

Program Complot
(Version 2018-1)

by

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(Present Contact Information)

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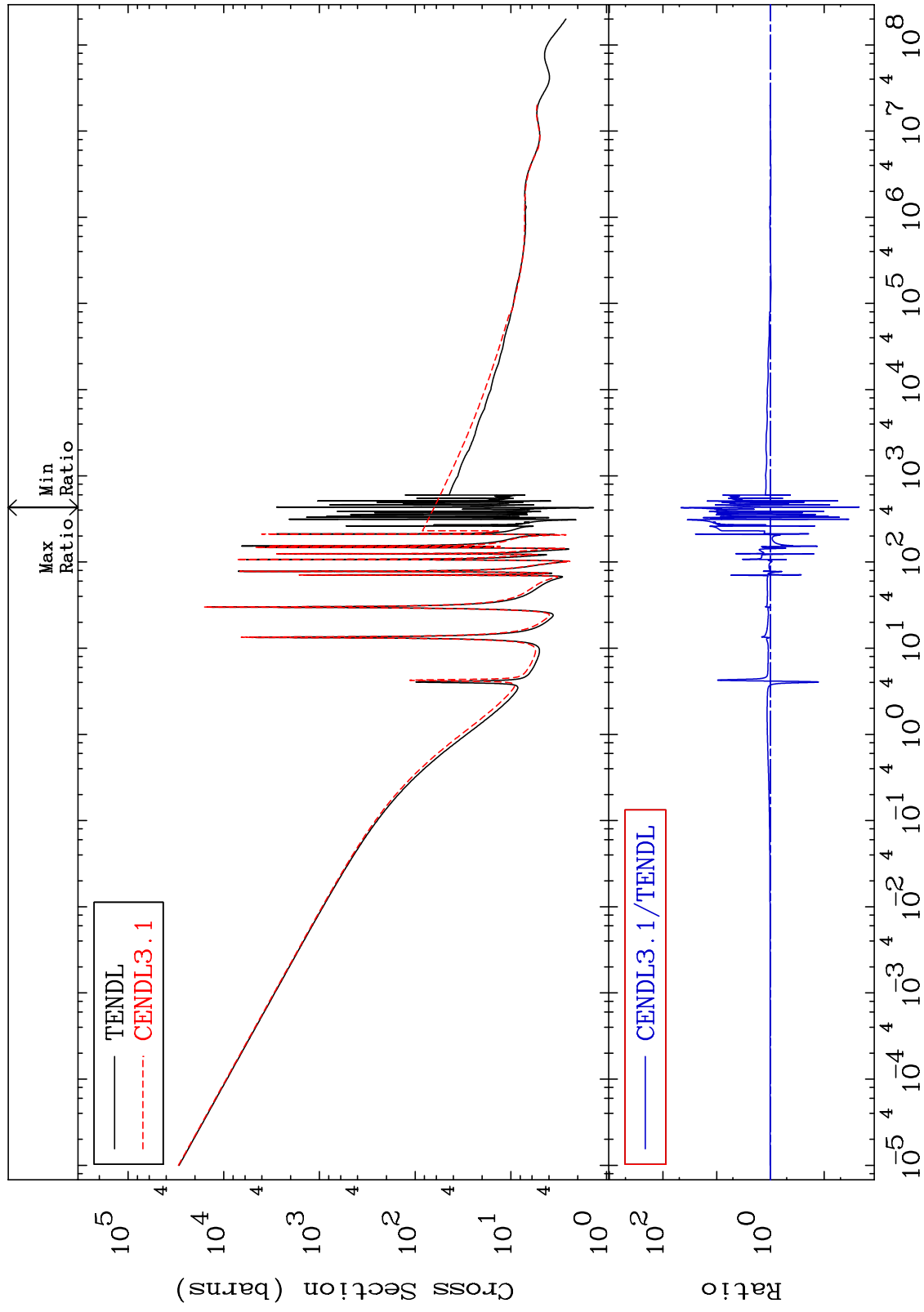
U.S.A.

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Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7225 72-Hf-174
Total -97.75 To 4554. %
Cross Section



1 72-Hf-174
Incident Energy (eV)

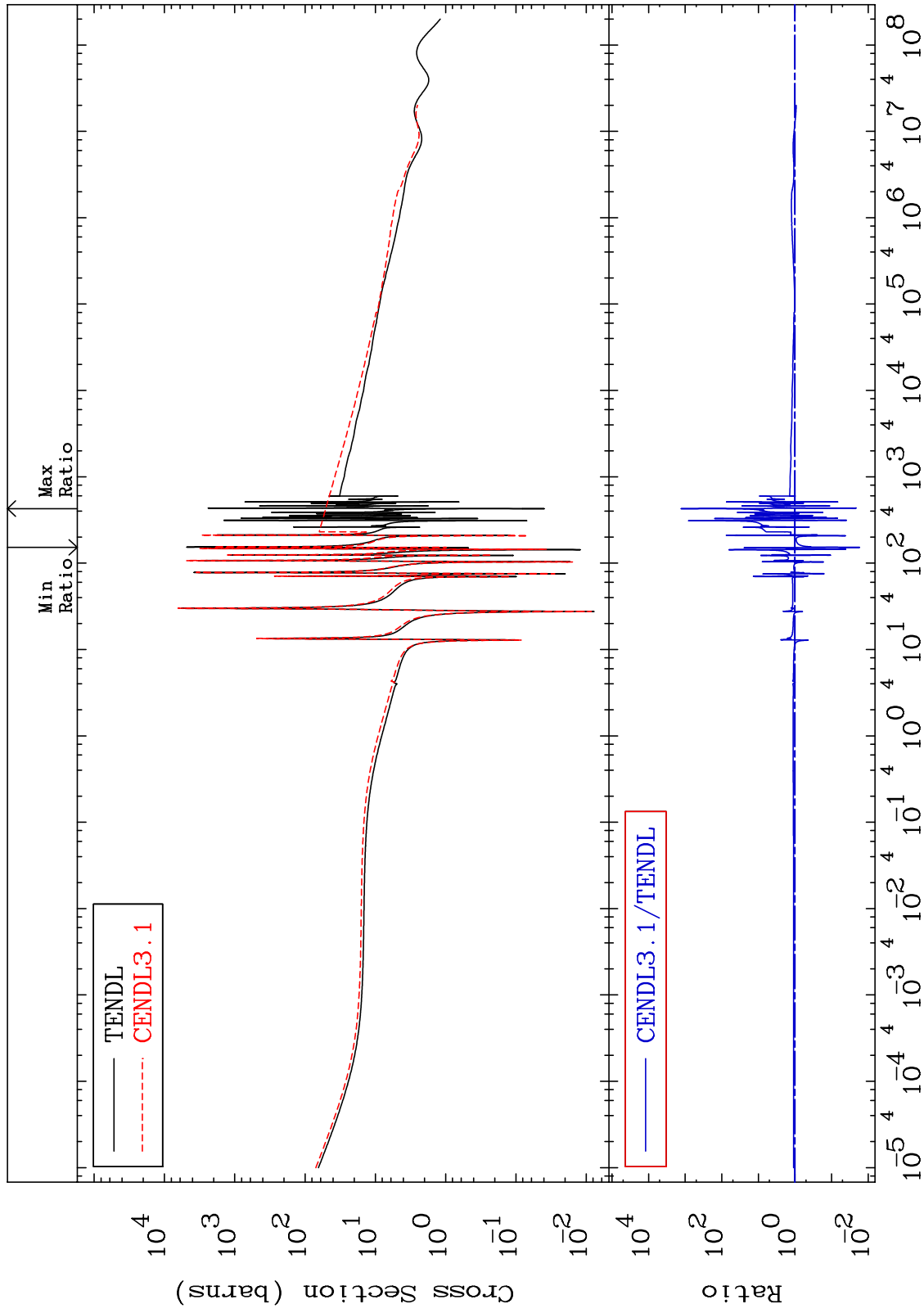
MAT 7225

Elastic

72-Hf-174

Cross Section

-98.30 To 9999. %



MAT 7225 72-Hf-174 -54.34 To 93.98 %

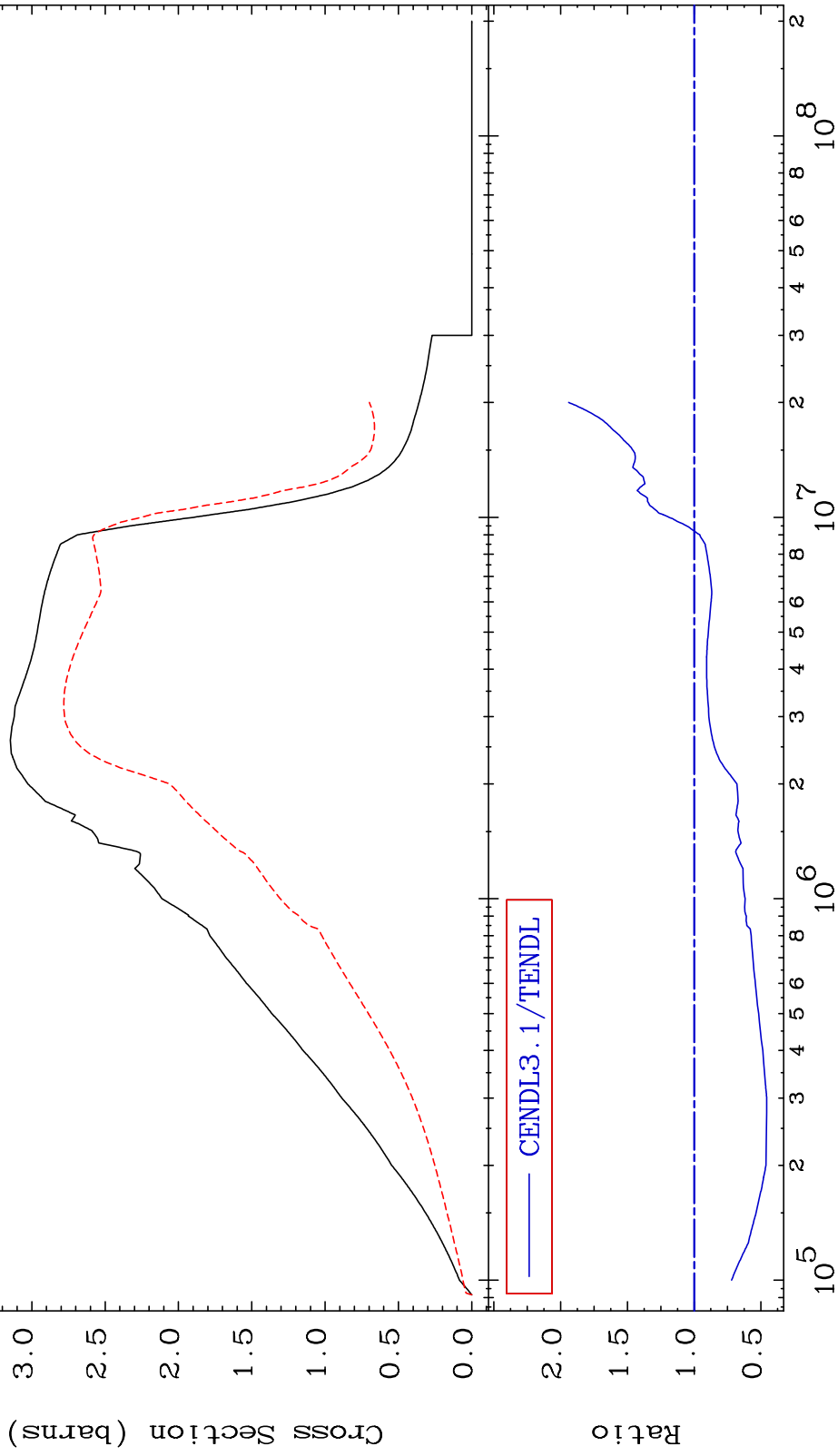
Inelastic Cross Section

Min Ratio

Max Ratio

— TENDL Threshold 91.513 keV
- - - CENDL3.1 Threshold 91.528 keV

— CENDL3.1/TENDL



72-Hf-174

Incident Energy (eV)

3

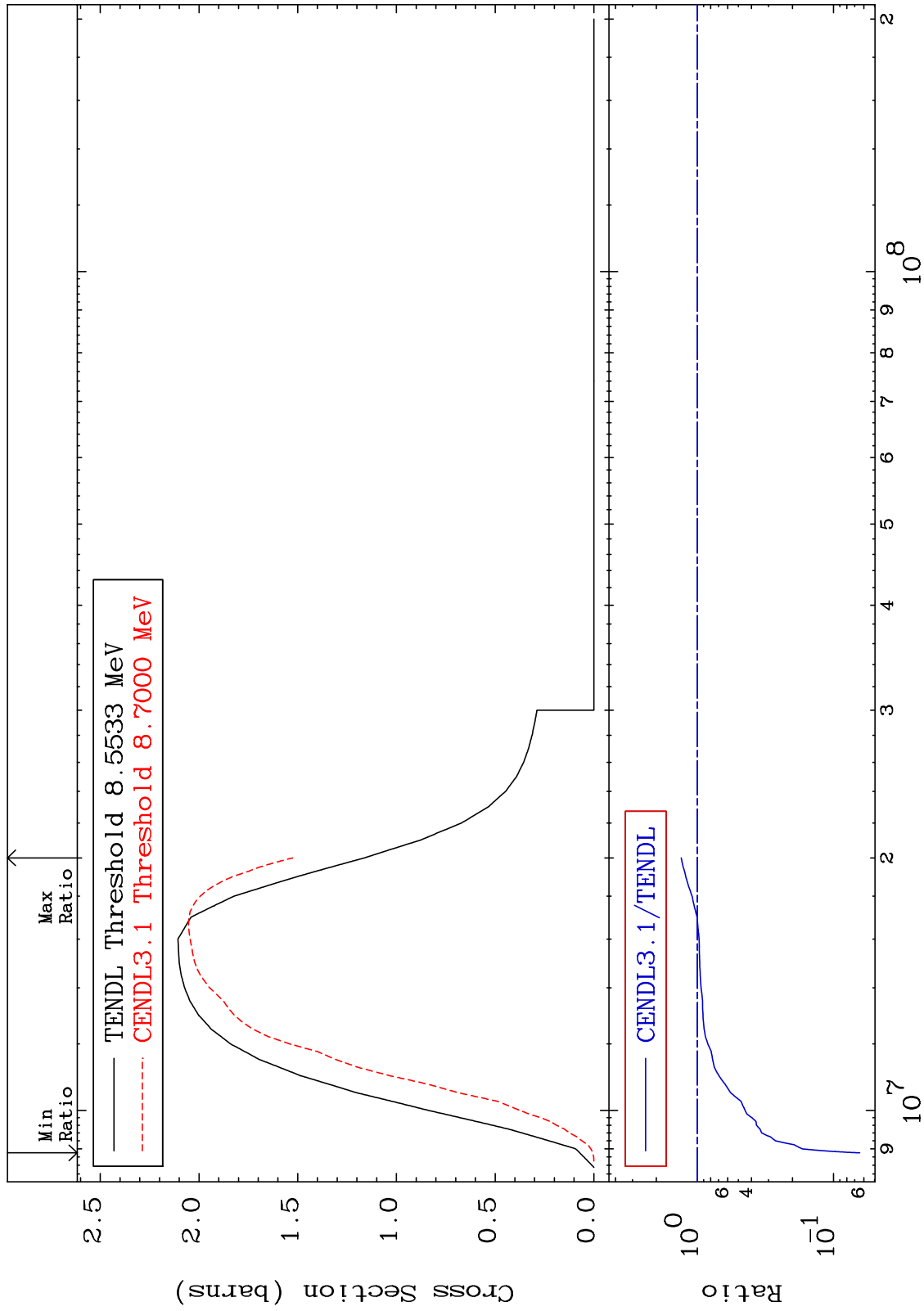
MAT 7225

(n,2n)

72-Hf-174

Cross Section

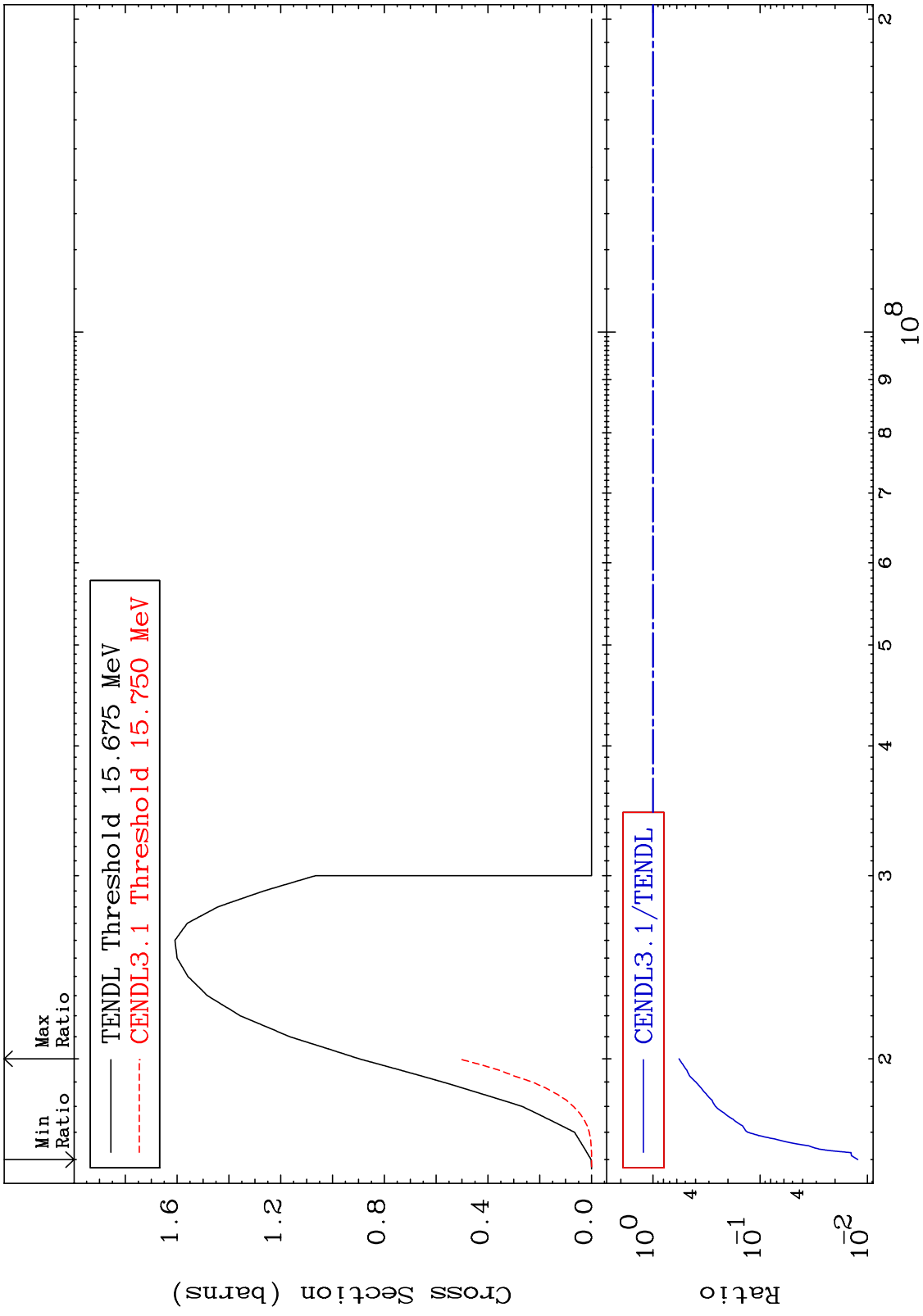
-93.58 To 31.37 %



4

Incident Energy (eV)

72-Hf-174



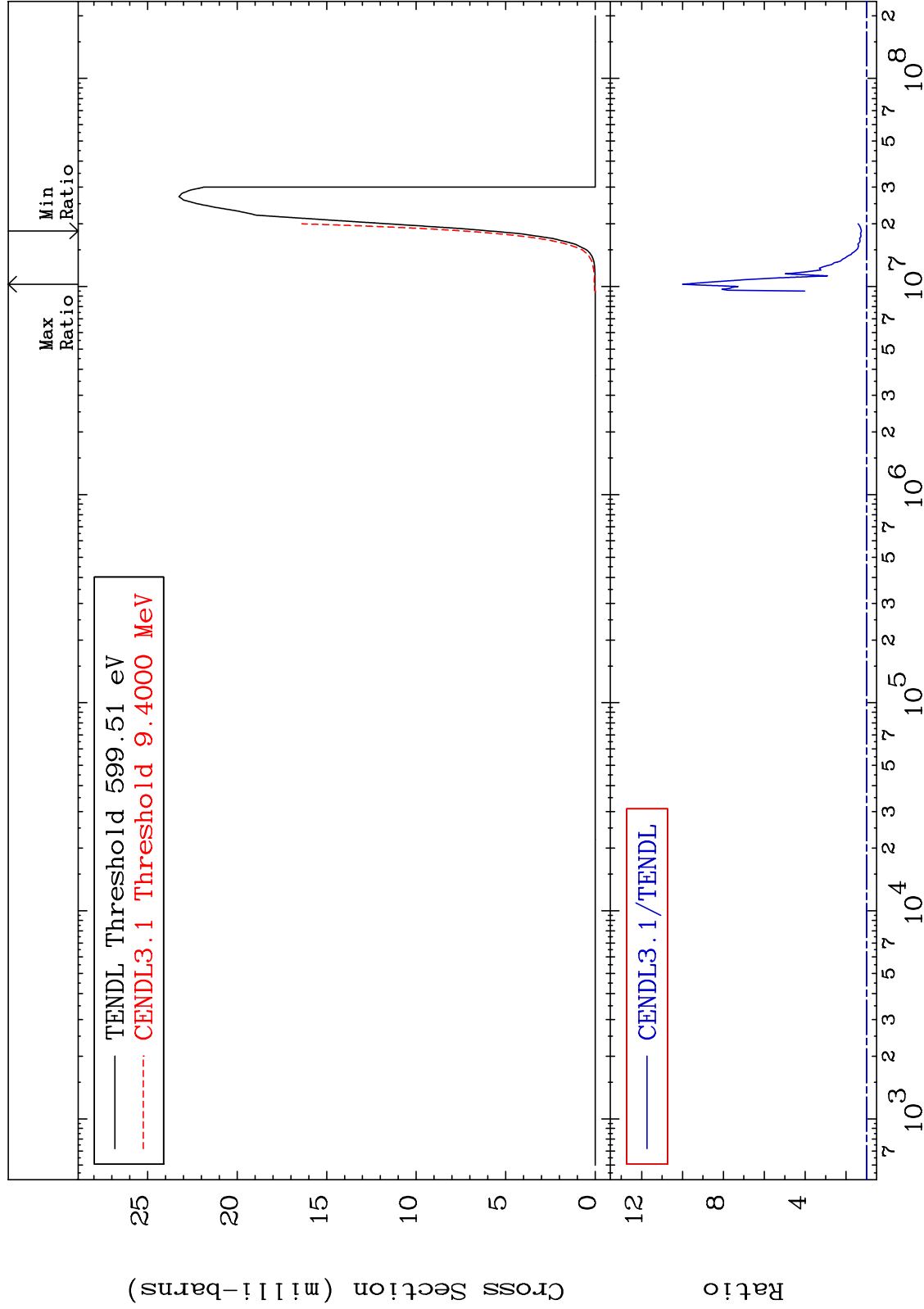
MAT 7225

(n, n') α

Cross Section

72-Hf-174

25.24 To 899.5 %

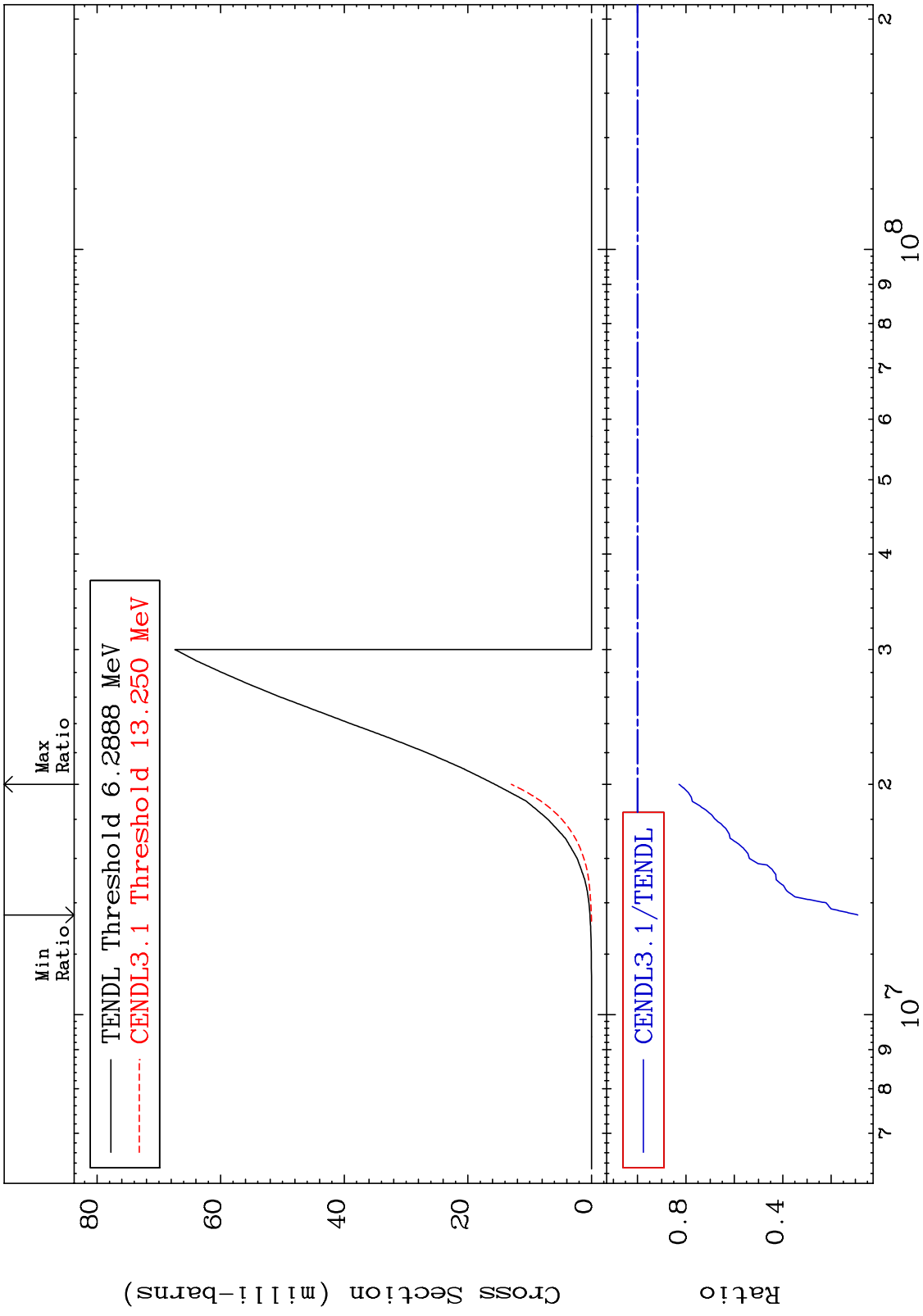


6

Incident Energy (eV)

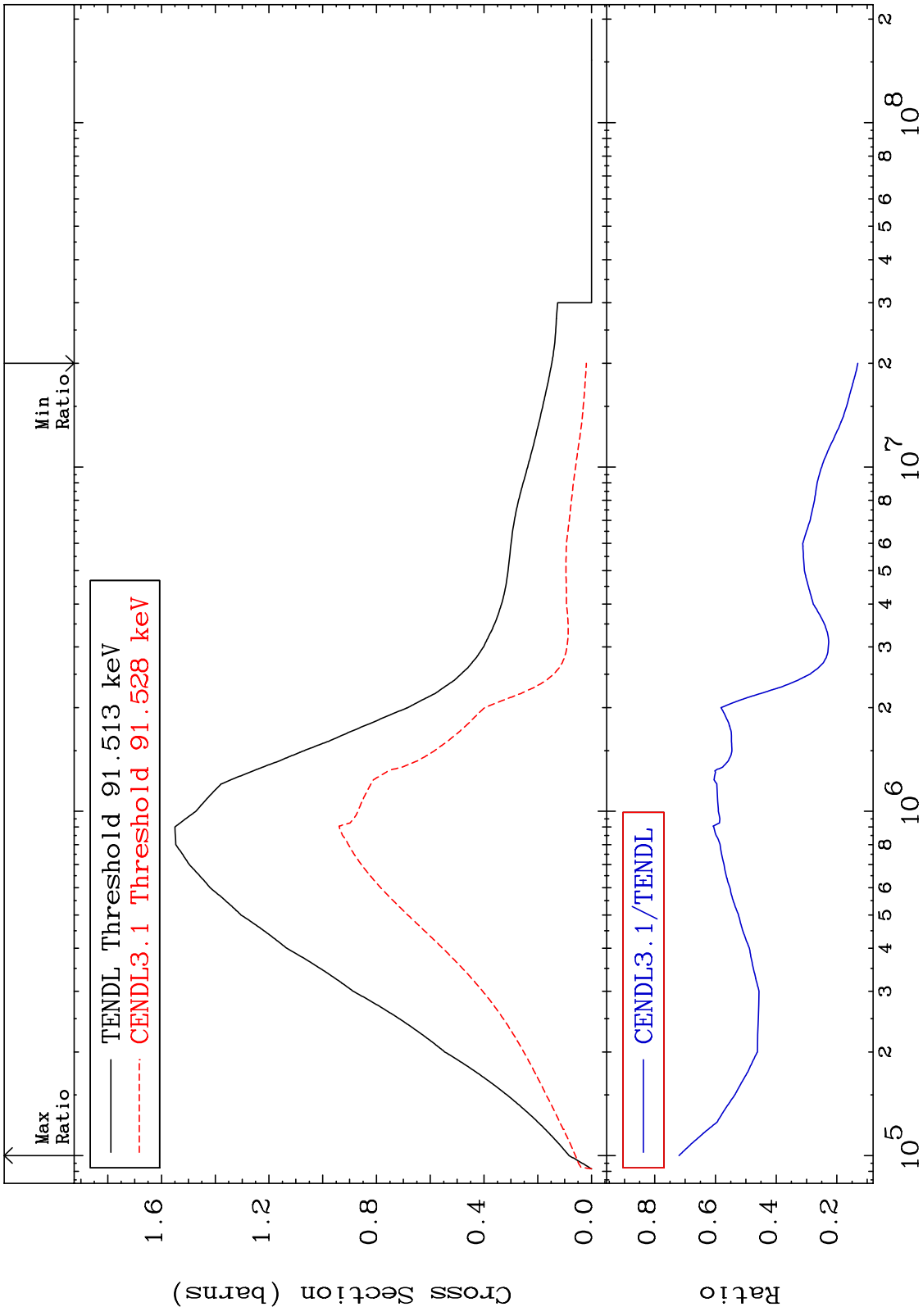
72-Hf-174

MAT 7225 $(n, n') p$ 72-Hf-174
 Cross Section -91.01 To -17.16%



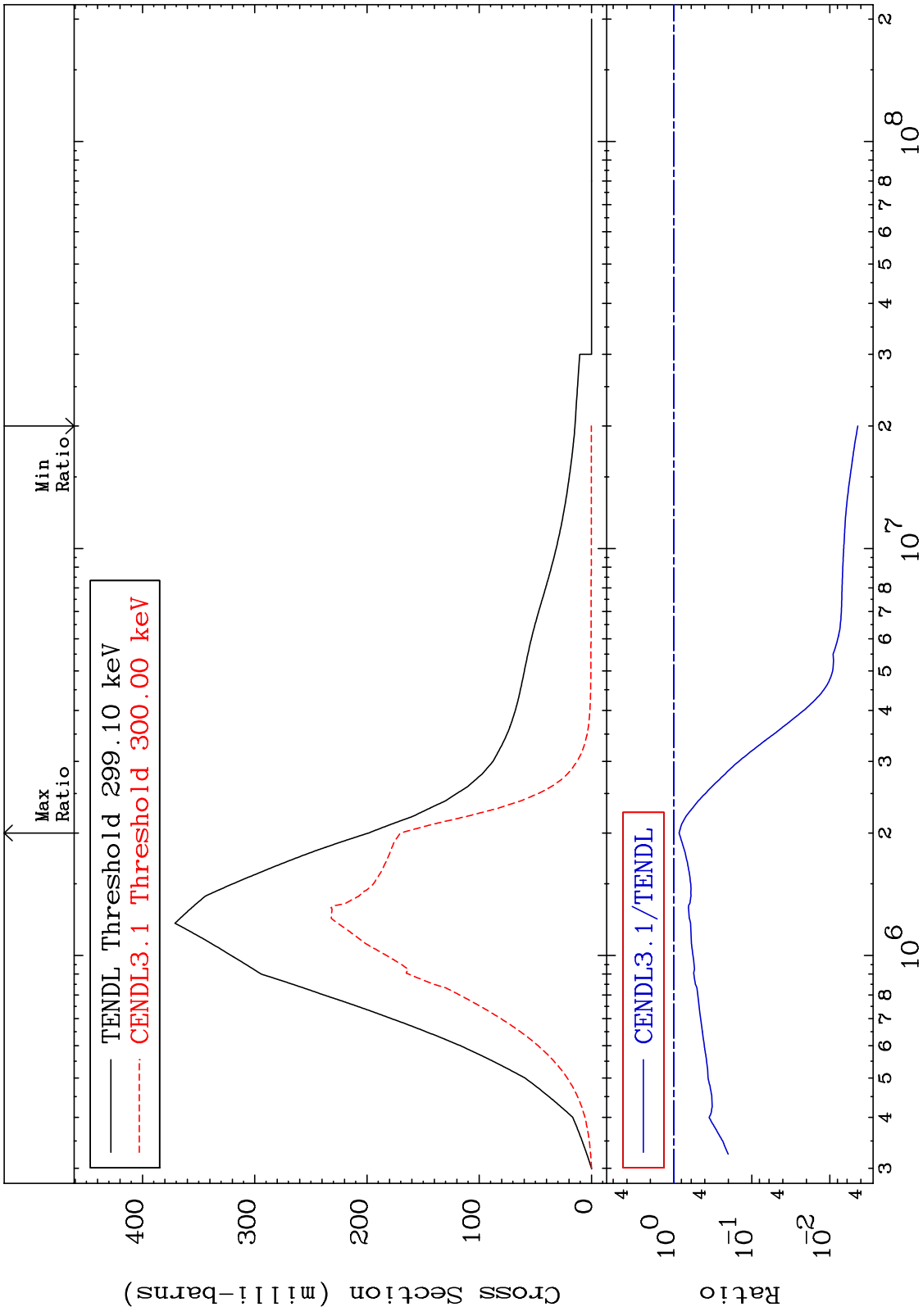
72-Hf-174

MAT 7225 MT= 51 (n,n') Level Cross Section 72-Hf-174 -86.90 To -27.98%

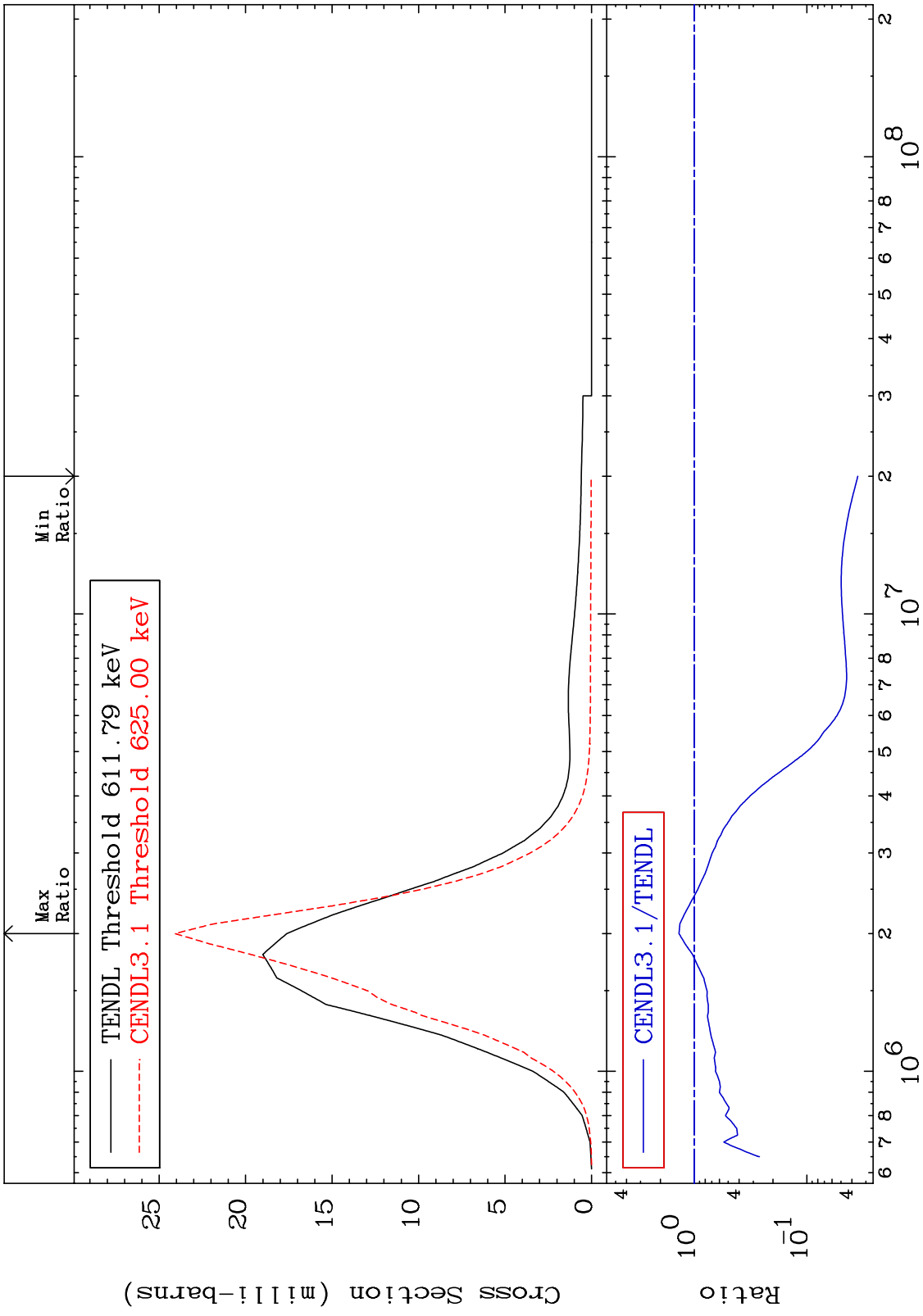


8 10⁵ 10⁶ 10⁷ 10⁸ 72-Hf-174

MAT 7225 MT= 52 (n,n') Level Cross Section 72-Hf-174 -99.56 To -14.28%

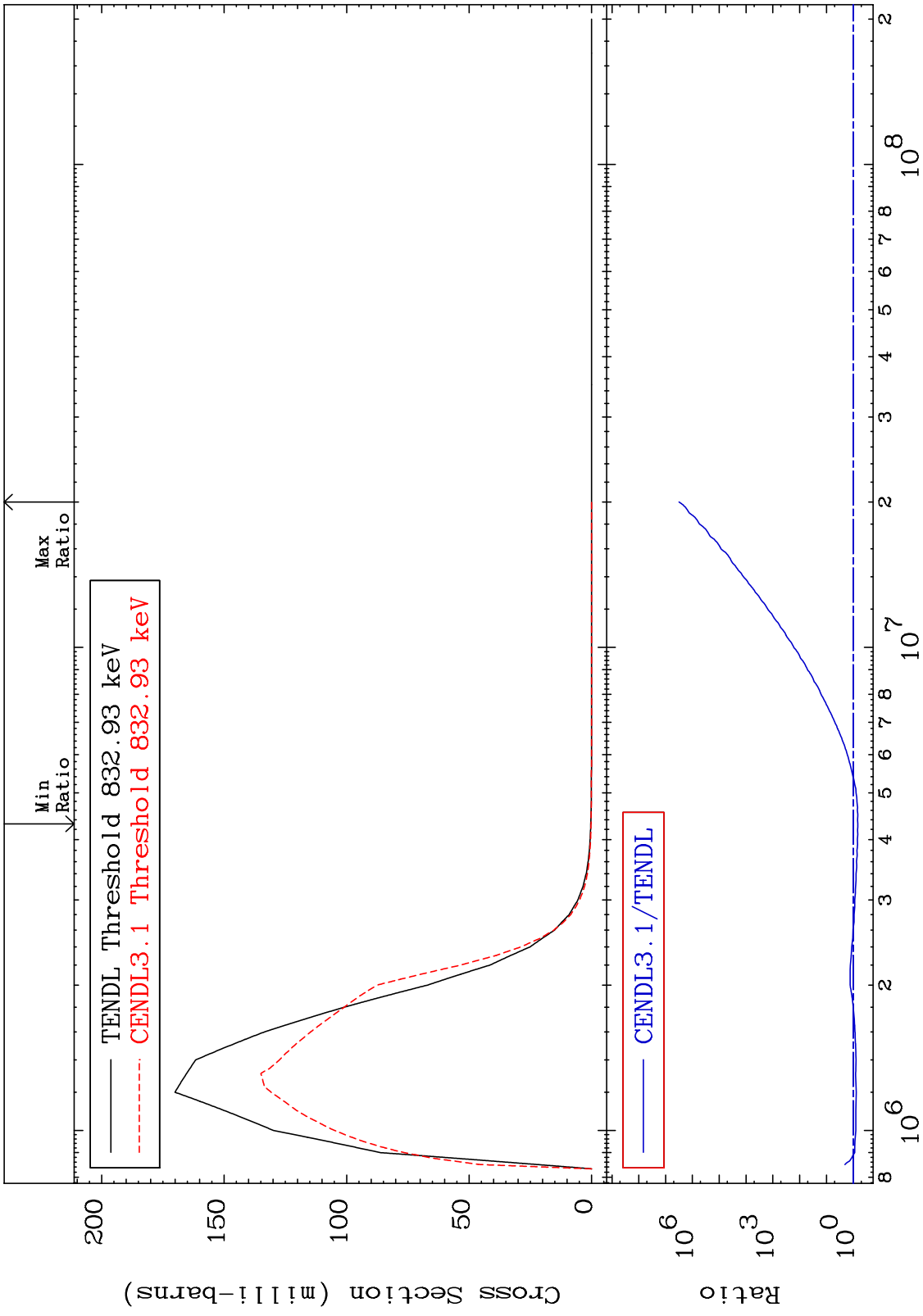


MAT 7225 MT= 53 (n,n') Level Cross Section 72-Hf-174 -96.47 To 36.73 %

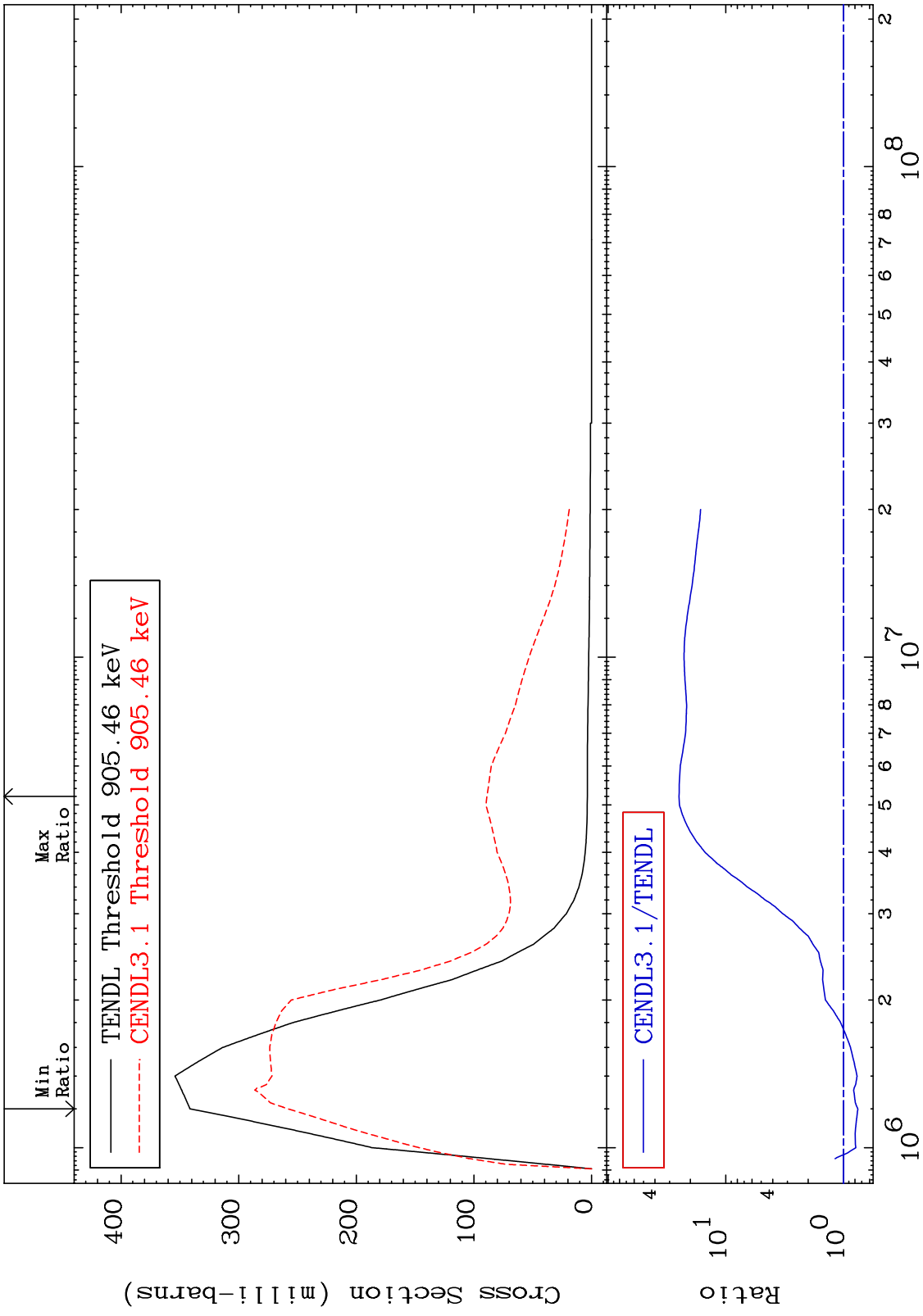


10 Incident Energy (eV) 72-Hf-174

MAT 7225 MT= 54 (n,n') Level Cross Section 72-Hf-174 -32.39 To 9999. %

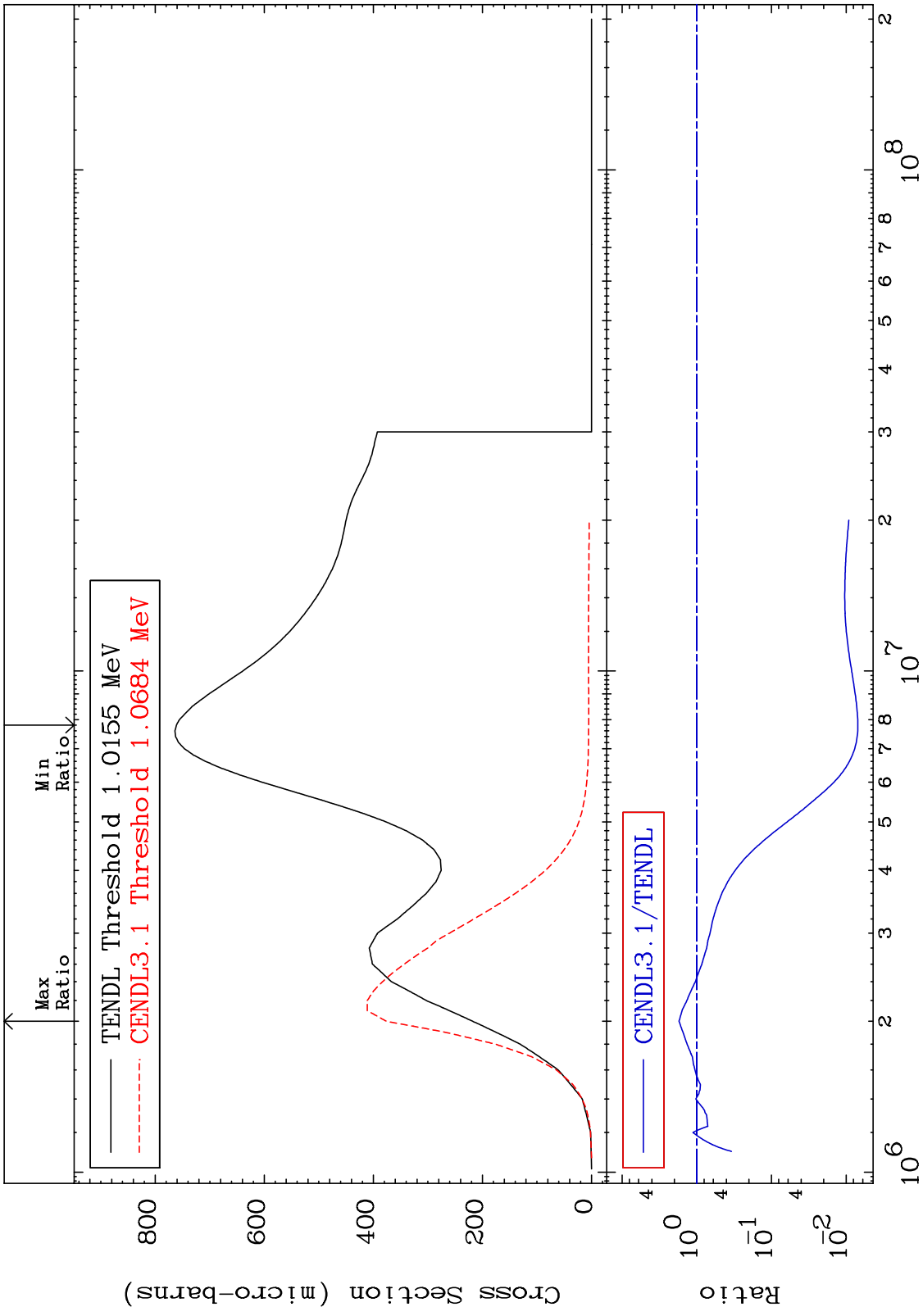


MAT 7225 MT= 55 (n,n') Level Cross Section 72-Hf-174 -24.43 To 2398. %



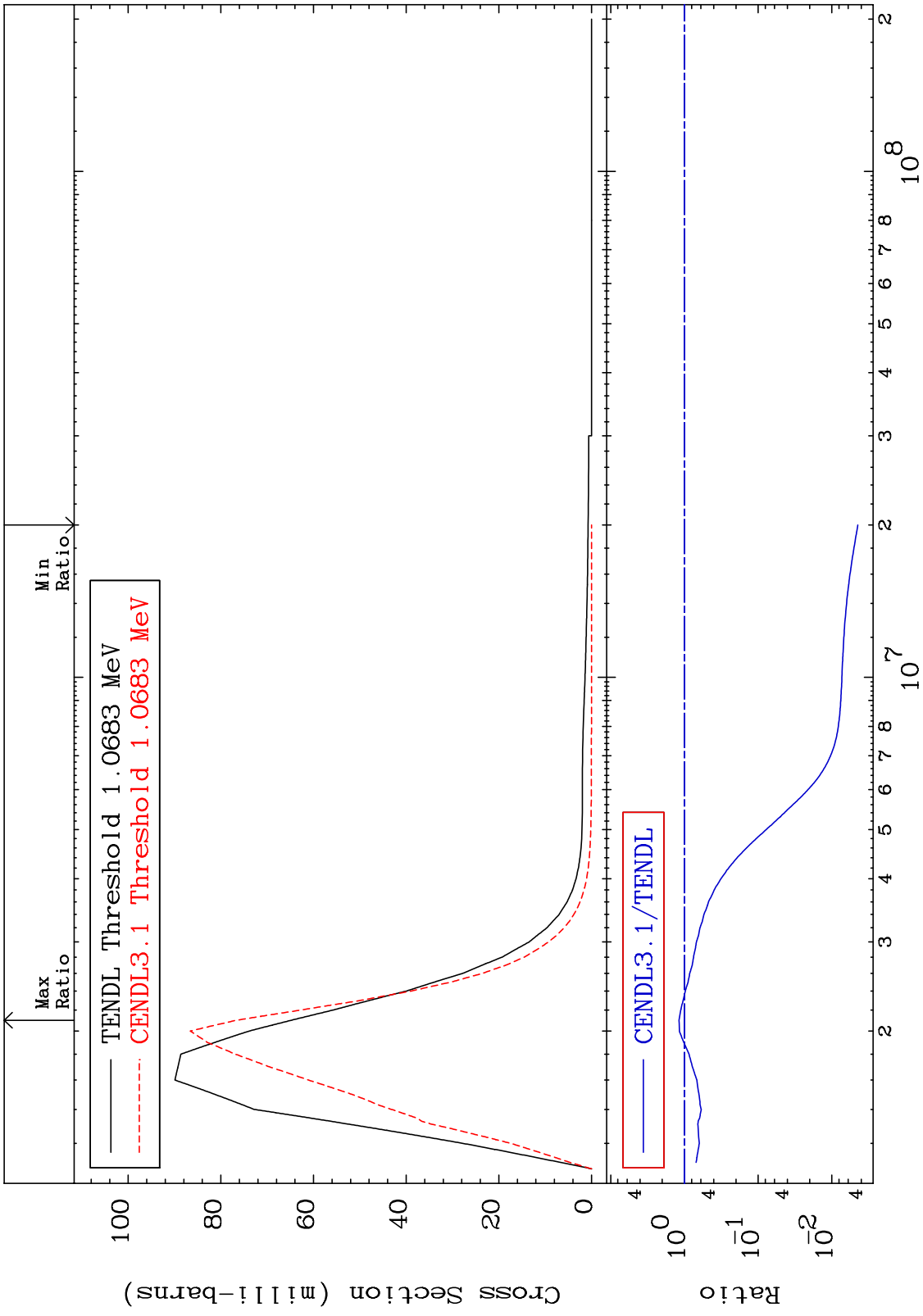
12 Incident Energy (eV) 72-Hf-174

MAT 7225 MT= 56 (n,n') Level Cross Section 72-Hf-174
 -99.30 To 72.68 %

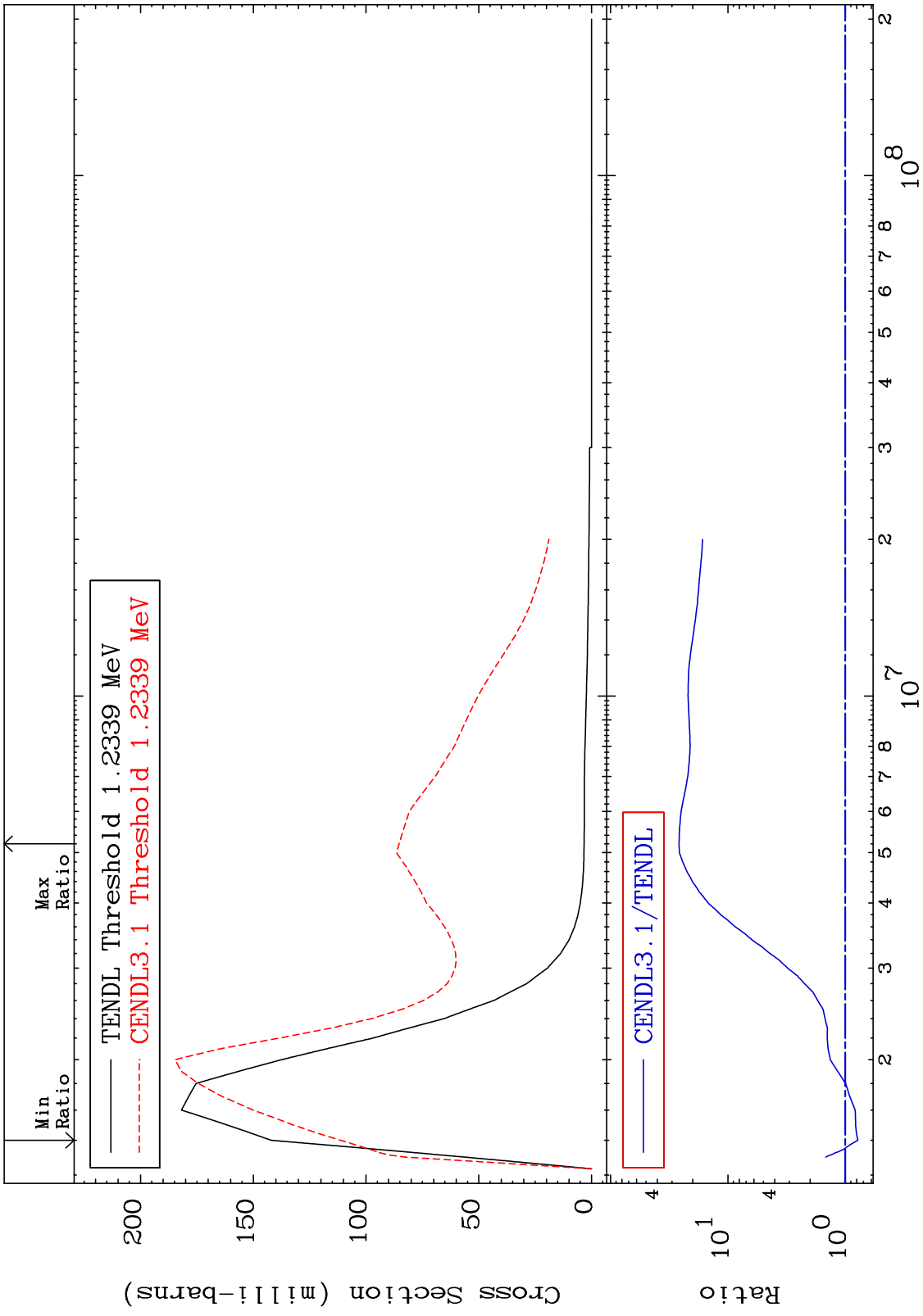


13 Incident Energy (eV) 72-Hf-174

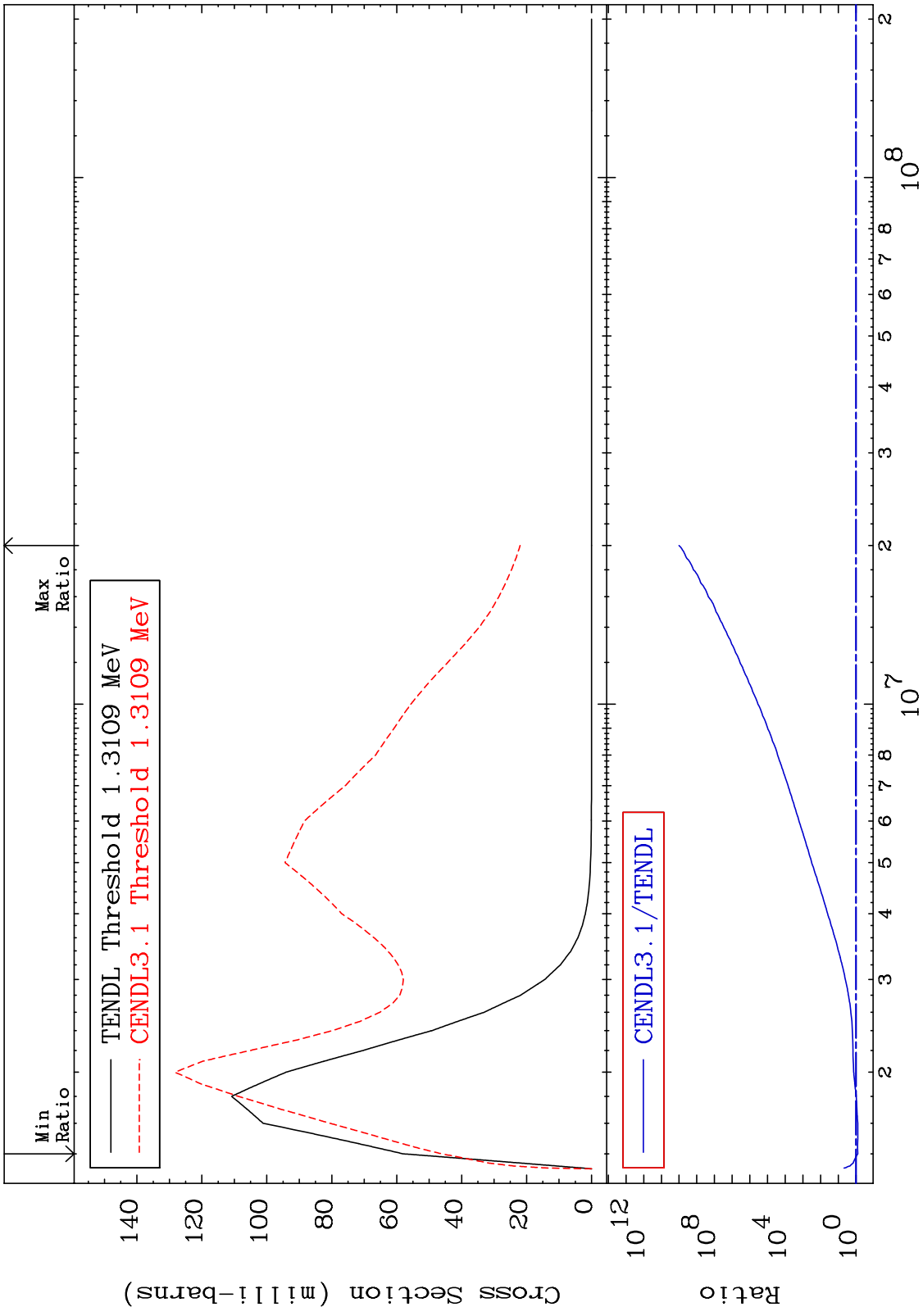
MAT 7225 MT= 57 (n,n') Level Cross Section 72-Hf-174
 -99.56 To 18.33 %



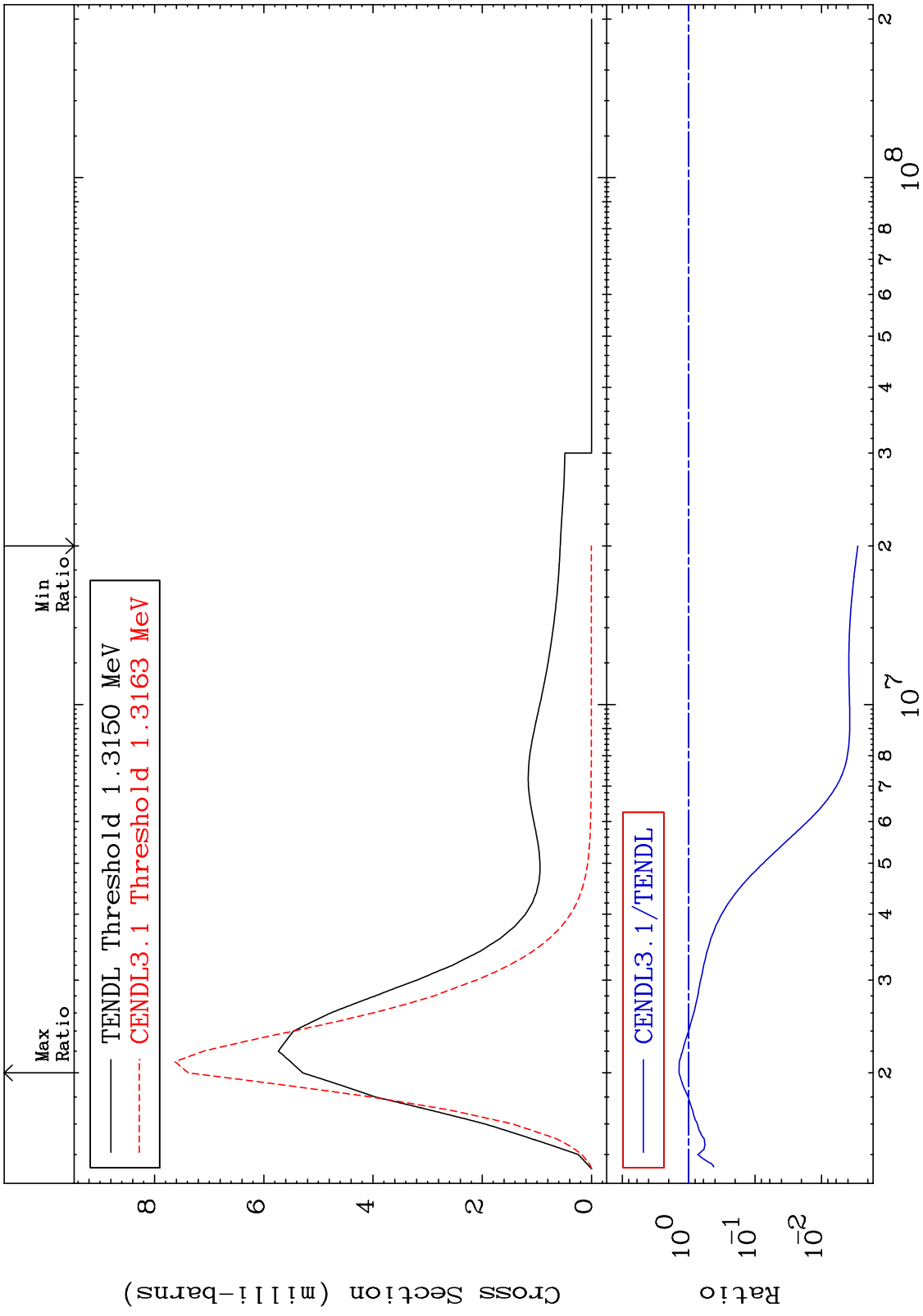
MAT 7225 MT= 58 (n,n') Level Cross Section 72-Hf-174 -21.67 To 2512. %



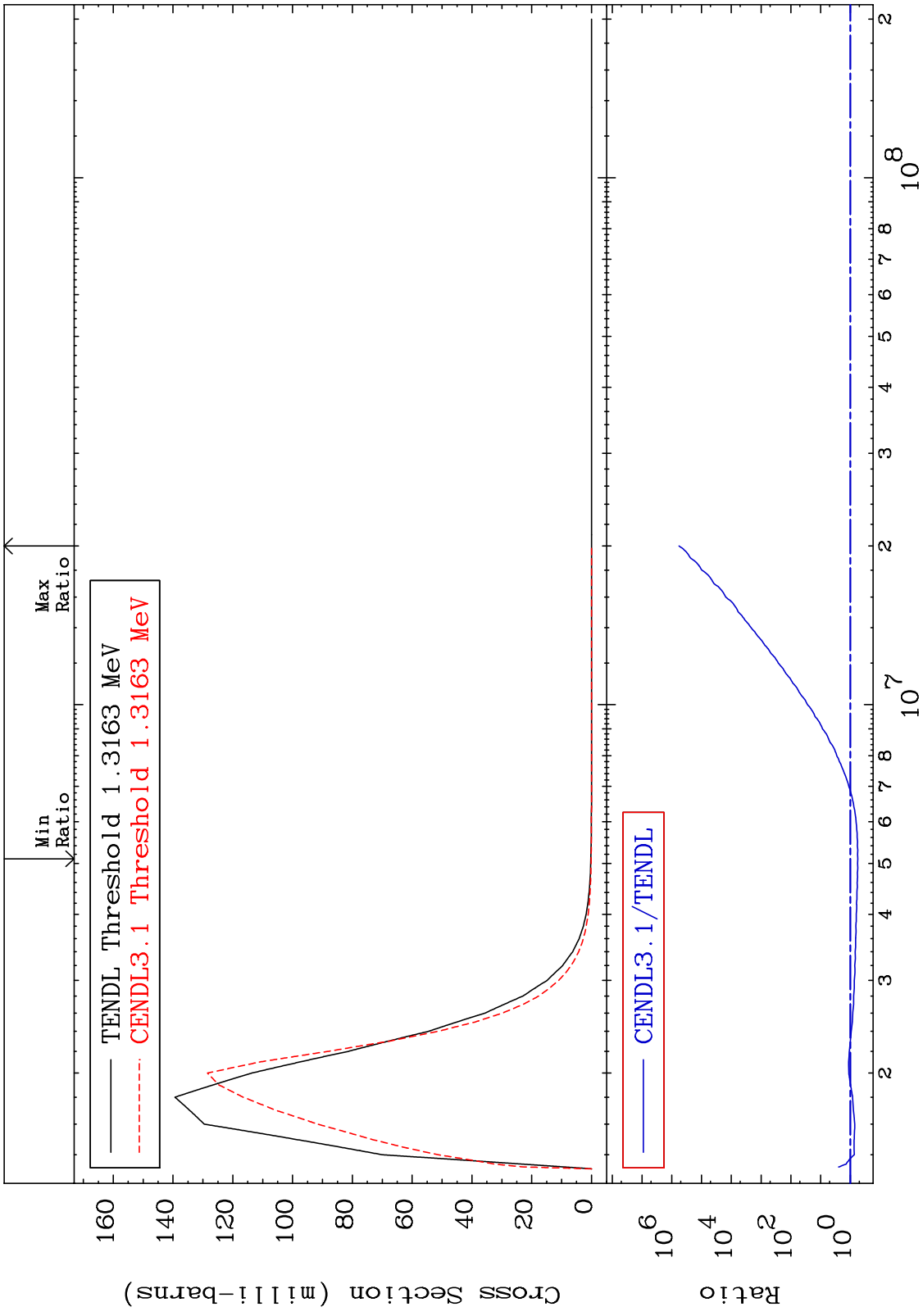
MAT 7225 MT= 59 (n,n') Level Cross Section 72-Hf-174 -20.58 To 9999. %



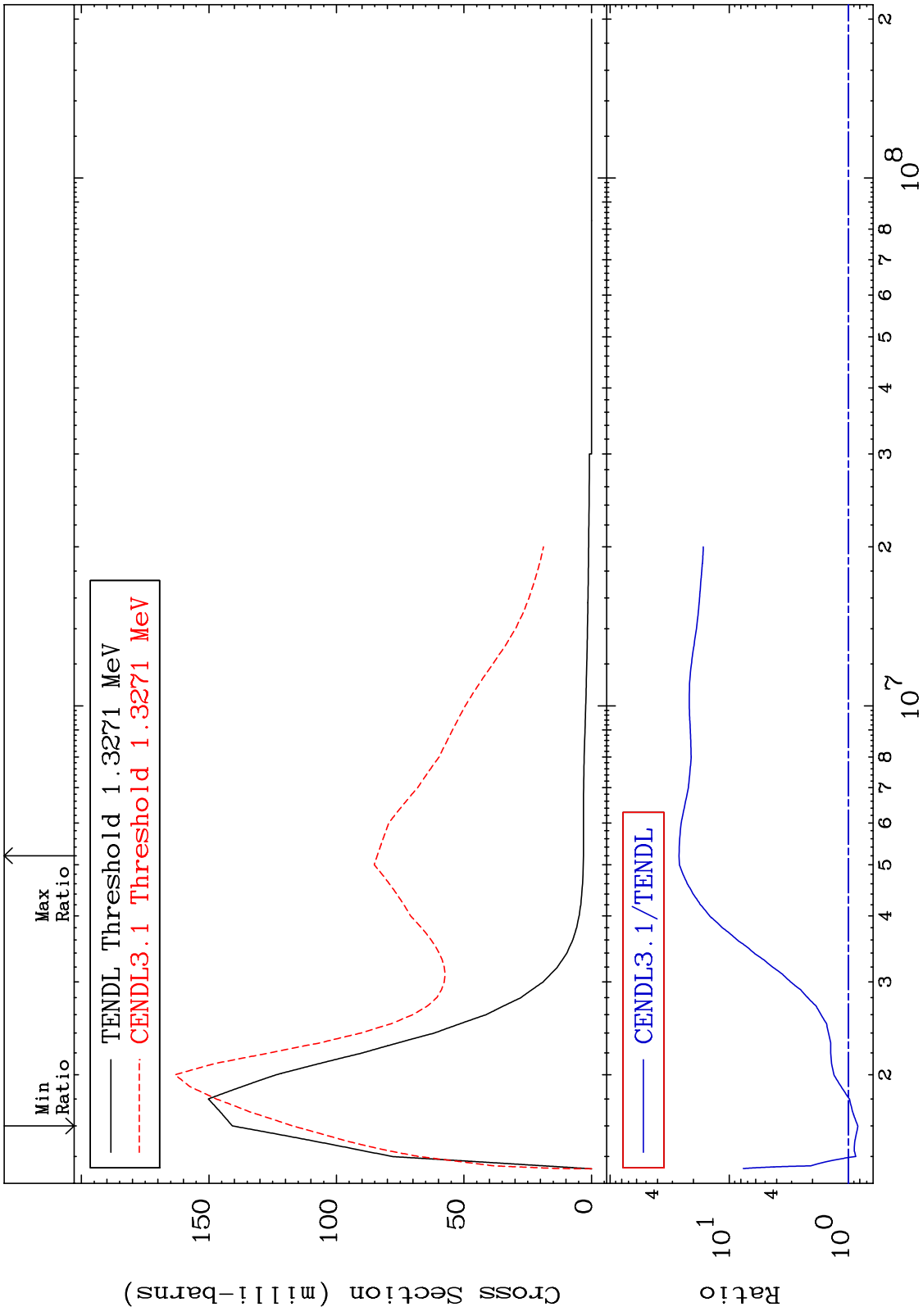
MAT 7225 MT= 60 (n,n') Level Cross Section 72-Hf-174 -99.72 To 39.60 %



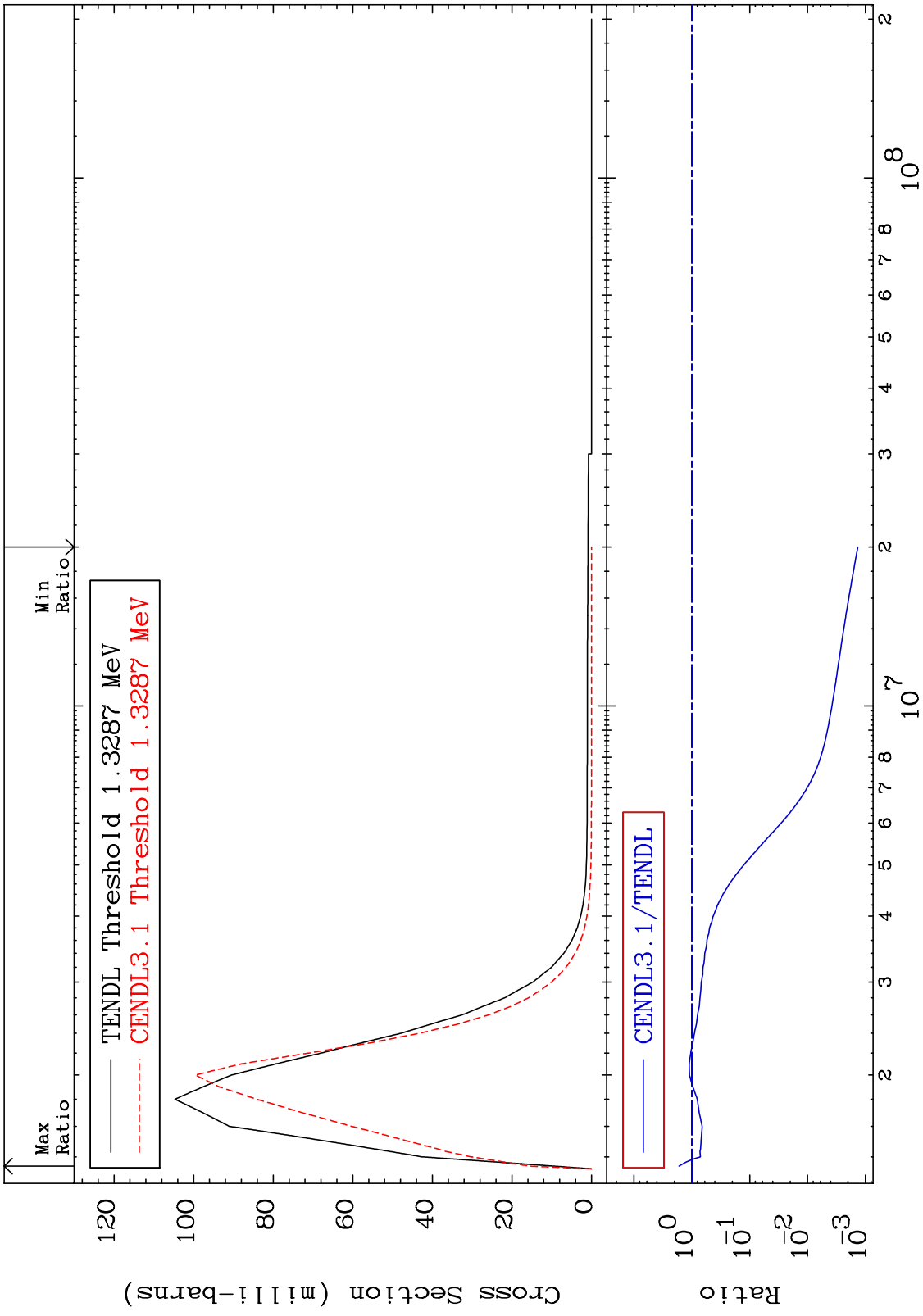
MAT 7225 MT= 61 (n,n') Level Cross Section 72-Hf-174
 -44.01 To 9999. %



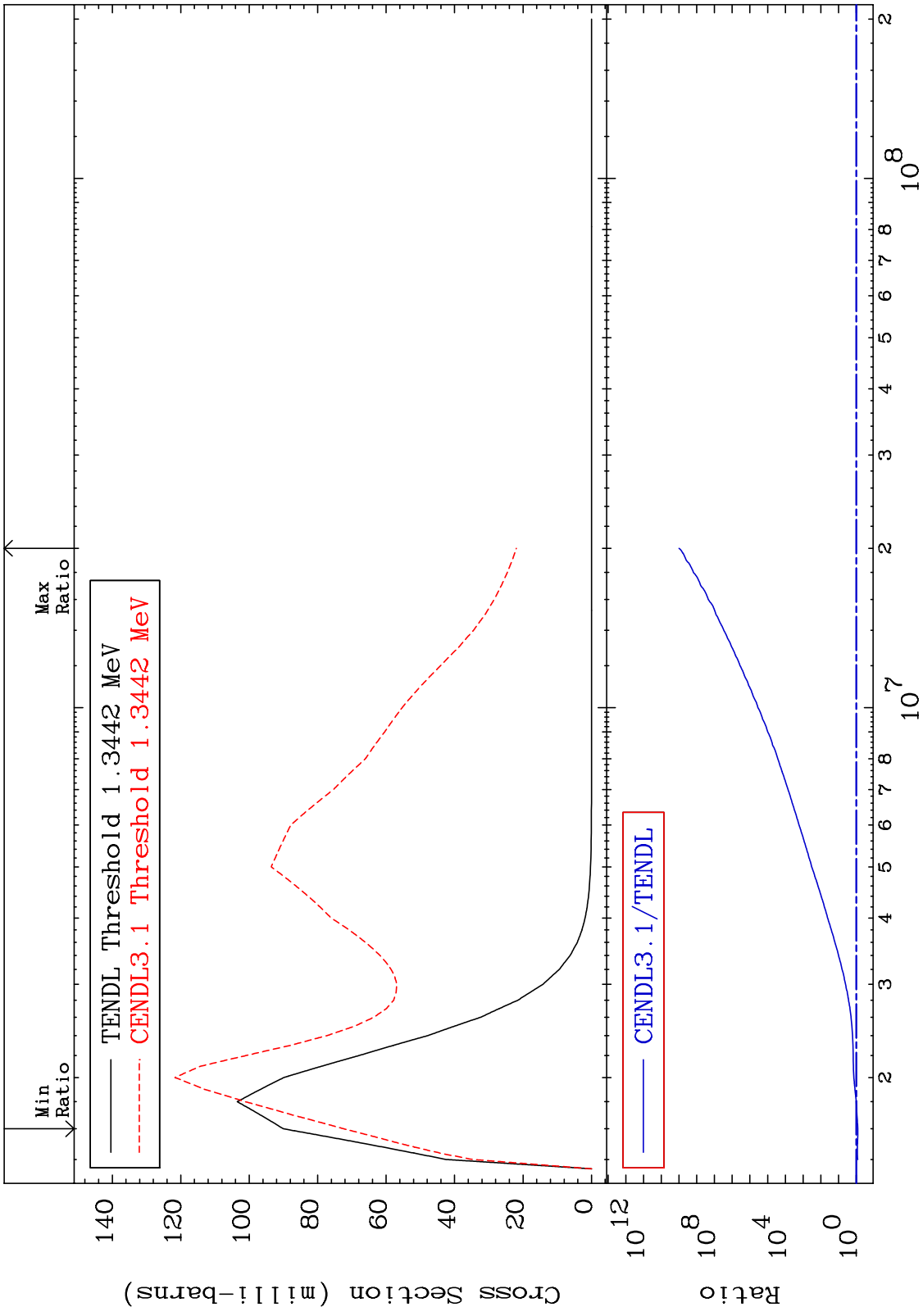
MAT 7225 MT= 62 (n,n') Level Cross Section 72-Hf-174
 -16.82 To 2537. %



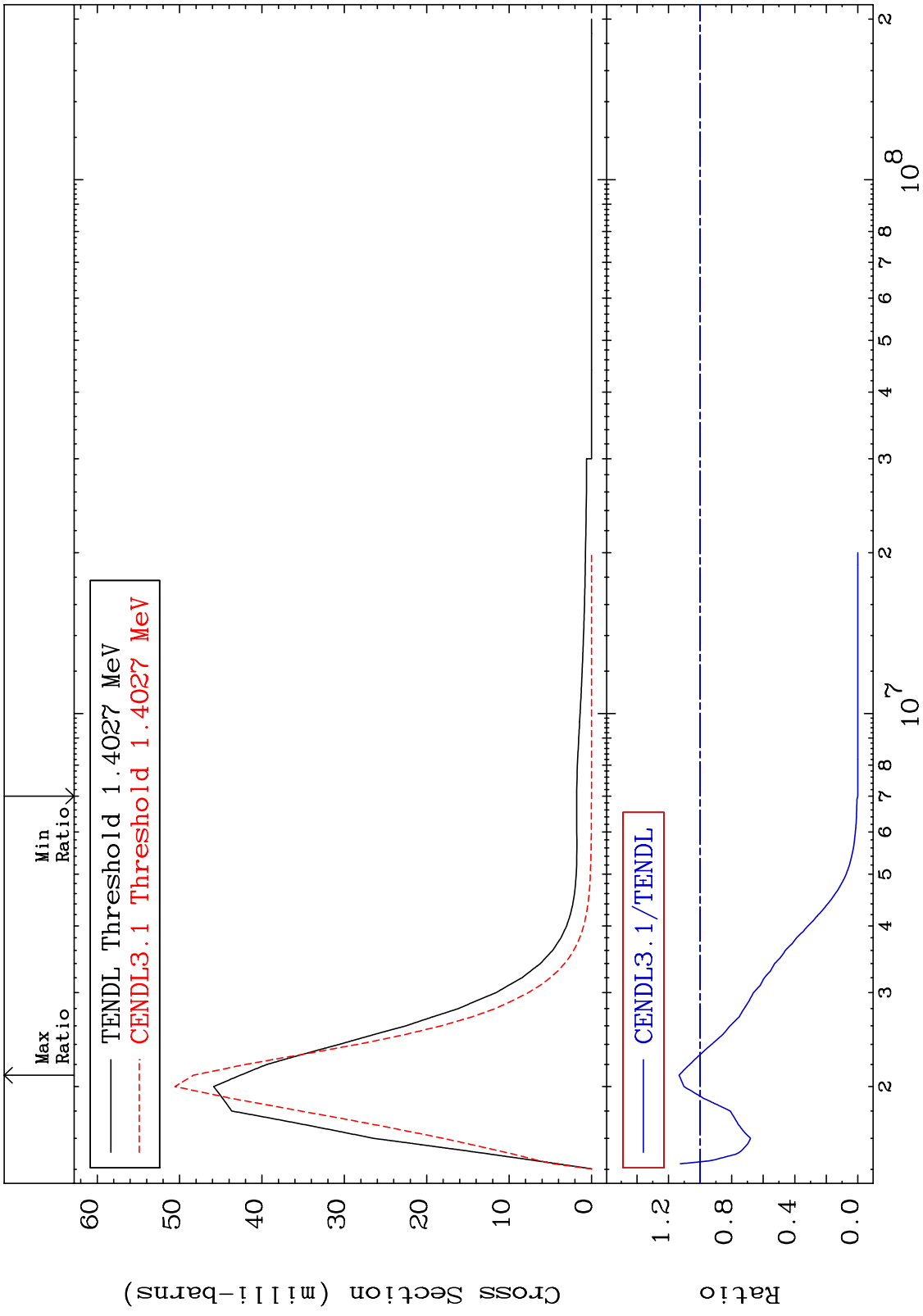
MAT 7225 MT= 63 (n,n') Level Cross Section 72-Hf-174 -99.86 To 66.26 %



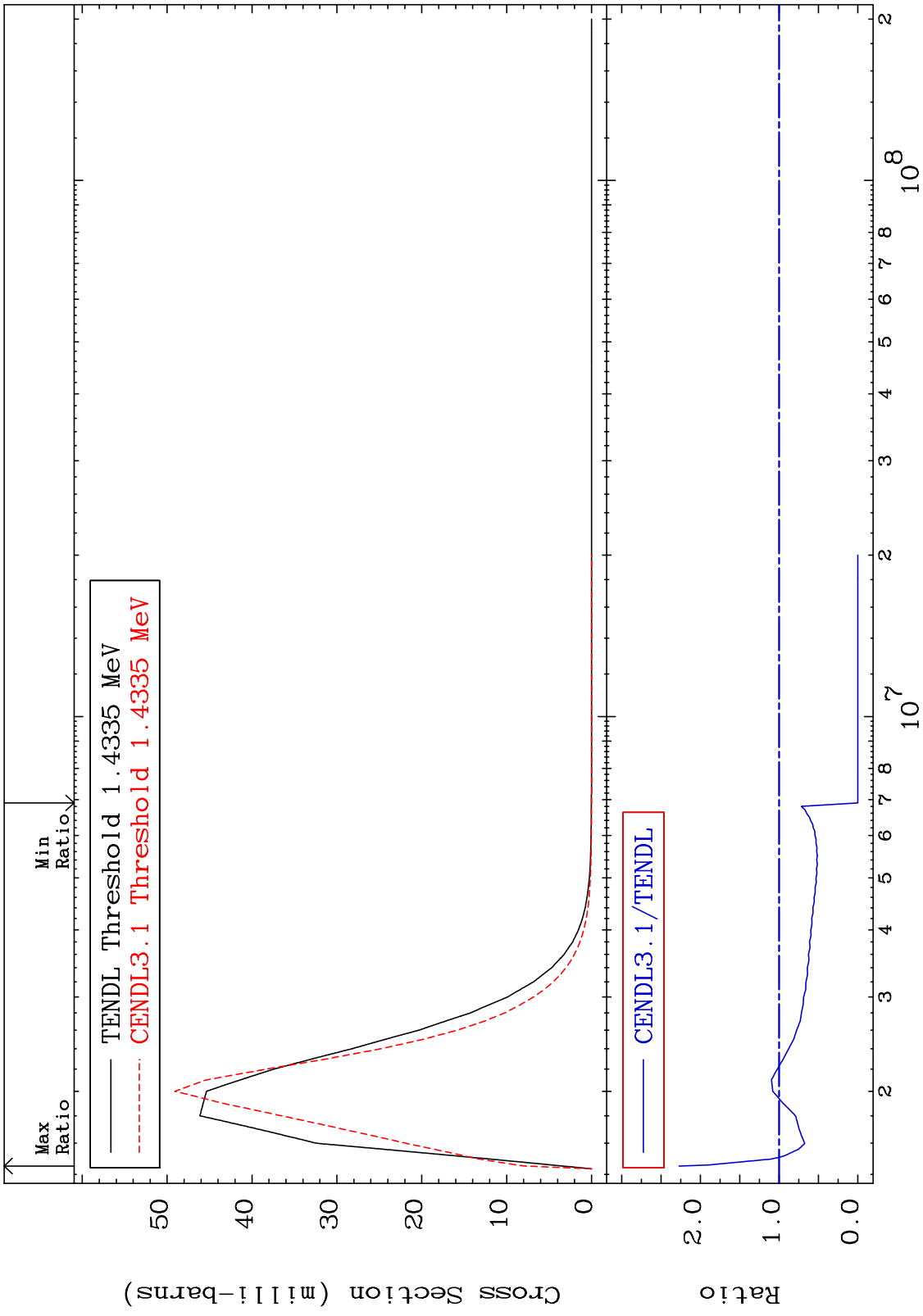
MAT 7225 MT= 64 (n,n') Level Cross Section 72-Hf-174
 -19.62 To 9999. %



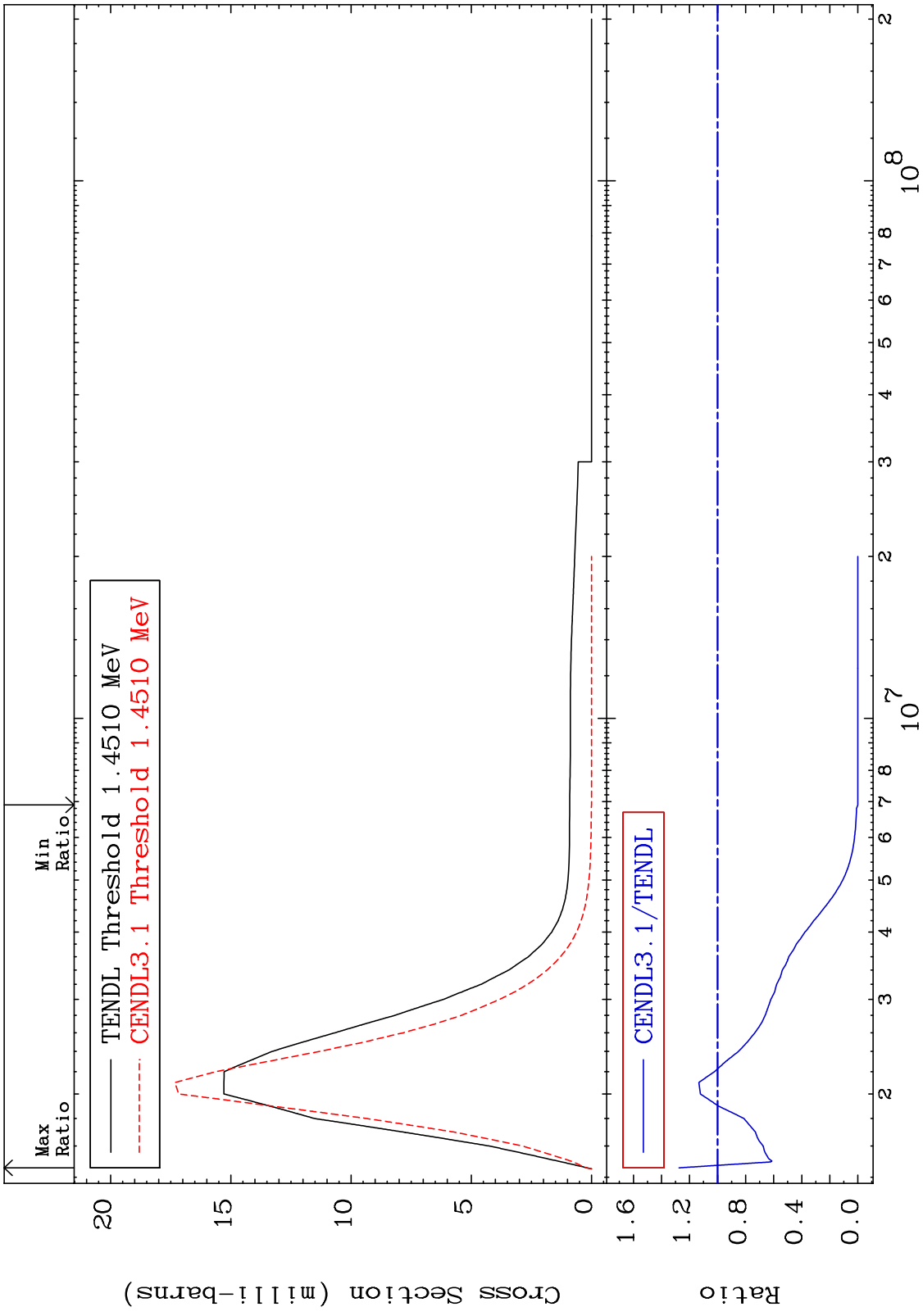
MAT 7225 MT= 65 (n,n') Level Cross Section 72-Hf-174 -100.0 To 13.34 %



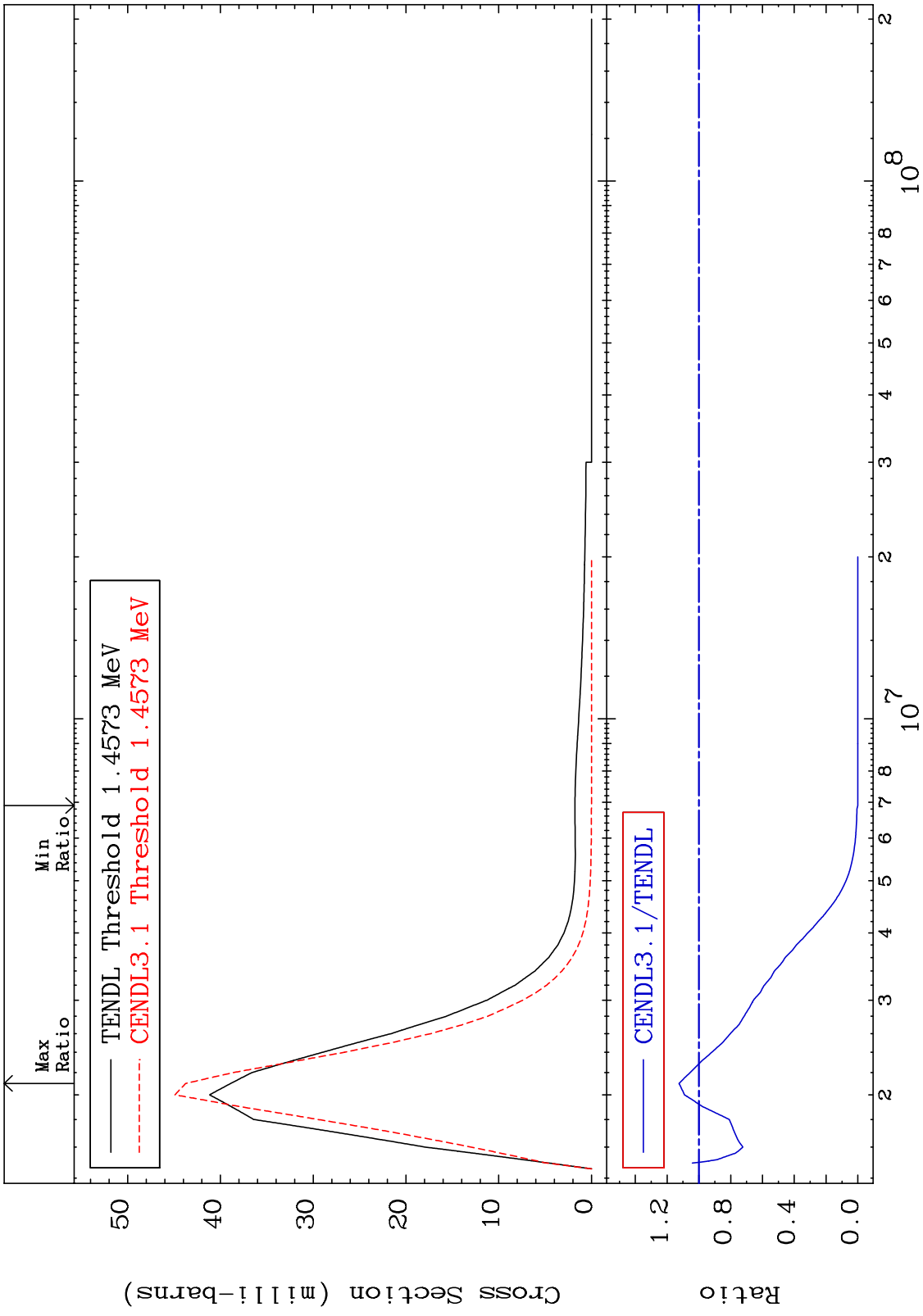
MAT 7225 MT= 66 (n,n') Level Cross Section 72-Hf-174 -100.0 To 127.2 %



MAT 7225 MT= 67 (n,n') Level Cross Section 72-Hf-174 -100.0 To 27.47 %



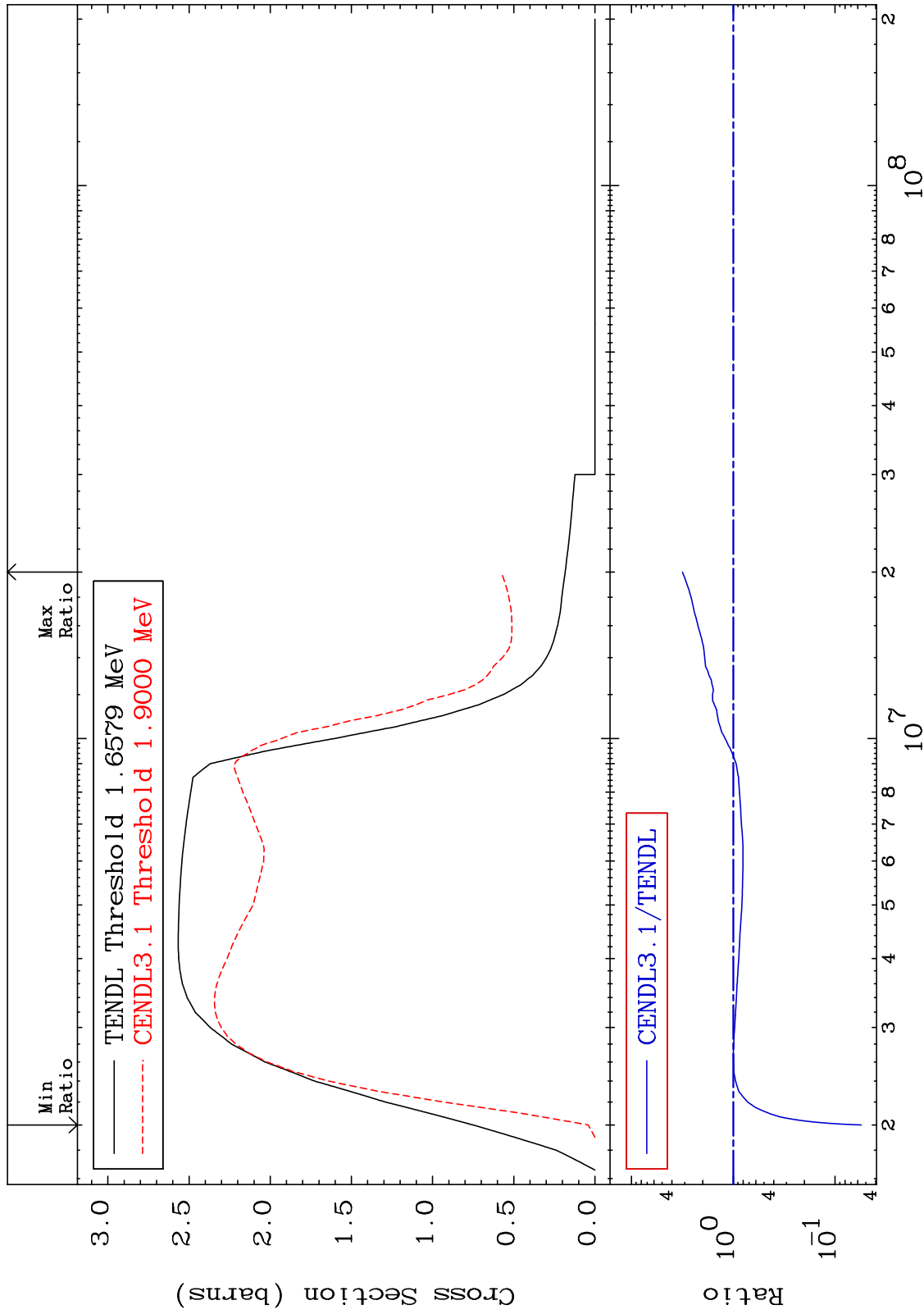
MAT 7225 MT= 68 (n,n') Level Cross Section 72-Hf-174 -100.0 To 12.48 %



MAT 7225

(n,n') Continuum
Cross Section

72-Hf-174
-94.47 To 215.6 %



MAT 7225

(n, γ)

72-Hf-174

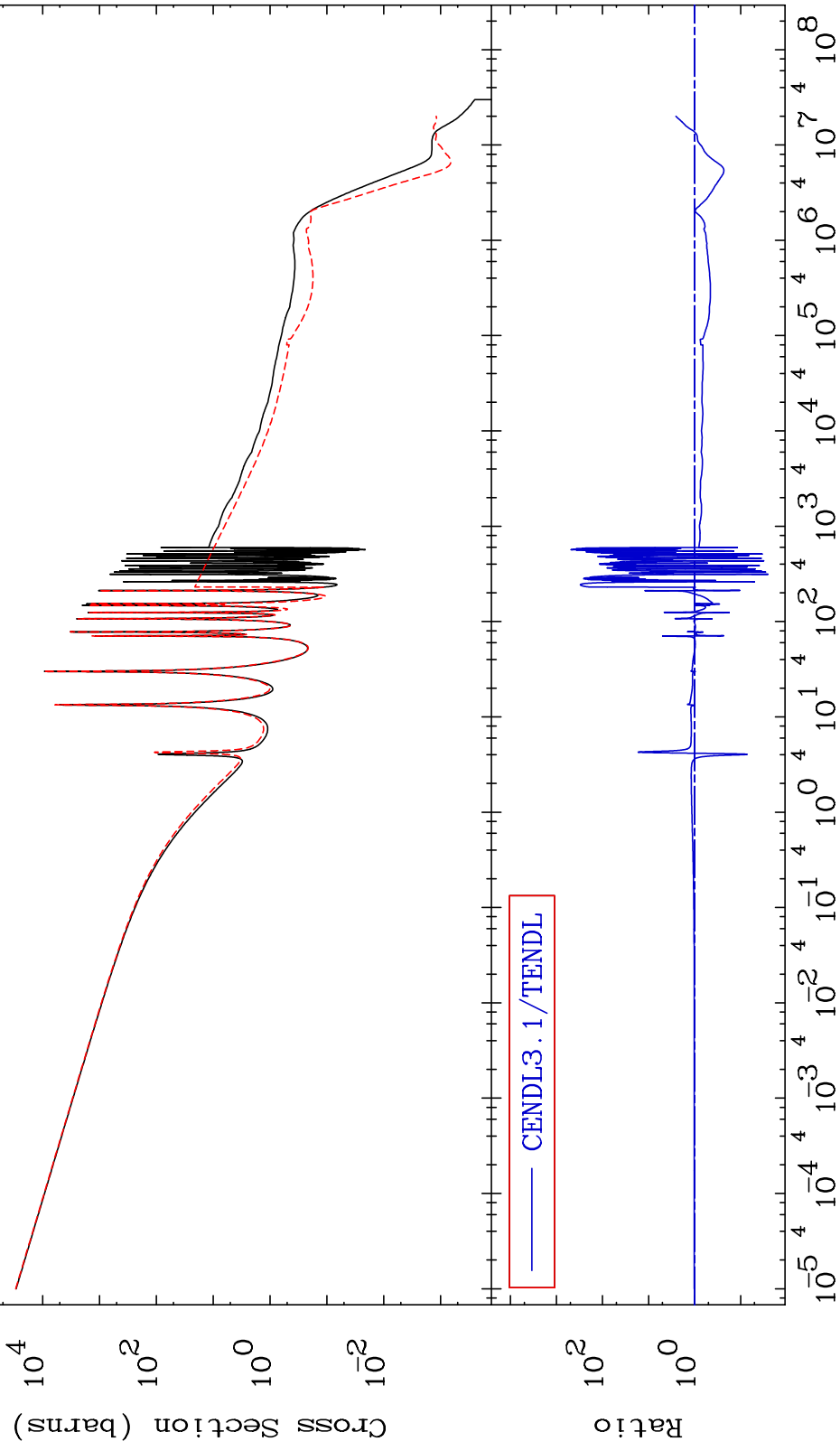
-97.48 To 9999. %

Cross Section

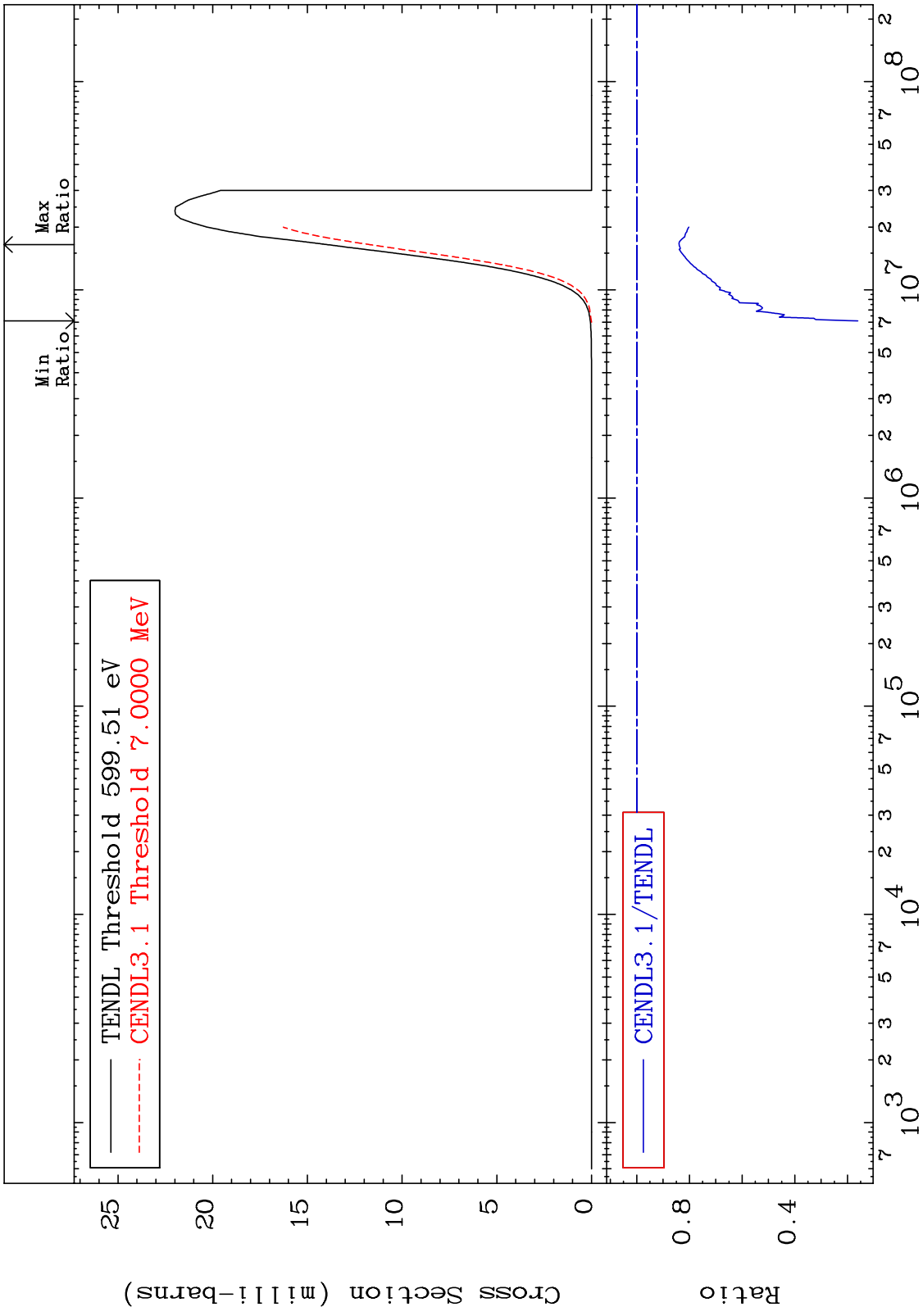
Min Ratio

Max Ratio

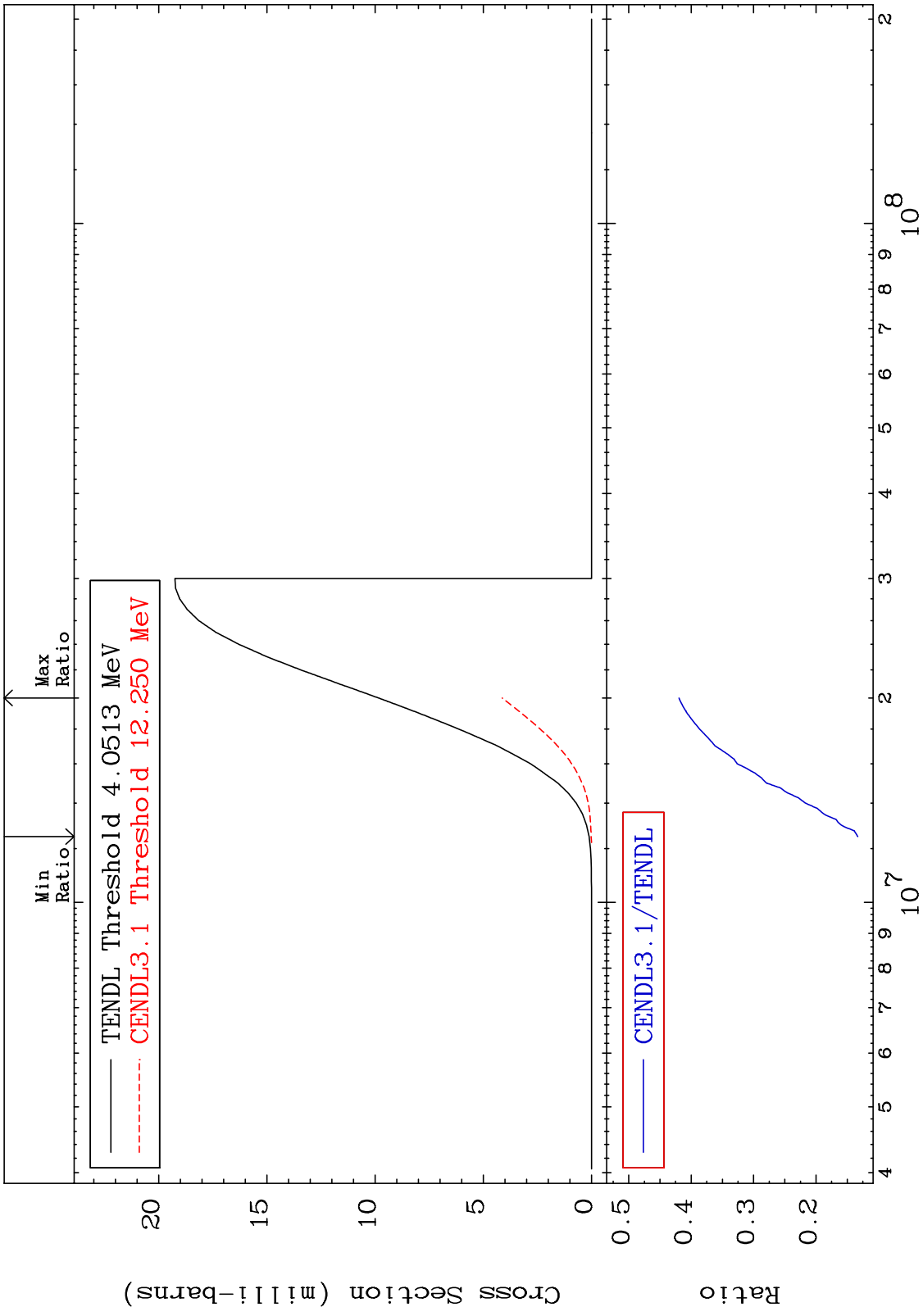
TENDL
CENDL3.1



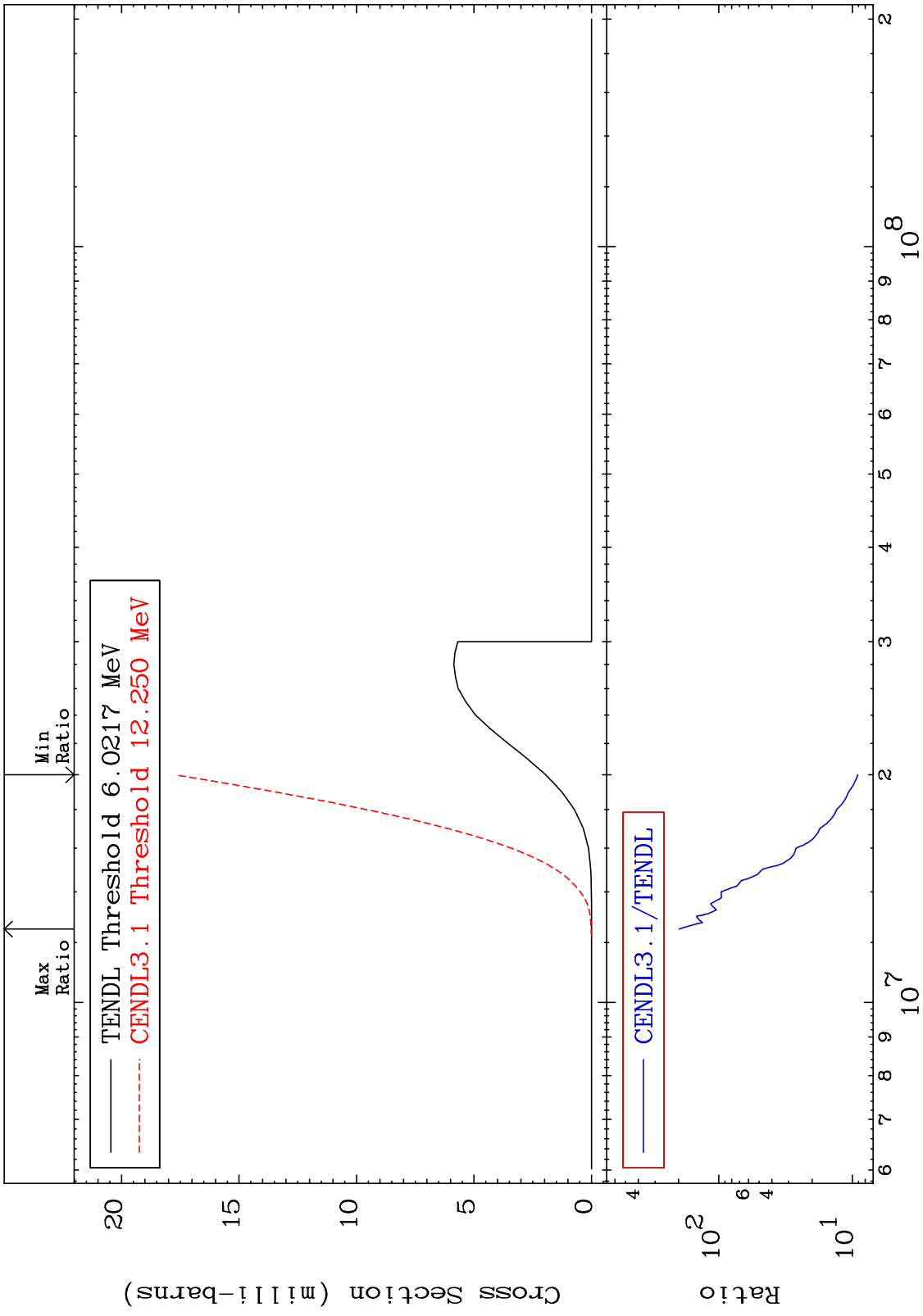
MAT 7225 (n,p) Cross Section 72-Hf-174 -83.92 To -16.06%



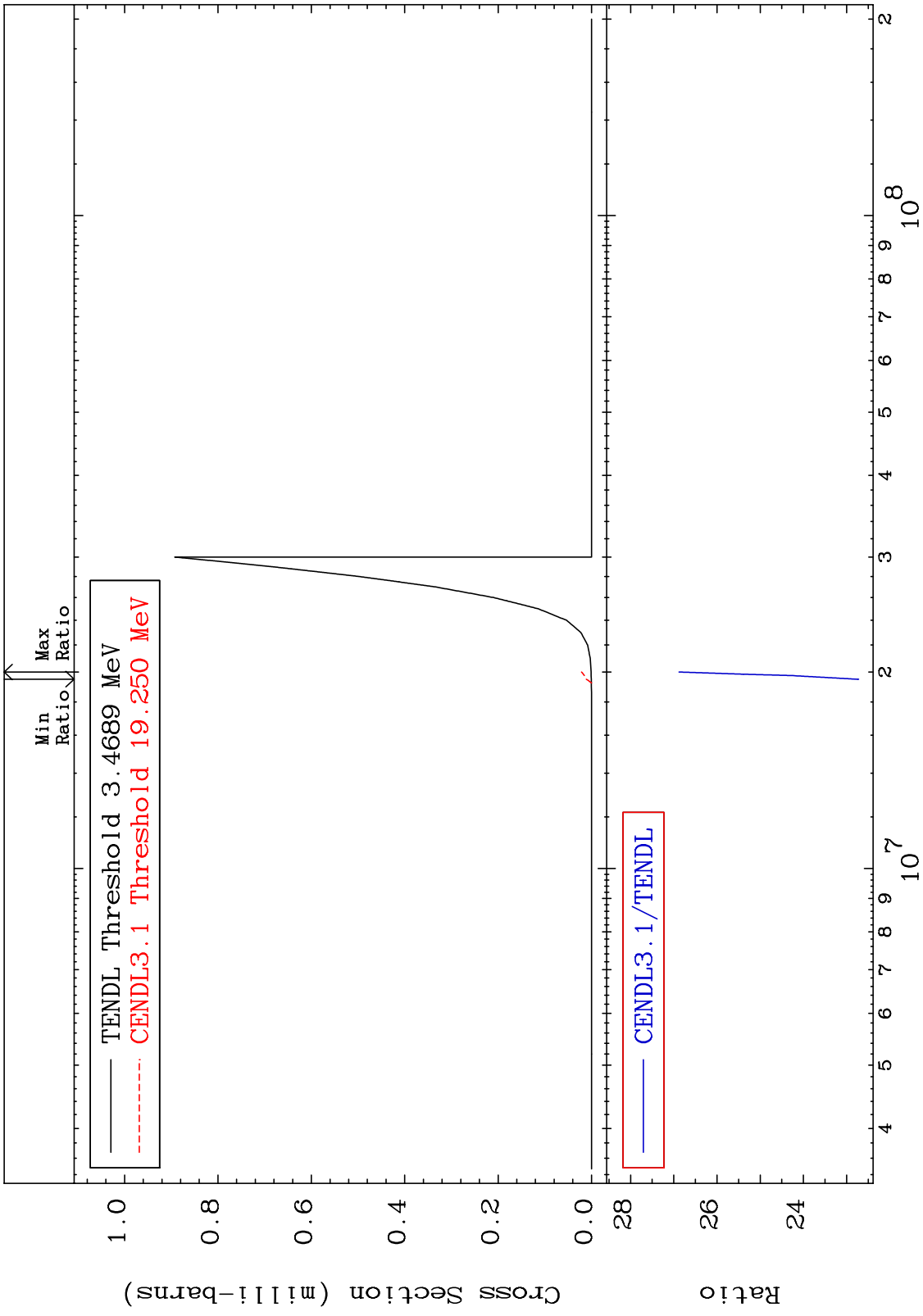
MAT 7225 (n,d) Cross Section 72-Hf-174 -86.70 To -58.06%



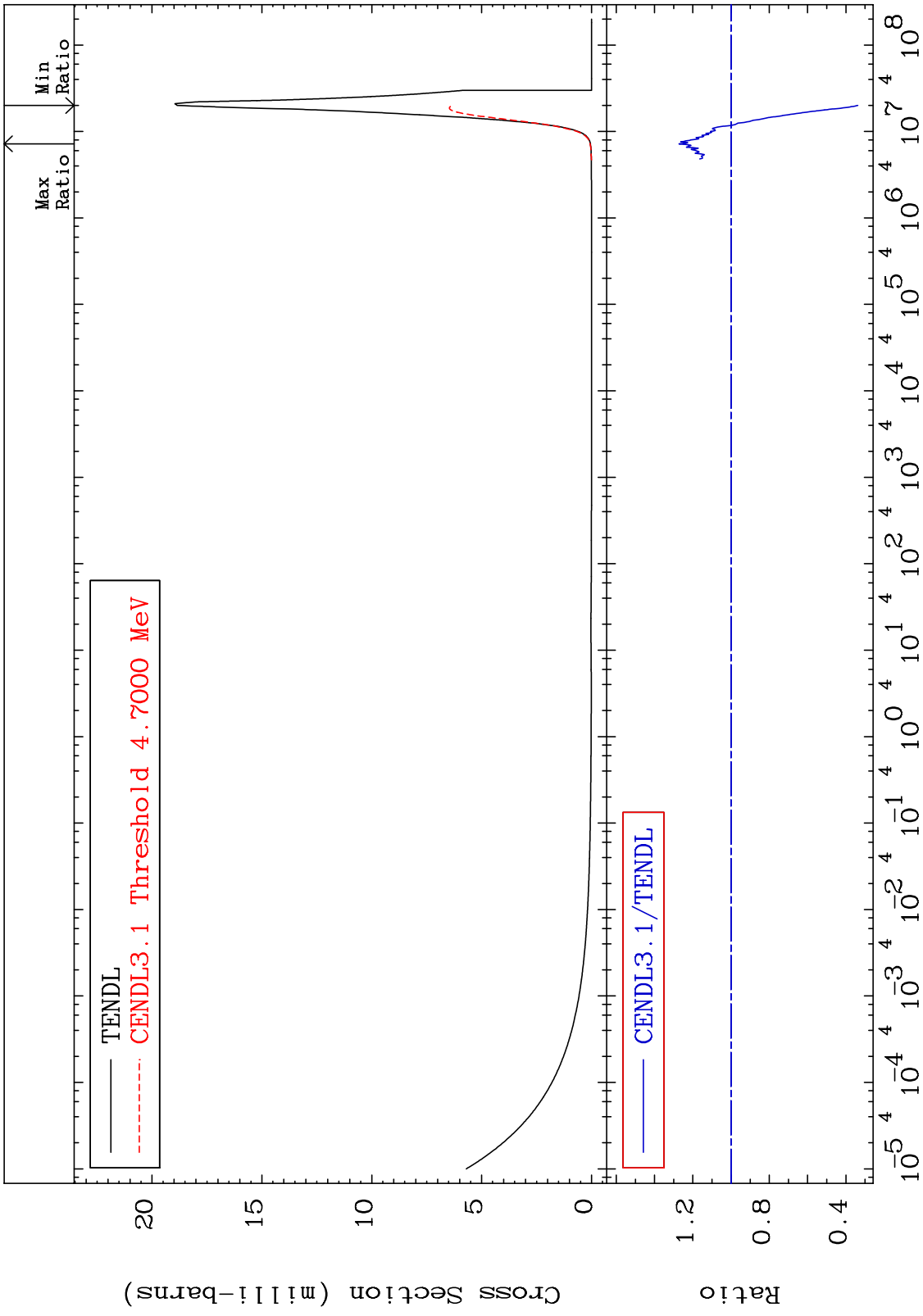
MAT 7225 (n,t) Cross Section 72-Hf-174 808.9 To 9999. %



MAT 7225 (n,He-3) Cross Section 72-Hf-174 To 2588. %
 2174. %



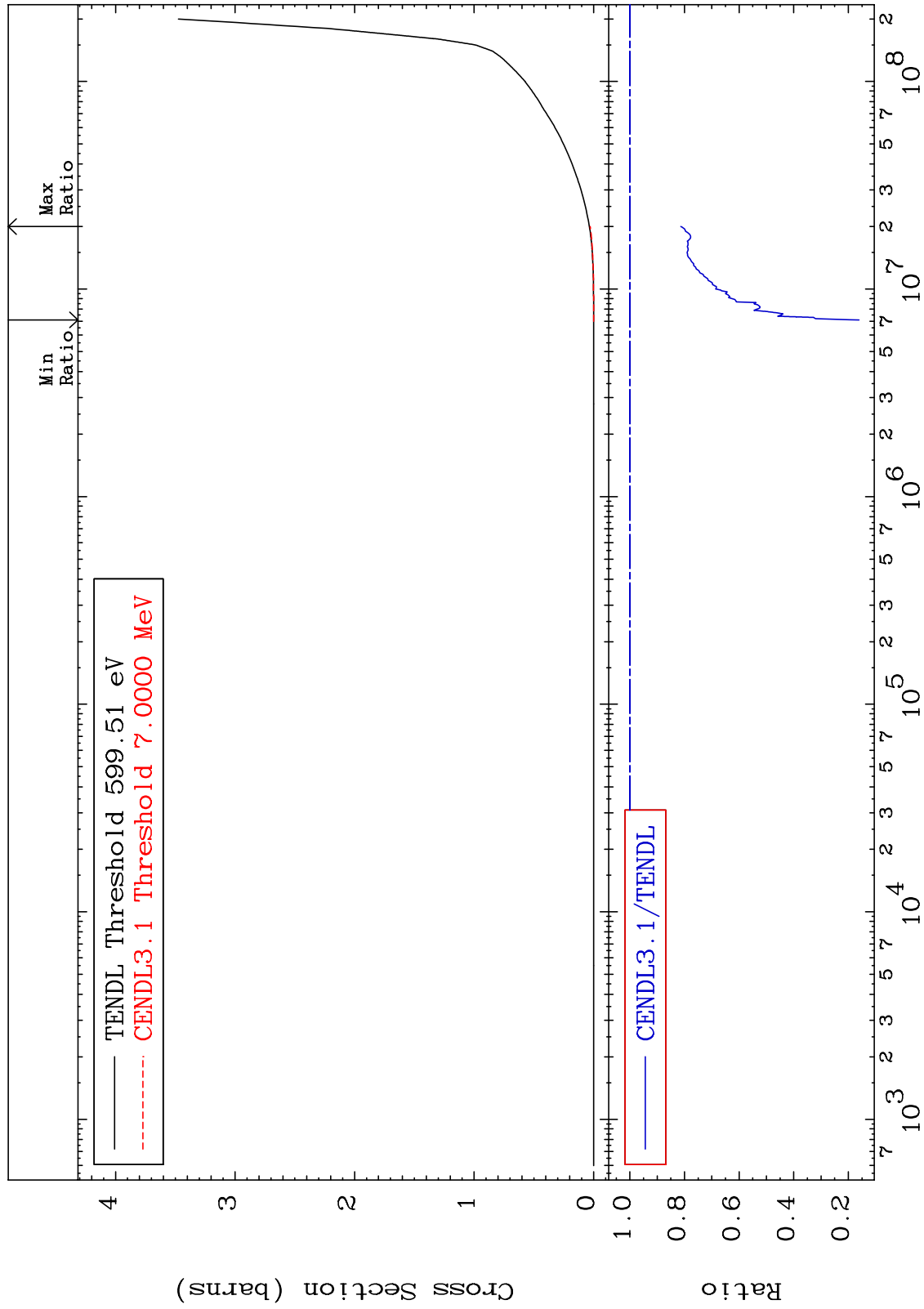
MAT 7225 (n,α) Cross Section 72-Hf-174 -66.25 To 27.19 %



MAT 7225

Hydrogen Production Cross Section

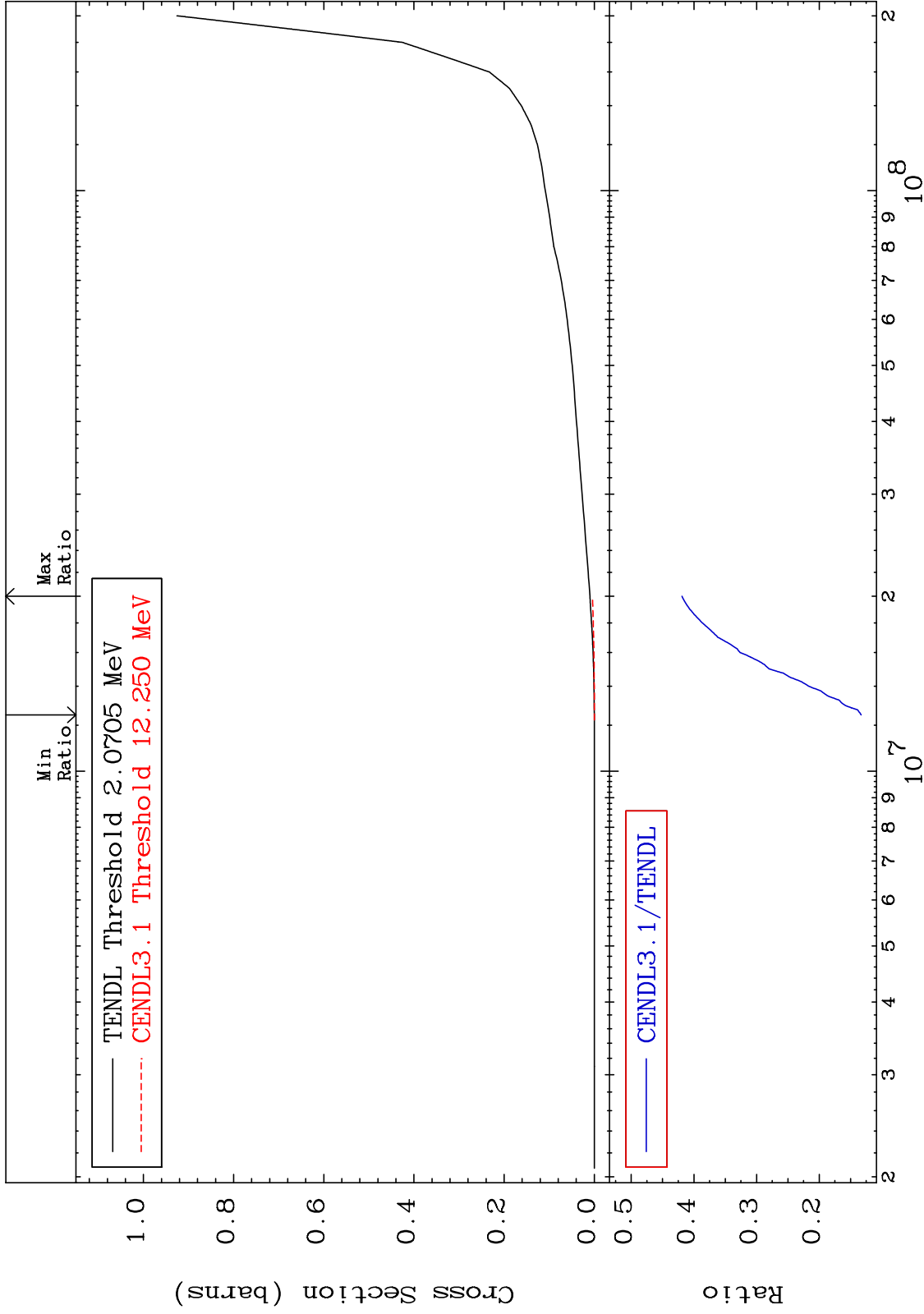
72-Hf-174
-83.92 To -18.66%



MAT 7225

Deuterium Production
Cross Section

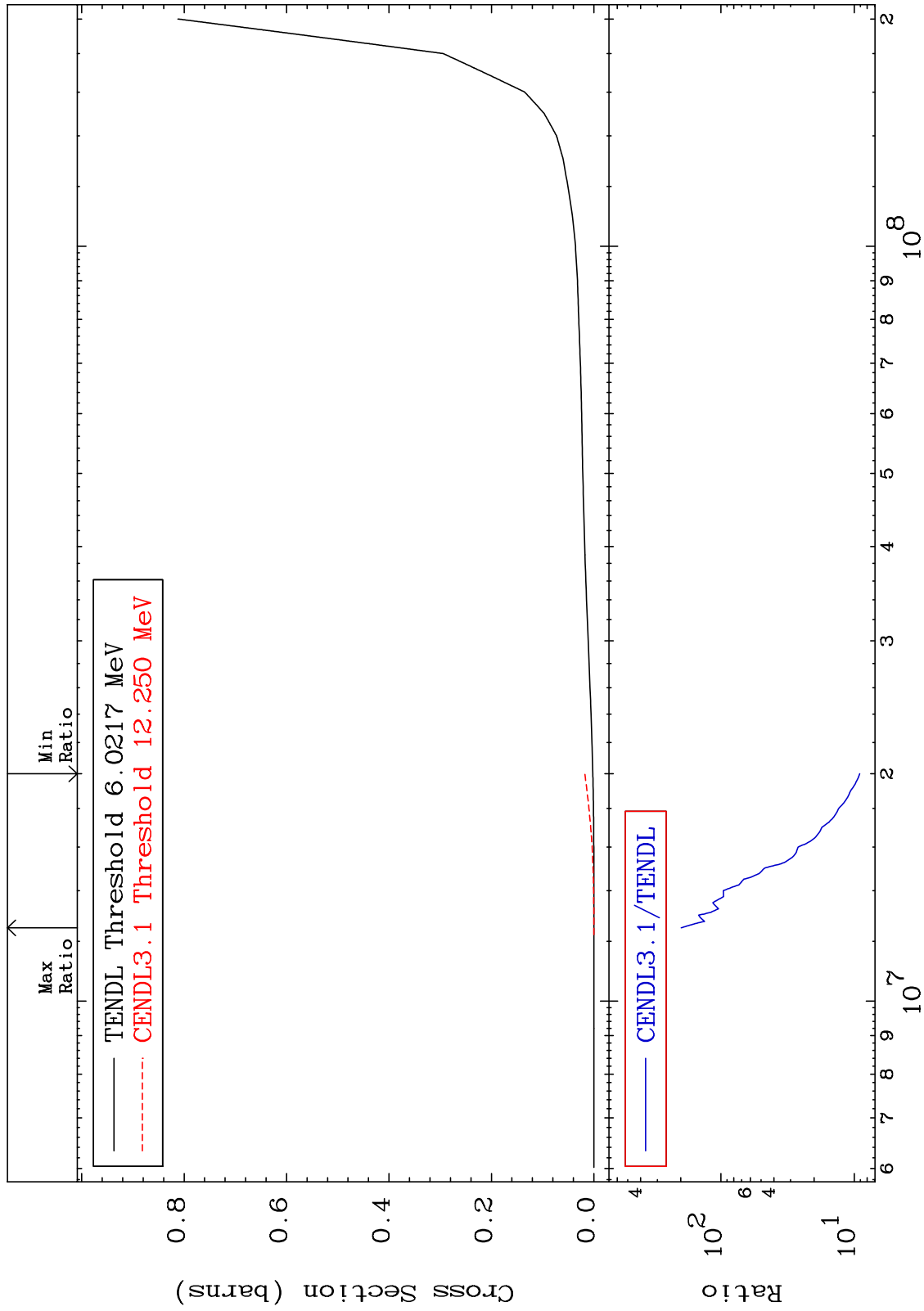
⁷²Hf-174
-86.70 To -58.11%



MAT 7225

Tritium Production
Cross Section

72-Hf-174
808.3 To 9999. %



35

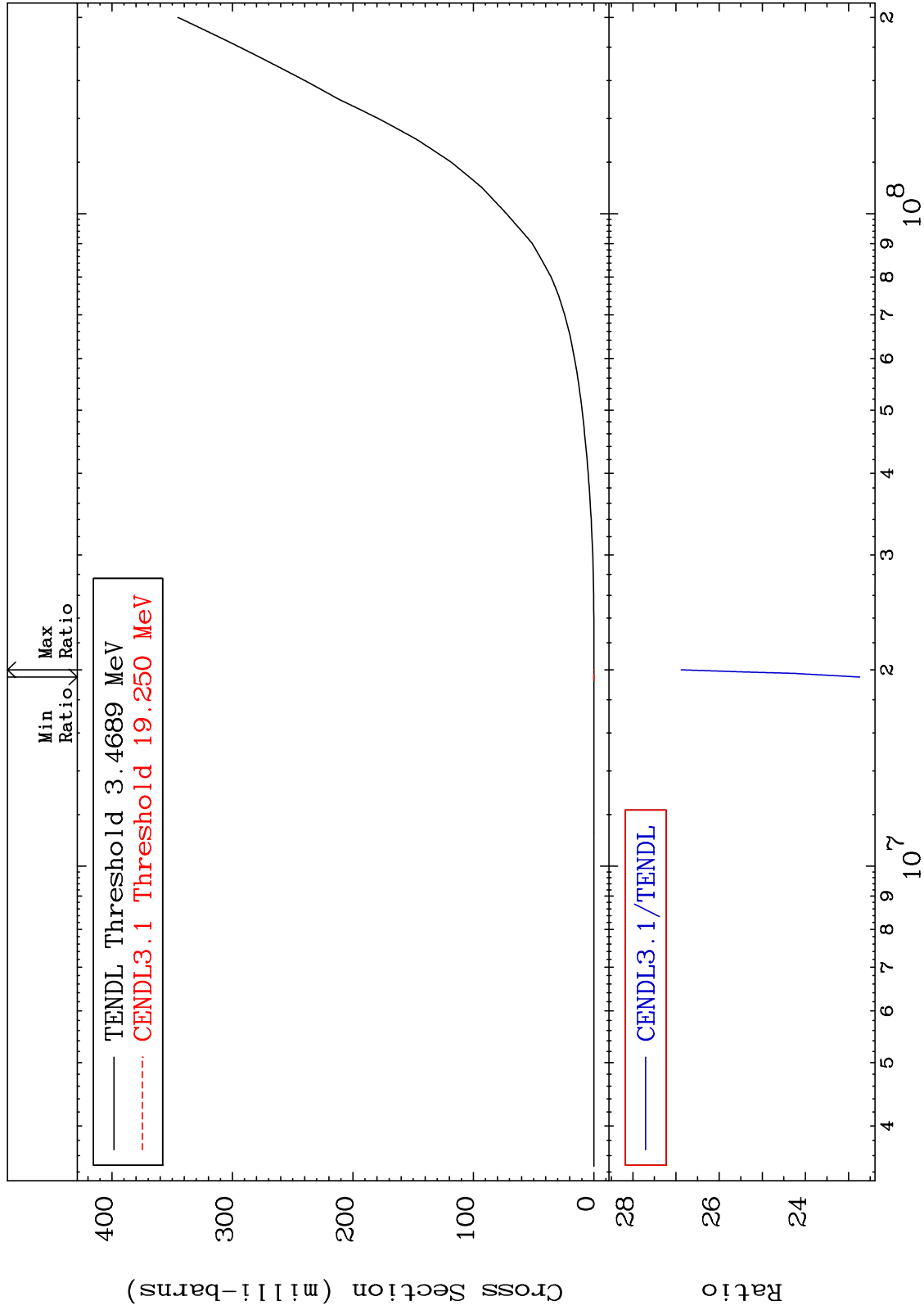
Incident Energy (eV)

72-Hf-174

MAT 7225

He-3 Production
Cross Section

72-Hf-174
2174. To 2588. %



36

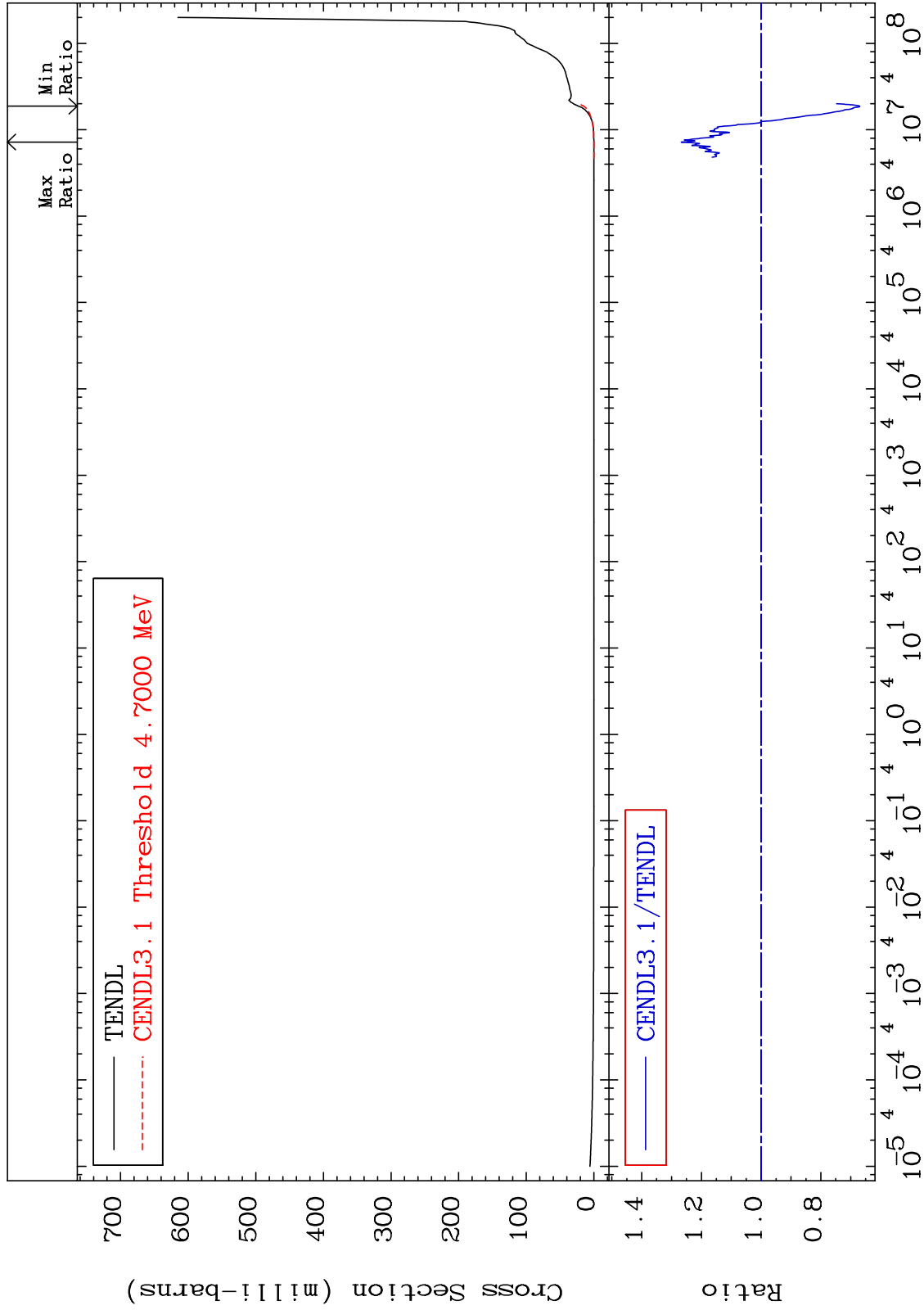
Incident Energy (eV)

72-Hf-174

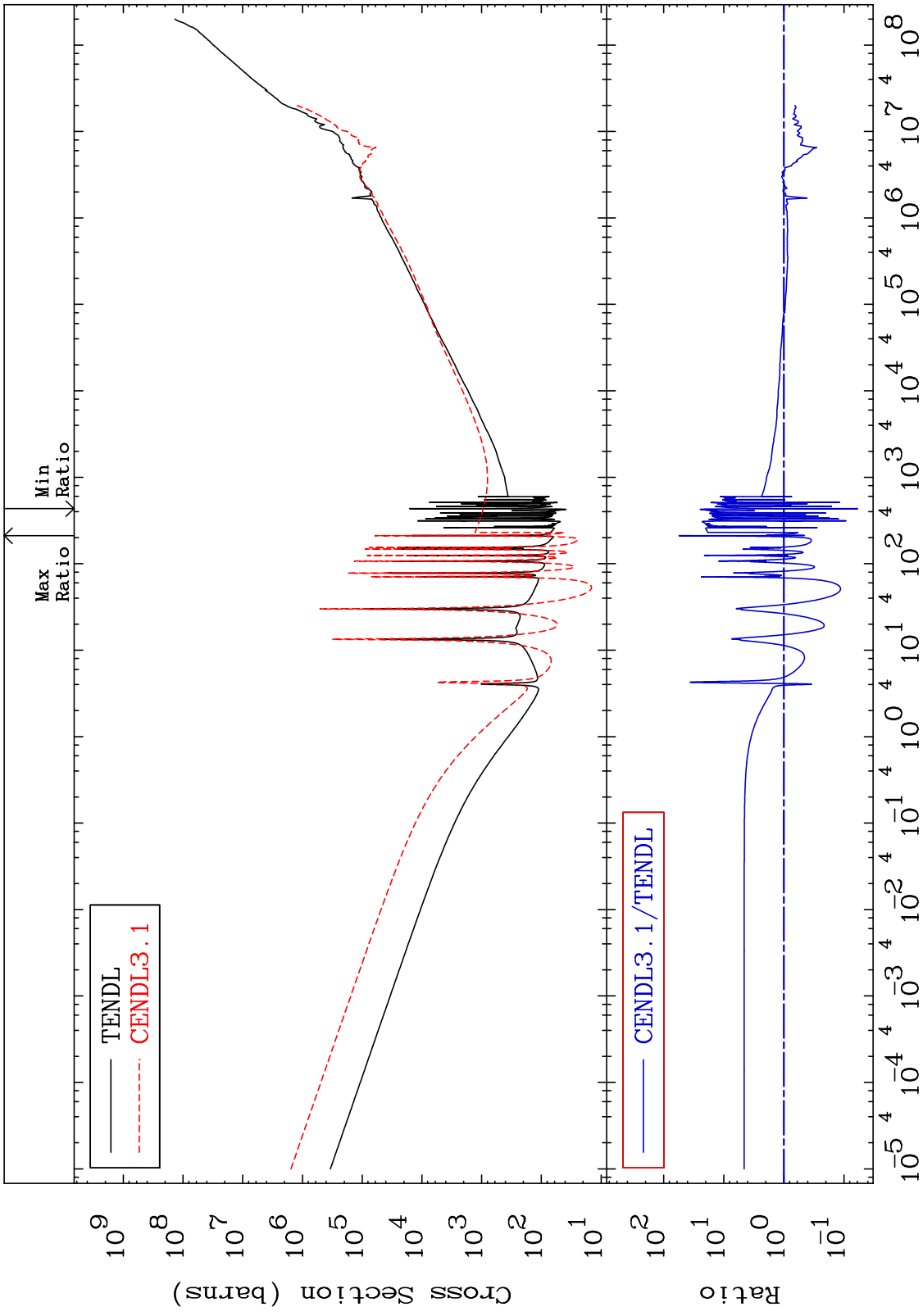
MAT 7225

He-4 Production
Cross Section

72-Hf-174
-33.03 To 26.75 %



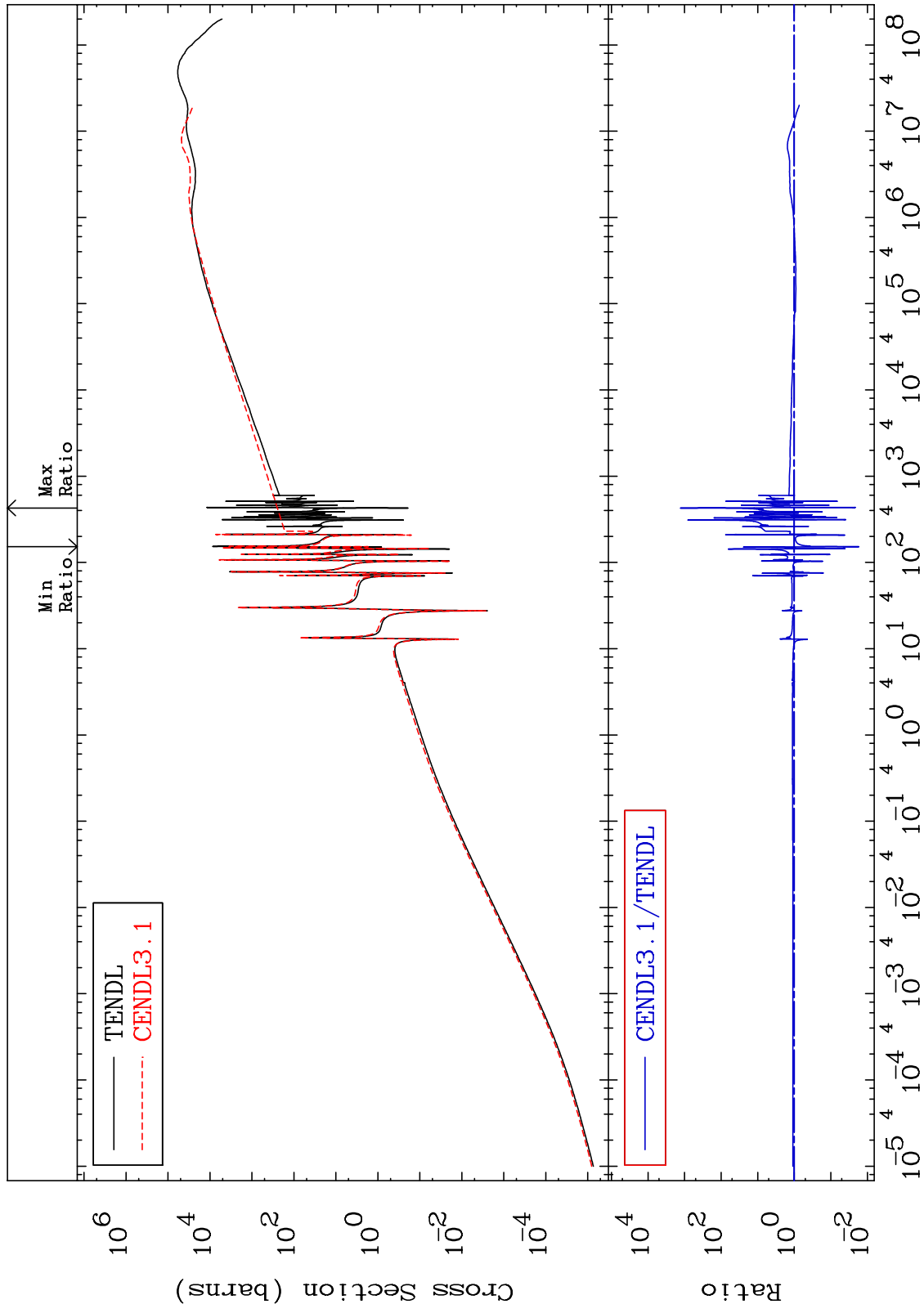
MAT 7225 Kerma total (eV-barns) 72-Hf-174
 Cross Section -94.13 To 5439. %



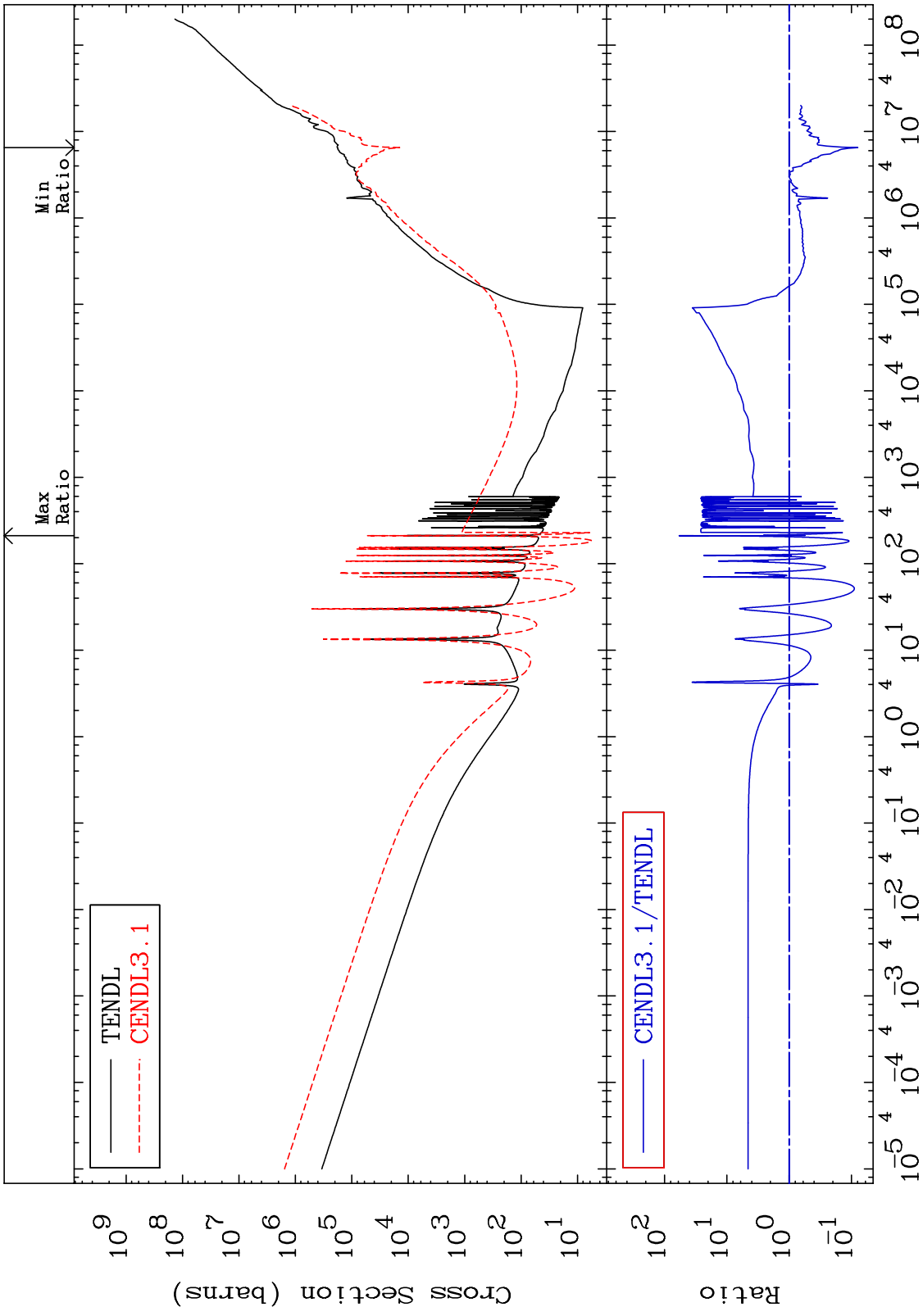
MAT 7225

Kerma elastic
Cross Section

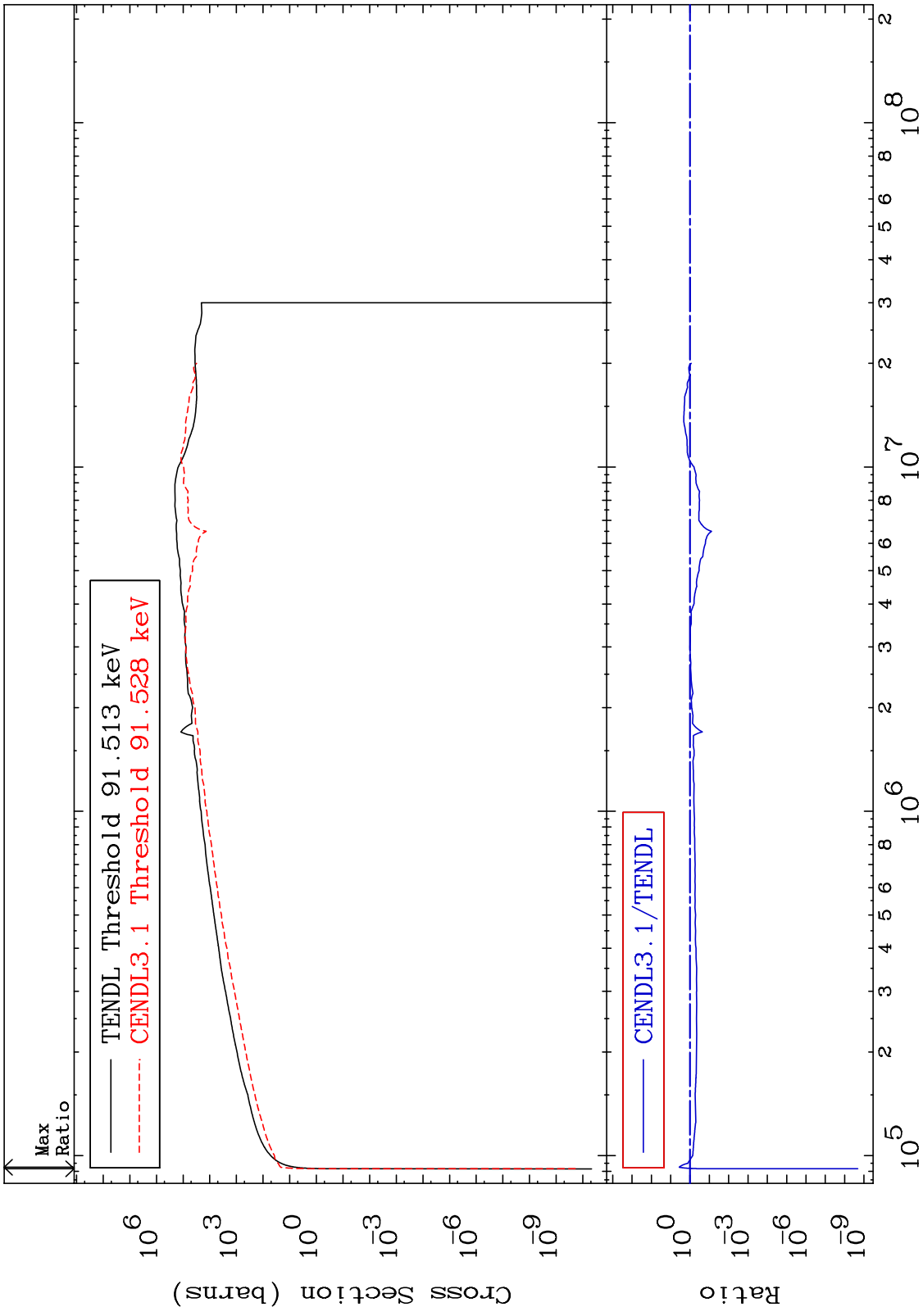
72-Hf-174
-98.30 To 9999. %



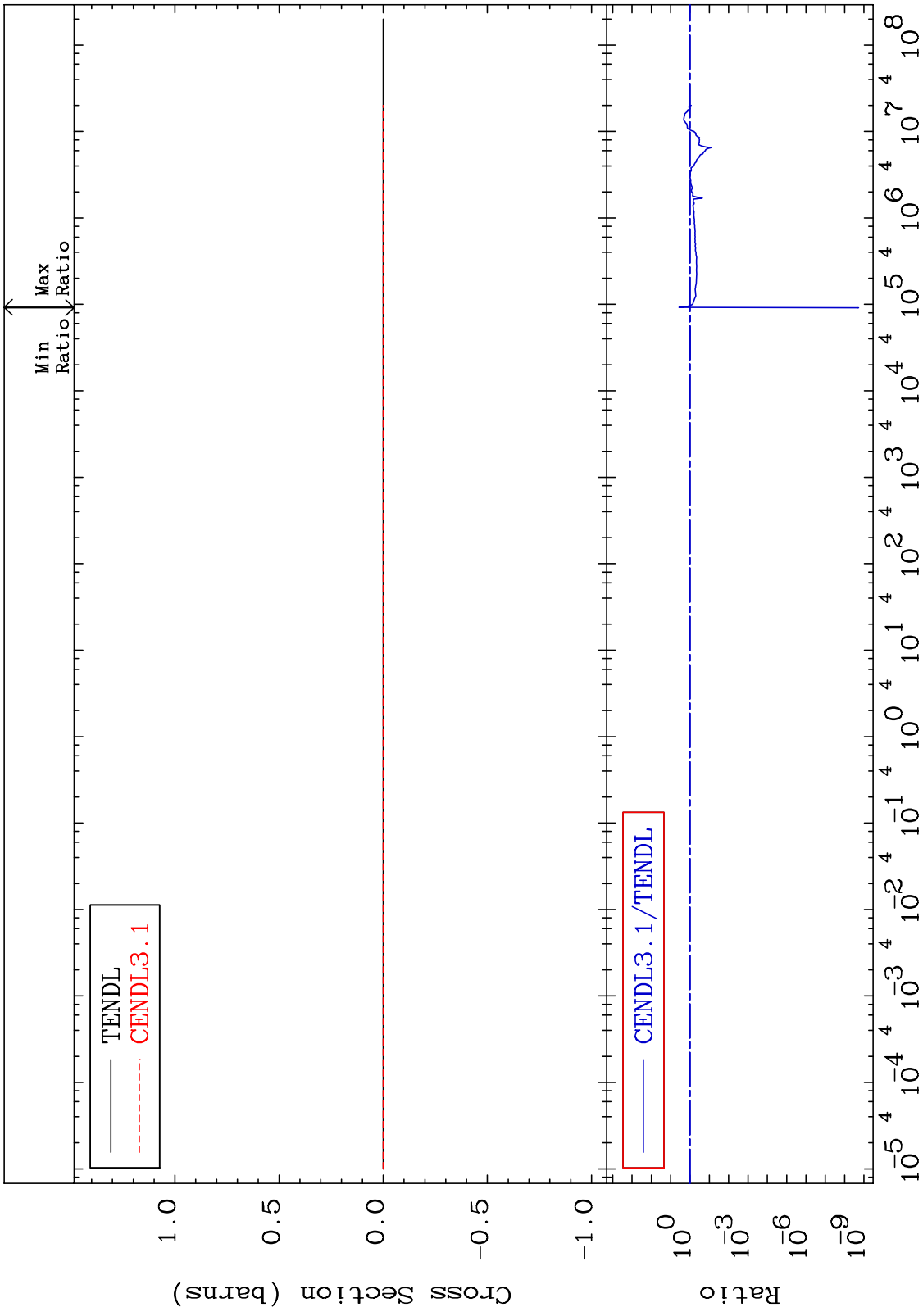
MAT 7225 Kerma non-elastic (all but mt2) 72-Hf-174
 Cross Section -92.08 To 5759. %



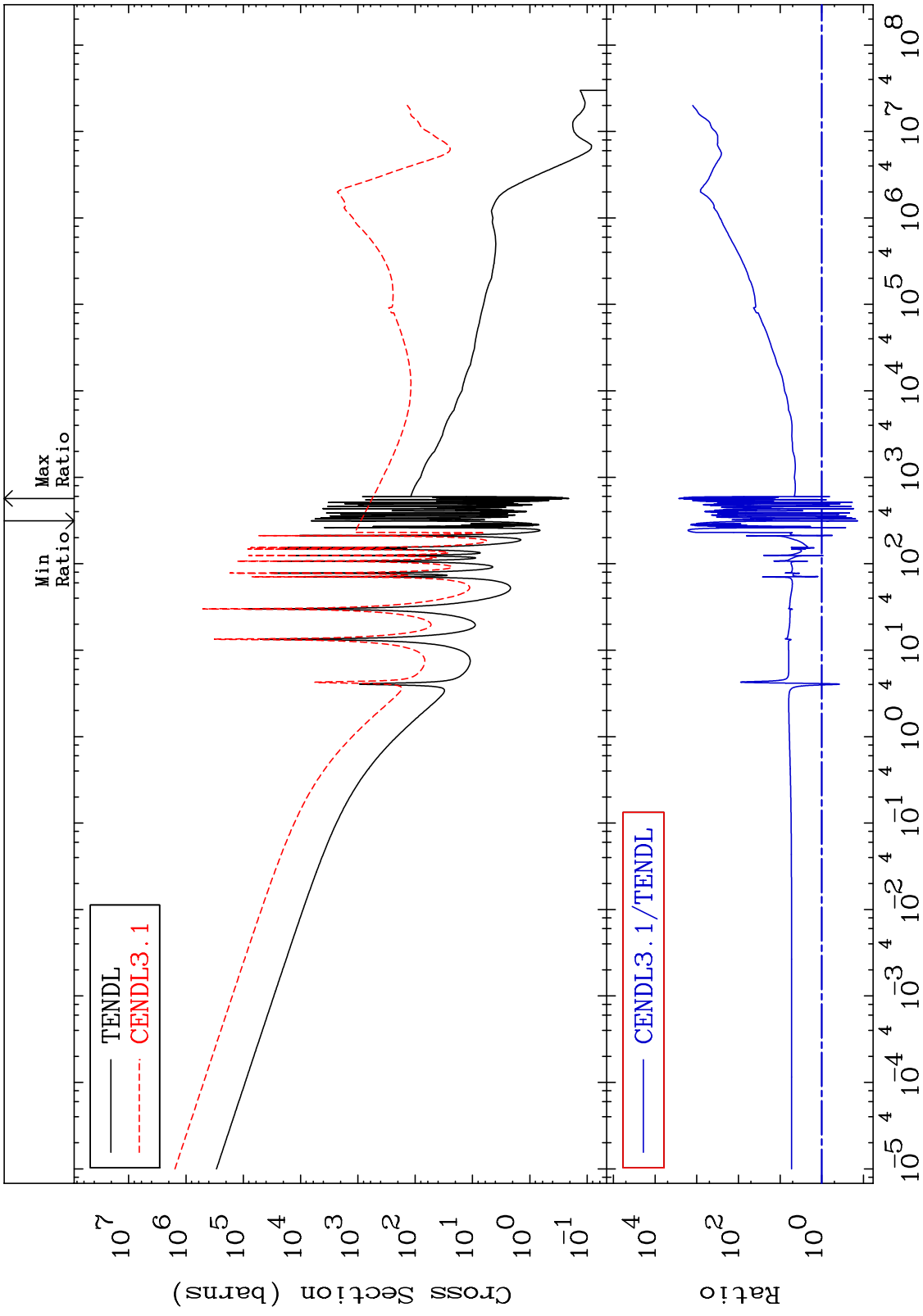
MAT 7225 Kerma inelastic (mt51-91) 72-Hf-174
Cross Section -100.0 To 268.4 %



MAT 7225 Kerma fission (mt18 or mt19-20-21-38) 72-Hf-174
 Cross Section -100.0 To 268.4 %

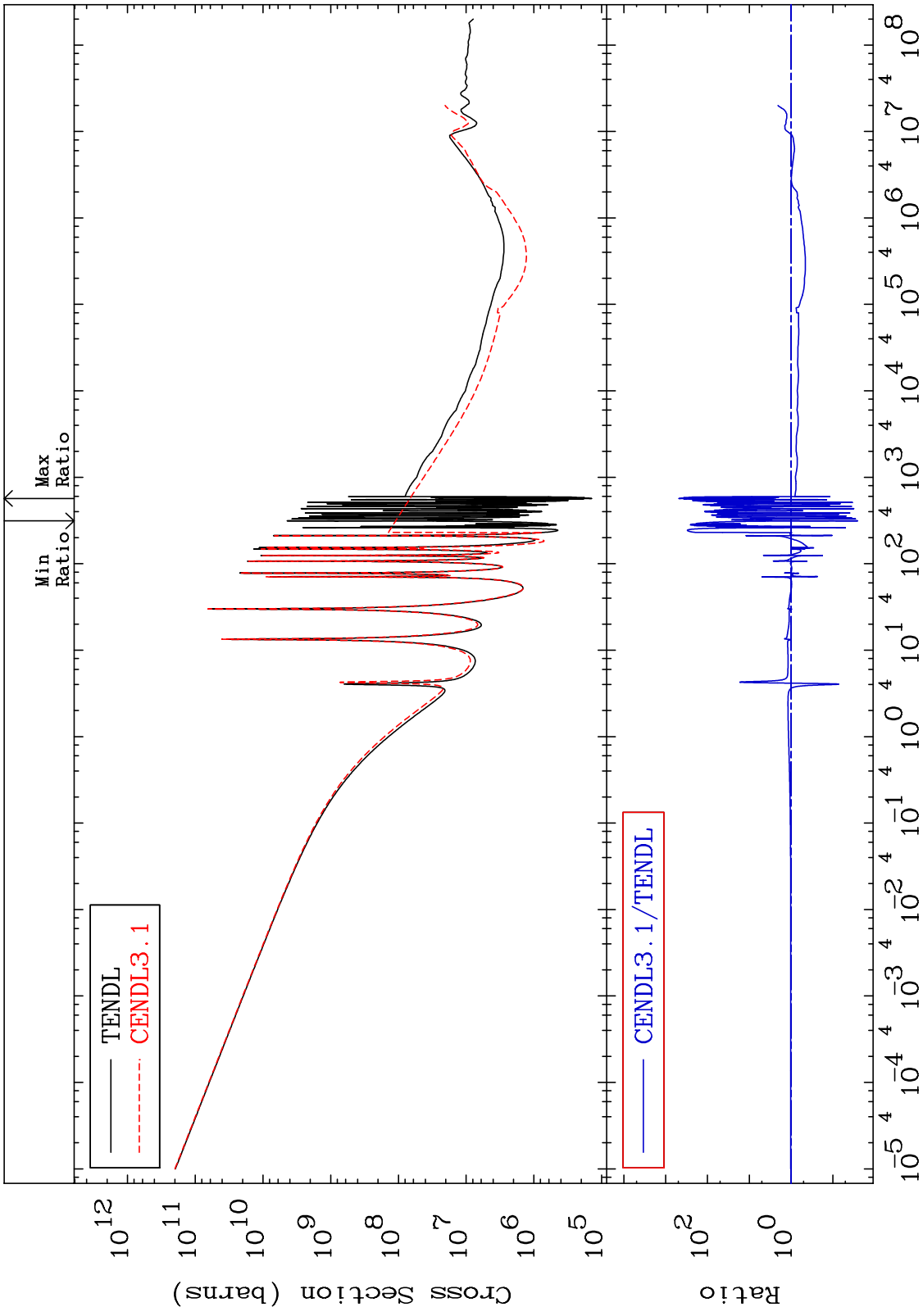


MAT 7225 Kerma capture (mt102) 72-Hf-174
 -86.37 To 9999. %



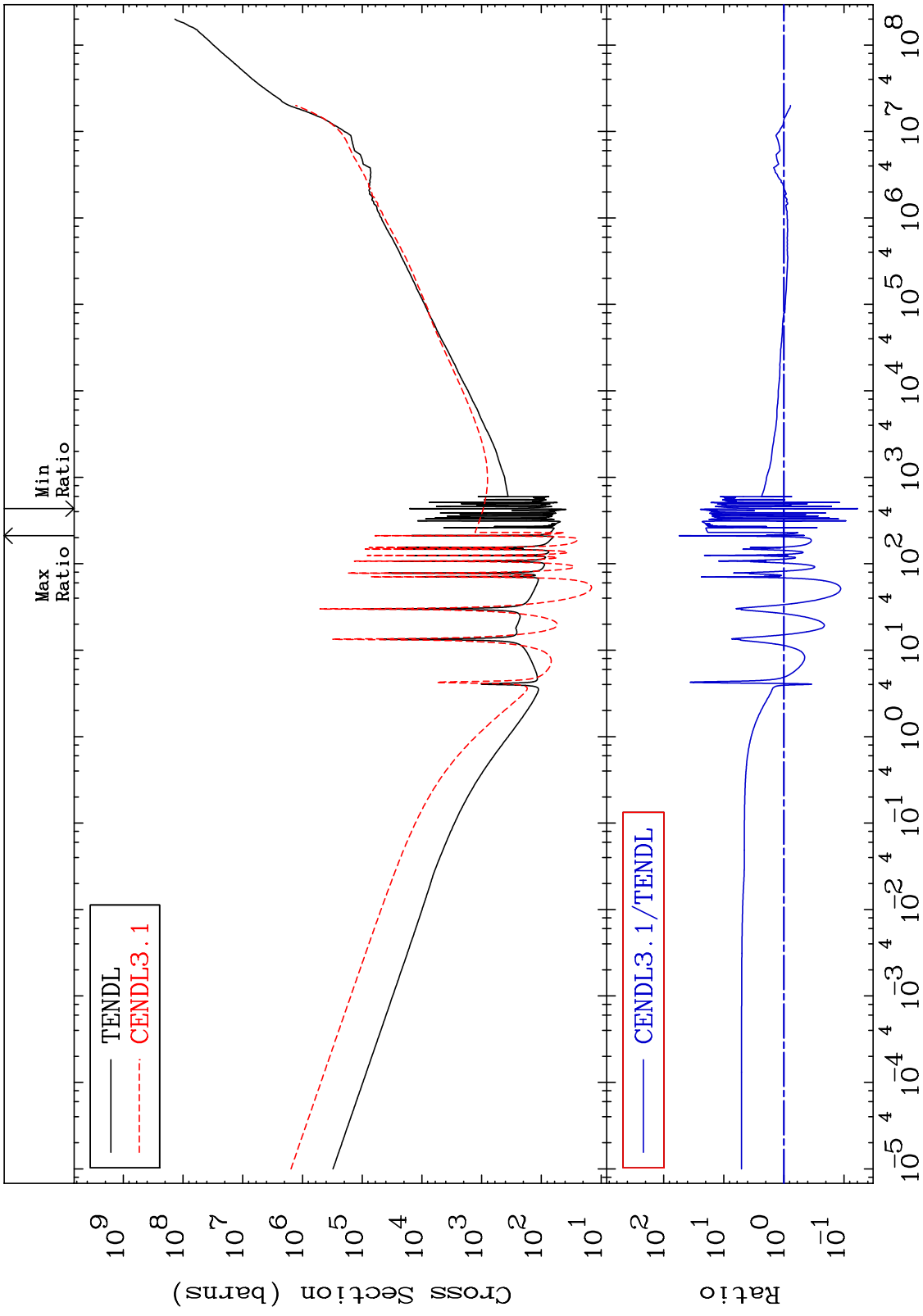
43 Incident Energy (eV) 72-Hf-174

MAT 7225 72-Hf-174
-97.48 To 9999. %
 Total photon (eV-barns)
 Cross Section



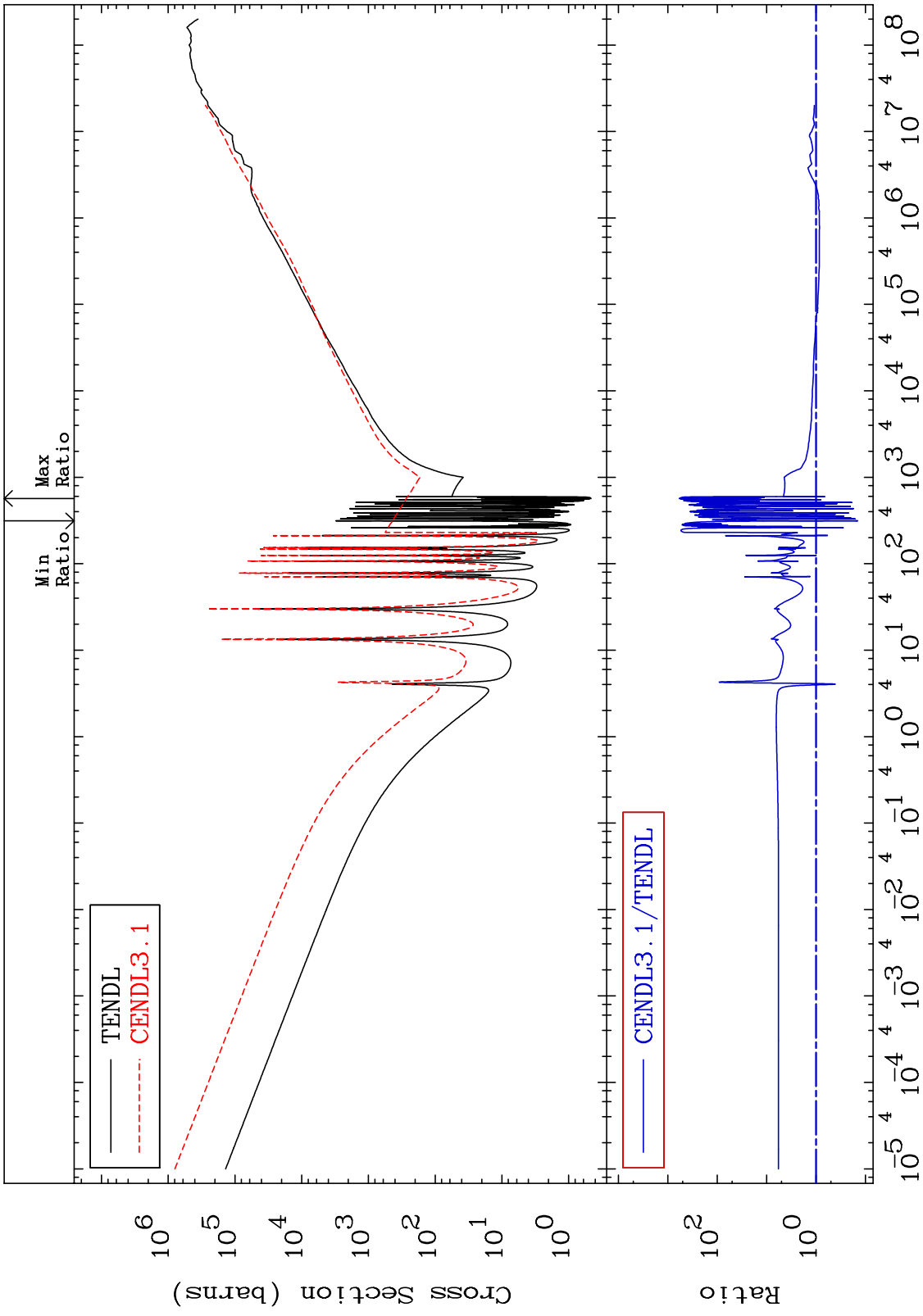
44 72-Hf-174

MAT 7225 Total kinematic kerma (high limit) 72-Hf-174
 -94.13 To 5437. %
 Cross Section



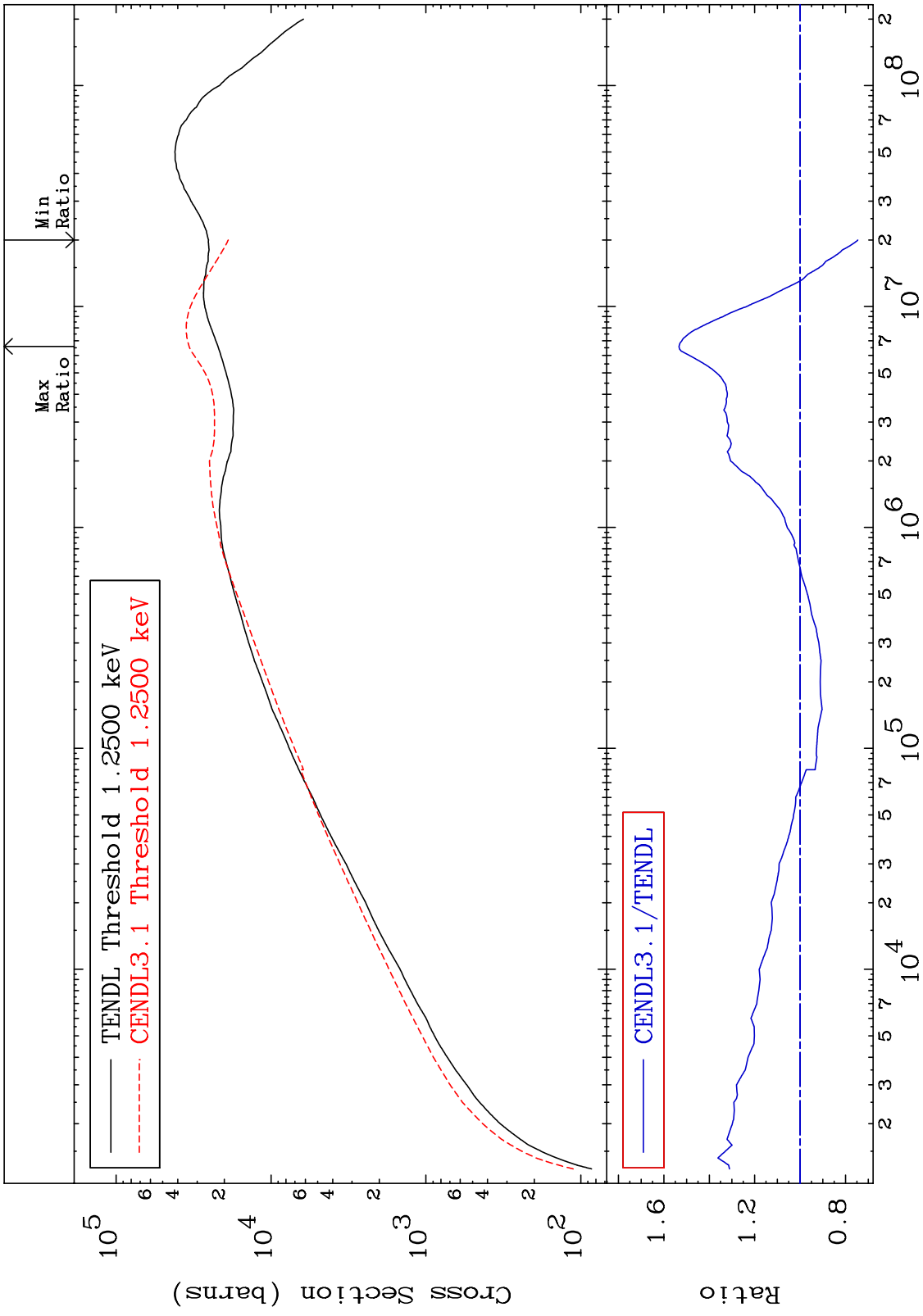
45 Incident Energy (eV) 72-Hf-174

MAT 7225 Dpa total (eV-barns) 72-Hf-174
 -85.71 To 9999. %
 Cross Section

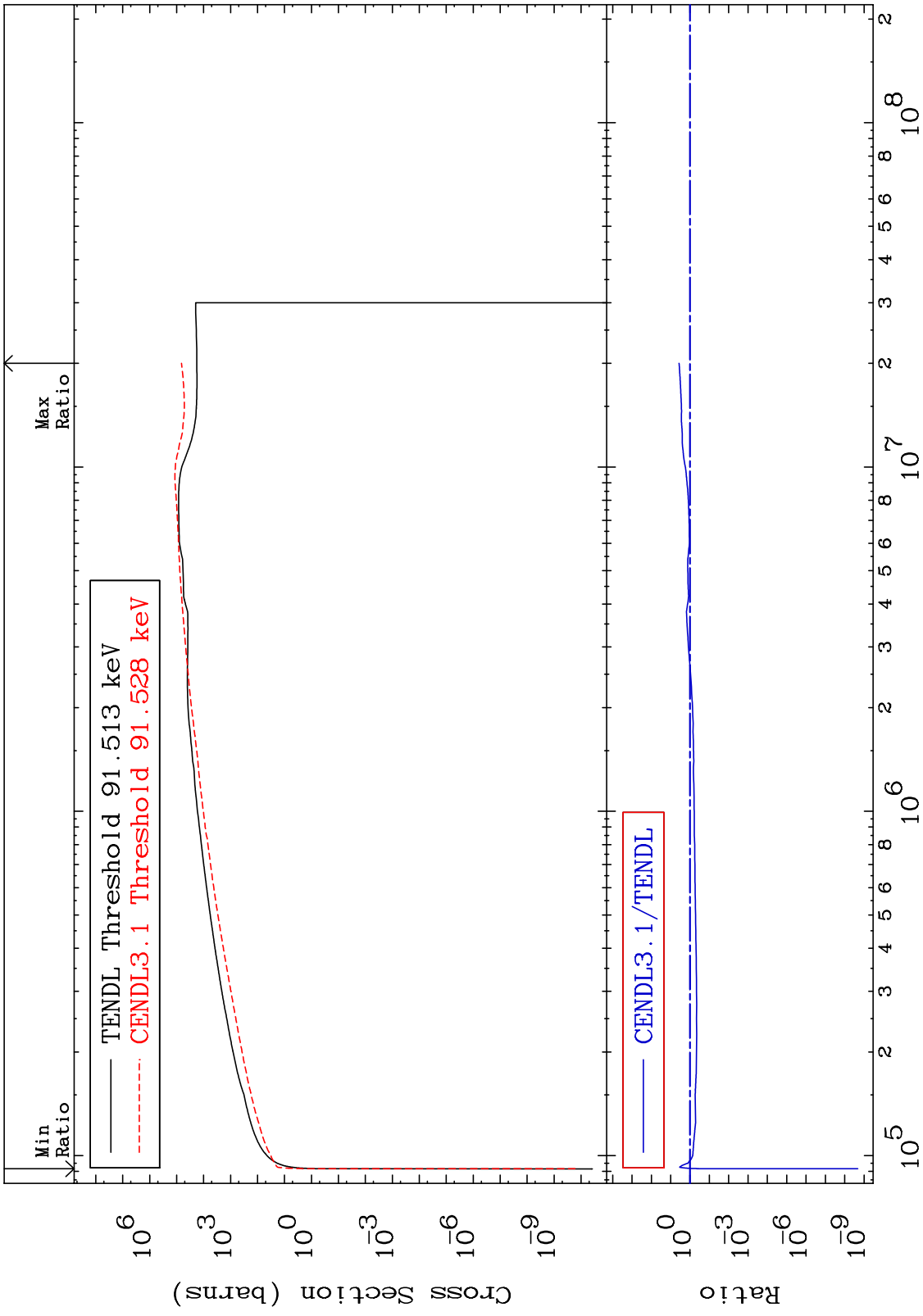


46 Incident Energy (eV) 72-Hf-174

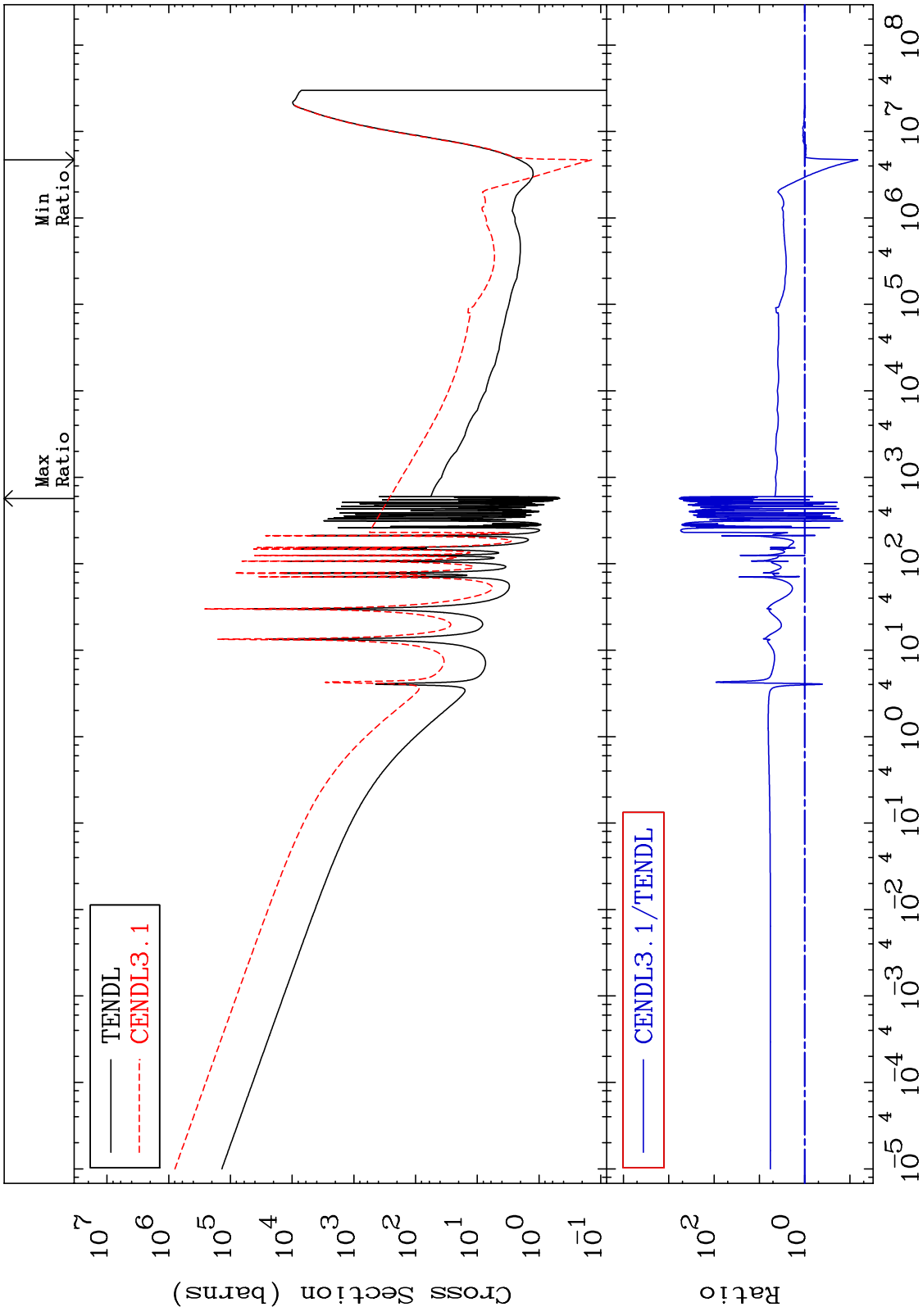
MAT 7225 Dpa elastic (mt2) 72-Hf-174
 Cross Section -25.44 To 53.31 %



MAT 7225 Dpa inelastic (mt51-91) 72-Hf-174
Cross Section -100.0 To 269.0 %



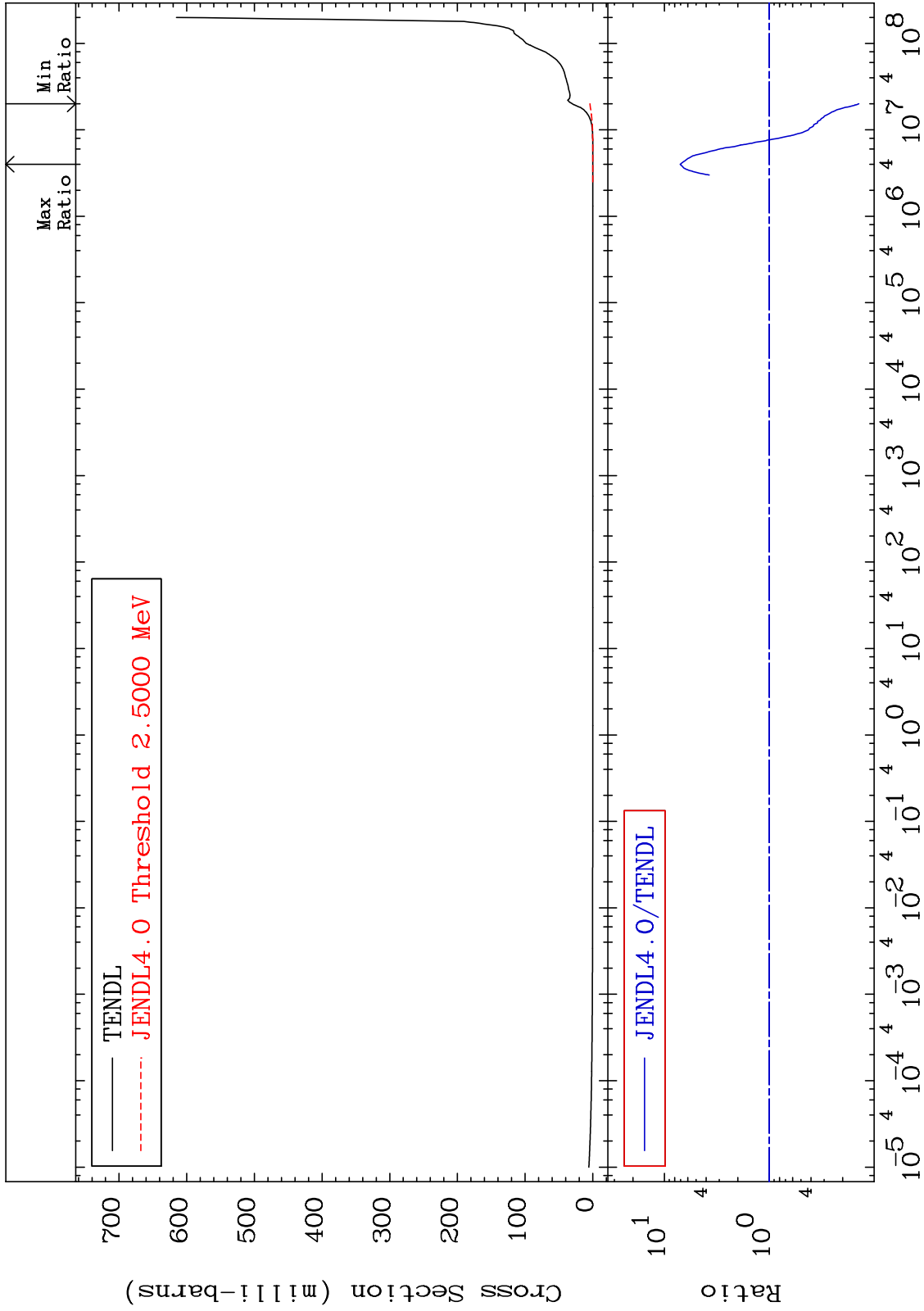
MAT 7225 Dpa disappearance (mt102 -120) 72-Hf-174
 Cross Section -93.28 To 9999. %



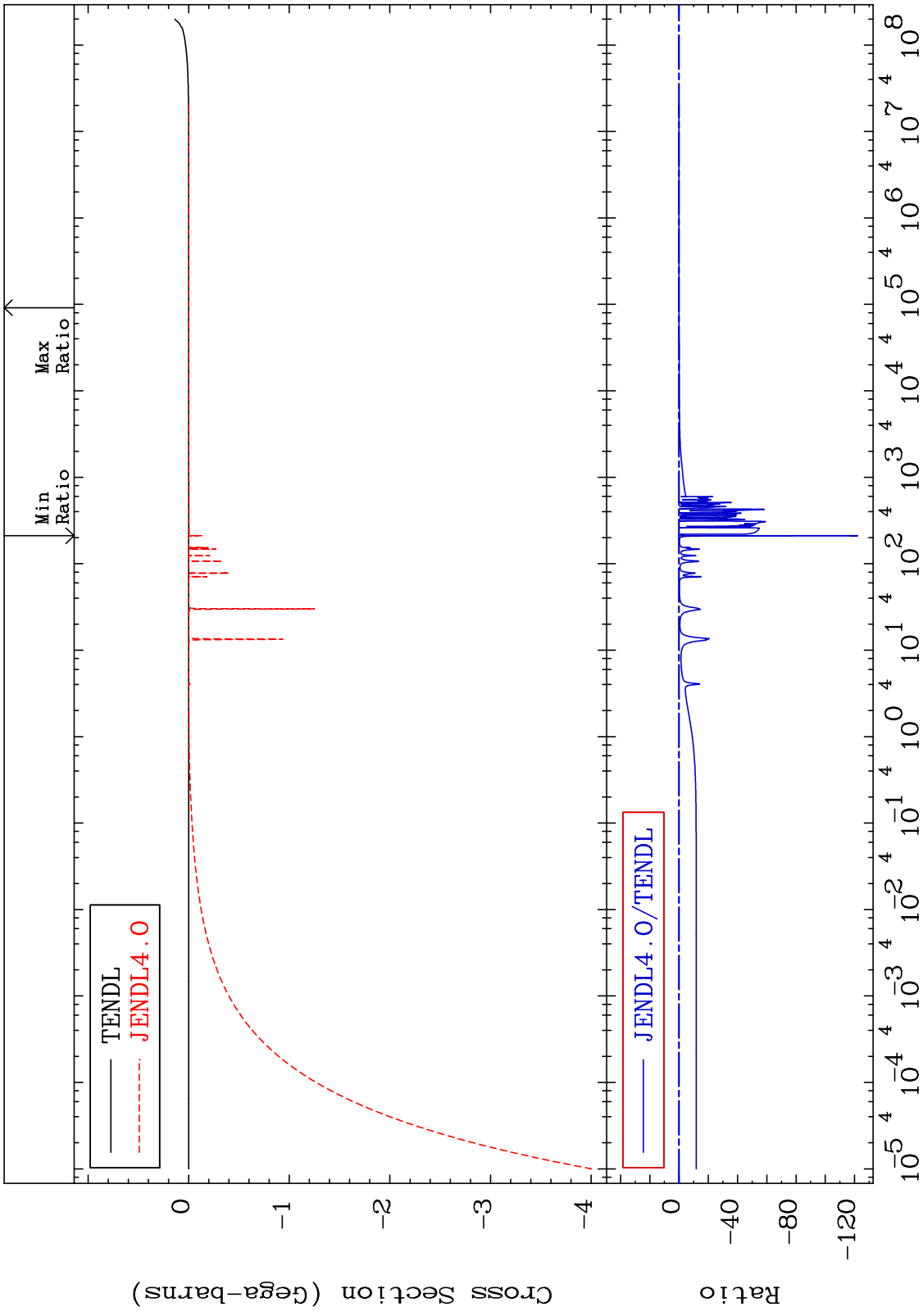
MAT 7225

He-4 Production
Cross Section

72-Hf-174
-86.02 To 607.2 %



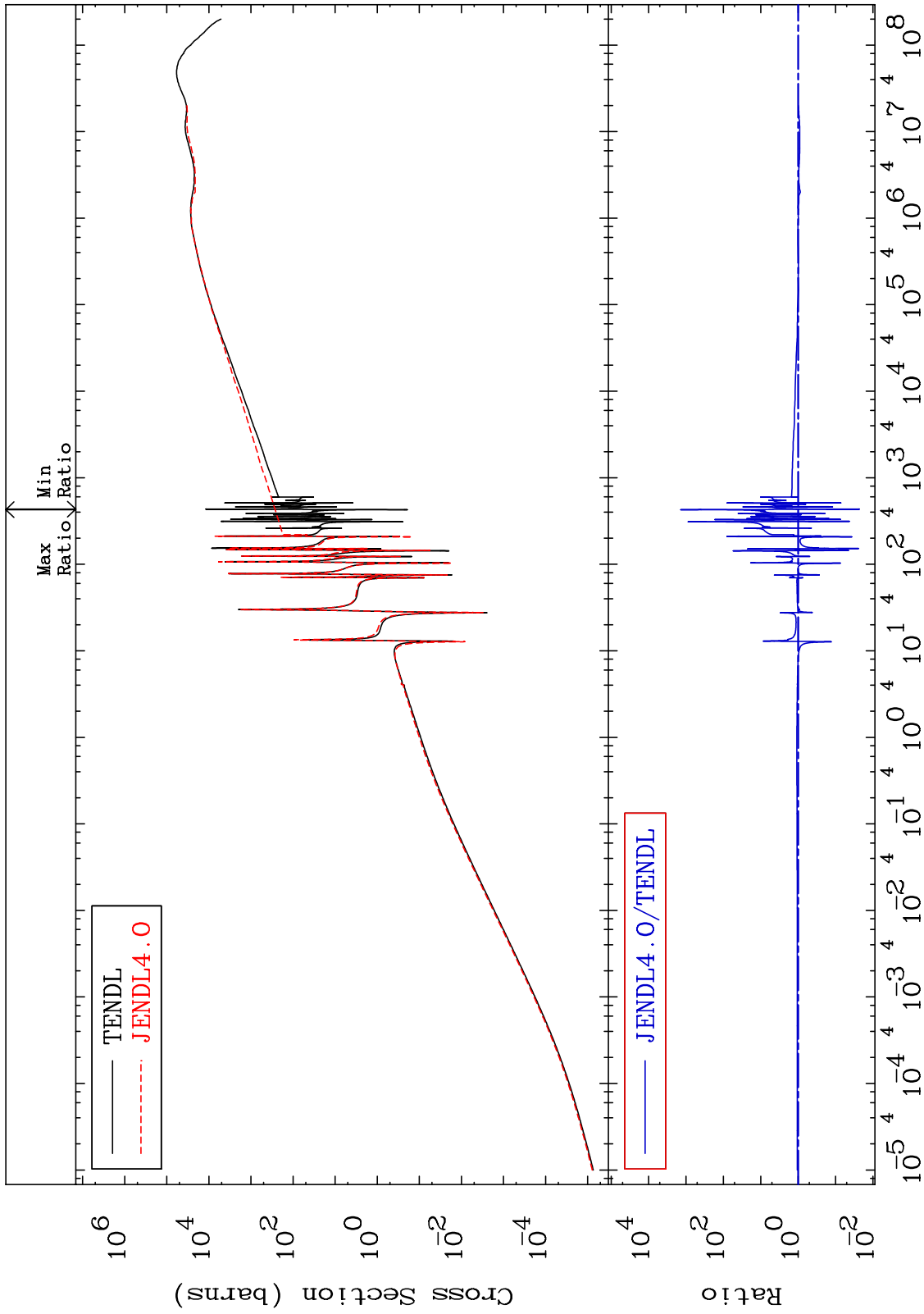
MAT 7225 Kerma total (eV-barns) 72-Hf-174
 Cross Section -9999. To 646.2 %



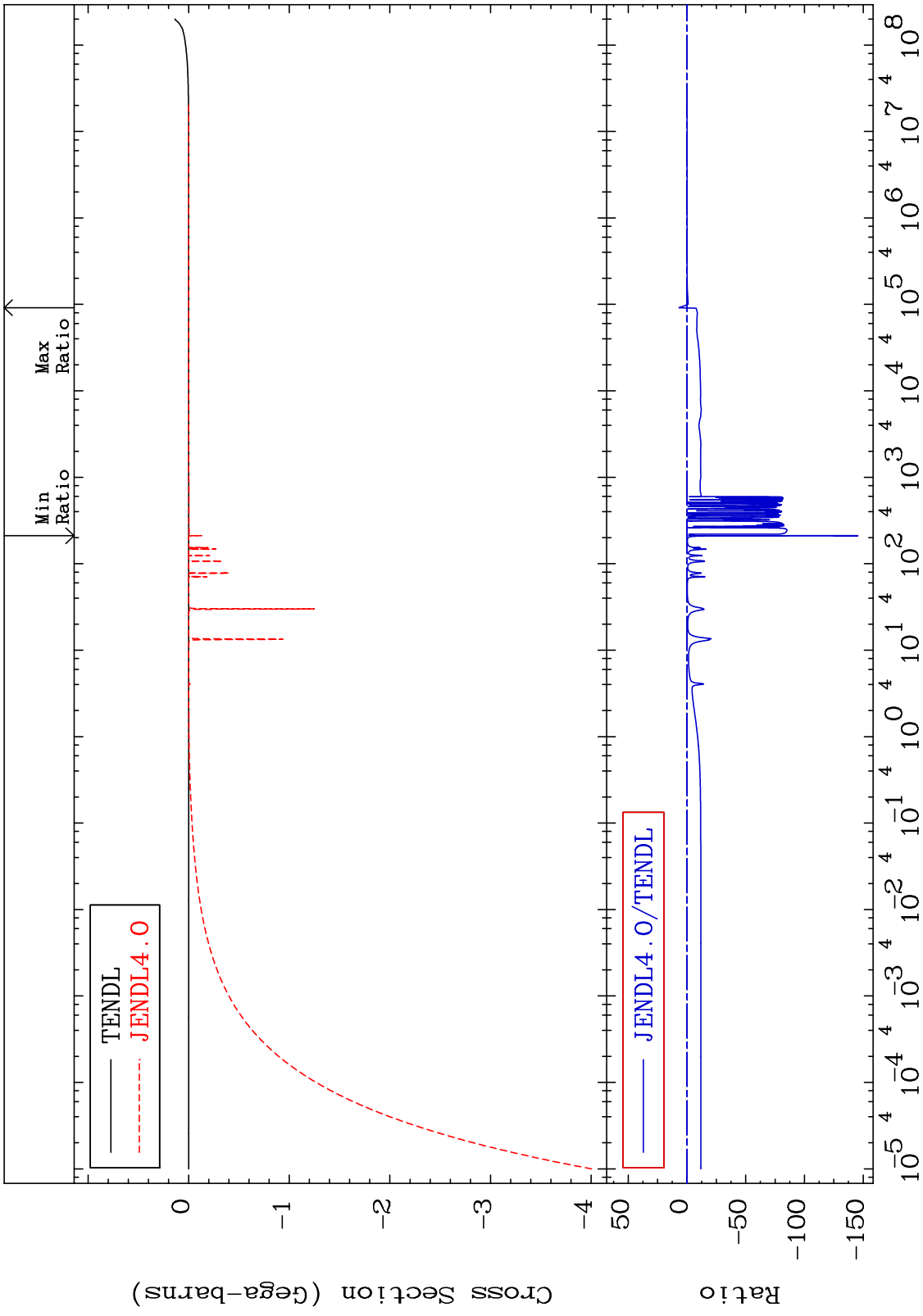
MAT 7225

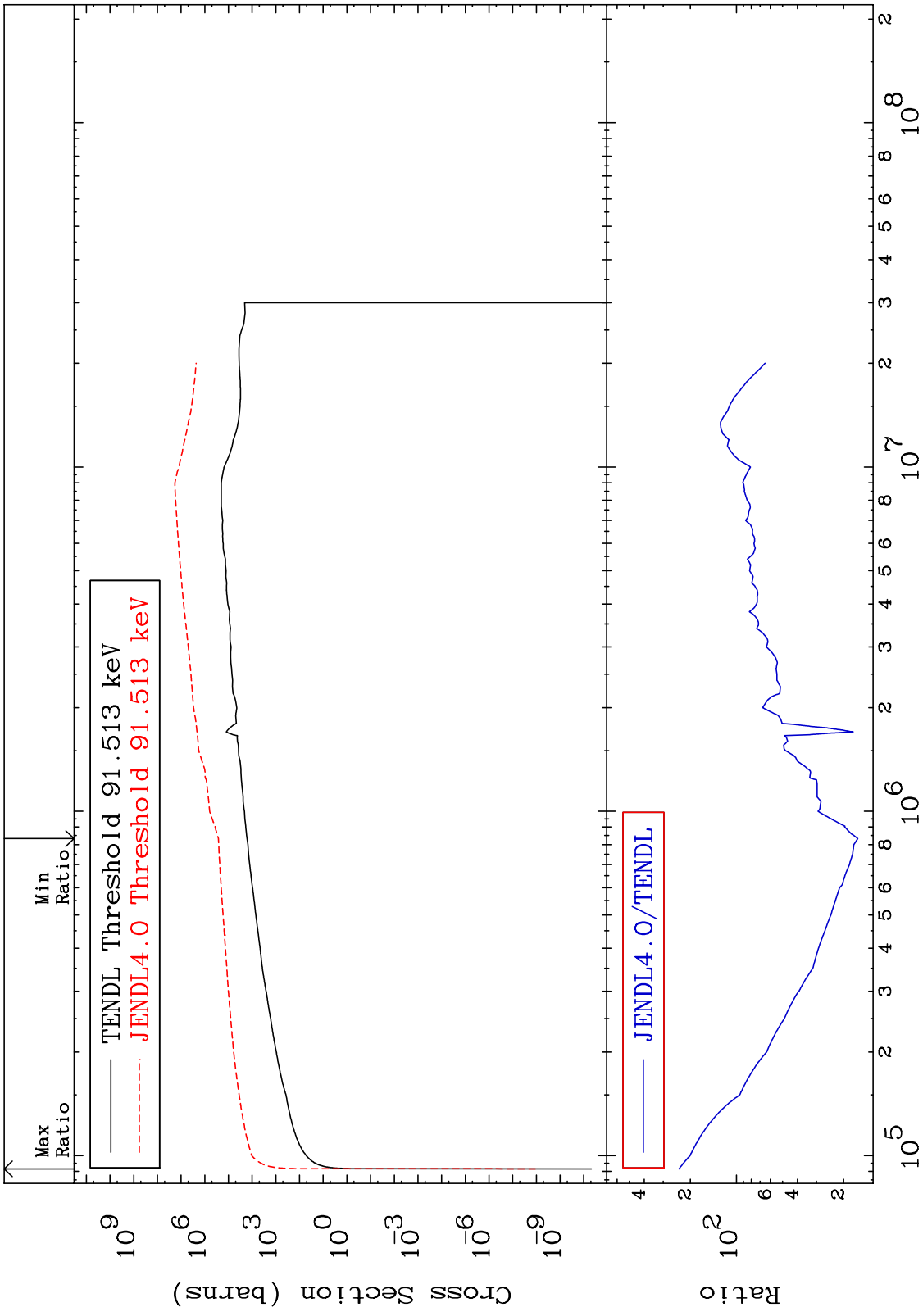
Kerma elastic
Cross Section

72-Hf-174
-97.75 To 9999. %



MAT 7225 Kerma non-elastic (all but mt2) 72-Hf-174
 Cross Section -9999. To 9999. %

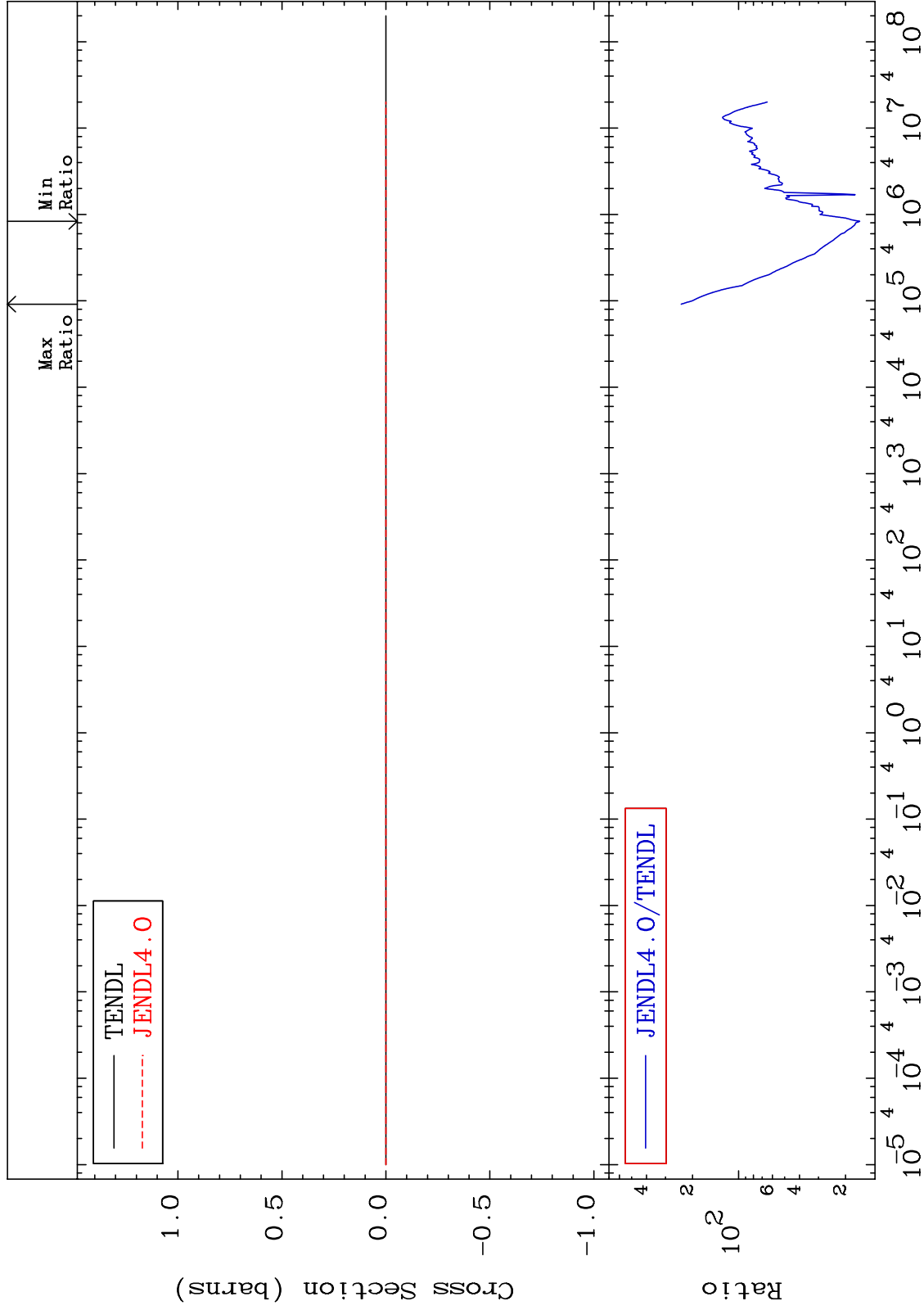


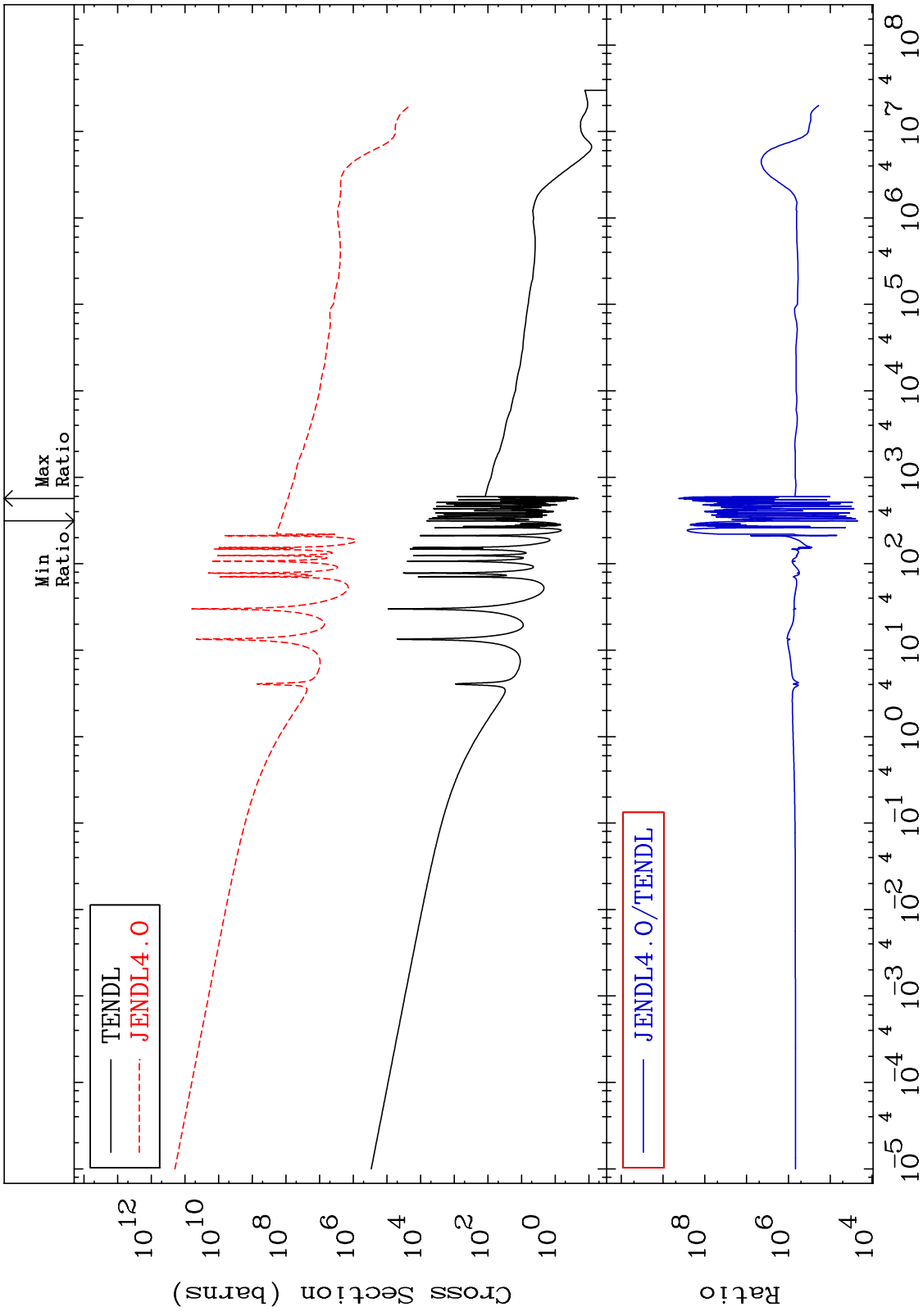


MAT 7225

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

72-Hf-174
1513. To 9999. %

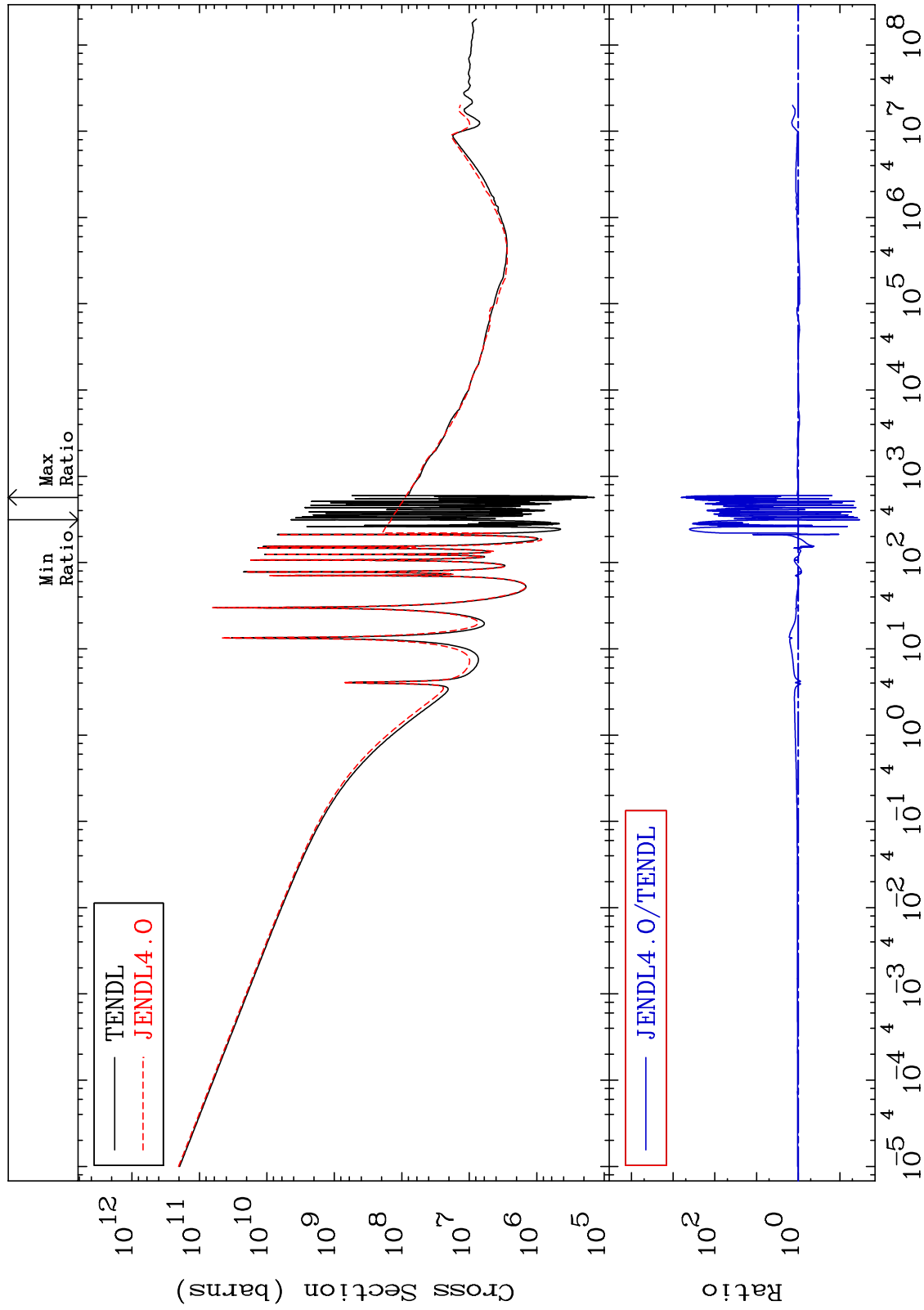




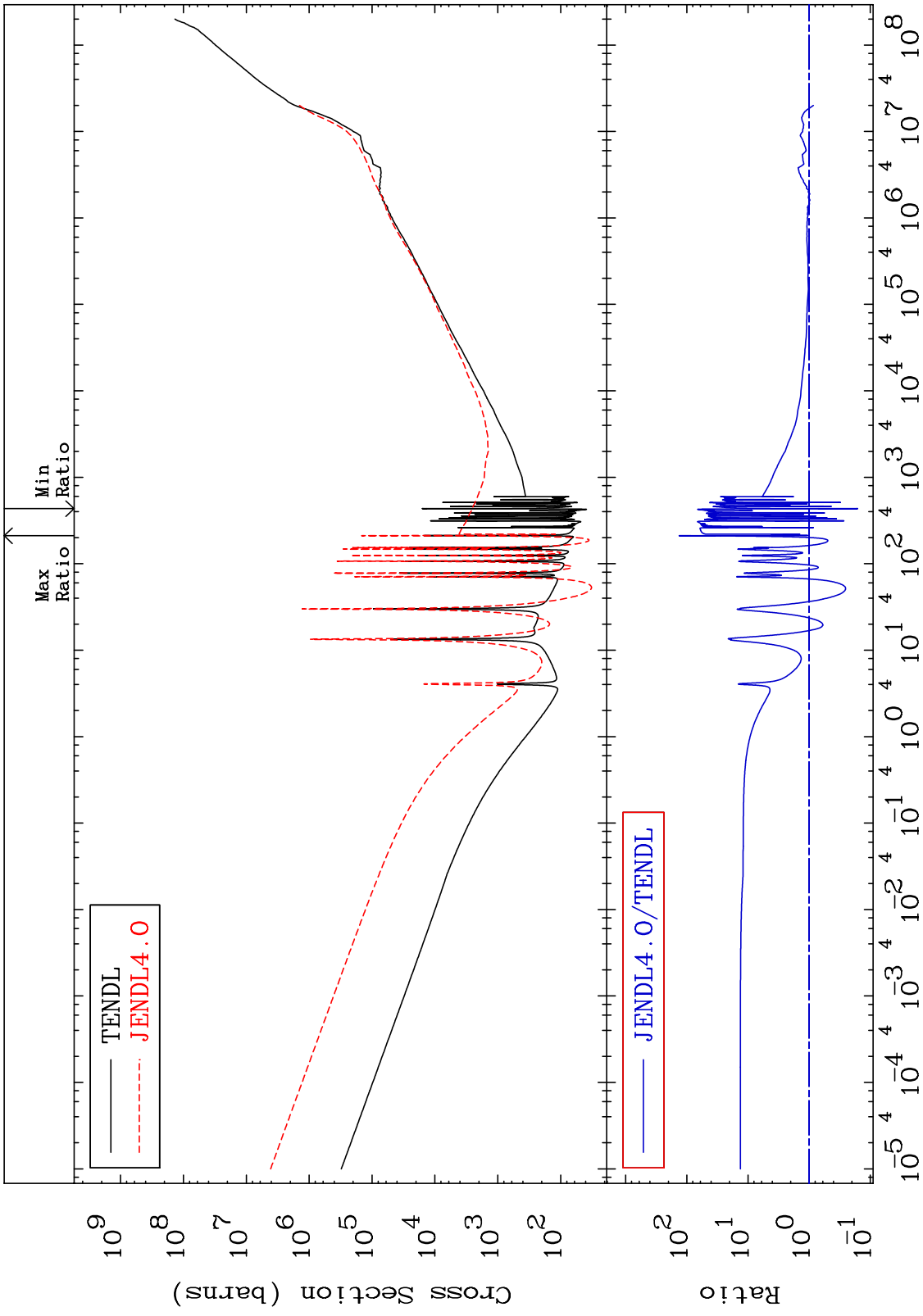
MAT 7225

Total photon (eV-barns)
Cross Section

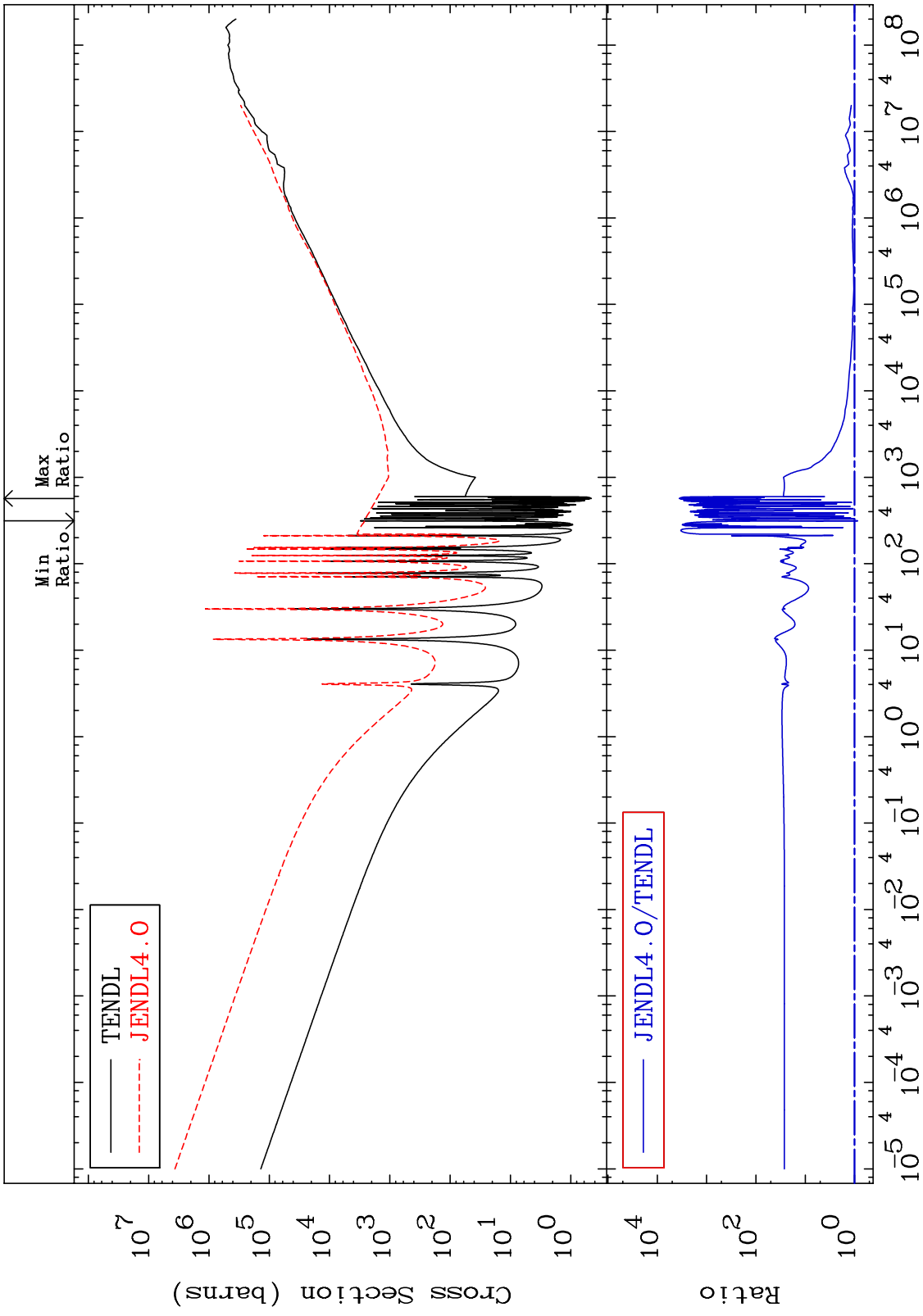
72-Hf-174
-96.68 To 9999. %



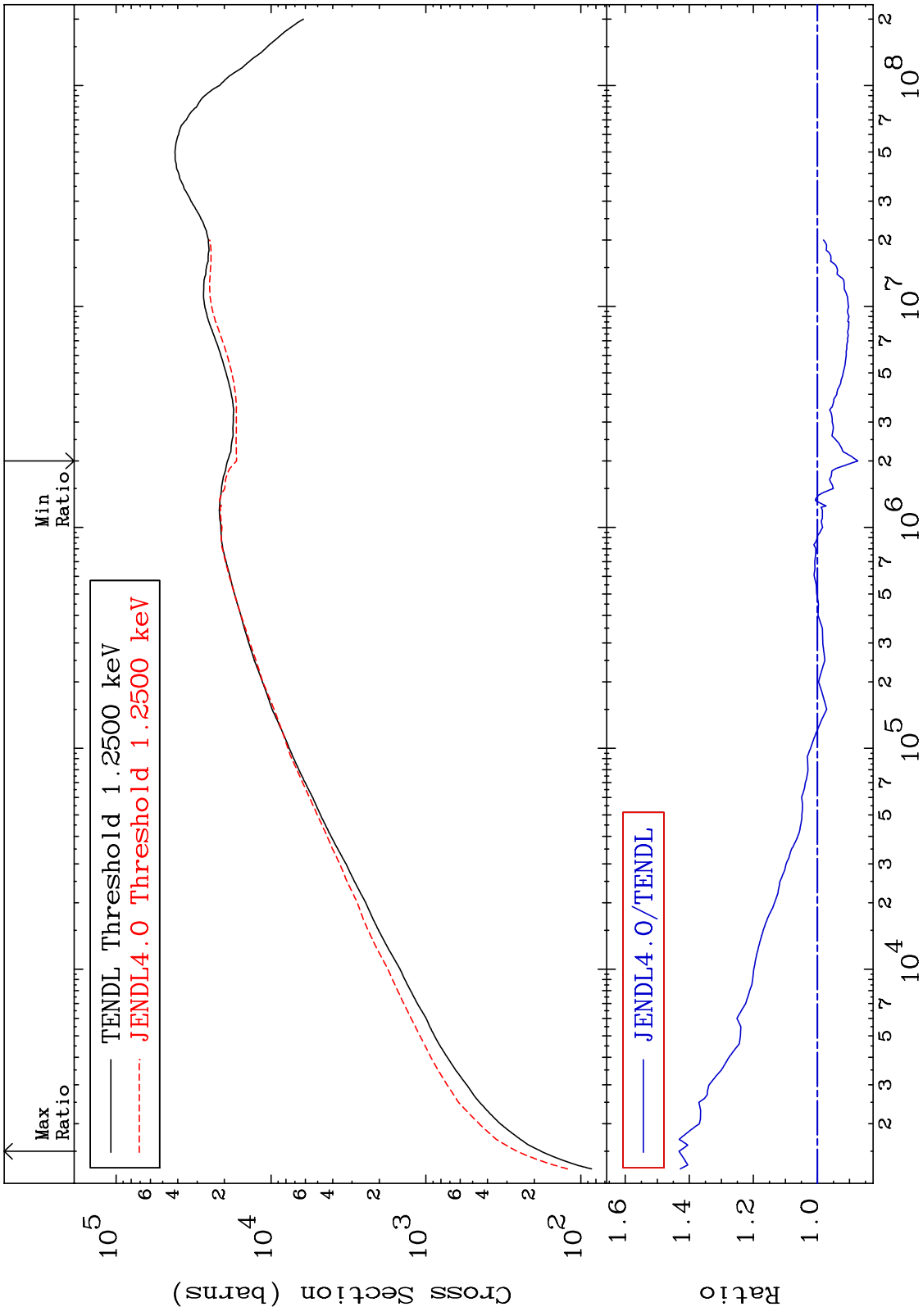
MAT 7225 Total kinematic kerma (high limit) 72-Hf-174
 Cross Section -84.00 To 9999. %



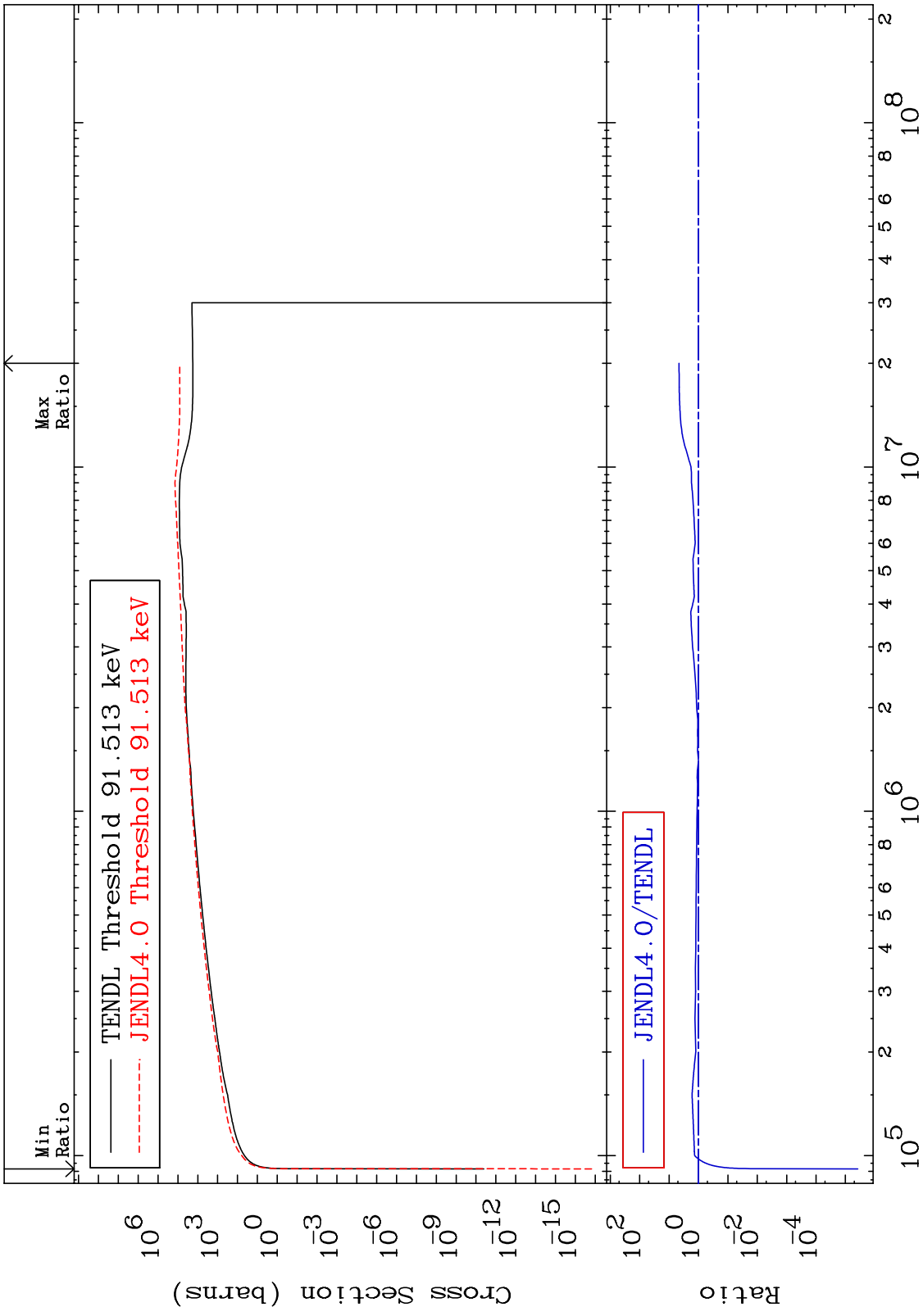
MAT 7225 Dpa total (eV-barns) 72-Hf-174
 -14.02 To 9999. %



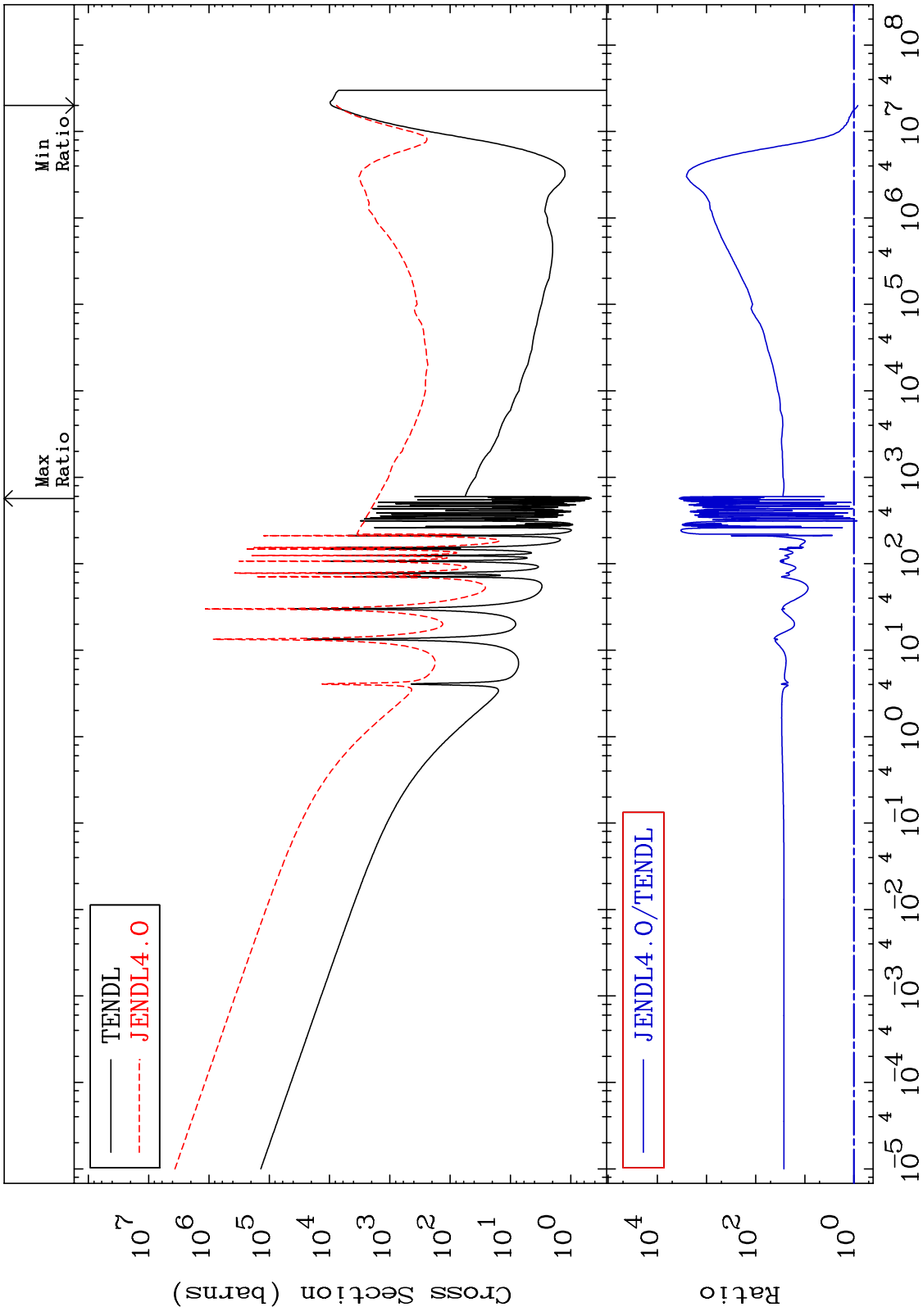
MAT 7225 Dpa elastic (mt2) 72-Hf-174
 Cross Section -12.61 To 43.21 %



MAT 7225 Dpa inelastic (mt51-91) 72-Hf-174
 Cross Section -100.0 To 359.3 %



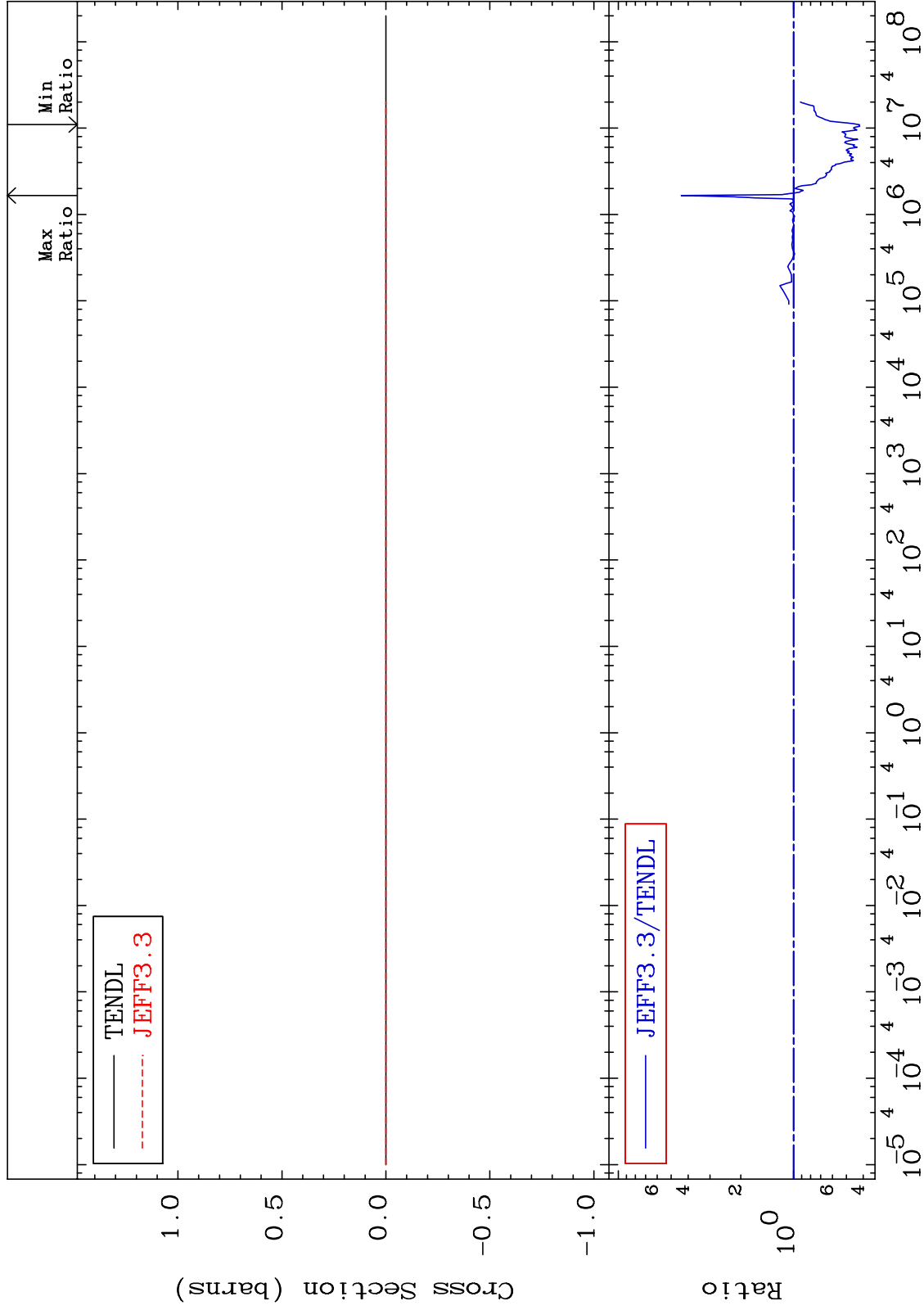
MAT 7225 Dpa disappearance (mt102 -120) 72-Hf-174
 Cross Section -16.64 To 9999. %



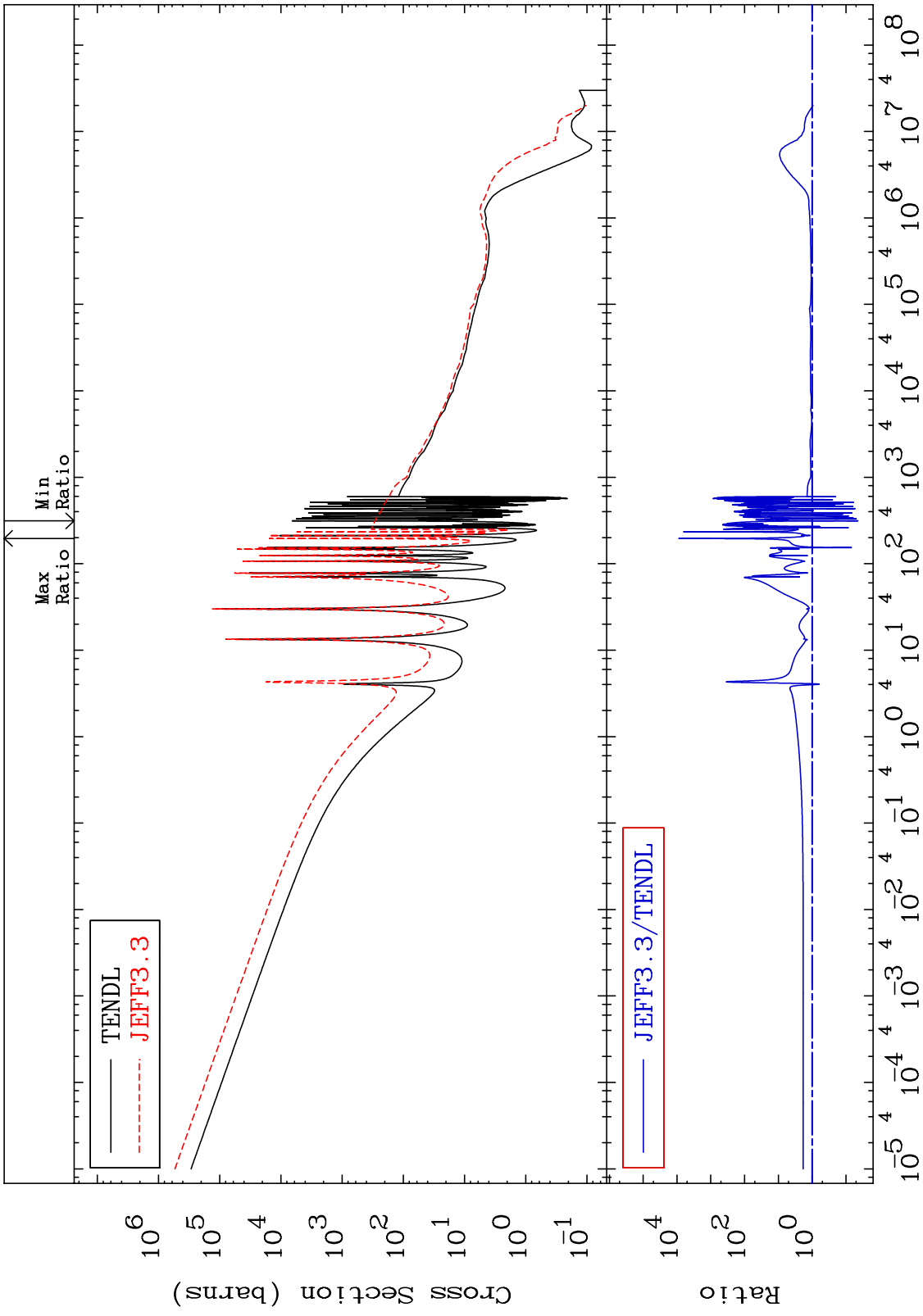
MAT 7225

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

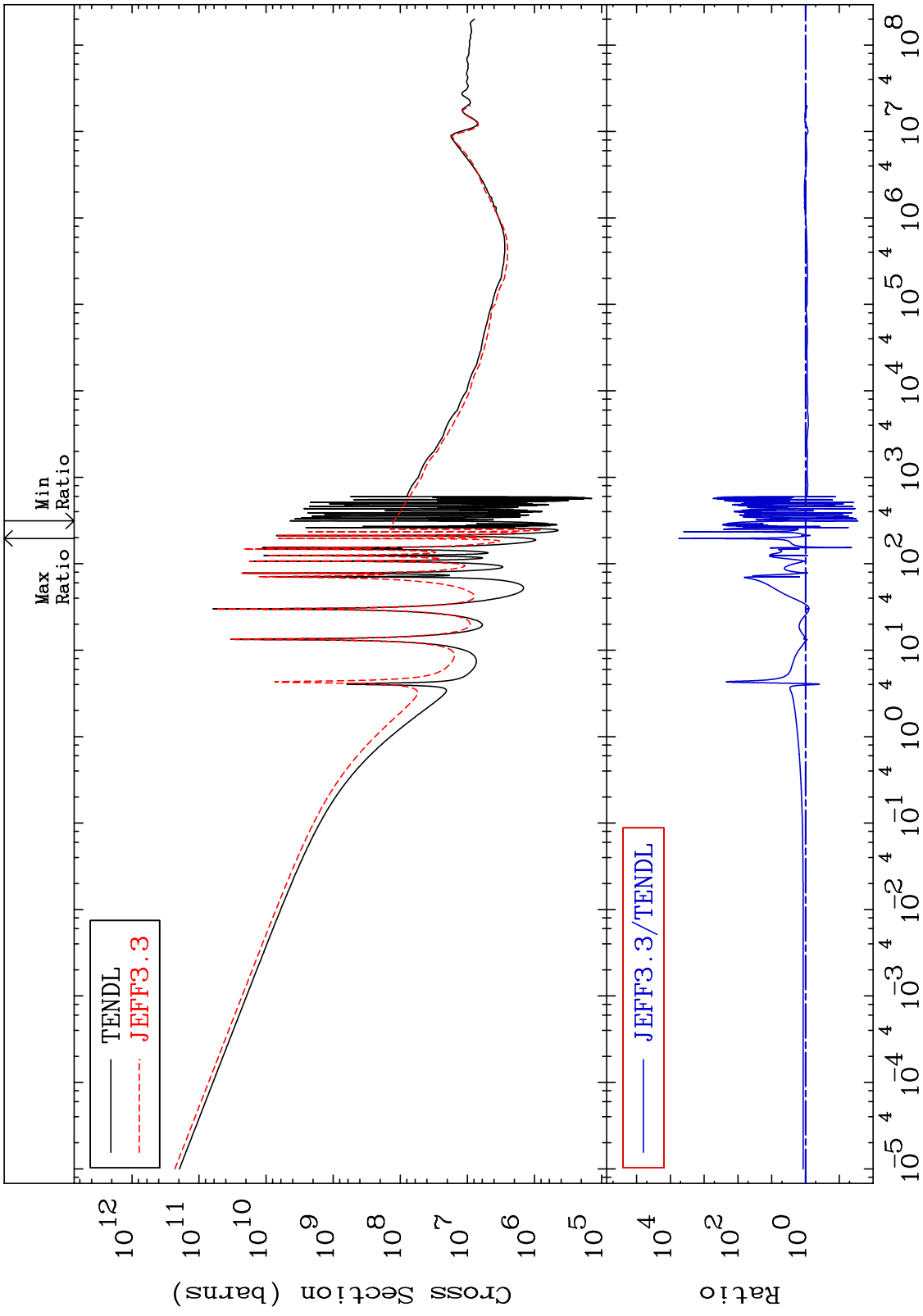
72-Hf-174
-58.09 To 337.8 %



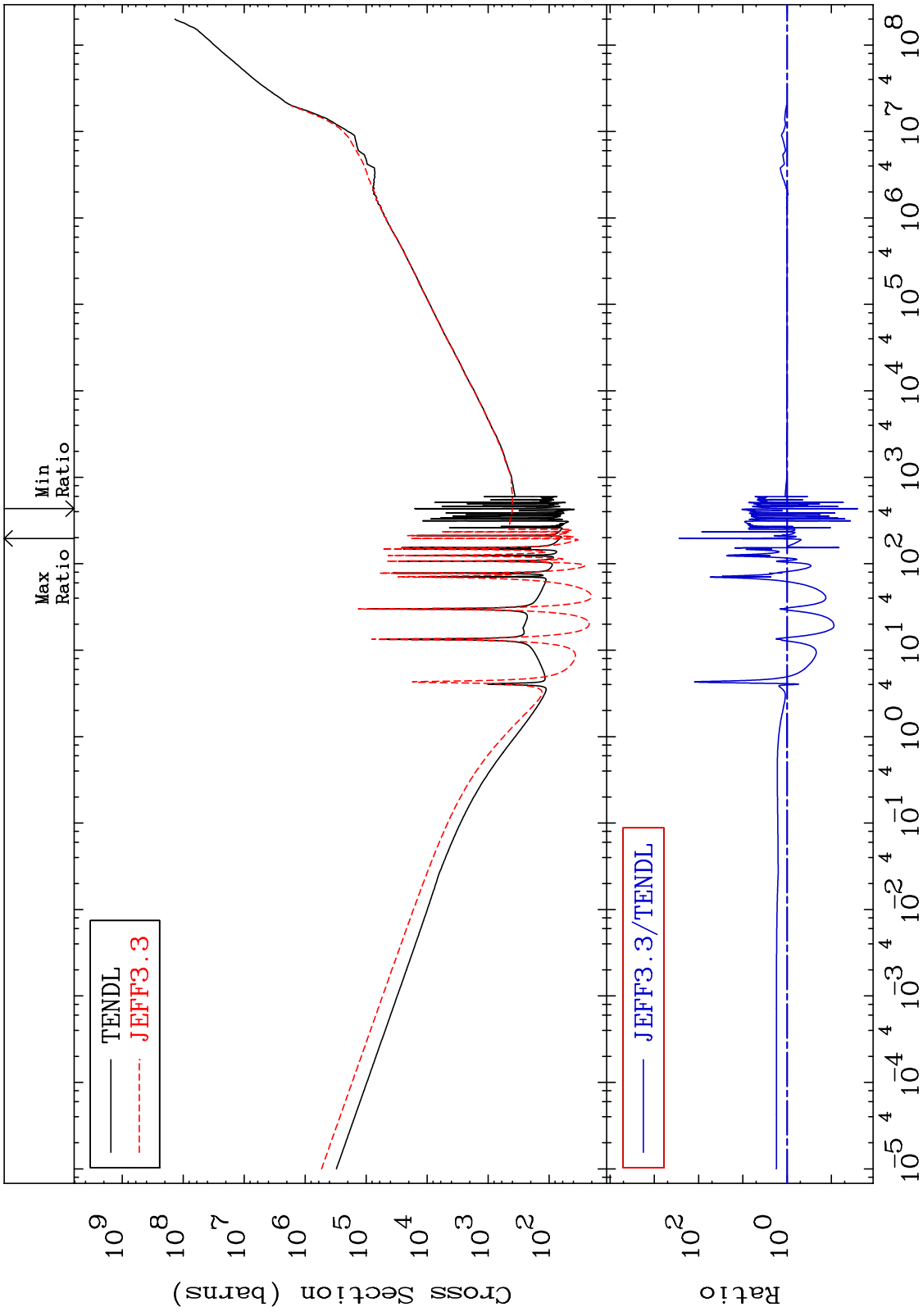
MAT 7225 Kerma capture (mt102) 72-Hf-174
 -95.56 To 9999. %
 Cross Section



MAT 7225 72-Hf-174
 Total photon (eV-barns) -97.18 To 9999. %
 Cross Section



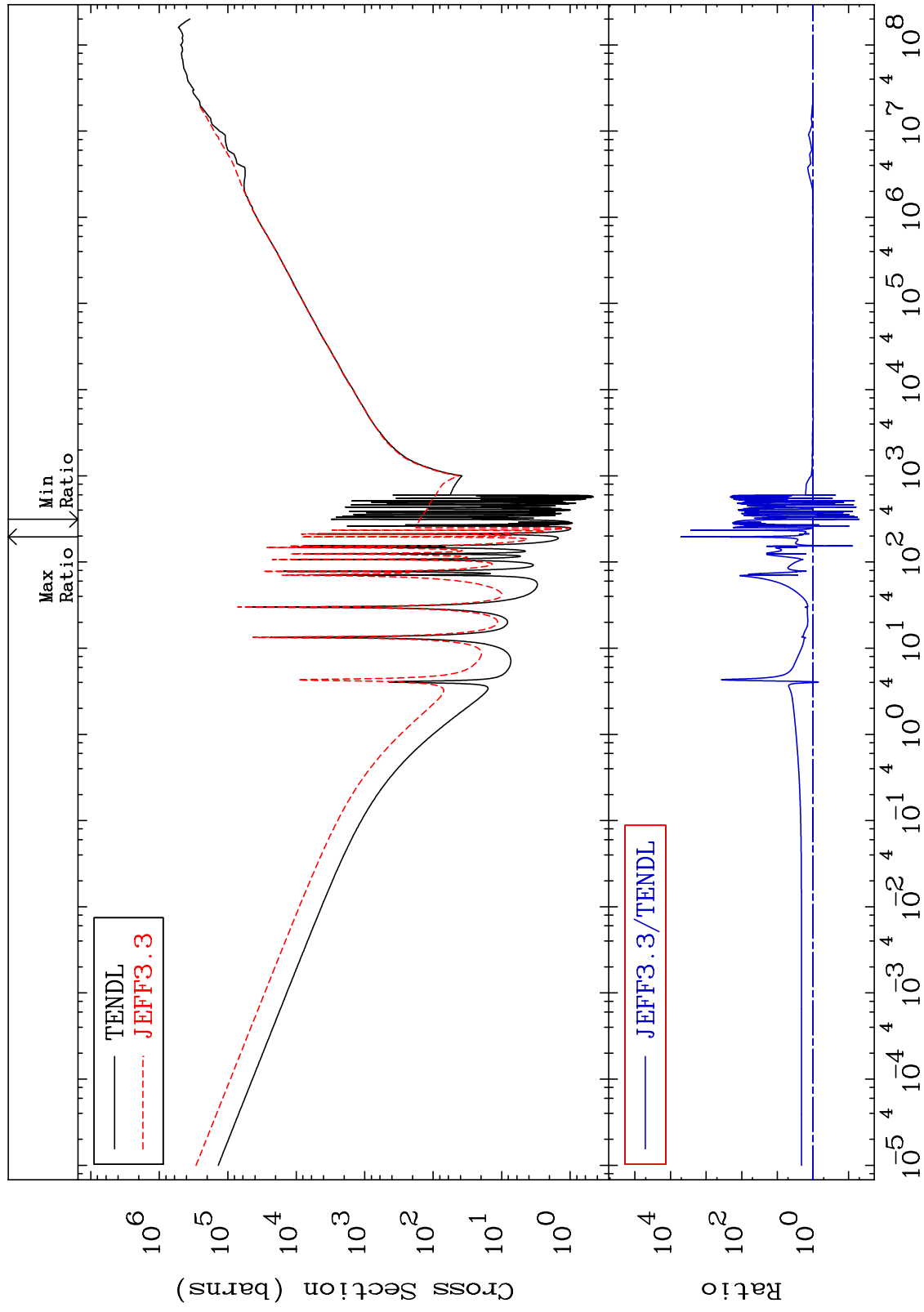
MAT 7225 Total kinematic kerma (high limit) Cross Section 72-Hf-174 -97.48 To 9999. %

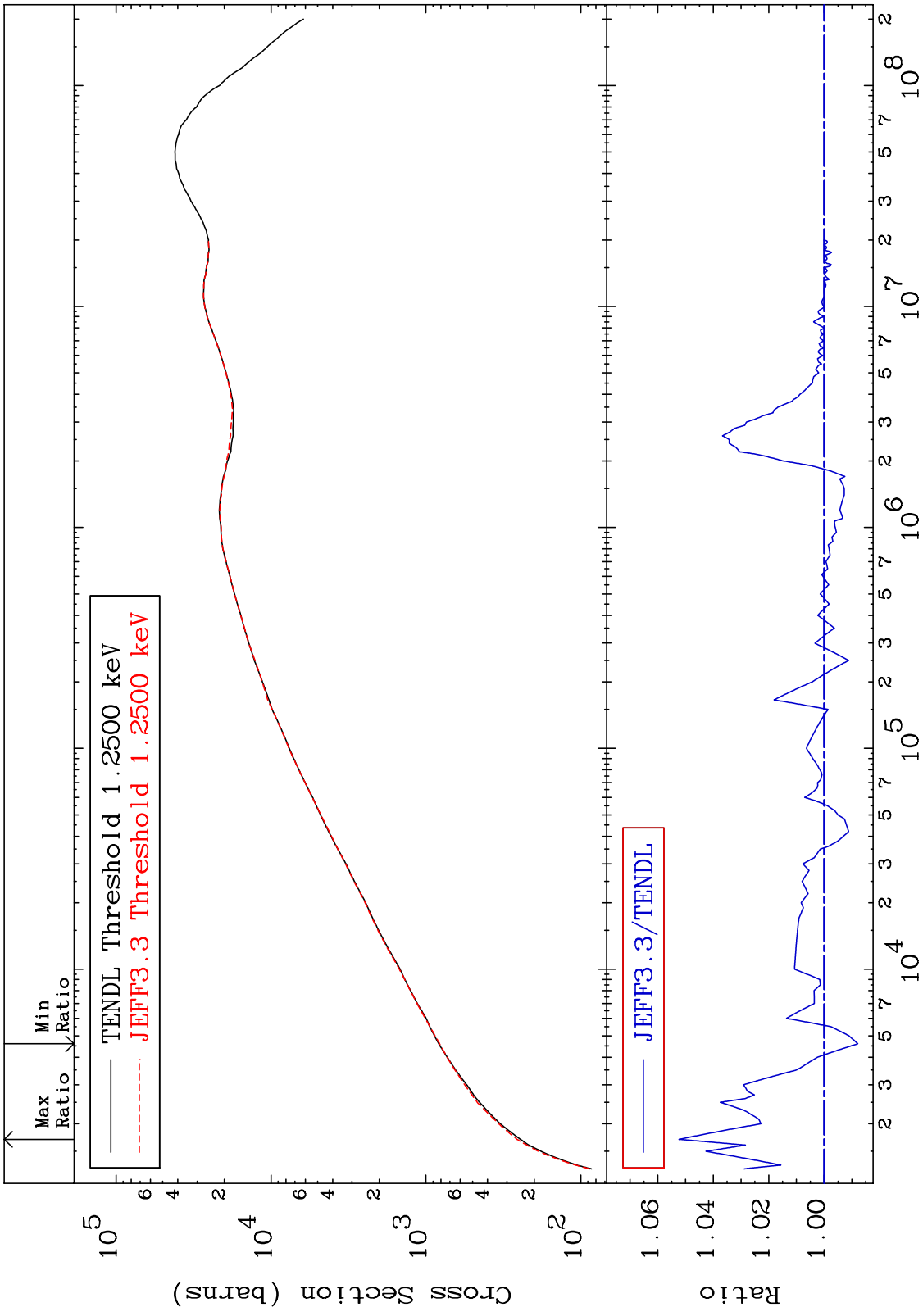


MAT 7225

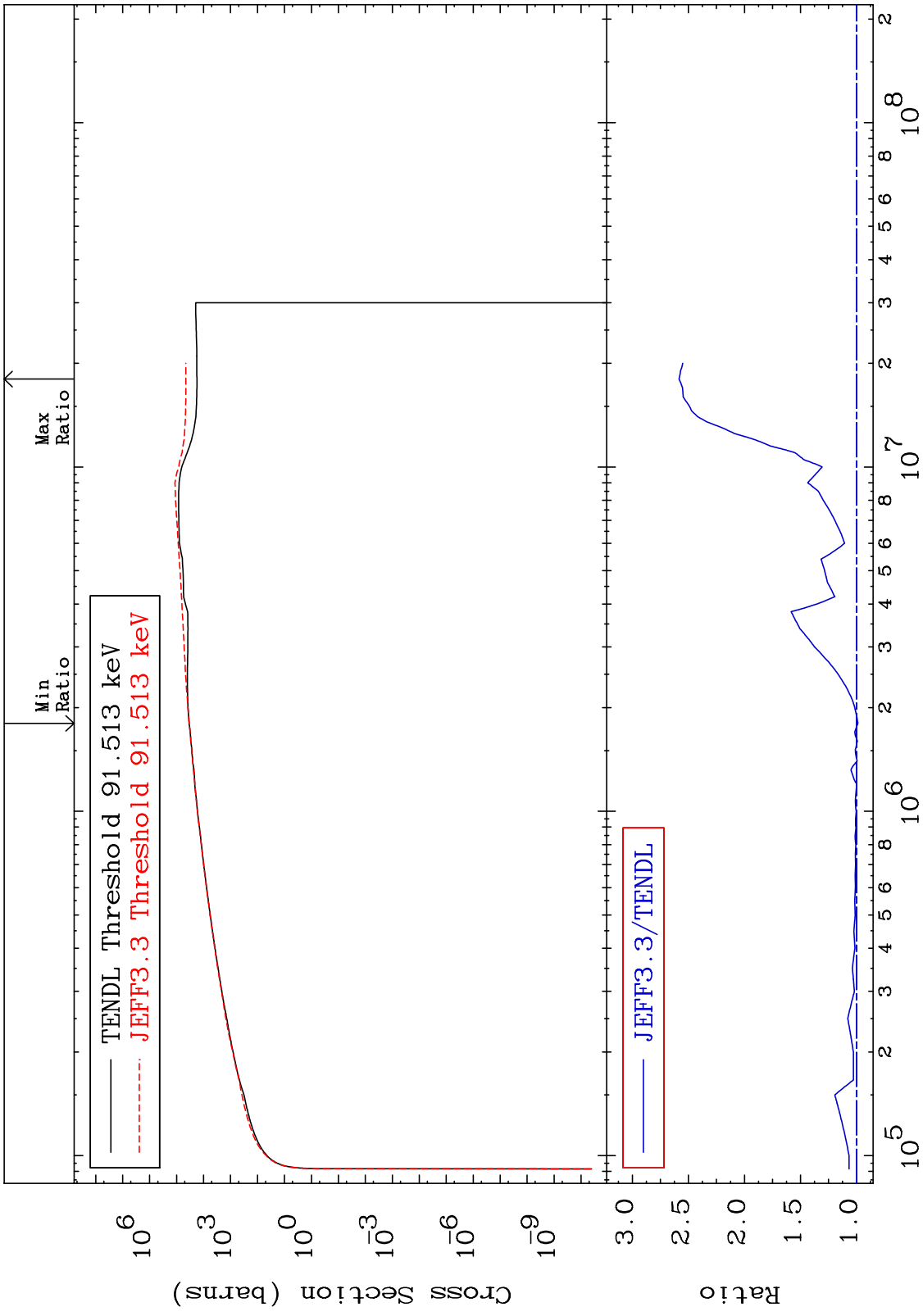
Dpa total (eV-barns)
Cross Section

72-Hf-174
-94.91 To 9999. %



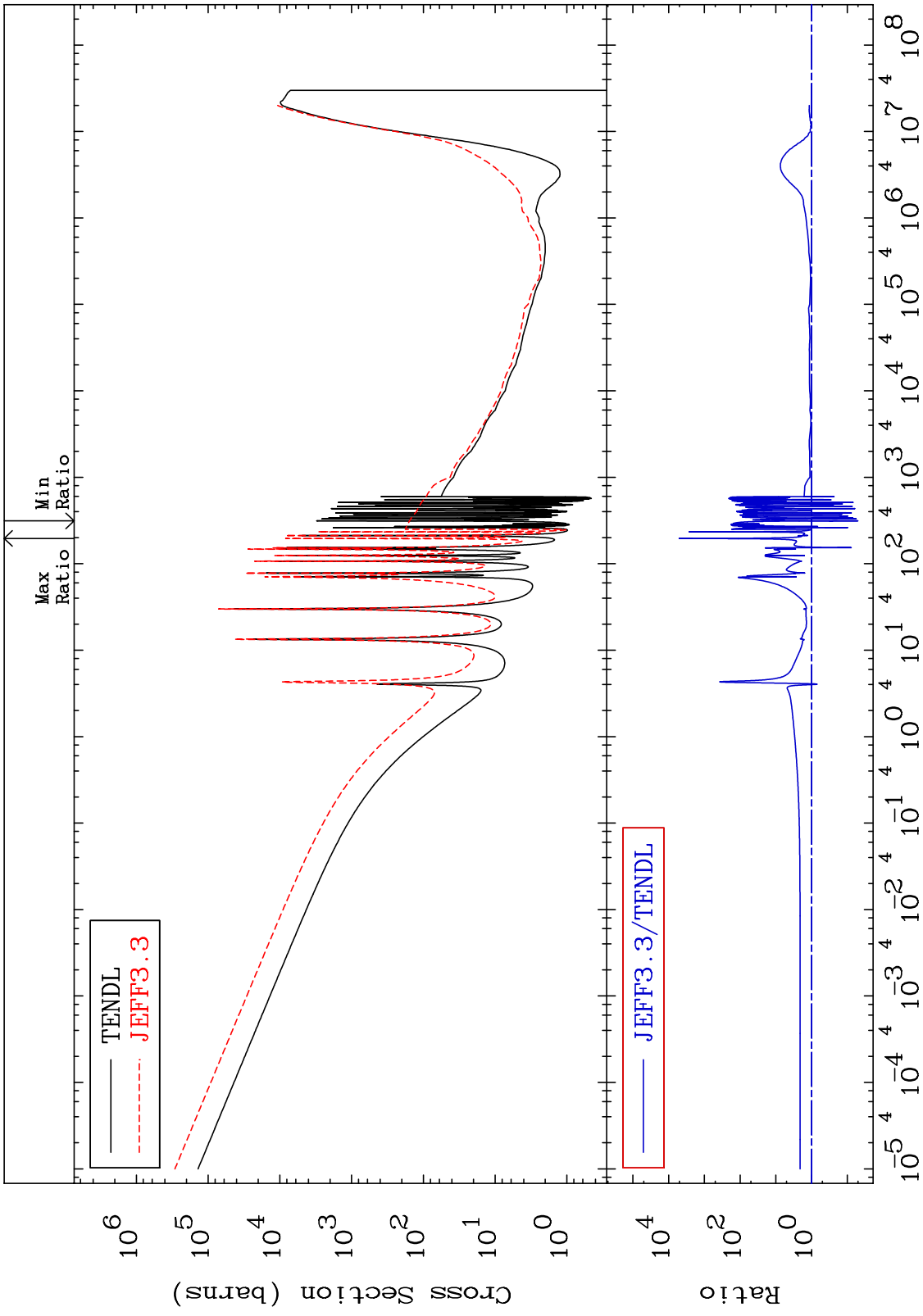


MAT 7225 Dpa inelastic (mt51-91) 72-Hf-174
 Cross Section -1.189 To 158.4 %

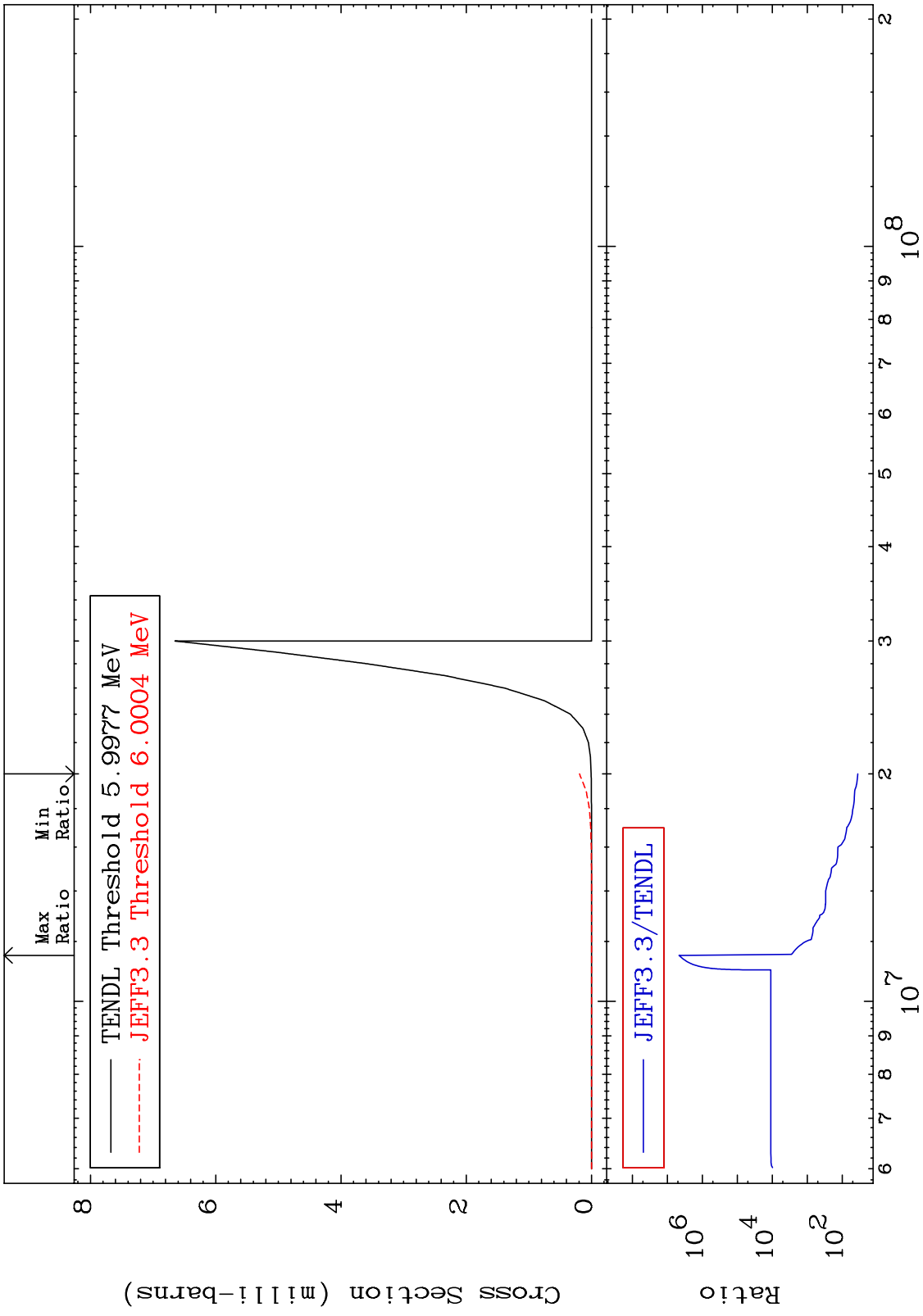


69 Incident Energy (eV) 72-Hf-174

MAT 7225 Dpa disappearance (mt102 -120) 72-Hf-174
 -94.91 To 9999. %
 Cross Section



70 Incident Energy (eV) 72-Hf-174

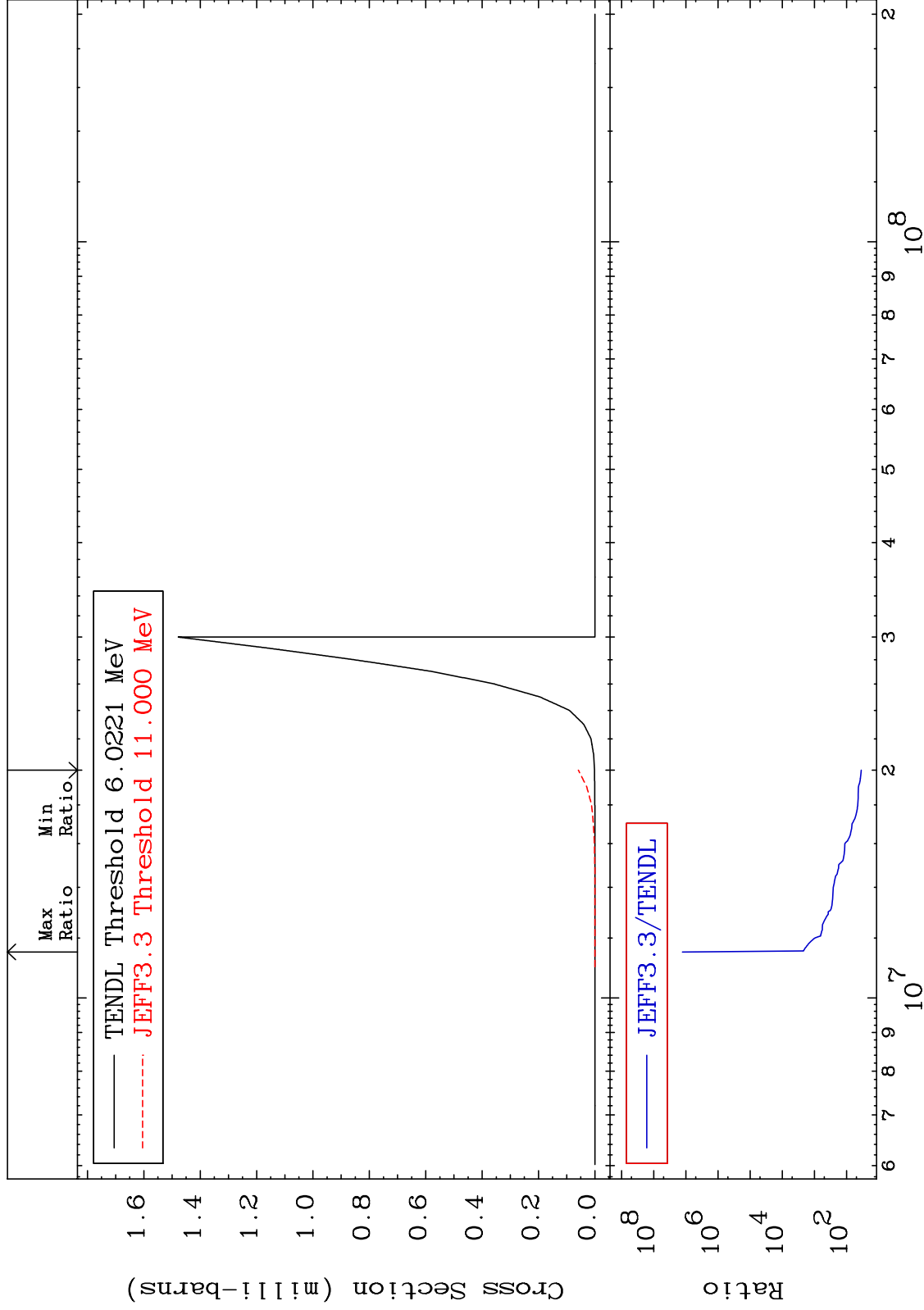


MAT 7225

(n,2n) α :70-Yb-169m1

72-Hf-174

Radionuclide Production Cross Section 3415. To 9999. %

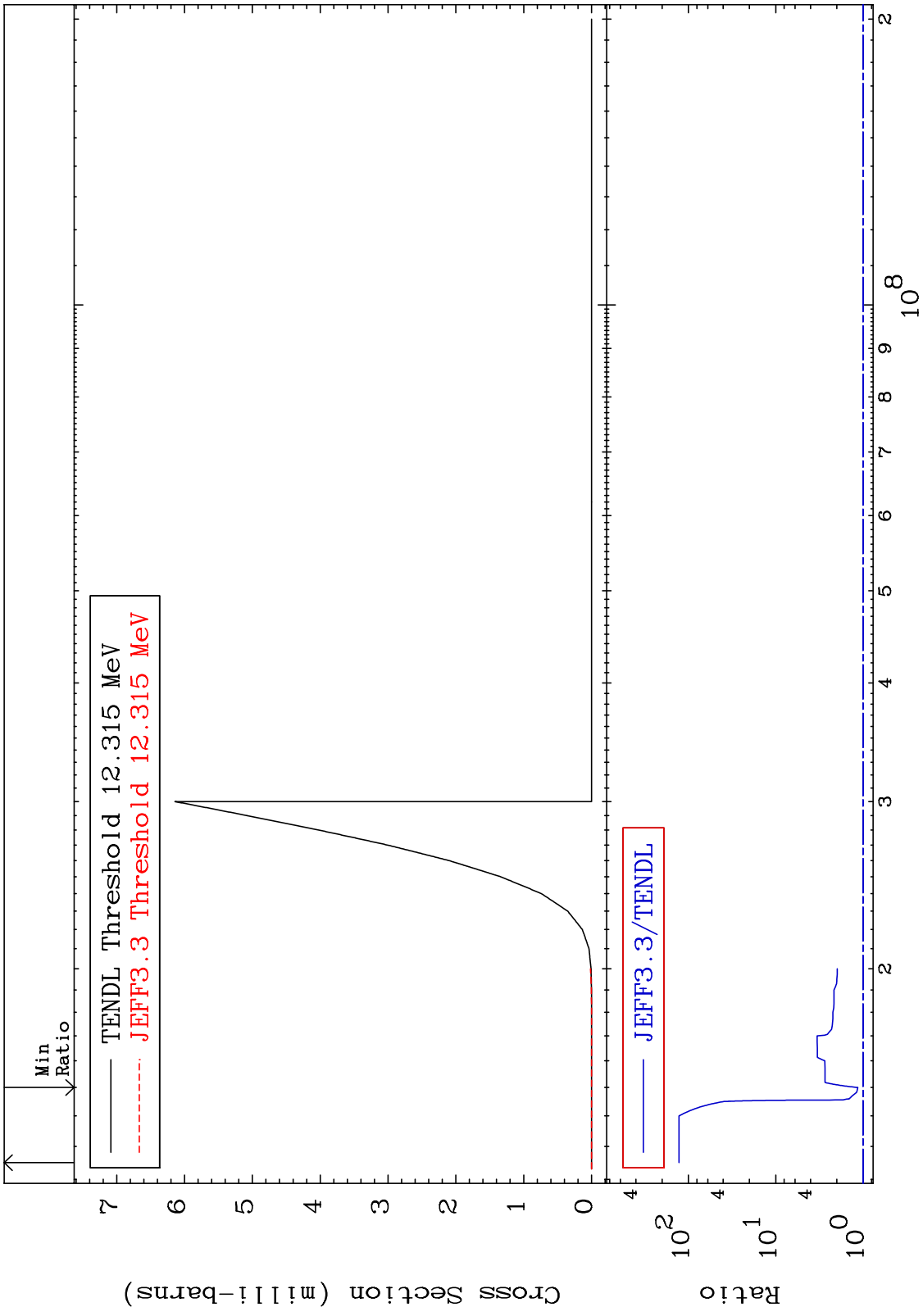


72

Incident Energy (eV)

72-Hf-174

MAT 7225 (n, n') d:71-Lu-172g 72-Hf-174
 Radionuclide Production Cross Section 14.74 To 9999. %

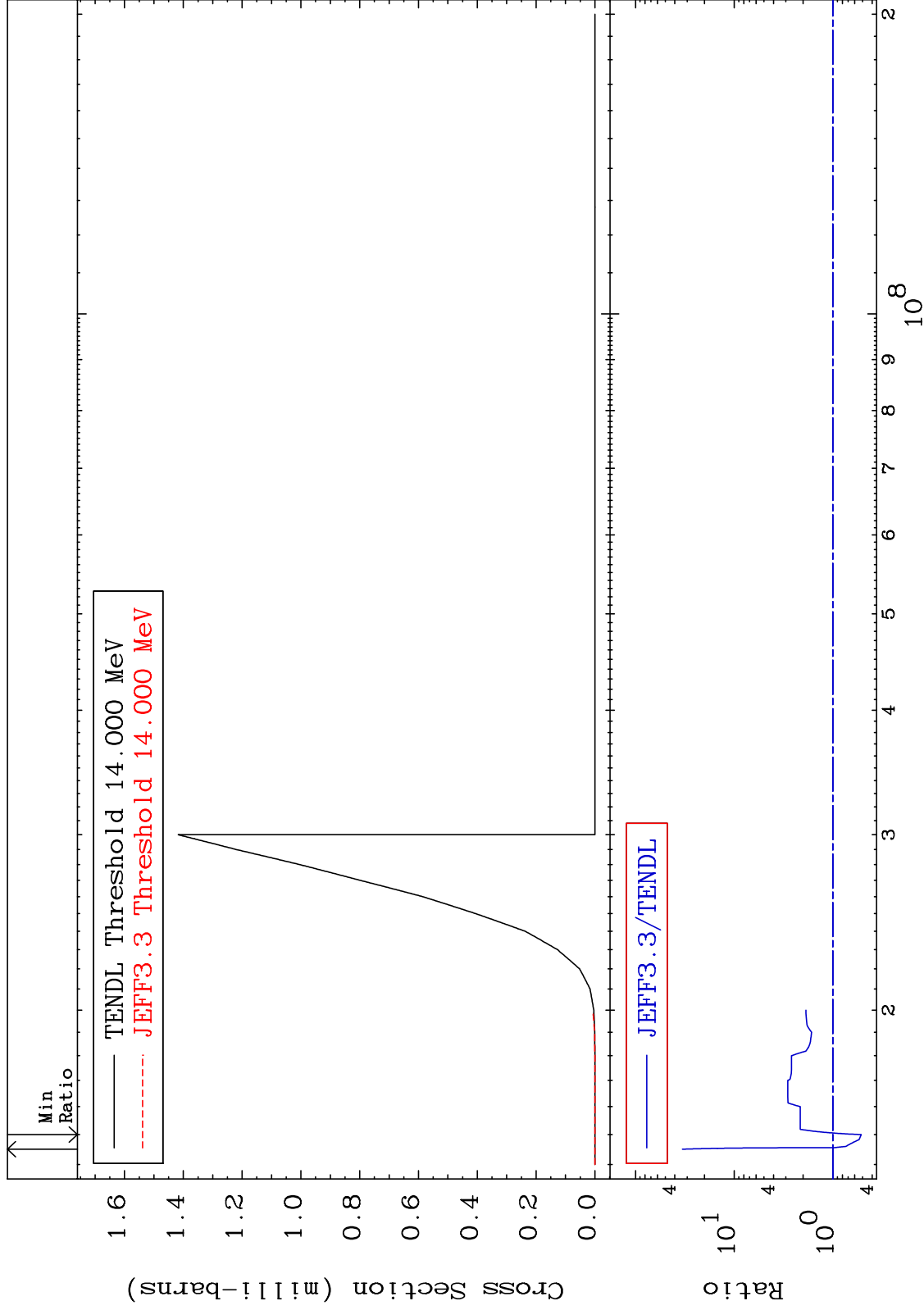


MAT 7225

(n, n') d:71-Lu-172m1

72-Hf-174

Radionuclide Production Cross Section -48.47 To 3245. %



74

Incident Energy (eV)

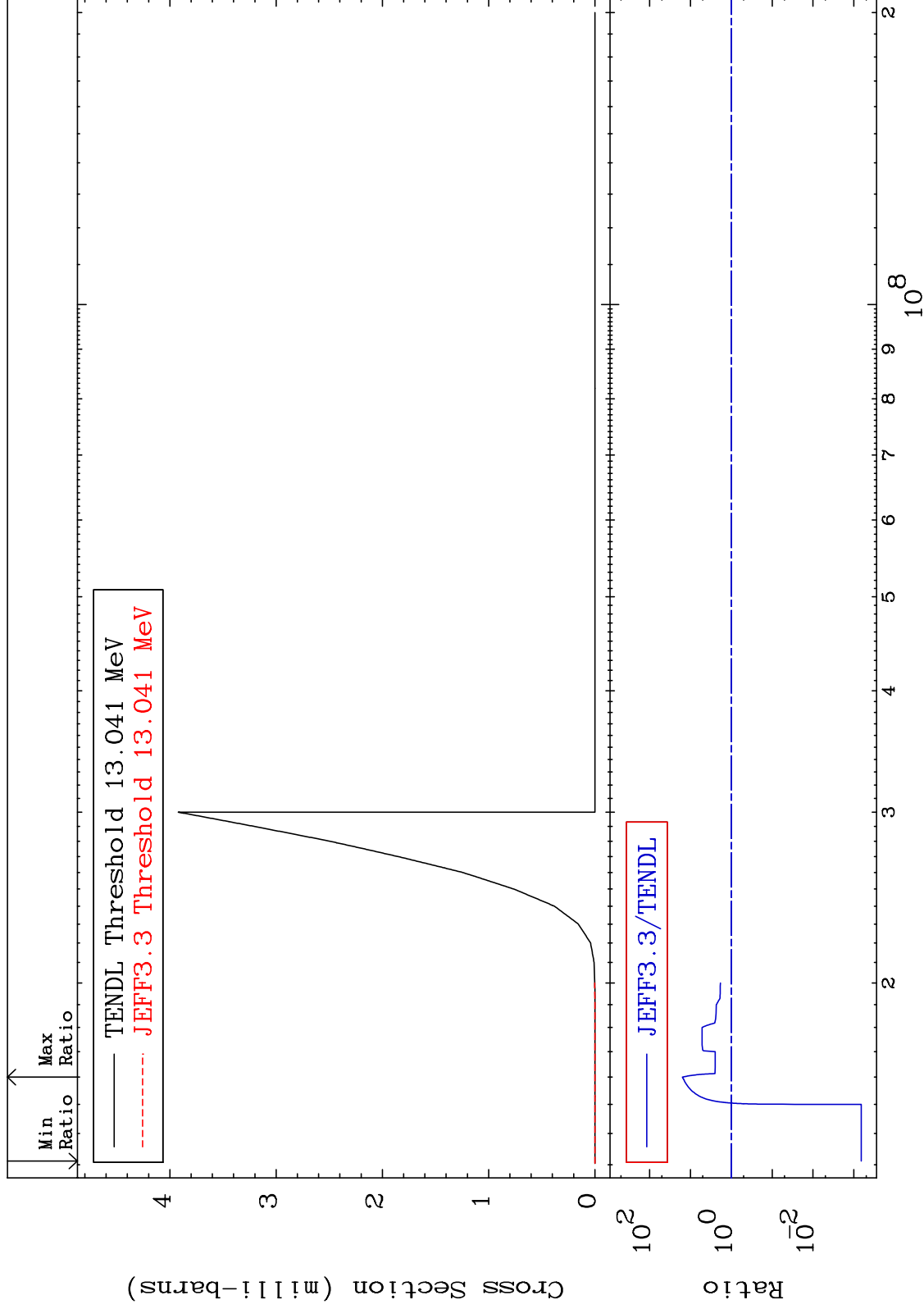
72-Hf-174

MAT 7225

(n, n') t:71-Lu-171g

72-Hf-174

Radionuclide Production Cross Section -99.93 To 1469. %



75

Incident Energy (eV)

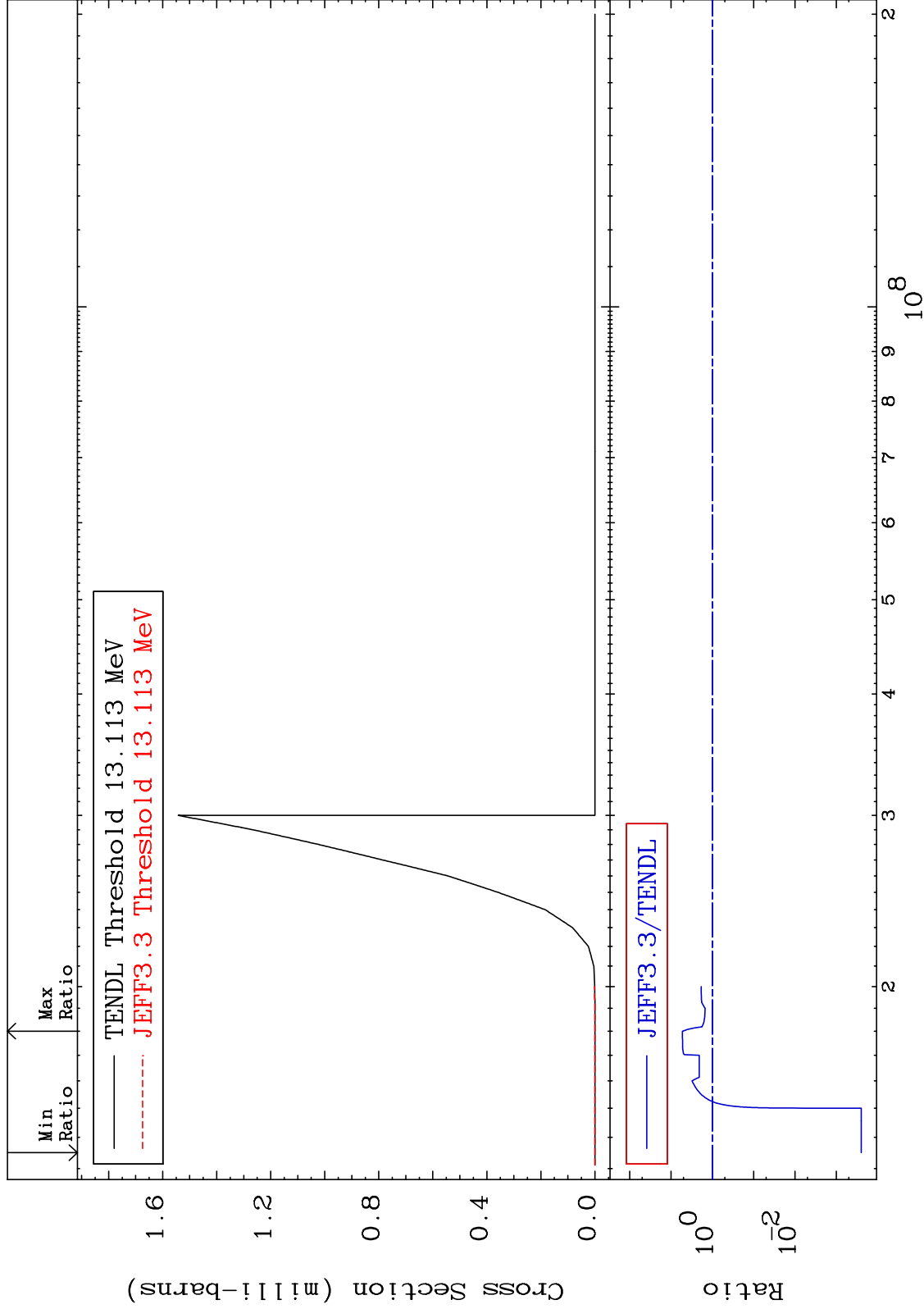
72-Hf-174

MAT 7225

(n,n') t:71-Lu-171m1

72-Hf-174

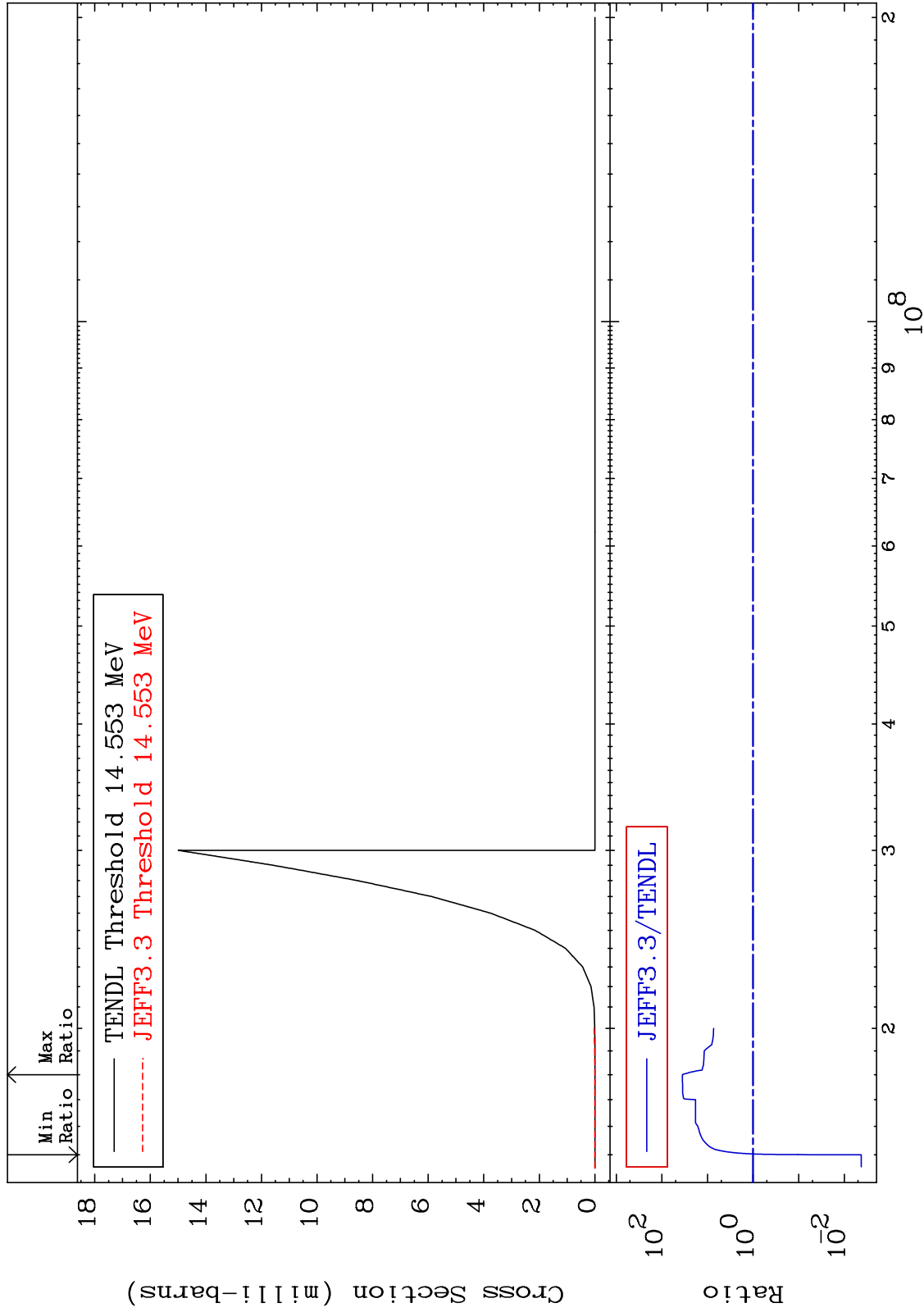
Radionuclide Production Cross Section -99.98 To 428.5 %



76

Incident Energy (eV)

72-Hf-174

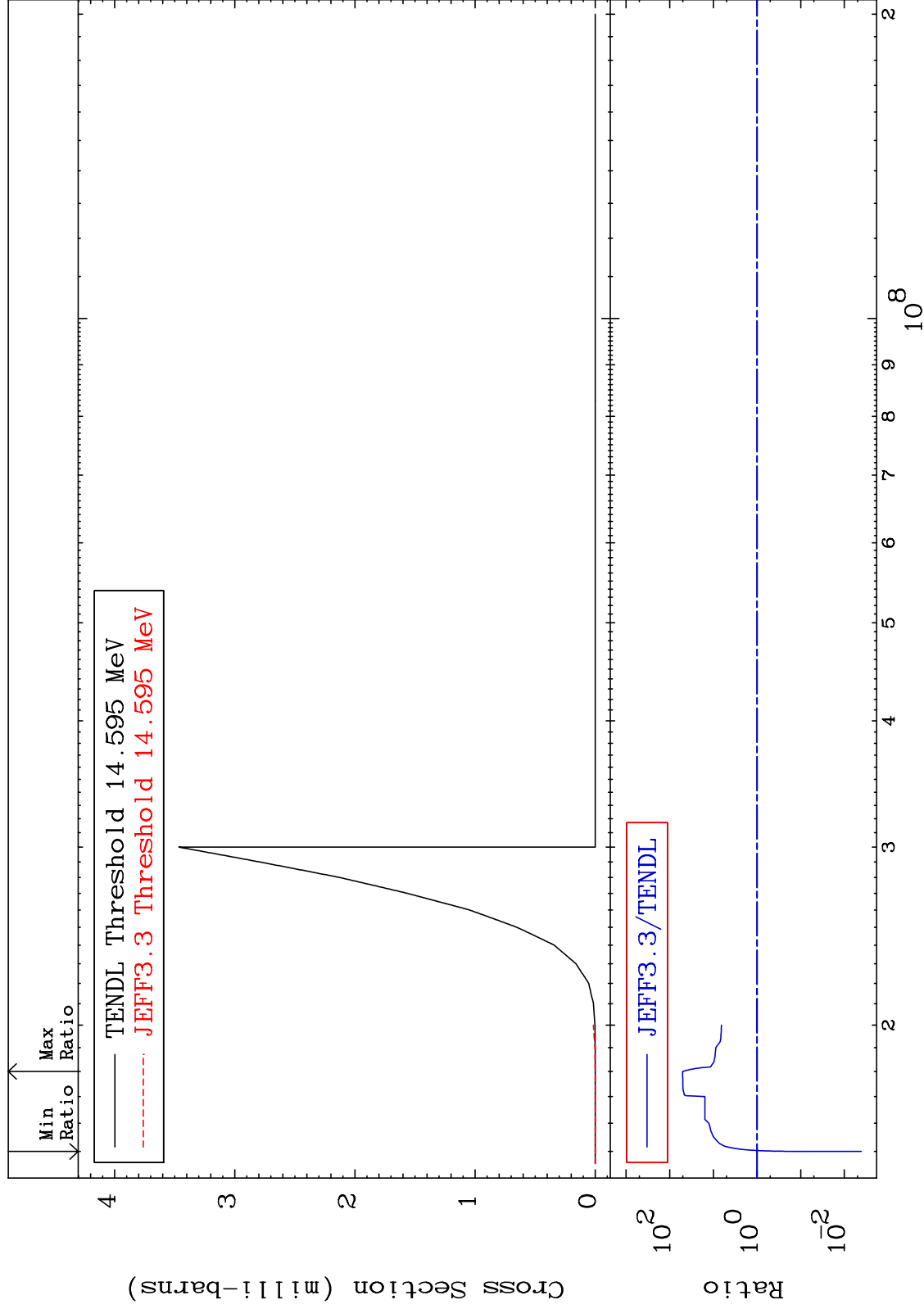


MAT 7225

(n,2n) p:71-Lu-172m1

72-Hf-174

Radionuclide Production Cross Section -99.59 To 4961. %

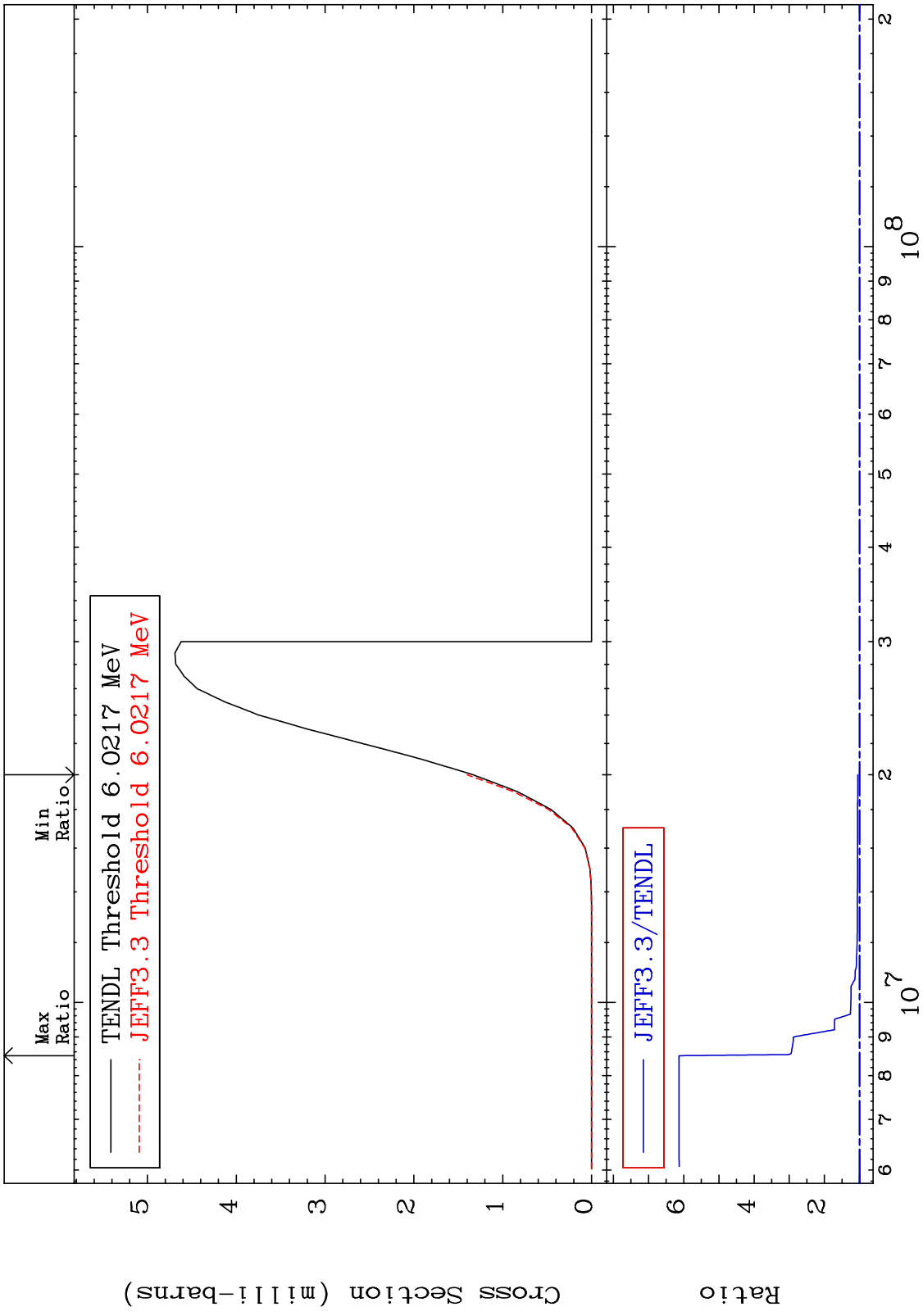


78

Incident Energy (eV)

72-Hf-174

MAT 7225 (n,t):71-Lu-172g 72-Hf-174
 Radionuclide Production Cross Section 4.988 To 513.3 %



79 72-Hf-174

MAT 7225 (n, t): 71-Lu-172m1 72-Hf-174
 Radionuclide Production Cross Section -10.46 To 82.21 %

