

Program Complot
(Version 2021-1)

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

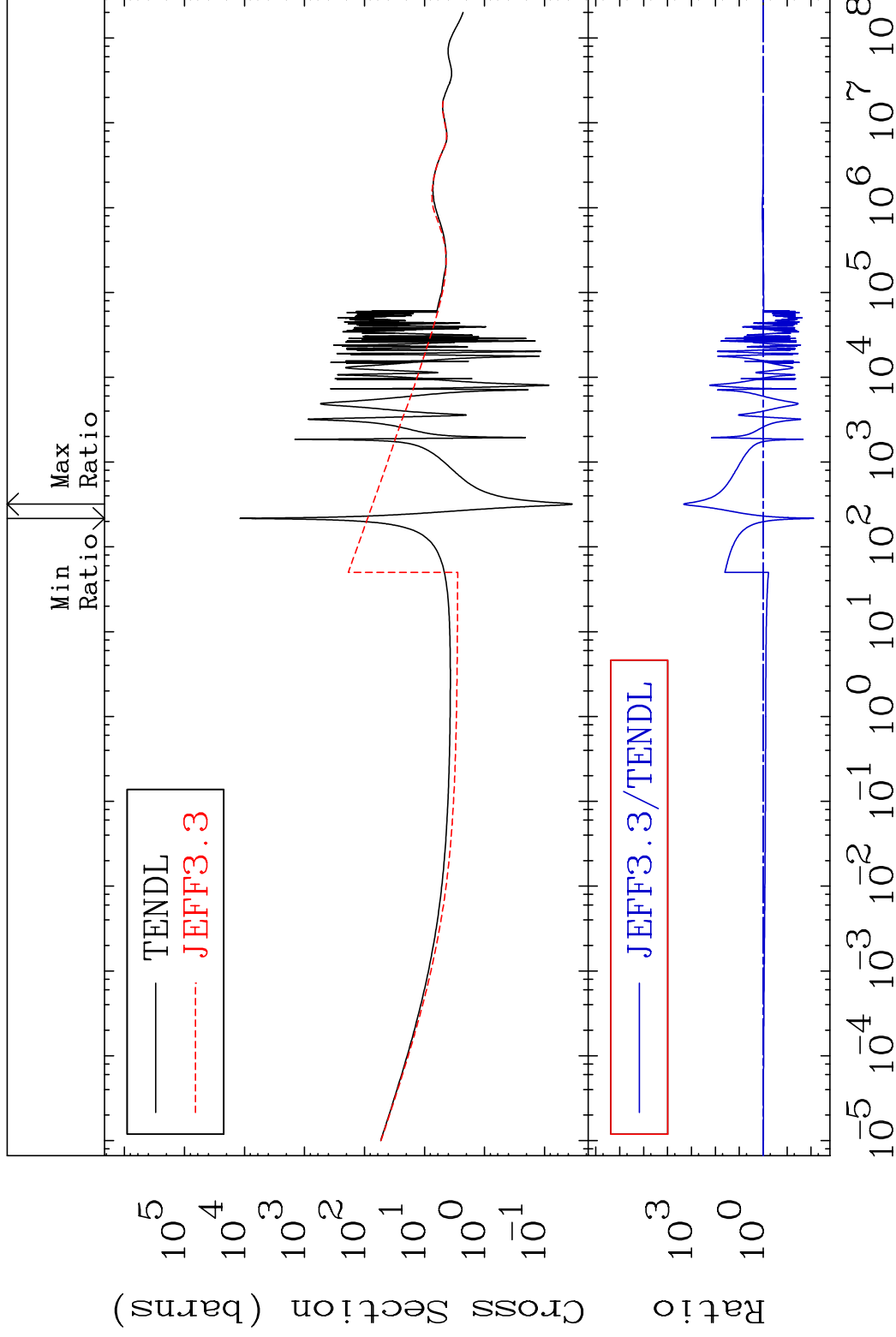
MAT 5849

Total

58-Ce-144

Cross Section

-99.26 To 9999. %



1

Incident Energy (eV)

58-Ce-144

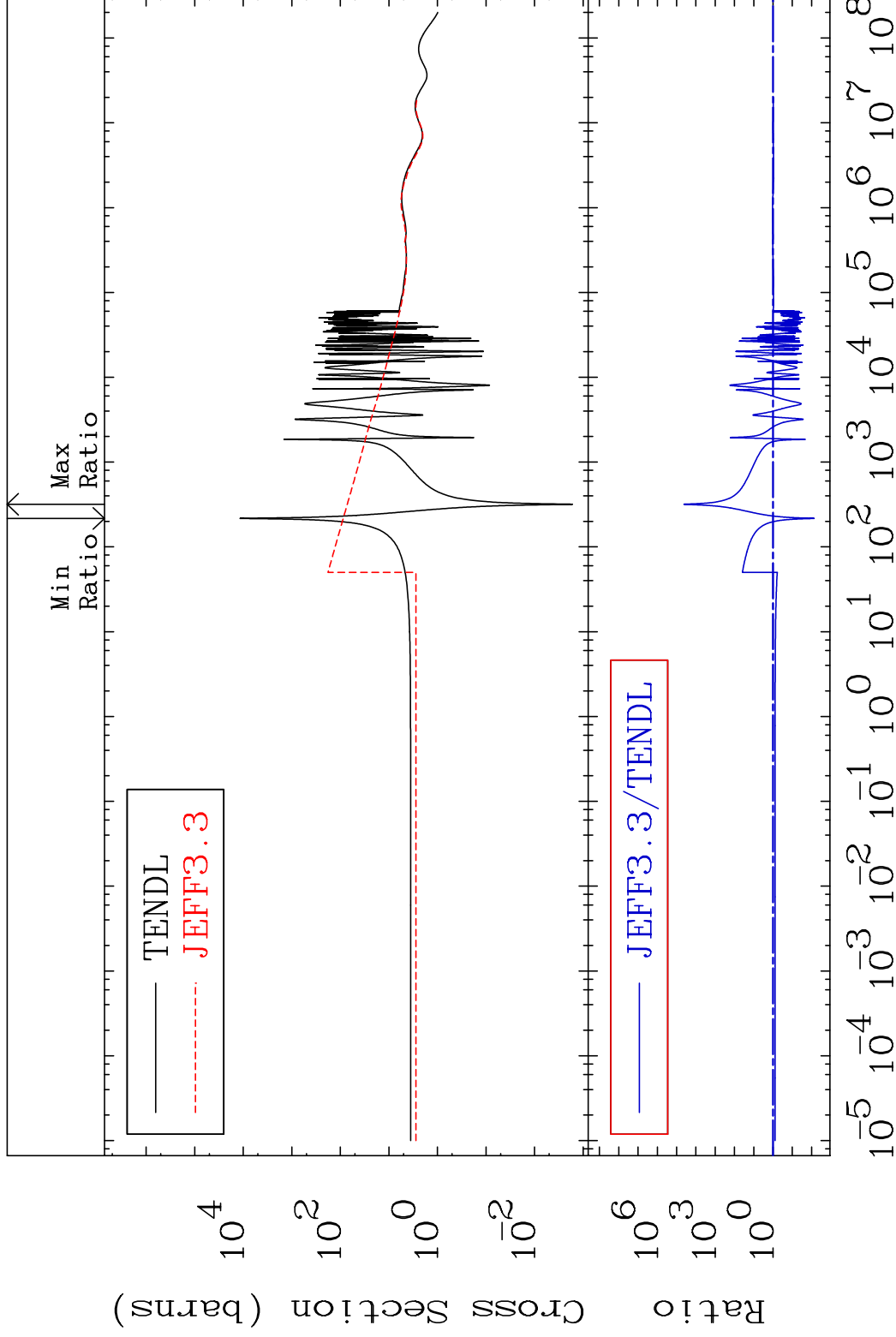
MAT 5849

Elastic

58-Ce-144

Cross Section

-99.26 To 9999. %

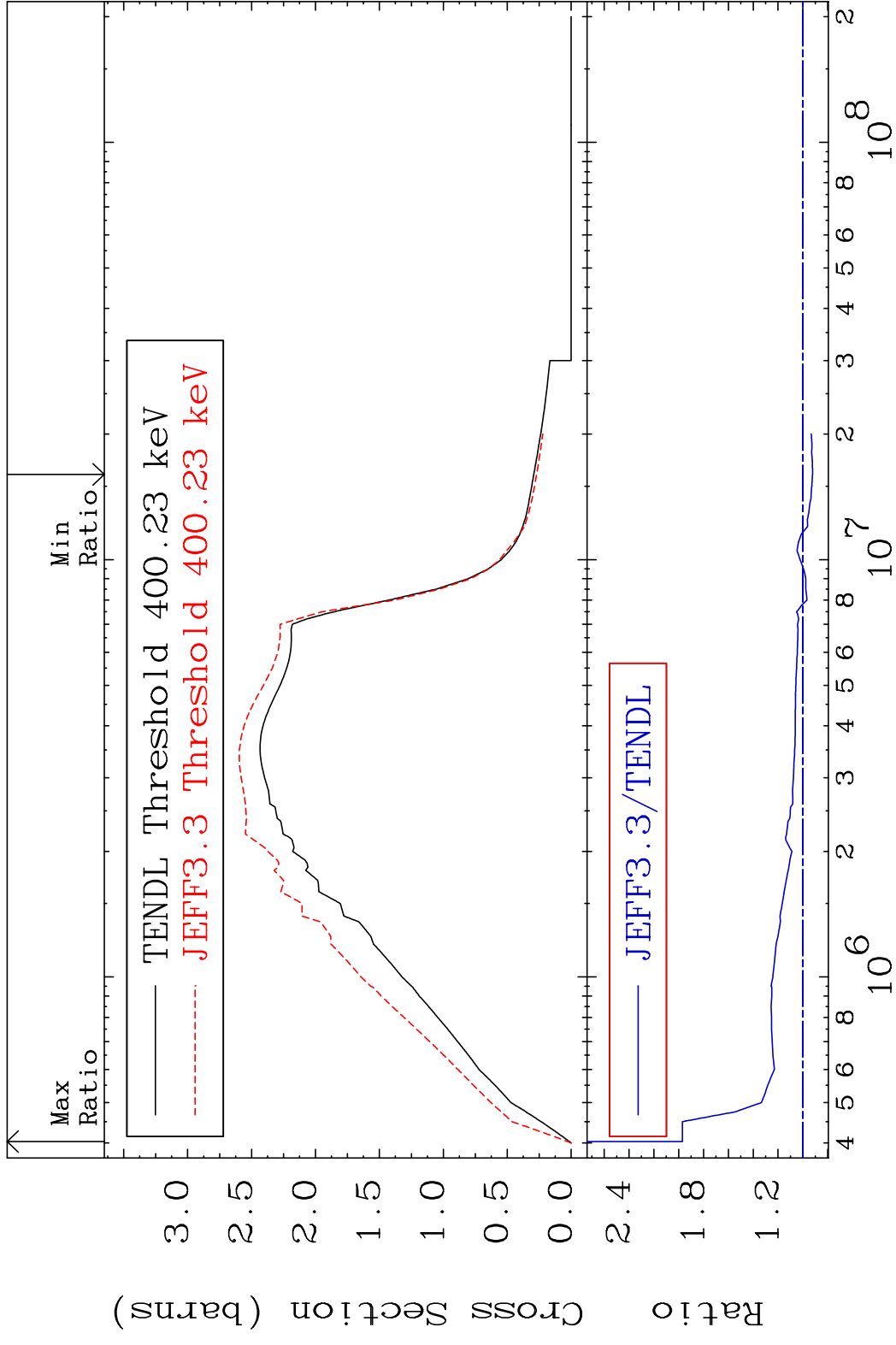


2

Incident Energy (eV)

58-Ce-144

MAT 5849 Inelastic 58-Ce-144
 Cross Section -7.791 To 97.06 %



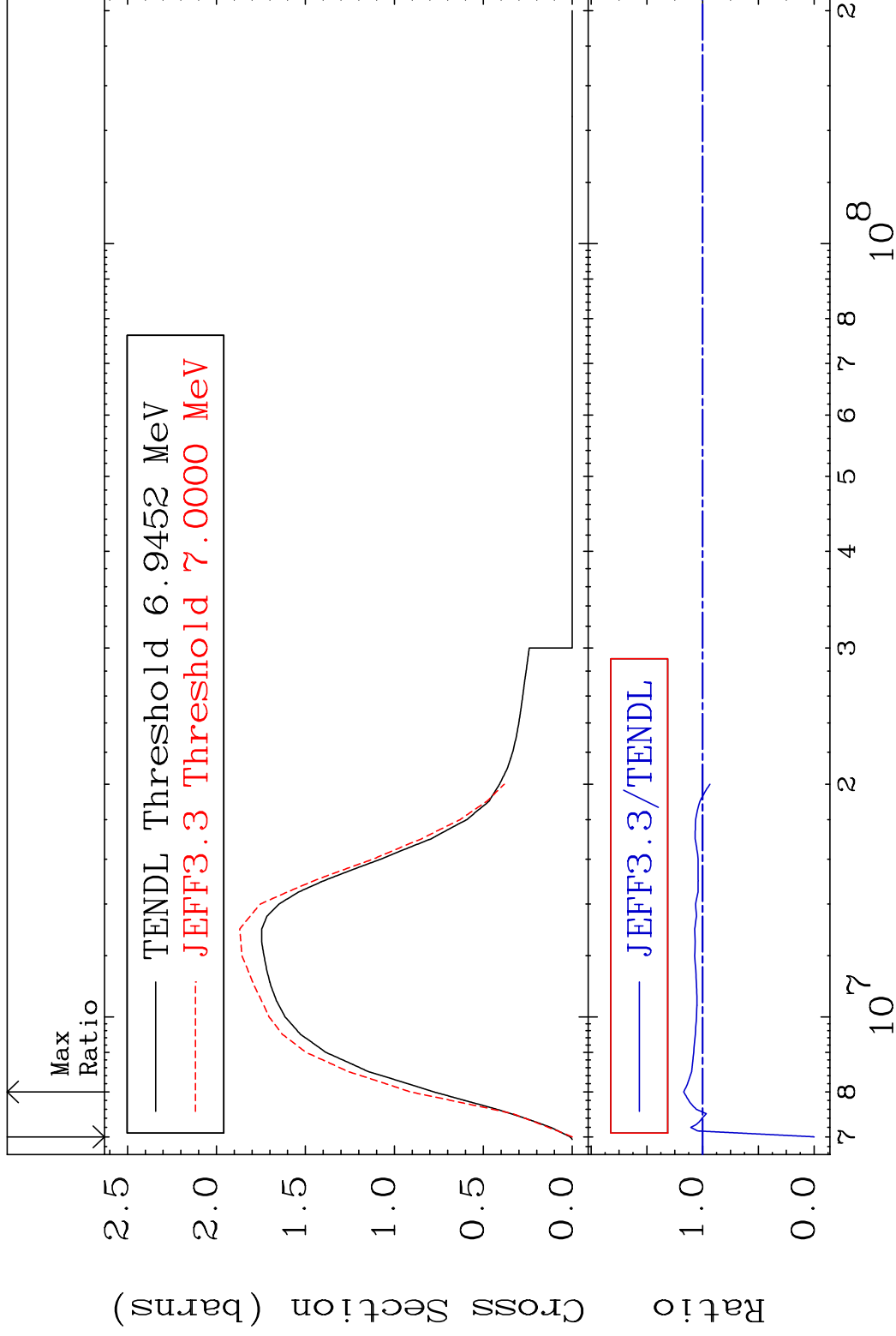
3 Incident Energy (eV) 58-Ce-144

MAT 5849

(n,2n)

58-Ce-144

Cross Section -100.0 To 17.04 %



4

Incident Energy (eV)

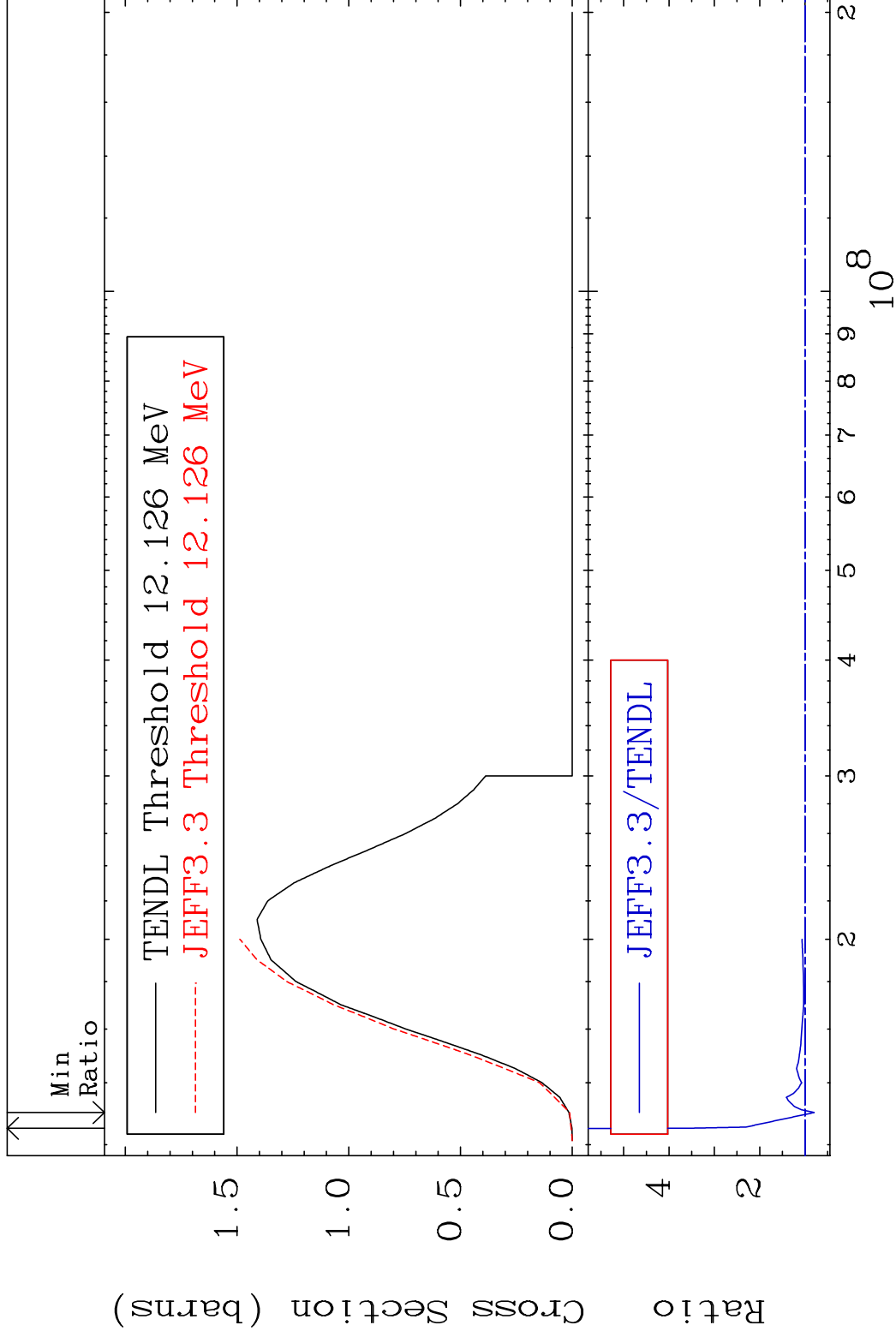
58-Ce-144

MAT 5849

(n,3n)

58-Ce-144

Cross Section -20.01 To 267.7 %



5

Incident Energy (eV)

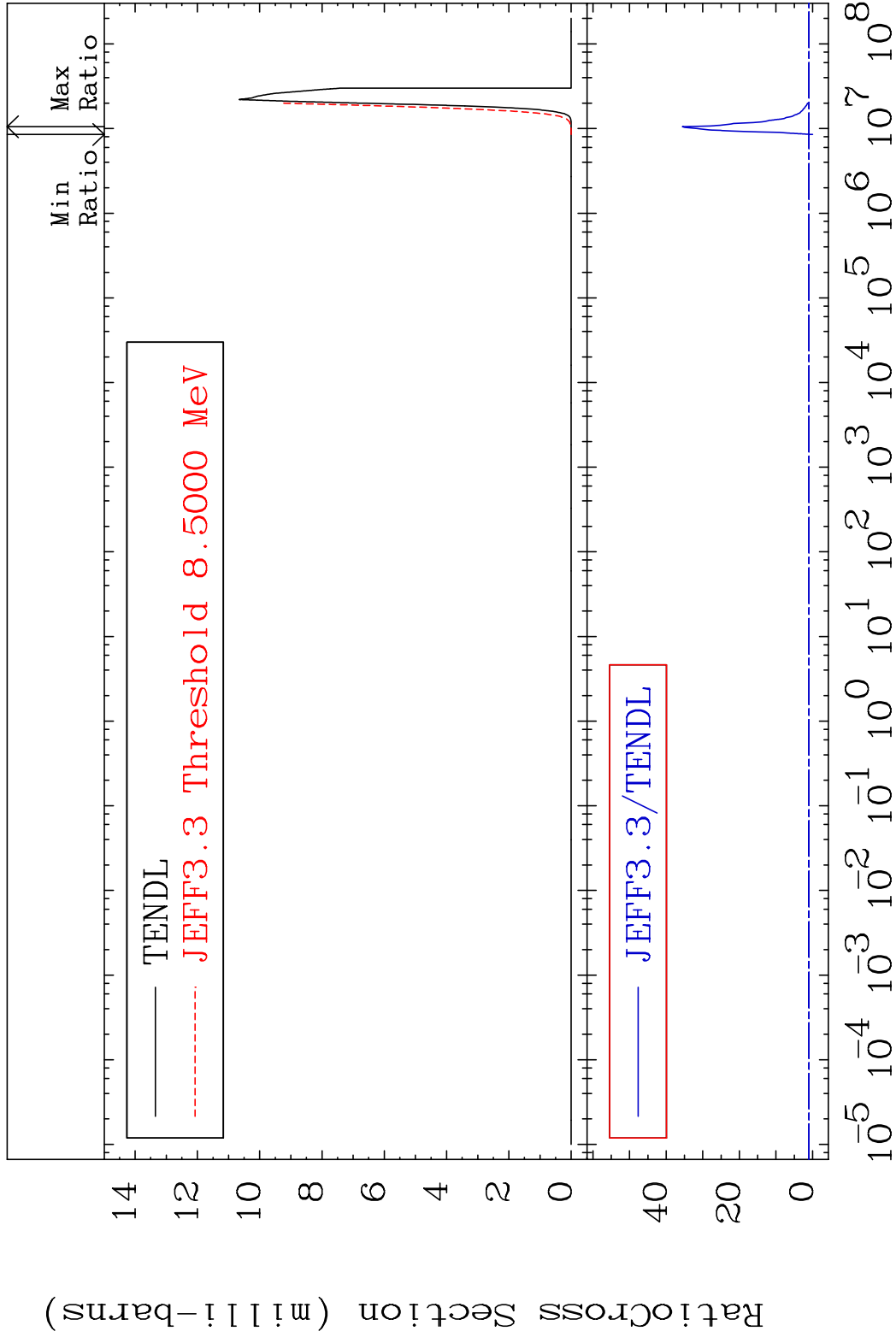
58-Ce-144

MAT 5849

(n, n') α

58-Ce-144

Cross Section -100.0 To 3457. %



6

Incident Energy (eV)

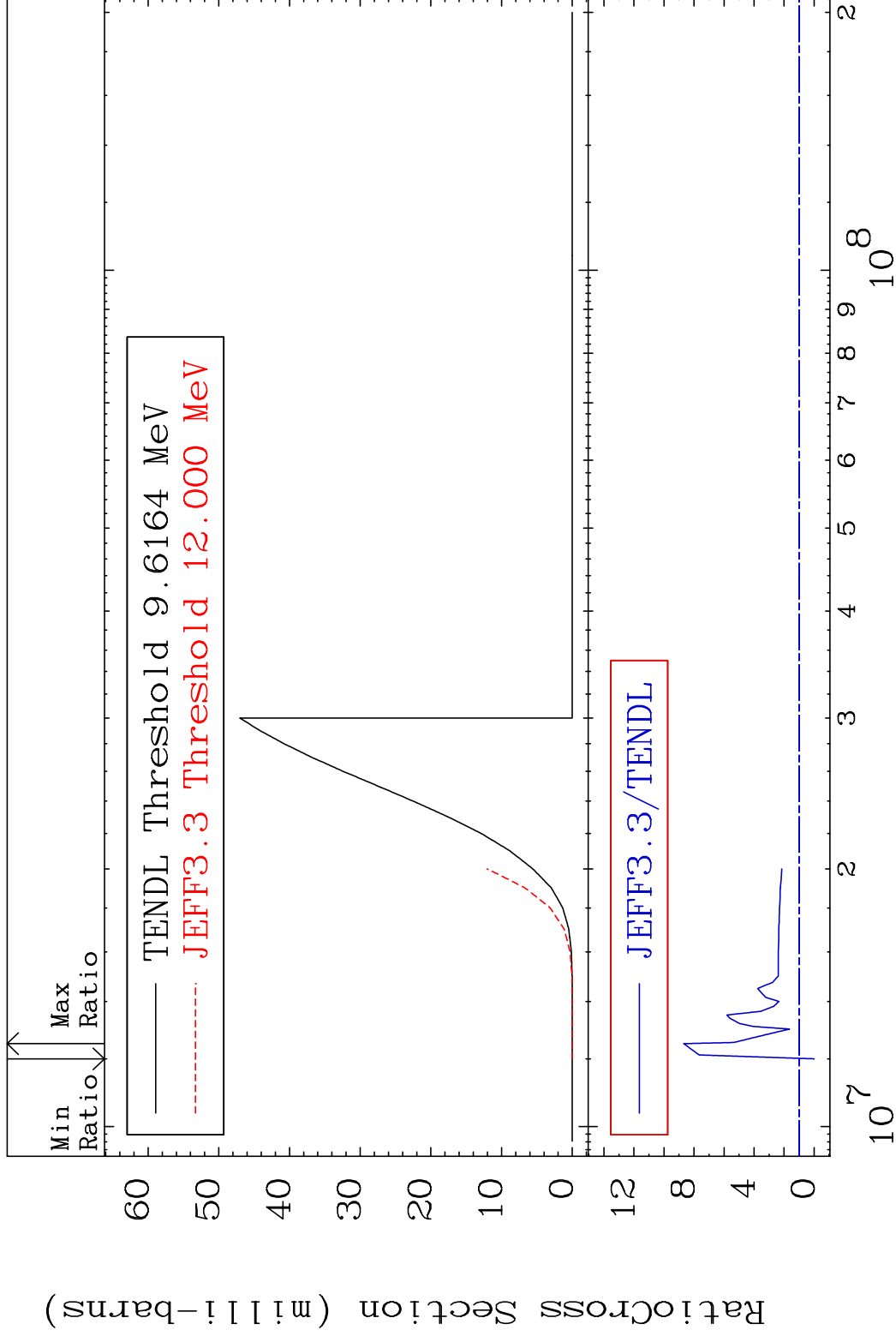
58-Ce-144

MAT 5849

(n, n') p

58-Ce-144

Cross Section -100.0 To 768.9 %



7

Incident Energy (eV)

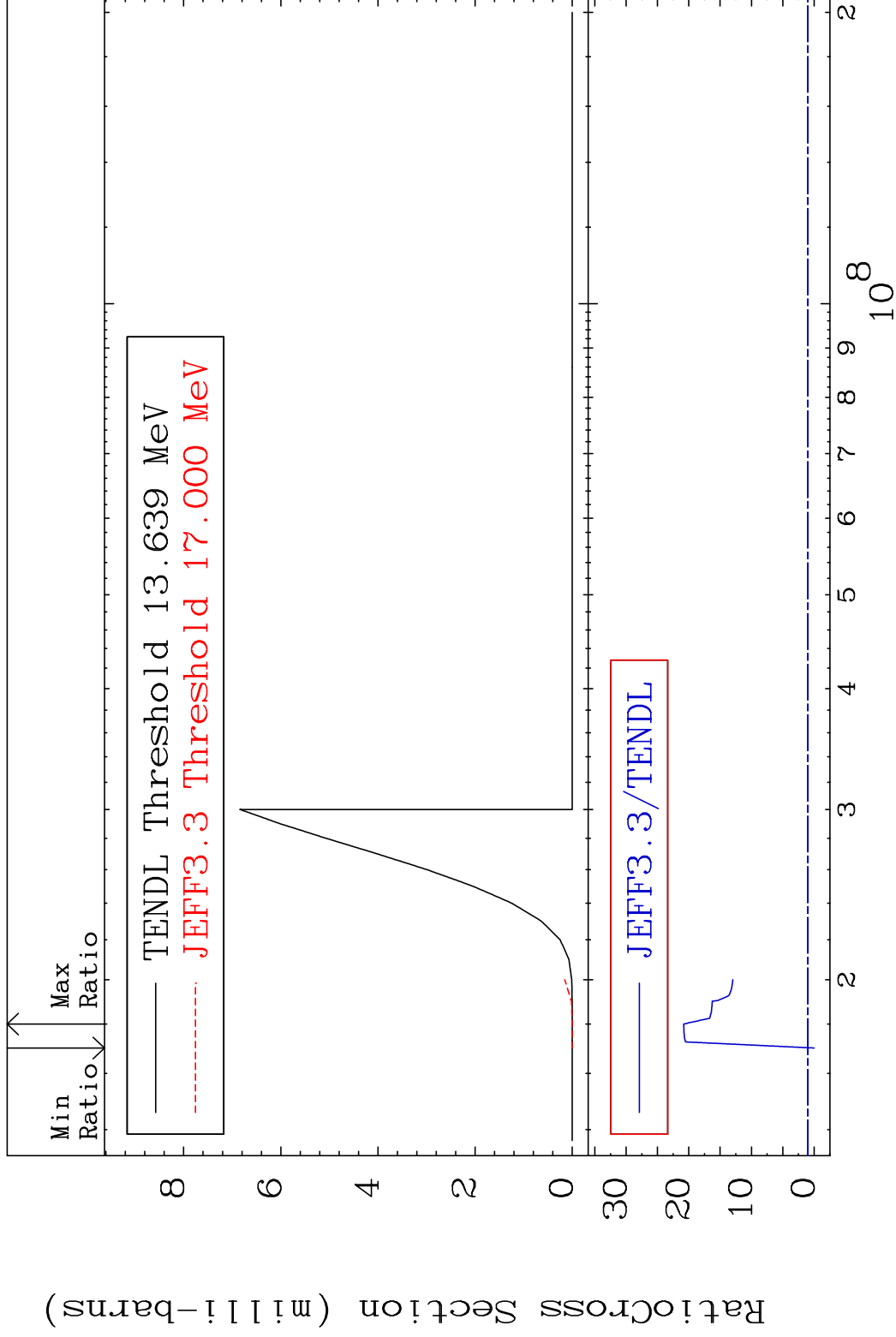
58-Ce-144

MAT 5849

(n, n') d

58-Ce-144

Cross Section -100.0 To 1982. %



8

Incident Energy (eV)

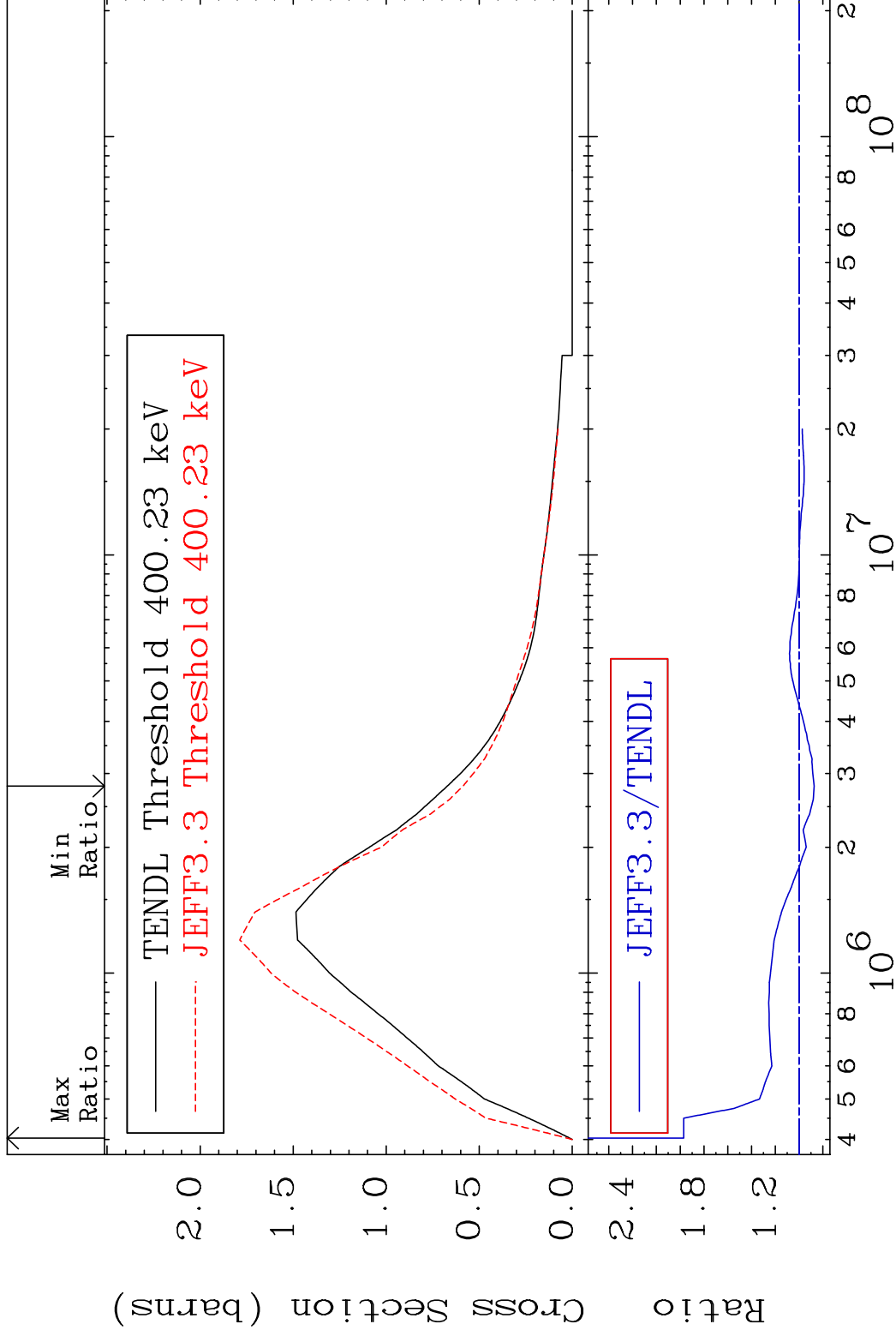
58-Ce-144

MAT 5849

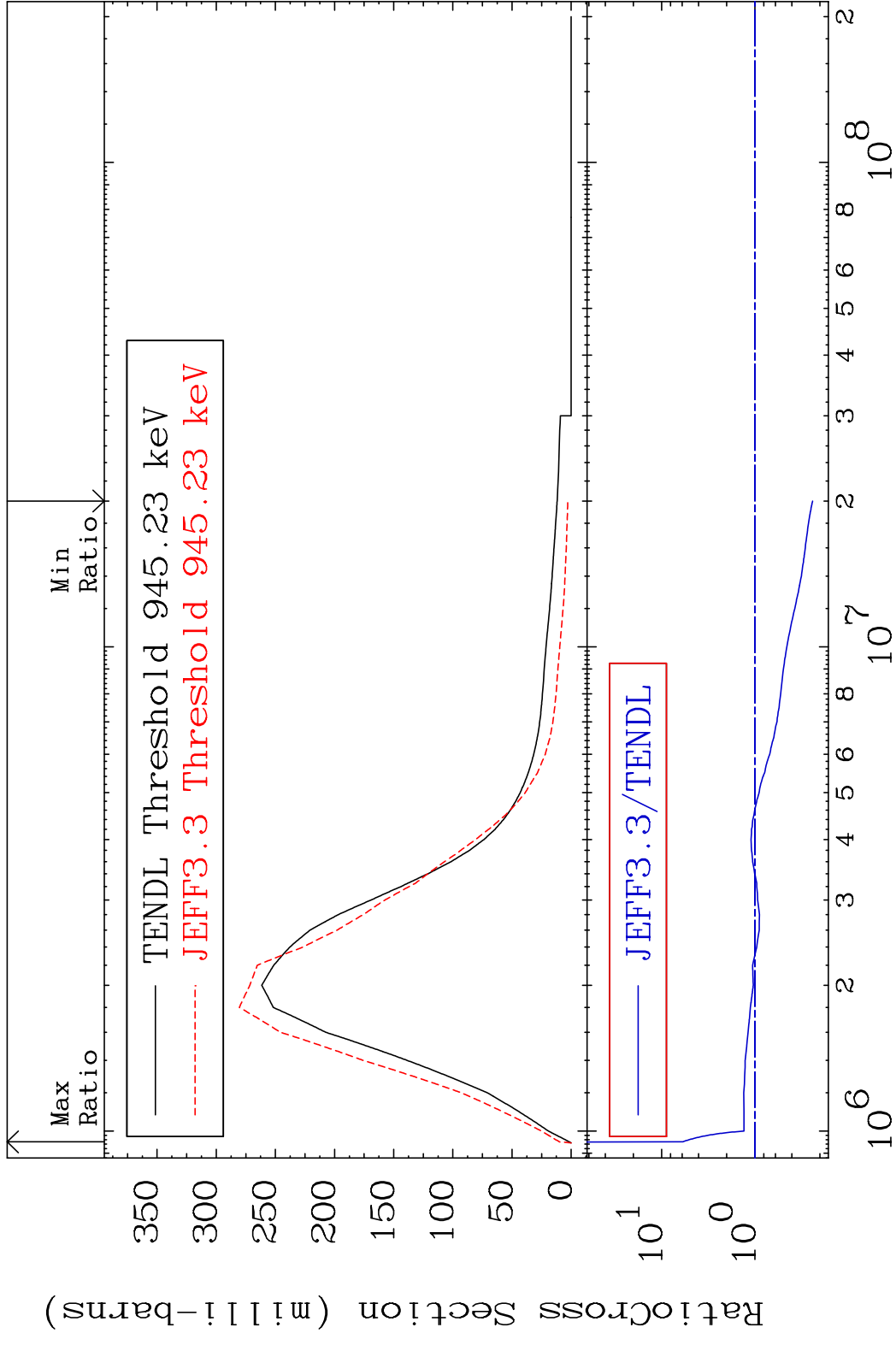
MT= 51 (n,n') Level

58-Ce-144

Cross Section -12.58 To 97.06 %

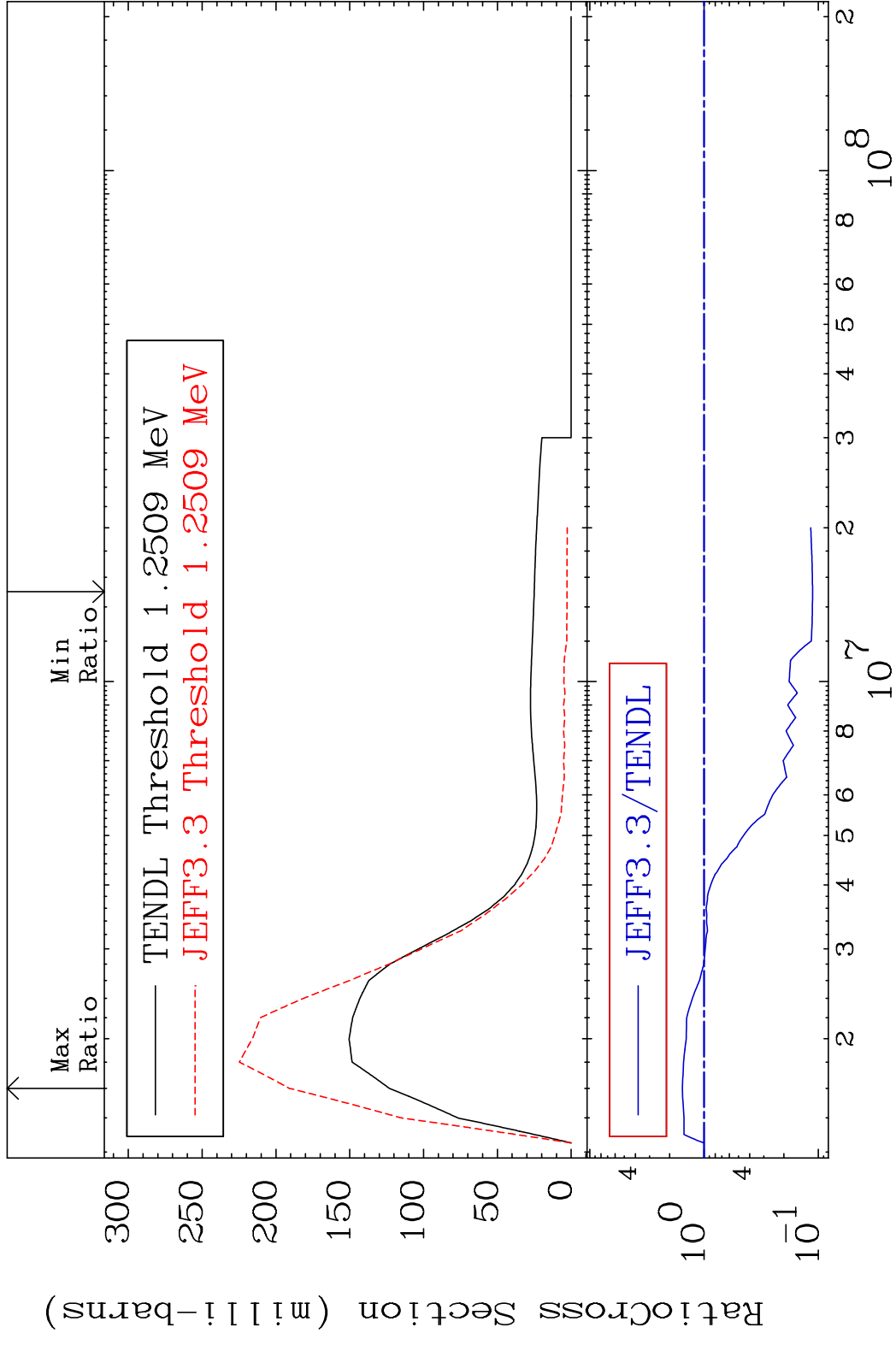


MAT 5849 MT= 52 (n, n') Level 58-Ce-144
 Cross Section -75.96 To 498.2 %

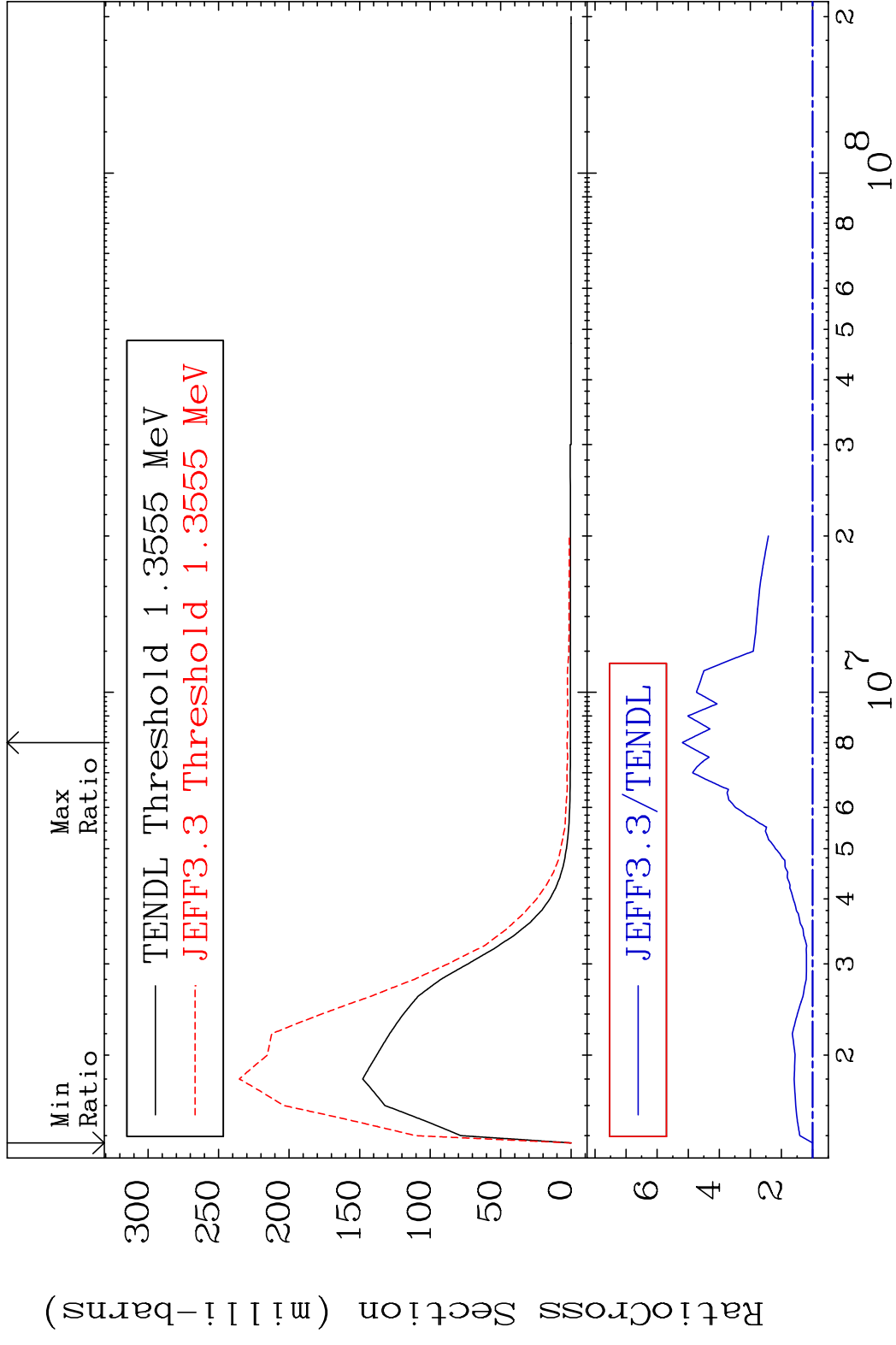


10 10 Incident Energy (eV) 58-Ce-144

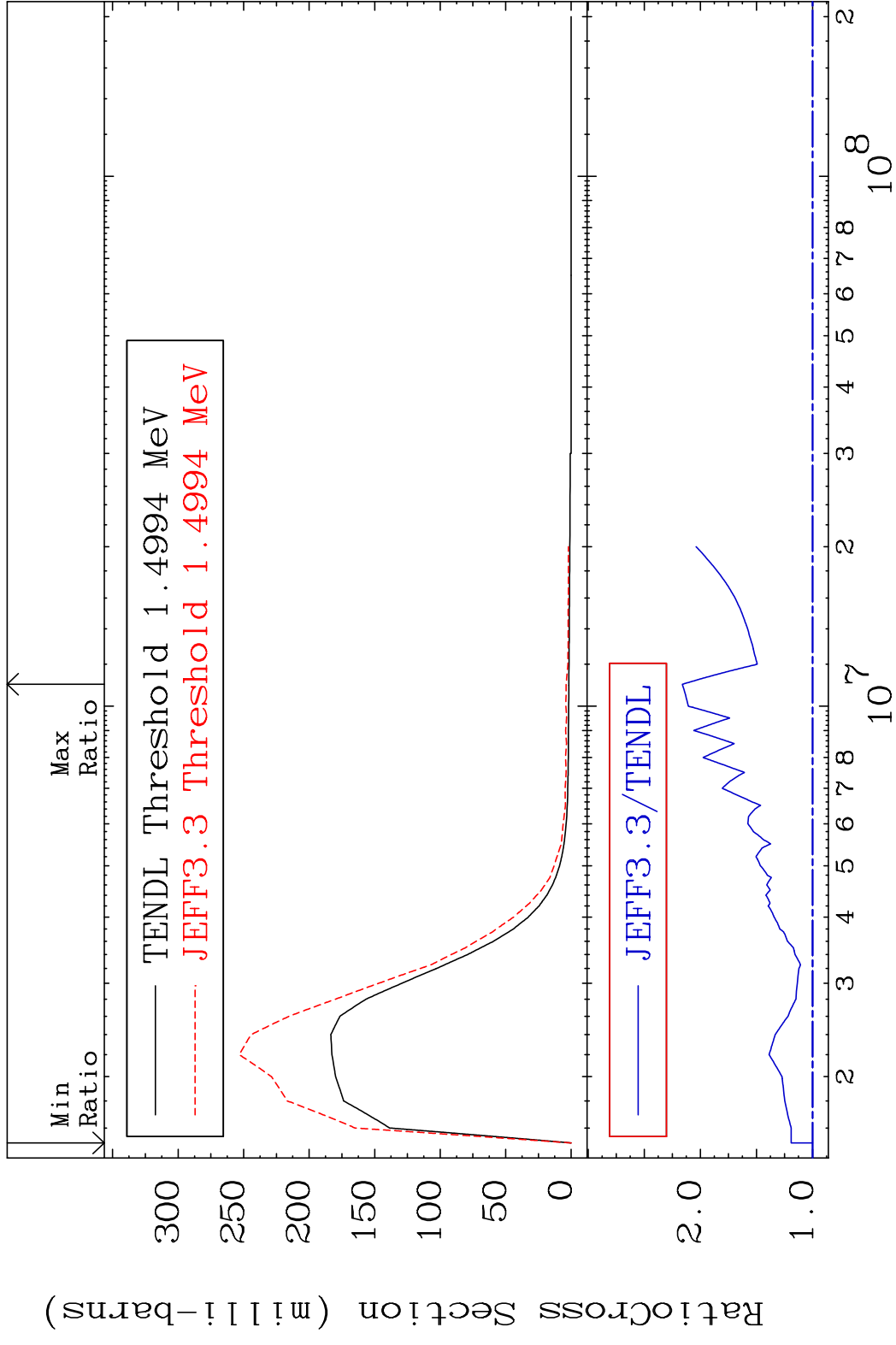
MAT 5849 MT= 53 (n, n') Level 58-Ce-144
 Cross Section -88.76 To 55.01 %



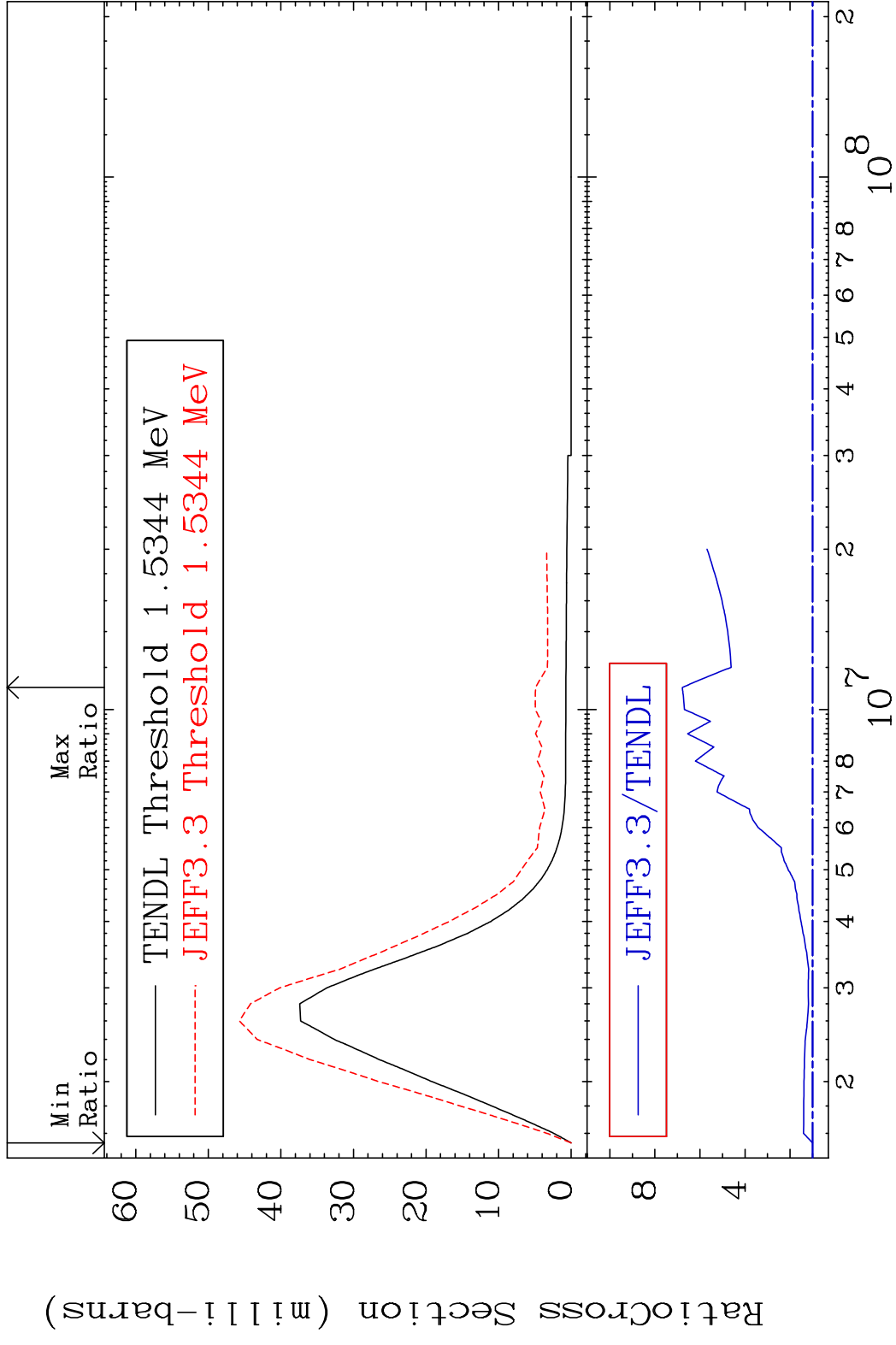
MAT 5849 MT= 54 (n,n') Level 58-Ce-144
 Cross Section 0.000 To 418.9 %



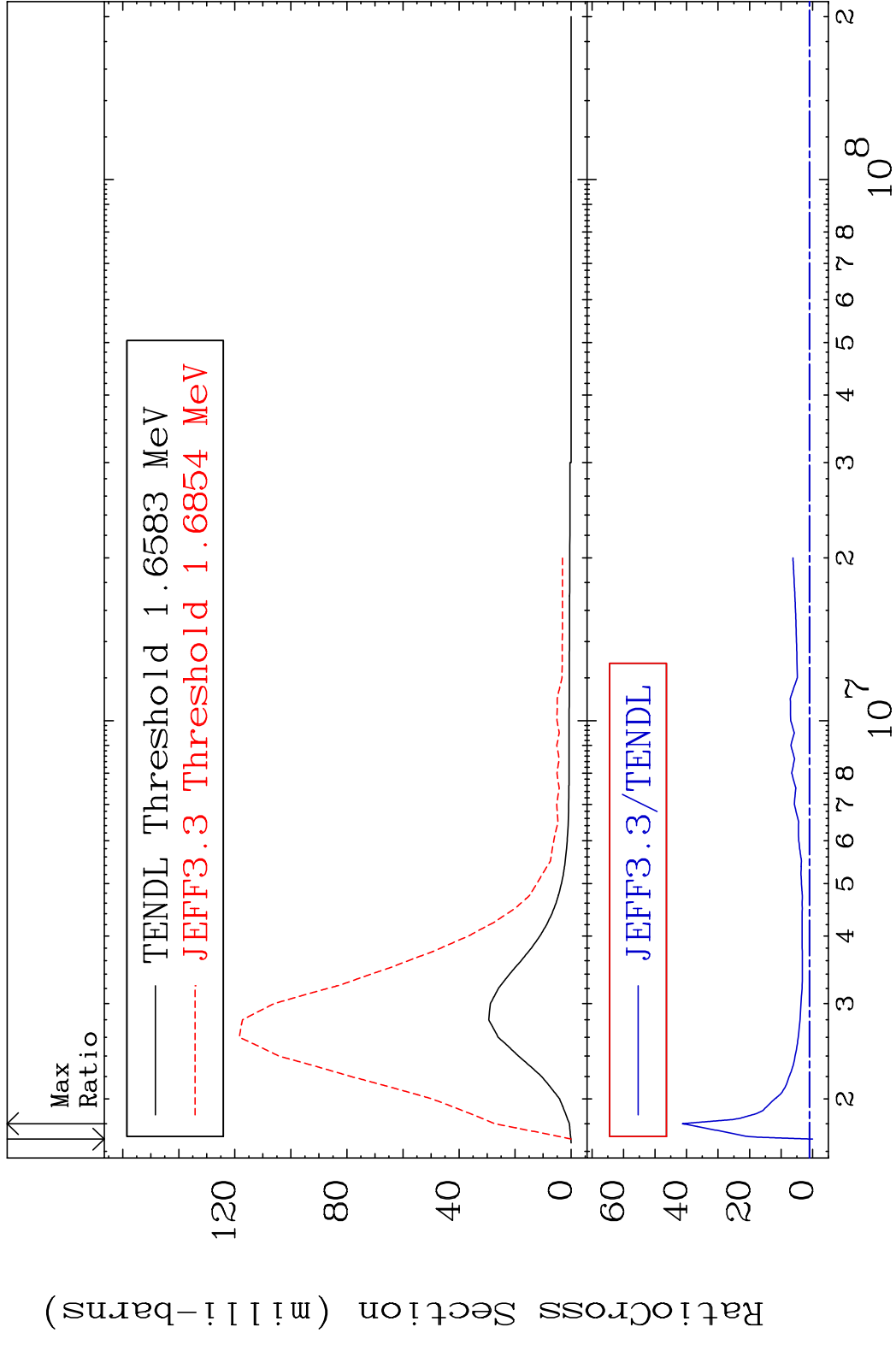
MAT 5849 MT= 55 (n,n') Level 58-Ce-144
 Cross Section 0.000 To 116.0 %



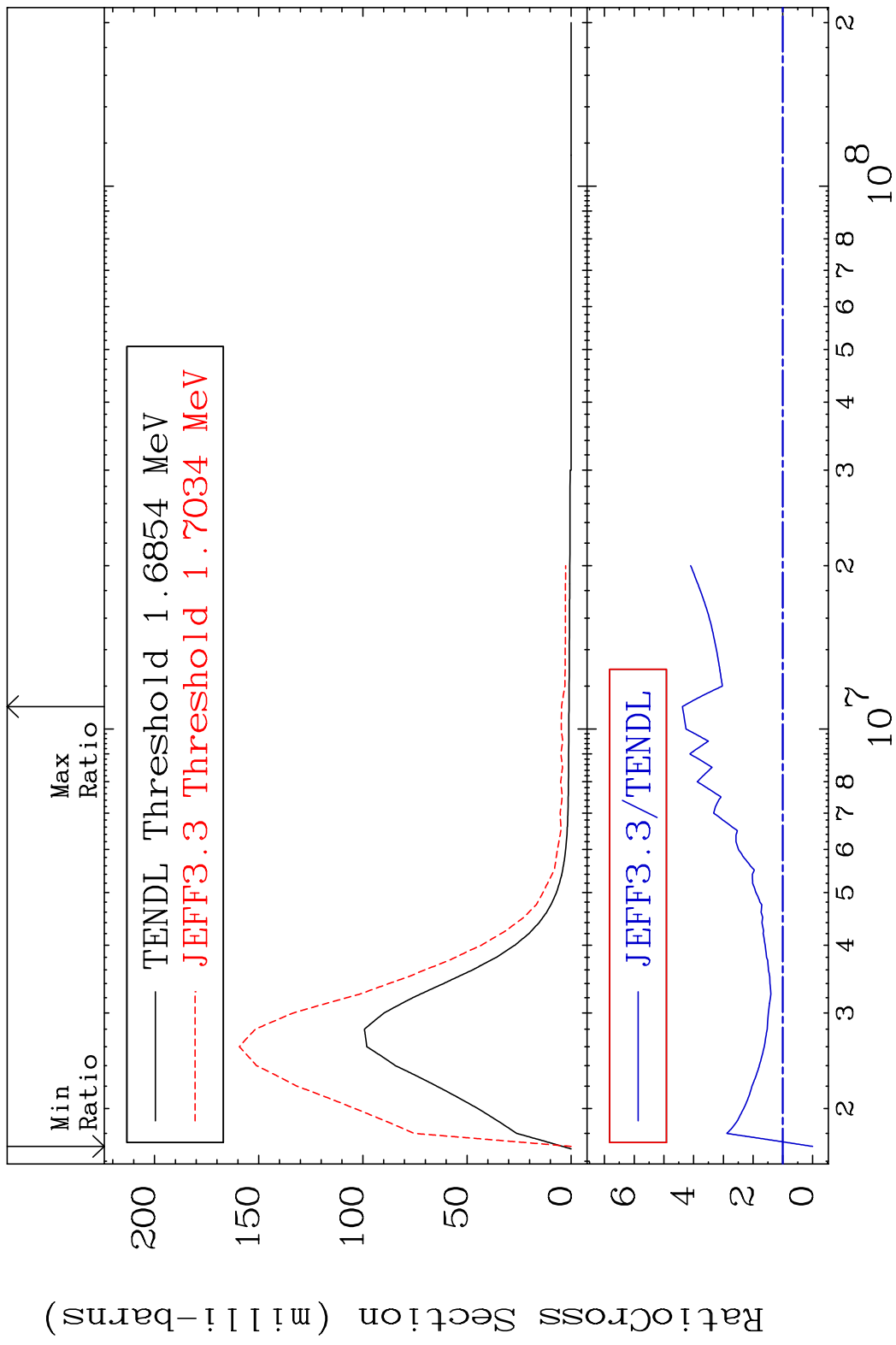
MAT 5849 MT= 56 (n,n') Level 58-Ce-144
 Cross Section 0.000 To 578.1 %



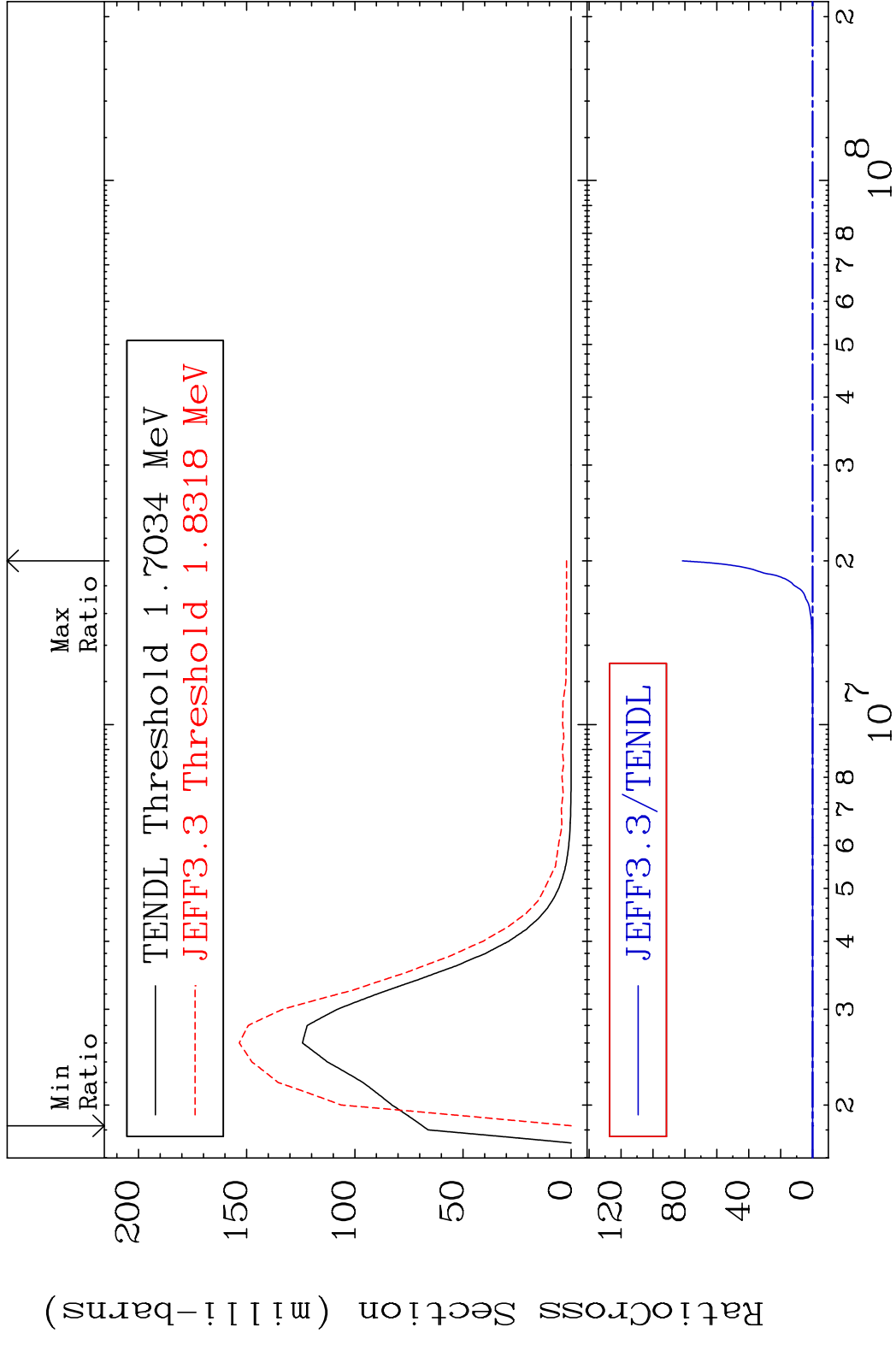
MAT 5849 MT= 57 (n,n') Level 58-Ce-144
 Cross Section -100.0 To 4034. %



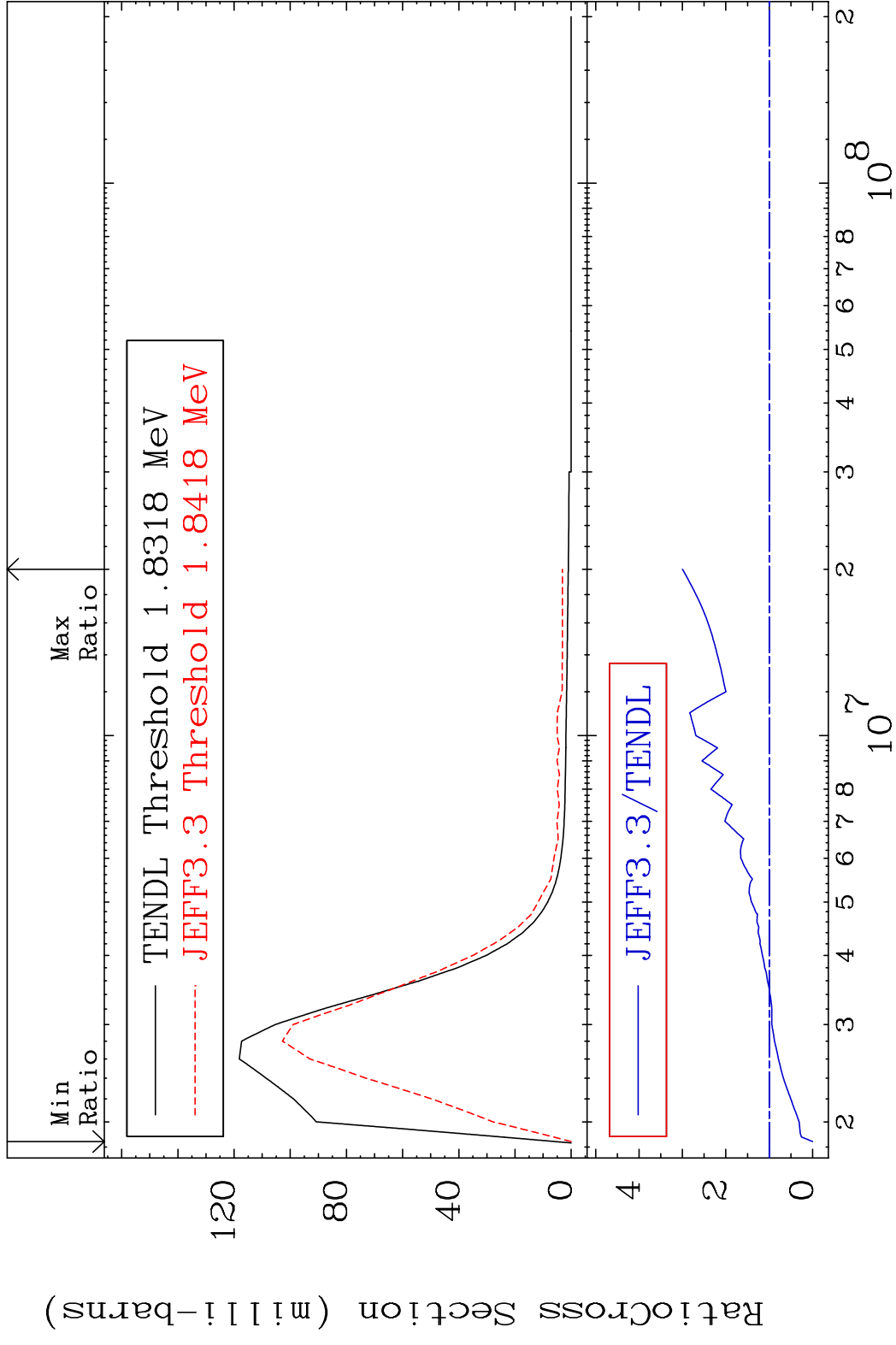
MAT 5849 MT= 58 (n, n') Level 58-Ce-144
 Cross Section -100.0 To 337.9 %



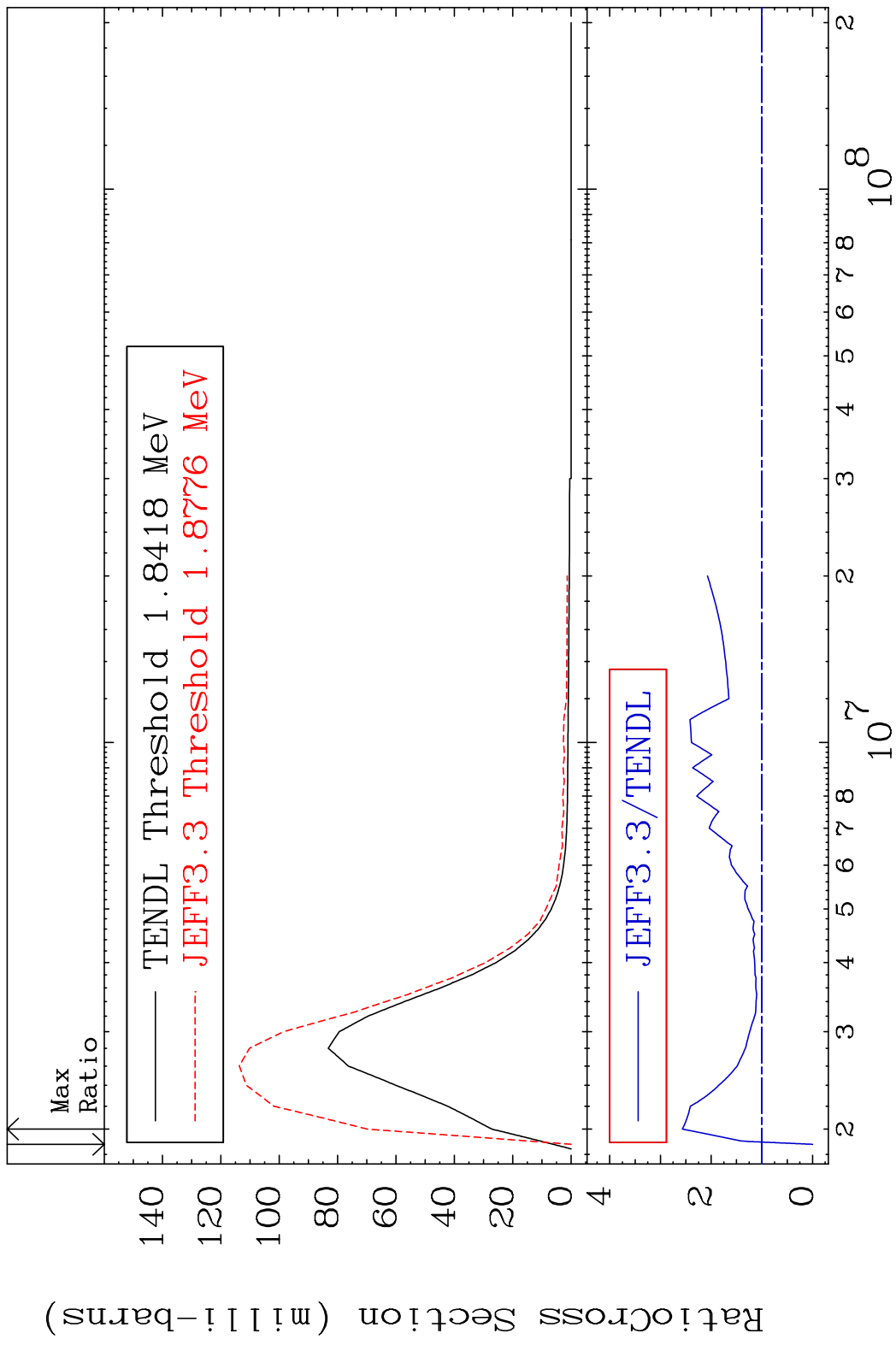
MAT 5849 MT= 59 (n, n') Level 58-Ce-144
 Cross Section -100.0 To 9999. %



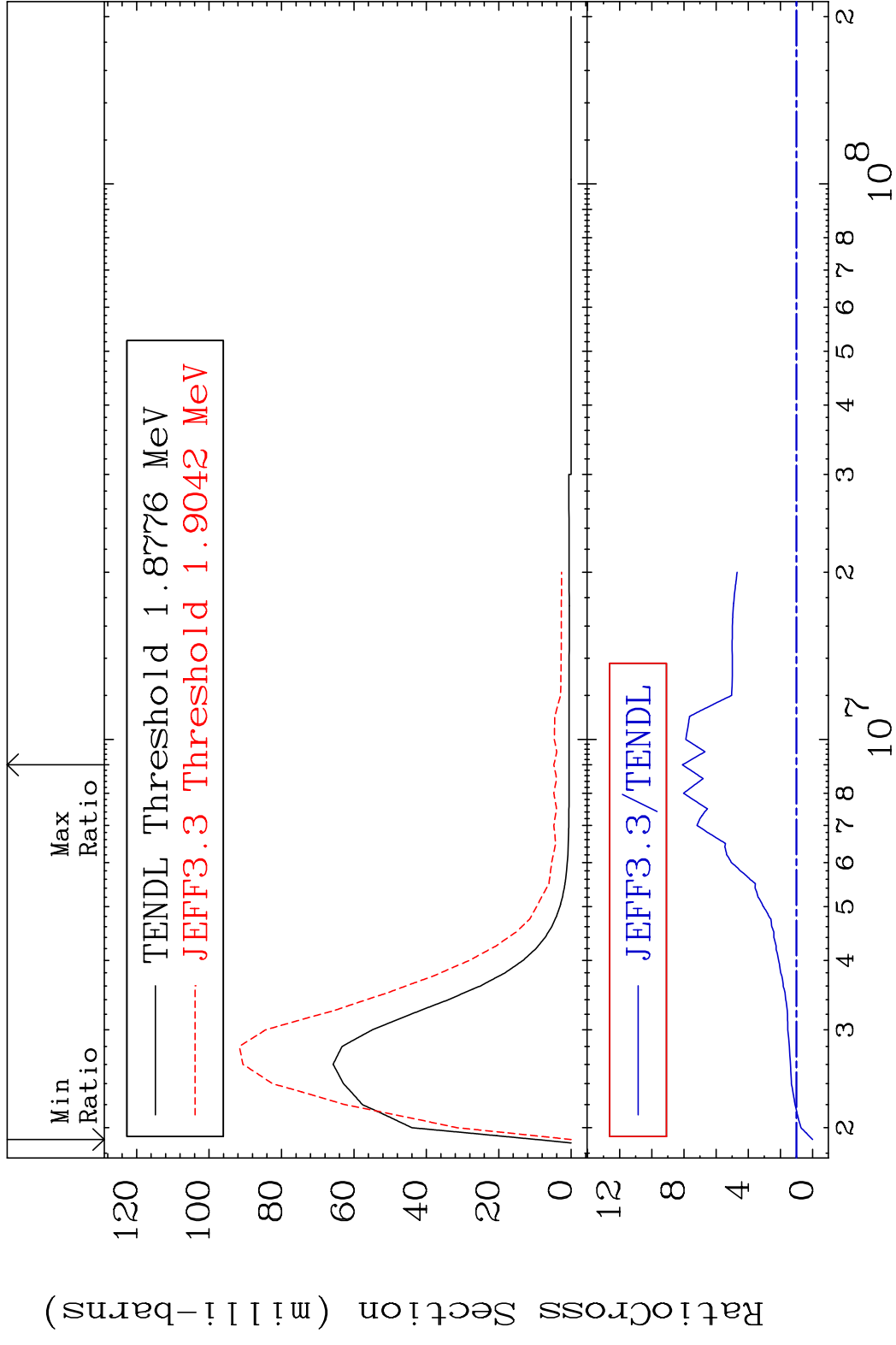
MAT 5849 MT= 60 (n, n') Level 58-Ce-144
 Cross Section -100.0 To 200.2 %



MAT 5849 MT= 61 (n, n') Level 58-Ce-144
 Cross Section -100.0 To 156.8 %



MAT 5849 MT= 62 (n, n') Level 58-Ce-144
 Cross Section -100.0 To 710.0 %

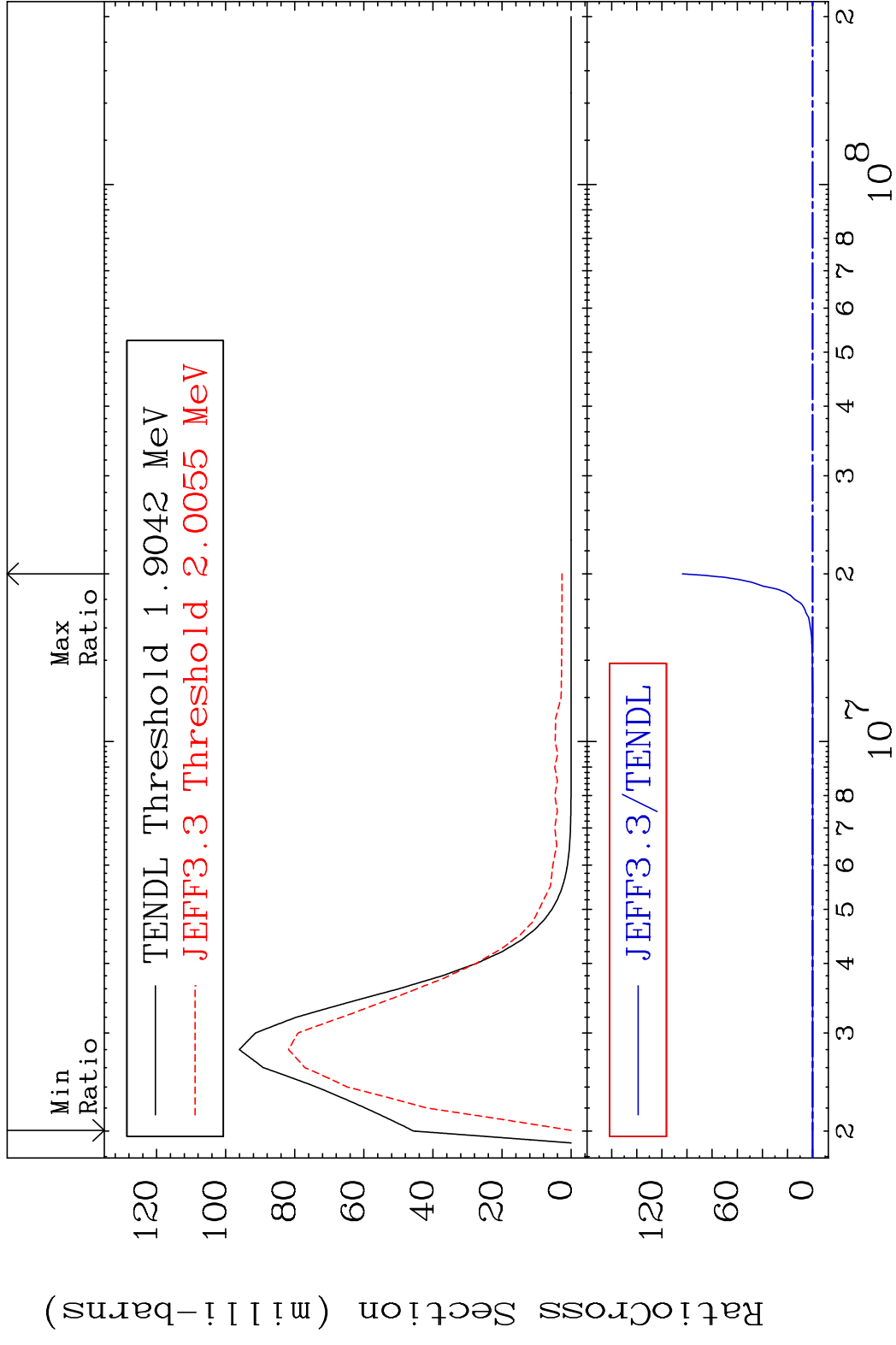


20

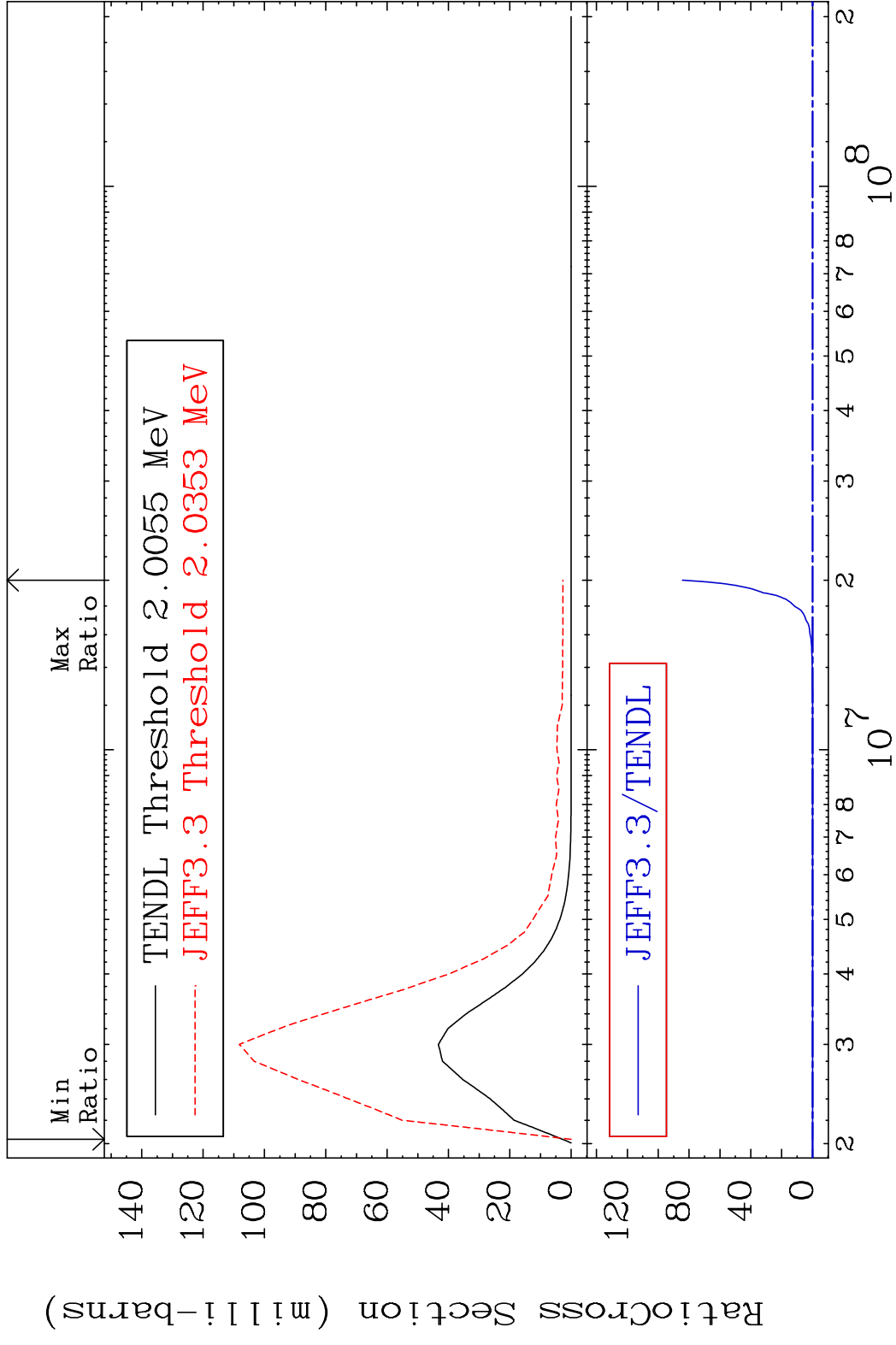
Incident Energy (eV)

58-Ce-144

MAT 5849 MT= 63 (n, n') Level 58-Ce-144
 Cross Section -100.0 To 9999. %



MAT 5849 MT= 64 (n, n') Level 58-Ce-144
 Cross Section -100.0 To 9999. %

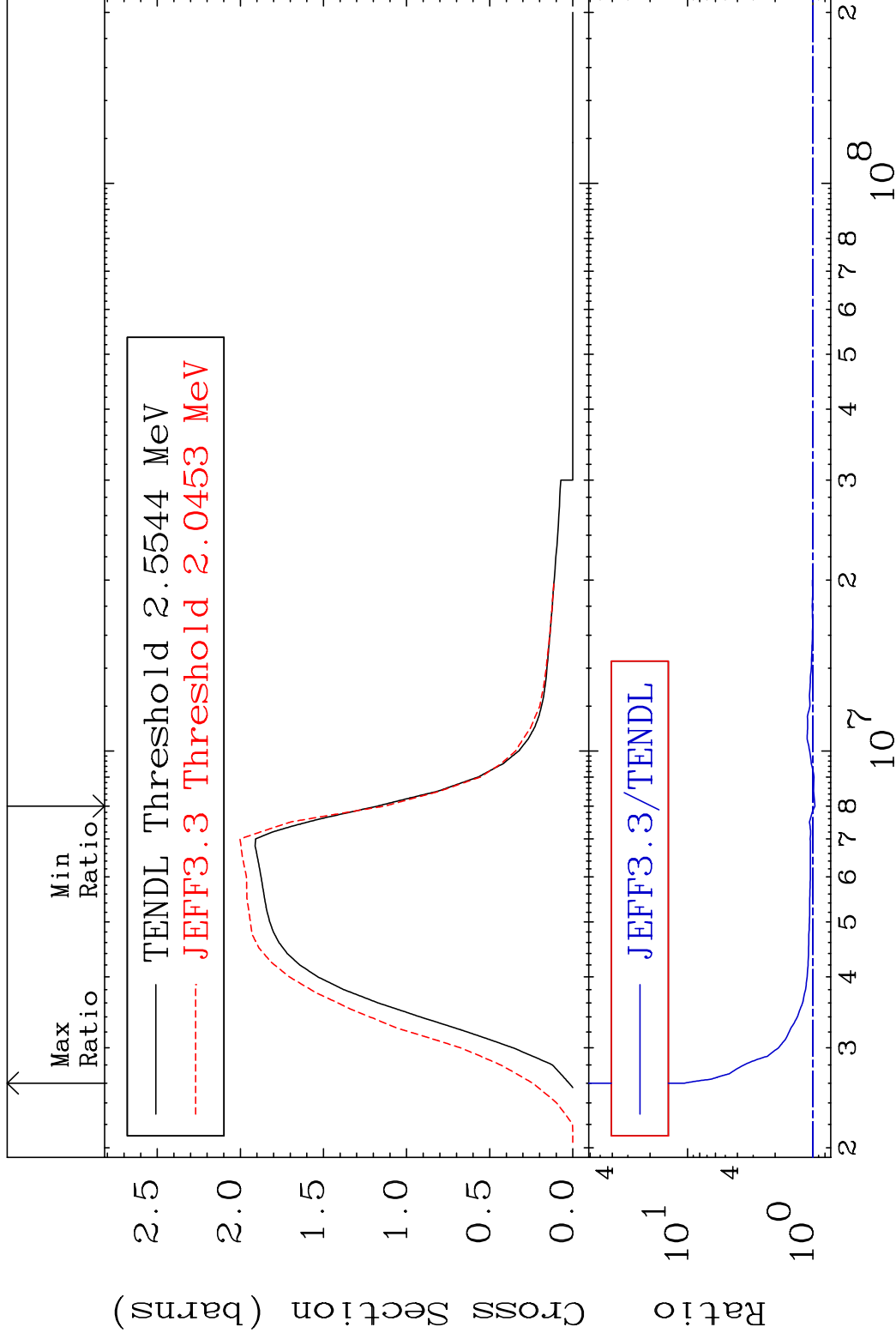


MAT 5849

(n,n') Continuum

58-Ce-144

Cross Section -3.728 To 963.1 %



23

Incident Energy (eV)

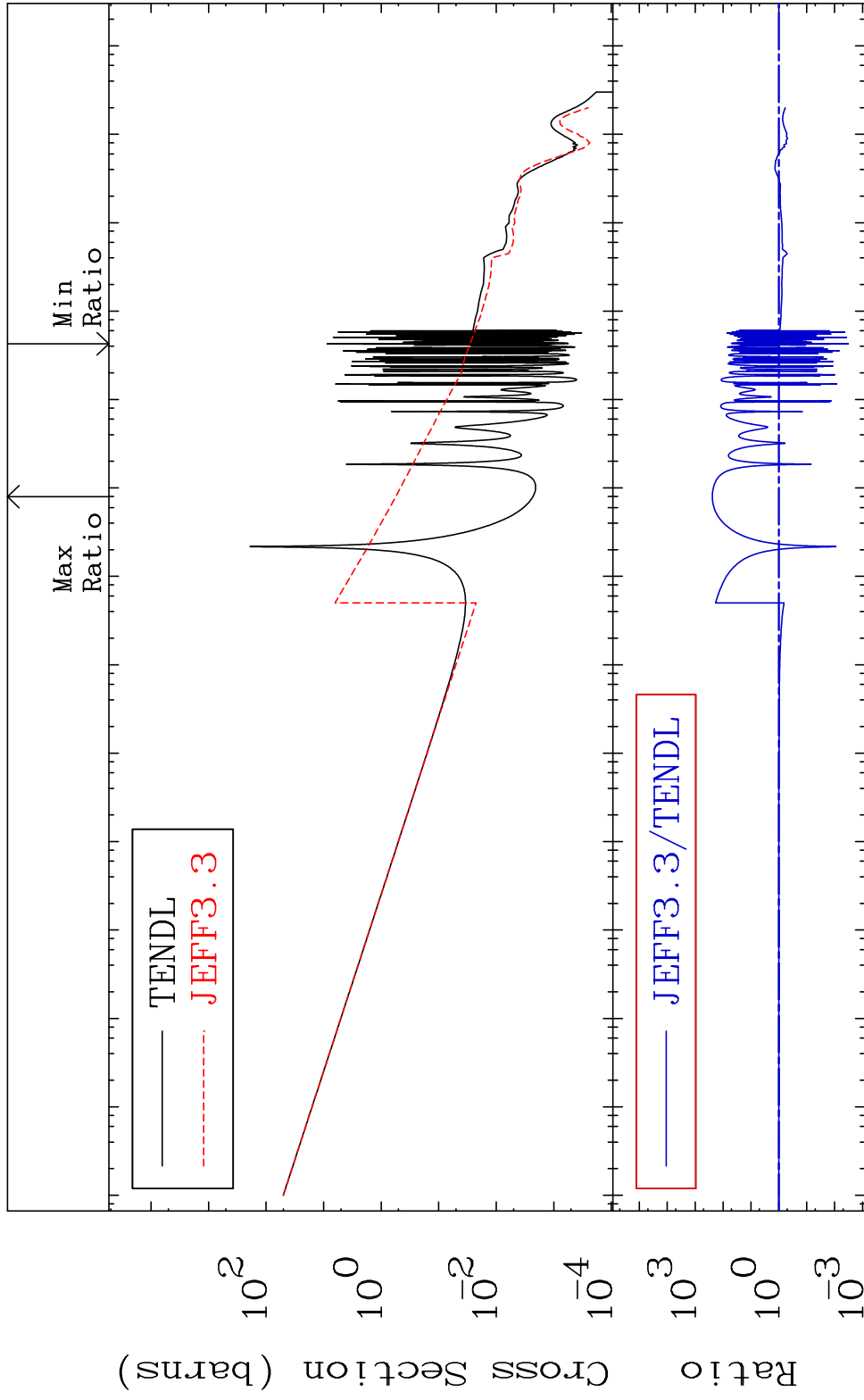
58-Ce-144

MAT 5849

(n, γ)

58-Ce-144

Cross Section -99.68 To 9999. %



24

Incident Energy (eV)

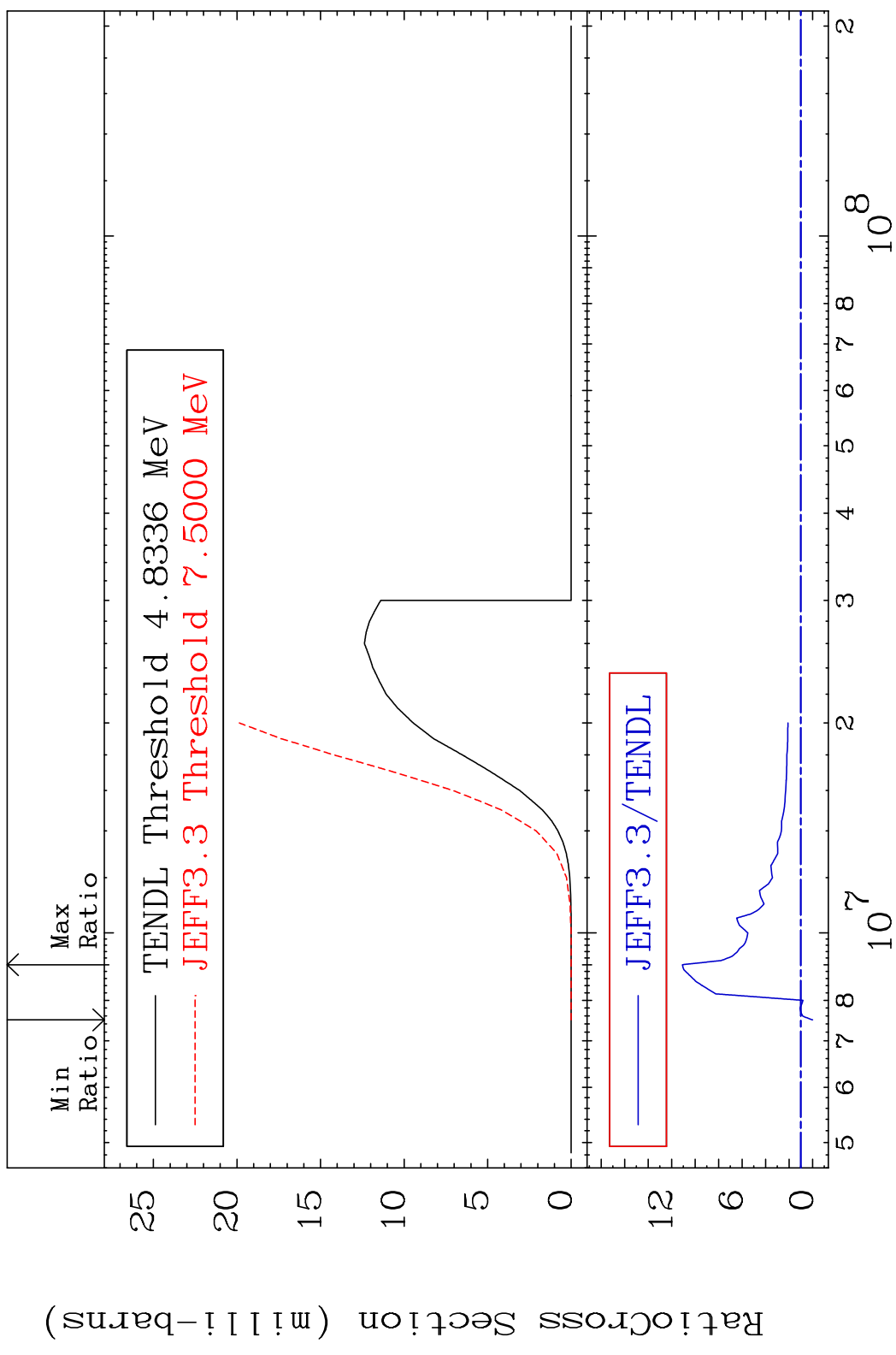
58-Ce-144

MAT 5849

(n,p)

58-Ce-144

Cross Section -100.0 To 1009. %



25

Incident Energy (eV)

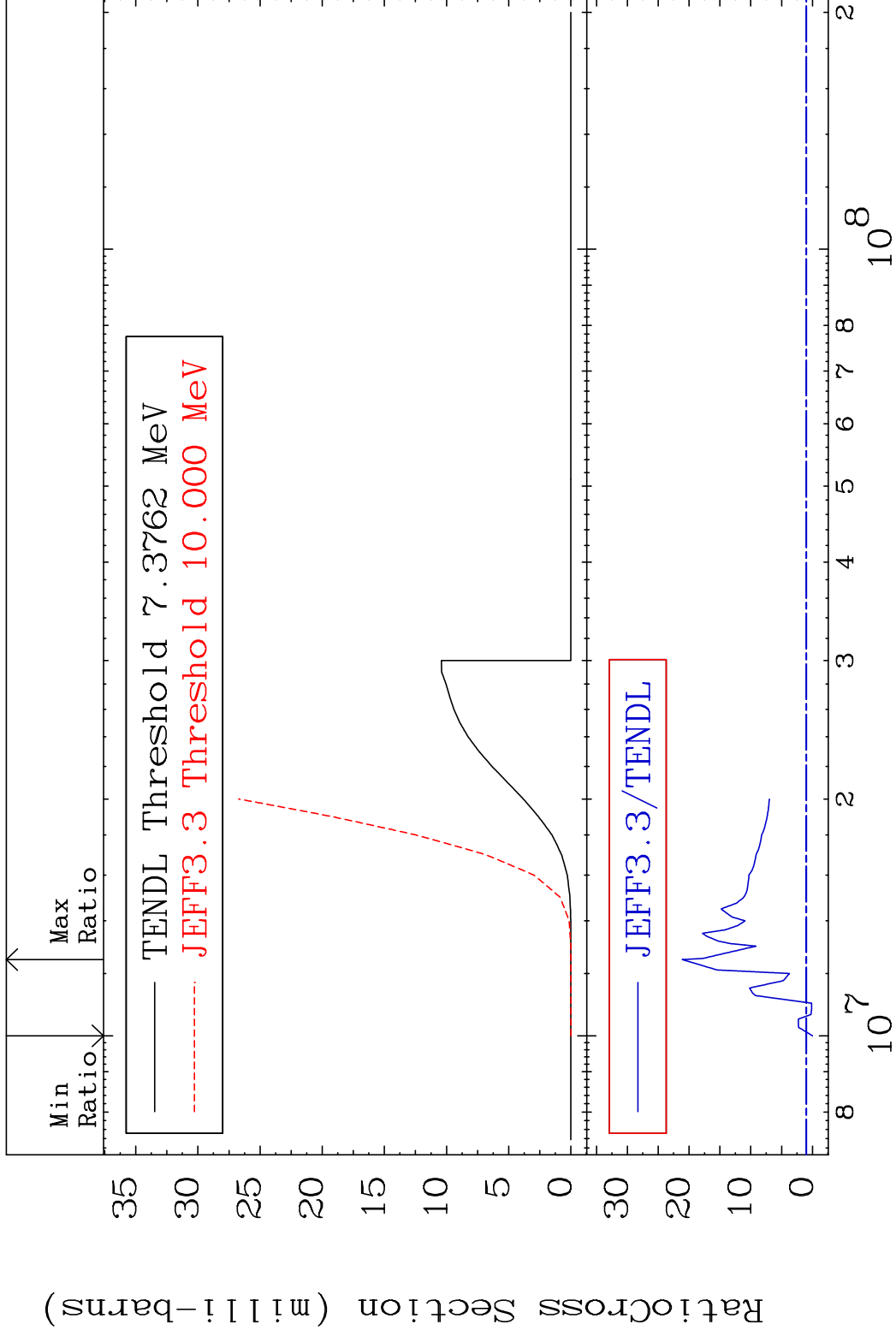
58-Ce-144

MAT 5849

(n,d)

58-Ce-144

Cross Section -100.0 To 2012. %



26

Incident Energy (eV)

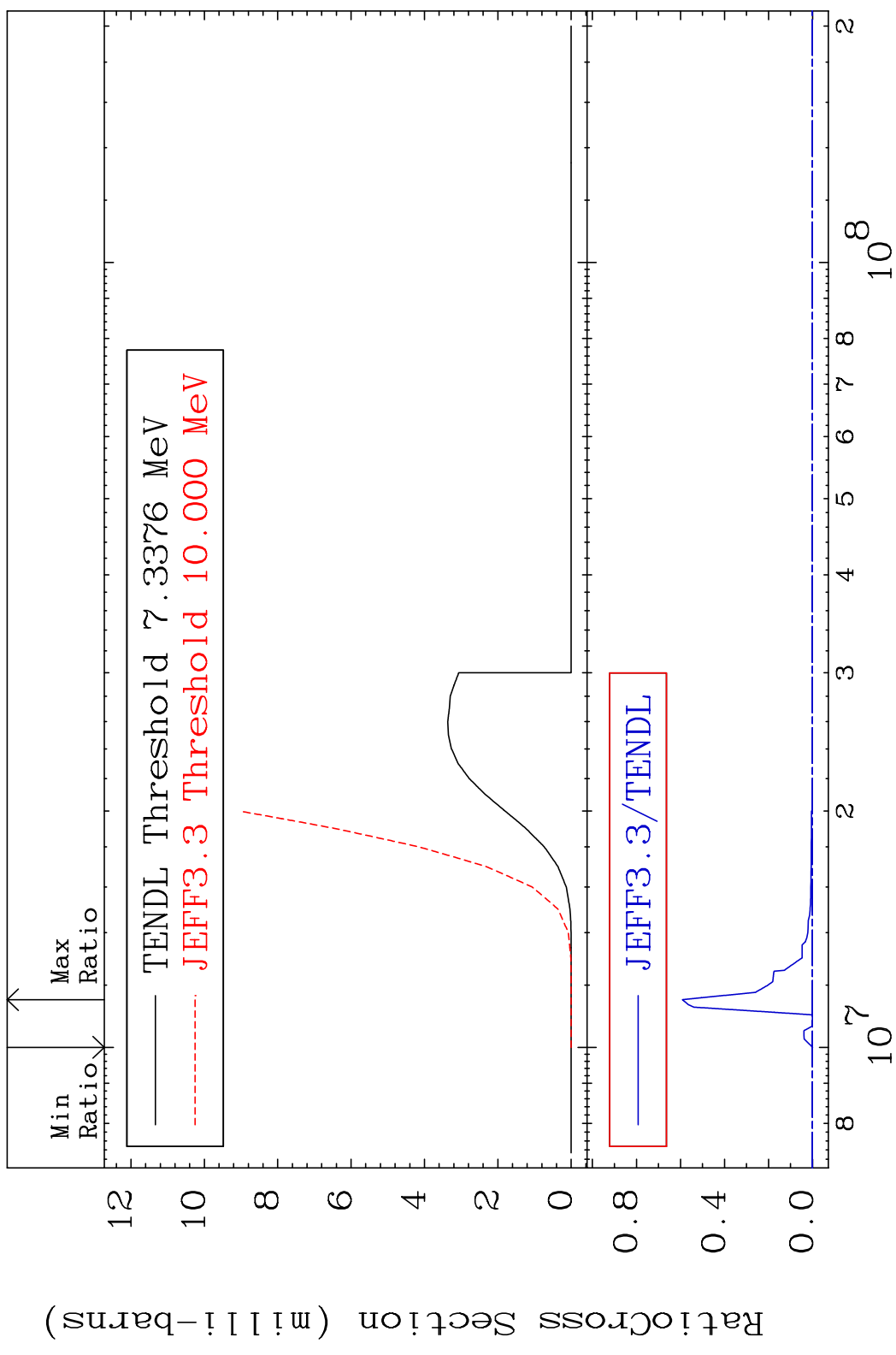
58-Ce-144

MAT 5849

(n, t)

58-Ce-144

Cross Section -100.0 To 9999. %

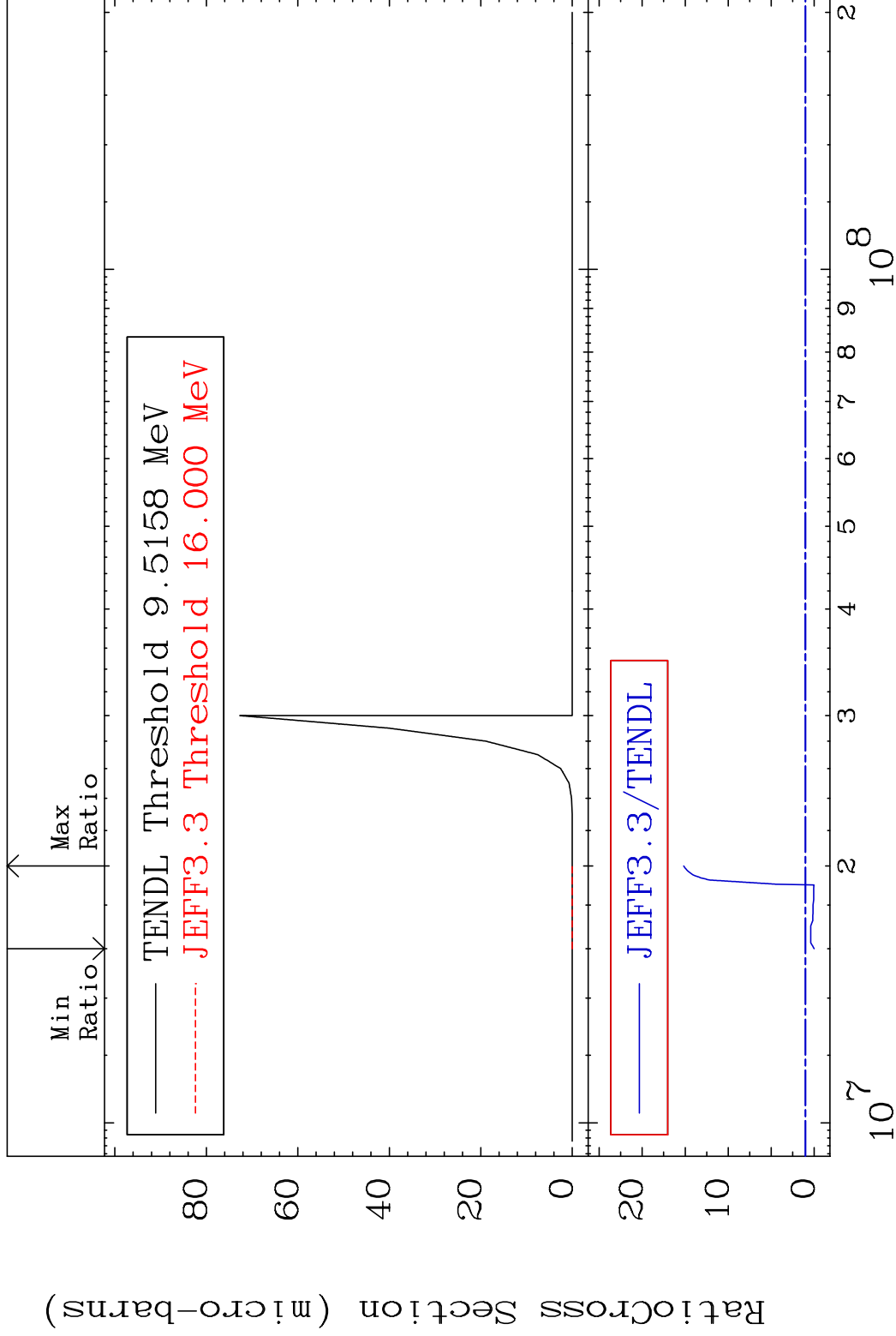


MAT 5849

(n, He-3)

58-Ce-144

Cross Section -100.0 To 1418. %



28

Incident Energy (eV)

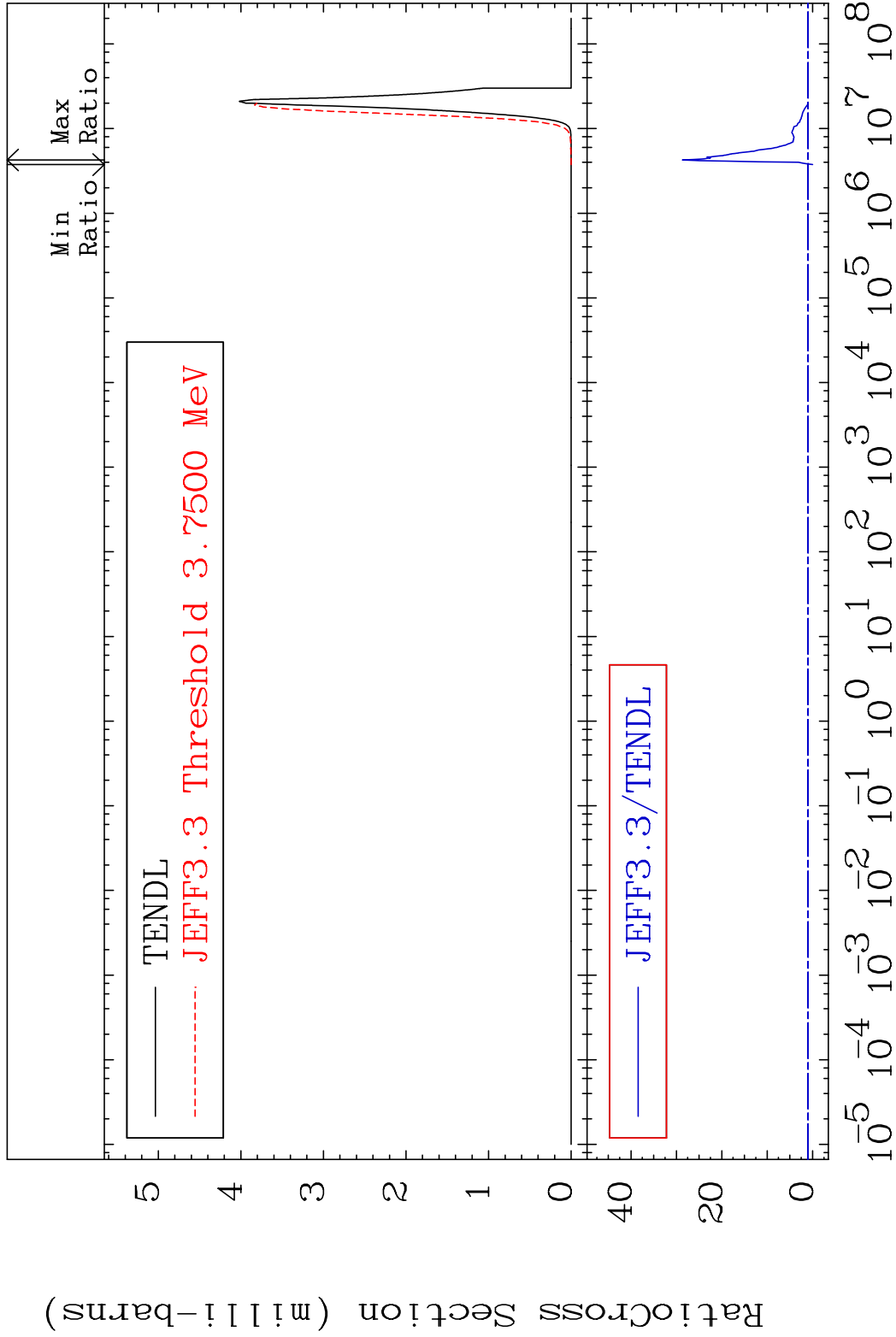
58-Ce-144

MAT 5849

(n, α)

58-Ce-144

Cross Section -100.0 To 2768. %



29

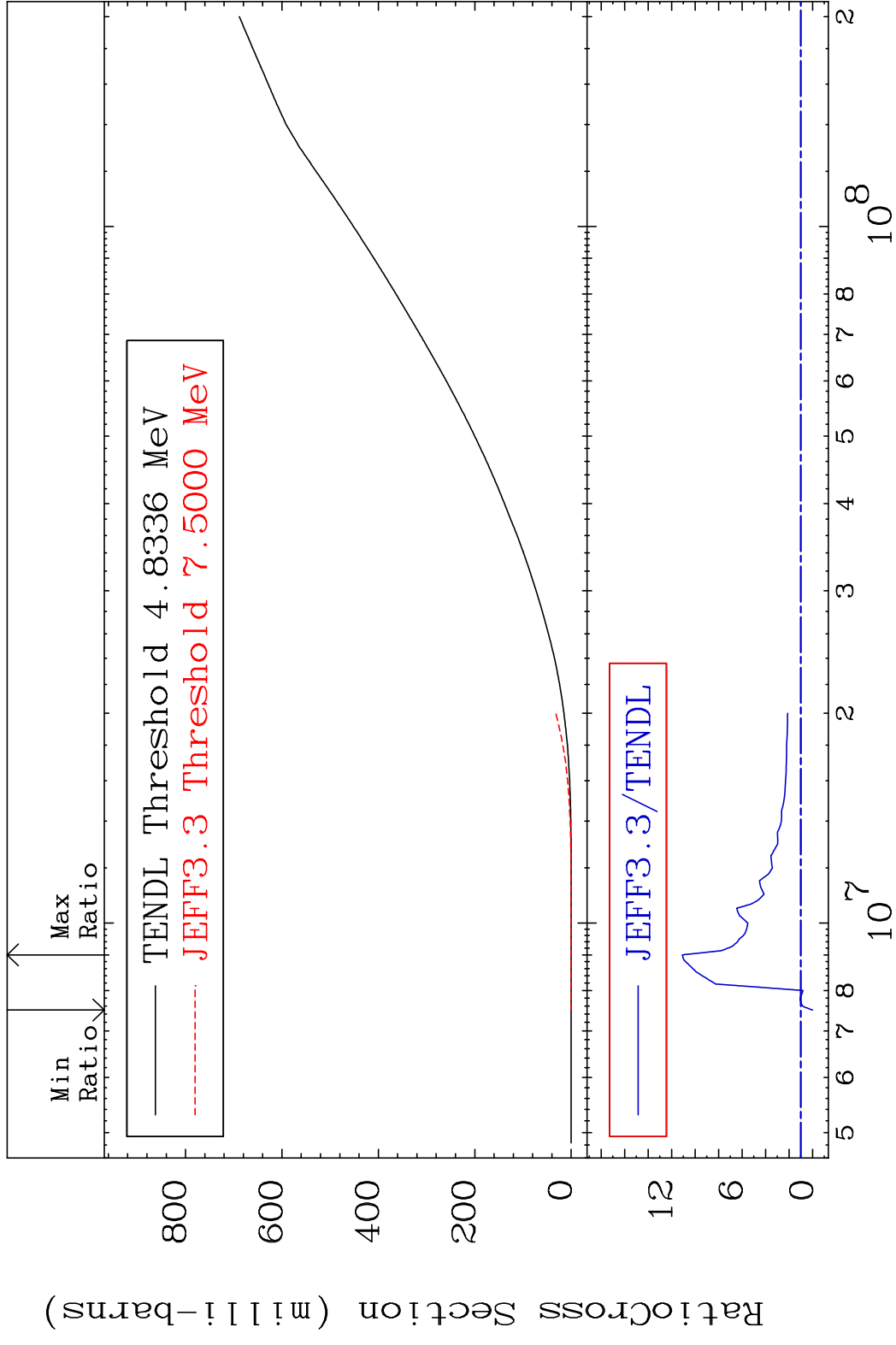
Incident Energy (eV)

58-Ce-144

MAT 5849

Hydrogen Production 58-Ce-144

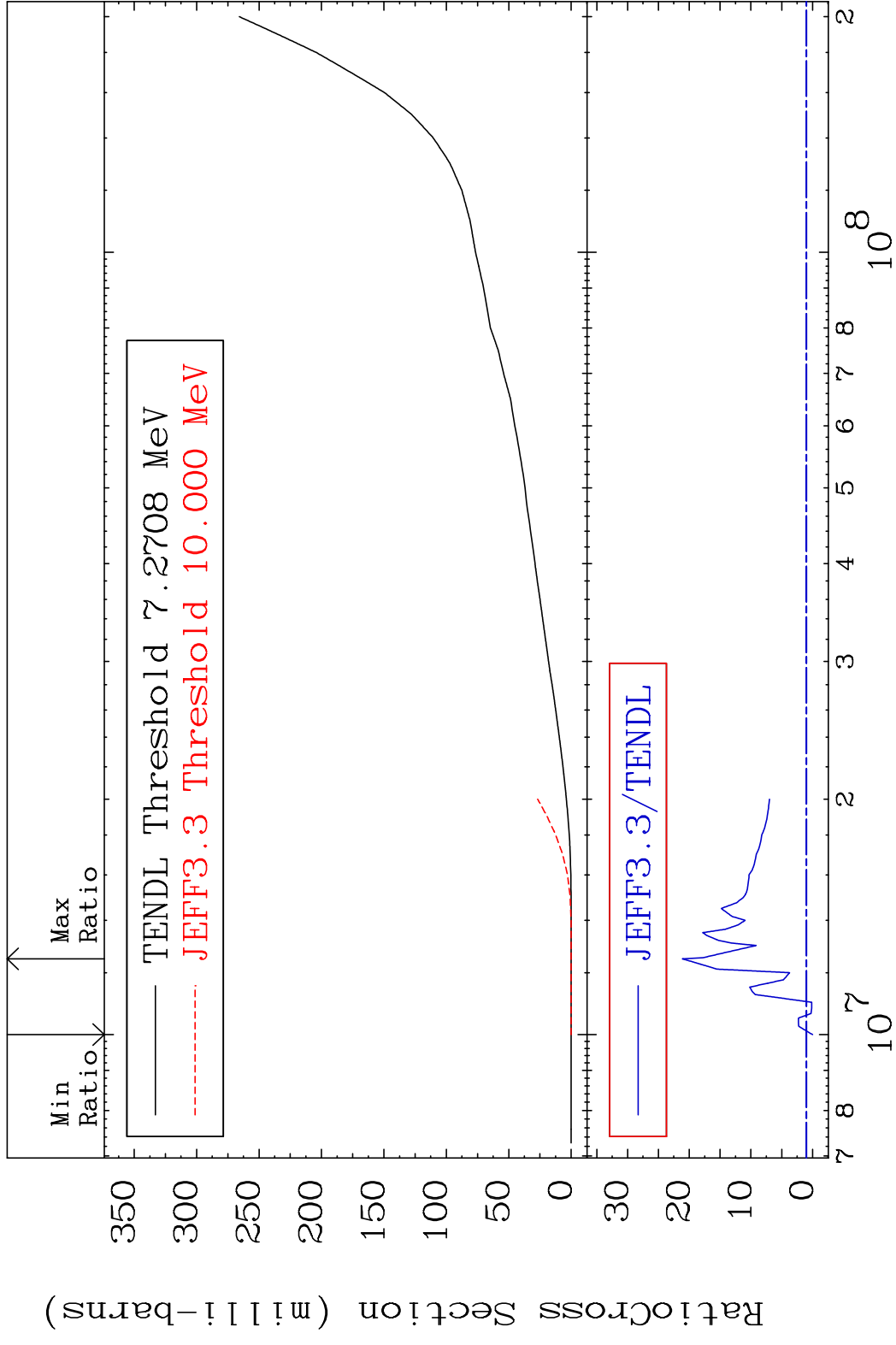
Cross Section -100.0 To 1009. %



30

Incident Energy (eV)

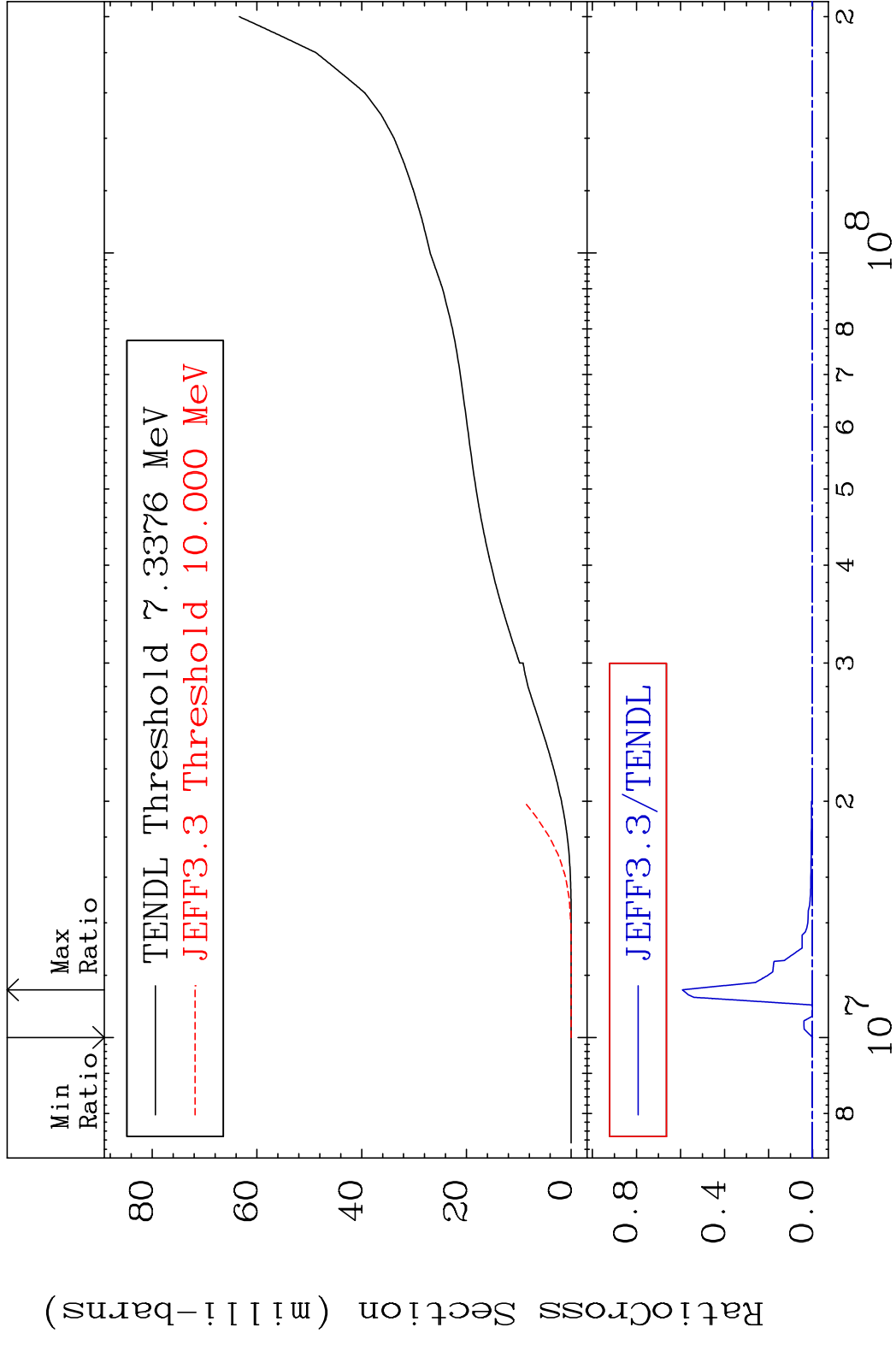
58-Ce-144



MAT 5849

Tritium Production 58-Ce-144

Cross Section -100.0 To 9999. %

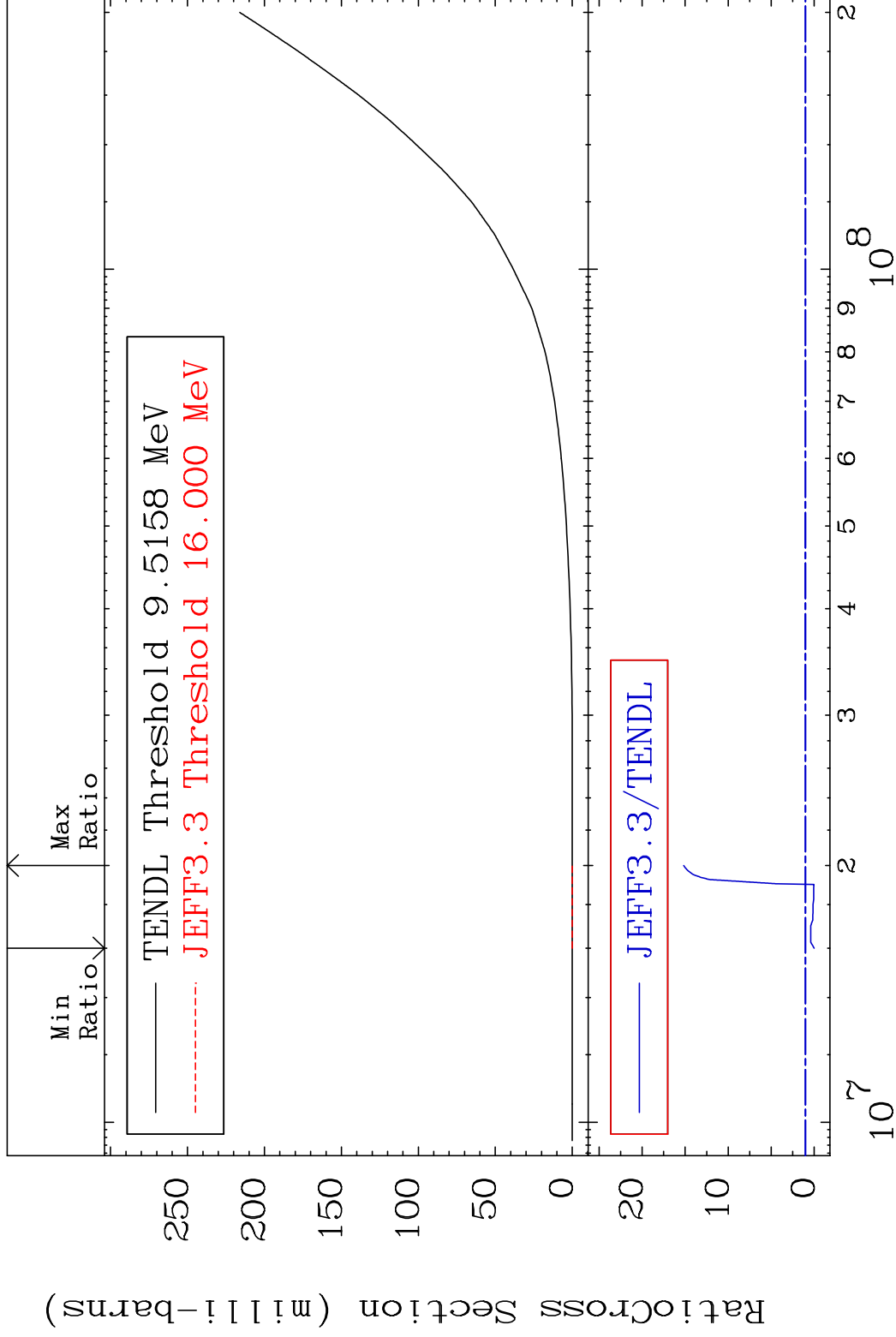


MAT 5849

He-3 Production

58-Ce-144

Cross Section -100.0 To 1418. %



33

Incident Energy (eV)

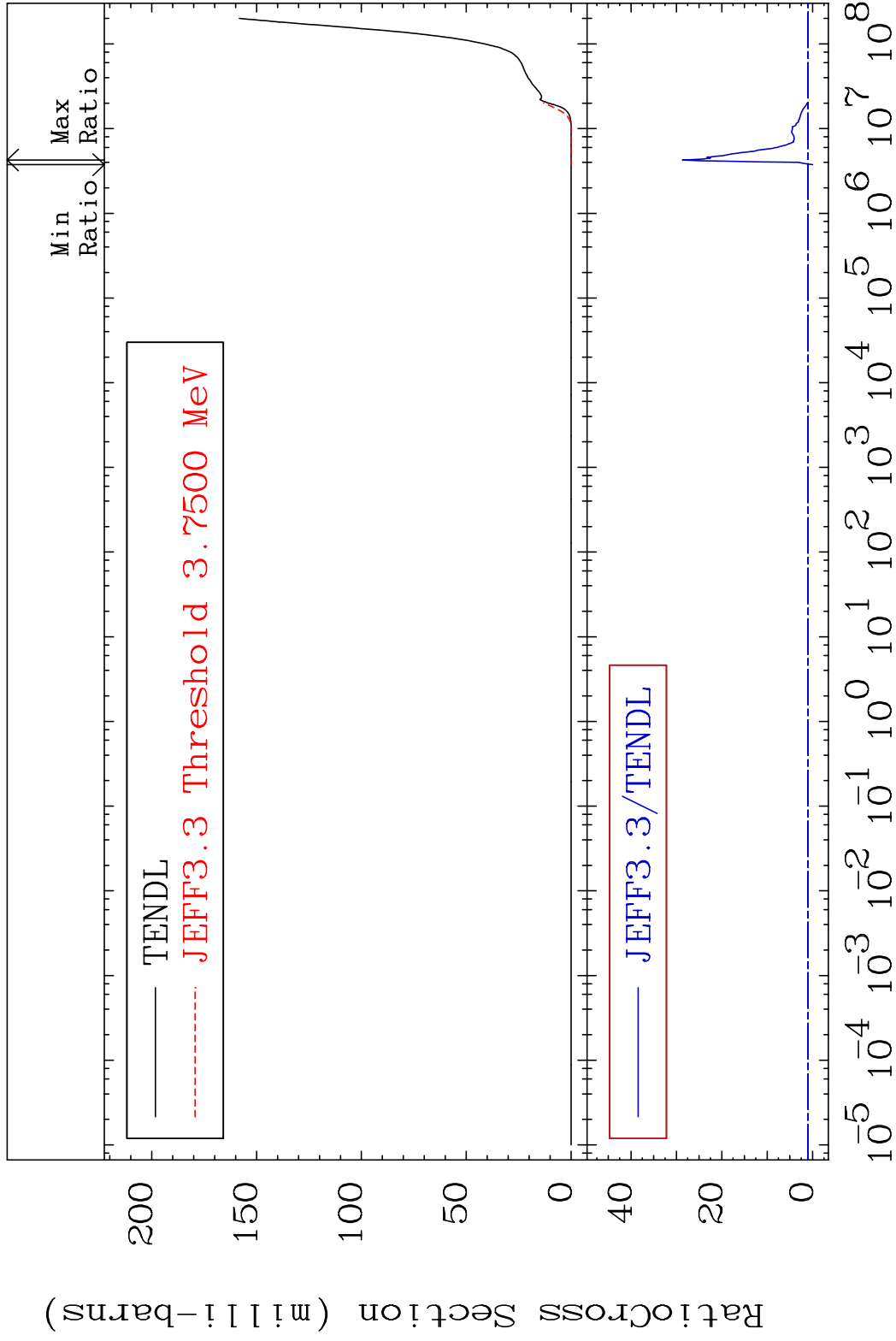
58-Ce-144

MAT 5849

He-4 Production

58-Ce-144

Cross Section -100.0 To 2768. %

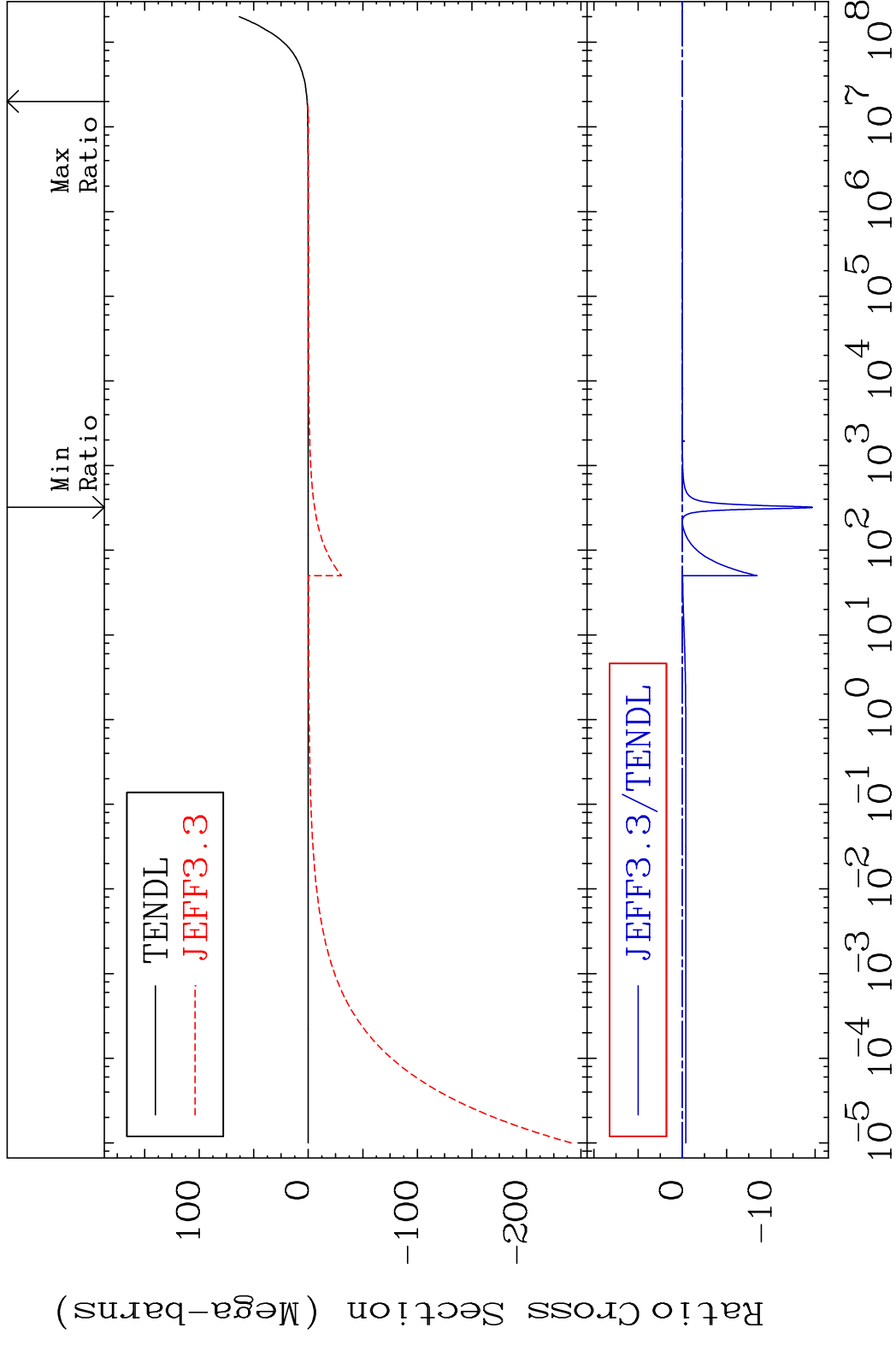


34

Incident Energy (eV)

58-Ce-144

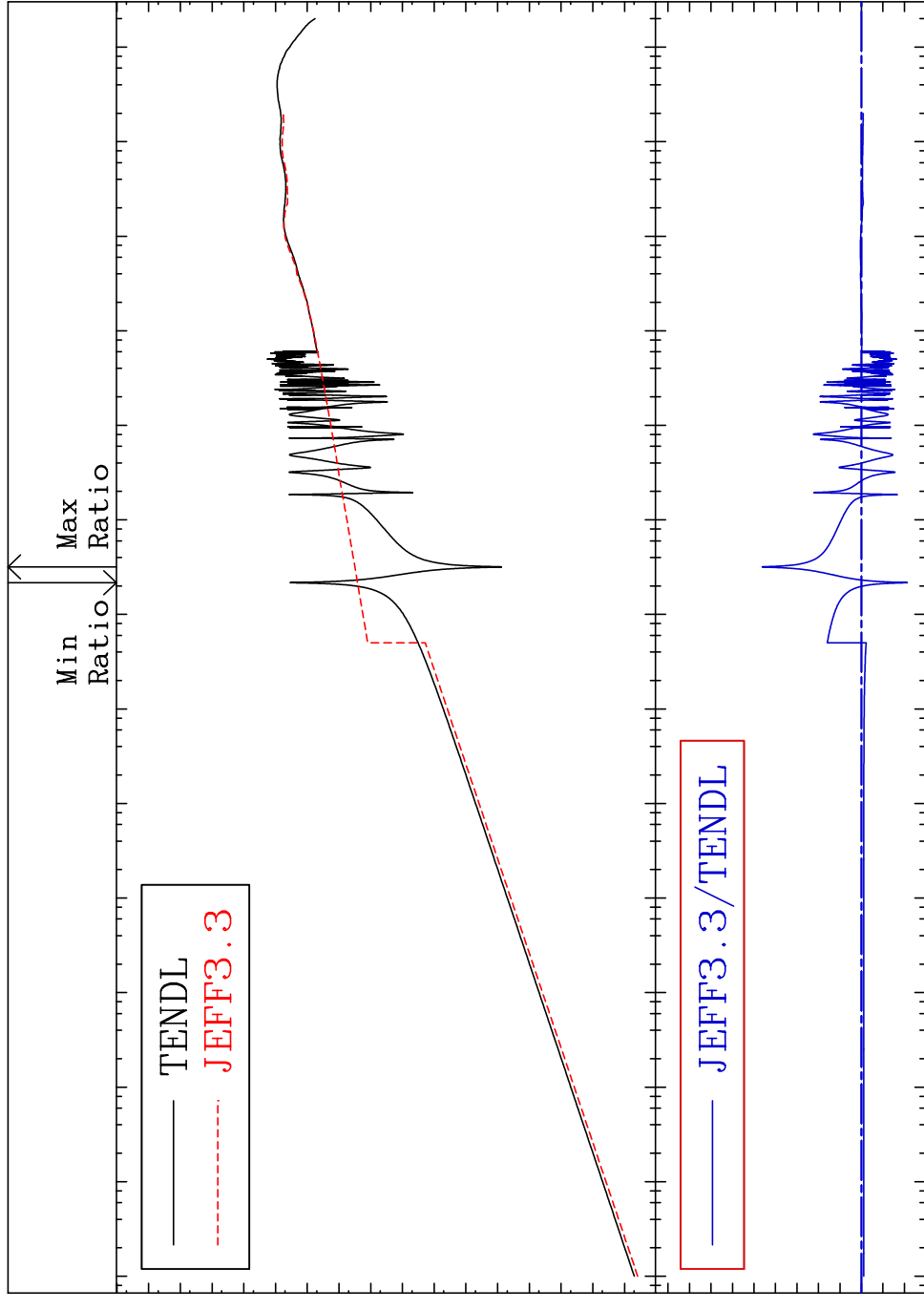
MAT 5849 Kerma total (eV-barns) 58-Ce-144
 Cross Section -9999. To 8.305 %



MAT 5849

Kerma elastic
Cross Section

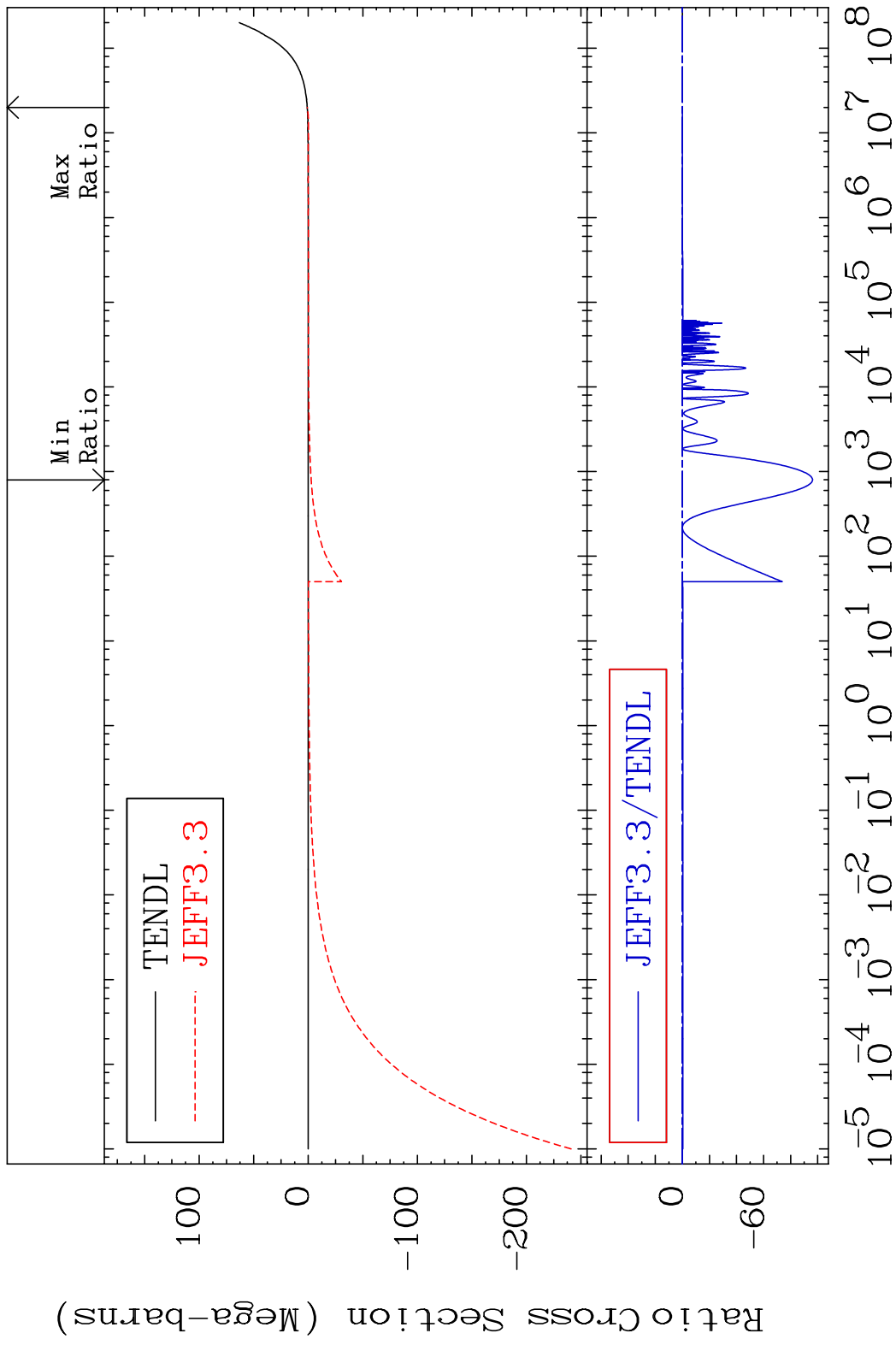
58-Ce-144
-99.26 To 9999. %



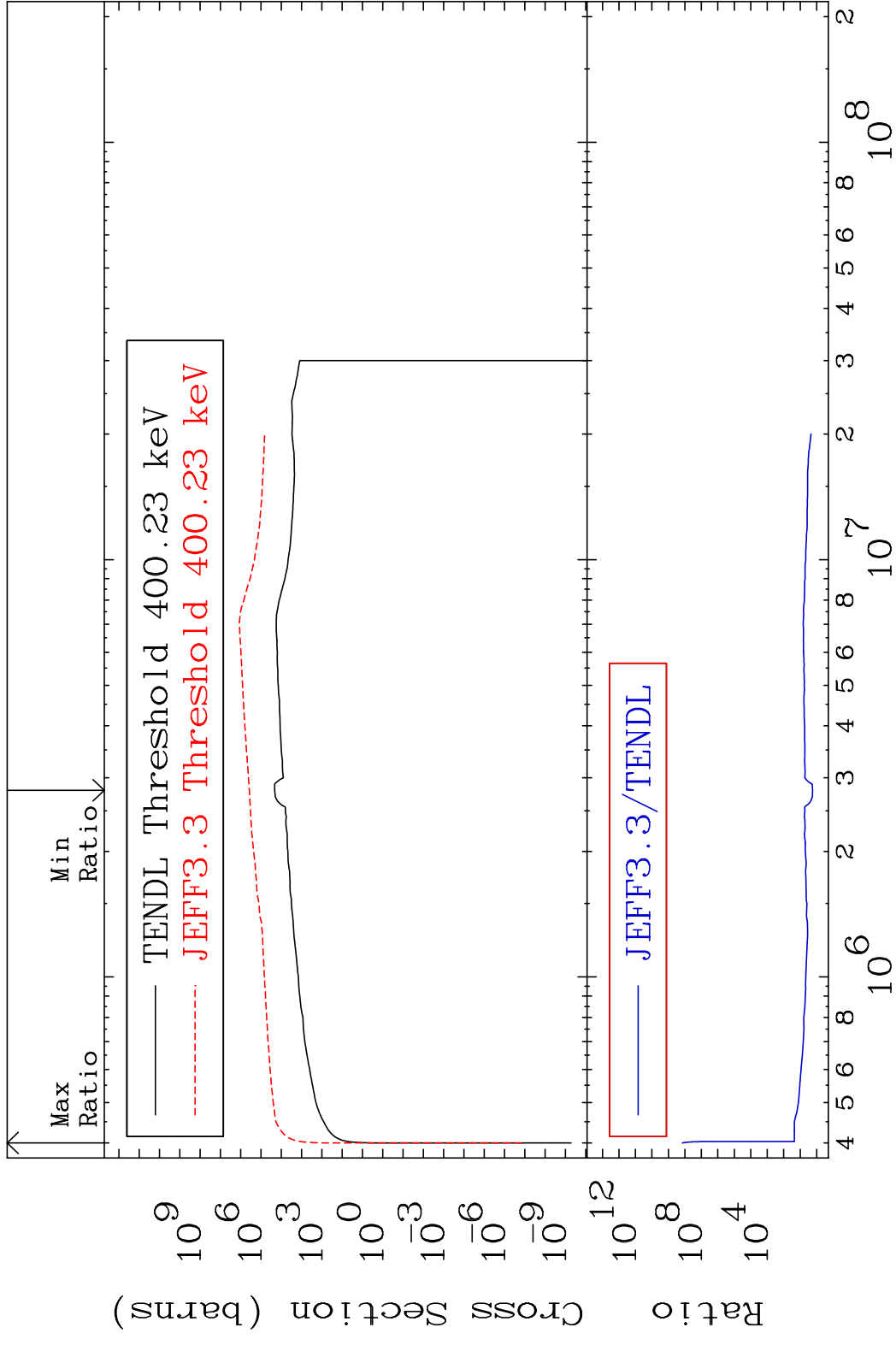
Cross Section (barns)
Ratio

10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸
Incident Energy (eV)

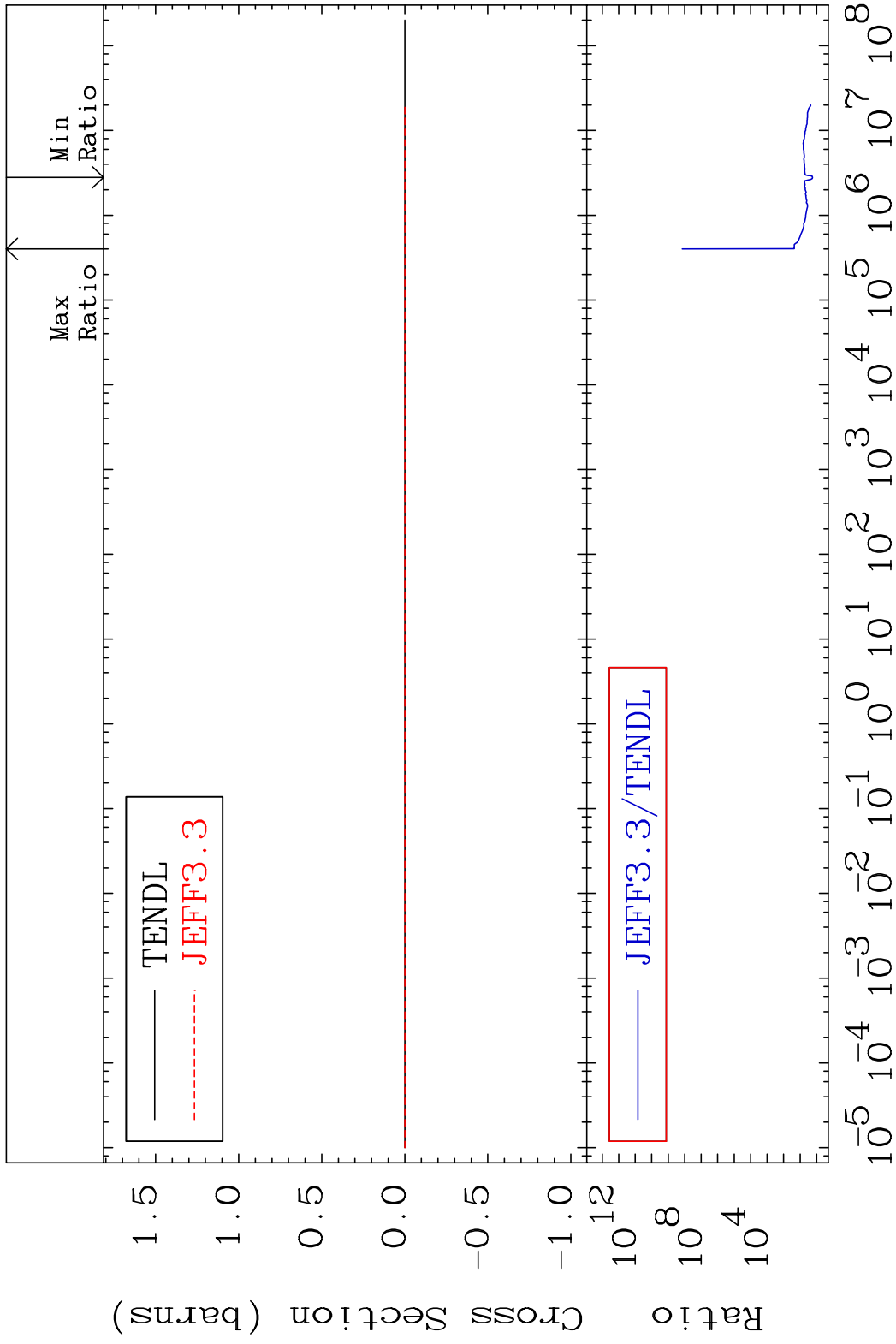
MAT 5849 Kerma non-elastic (all but mt2) 58-Ce-144
 Cross Section -9999. To 10.11 %



MAT 5849 Kerma inelastic (mt51-91) 58-Ce-144
 Cross Section 1684. To 9999. %

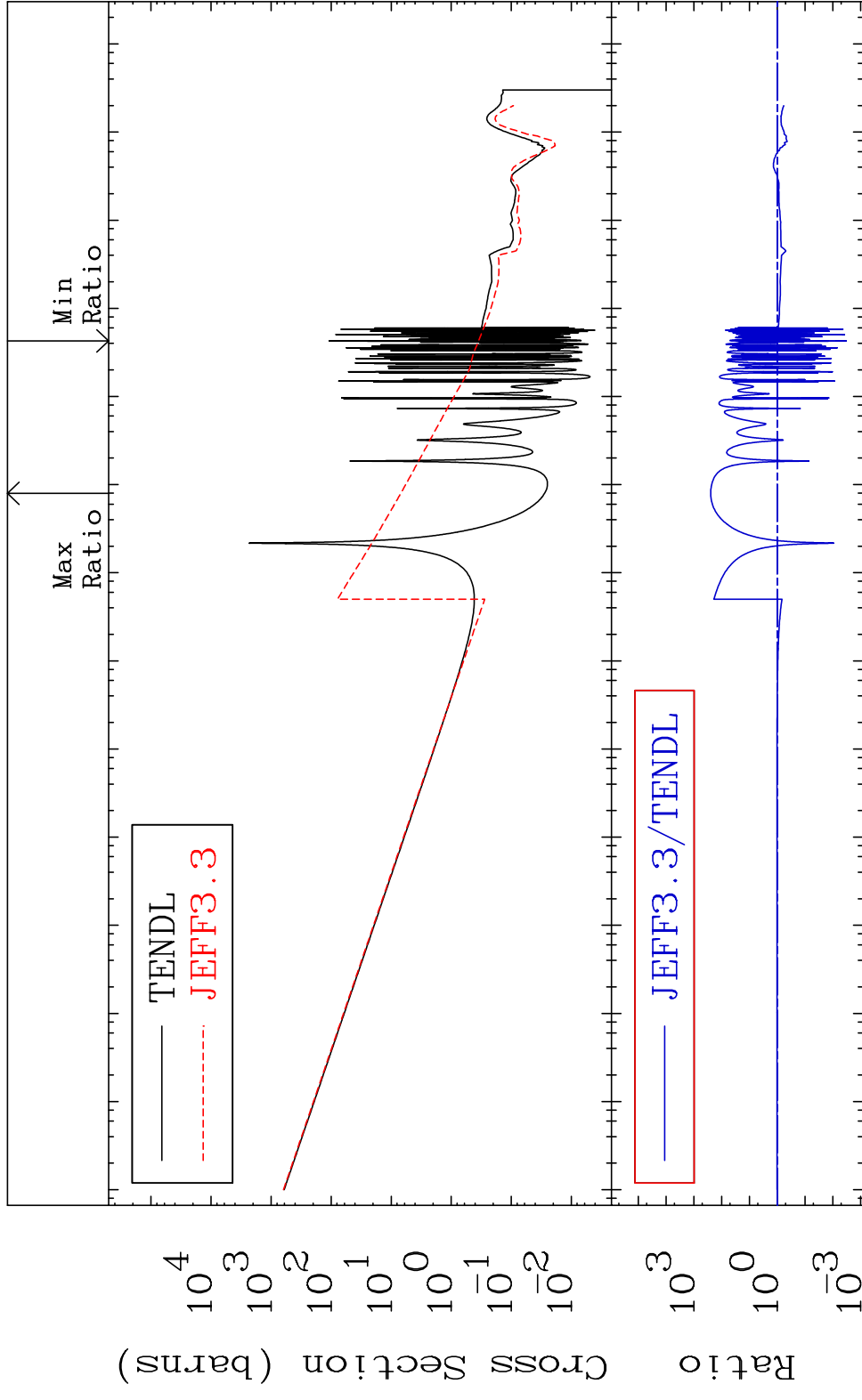


MAT 5849 Kerma fission (mt18 or mt19-20-21-38) 58-Ce-144
 Cross Section 1684. To 9999. %



MAT 5849

Kerma capture (mt102) 58-Ce-144
Cross Section -99.67 To 9999. %



10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

40

Incident Energy (eV)

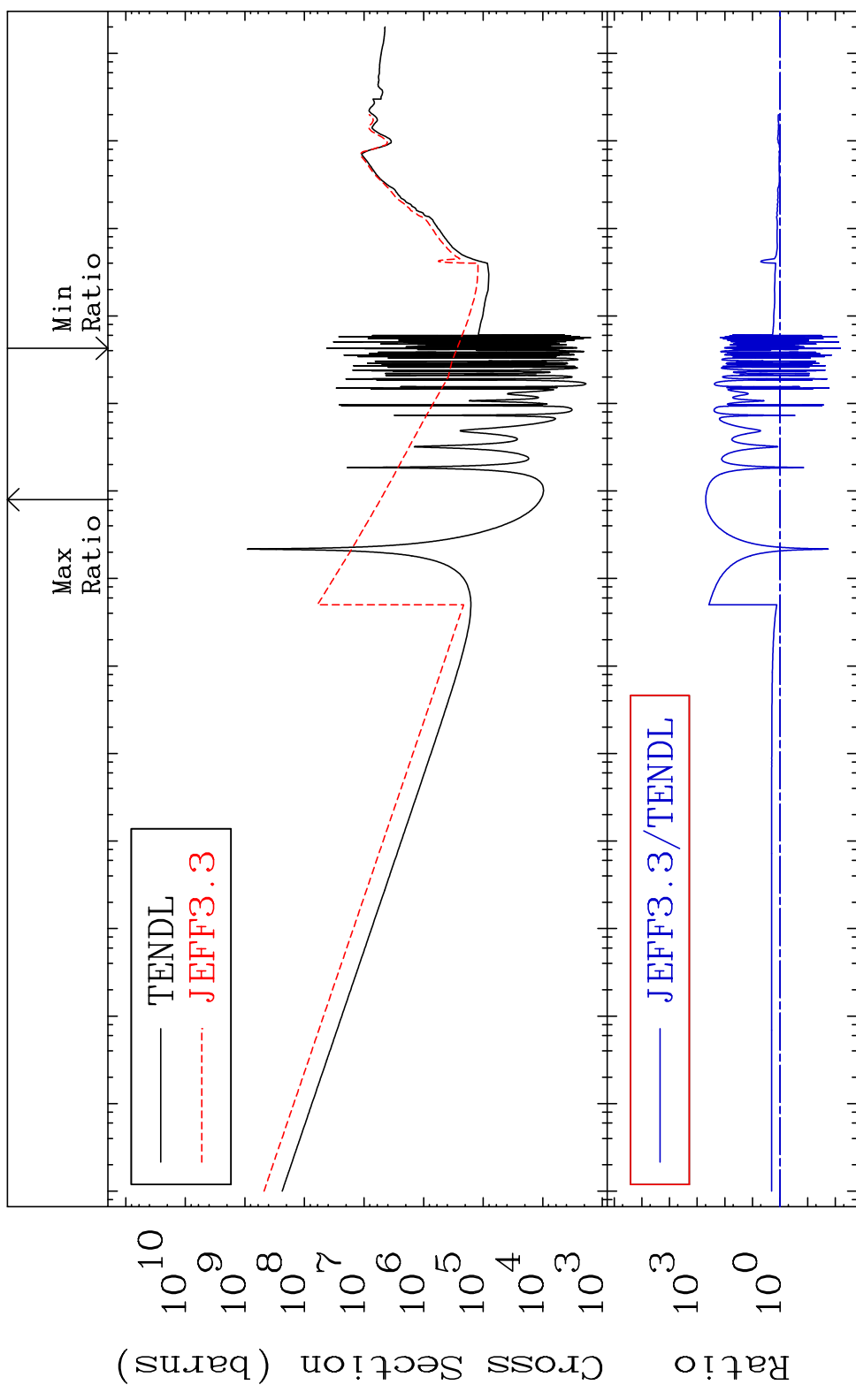
58-Ce-144

MAT 5849

Total photon (eV-barns)

58-Ce-144

Cross Section -99.34 To 9999. %

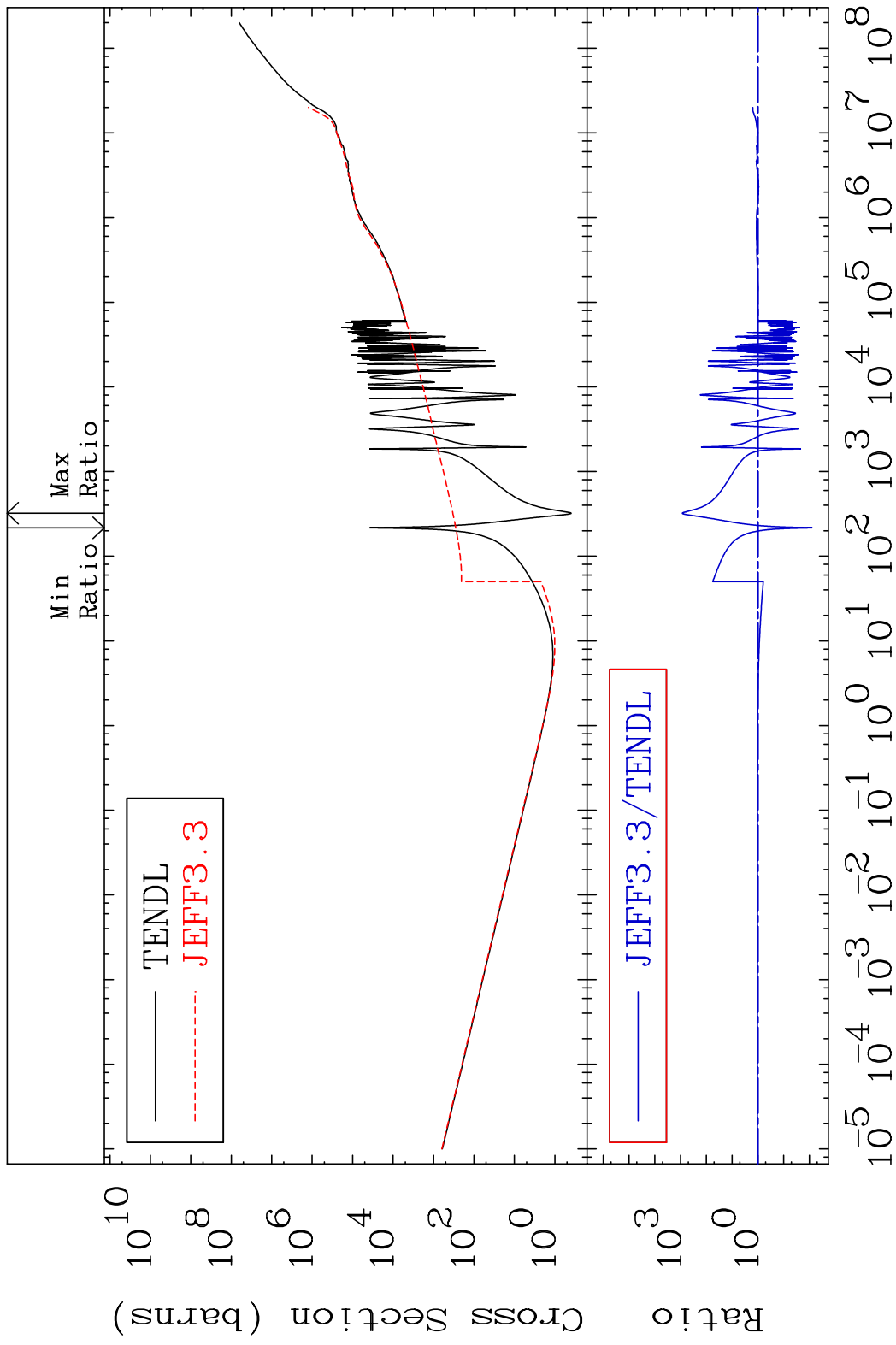


41

Incident Energy (eV)

58-Ce-144

MAT 5849 Total kinematic kerma (high limit) 58-Ce-144
 Cross Section -99.25 To 9999. %

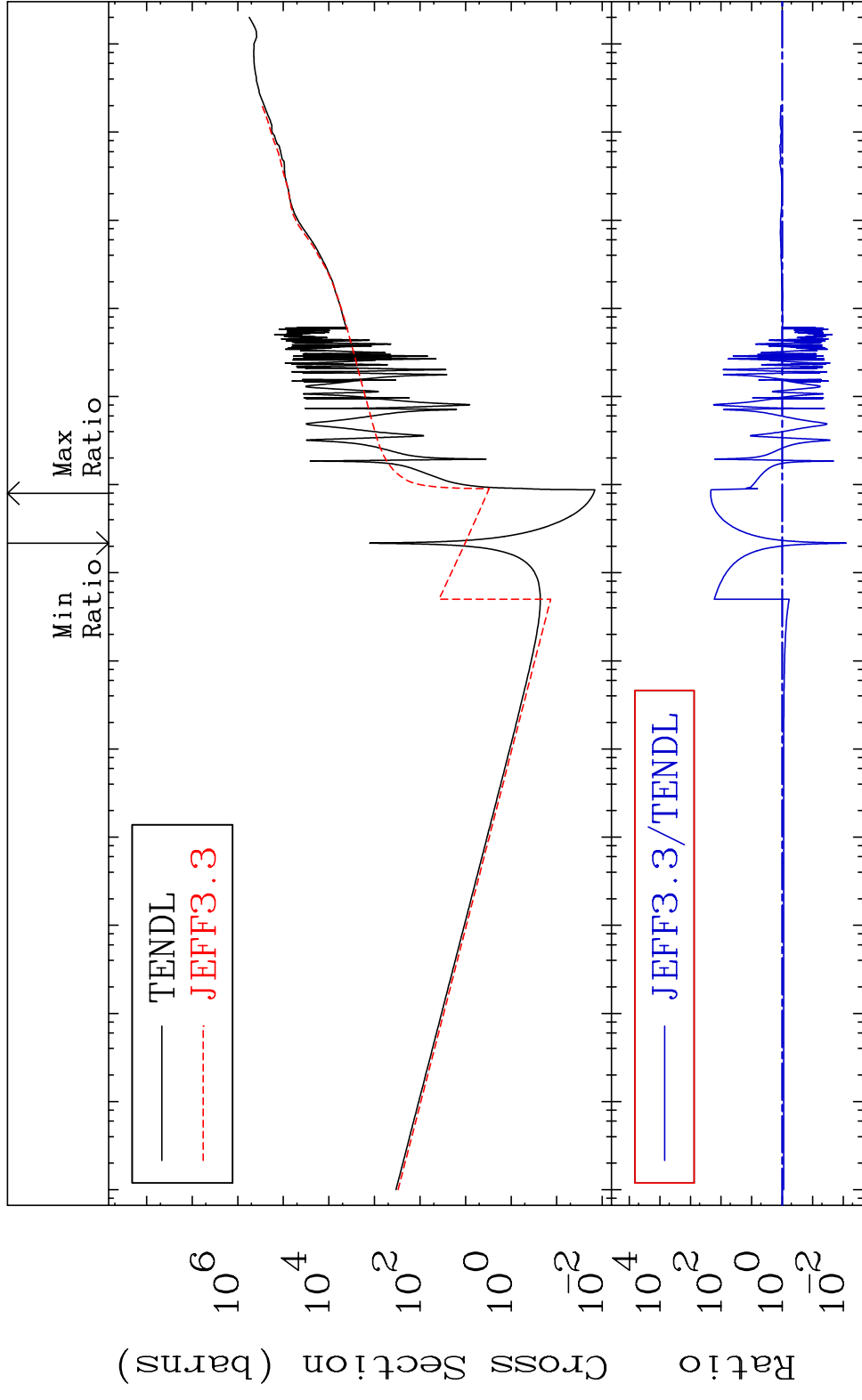


MAT 5849

Dpa total (eV-barns)

58-Ce-144

Cross Section -99.20 To 9999. %



43

Incident Energy (eV)

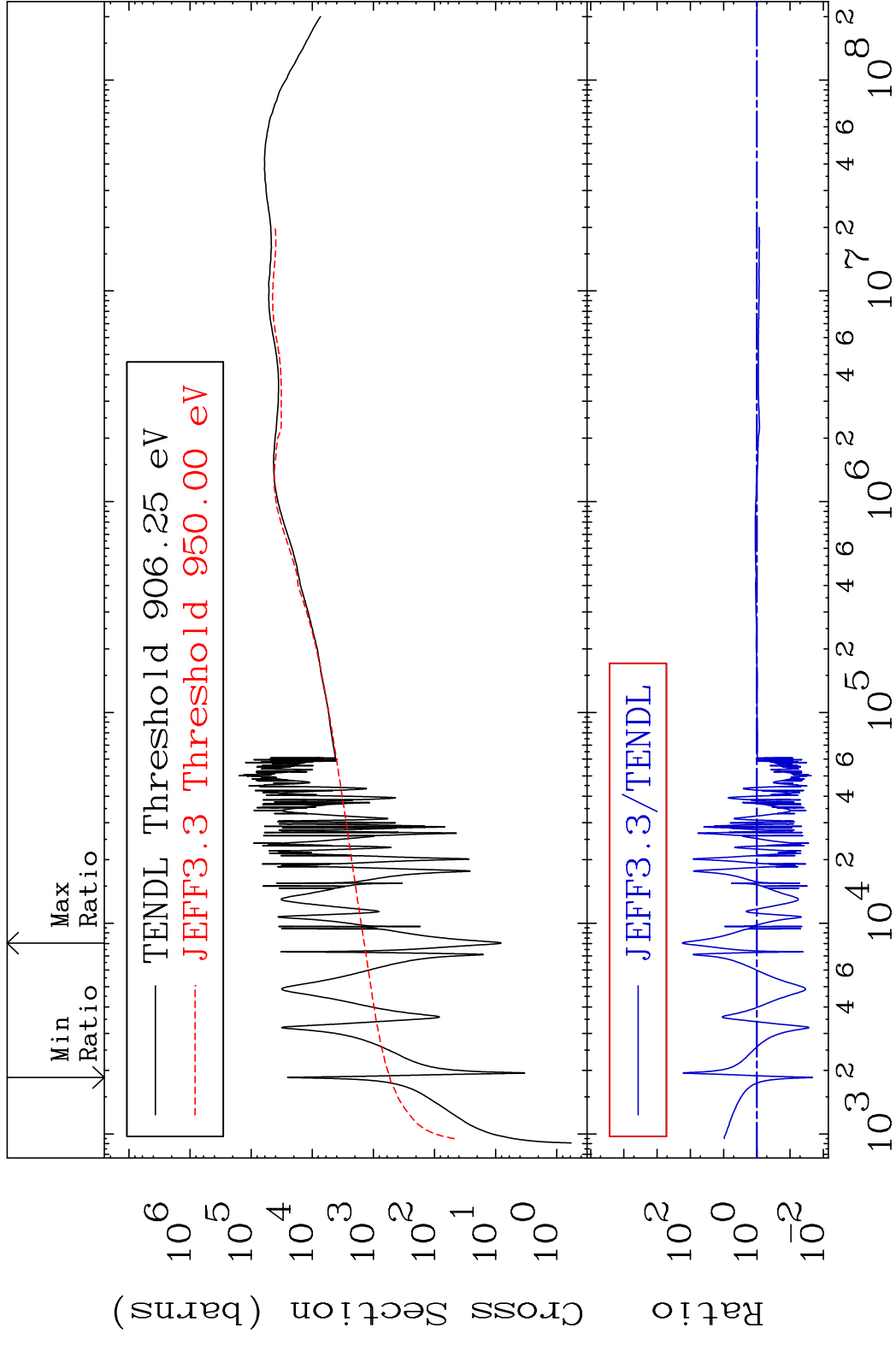
58-Ce-144

MAT 5849

Dpa elastic (mt2)

58-Ce-144

Cross Section -97.89 To 9999. %



44

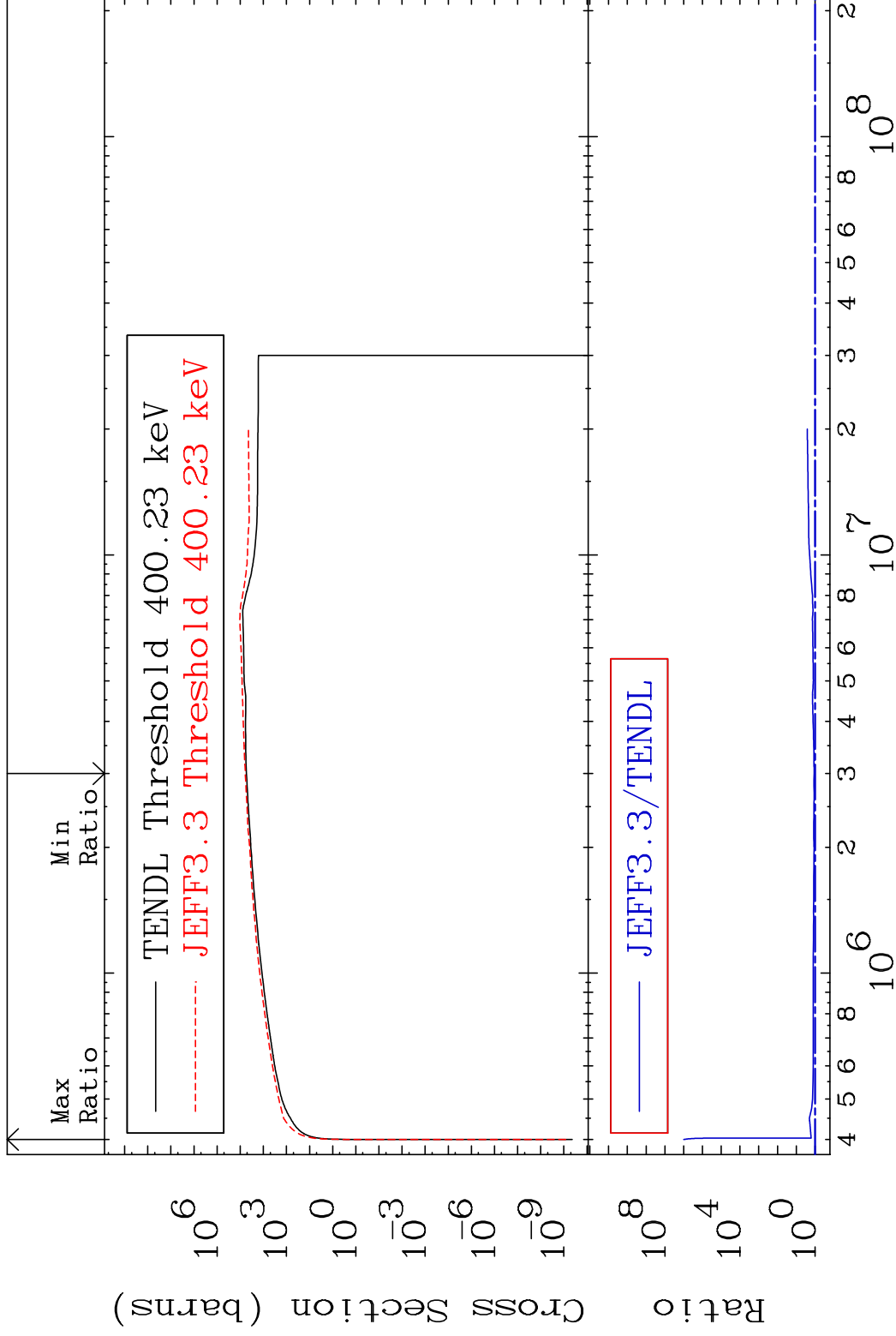
Incident Energy (eV)

58-Ce-144

MAT 5849

Dpa inelastic (mt51-91) 58-Ce-144

Cross Section 11.98 To 9999. %



45

Incident Energy (eV)

58-Ce-144

MAT 5849 Dpa disappearance (mt102 -120) 58-Ce-144
 Cross Section -99.71 To 9999. %

