

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

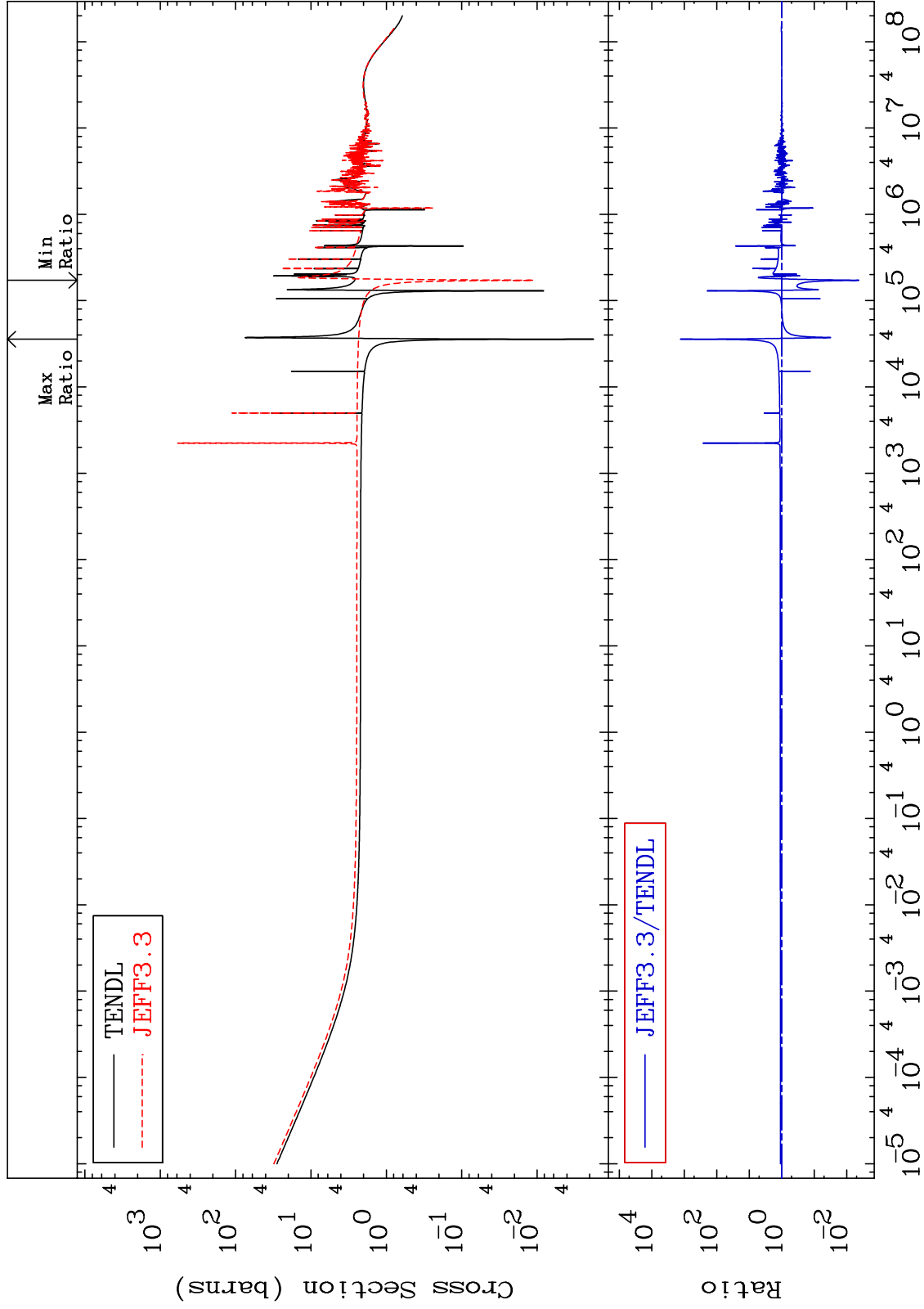
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 1431

Total
Cross Section

14-Si-30
-99.58 To 9999. %



1

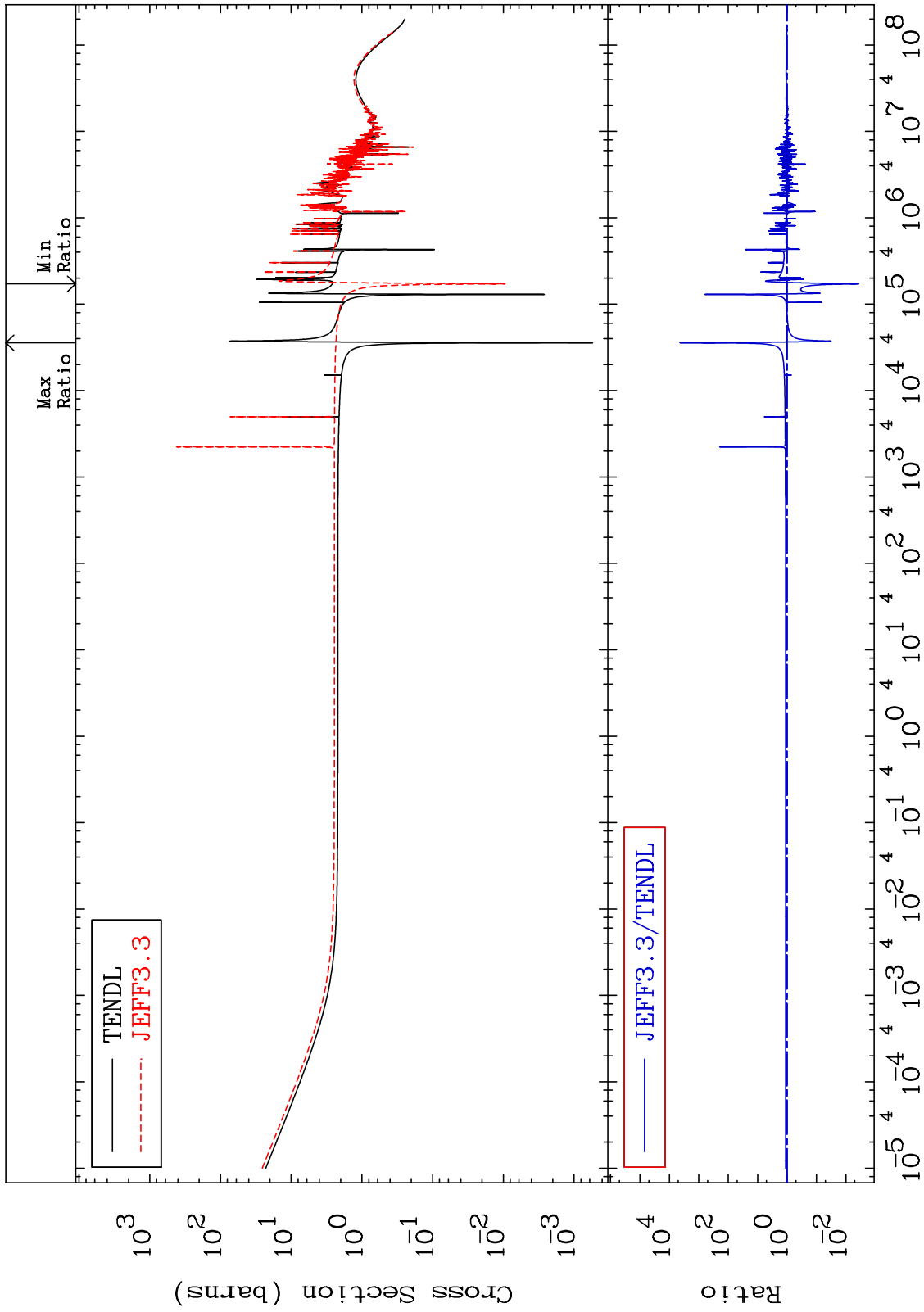
Incident Energy (eV)

14-Si-30

MAT 1431

Elastic
Cross Section

14-Si-30
-99.64 To 9999. %



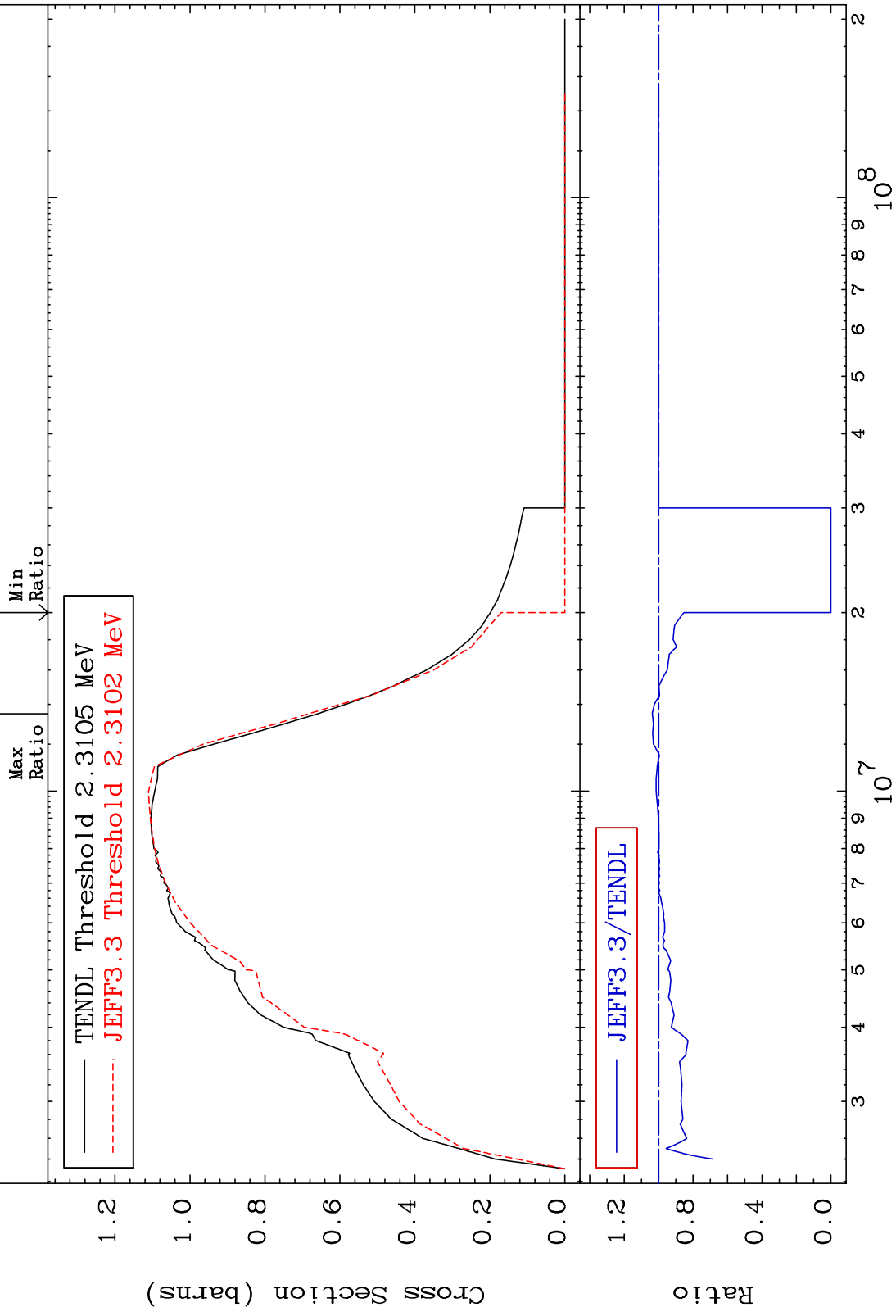
2

Incident Energy (eV)

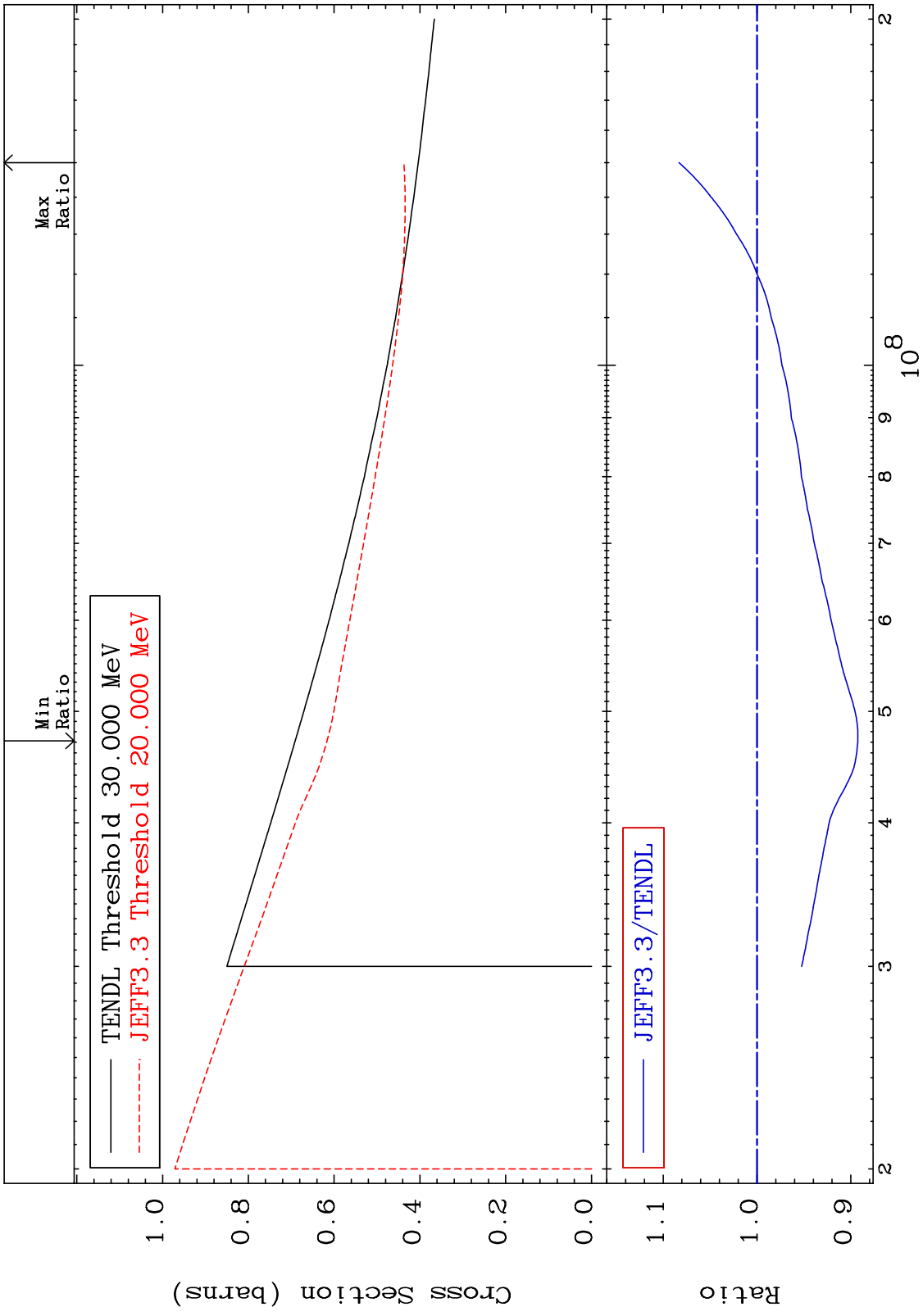
14-Si-30

MAT 1431 14-Si-30 -100.0 To 3.697 %

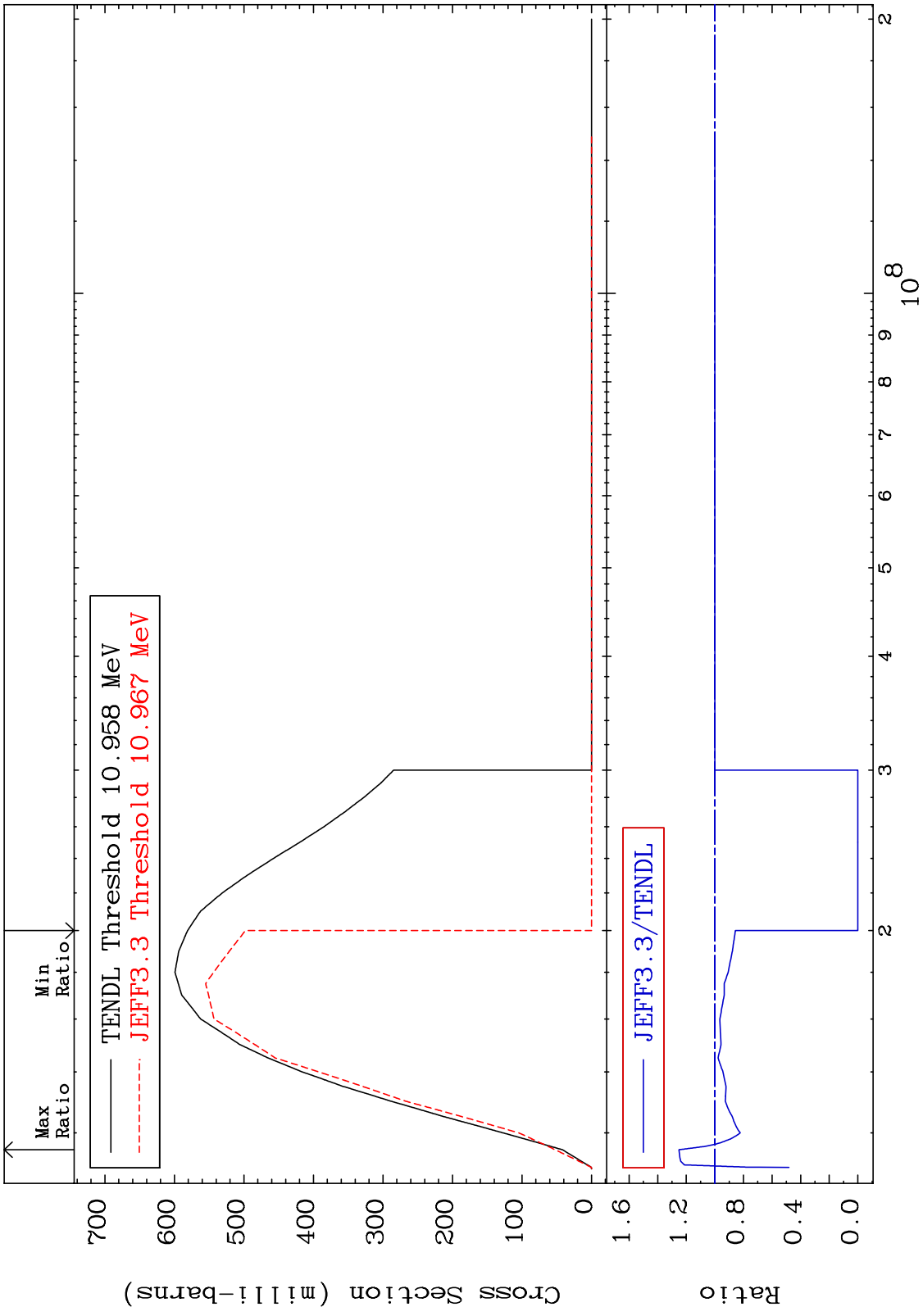
Inelastic Cross Section



MAT 1431 (n, remainder) Cross Section 14-Si-30 -10.74 To 8.306 %



MAT 1431 14-Si-30
-100.0 To 25.06 %
(n,2n)
Cross Section

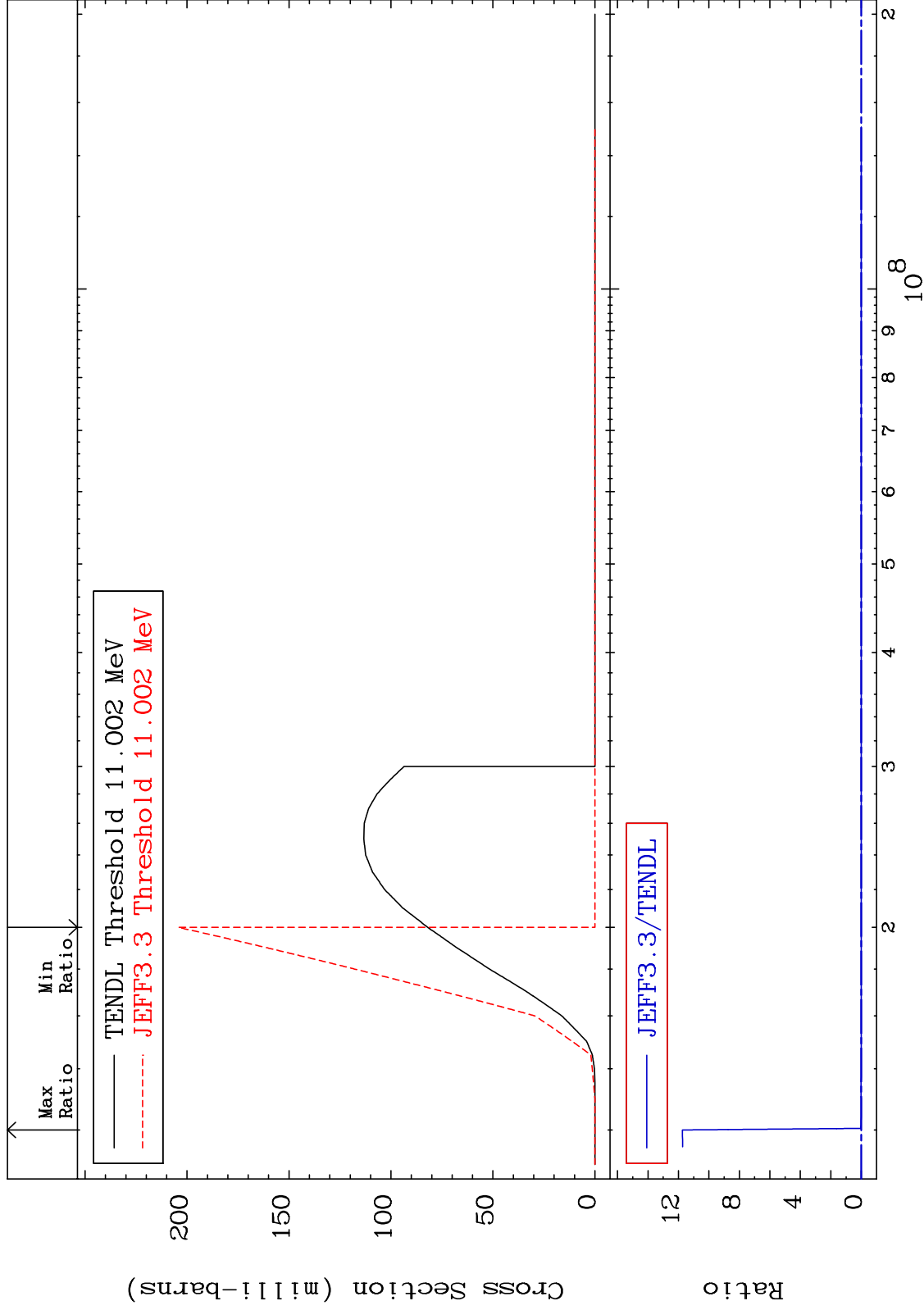


MAT 1431

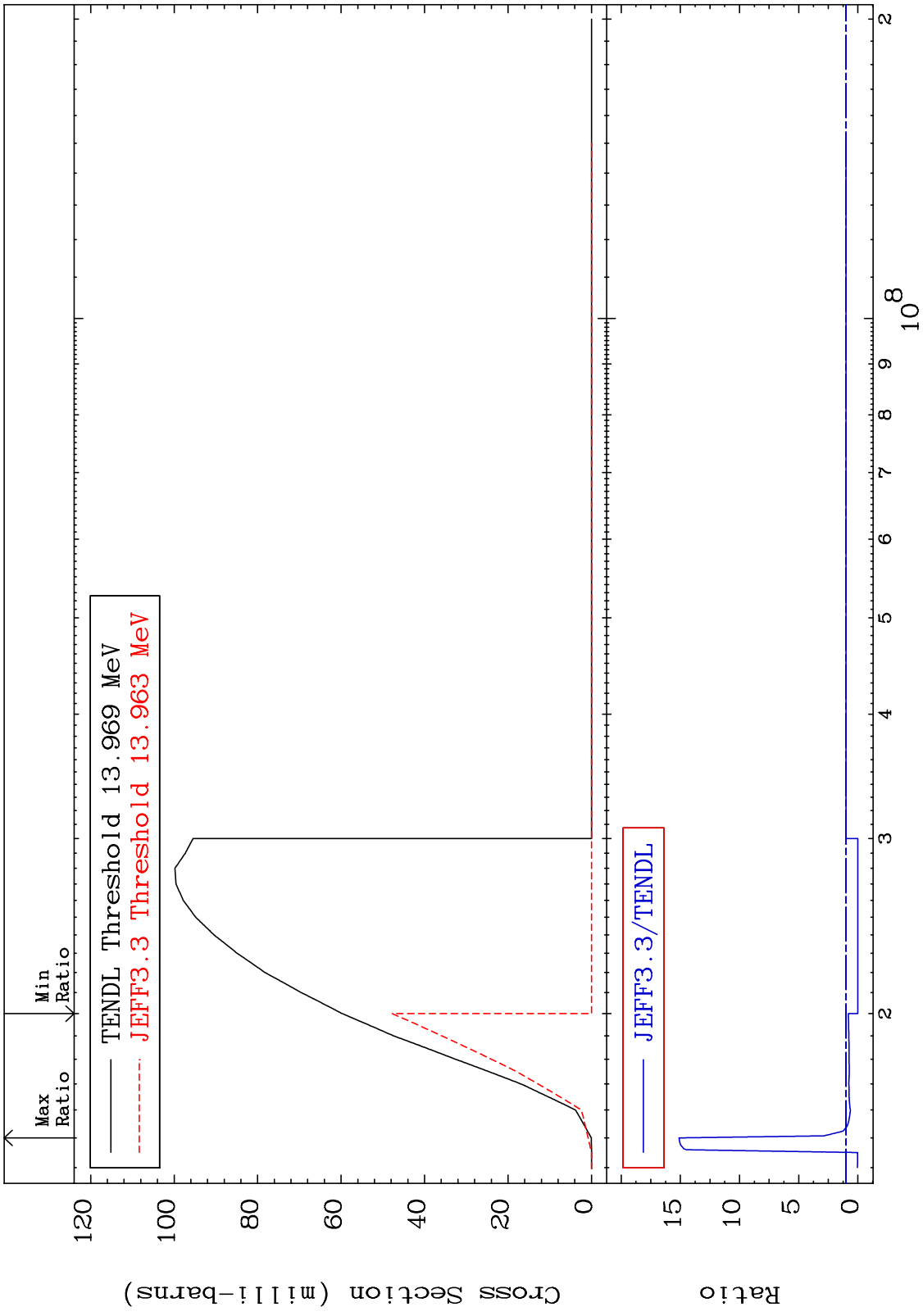
(n,n') α

14-Si-30

Cross Section -100.0 To 9999. %



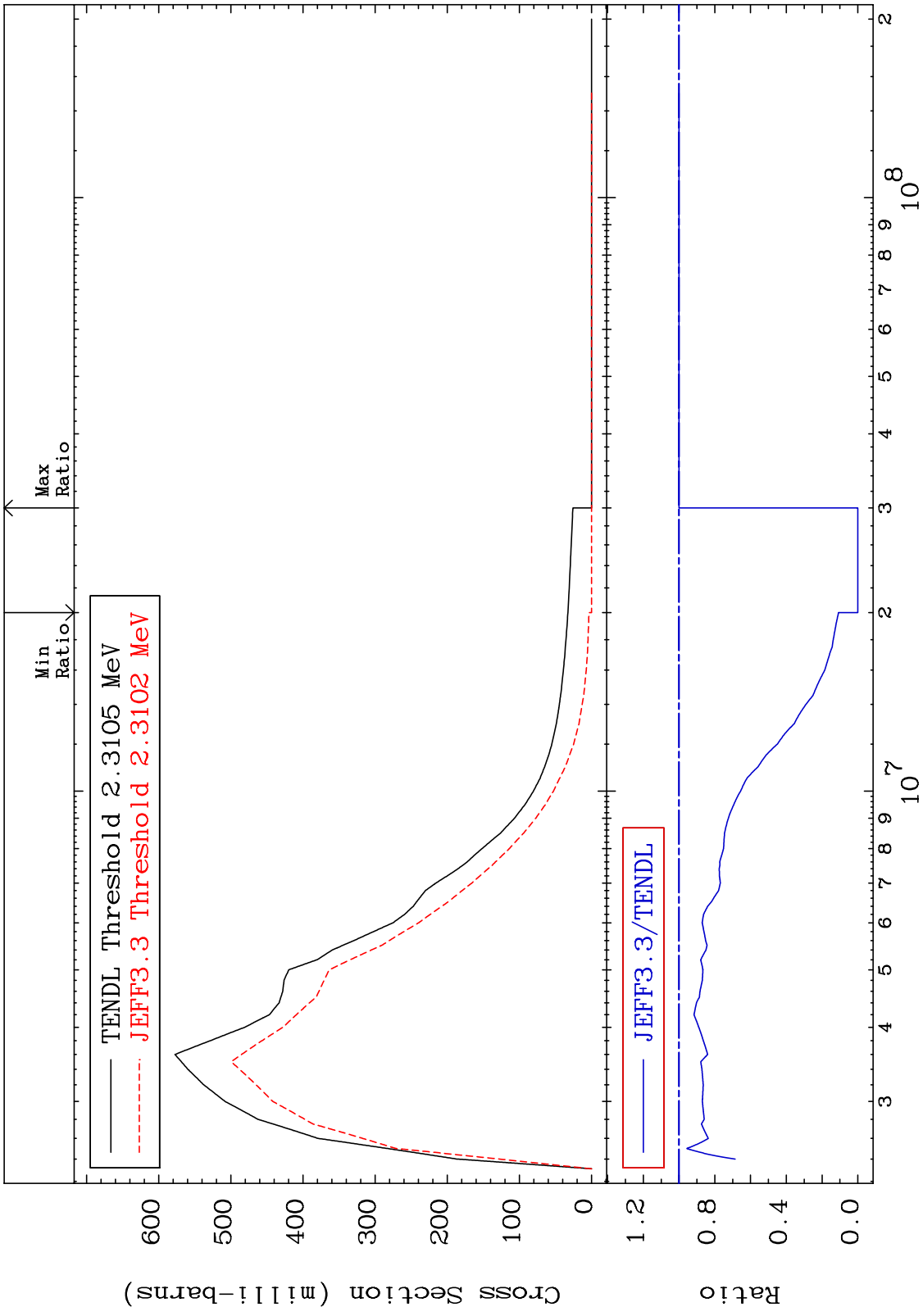
MAT 1431 (n,n') p 14-Si-30
 Cross Section -100.0 To 1411. %



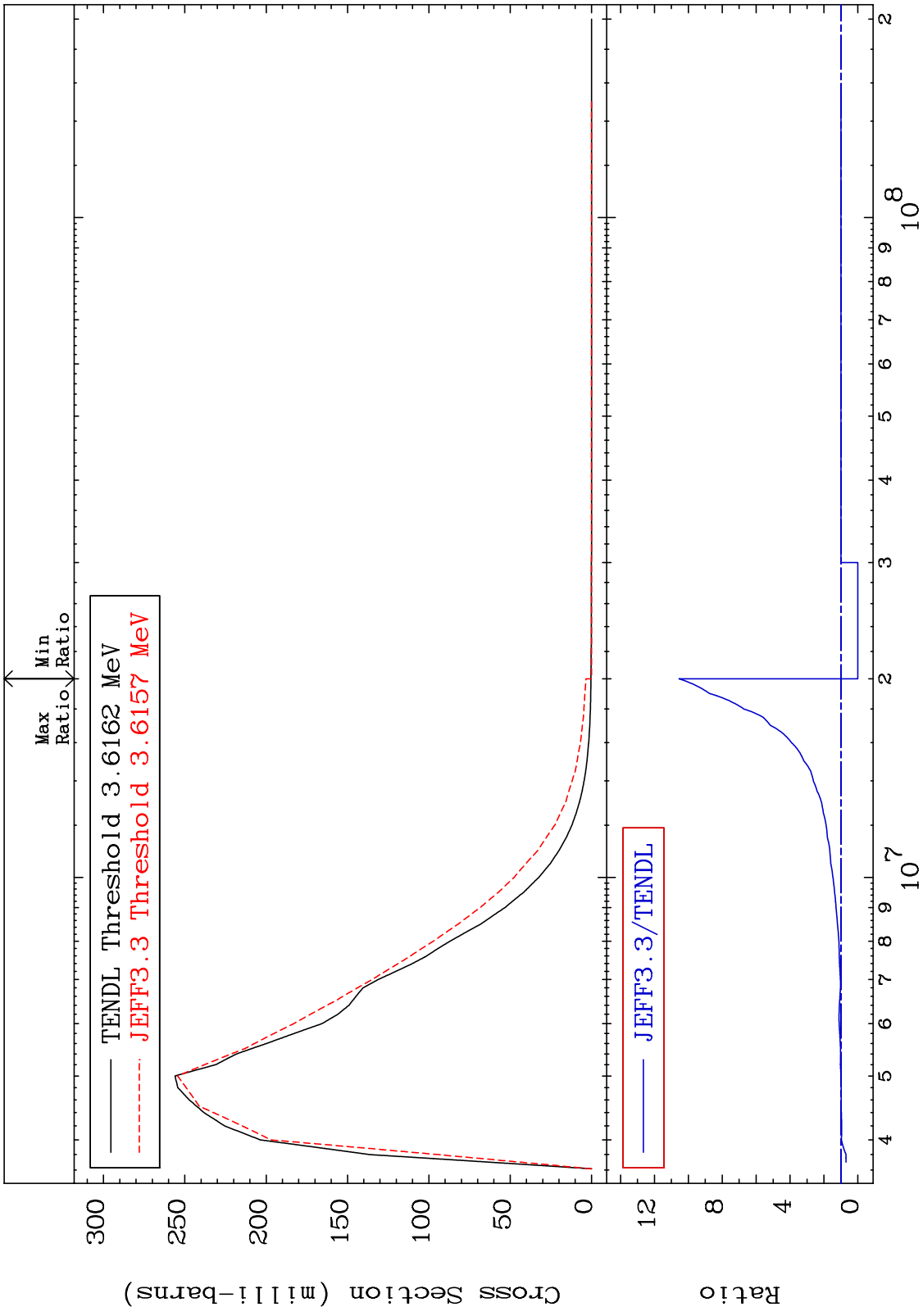
14-Si-30

Incident Energy (eV)

MAT 1431 MT= 51 (n,n') Level Cross Section 14-Si-30 -100.0 To 0.000 %

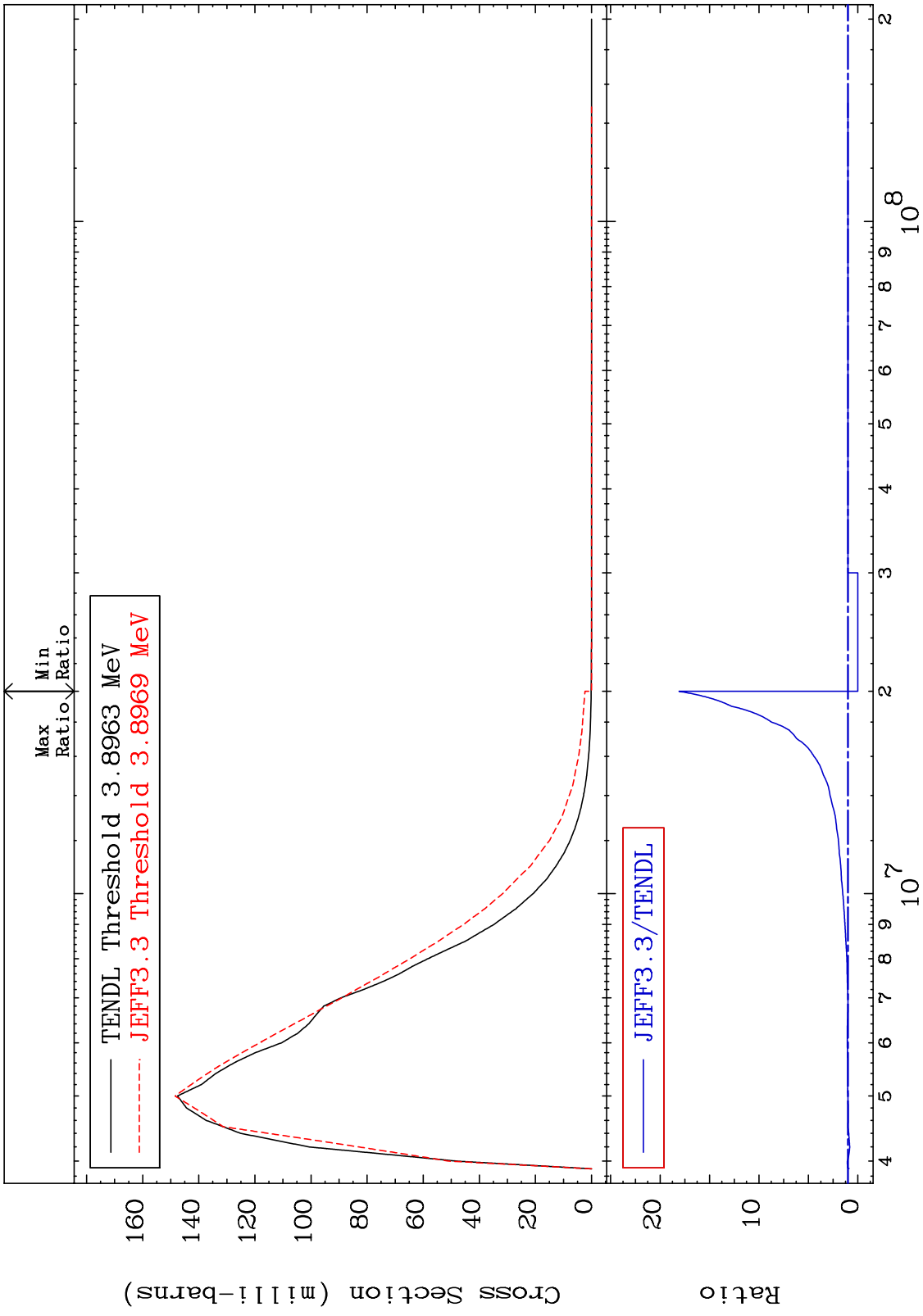


MAT 1431 MT= 52 (n,n') Level Cross Section -100.0 To 954.9 % 14-Si-30



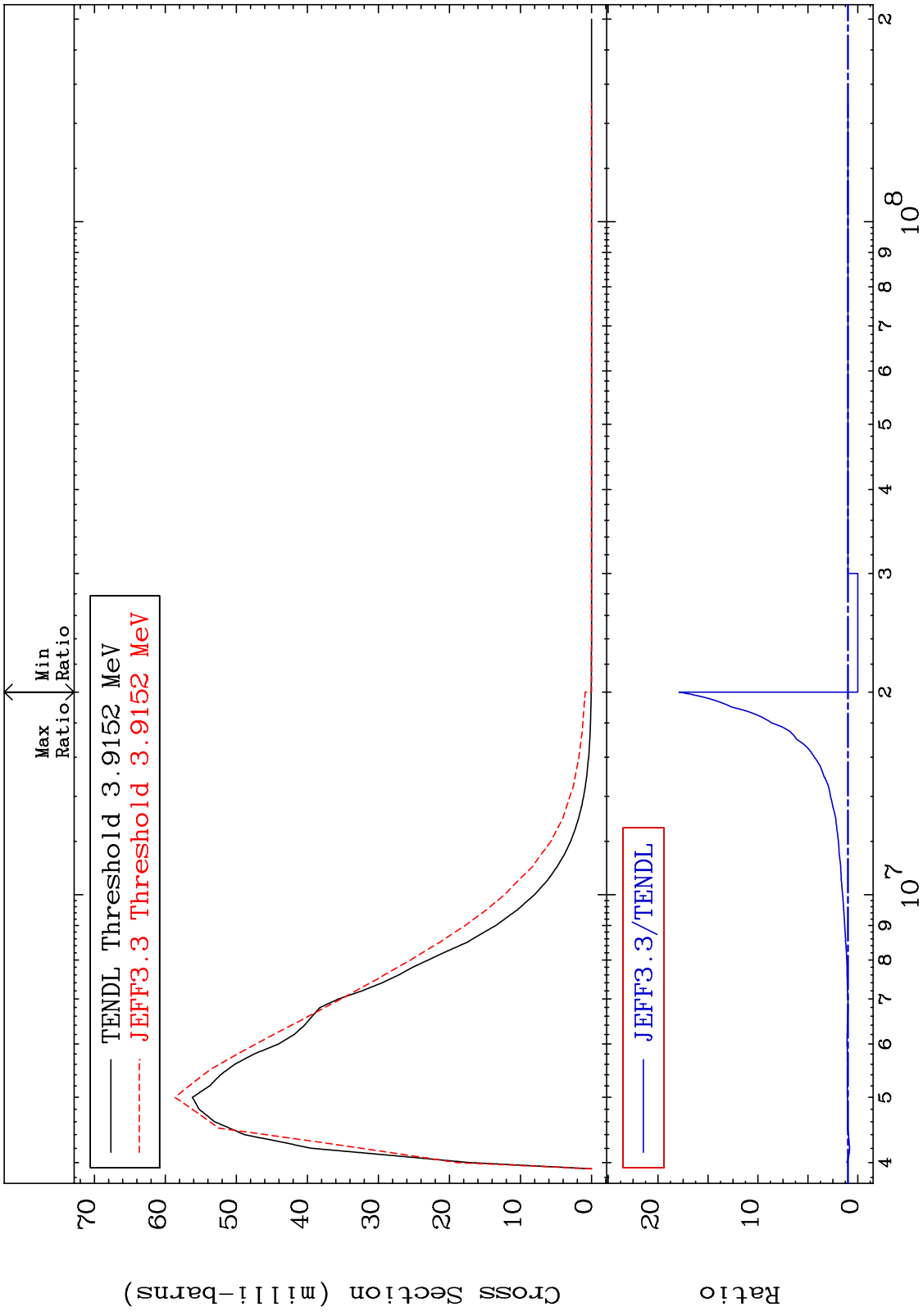
9 14-Si-30

MAT 1431 MT= 53 (n,n') Level Cross Section 14-Si-30
 -100.0 To 1708. %



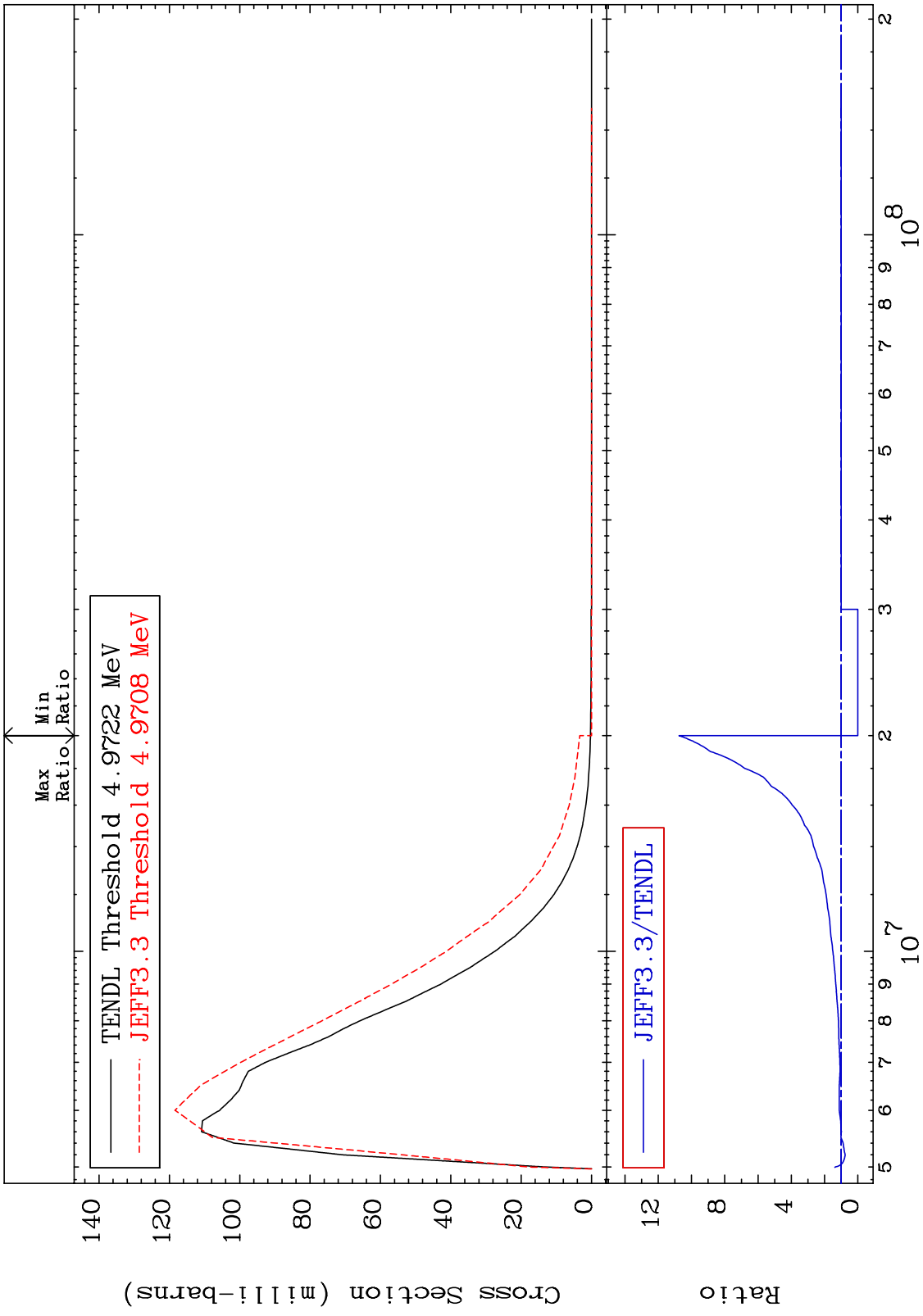
10 14-Si-30

MAT 1431 MT= 54 (n,n') Level Cross Section 14-Si-30
 -100.0 To 1690. %



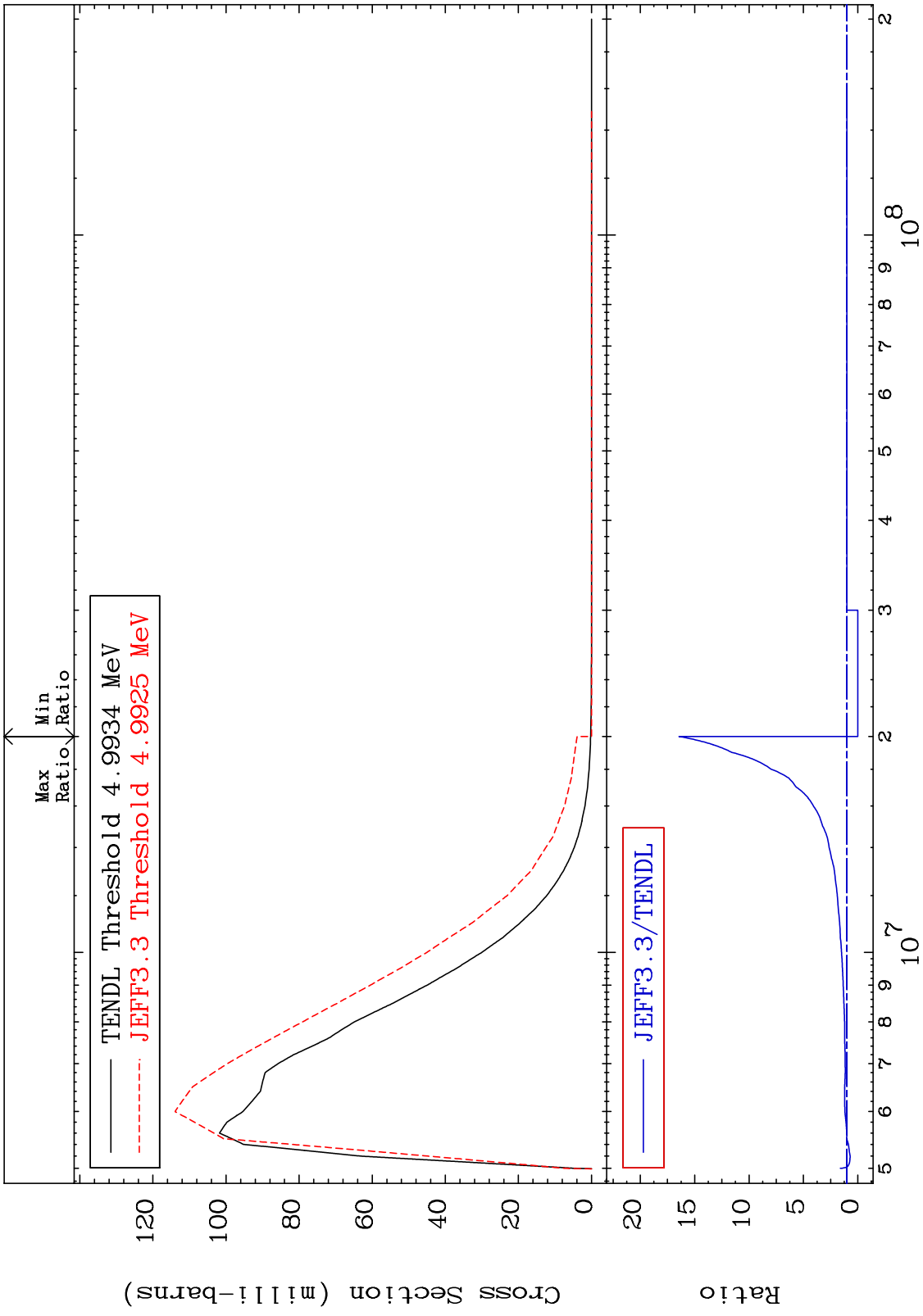
Incident Energy (eV) 14-Si-30

MAT 1431 MT= 55 (n,n') Level Cross Section -100.0 To 974.9 % 14-Si-30



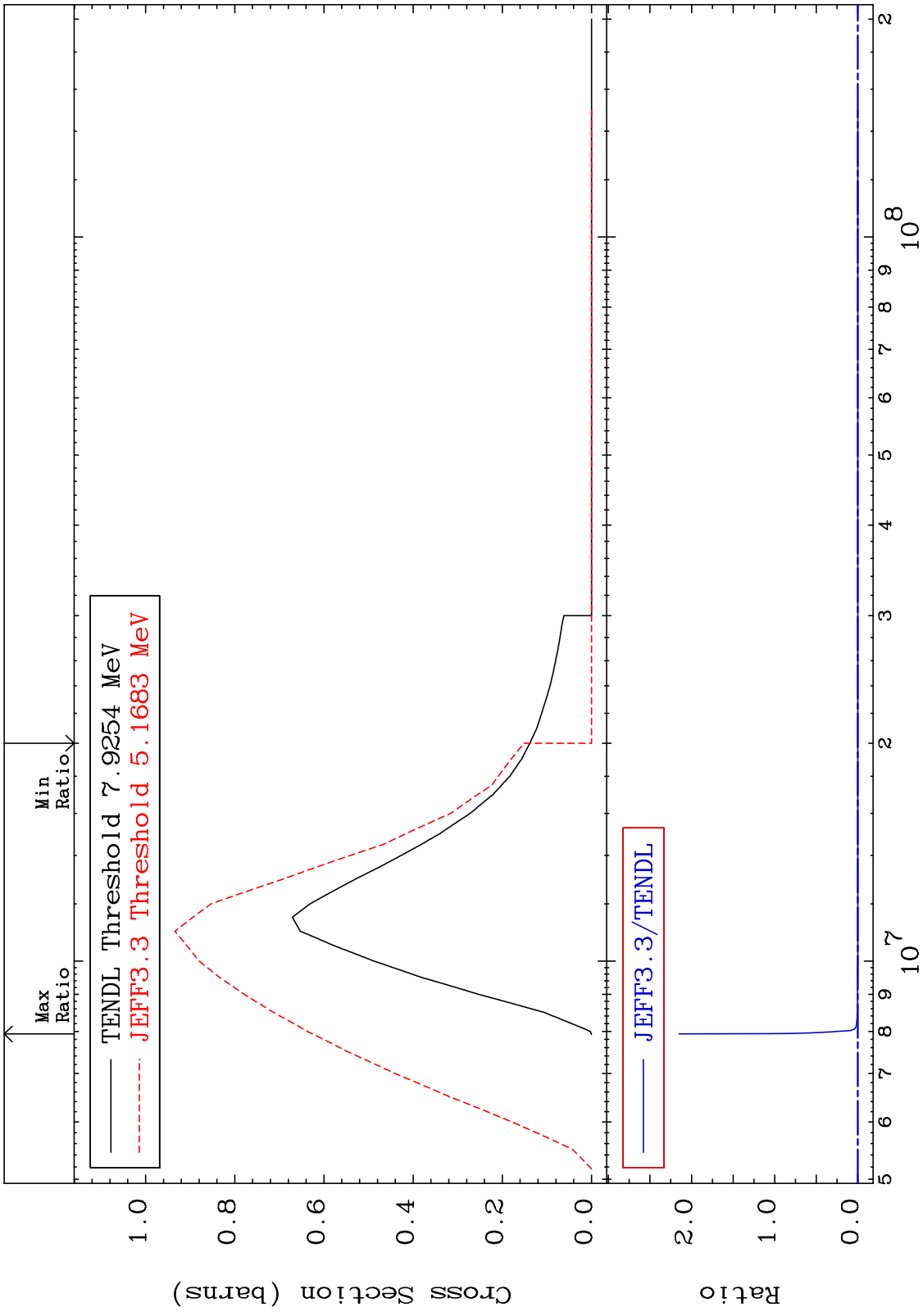
12 14-Si-30

MAT 1431 MT= 56 (n,n') Level Cross Section -100.0 To 1544. % 14-Si-30



13 14-Si-30

MAT 1431 (n,n') Continuum Cross Section -100.0 To 9999. % 14-Si-30



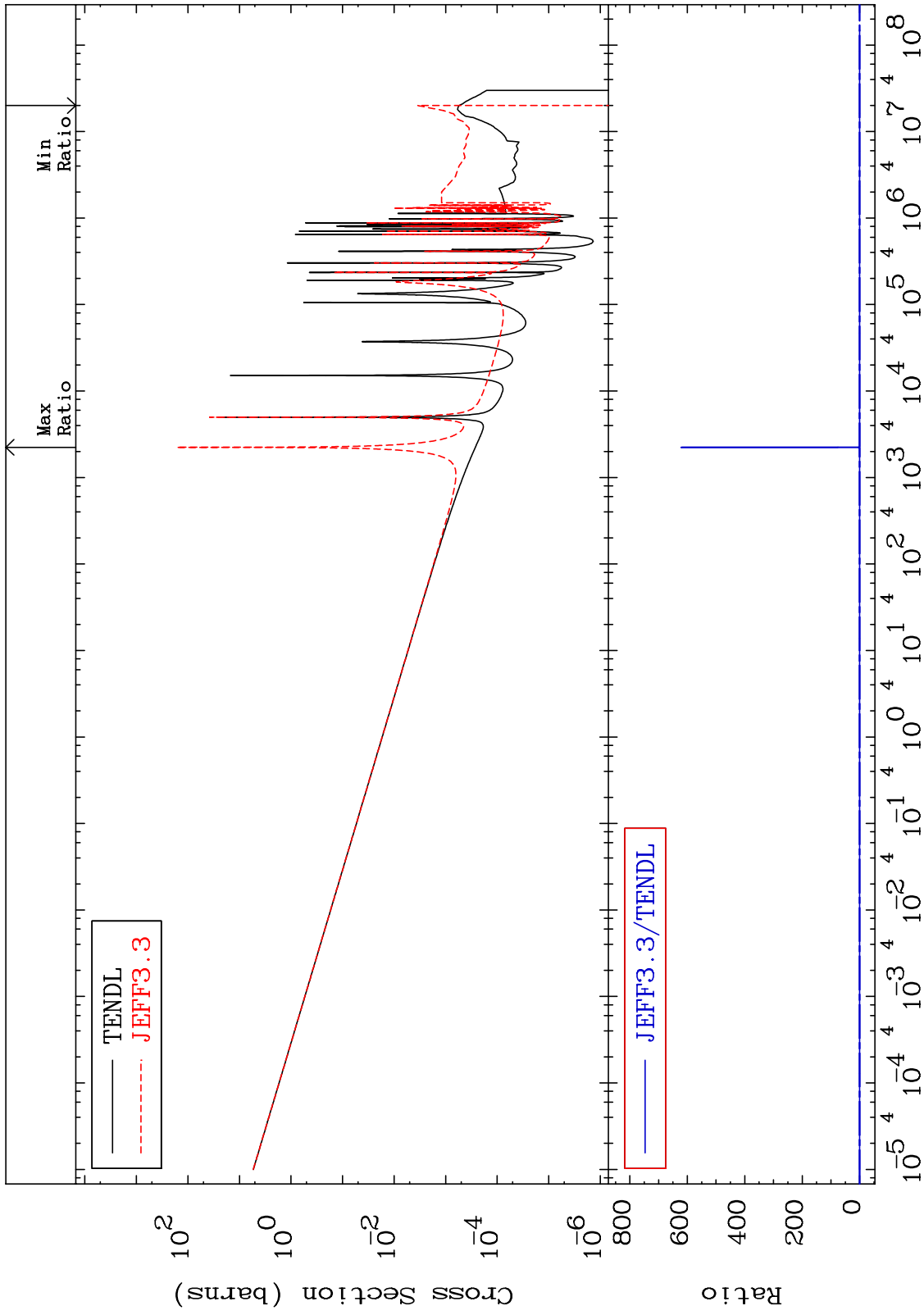
14 14-Si-30 Incident Energy (eV)

MAT 1431

(n, γ)
Cross Section

14-Si-30

-100.0 To 9999. %

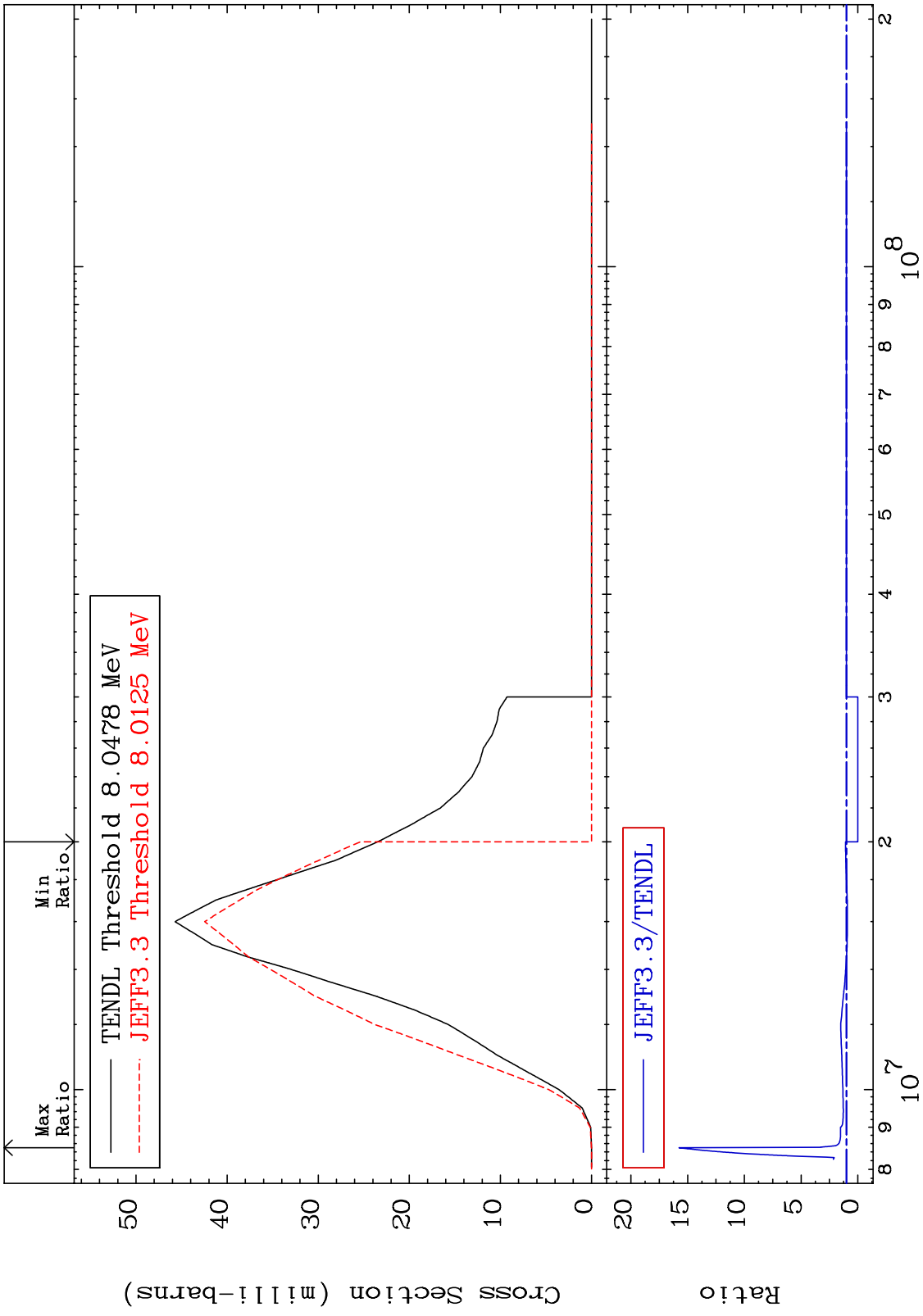


15

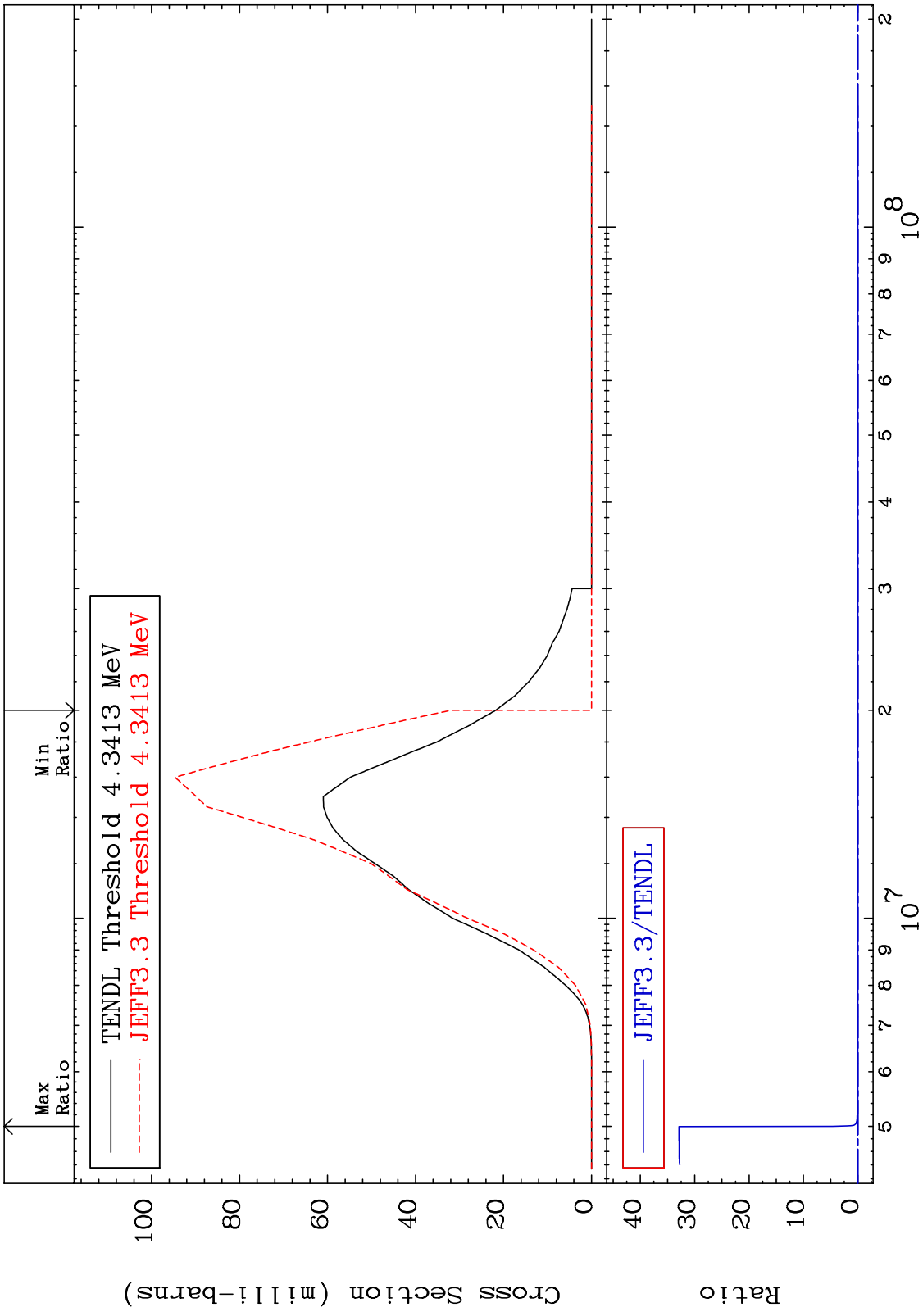
Incident Energy (eV)

14-Si-30

MAT 1431 (n,p) 14-Si-30
Cross Section -100.0 To 1476. %

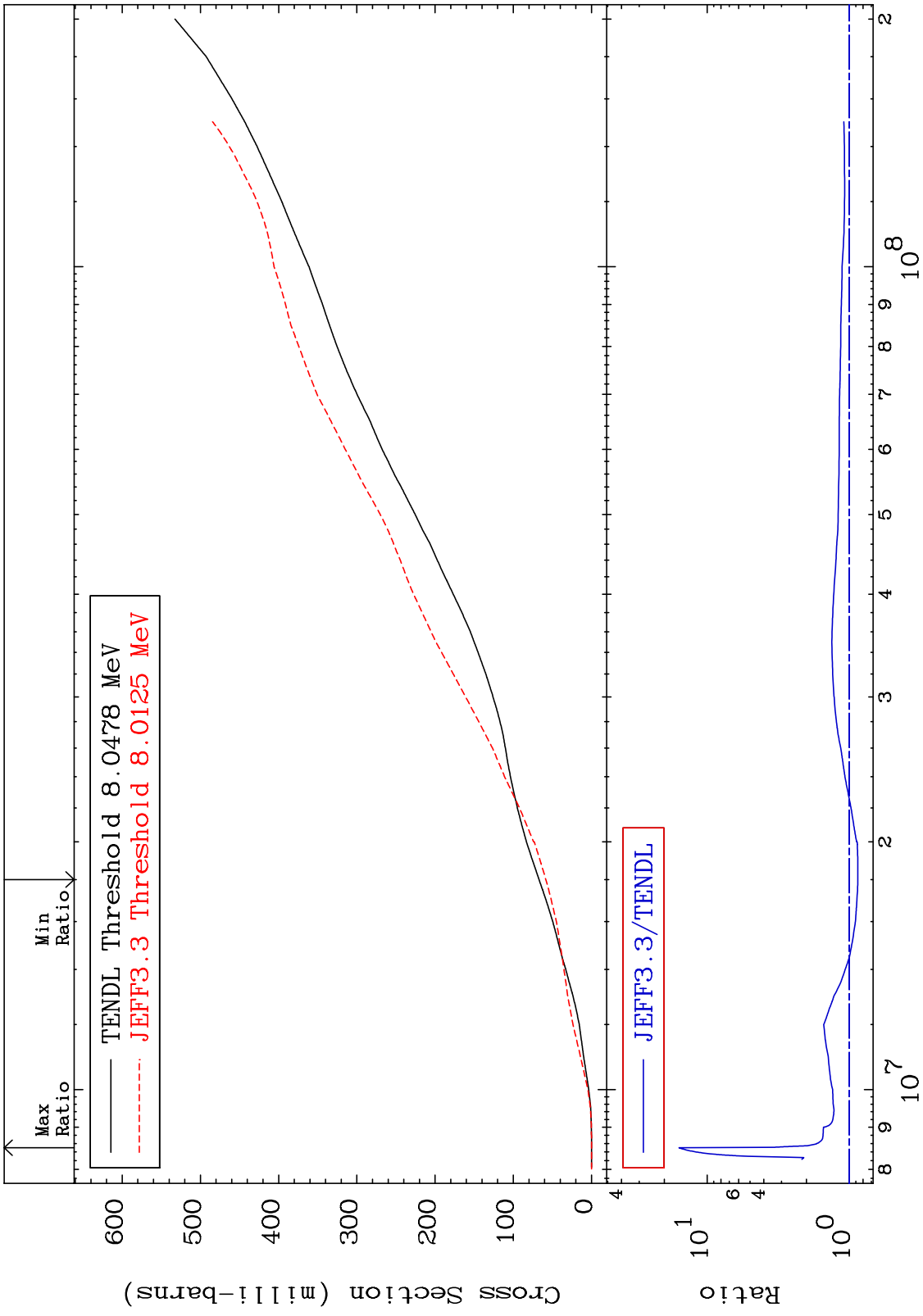


MAT 1431 $^{14}\text{Si-30}$ (n, α) Cross Section -100.0 To 9999. %



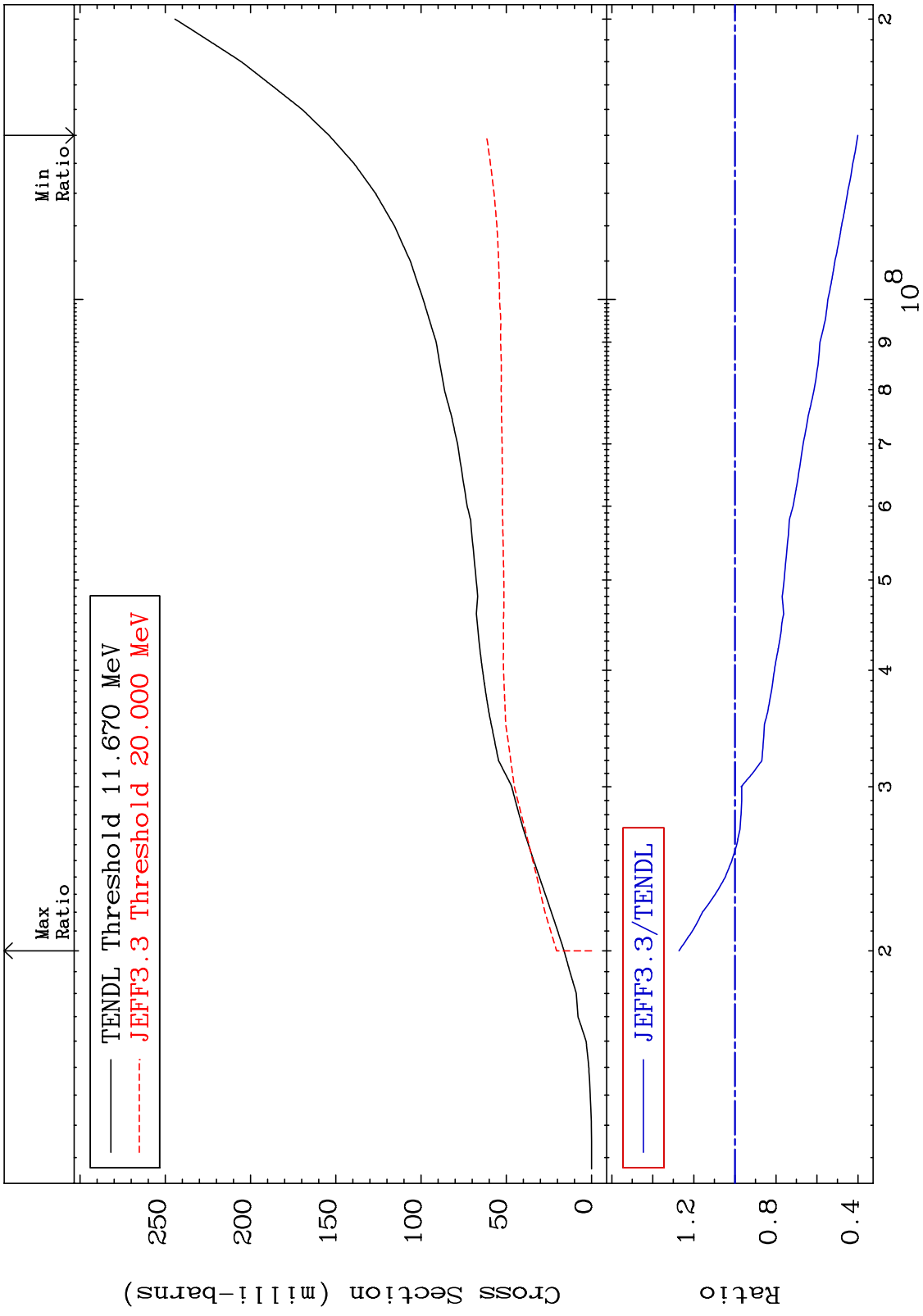
17 $^{14}\text{Si-30}$ Incident Energy (eV)

MAT 1431 Hydrogen Production Cross Section 14-Si-30
 -12.93 To 1476. %

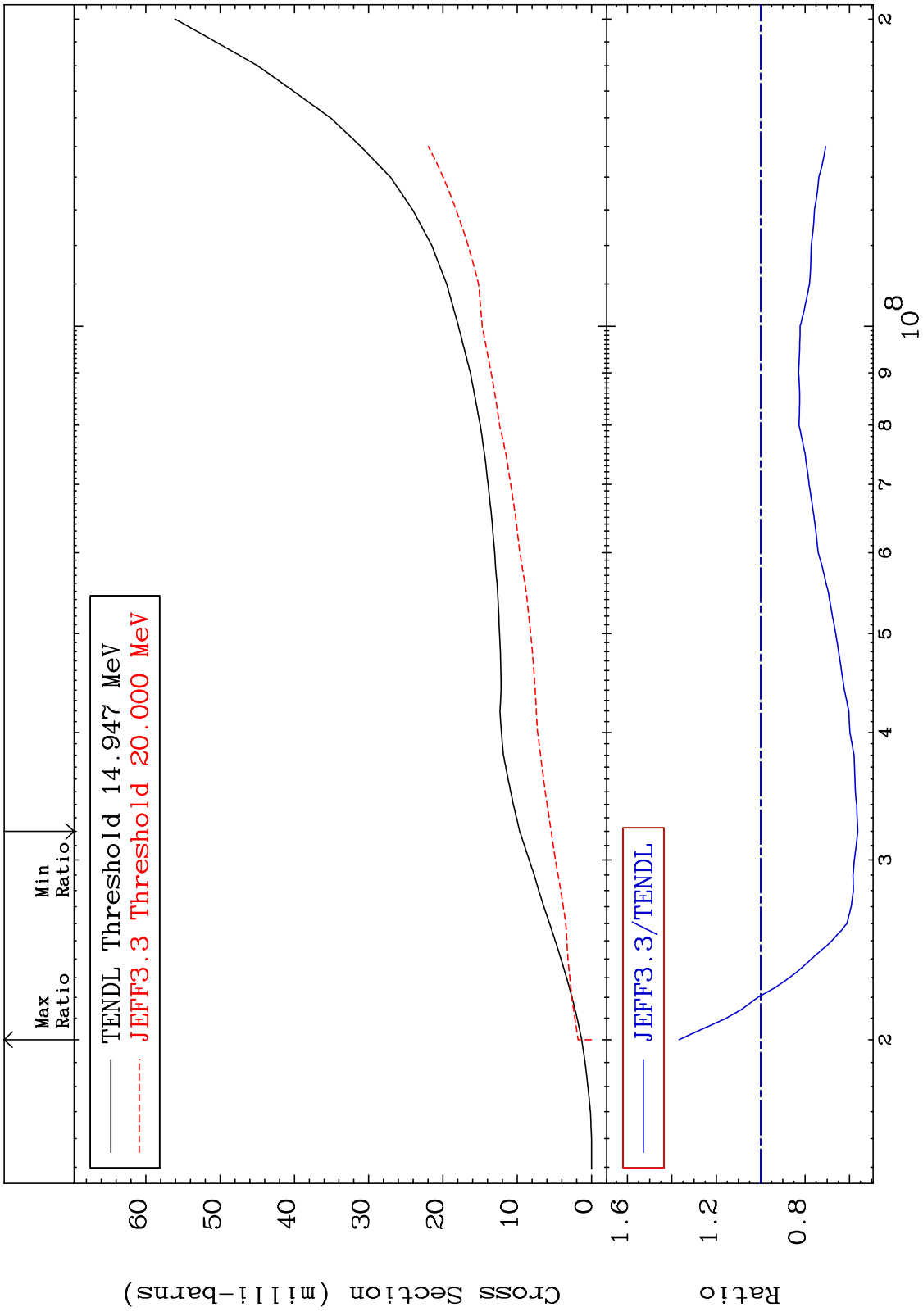


14-Si-30

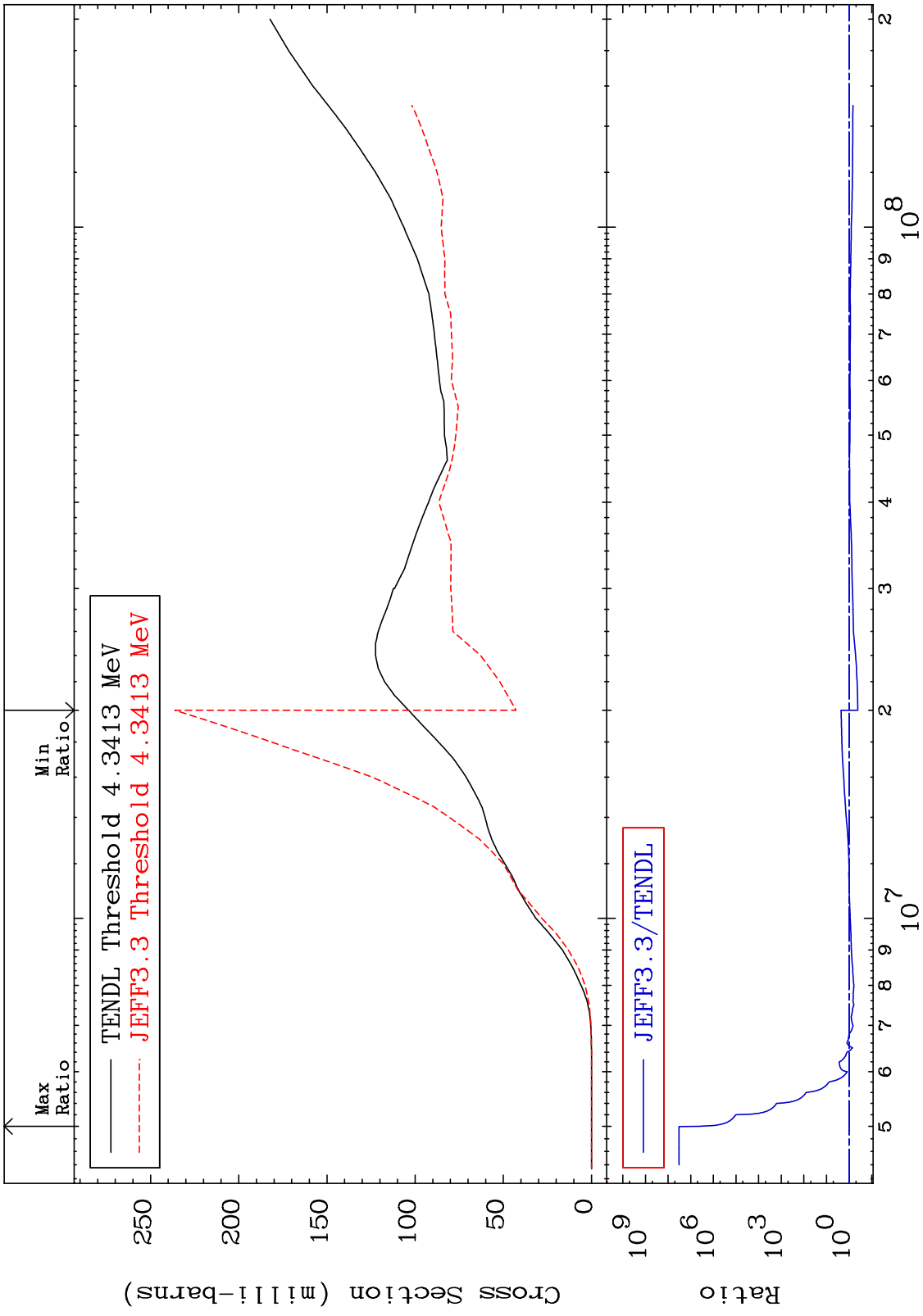
MAT 1431 Deuterium Production Cross Section 14-Si-30 -59.91 To 27.22 %



MAT 1431 Tritium Production Cross Section 14-Si-30 -43.79 To 36.77 %



MAT 1431 He-4 Production Cross Section 14-Si-30
 -58.73 To 9999. %

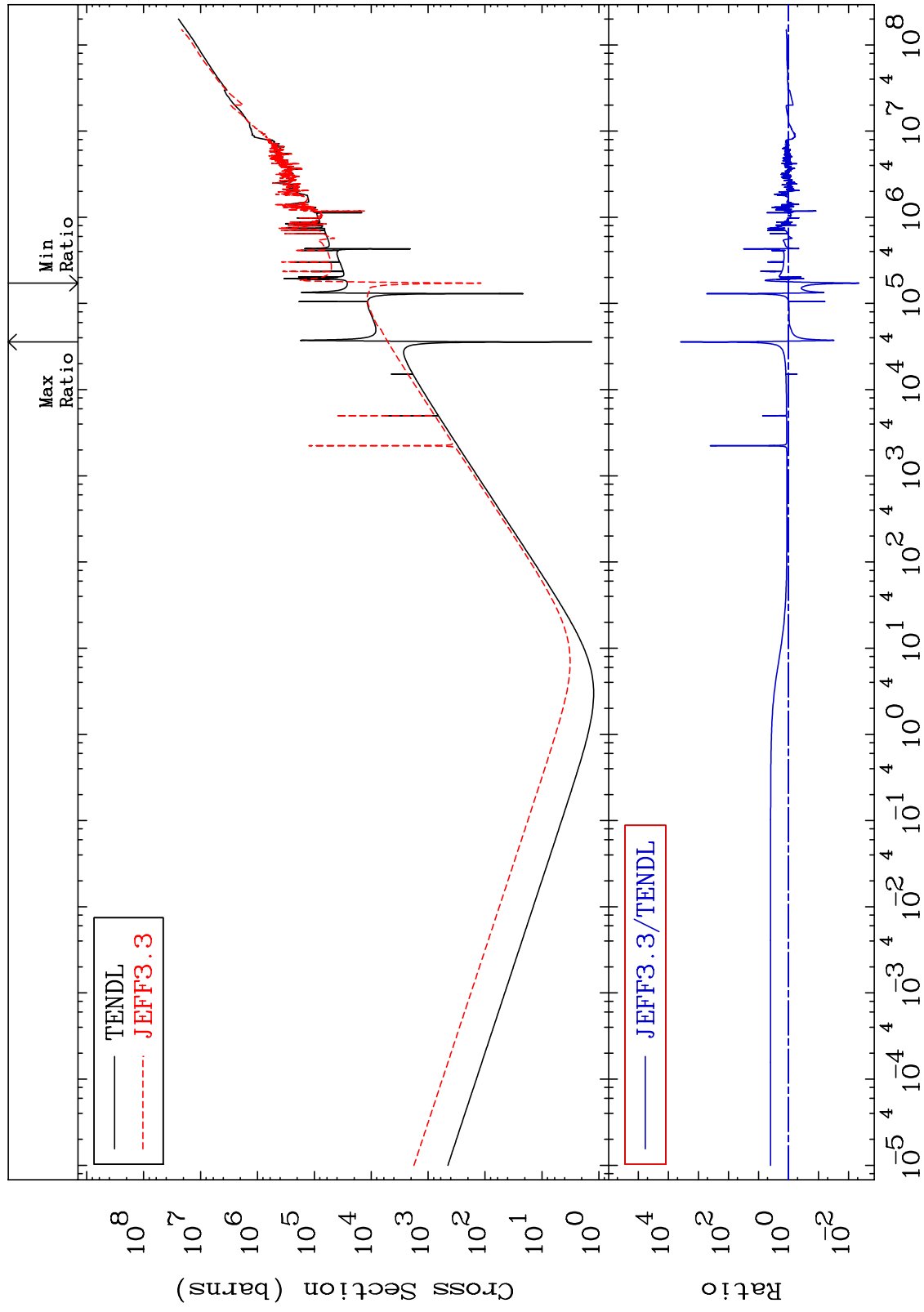


21 14-Si-30 Incident Energy (eV)

MAT 1431

Kerma total (eV-barns)
Cross Section

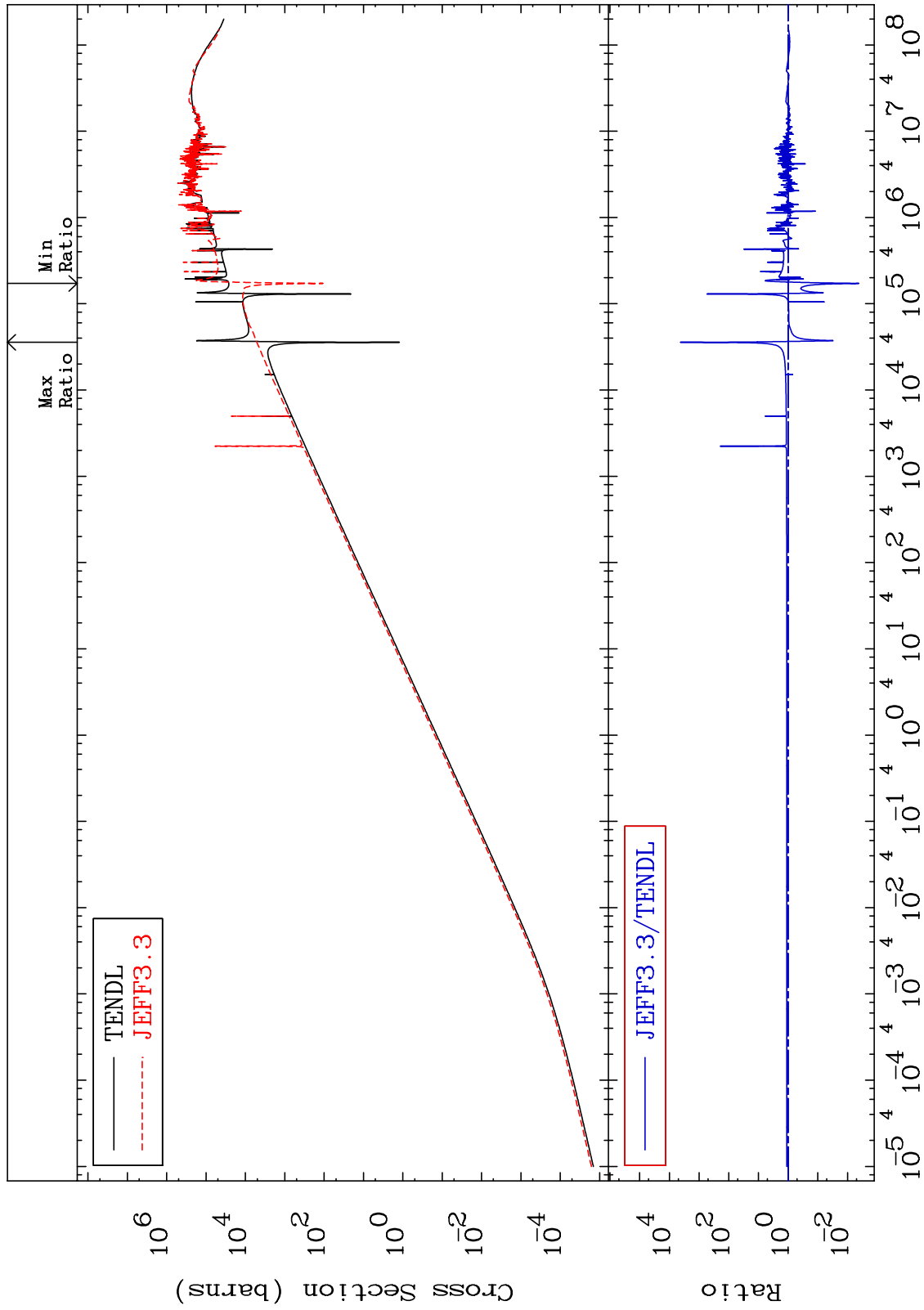
14-Si-30
-99.55 To 9999. %



MAT 1431

Kerma elastic
Cross Section

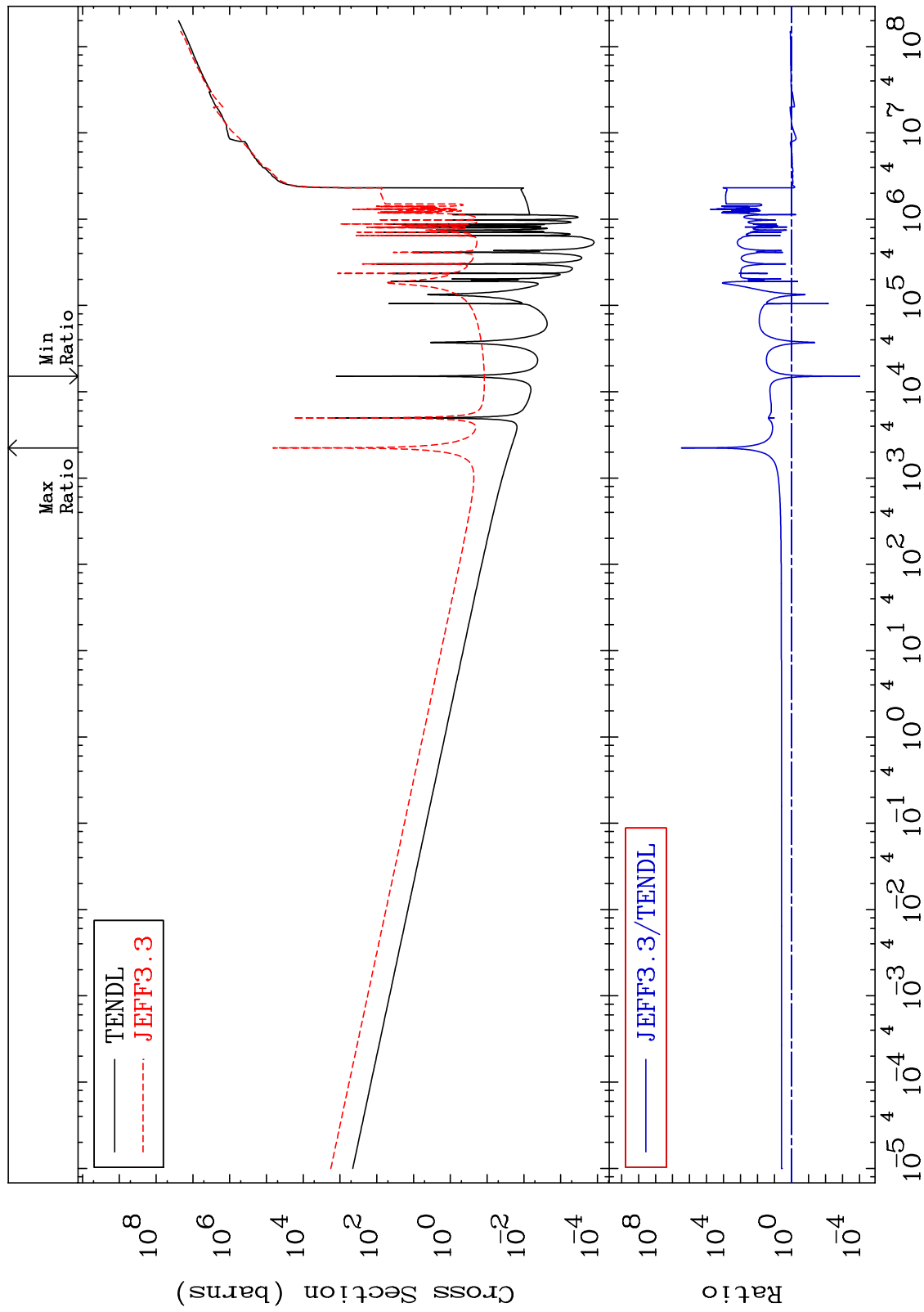
14-Si-30
-99.59 To 9999. %



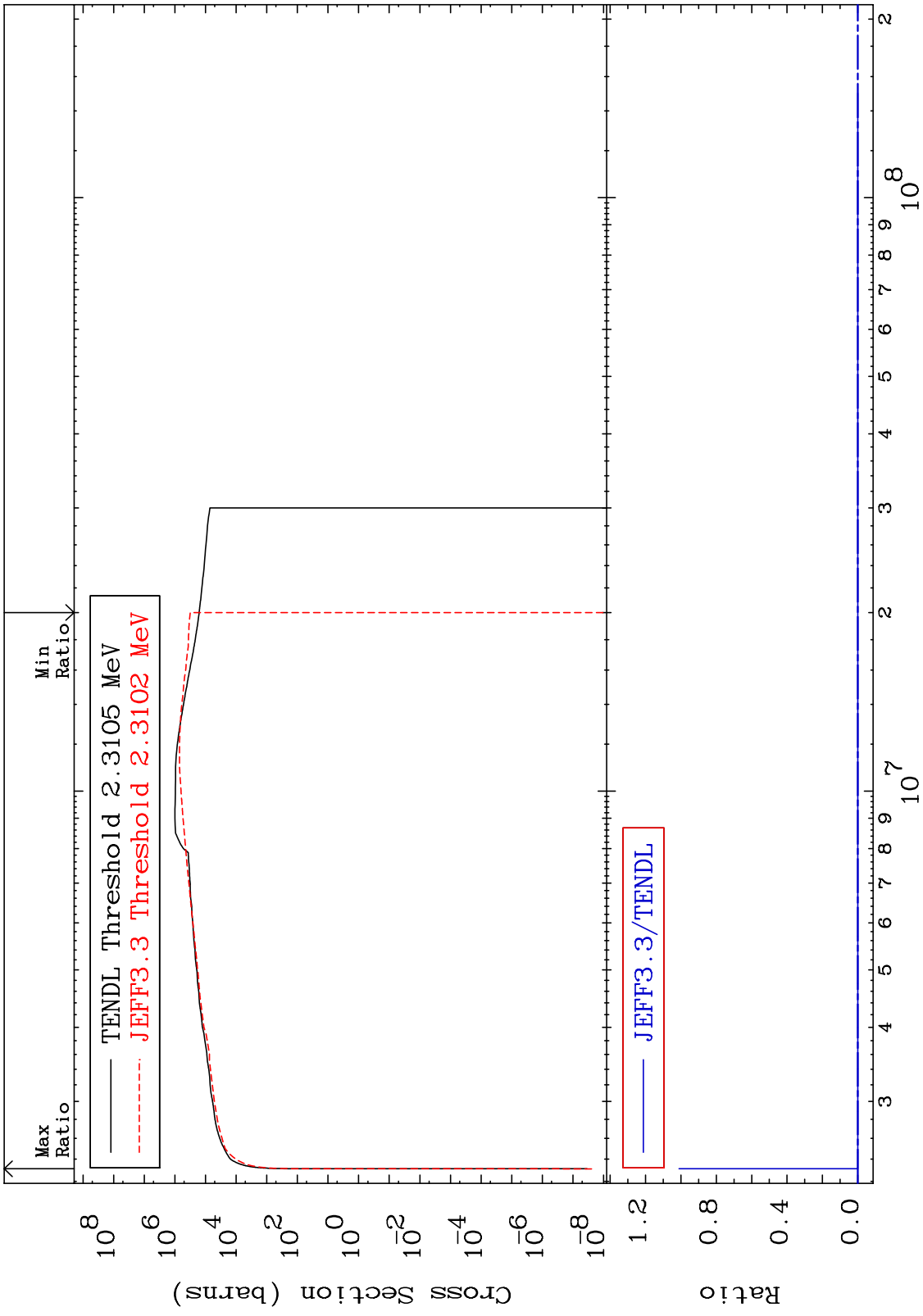
MAT 1431

Kerma non-elastic (all but mt2)
Cross Section

14-Si-30
-99.99 To 9999. %



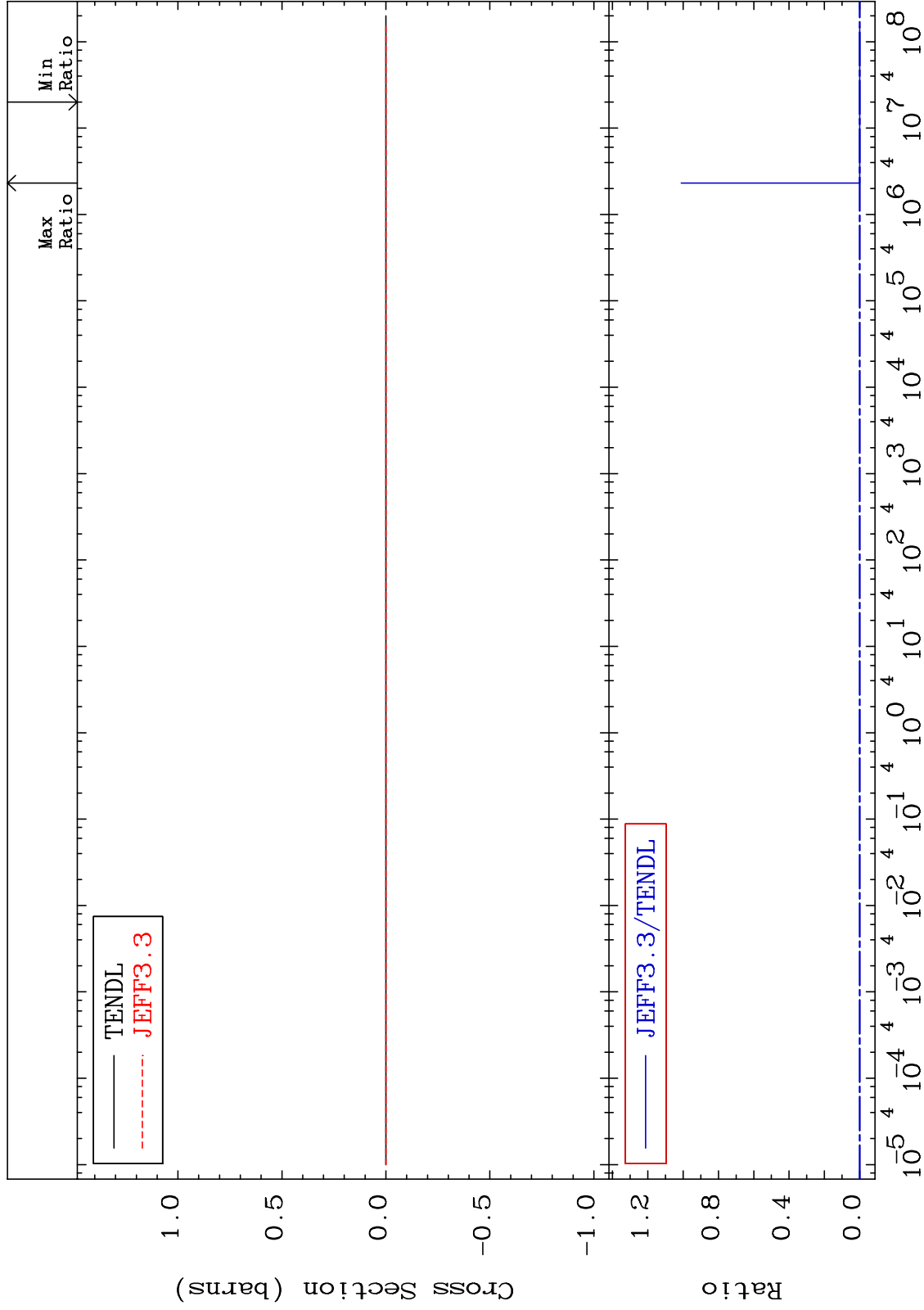
MAT 1431 Kerma inelastic (mt51-91) 14-Si-30
 -100.0 To 9999. %



MAT 1431

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

14-Si-30
-100.0 To 9999. %



26

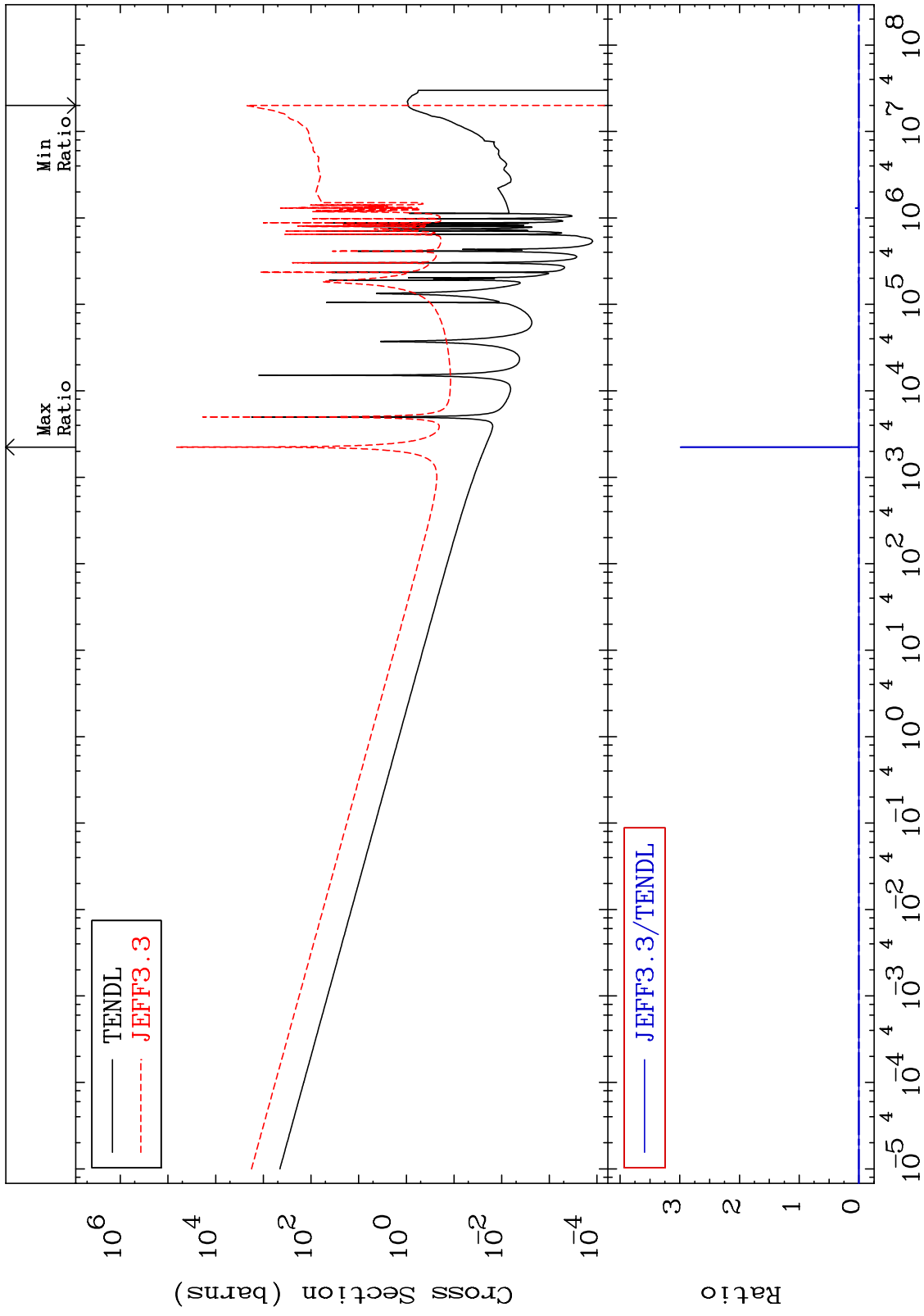
Incident Energy (eV)

14-Si-30

MAT 1431

Kerma capture (mt102)
Cross Section

14-Si-30
-100.0 To 9999. %



27

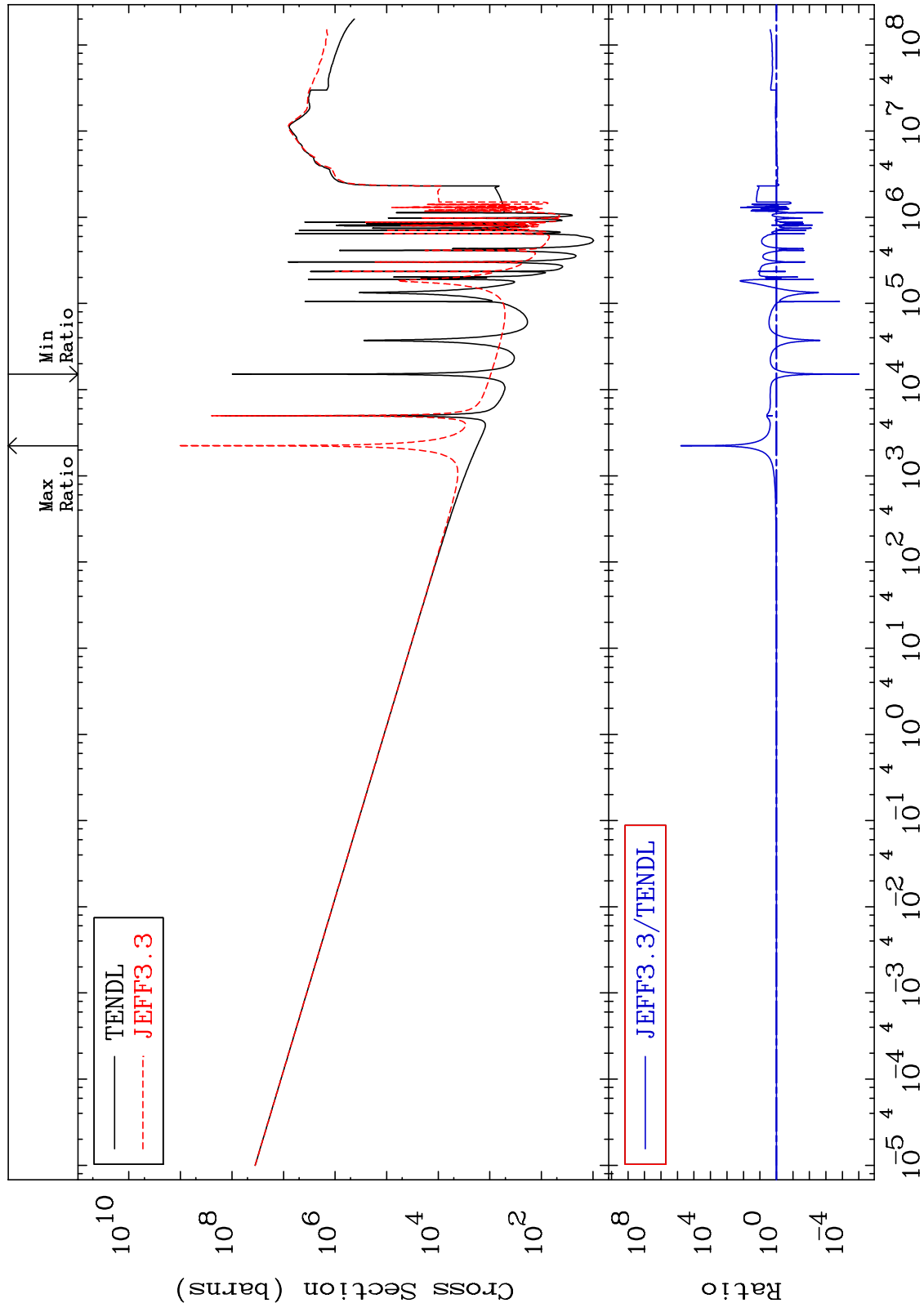
Incident Energy (eV)

14-Si-30

MAT 1431

Total photon (eV-barns)
Cross Section

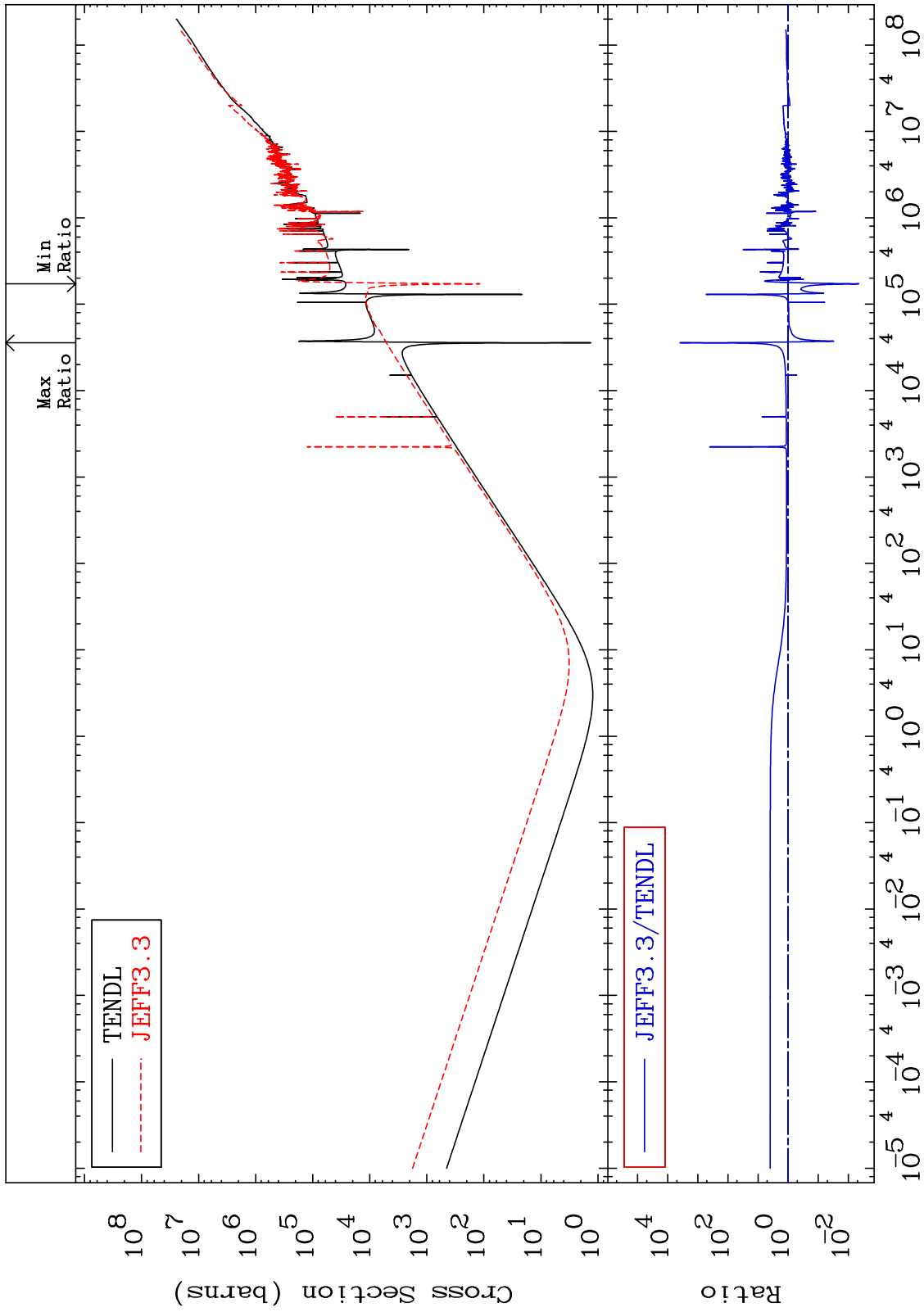
14-Si-30
-100.0 To 9999. %



MAT 1431

Total kinematic kerma (high limit)
Cross Section

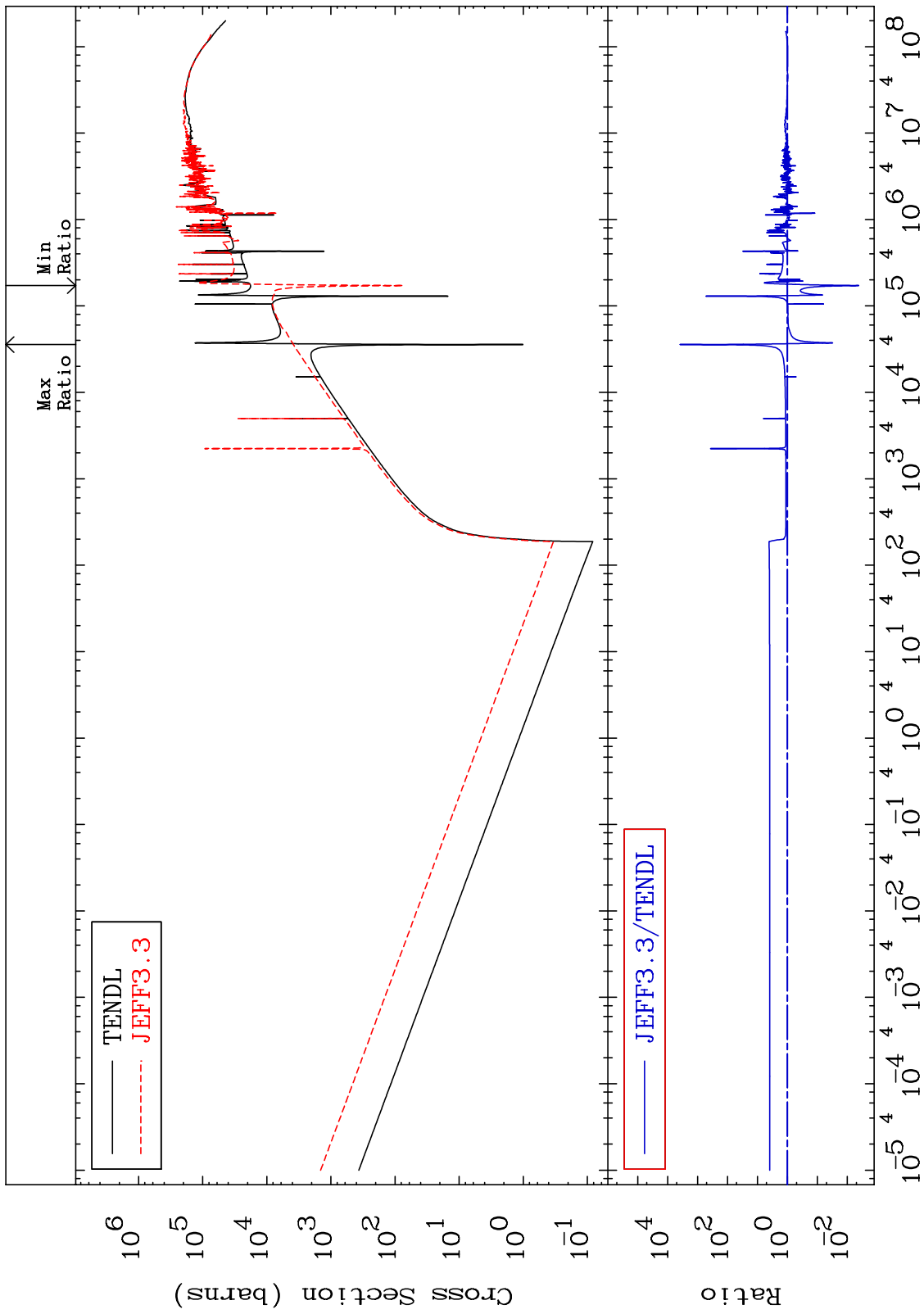
14-Si-30
-99.55 To 9999. %



MAT 1431

Dpa total (eV-barns)
Cross Section

14-Si-30
-99.59 To 9999. %



30

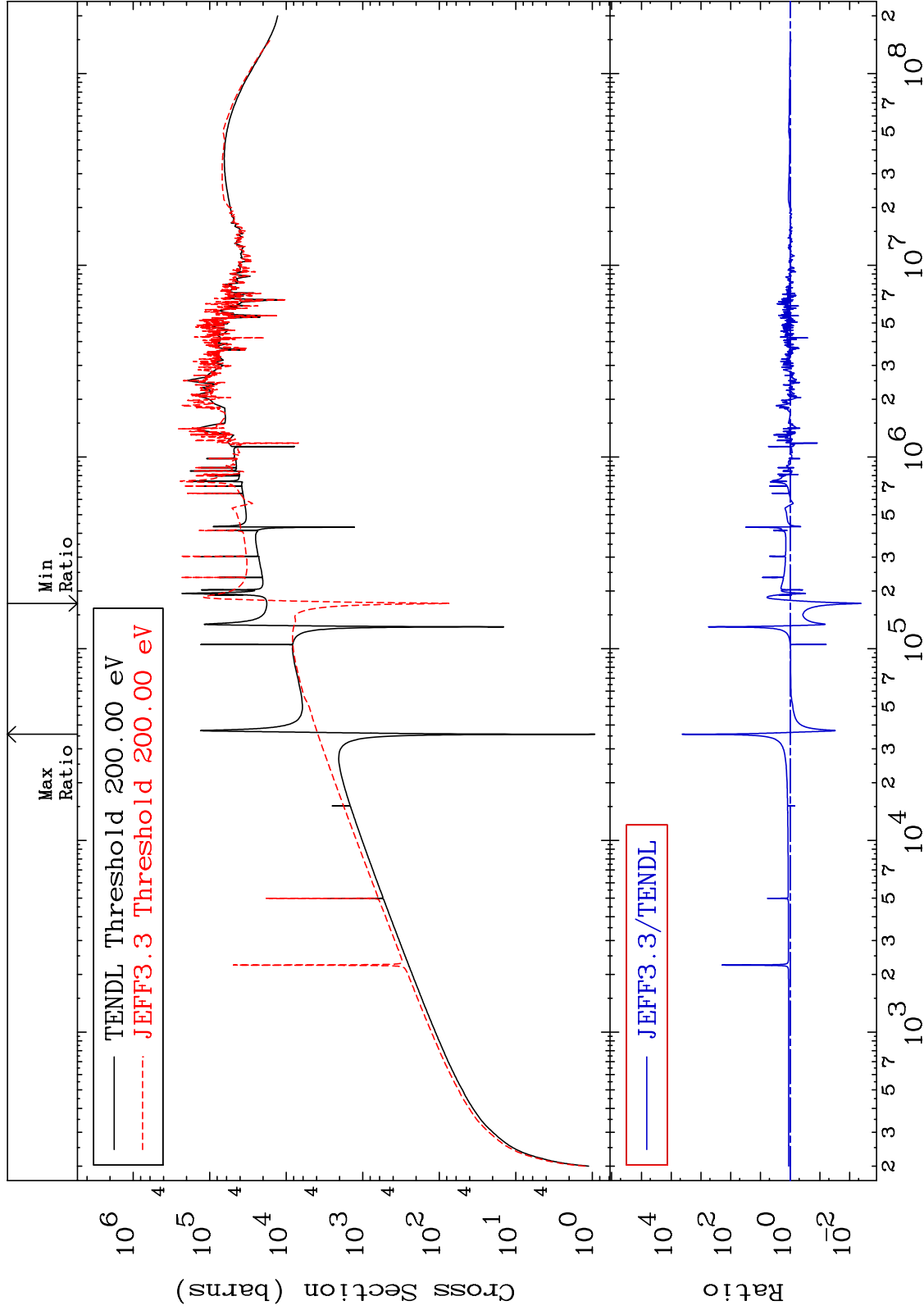
Incident Energy (eV)

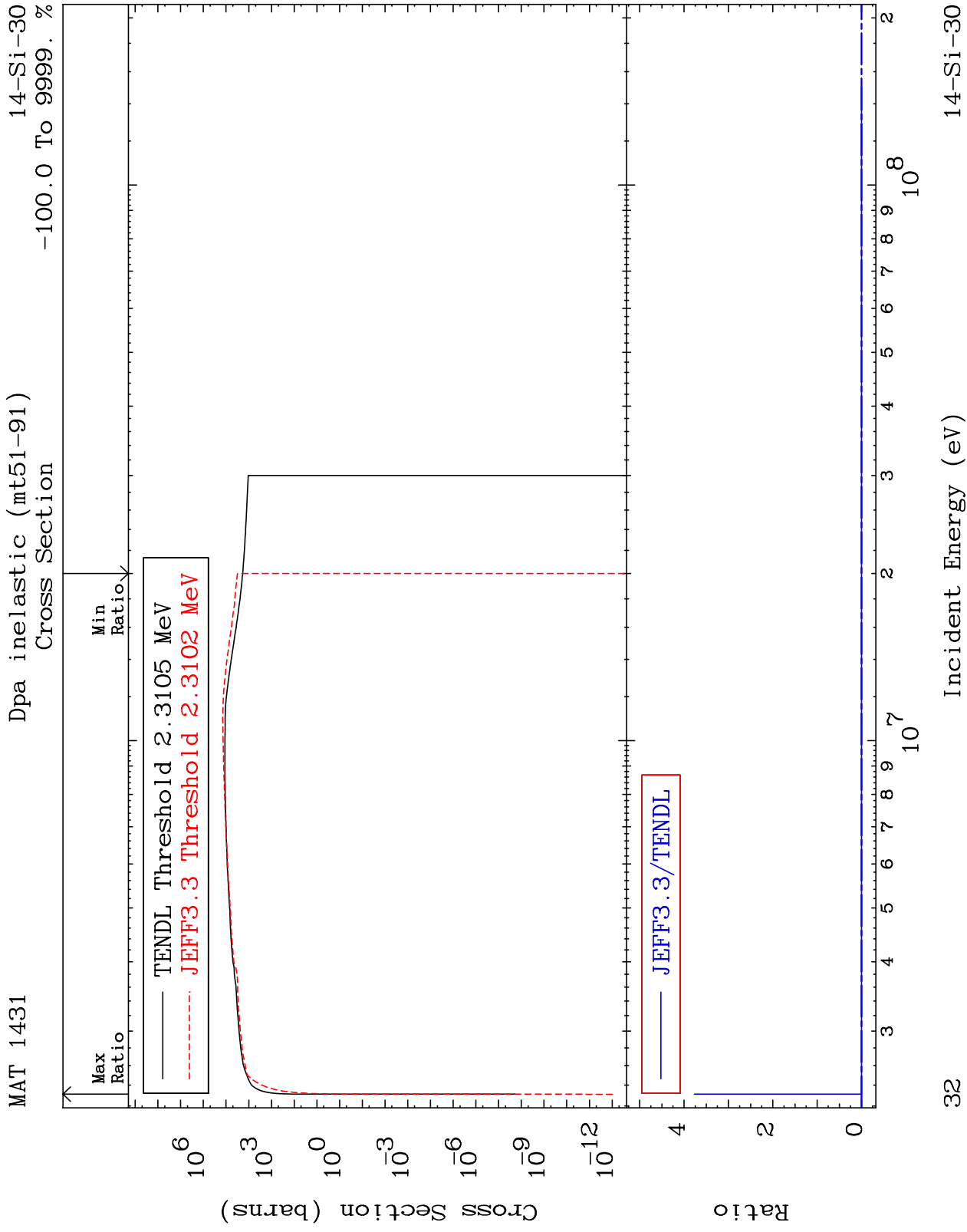
14-Si-30

MAT 1431

Dpa elastic (mt2)
Cross Section

14-Si-30
-99.59 To 9999. %





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

