

Program Complot  
(Version 2018-1)

by

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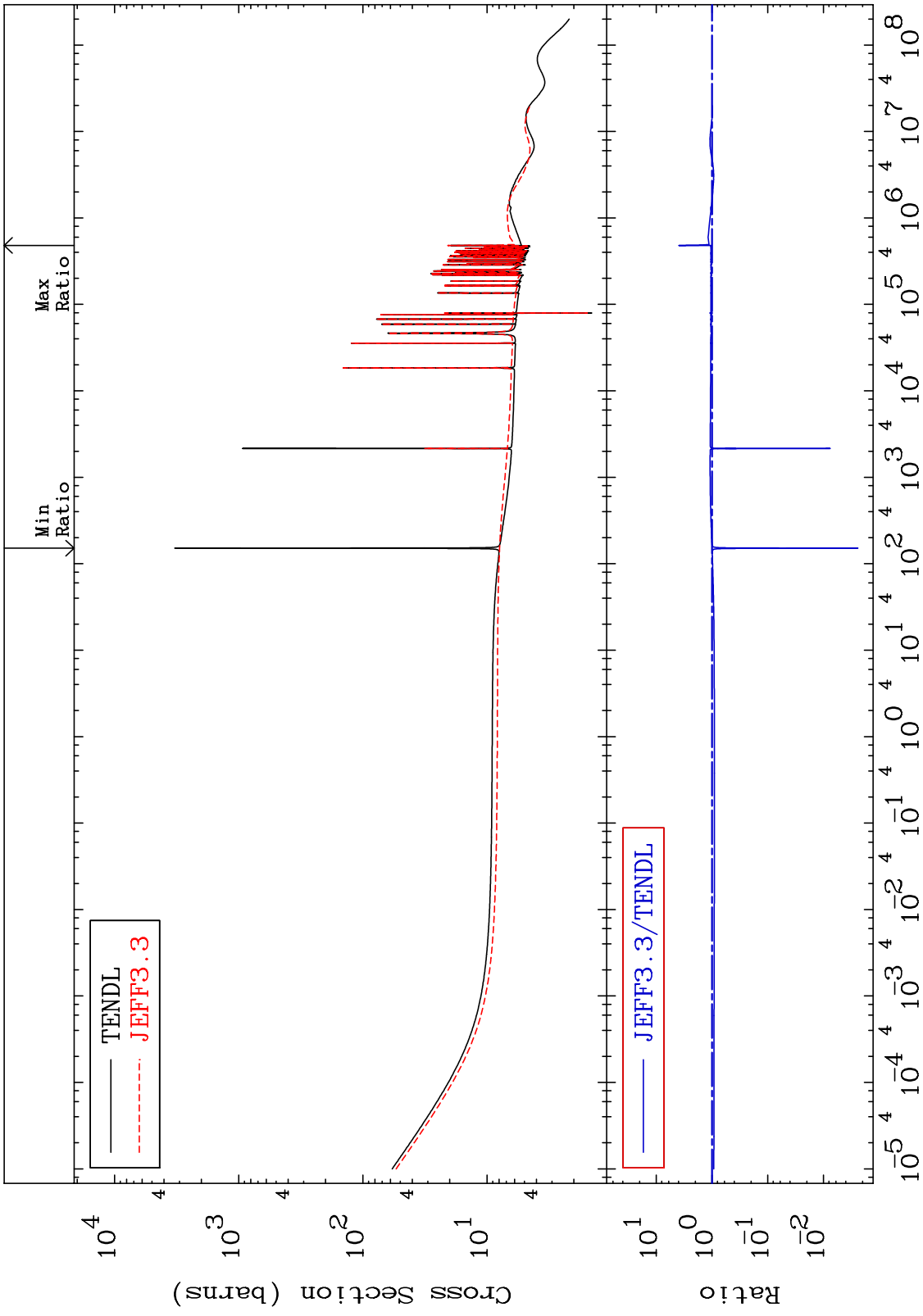
U.S.A.

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Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

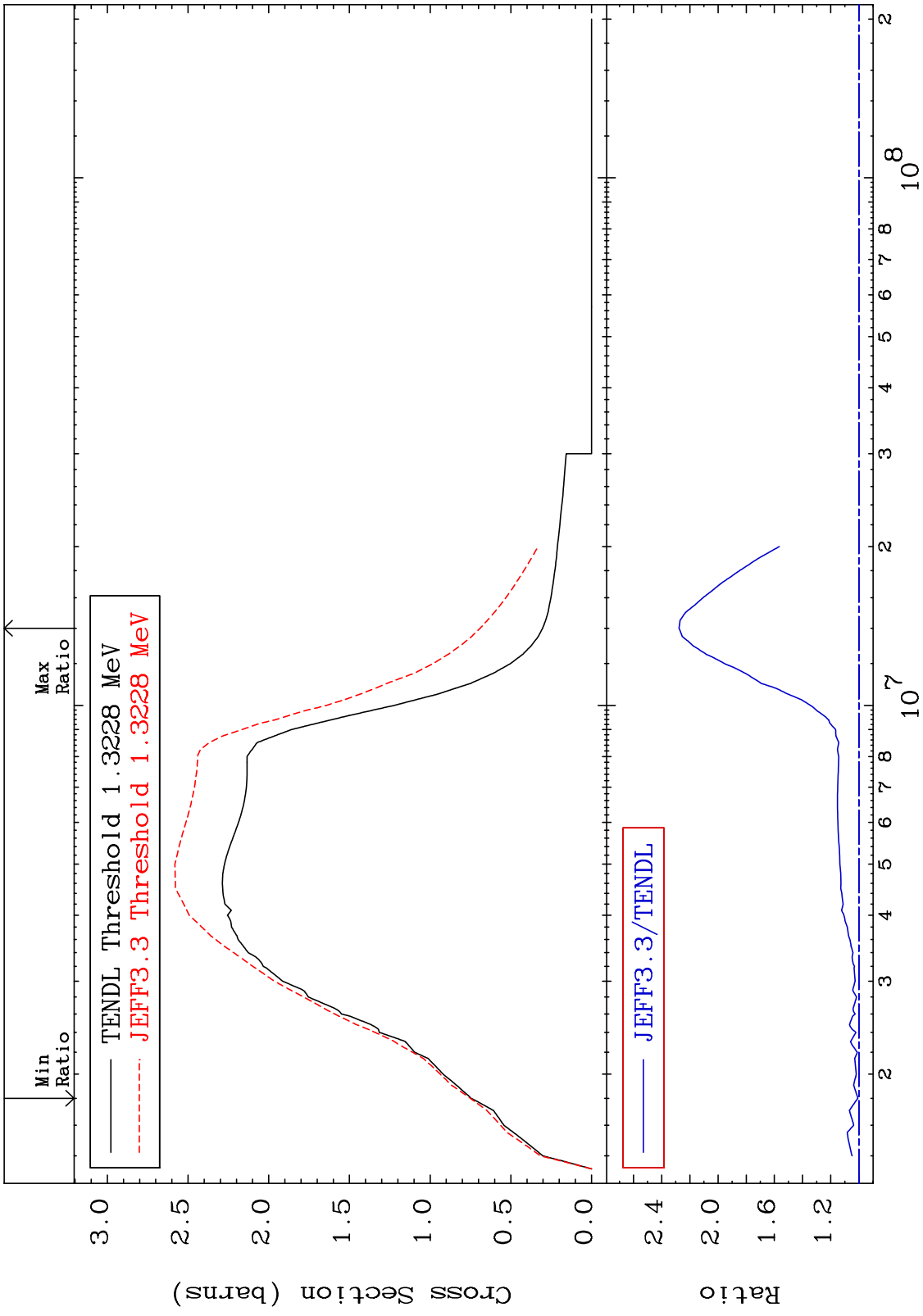
MAT 5461 54-Xe-136 Total Cross Section -99.76 To 291.2 %



Incident Energy (eV) 54-Xe-136



MAT 5461 54-Xe-136  
0.736 To 127.7 %  
Inelastic Cross Section



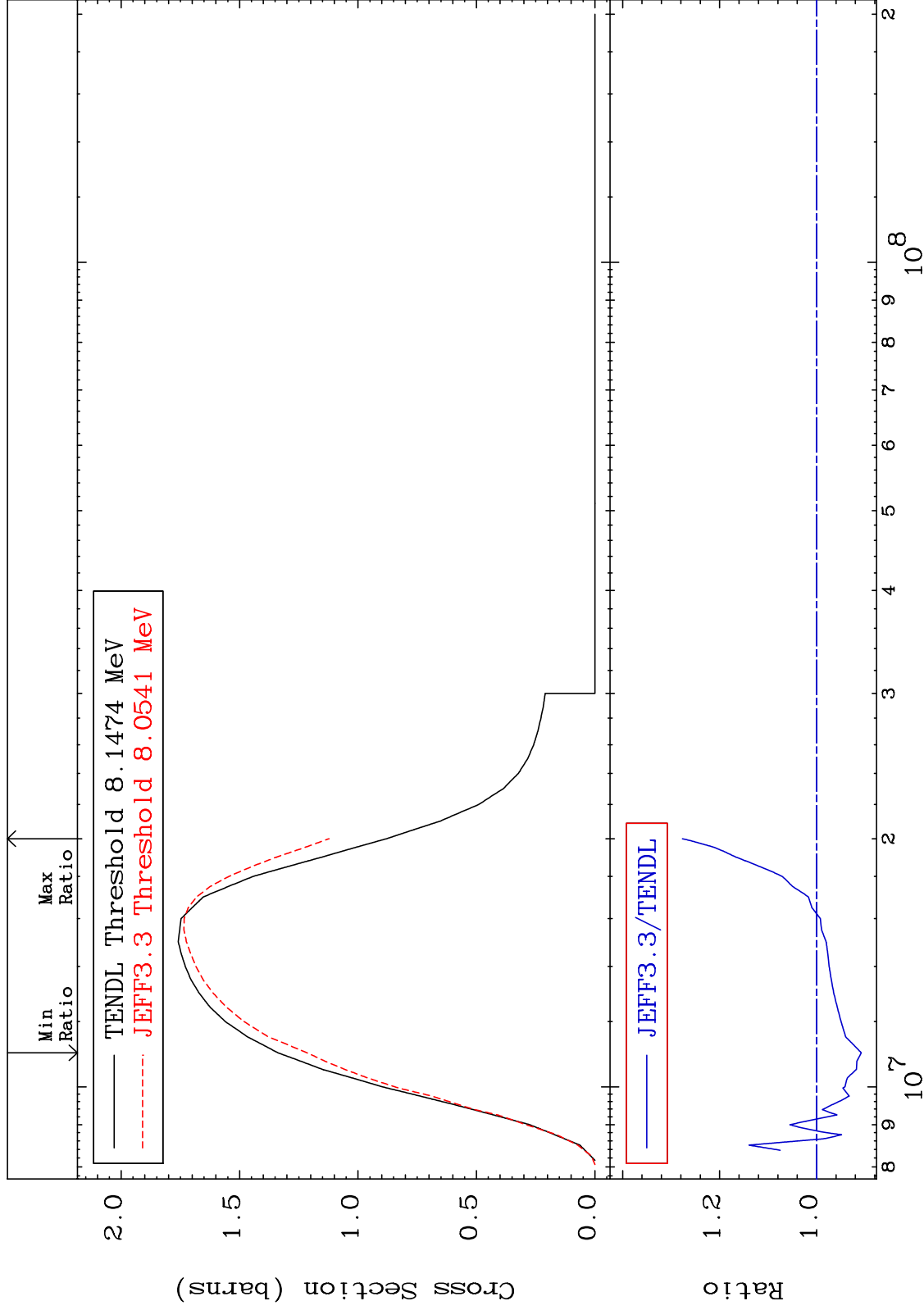
MAT 5461

(n,2n)

54-Xe-136

Cross Section

-9.205 To 27.67 %

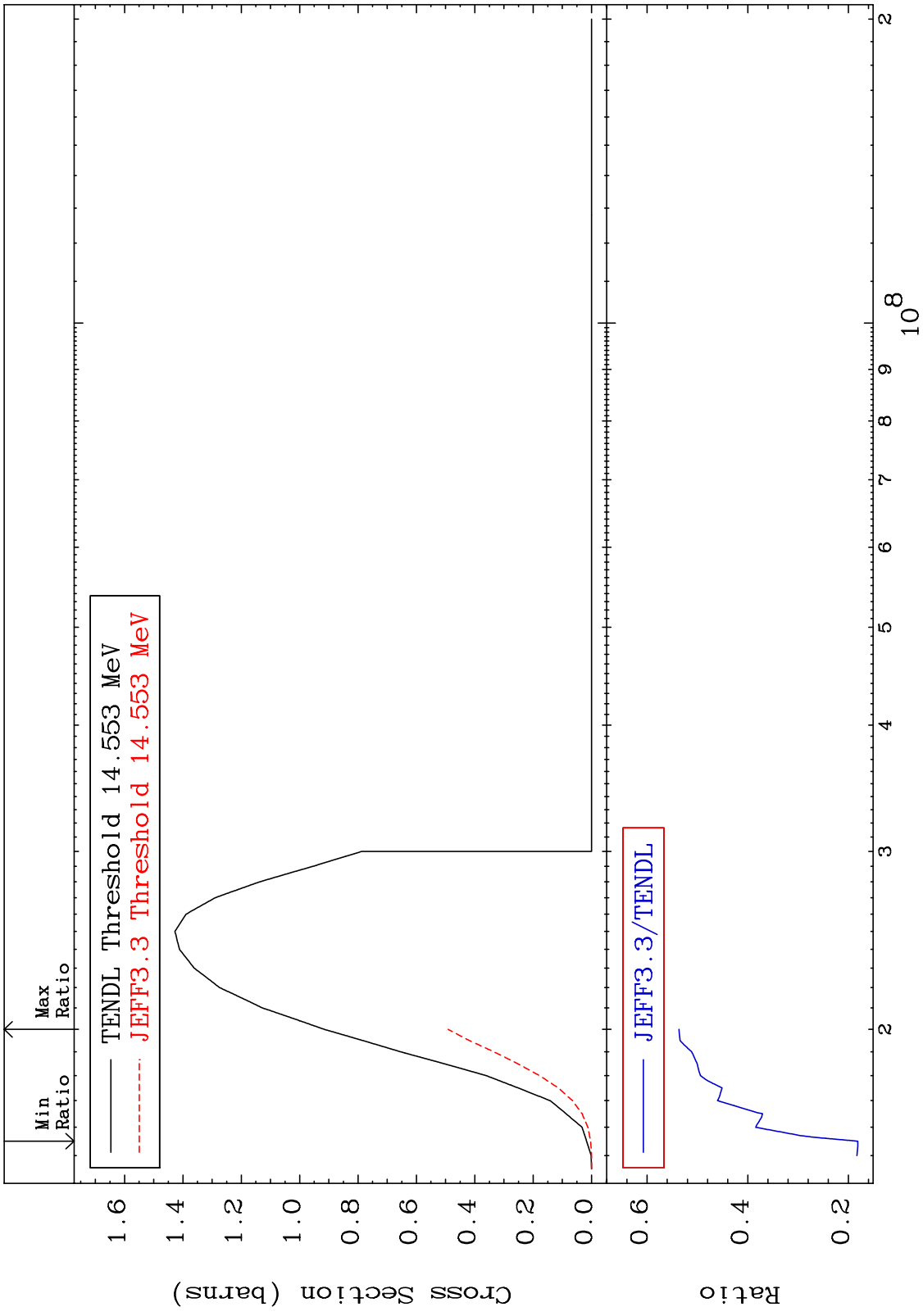


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Incident Energy (eV)

54-Xe-136

MAT 5461 (n,3n) 54-Xe-136  
 Cross Section -81.87 To -46.34%



MAT 5461

(n, n')  $\alpha$

54-Xe-136

211.7 To 477.2 %

Cross Section

Max Ratio

Min Ratio

— TENDL Threshold 3.6931 MeV

- - - JEFF3.3 Threshold 13.000 MeV

Cross Section (milli-barns)

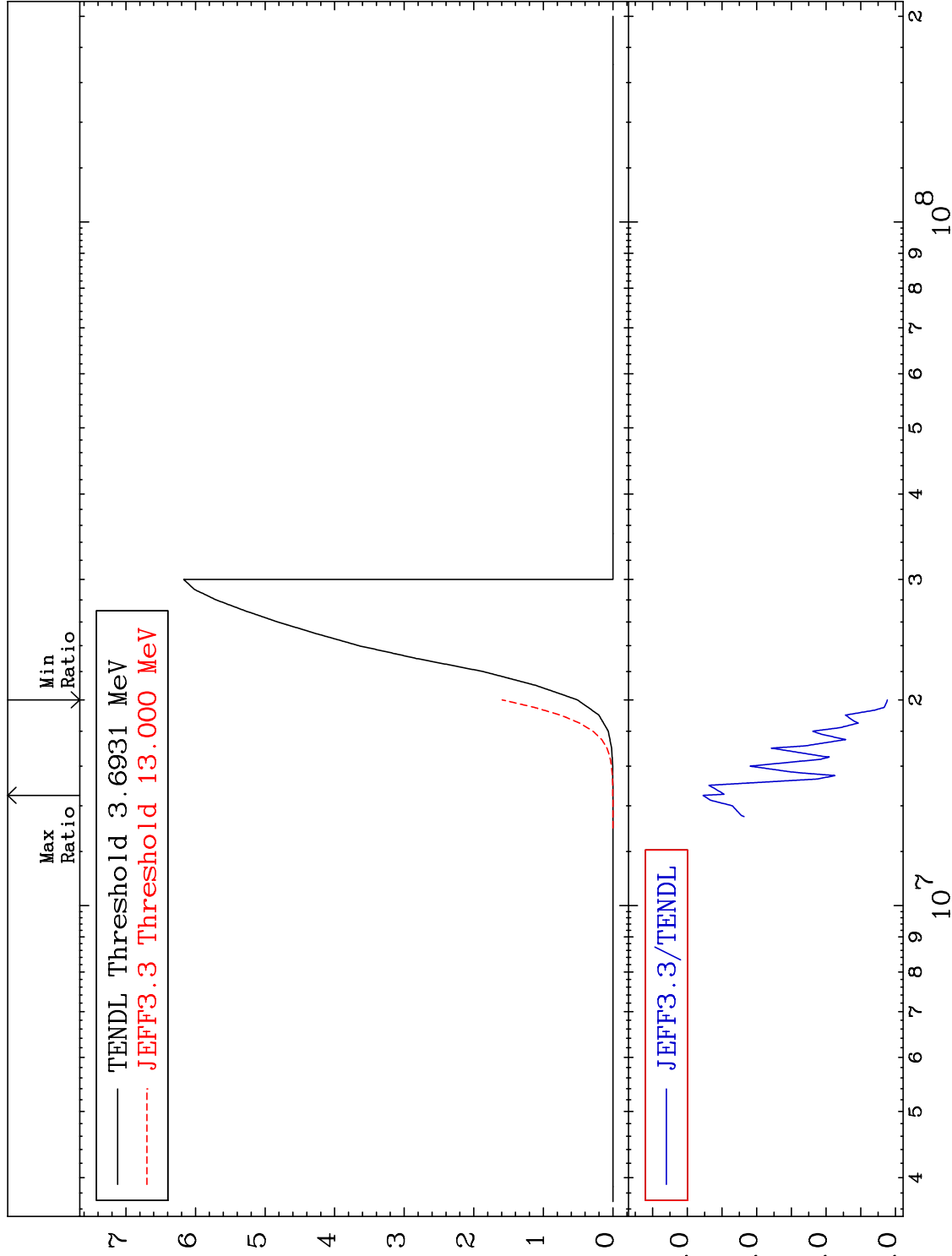
— JEFF3.3/TENDL

Ratio

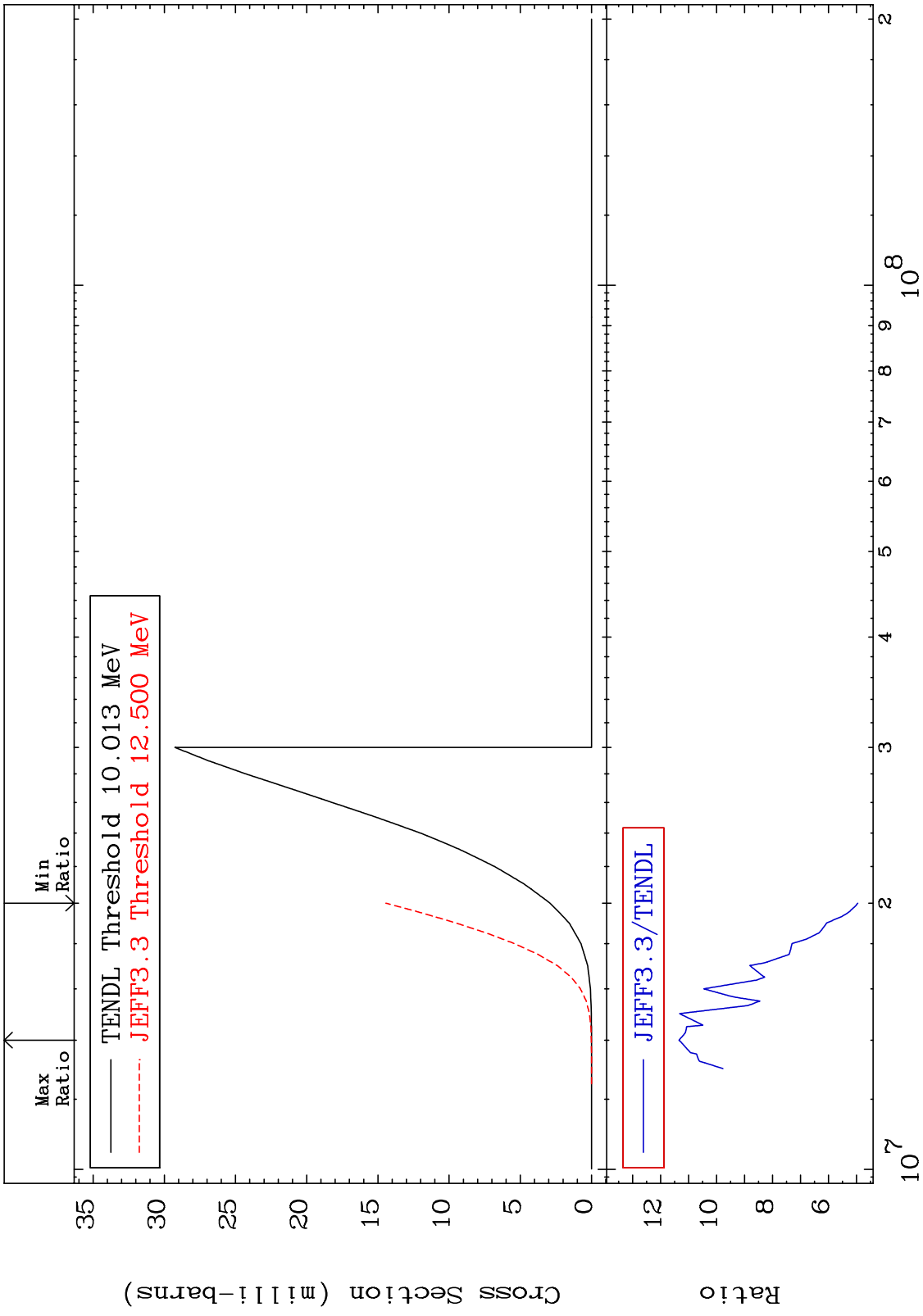
6

Incident Energy (eV)

54-Xe-136



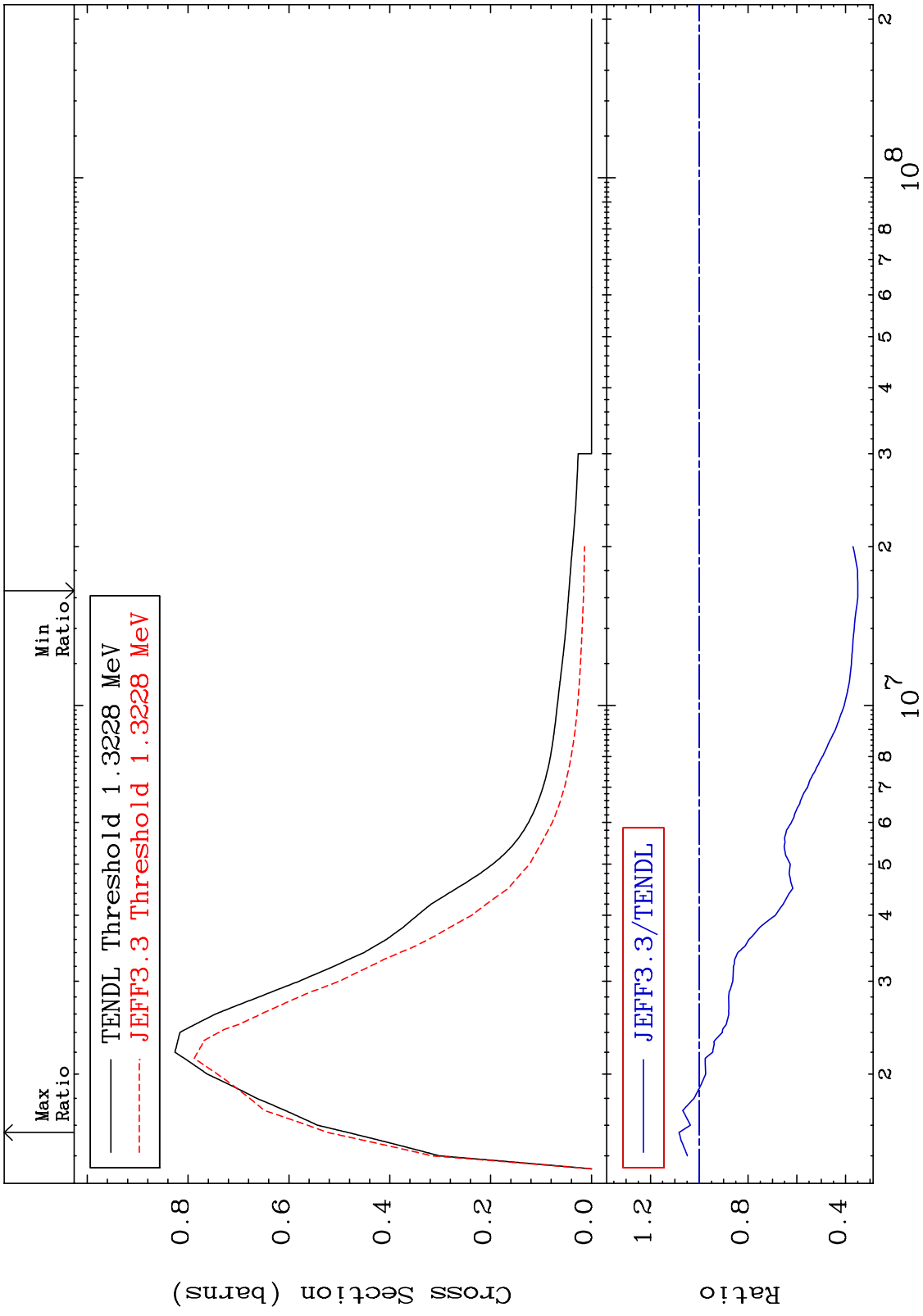
MAT 5461 (n,n') p 54-Xe-136  
 Cross Section 395.5 To 1034. %



Incident Energy (eV) 54-Xe-136



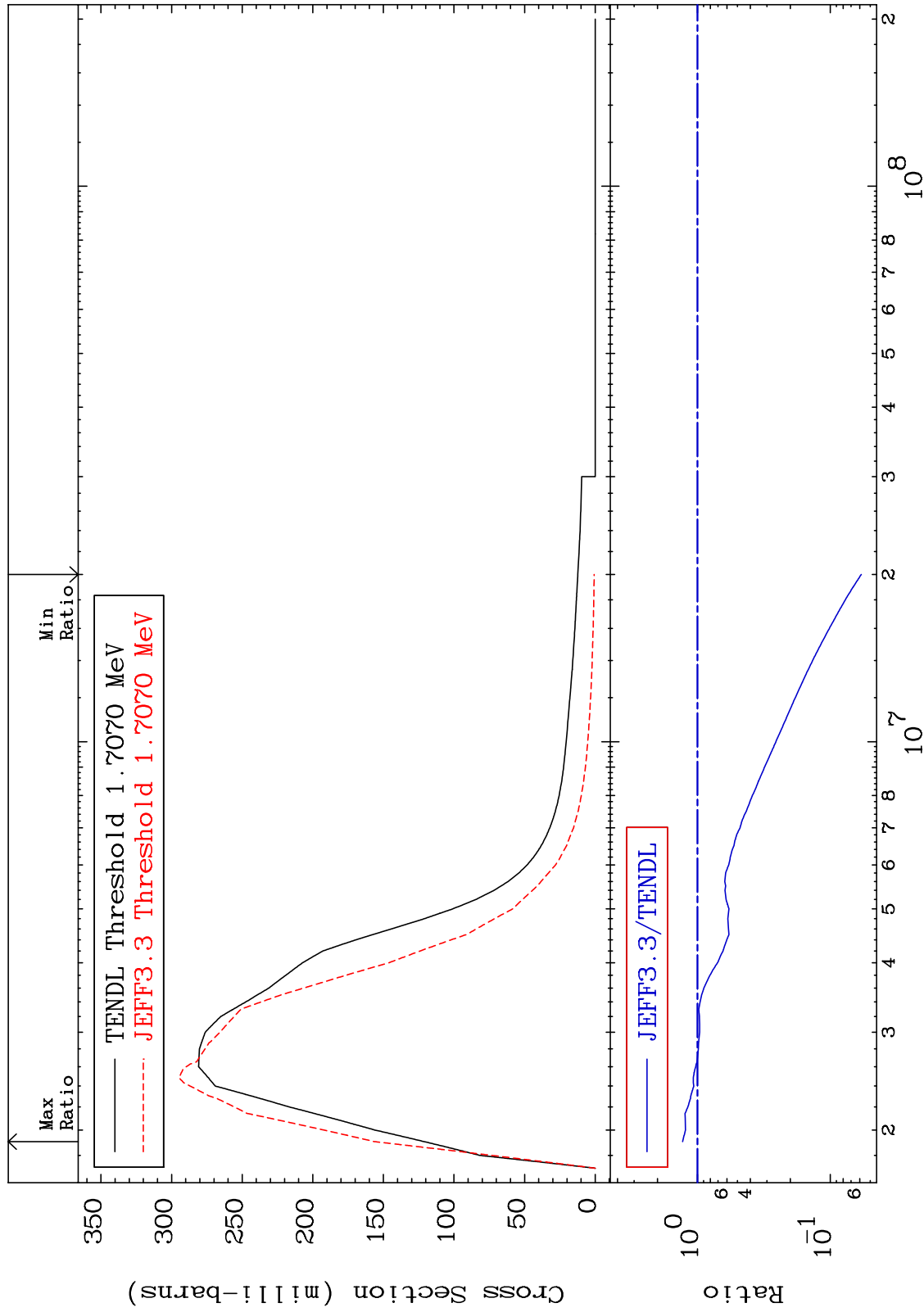
MAT 5461 MT= 51 (n,n') Level Cross Section 54-Xe-136 -65.01 To 8.289 %



MAT 5461

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

54-Xe-136  
-94.16 To 29.12 %



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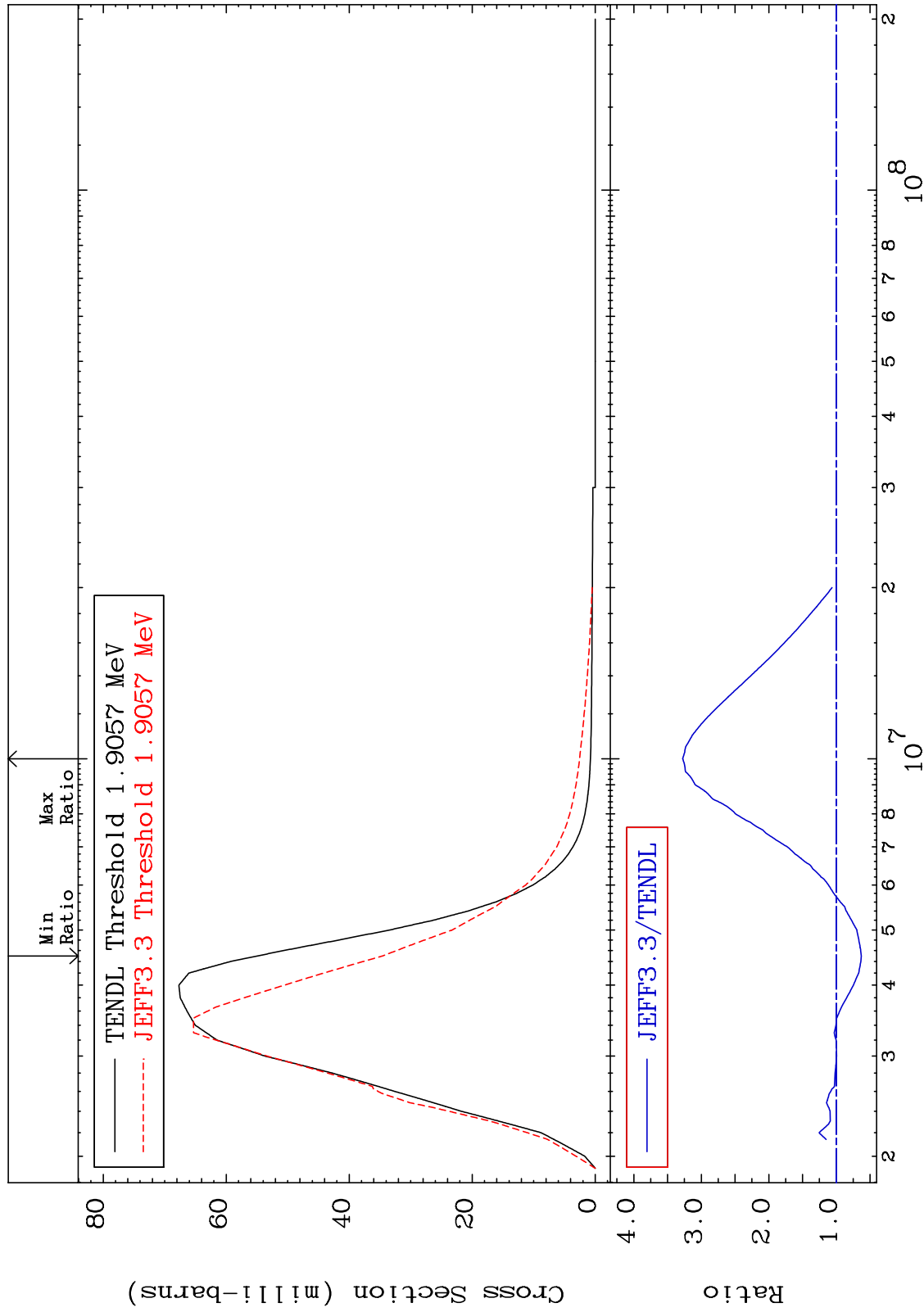
Incident Energy (eV)

54-Xe-136

MAT 5461

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

54-Xe-136  
-37.12 To 227.6 %

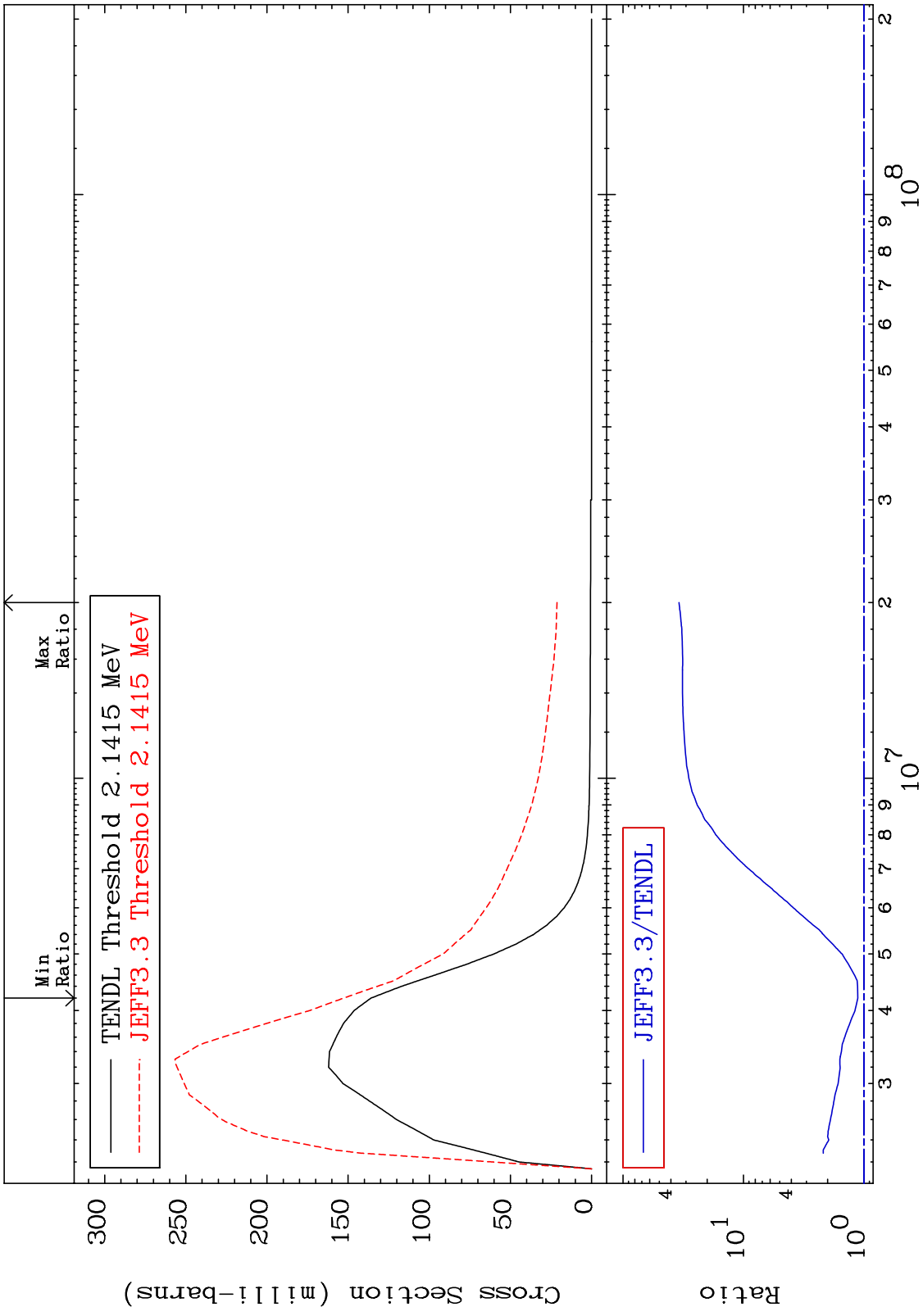


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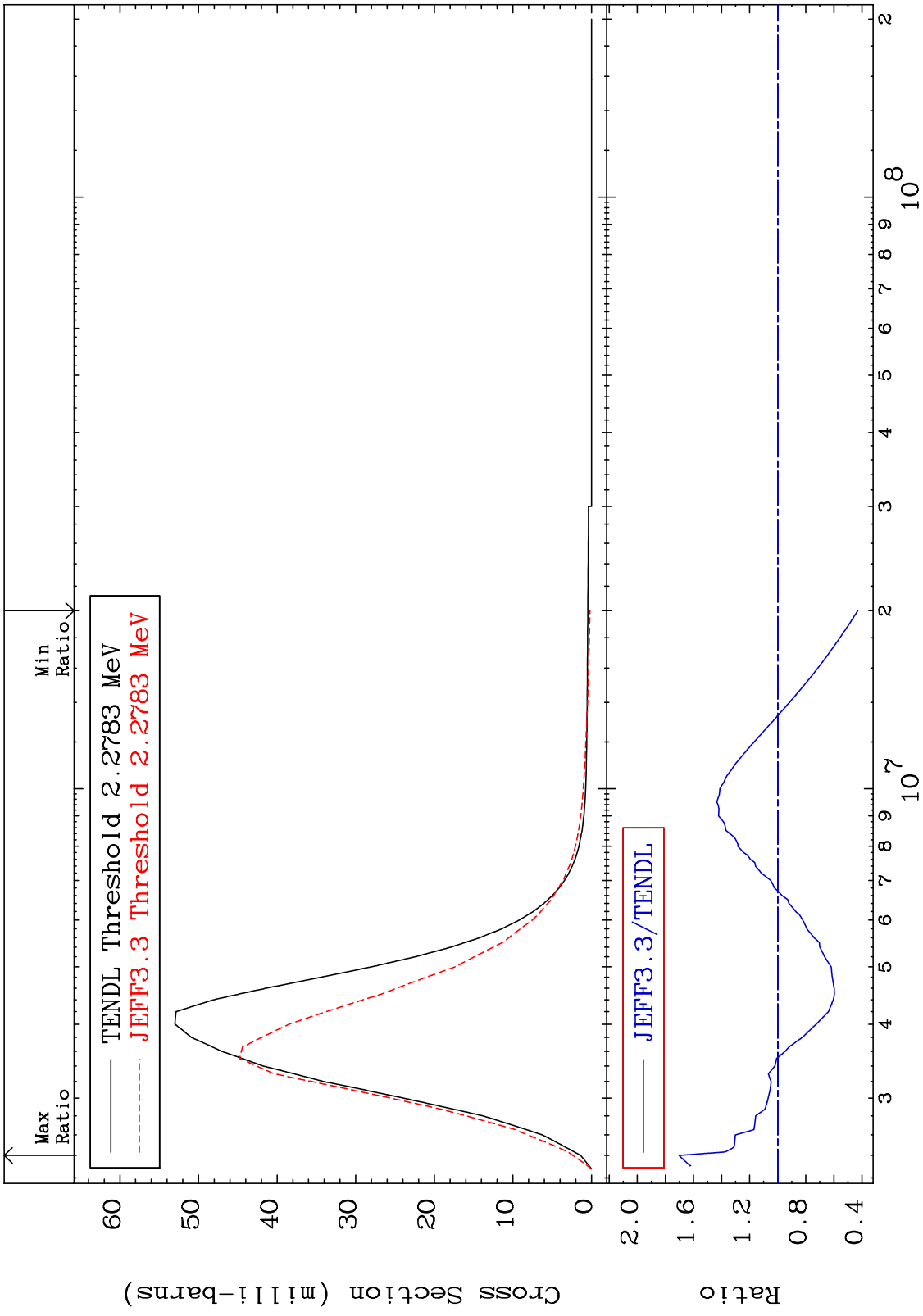
Incident Energy (eV)

54-Xe-136

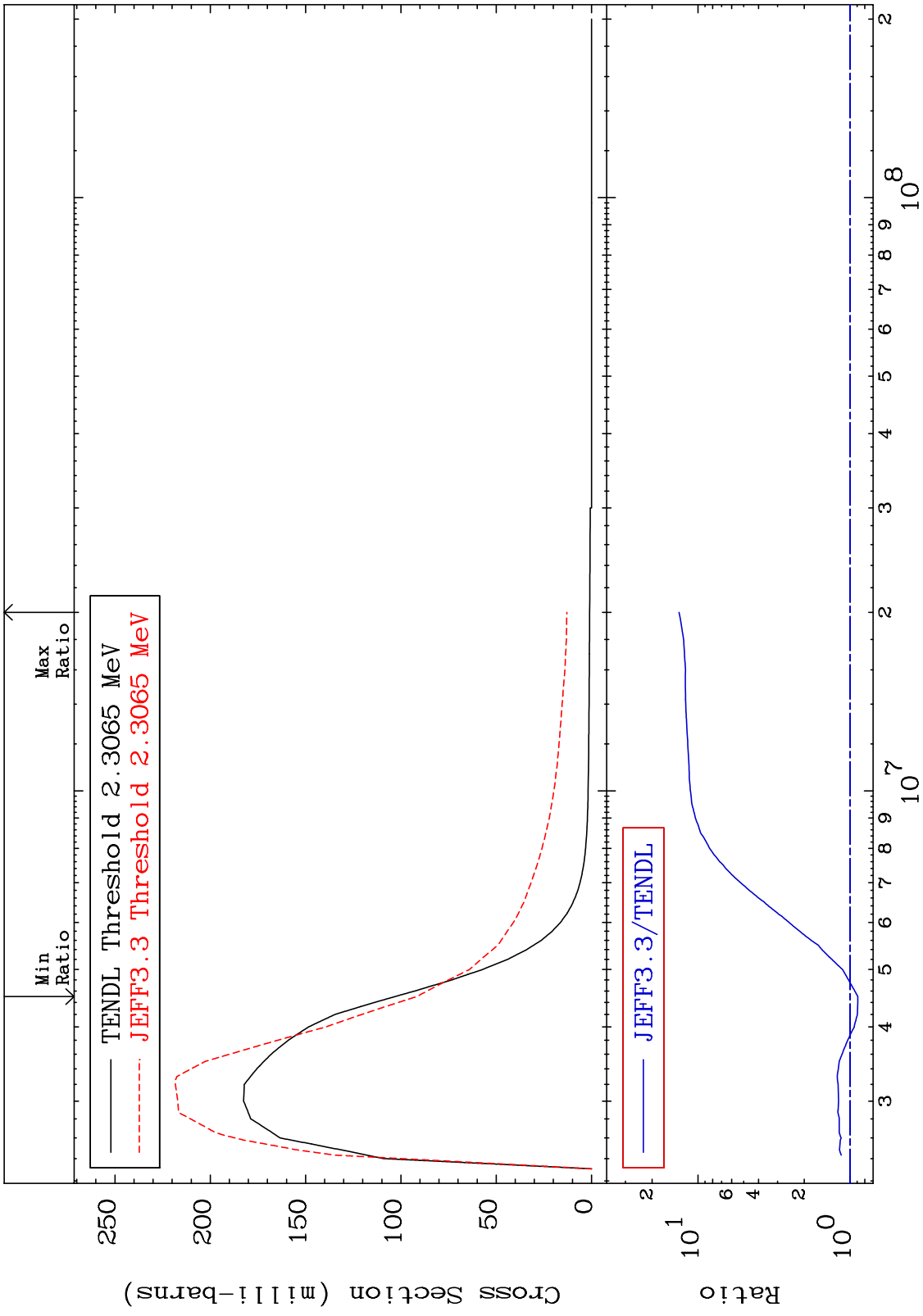
MAT 5461 MT= 54 (n,n') Level Cross Section 54-Xe-136 12.41 To 3329. %



MAT 5461 MT= 55 (n,n') Level Cross Section 54-Xe-136 -57.08 To 70.28 %



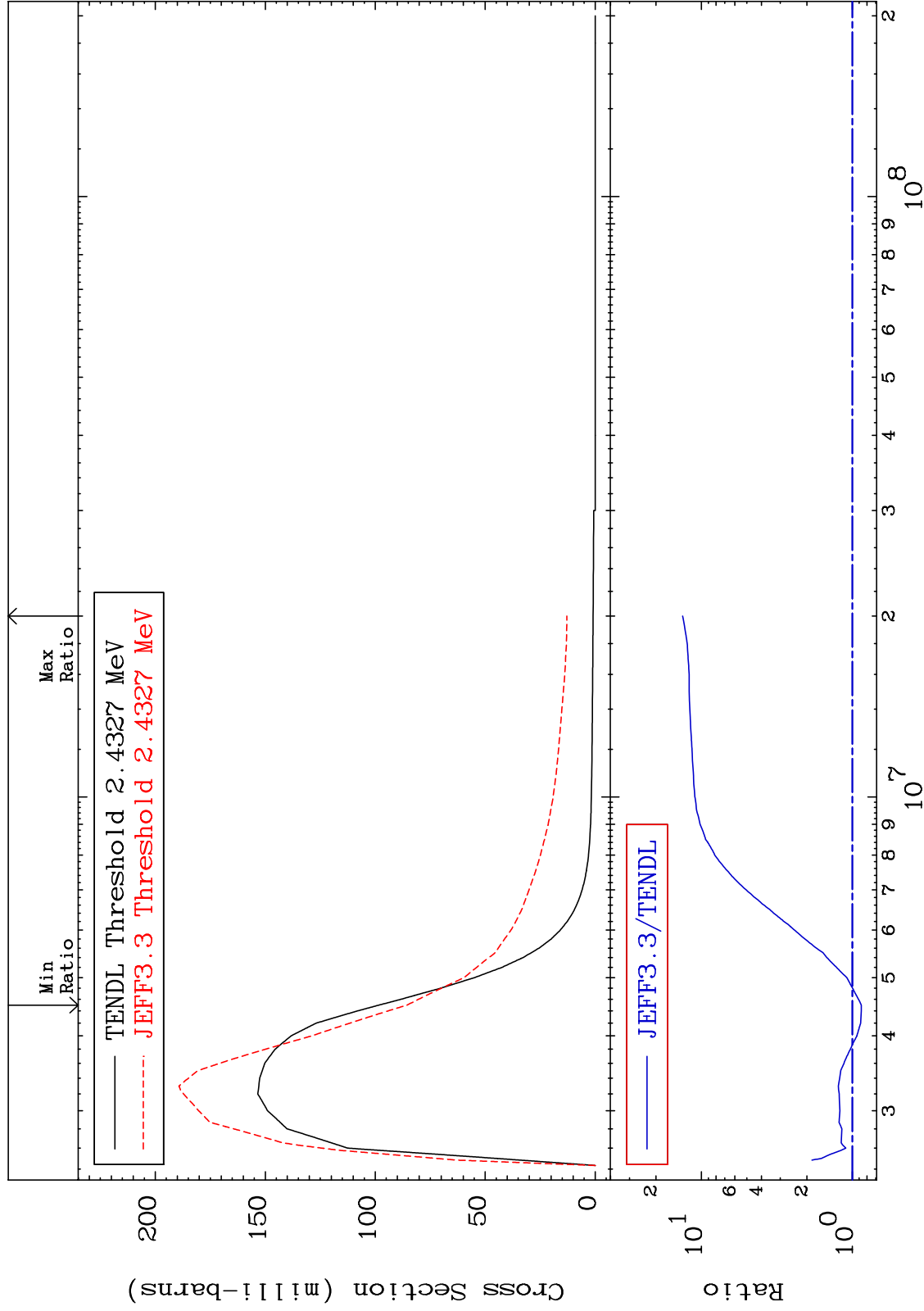
MAT 5461 MT= 56 (n,n') Level Cross Section 54-Xe-136 -11.08 To 1231. %



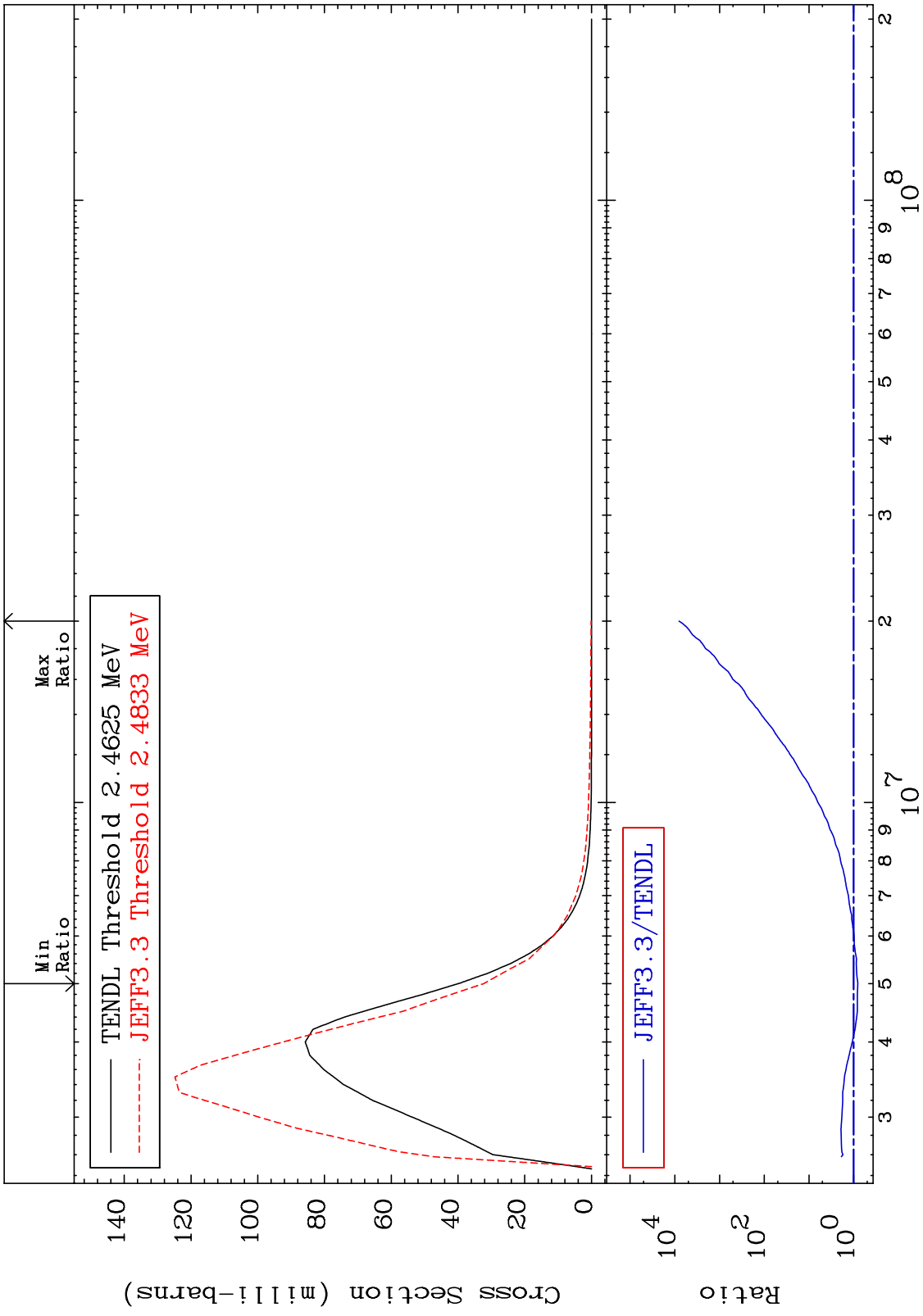
MAT 5461

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

54-Xe-136  
-12.91 To 1231. %

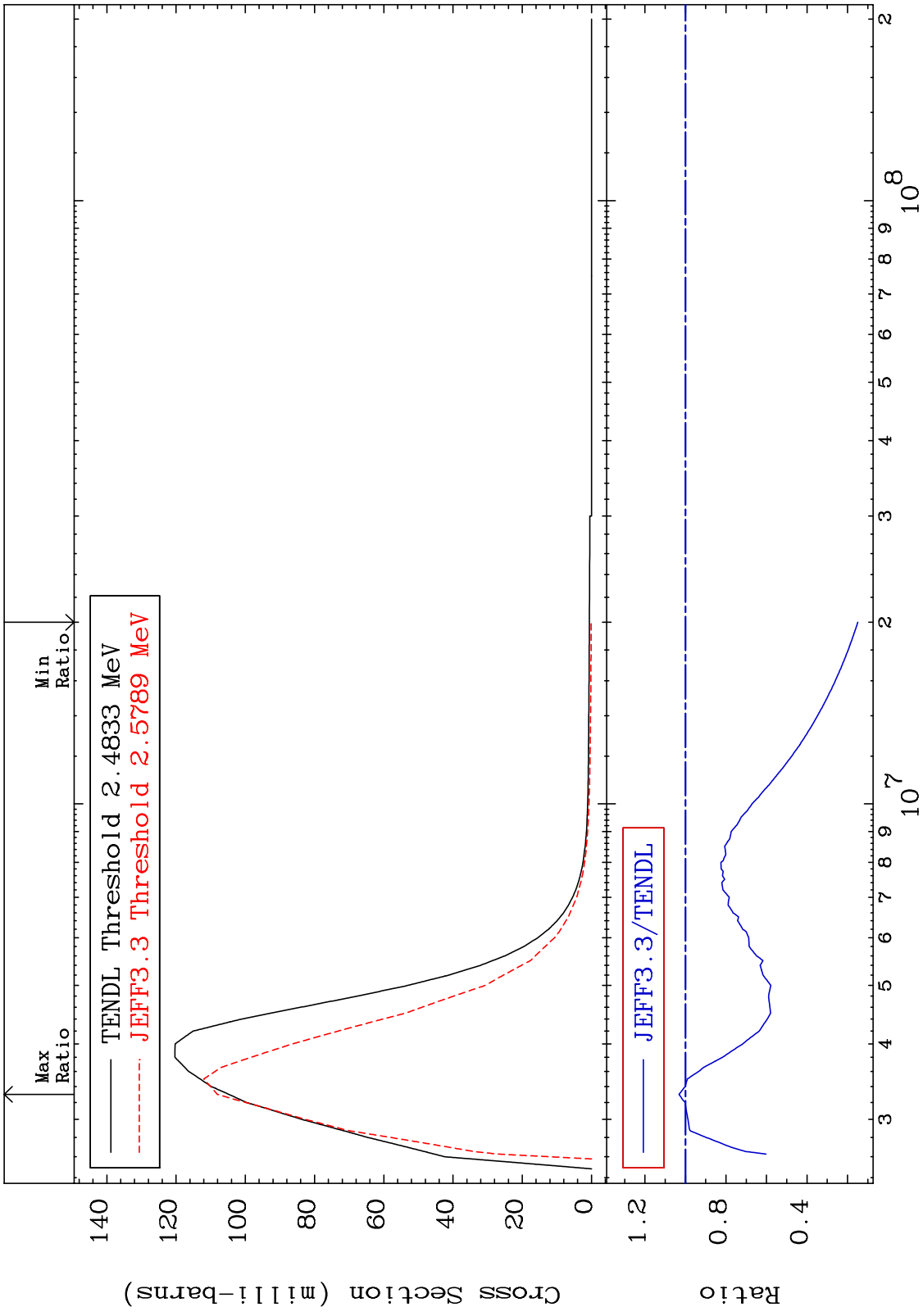


MAT 5461 MT= 58 (n,n') Level Cross Section 54-Xe-136  
 -19.04 To 9999. %



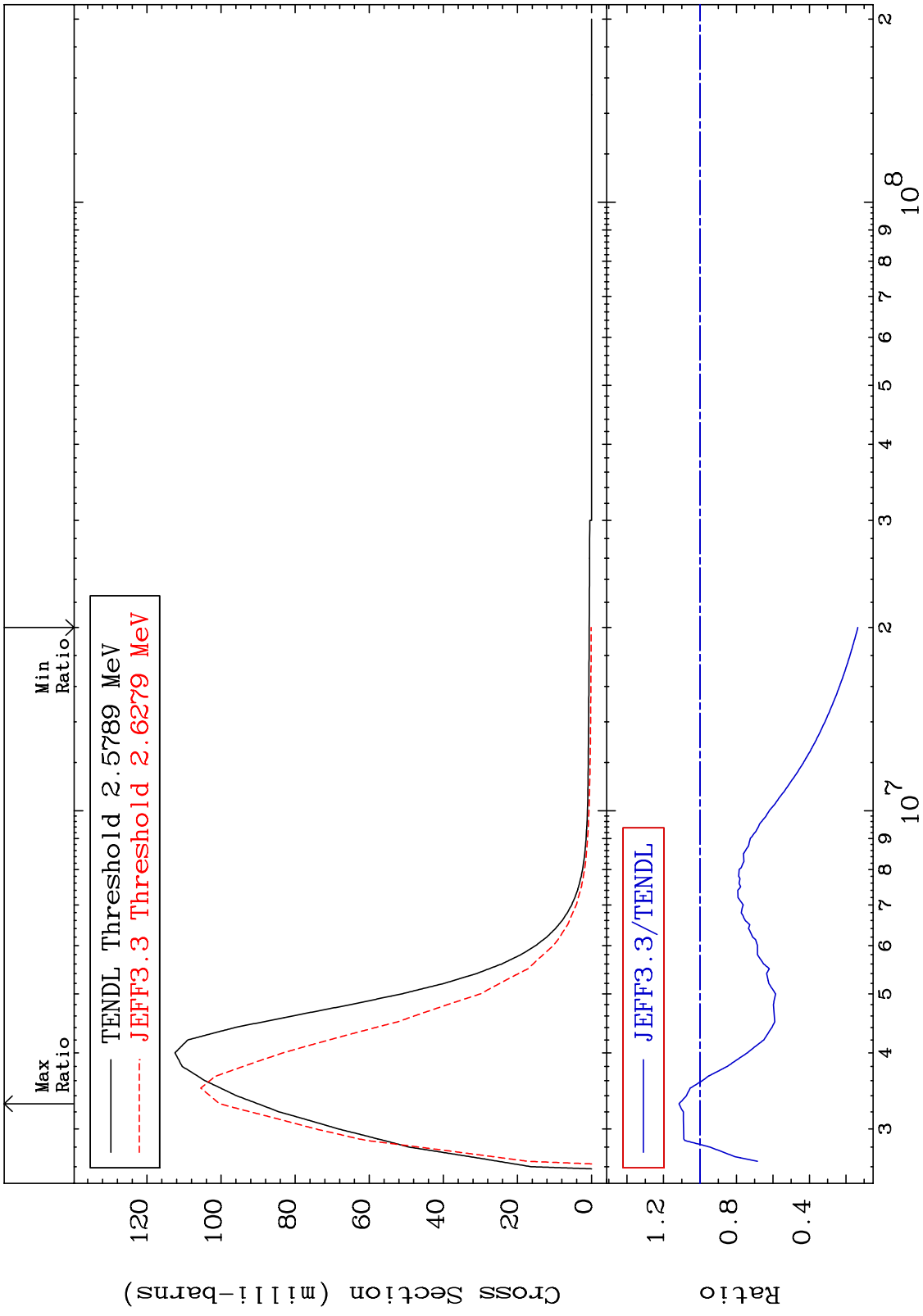


MAT 5461 MT= 59 (n,n') Level Cross Section 54-Xe-136 -85.08 To 3.160 %



16 54-Xe-136 Incident Energy (eV)

MAT 5461 MT= 60 (n,n') Level Cross Section 54-Xe-136  
 -86.53 To 11.49 %

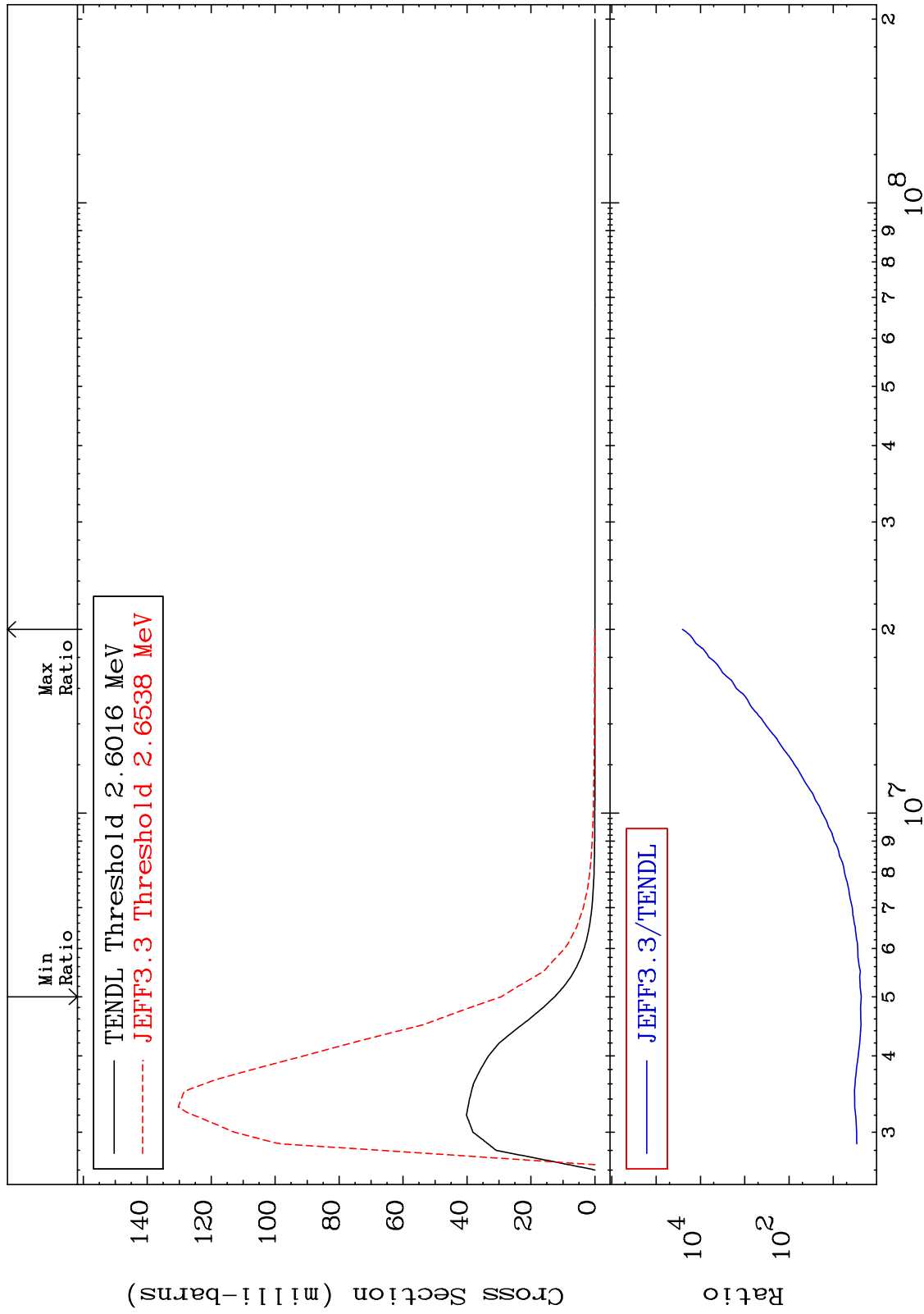


17 54-Xe-136 Incident Energy (eV)

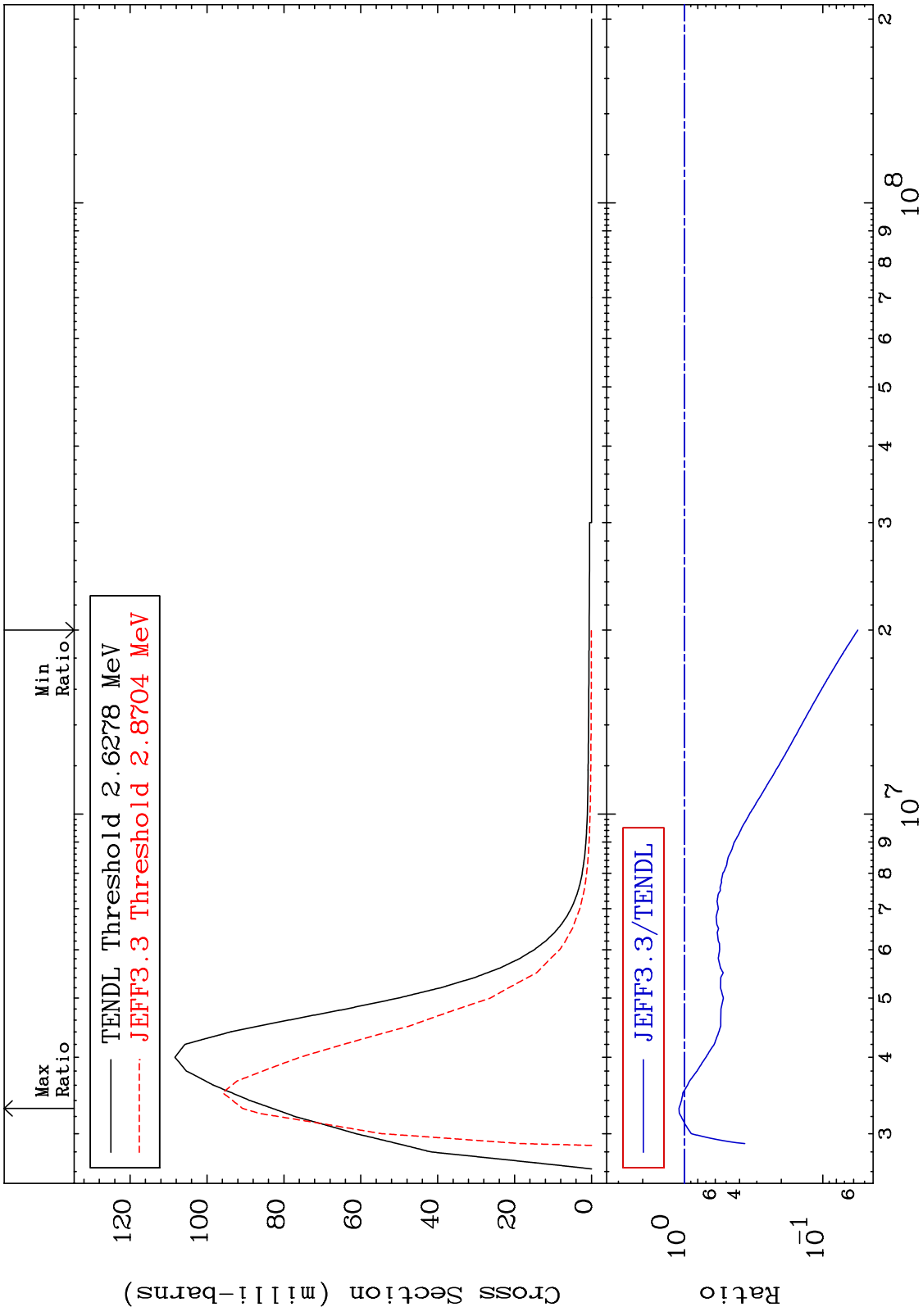
MAT 5461

MT= 61 (n,n') Level  
Cross Section

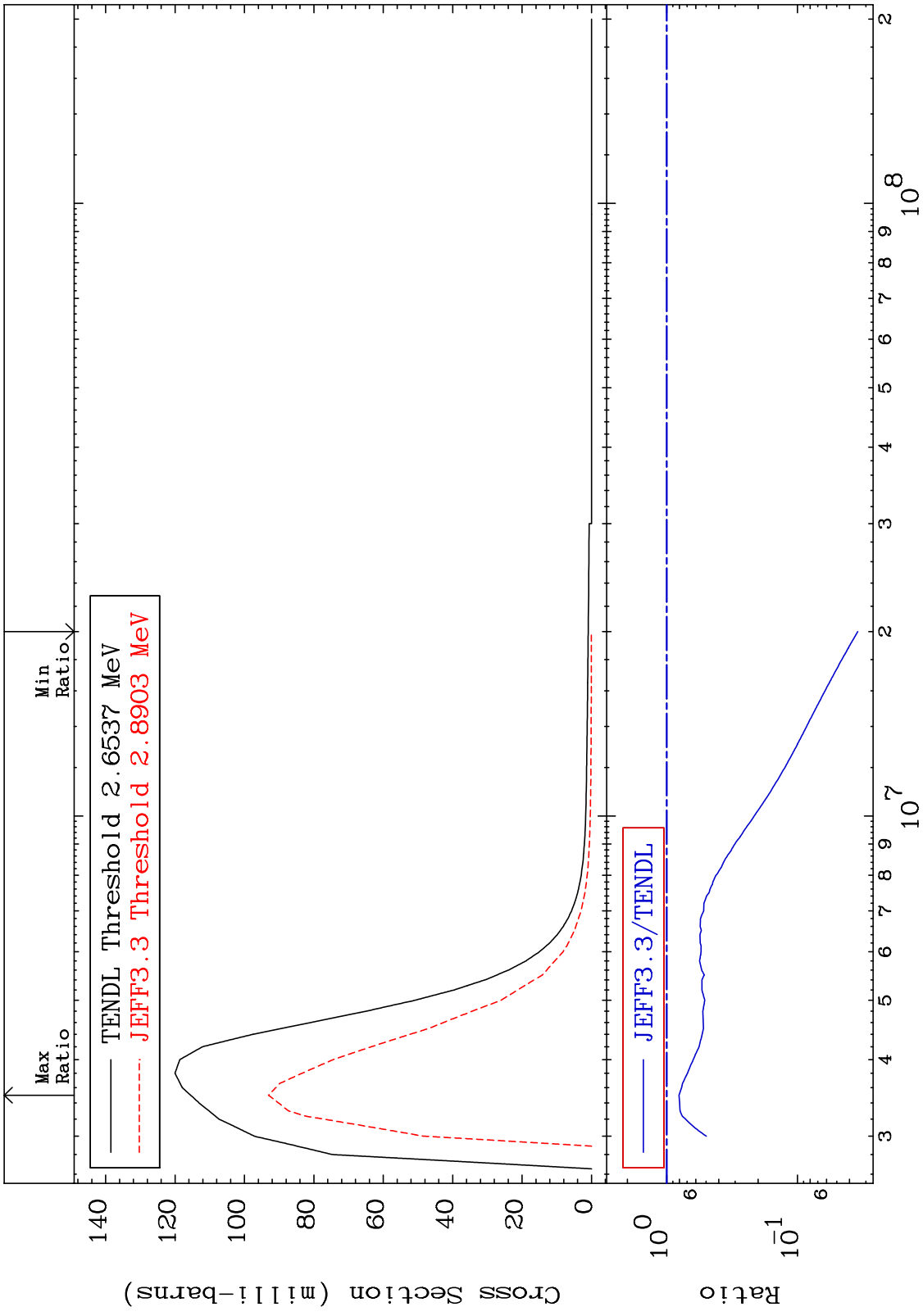
54-Xe-136  
133.1 To 9999. %



MAT 5461 MT= 62 (n,n') Level Cross Section 54-Xe-136 -94.41 To 9.431 %

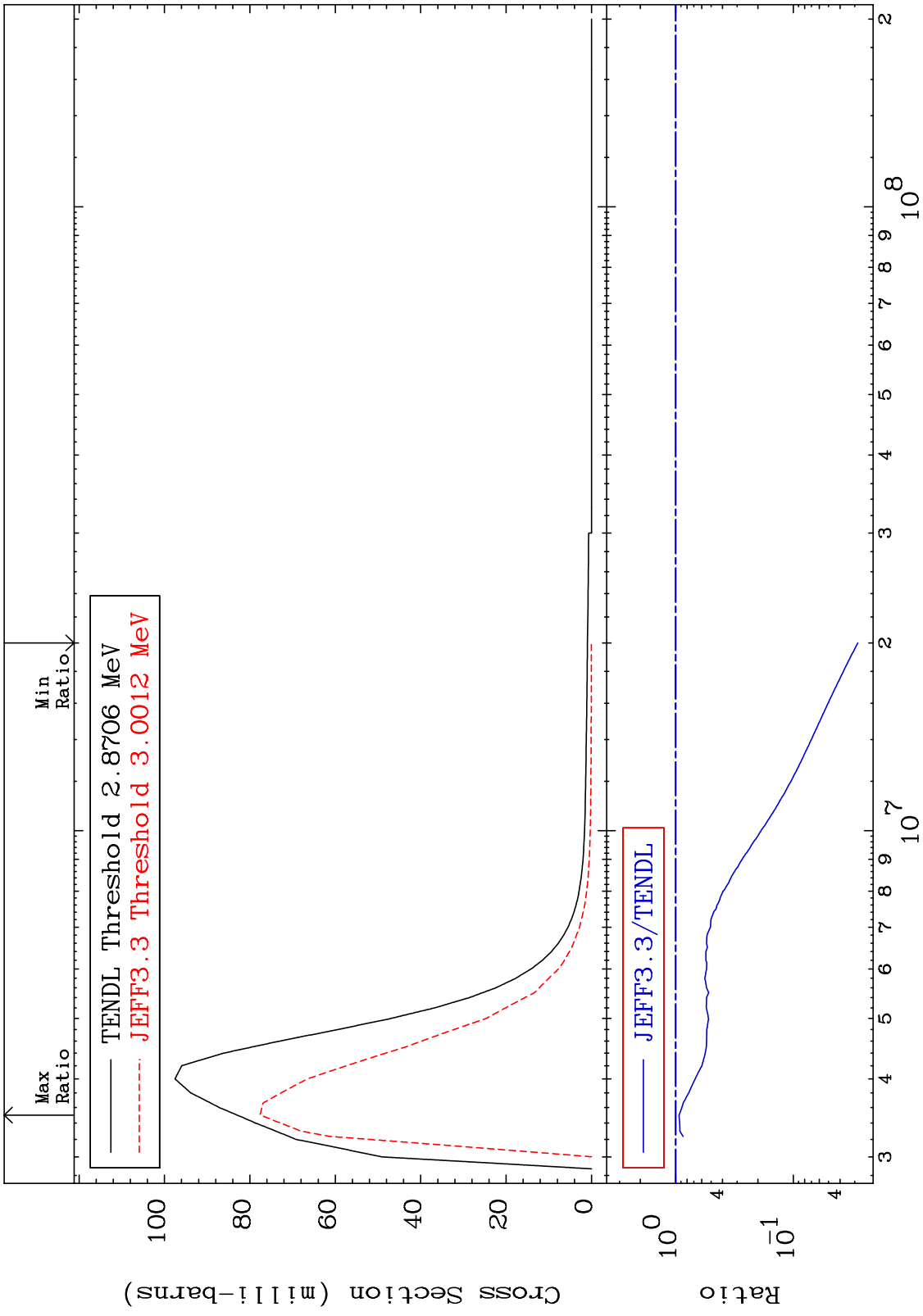


MAT 5461 MT= 63 (n,n') Level Cross Section 54-Xe-136 -96.55 To -19.43%



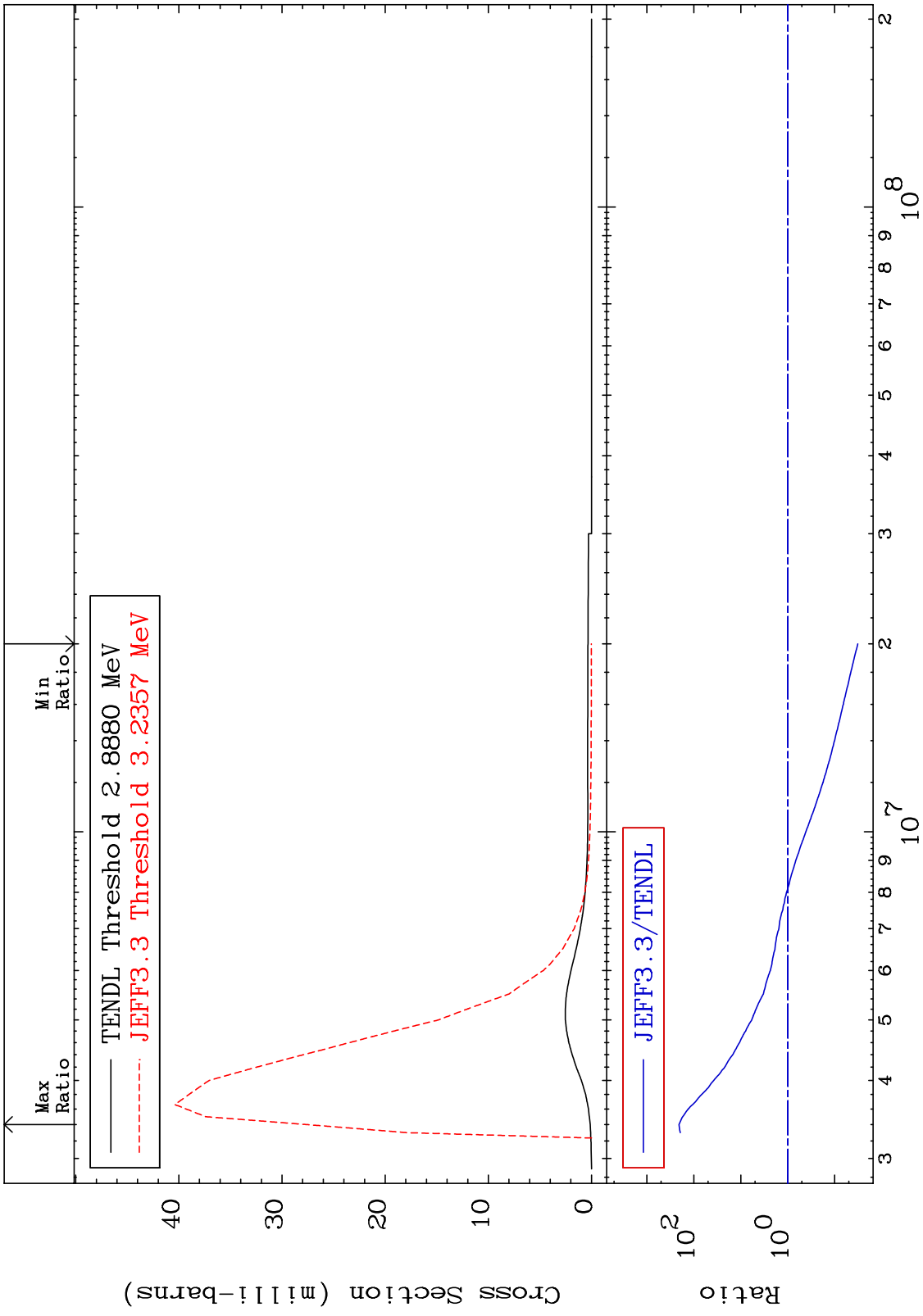
20 54-Xe-136 Incident Energy (eV)

MAT 5461 MT= 64 (n,n') Level Cross Section 54-Xe-136 -97.18 To -6.425%

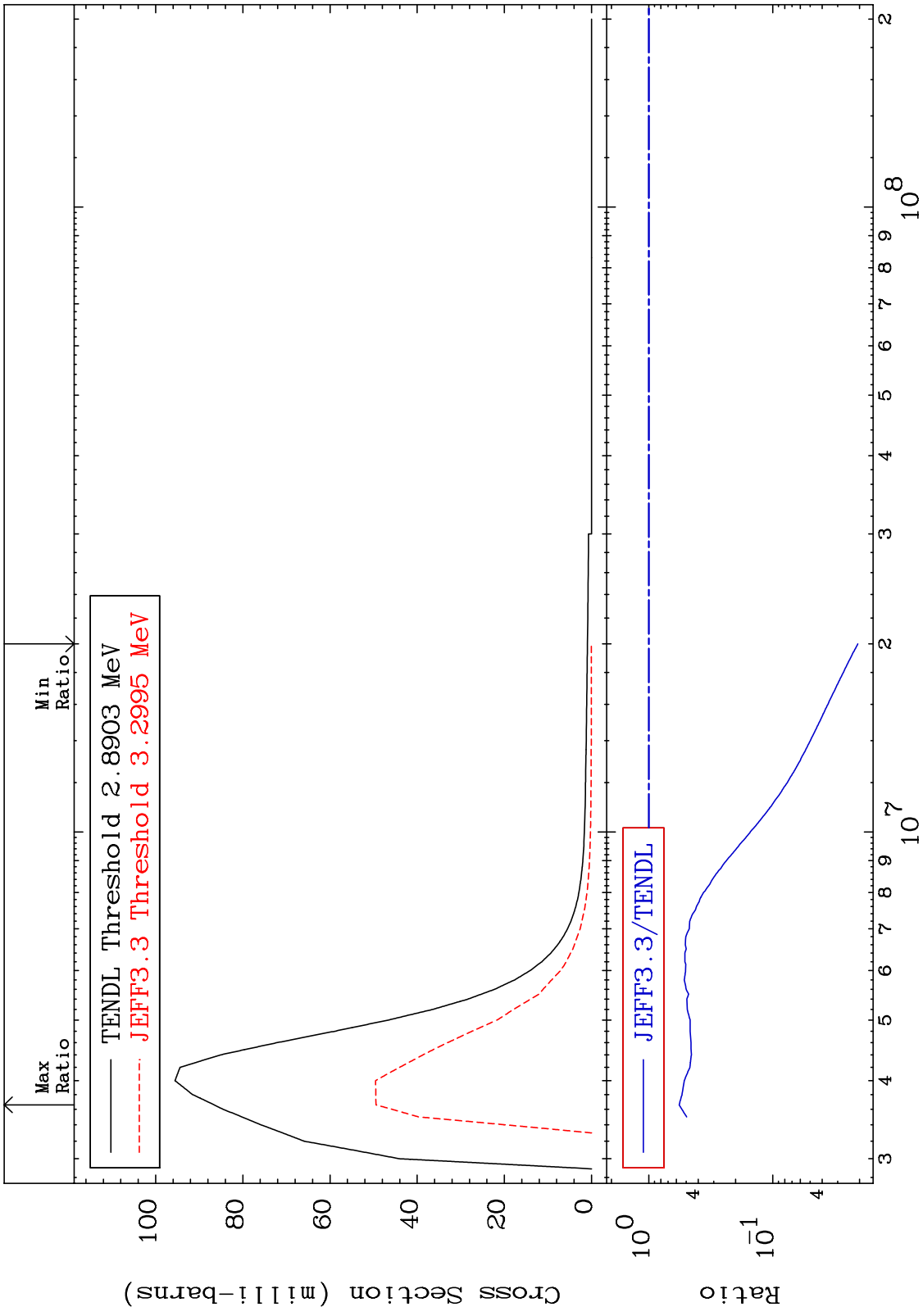


Incident Energy (eV) 54-Xe-136

MAT 5461 MT= 65 (n,n') Level Cross Section 54-Xe-136 -96.79 To 9999. %



MAT 5461 MT= 66 (n,n') Level Cross Section 54-Xe-136 -97.94 To -42.91%

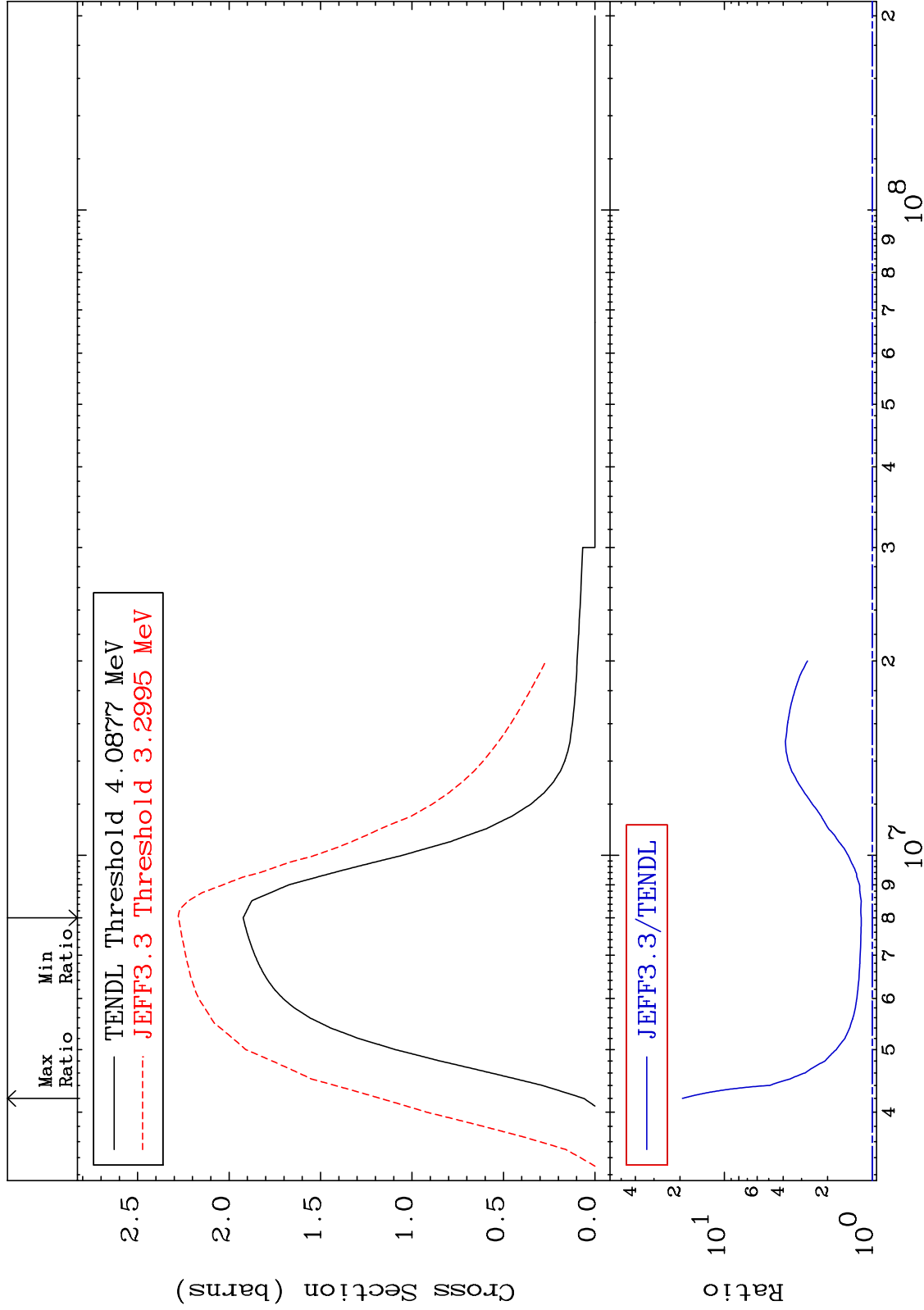




MAT 5461

(n,n') Continuum  
Cross Section

54-Xe-136  
18.37 To 1822. %

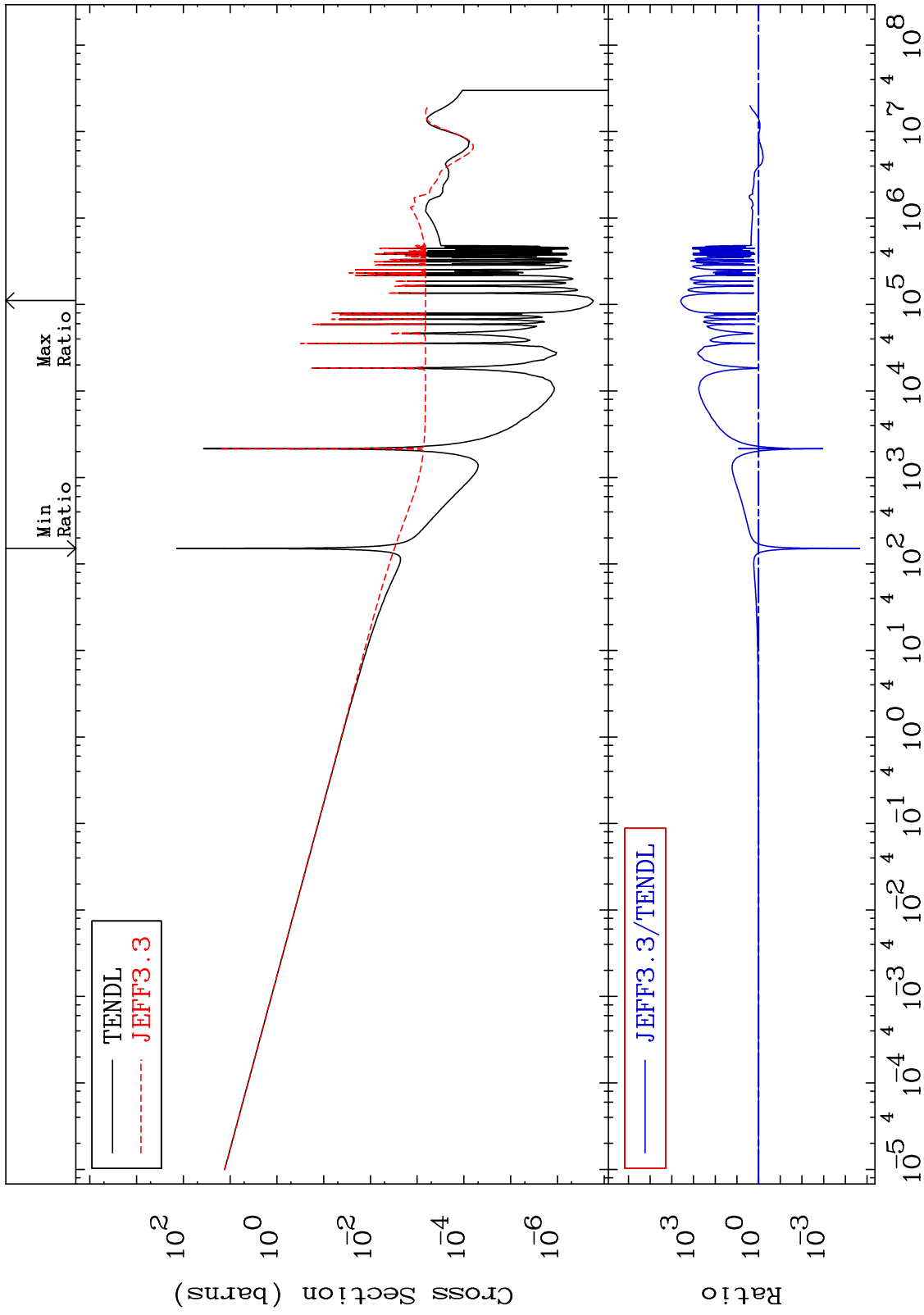


MAT 5461

(n,  $\gamma$ )  
Cross Section

54-Xe-136

-100.0 To 9999. %



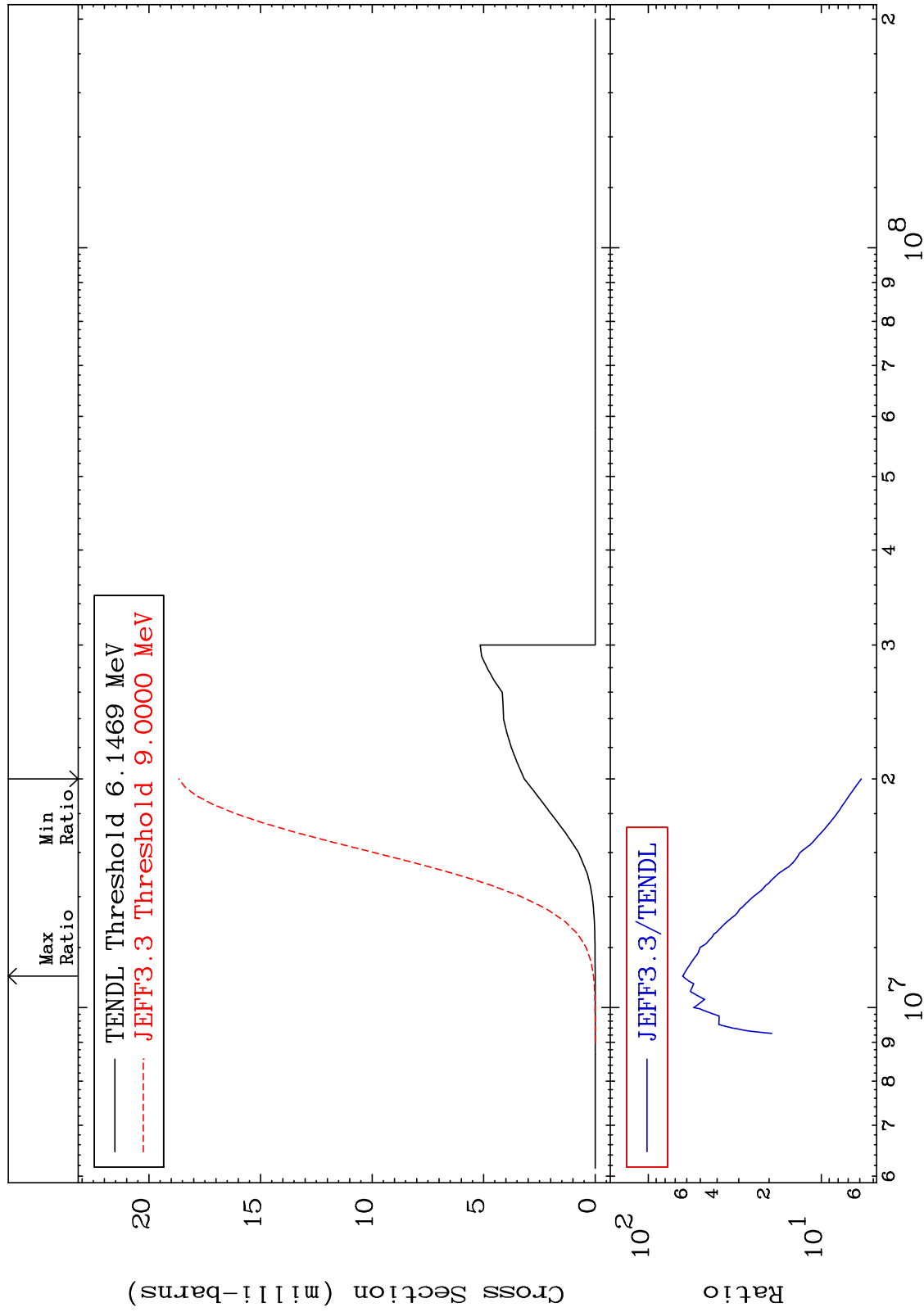
MAT 5461

(n,p)

54-Xe-136

Cross Section

486.7 To 6226. %

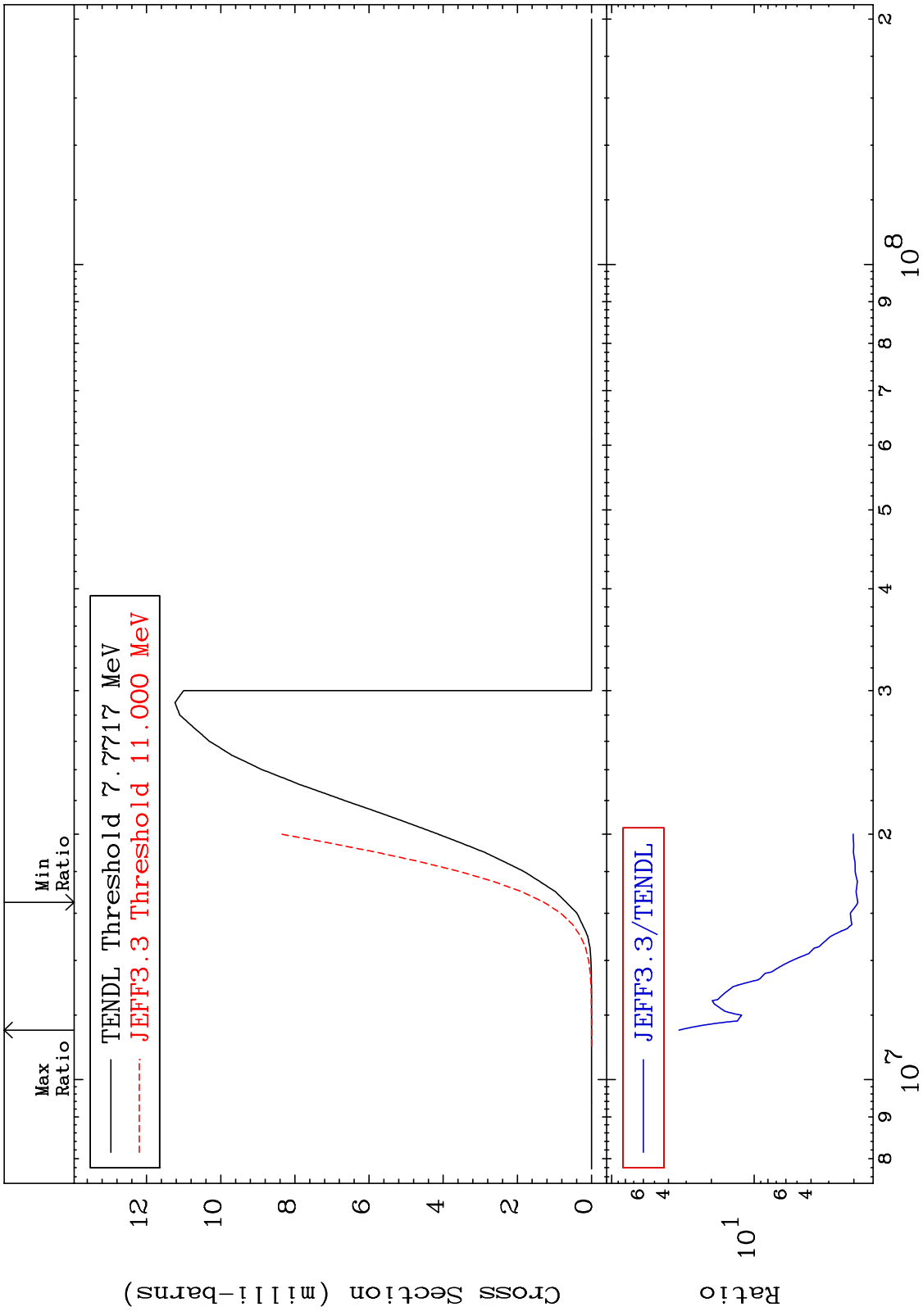


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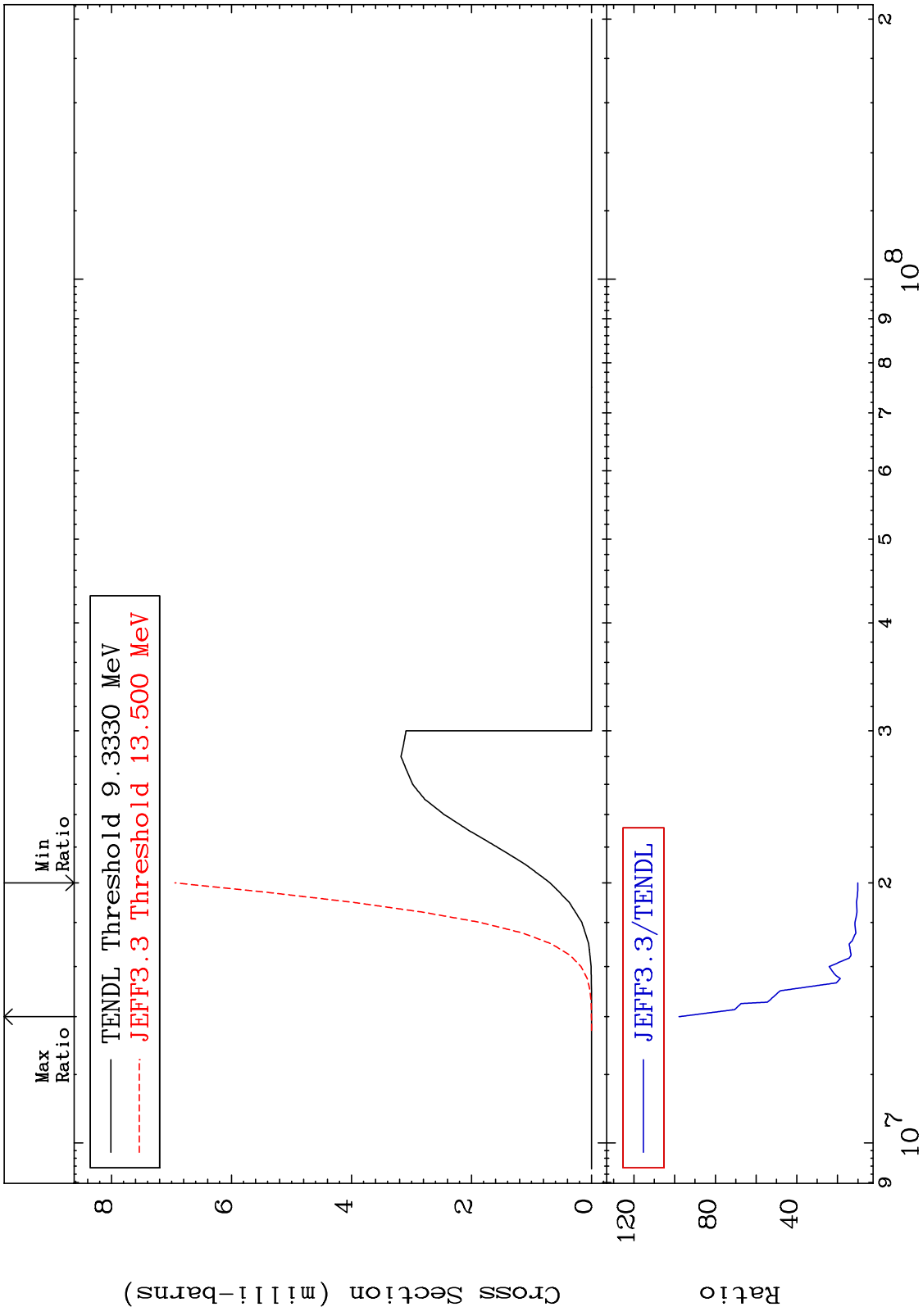
Incident Energy (eV)

54-Xe-136

MAT 5461 (n,d) Cross Section 54-Xe-136 87.50 To 3267. %



MAT 5461 (n,t) Cross Section 54-Xe-136 904.4 To 9684. %



28 Incident Energy (eV) 54-Xe-136

MAT 5461

(n,  $\alpha$ )

54-Xe-136

63.46 To 527.8 %

Cross Section

Min Ratio

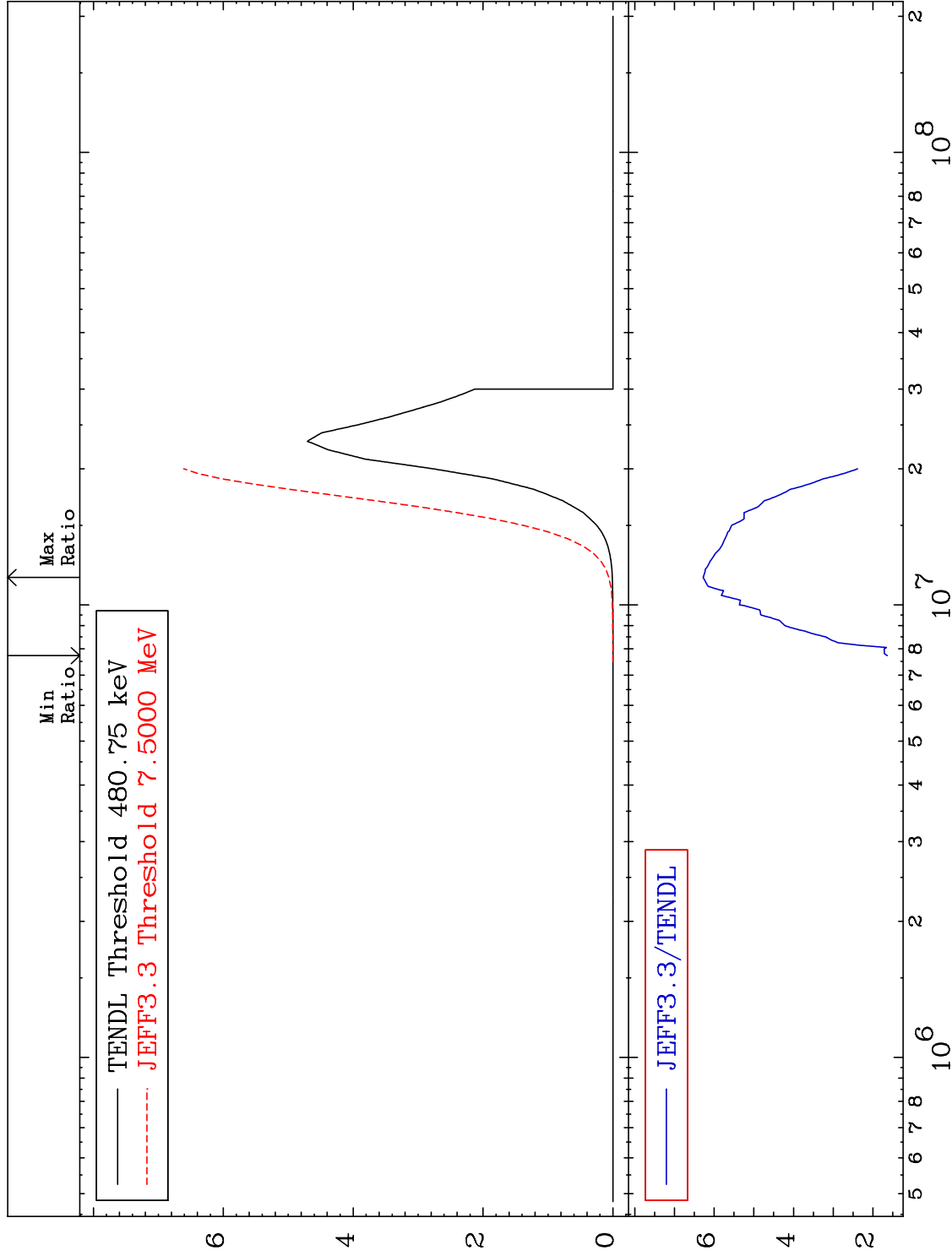
Max Ratio

TENDL Threshold 480.75 keV  
JEFF3.3 Threshold 7.5000 MeV

Cross Section (milli-barns)

JEFF3.3/TENDL

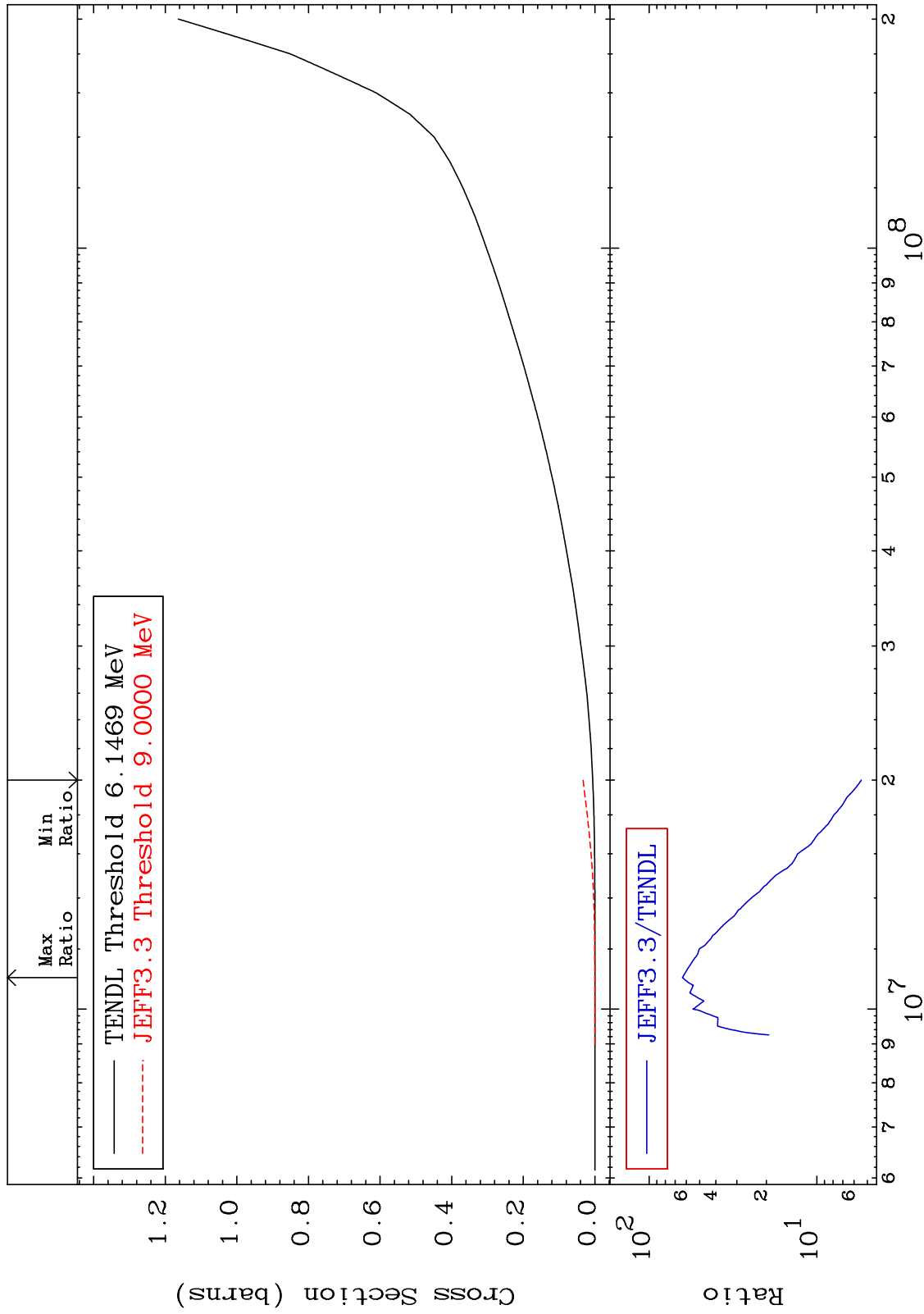
Ratio



MAT 5461

Hydrogen Production  
Cross Section

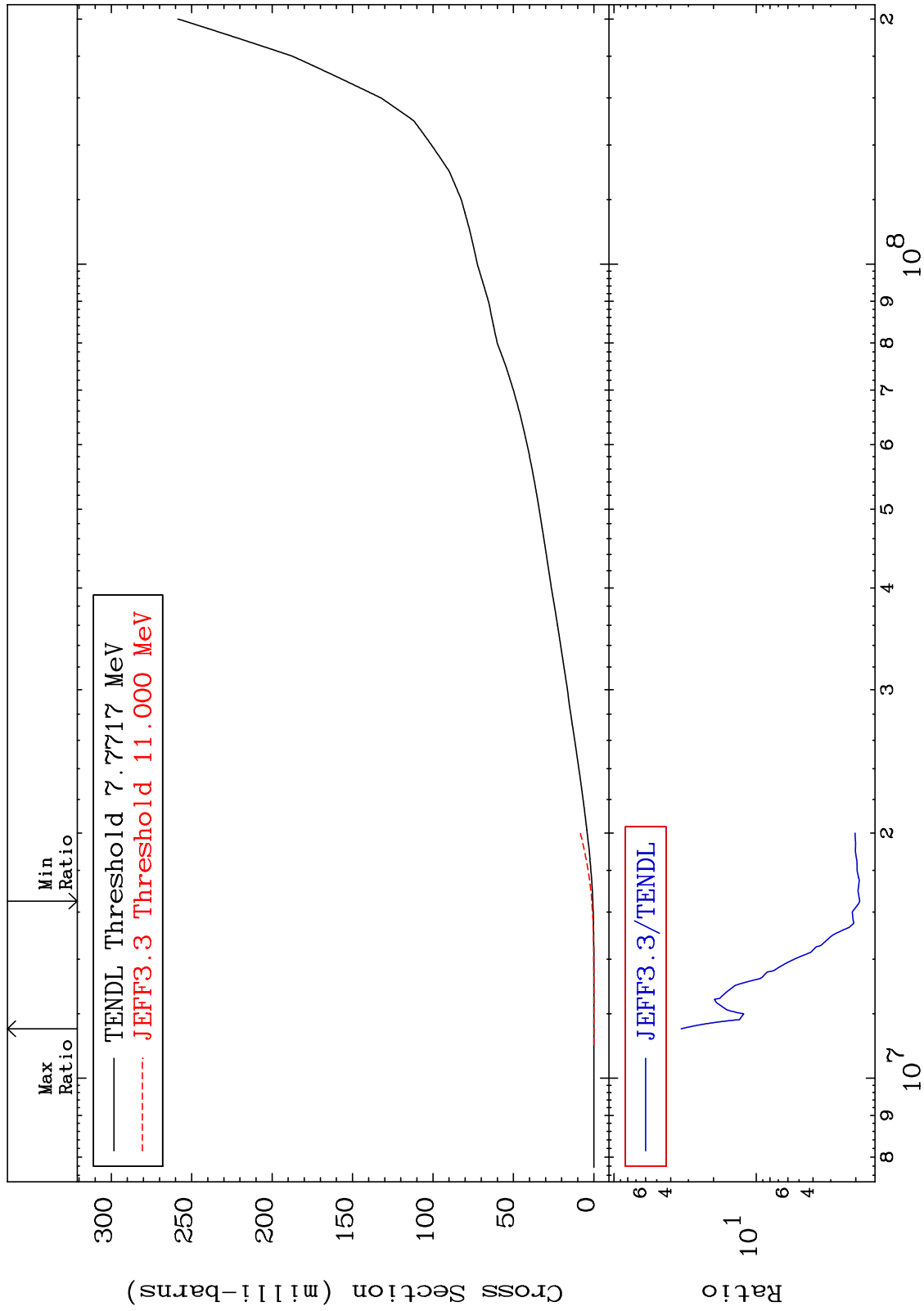
54-Xe-136  
443.1 To 6226. %



MAT 5461

Deuterium Production  
Cross Section

54-Xe-136  
87.50 To 3267. %



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Incident Energy (eV)

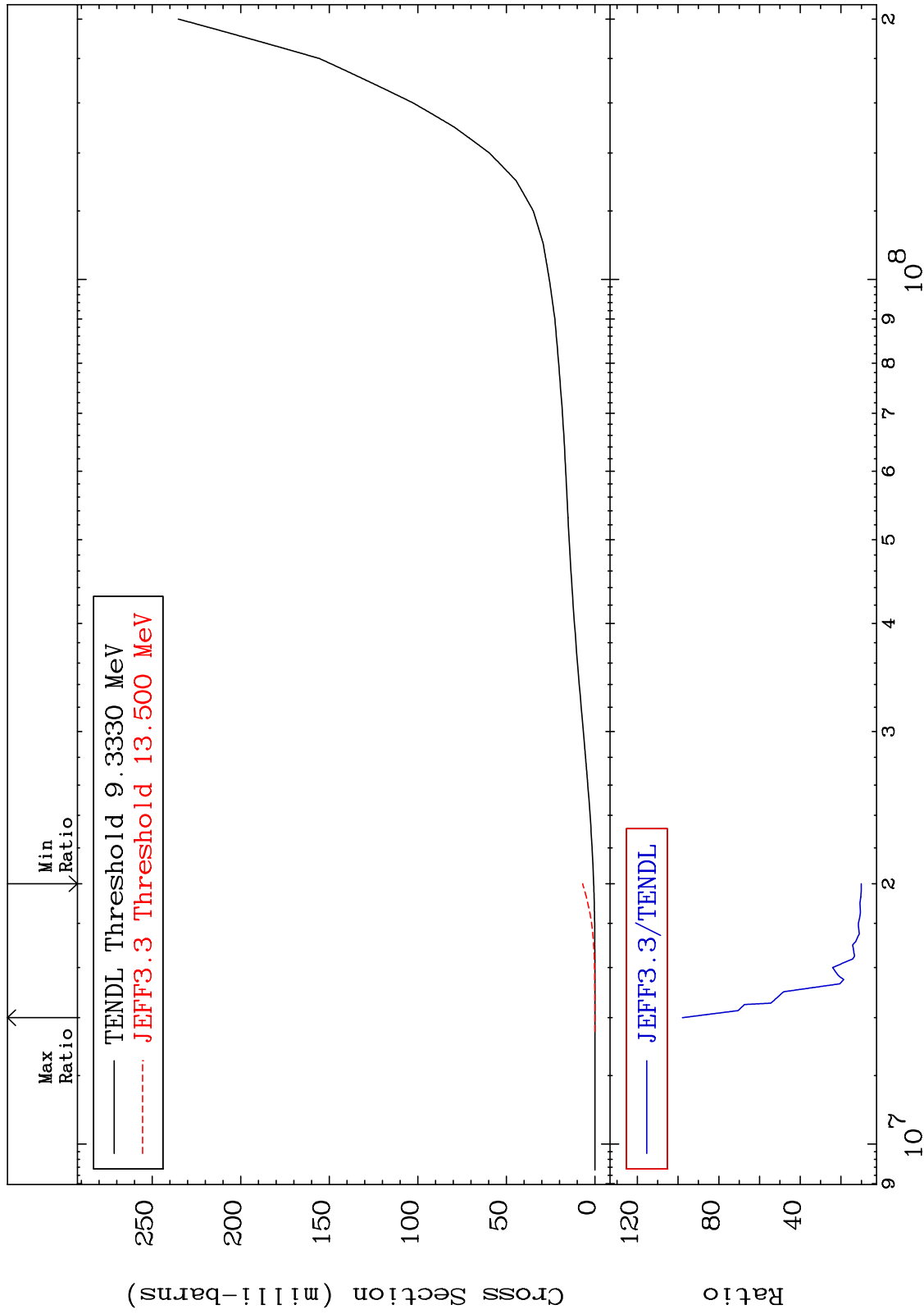
54-Xe-136



MAT 5461

Tritium Production  
Cross Section

54-Xe-136  
904.4 To 9684. %



32

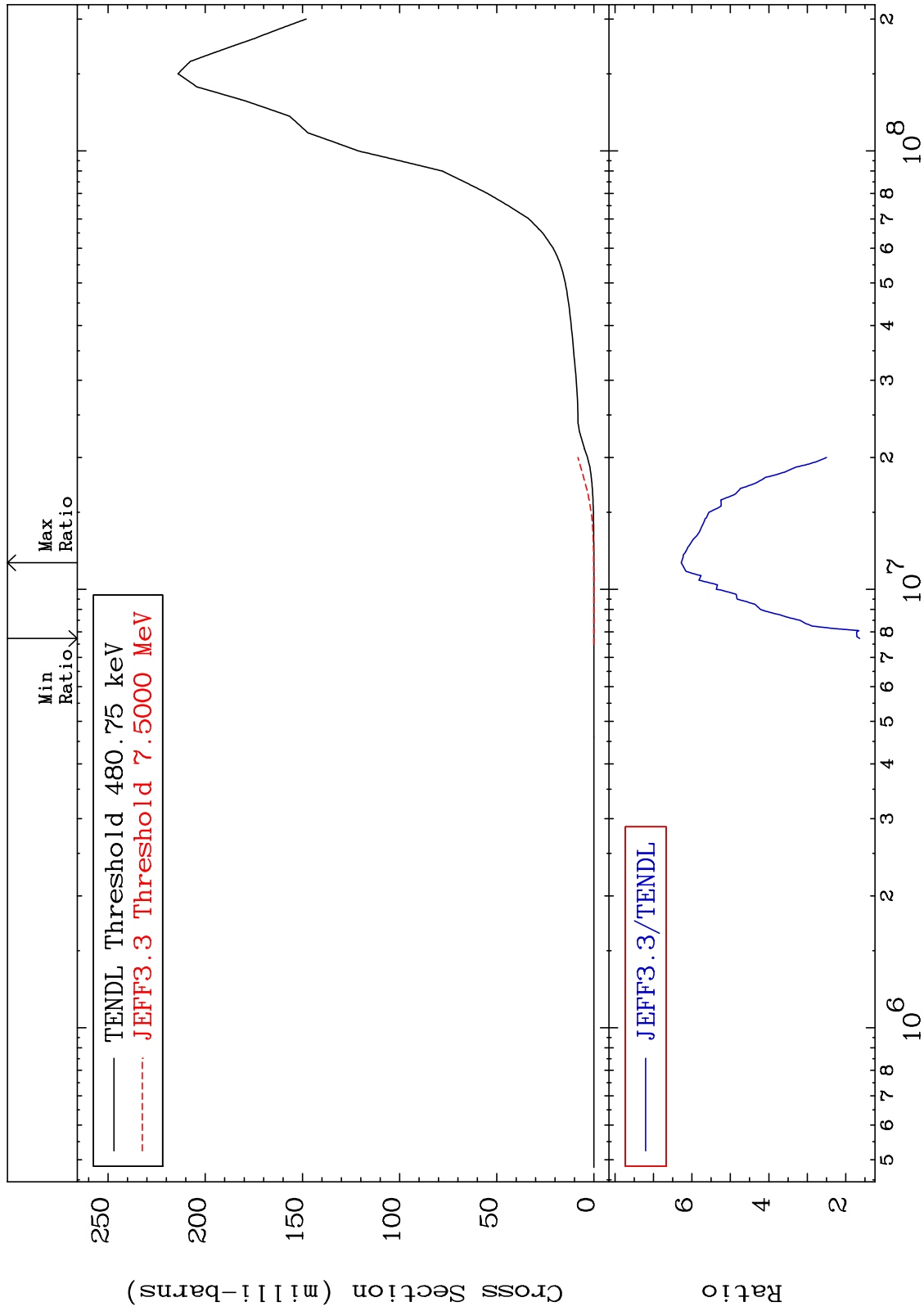
Incident Energy (eV)

54-Xe-136

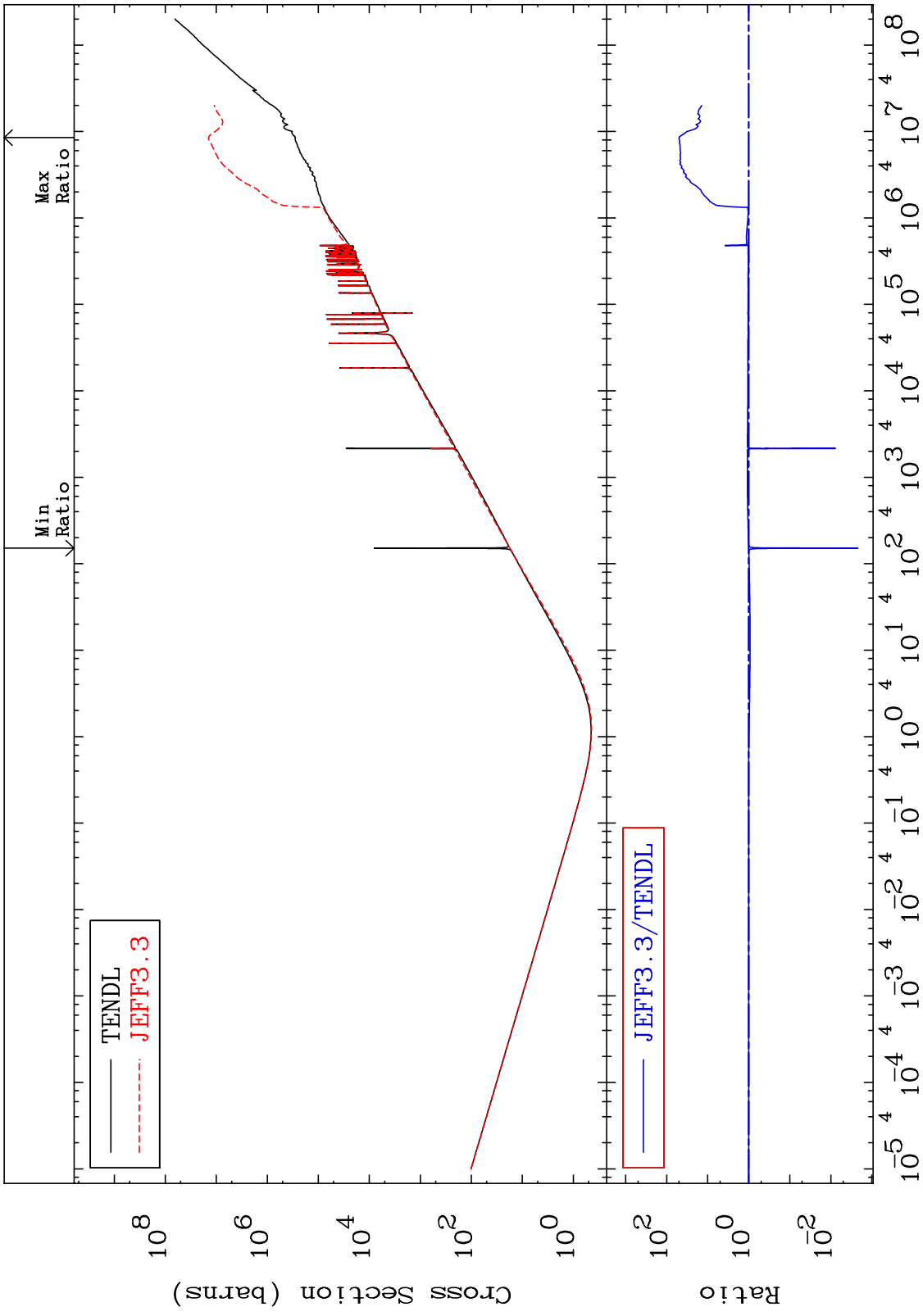
MAT 5461

He-4 Production  
Cross Section

54-Xe-136  
63.46 To 527.7 %



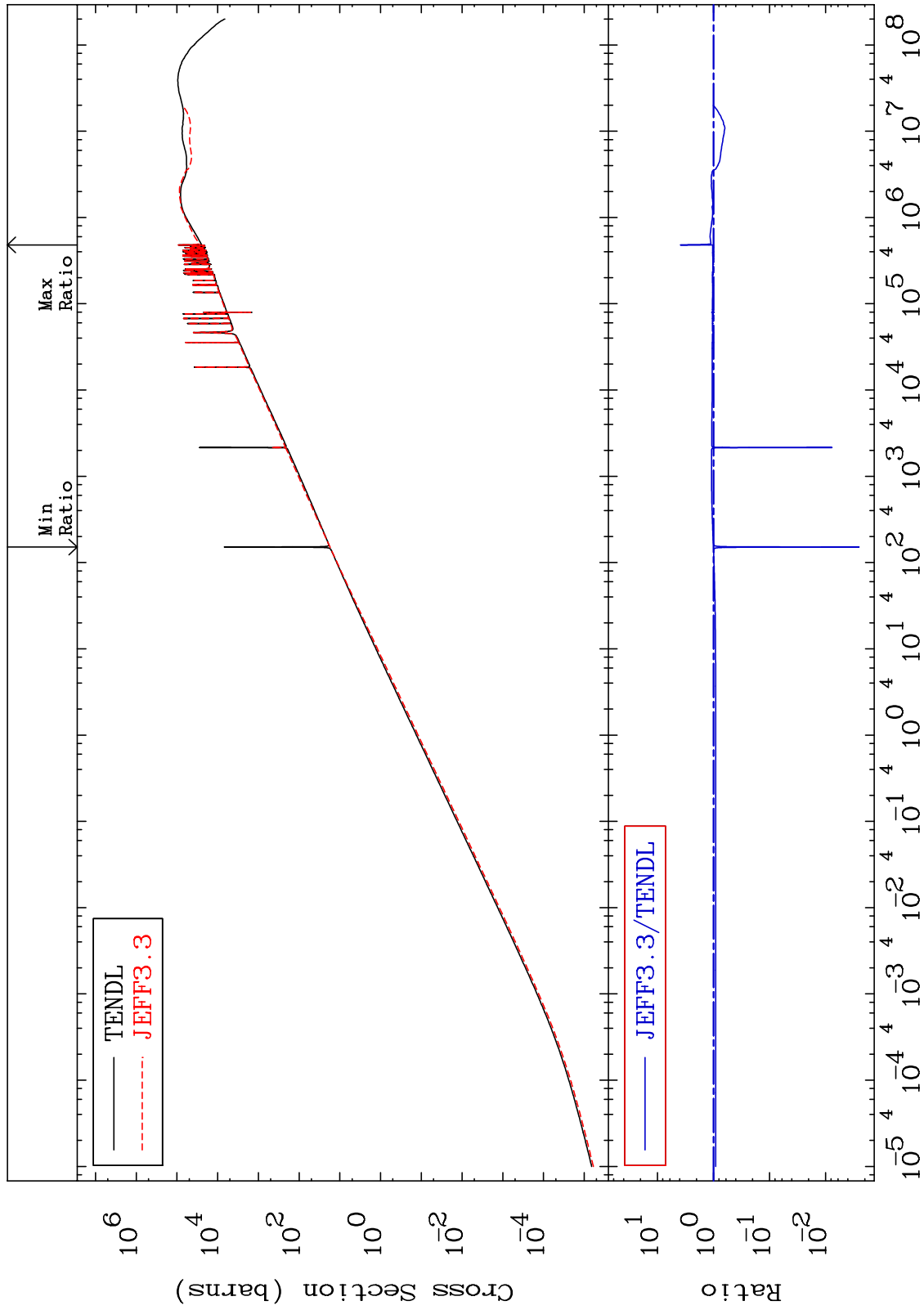
MAT 5461      Kerma total (eV-barns)      54-Xe-136  
 Cross Section      -99.78 To 4896. %



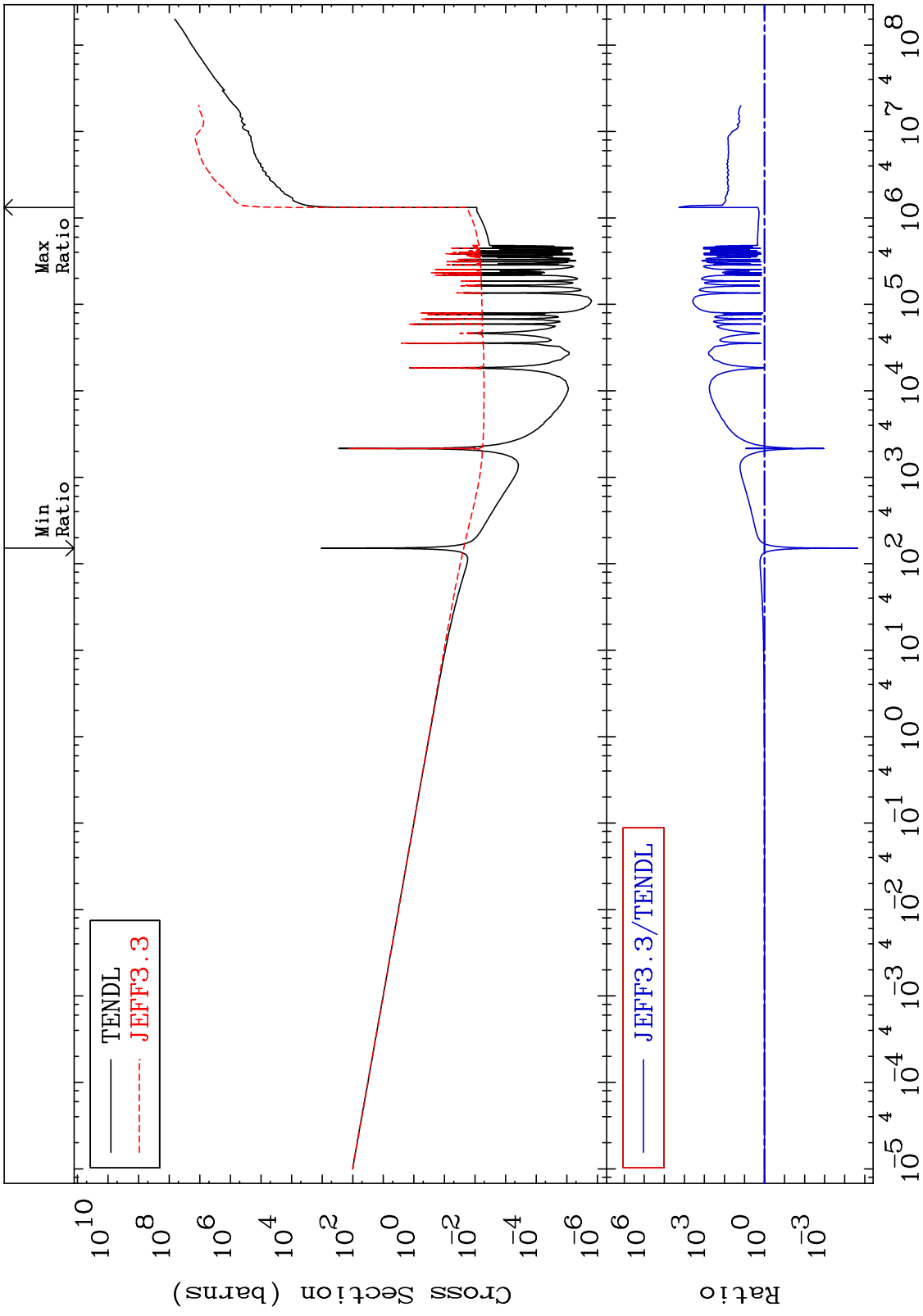
MAT 5461

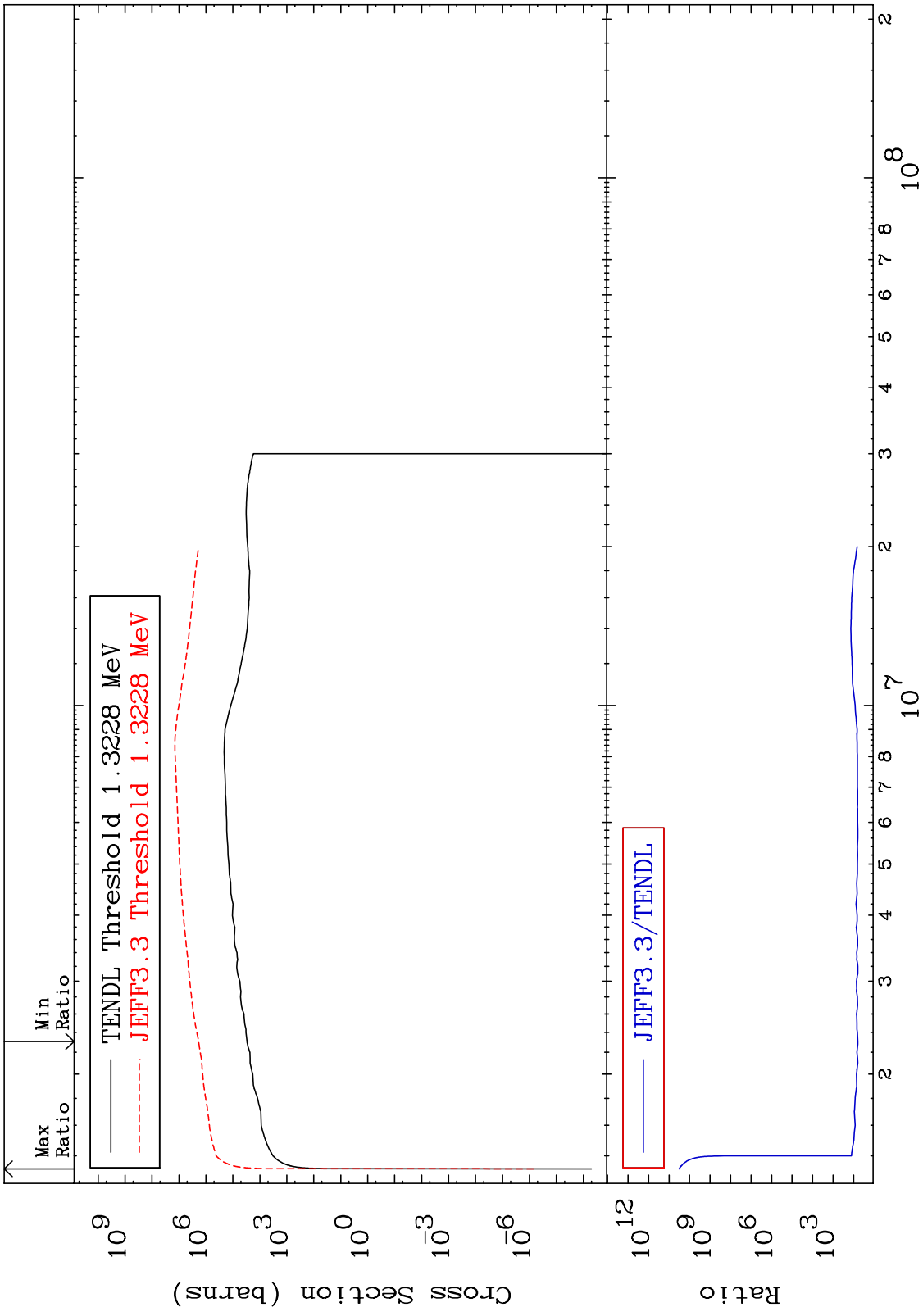
Kerma elastic  
Cross Section

54-Xe-136  
-99.75 To 284.3 %



MAT 5461      Kerma non-elastic (all but mt2)      54-Xe-136  
 Cross Section      -100.0 To 9999. %

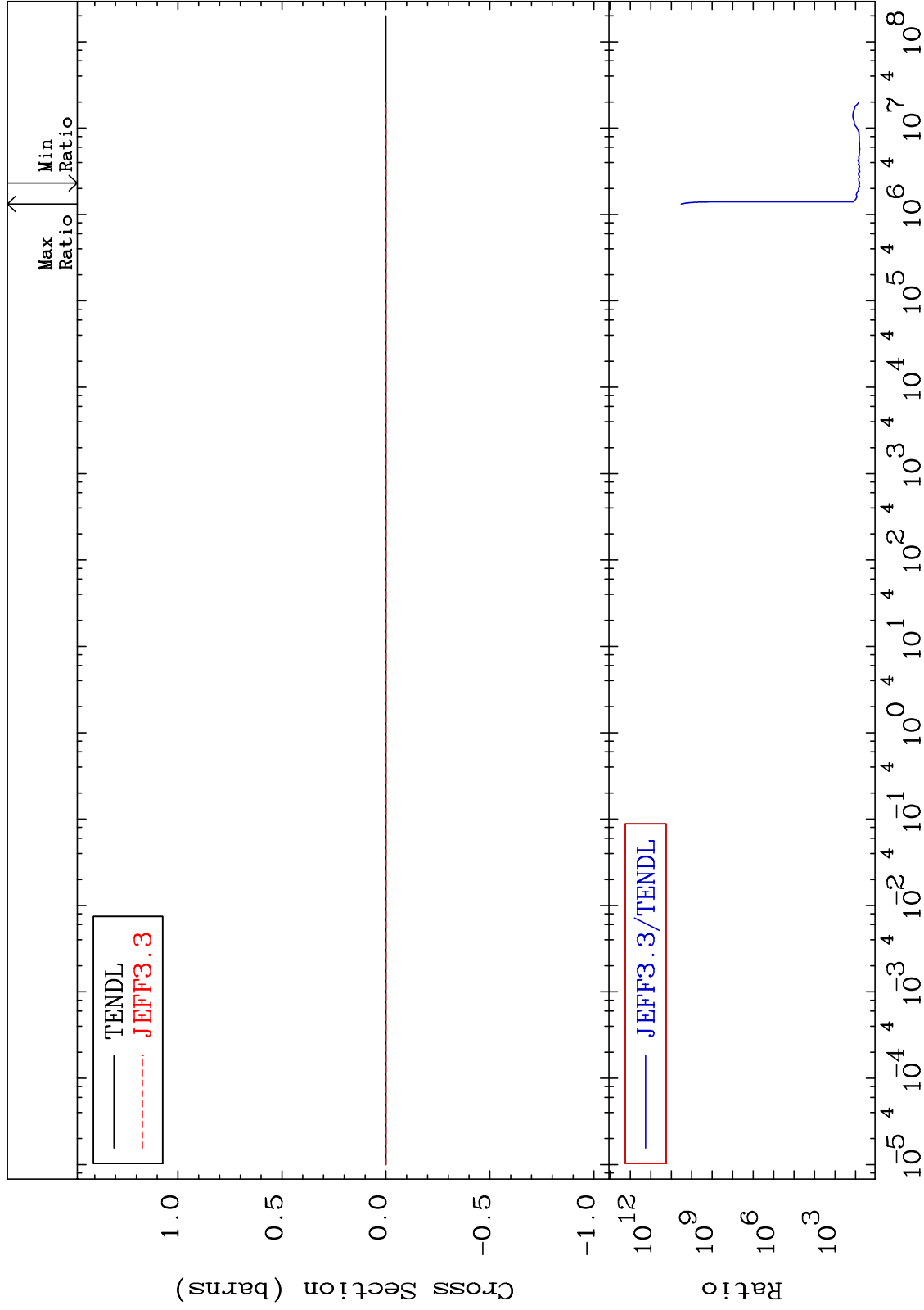




MAT 5461

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

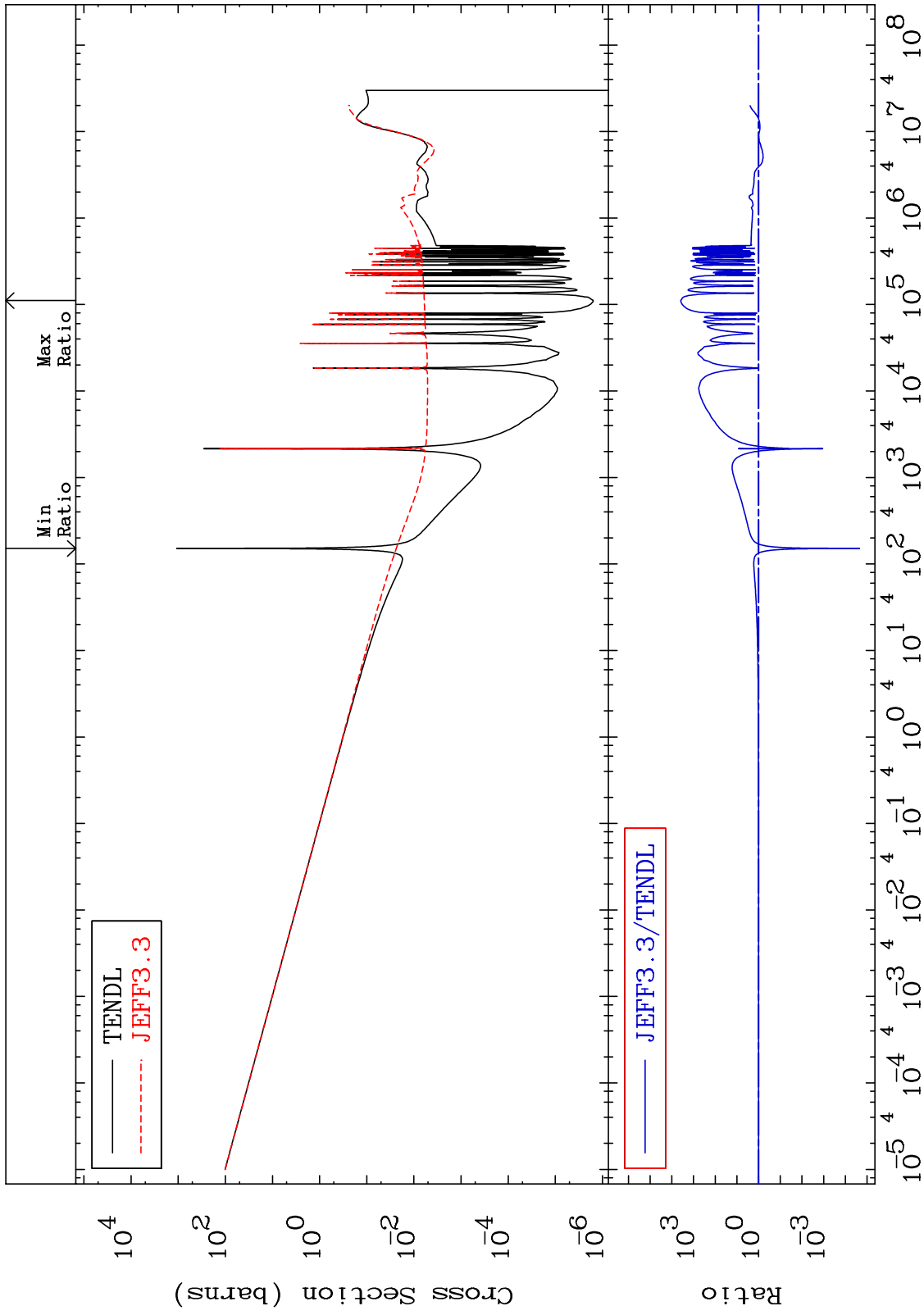
54-Xe-136  
6112. To 9999. %



MAT 5461

Kerma capture (mt102)  
Cross Section

54-Xe-136  
-100.0 To 9999. %

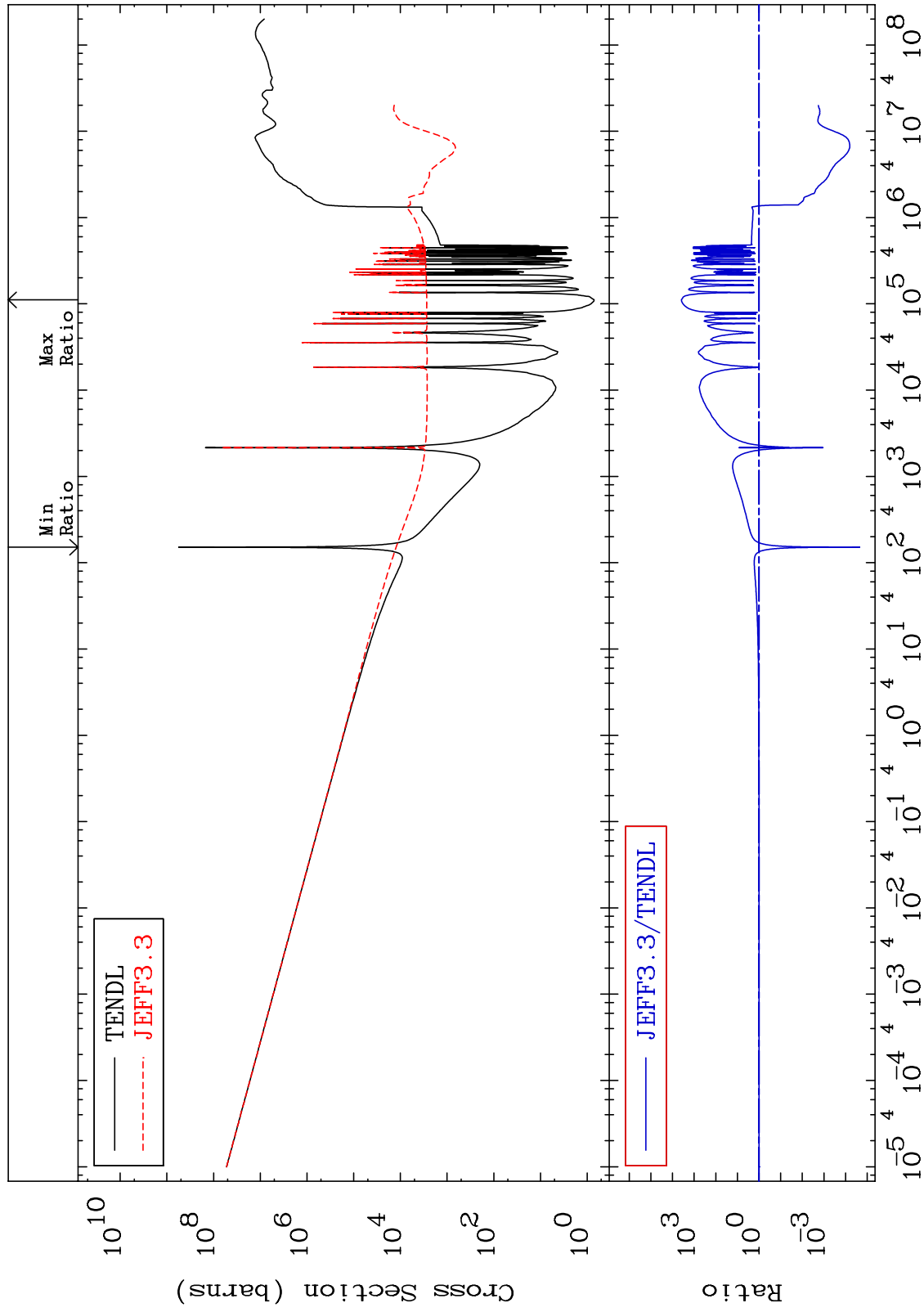




MAT 5461

Total photon (eV-barns)  
Cross Section

54-Xe-136  
-100.0 To 9999. %



40

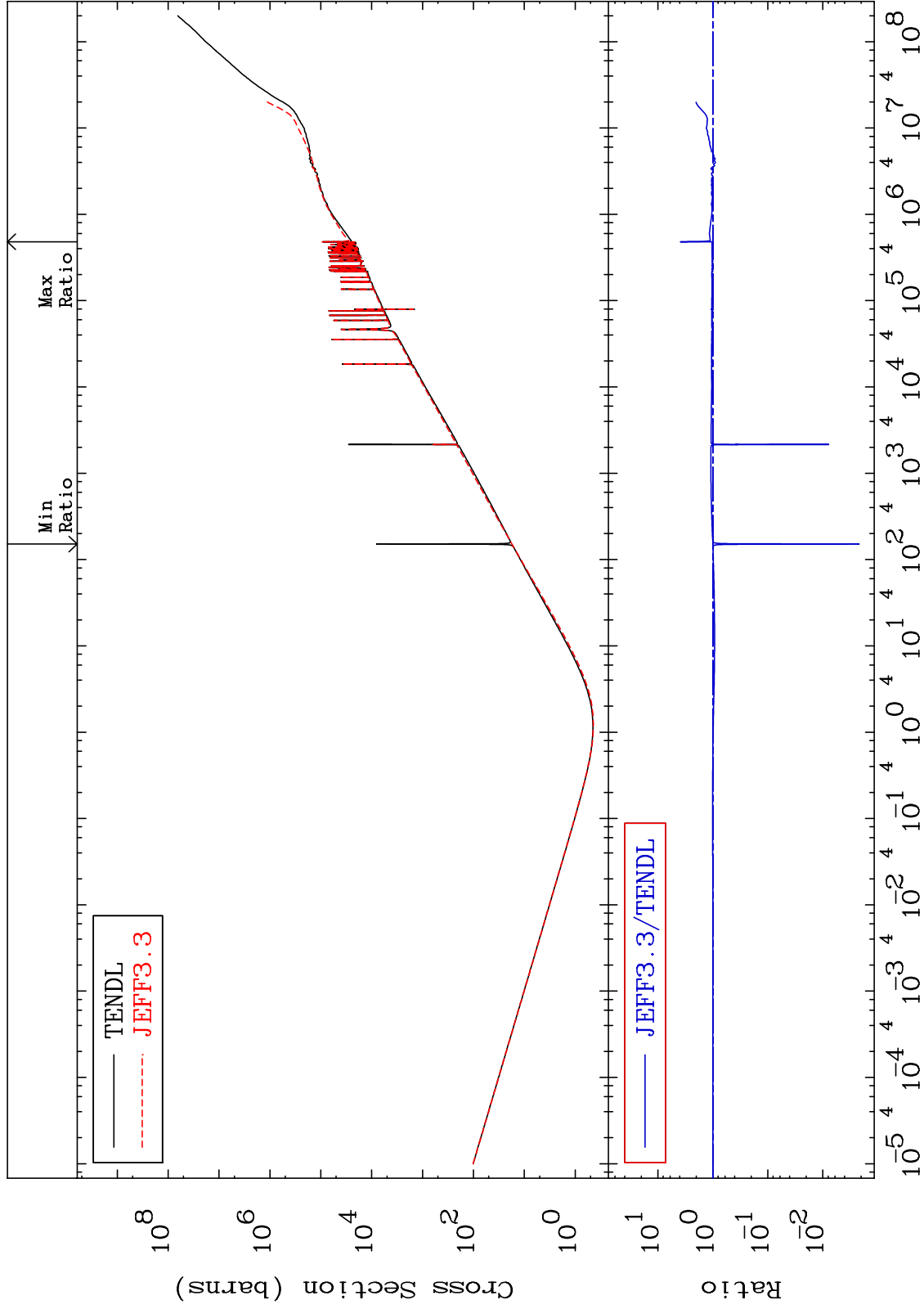
Incident Energy (eV)

54-Xe-136

MAT 5461

Total kinematic kerma (high limit)  
Cross Section

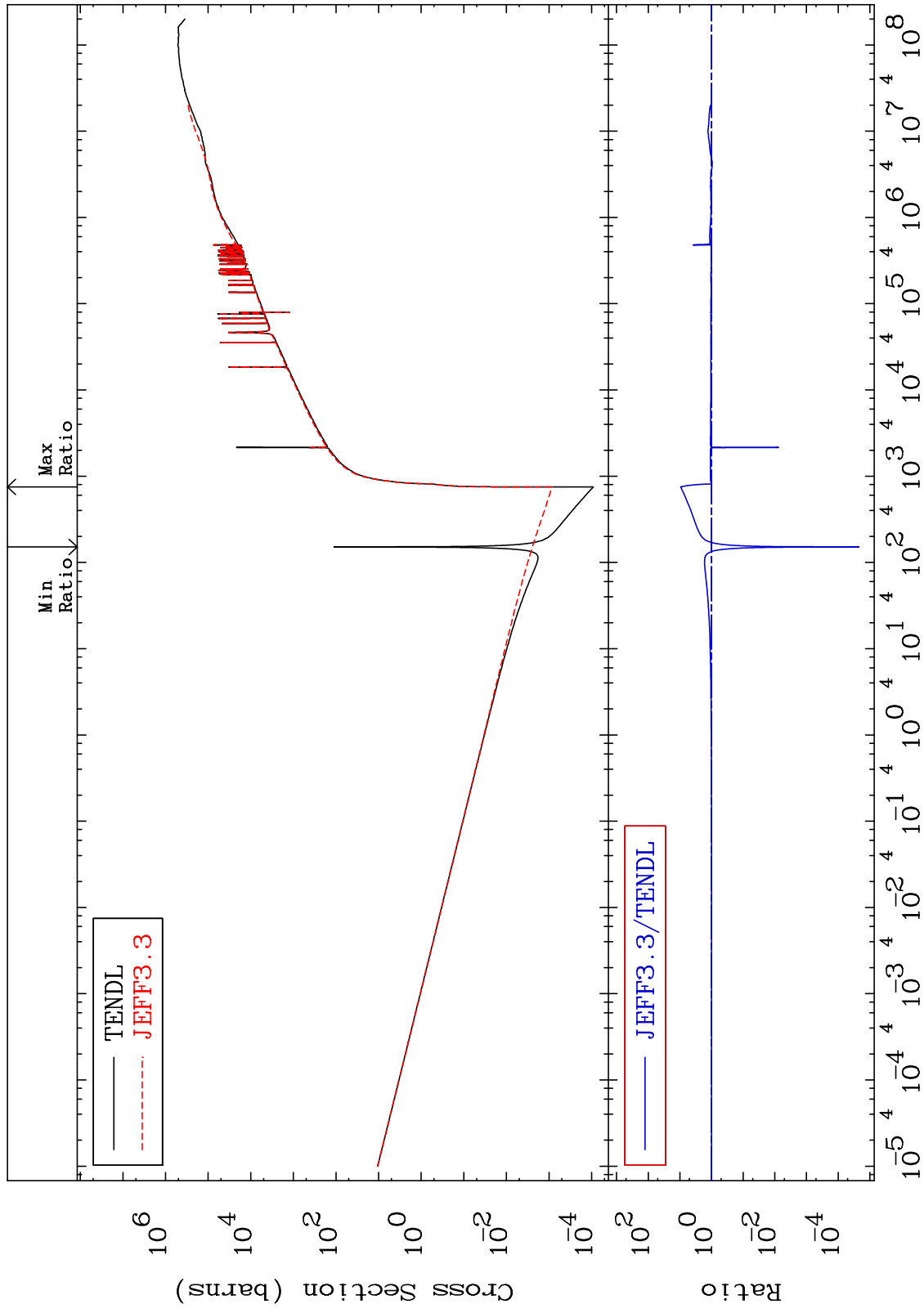
54-Xe-136  
-99.78 To 284.3 %



MAT 5461

Dpa total (eV-barns)  
Cross Section

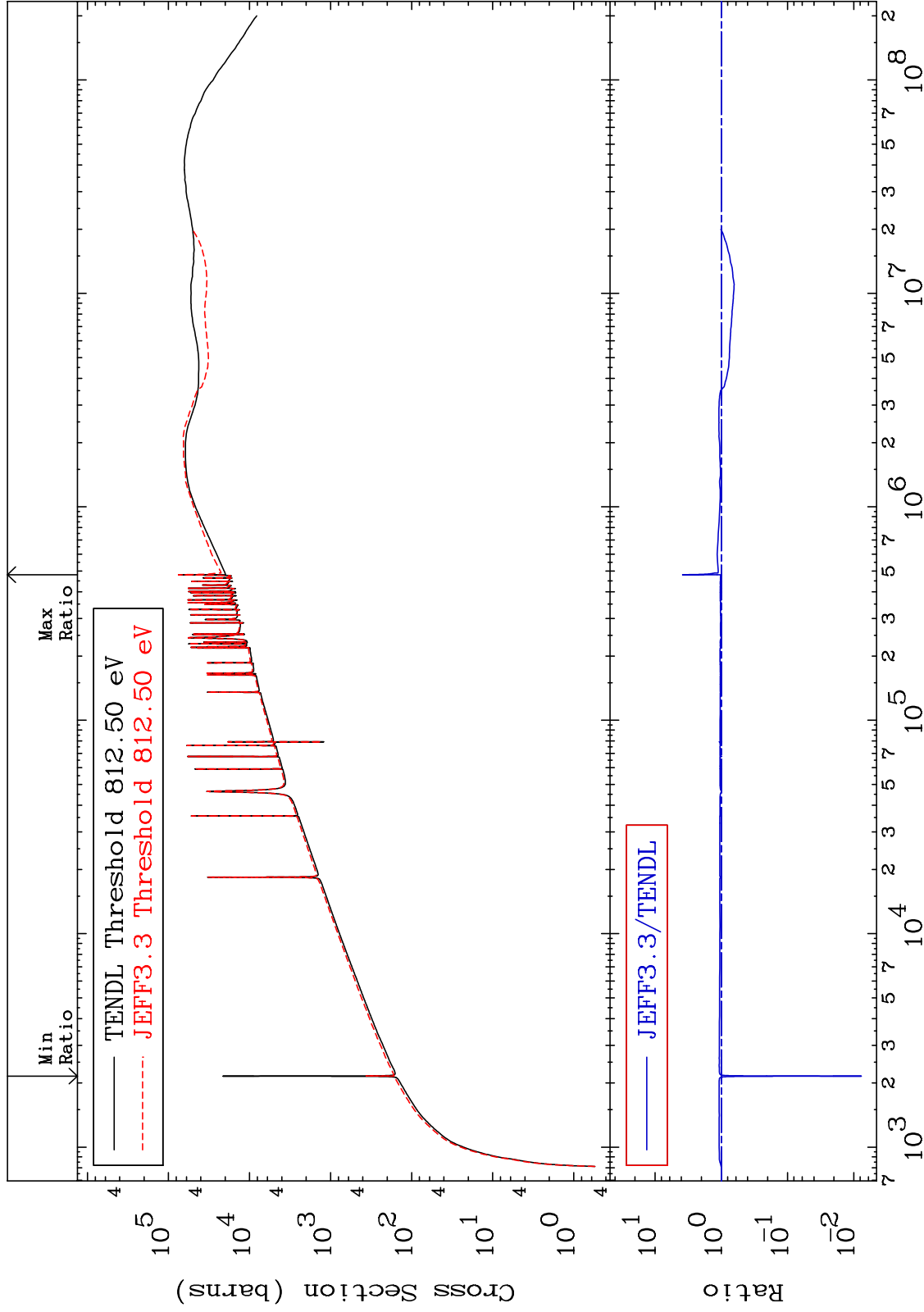
54-Xe-136  
-100.0 To 844.2 %

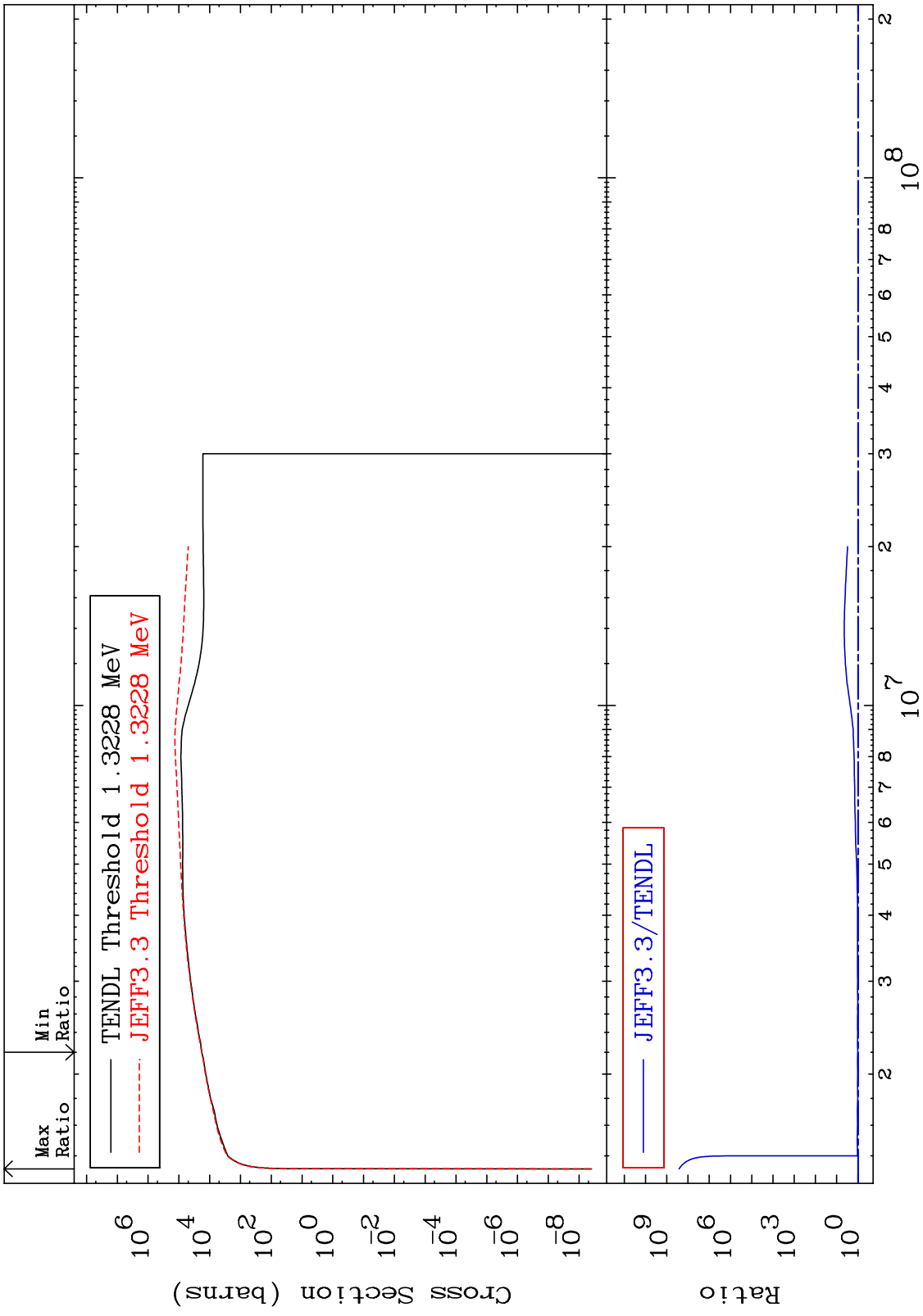


MAT 5461

Dpa elastic (mt2)  
Cross Section

54-Xe-136  
-99.23 To 284.9 %





MAT 5461

Dpa disappearance (mt102 -120)  
Cross Section

54-Xe-136  
-100.0 To 9999. %

