

Program Complot
(Version 2018-1)

by

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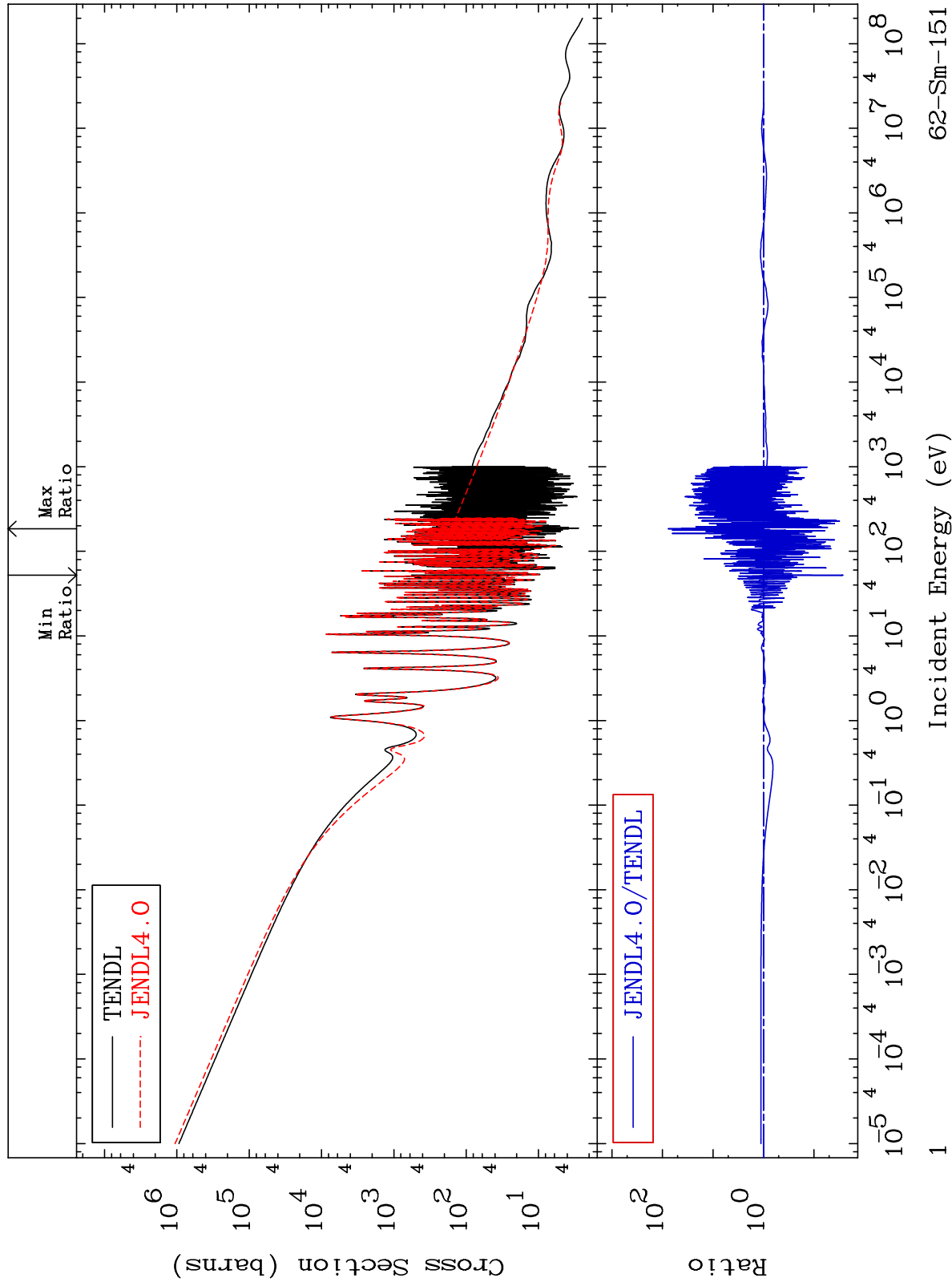
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6246

Total
Cross Section

62-Sm-151
-97.31 To 7660. %



62-Sm-151

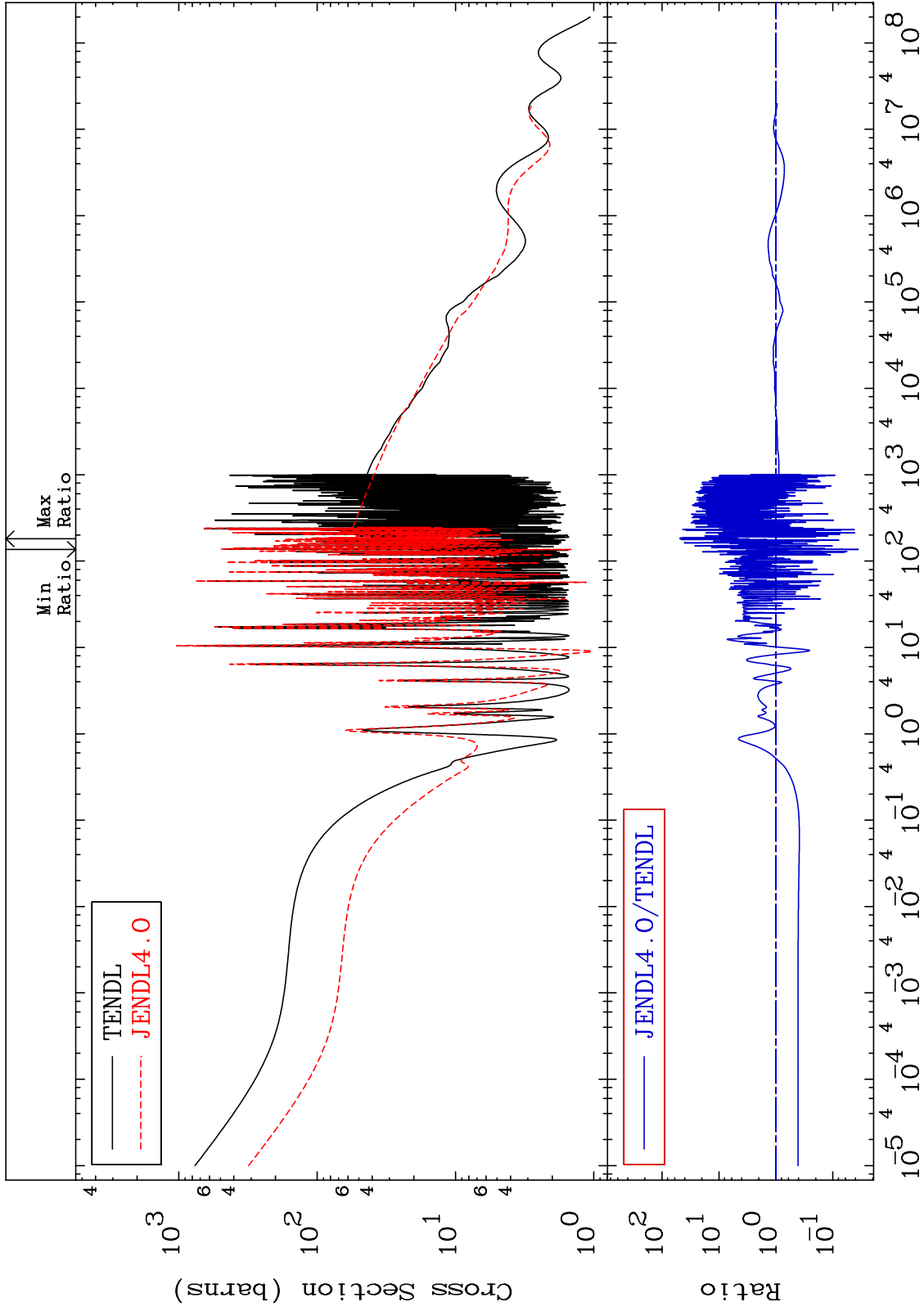
MAT 6246

Elastic

62-Sm-151

Cross Section

-96.44 To 4774. %

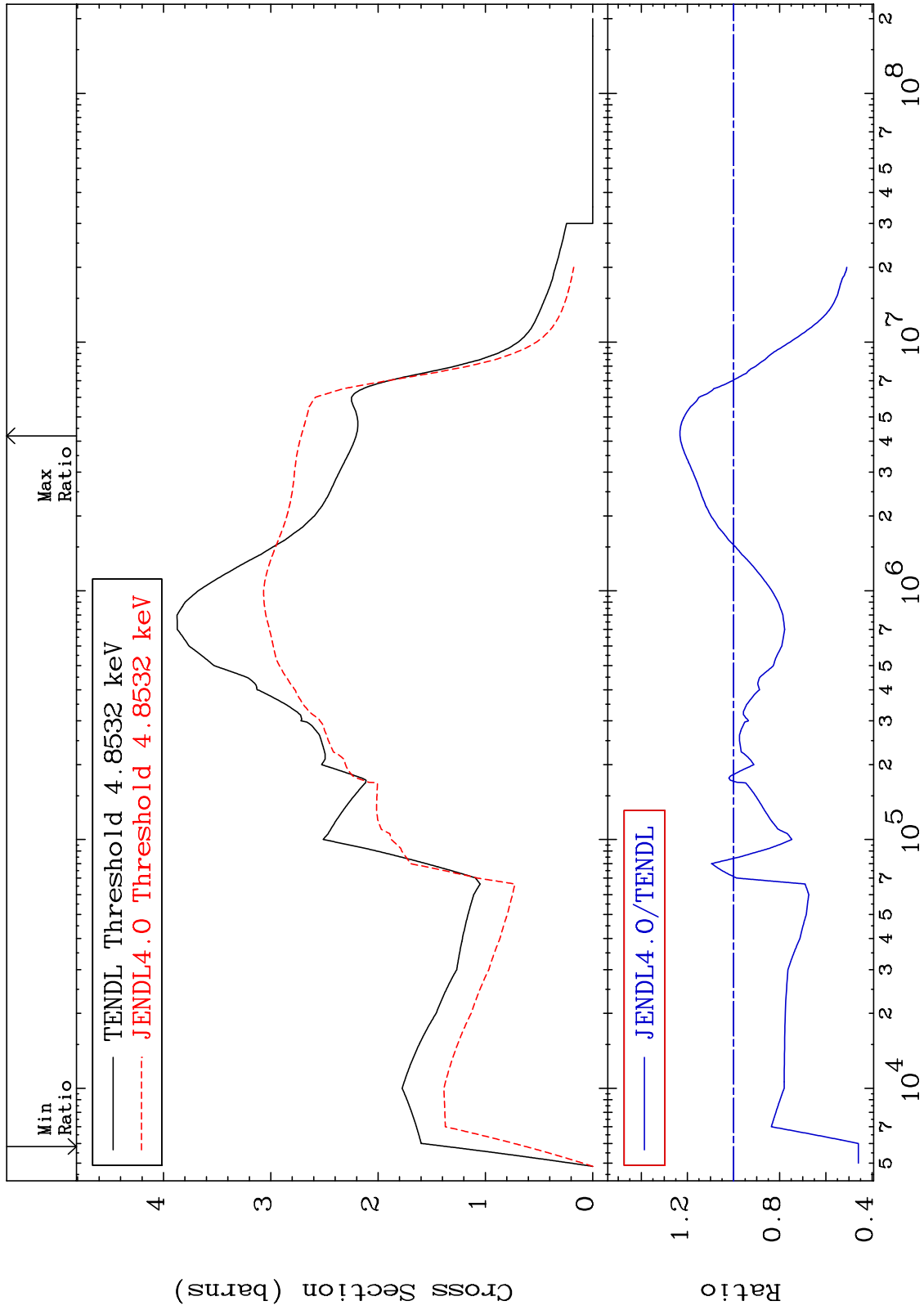


Incident Energy (eV)

62-Sm-151

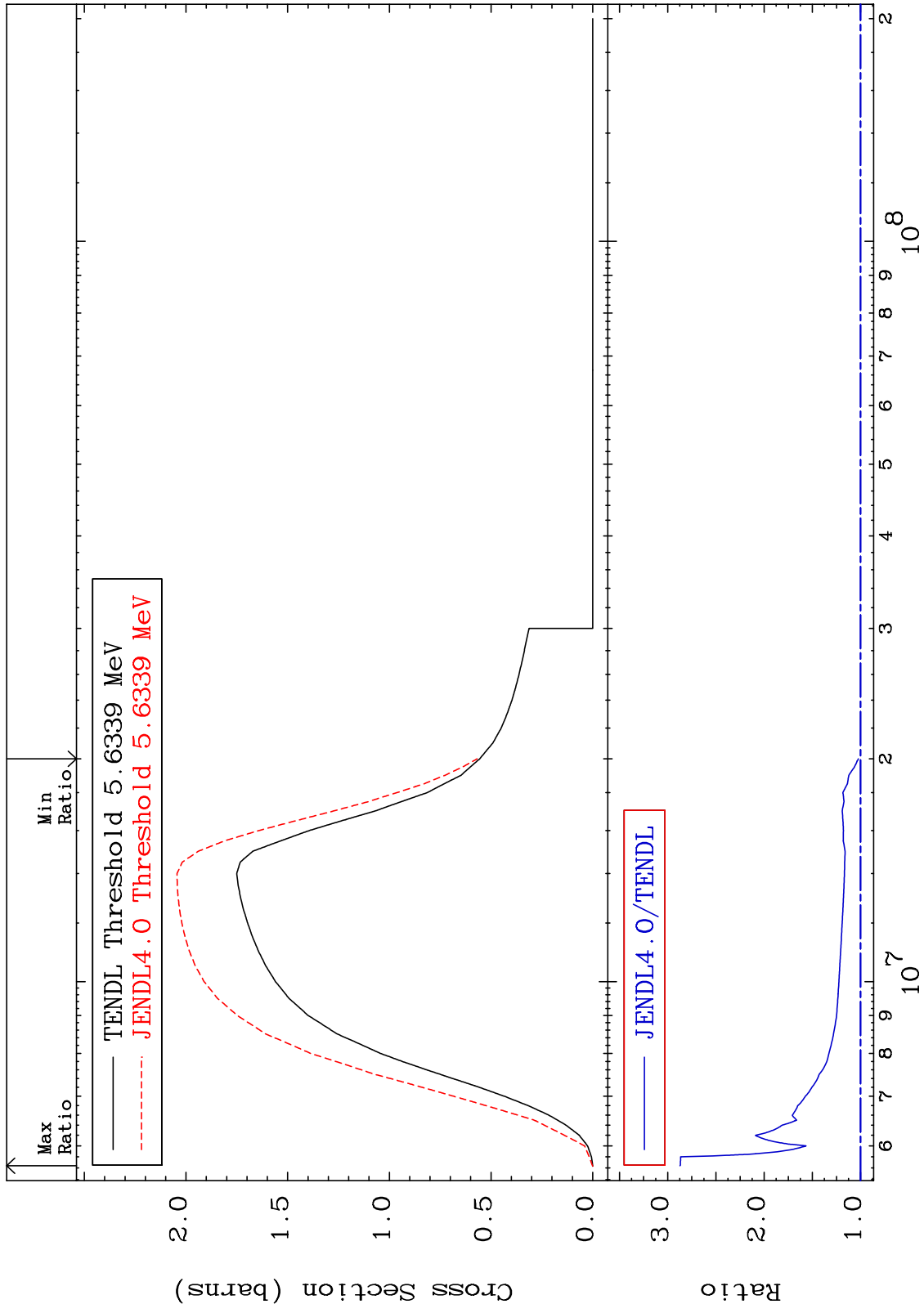
2

MAT 6246 Inelastic Cross Section 62-Sm-151 -54.10 To 23.21 %



3 Incident Energy (eV) 62-Sm-151

MAT 6246 (n,2n) Cross Section 62-Sm-151 To 187.2 % 2.242



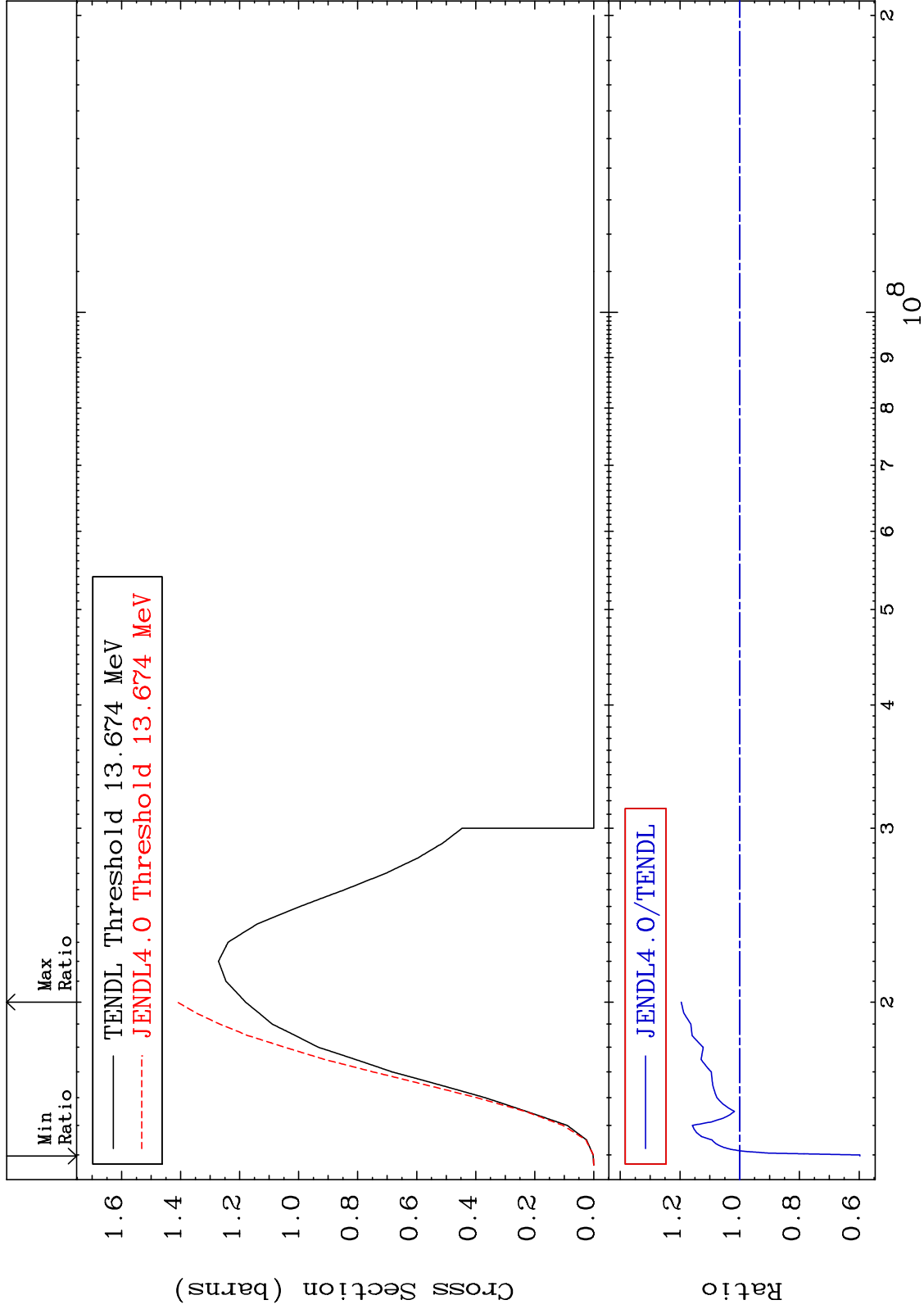
MAT 6246

(n,3n)

62-Sm-151

Cross Section

-40.27 To 19.58 %



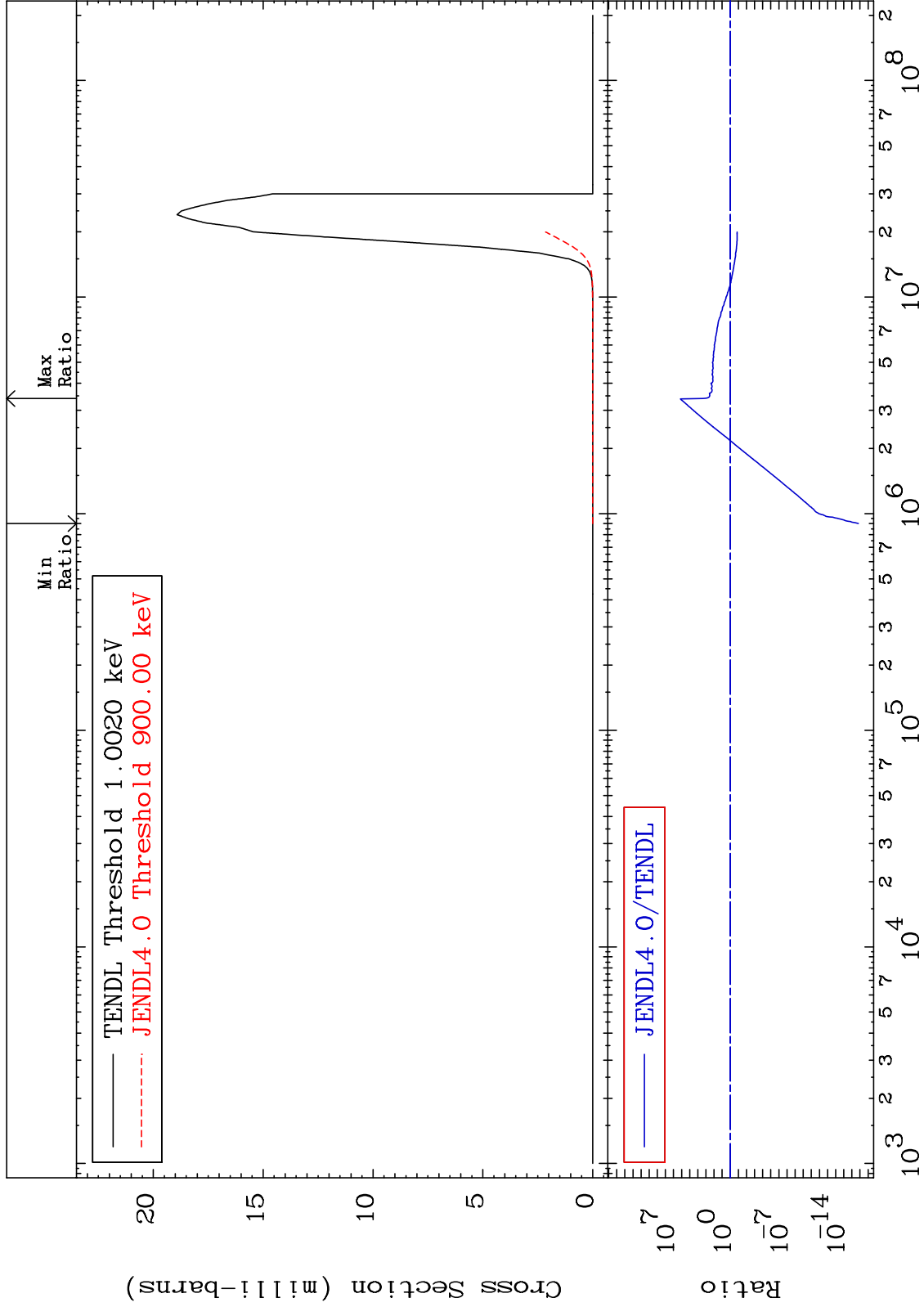
MAT 6246

(n, n') α

62-Sm-151

Cross Section

-100.0 To 9999. %



6

Incident Energy (eV)

62-Sm-151

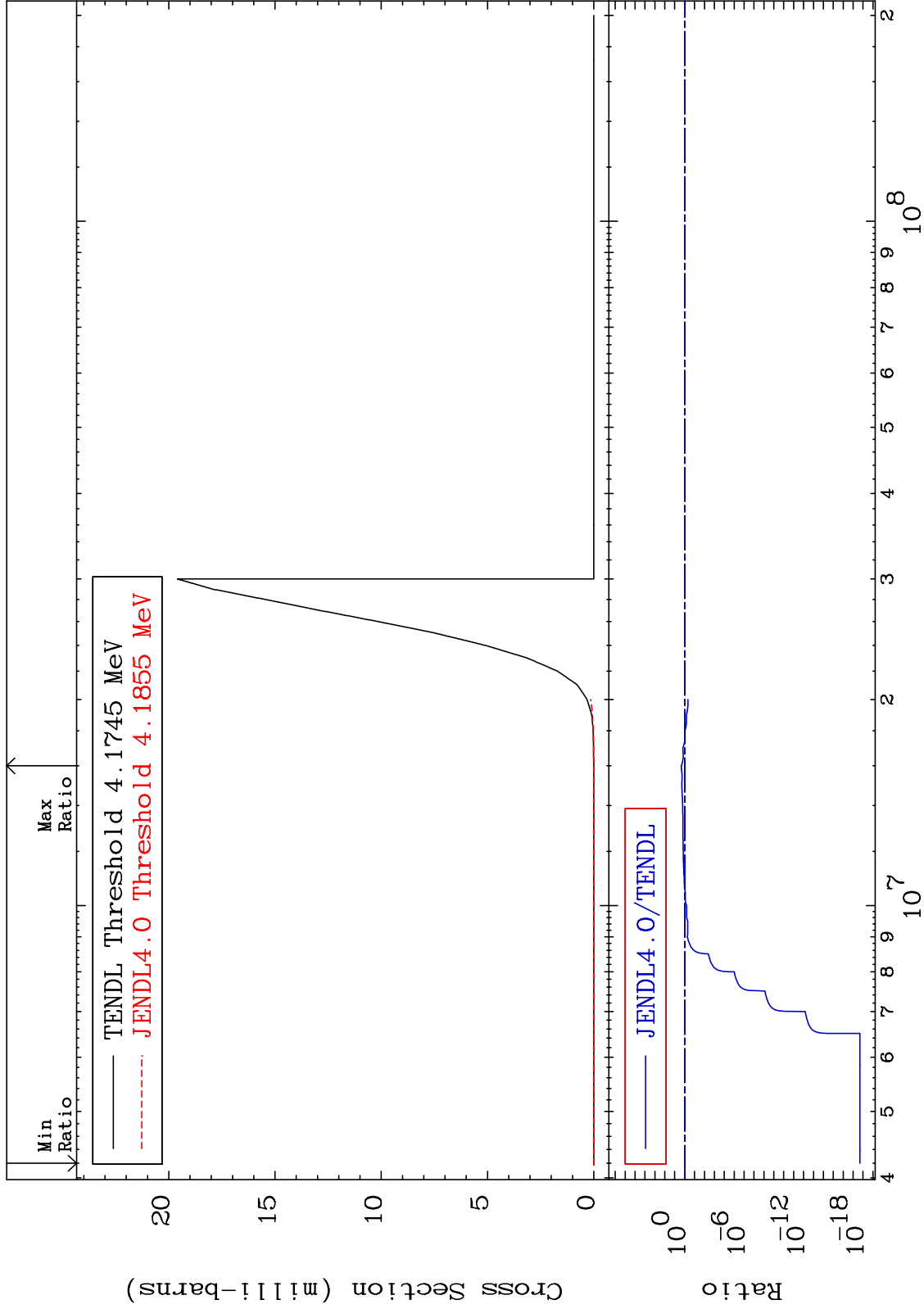
MAT 6246

(n,2n) α

62-Sm-151

Cross Section

-100.0 To 119.8 %



Incident Energy (eV)

62-Sm-151

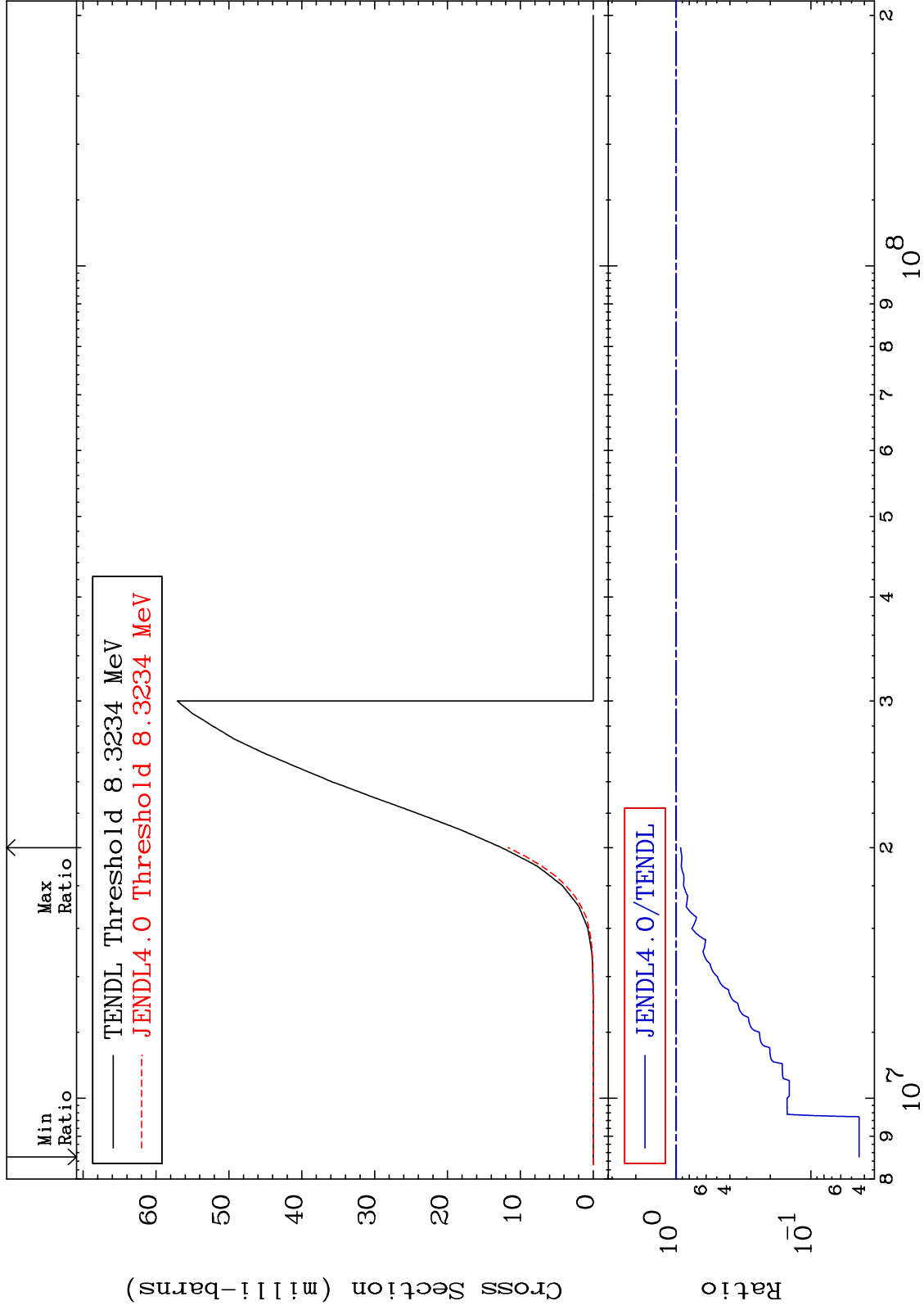
MAT 6246

(n,n') p

62-Sm-151

Cross Section

-95.62 To -7.227%



8

Incident Energy (eV)

62-Sm-151

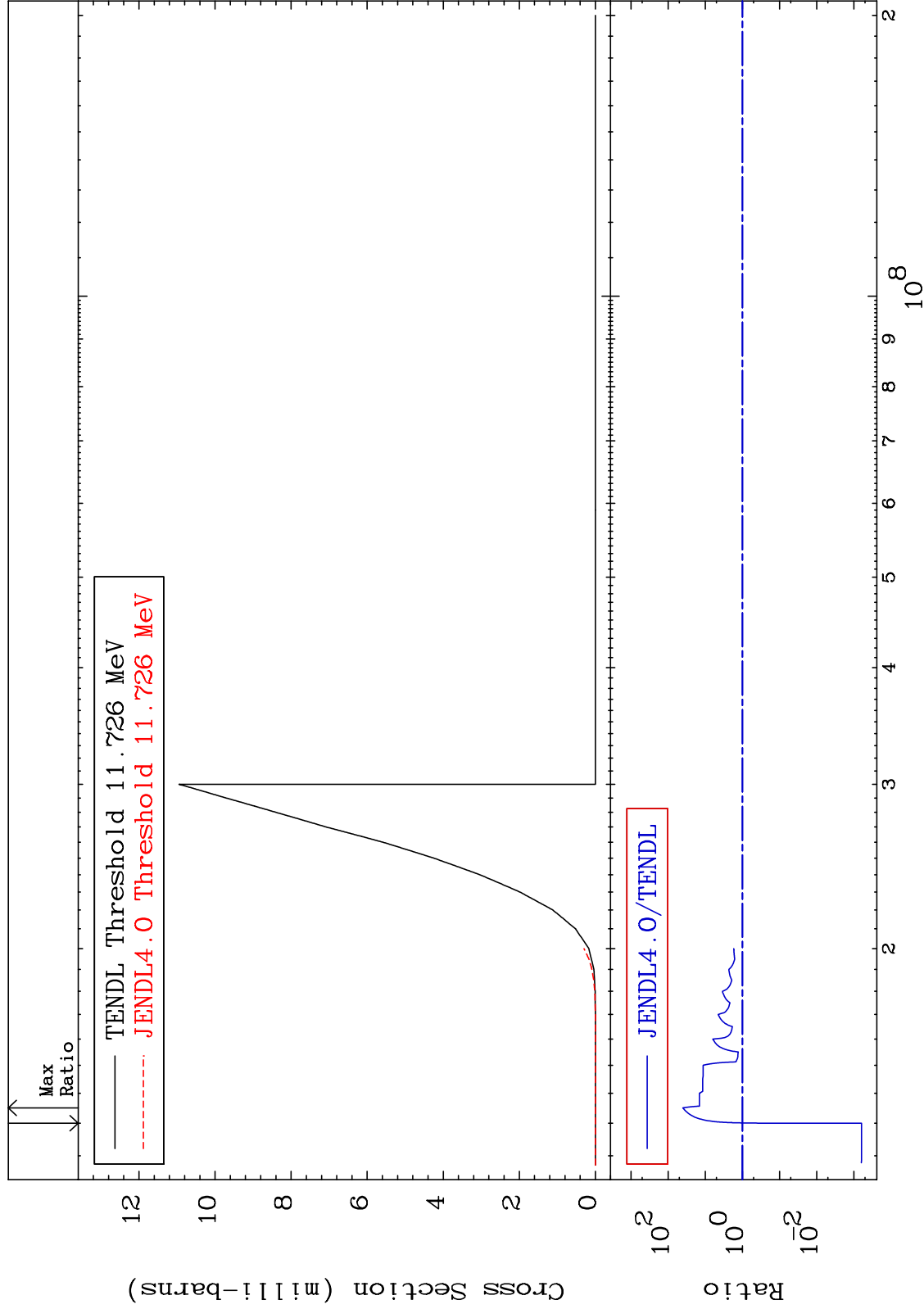
MAT 6246

(n,n') d

62-Sm-151

Cross Section

-99.94 To 3921. %



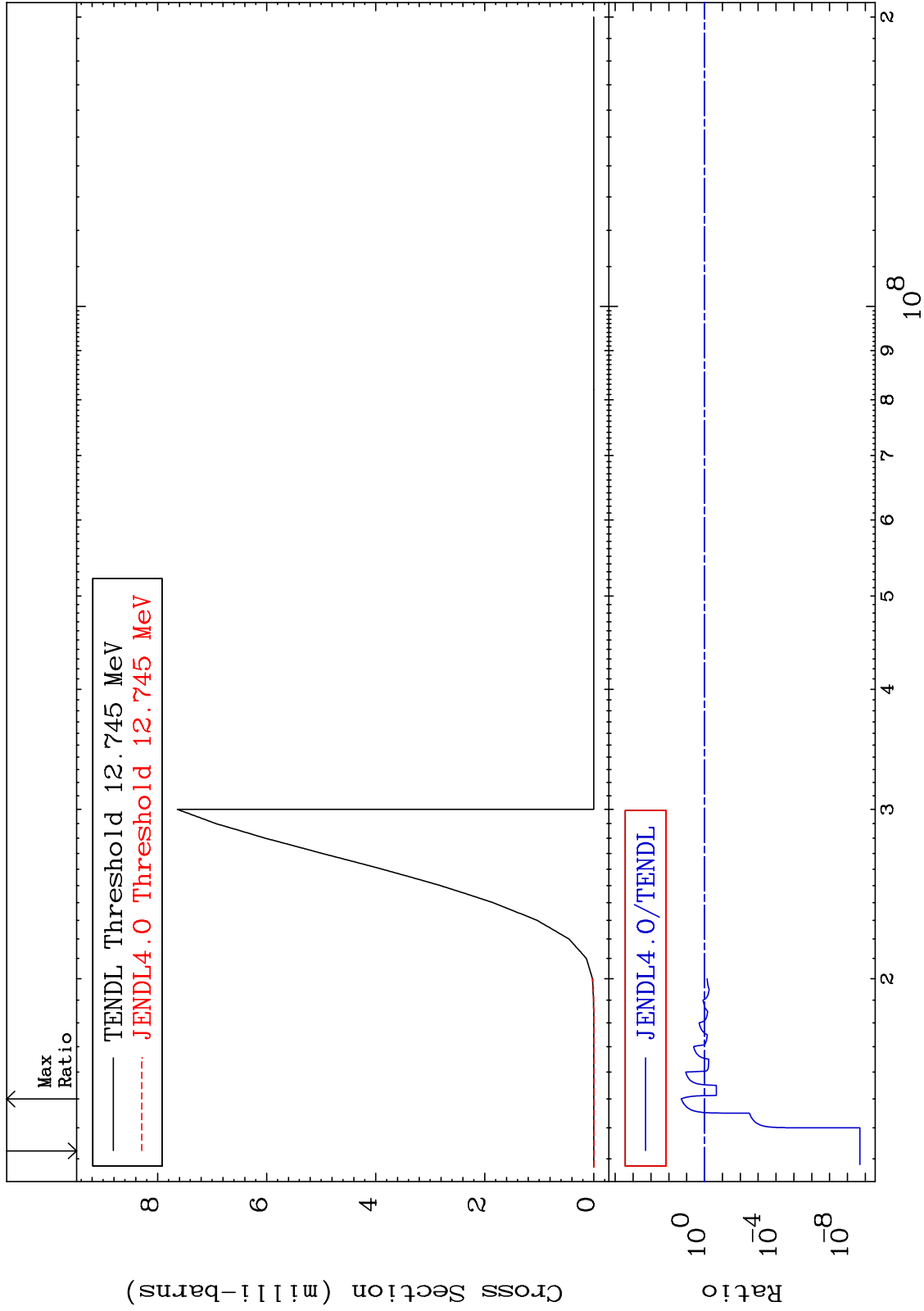
MAT 6246

(n,n') t

62-Sm-151

Cross Section

-100.0 To 1924. %



10

Incident Energy (eV)

62-Sm-151

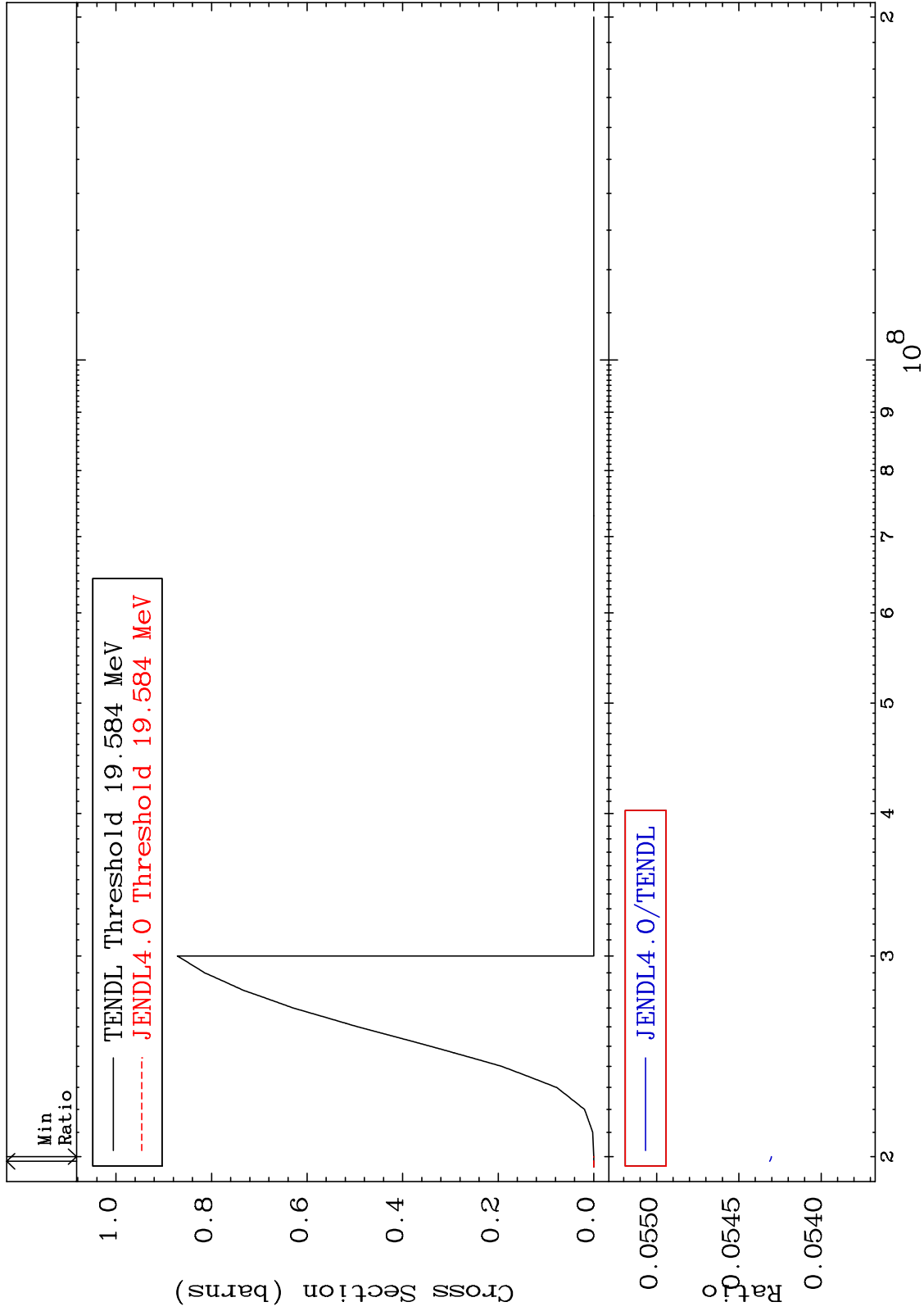
MAT 6246

(n, 4n)

62-Sm-151

Cross Section

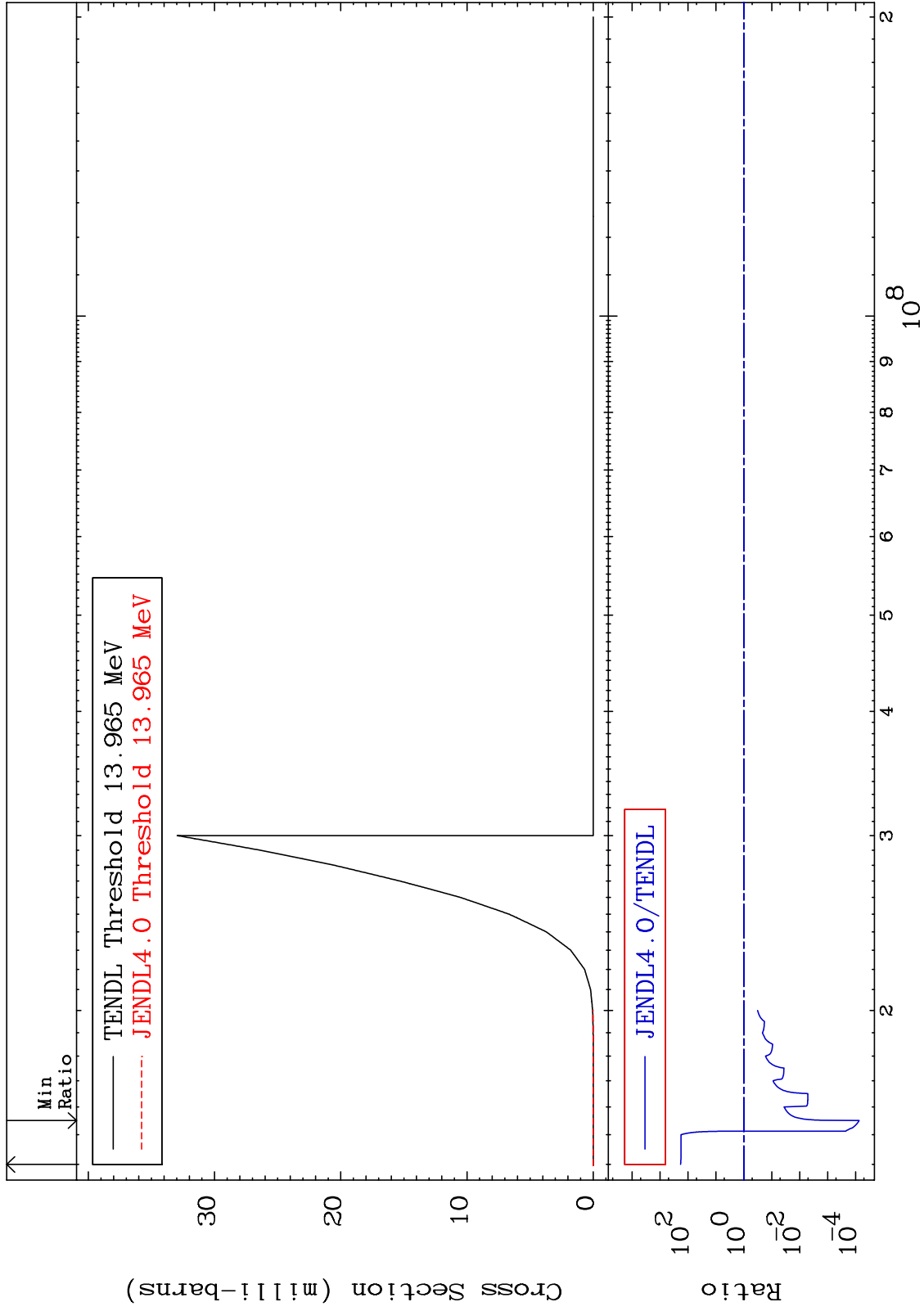
-94.57 To -94.57%



MAT 6246

(n,2n) p
Cross Section

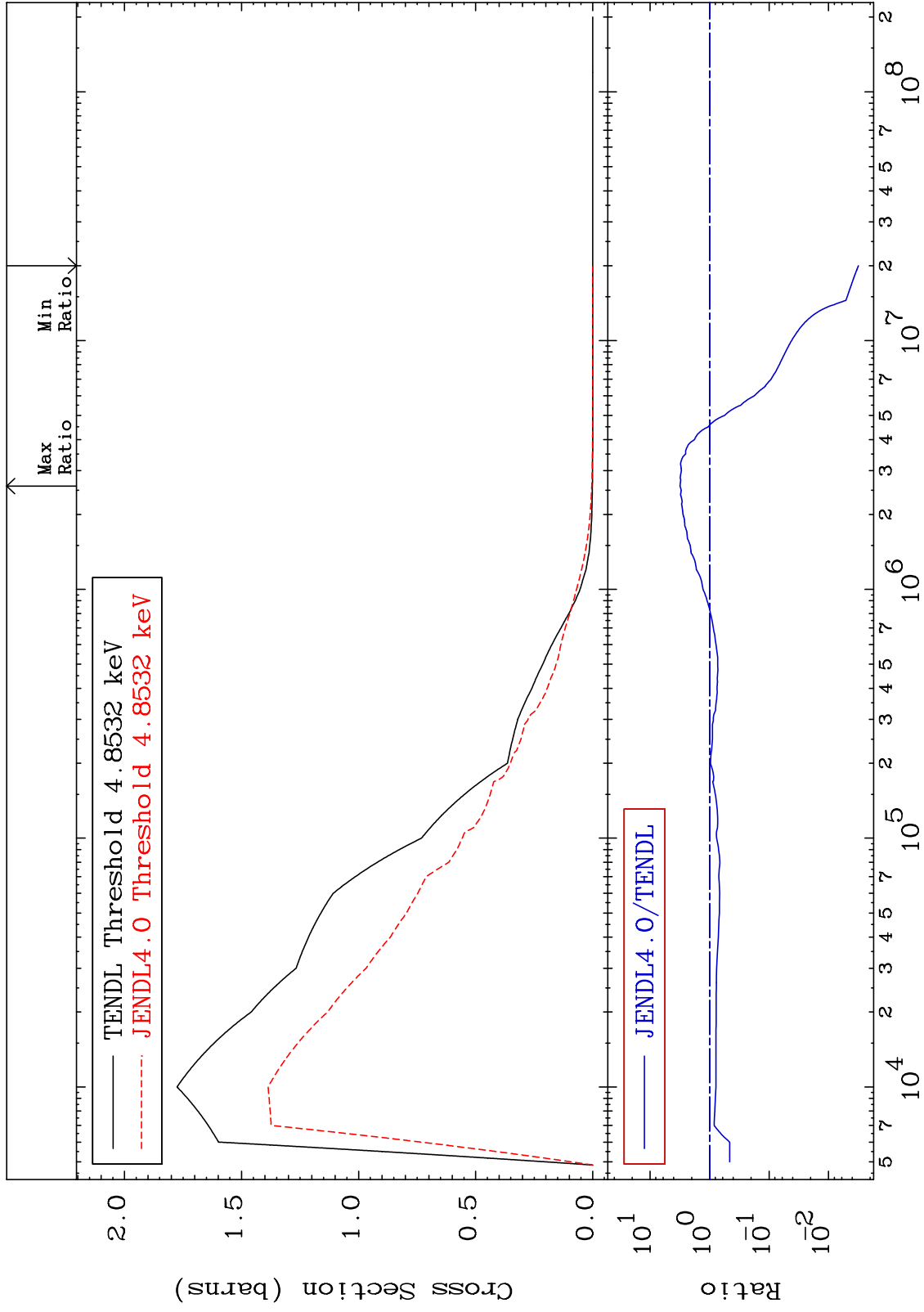
62-Sm-151
-99.99 To 9999. %



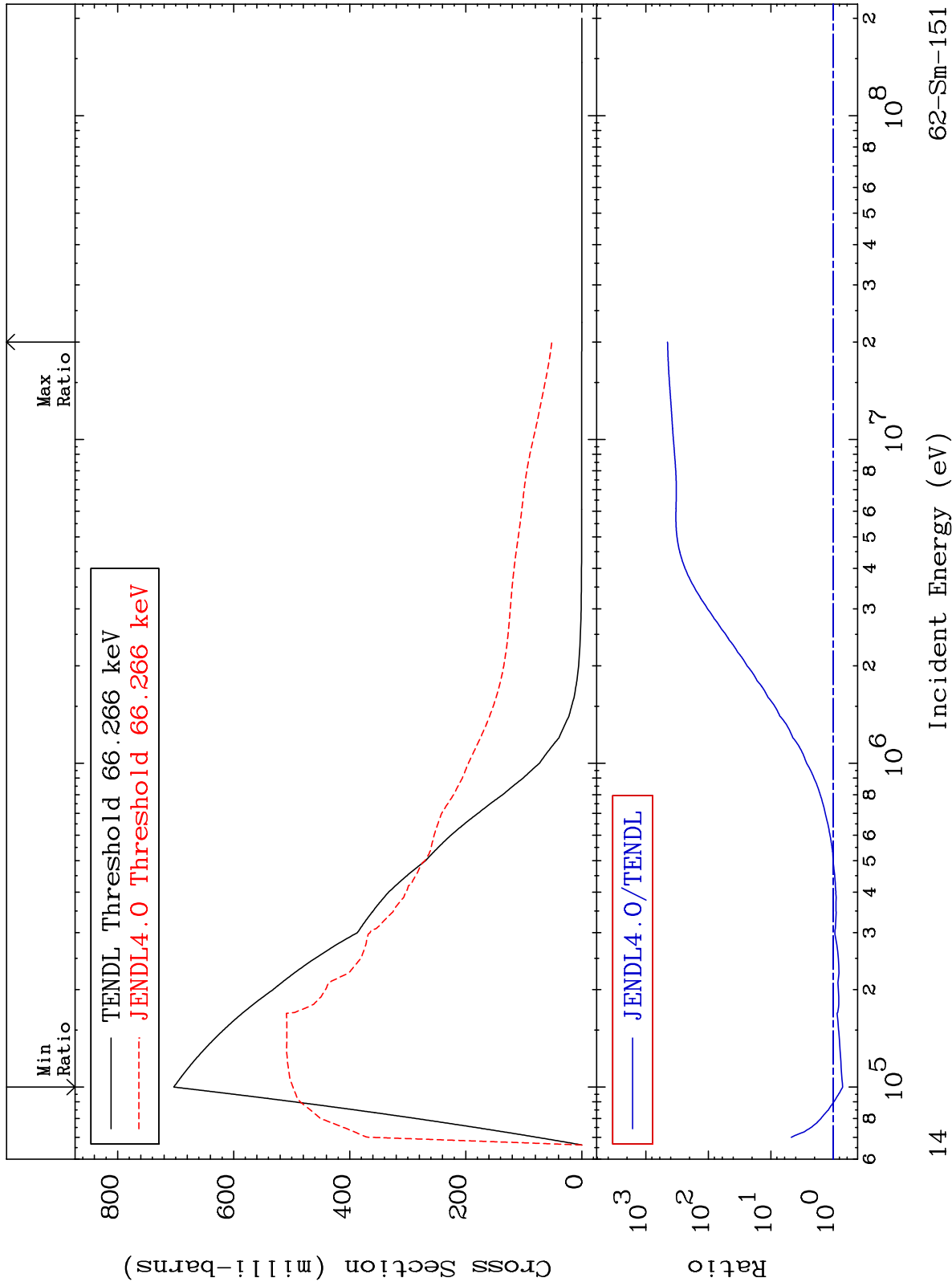
MAT 6246

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

62-Sm-151
-99.69 To 213.6 %



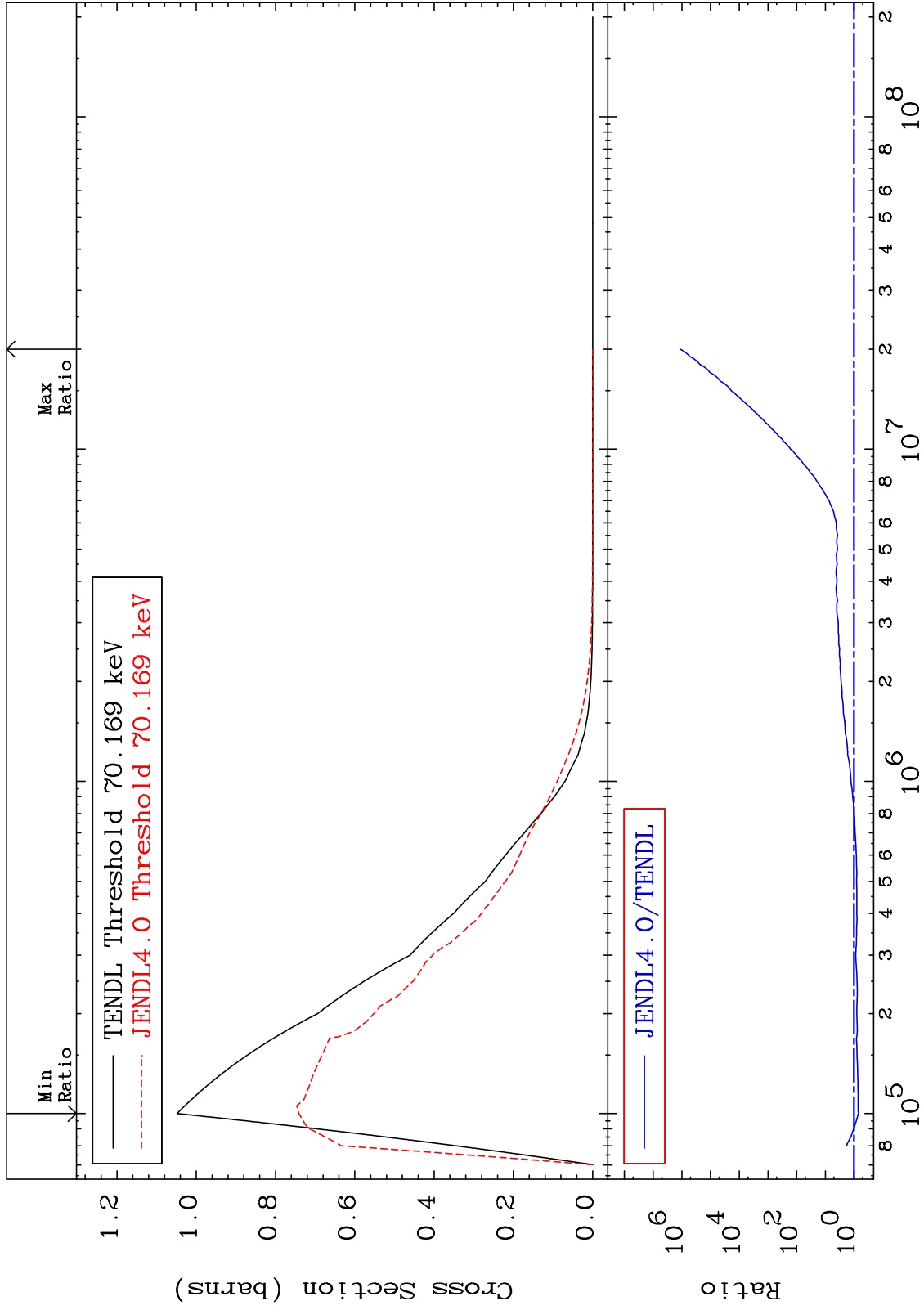
MAT 6246 MT= 52 (n,n') Level 62-Sm-151
 Cross Section -29.20 To 9999. %



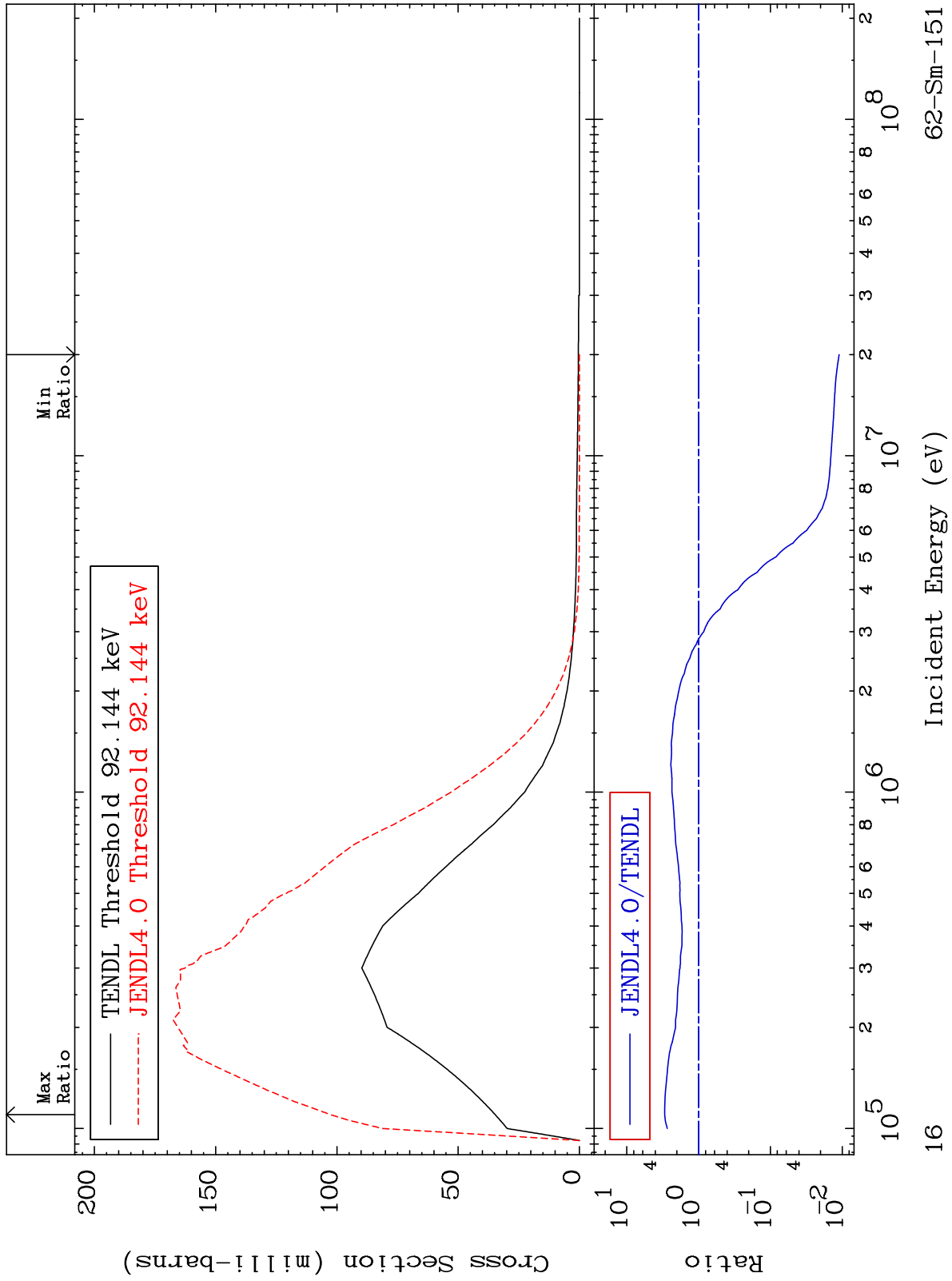
MAT 6246

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

62-Sm-151
-29.30 To 9999. %



MAT 6246 MT= 54 (n,n') Level 62-Sm-151
Cross Section -98.90 To 195.7 %

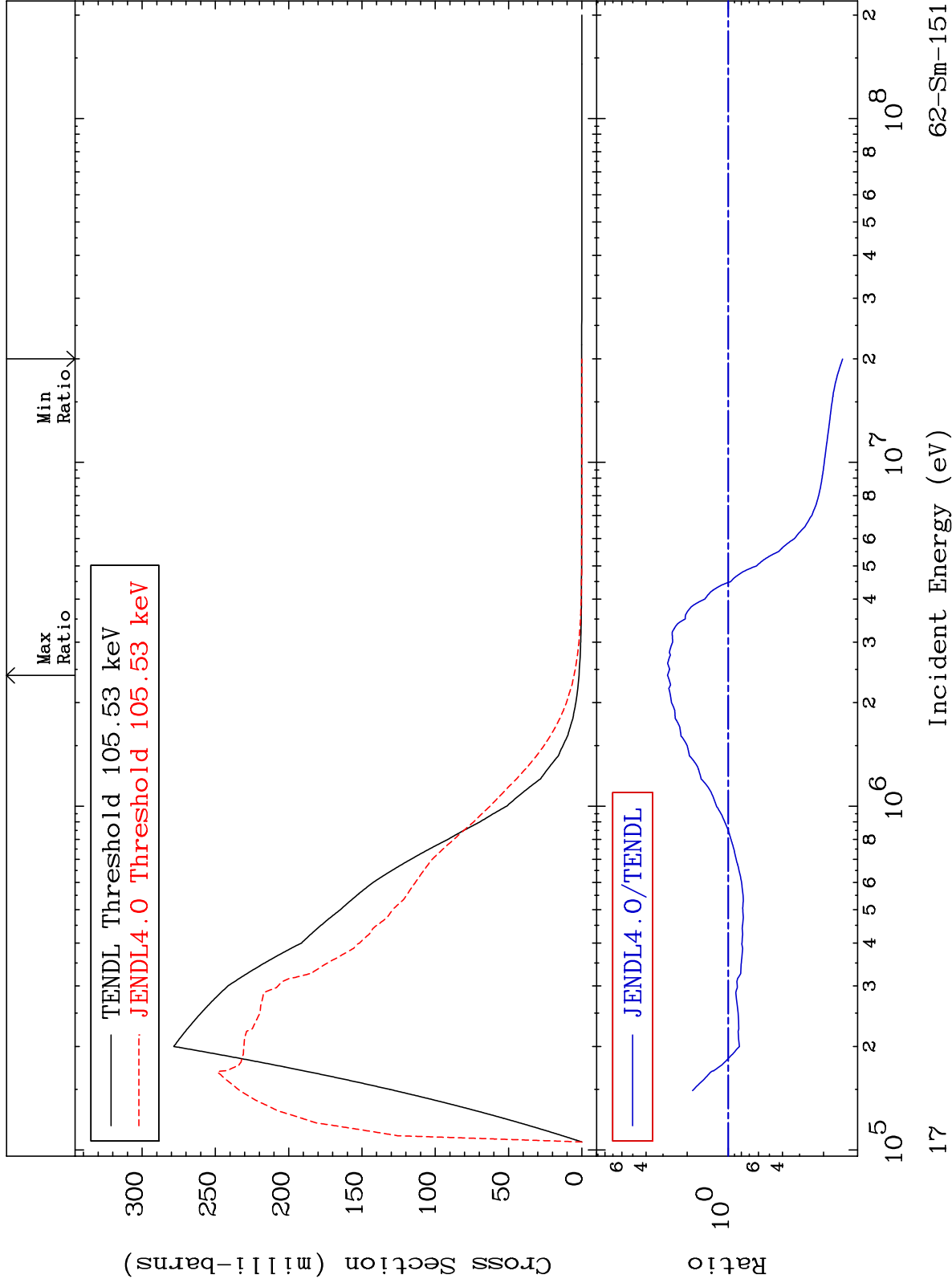


16 Incident Energy (eV) 62-Sm-151

MAT 6246

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

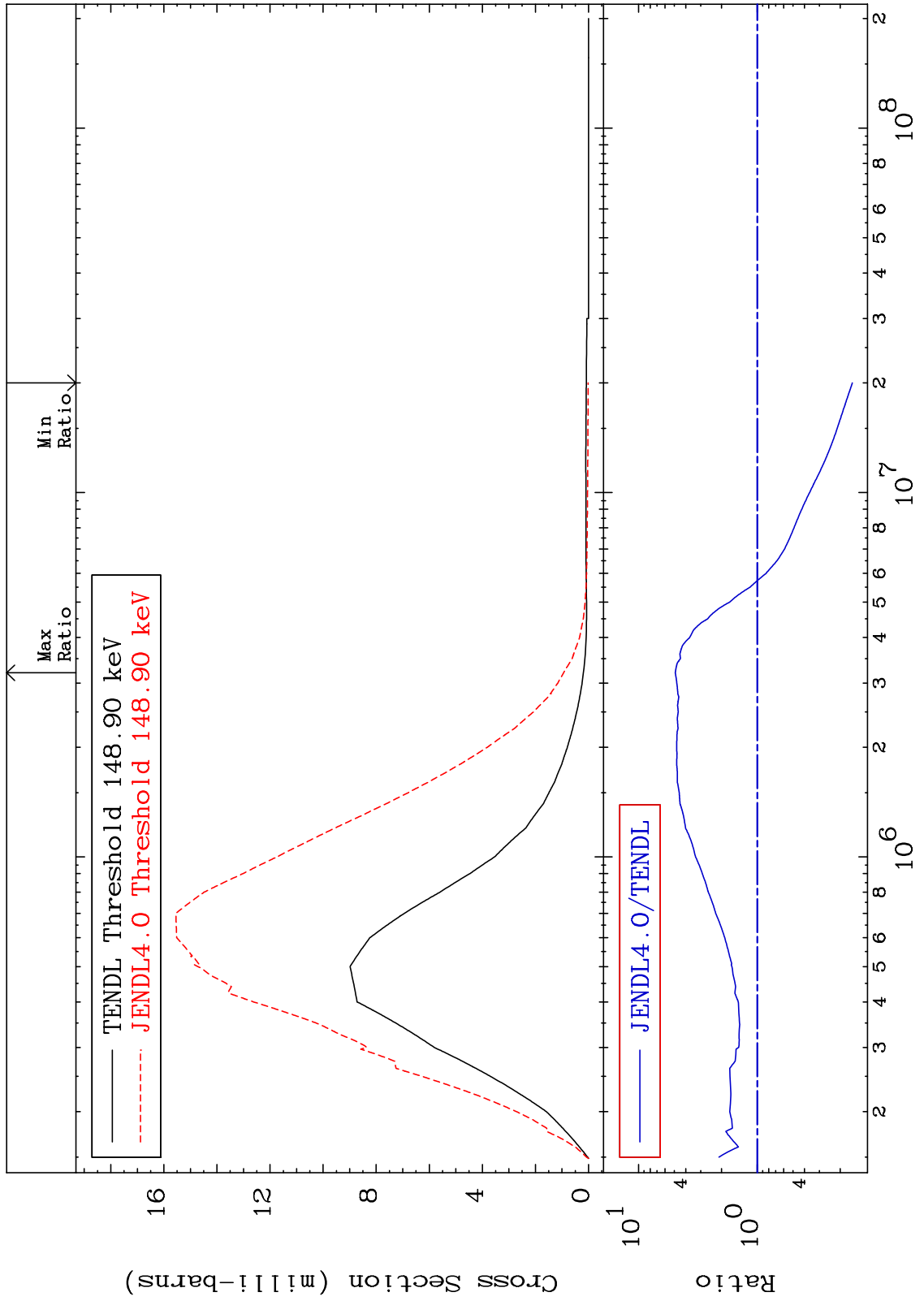
62-Sm-151
-85.48 To 178.1 %



62-Sm-151

17

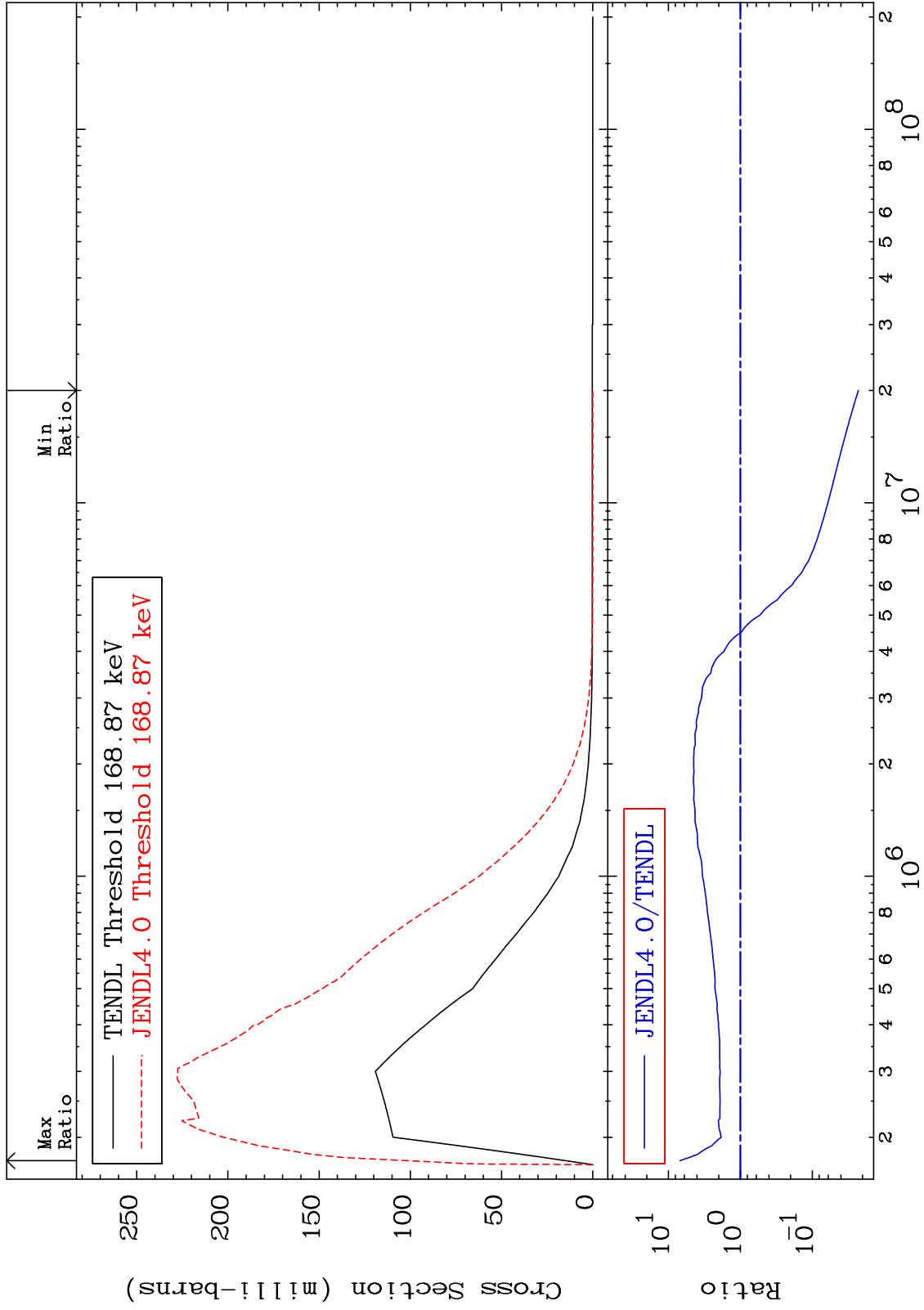
MAT 6246 MT= 56 (n,n') Level Cross Section 62-Sm-151
 -84.19 To 391.8 %



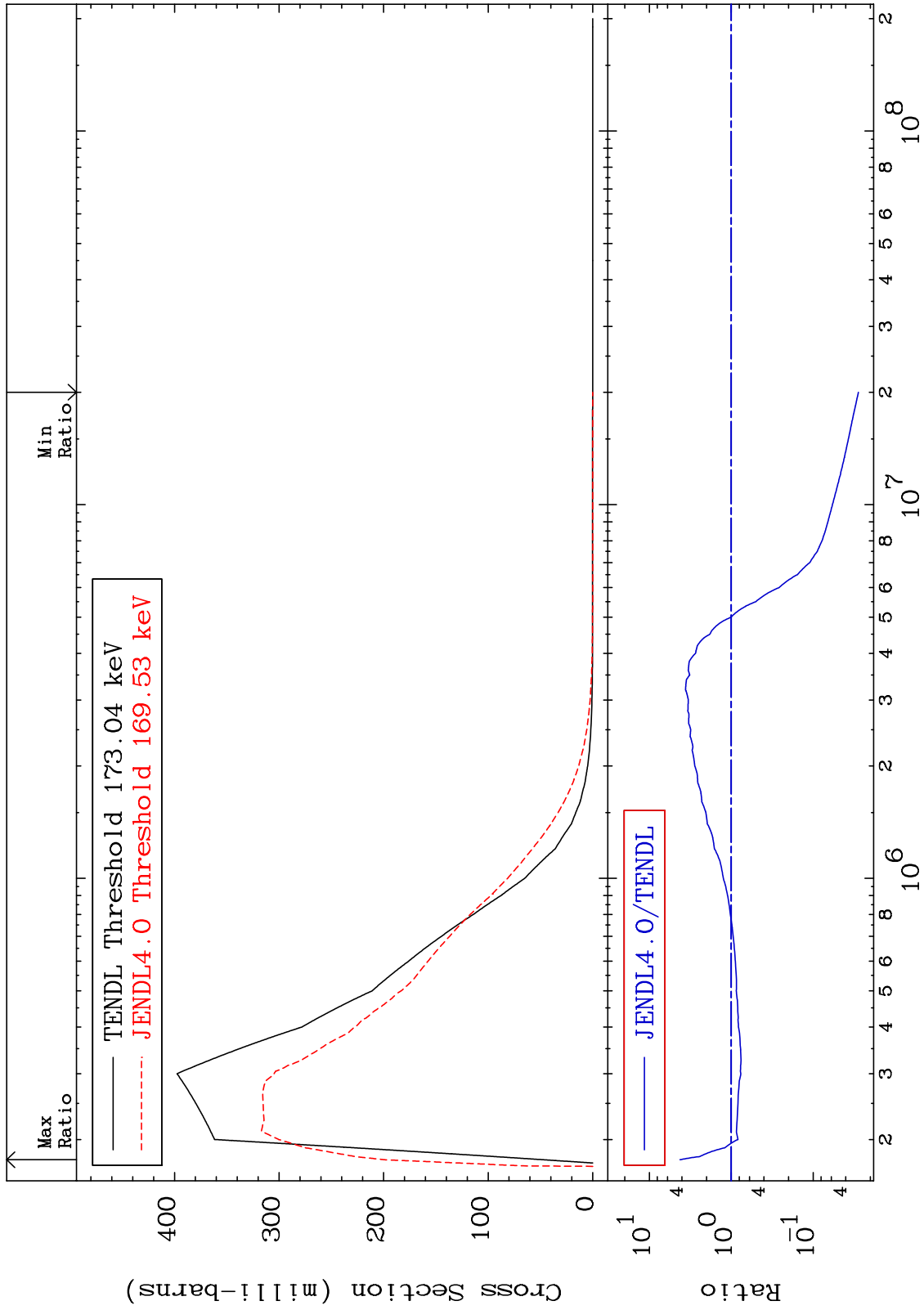
MAT 6246

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

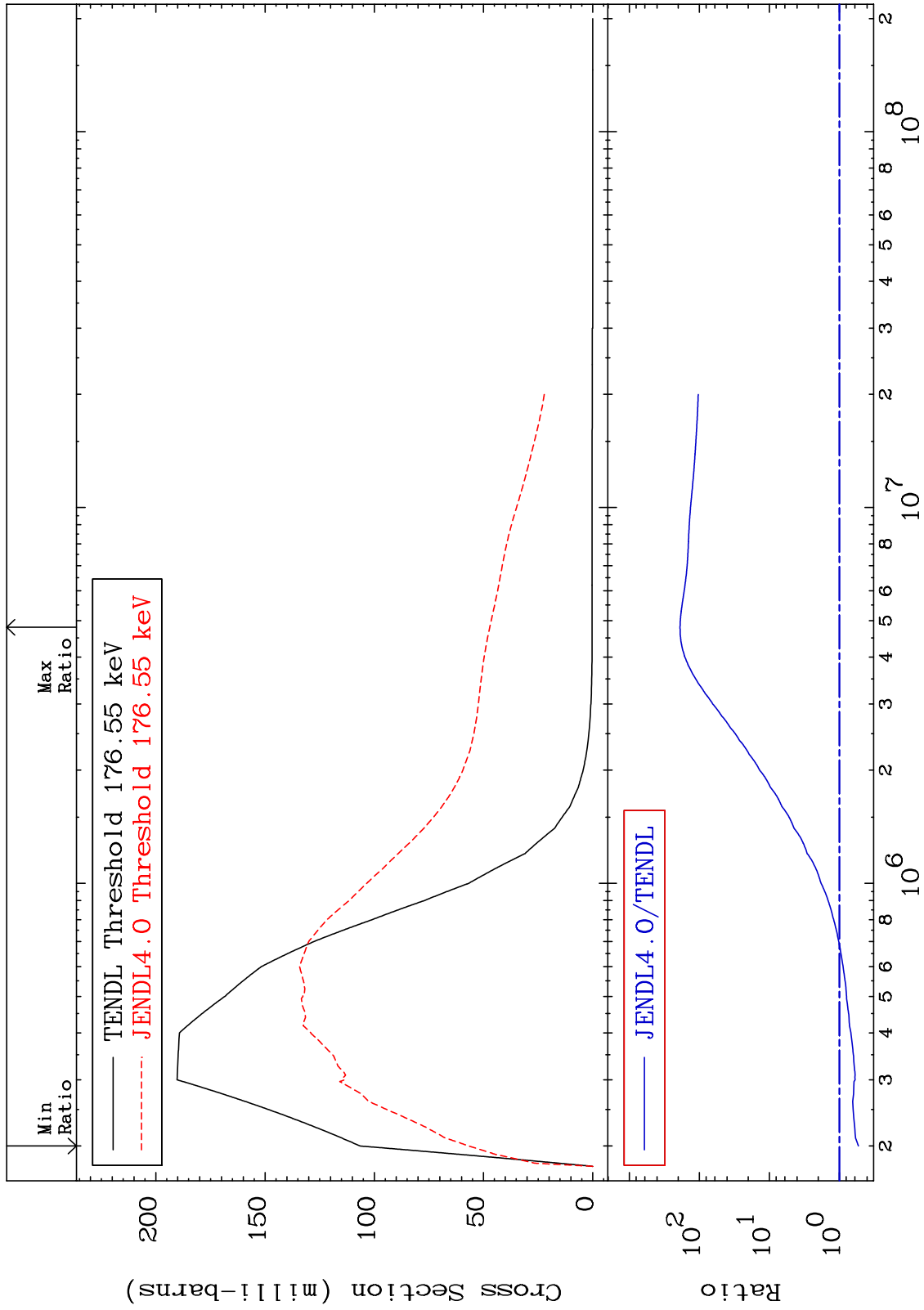
62-Sm-151
-97.72 To 590.1 %



MAT 6246 MT= 58 (n,n') Level 62-Sm-151
 Cross Section -97.20 To 322.7 %



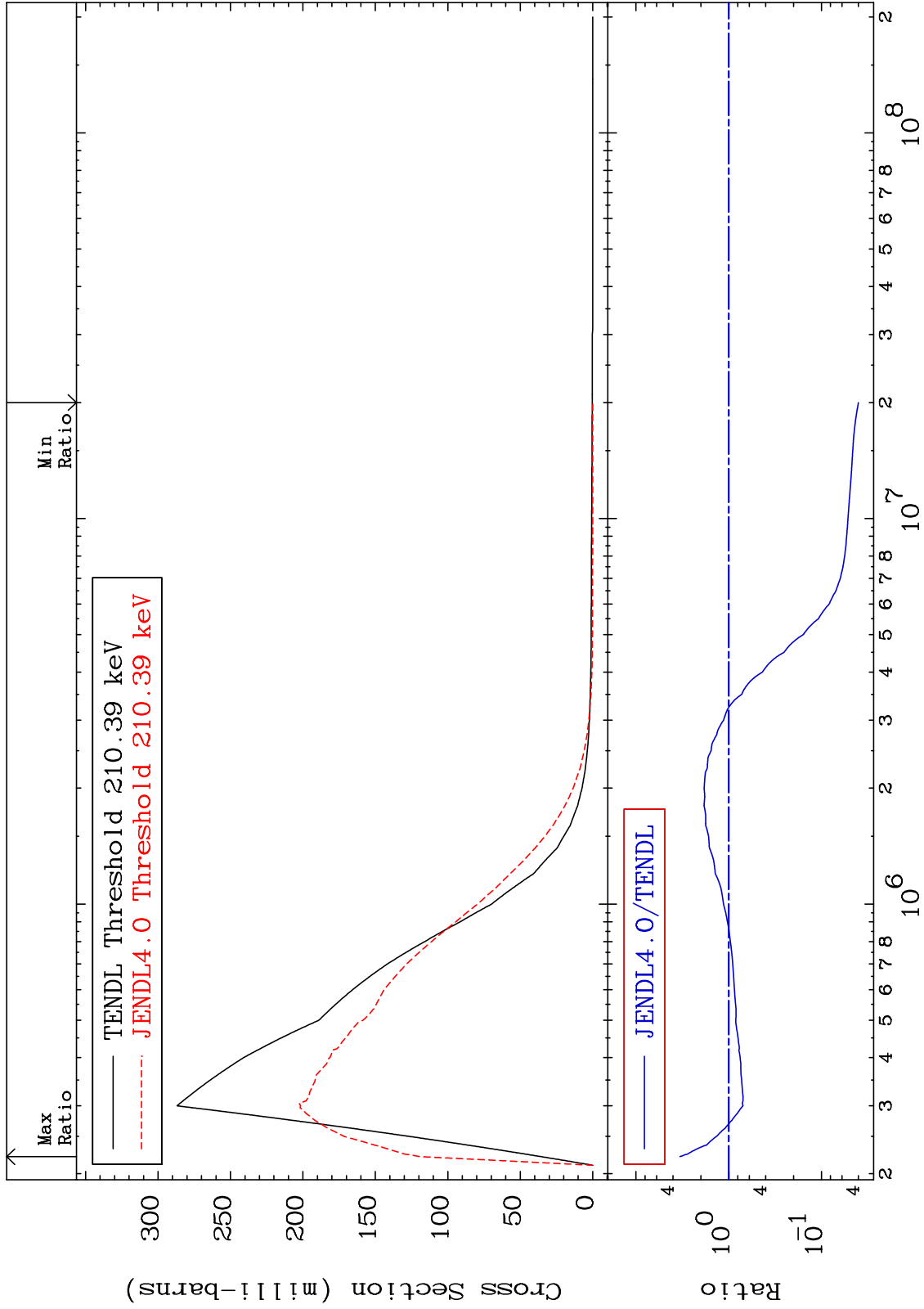
MAT 6246 MT= 59 (n,n') Level 62-Sm-151
 Cross Section -46.69 To 9999. %



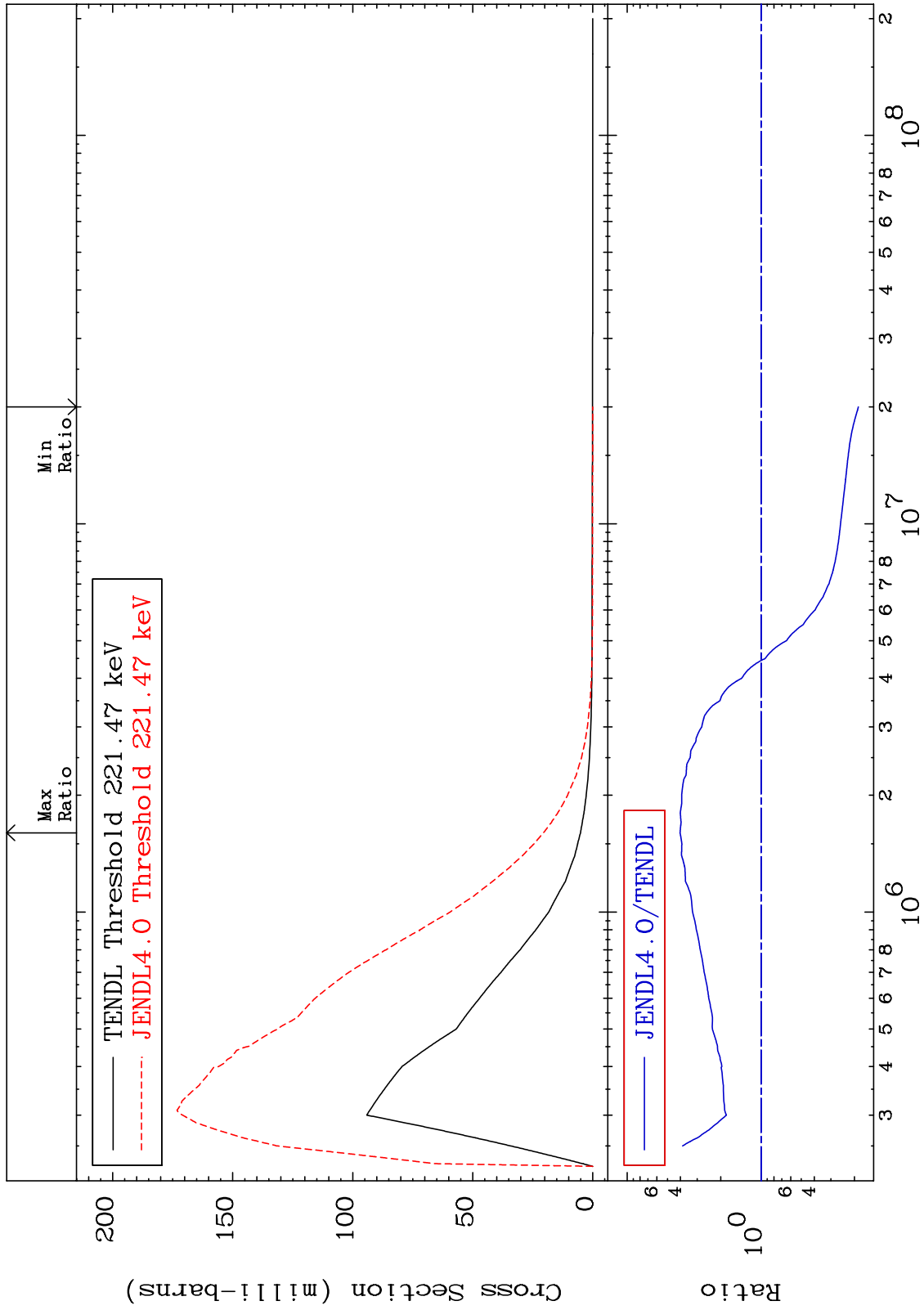
MAT 6246

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

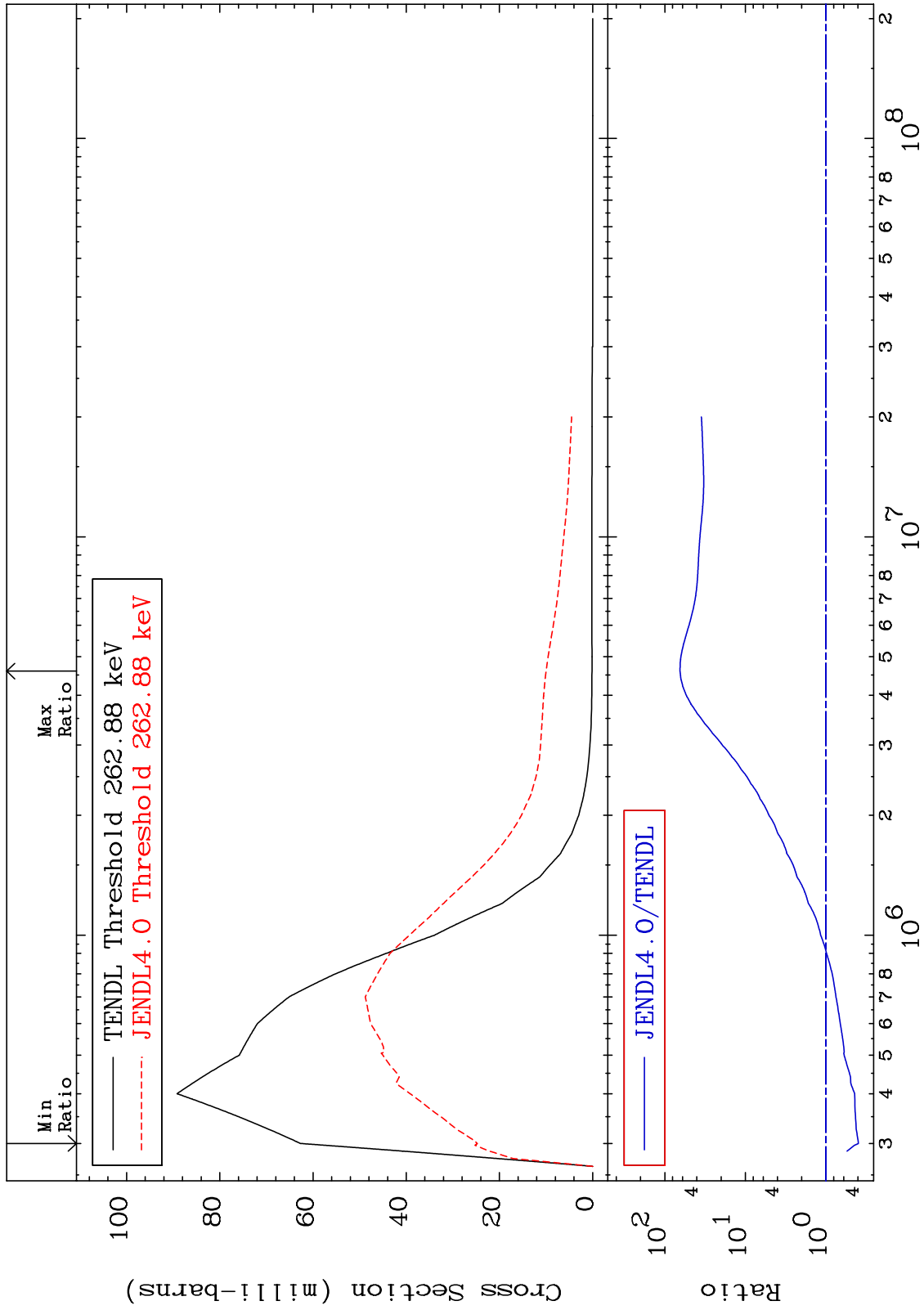
62-Sm-151
-96.01 To 235.0 %



MAT 6246 MT= 61 (n,n') Level 62-Sm-151
 Cross Section -81.29 To 302.8 %



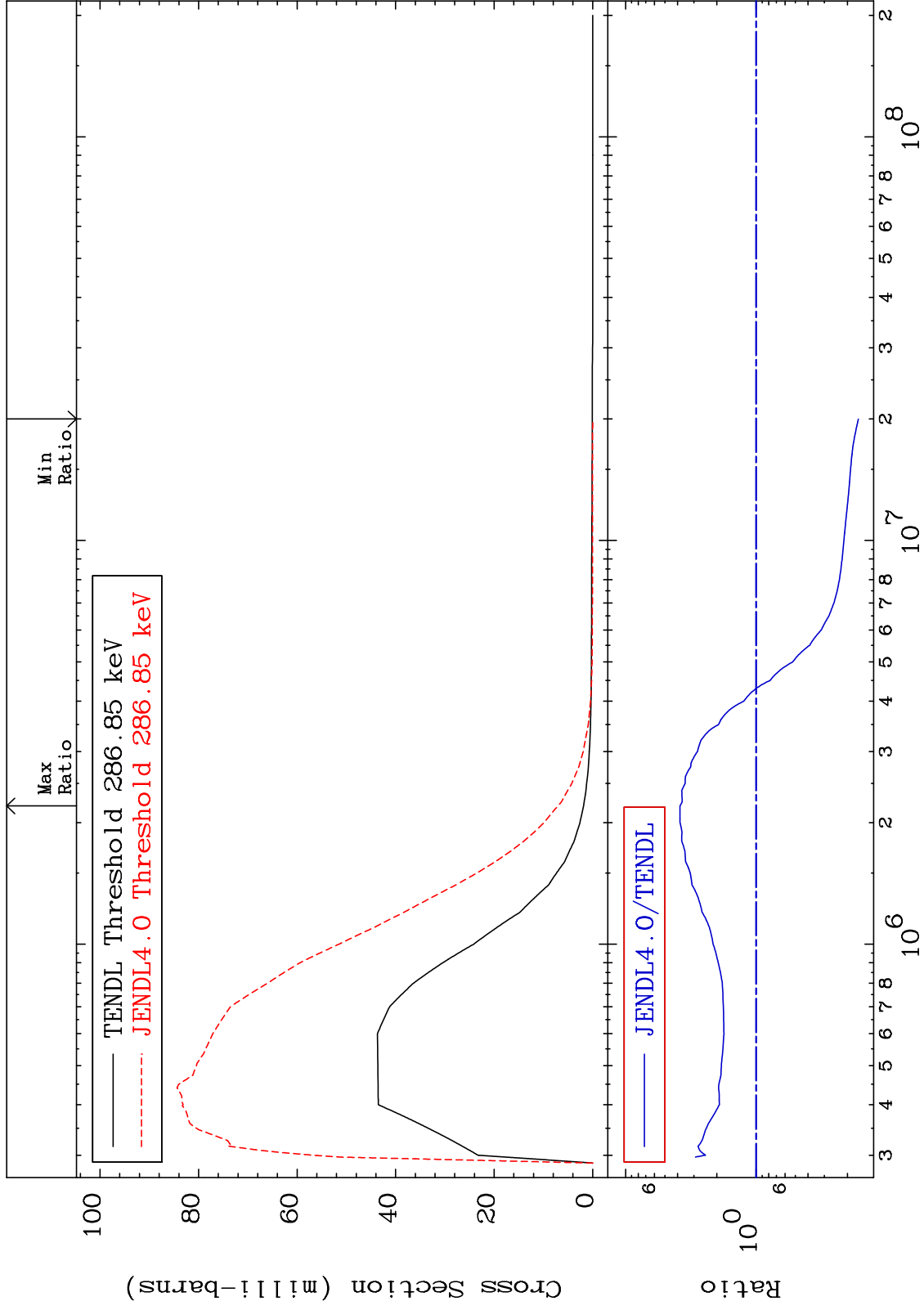
MAT 6246 MT= 62 (n,n') Level 62-Sm-151
 Cross Section -60.53 To 6371. %

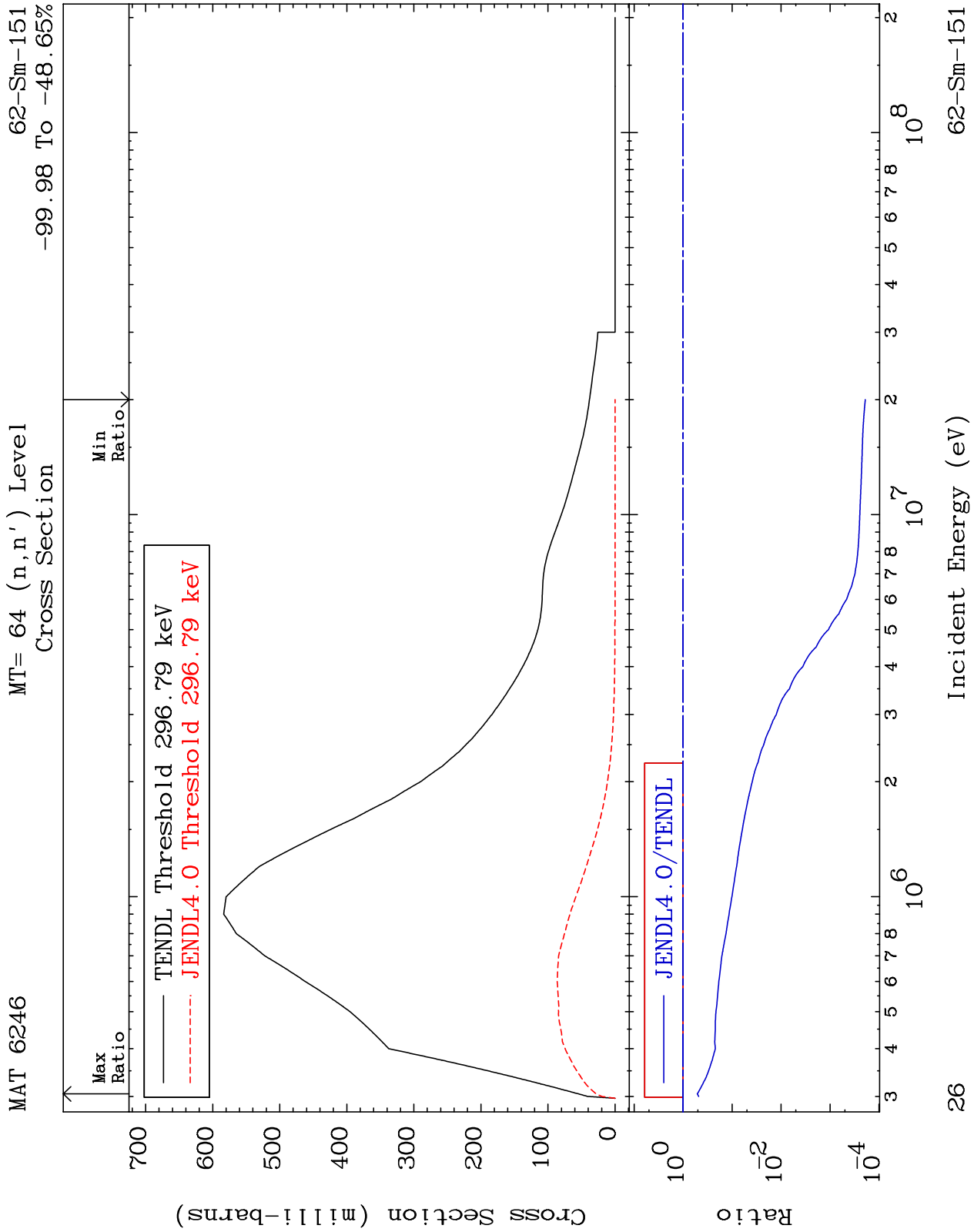


MAT 6246

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

62-Sm-151
-83.54 To 282.8 %

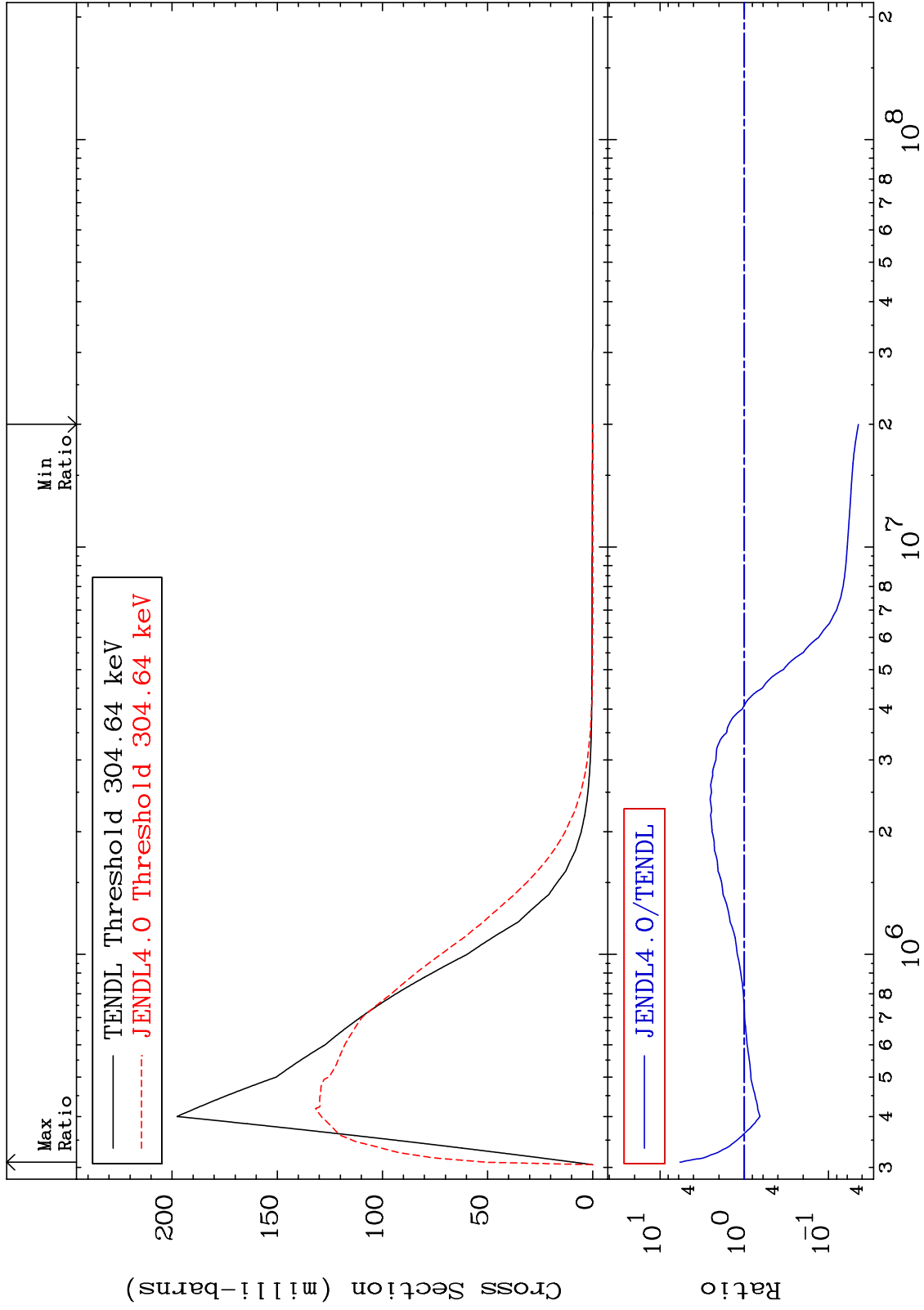




MAT 6246

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

62-Sm-151
-95.57 To 478.9 %



27

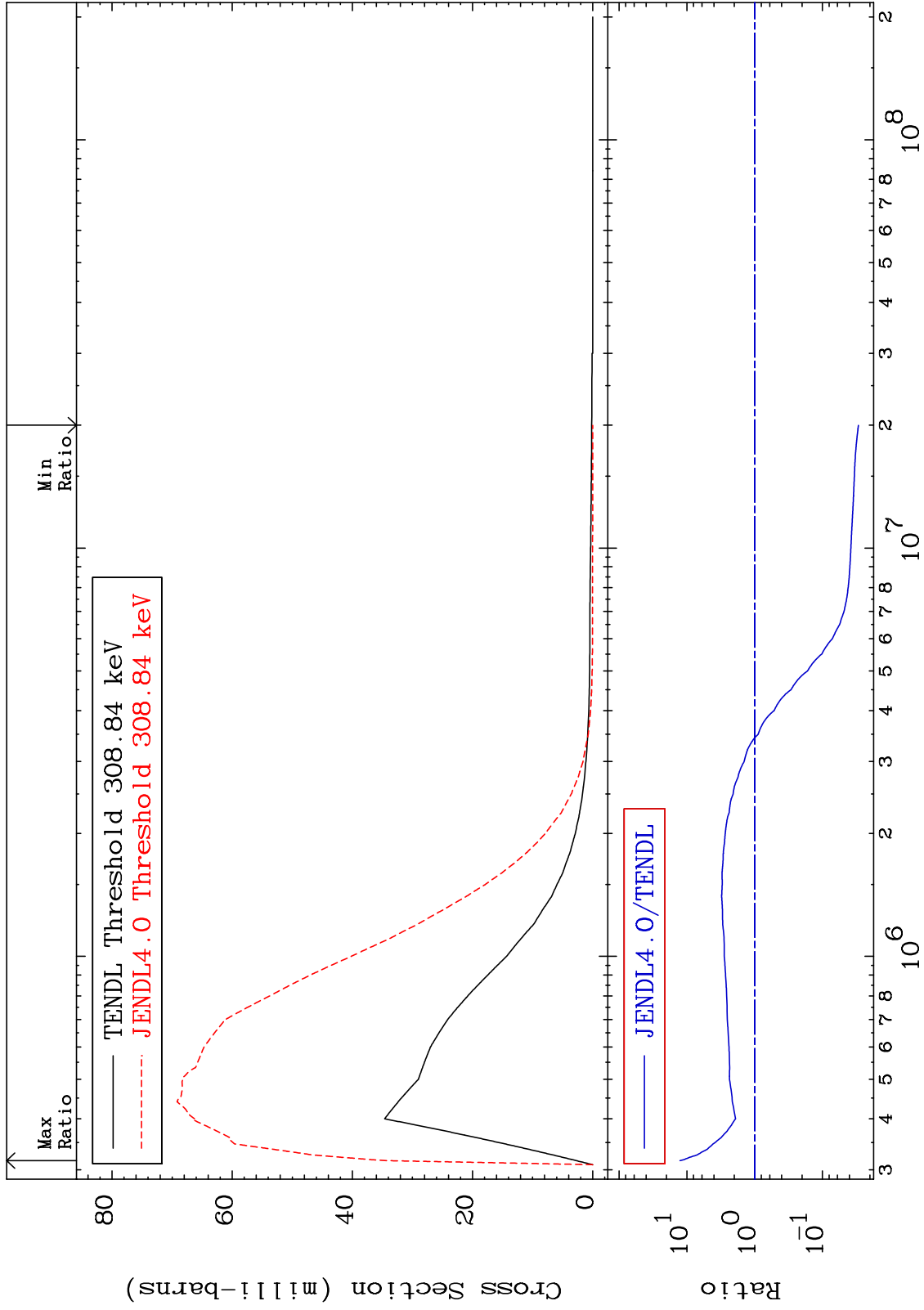
Incident Energy (eV)

62-Sm-151

MAT 6246

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

62-Sm-151
-97.05 To 1163. %



28

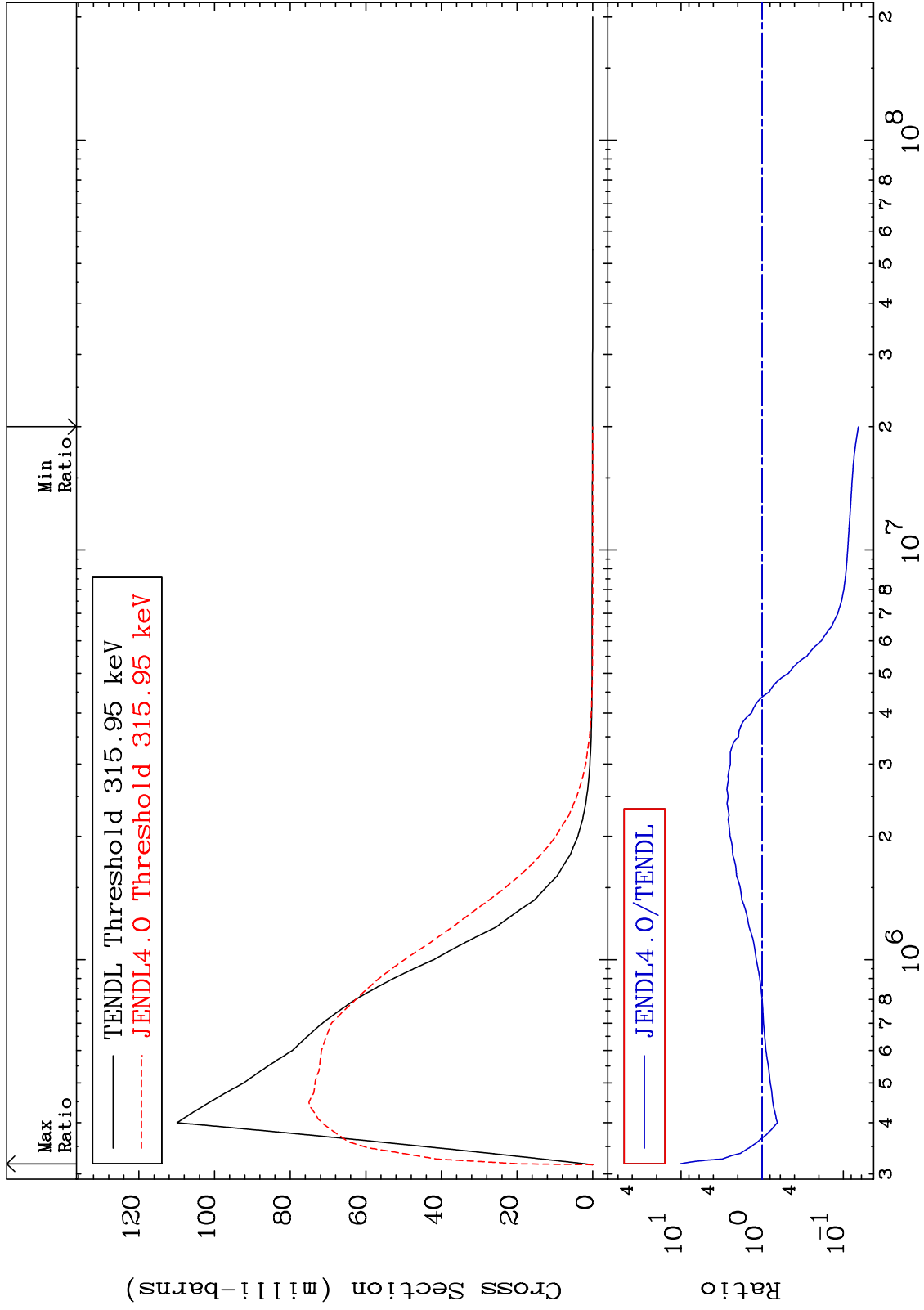
Incident Energy (eV)

62-Sm-151

MAT 6246

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

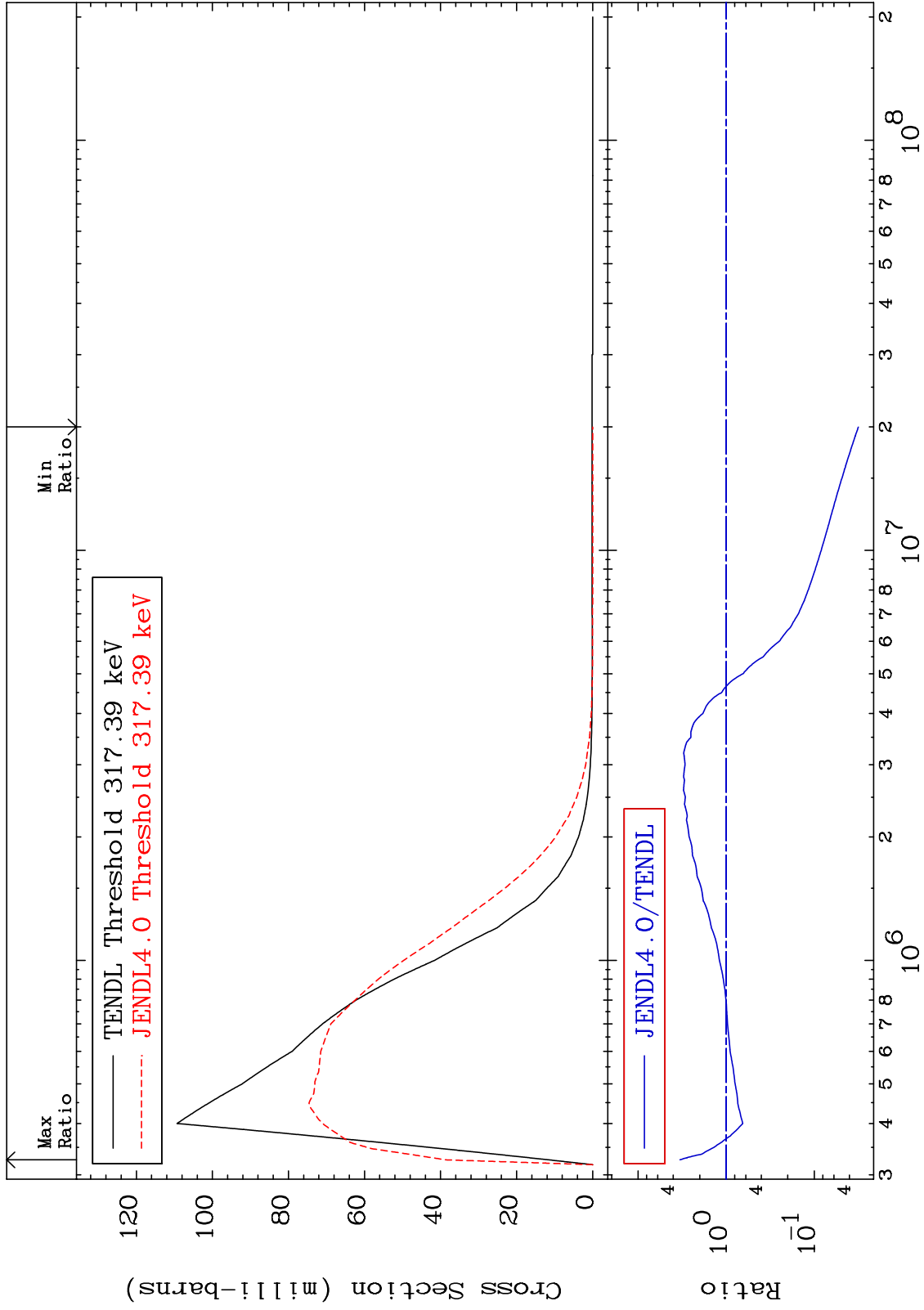
62-Sm-151
-93.48 To 929.7 %



MAT 6246

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

62-Sm-151
-96.84 To 234.4 %

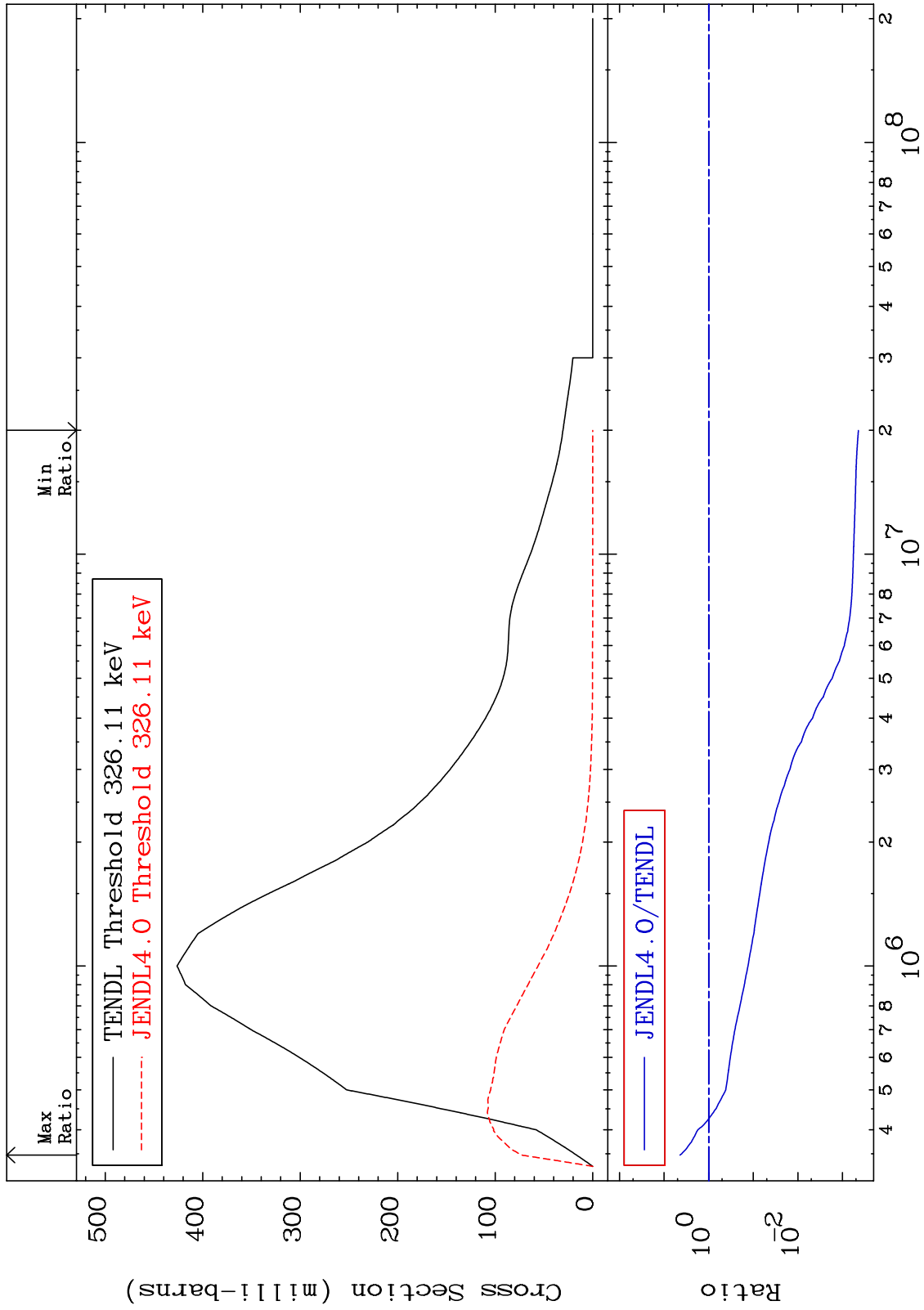


30

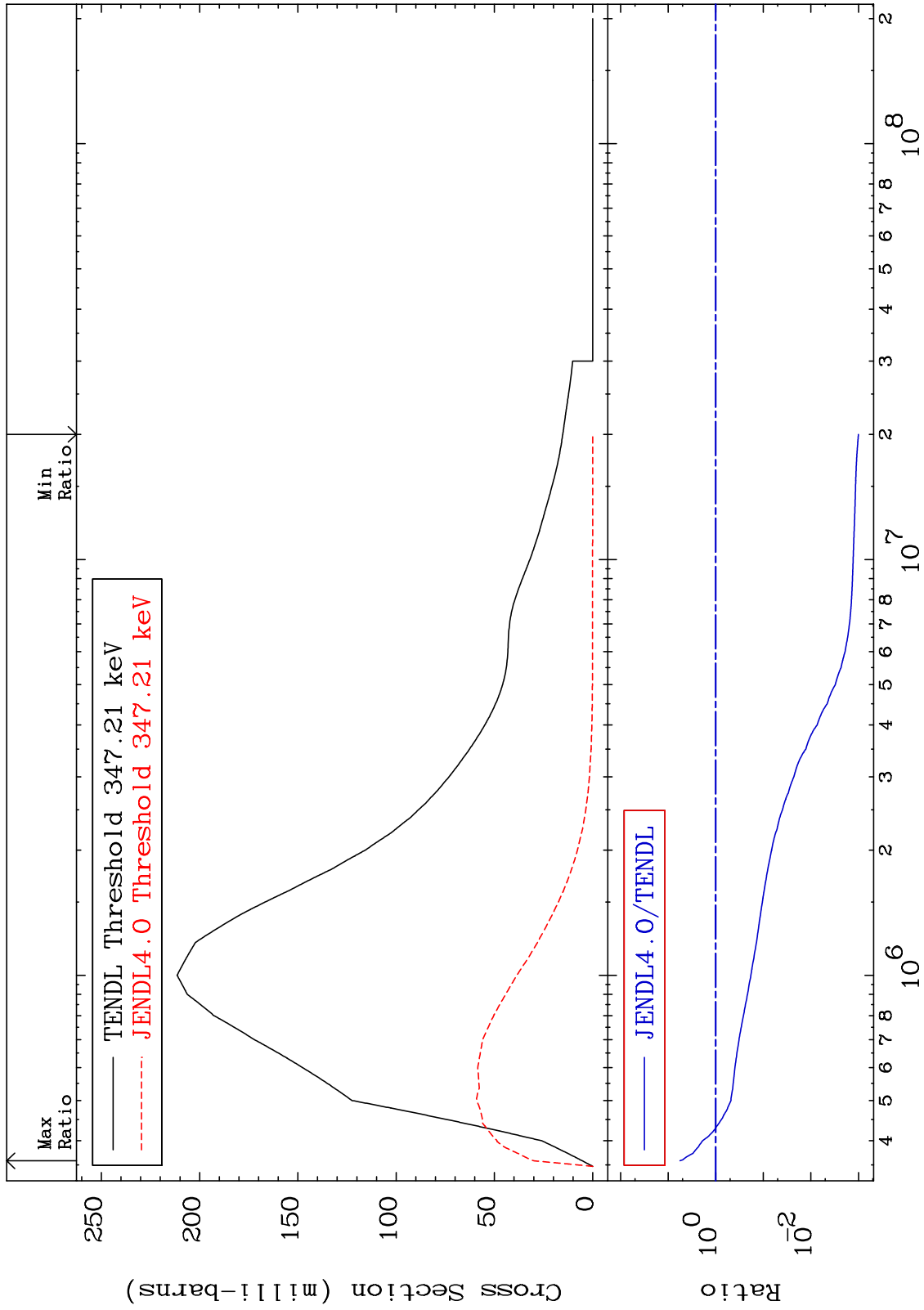
Incident Energy (eV)

62-Sm-151

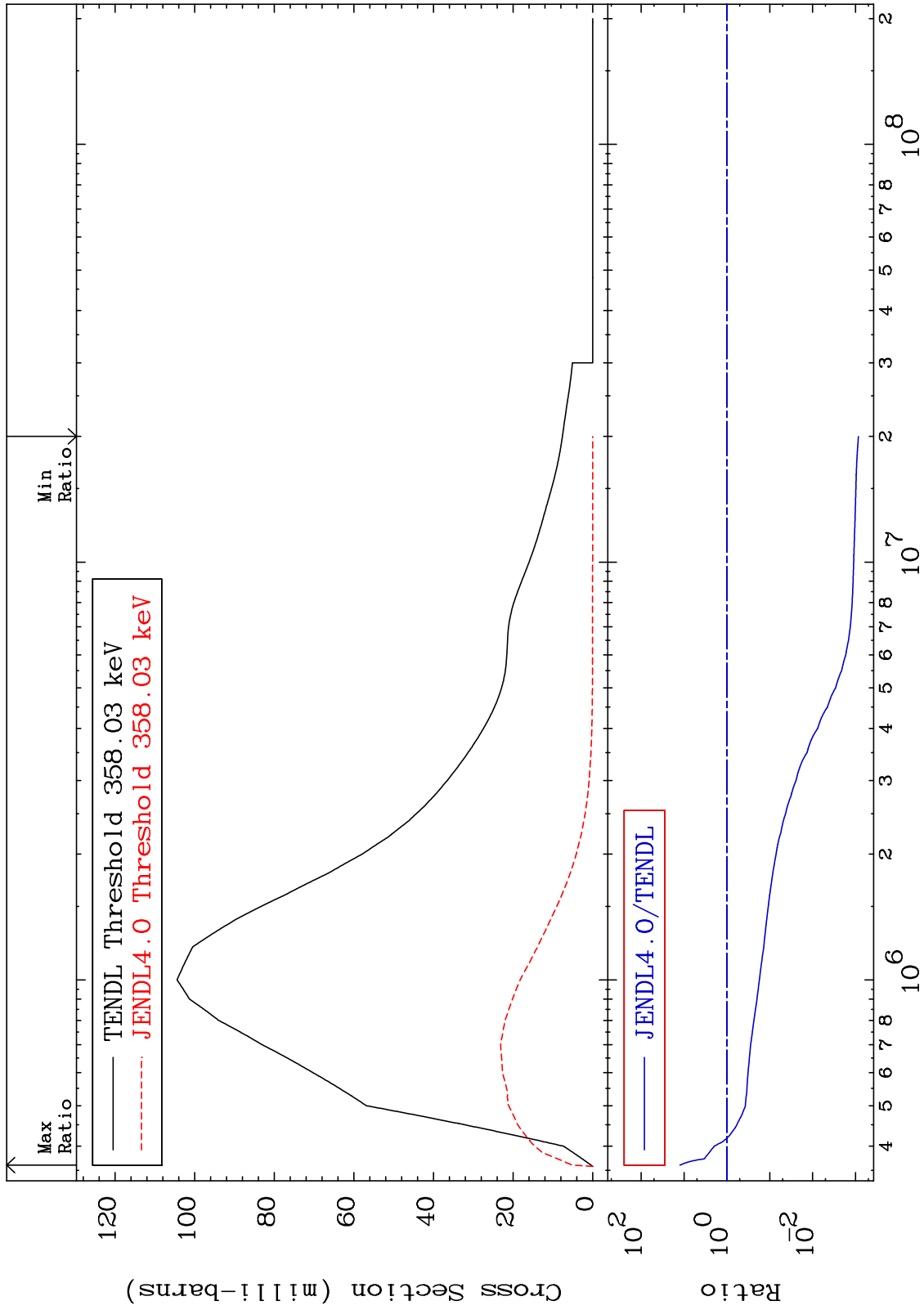
MAT 6246 MT= 69 (n,n') Level 62-Sm-151
 Cross Section -99.96 To 340.3 %



MAT 6246 MT= 70 (n,n') Level Cross Section 62-Sm-151 -99.90 To 463.5 %



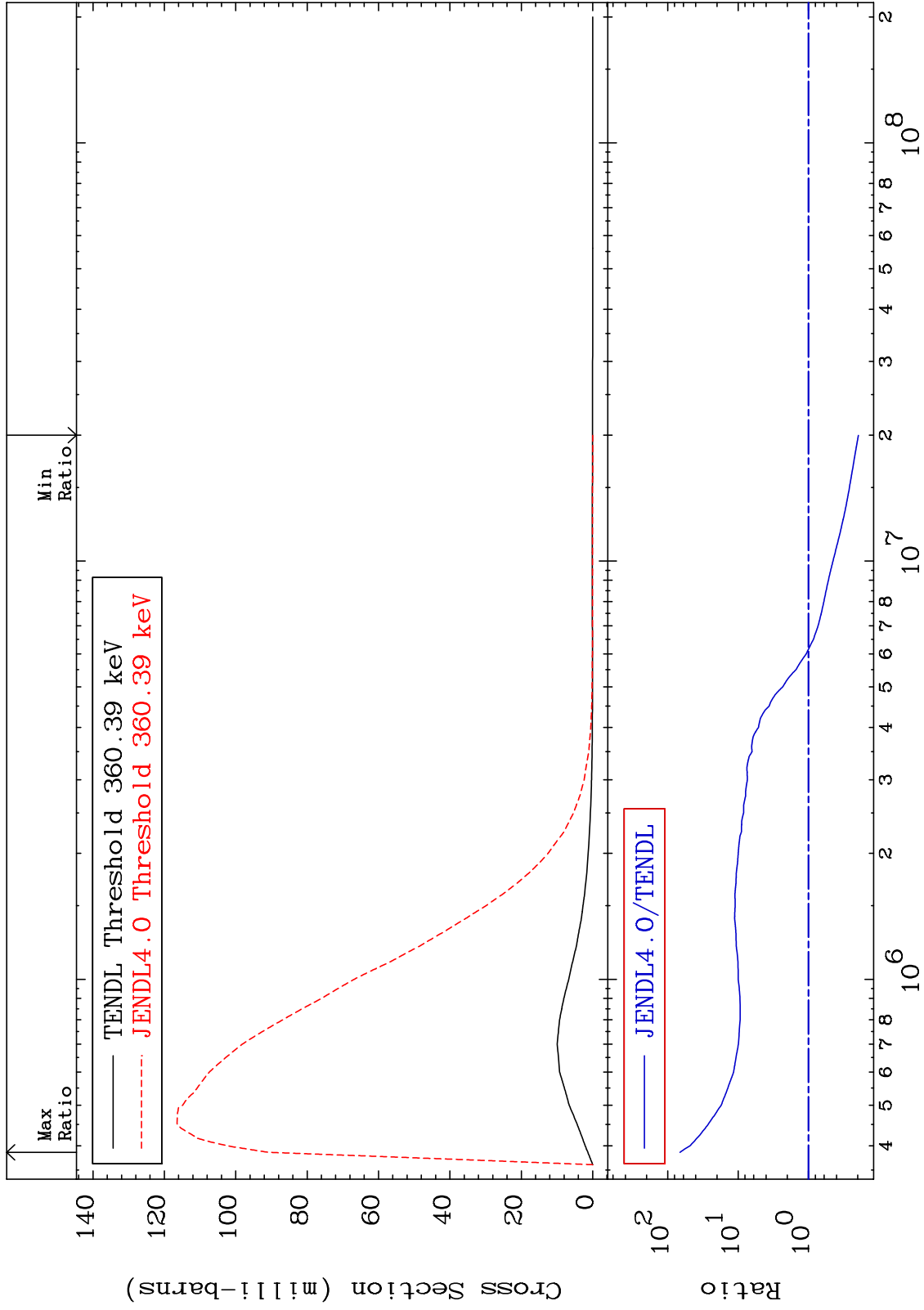
MAT 6246 MT= 71 (n,n') Level 62-Sm-151
 Cross Section -99.91 To 1141. %



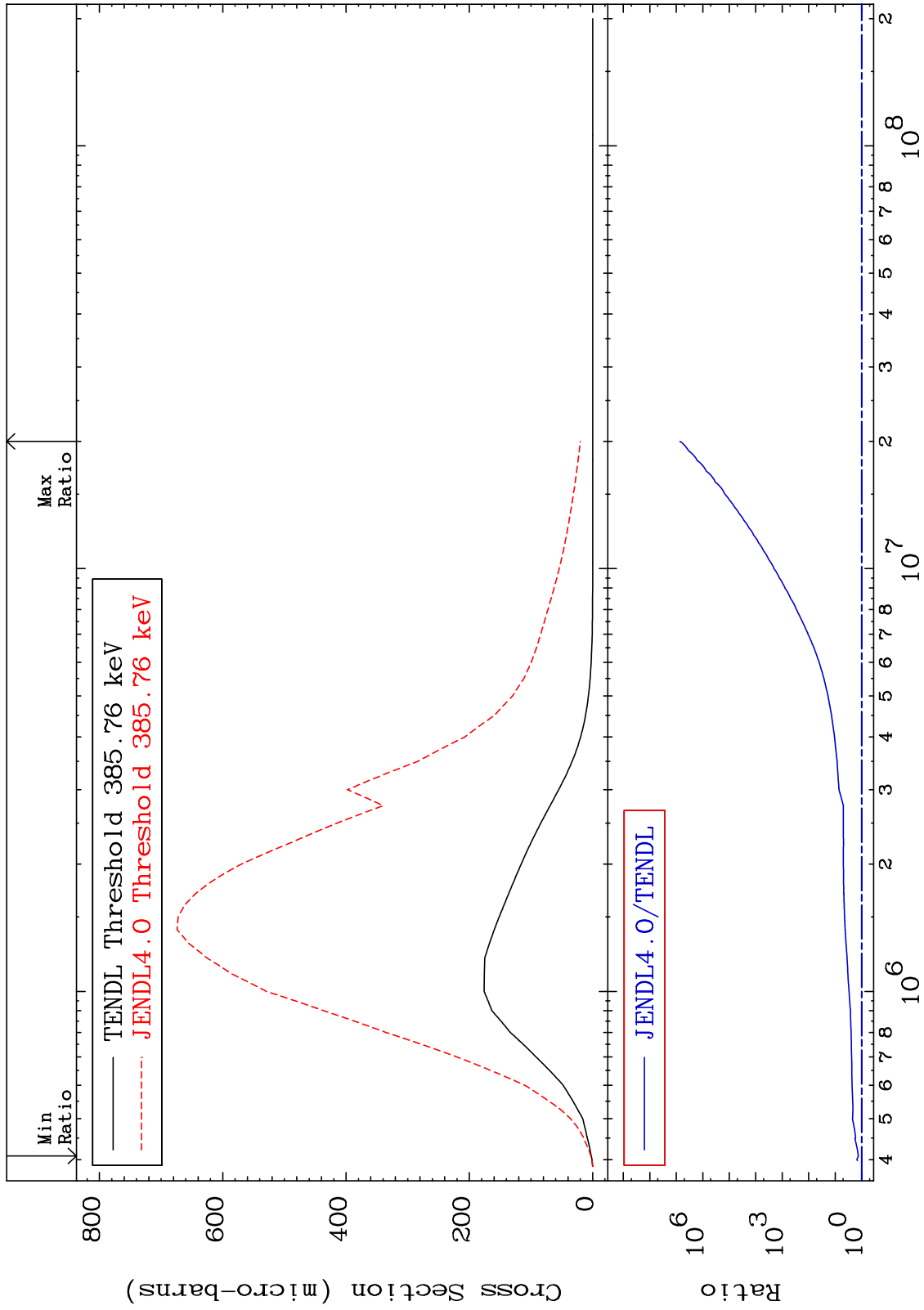
MAT 6246

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

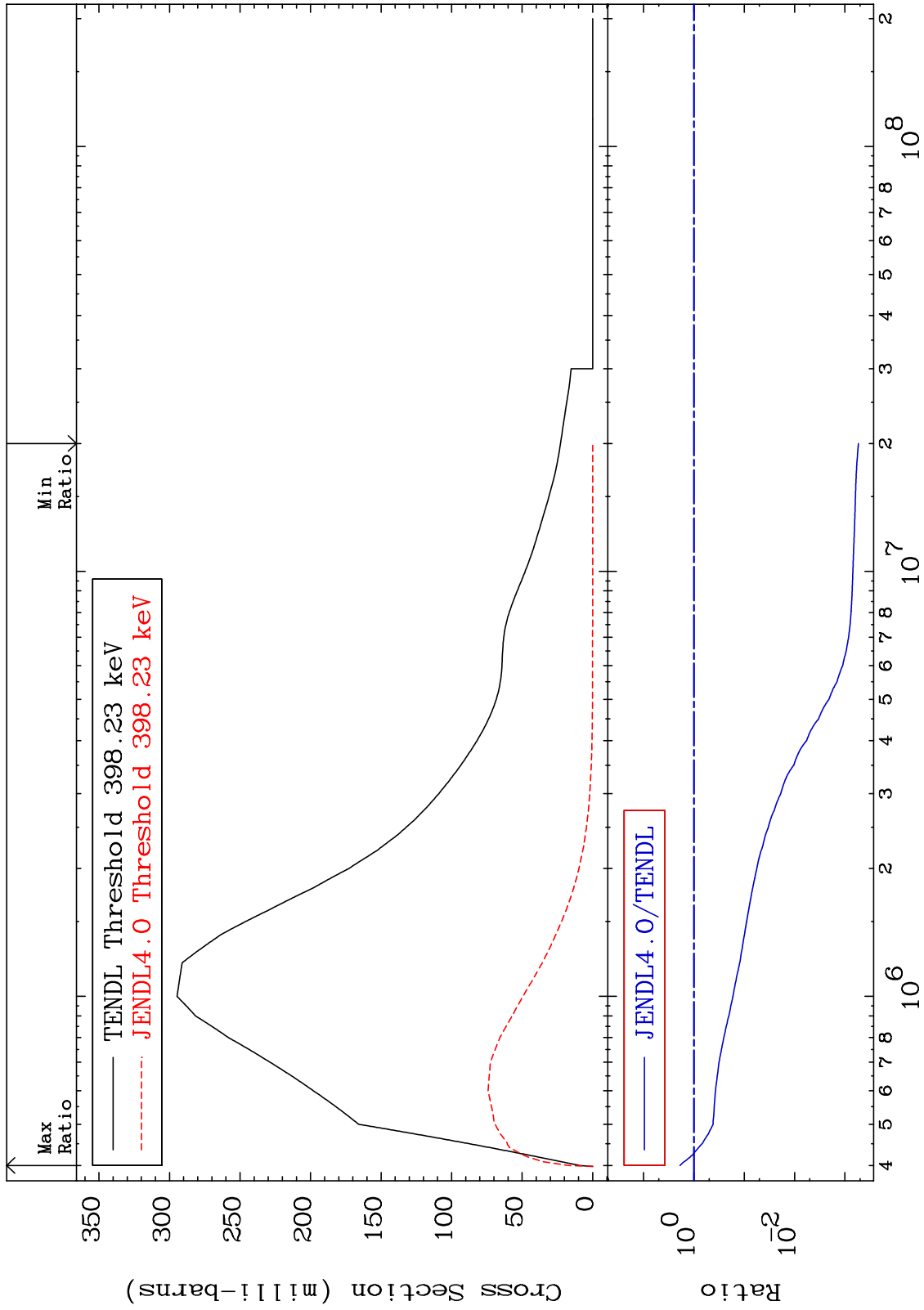
62-Sm-151
-80.49 To 6593. %



MAT 6246 MT= 73 (n,n') Level 62-Sm-151
 Cross Section 33.15 To 9999. %



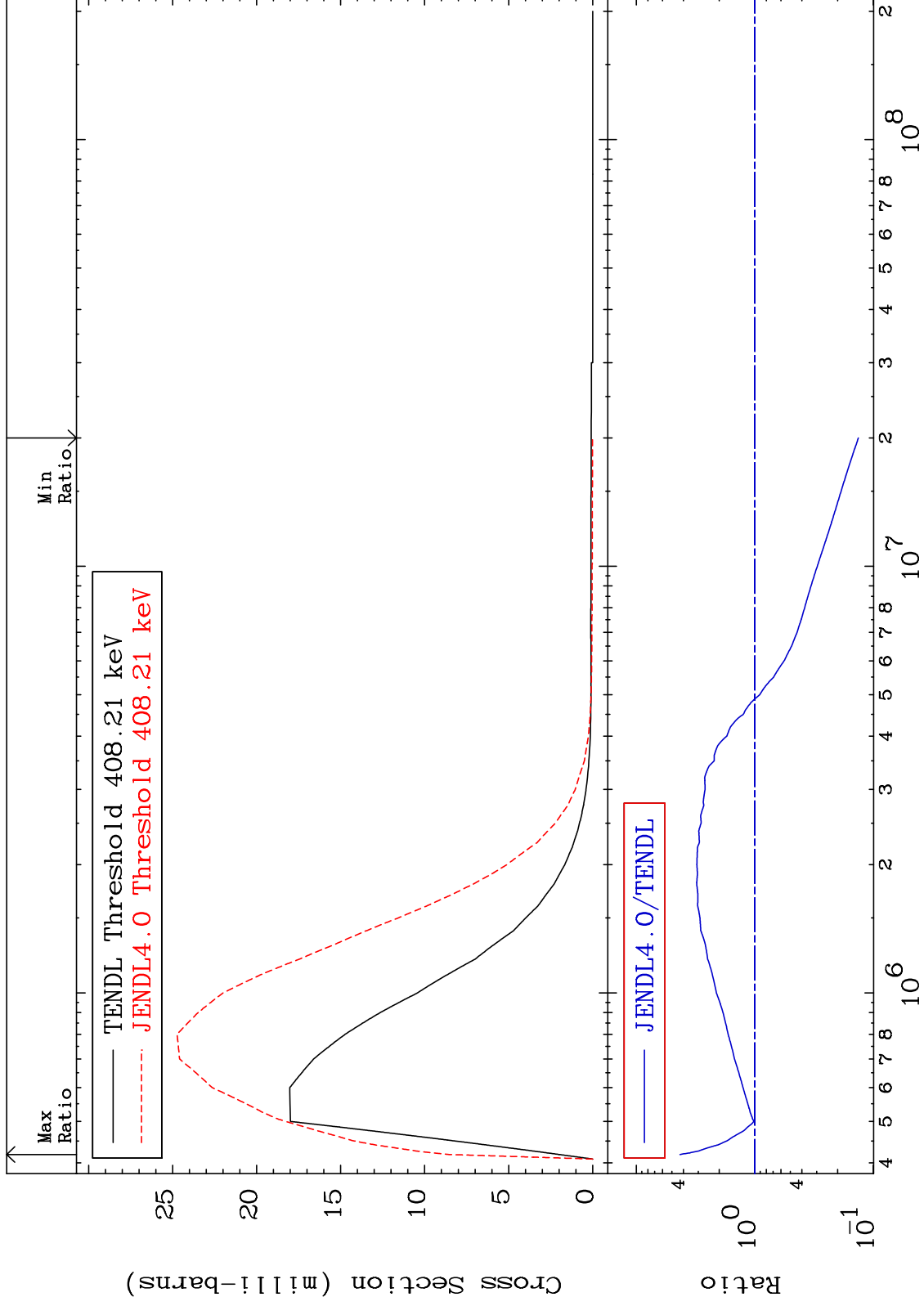
MAT 6246 MT= 74 (n,n') Level 62-Sm-151
 Cross Section -99.95 To 88.92 %



MAT 6246

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

62-Sm-151
-86.67 To 327.6 %

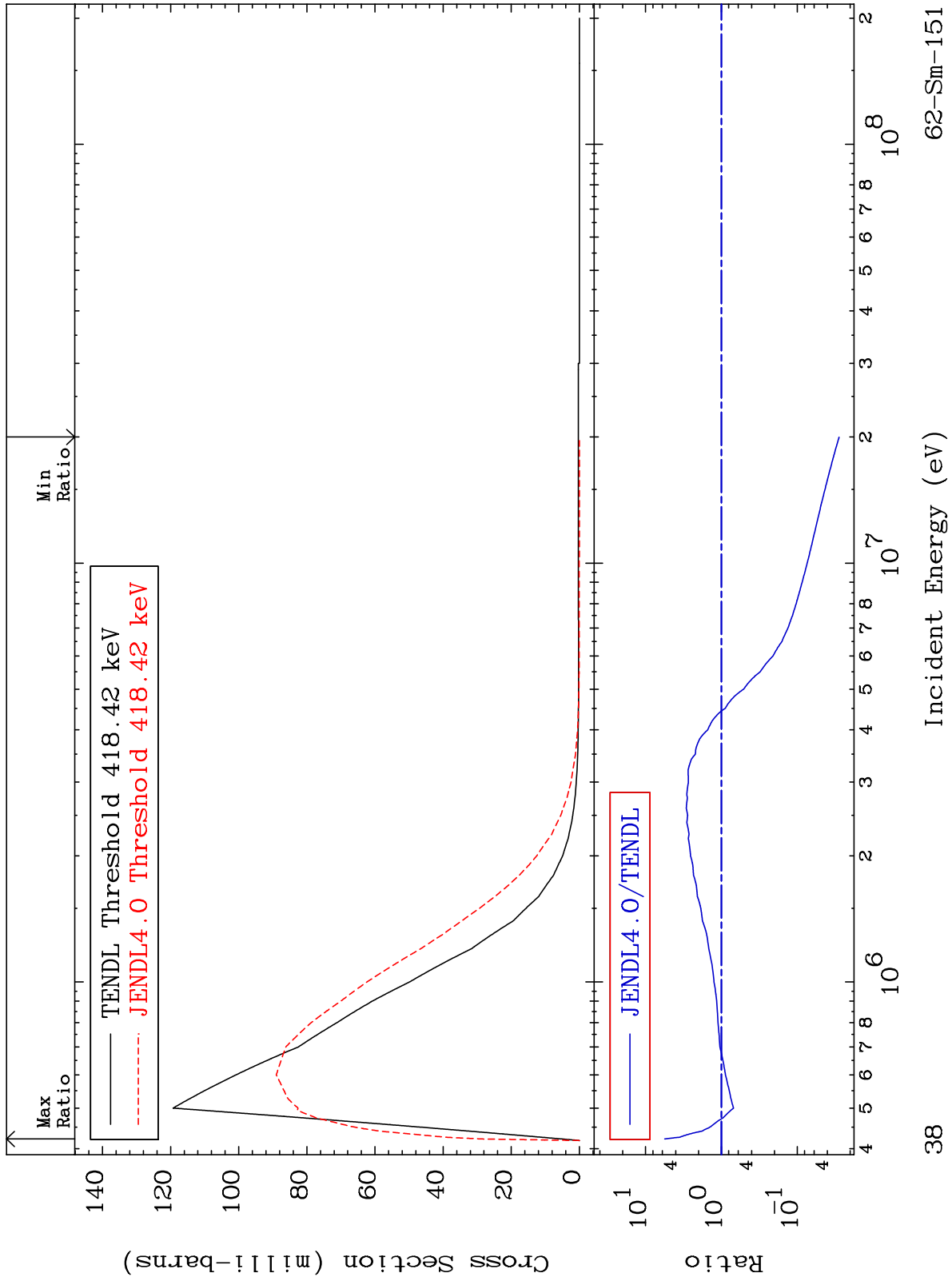


37

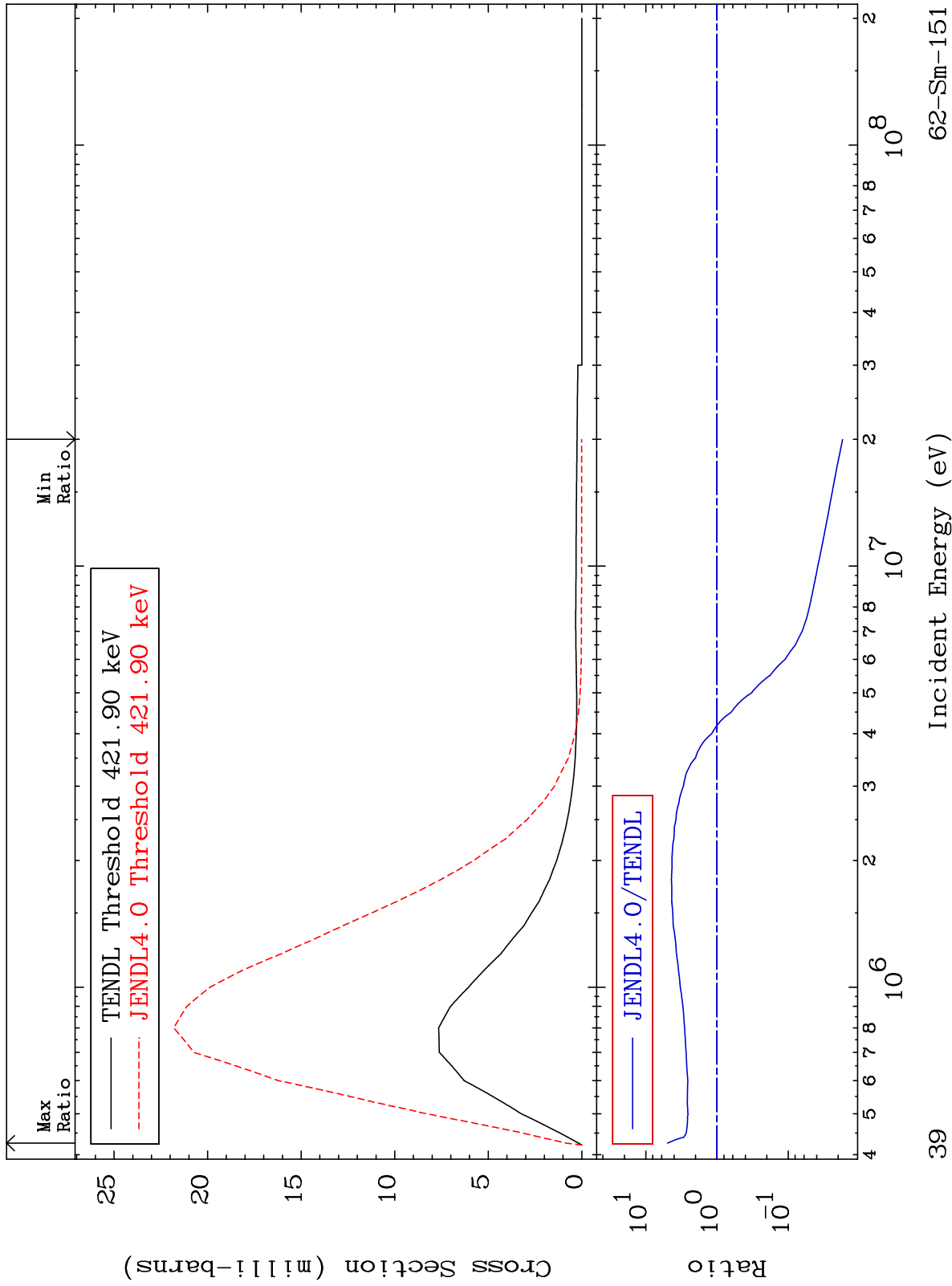
Incident Energy (eV)

62-Sm-151

MAT 6246 MT= 76 (n,n') Level 62-Sm-151
 Cross Section -97.20 To 458.3 %



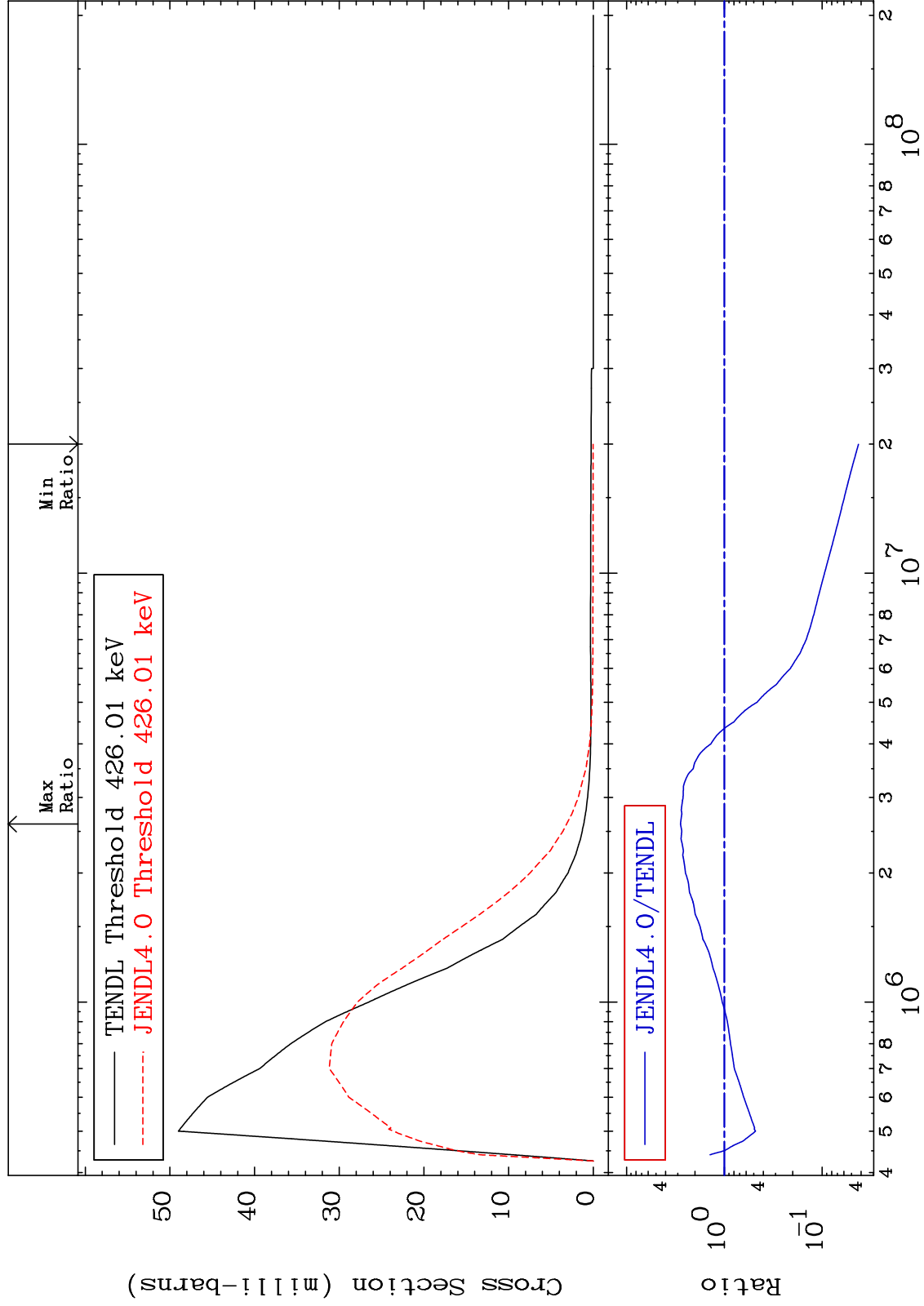
MAT 6246 MT= 77 (n,n') Level 62-Sm-151
 Cross Section -98.28 To 395.0 %



MAT 6246

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

62-Sm-151
-95.75 To 181.2 %

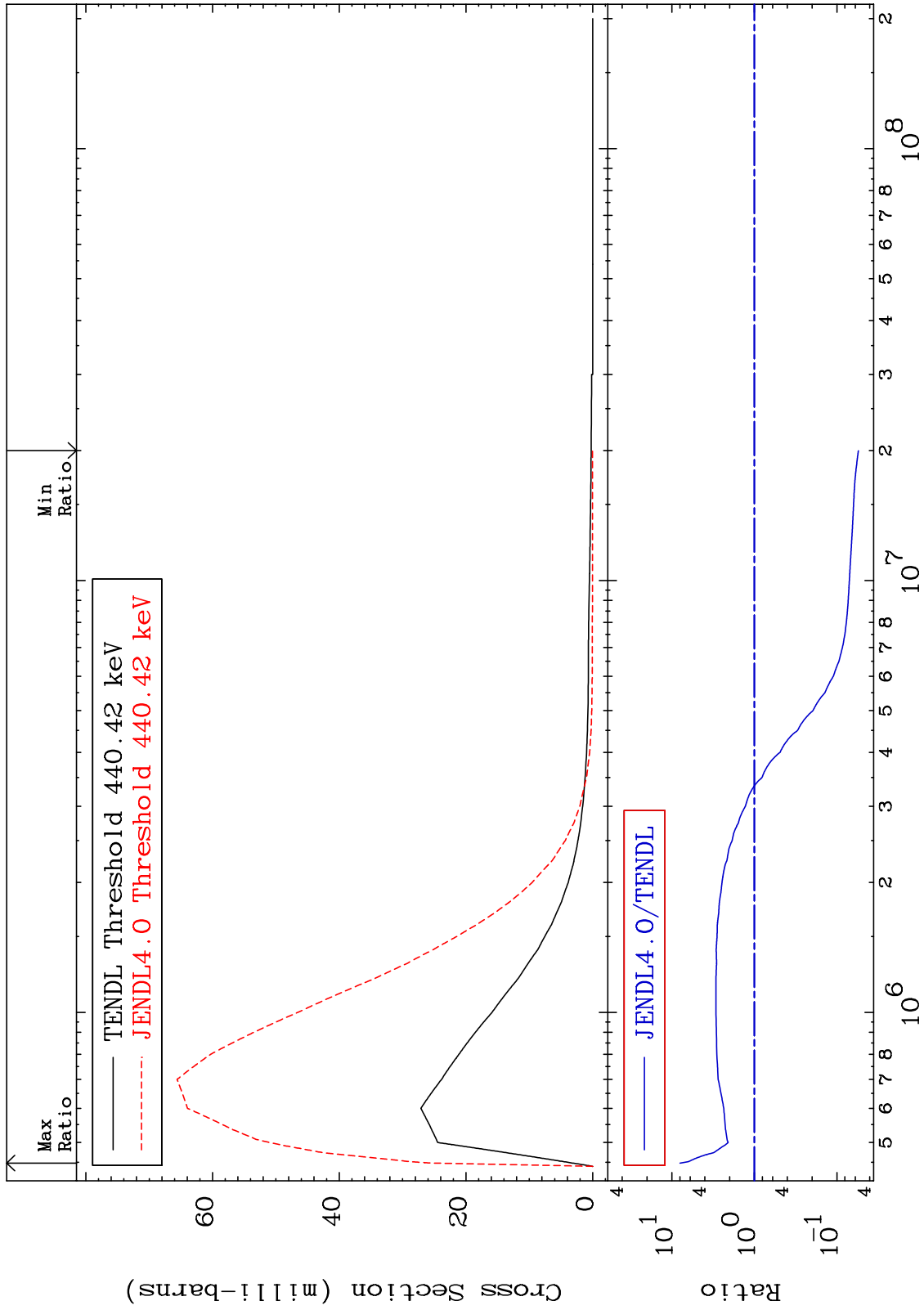


40

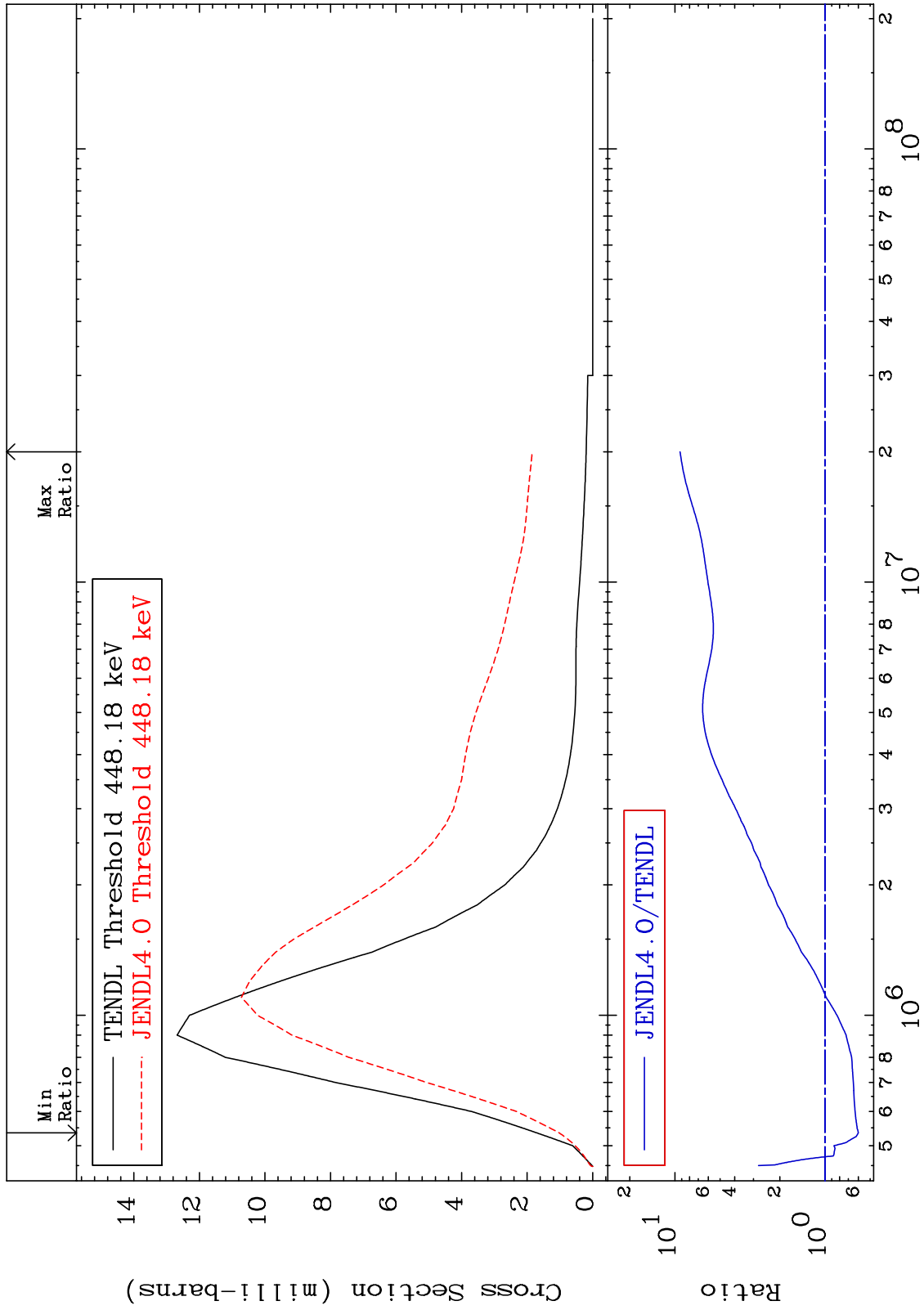
Incident Energy (eV)

62-Sm-151

MAT 6246 MT= 79 (n,n') Level Cross Section 62-Sm-151
 -94.51 To 697.5 %



MAT 6246 MT= 80 (n,n') Level 62-Sm-151
 Cross Section -40.12 To 824.8 %

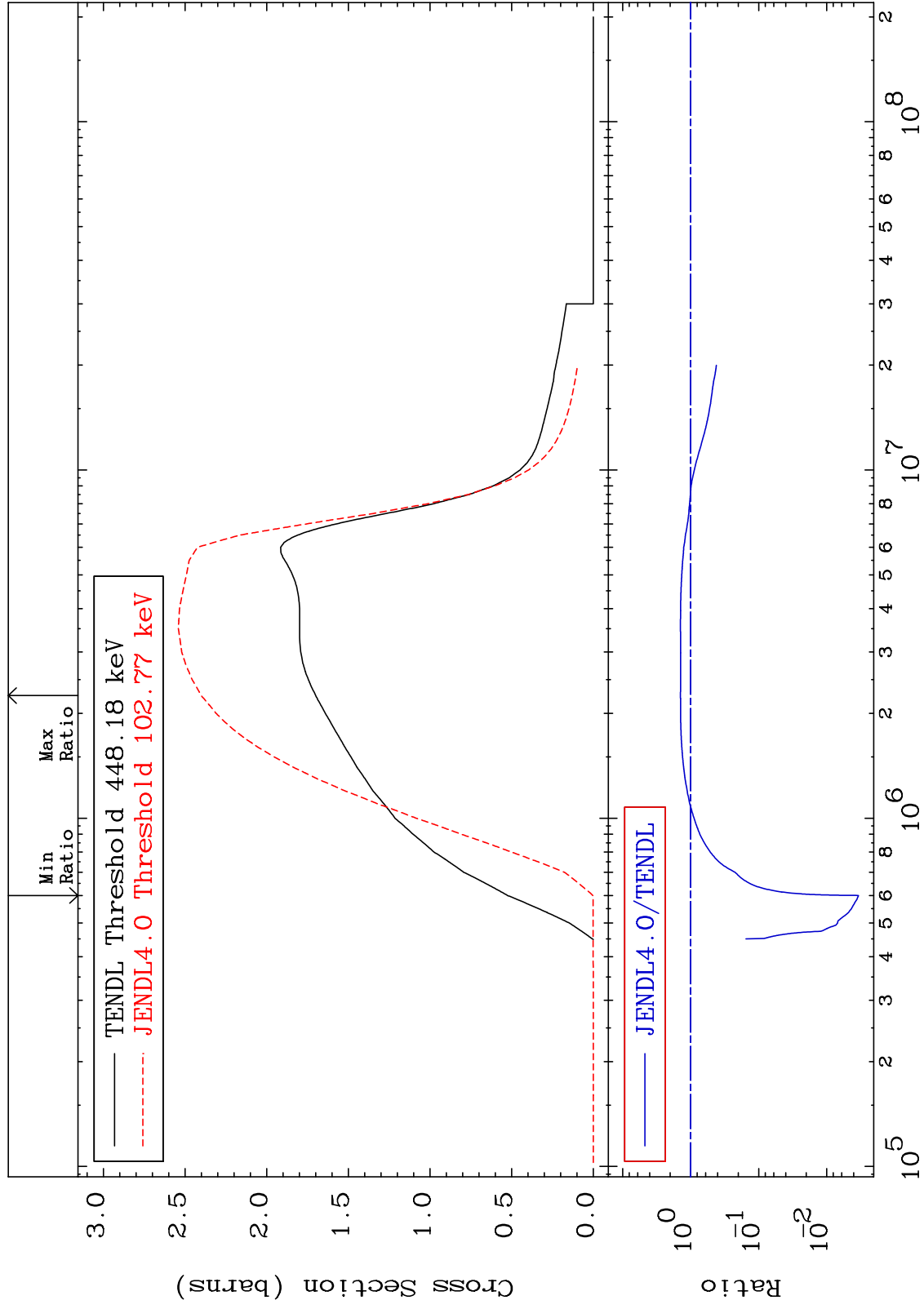


42 Incident Energy (eV) 62-Sm-151

MAT 6246

(n,n') Continuum
Cross Section

62-Sm-151
-99.66 To 41.30 %



62-Sm-151

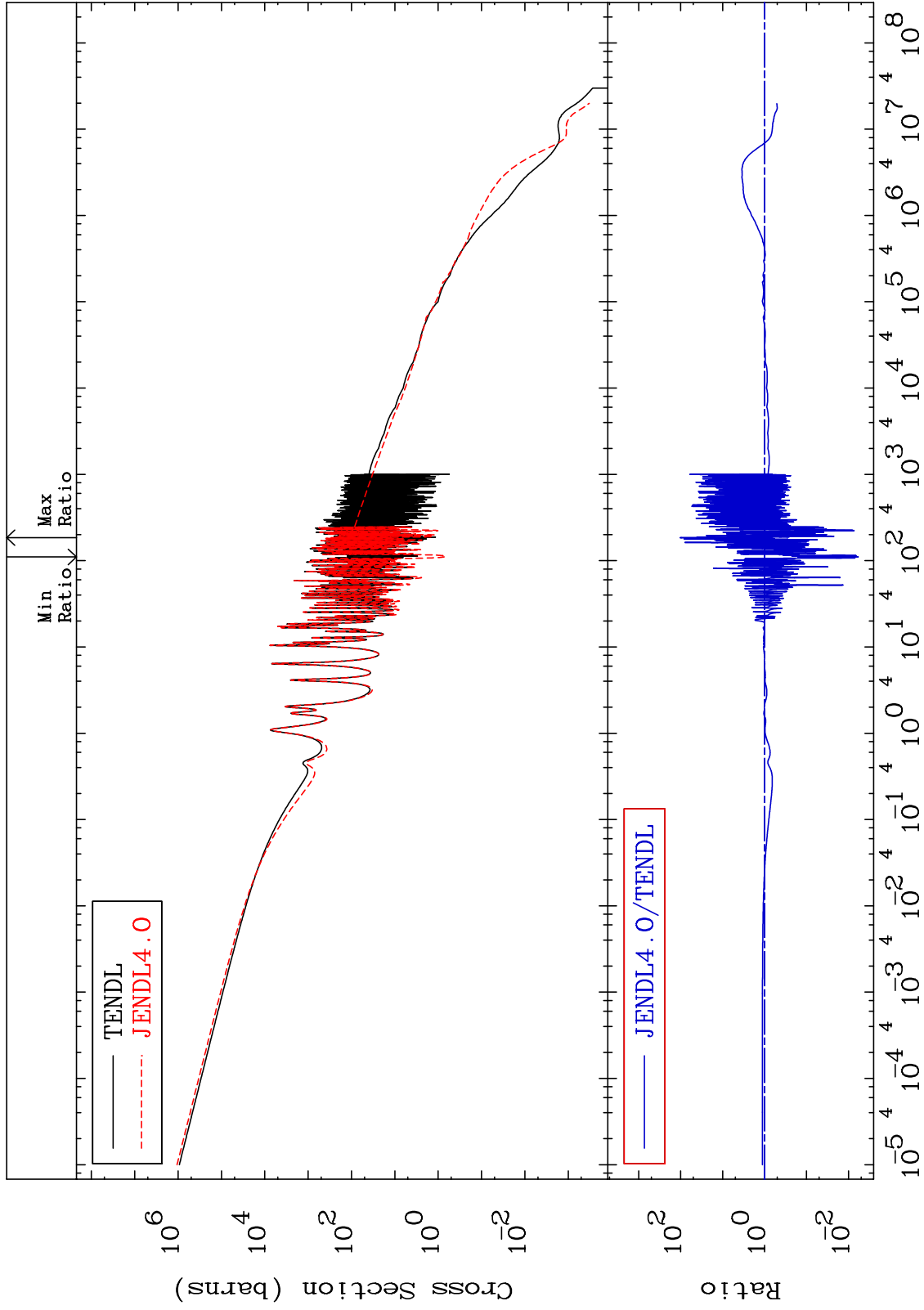
Incident Energy (eV)

43

MAT 6246

(n, γ)
Cross Section

62-Sm-151
-99.42 To 9999. %



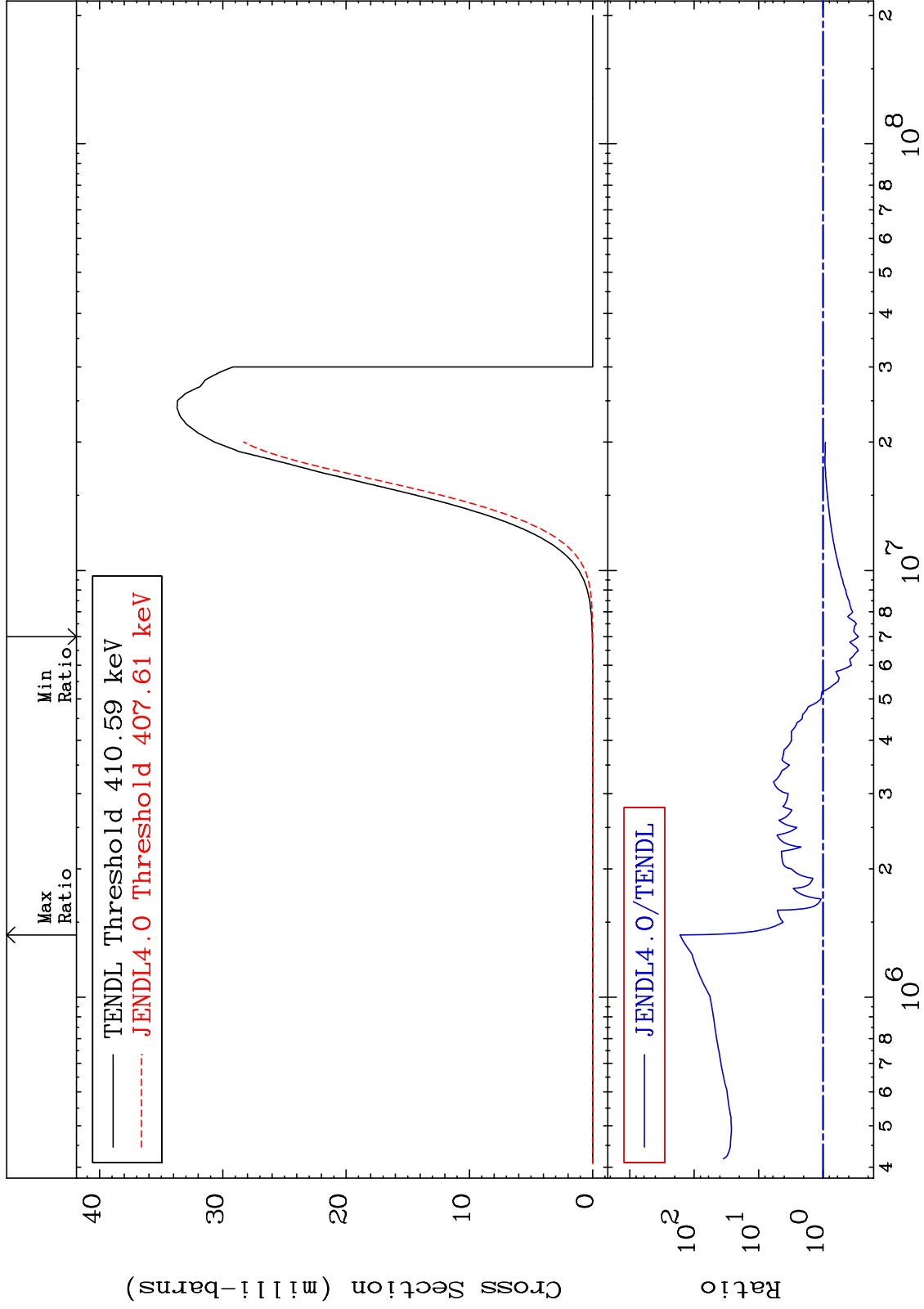
MAT 6246

(n,p)

62-Sm-151

Cross Section

-71.67 To 9999. %



45

Incident Energy (eV)

62-Sm-151

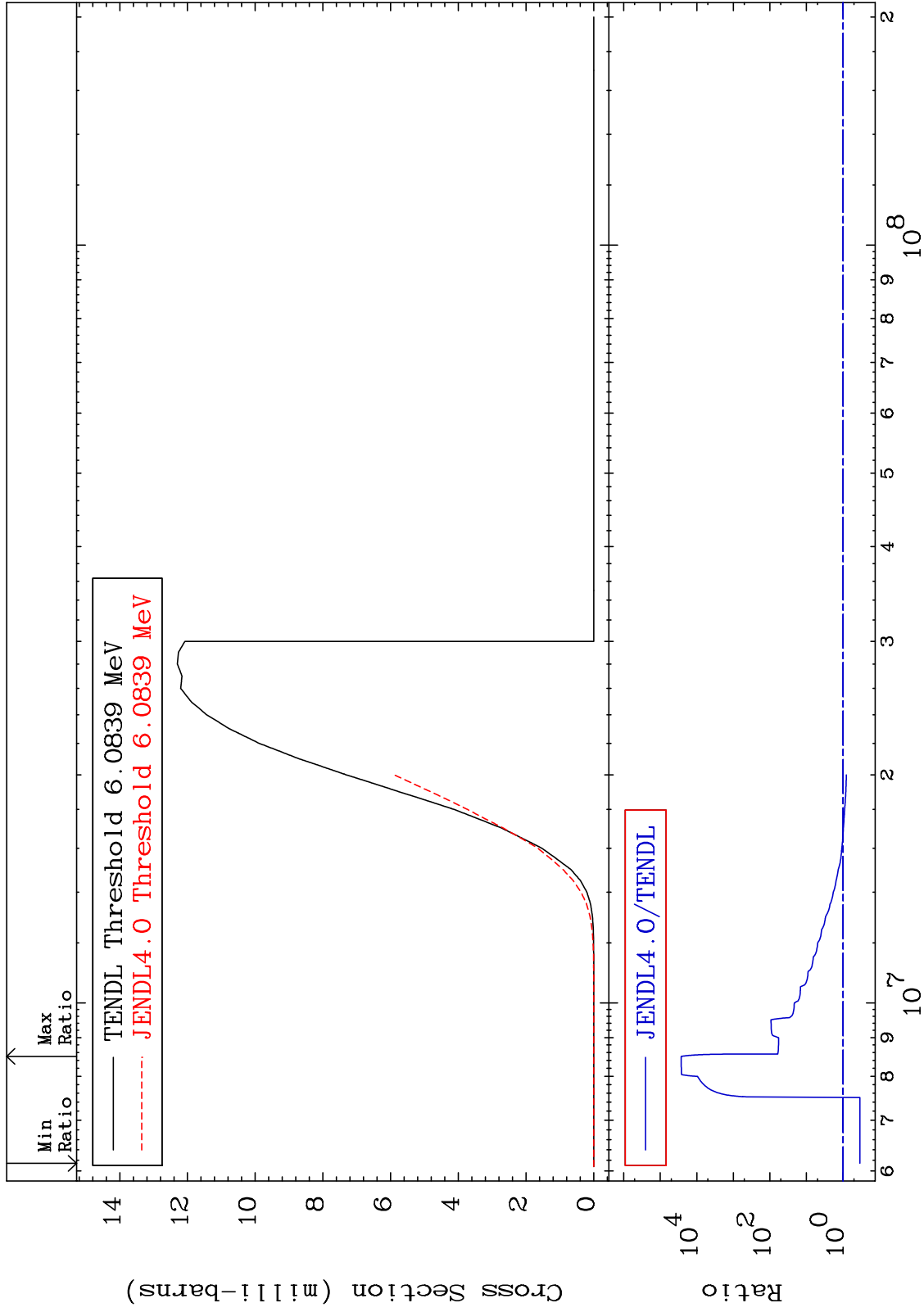
MAT 6246

(n,d)

62-Sm-151

Cross Section

-65.58 To 9999. %

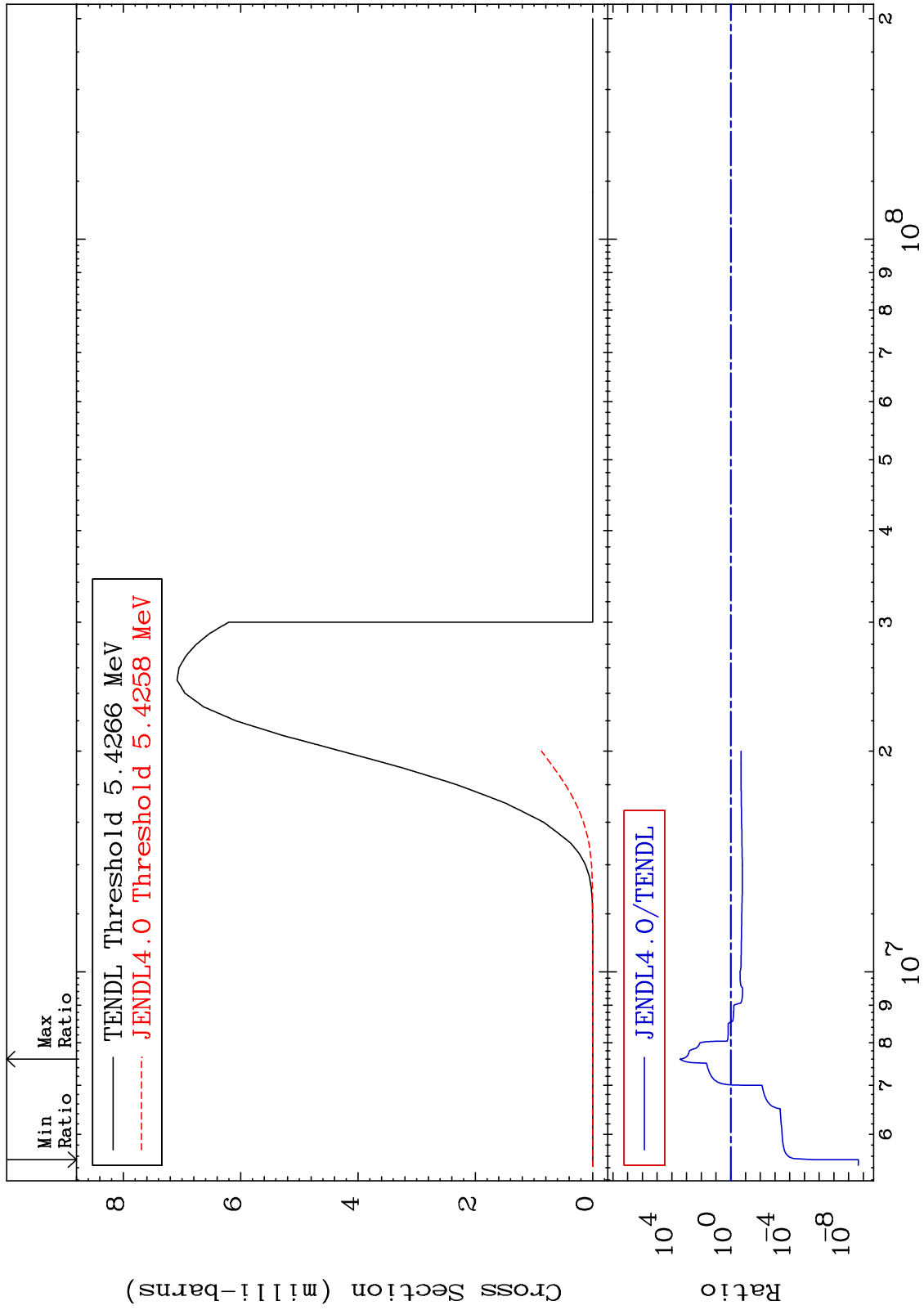


46

Incident Energy (eV)

62-Sm-151

MAT 6246 (n, t) Cross Section 62-Sm-151 -100.0 To 9999. %



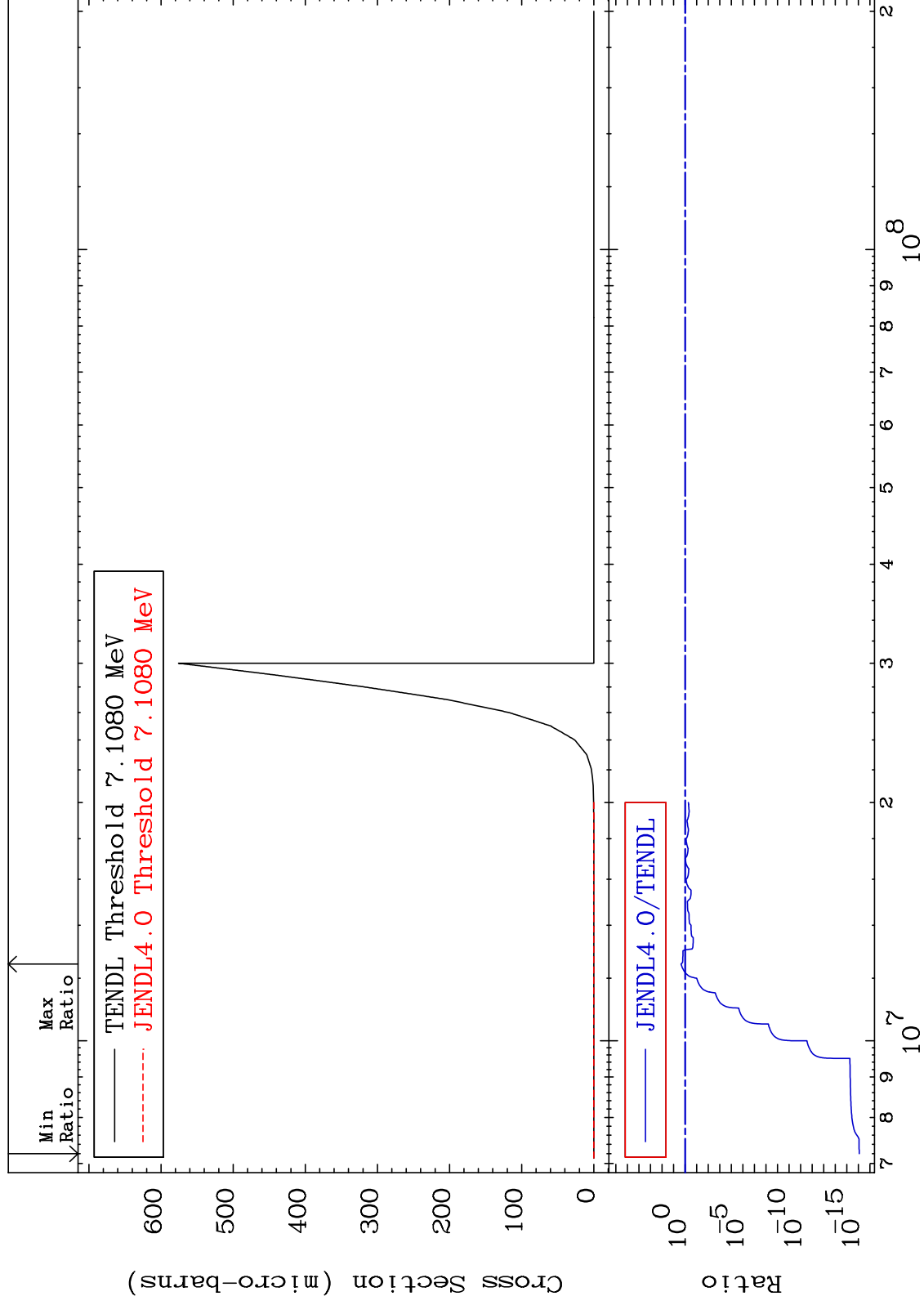
MAT 6246

(n, He-3)

62-Sm-151

Cross Section

-100.0 To 127.2 %



48

Incident Energy (eV)

62-Sm-151

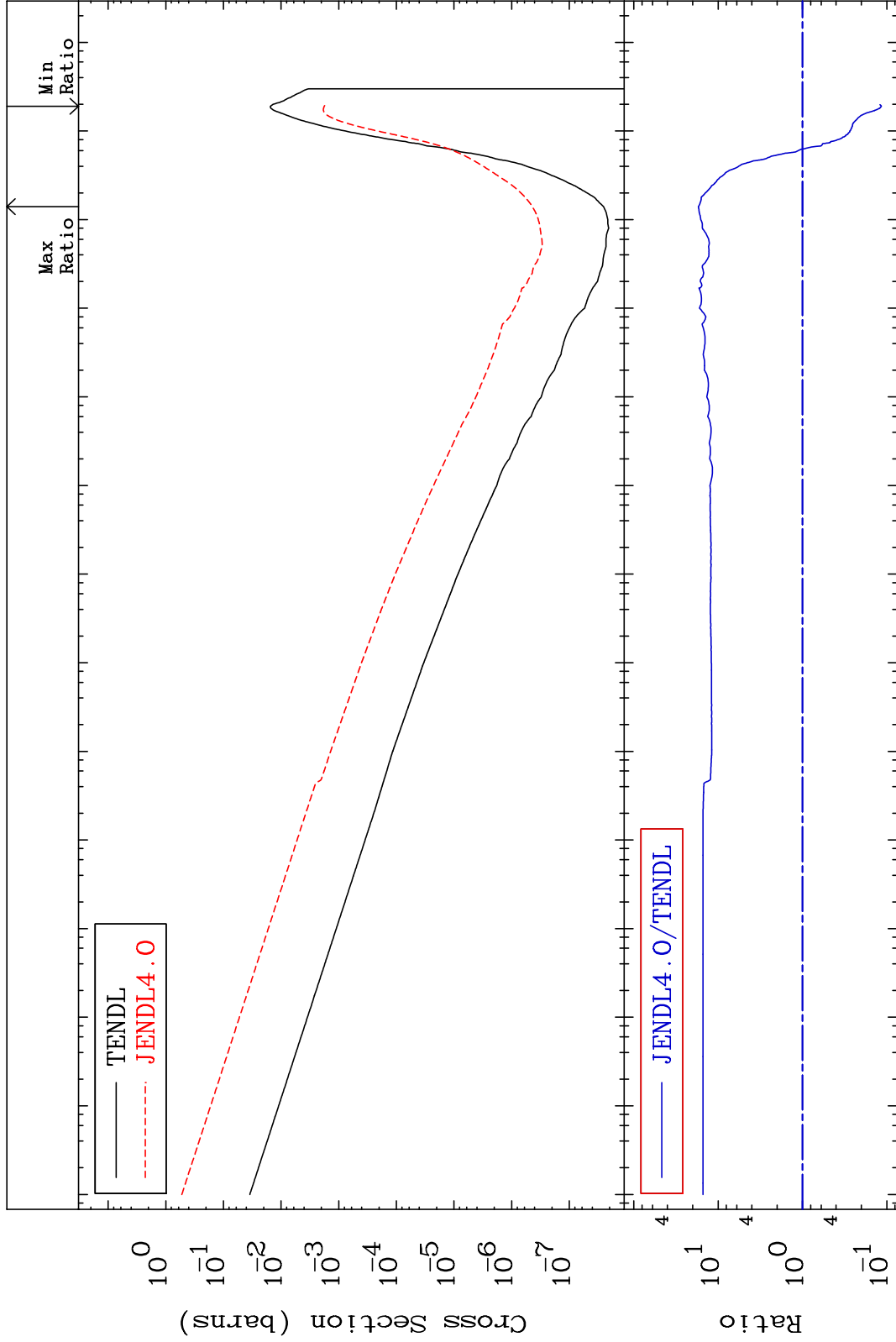
MAT 6246

(n, α)

62-Sm-151

Cross Section

-88.45 To 1617. %



49

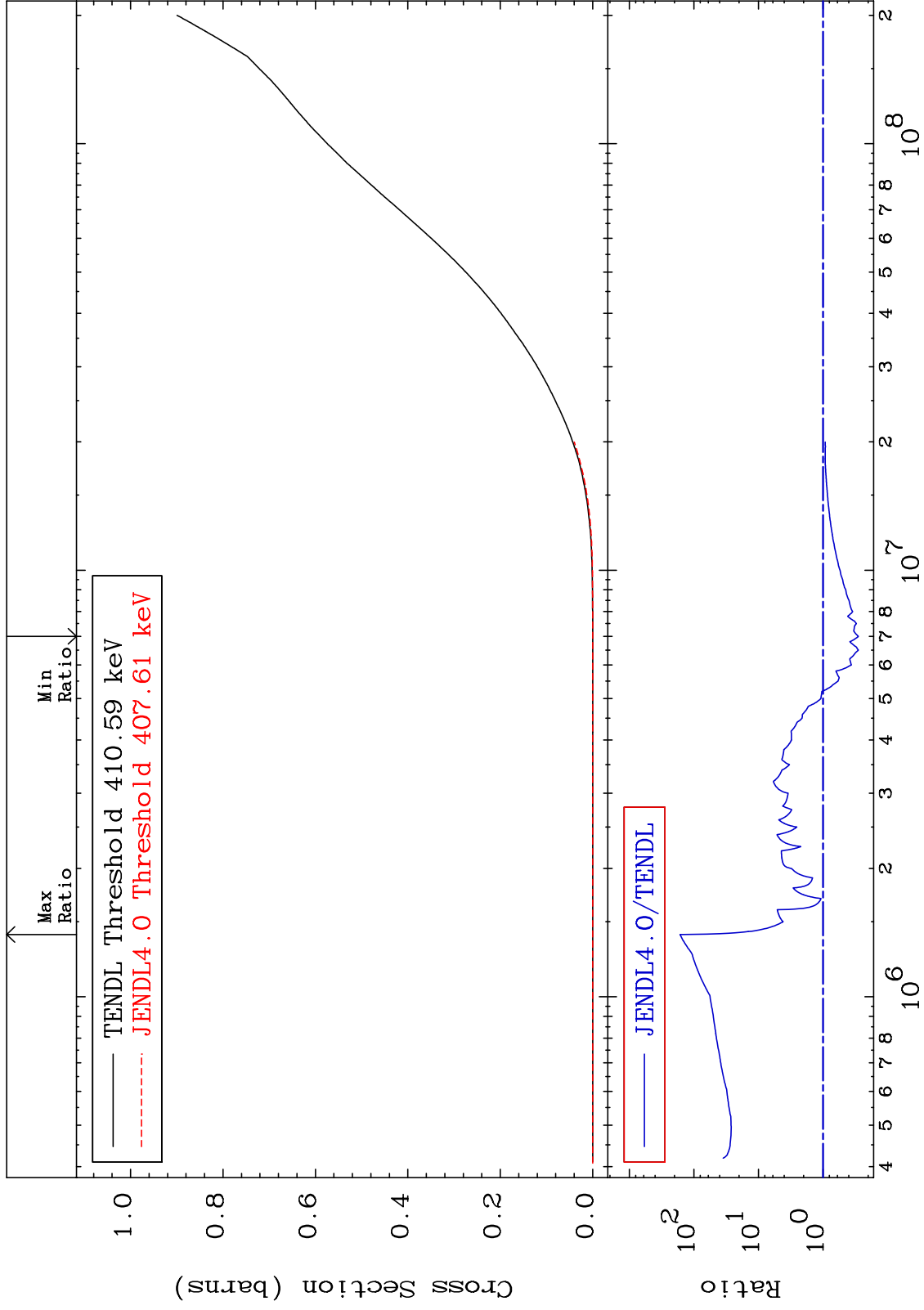
Incident Energy (eV)

62-Sm-151

MAT 6246

Hydrogen Production
Cross Section

62-Sm-151
-71.67 To 9999. %



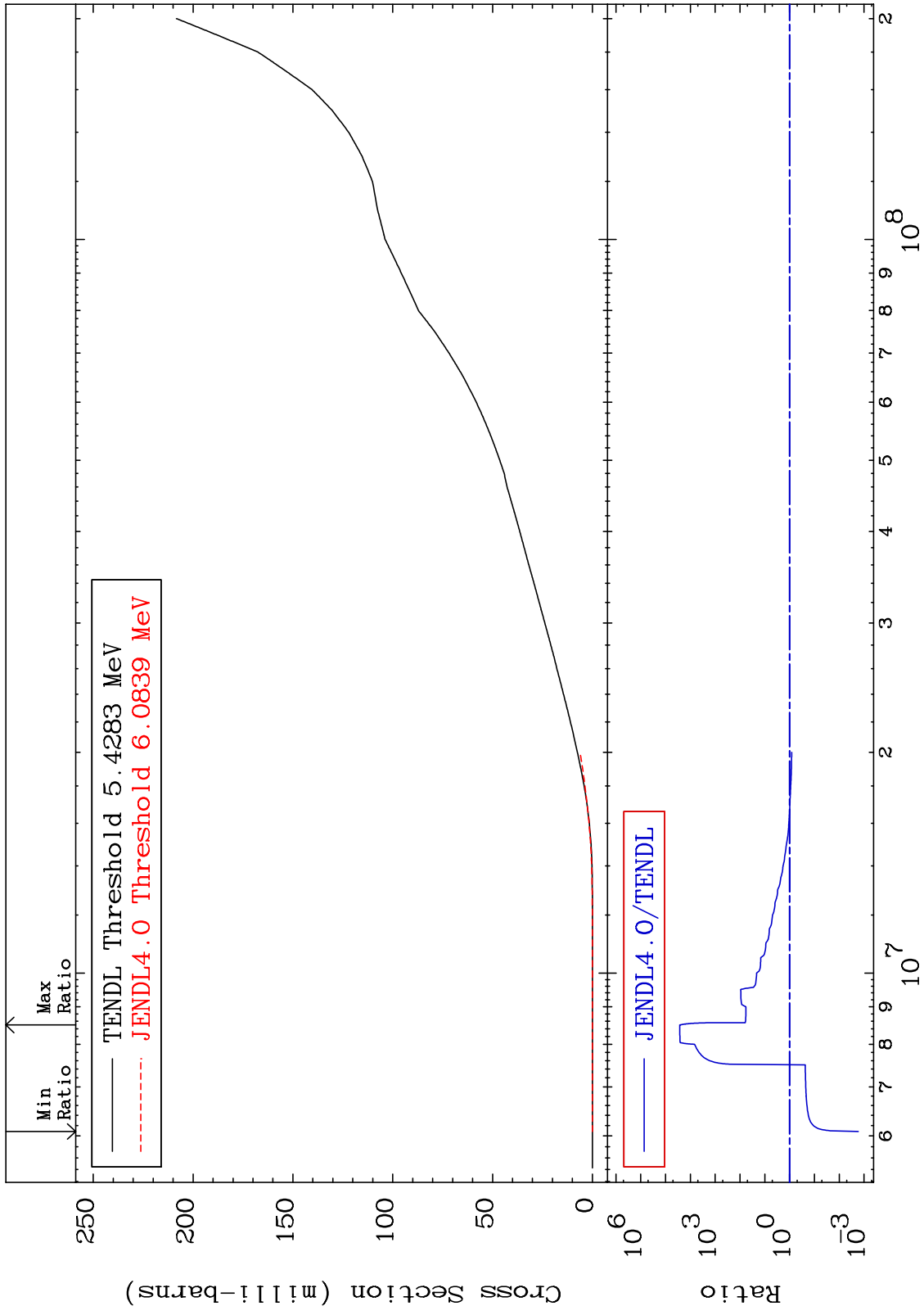
50

62-Sm-151

MAT 6246

Deuterium Production
Cross Section

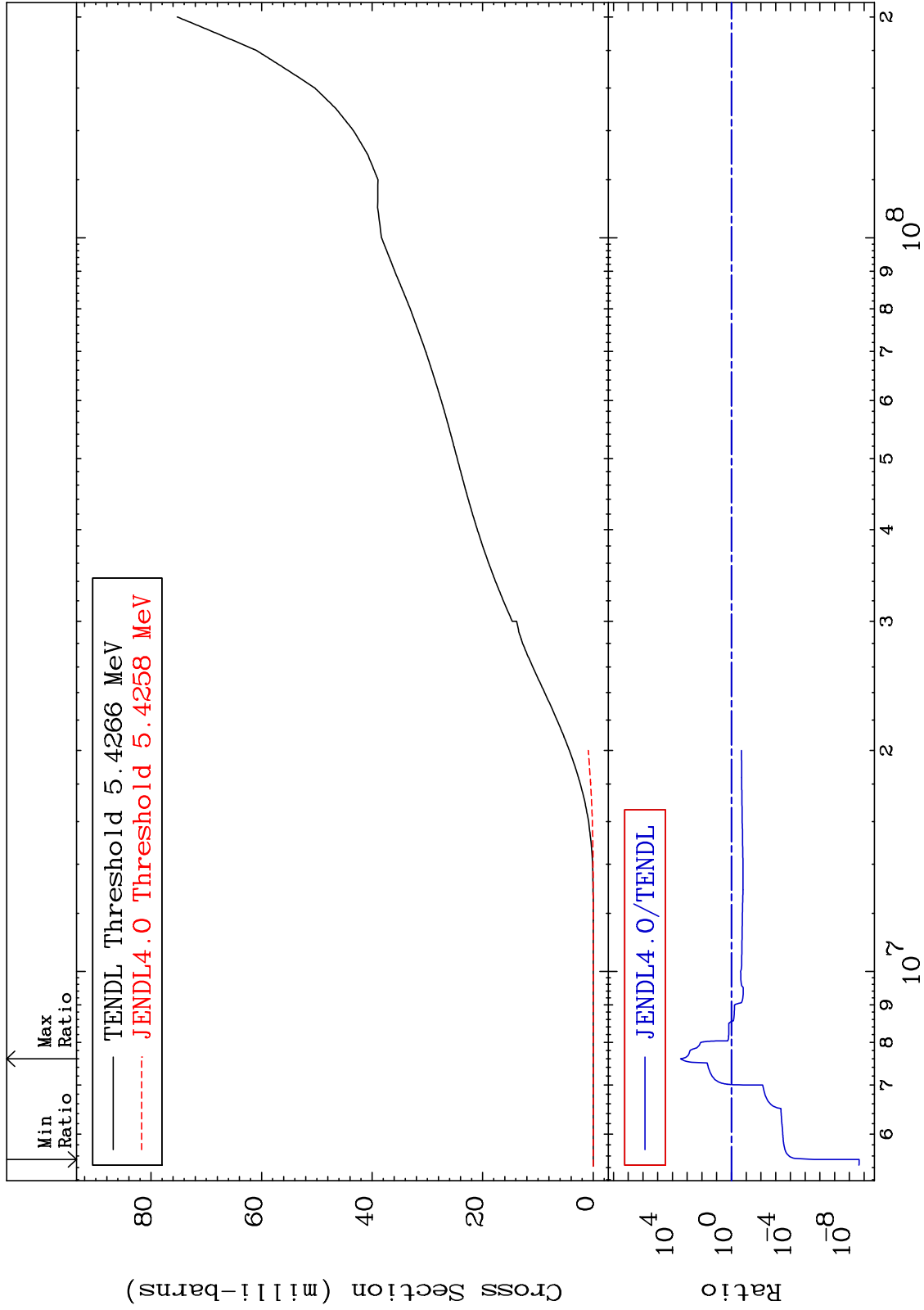
62-Sm-151
-99.83 To 9999. %



MAT 6246

Tritium Production
Cross Section

62-Sm-151
-100.0 To 9999. %



52

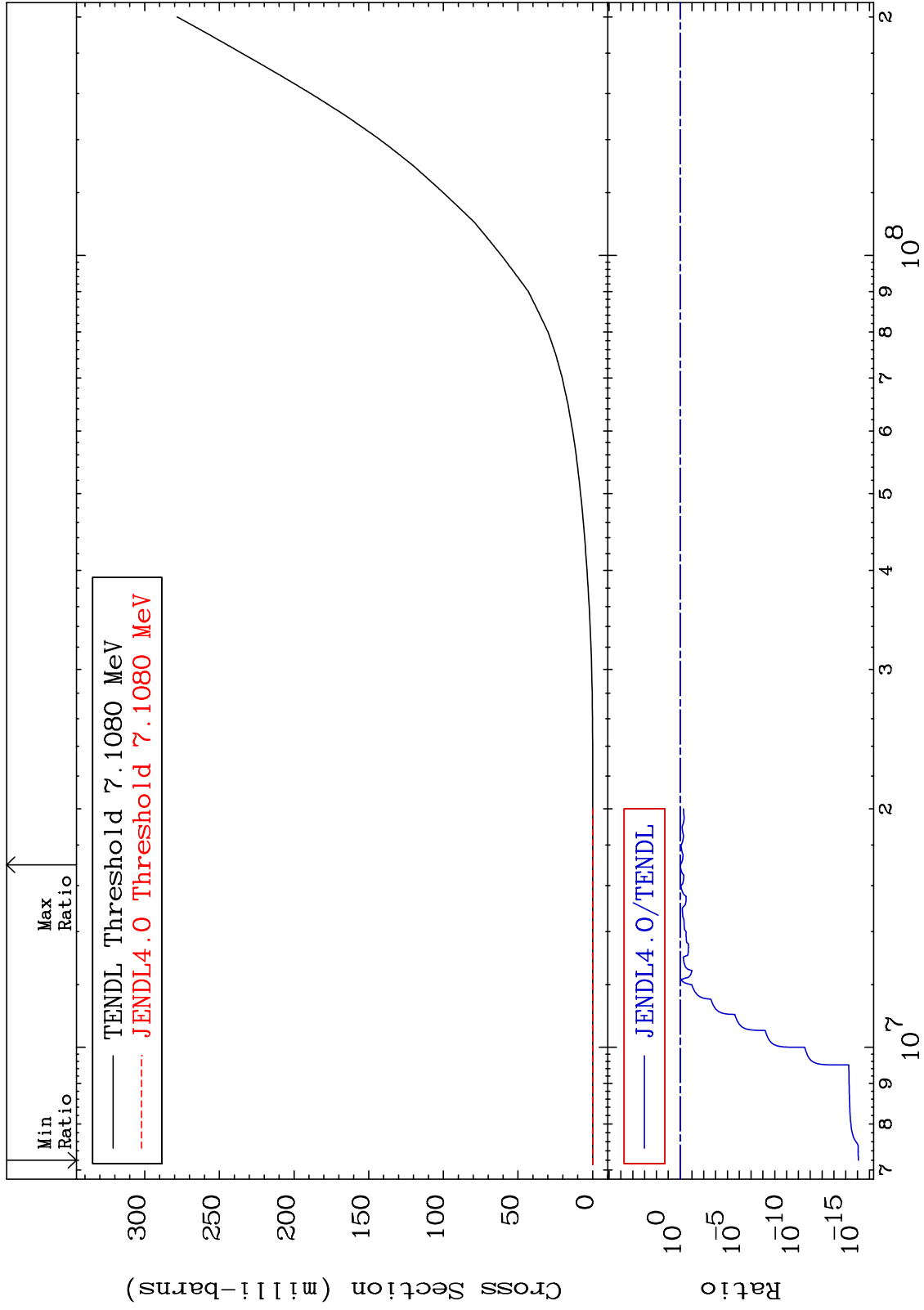
Incident Energy (eV)

62-Sm-151

MAT 6246

He-3 Production
Cross Section

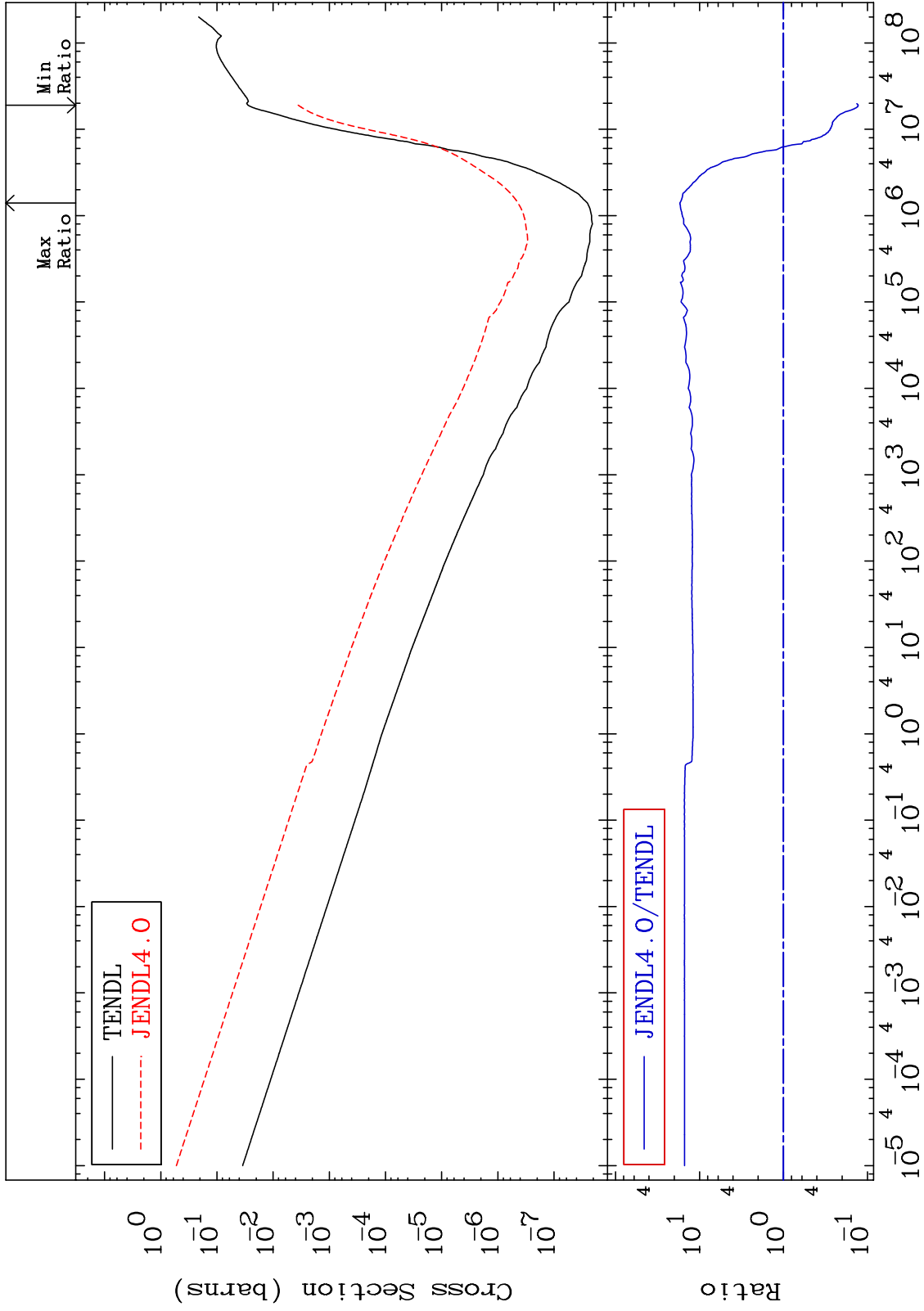
62-Sm-151
-100.0 To 1.377 %



MAT 6246

He-4 Production
Cross Section

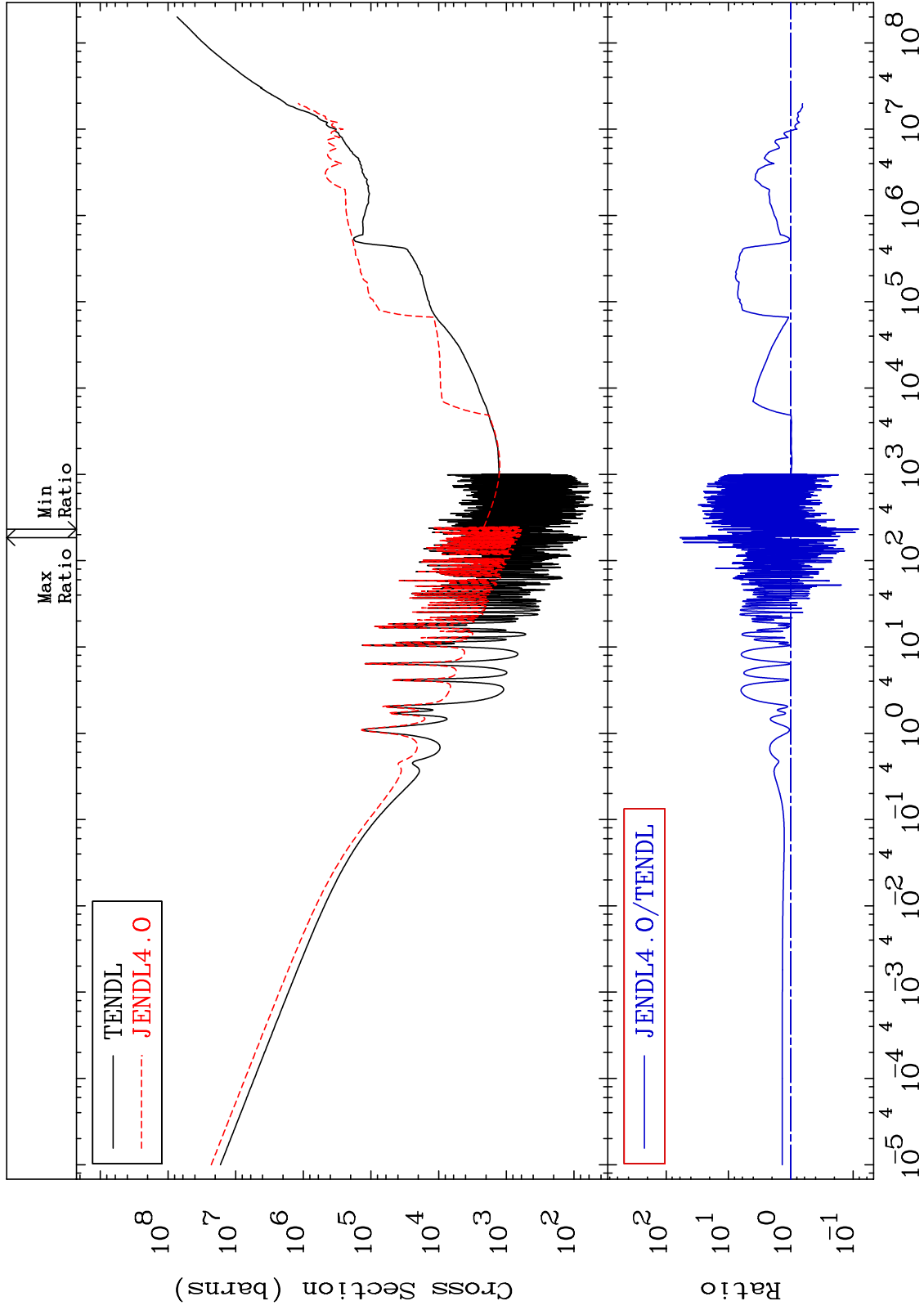
62-Sm-151
-87.18 To 1617. %



MAT 6246

Kerma total (eV-barns)
Cross Section

62-Sm-151
-91.78 To 5882. %



55

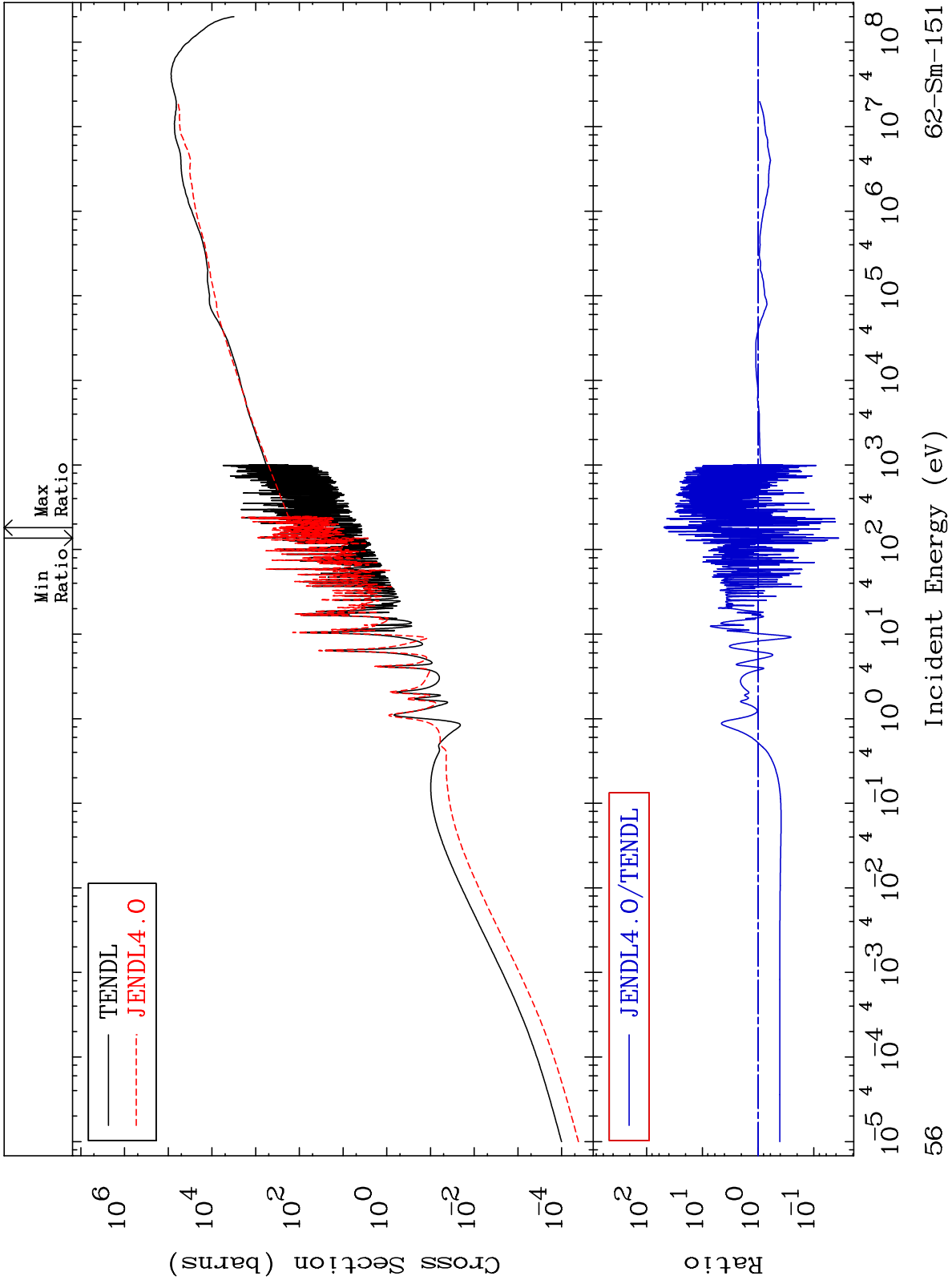
Incident Energy (eV)

62-Sm-151

MAT 6246

Kerma elastic
Cross Section

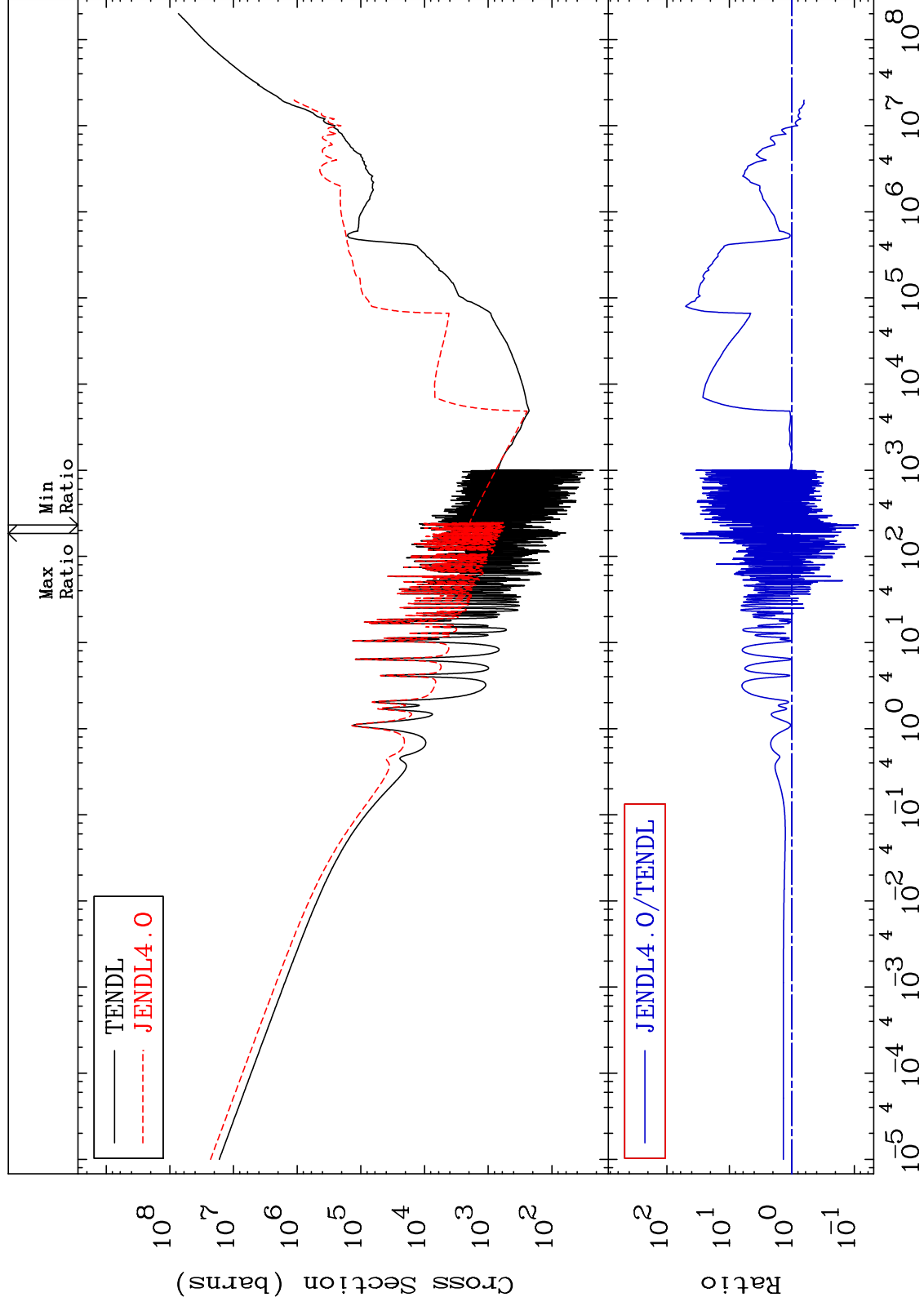
62-Sm-151
-96.44 To 4774. %



MAT 6246

Kerma non-elastic (all but mt2)
Cross Section

62-Sm-151
-91.45 To 5951. %

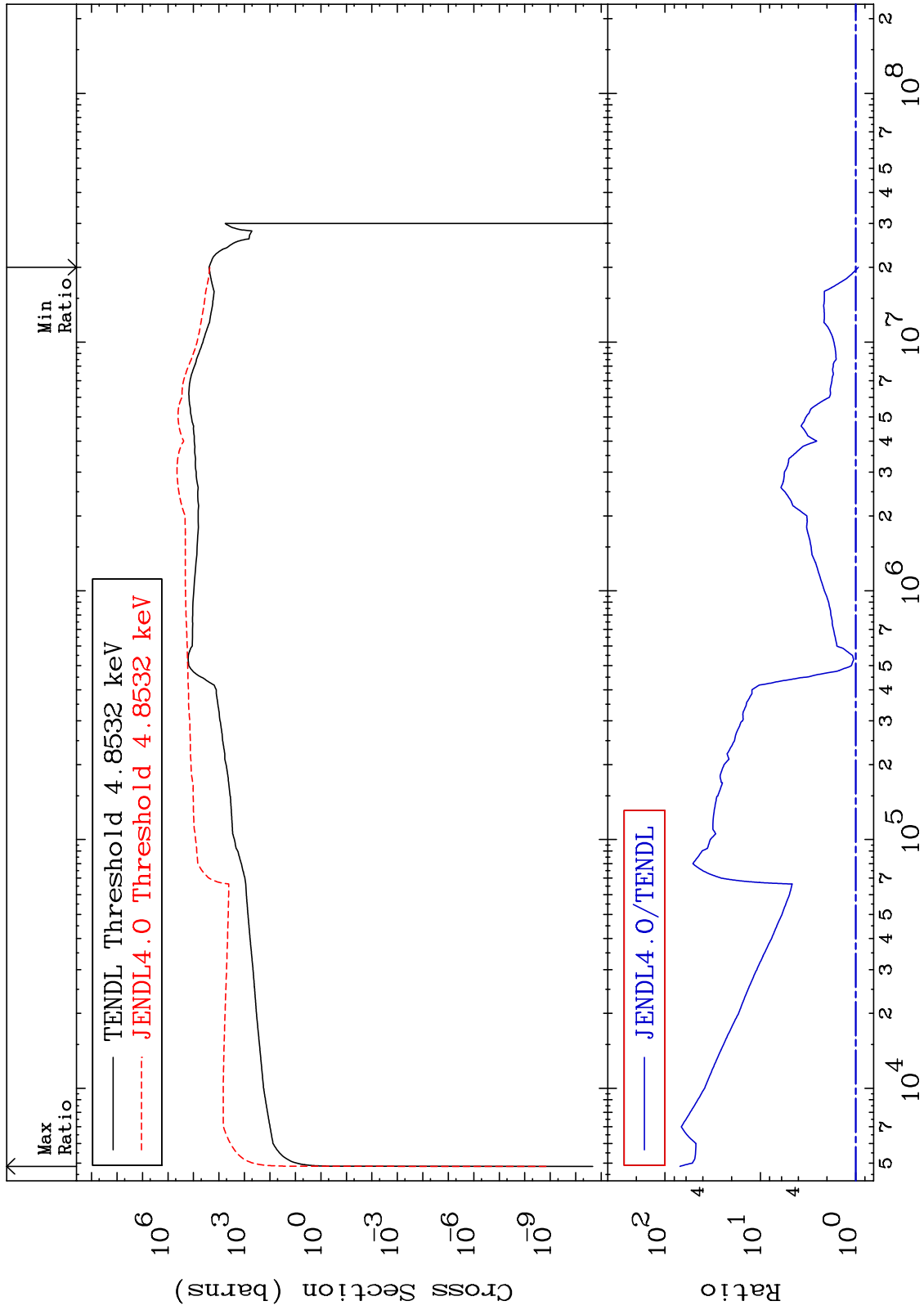


57

Incident Energy (eV)

62-Sm-151

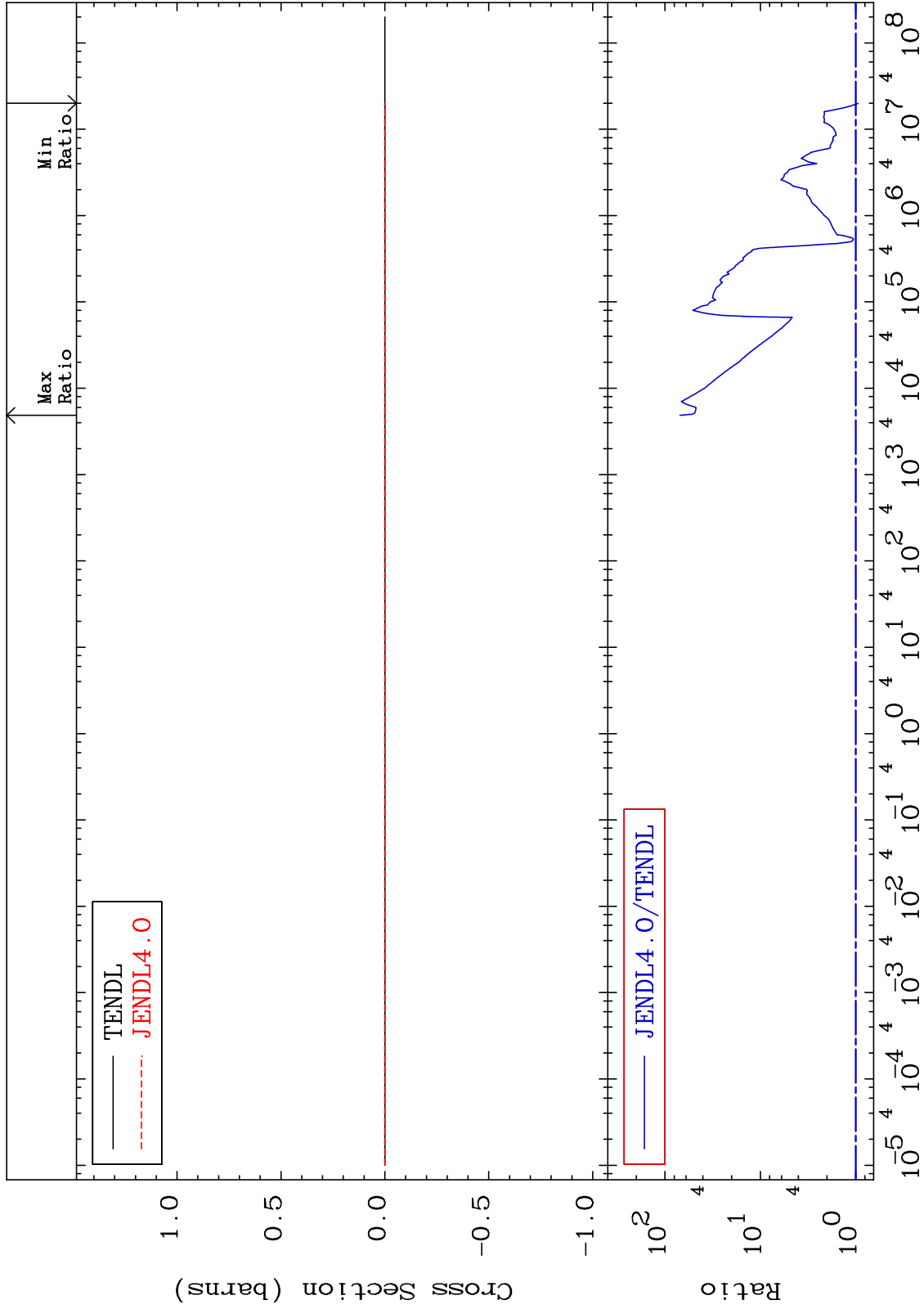
MAT 6246 Kerma inelastic (mt51-91) 62-Sm-151
 Cross Section -6.177 To 6853. %



MAT 6246

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

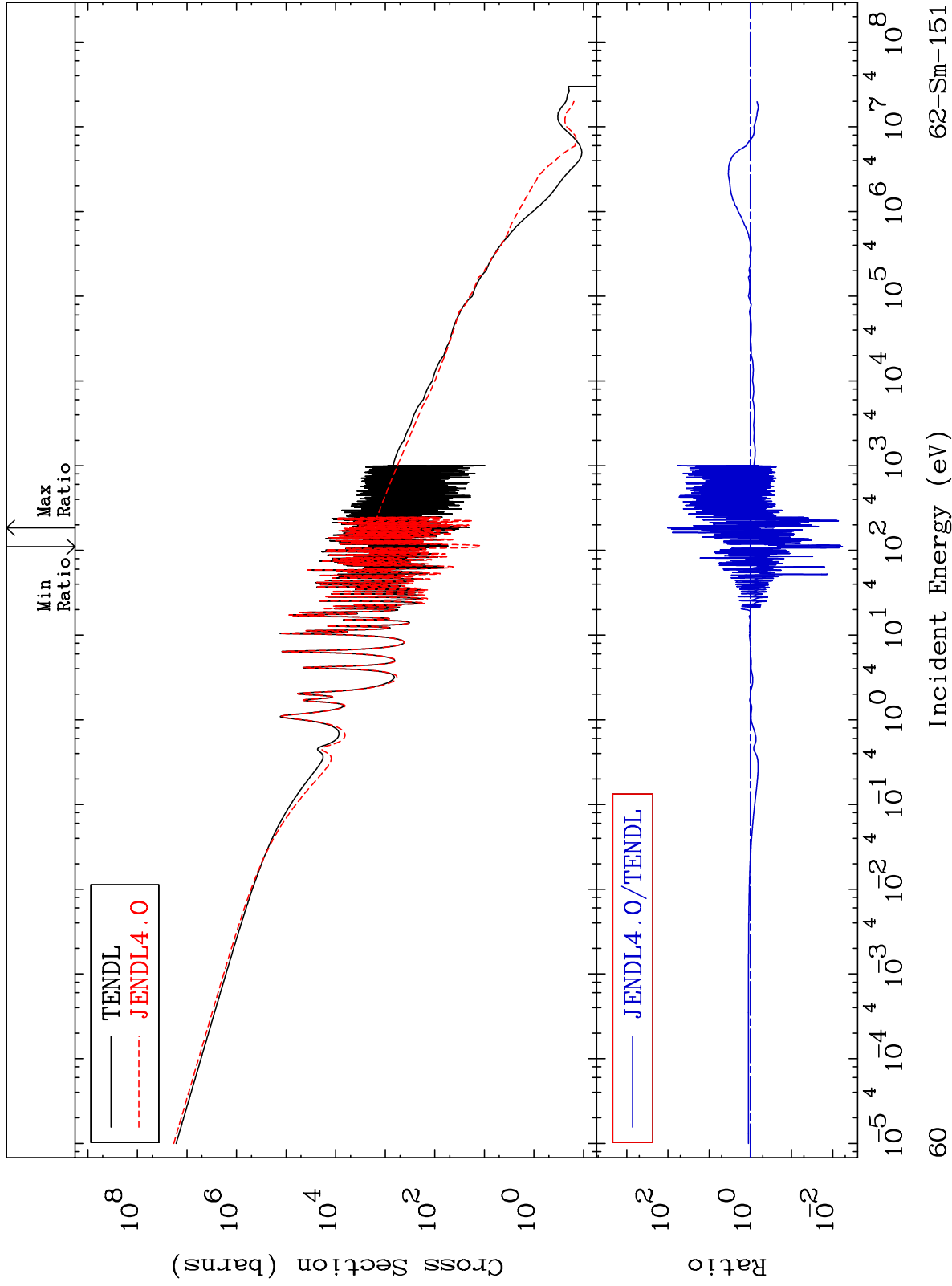
62-Sm-151
-6.177 To 6853. %



MAT 6246

Kerma capture (mt102)
Cross Section

62-Sm-151
-99.43 To 9999. %



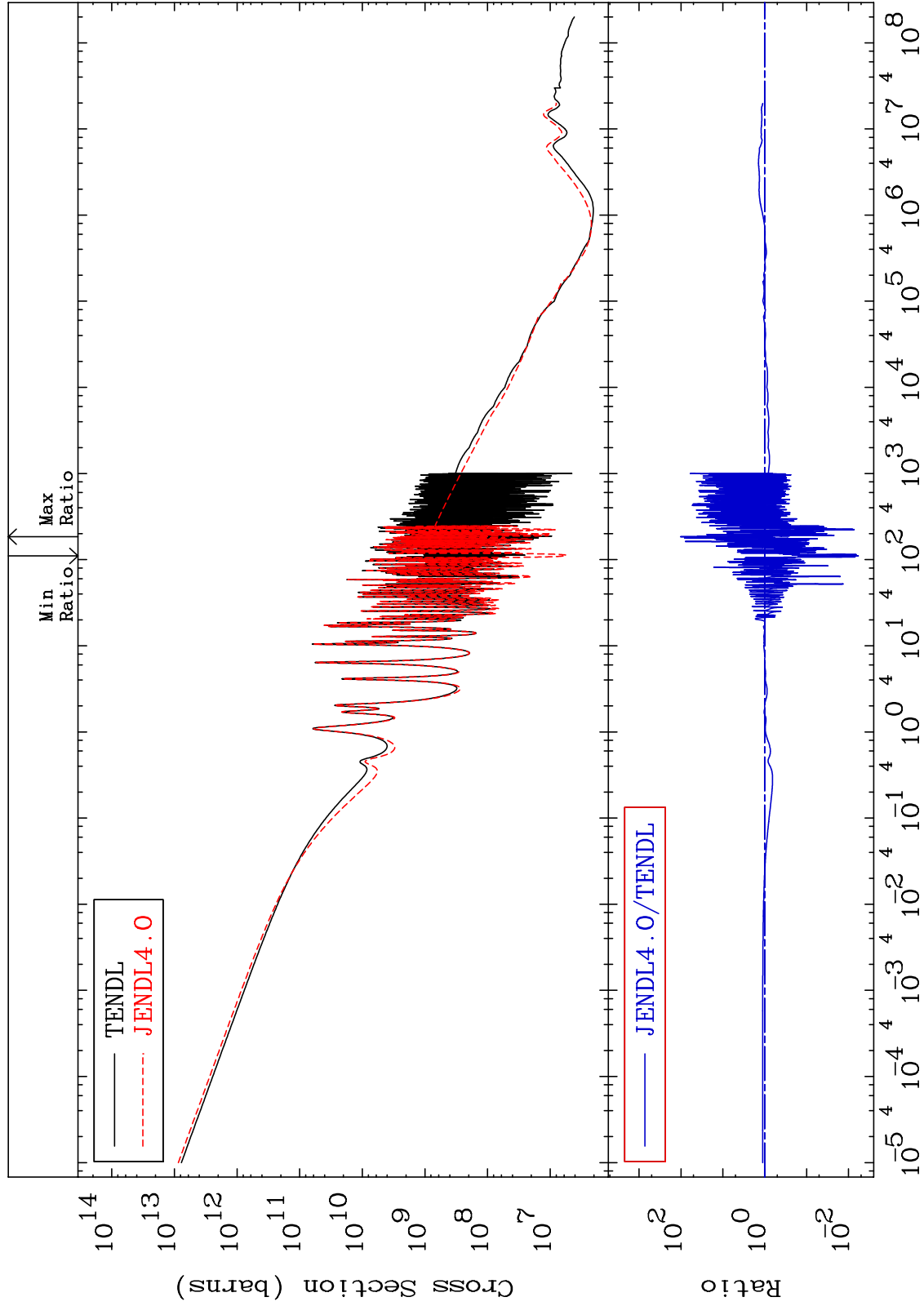
60

62-Sm-151

MAT 6246

Total photon (eV-barns)
Cross Section

62-Sm-151
-99.43 To 9999. %



61

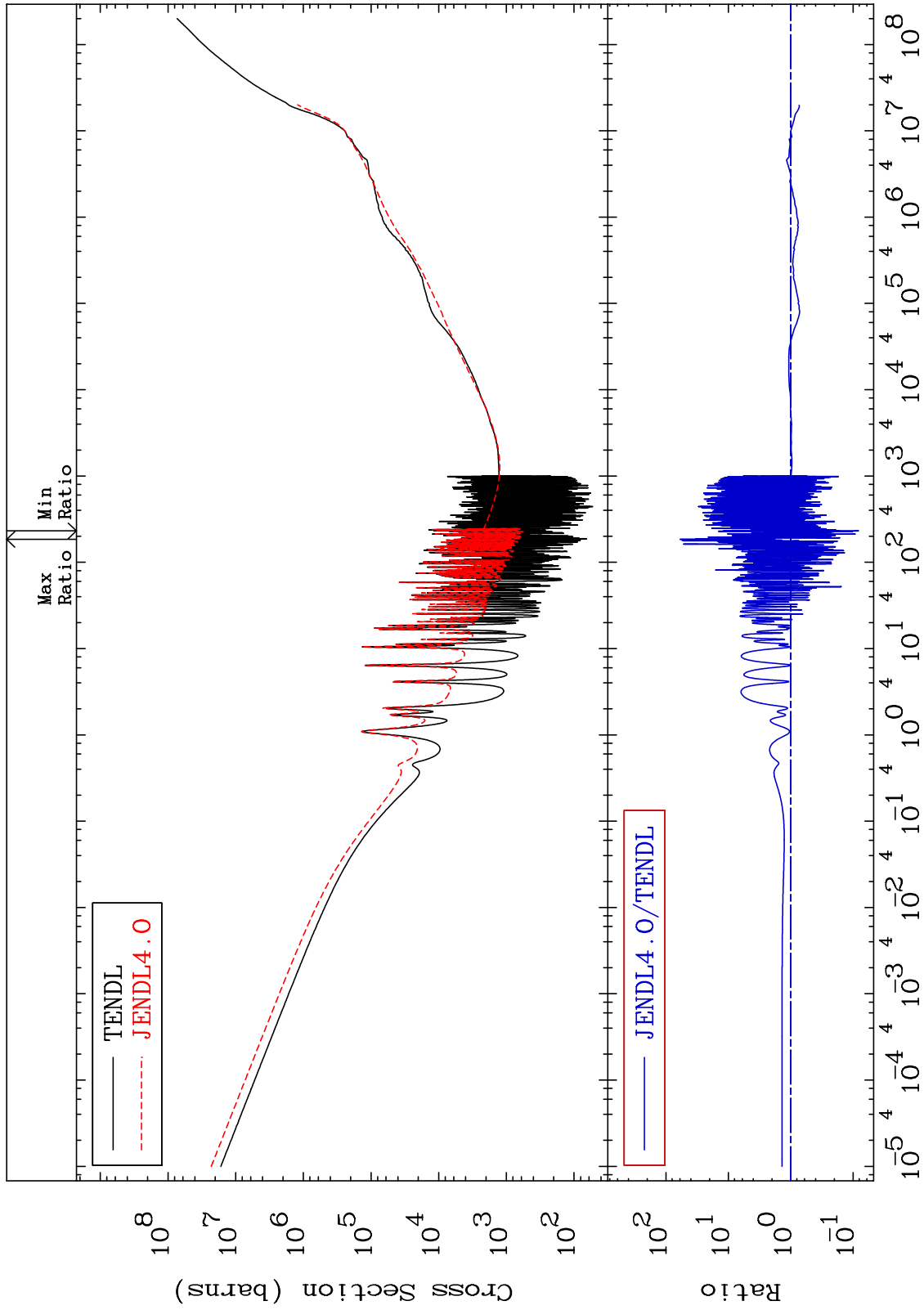
Incident Energy (eV)

62-Sm-151

MAT 6246

Total kinematic kerma (high limit)
Cross Section

62-Sm-151
-91.78 To 5866. %



62

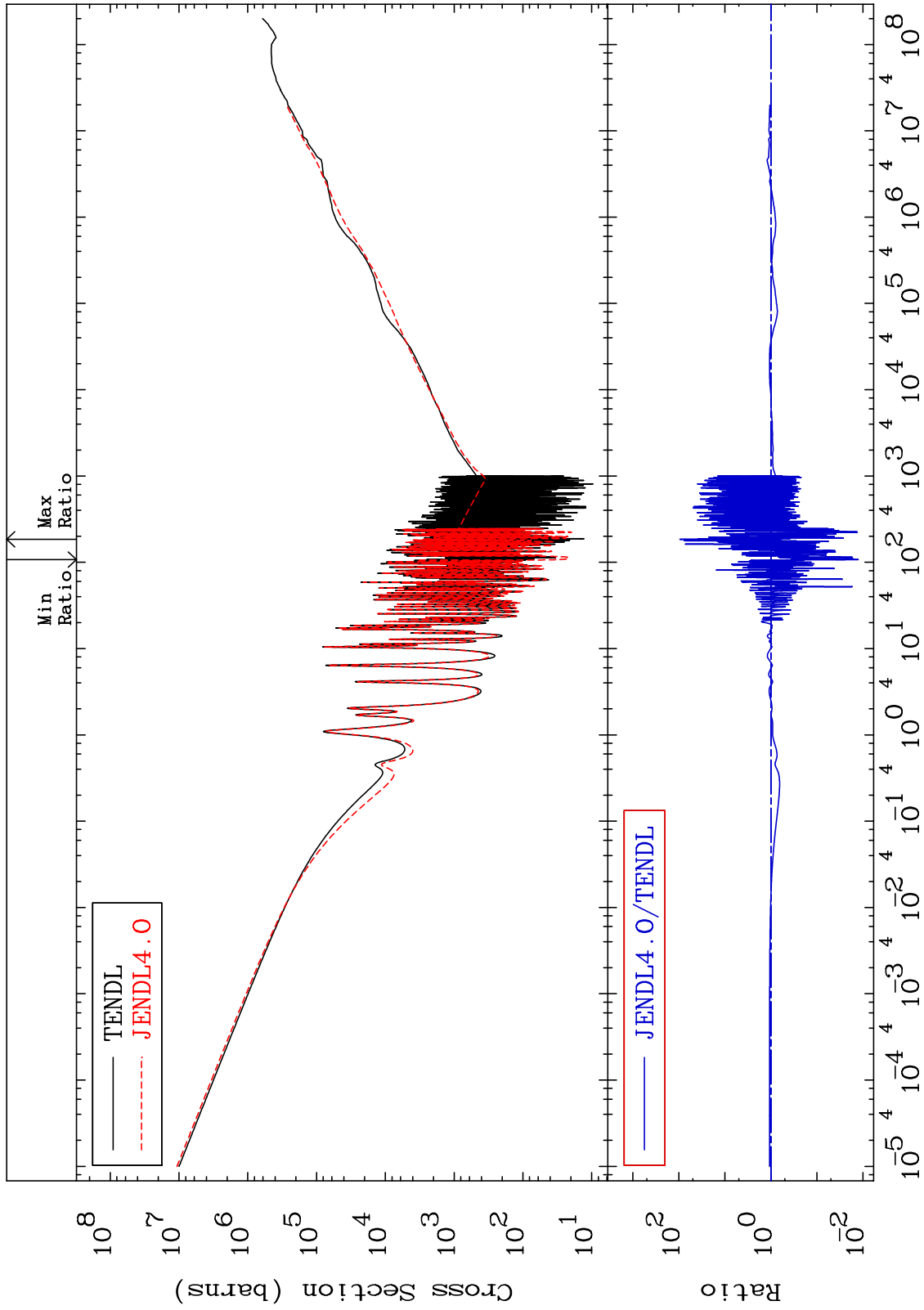
Incident Energy (eV)

62-Sm-151

MAT 6246

Dpa total (eV-barns)
Cross Section

62-Sm-151
-98.75 To 9362. %



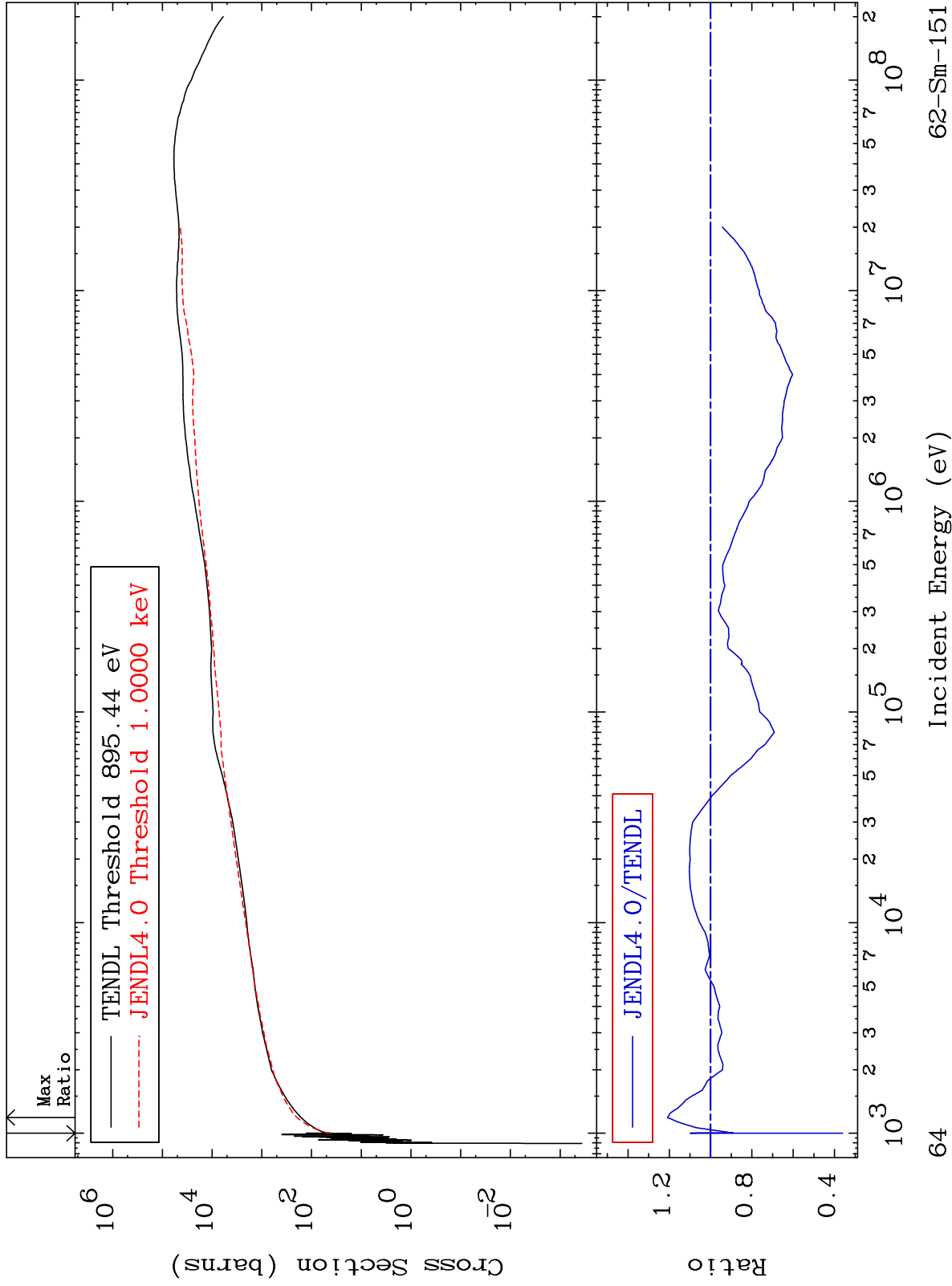
63

62-Sm-151

MAT 6246

Dpa elastic (mt2)
Cross Section

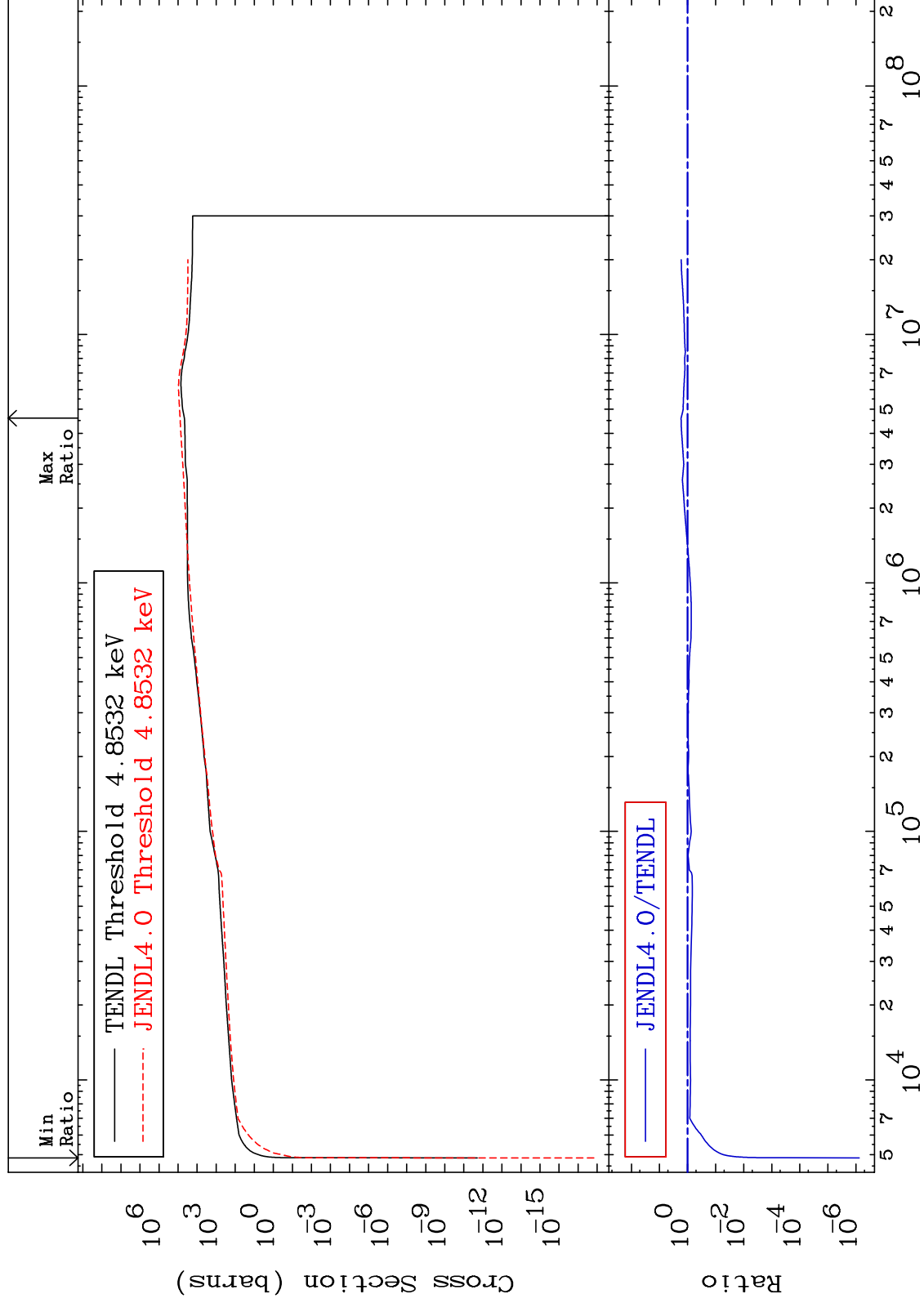
62-Sm-151
-63.96 To 20.85 %



MAT 6246

Dpa inelastic (mt51-91)
Cross Section

62-Sm-151
-100.0 To 70.88 %



65

Incident Energy (eV)

62-Sm-151

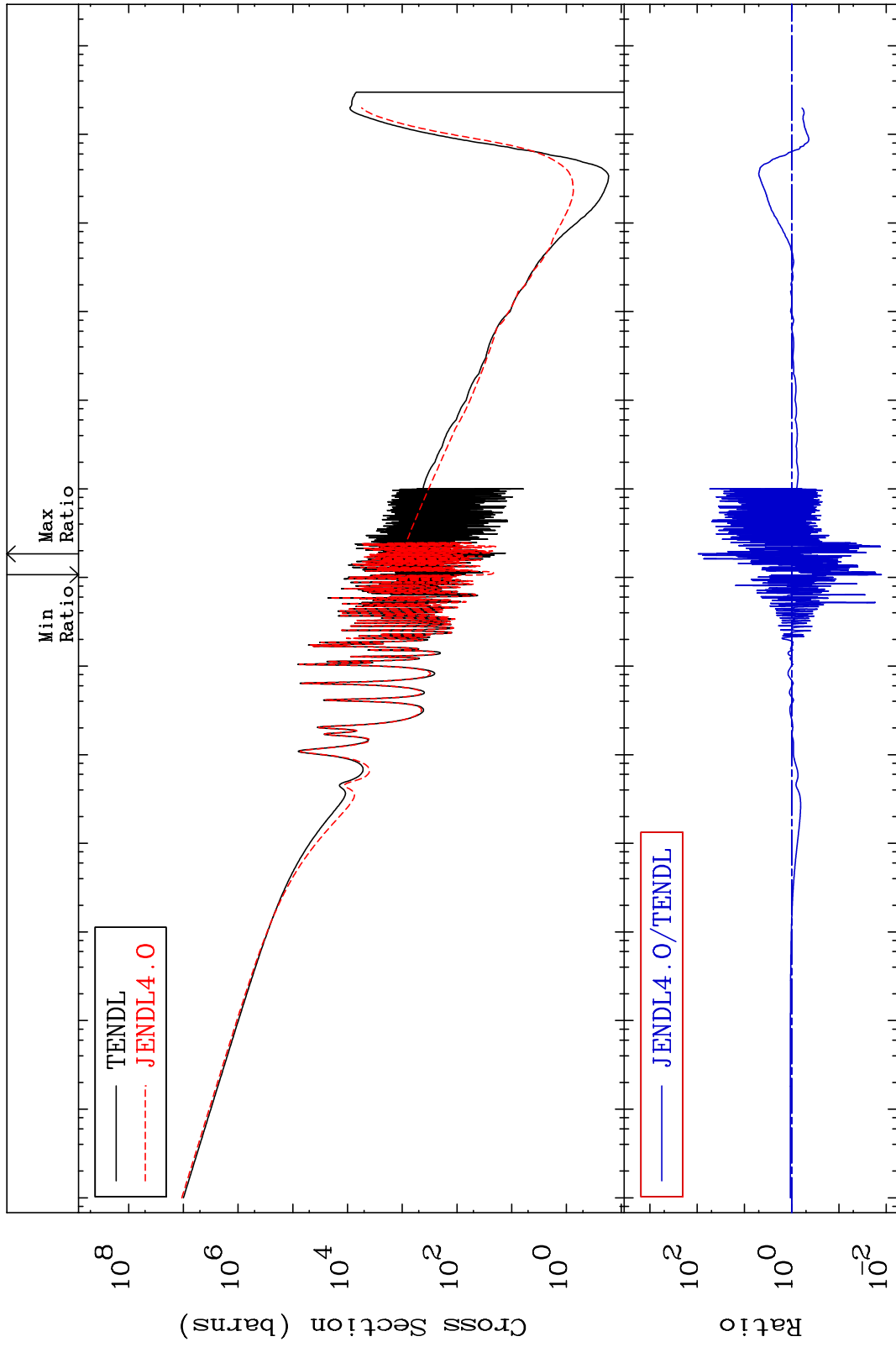
MAT 6246

Dpa disappearance (mt102 -120)

62-Sm-151

-98.75 To 9362. %

Cross Section



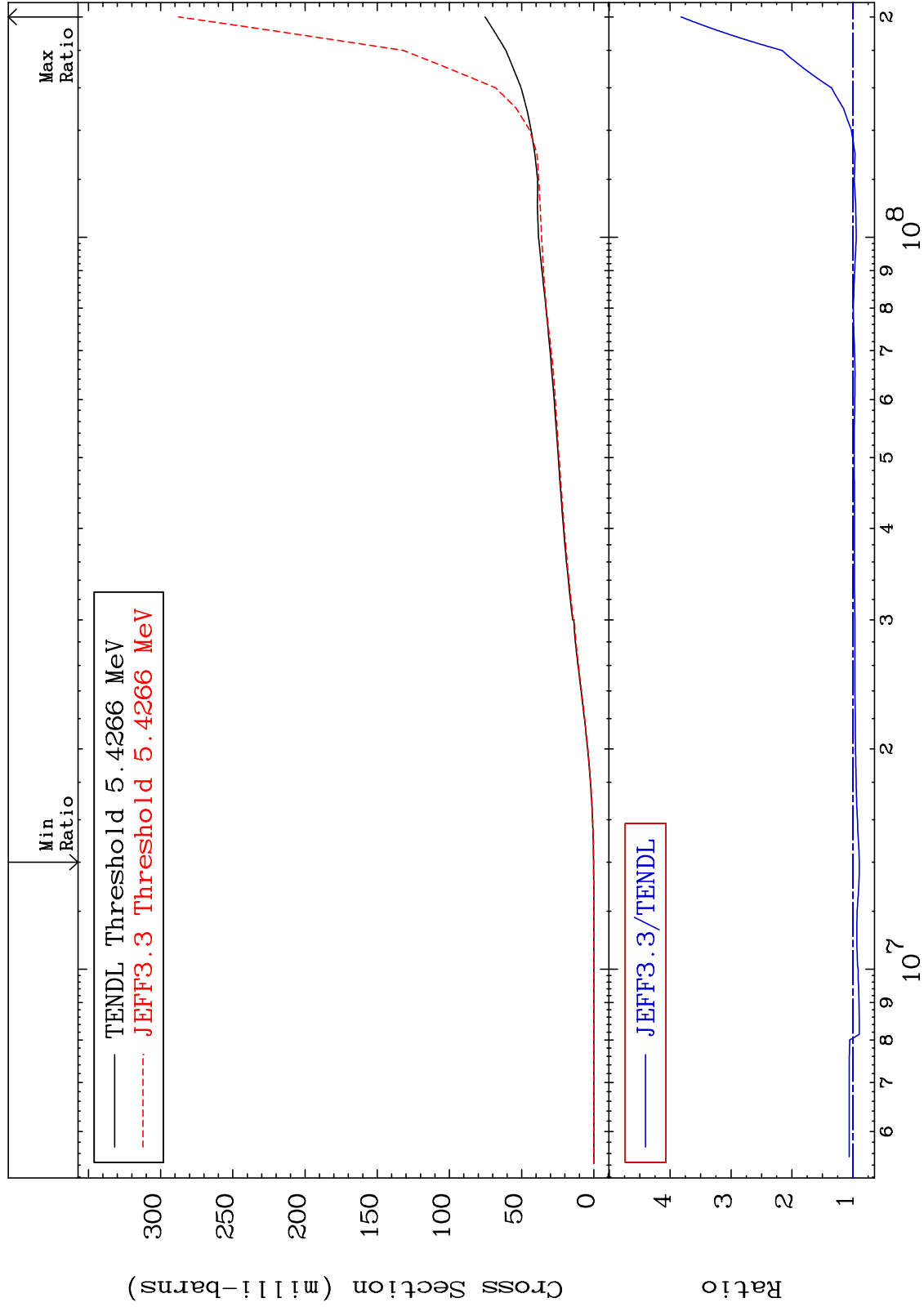
Incident Energy (eV)

62-Sm-151

MAT 6246

Tritium Production
Cross Section

62-Sm-151
-10.55 To 282.1 %



67

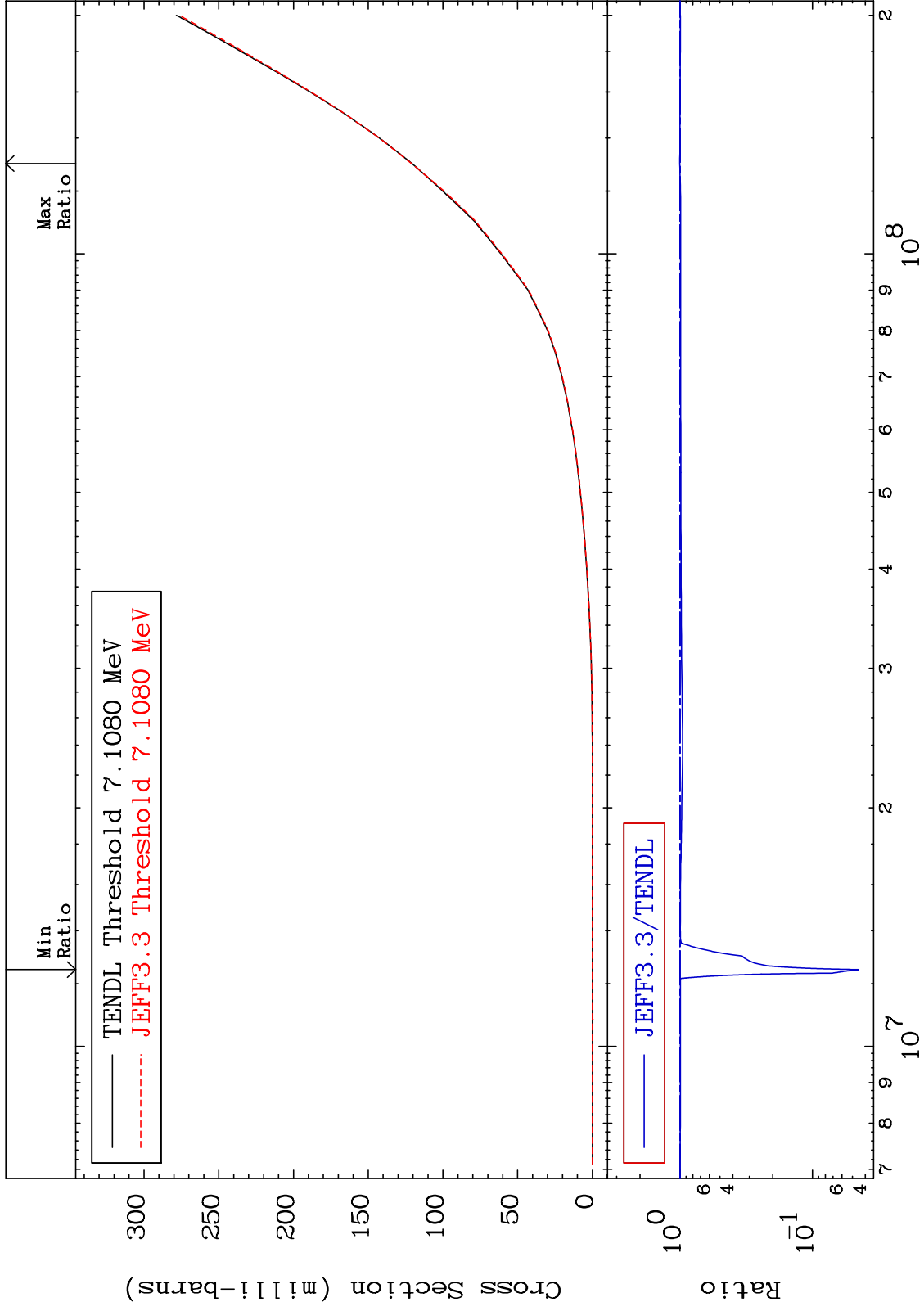
Incident Energy (eV)

62-Sm-151

MAT 6246

He-3 Production
Cross Section

62-Sm-151
-95.49 To 0.302 %



68

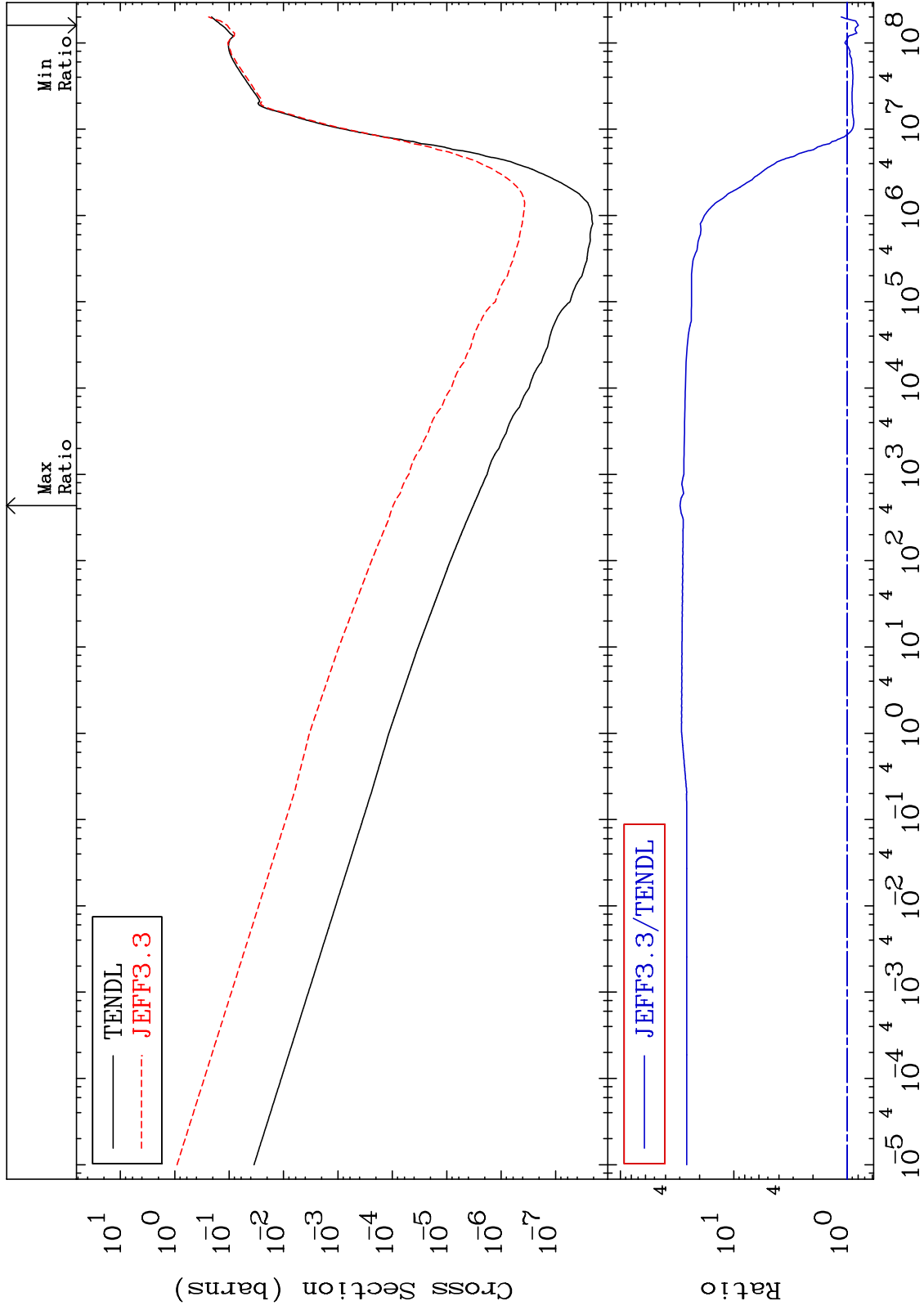
Incident Energy (eV)

62-Sm-151

MAT 6246

He-4 Production
Cross Section

62-Sm-151
-20.43 To 2880. %



69

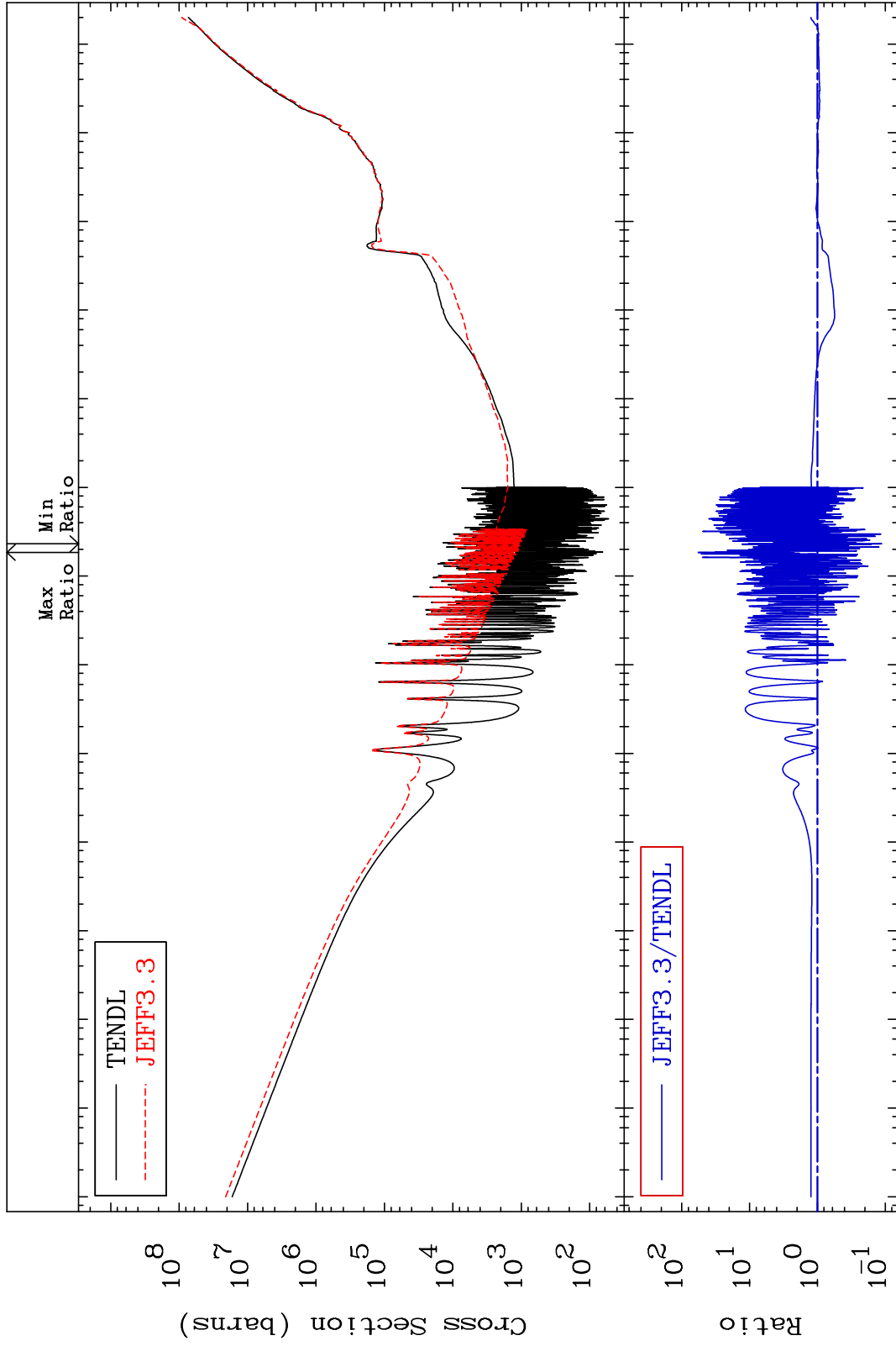
Incident Energy (eV)

62-Sm-151

MAT 6246

Kerma total (eV-barns)
Cross Section

62-Sm-151
-88.65 To 5598. %



70

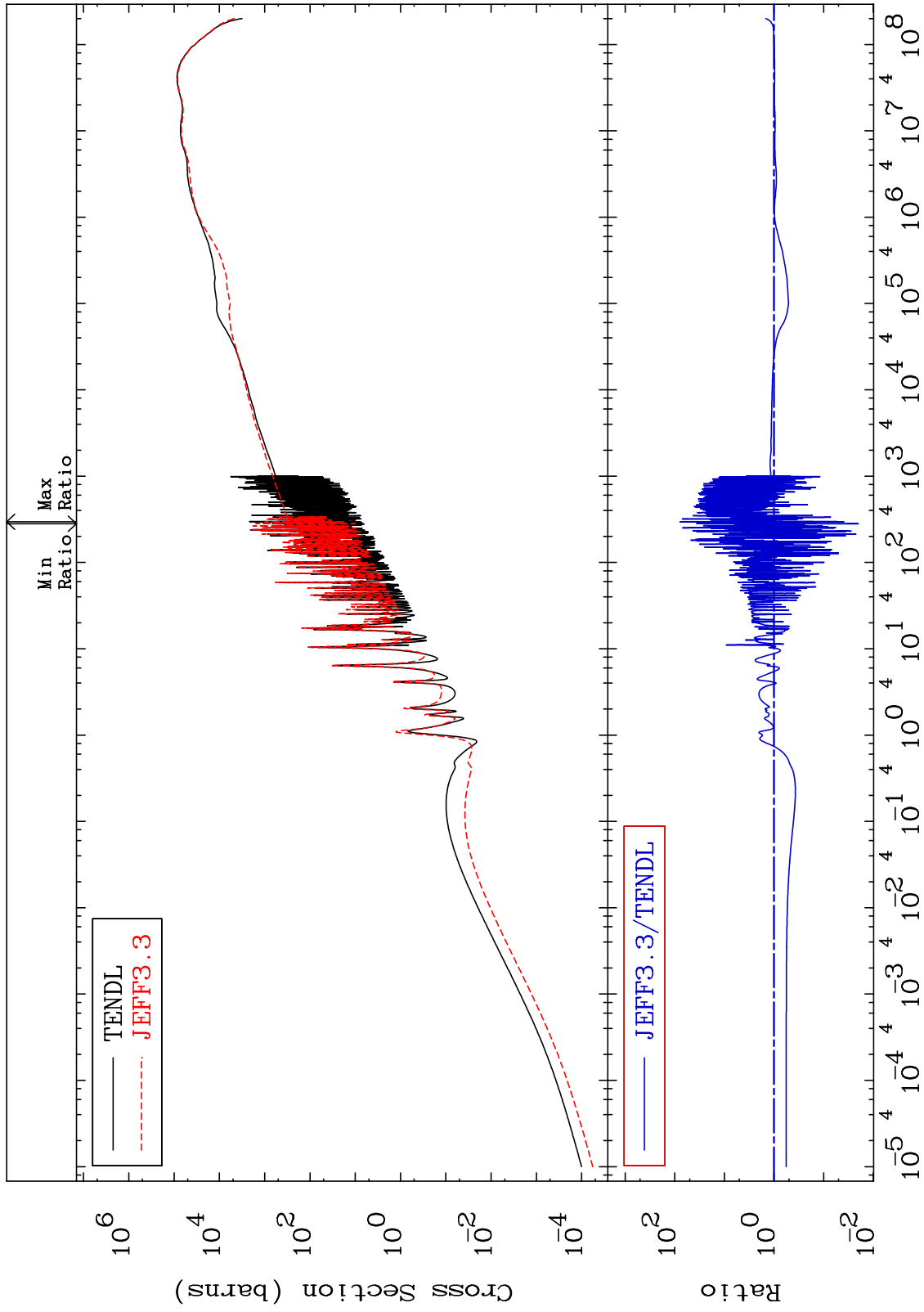
Incident Energy (eV)

62-Sm-151

MAT 6246

Kerma elastic
Cross Section

62-Sm-151
-98.01 To 7747. %



71

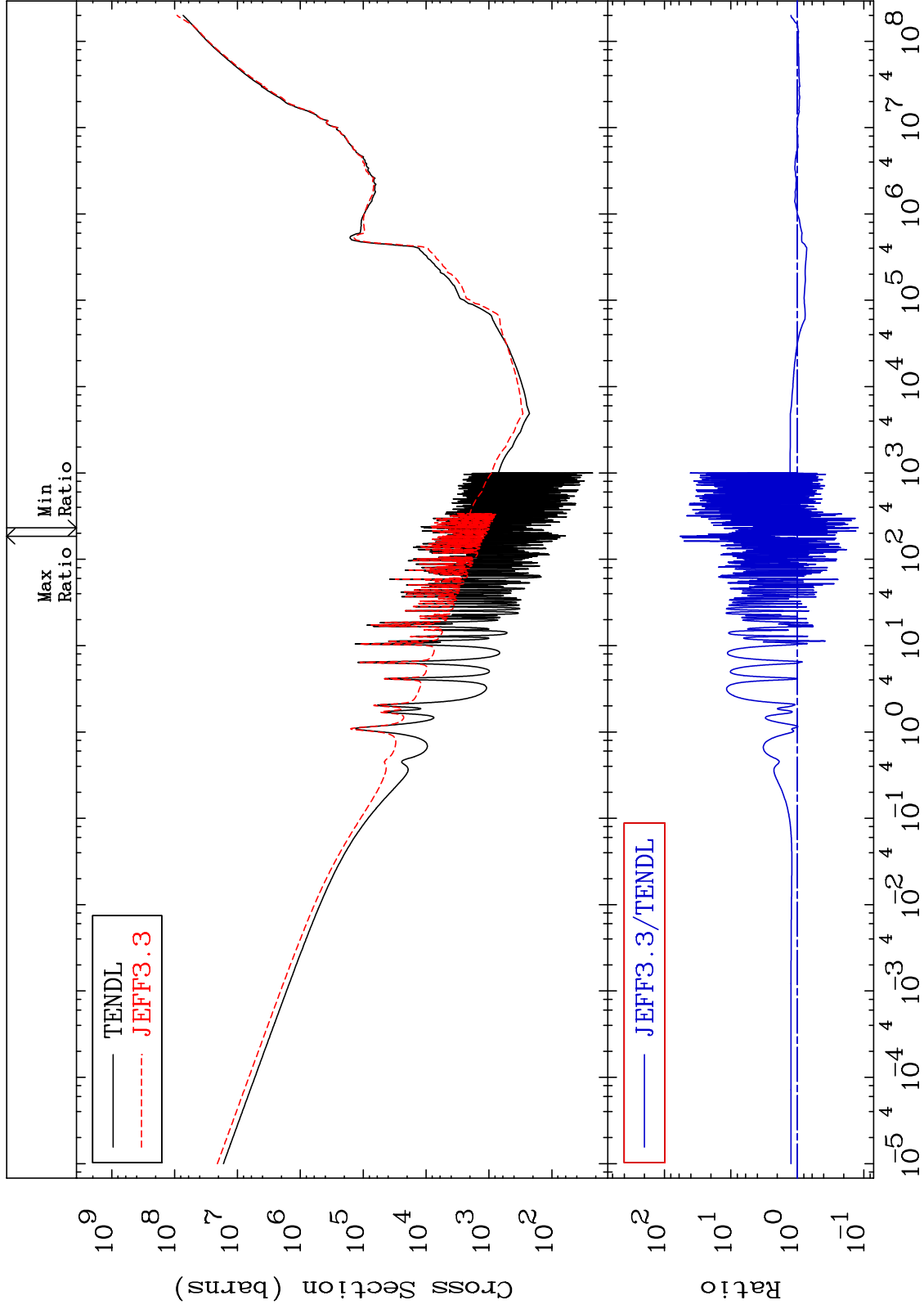
Incident Energy (eV)

62-Sm-151

MAT 6246

Kerma non-elastic (all but mt2)
Cross Section

62-Sm-151
-87.96 To 5714. %



72

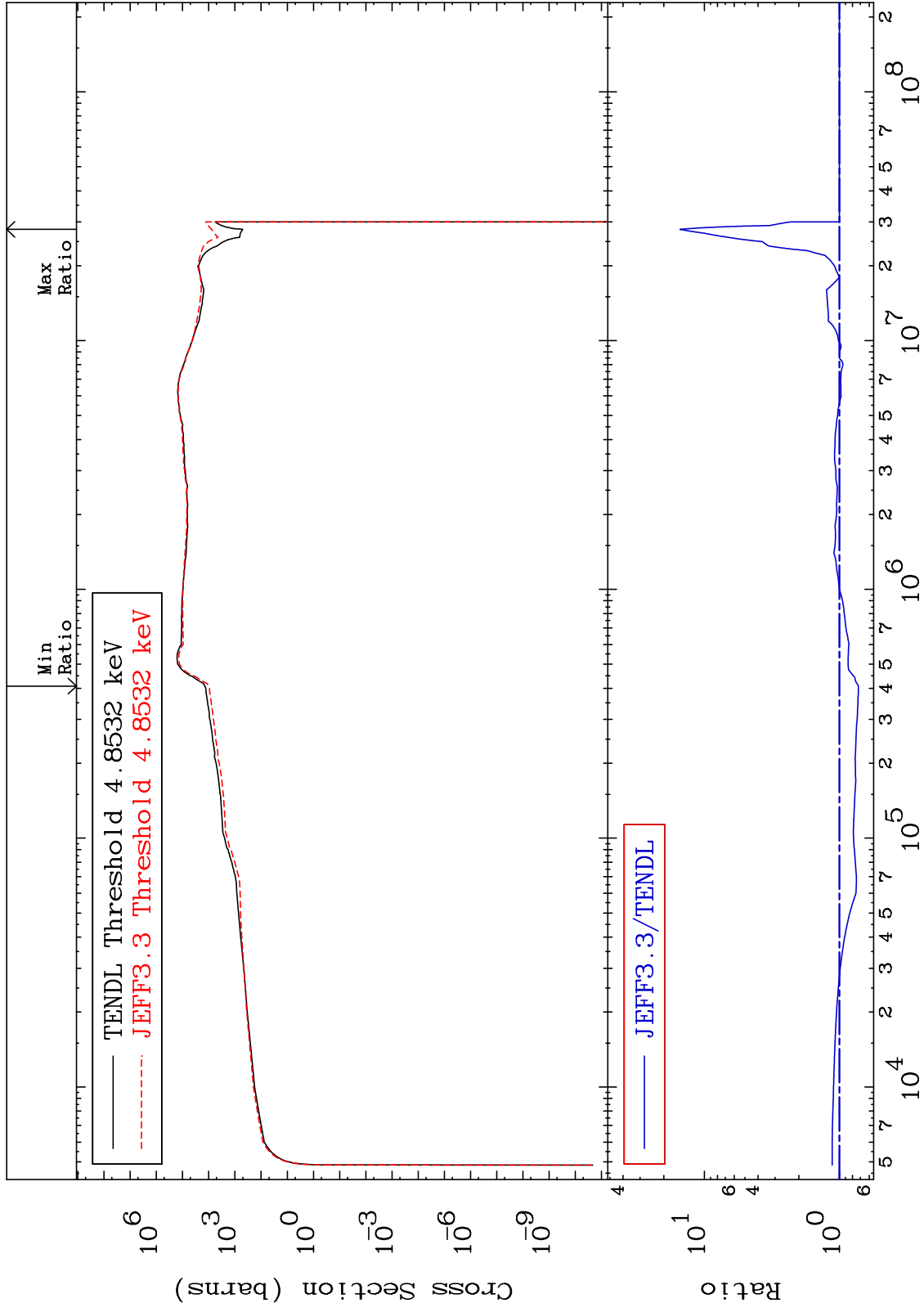
Incident Energy (eV)

62-Sm-151

MAT 6246

Kerma inelastic (mt51-91)
Cross Section

62-Sm-151
-27.75 To 1415. %



73

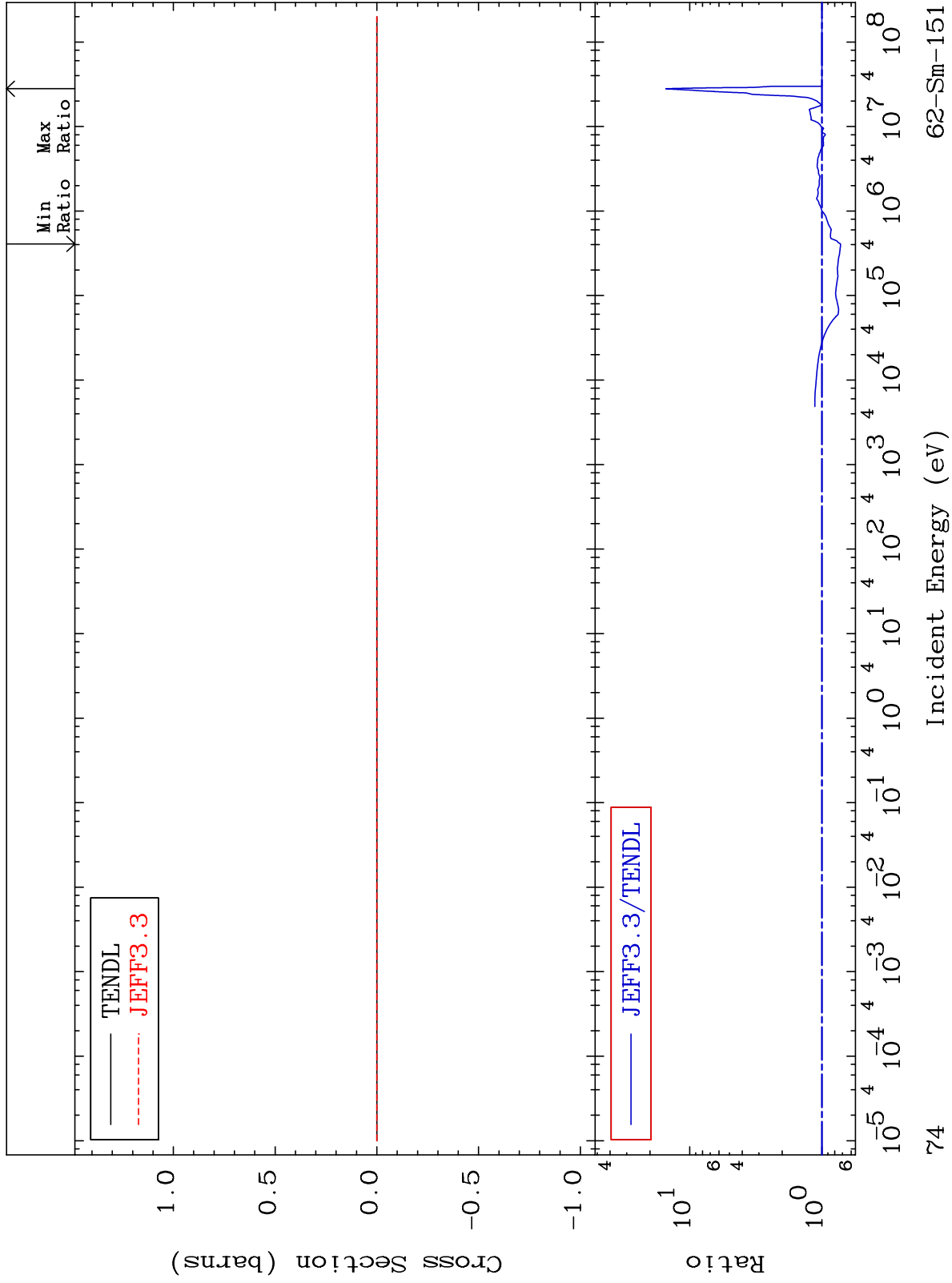
Incident Energy (eV)

62-Sm-151

MAT 6246

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

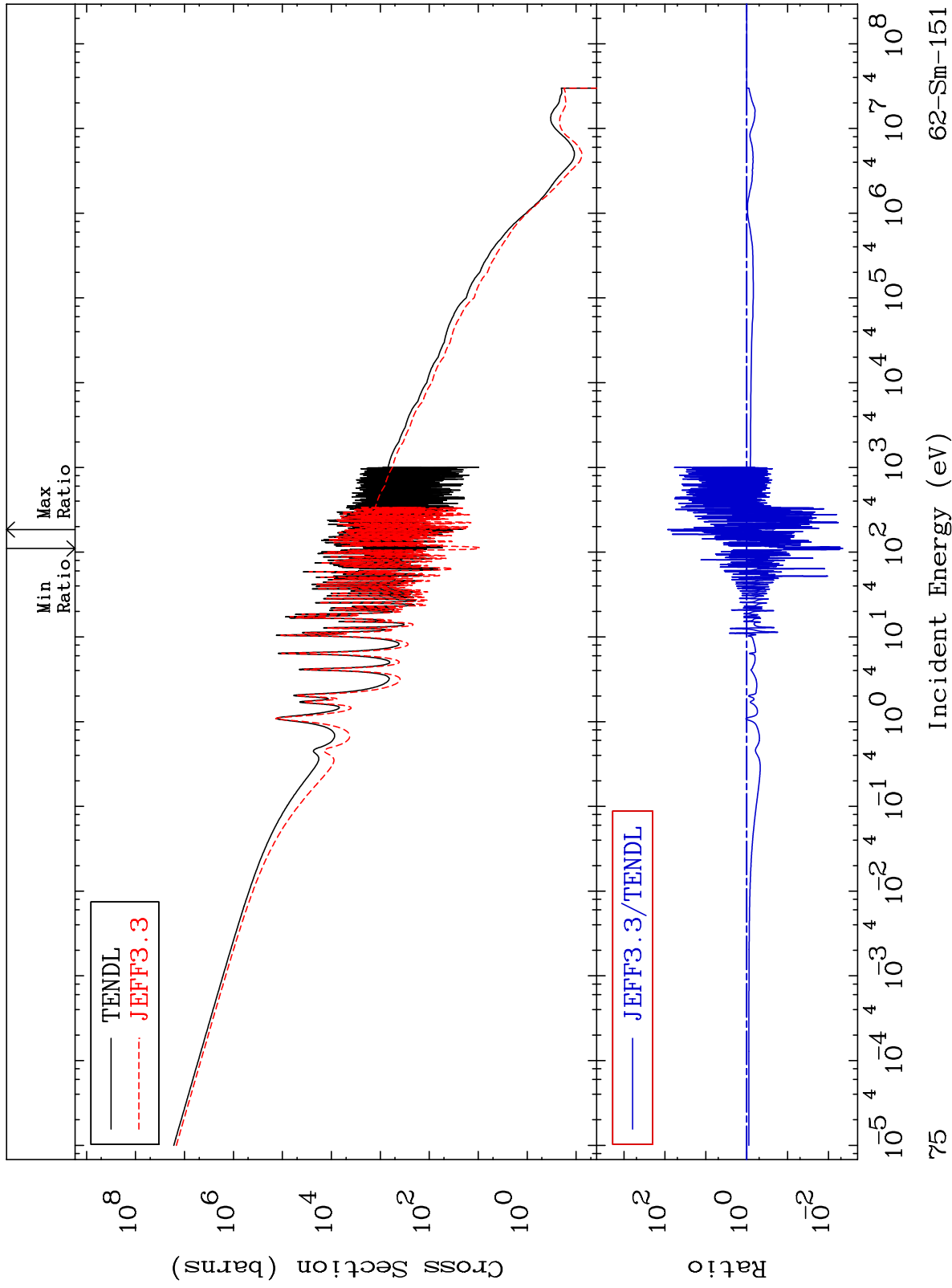
62-Sm-151
-27.75 To 1415. %



MAT 6246

Kerma capture (mt102)
Cross Section

62-Sm-151
-99.55 To 8555. %



75

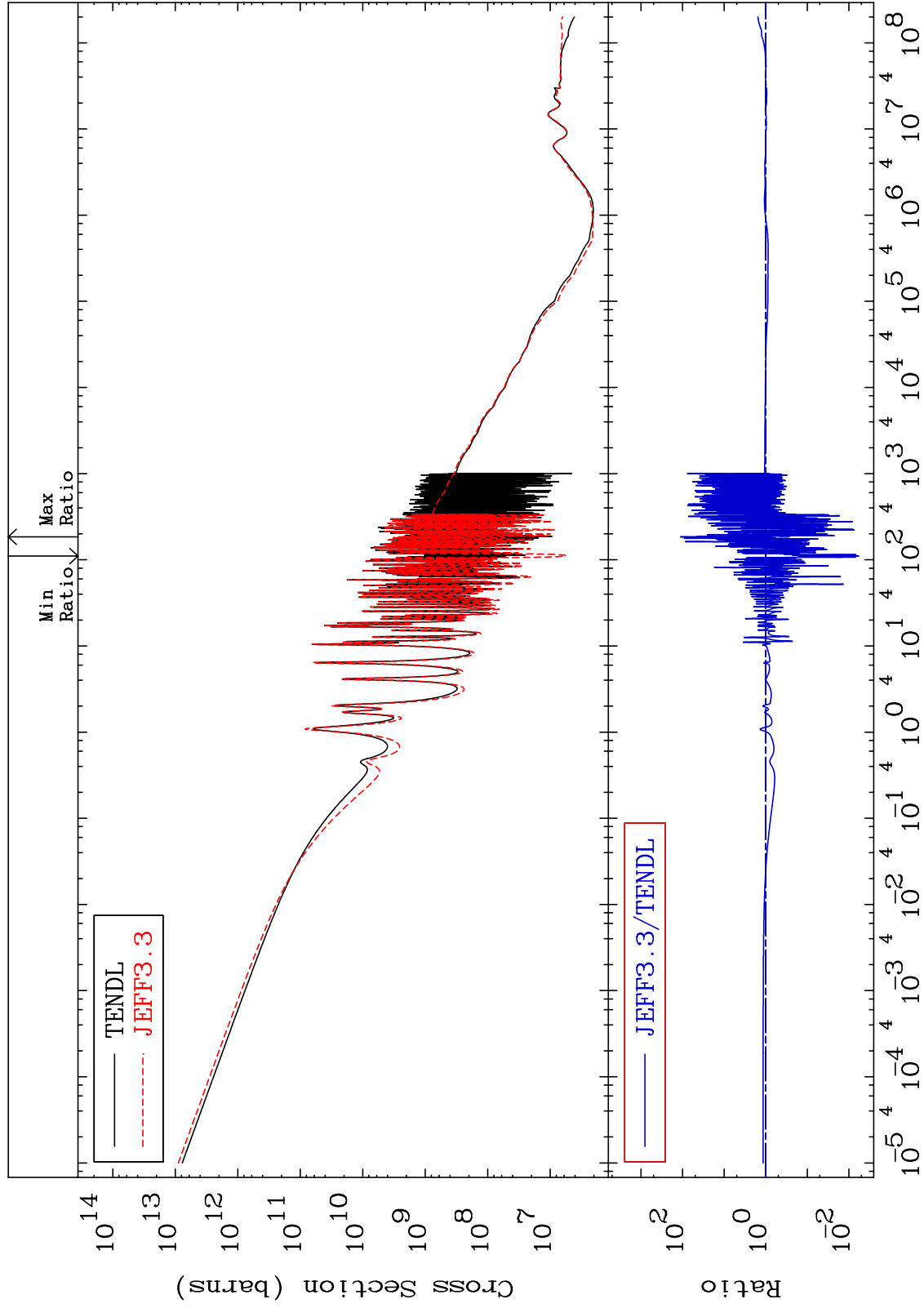
Incident Energy (eV)

62-Sm-151

MAT 6246

Total photon (eV-barns)
Cross Section

62-Sm-151
-99.41 To 9999. %



76

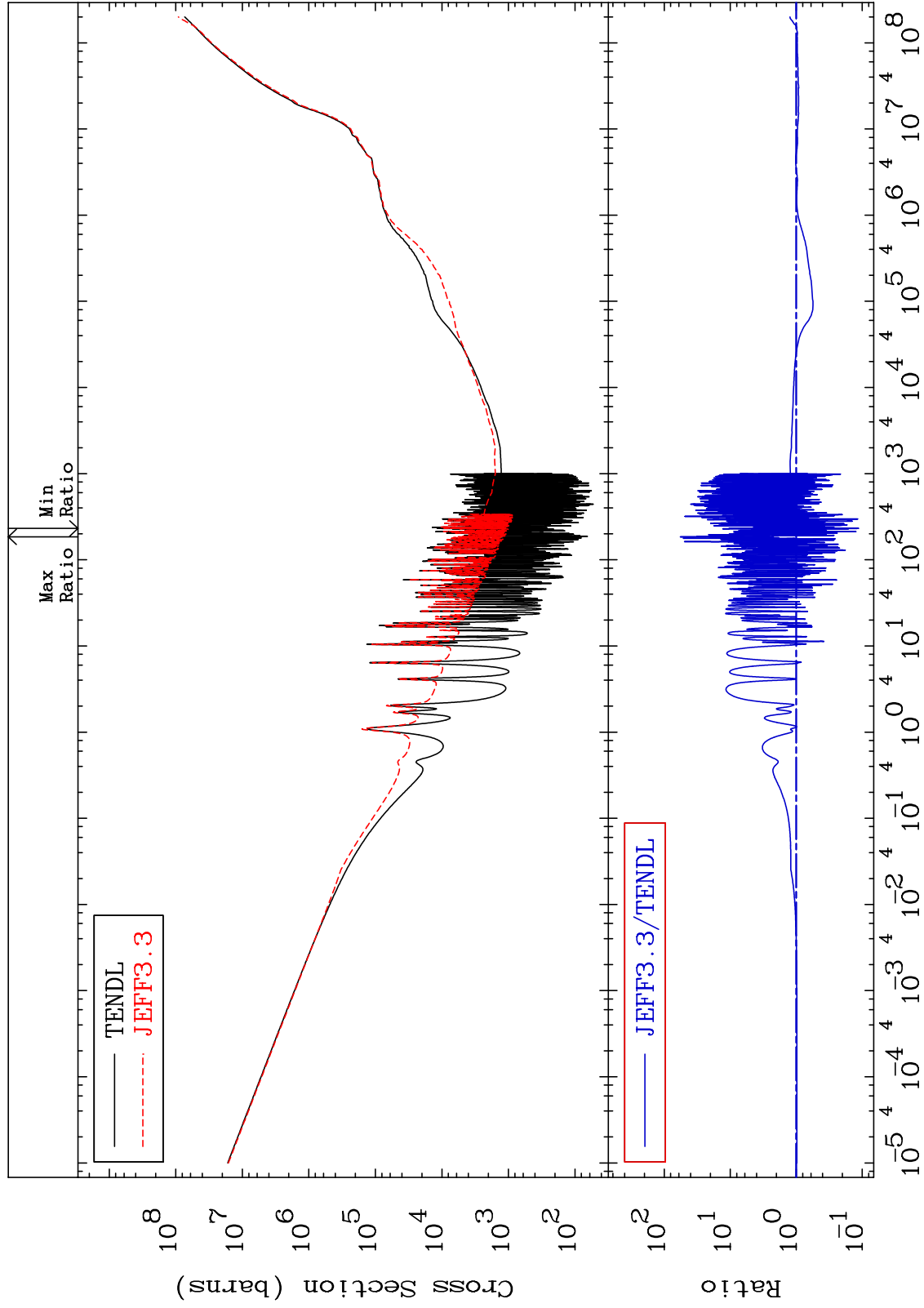
Incident Energy (eV)

62-Sm-151

MAT 6246

Total kinematic kerma (high limit)
Cross Section

62-Sm-151
-88.60 To 5590. %



77

Incident Energy (eV)

62-Sm-151

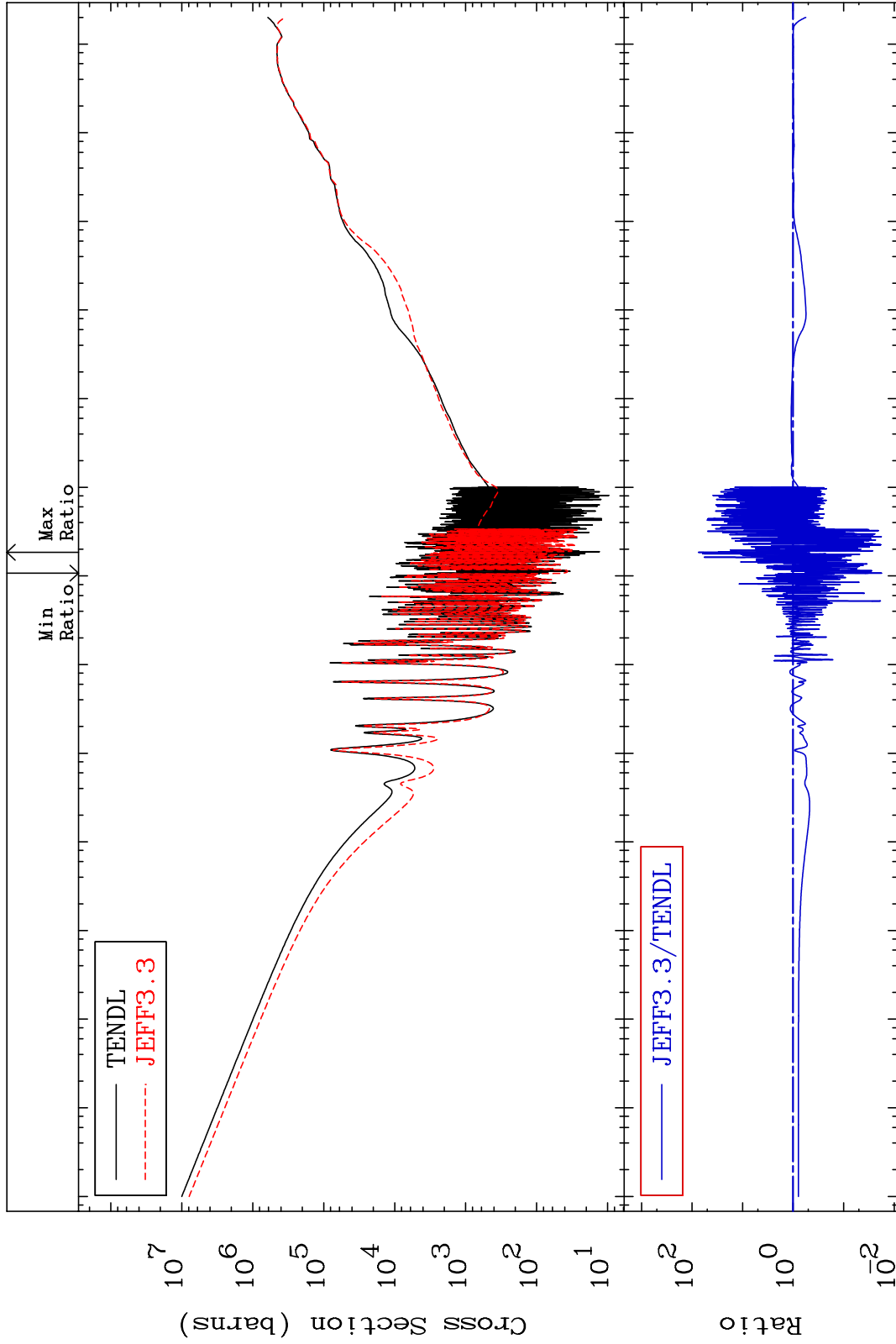
MAT 6246

Dpa total (eV-barns)

62-Sm-151

-98.22 To 7407. %

Cross Section



78

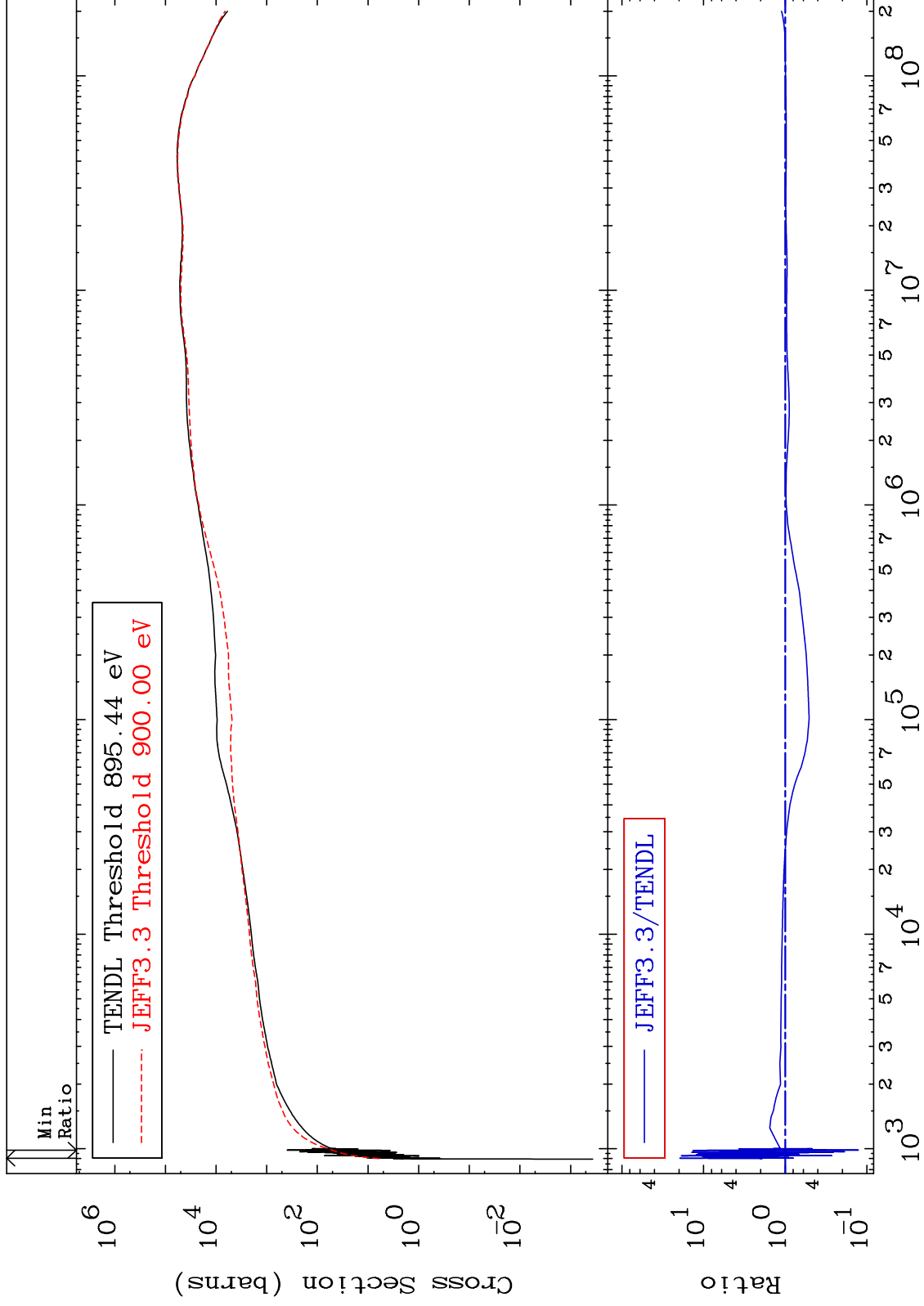
Incident Energy (eV)

62-Sm-151

MAT 6246

Dpa elastic (mt2)
Cross Section

62-Sm-151
-87.29 To 1842. %



79

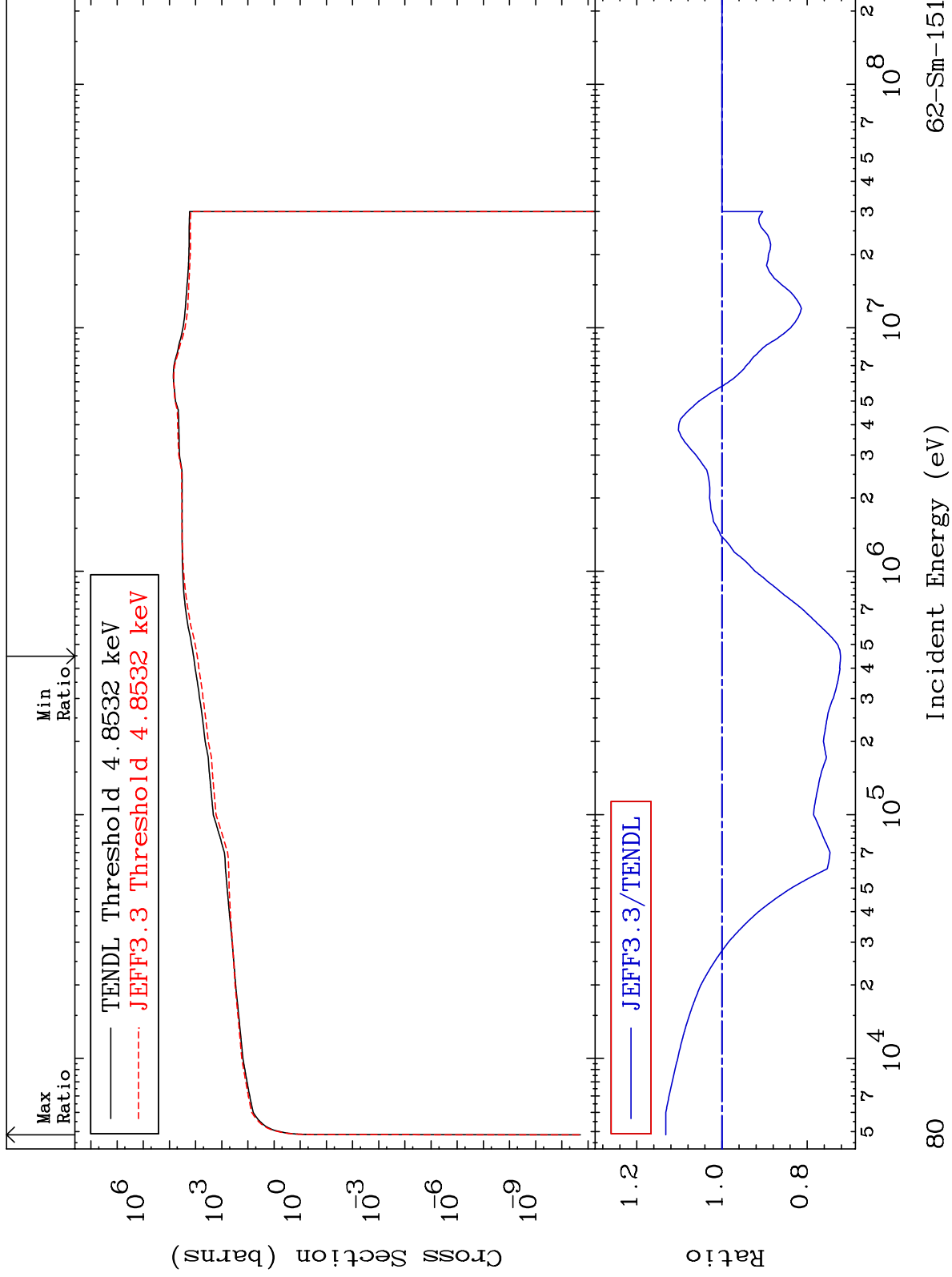
Incident Energy (eV)

62-Sm-151

MAT 6246

Dpa inelastic (mt51-91)
Cross Section

62-Sm-151
-27.83 To 13.19 %



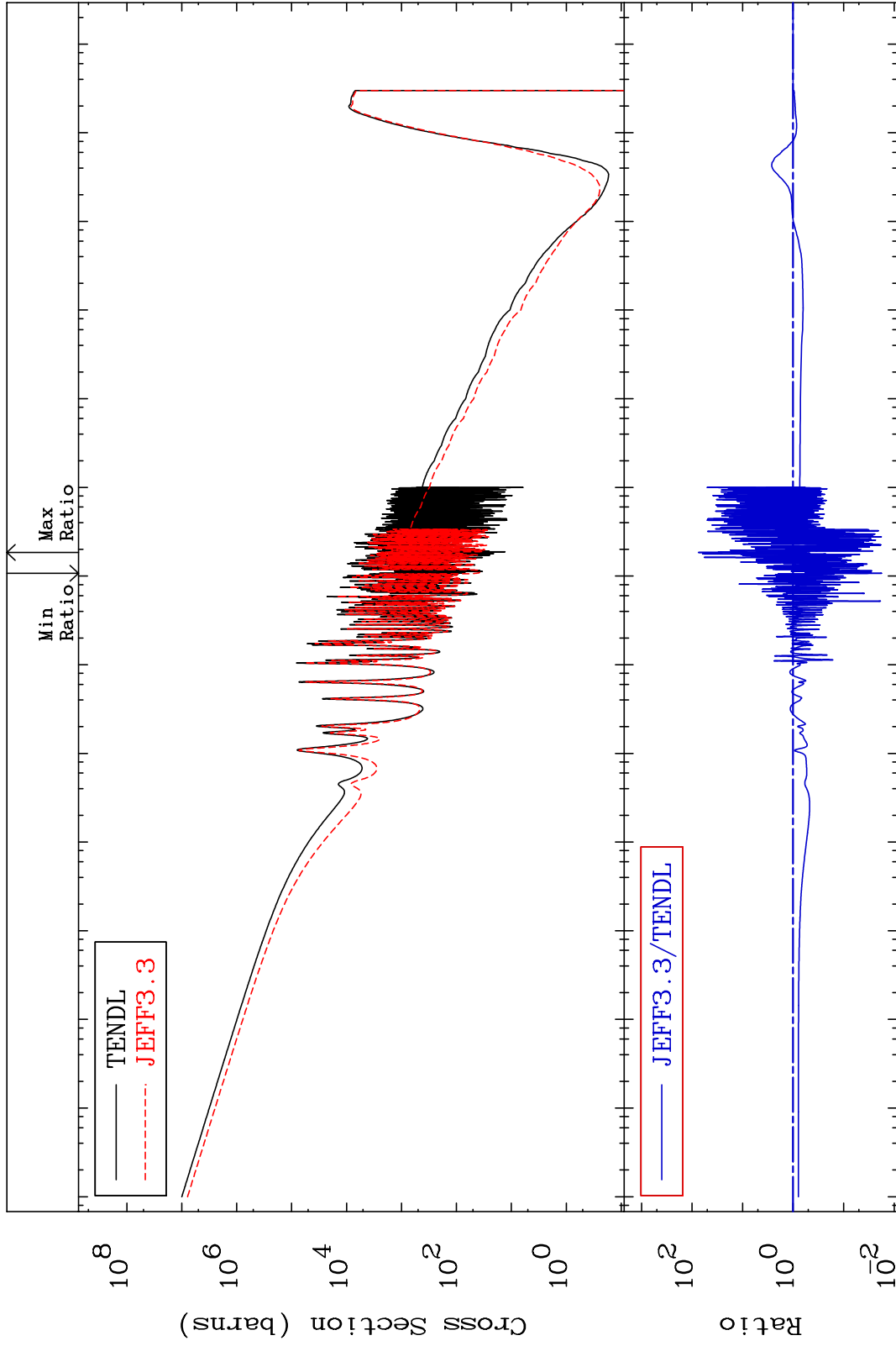
MAT 6246

Dpa disappearance (mt102 -120)

62-Sm-151

-98.22 To 7407. %

Cross Section



81

Incident Energy (eV)

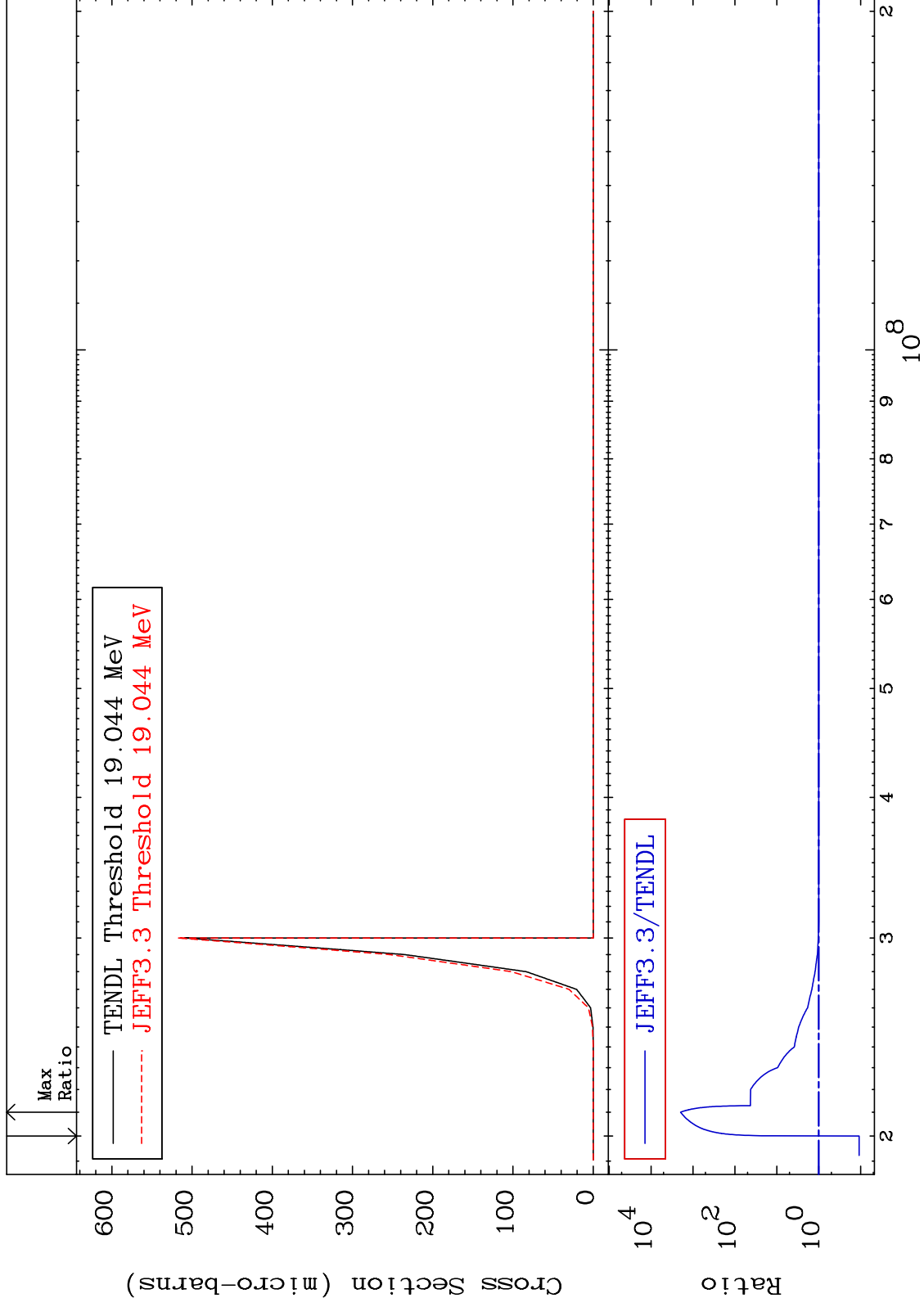
62-Sm-151

MAT 6246

(n,2n) d:61-Pm-148g

62-Sm-151

Radionuclide Production Cross Section -89.18 To 9999. %

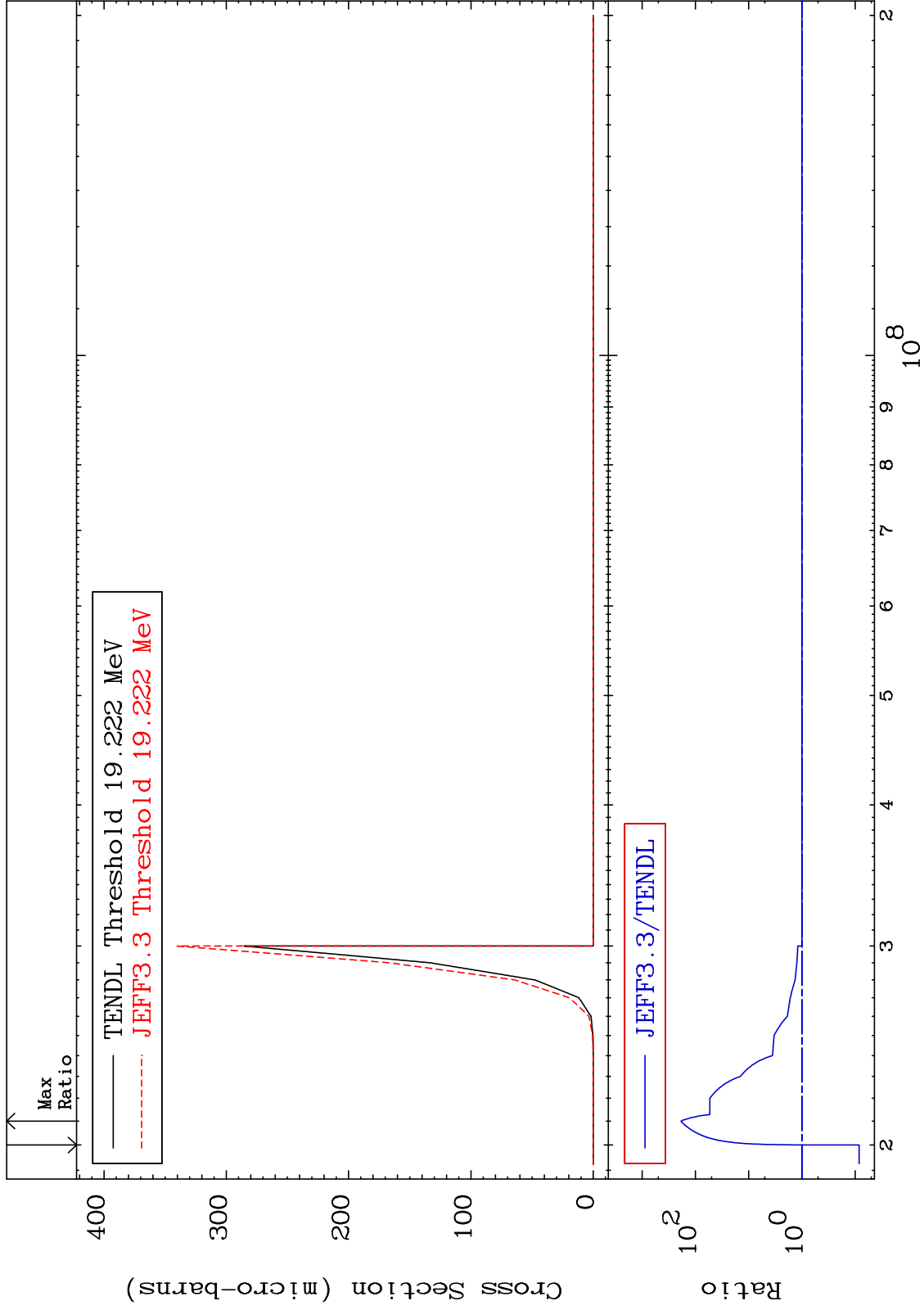


MAT 6246

(n,2n) d:61-Pm-148m3

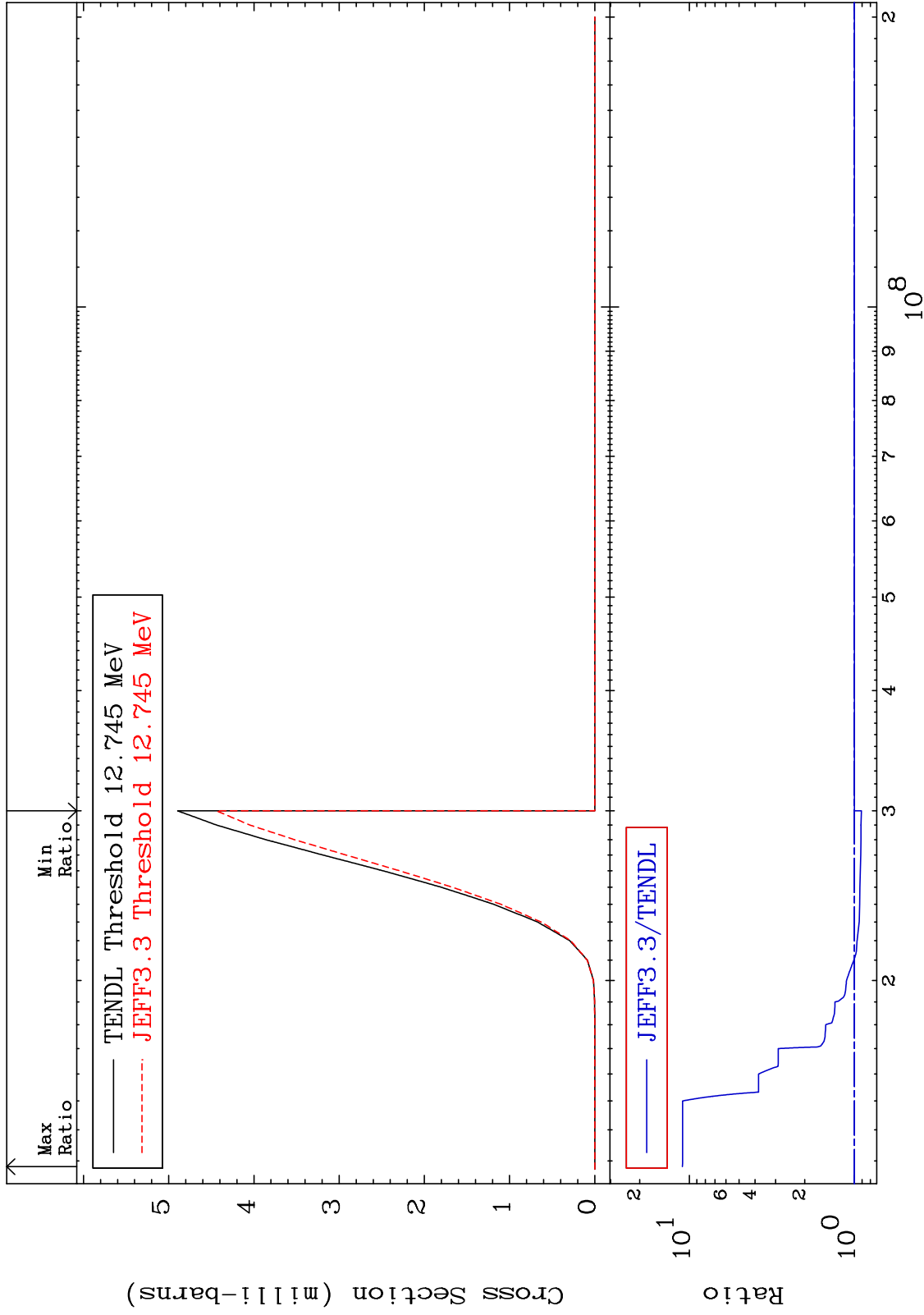
62-Sm-151

Radionuclide Production Cross Section -91.57 To 9999. %



MAT 6246

(n, n') t:61-Pm-148g 62-Sm-151
Radionuclide Production Cross Section -9.326 To 1001. %

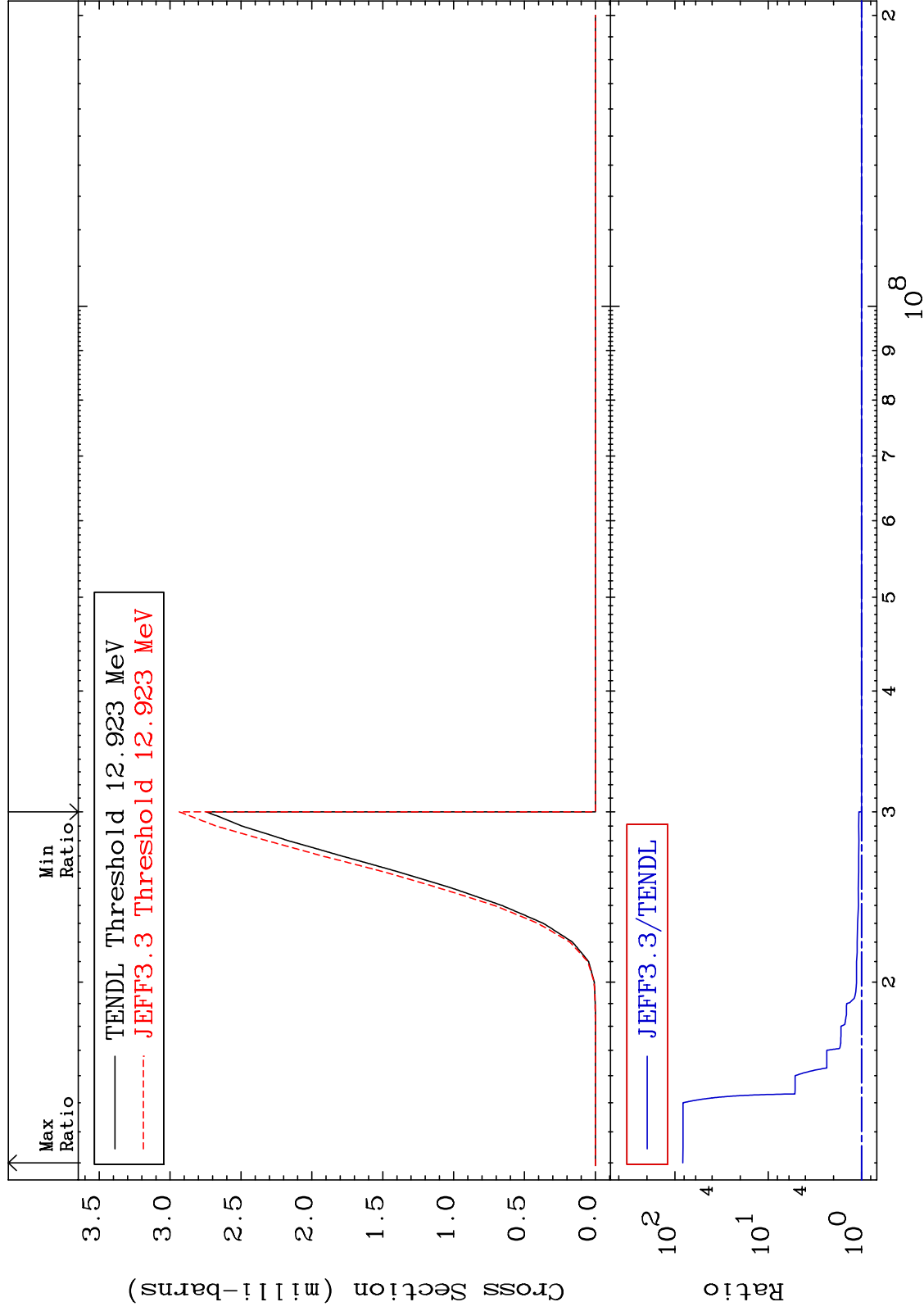


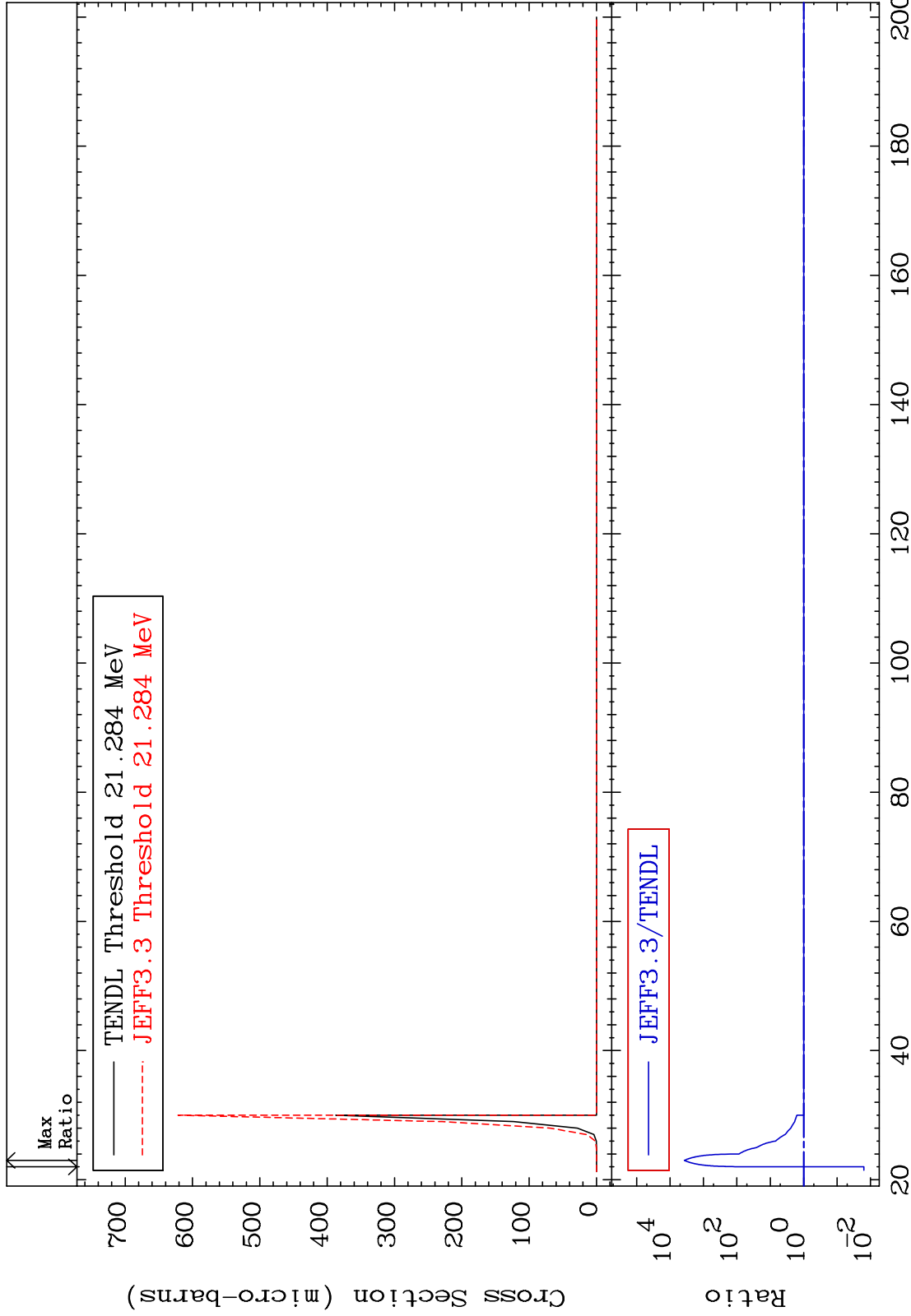
MAT 6246

(n, n') t: 61-Pm-148m3

62-Sm-151

Radionuclide Production Cross Section 0.000 To 8143. %



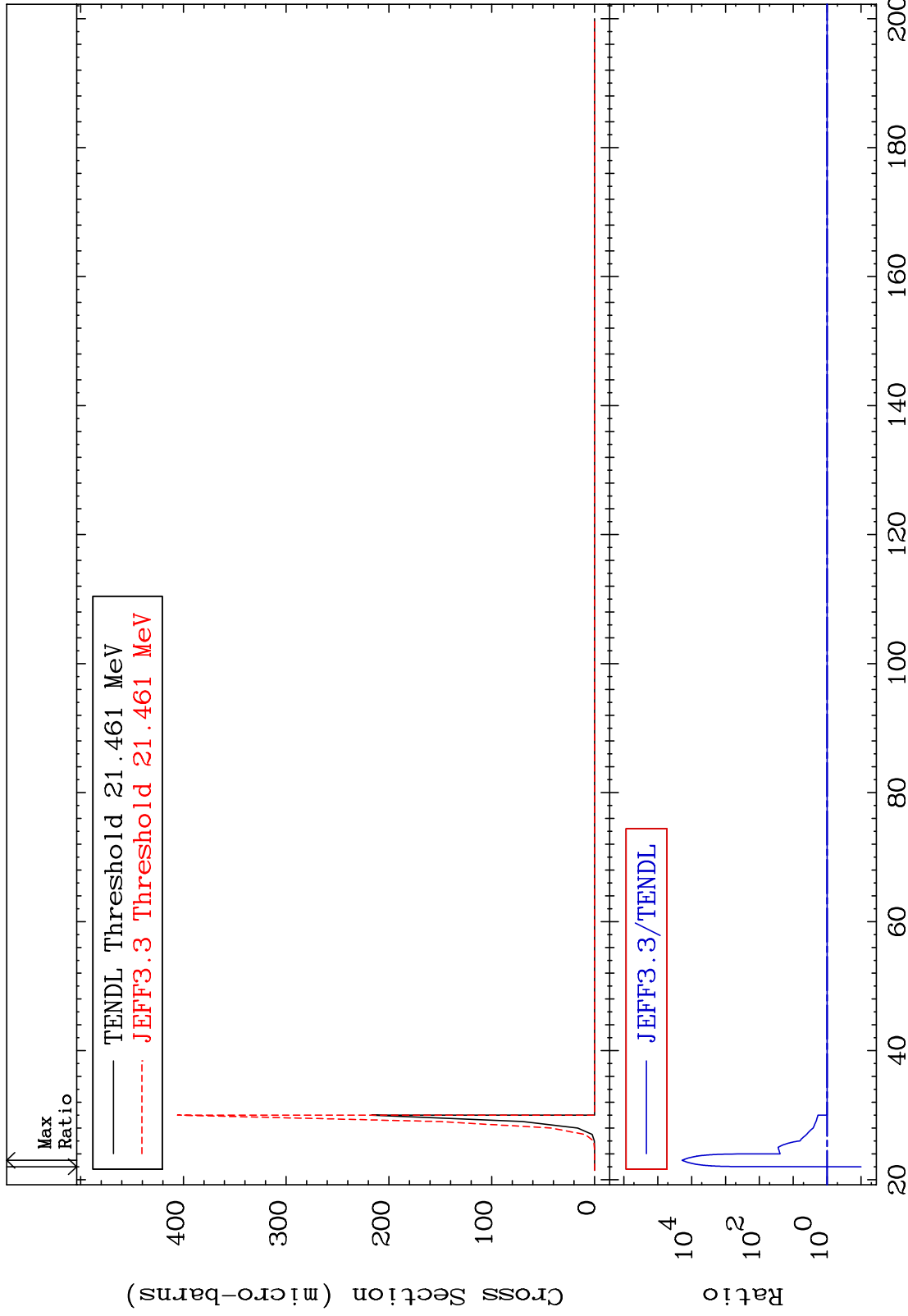


MAT 6246

(n,3n) p:61-Pm-148m3

62-Sm-151

Radionuclide Production Cross Section -89.99 To 9999. %



87

Incident Energy (MeV)

62-Sm-151