

Program Complot
(Version 2018-1)

by

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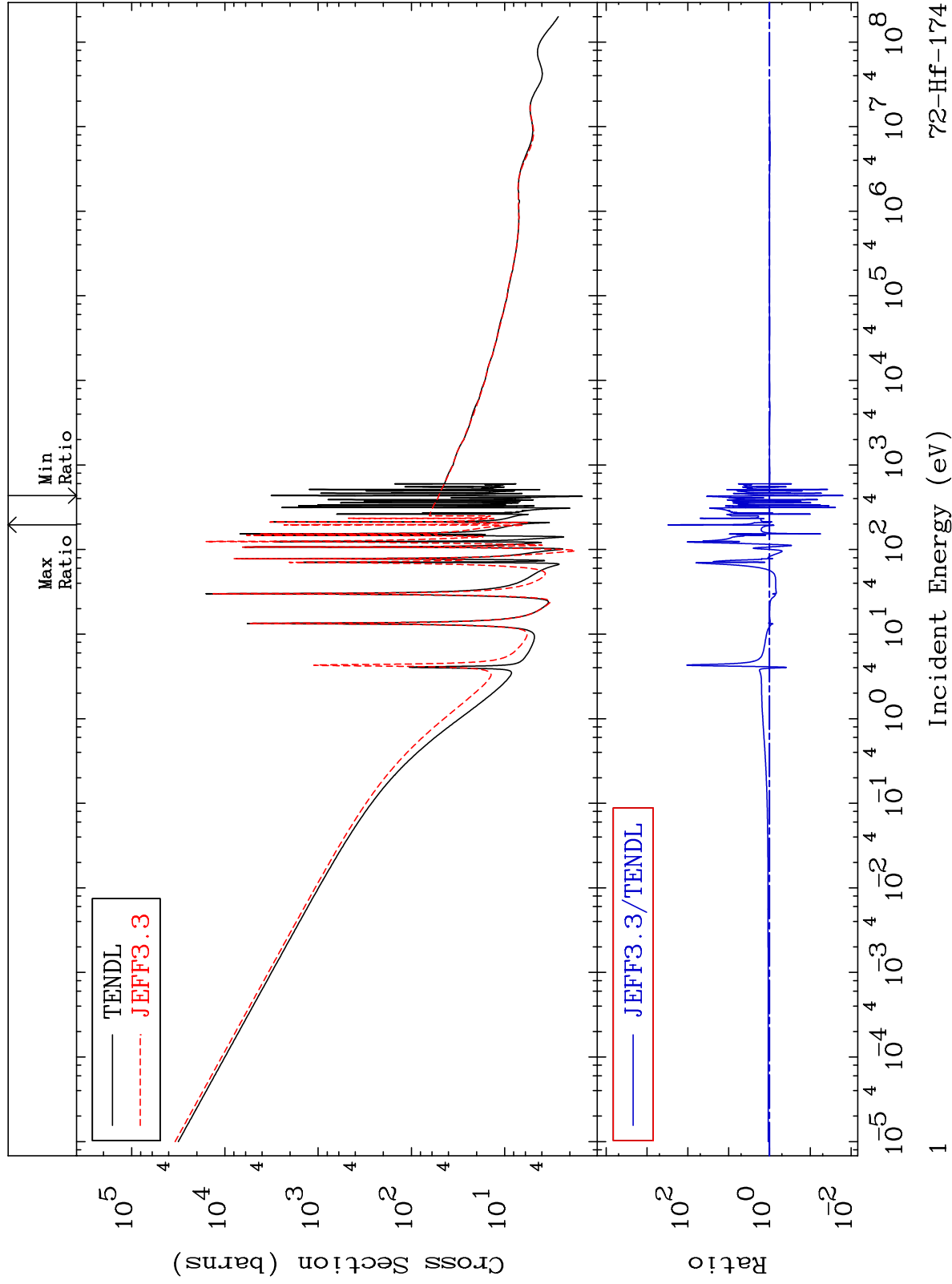
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7225

Total
Cross Section

72-Hf-174
-98.40 To 9999. %

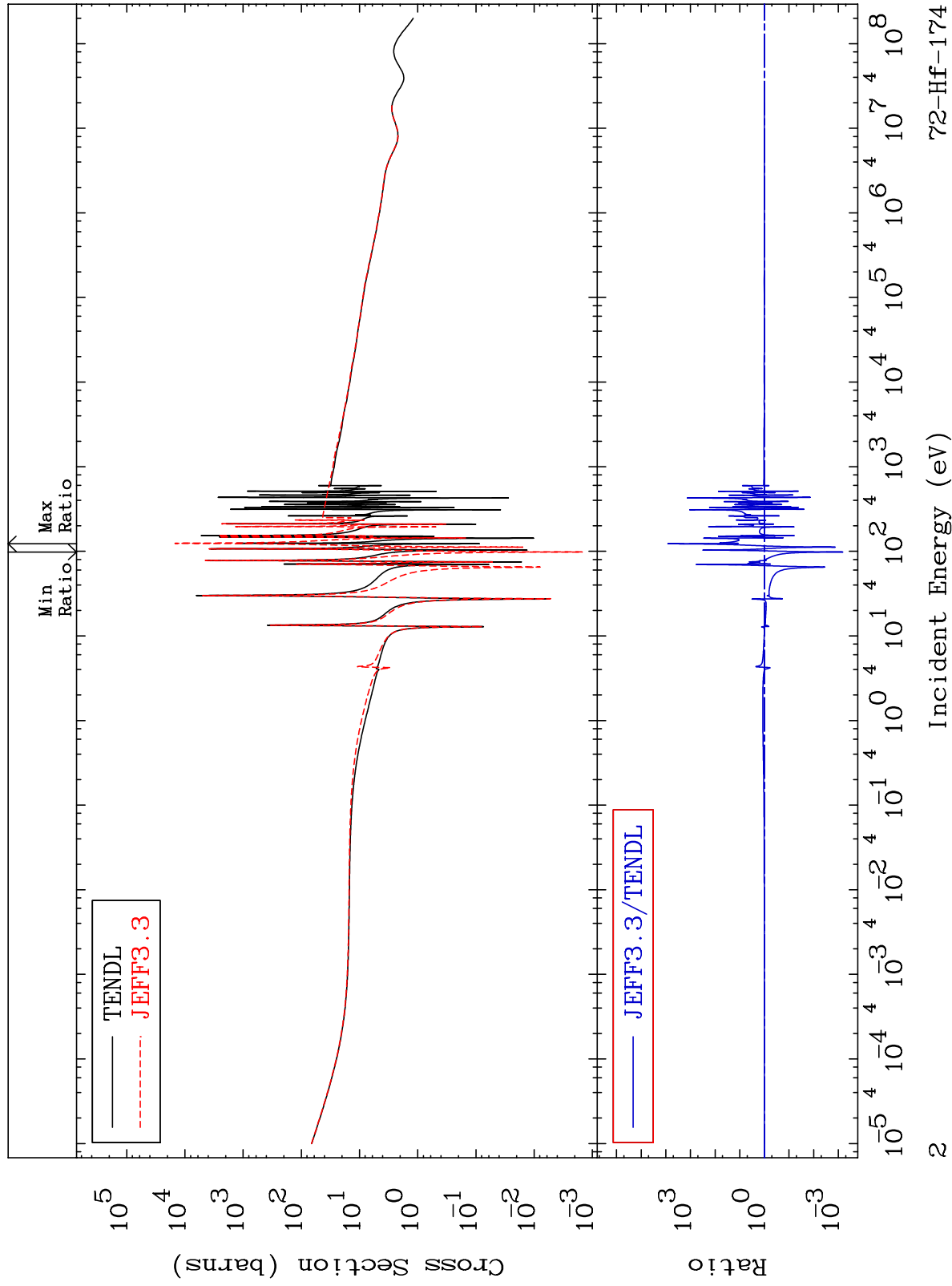


72-Hf-174

MAT 7225

Elastic
Cross Section

72-Hf-174
-99.93 To 9999. %

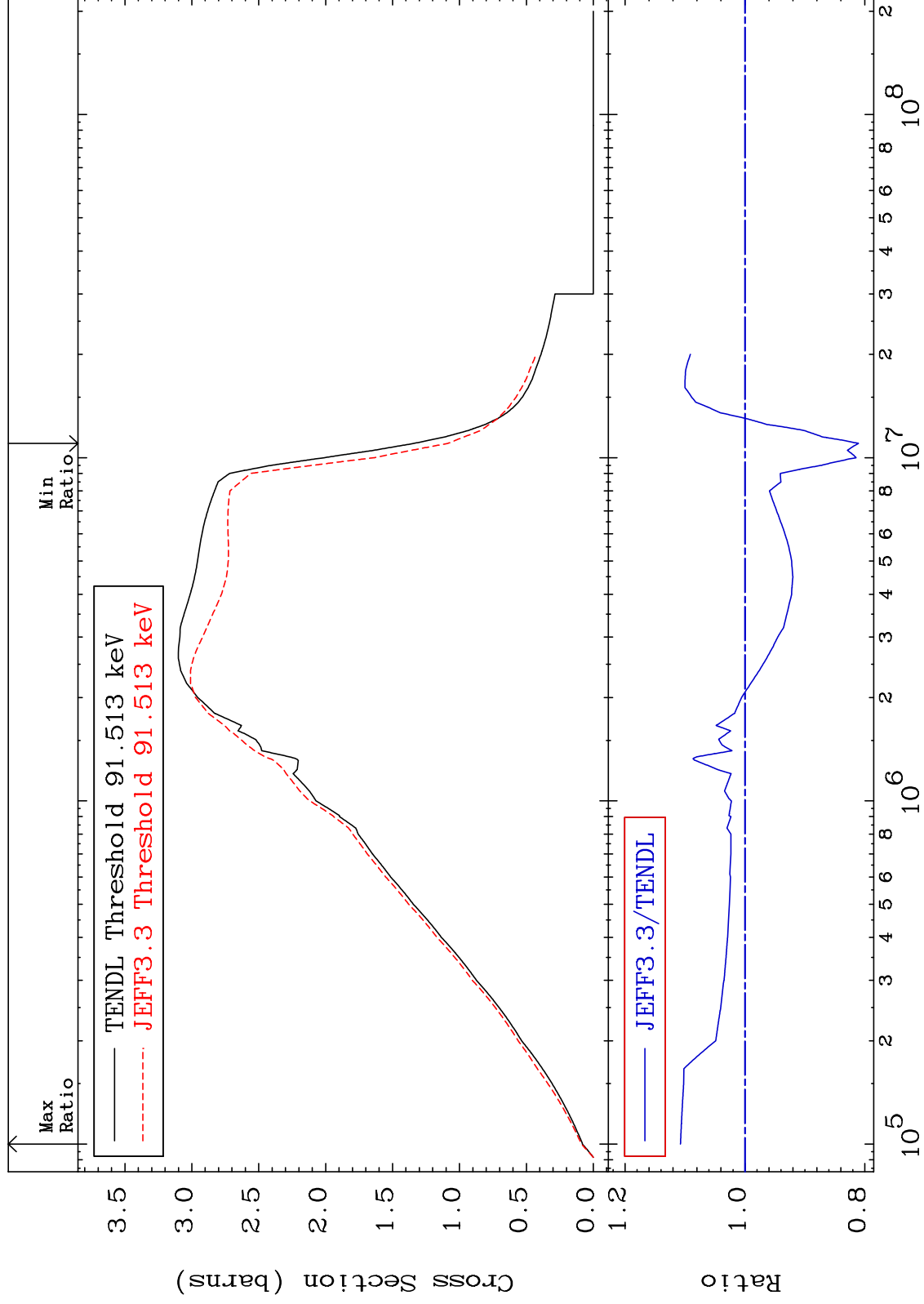


72-Hf-174

MAT 7225

Inelastic
Cross Section

72-Hf-174
-18.94 To 10.76 %



72-Hf-174

Incident Energy (eV)

3

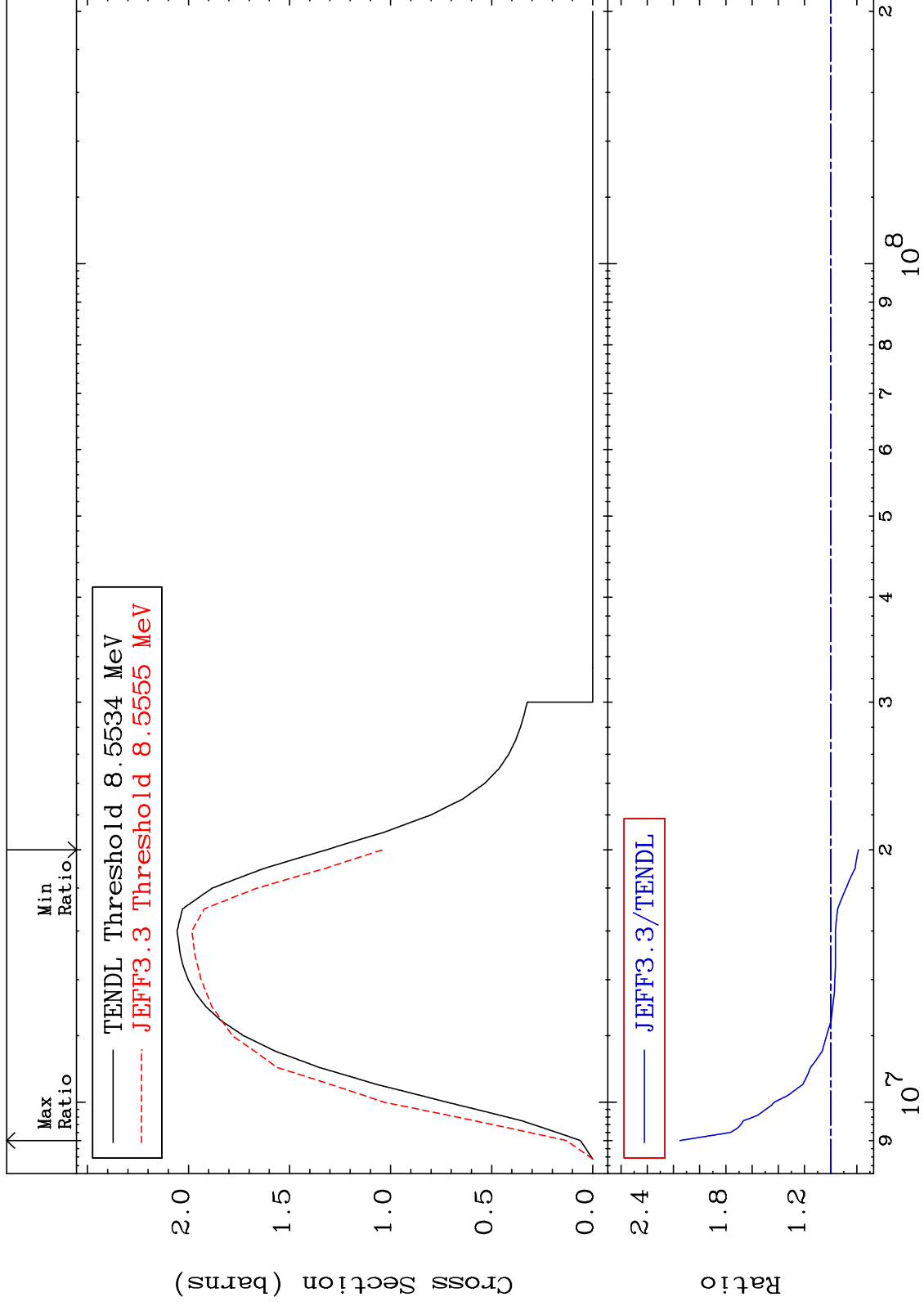
MAT 7225

(n, 2n)

⁷²Hf-174

Cross Section

-21.14 To 115.0 %



4

Incident Energy (eV)

⁷²Hf-174

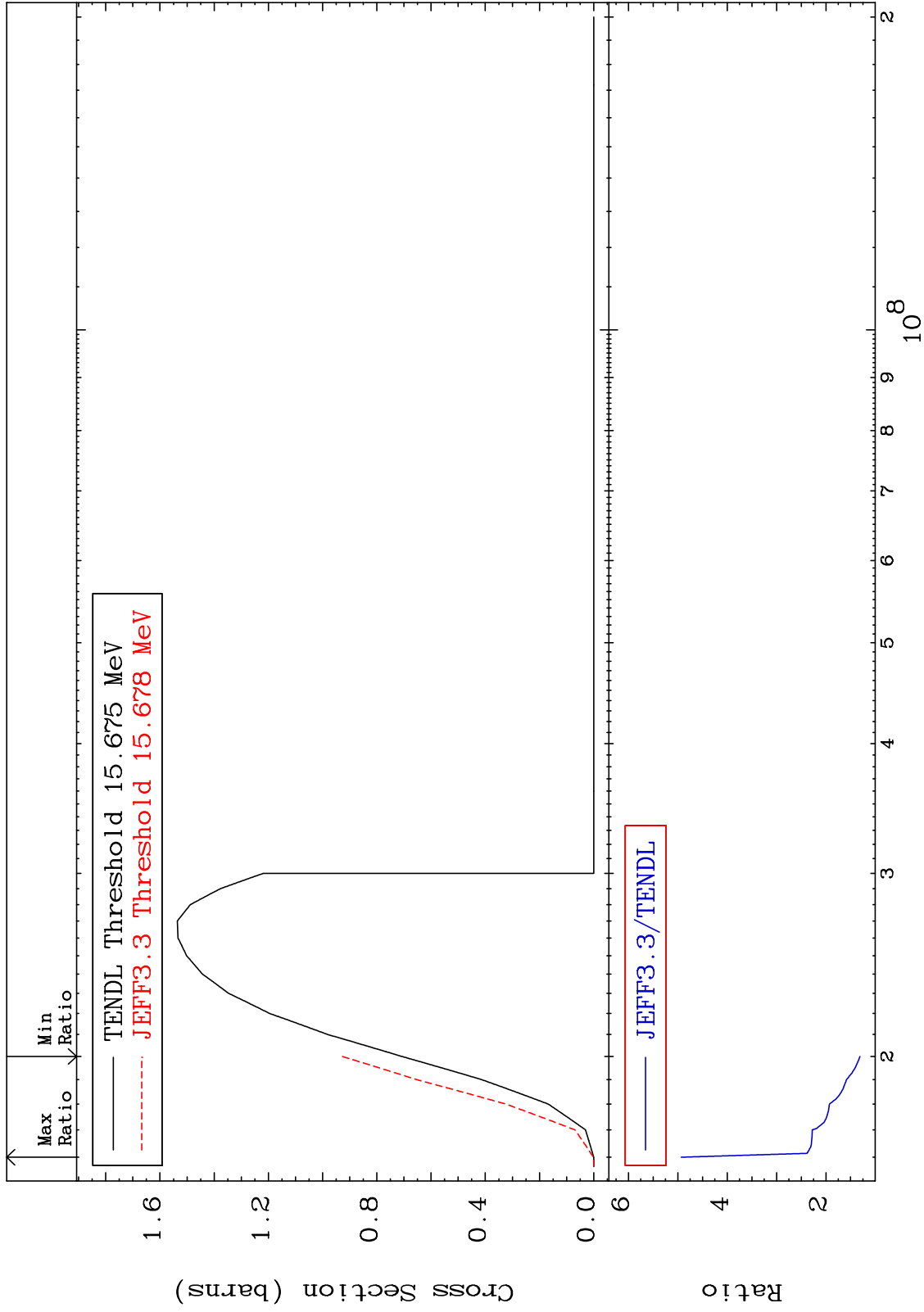
MAT 7225

(n, 3n)

⁷²Hf-174

Cross Section

31.09 To 393.1 %



5

Incident Energy (eV)

⁷²Hf-174

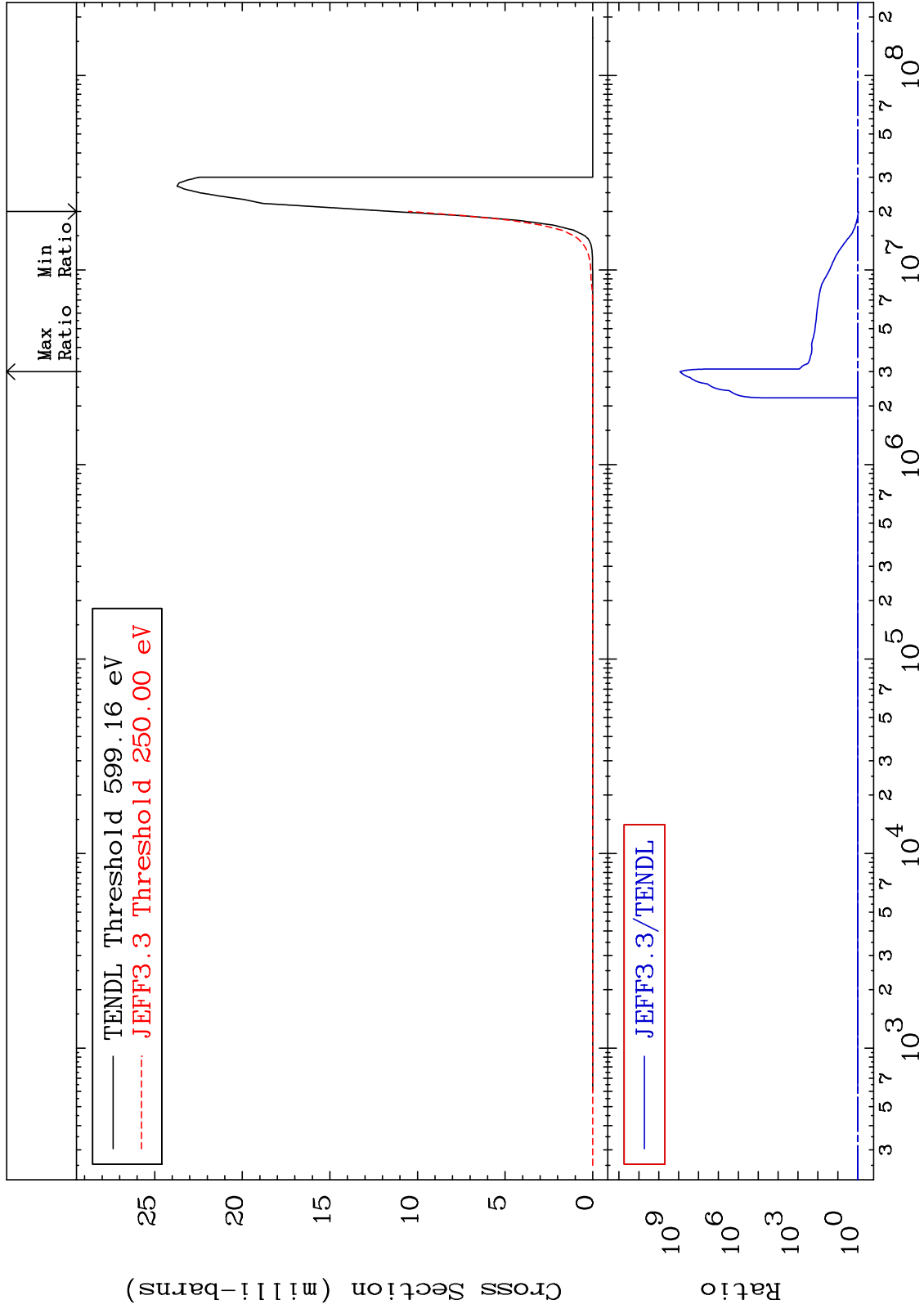
MAT 7225

(n, n') α

72-Hf-174

Cross Section

-8.266 To 9999. %



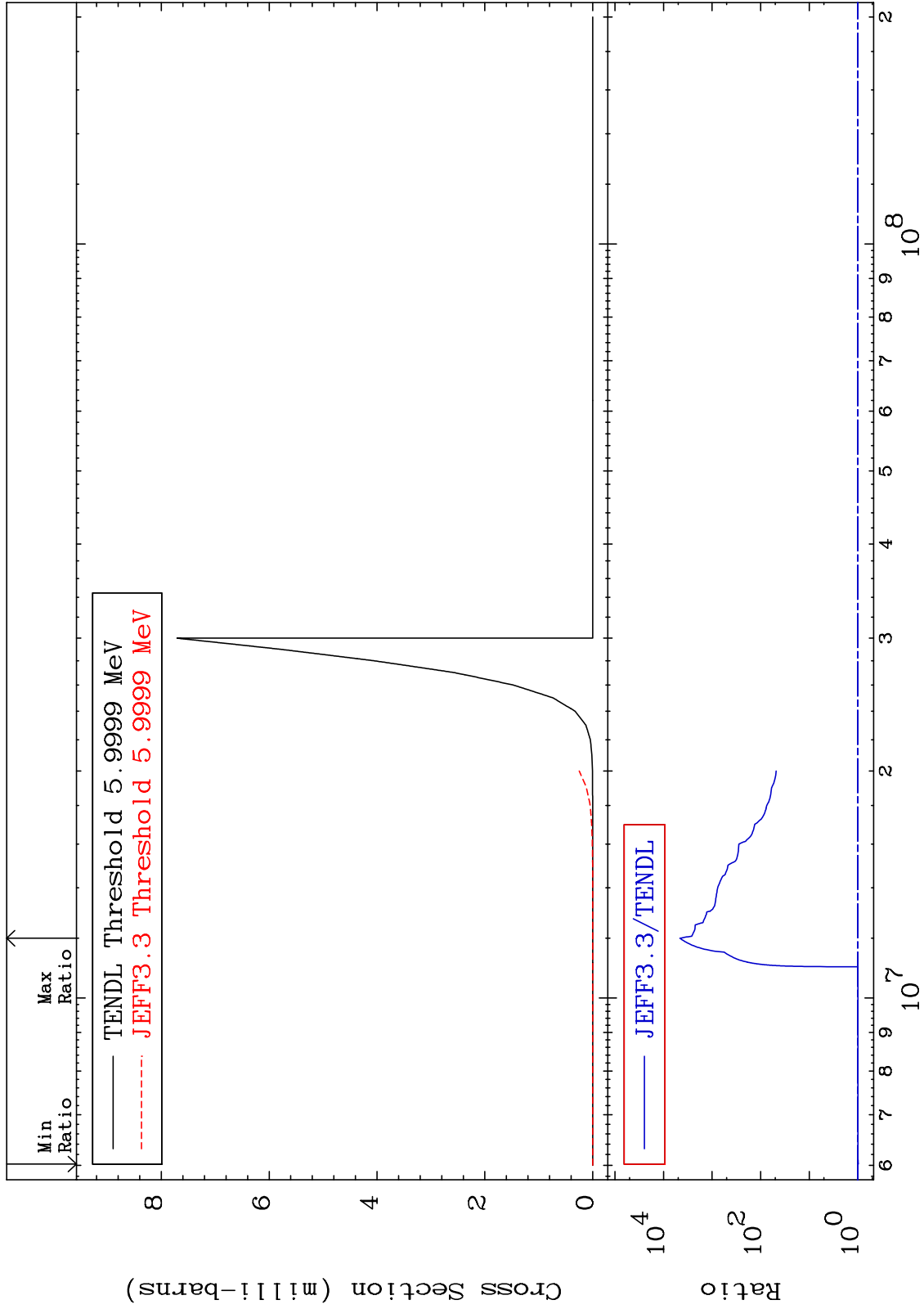
MAT 7225

(n,2n) α

72-Hf-174

Cross Section

-3.134 To 9999. %



7

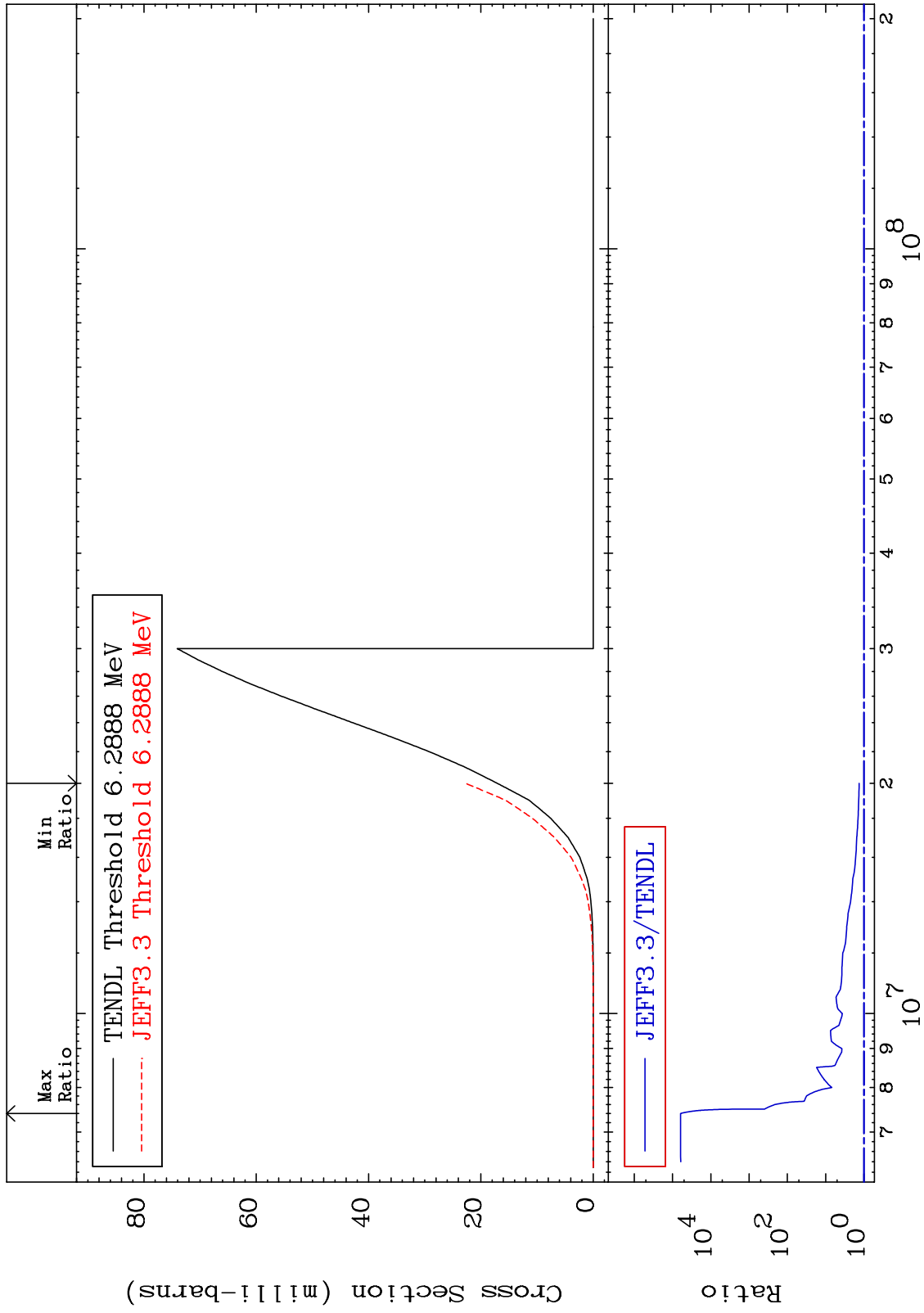
Incident Energy (eV)

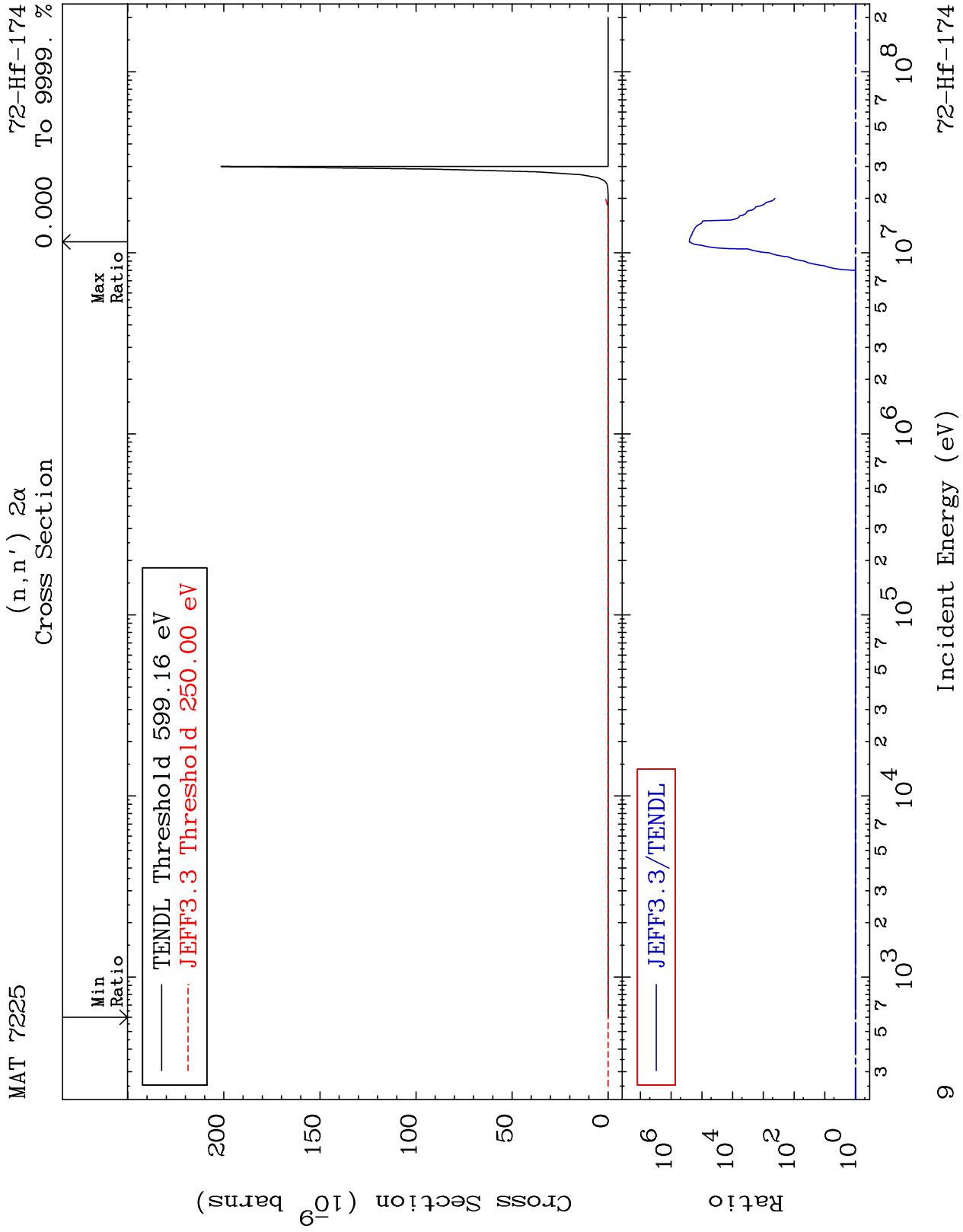
72-Hf-174

MAT 7225

(n,n') p
Cross Section

72-Hf-174
33.13 To 9999. %





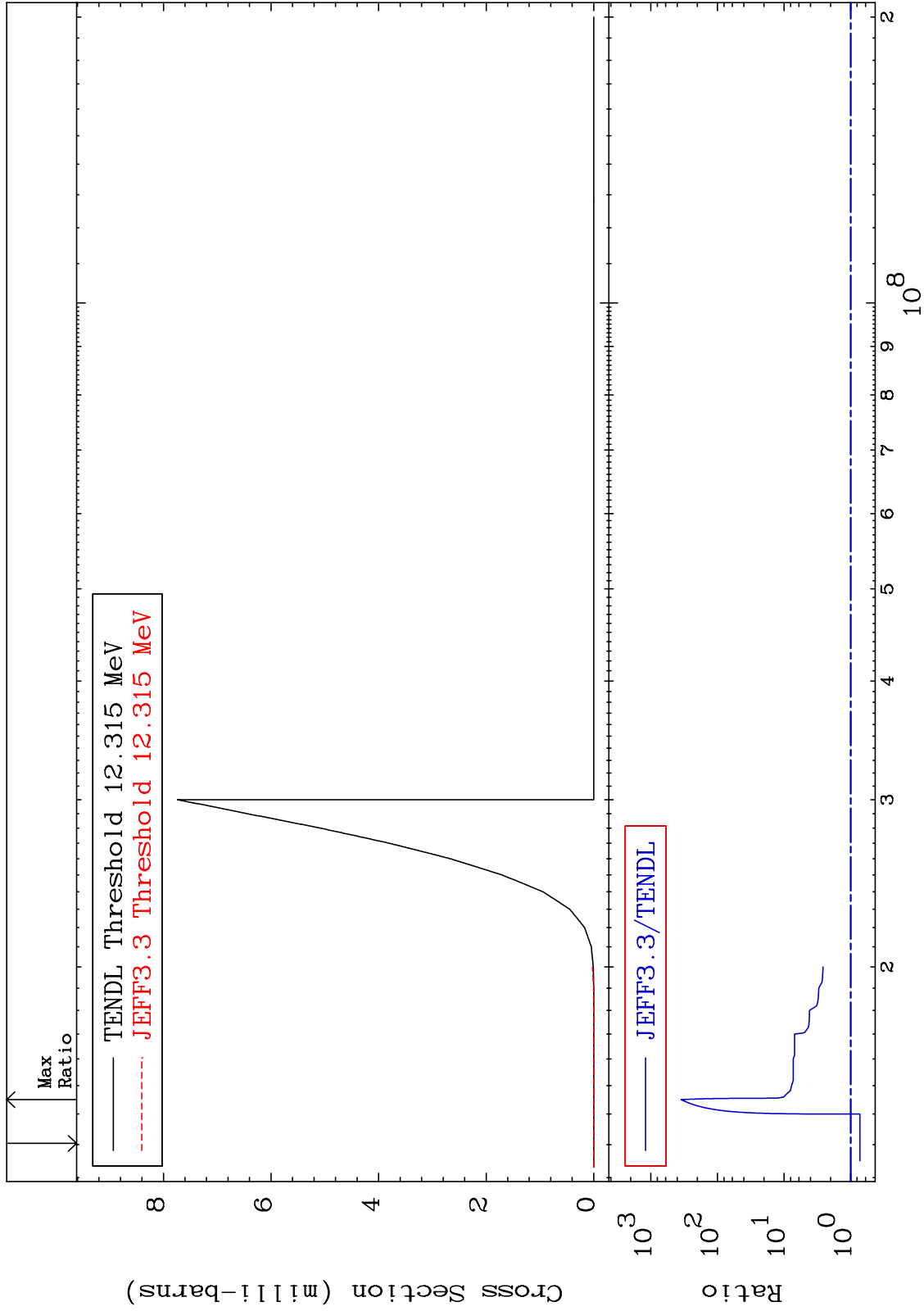
MAT 7225

(n, n') d

72-Hf-174

Cross Section

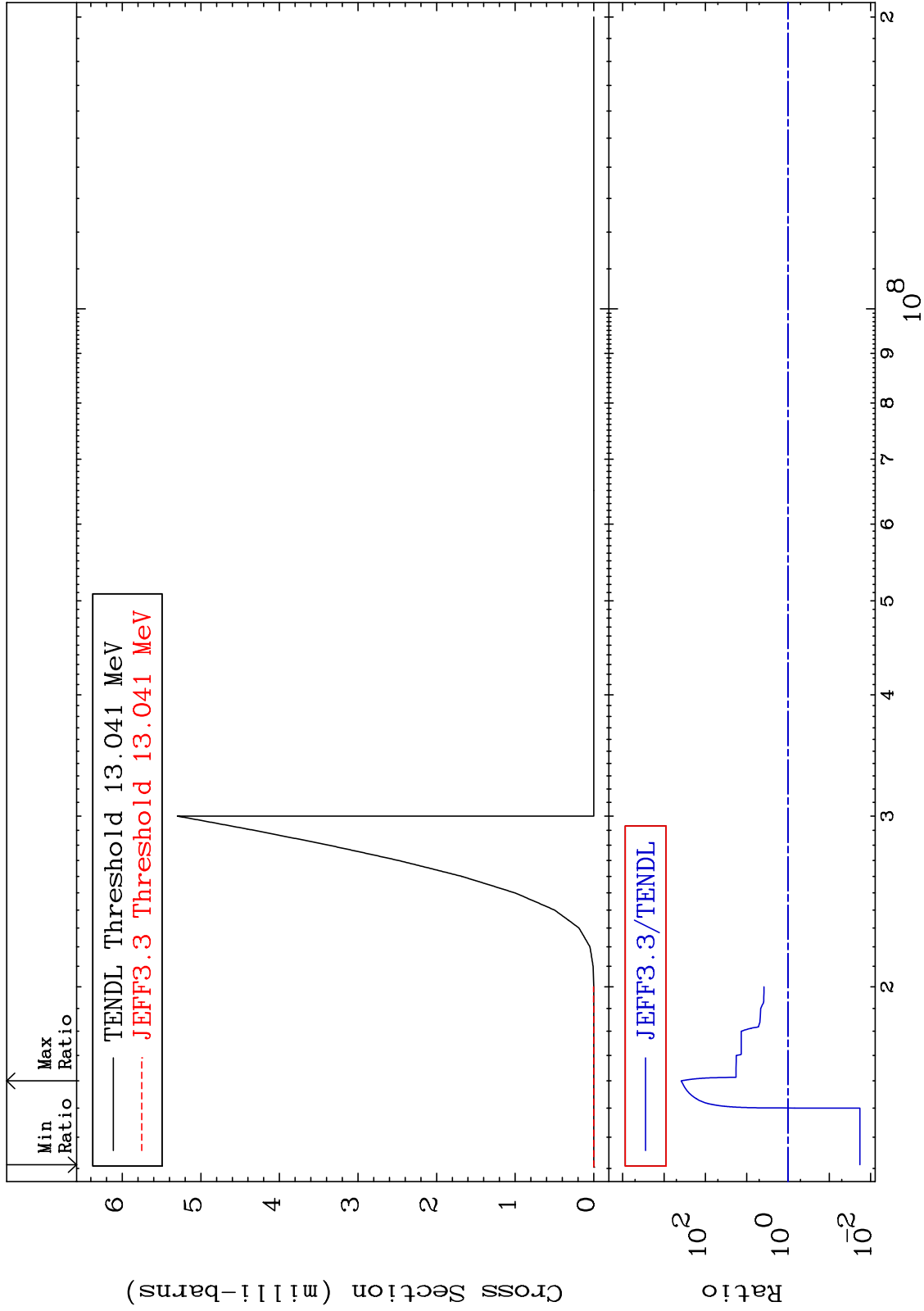
-27.36 To 9999. %



10

Incident Energy (eV)

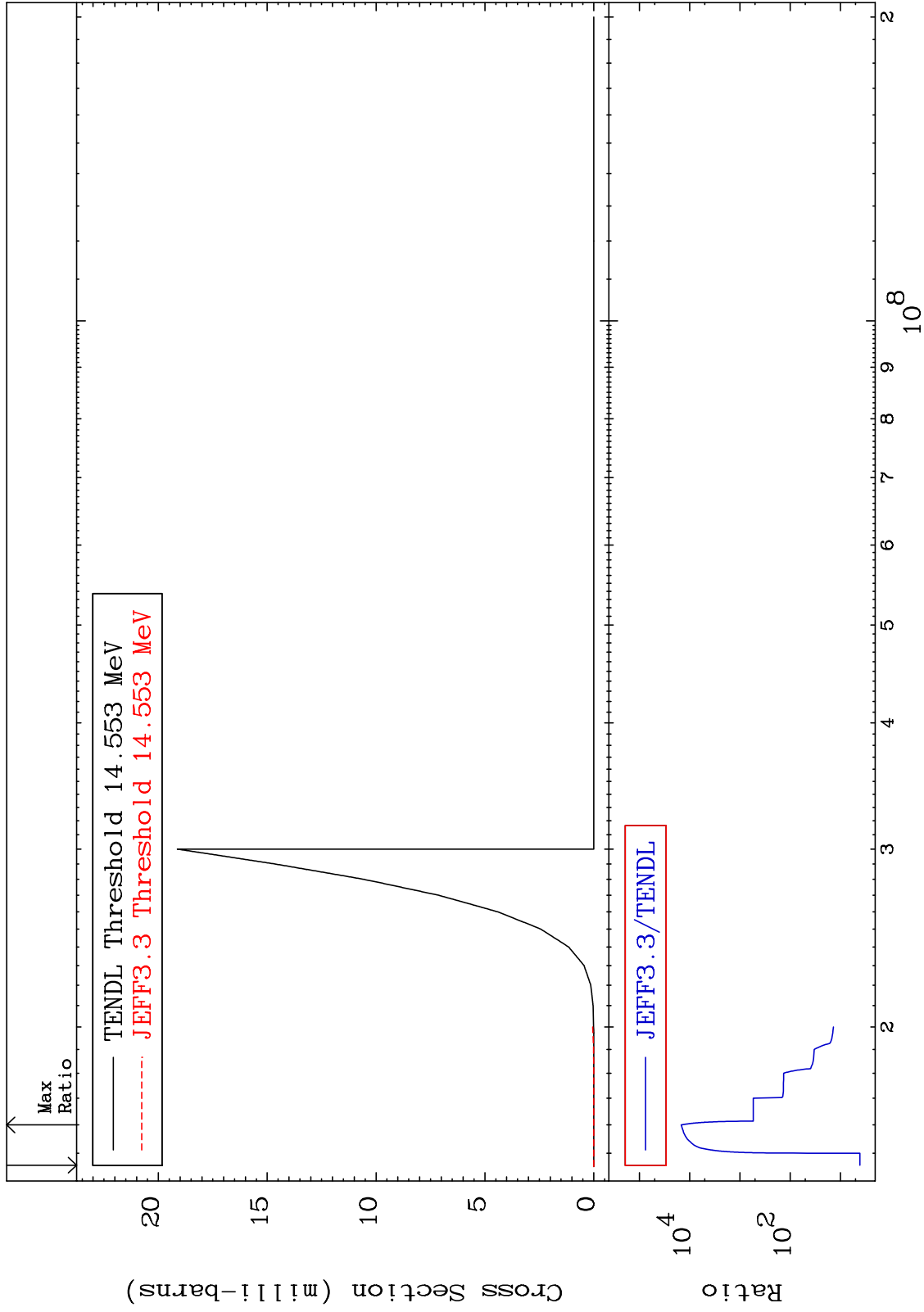
72-Hf-174



MAT 7225

(n,2n) p
Cross Section

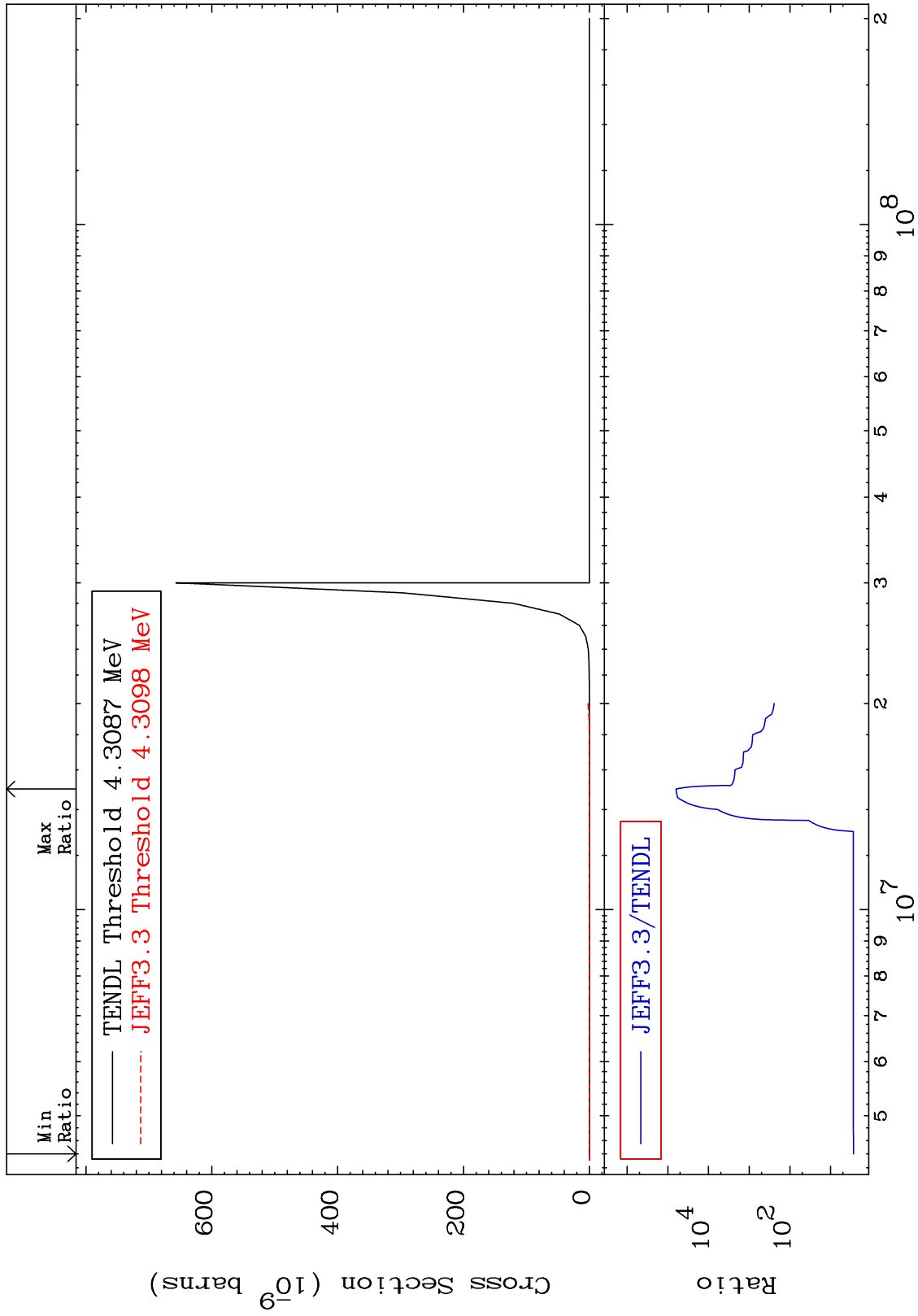
72-Hf-174
307.4 To 9999. %



MAT 7225

(n,n') p α
Cross Section

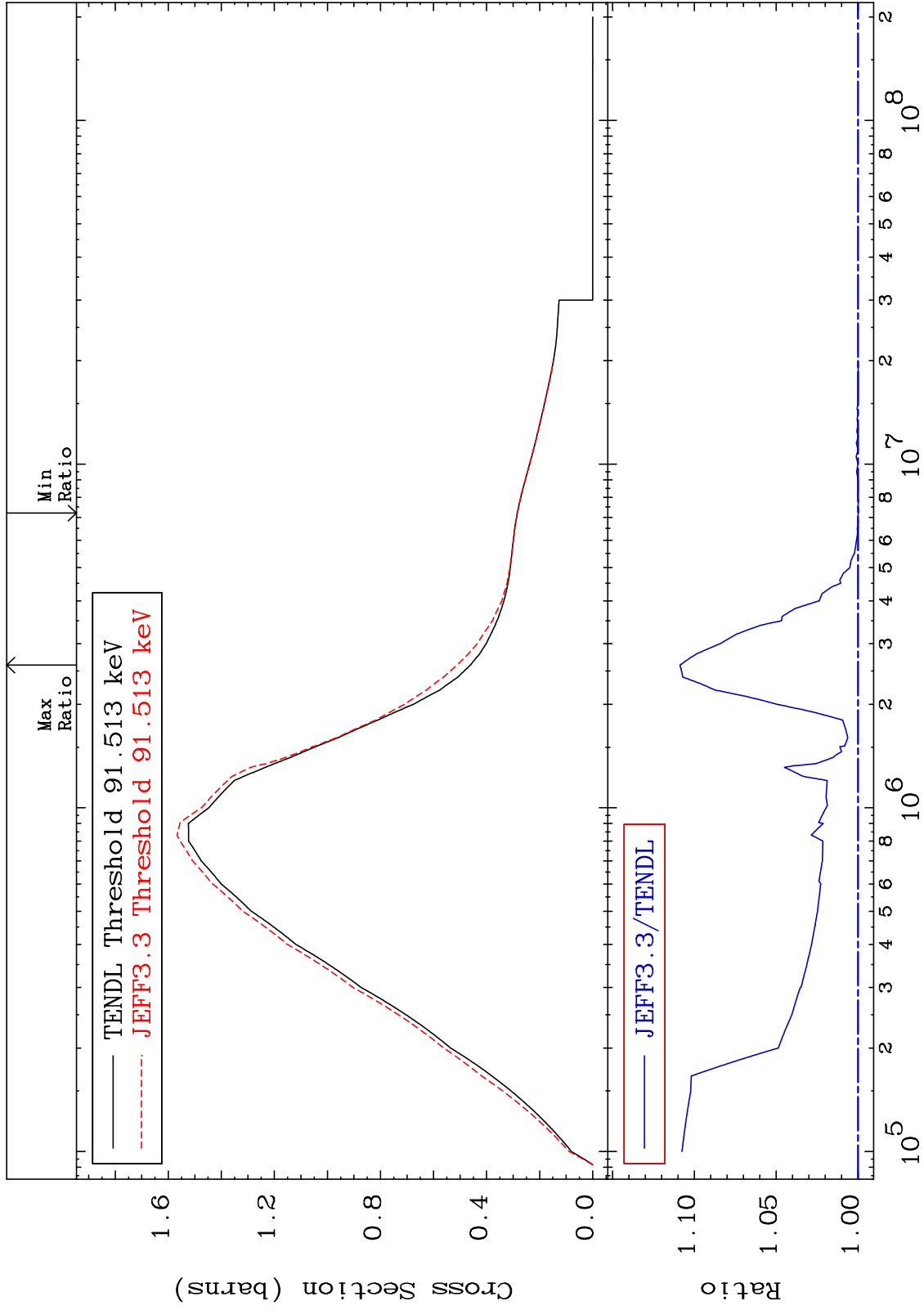
72-Hf-174
173.3 To 9999. %



MAT 7225

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

⁷²Hf-174
-0.023 To 10.88 %

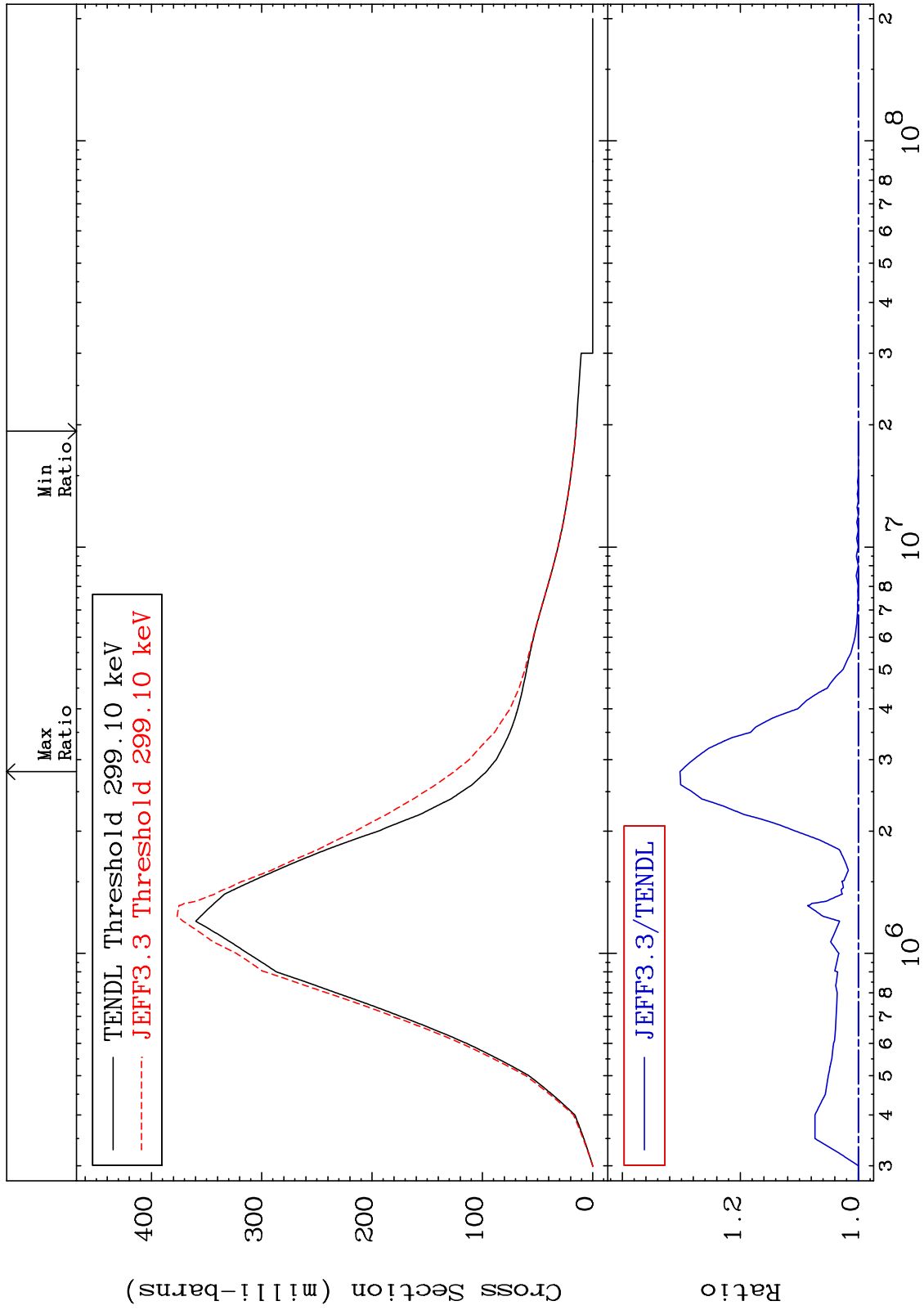


14

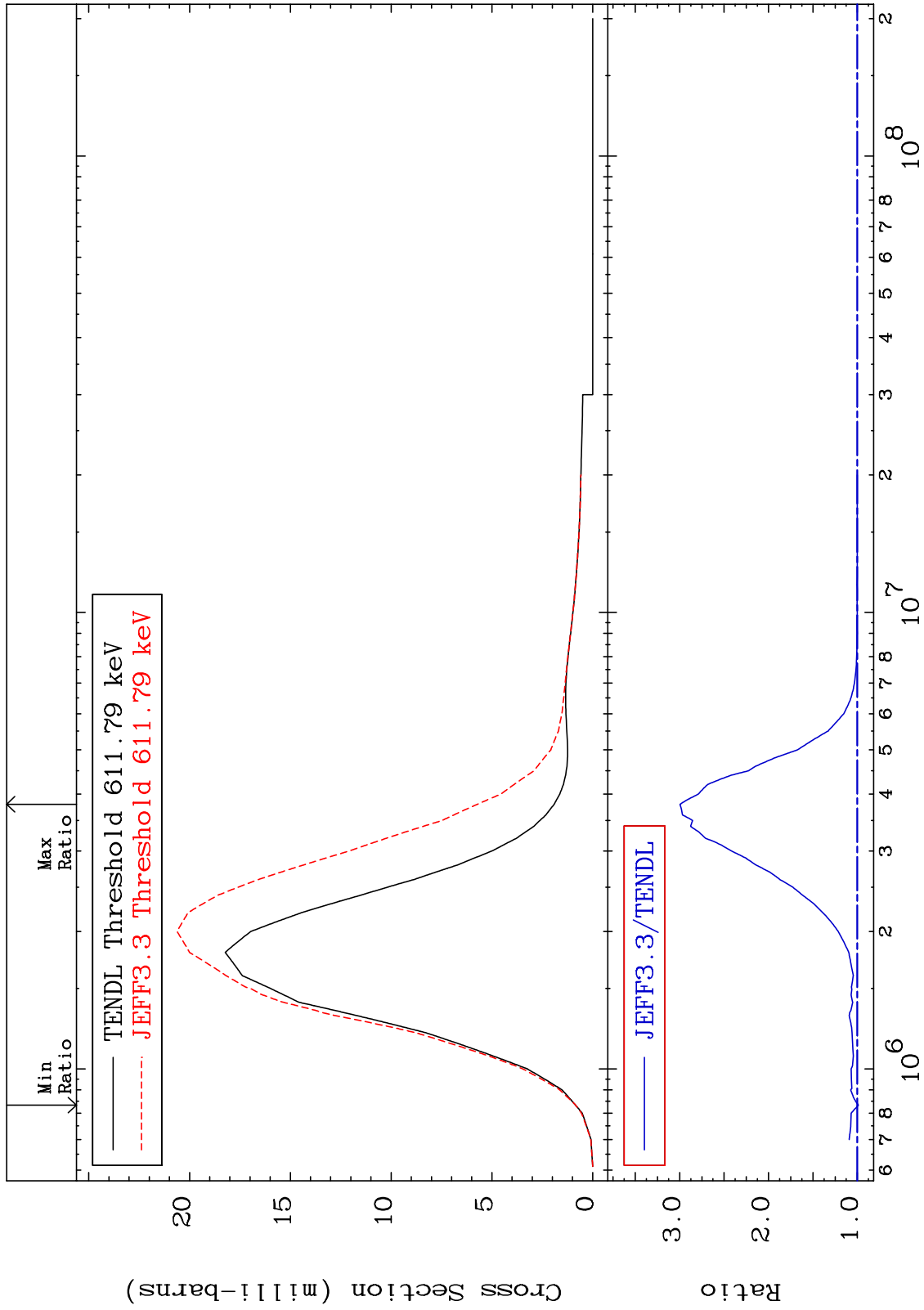
Incident Energy (eV)

⁷²Hf-174

MAT 7225 MT= 52 (n,n') Level Cross Section 72-Hf-174 0.000 To 30.23 %



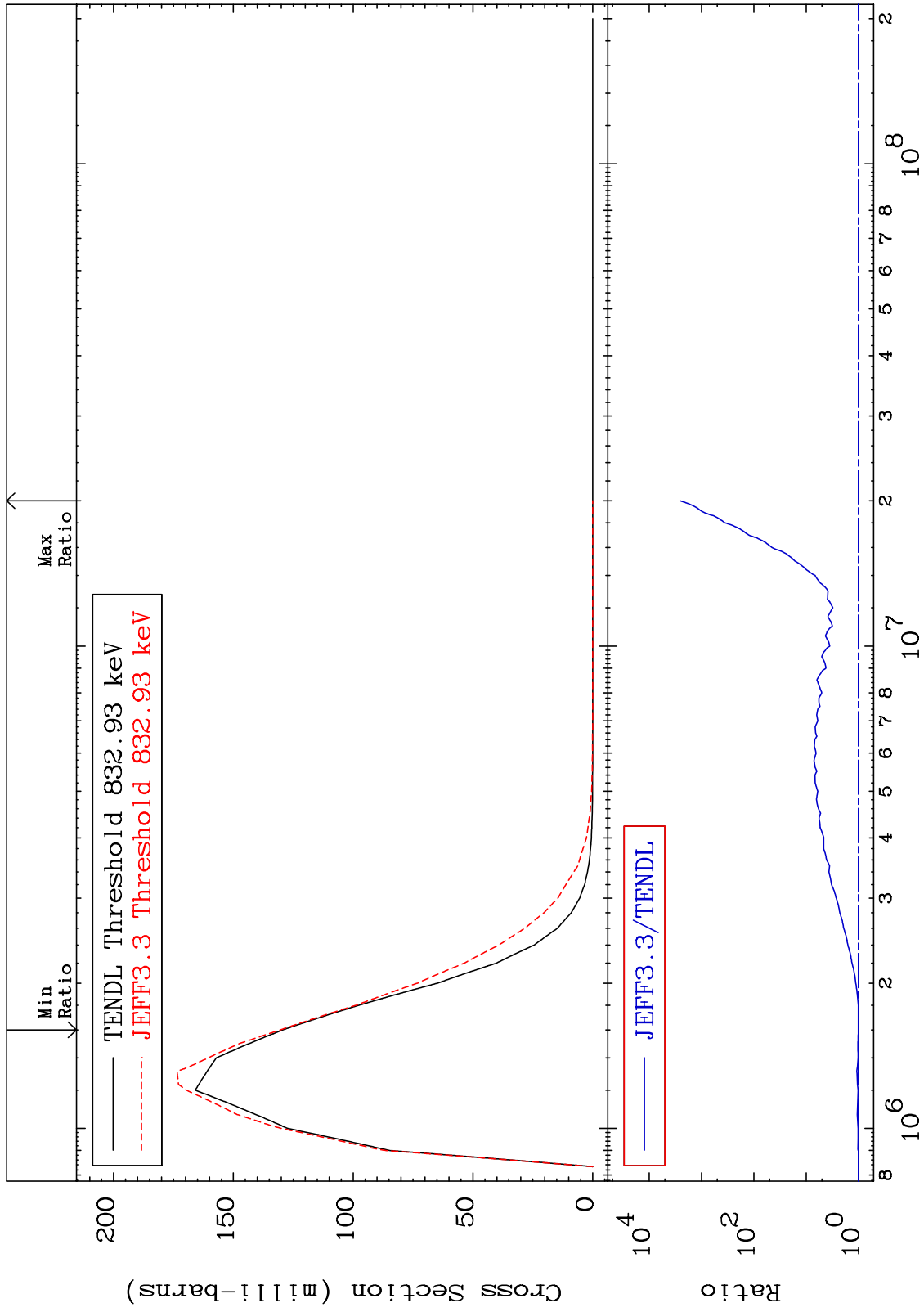
MAT 7225 MT= 53 (n,n') Level
Cross Section 72-Hf-174
-1.194 To 199.6 %



MAT 7225

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

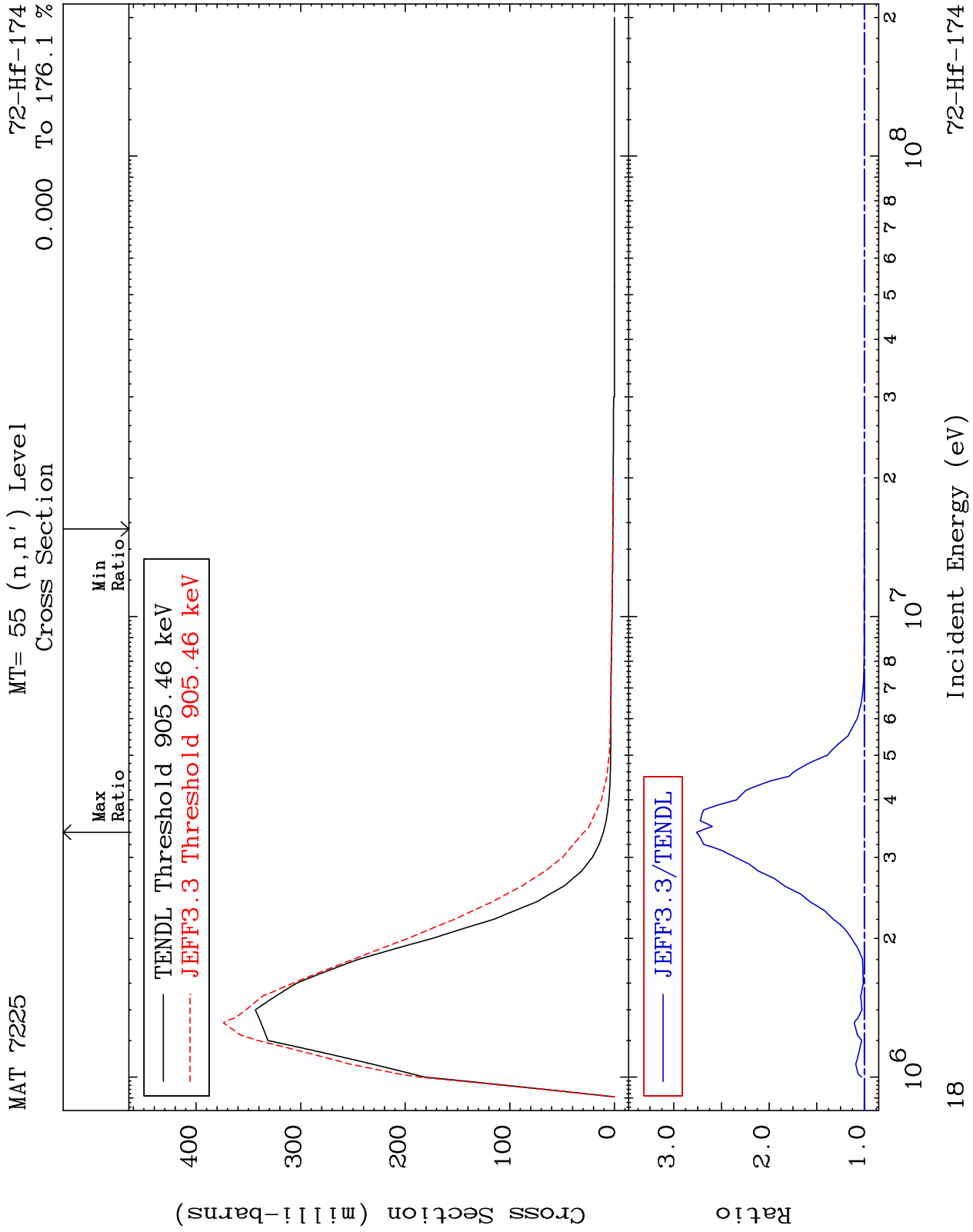
72-Hf-174
0.807 To 9999. %



17

Incident Energy (eV)

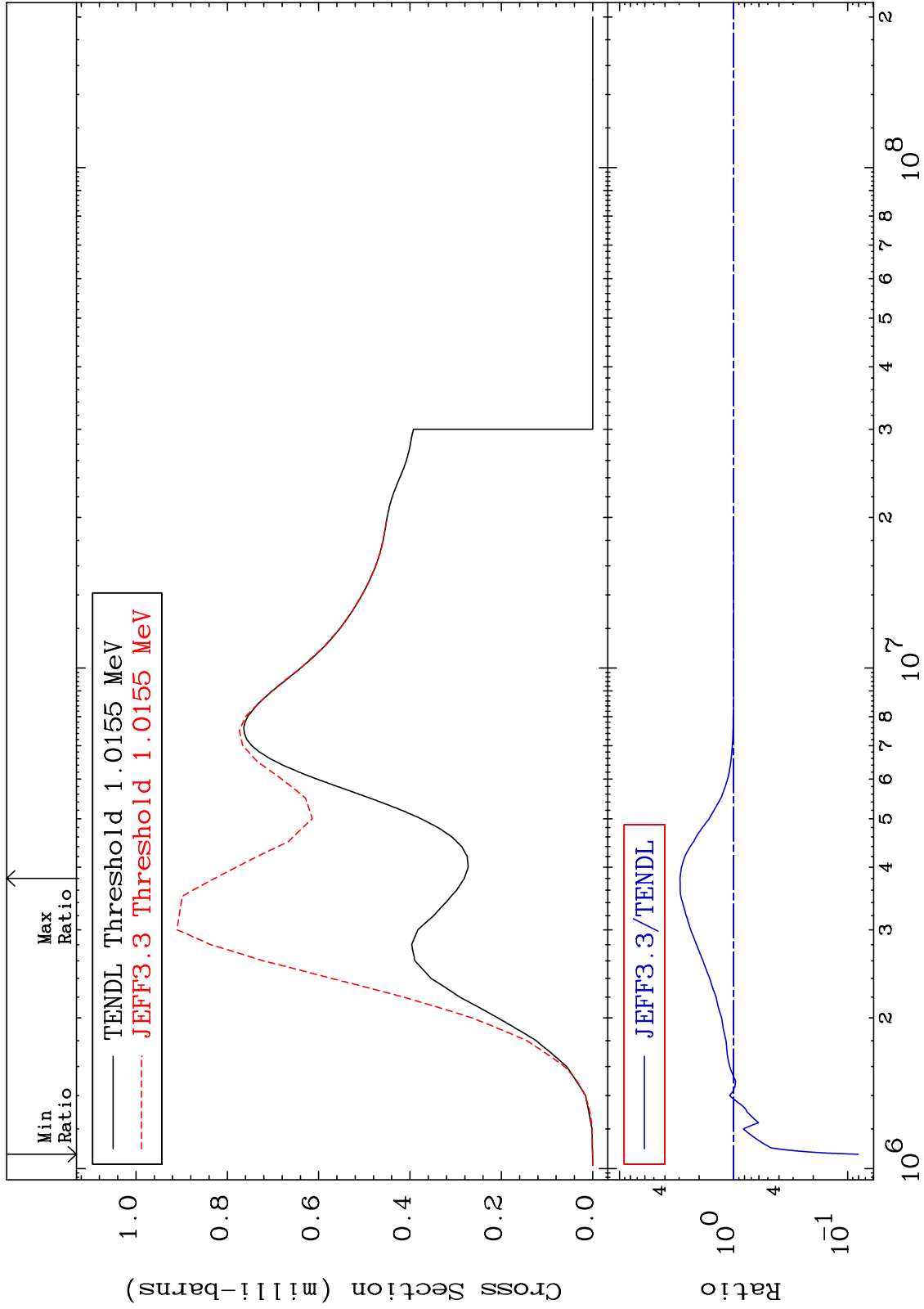
72-Hf-174



MAT 7225

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

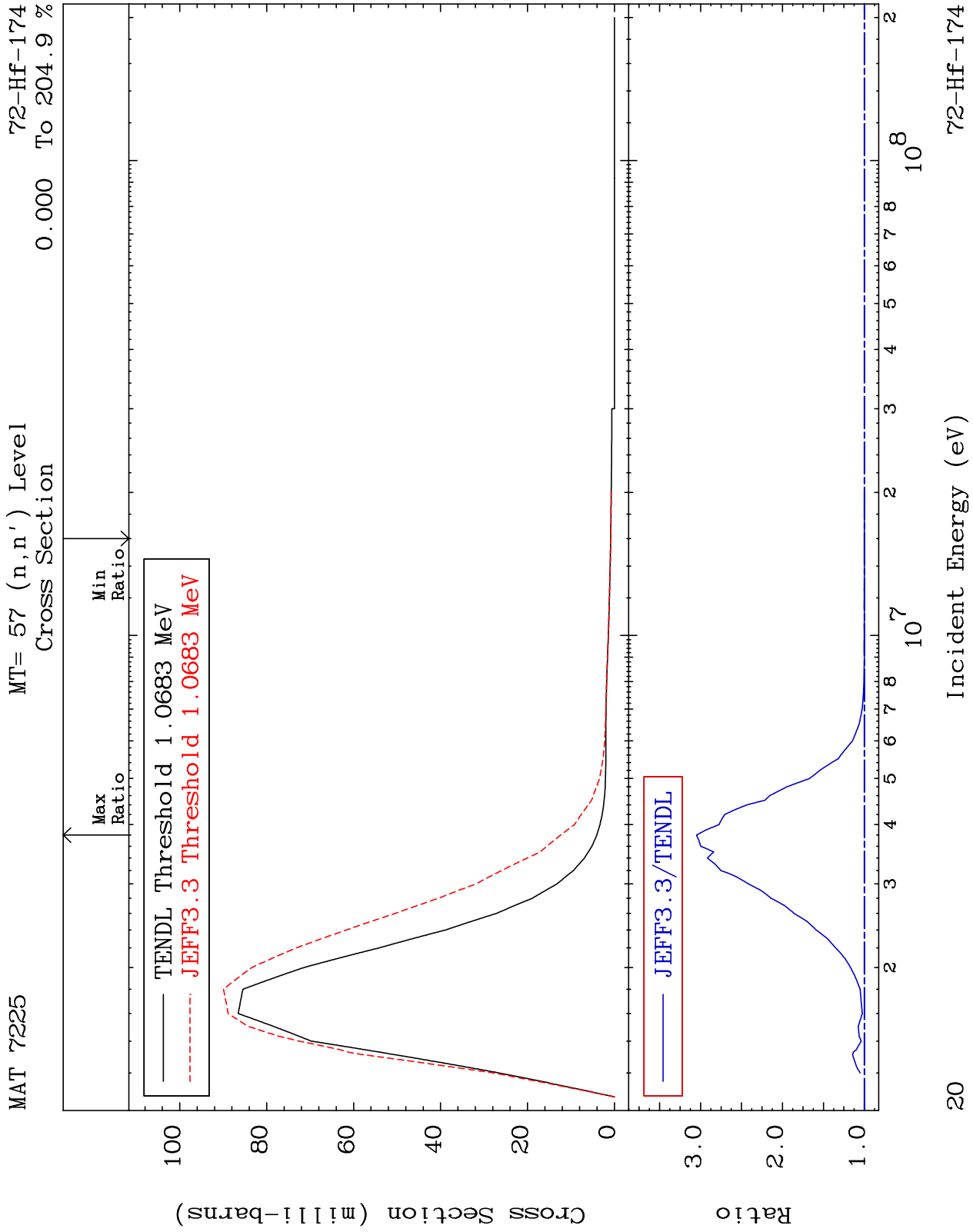
72-Hf-174
-91.96 To 194.5 %

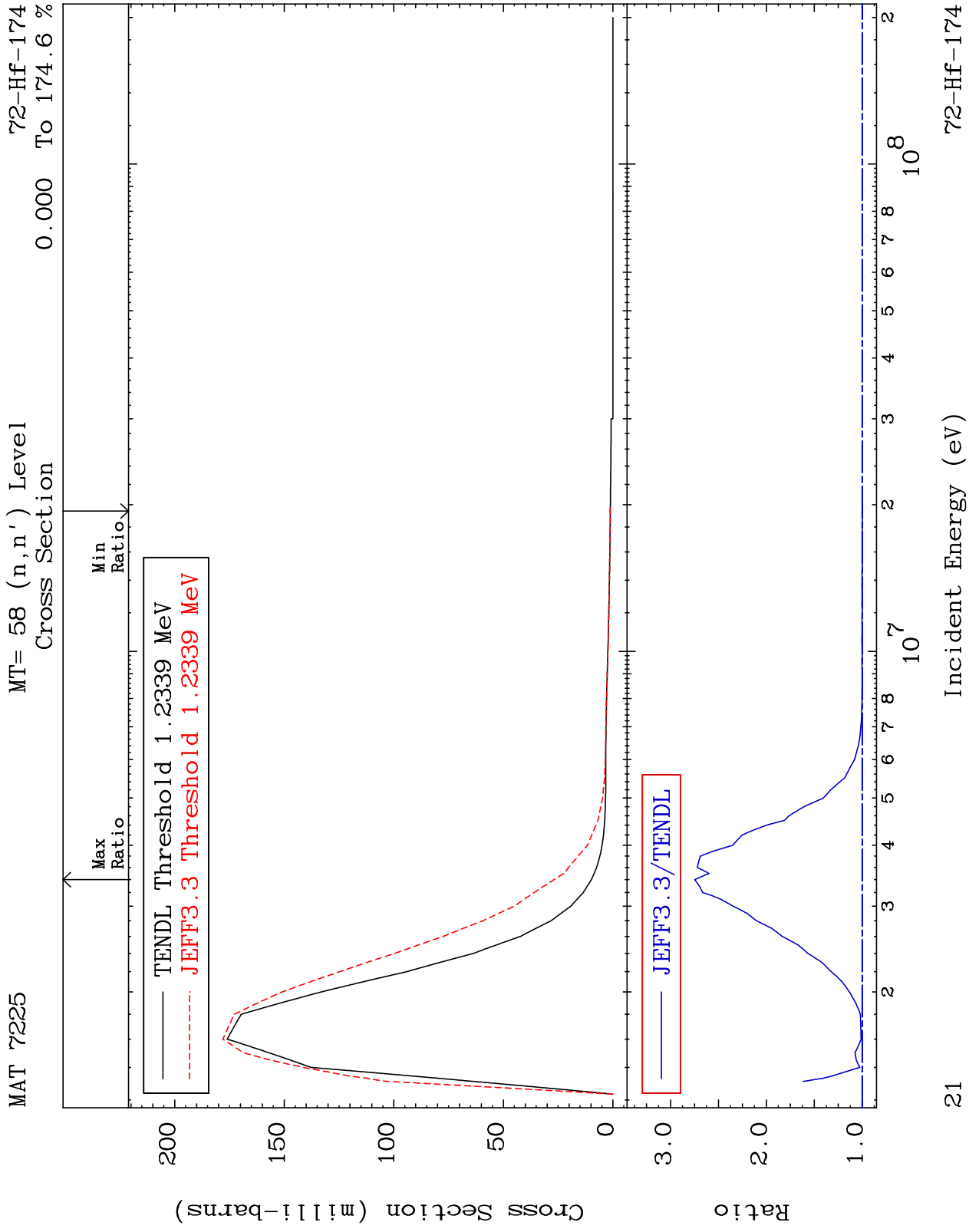


19

Incident Energy (eV)

72-Hf-174

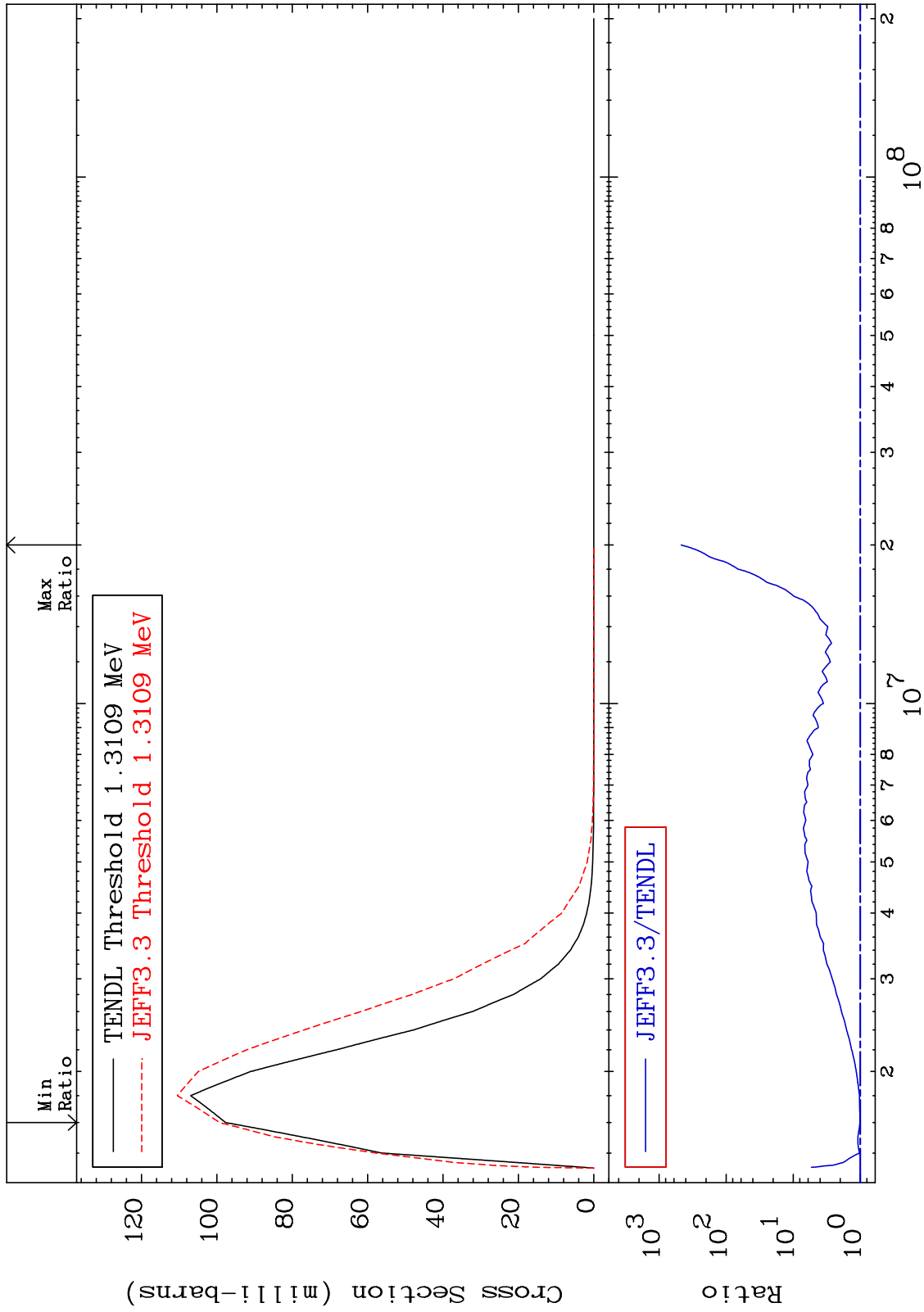




MAT 7225

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

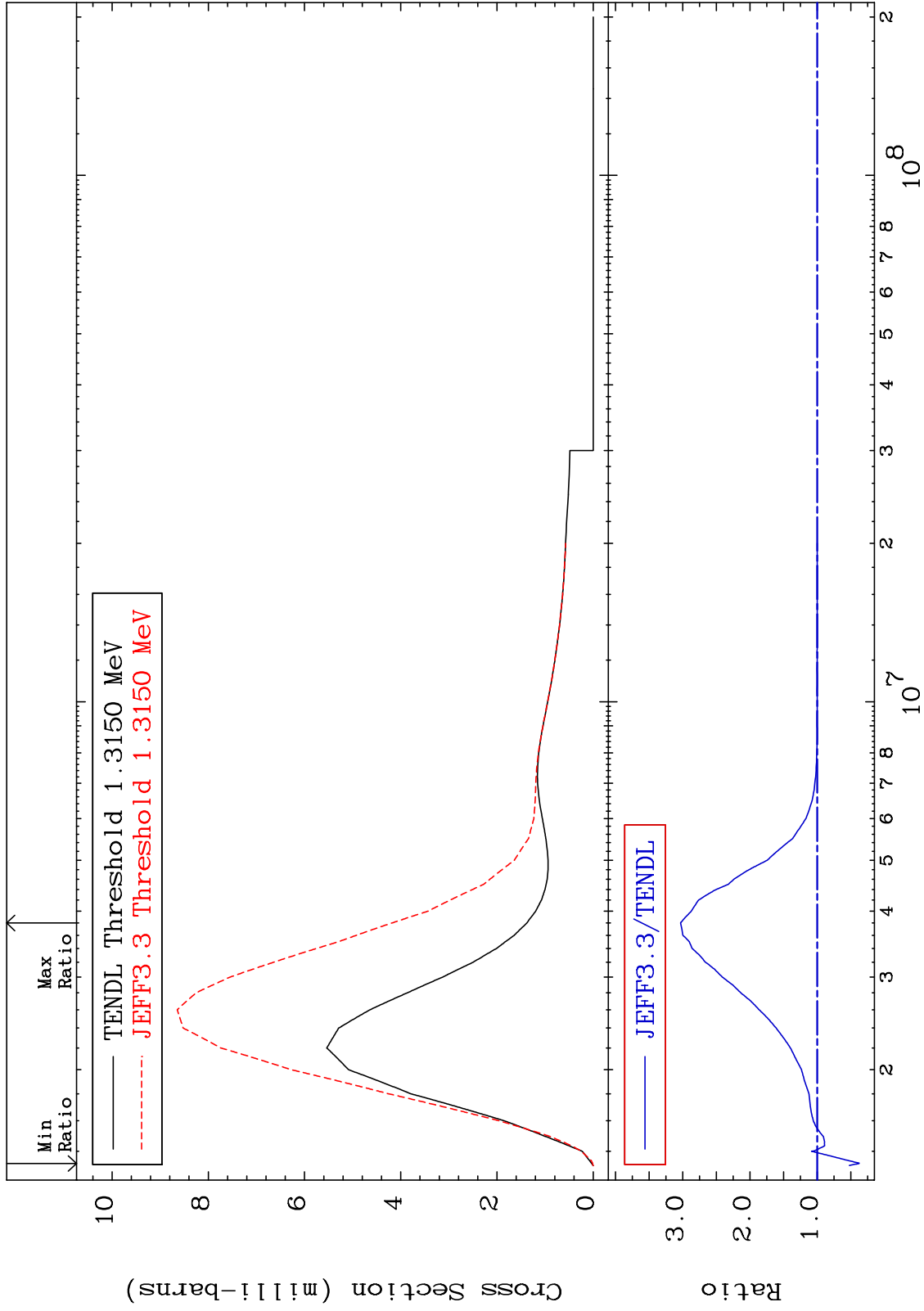
72-Hf-174
1.641 To 9999. %



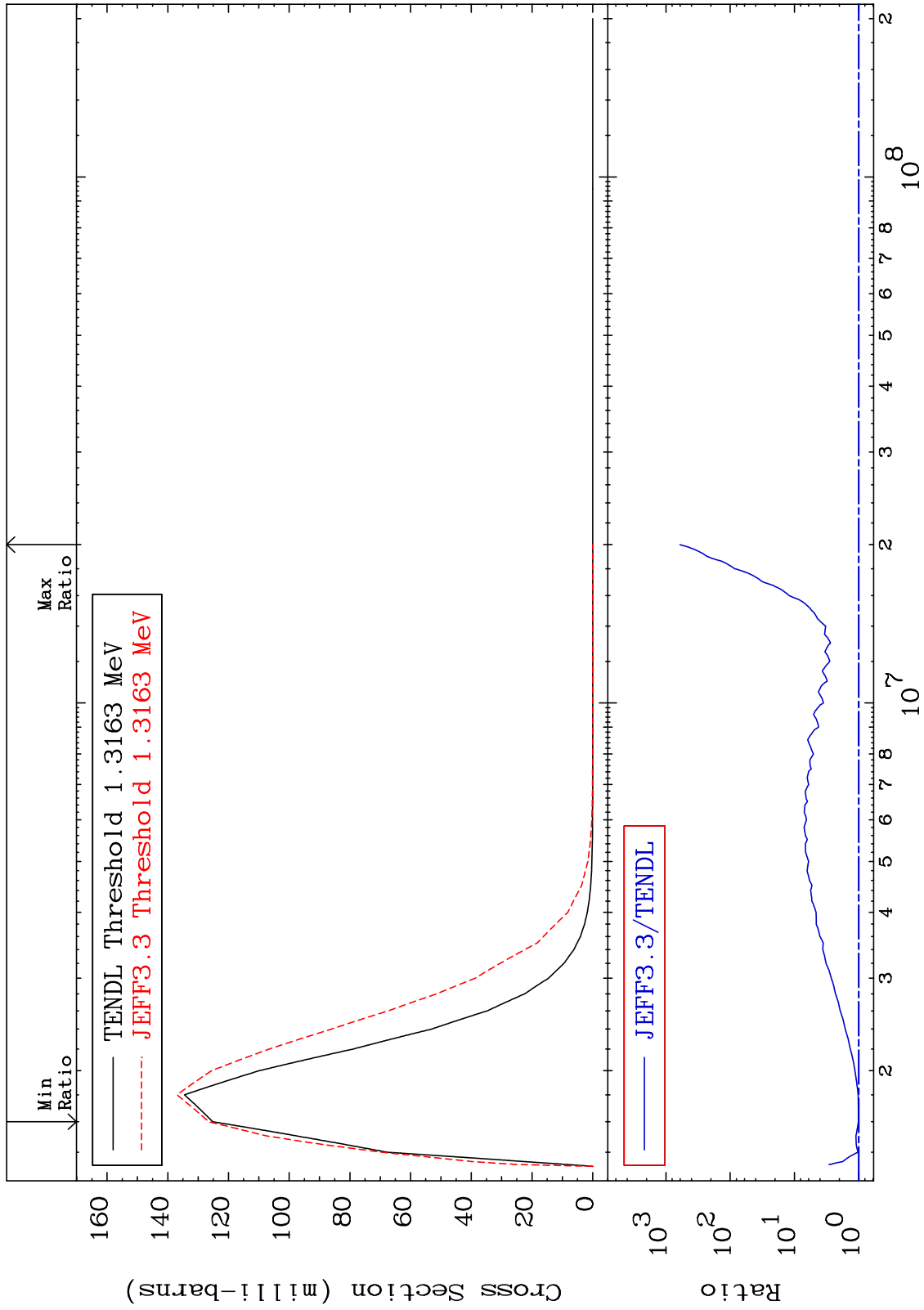
MAT 7225

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

72-Hf-174
-62.42 To 203.2 %



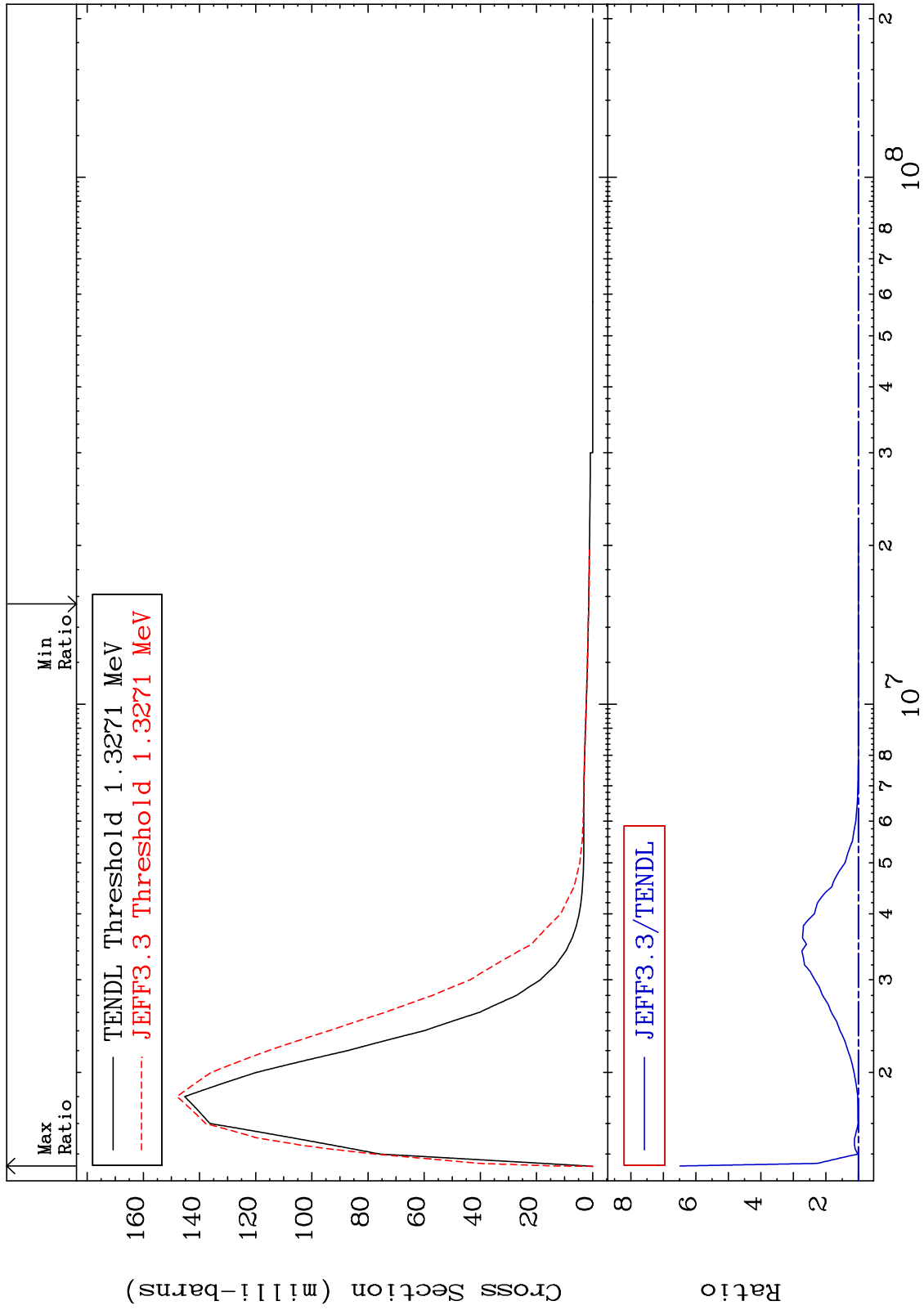
MAT 7225 MT= 61 (n, n') Level Cross Section 1.037 To 9999. % 72-Hf-174



MAT 7225

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

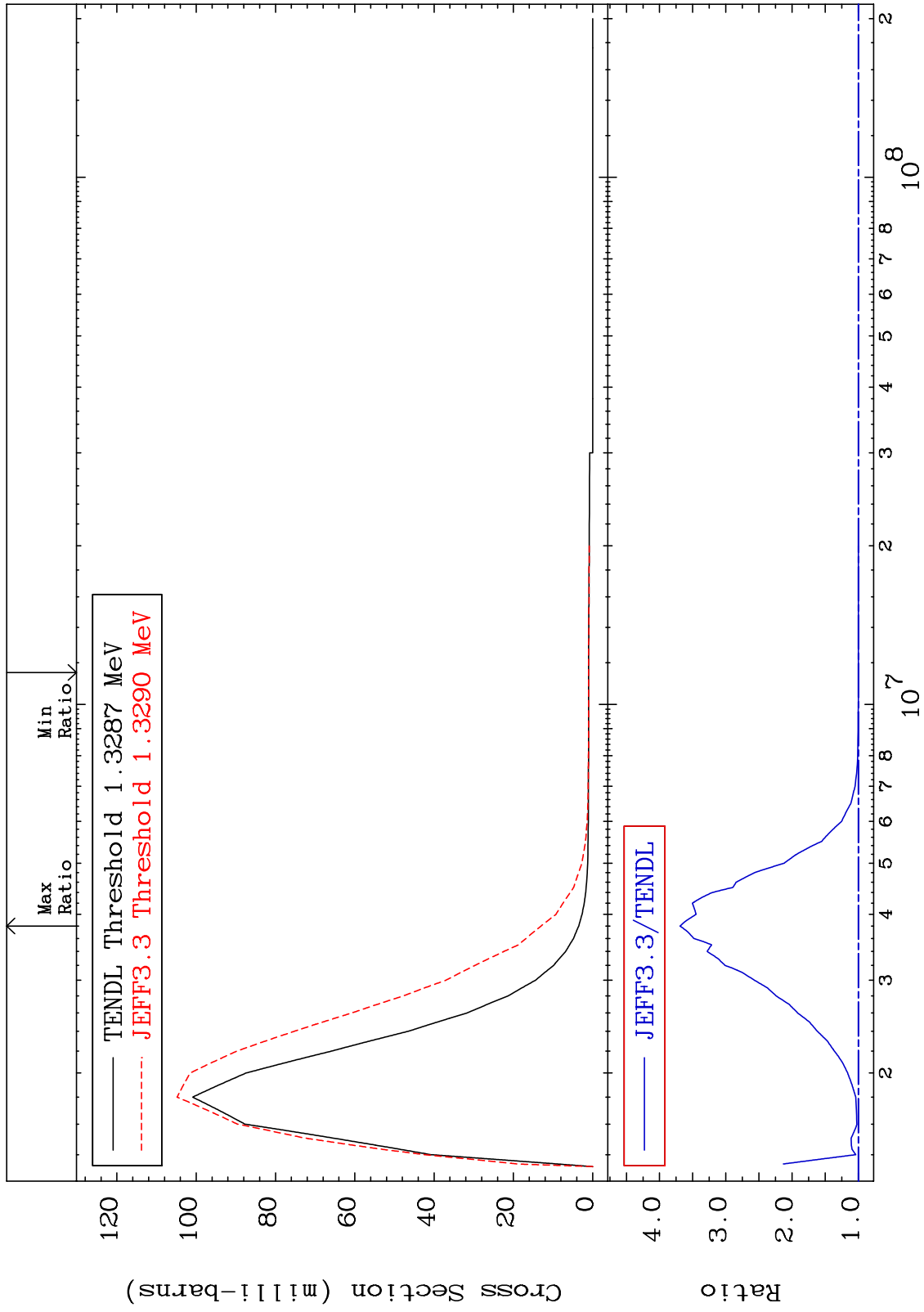
72-Hf-174
0.000 To 548.6 %



MAT 7225

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

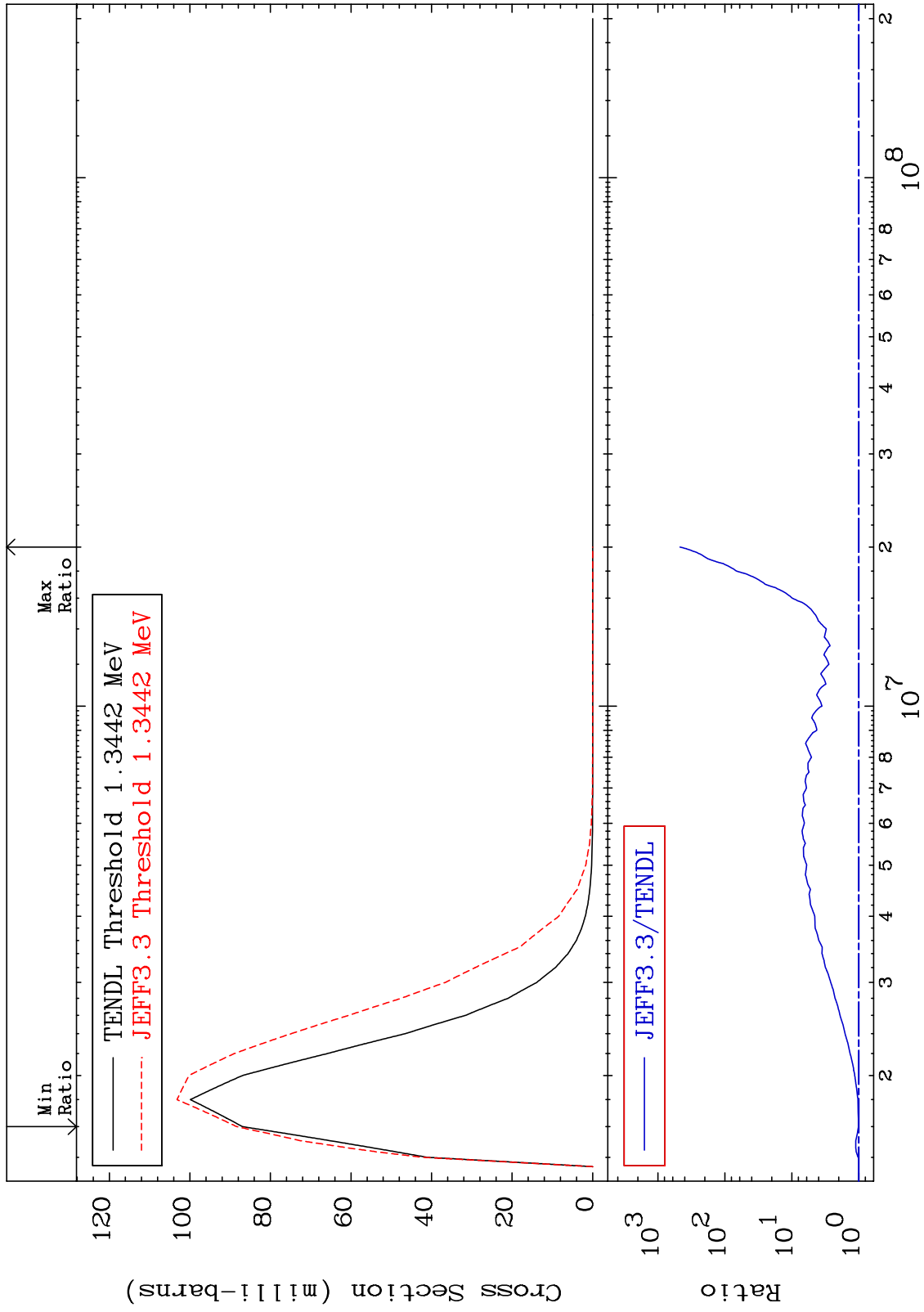
⁷²Hf-174
-0.110 To 269.1 %

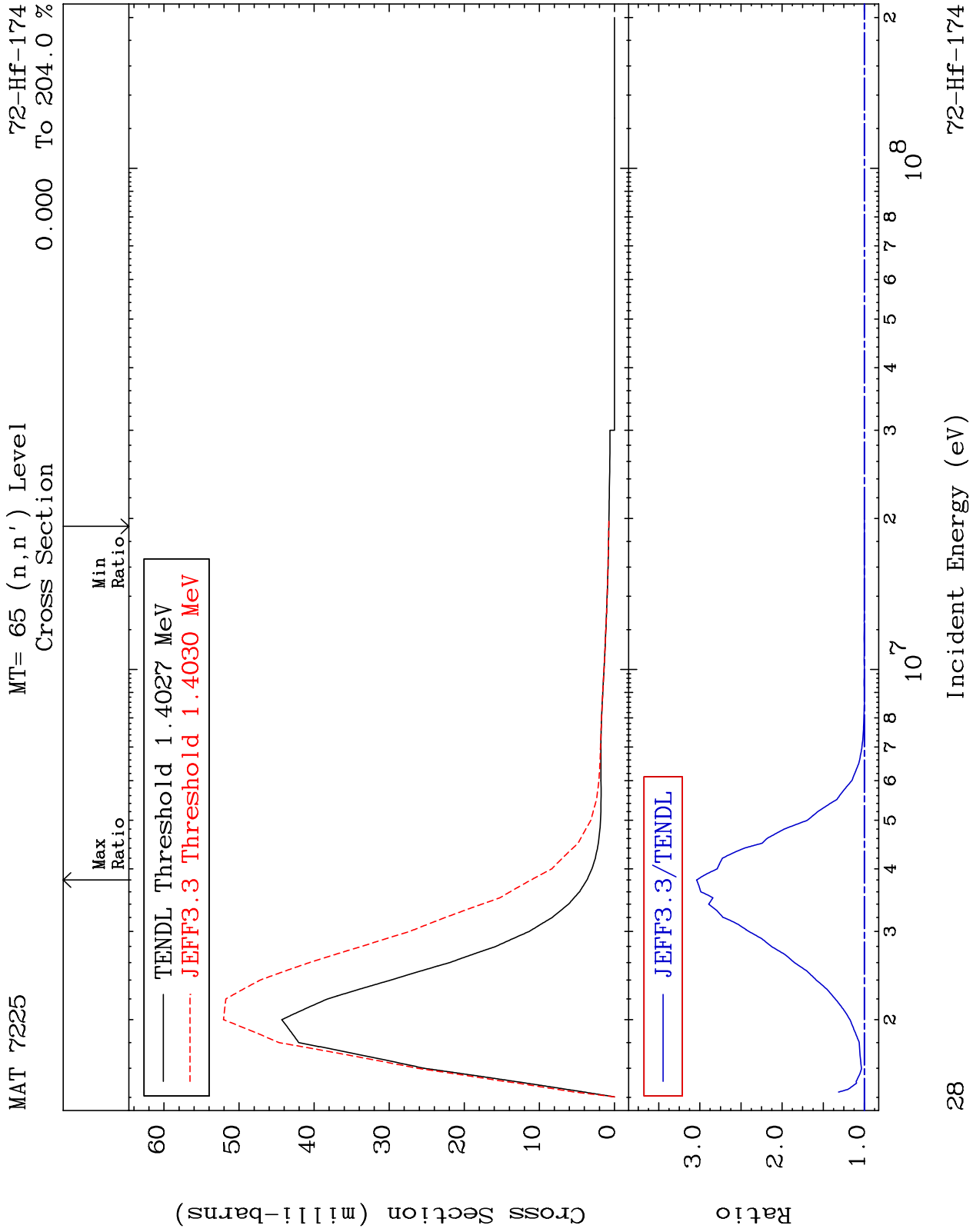


MAT 7225

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

72-Hf-174
1.636 To 9999. %

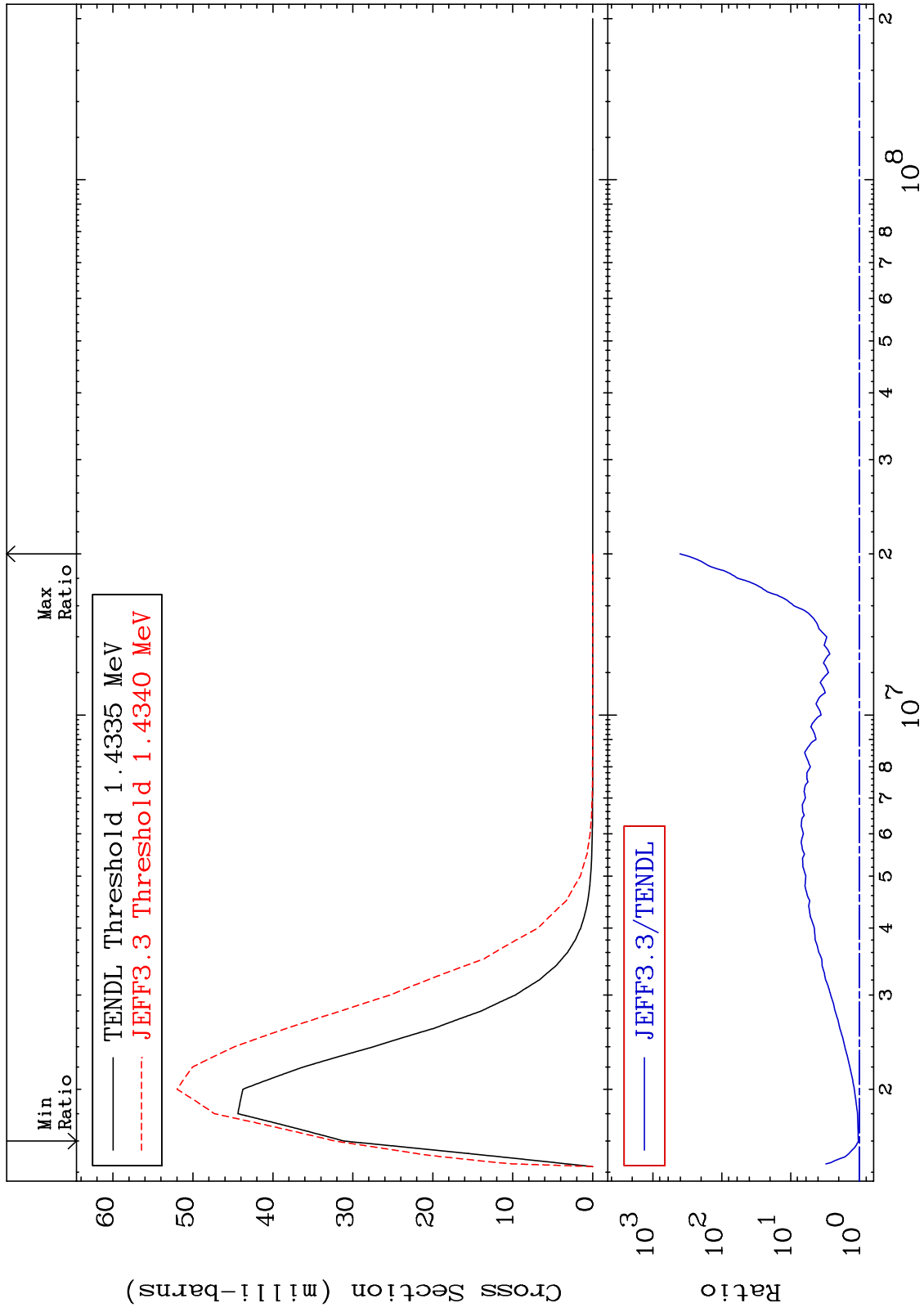




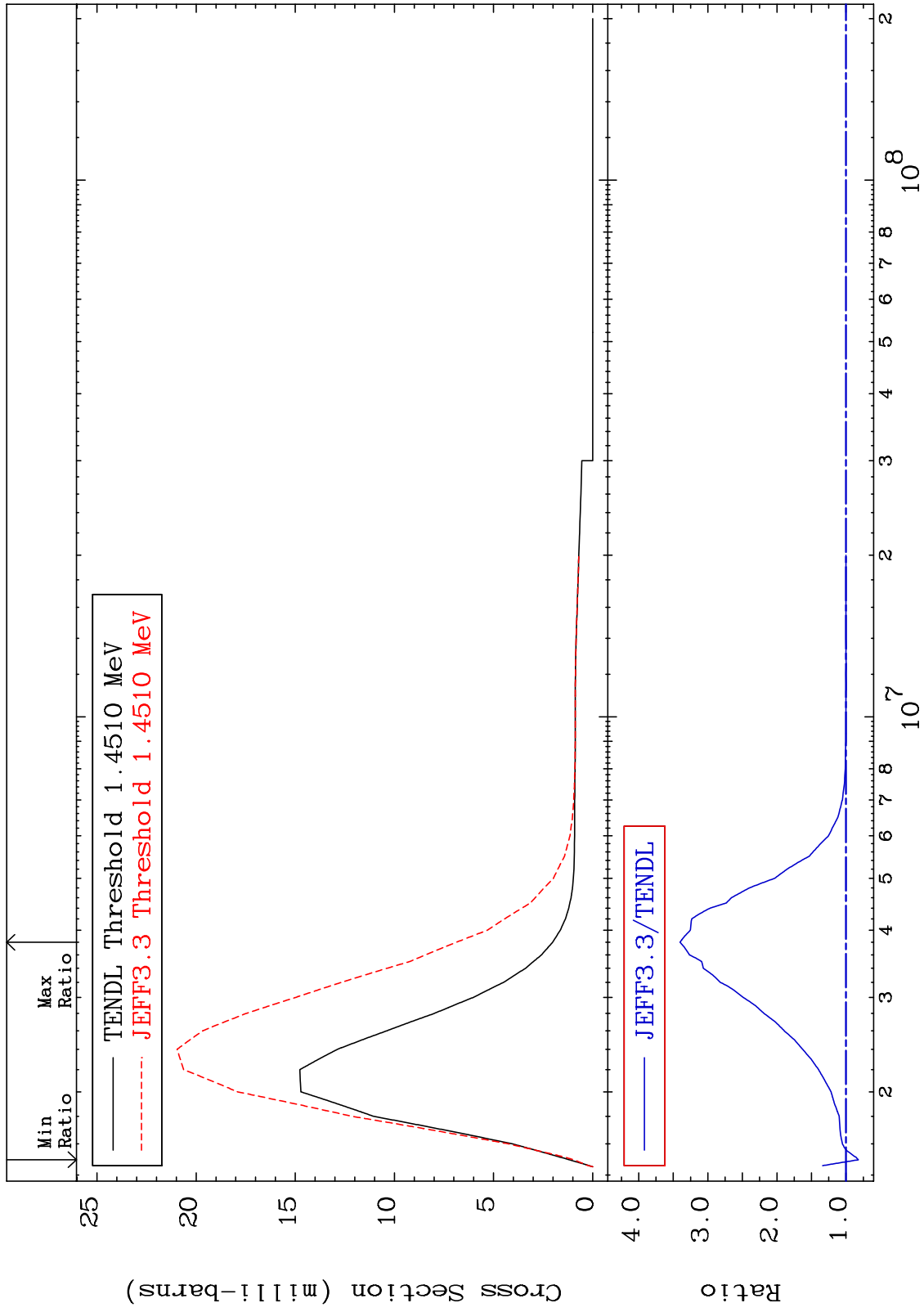
MAT 7225

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

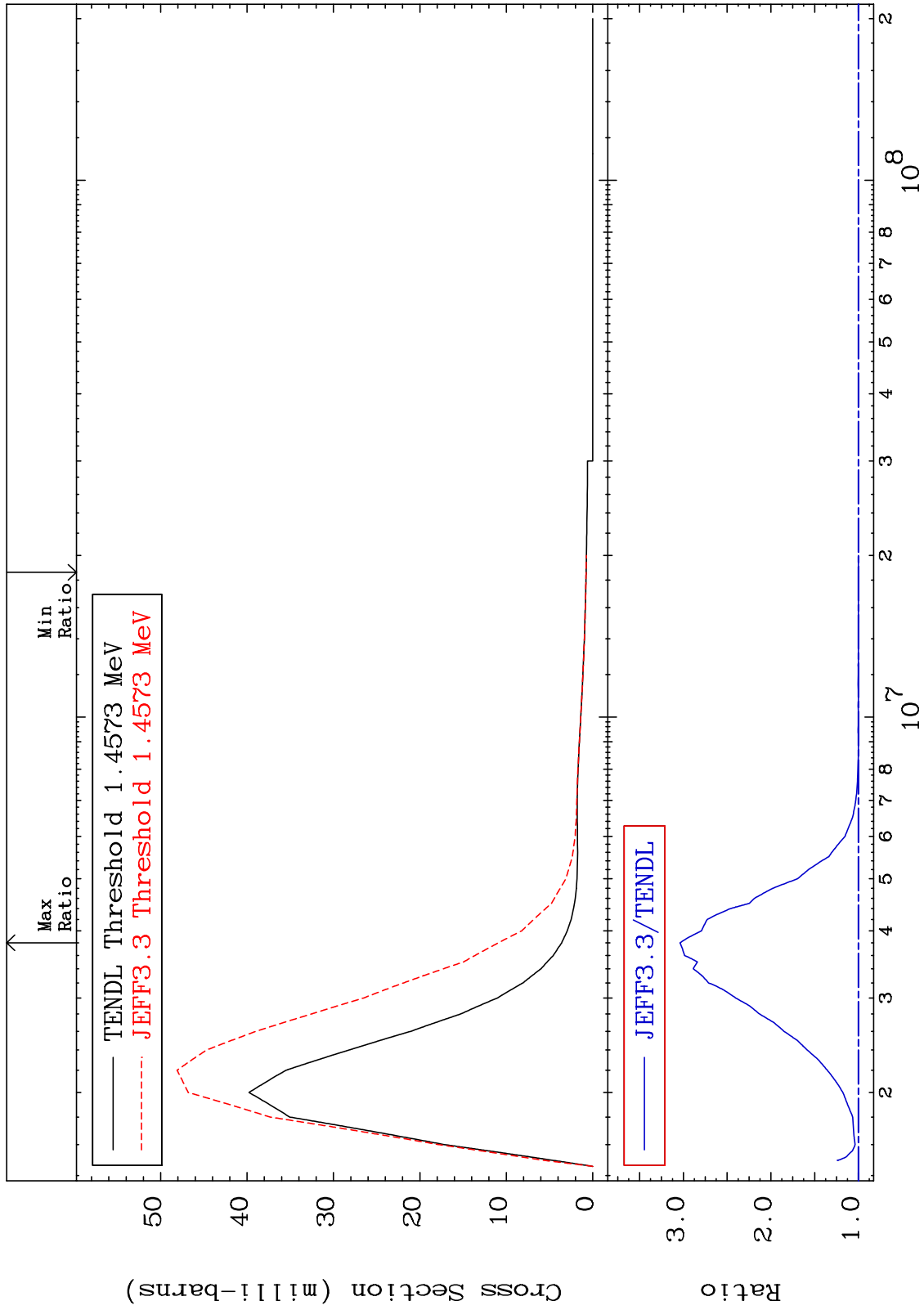
72-Hf-174
3.587 To 9999. %



MAT 7225 MT= 67 (n,n') Level
 Cross Section 72-Hf-174
 -17.95 To 240.2 %



MAT 7225 MT= 68 (n,n') Level Cross Section 72-Hf-174 To 203.8 %



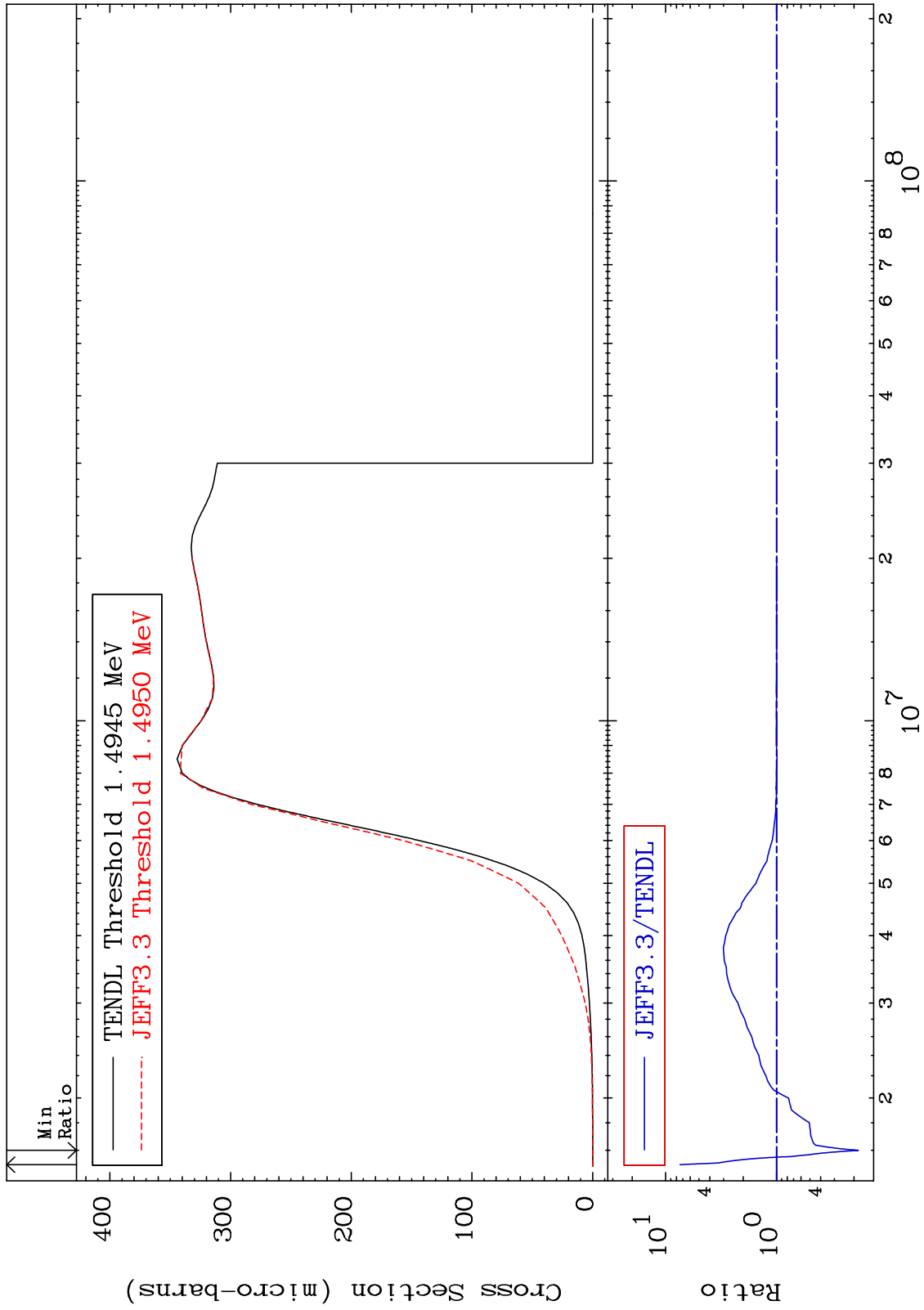
72-Hf-174

Incident Energy (eV)

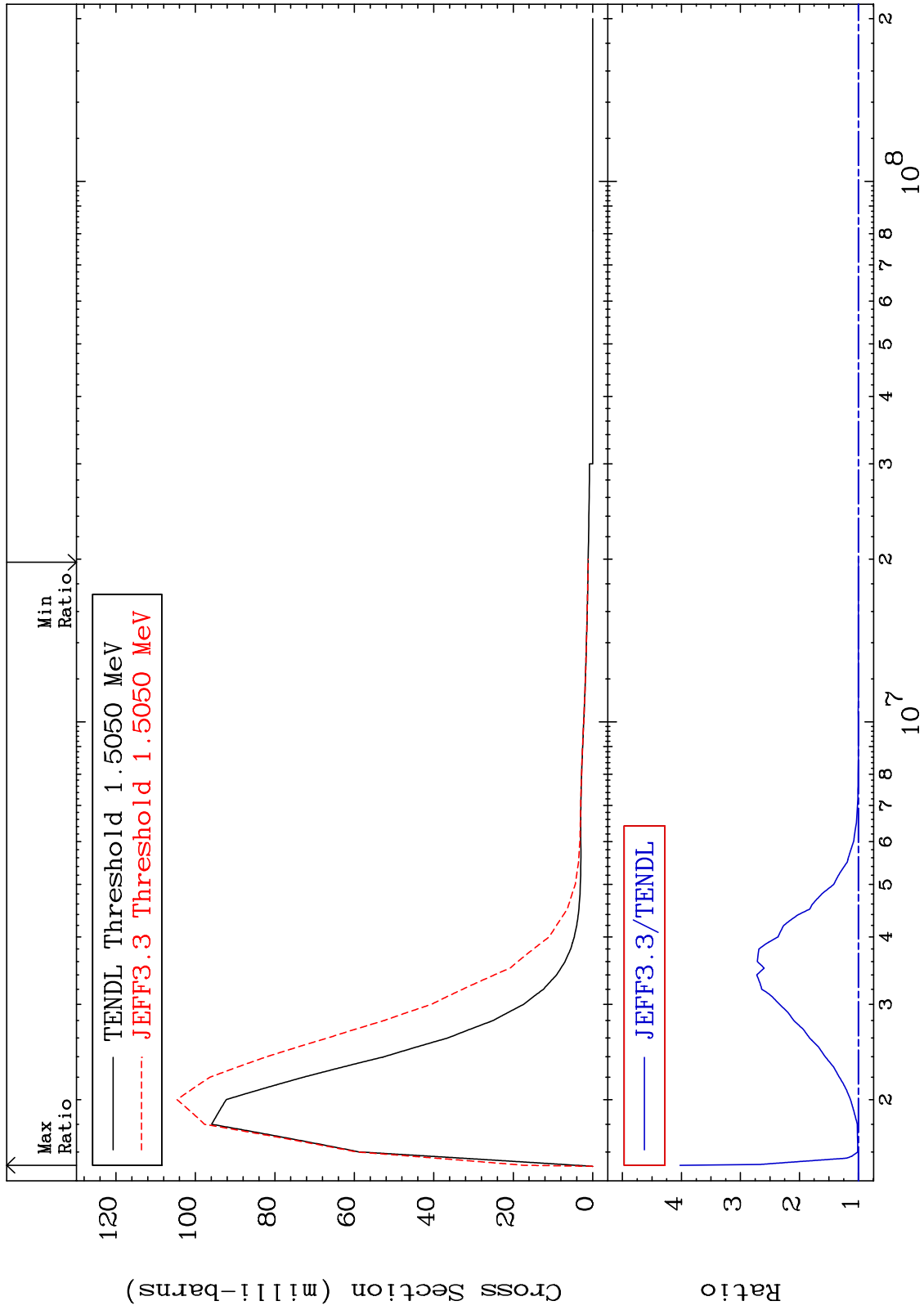
MAT 7225

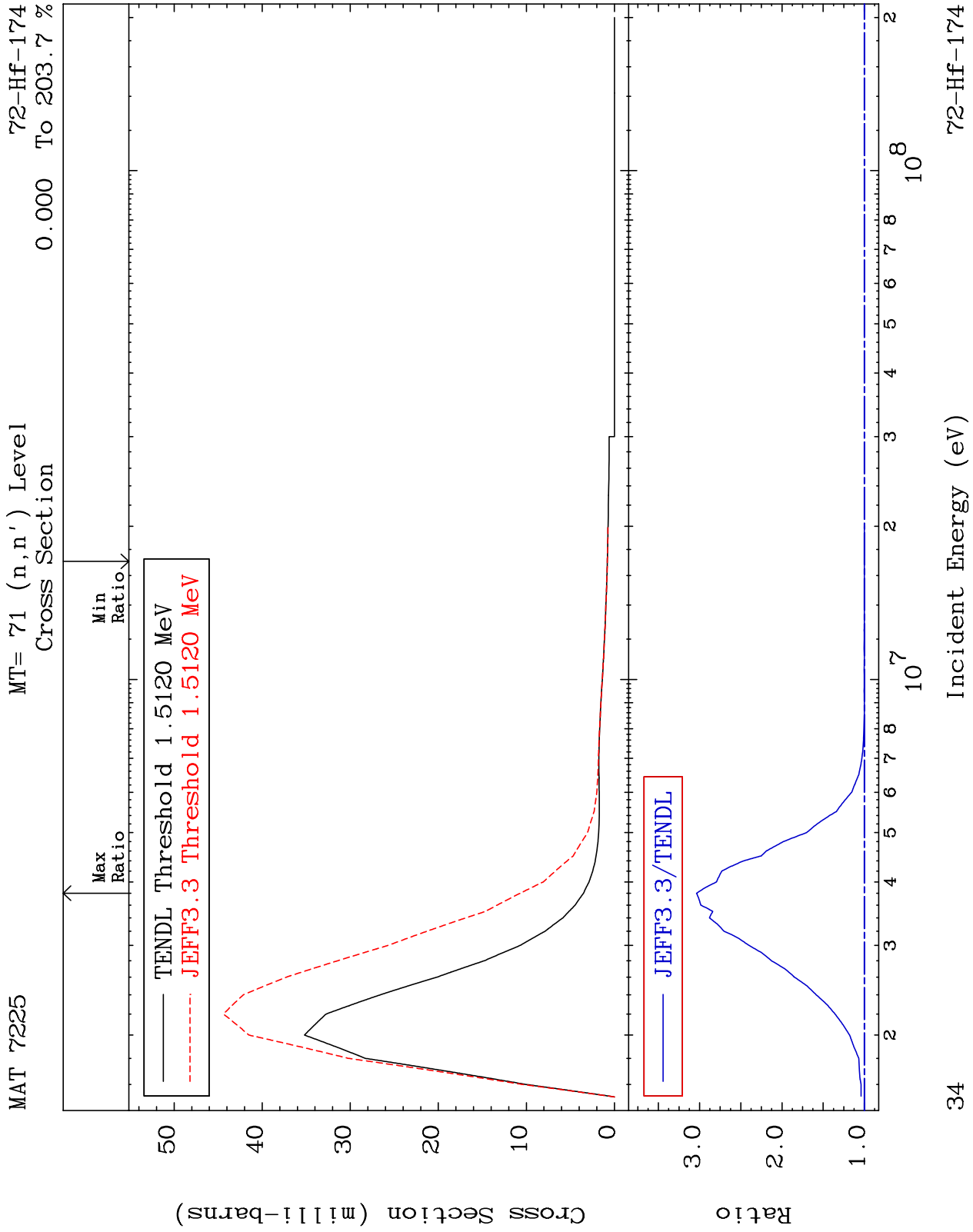
MT= 69 (n,n') Level
Cross Section

⁷²Hf-174
-81.75 To 641.8 %

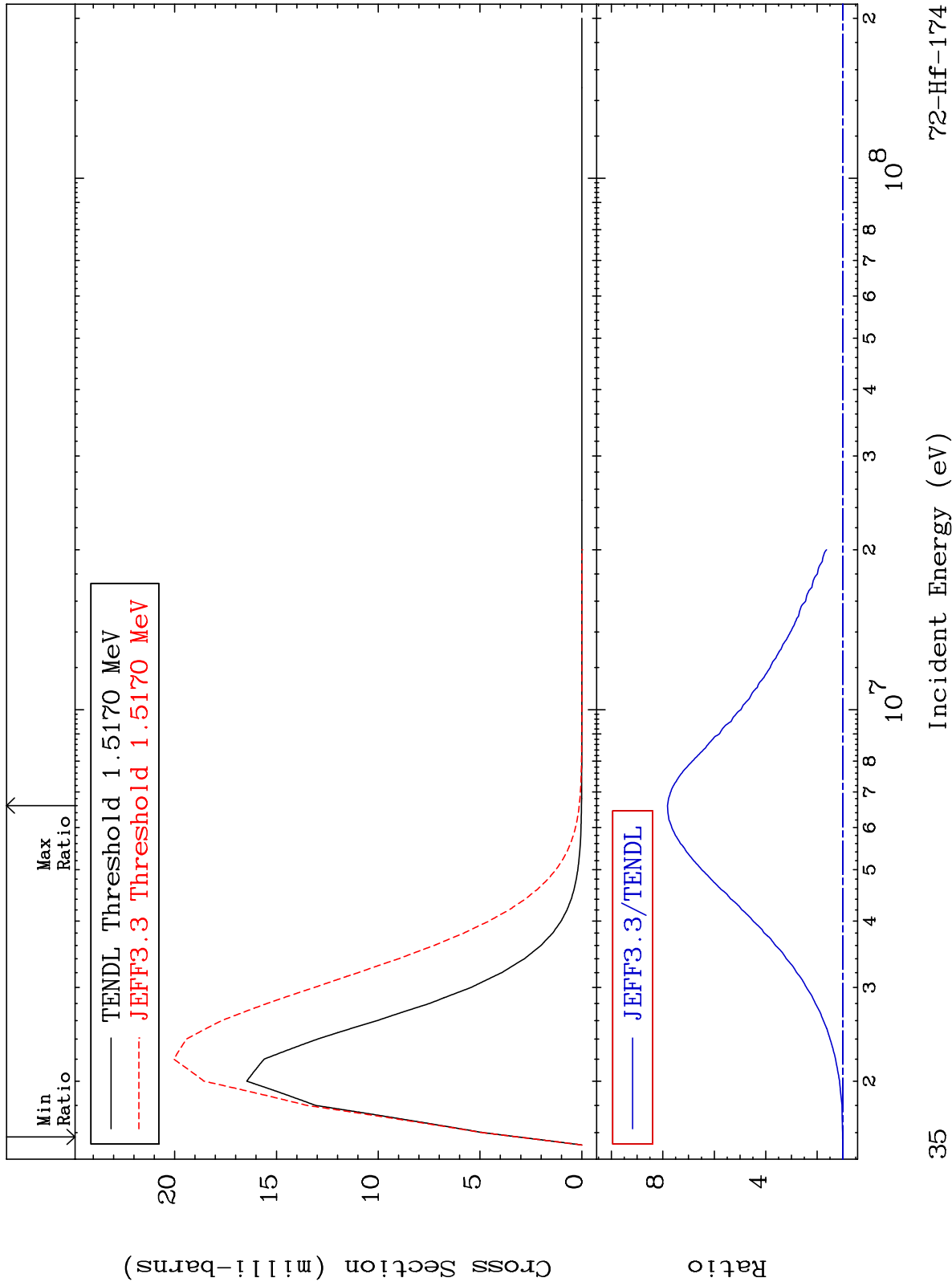


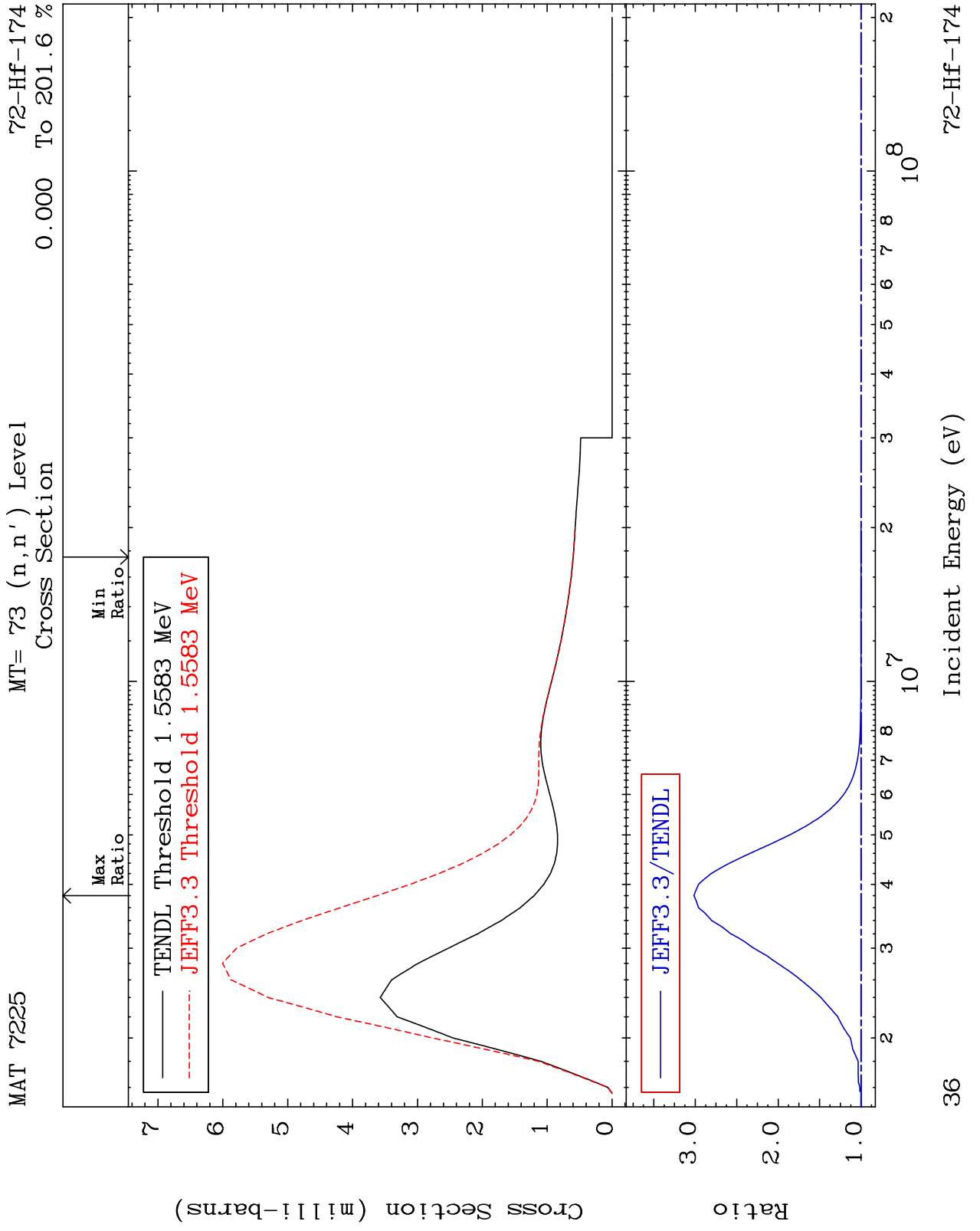
MAT 7225 MT= 70 (n,n') Level Cross Section 72-Hf-174
0.000 To 302.4 %





MAT 7225 MT= 72 (n,n') Level
Cross Section 72-Hf-174
0.578 To 681.8 %

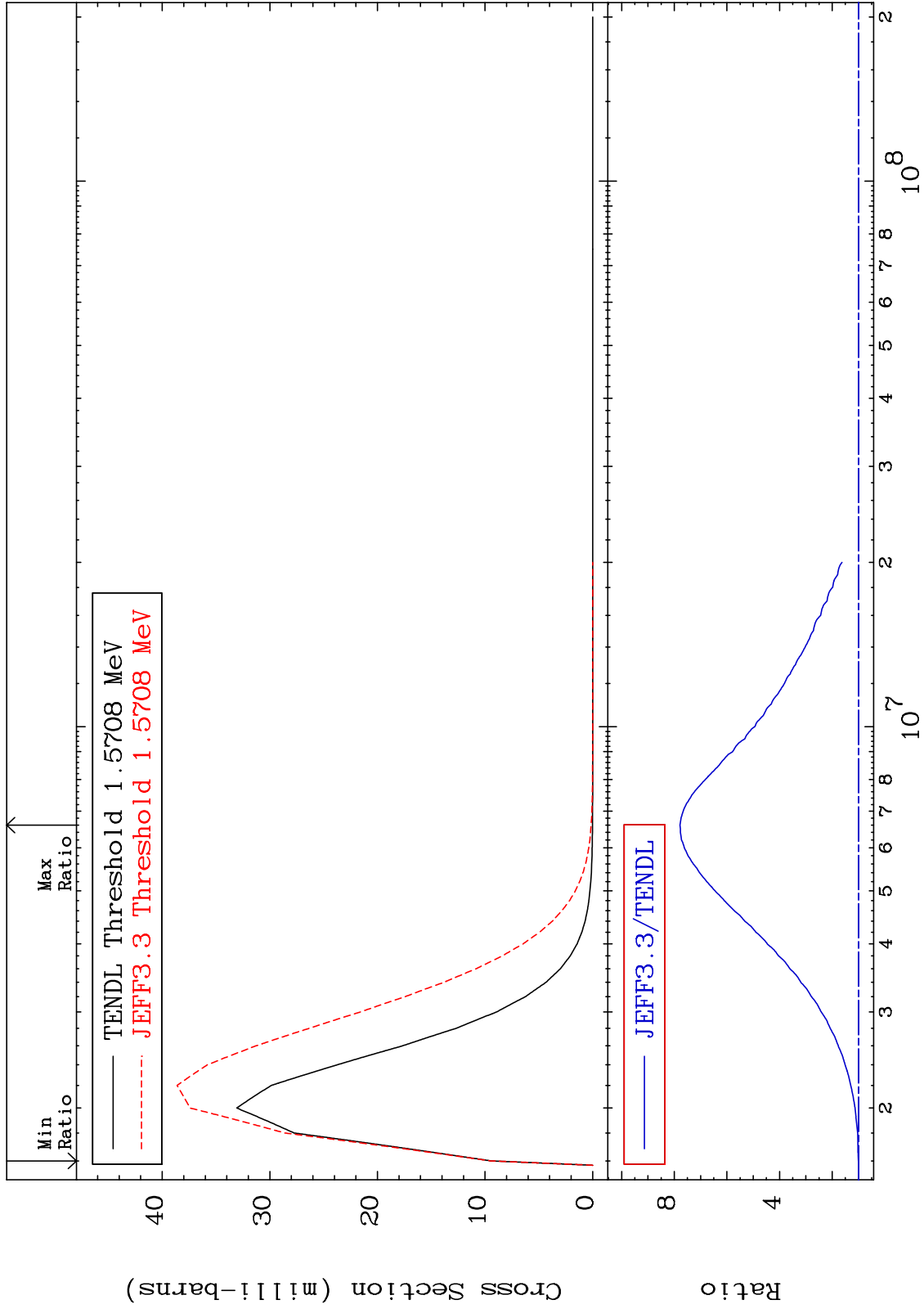


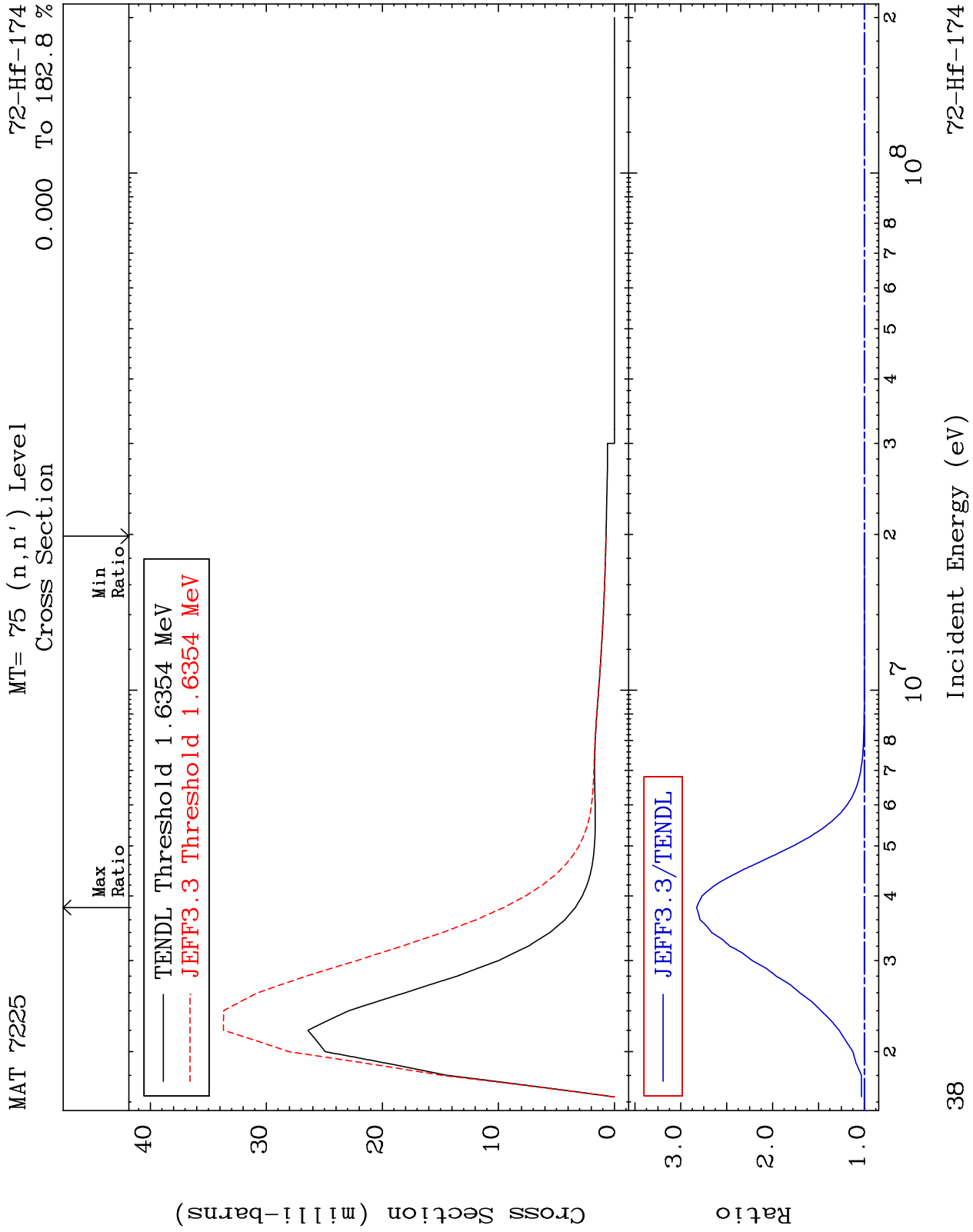


MAT 7225

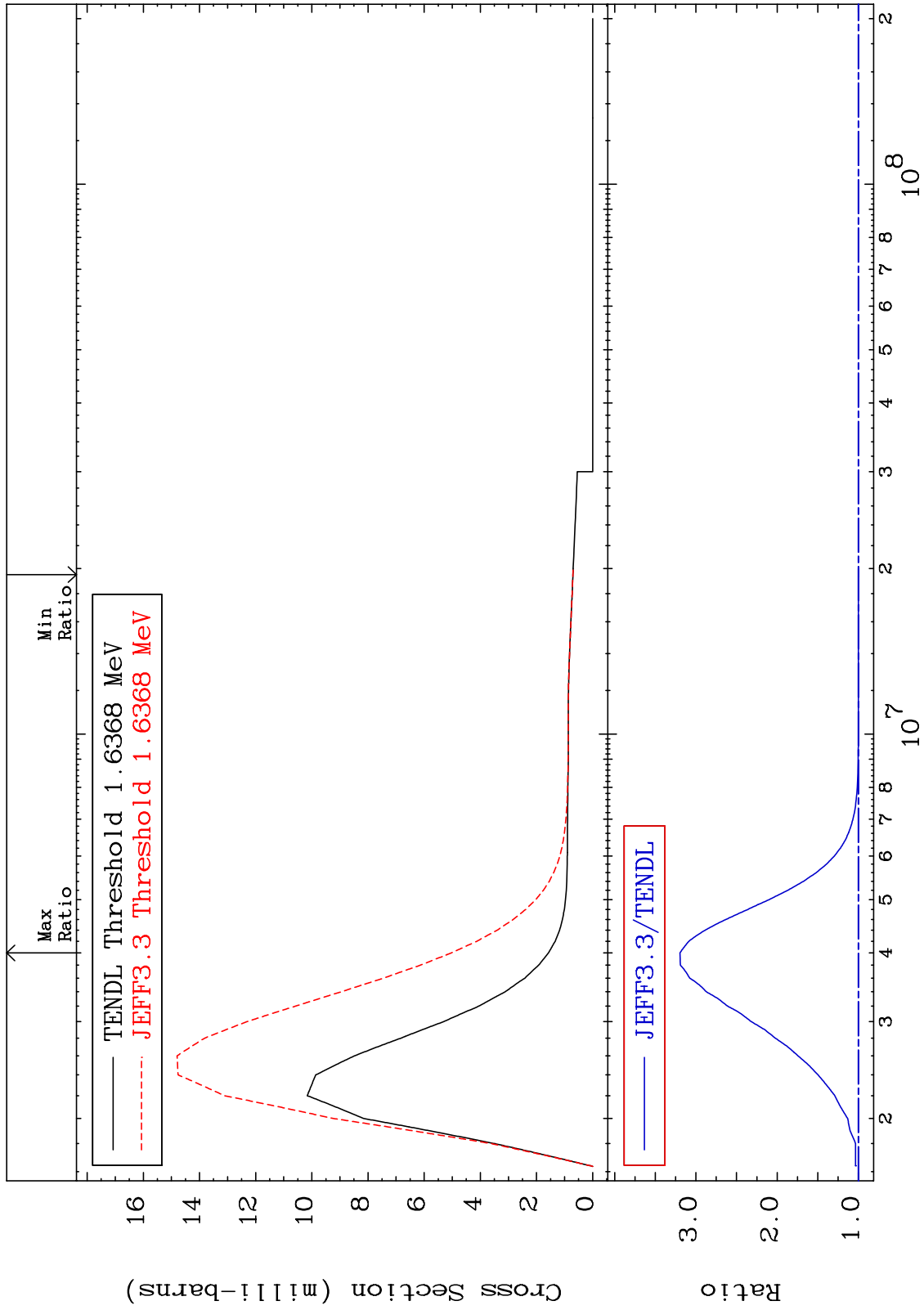
MT= 74 (n,n') Level
Cross Section

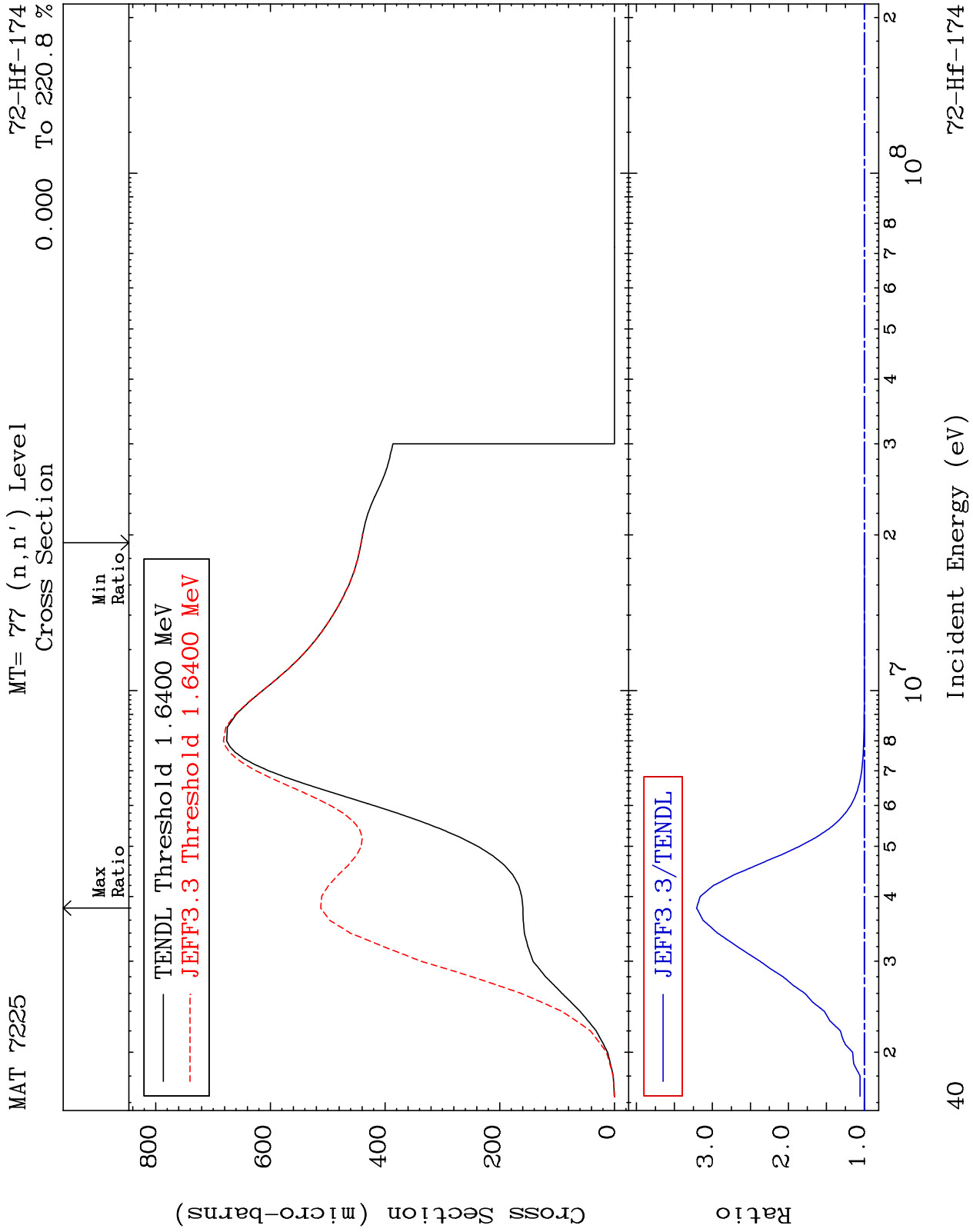
72-Hf-174
0.389 To 678.1 %



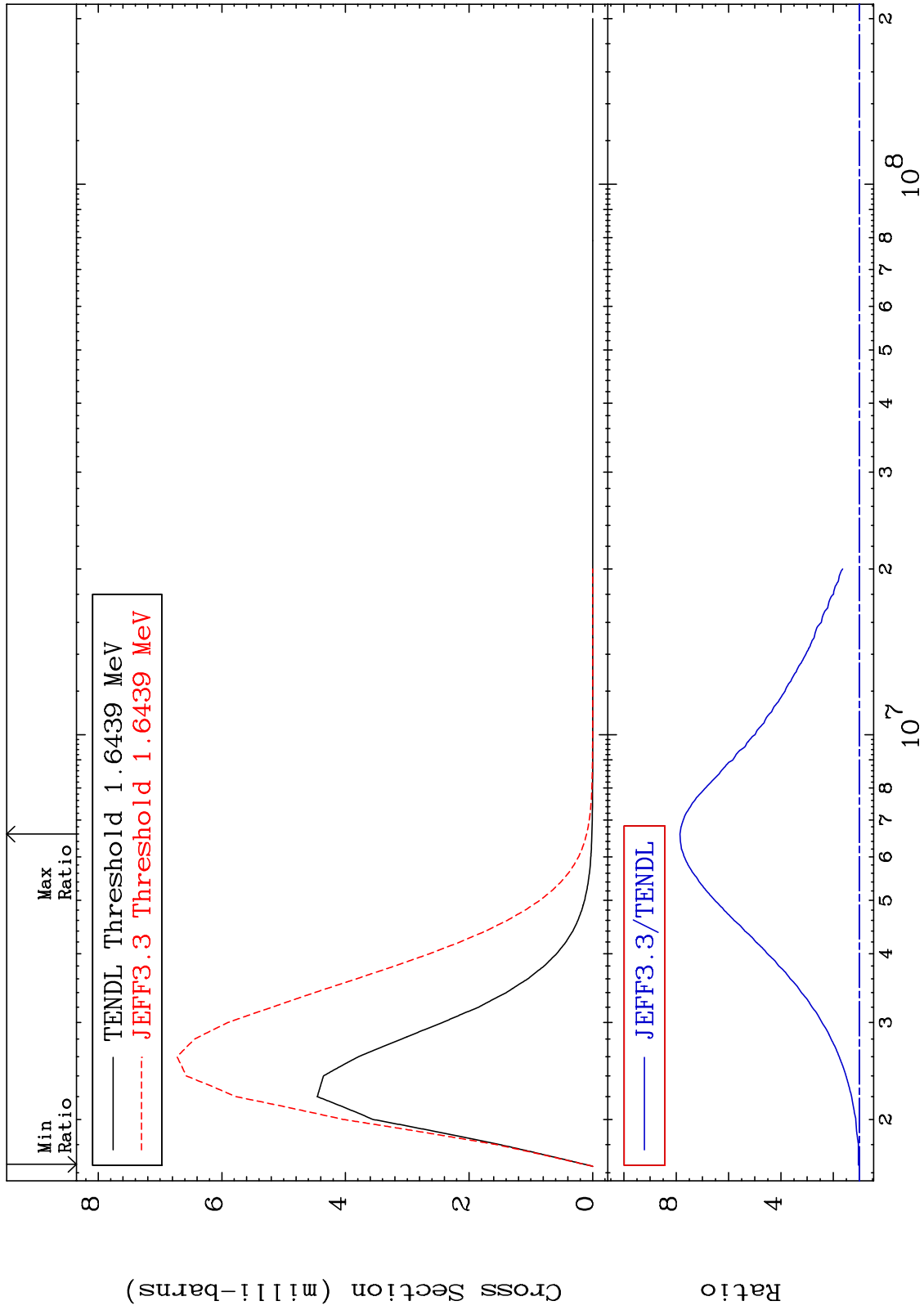


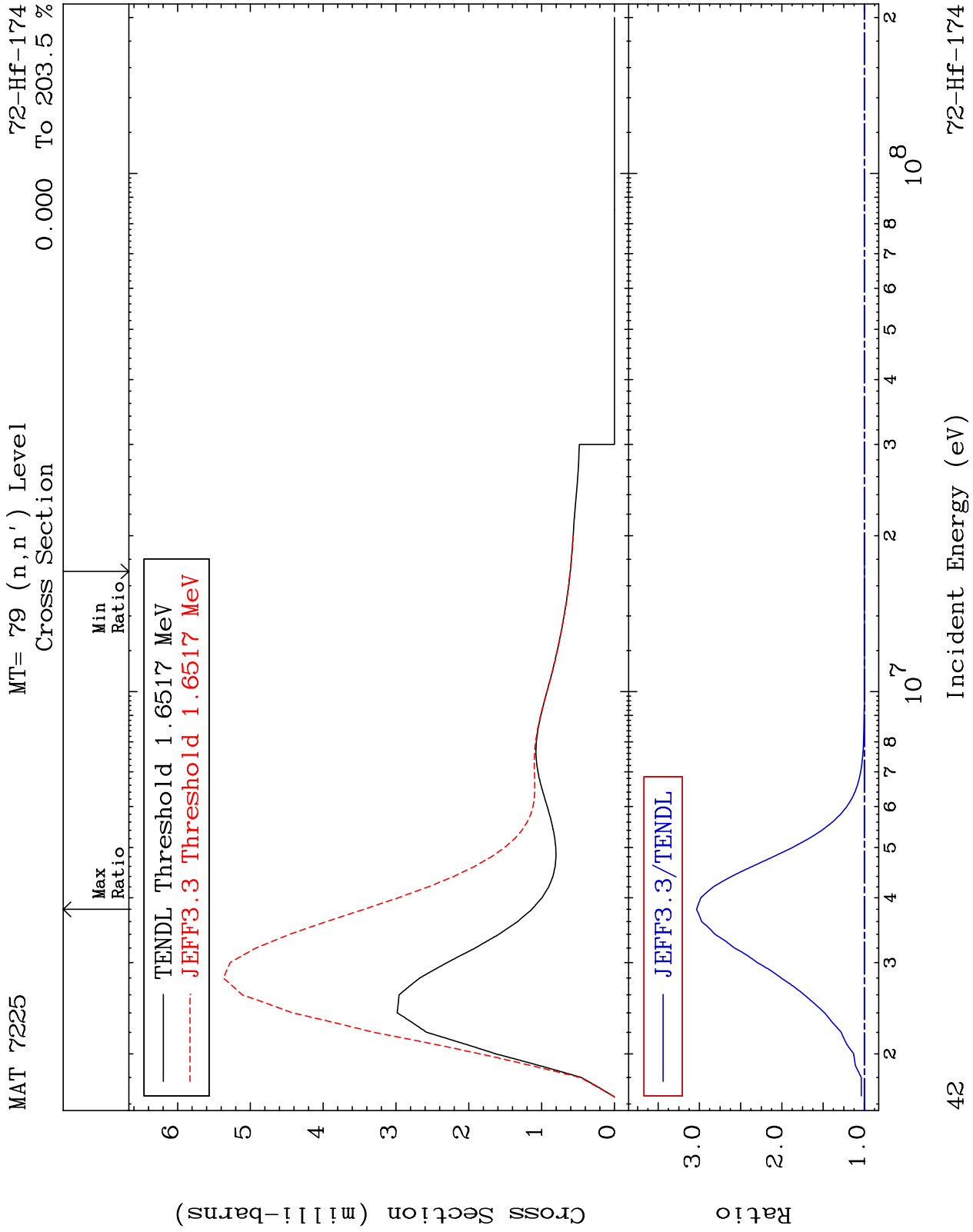
MAT 7225 MT= 76 (n,n') Level Cross Section 72-Hf-174 To 219.6 %
 0.000





MAT 7225 MT= 78 (n,n') Level Cross Section 72-Hf-174 3.683 To 685.7 %

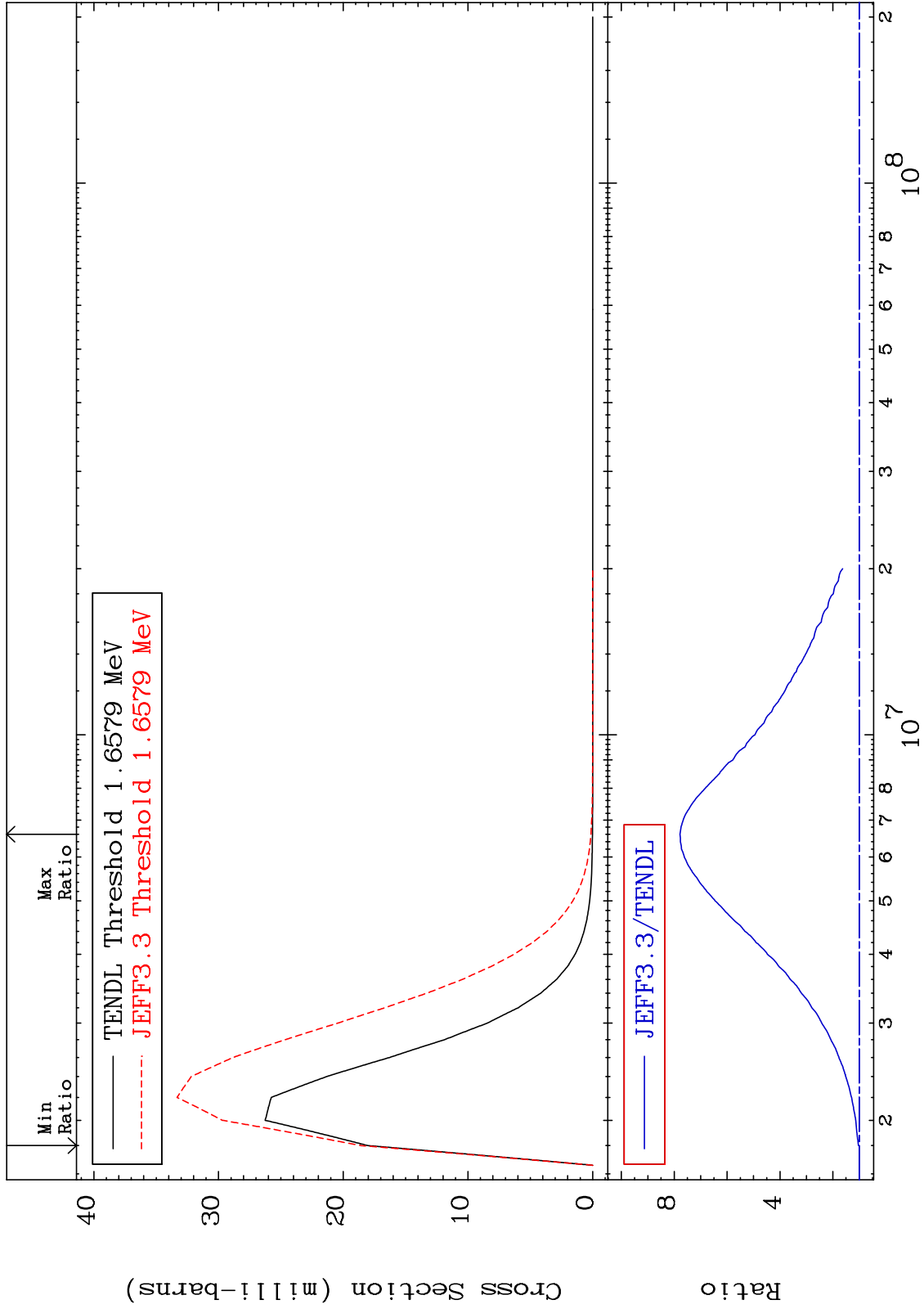




MAT 7225

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

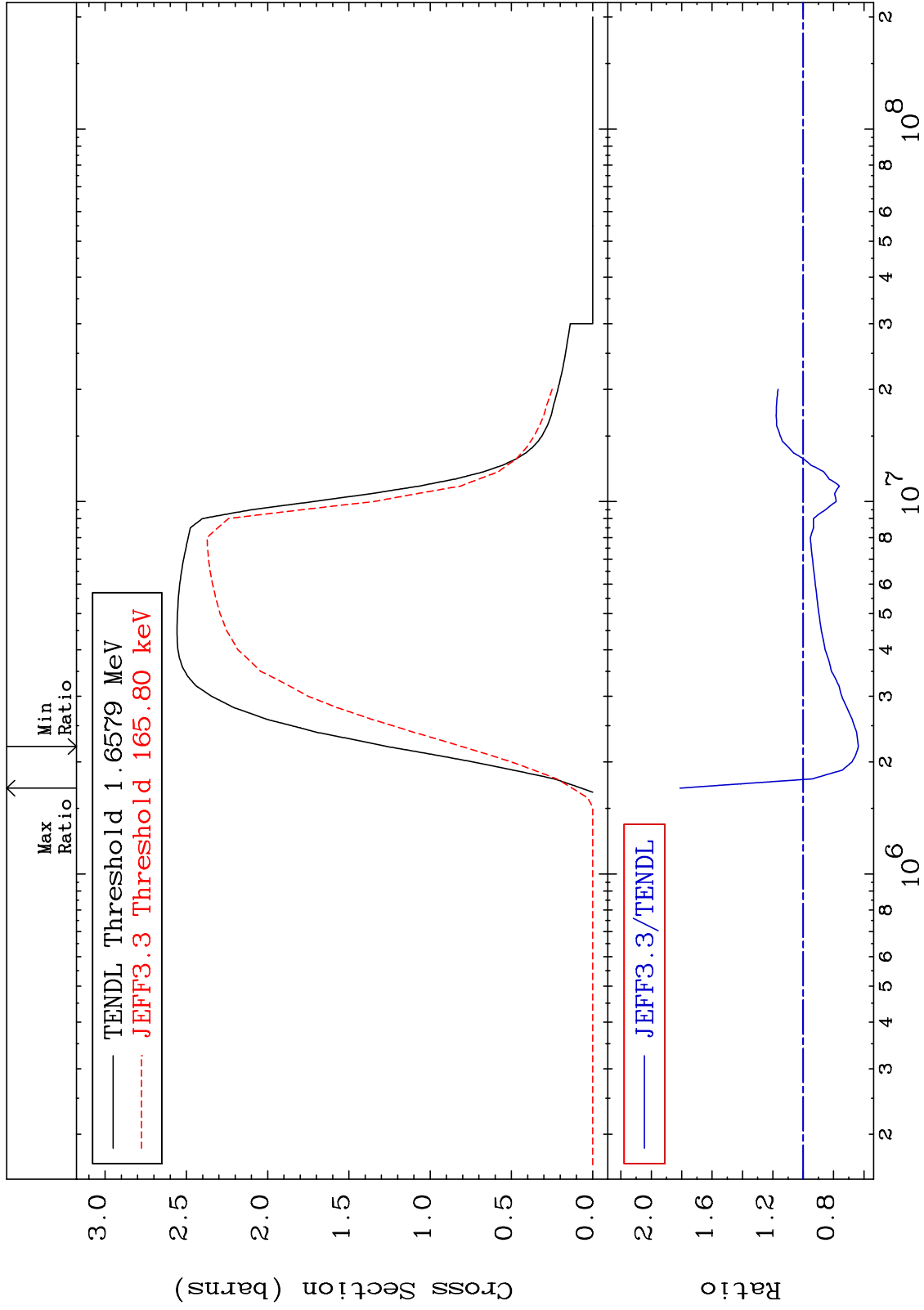
72-Hf-174
3.146 To 678.1 %



MAT 7225

(n, n') Continuum
Cross Section

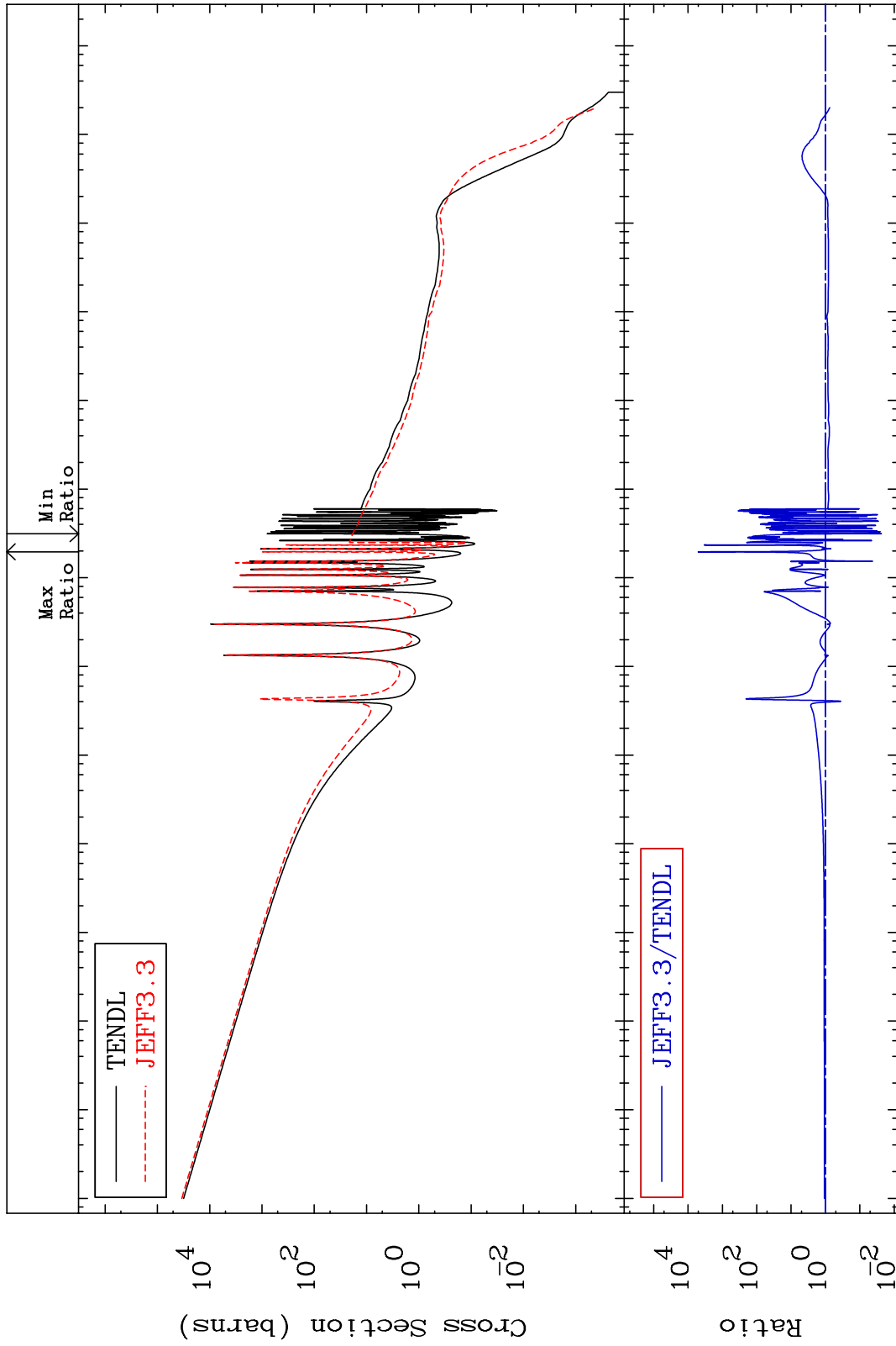
⁷²Hf-174
-36.33 To 81.10 %



MAT 7225

(n, γ)
Cross Section

72-Hf-174
-97.67 To 9999. %



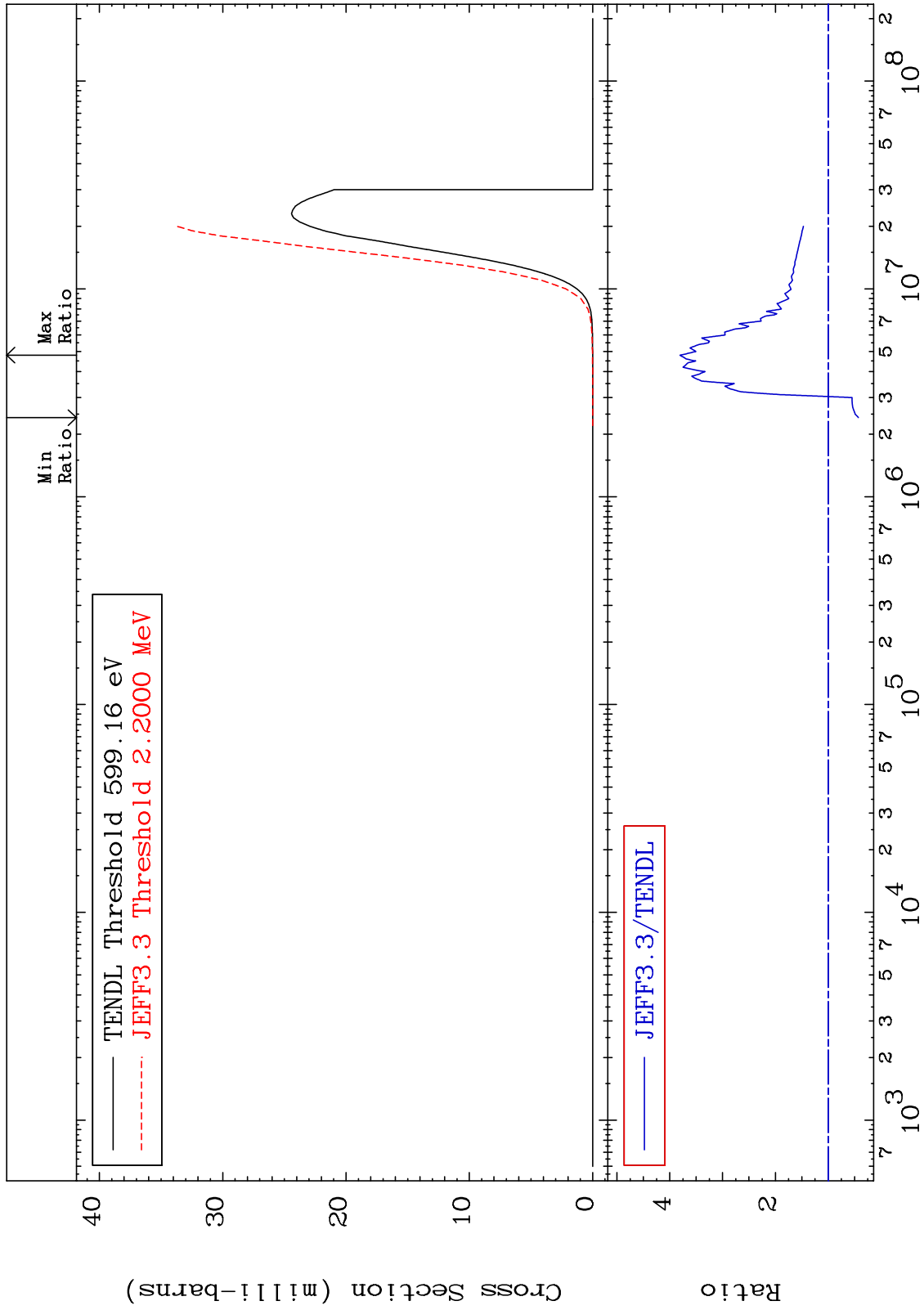
MAT 7225

(n, p)

72-Hf-174

Cross Section

-57.18 To 280.5 %



46

Incident Energy (eV)

72-Hf-174

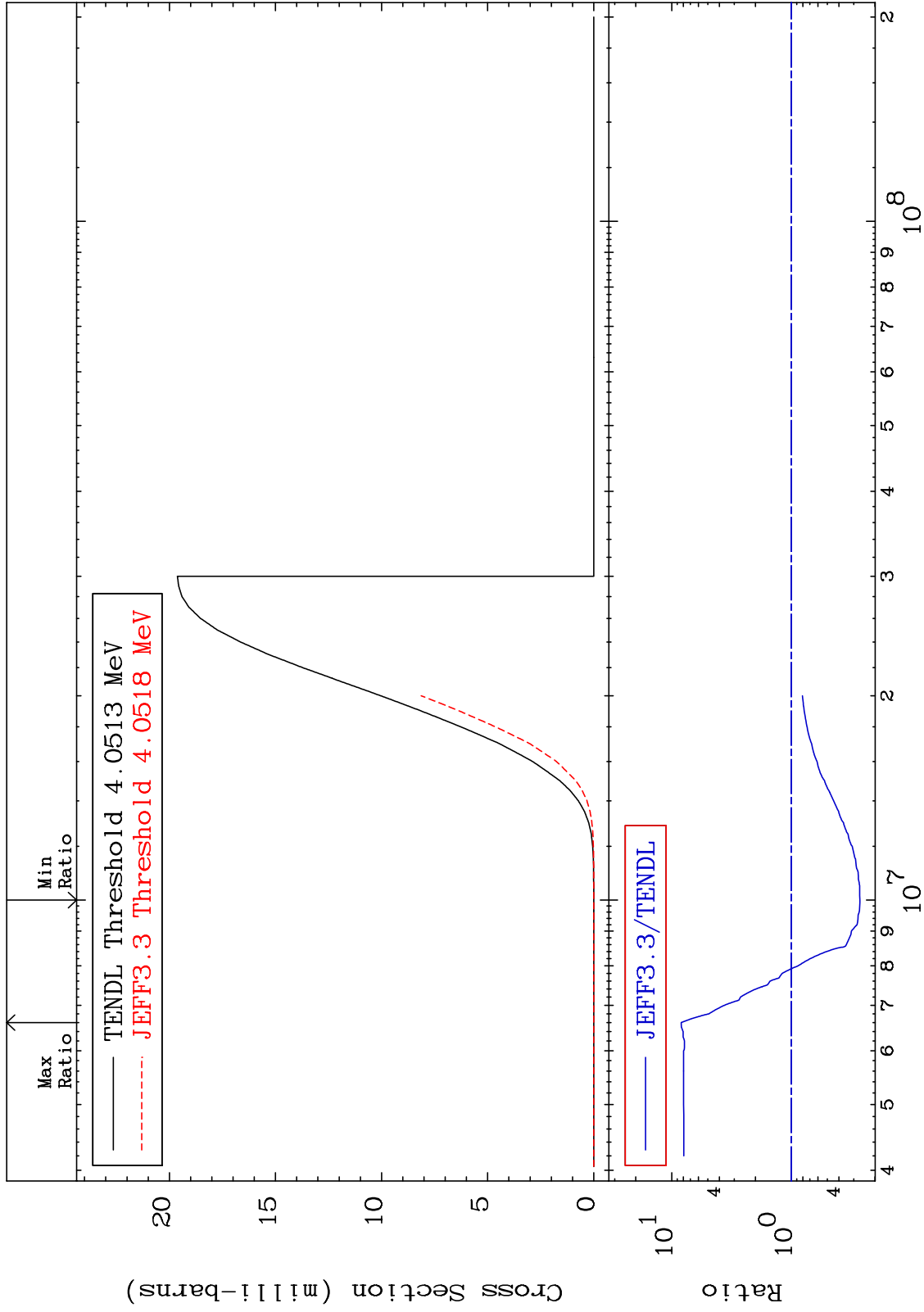
MAT 7225

(n, d)

72-Hf-174

Cross Section

-73.31 To 734.0 %



47

Incident Energy (eV)

72-Hf-174

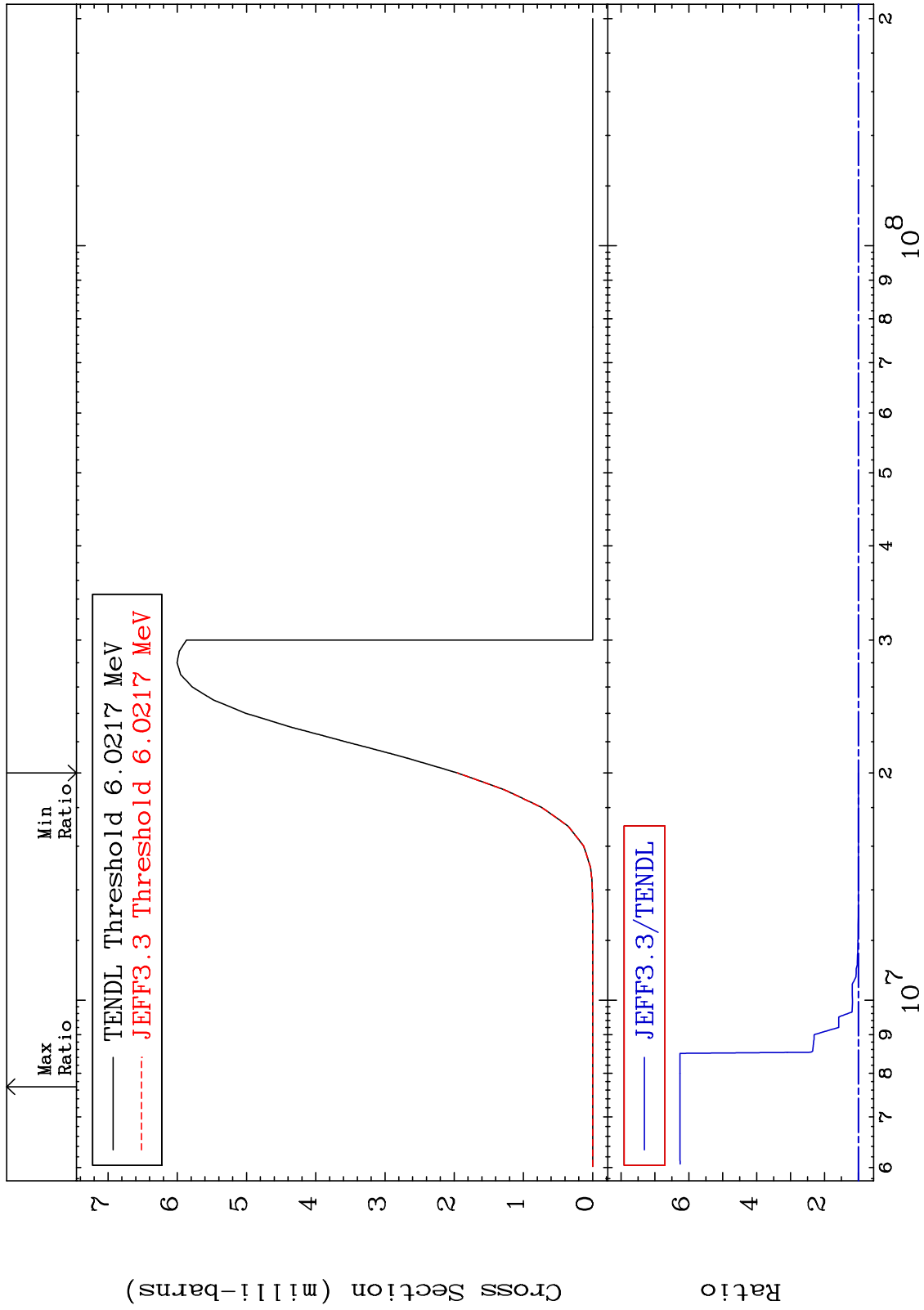
MAT 7225

(n, t)

72-Hf-174

Cross Section

-0.001 To 526.1 %



48

Incident Energy (eV)

72-Hf-174

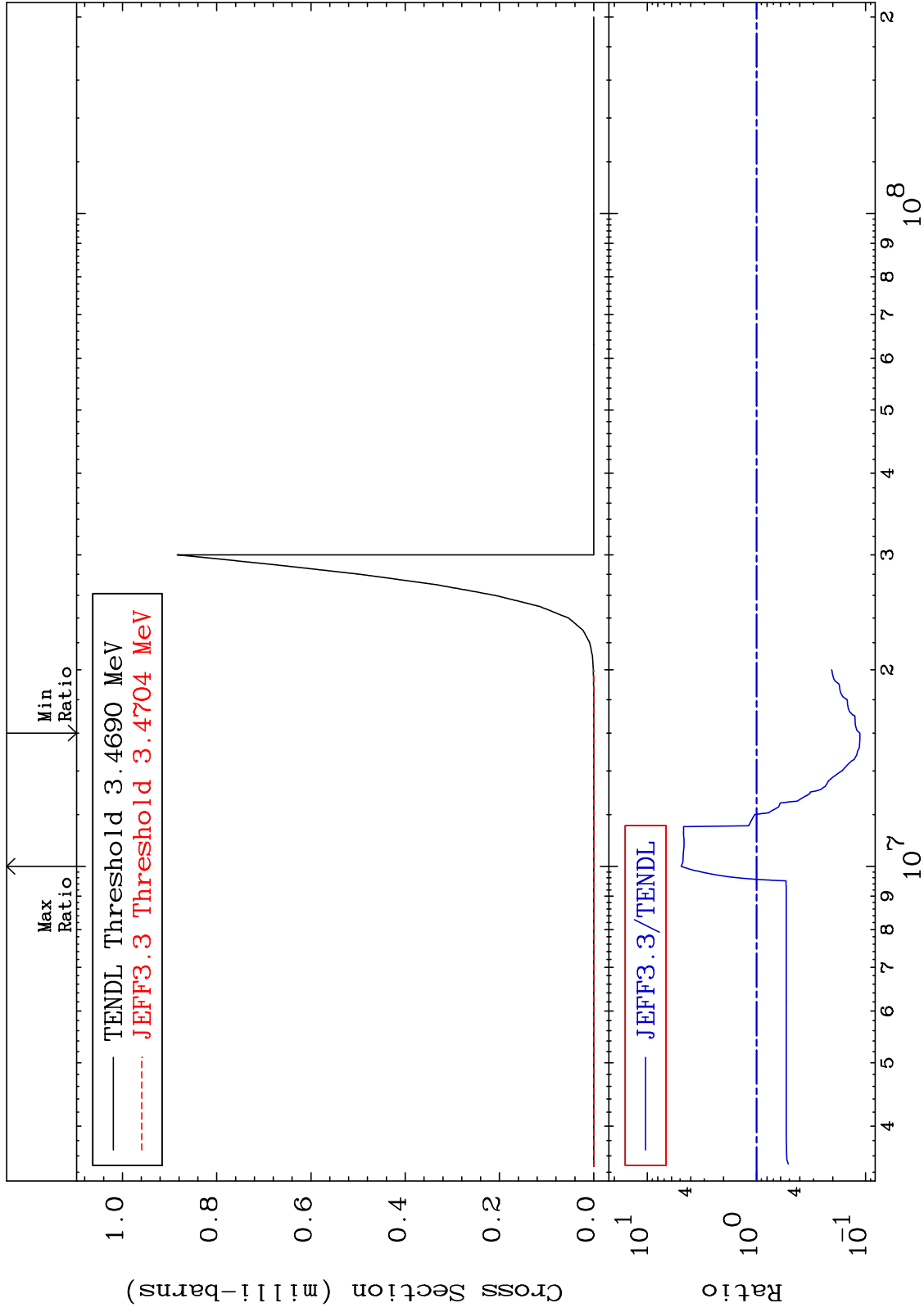
MAT 7225

(n, He-3)

72-Hf-174

Cross Section

-88.72 To 388.4 %



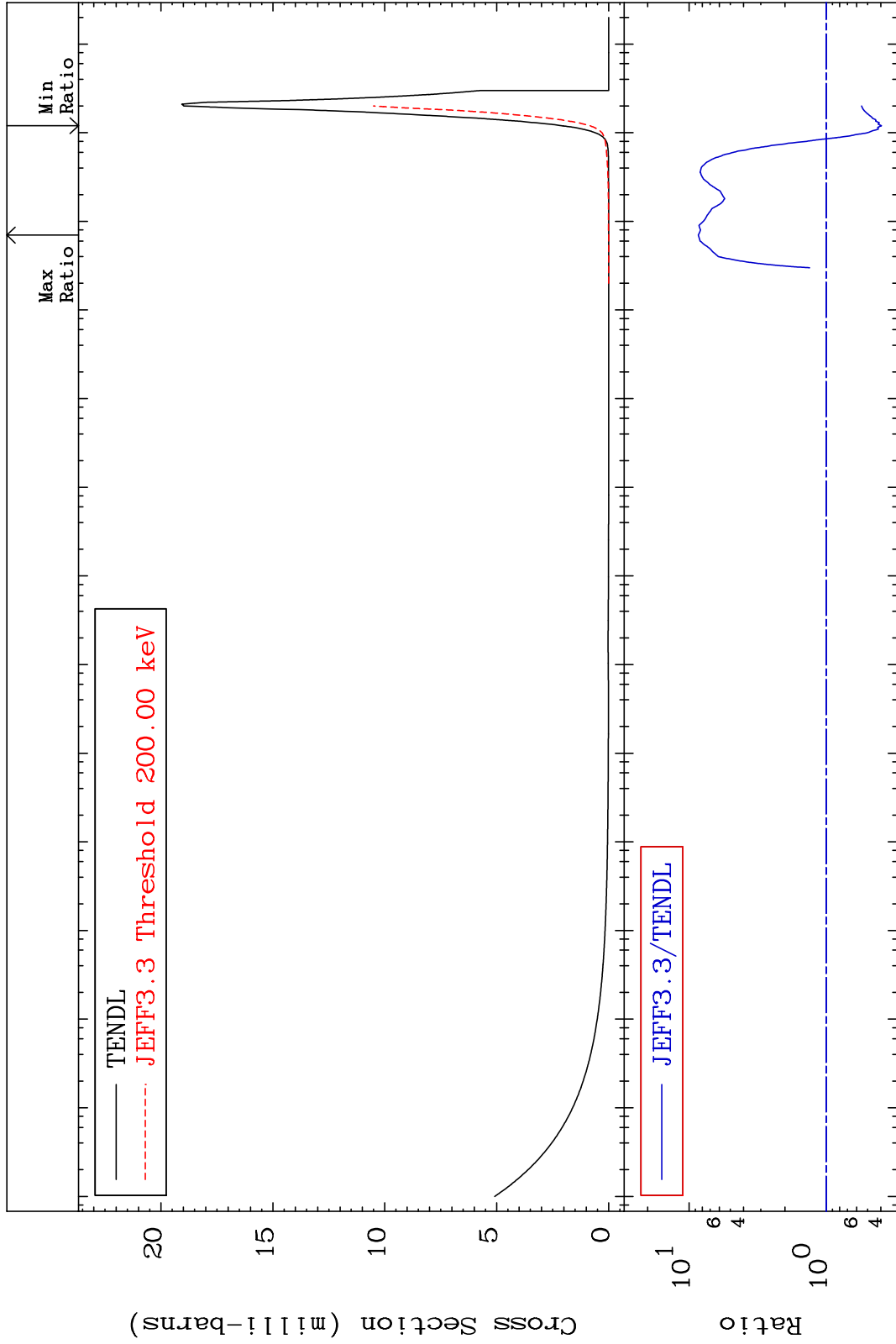
MAT 7225

(n, α)

72-Hf-174

Cross Section

-60.48 To 754.8 %



50

10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

Incident Energy (eV)

72-Hf-174

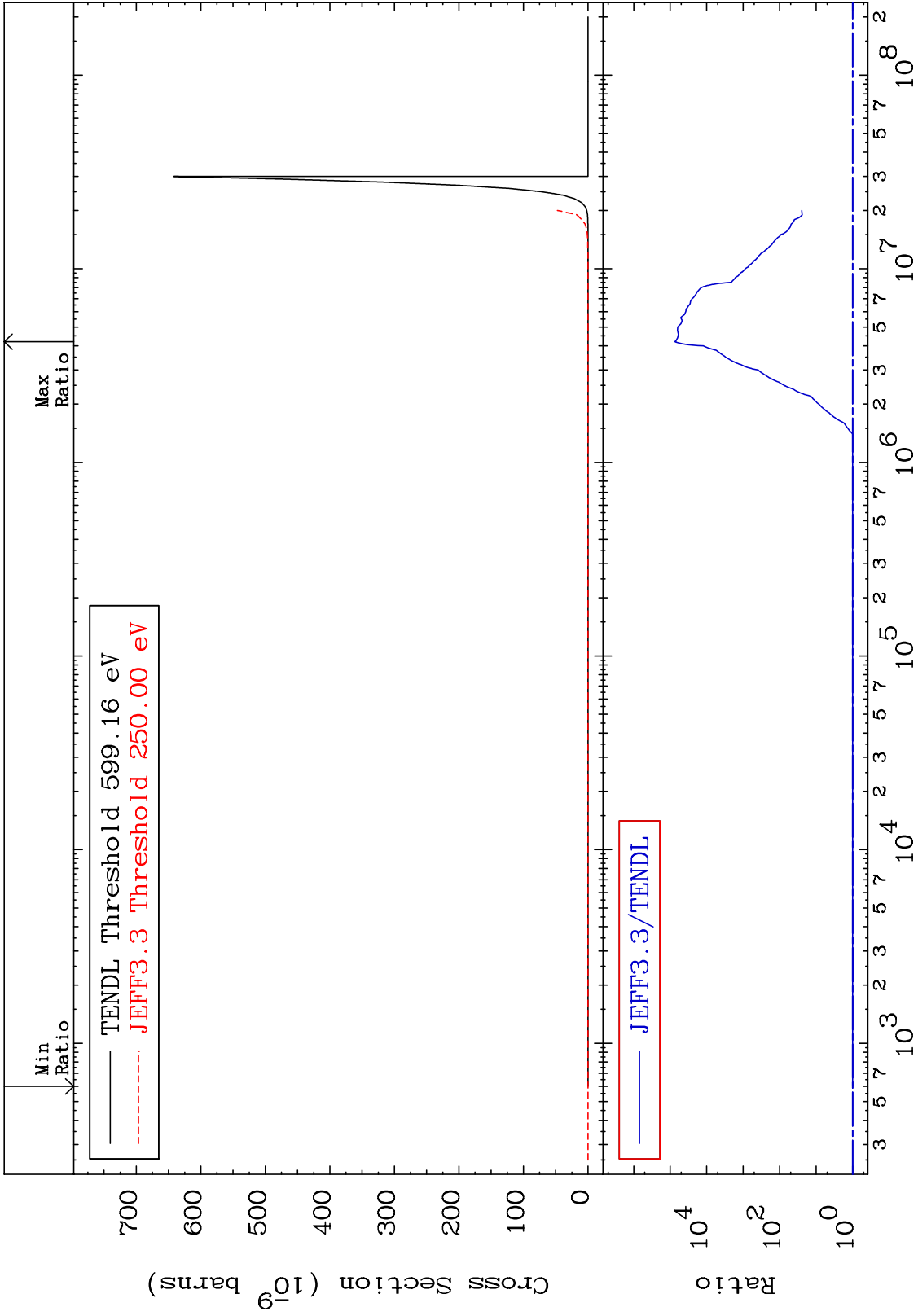
MAT 7225

(n, 2α)

72-Hf-174

Cross Section

0.000 To 9999. %



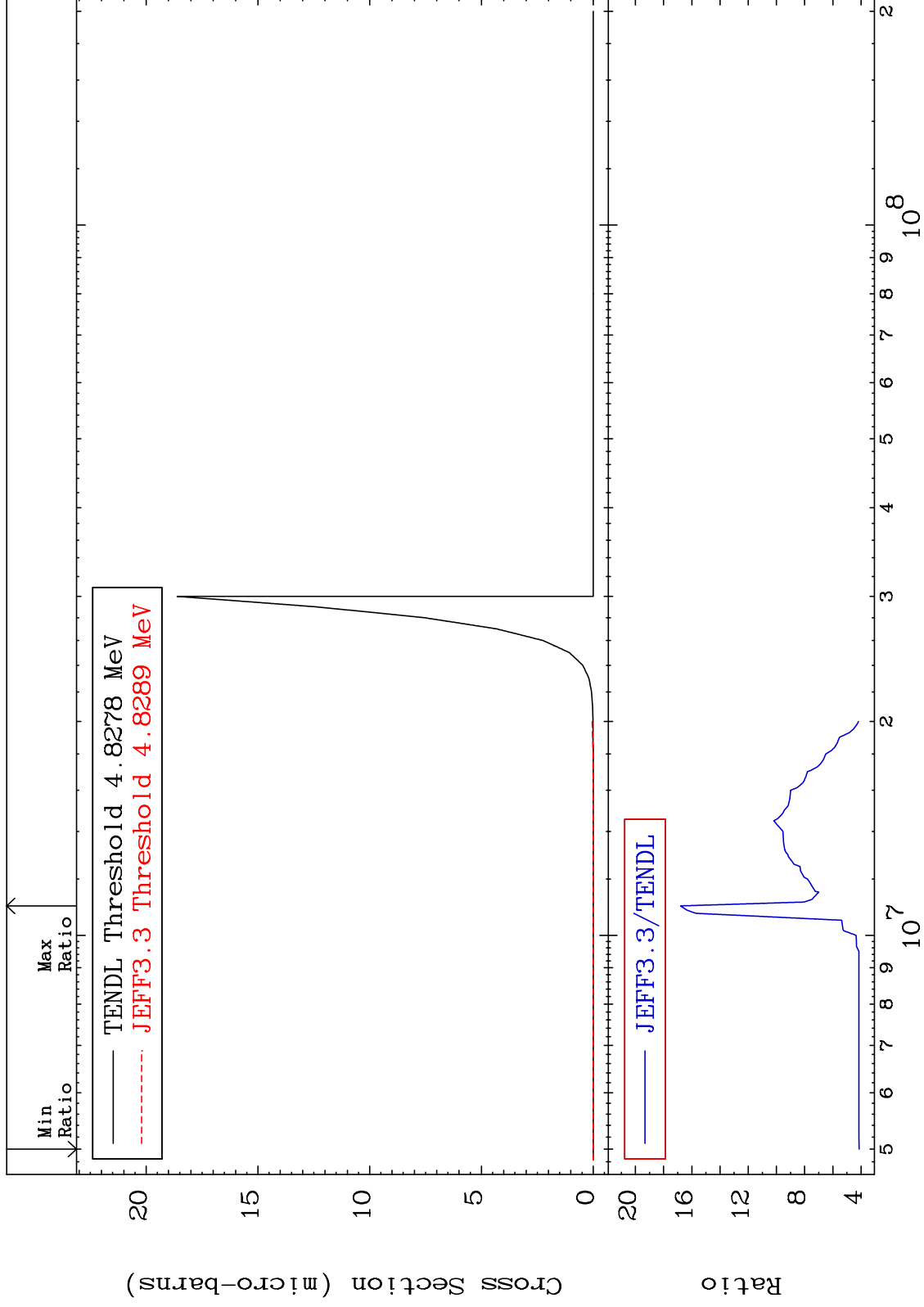
MAT 7225

(n,2p)

72-Hf-174

Cross Section

313.2 To 1579. %



52

Incident Energy (eV)

72-Hf-174

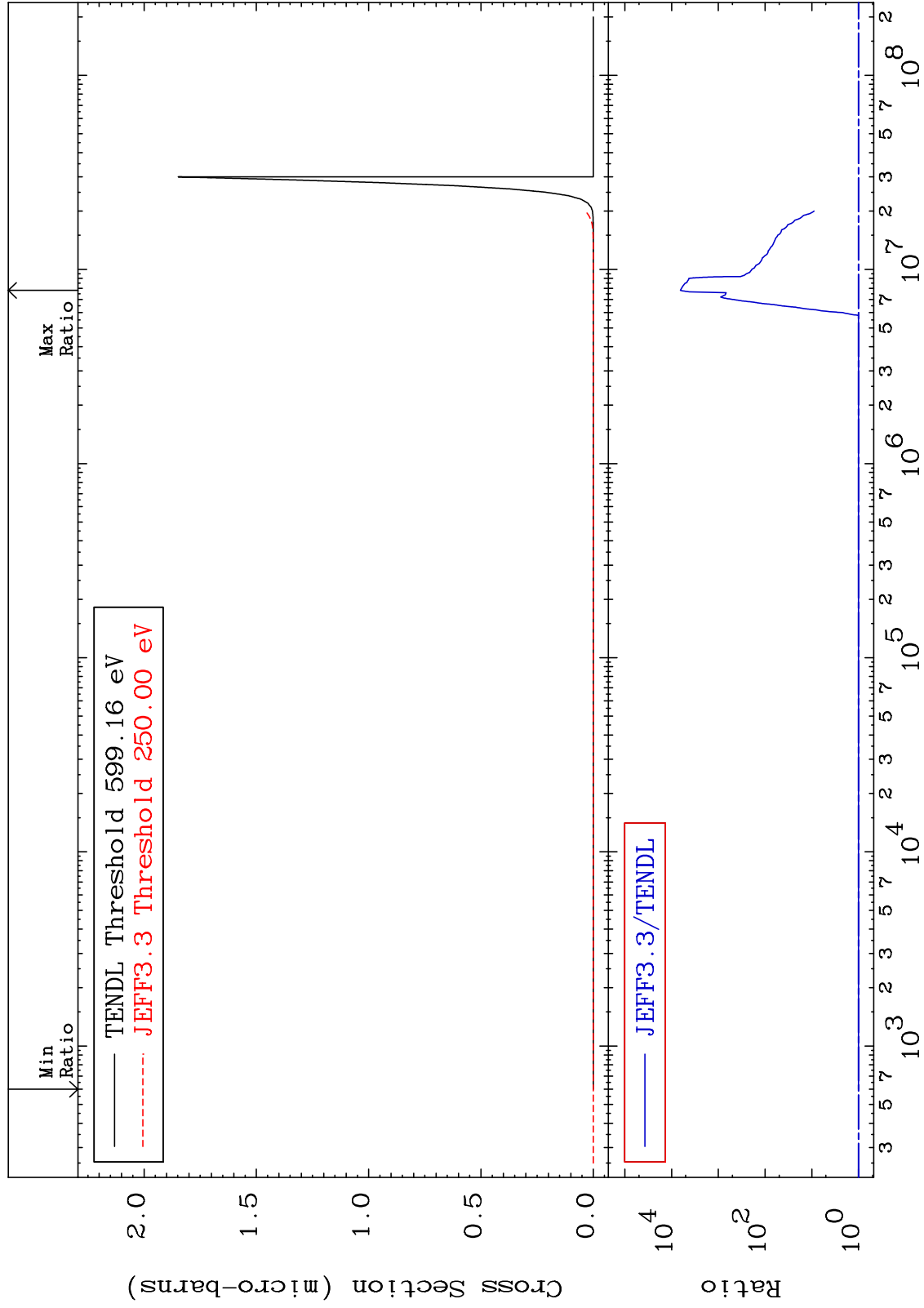
MAT 7225

(n,p) α

Cross Section

72-Hf-174

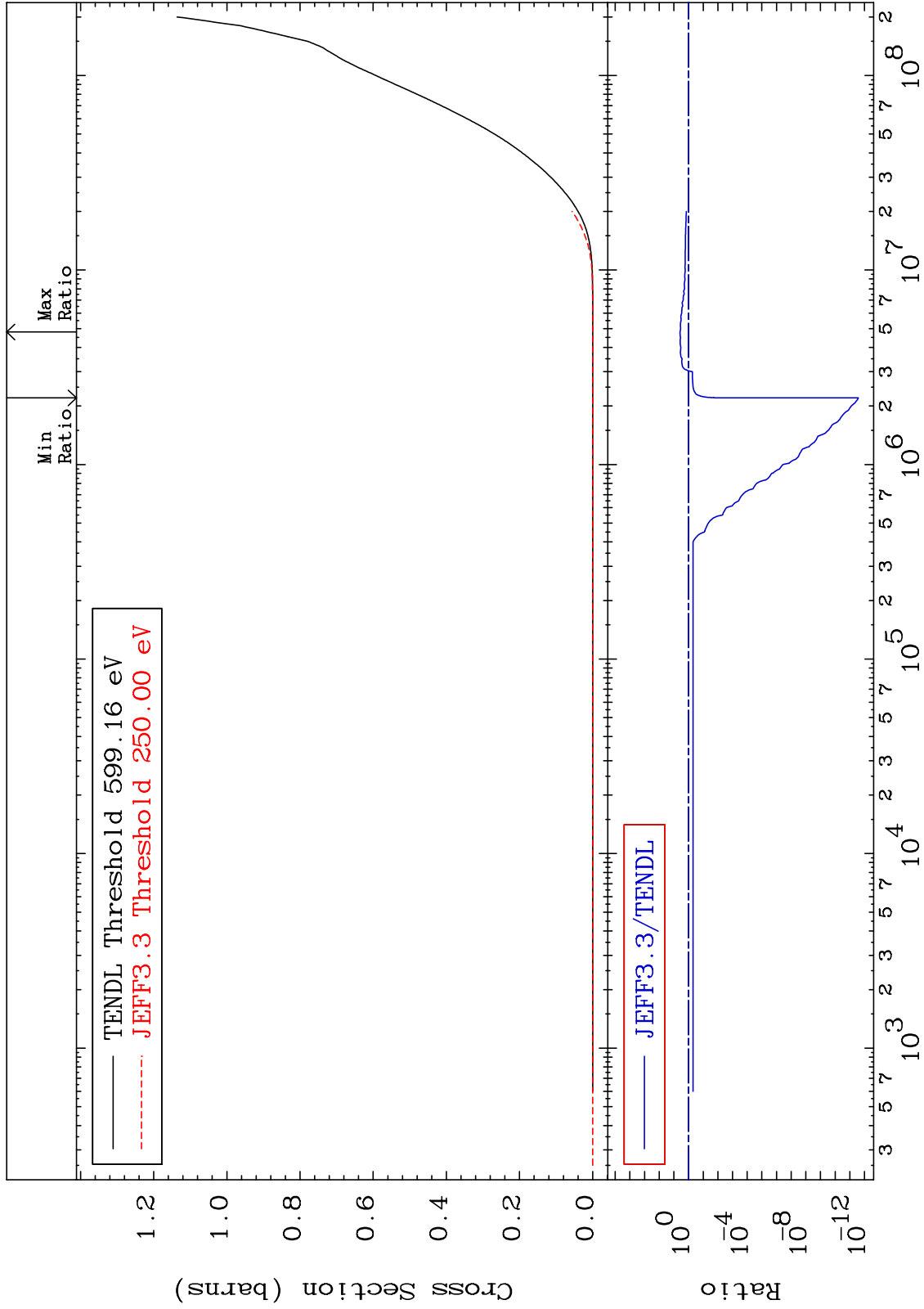
0.000 To 9999. %



MAT 7225

Hydrogen Production
Cross Section

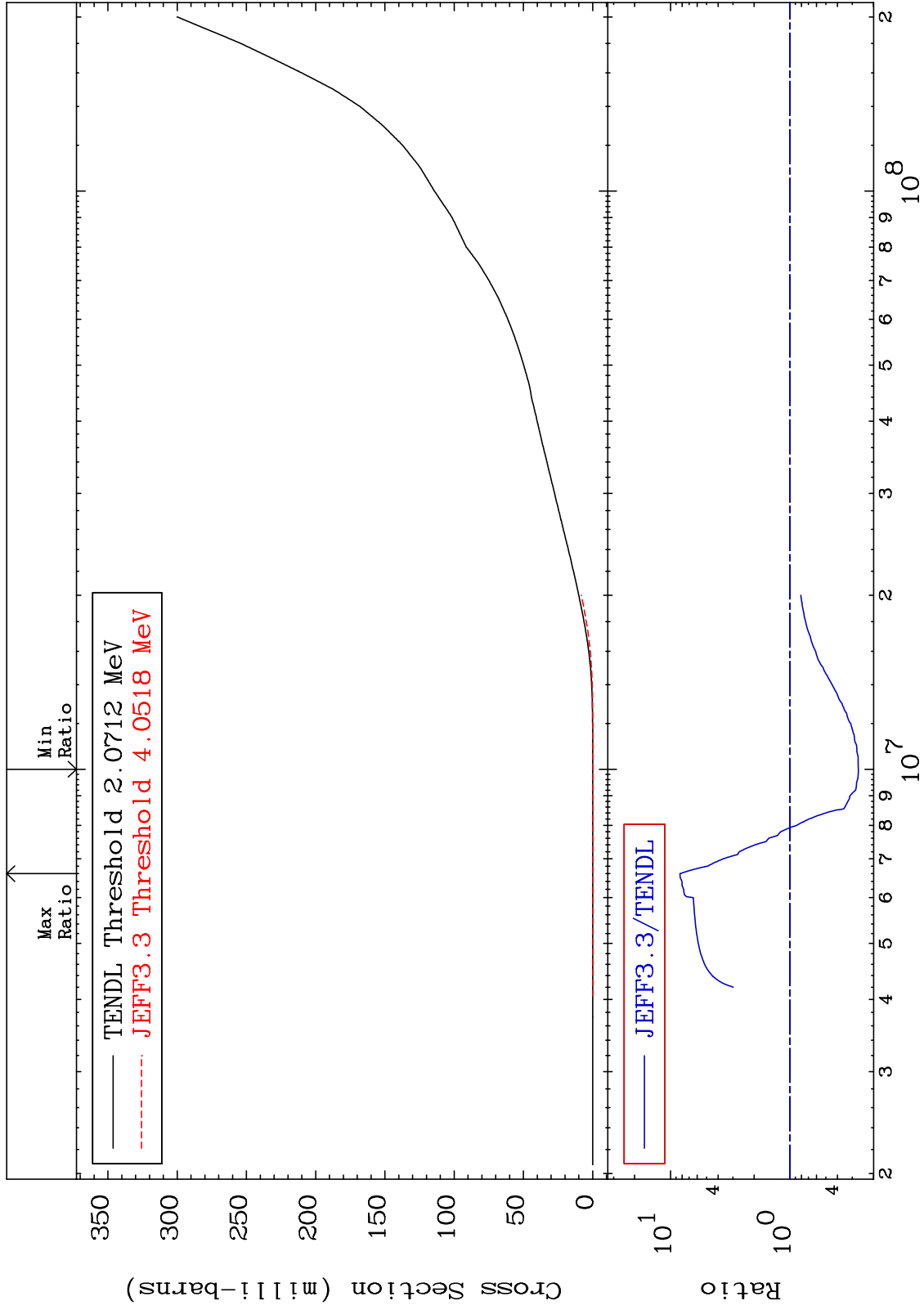
72-Hf-174
-100.0 To 280.5 %



MAT 7225

Deuterium Production
Cross Section

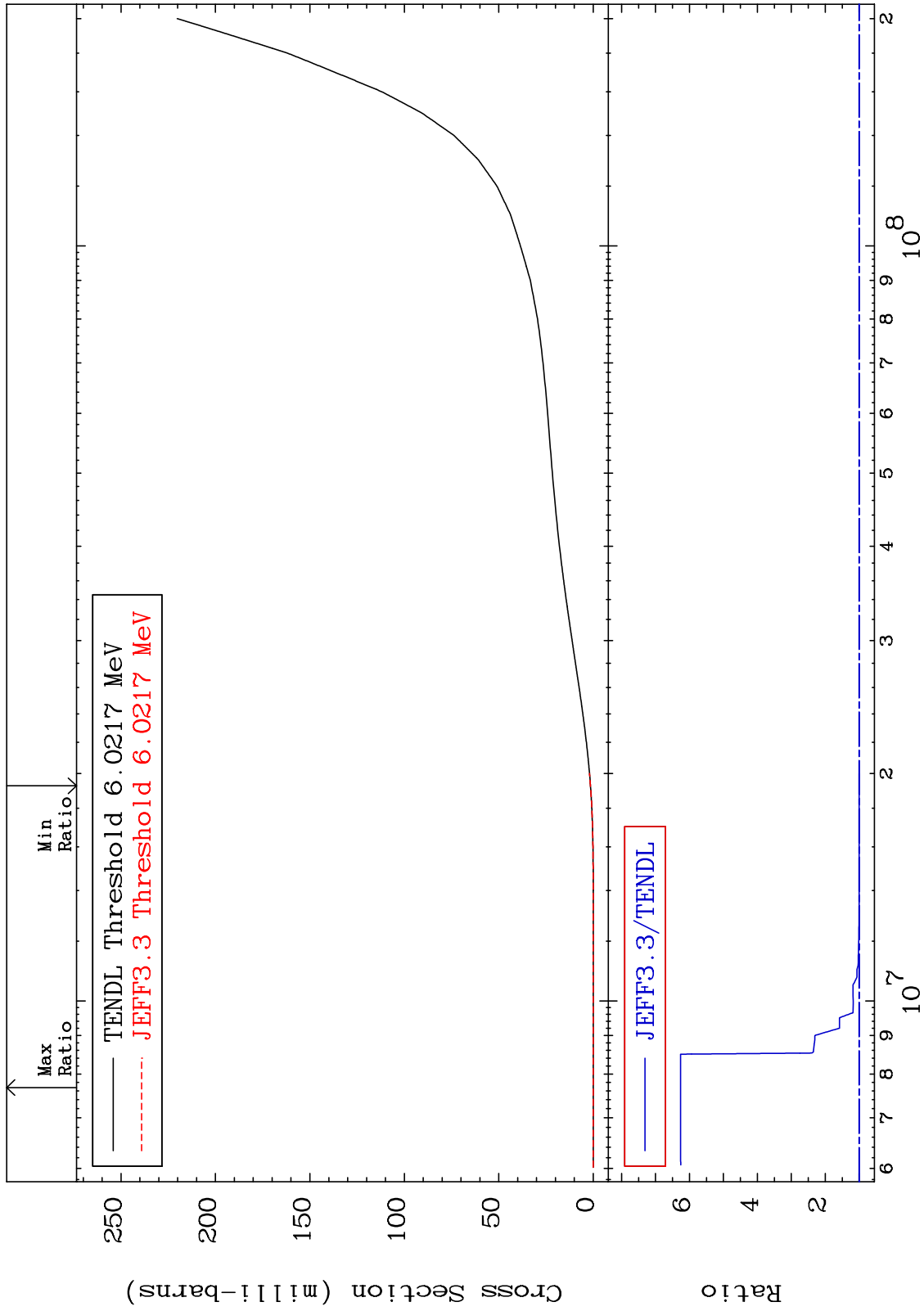
⁷²Hf-174
-73.31 To 733.9 %



MAT 7225

Tritium Production
Cross Section

72-Hf-174
0.102 To 526.1 %



56

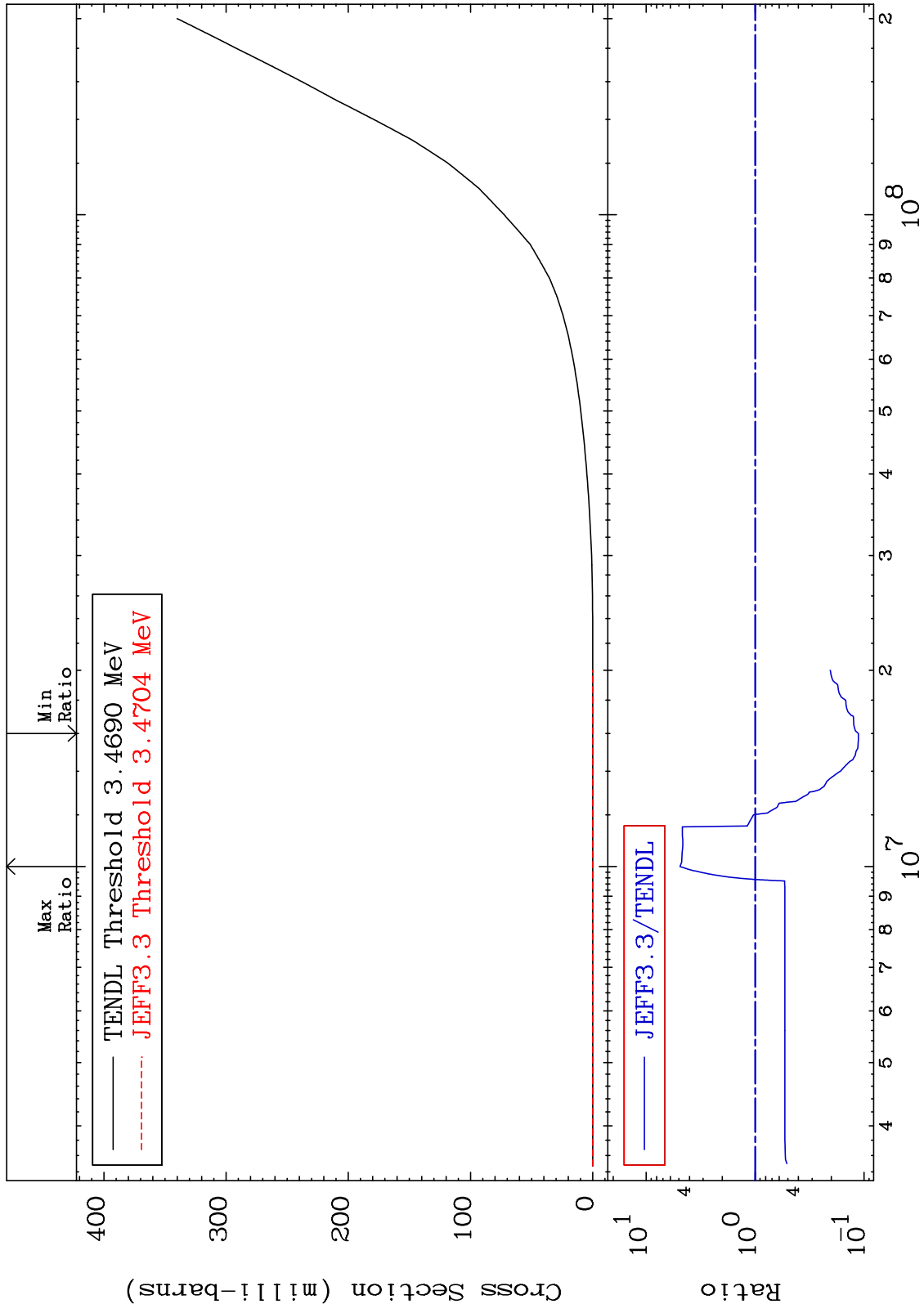
Incident Energy (eV)

72-Hf-174

MAT 7225

He-3 Production
Cross Section

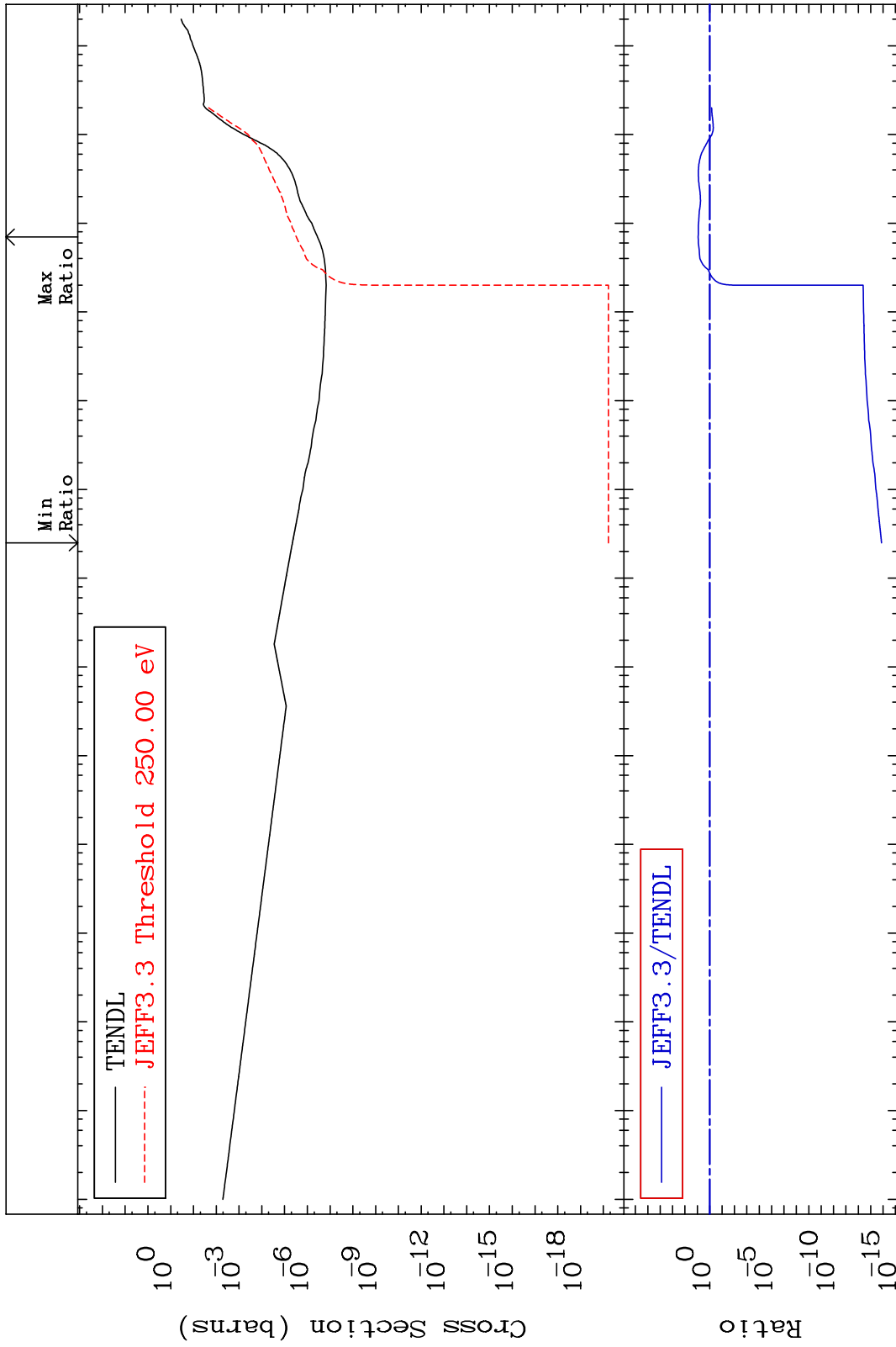
⁷²Hf-174
-88.72 To 388.4 %



MAT 7225

He-4 Production
Cross Section

72-Hf-174
-100.0 To 754.8 %



58

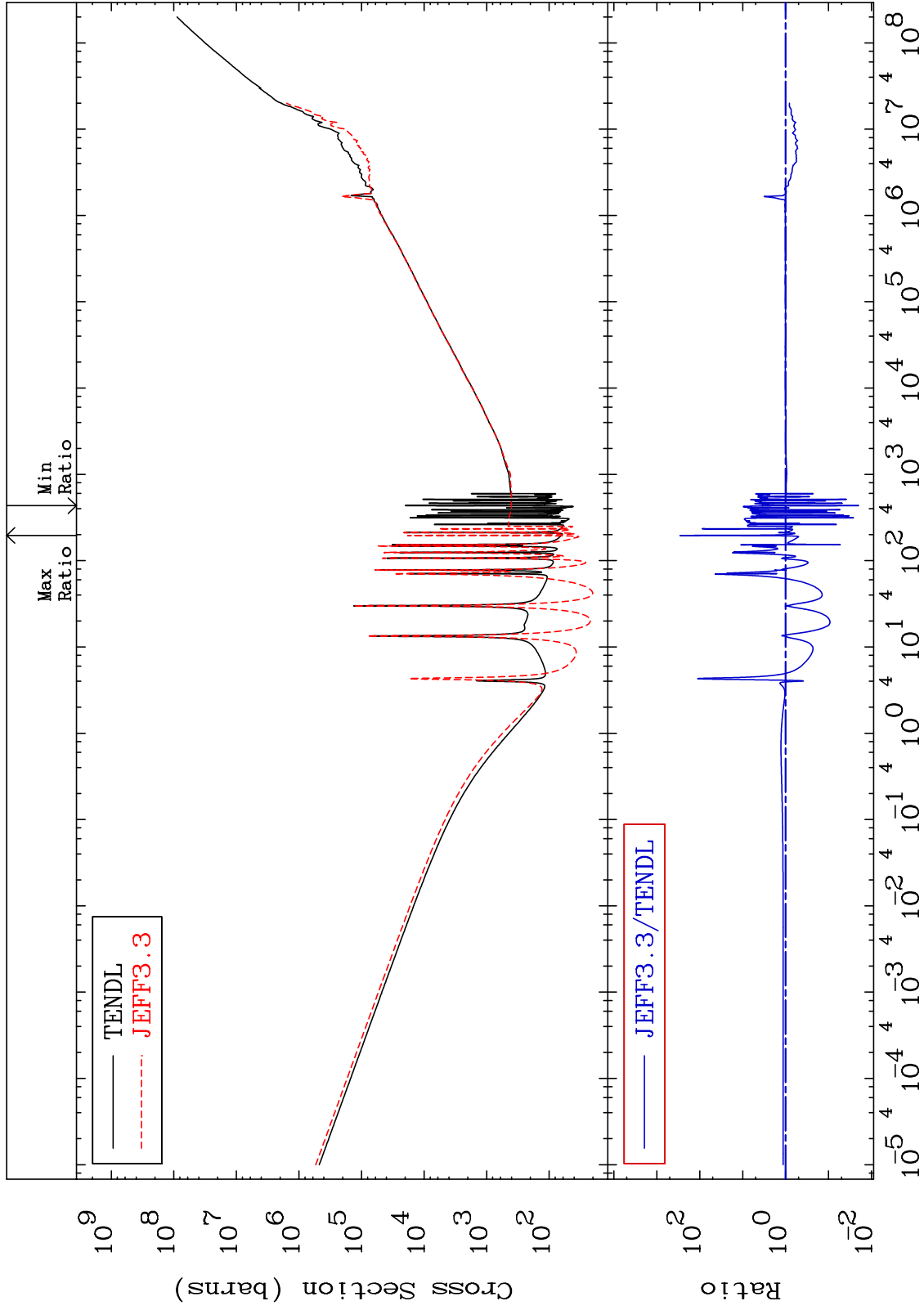
Incident Energy (eV)

72-Hf-174

MAT 7225

Kerma total (eV-barns)
Cross Section

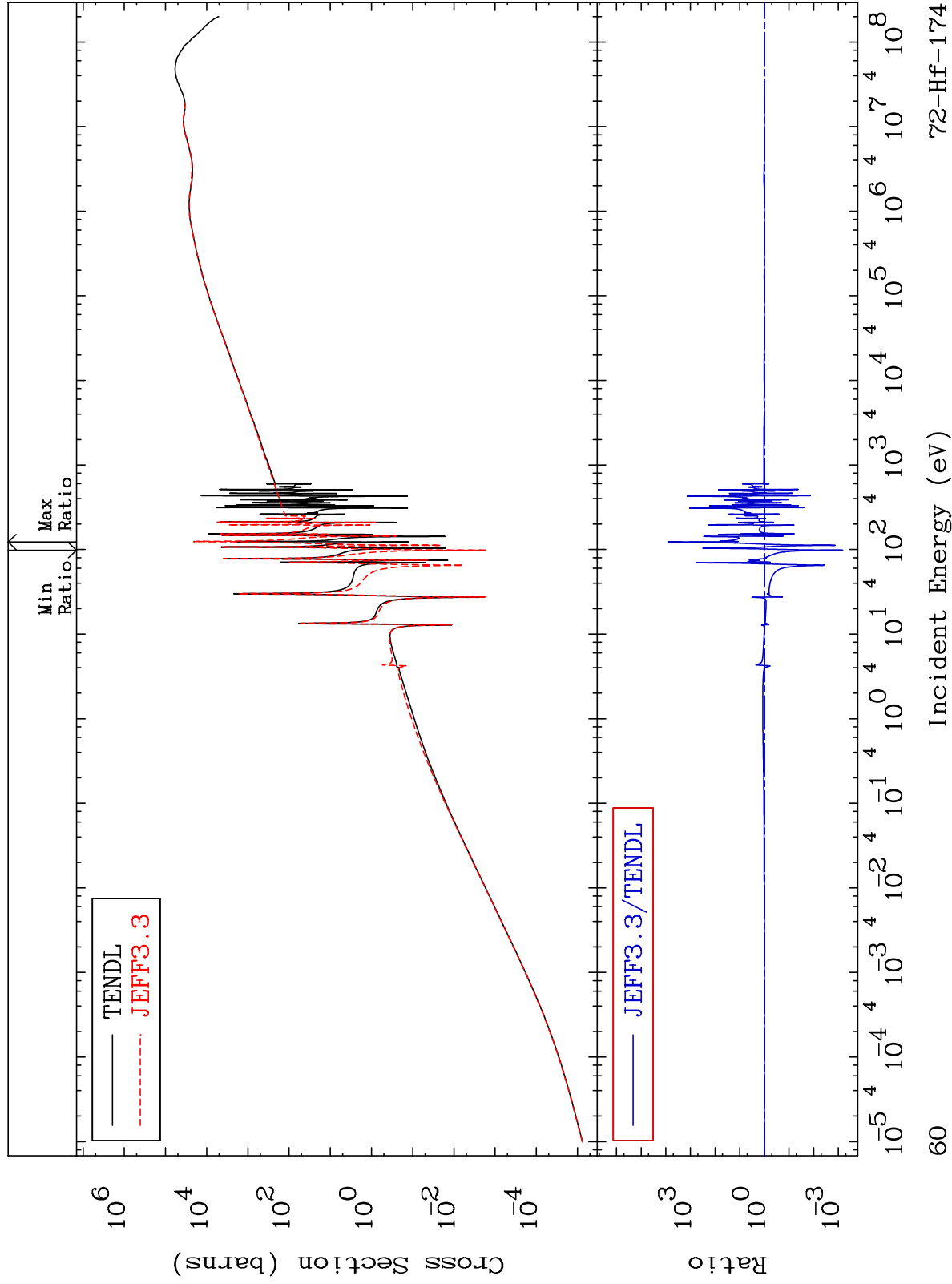
72-Hf-174
-97.98 To 9999. %



MAT 7225

Kerma elastic
Cross Section

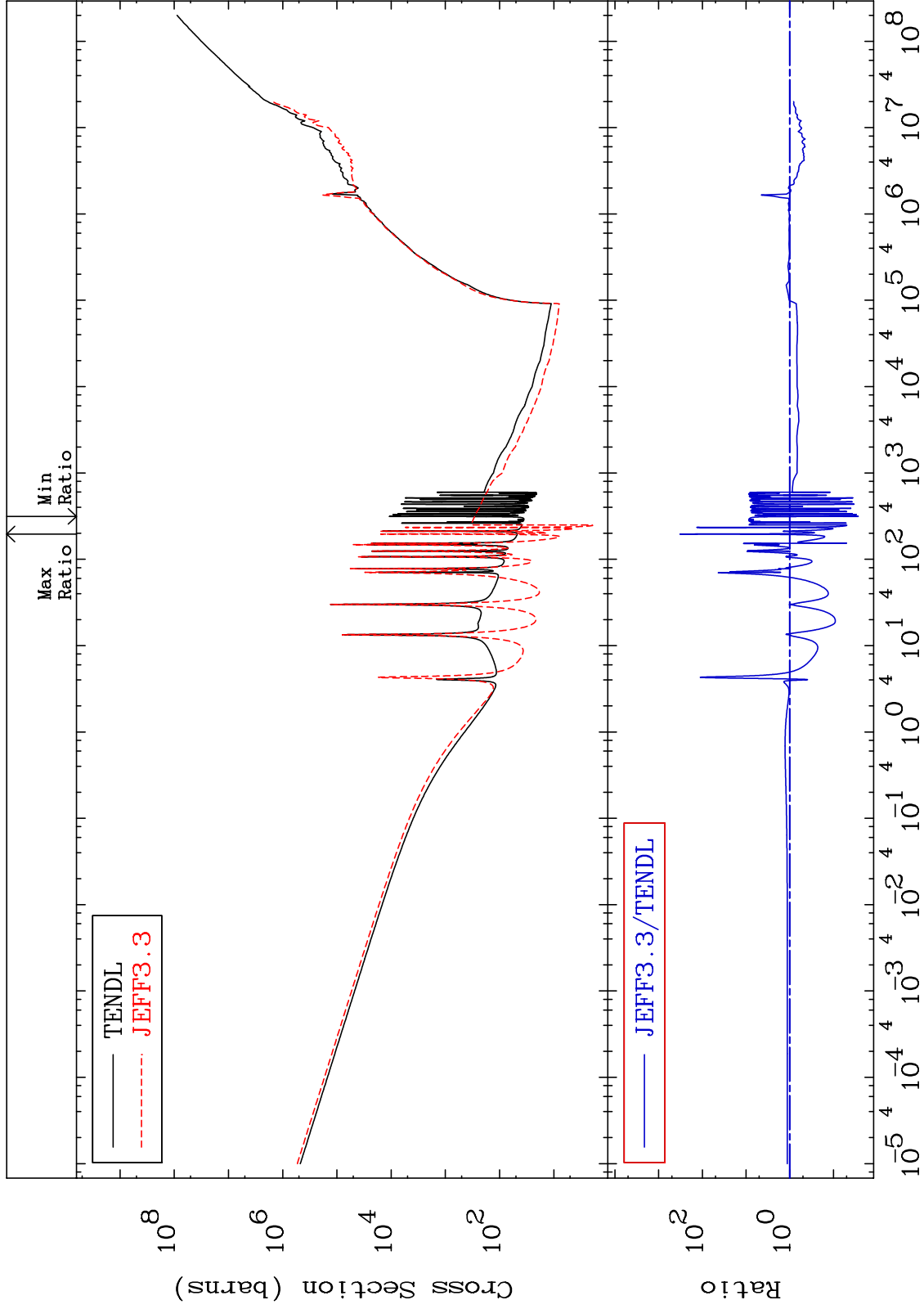
⁷²Hf-174
-99.93 To 9999. %



MAT 7225

Kerma non-elastic (all but mt2)
Cross Section

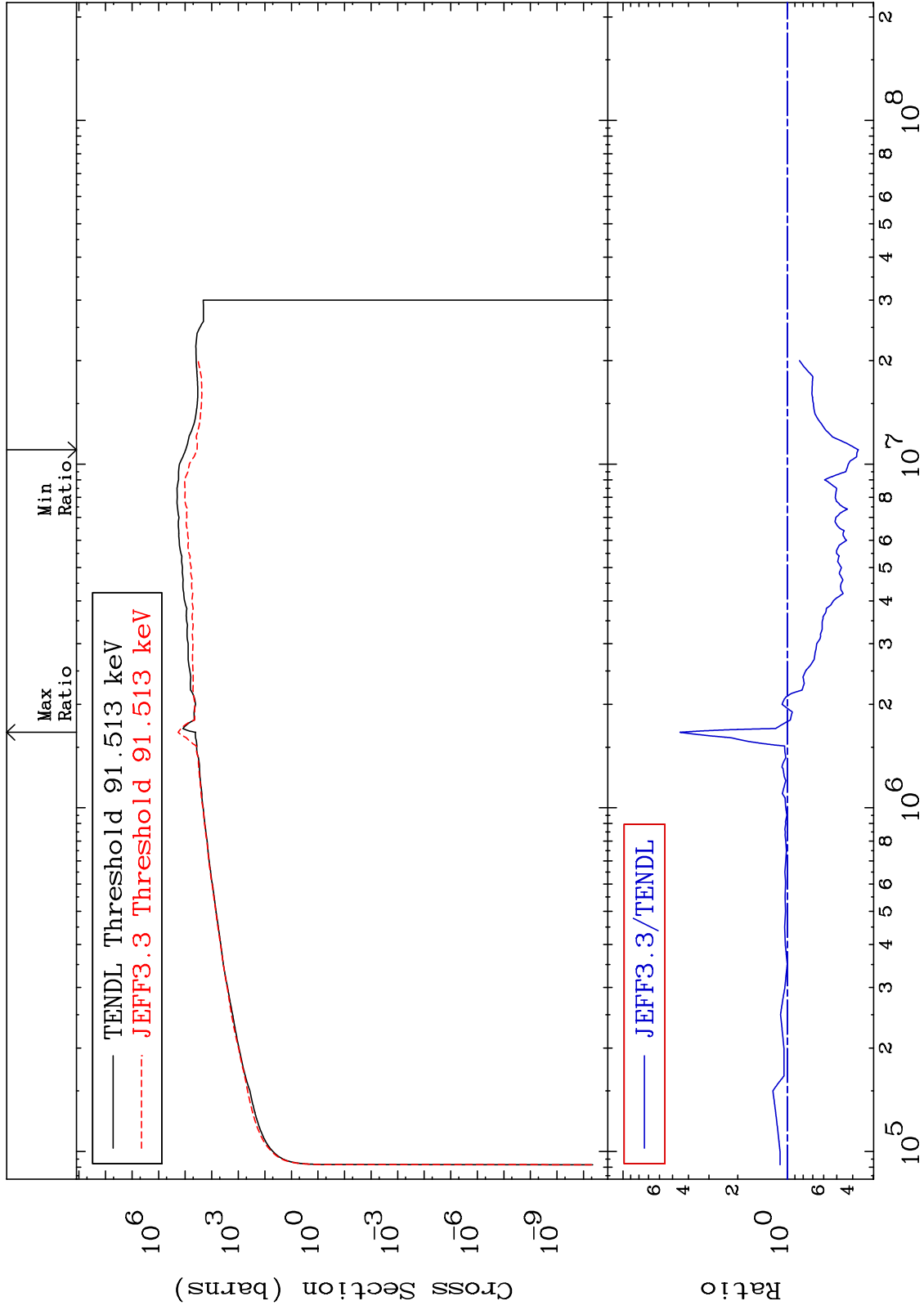
72-Hf-174
-97.32 To 9999. %



MAT 7225

Kerma inelastic (mt51-91)
Cross Section

72-Hf-174
-63.12 To 350.0 %



62

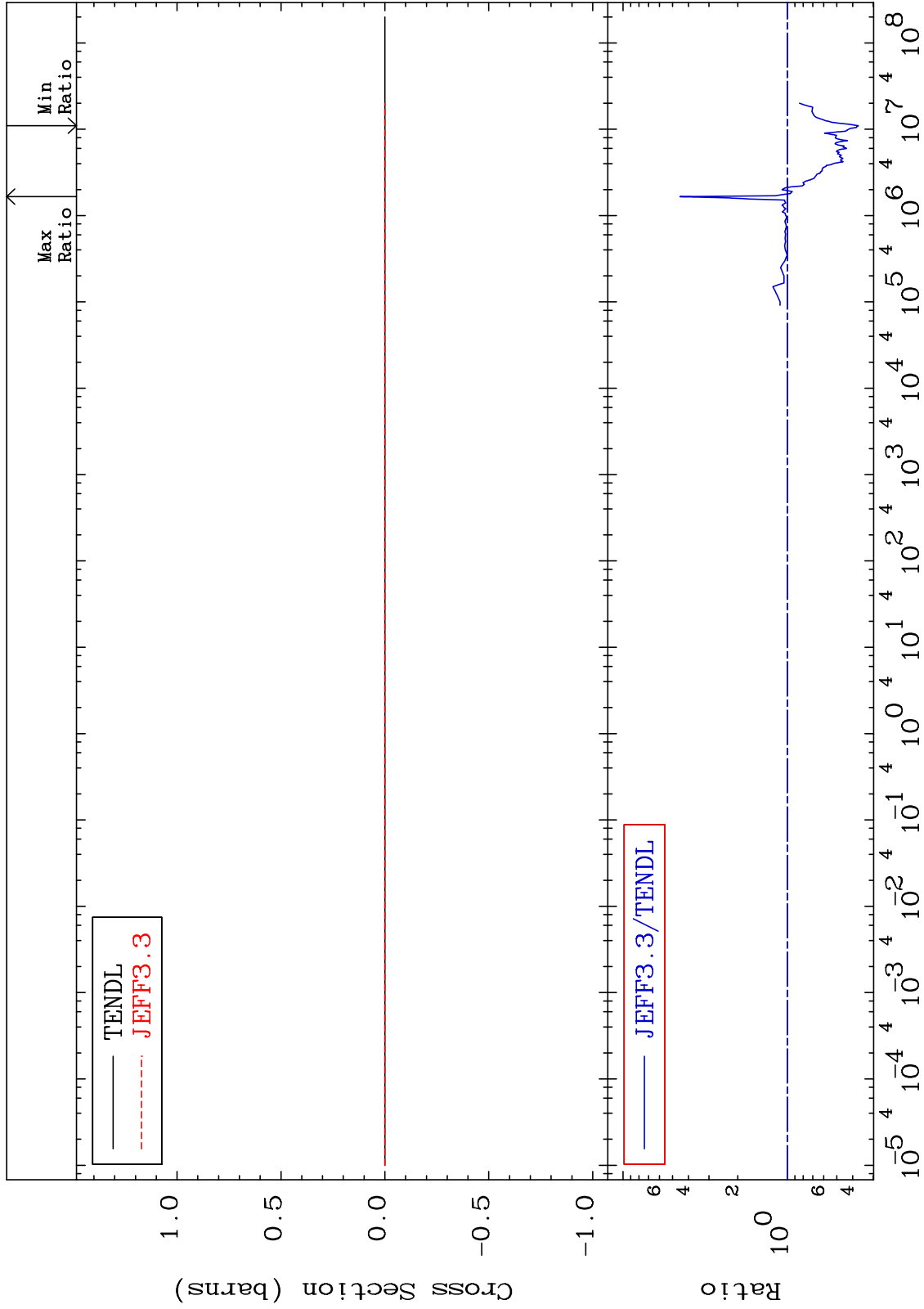
Incident Energy (eV)

72-Hf-174

MAT 7225

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

72-Hf-174
-63.12 To 350.0 %



63

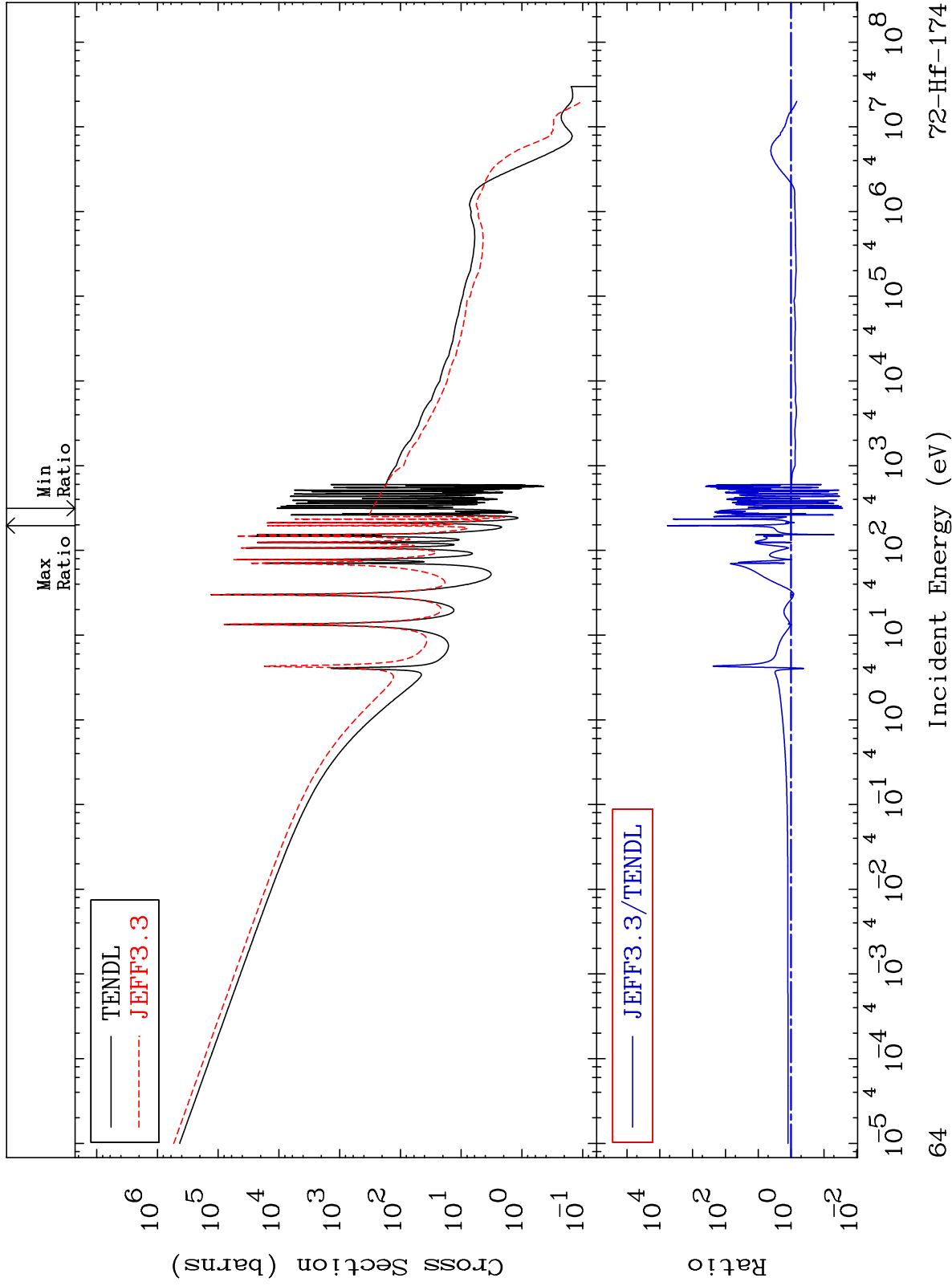
Incident Energy (eV)

72-Hf-174

MAT 7225

Kerma capture (mt102)
Cross Section

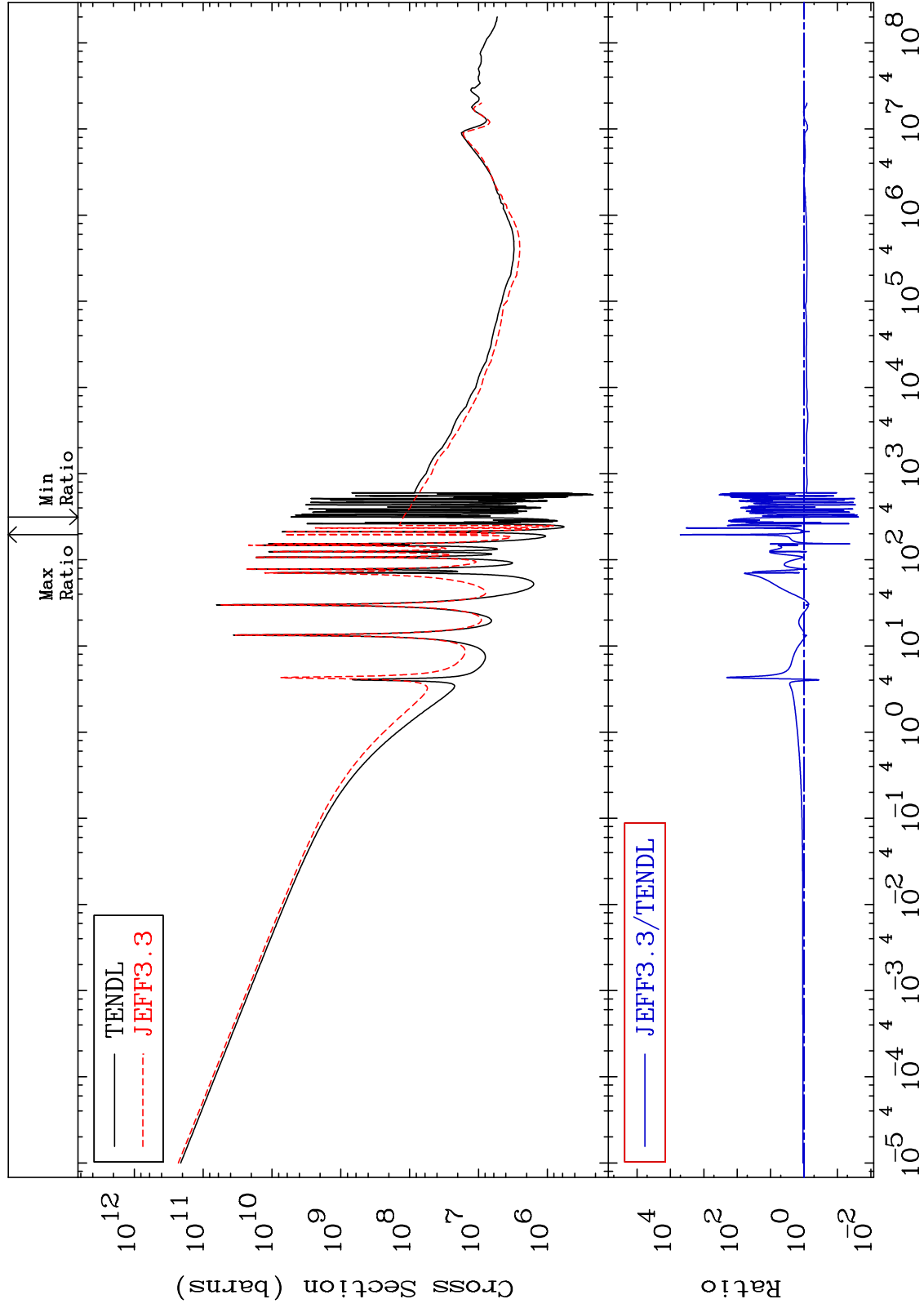
72-Hf-174
-97.31 To 9999. %



MAT 7225

Total photon (eV-barns)
Cross Section

72-Hf-174
-97.67 To 9999. %



65

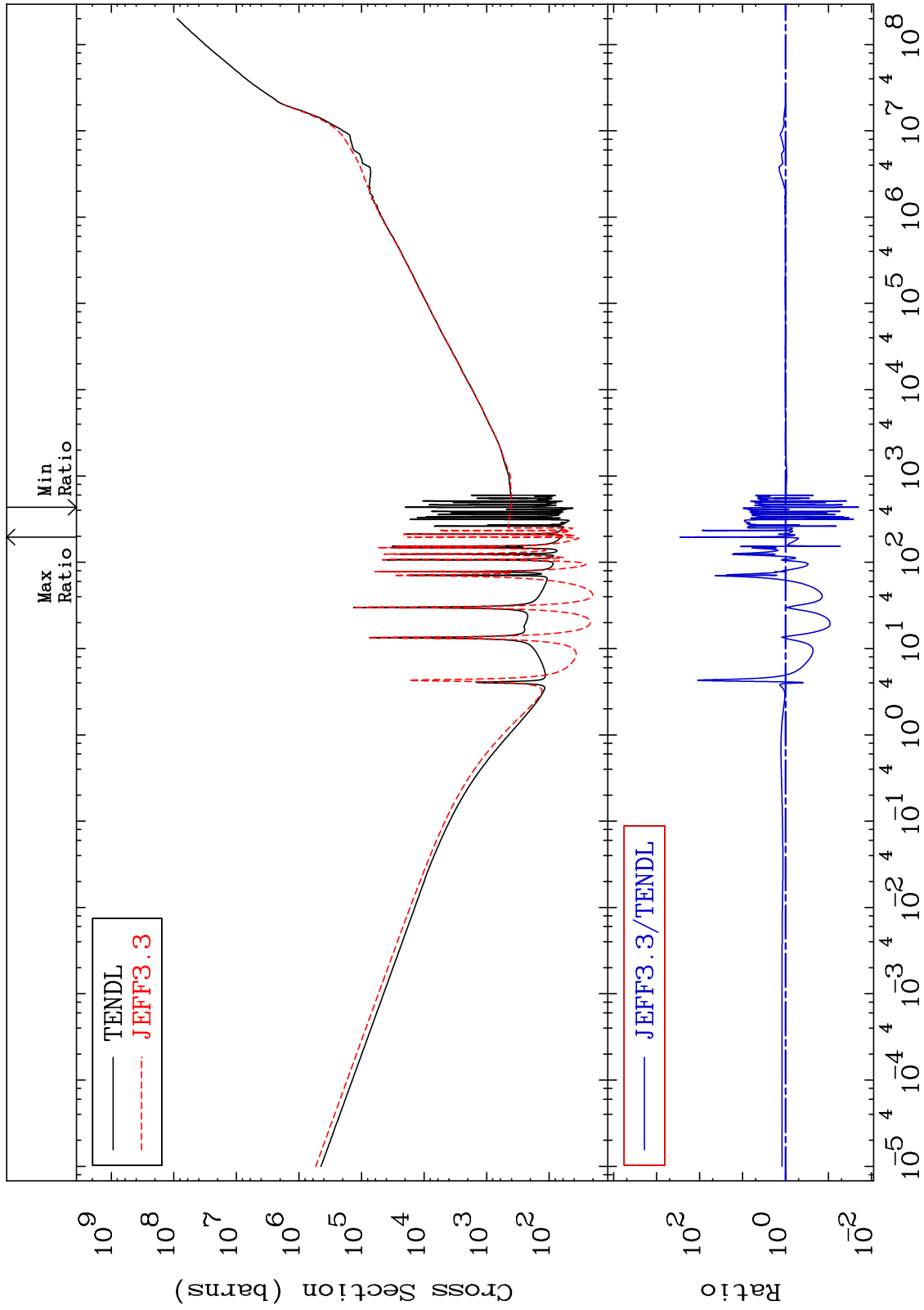
Incident Energy (eV)

72-Hf-174

MAT 7225

Total kinematic kerma (high limit)
Cross Section

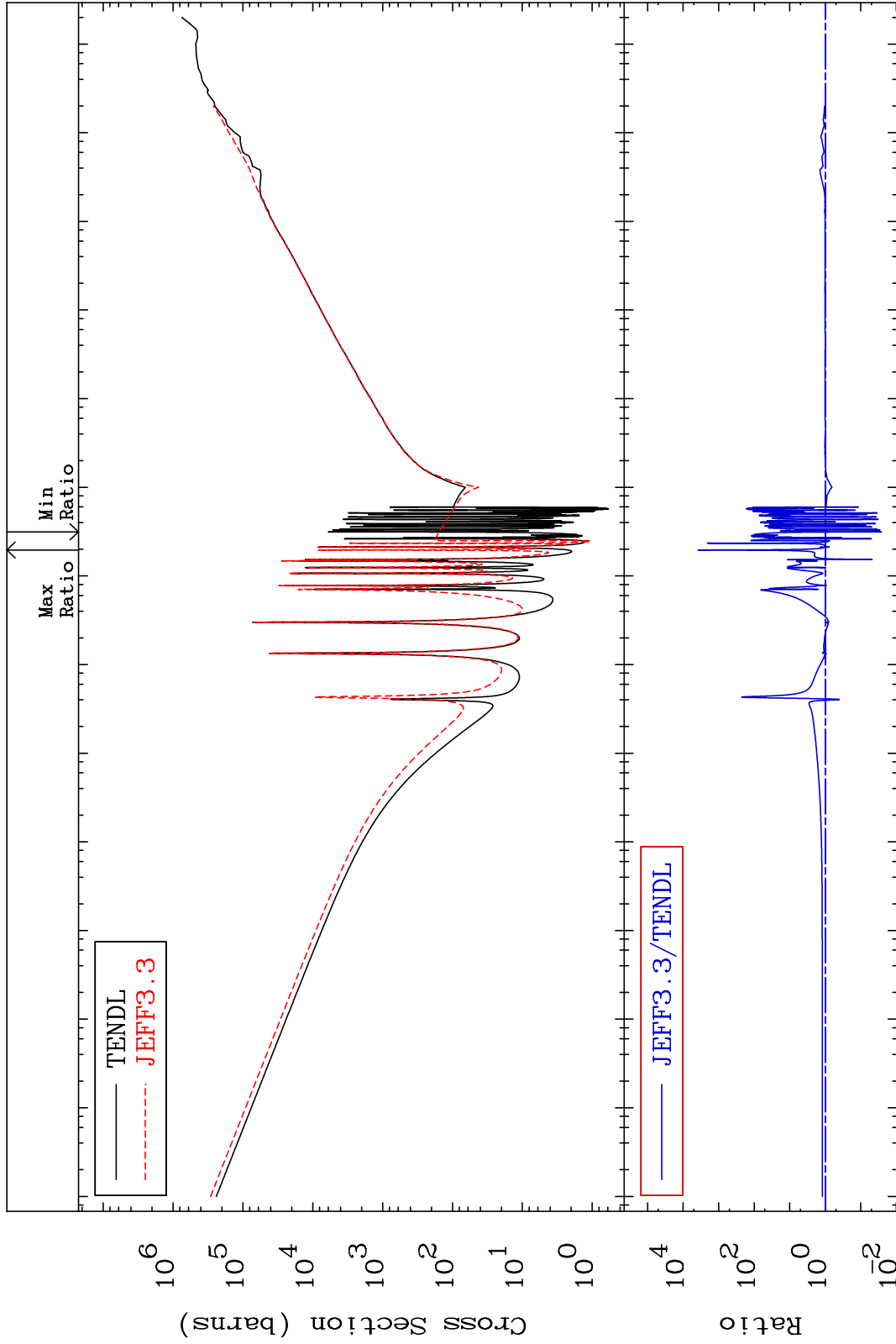
72-Hf-174
-97.98 To 9999. %



MAT 7225

Dpa total (eV-barns)
Cross Section

72-Hf-174
-97.40 To 9999. %



67

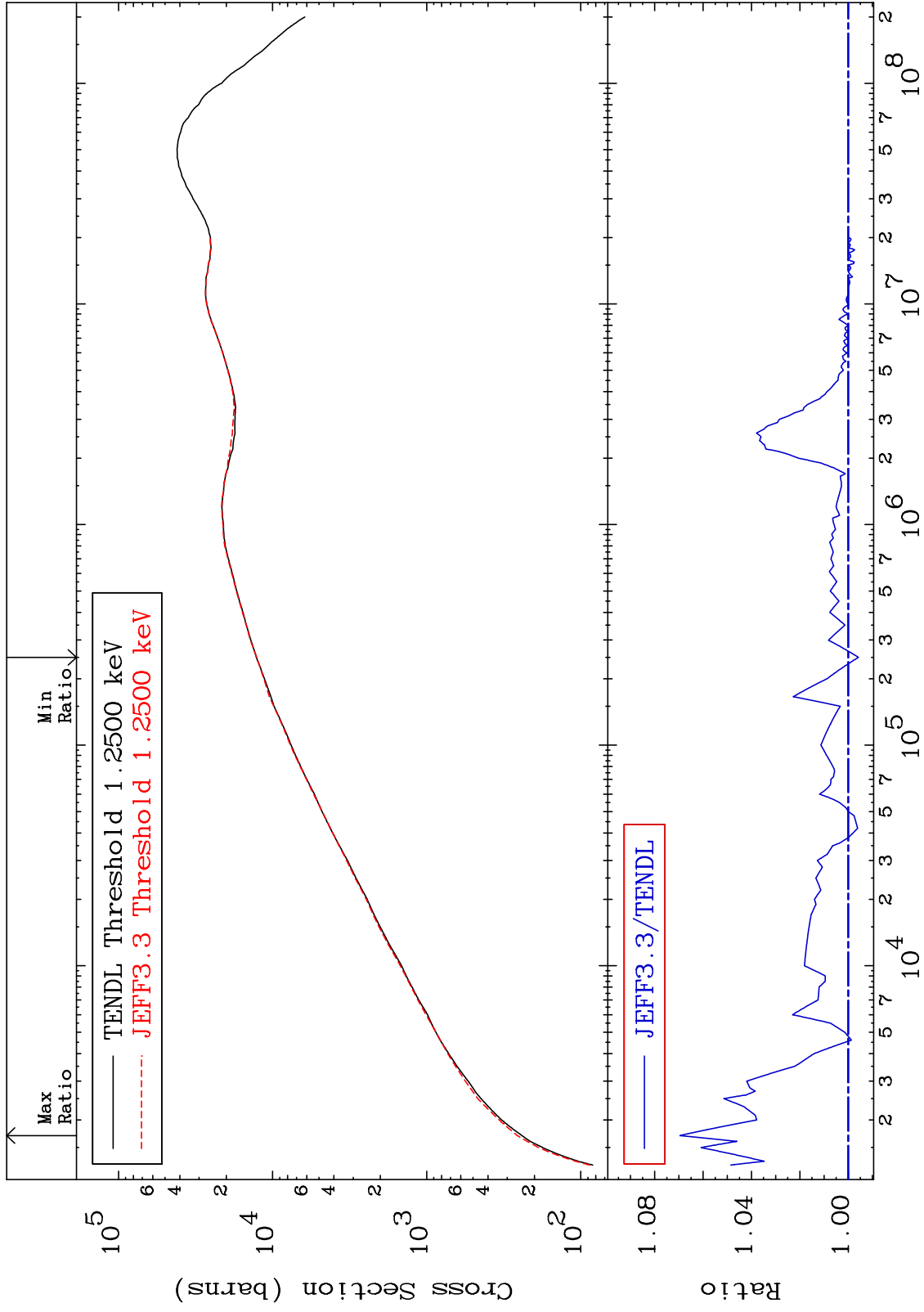
Incident Energy (eV)

72-Hf-174

MAT 7225

Dpa elastic (mt2)
Cross Section

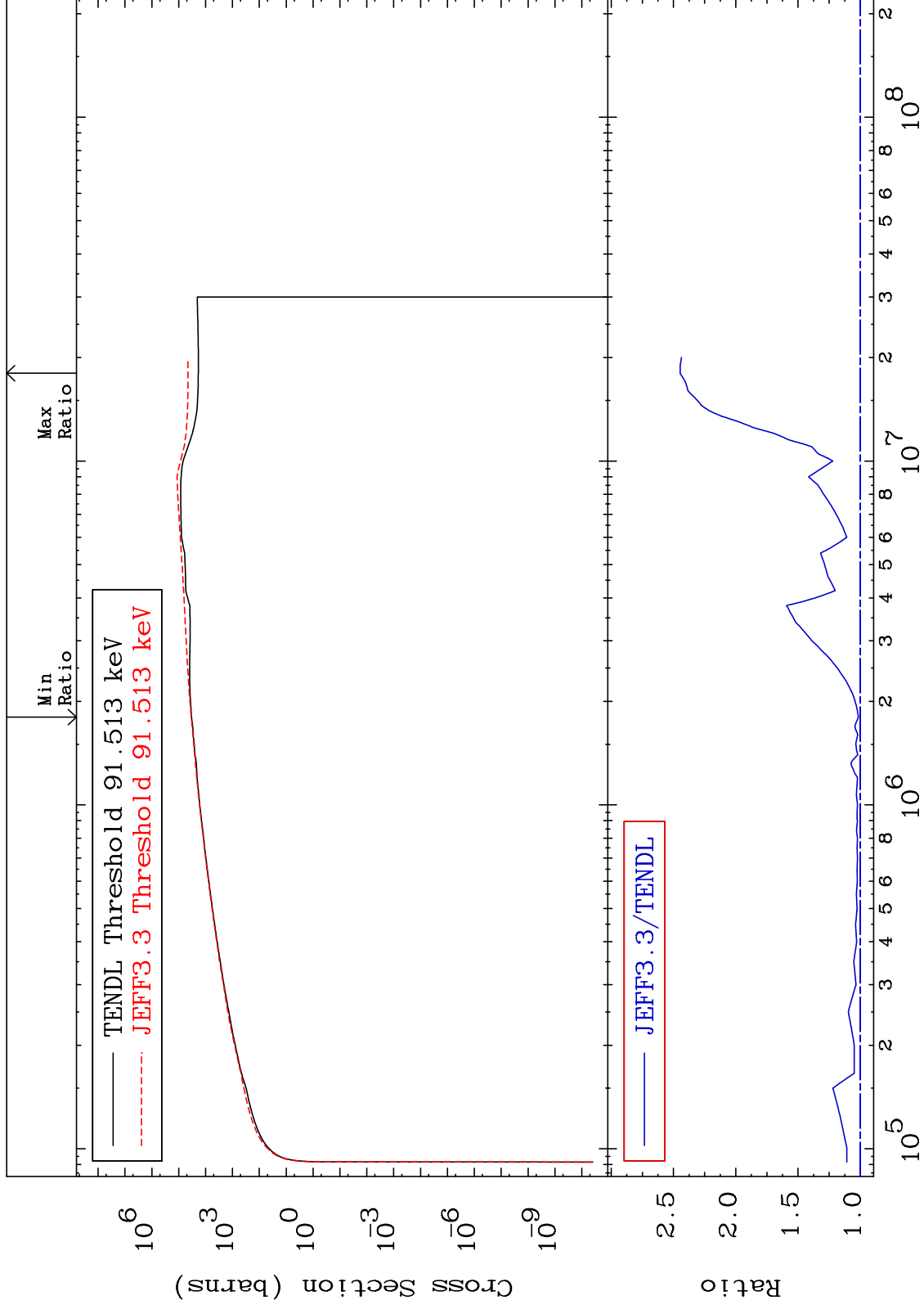
72-Hf-174
-0.420 To 6.955 %



MAT 7225

Dpa inelastic (mt51-91)
Cross Section

72-Hf-174
1.516 To 144.8 %



69

Incident Energy (eV)

72-Hf-174

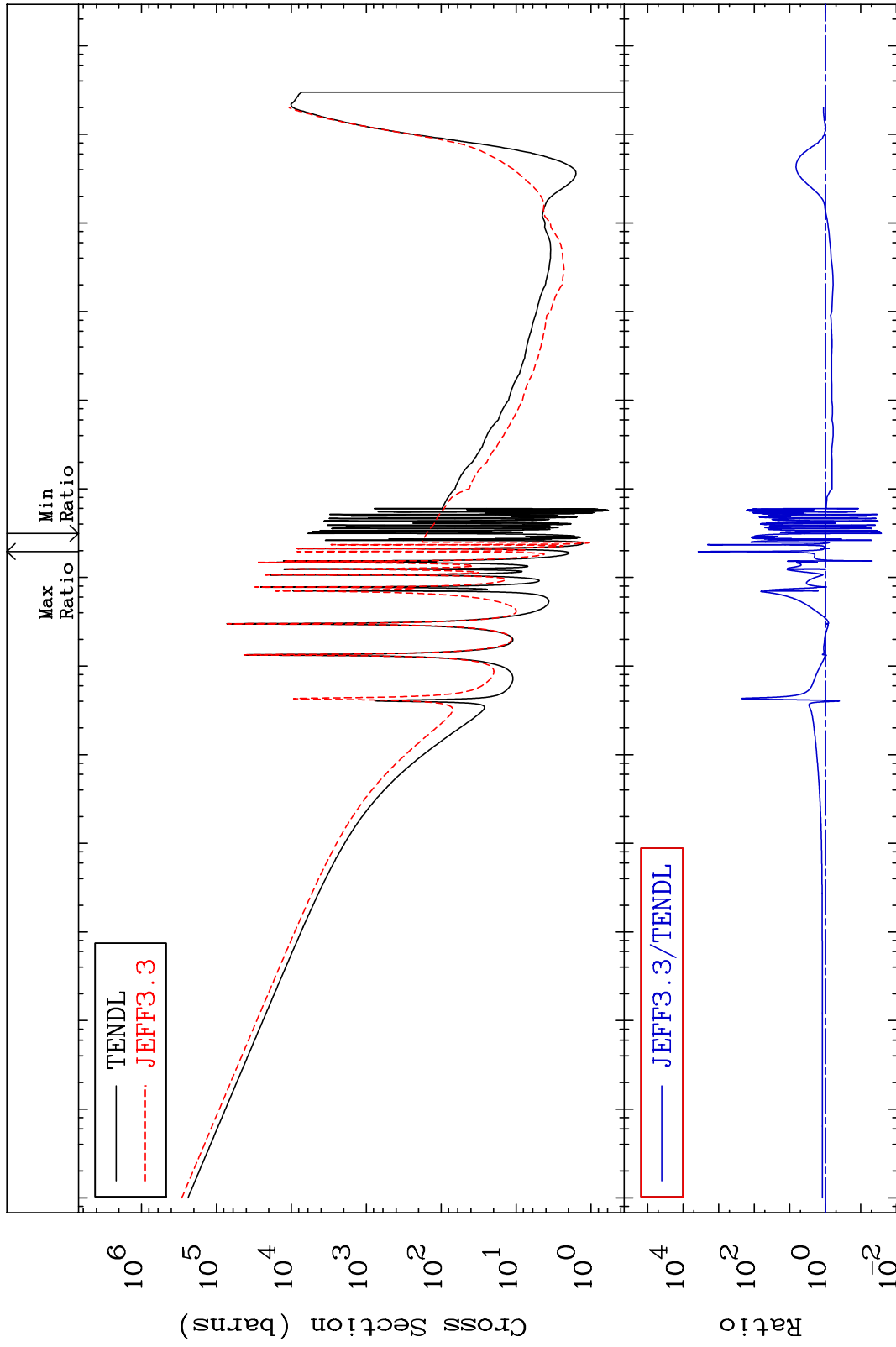
MAT 7225

Dpa disappearance (mt102 -120)

72-Hf-174

-97.40 To 9999. %

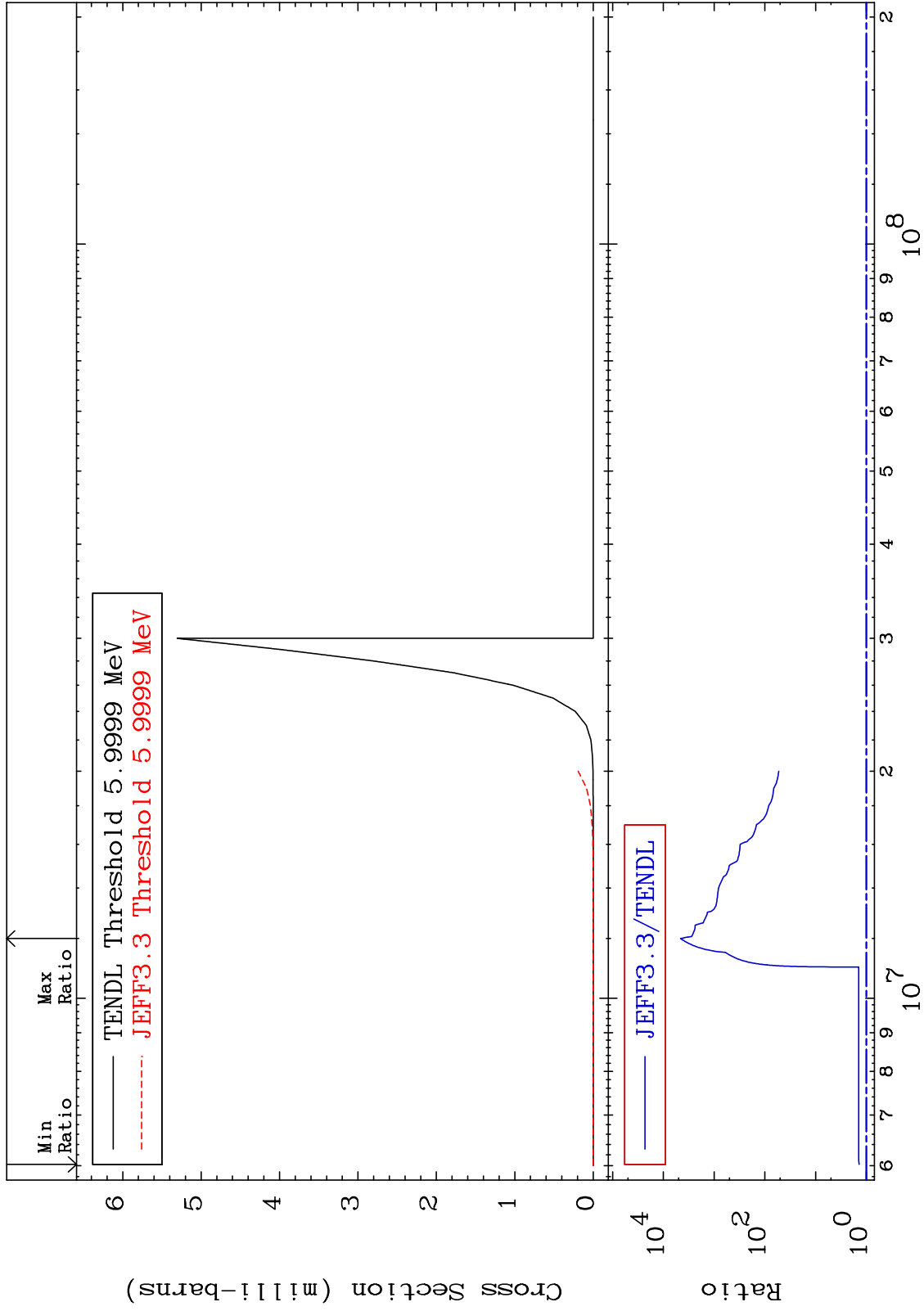
Cross Section



MAT 7225

(n,2n) α :70-Yb-169g
Radionuclide Production Cross Section 38.76 To 9999. %

72-Hf-174



71

Incident Energy (eV)

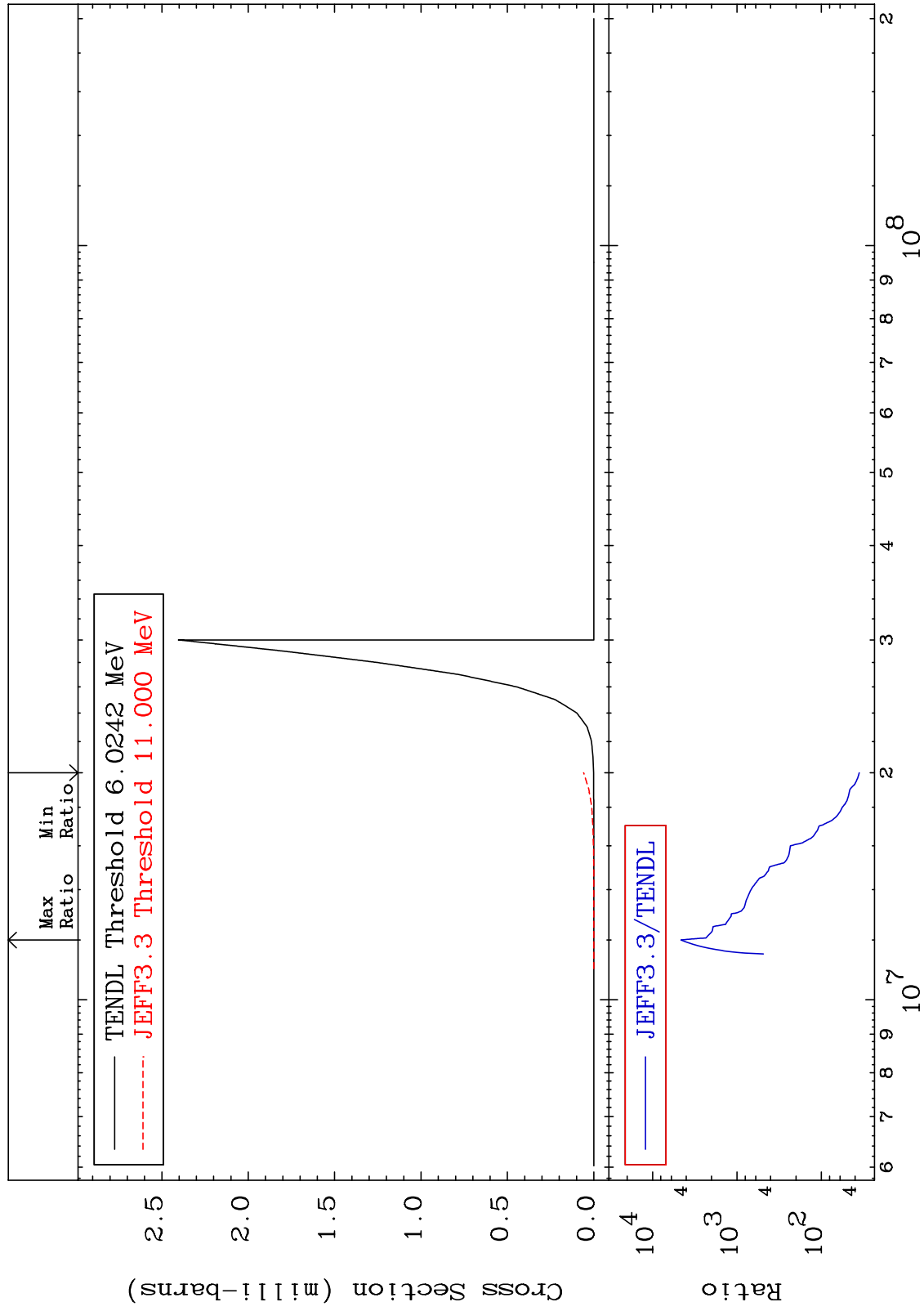
72-Hf-174

MAT 7225

(n,2n) α :70-Yb-169m1

72-Hf-174

Radionuclide Production Cross Section 3459. To 9999. %



72

Incident Energy (eV)

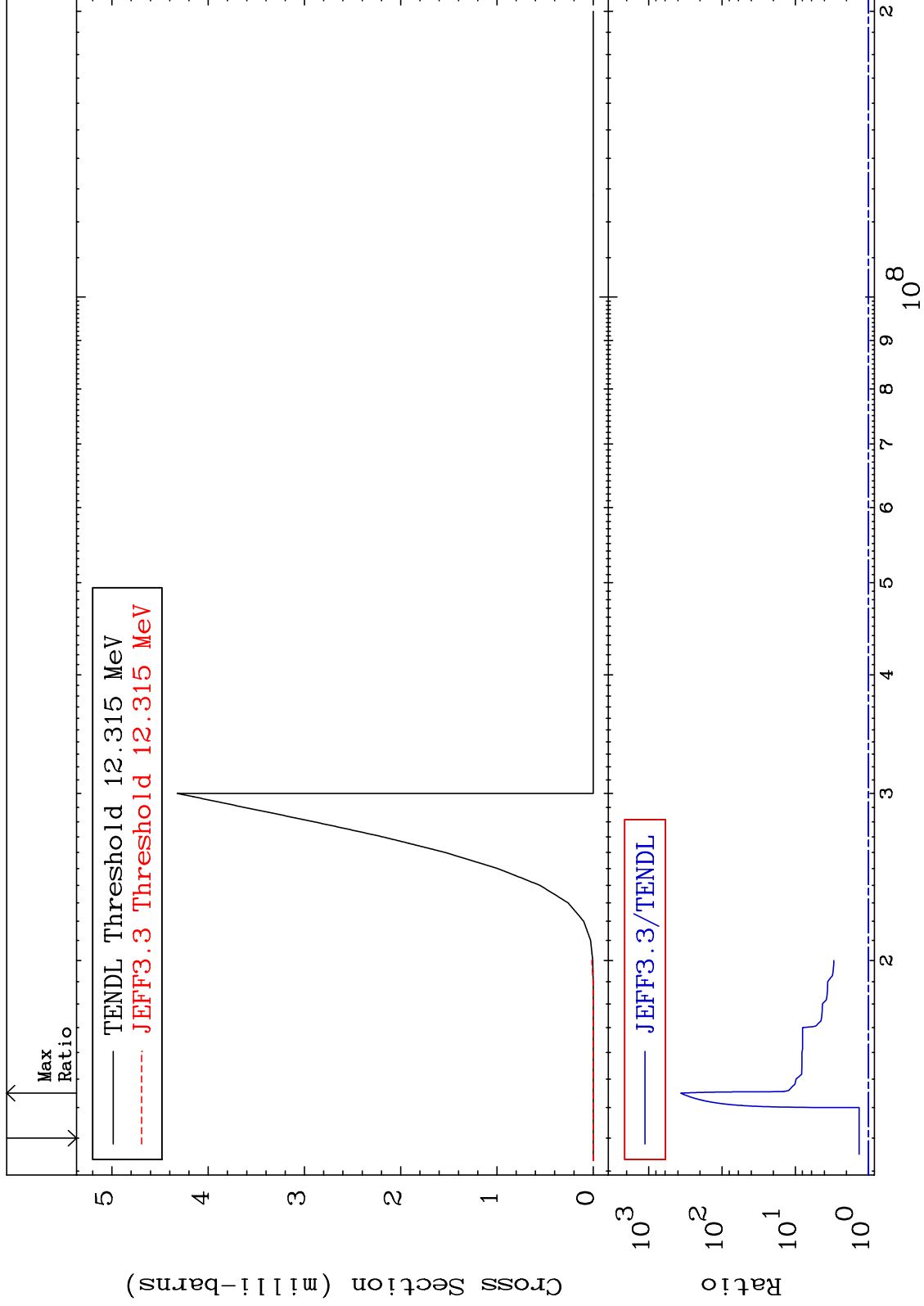
72-Hf-174

MAT 7225

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

72-Hf-174

Radionuclide Production Cross Section 34.49 To 9999. %



73

Incident Energy (eV)

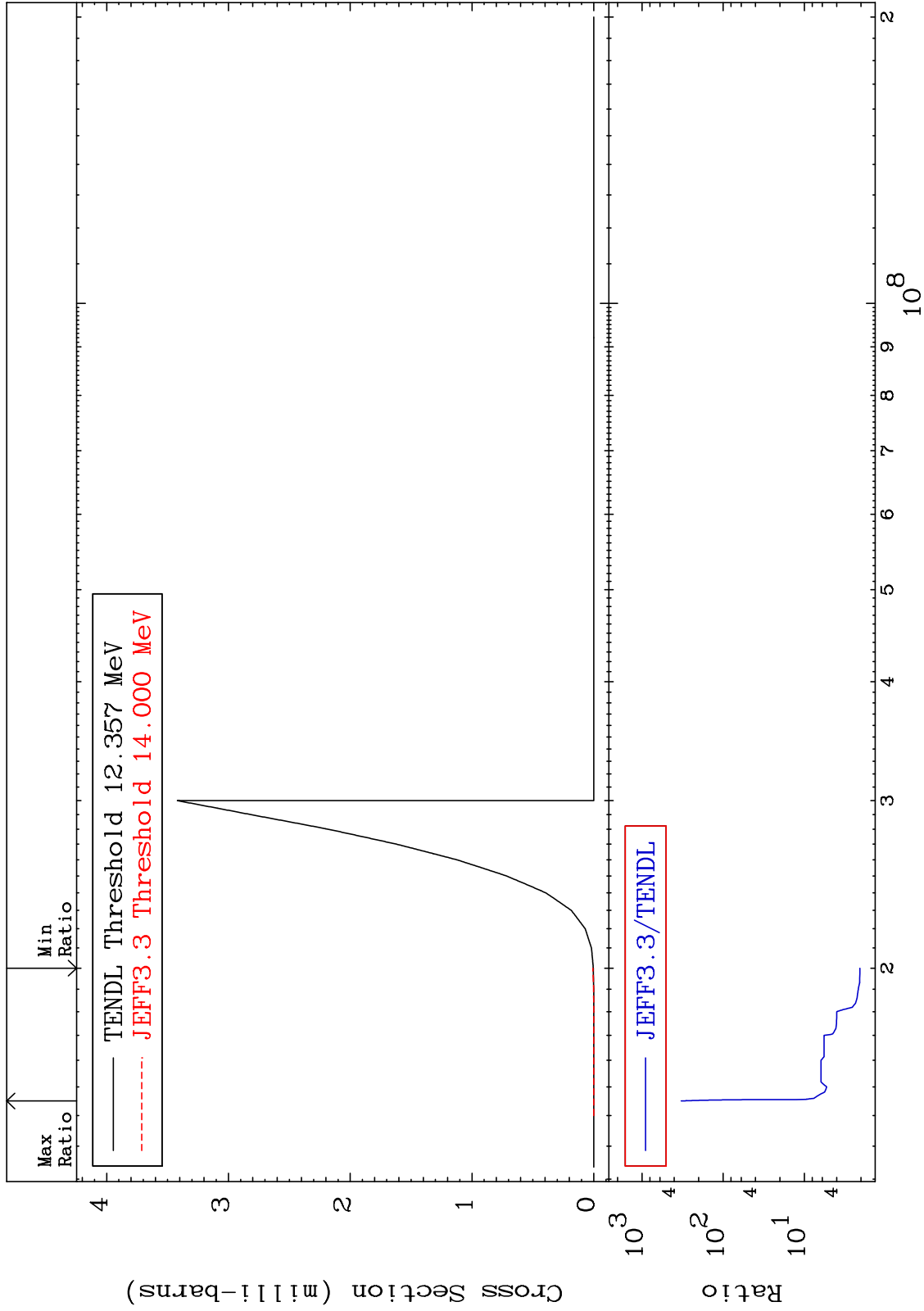
72-Hf-174

MAT 7225

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

72-Hf-174

Radionuclide Production Cross Section 106.6 To 9999. %

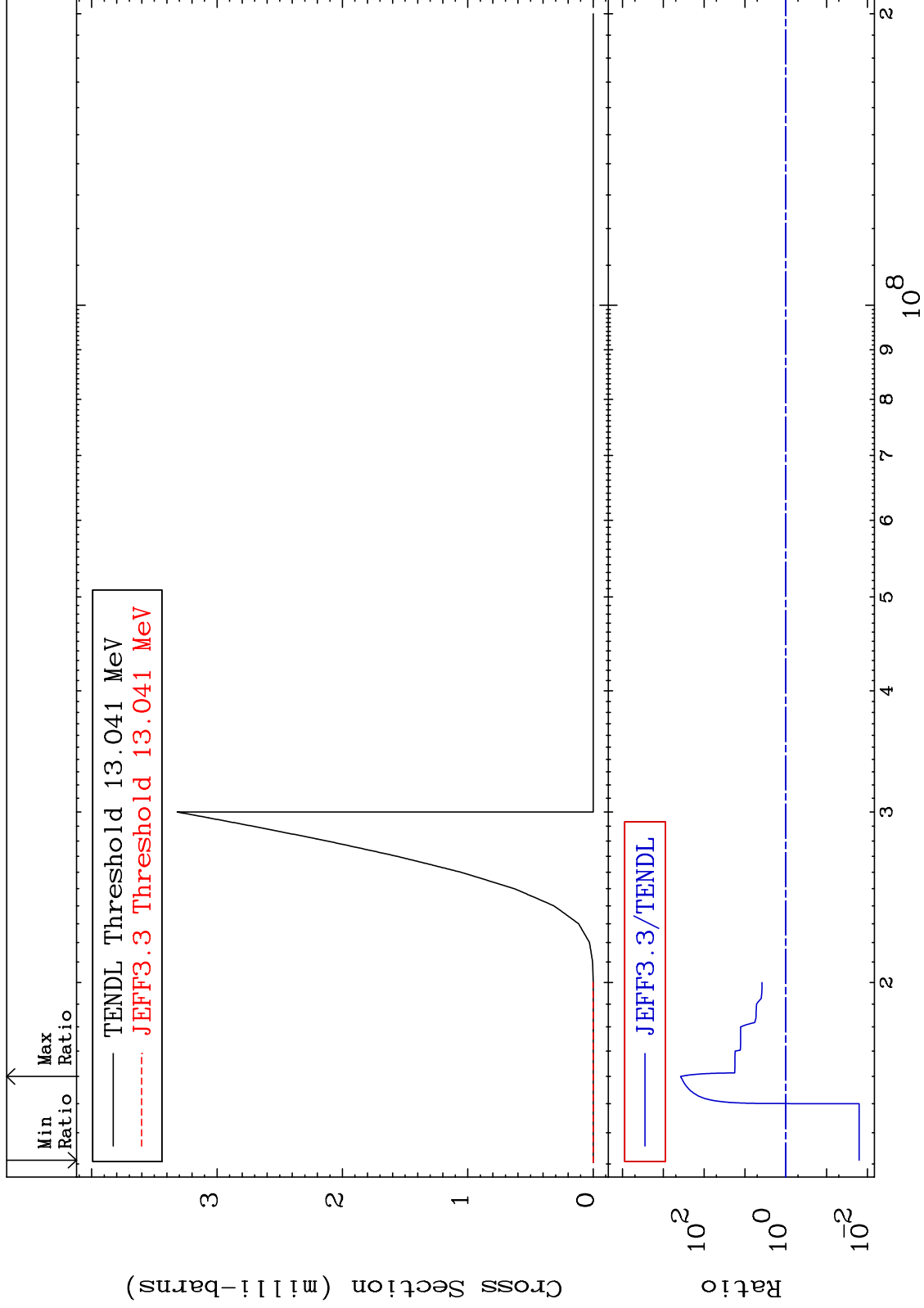


MAT 7225

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

72-Hf-174

Radionuclide Production Cross Section -98.41 To 9999. %



75

Incident Energy (eV)

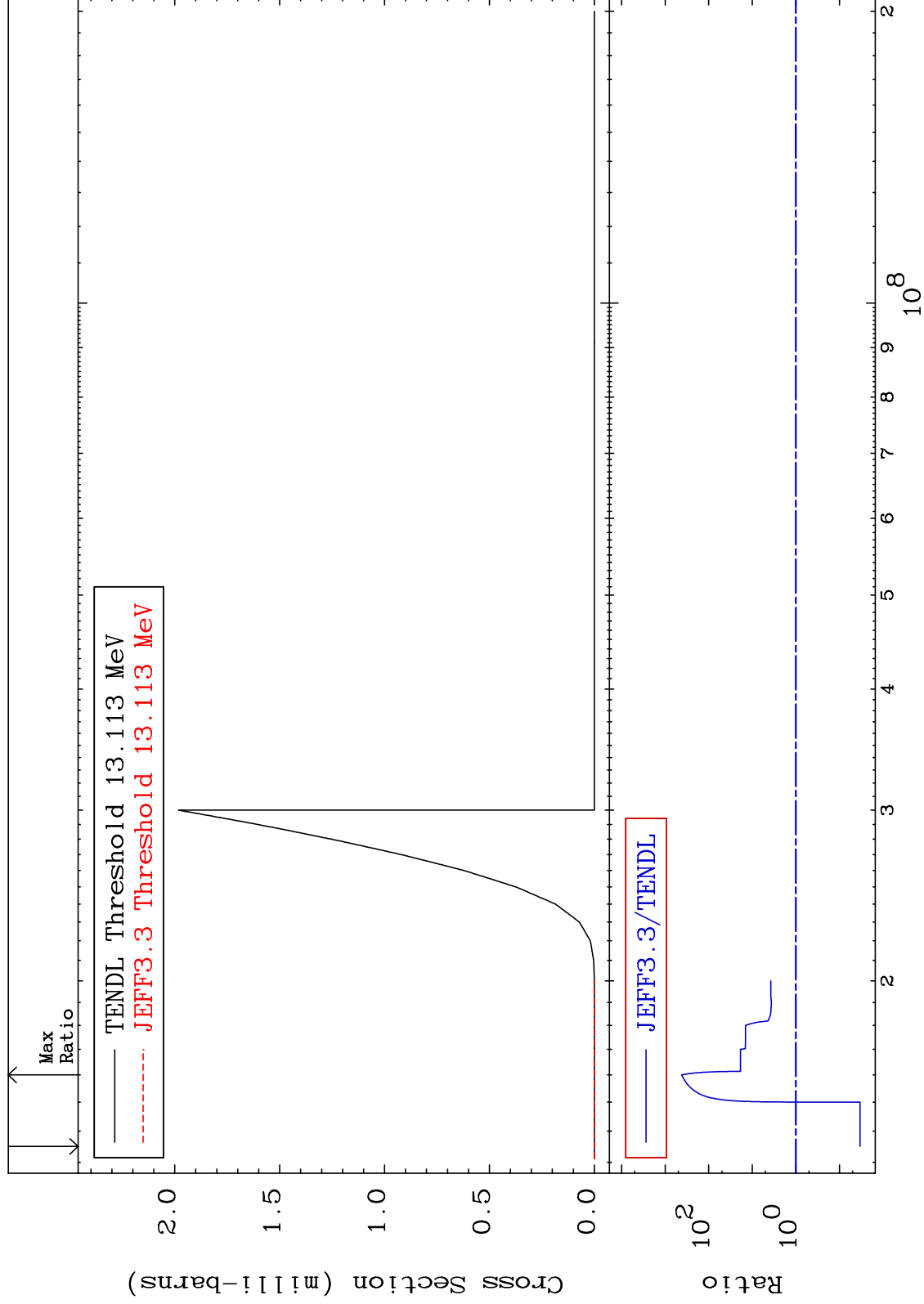
72-Hf-174

MAT 7225

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

72-Hf-174

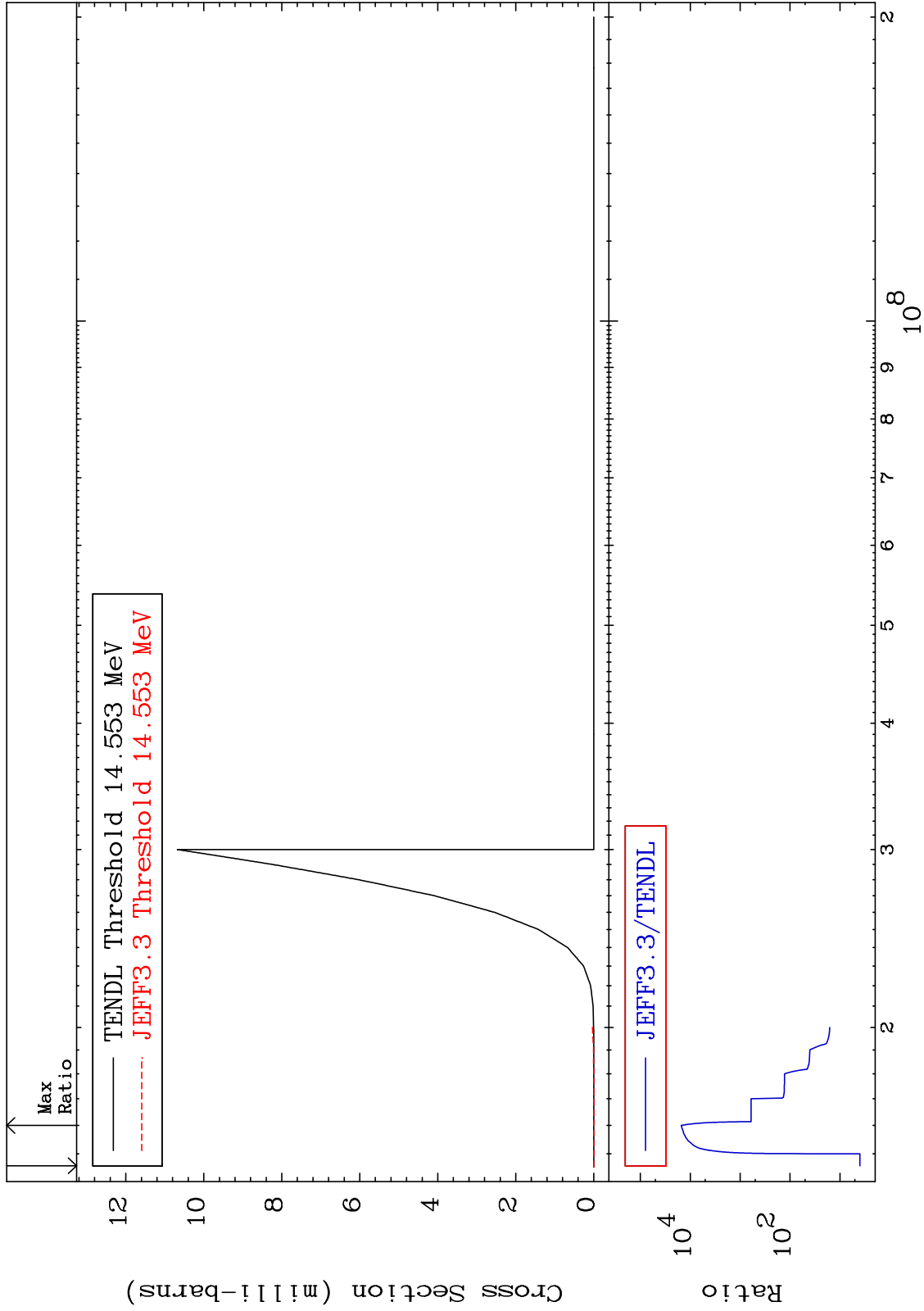
Radionuclide Production Cross Section -96.63 To 9999. %



76

Incident Energy (eV)

72-Hf-174

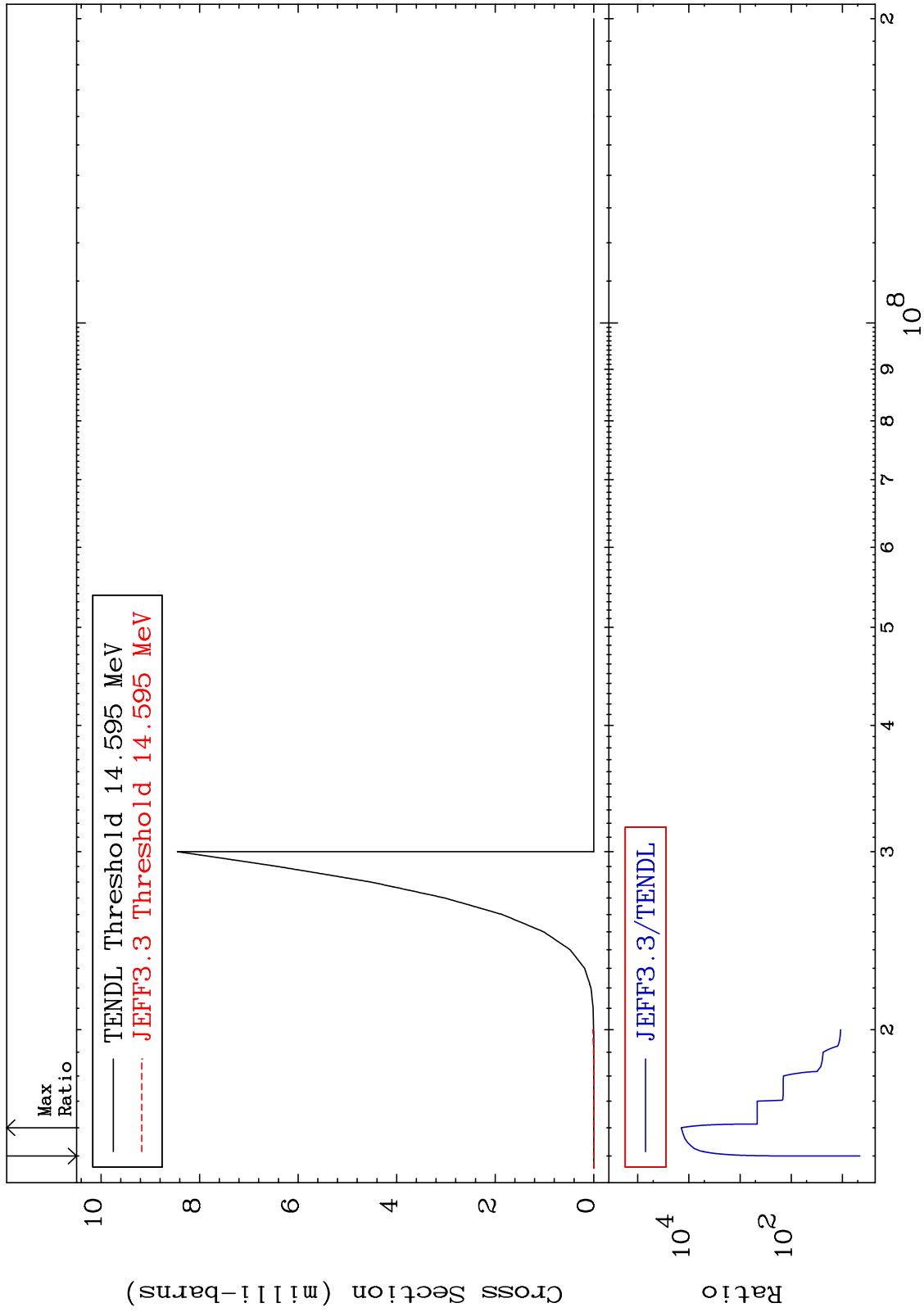


MAT 7225

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

72-Hf-174

Radionuclide Production Cross Section 354.0 To 9999. %



78

Incident Energy (eV)

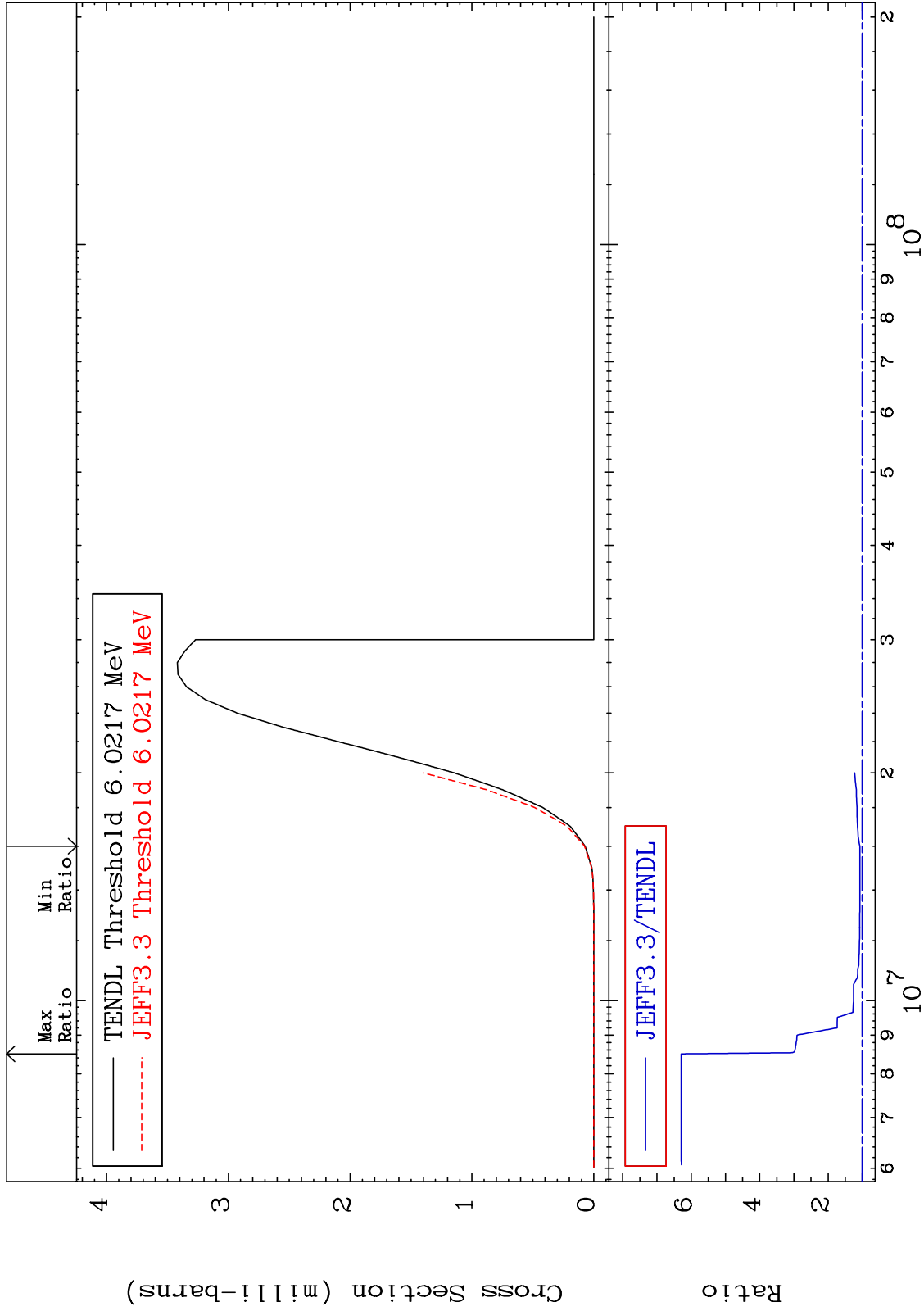
72-Hf-174

MAT 7225

(n, t): 71-Lu-172g

72-Hf-174

Radionuclide Production Cross Section 7.076 To 529.1 %



79

Incident Energy (eV)

72-Hf-174

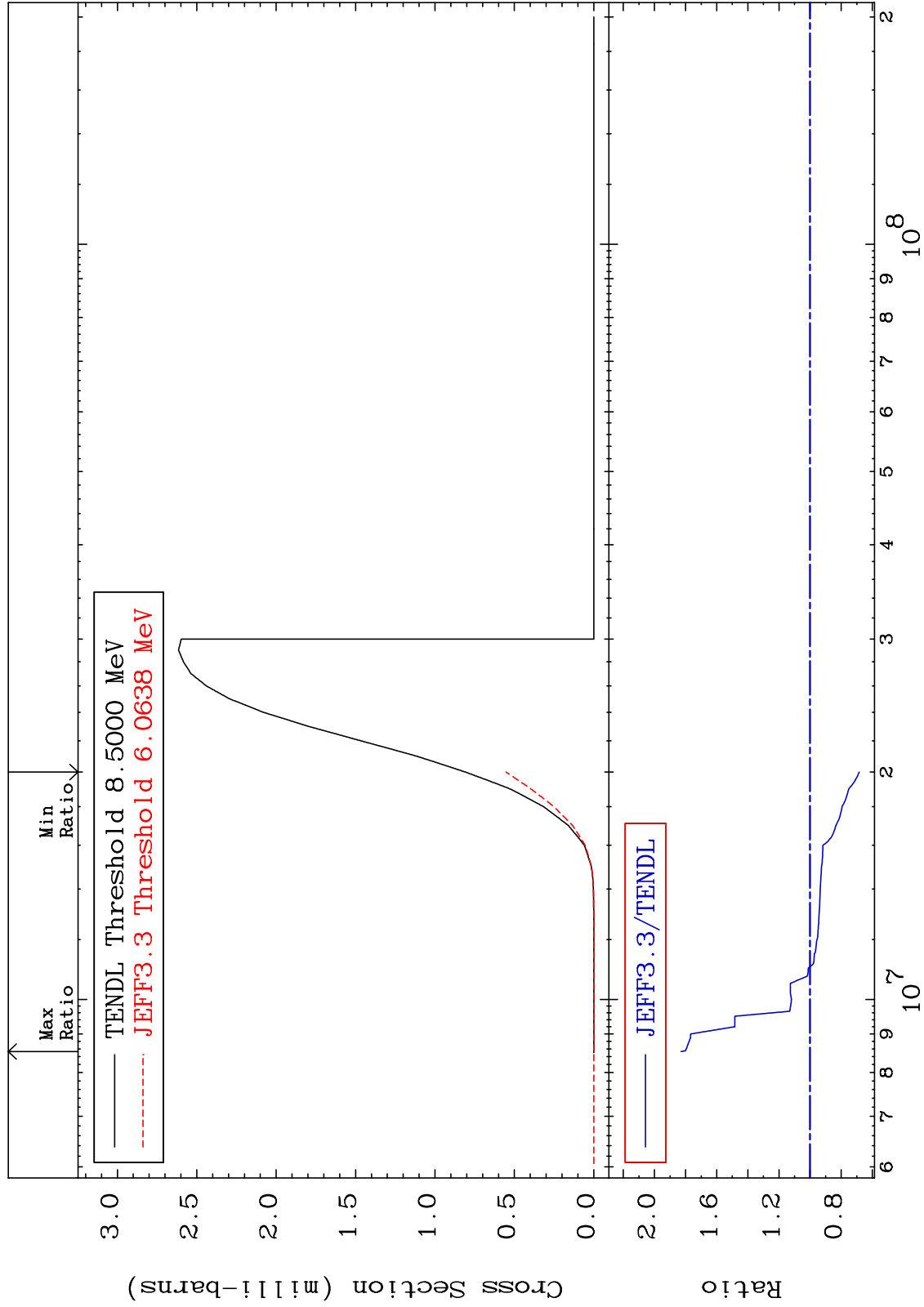
MAT 7225

(n, t): 71-Lu-172m1

72-Hf-174

Radionuclide Production Cross Section

-31.62 To 82.91 %



80

Incident Energy (eV)

72-Hf-174