

Program Complot
(Version 2018-1)

by

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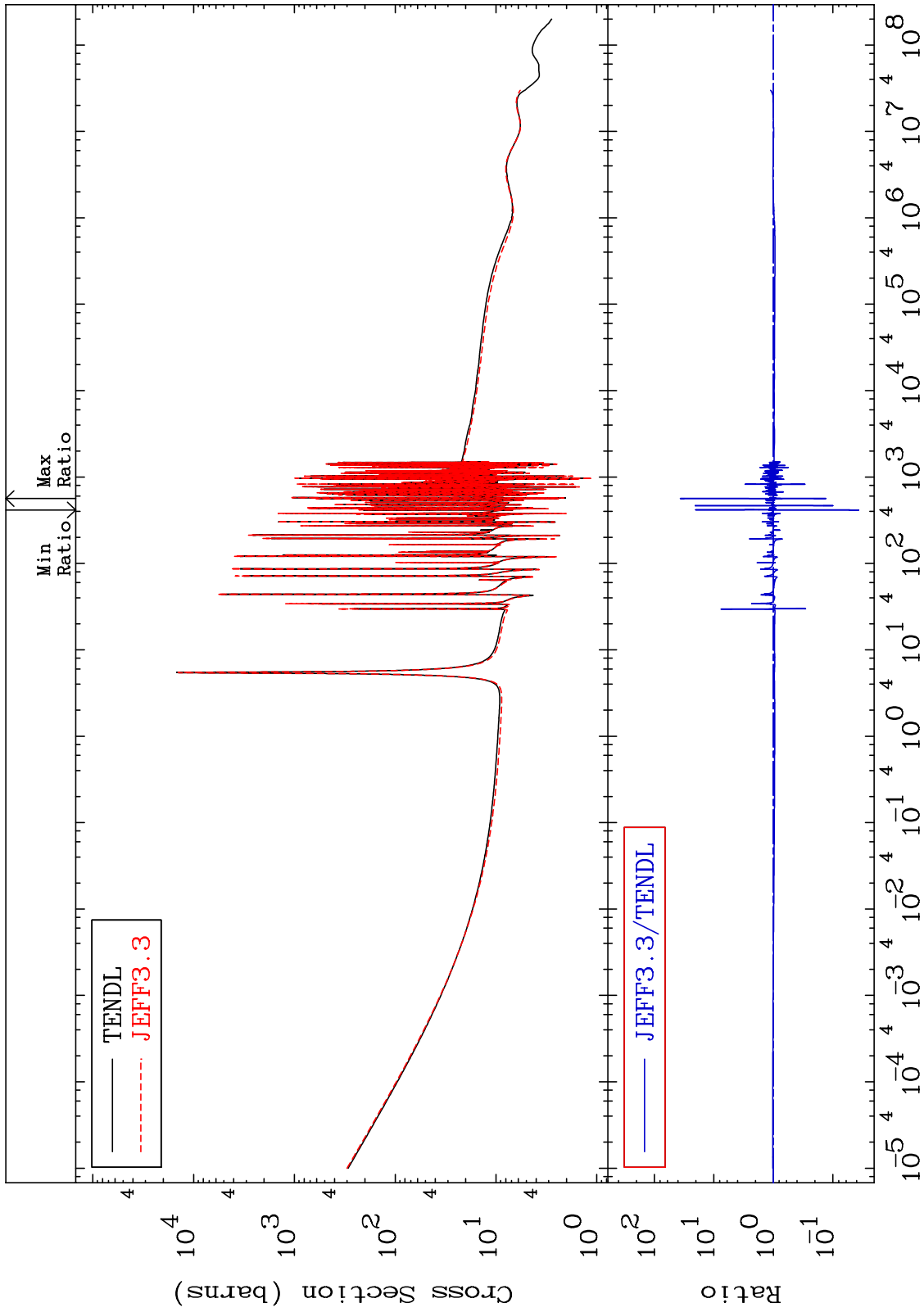
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 9231

Total
Cross Section

92-U -236
-96.33 To 3576. %



1

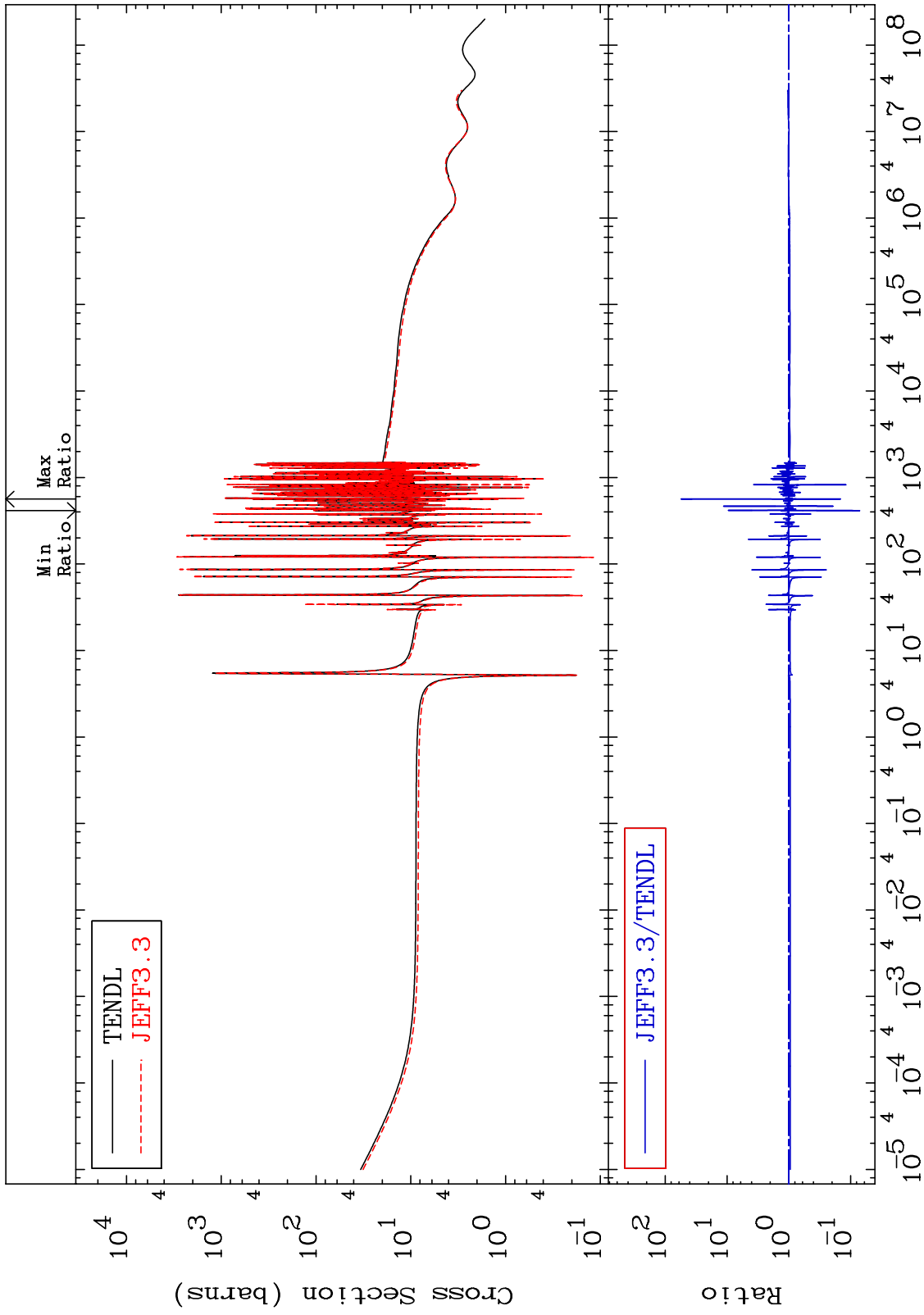
Incident Energy (eV)

92-U -236

MAT 9231

Elastic
Cross Section

92-U -236
-92.86 To 5493. %



2

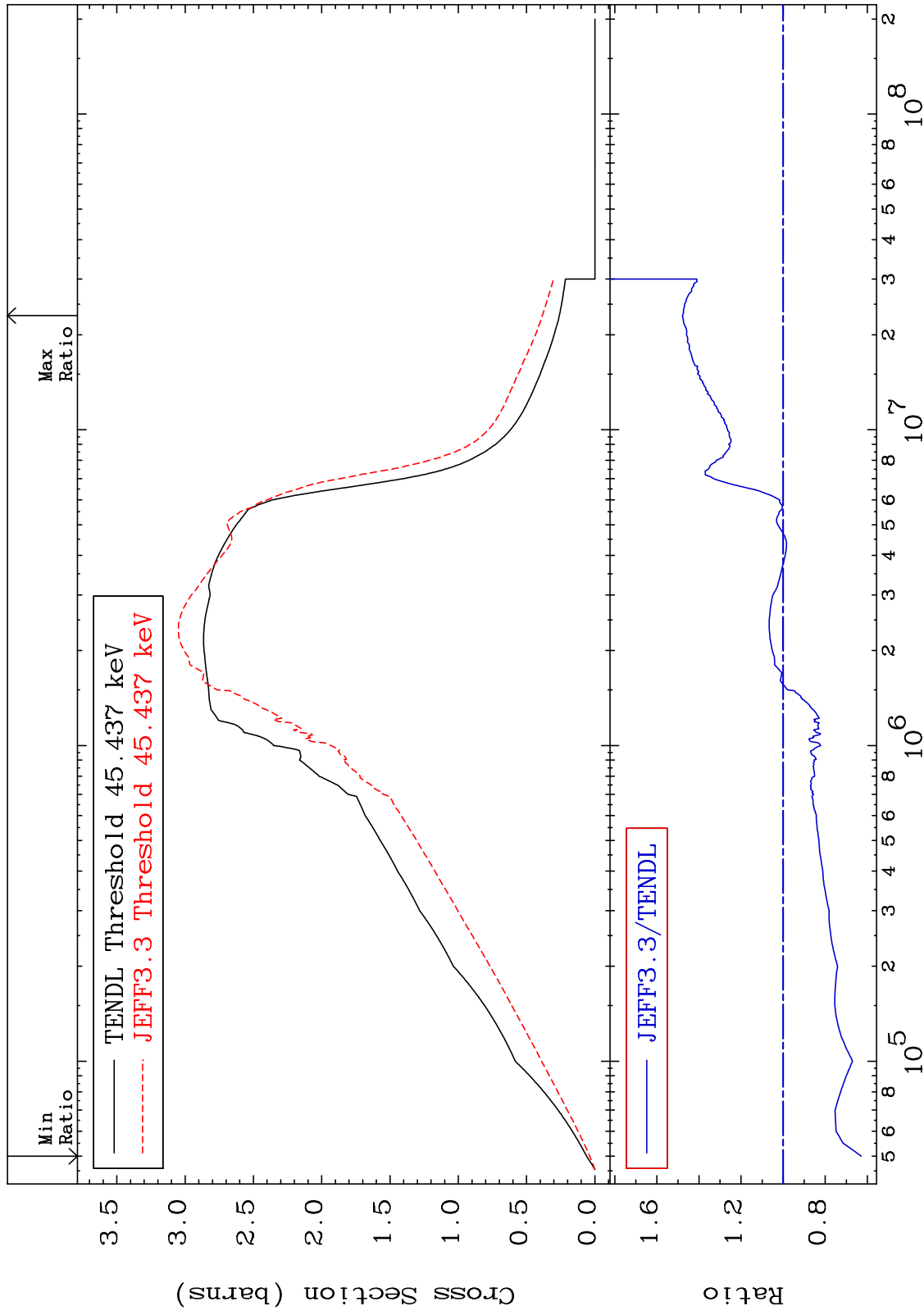
Incident Energy (eV)

92-U -236

MAT 9231

Inelastic
Cross Section

92-U -236
-37.14 To 47.84 %



3

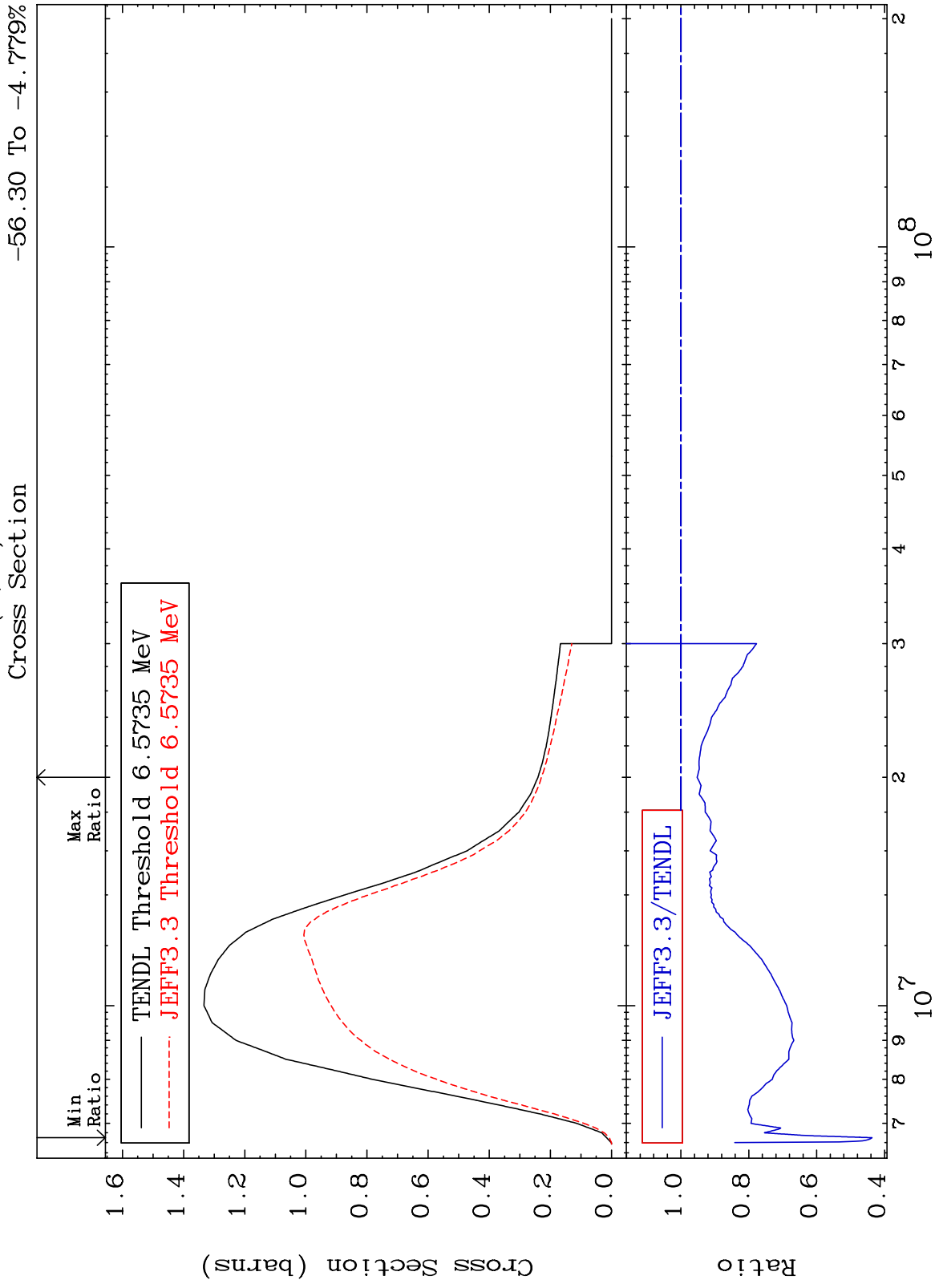
Incident Energy (eV)

92-U -236

MAT 9231

(n,2n)

92-U -236
-56.30 To -4.779%



4

Incident Energy (eV)

92-U -236

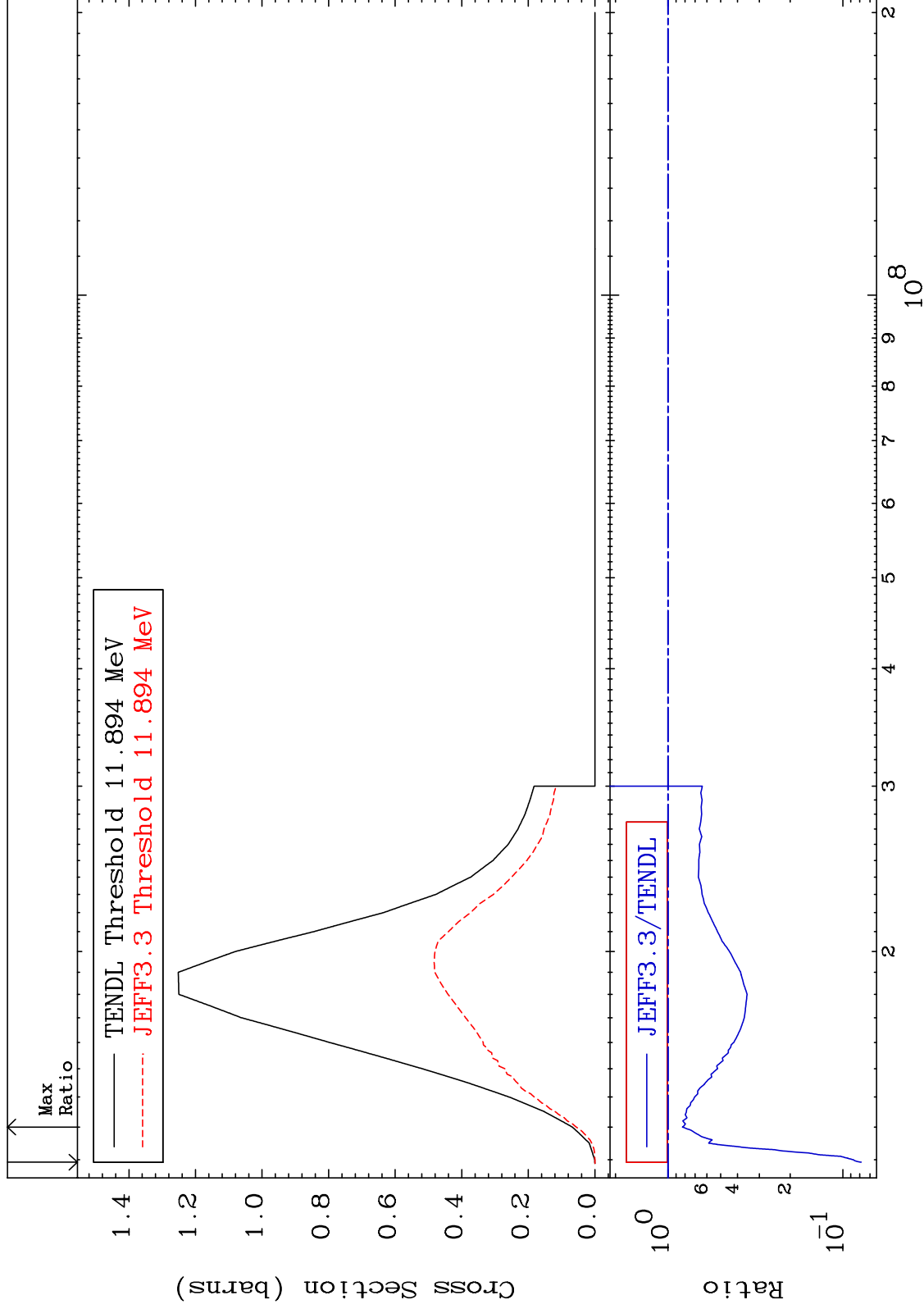
MAT 9231

(n,3n)

92-U -236

Cross Section

-92.16 To -17.32%



5

Incident Energy (eV)

92-U -236

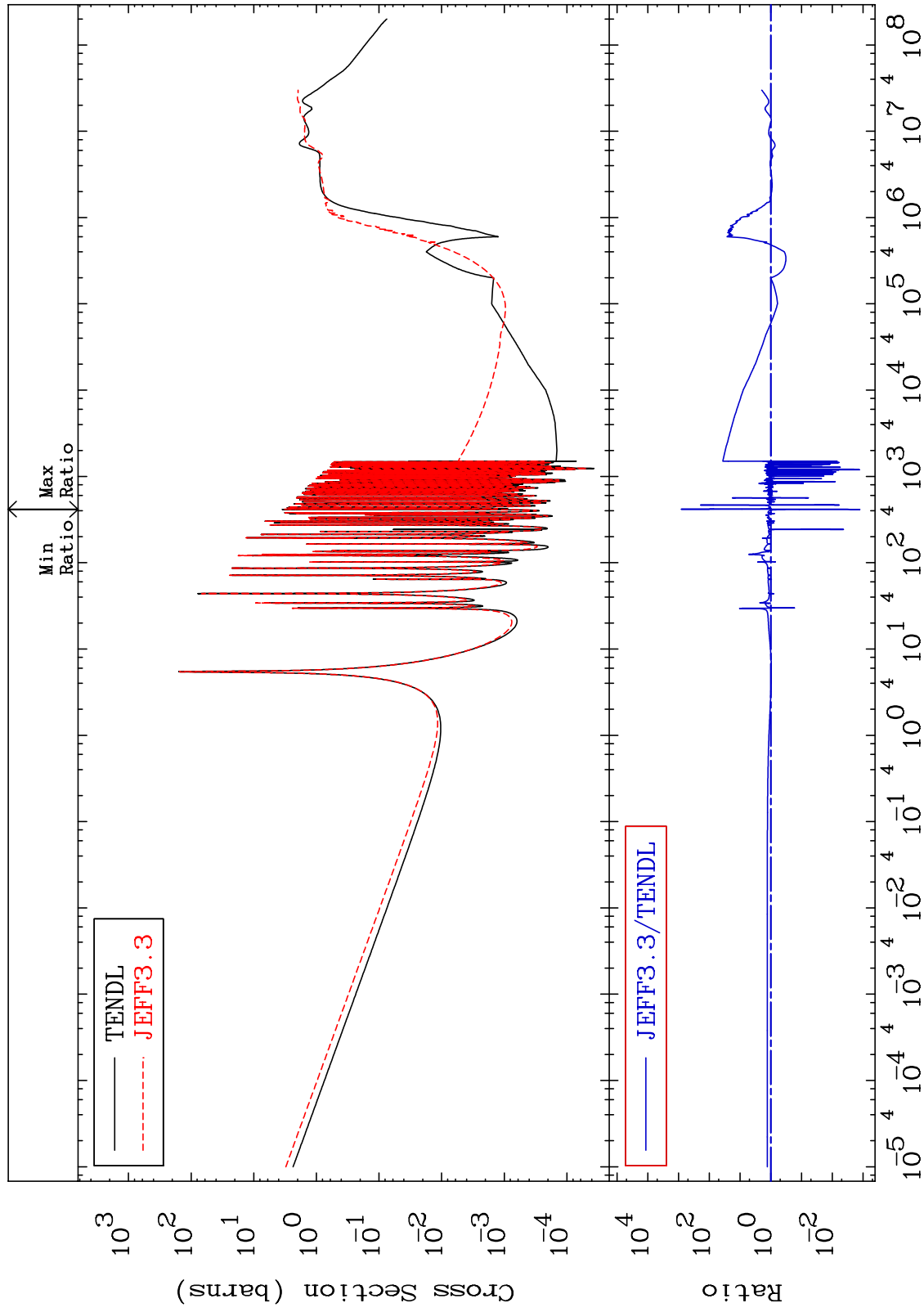
MAT 9231

Fission

92-U -236

Cross Section

-99.87 To 9999. %



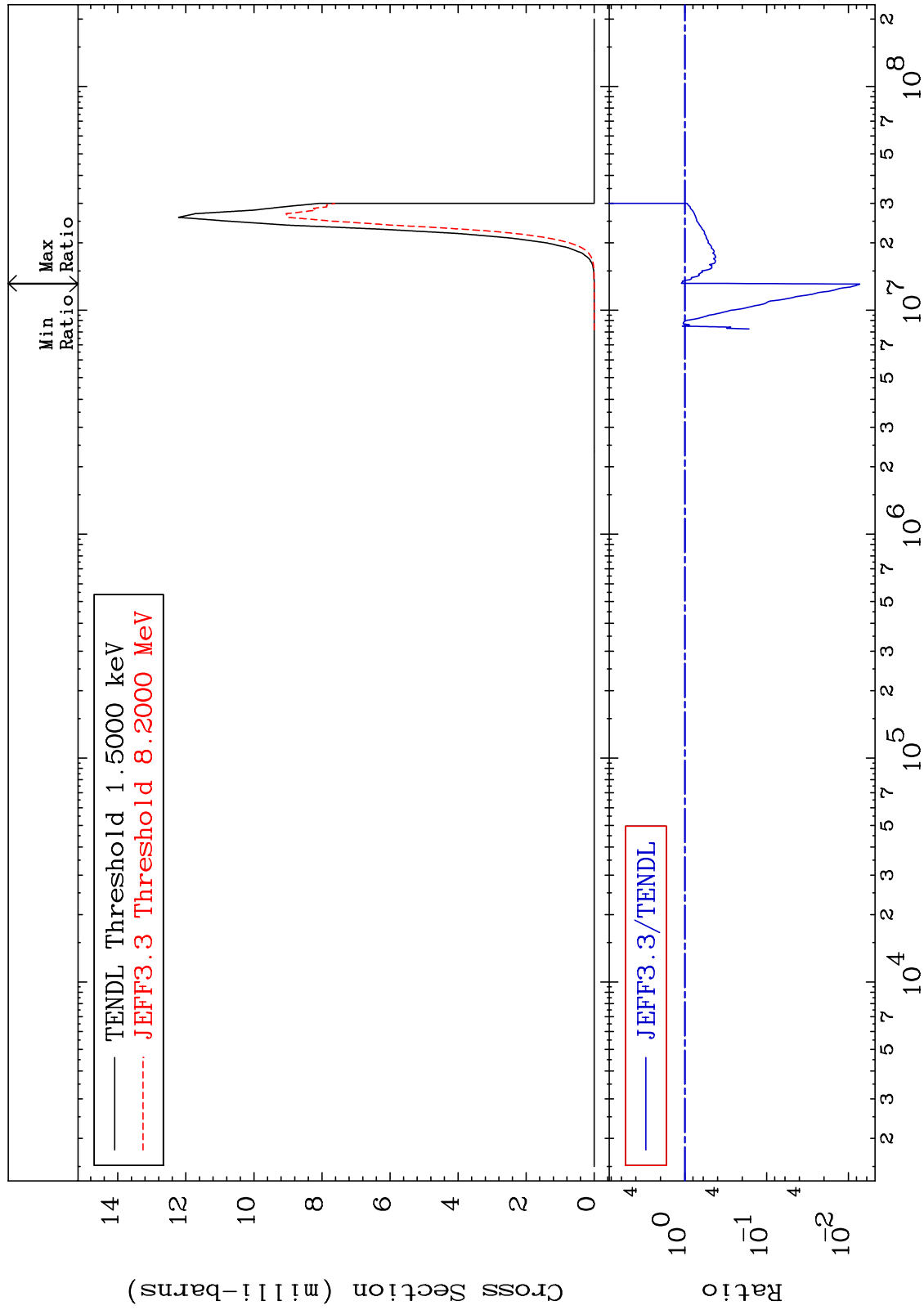
MAT 9231

(n, n') α

92-U -236

Cross Section

-99.27 To 10.44 %



7

Incident Energy (eV)

92-U -236

MAT 9231

(n,2n) α

92-U -236

-86.31 To 261.5 %

Cross Section

Min Ratio

Max Ratio

TENDL Threshold 1.8755 MeV
JEFF3.3 Threshold 14.300 MeV

Cross Section (milli-barns)

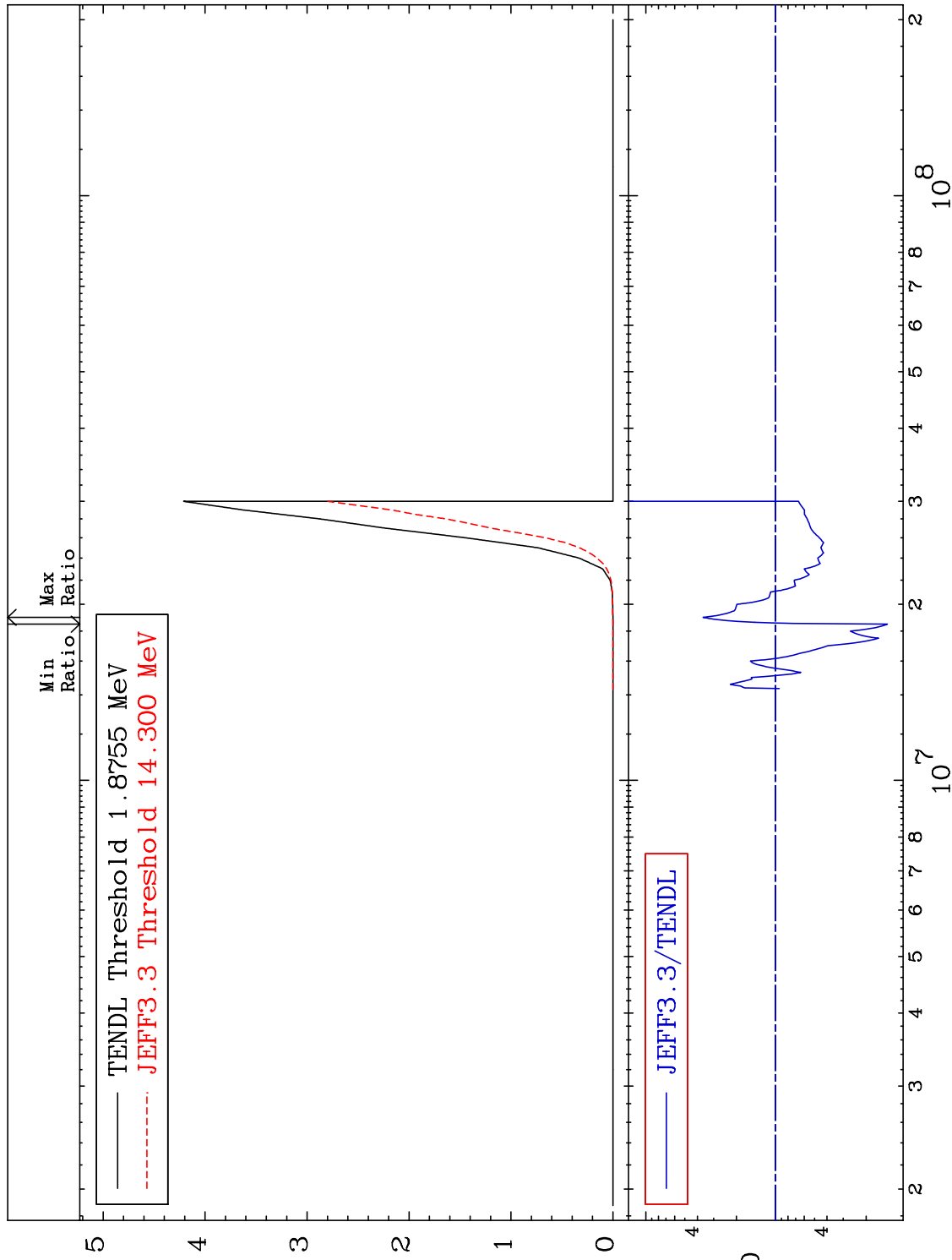
JEFF3.3/TENDL

Ratio

8

Incident Energy (eV)

92-U -236



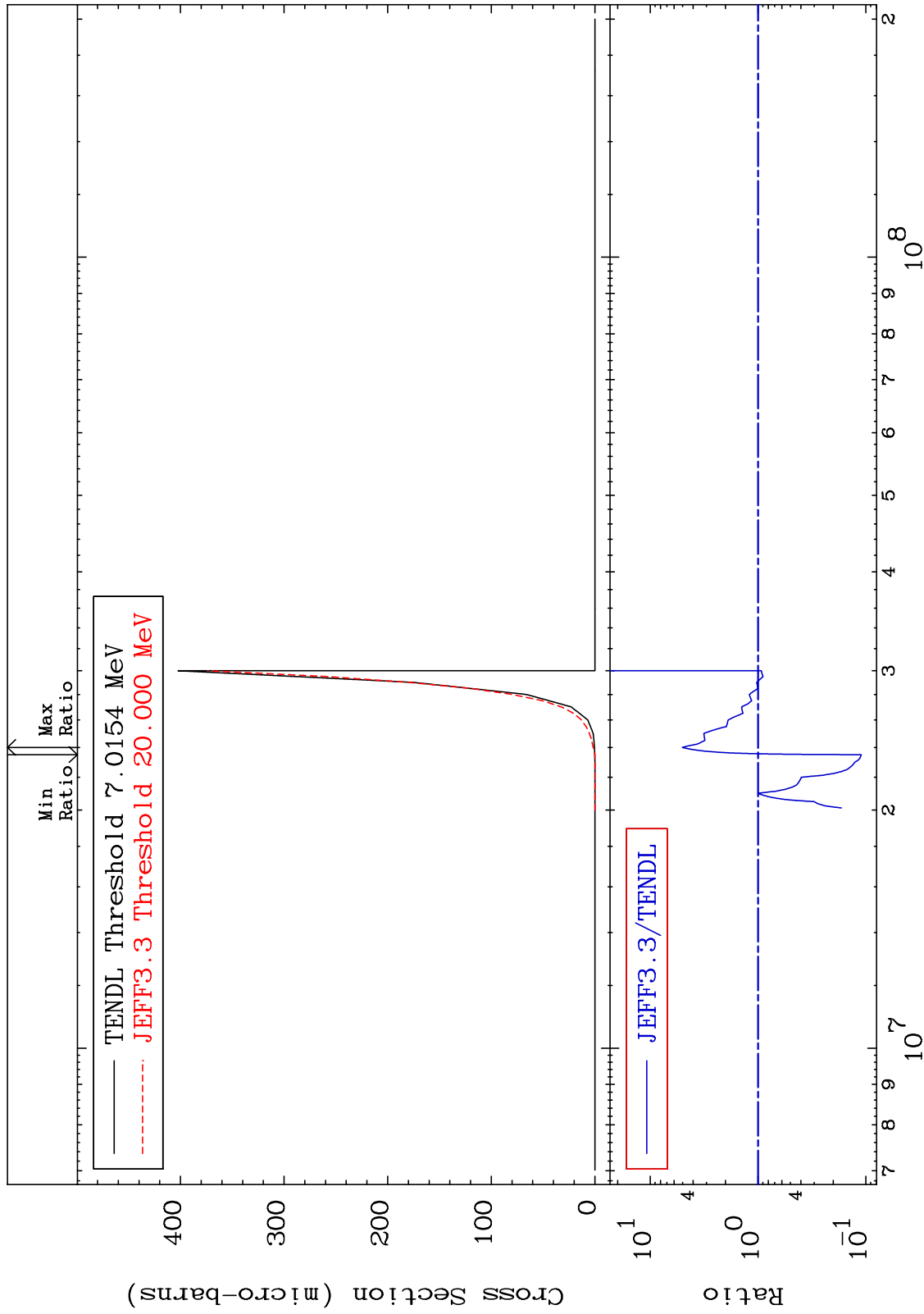
MAT 9231

(n,3n) α

92-U -236

-89.00 To 401.5 %

Cross Section



9

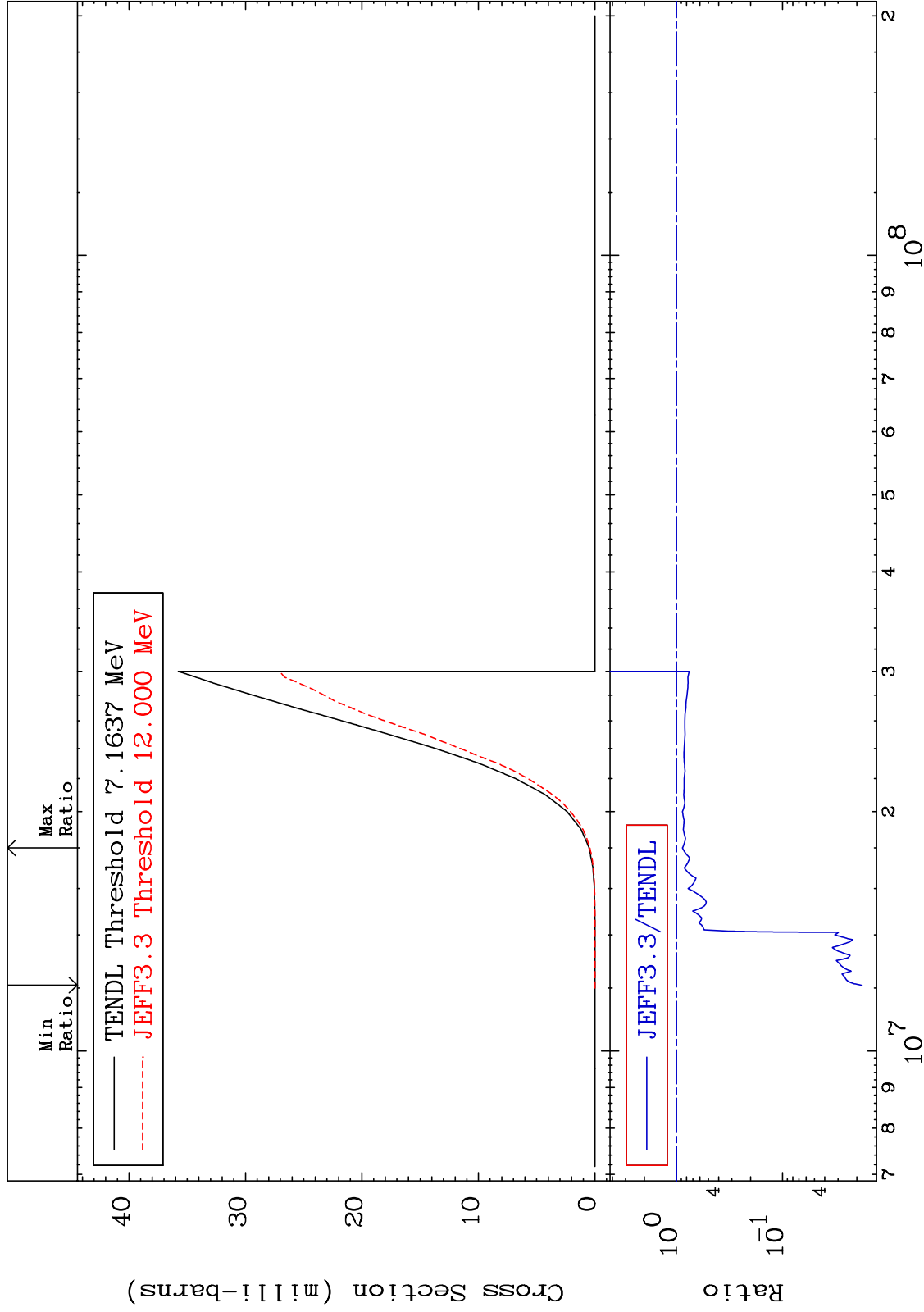
Incident Energy (eV)

92-U -236

MAT 9231

(n, n') p
Cross Section

92-U -236
-98.18 To -12.43%



10

Incident Energy (eV)

92-U -236

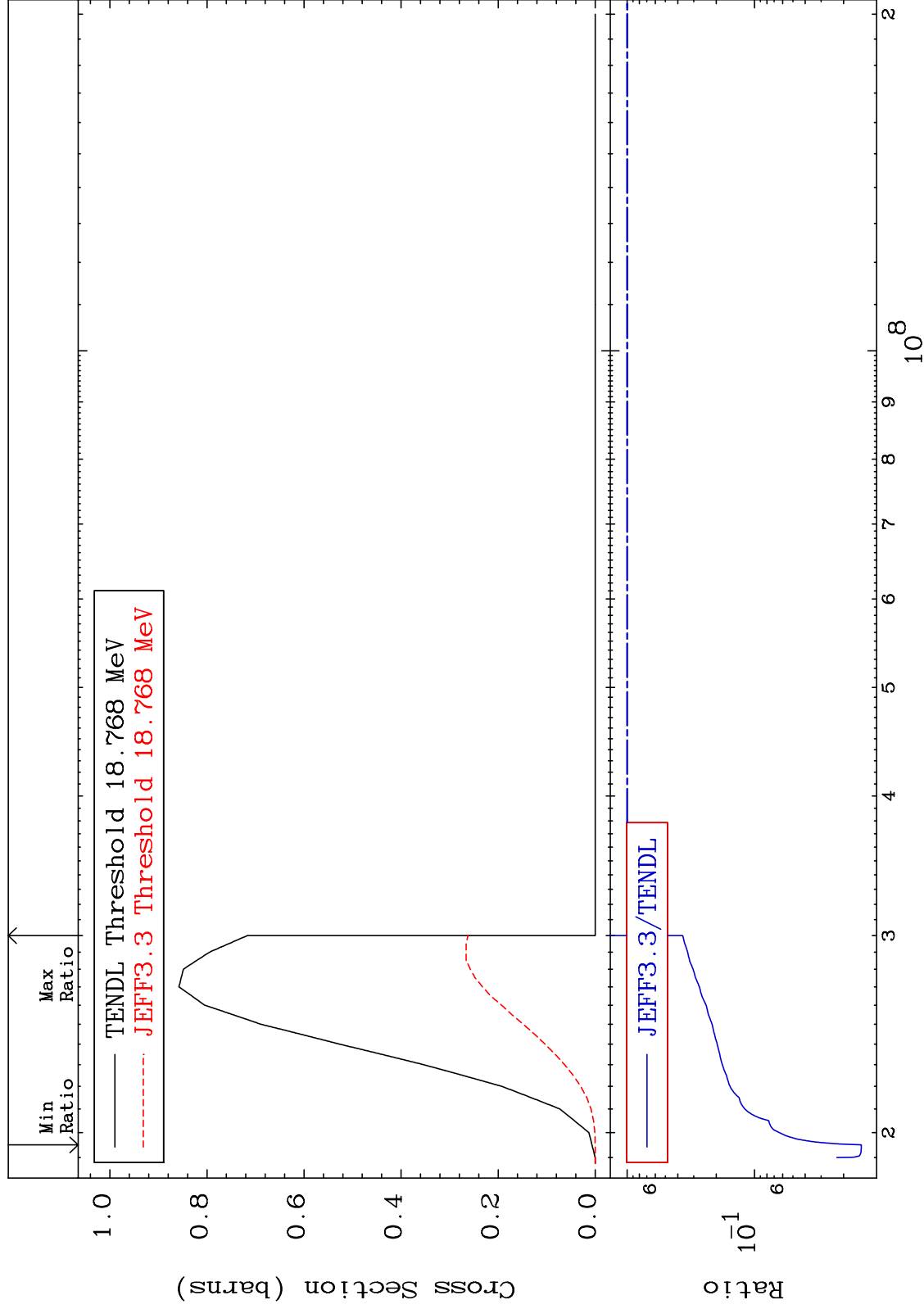
MAT 9231

(n,4n)

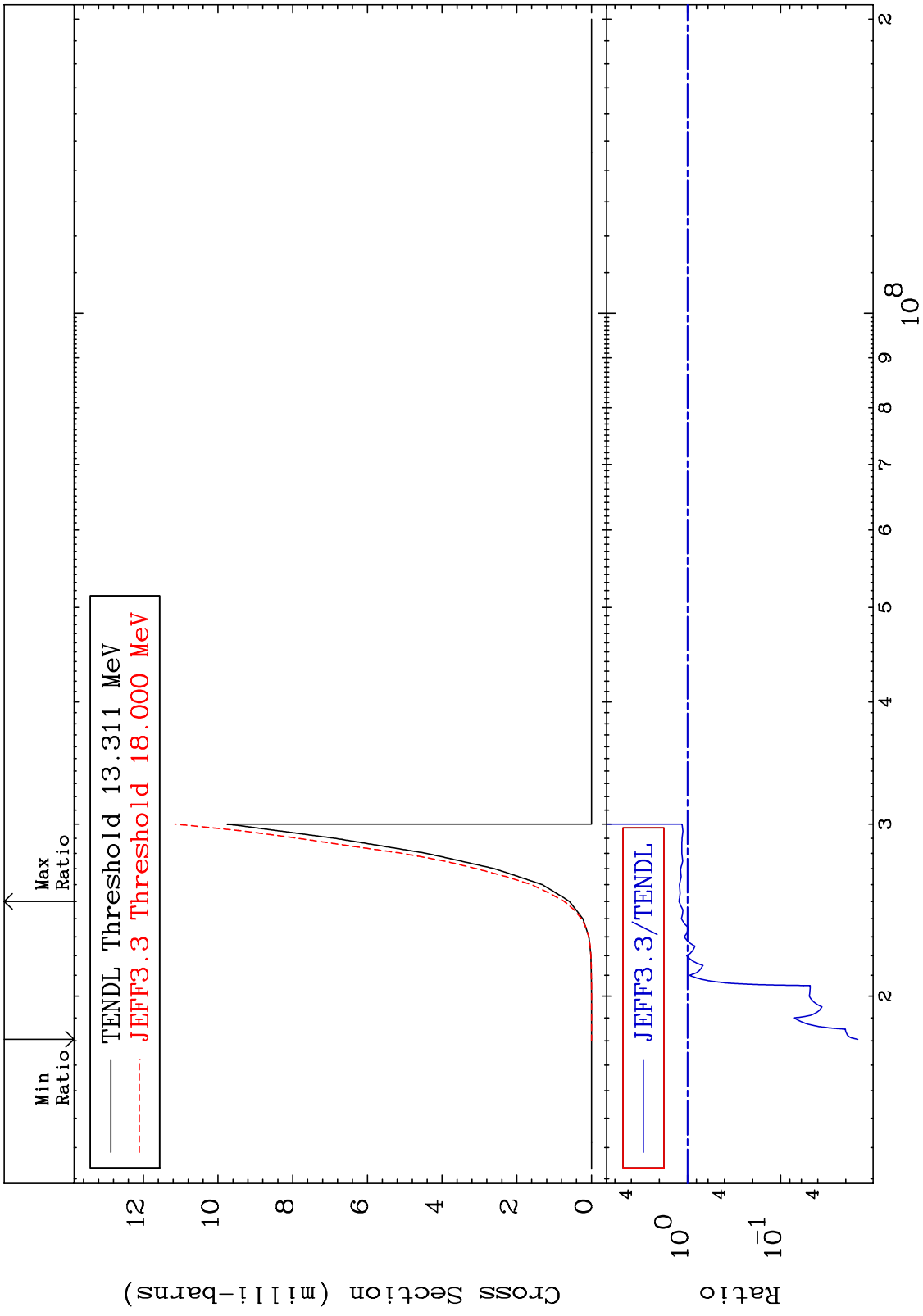
92-U -236

Cross Section

-98.55 To -63.37%



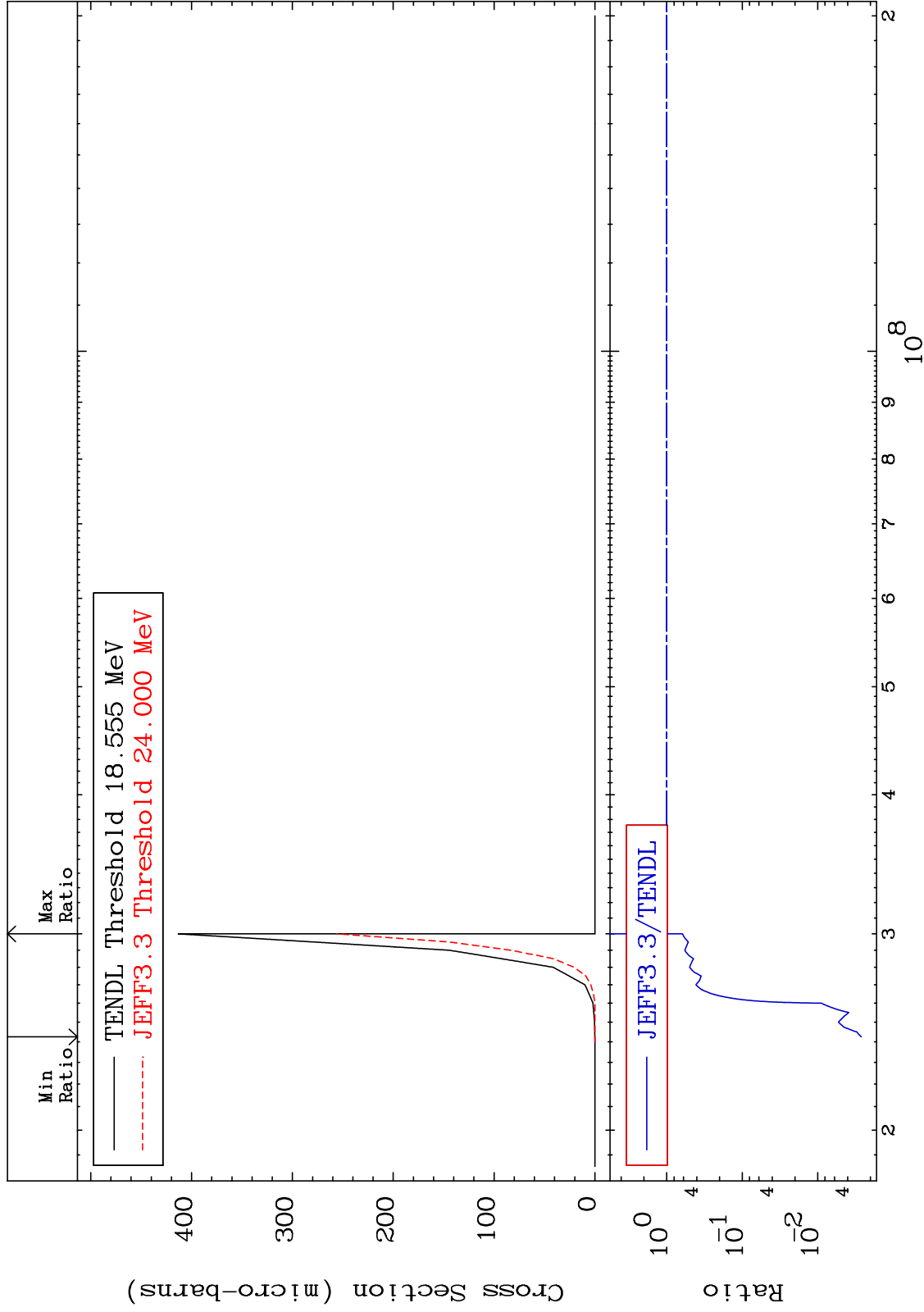
MAT 9231 (n,2n) p 92-U -236
 Cross Section -98.51 To 23.07 %



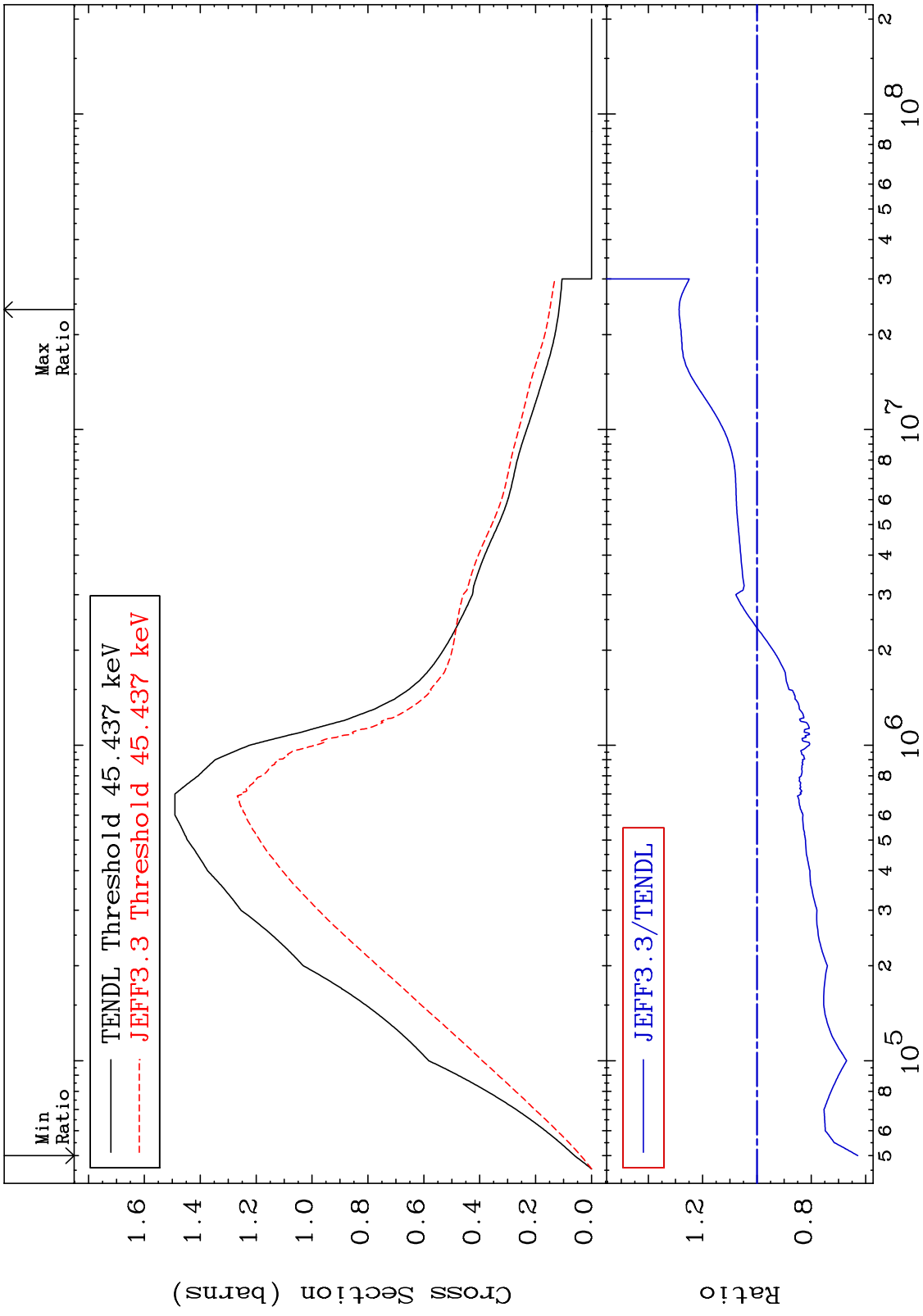
MAT 9231

(n,3n) p
Cross Section

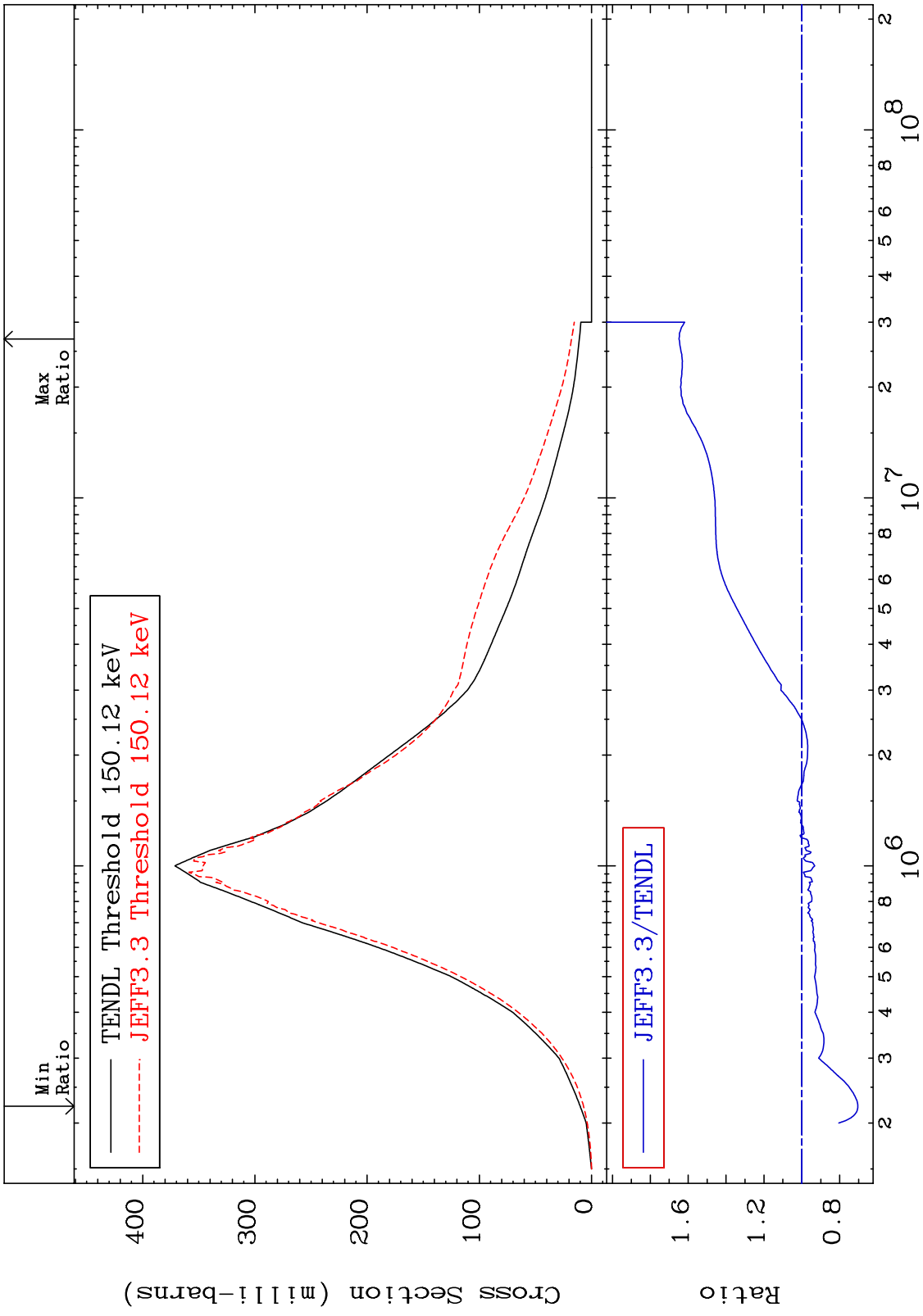
92-U -236
-99.74 To -38.10%



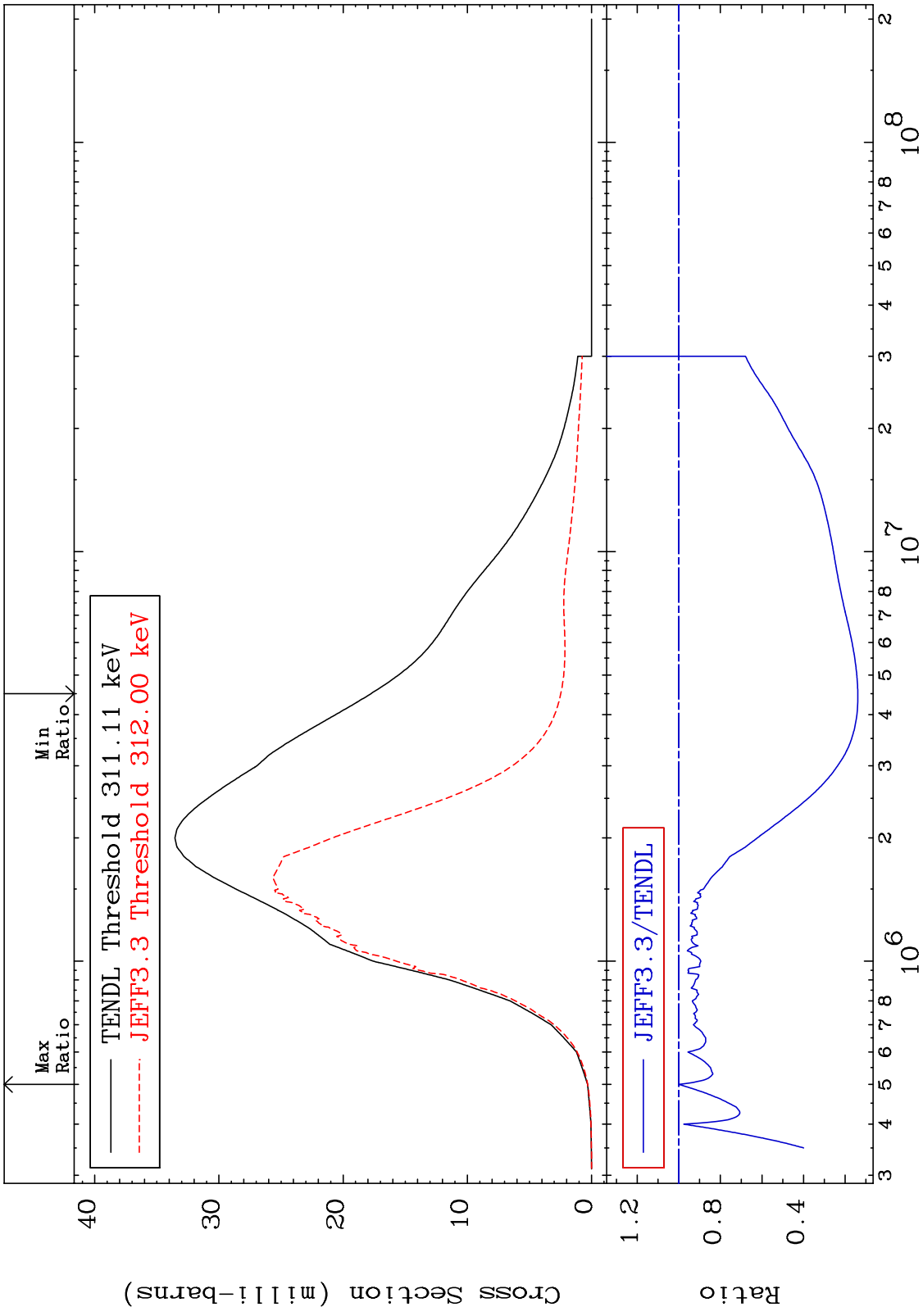
MAT 9231 MT= 51 (n,n') Level 92-U -236
 Cross Section -37.14 To 28.69 %



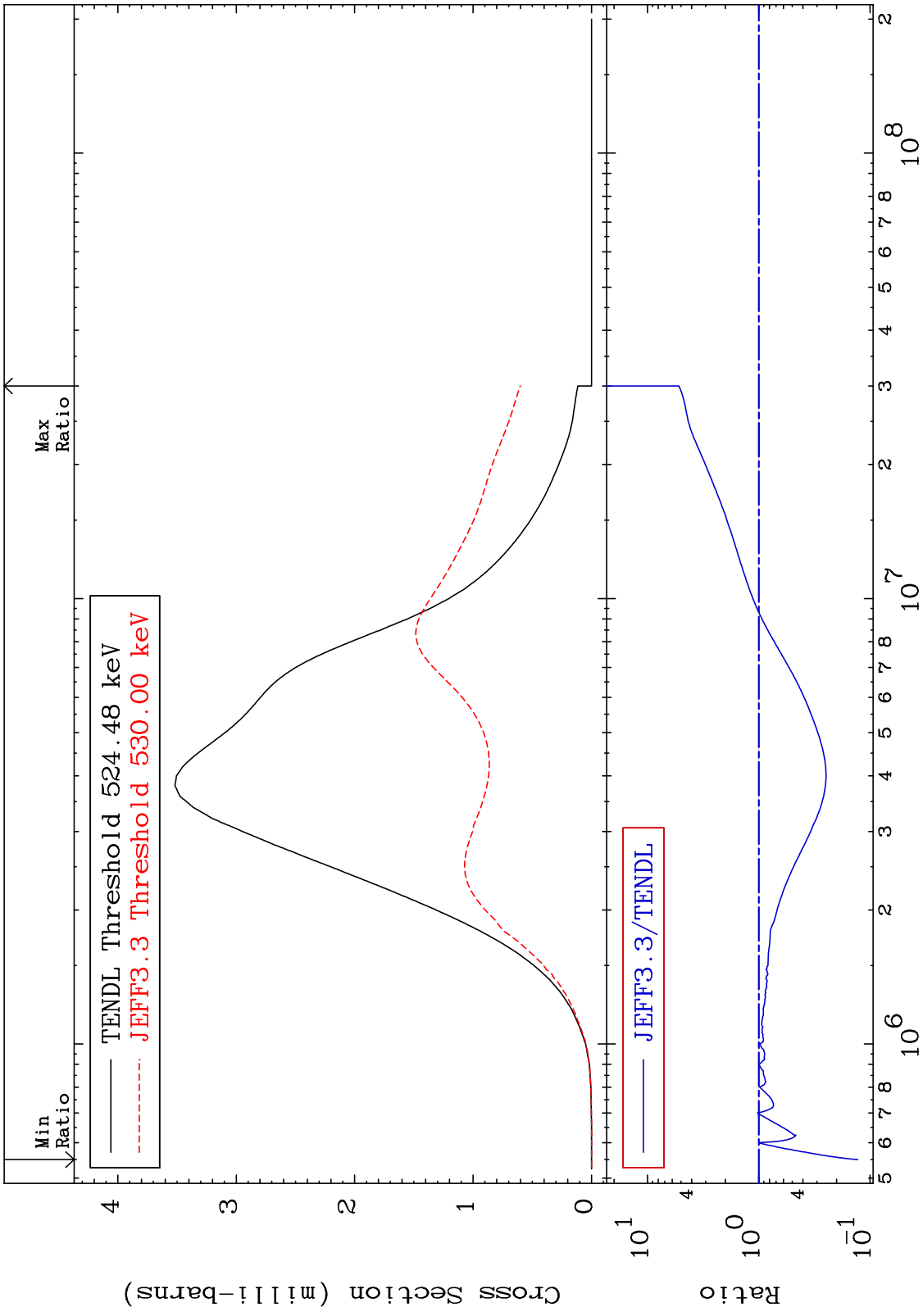
MAT 9231 MT= 52 (n,n') Level Cross Section 92-U -236
 -29.58 To 64.83 %



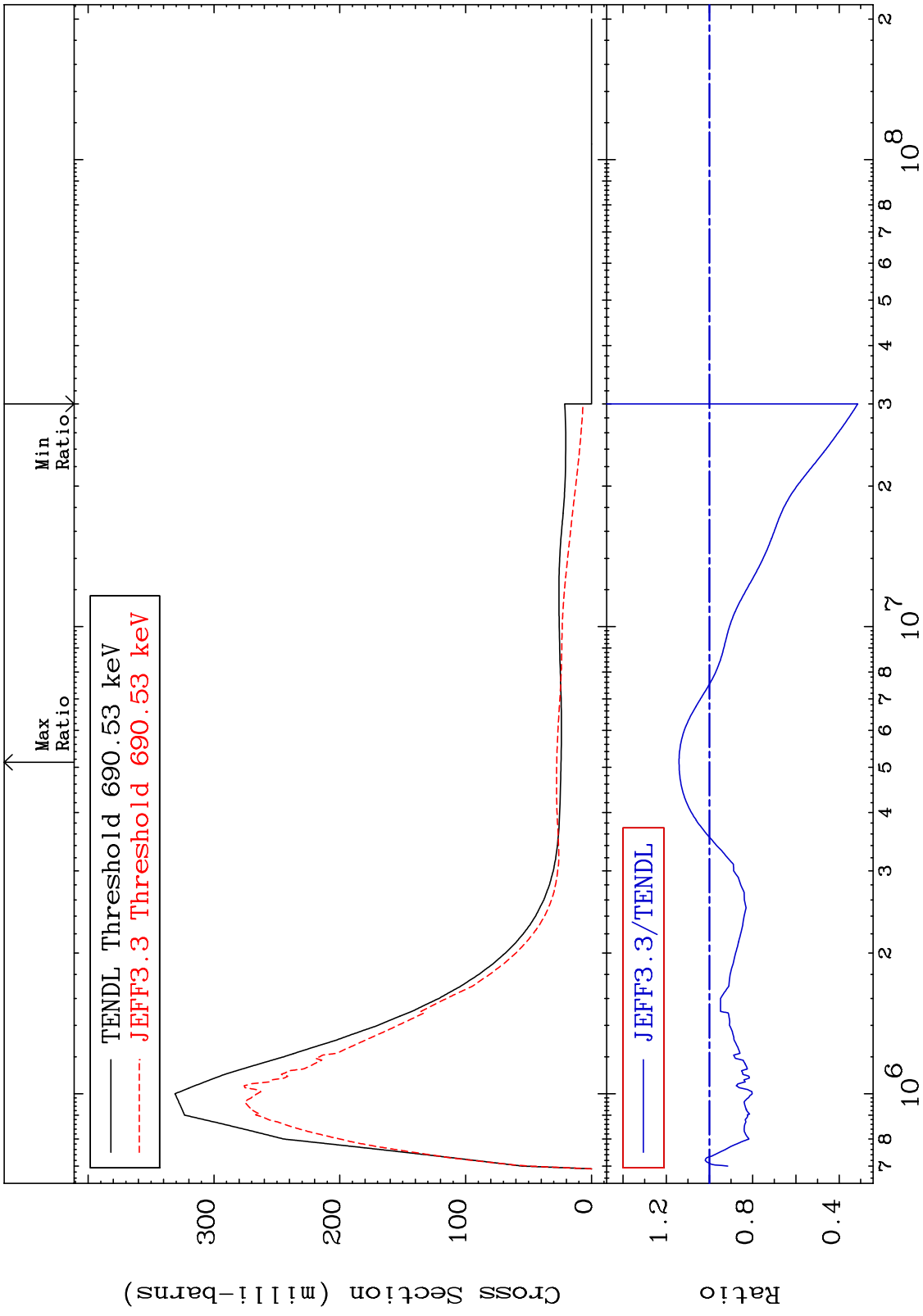
MAT 9231 MT= 53 (n,n') Level Cross Section 92-U -236
 -86.09 To -0.121%



MAT 9231 MT= 54 (n,n') Level Cross Section 92-U -236
 -87.15 To 420.3 %



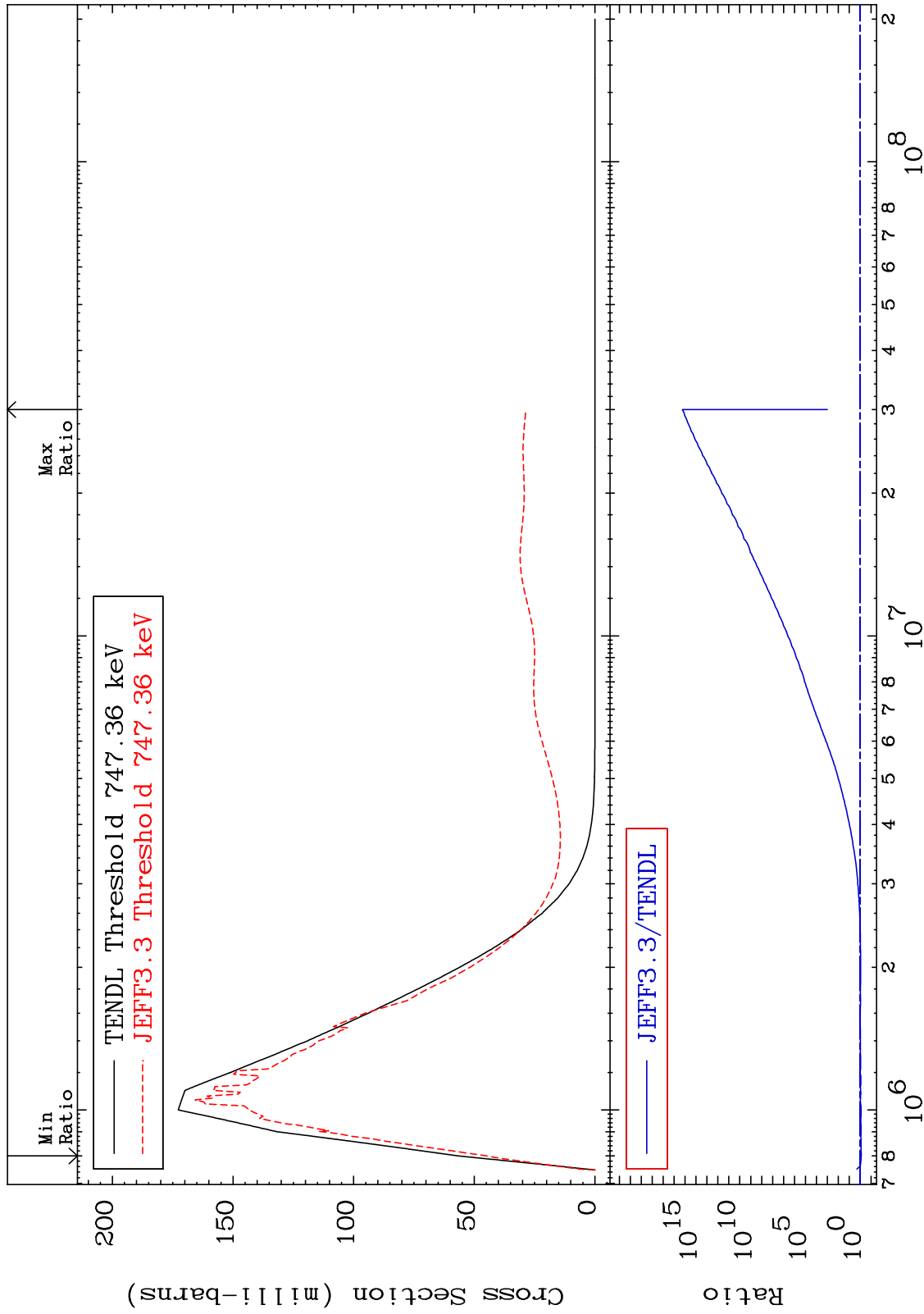
MAT 9231 MT= 55 (n,n') Level Cross Section 92-U -236
 -68.66 To 14.08 %



MAT 9231

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

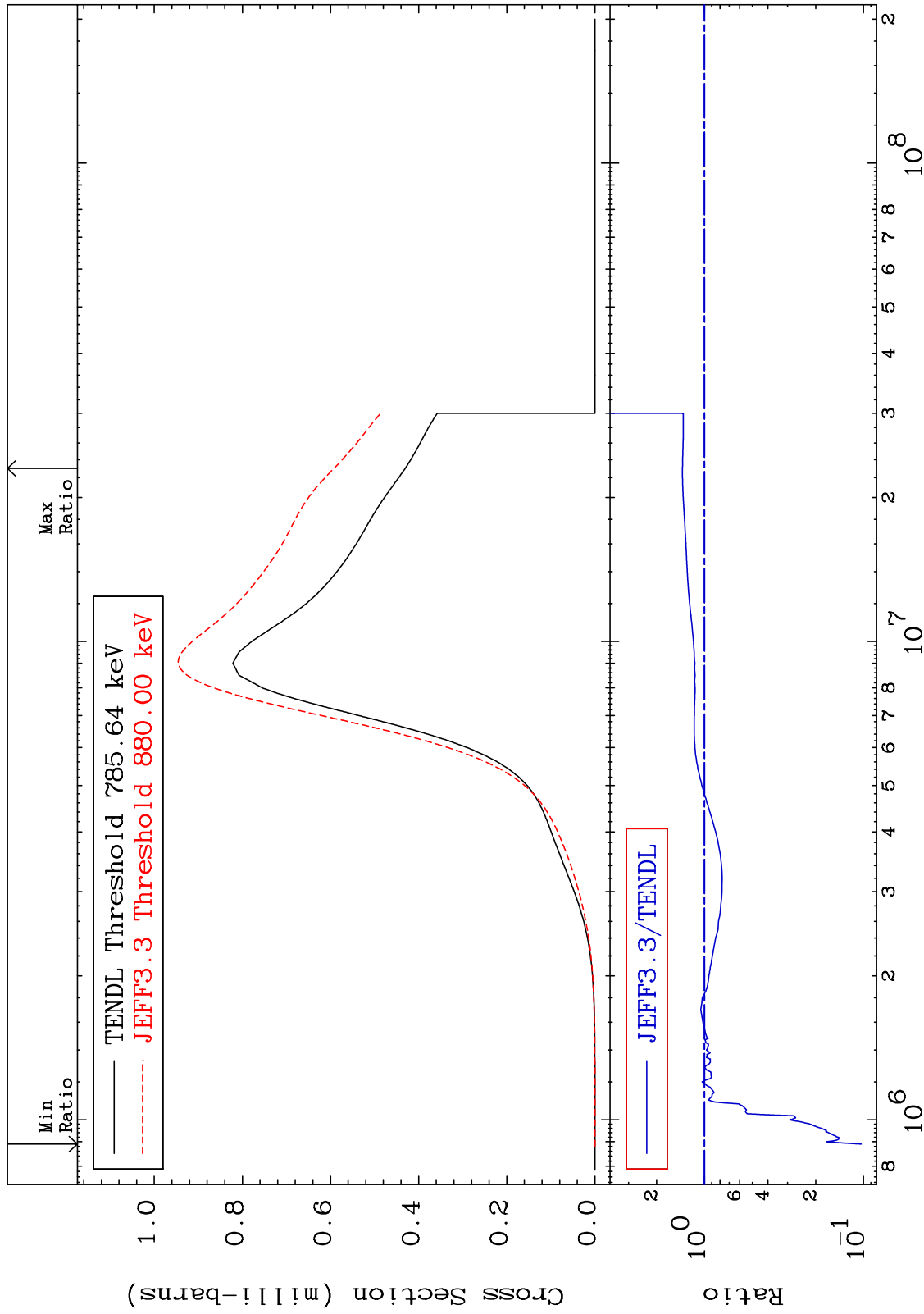
92-U -236
-20.71 To 9999. %



MAT 9231

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

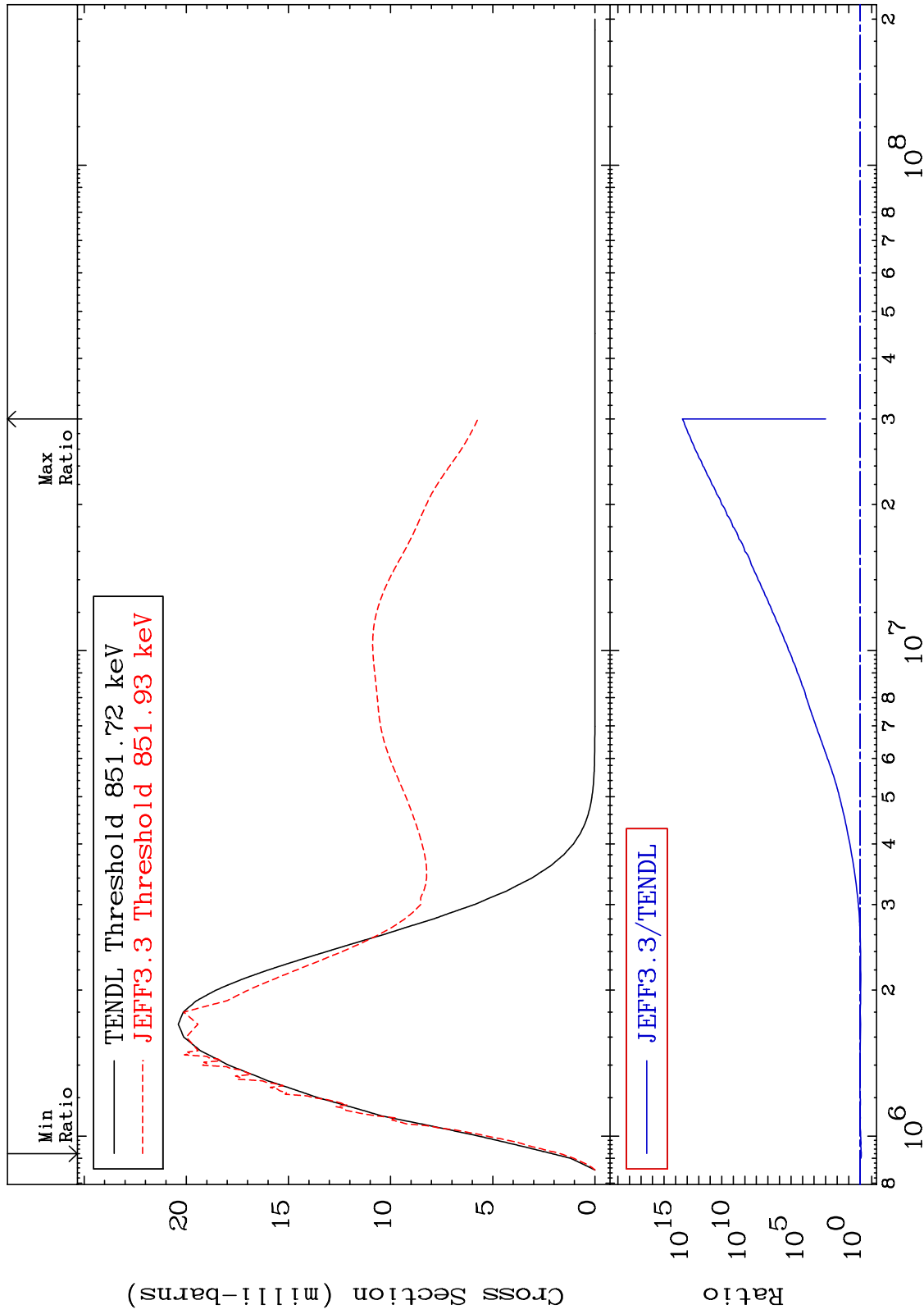
92-U -236
-89.67 To 37.60 %



MAT 9231

MT= 58 (n,n') Level
Cross Section

92-U -236
-18.94 To 9999. %



21

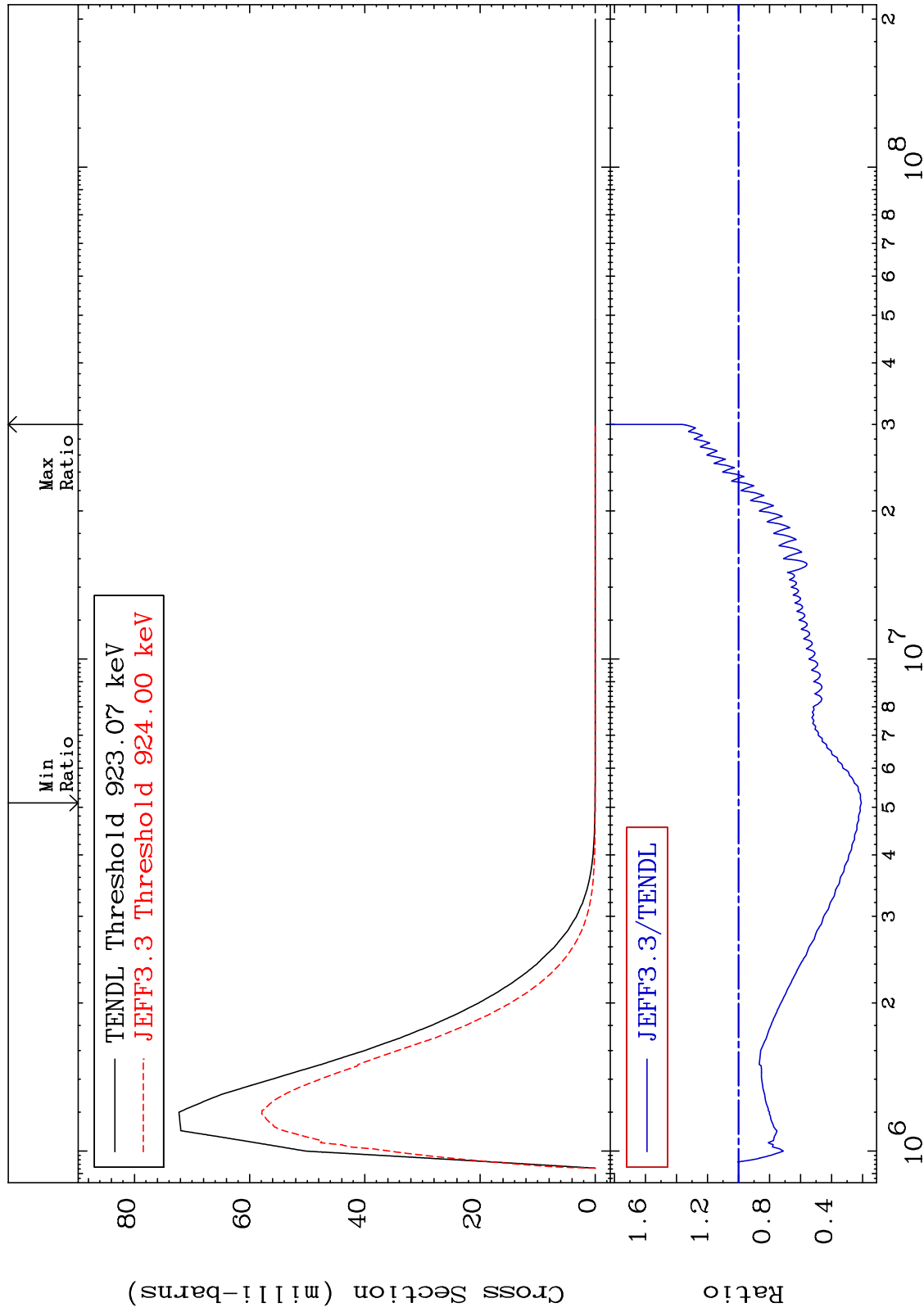
Incident Energy (eV)

92-U -236

MAT 9231

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

92-U -236
-79.15 To 35.98 %



22

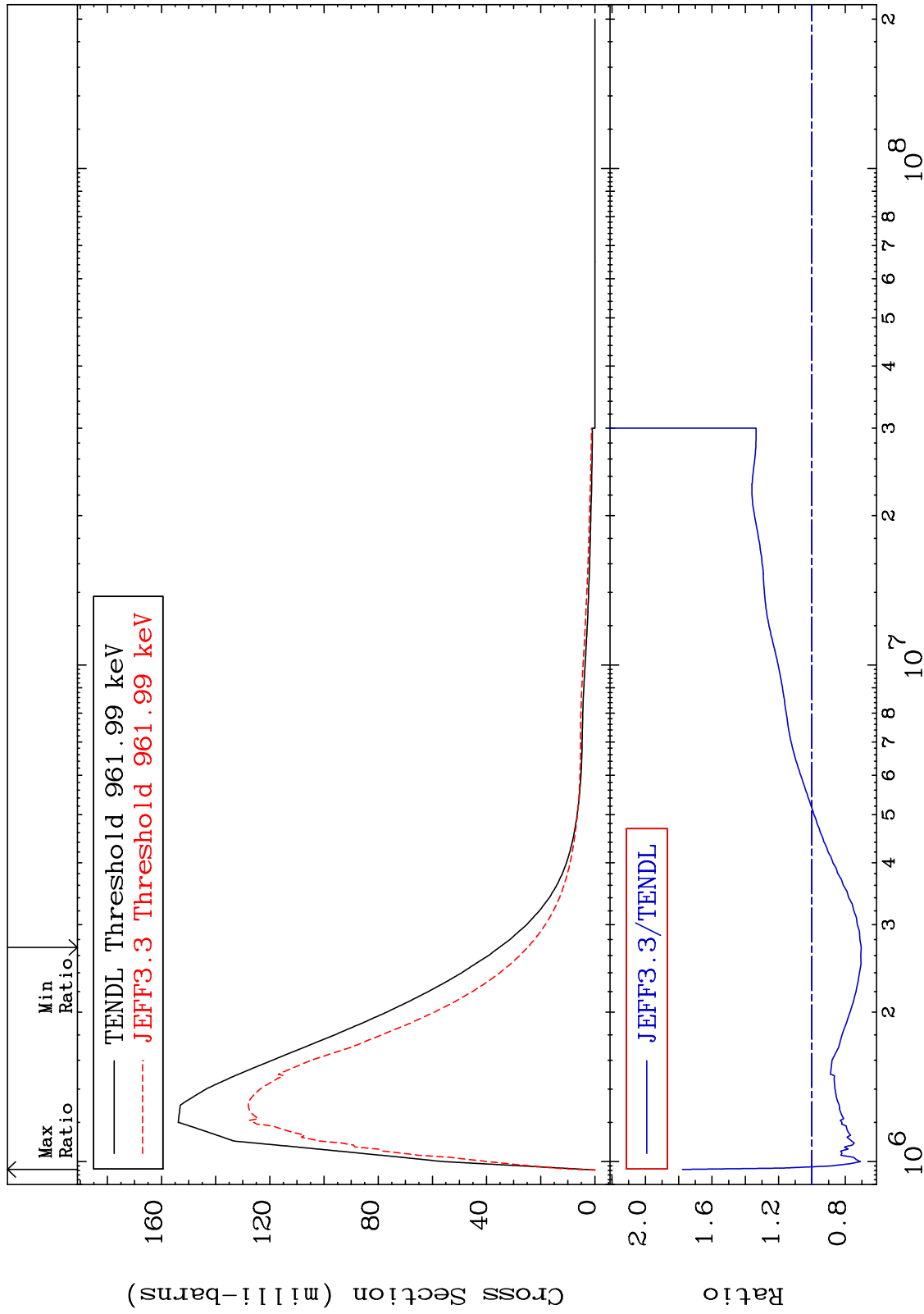
Incident Energy (eV)

92-U -236

MAT 9231

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

92-U -236
-29.65 To 77.73 %

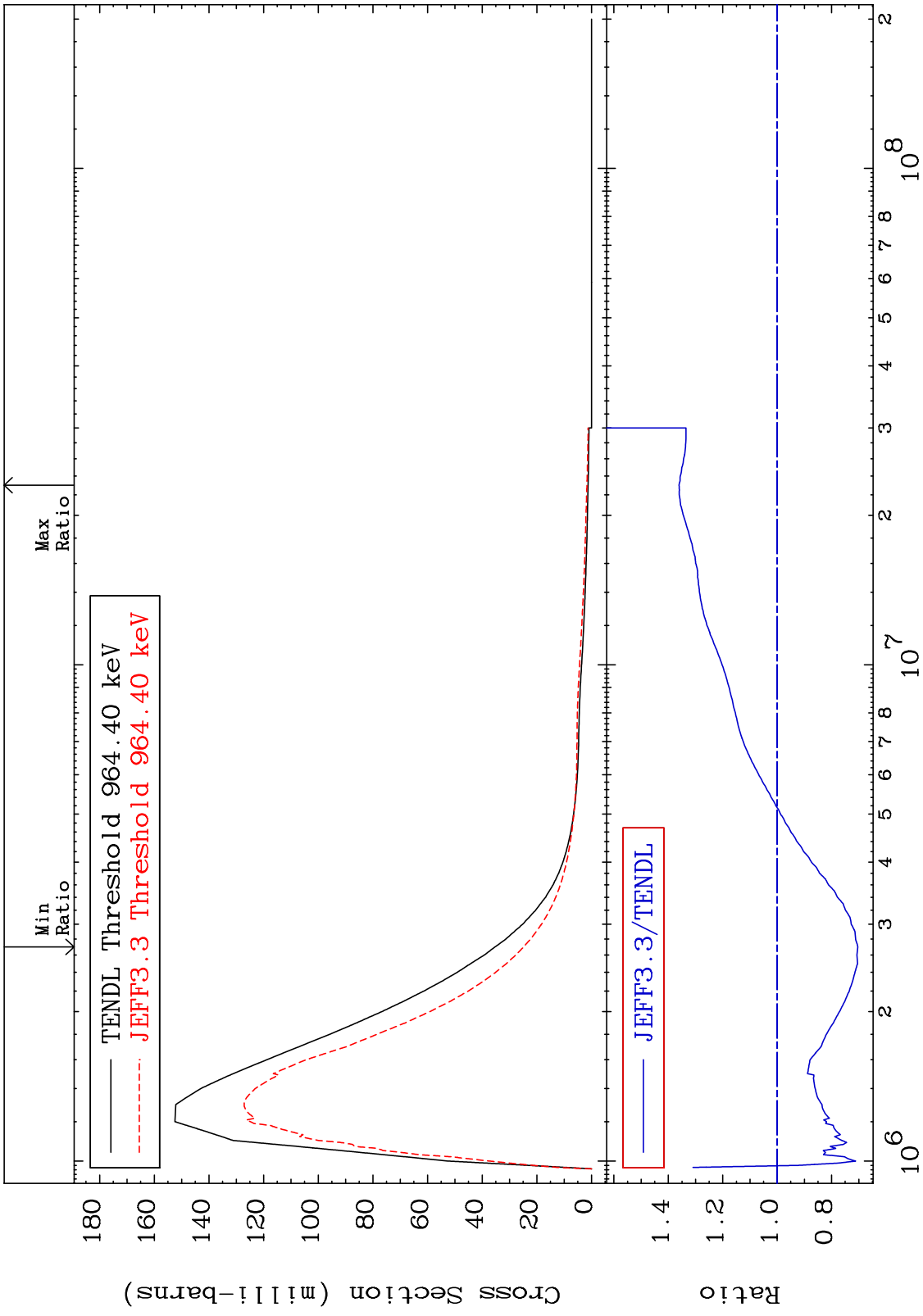


23

Incident Energy (eV)

92-U -236

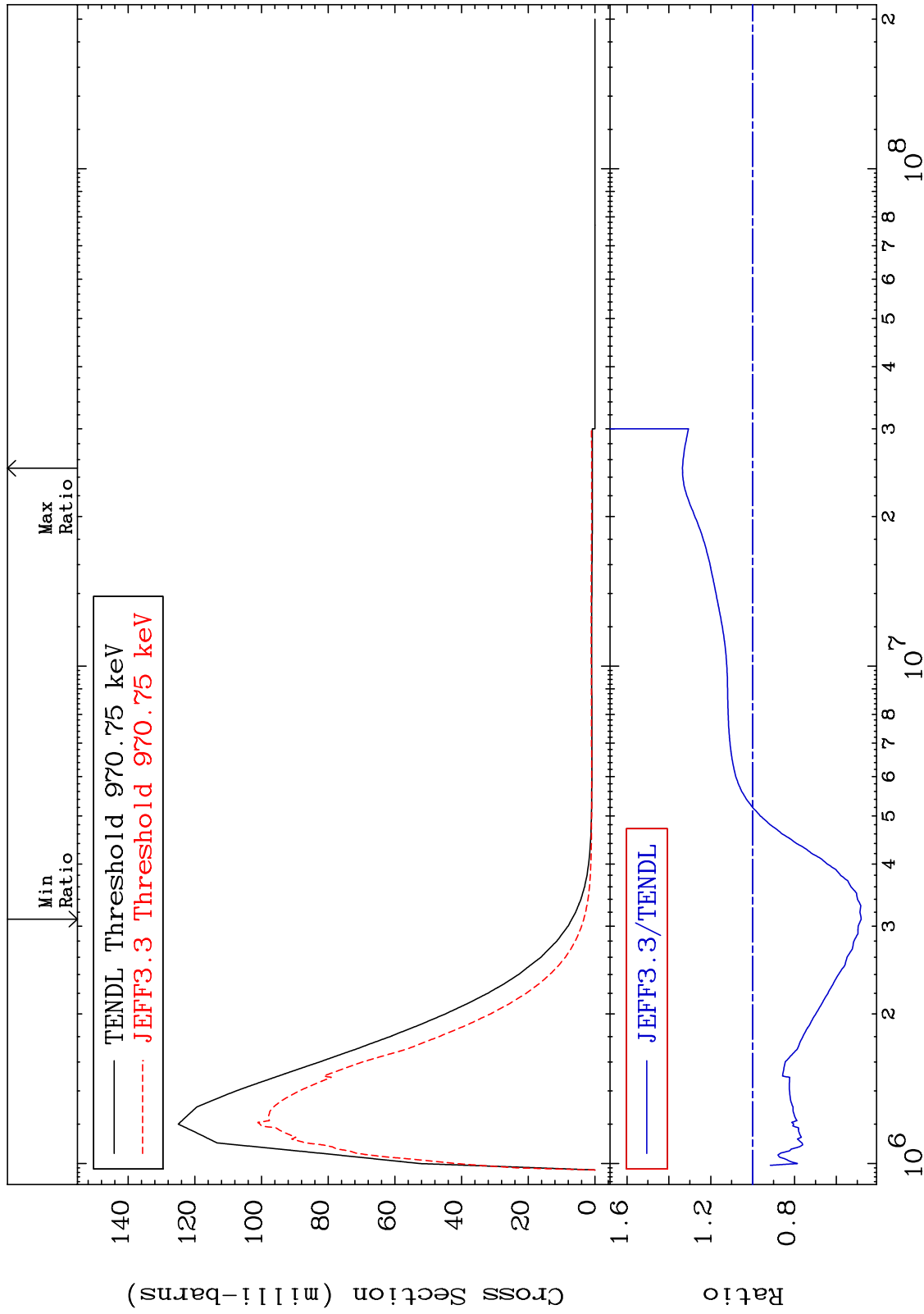
MAT 9231 MT= 61 (n,n') Level Cross Section 92-U -236
 -29.65 To 36.07 %



MAT 9231

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

92-U -236
-51.89 To 33.50 %



25

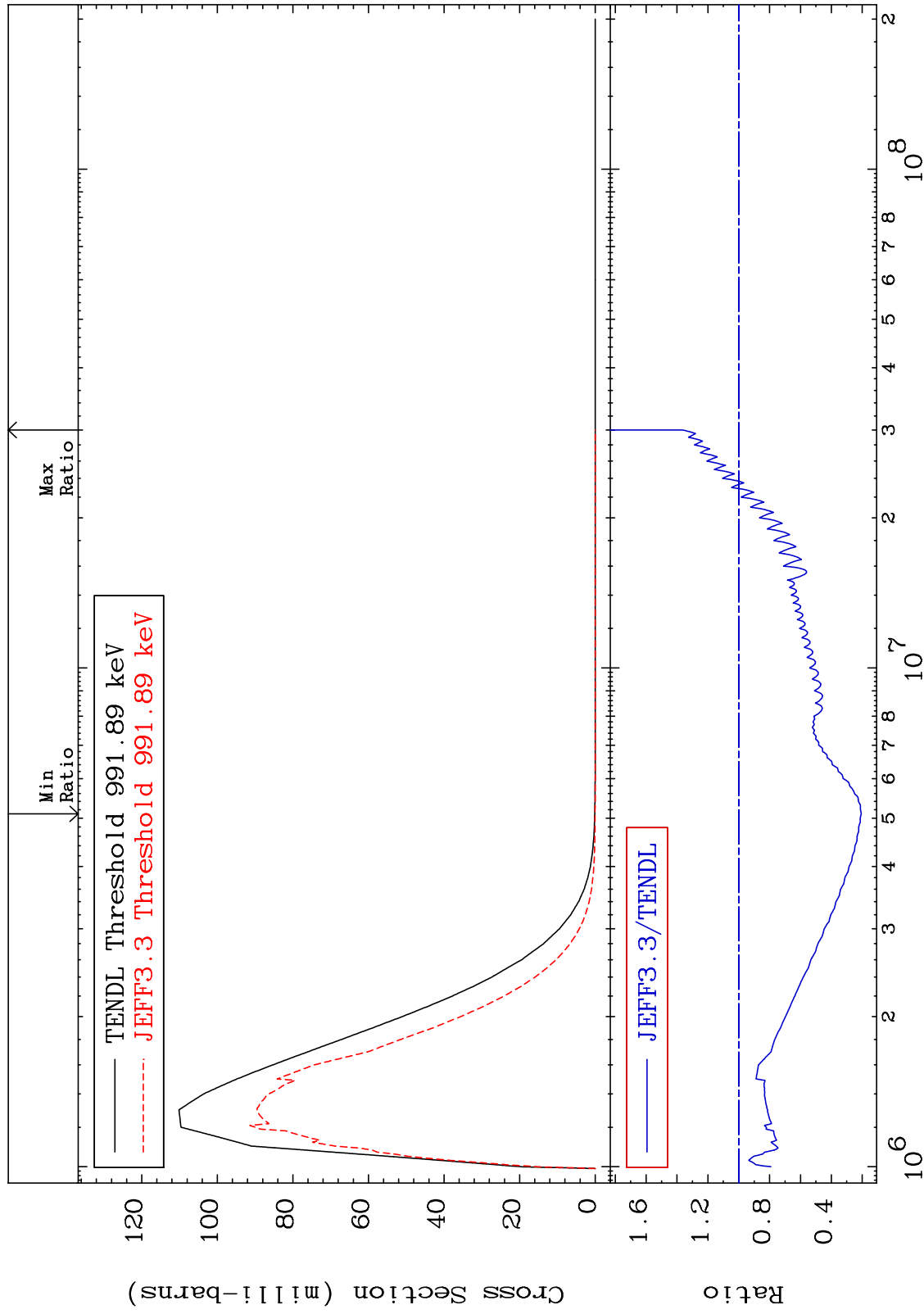
Incident Energy (eV)

92-U -236

MAT 9231

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

92-U -236
-79.44 To 36.31 %



26

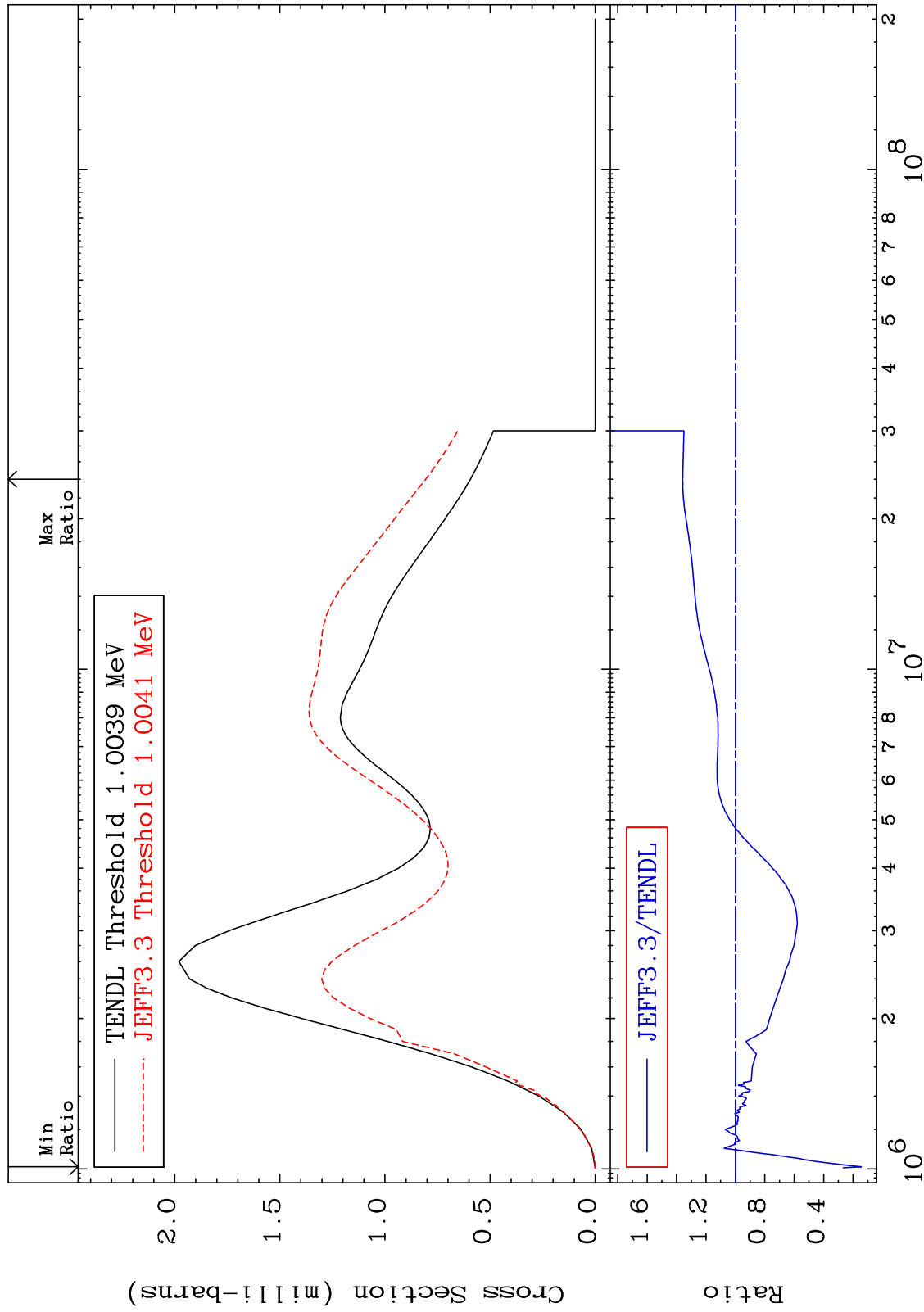
Incident Energy (eV)

92-U -236

MAT 9231

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

92-U -236
-85.63 To 35.86 %



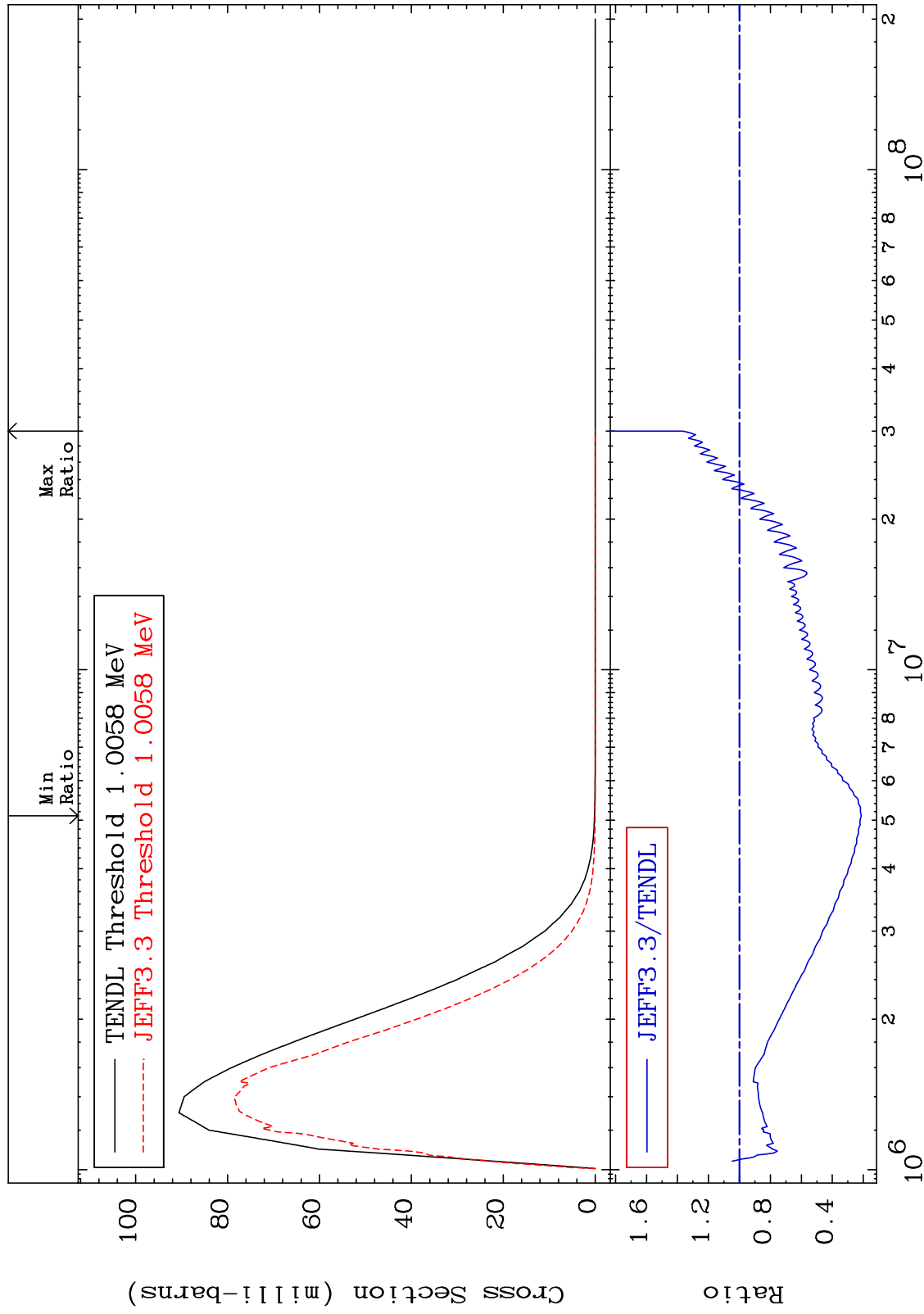
27

92-U -236

MAT 9231

MT= 65 (n,n') Level
Cross Section

92-U -236
-78.73 To 36.64 %

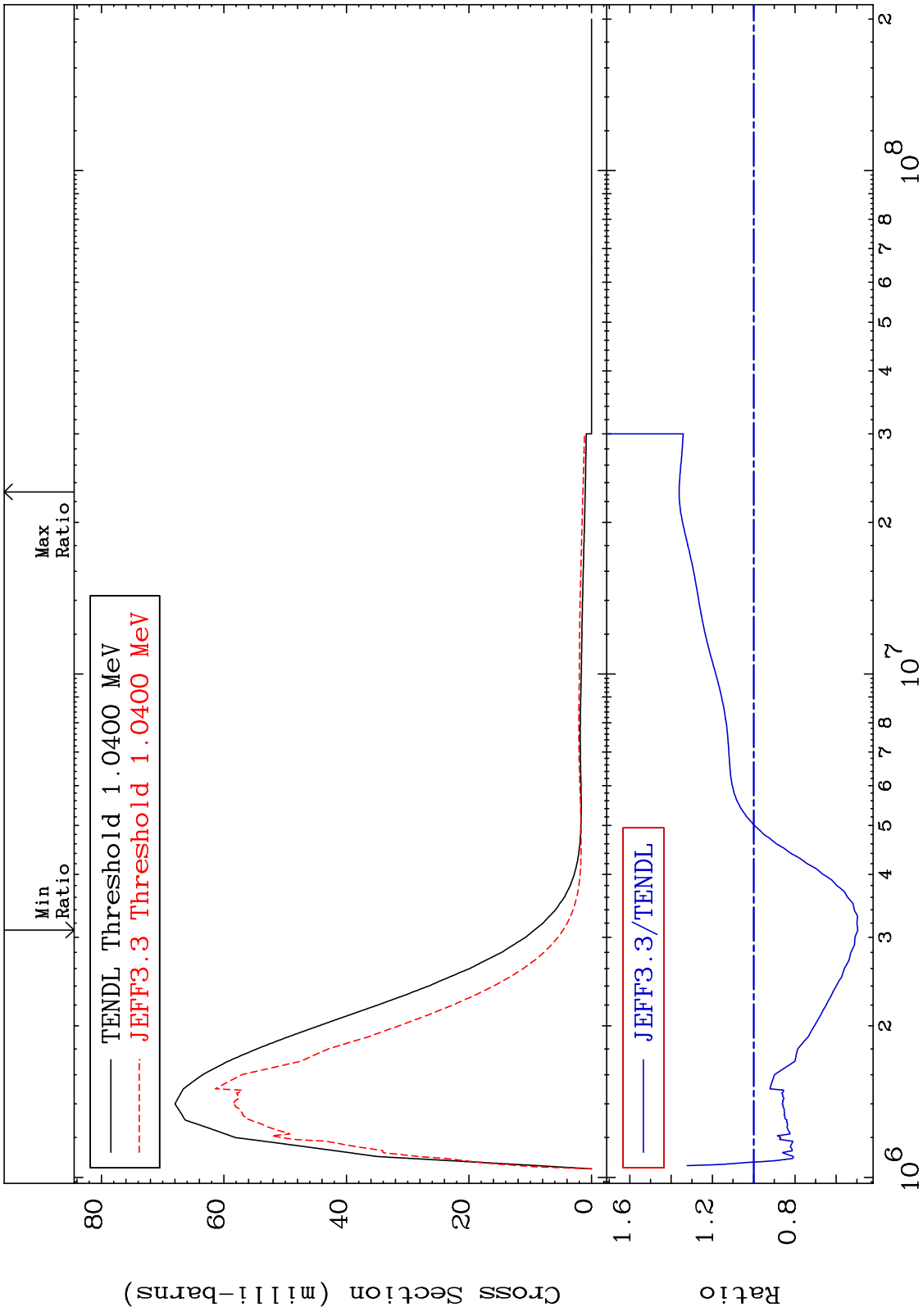


28

Incident Energy (eV)

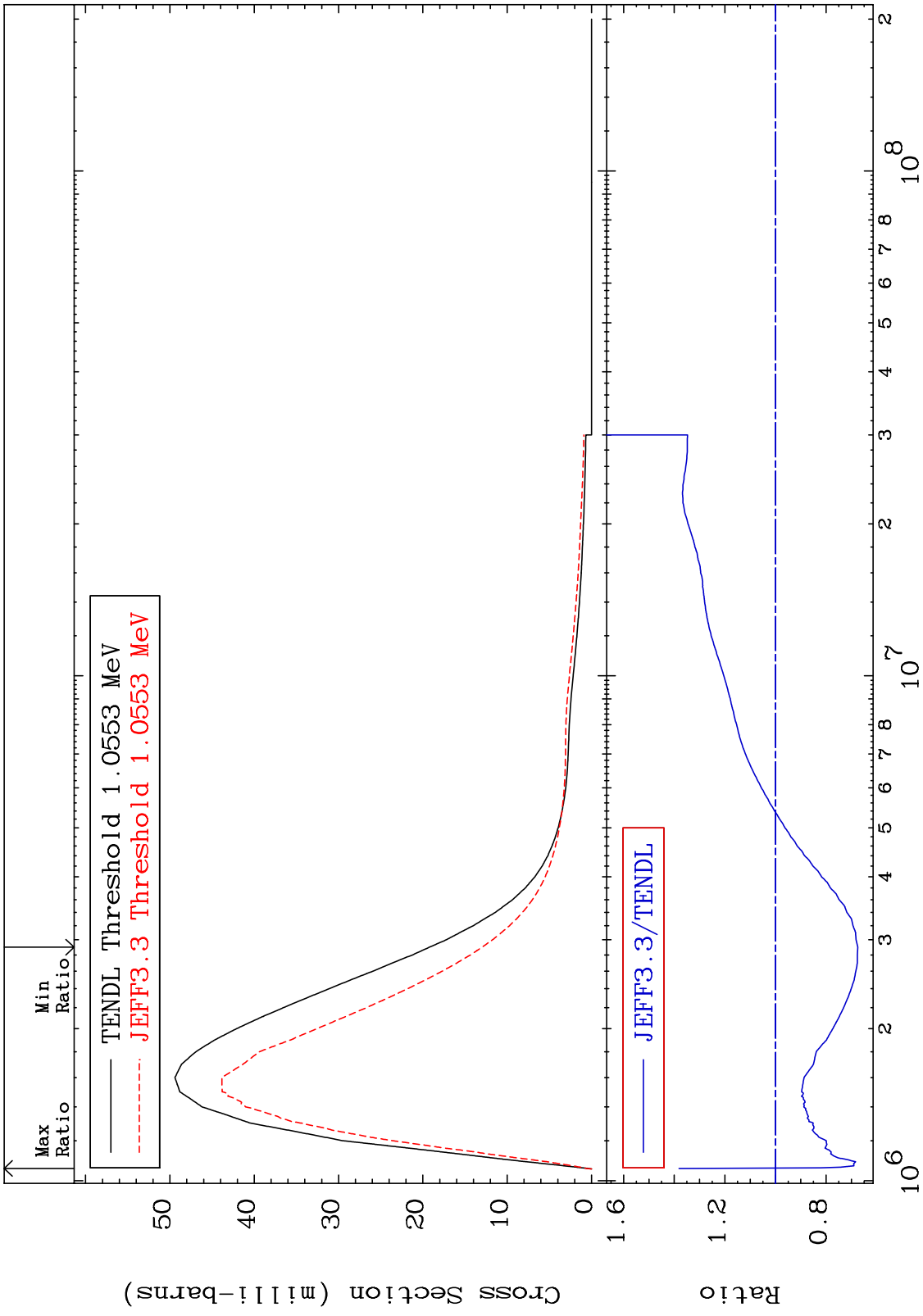
92-U -236

MAT 9231 MT= 66 (n,n') Level Cross Section 92-U -236
 -50.46 To 36.17 %



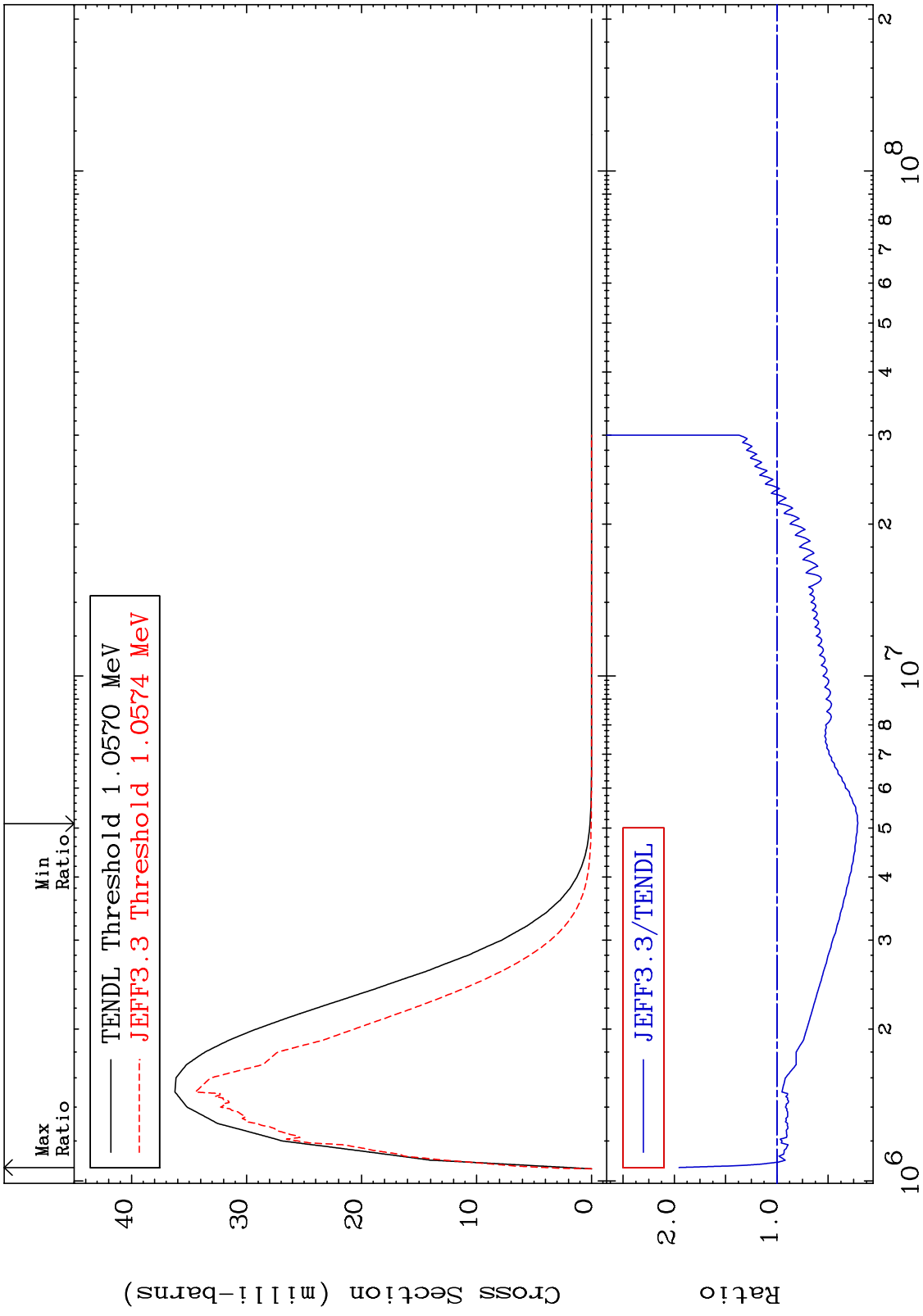
Incident Energy (eV) 92-U -236

MAT 9231 MT= 67 (n,n') Level Cross Section 92-U -236
 -32.52 To 38.11 %

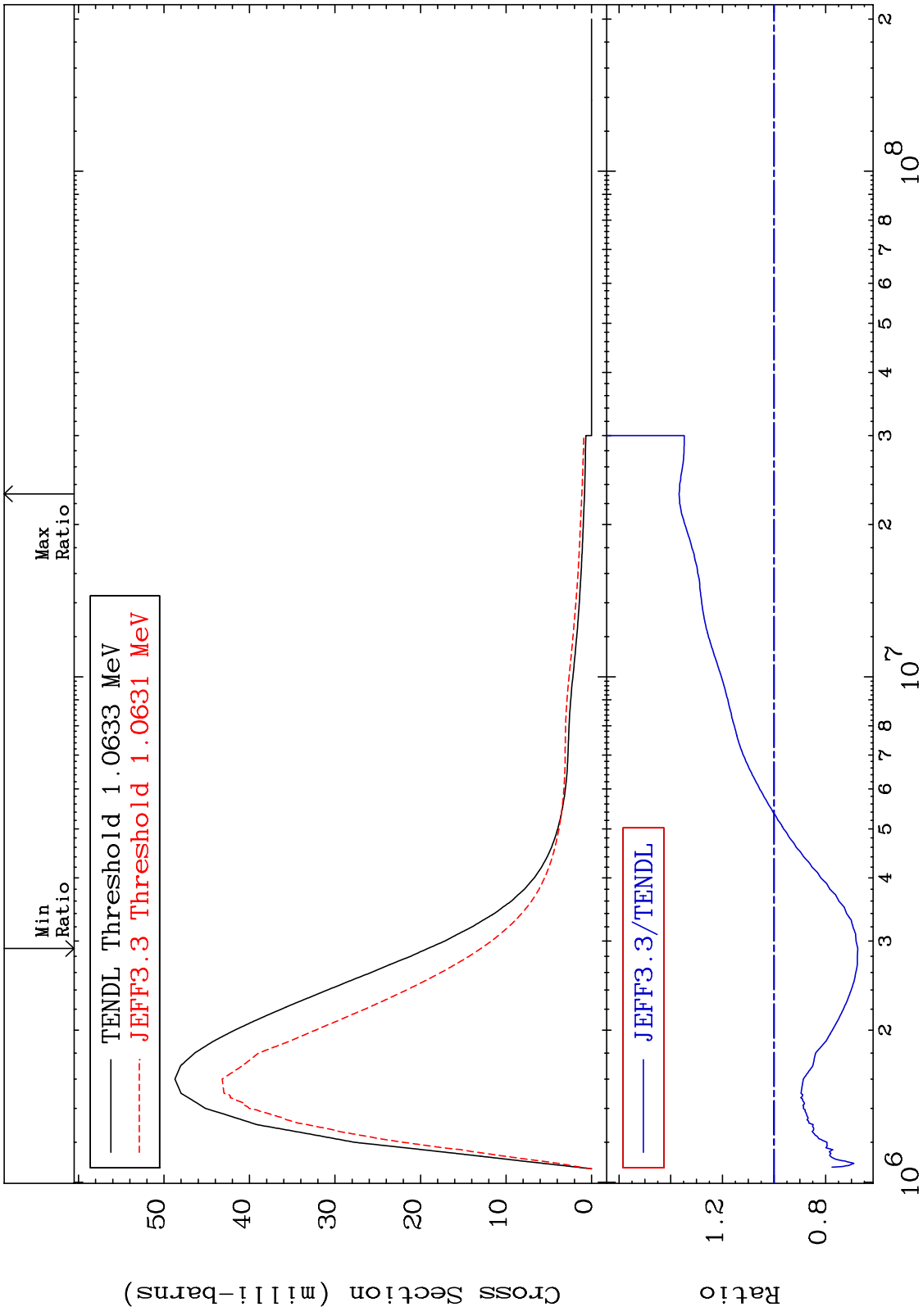


30 10⁶ 10⁷ 10⁸ 2 92-U -236

MAT 9231 MT= 68 (n,n') Level Cross Section 92-U -236
 -79.00 To 95.42 %

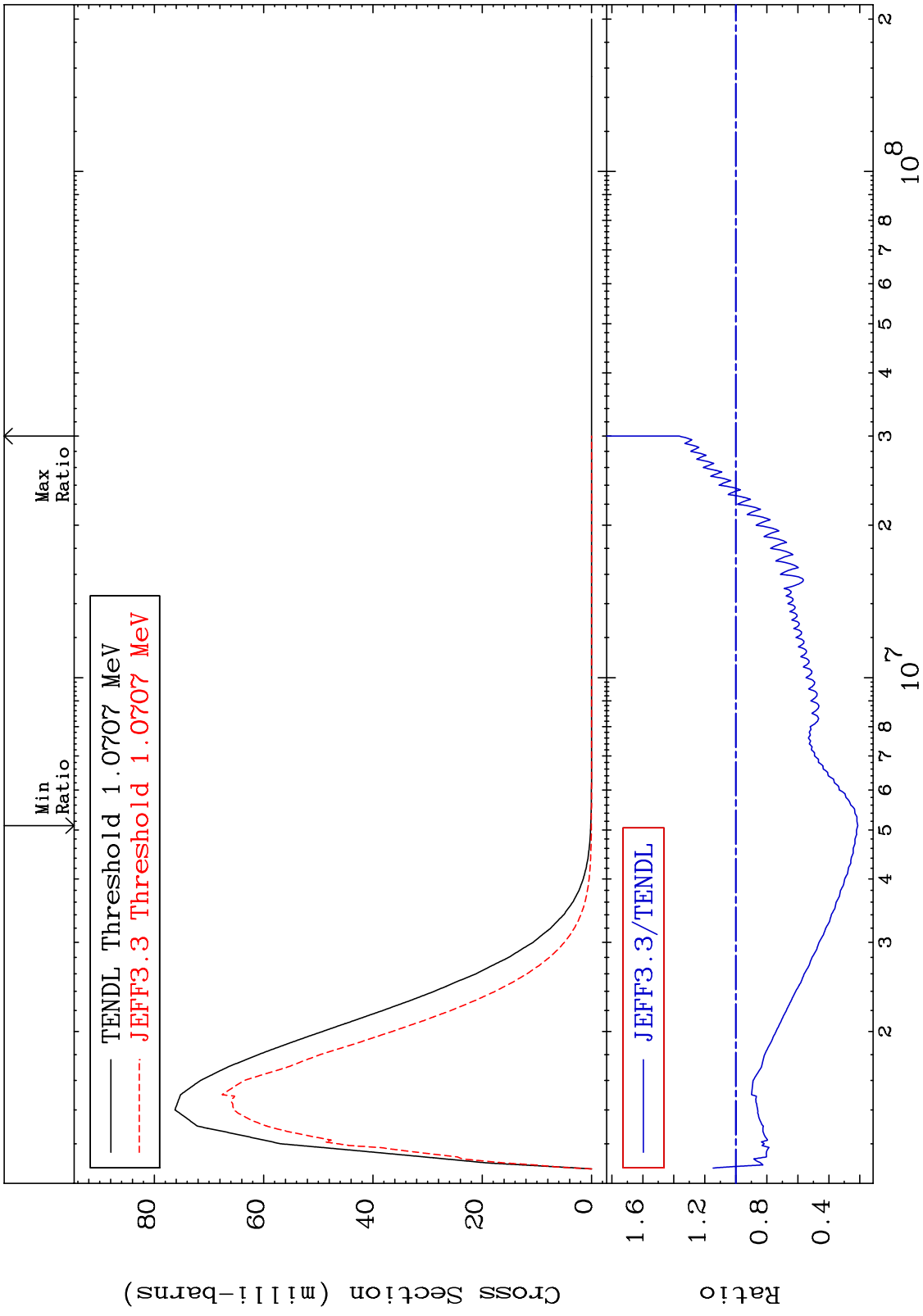


MAT 9231 MT= 69 (n,n') Level Cross Section 92-U -236
 -32.48 To 36.79 %

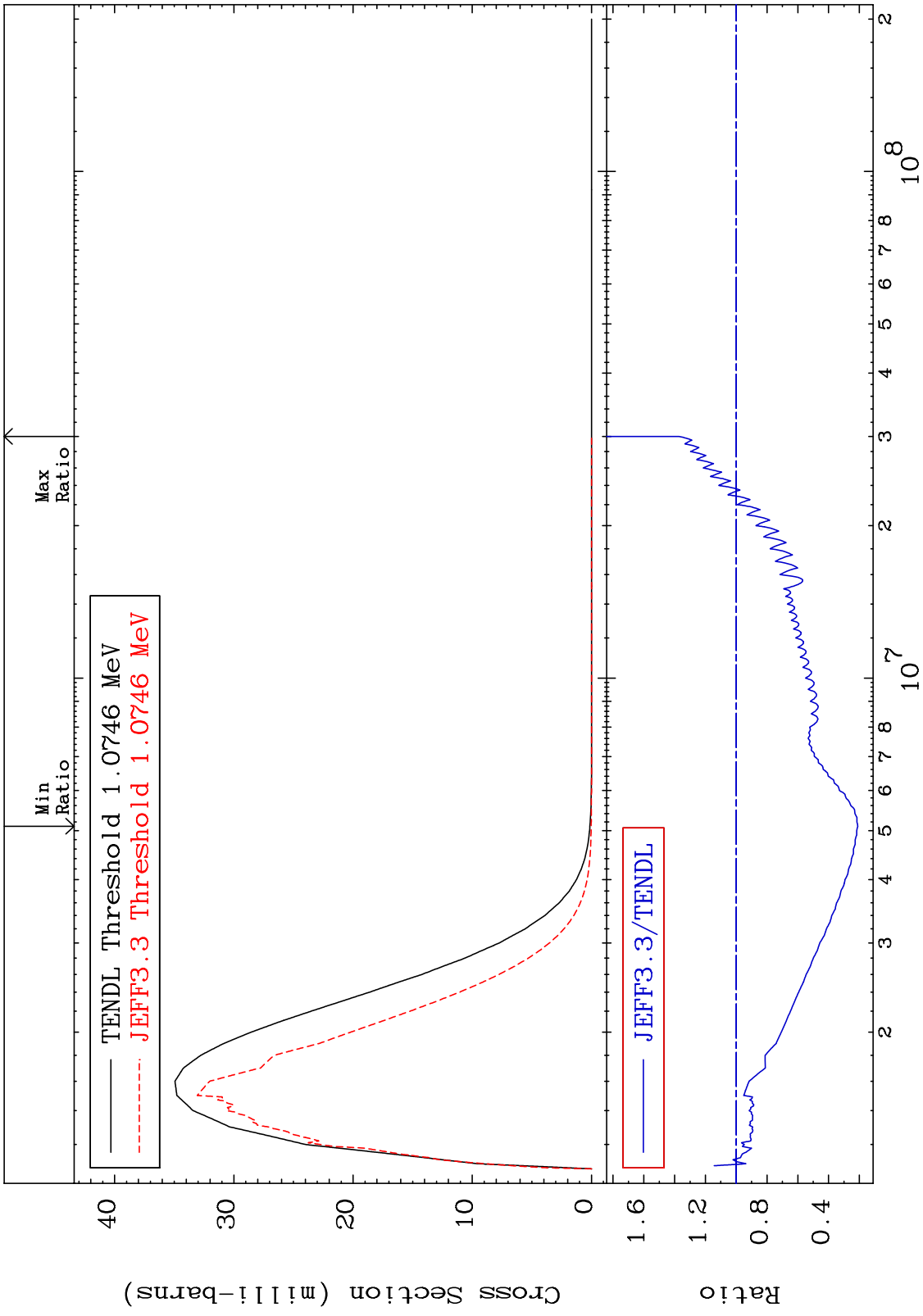


Incident Energy (eV) 92-U -236

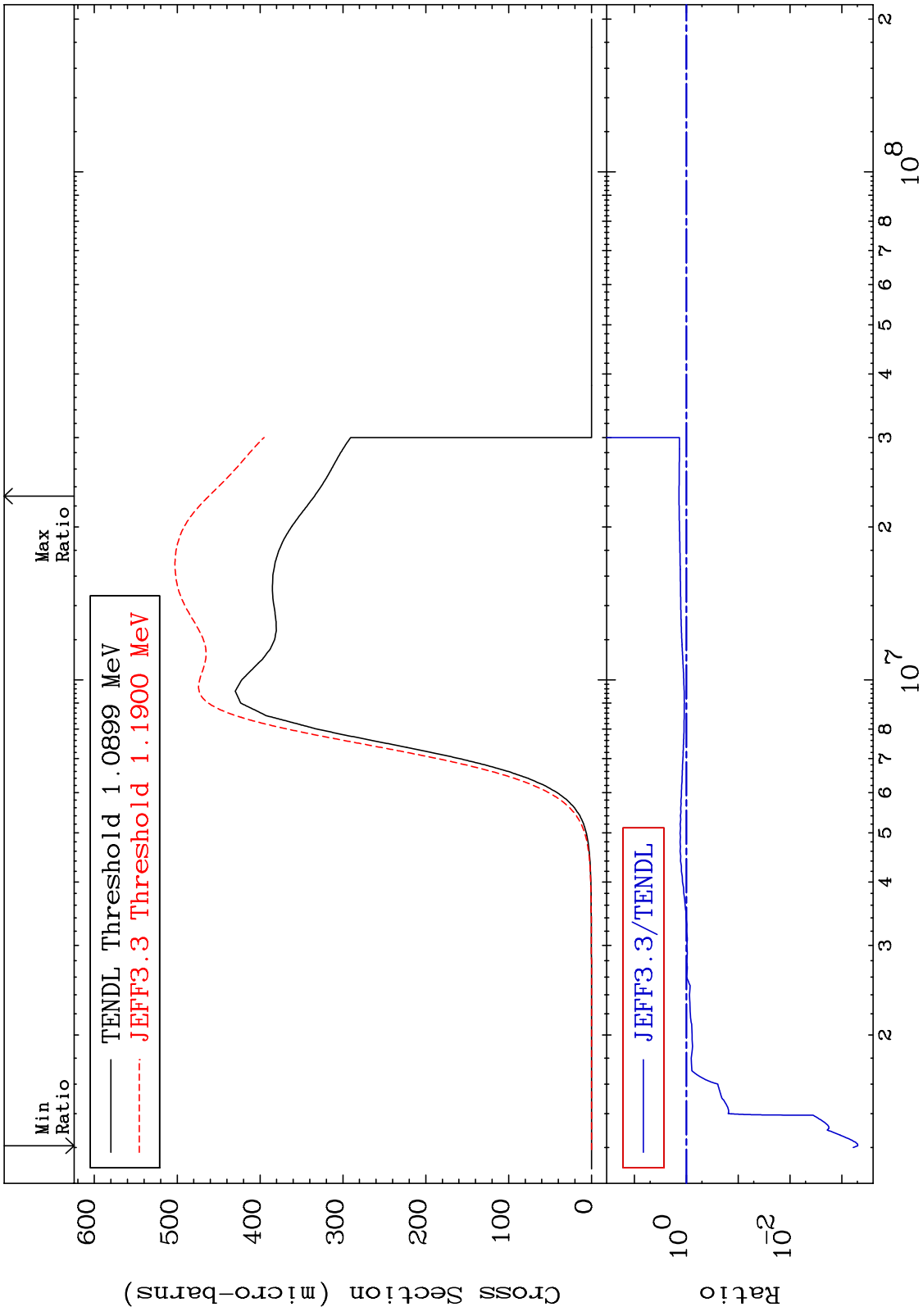
MAT 9231 MT= 70 (n,n') Level Cross Section 92-U -236
 -78.71 To 36.62 %



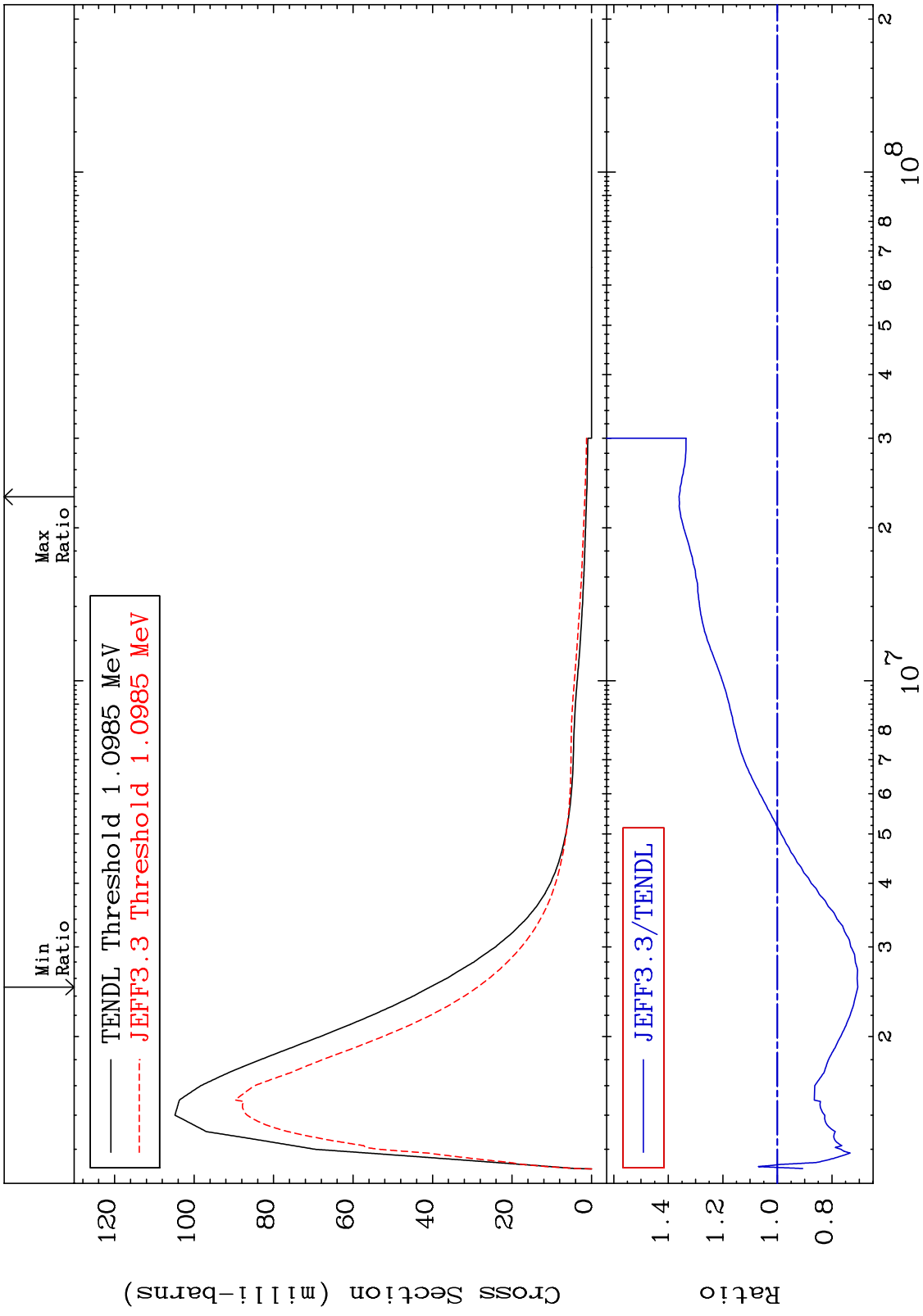
MAT 9231 MT= 71 (n,n') Level Cross Section 92-U -236
 -79.00 To 37.13 %



MAT 9231 MT= 72 (n,n') Level Cross Section 92-U -236
 -99.95 To 38.16 %



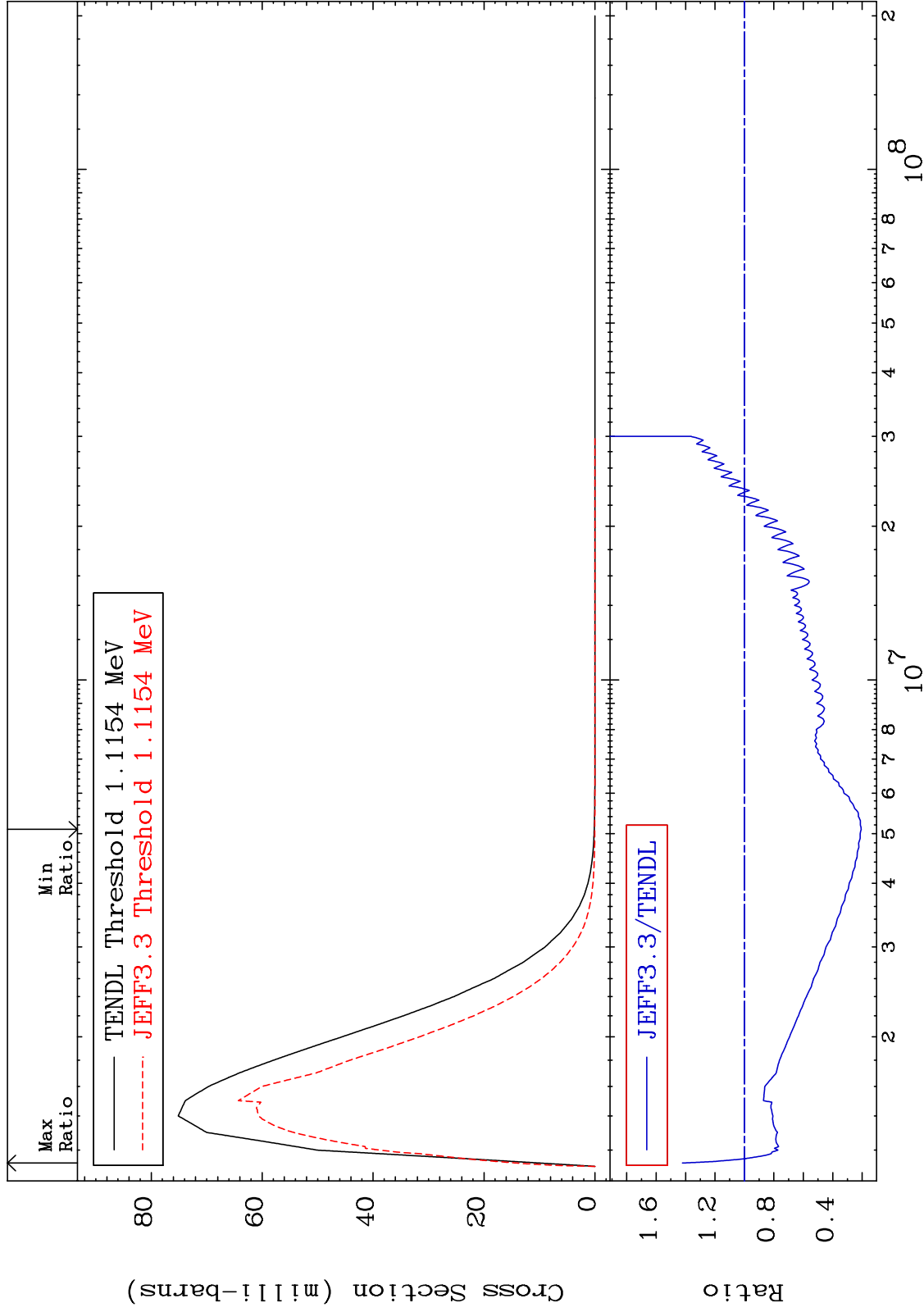
MAT 9231 MT= 73 (n,n') Level Cross Section 92-U -236
 -29.50 To 36.06 %



MAT 9231

MT= 75 (n,n') Level
Cross Section

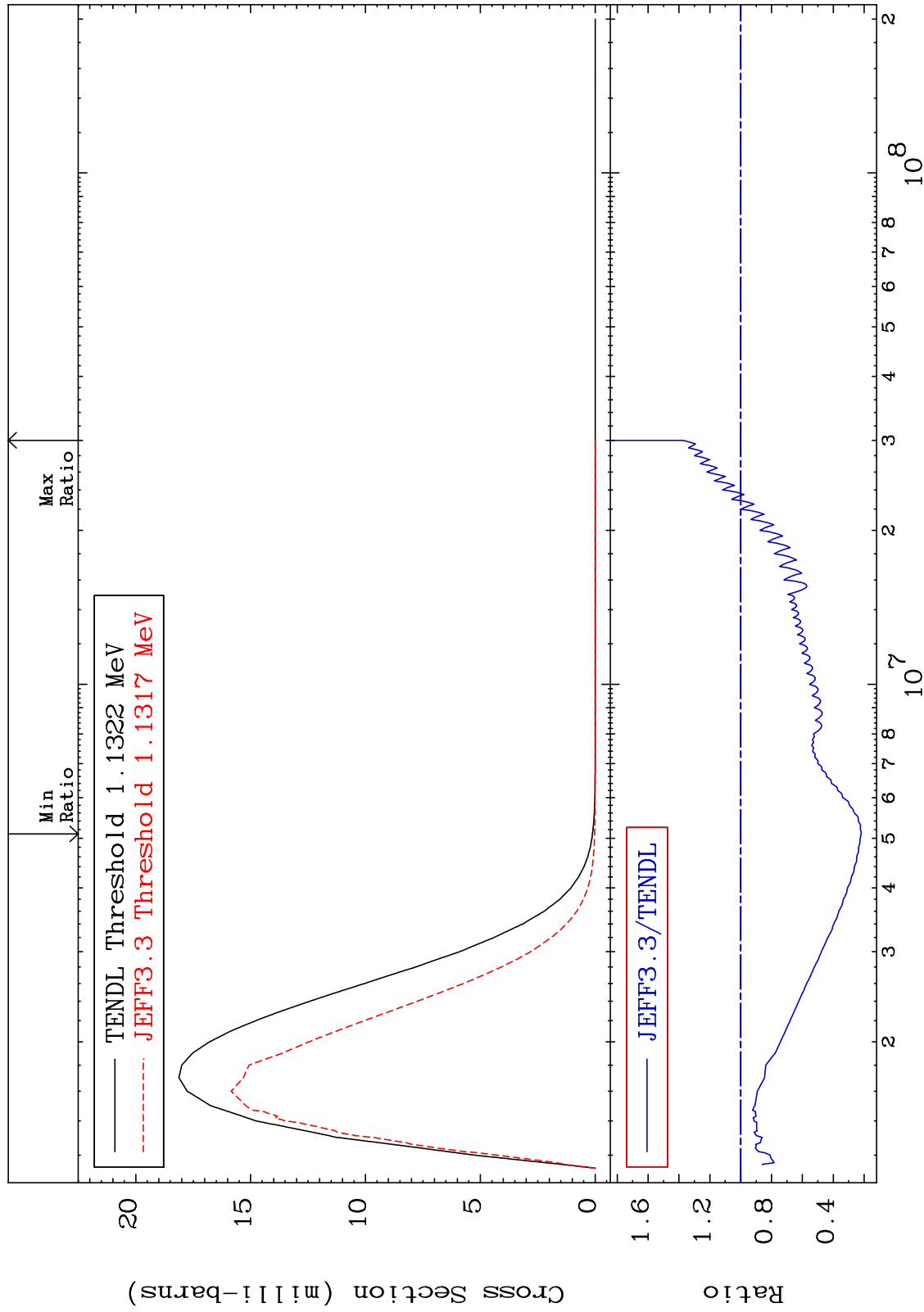
92-U -236
-79.41 To 42.11 %



MAT 9231

MT= 76 (n,n') Level
Cross Section

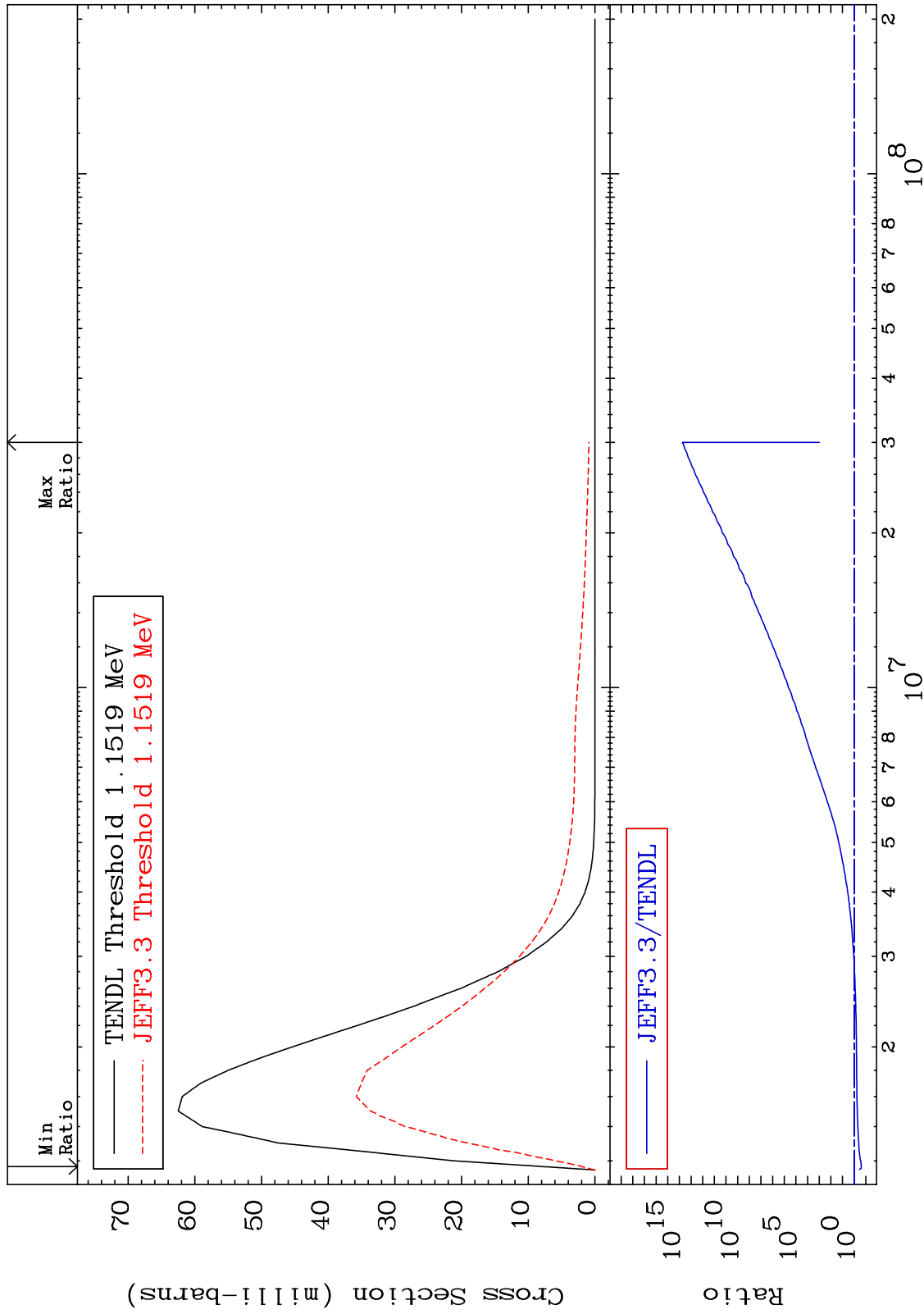
92-U -236
-78.19 To 37.60 %



MAT 9231

MT= 77 (n,n') Level
Cross Section

92-U -236
-75.46 To 9999. %

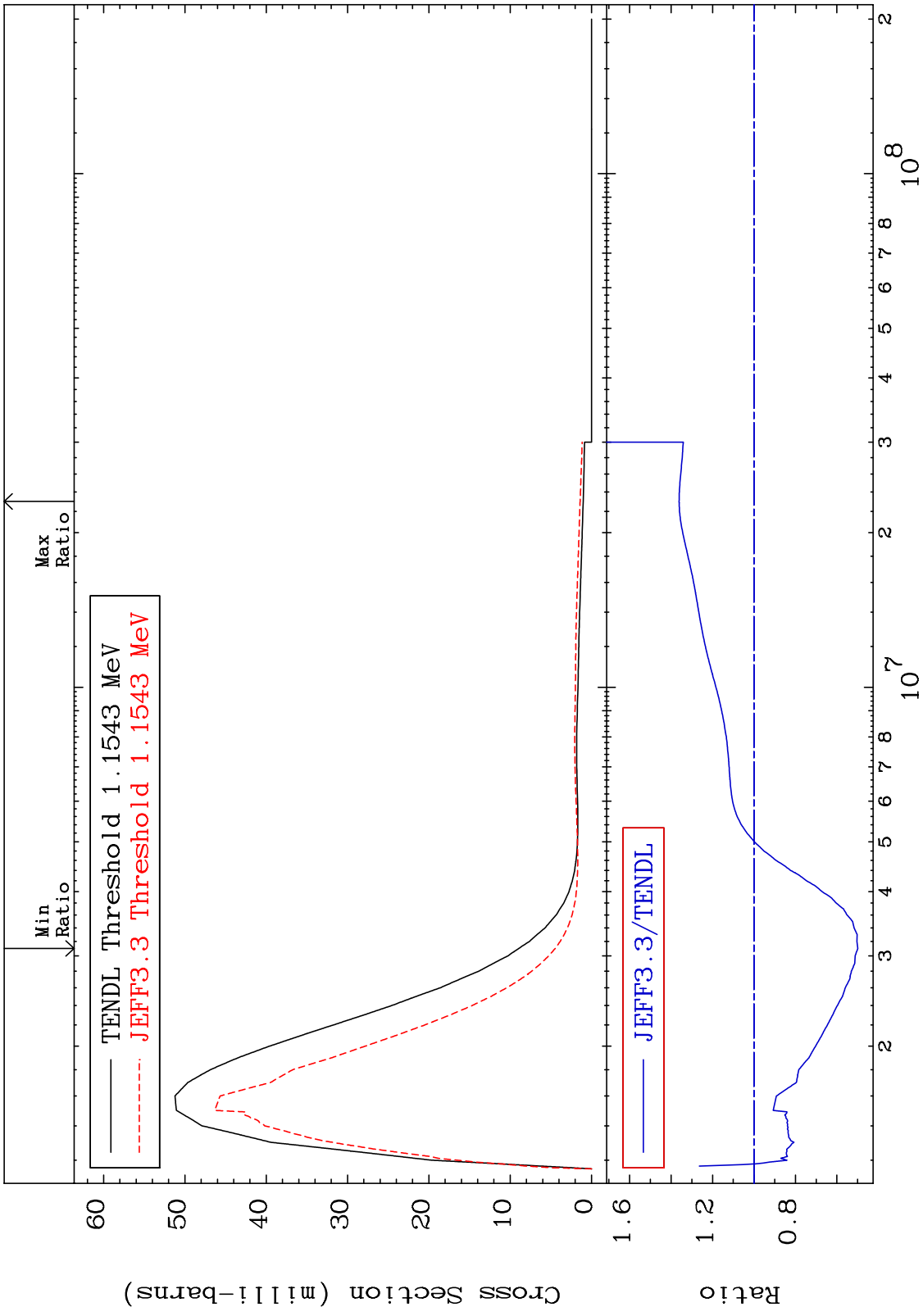


40

Incident Energy (eV)

92-U -236

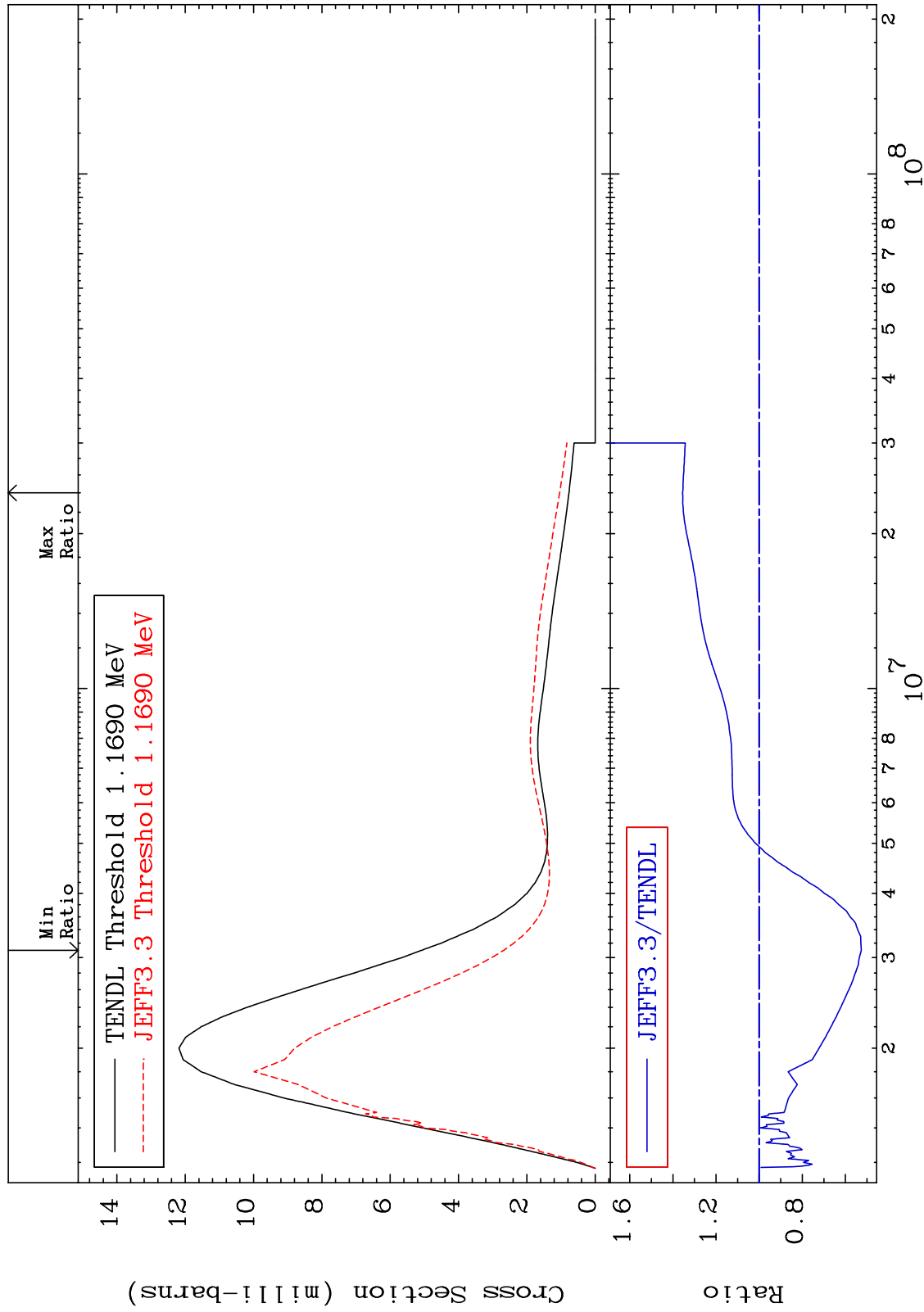
MAT 9231 MT= 78 (n,n') Level Cross Section 92-U -236
 -50.10 To 36.16 %



MAT 9231

MT= 79 (n,n') Level
Cross Section

92-U -236
-47.38 To 35.47 %



42

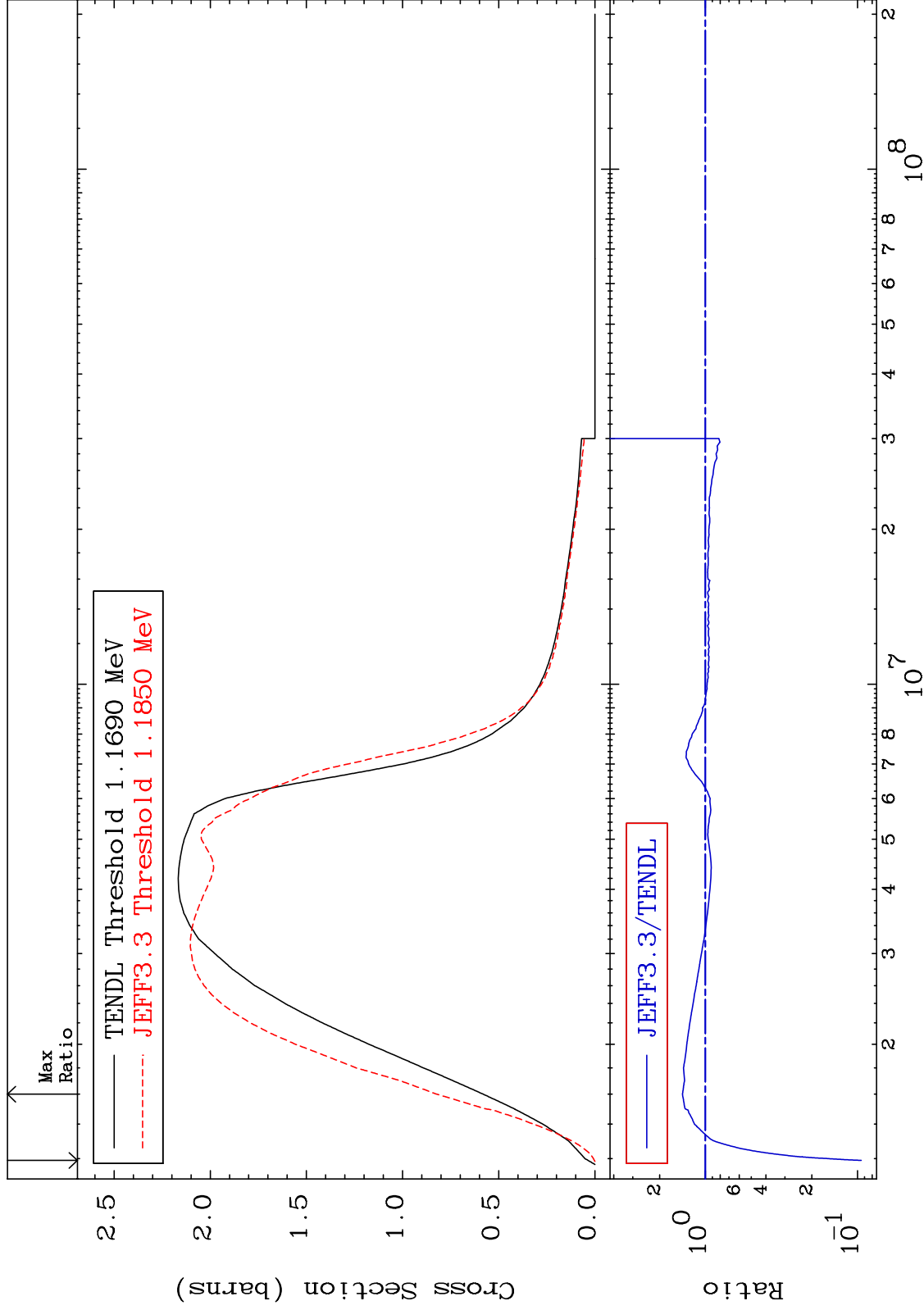
Incident Energy (eV)

92-U -236

MAT 9231

(n, n') Continuum
Cross Section

92-U -236
-90.56 To 41.51 %

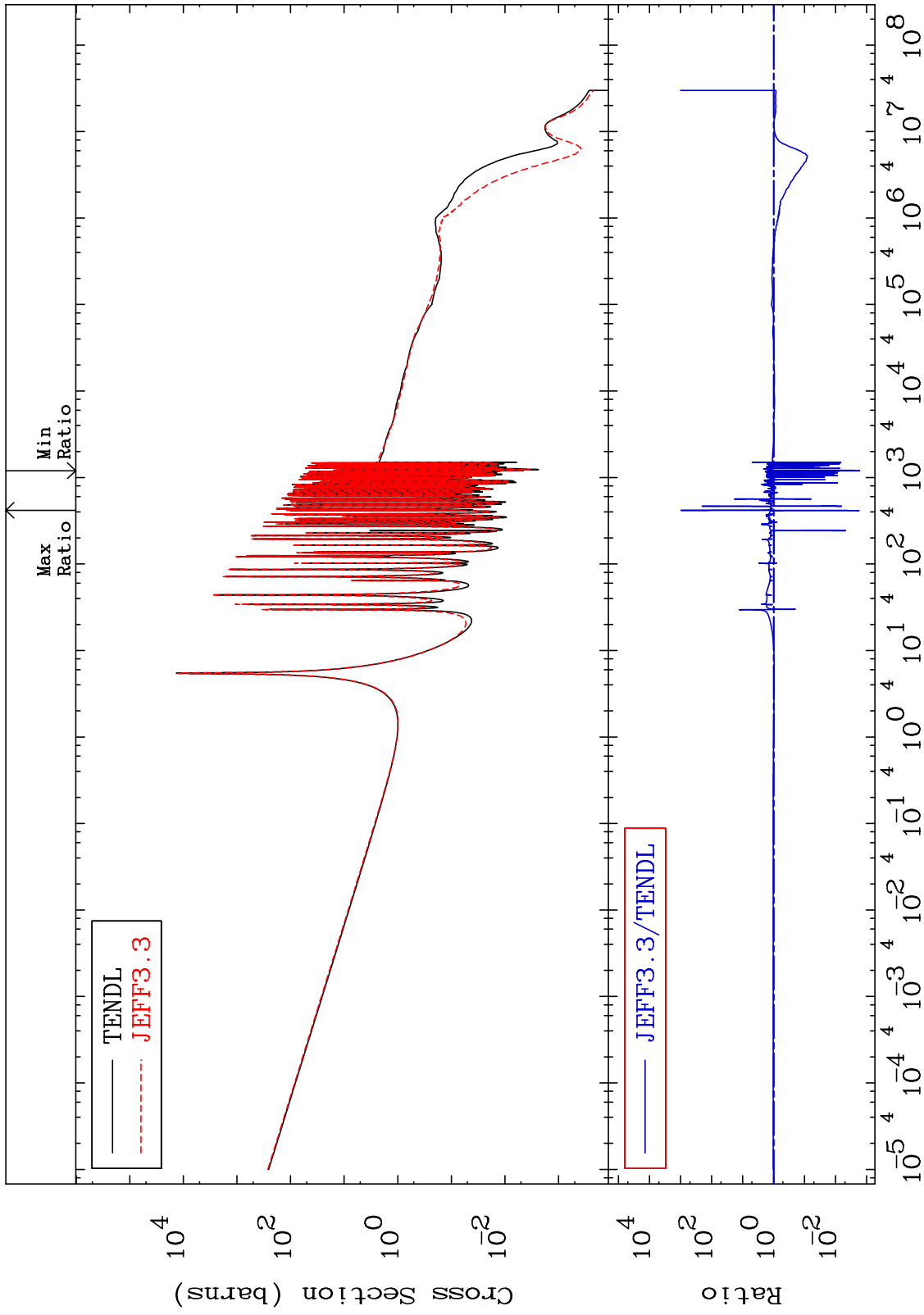


MAT 9231

(n, γ)
Cross Section

92-U -236

-99.83 To 9999. %



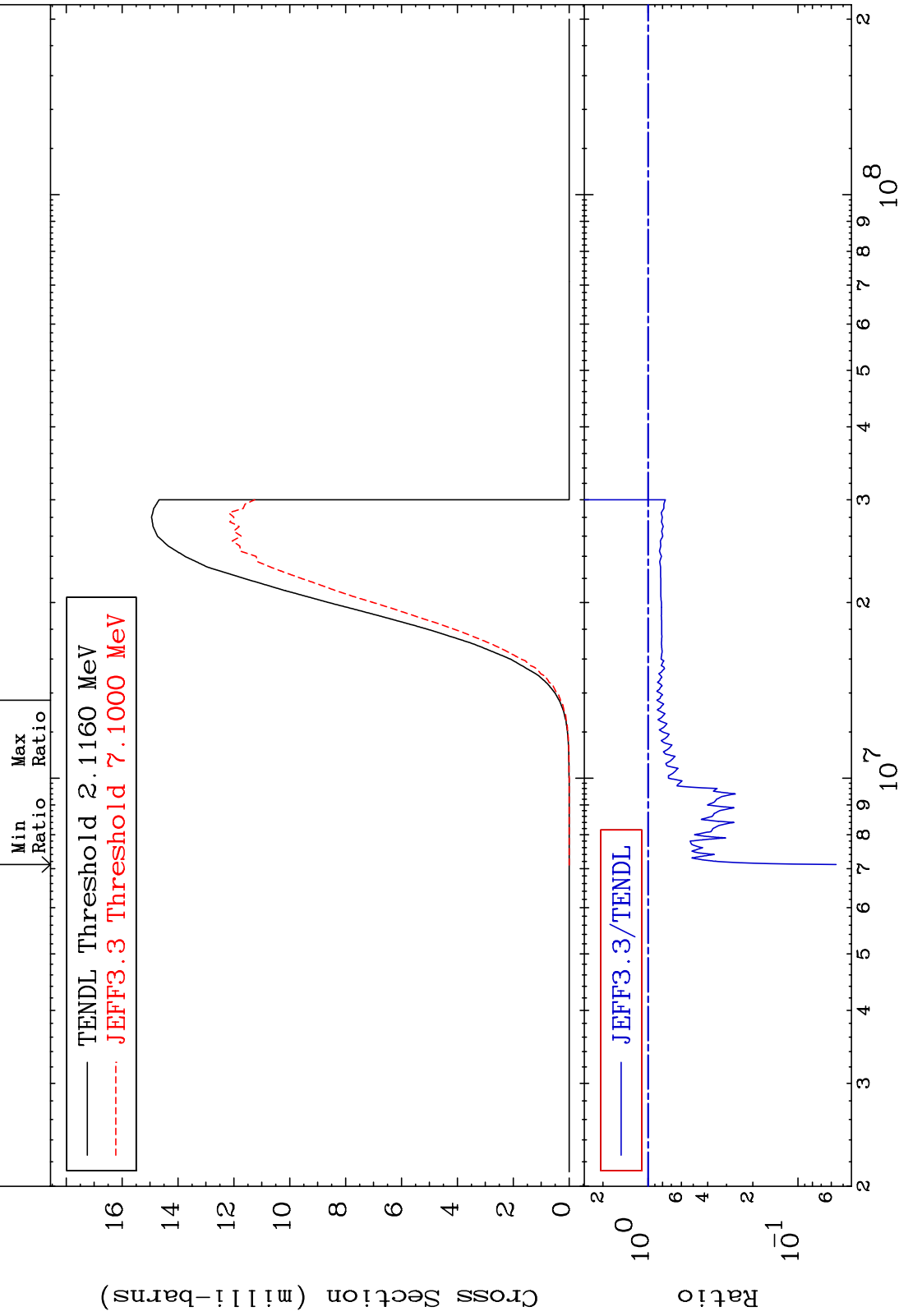
MAT 9231

(n,p)

92-U -236

Cross Section

-94.44 To -12.73%



45

Incident Energy (eV)

92-U -236

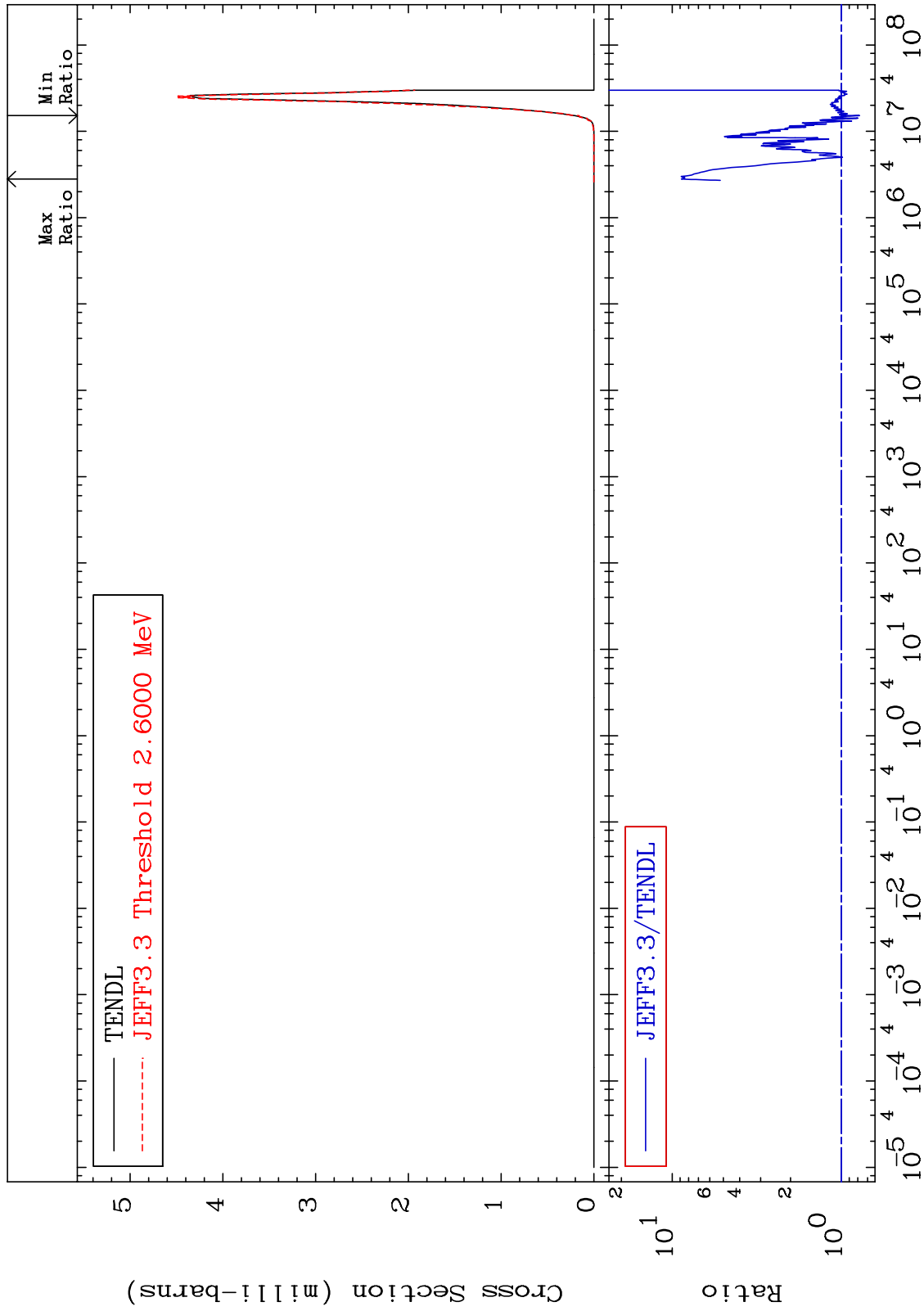
MAT 9231

(n, α)

92-U -236

Cross Section

-22.07 To 785.0 %



46

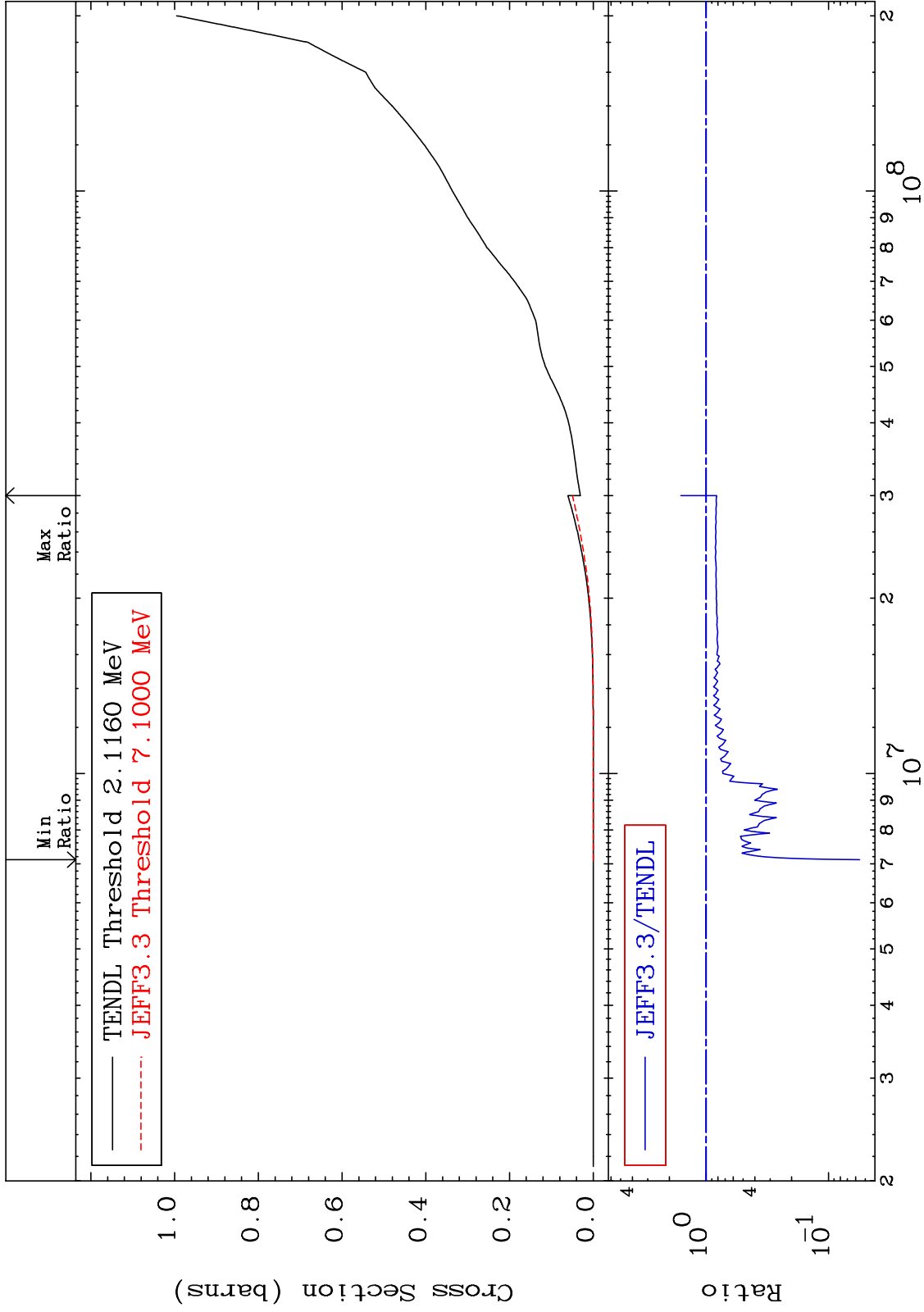
Incident Energy (eV)

92-U -236

MAT 9231

Hydrogen Production
Cross Section

92-U -236
-94.44 To 61.11 %



47

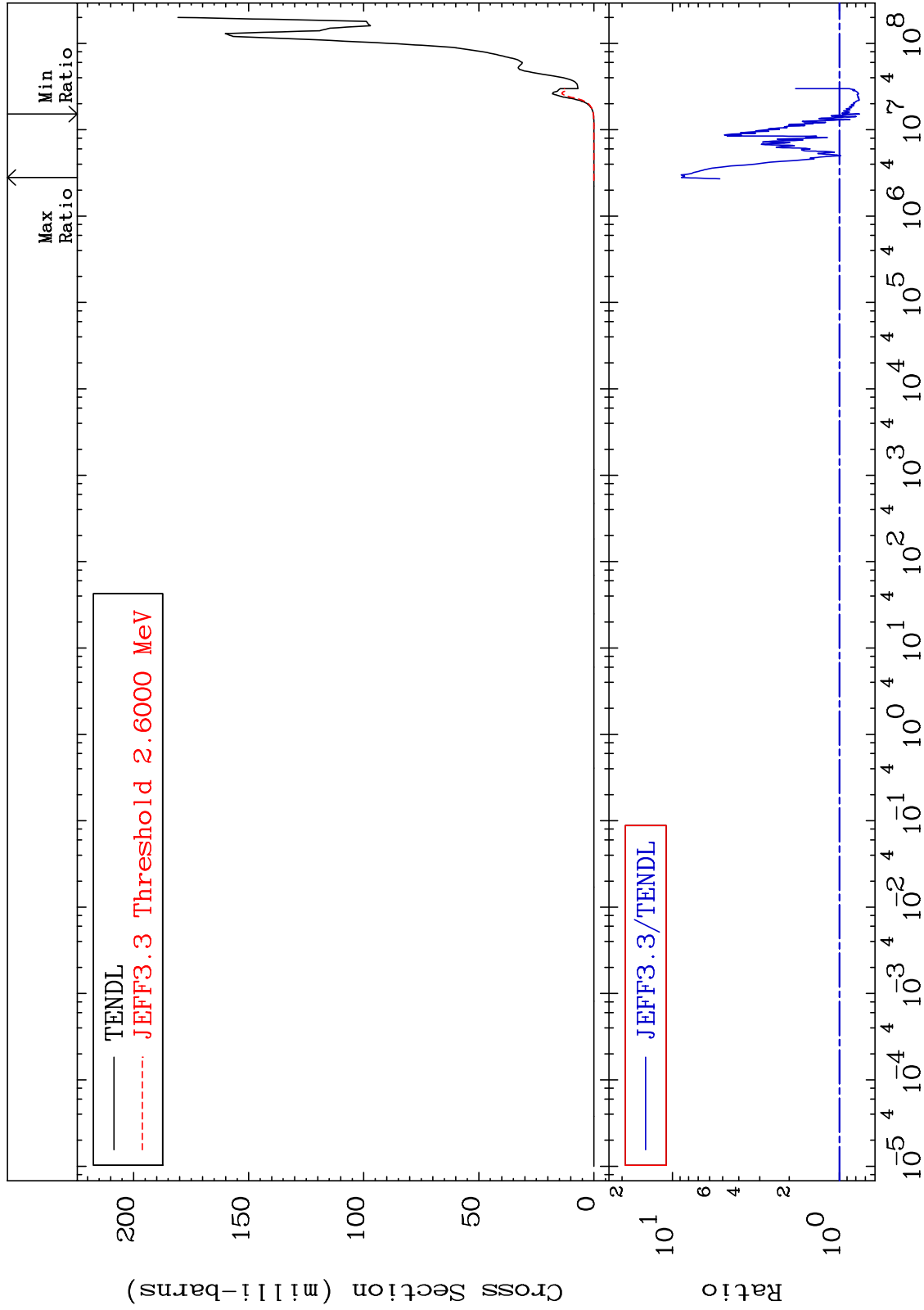
Incident Energy (eV)

92-U -236

MAT 9231

He-4 Production
Cross Section

92-U -236
-24.34 To 785.0 %

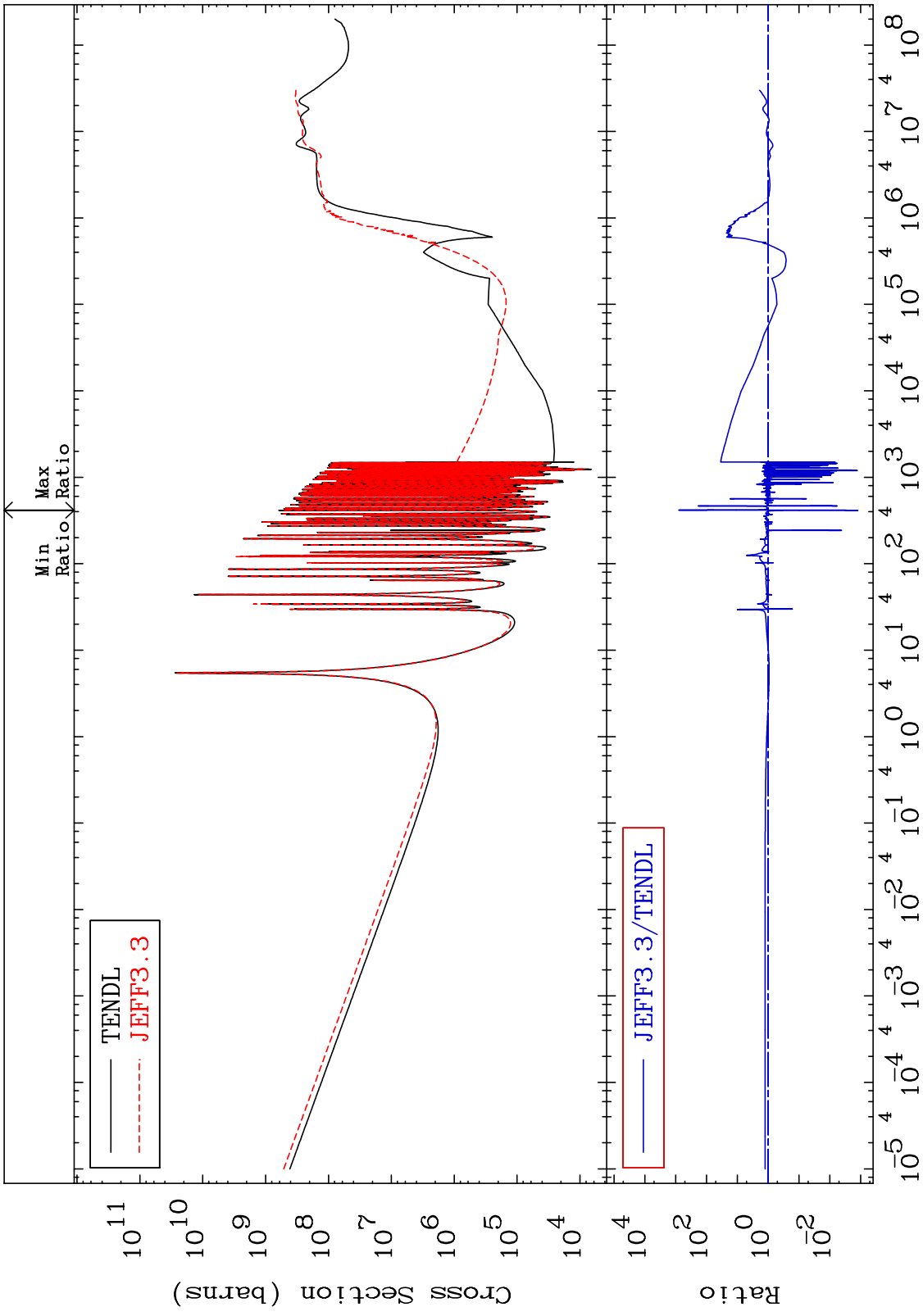


48

Incident Energy (eV)

92-U -236

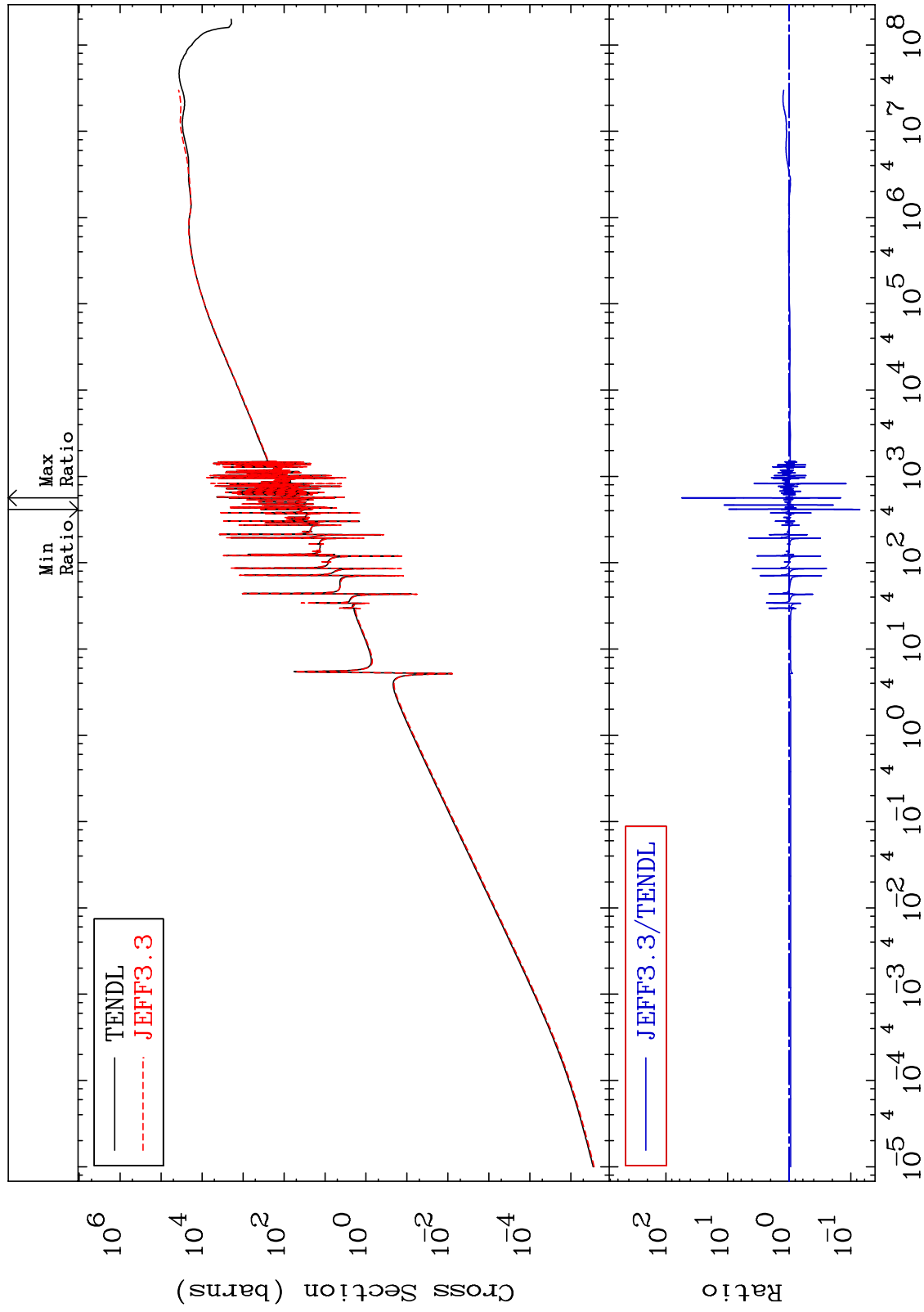
MAT 9231 Kerma total (eV-barns) 92-U -236
 Cross Section -99.88 To 9999. %



MAT 9231

Kerma elastic
Cross Section

92-U -236
-92.86 To 5494. %



50

Incident Energy (eV)

92-U -236

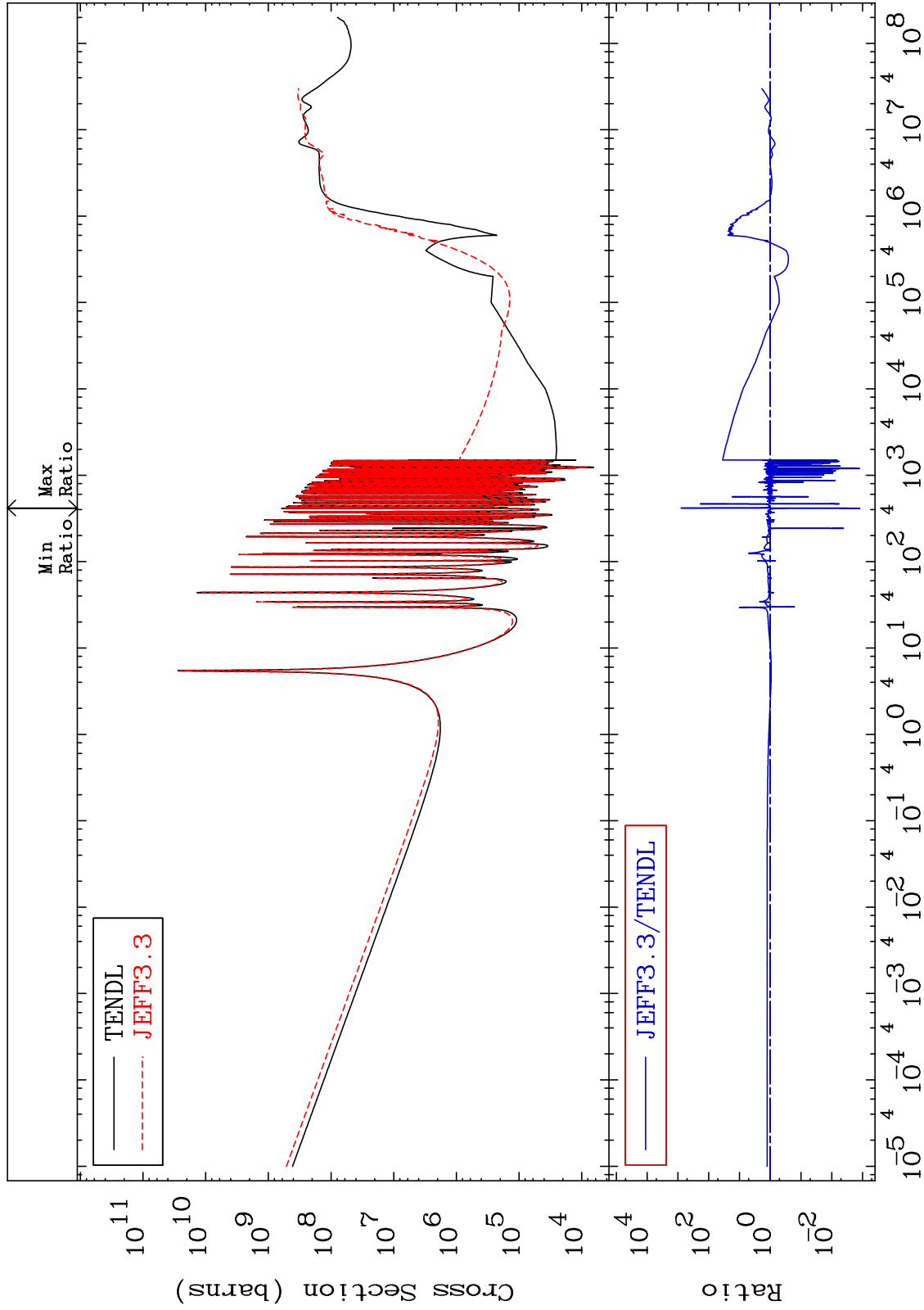
MAT 9231

Kerma non-elastic (all but mt2)

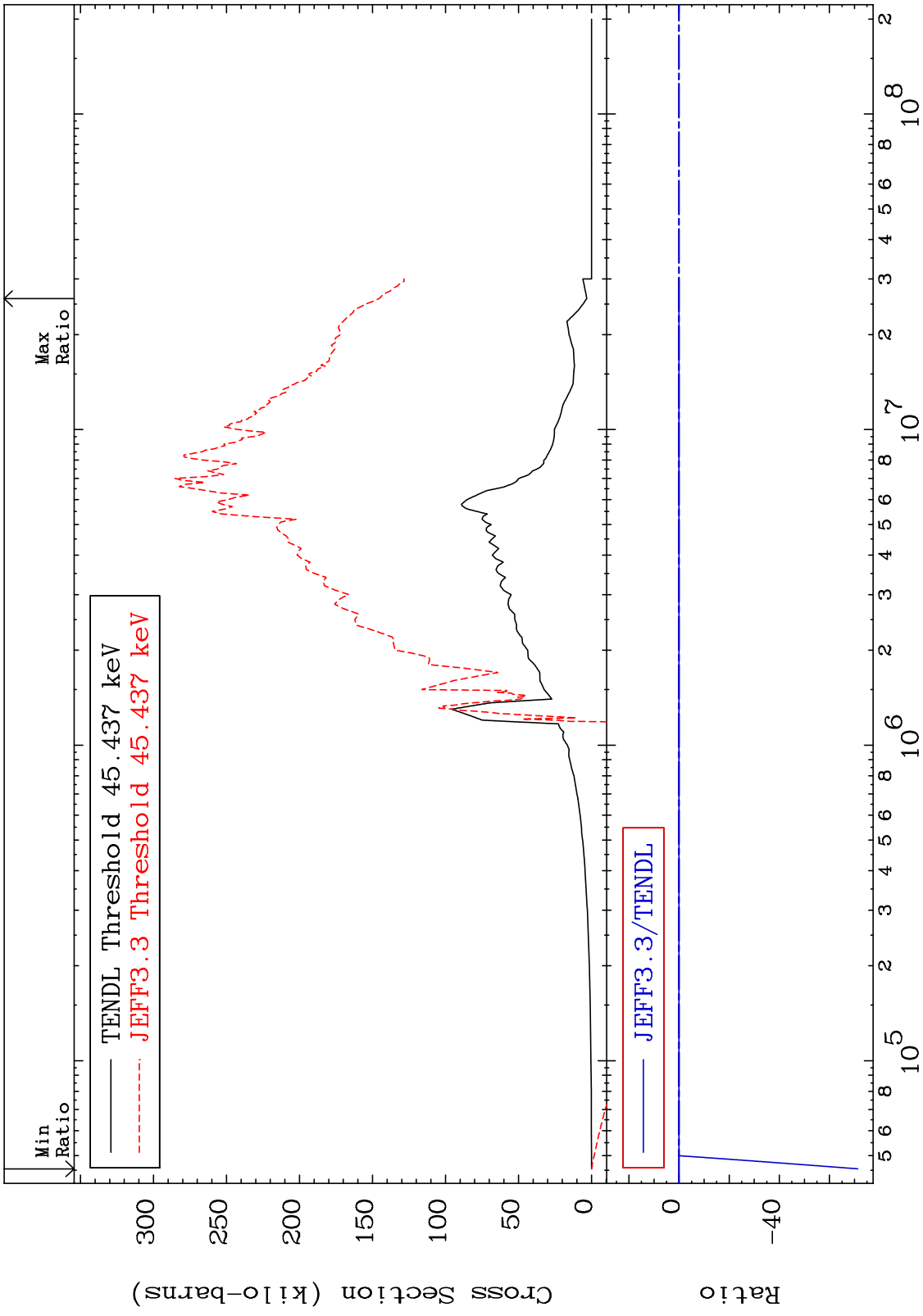
92-U -236

-99.88 To 9999. %

Cross Section



MAT 9231 Kerma inelastic (mt51-91) 92-U -236
 -9999. To 4383. %
 Cross Section

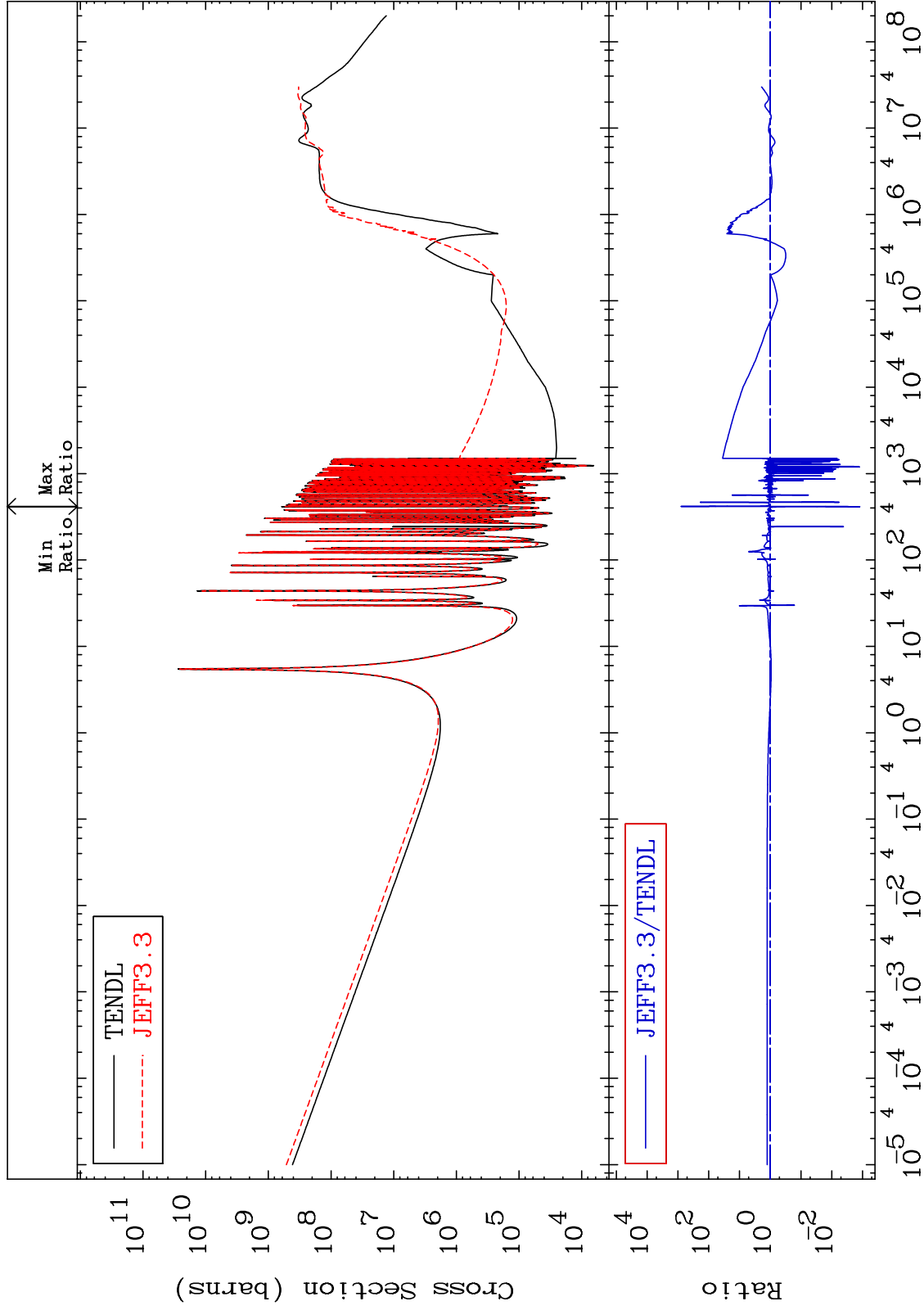


52 Incident Energy (eV) 92-U -236

MAT 9231

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

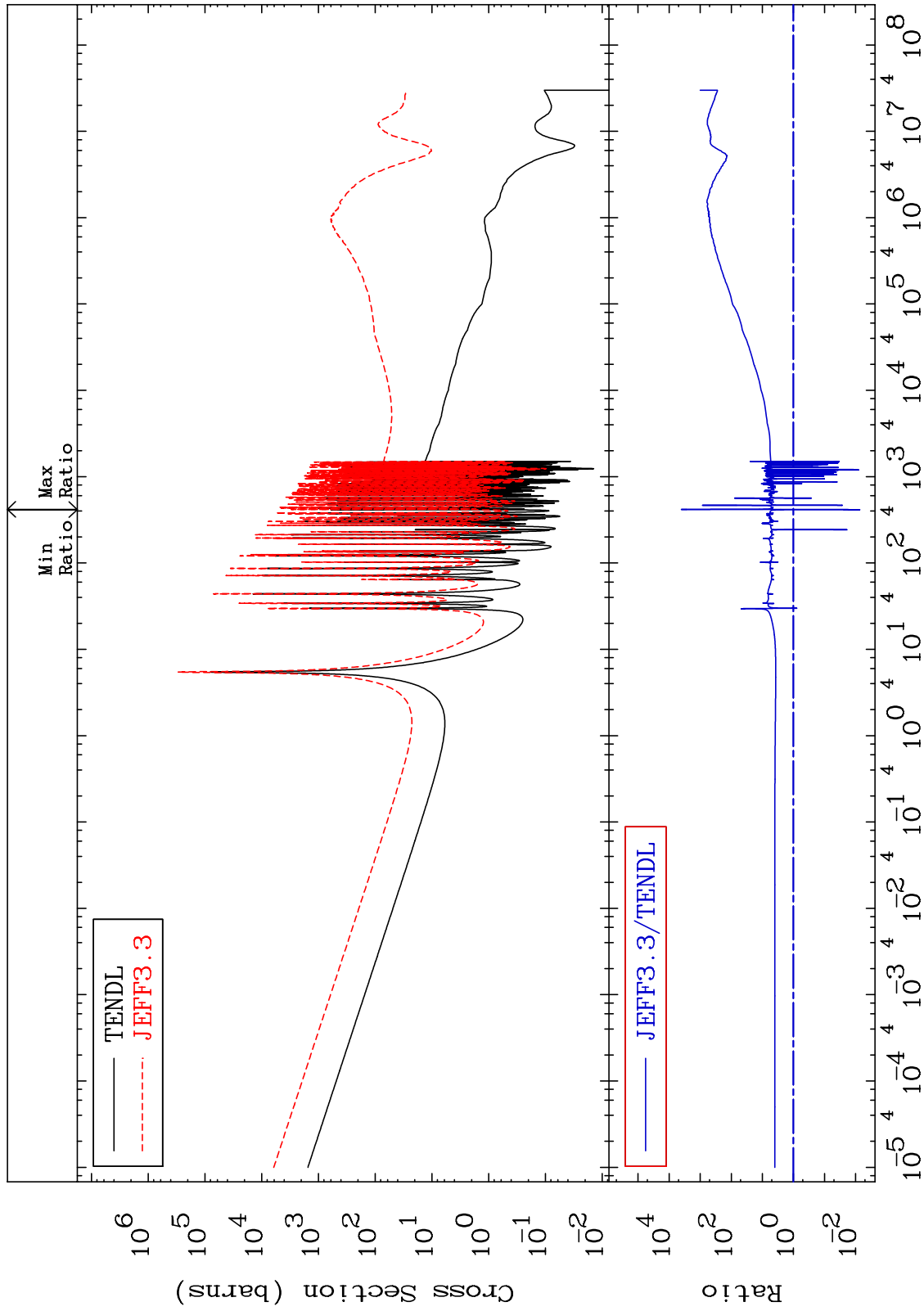
92-U -236
-99.88 To 9999. %



MAT 9231

Kerma capture (mt102)
Cross Section

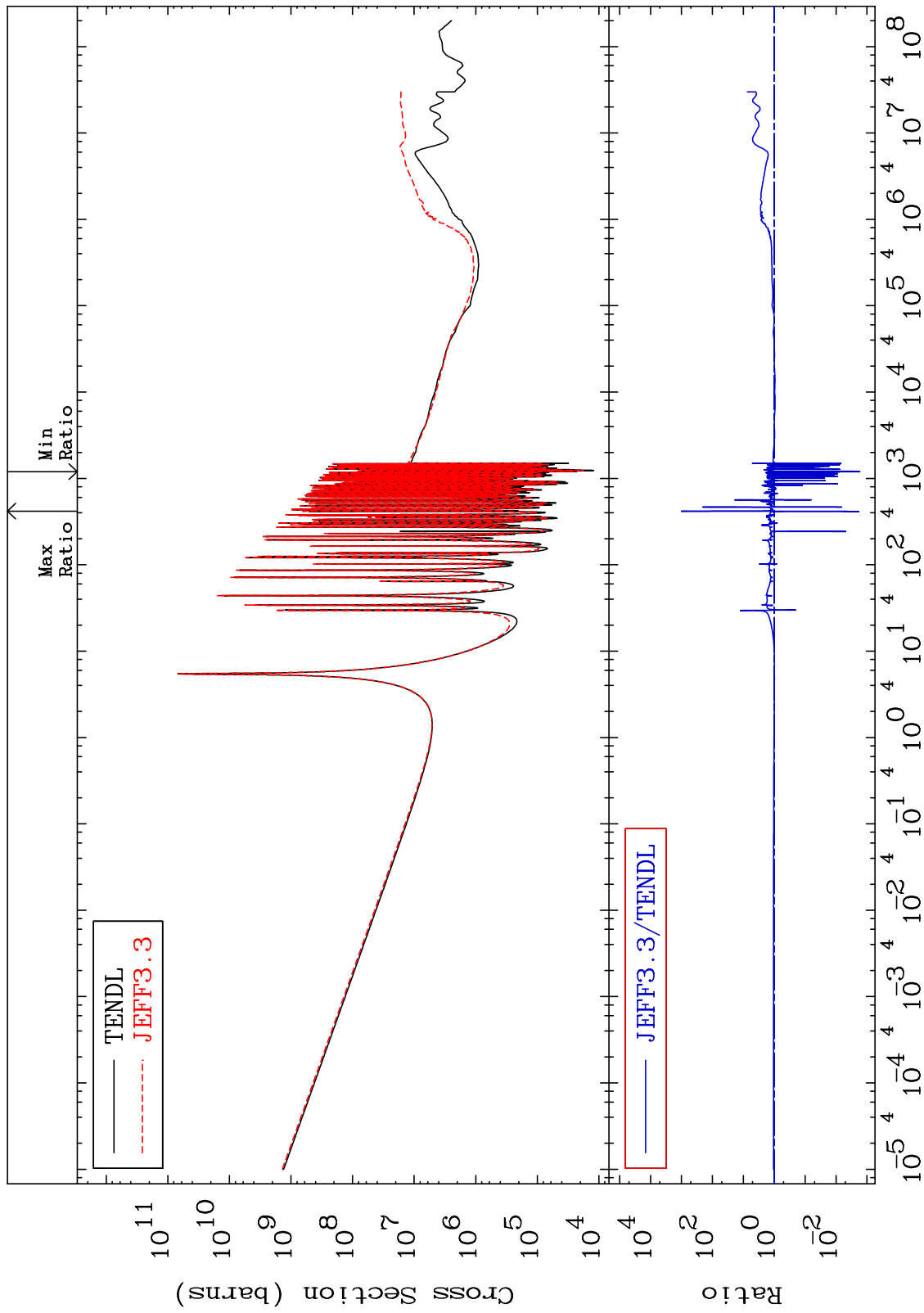
92-U -236
-99.27 To 9999. %



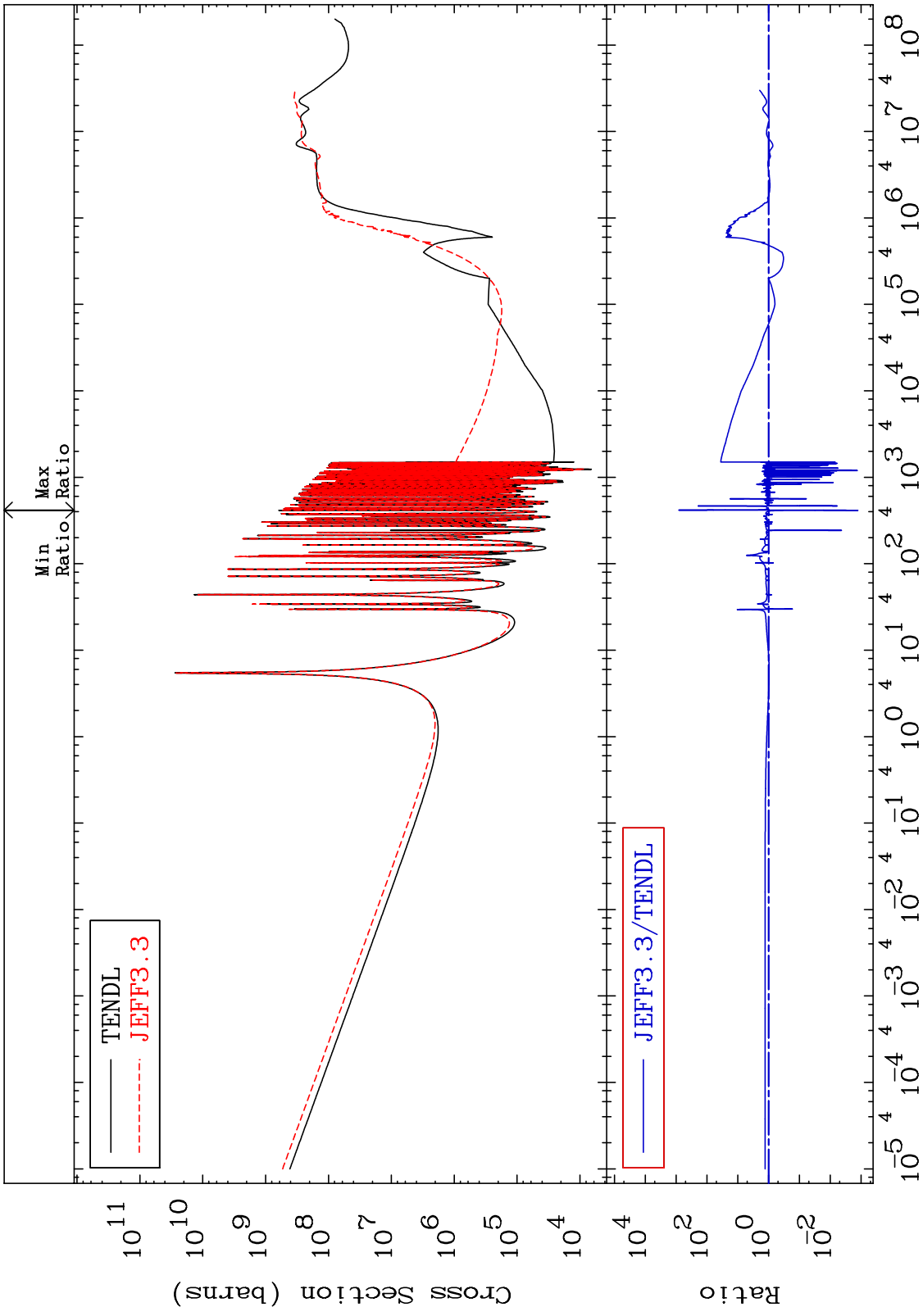
MAT 9231

Total photon (eV-barns)
Cross Section

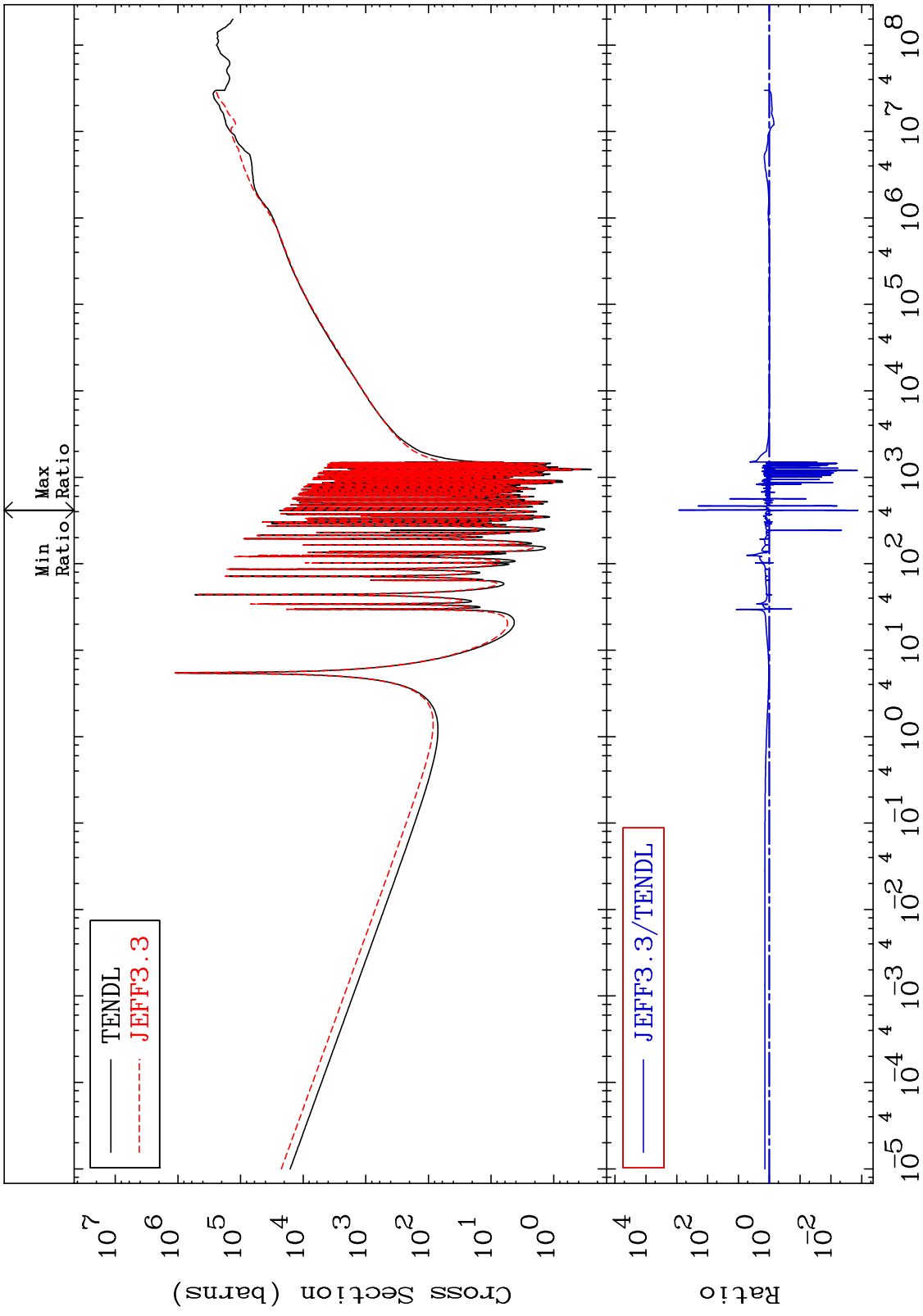
92-U -236
-99.83 To 9999. %



MAT 9231 Total kinematic kerma (high limit) 92-U -236
 Cross Section -99.87 To 9999. %



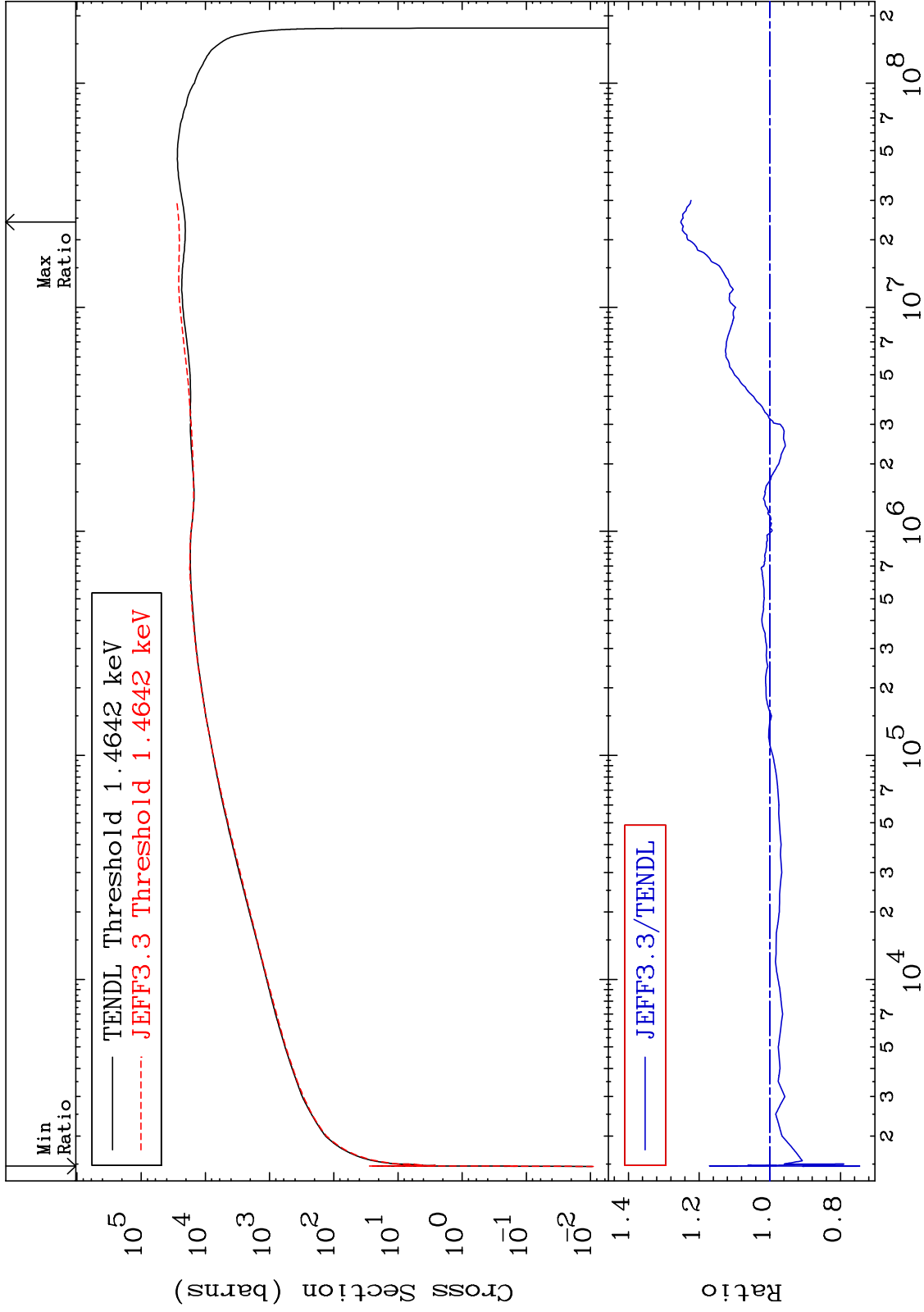
MAT 9231 Dpa total (eV-barns) 92-U -236
 -99.87 To 9999. %



MAT 9231

Dpa elastic (mt2)
Cross Section

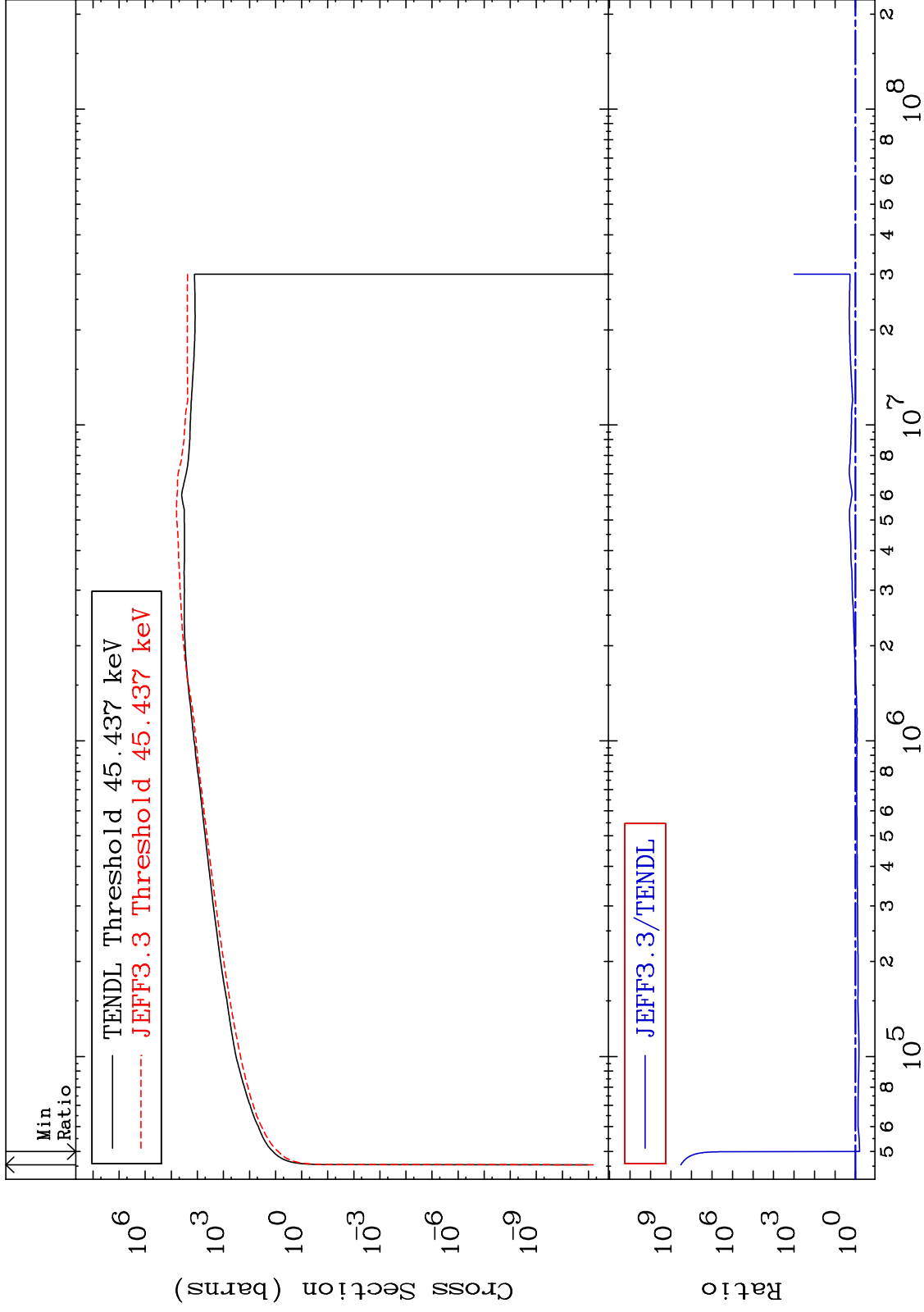
92-U -236
-25.43 To 25.18 %



MAT 9231

Dpa inelastic (mt51-91)
Cross Section

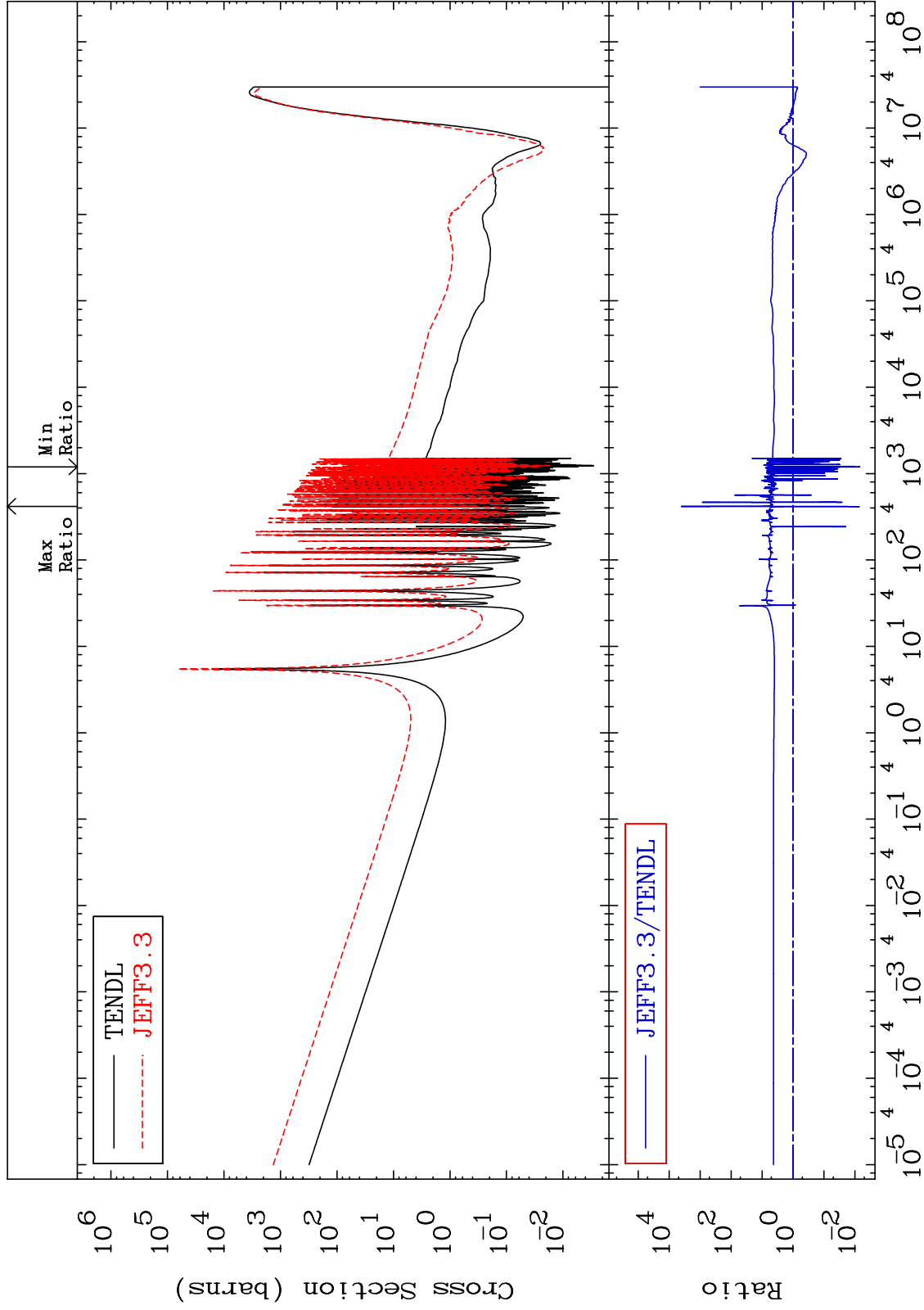
92-U -236
-37.00 To 9999. %



MAT 9231

Dpa disappearance (mt102 -120)
Cross Section

92-U -236
-99.30 To 9999. %



60

Incident Energy (eV)

92-U -236