

Program Complot
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

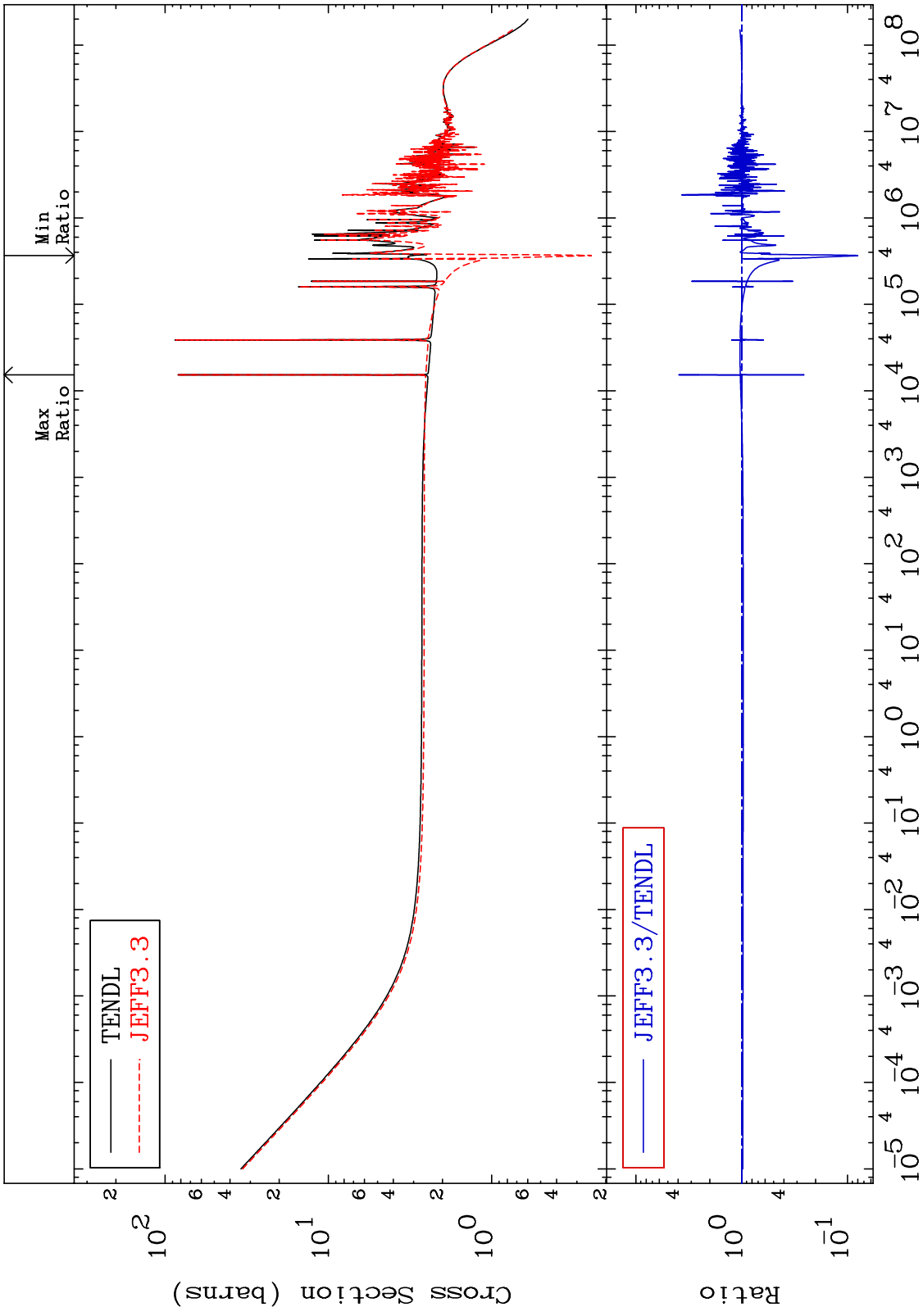
U.S.A.

Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 1428 14-Si-29 Total Cross Section -92.02 To 291.3 % 14-Si-29

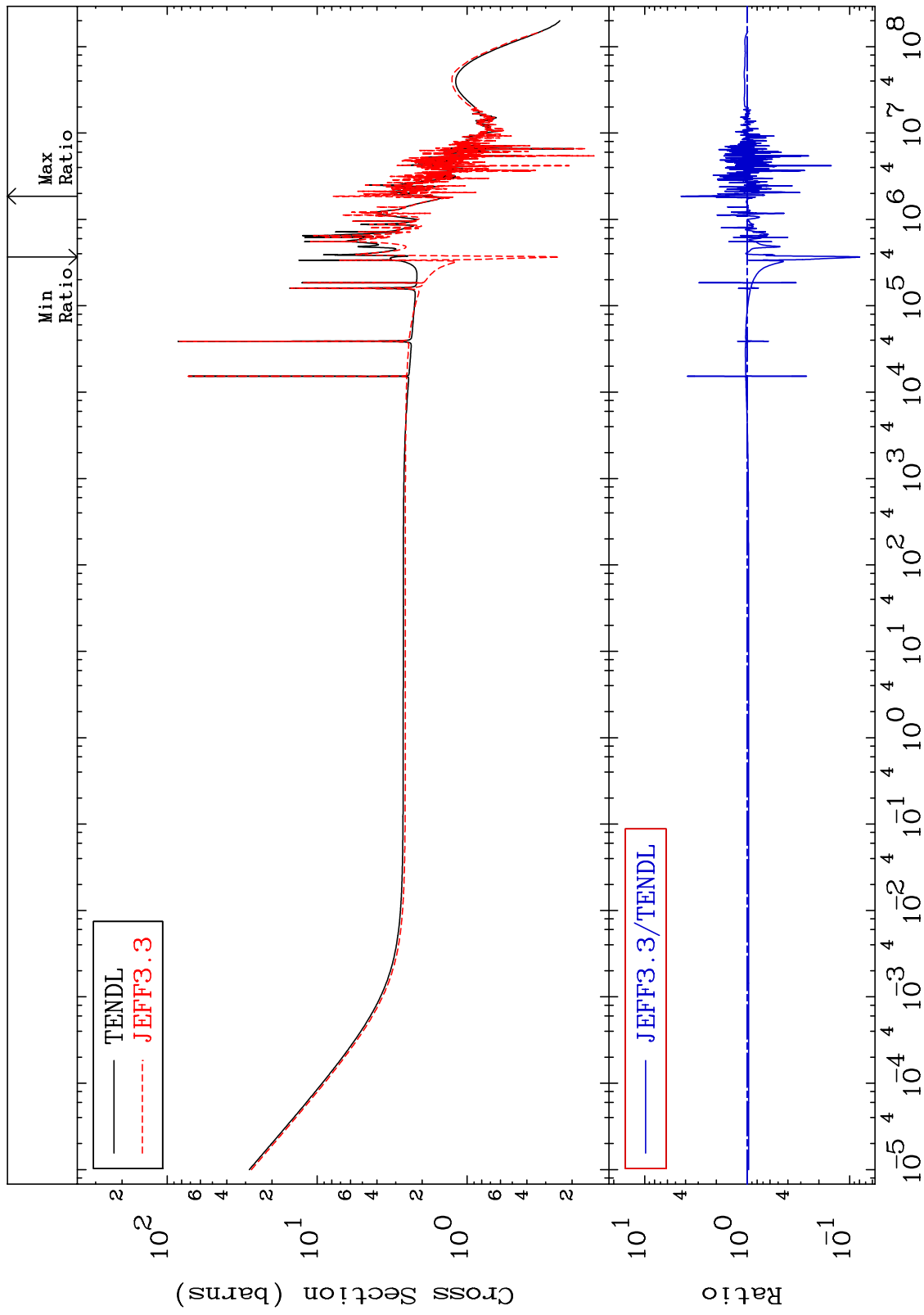


1

MAT 1428

Elastic
Cross Section

14-Si-29
-92.03 To 339.7 %

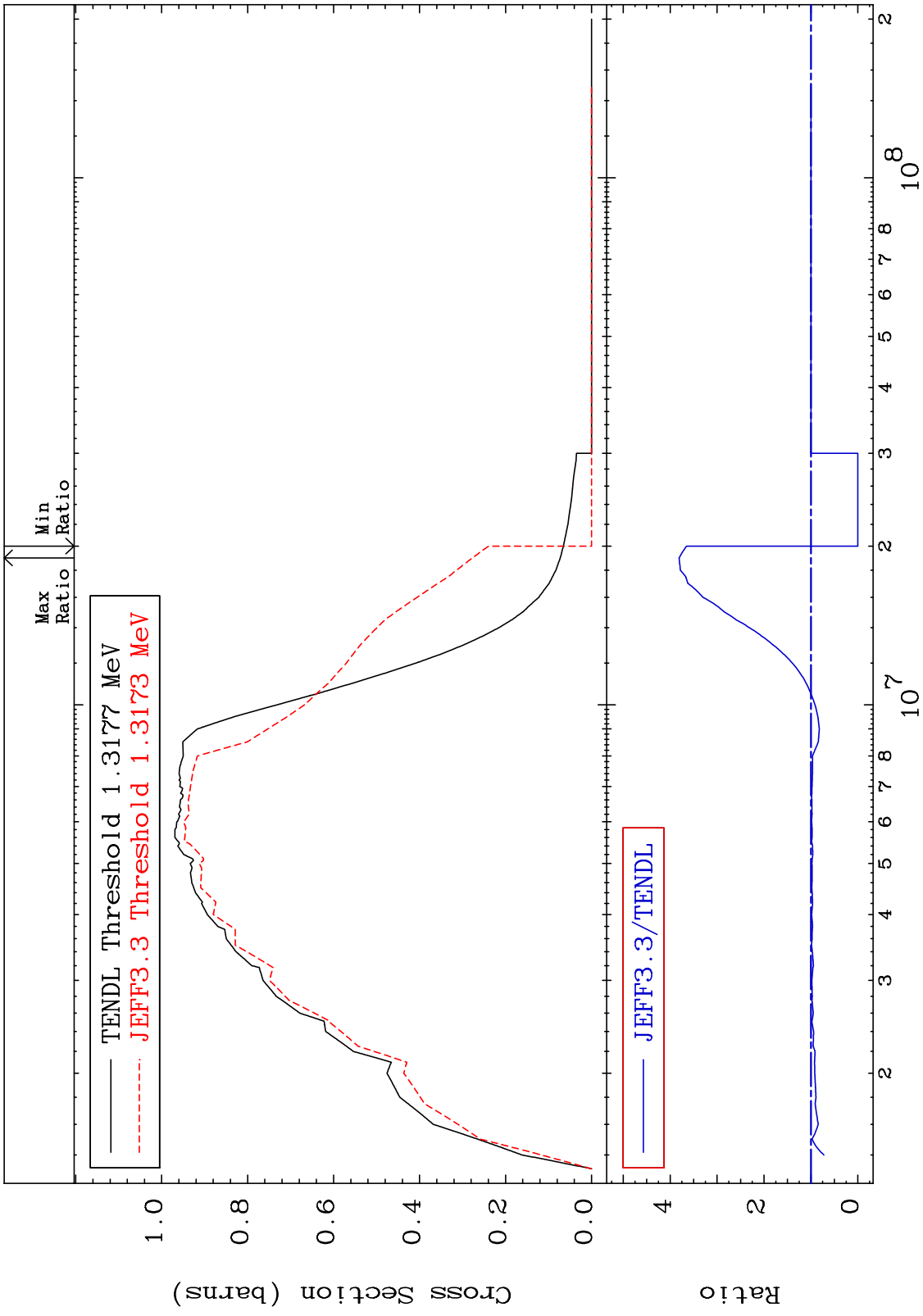


2

Incident Energy (eV)

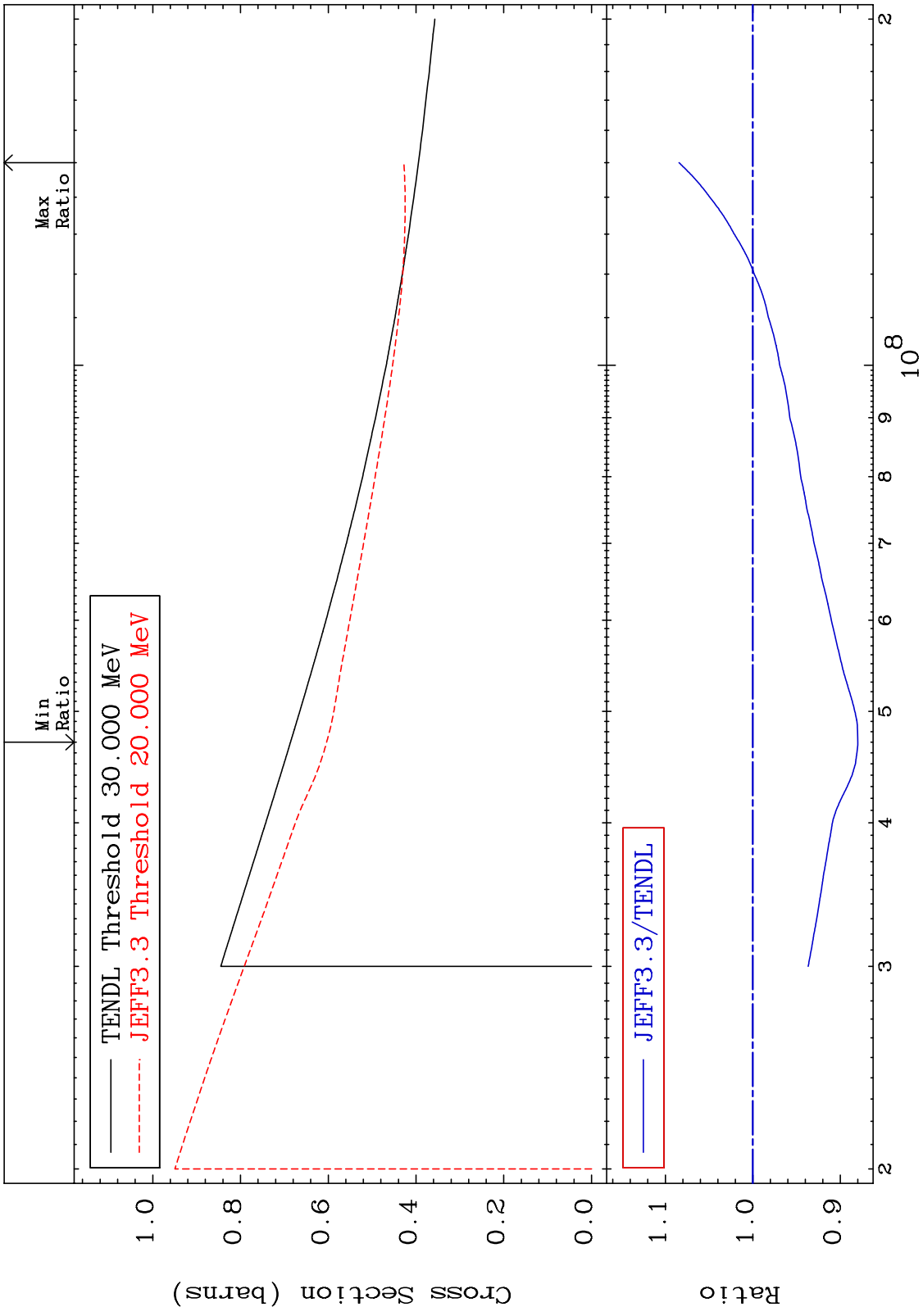
14-Si-29

MAT 1428 Inelastic Cross Section 14-Si-29 -100.0 To 281.1 %



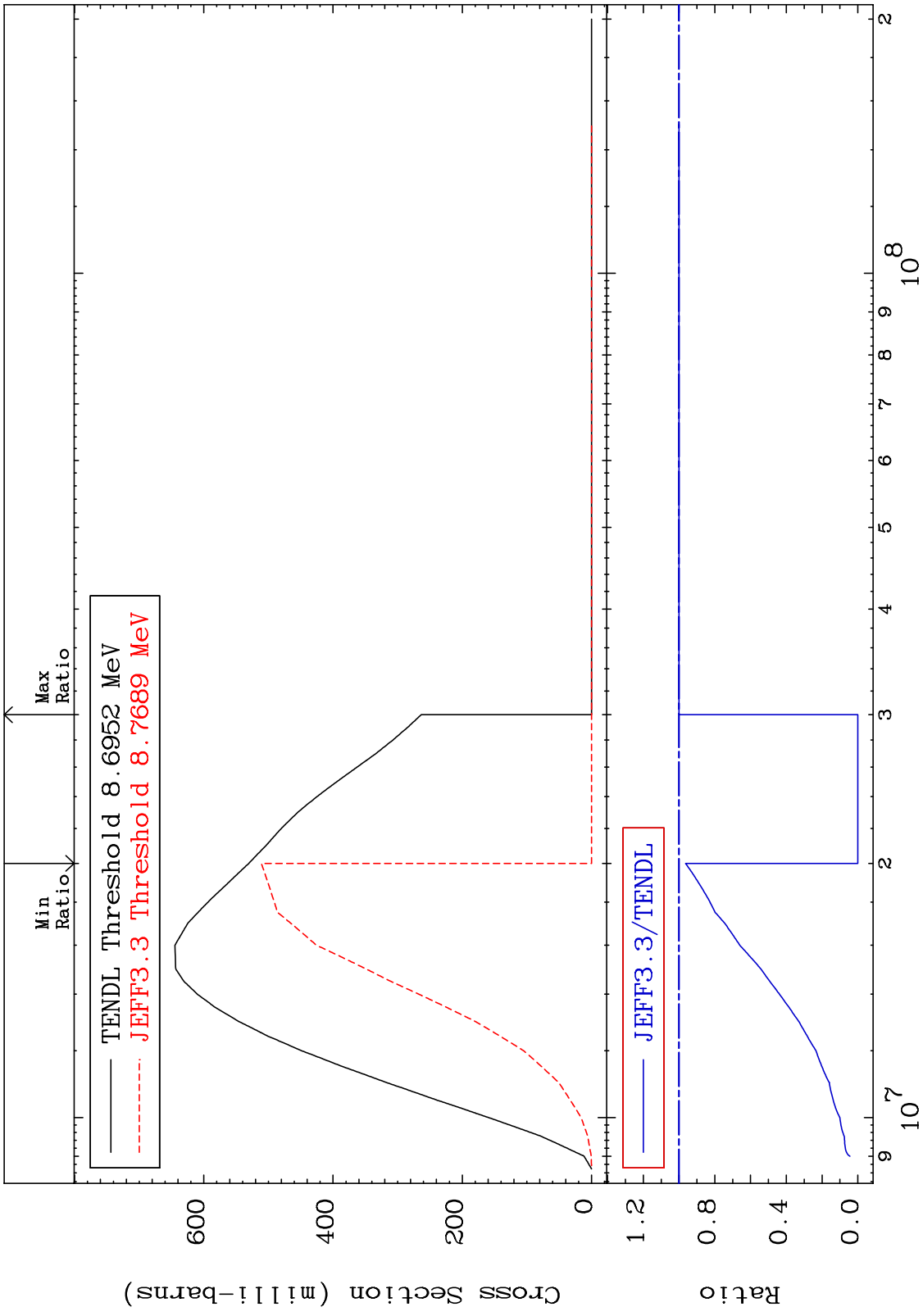
3 14-Si-29

MAT 1428 (n, remainder) Cross Section 14-Si-29 -12.00 To 8.431 %



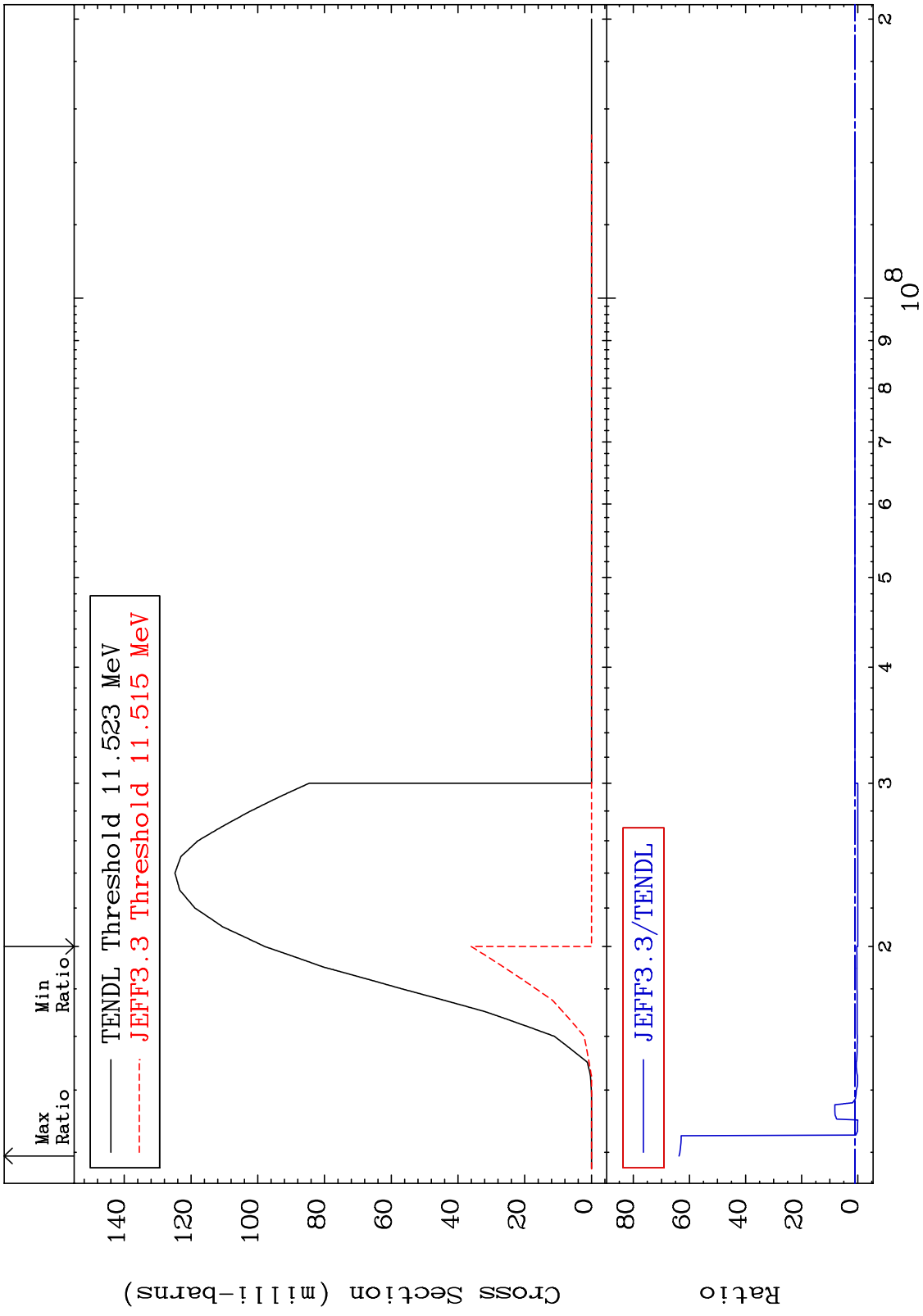
4 14-Si-29

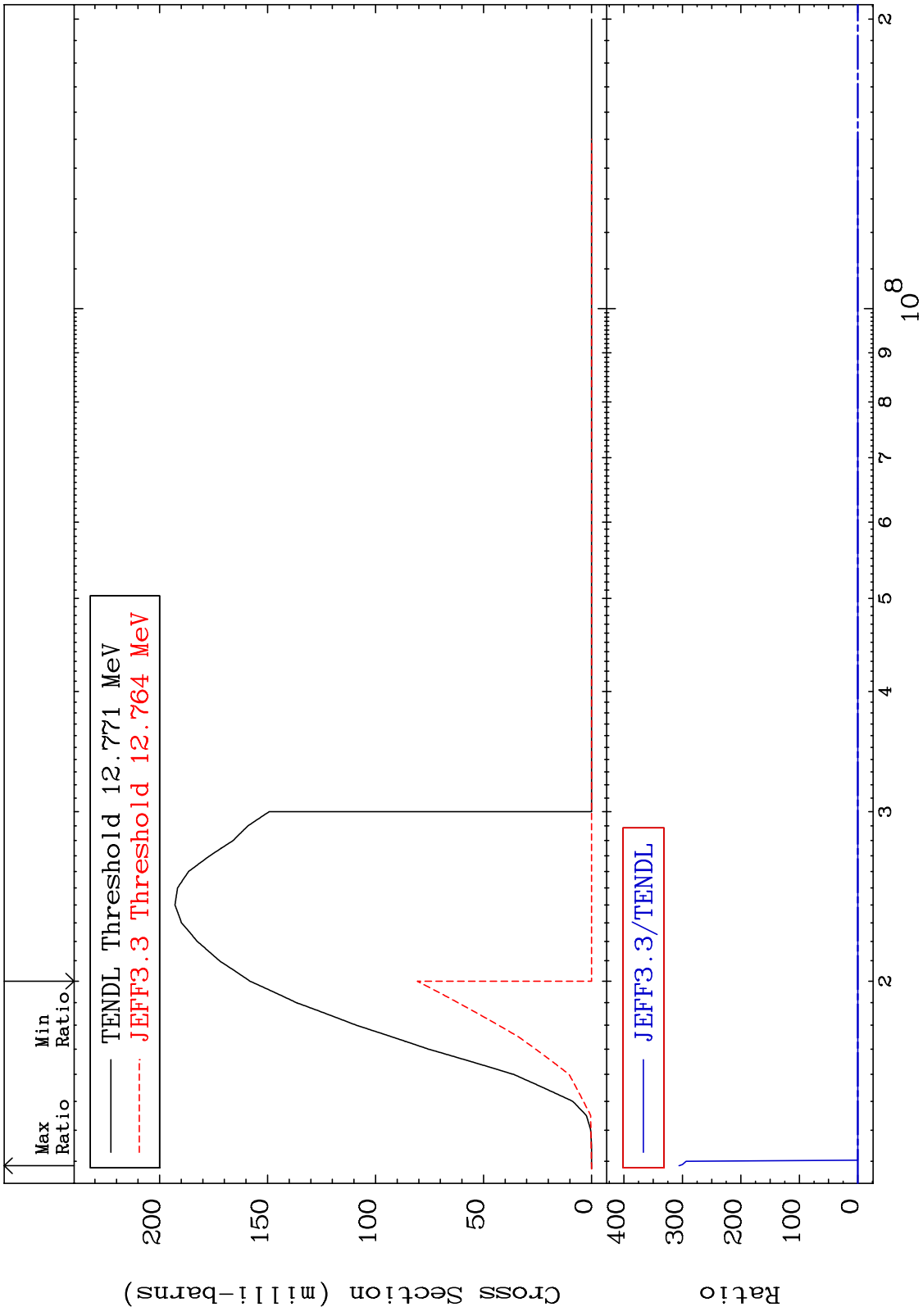
MAT 1428 $^{14}\text{Si-29}$ $(n,2n)$ Cross Section -100.0 To 0.000 %



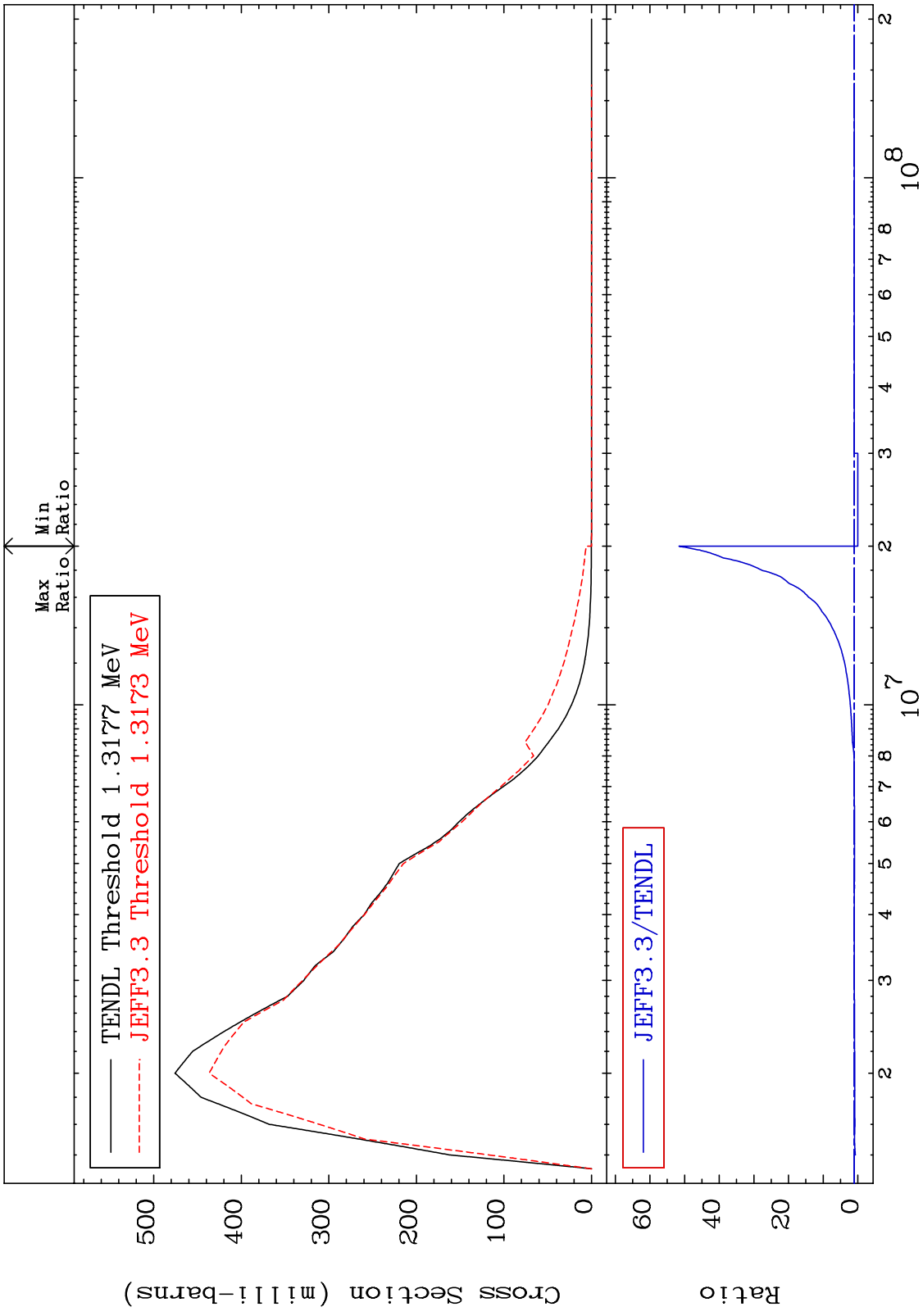
14-Si-29 Incident Energy (eV)

MAT 1428 $(n, n') \alpha$ 14-Si-29
 Cross Section -100.0 To 6271. %

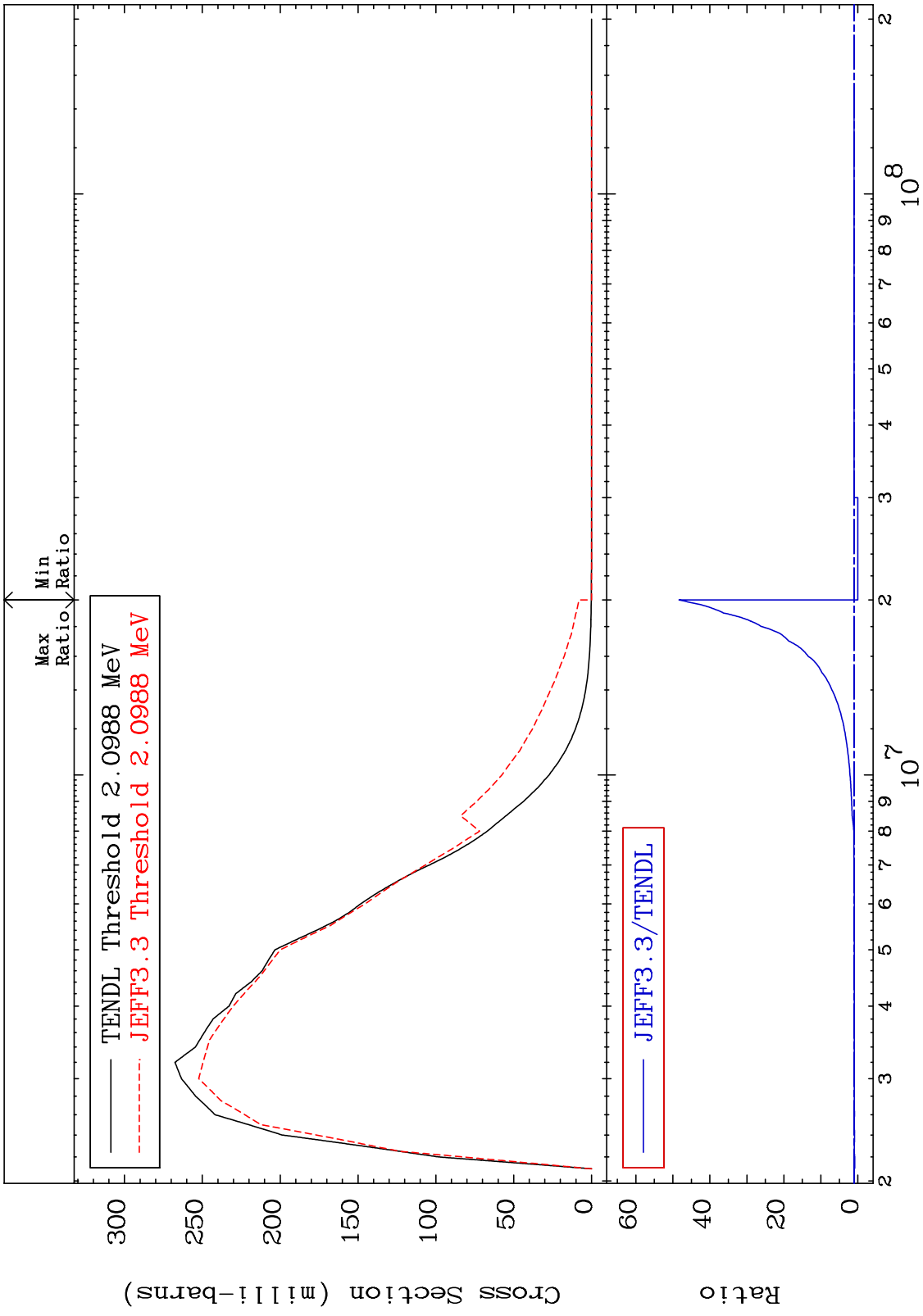




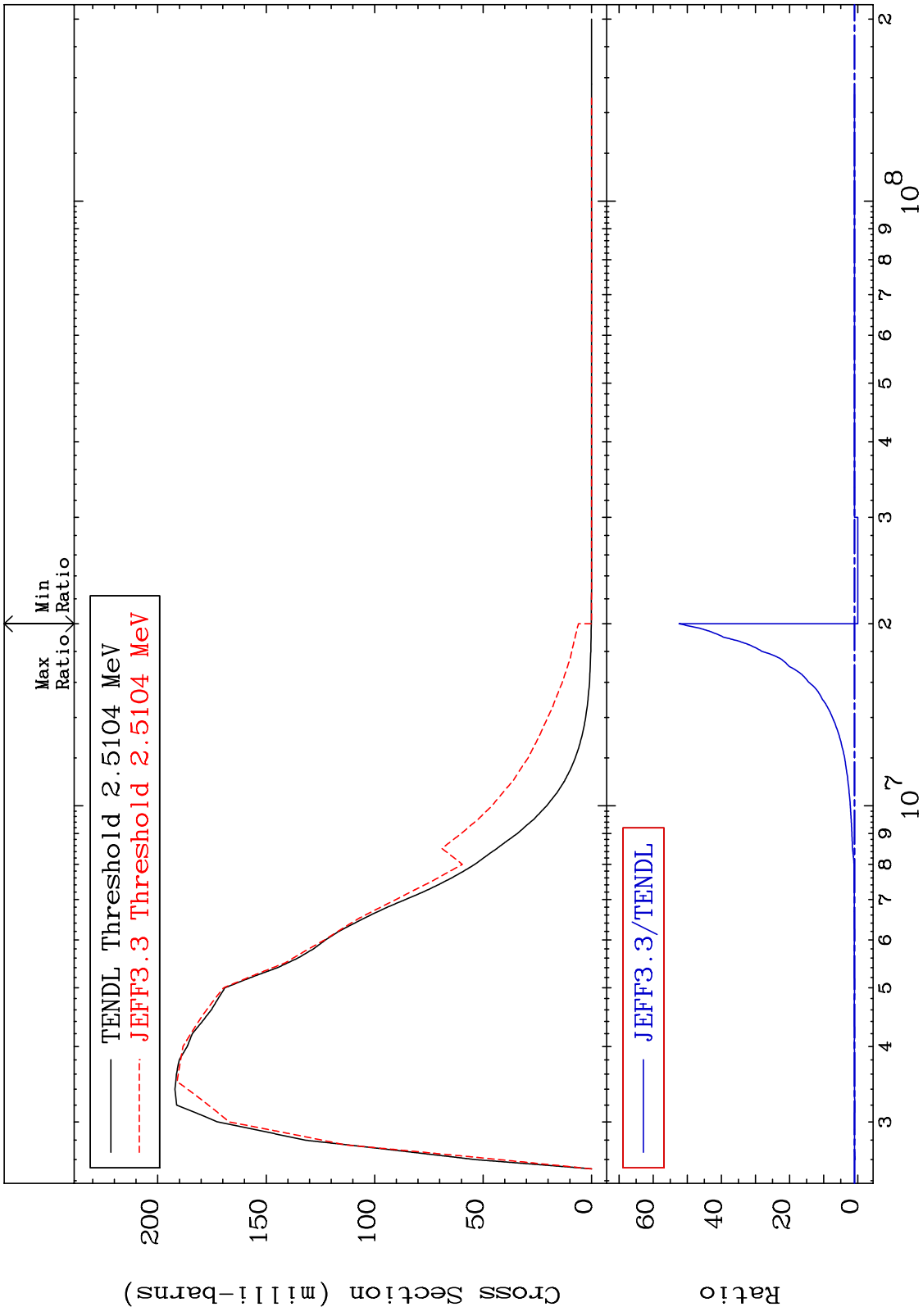
MAT 1428 MT= 51 (n,n') Level Cross Section -100.0 To 5060. % 14-Si-29



MAT 1428 MT= 52 (n,n') Level Cross Section -100.0 To 4733. % 14-Si-29

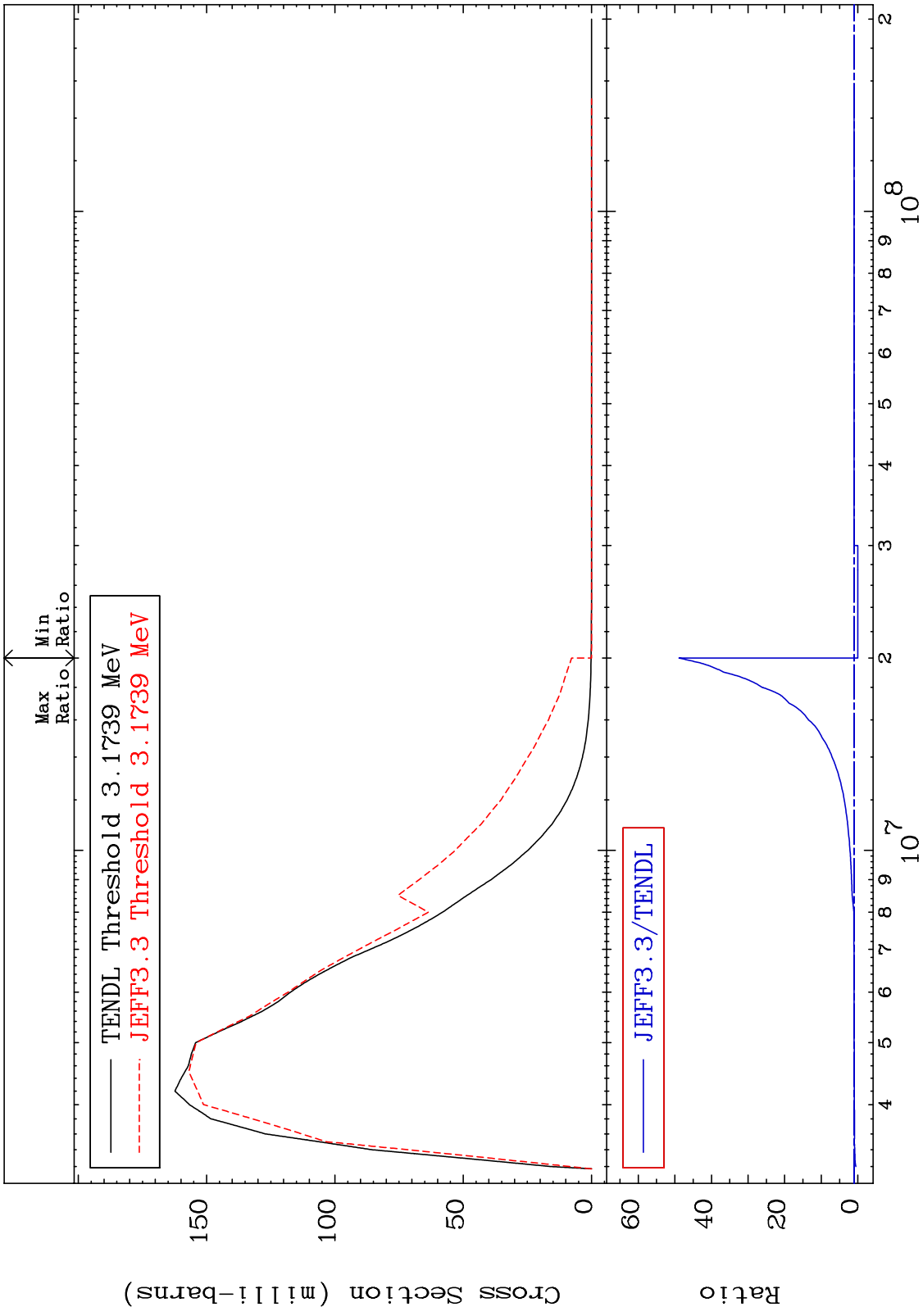


MAT 1428 MT= 53 (n, n') Level Cross Section -100.0 To 5140. % 14-Si-29

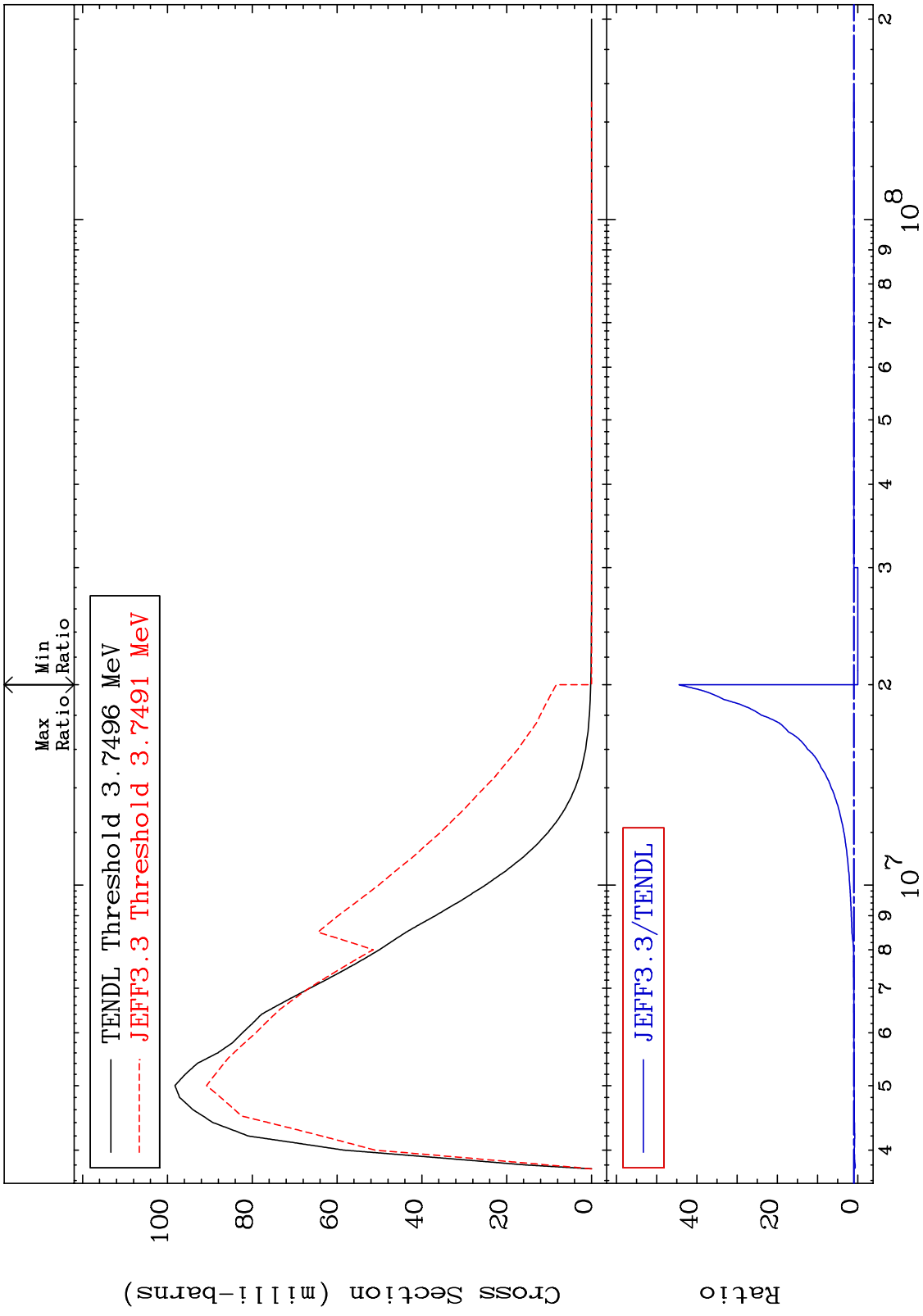


10 14-Si-29

MAT 1428 MT= 54 (n,n') Level Cross Section -100.0 To 4785. % 14-Si-29

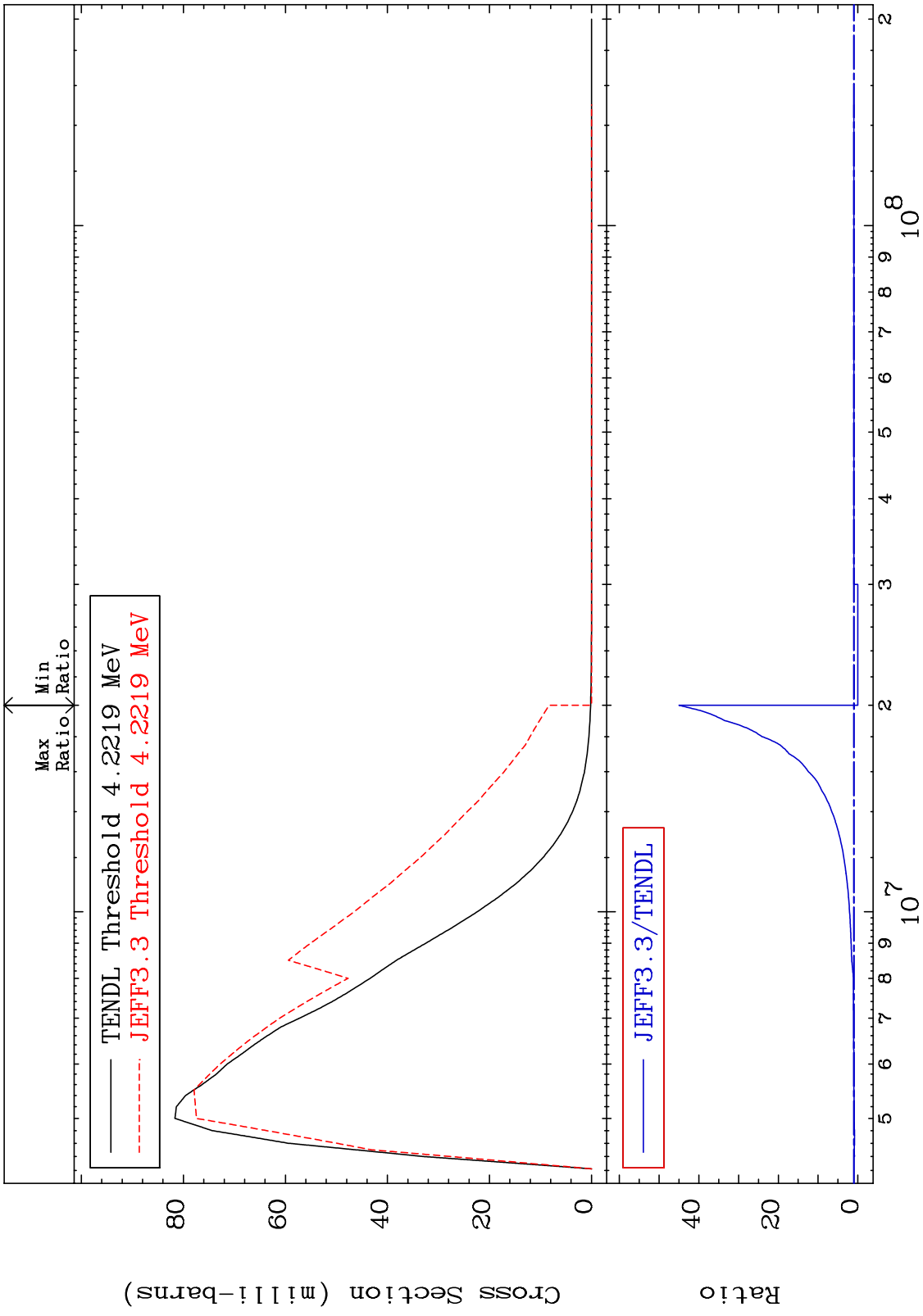


MAT 1428 MT= 55 (n,n') Level Cross Section -100.0 To 4344. % 14-Si-29



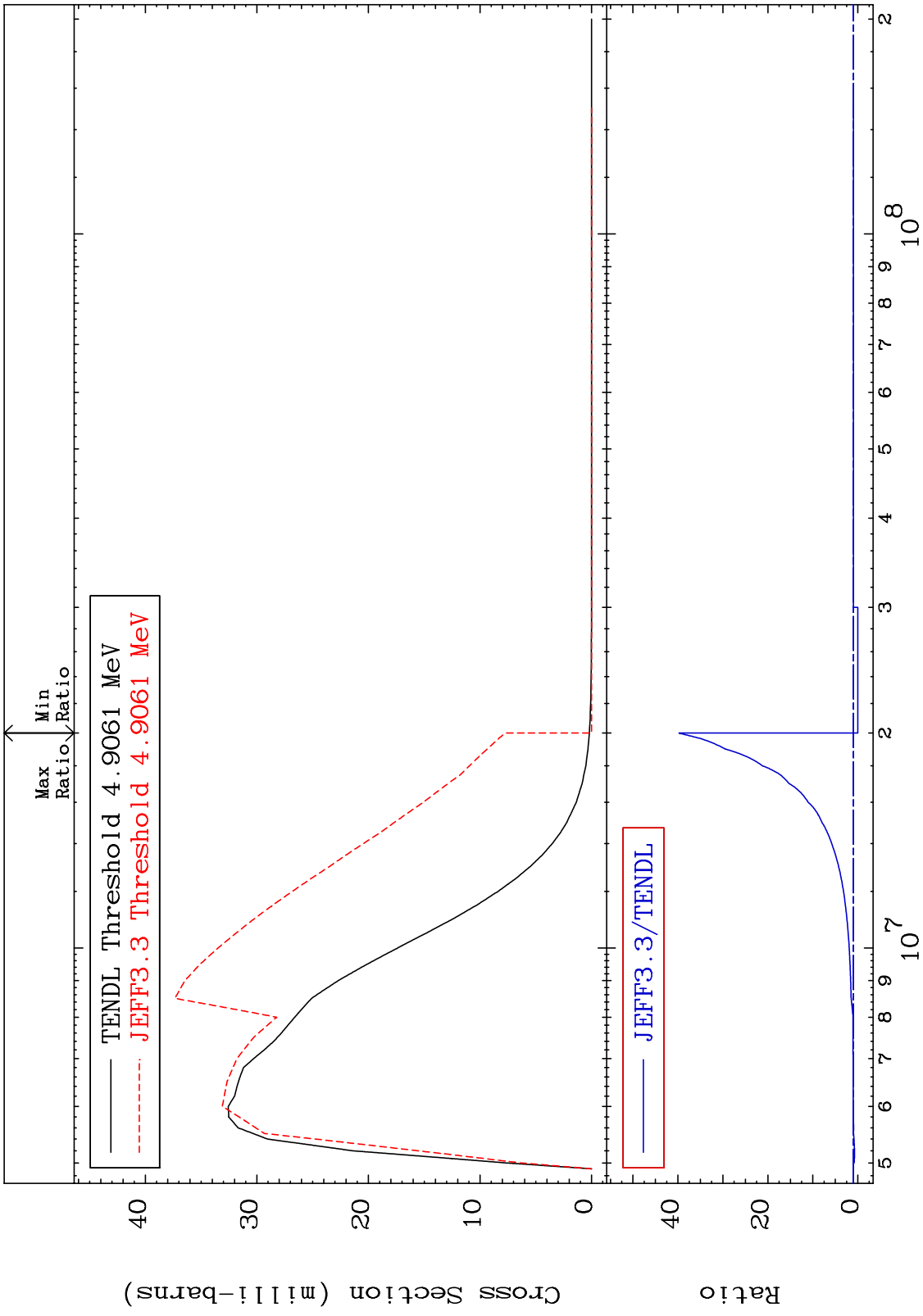
12 14-Si-29

MAT 1428 MT= 56 (n,n') Level Cross Section -100.0 To 4399. % 14-Si-29



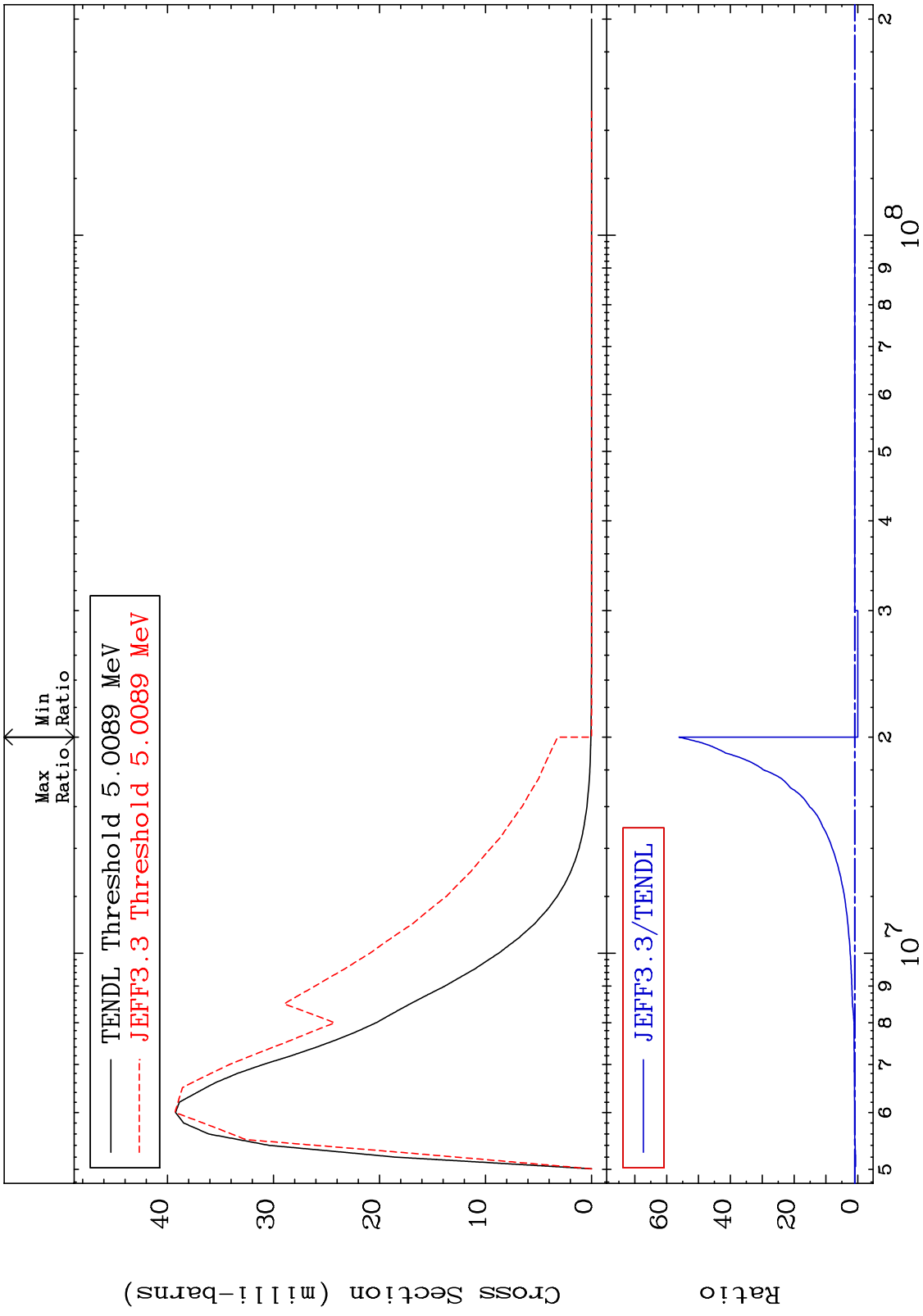
13 14-Si-29 Incident Energy (eV)

MAT 1428 MT= 57 (n,n') Level Cross Section -100.0 To 3875. % 14-Si-29



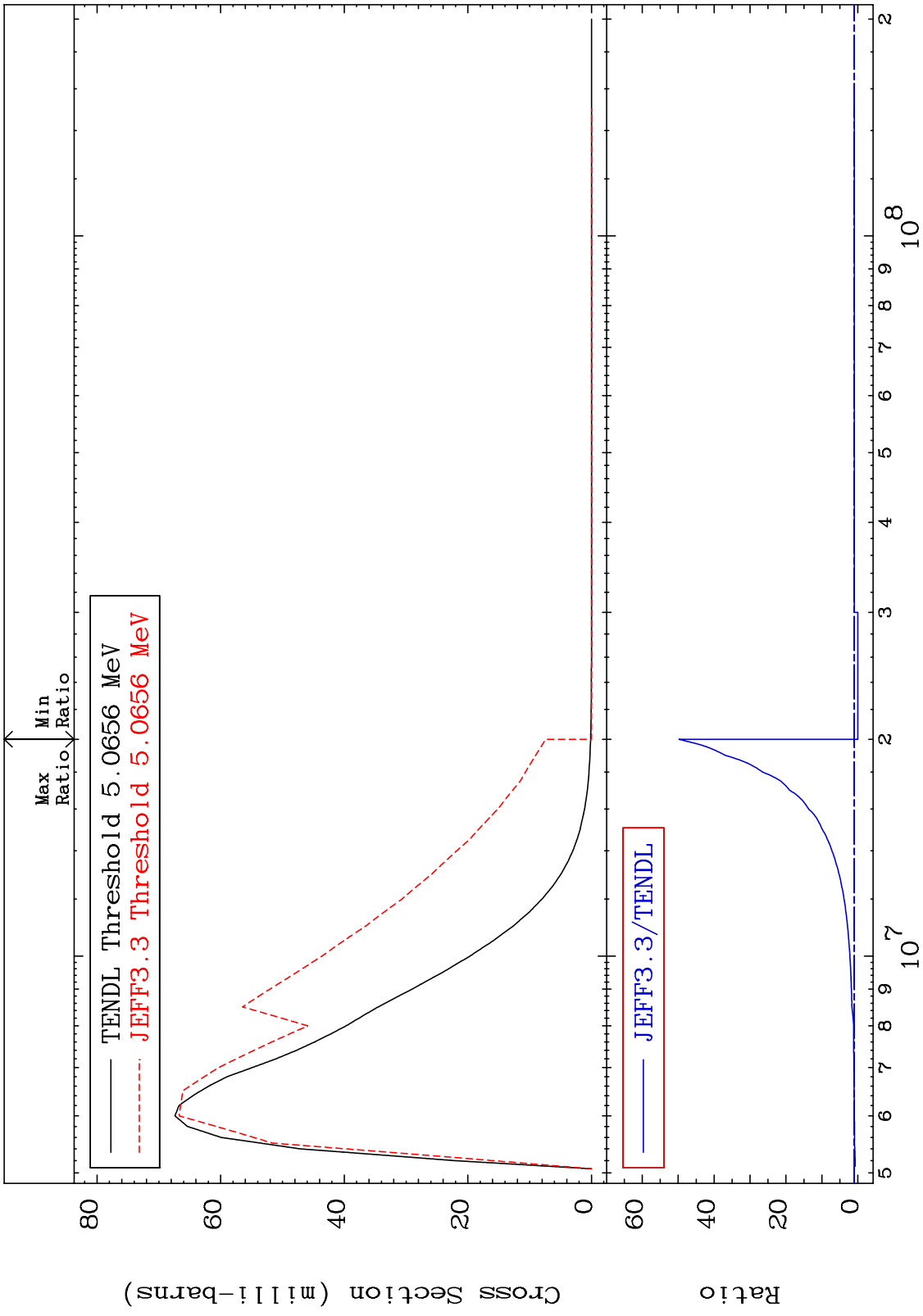
14 Incident Energy (eV) 14-Si-29

MAT 1428 MT= 58 (n,n') Level Cross Section -100.0 To 5512. % 14-Si-29



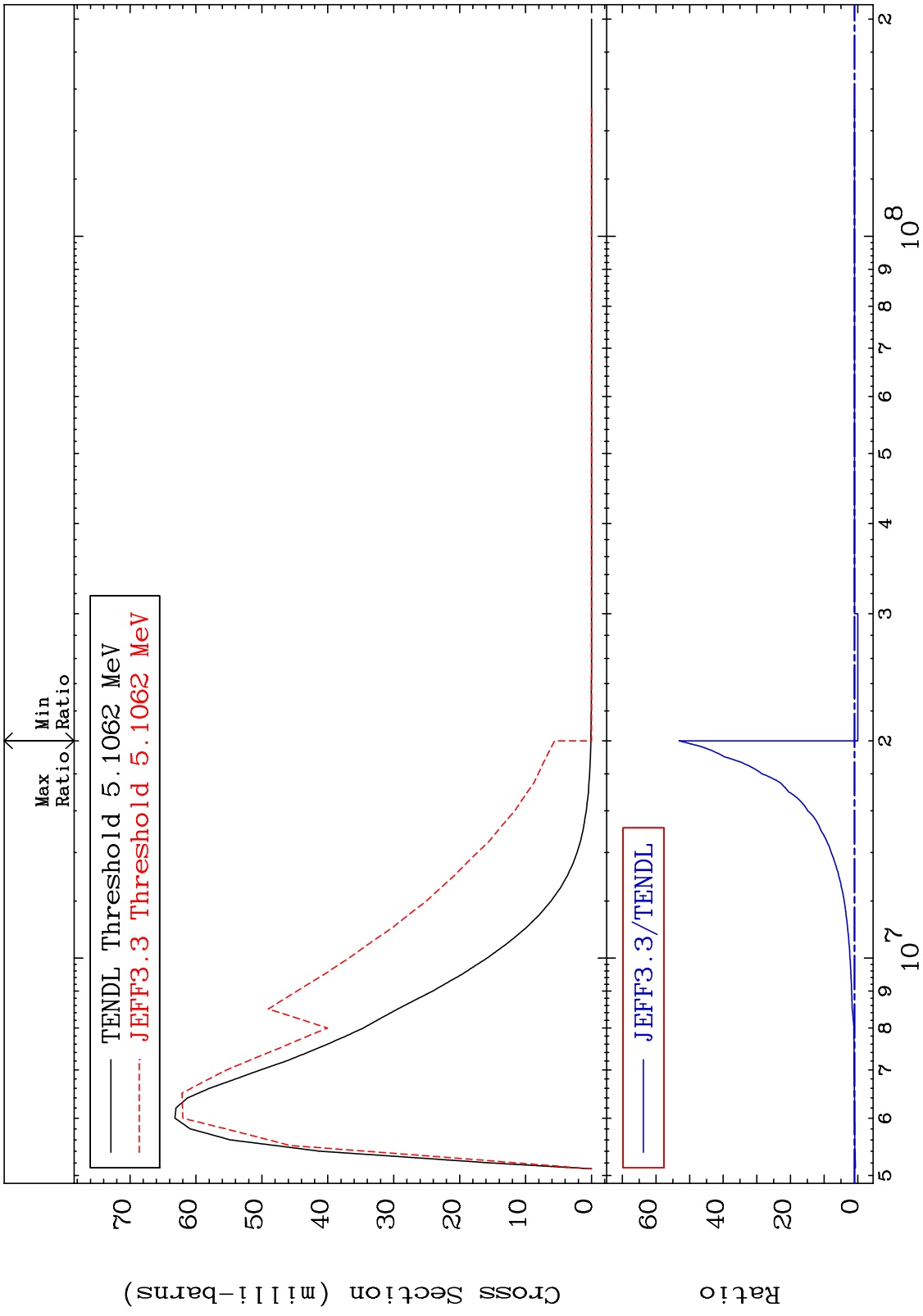
15 Incident Energy (eV) 14-Si-29

MAT 1428 MT= 59 (n,n') Level Cross Section -100.0 To 4876. % 14-Si-29

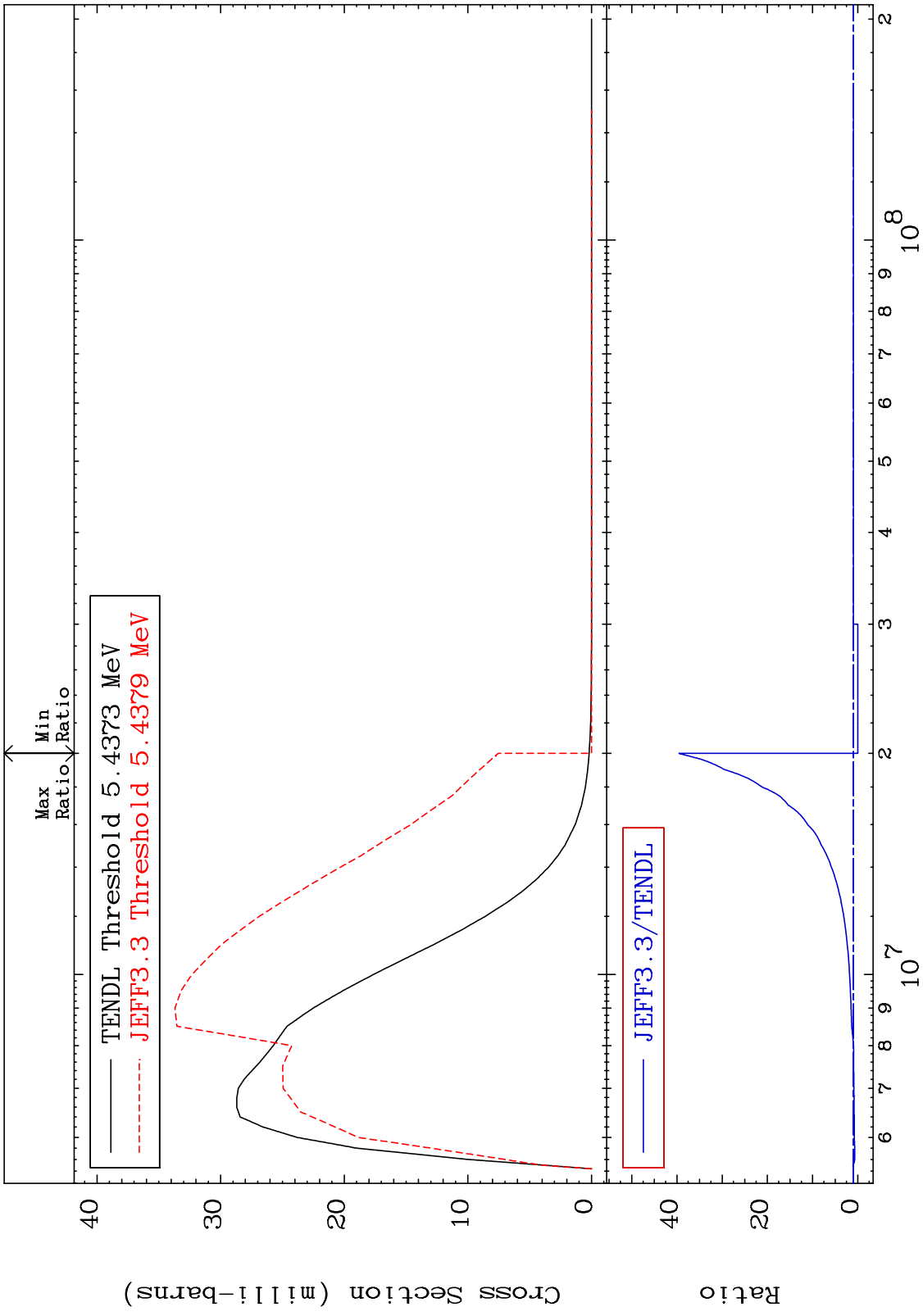


16 14-Si-29 Incident Energy (eV)

MAT 1428 MT= 60 (n,n') Level Cross Section -100.0 To 5213. % 14-Si-29

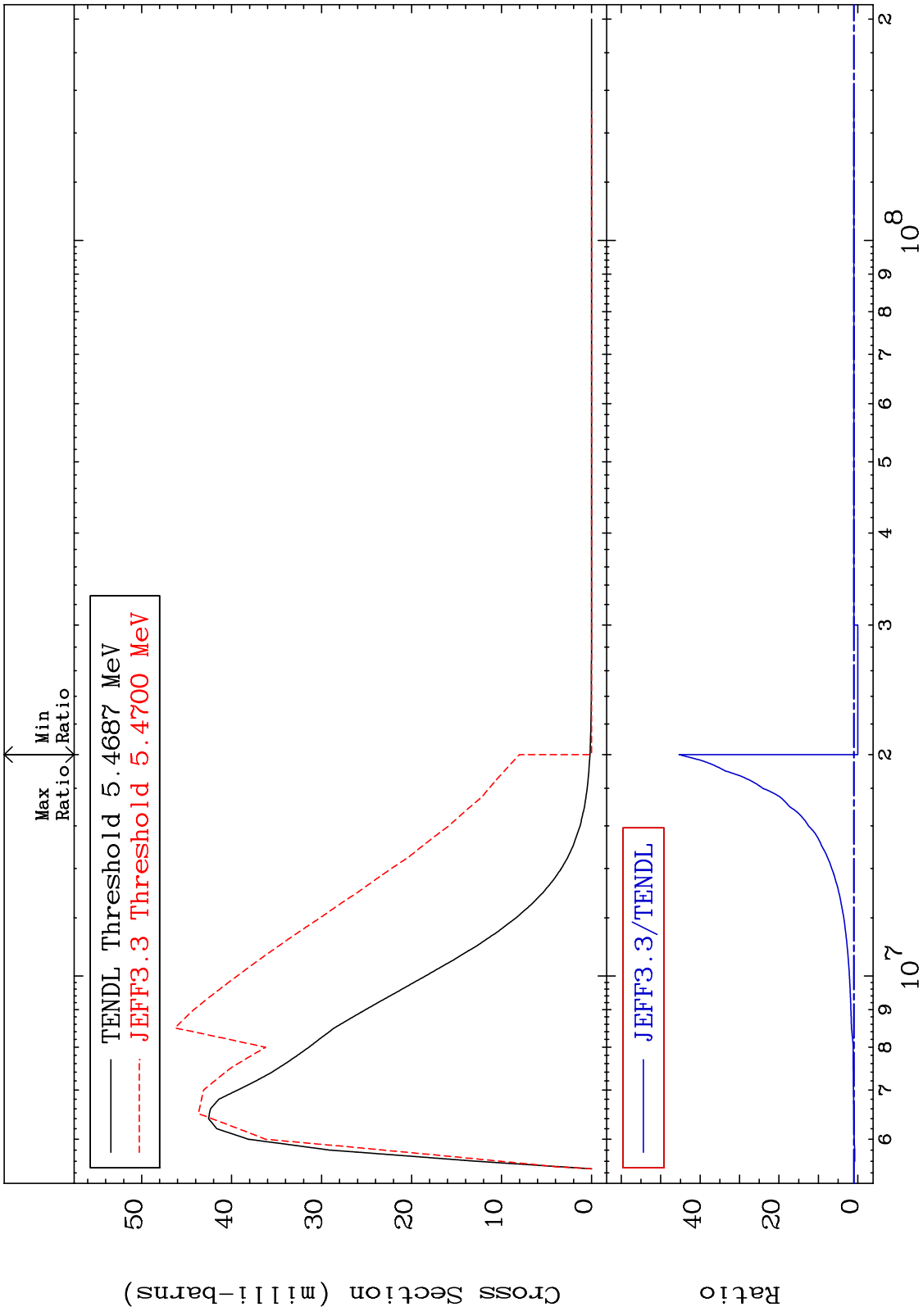


MAT 1428 MT= 61 (n,n') Level Cross Section -100.0 To 3854. % 14-Si-29



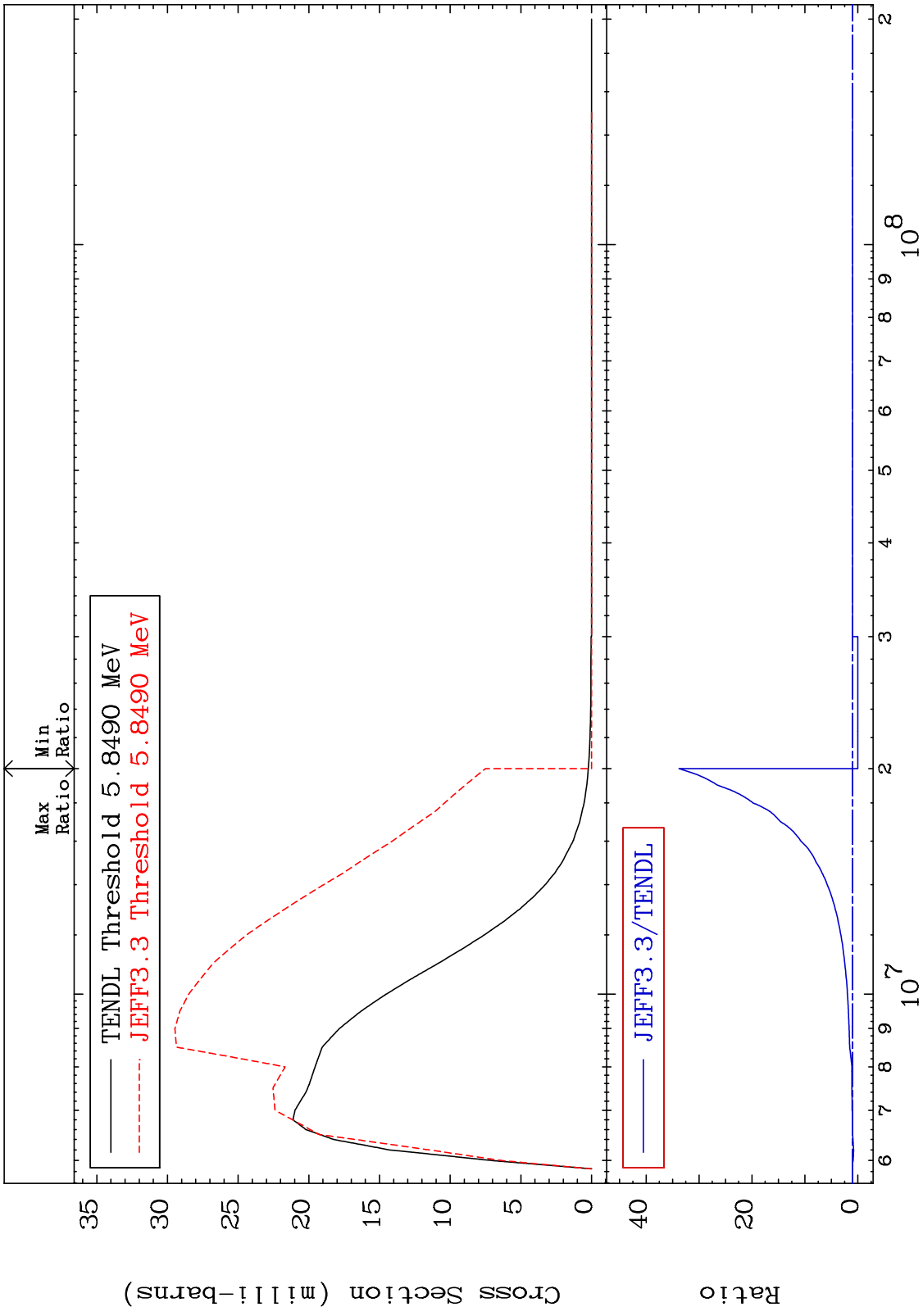
18 14-Si-29

MAT 1428 MT= 62 (n,n') Level Cross Section -100.0 To 4435. % 14-Si-29



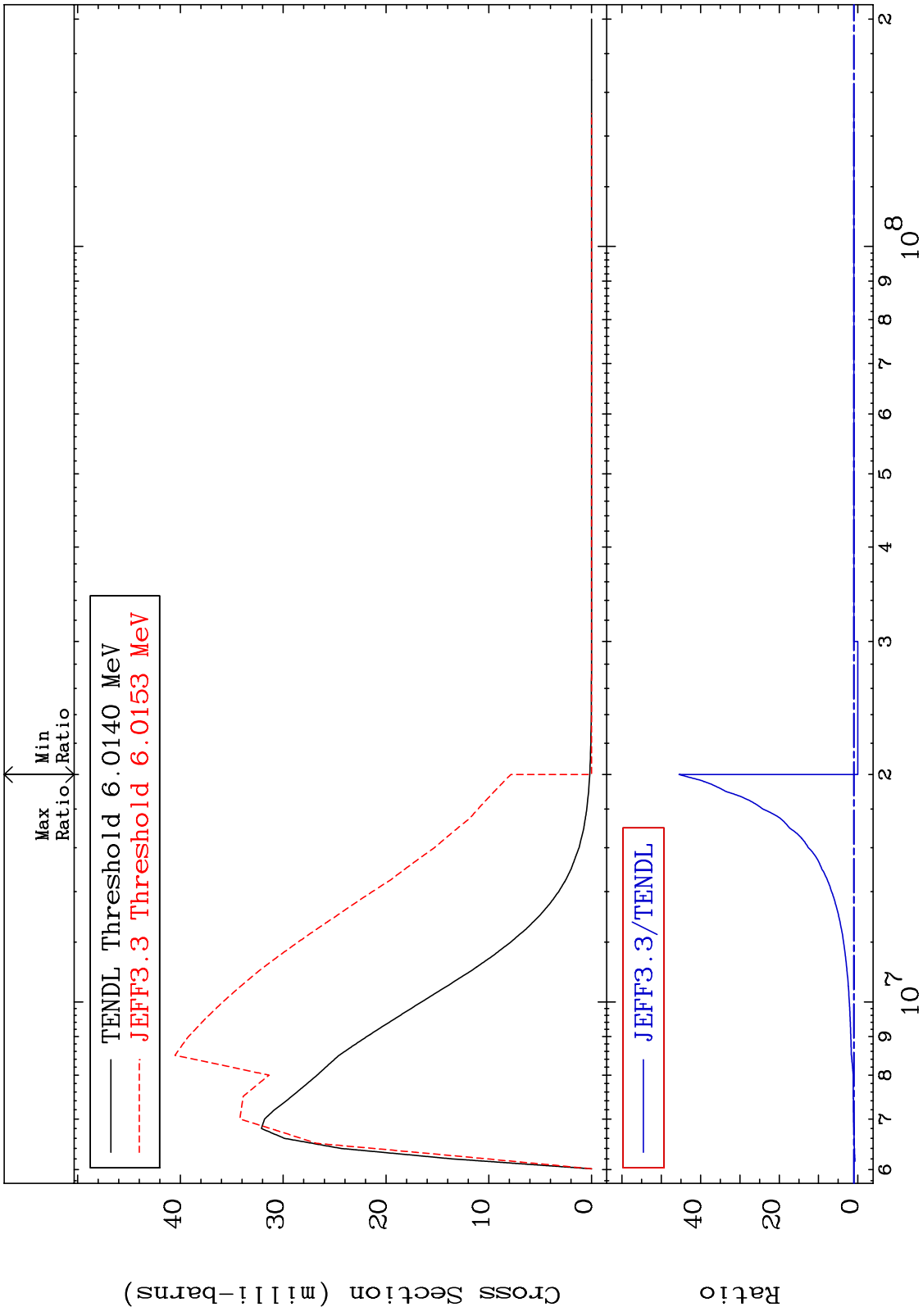
19 14-Si-29

MAT 1428 MT= 63 (n,n') Level Cross Section 14-Si-29
 -100.0 To 3277. %

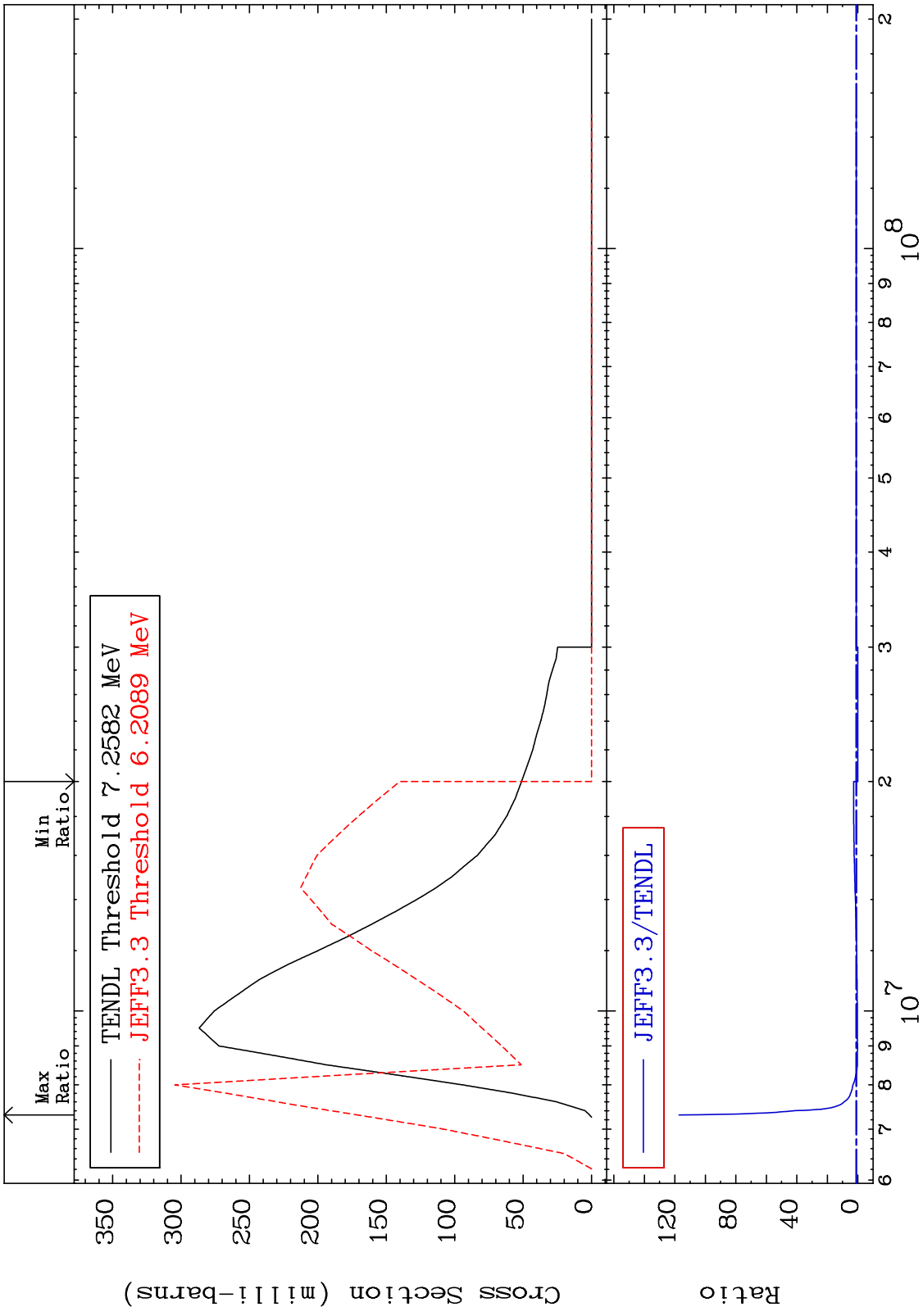


14-Si-29

MAT 1428 MT= 64 (n,n') Level Cross Section -100.0 To 4449. % 14-Si-29



MAT 1428 (n, n') Continuum Cross Section -100.0 To 9999. % 14-Si-29



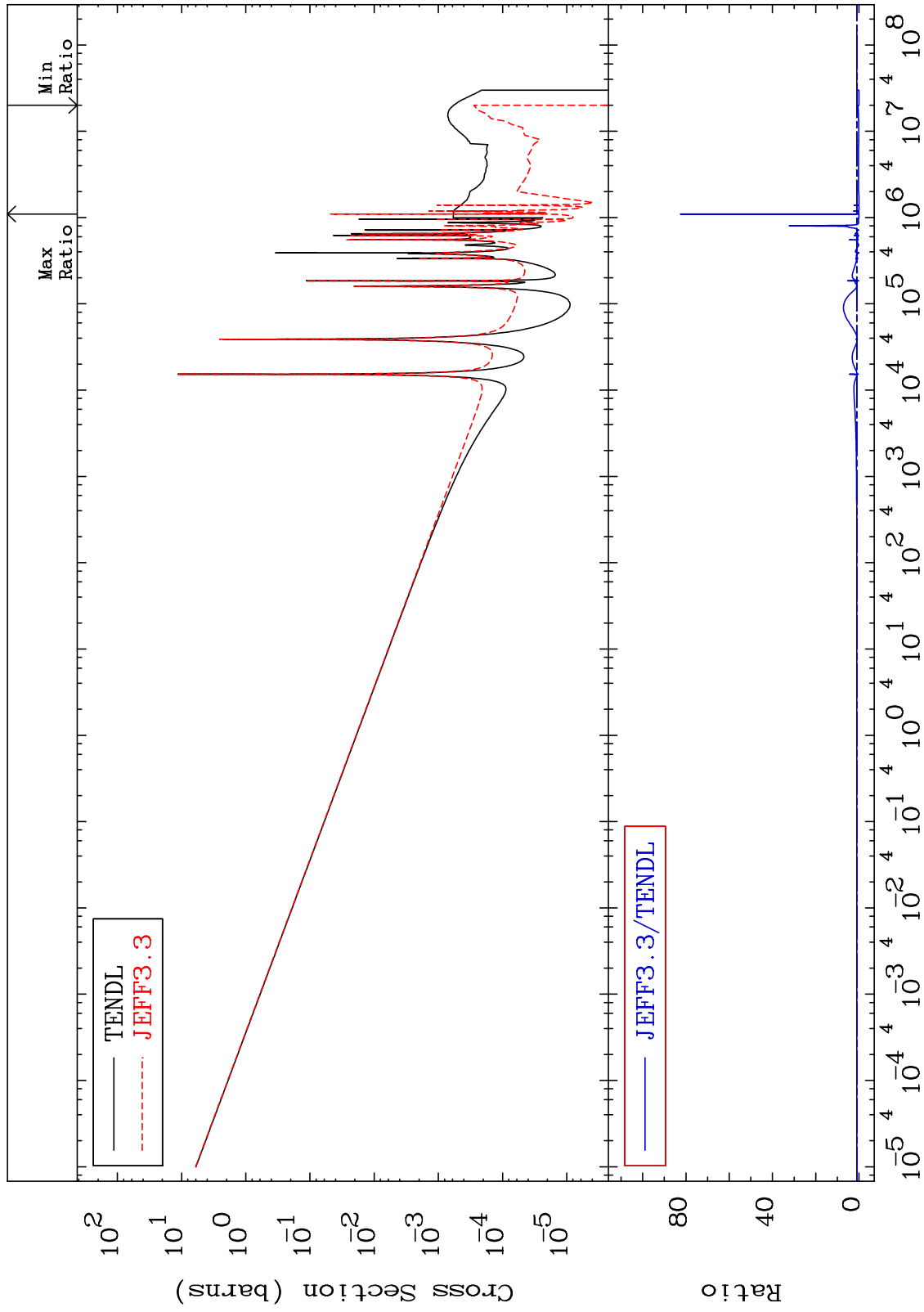
MAT 1428

(n, γ)

14-Si-29

Cross Section

-100.0 To 8145. %

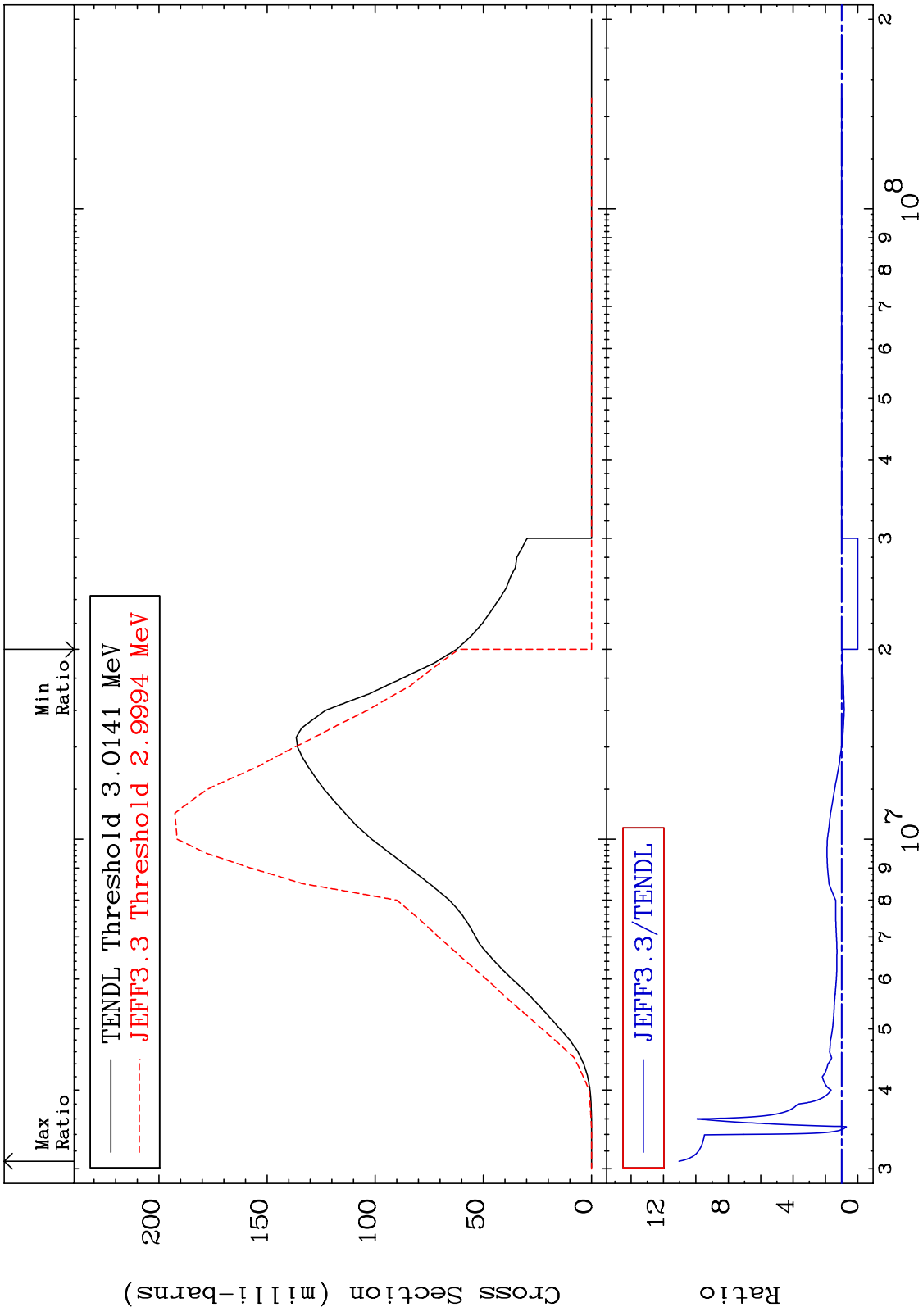


23

Incident Energy (eV)

14-Si-29

MAT 1428 (n,p) 14-Si-29 -100.0 To 1004. %



24 14-Si-29 Incident Energy (eV)

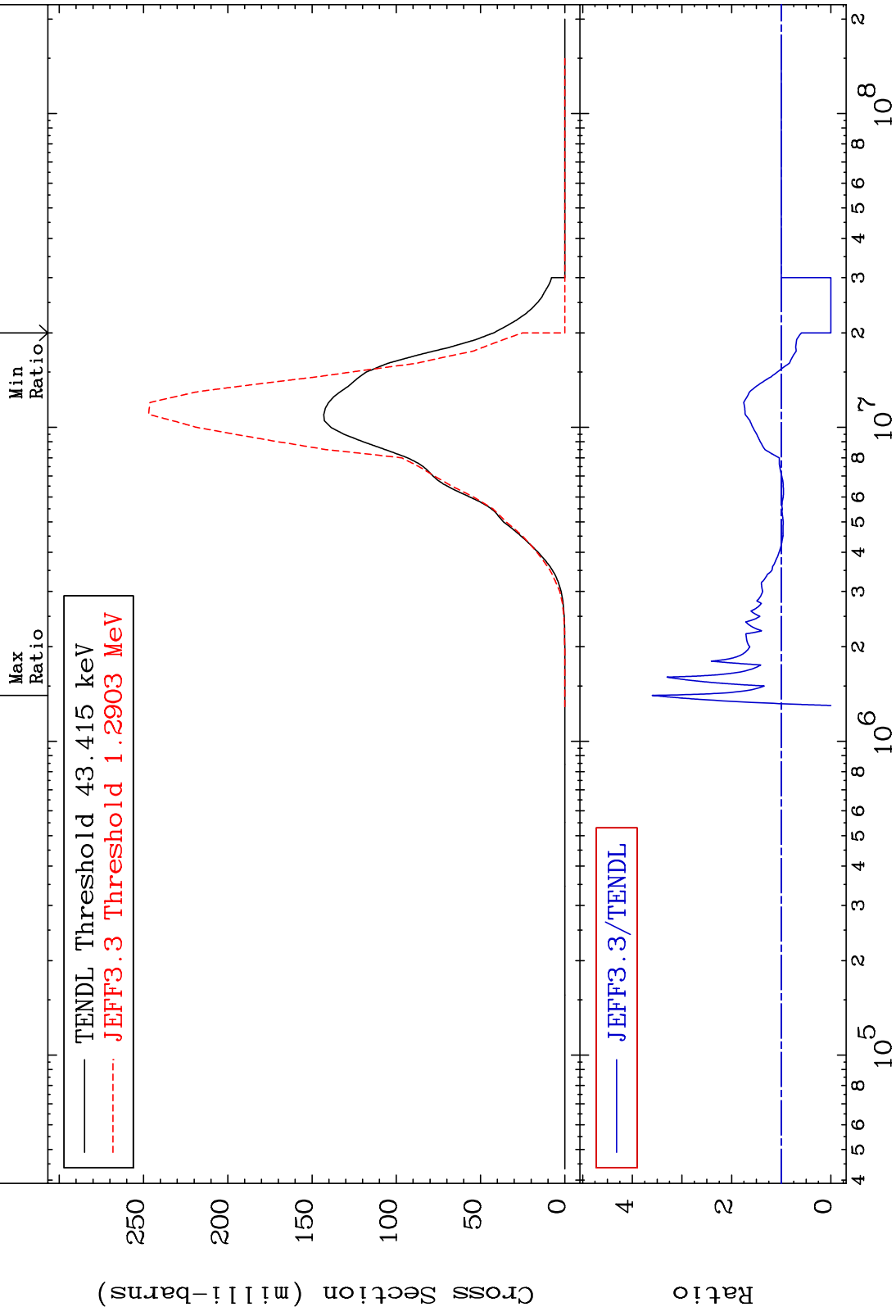
MAT 1428

14-Si-29

-100.0 To 259.8 %

(n, α)

Cross Section



— TENDL Threshold 43.415 keV
- - - JEFF3.3 Threshold 1.2903 MeV

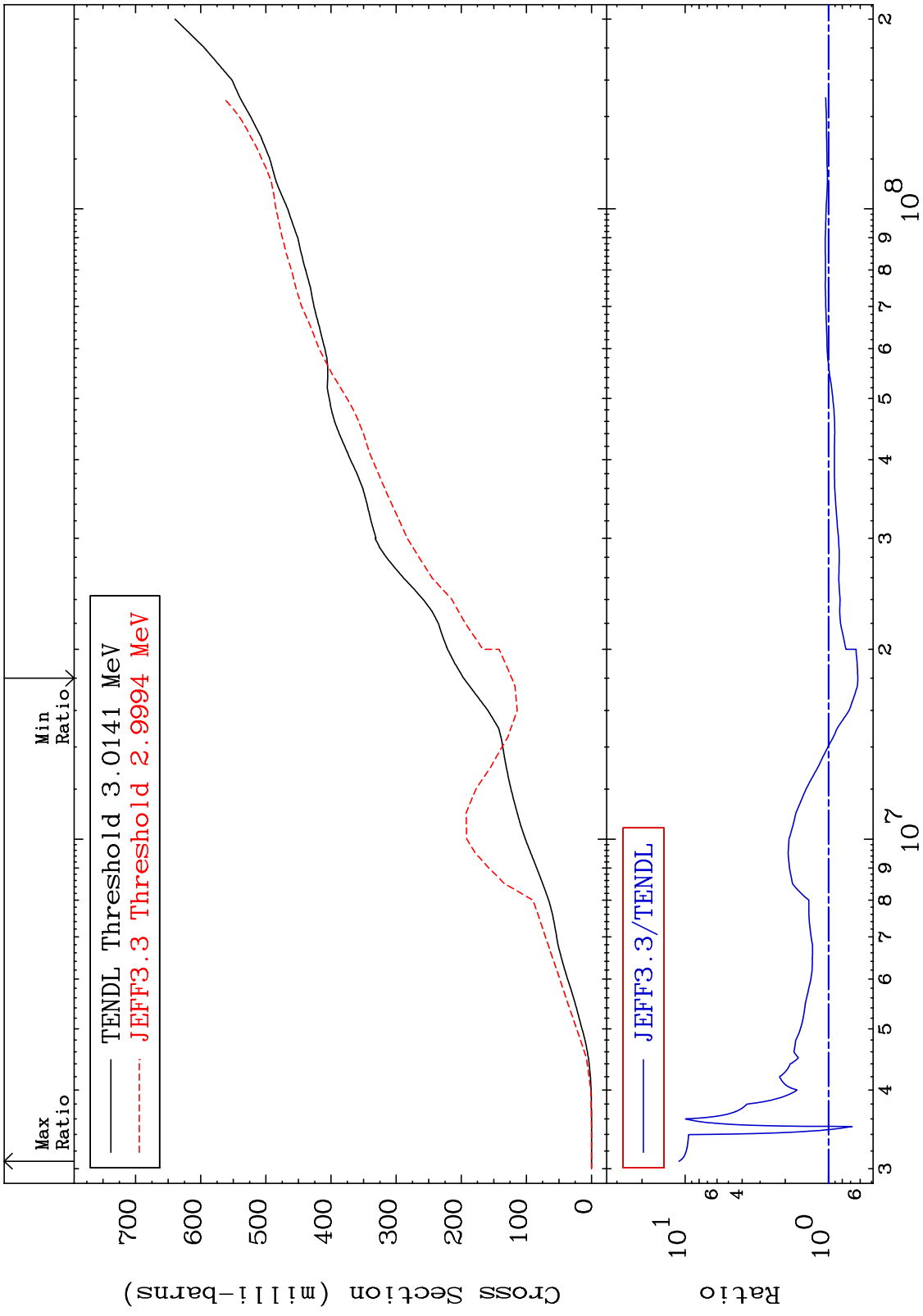
— JEFF3.3/TENDL

25

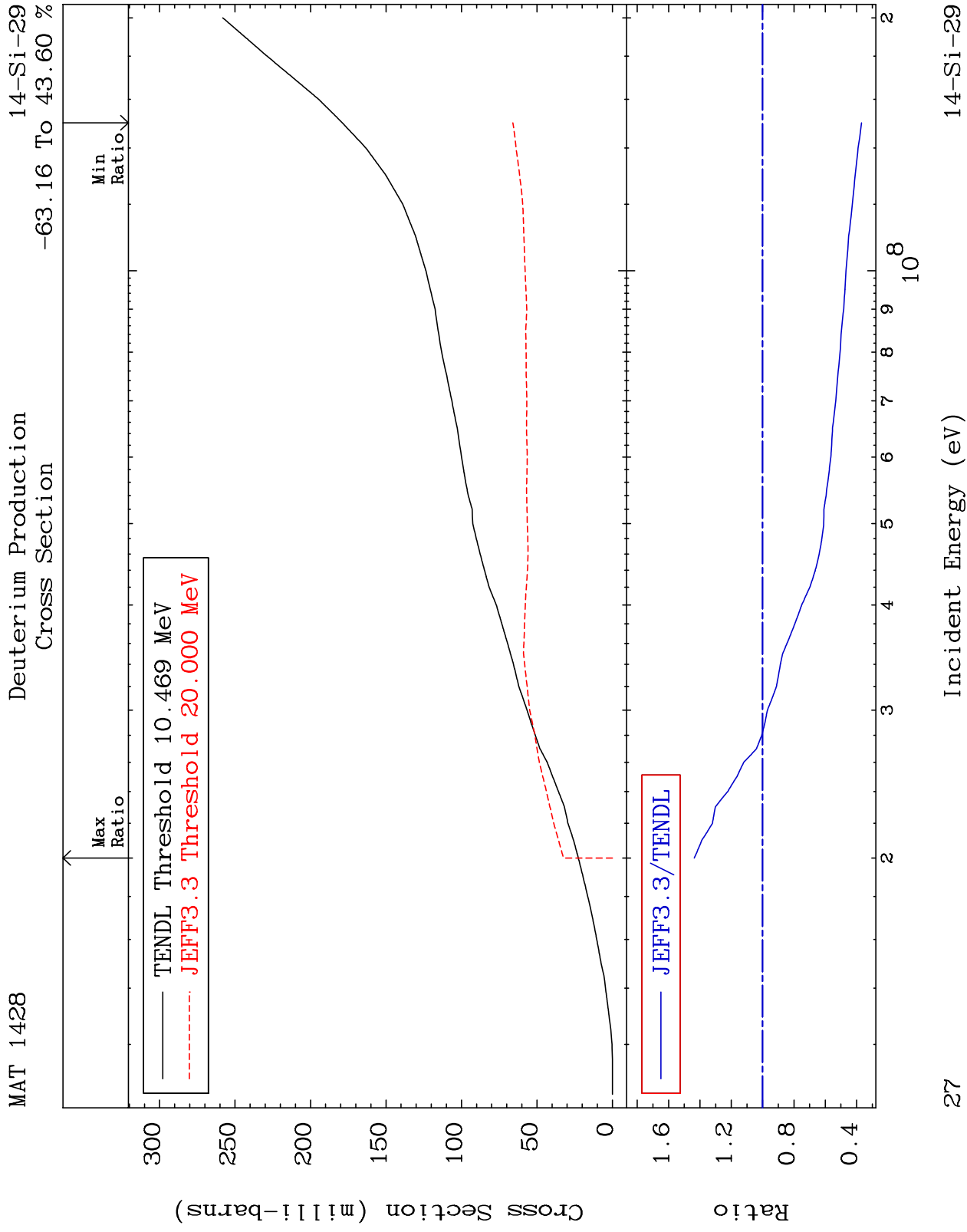
Incident Energy (eV)

14-Si-29

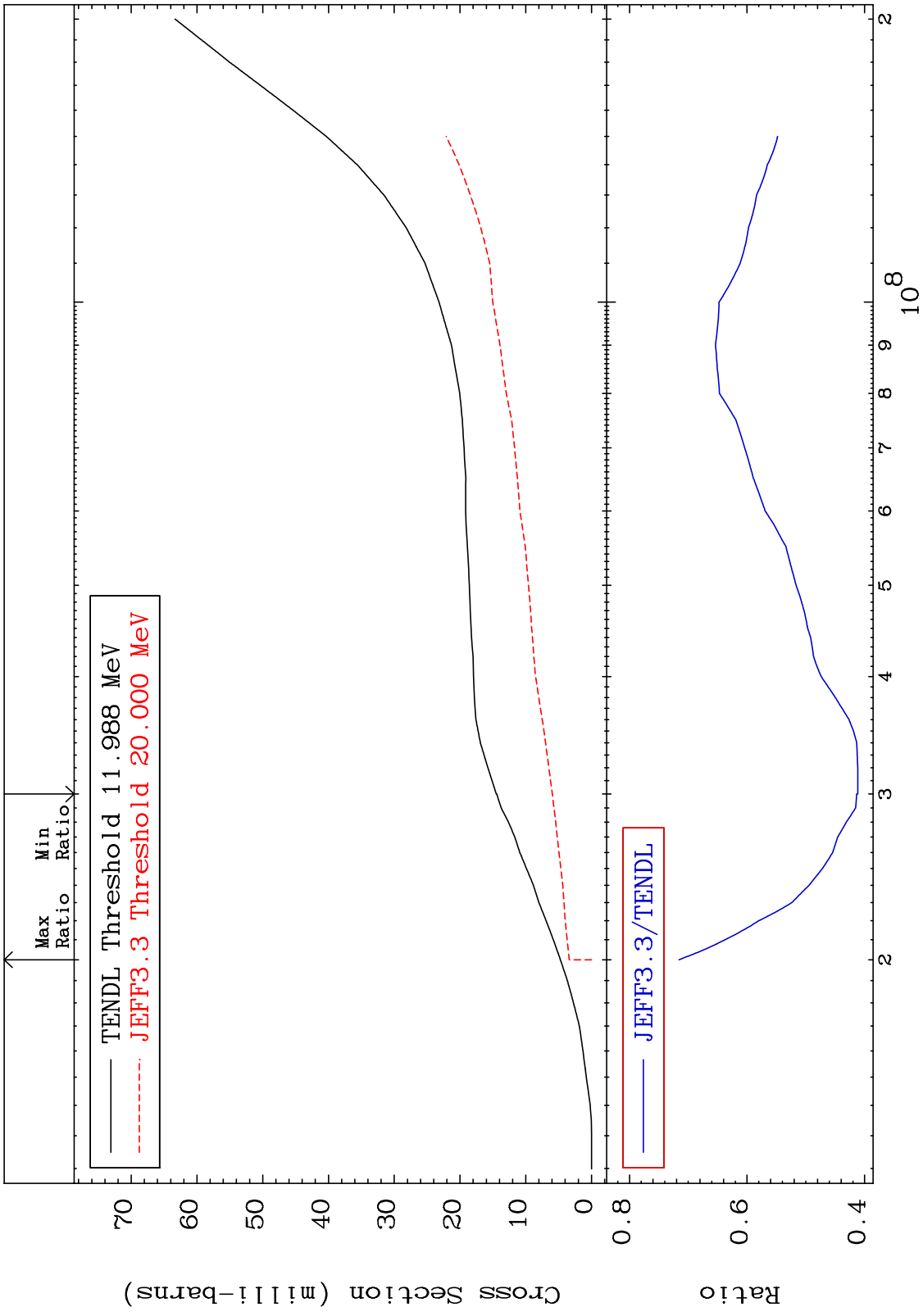
MAT 1428 Hydrogen Production Cross Section 14-Si-29
 -37.66 To 1004. %



26 14-Si-29



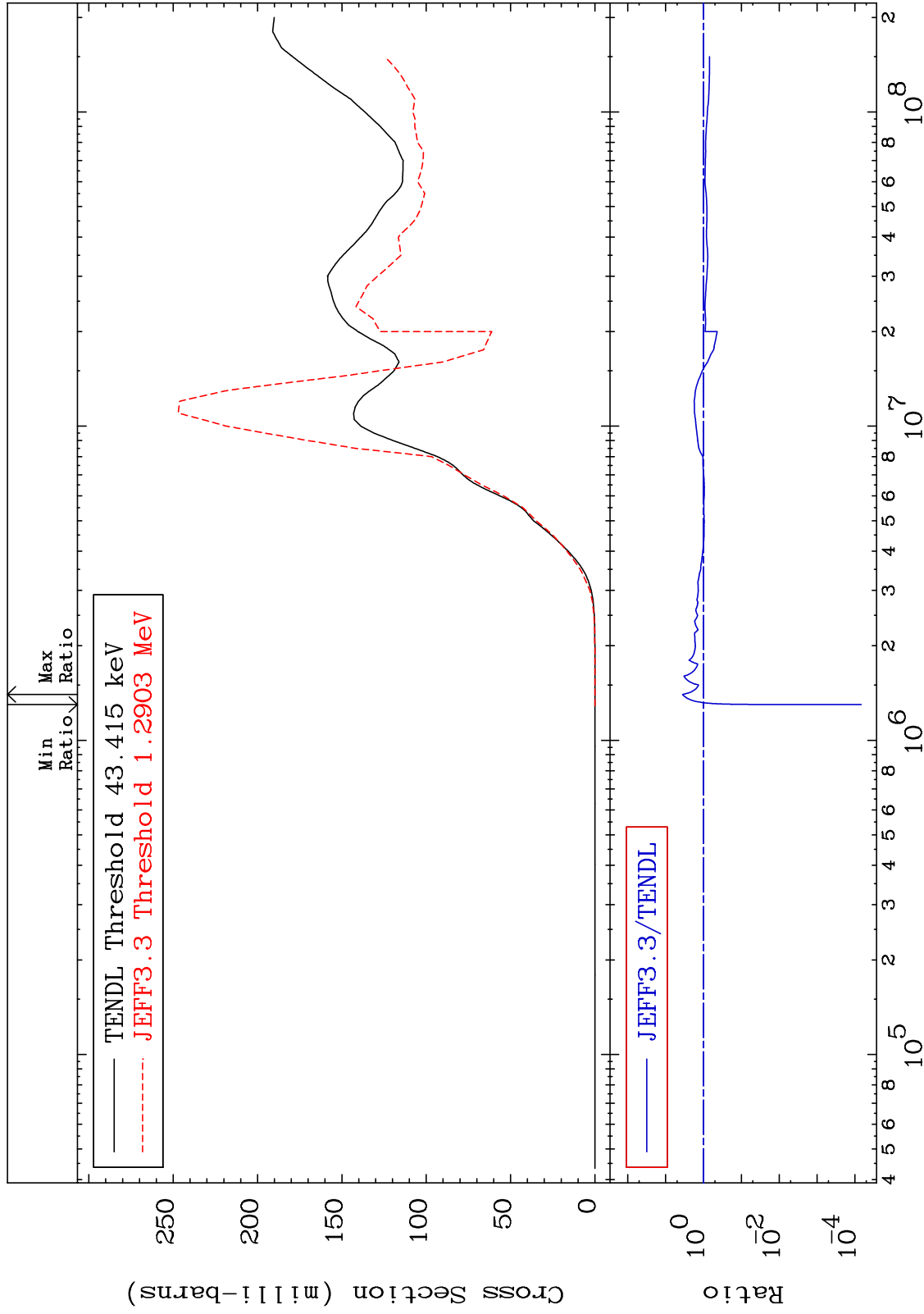
MAT 1428 Tritium Production Cross Section $^{14}\text{Si-29}$ -58.84 To -28.43%



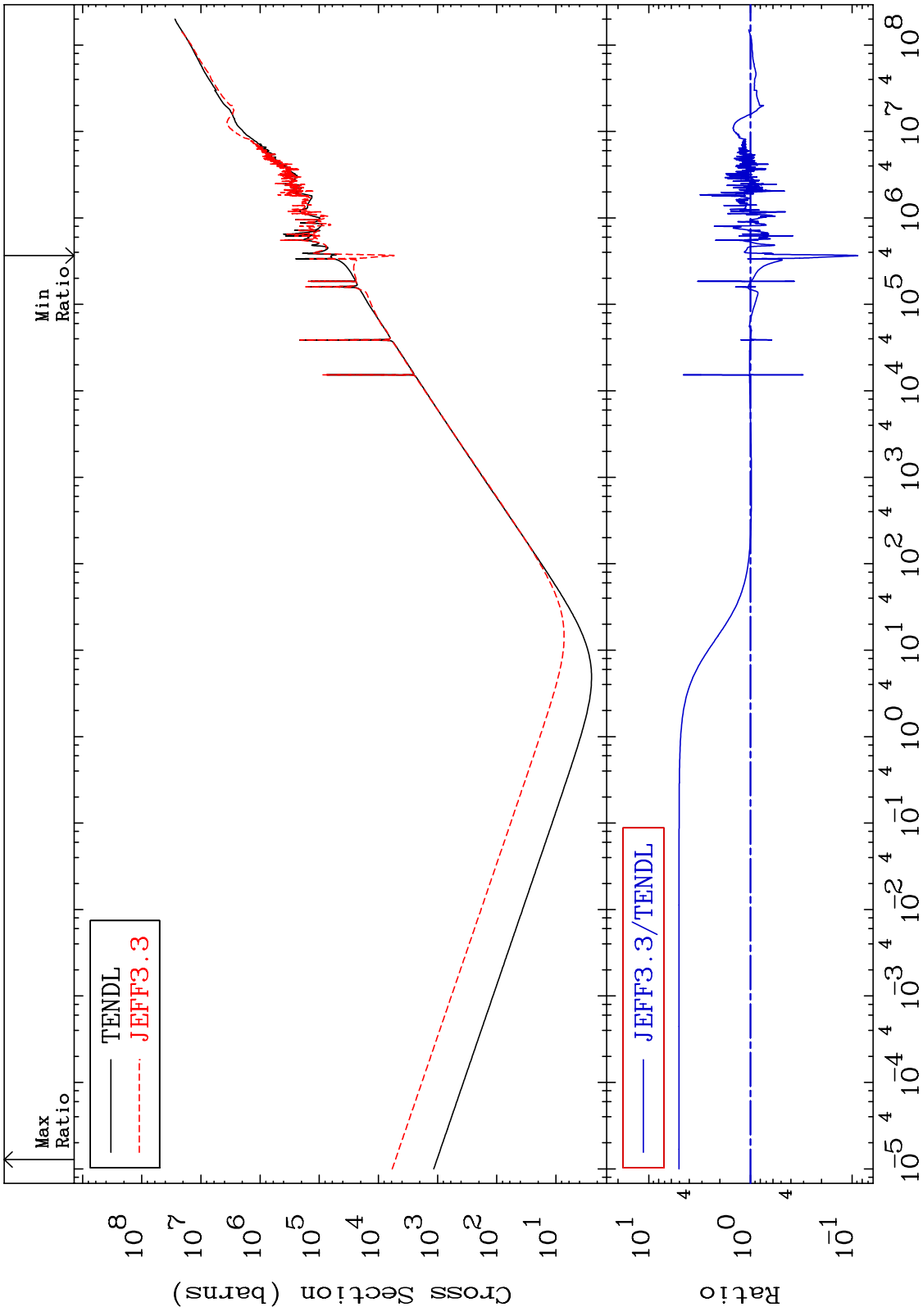
MAT 1428

He-4 Production
Cross Section

14-Si-29
-99.99 To 259.8 %



MAT 1428 Kerma total (eV-barns) 14-Si-29
 Cross Section -91.19 To 403.3 %

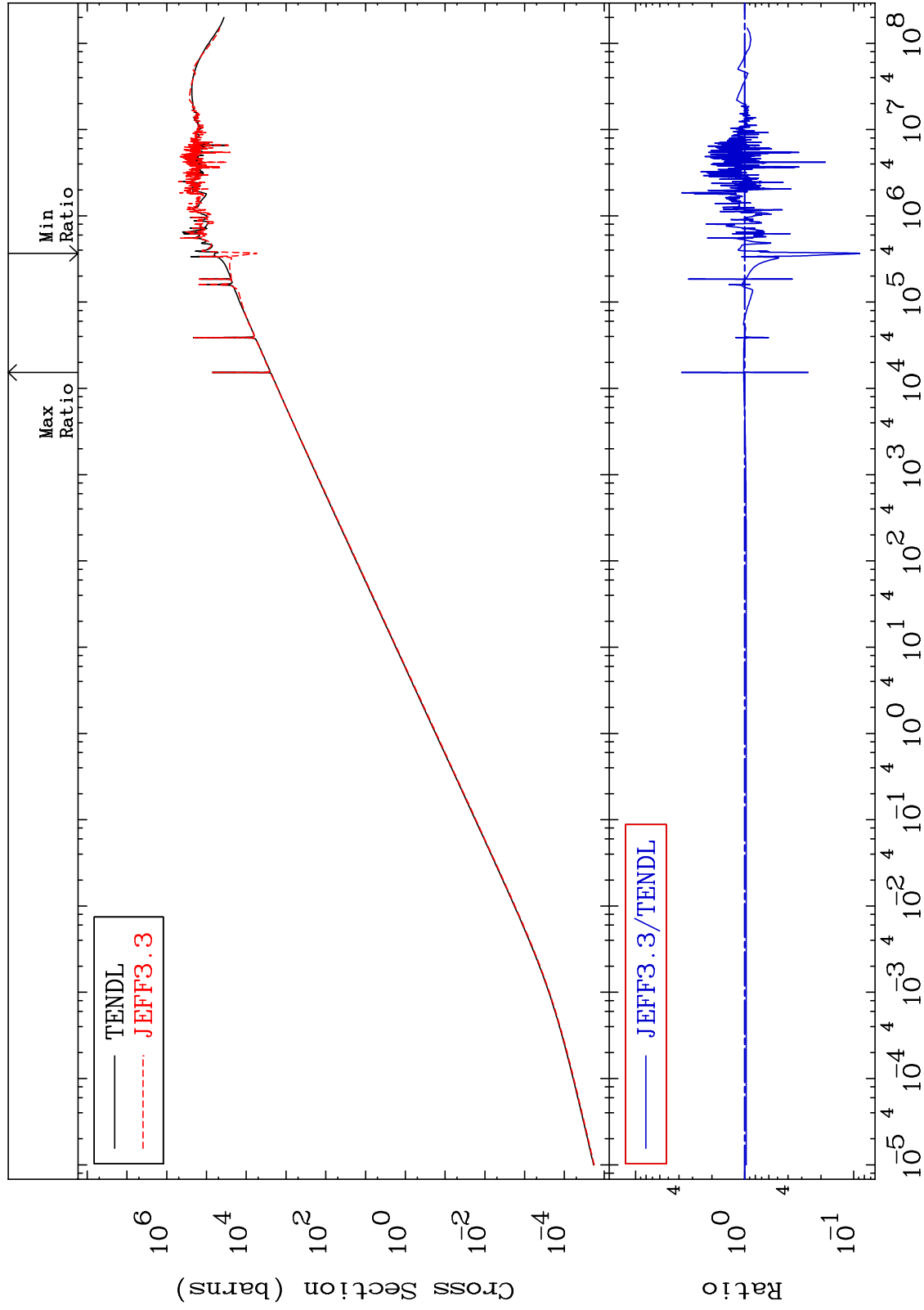


30 14-Si-29

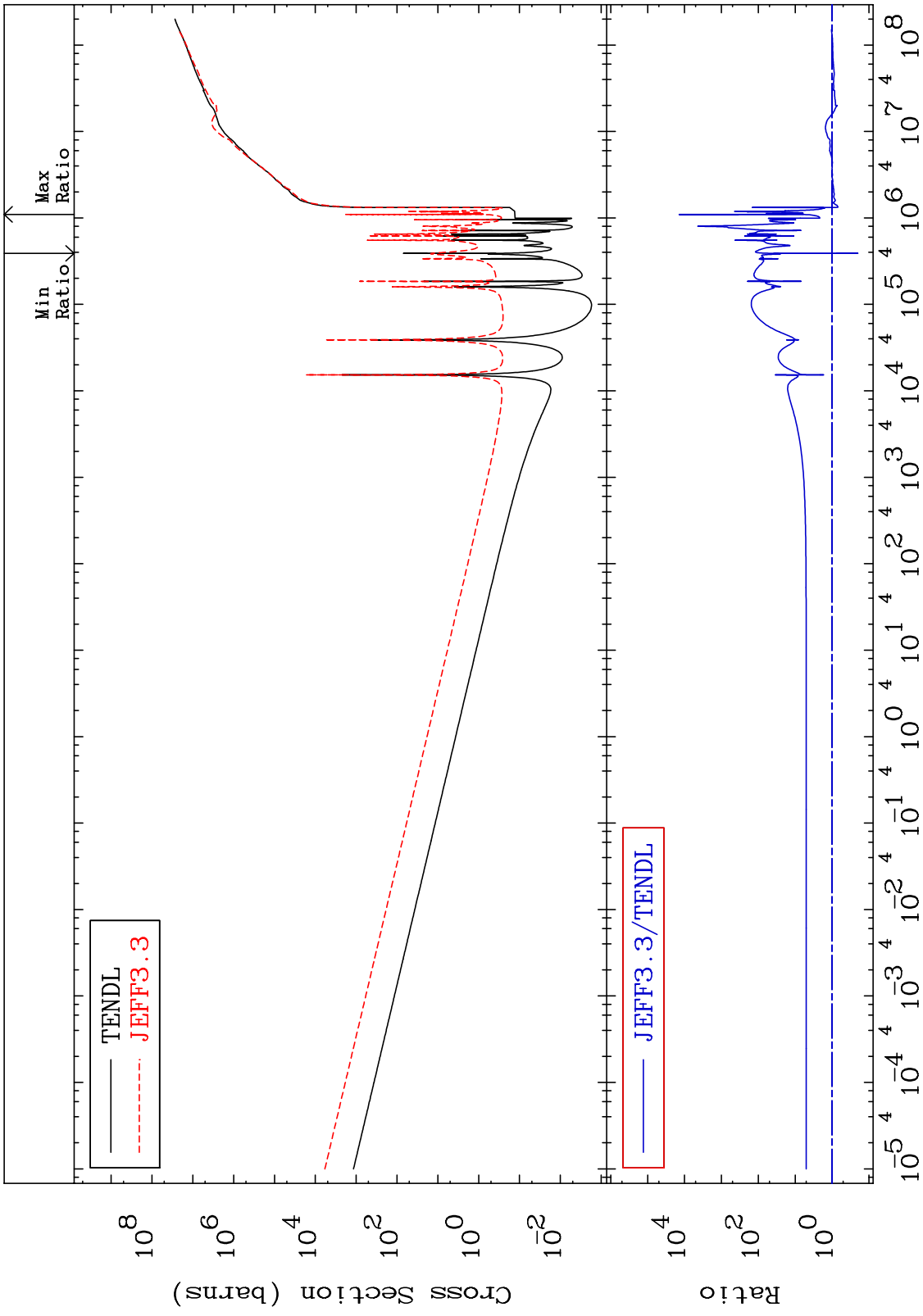
MAT 1428

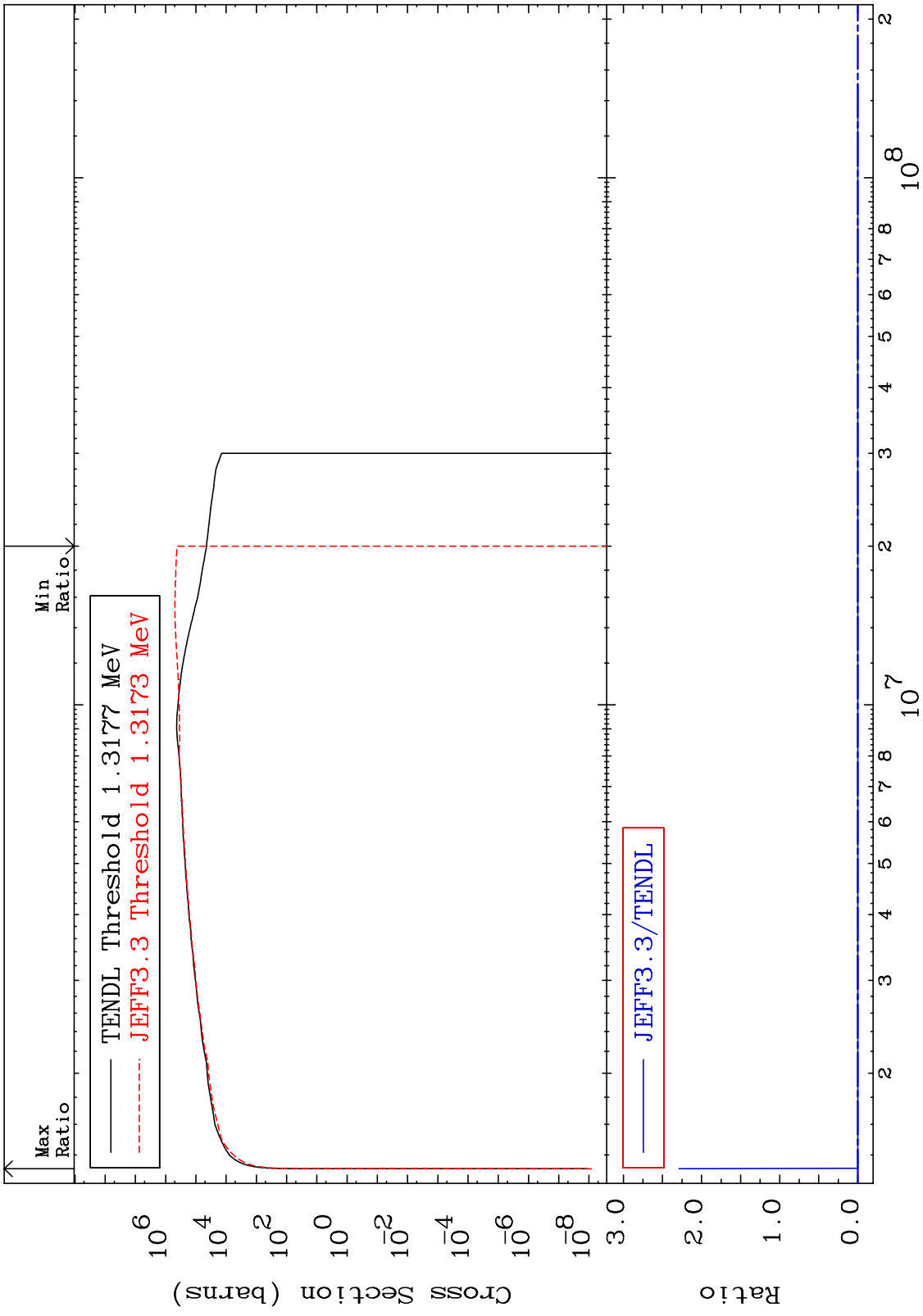
Kerma elastic
Cross Section

14-Si-29
-91.20 To 279.7 %

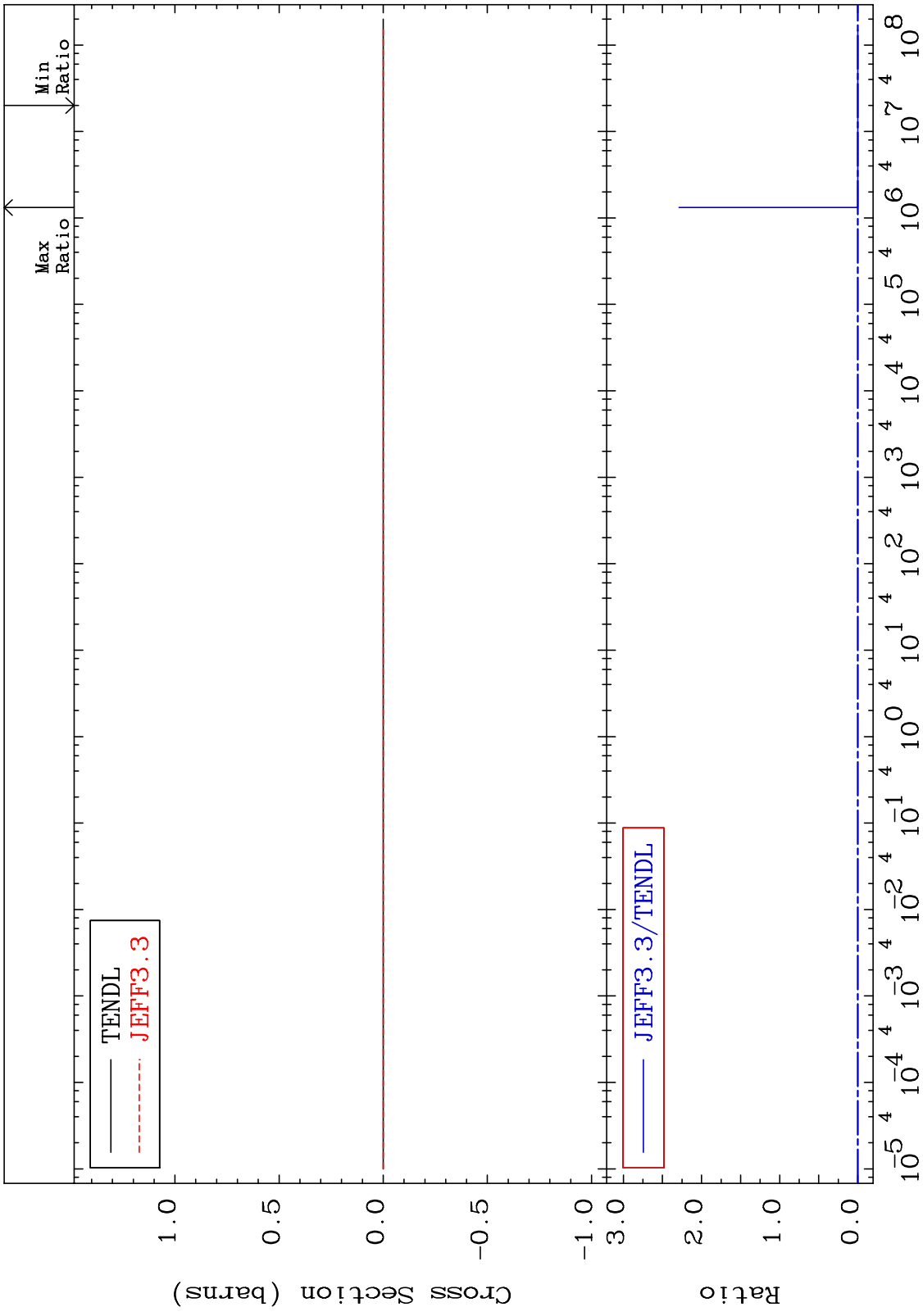


MAT 1428 Kerma non-elastic (all but mt2) 14-Si-29
 Cross Section -79.95 To 9999. %

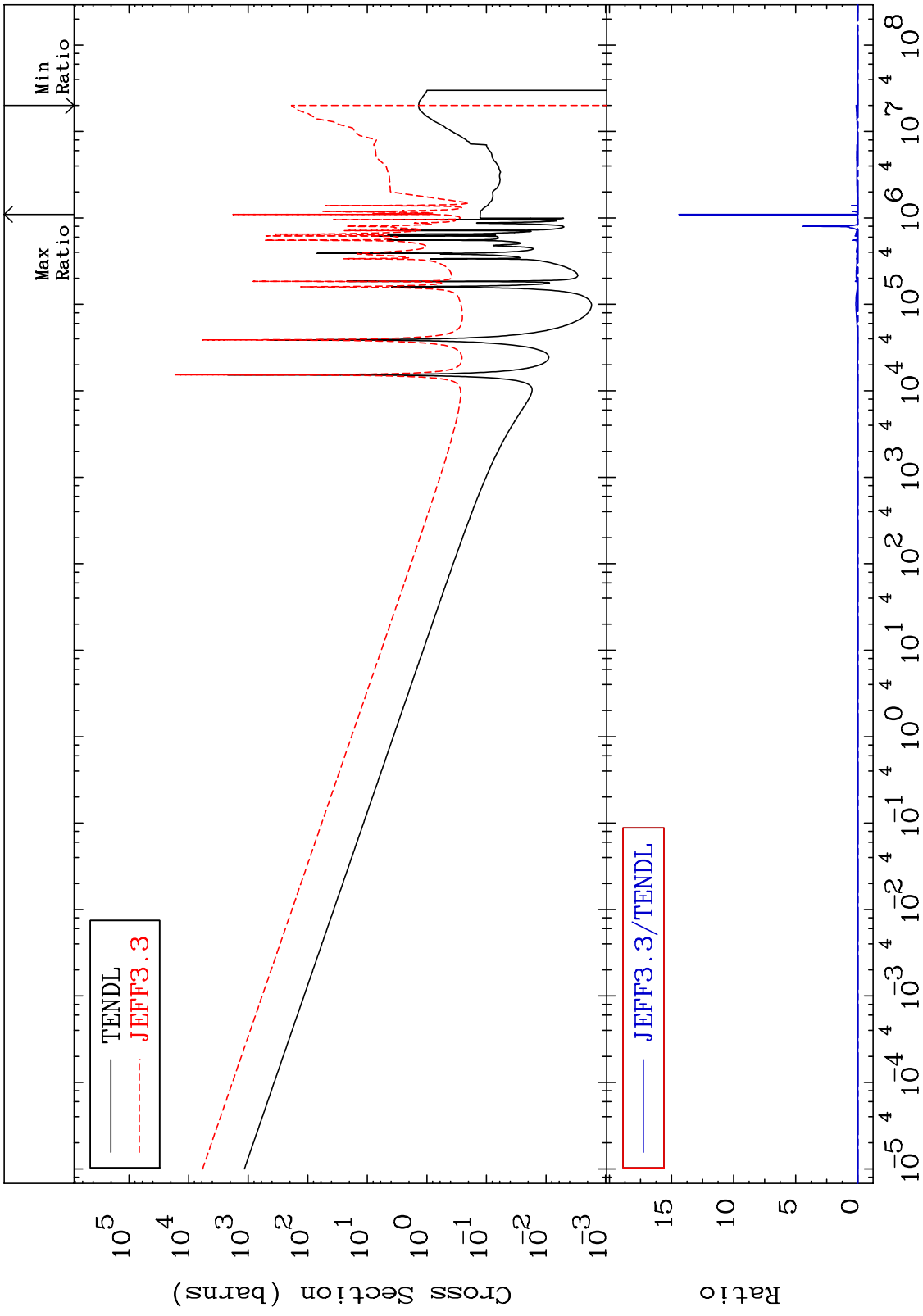




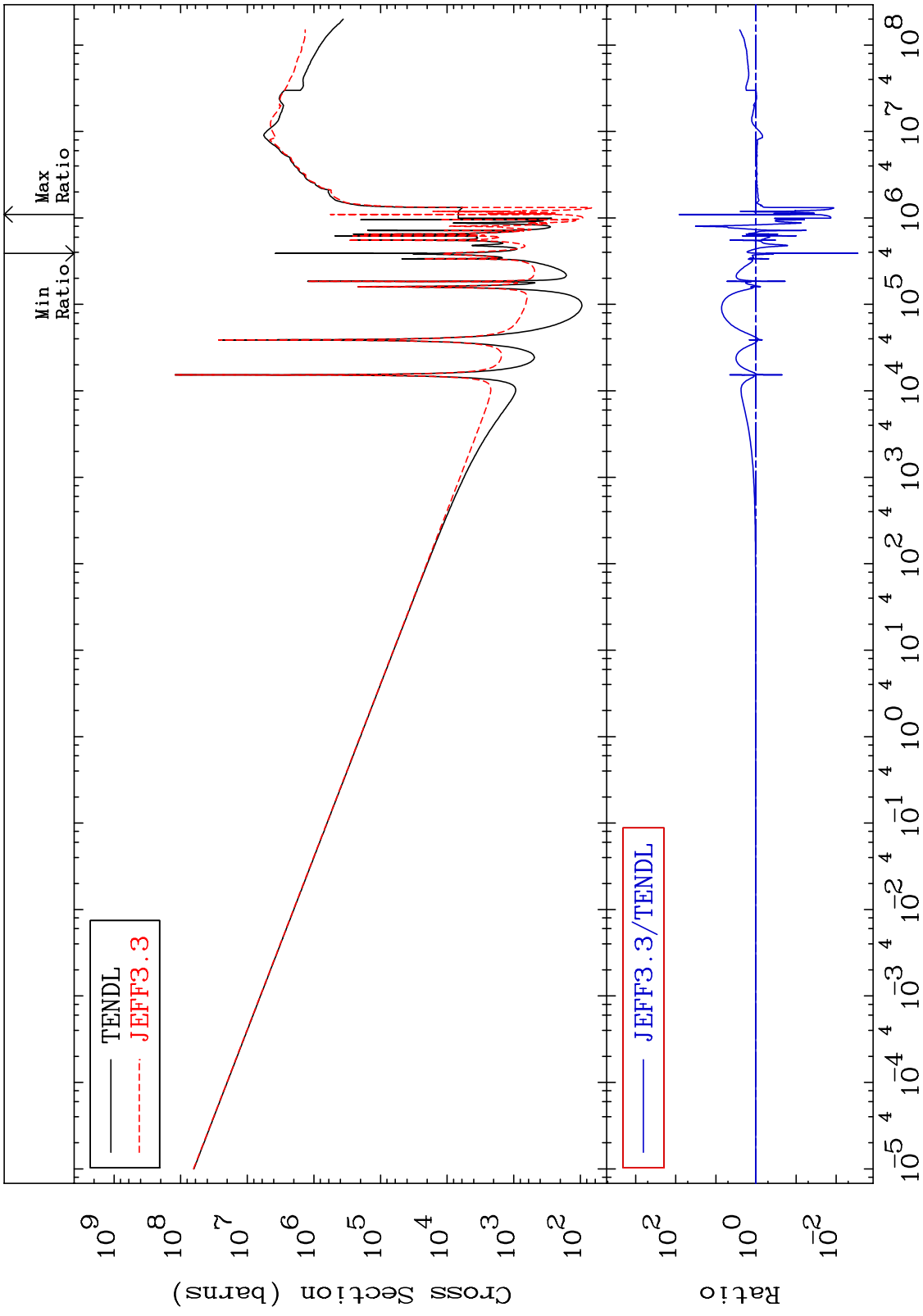
MAT 1428 Kerma fission (mt18 or mt19-20-21-38) 14-Si-29
 Cross Section -100.0 To 9999. %



MAT 1428 Kerma capture (mt102) 14-Si-29
 Cross Section -100.0 To 9999. %

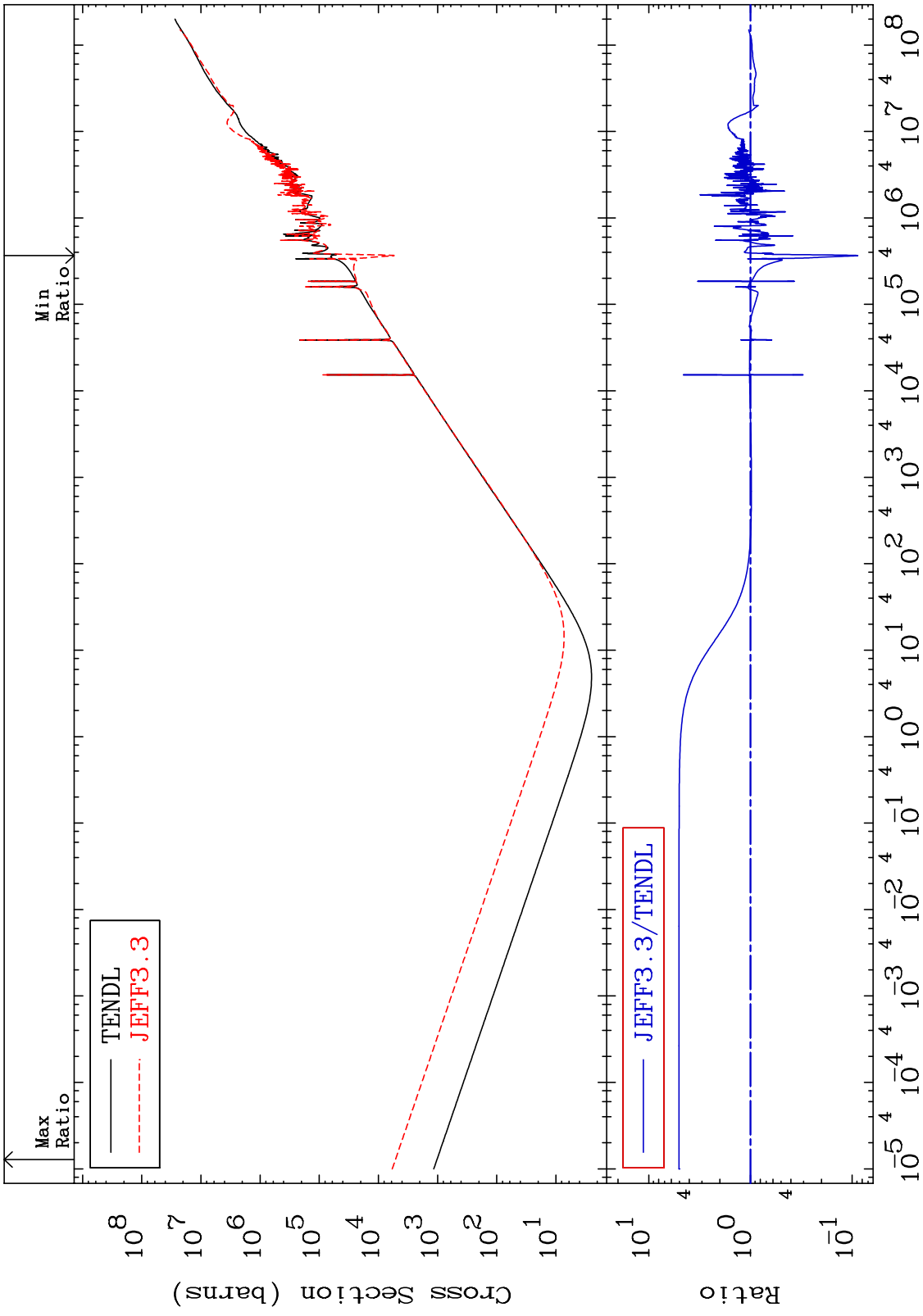


MAT 1428 14-Si-29
 Total photon (eV-barns)
 Cross Section -99.71 To 8177. %

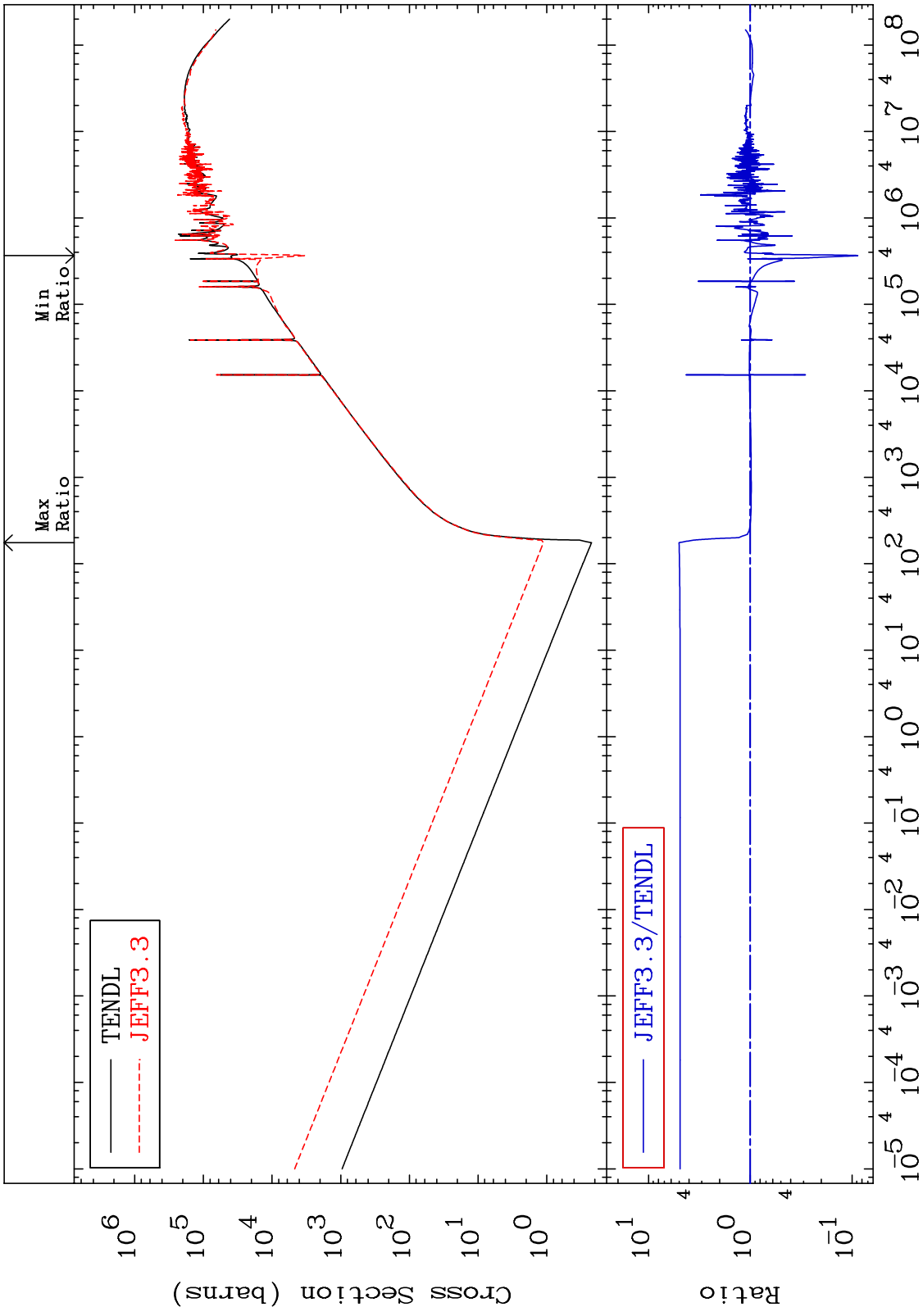


Incident Energy (eV) 14-Si-29

MAT 1428 Total kinematic kerma (high limit) Cross Section 14-Si-29
 -91.19 To 403.3 %



MAT 1428 14-Si-29
 Dpa total (eV-barns) -91.24 To 401.8 %
 Cross Section

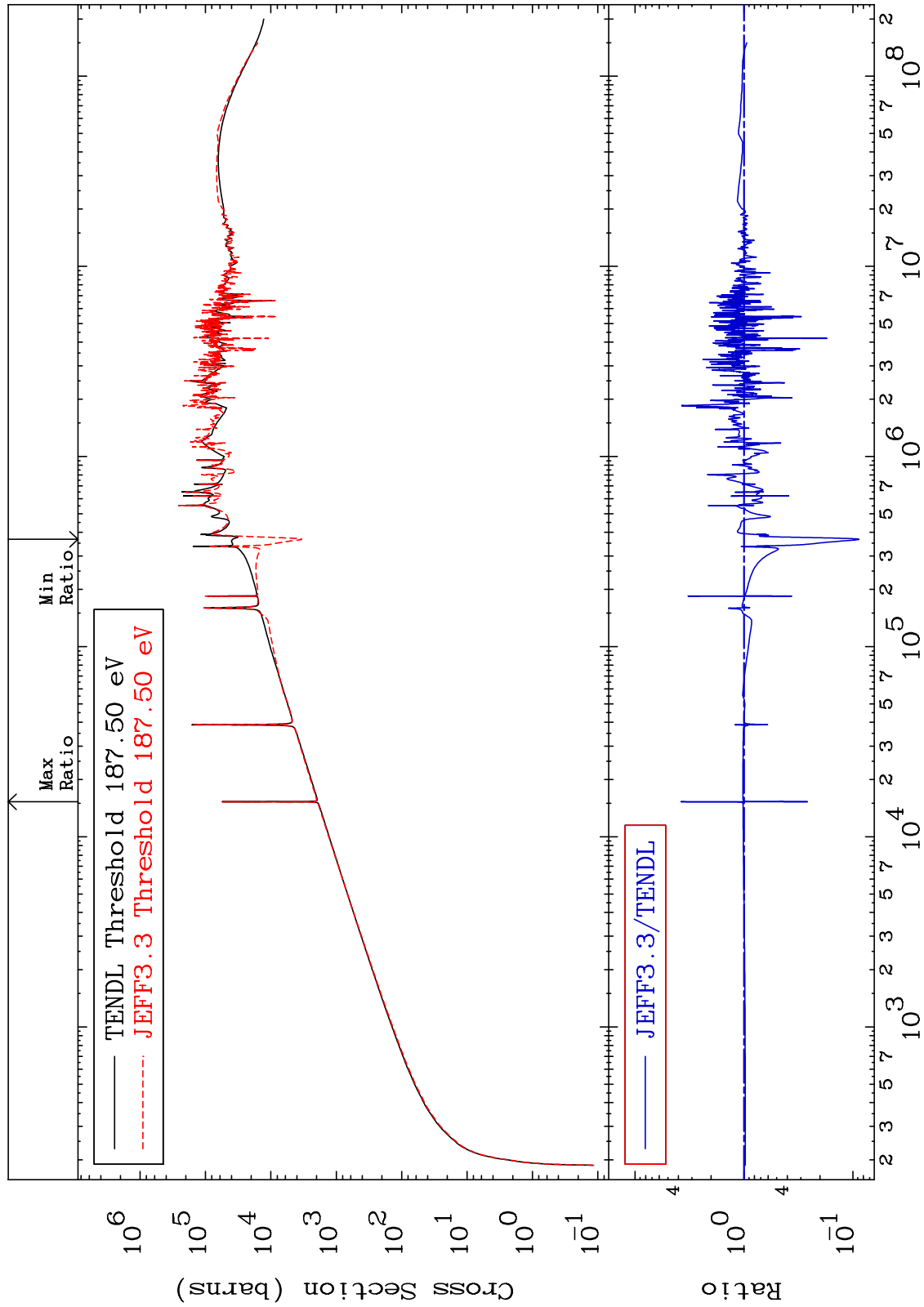


Incident Energy (eV) 14-Si-29

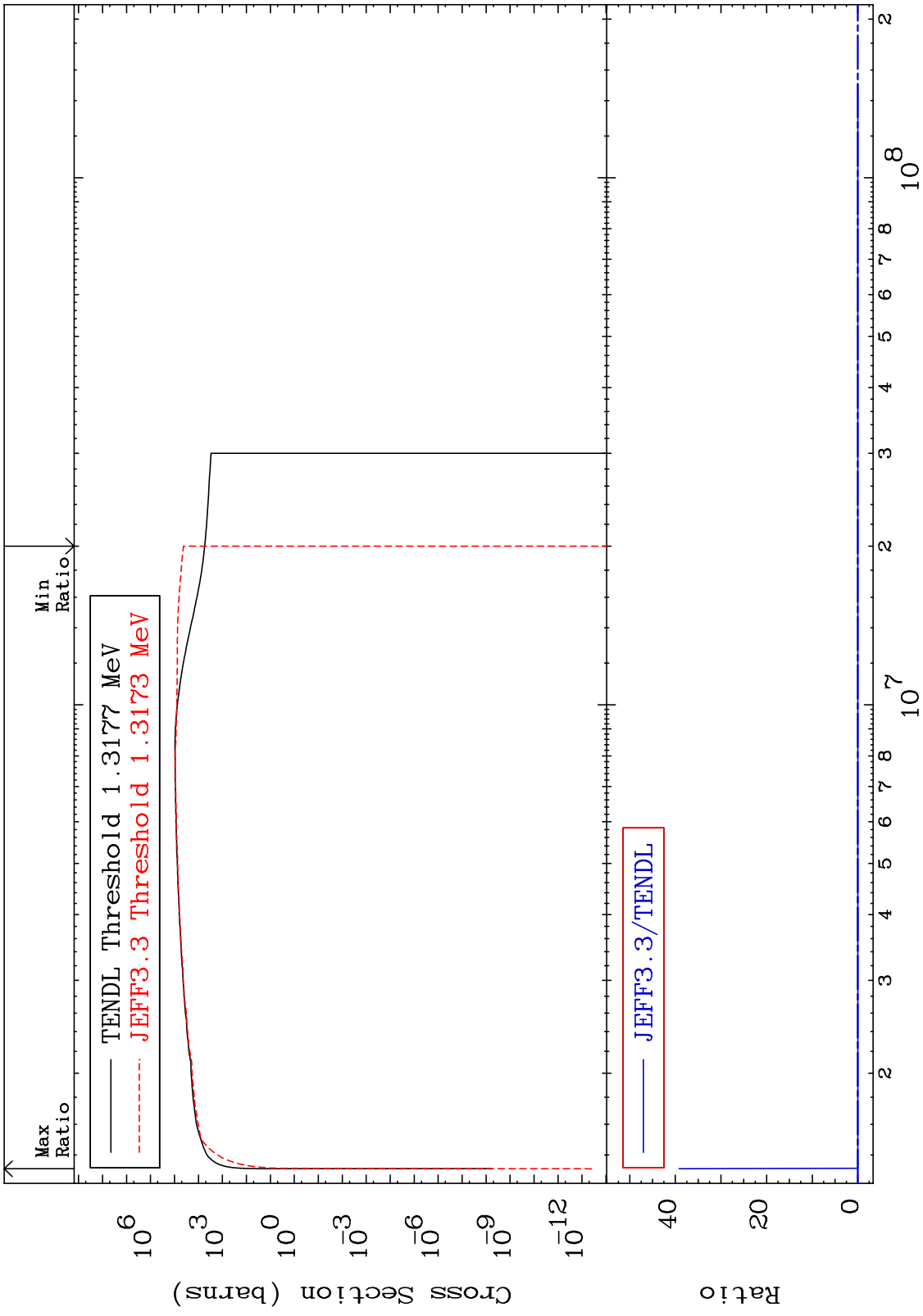
MAT 1428

Dpa elastic (mt2)
Cross Section

14-Si-29
-91.24 To 279.8 %



MAT 1428 Dpa inelastic (mt51-91) 14-Si-29
 Cross Section -100.0 To 9999. %



40 Incident Energy (eV) 14-Si-29

MAT 1428 Dpa disappearance (mt102 -120) 14-Si-29
 Cross Section -100.0 To 9999. %

