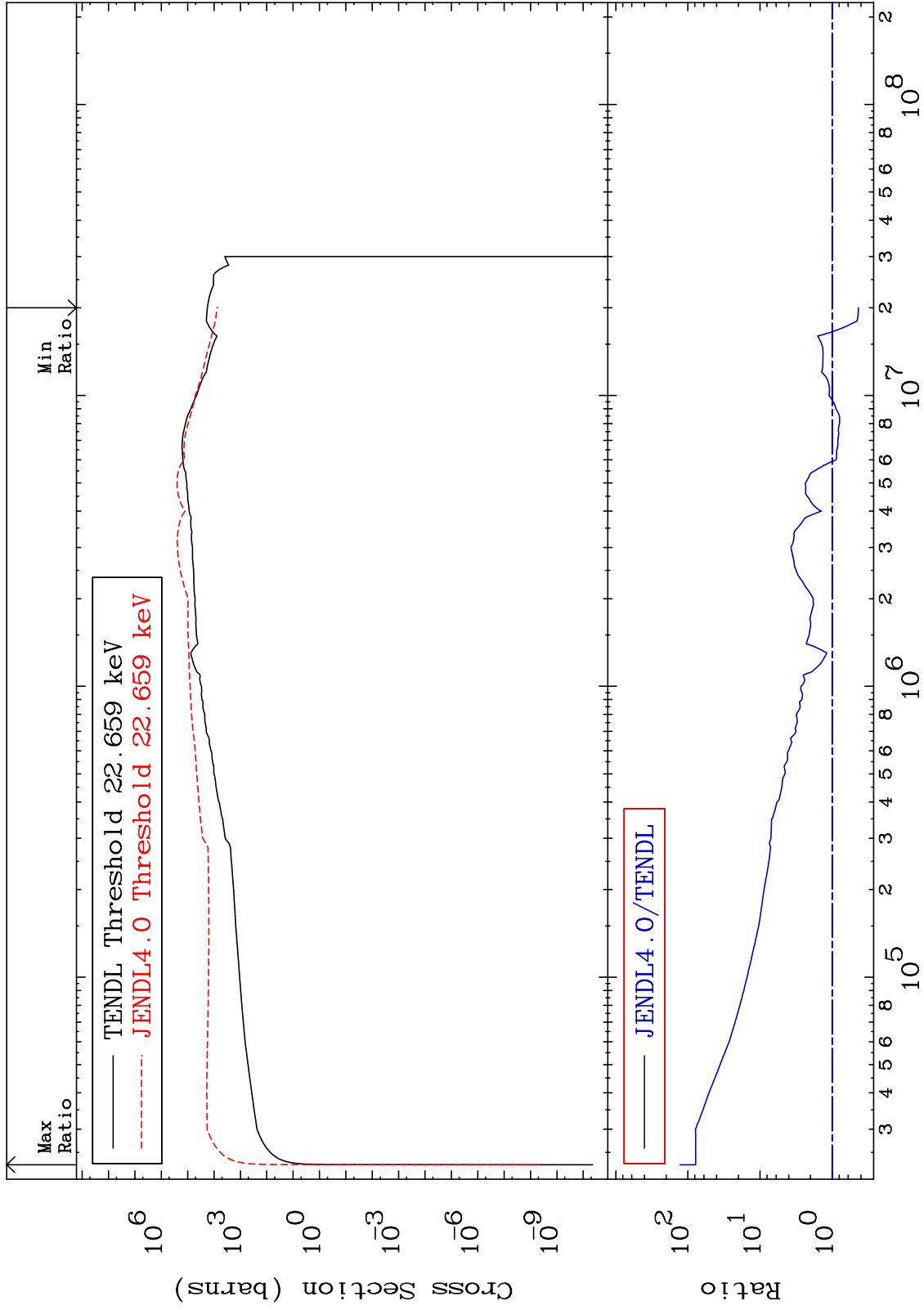
Incident Energy (eV)

62-Sm-149

MAT 6240

Kerma inelastic (mt51-91)
Cross Section

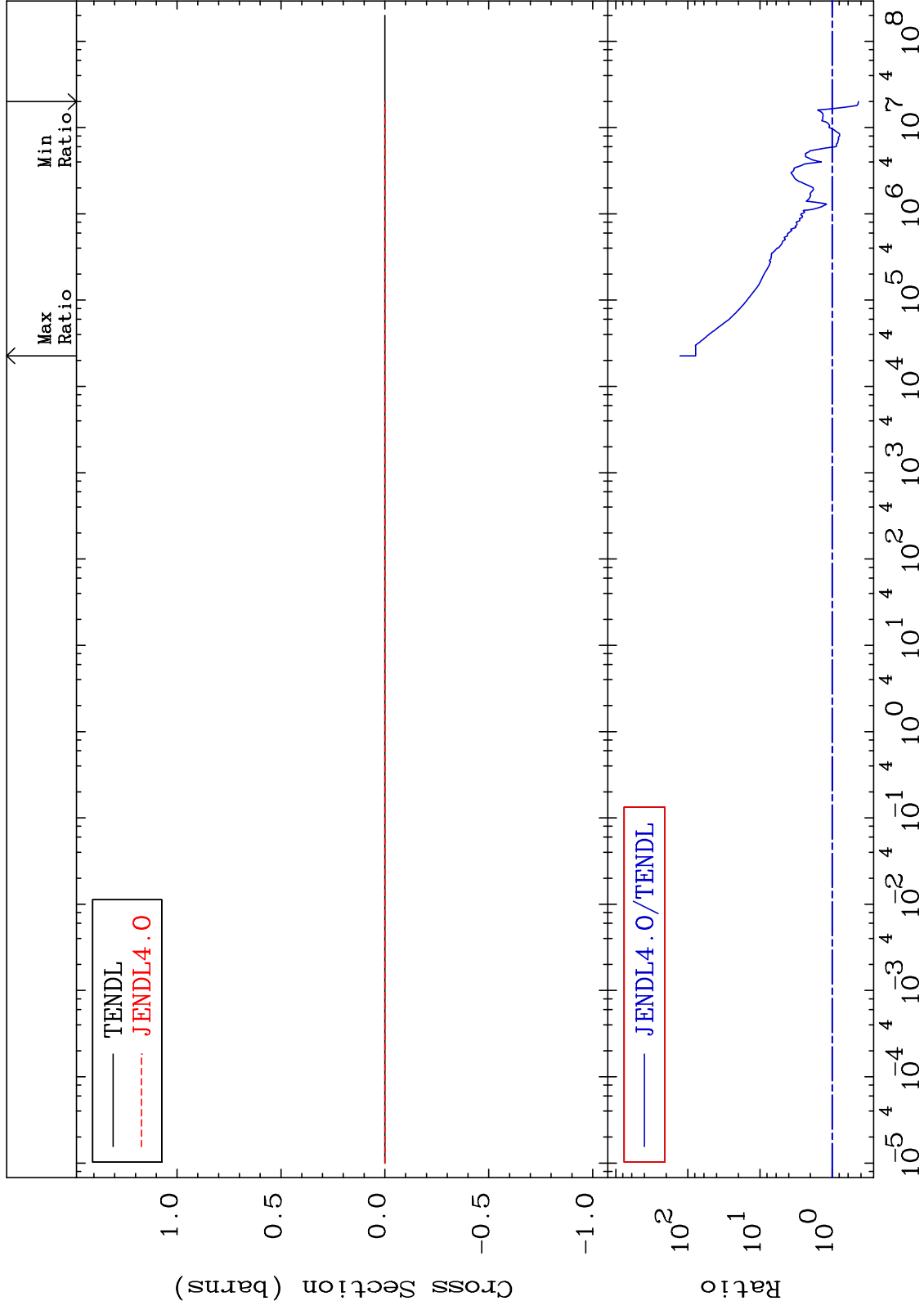
62-Sm-149
-56.67 To 9999. %



MAT 6240

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

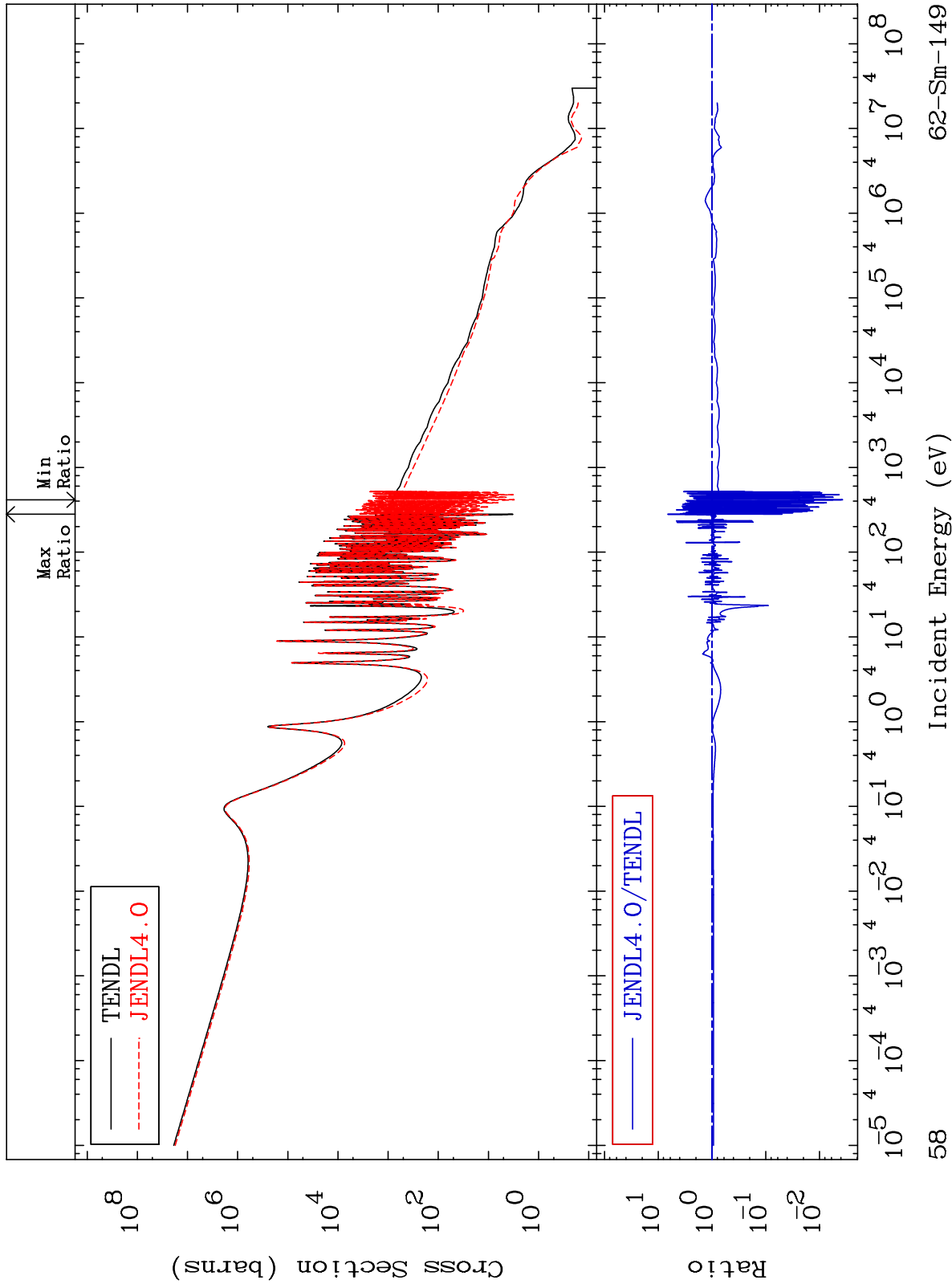
62-Sm-149
-56.67 To 9999. %



MAT 6240

Kerma capture (mt102)
Cross Section

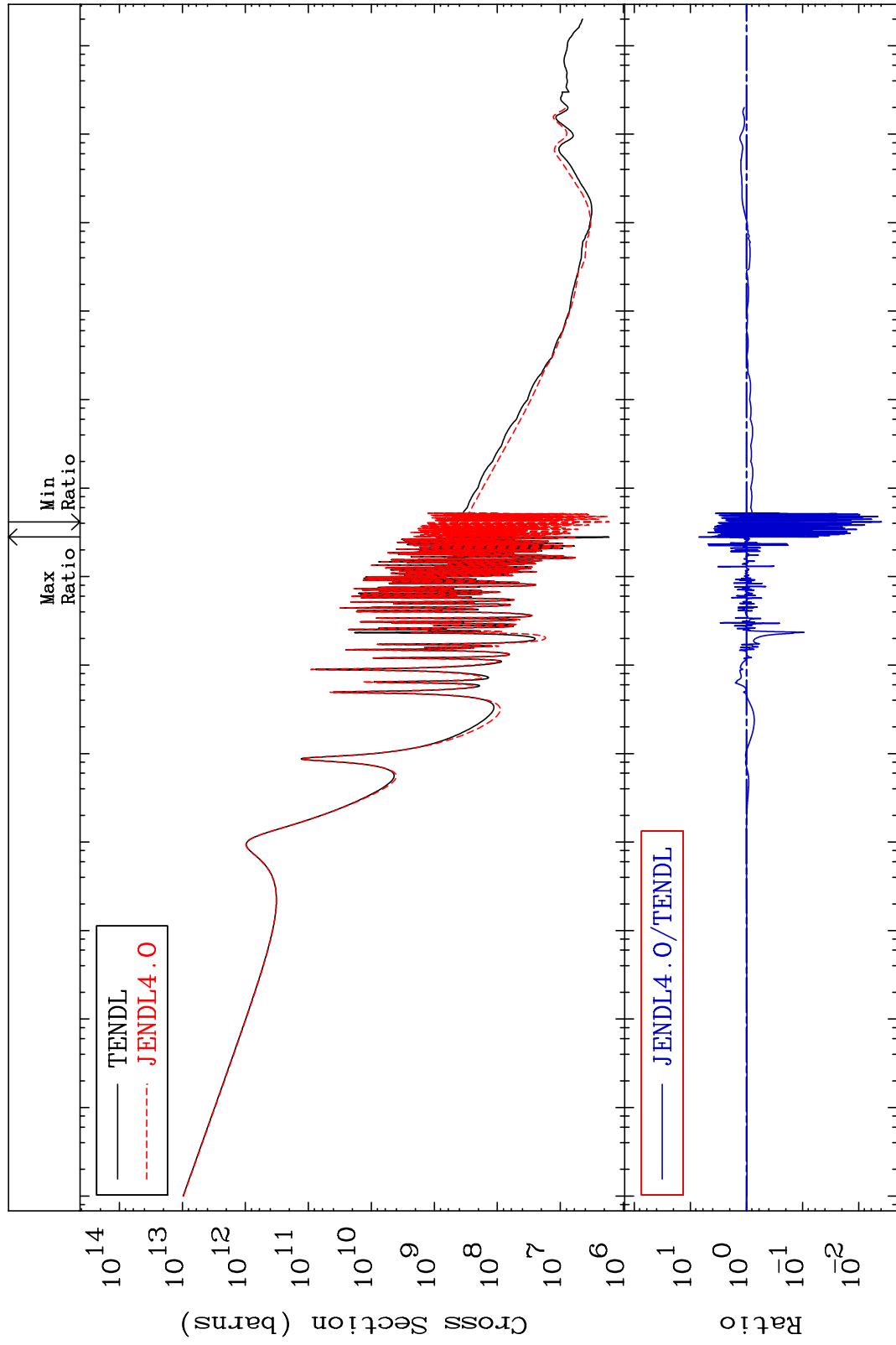
62-Sm-149
-99.63 To 573.0 %



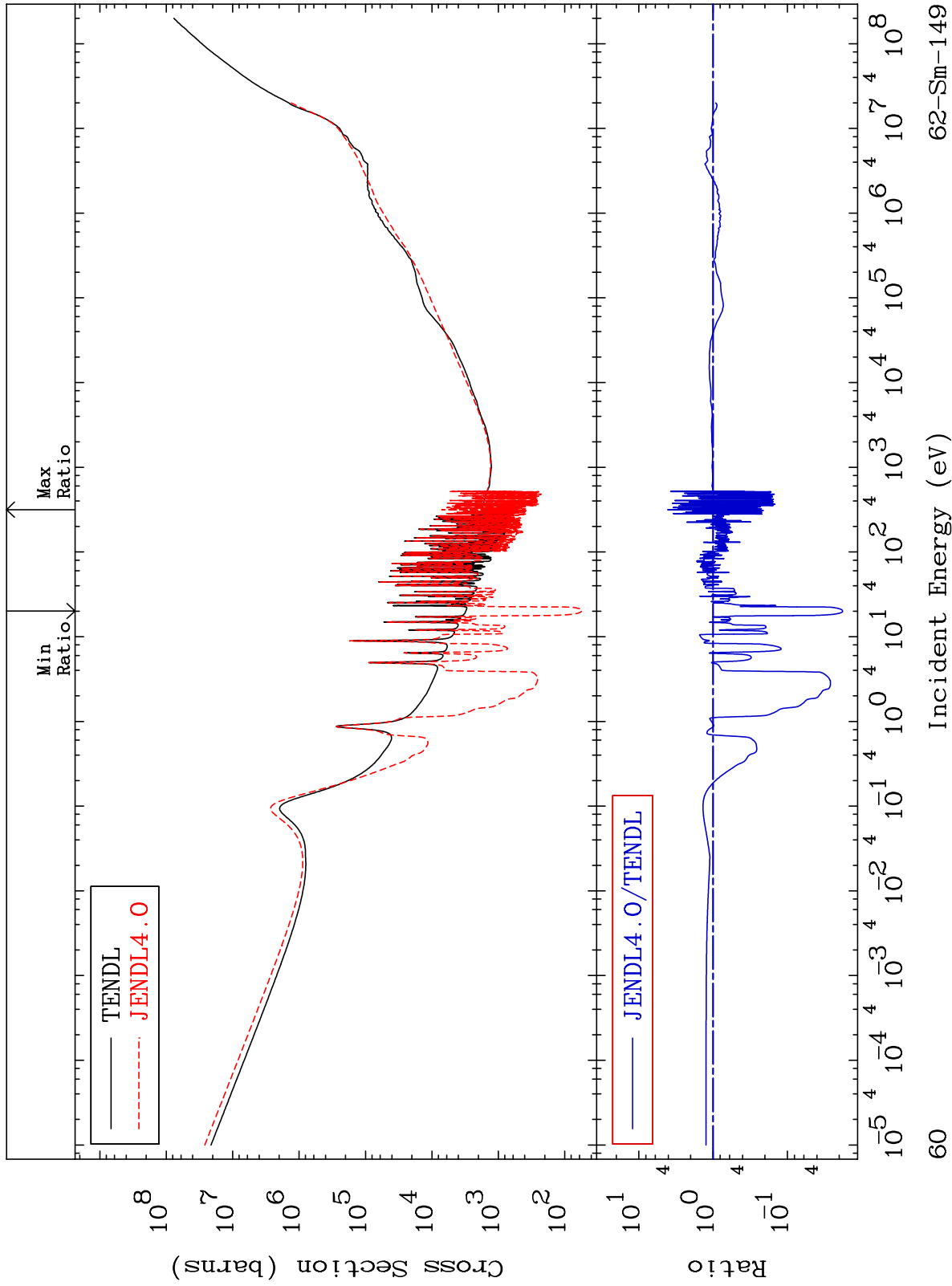
MAT 6240

Total photon (eV-barns)
Cross Section

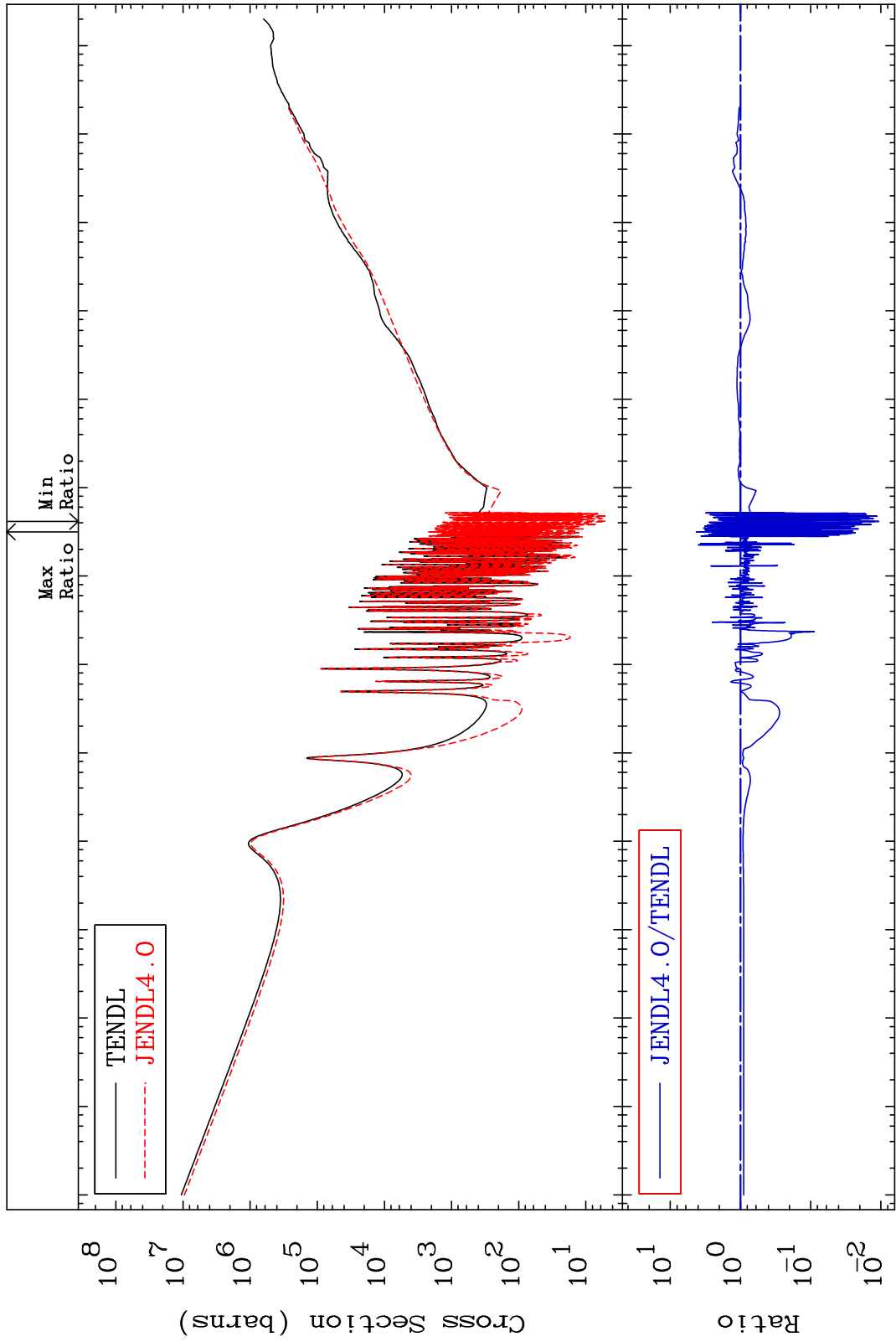
62-Sm-149
-99.61 To 610.5 %



MAT 6240 Total kinematic kerma (high limit) 62-Sm-149
Cross Section -98.20 To 309.4 %



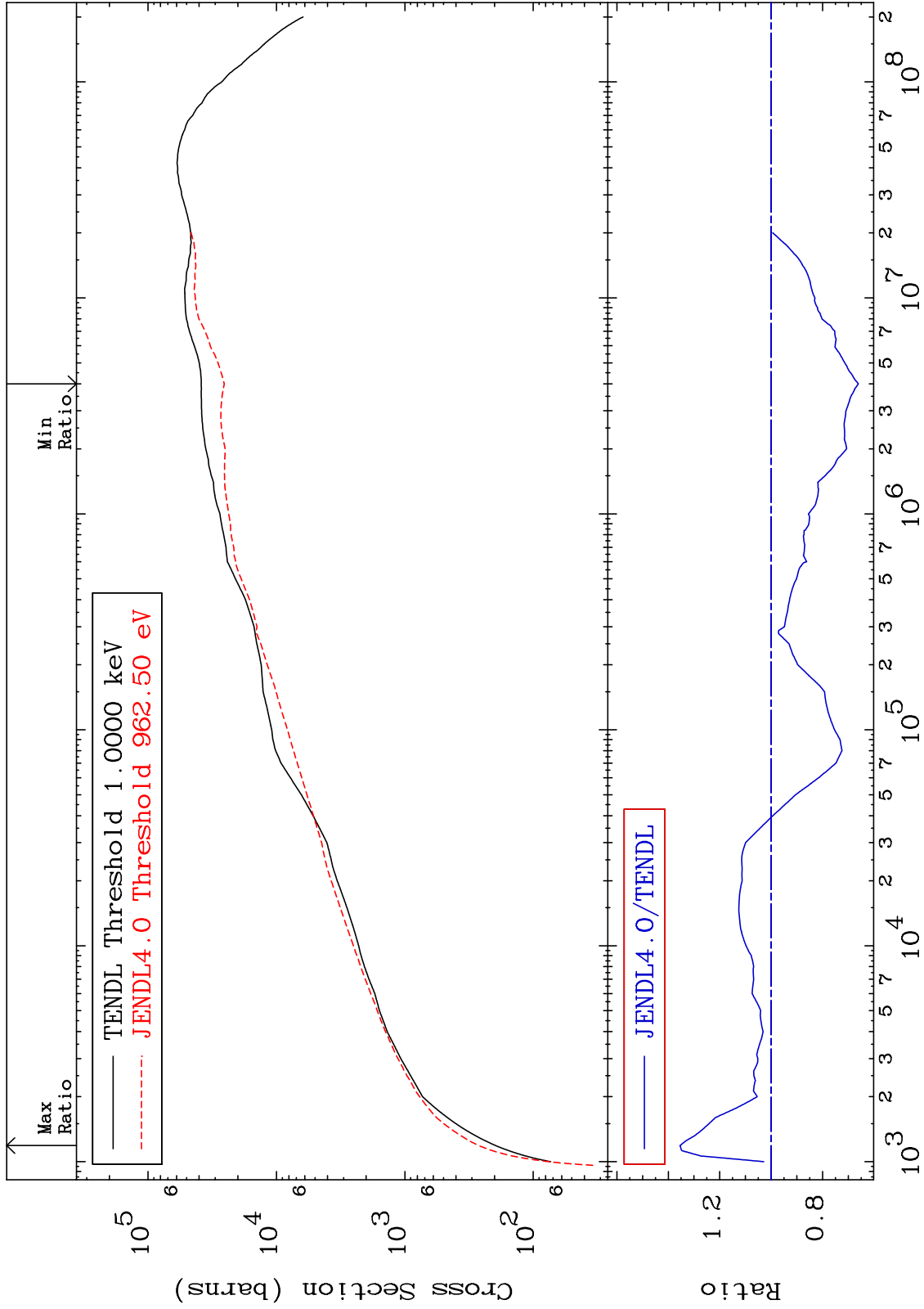
MAT 6240 Dpa total (eV-barns) 62-Sm-149
Cross Section -98.94 To 324.3 %



MAT 6240

Dpa elastic (mt2)
Cross Section

62-Sm-149
-33.94 To 35.44 %



62

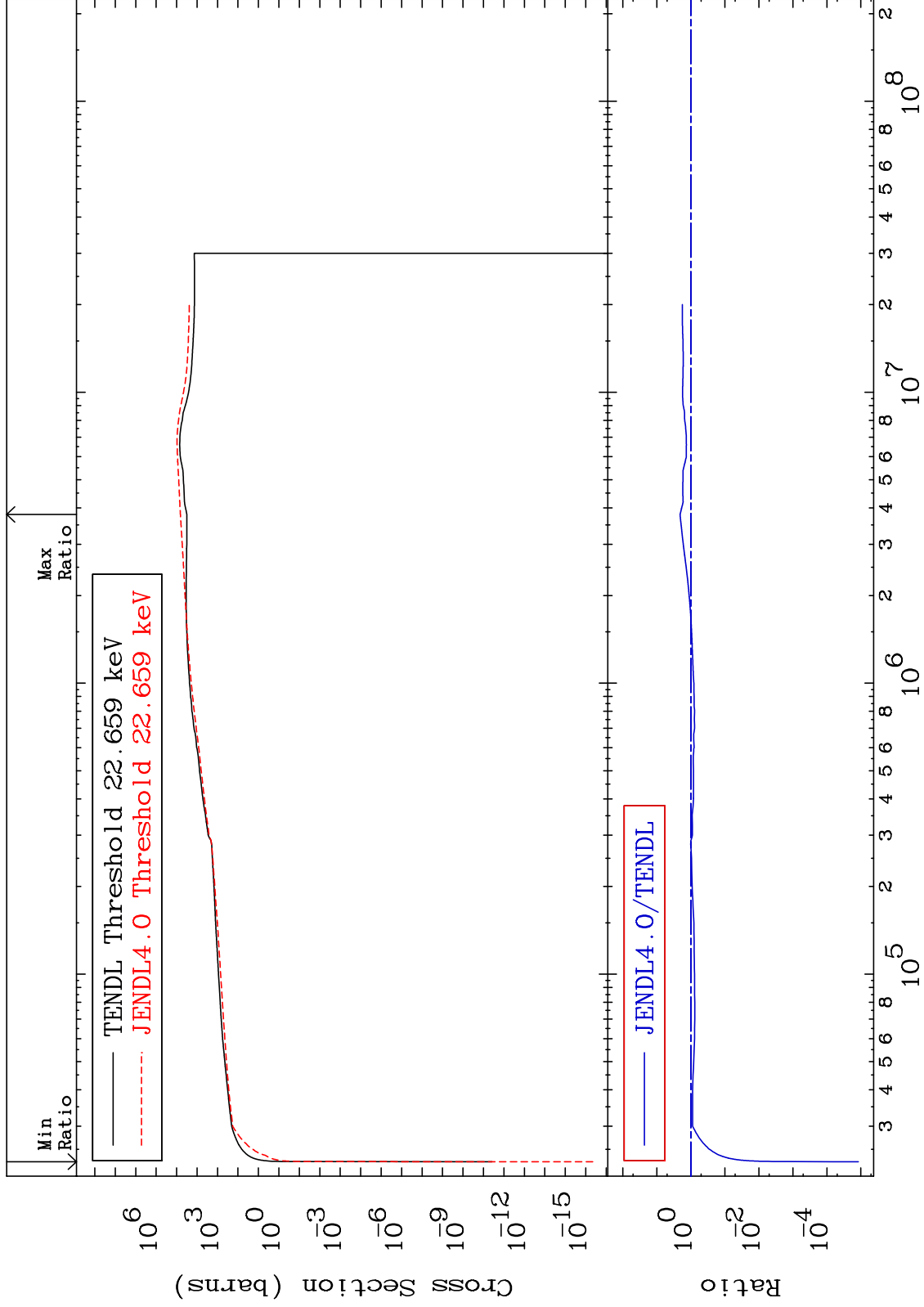
Incident Energy (eV)

62-Sm-149

MAT 6240

Dpa inelastic (mt51-91)
Cross Section

62-Sm-149
-100.0 To 108.1 %



MAT 6240

Dpa disappearance (mt102 -120)
Cross Section

62-Sm-149
-98.94 To 324.3 %

