

Program Complot
(Version 2018-1)

by

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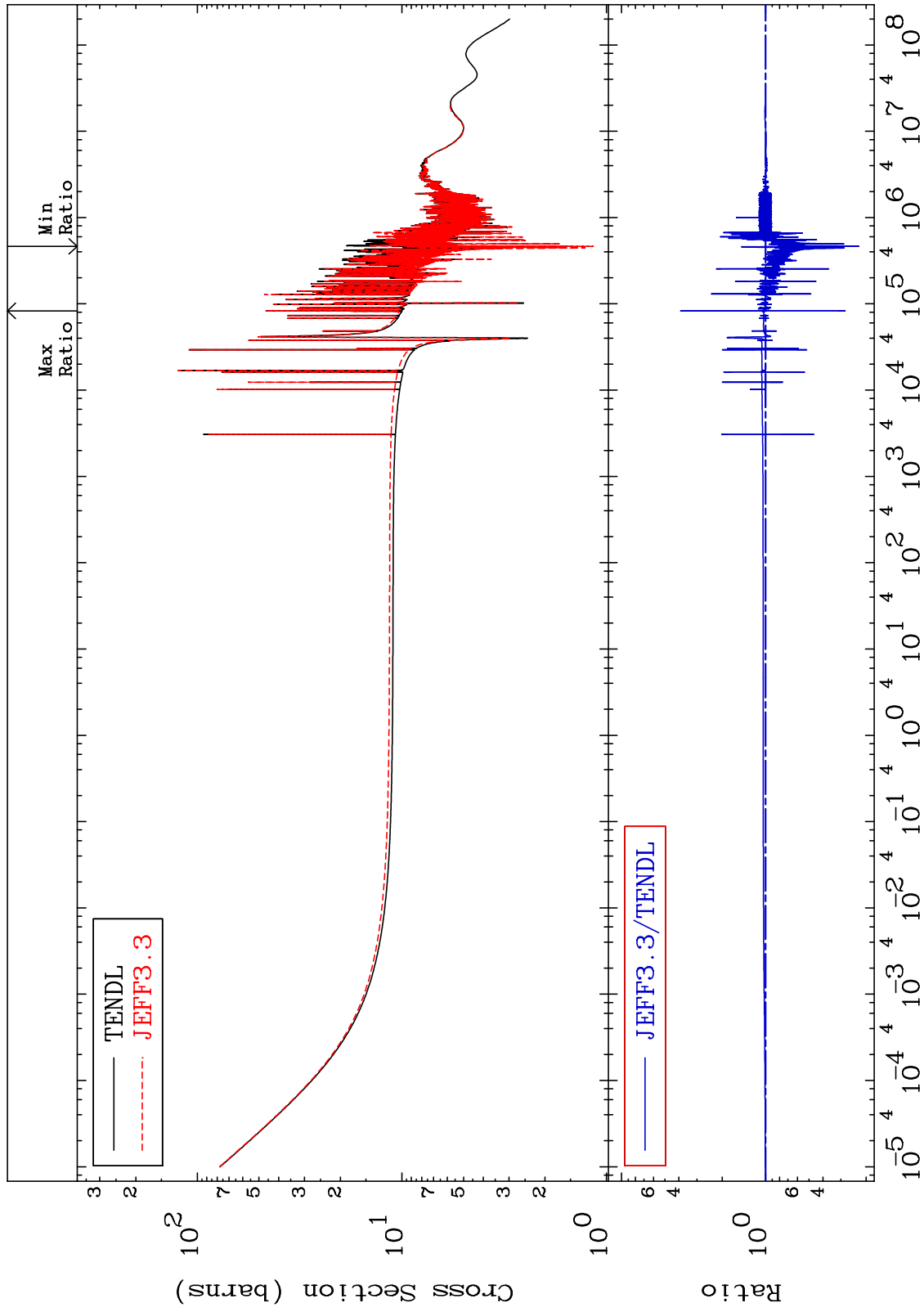
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 8234

Total
Cross Section

82-Pb-207
-77.55 To 288.9 %



1

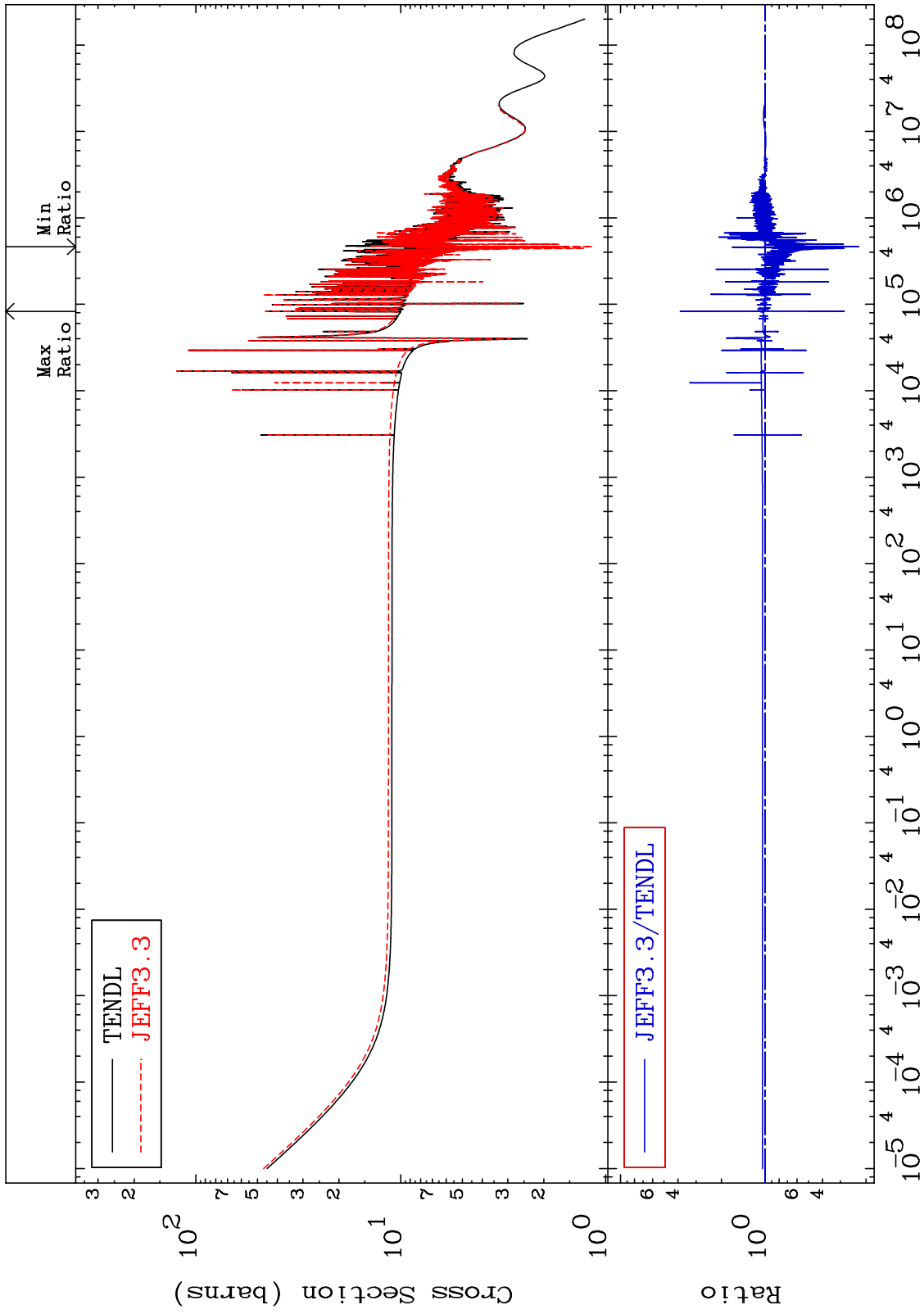
Incident Energy (eV)

82-Pb-207

MAT 8234

Elastic
Cross Section

82-Pb-207
-77.59 To 286.4 %

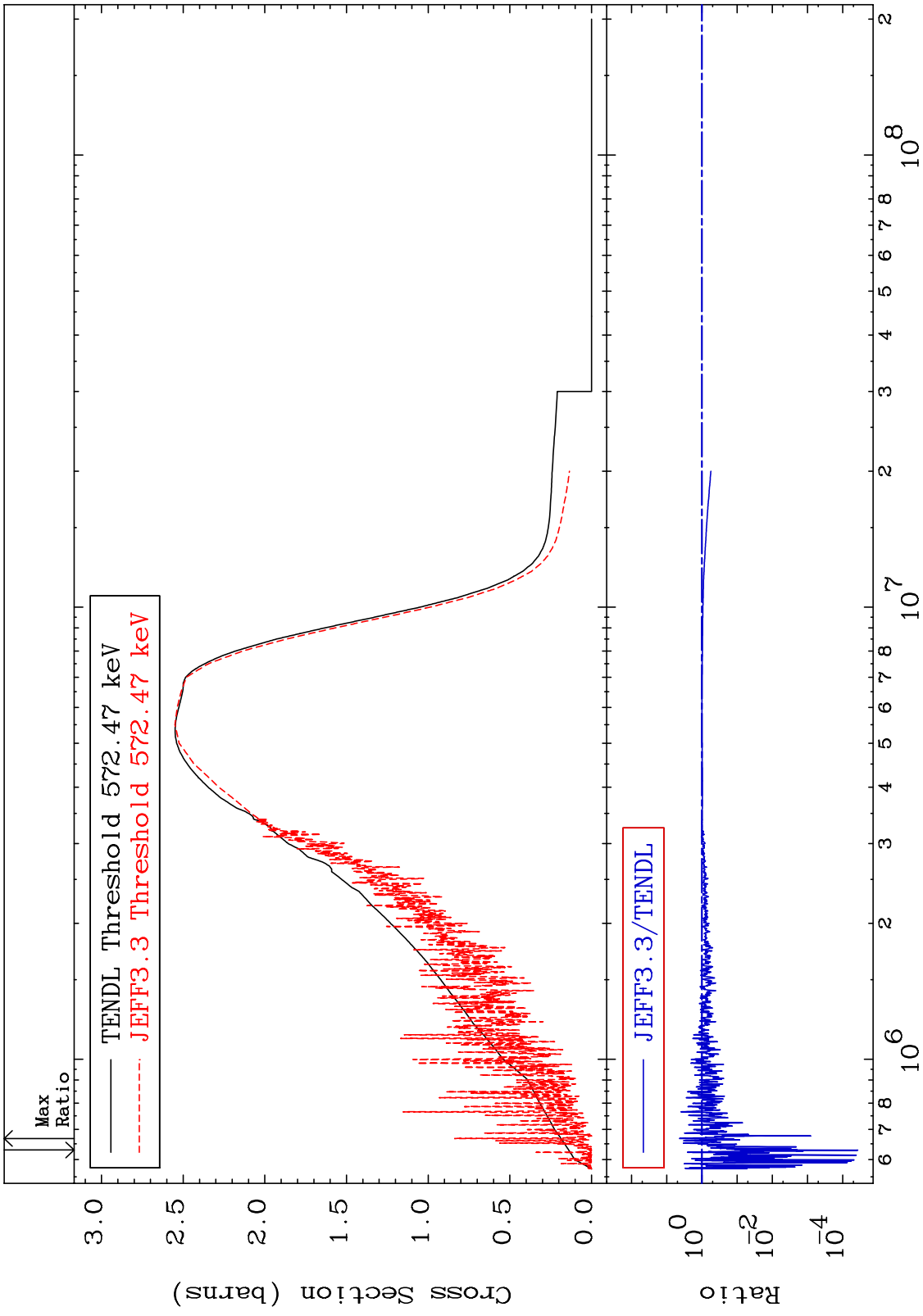


2

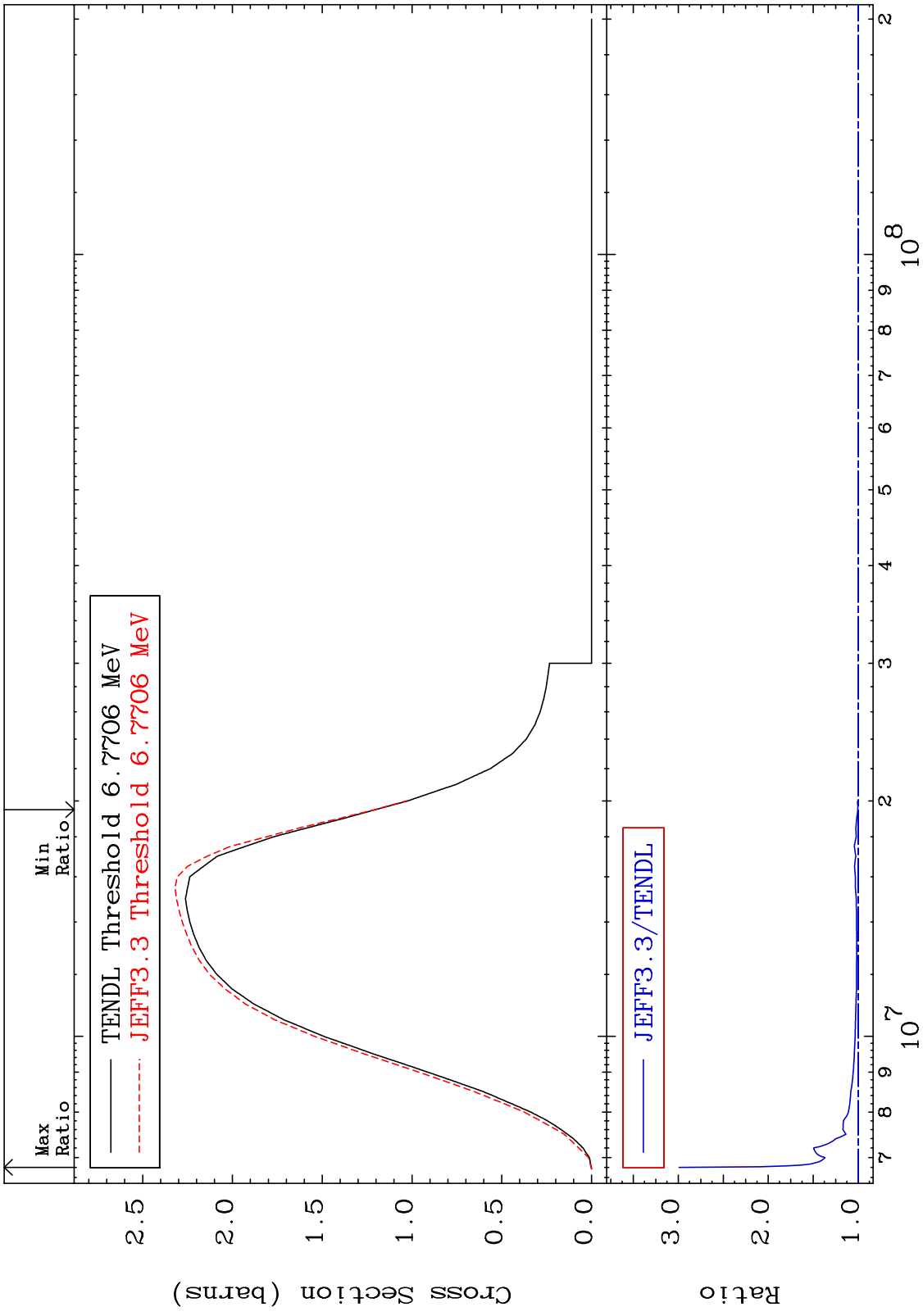
Incident Energy (eV)

82-Pb-207

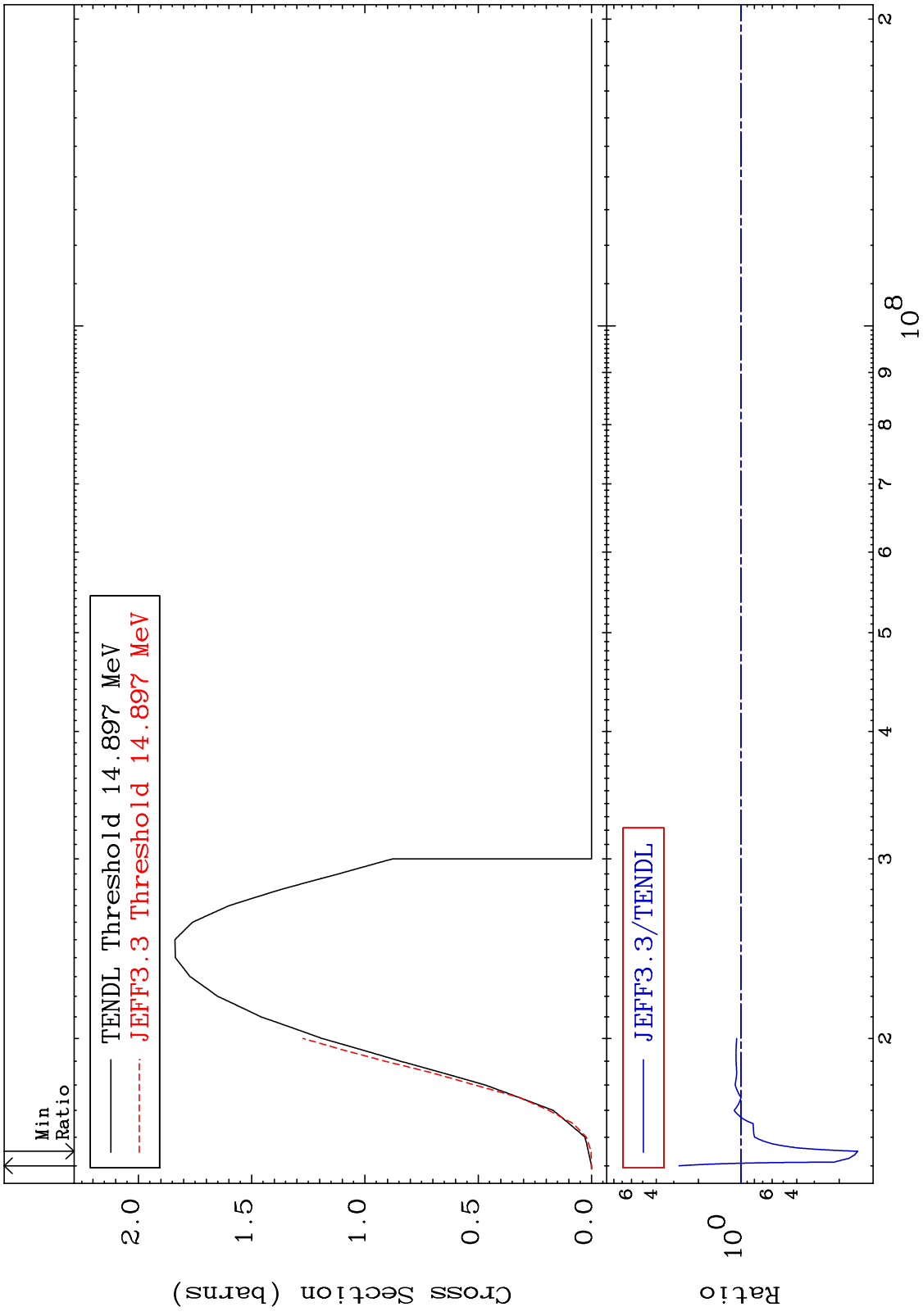
MAT 8234 Inelastic Cross Section 82-Pb-207 -100.0 To 347.4 %



MAT 8234 (n,2n) Cross Section 82-Pb-207
 0.389 To 199.1 %



MAT 8234 (n,3n) Cross Section 82-Pb-207 -85.29 To 175.2 %



MAT 8234

(n,n') α

82-Pb-207

-100.0 To 9999. %

Cross Section

Min Ratio

Max Ratio

TENDL Threshold 559.19 keV
JEFF3.3 Threshold 2.5000 MeV

Cross Section (milli-barns)

8
6
4
2
0

JEFF3.3/TENDL

Ratio

10^8
 10^0
 10^{-8}
 10^{-16}

Incident Energy (eV)

10^7
 10^8

6

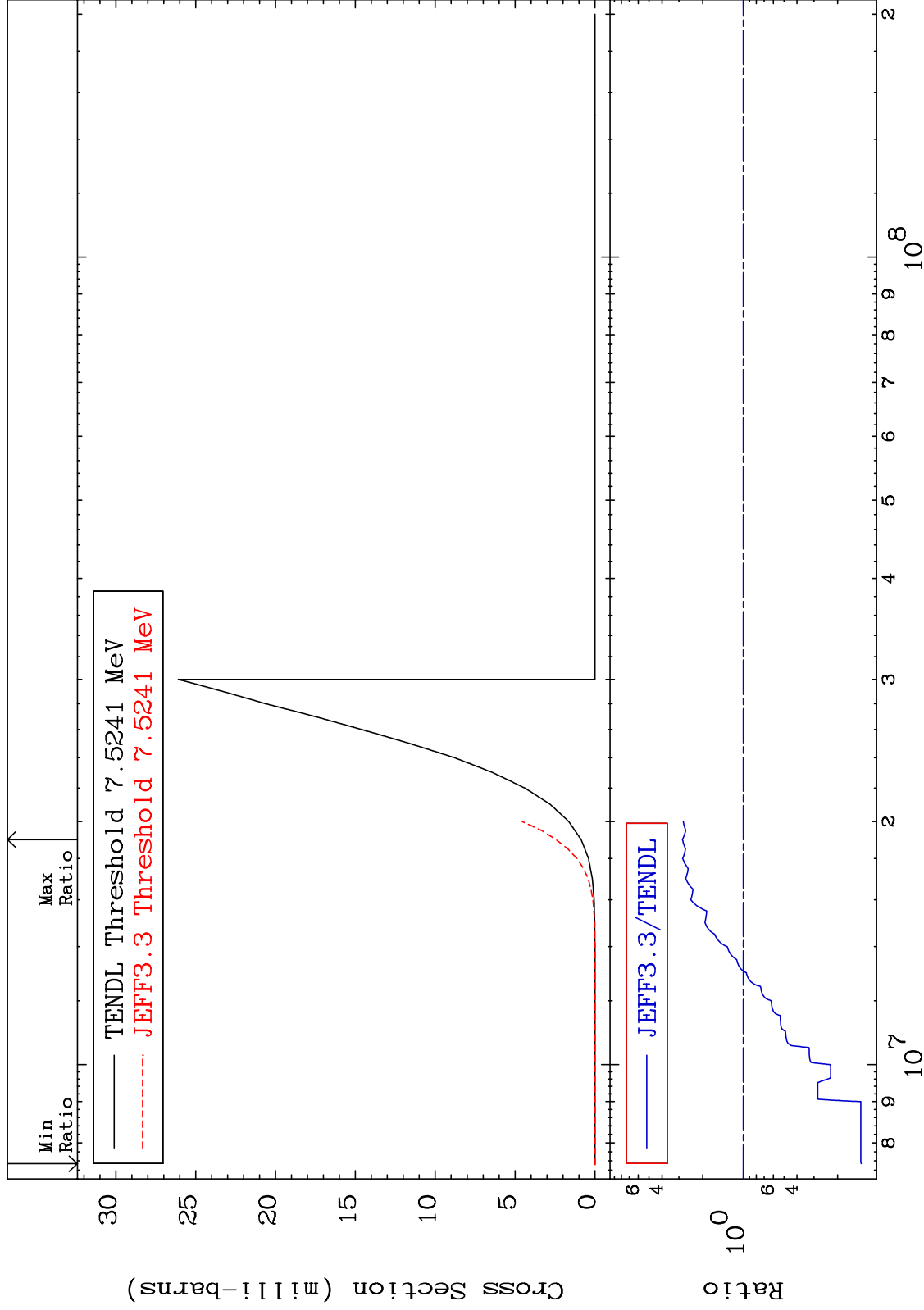
Incident Energy (eV)

82-Pb-207

MAT 8234

(n, n') p
Cross Section

82-Pb-207
-86.62 To 182.2 %

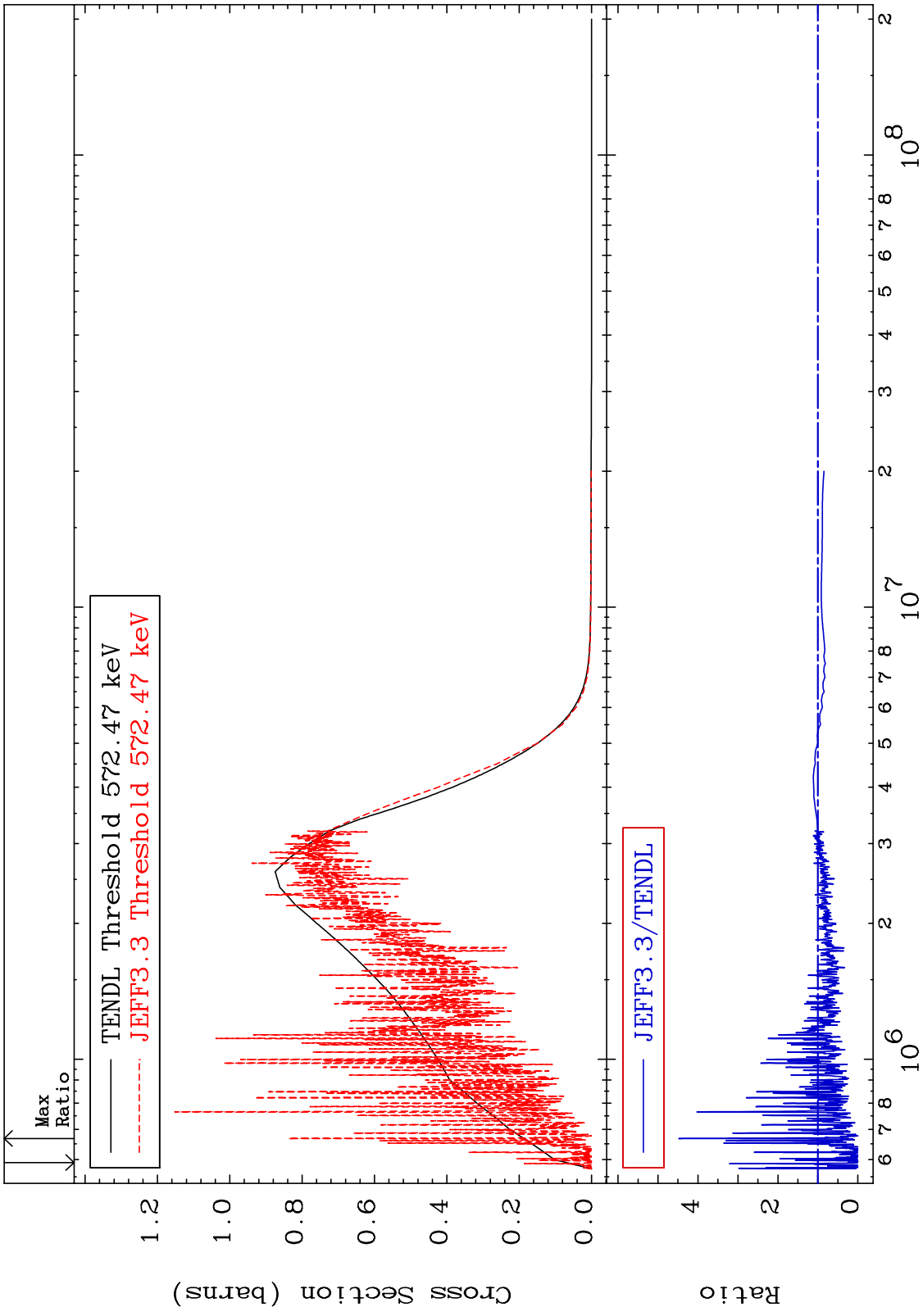


7

Incident Energy (eV)

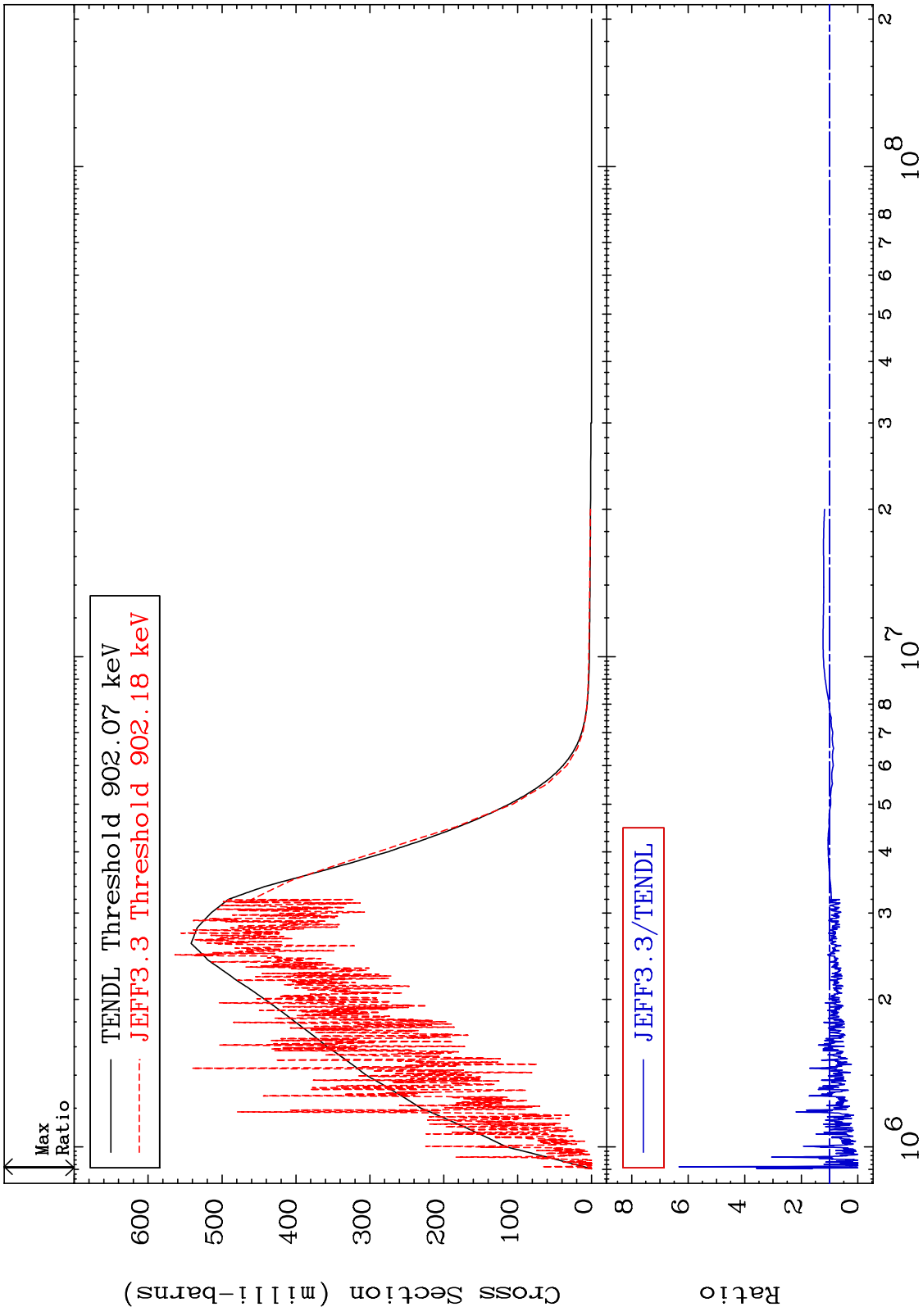
82-Pb-207

MAT 8234 MT= 51 (n,n') Level Cross Section 82-Pb-207
-100.0 To 347.4 %



8 82-Pb-207

MAT 8234 MT= 52 (n,n') Level 82-Pb-207
Cross Section -100.0 To 532.4 %

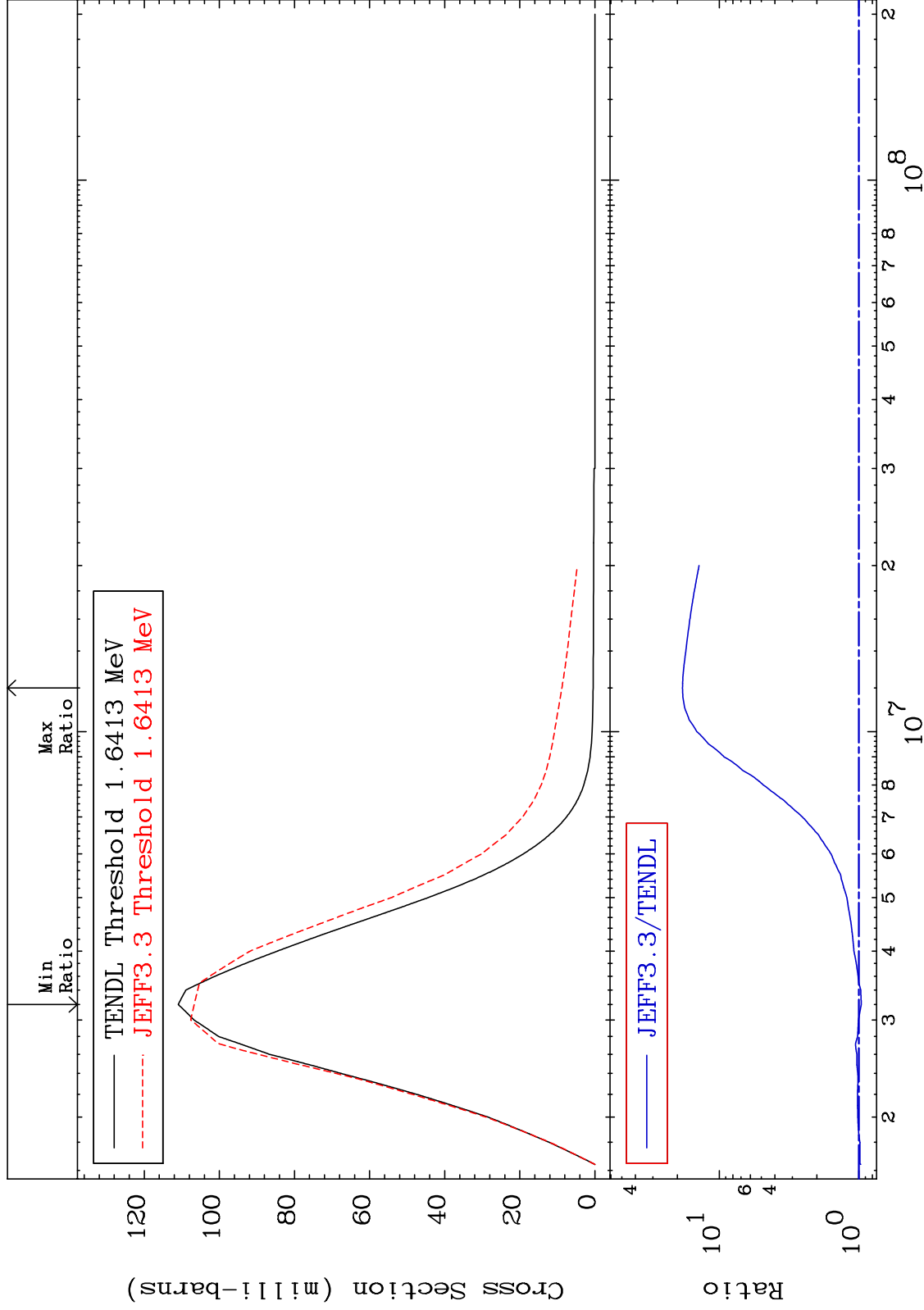


9 10⁶ 10⁷ 10⁸ 82-Pb-207

MAT 8234

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

82-Pb-207
-3.827 To 1740. %

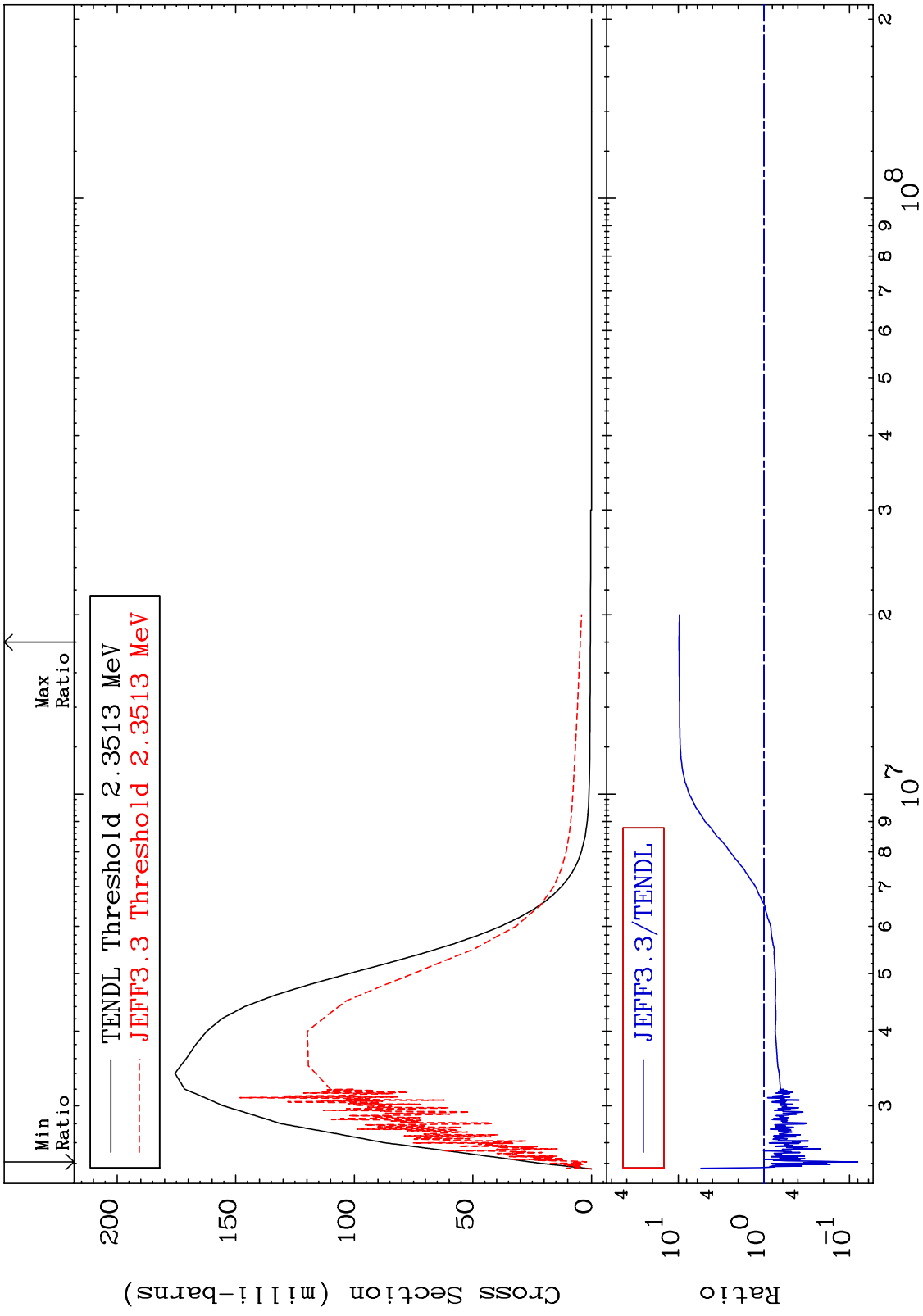


10

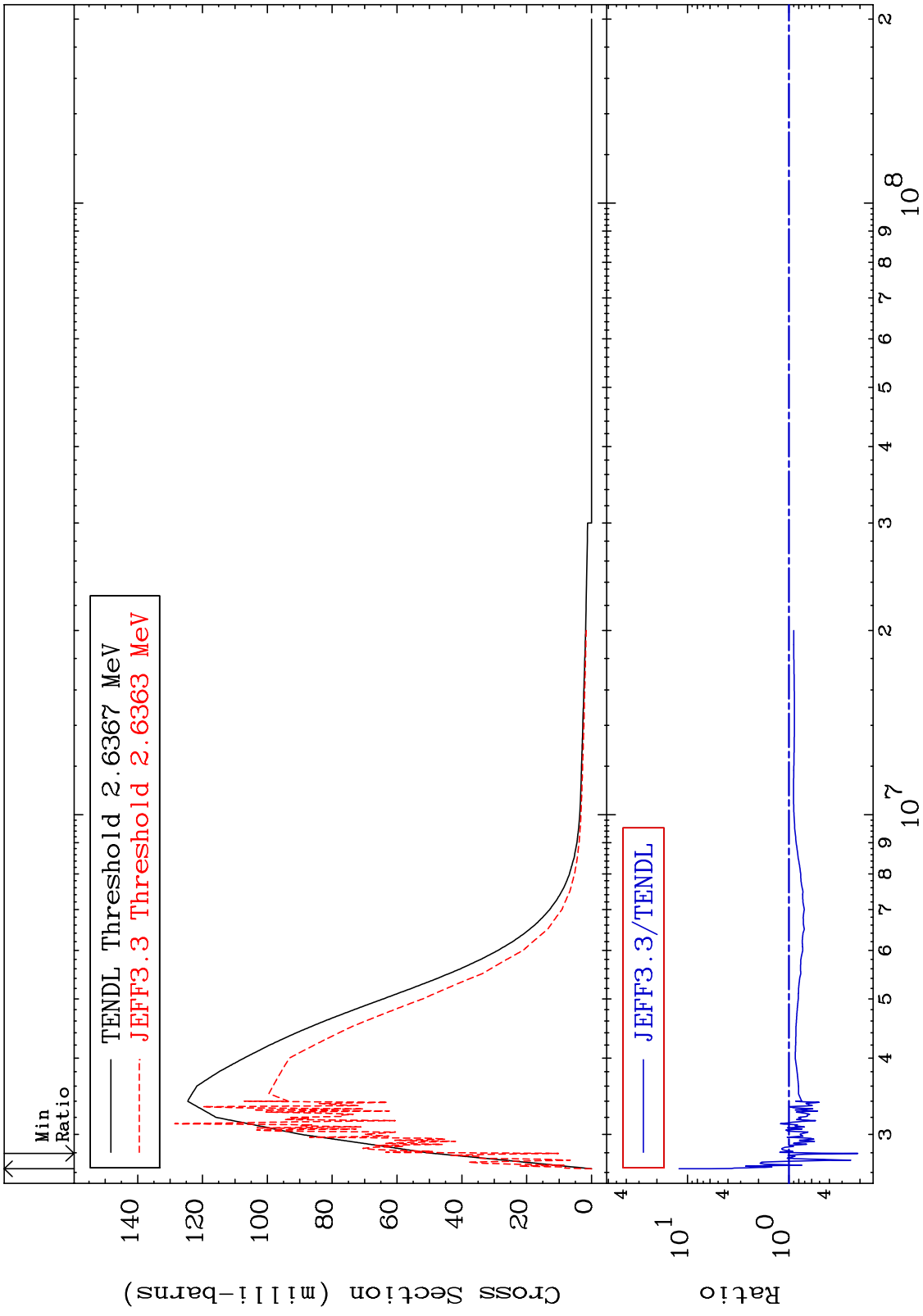
Incident Energy (eV)

82-Pb-207

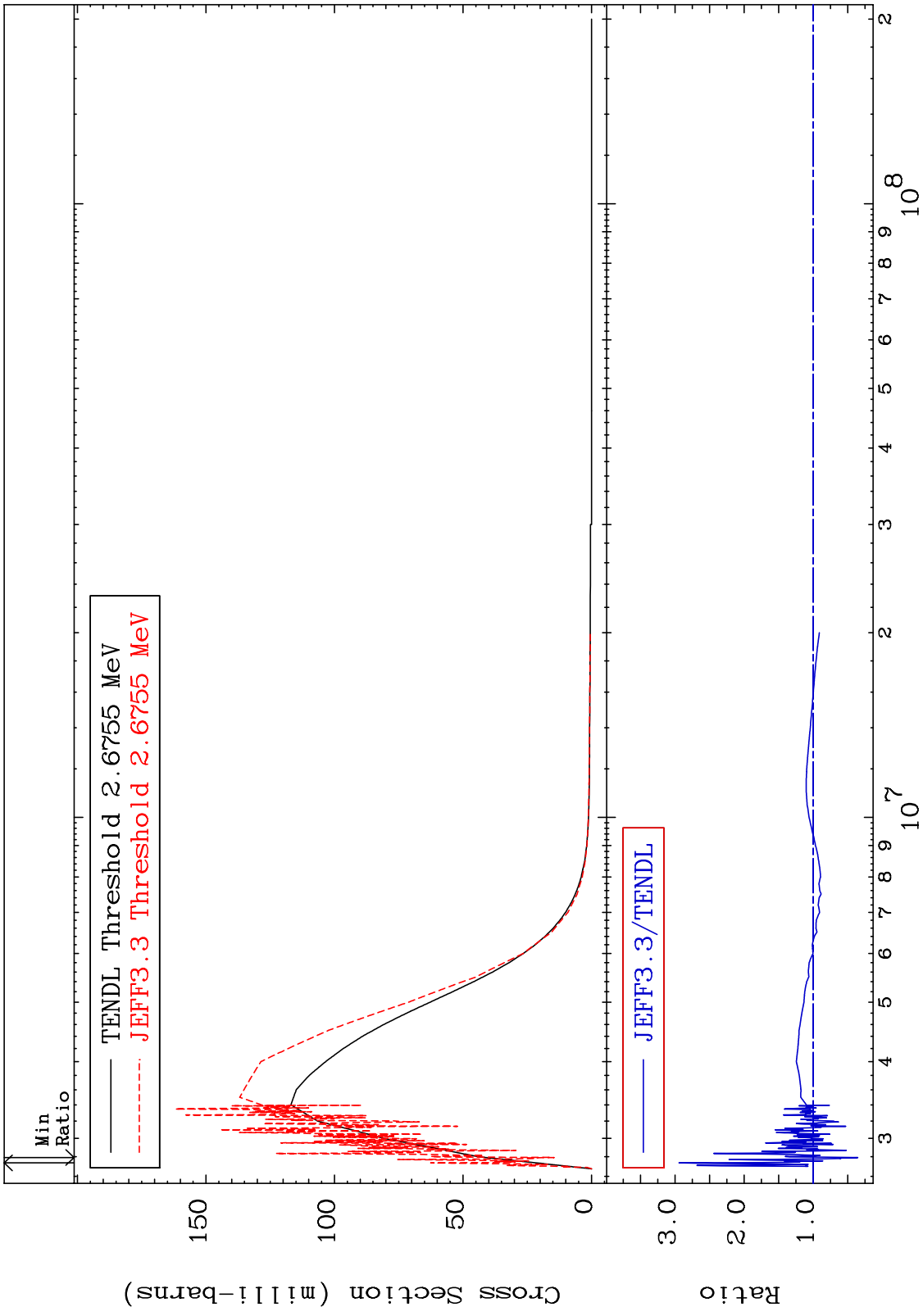
MAT 8234 MT= 54 (n,n') Level Cross Section 82-Pb-207 -91.99 To 879.2 %



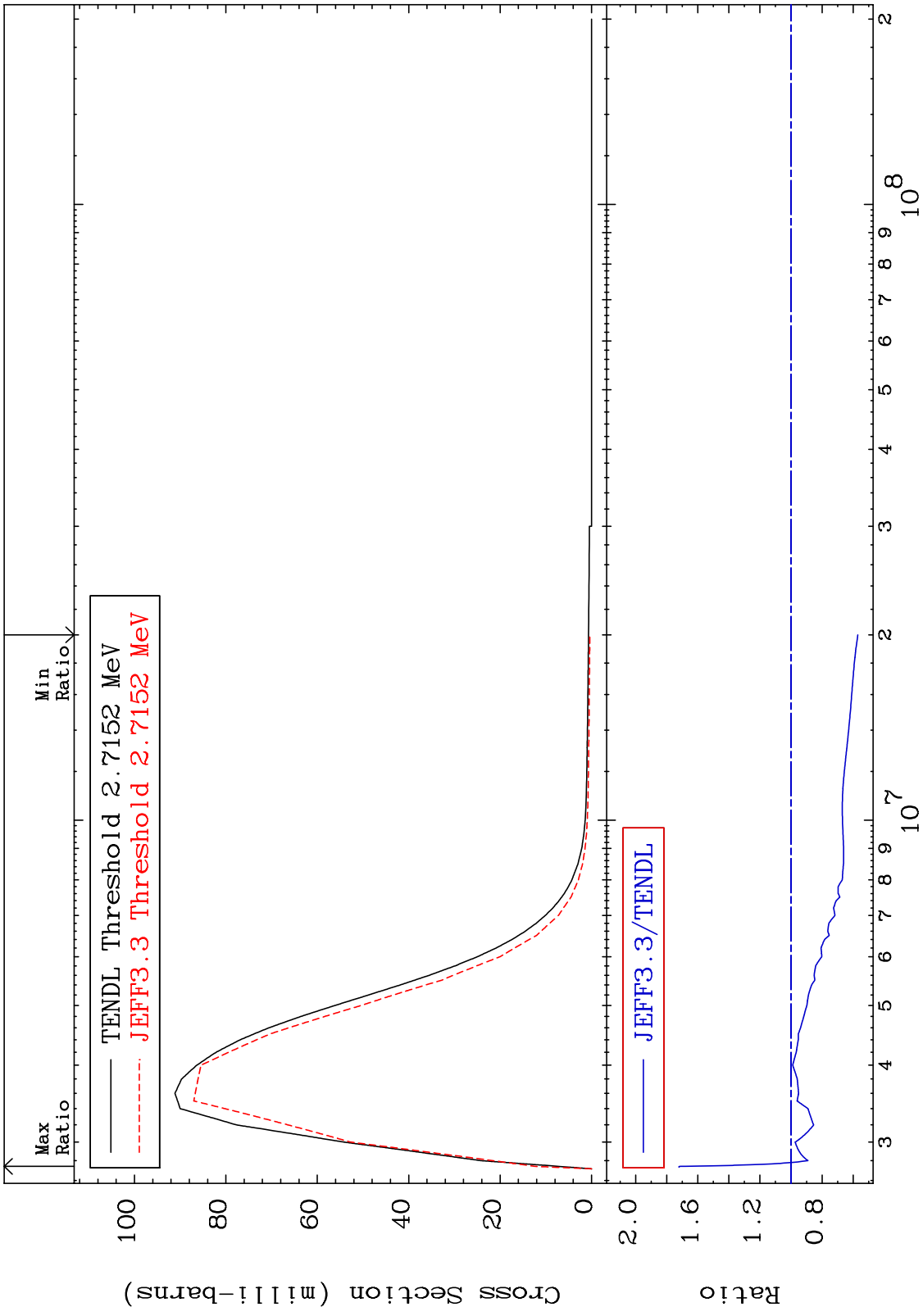
MAT 8234 MT= 55 (n,n') Level Cross Section 82-Pb-207 -78.98 To 1110. %



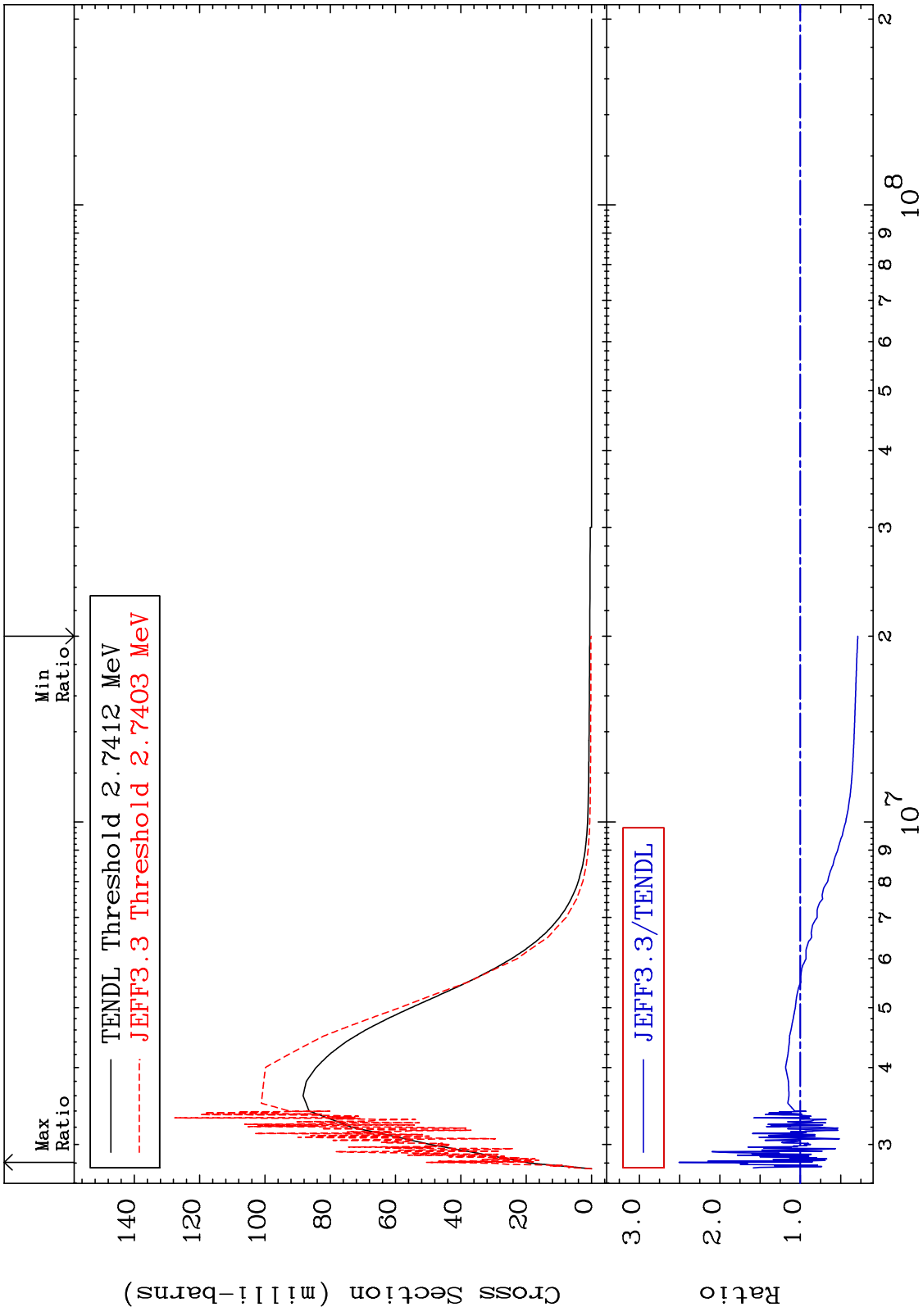
MAT 8234 MT= 56 (n,n') Level Cross Section 82-Pb-207
-64.64 To 194.1 %



MAT 8234 MT= 57 (n,n') Level Cross Section 82-Pb-207
 -43.01 To 72.06 %



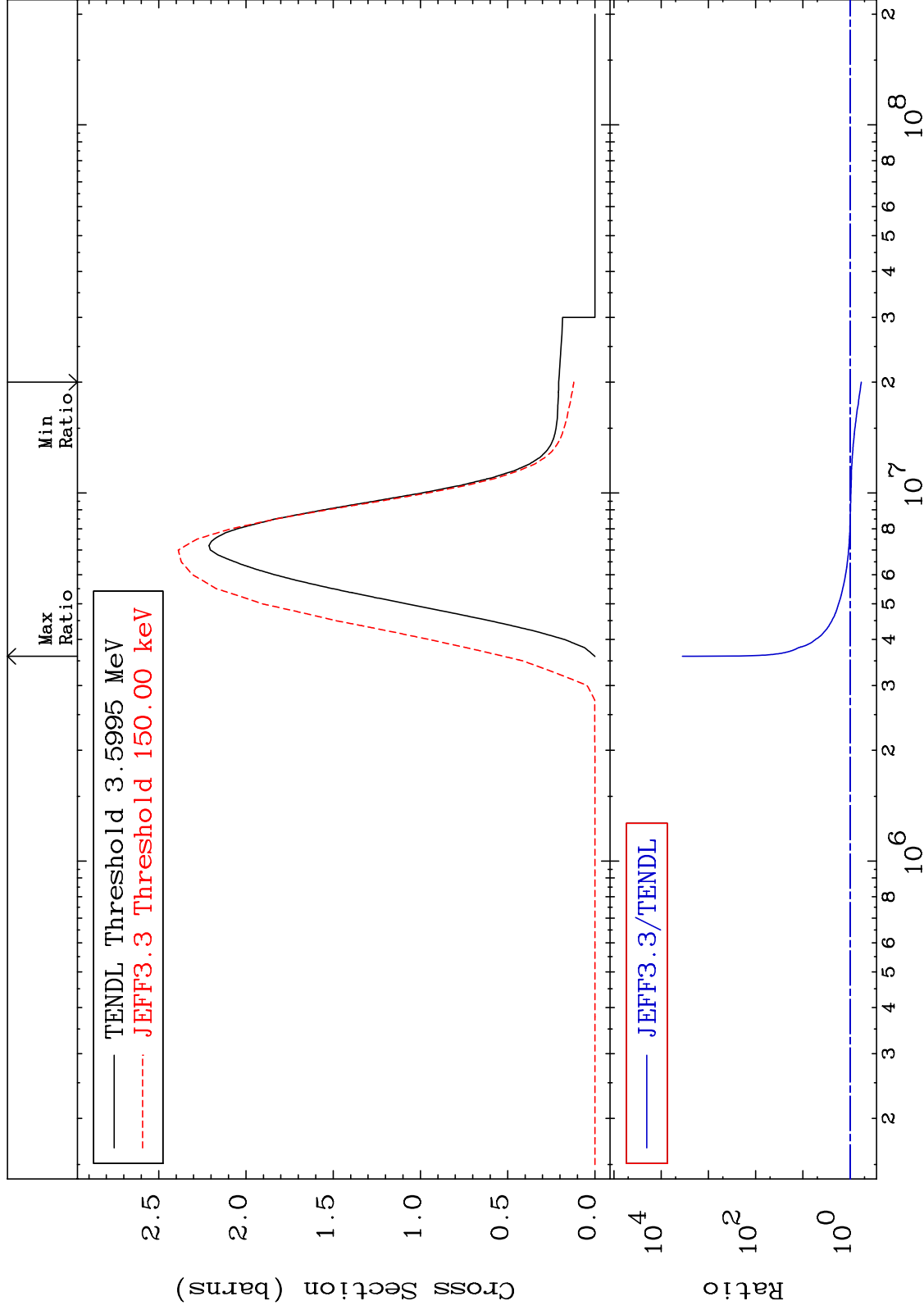
MAT 8234 MT= 58 (n,n') Level Cross Section 82-Pb-207
 -71.35 To 150.7 %



MAT 8234

(n, n') Continuum
Cross Section

82-Pb-207
-41.77 To 9999. %

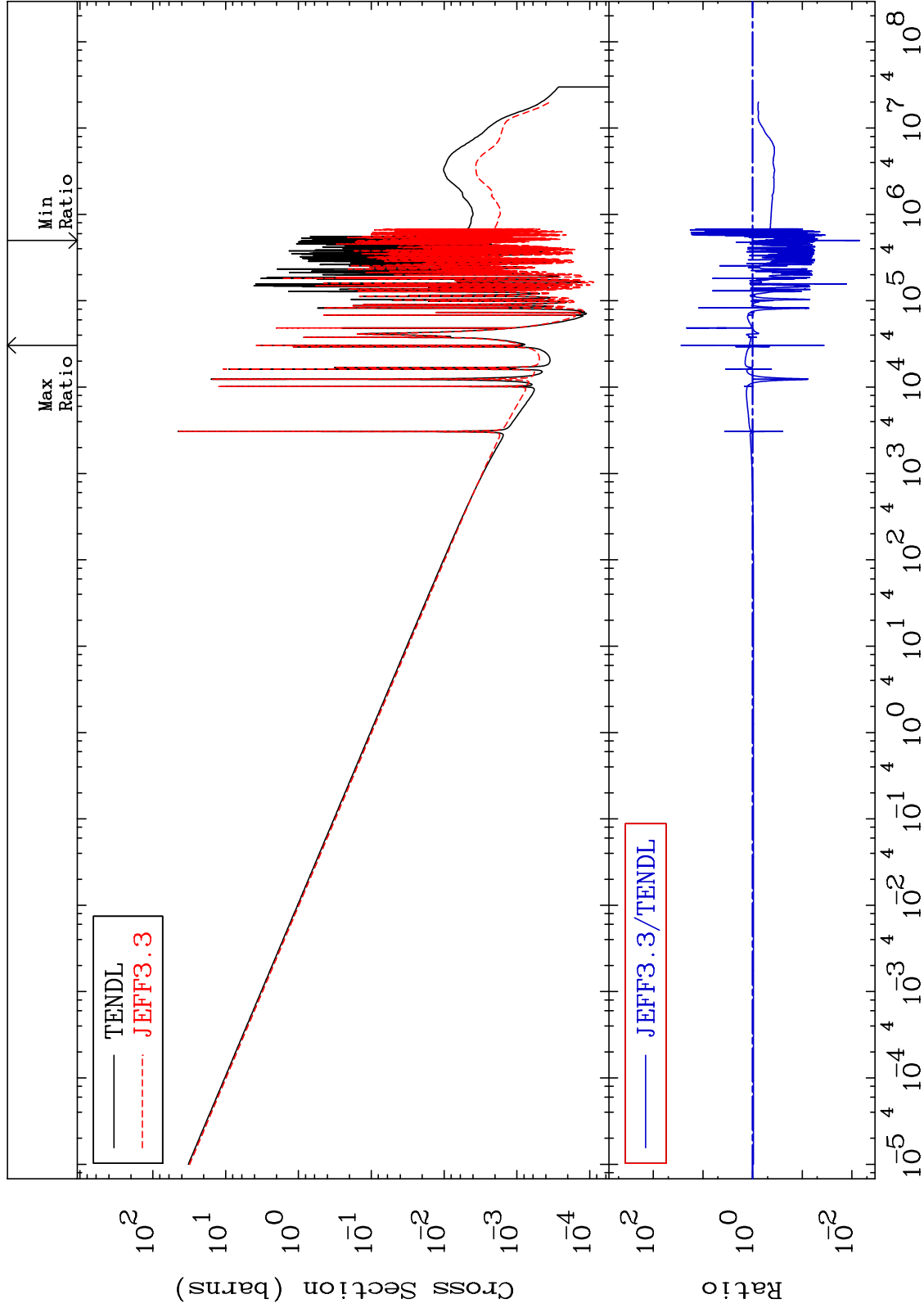


MAT 8234

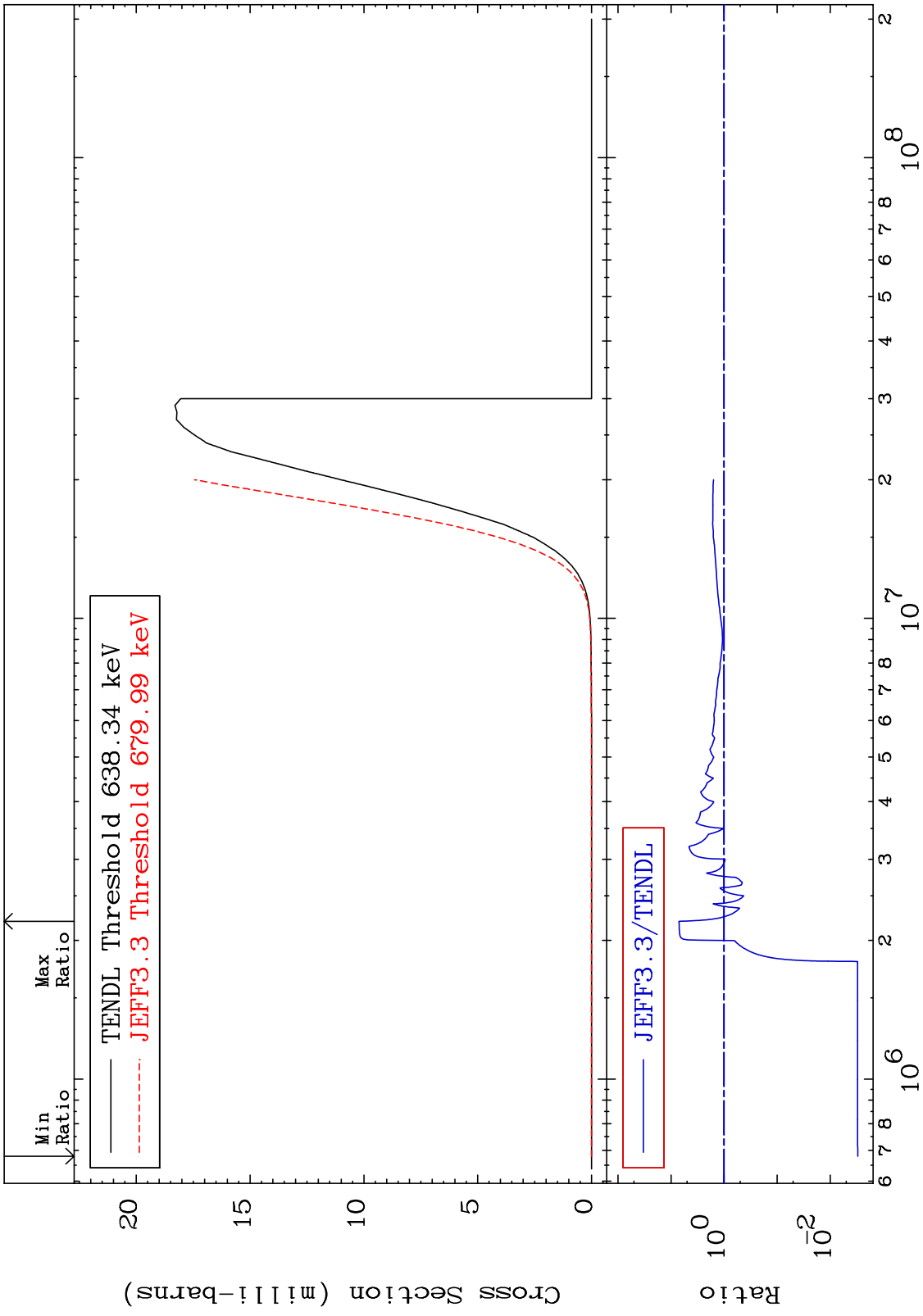
(n, γ)

82-Pb-207
-99.31 To 2632. %

Cross Section



MAT 8234 (n,p) Cross Section 82-Pb-207 -99.70 To 605.9 %



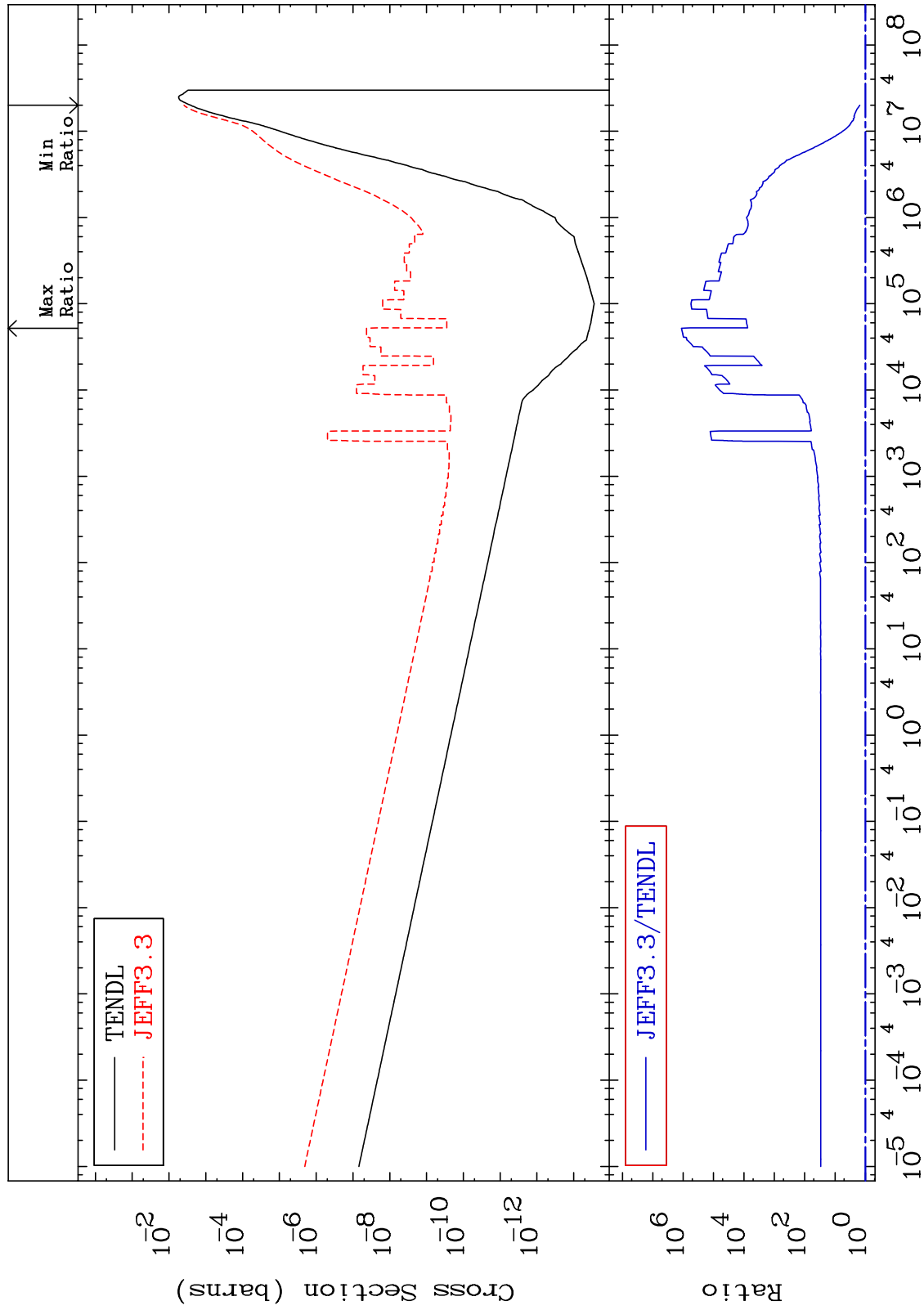
MAT 8234

(n, α)

82-Pb-207

Cross Section

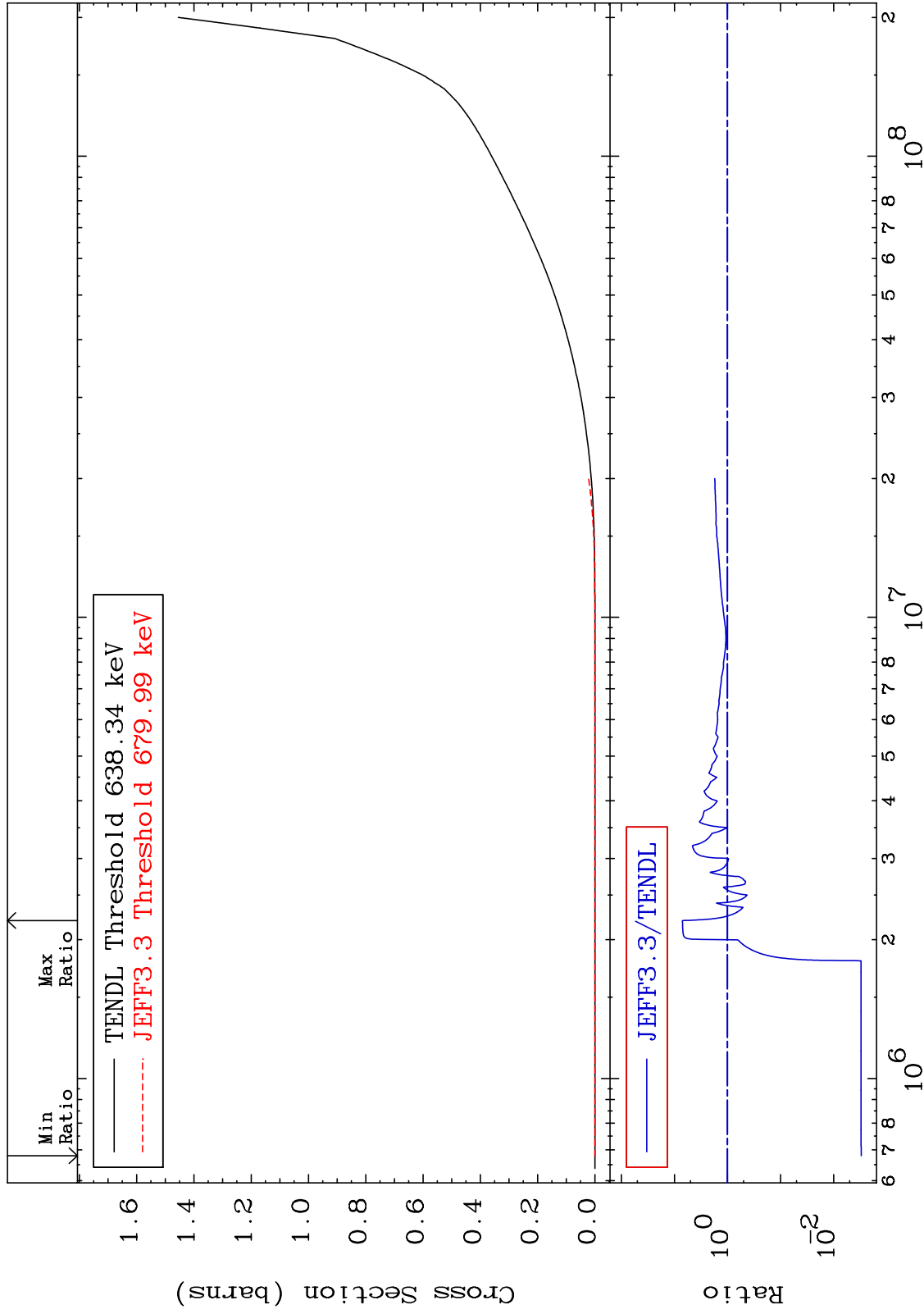
52.70 To 9999. %



MAT 8234

Hydrogen Production
Cross Section

82-Pb-207
-99.70 To 605.8 %



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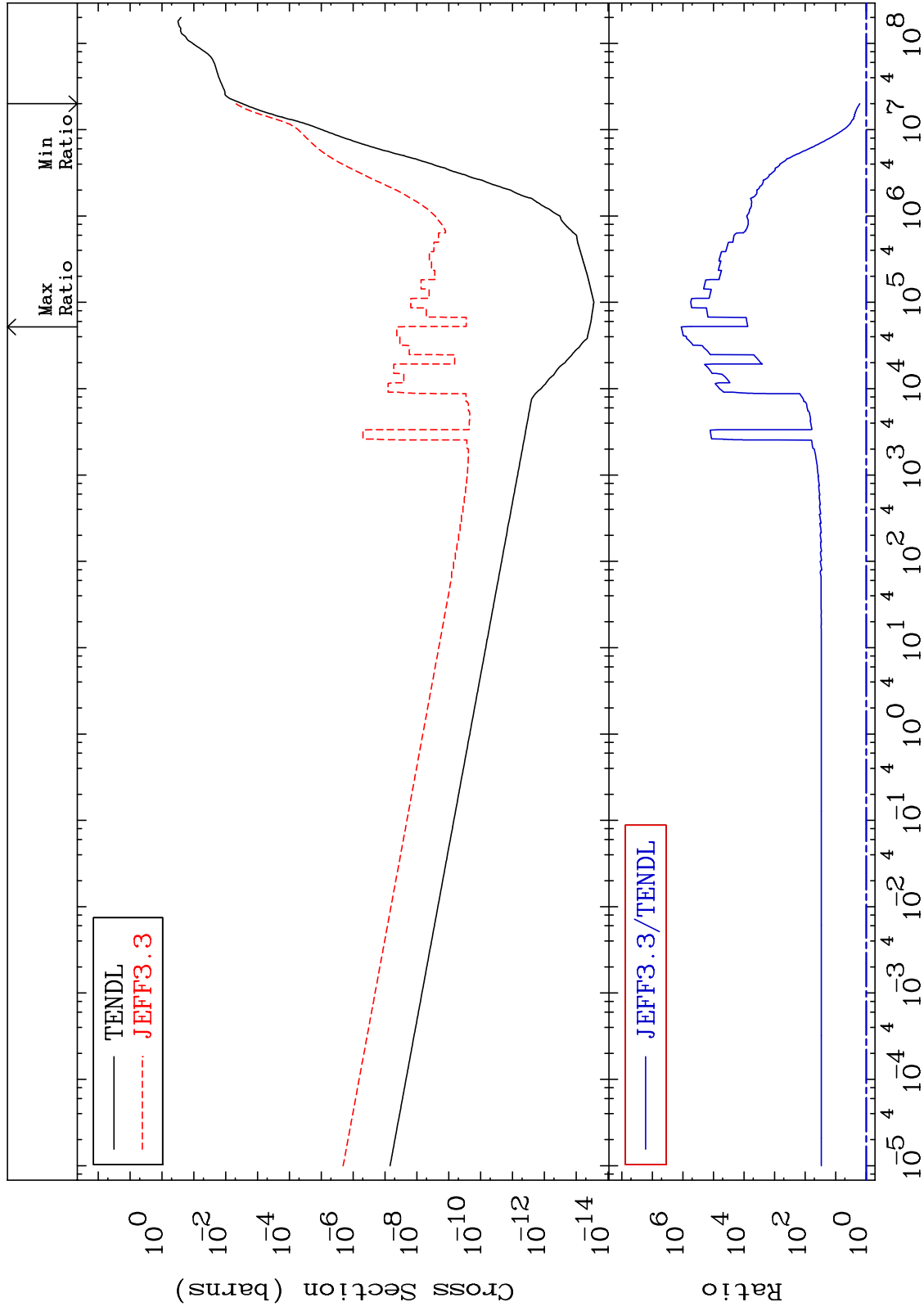
Incident Energy (eV)

82-Pb-207

MAT 8234

He-4 Production
Cross Section

82-Pb-207
63.16 To 9999. %

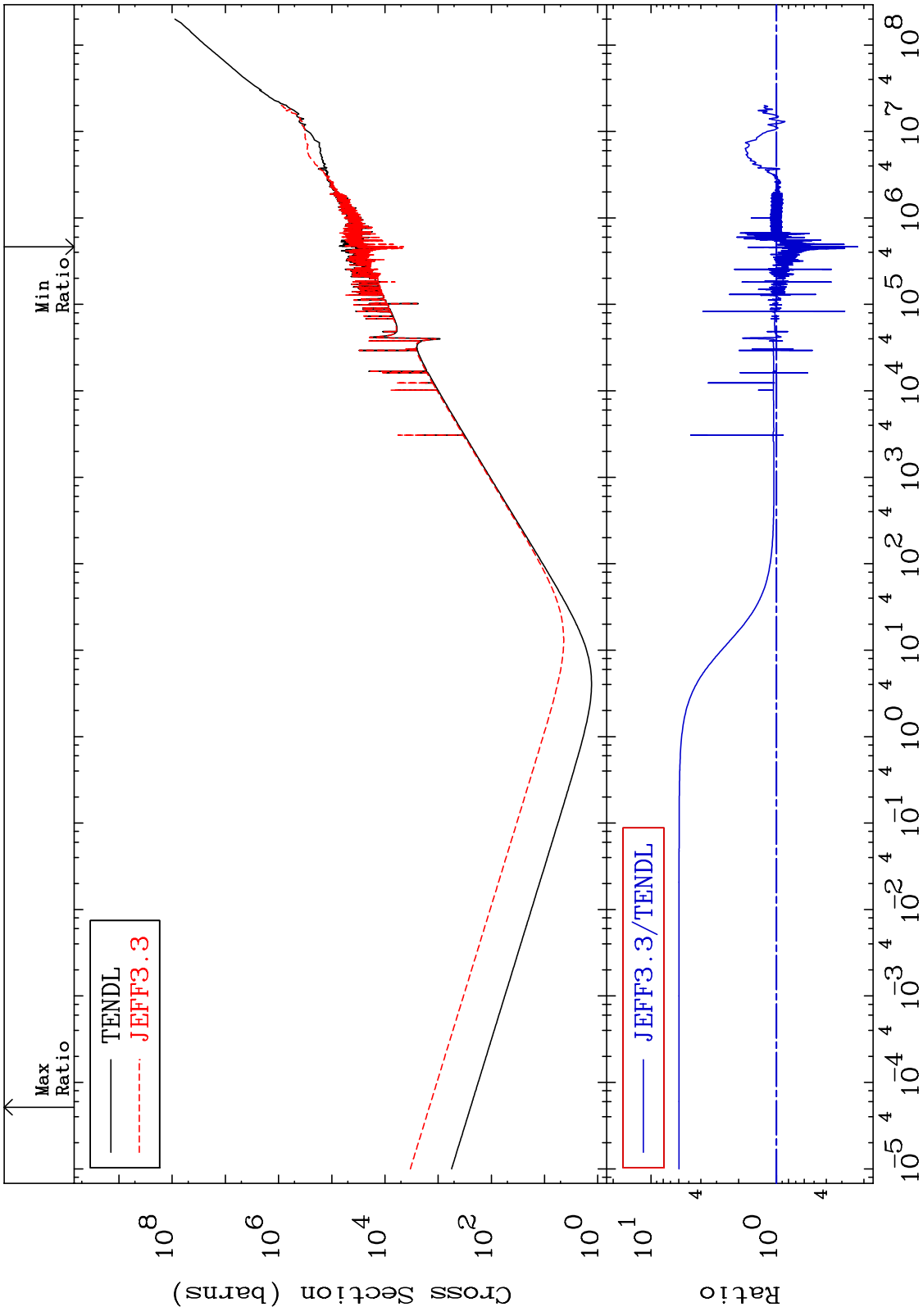


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Incident Energy (eV)

82-Pb-207

MAT 8234 Kerma total (eV-barns)
 Cross Section 82-Pb-207
 -77.60 To 497.4 %

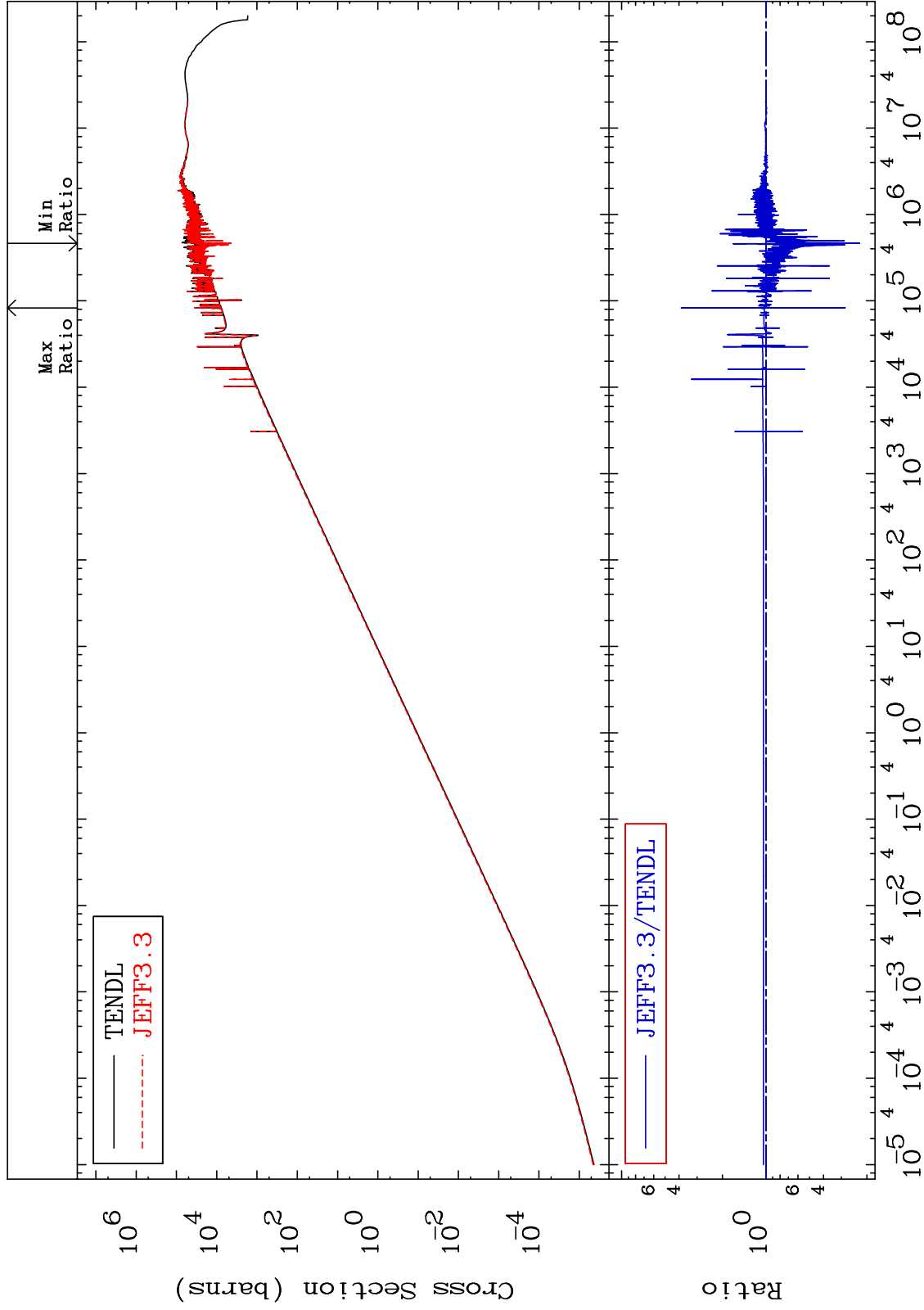


Incident Energy (eV) 82-Pb-207

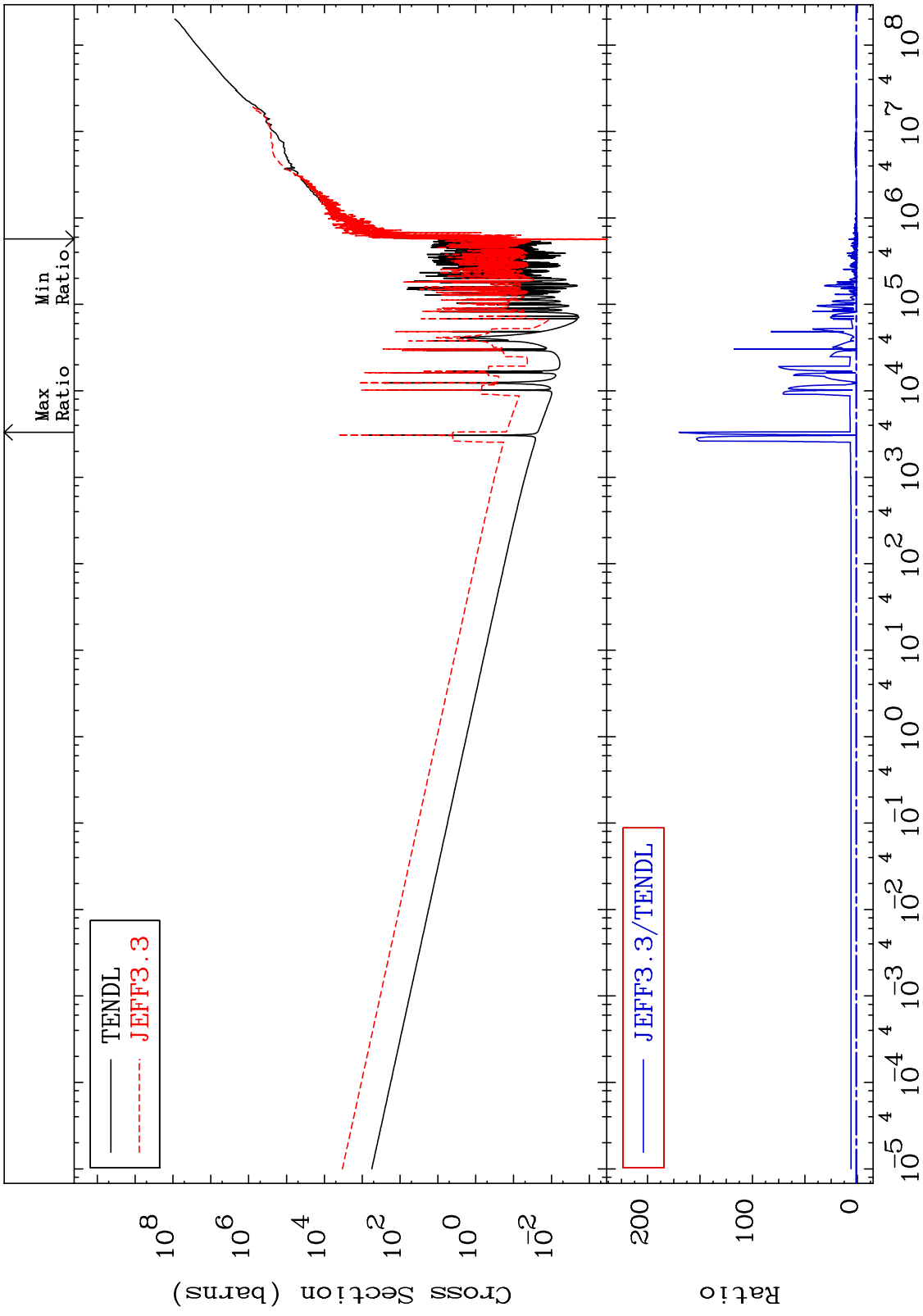
MAT 8234

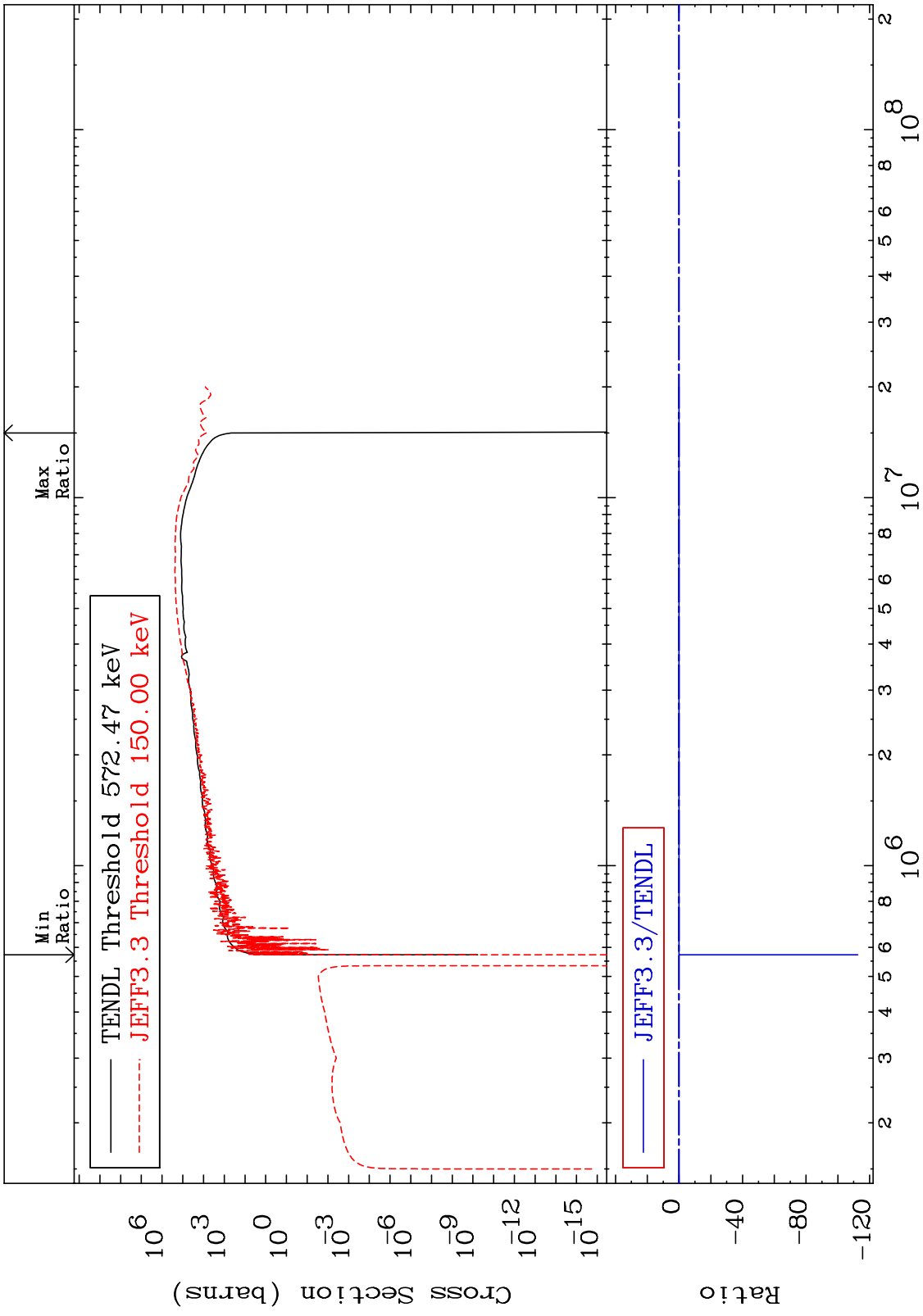
Kerma elastic
Cross Section

82-Pb-207
-77.60 To 286.5 %



MAT 8234 Kerma non-elastic (all but mt2) 82-Pb-207
 Cross Section -144.8 To 9999. %

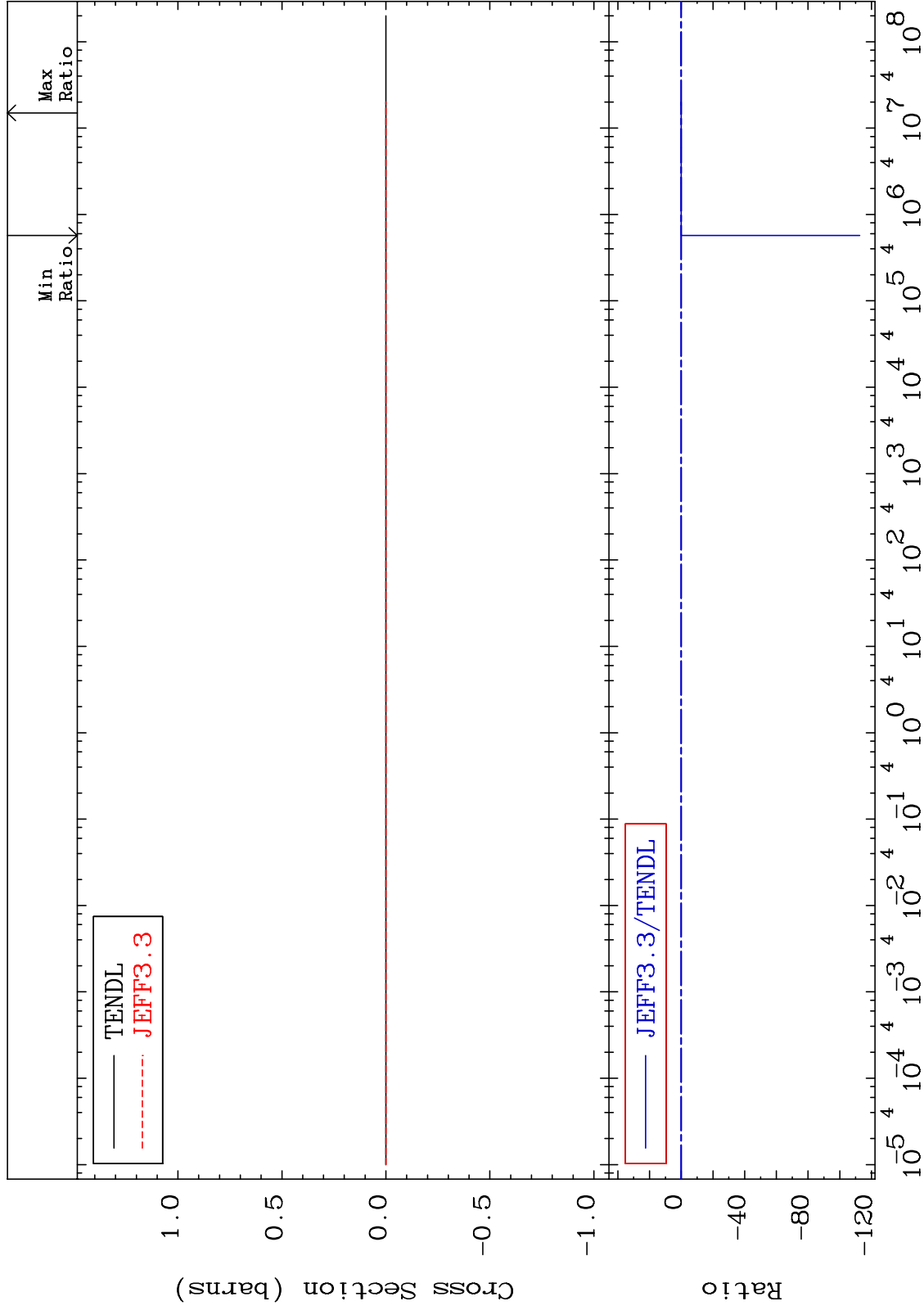




MAT 8234

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

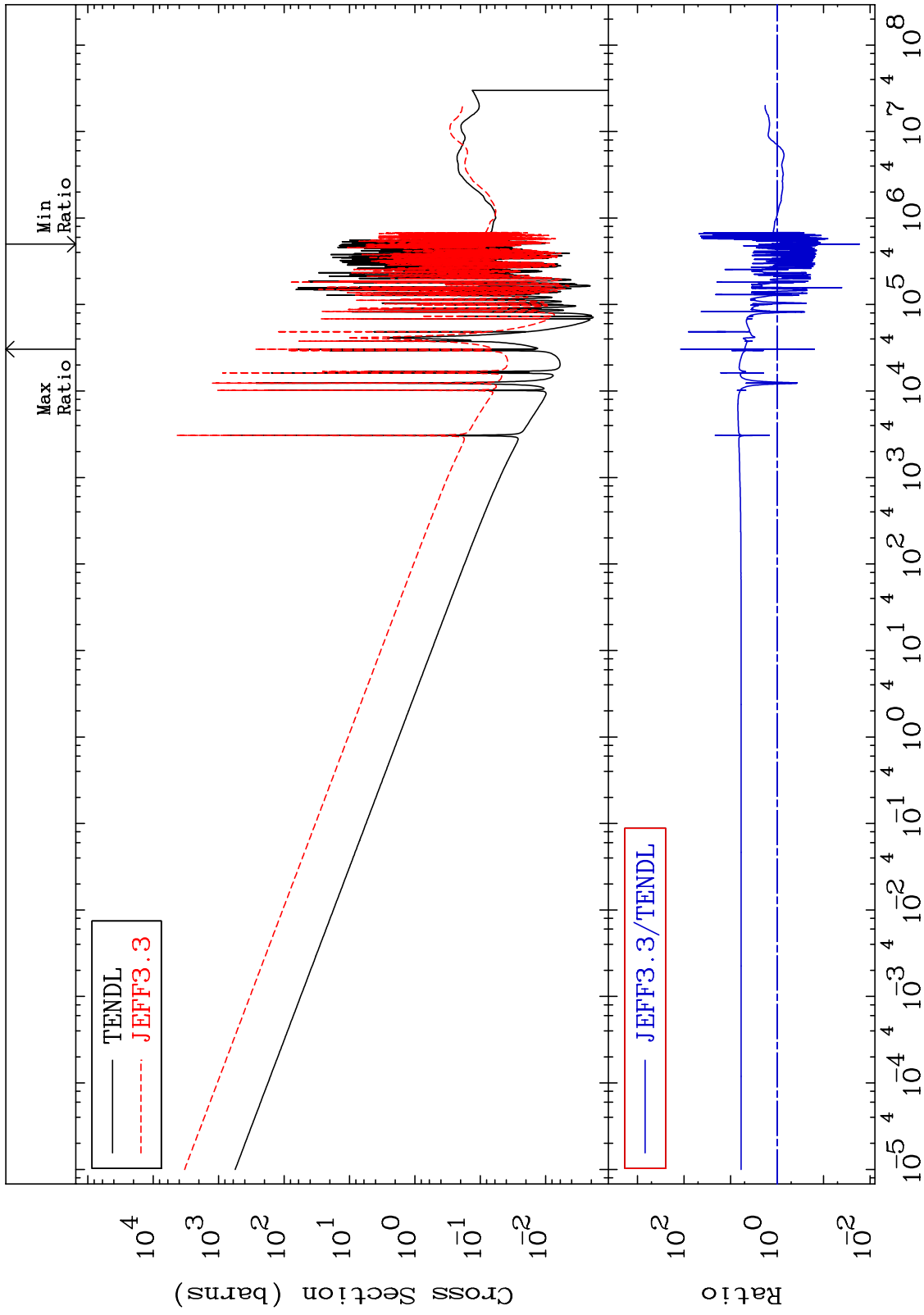
82-Pb-207
-9999. To 1698. %



MAT 8234

Kerma capture (mt102)
Cross Section

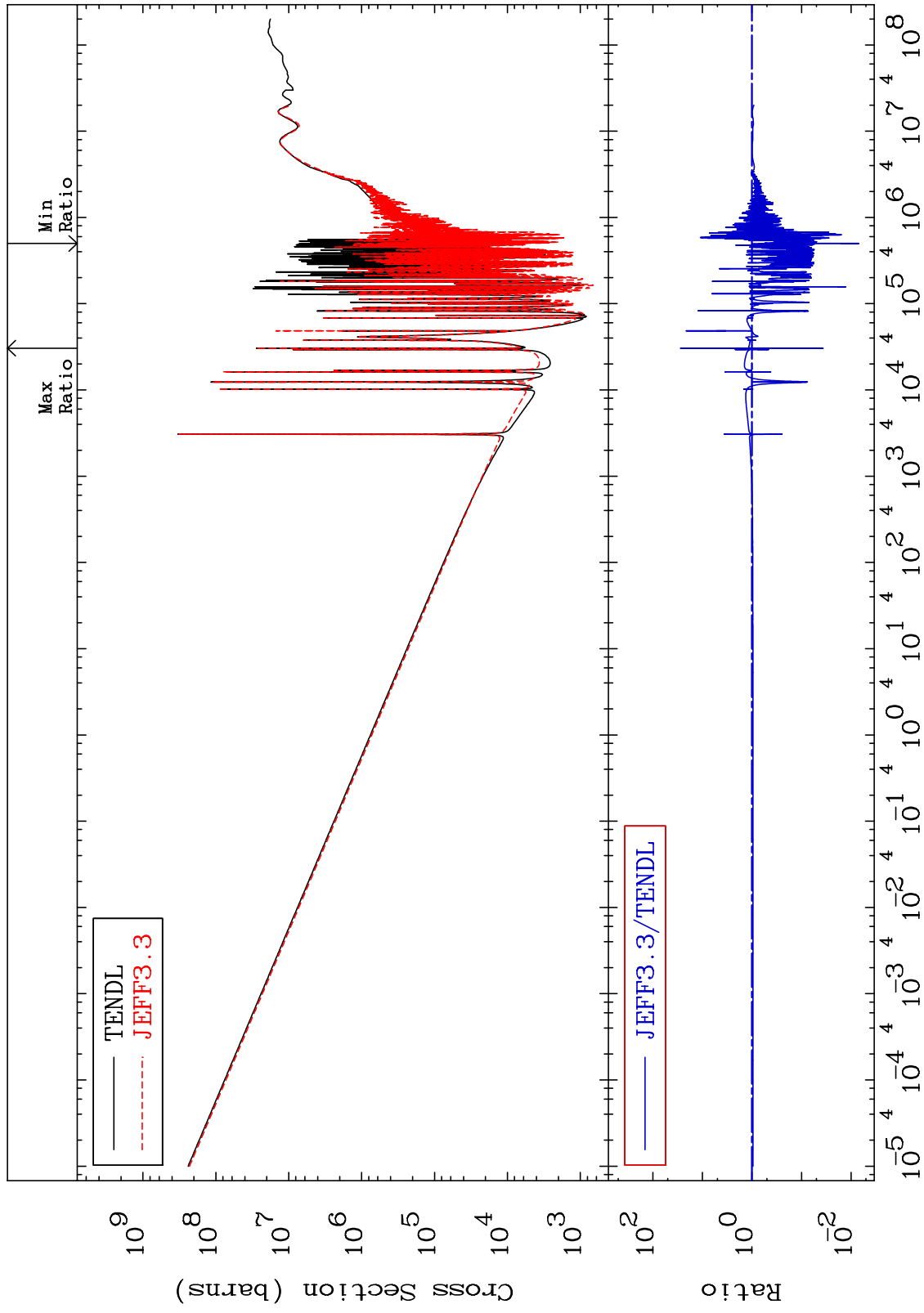
82-Pb-207
-98.32 To 9999. %



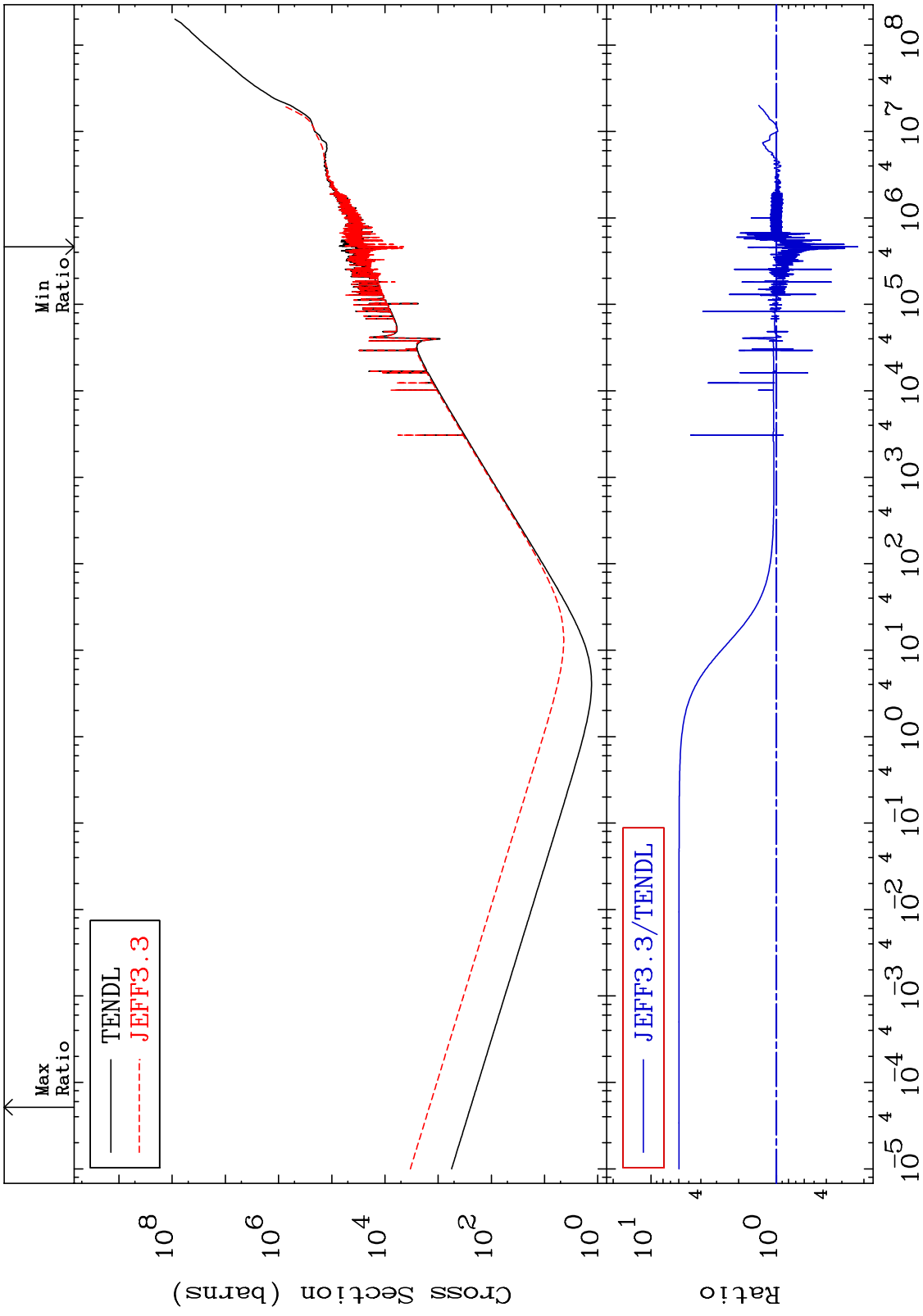
MAT 8234

Total photon (eV-barns)
Cross Section

82-Pb-207
-99.31 To 2654. %



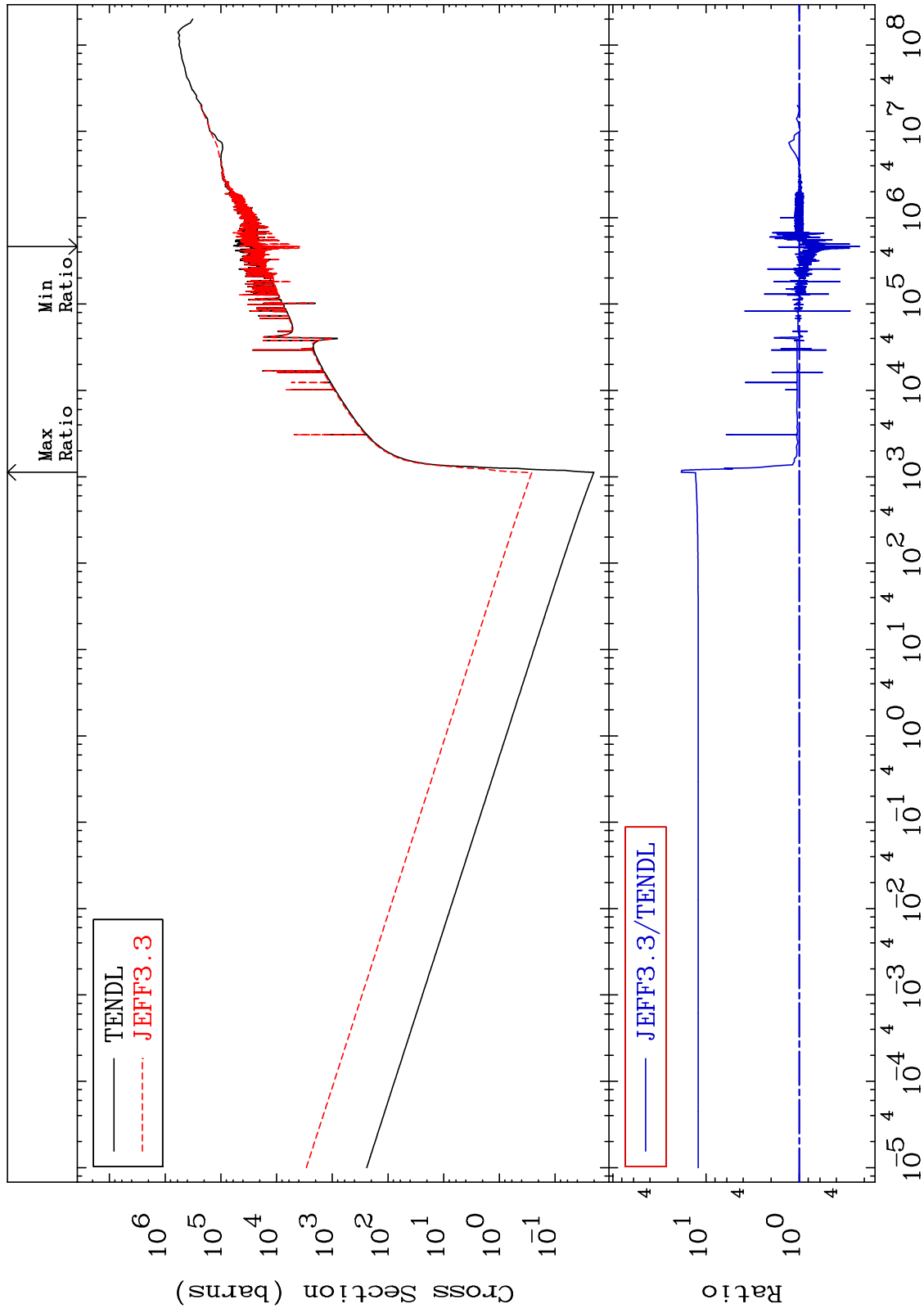
MAT 8234 Total kinematic kerma (high limit) 82-Pb-207
 Cross Section -77.60 To 497.2 %



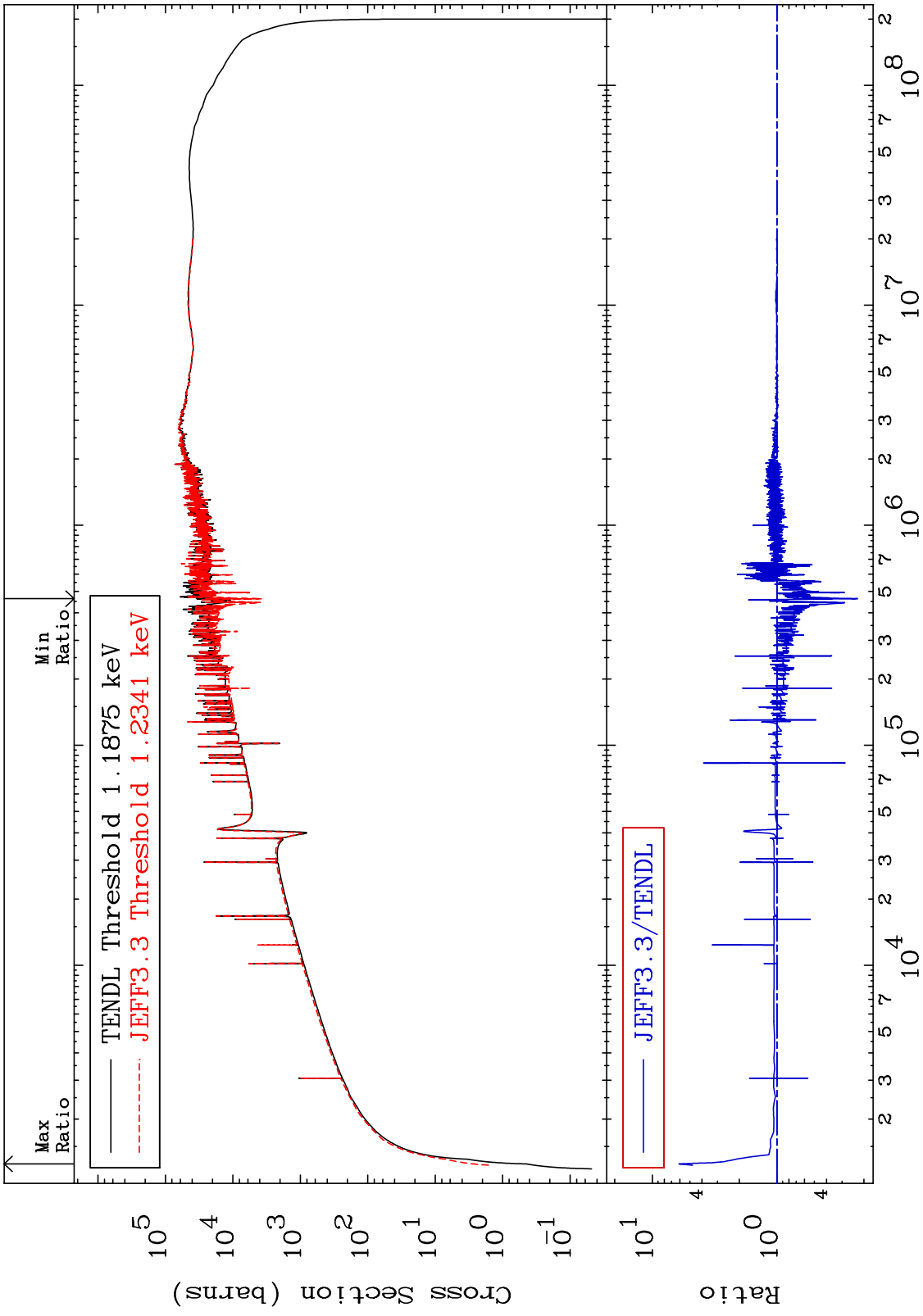
MAT 8234

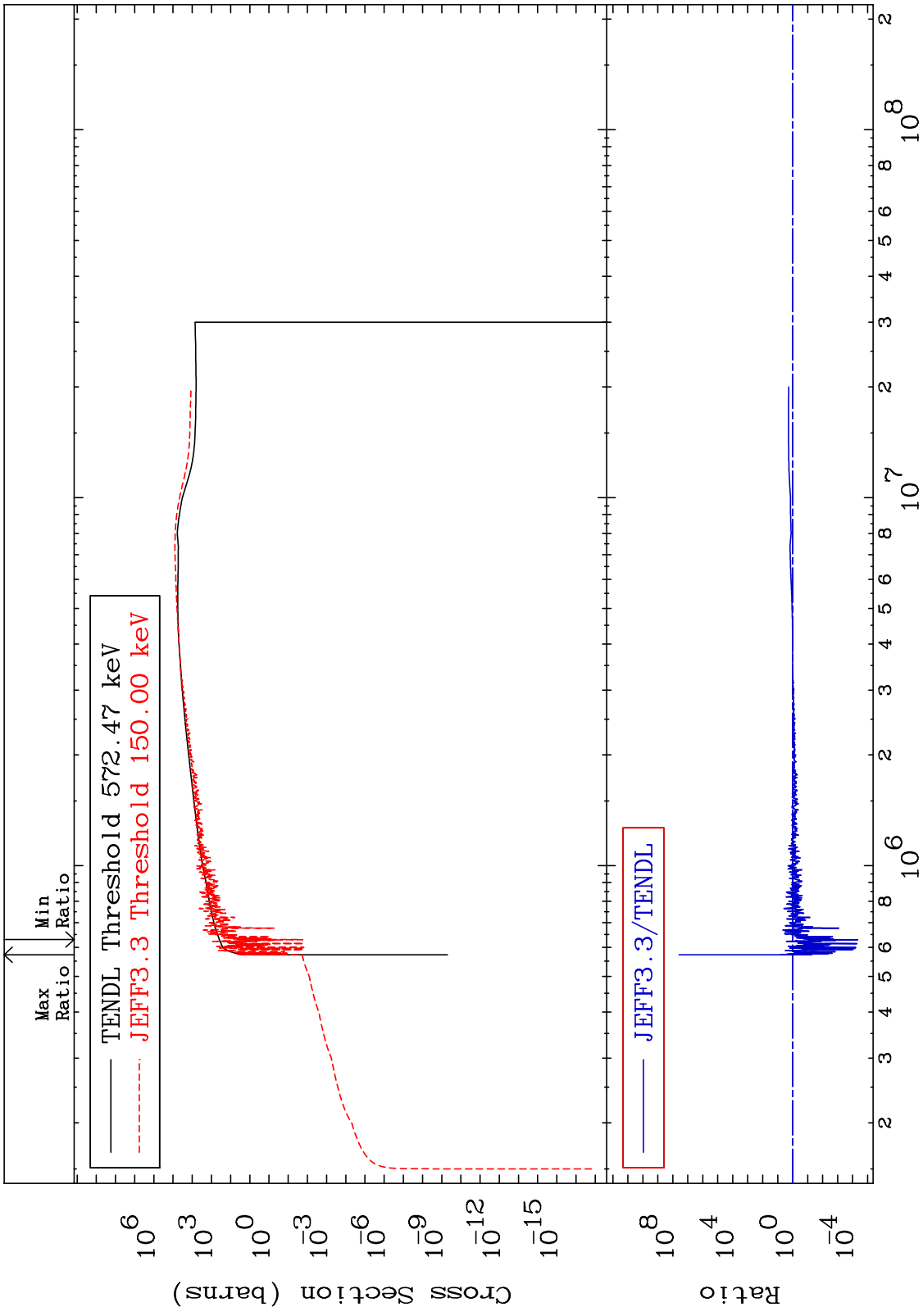
Dpa total (eV-barns)
Cross Section

82-Pb-207
-77.60 To 1744. %



MAT 8234 Dpa elastic (mt2) 82-Pb-207
 Cross Section -77.60 To 509.9 %

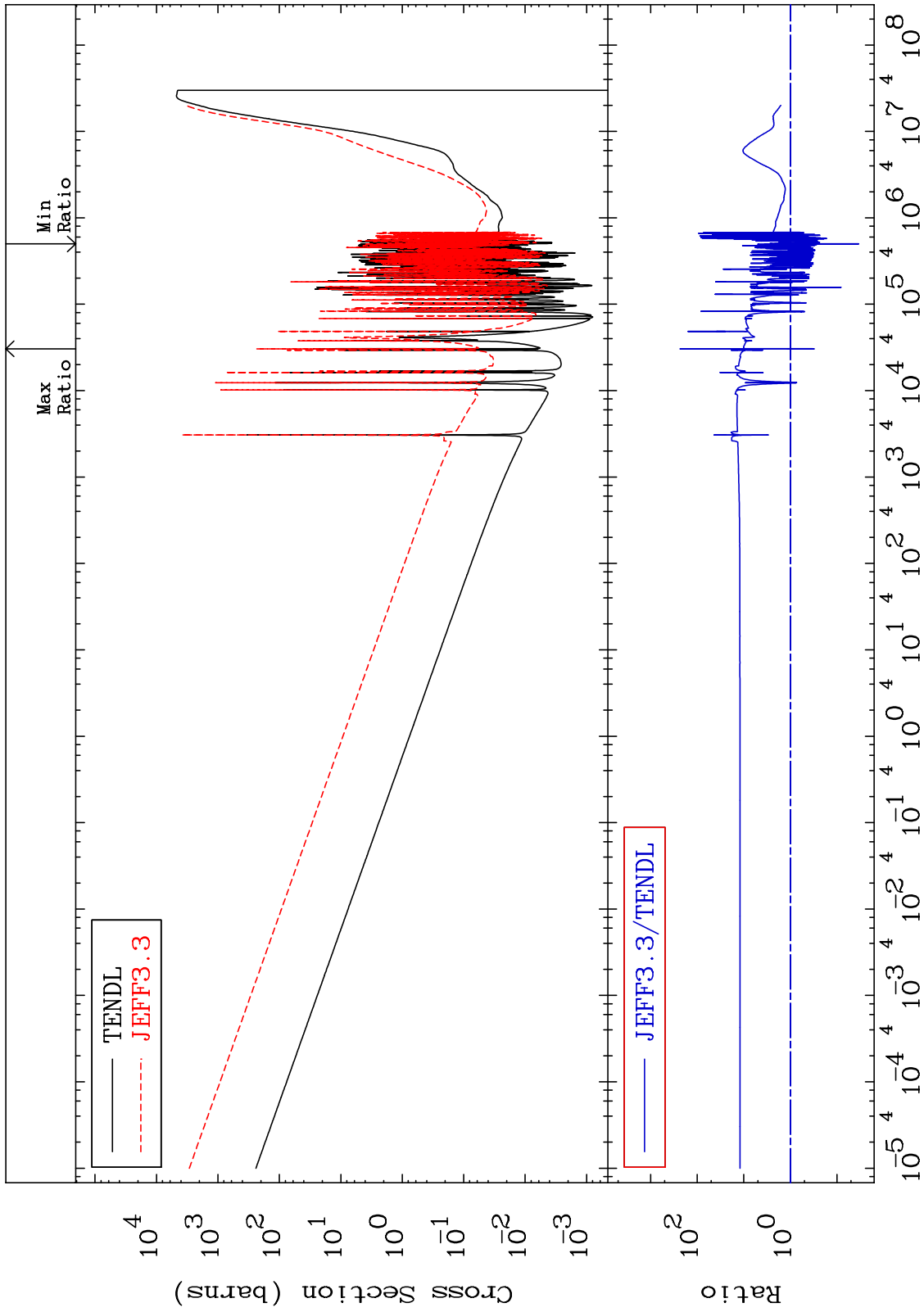




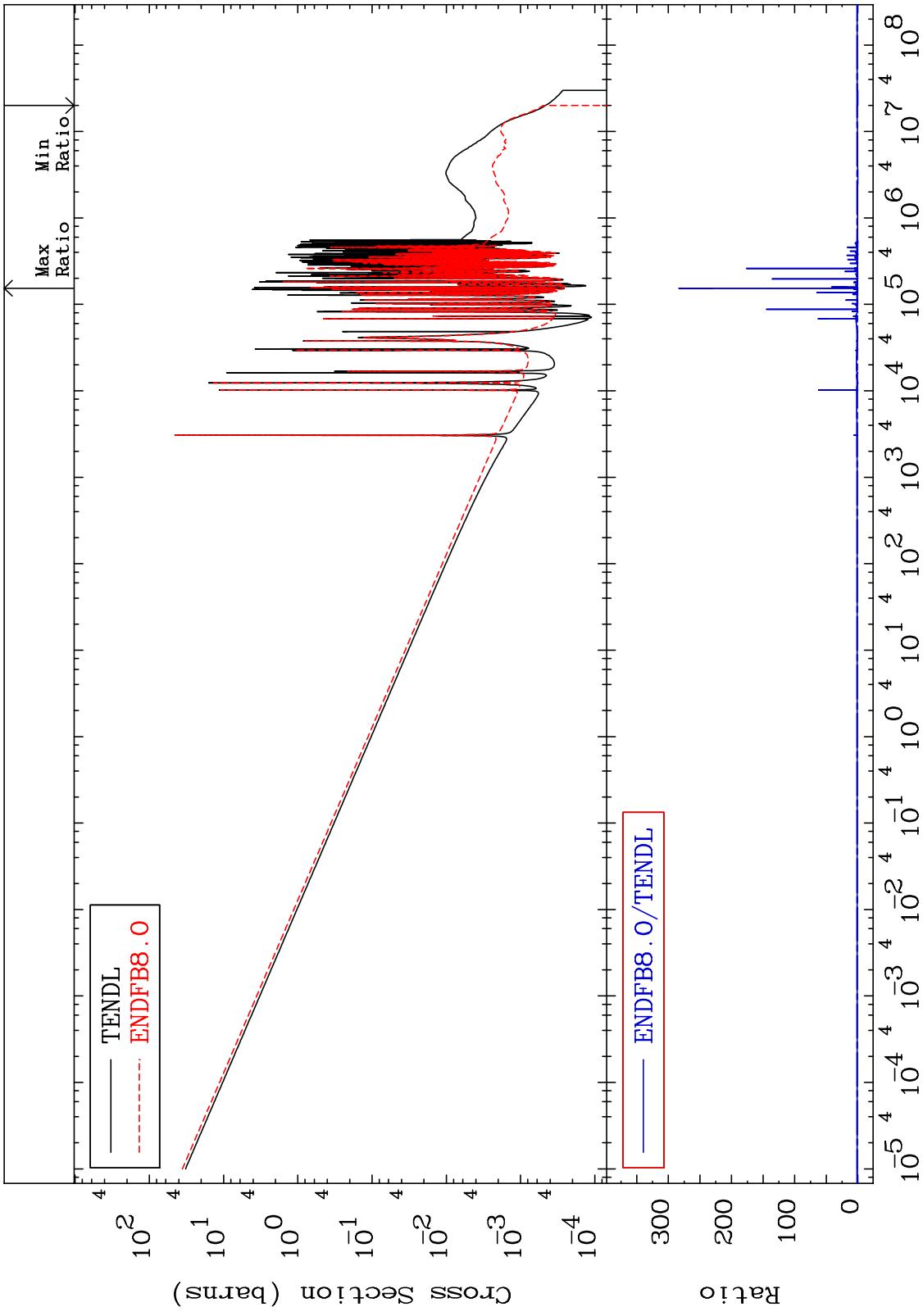
MAT 8234

Dpa disappearance (mt102 -120)
Cross Section

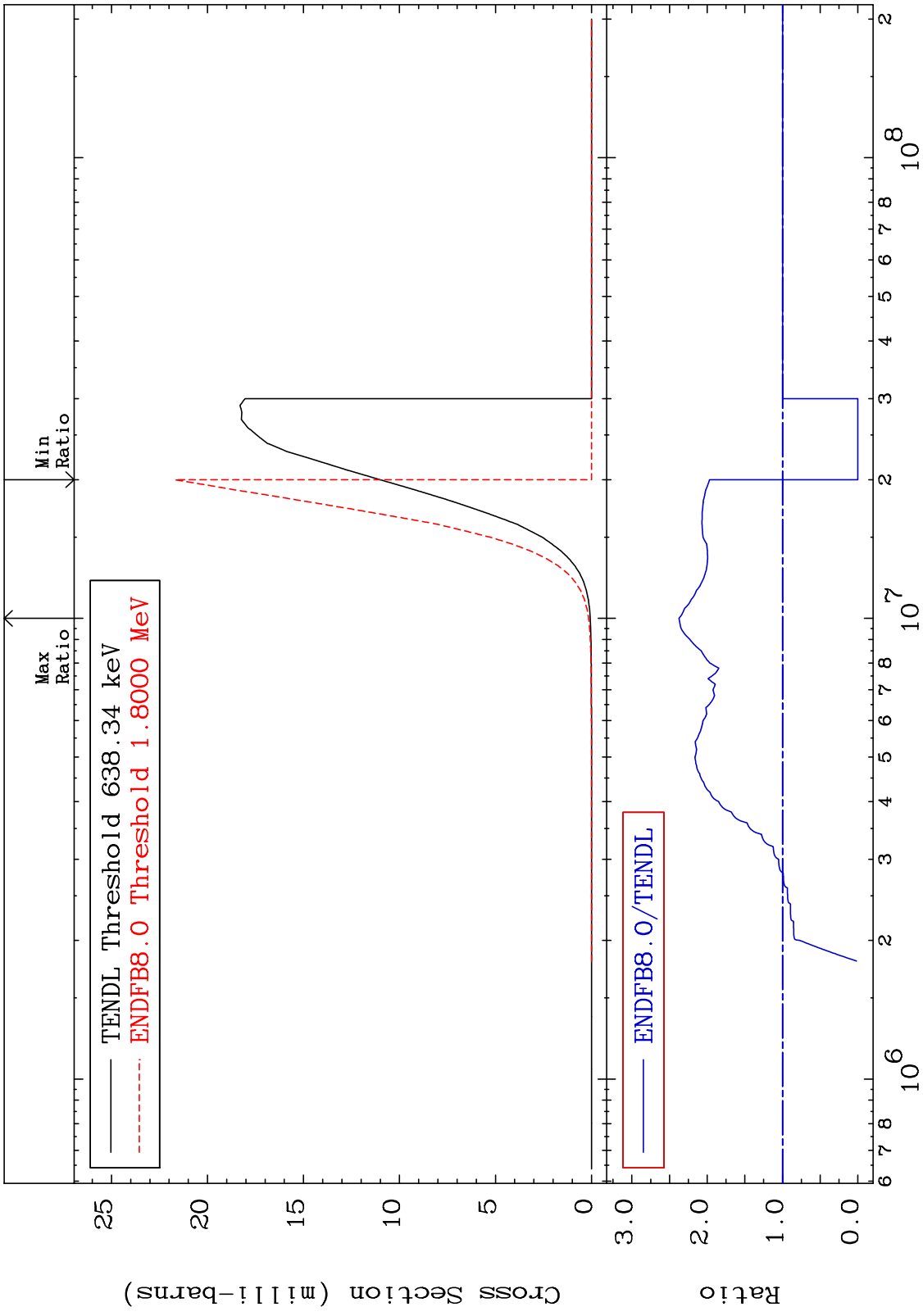
82-Pb-207
-96.61 To 9999. %



MAT 8234 (n, γ) 82-Pb-207
 Cross Section -100.0 To 9999. %



MAT 8234 (n,p) Cross Section 82-Pb-207 -100.0 To 137.3 %



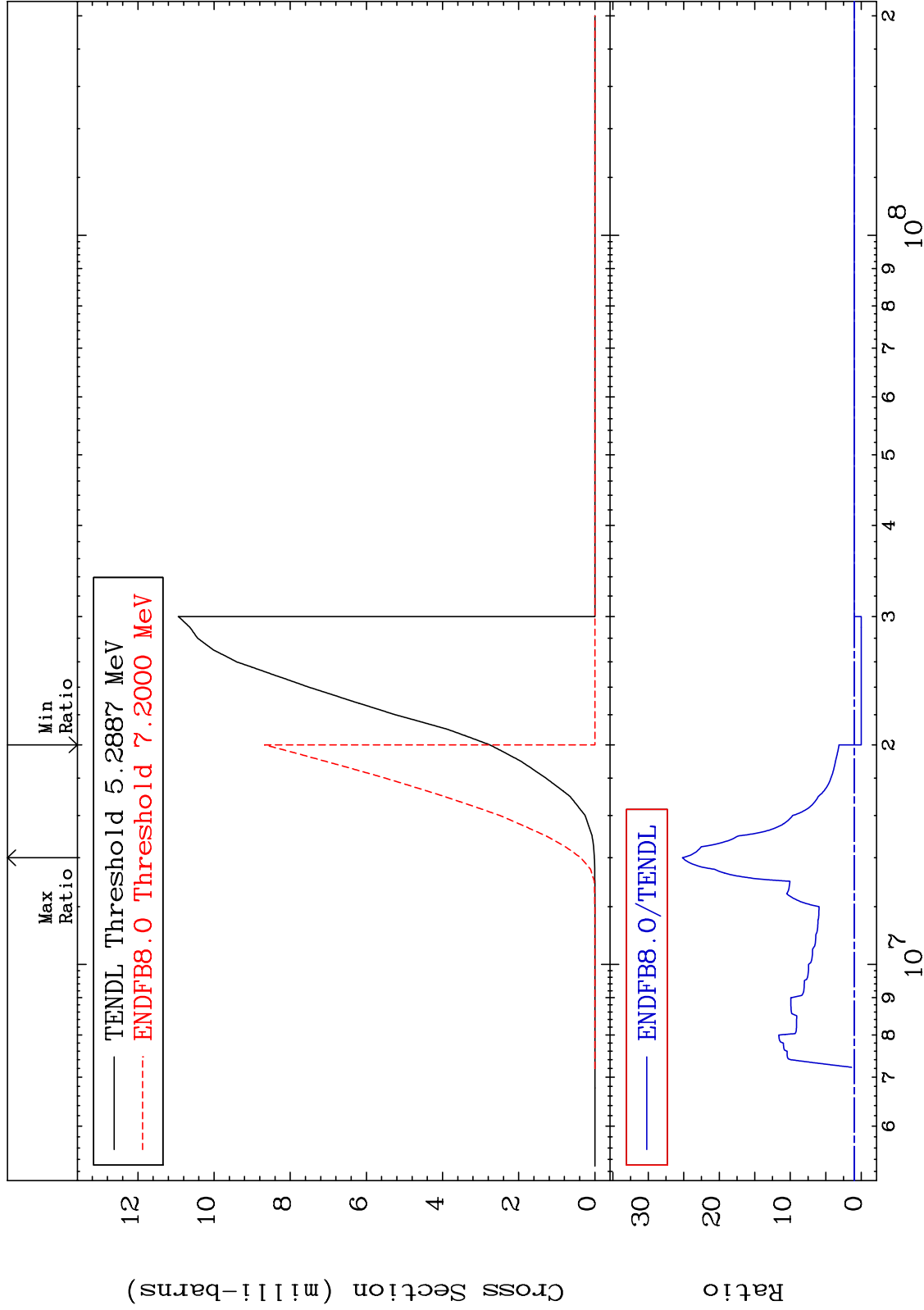
MAT 8234

(n,d)

82-Pb-207

Cross Section

-100.0 To 2418. %

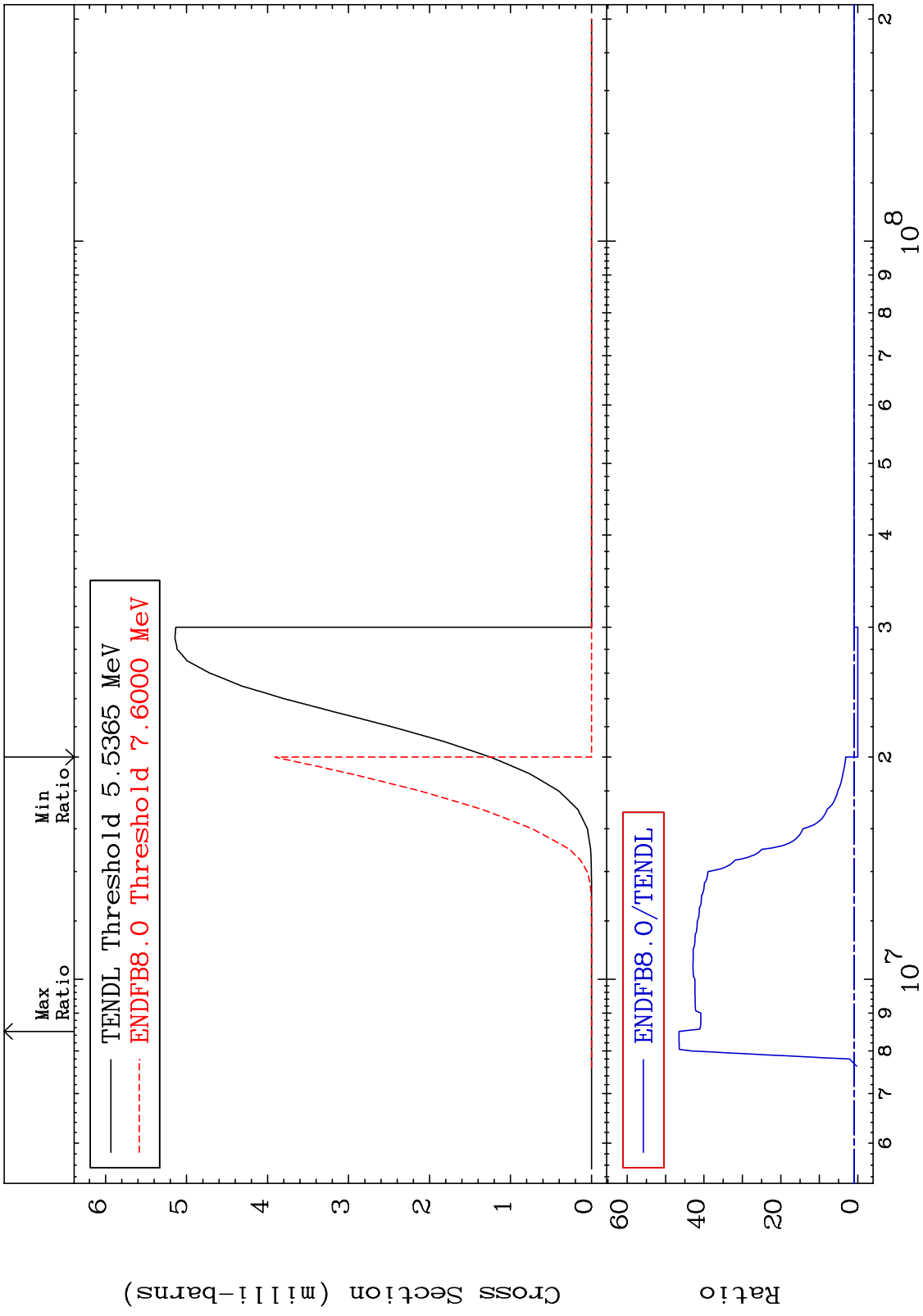


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Incident Energy (eV)

82-Pb-207

MAT 8234 (n,t) 82-Pb-207
 Cross Section -100.0 To 4549. %



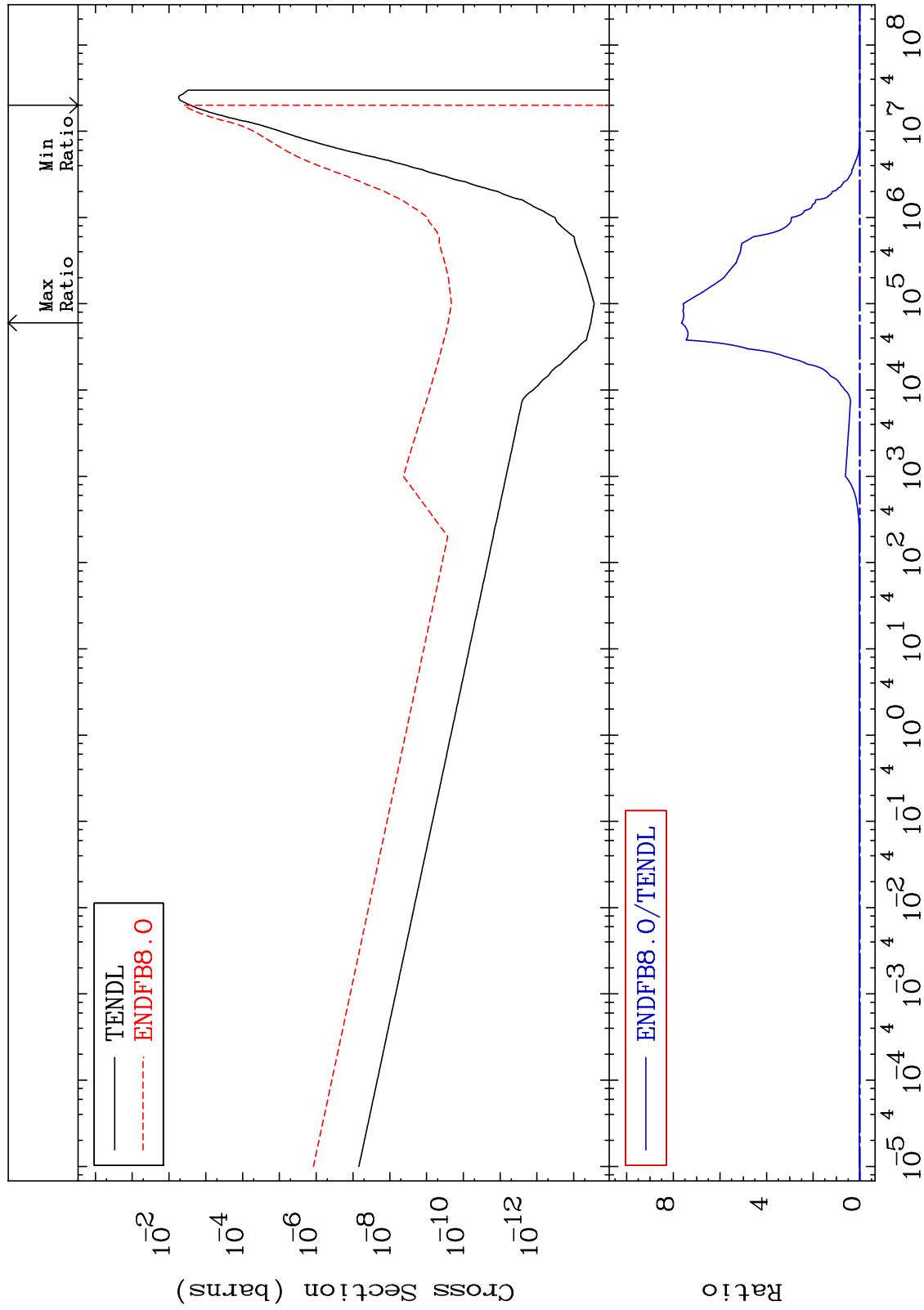
MAT 8234

(n, α)

82-Pb-207

Cross Section

-100.0 To 9999. %



38

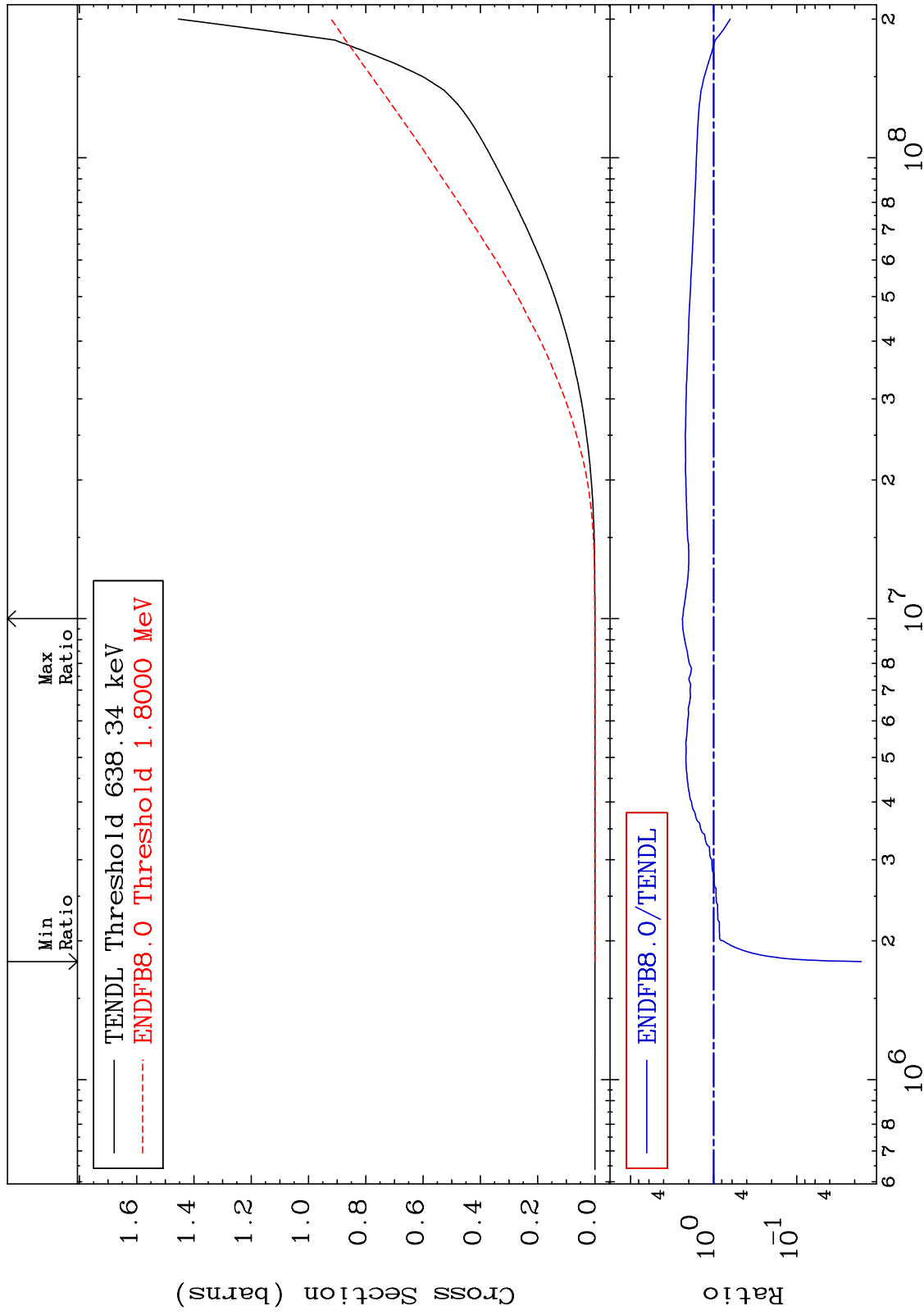
Incident Energy (eV)

82-Pb-207

MAT 8234

Hydrogen Production
Cross Section

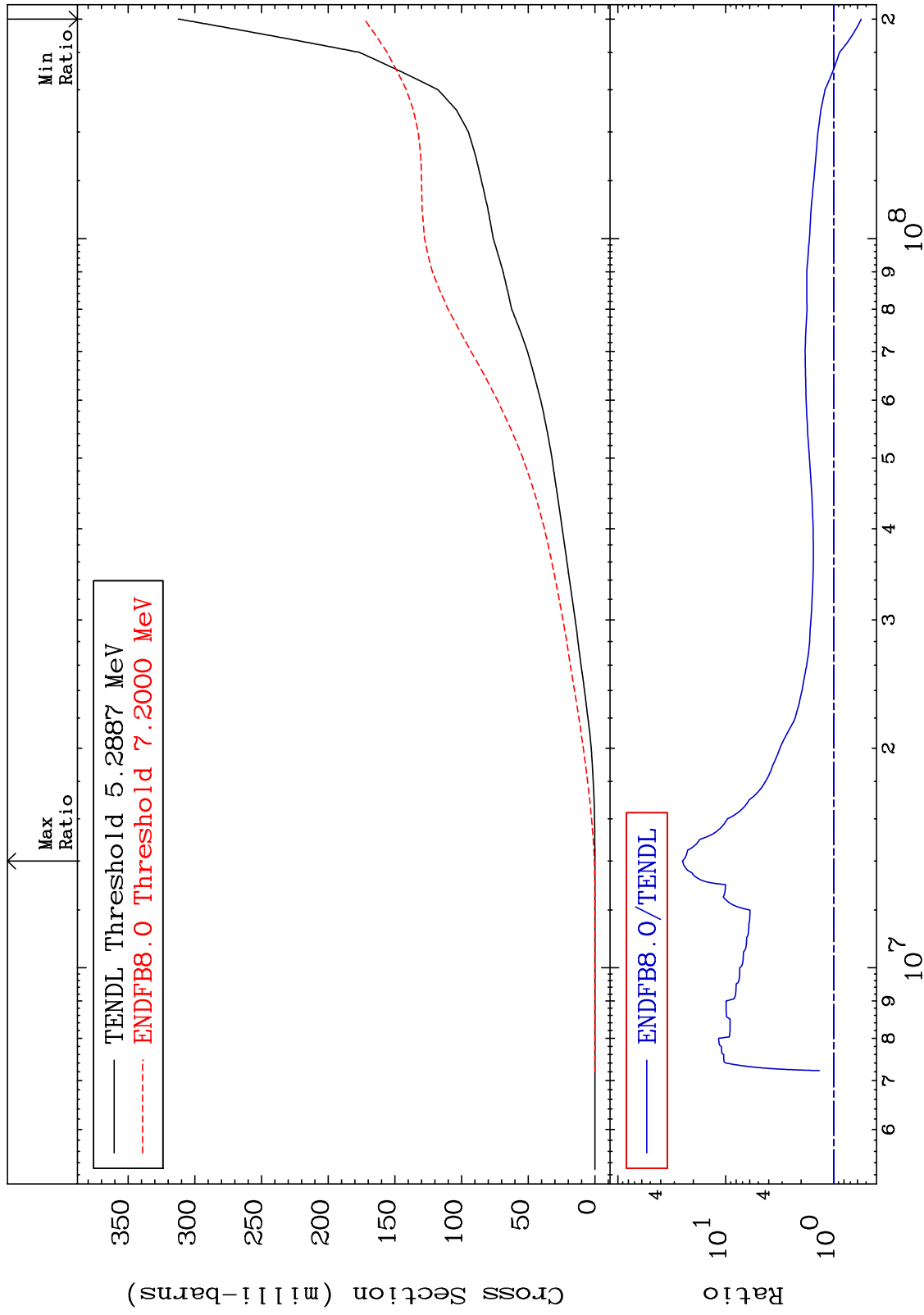
82-Pb-207
-98.33 To 137.3 %



MAT 8234

Deuterium Production
Cross Section

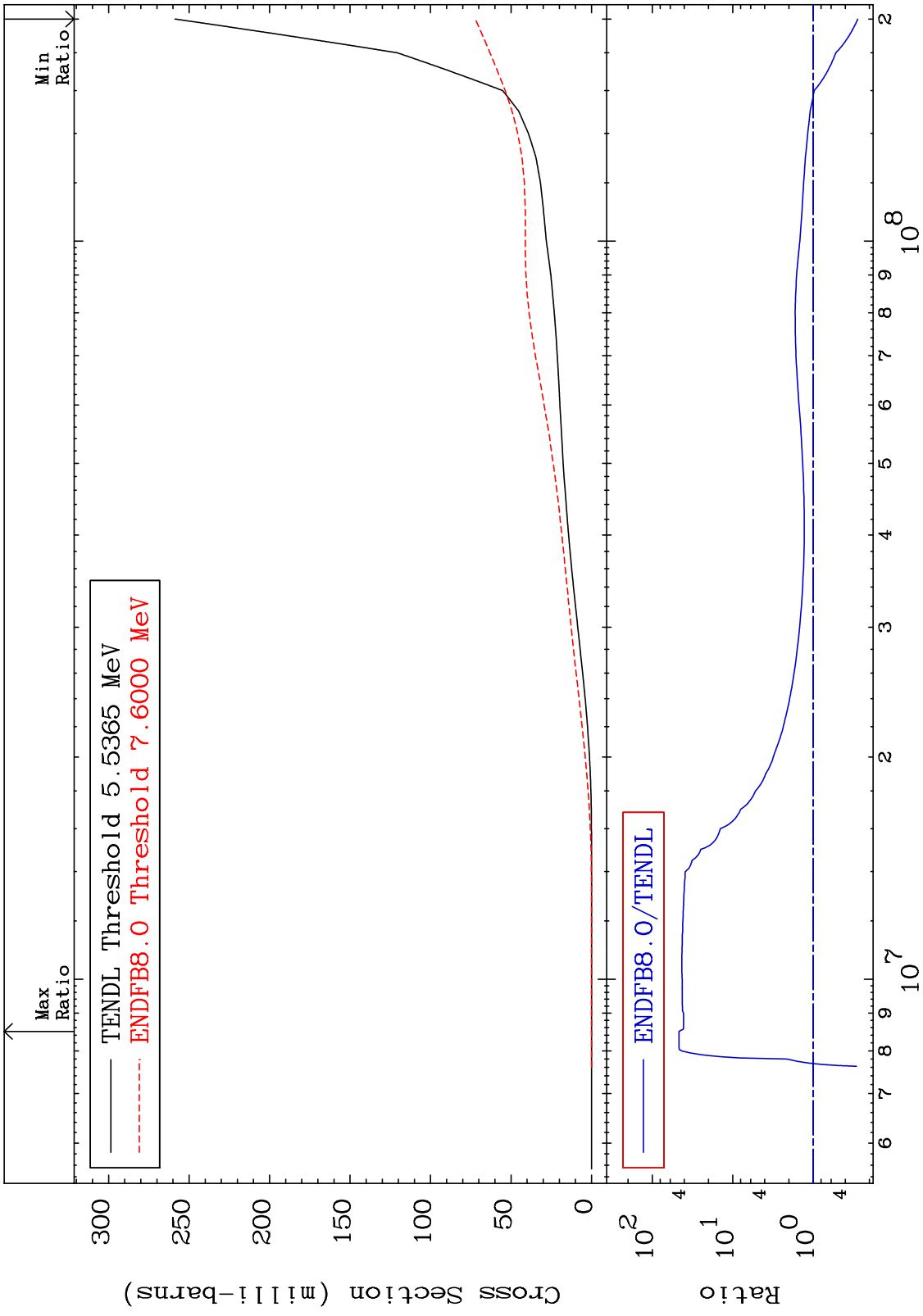
82-Pb-207
-44.63 To 2418. %



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82-Pb-207

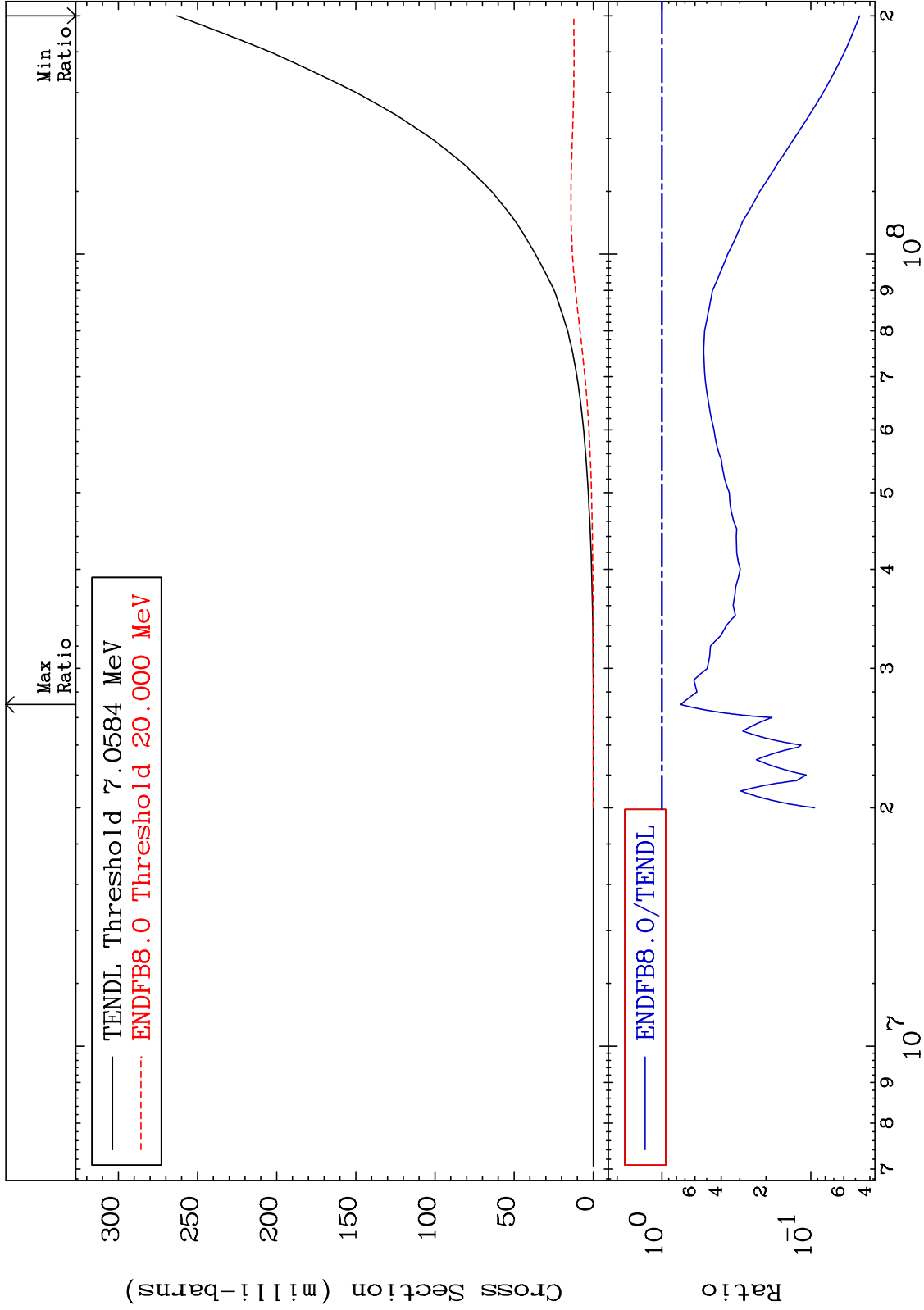
MAT 8234 Tritium Production Cross Section 82-Pb-207
 -72.10 To 4549. %



MAT 8234

He-3 Production
Cross Section

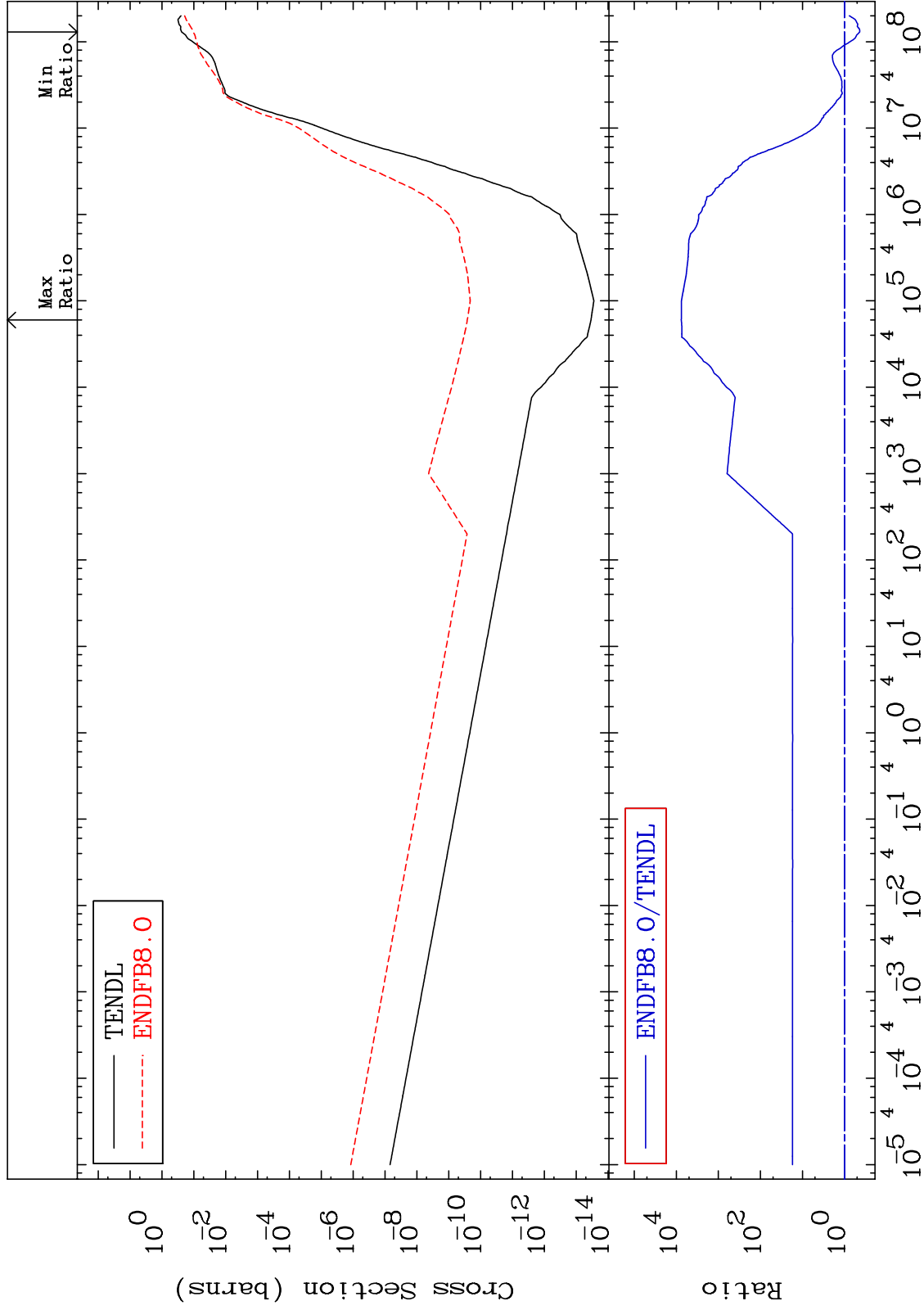
82-Pb-207
-95.31 To -25.34%



MAT 8234

He-4 Production
Cross Section

82-Pb-207
-56.78 To 9999. %



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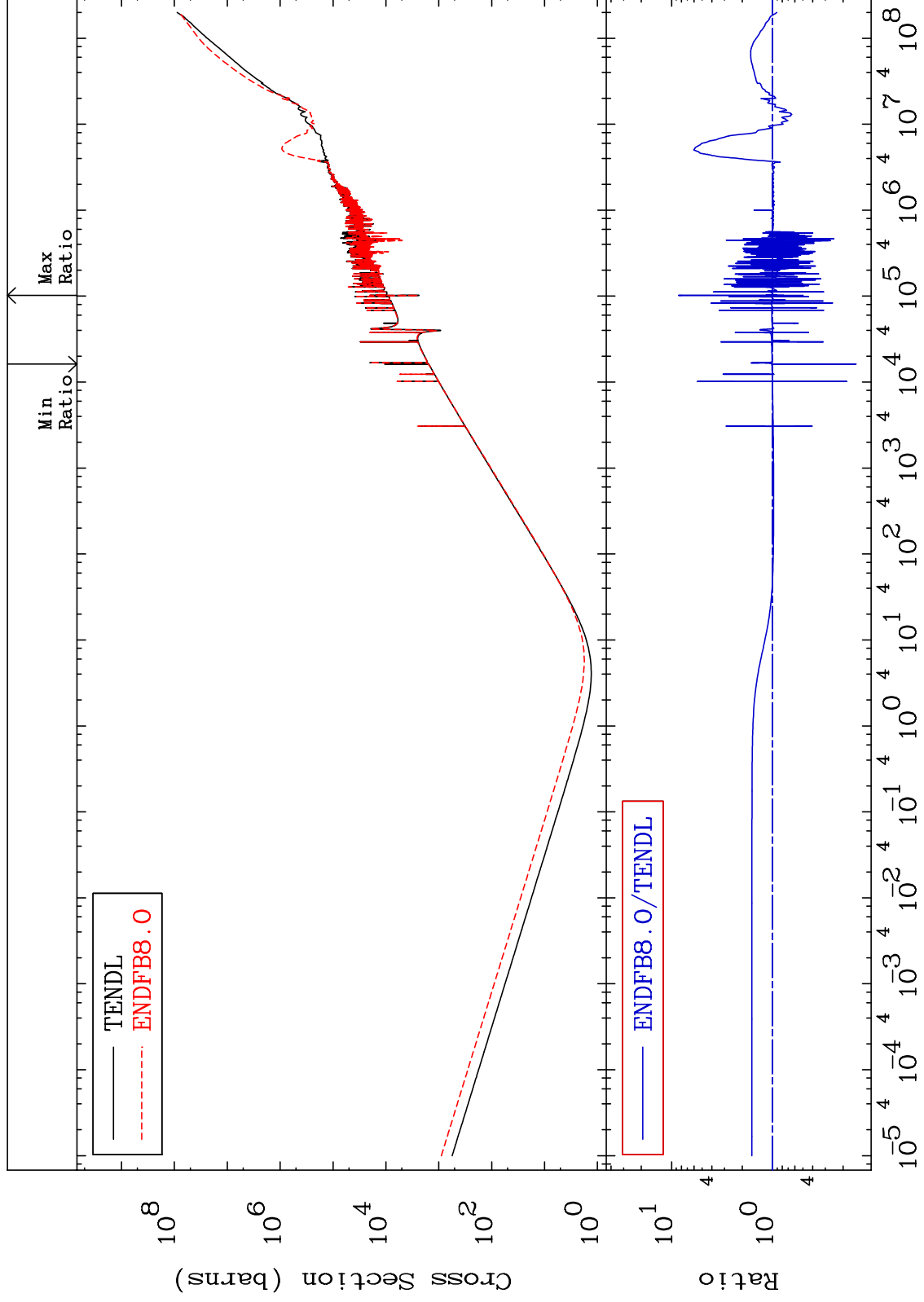
Incident Energy (eV)

82-Pb-207

MAT 8234

Kerma total (eV-barns)
Cross Section

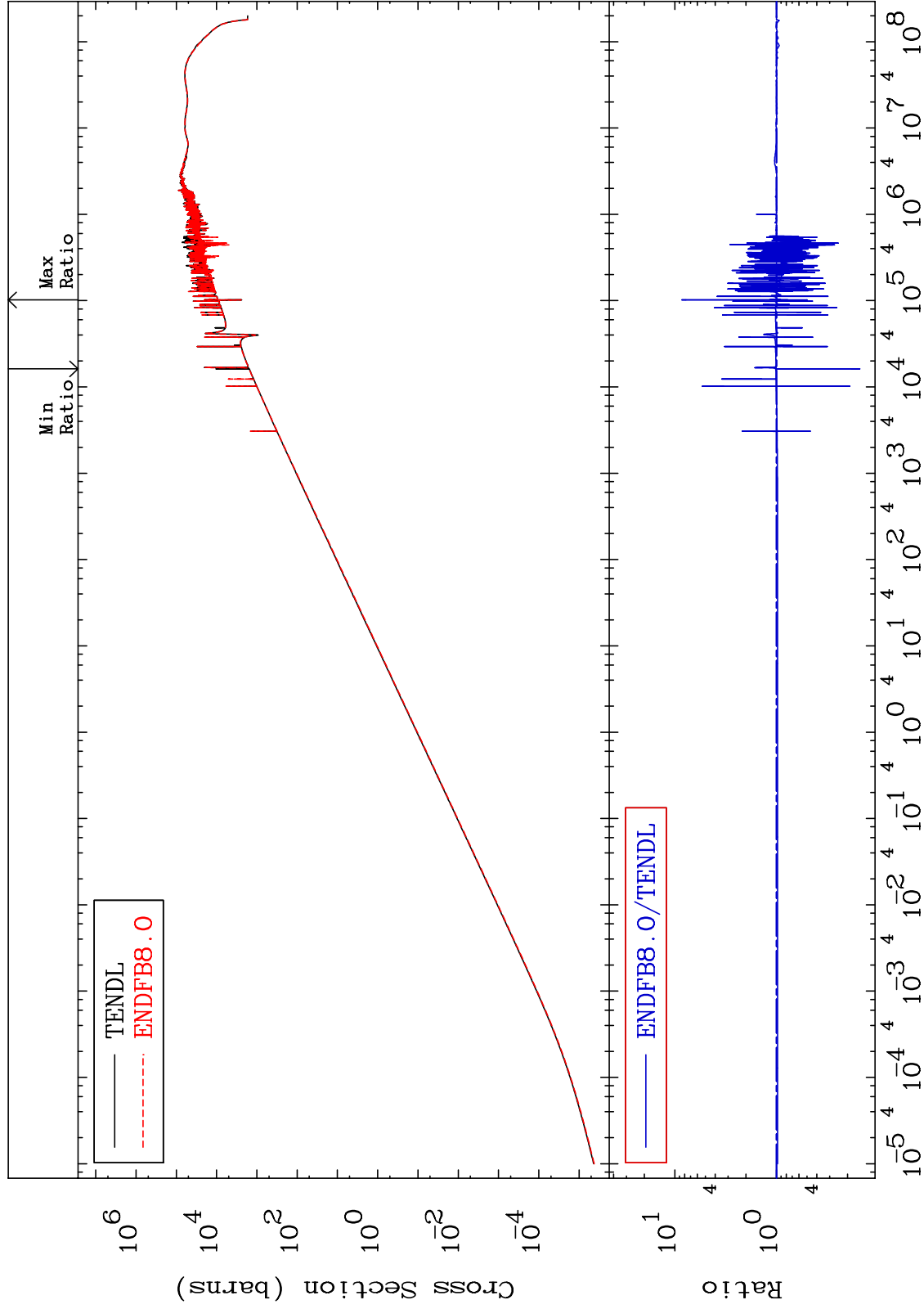
82-Pb-207
-85.10 To 760.8 %



MAT 8234

Kerma elastic
Cross Section

82-Pb-207
-84.87 To 760.9 %

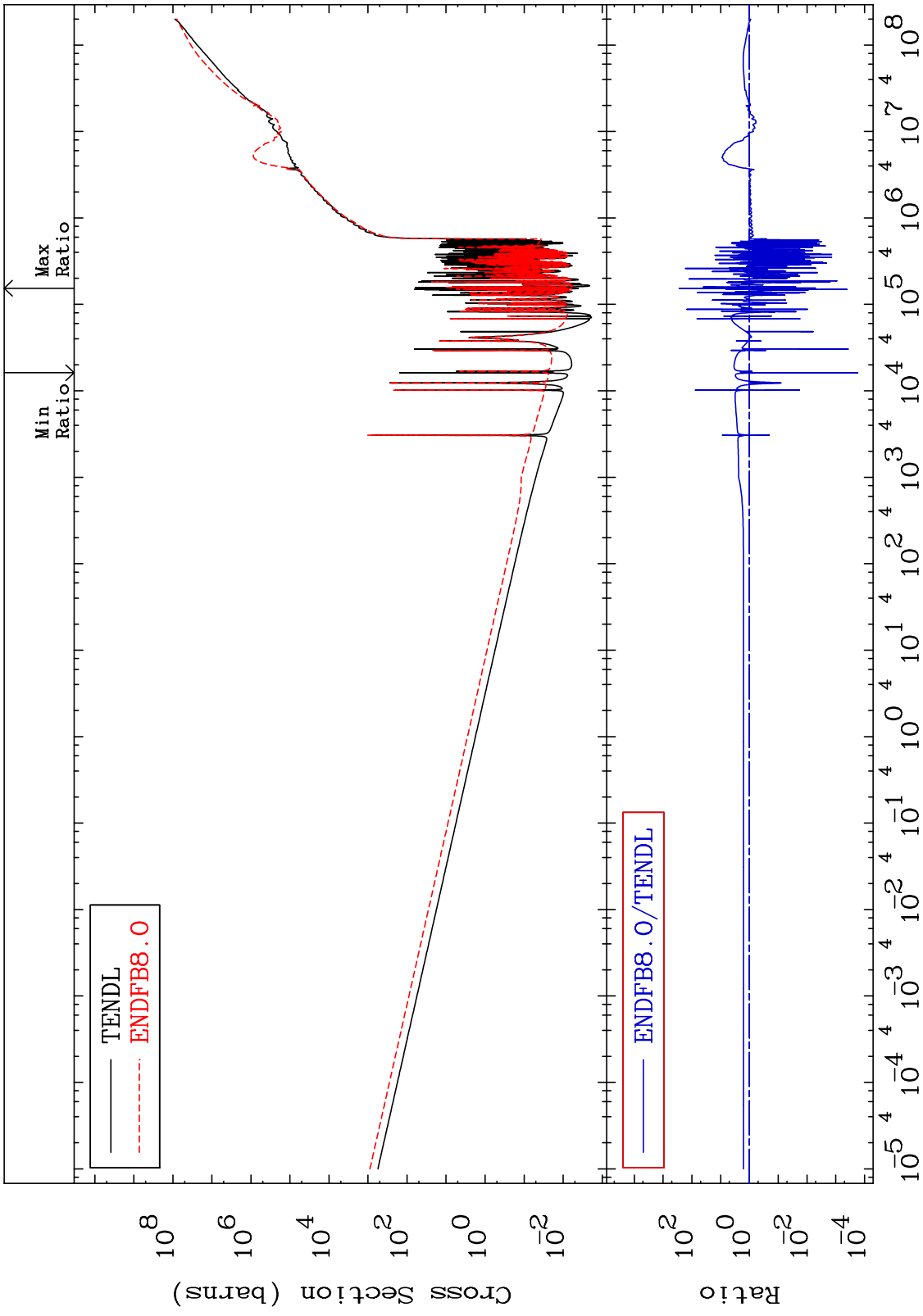


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Incident Energy (eV)

82-Pb-207

MAT 8234 Kerma non-elastic (all but mt2) 82-Pb-207
 Cross Section -99.98 To 9999. %

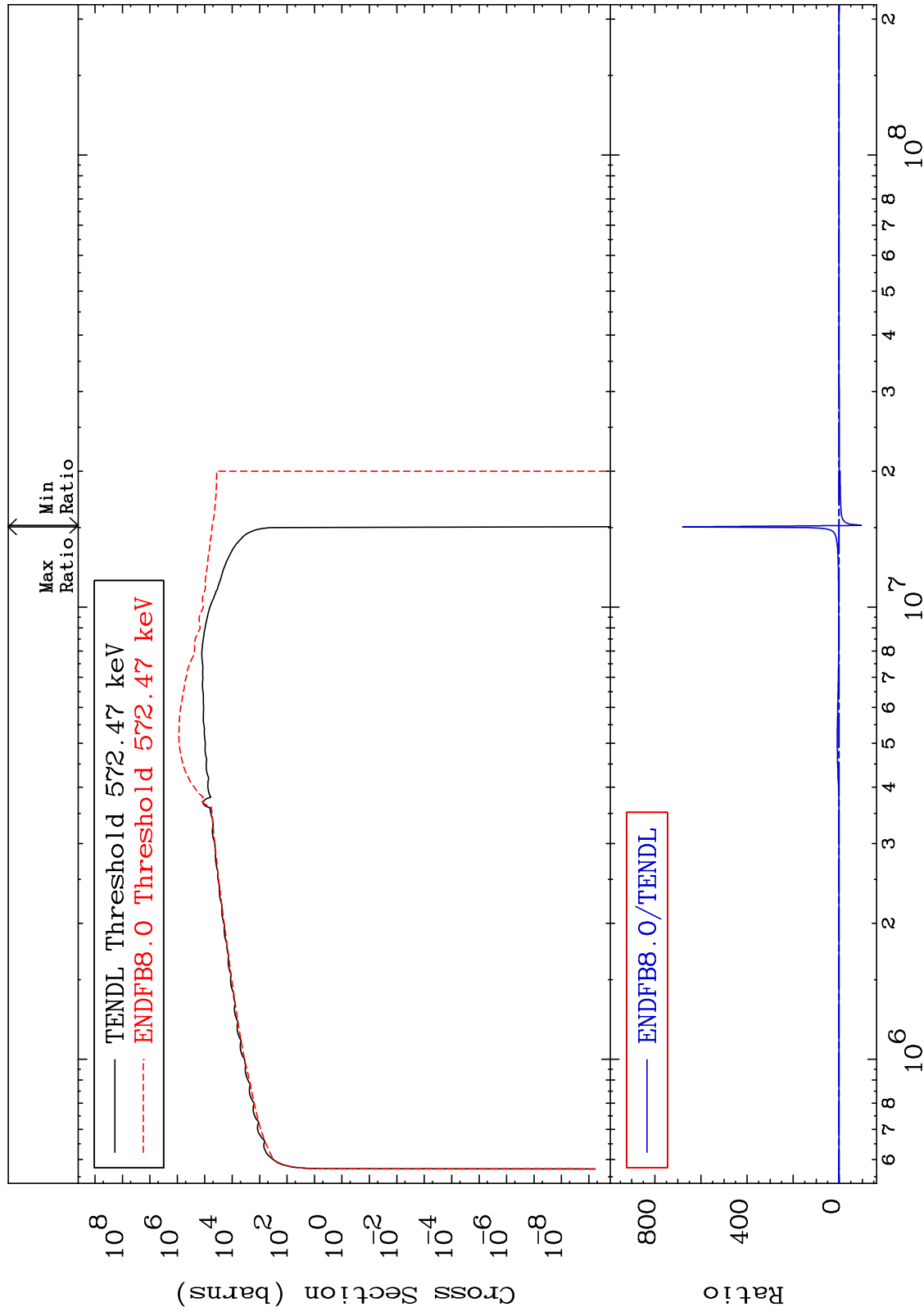


46 Incident Energy (eV) 82-Pb-207

MAT 8234

Kerma inelastic (mt51-91)
Cross Section

82-Pb-207
-9676. To 9999. %



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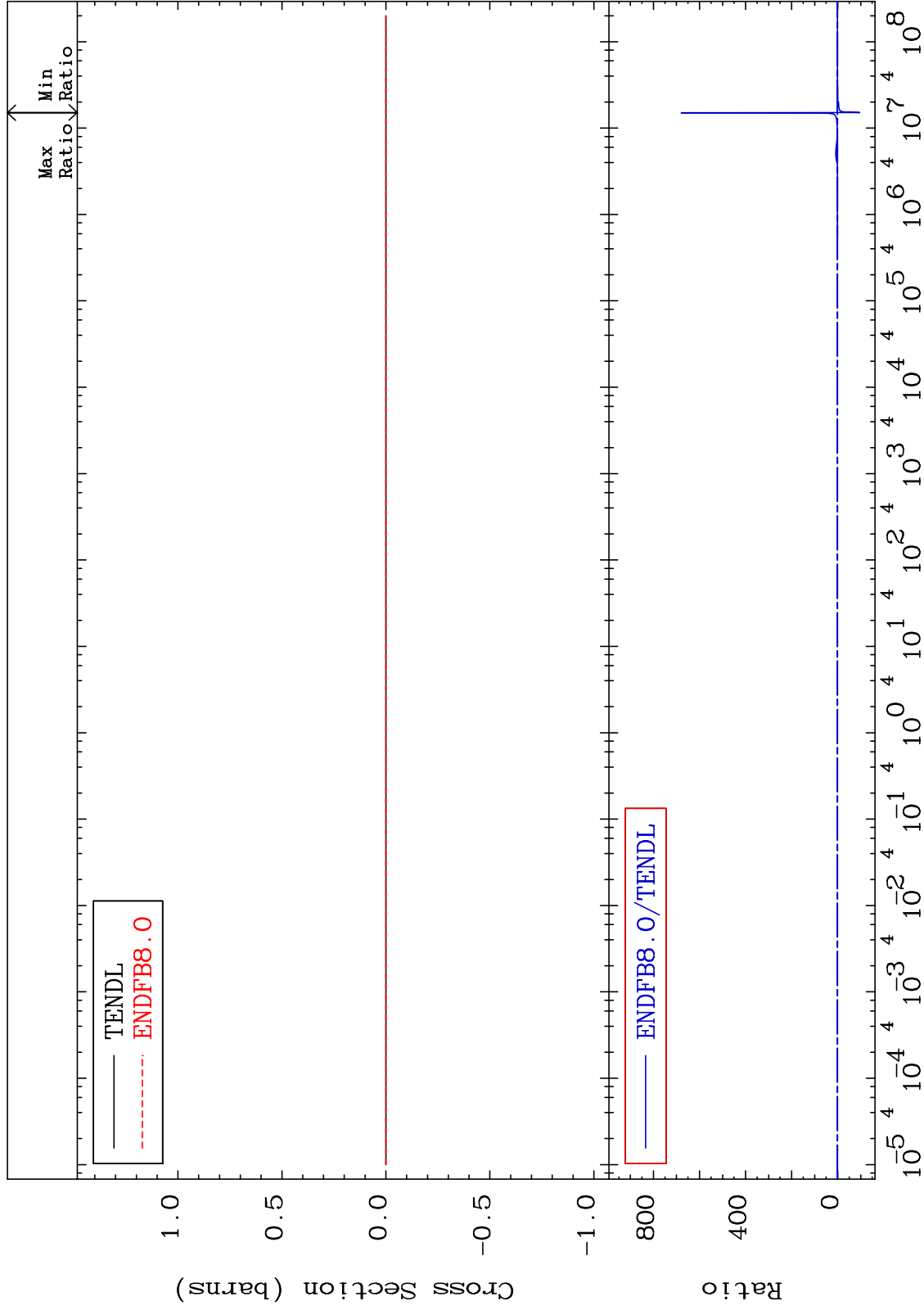
Incident Energy (eV)

82-Pb-207

MAT 8234

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

82-Pb-207
-9676. To 9999. %



48

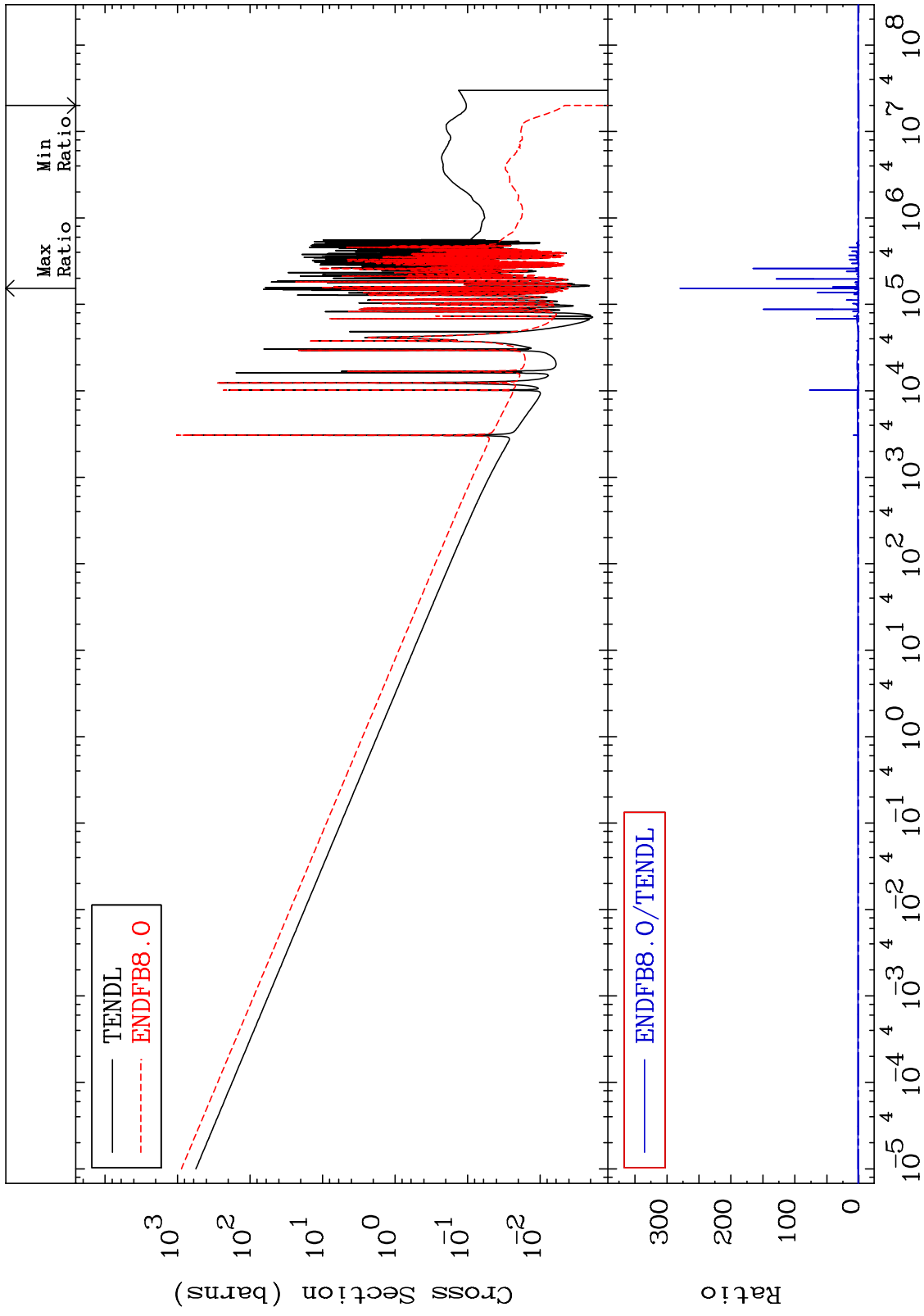
Incident Energy (eV)

82-Pb-207

MAT 8234

Kerma capture (mt102)
Cross Section

82-Pb-207
-100.0 To 9999. %



49

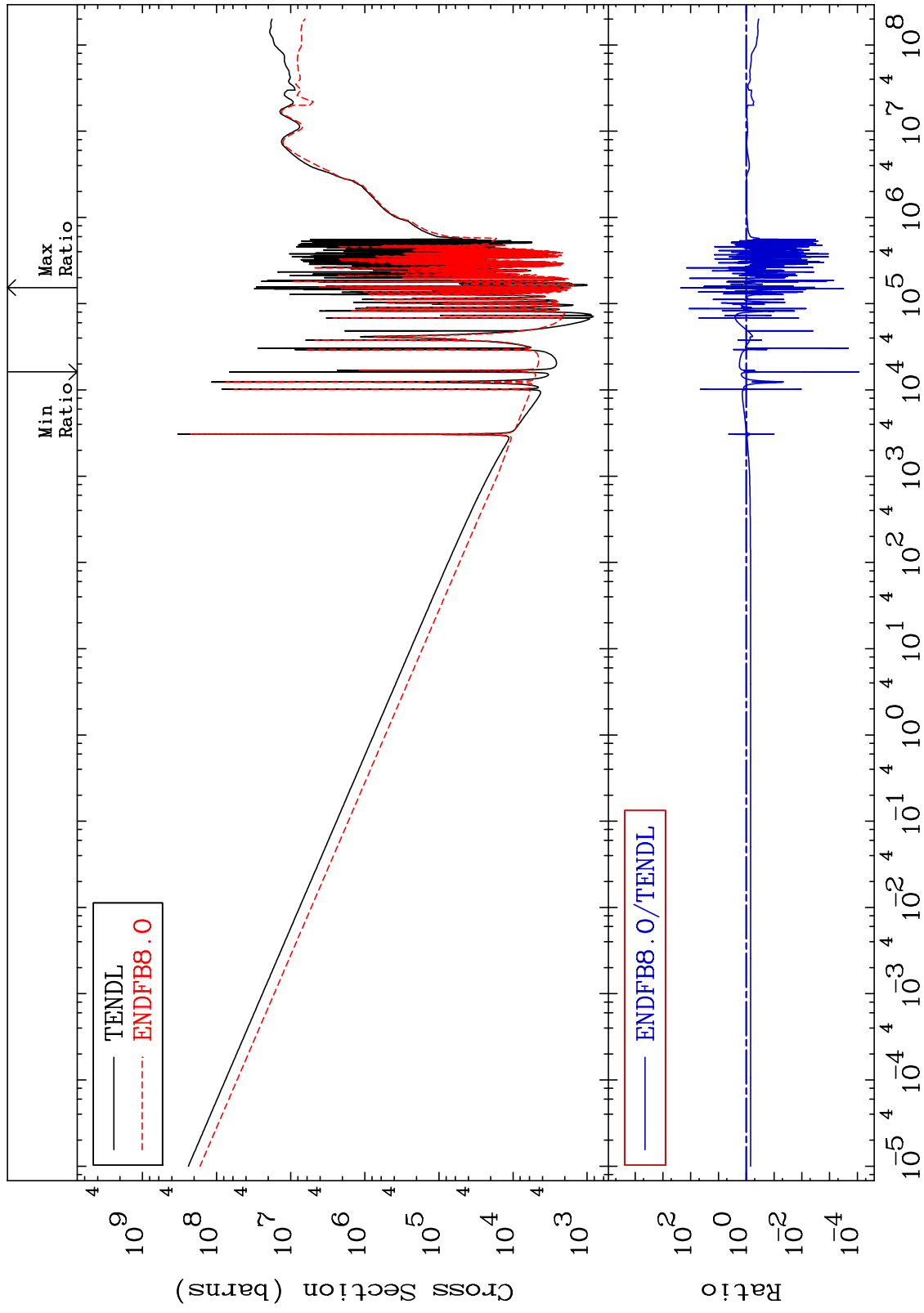
Incident Energy (eV)

82-Pb-207

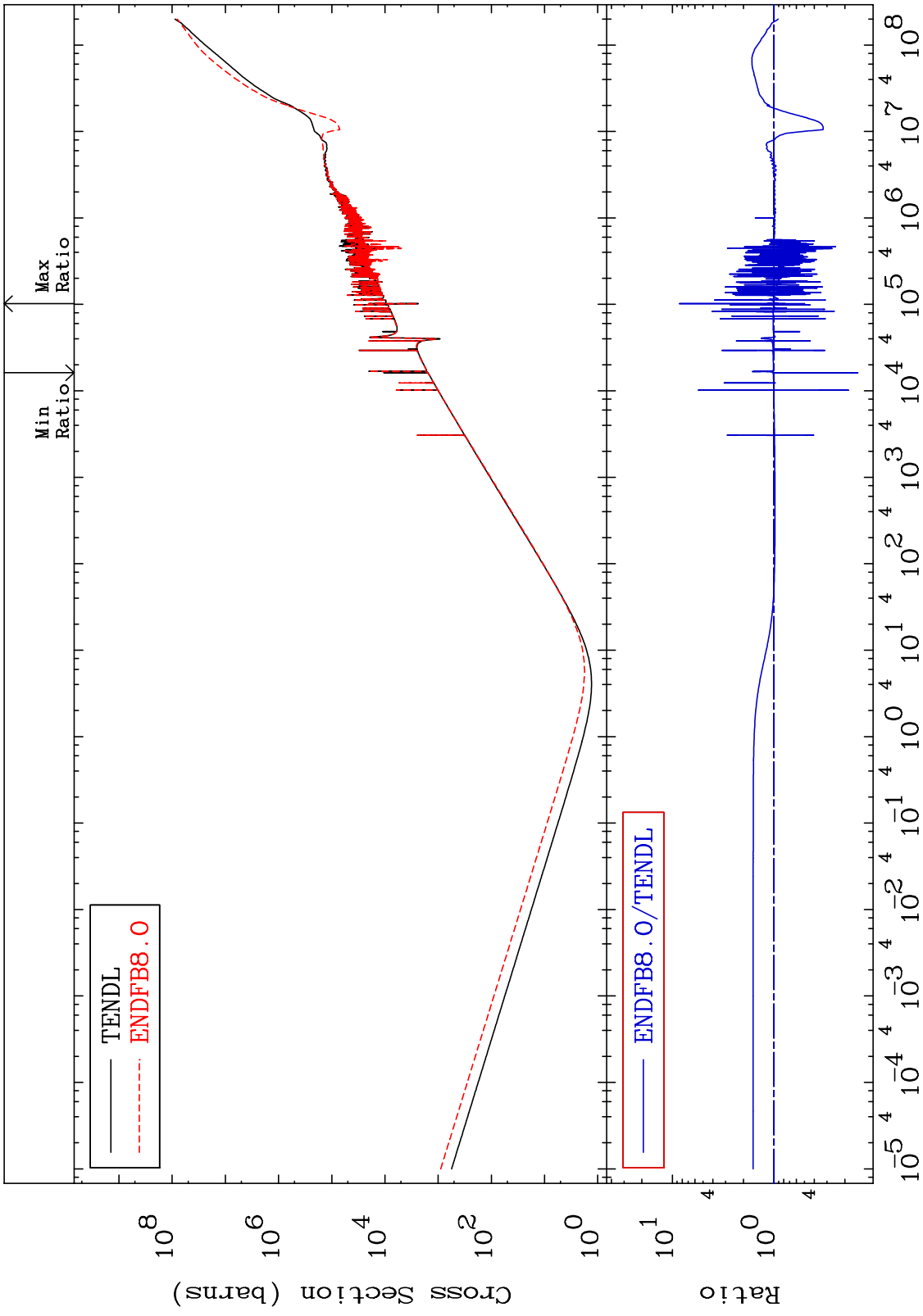
MAT 8234

Total photon (eV-barns)
Cross Section

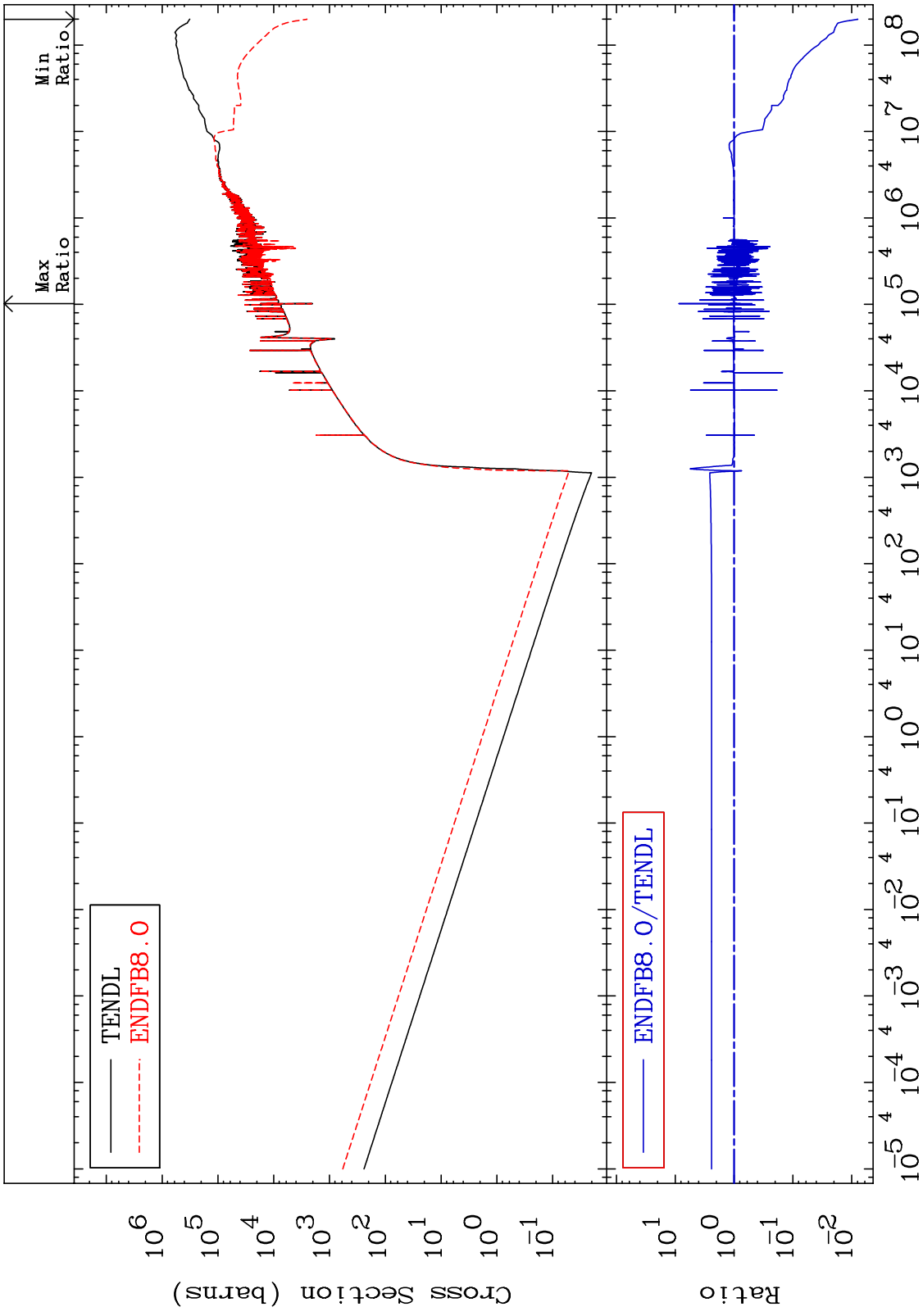
82-Pb-207
-99.99 To 9999. %



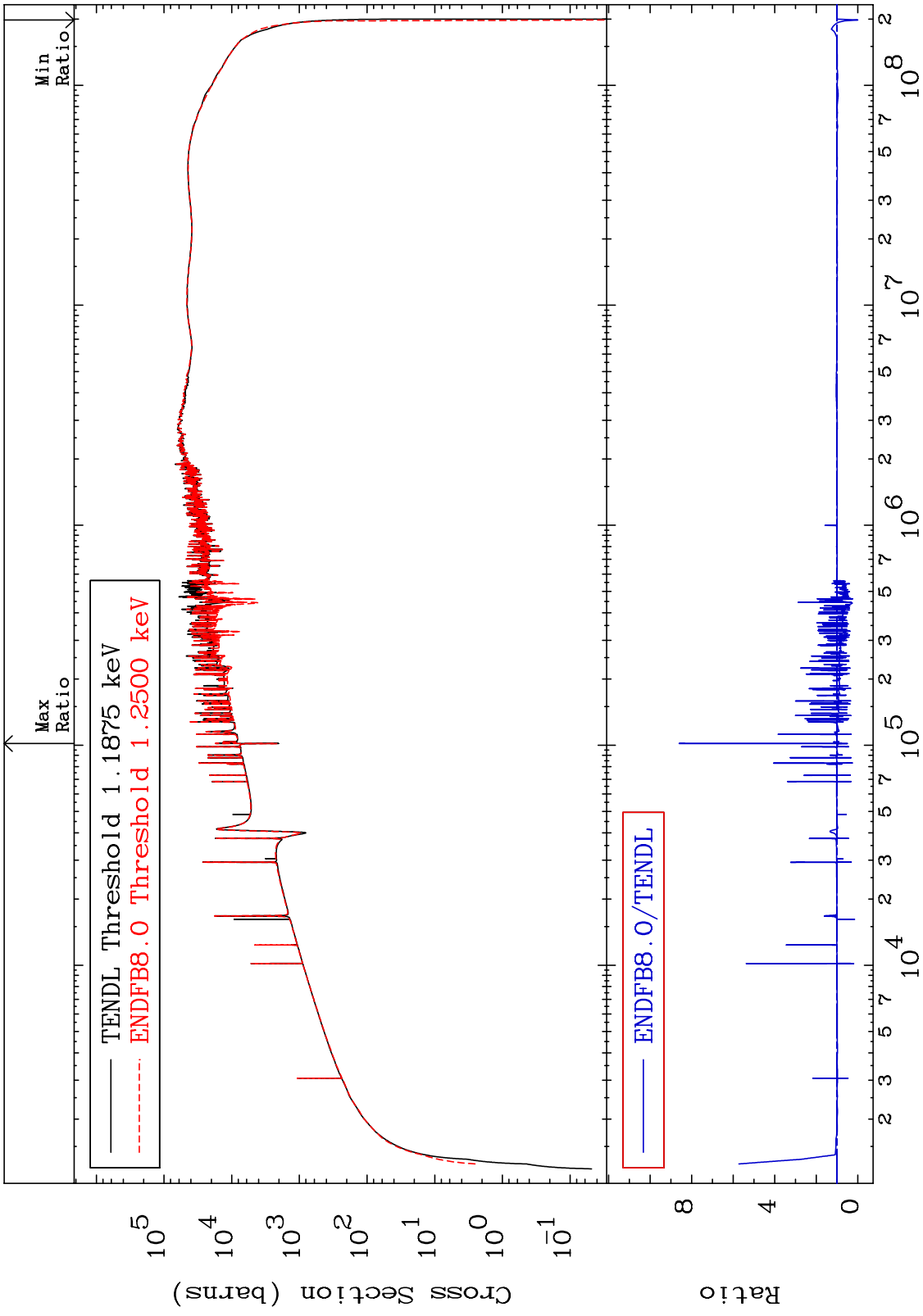
MAT 8234 Total kinematic kerma (high limit) 82-Pb-207
 Cross Section -85.10 To 760.8 %



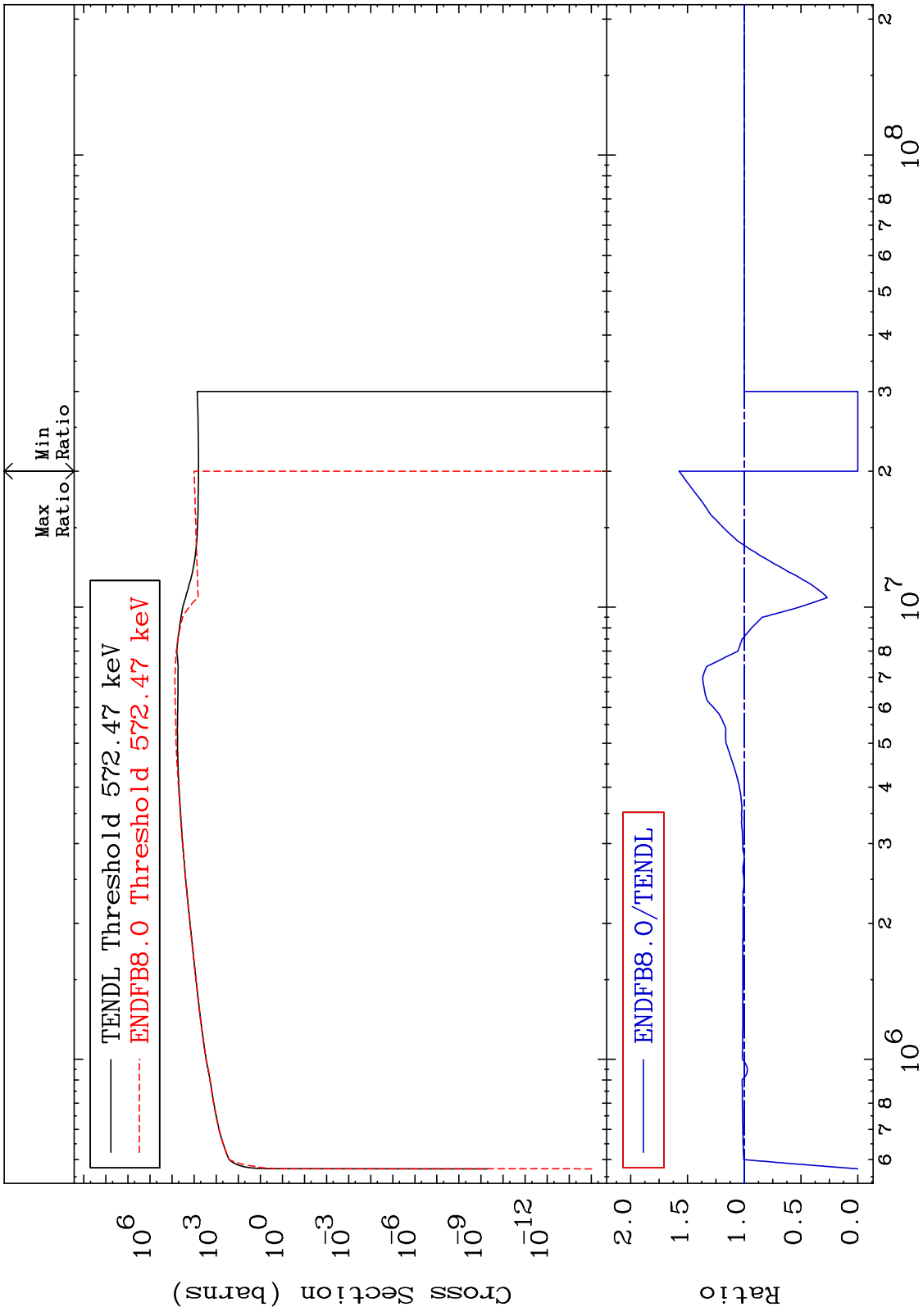
MAT 8234 Dpa total (eV-barns) 82-Pb-207
 Cross Section -99.21 To 760.9 %



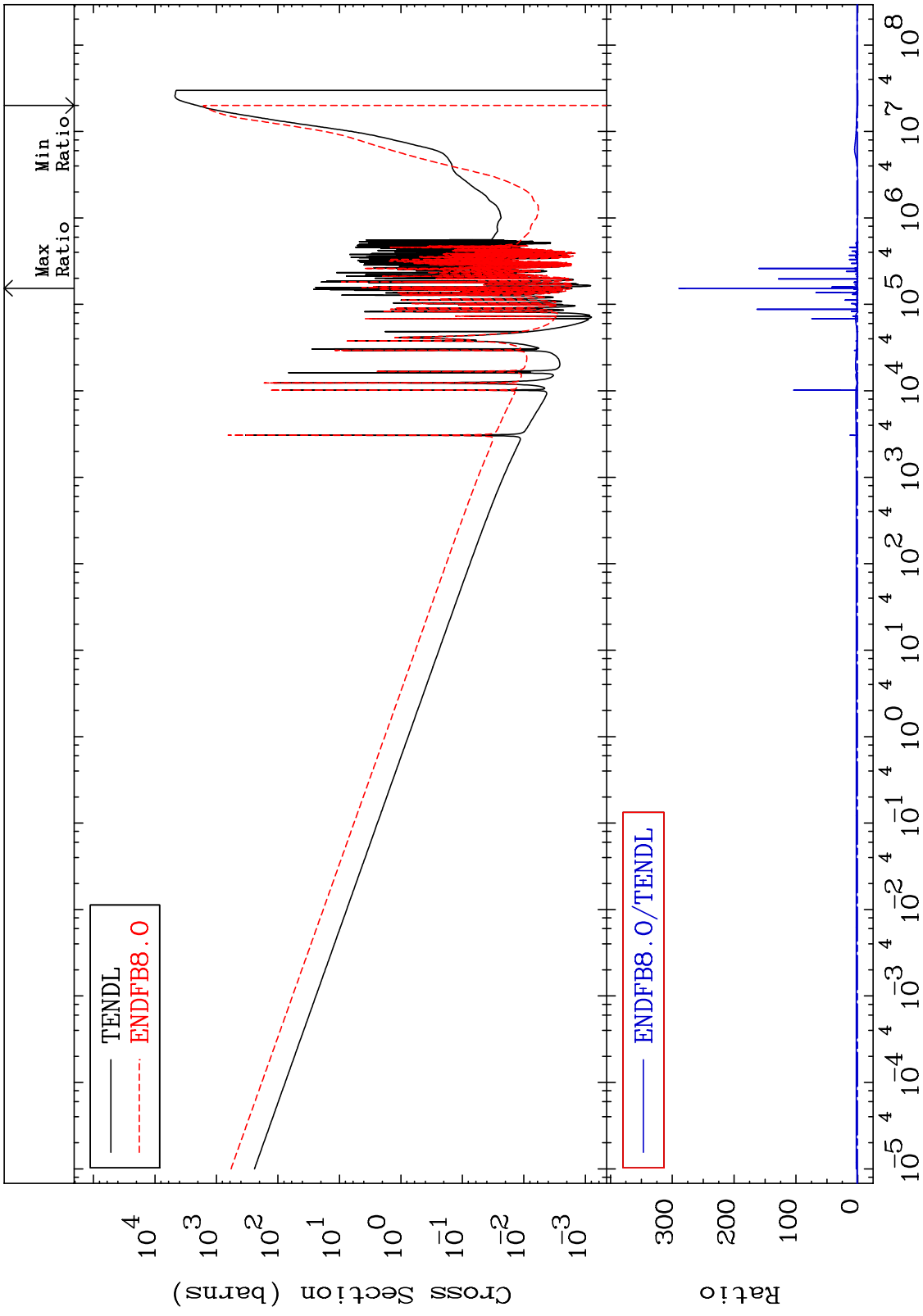
MAT 8234 Dpa elastic (mt2) 82-Pb-207
 Cross Section -100.0 To 760.9 %



MAT 8234 Dpa inelastic (mt51-91) 82-Pb-207
 -100.0 To 57.44 %



MAT 8234 Dpa disappearance (mt102 -120) 82-Pb-207
 Cross Section -100.0 To 9999. %

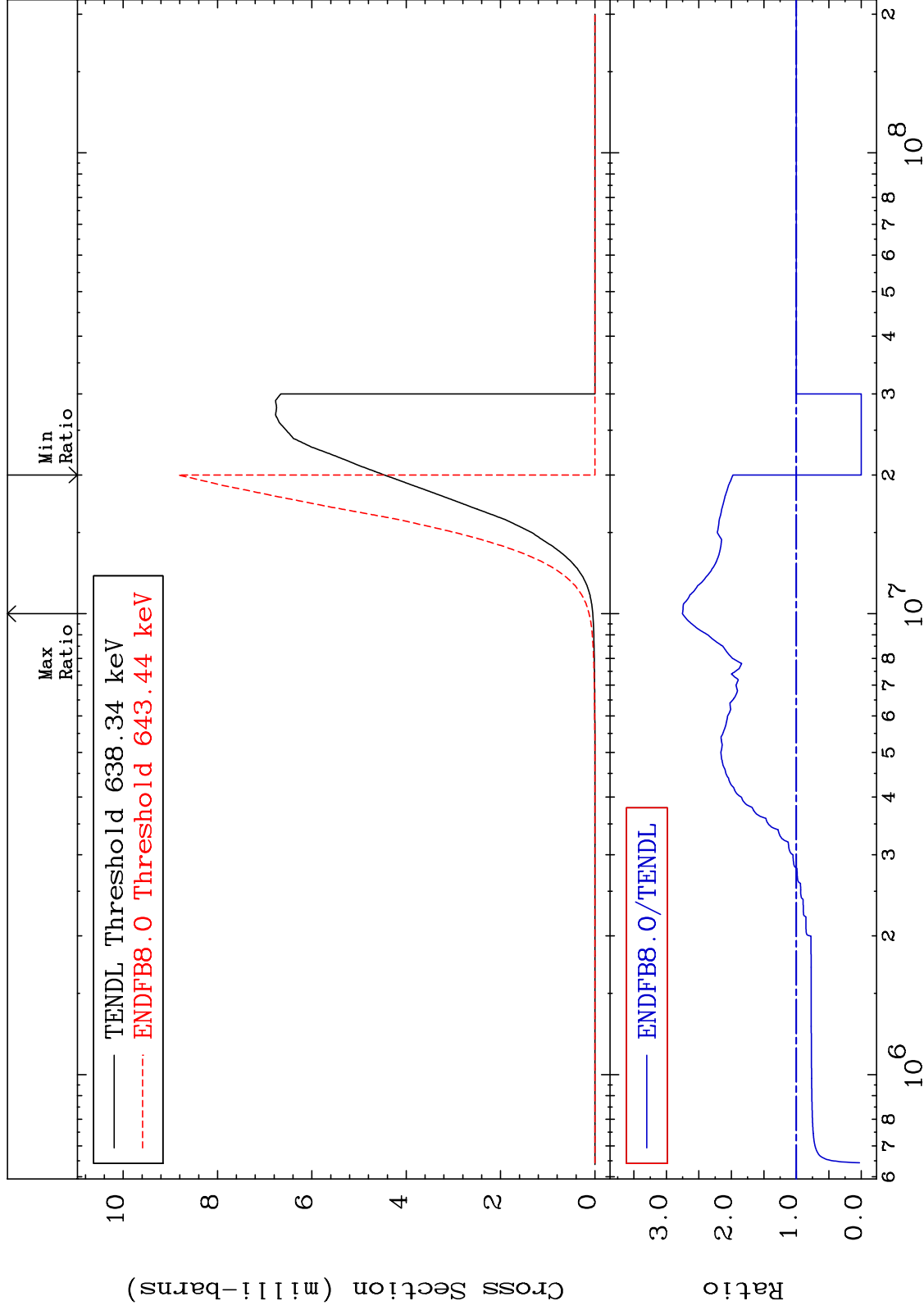


MAT 8234

(n,p):81-Tl-207g

82-Pb-207

Radionuclide Production Cross Section -100.0 To 175.3 %



MAT 8234 (n,p):81-Tl-207m2 82-Pb-207
 Radionuclide Production Cross Section -100.0 To 764.2 %

