

Program Complot
(Version 2018-1)

by

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Press Mouse Button to Start

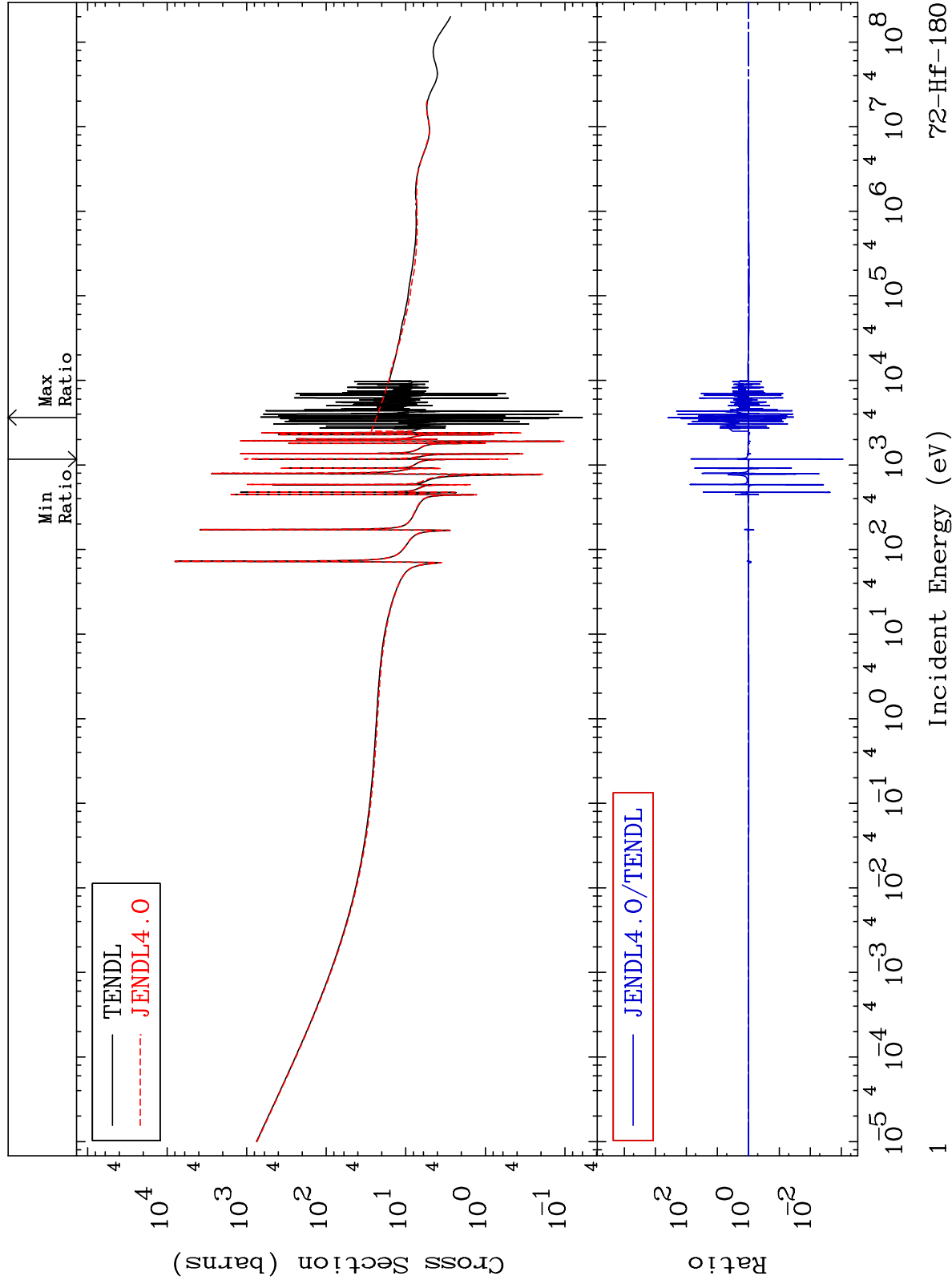
MAT 7243

Total

⁷²Hf-180

Cross Section

-99.91 To 9999. %

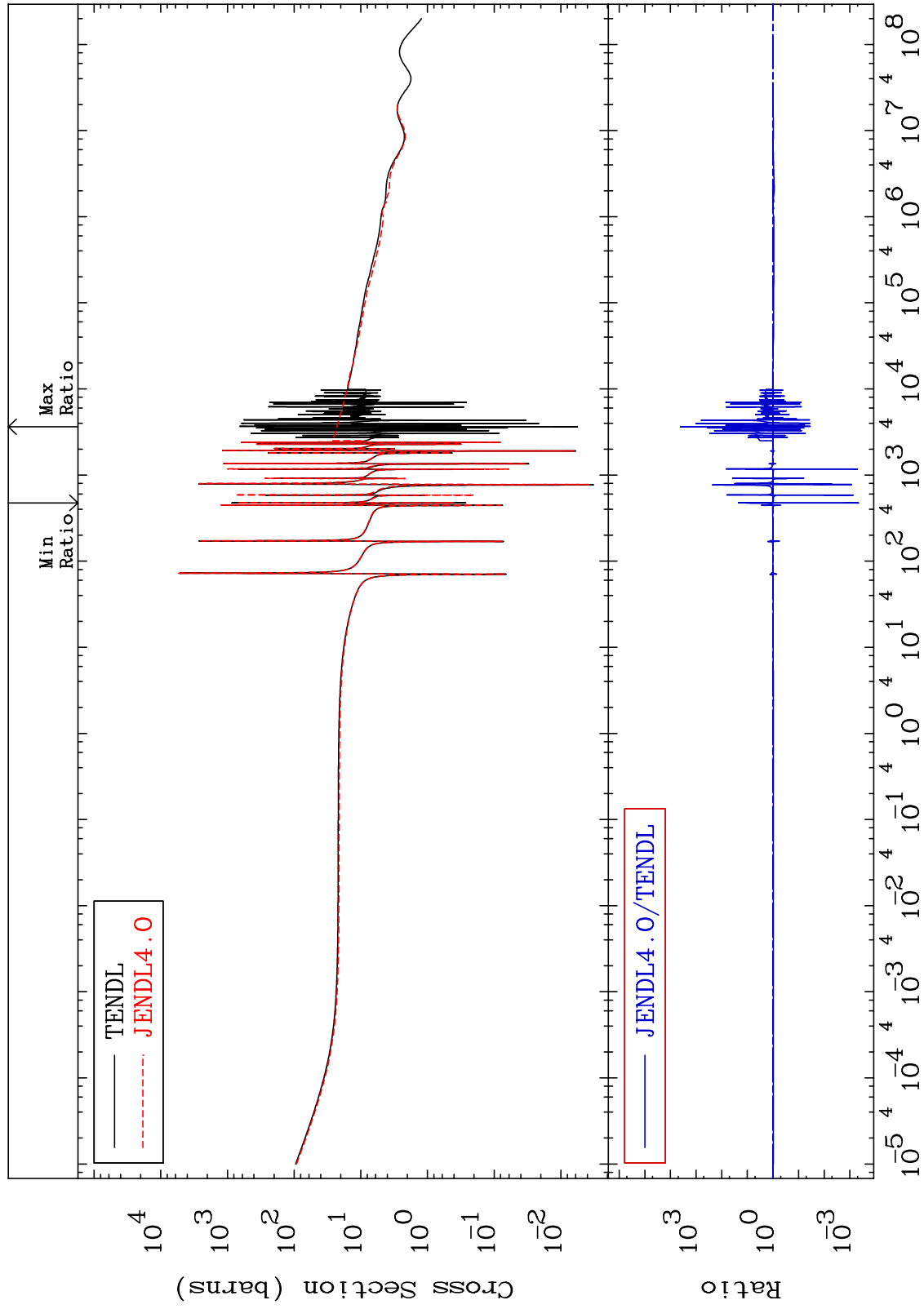


⁷²Hf-180

MAT 7243

Elastic
Cross Section

72-Hf-180
-99.95 To 9999. %



2

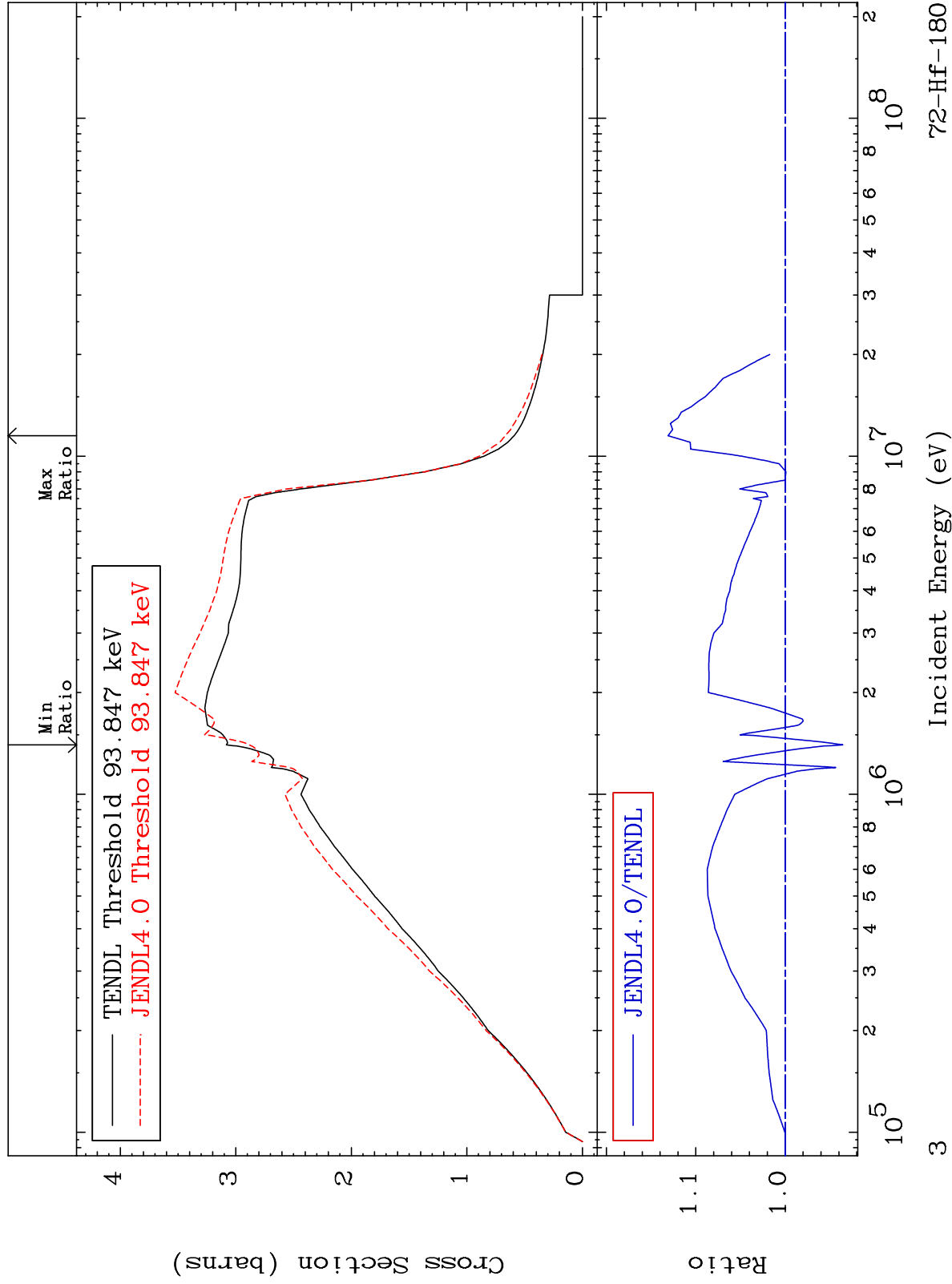
Incident Energy (eV)

72-Hf-180

MAT 7243

Inelastic
Cross Section

72-Hf-180
-6.447 To 13.11 %



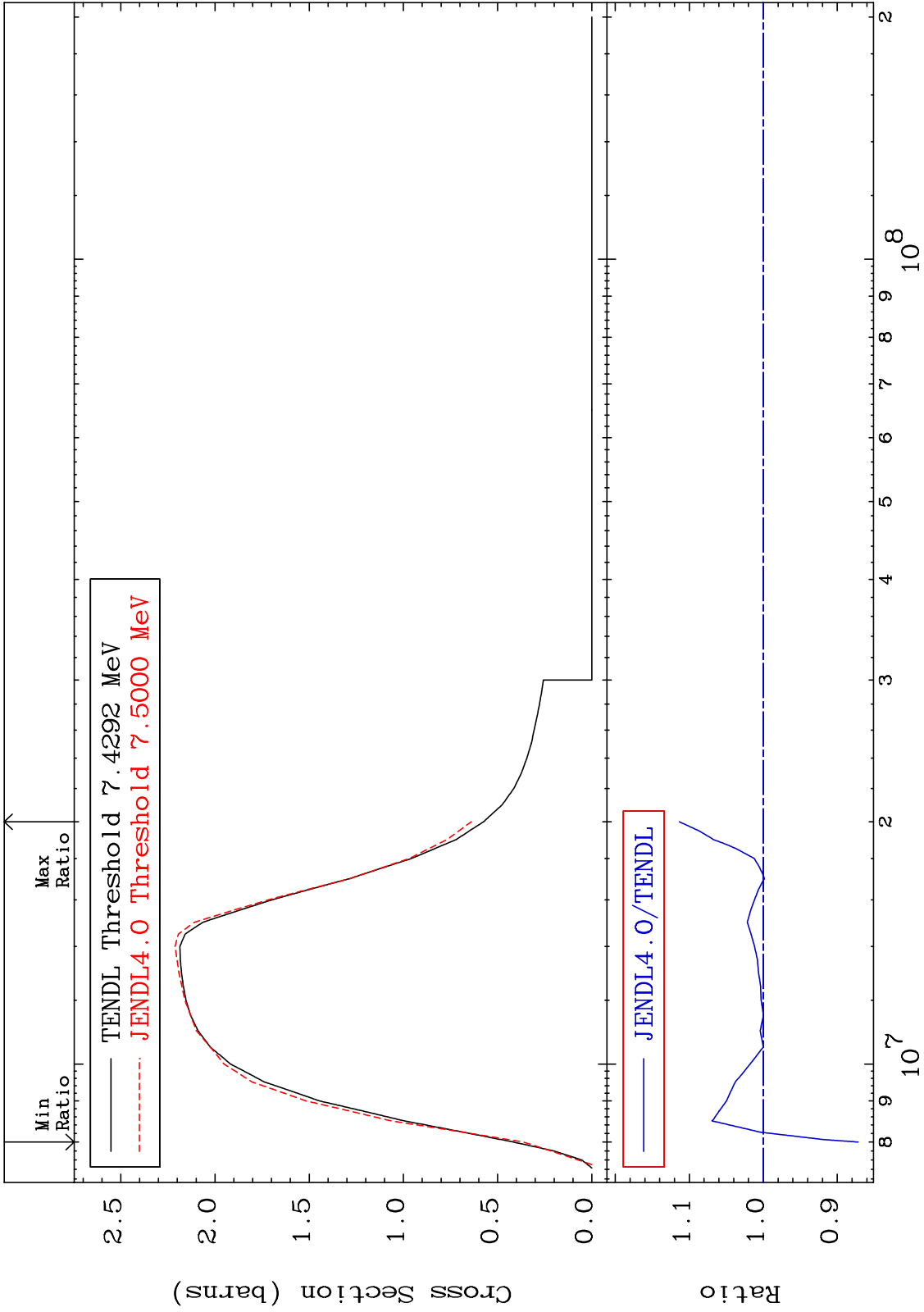
MAT 7243

(n,2n)

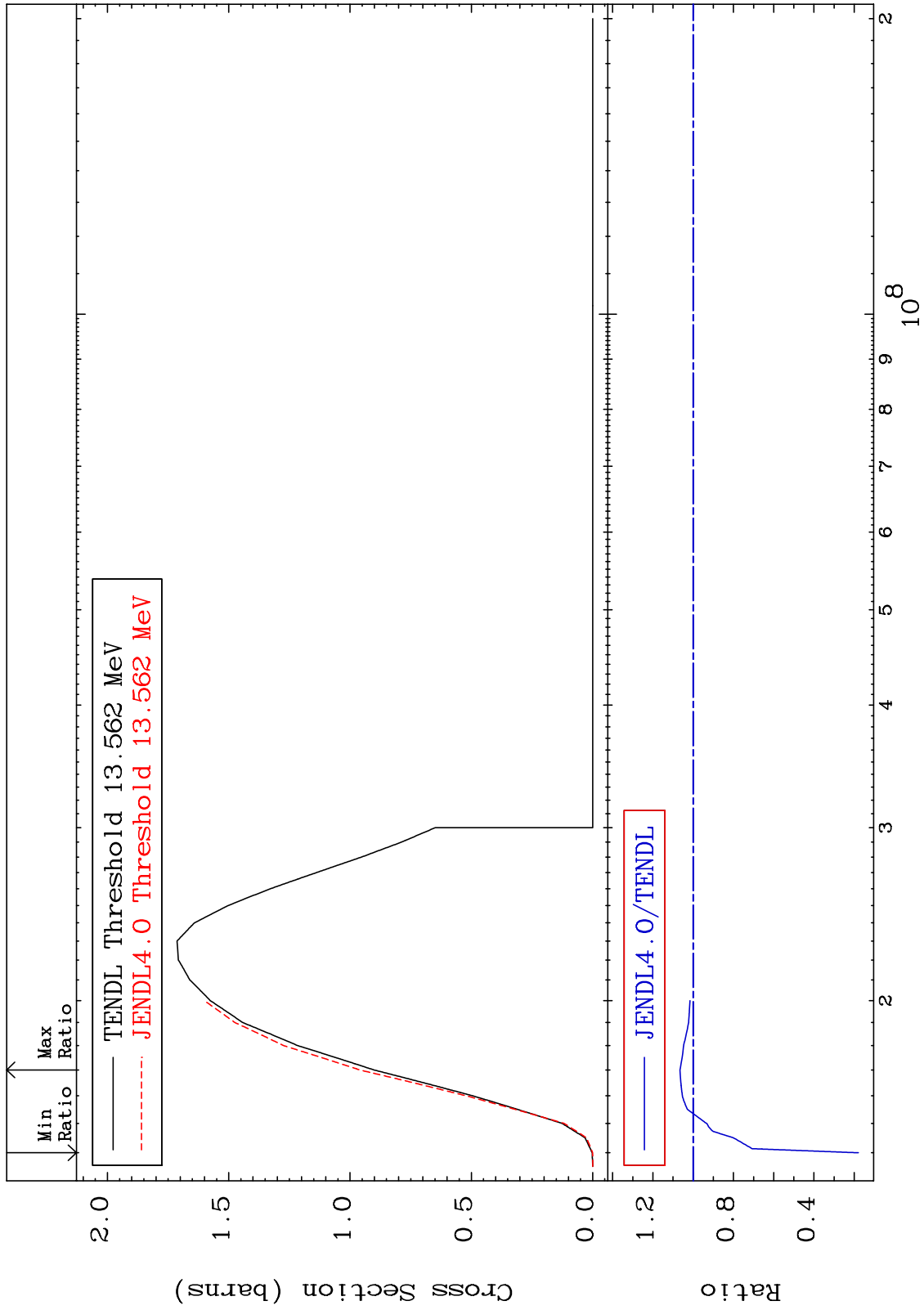
⁷²Hf-180

Cross Section

-12.84 To 11.34 %



MAT 7243 (n, 3n) Cross Section 72-Hf-180 -82.07 To 6.525 %



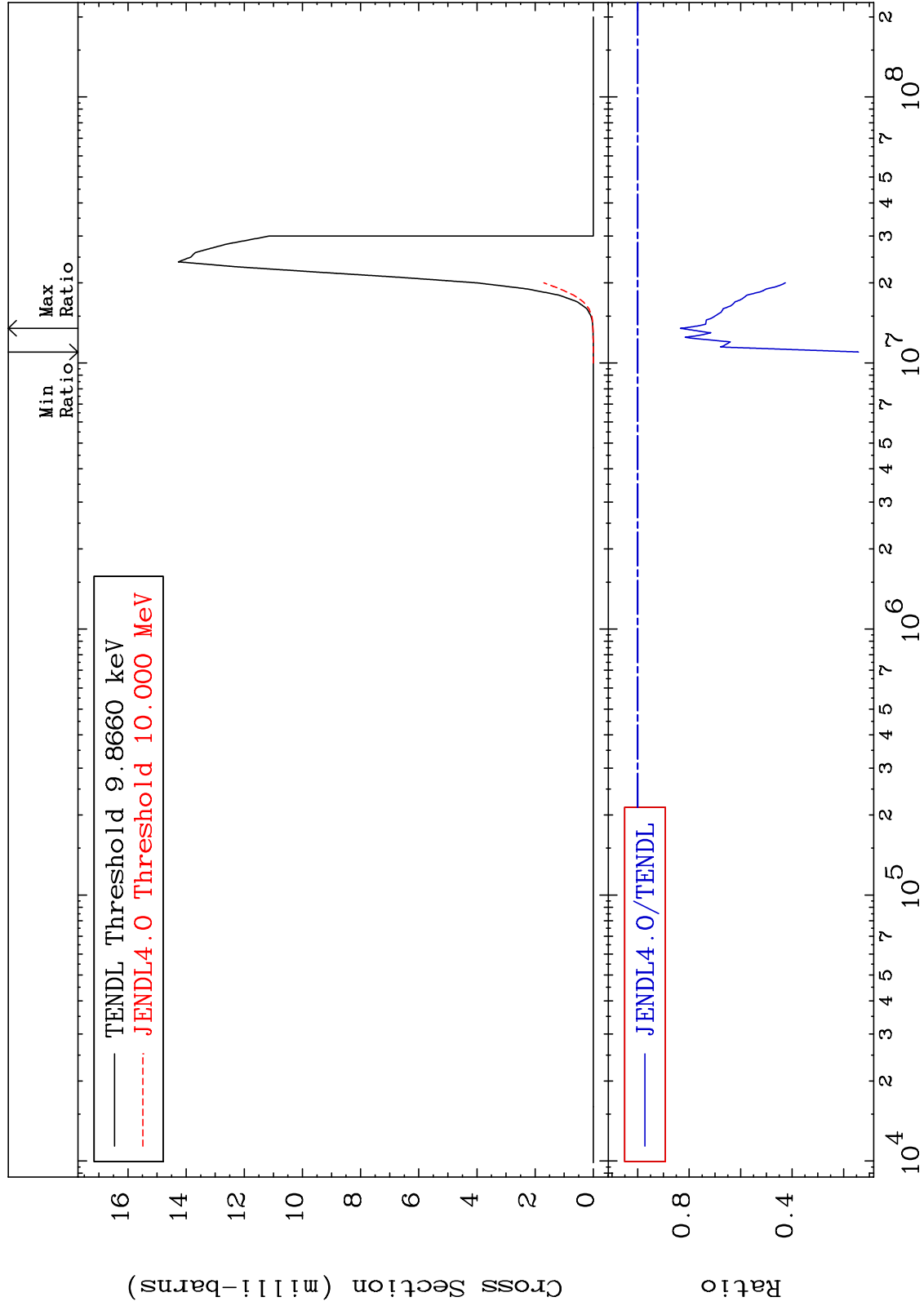
MAT 7243

(n, n') α

Cross Section

72-Hf-180

-85.81 To -16.60%



72-Hf-180

72-Hf-180

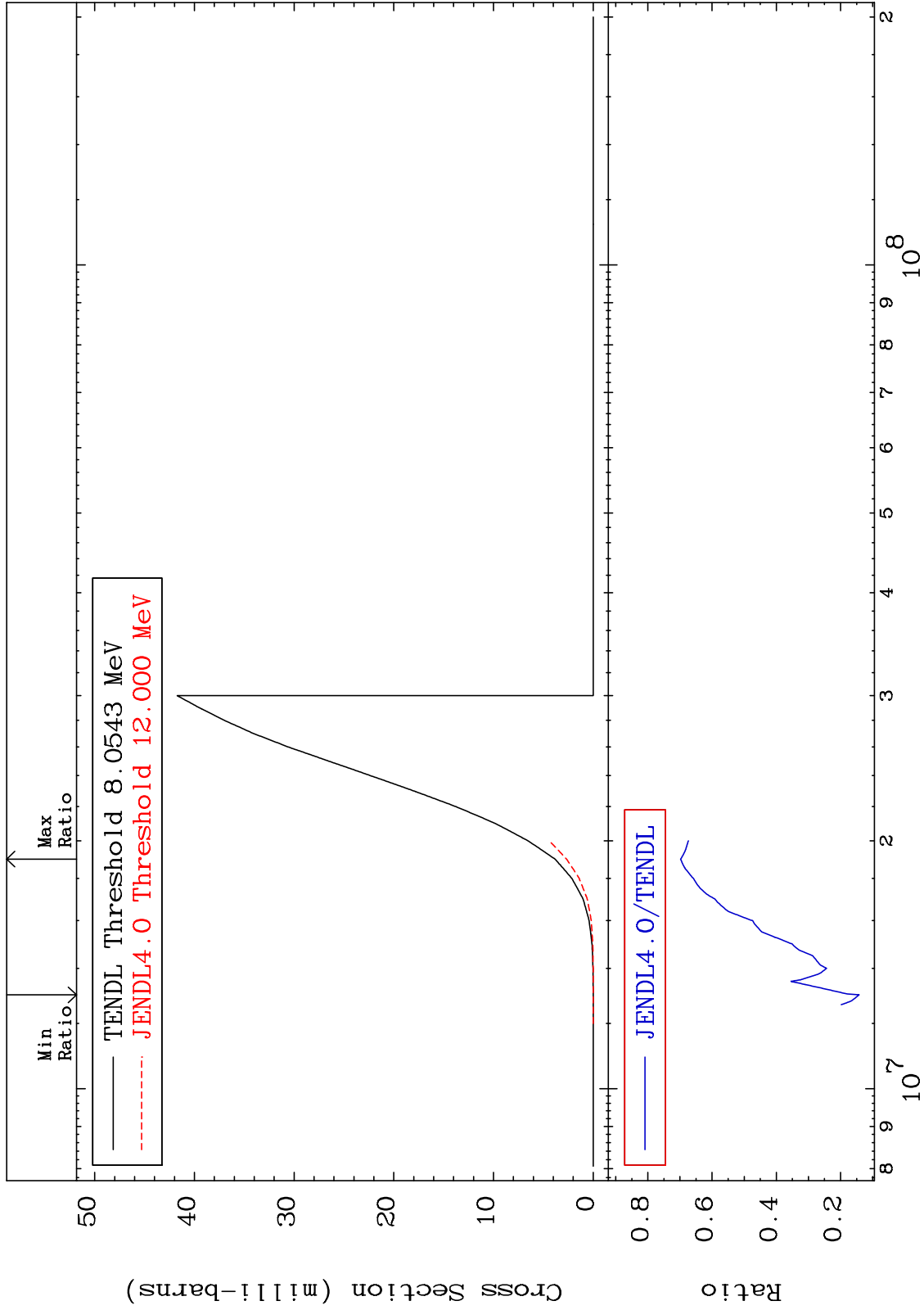
MAT 7243

(n,n') p

72-Hf-180

Cross Section

-85.79 To -30.20%



7

Incident Energy (eV)

72-Hf-180

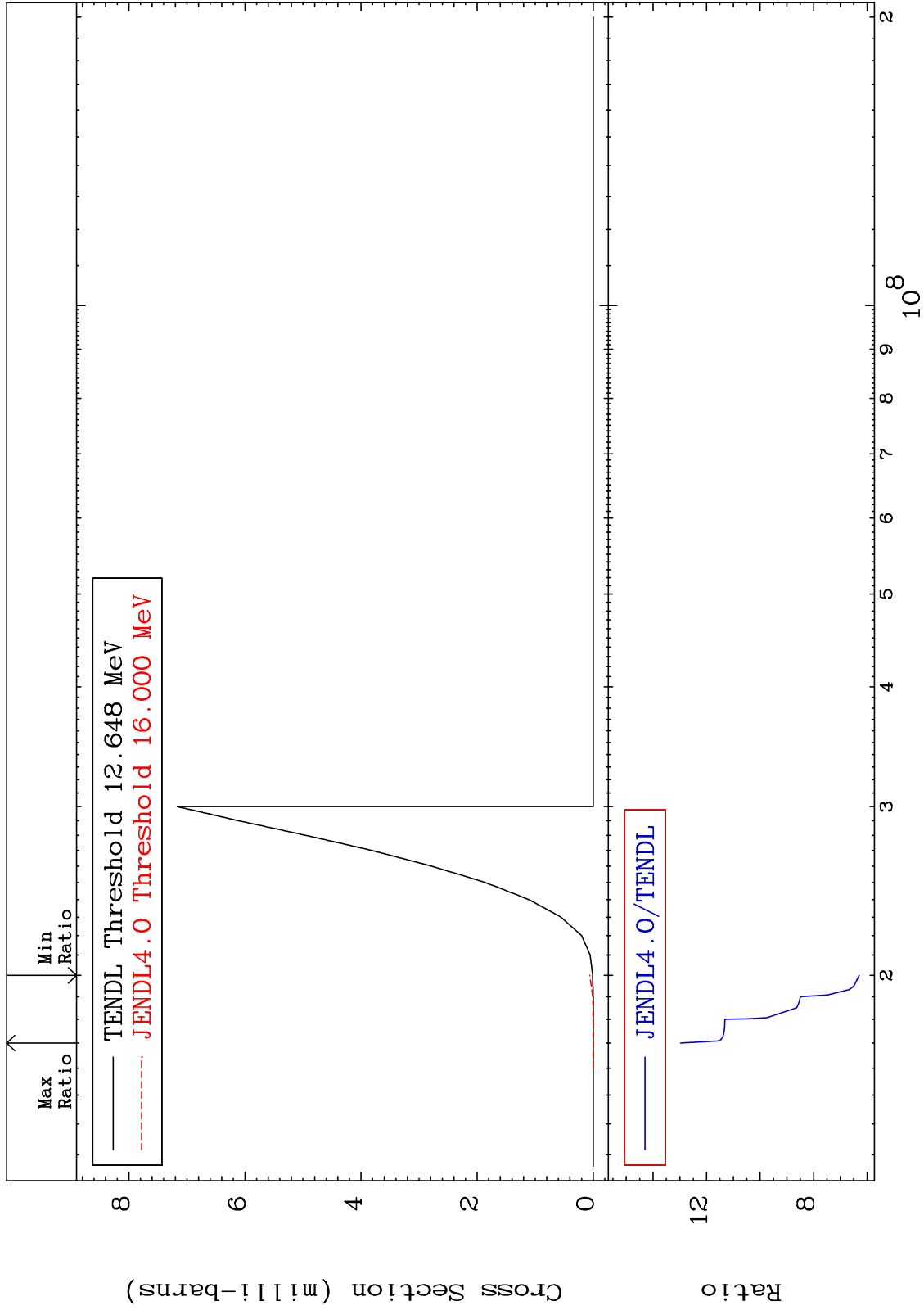
MAT 7243

(n,n') d

72-Hf-180

Cross Section

529.8 To 1197. %



8

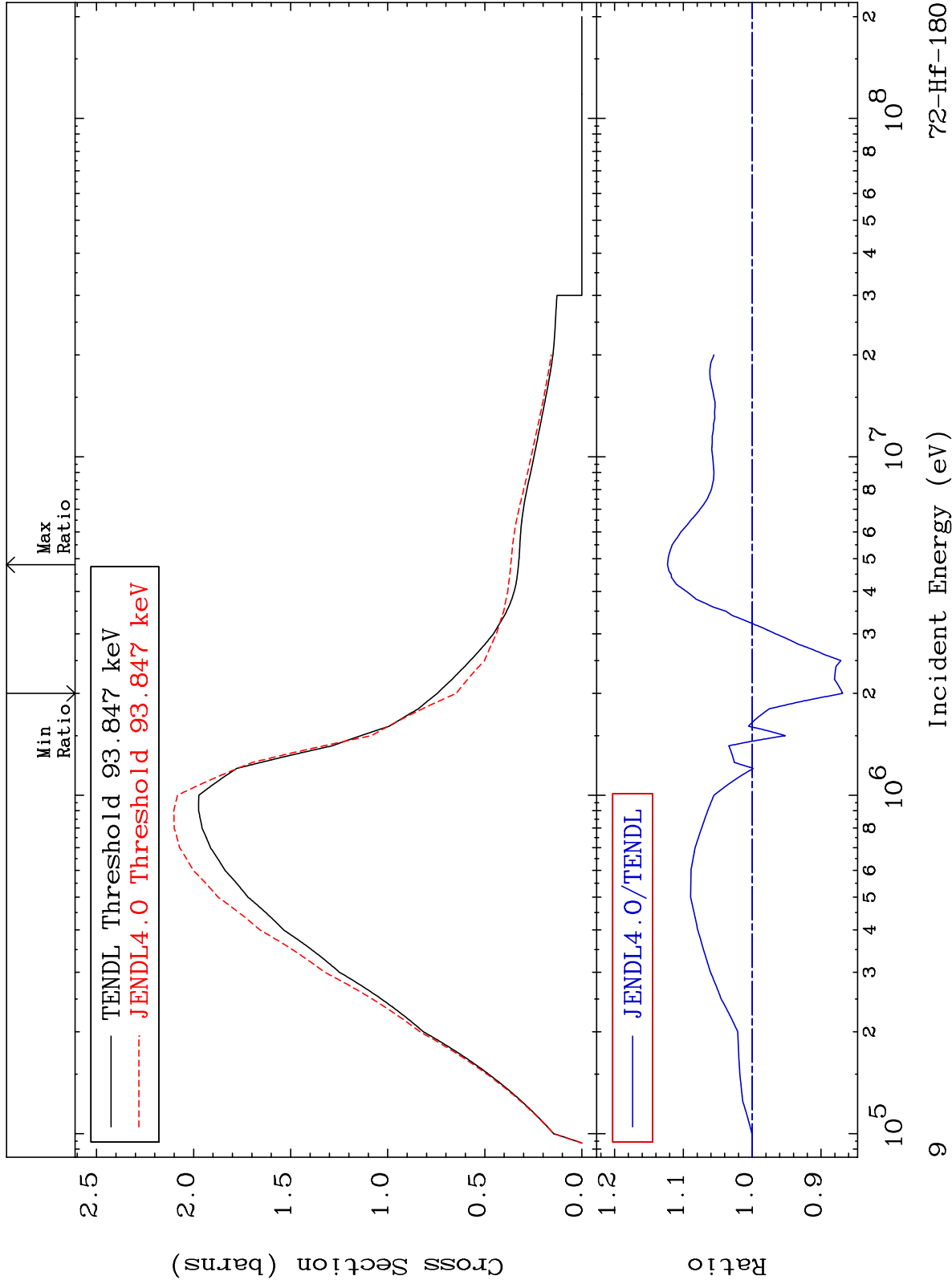
Incident Energy (eV)

72-Hf-180

MAT 7243

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

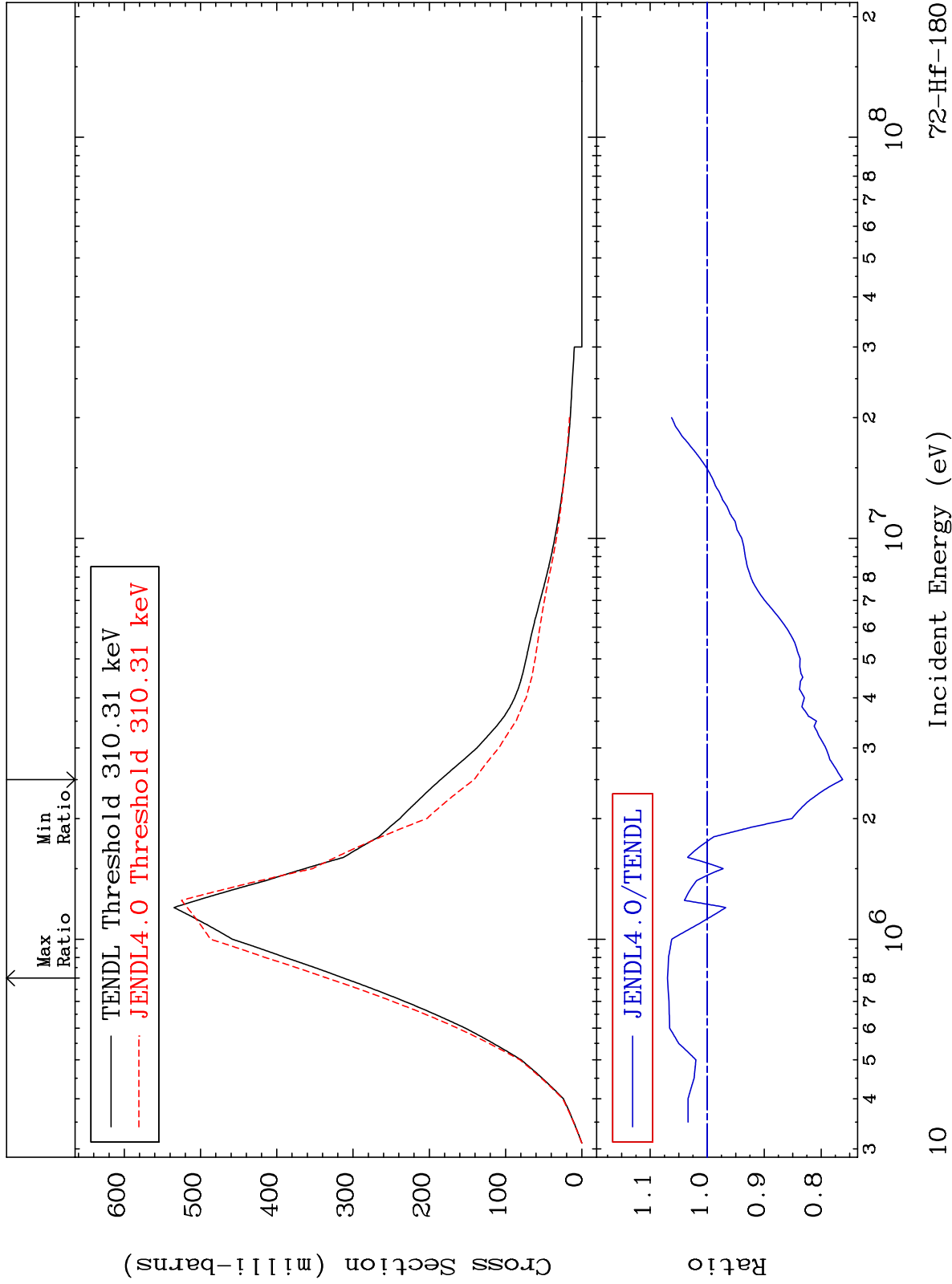
72-Hf-180
-13.14 To 12.31 %



MAT 7243

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

72-Hf-180
-23.78 To 6.962 %



10

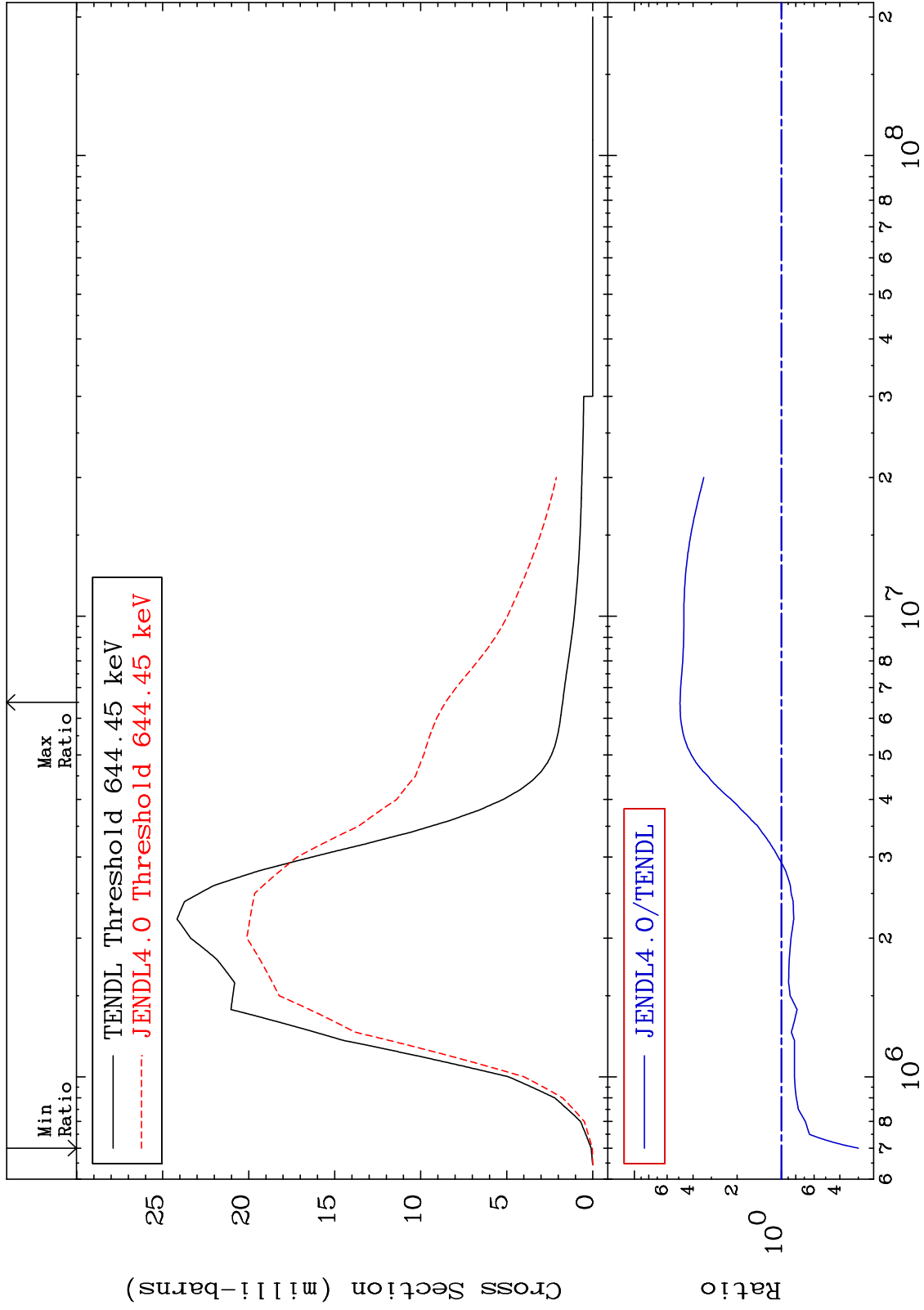
Incident Energy (eV)

72-Hf-180

MAT 7243

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

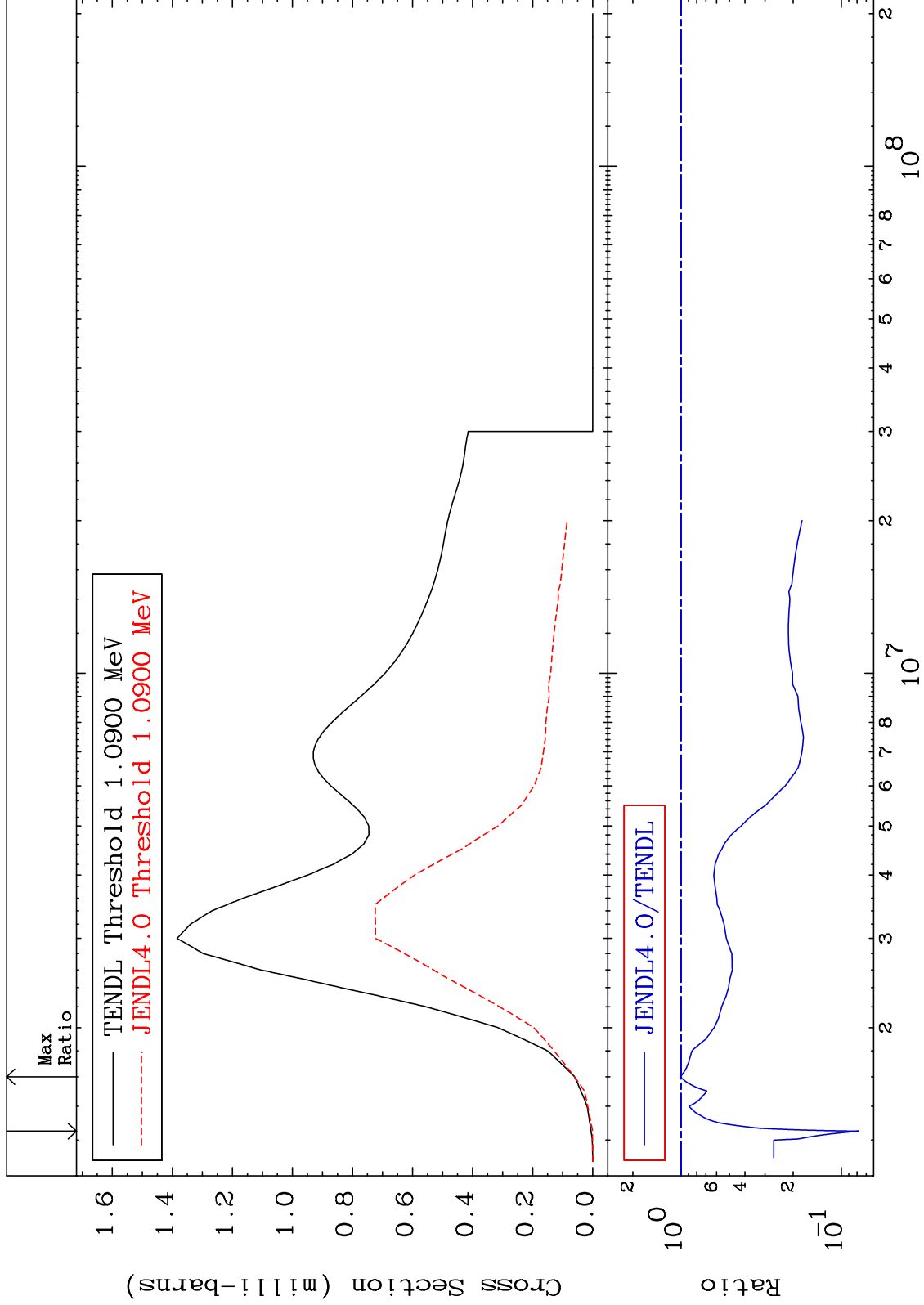
72-Hf-180
-70.06 To 389.7 %



MAT 7243

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

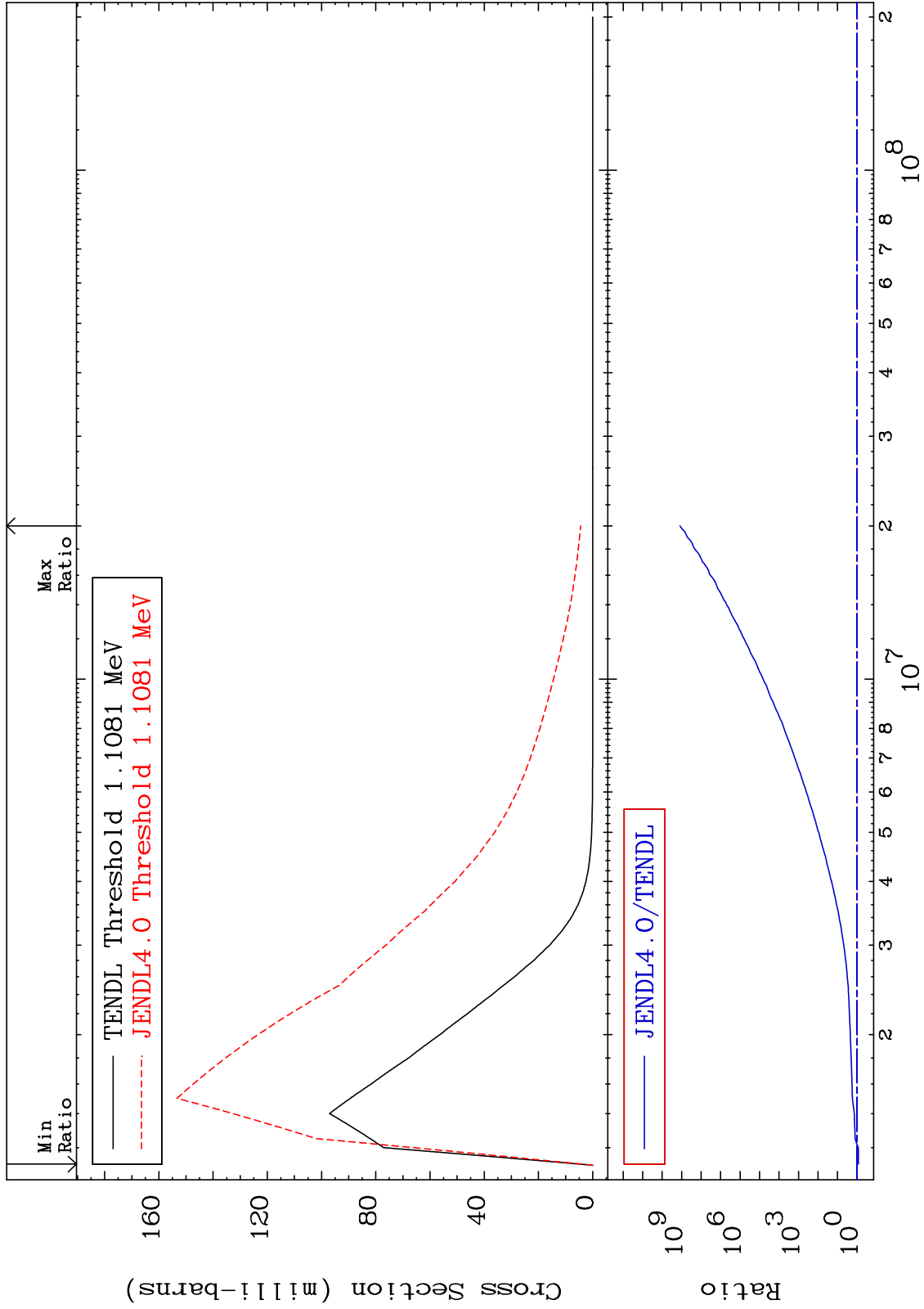
72-Hf-180
-92.16 To 1.611 %



MAT 7243

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

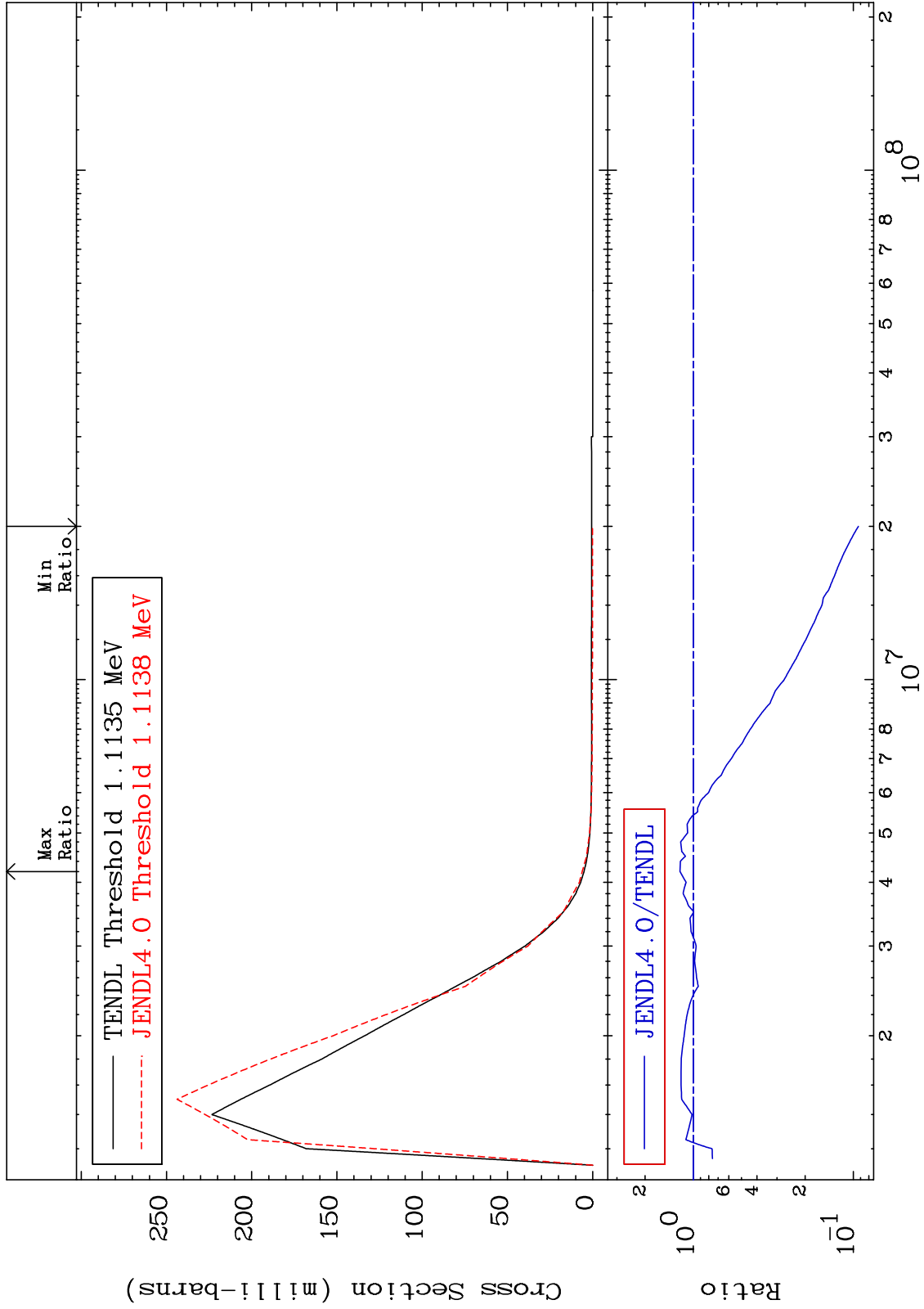
72-Hf-180
-15.73 To 9999. %



MAT 7243

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

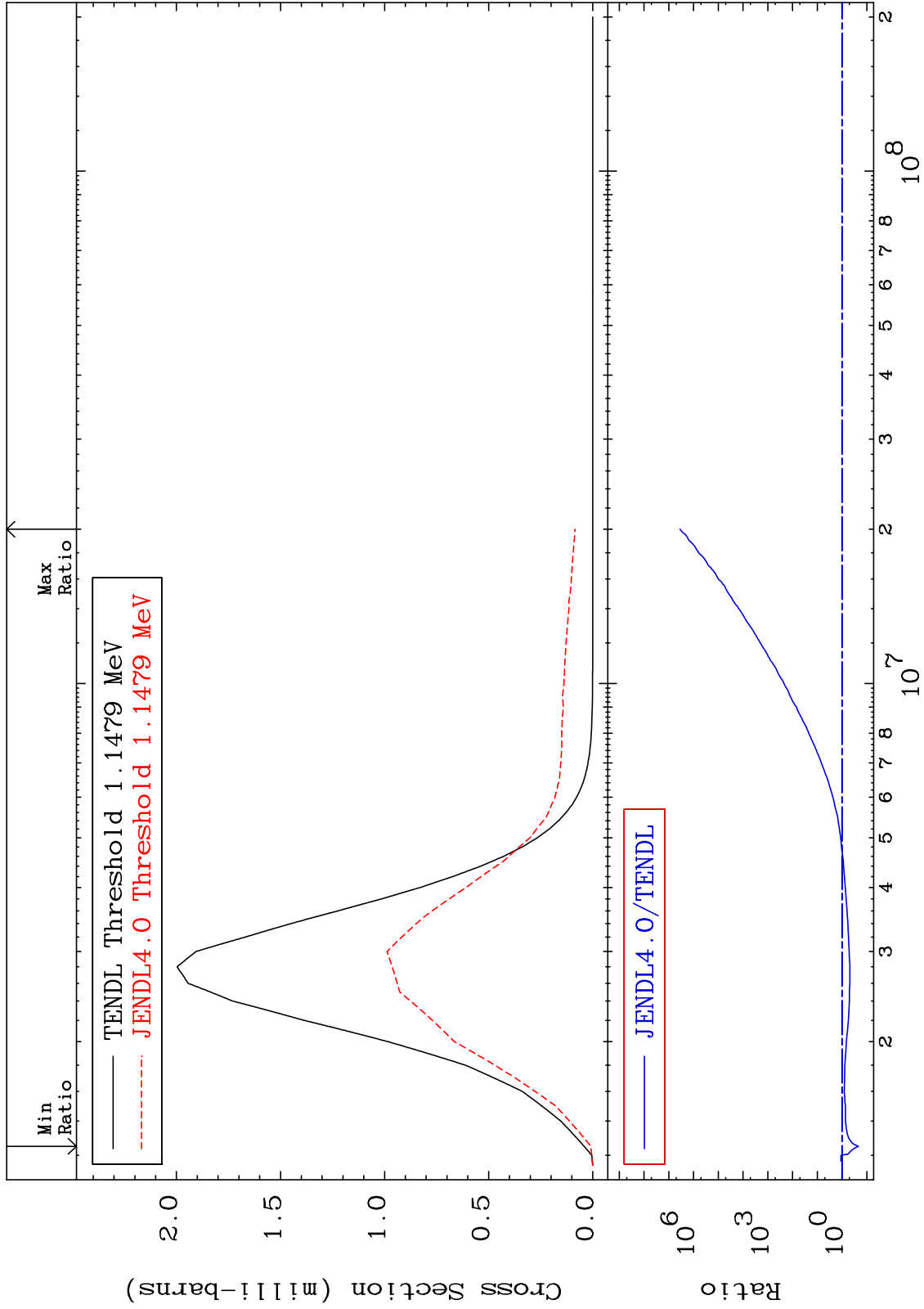
⁷²Hf-180
-90.71 To 20.92 %



MAT 7243

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

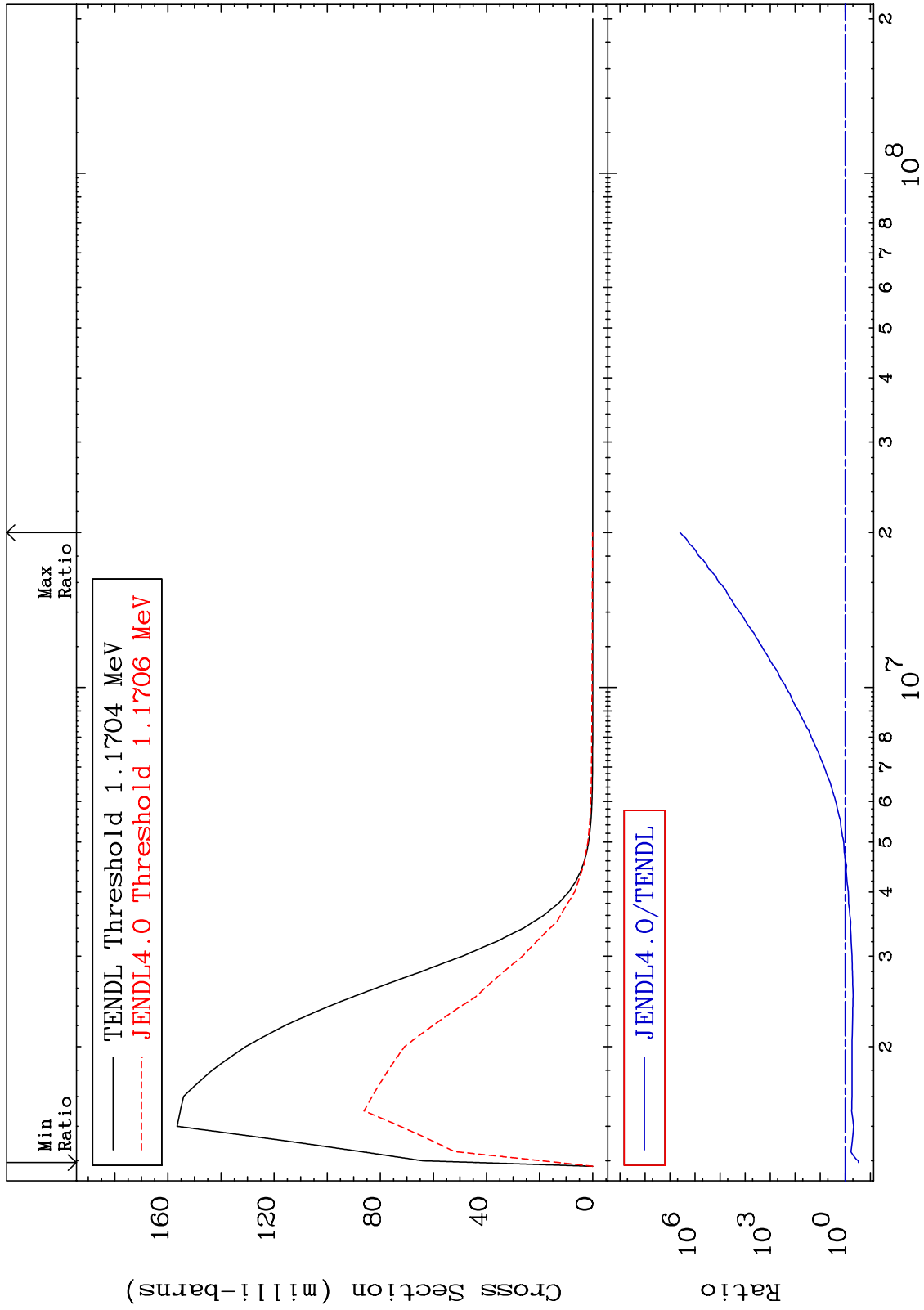
72-Hf-180
-78.16 To 9999. %



MAT 7243

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

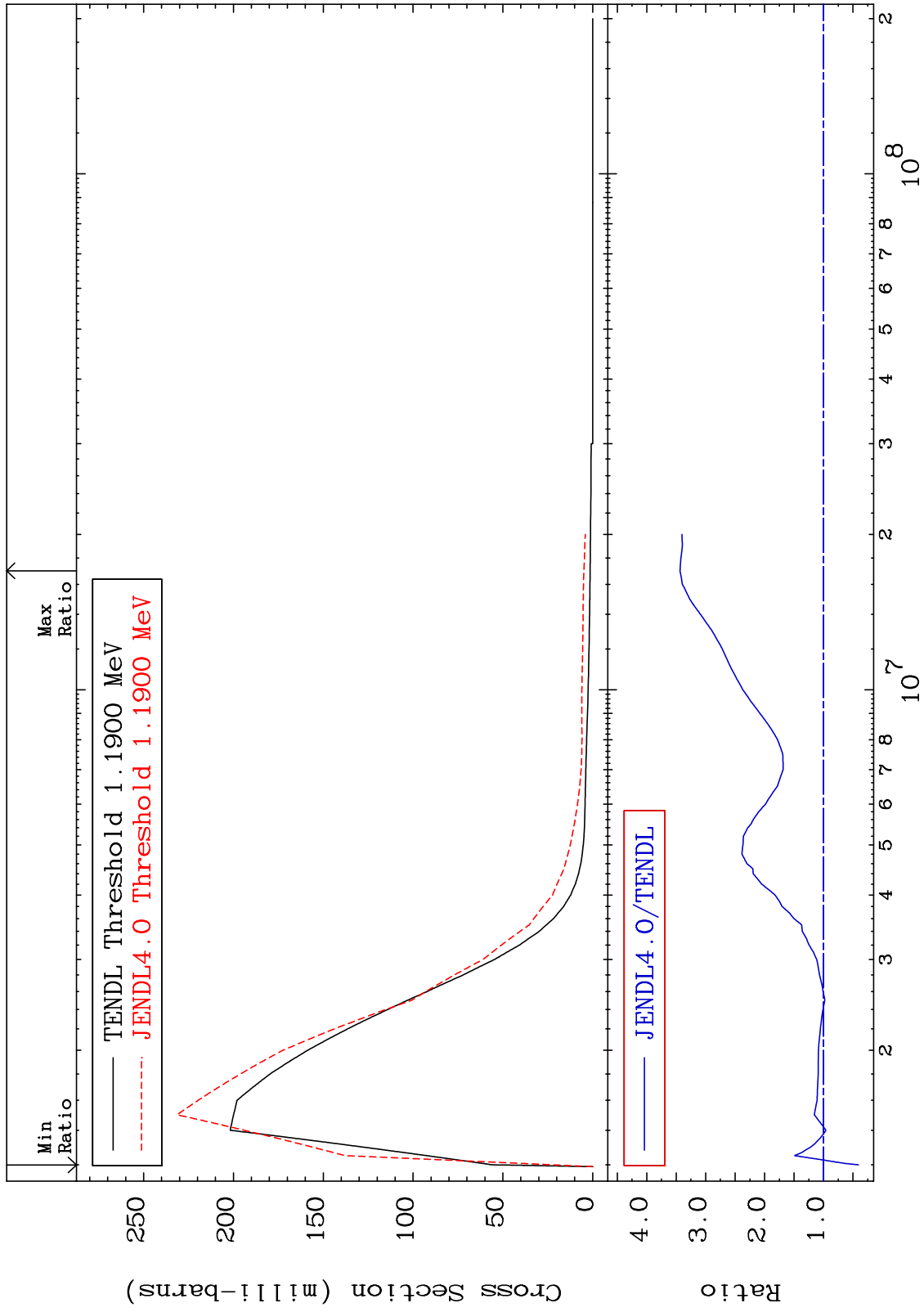
72-Hf-180
-70.11 To 9999. %



MAT 7243

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

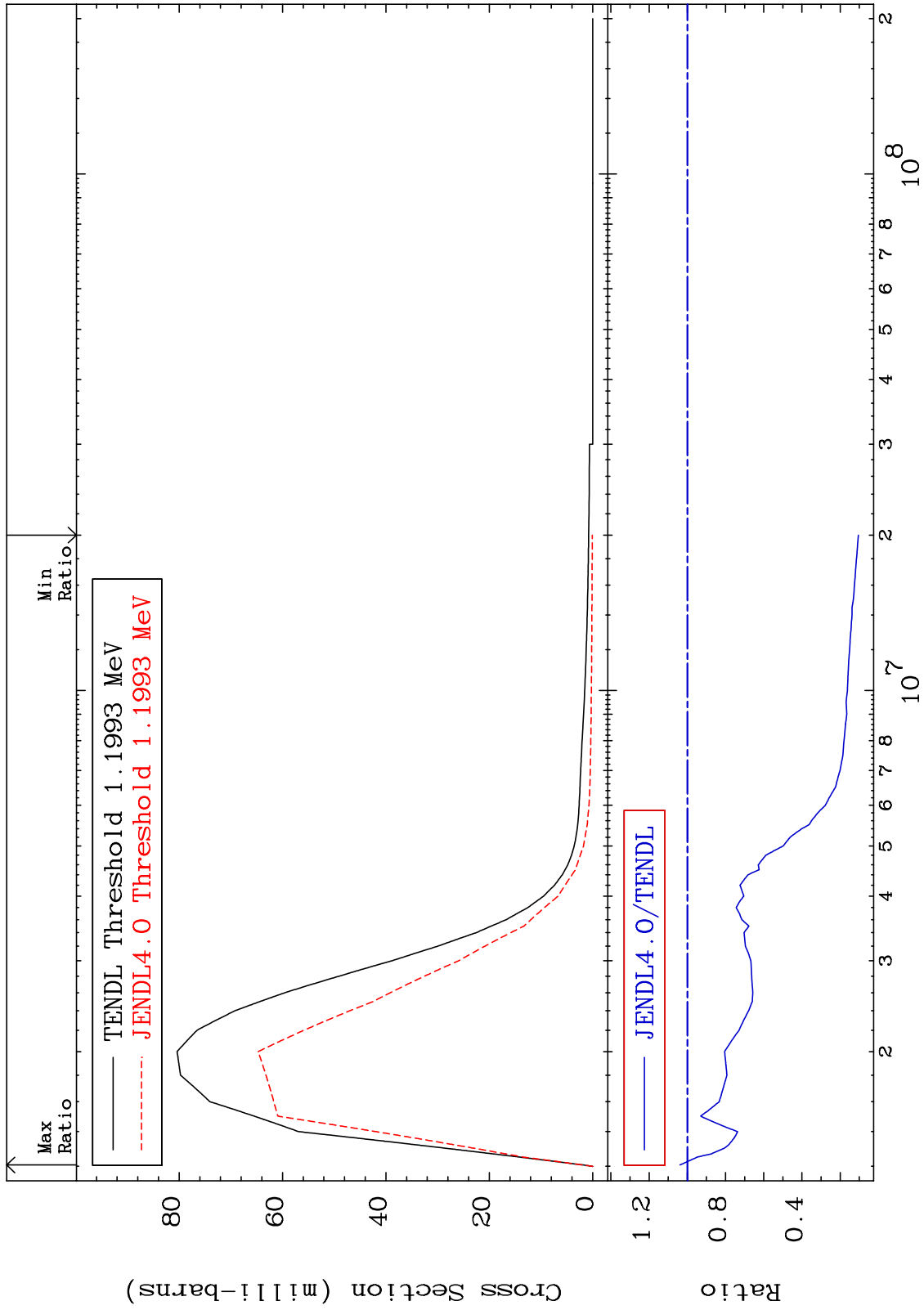
72-Hf-180
-59.16 To 243.5 %



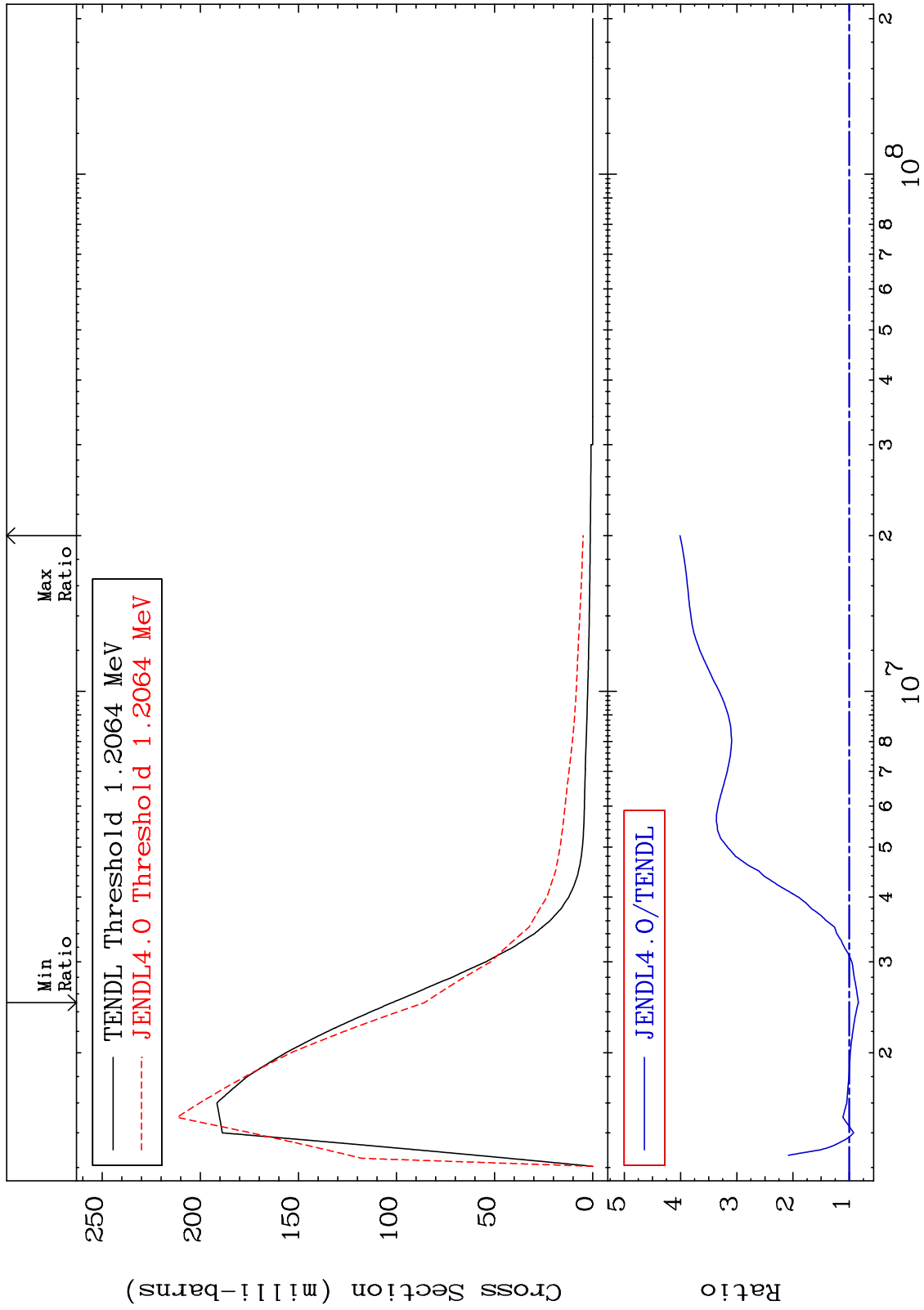
MAT 7243

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

72-Hf-180
-89.54 To 3.815 %



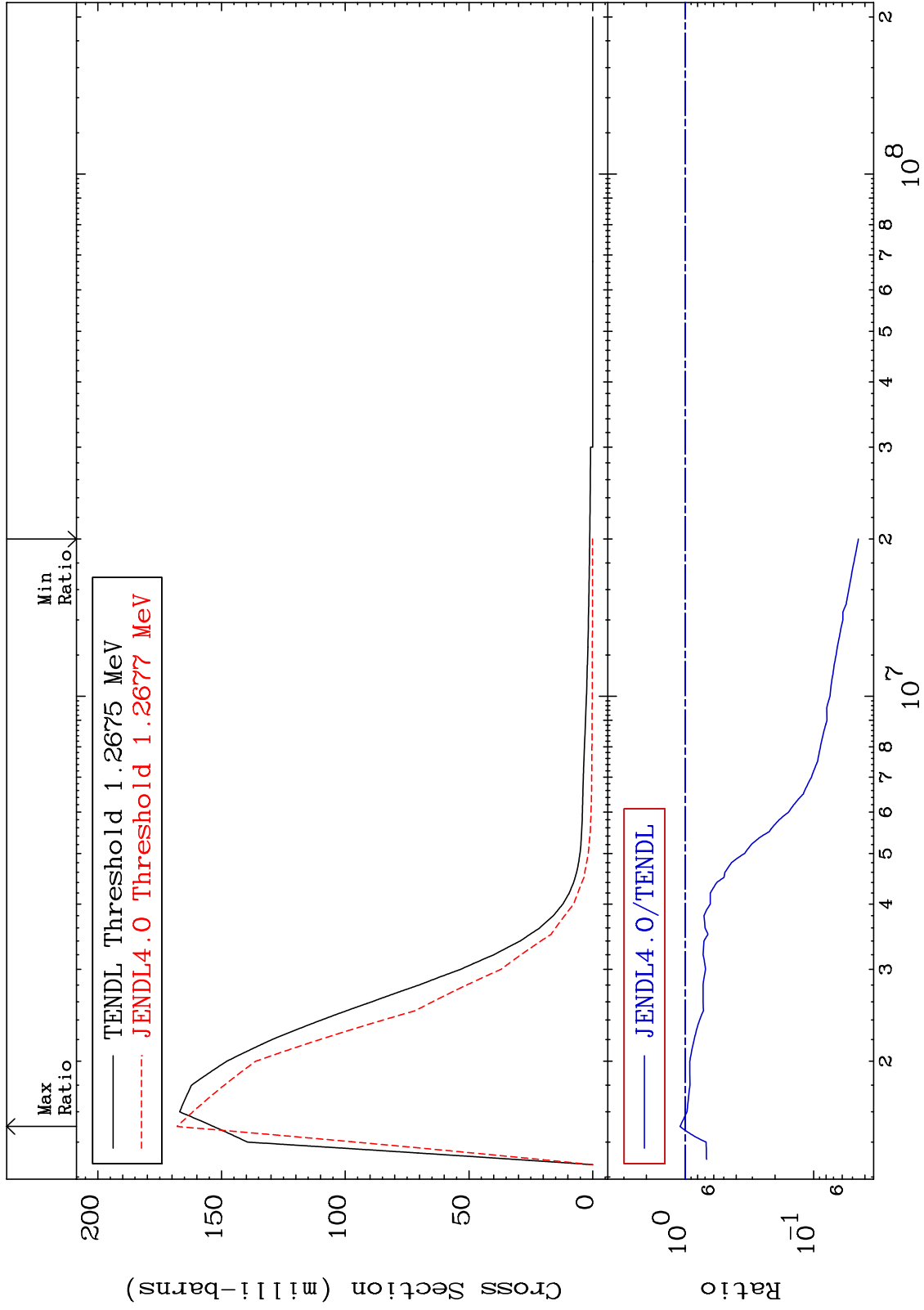
MAT 7243 MT= 61 (n, n') Level
 Cross Section -16.23 To 300.9 % 72-Hf-180



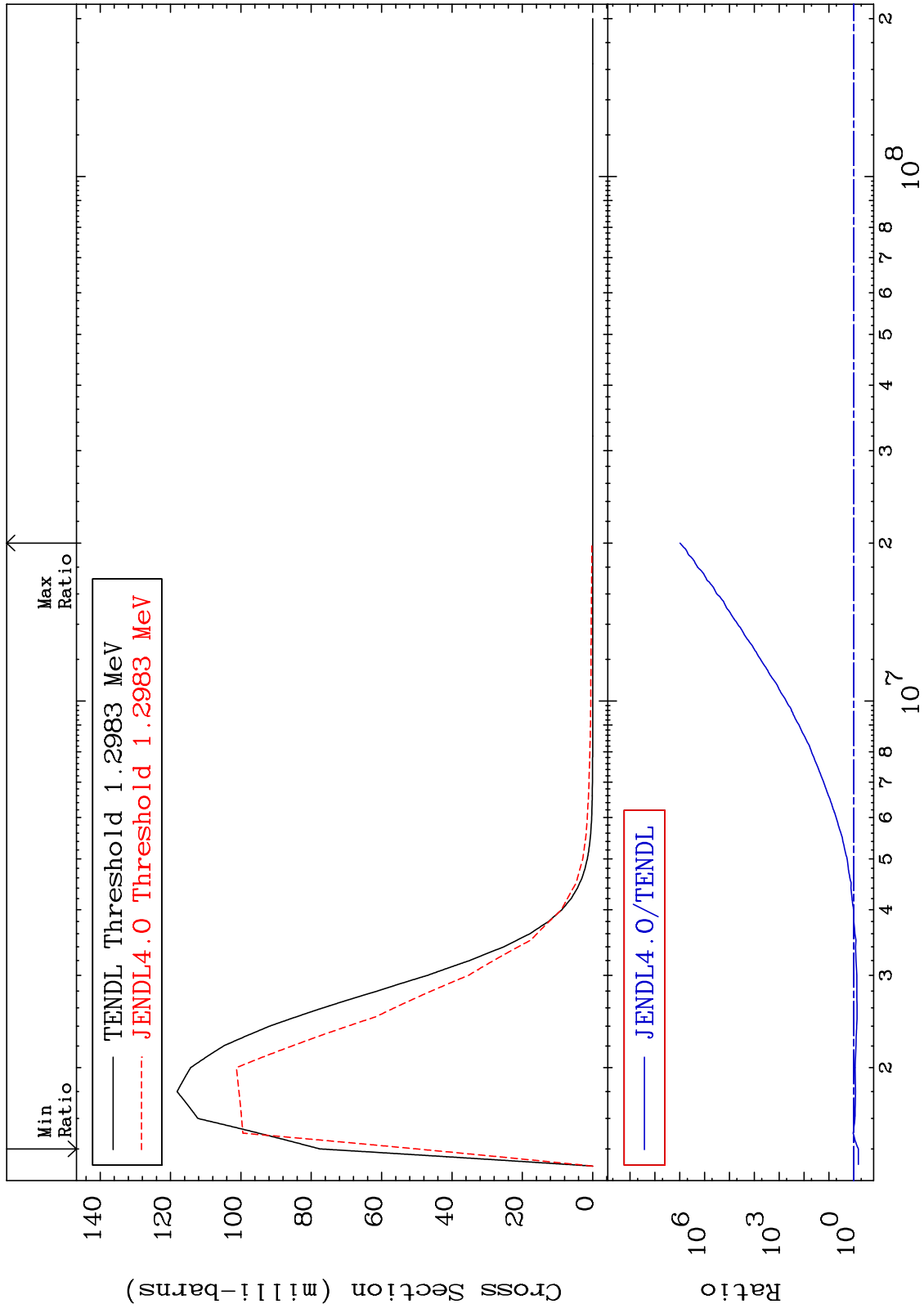
MAT 7243

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

72-Hf-180
-95.51 To 9.637 %



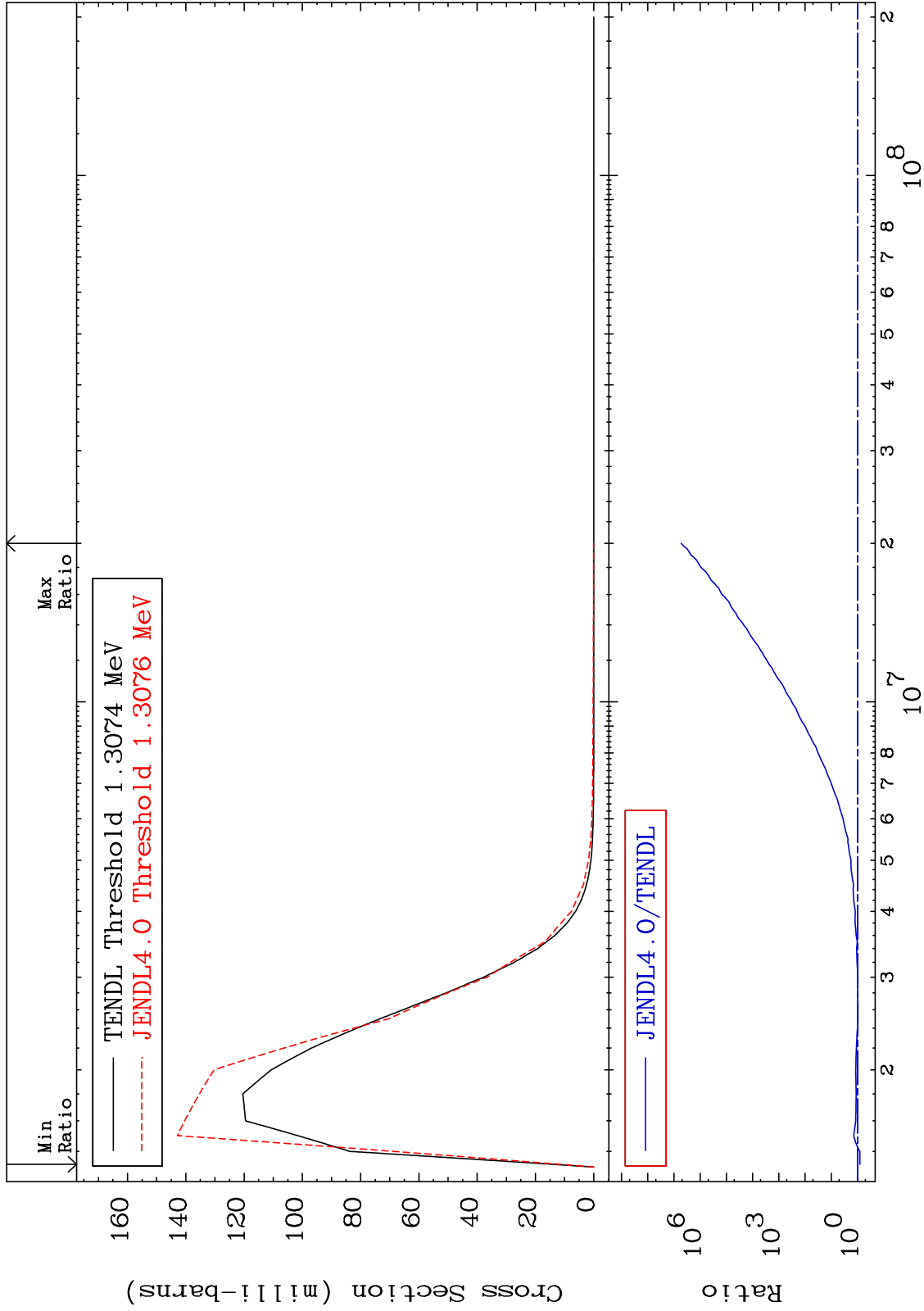
MAT 7243 MT= 63 (n,n') Level Cross Section 72-Hf-180
 -35.39 To 9999. %



MAT 7243

MT= 64 (n,n') Level
Cross Section

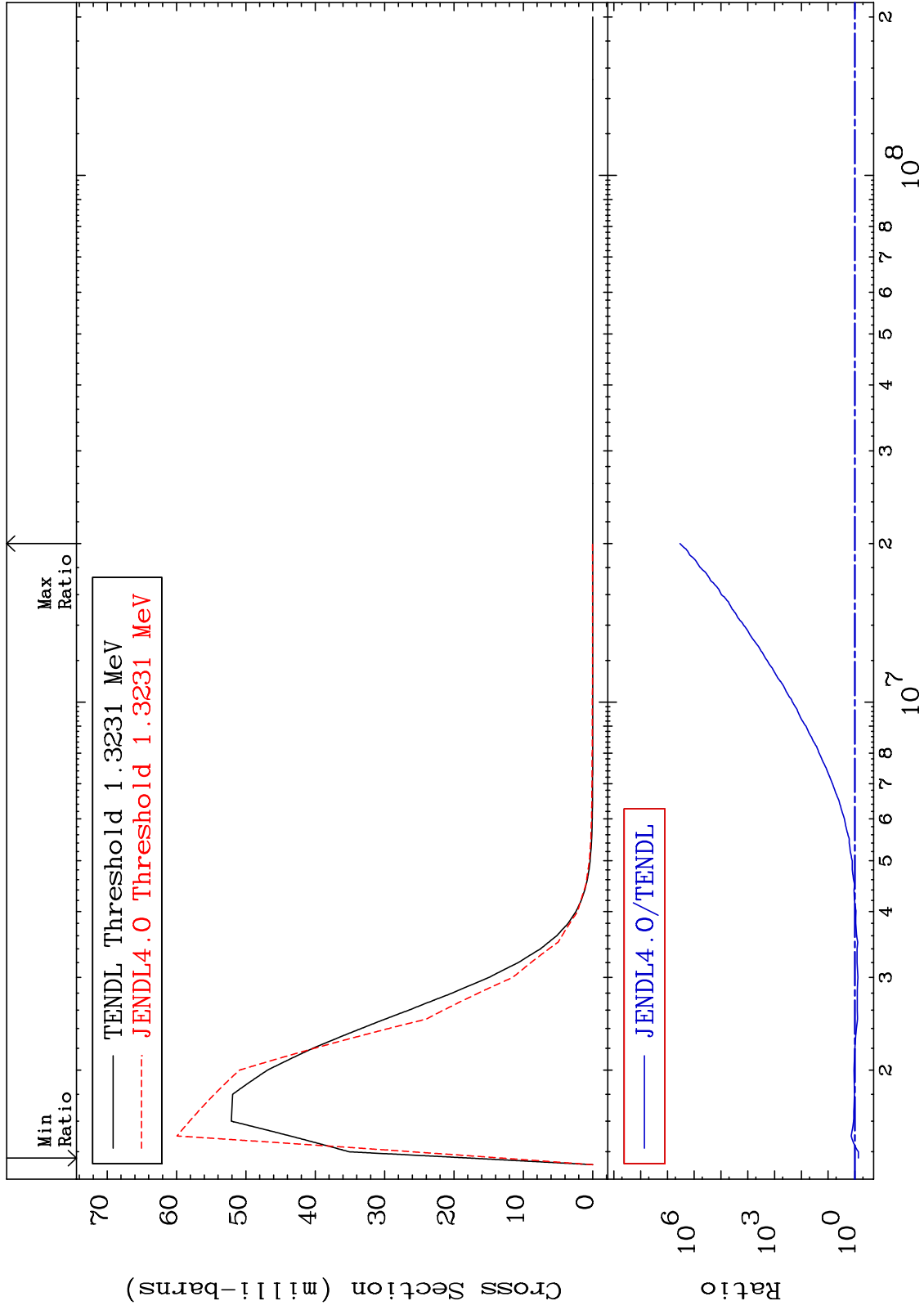
72-Hf-180
-18.94 To 9999. %



MAT 7243

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

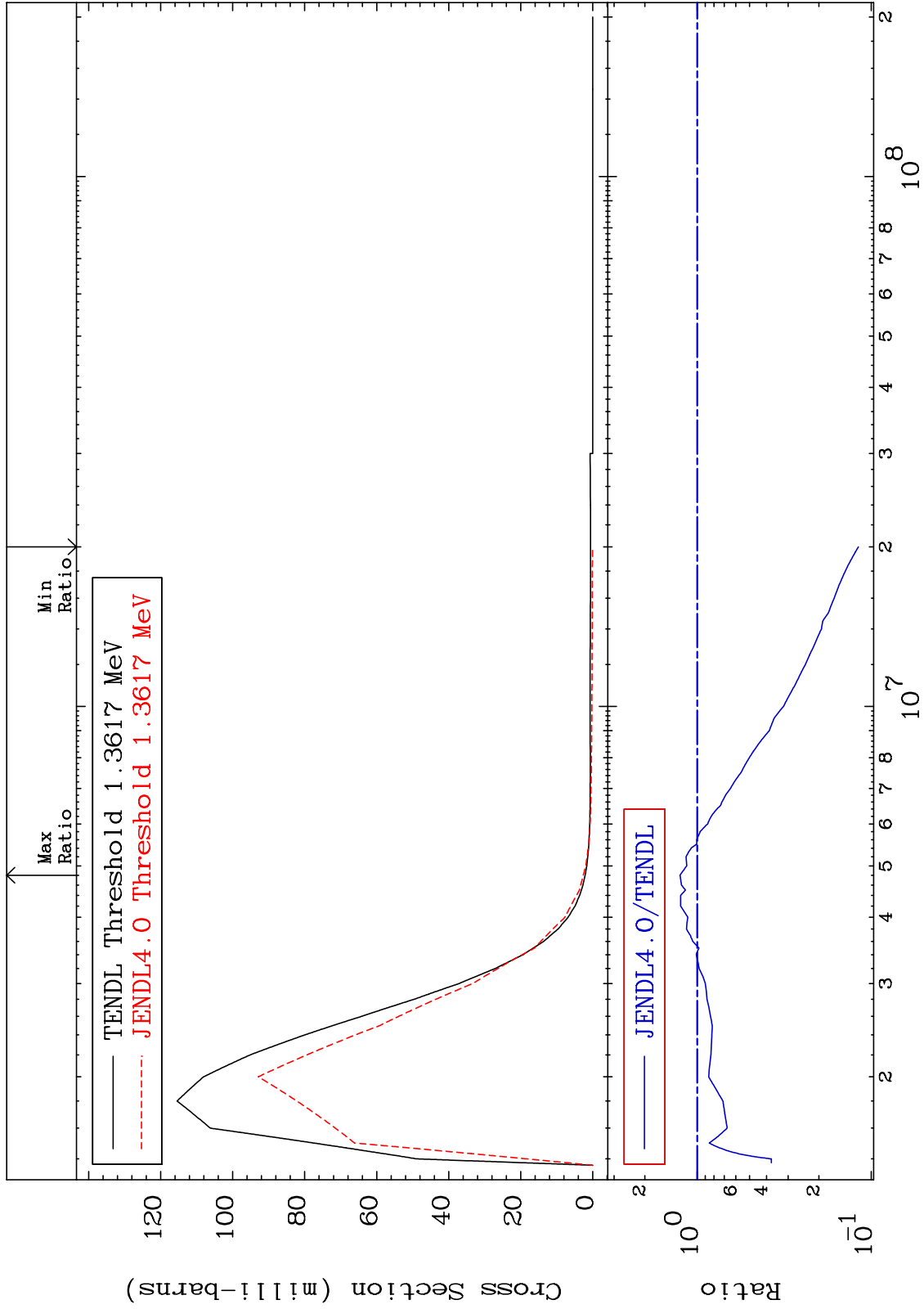
72-Hf-180
-25.99 To 9999. %



MAT 7243

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

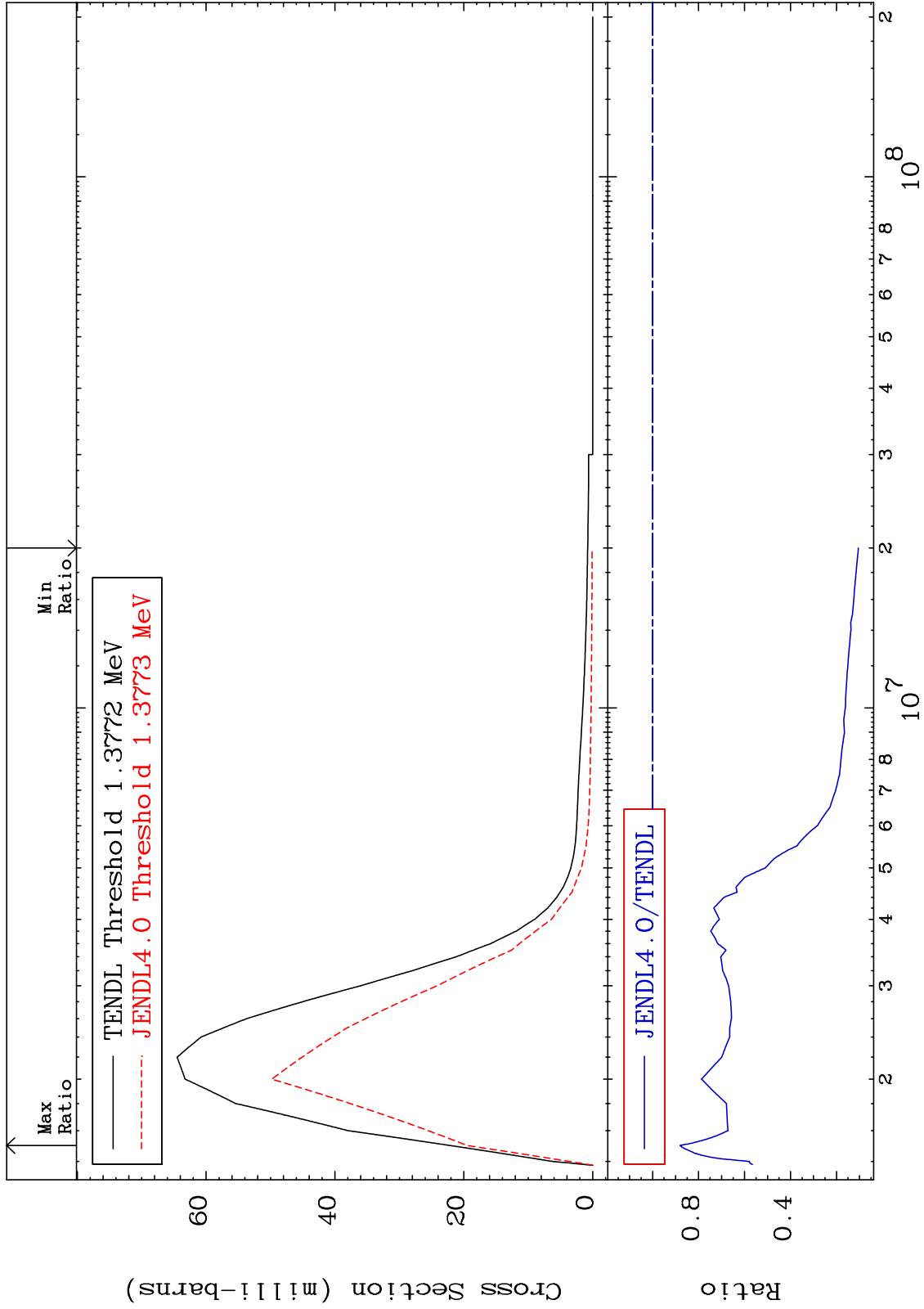
72-Hf-180
-88.15 To 25.53 %



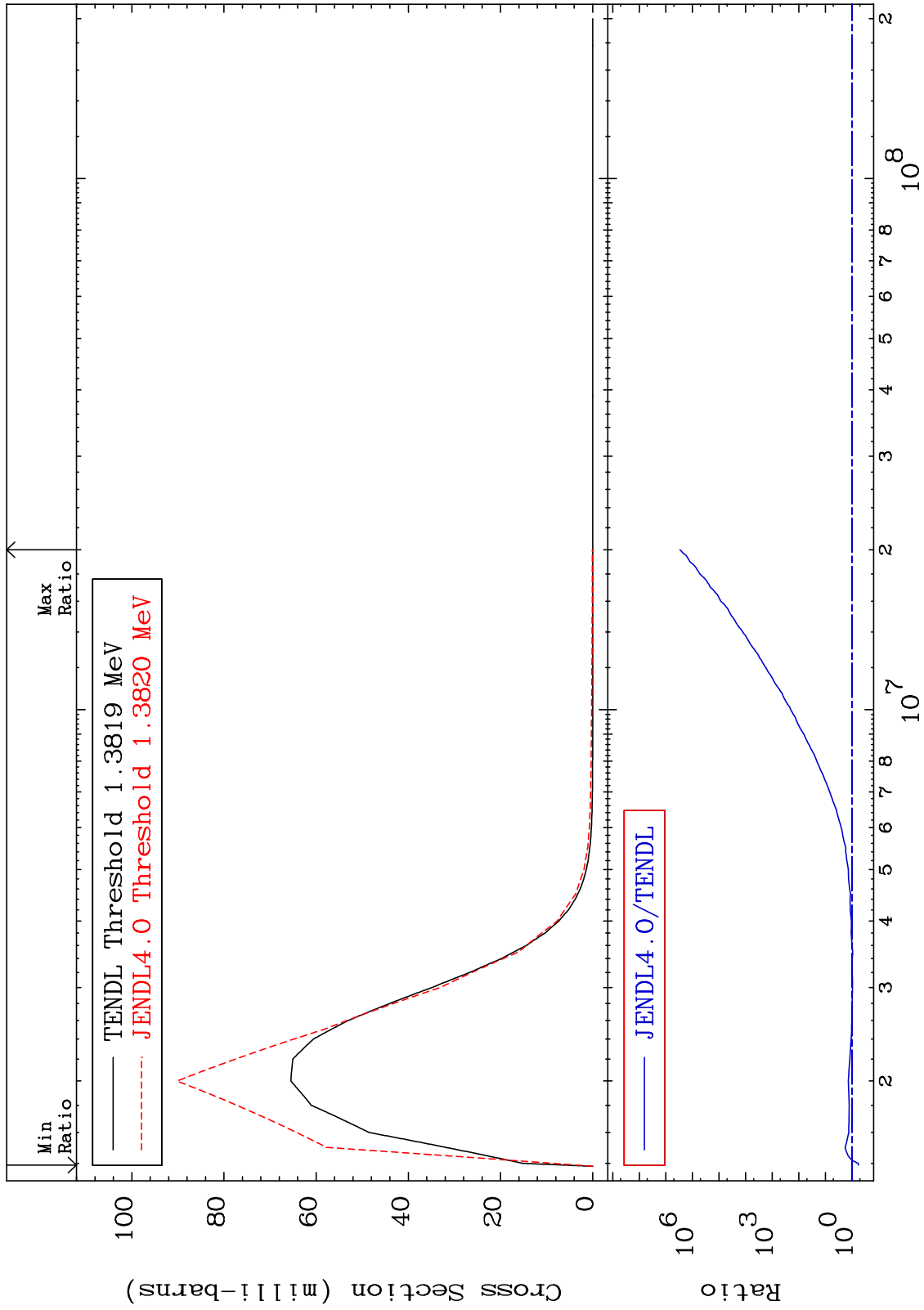
MAT 7243

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

⁷²Hf-180
-89.54 To -11.92%



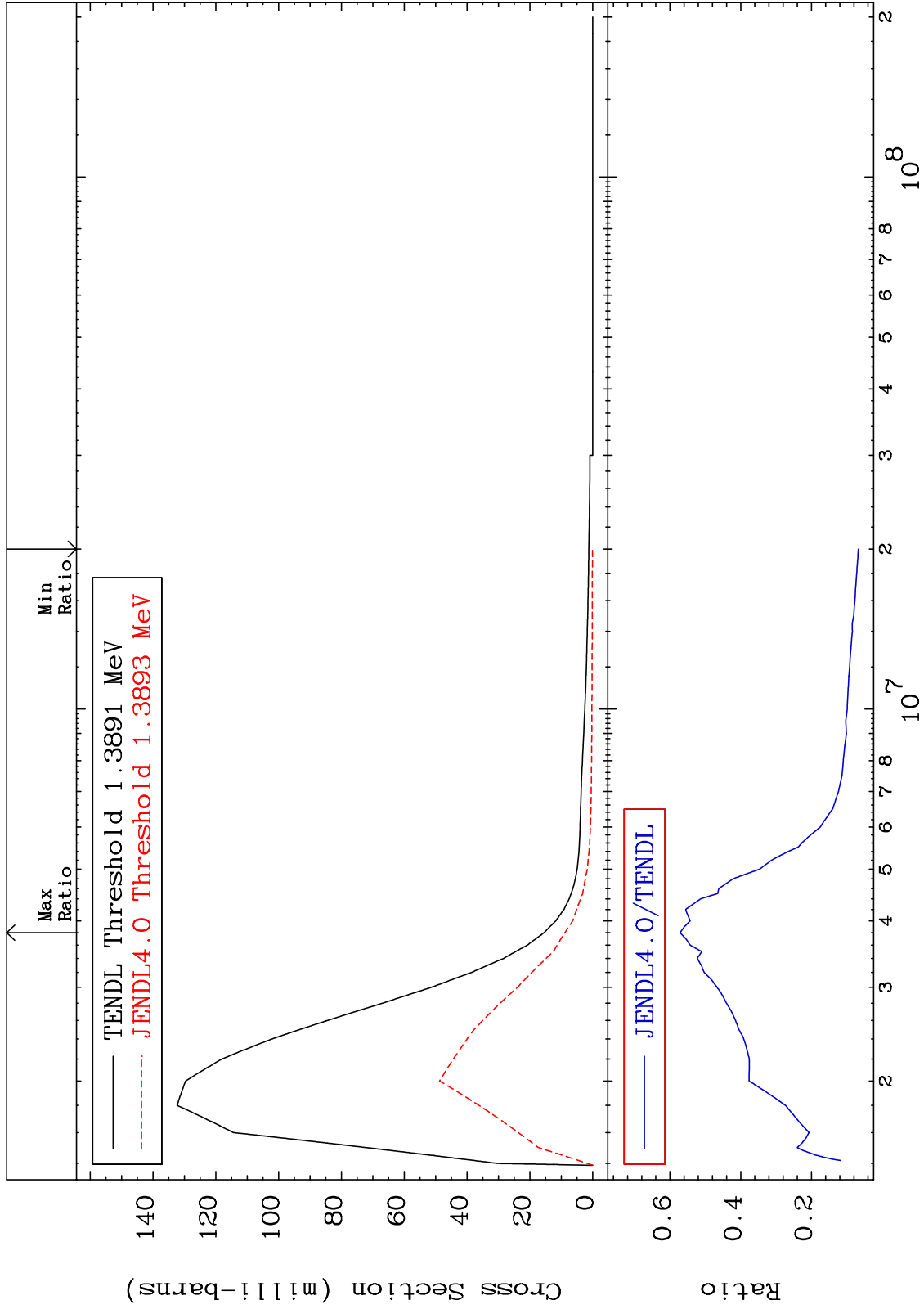
MAT 7243 MT= 68 (n,n') Level Cross Section 72-Hf-180 -42.78 To 9999. %



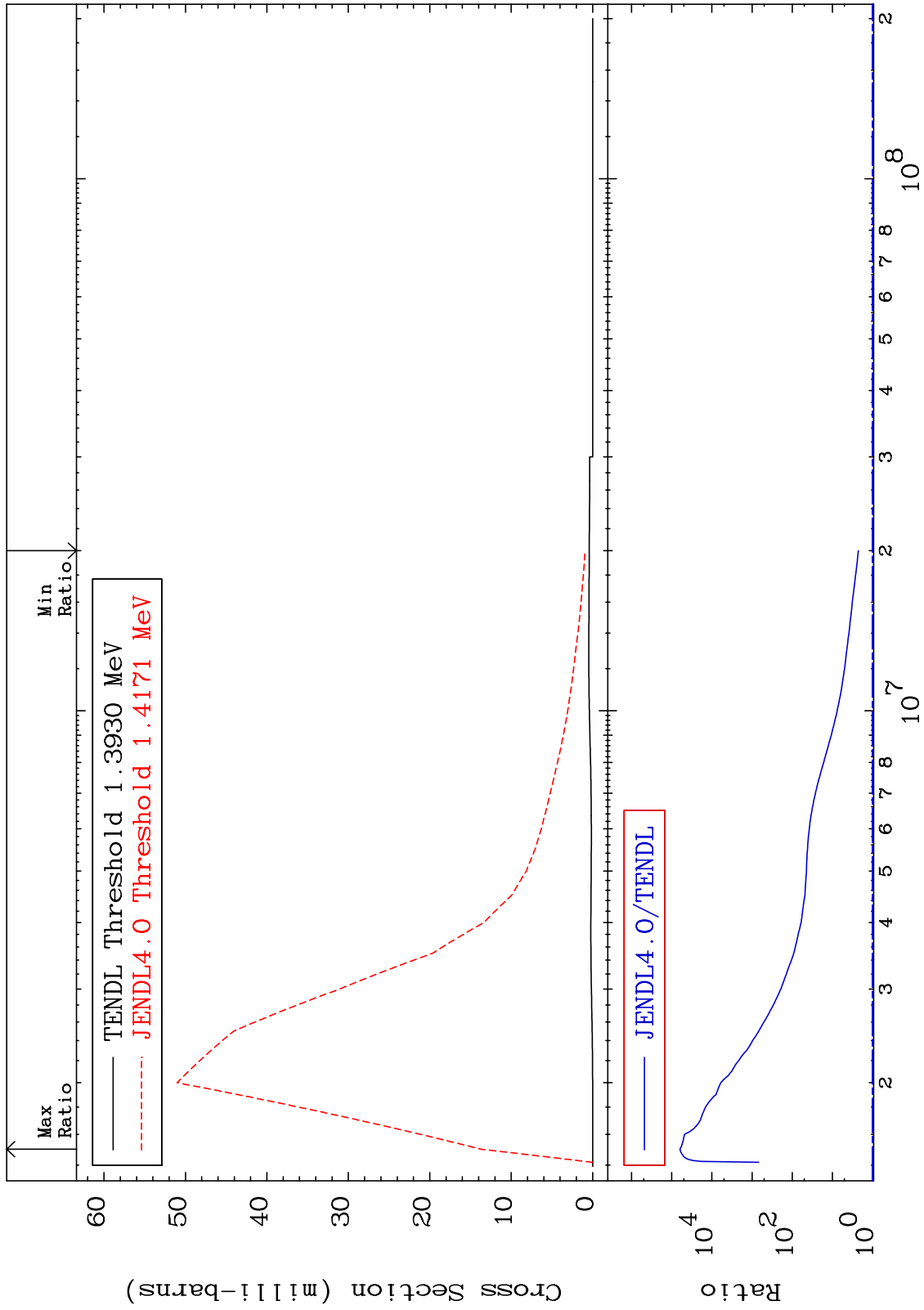
MAT 7243

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

72-Hf-180
-93.28 To -42.84%



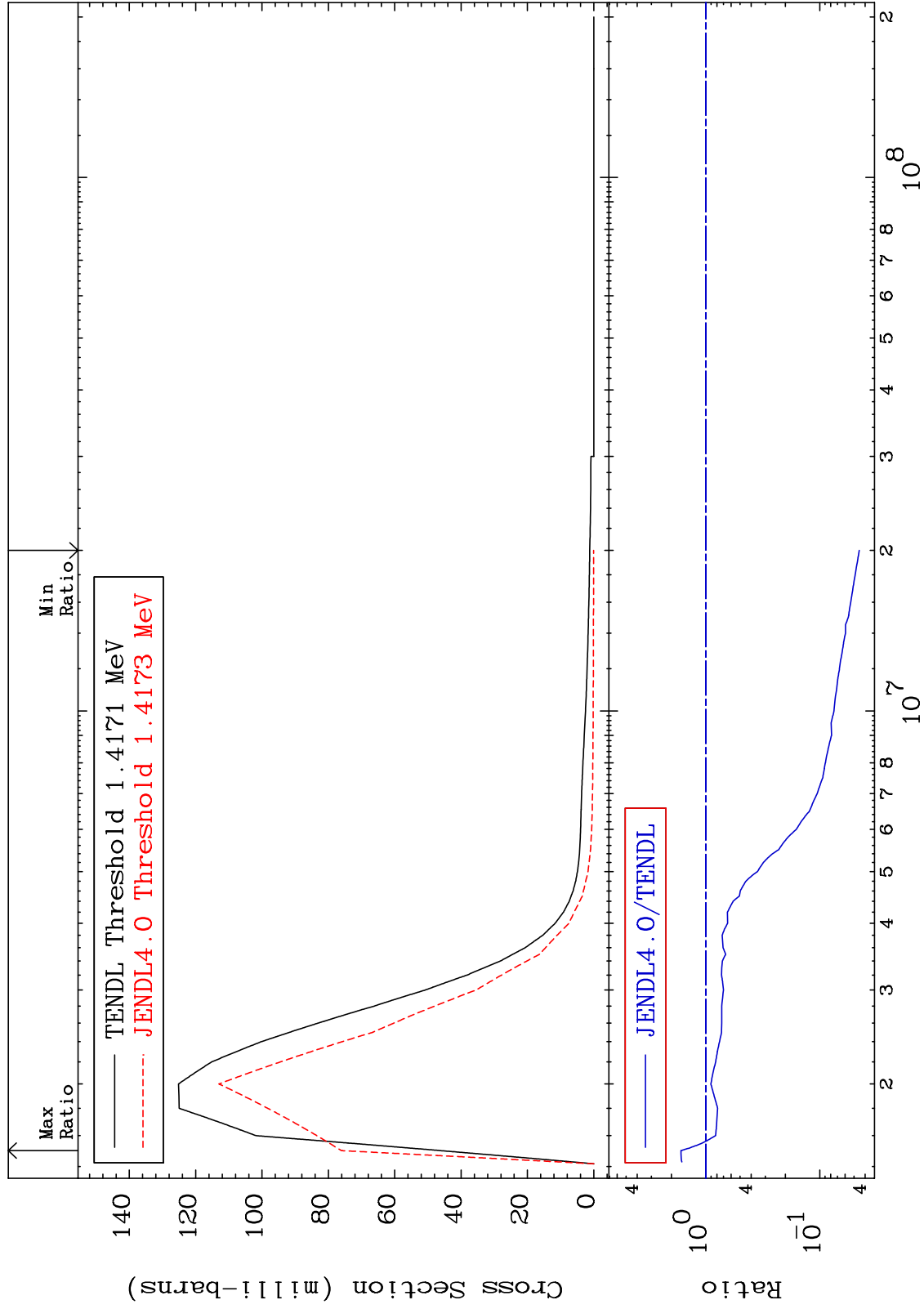
MAT 7243 MT= 70 (n,n') Level Cross Section 72-Hf-180
 124.1 To 9999. %



MAT 7243

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

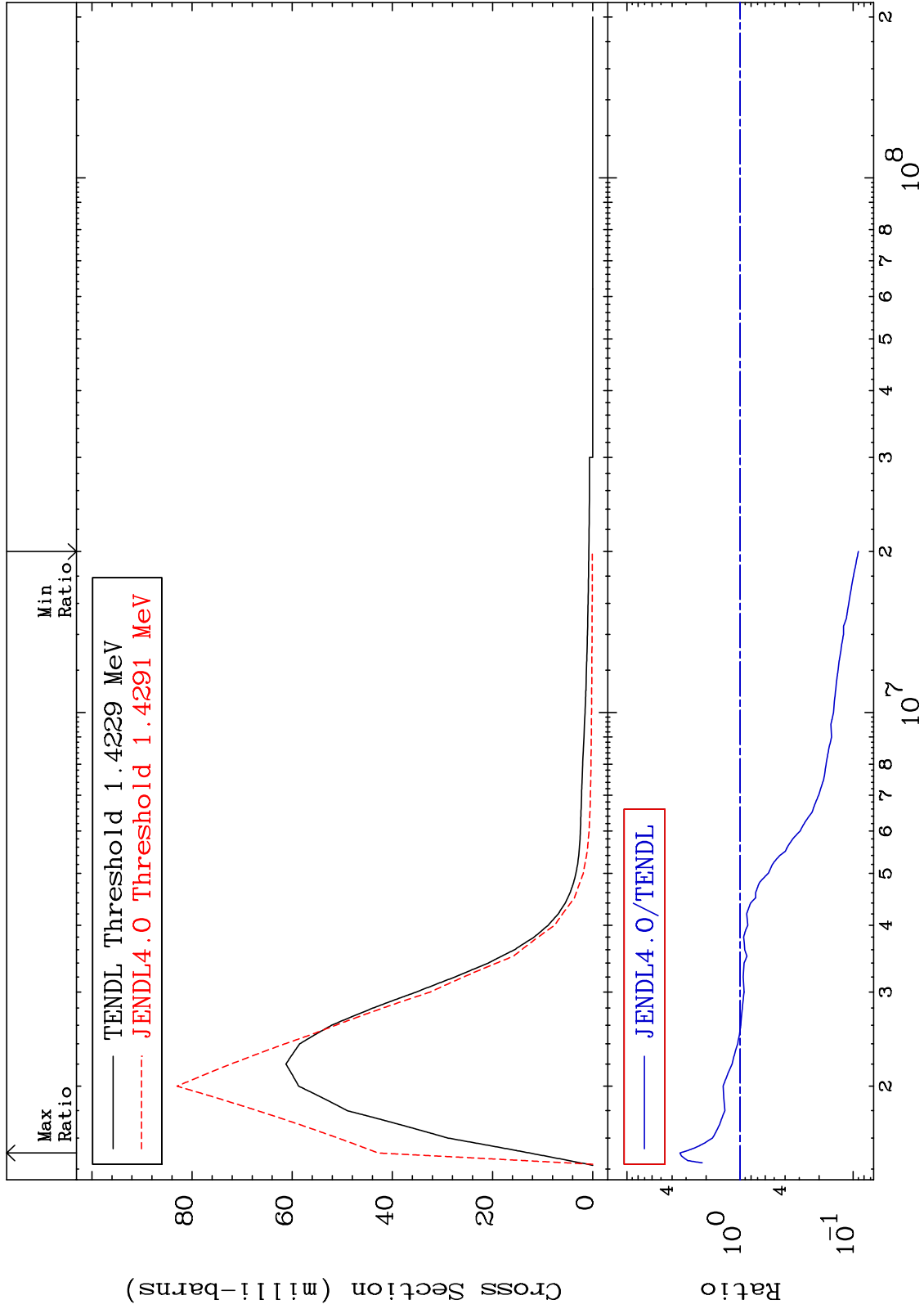
72-Hf-180
-95.50 To 64.86 %



MAT 7243

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

72-Hf-180
-91.02 To 239.8 %



30

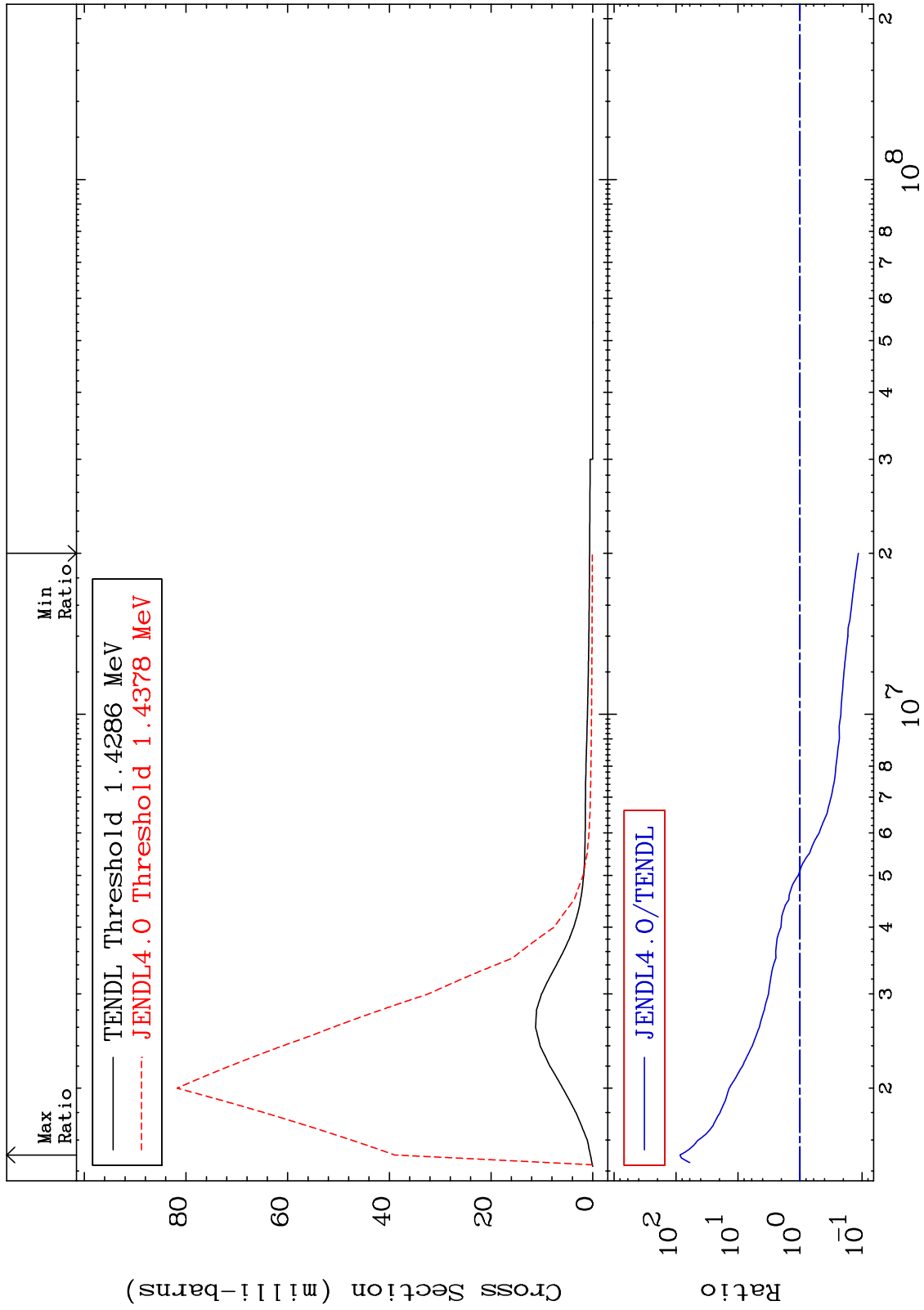
72-Hf-180

72-Hf-180

MAT 7243

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

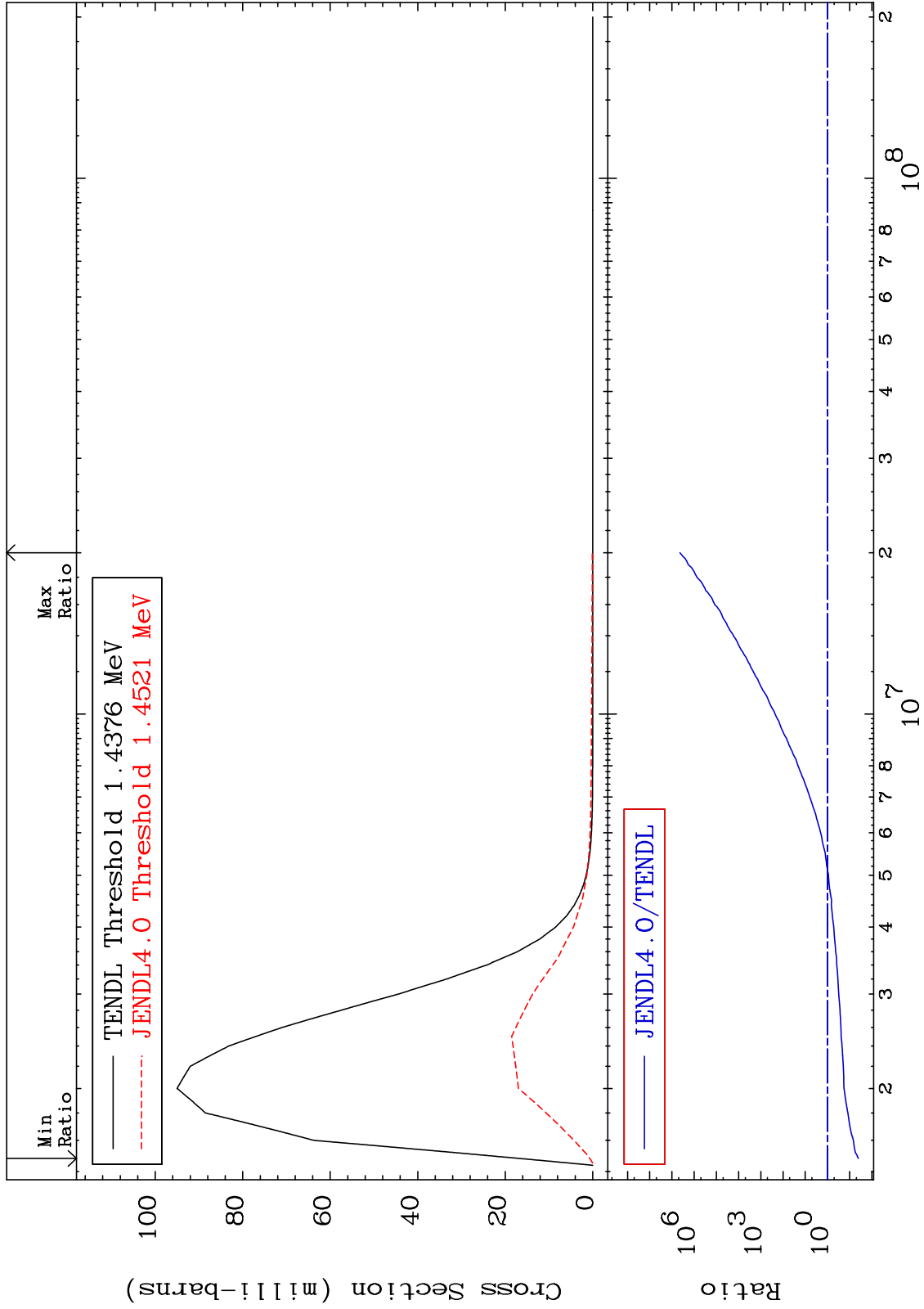
72-Hf-180
-88.58 To 8528. %



MAT 7243

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

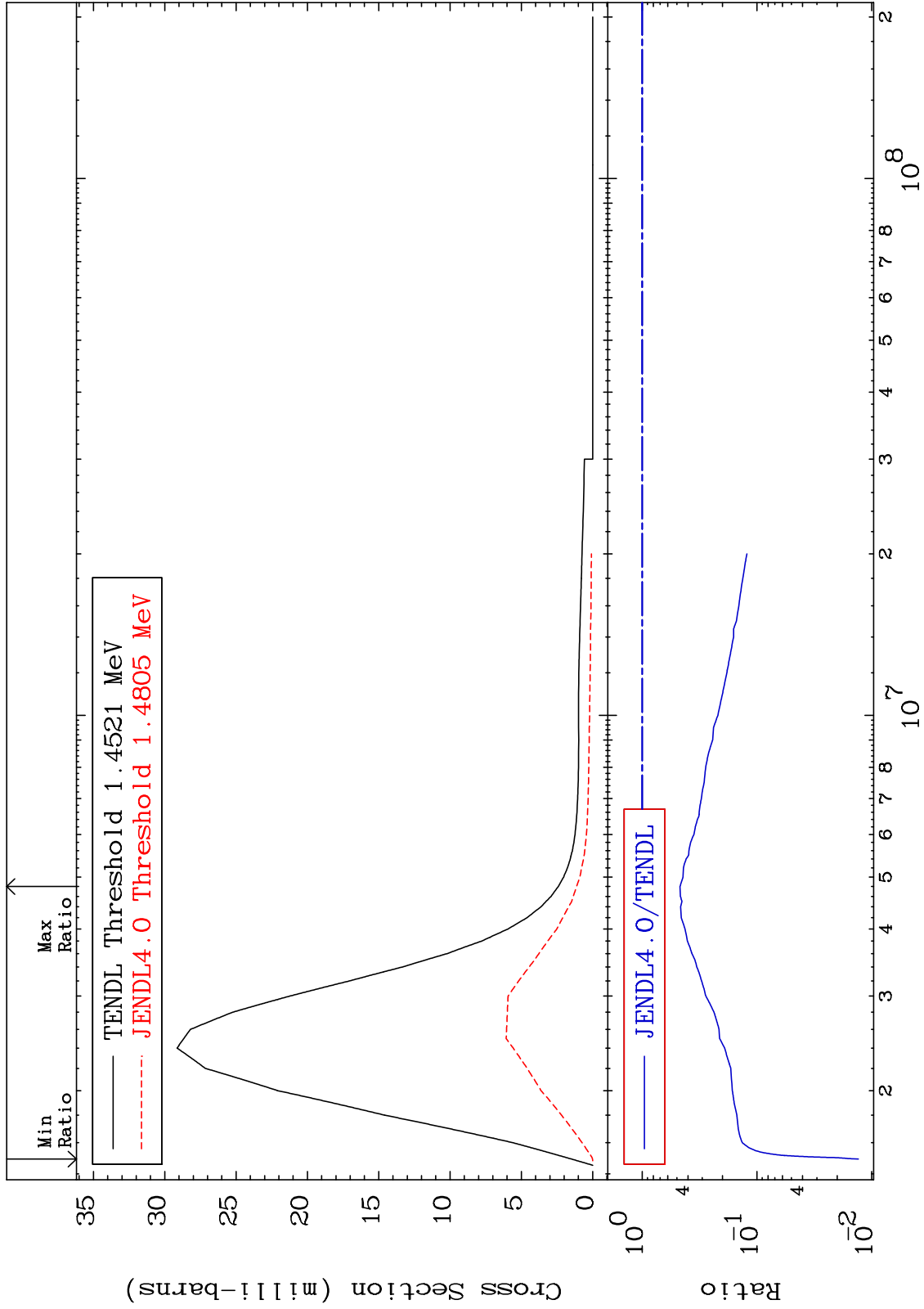
72-Hf-180
-95.97 To 9999. %



MAT 7243

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

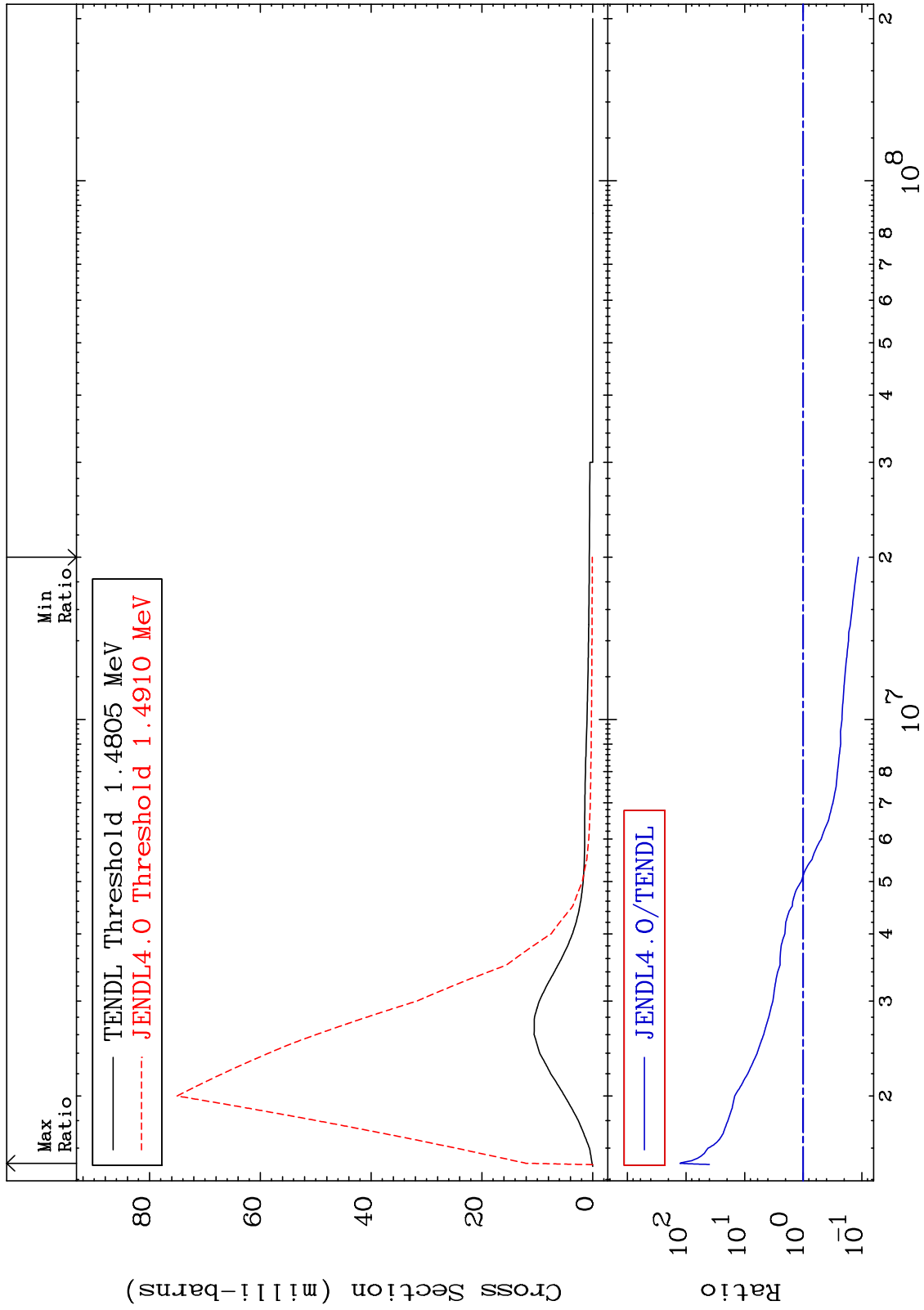
72-Hf-180
-98.70 To -53.11%



MAT 7243

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

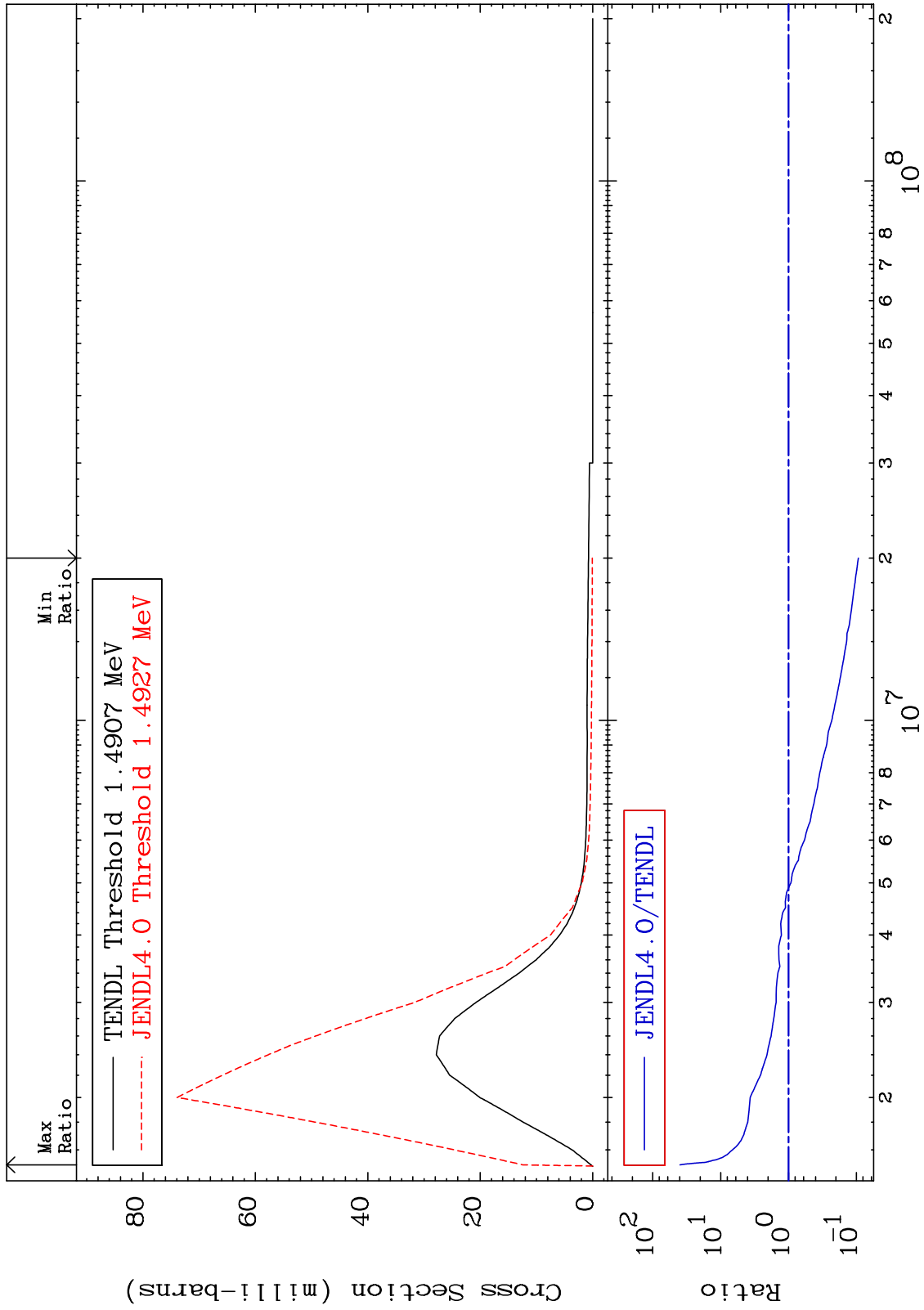
72-Hf-180
-88.58 To 9999. %



MAT 7243

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

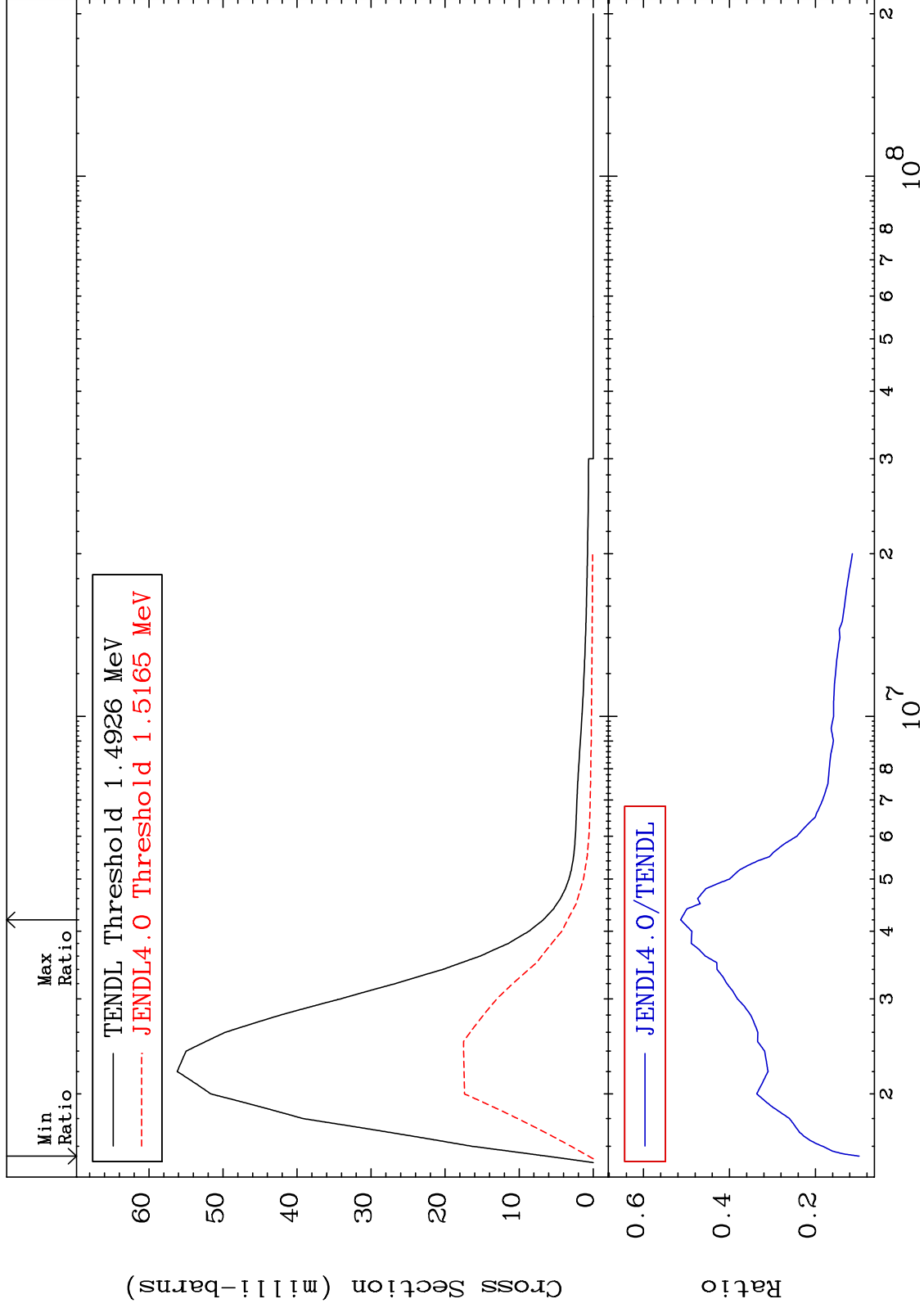
72-Hf-180
-90.65 To 3865. %



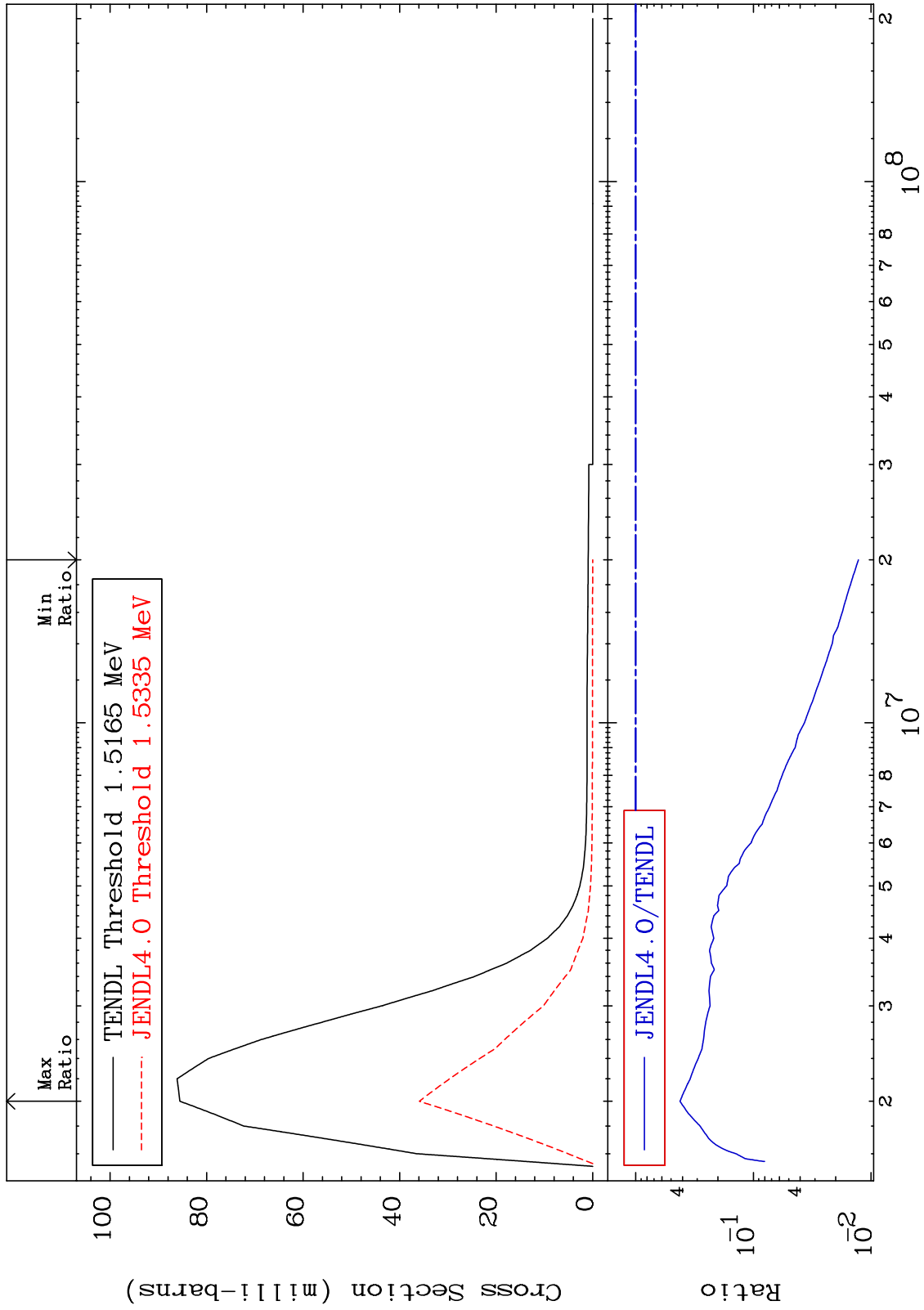
MAT 7243

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

72-Hf-180
-90.17 To -48.63%



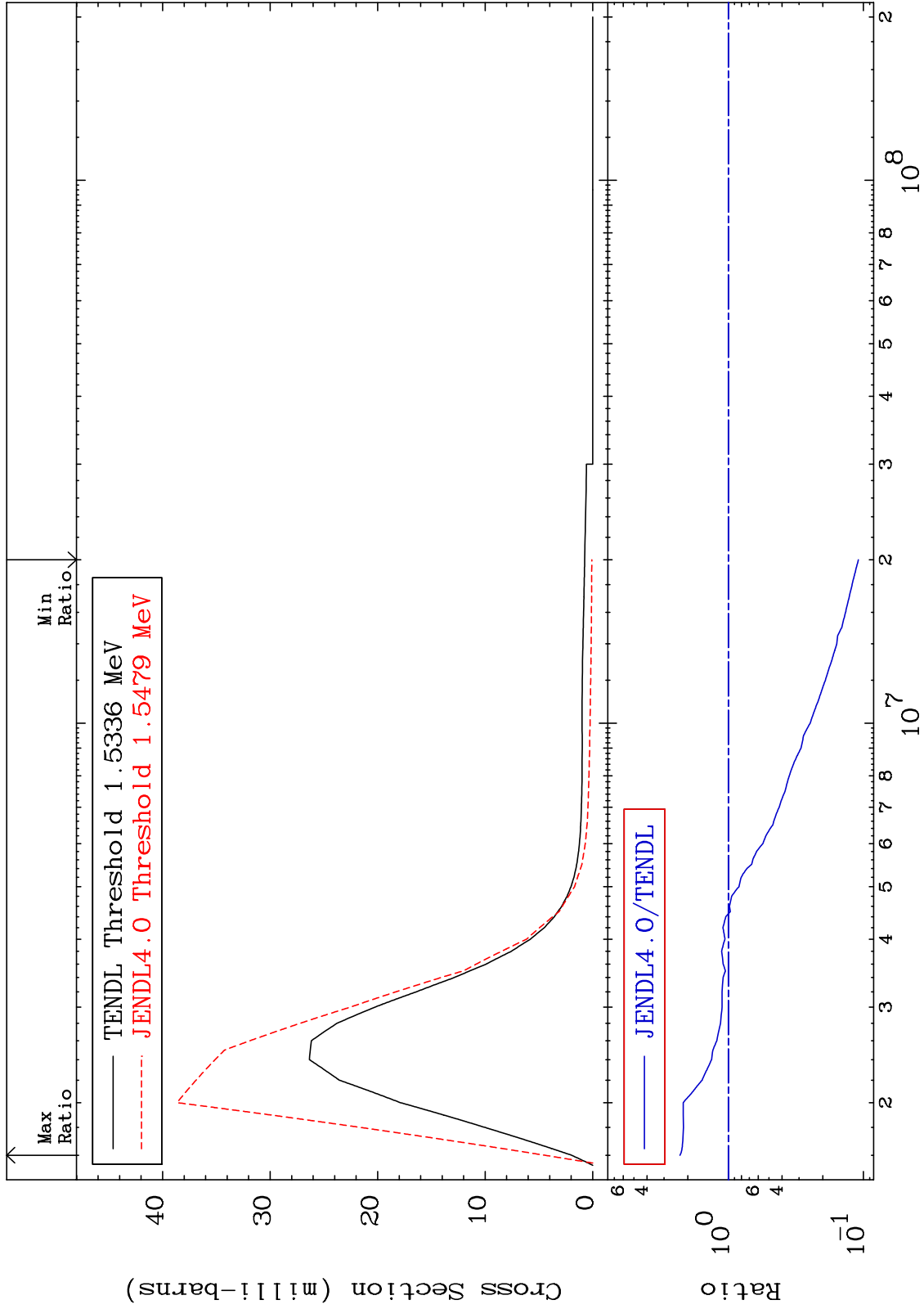
MAT 7243 MT= 79 (n,n') Level
 Cross Section 72-Hf-180
 -98.72 To -58.00%



MAT 7243

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

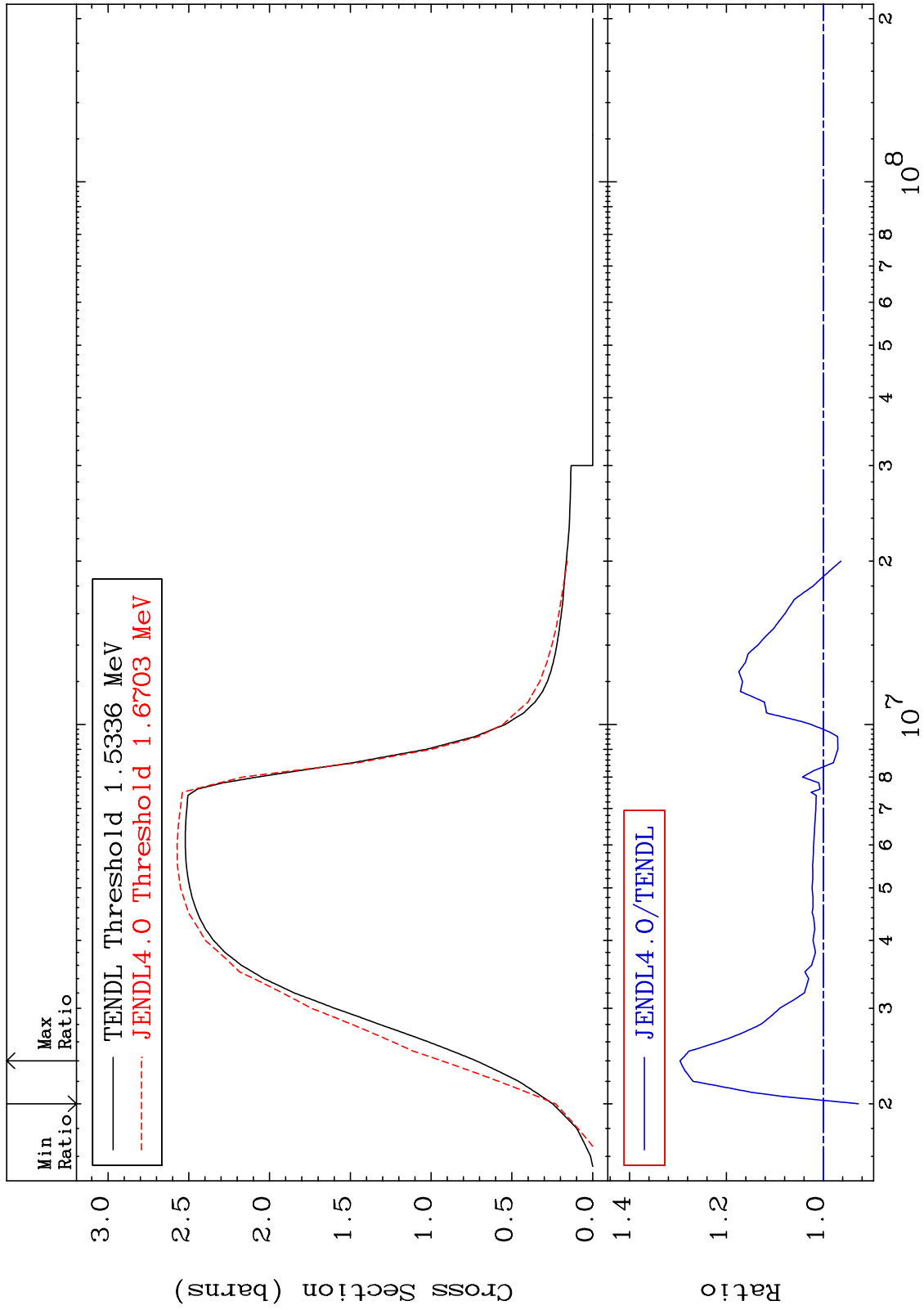
72-Hf-180
-89.11 To 128.1 %



MAT 7243

(n, n') Continuum
Cross Section

72-Hf-180
-7.238 To 29.58 %



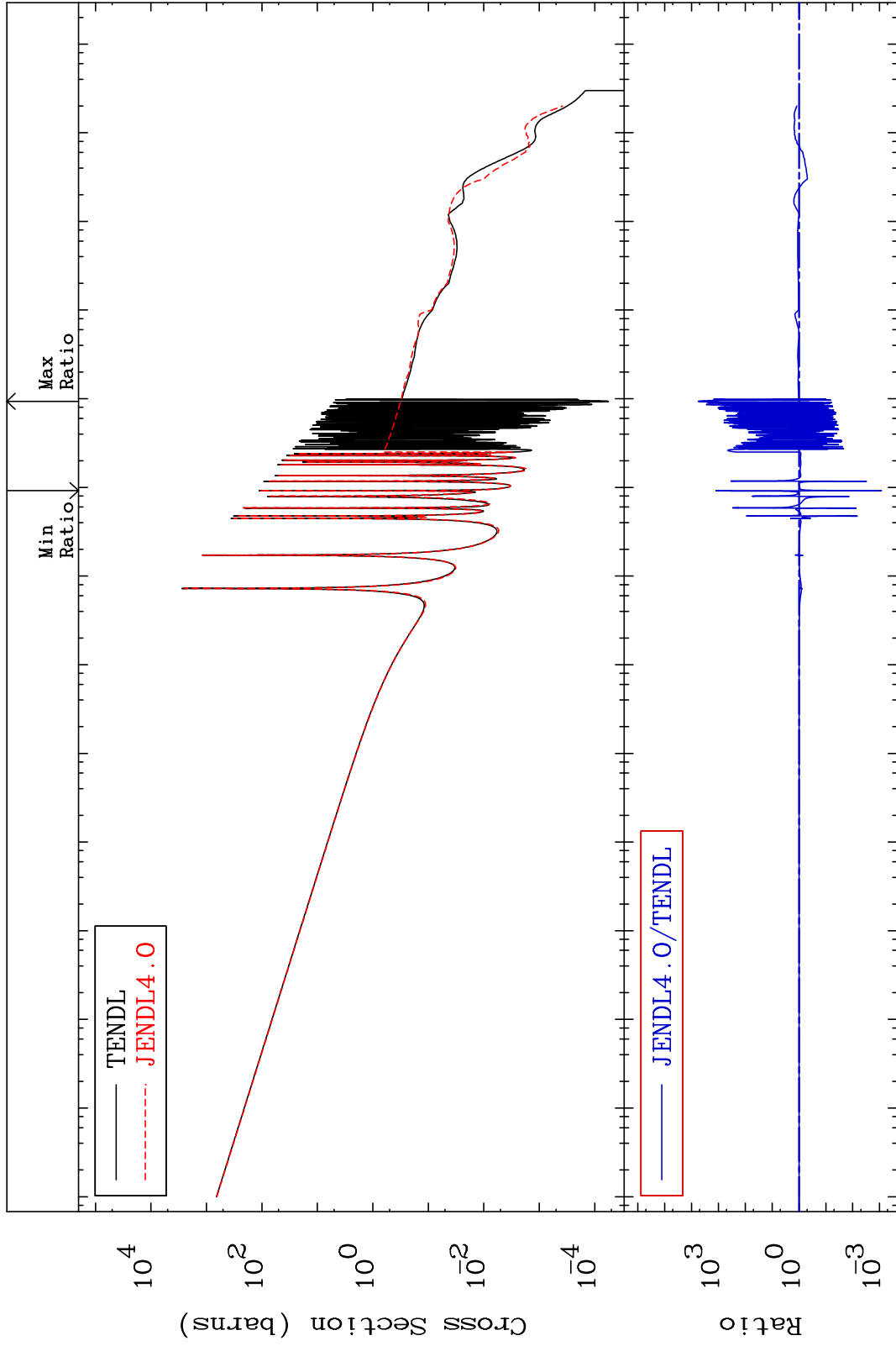
MAT 7243

(n, γ)

72-Hf-180

Cross Section

-99.92 To 9999. %



40

Incident Energy (eV)

72-Hf-180

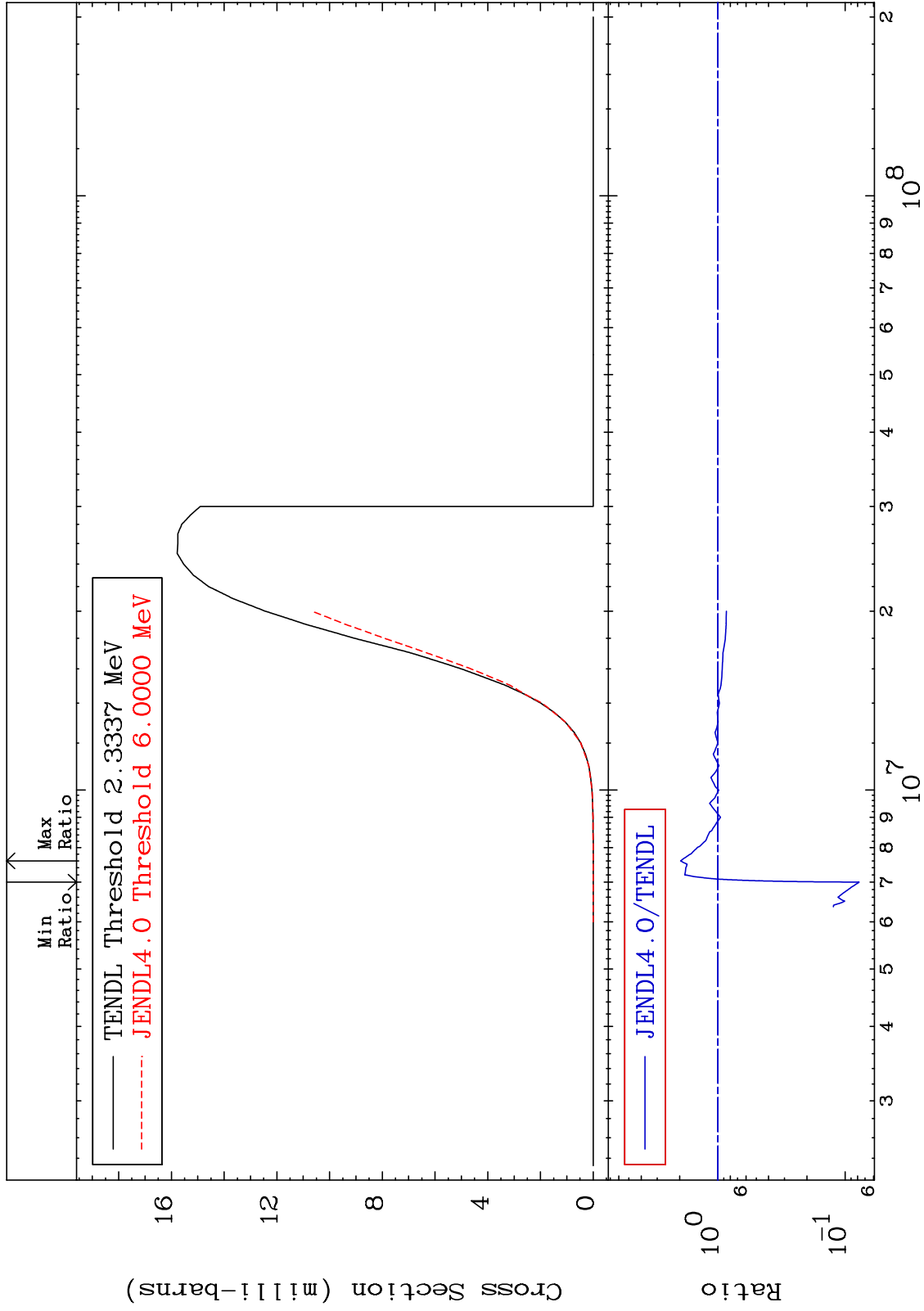
MAT 7243

(n, p)

72-Hf-180

Cross Section

-92.23 To 96.24 %



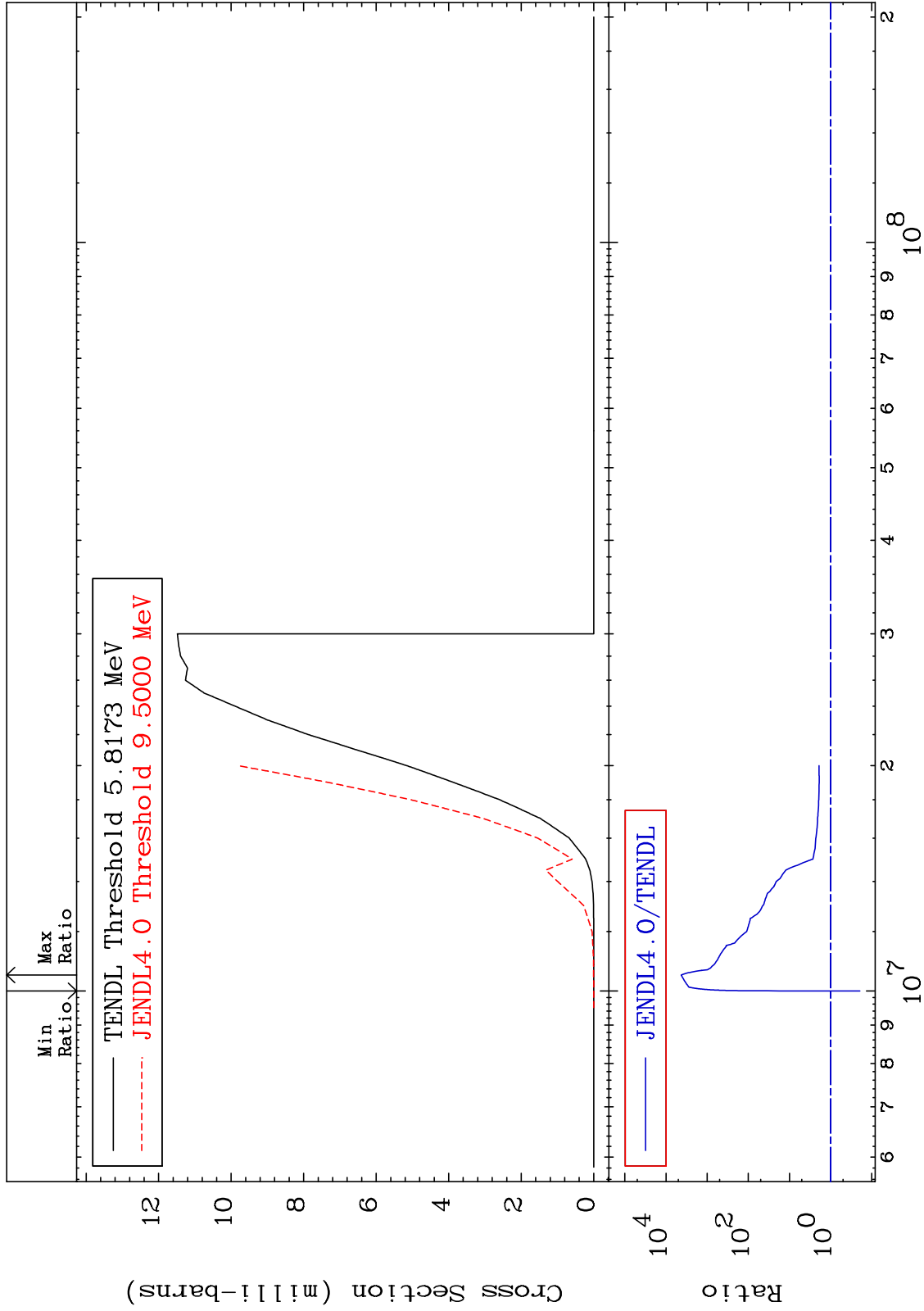
MAT 7243

(n,d)

72-Hf-180

Cross Section

-80.64 To 9999. %



42

Incident Energy (eV)

72-Hf-180

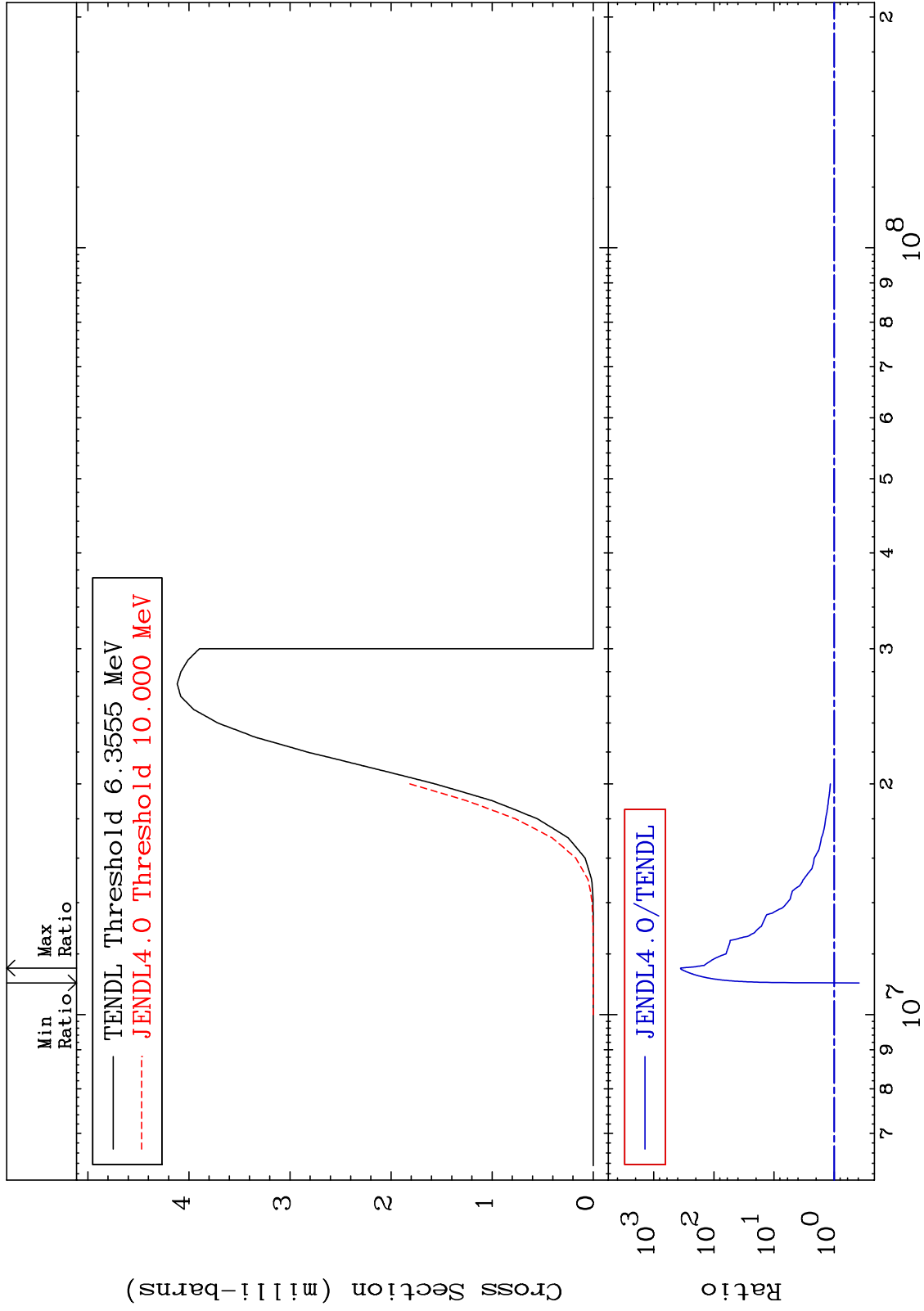
MAT 7243

(n, t)

72-Hf-180

Cross Section

-61.47 To 9999. %



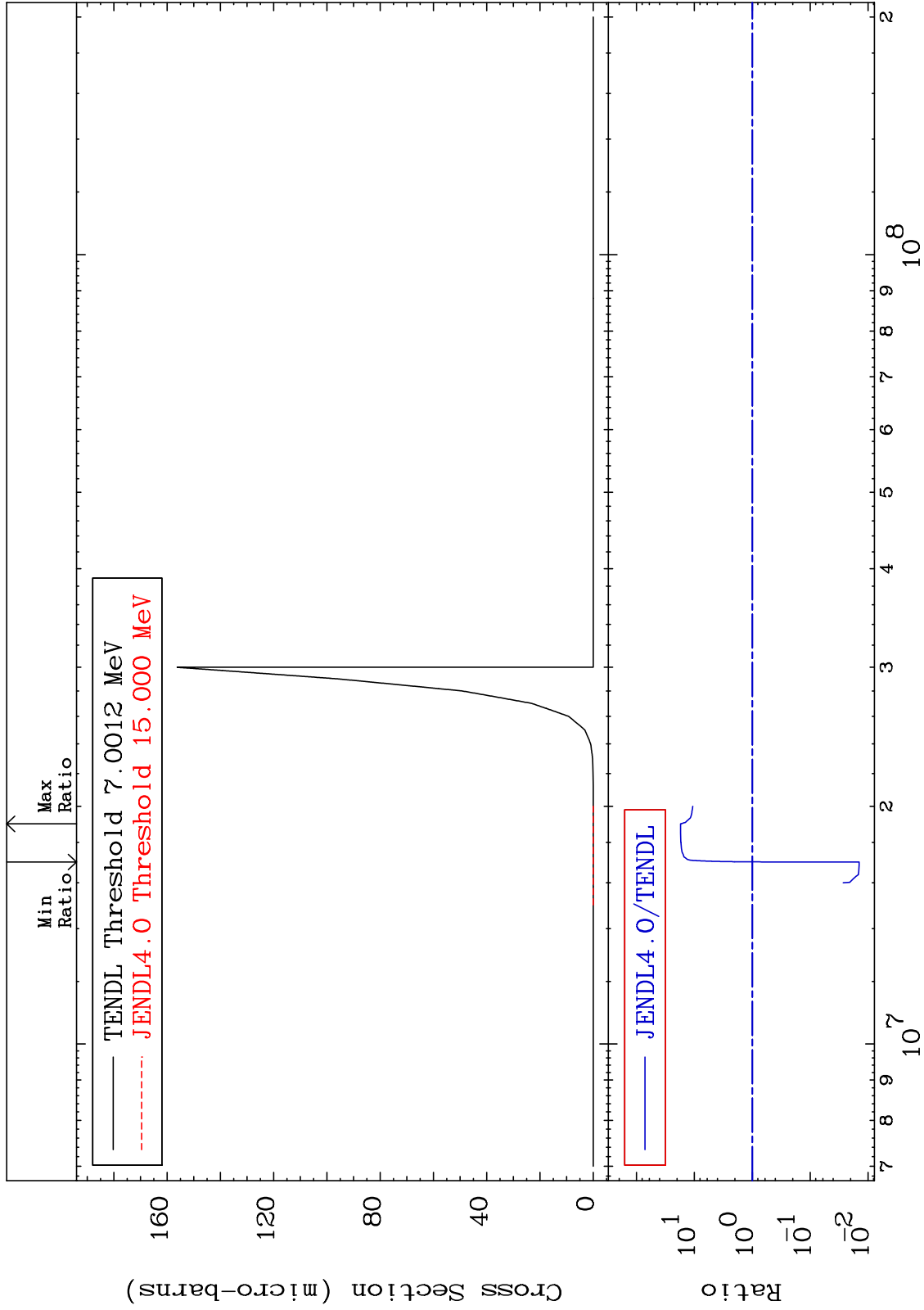
MAT 7243

(n, He-3)

72-Hf-180

Cross Section

-98.58 To 1631. %



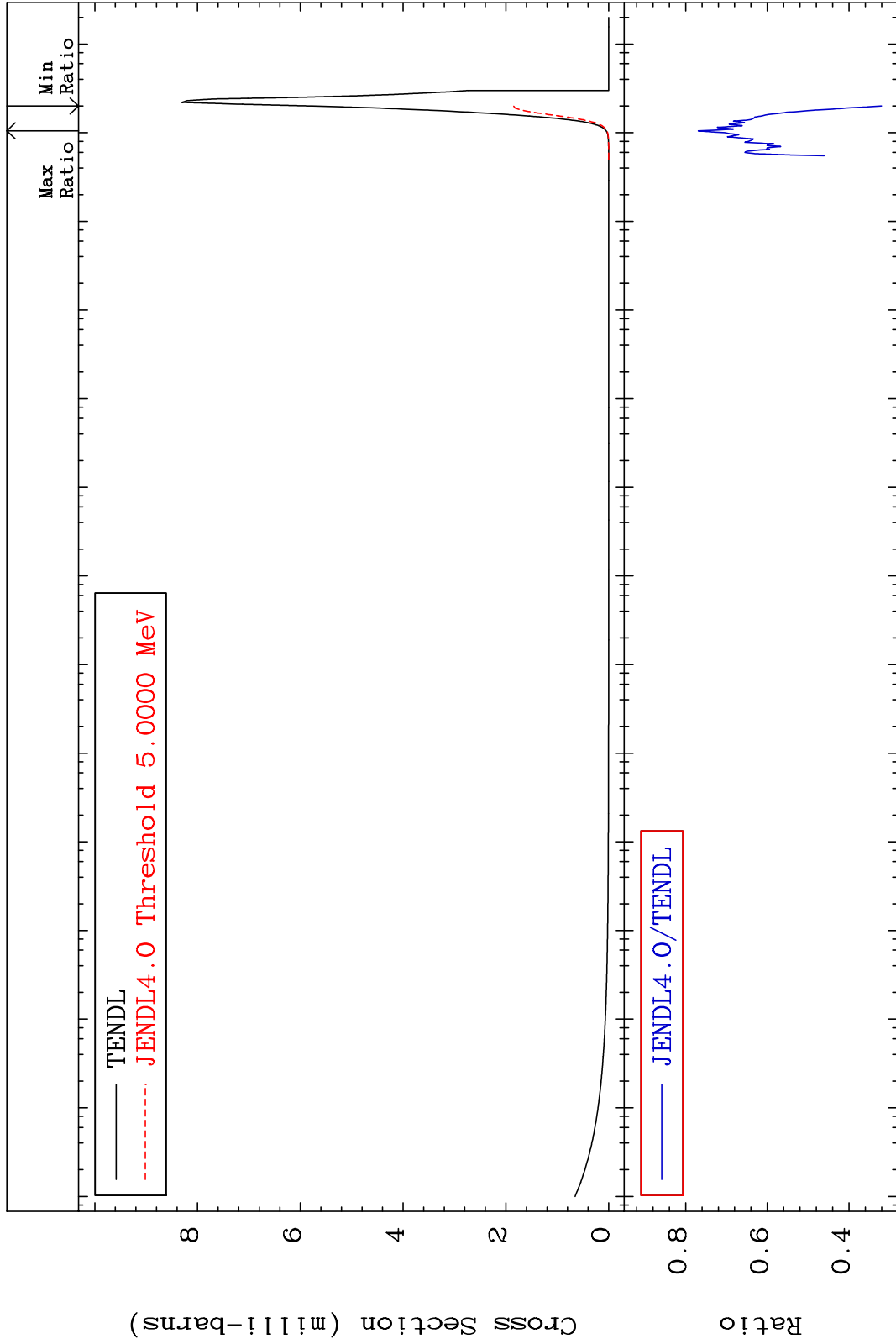
MAT 7243

(n, α)

72-Hf-180

Cross Section

-67.95 To -23.11%



45

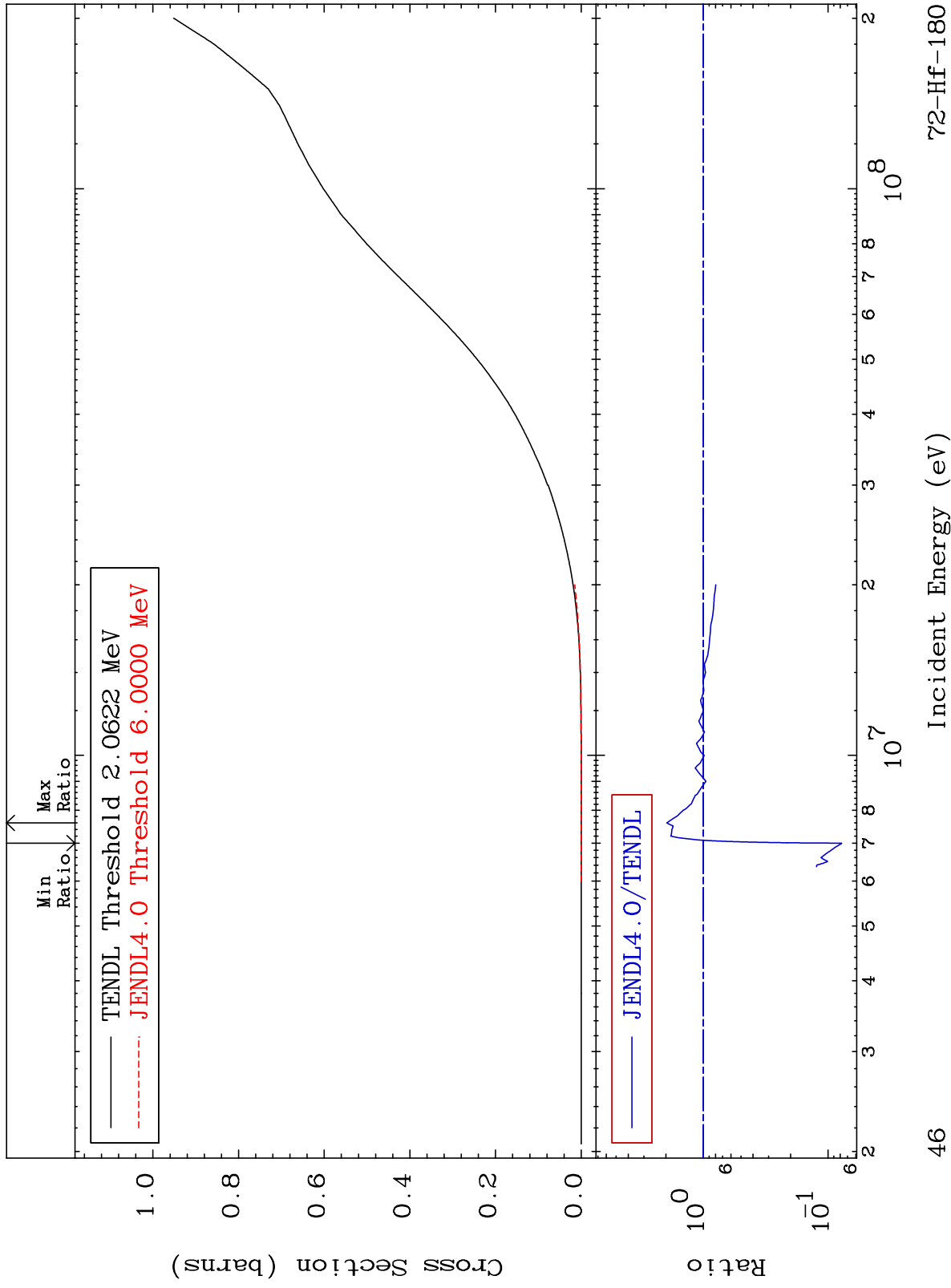
Incident Energy (eV)

72-Hf-180

MAT 7243

Hydrogen Production
Cross Section

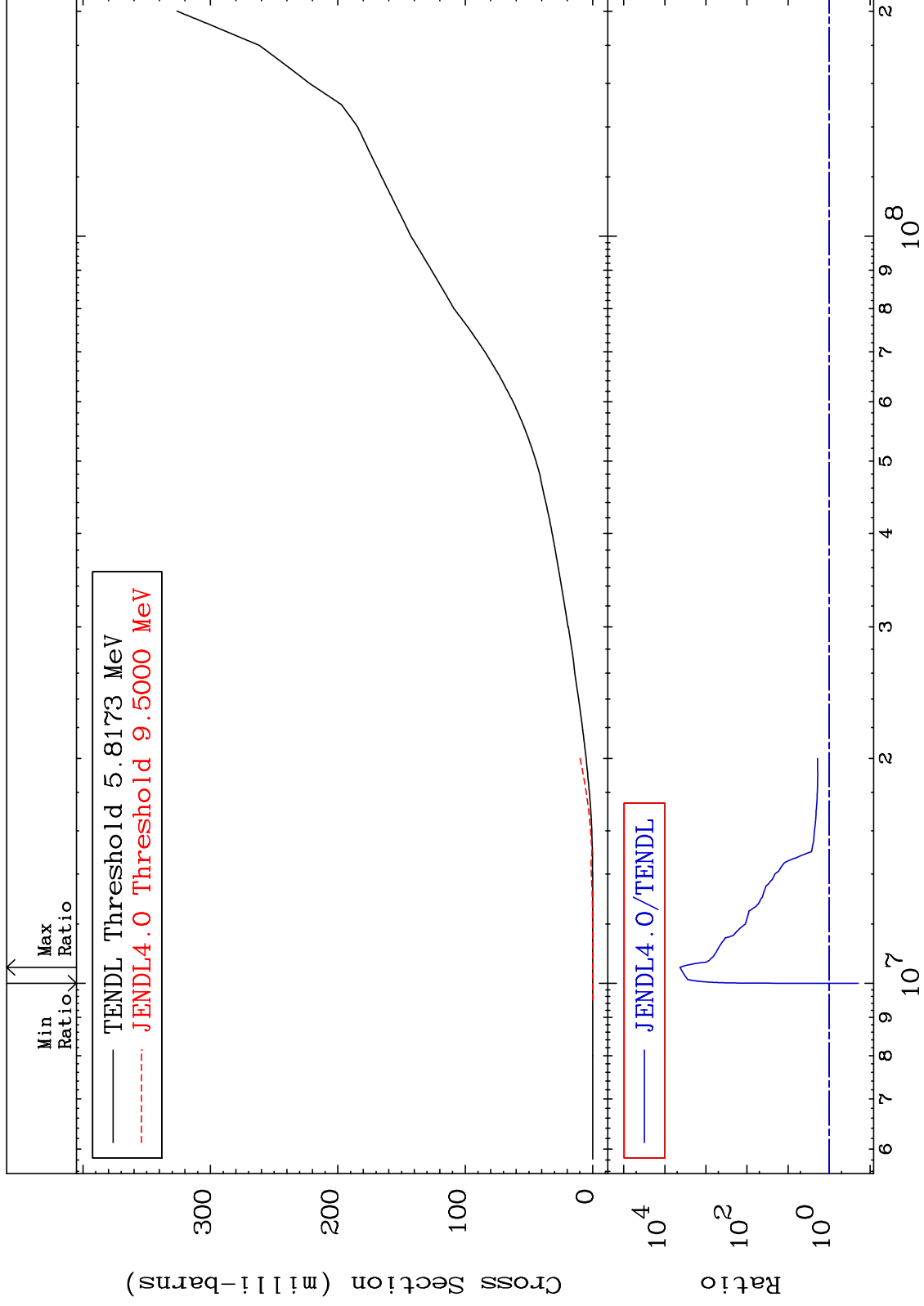
72-Hf-180
-92.23 To 96.24 %



MAT 7243

Deuterium Production
Cross Section

⁷²Hf-180
-80.64 To 9999. %



47

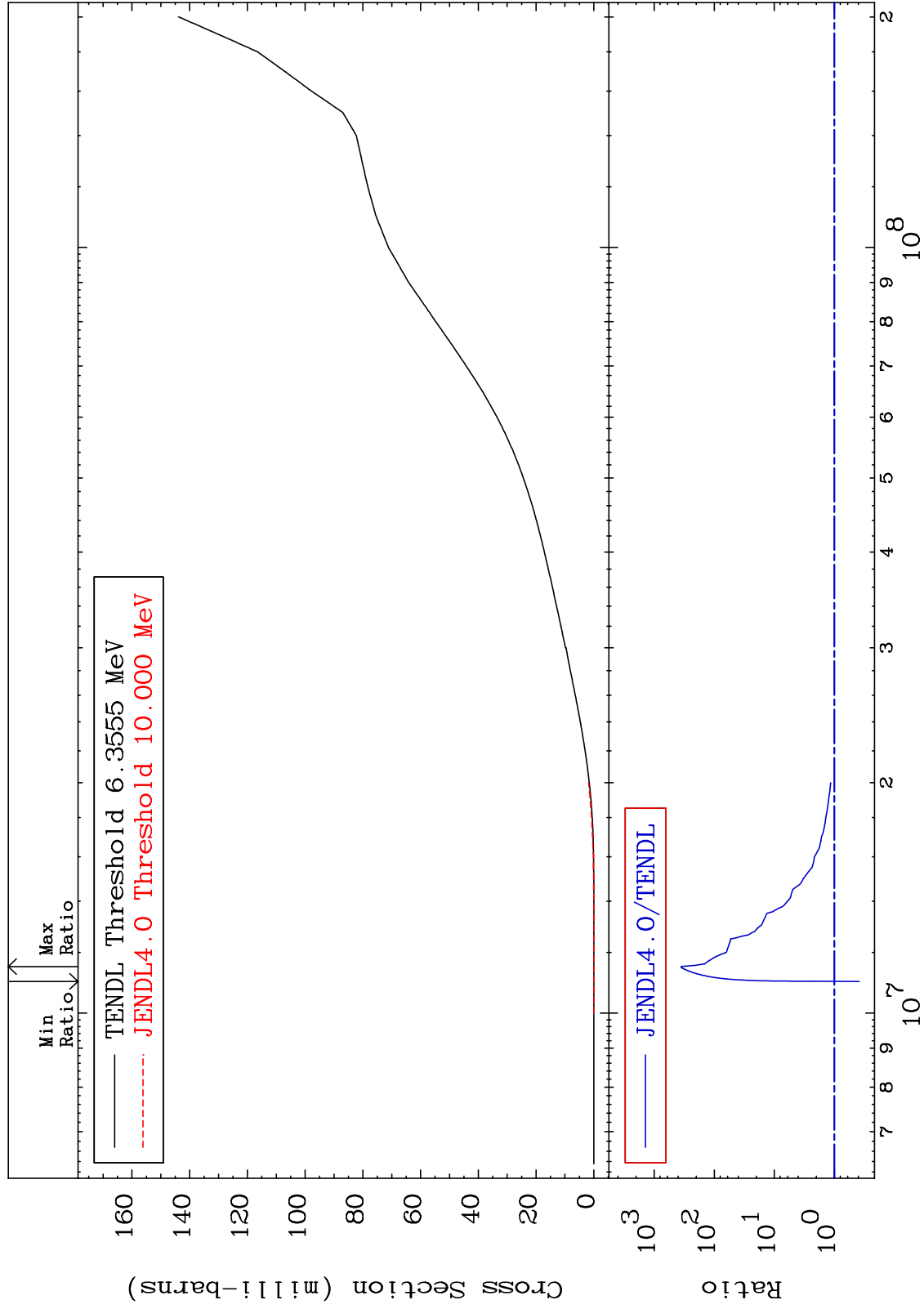
Incident Energy (eV)

⁷²Hf-180

MAT 7243

Tritium Production
Cross Section

⁷²Hf-180
-61.47 To 9999. %



48

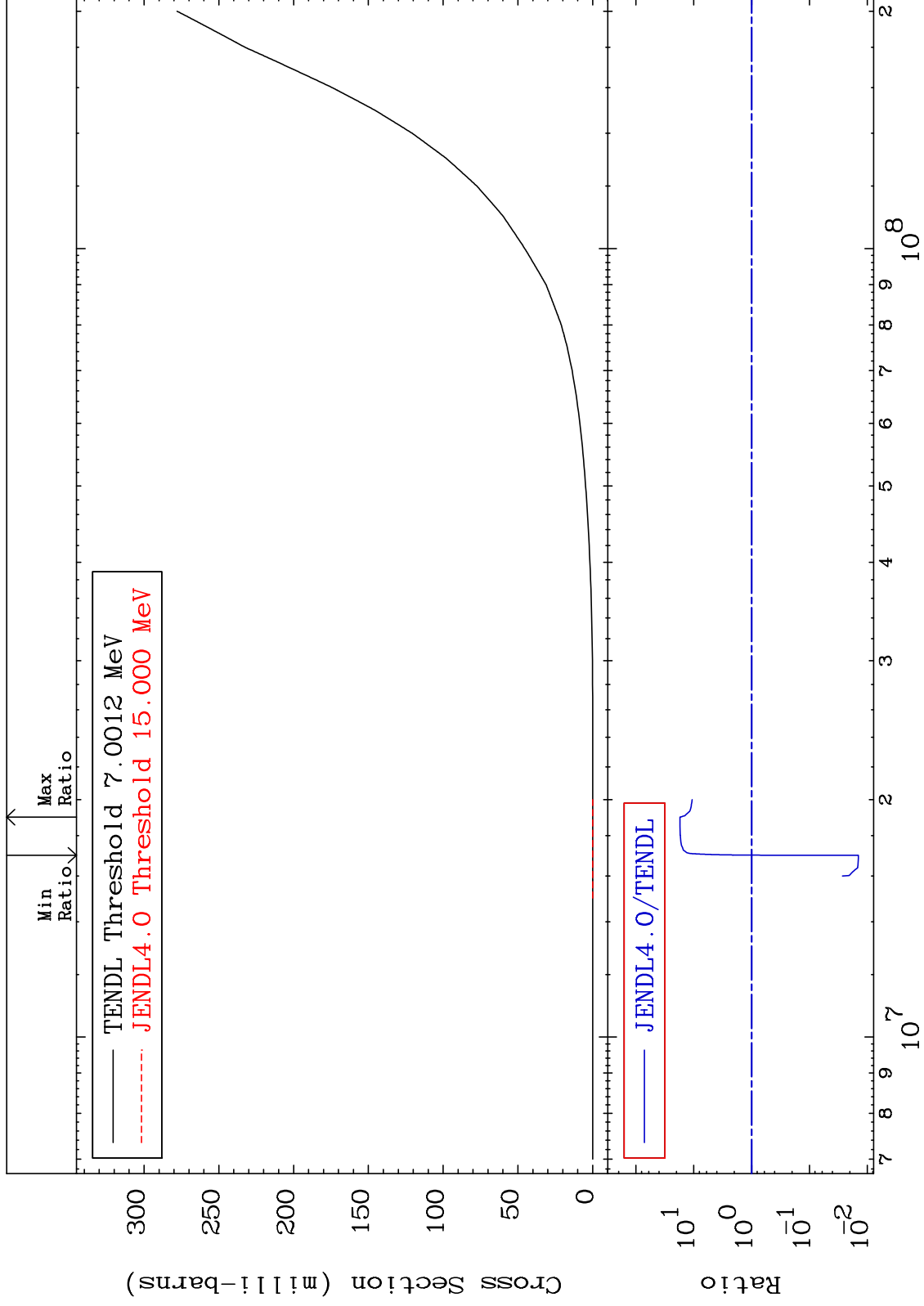
Incident Energy (eV)

⁷²Hf-180

MAT 7243

He-3 Production
Cross Section

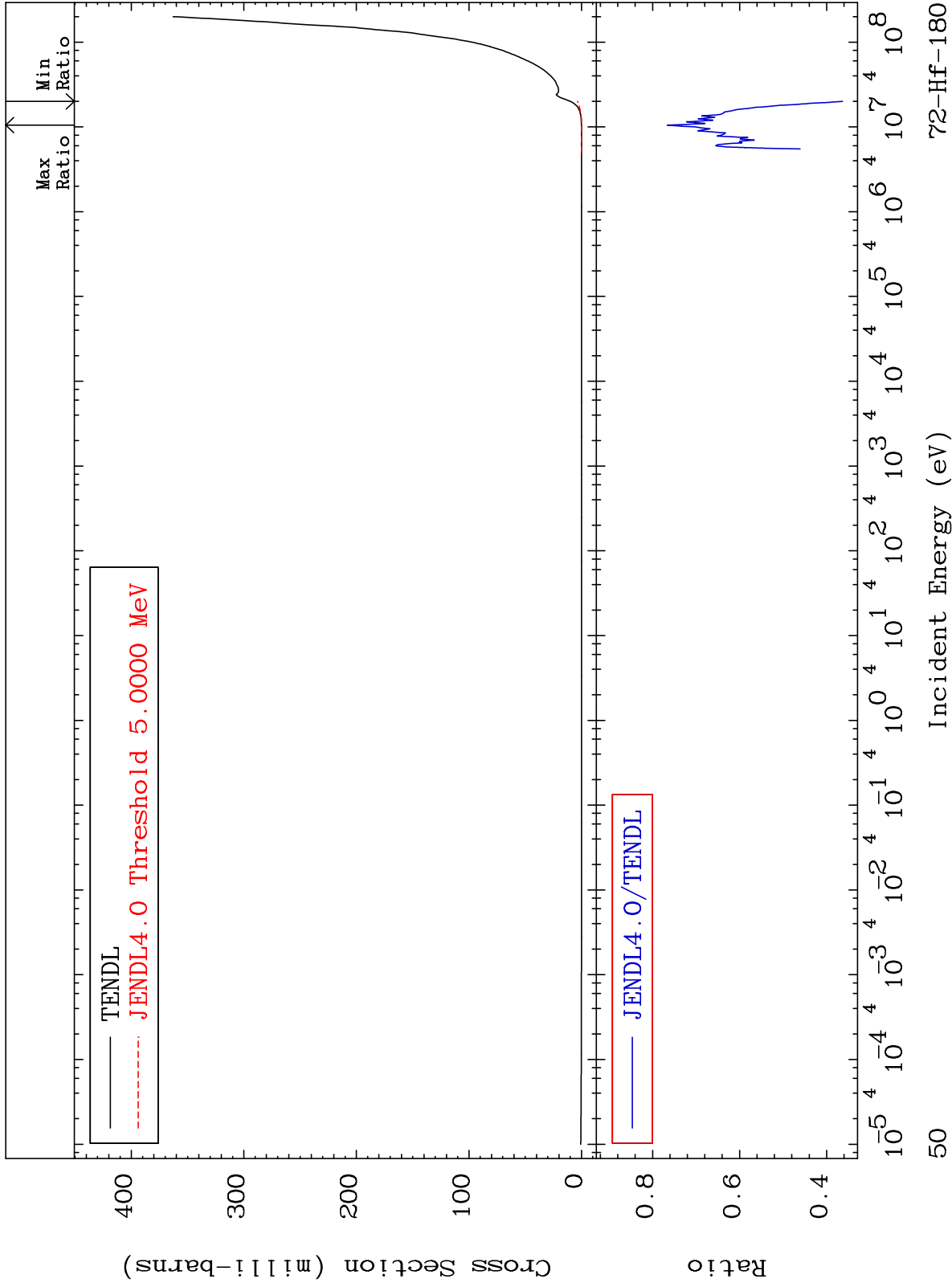
⁷²Hf-180
-98.58 To 1631. %



MAT 7243

He-4 Production
Cross Section

72-Hf-180
-63.67 To -23.38%



50

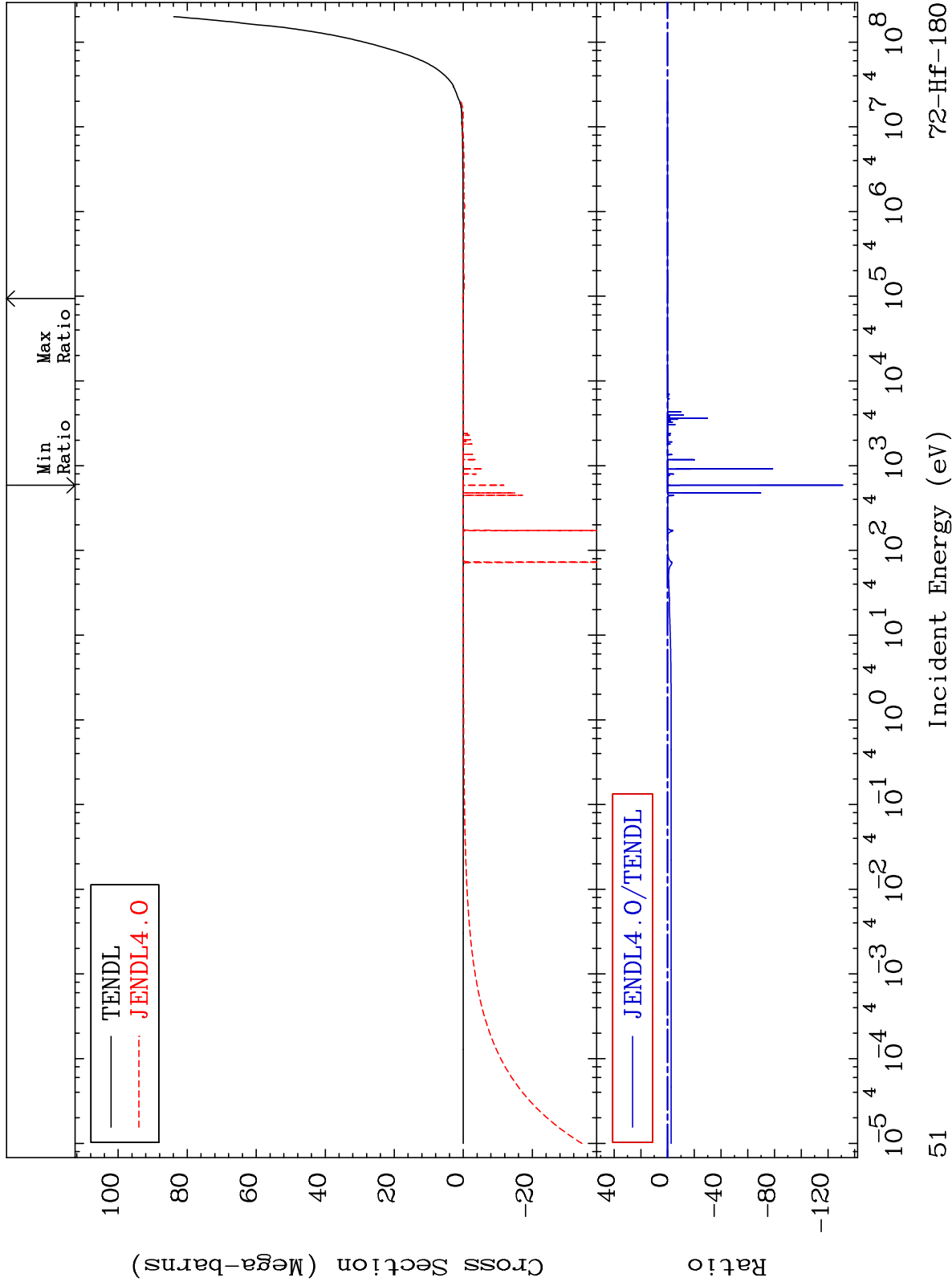
Incident Energy (eV)

72-Hf-180

MAT 7243

Kerma total (eV-barns)
Cross Section

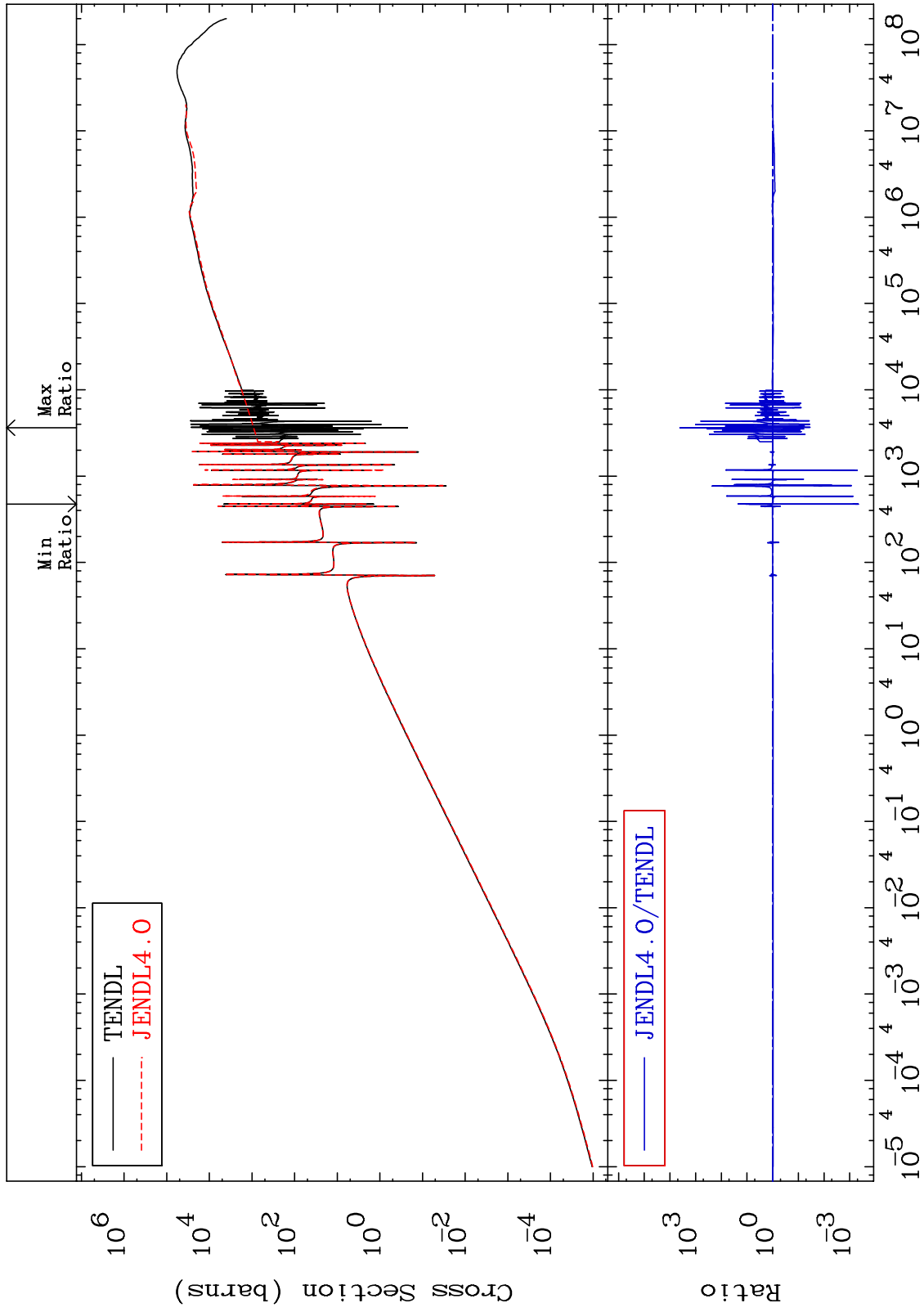
72-Hf-180
-9999. To 1929. %



MAT 7243

Kerma elastic
Cross Section

72-Hf-180
-99.95 To 9999. %



52

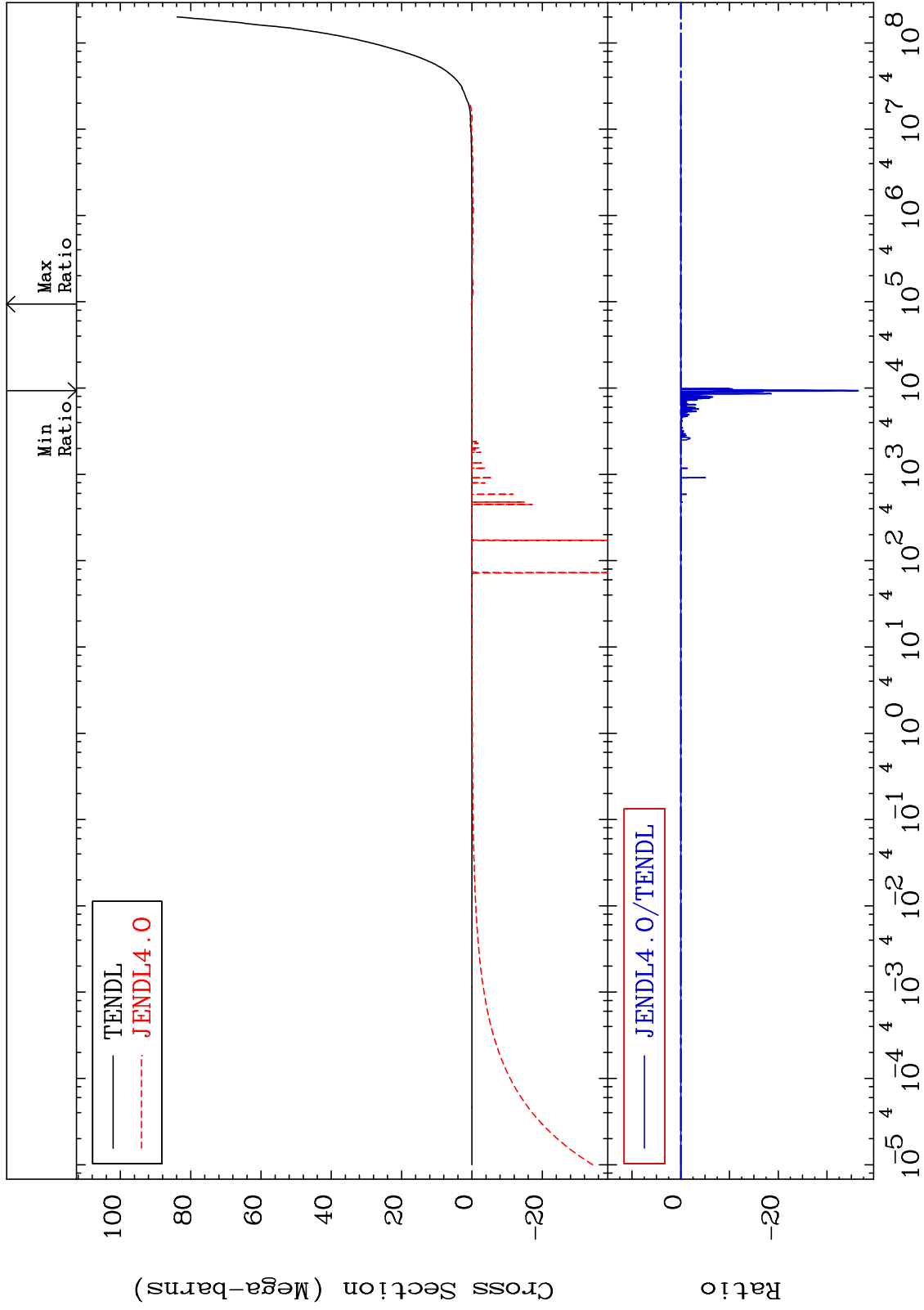
Incident Energy (eV)

72-Hf-180

MAT 7243

Kerma non-elastic (all but mt2)
Cross Section

72-Hf-180
-9999. To 9999. %



53

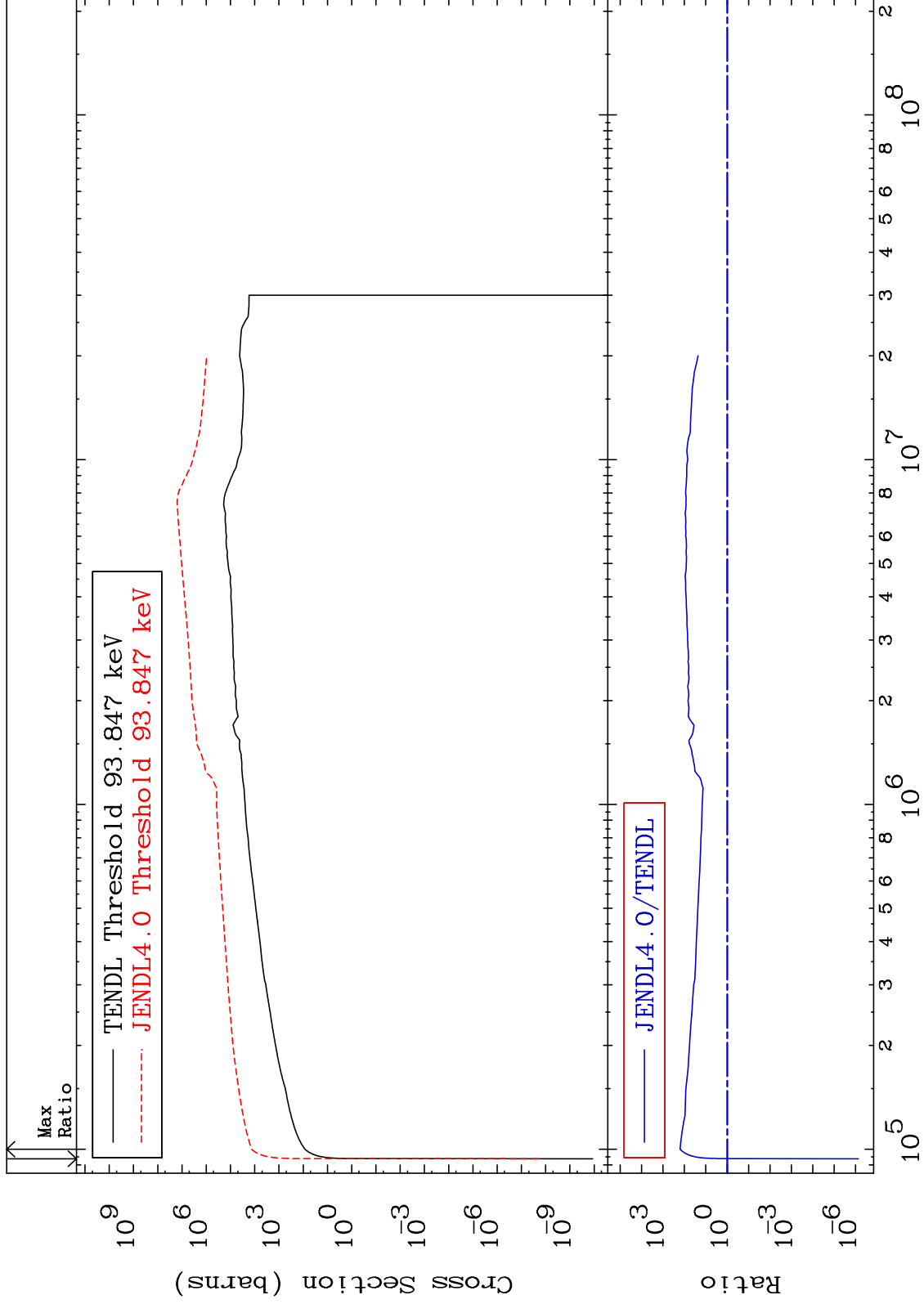
Incident Energy (eV)

72-Hf-180

MAT 7243

Kerma inelastic (mt51-91)
Cross Section

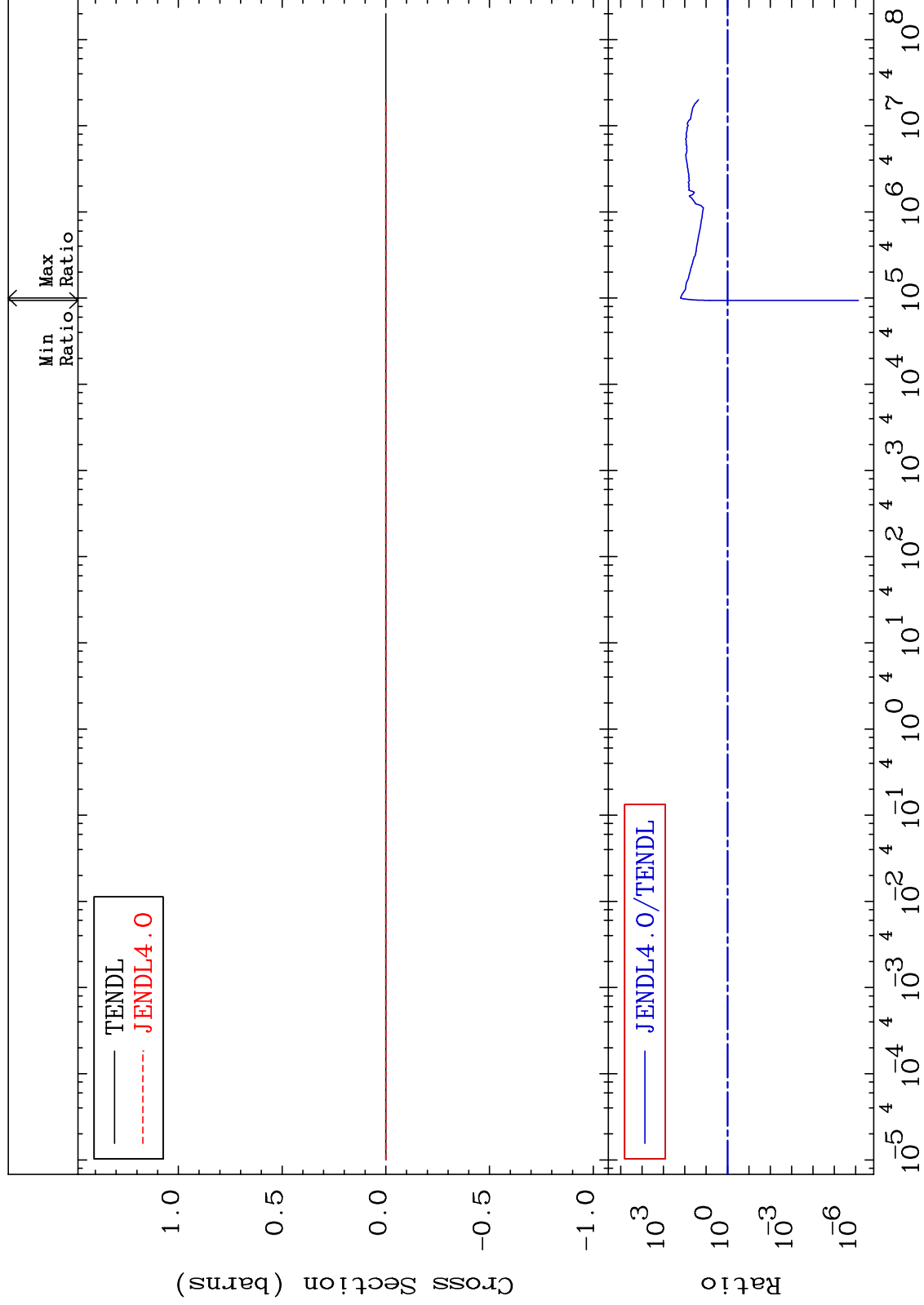
72-Hf-180
-100.0 To 9999. %



MAT 7243

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

72-Hf-180
-100.0 To 9999. %



55

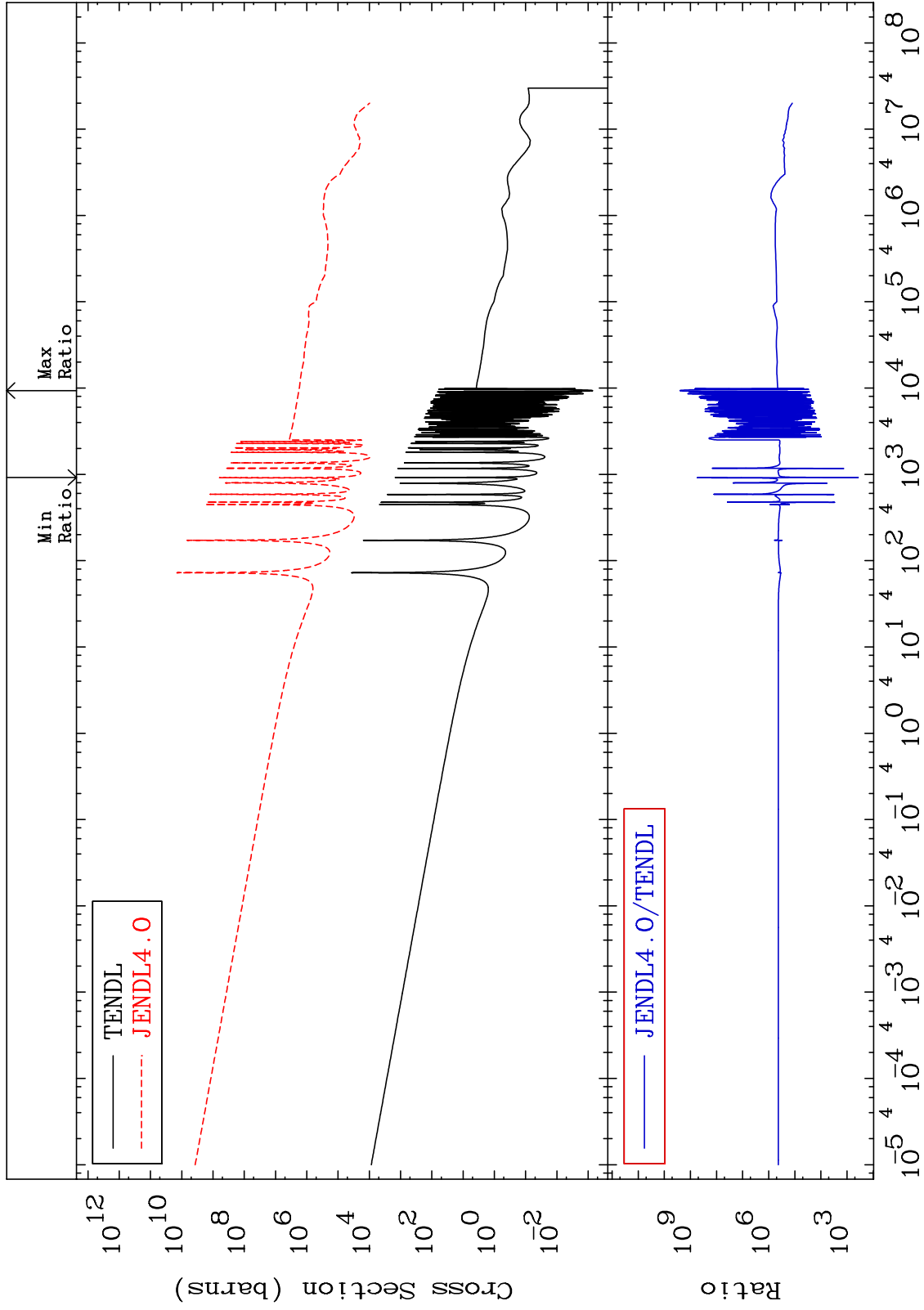
Incident Energy (eV)

72-Hf-180

MAT 7243

Kerma capture (mt102)
Cross Section

72-Hf-180
9999. To 9999. %



56

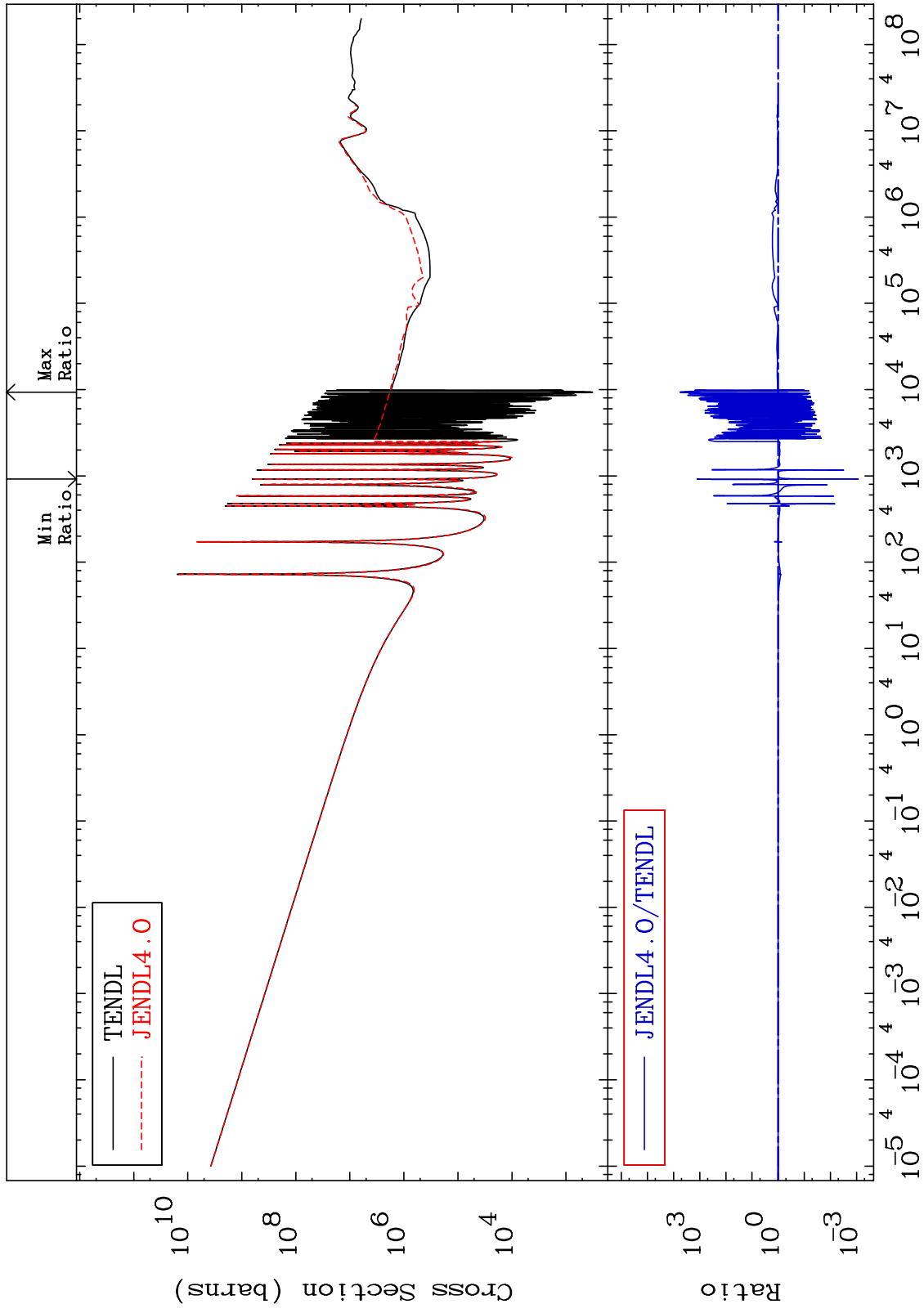
Incident Energy (eV)

72-Hf-180

MAT 7243

Total photon (eV-barns)
Cross Section

72-Hf-180
-99.91 To 9999. %



57

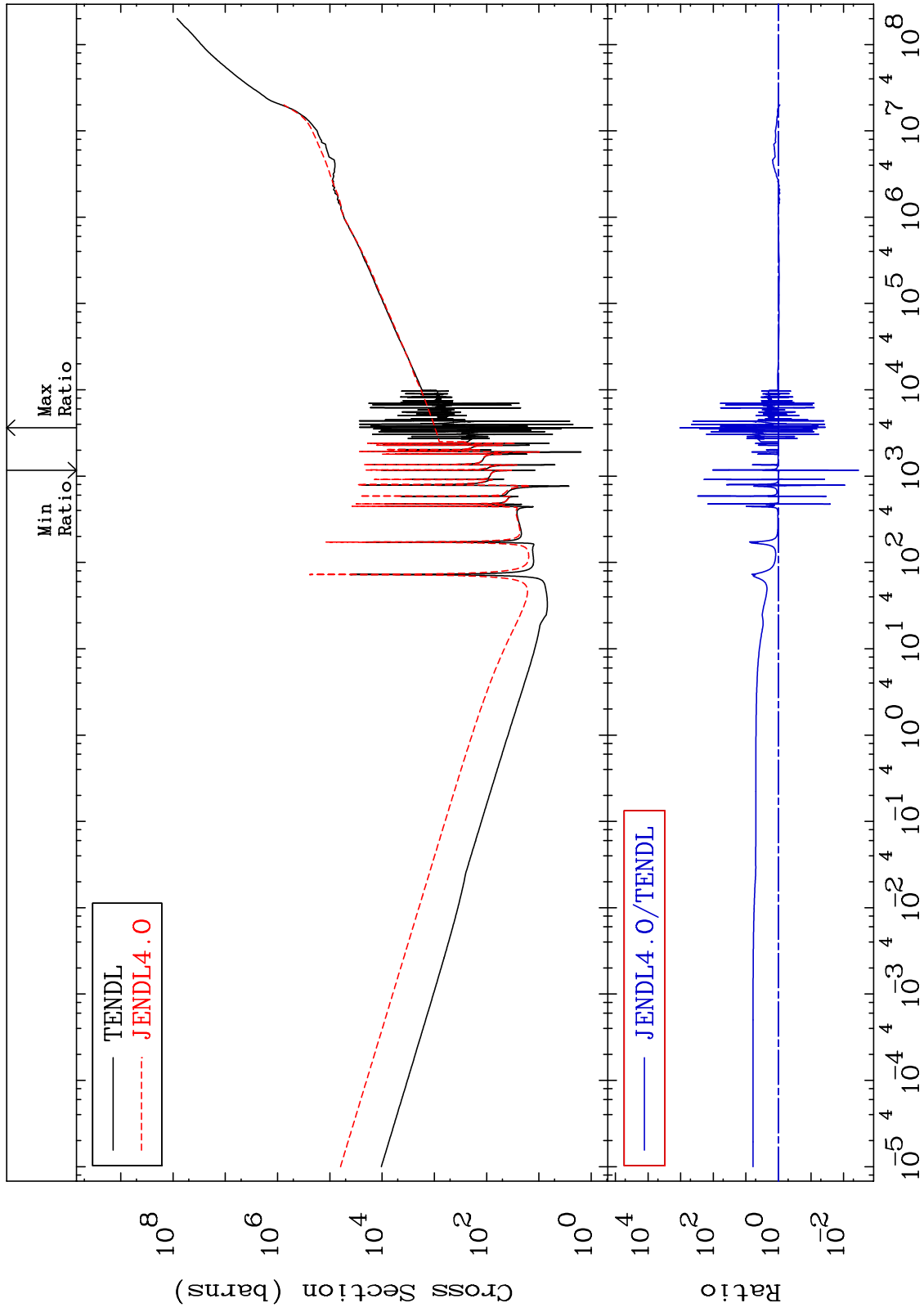
Incident Energy (eV)

72-Hf-180

MAT 7243

Total kinematic kerma (high limit)
Cross Section

72-Hf-180
-99.65 To 9999. %



58

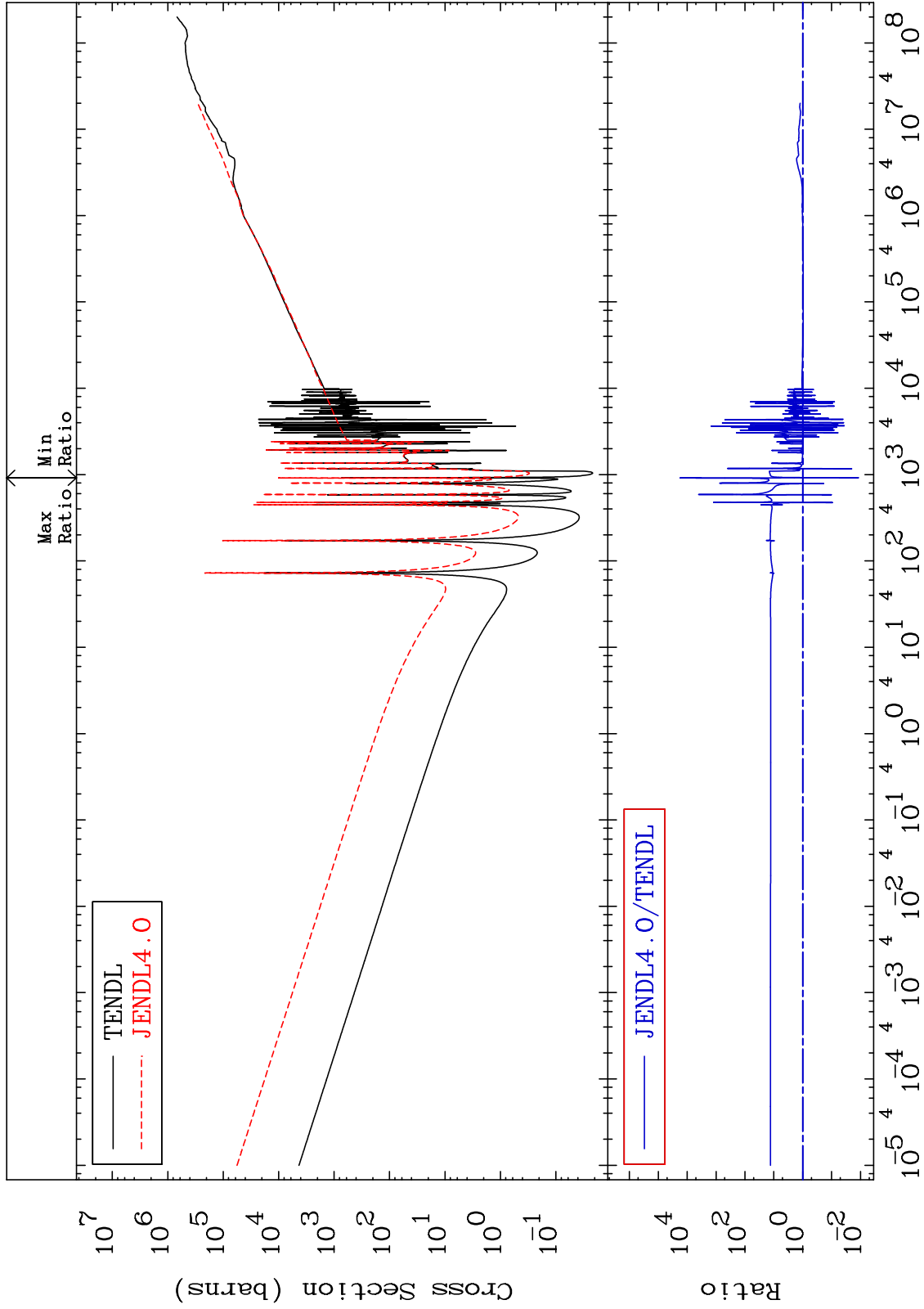
Incident Energy (eV)

72-Hf-180

MAT 7243

Dpa total (eV-barns)
Cross Section

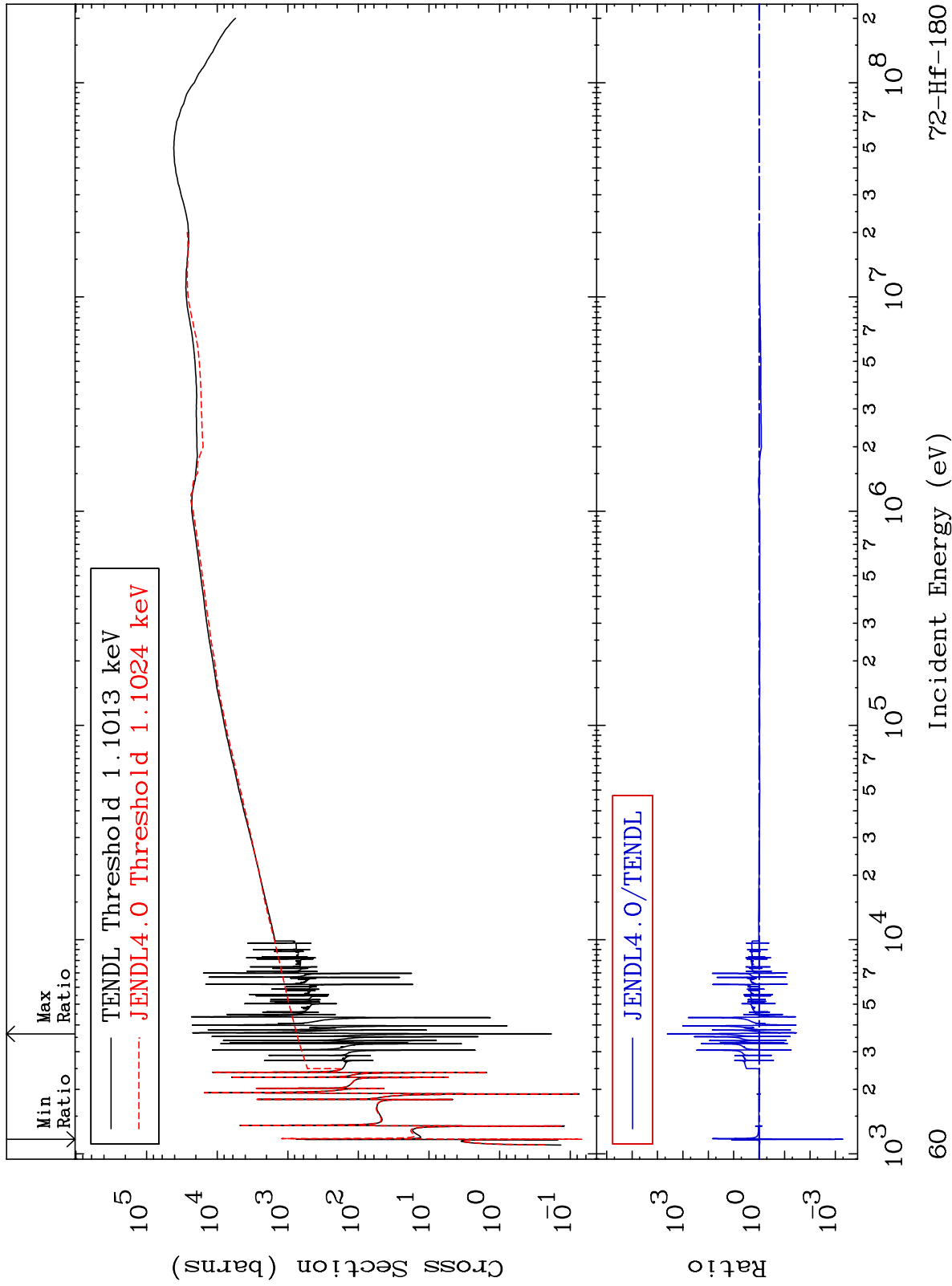
72-Hf-180
-98.82 To 9999. %



MAT 7243

Dpa elastic (mt2)
Cross Section

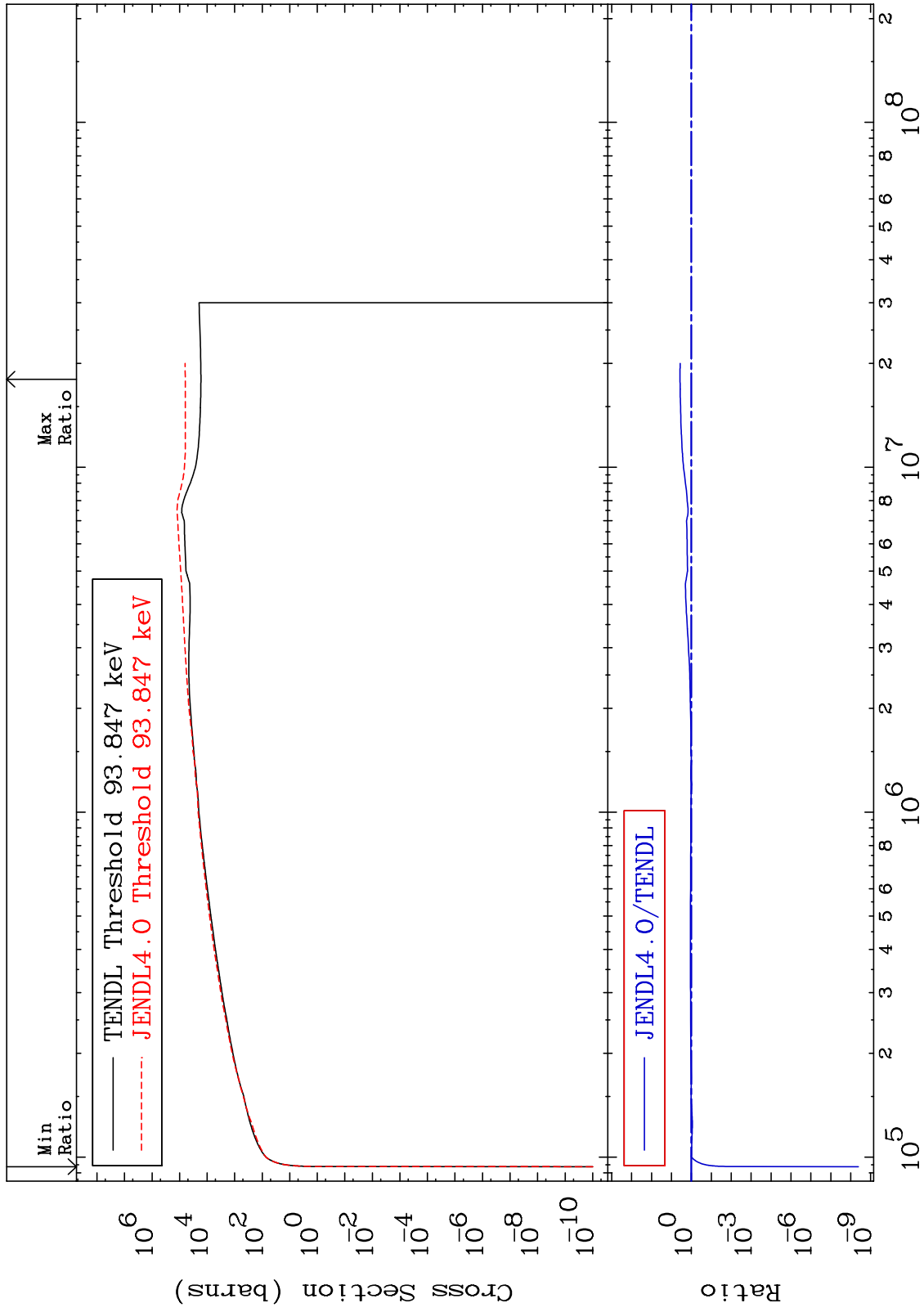
72-Hf-180
-99.95 To 9999. %



MAT 7243

Dpa inelastic (mt51-91)
Cross Section

72-Hf-180
-100.0 To 272.3 %



61

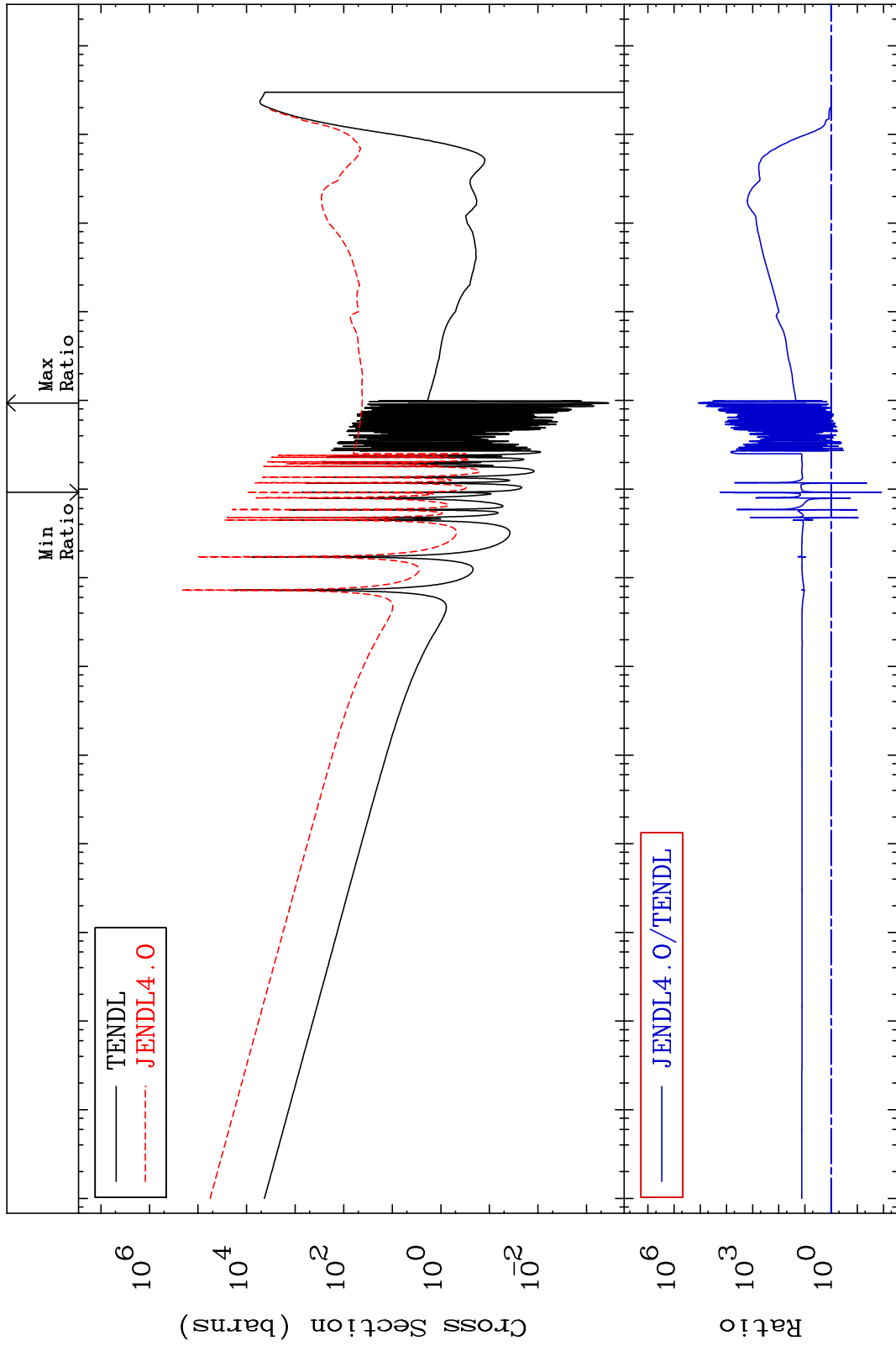
Incident Energy (eV)

72-Hf-180

MAT 7243

Dpa disappearance (mt102 -120)
Cross Section

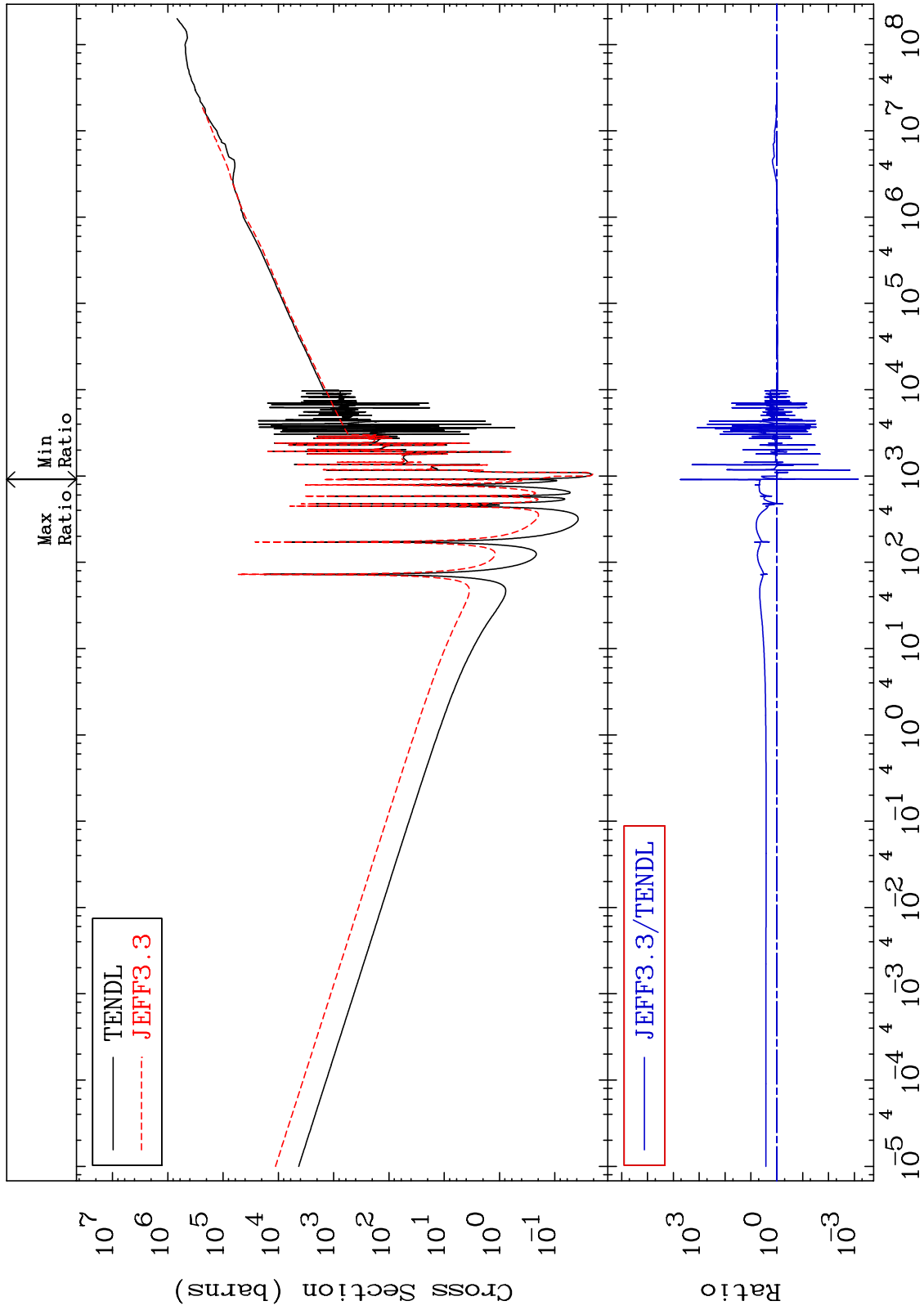
72-Hf-180
-98.82 To 9999. %



MAT 7243

Dpa total (eV-barns)
Cross Section

72-Hf-180
-99.93 To 9999. %



63

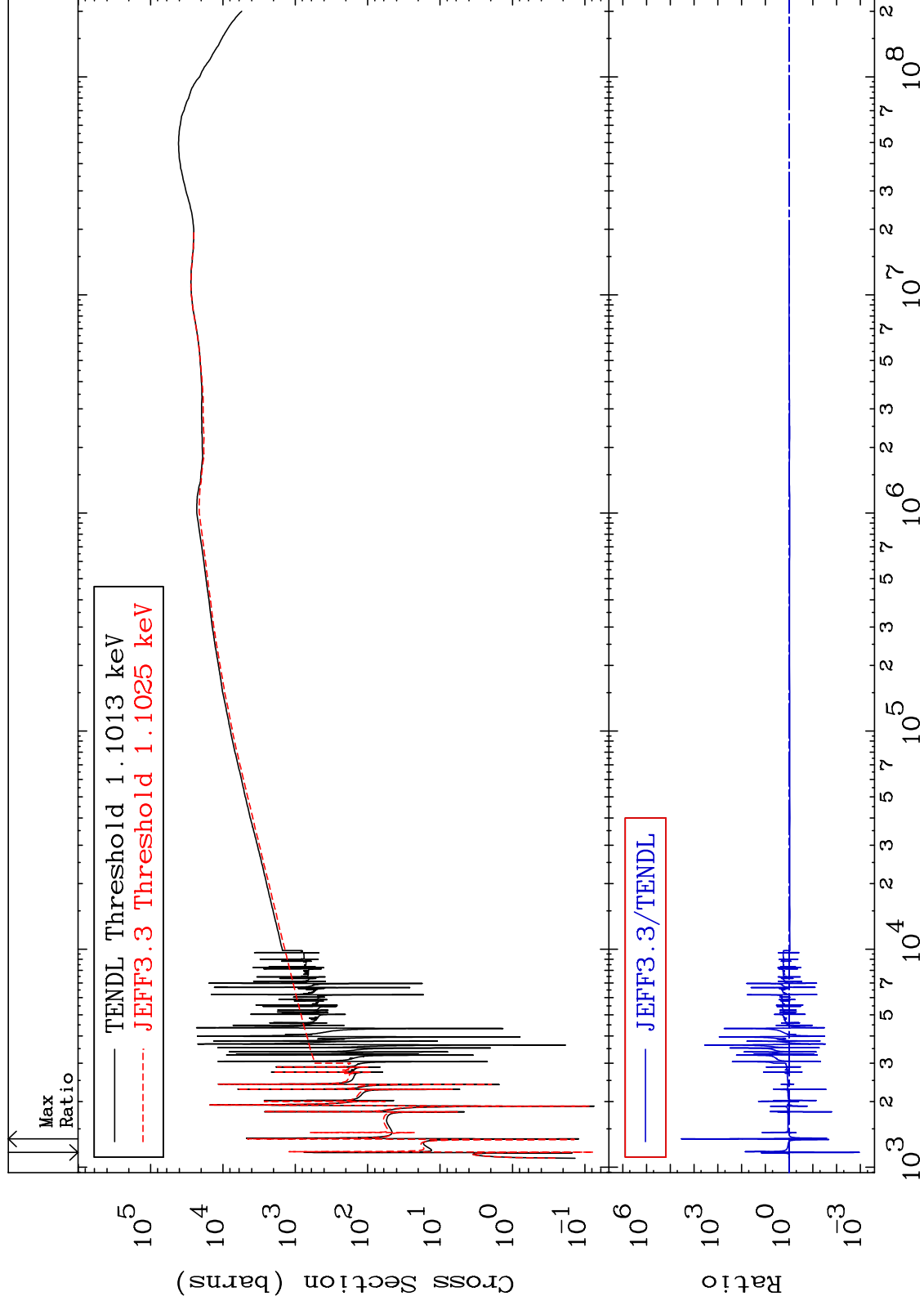
Incident Energy (eV)

72-Hf-180

MAT 7243

Dpa elastic (mt2)
Cross Section

72-Hf-180
-99.89 To 9999. %



64

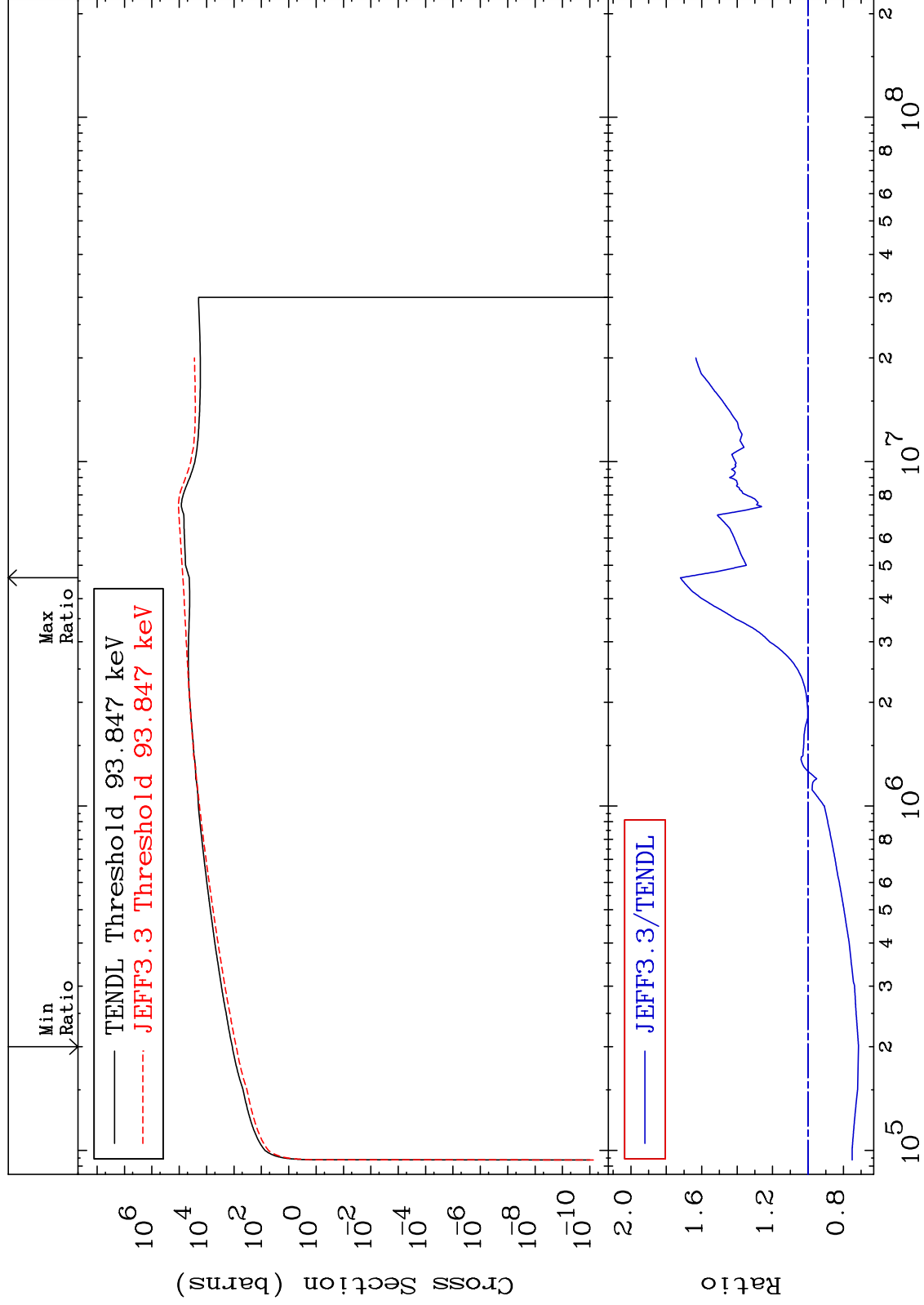
Incident Energy (eV)

72-Hf-180

MAT 7243

Dpa inelastic (mt51-91)
Cross Section

⁷²Hf-180
-28.52 To 72.01 %



65

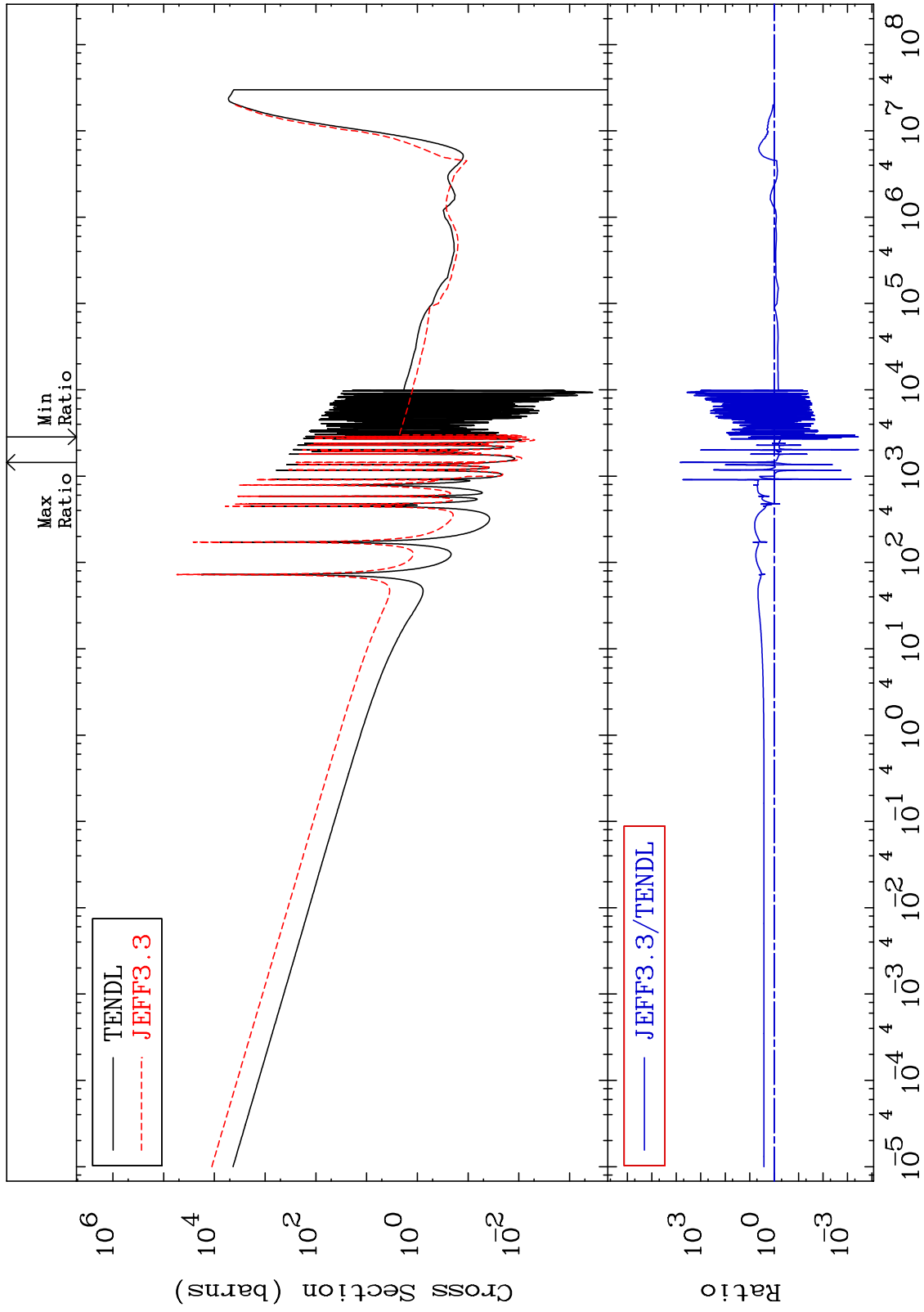
Incident Energy (eV)

⁷²Hf-180

MAT 7243

Dpa disappearance (mt102 -120)
Cross Section

72-Hf-180
-99.96 To 9999. %



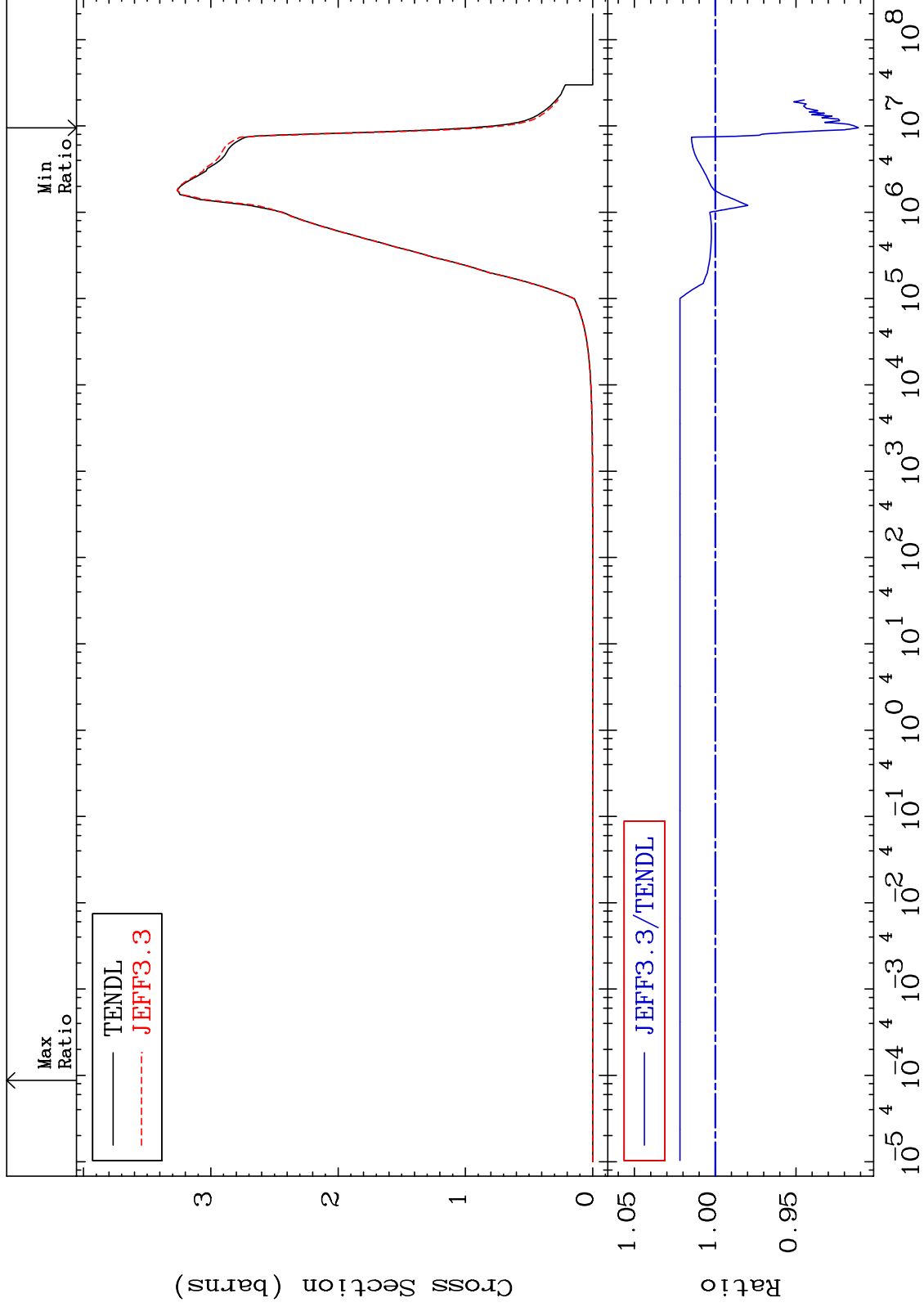
MAT 7243

Inelastic: 72-Hf-180g

72-Hf-180

Radionuclide Production Cross Section

-8.862 To 2.180 %



67

Radionuclide Production Cross Section

72-Hf-180

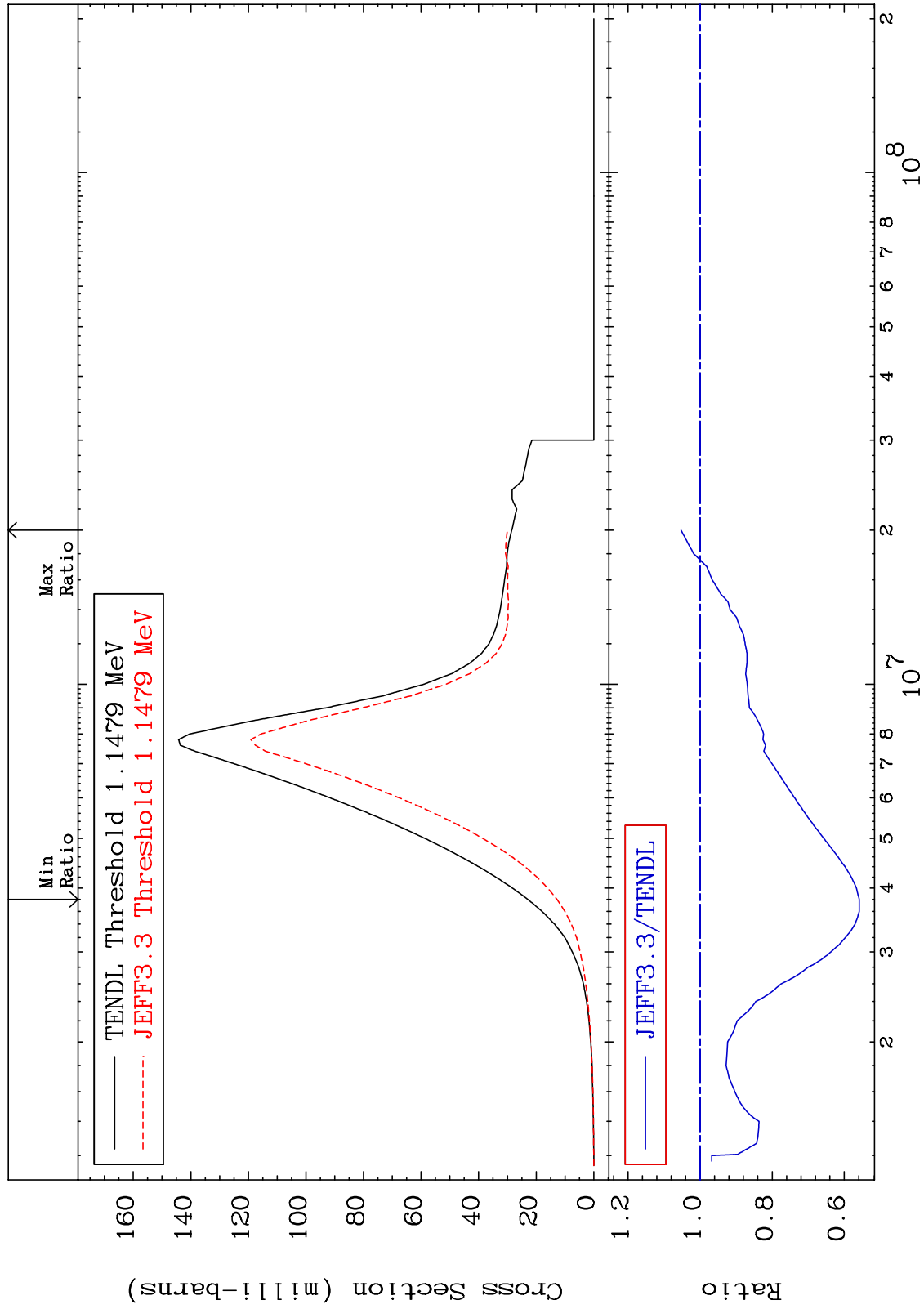
MAT 7243

Inelastic: 72-Hf-180m7

72-Hf-180

Radionuclide Production Cross Section

-44.16 To 5.280 %

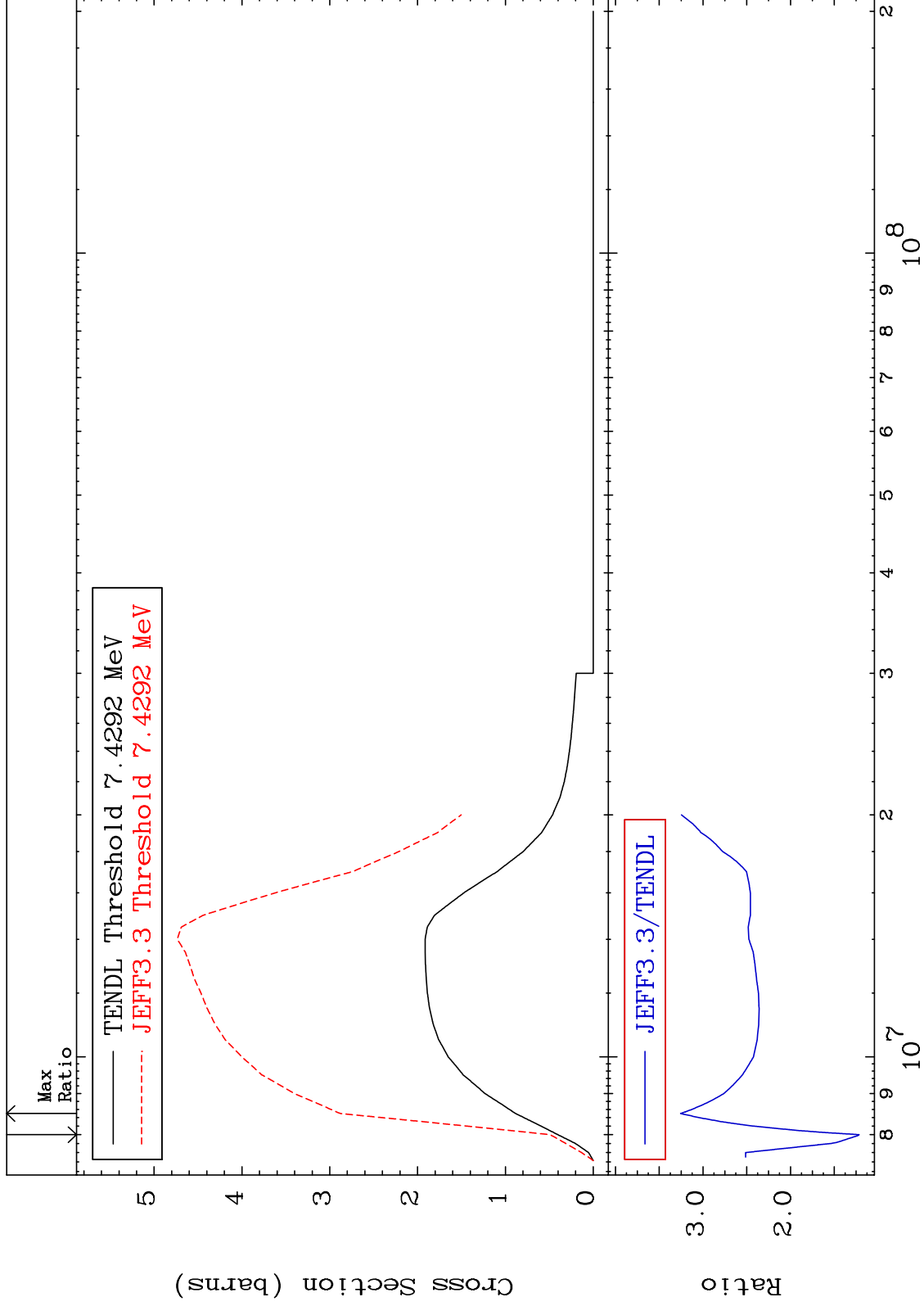


MAT 7243

(n,2n):72-Hf-179g

72-Hf-180

Radionuclide Production Cross Section 21.48 To 225.6 %

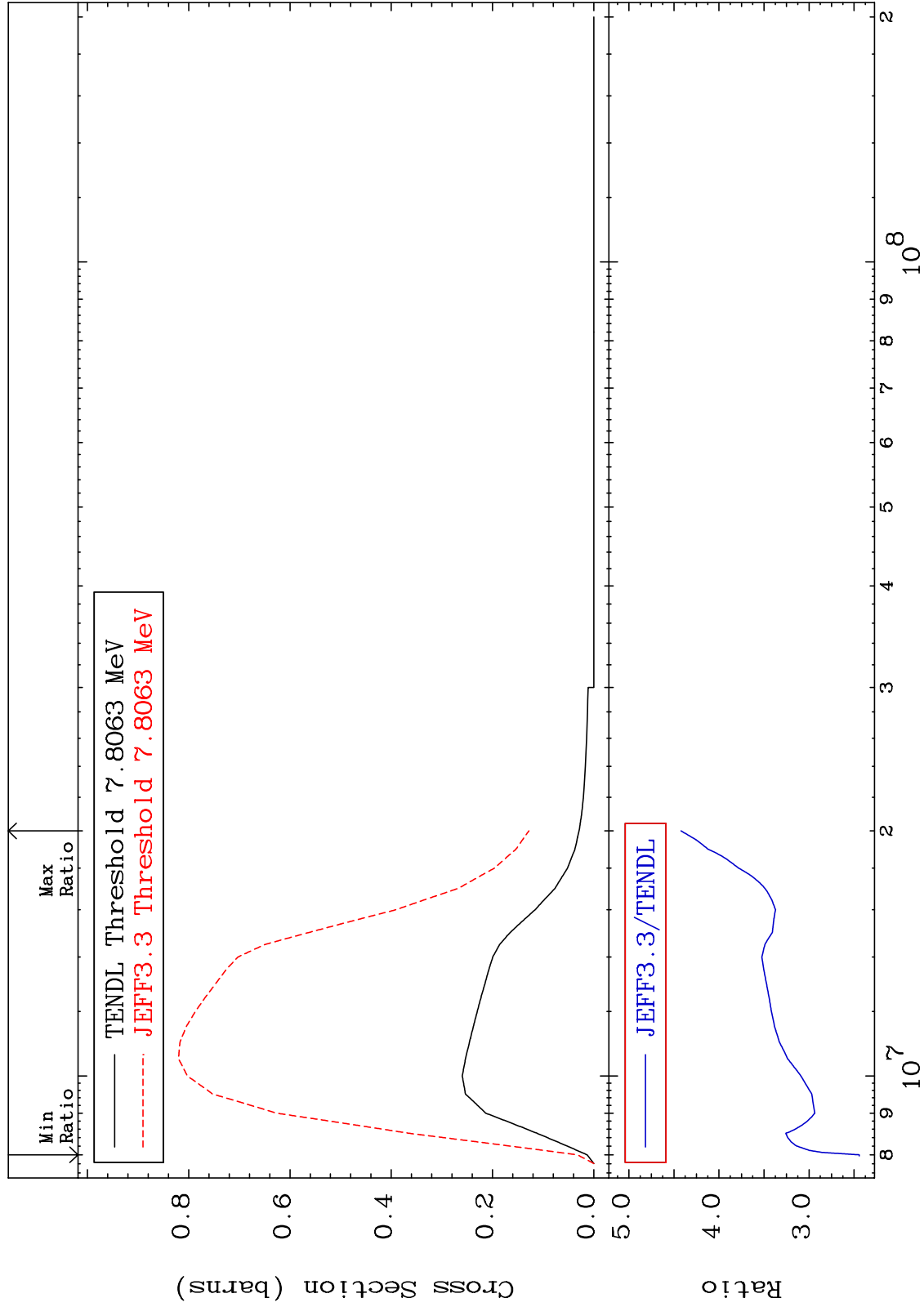


MAT 7243

(n,2n): 72-Hf-179m5

72-Hf-180

Radionuclide Production Cross Section 144.2 To 342.1 %



70

Incident Energy (eV)

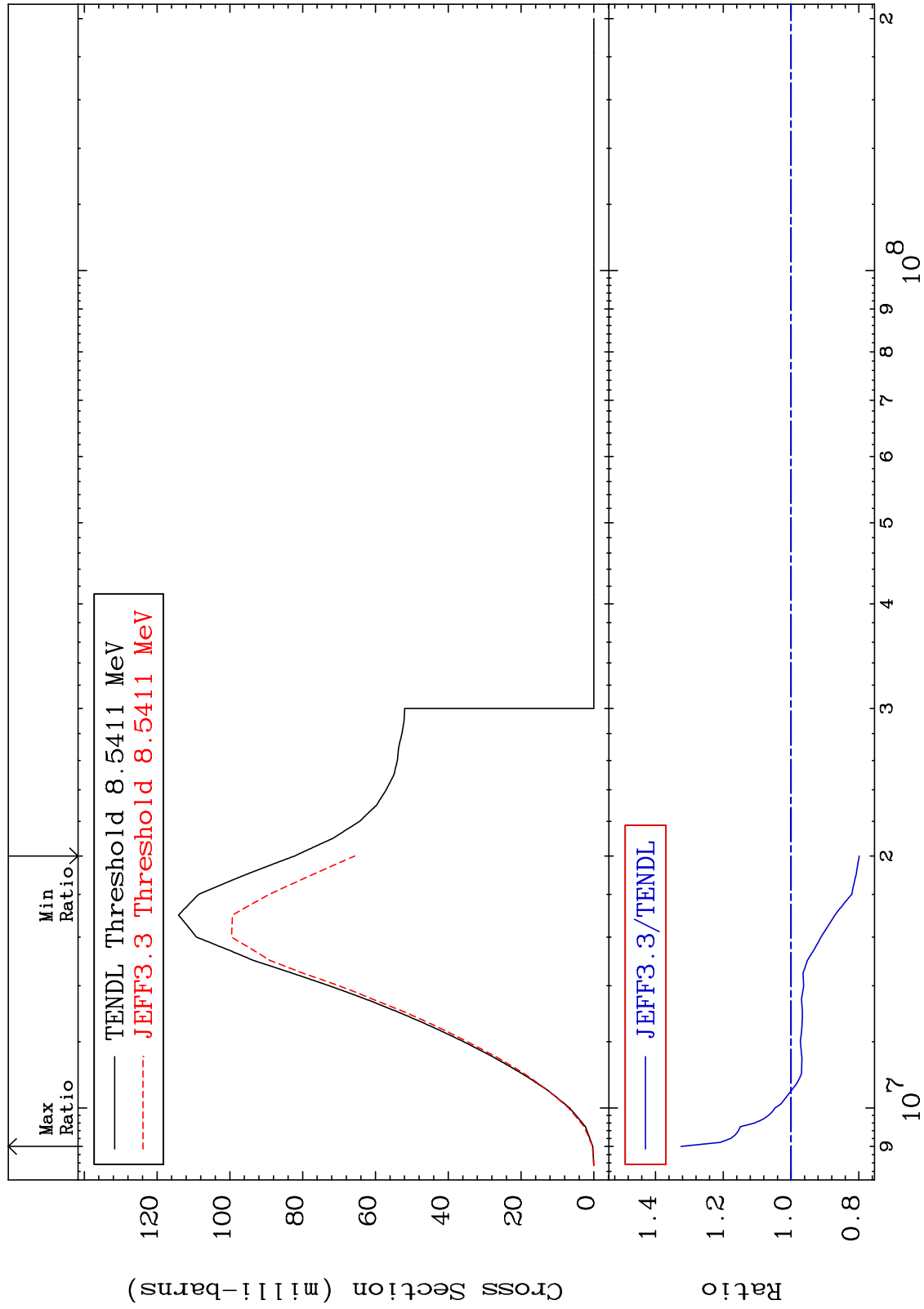
72-Hf-180

MAT 7243

(n,2n): 72-Hf-179m10

72-Hf-180

Radionuclide Production Cross Section -20.14 To 32.43 %



71

Incident Energy (eV)

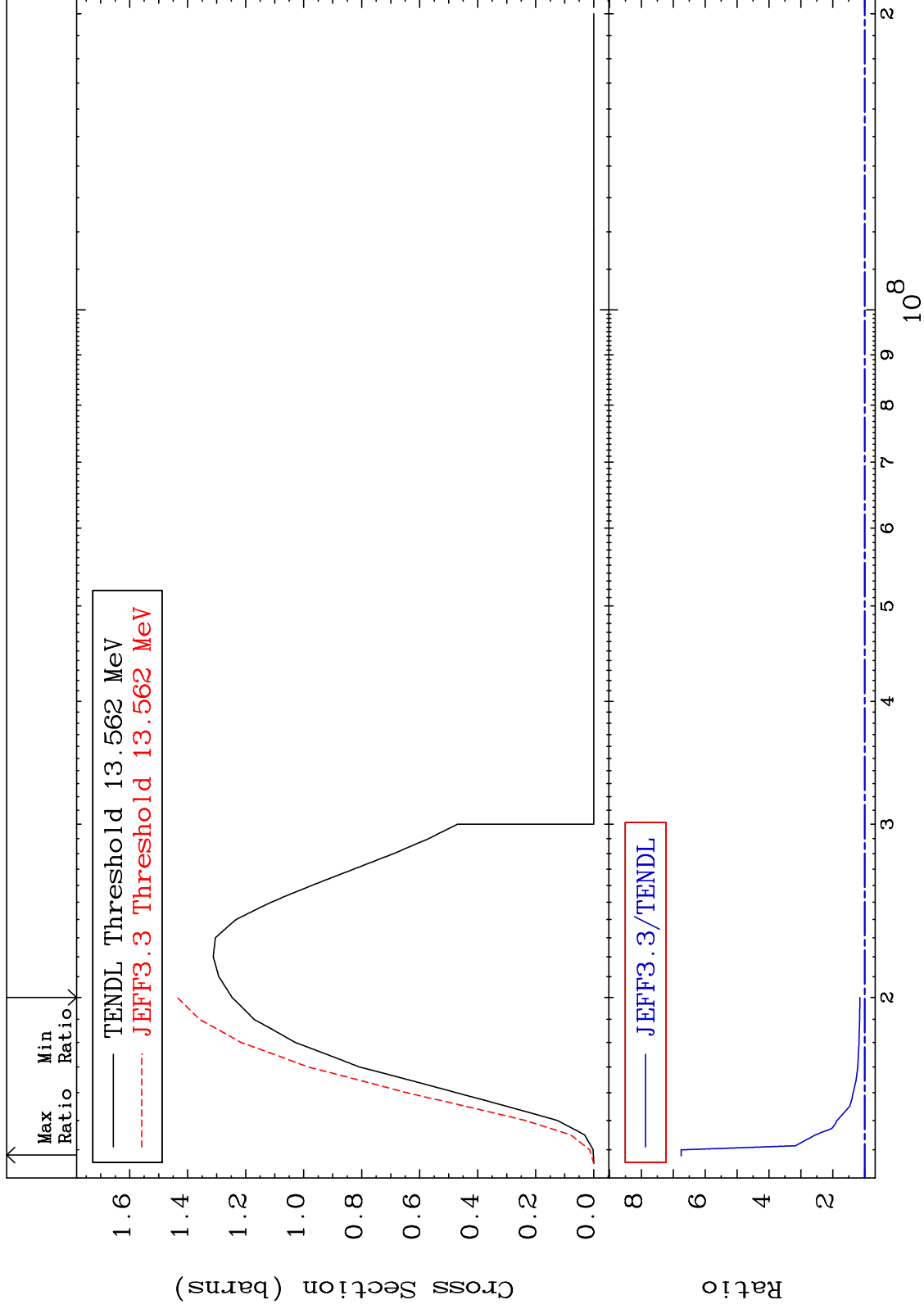
72-Hf-180

MAT 7243

(n,3n):72-Hf-178g

72-Hf-180

Radionuclide Production Cross Section 15.12 To 575.4 %



72

Incident Energy (eV)

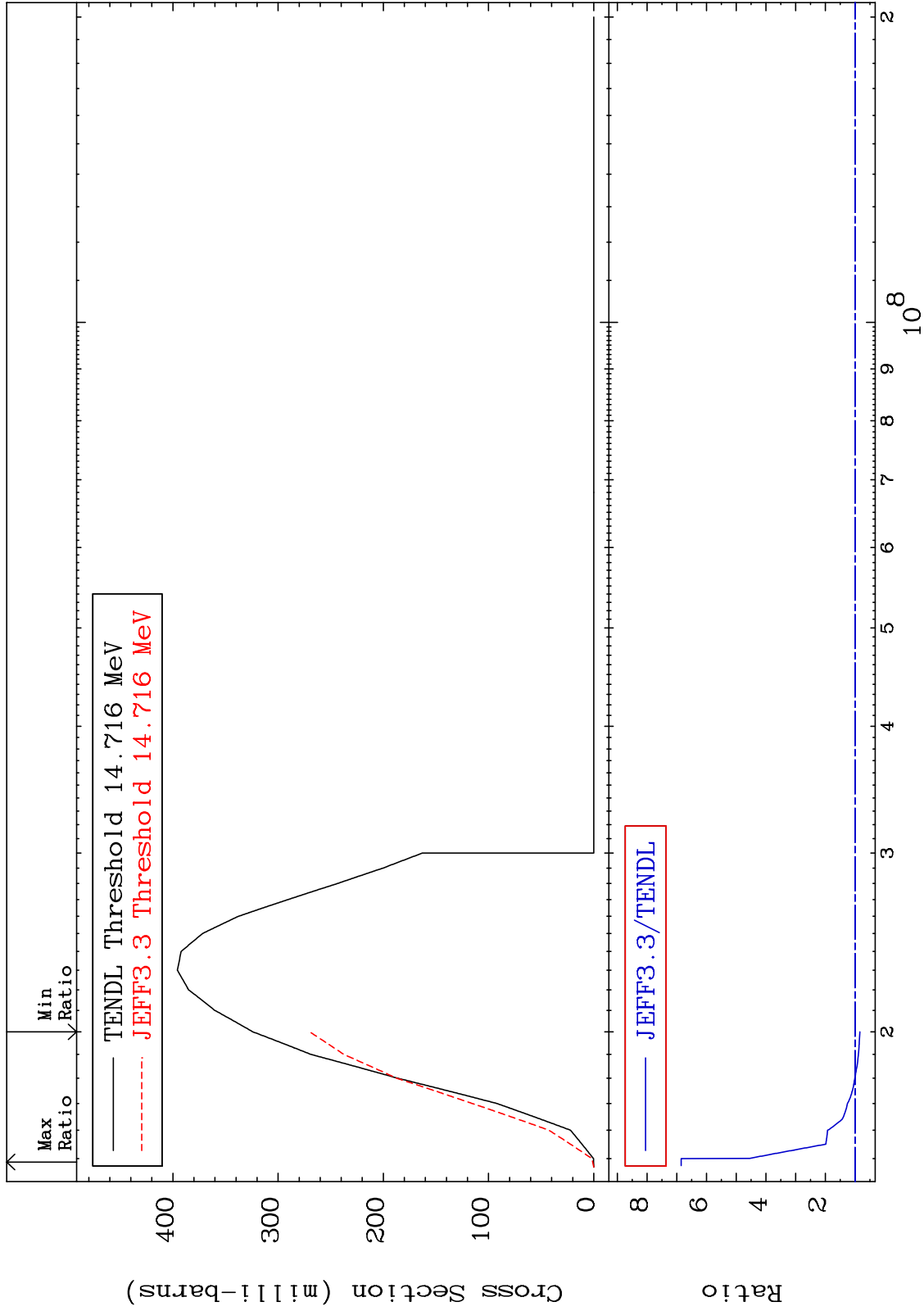
72-Hf-180

MAT 7243

(n, 3n): 72-Hf-178m5

72-Hf-180

Radionuclide Production Cross Section -16.66 To 584.8 %



73

Incident Energy (eV)

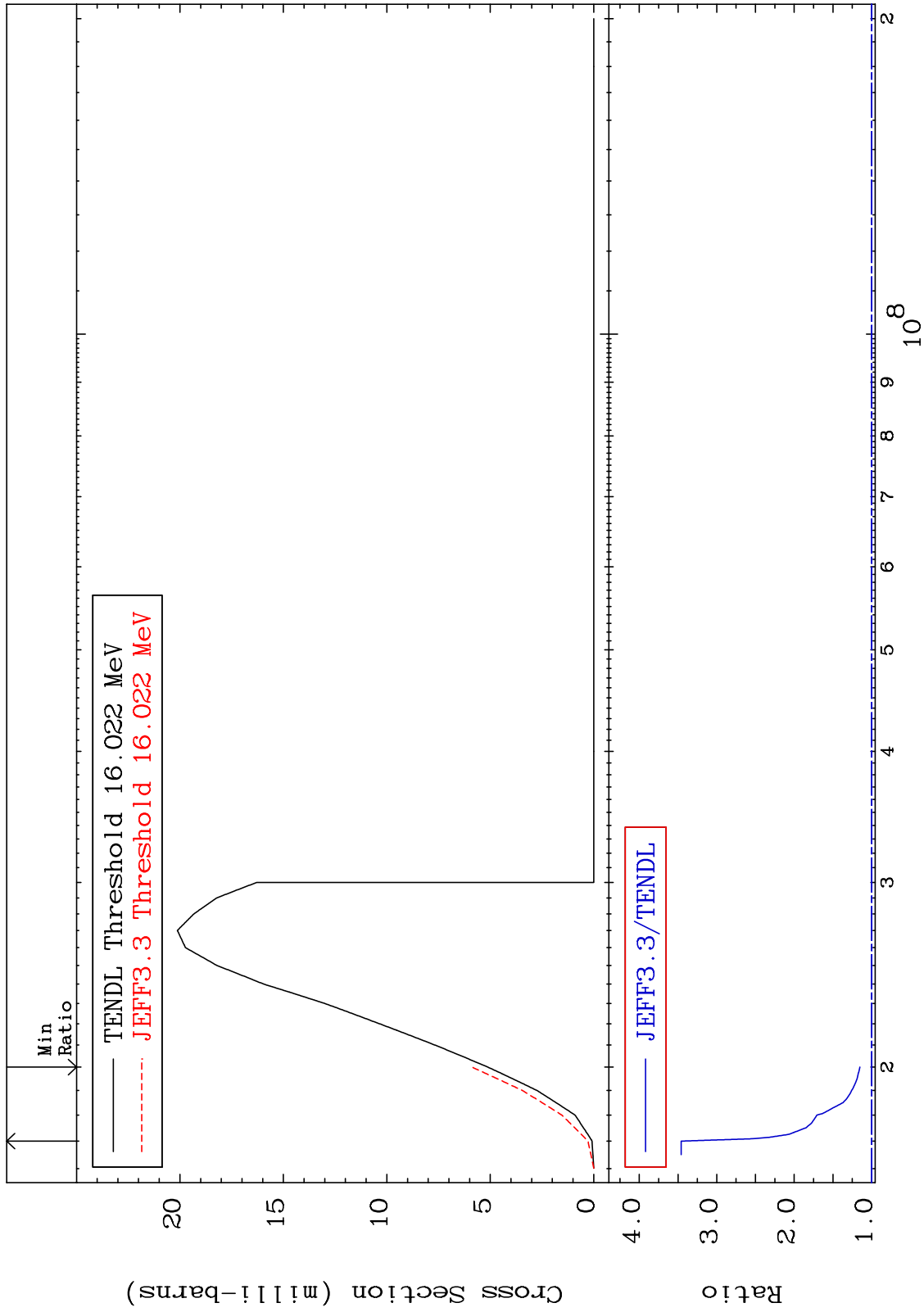
72-Hf-180

MAT 7243

(n,3n): 72-Hf-178m10

72-Hf-180

Radionuclide Production Cross Section 15.12 To 245.8 %



74

Incident Energy (eV)

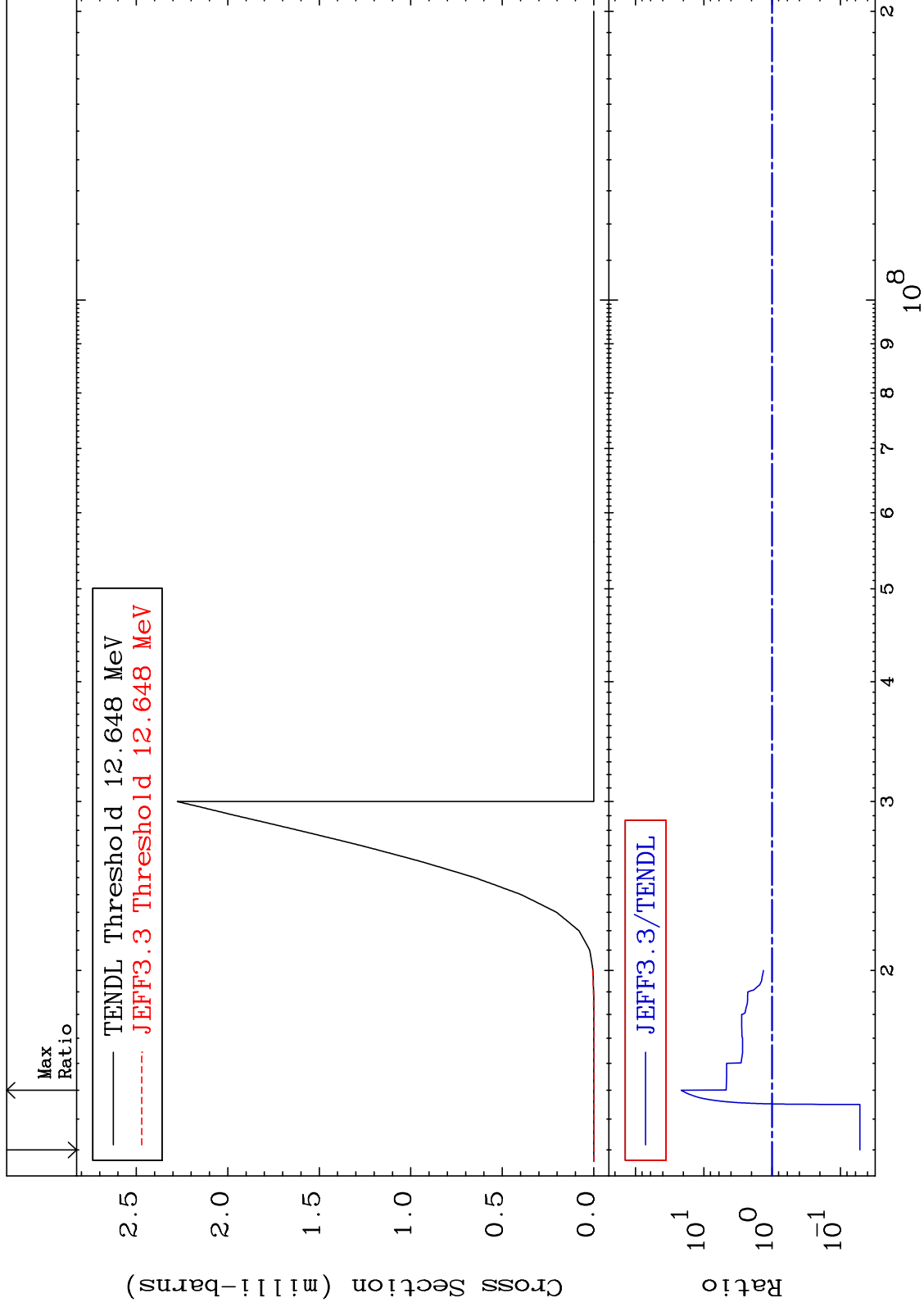
72-Hf-180

MAT 7243

(n, n') d:71-Lu-178g

72-Hf-180

Radionuclide Production Cross Section -94.83 To 2042. %



75

Incident Energy (eV)

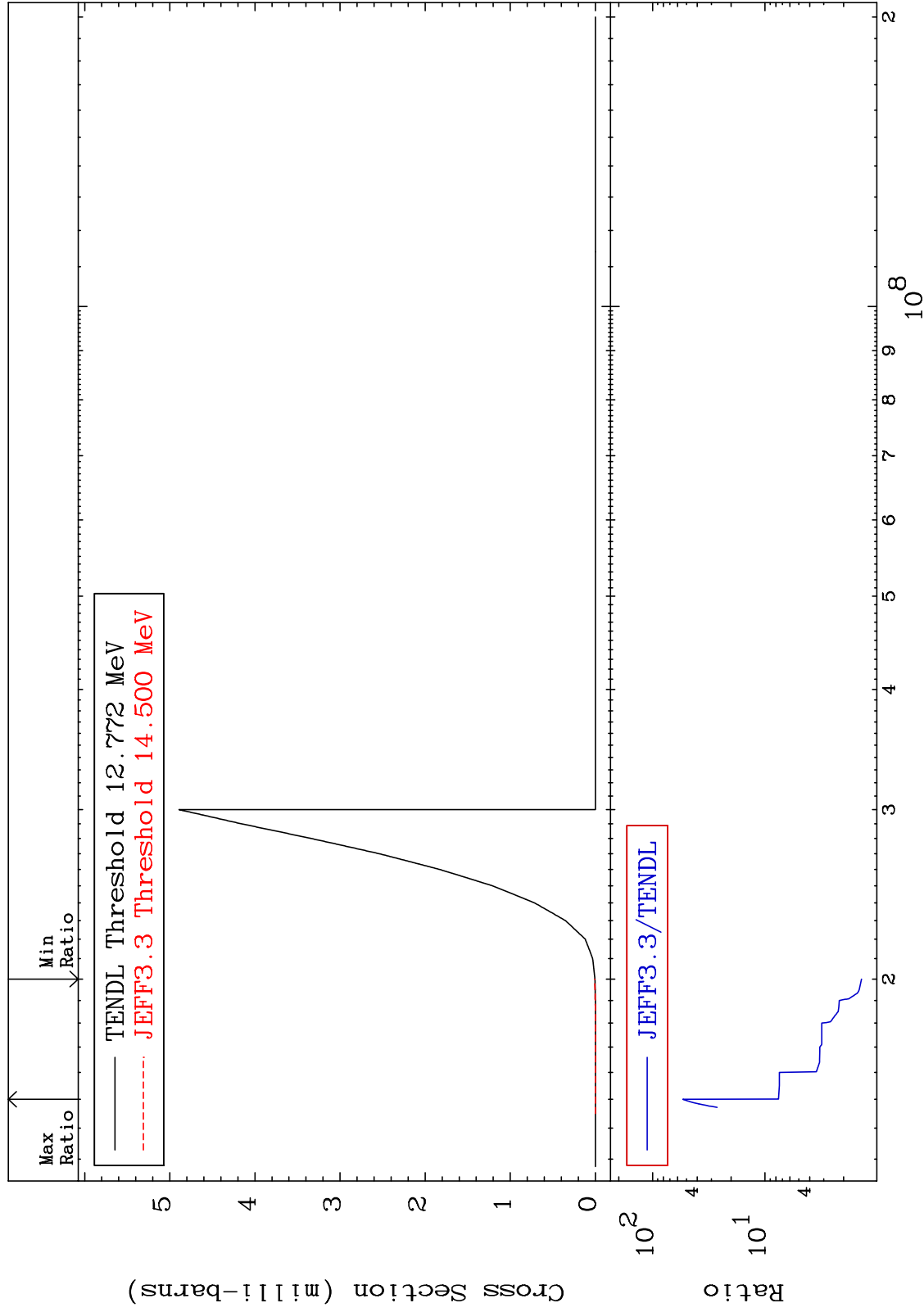
72-Hf-180

MAT 7243

(n, n') d:71-Lu-178m3

72-Hf-180

Radionuclide Production Cross Section 38.44 To 5276. %



76

Incident Energy (eV)

72-Hf-180

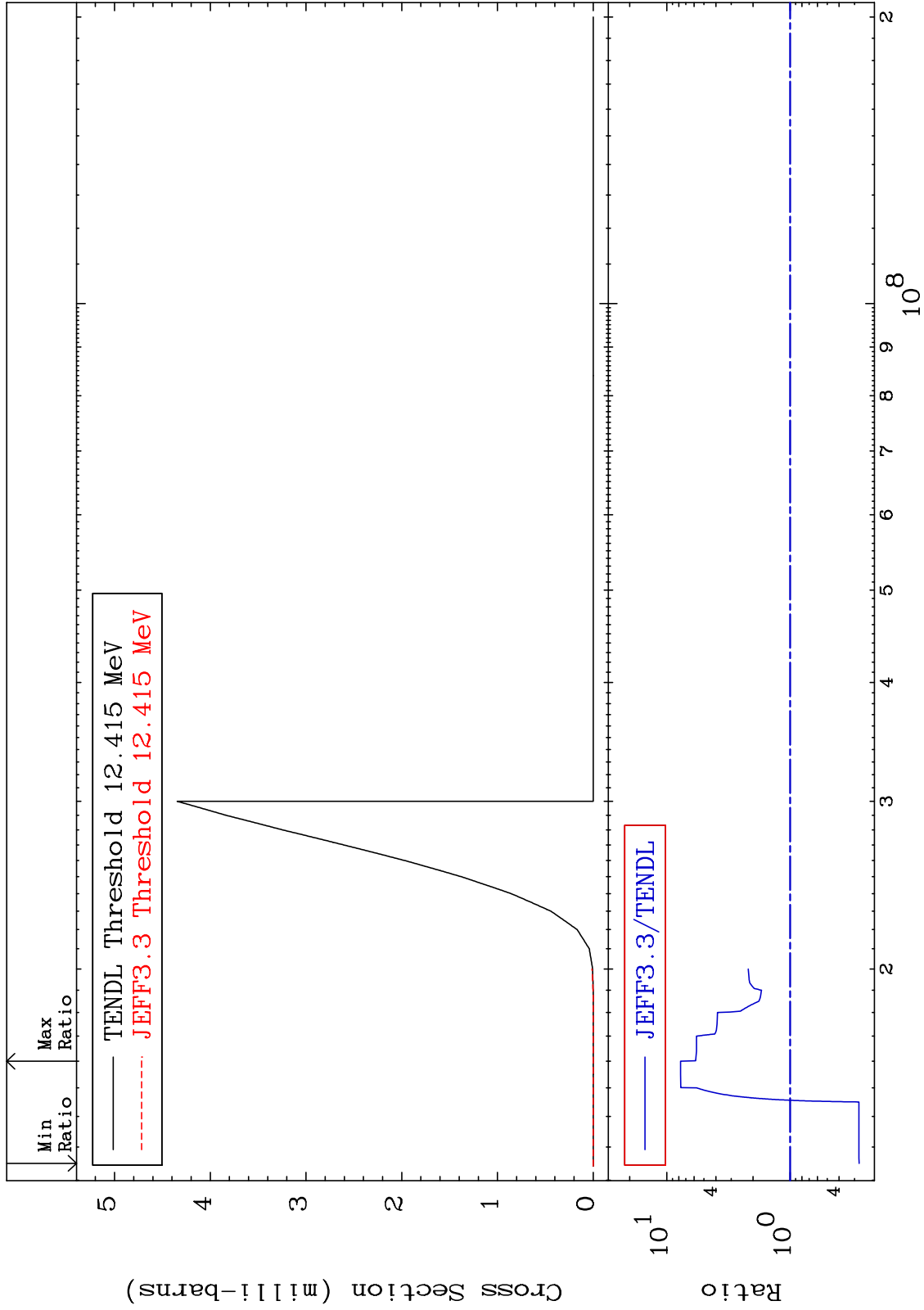
MAT 7243

(n, n') t:71-Lu-177g

72-Hf-180

Radionuclide Production Cross Section

-72.51 To 672.1 %



77

Incident Energy (eV)

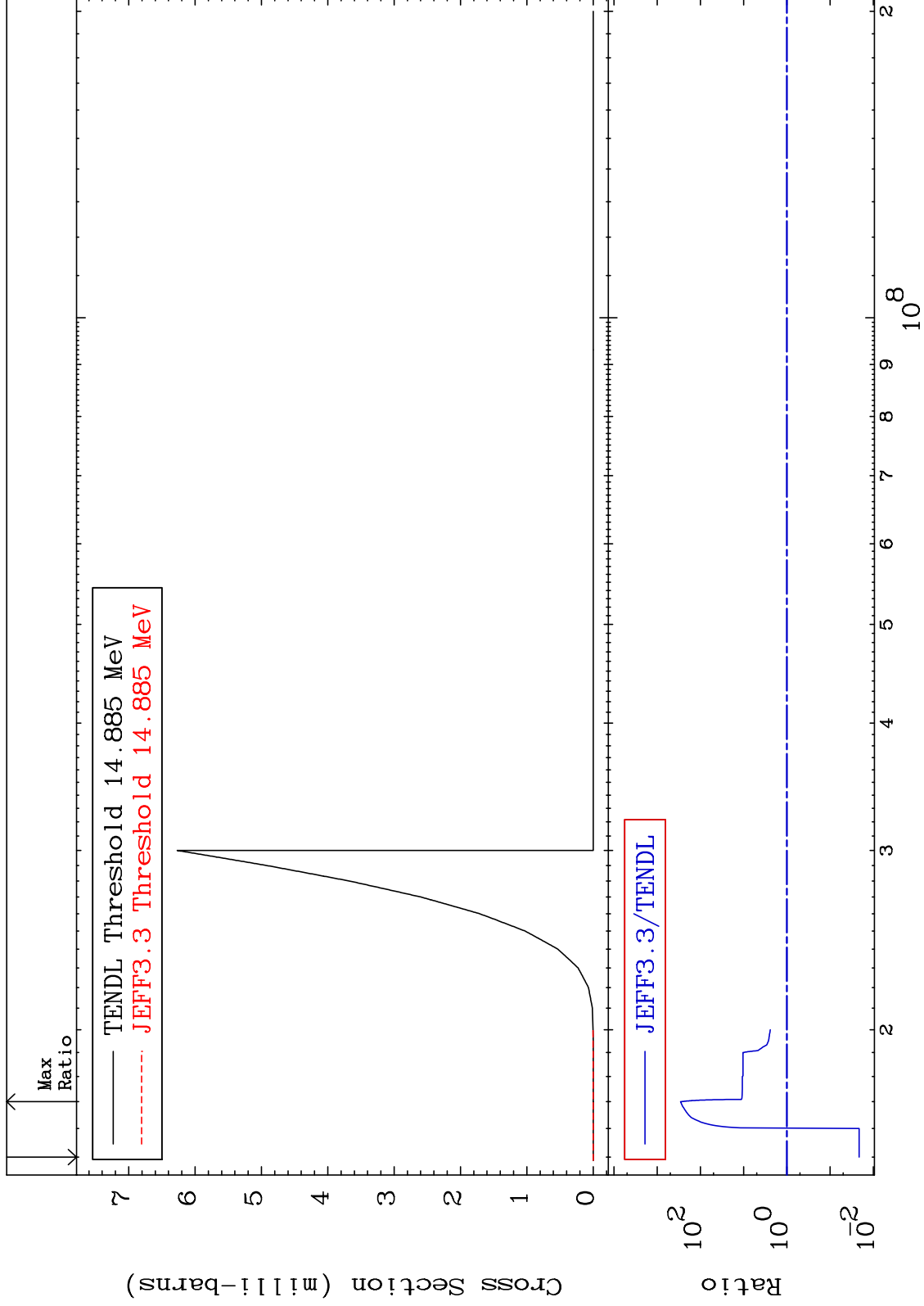
72-Hf-180

MAT 7243

(n,2n) p:71-Lu-178g

72-Hf-180

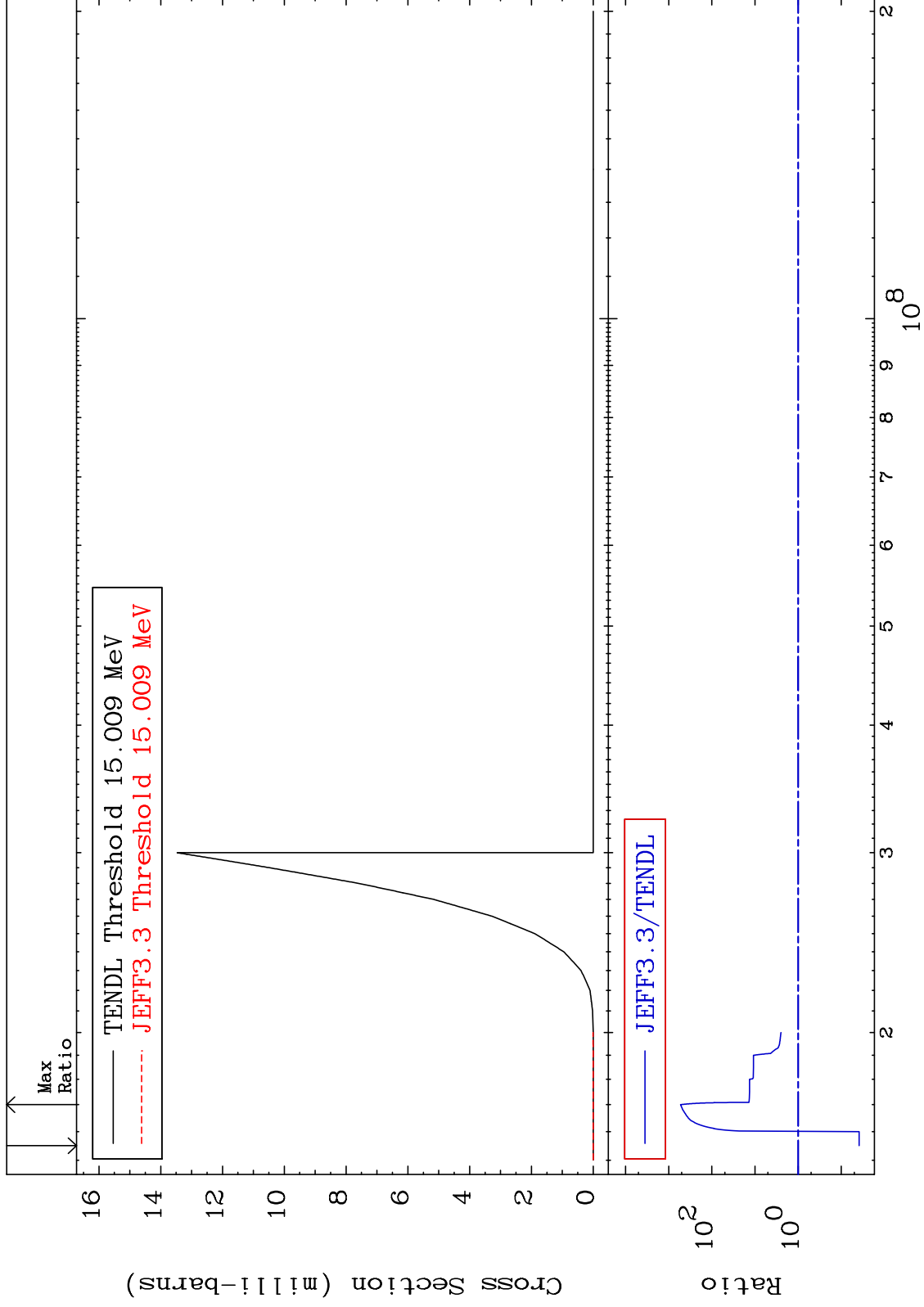
Radionuclide Production Cross Section -97.87 To 9999. %



78

Incident Energy (eV)

72-Hf-180

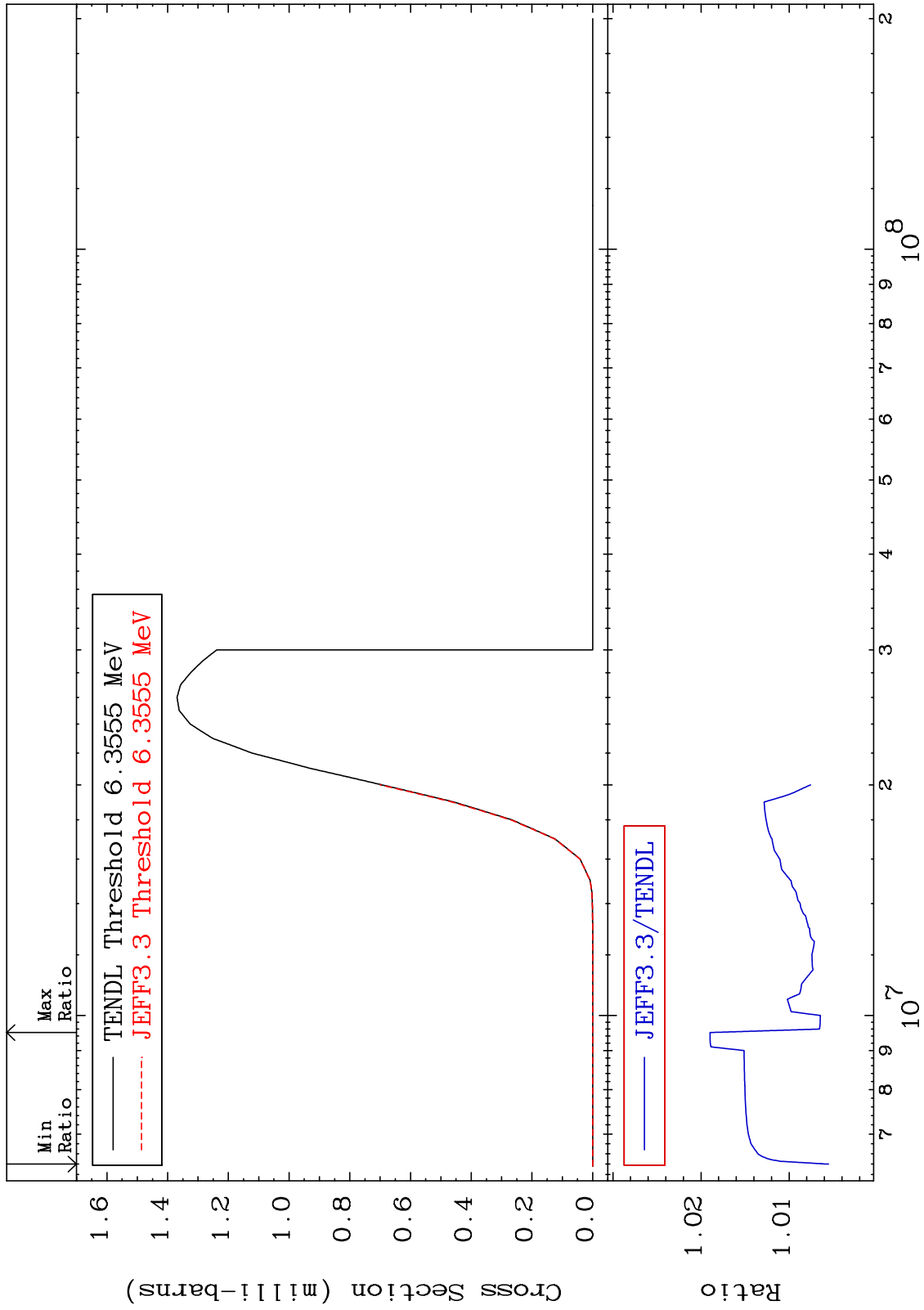


MAT 7243

(n, t): 71-Lu-178g

72-Hf-180

Radionuclide Production Cross Section 0.554 To 1.898 %



80

Incident Energy (eV)

72-Hf-180

MAT 7243

(n, t): 71-Lu-178m3

72-Hf-180

Radionuclide Production Cross Section -3.811 To 0.576 %

