

Program Complot  
(Version 2018-1)

by

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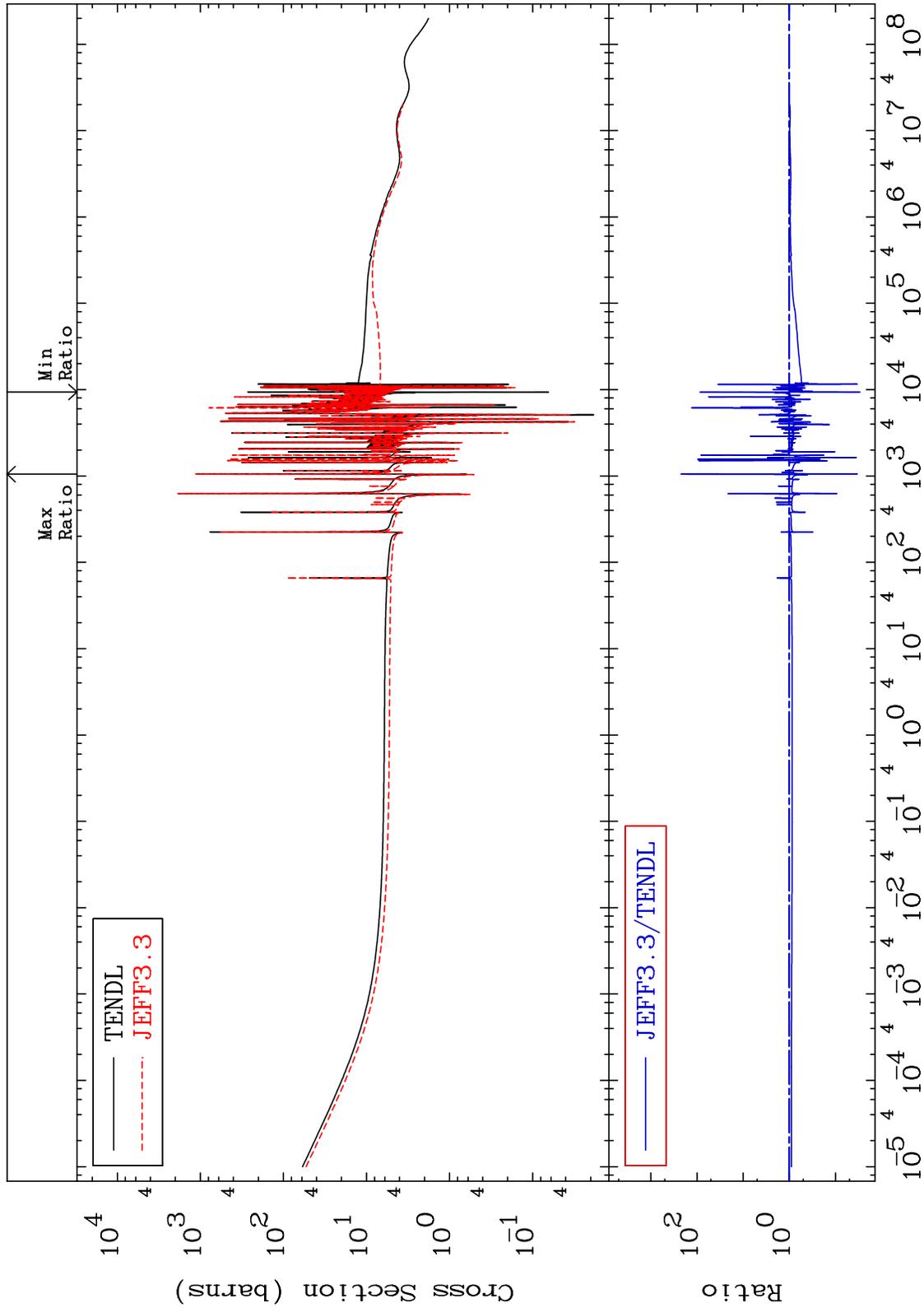
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 4449

Total  
Cross Section

44-Ru-104  
-97.03 To 9999. %



1

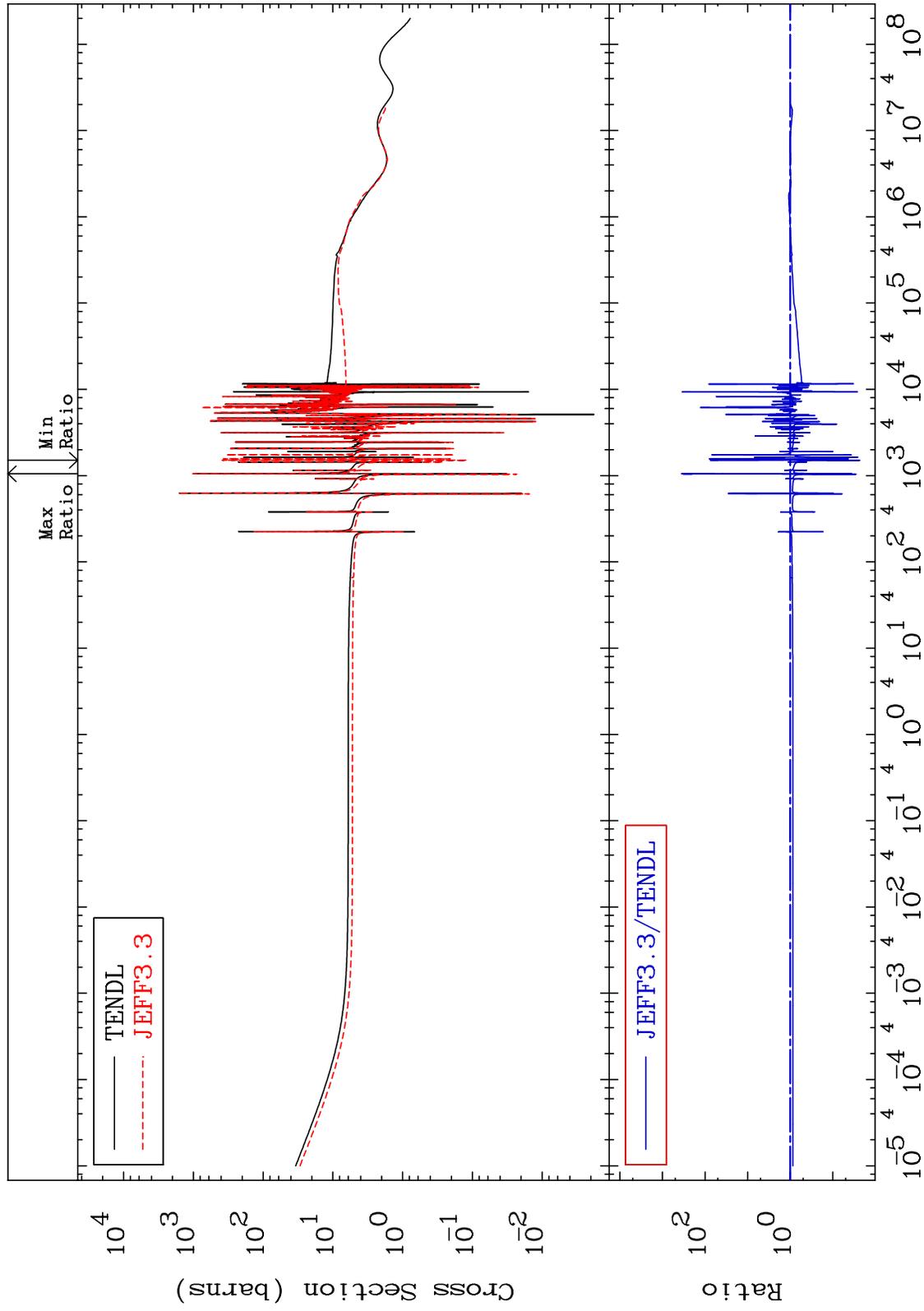
Incident Energy (eV)

44-Ru-104

MAT 4449

Elastic  
Cross Section

44-Ru-104  
-97.68 To 9999. %



2

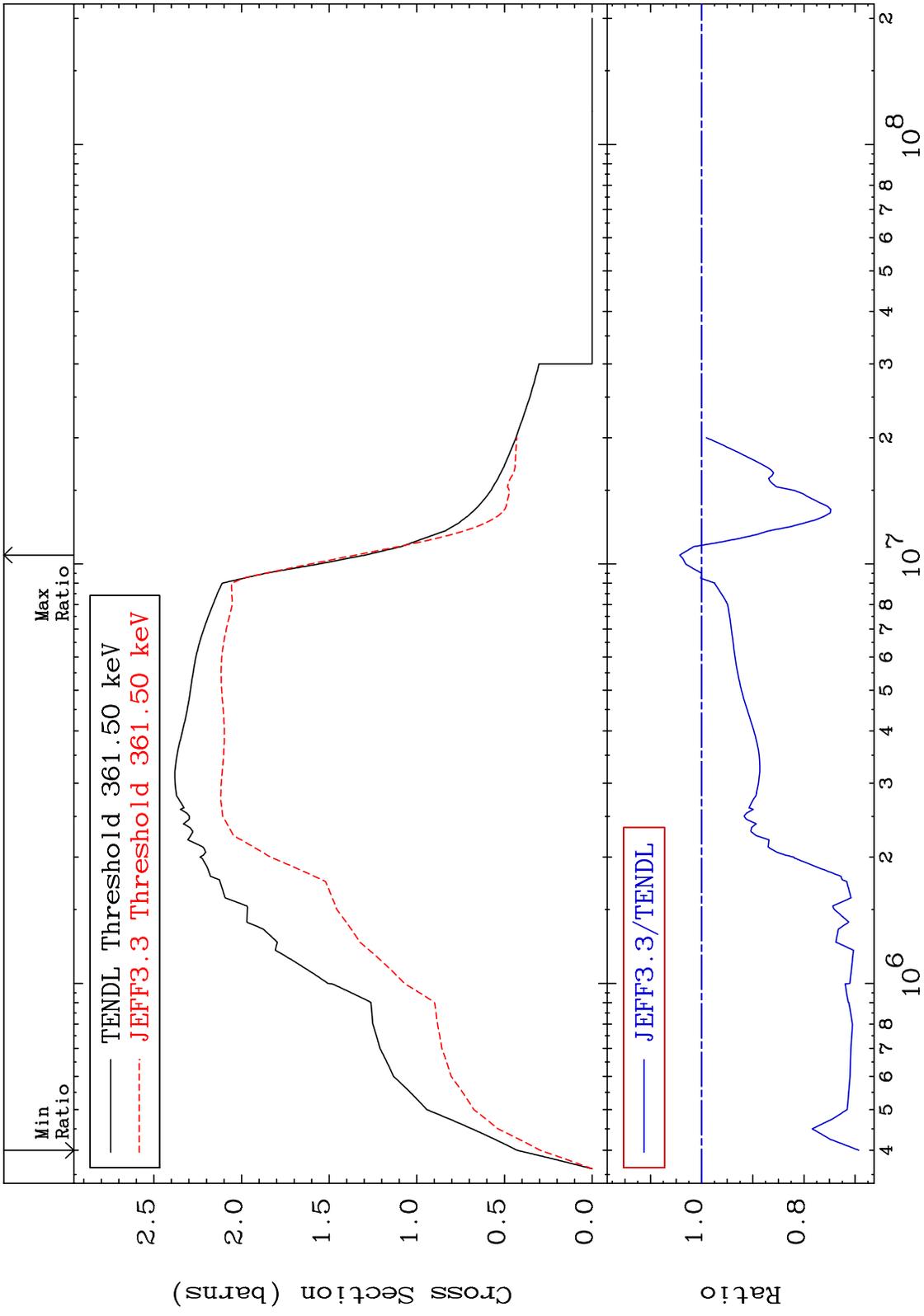
Incident Energy (eV)

44-Ru-104

MAT 4449

Inelastic  
Cross Section

44-Ru-104  
-30.73 To 4.286 %

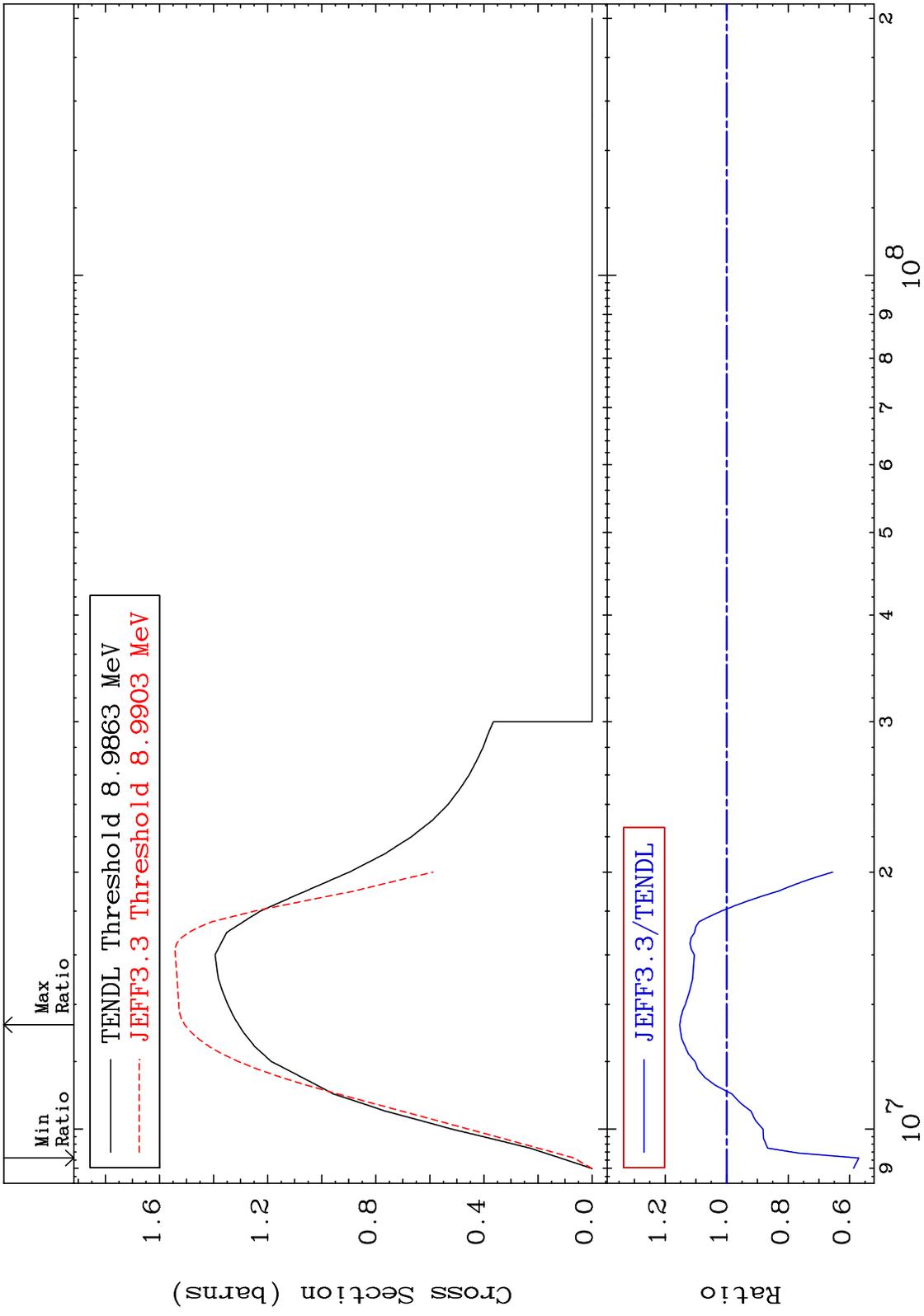


44-Ru-104

Incident Energy (eV)

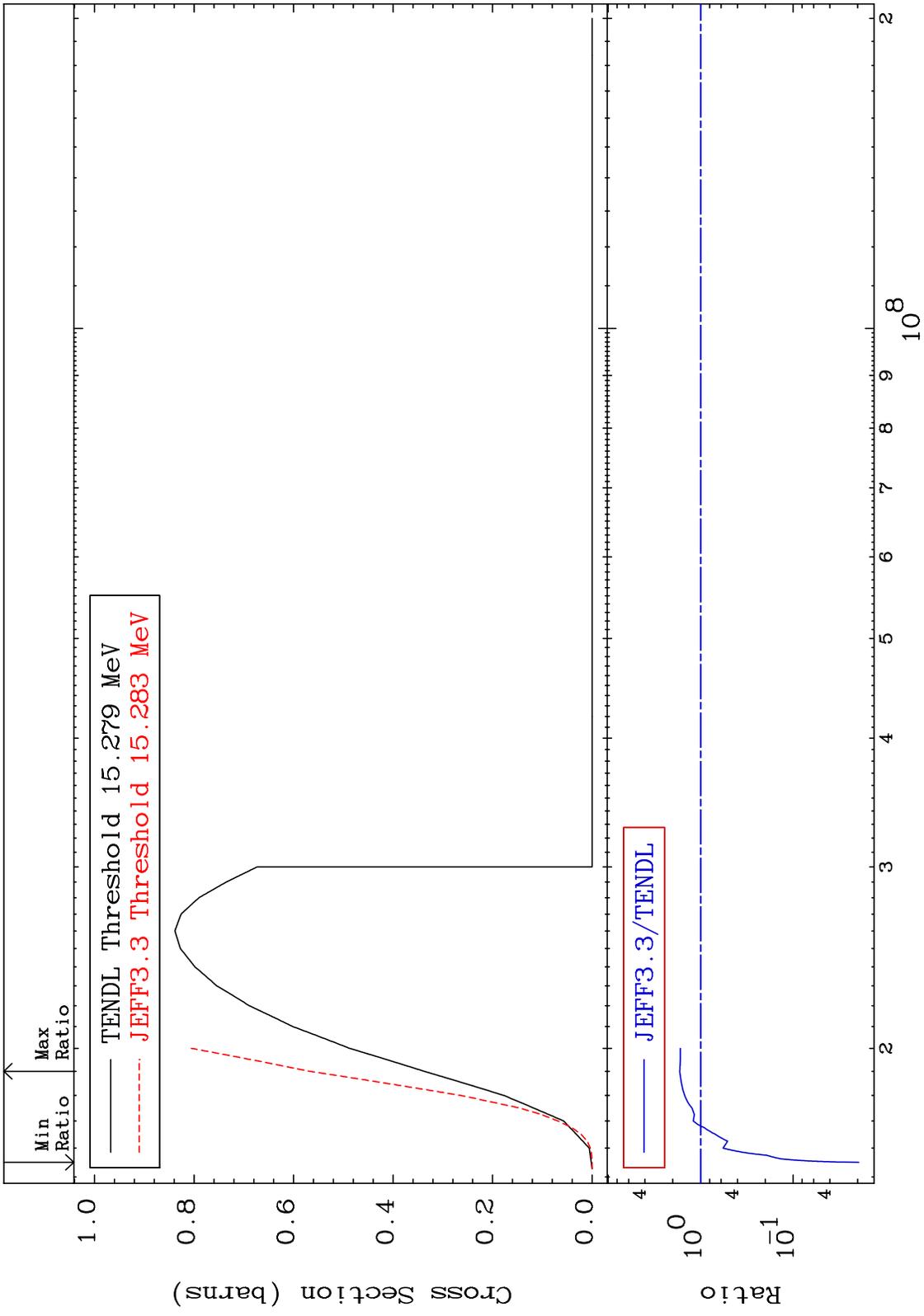
3

MAT 4449 (n,2n) Cross Section 44-Ru-104 -42.97 To 15.26 %



4 44-Ru-104

MAT 4449 (n,3n) Cross Section 44-Ru-104 -98.05 To 68.14 %



MAT 4449

(n, n')  $\alpha$

44-Ru-104

-13.84 To 553.8 %

Cross Section

Max Ratio

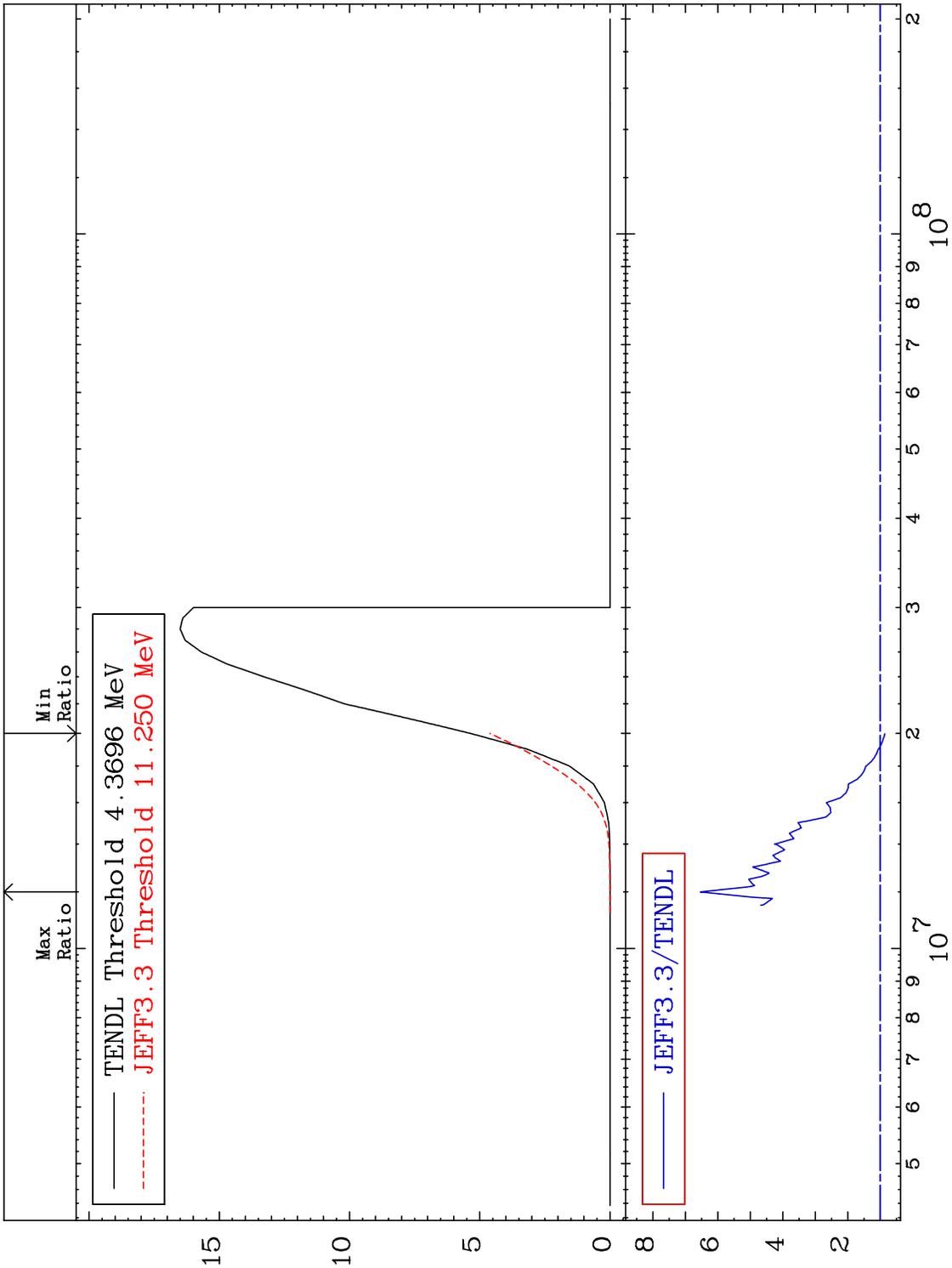
Min Ratio

TENDL Threshold 4.3696 MeV  
JEFF3.3 Threshold 11.250 MeV

Cross Section (milli-barns)

JEFF3.3/TENDL

Ratio



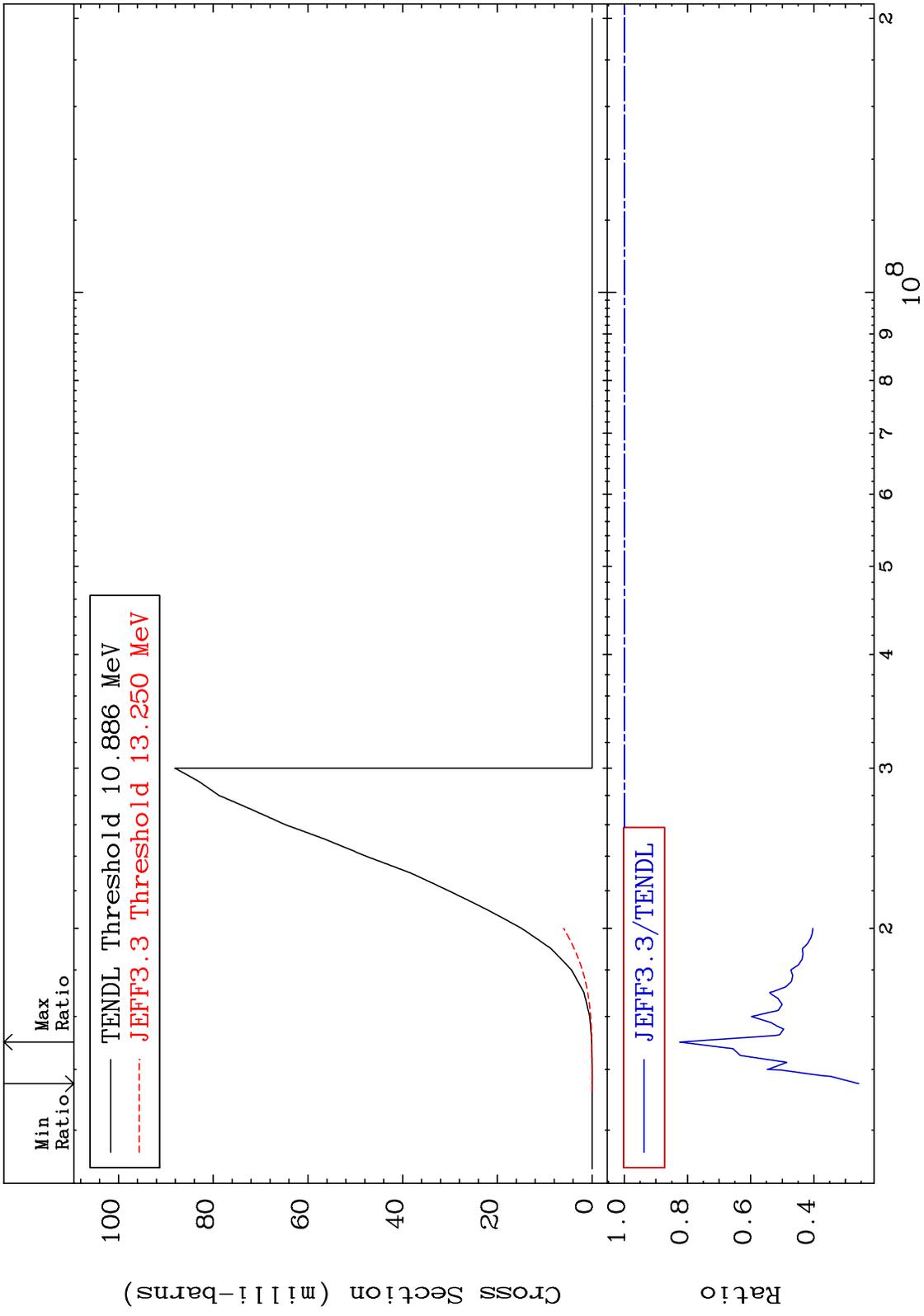
6

Incident Energy (eV)

44-Ru-104

MAT 4449  
(n, n') p  
Cross Section

44-Ru-104  
-74.23 To -17.55%



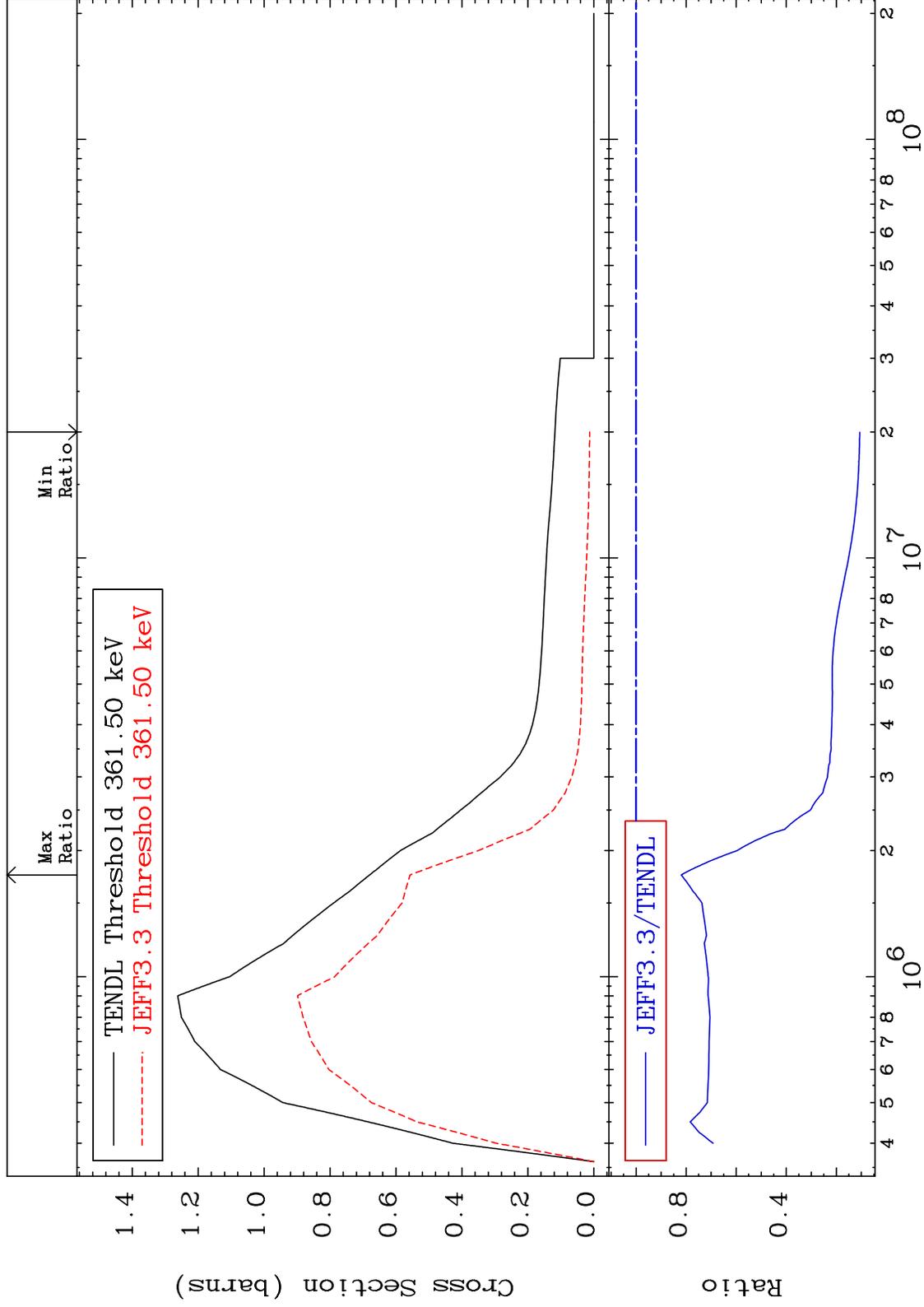
44-Ru-104

Incident Energy (eV)

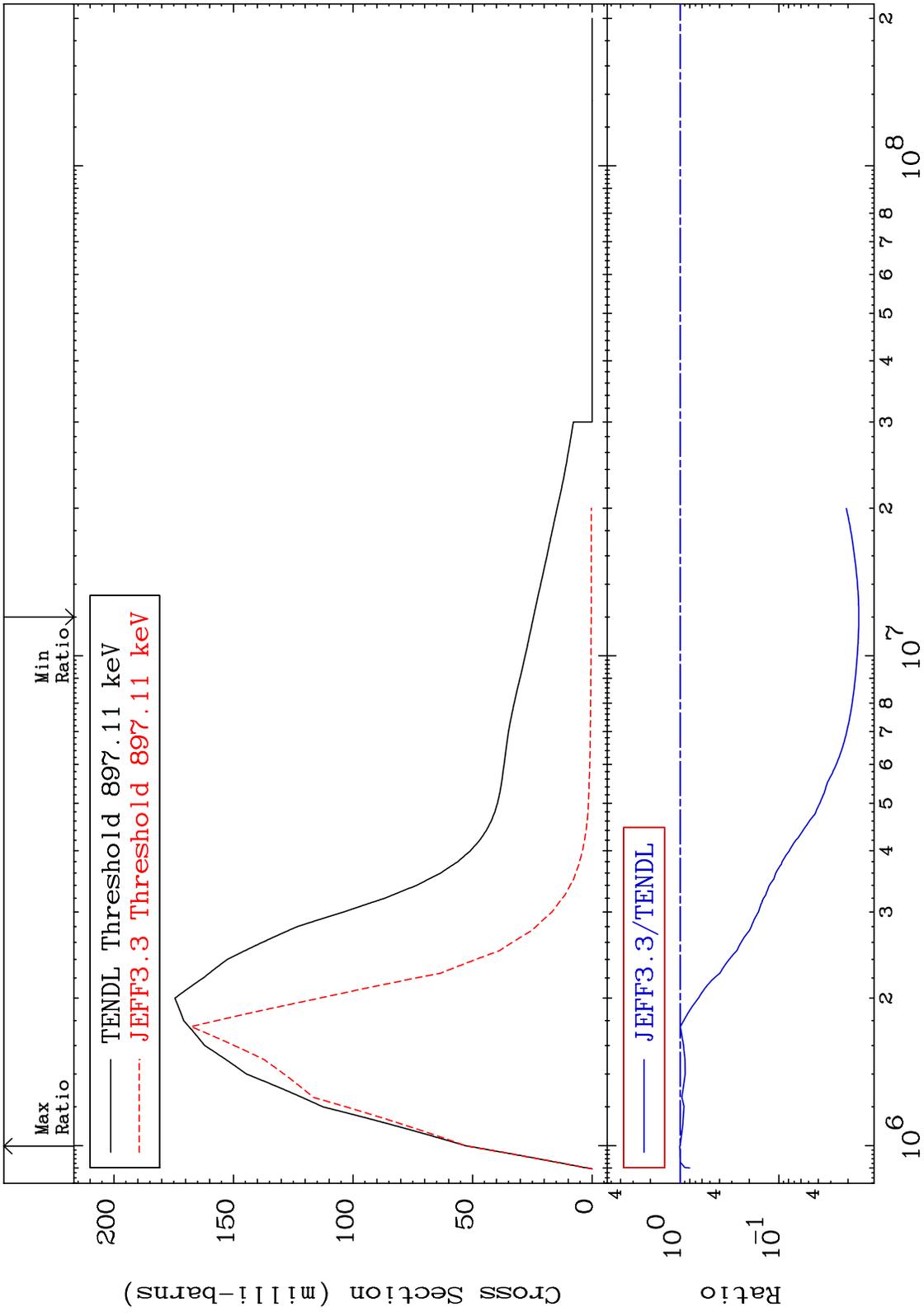
MAT 4449

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

44-Ru-104  
-89.39 To -18.04%

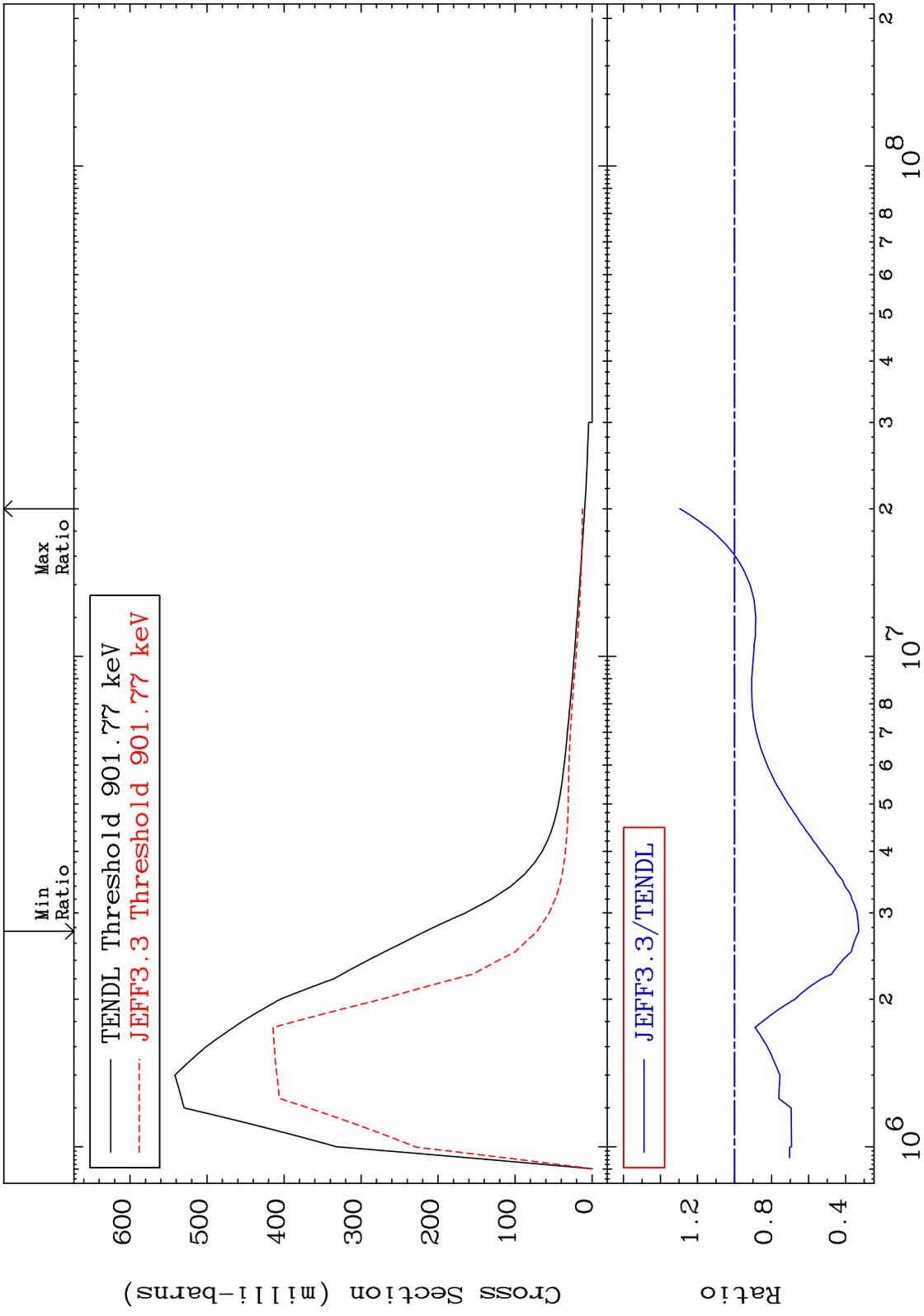


MAT 4449      MT= 52 (n,n') Level      44-Ru-104  
Cross Section      -98.44 To 0.916 %



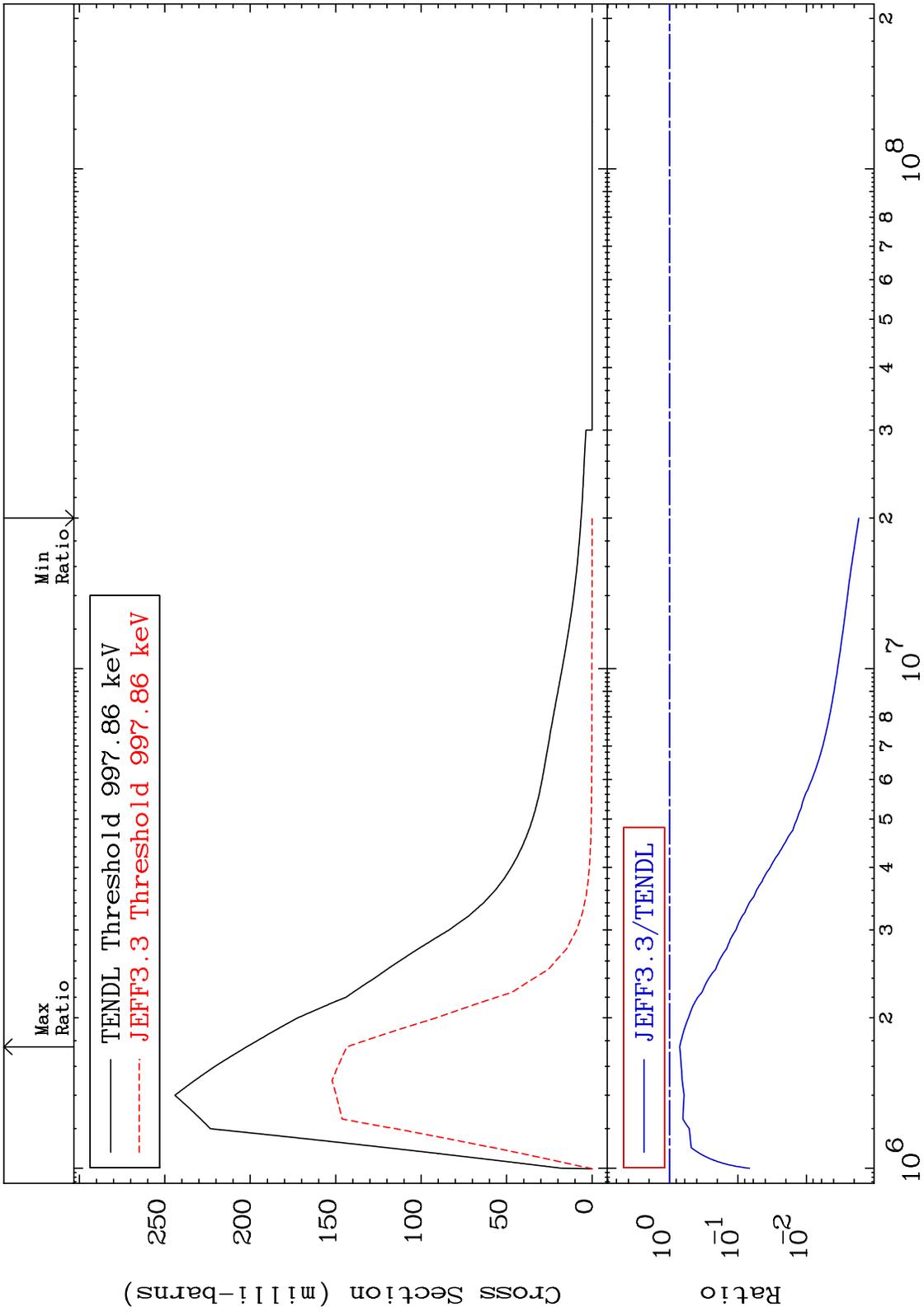
9      10<sup>6</sup>      10<sup>7</sup>      10<sup>8</sup>      2      44-Ru-104

MAT 4449      MT= 53 (n,n') Level      44-Ru-104  
Cross Section      -67.06 To 29.59 %



44-Ru-104

MAT 4449      MT= 54 (n,n') Level      44-Ru-104  
 Cross Section      -99.83 To -28.99%

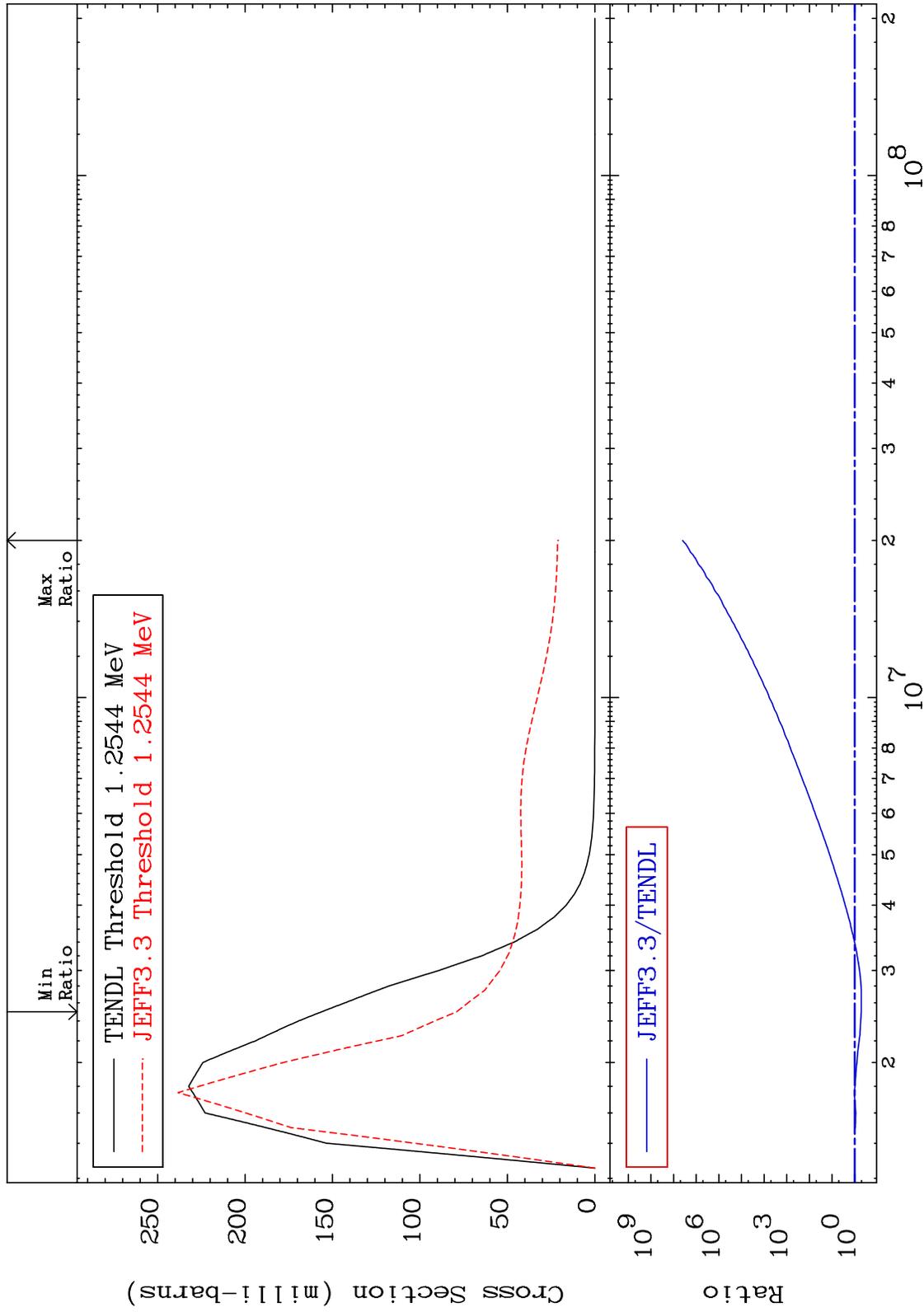


11      Incident Energy (eV)      44-Ru-104

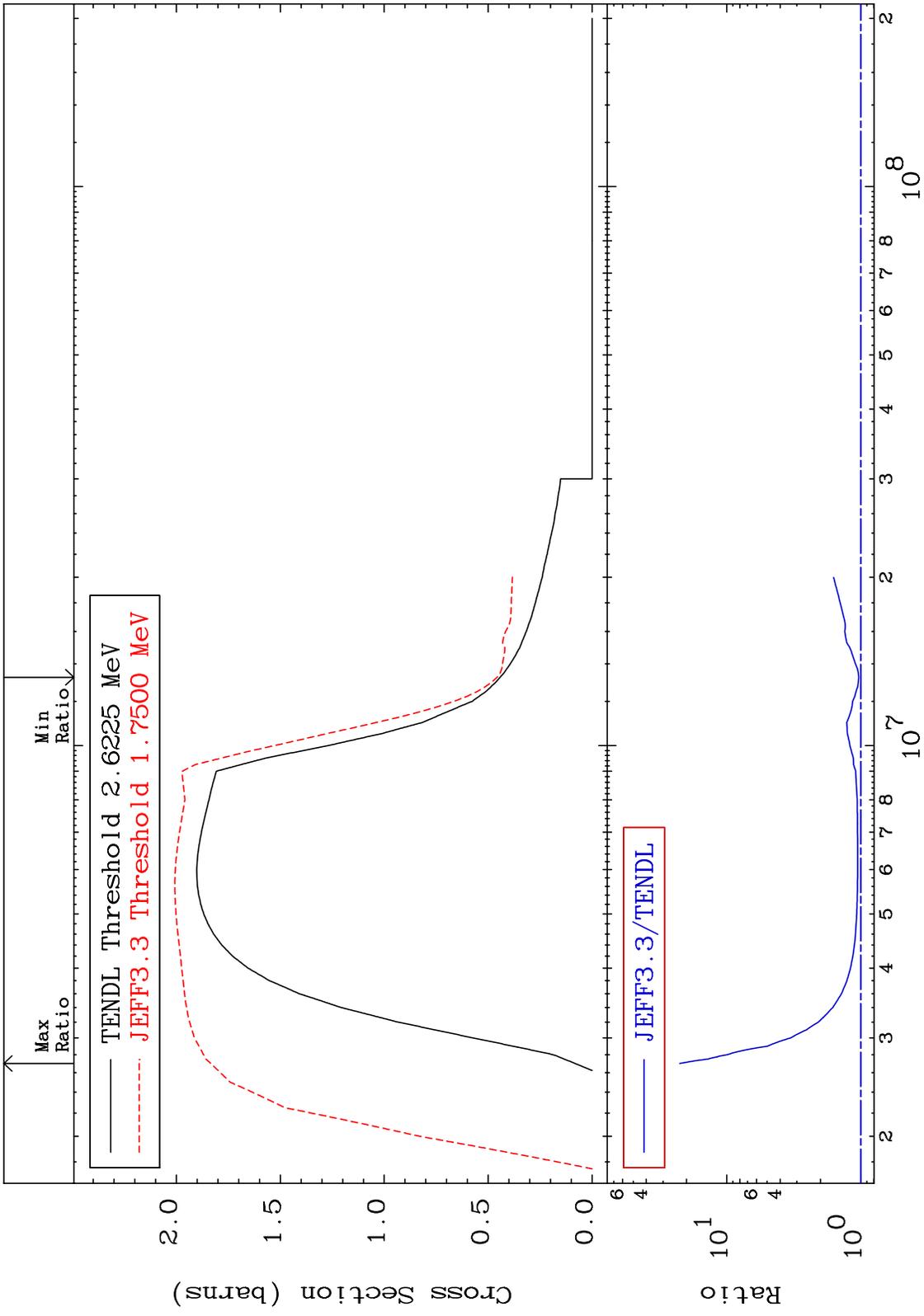
MAT 4449

MT= 55 (n,n') Level  
Cross Section

44-Ru-104  
-49.43 To 9999. %



MAT 4449 (n, n') Continuum Cross Section 44-Ru-104 3.336 To 2147. %



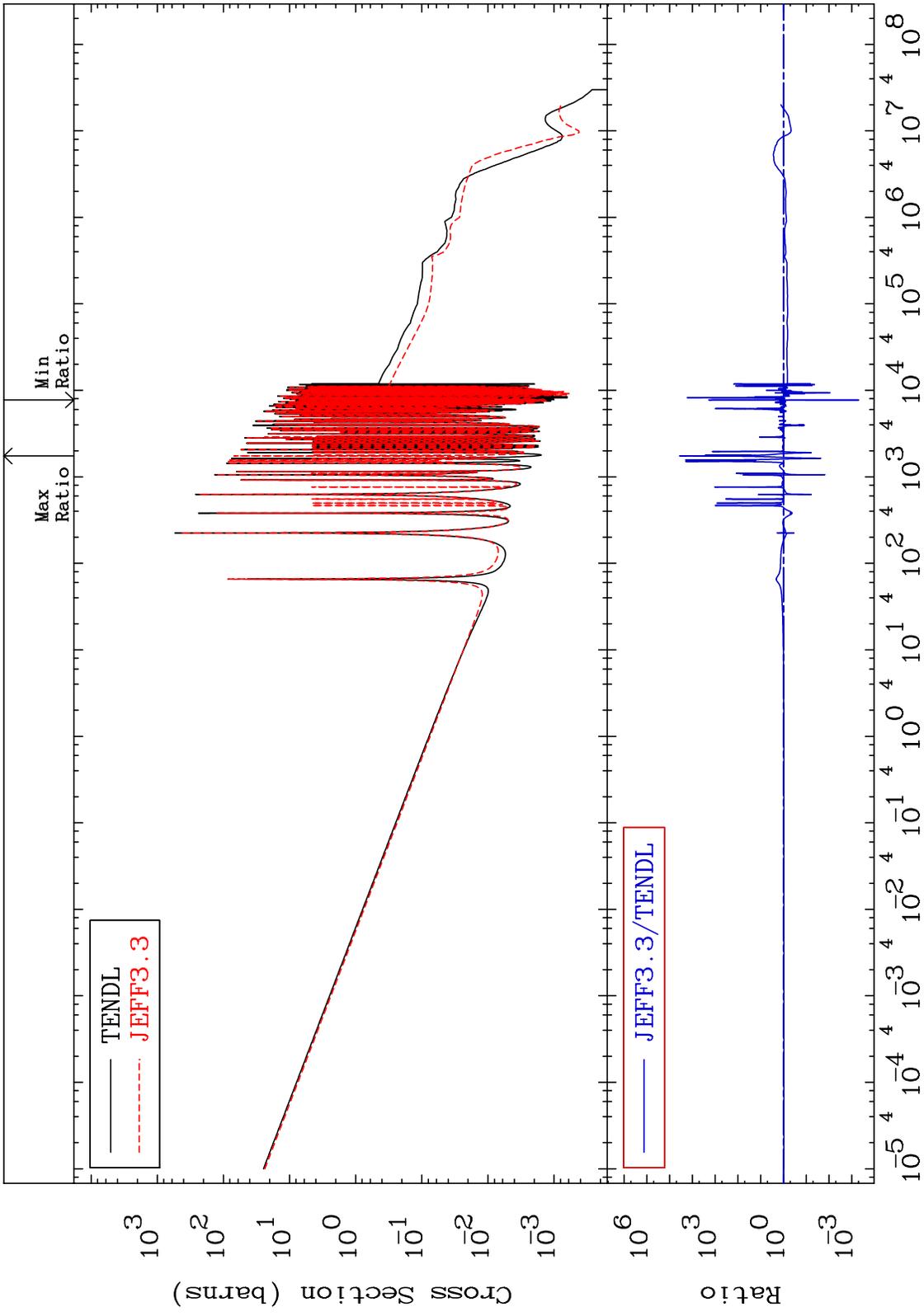
MAT 4449

(n,  $\gamma$ )

44-Ru-104

Cross Section

-99.95 To 9999. %

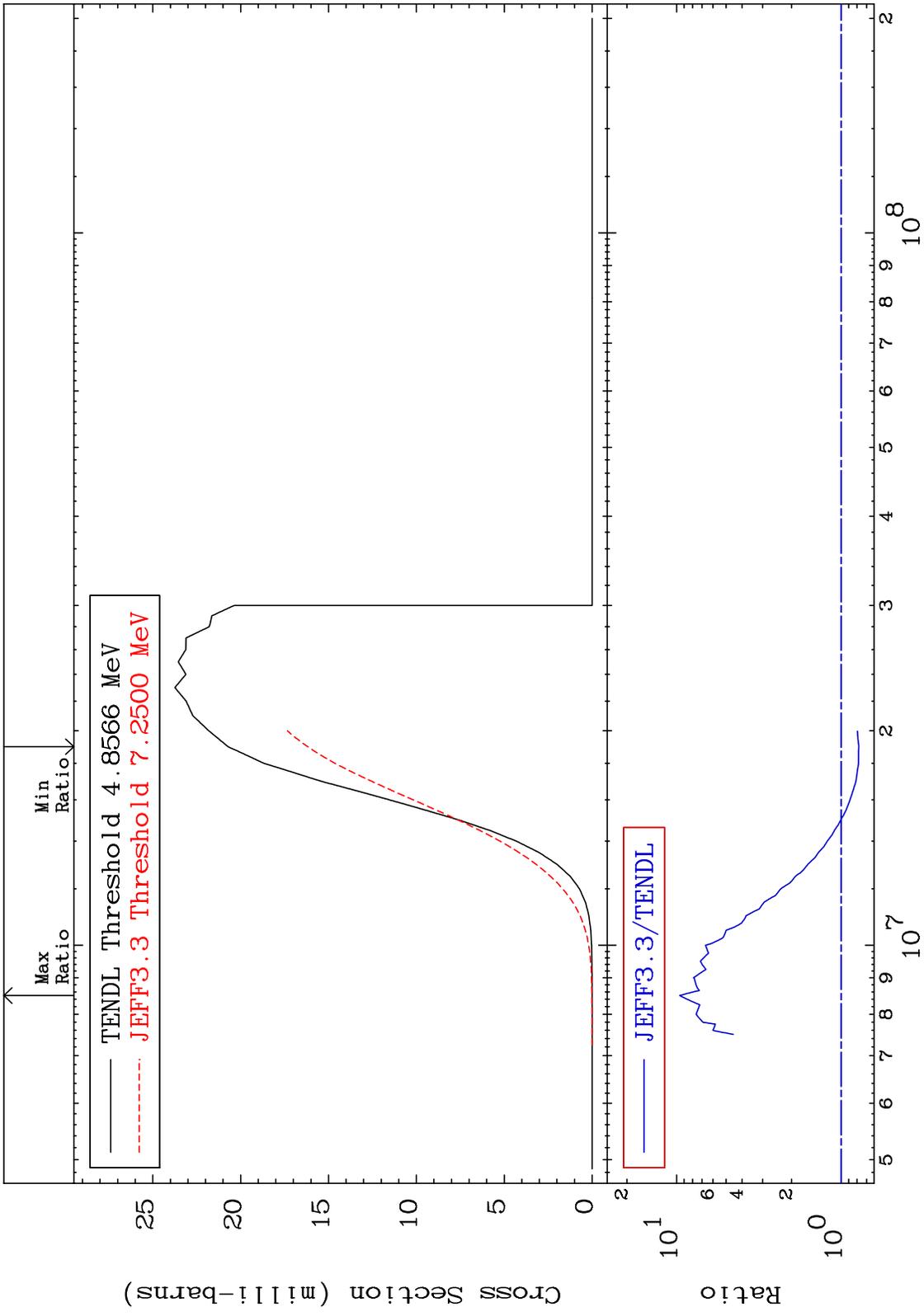


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Incident Energy (eV)

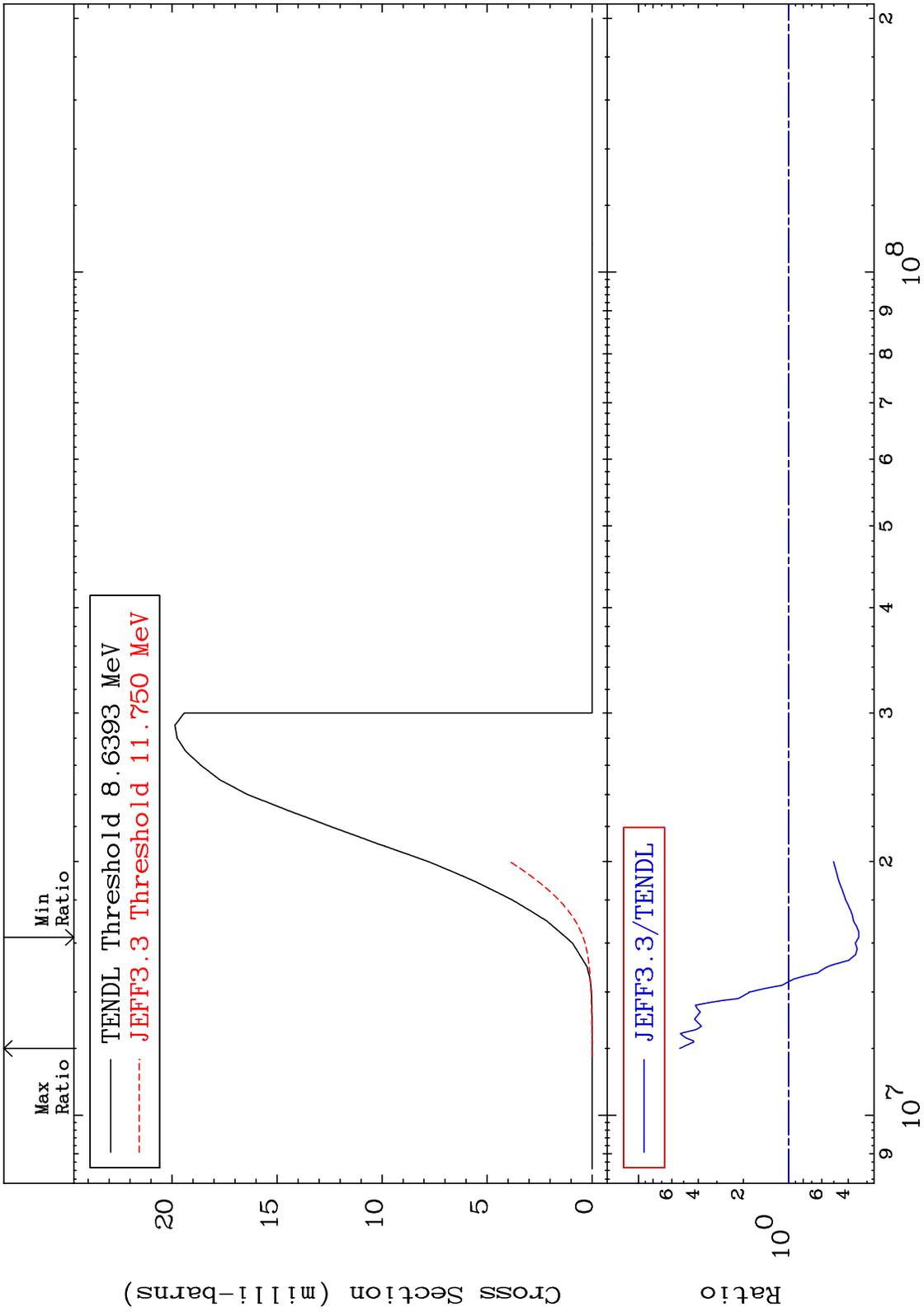
44-Ru-104

MAT 4449 (n,p) Cross Section 44-Ru-104 -21.90 To 856.2 %



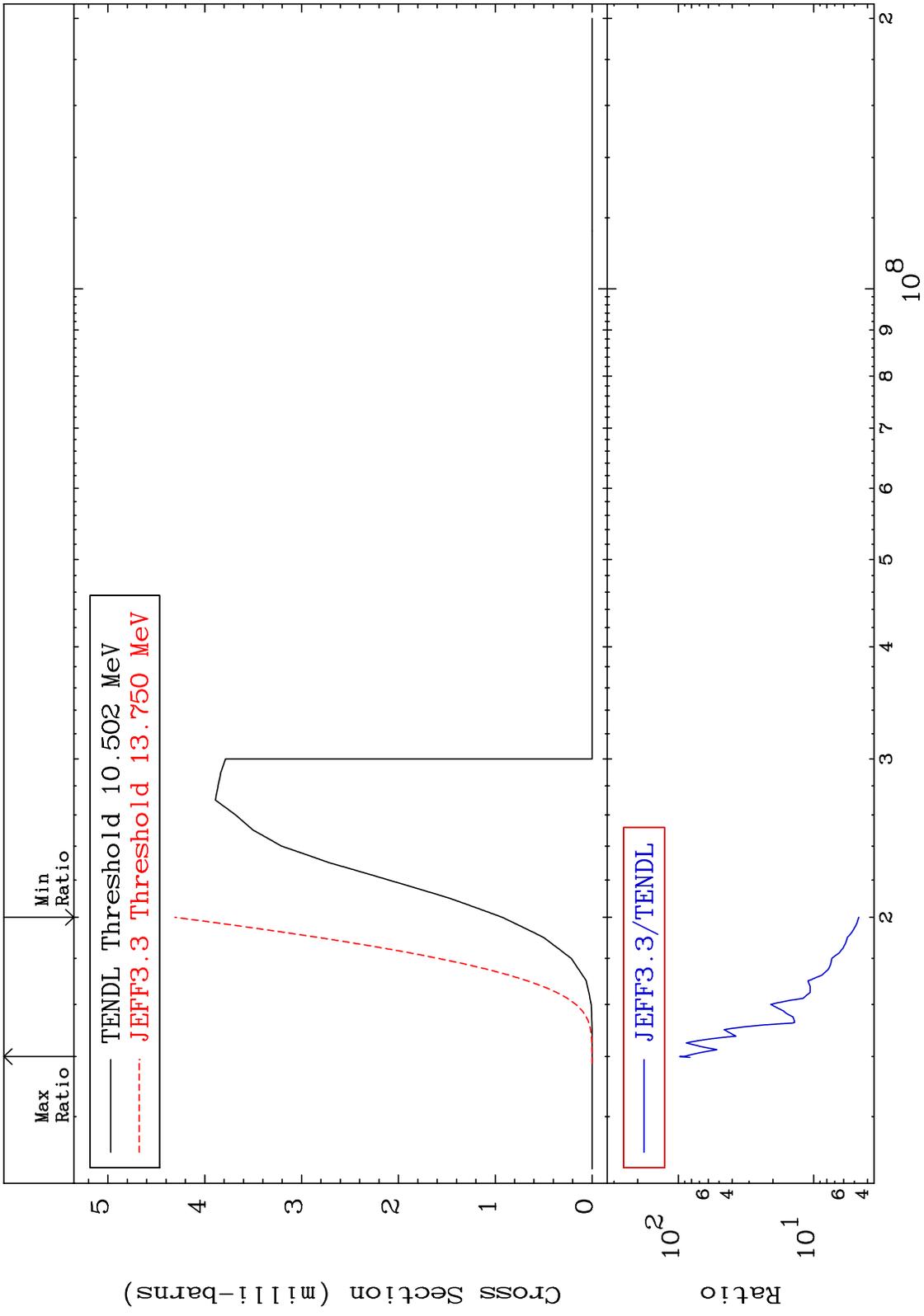
44-Ru-104 Incident Energy (eV) 44-Ru-104

MAT 4449 (n,d) Cross Section 44-Ru-104  
 -65.98 To 431.2 %



16 44-Ru-104

MAT 4449 (n,t) Cross Section 44-Ru-104 364.2 To 9680. %



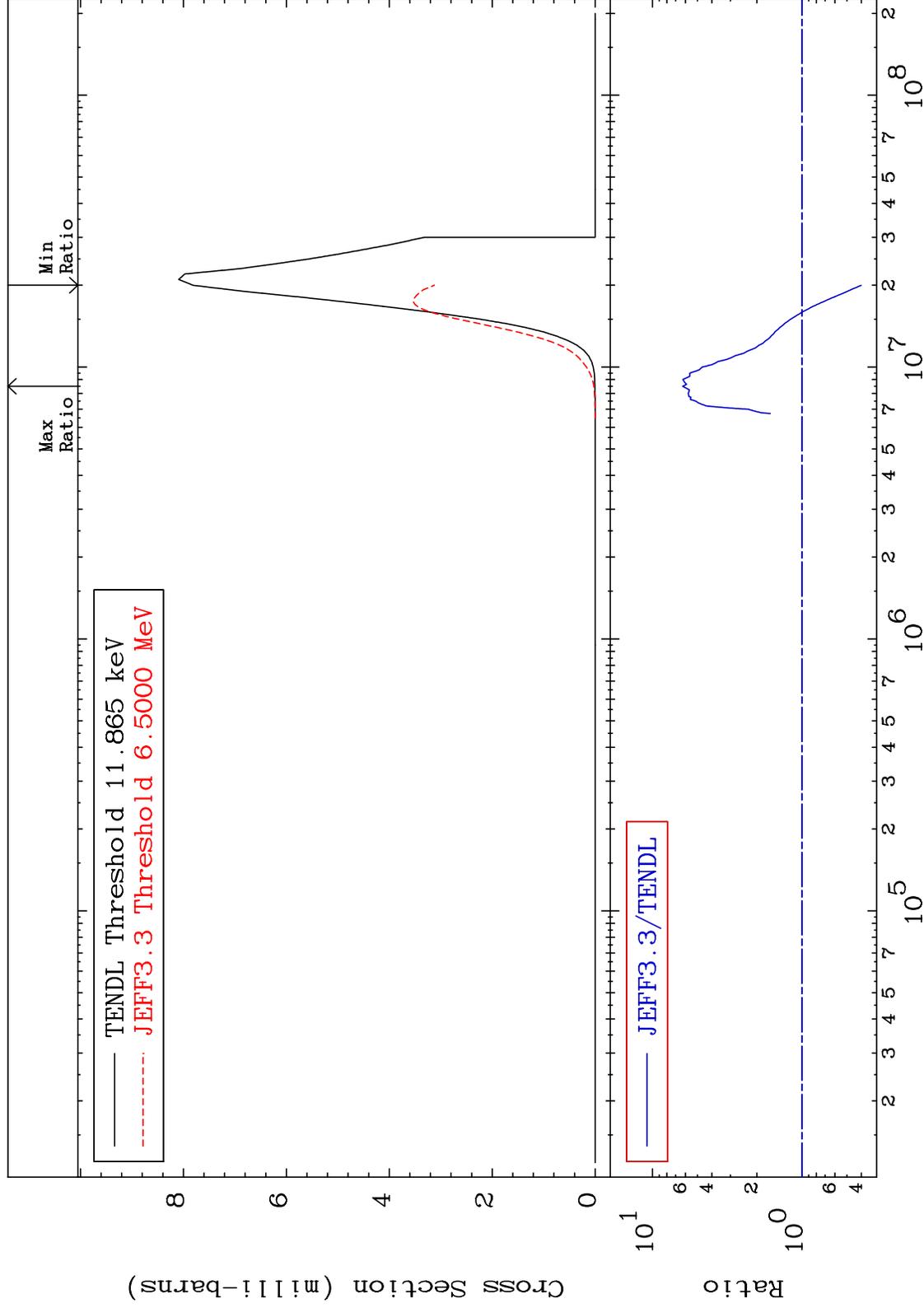
MAT 4449

(n,  $\alpha$ )

44-Ru-104

Cross Section

-60.04 To 527.0 %

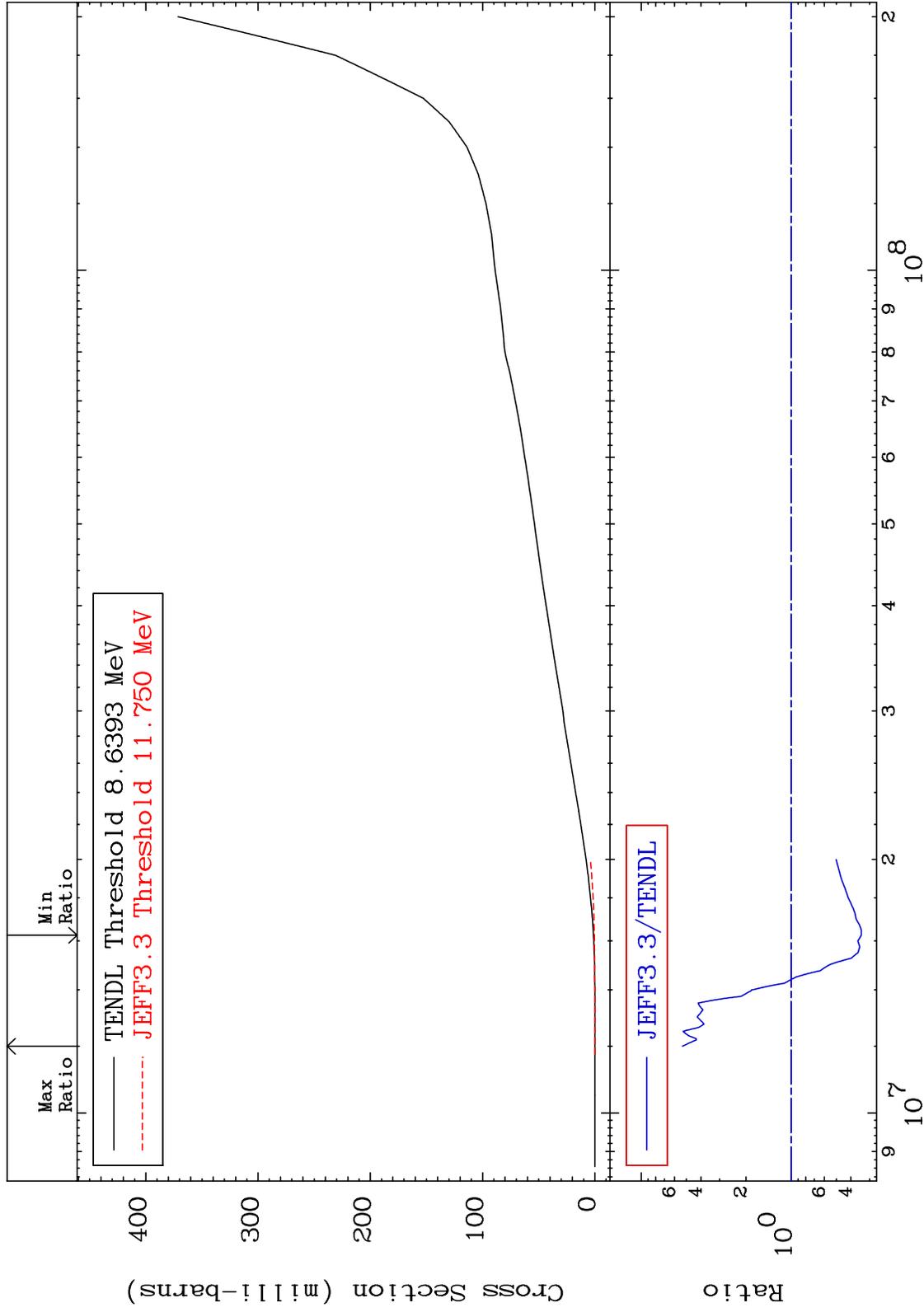




MAT 4449

Deuterium Production  
Cross Section

44-Ru-104  
-65.98 To 431.2 %

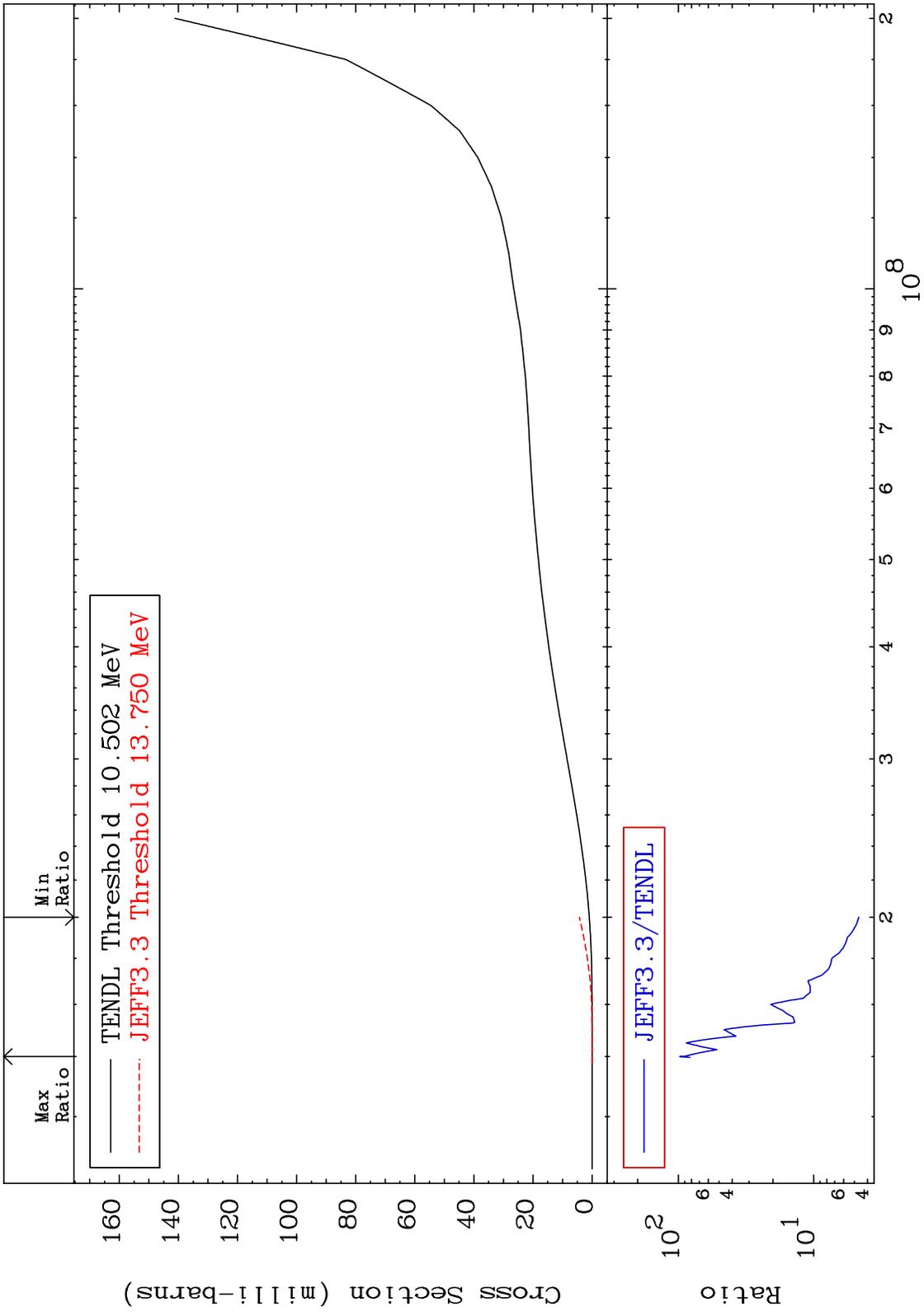


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Incident Energy (eV)

44-Ru-104

MAT 4449 Tritium Production Cross Section 44-Ru-104 364.2 To 9680. %

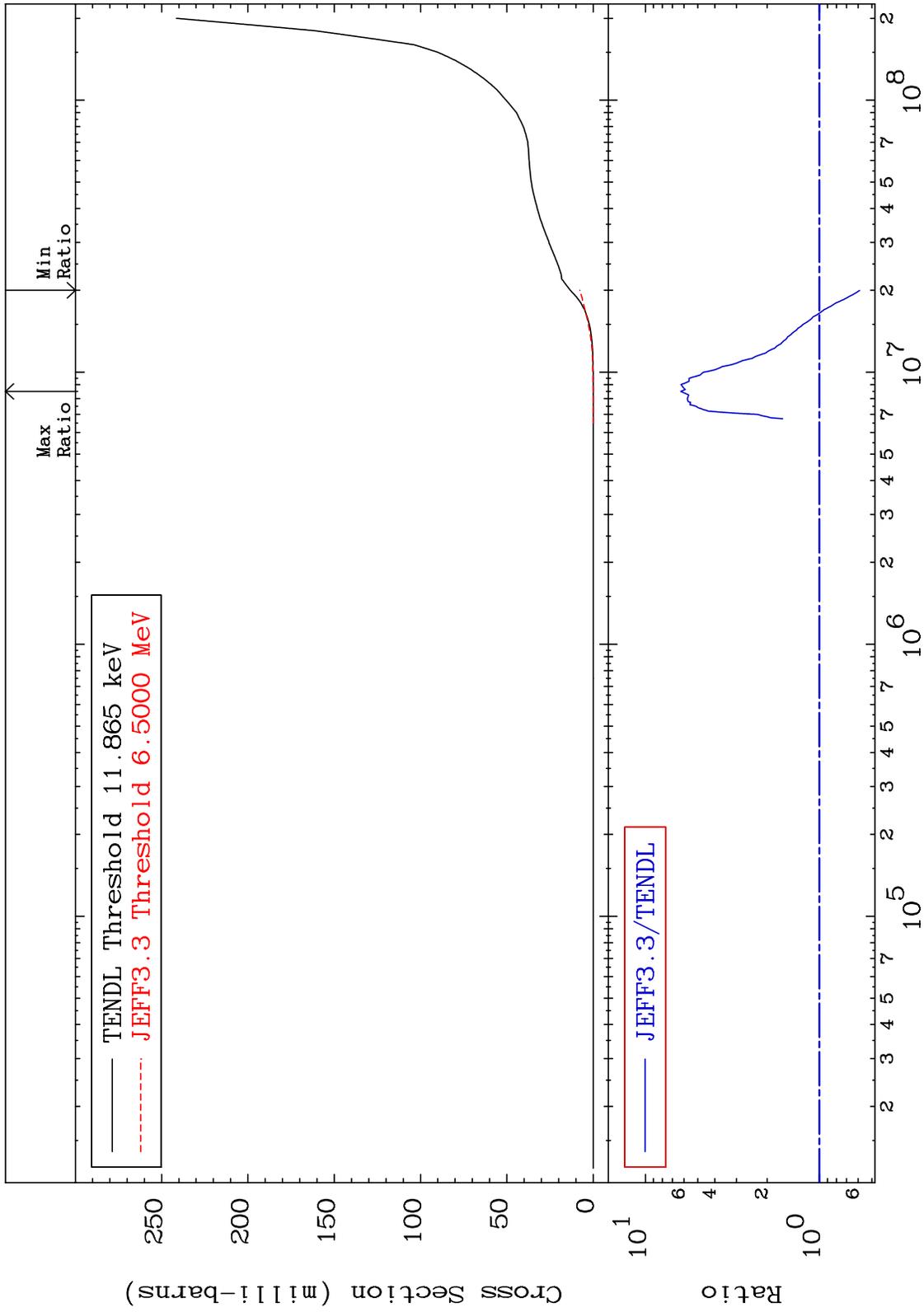


44-Ru-104 Incident Energy (eV)

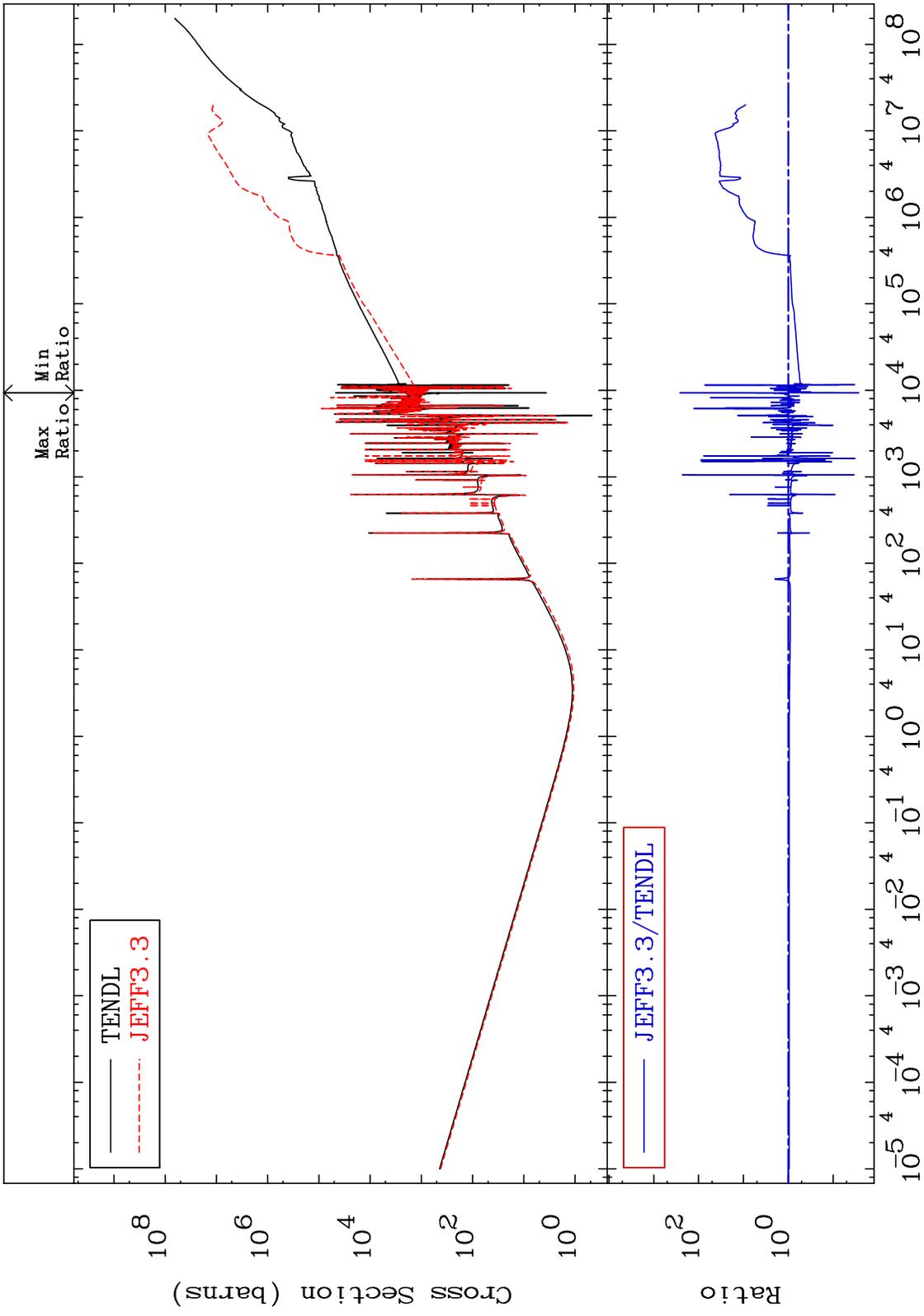
MAT 4449

He-4 Production  
Cross Section

44-Ru-104  
-41.26 To 527.0 %



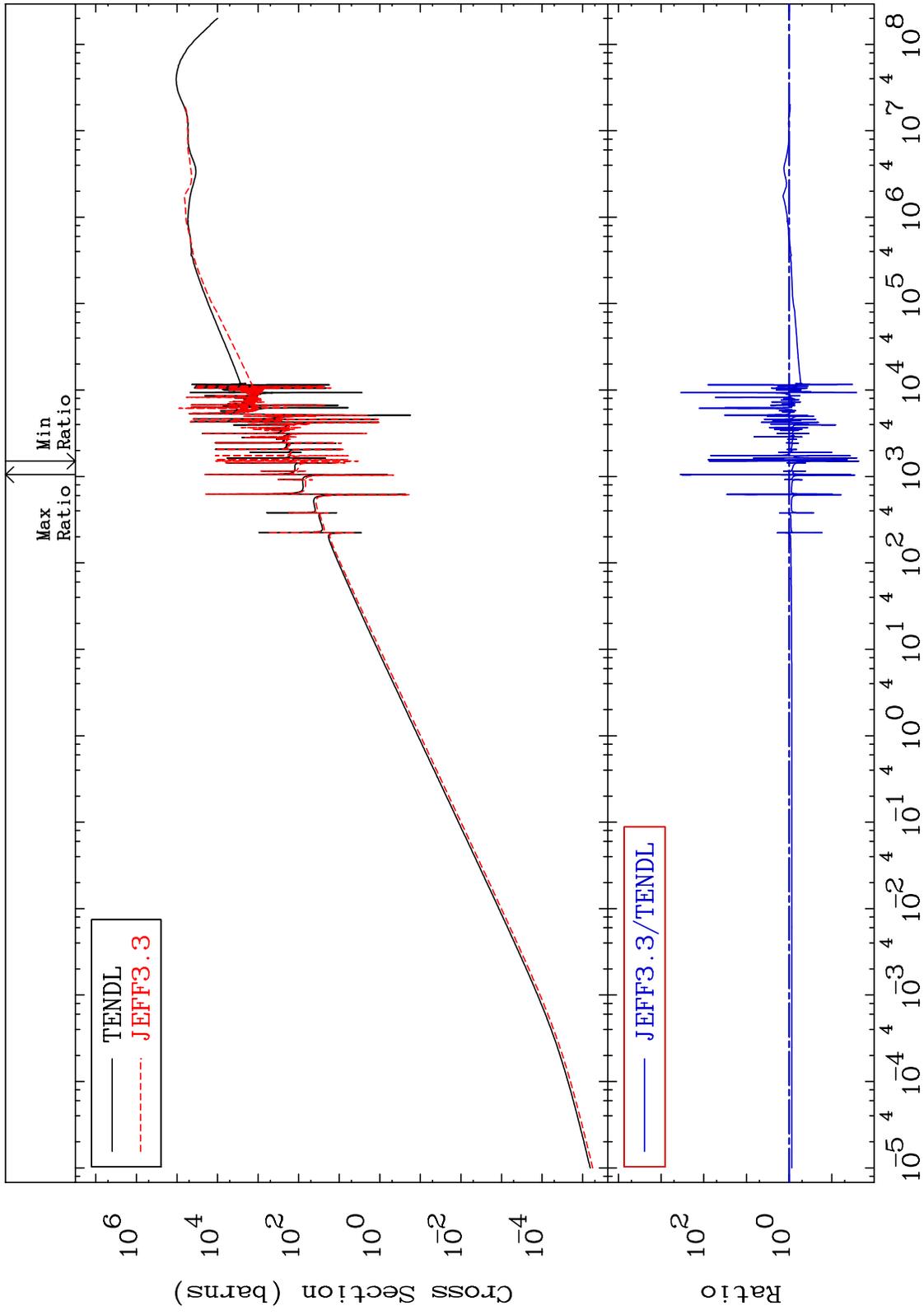
MAT 4449      Kerma total (eV-barns)  
 Cross Section      44-Ru-104  
 -97.34 To 9999. %



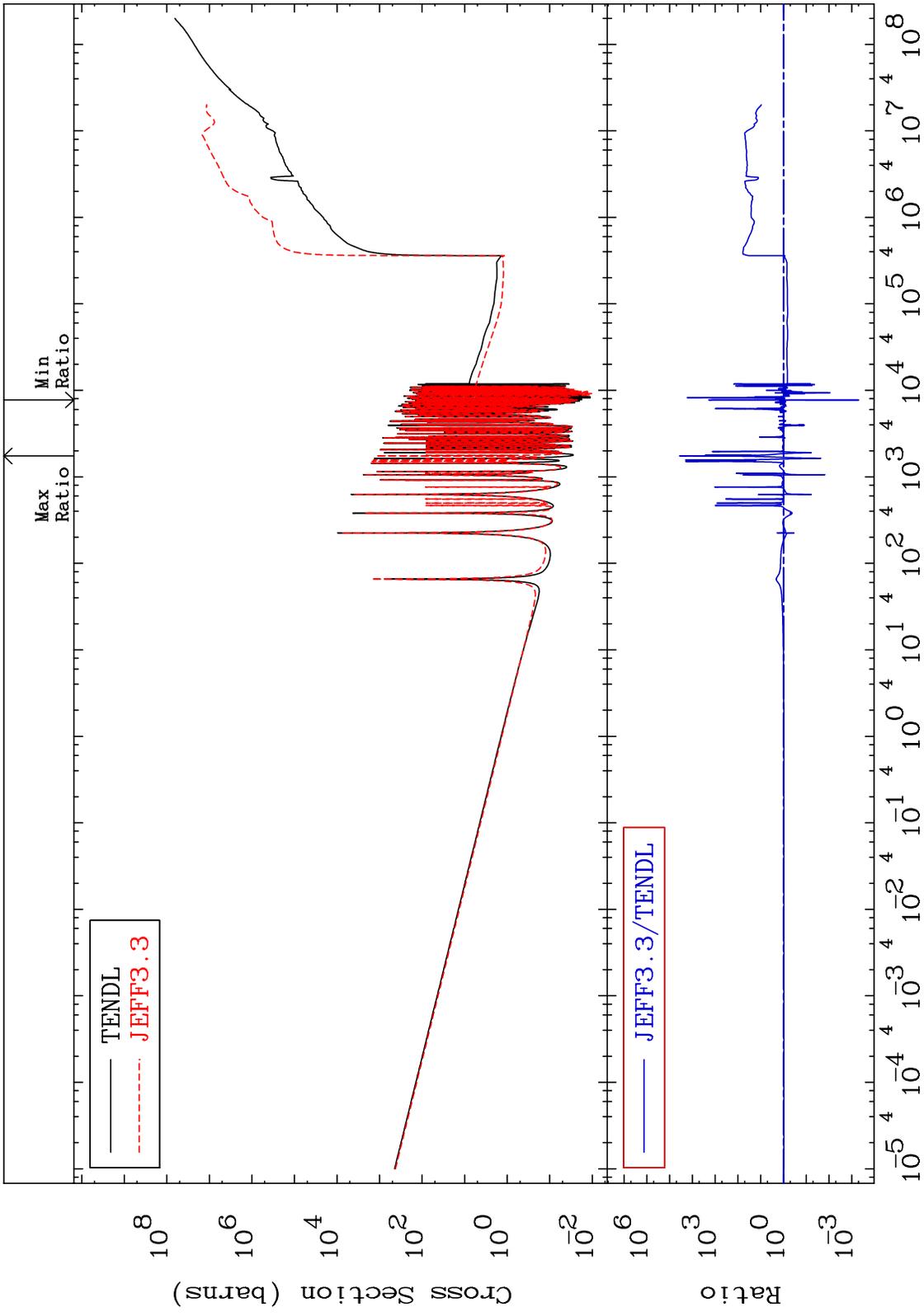
MAT 4449

Kerma elastic  
Cross Section

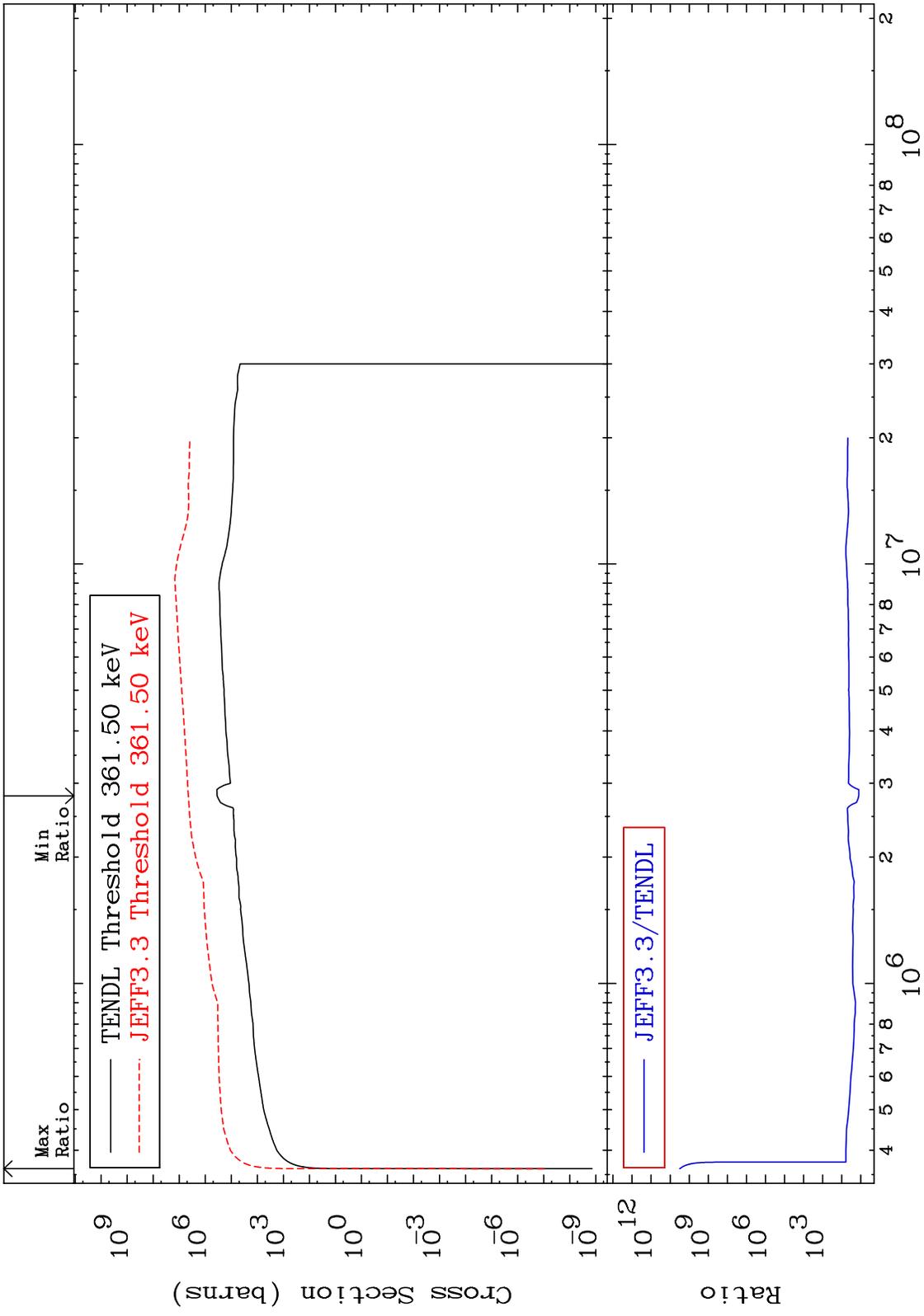
44-Ru-104  
-97.68 To 9999. %



MAT 4449      Kerma non-elastic (all but mt2)      44-Ru-104  
 Cross Section      -99.95 To 9999. %



MAT 4449 Kerma inelastic (mt51-91) 44-Ru-104  
 Cross Section 1168. To 9999. %

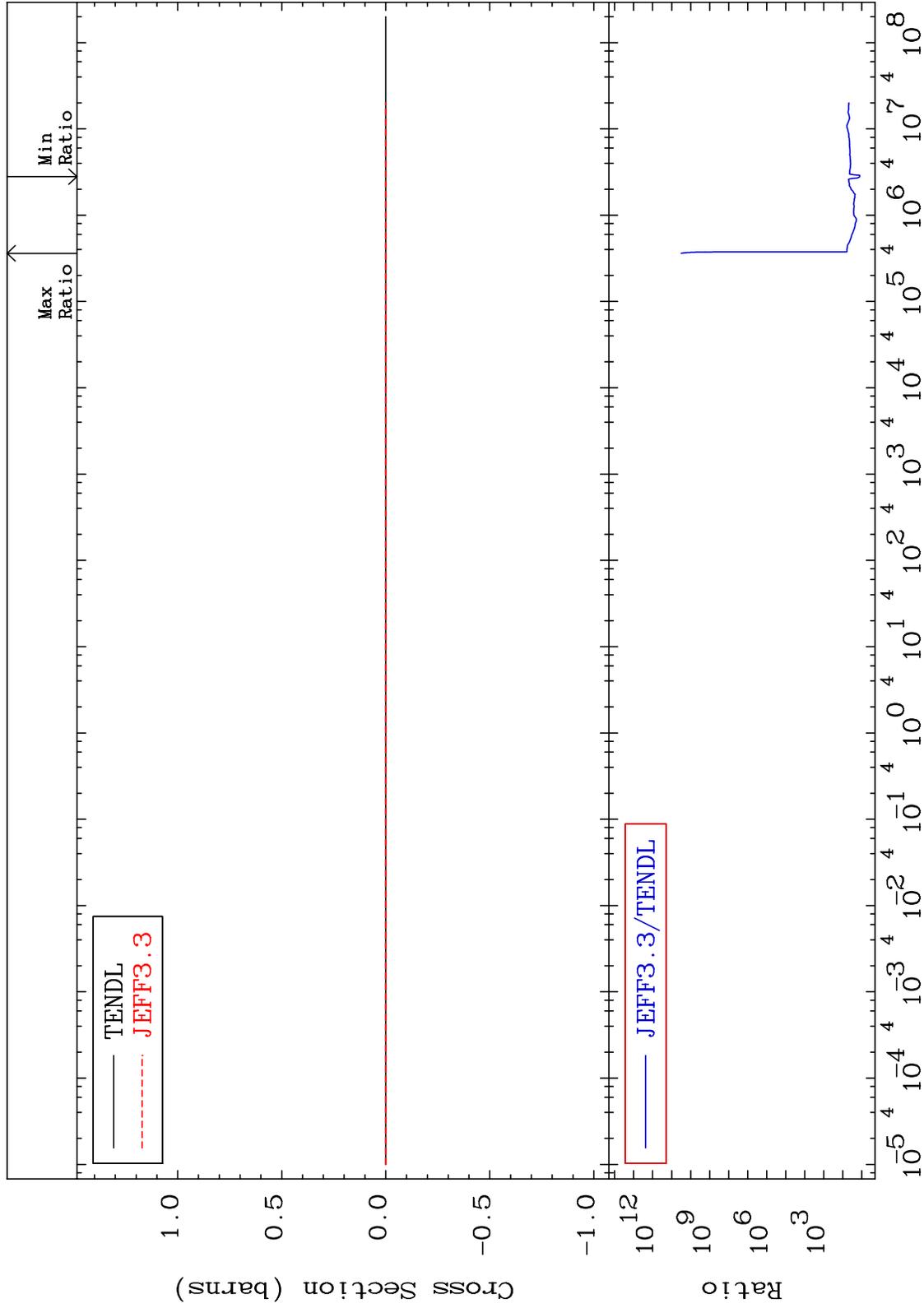


26 44-Ru-104

MAT 4449

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

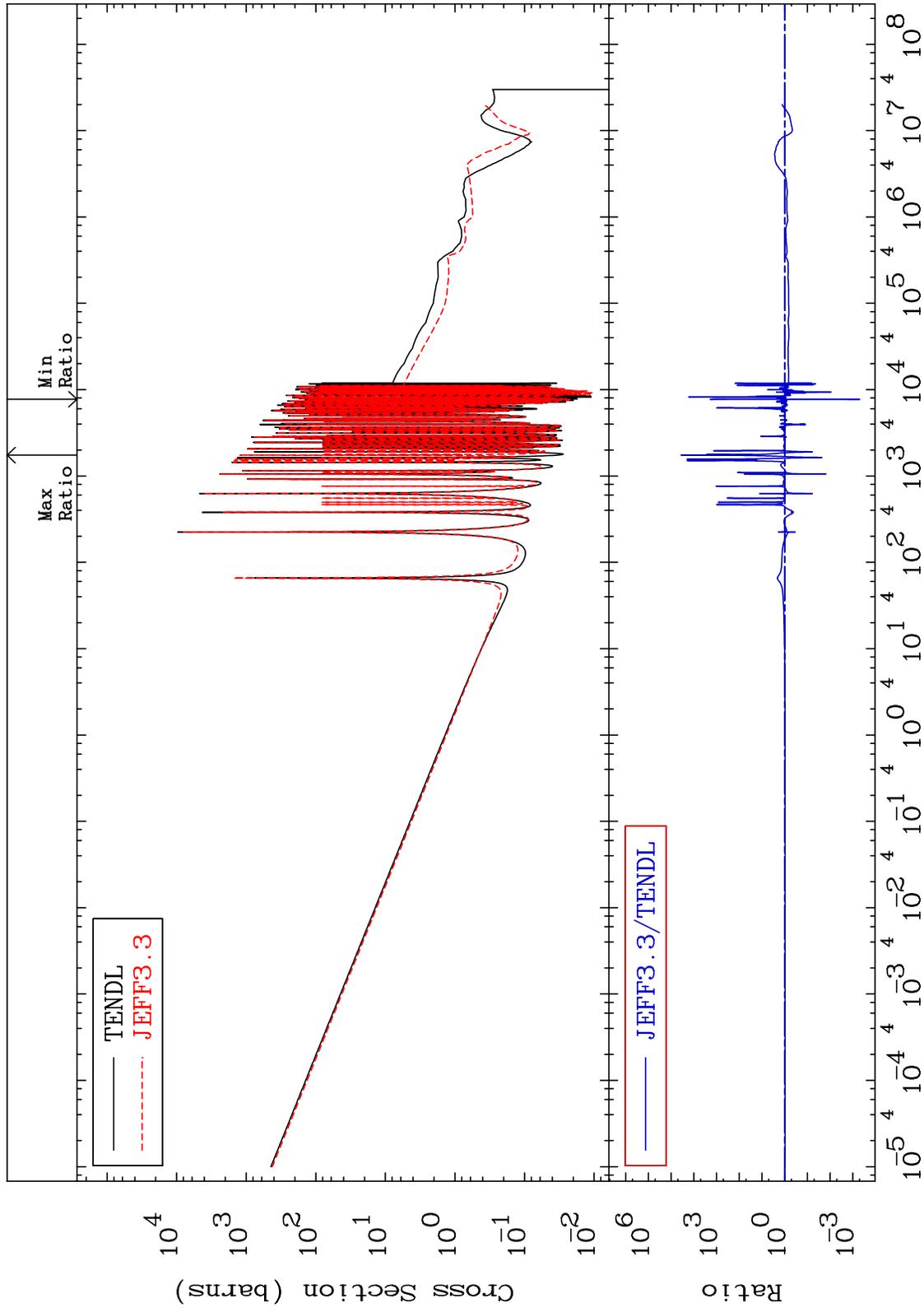
44-Ru-104  
1168. To 9999. %



MAT 4449

Kerma capture (mt102)  
Cross Section

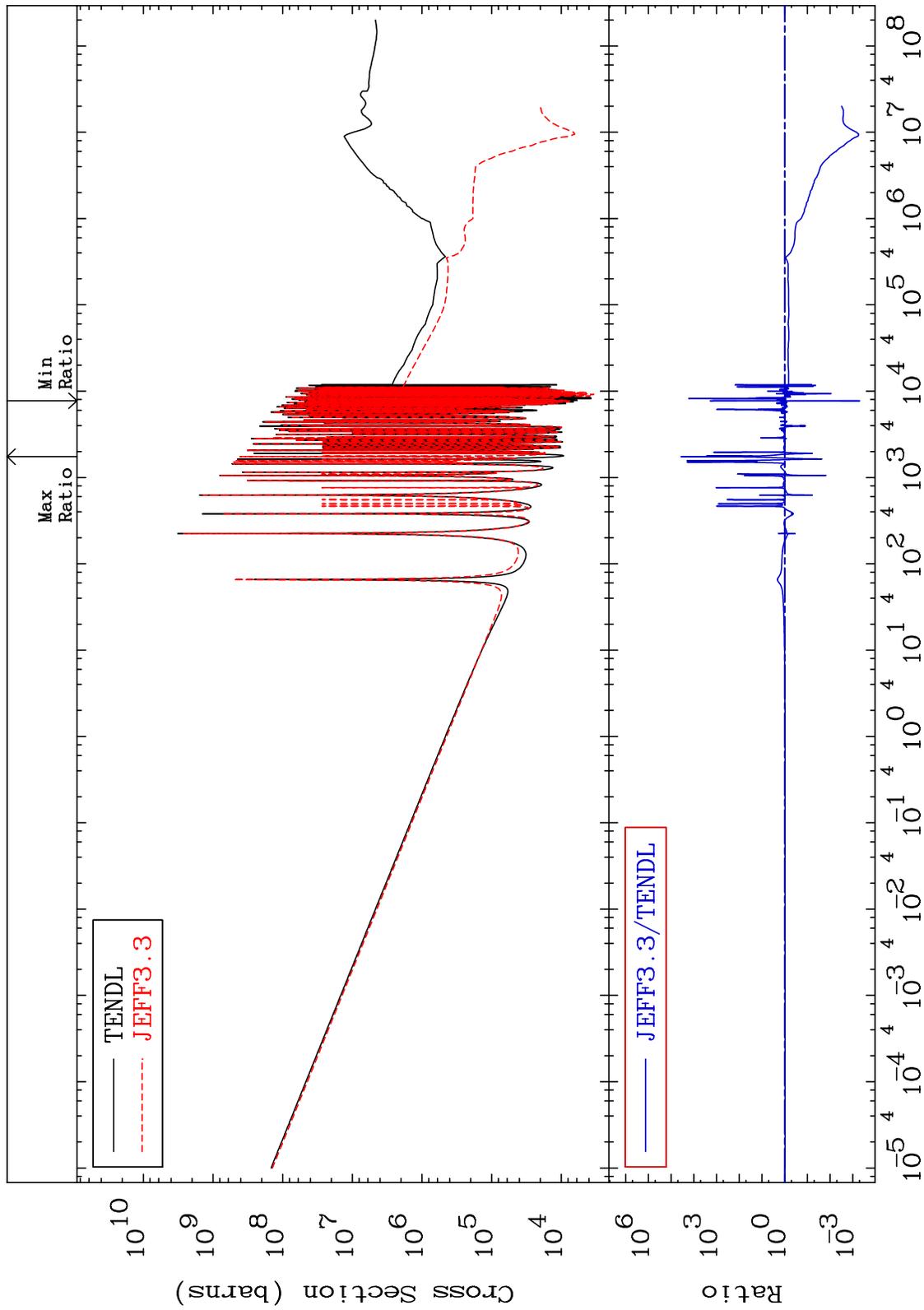
44-Ru-104  
-99.95 To 9999. %



MAT 4449

Total photon (eV-barns)  
Cross Section

44-Ru-104  
-99.95 To 9999. %

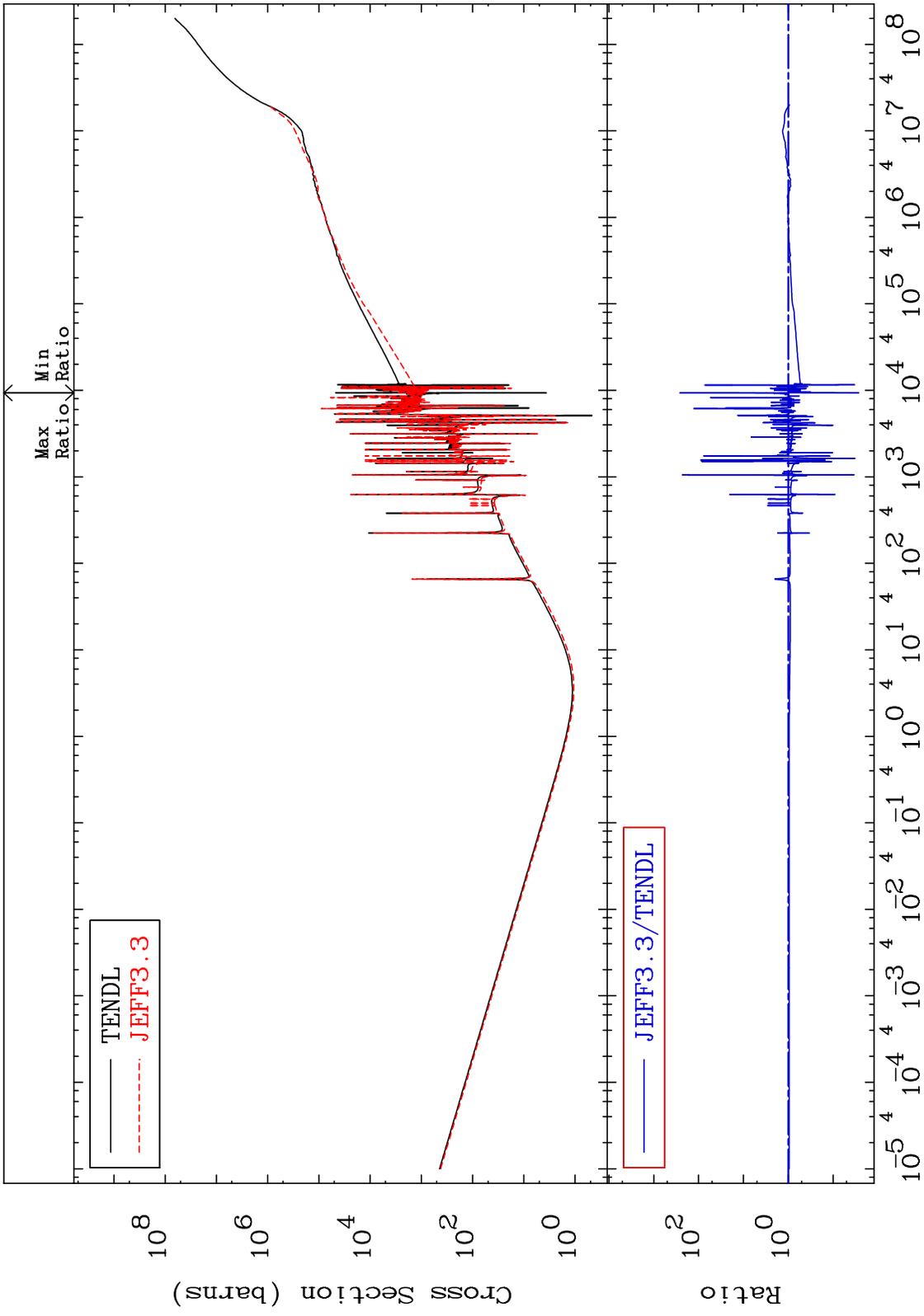


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Incident Energy (eV)

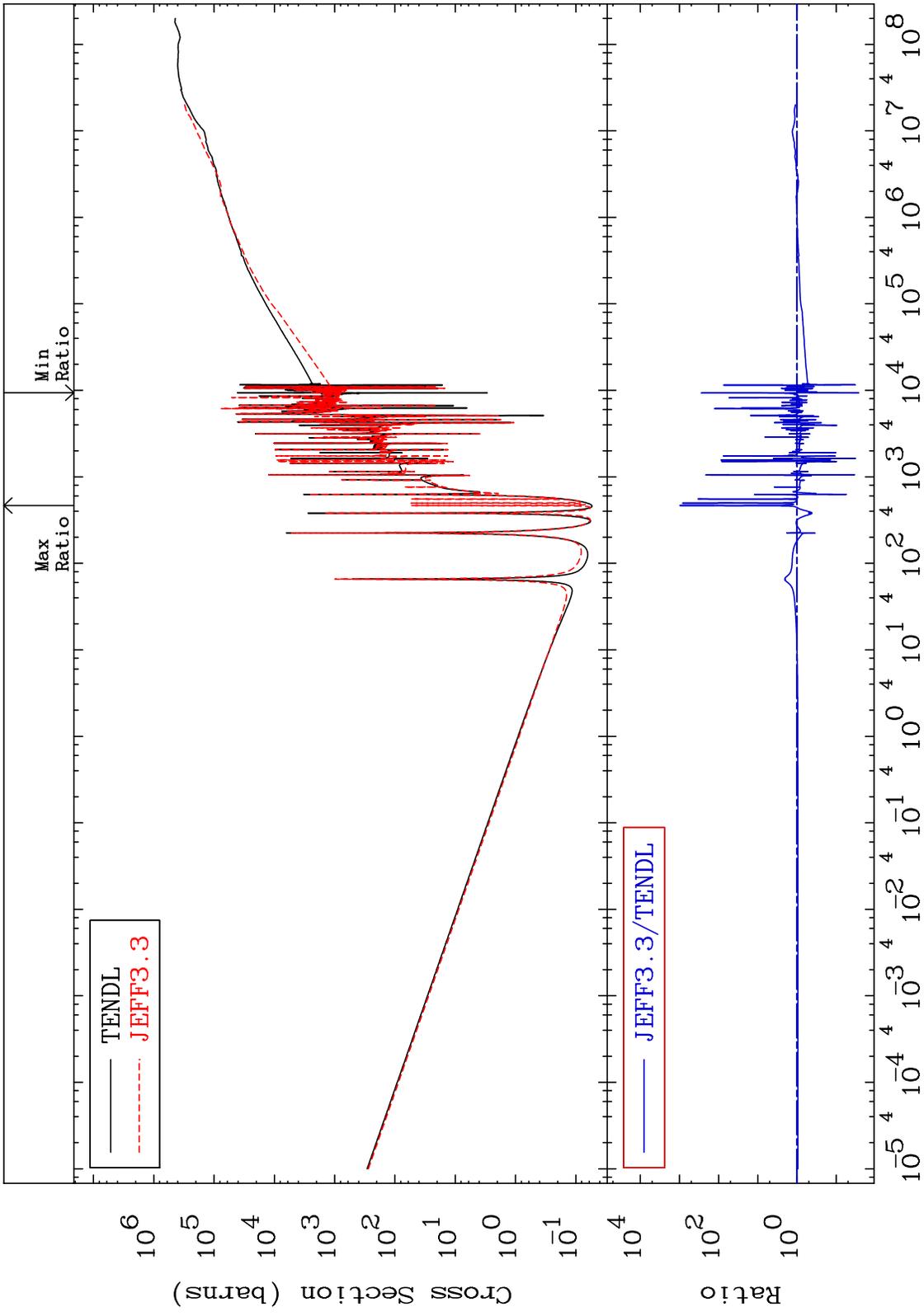
44-Ru-104

MAT 4449 Total kinematic kerma (high limit) 44-Ru-104  
 Cross Section -97.34 To 9999. %

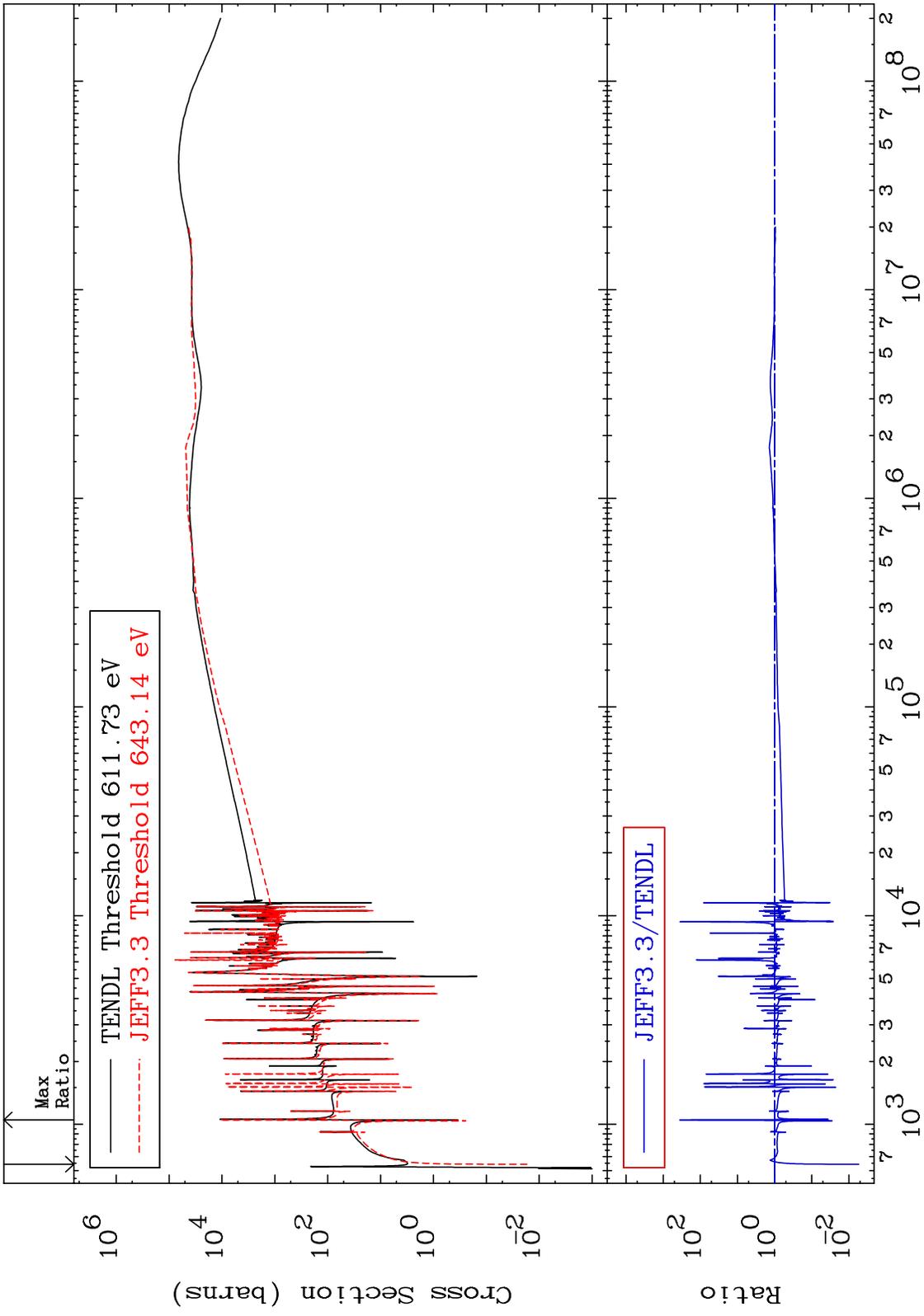


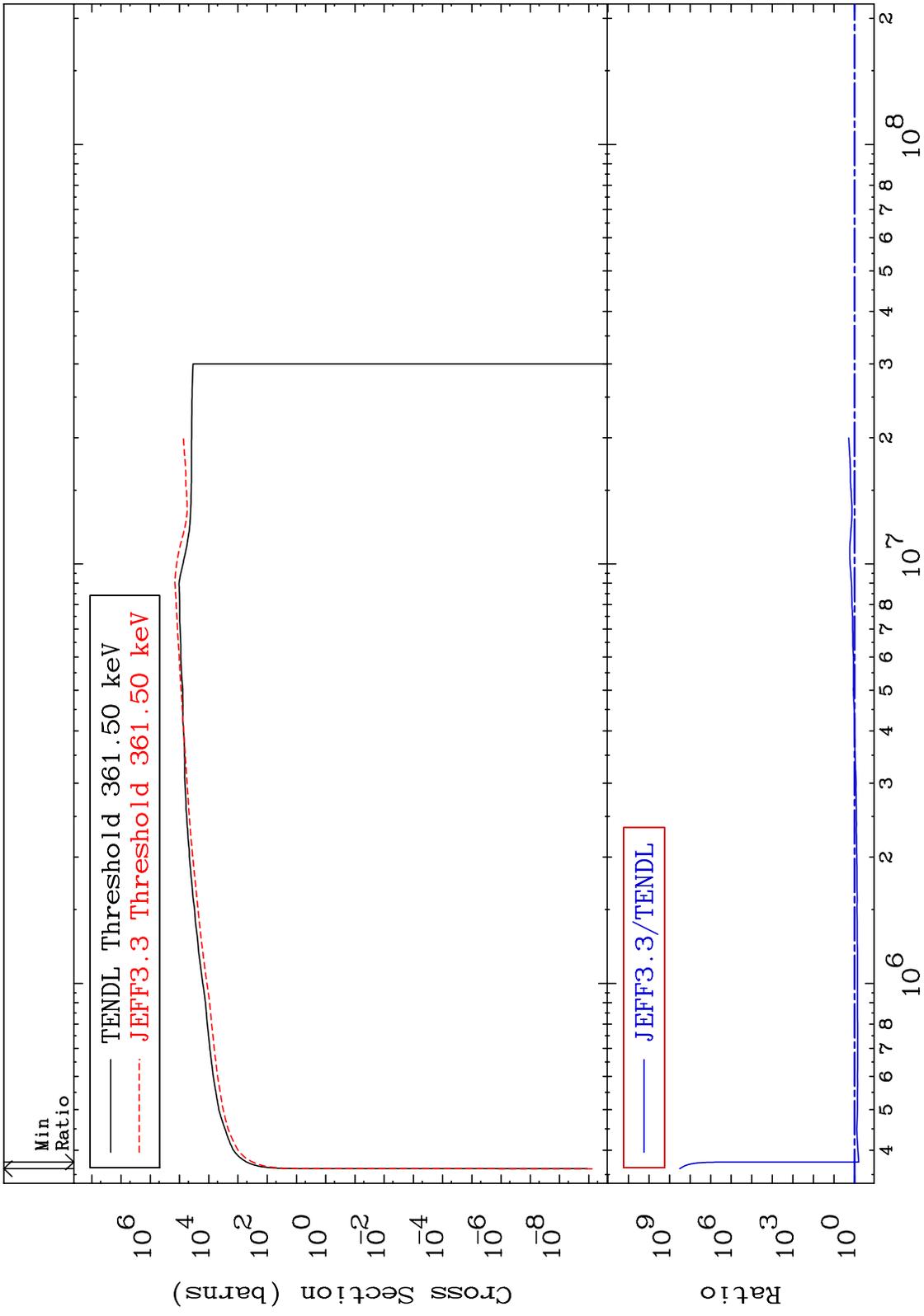
Incident Energy (eV) 44-Ru-104

MAT 4449      Dpa total (eV-barns)      44-Ru-104  
 Cross Section      -97.35 To 9999. %



MAT 4449      Dpa elastic (mt2)      44-Ru-104  
 Cross Section      -99.46 To 9999. %





MAT 4449

Dpa disappearance (mt102 -120)  
Cross Section

44-Ru-104  
-99.95 To 9999. %

