

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

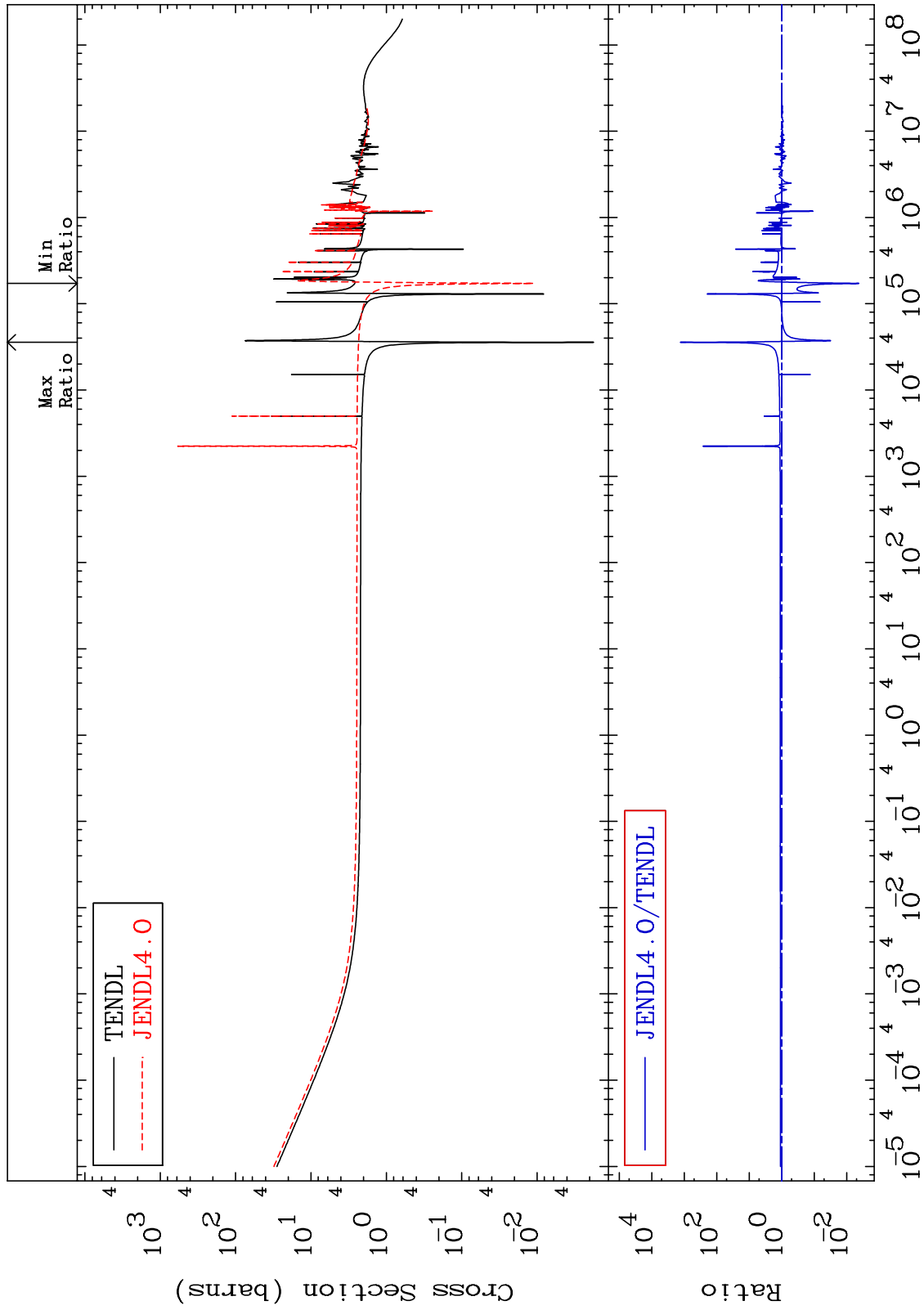
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 1431

Total
Cross Section

14-Si-30
-99.58 To 9999. %



1

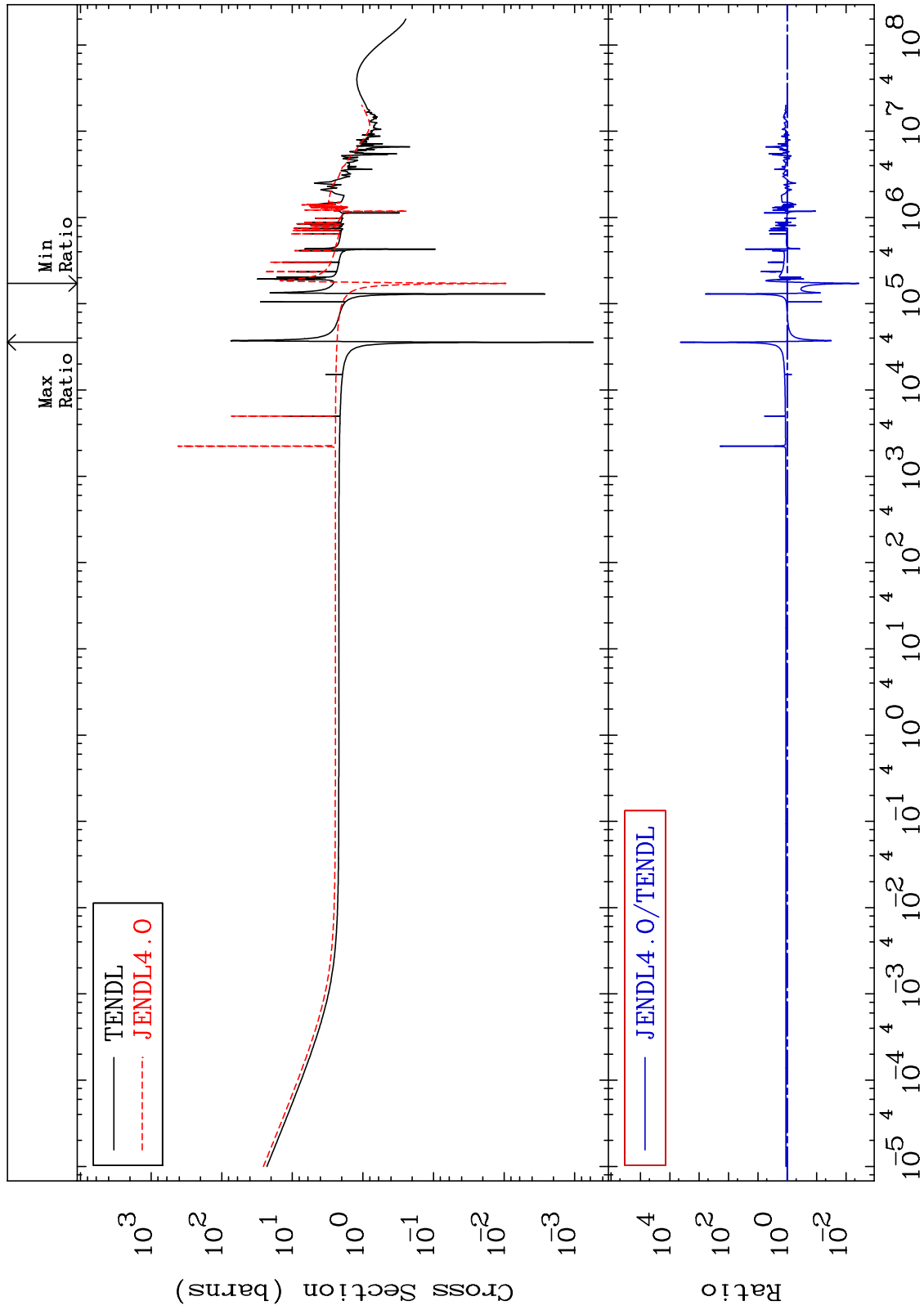
Incident Energy (eV)

14-Si-30

MAT 1431

Elastic
Cross Section

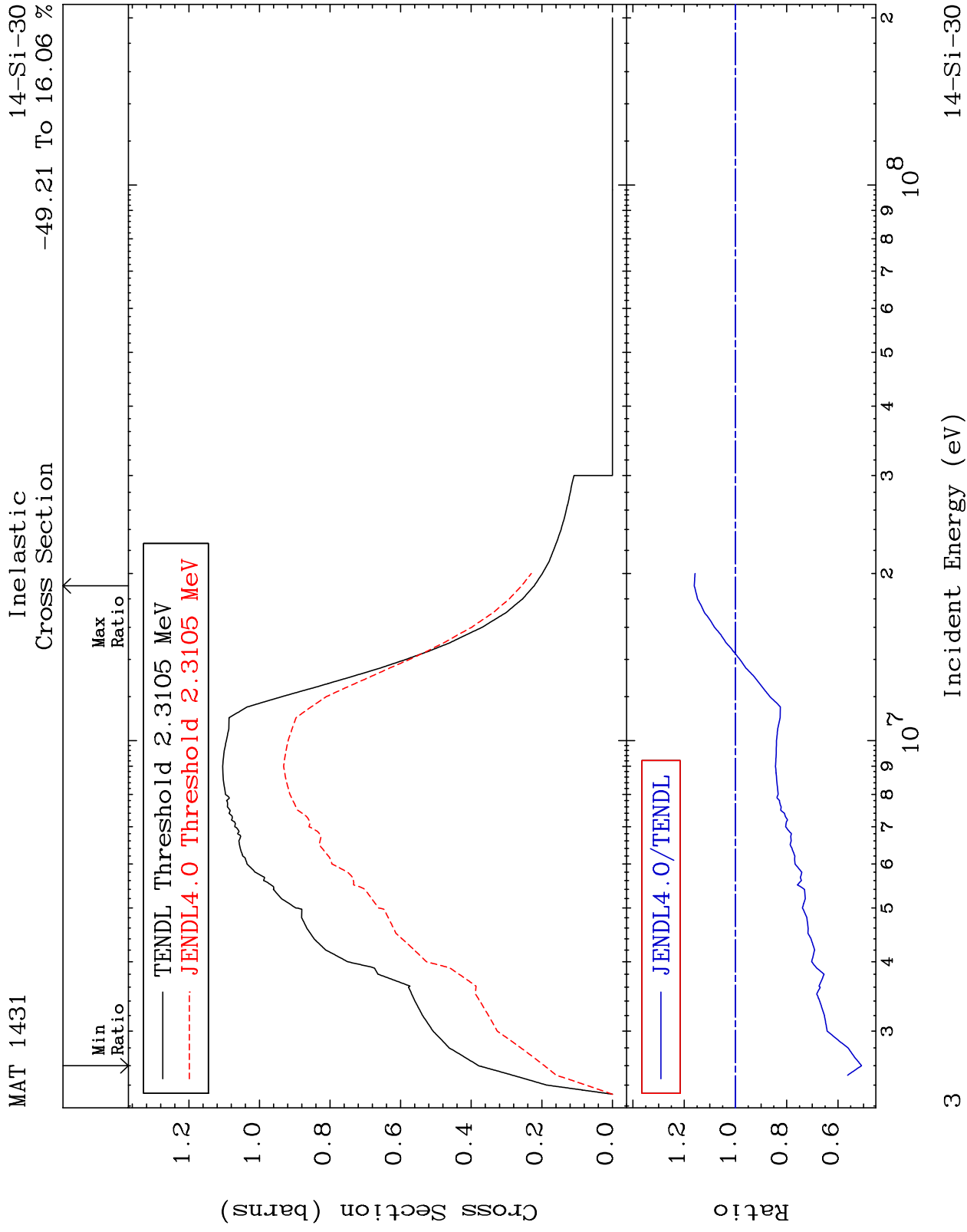
14-Si-30
-99.64 To 9999. %



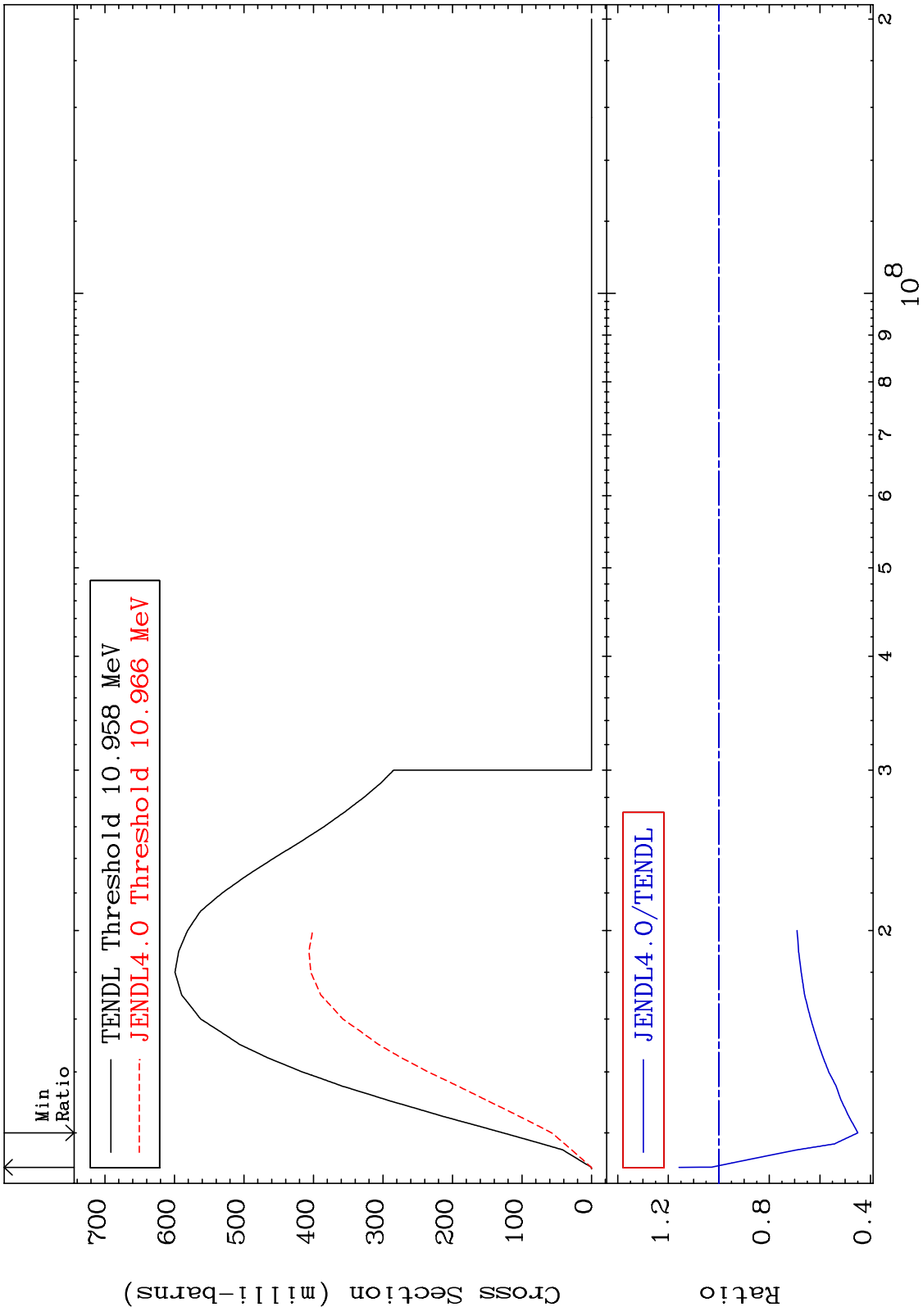
2

Incident Energy (eV)

14-Si-30



MAT 1431 (n,2n) 14-Si-30
 Cross Section -55.01 To 15.74 %



4 14-Si-30

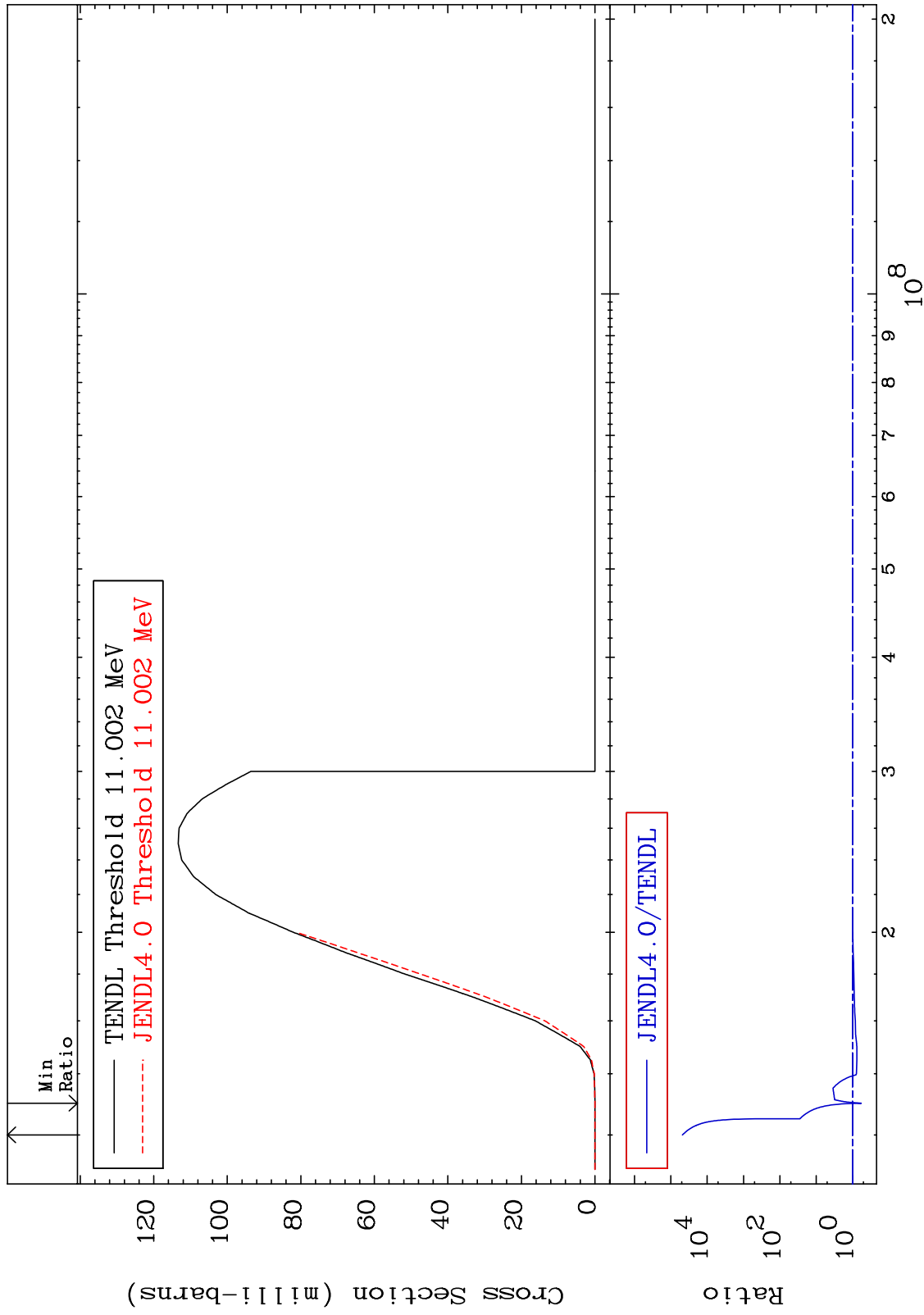
MAT 1431

(n,n') α

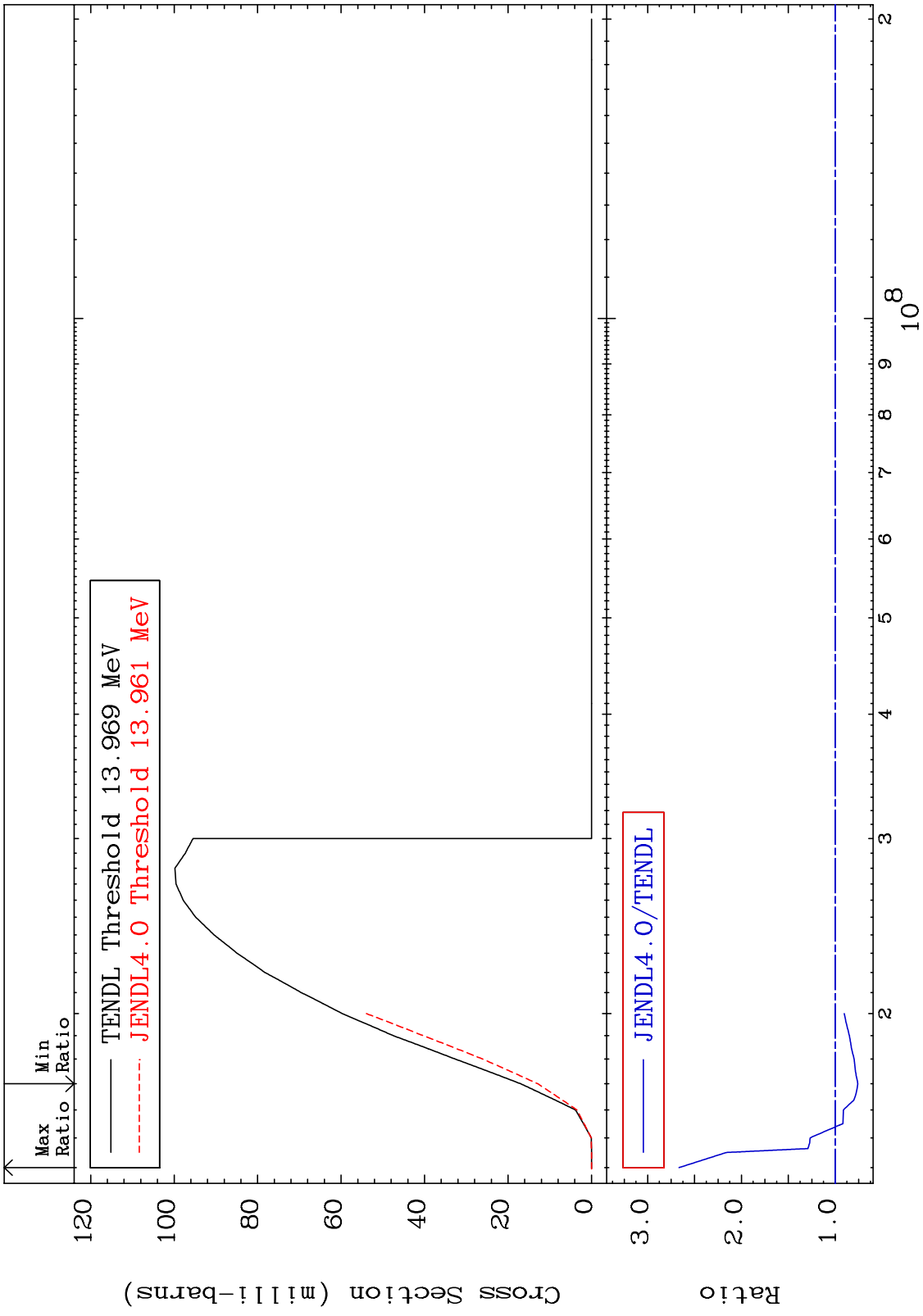
14-Si-30

Cross Section

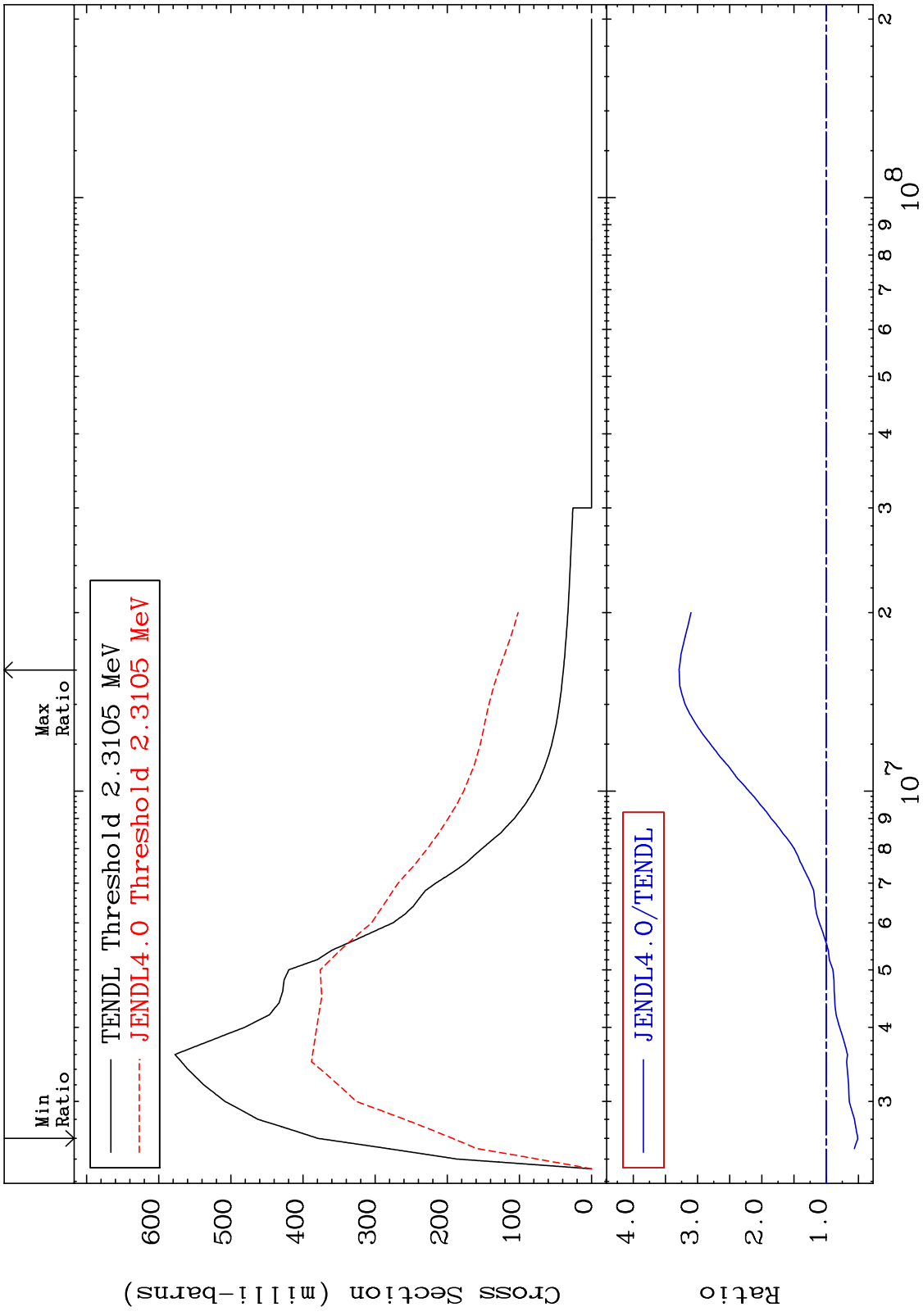
-42.75 To 9999. %



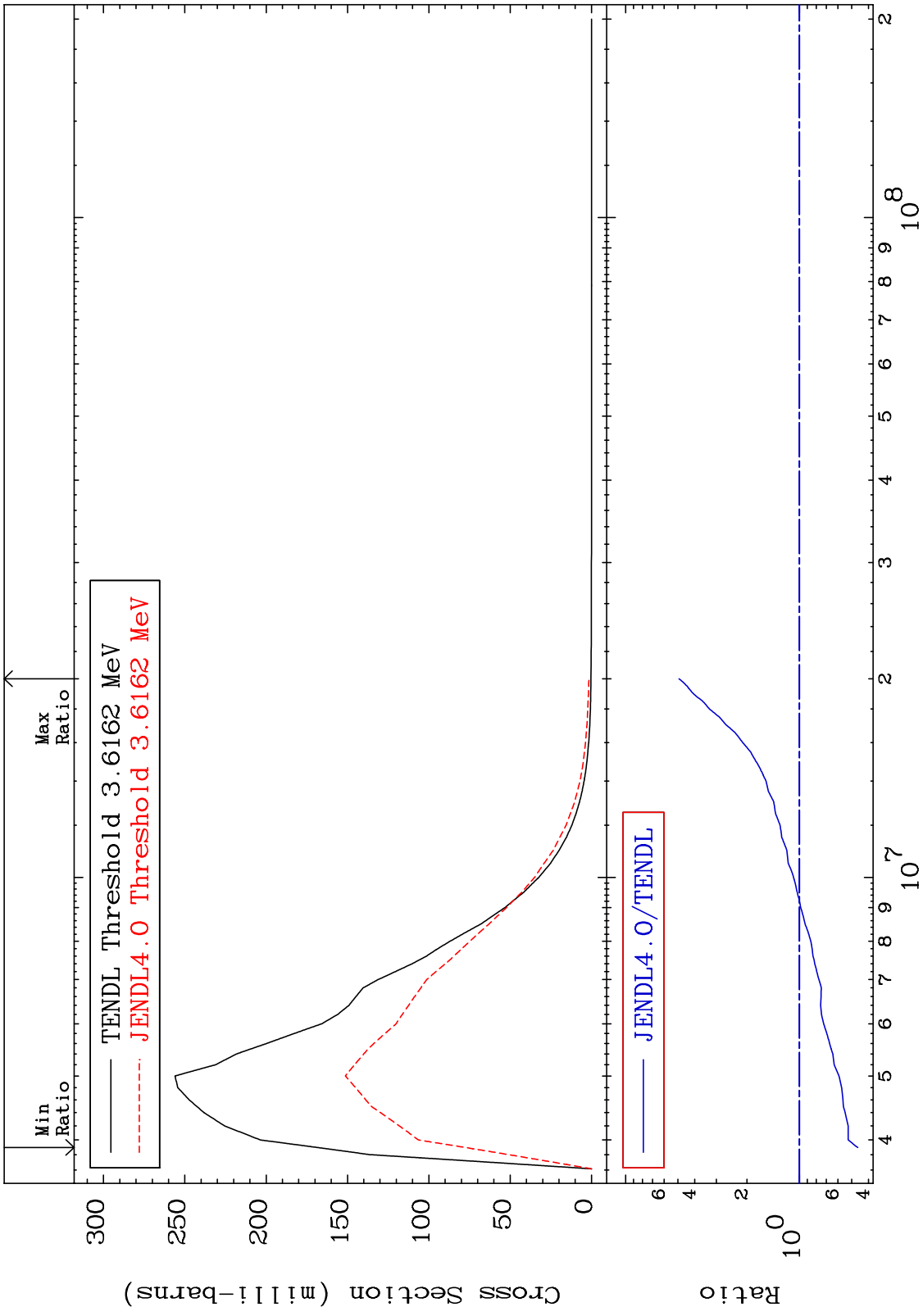
MAT 1431 (n,n') p 14-Si-30
 Cross Section -24.12 To 166.6 %



MAT 1431 MT= 51 (n,n') Level Cross Section 14-Si-30
 -49.21 To 228.9 %

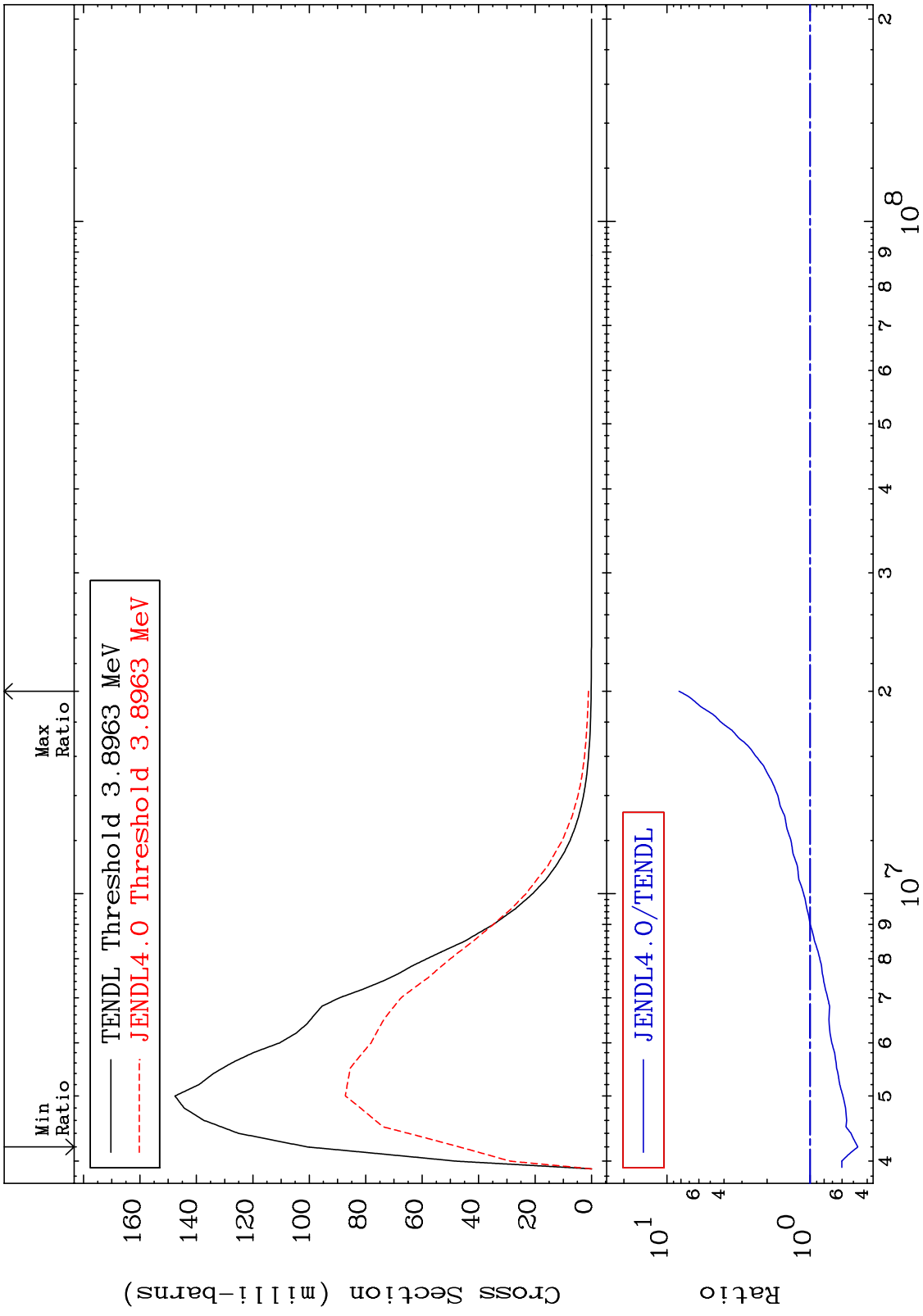


MAT 1431 MT= 52 (n,n') Level Cross Section 14-Si-30
 -53.95 To 392.6 %



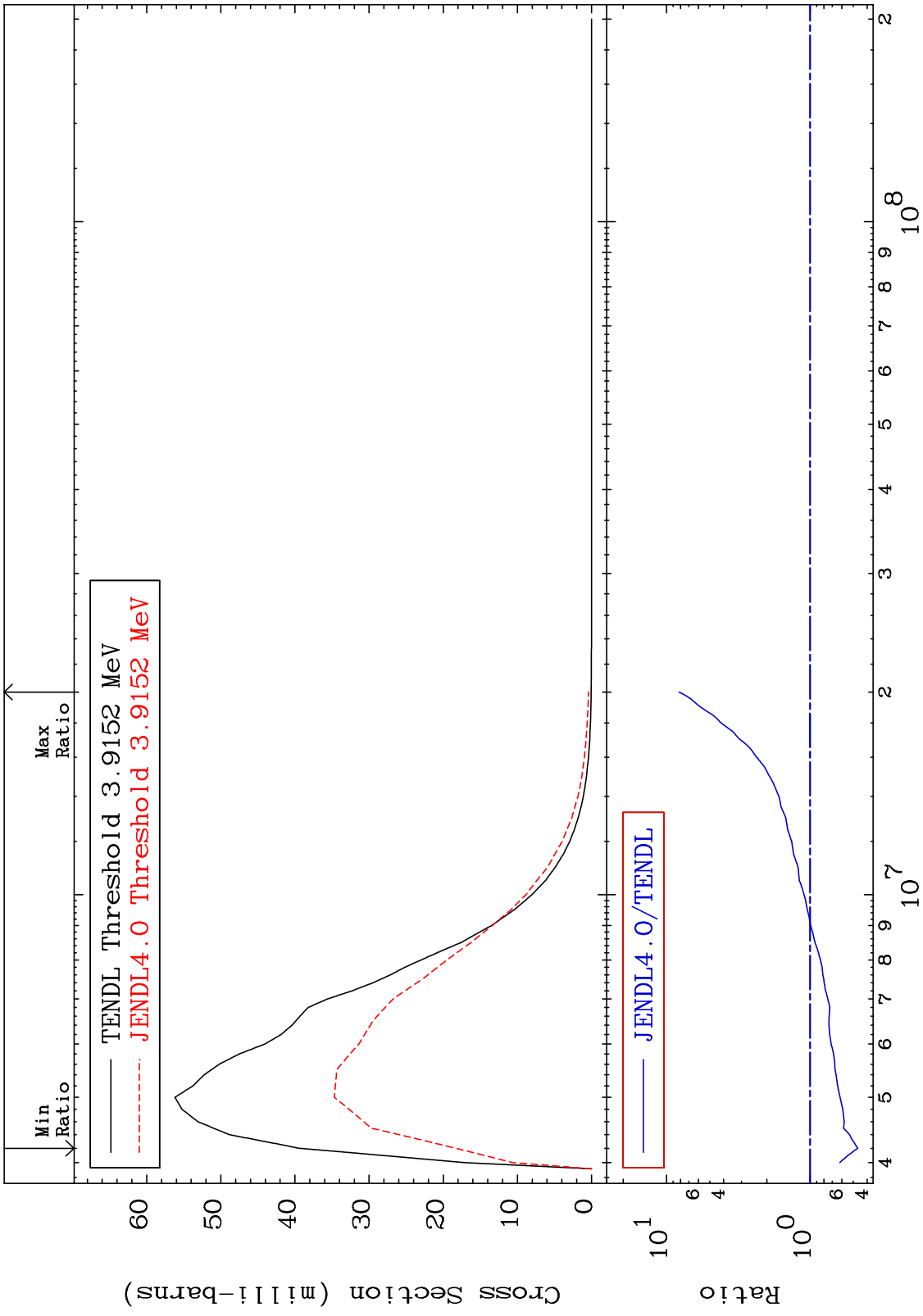
8 Incident Energy (eV) 14-Si-30

MAT 1431 MT= 53 (n,n') Level Cross Section 14-Si-30
 -53.49 To 724.7 %



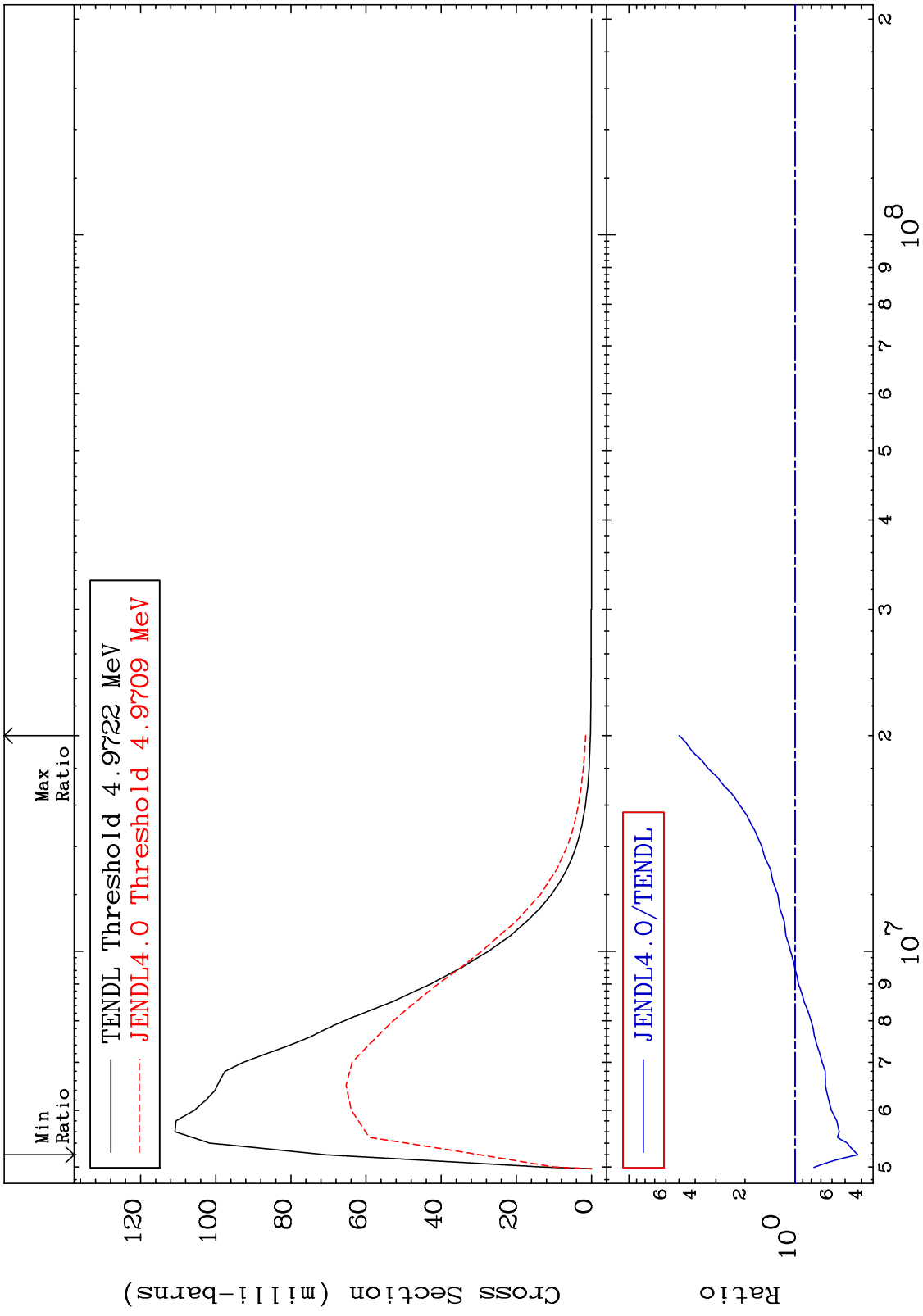
9 Incident Energy (eV) 14-Si-30

MAT 1431 MT= 54 (n,n') Level Cross Section 14-Si-30
 -53.54 To 718.0 %

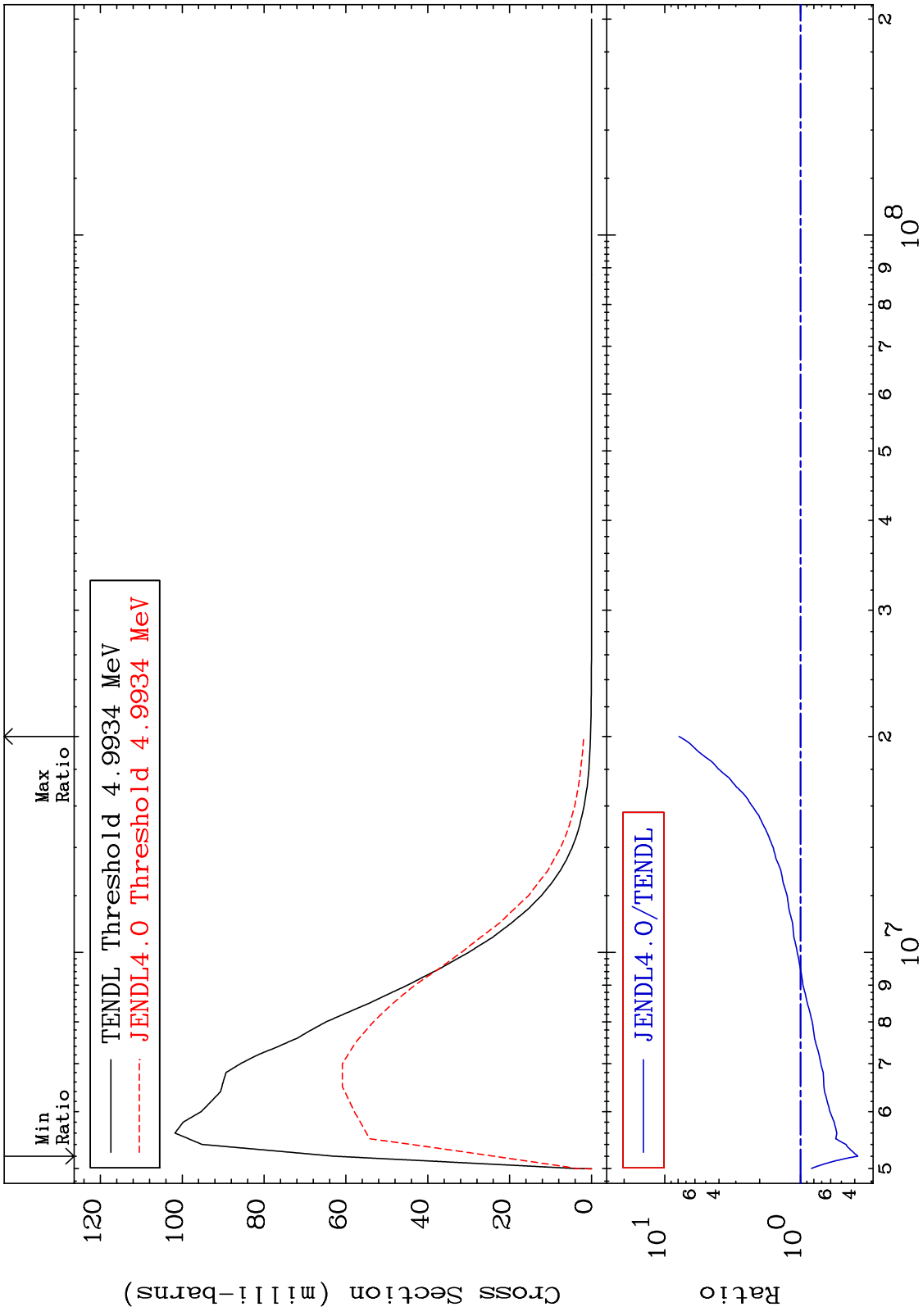


10 14-Si-30

MAT 1431 MT= 55 (n,n') Level Cross Section 14-Si-30
 -58.07 To 399.4 %



MAT 1431 MT= 56 (n,n') Level Cross Section 14-Si-30
 -62.12 To 686.3 %

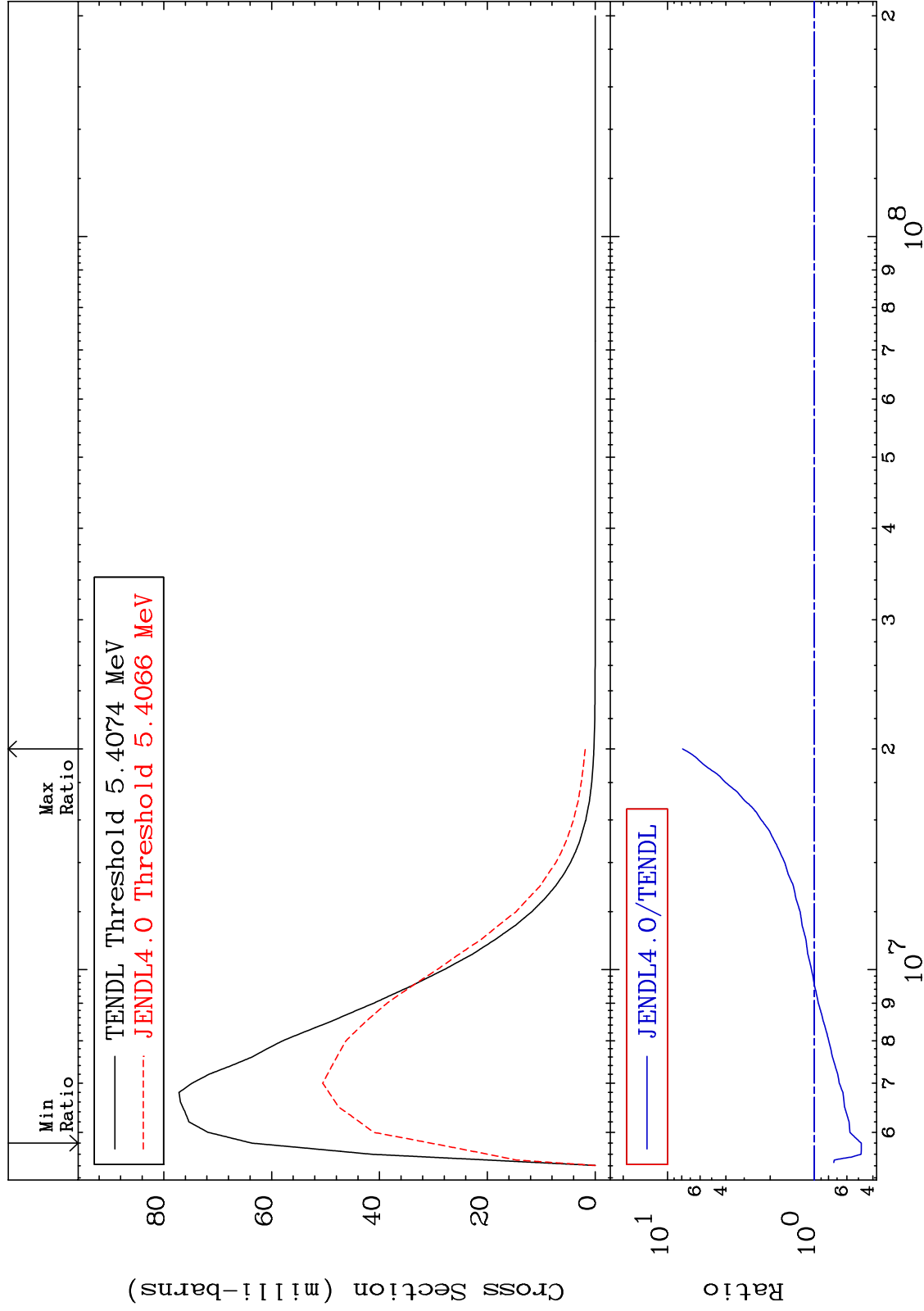


12 14-Si-30 Incident Energy (eV)

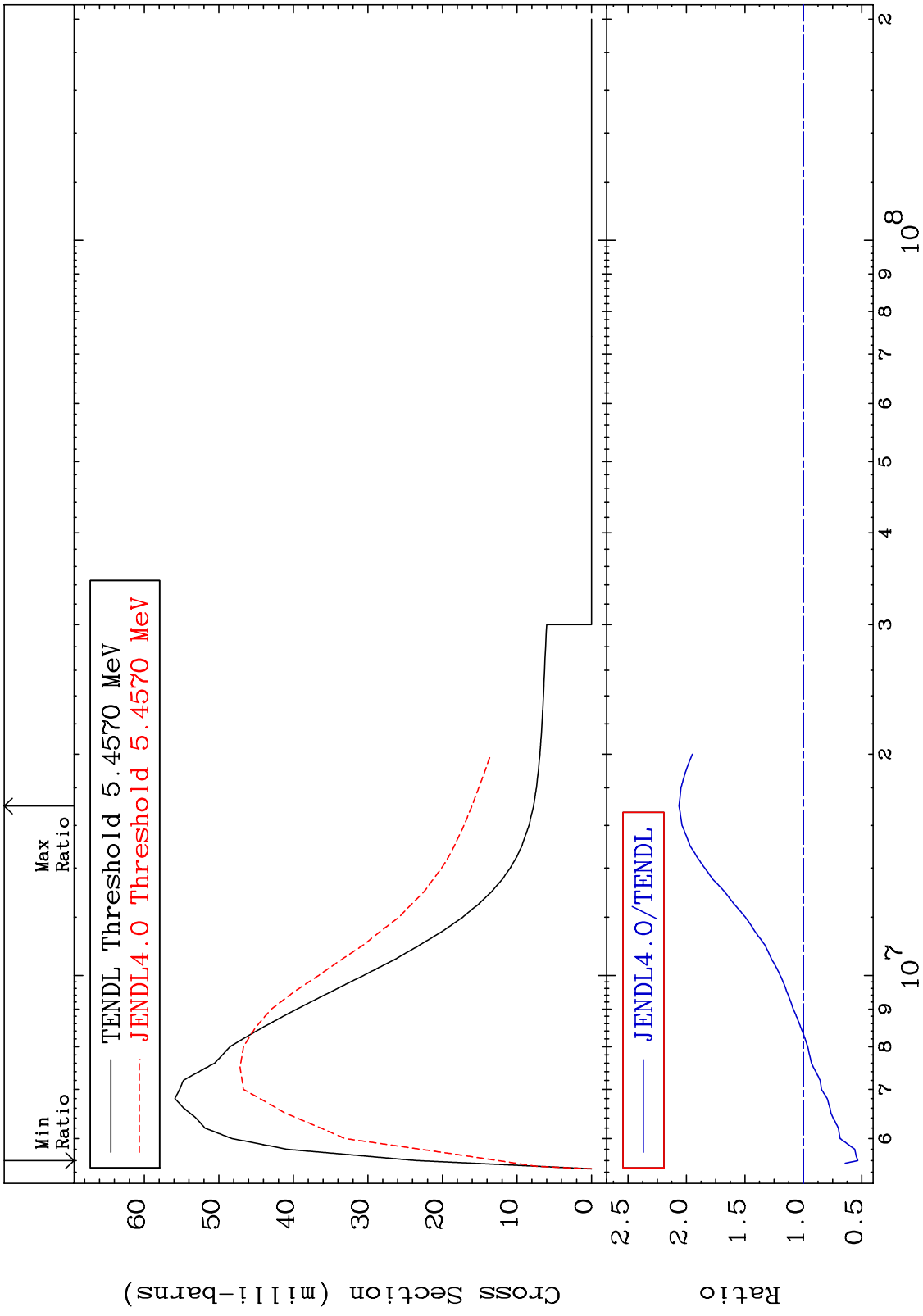
MAT 1431

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

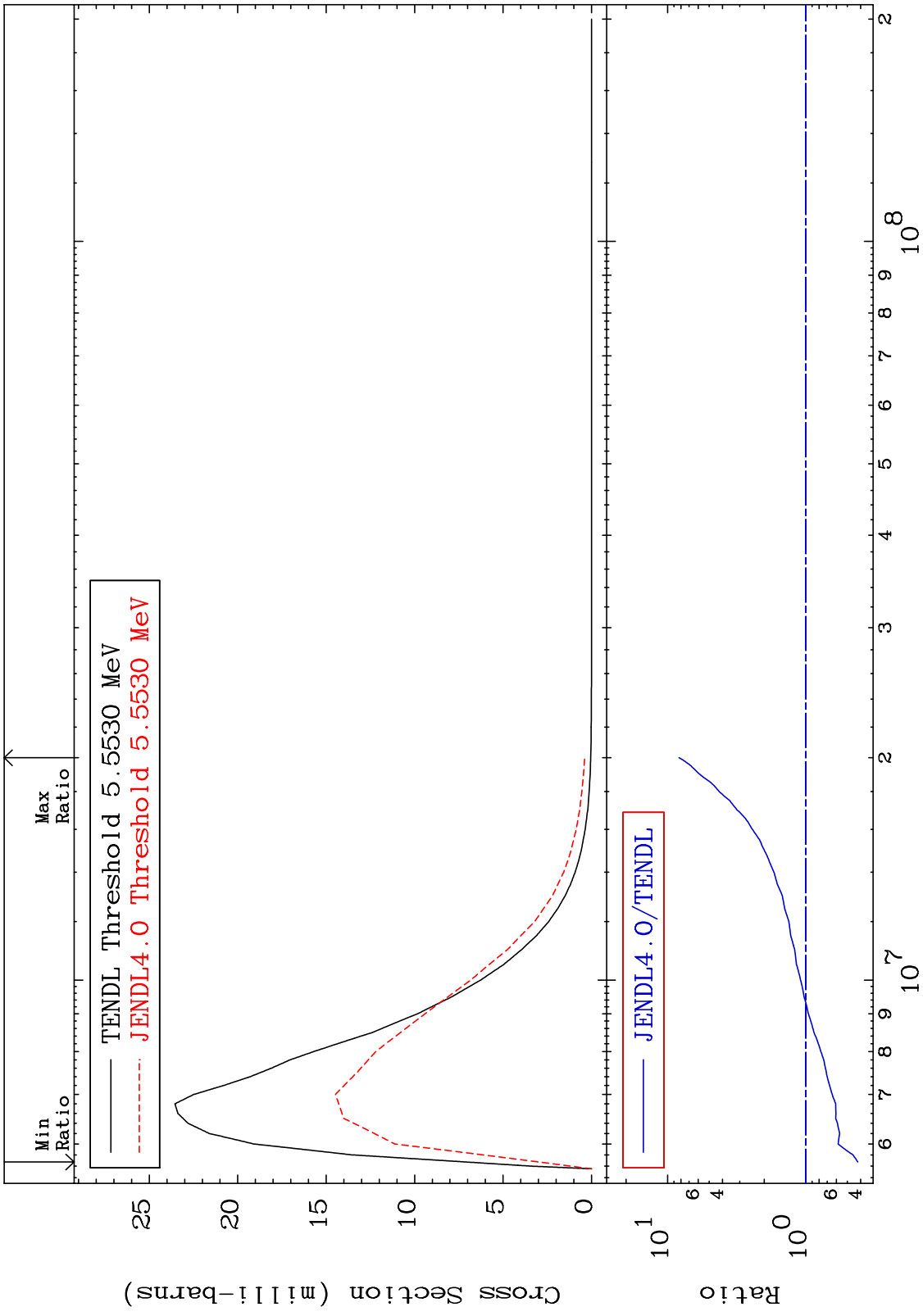
14-Si-30
-52.14 To 687.8 %



MAT 1431 MT= 58 (n,n') Level Cross Section 14-Si-30
 -46.64 To 106.3 %



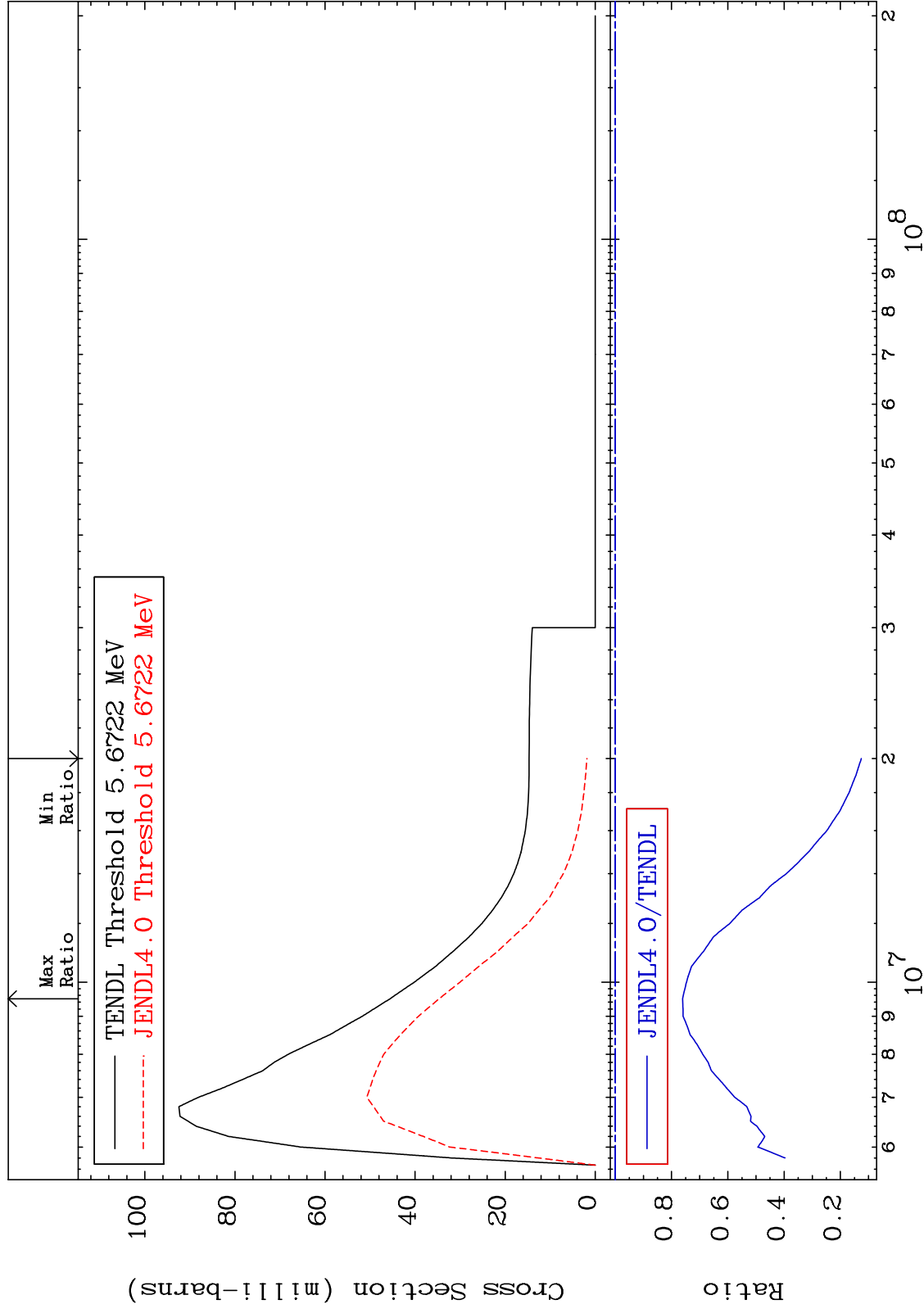
MAT 1431 MT= 59 (n,n') Level Cross Section 14-Si-30
 -58.07 To 726.1 %



MAT 1431

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

14-Si-30
-87.44 To -23.95%

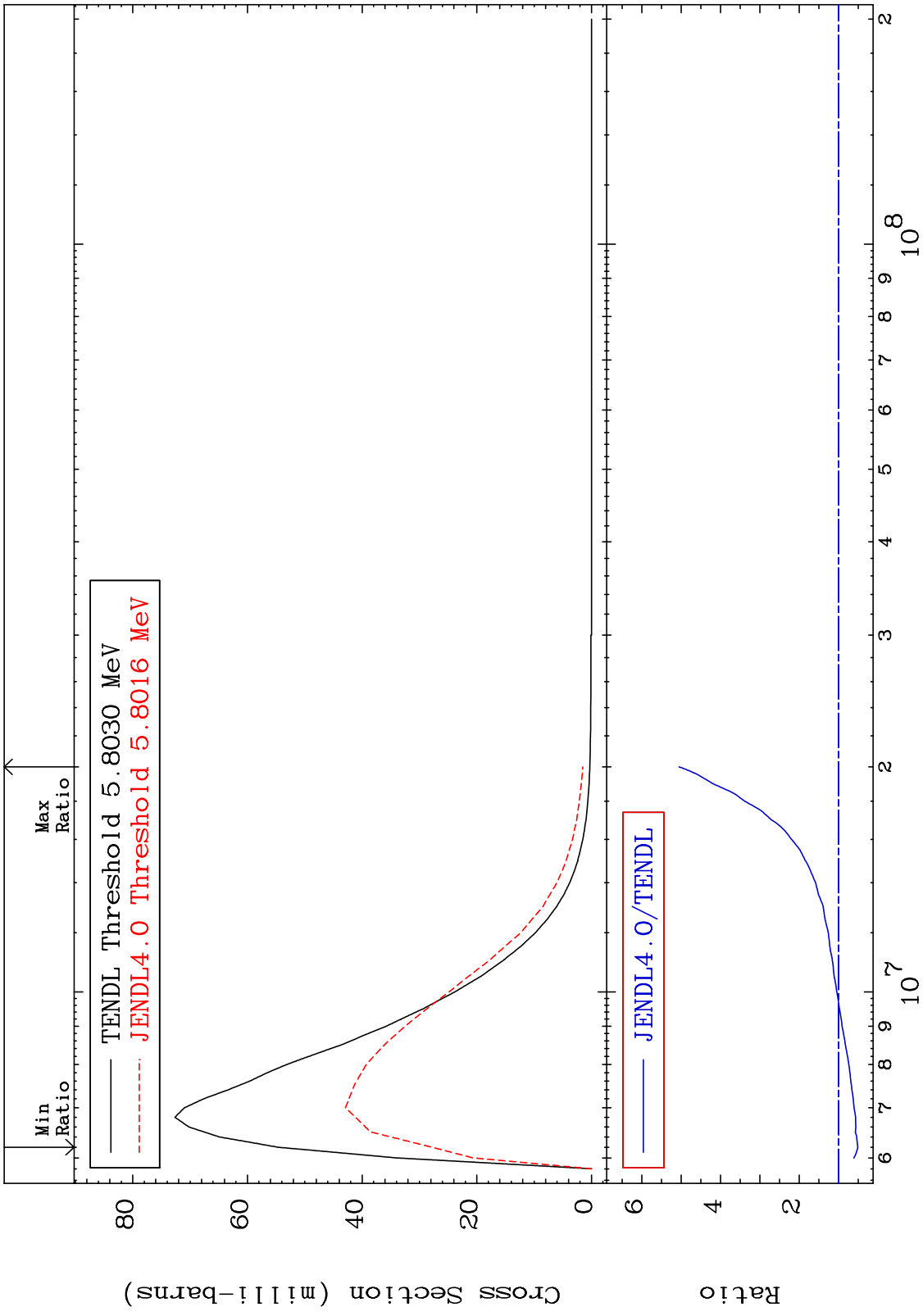


16

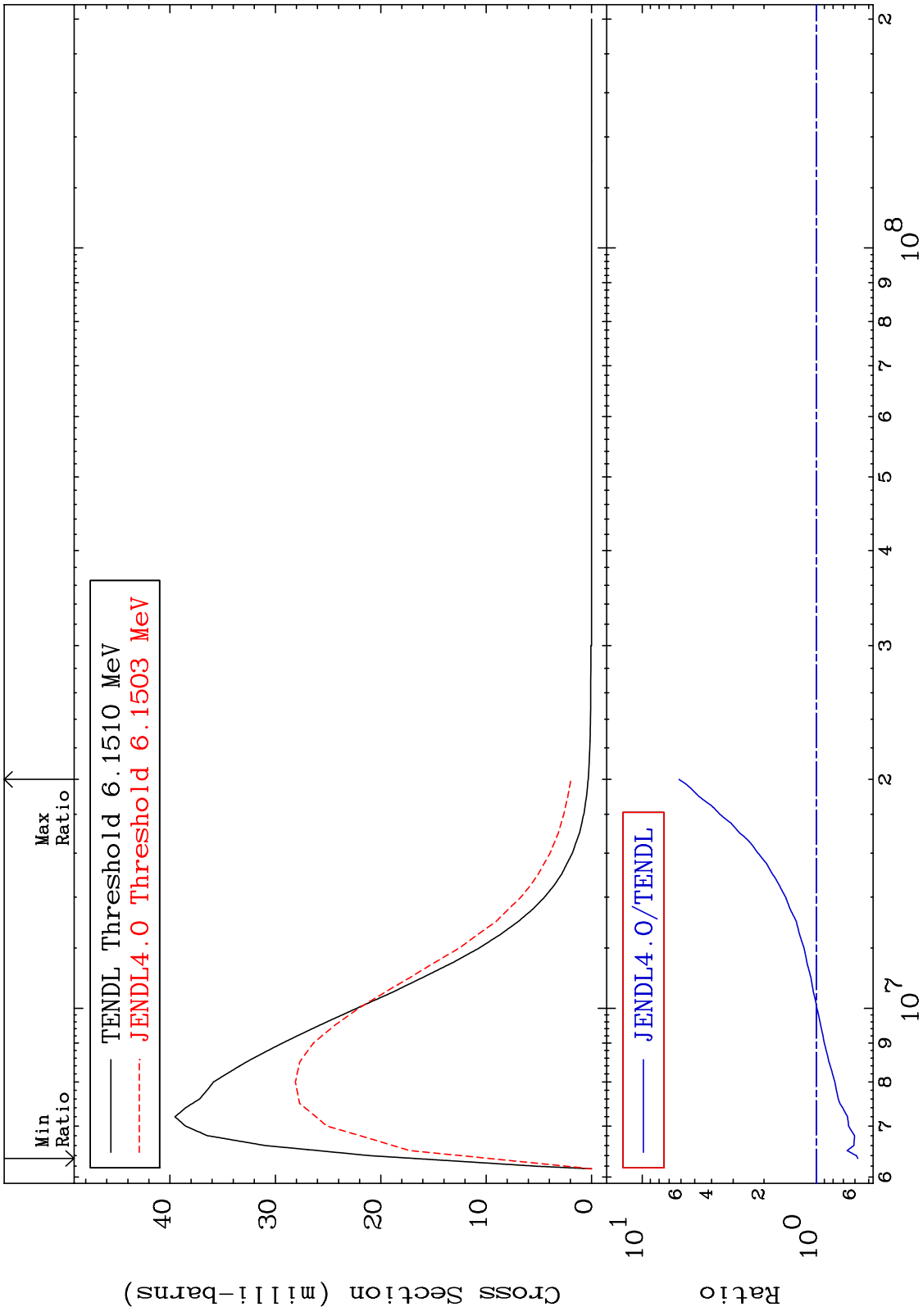
Incident Energy (eV)

14-Si-30

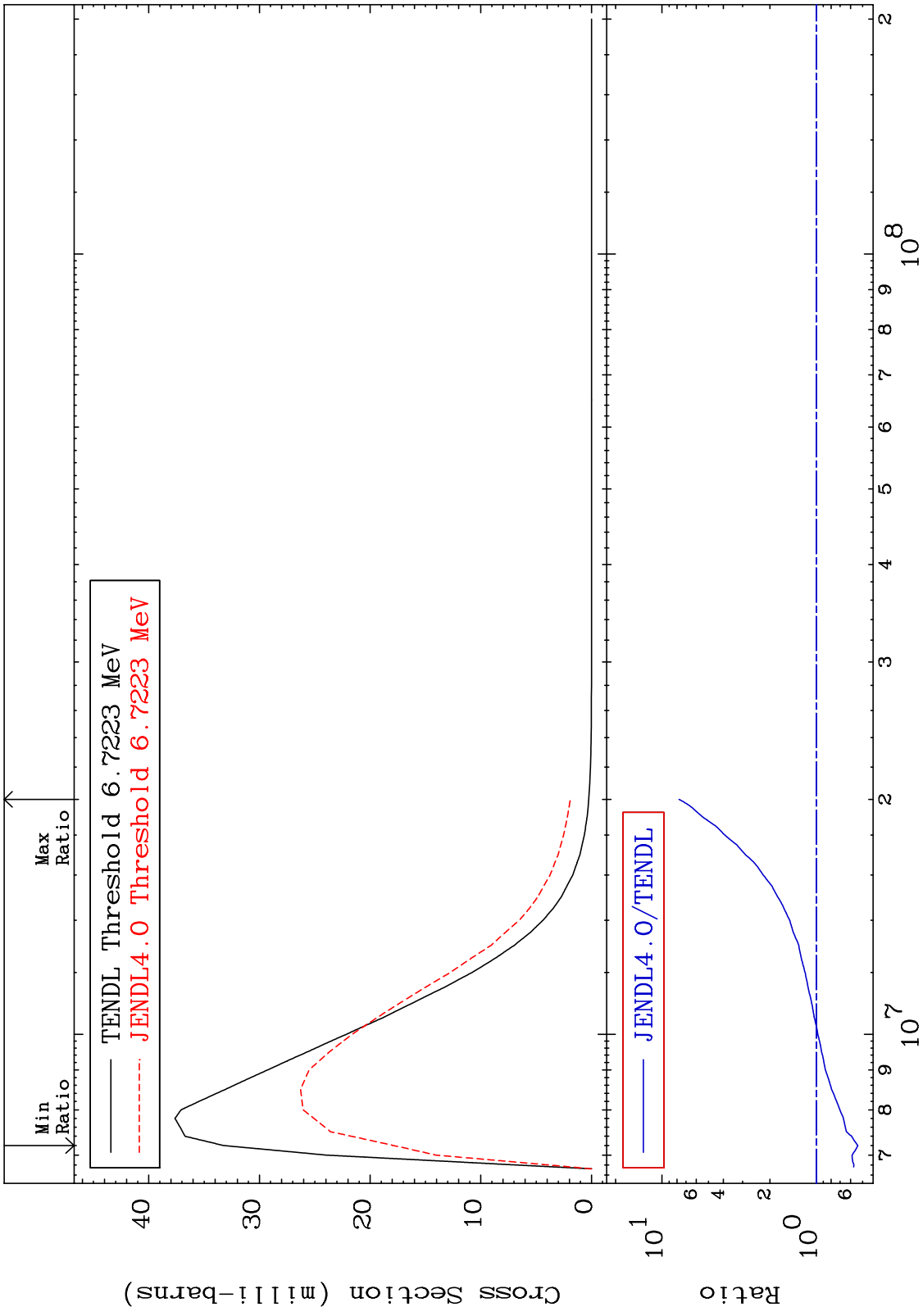
MAT 1431 MT= 61 (n,n') Level Cross Section 14-Si-30
 -49.09 To 405.5 %



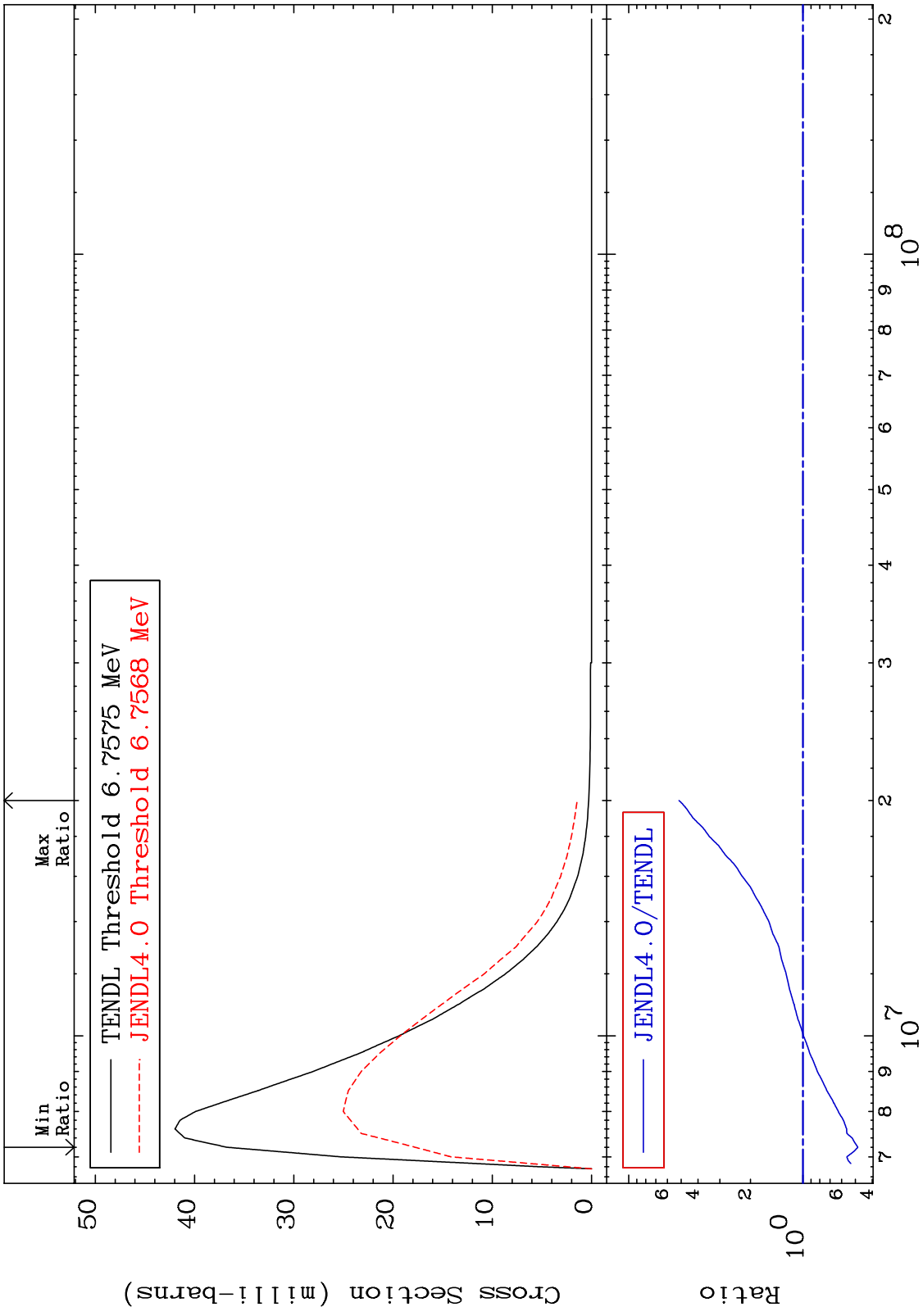
MAT 1431 MT= 62 (n,n') Level Cross Section 14-Si-30
 -42.28 To 514.8 %



MAT 1431 MT= 63 (n,n') Level Cross Section 14-Si-30
 -46.25 To 675.3 %

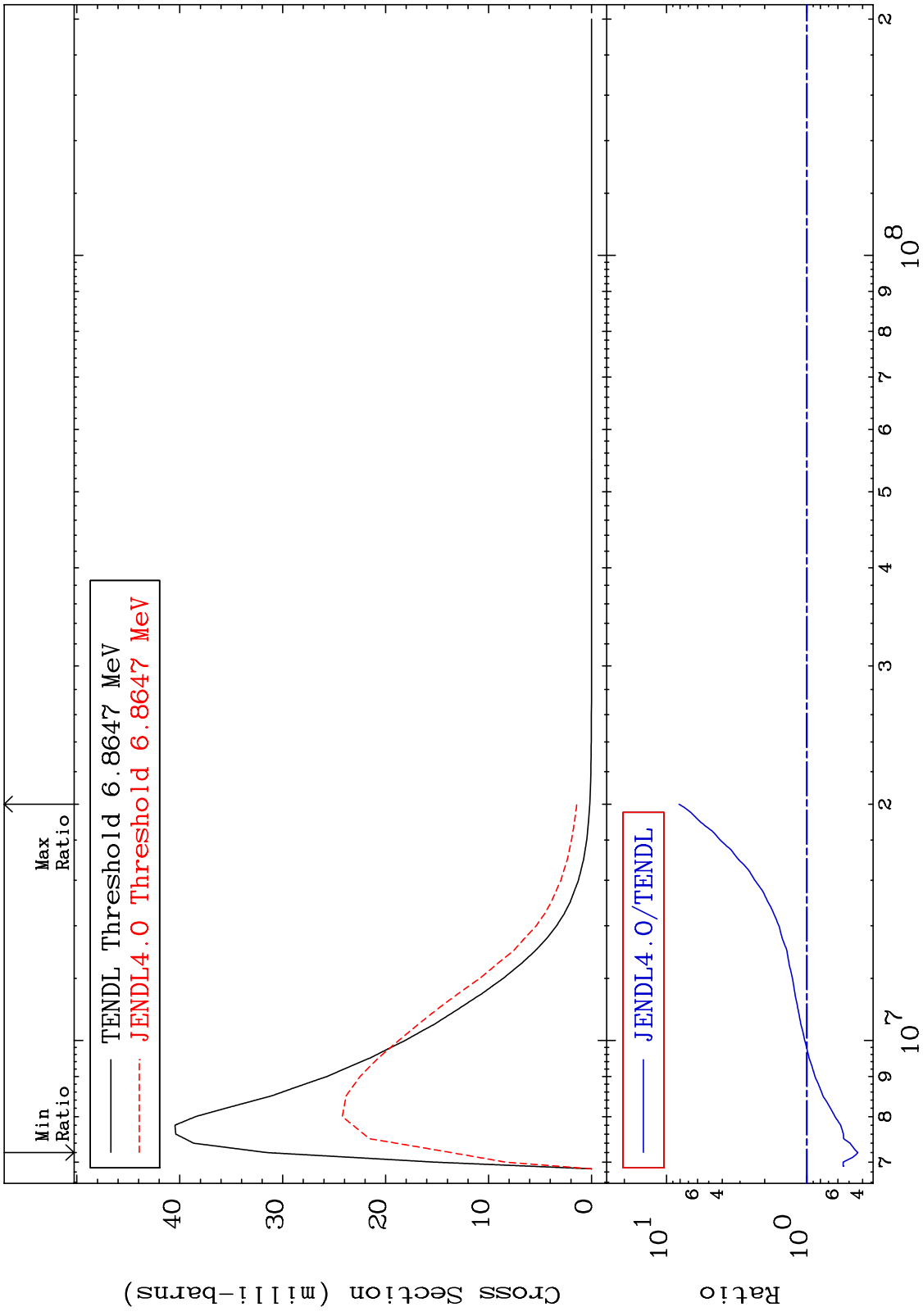


MAT 1431 MT= 64 (n,n') Level Cross Section 14-Si-30
 -51.61 To 414.6 %



20 14-Si-30

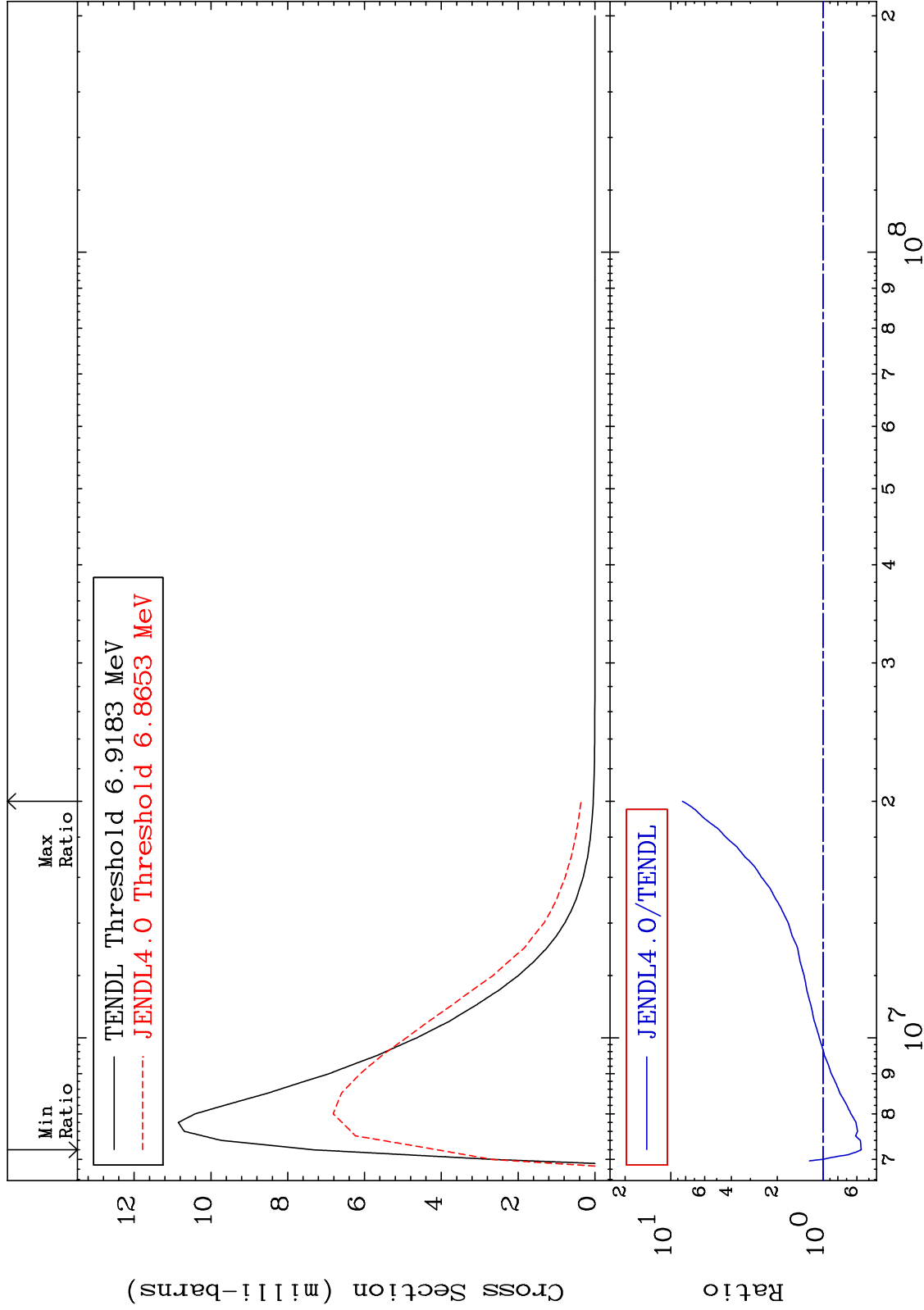
MAT 1431 MT= 65 (n,n') Level Cross Section 14-Si-30
 -56.77 To 714.5 %



MAT 1431

MT= 66 (n,n') Level
Cross Section

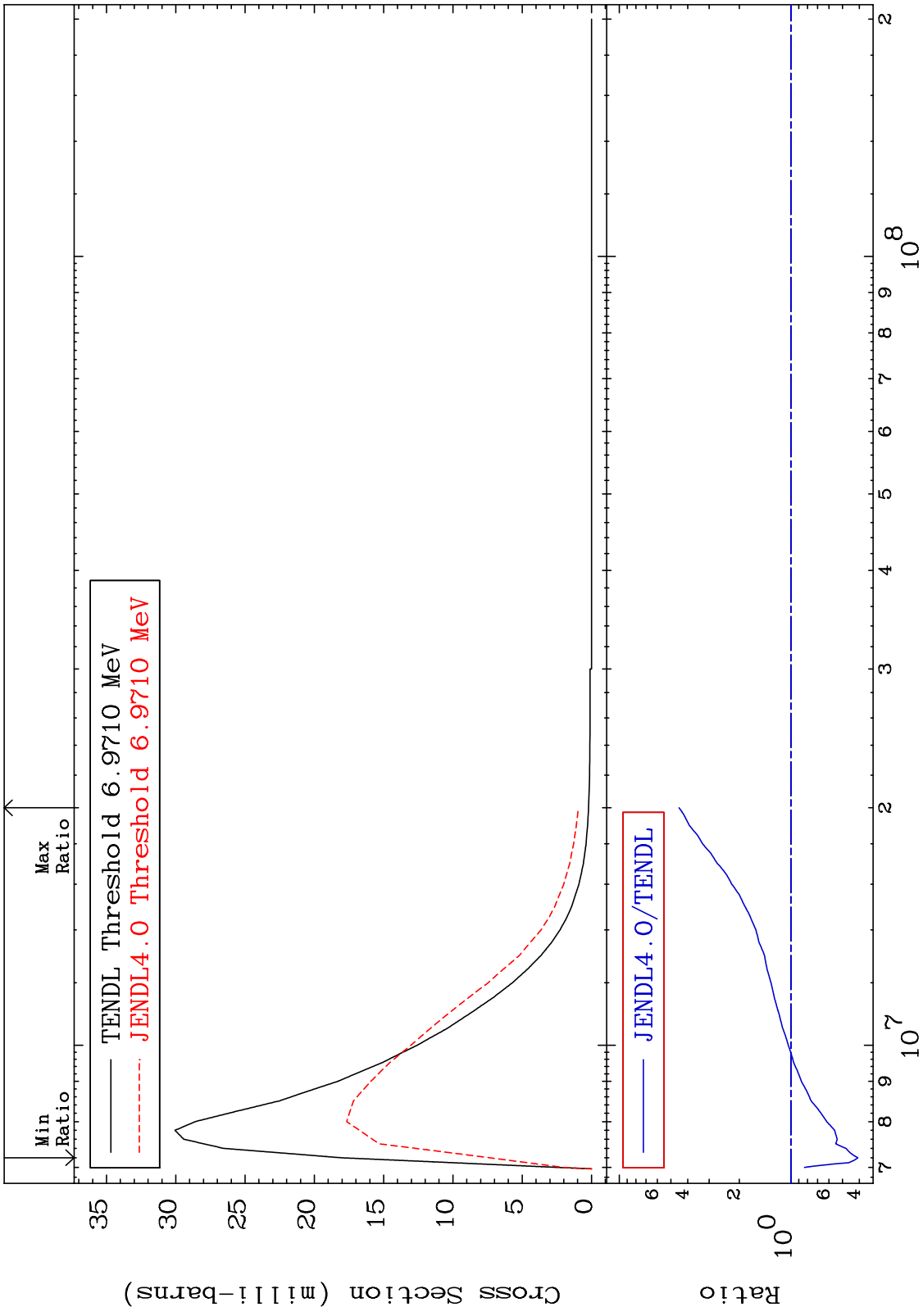
14-Si-30
-43.97 To 739.0 %



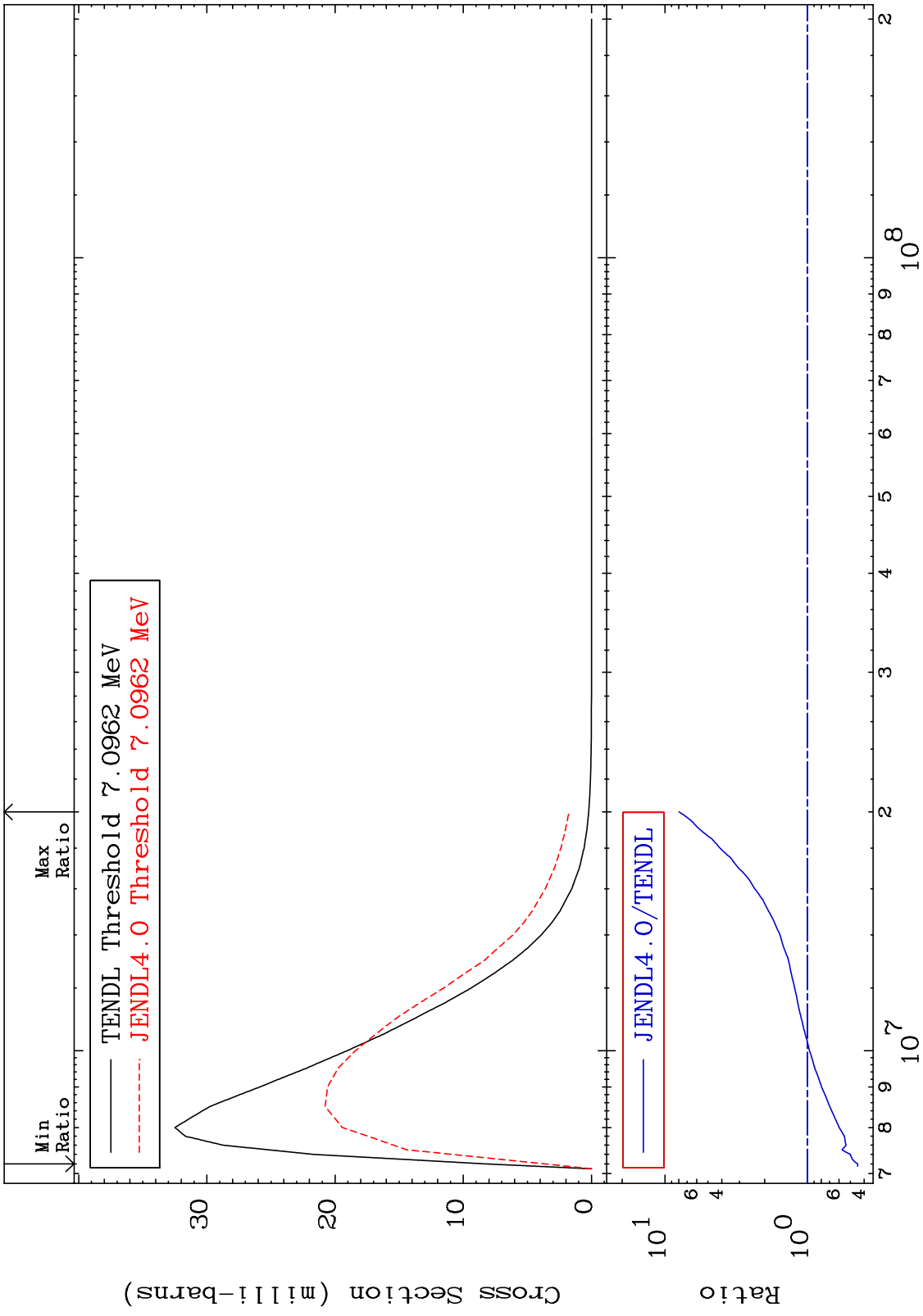
22

14-Si-30

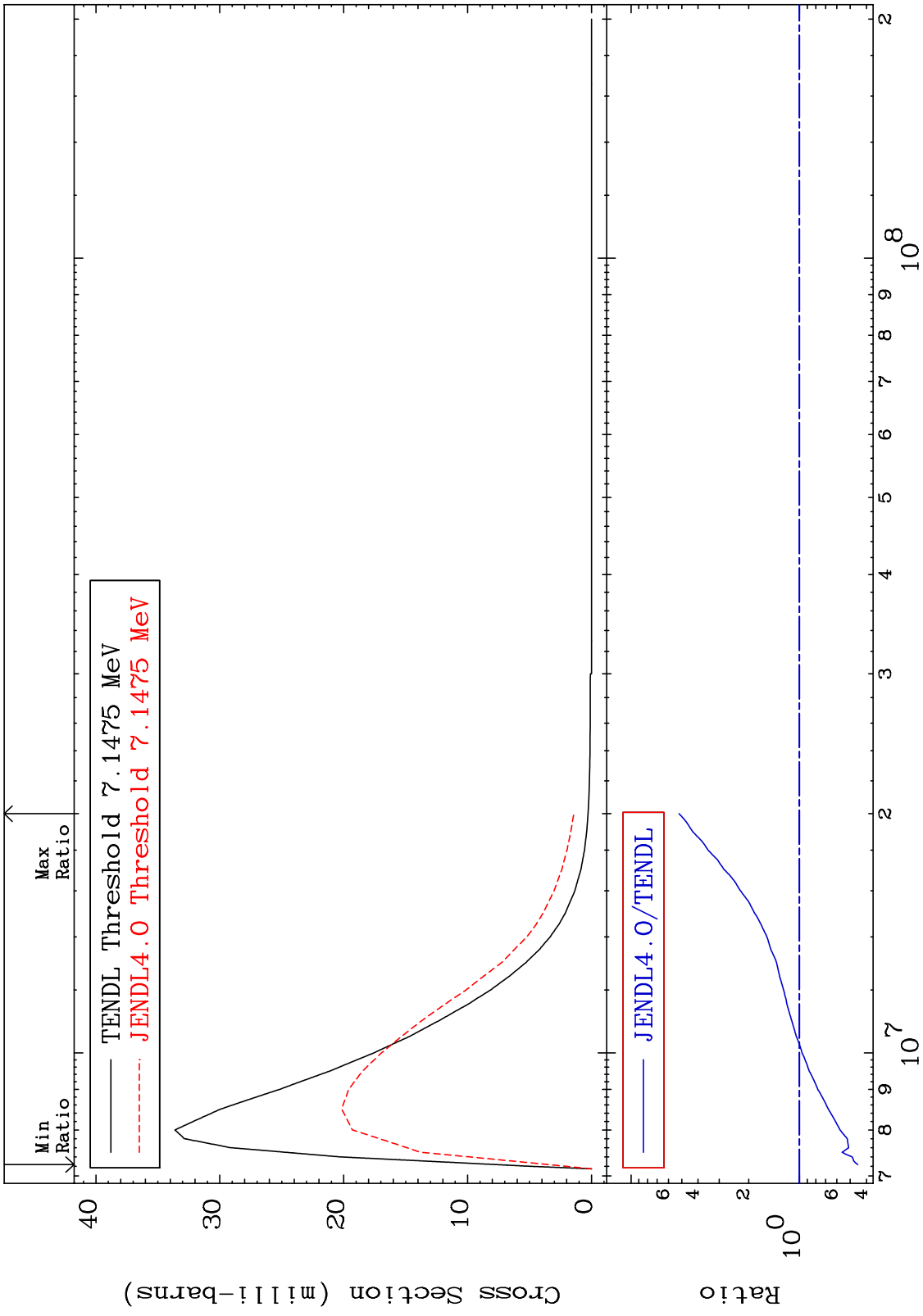
MAT 1431 MT= 67 (n,n') Level Cross Section 14-Si-30
 -59.25 To 348.8 %



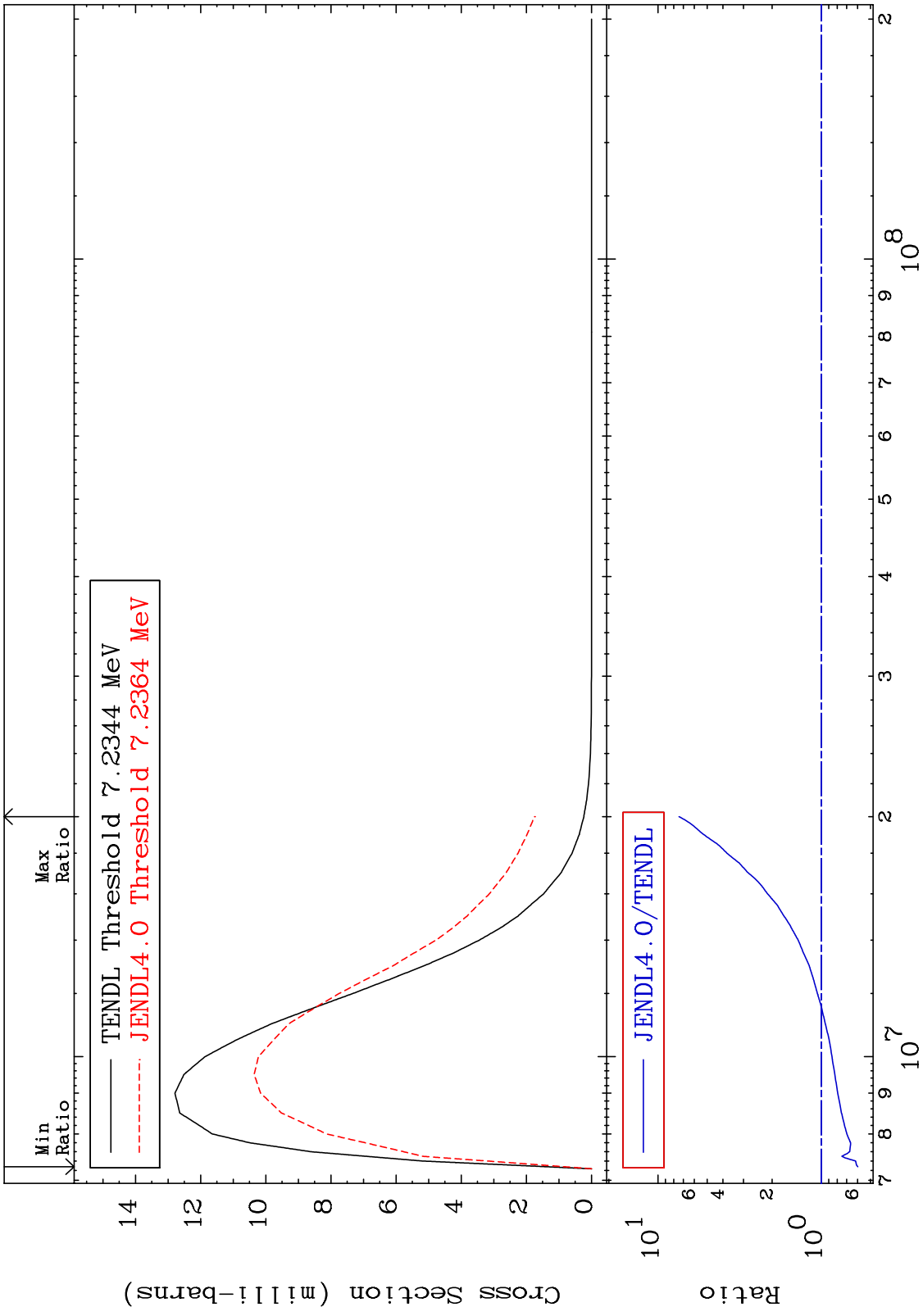
MAT 1431 MT= 68 (n,n') Level Cross Section 14-Si-30
 -55.72 To 697.4 %



MAT 1431 MT= 69 (n,n') Level Cross Section 14-Si-30
 -54.96 To 419.1 %



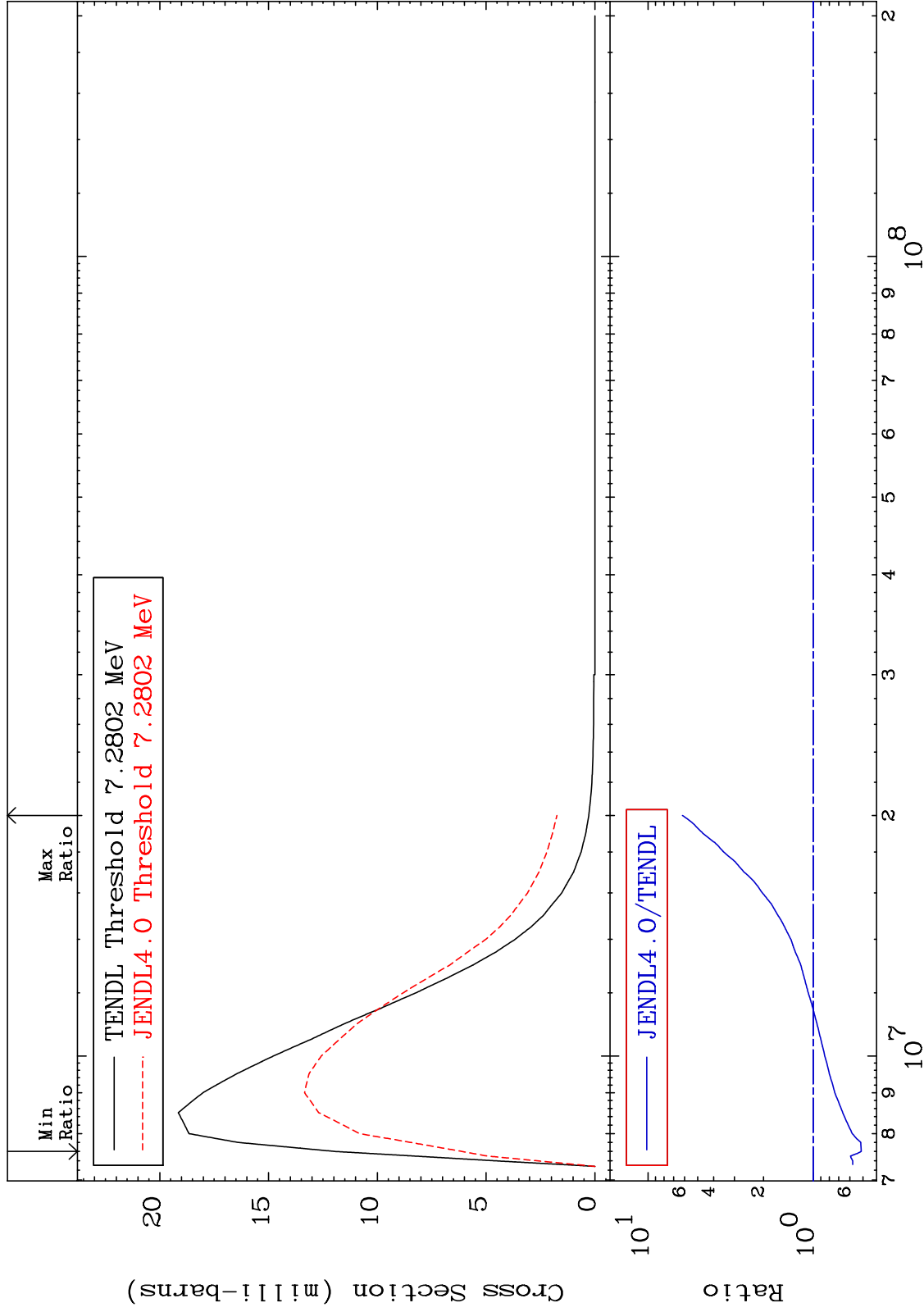
MAT 1431 MT= 70 (n,n') Level Cross Section 14-Si-30
 -40.20 To 642.8 %



MAT 1431

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

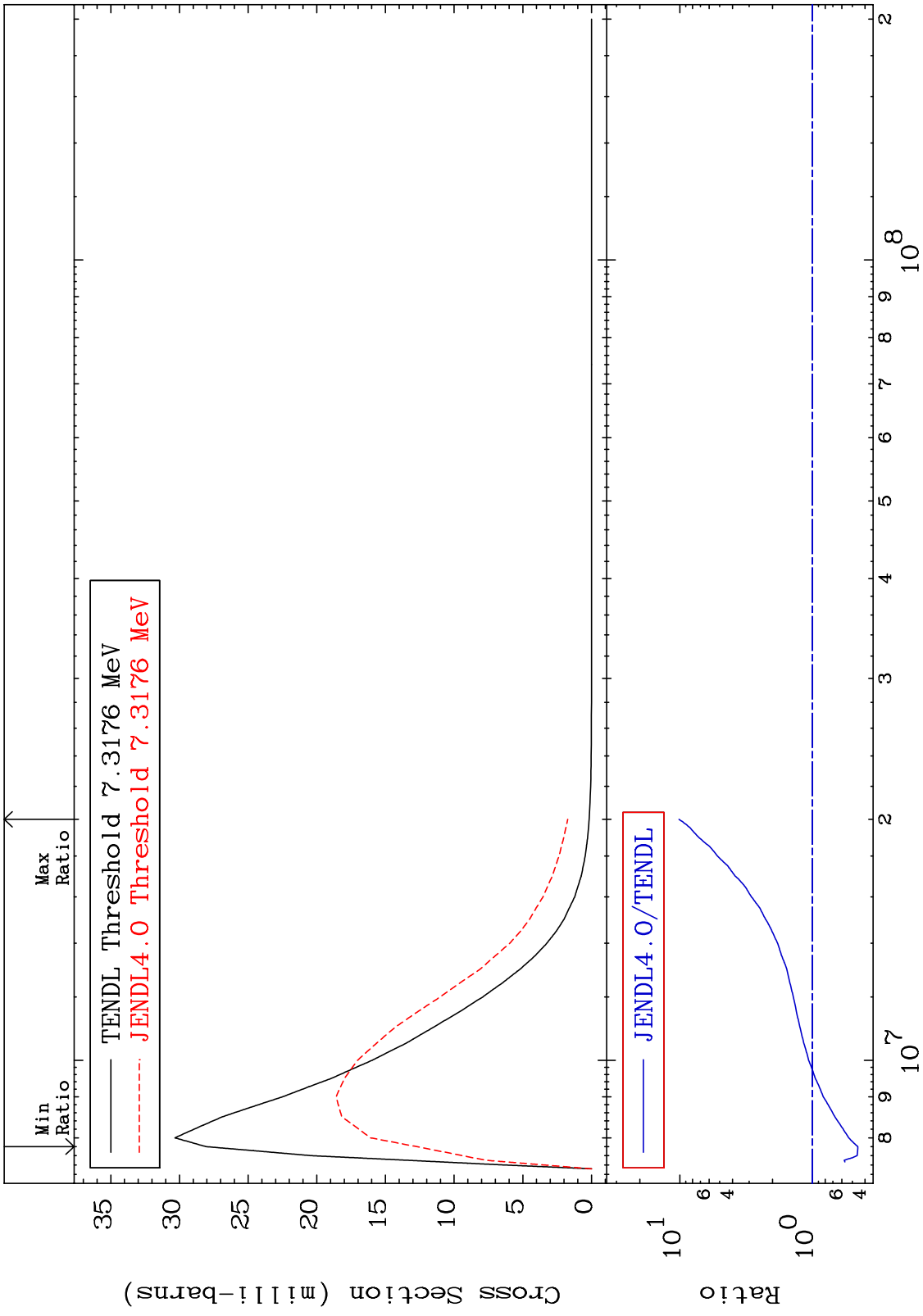
14-Si-30
-48.82 To 518.5 %



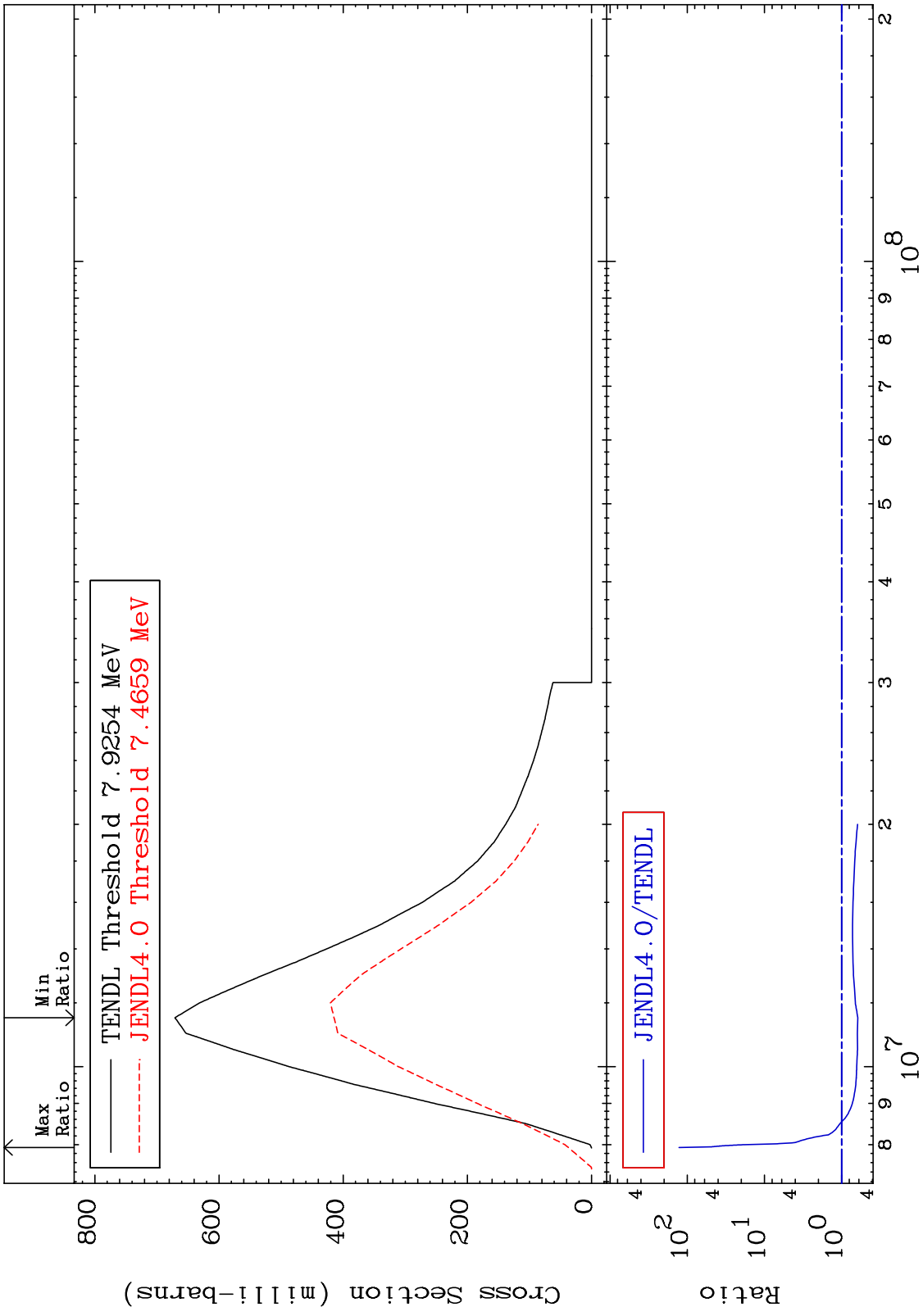
27

14-Si-30

MAT 1431 MT= 72 (n,n') Level Cross Section 14-Si-30
 -54.63 To 913.0 %



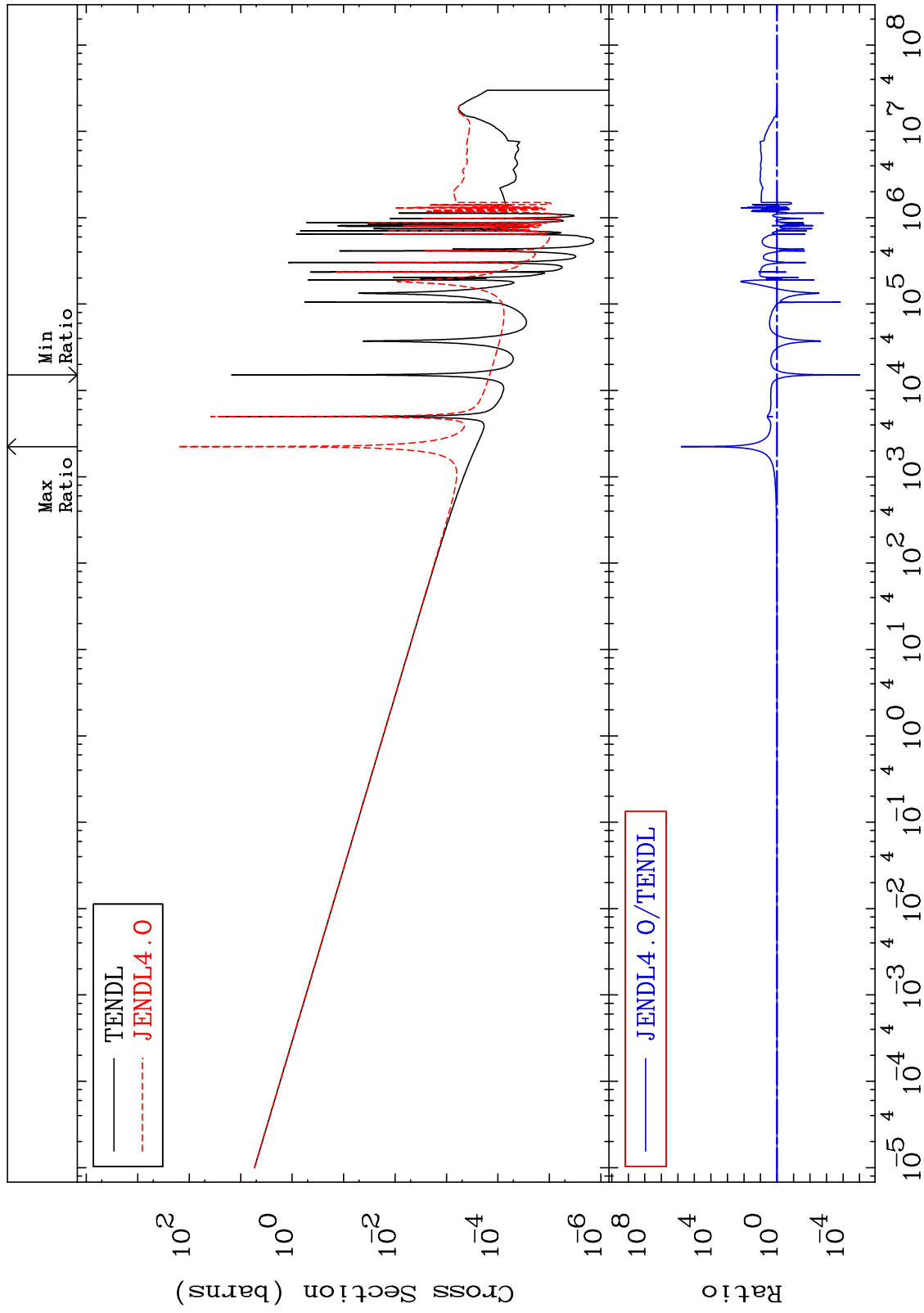
MAT 1431 (n,n') Continuum Cross Section 14-Si-30
 -38.20 To 9999. %



MAT 1431

(n, γ)
Cross Section

14-Si-30
-100.0 To 9999. %

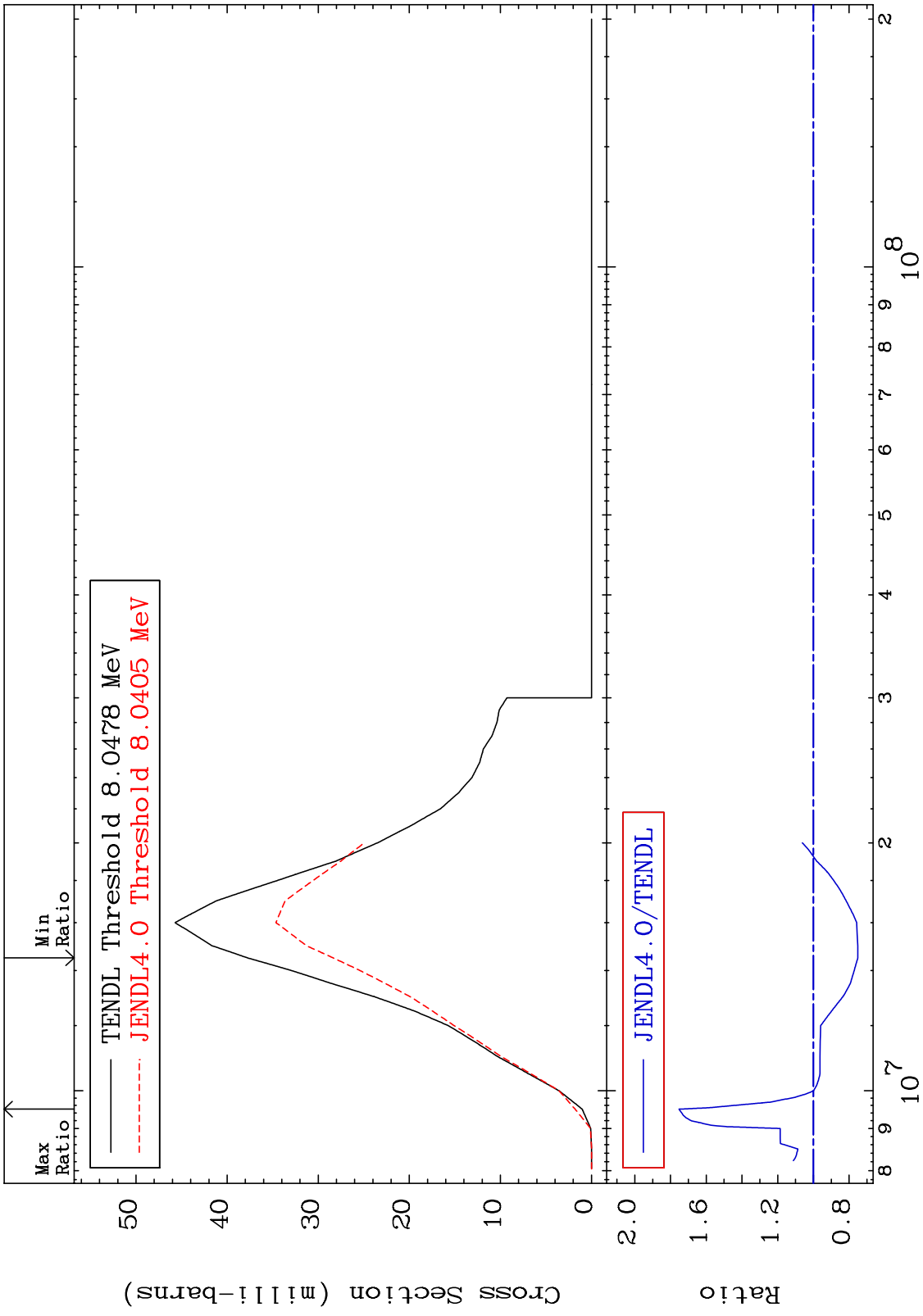


30

Incident Energy (eV)

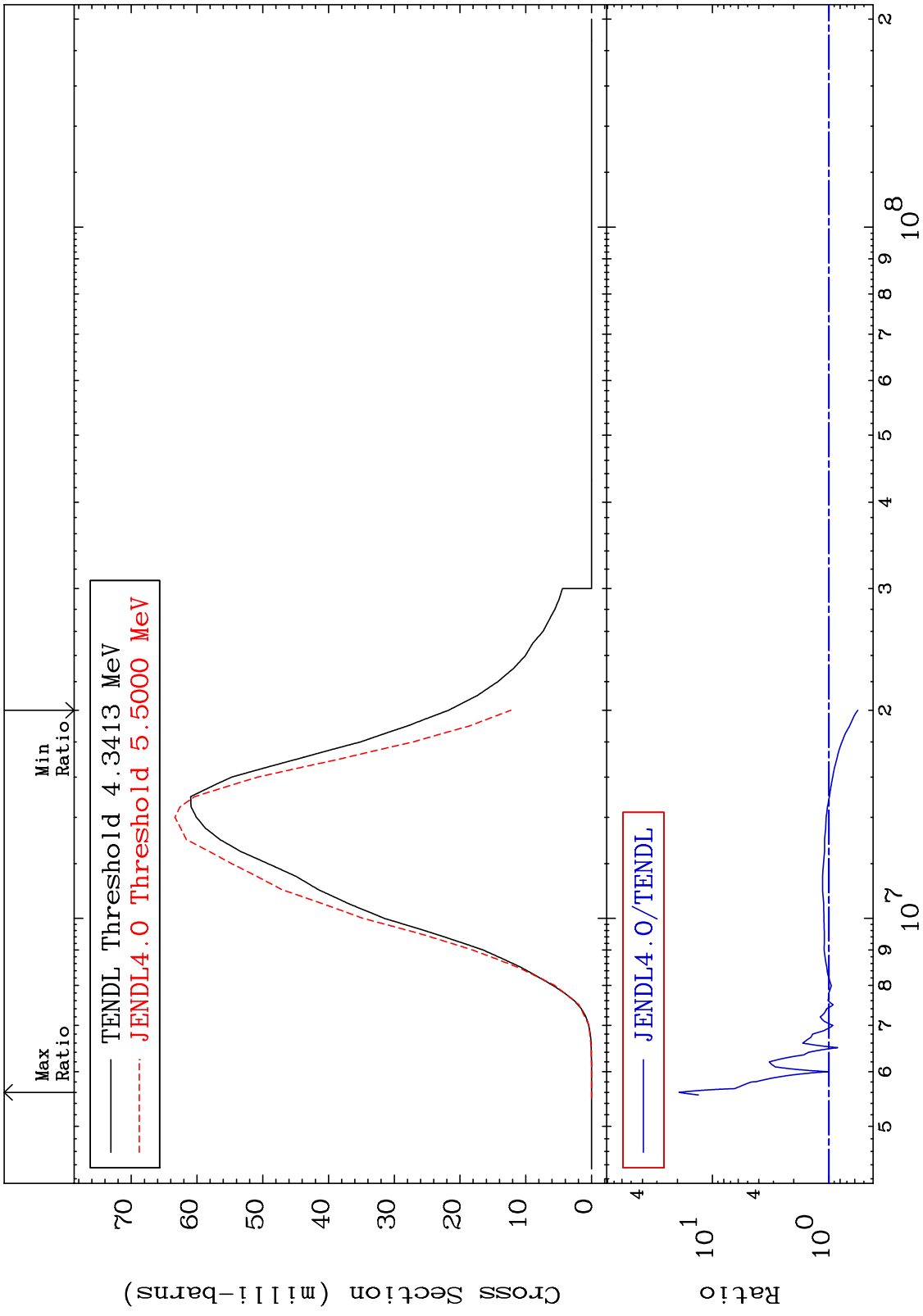
14-Si-30

MAT 1431 (n,p) 14-Si-30
 Cross Section -24.88 To 75.23 %



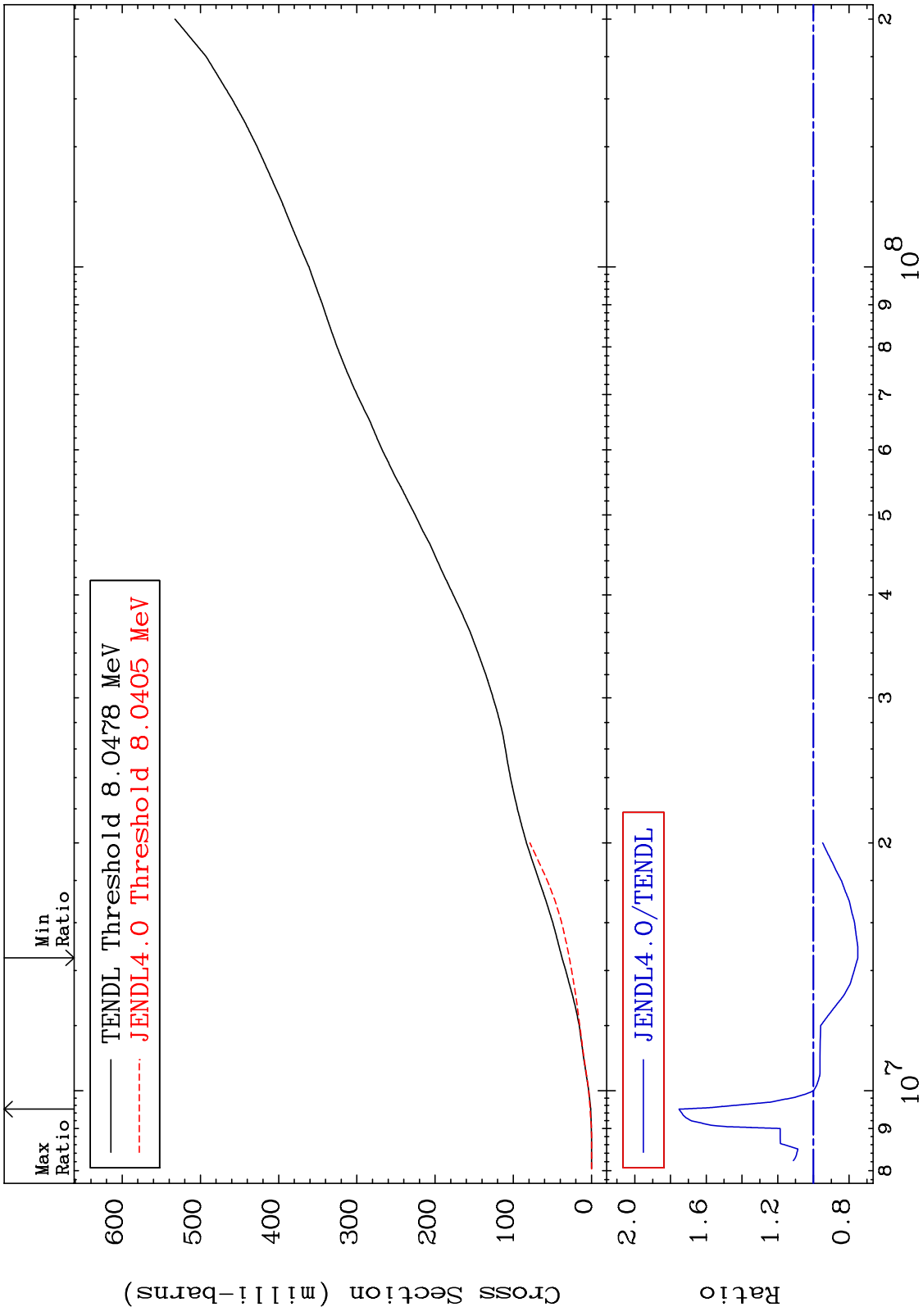
31 14-Si-30

MAT 1431 (n, α) 14-Si-30
 Cross Section -43.64 To 1838. %



32 14-Si-30

MAT 1431 Hydrogen Production Cross Section 14-Si-30
 -24.88 To 75.23 %

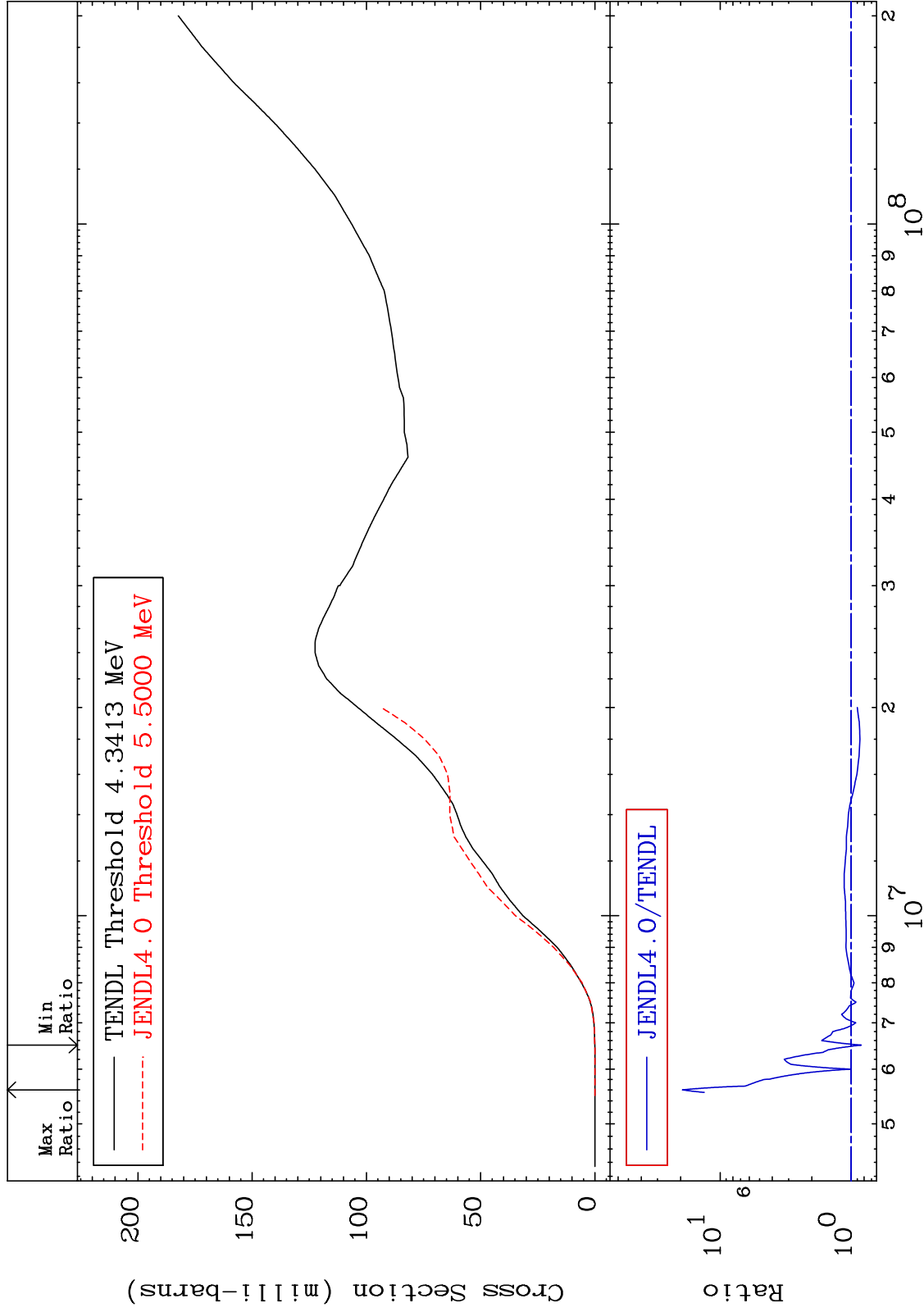


14-Si-30

MAT 1431

He-4 Production
Cross Section

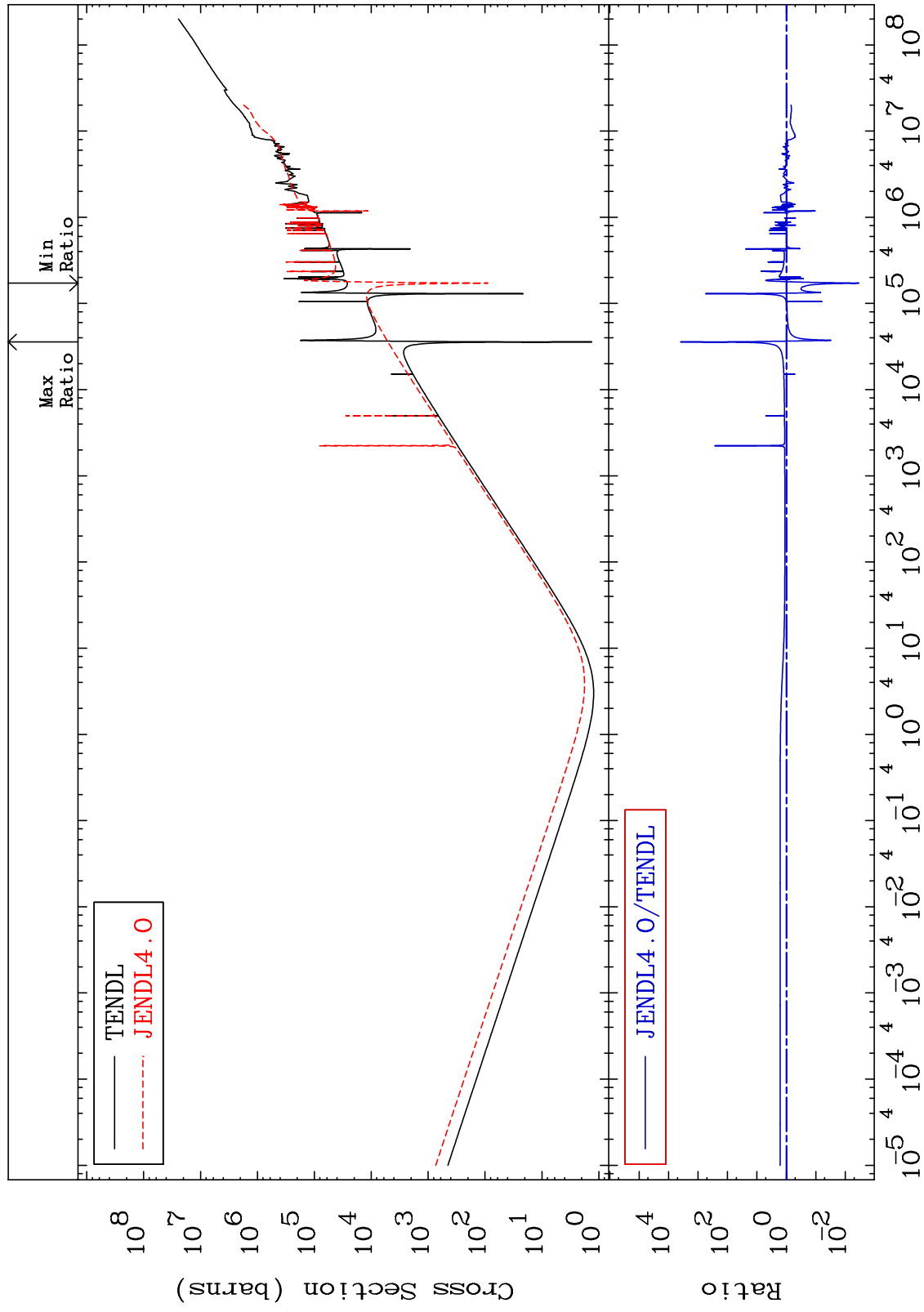
14-Si-30
-16.13 To 1838. %



MAT 1431

Kerma total (eV-barns)
Cross Section

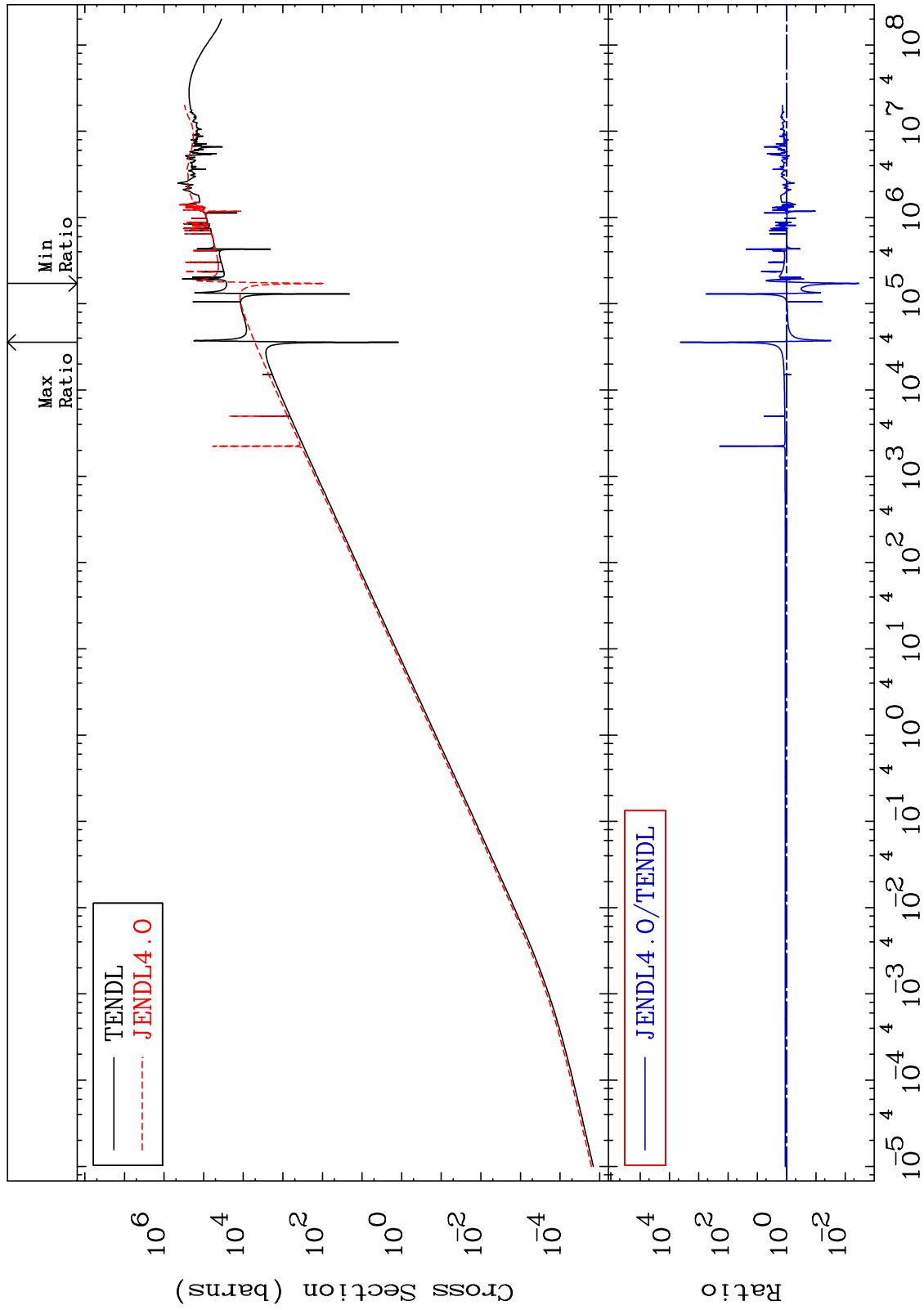
14-Si-30
-99.66 To 9999. %



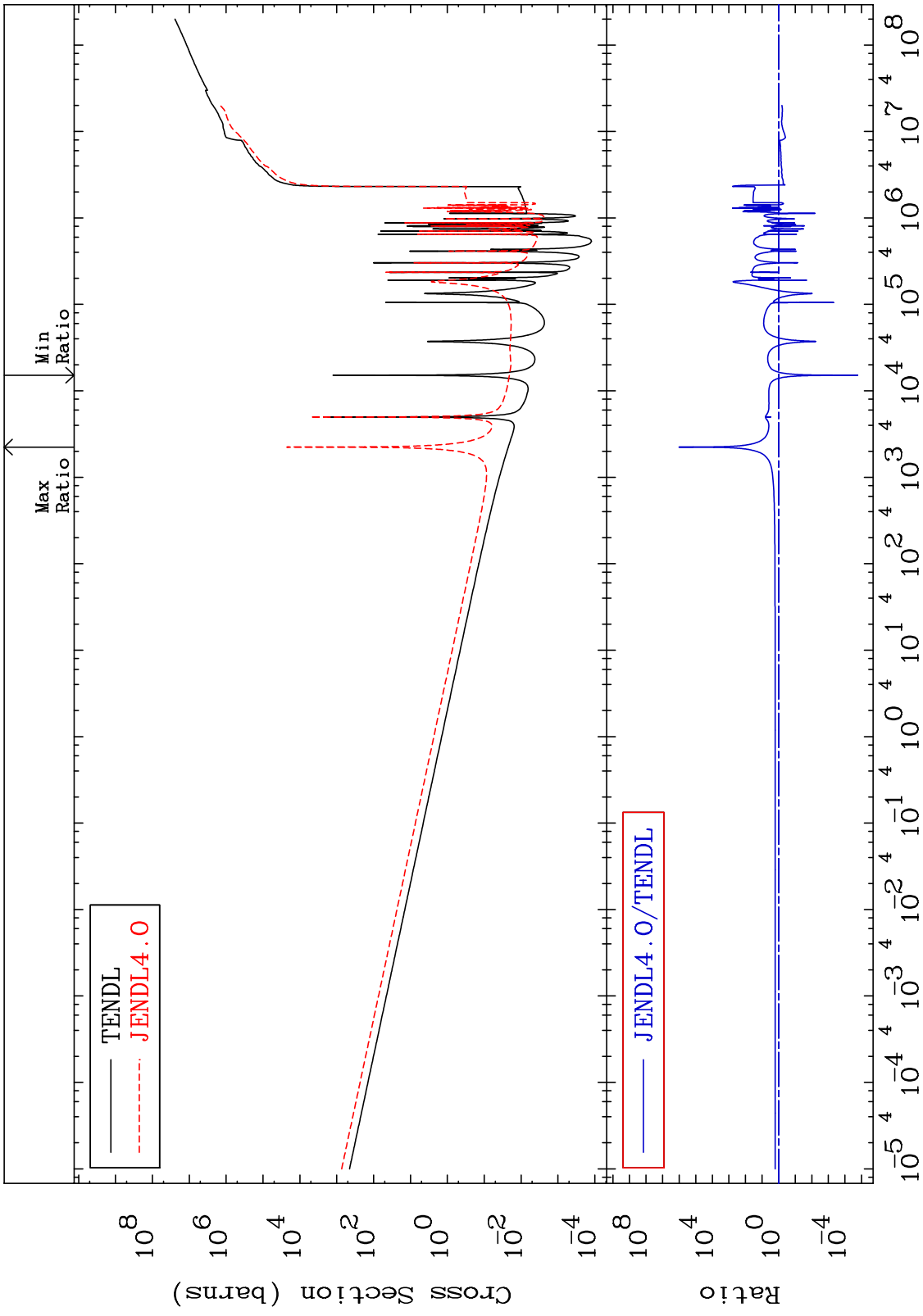
MAT 1431

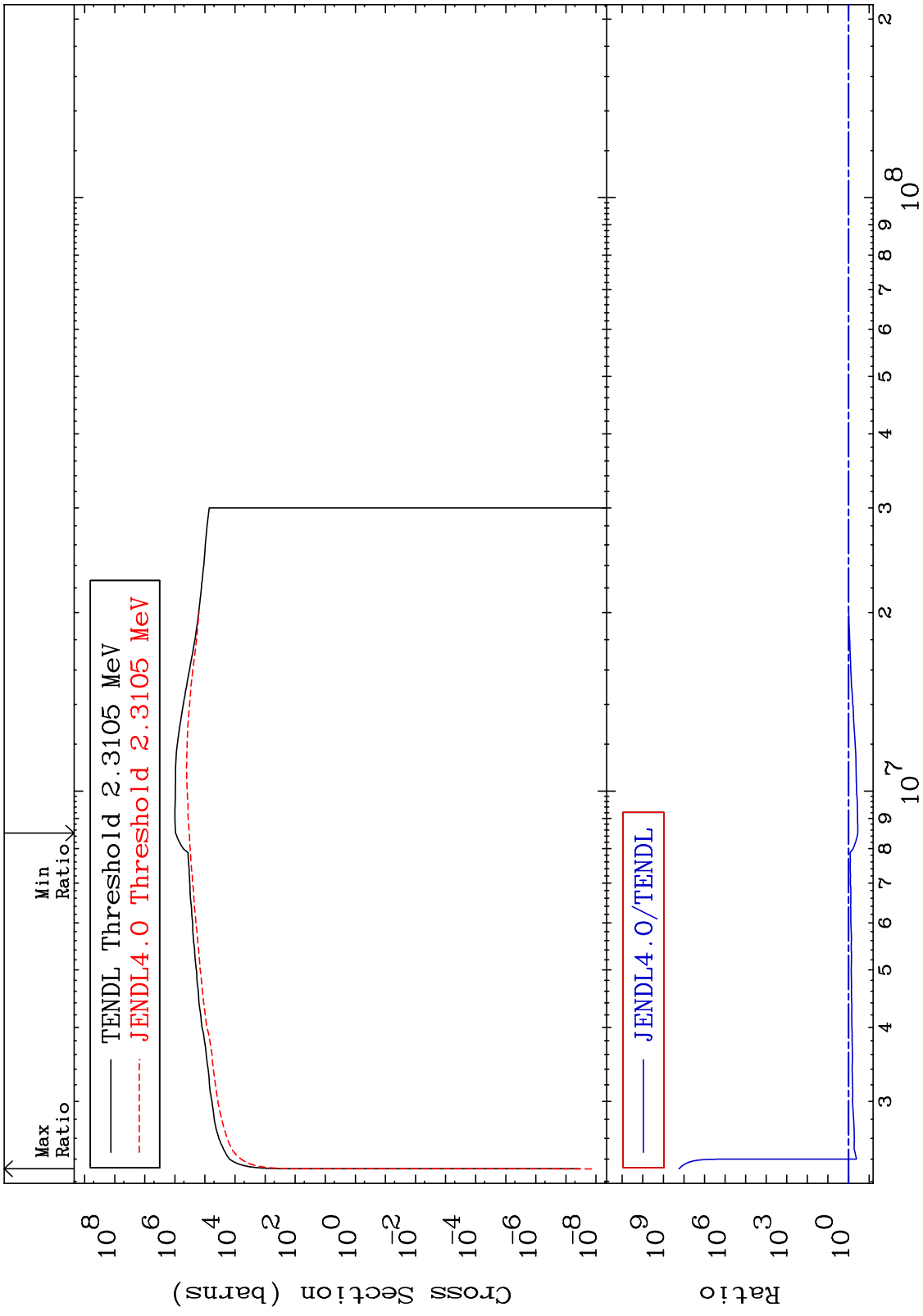
Kerma elastic
Cross Section

14-Si-30
-99.66 To 9999. %



MAT 1431 Kerma non-elastic (all but mt2) 14-Si-30
 Cross Section -100.0 To 9999. %

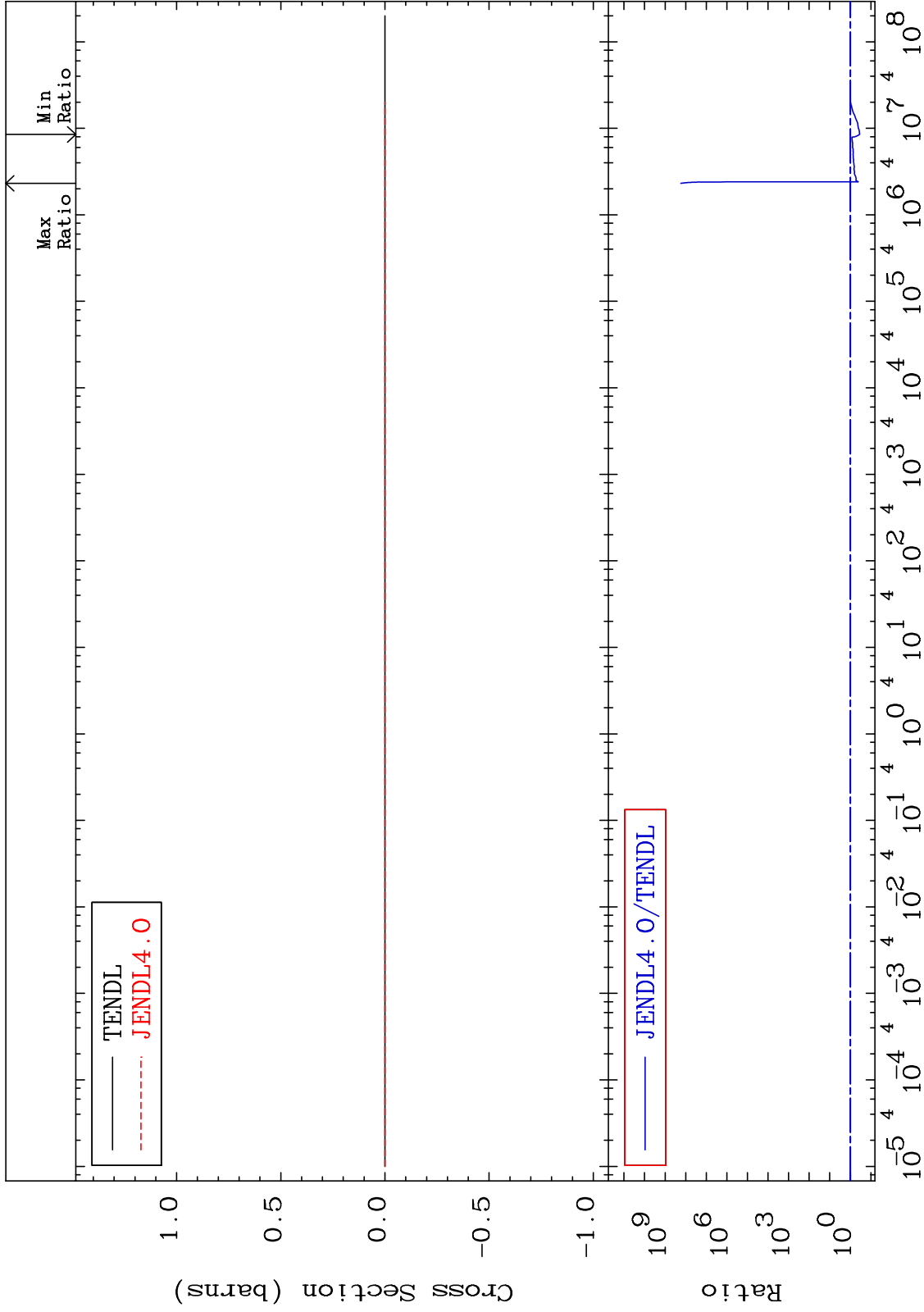




MAT 1431

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

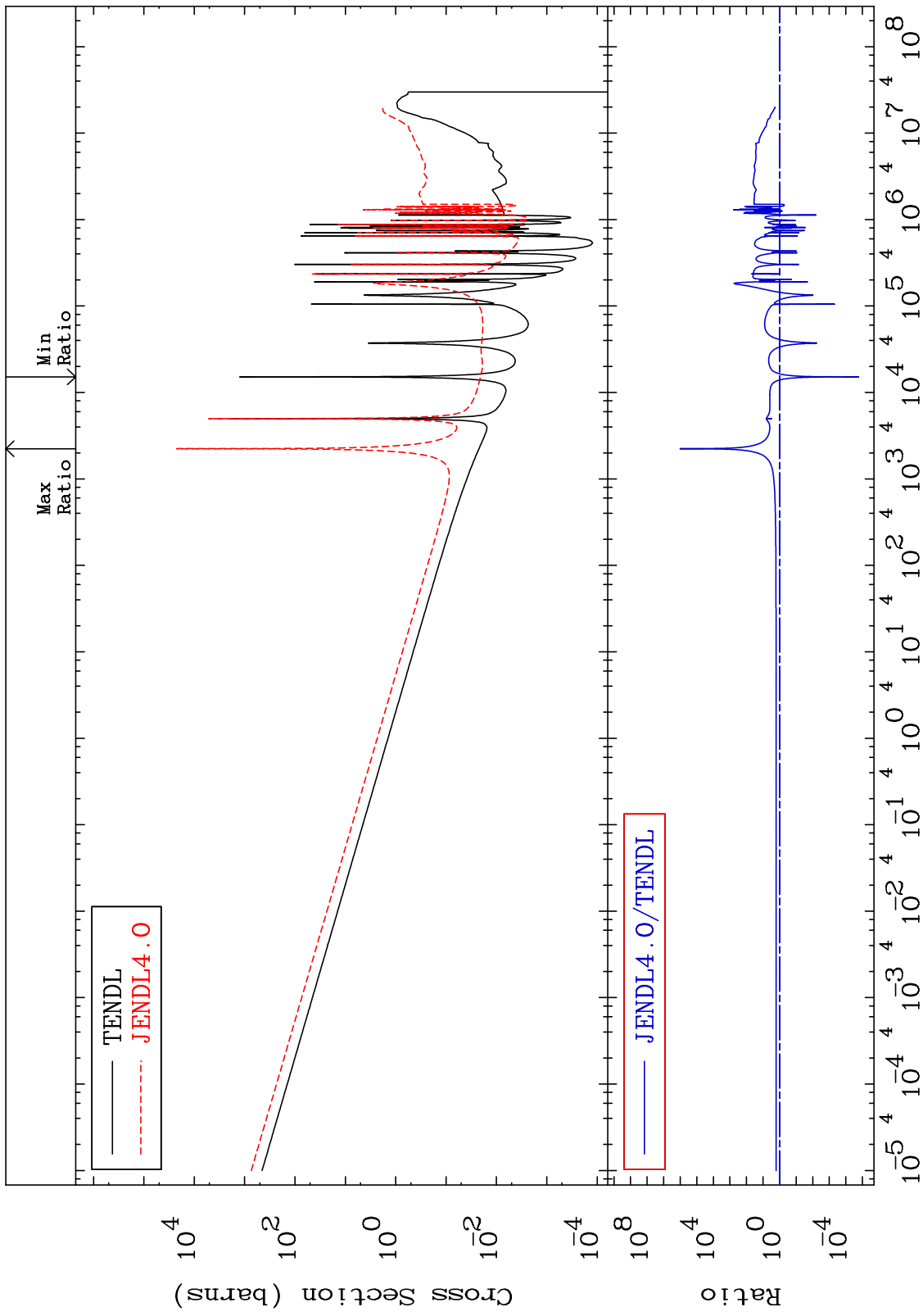
14-Si-30
-64.77 To 9999. %



MAT 1431

Kerma capture (mt102)
Cross Section

14-Si-30
-100.0 To 9999. %



JENDL4.0/TENDL

40

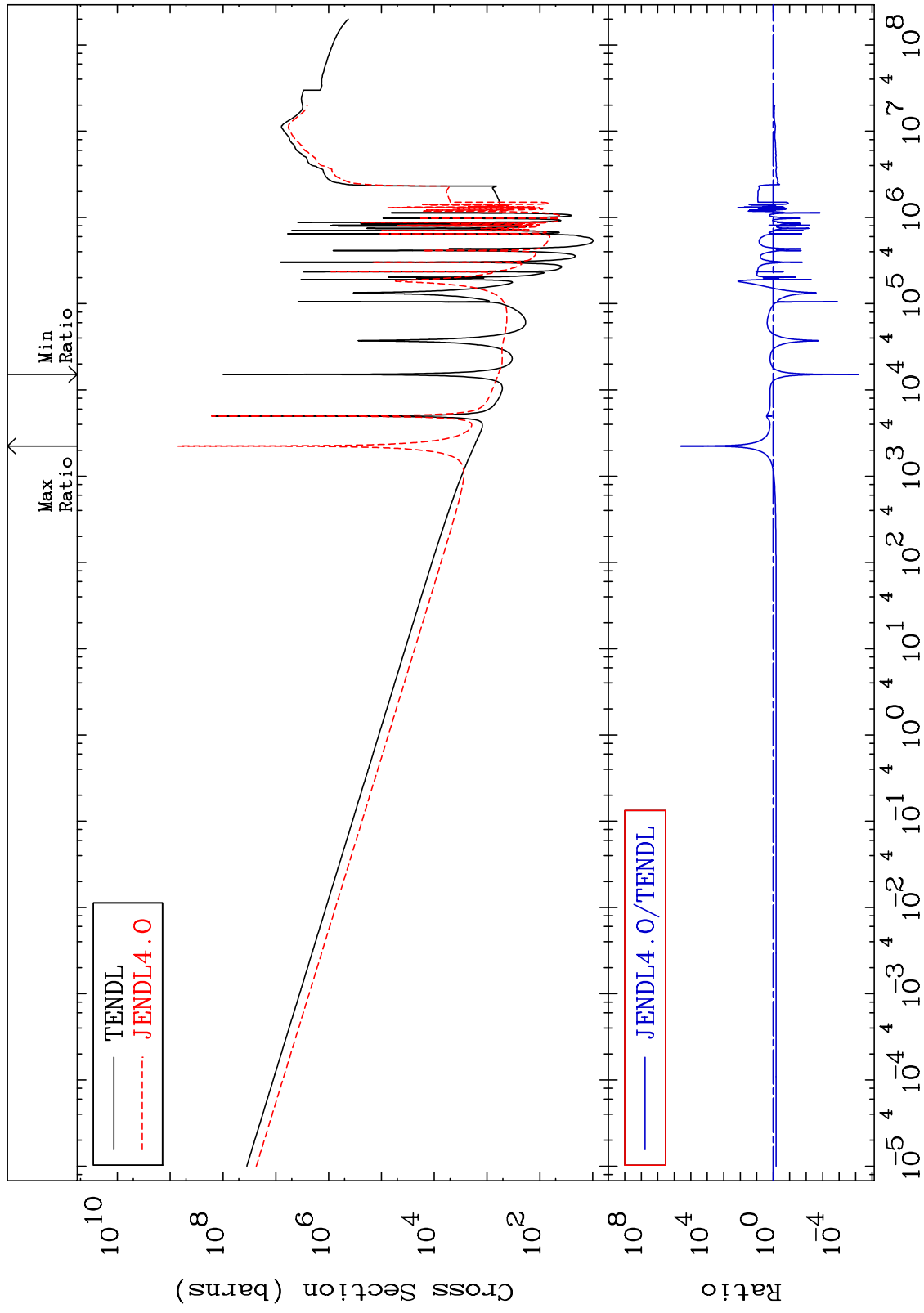
Incident Energy (eV)

14-Si-30

MAT 1431

Total photon (eV-barns)
Cross Section

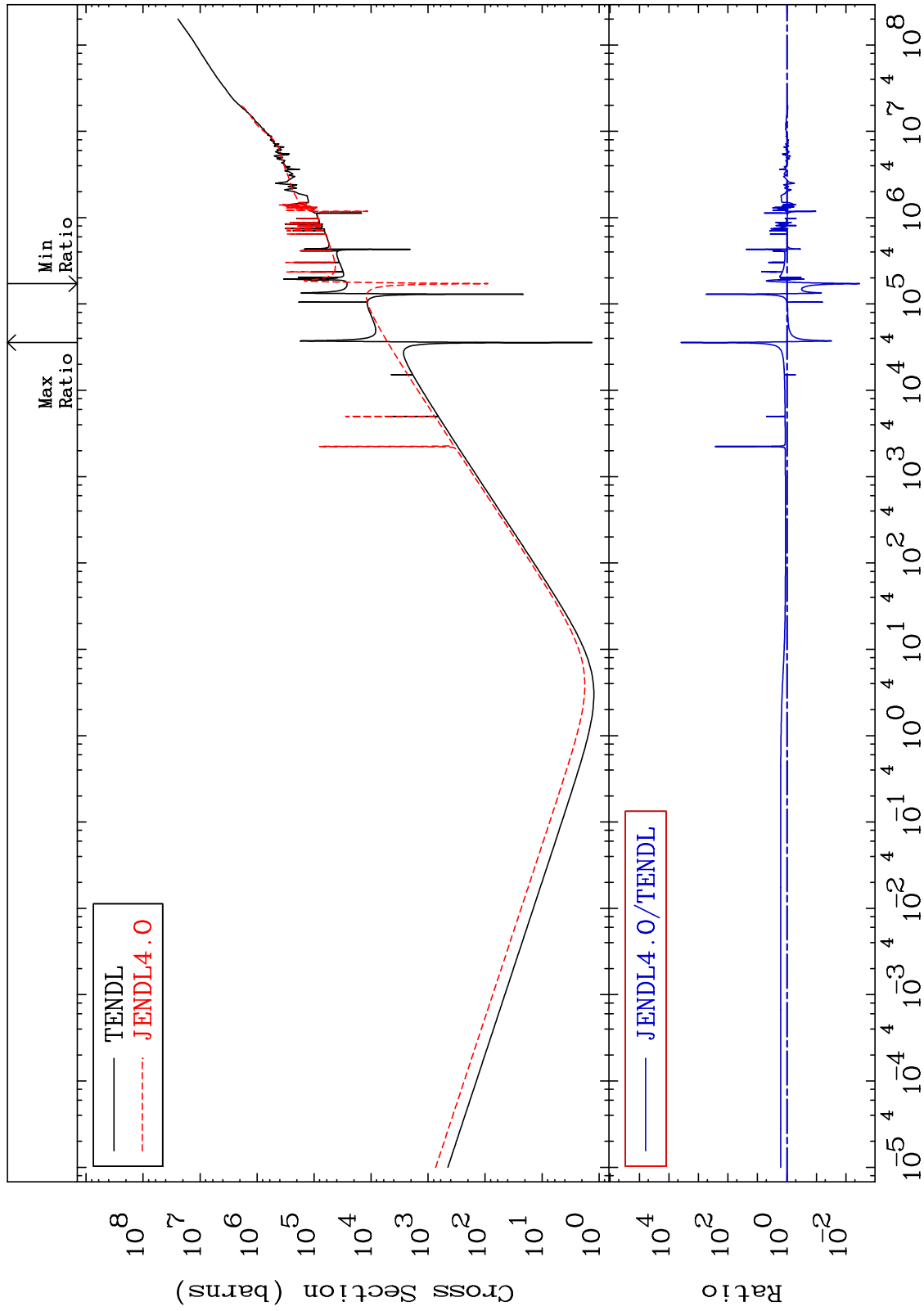
14-Si-30
-100.0 To 9999. %



MAT 1431

Total kinematic kerma (high limit)
Cross Section

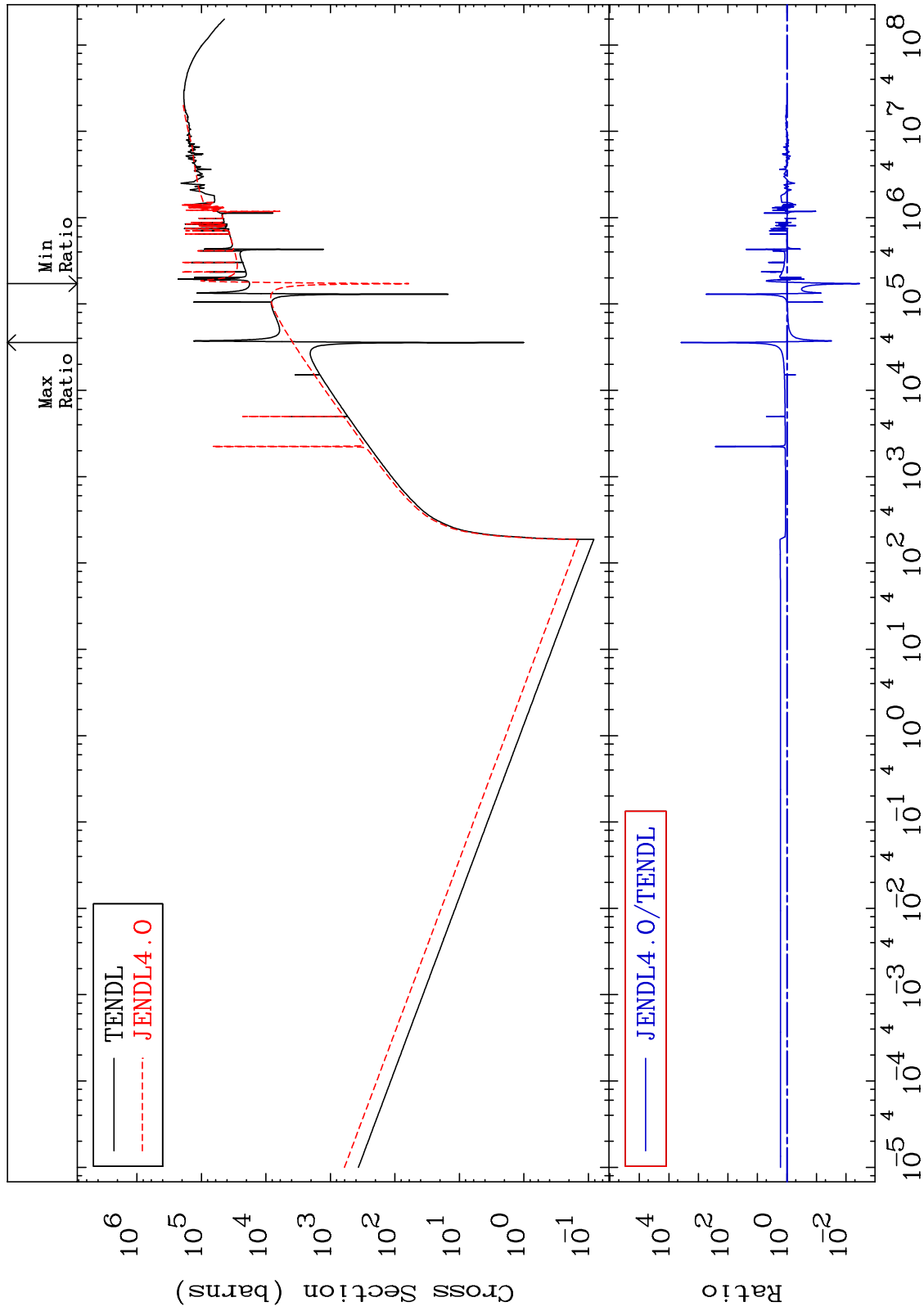
14-Si-30
-99.66 To 9999. %



MAT 1431

Dpa total (eV-barns)
Cross Section

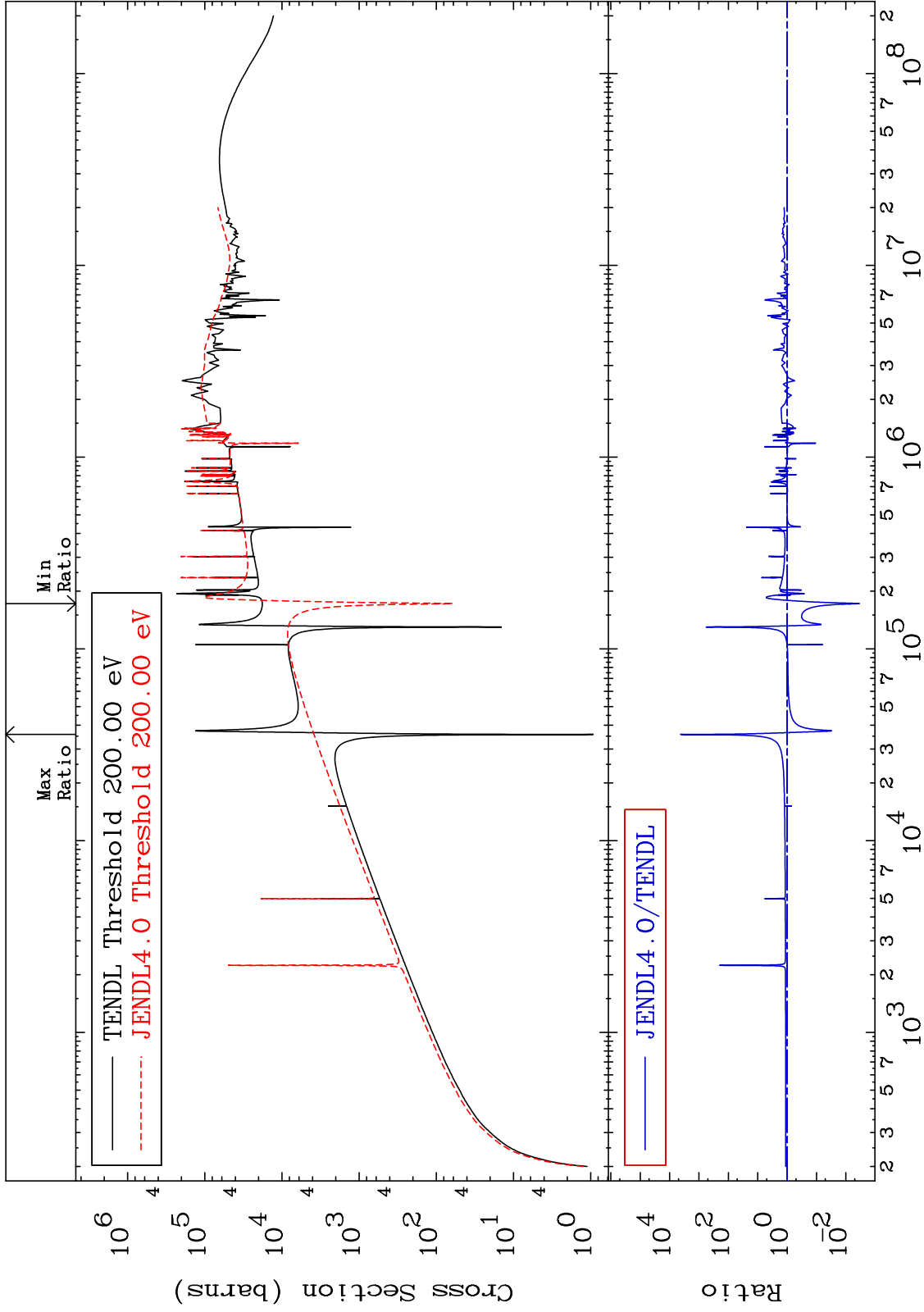
14-Si-30
-99.66 To 9999. %

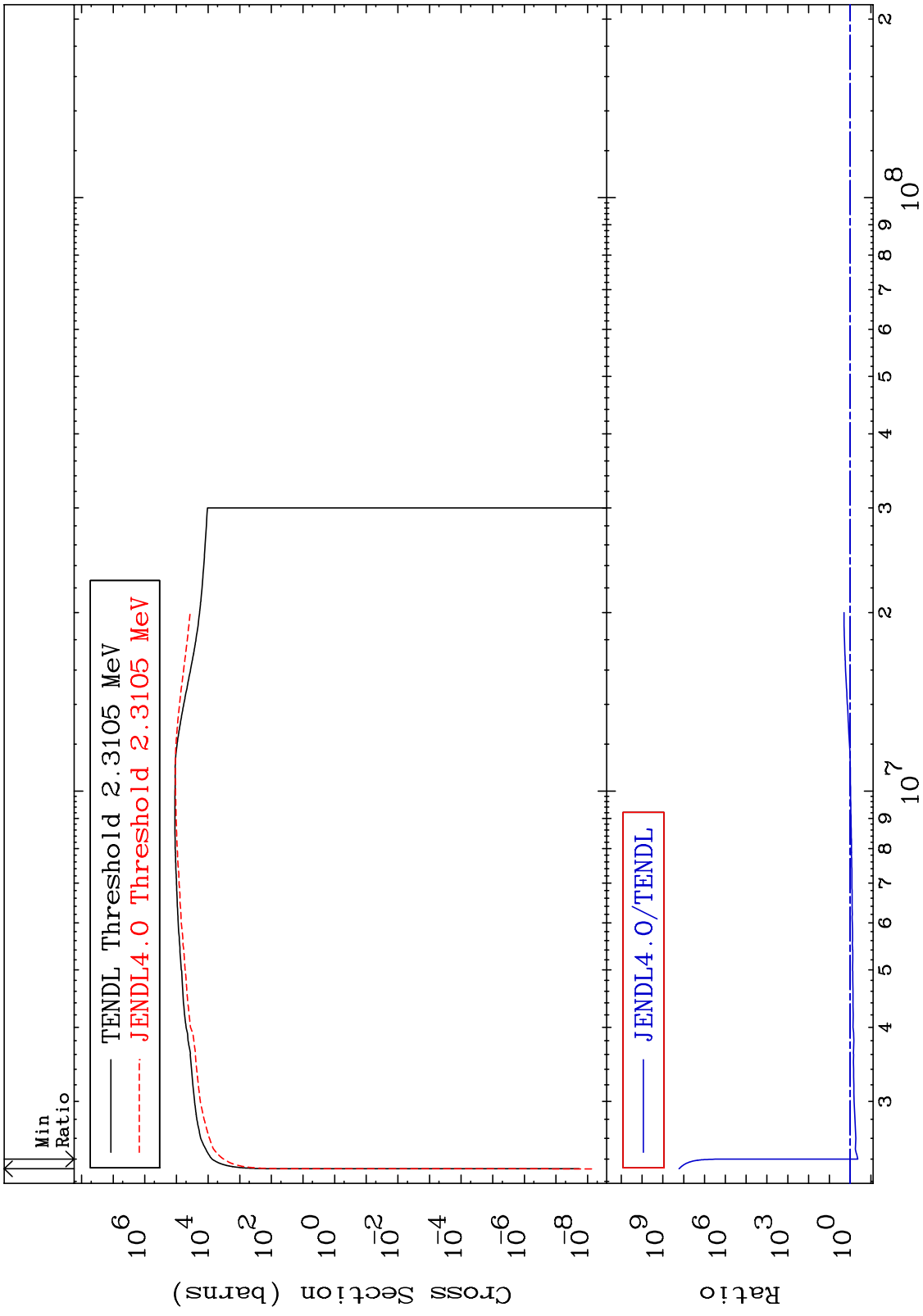


MAT 1431

Dpa elastic (mt2)
Cross Section

14-Si-30
-99.66 To 9999. %





MAT 1431 Dpa disappearance (mt102 -120) 14-Si-30
 Cross Section -100.0 To 9999. %

