

Program Complot  
(Version 2018-1)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550

U.S.A.

Tele: 925-443-1911

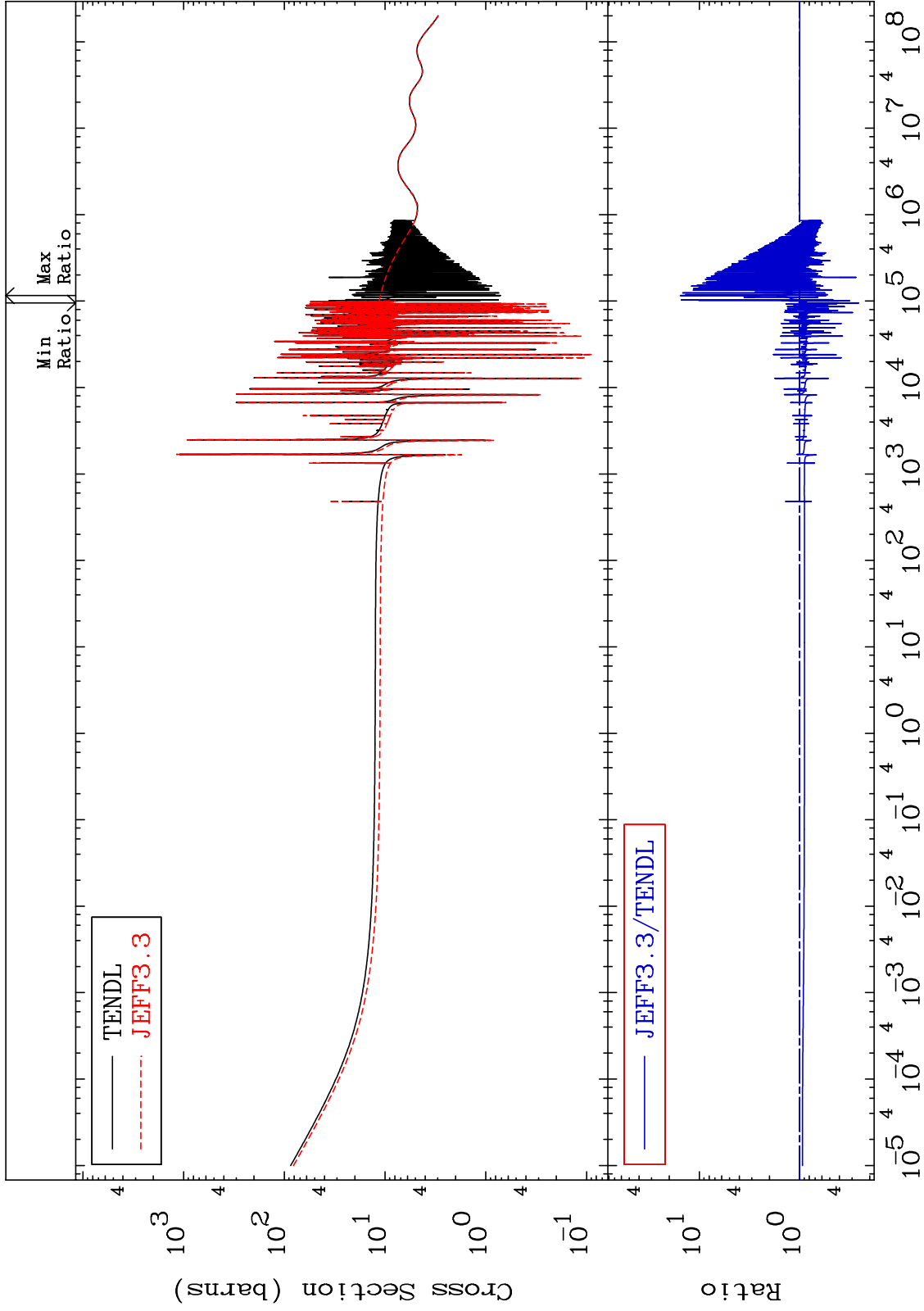
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 8225

Total  
Cross Section

82-Pb-204  
-74.38 To 1454. %



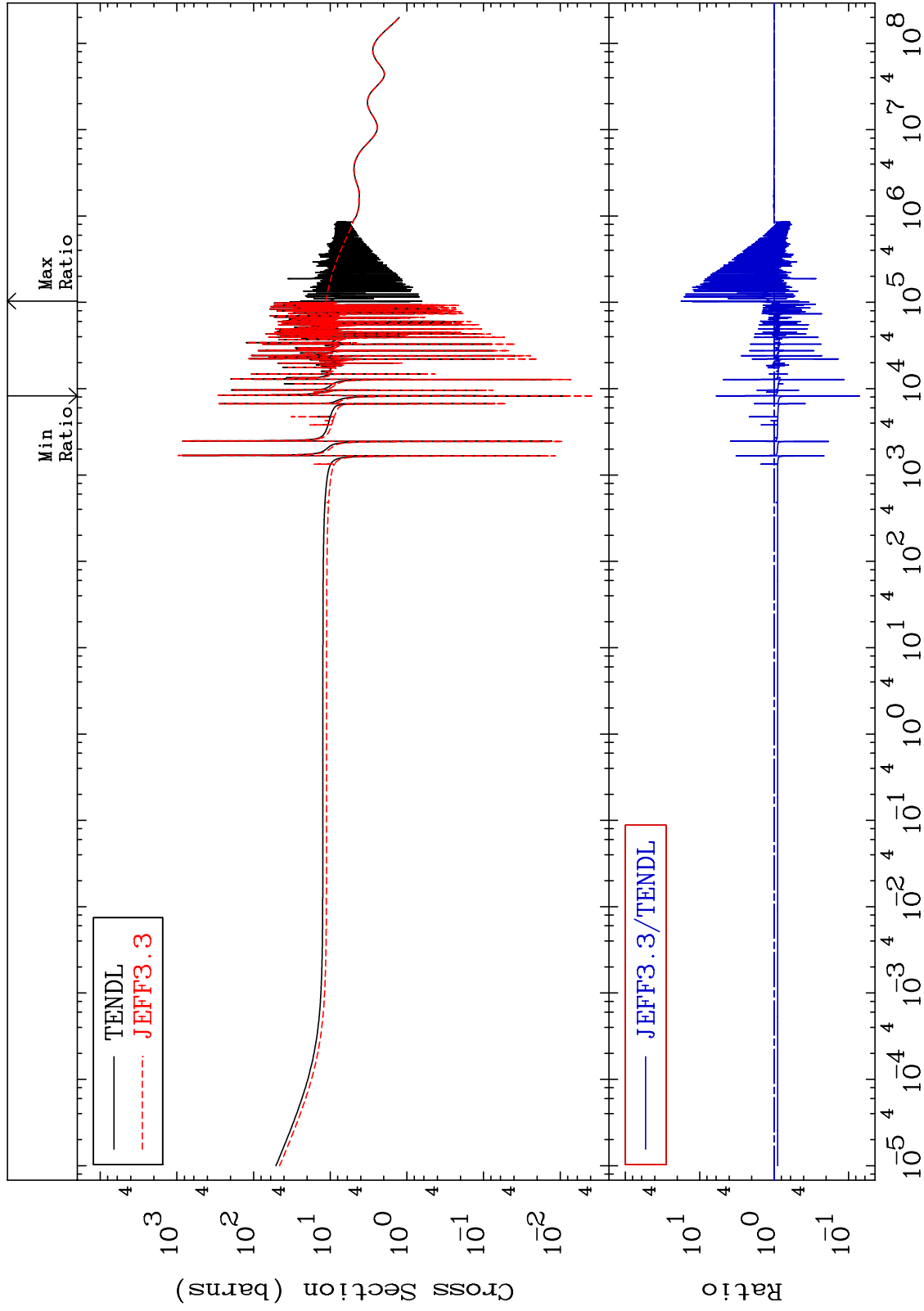
Incident Energy (eV)

82-Pb-204

MAT 8225

Elastic  
Cross Section

82-Pb-204  
-92.94 To 1668. %



2

Incident Energy (eV)

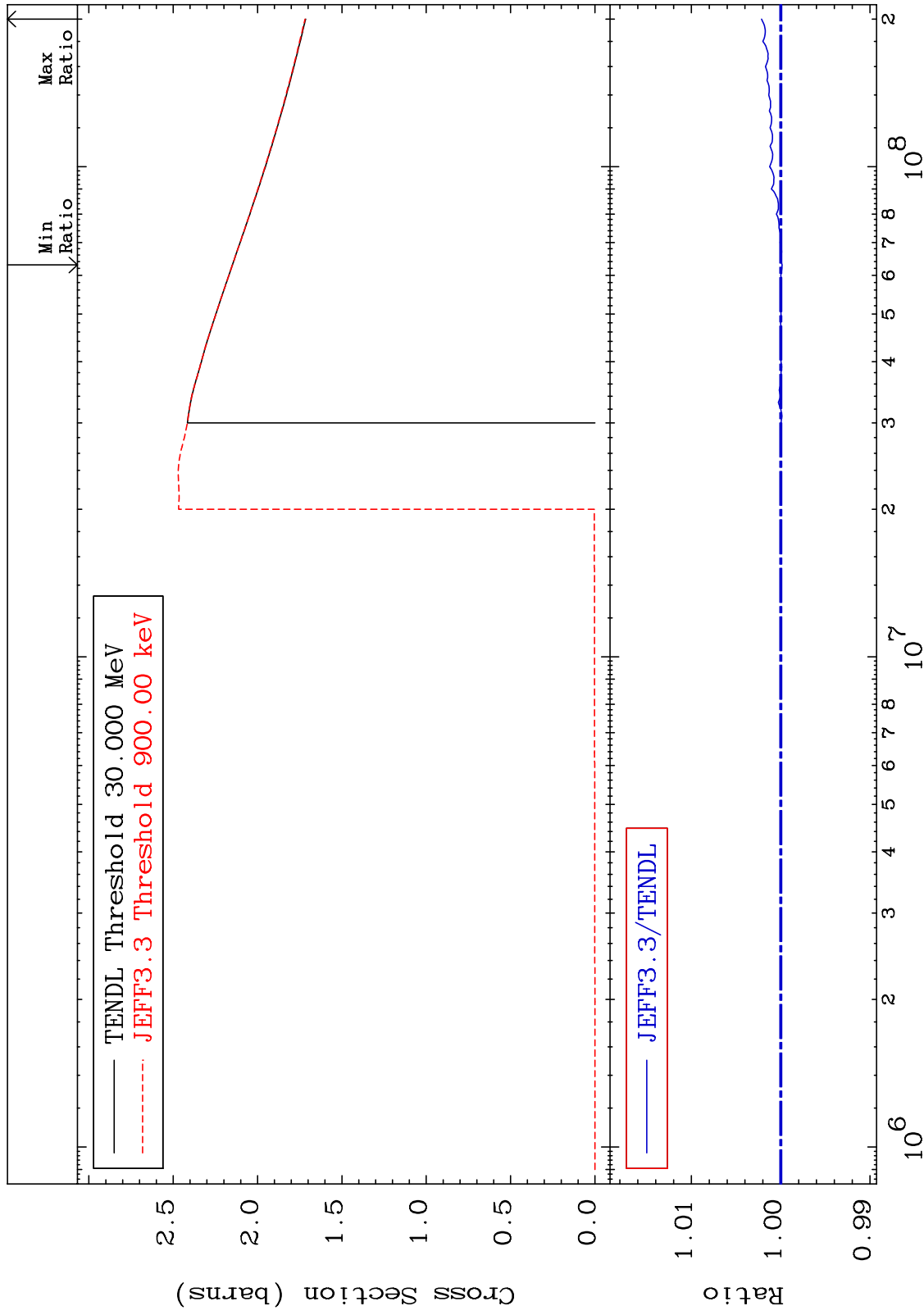
82-Pb-204



MAT 8225

(n, remainder)  
Cross Section

82-Pb-204  
-0.016 To 0.215 %

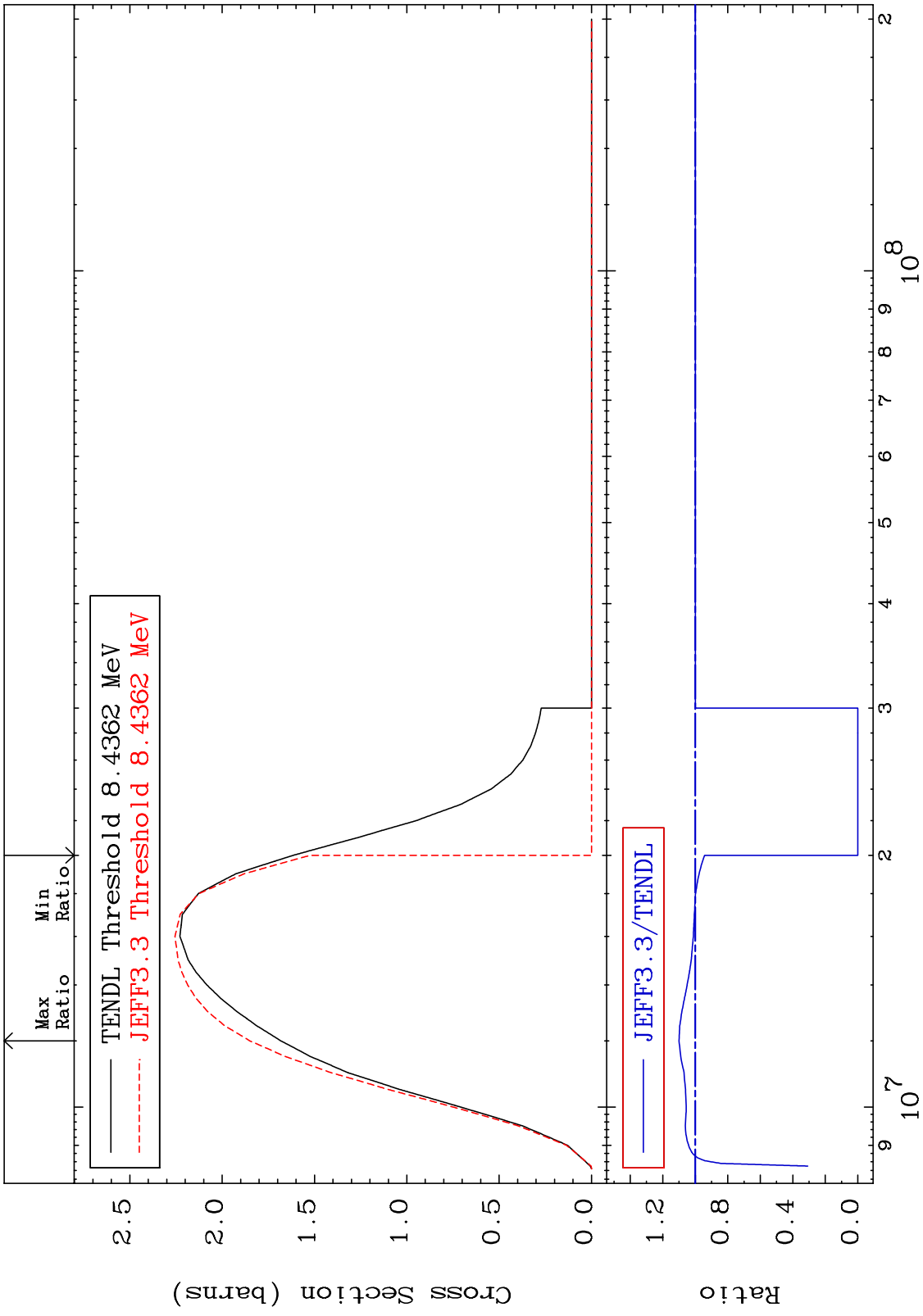


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Incident Energy (eV)

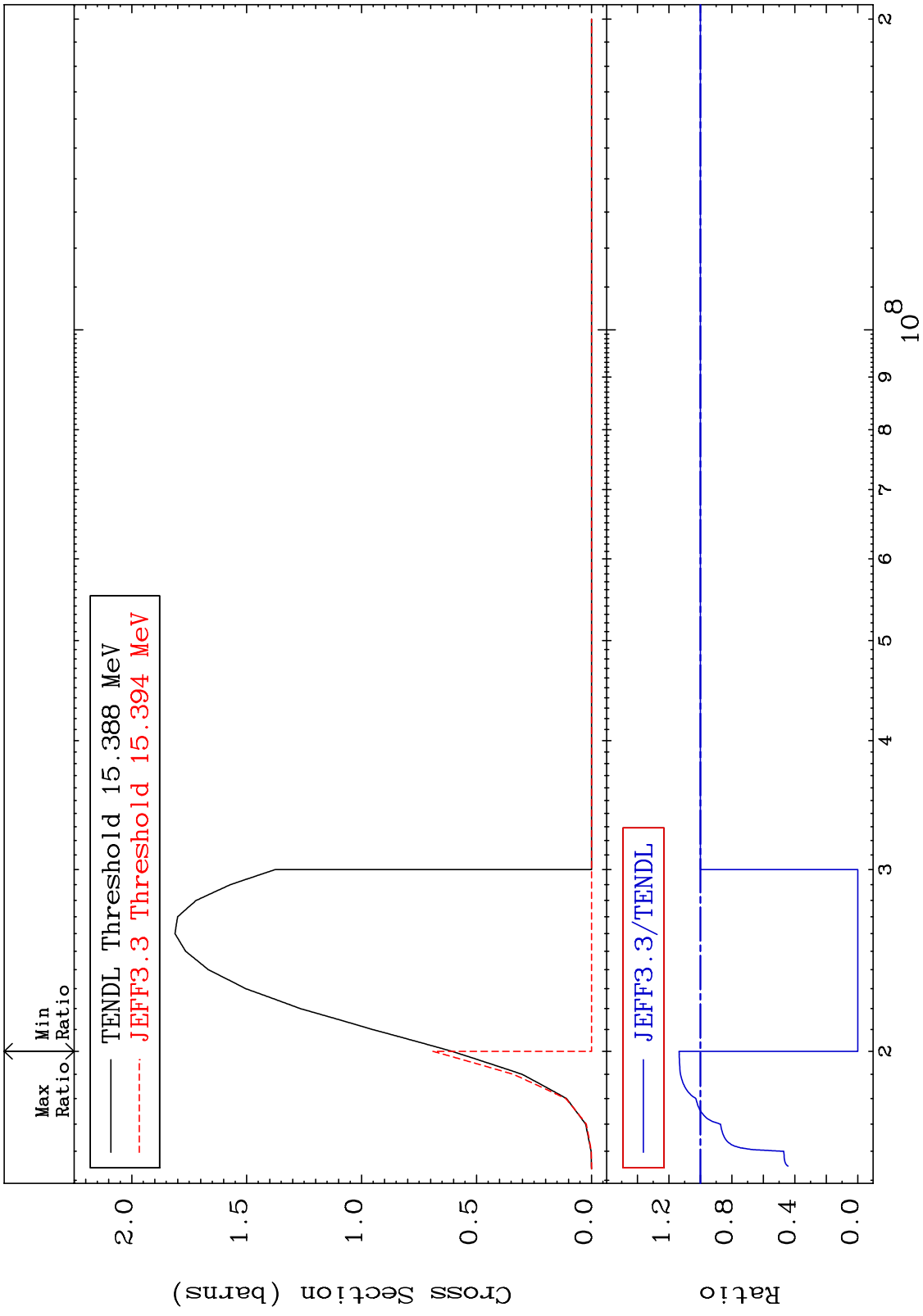
82-Pb-204

MAT 8225 (n,2n) Cross Section 82-Pb-204 -100.0 To 9.983 %



5 Incident Energy (eV) 82-Pb-204

MAT 8225 (n,3n) Cross Section 82-Pb-204 -100.0 To 13.58 %



MAT 8225

(n, n')  $\alpha$

82-Pb-204

-100.0 To 9999. %

Cross Section

Max Ratio

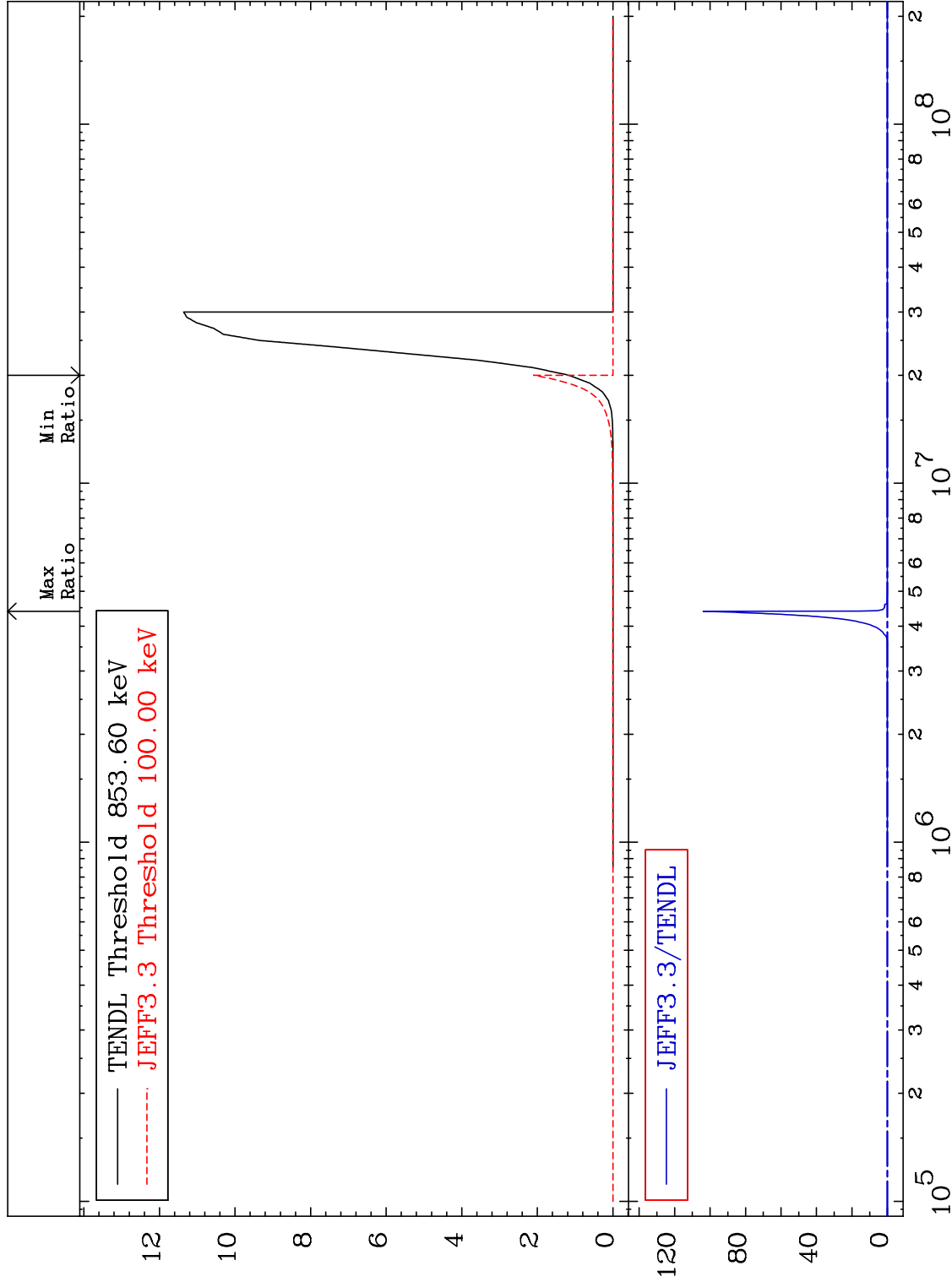
Min Ratio

TENDL Threshold 853.60 keV  
JEFF3.3 Threshold 100.00 keV

JEFF3.3/TENDL

Cross Section (milli-barns)

Ratio



Incident Energy (eV)

82-Pb-204



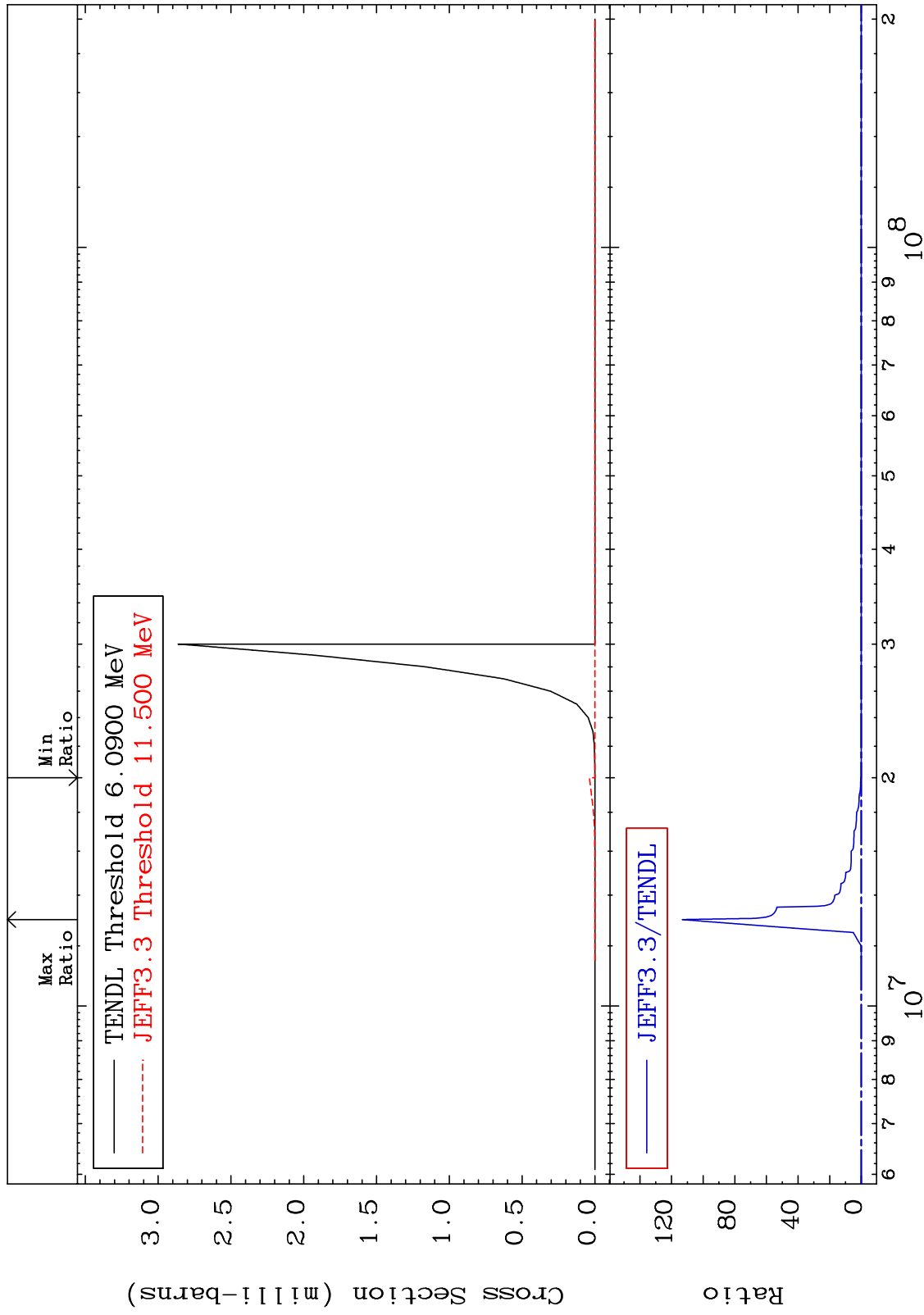
MAT 8225

(n,2n)  $\alpha$

82-Pb-204

-100.0 To 9999. %

Cross Section

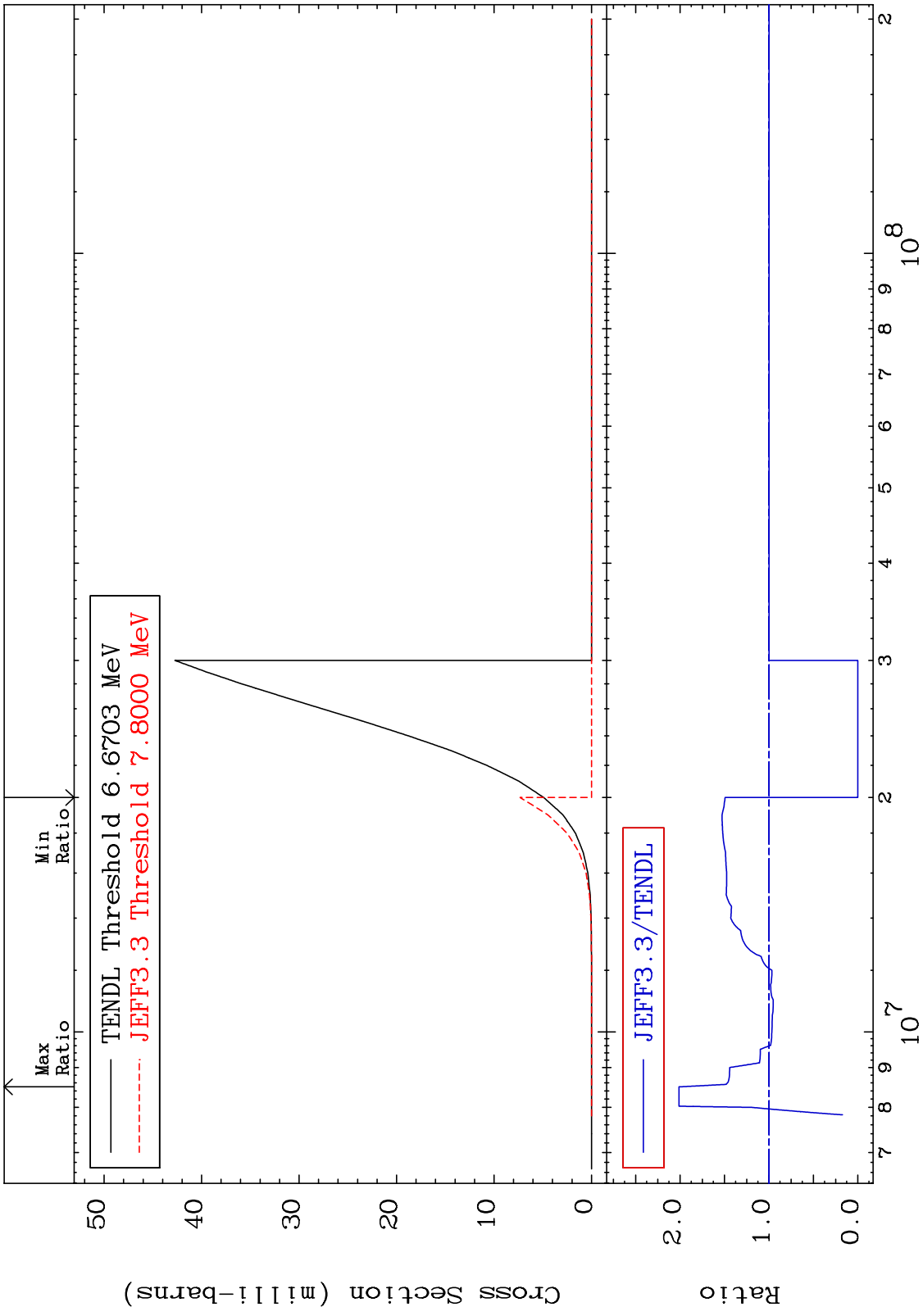


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Incident Energy (eV)

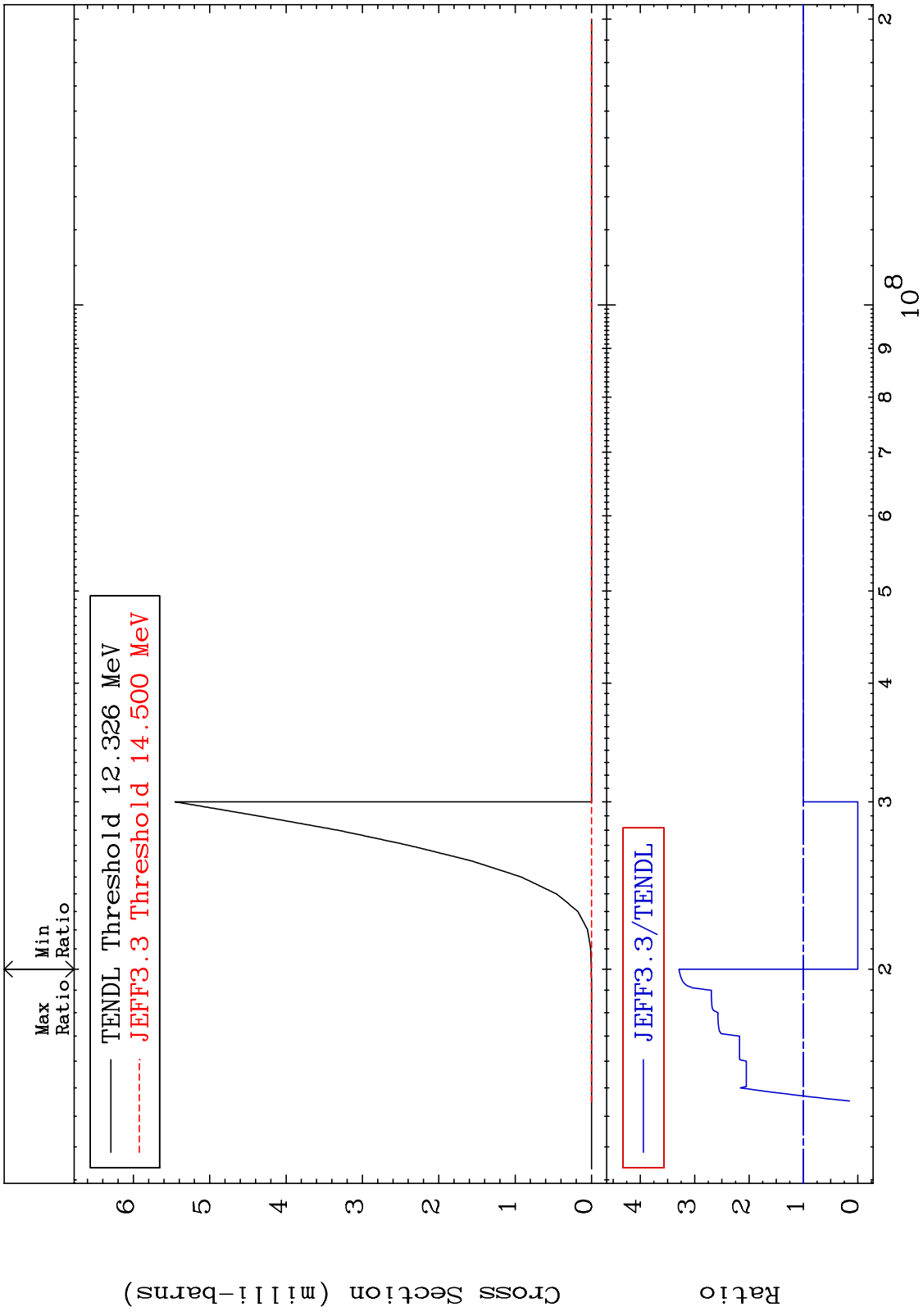
82-Pb-204

MAT 8225 (n,n') p 82-Pb-204  
Cross Section -100.0 To 101.1 %

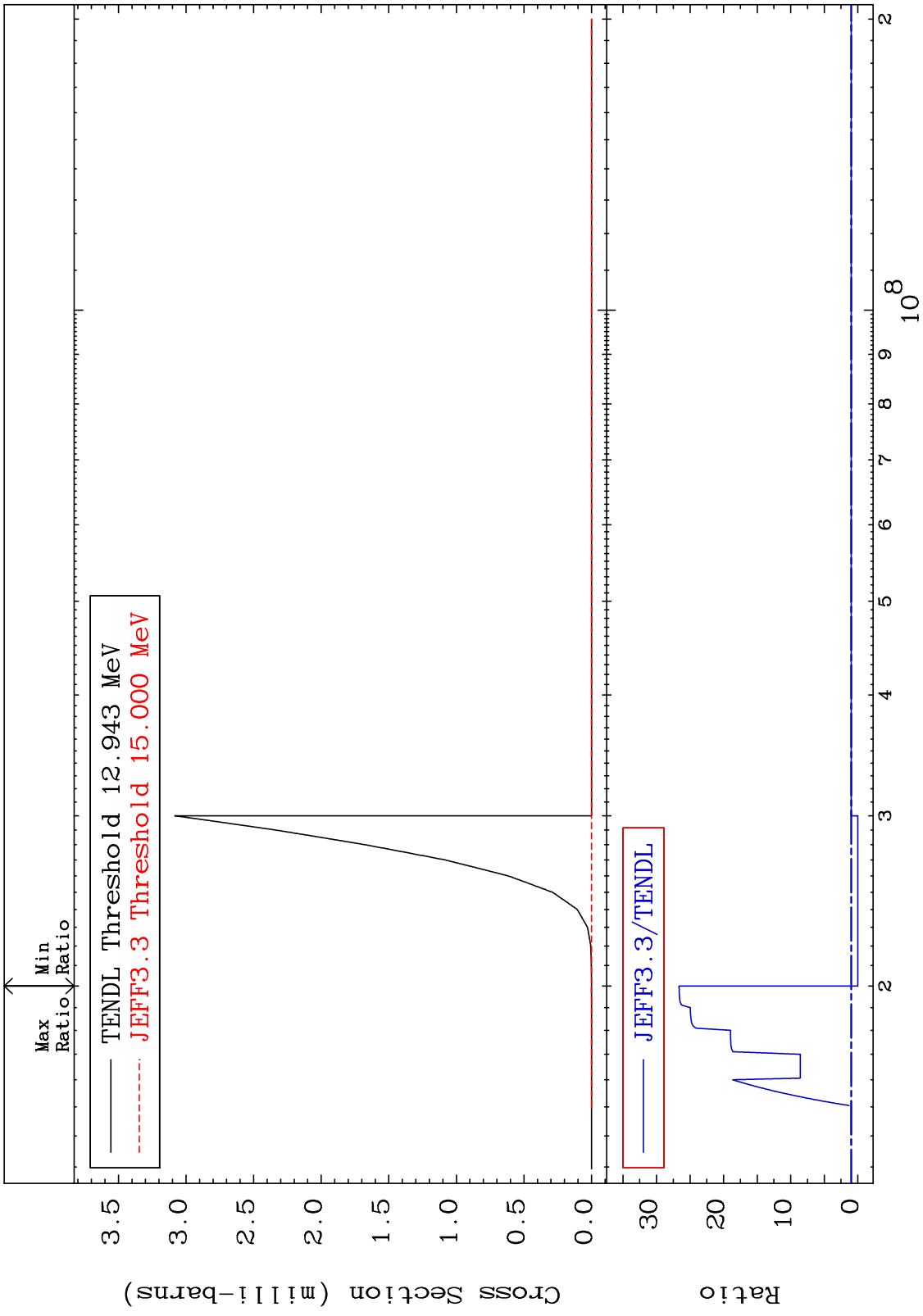


9 82-Pb-204

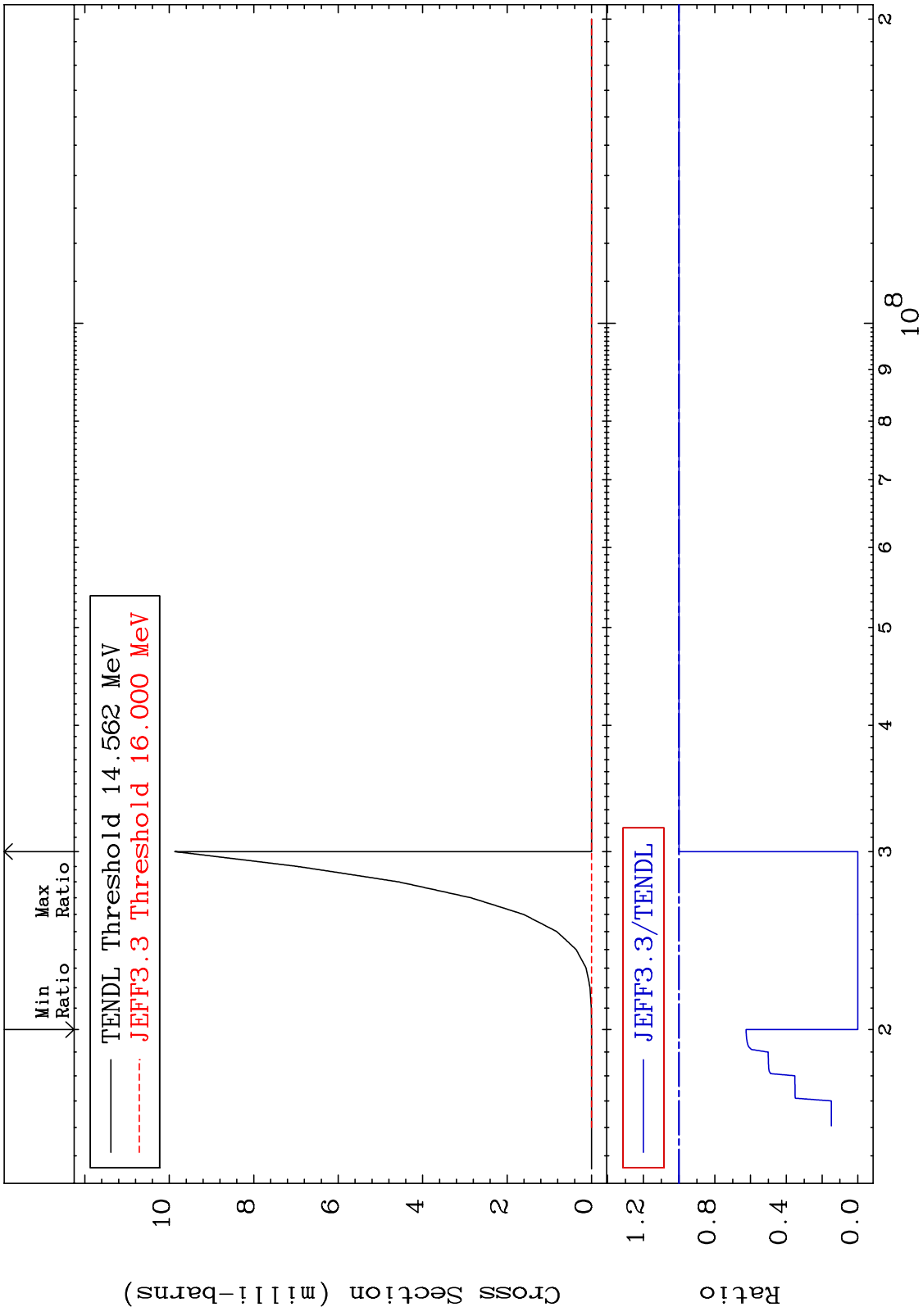
MAT 8225 (n, n') d 82-Pb-204  
 Cross Section -100.0 To 228.8 %



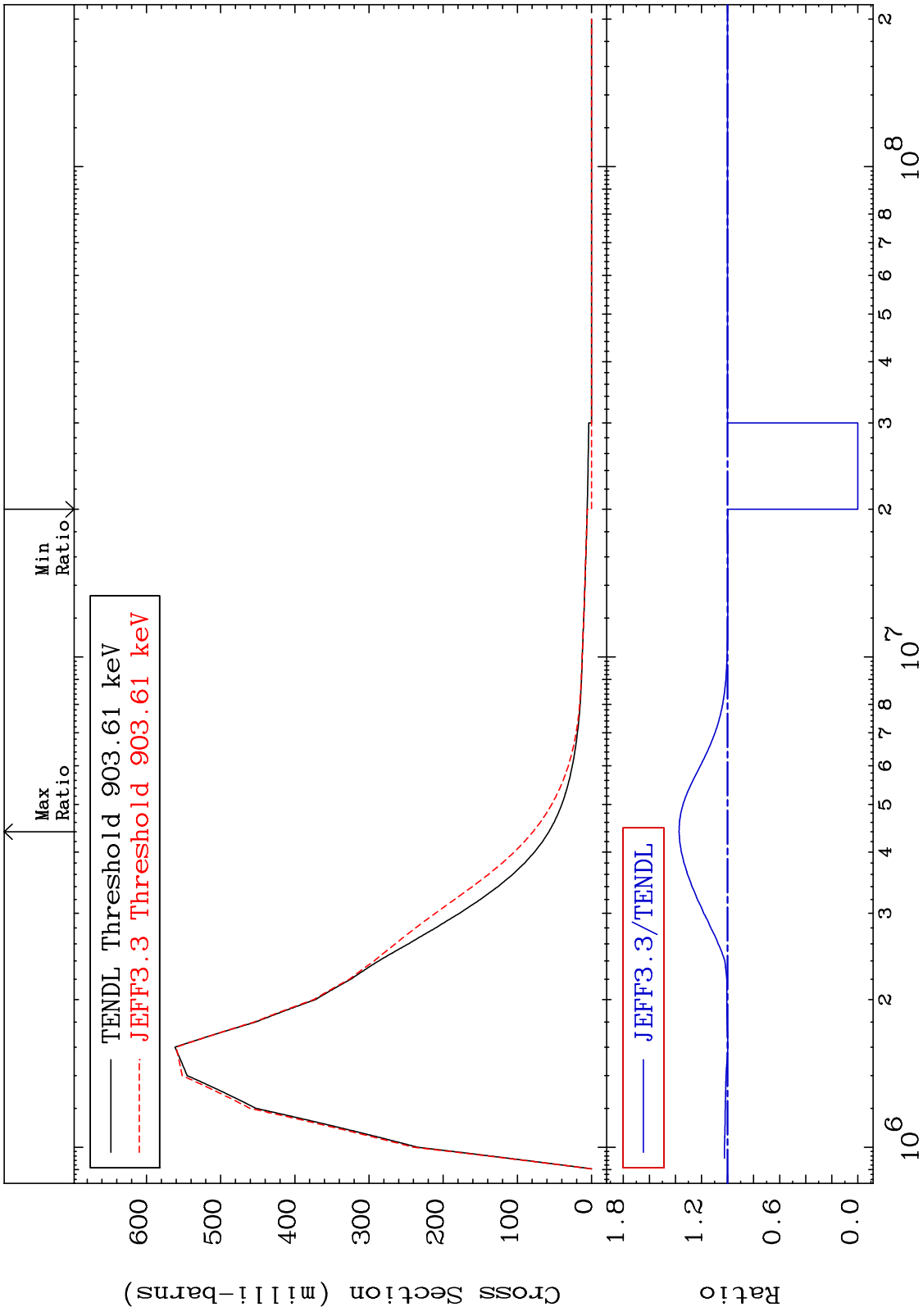
MAT 8225 (n,n') t 82-Pb-204  
 Cross Section -100.0 To 2564. %



MAT 8225  $(n, 2n) p$  82-Pb-204  
 Cross Section -100.0 To 0.000 %

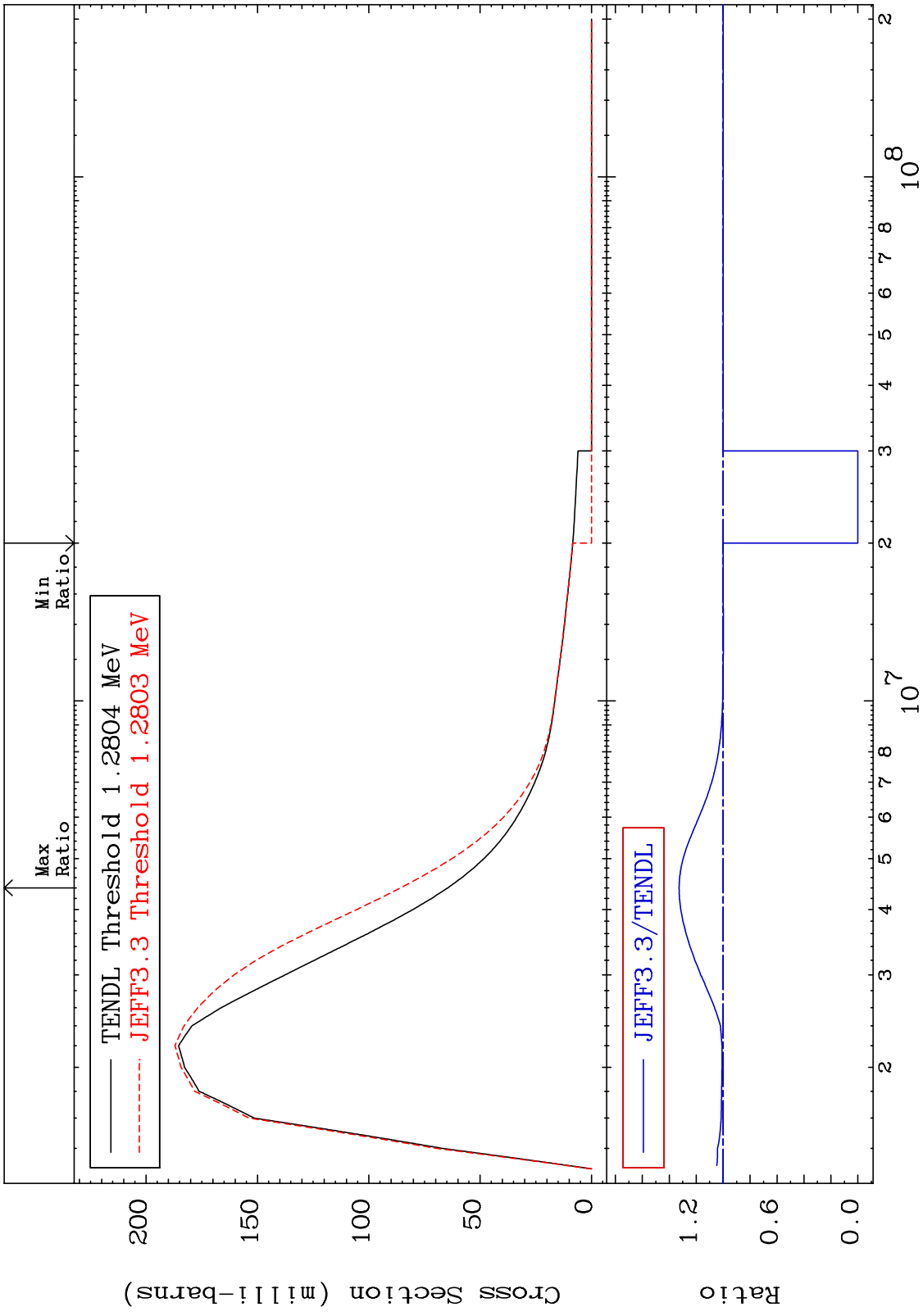


MAT 8225 MT= 51 (n,n') Level Cross Section 82-Pb-204  
-100.0 To 37.23 %

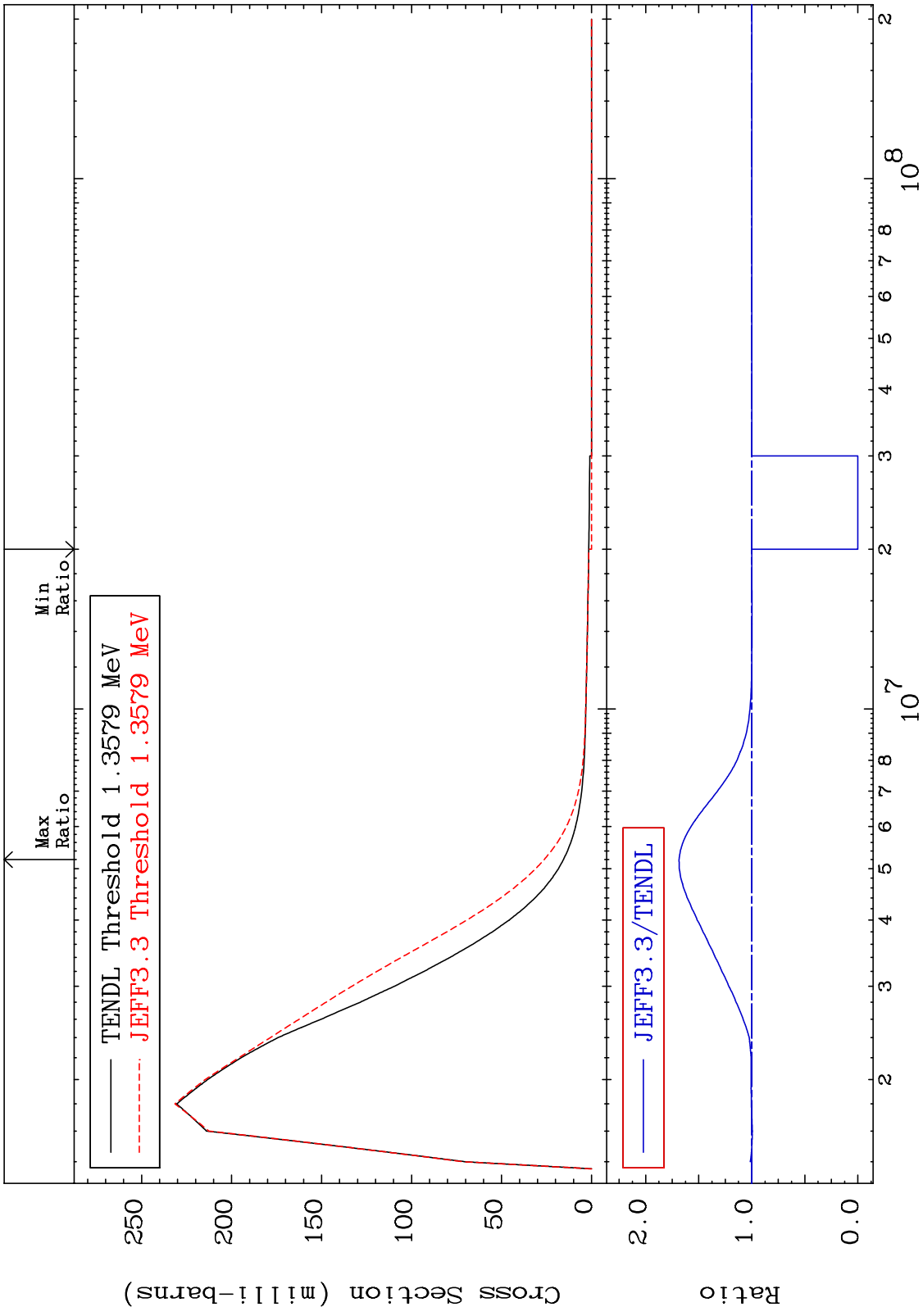


13 Incident Energy (eV) 82-Pb-204

MAT 8225 MT= 52 (n,n') Level Cross Section -100.0 To 32.75 % 82-Pb-204

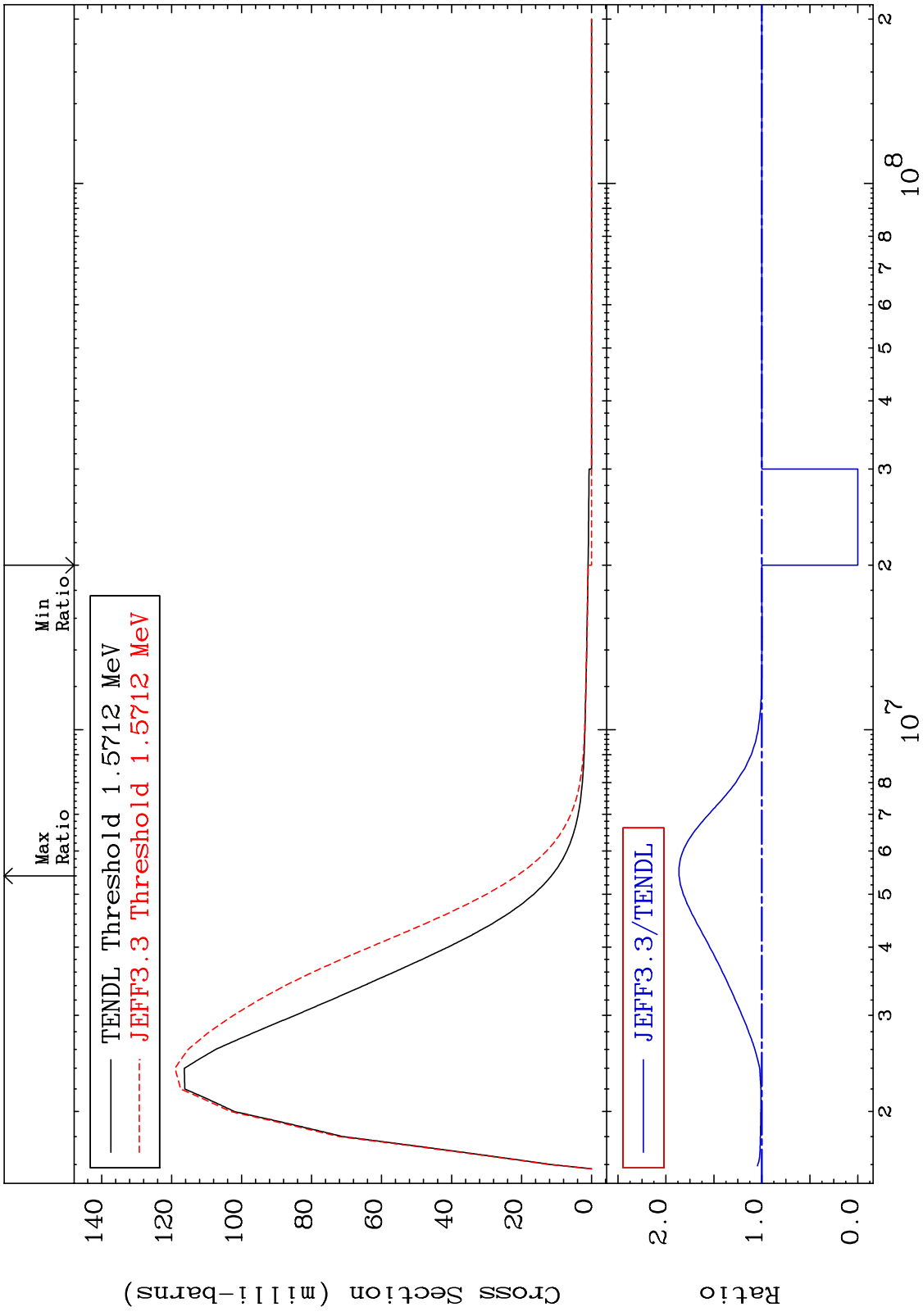


MAT 8225 MT= 53 (n, n') Level Cross Section -100.0 To 68.53 % 82-Pb-204

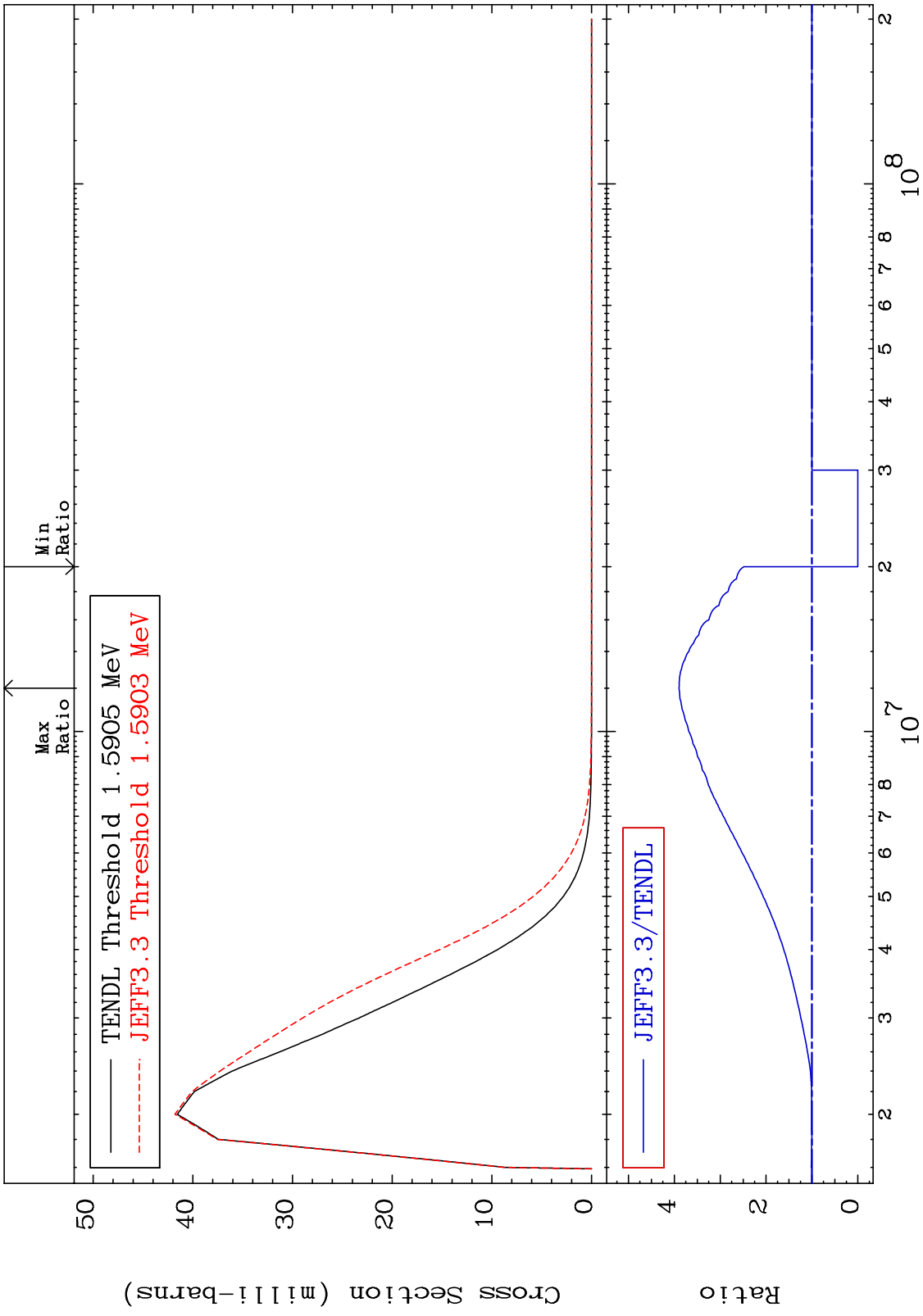




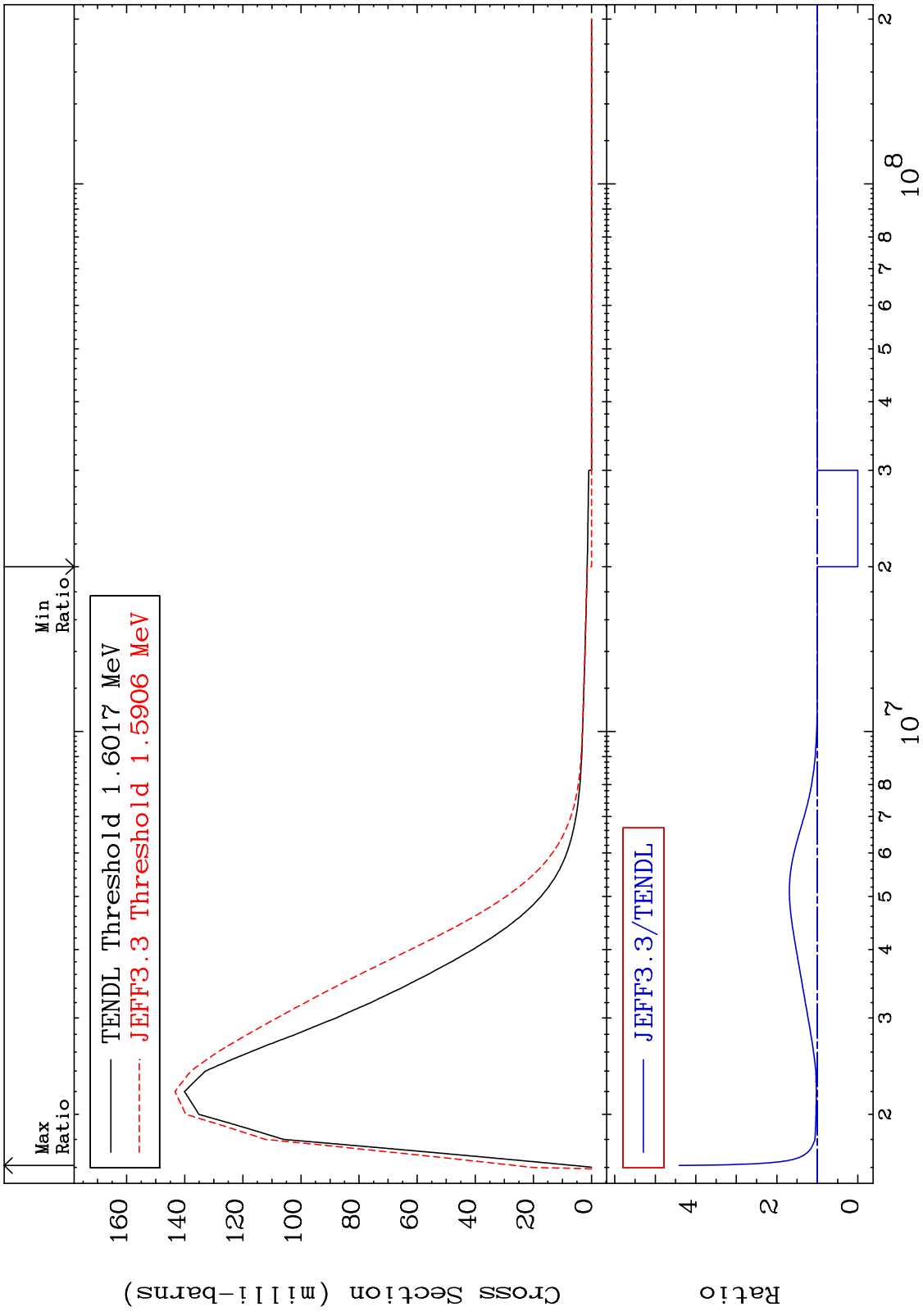
MAT 8225 MT= 54 (n,n') Level Cross Section -100.0 To 86.32 % 82-Pb-204



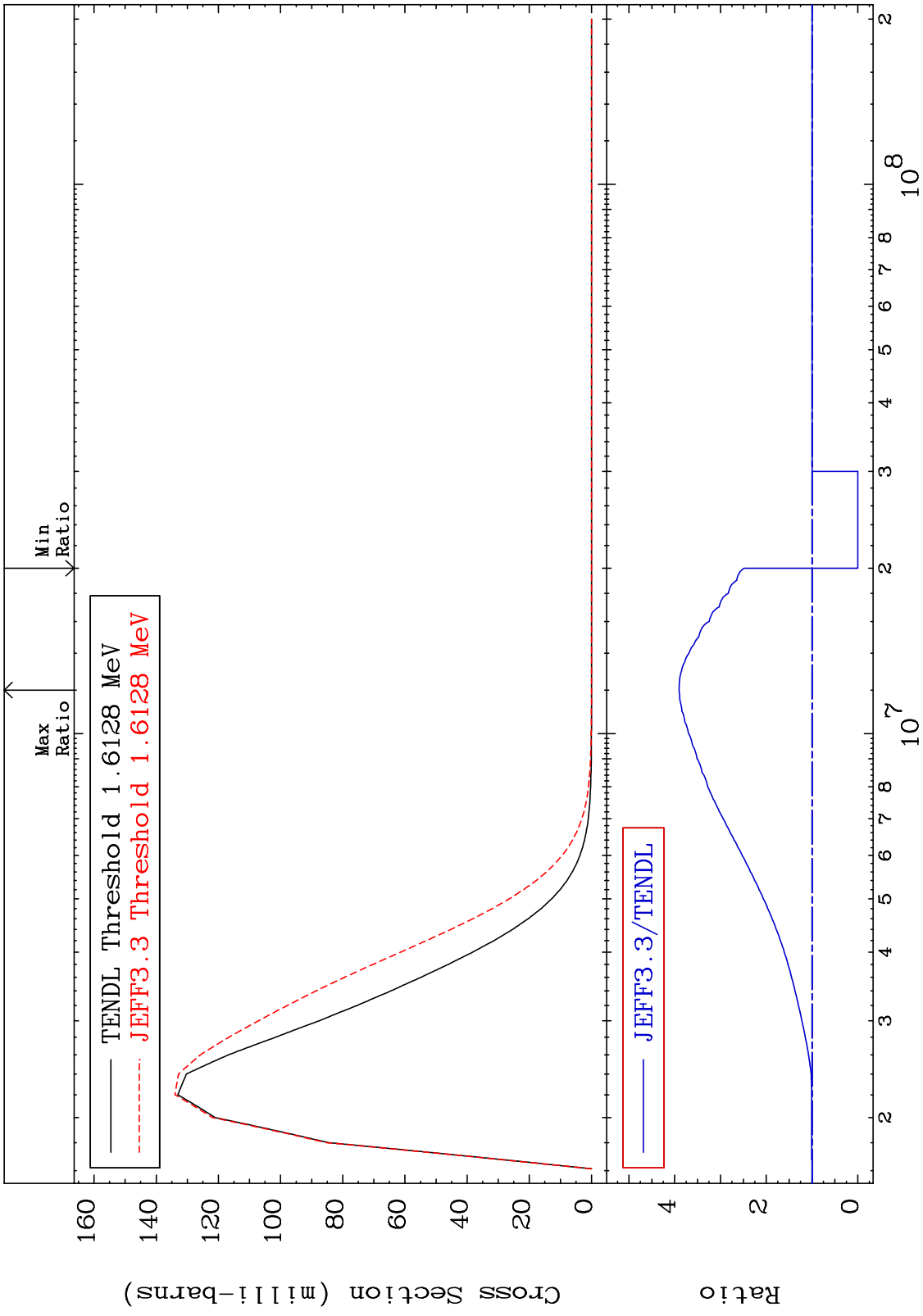
MAT 8225 MT= 55 (n,n') Level Cross Section -100.0 To 289.7 % 82-Pb-204



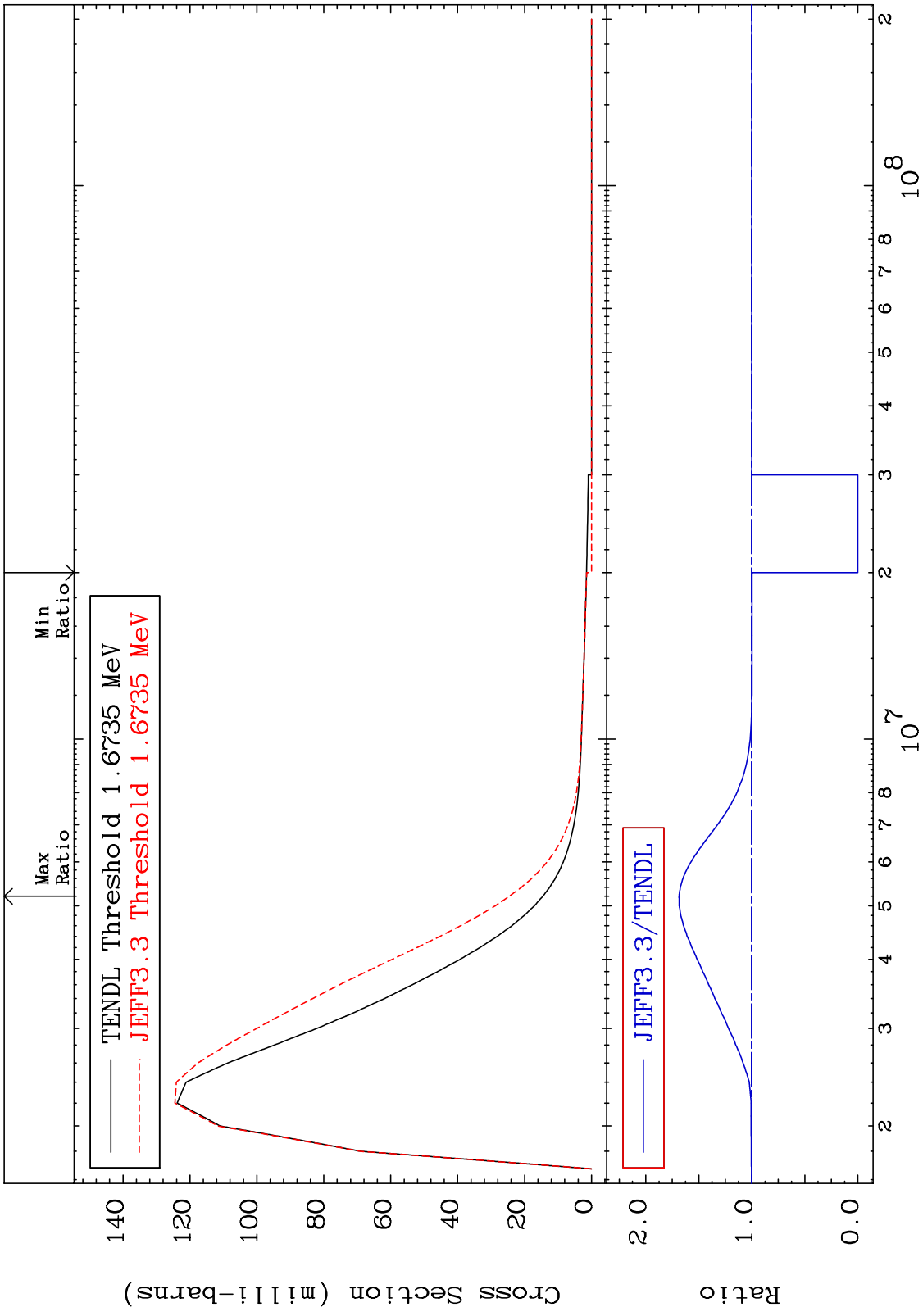
MAT 8225 MT= 56 (n,n') Level Cross Section -100.0 To 341.4 % 82-Pb-204



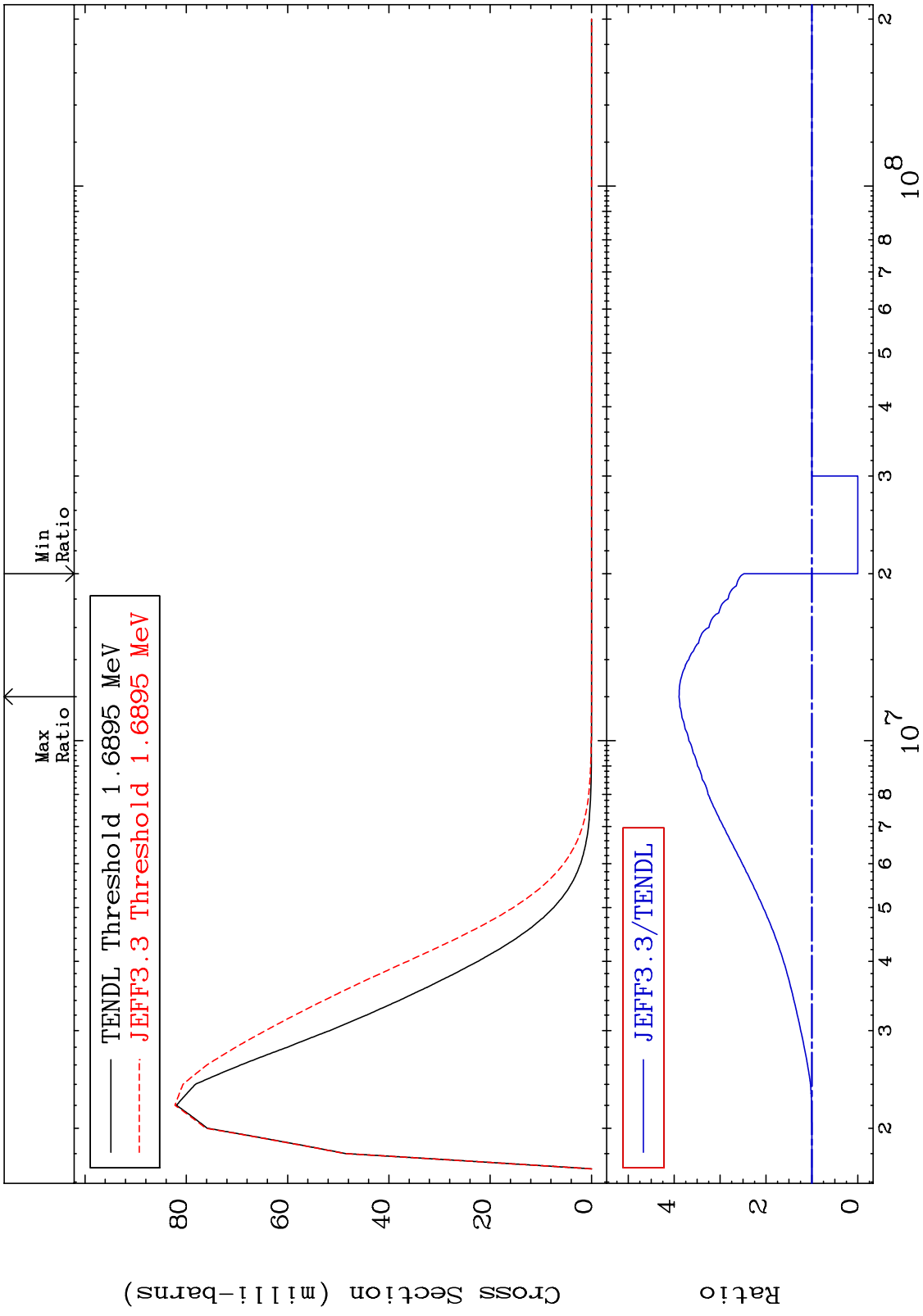
MAT 8225 MT= 57 (n,n') Level Cross Section -100.0 To 290.5 % 82-Pb-204



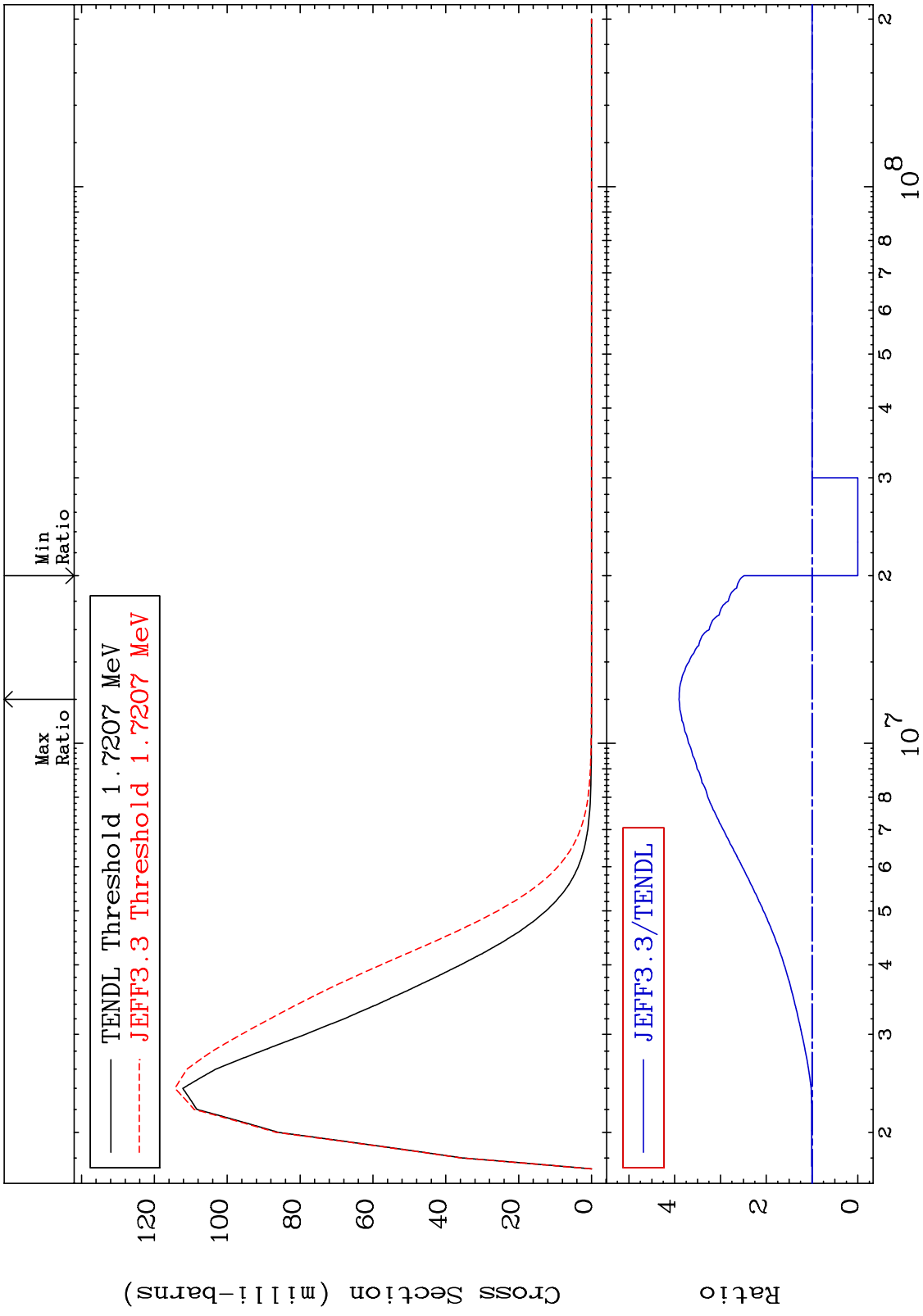
MAT 8225 MT= 58 (n,n') Level Cross Section 82-Pb-204  
 -100.0 To 68.59 %



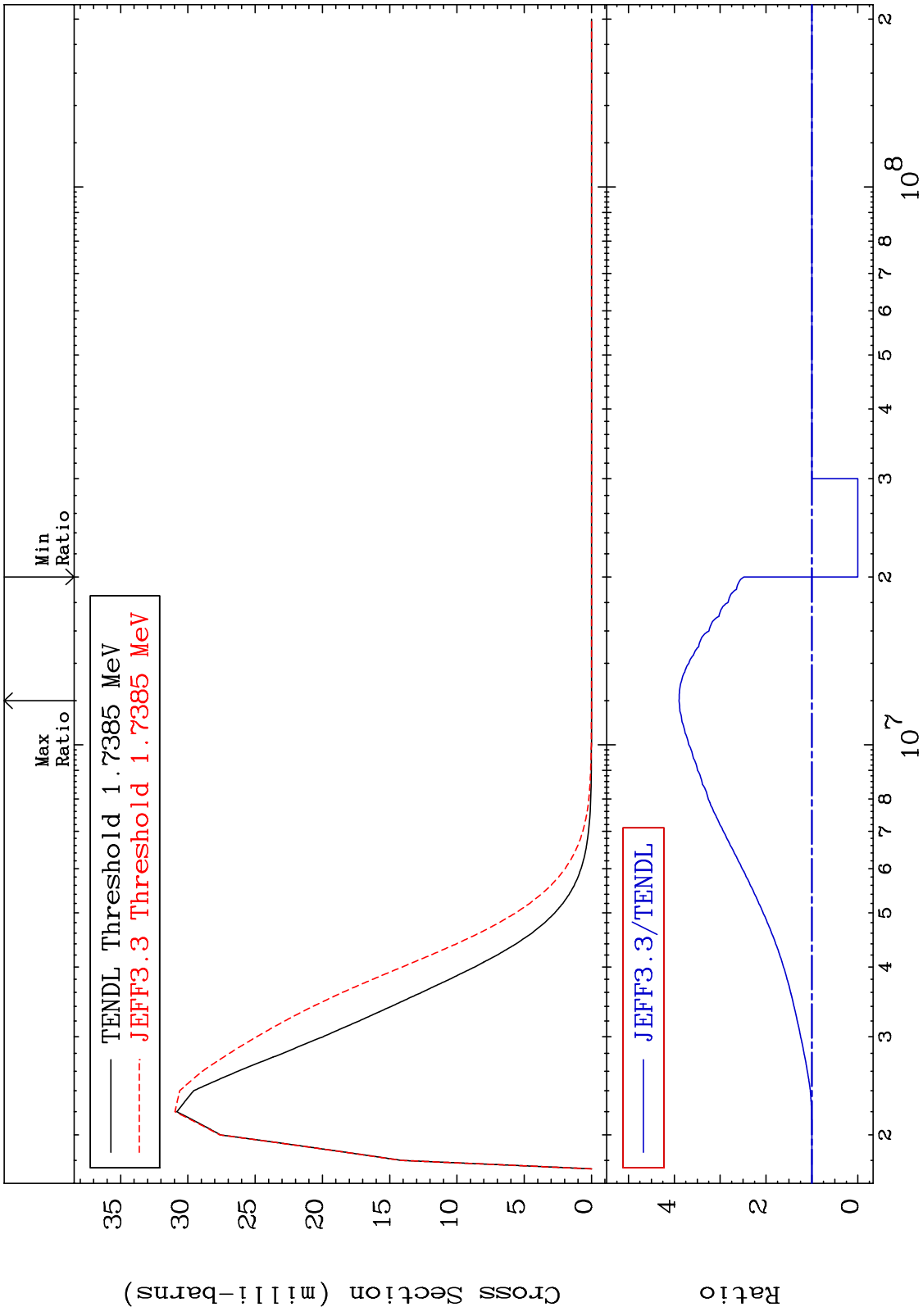
MAT 8225 MT= 59 (n,n') Level Cross Section 82-Pb-204  
 -100.0 To 289.6 %



MAT 8225 MT= 60 (n,n') Level Cross Section -100.0 To 290.5 % 82-Pb-204

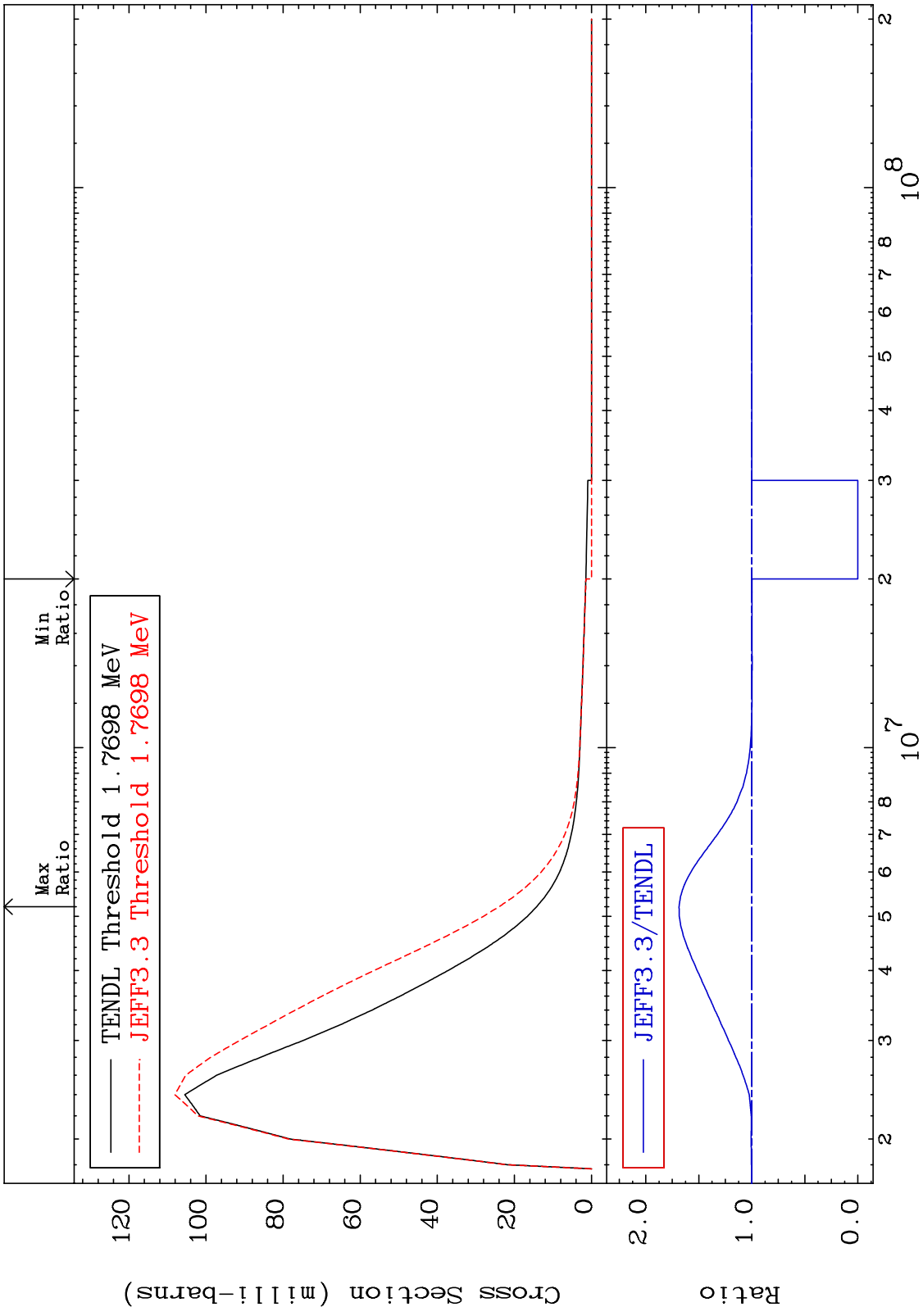


MAT 8225 MT= 61 (n,n') Level Cross Section -100.0 To 289.7 % 82-Pb-204

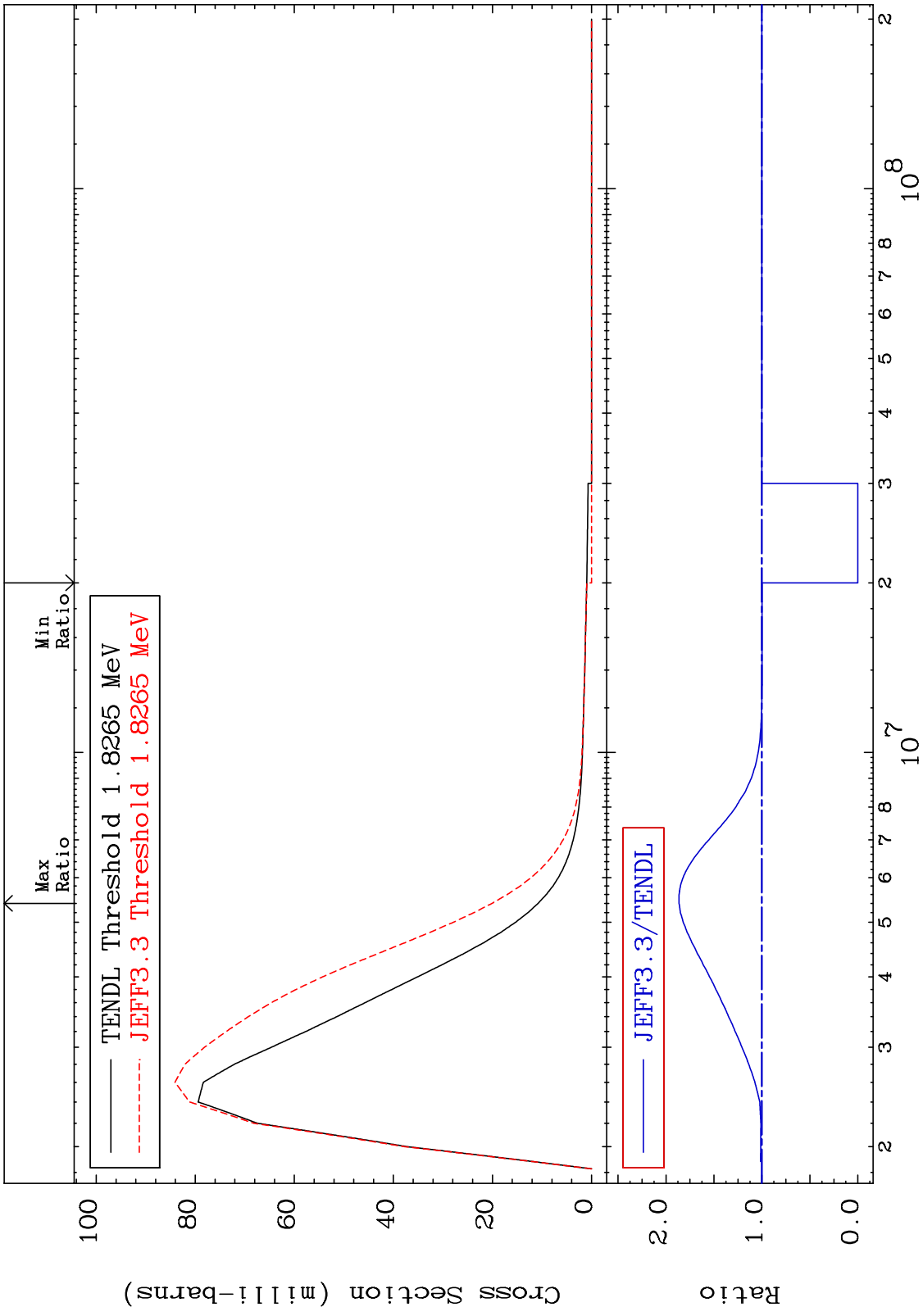




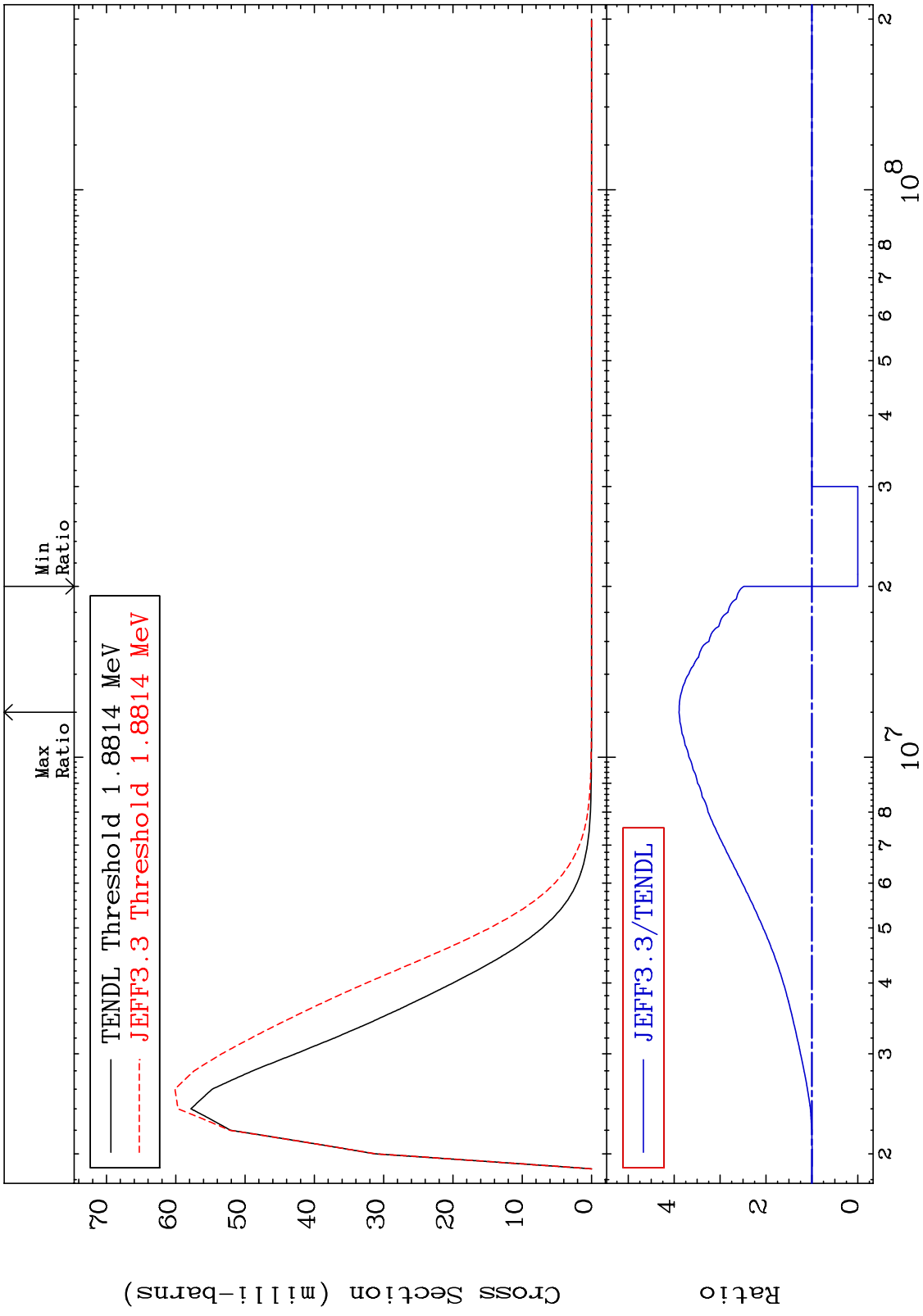
MAT 8225 MT= 62 (n,n') Level Cross Section 82-Pb-204  
 -100.0 To 68.64 %



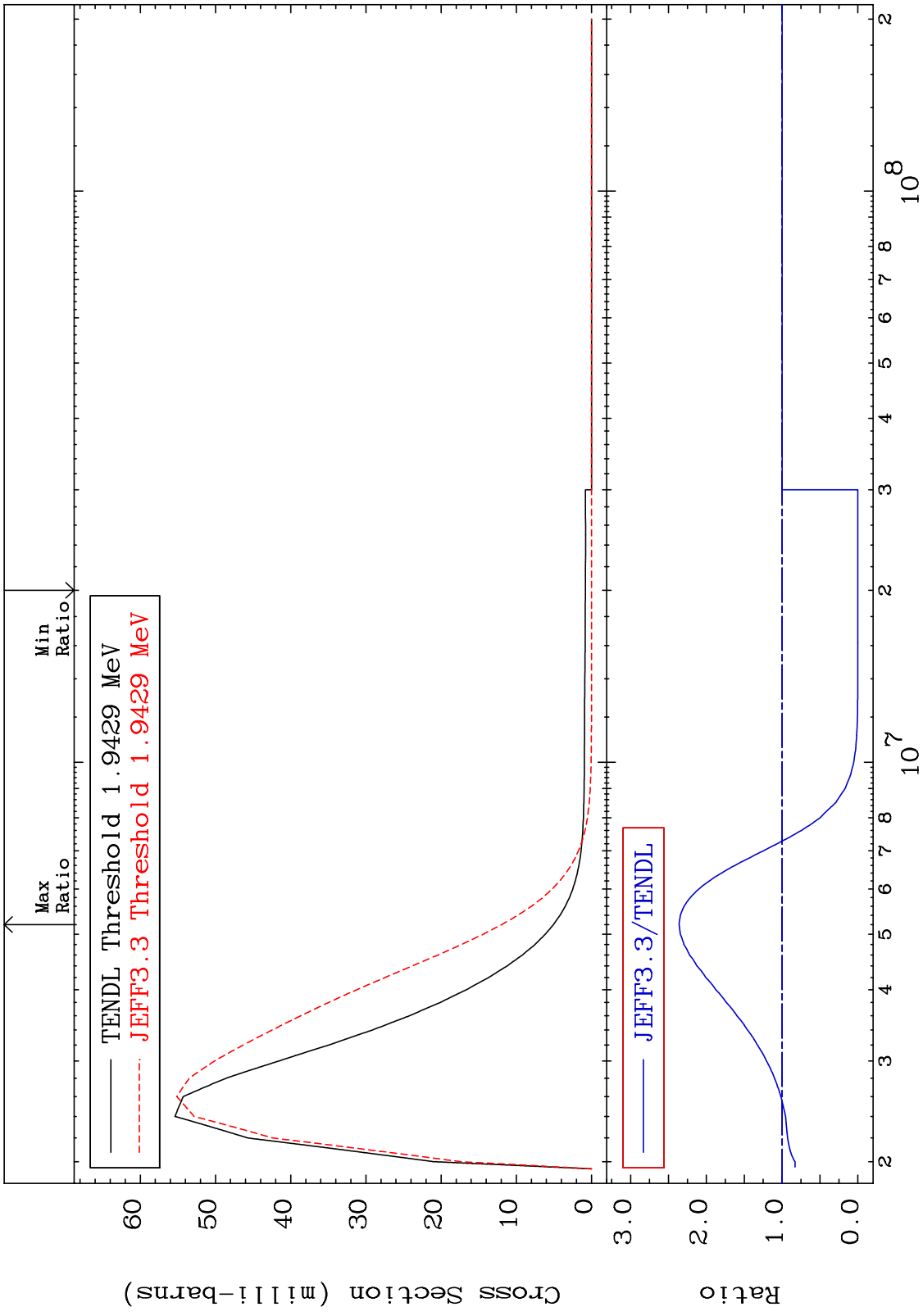
MAT 8225 MT= 63 (n,n') Level Cross Section 82-Pb-204  
 -100.0 To 86.39 %



MAT 8225 MT= 64 (n,n') Level Cross Section -100.0 To 289.5 % 82-Pb-204



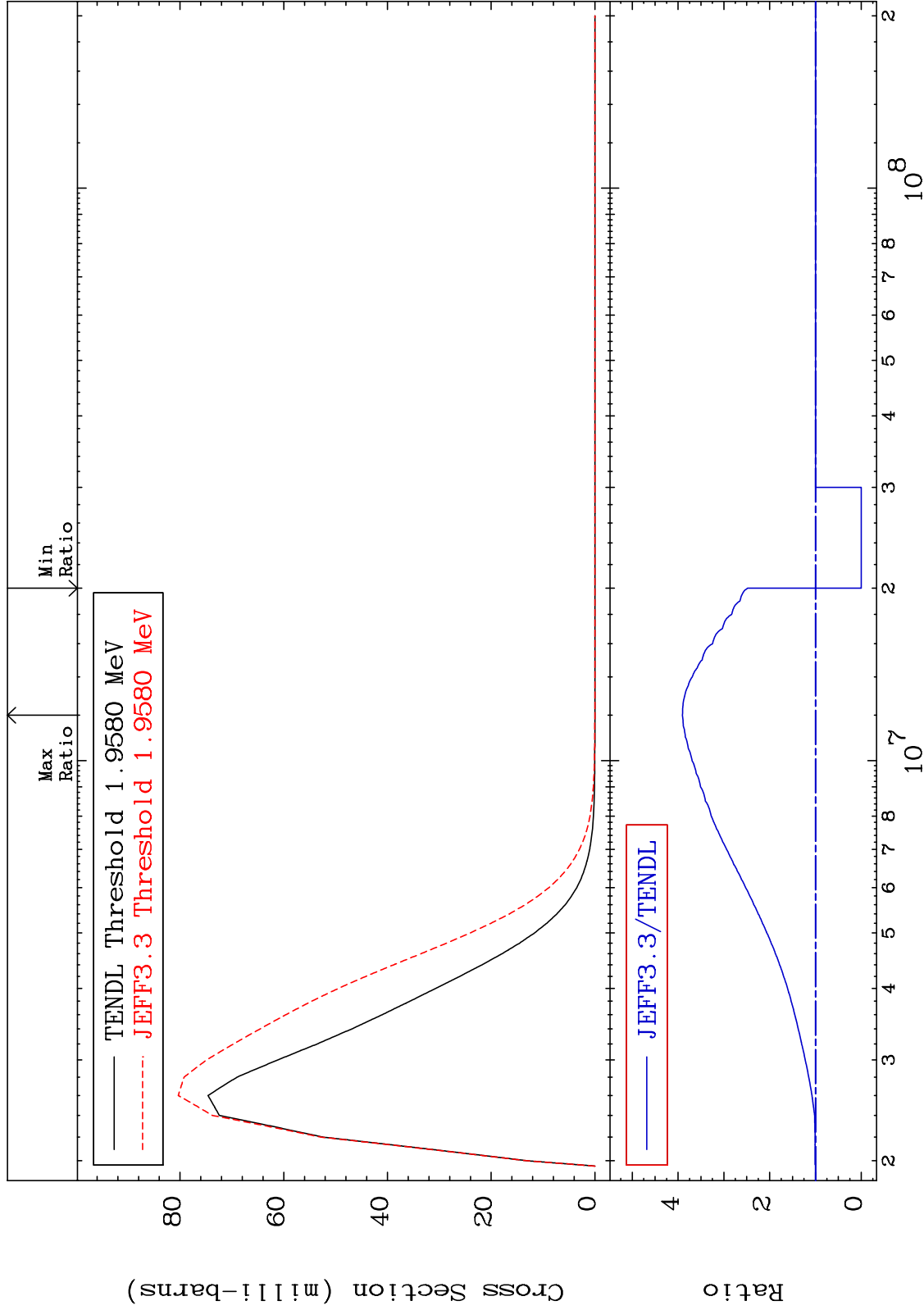
MAT 8225 MT= 65 (n,n') Level Cross Section 82-Pb-204  
 -100.0 To 136.1 %



MAT 8225

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

82-Pb-204  
-100.0 To 290.4 %

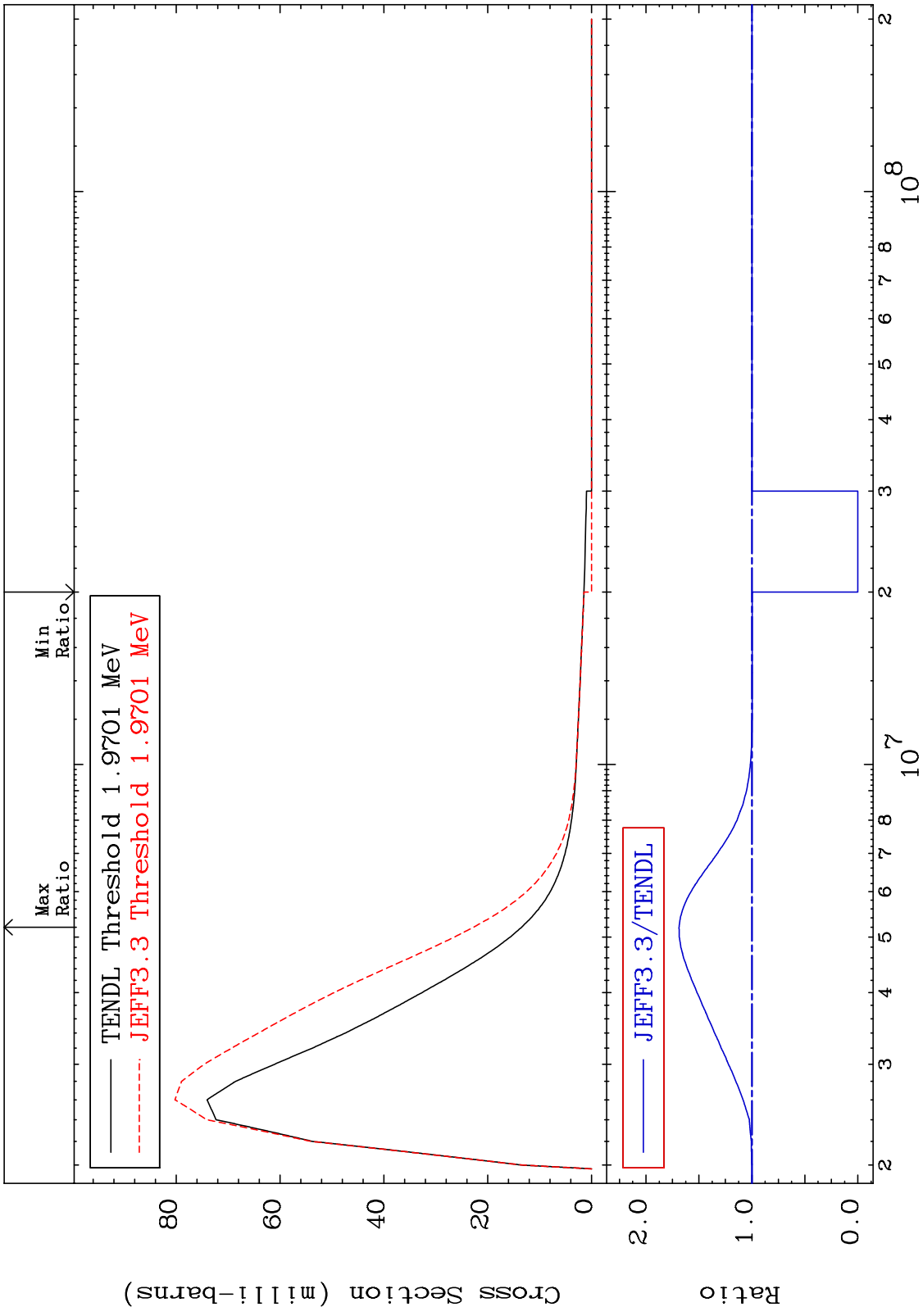


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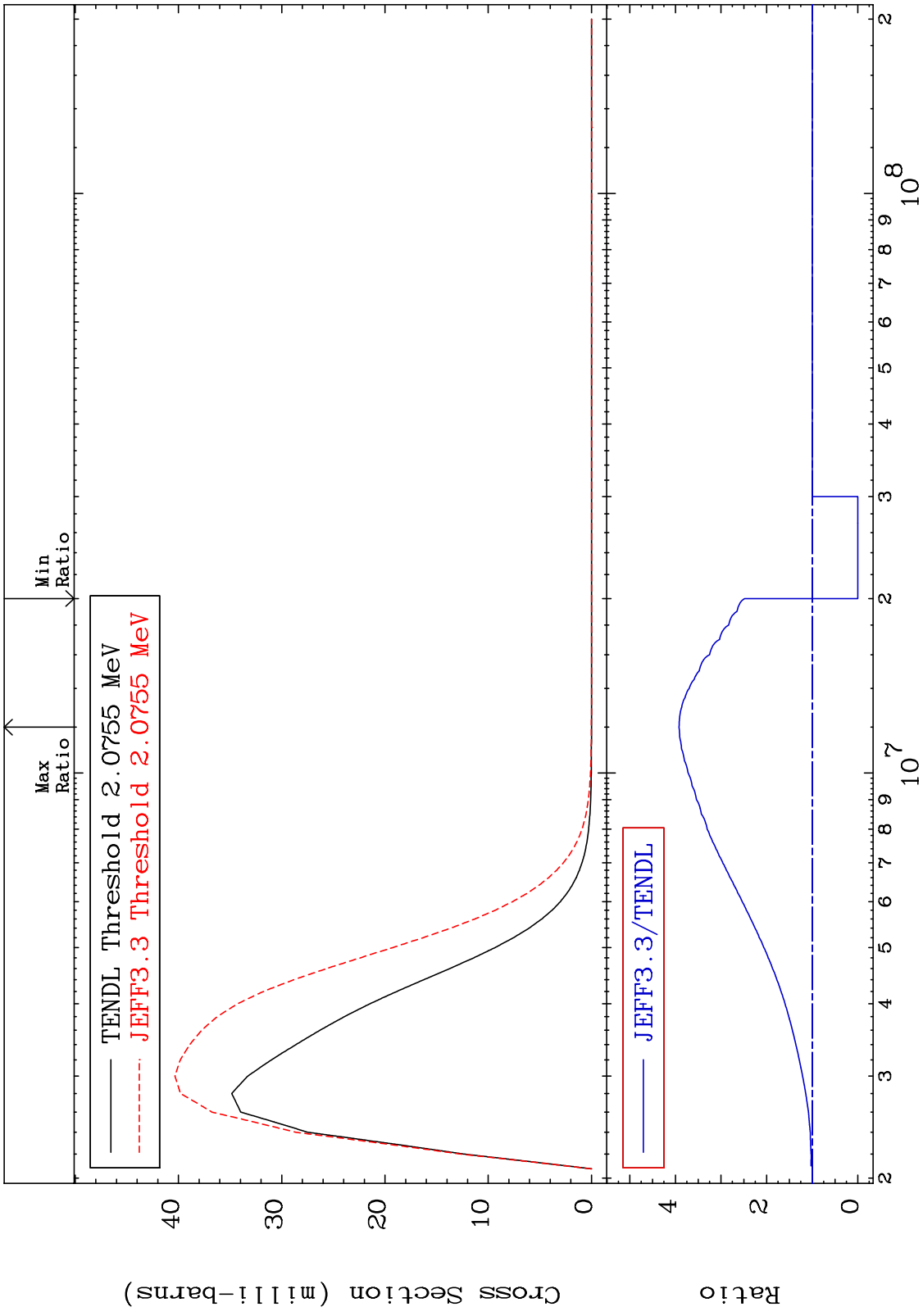
Incident Energy (eV)

82-Pb-204

MAT 8225 MT= 67 (n,n') Level Cross Section 82-Pb-204  
 -100.0 To 68.78 %

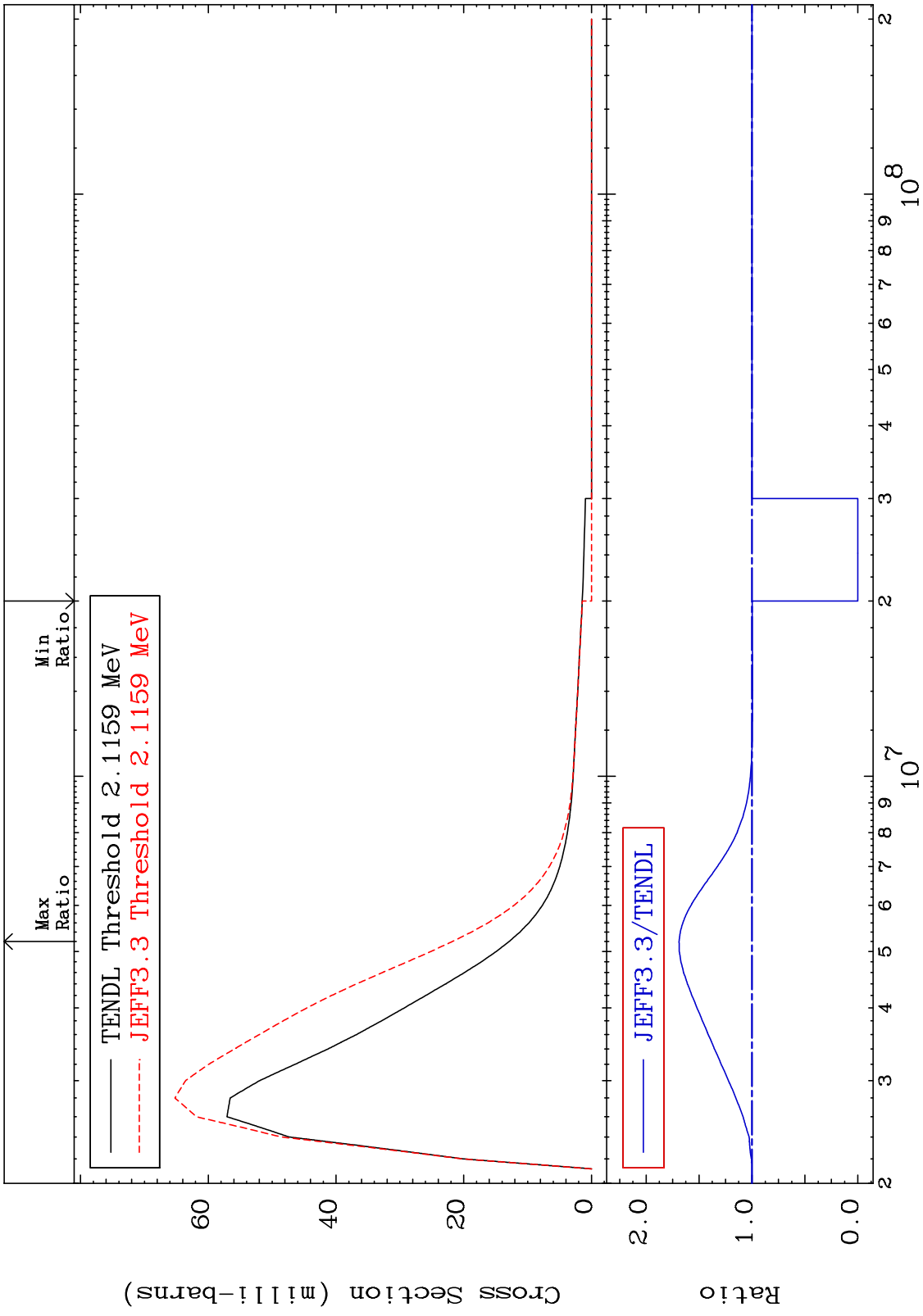


MAT 8225 MT= 68 (n,n') Level Cross Section 82-Pb-204  
-100.0 To 292.0 %



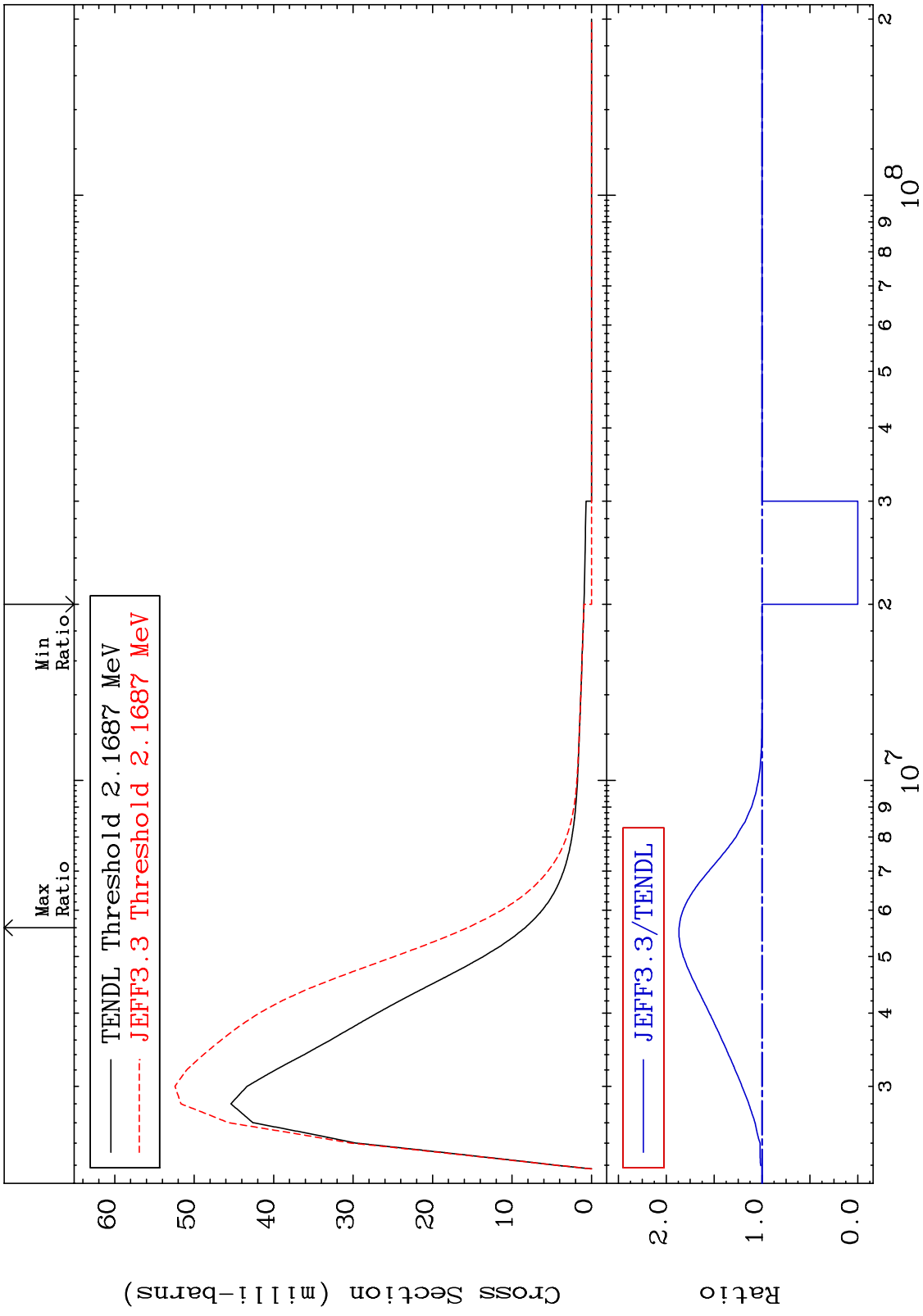
30 Incident Energy (eV) 82-Pb-204

MAT 8225 MT= 69 (n,n') Level Cross Section 82-Pb-204  
 -100.0 To 68.91 %

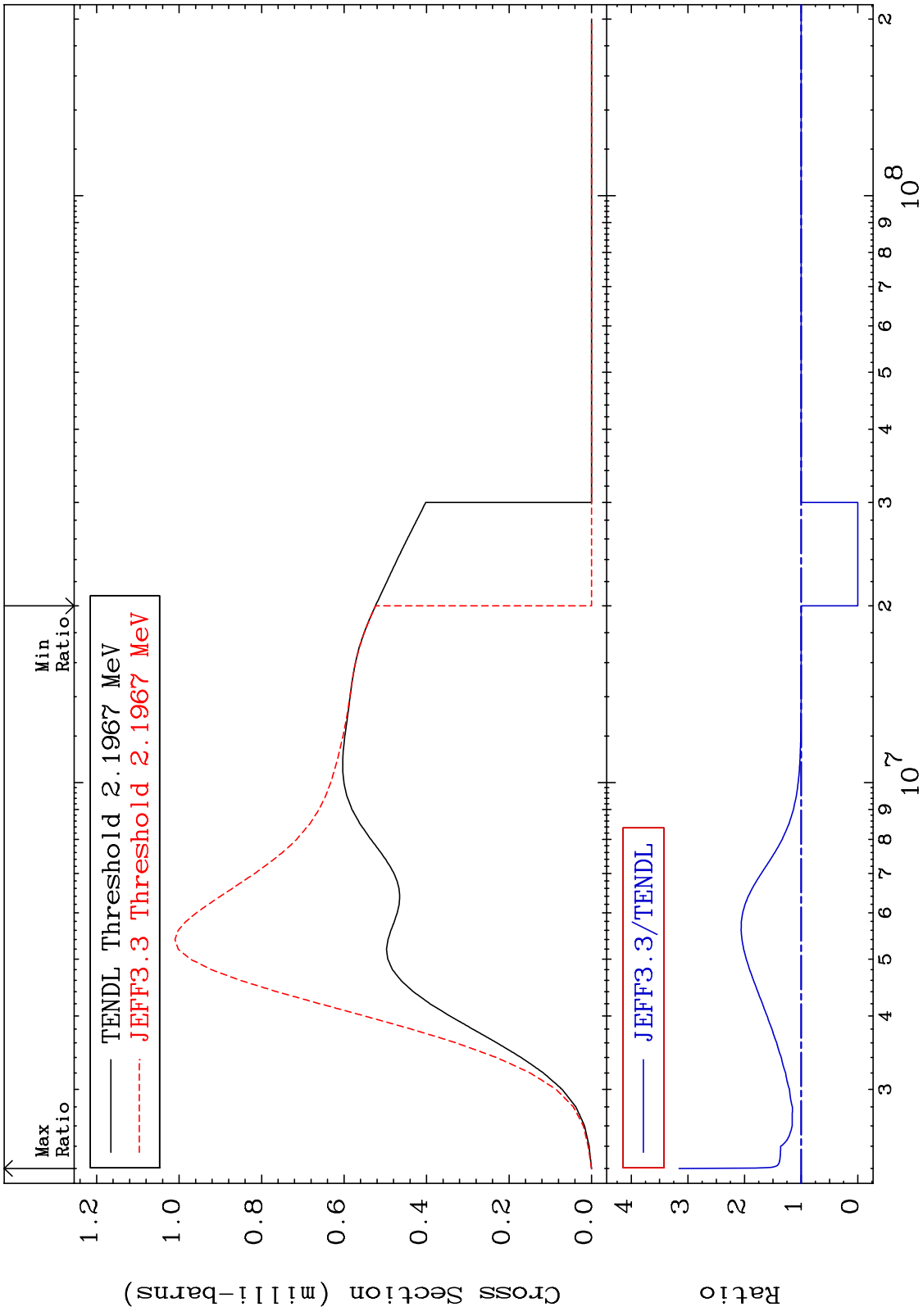




MAT 8225 MT= 70 (n,n') Level Cross Section -100.0 To 86.67 % 82-Pb-204

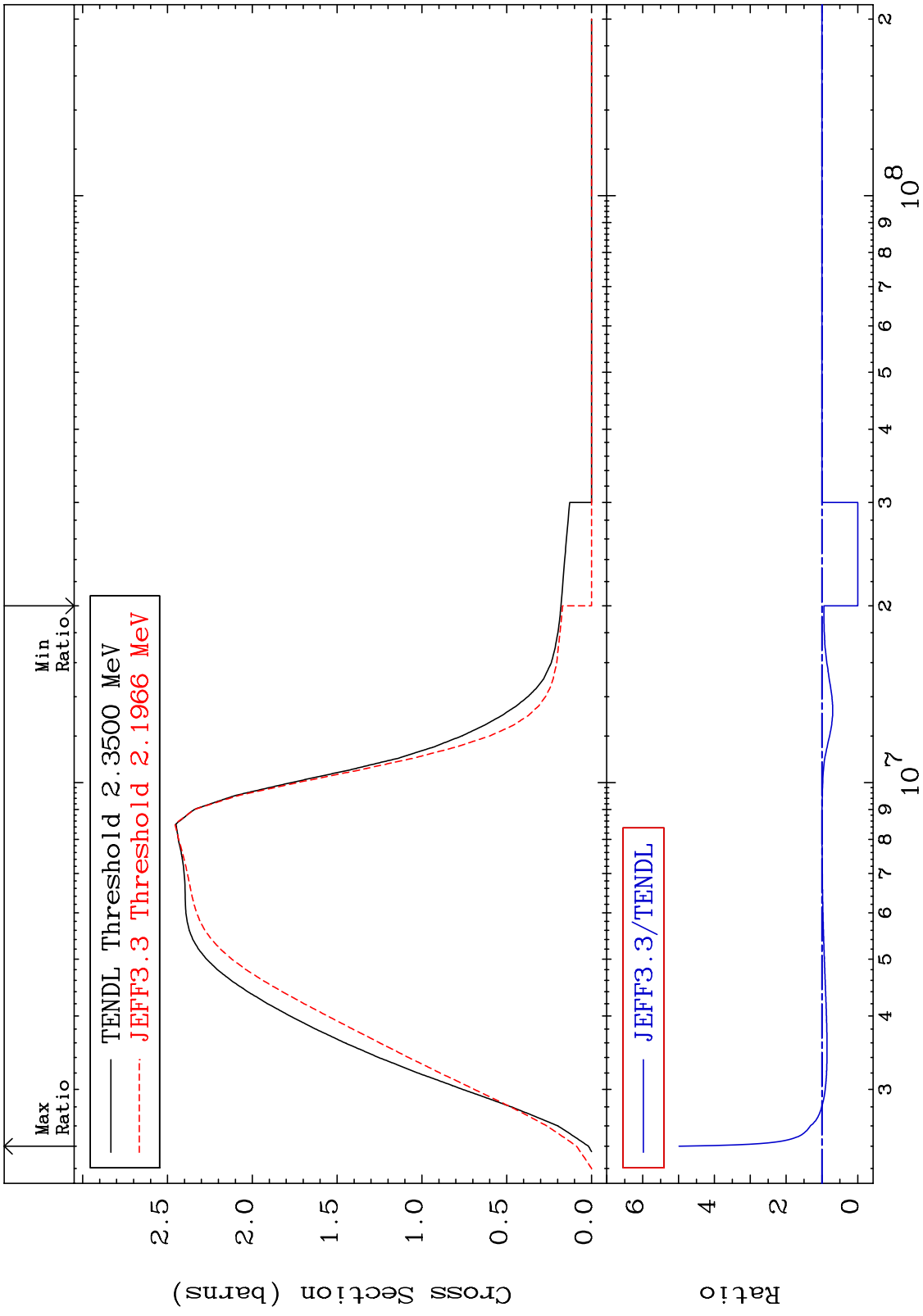


MAT 8225 MT= 71 (n,n') Level Cross Section -100.0 To 215.7 % 82-Pb-204



Incident Energy (eV) 82-Pb-204

MAT 8225 (n, n') Continuum Cross Section 82-Pb-204 -100.0 To 398.7 %



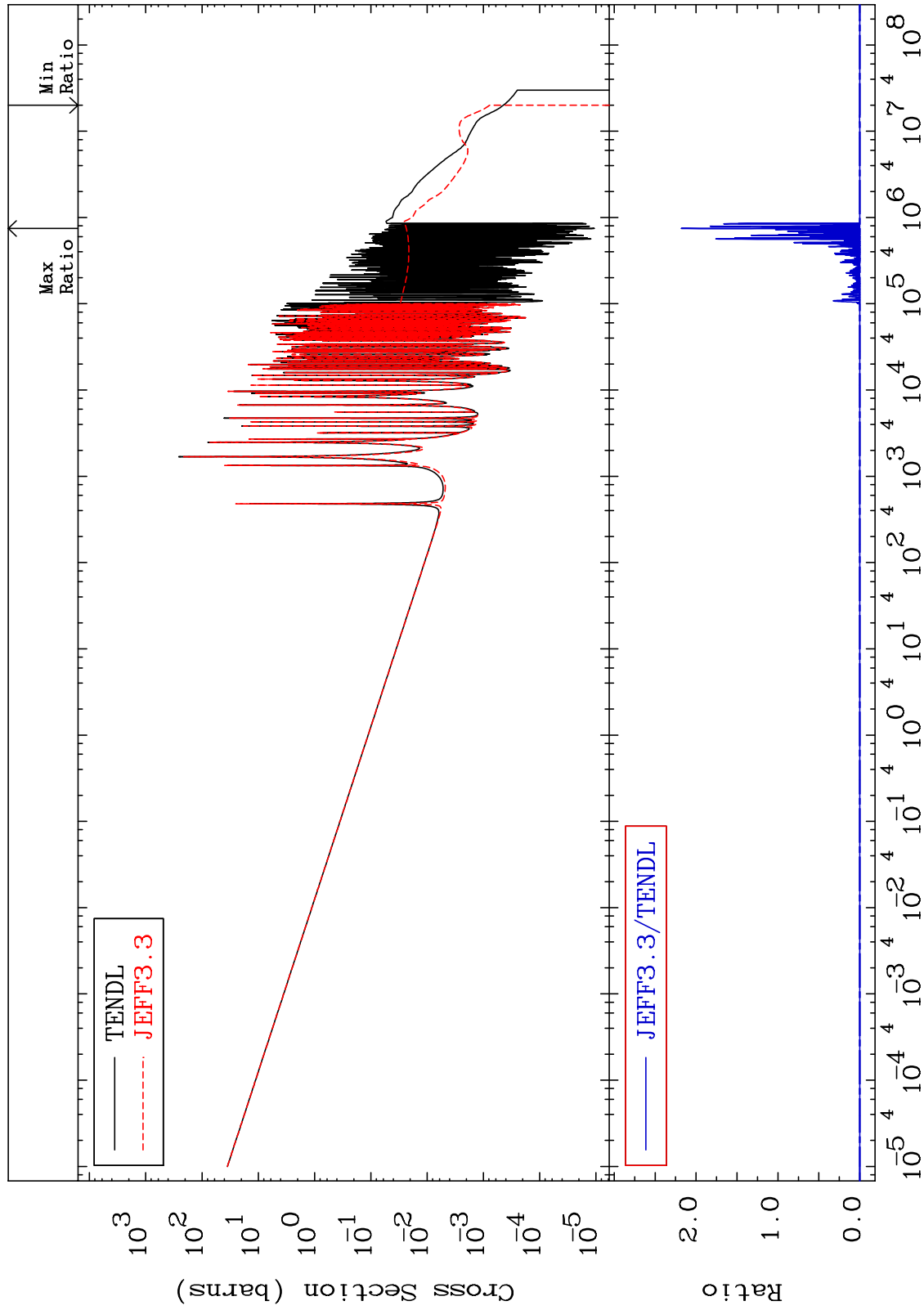
MAT 8225

(n,  $\gamma$ )

82-Pb-204

Cross Section

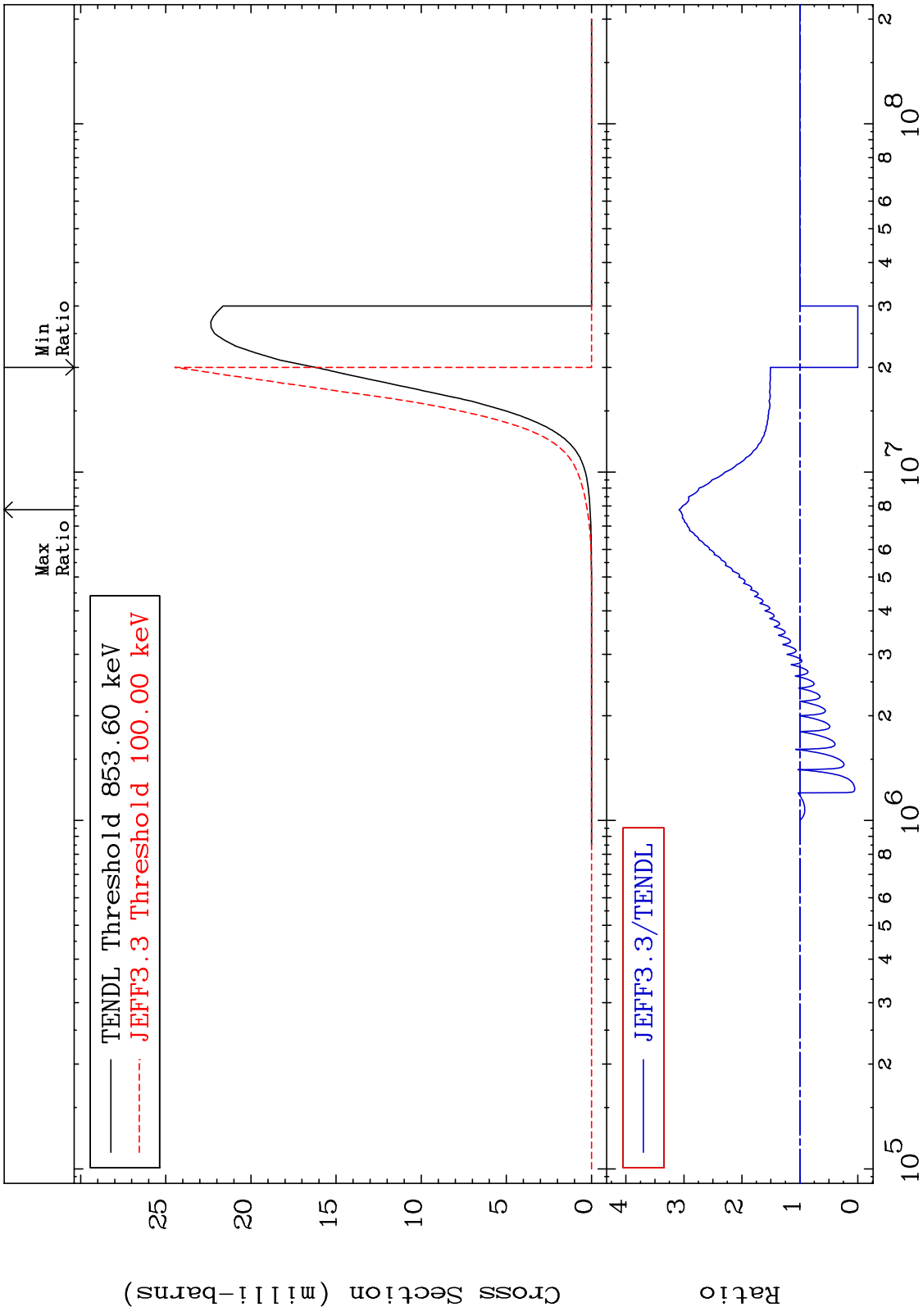
-100.0 To 9999. %



Incident Energy (eV)

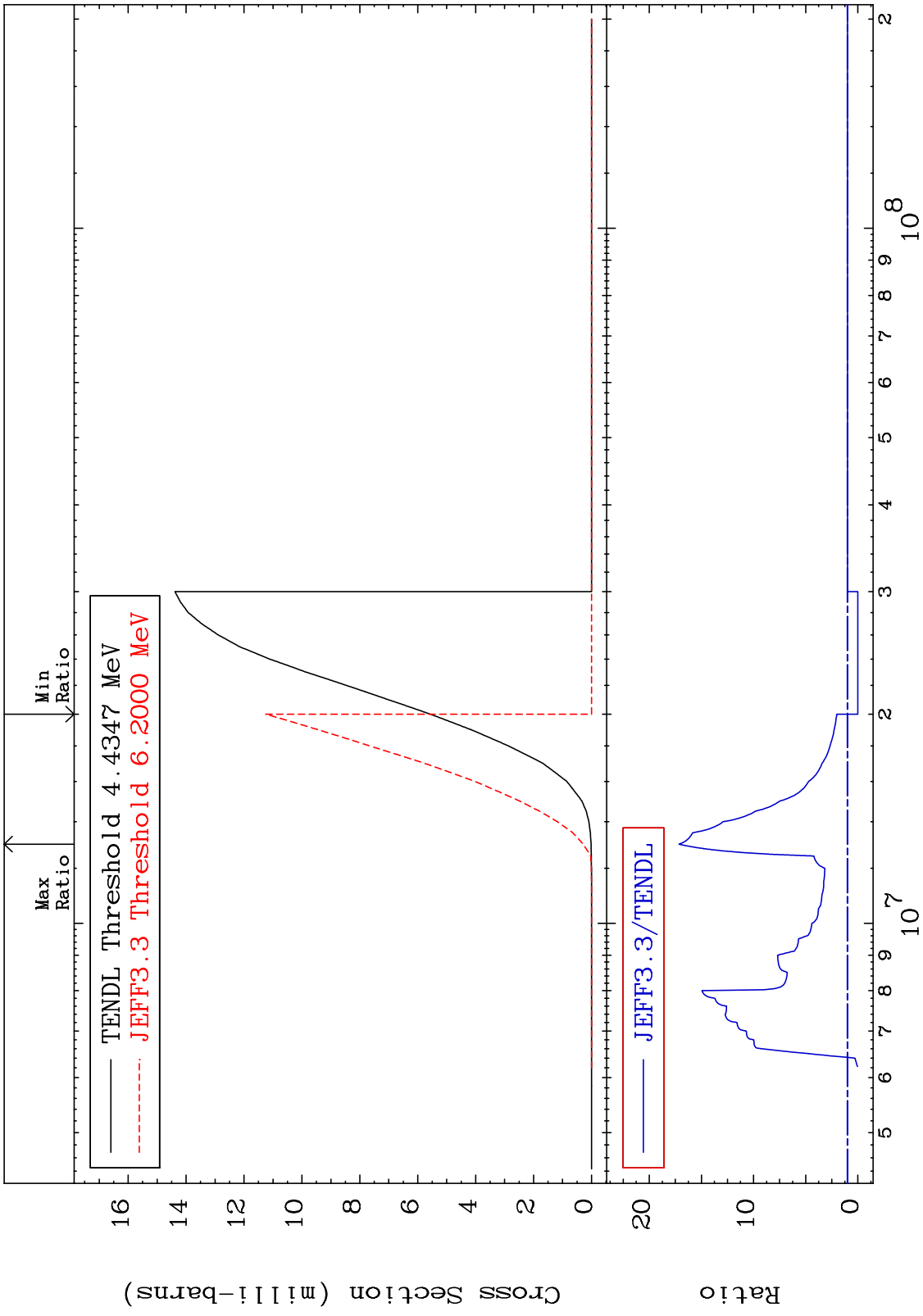
82-Pb-204

MAT 8225 (n,p) Cross Section 82-Pb-204 -100.0 To 208.4 %

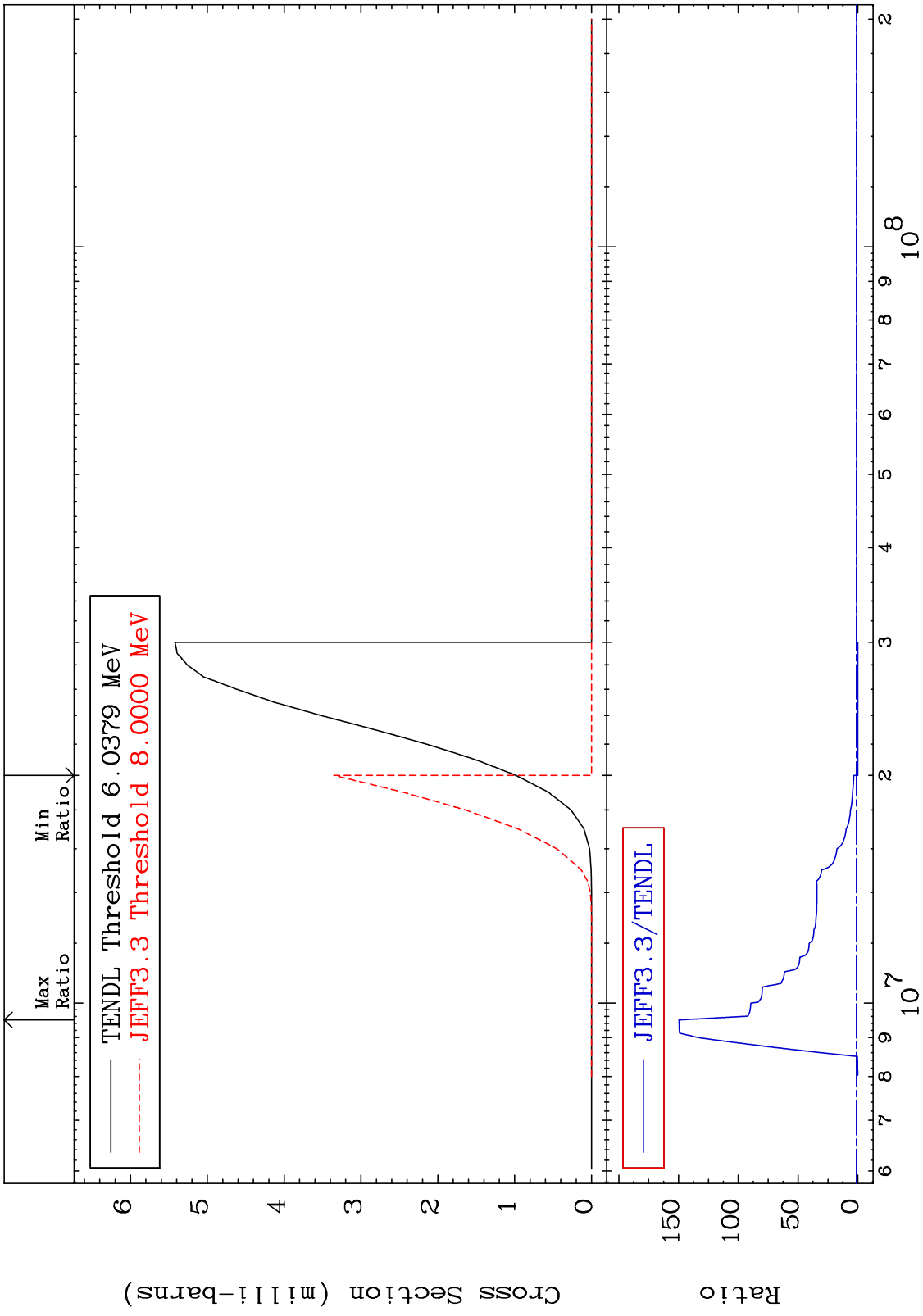


36 Incident Energy (eV) 82-Pb-204

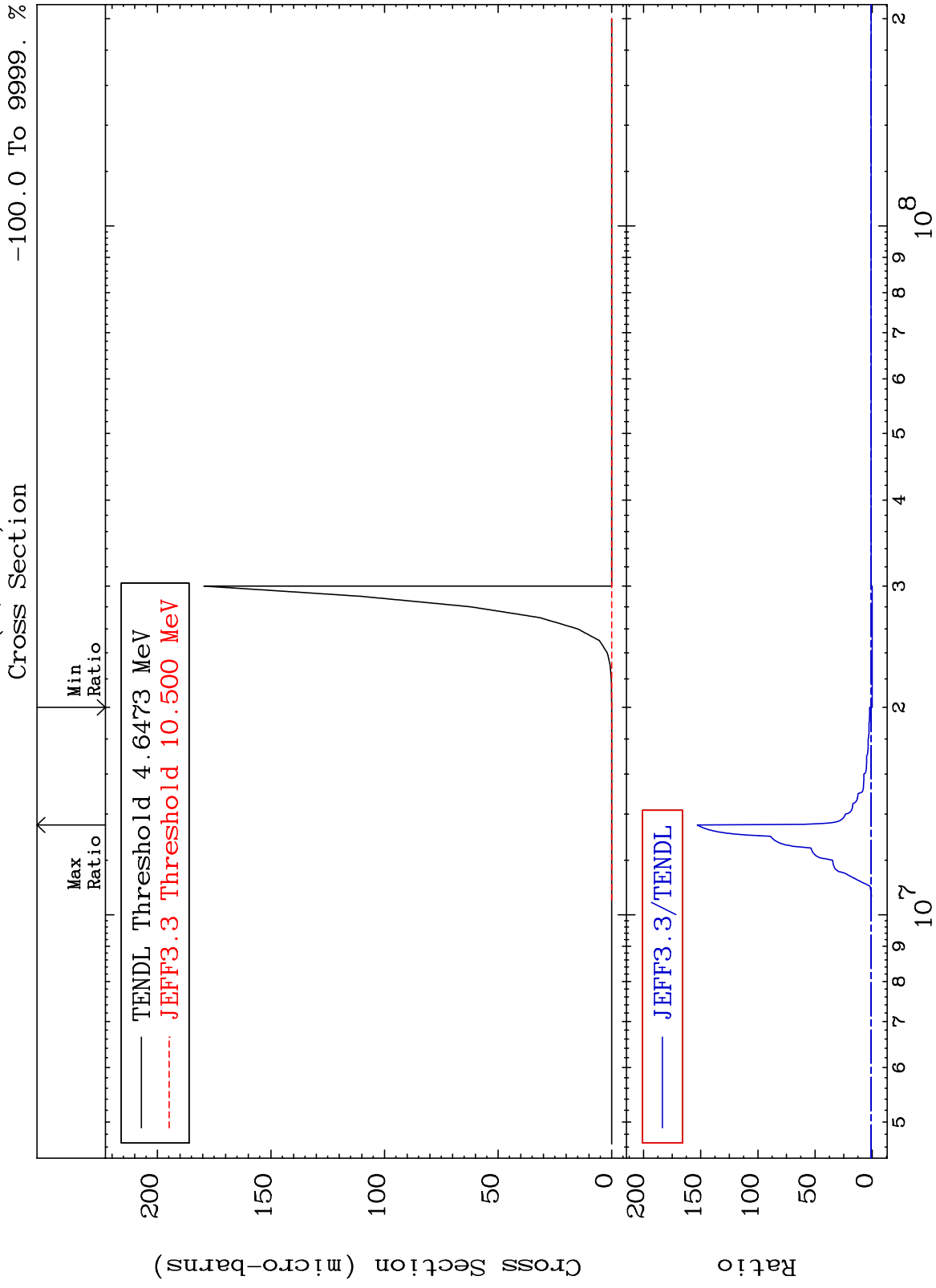
MAT 8225 (n,d) 82-Pb-204  
 Cross Section -100.0 To 1614. %



MAT 8225 (n,t) Cross Section 82-Pb-204 -100.0 To 9999. %



MAT 8225 (n, He-3) 82-Pb-204 -100.0 To 9999. %





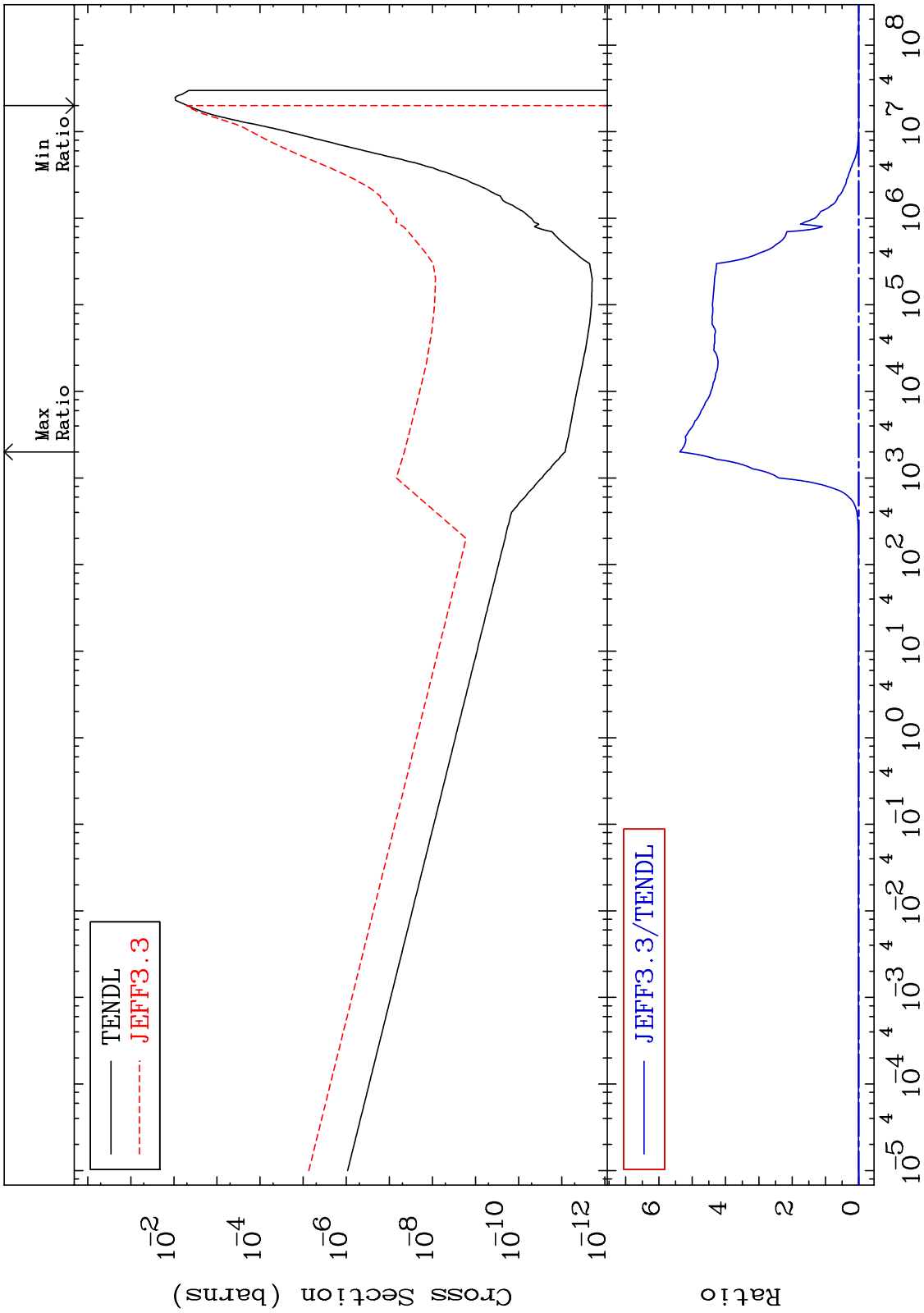
MAT 8225

(n,  $\alpha$ )

82-Pb-204

Cross Section

-100.0 To 9999. %

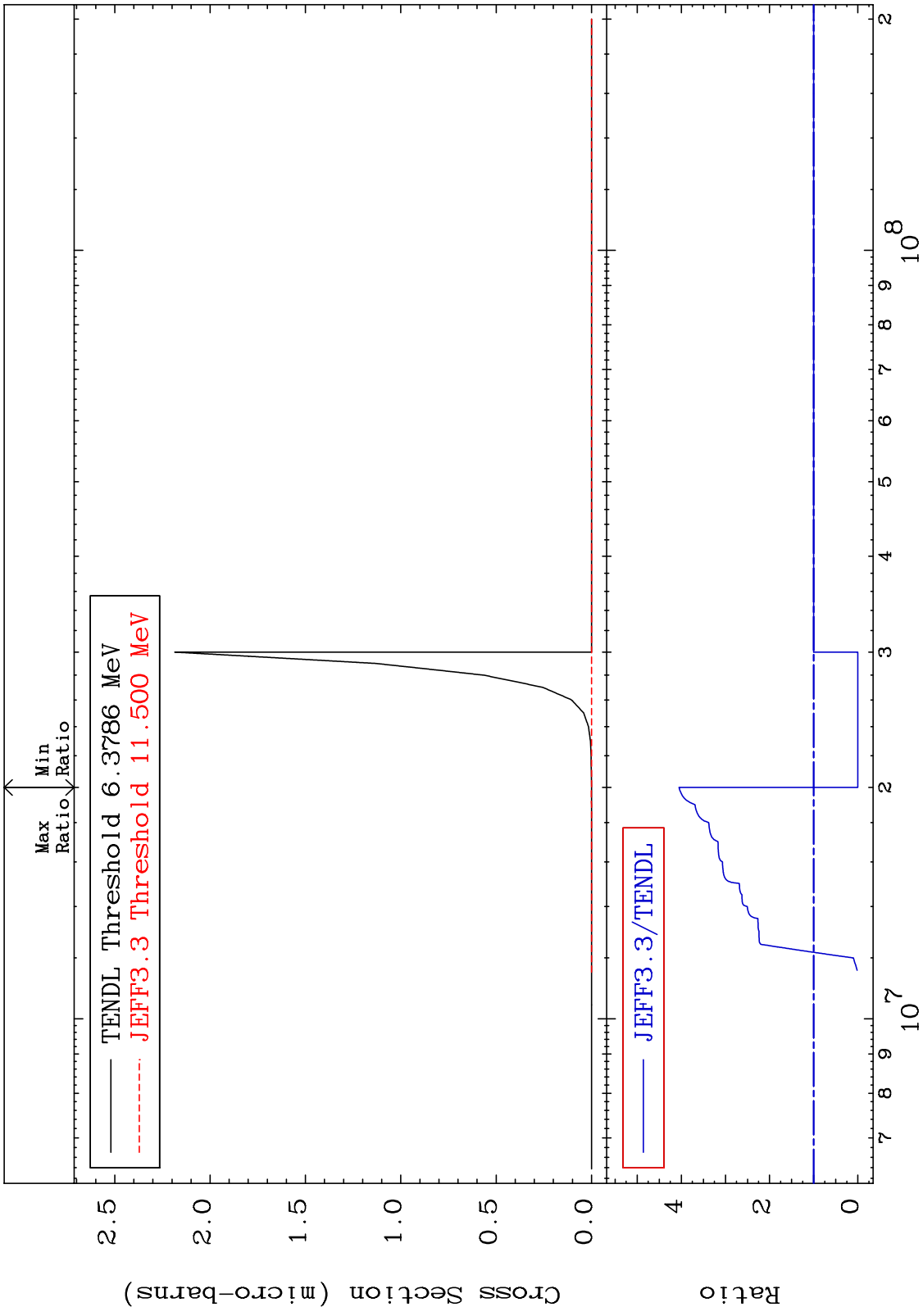


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Incident Energy (eV)

82-Pb-204

MAT 8225 82-Pb-204  
 Cross Section -100.0 To 305.1 %

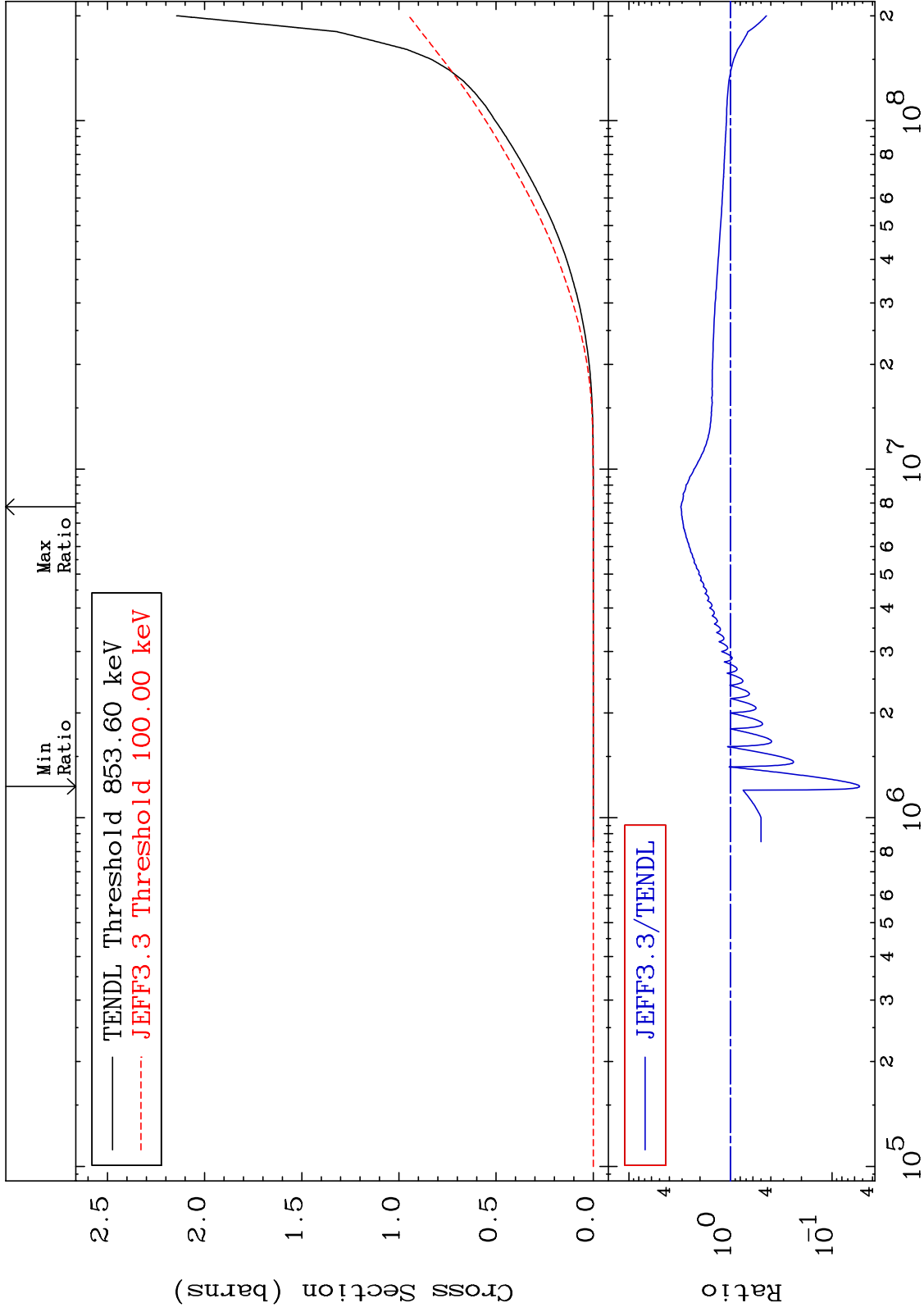


Incident Energy (eV) 82-Pb-204

MAT 8225

Hydrogen Production  
Cross Section

82-Pb-204  
-94.66 To 208.4 %

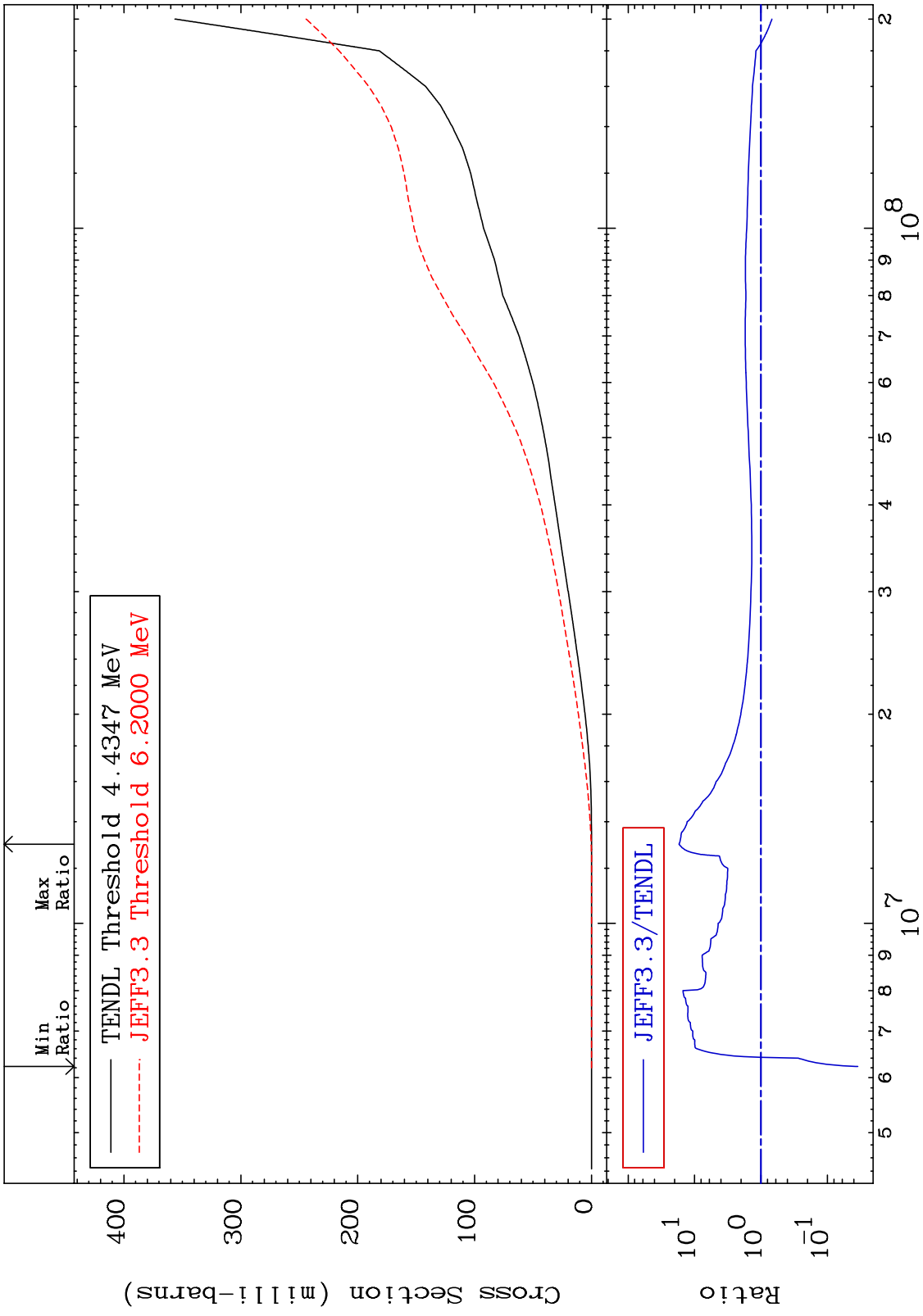


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Incident Energy (eV)

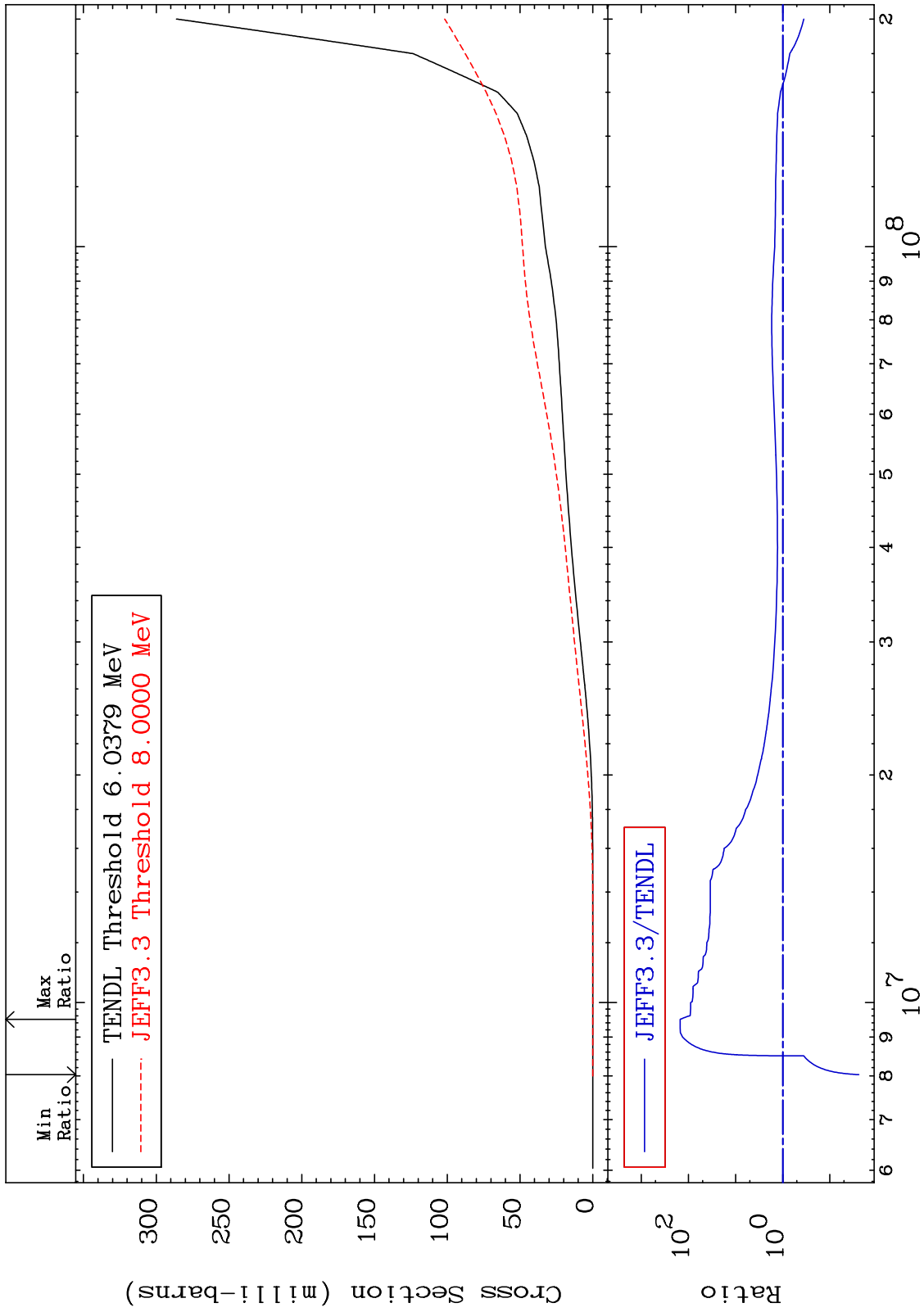
82-Pb-204

MAT 8225 Deuterium Production Cross Section 82-Pb-204 -96.51 To 1614. %



43 Incident Energy (eV) 82-Pb-204

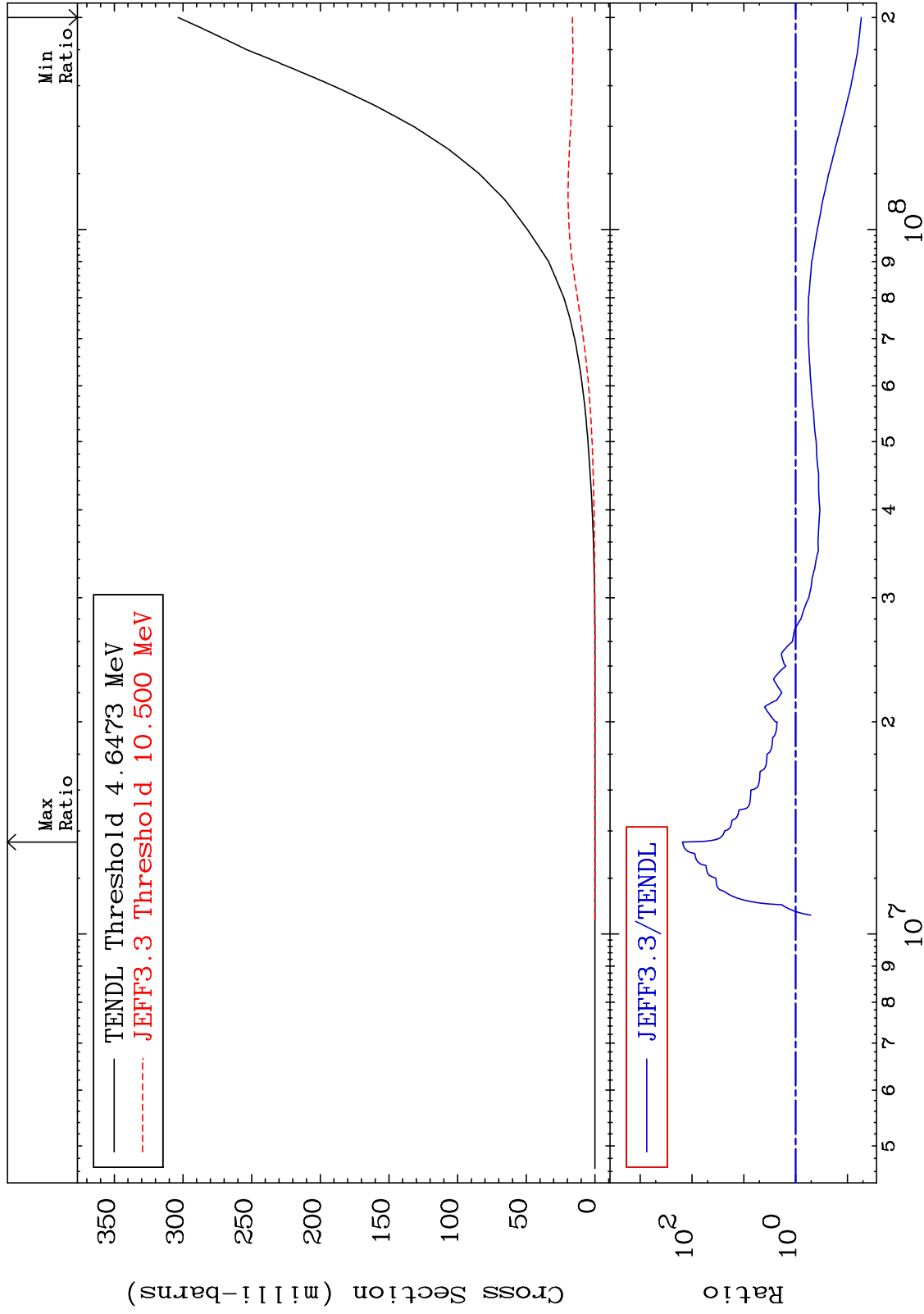
MAT 8225 Tritium Production Cross Section 82-Pb-204 -97.58 To 9999. %



MAT 8225

He-3 Production  
Cross Section

82-Pb-204  
-94.59 To 9999. %



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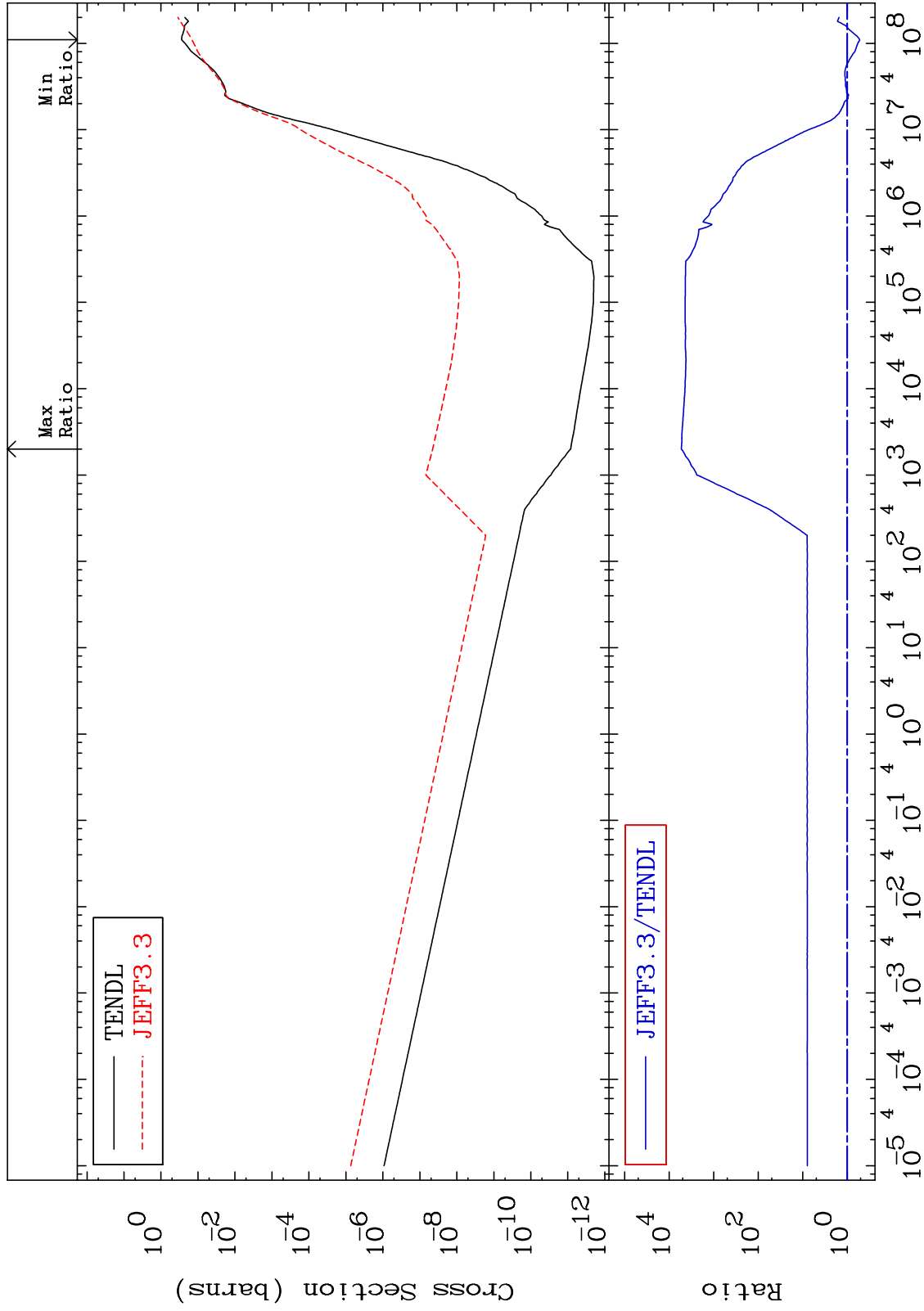
Incident Energy (eV)

82-Pb-204

MAT 8225

He-4 Production  
Cross Section

82-Pb-204  
-47.55 To 9999. %

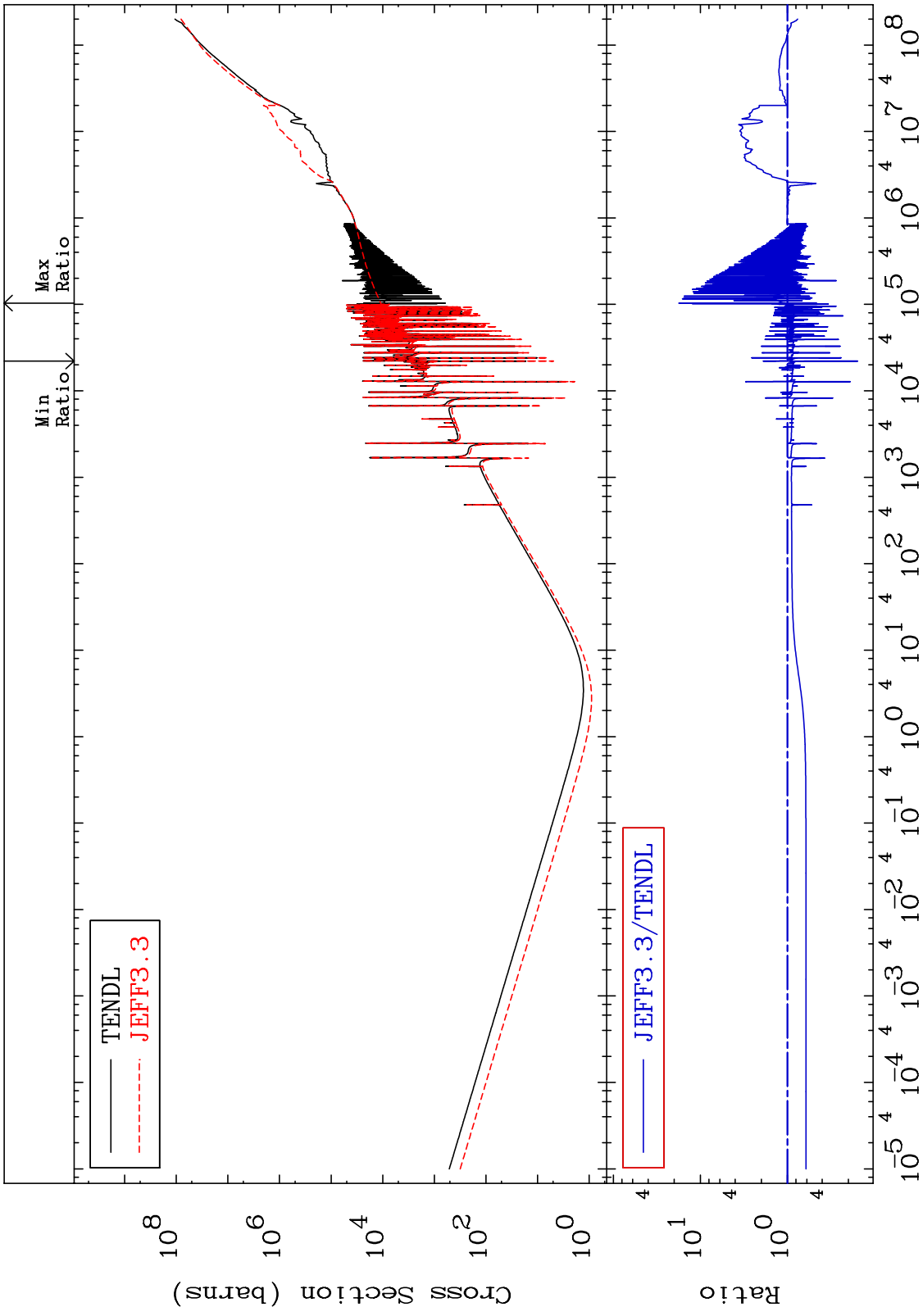


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Incident Energy (eV)

82-Pb-204

MAT 8225      Kerma total (eV-barns)  
 Cross Section      82-Pb-204  
 -84.45 To 1662. %

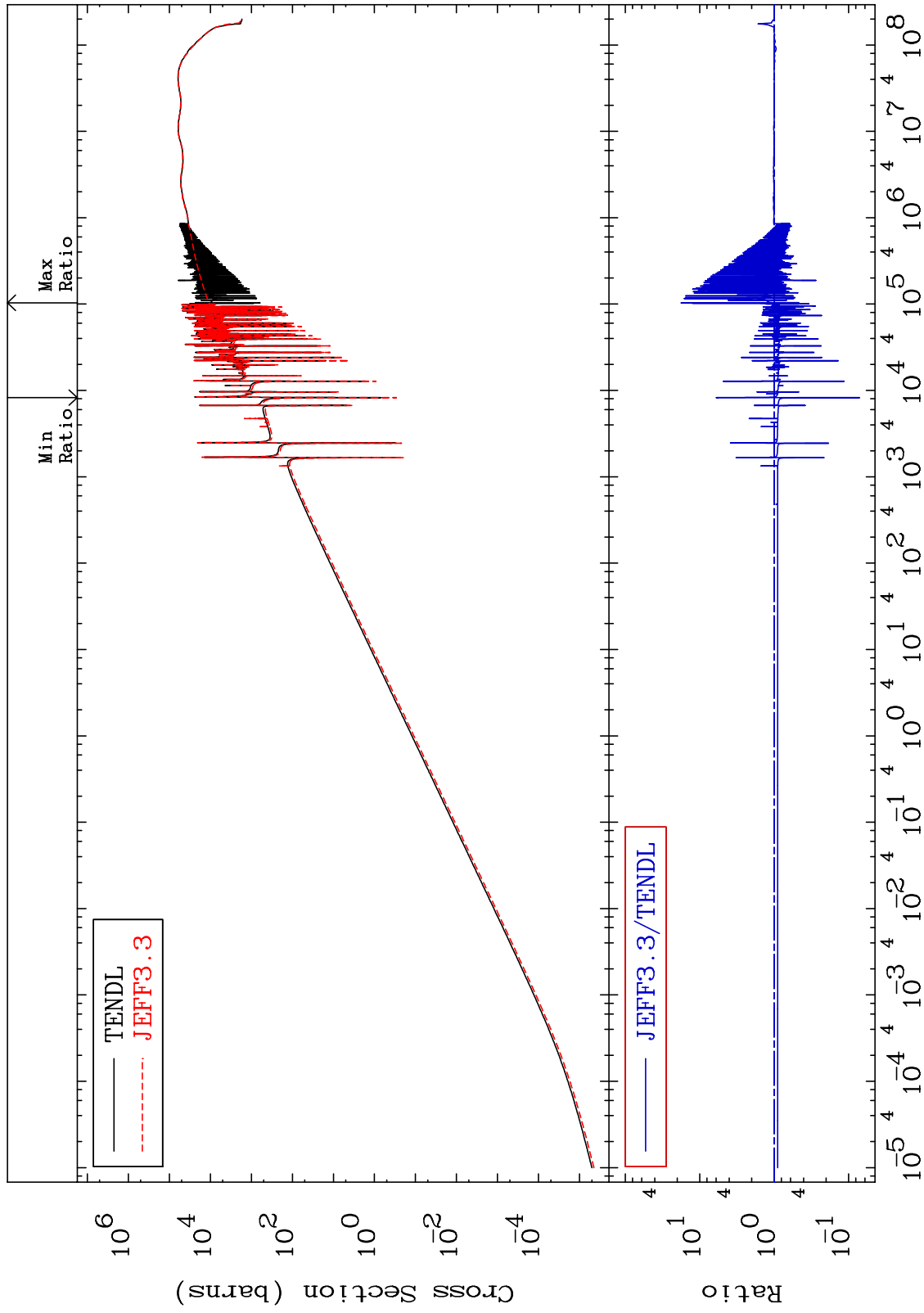




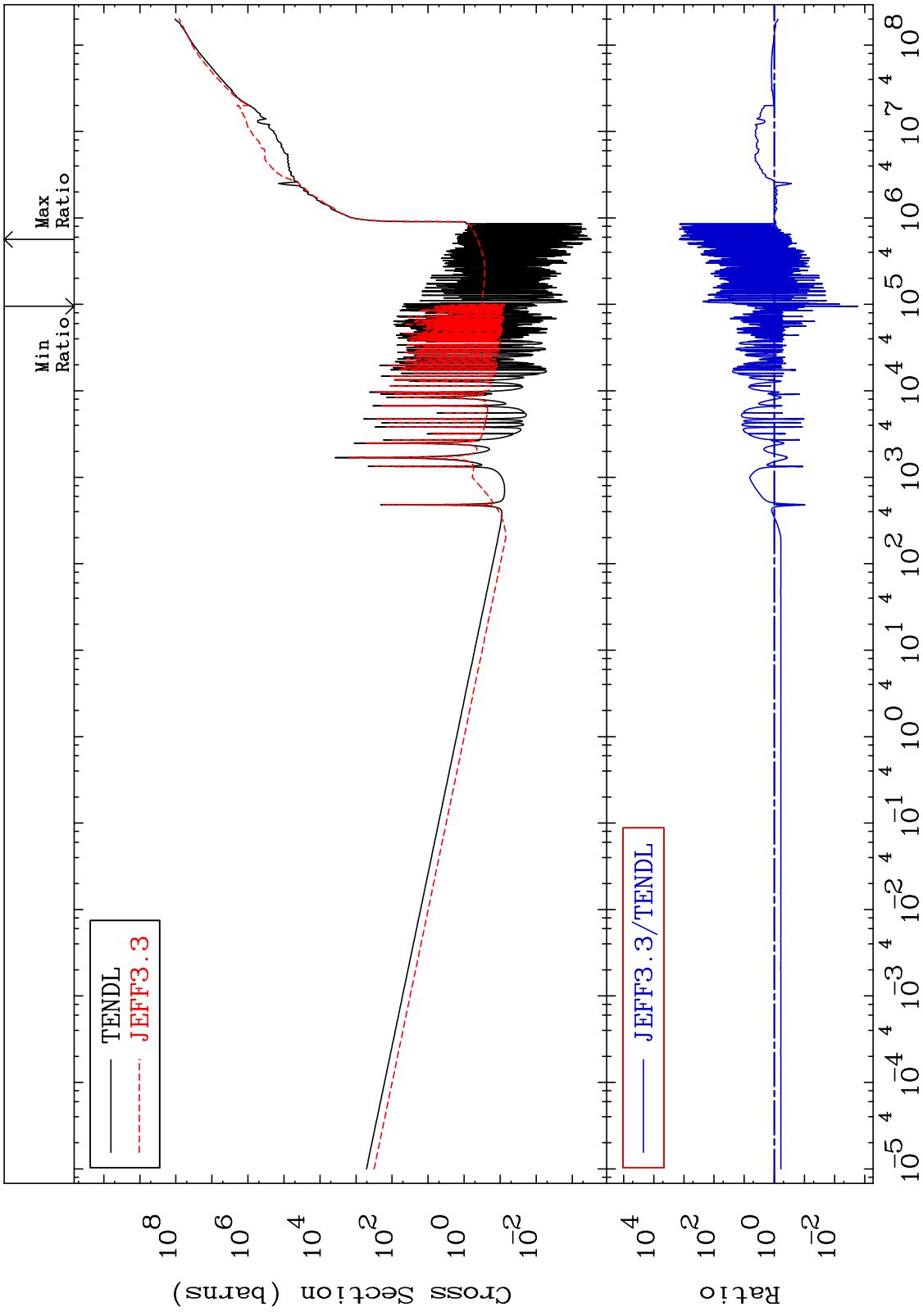
MAT 8225

Kerma elastic  
Cross Section

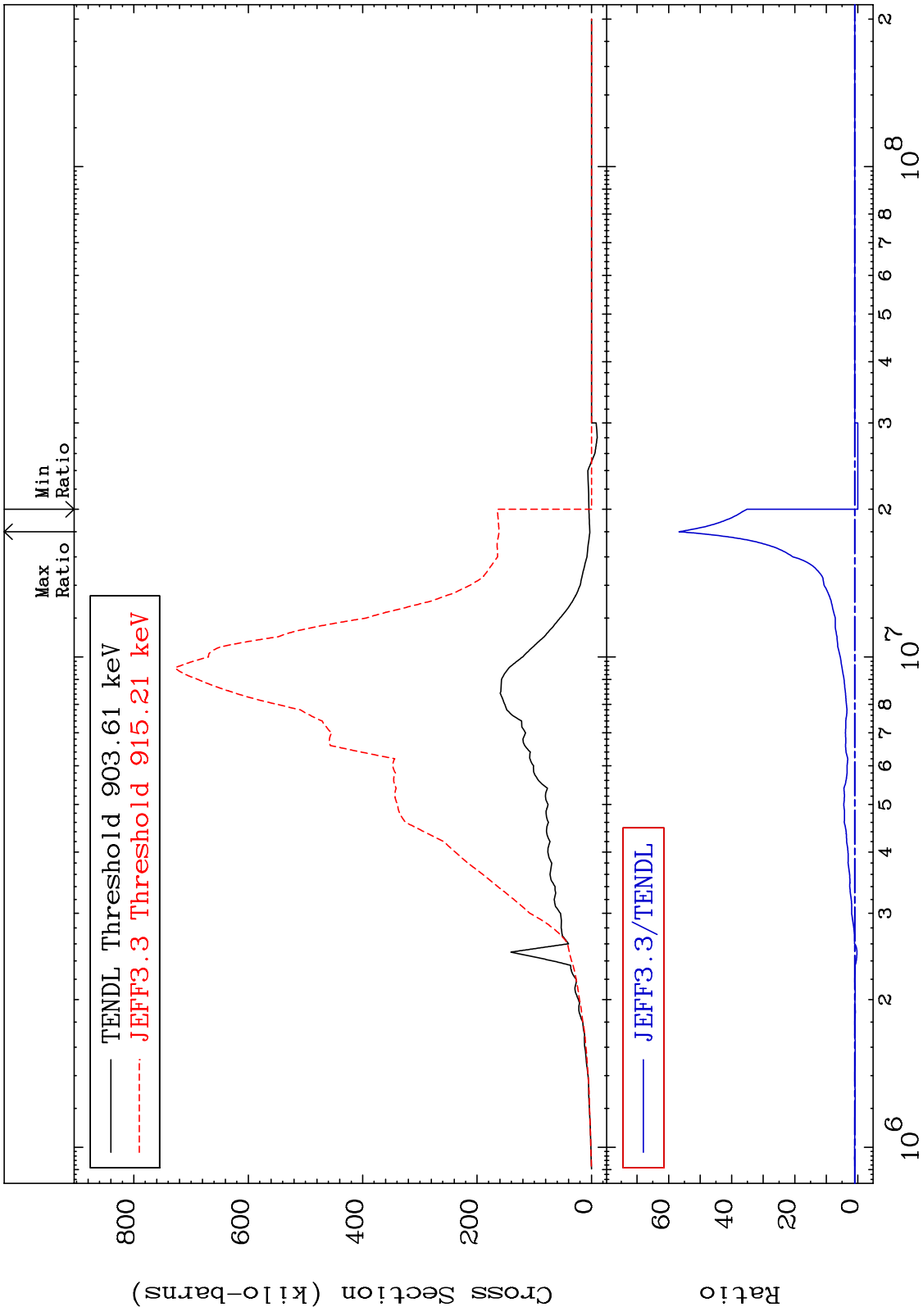
82-Pb-204  
-92.94 To 1667. %



MAT 8225      Kerma non-elastic (all but mt2)      82-Pb-204  
 Cross Section      -99.83 To 9999. %



MAT 8225      Kerma inelastic (mt51-91)      82-Pb-204  
-100.0 To 5569. %

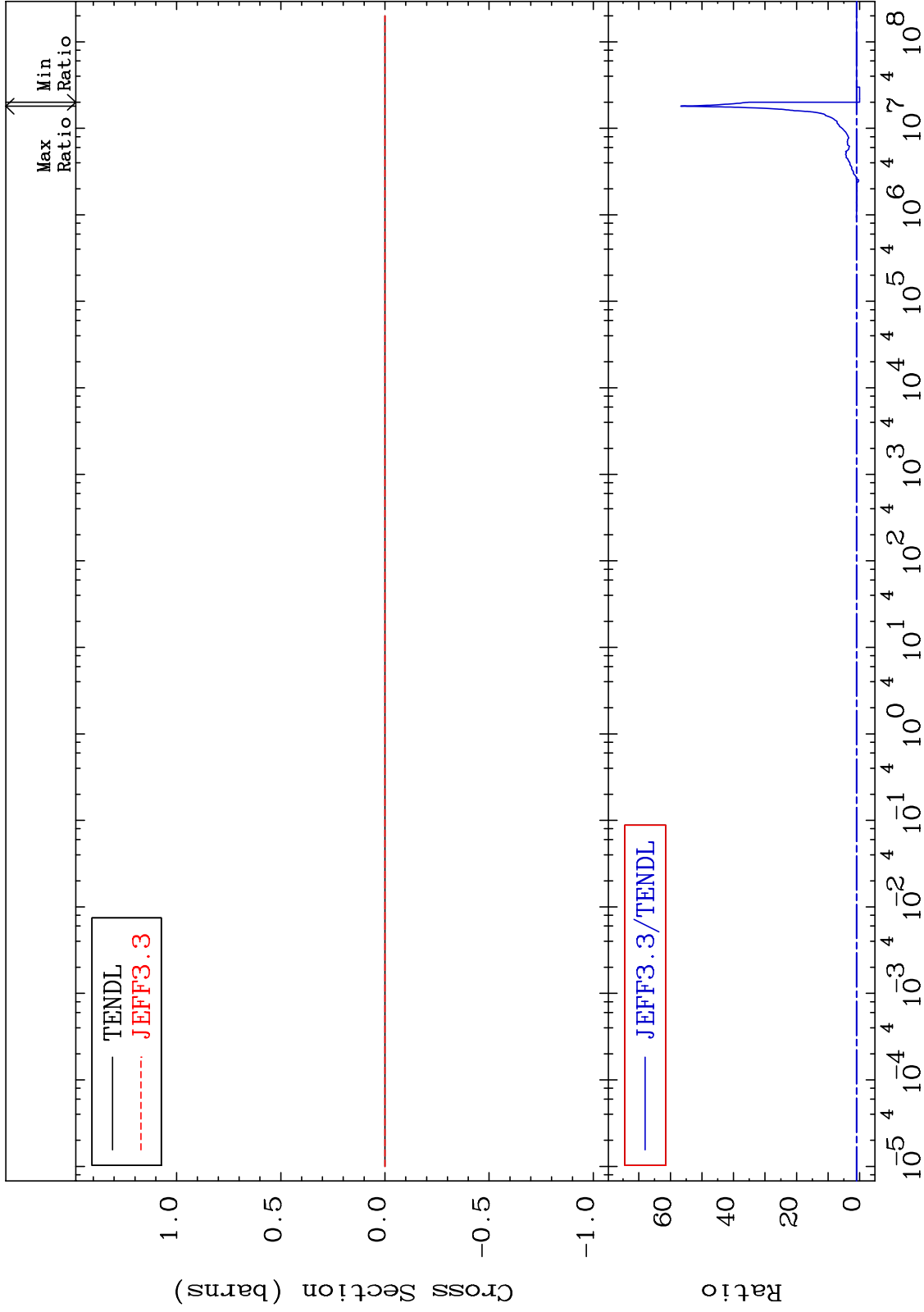


50      10<sup>6</sup>      10<sup>7</sup>      10<sup>8</sup>      82-Pb-204

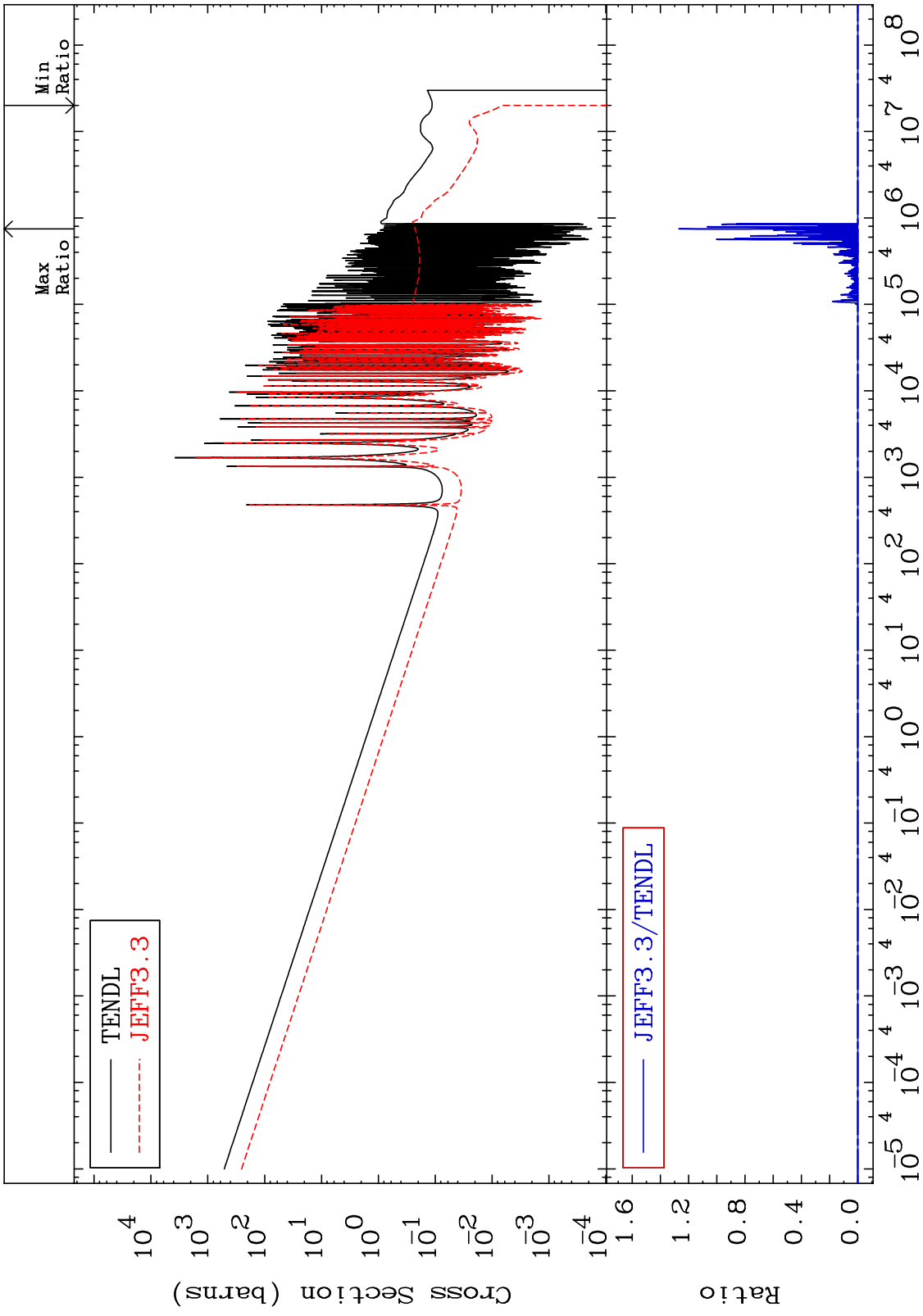
MAT 8225

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

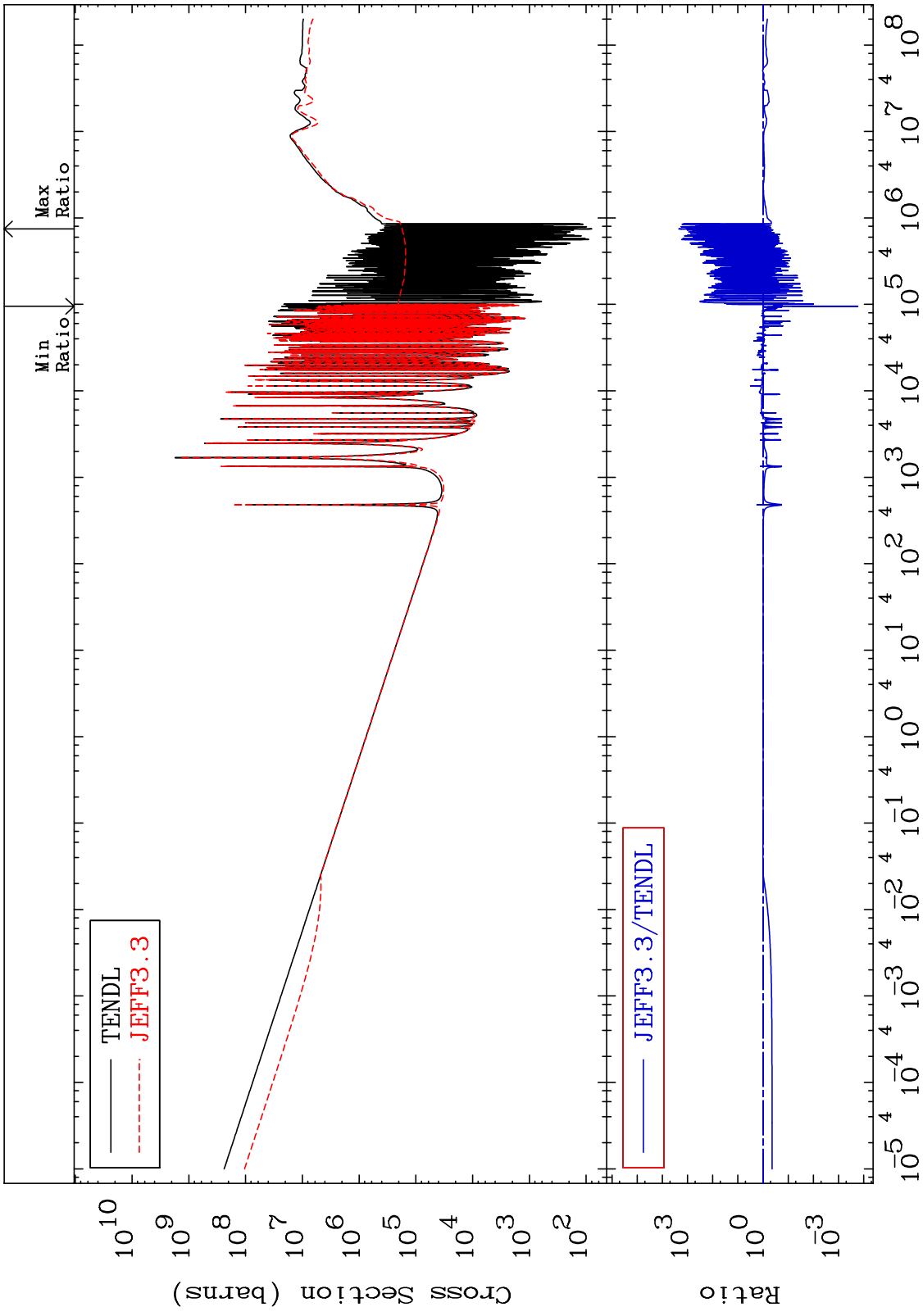
82-Pb-204  
-100.0 To 5569. %



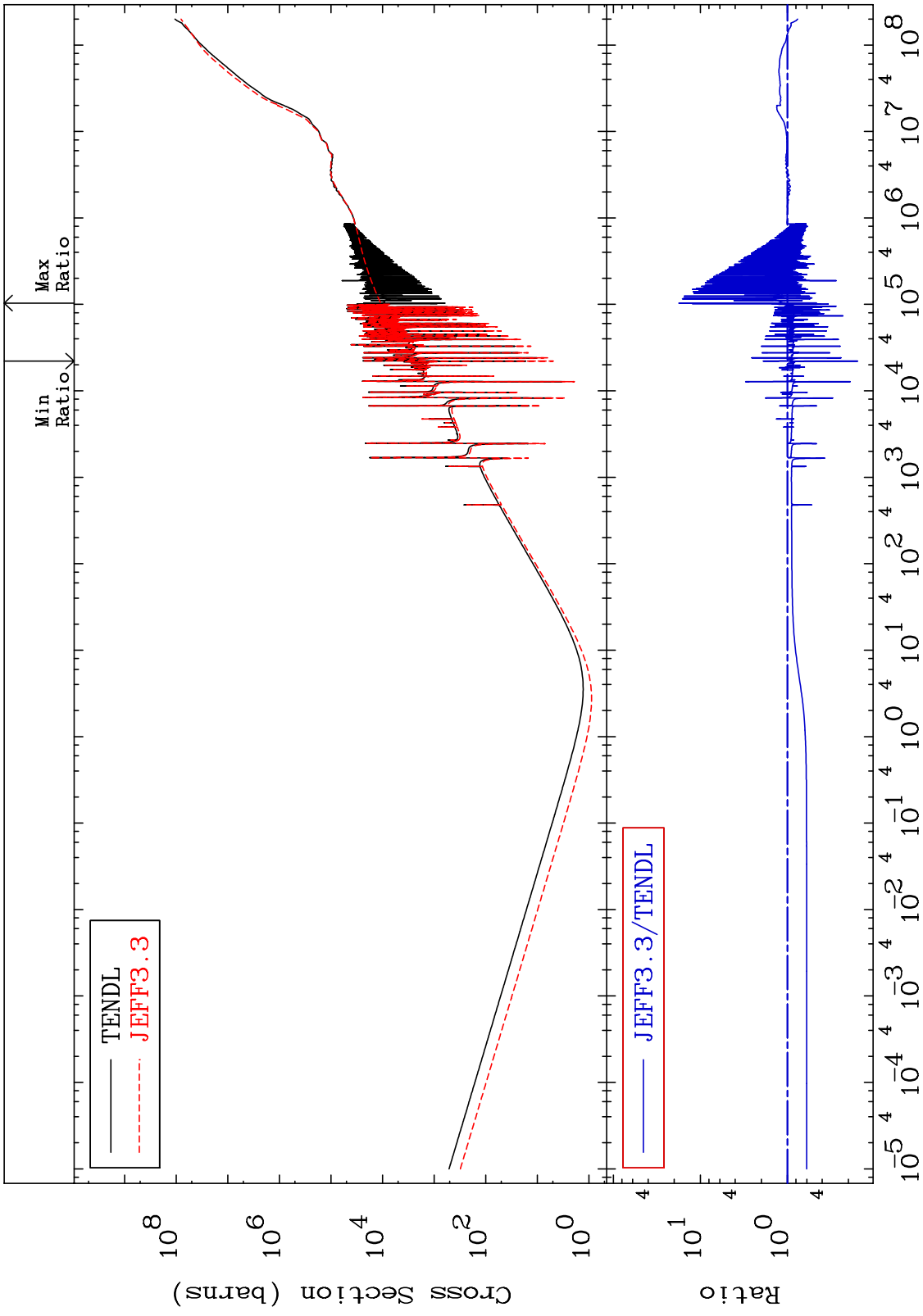
MAT 8225      Kerma capture (mt102)      82-Pb-204  
Cross Section      -100.0 To 9999. %



MAT 8225 82-Pb-204  
 Total photon (eV-barns) -99.98 To 9999. %  
 Cross Section



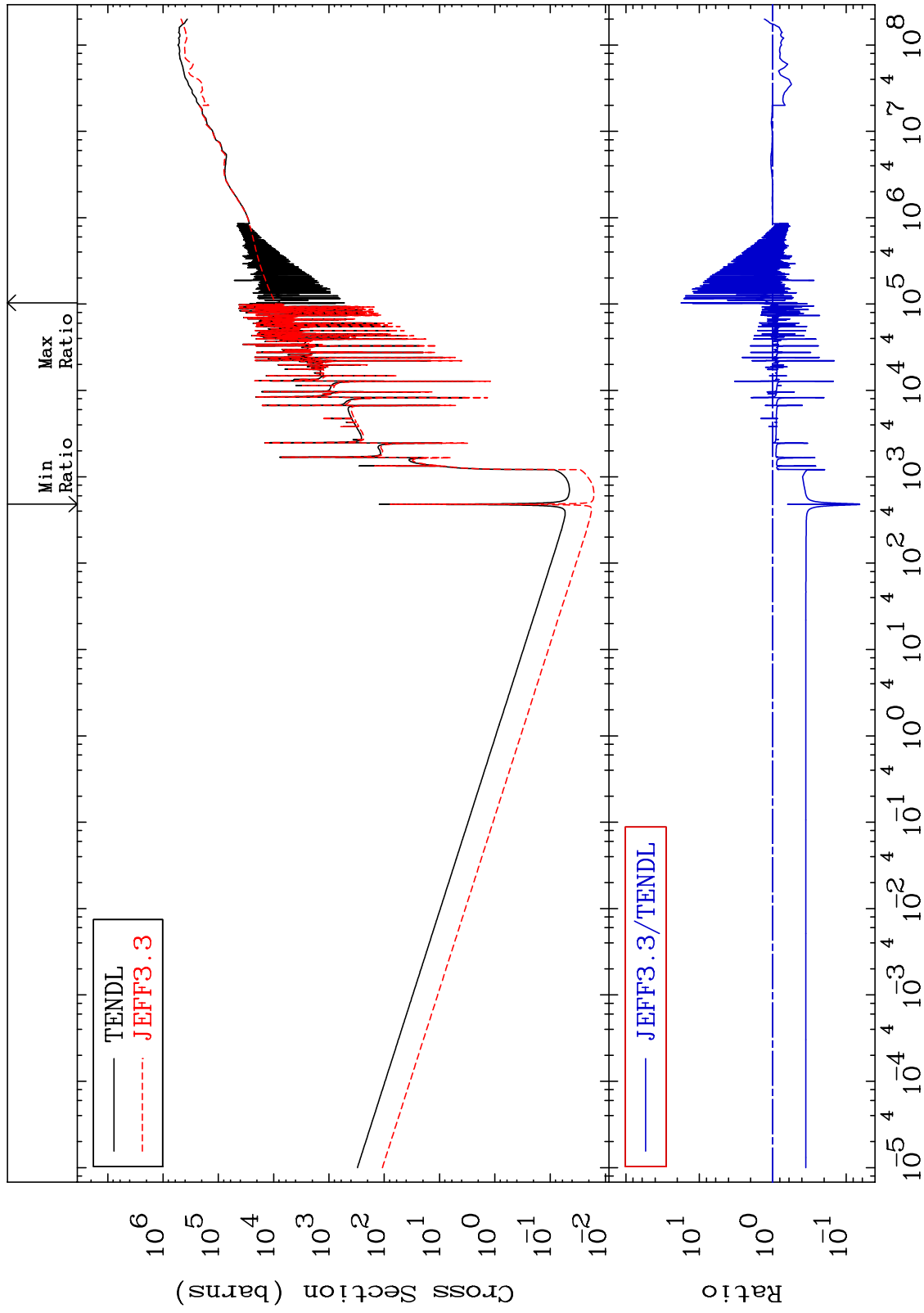
MAT 8225      Total kinematic kerma (high limit)      82-Pb-204  
 Cross Section      -84.45 To 1662. %



MAT 8225

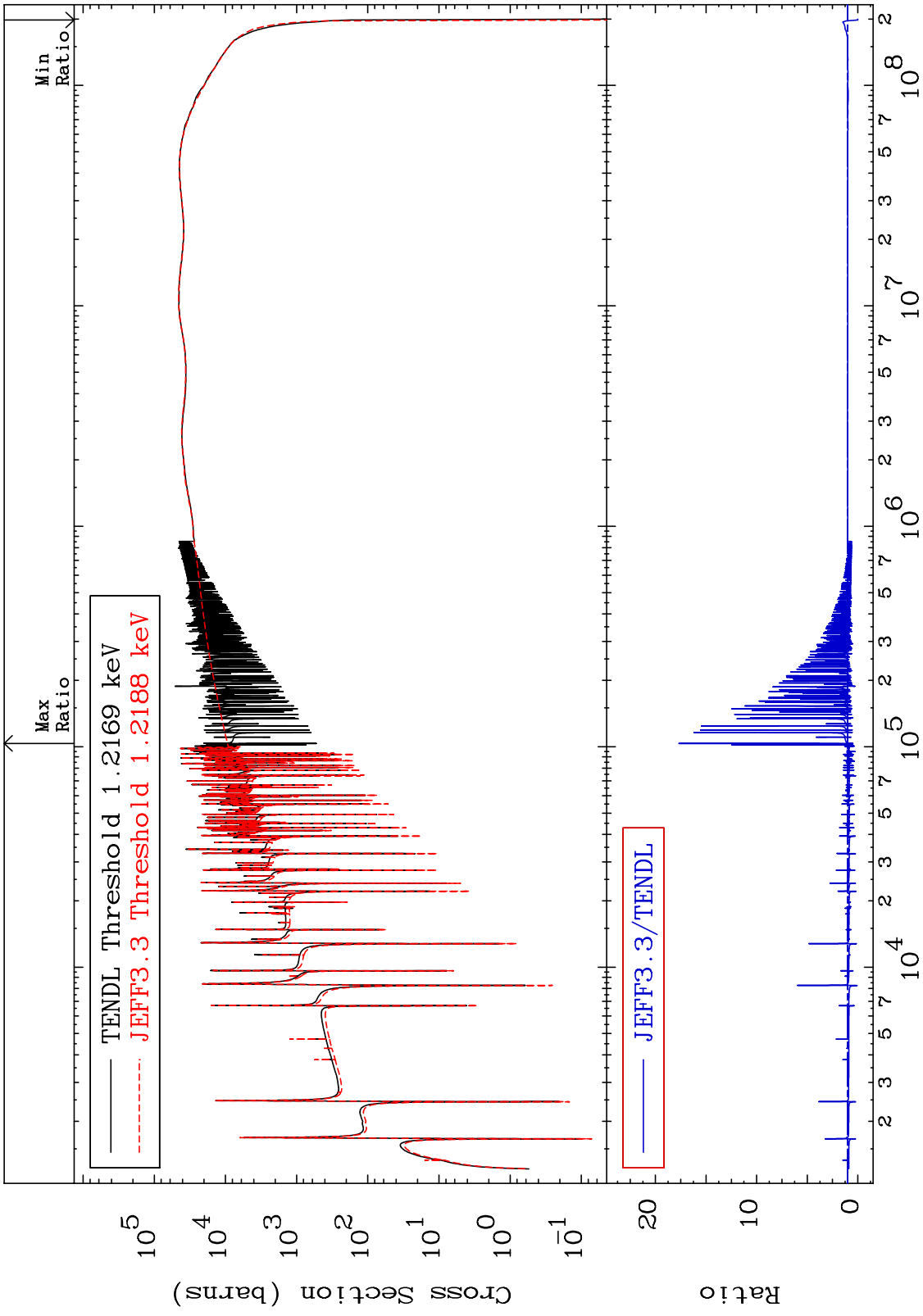
Dpa total (eV-barns)  
Cross Section

82-Pb-204  
-93.48 To 1664. %



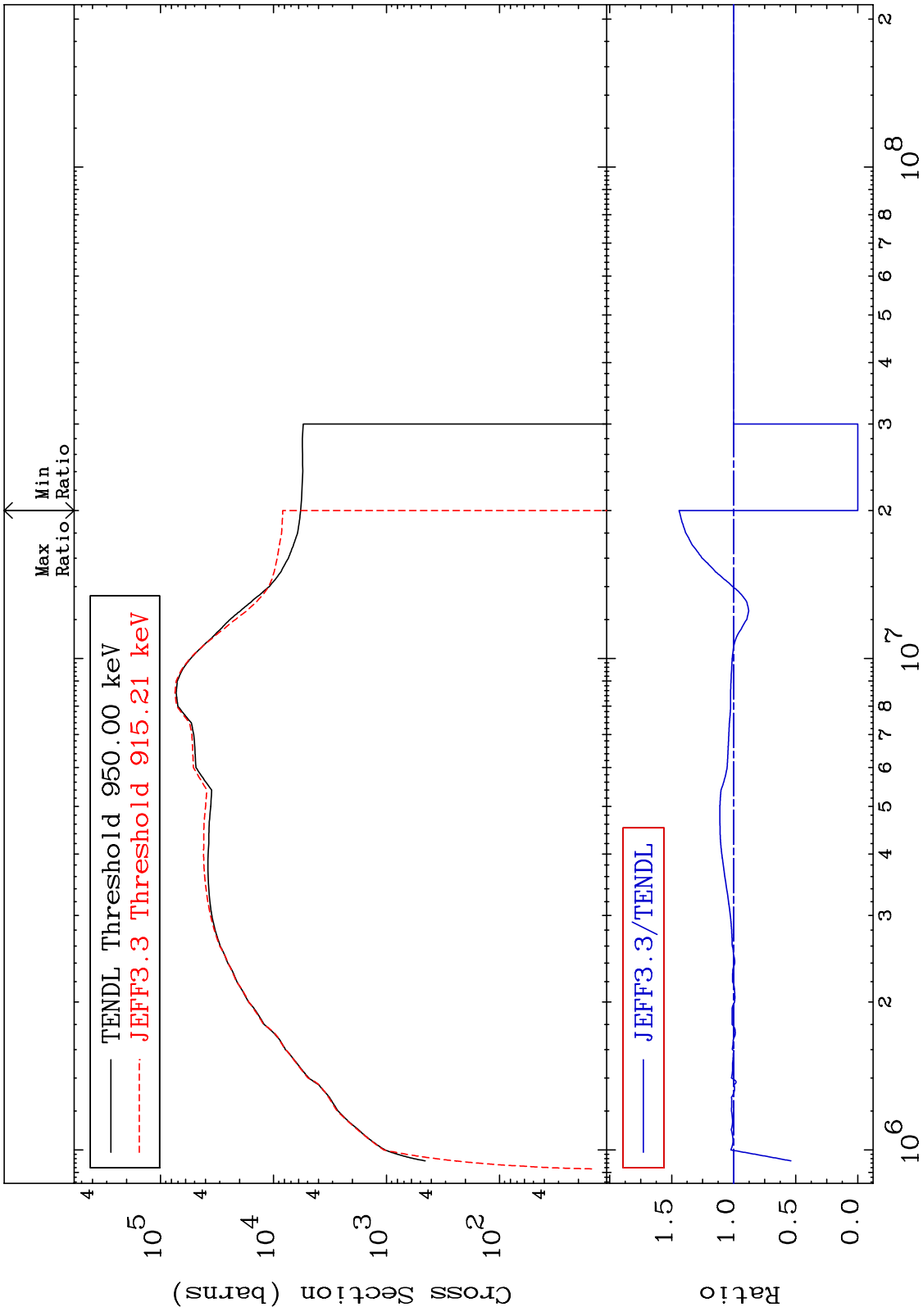


MAT 8225 82-Pb-204 -100.0 To 1667. %  
 Dpa elastic (mt2) Cross Section



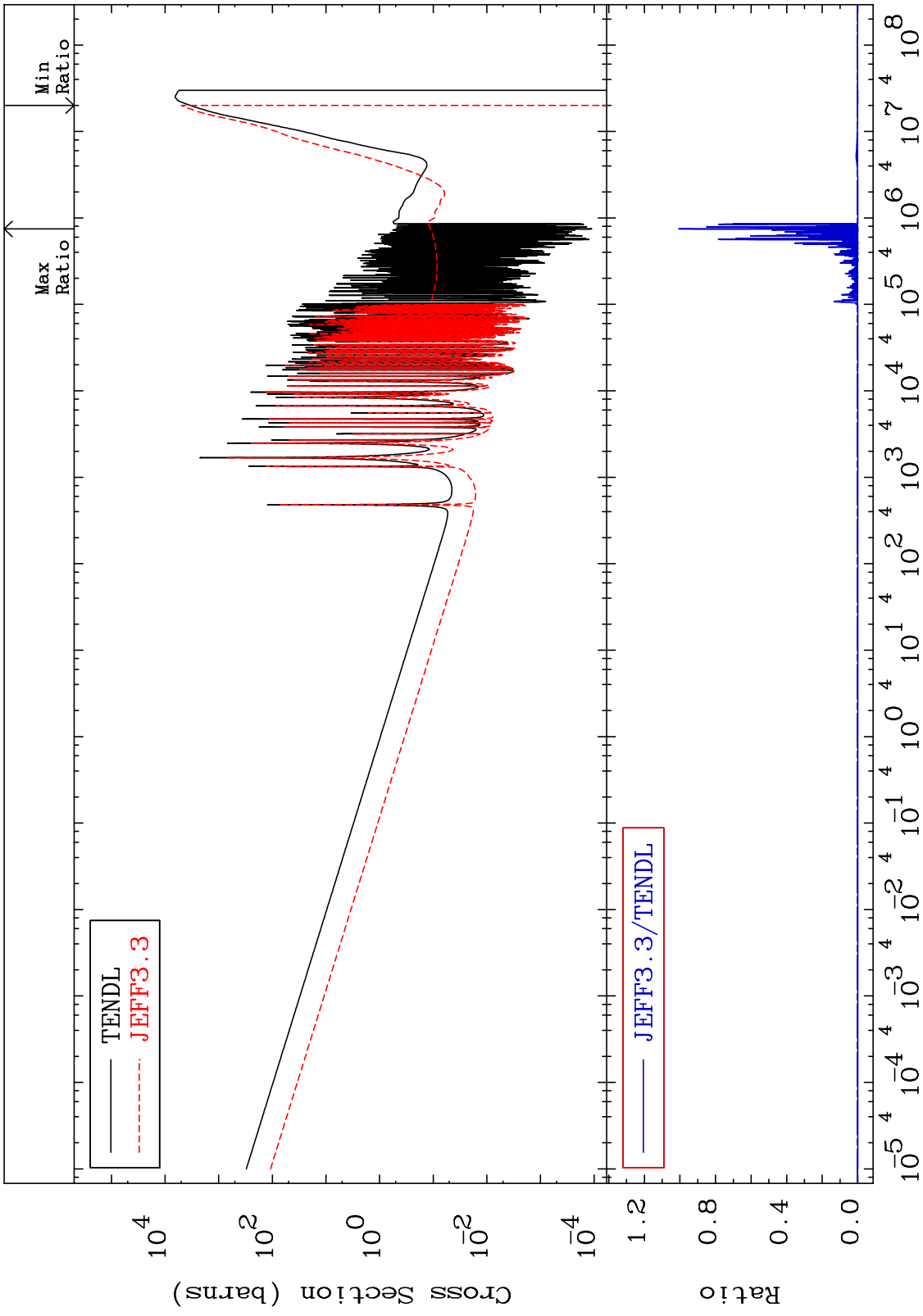
82-Pb-204  
 Incident Energy (eV)

MAT 8225      Dpa inelastic (mt51-91)      82-Pb-204  
 Cross Section      -100.0 To 44.05 %



57      Incident Energy (eV)      82-Pb-204

MAT 8225      Dpa disappearance (mt102 -120)      82-Pb-204  
 Cross Section      -100.0 To 9999. %

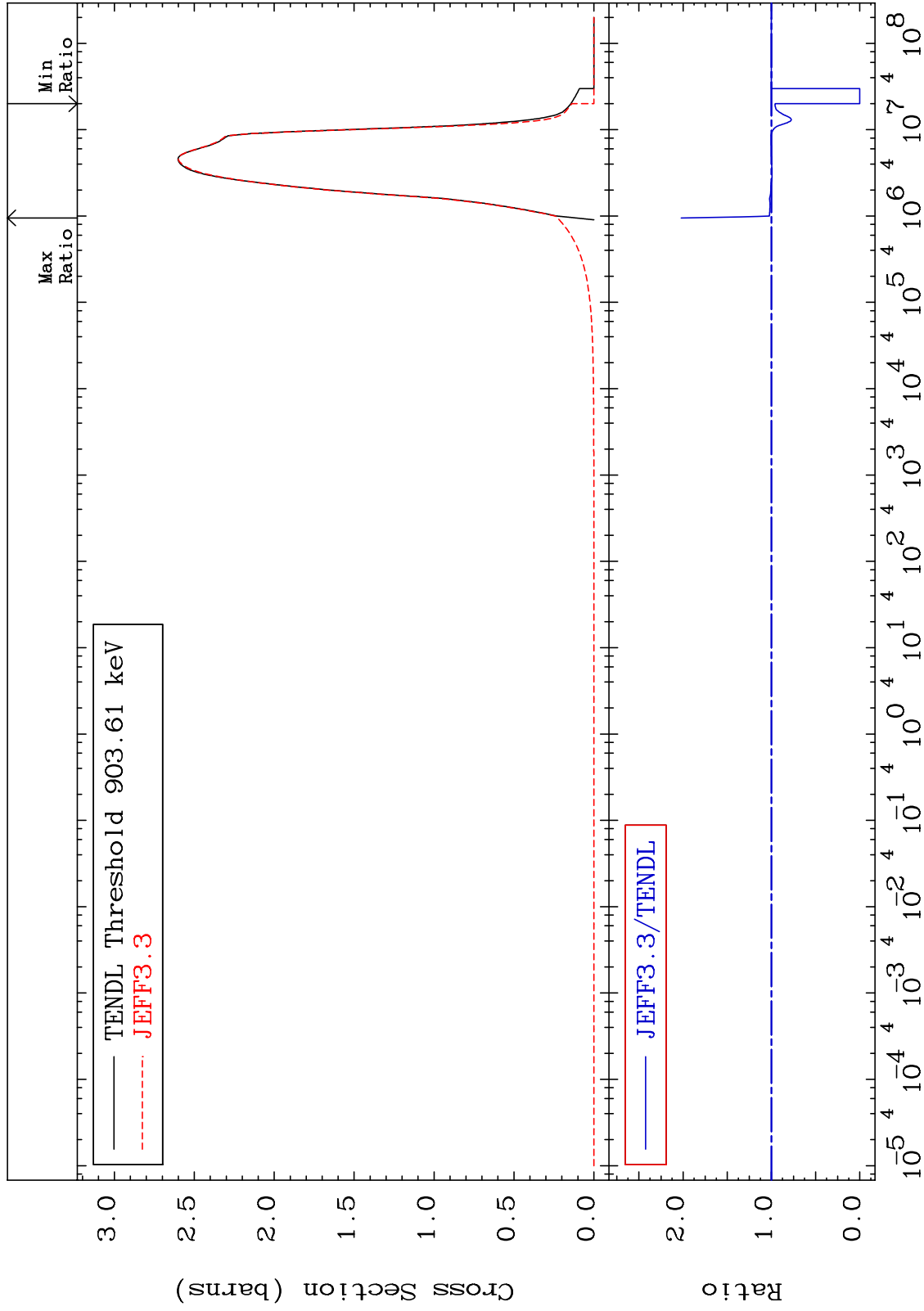


MAT 8225

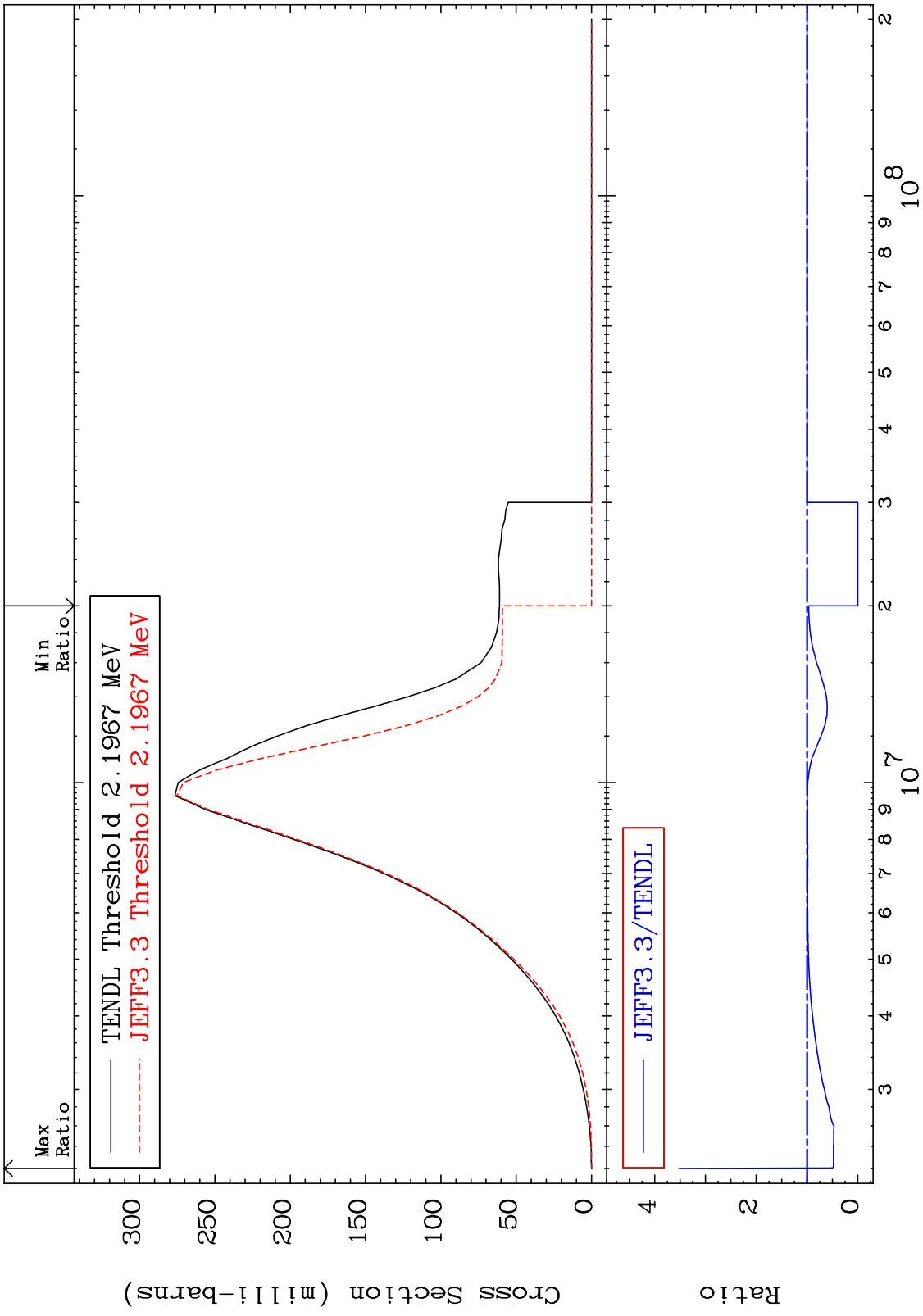
Inelastic:82-Pb-204g

82-Pb-204

Radionuclide Production Cross Section -100.0 To 102.1 %



MAT 8225 Inelastic: 82-Pb-204m21 82-Pb-204  
Radionuclide Production Cross Section -100.0 To 252.0 %

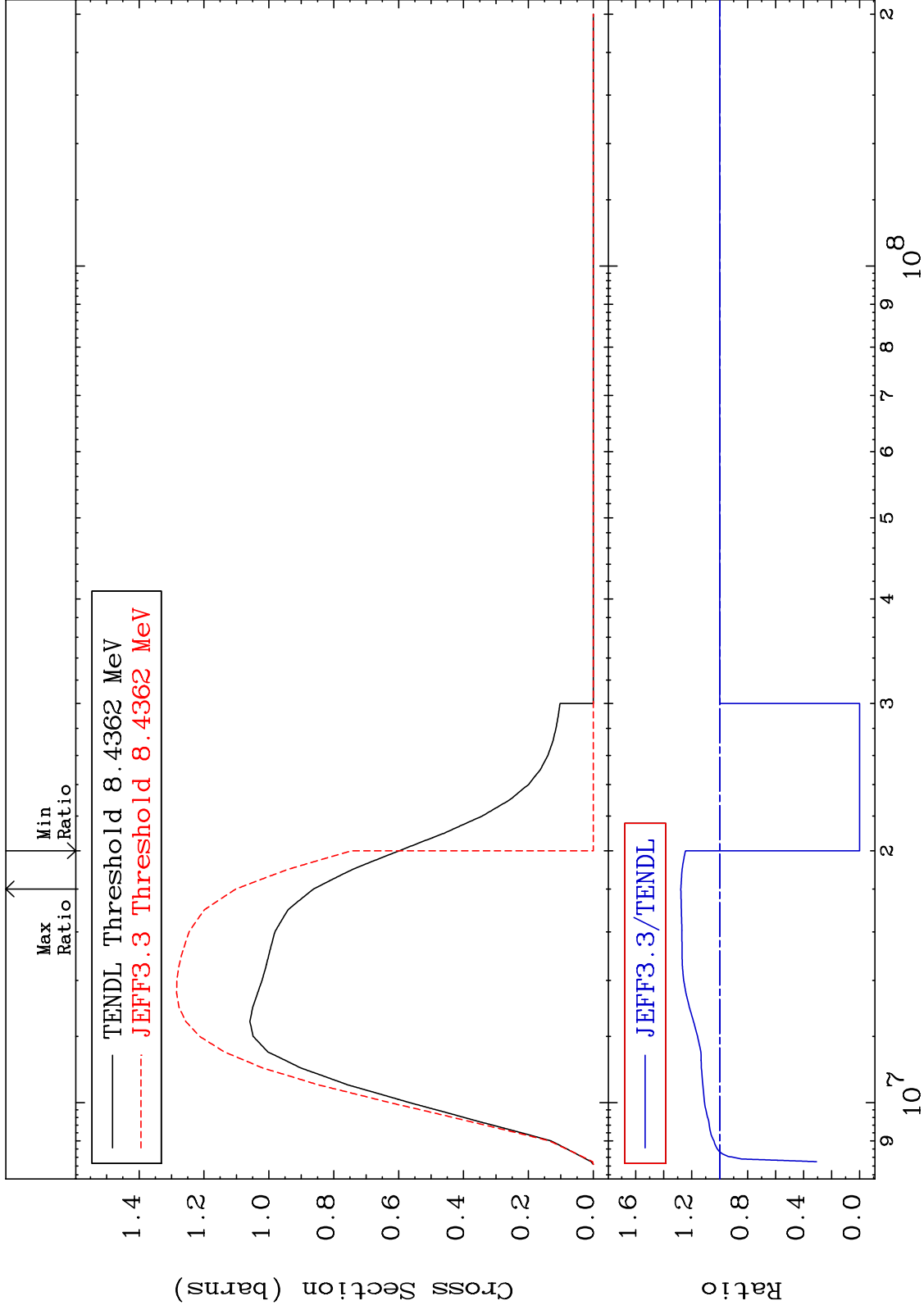


MAT 8225

(n,2n):82-Pb-203g

82-Pb-204

Radionuclide Production Cross Section -100.0 To 27.75 %

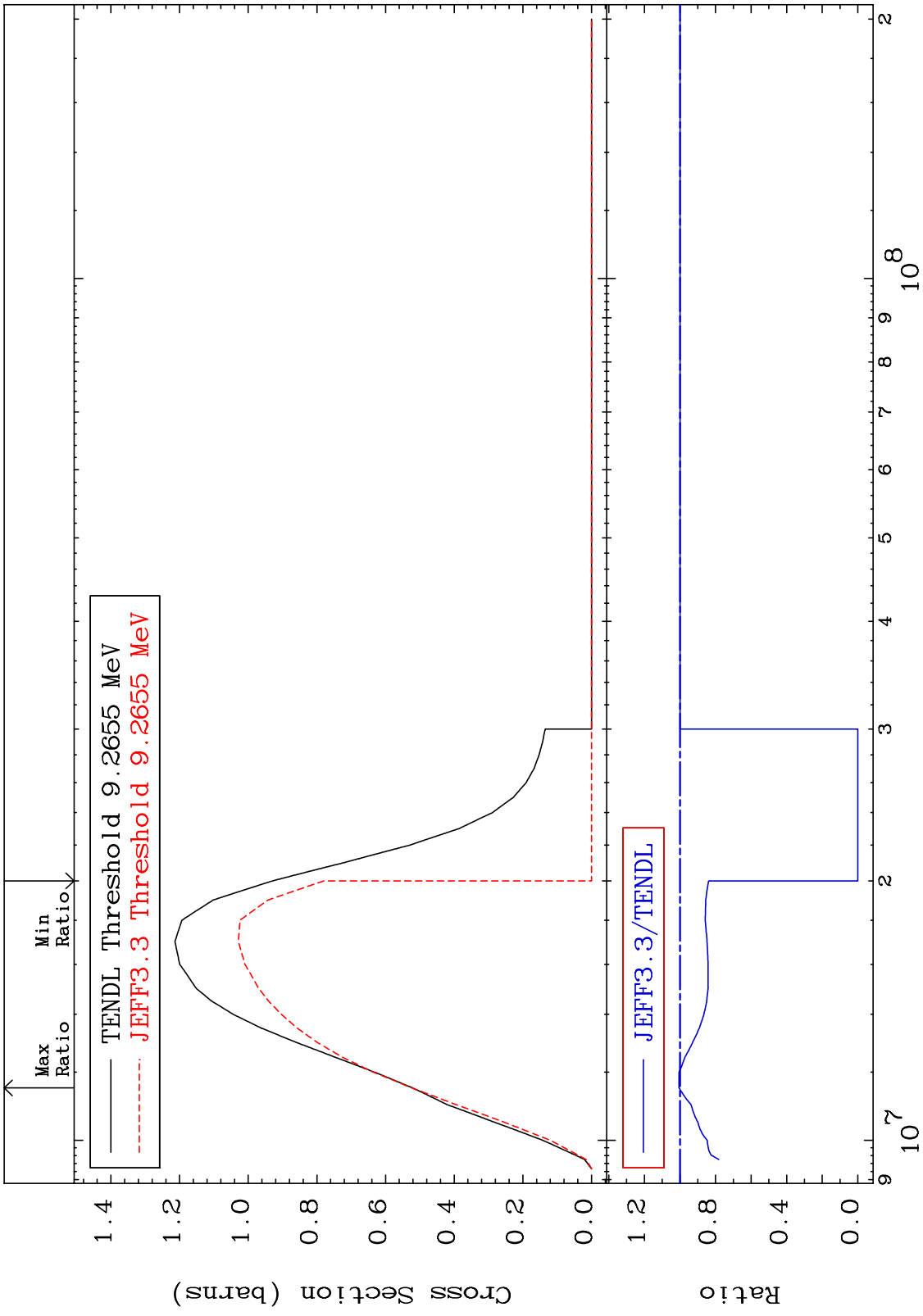


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Incident Energy (eV)

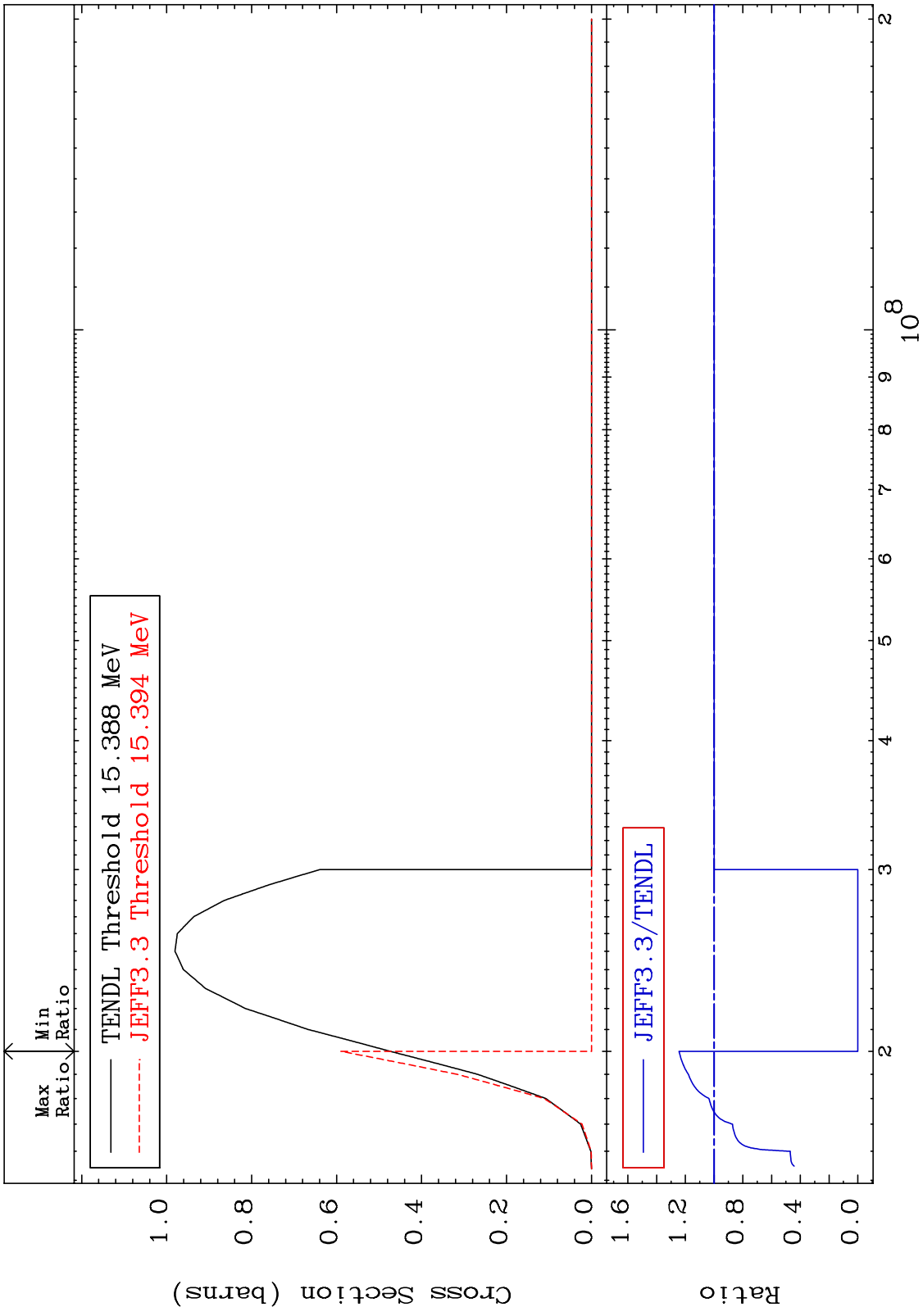
82-Pb-204

MAT 8225 (n,2n): 82-Pb-203m6 82-Pb-204  
 Radionuclide Production Cross Section -100.0 To 0.515 %



62 Incident Energy (eV) 82-Pb-204

MAT 8225 (n,3n):82-Pb-202g 82-Pb-204  
 Radionuclide Production Cross Section -100.0 To 24.40 %



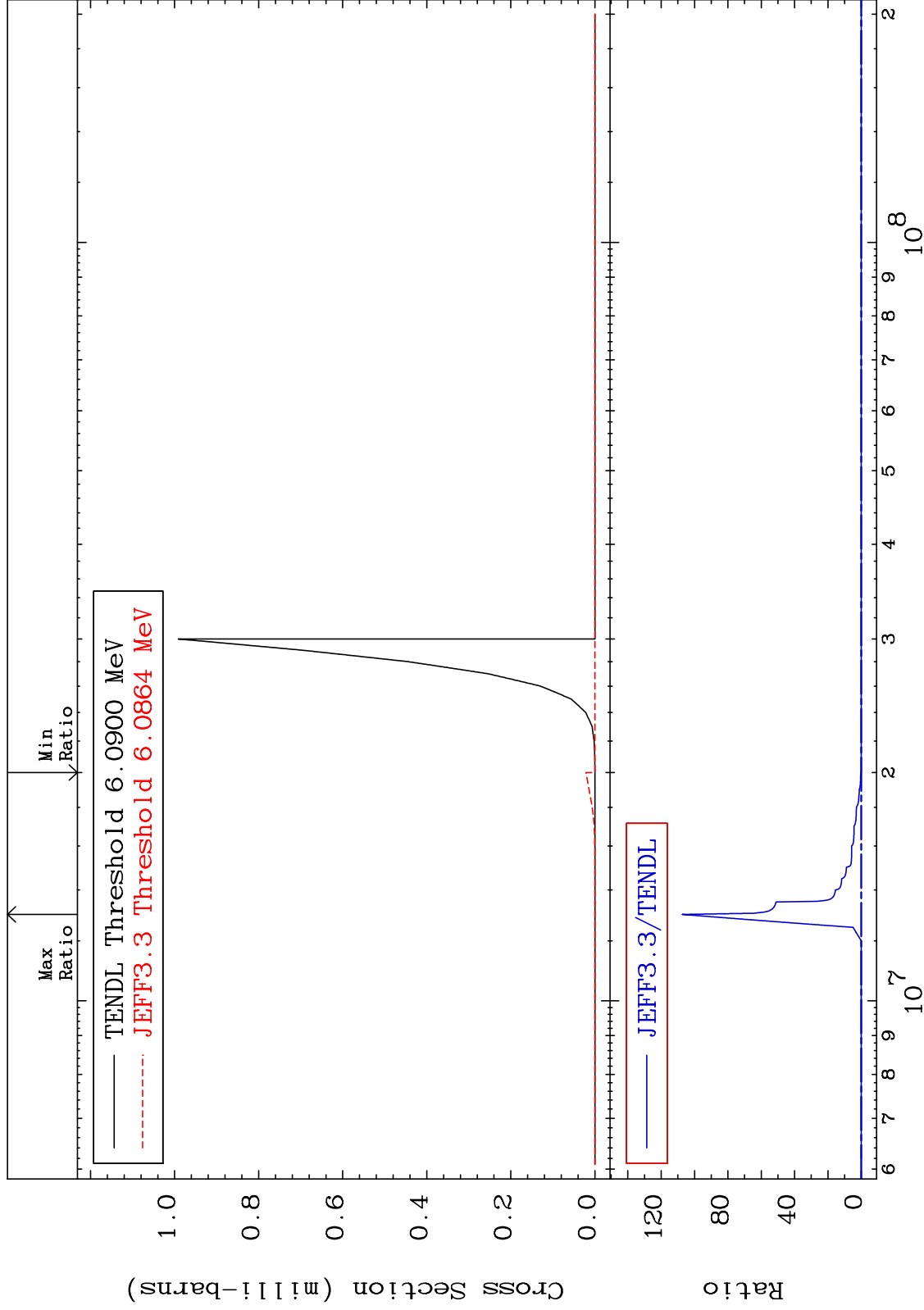


MAT 8225

(n,2n)  $\alpha$ :80-Hg-199g

82-Pb-204

Radionuclide Production Cross Section -100.0 To 9999. %



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Incident Energy (eV)

82-Pb-204

MAT 8225 (n,2n)  $\alpha$ : 80-Hg-199m7 82-Pb-204  
 Radionuclide Production Cross Section -100.0 To 9999. %

