

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
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

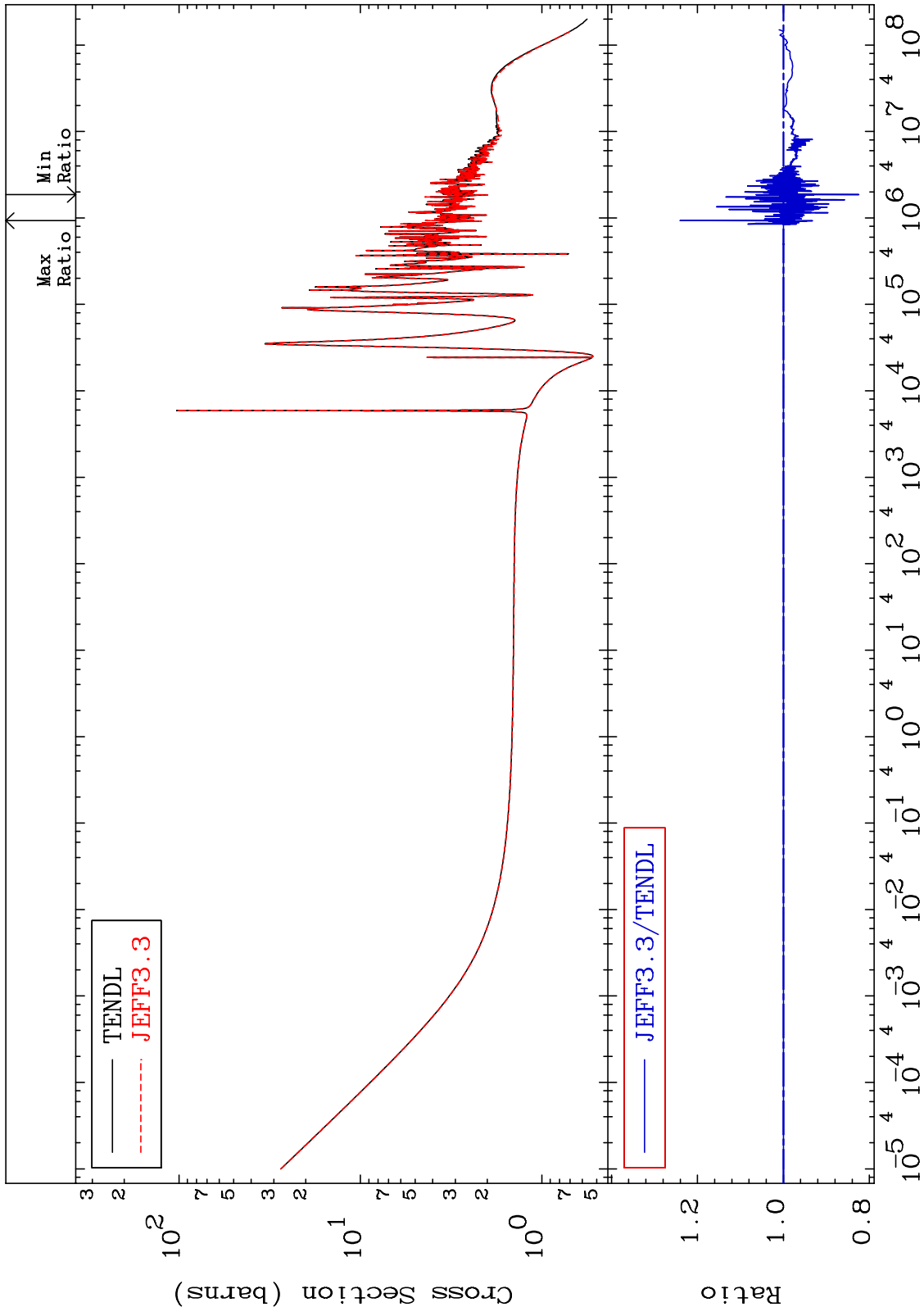
MAT 1325

Total

13-AI-27

Cross Section

-17.56 To 24.01 %



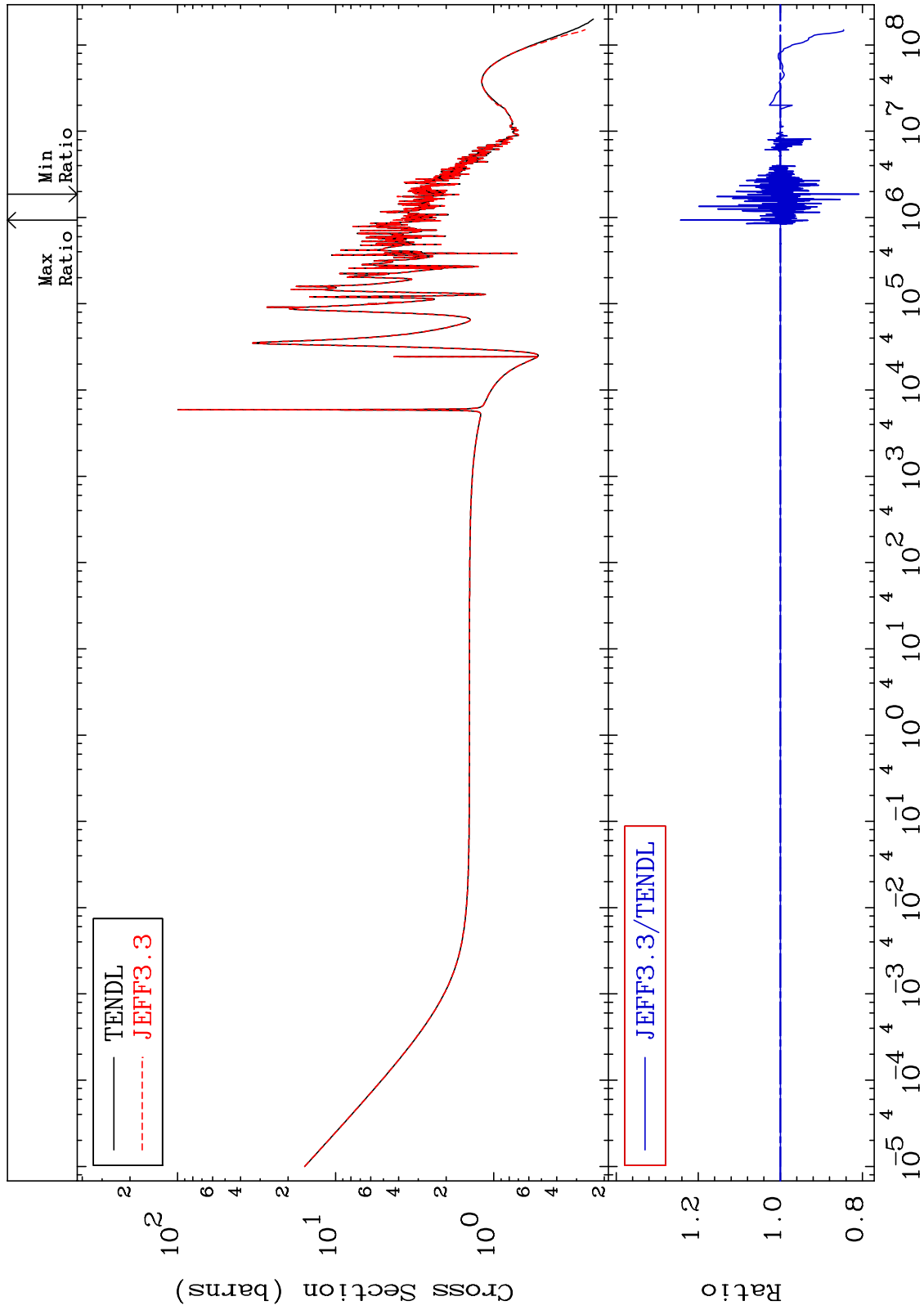
Incident Energy (eV)

13-AI-27

MAT 1325

Elastic
Cross Section

13-AI-27
-19.17 To 24.30 %



2

Incident Energy (eV)

13-AI-27

MAT 1325

Inelastic
Cross Section

13-AI-27
-100.0 To 11.51 %

Max Ratio
Min Ratio

— TENDL Threshold 875.30 keV
- - - JEFF3.3 Threshold 875.30 keV

— JEFF3.3/TENDL

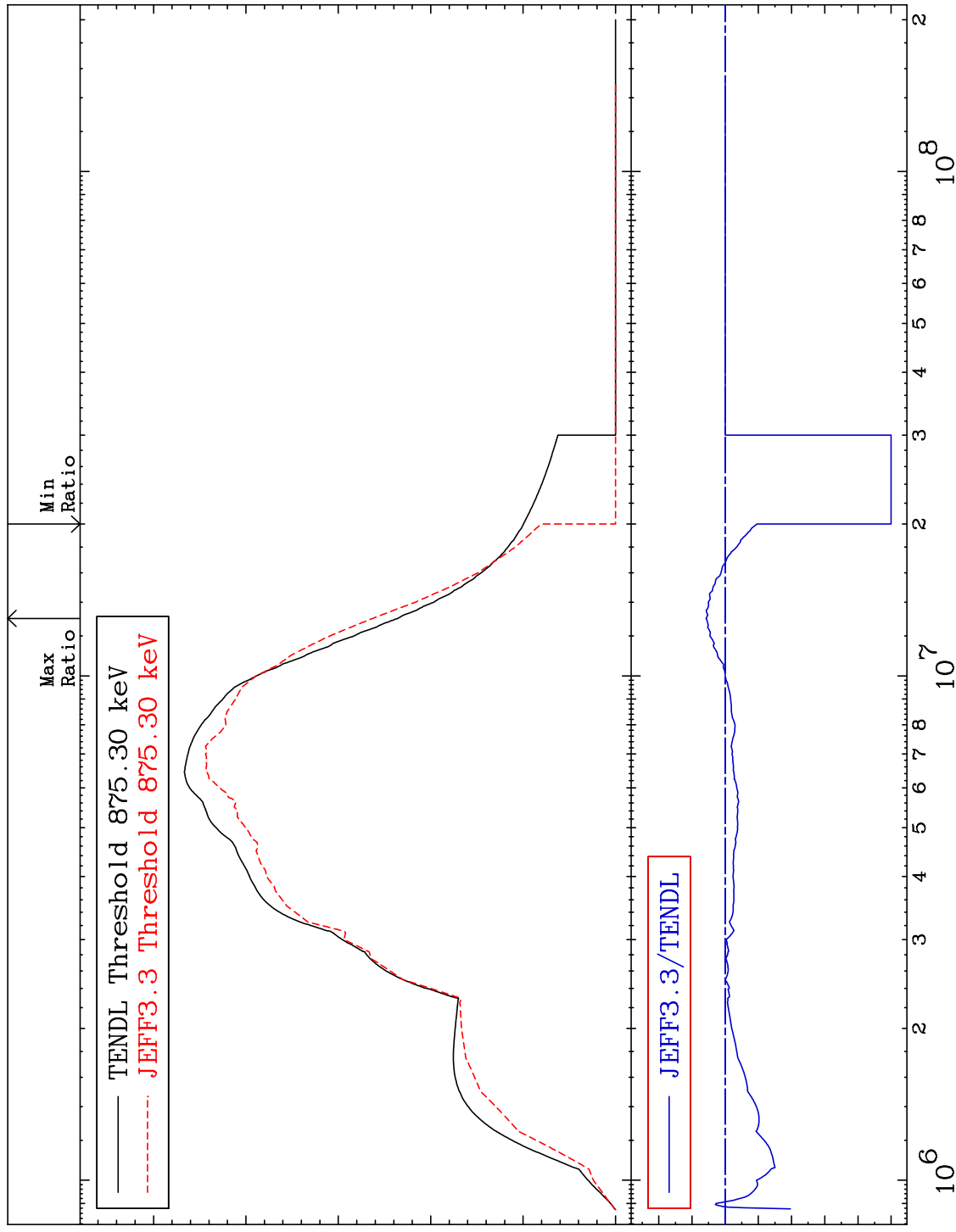
Cross Section (barns)

Ratio

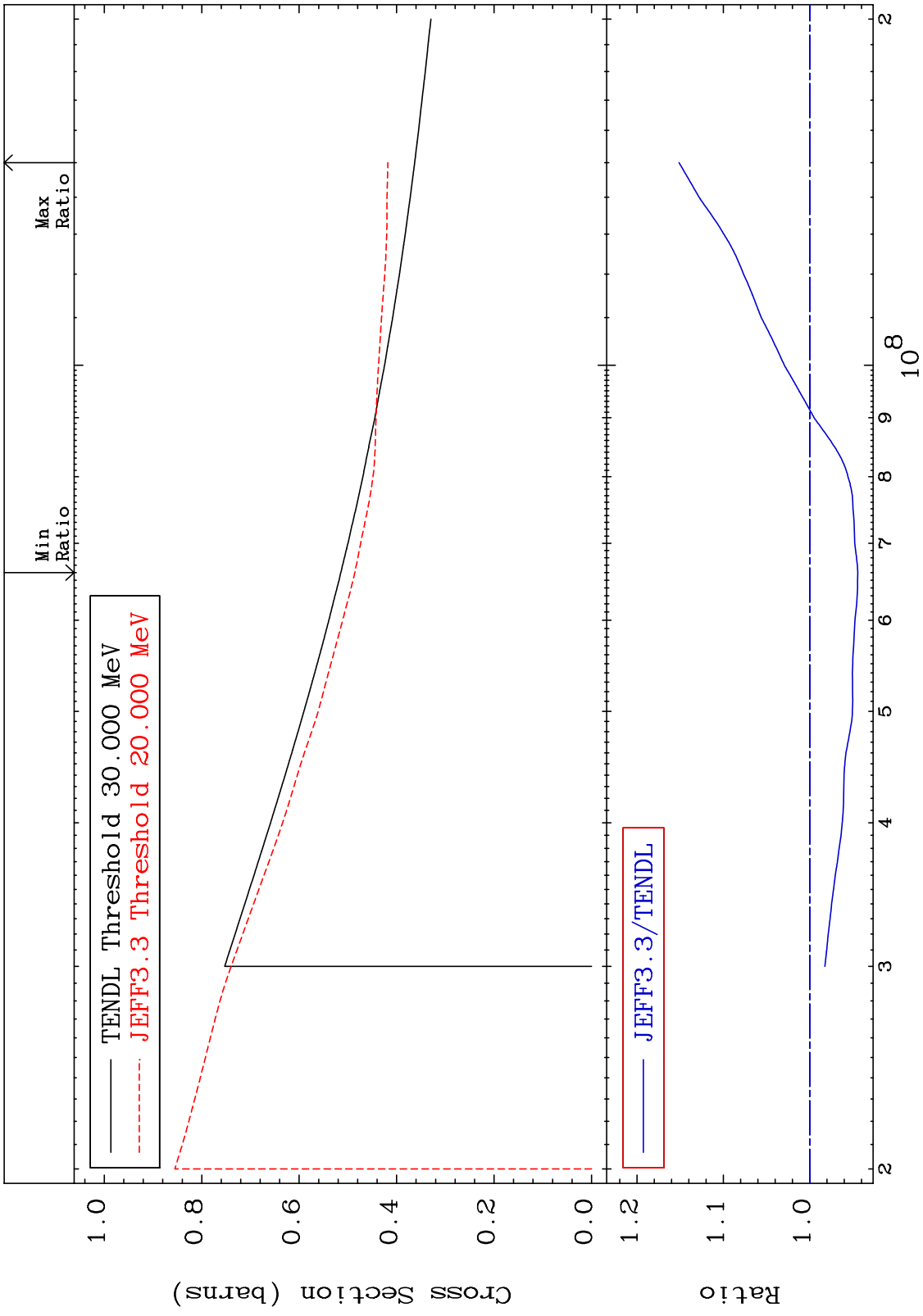
Incident Energy (eV)

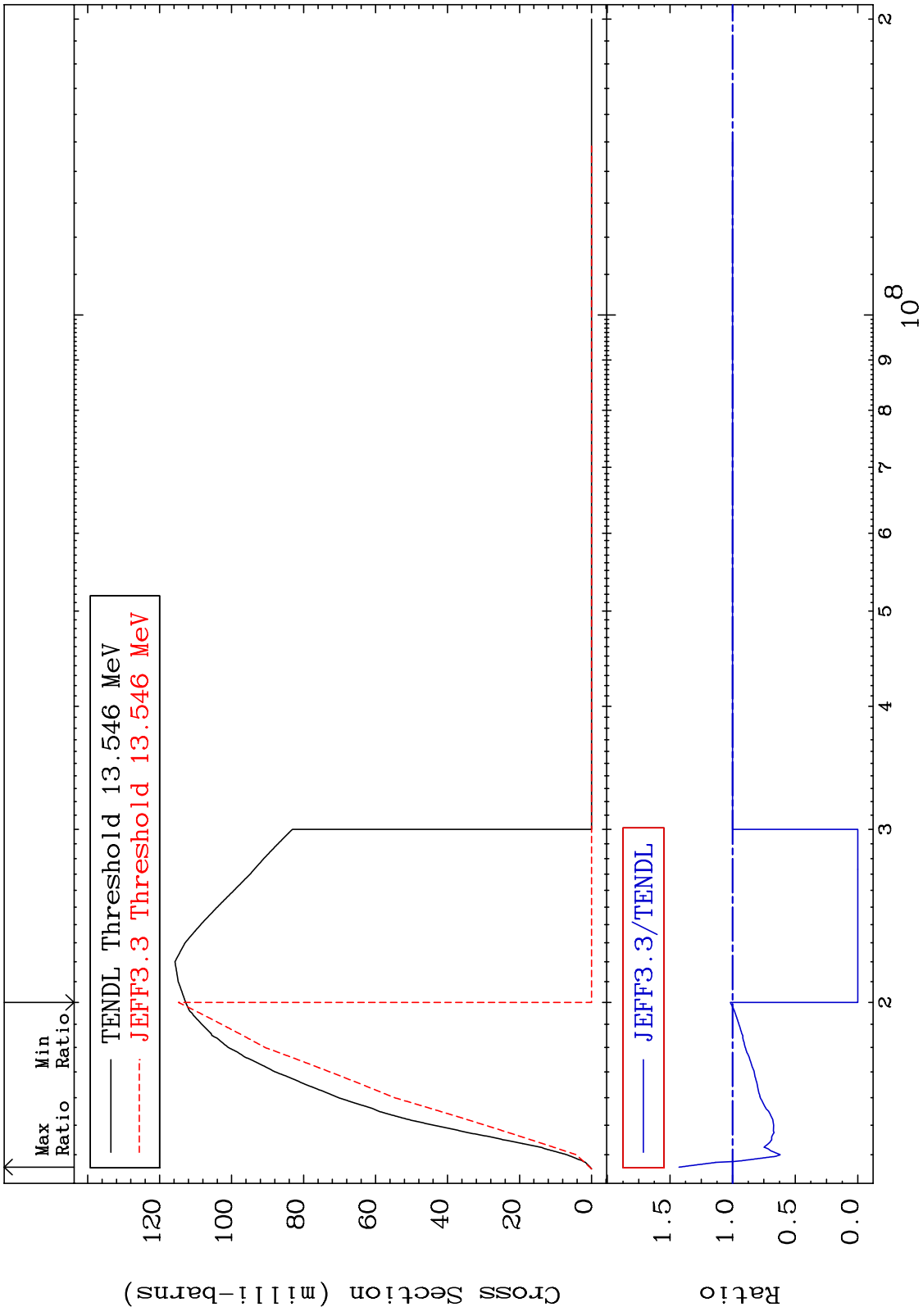
3

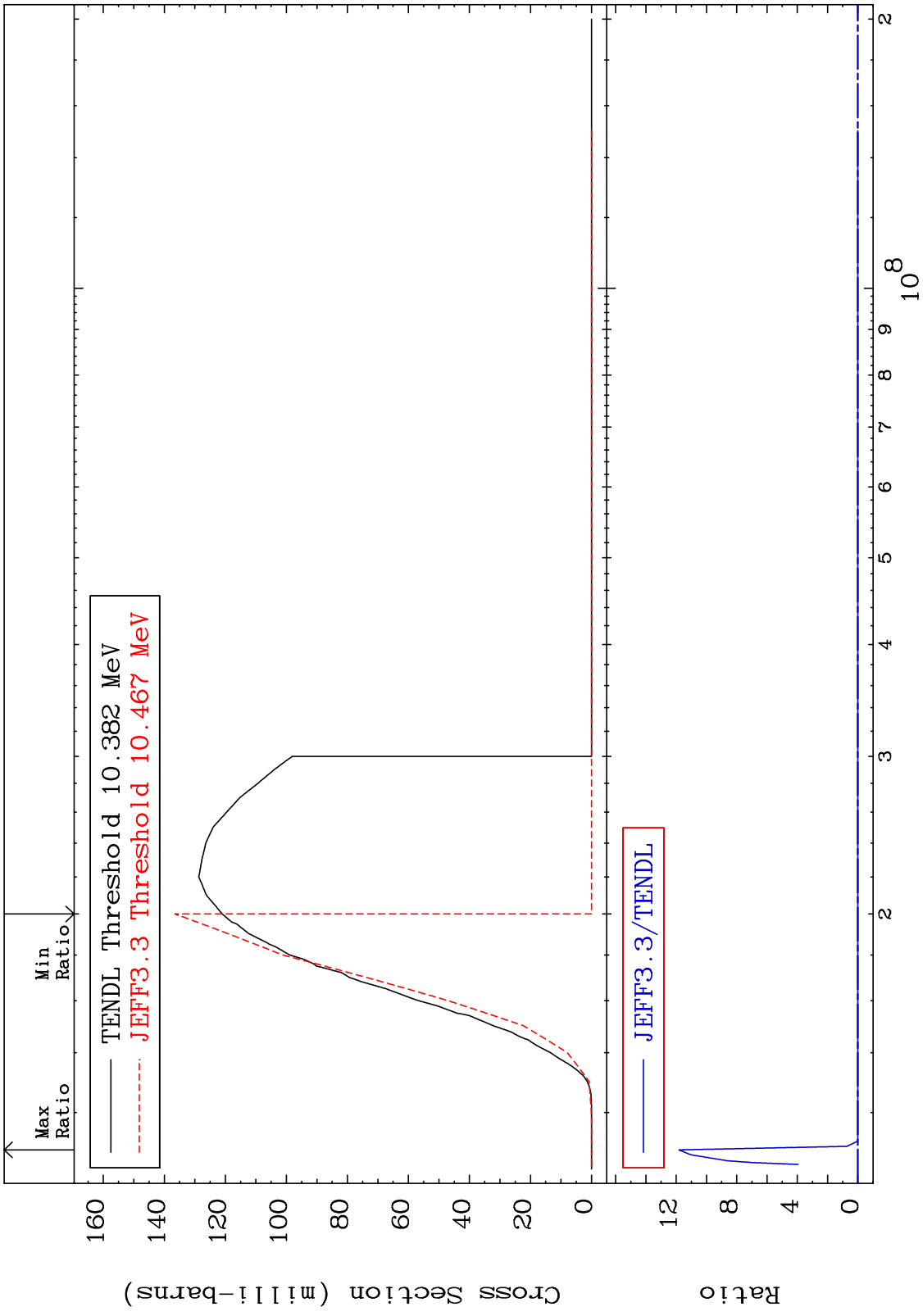
13-AI-27



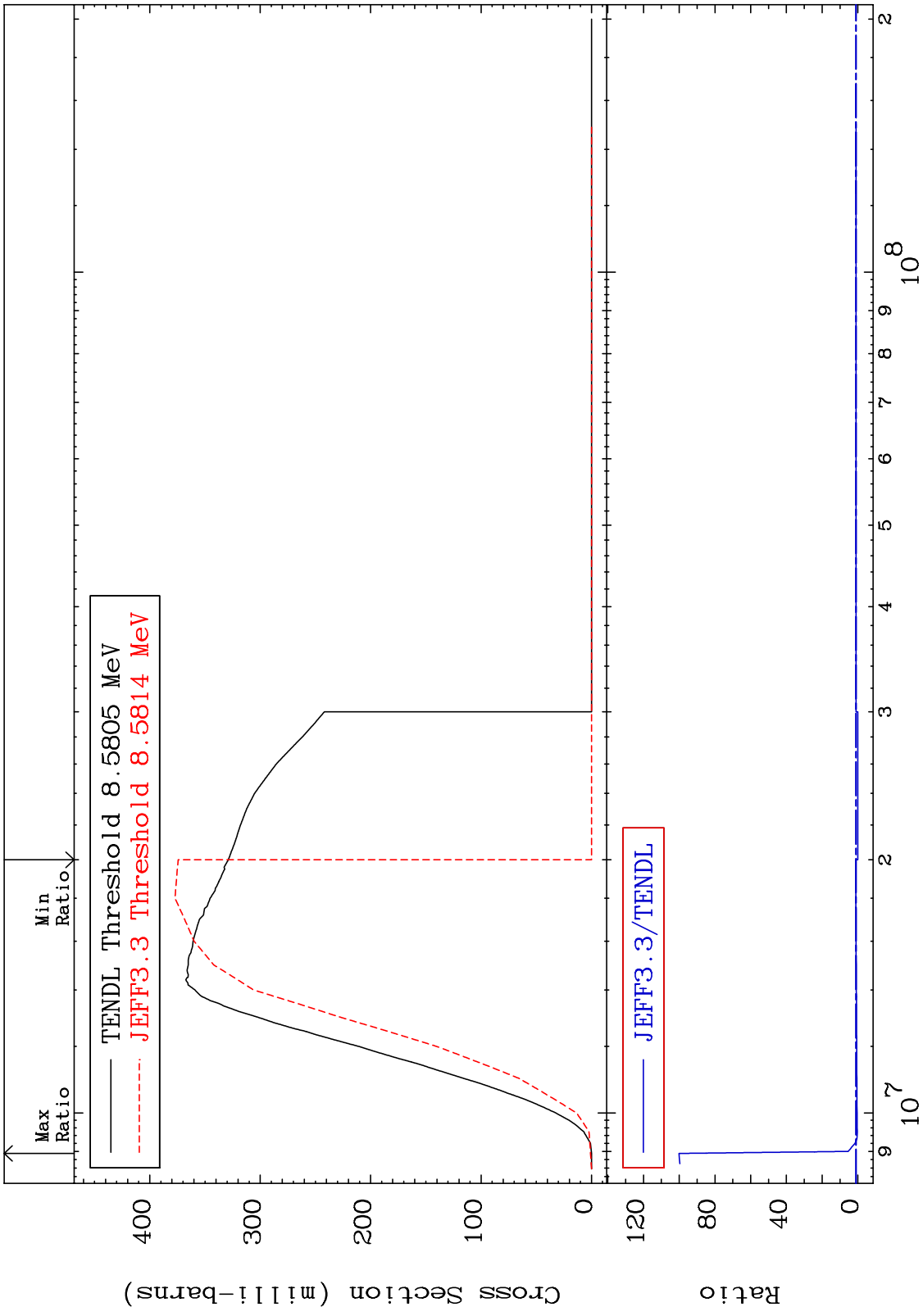
MAT 1325 (n, remainder) Cross Section 13-AI-27 -5.575 To 15.14 %







MAT 1325 (n,n') p 13-Al-27
Cross Section -100.0 To 9911. %



13-Al-27

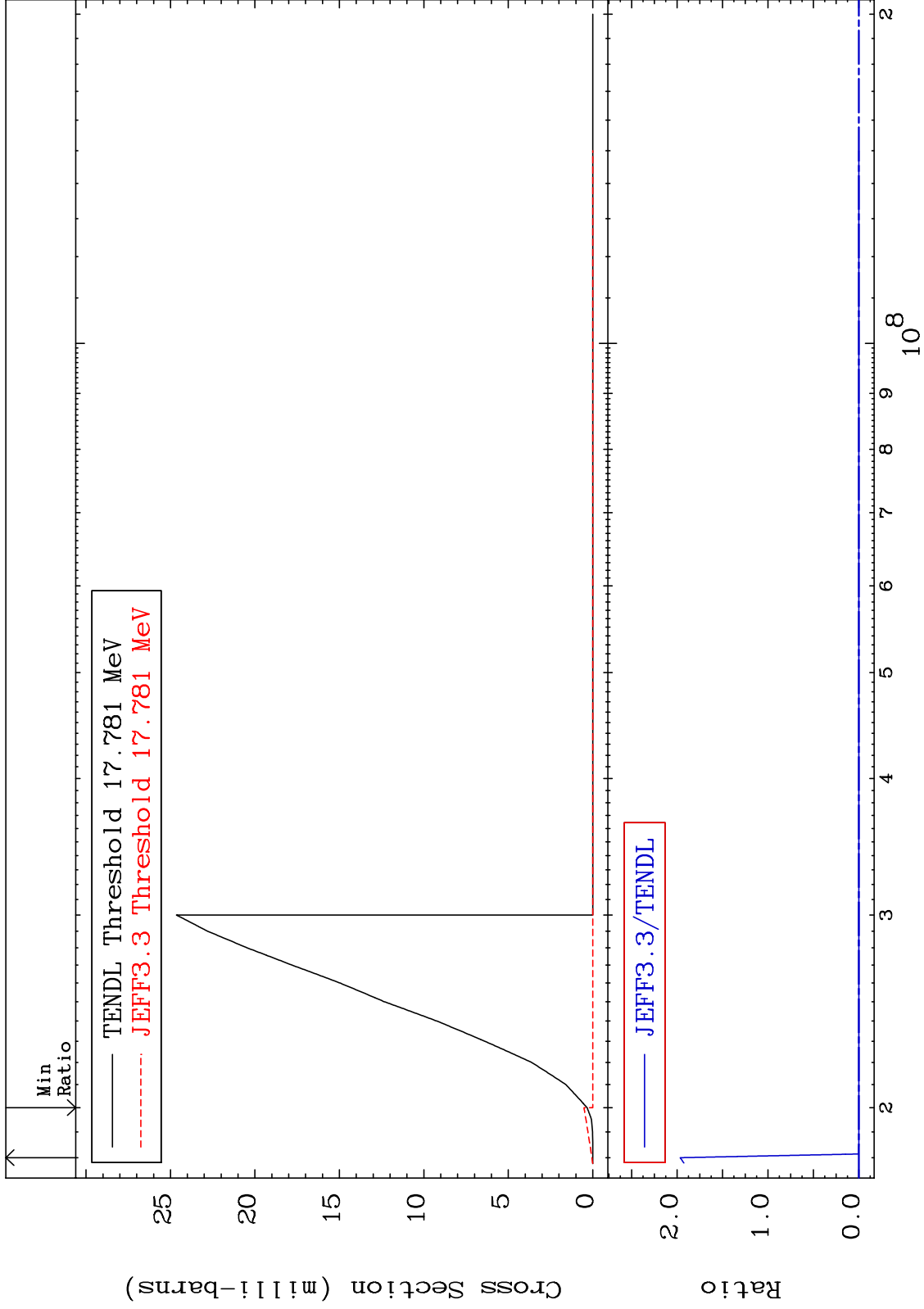
MAT 1325

(n, n') d

13-AI-27

Cross Section

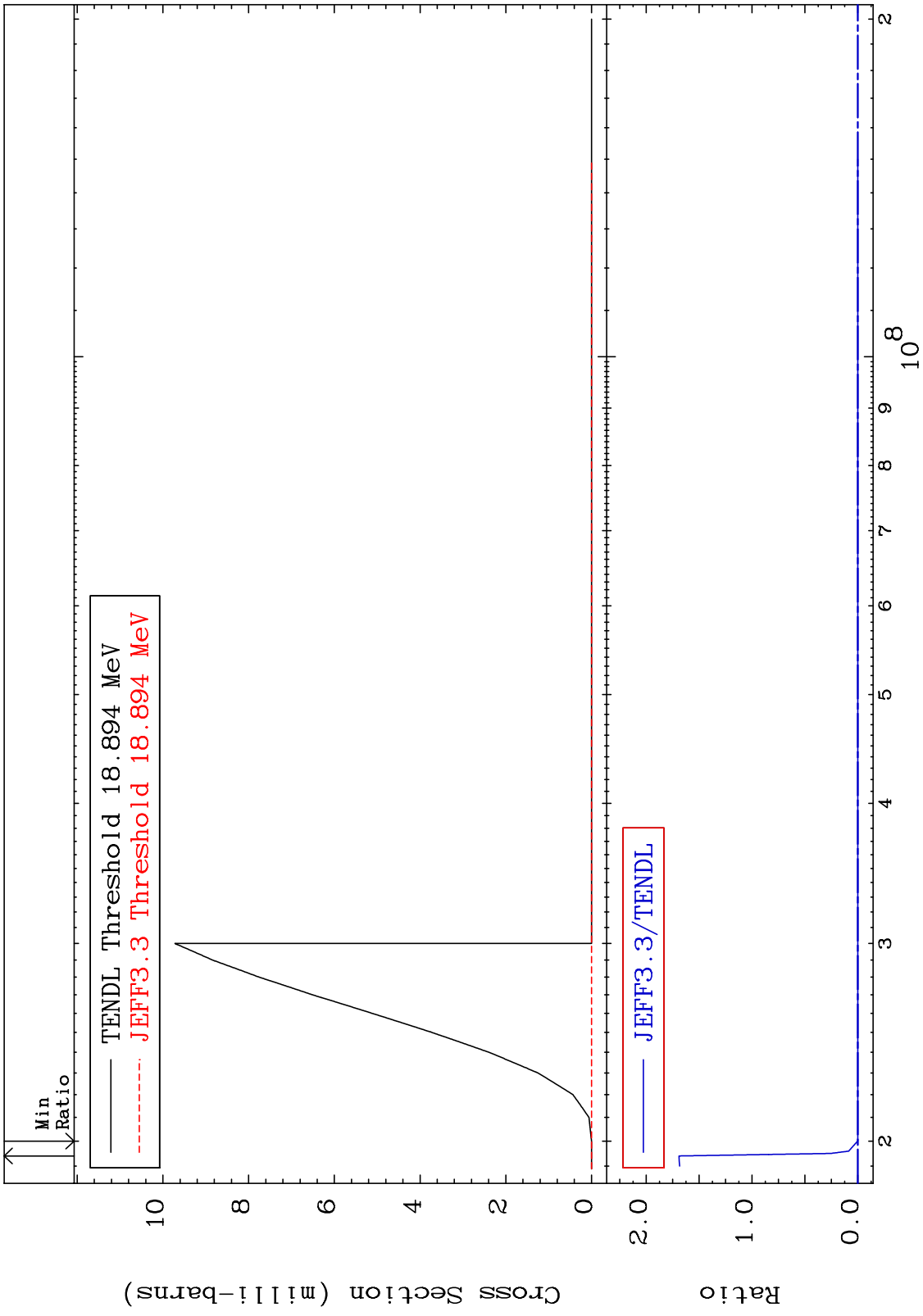
-100.0 To 9999. %



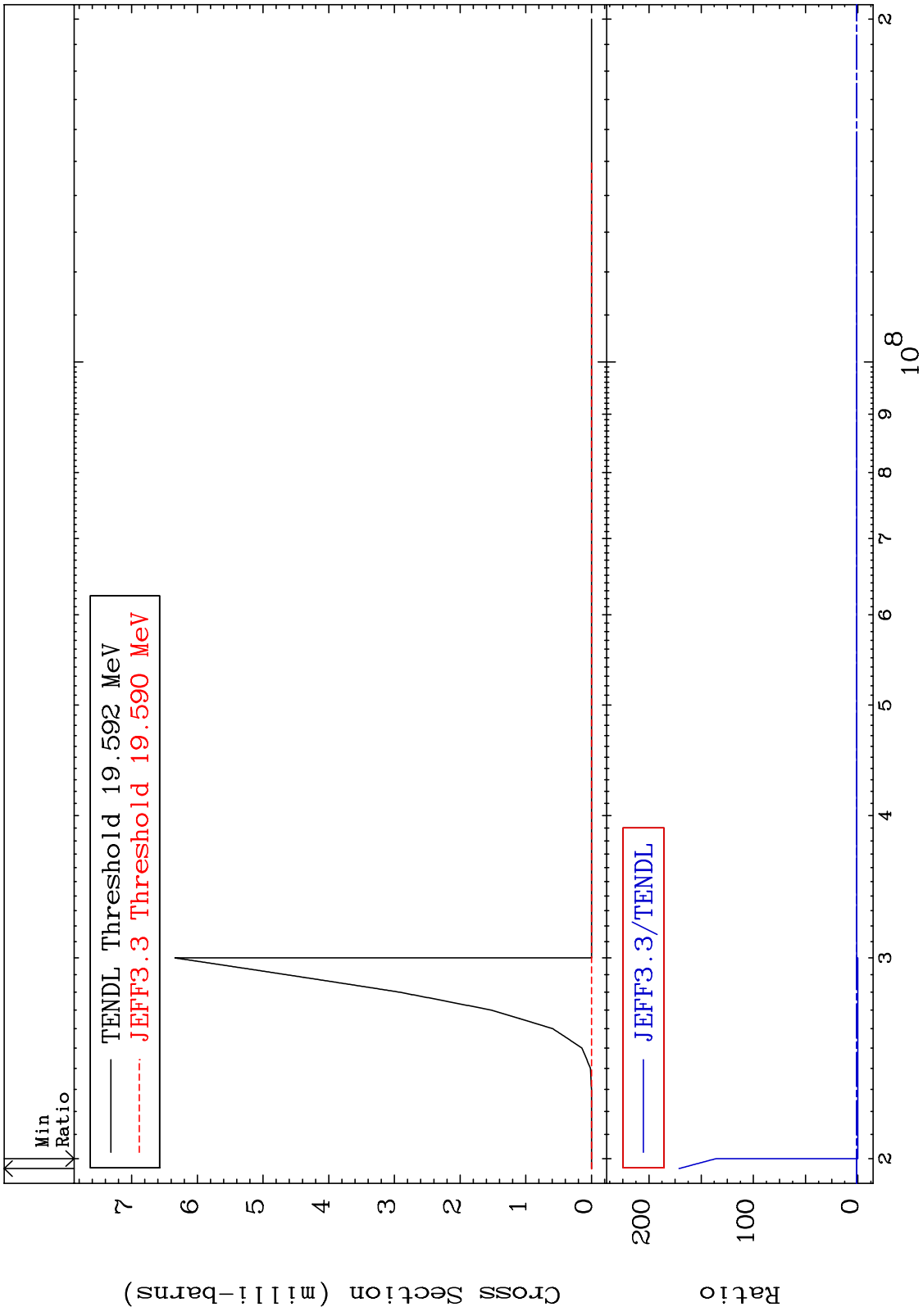
8

Incident Energy (eV)

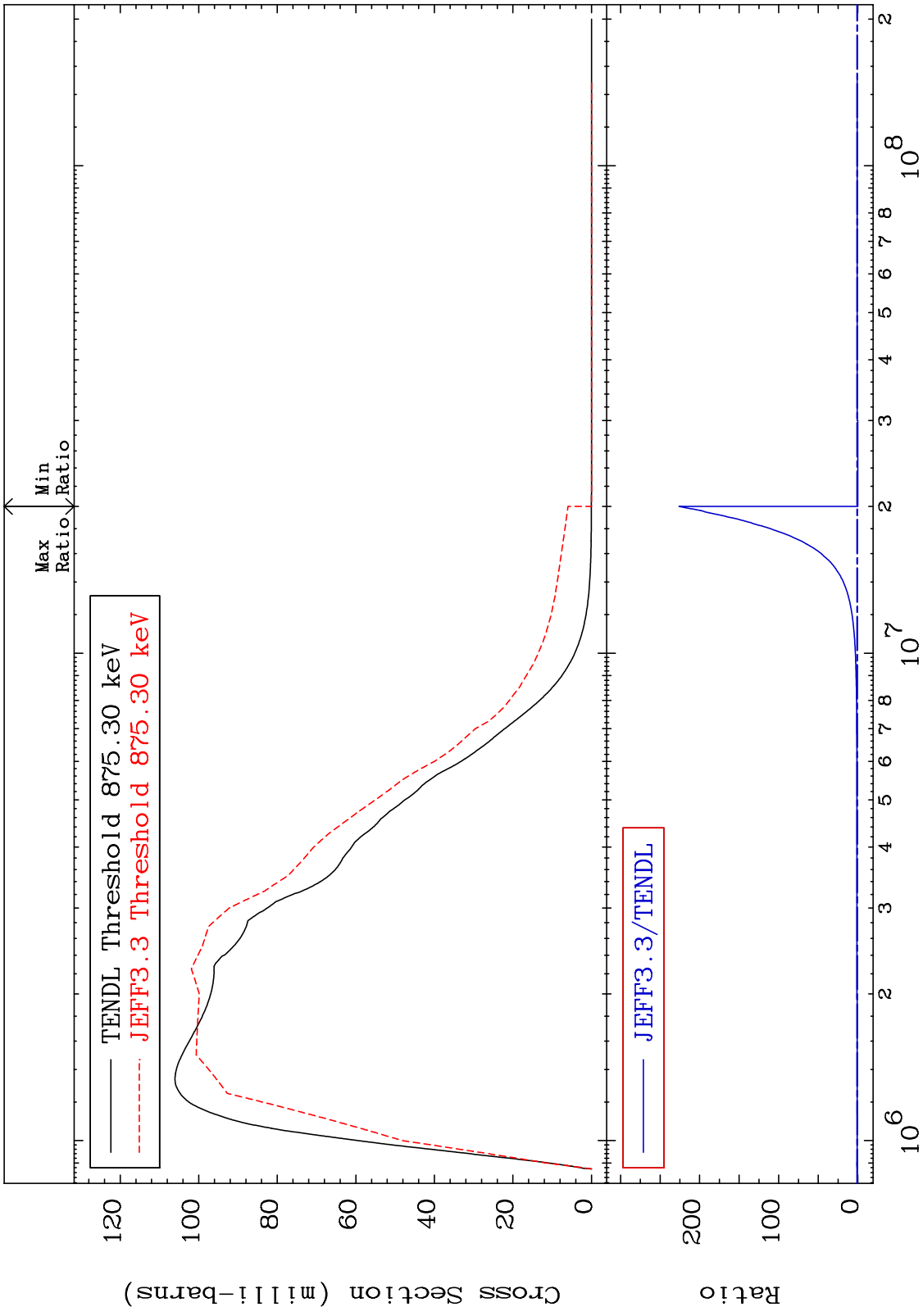
13-AI-27



MAT 1325 (n,n') p α 13-AI-27
 Cross Section -100.0 To 9999. %

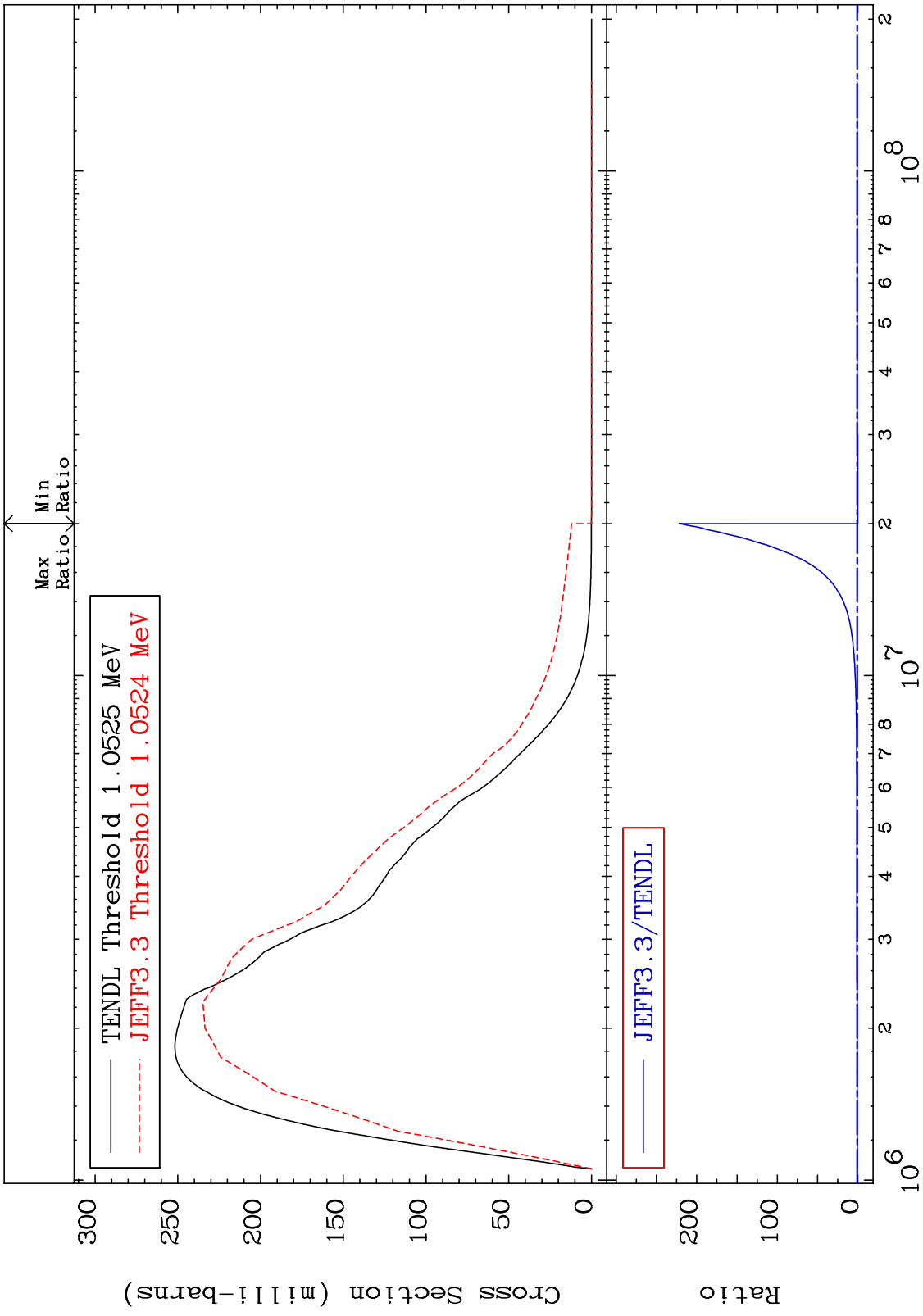


MAT 1325 MT= 51 (n,n') Level Cross Section 13-AI-27
-100.0 To 9999. %



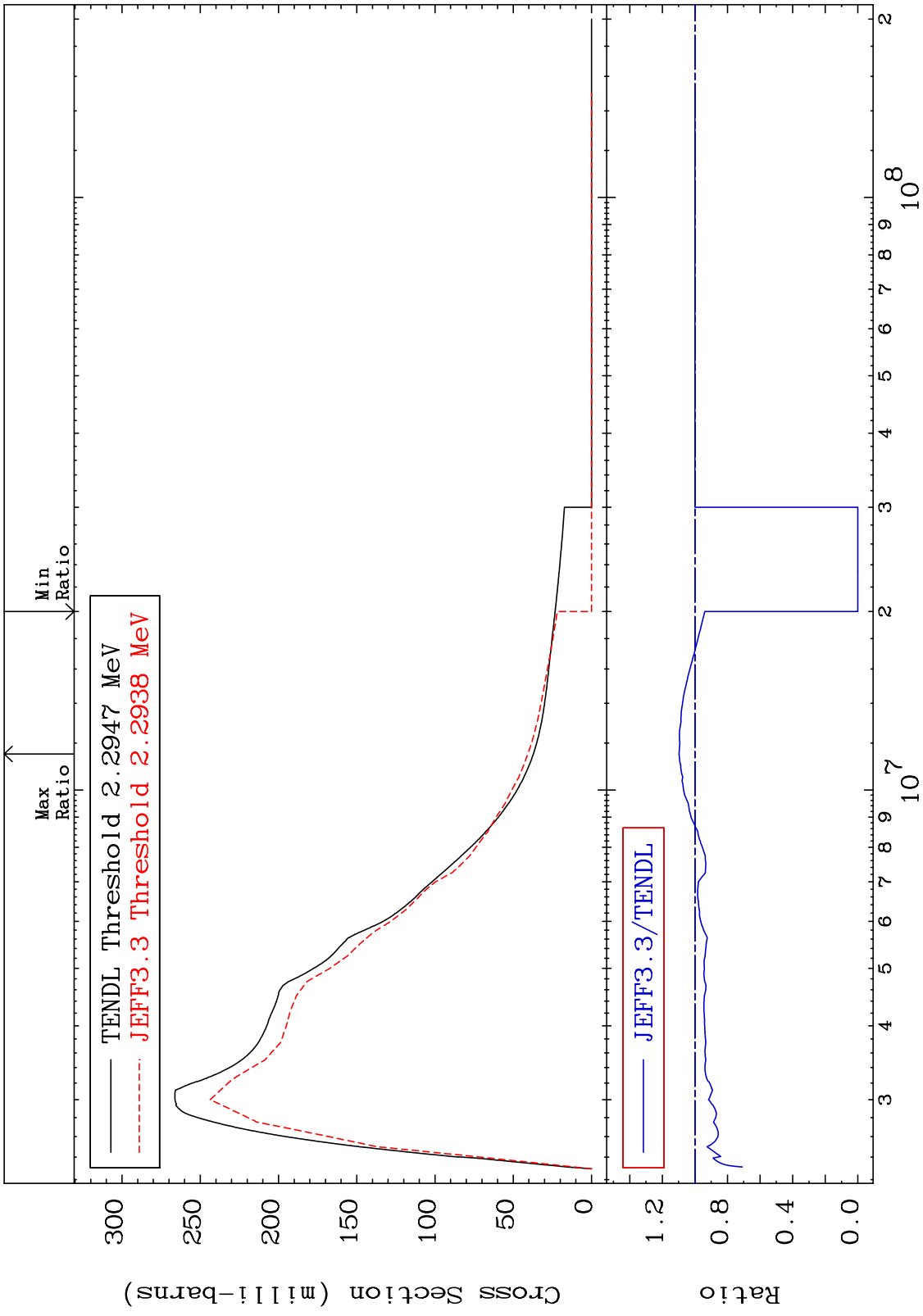
11 13-AI-27

MAT 1325 MT= 52 (n,n') Level Cross Section -100.0 To 9999. % 13-AI-27



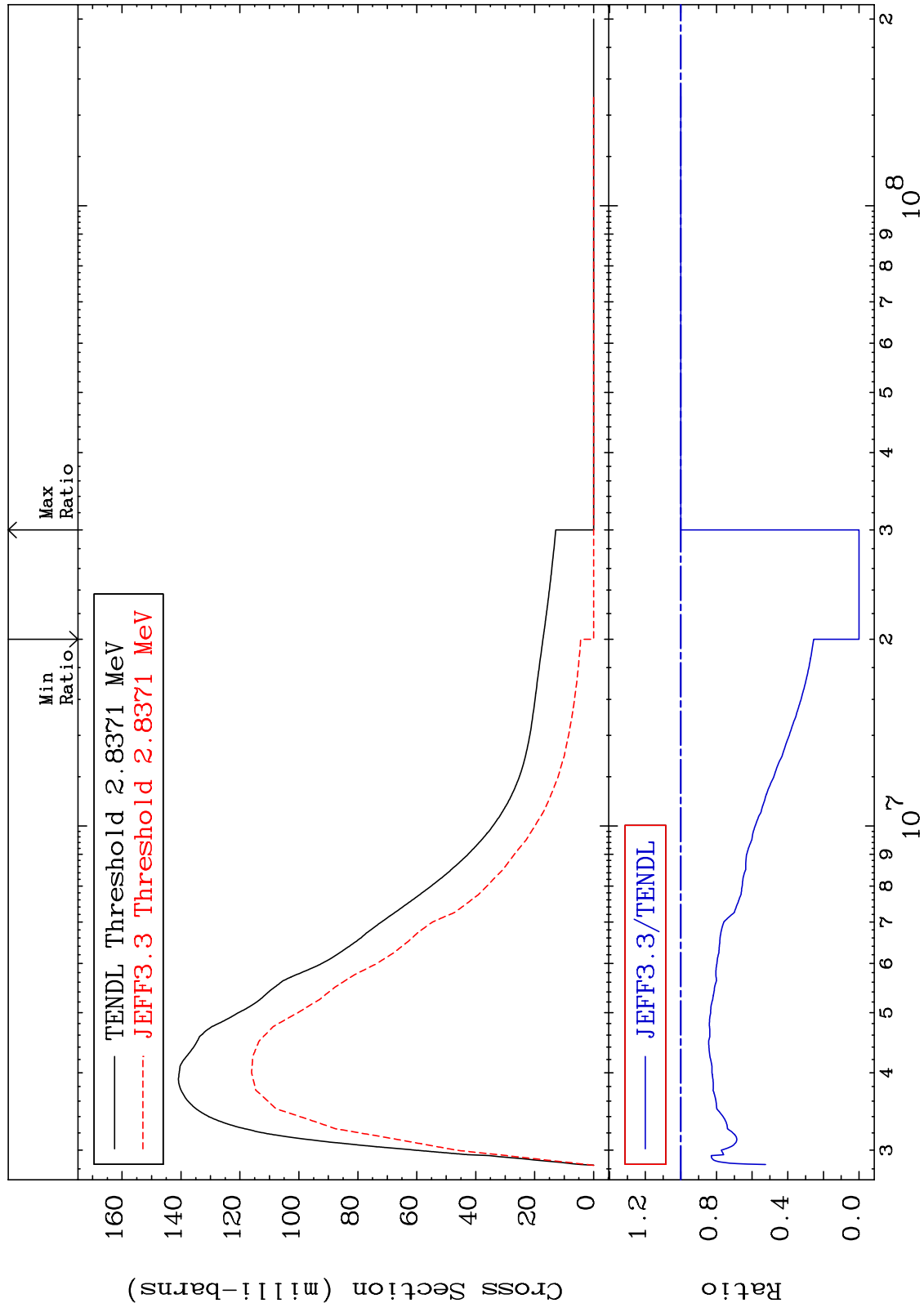
13-AI-27

MAT 1325 MT= 53 (n, n') Level Cross Section 13-AI-27
 -100.0 To 9.714 %

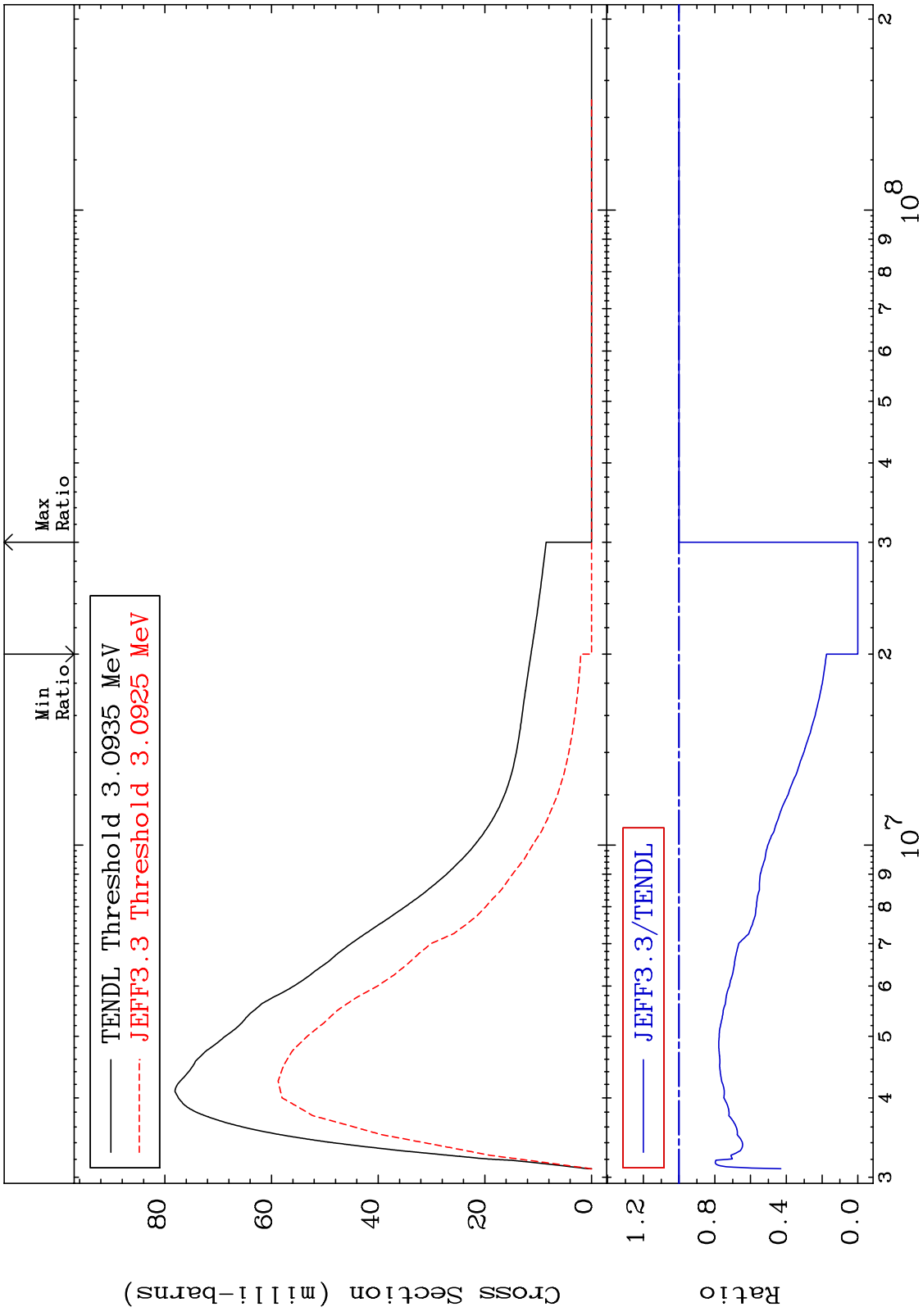


13 Incident Energy (eV) 13-AI-27

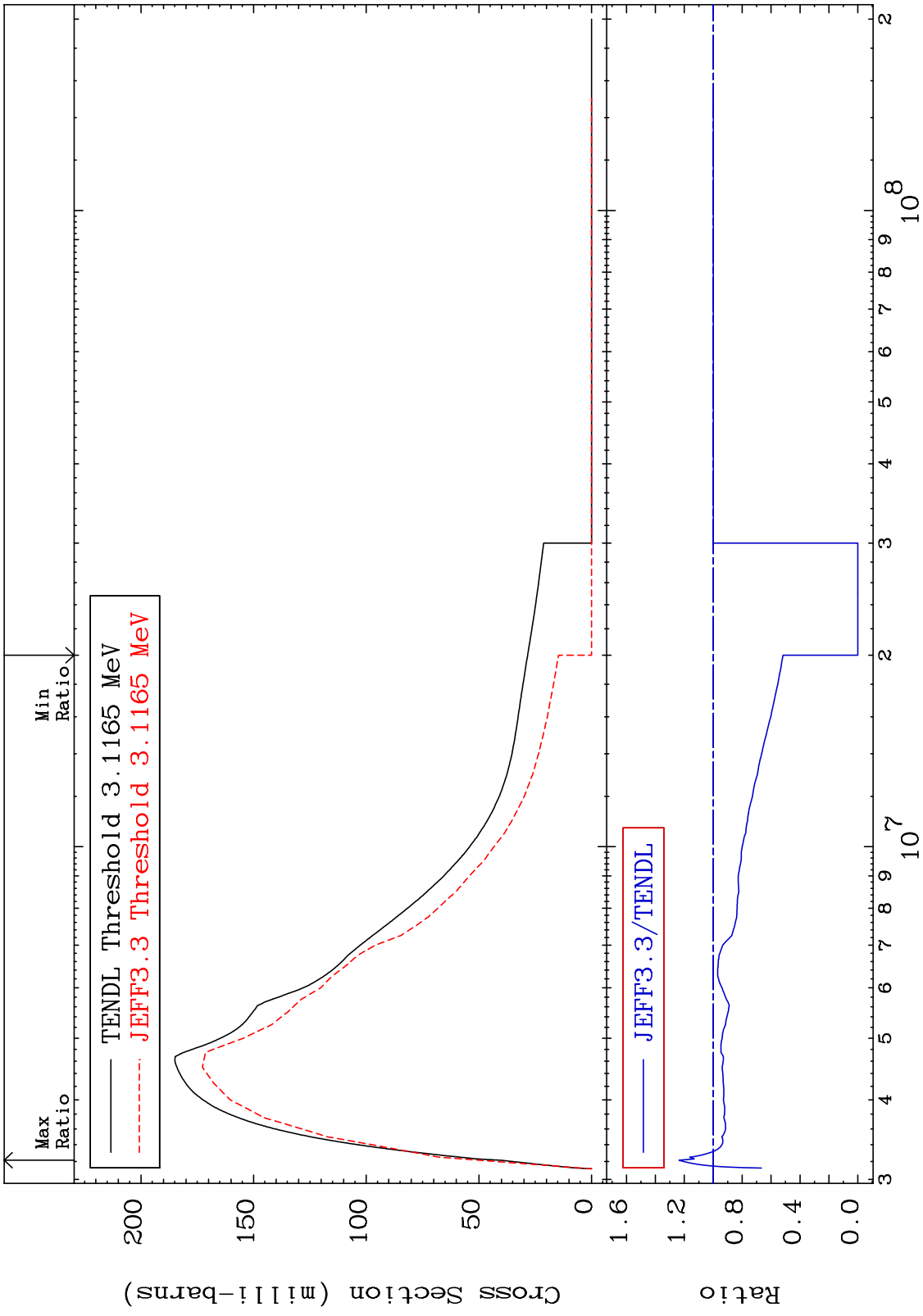
MAT 1325 MT= 54 (n,n') Level Cross Section -100.0 To 0.000 % 13-AI-27



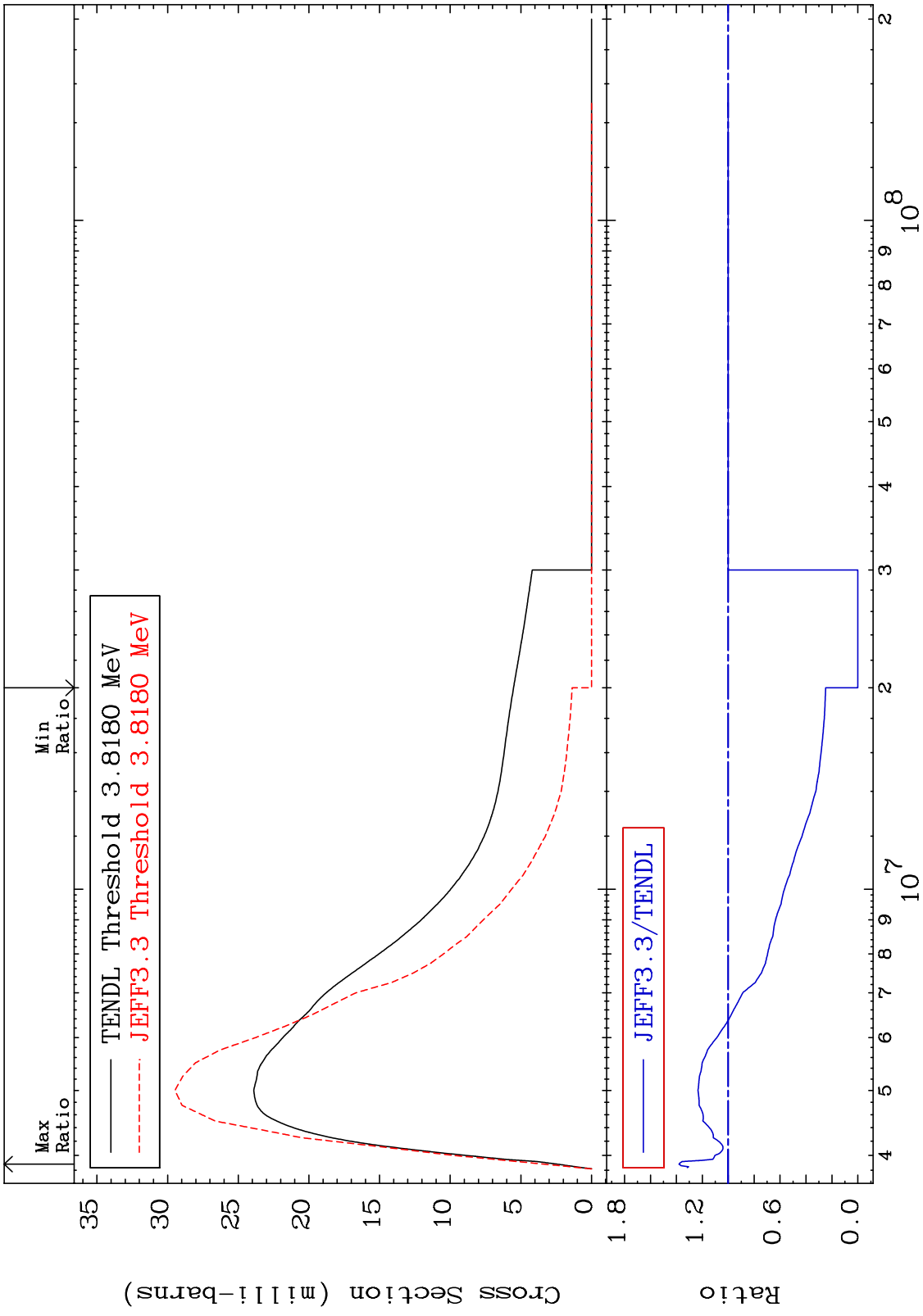
MAT 1325 MT= 55 (n,n') Level Cross Section -100.0 To 0.000 % 13-AI-27



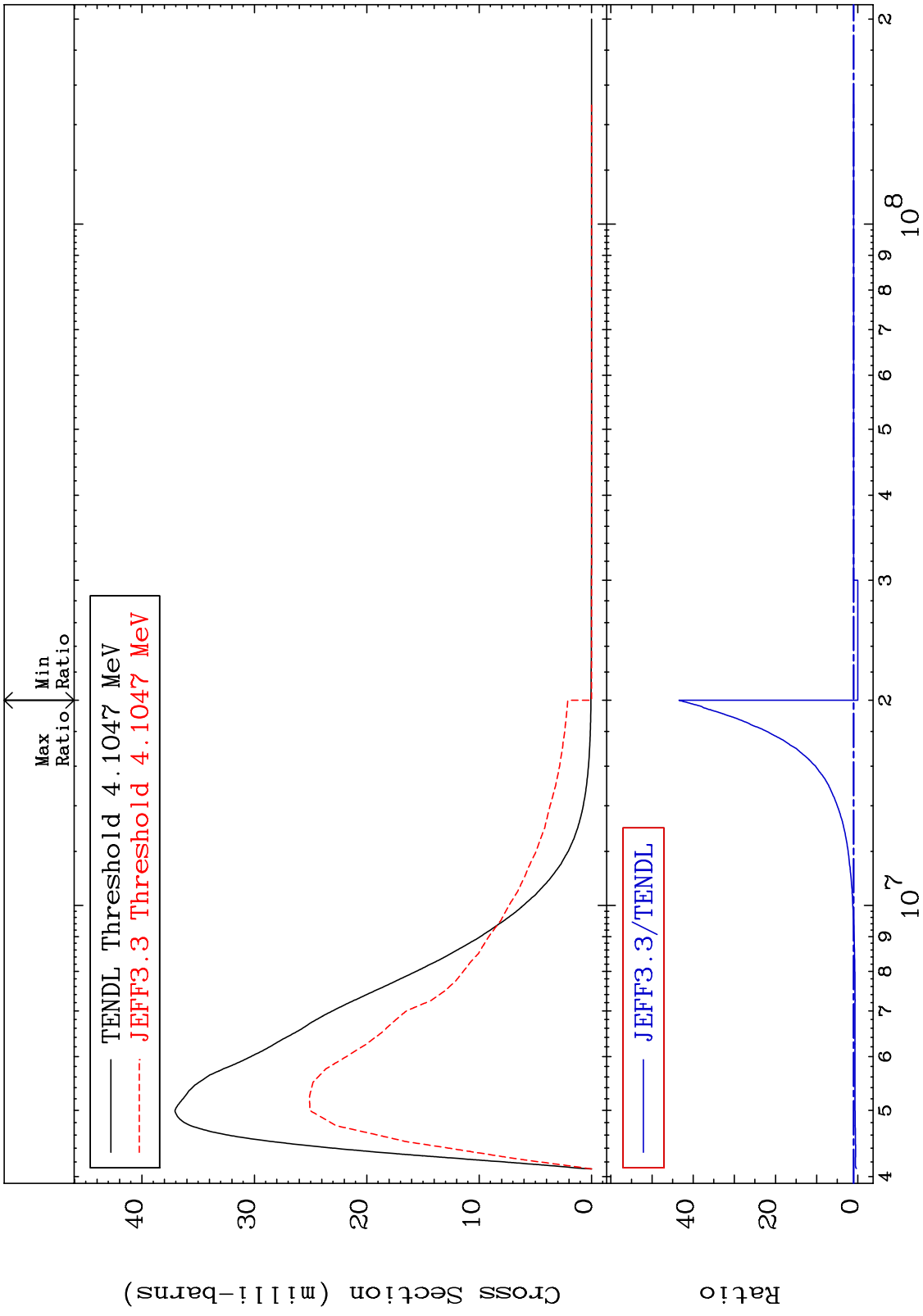
MAT 1325 MT= 56 (n,n') Level Cross Section -100.0 To 23.66 % 13-AI-27



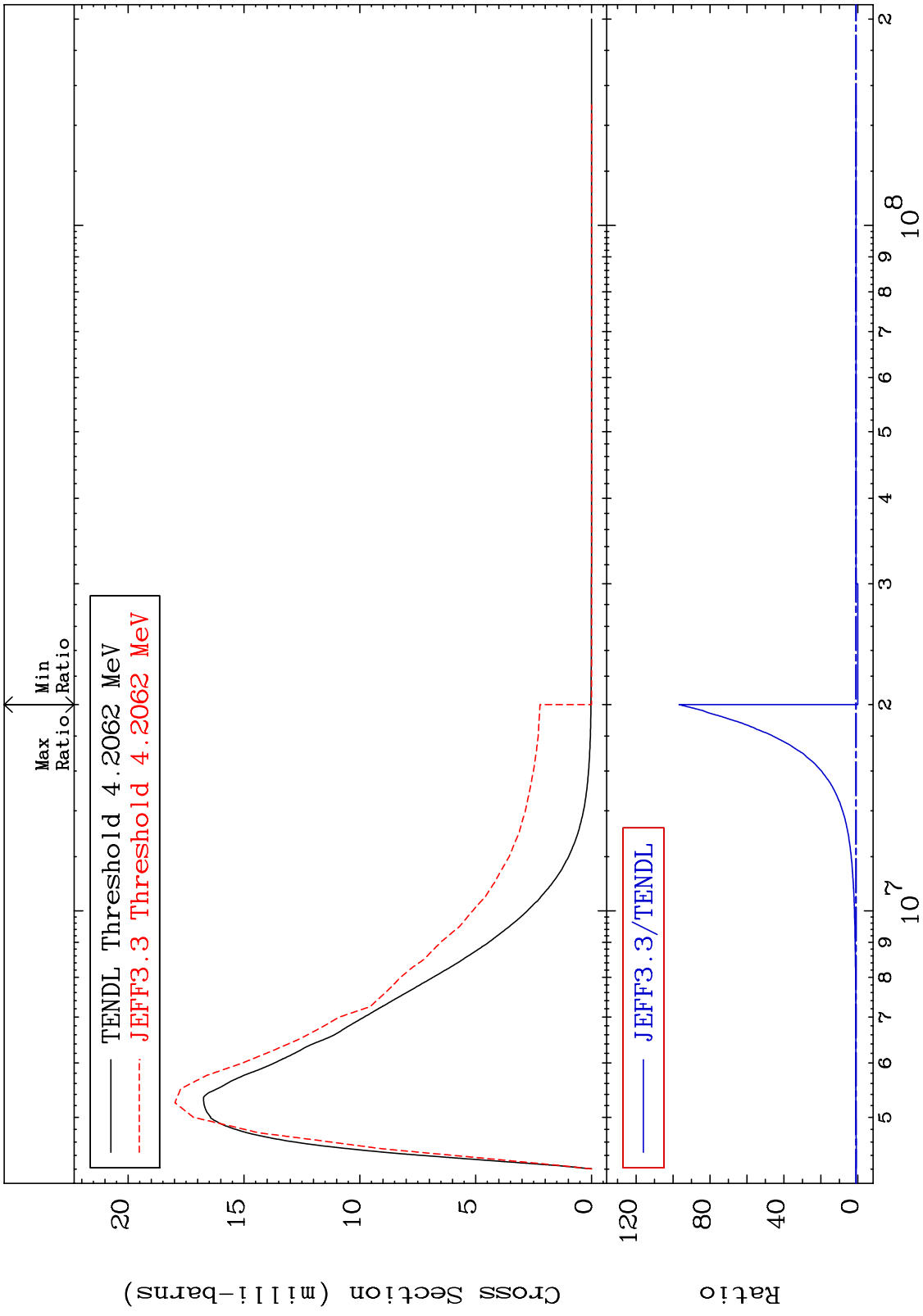
MAT 1325 MT= 57 (n,n') Level Cross Section -100.0 To 37.96 % 13-AI-27



MAT 1325 MT= 58 (n,n') Level Cross Section -100.0 To 4244. % 13-Al-27



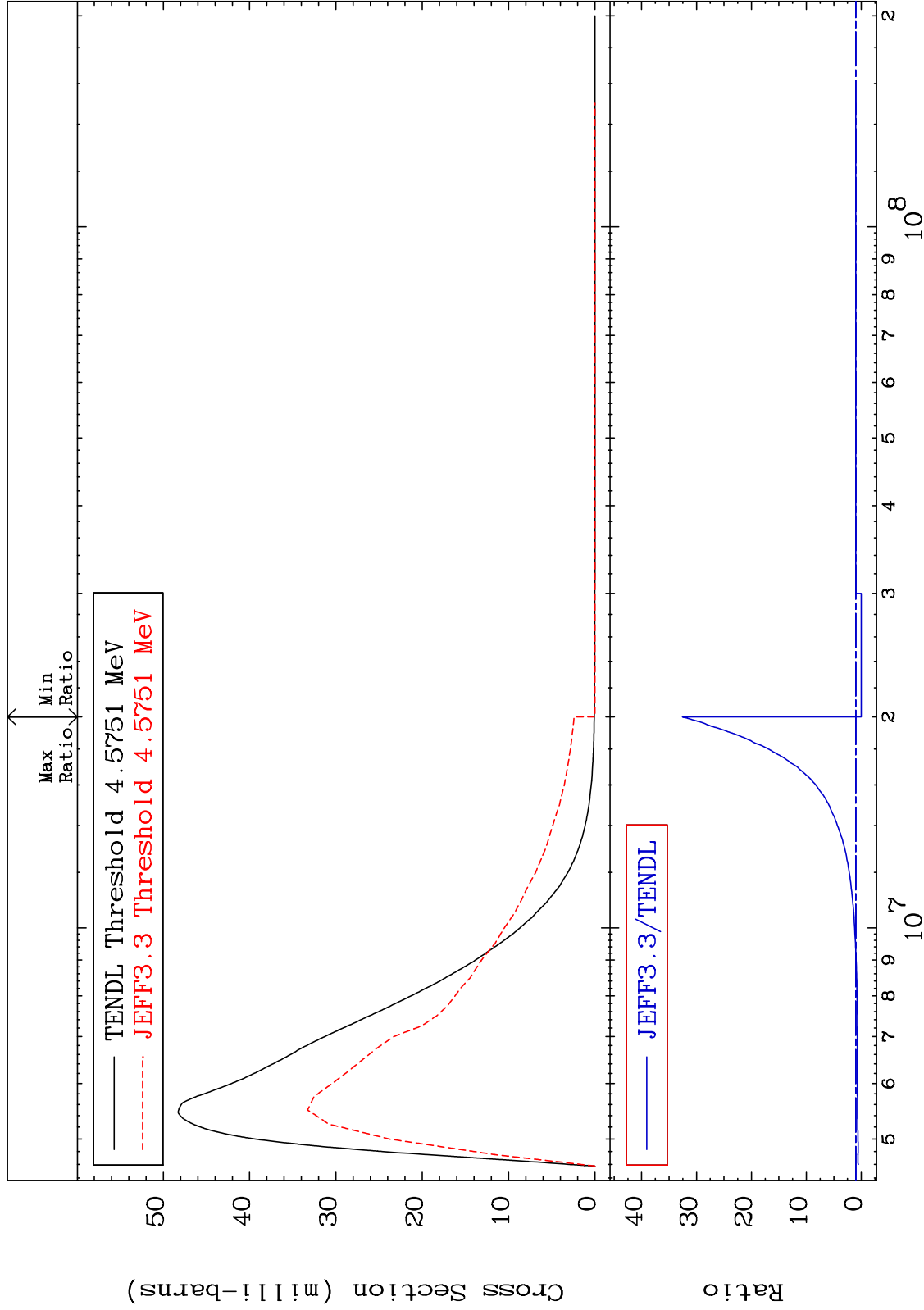
MAT 1325 MT= 59 (n,n') Level Cross Section -100.0 To 9573. % 13-AI-27



MAT 1325

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

13-AI-27
-100.0 To 3156. %

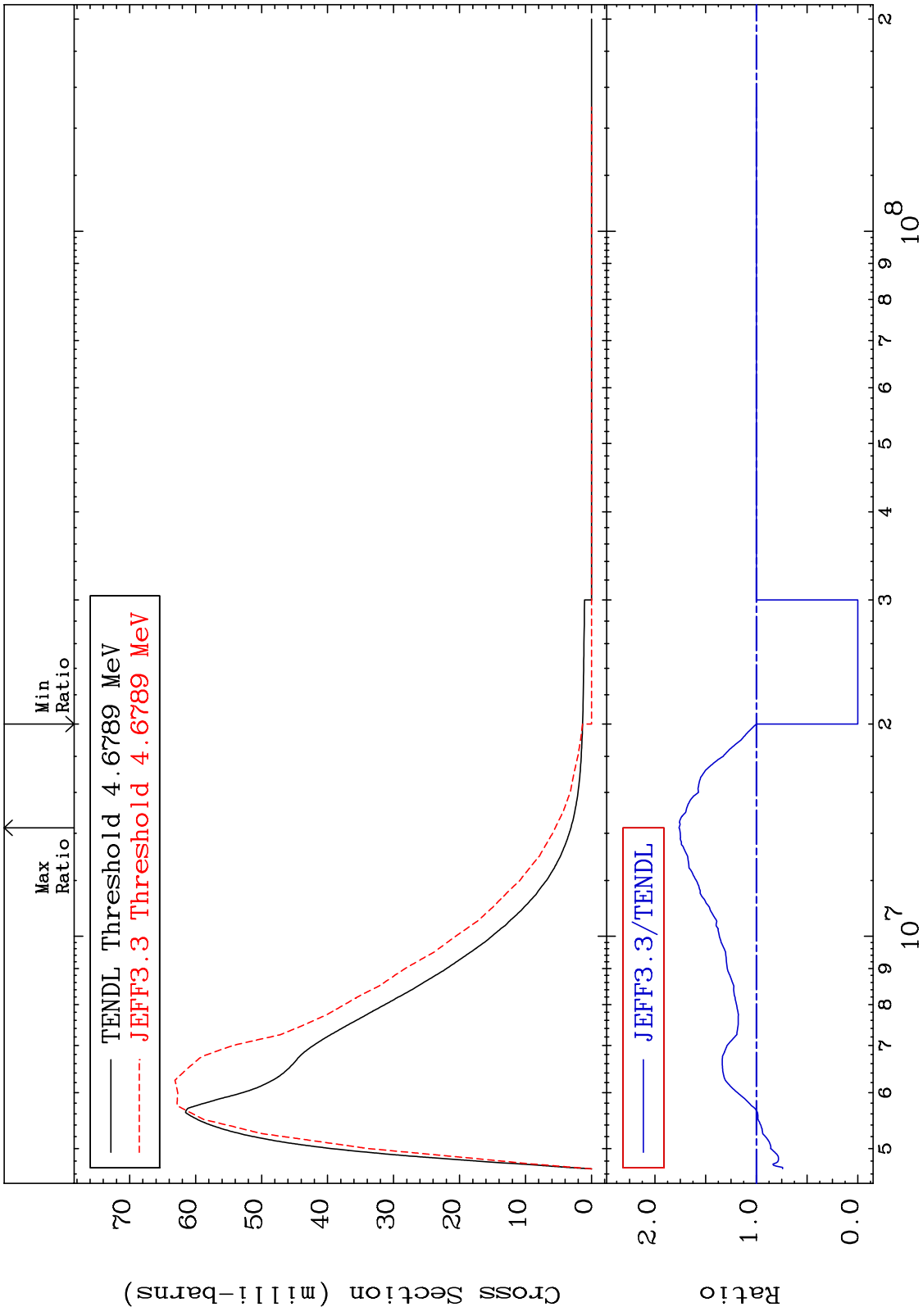


20

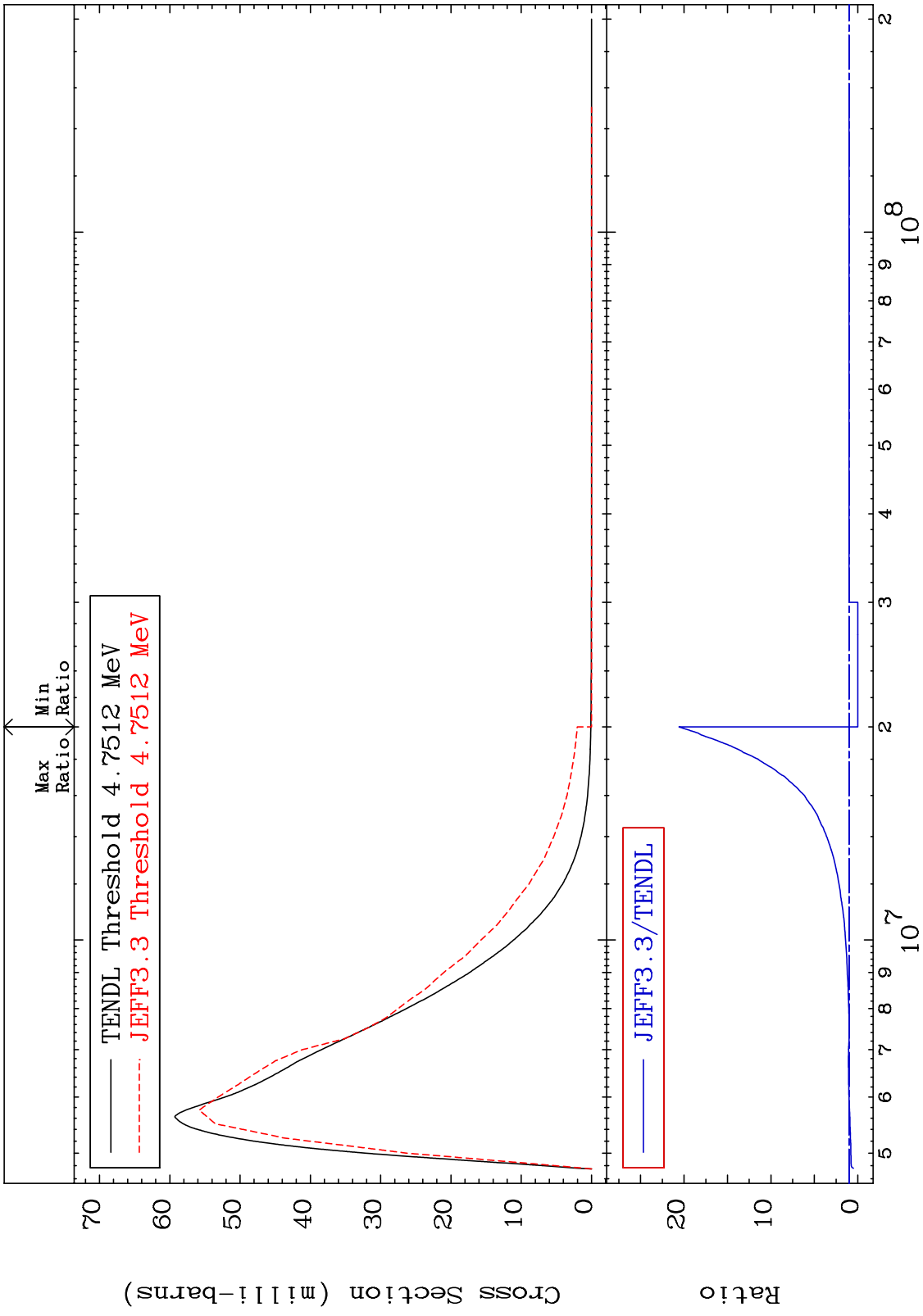
Incident Energy (eV)

13-AI-27

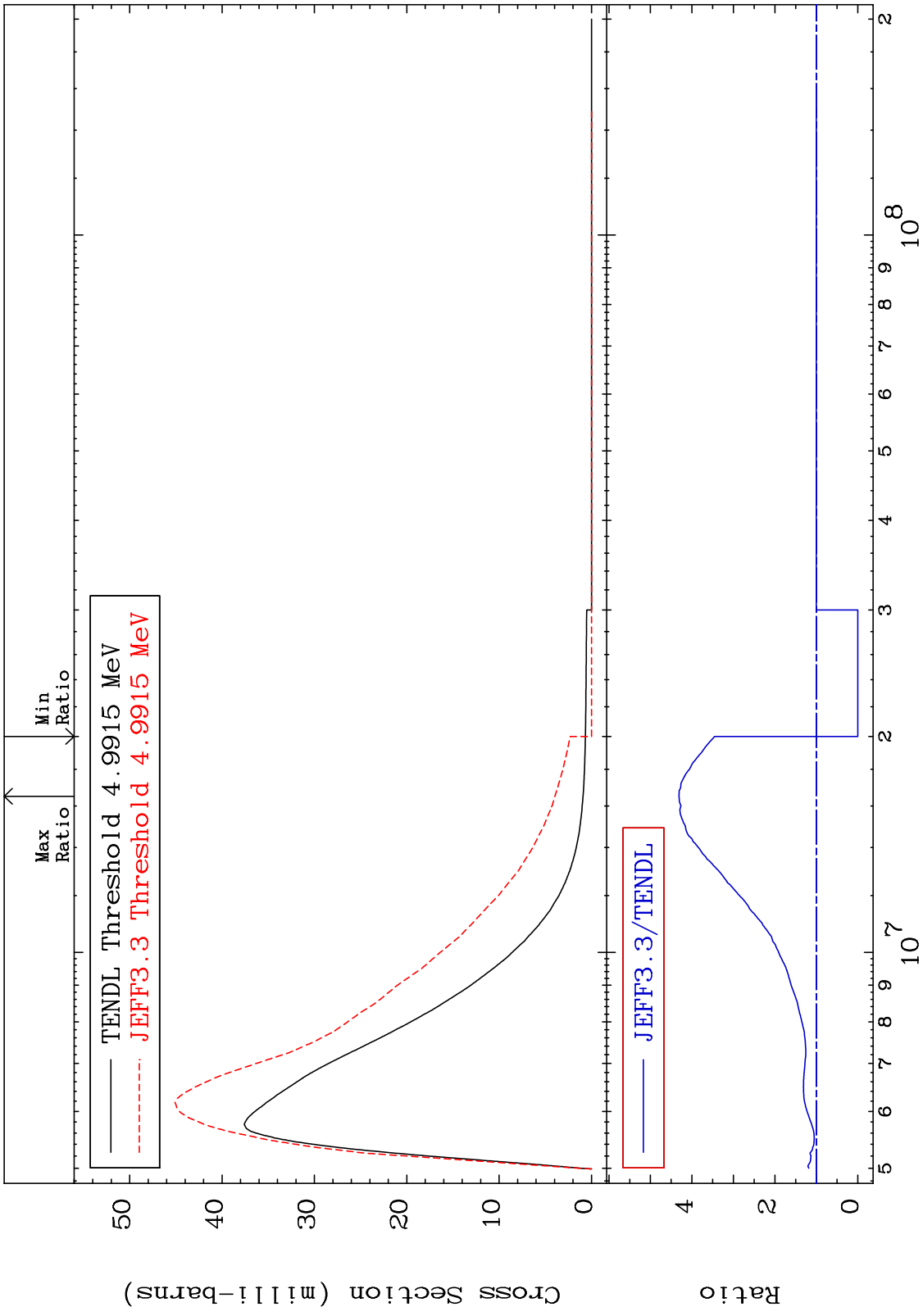
MAT 1325 MT= 61 (n,n') Level Cross Section -100.0 To 76.15 % 13-AI-27



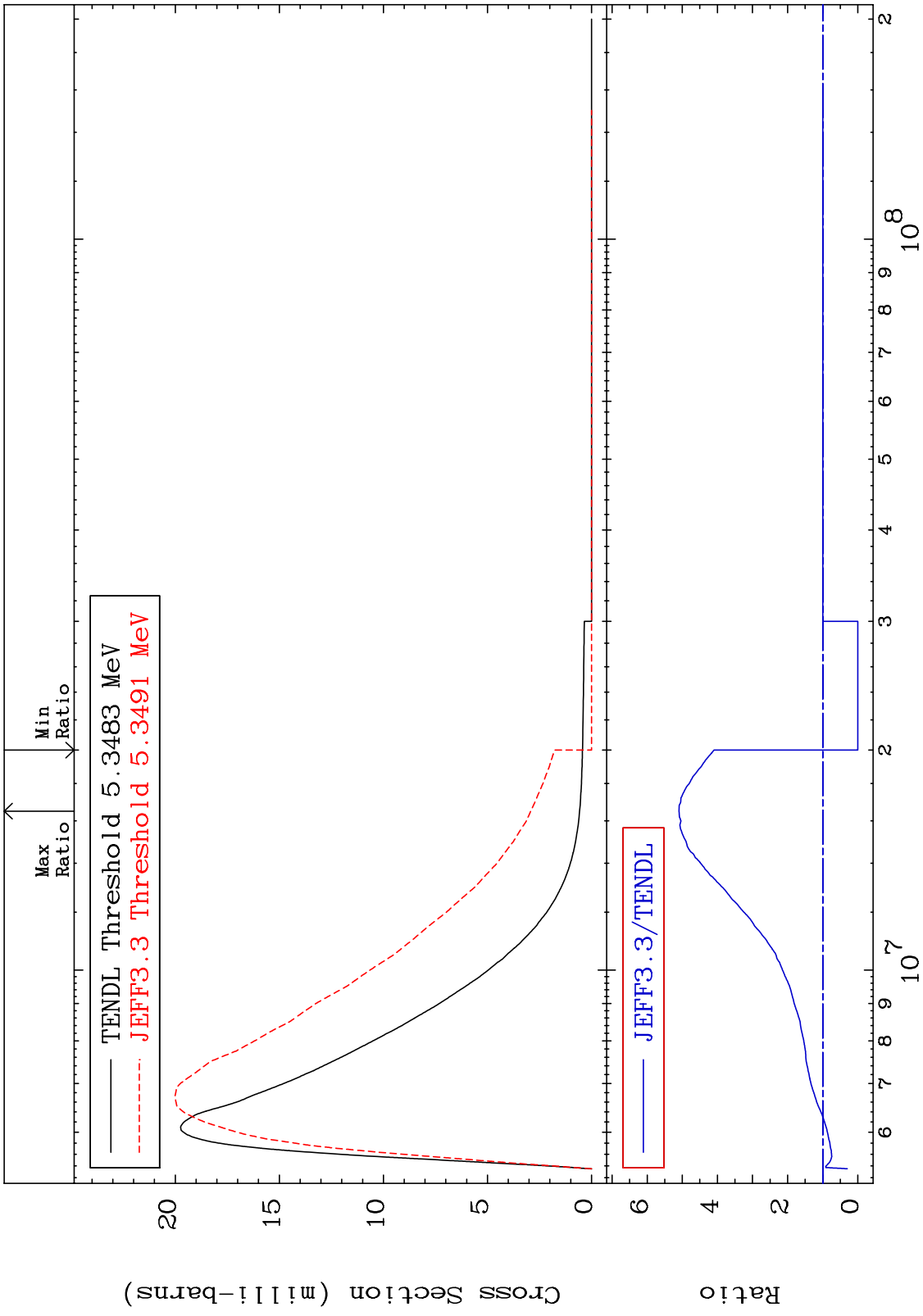
MAT 1325 MT= 62 (n,n') Level Cross Section -100.0 To 1958. % 13-AI-27



MAT 1325 MT= 63 (n,n') Level Cross Section -100.0 To 331.0 % 13-AI-27



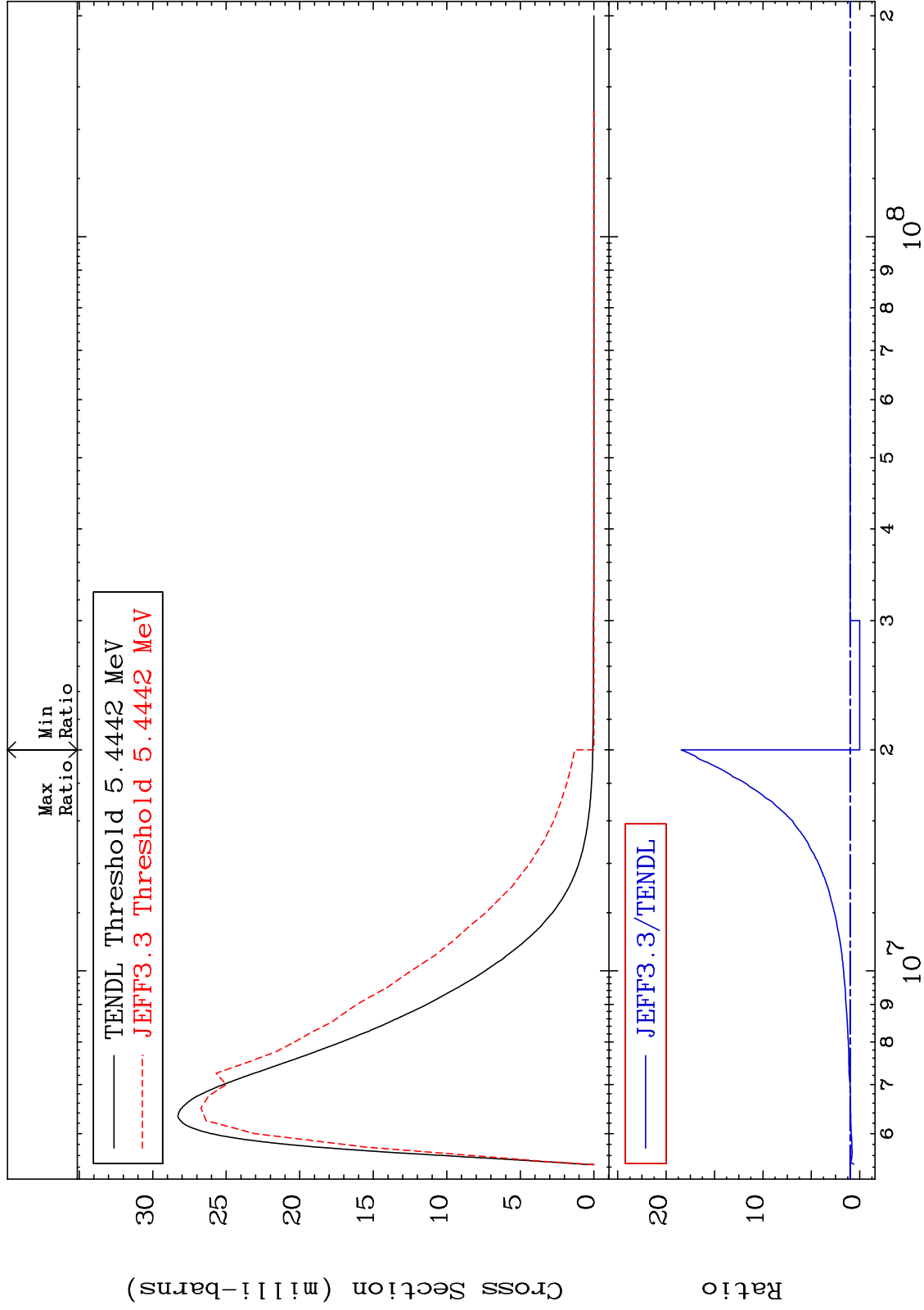
MAT 1325 MT= 64 (n,n') Level Cross Section -100.0 To 409.2 % 13-AI-27



MAT 1325

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

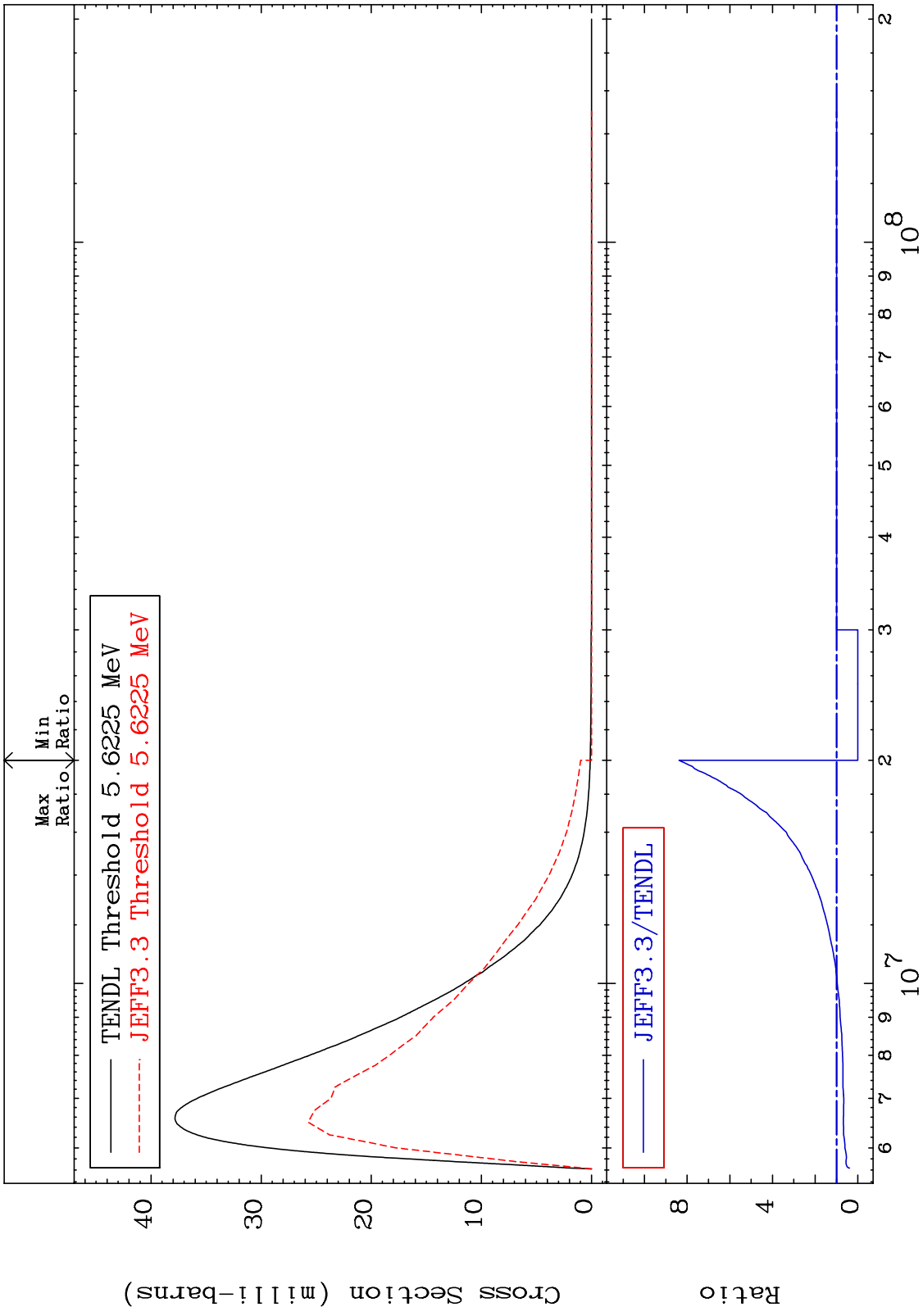
13-AI-27
-100.0 To 1744. %



25

13-AI-27

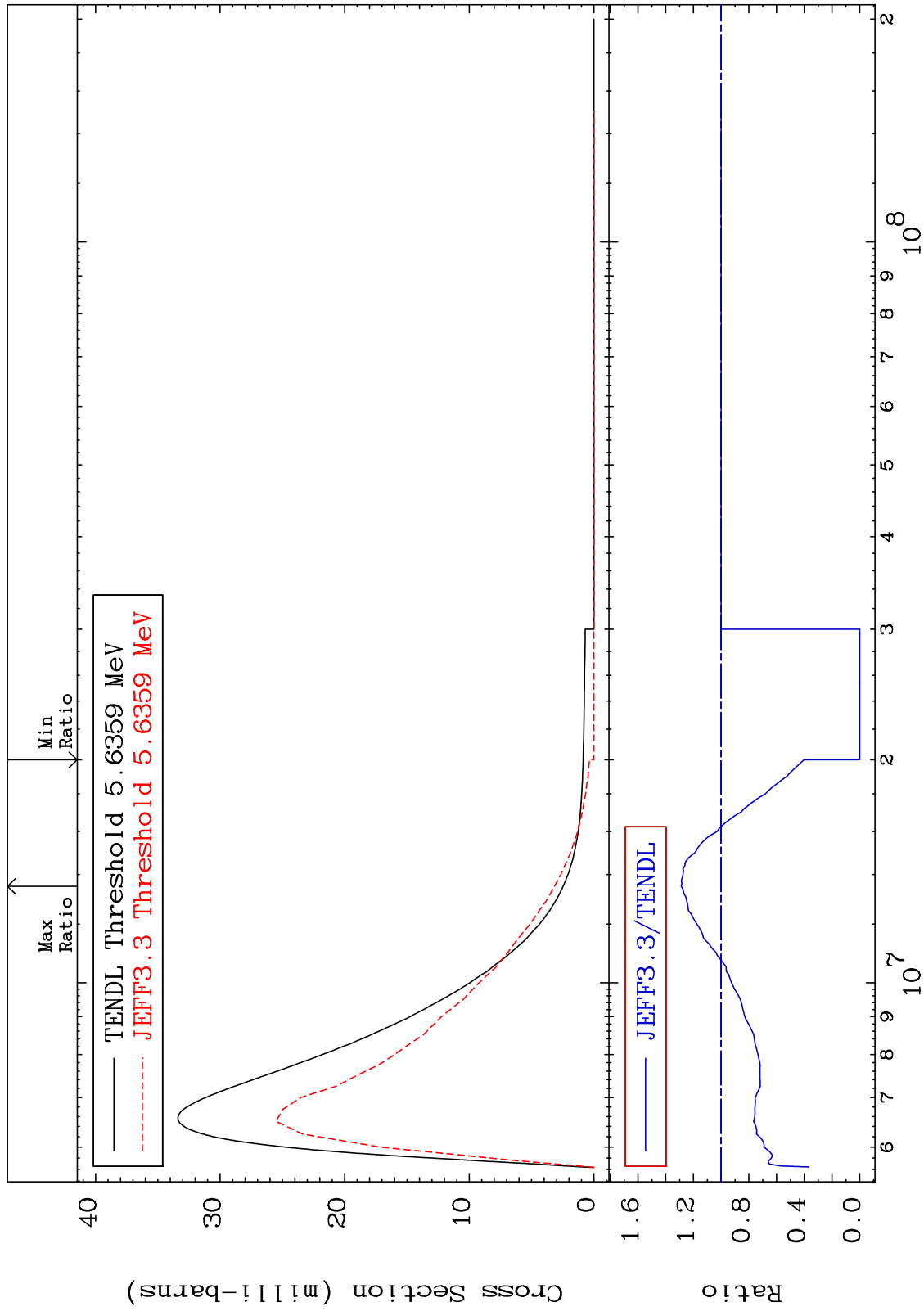
MAT 1325 MT= 66 (n,n') Level Cross Section -100.0 To 738.0 % 13-AI-27



MAT 1325

MT= 67 (n,n') Level
Cross Section

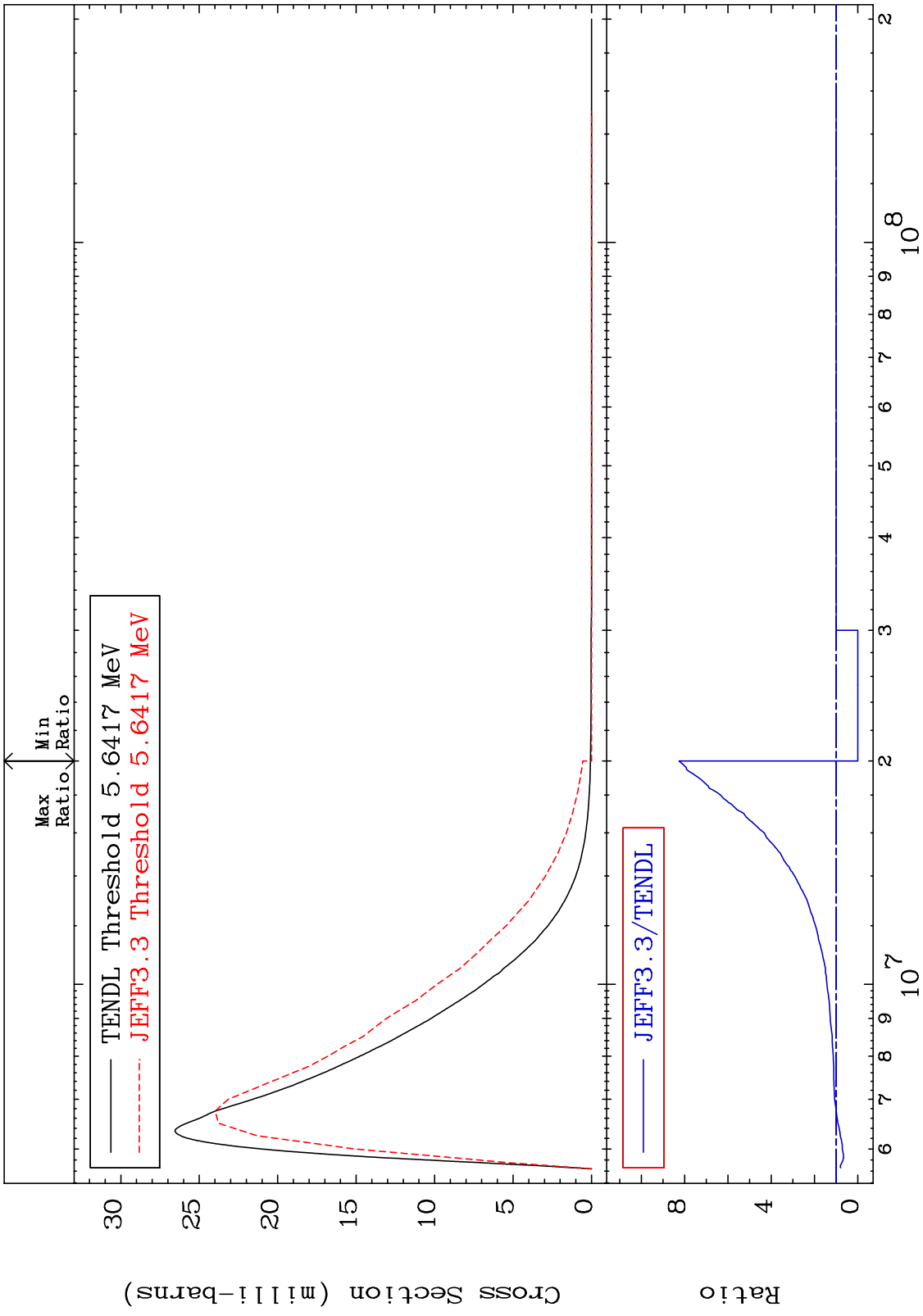
13-AI-27
-100.0 To 28.80 %



27

13-AI-27

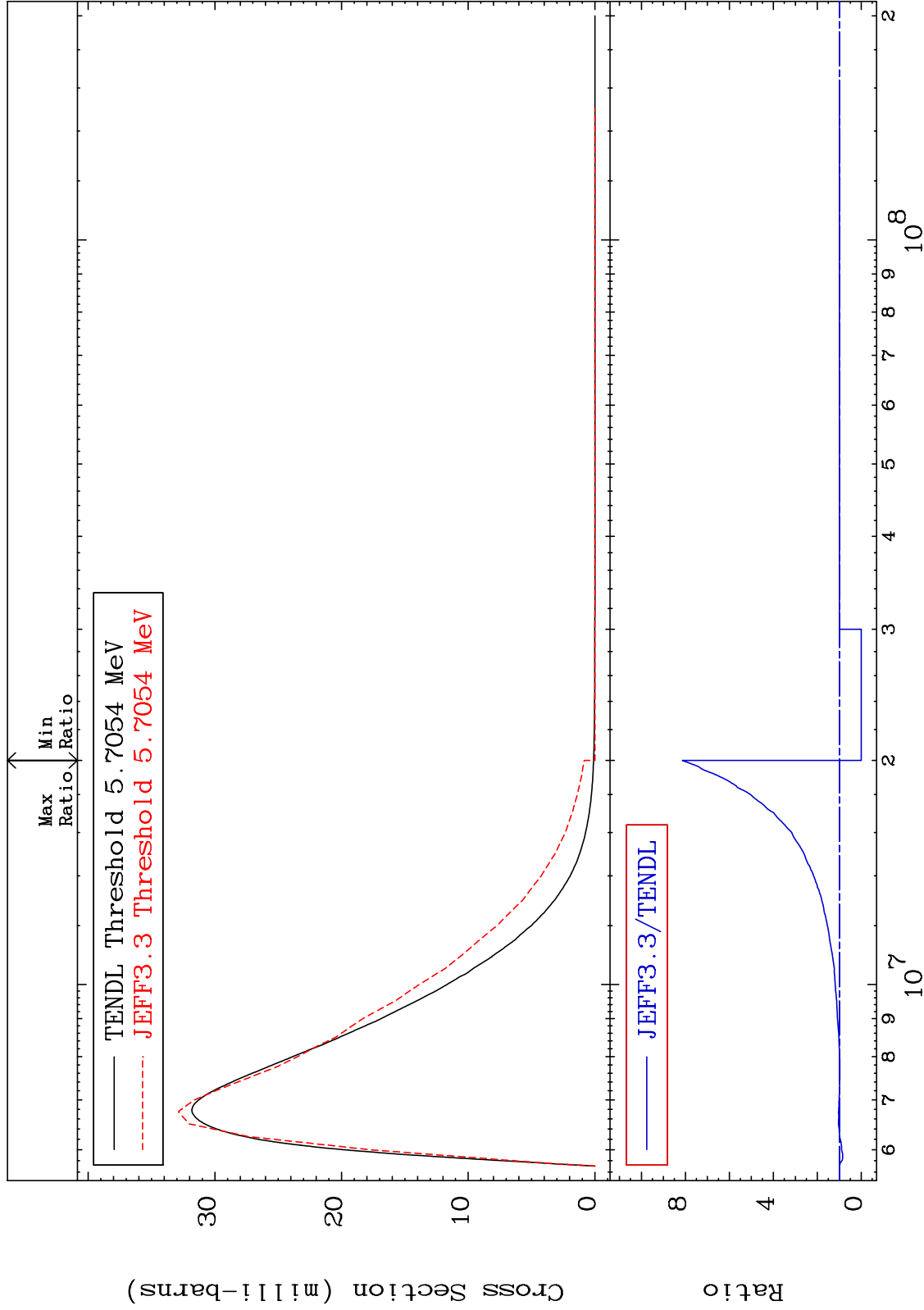
MAT 1325 MT= 68 (n,n') Level Cross Section -100.0 To 726.1 % 13-AI-27



MAT 1325

MT= 69 (n,n') Level
Cross Section

13-AI-27
-100.0 To 713.3 %



29

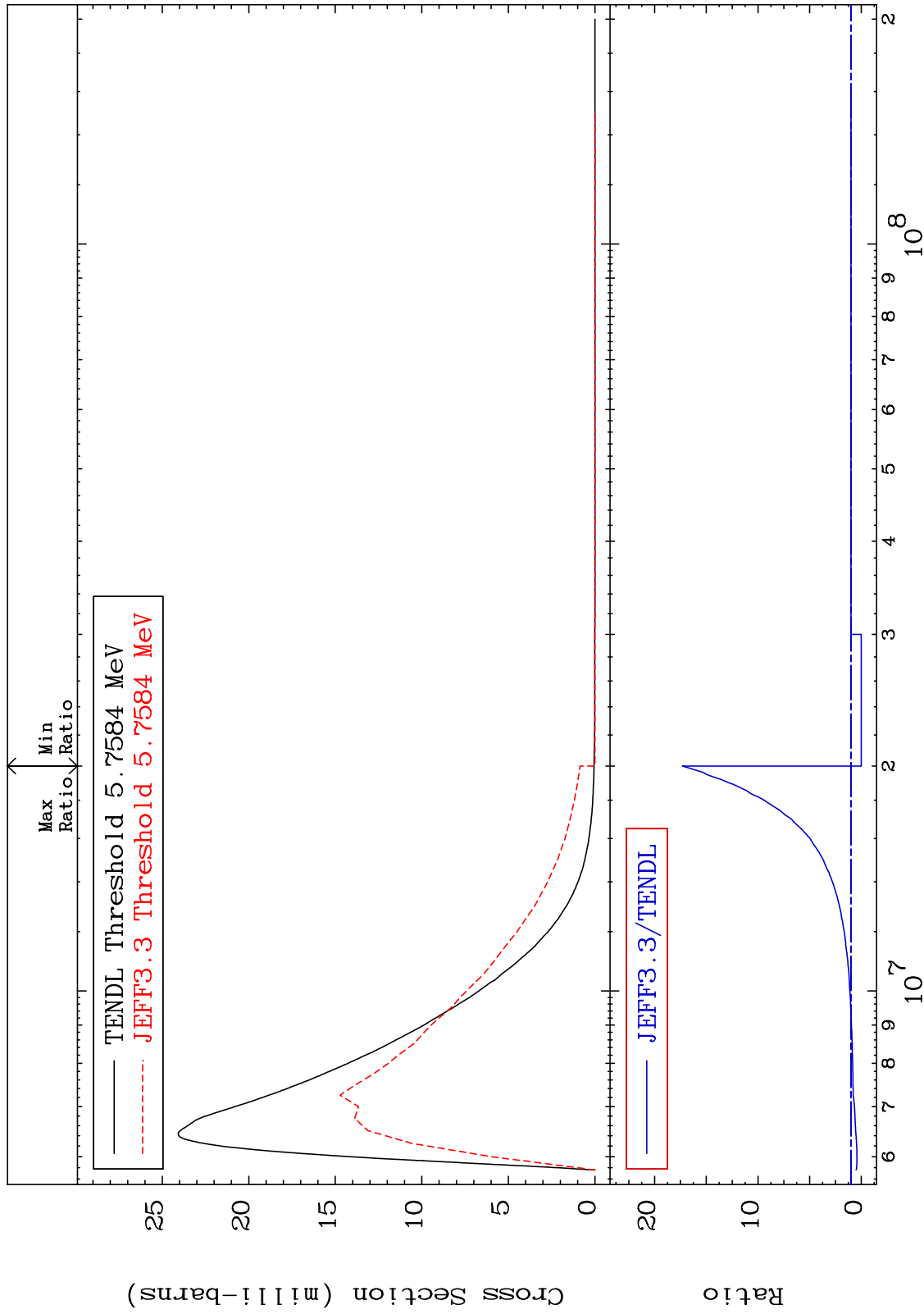
Incident Energy (eV)

13-AI-27

MAT 1325

MT= 70 (n,n') Level
Cross Section

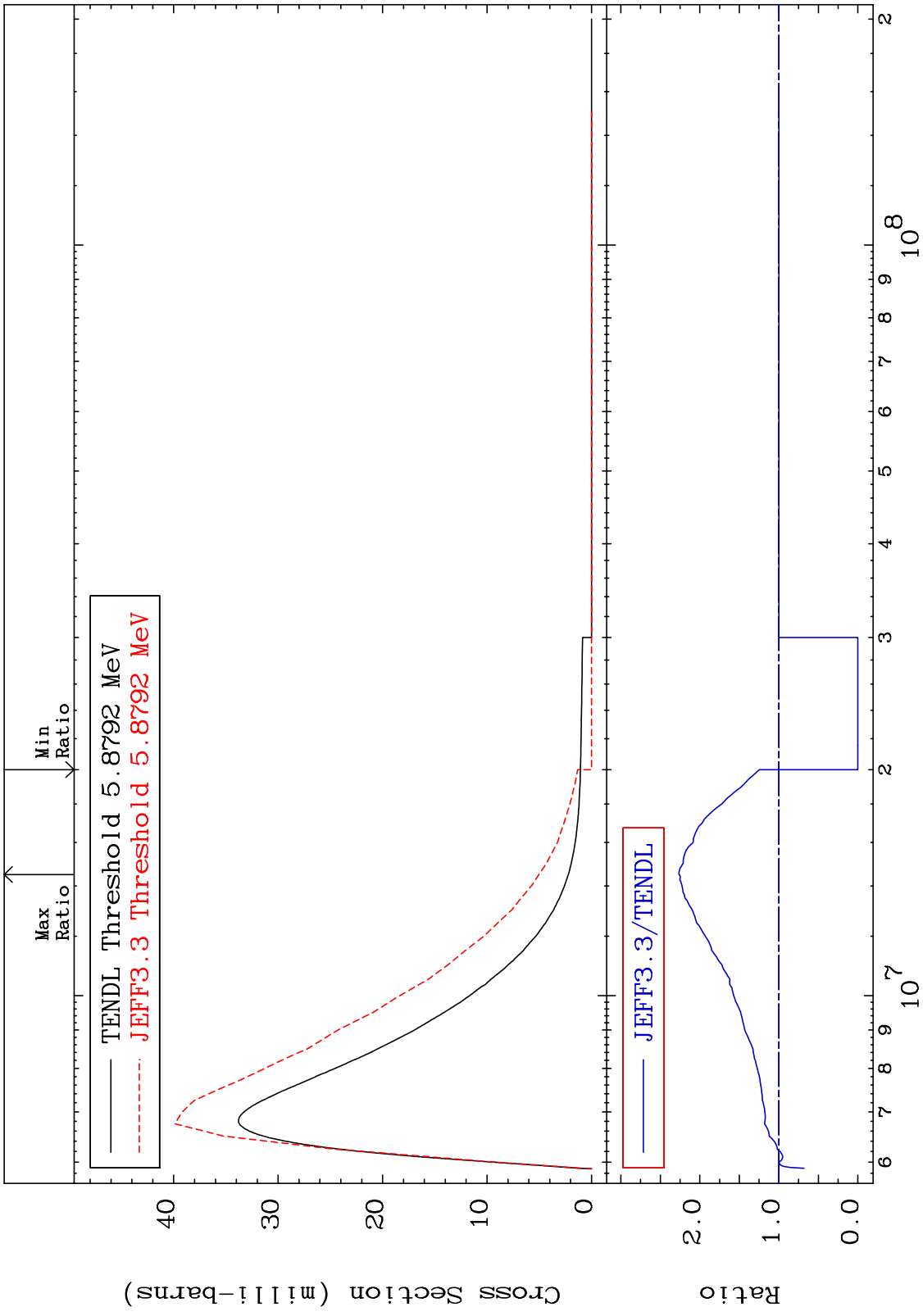
13-AI-27
-100.0 To 1631. %



30

13-AI-27

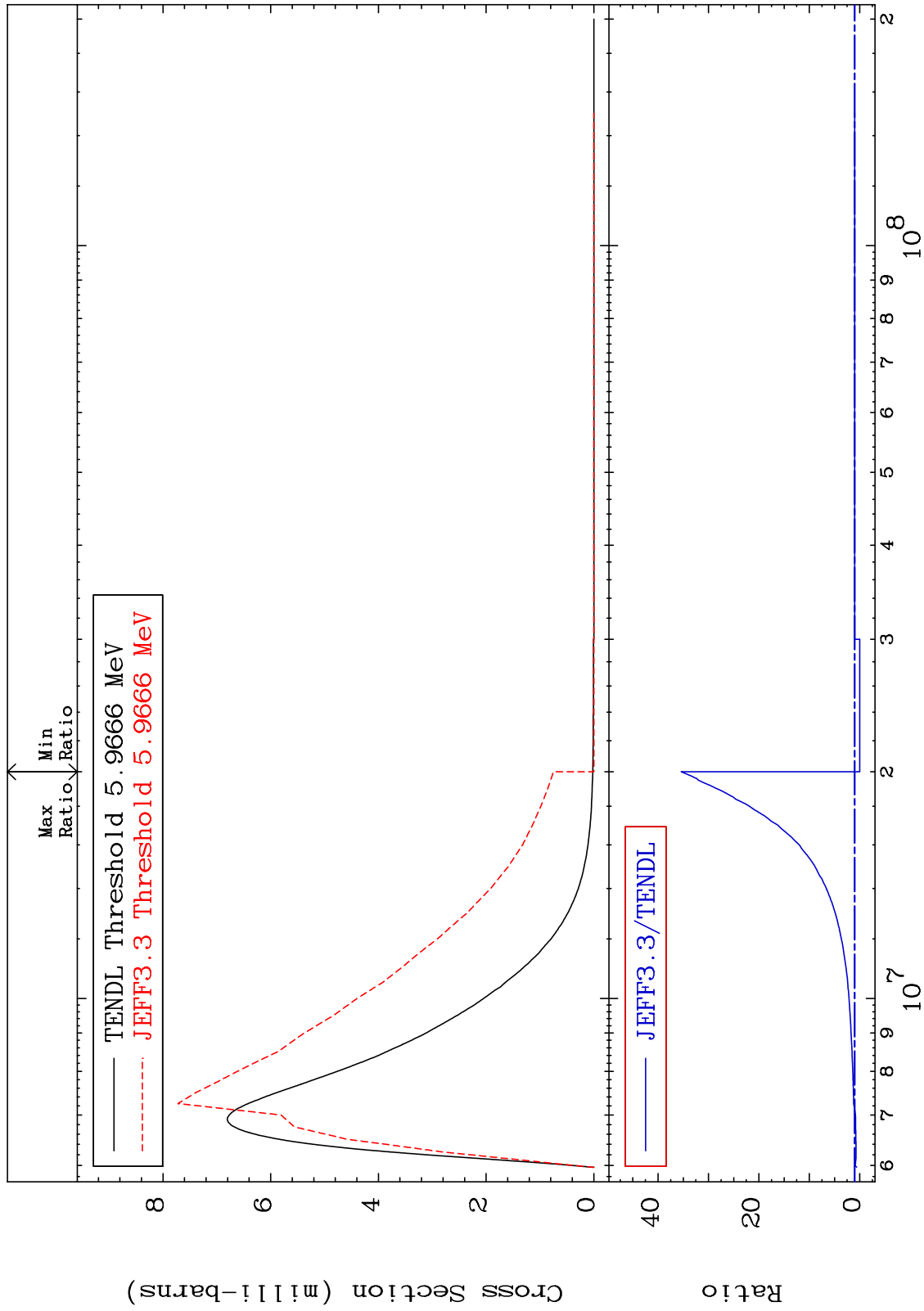
MAT 1325 MT= 71 (n,n') Level Cross Section -100.0 To 126.3 % 13-AI-27



MAT 1325

MT= 72 (n,n') Level
Cross Section

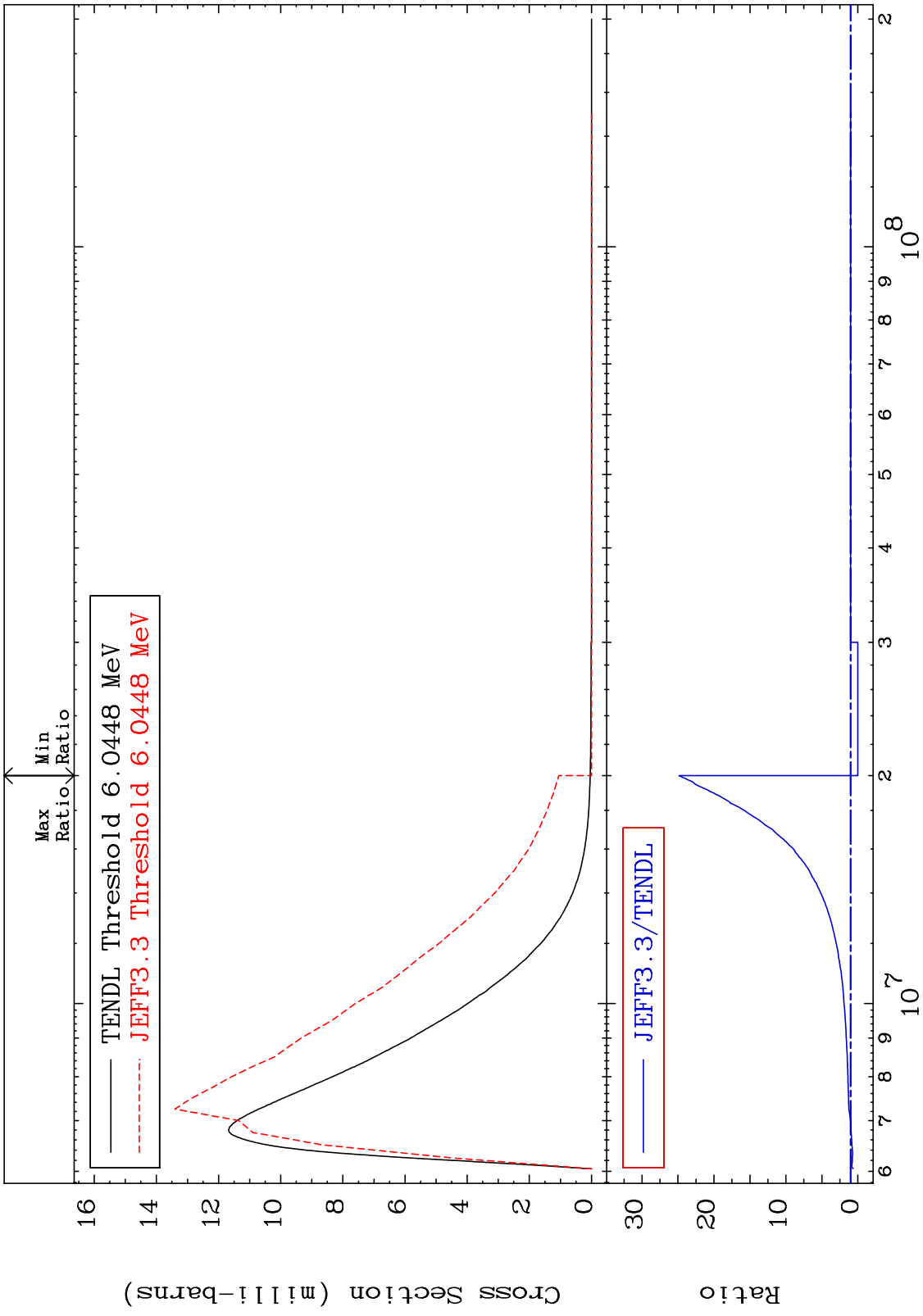
13-AI-27
-100.0 To 3440. %



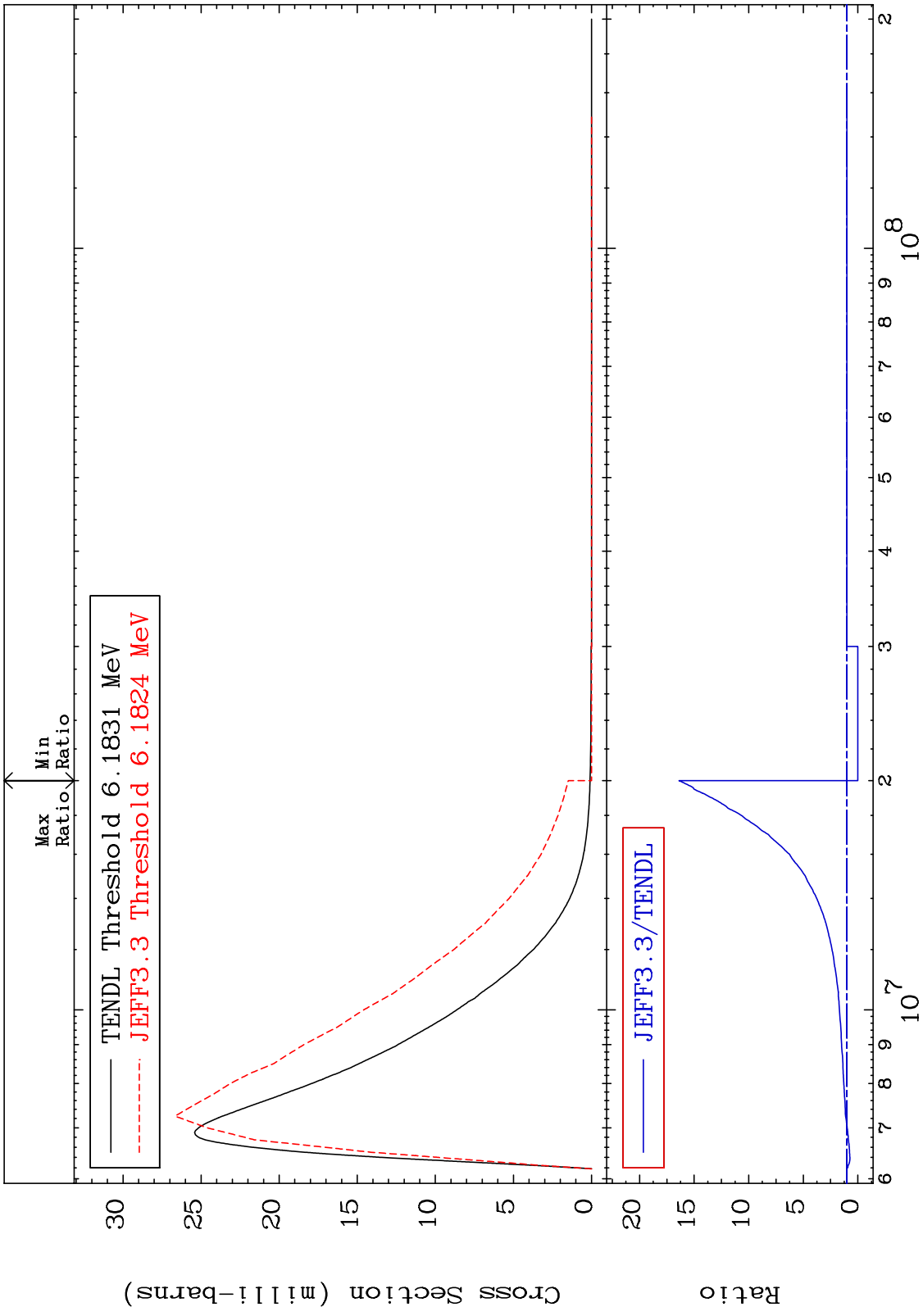
32

13-AI-27

MAT 1325 MT= 73 (n,n') Level Cross Section -100.0 To 2385. % 13-AI-27



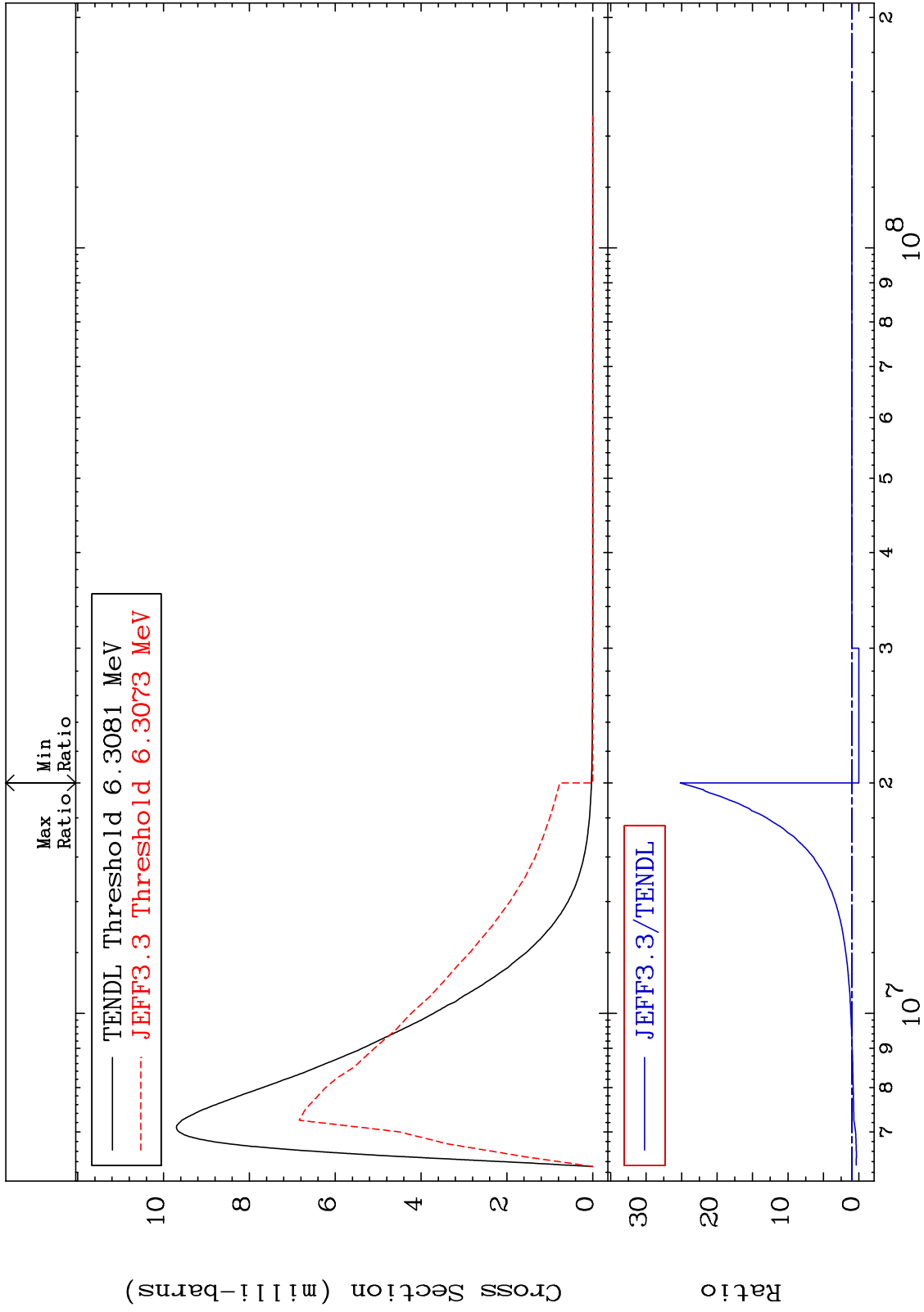
MAT 1325 MT= 74 (n,n') Level Cross Section -100.0 To 1538. % 13-AI-27



MAT 1325

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

13-AI-27
-100.0 To 2419. %

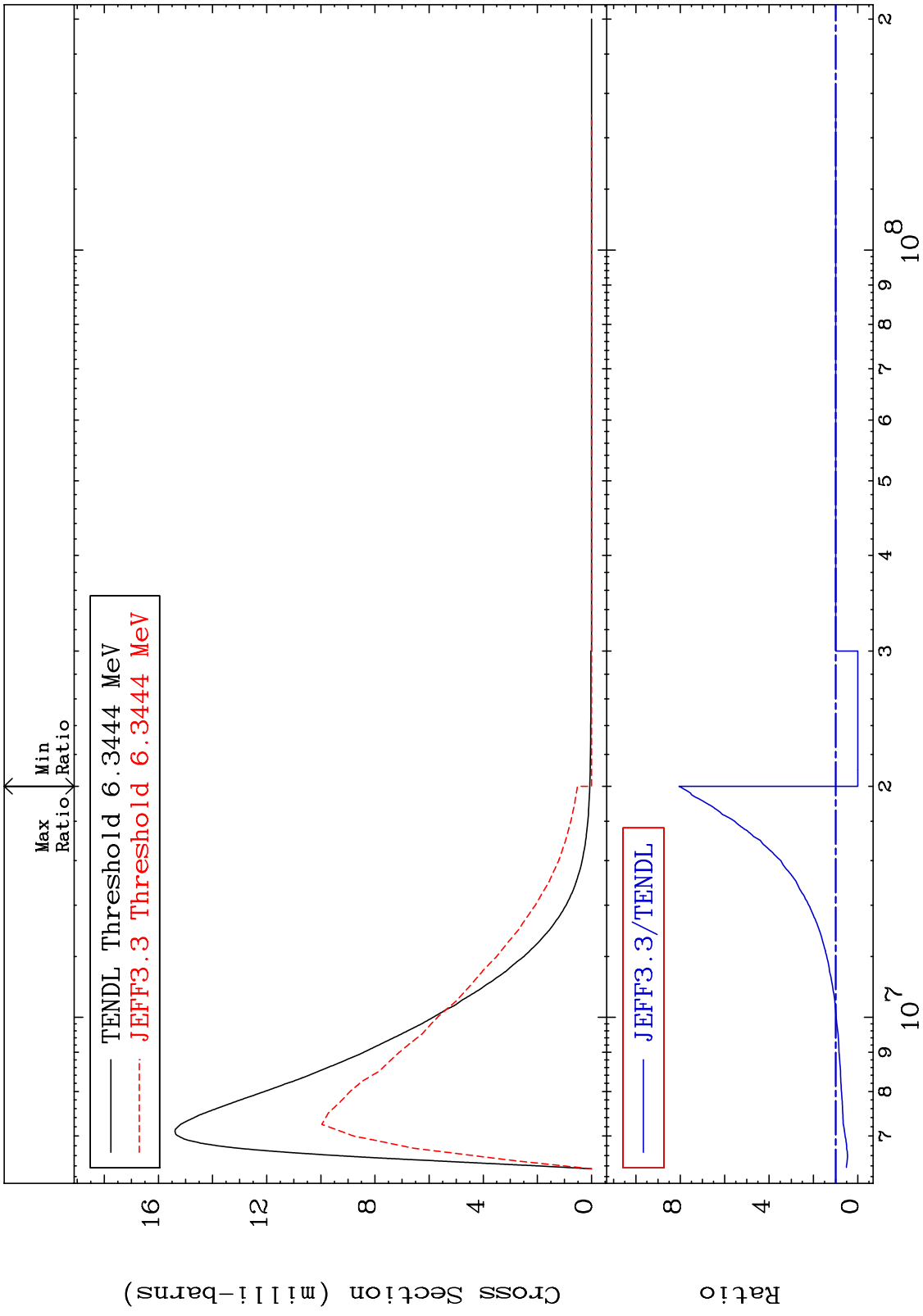


35

Incident Energy (eV)

13-AI-27

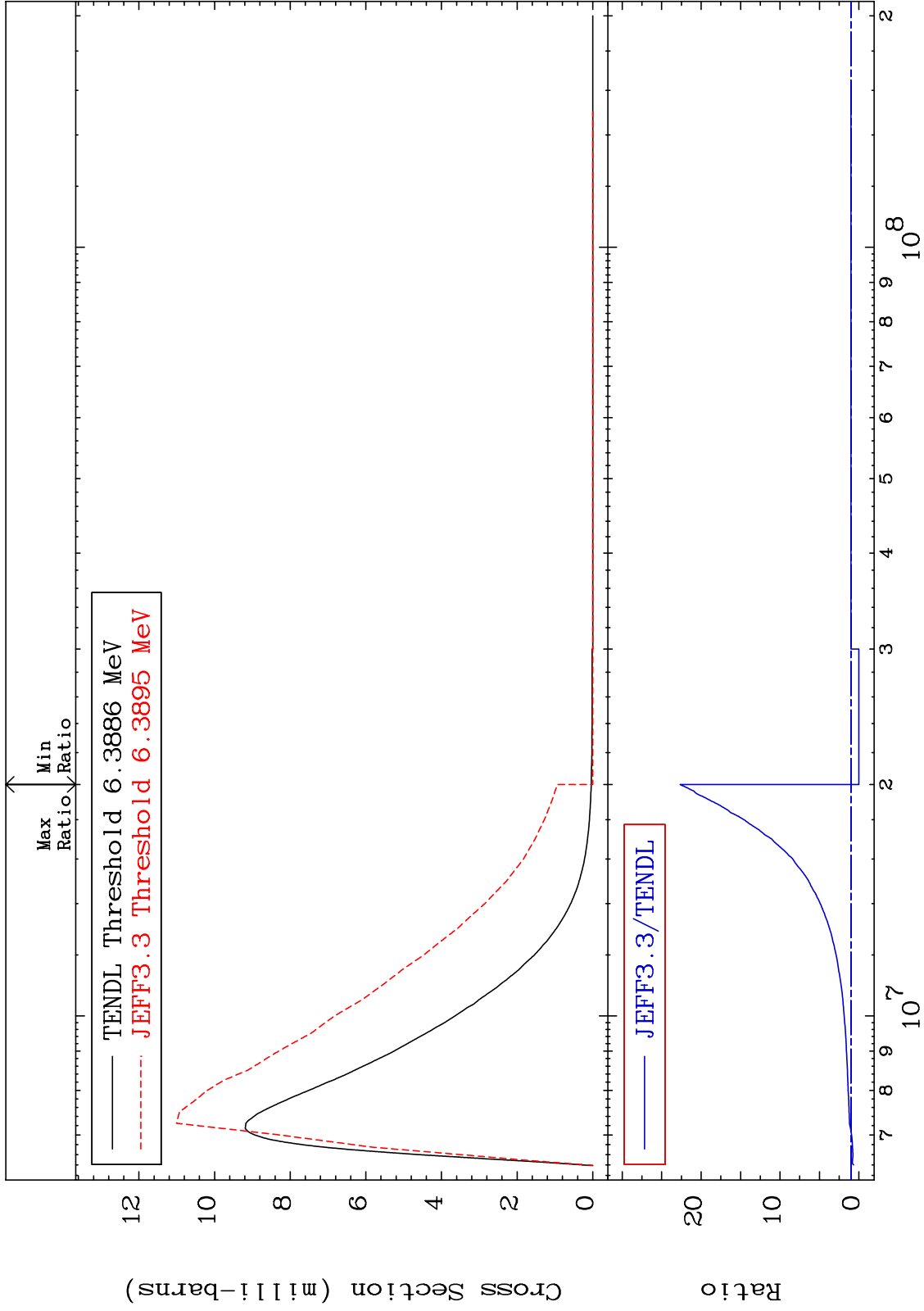
MAT 1325 MT= 76 (n,n') Level Cross Section -100.0 To 705.3 % 13-AI-27



MAT 1325

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

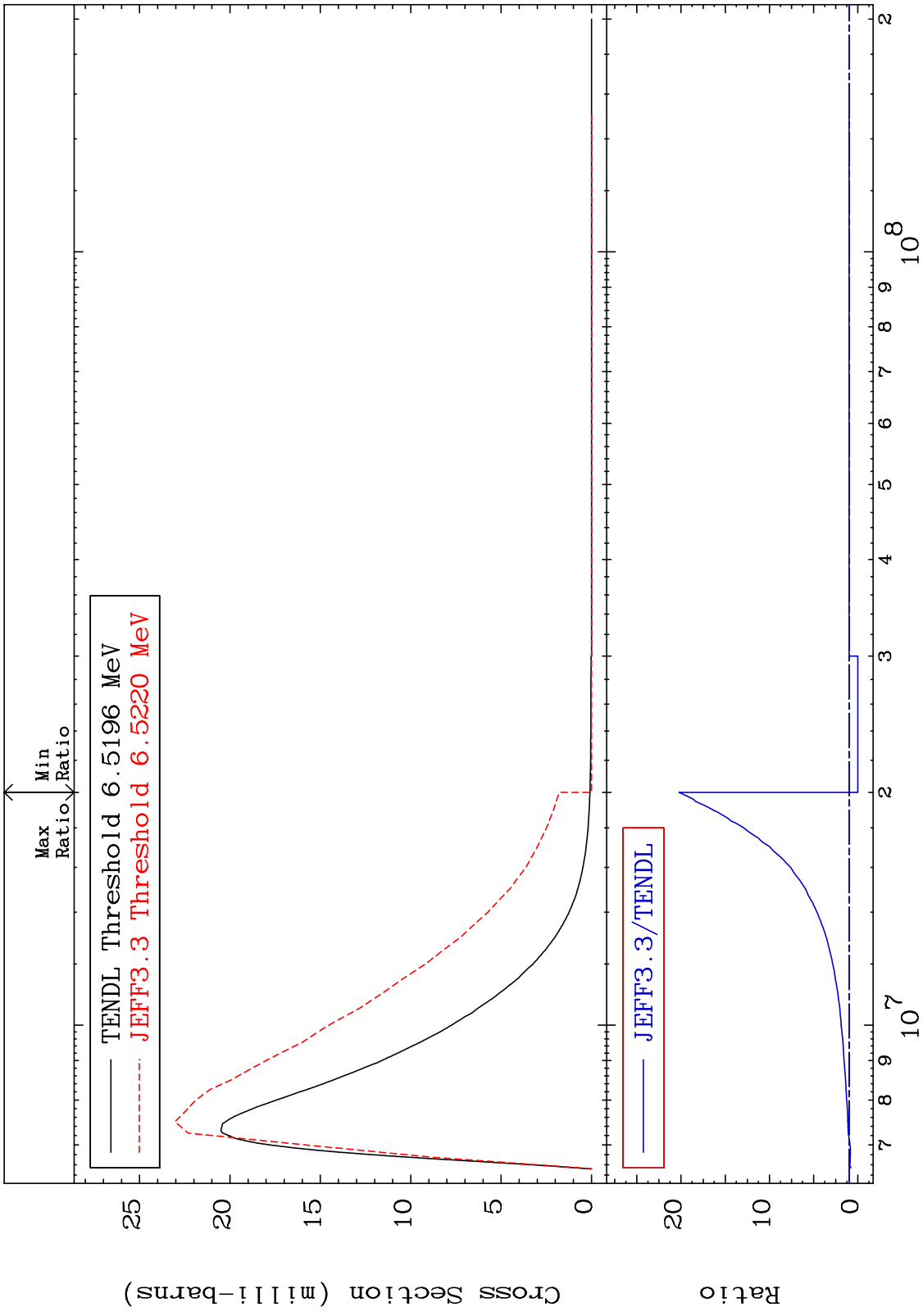
13-AI-27
-100.0 To 2165. %



37

13-AI-27

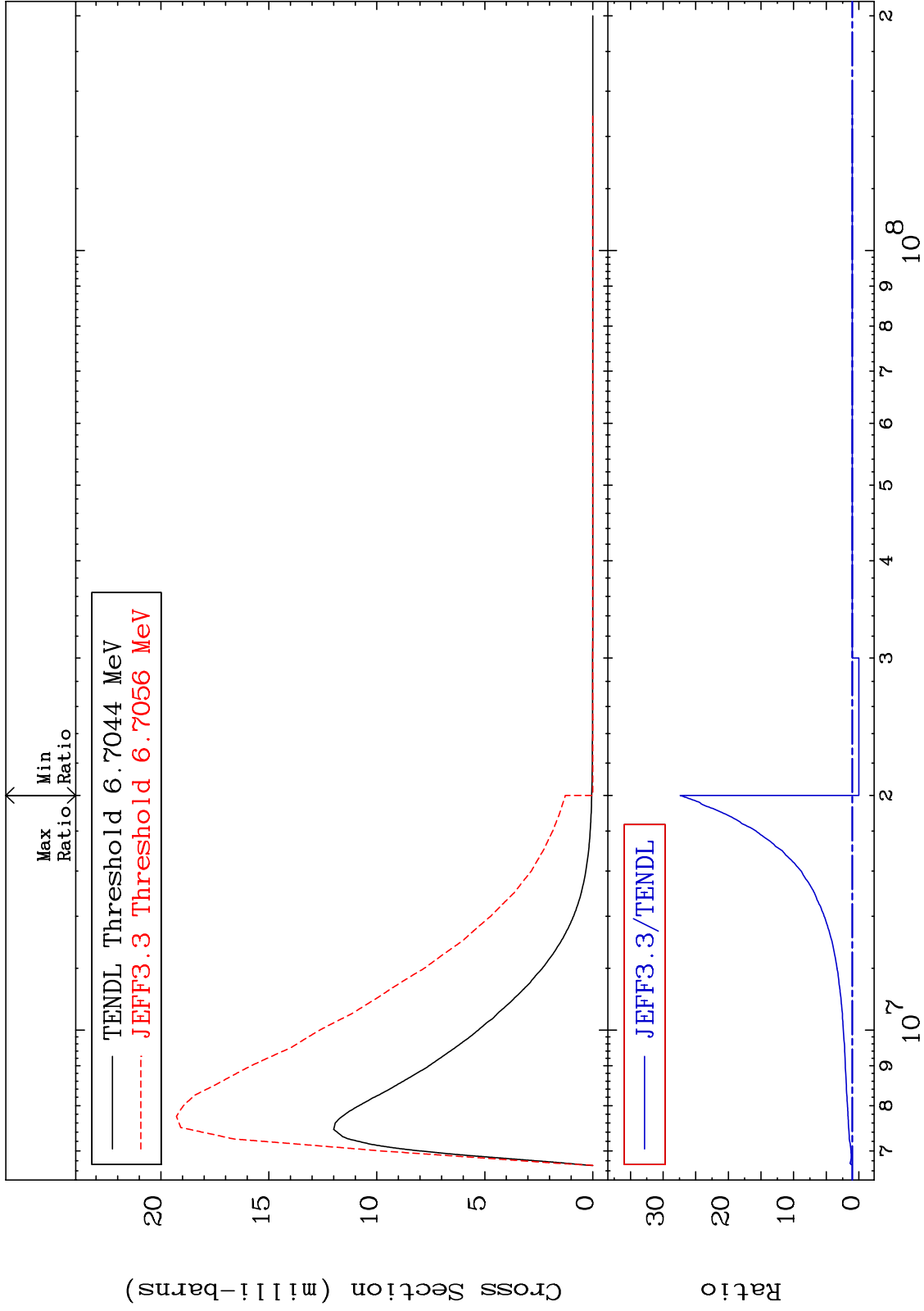
MAT 1325 MT= 78 (n,n') Level Cross Section -100.0 To 1923. % 13-AI-27



MAT 1325

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

13-AI-27
-100.0 To 2638. %

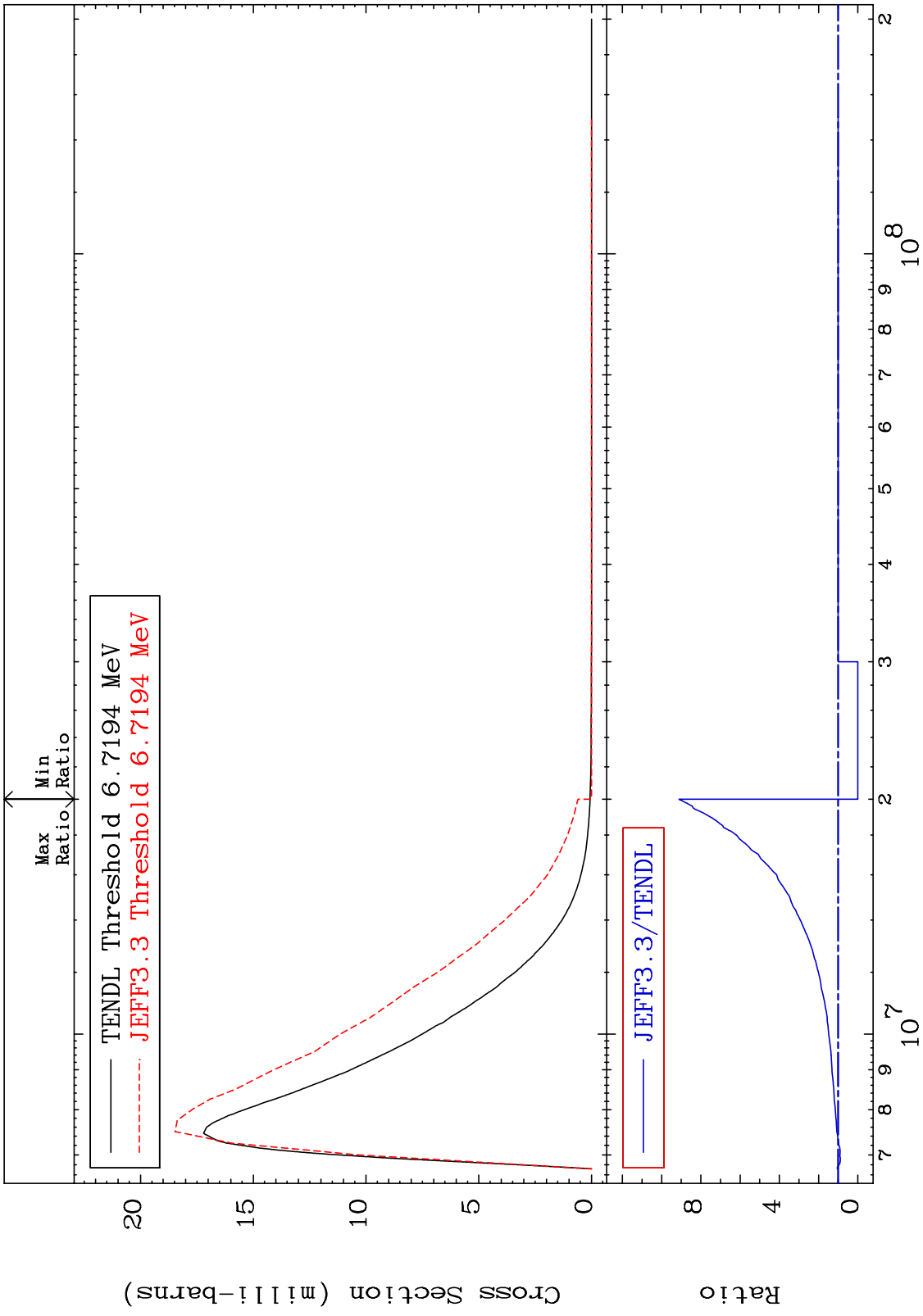


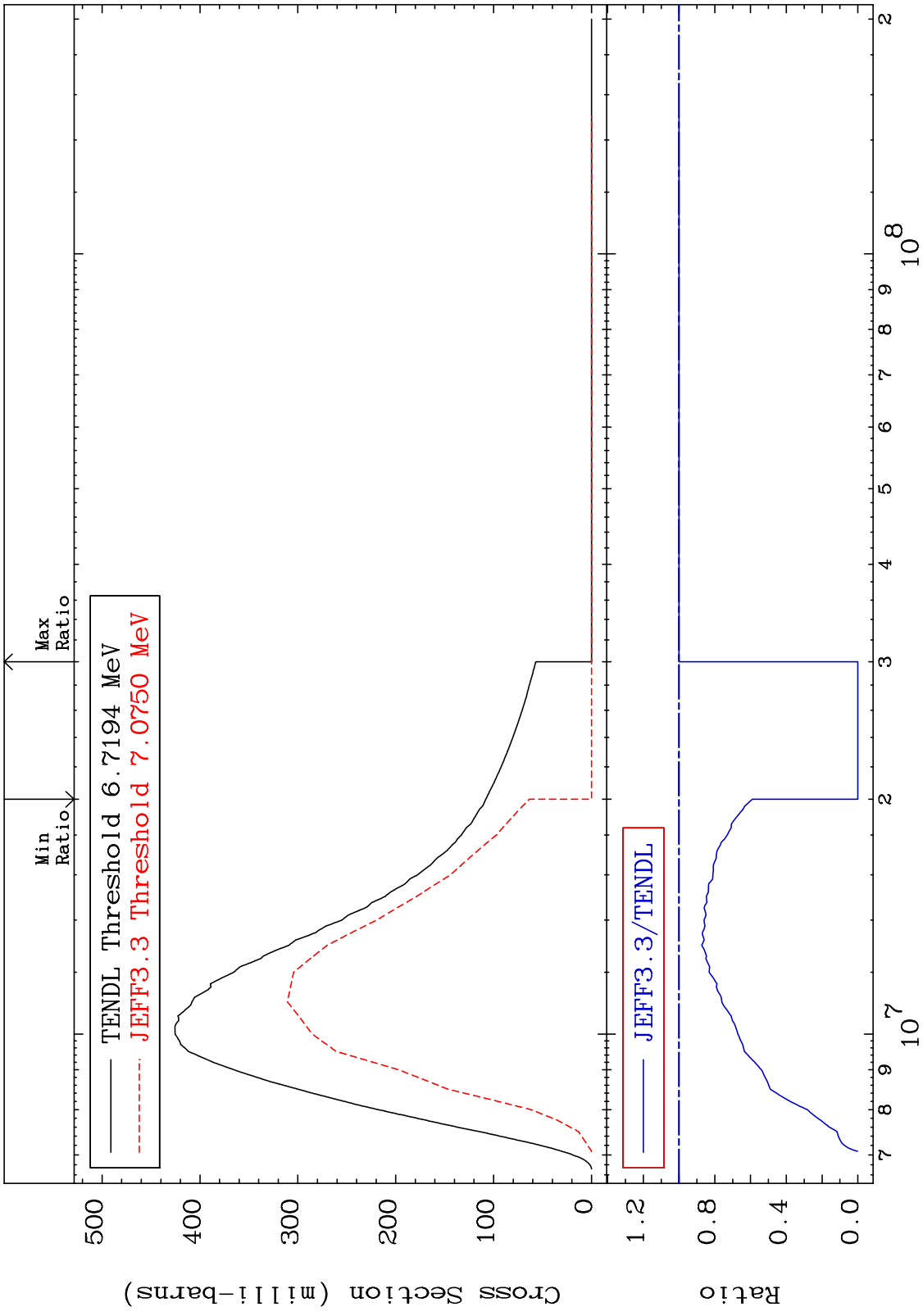
39

Incident Energy (eV)

13-AI-27

MAT 1325 MT= 80 (n,n') Level Cross Section -100.0 To 811.2 % 13-AI-27





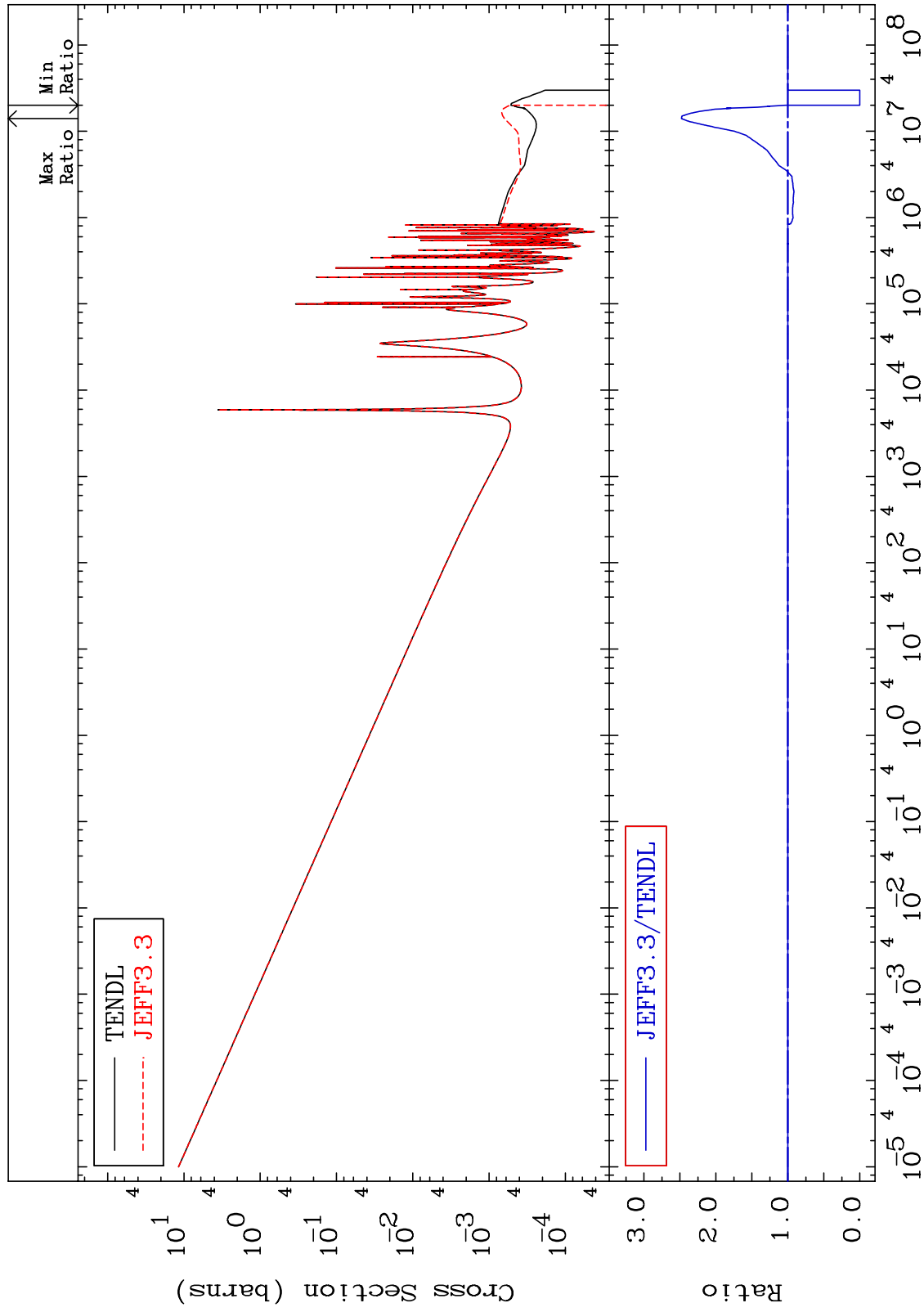
MAT 1325

(n, γ)

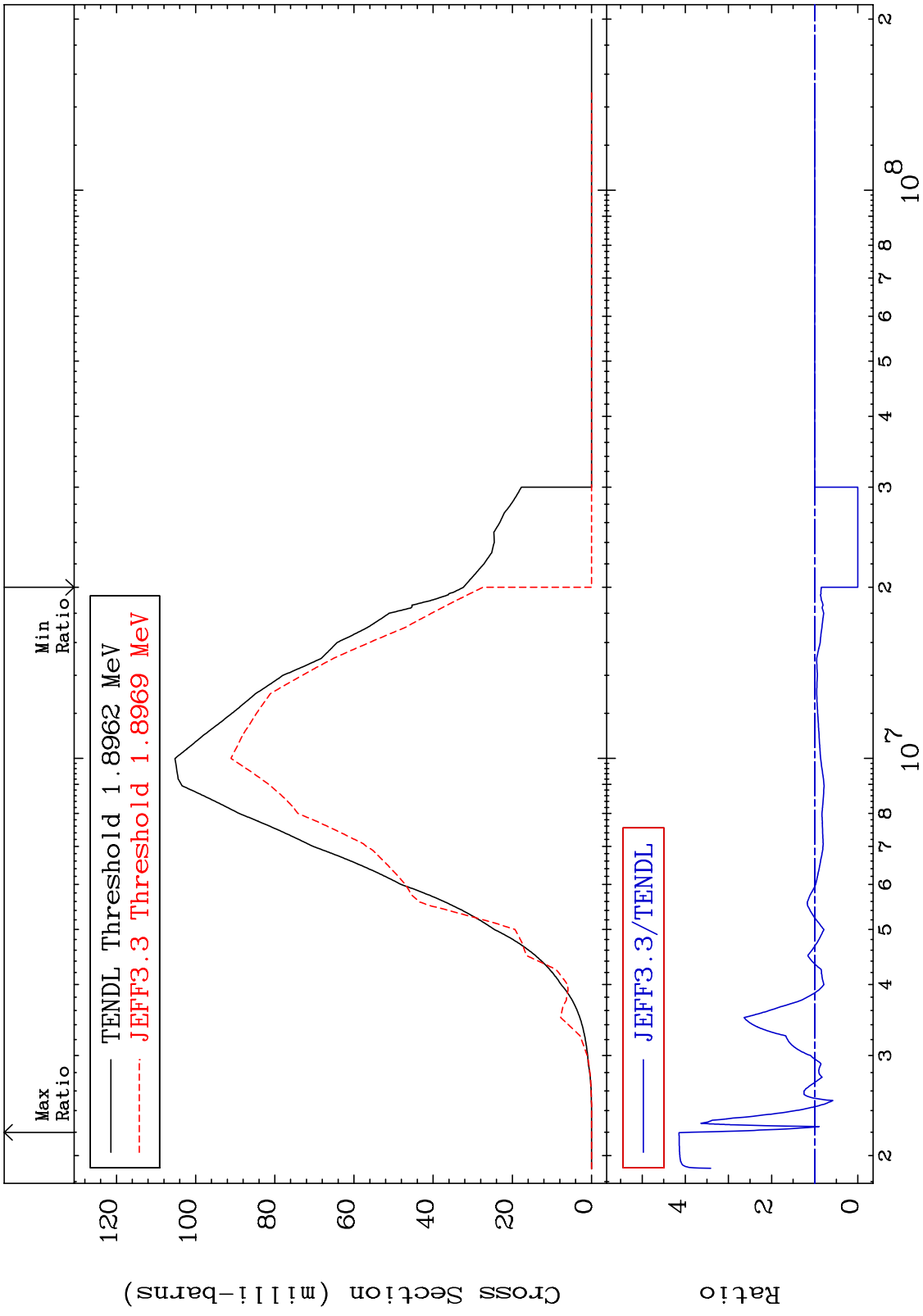
13-AI-27

Cross Section

-100.0 To 147.9 %

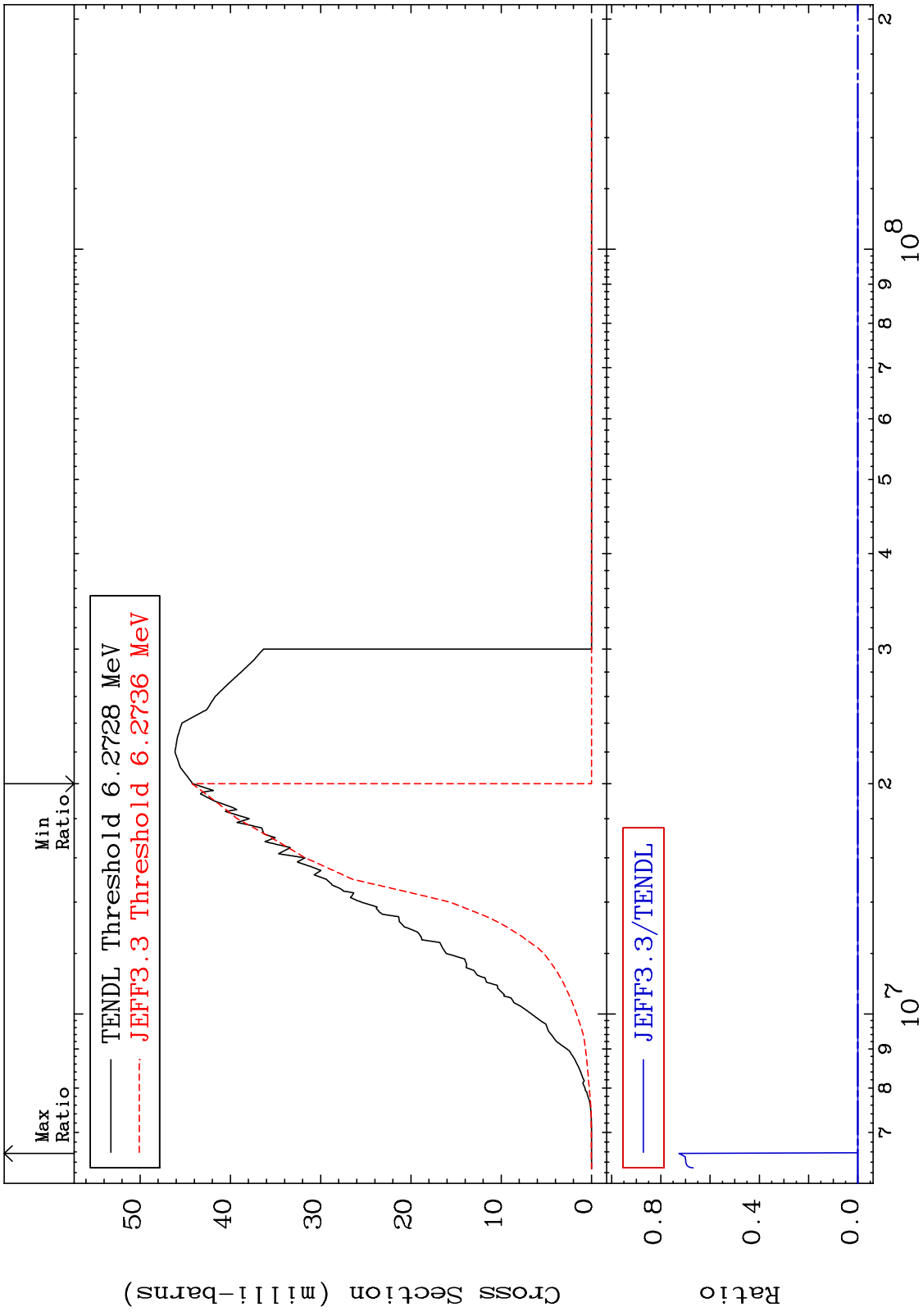


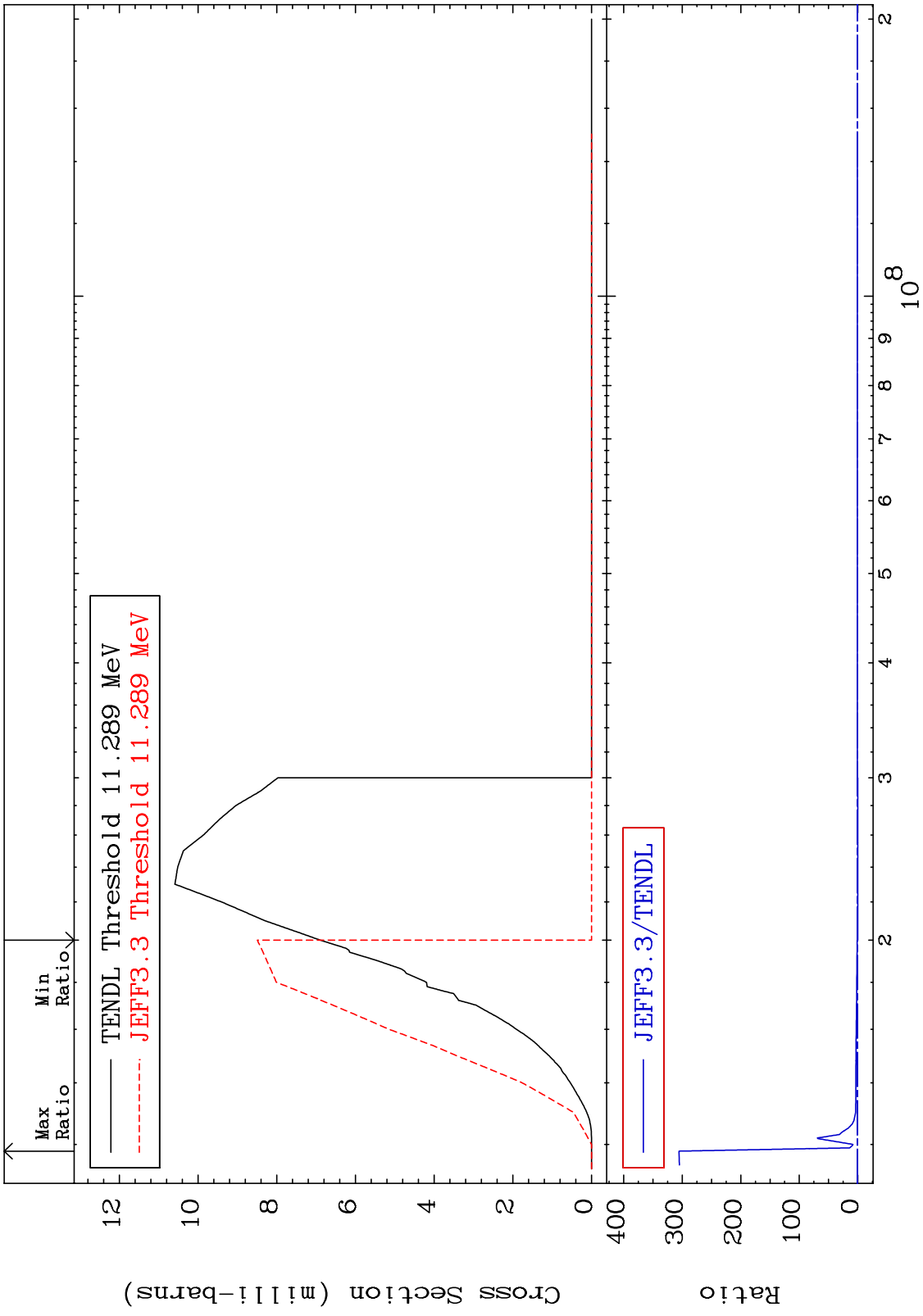
MAT 1325 (n,p) Cross Section 13-Al-27 -100.0 To 314.6 %

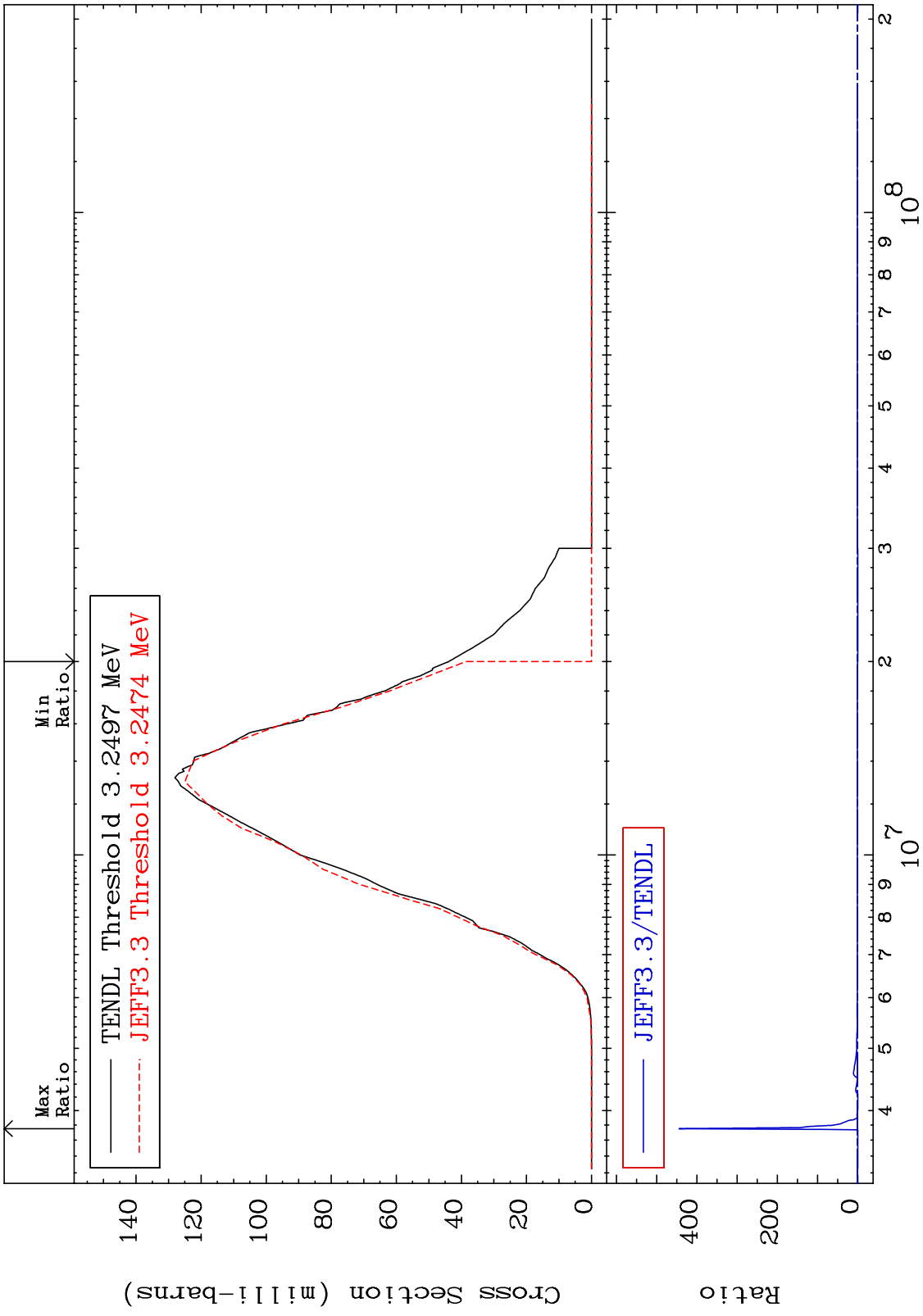


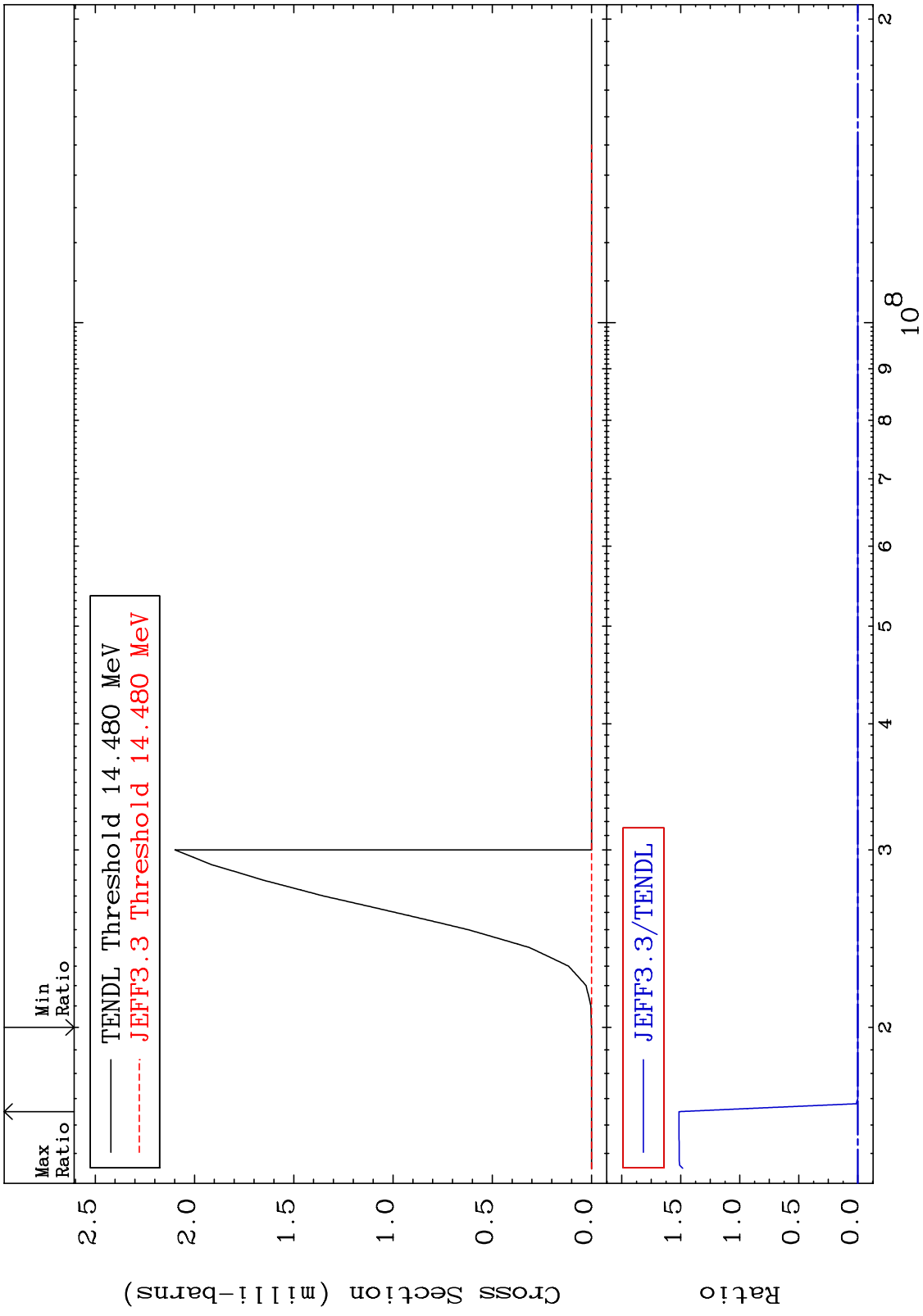
43 13-Al-27

MAT 1325 (n,d) Cross Section 13-AI-27 -100.0 To 9999. %

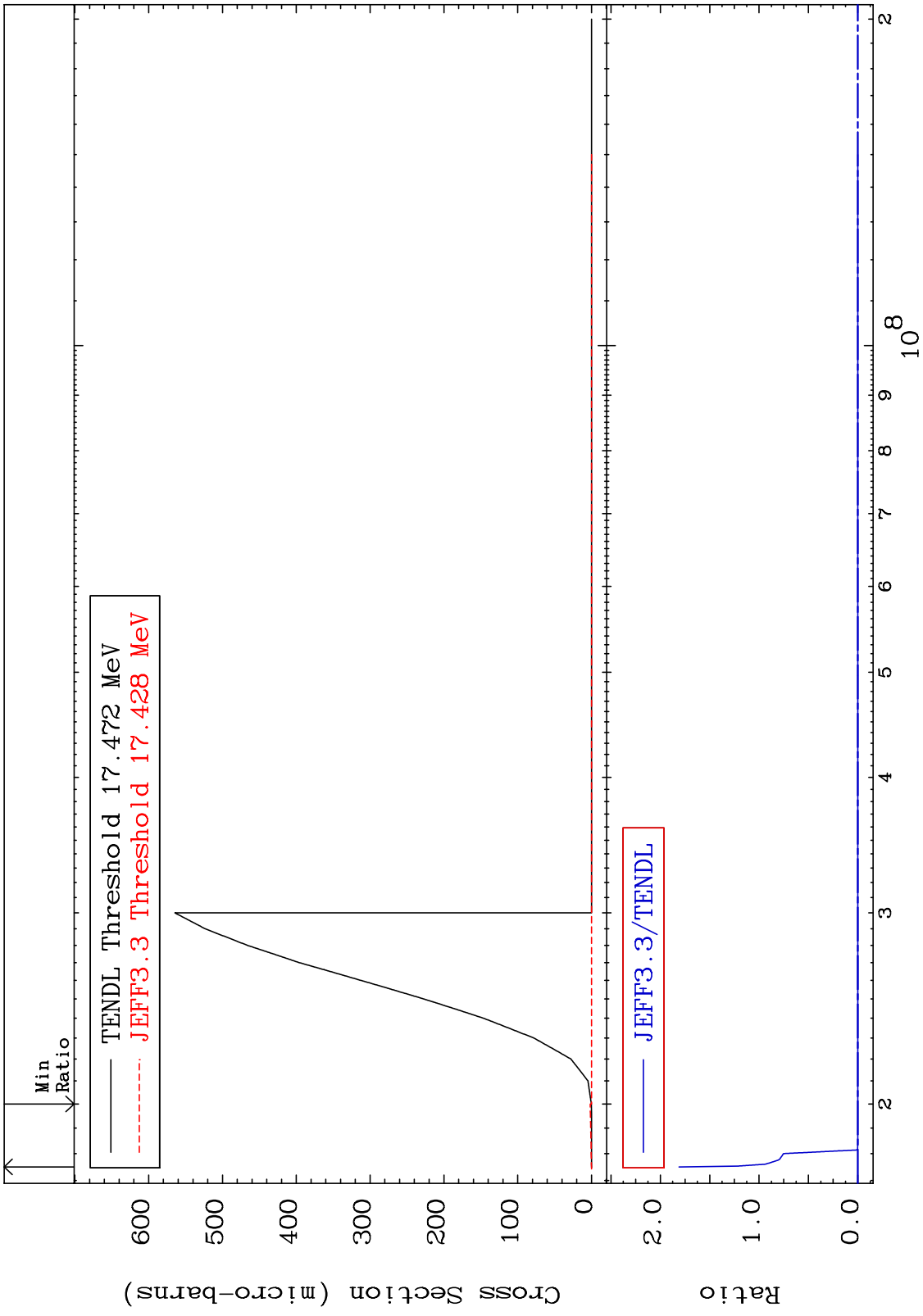


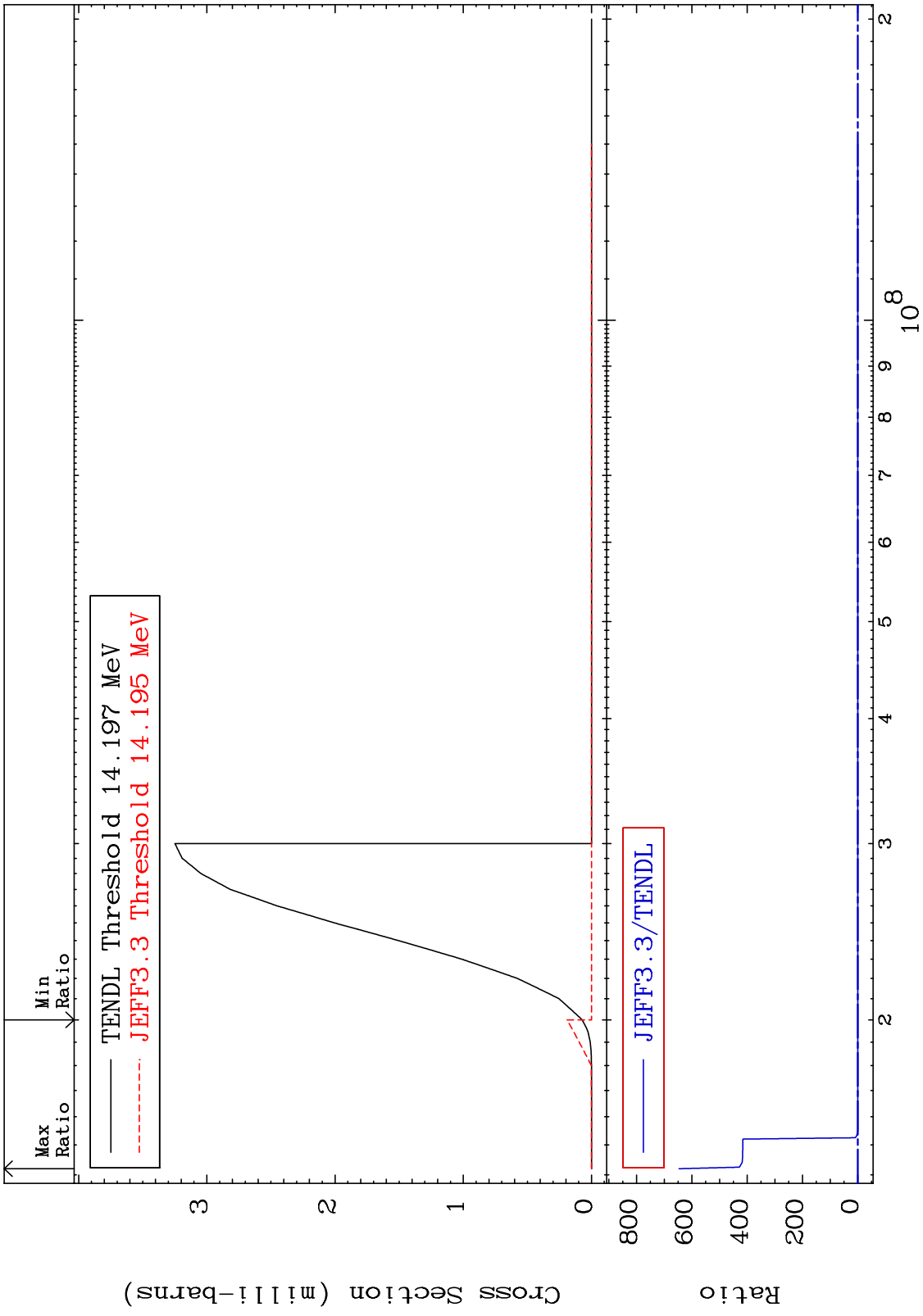


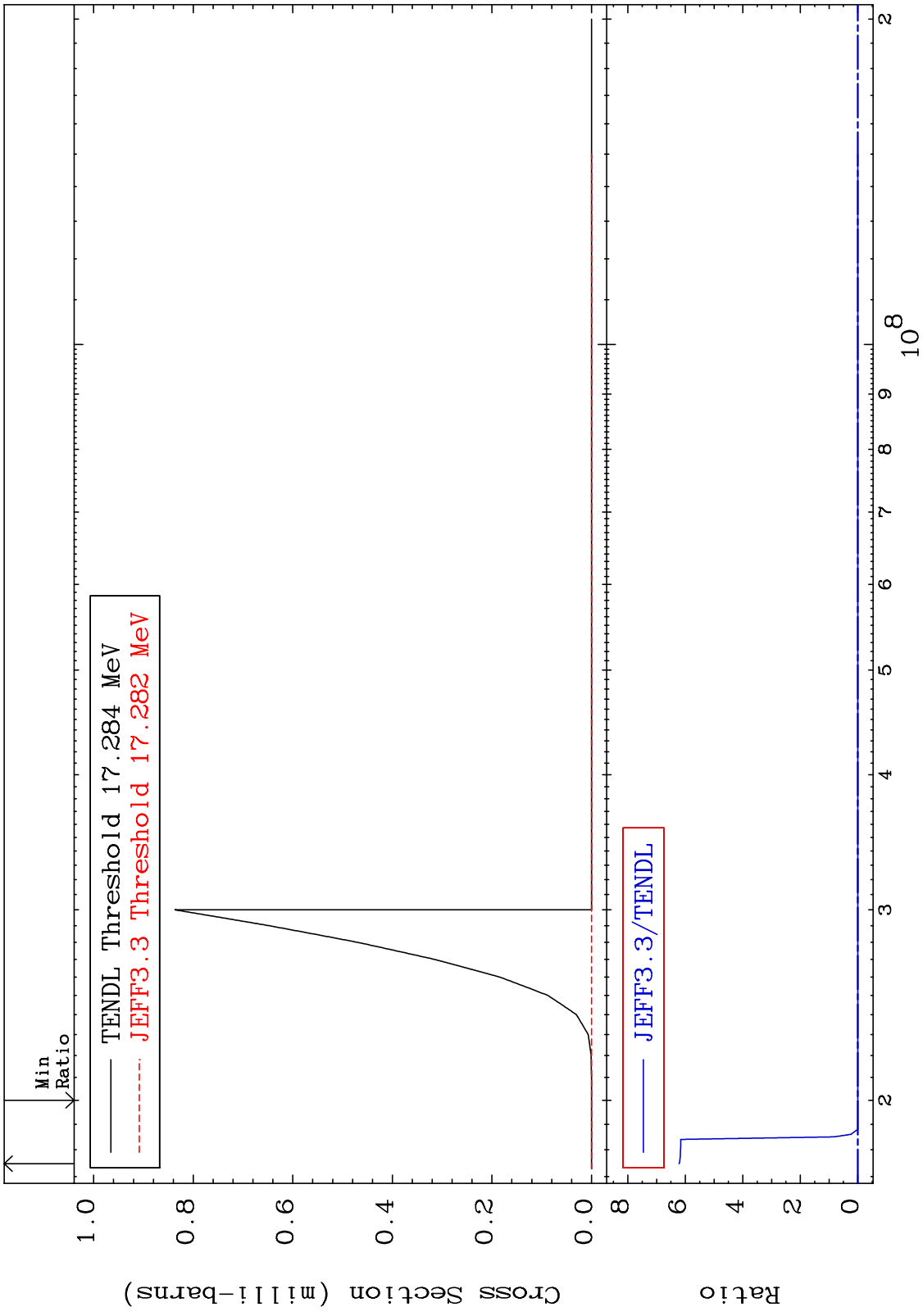


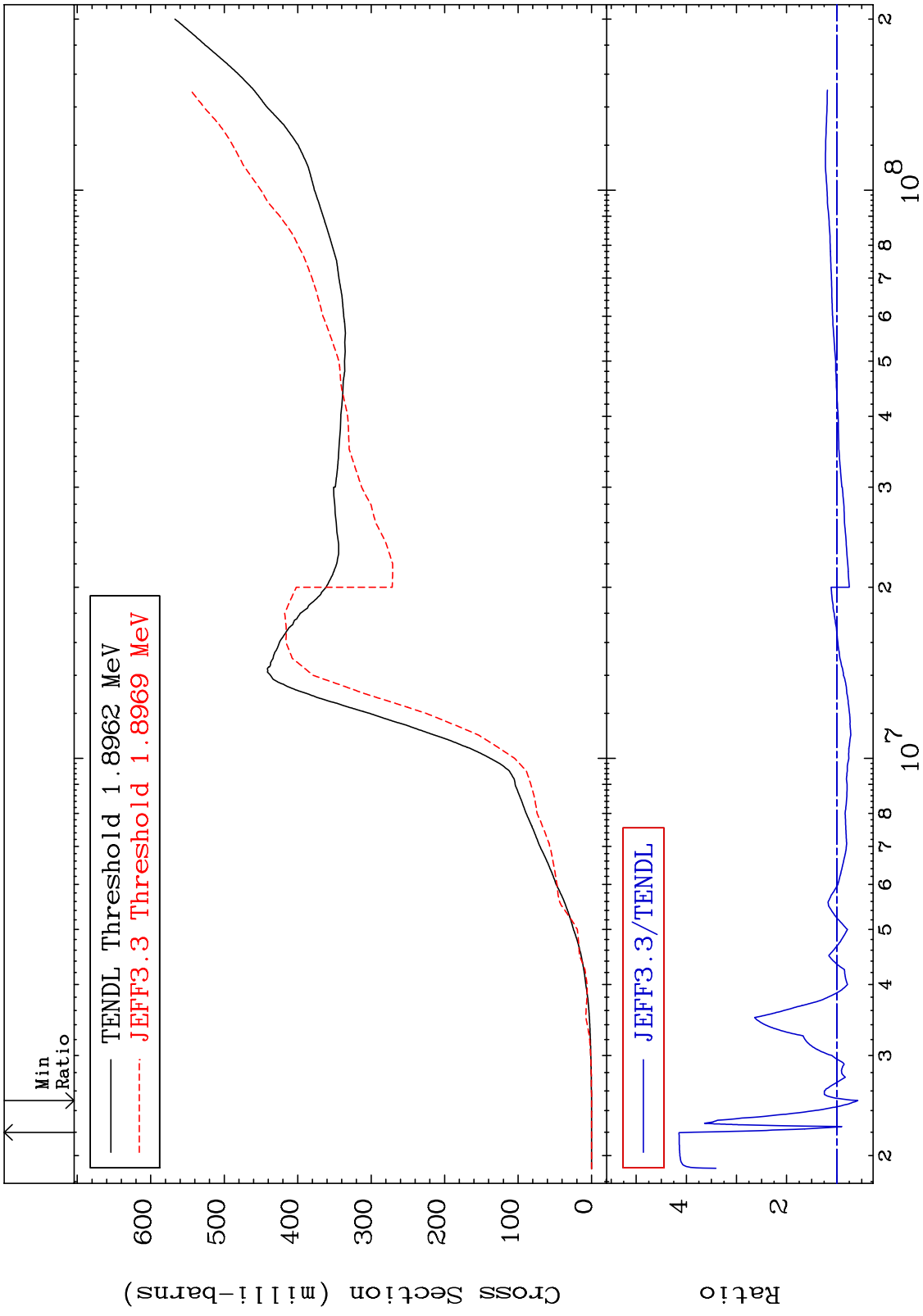


MAT 1325 (n,2p) 13-Al-27
Cross Section -100.0 To 9999. %





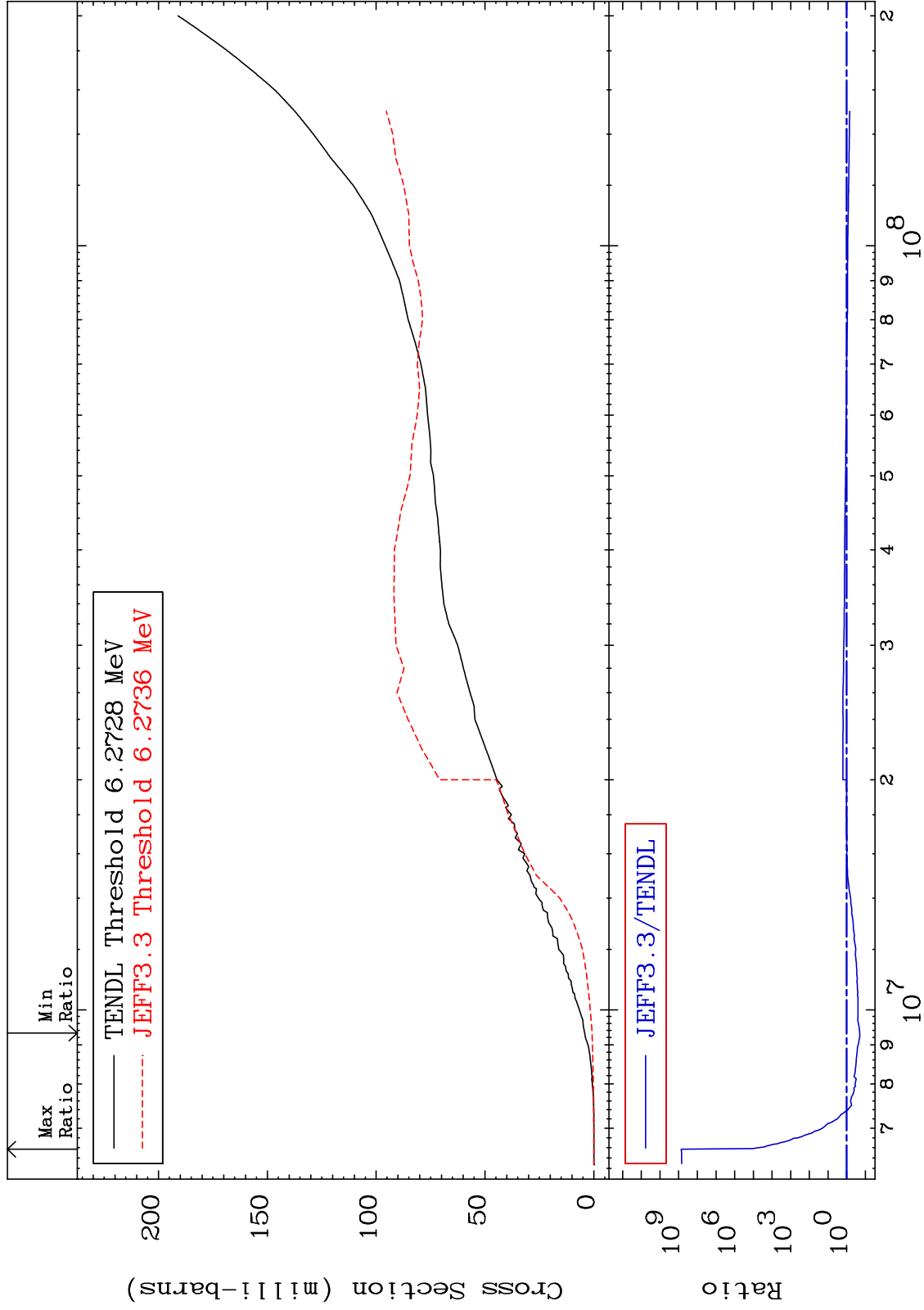




MAT 1325

Deuterium Production
Cross Section

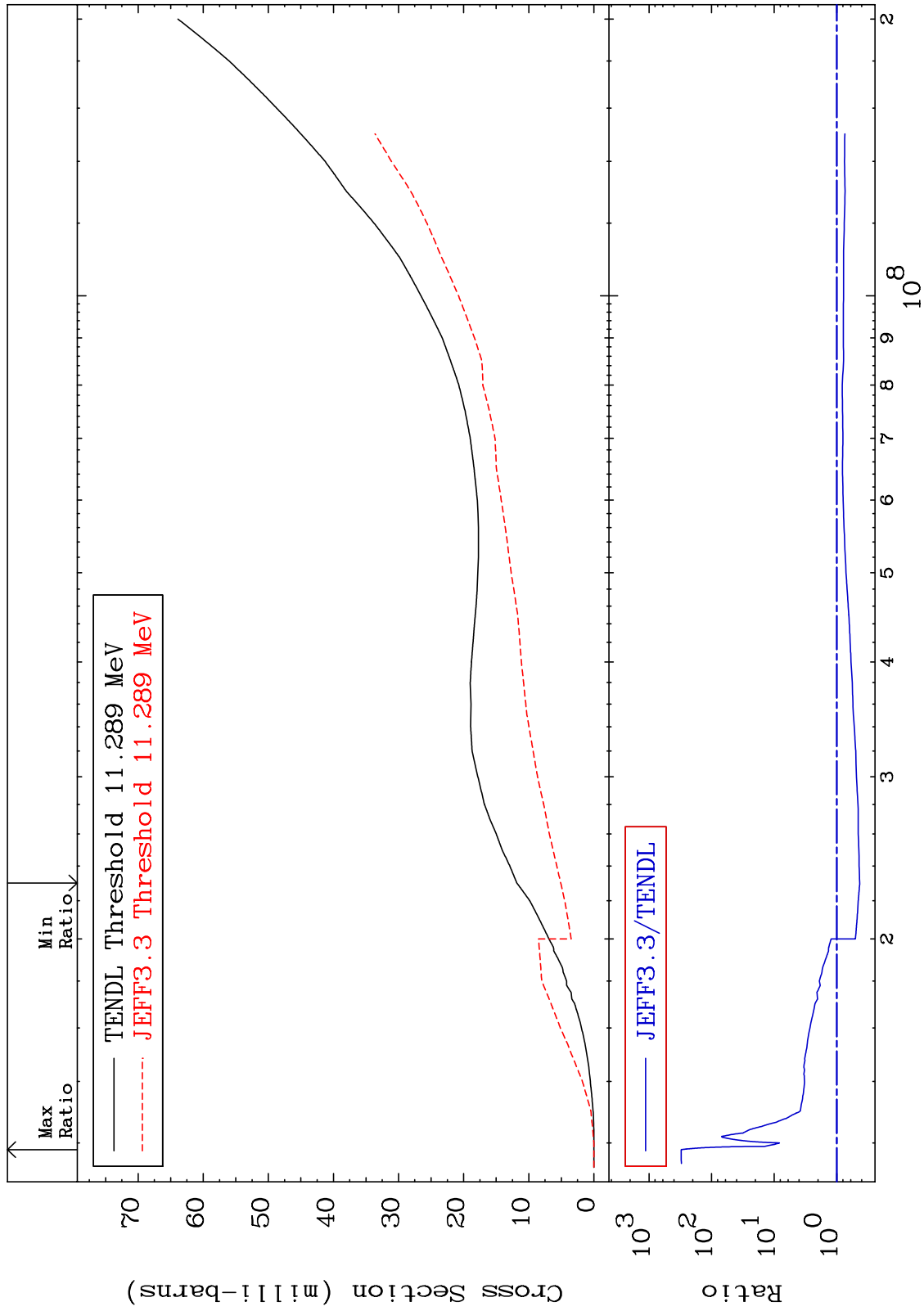
13-AI-27
-80.03 To 9999. %

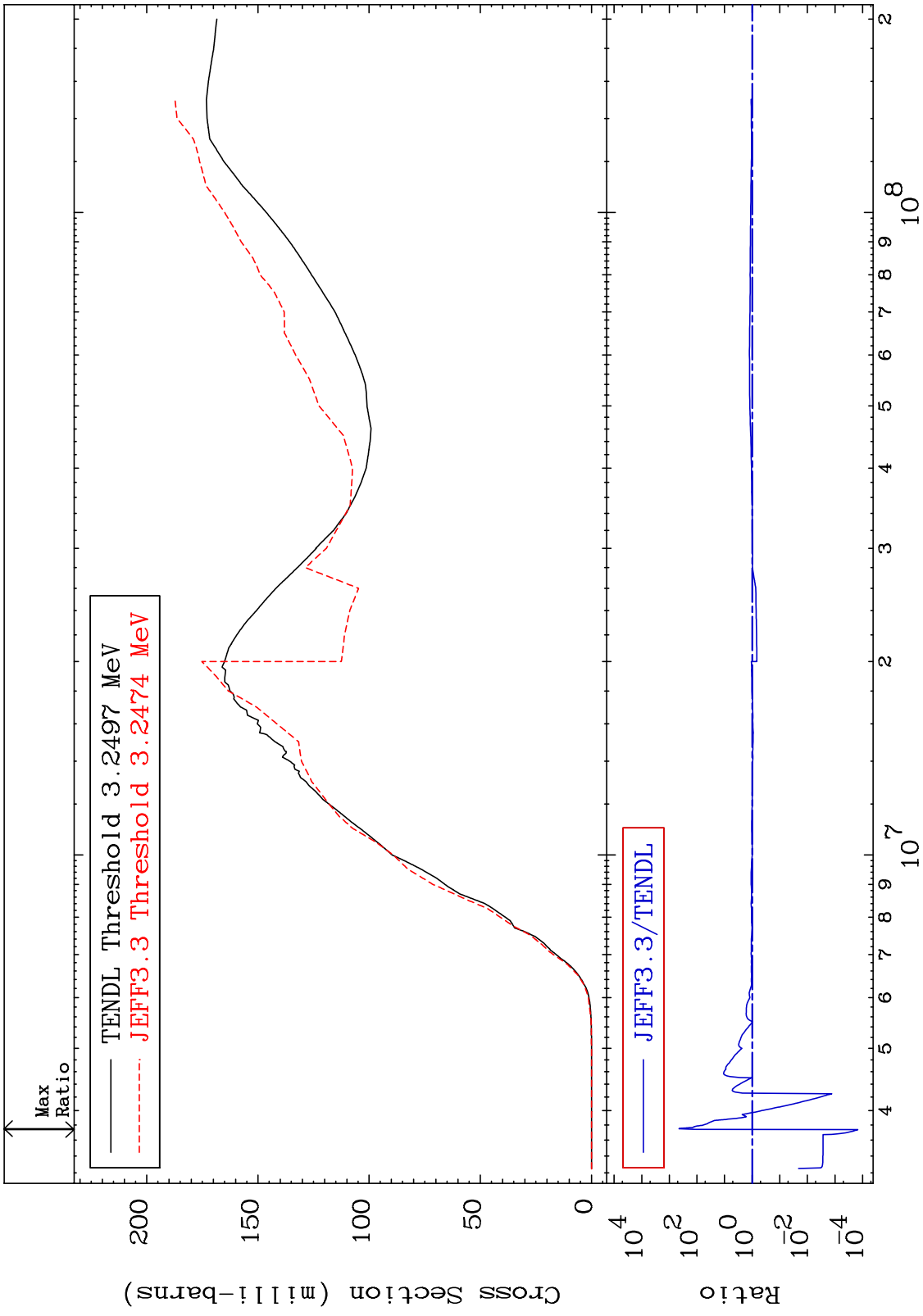


MAT 1325

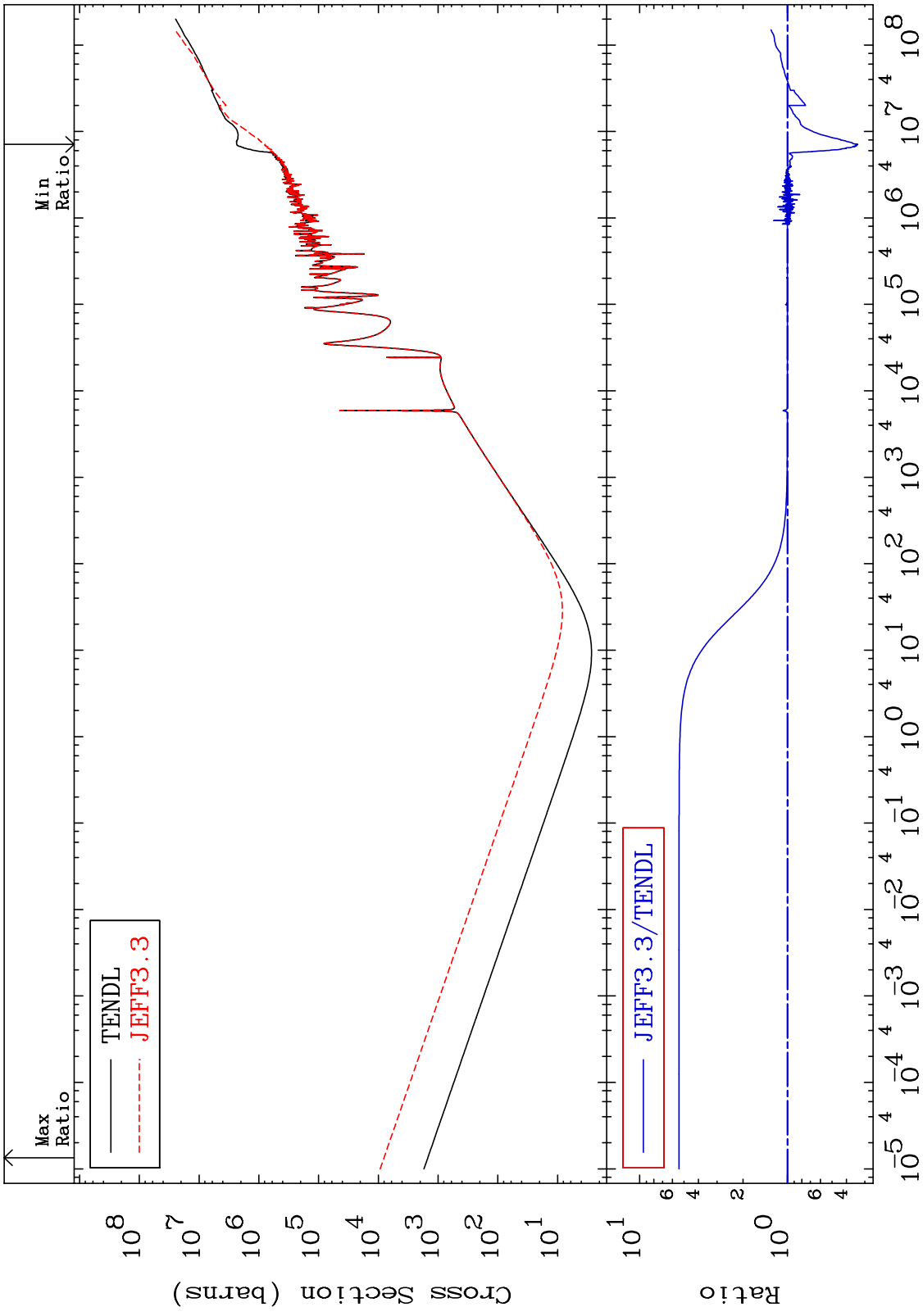
Tritium Production
Cross Section

13-AI-27
-56.96 To 9999. %





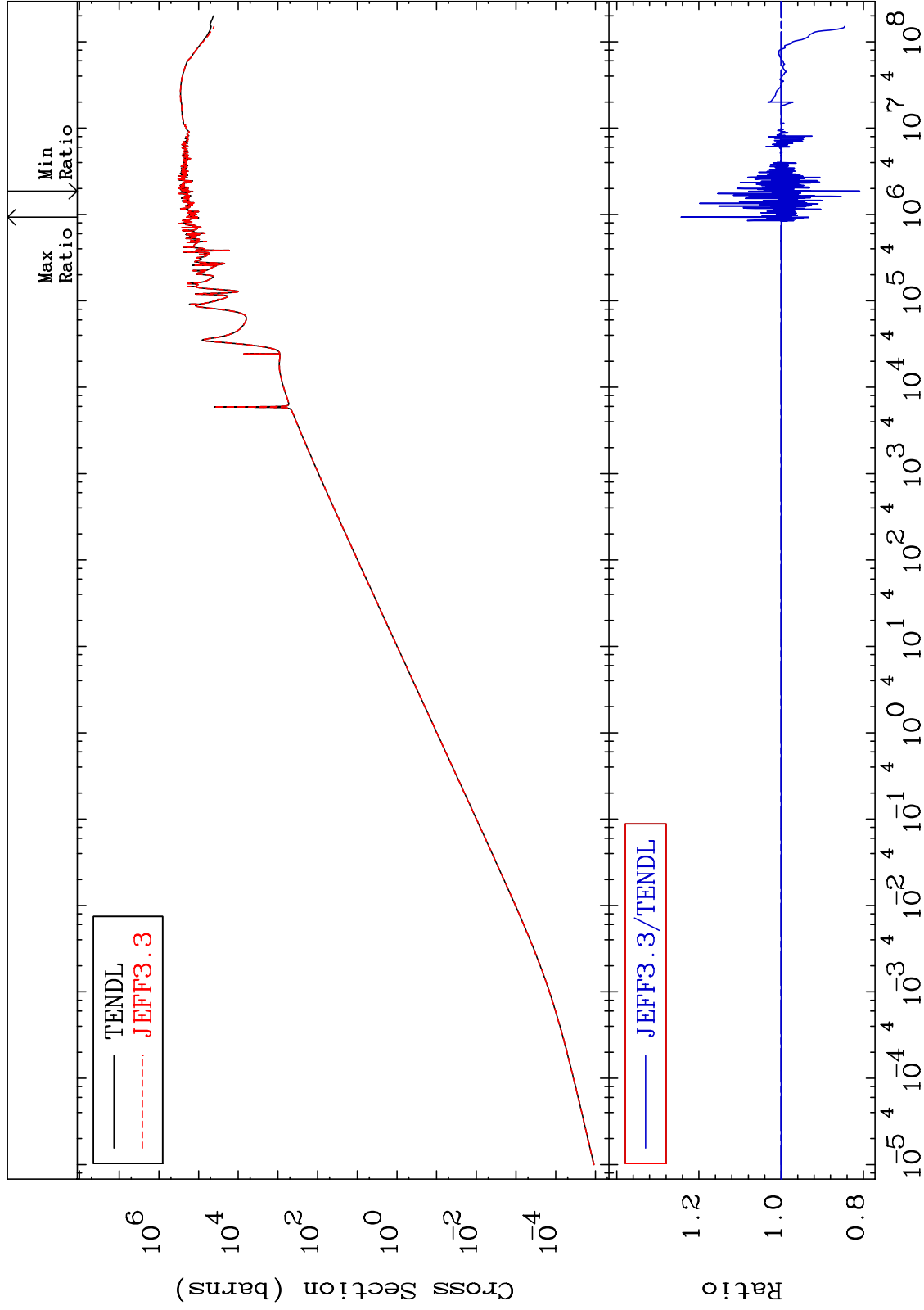
MAT 1325 Kerma total (eV-barns) Cross Section 13-AI-27
 -66.53 To 440.9 %



MAT 1325

Kerma elastic
Cross Section

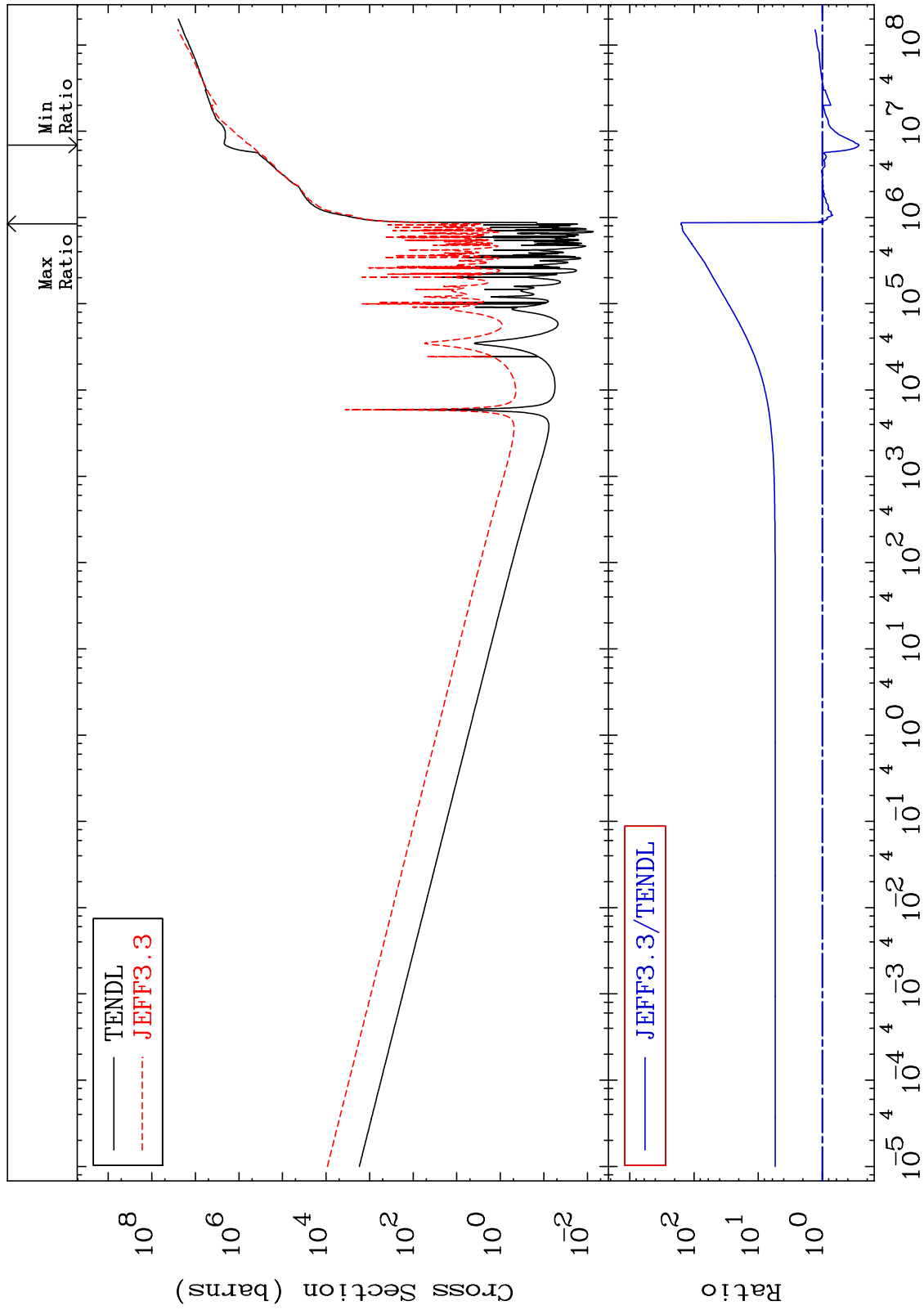
13-AI-27
-19.11 To 24.31 %



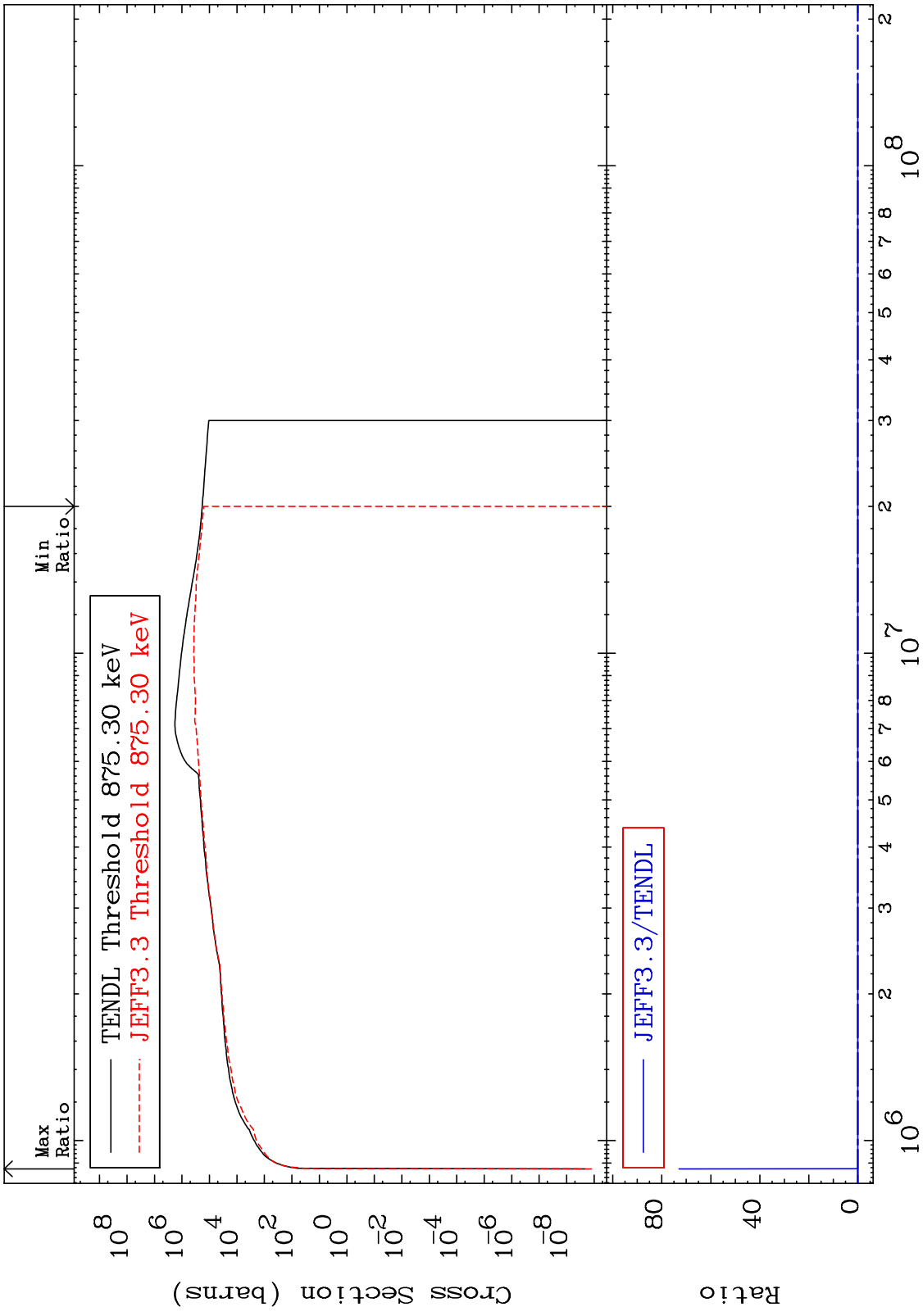
MAT 1325

Kerma non-elastic (all but mt2)
Cross Section

13-AI-27
-73.19 To 9999. %



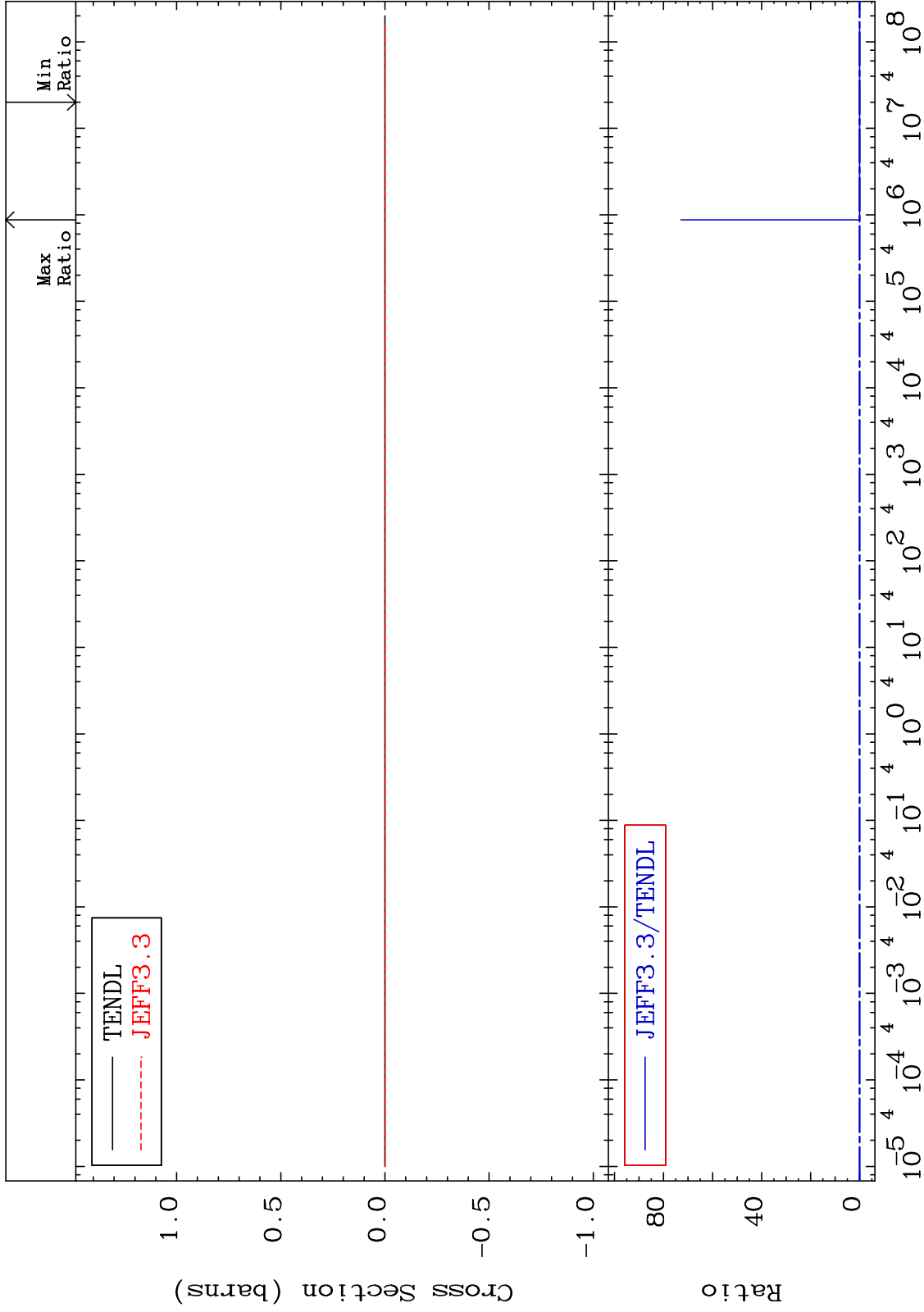
MAT 1325 Kerma inelastic (mt51-91) 13-AI-27
 -100.0 To 9999. %



MAT 1325

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

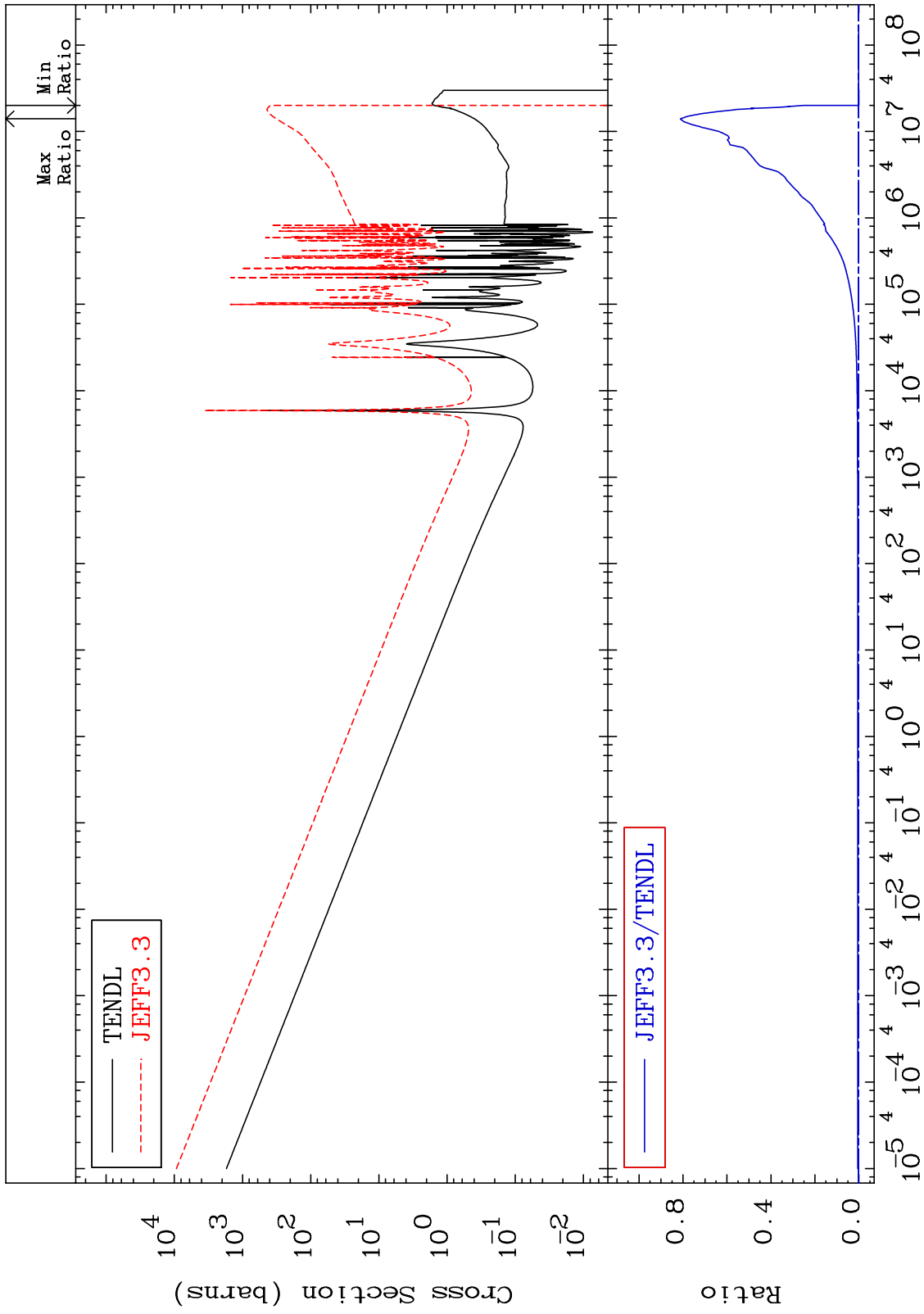
13-AI-27
-100.0 To 9999. %



MAT 1325

Kerma capture (mt102)
Cross Section

13-AI-27
-100.0 To 9999. %



60

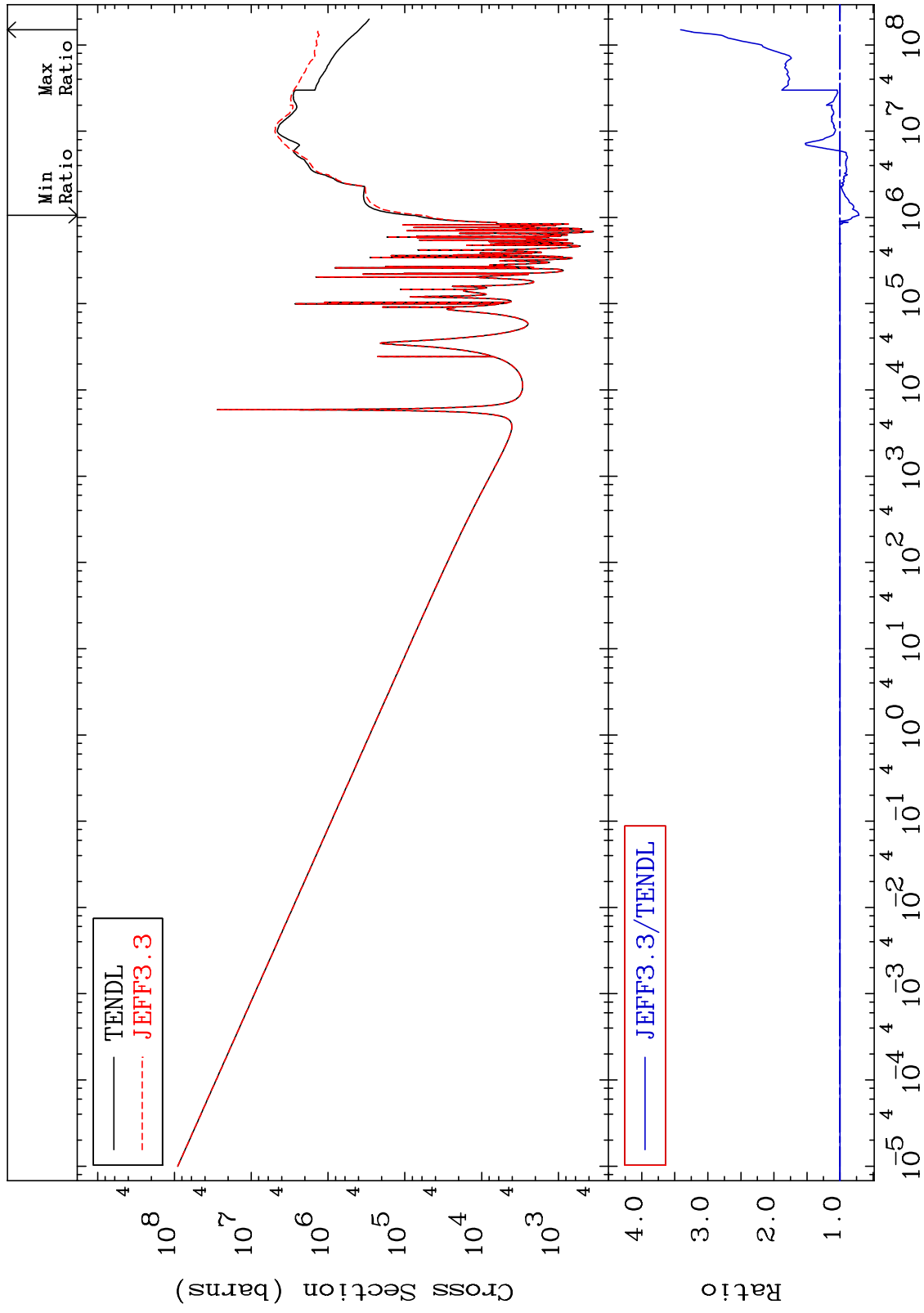
Incident Energy (eV)

13-AI-27

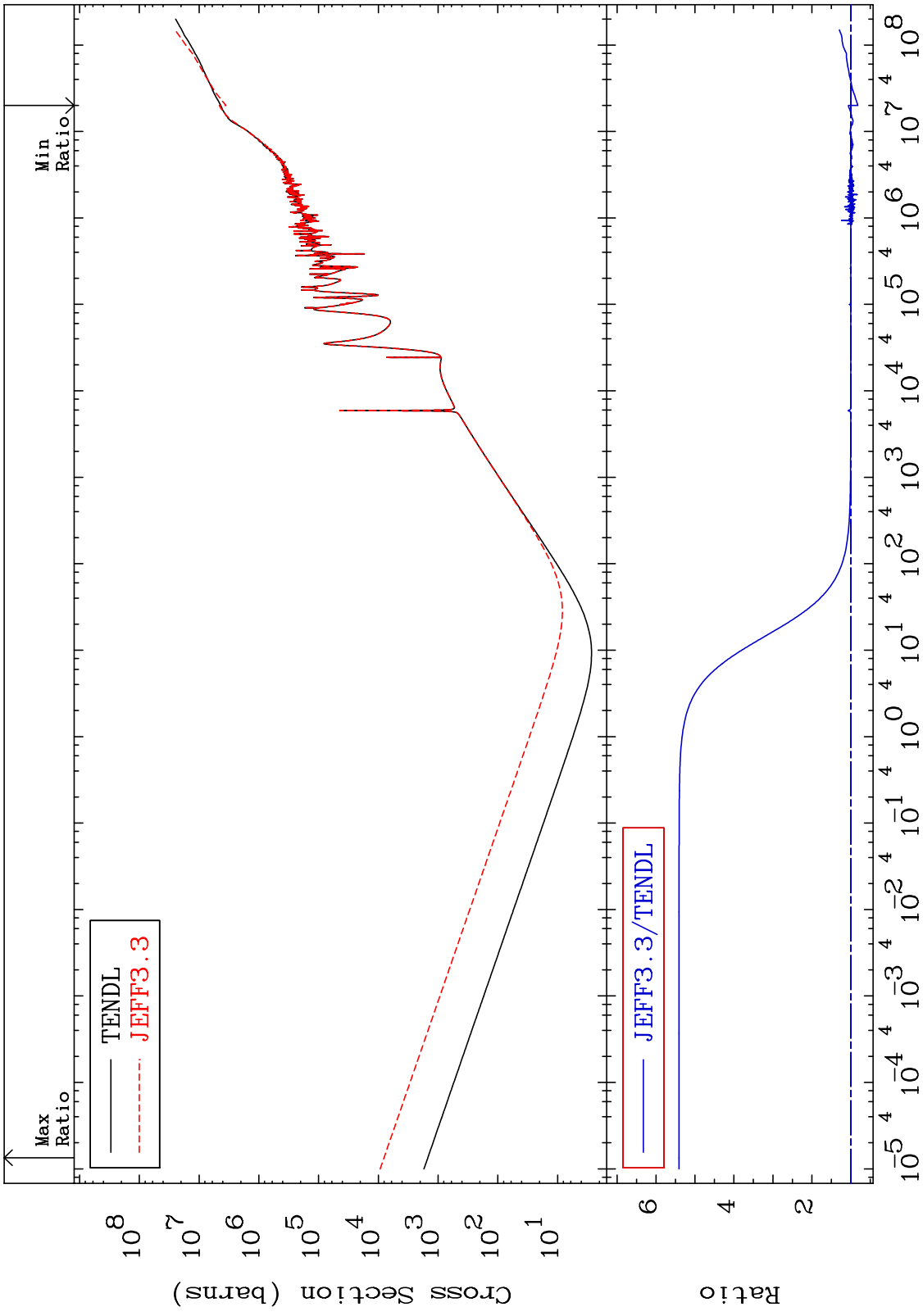
MAT 1325

Total photon (eV-barns)
Cross Section

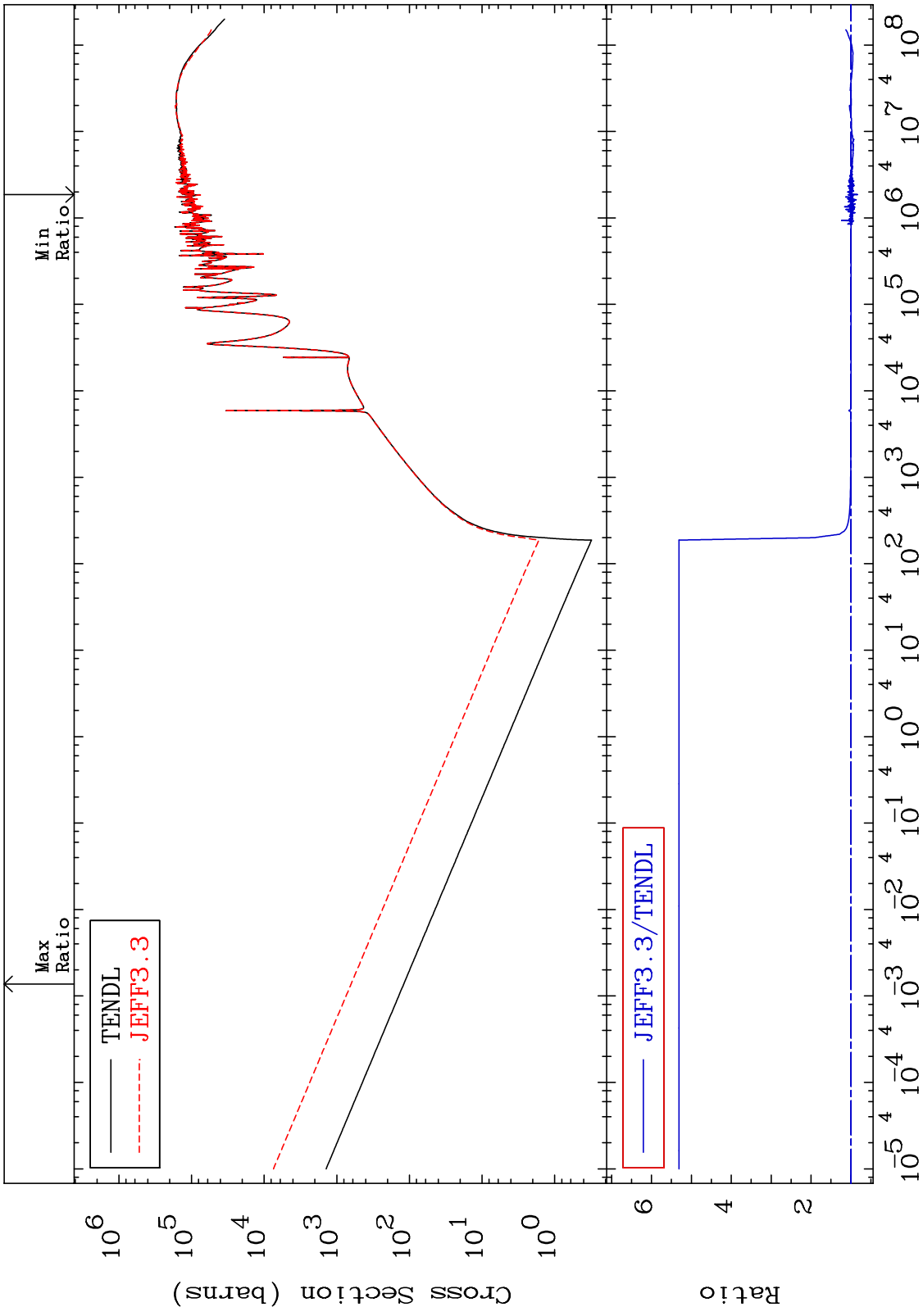
13-AI-27
-28.73 To 241.1 %

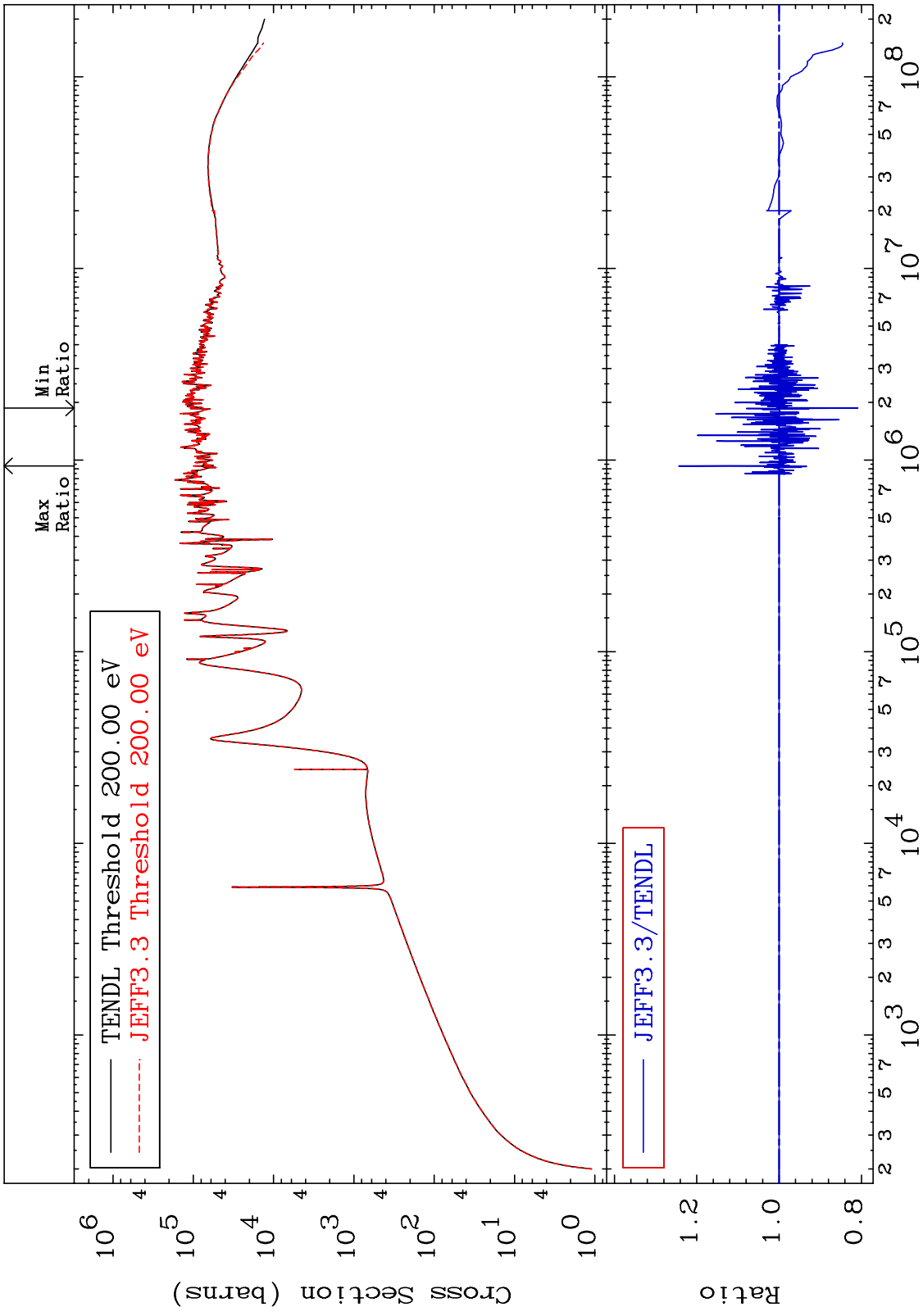


MAT 1325 Total kinematic kerma (high limit) Cross Section
13-AI-27
-18.04 To 440.9 %

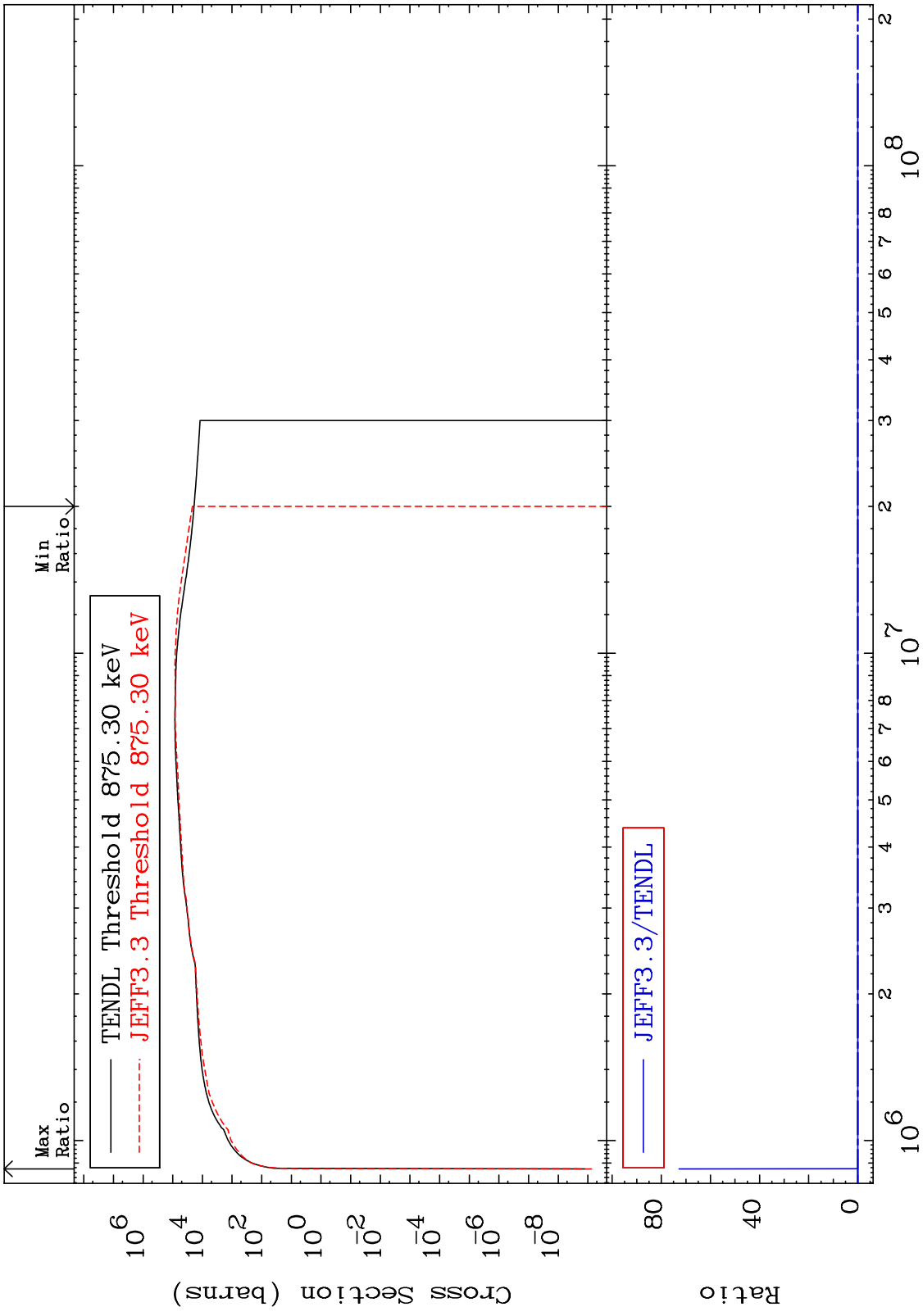


MAT 1325 Dpa total (eV-barns) 13-AI-27
Cross Section -17.30 To 430.8 %





MAT 1325 Dpa inelastic (mt51-91) 13-AI-27
 Cross Section -100.0 To 9999. %



MAT 1325

Dpa disappearance (mt102 -120)
Cross Section

13-AI-27
-100.0 To 430.8 %

