

Program Complot
(Version 2018-1)

by

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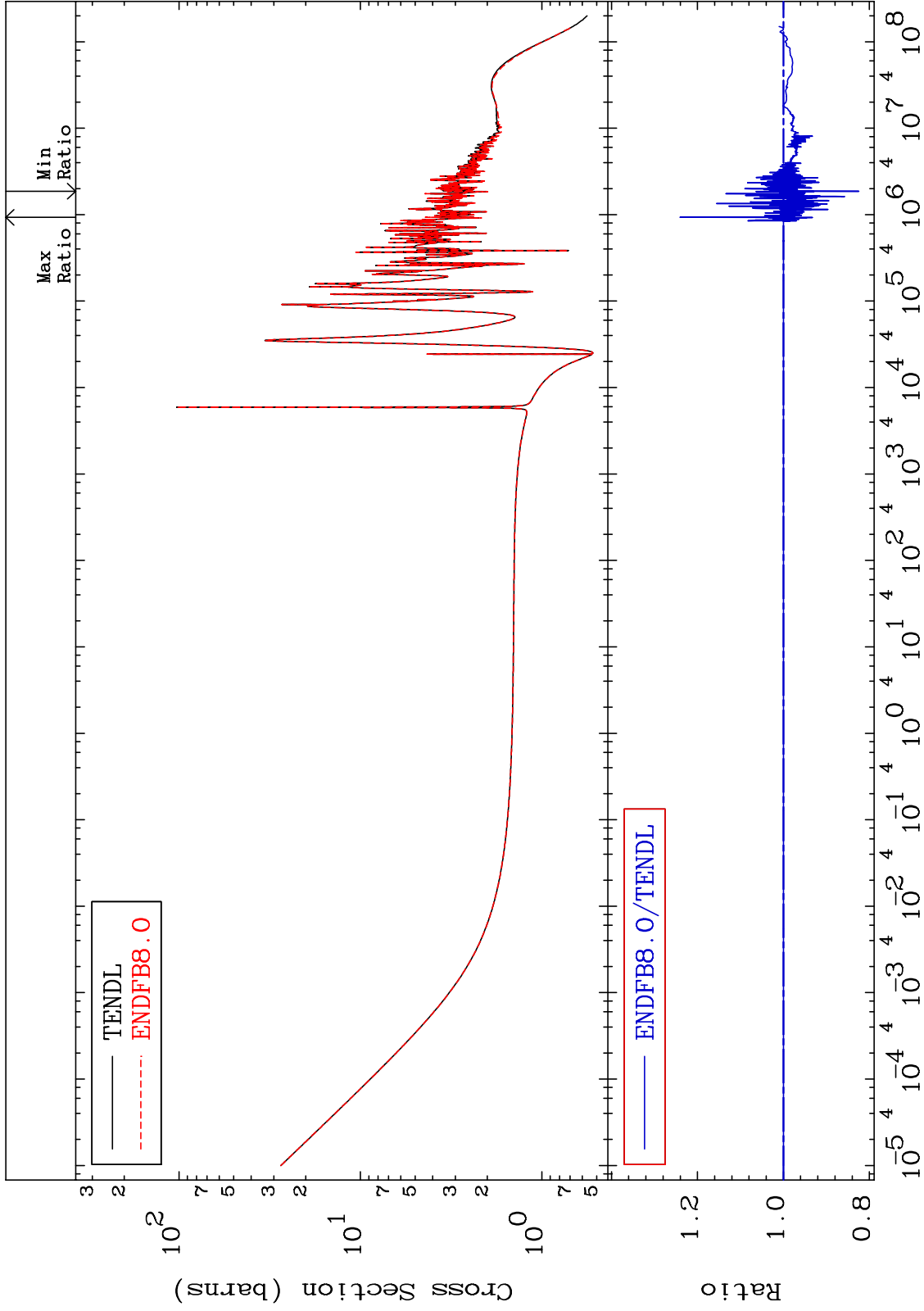
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 1325

Total
Cross Section

13-AI-27
-17.56 To 24.01 %



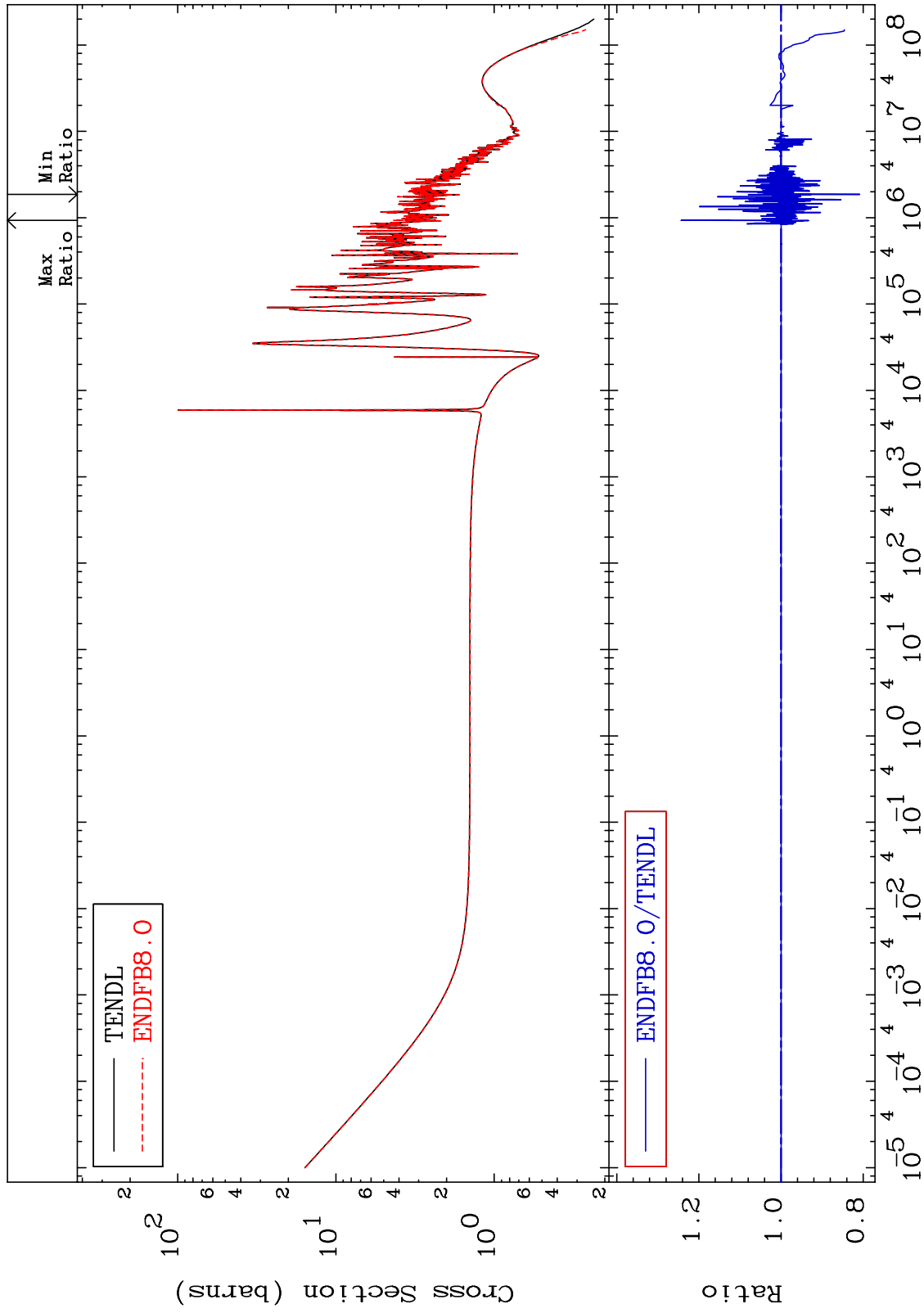
Incident Energy (eV)

13-AI-27

MAT 1325

Elastic
Cross Section

13-AI-27
-19.17 To 24.30 %



2

Incident Energy (eV)

13-AI-27

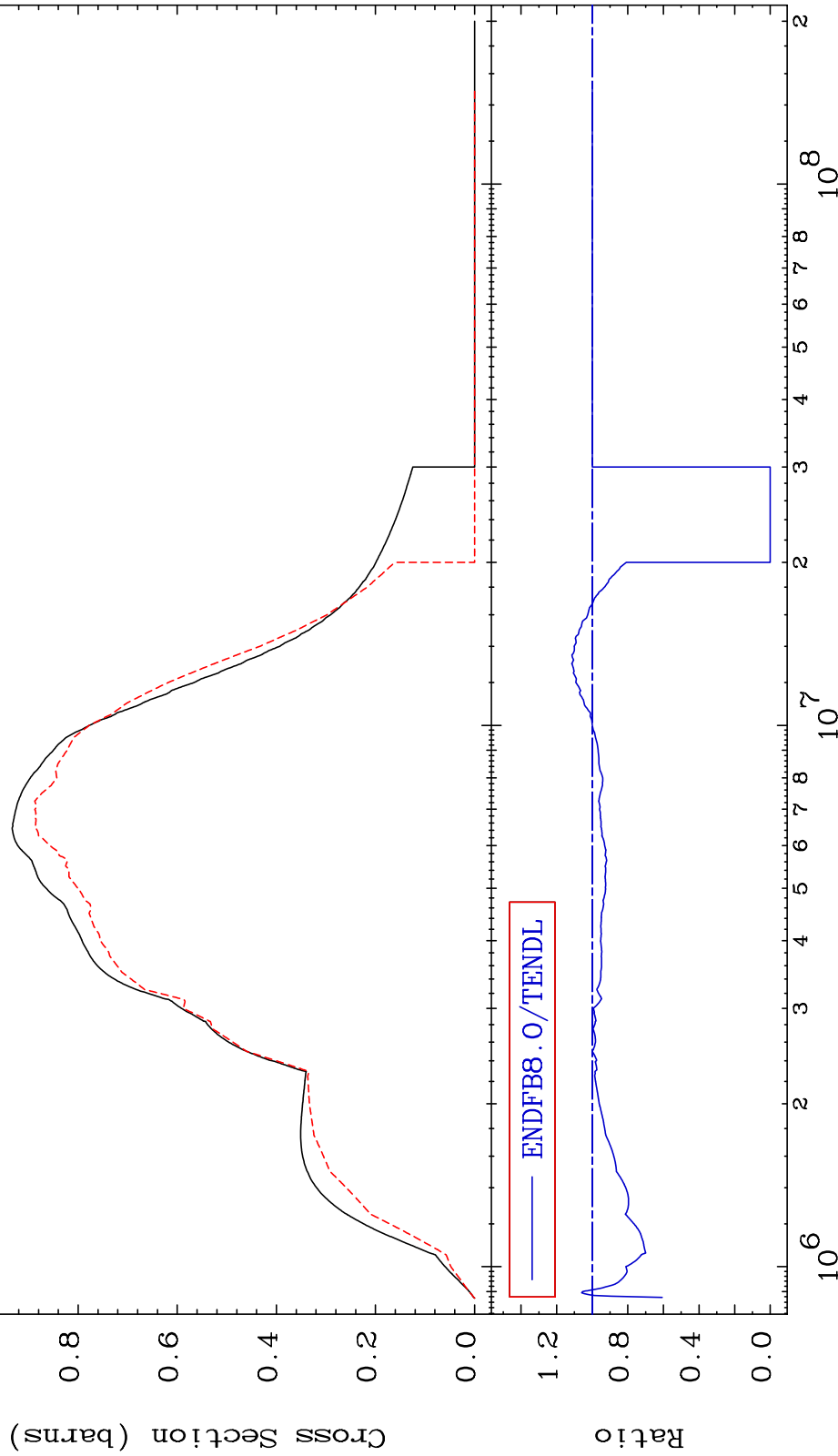
MAT 1325 13-Al-27 -100.0 To 11.51 %

Inelastic Cross Section

Max Ratio
Min Ratio

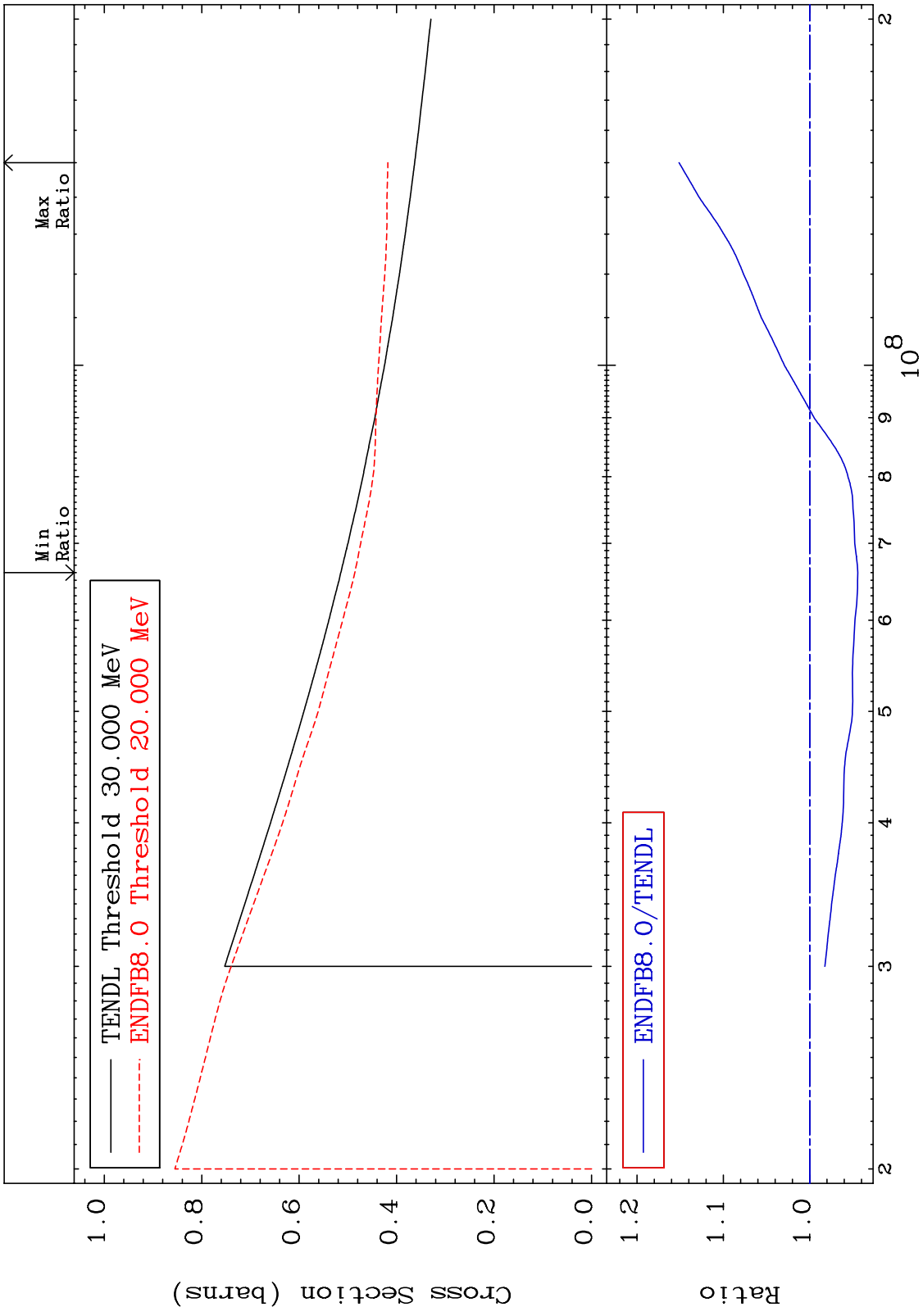
— TENDL Threshold 875.30 keV
- - - ENDFB8.0 Threshold 875.30 keV

— ENDFB8.0/TENDL

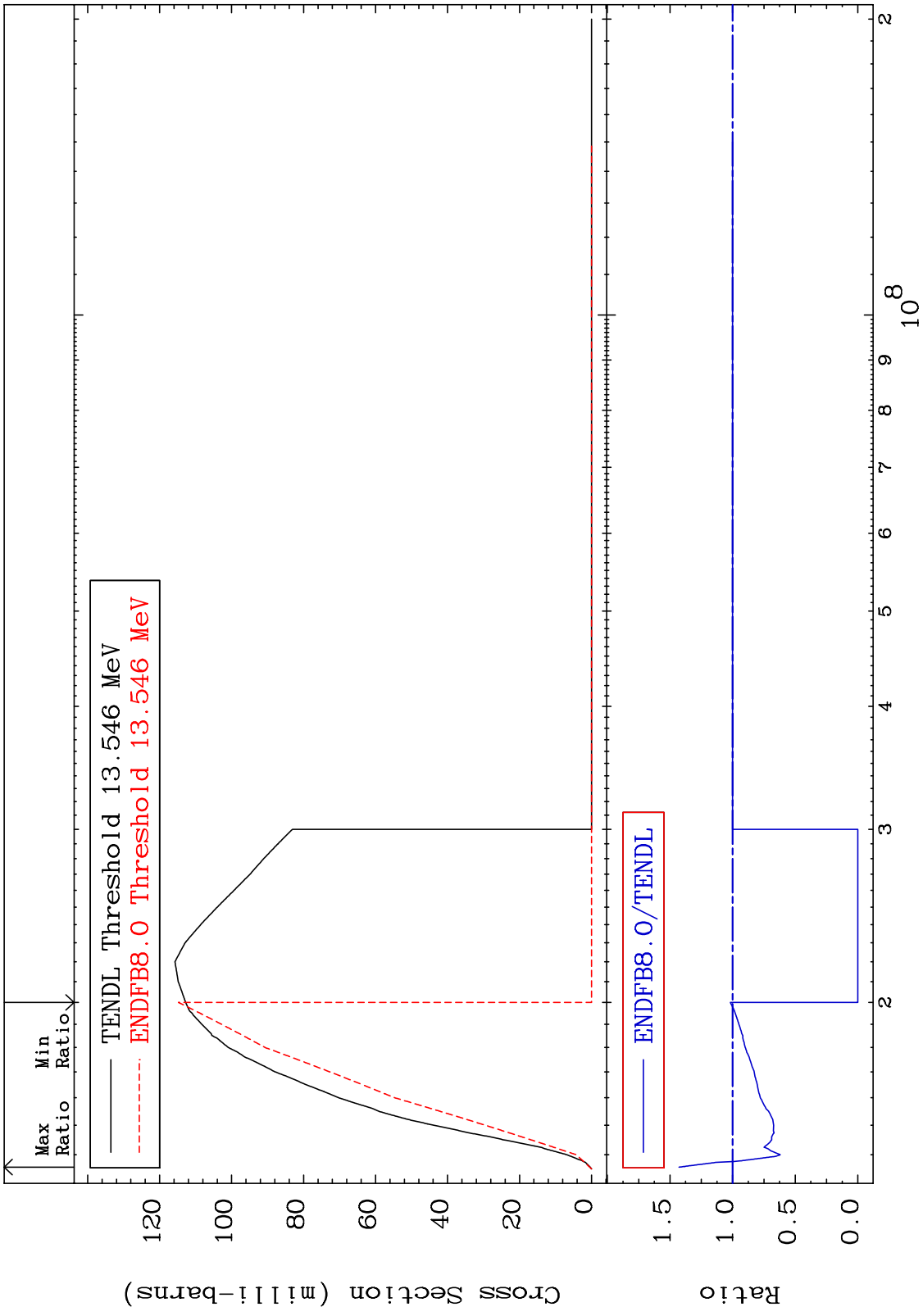


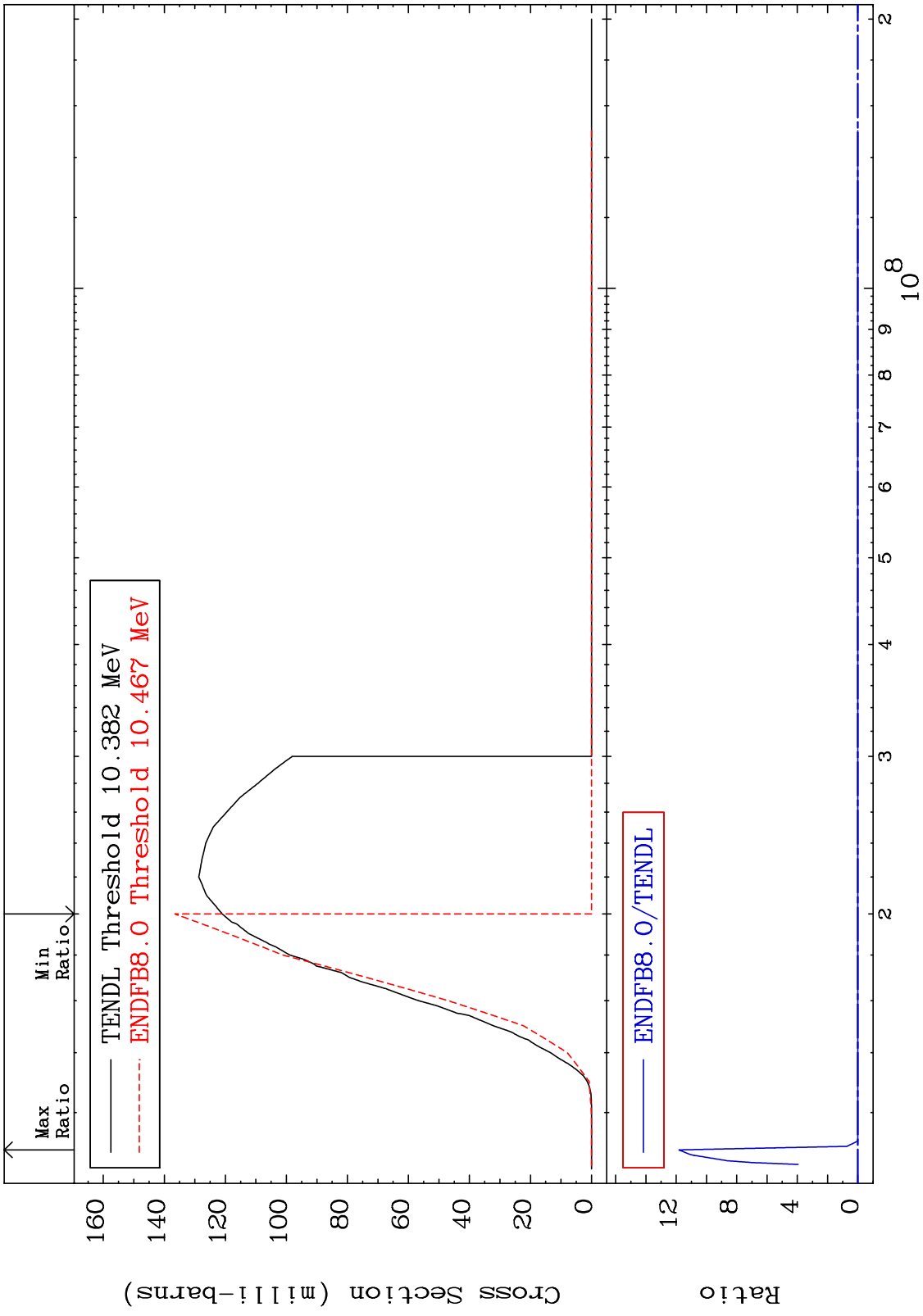
13-Al-27

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

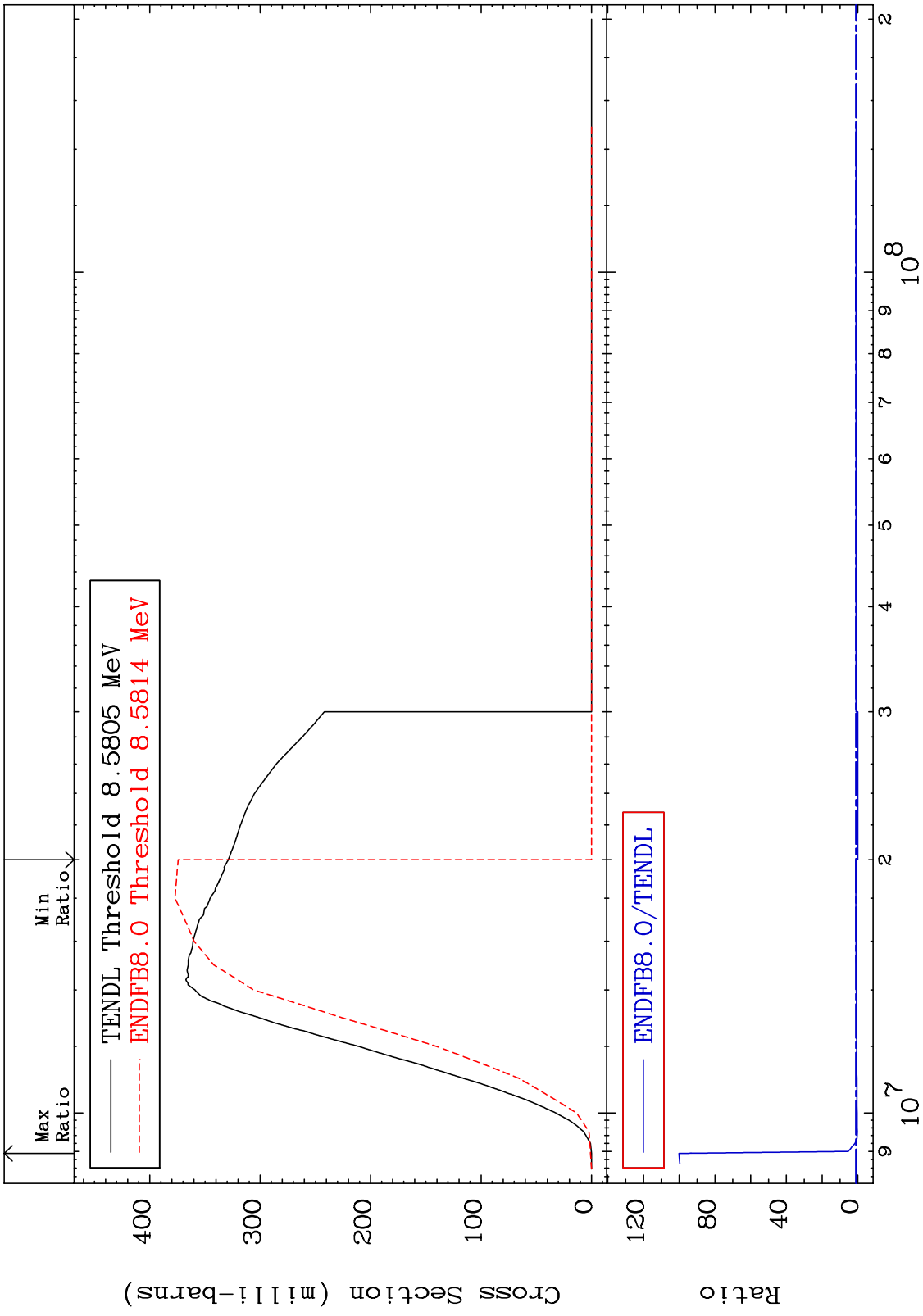


MAT 1325 (n,2n) Cross Section 13-AI-27
 -100.0 To 42.76 %





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



13-Al-27

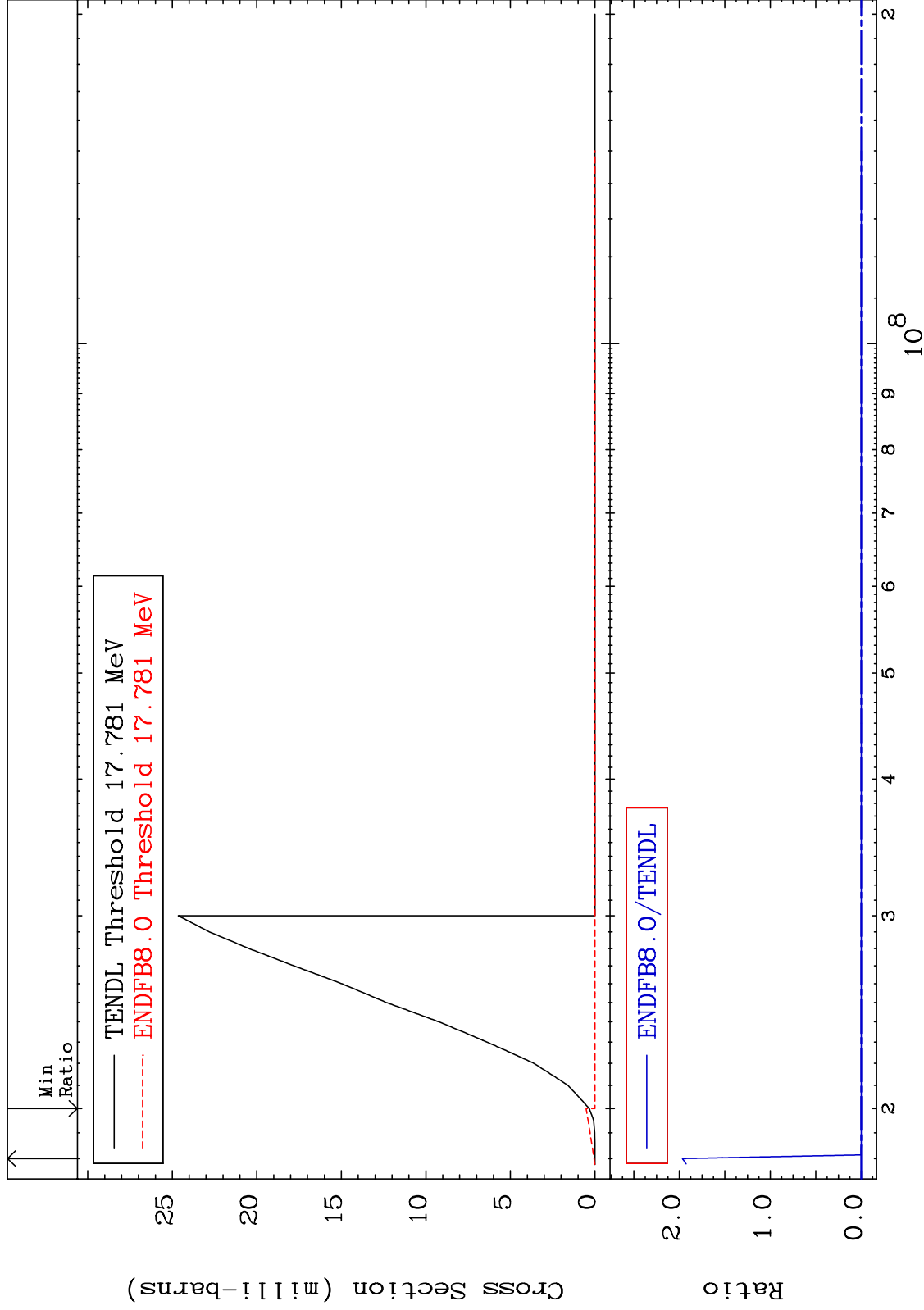
MAT 1325

(n,n') d

13-AI-27

Cross Section

-100.0 To 9999. %



8

Incident Energy (eV)

13-AI-27

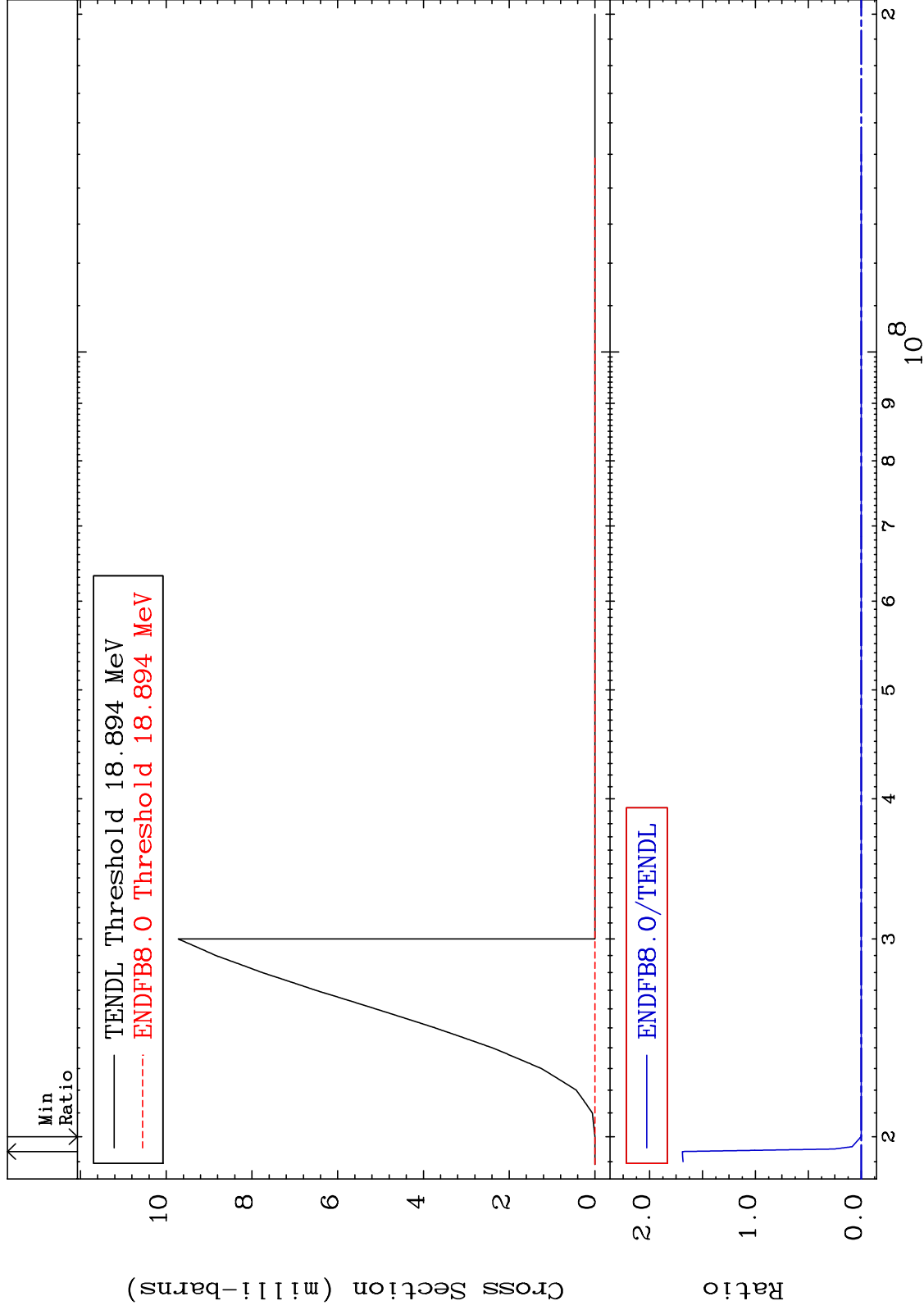
MAT 1325

(n,n') t

13-AI-27

Cross Section

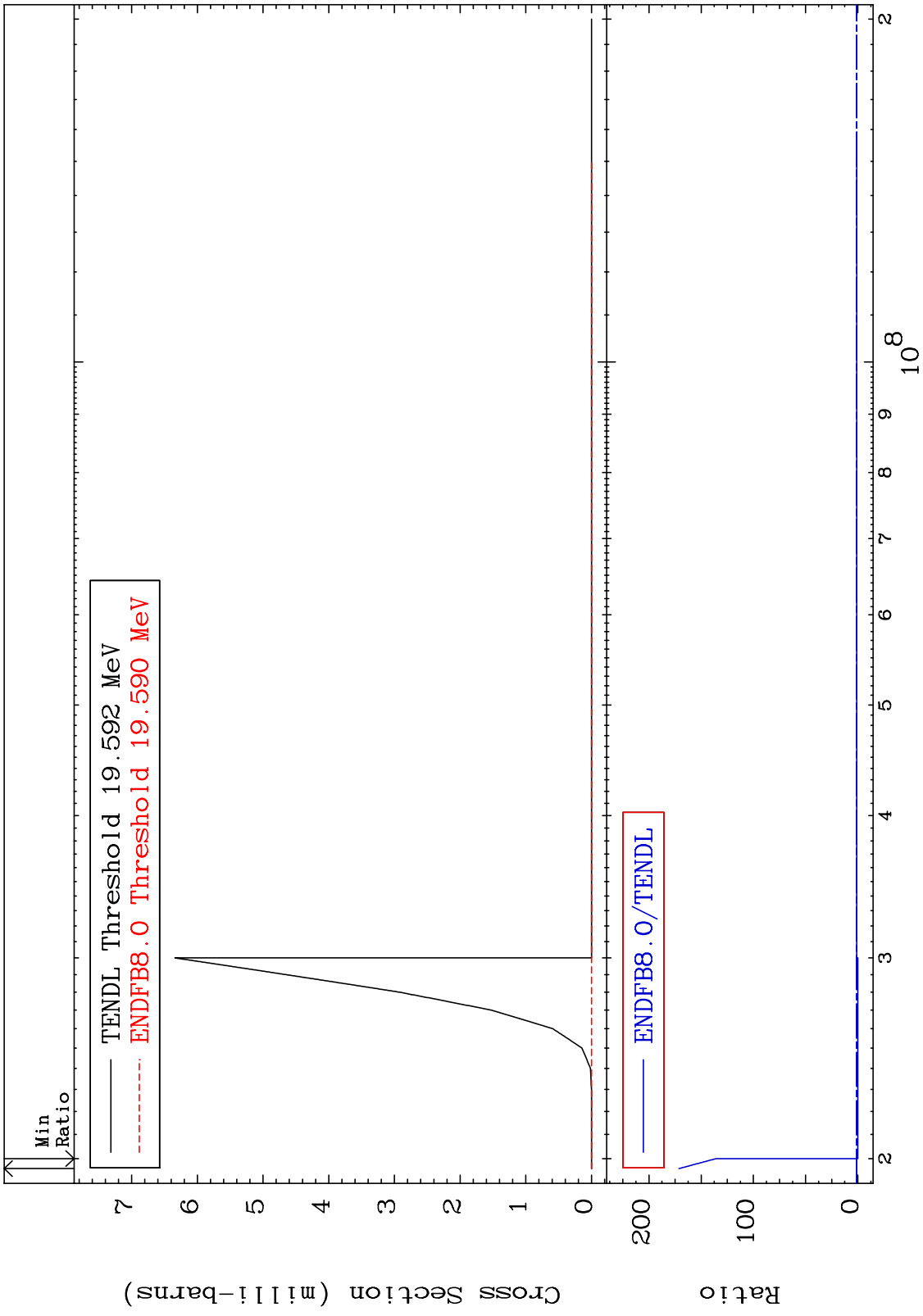
-100.0 To 9999. %



9

13-AI-27

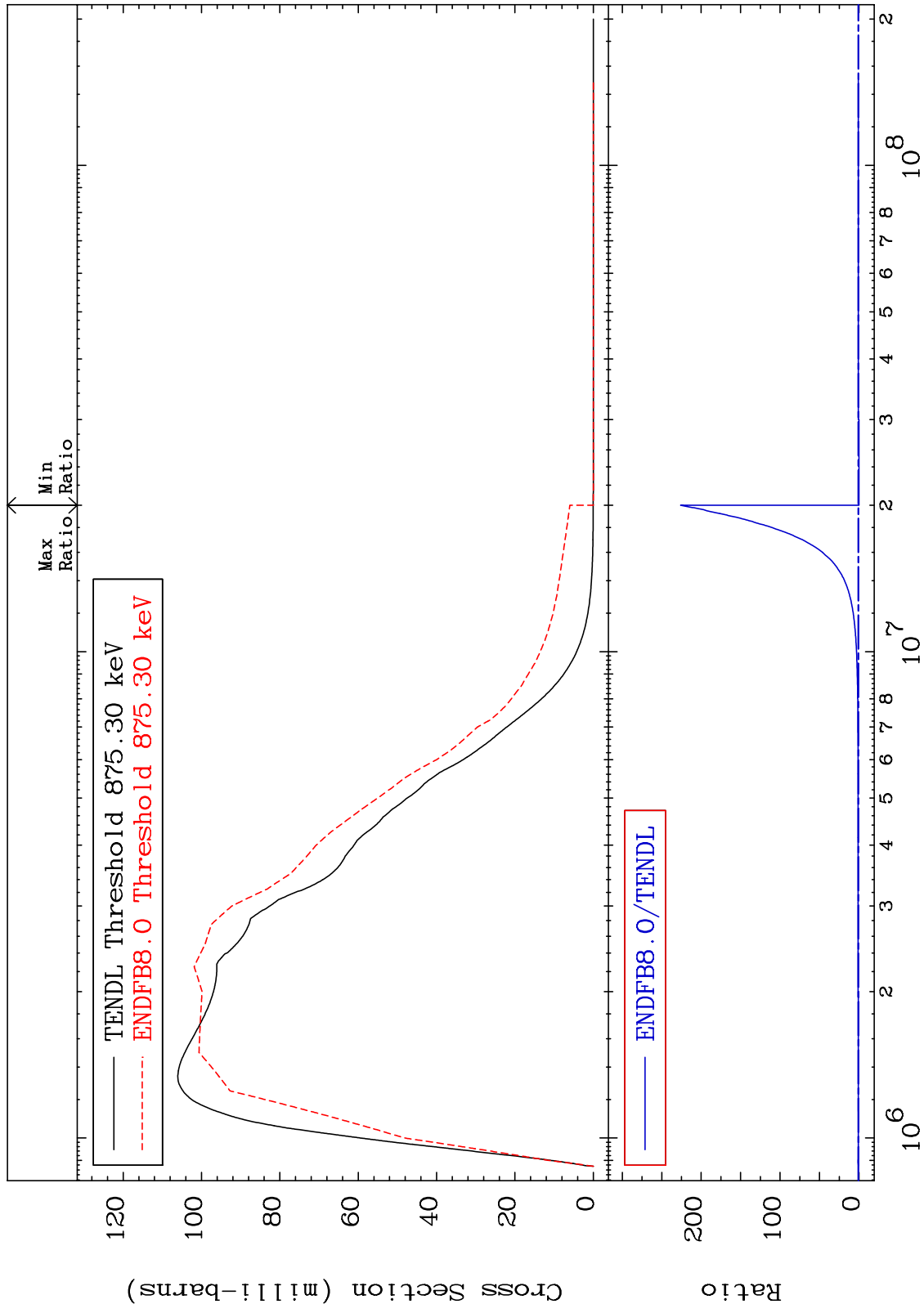
MAT 1325 (n,n') p α 13-AI-27
 Cross Section -100.0 To 9999. %



MAT 1325

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

13-AI-27
-100.0 To 9999. %

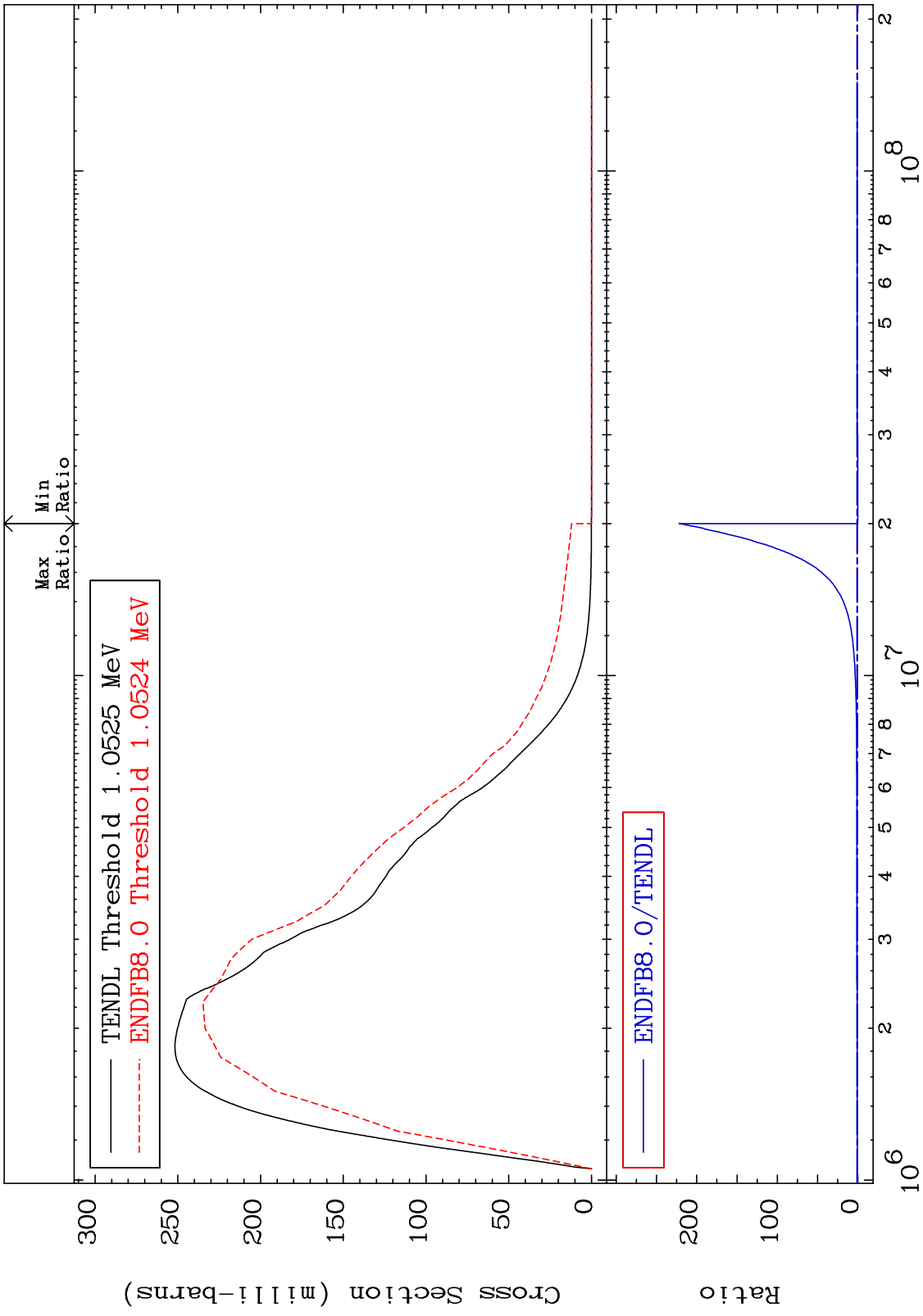


11

Incident Energy (eV)

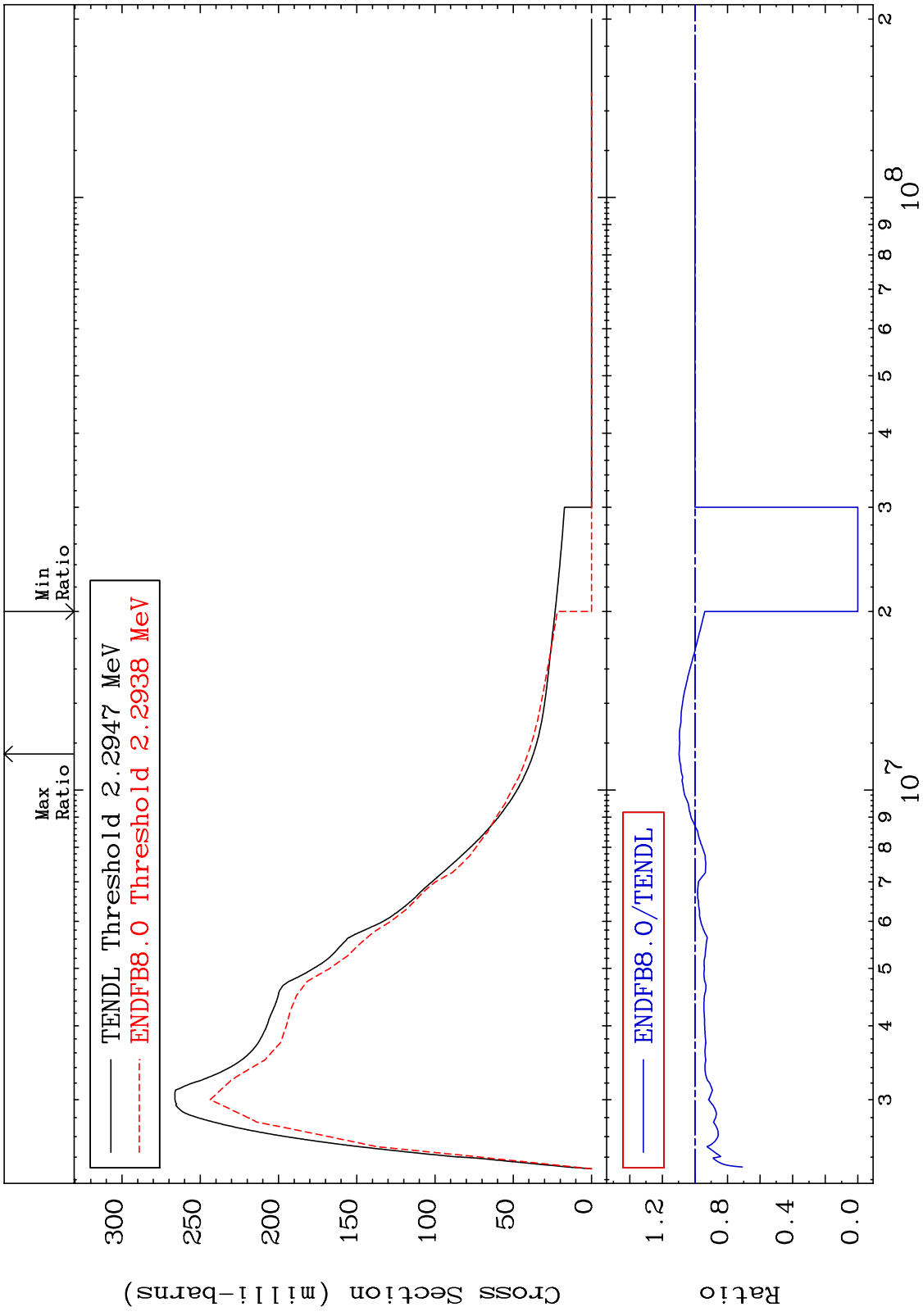
13-AI-27

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

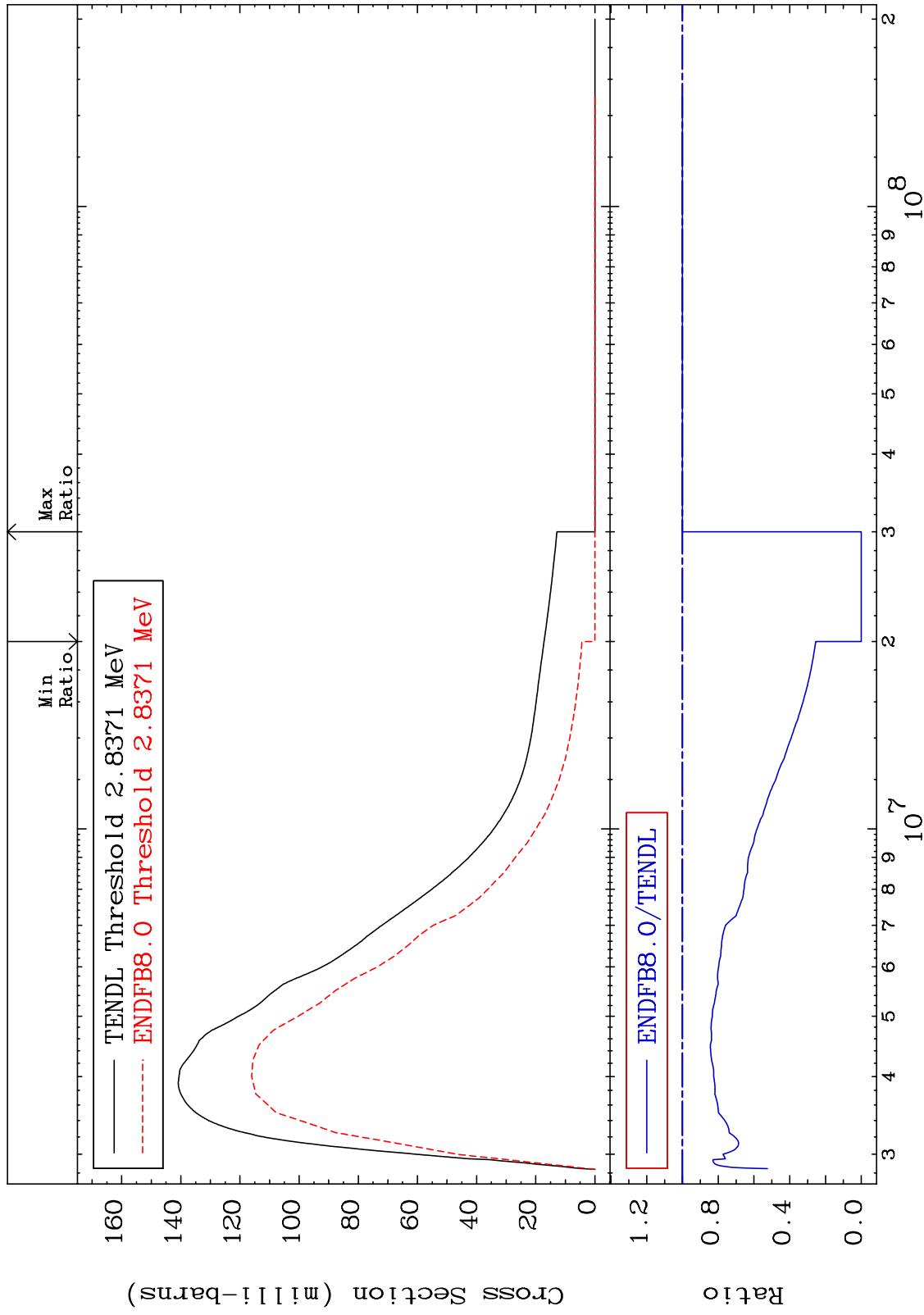


12 Incident Energy (eV) 13-AI-27

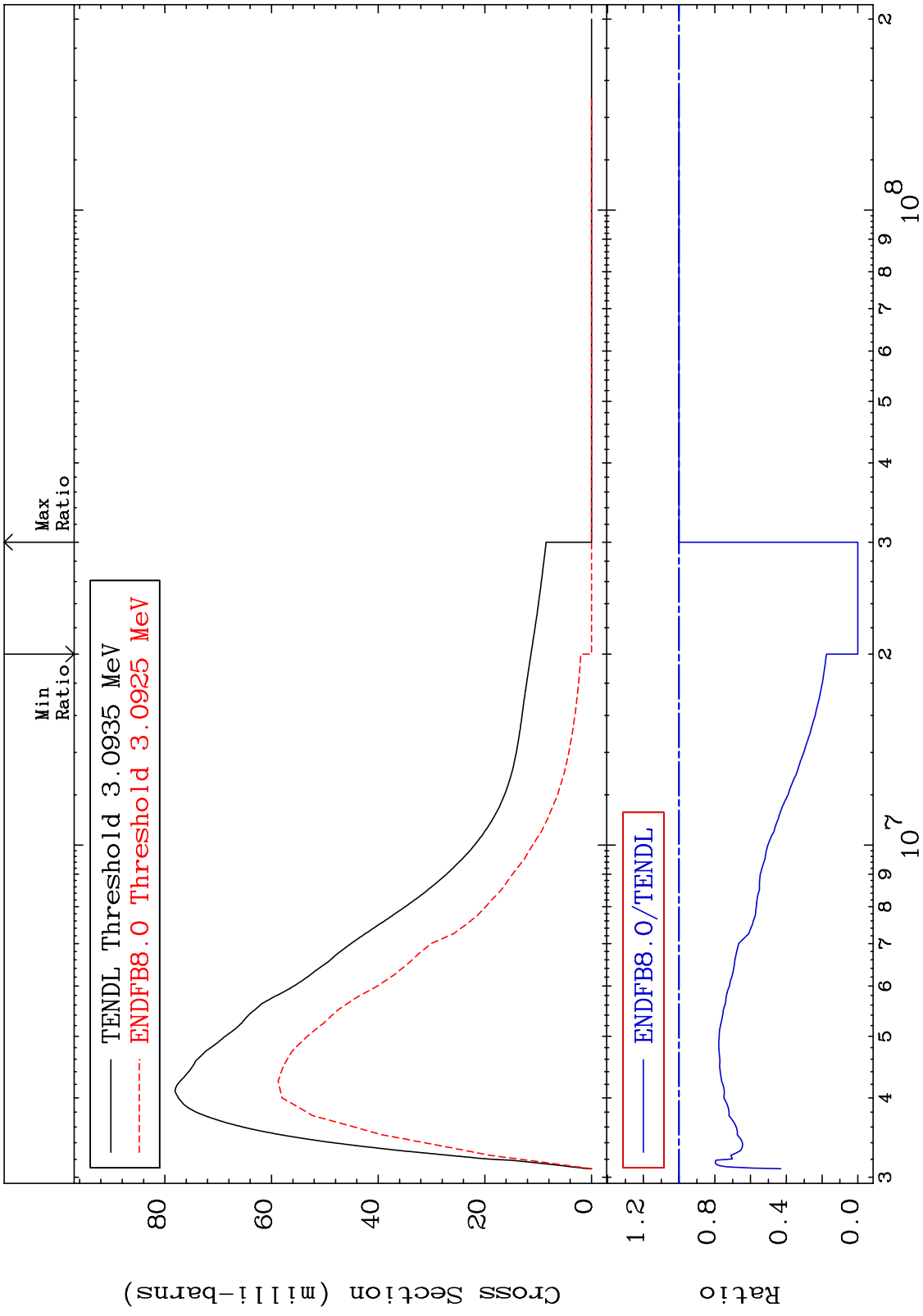
MAT 1325 MT= 53 (n,n') Level Cross Section -100.0 To 9.714 % 13-AI-27



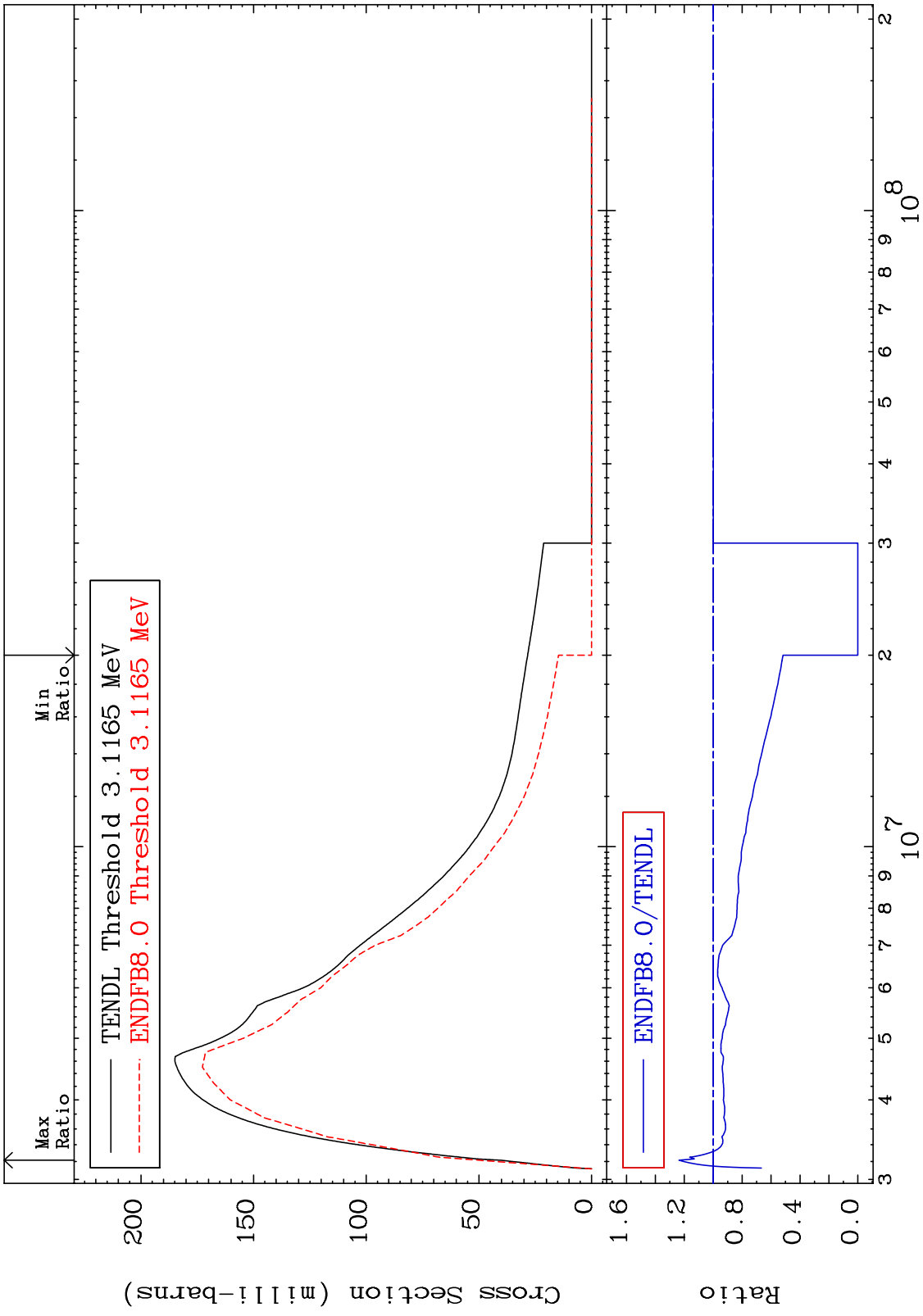
MAT 1325 MT= 54 (n,n') Level Cross Section -100.0 To 0.000 % 13-AI-27



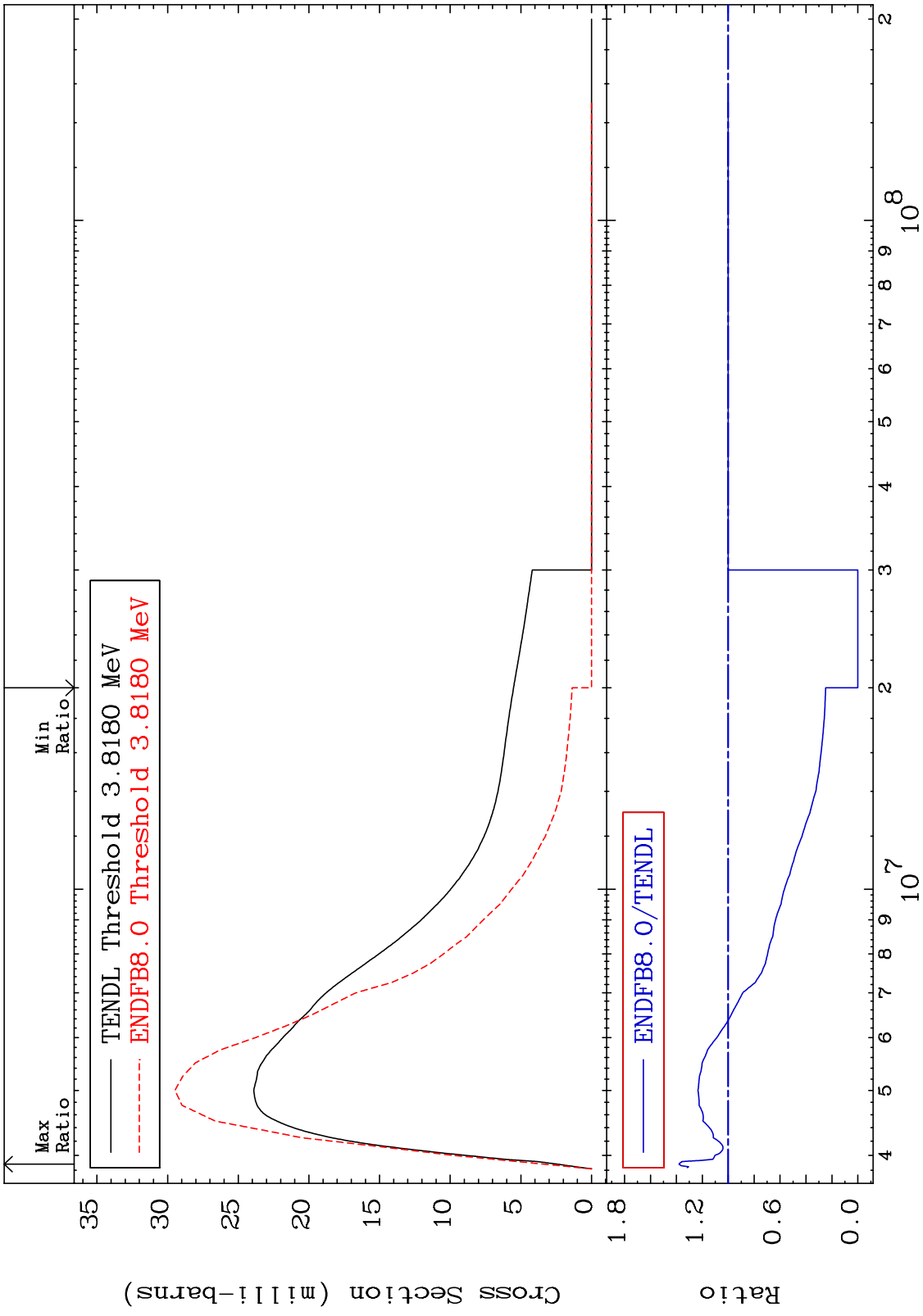
MAT 1325 MT= 55 (n,n') Level Cross Section -100.0 To 0.000 % 13-AI-27



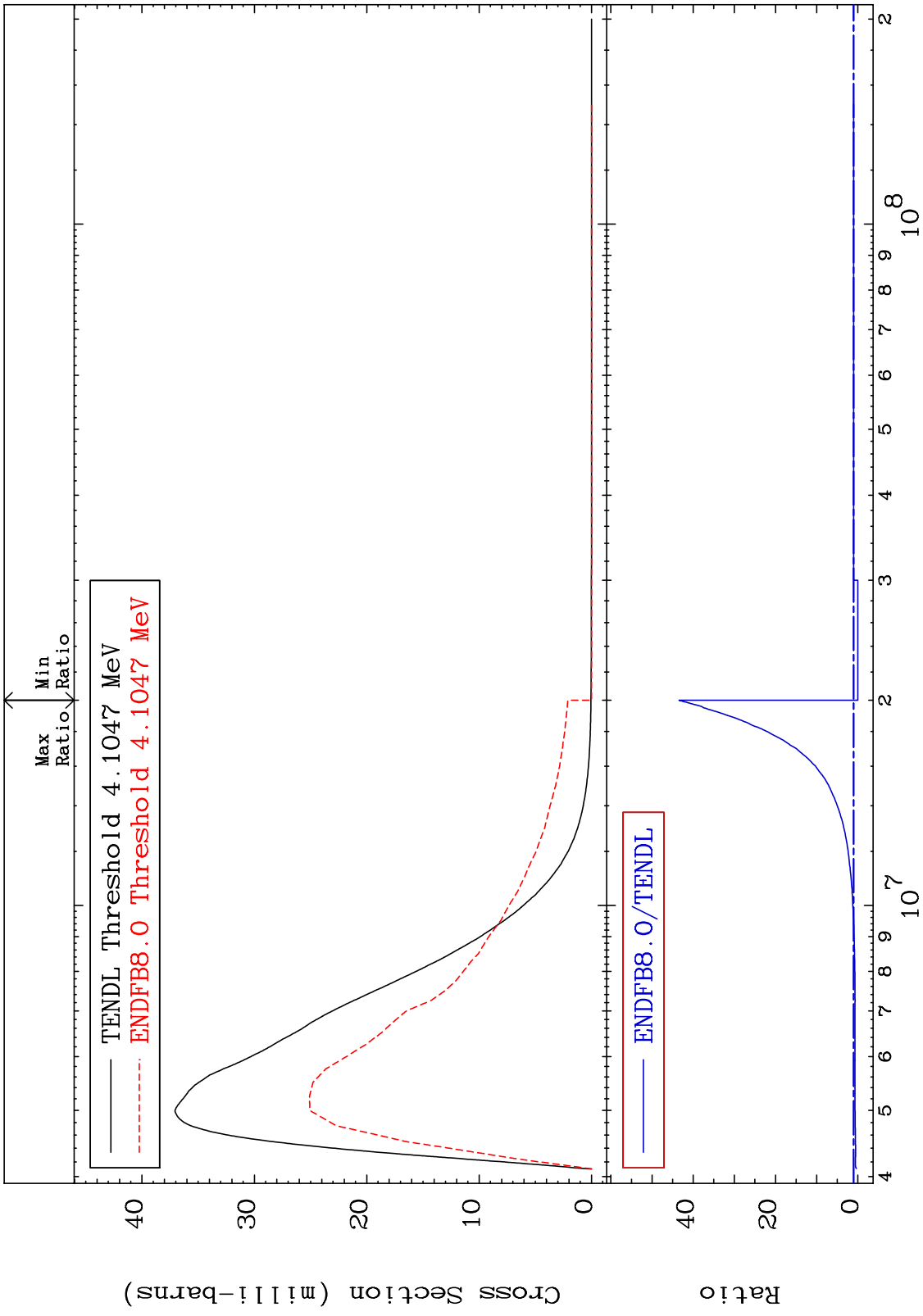
MAT 1325 MT= 56 (n,n') Level Cross Section -100.0 To 23.66 % 13-AI-27



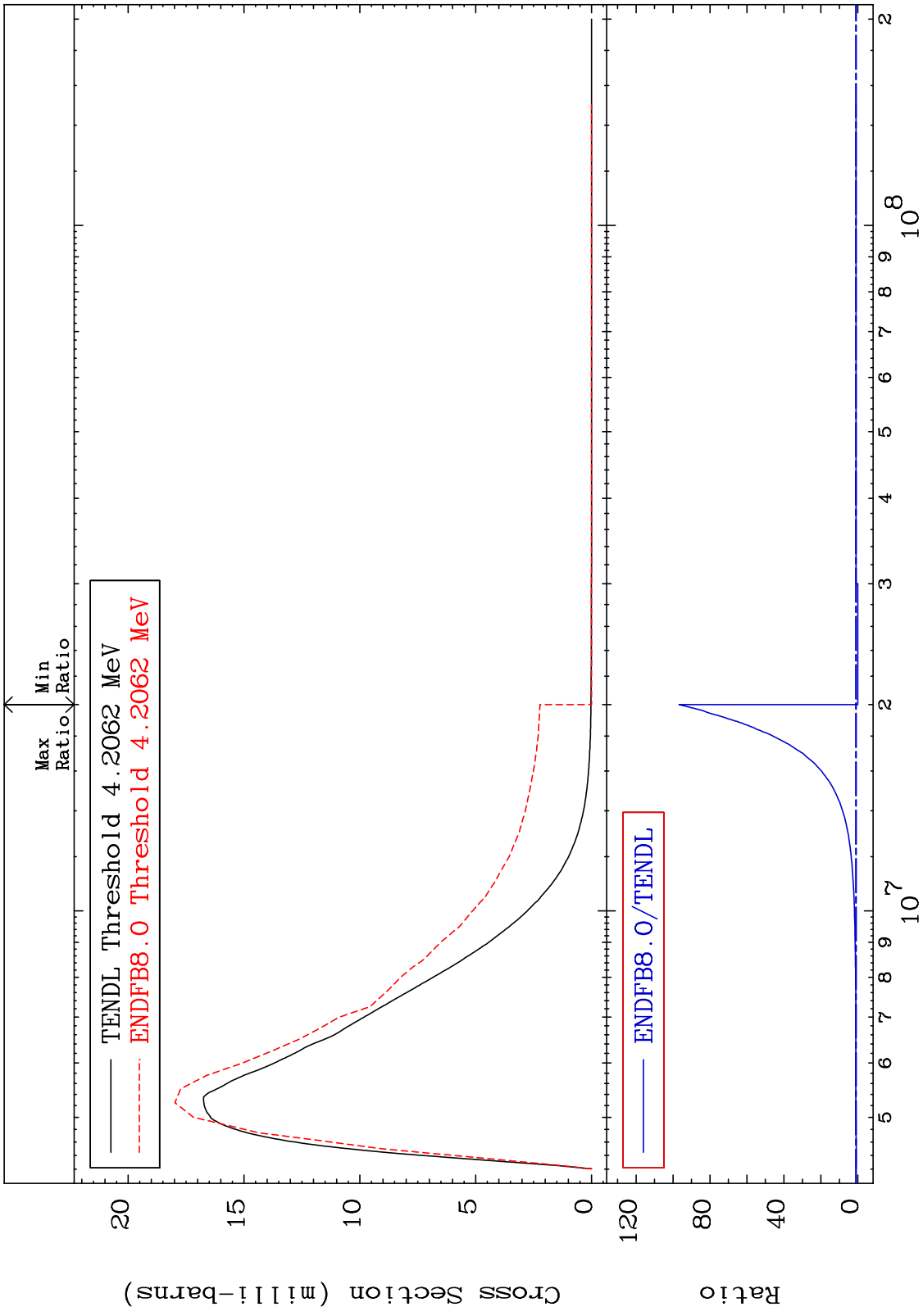
MAT 1325 MT= 57 (n,n') Level Cross Section -100.0 To 37.96 % 13-AI-27



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



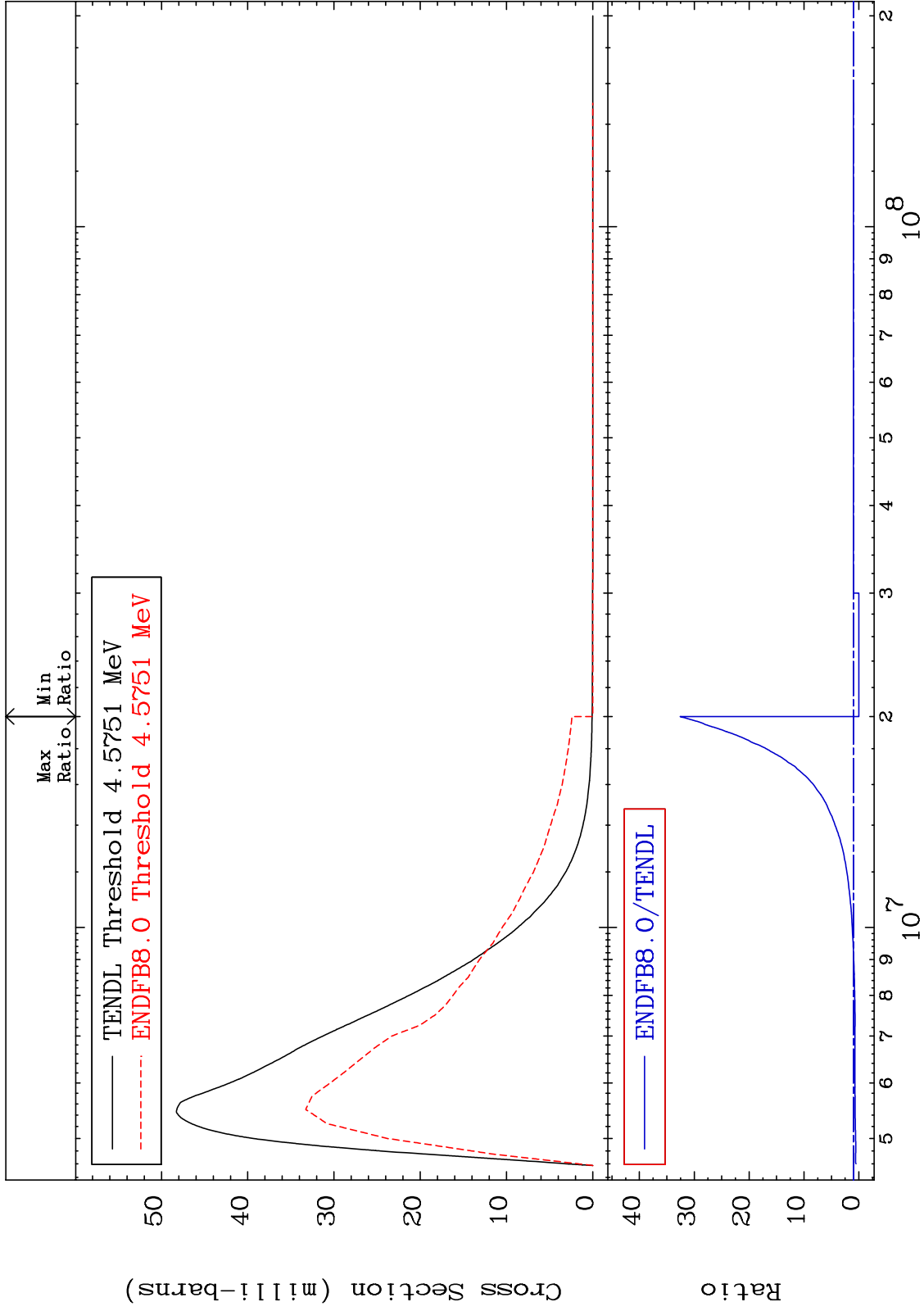
MAT 1325 MT= 59 (n,n') Level Cross Section 13-AI-27
 -100.0 To 9573. %



MAT 1325

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

13-AI-27
-100.0 To 3156. %

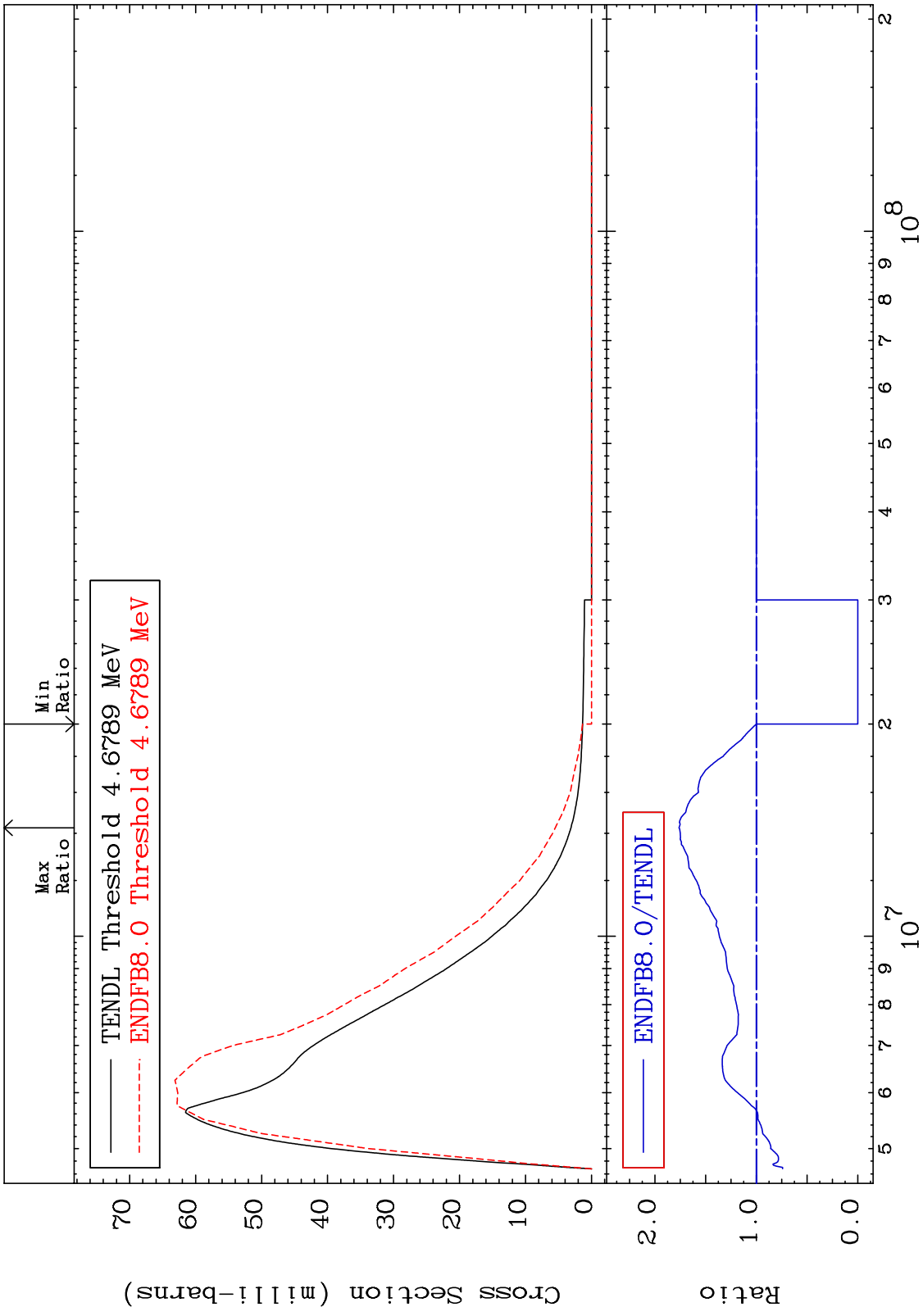


20

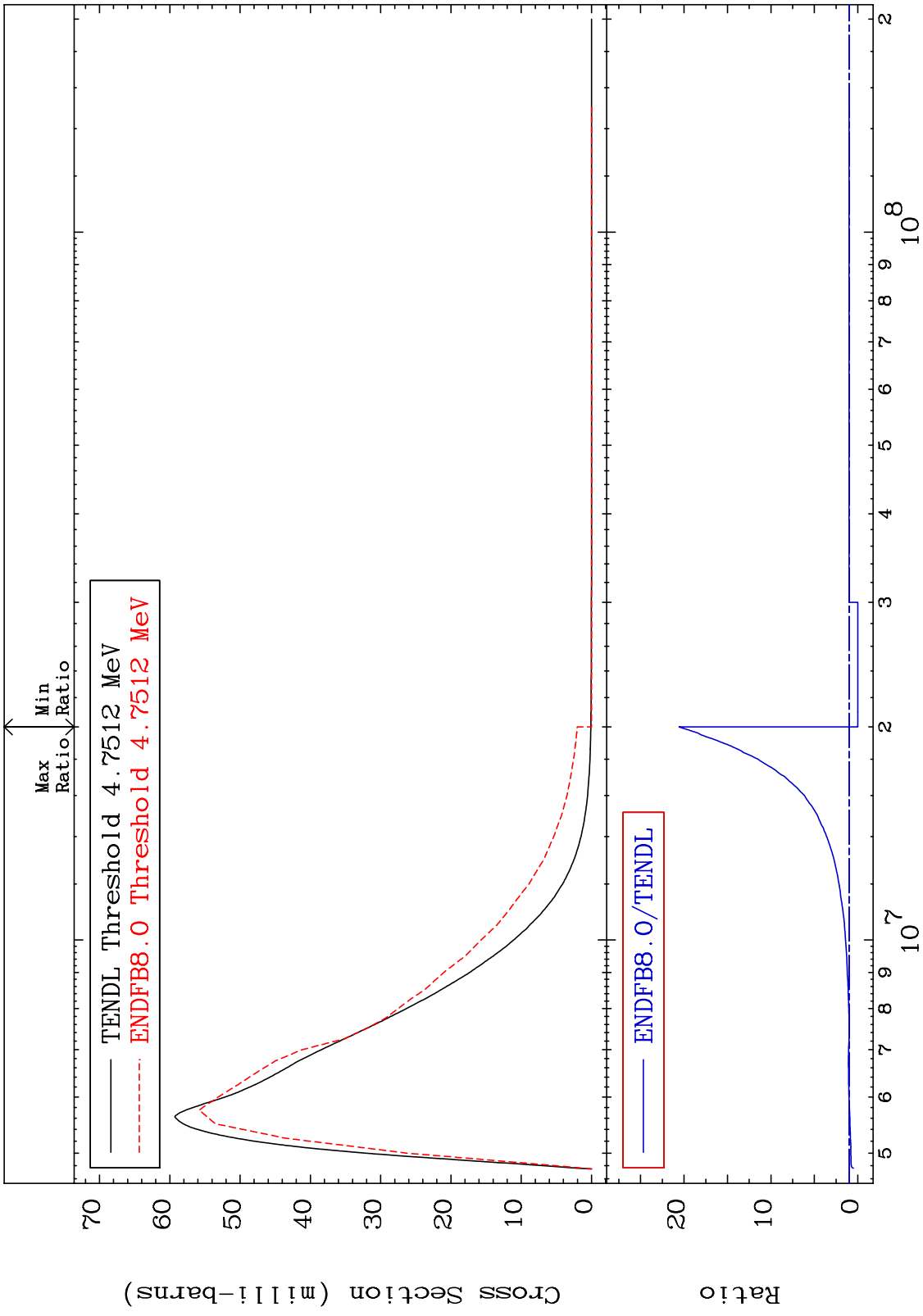
Incident Energy (eV)

13-AI-27

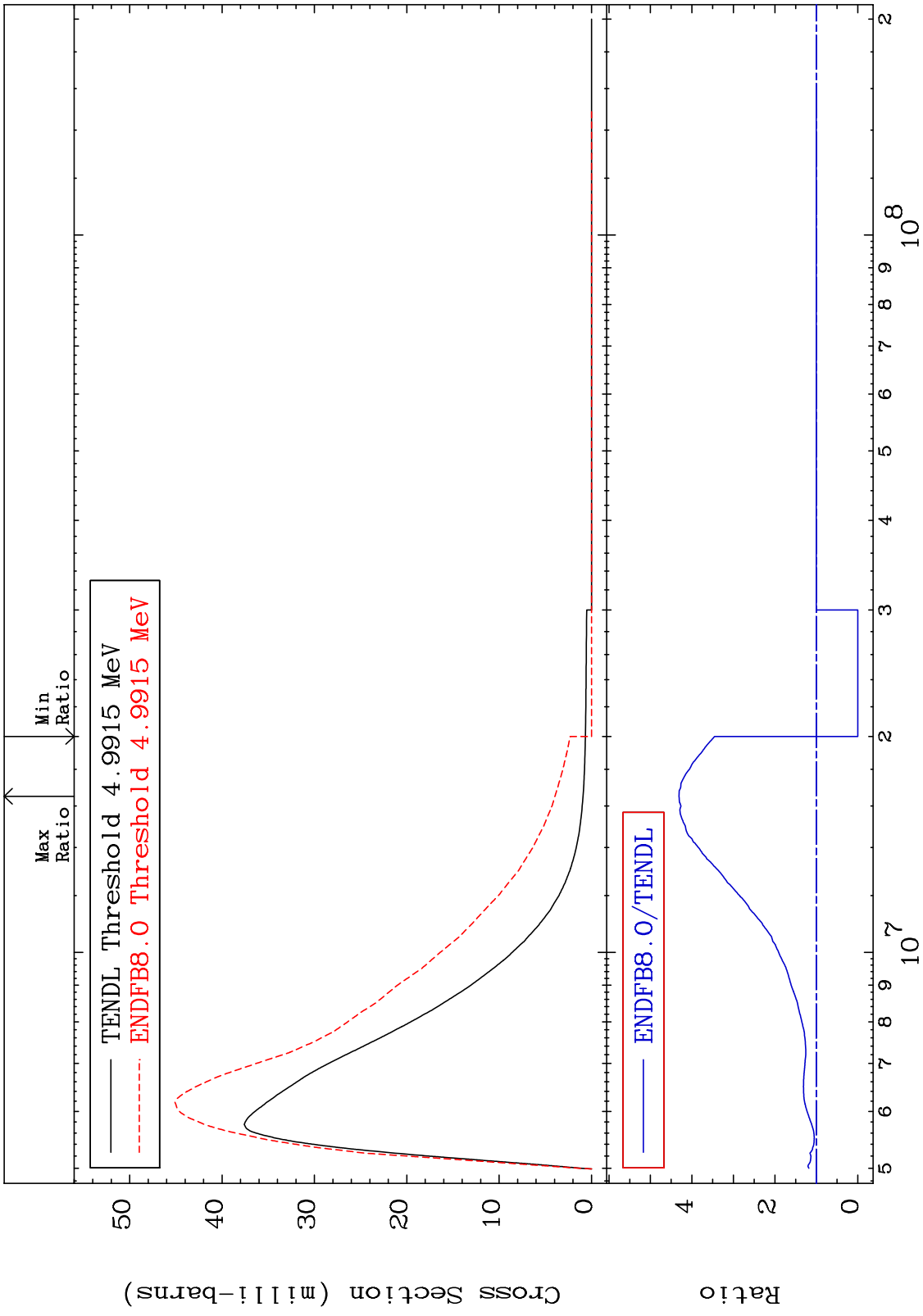
MAT 1325 MT= 61 (n,n') Level Cross Section -100.0 To 76.15 % 13-AI-27



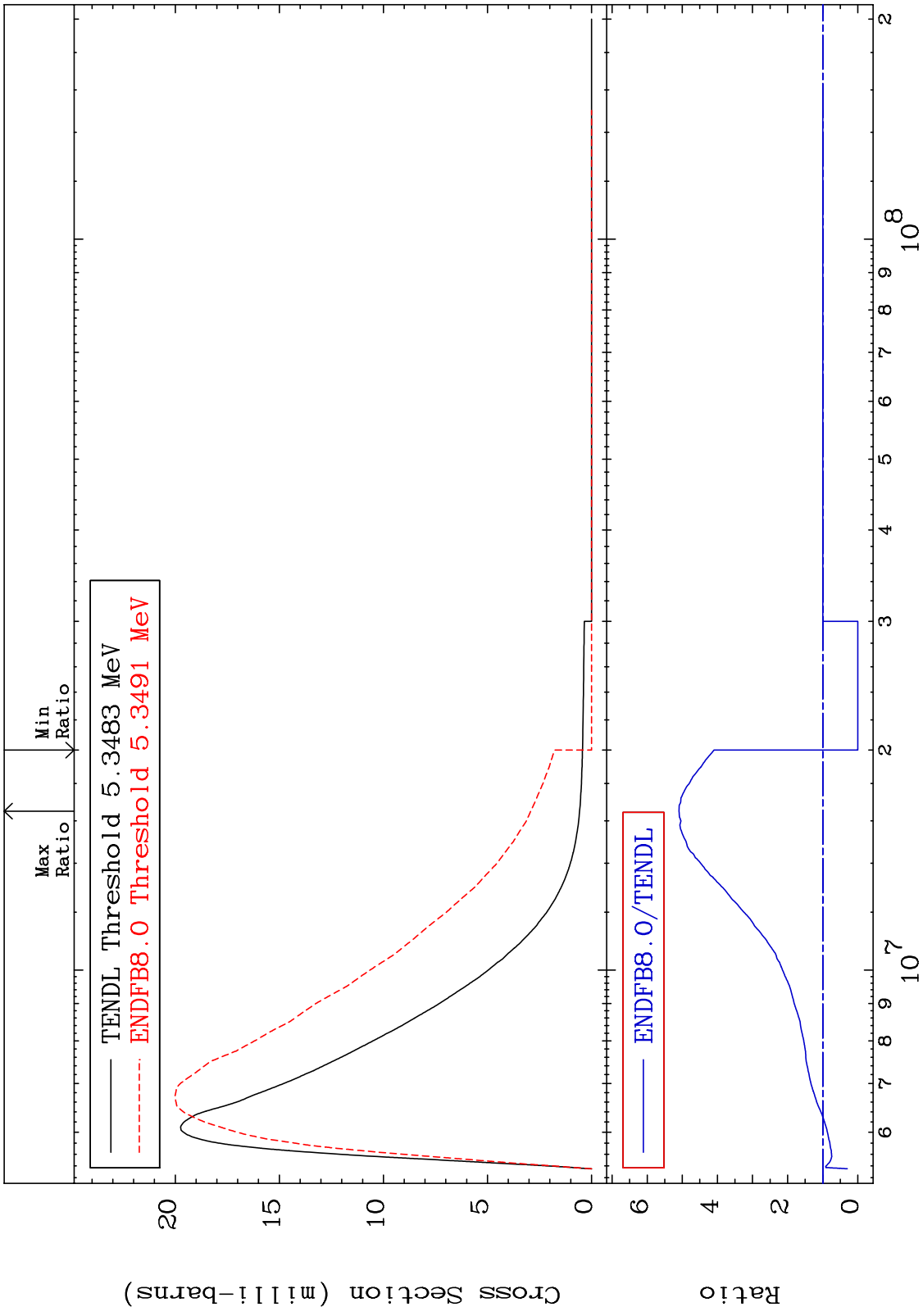
MAT 1325 MT= 62 (n,n') Level Cross Section -100.0 To 1958. % 13-AI-27



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



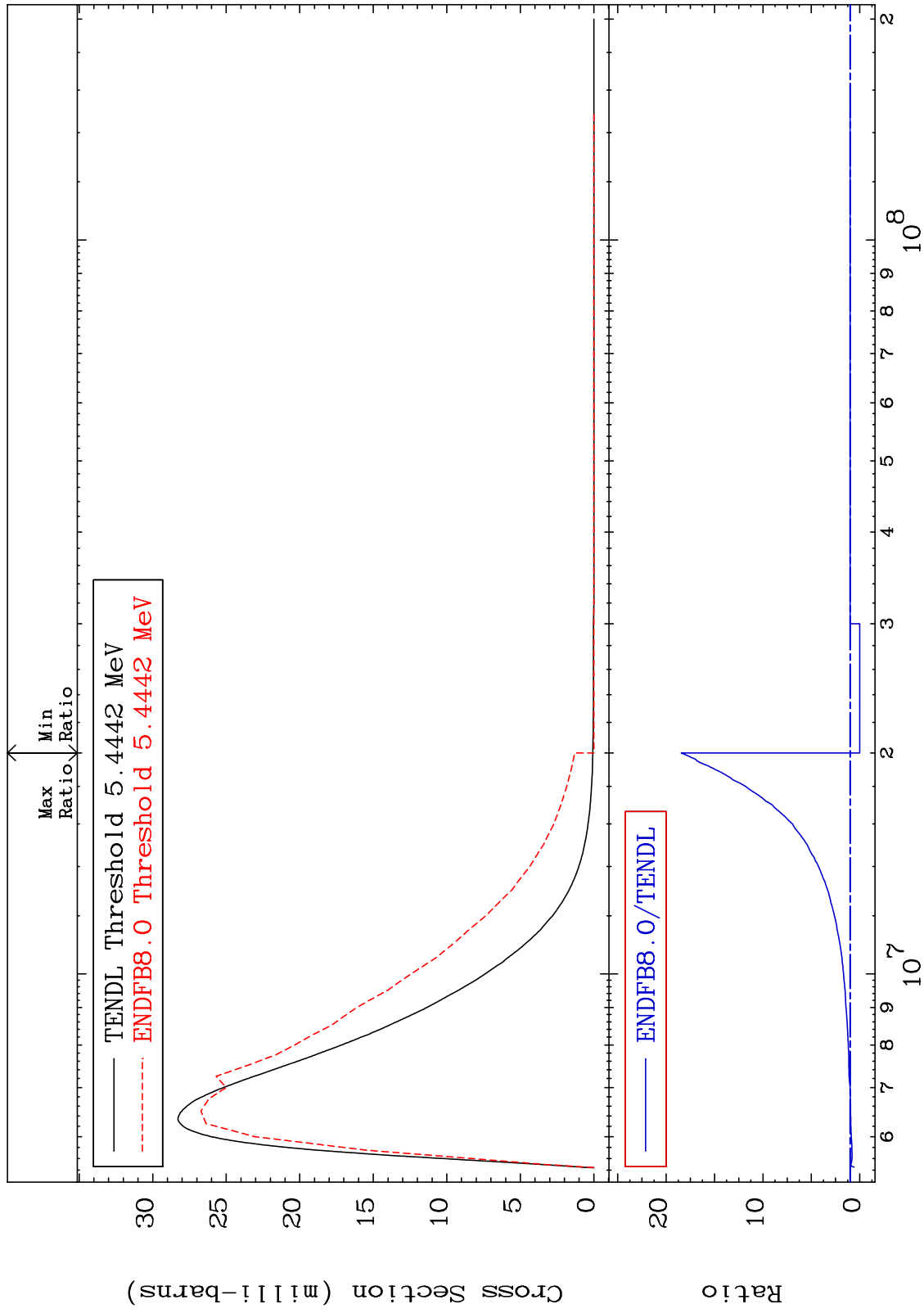
MAT 1325 MT= 64 (n,n') Level Cross Section -100.0 To 409.2 % 13-AI-27



MAT 1325

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

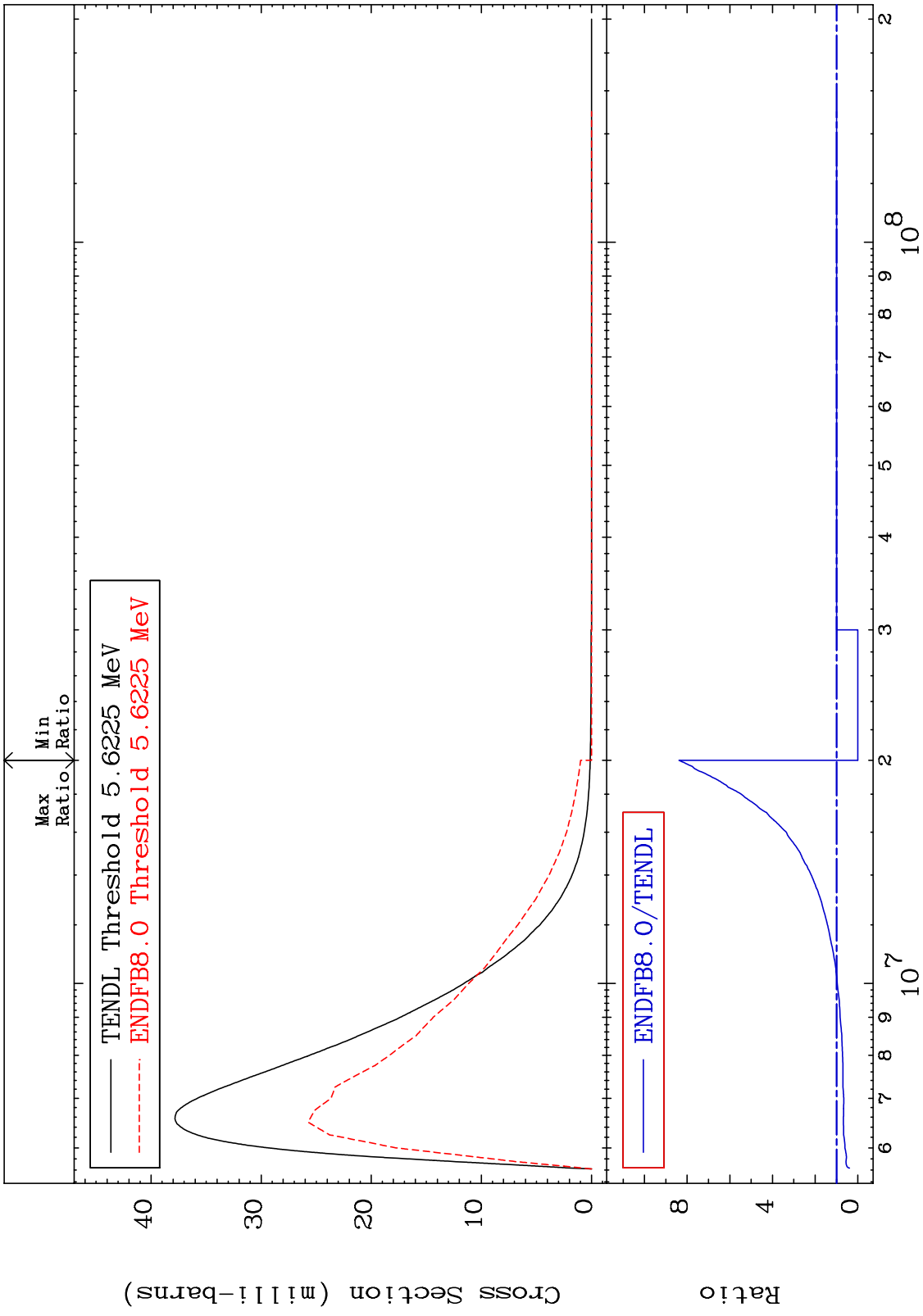
13-AI-27
-100.0 To 1744. %



25

13-AI-27

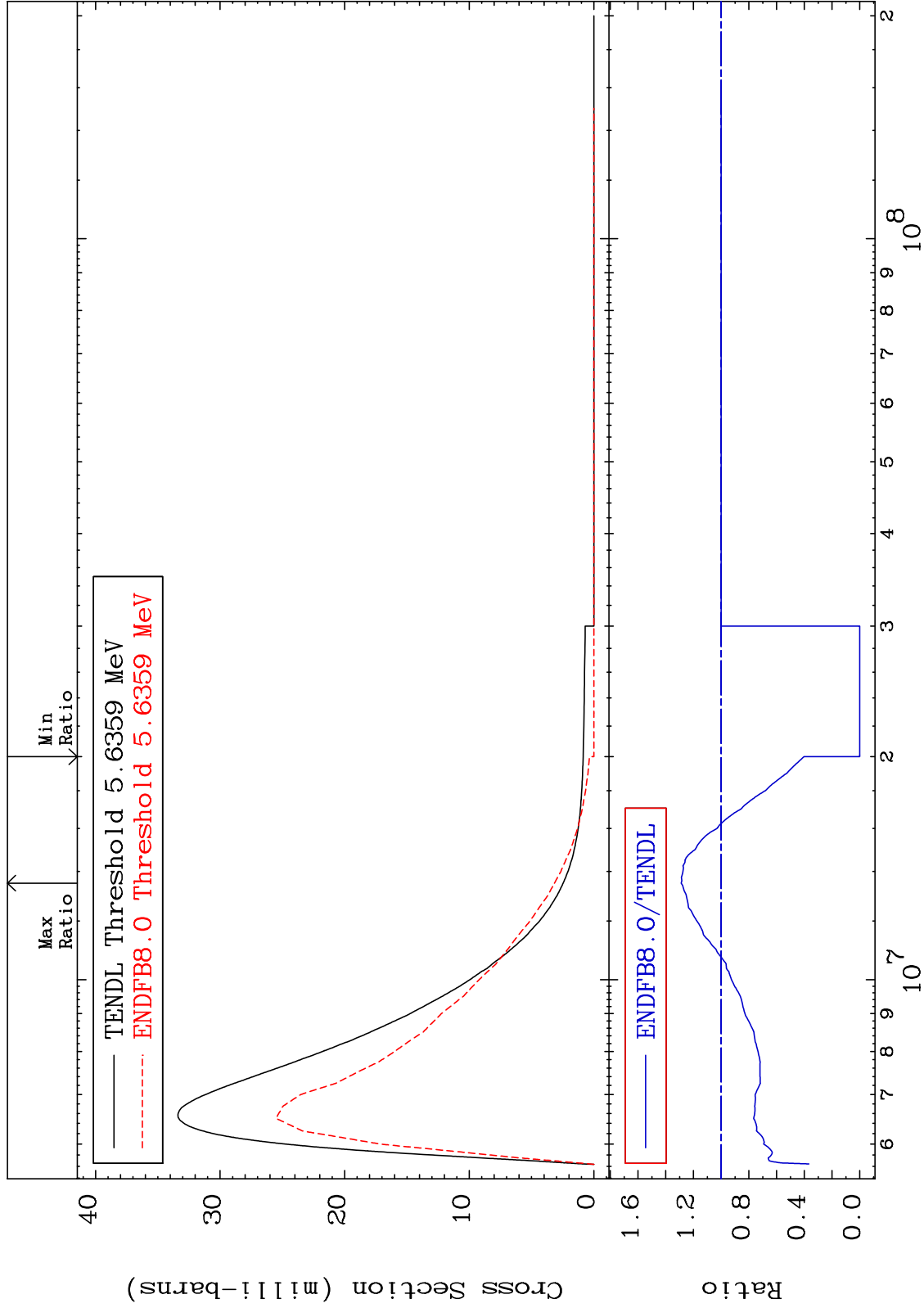
MAT 1325 MT= 66 (n,n') Level Cross Section 13-AI-27
 -100.0 To 738.0 %



MAT 1325

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

13-AI-27
-100.0 To 28.80 %



27

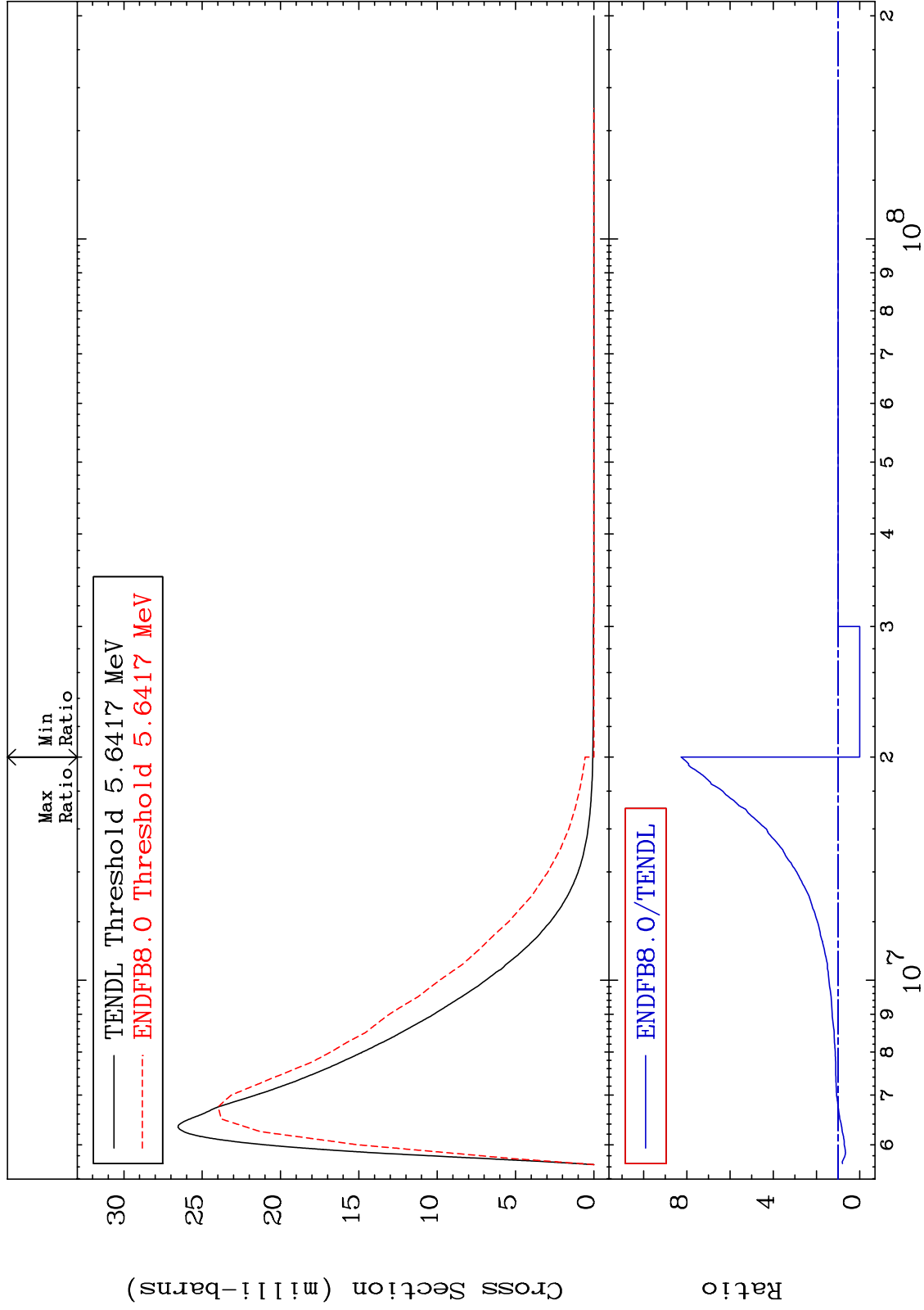
Incident Energy (eV)

13-AI-27

MAT 1325

MT= 68 (n,n') Level
Cross Section

13-AI-27
-100.0 To 726.1 %



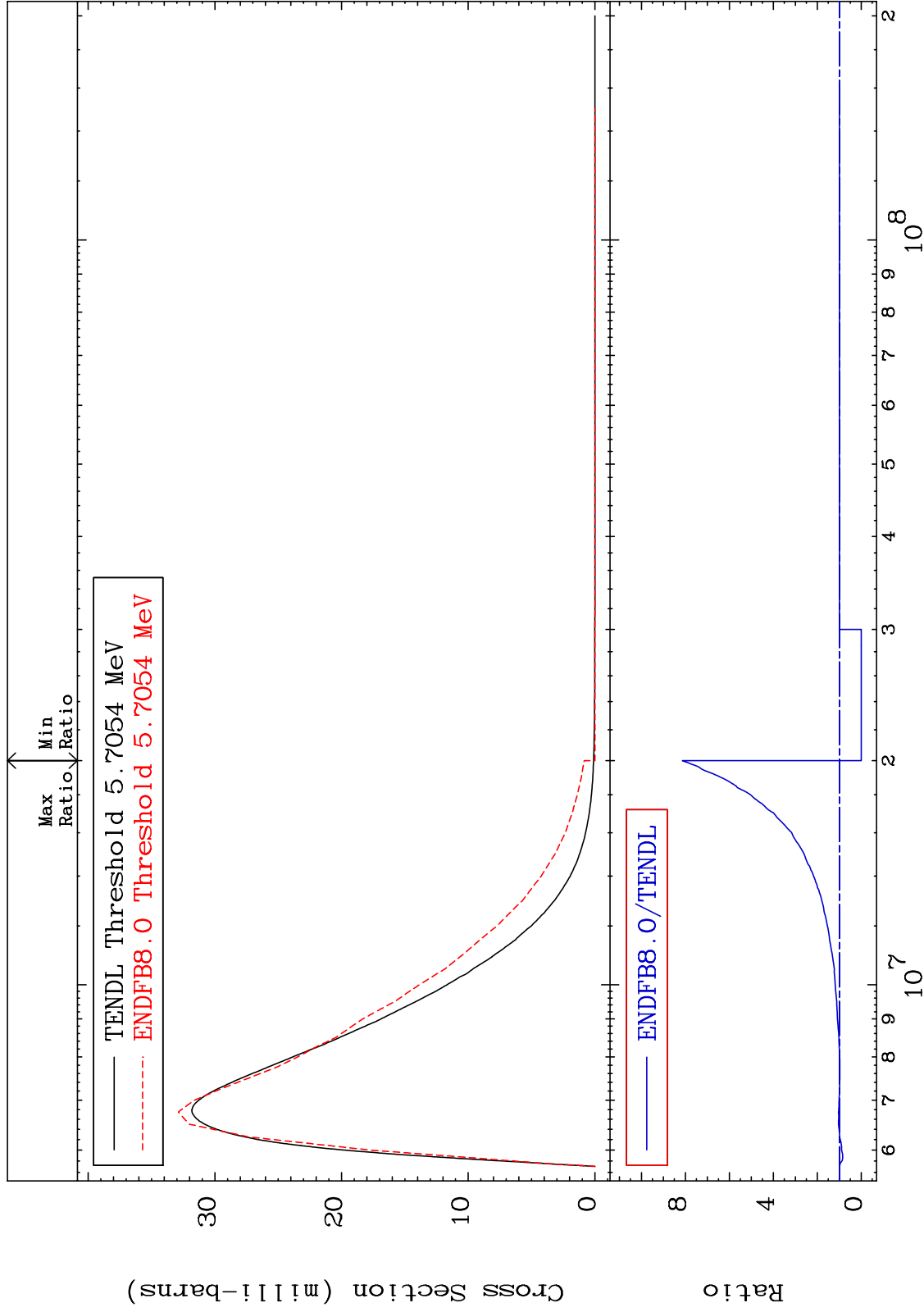
28

13-AI-27

MAT 1325

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

13-AI-27
-100.0 To 713.3 %



29

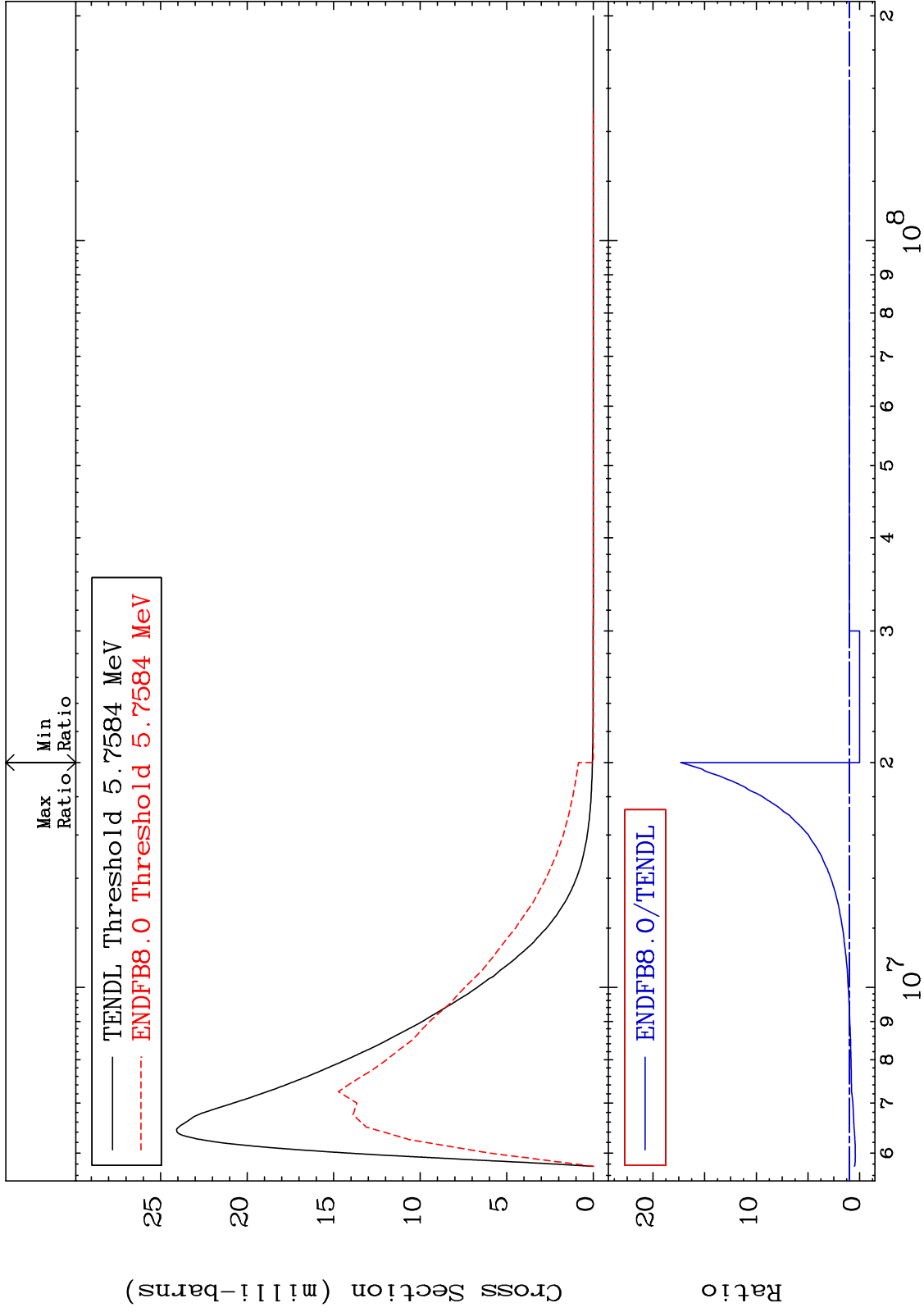
Incident Energy (eV)

13-AI-27

MAT 1325

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

13-AI-27
-100.0 To 1631. %



30

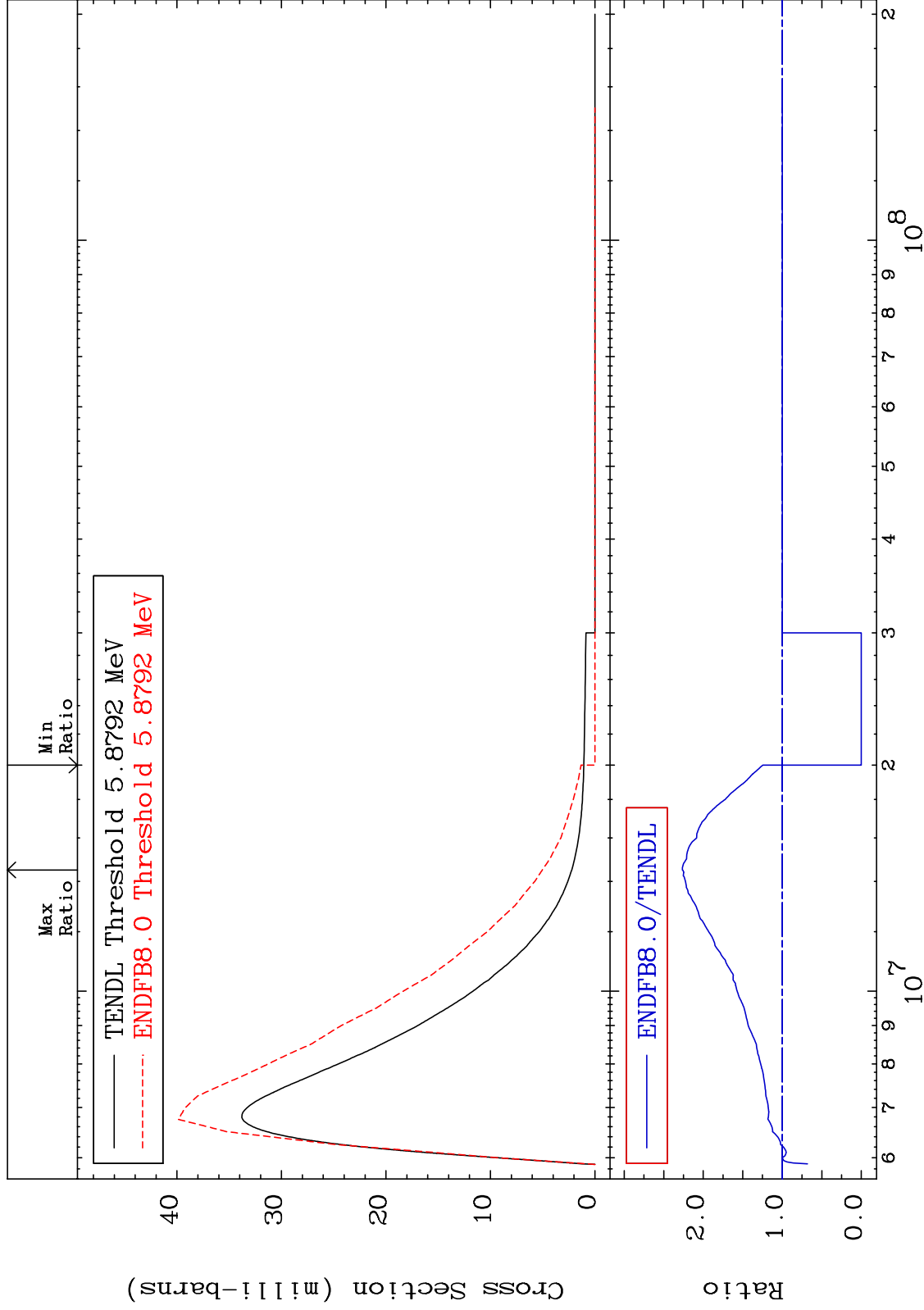
Incident Energy (eV)

13-AI-27

MAT 1325

MT= 71 (n,n') Level
Cross Section

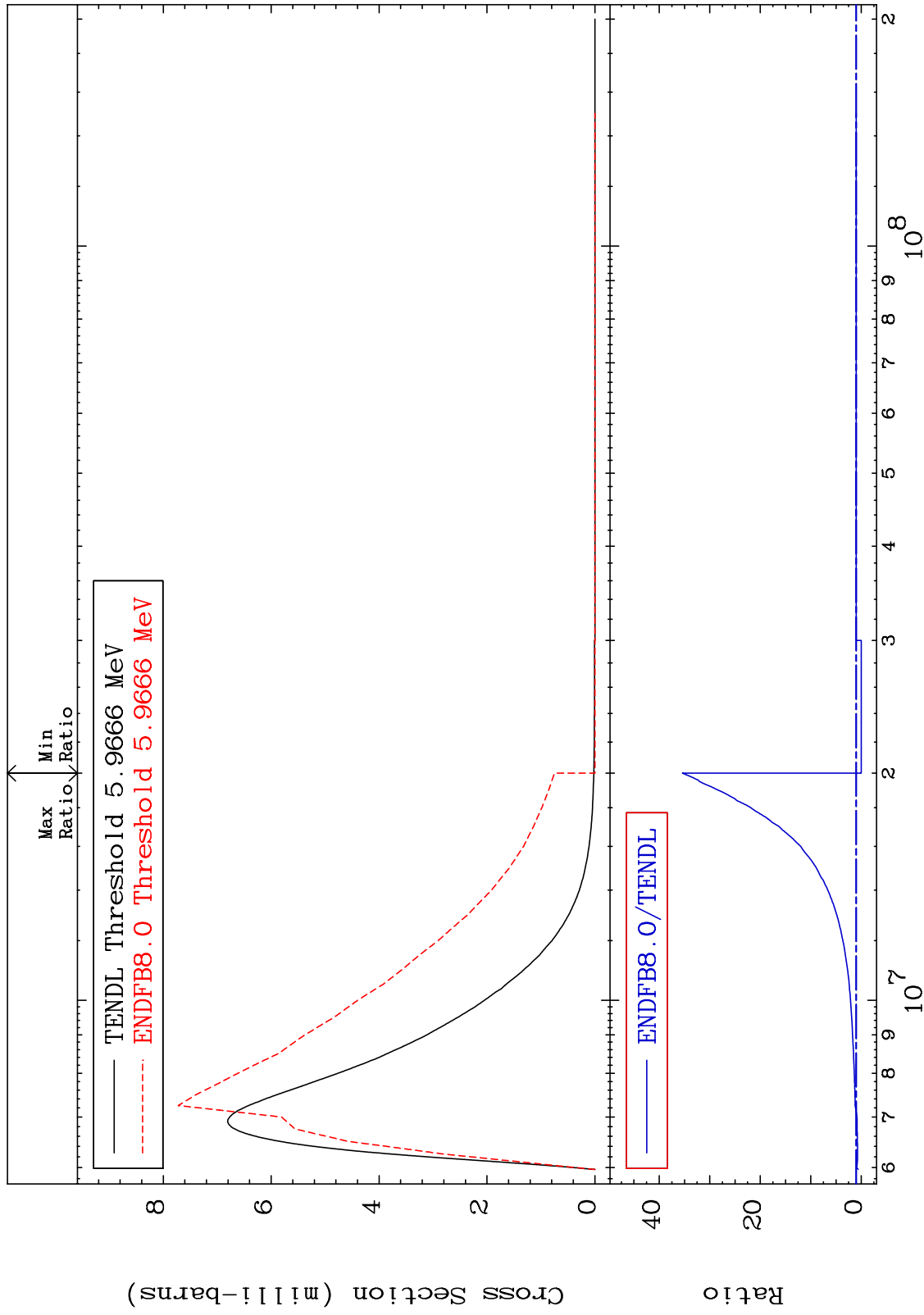
13-AI-27
-100.0 To 126.3 %



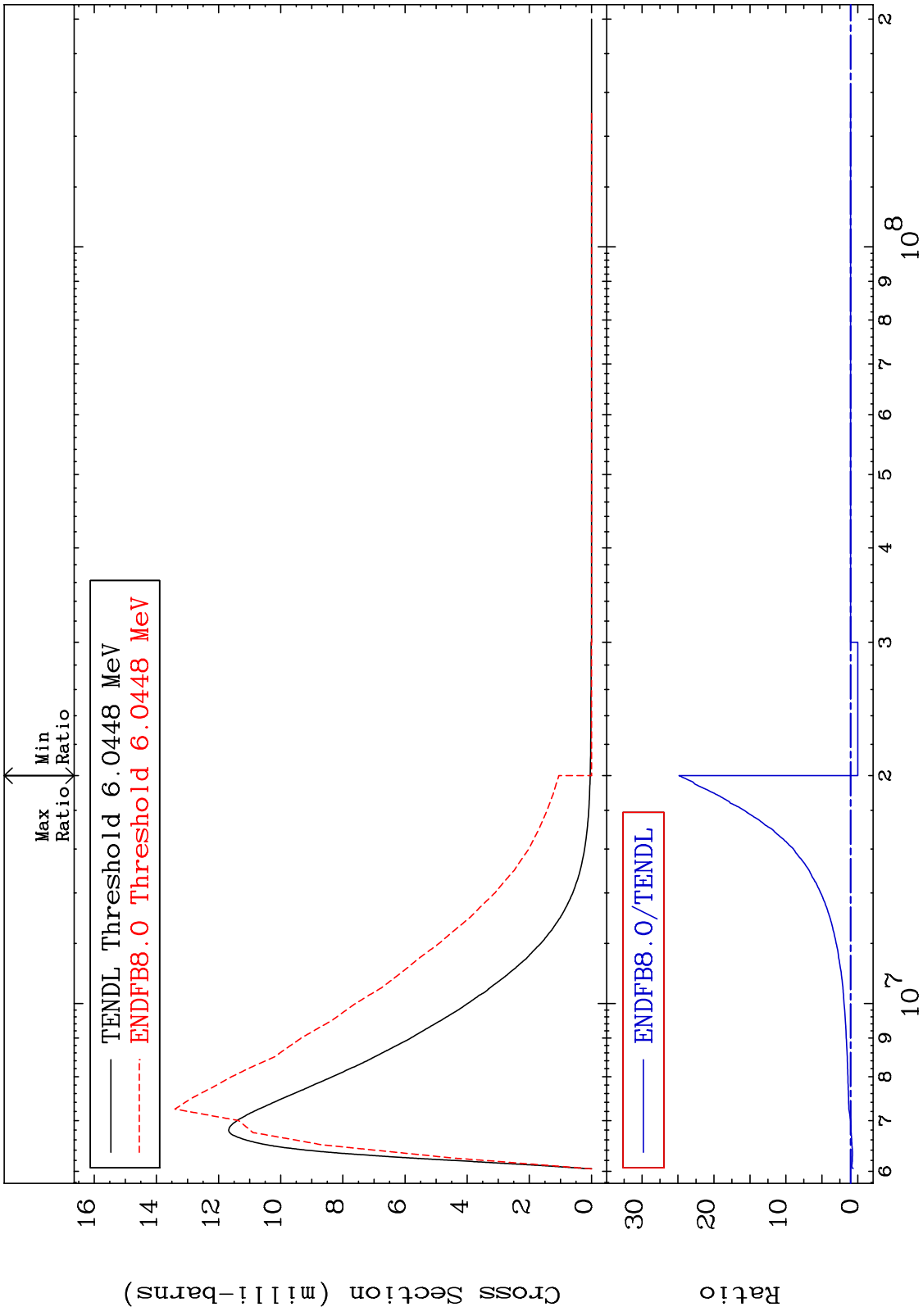
MAT 1325

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

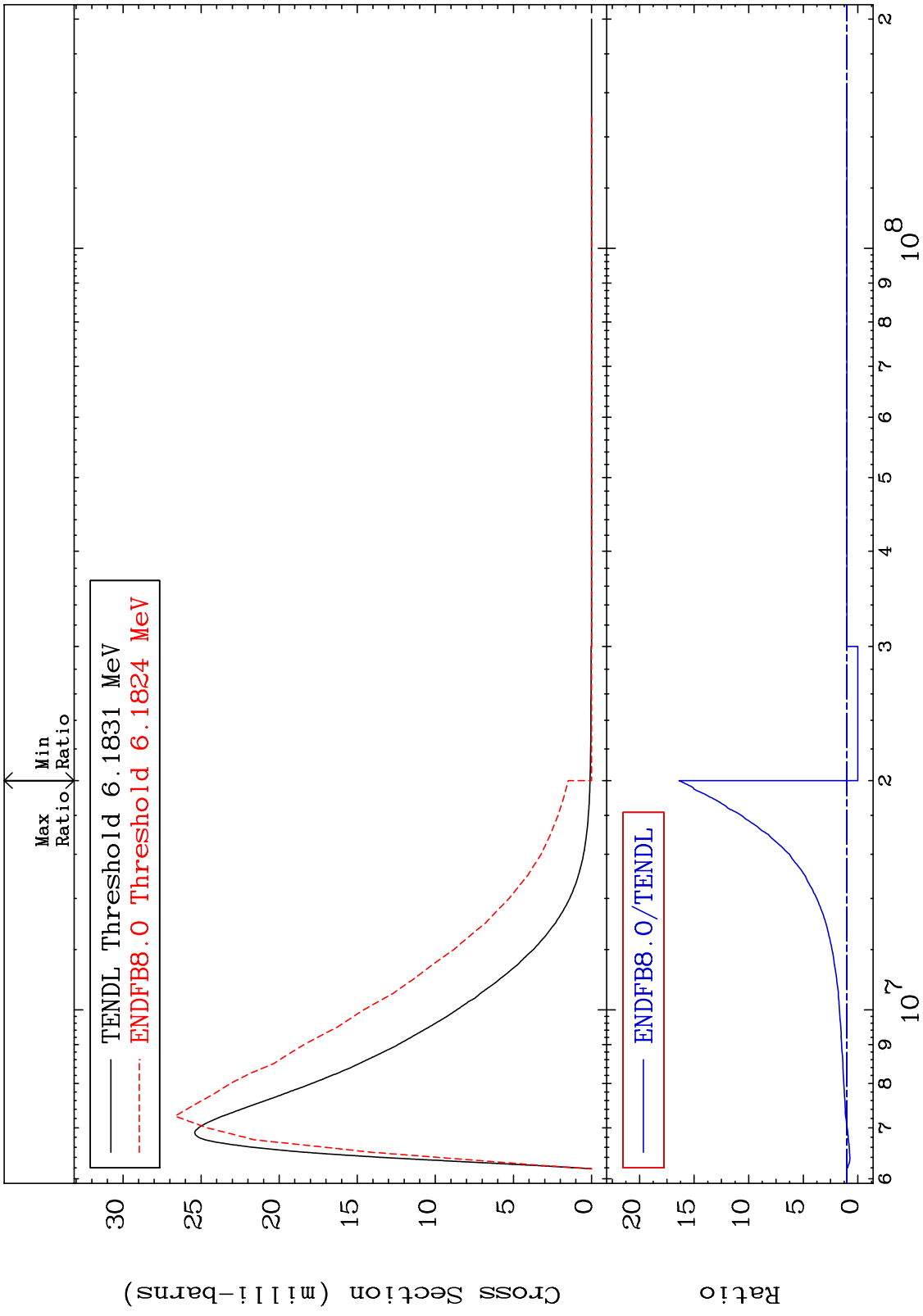
13-AI-27
-100.0 To 3440. %



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



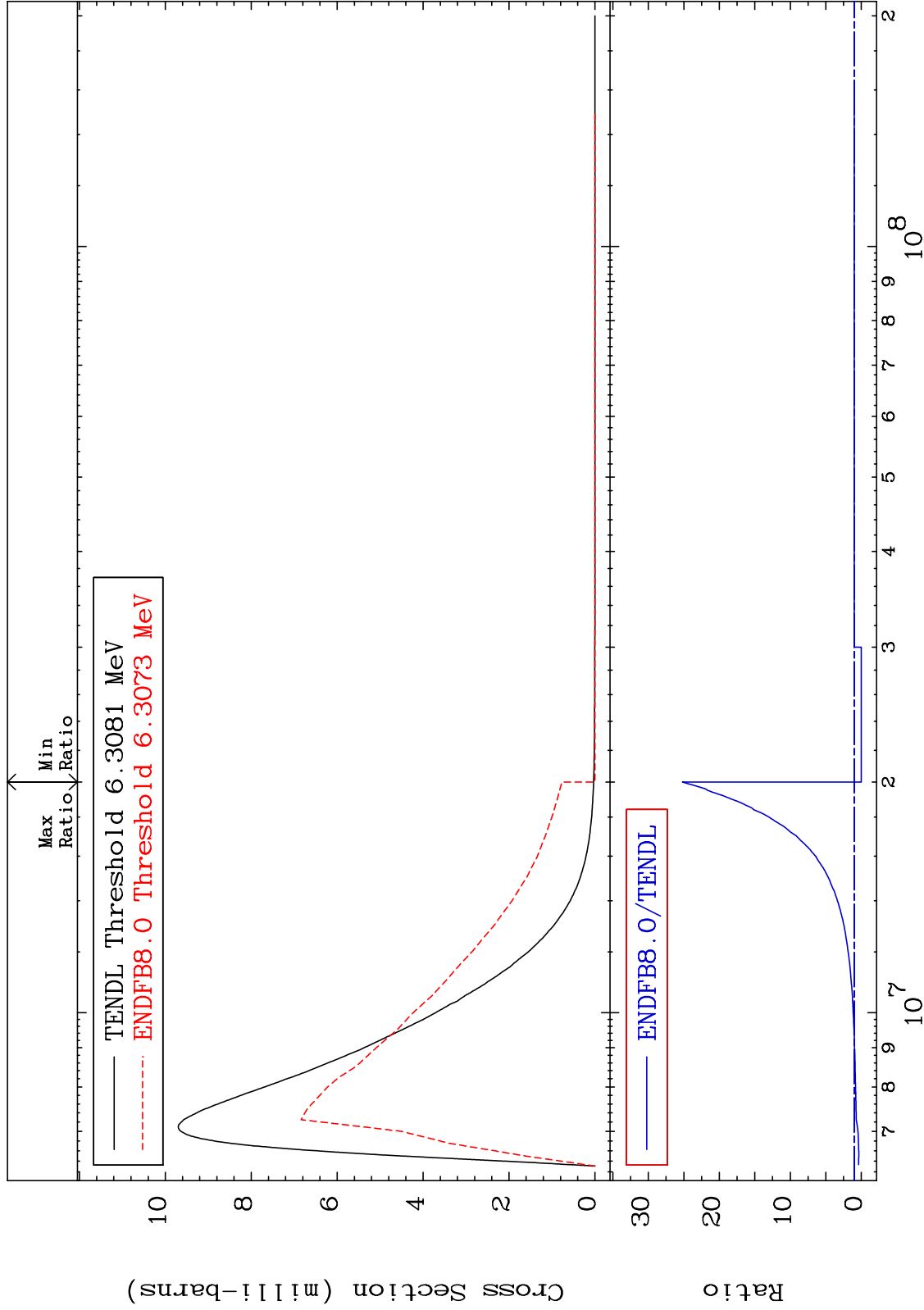
MAT 1325 MT= 74 (n,n') Level Cross Section -100.0 To 1538. % 13-AI-27



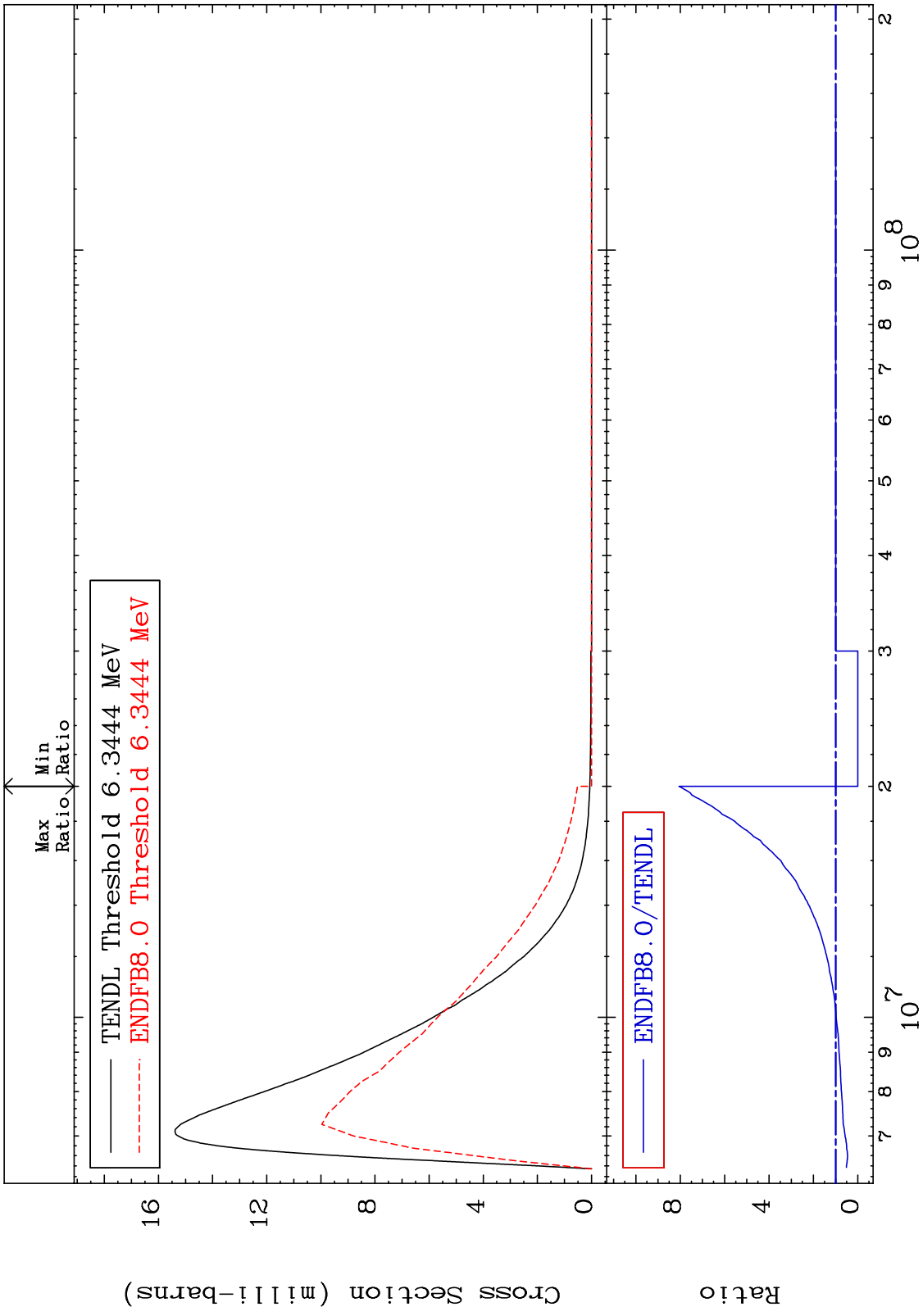
MAT 1325

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

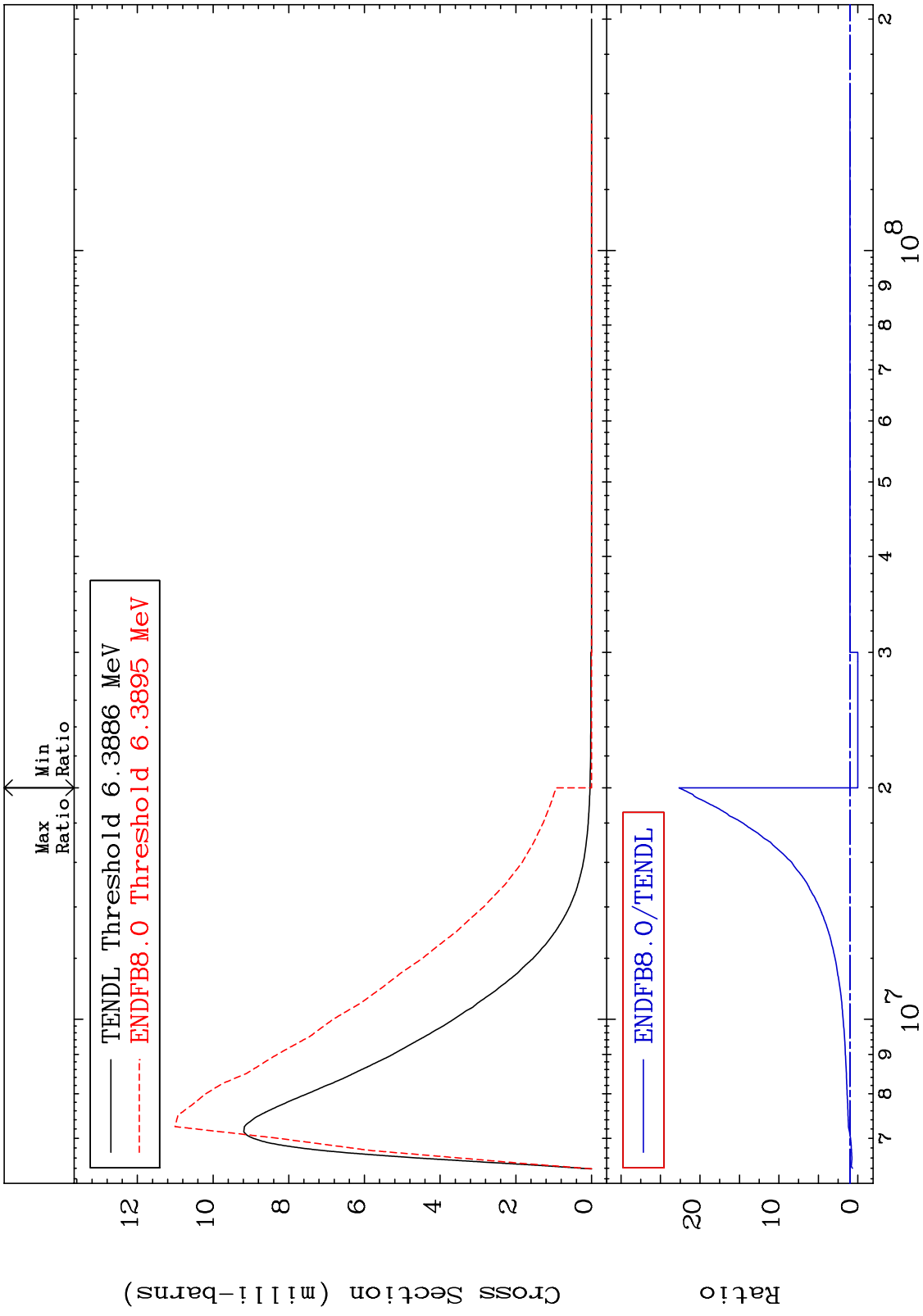
13-AI-27
-100.0 To 2419. %



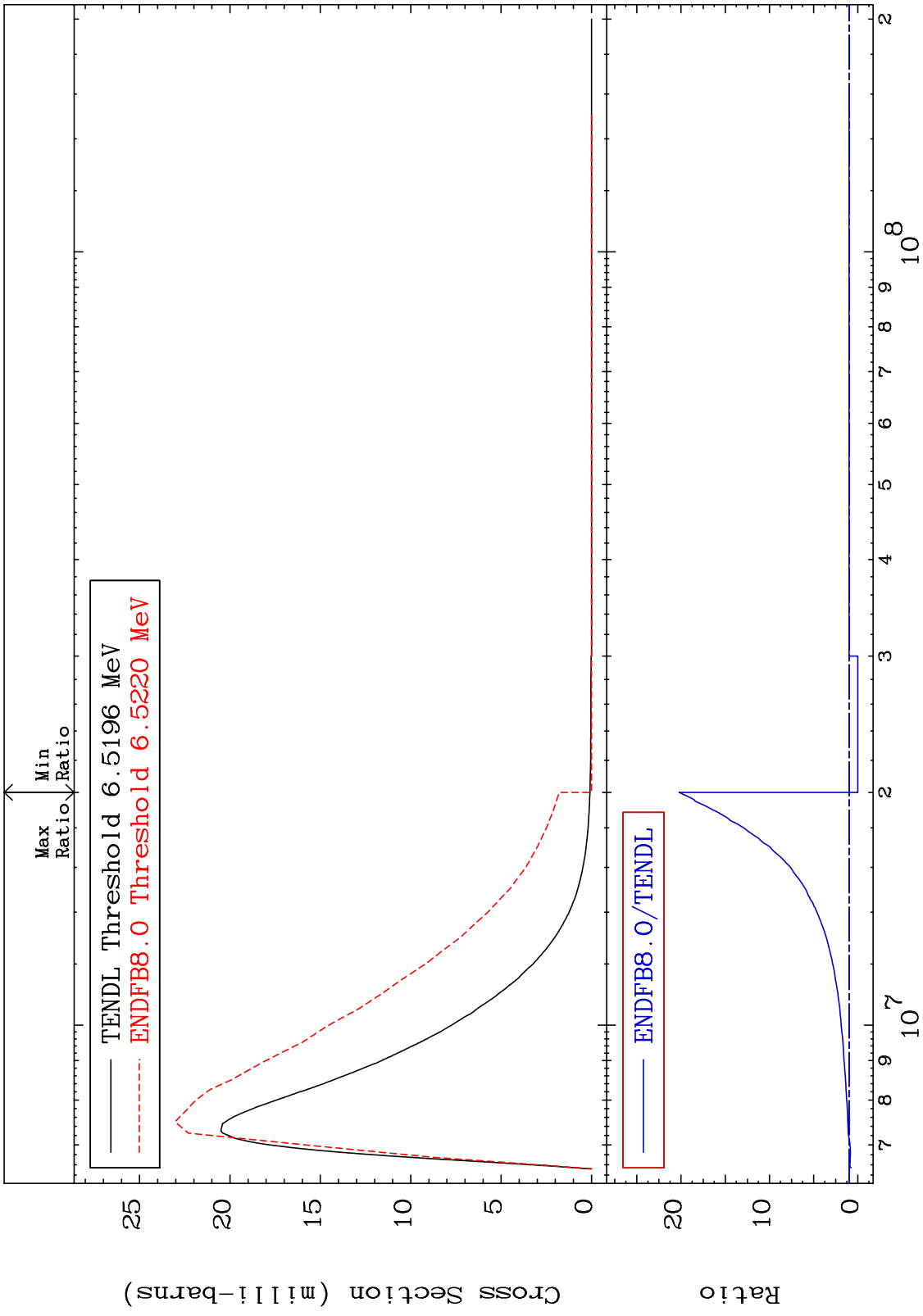
MAT 1325 MT= 76 (n,n') Level Cross Section 13-AI-27
 -100.0 To 705.3 %



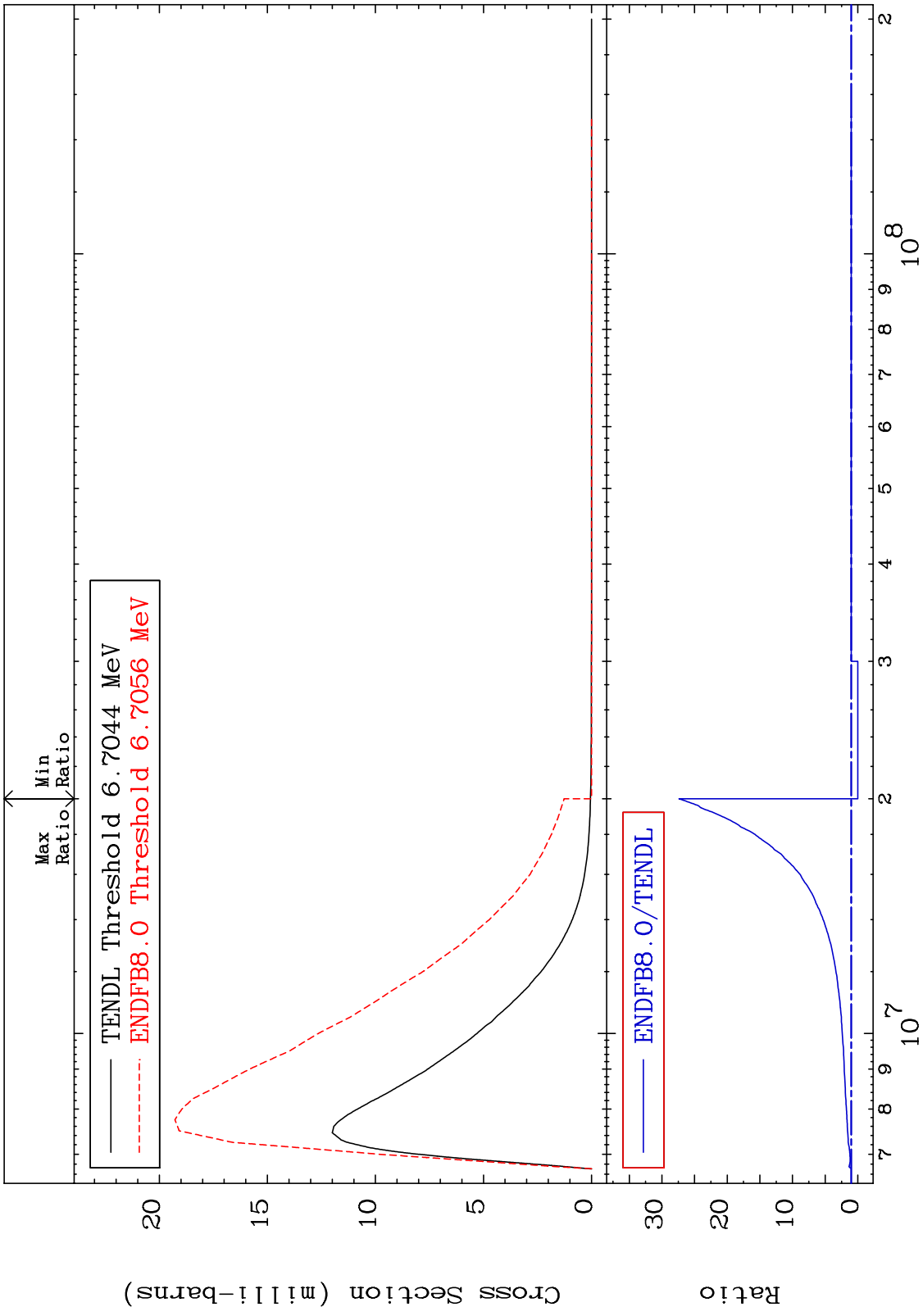
MAT 1325 MT= 77 (n,n') Level Cross Section -100.0 To 2165. % 13-AI-27



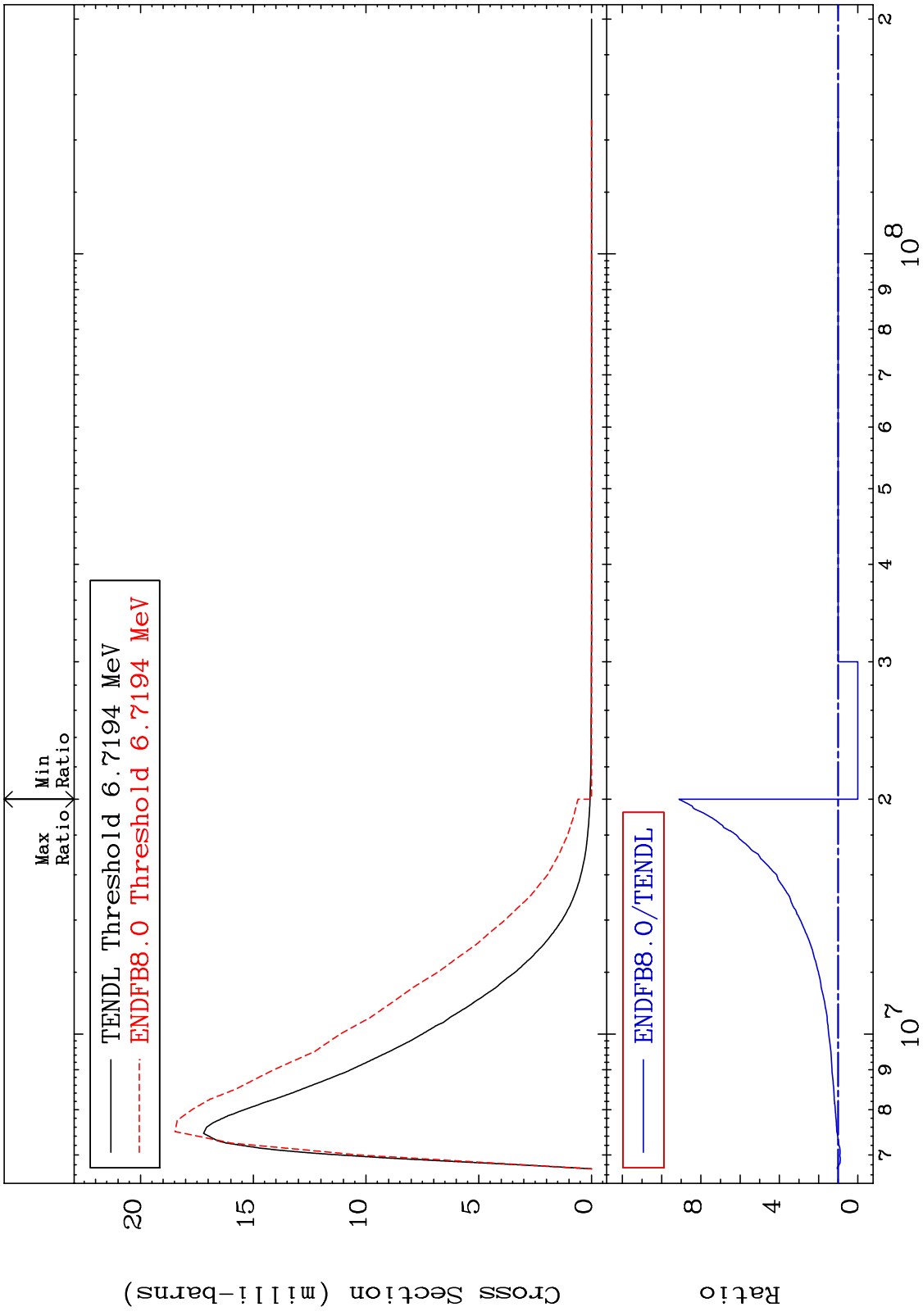
MAT 1325 MT= 78 (n,n') Level Cross Section 13-AI-27
 -100.0 To 1923. %

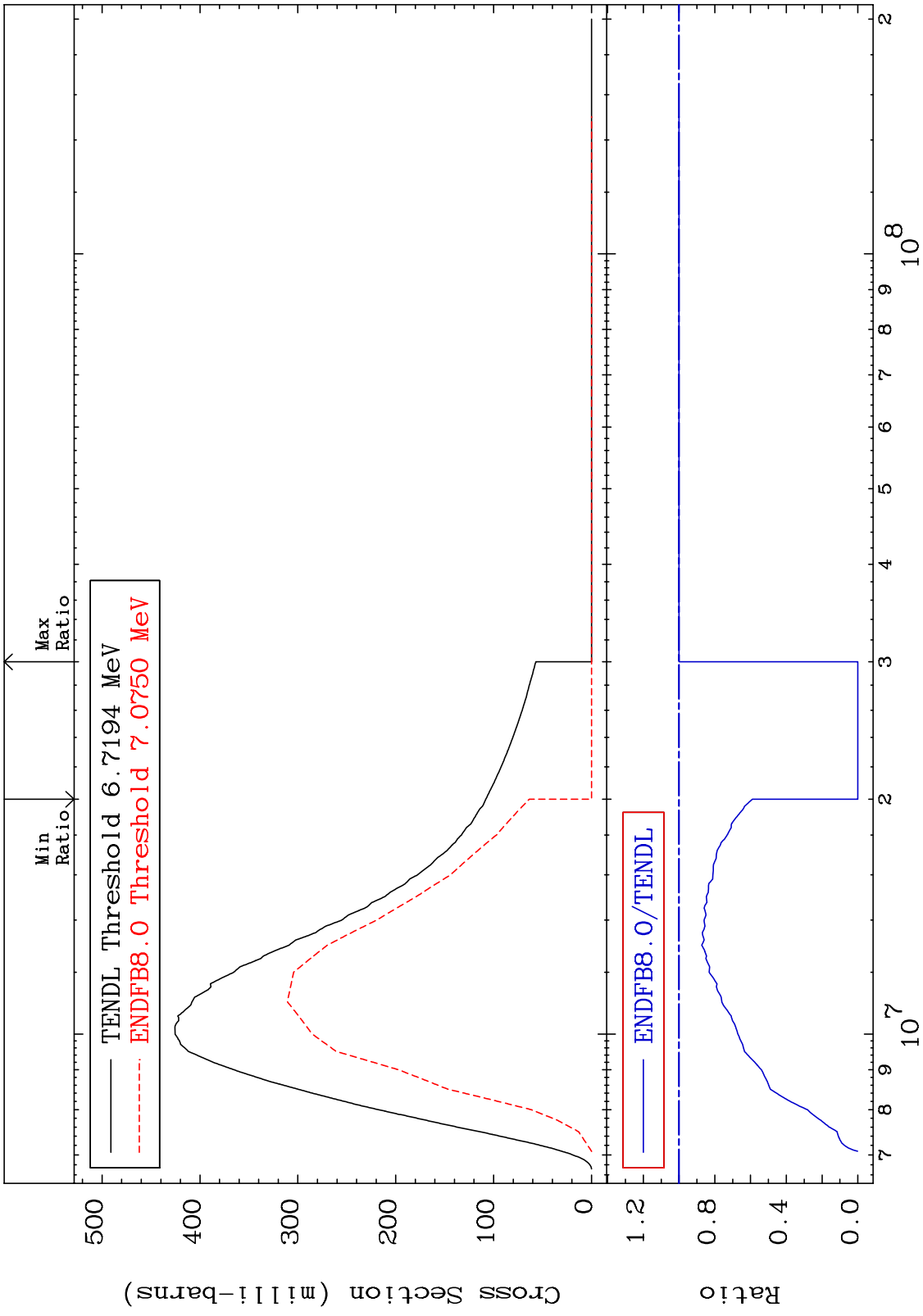


MAT 1325 MT= 79 (n,n') Level Cross Section -100.0 To 2638. % 13-AI-27



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





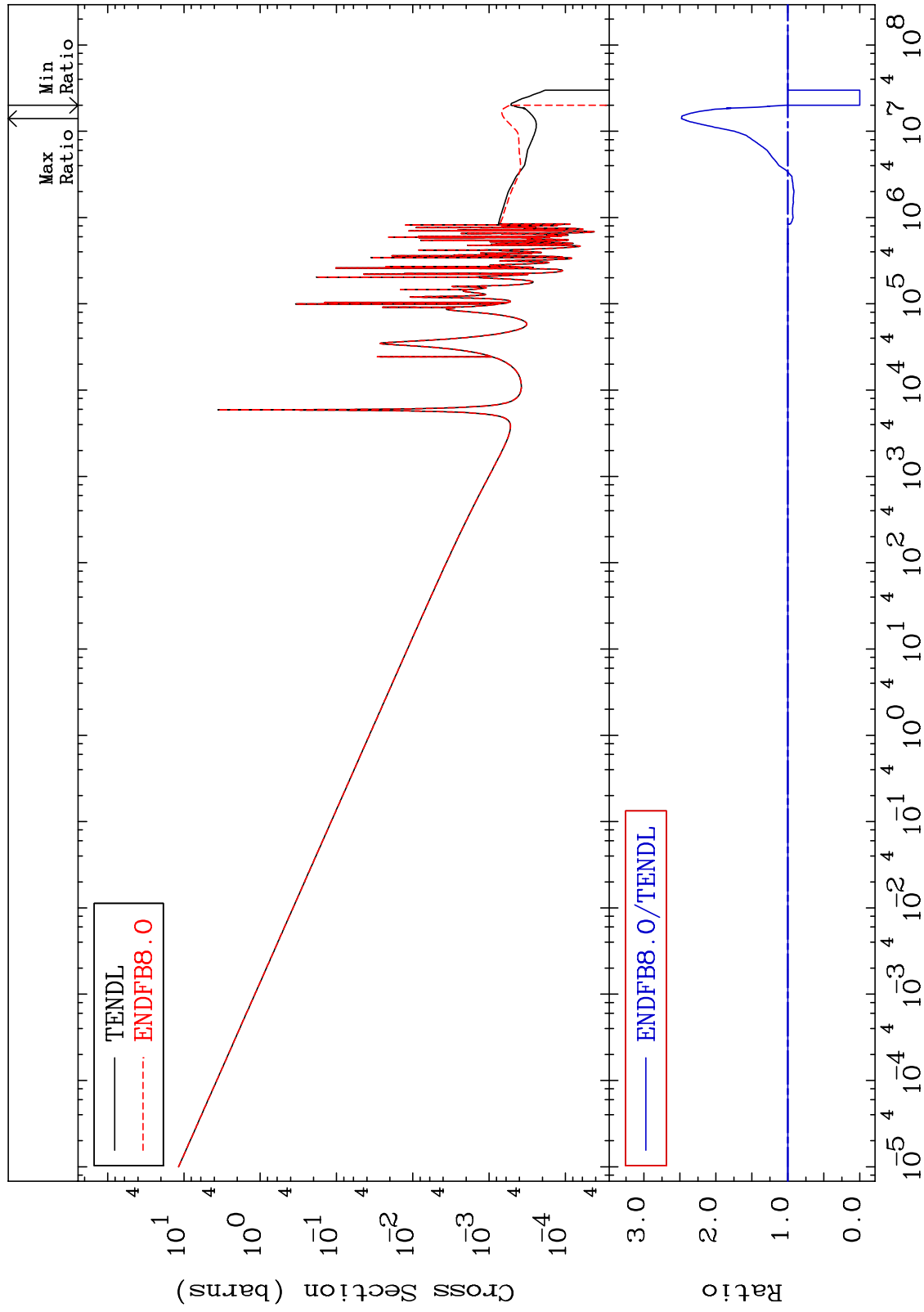
MAT 1325

(n, γ)

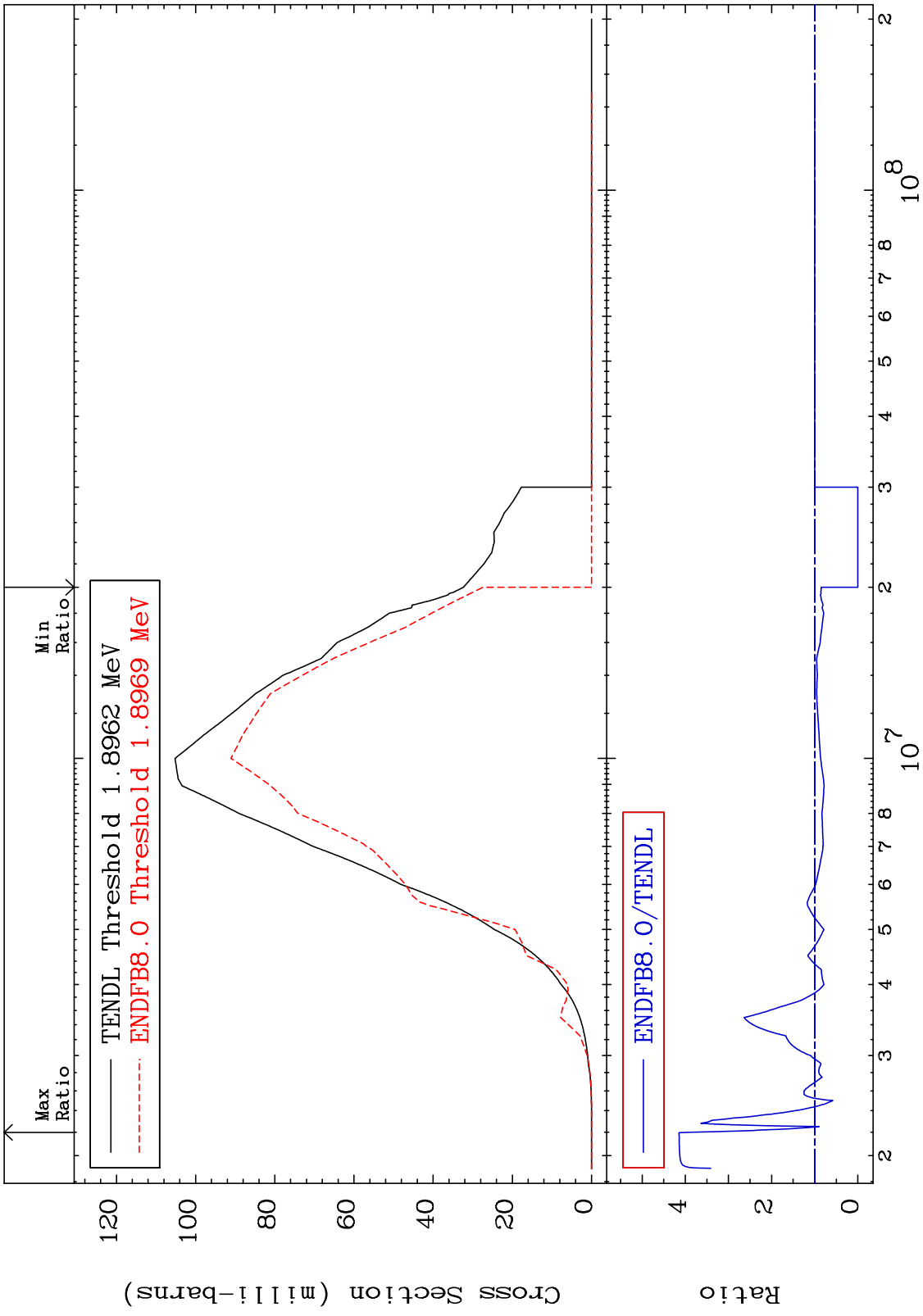
13-AI-27

Cross Section

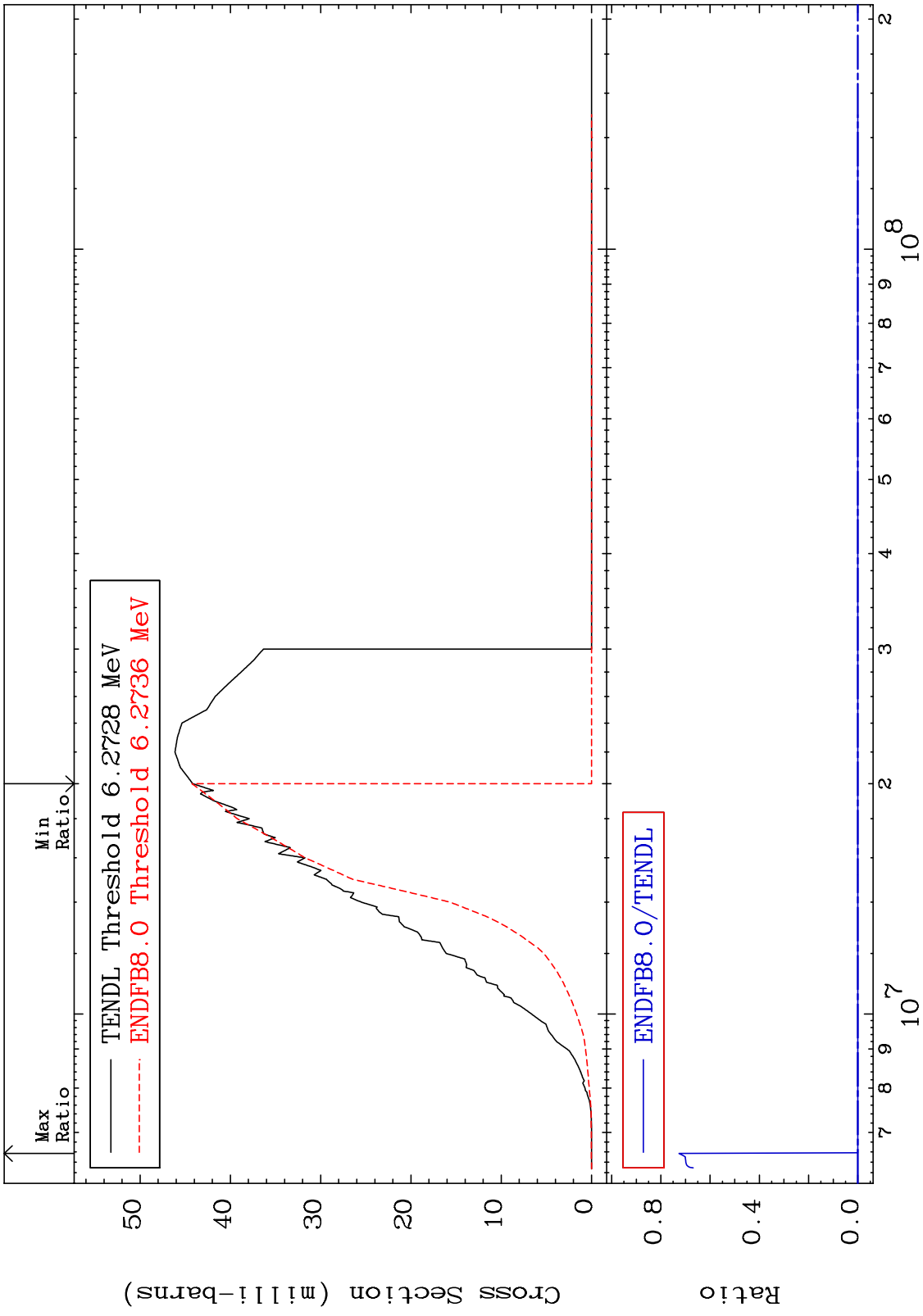
-100.0 To 147.9 %

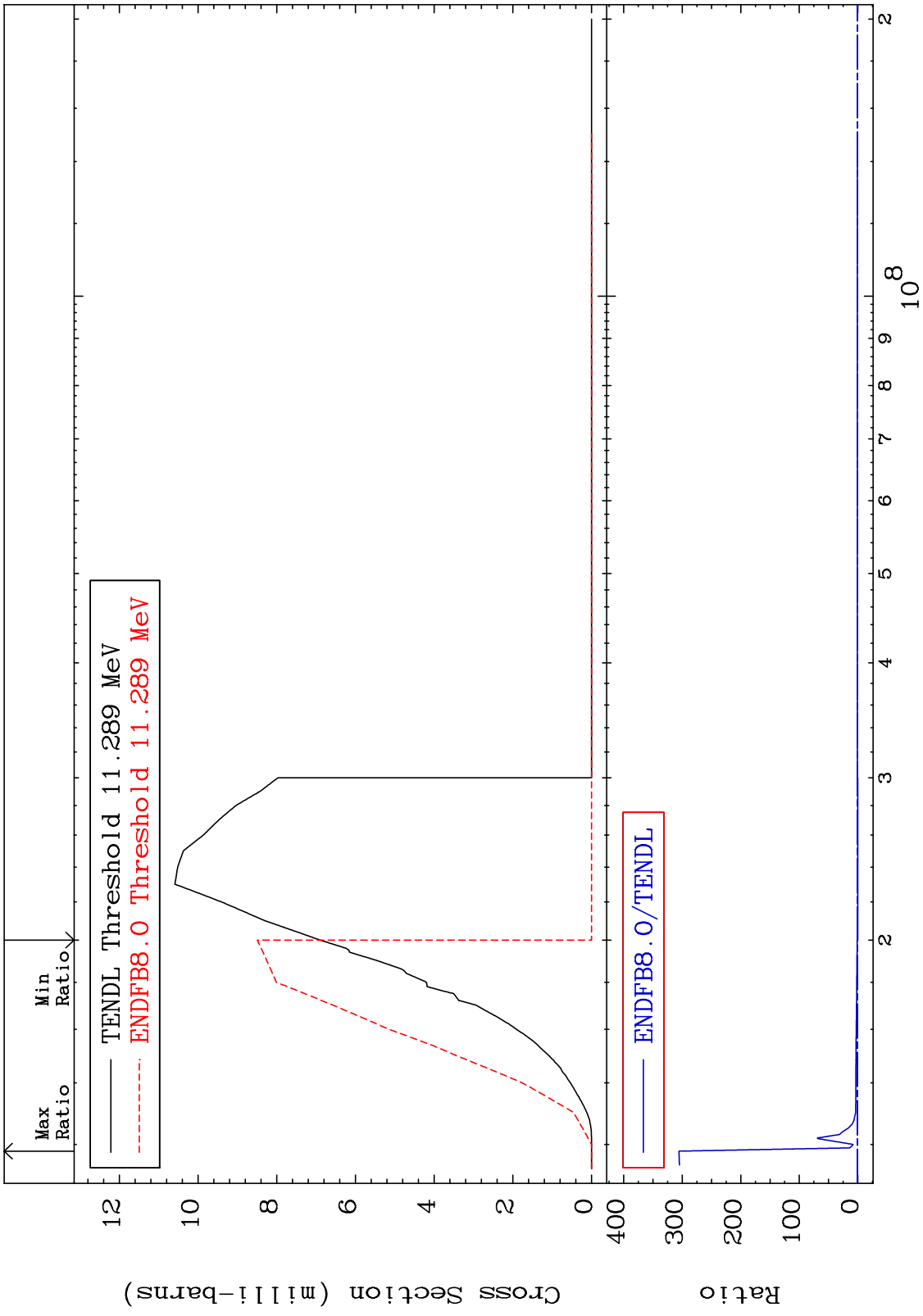


MAT 1325 (n,p) Cross Section 13-Al-27 -100.0 To 314.6 %



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





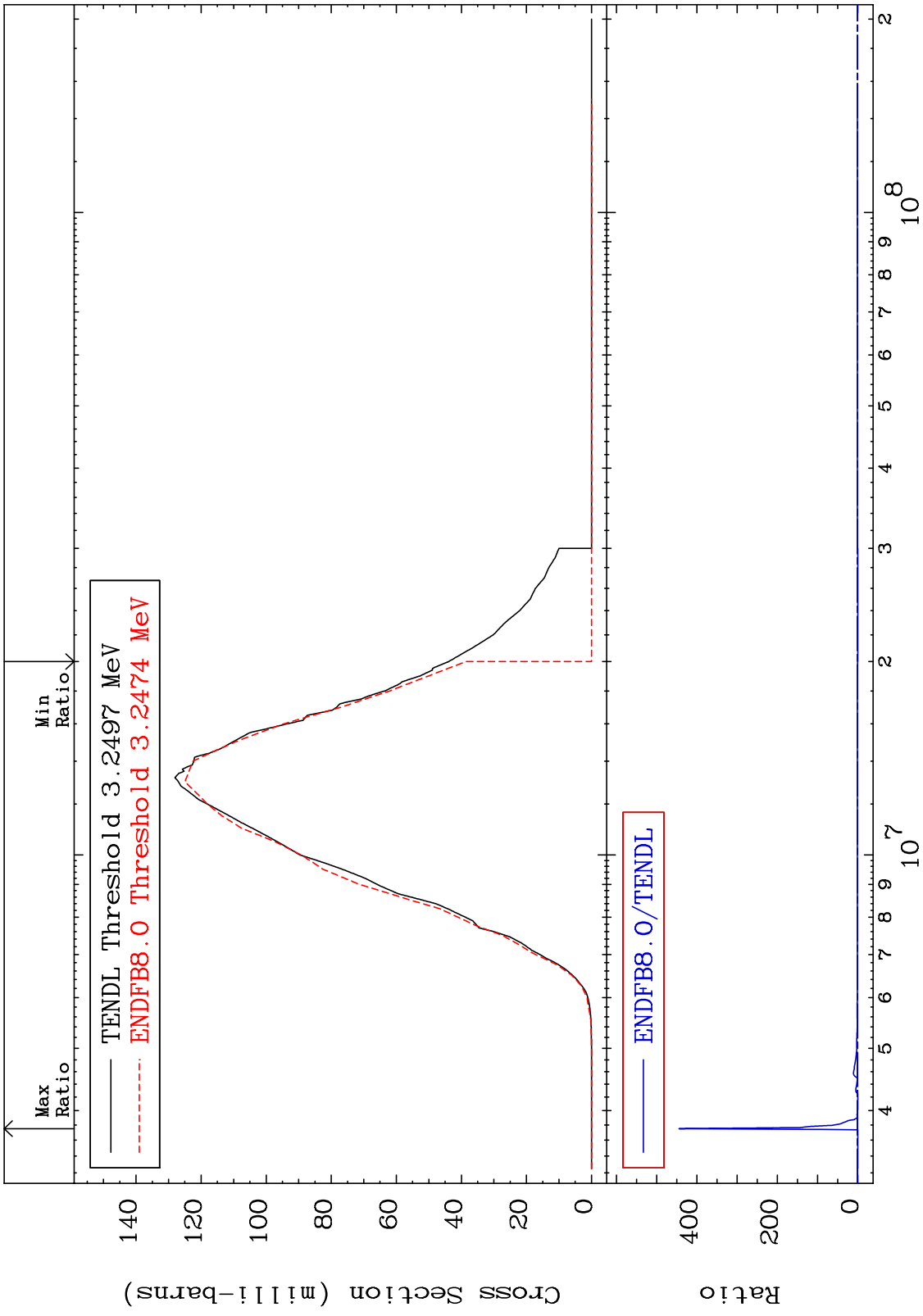
MAT 1325

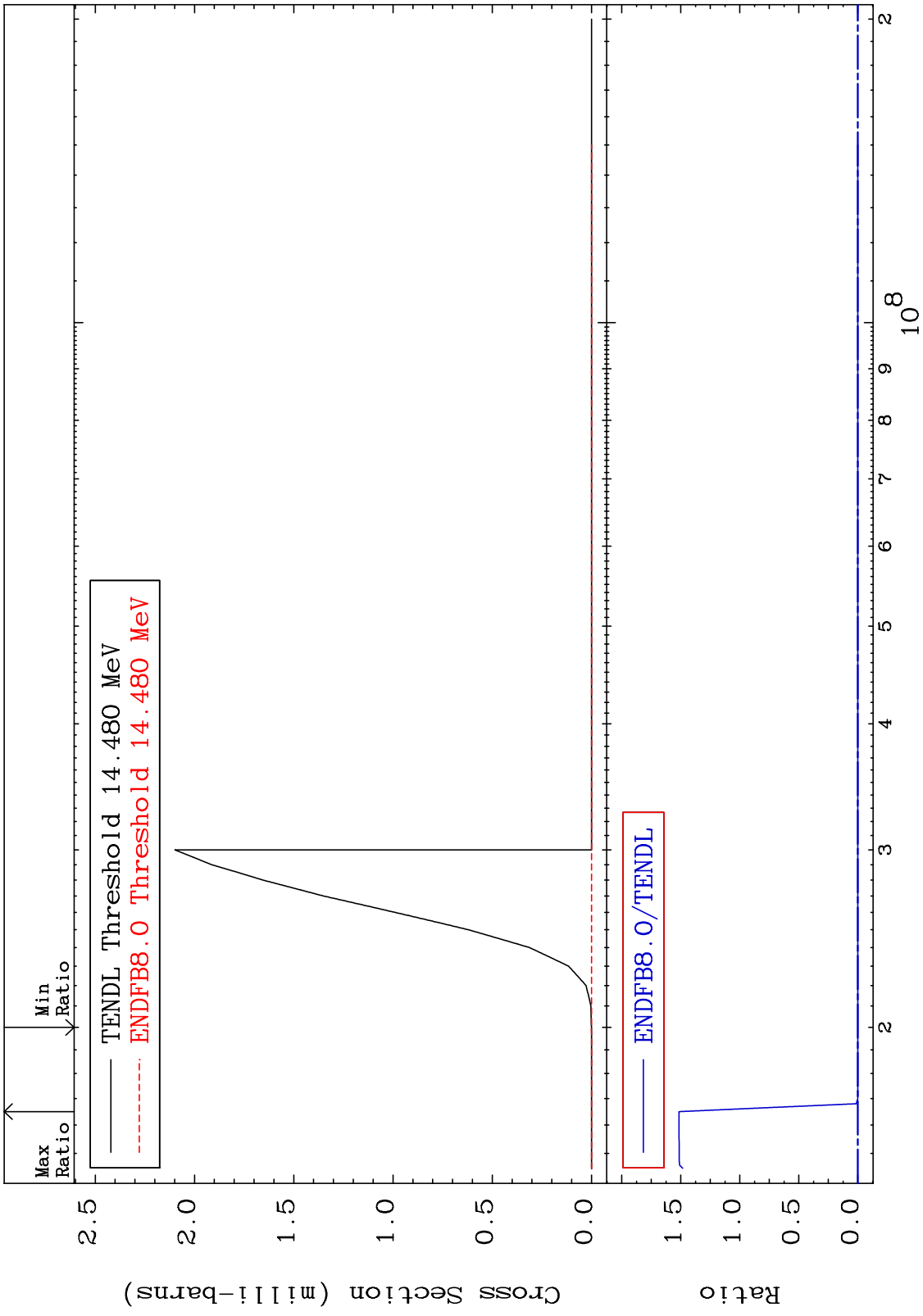
(n, α)

13-AI-27

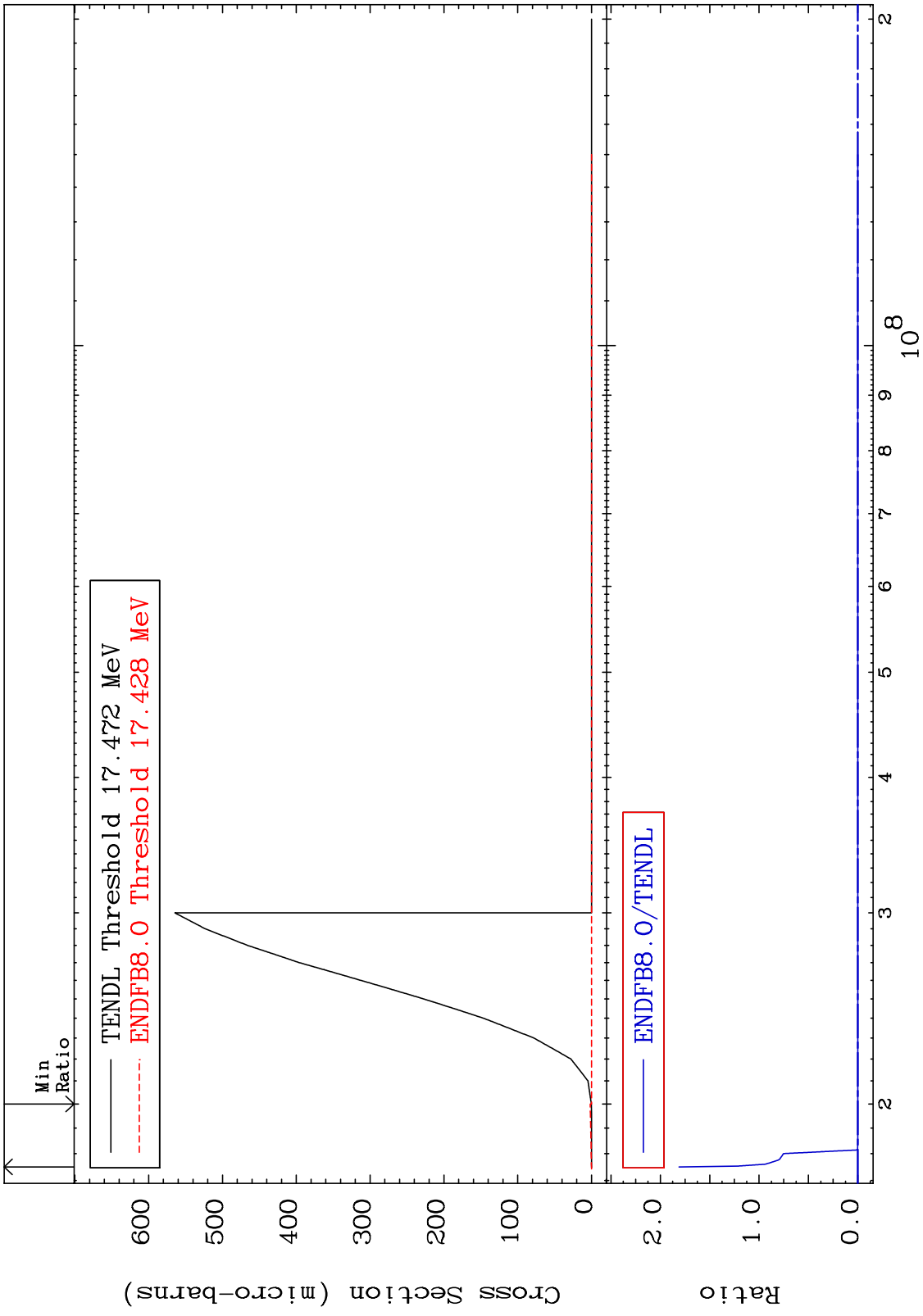
Cross Section

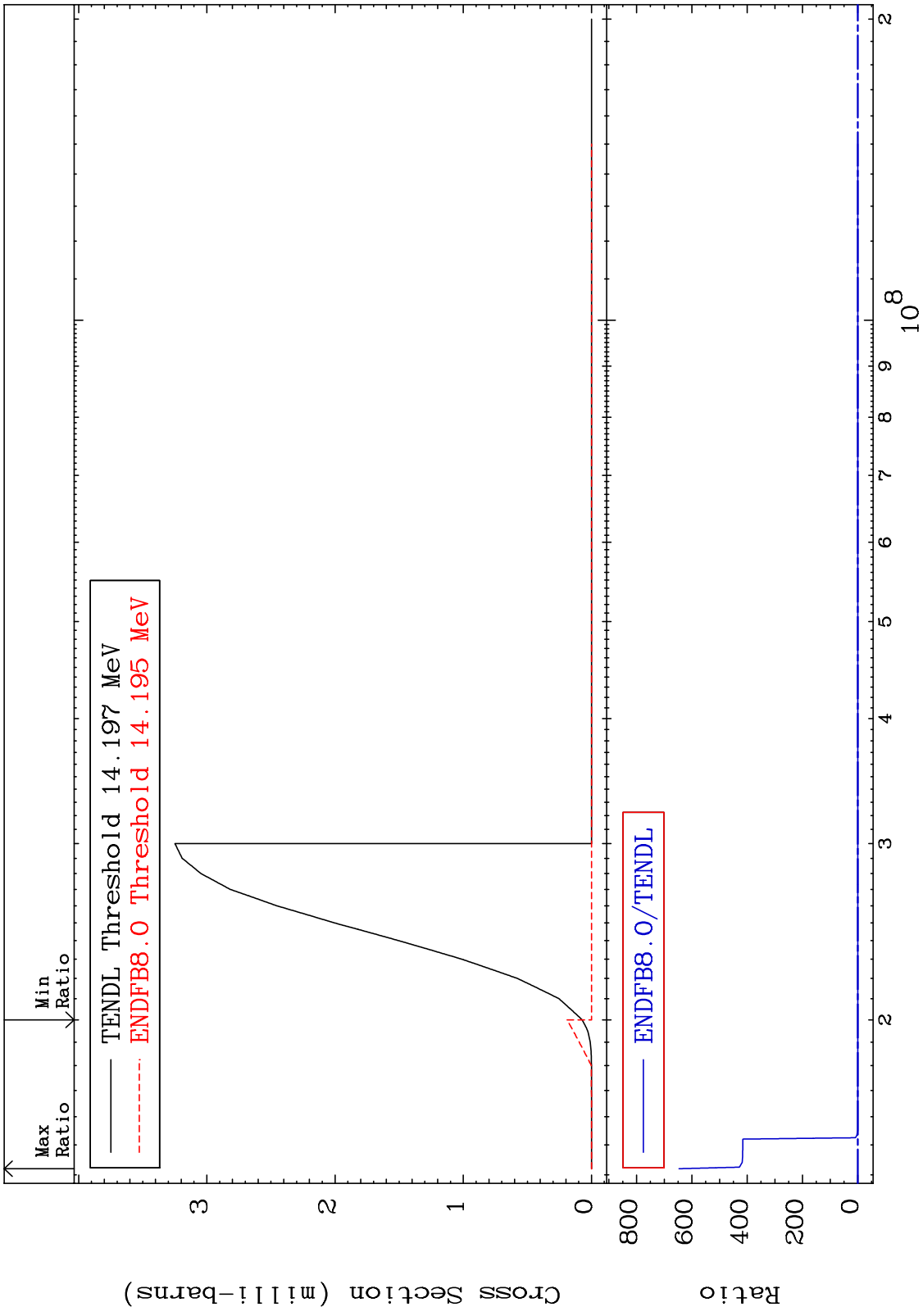
-100.0 To 9999. %

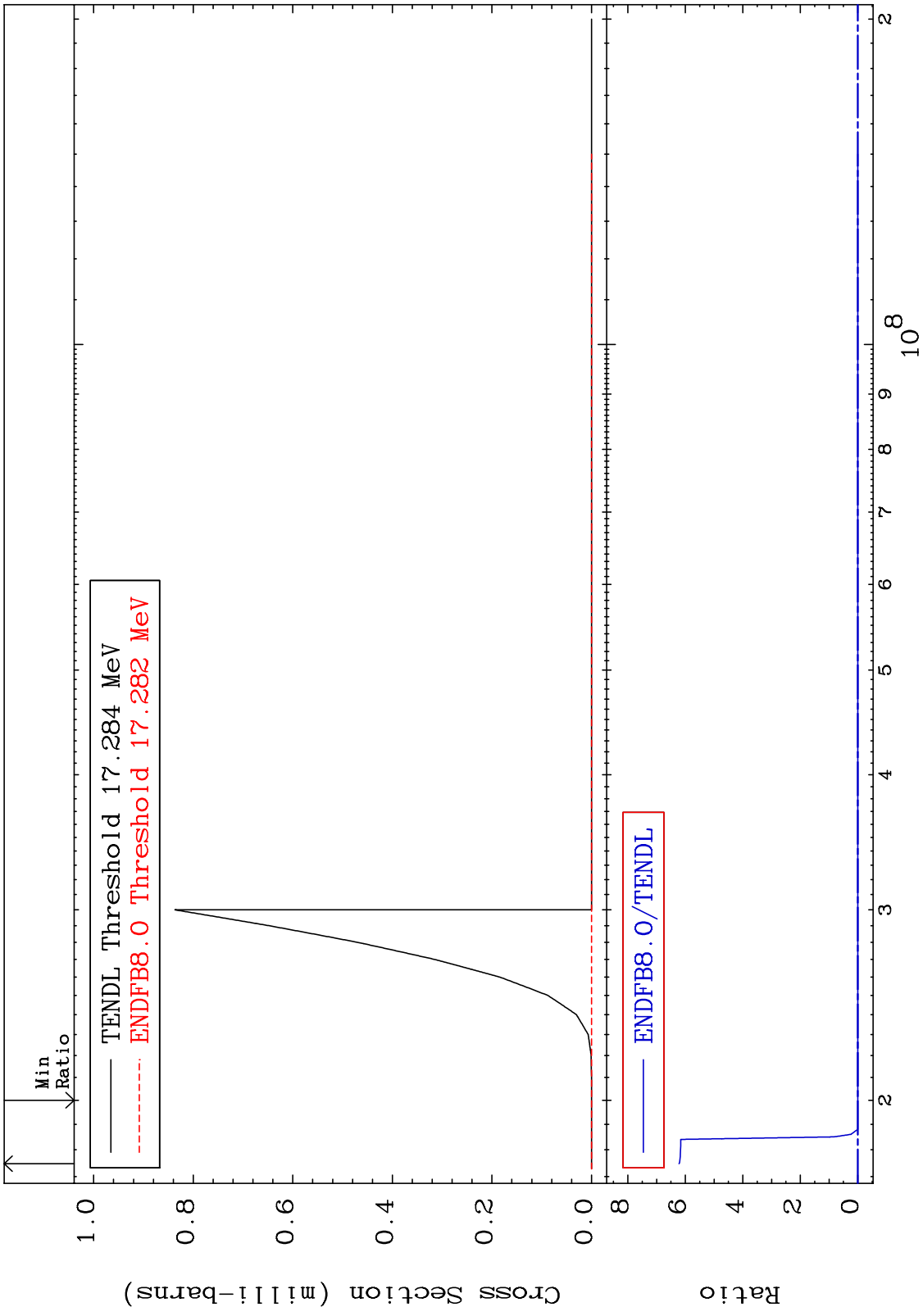


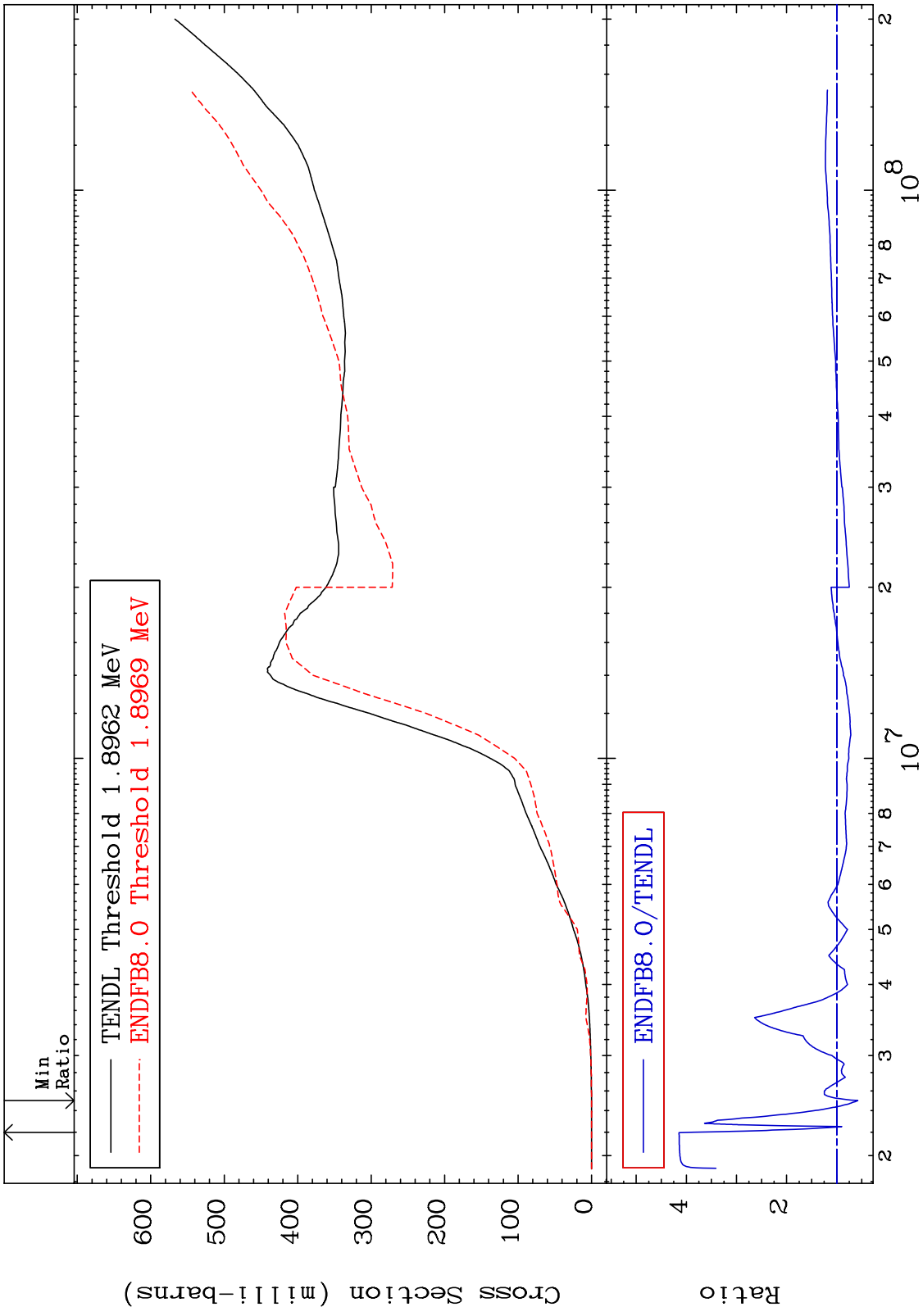


MAT 1325 (n,2p) Cross Section 13-AI-27
-100.0 To 9999. %





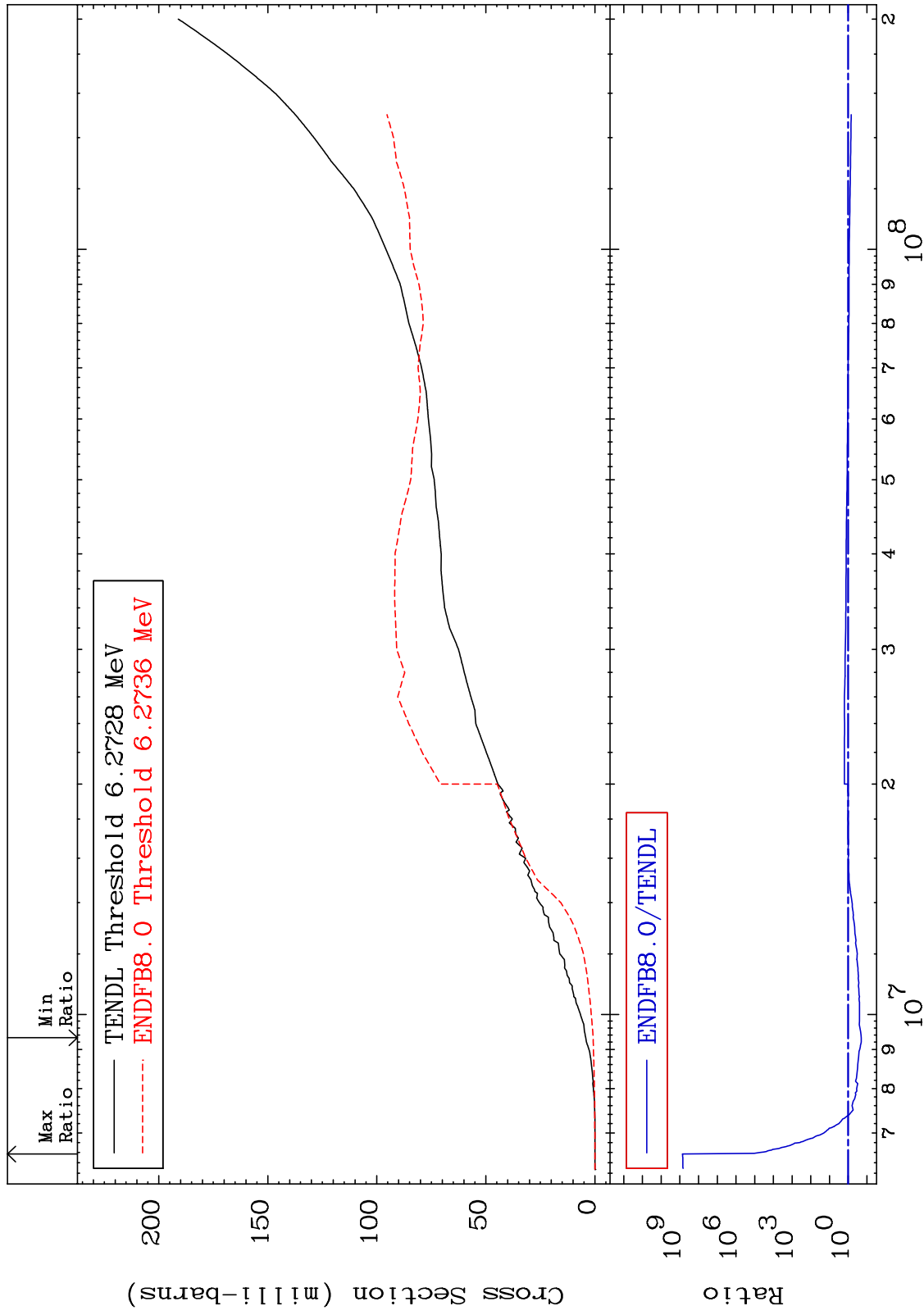




MAT 1325

Deuterium Production
Cross Section

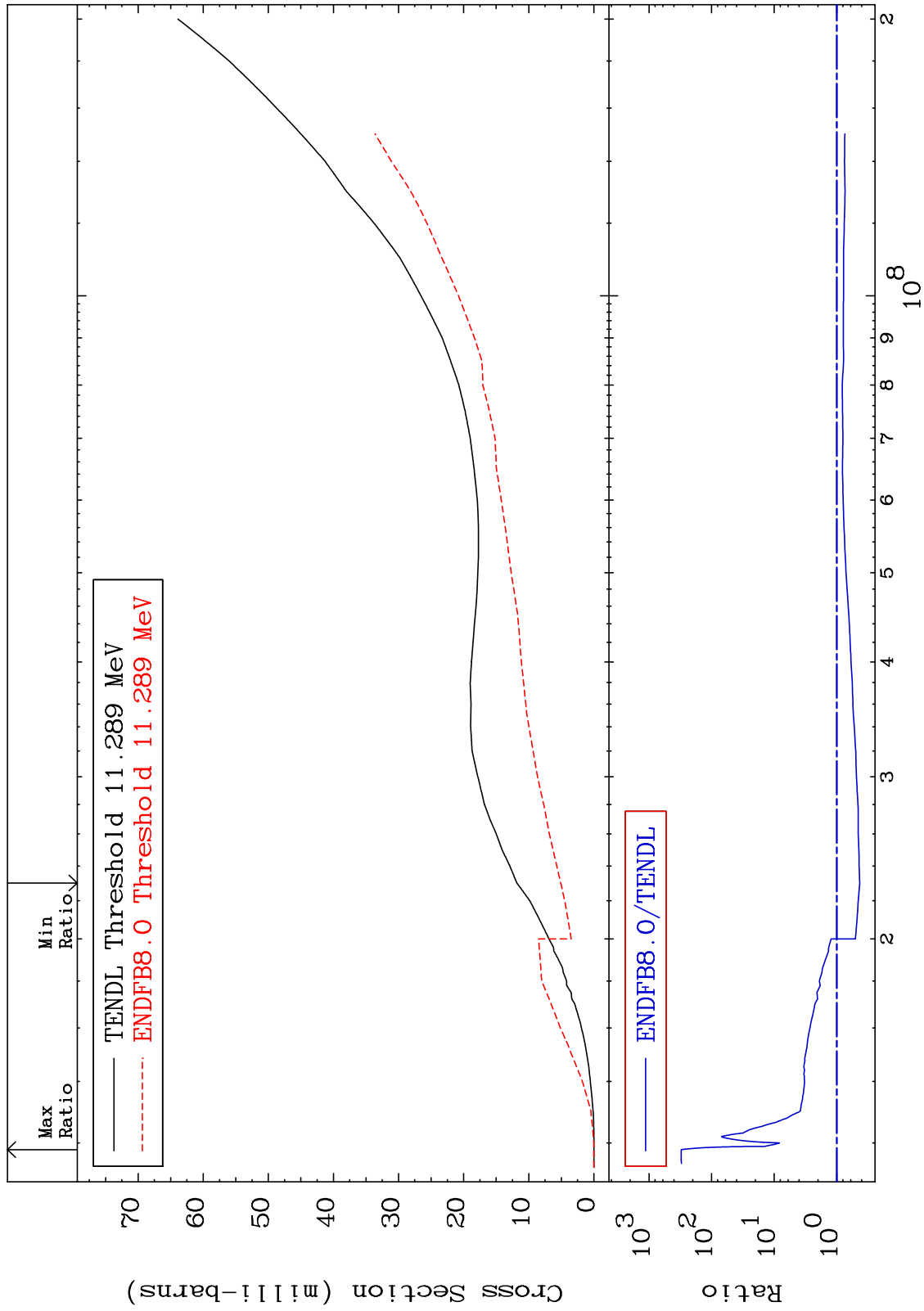
13-AI-27
-80.03 To 9999. %

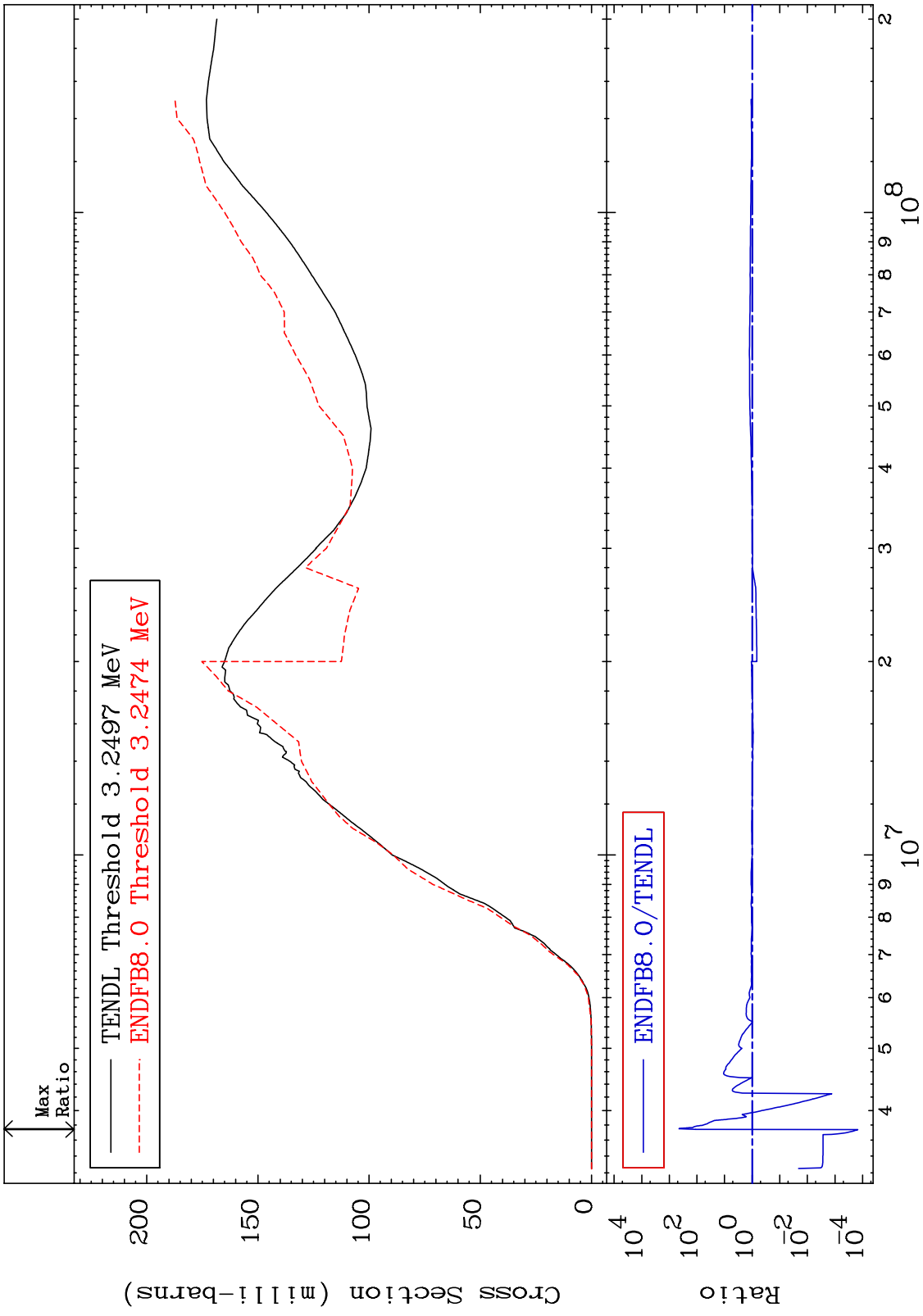


MAT 1325

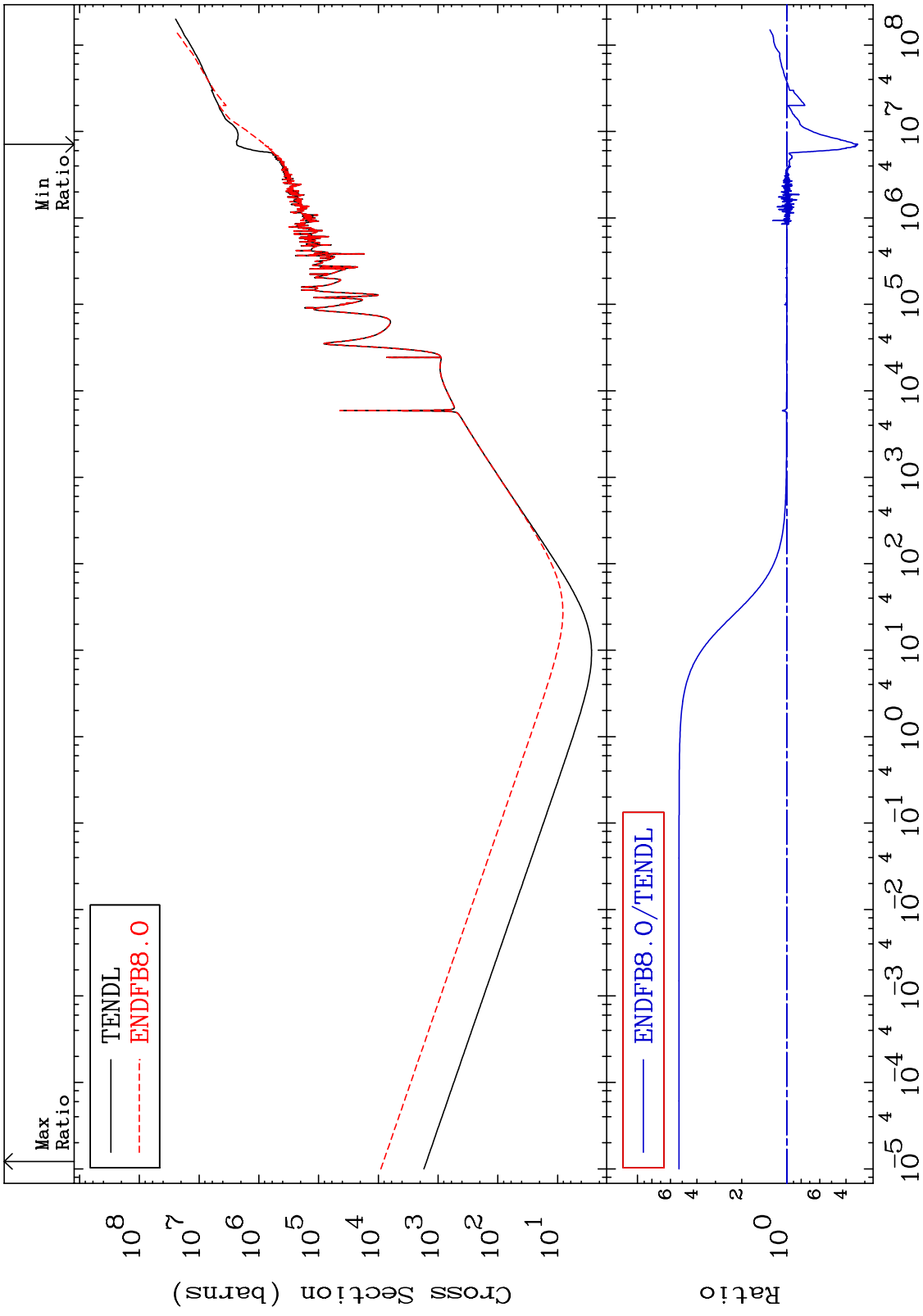
Tritium Production
Cross Section

13-AI-27
-56.96 To 9999. %





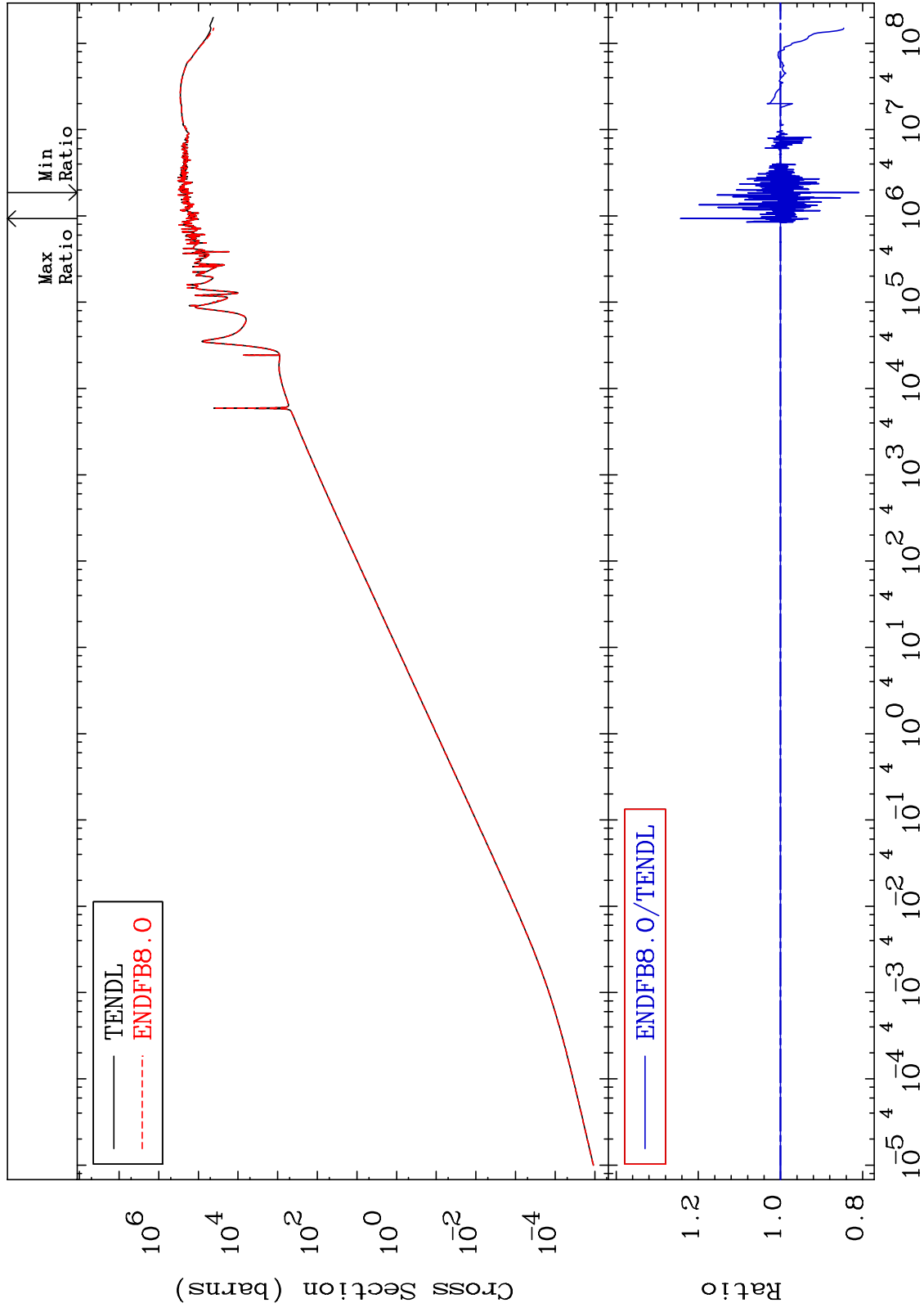
MAT 1325 Kerma total (eV-barns) 13-AI-27
 Cross Section -66.65 To 426.3 %



MAT 1325

Kerma elastic
Cross Section

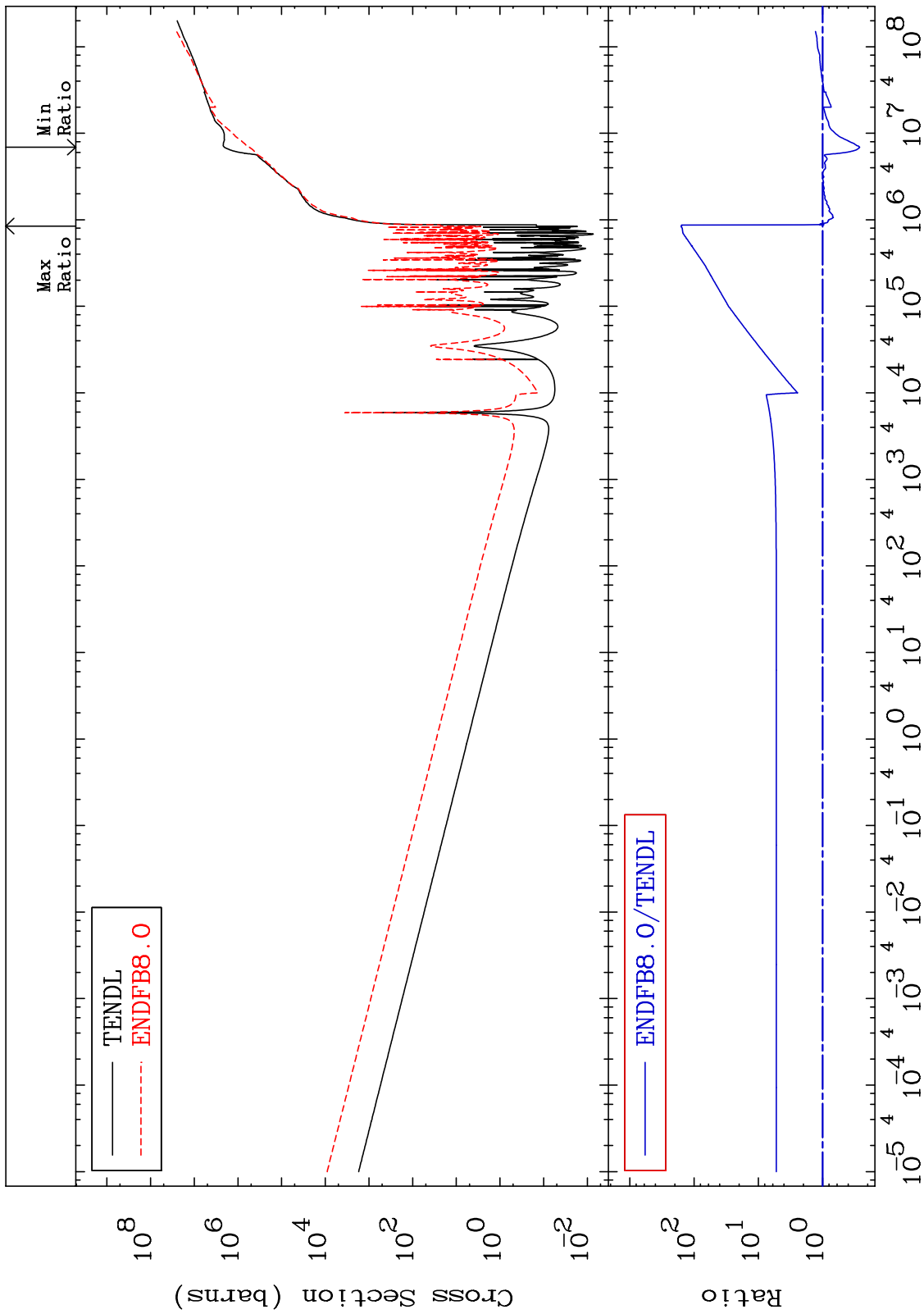
13-AI-27
-19.11 To 24.31 %



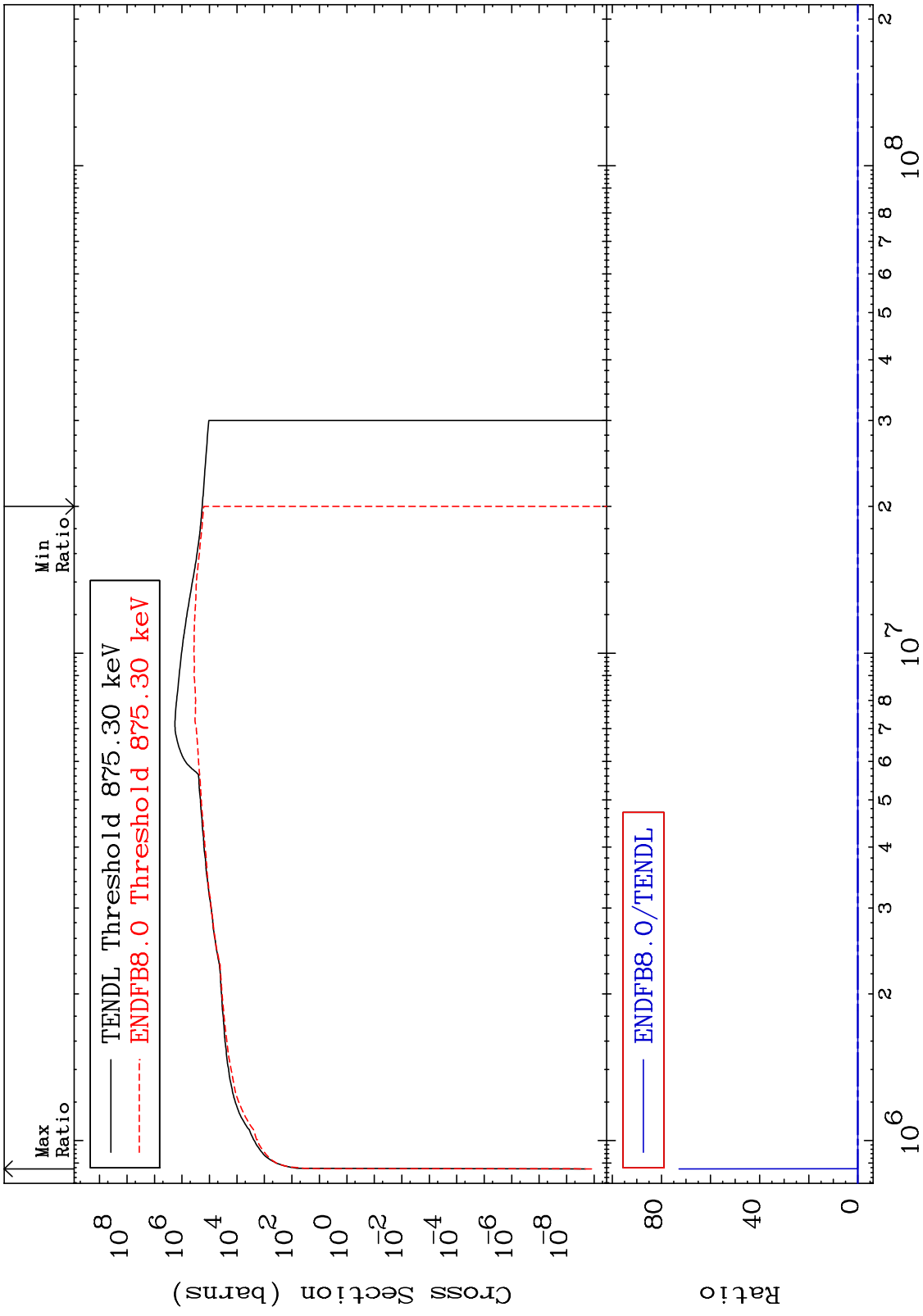
MAT 1325

Kerma non-elastic (all but mt2)
Cross Section

13-AI-27
-73.34 To 9999. %



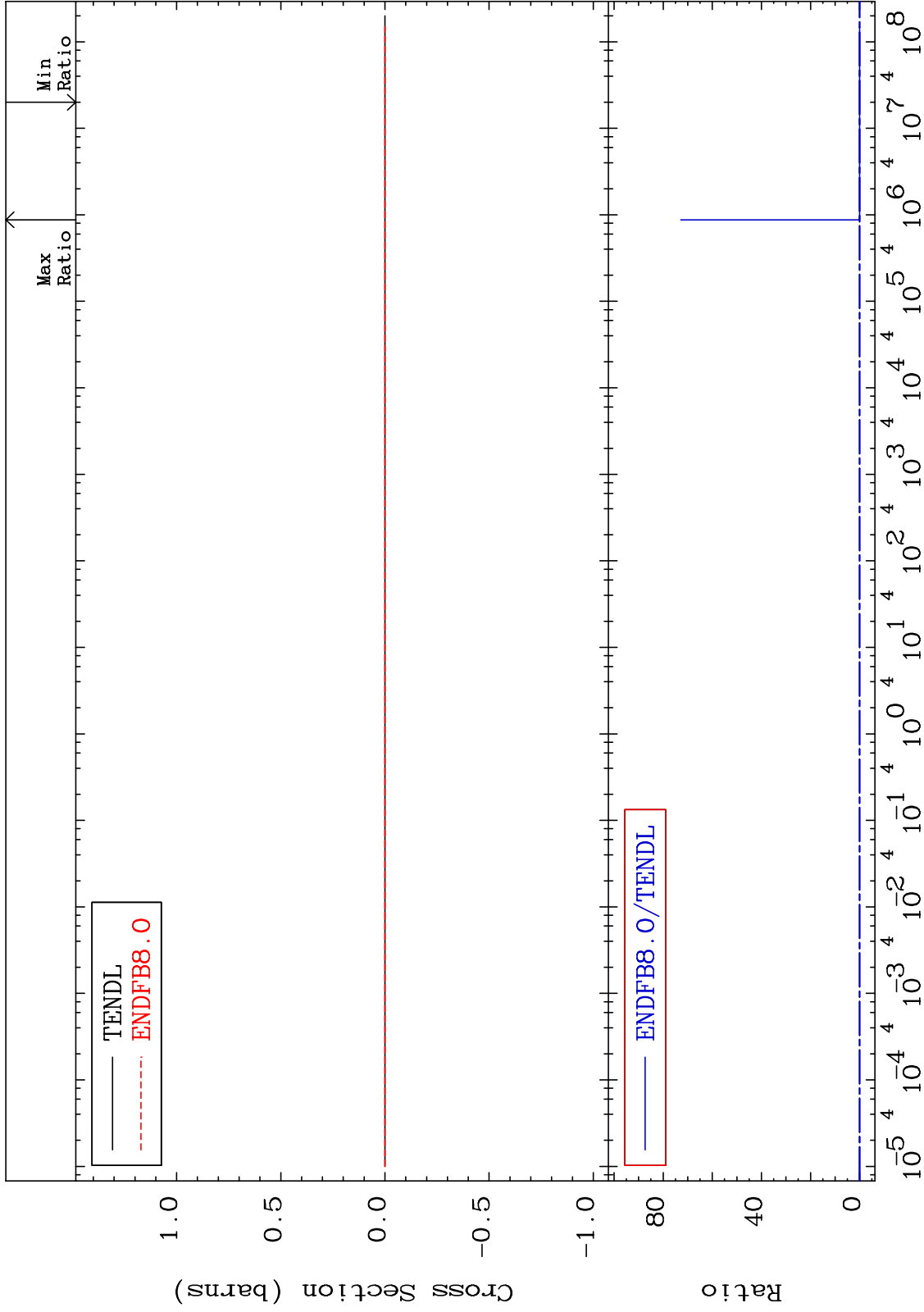
MAT 1325 Kerma inelastic (mt51-91) 13-AI-27
 -100.0 To 9999. %



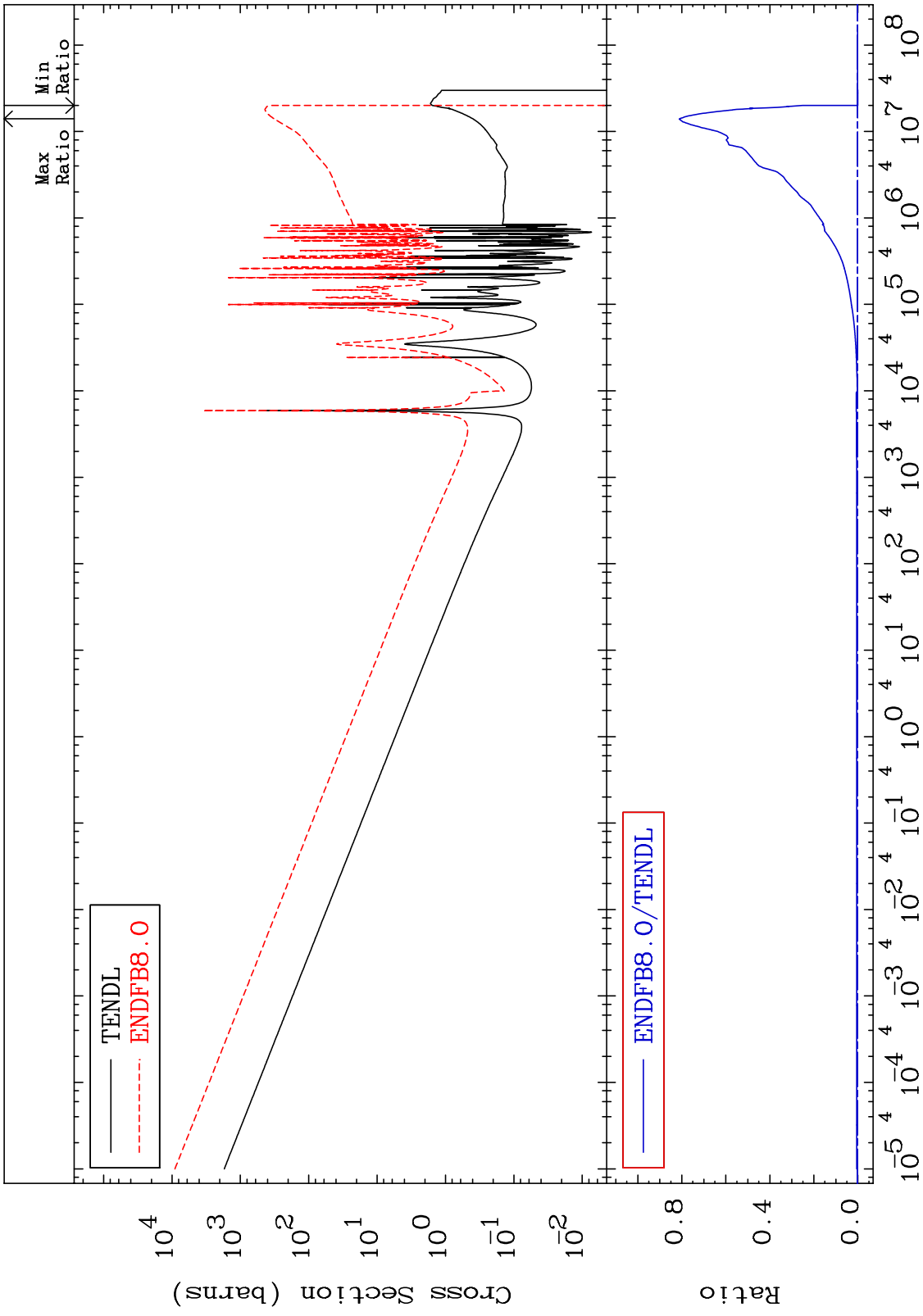
MAT 1325

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

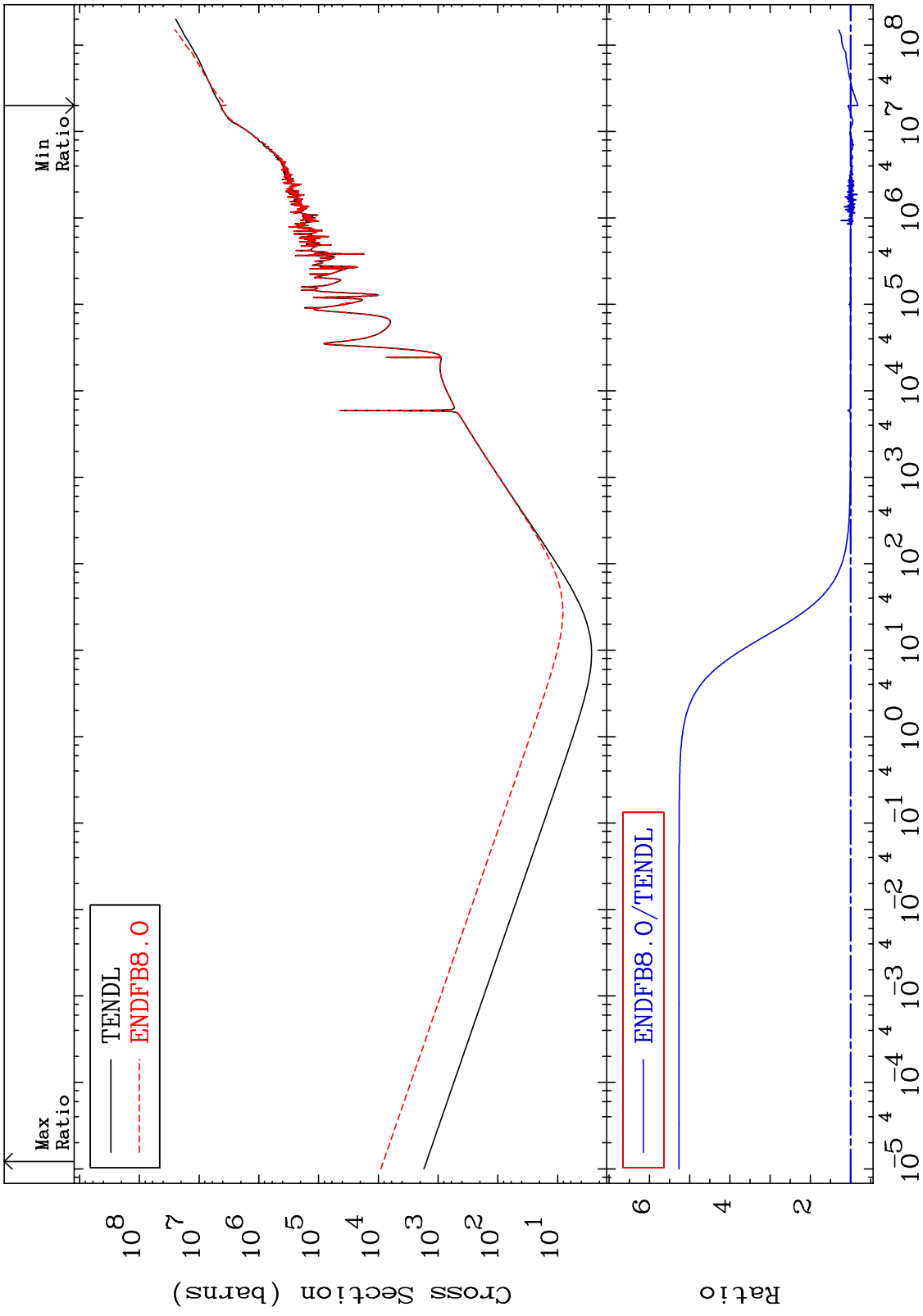
13-AI-27
-100.0 To 9999. %



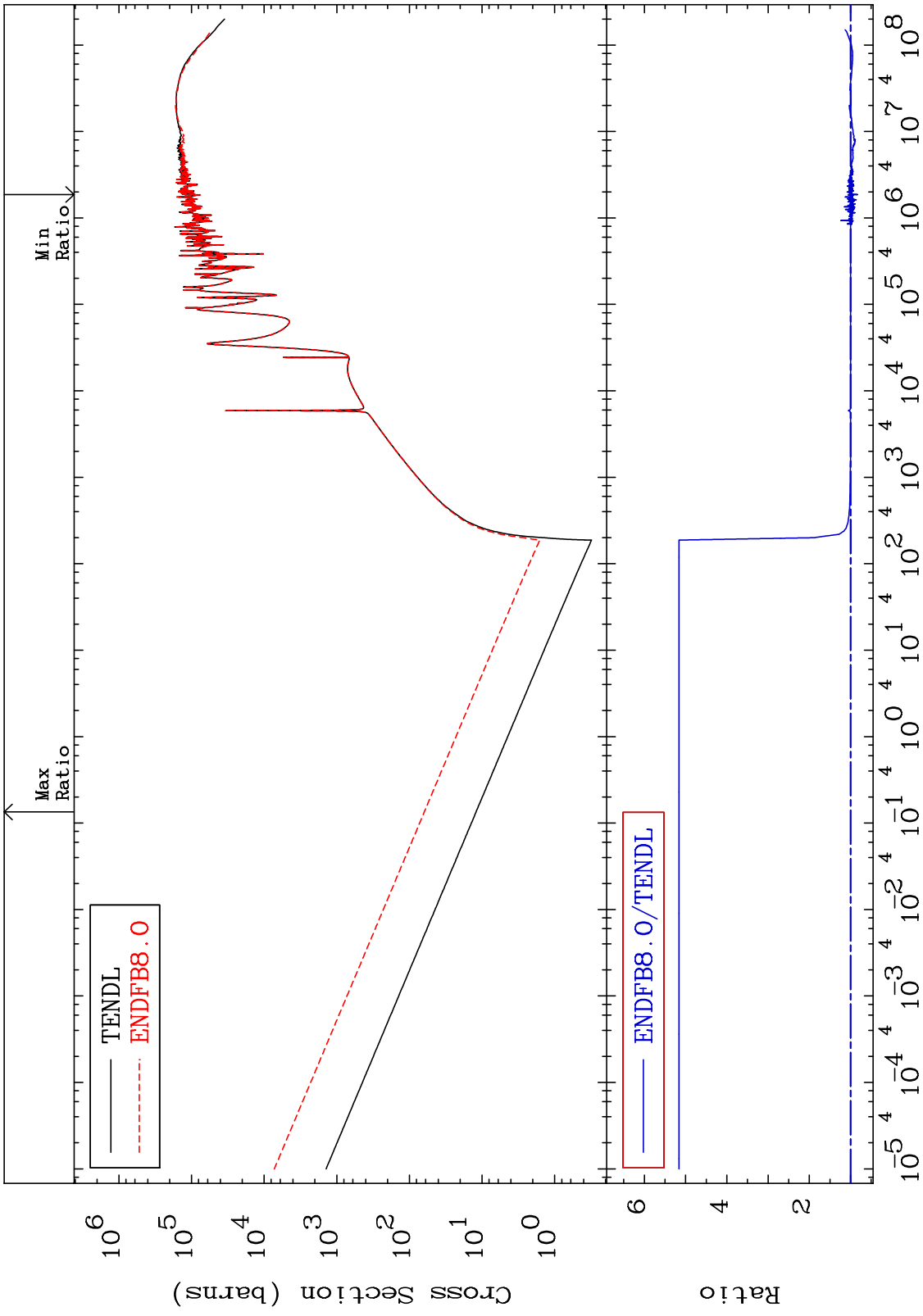
MAT 1325 Kerma capture (mt102) 13-AI-27
 Cross Section -100.0 To 9999. %



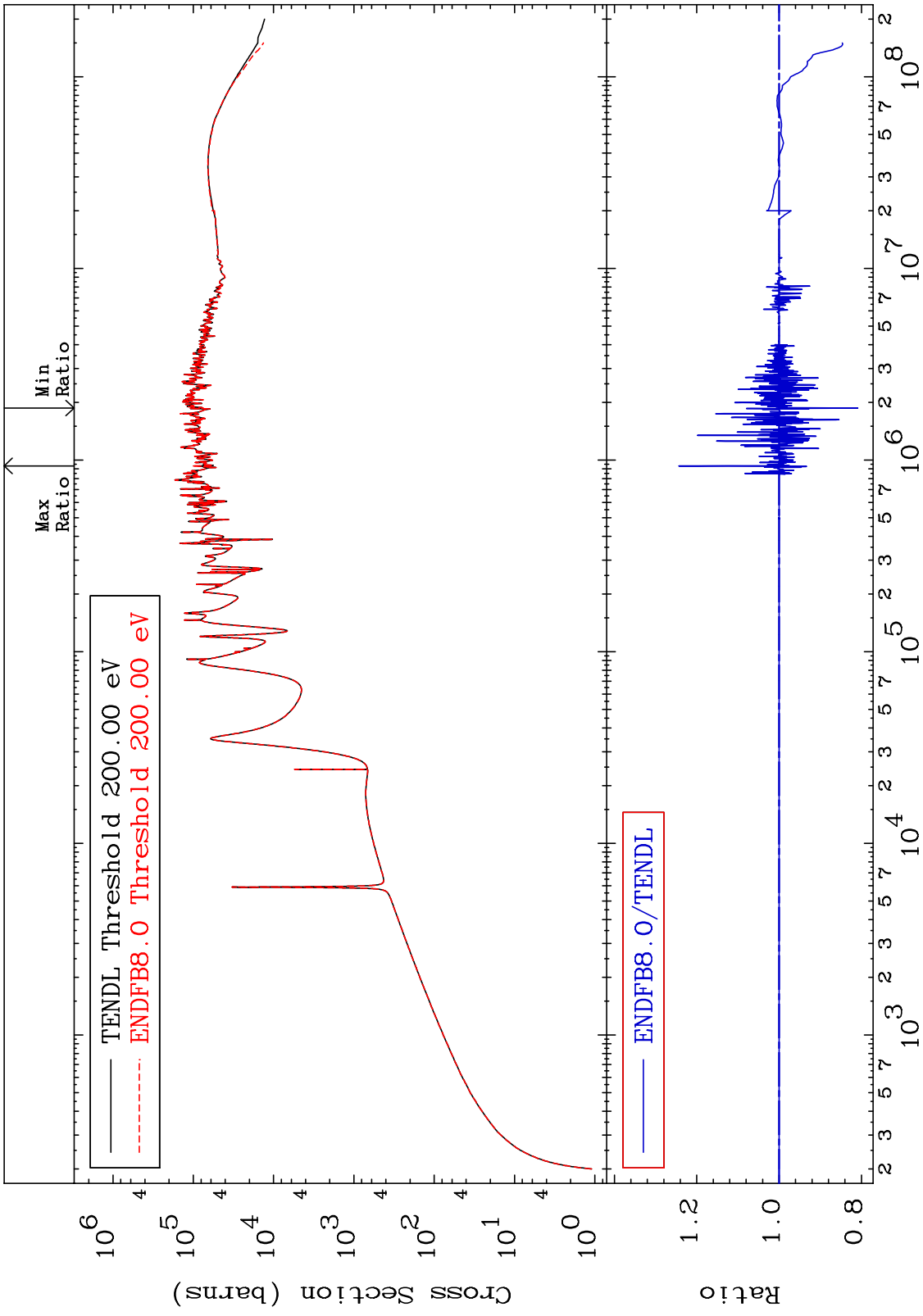
MAT 1325 Total kinematic kerma (high limit) Cross Section
13-AI-27
-18.04 To 426.3 %



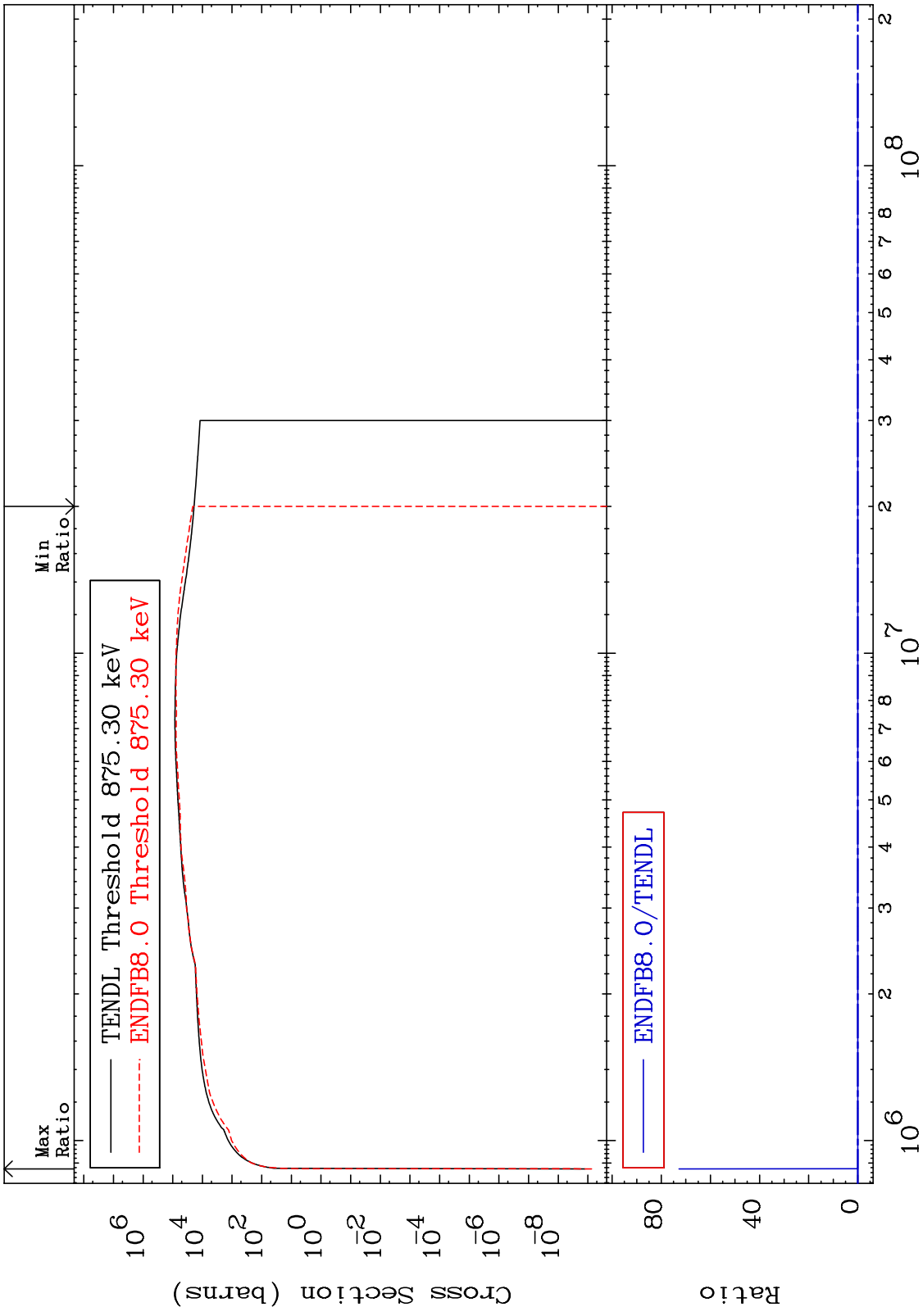
MAT 1325 13-AI-27
 Dpa total (eV-barns) -17.52 To 416.0 %
 Cross Section



MAT 1325 Dpa elastic (mt2) 13-AI-27
 Cross Section -19.13 To 24.31 %



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



65 Incident Energy (eV) 13-AI-27

MAT 1325 Dpa disappearance (mt102 -120) 13-AI-27
 Cross Section -100.0 To 416.0 %

