

Program Complot
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

U.S.A.

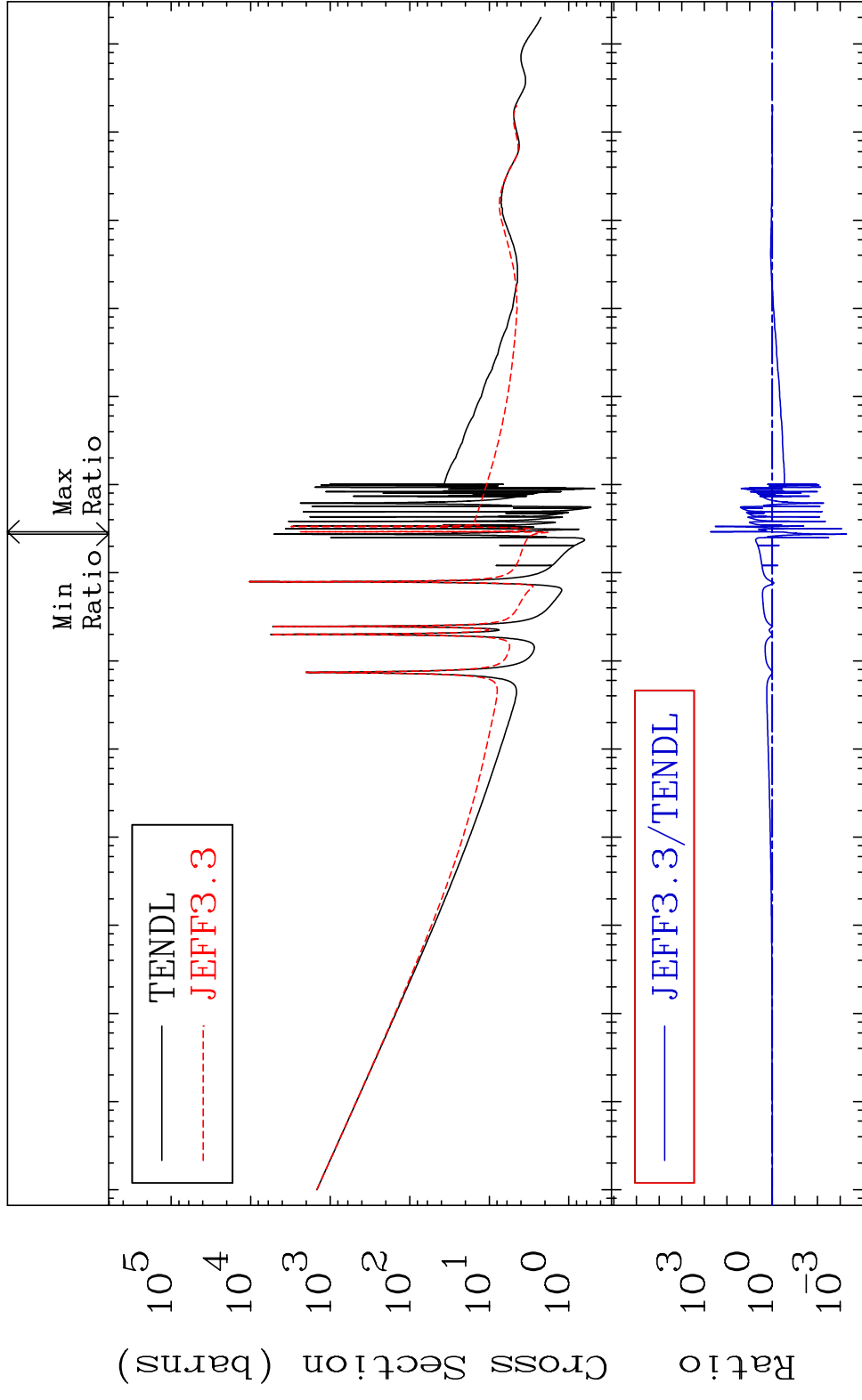
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 5840

Total Cross Section
58-Ce-141
-99.95 To 9999. %



1

Incident Energy (eV)

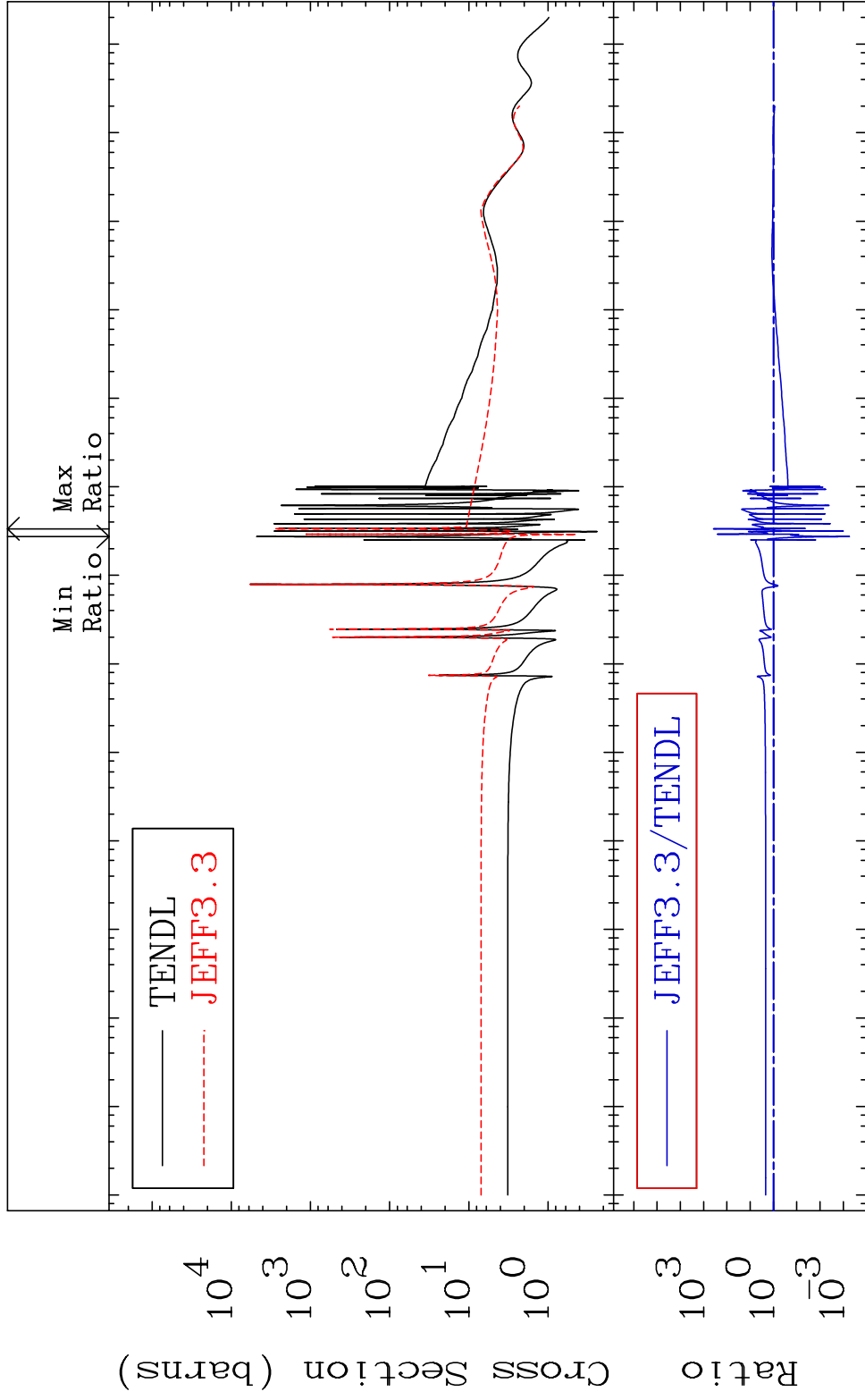
58-Ce-141

MAT 5840

Elastic

58-Ce-141

Cross Section -99.94 To 9999. %

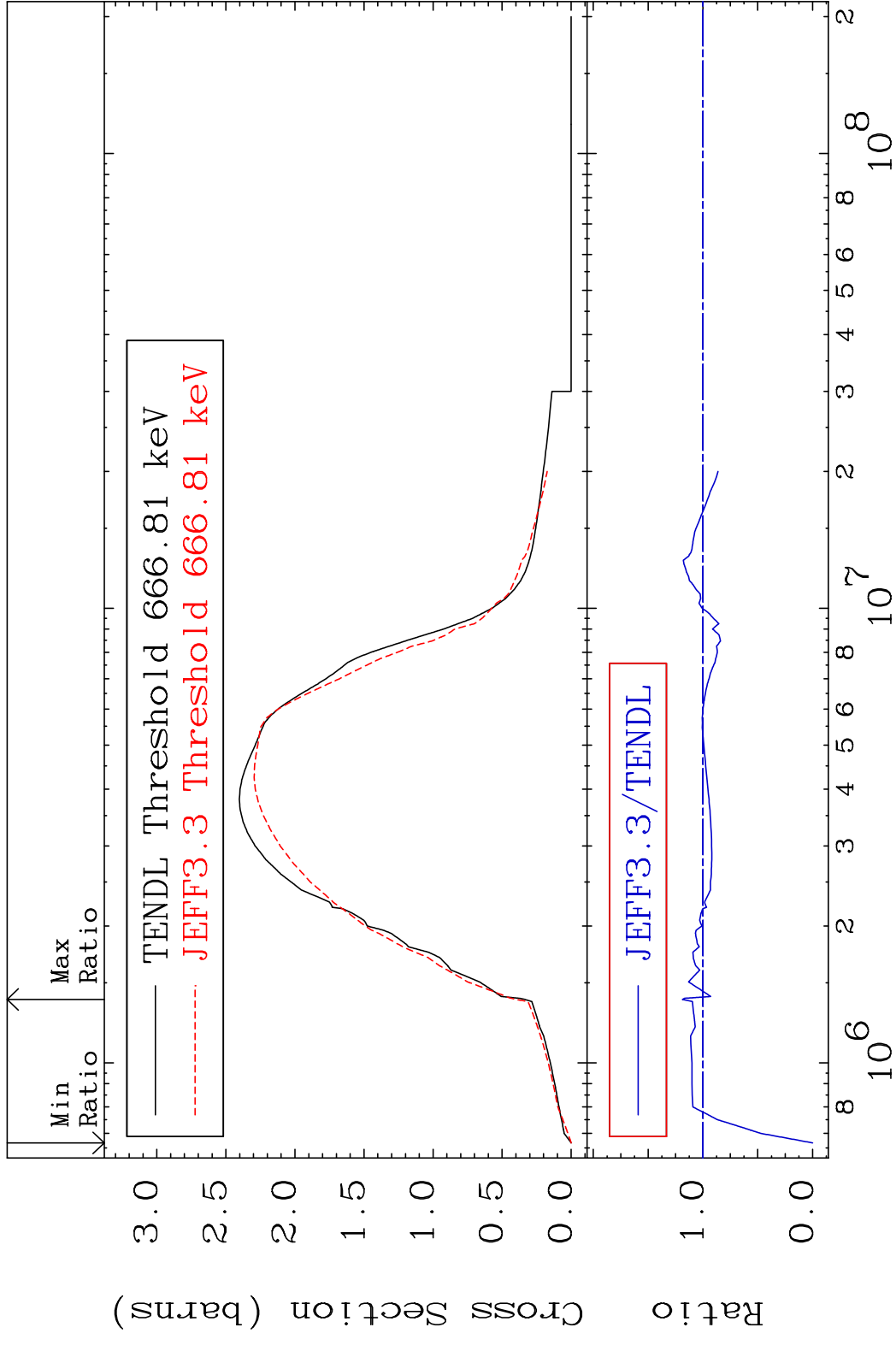


2

Incident Energy (eV)

58-Ce-141

MAT 5840 Inelastic 58-Ce-141
 Cross Section -100.0 To 18.78 %



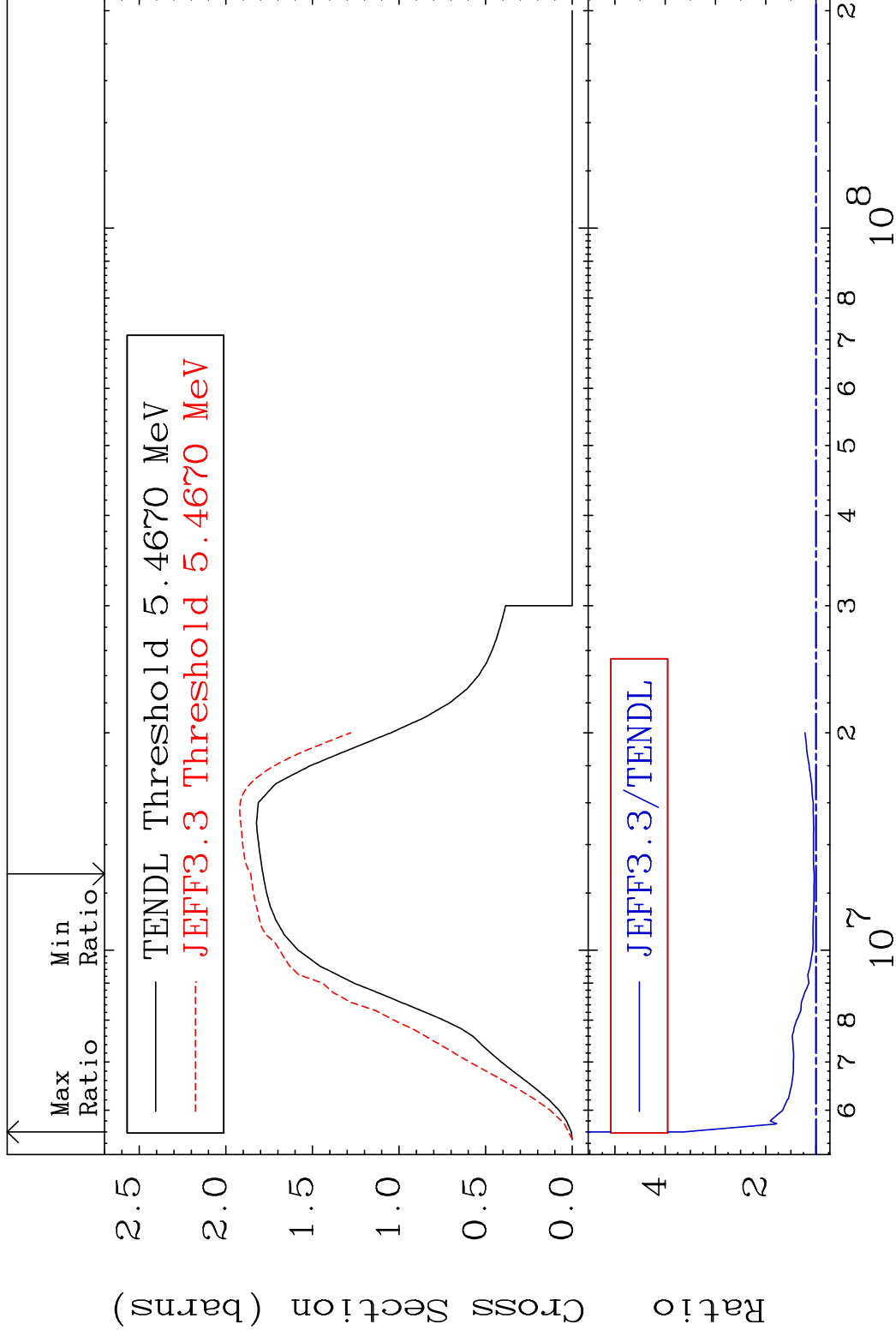
3 Incident Energy (eV) 58-Ce-141

MAT 5840

(n,2n)

58-Ce-141

Cross Section 3.945 To 263.5 %



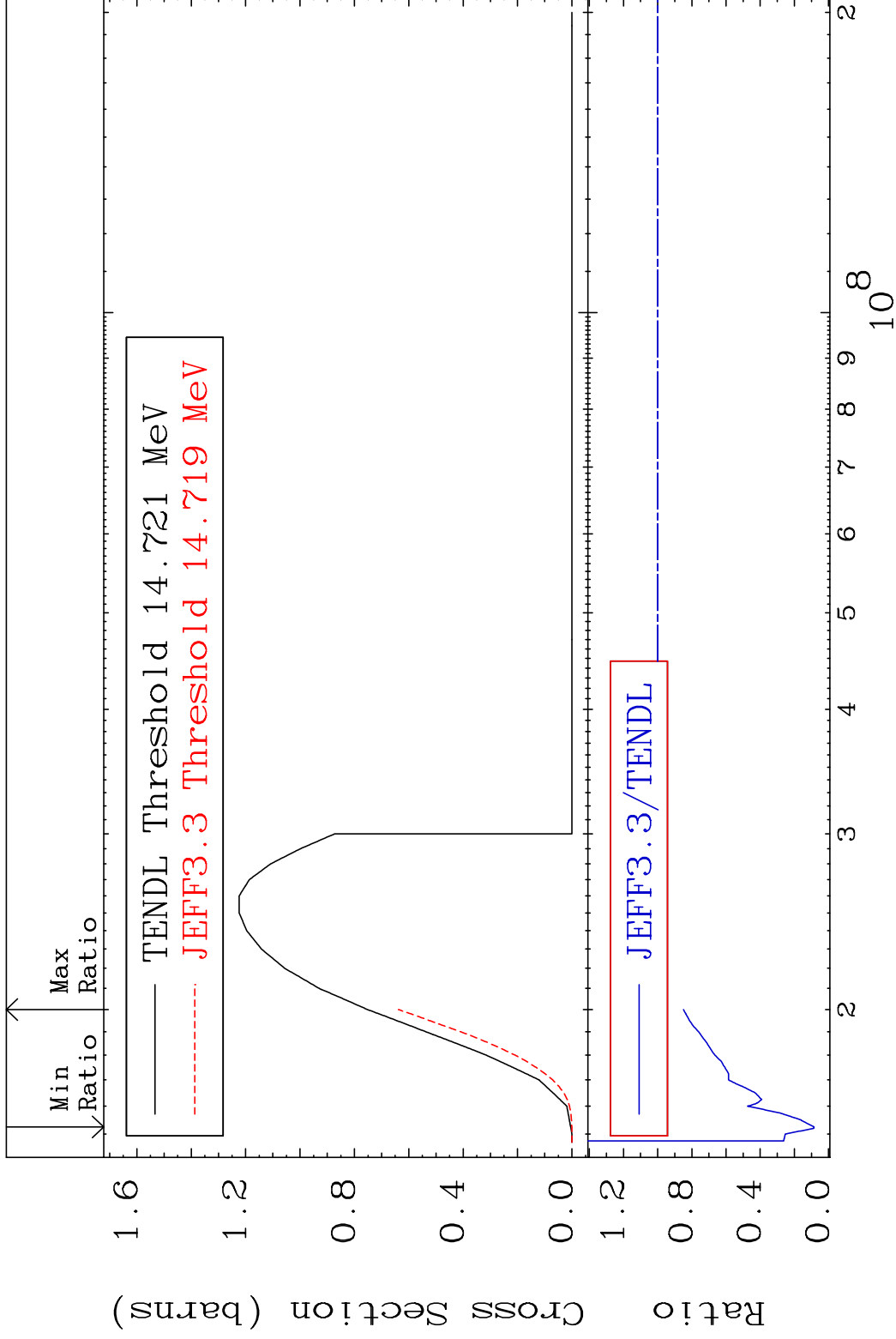
4 Incident Energy (eV) 58-Ce-141

MAT 5840

(n,3n)

58-Ce-141

Cross Section -91.50 To -15.09%

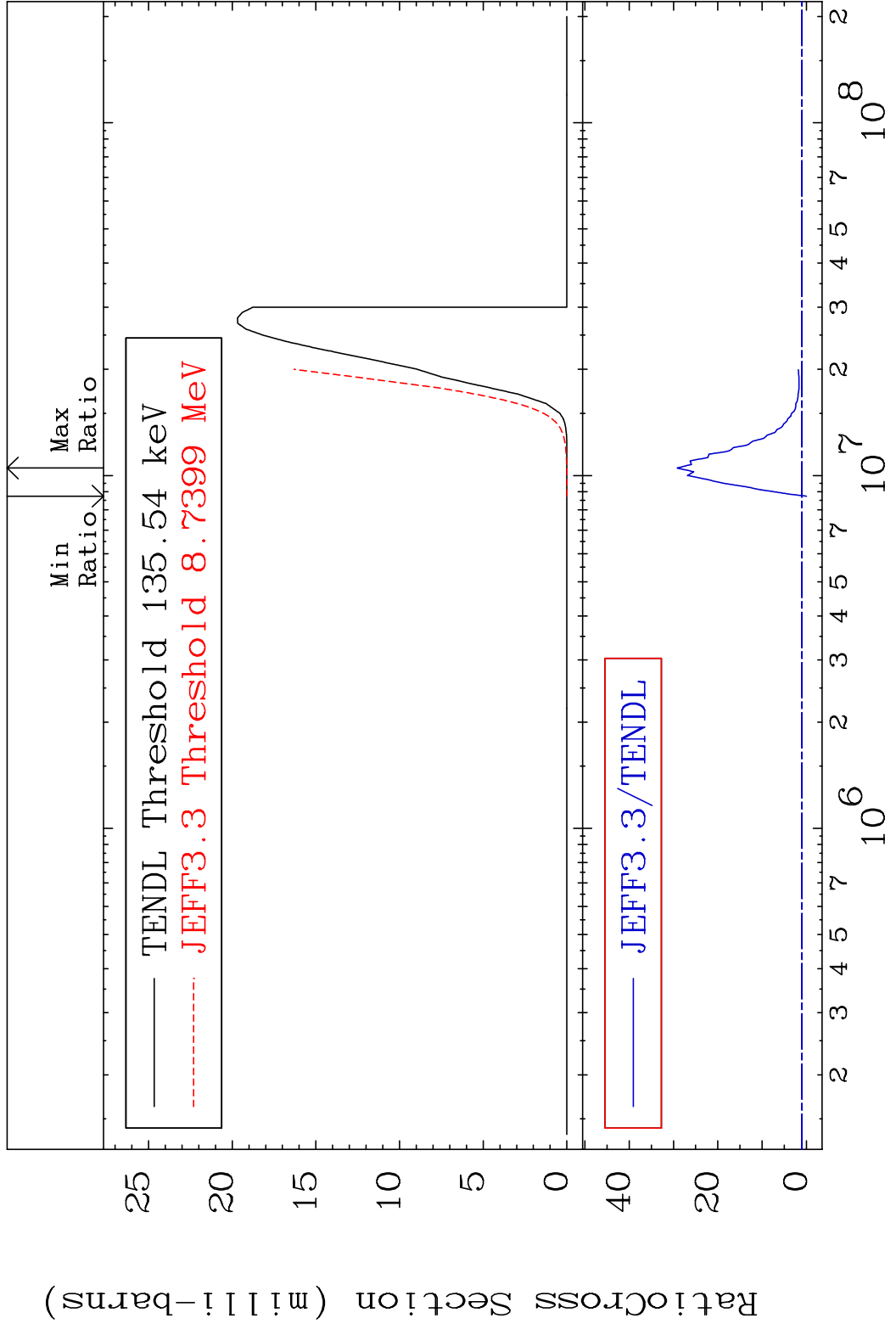


5

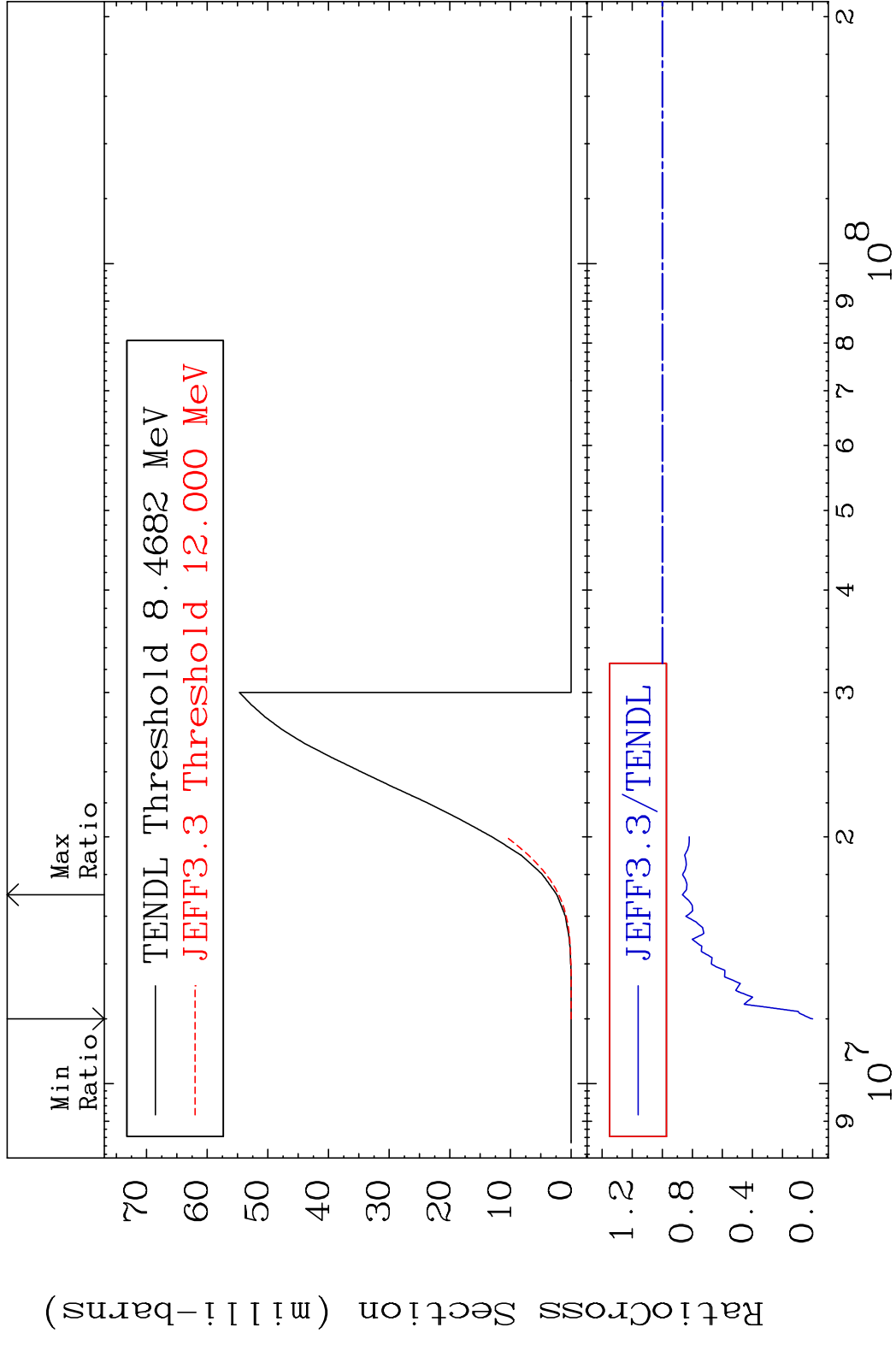
Incident Energy (eV)

58-Ce-141

MAT 5840 (n, n') α 58-Ce-141
 Cross Section -100.0 To 2817. %

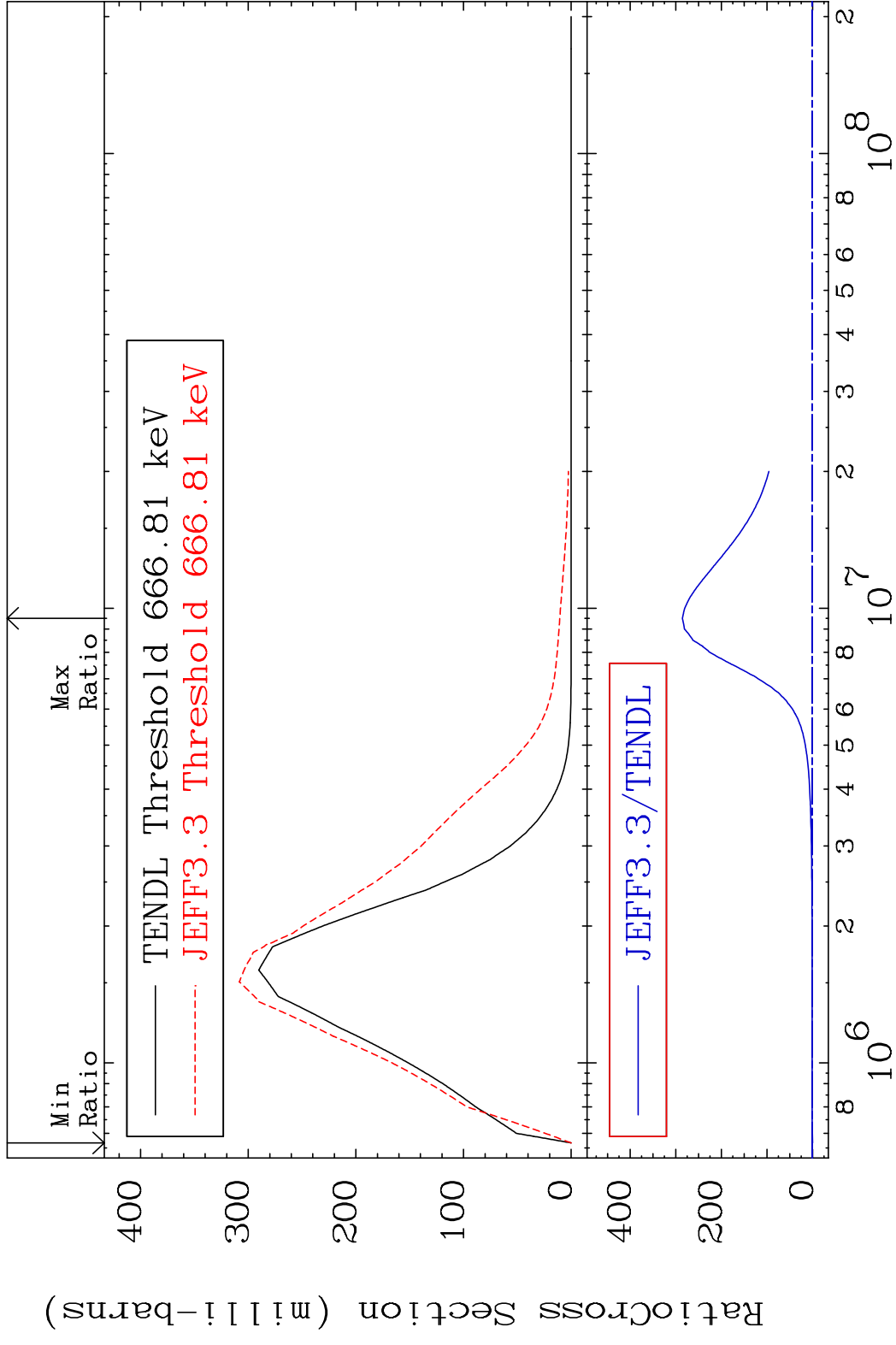


MAT 5840 (n, n') p 58-Ce-141
 Cross Section -100.0 To -13.34%



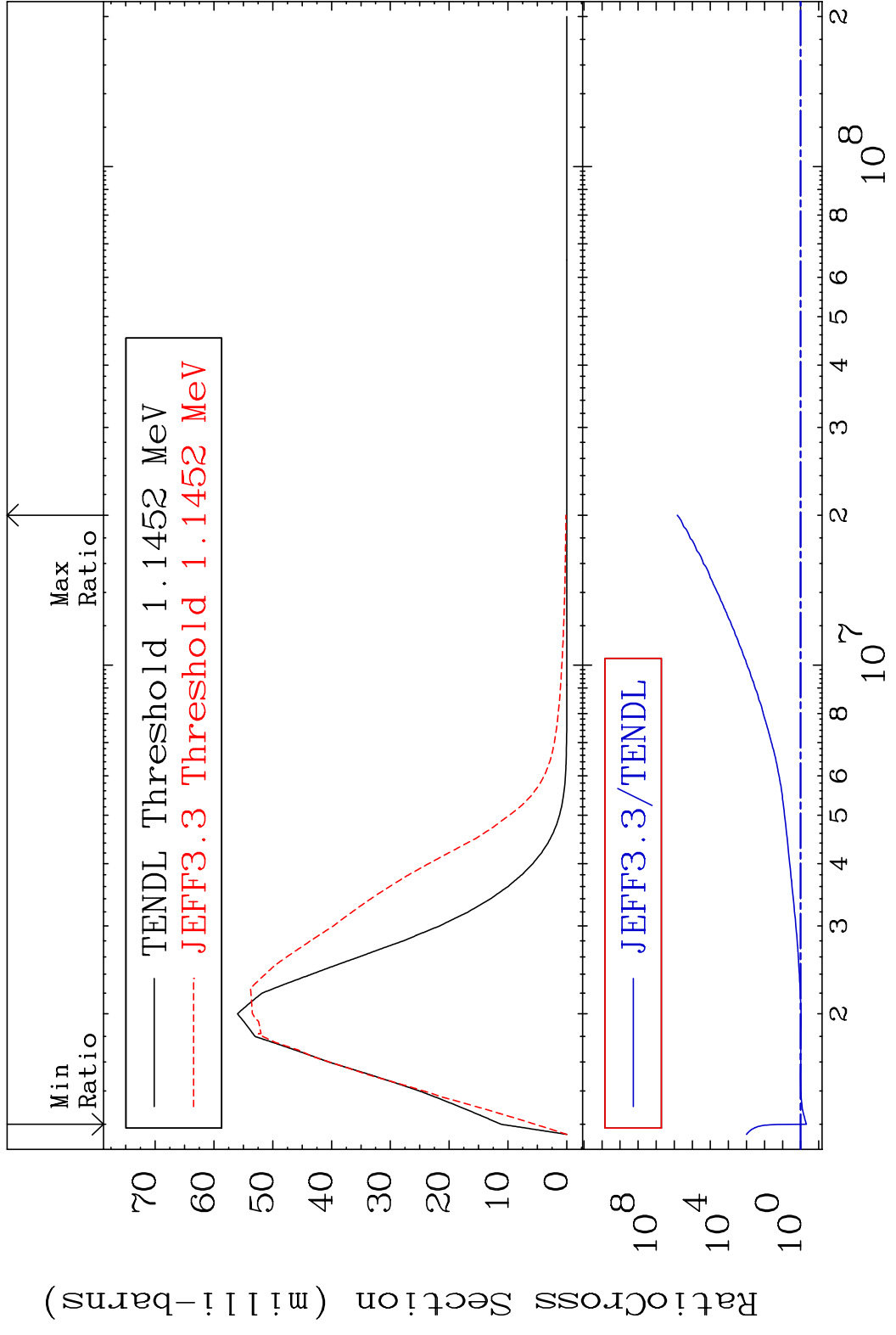
7 Incident Energy (eV) 58-Ce-141

MAT 5840 MT= 51 (n, n') Level 58-Ce-141
 Cross Section -100.0 To 9999. %

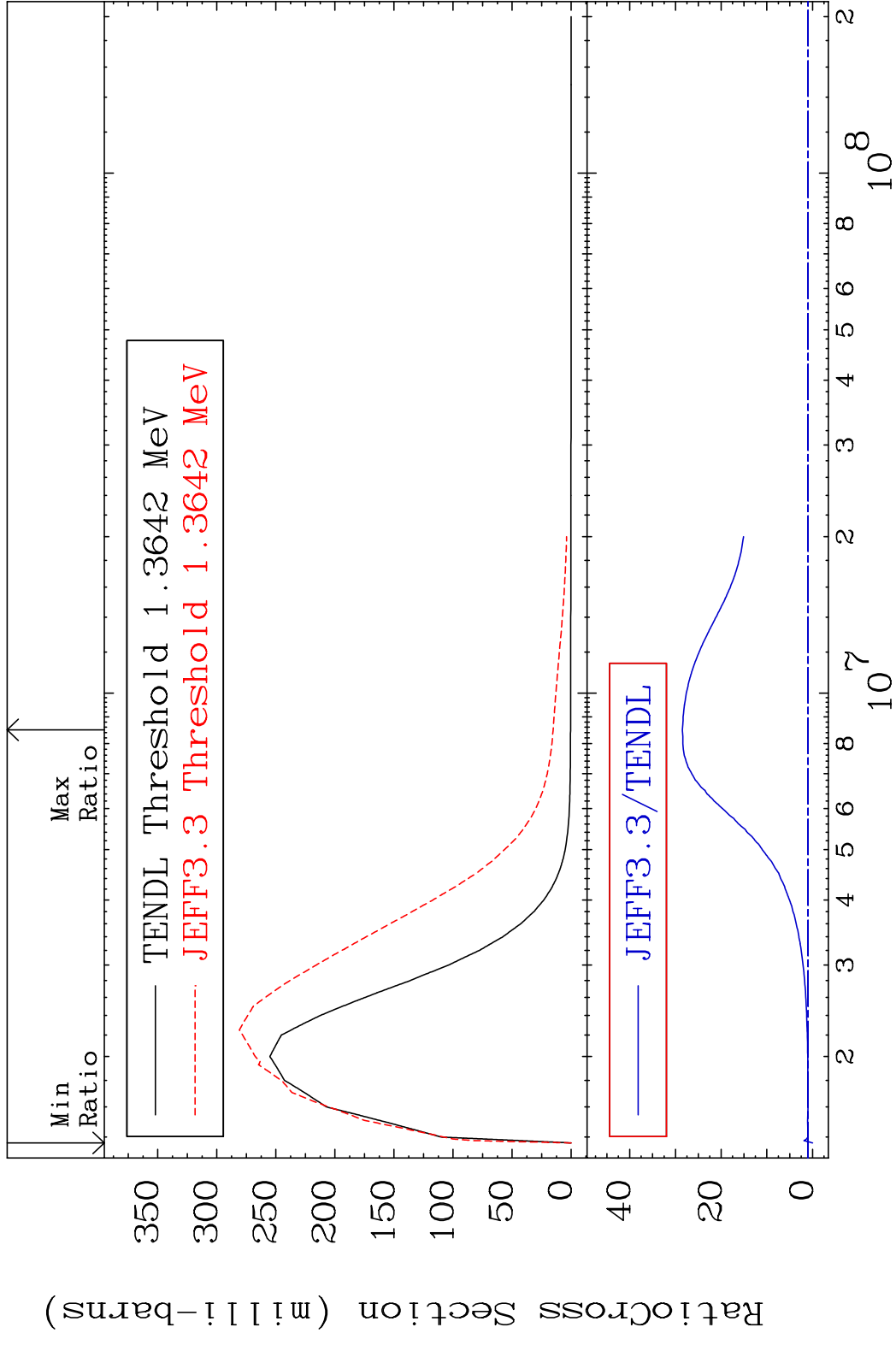


8 10⁶ 2 3 4 5 6 8 10⁷ 2 3 4 5 6 8 10⁸ 2 58-Ce-141

MAT 5840 MT= 52 (n, n') Level 58-Ce-141
 Cross Section -51.89 To 9999. %

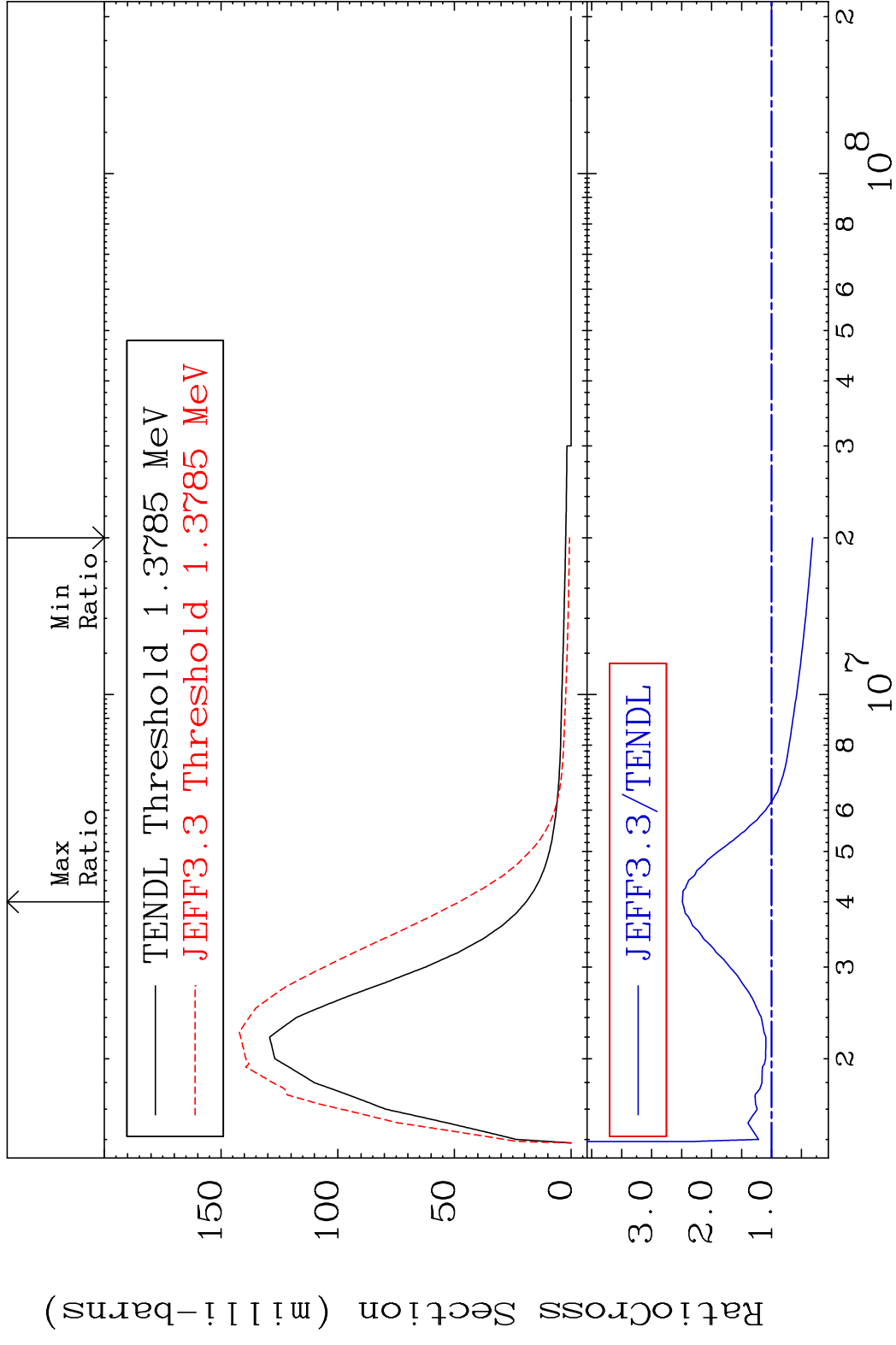


MAT 5840 MT= 53 (n, n') Level 58-Ce-141
 Cross Section -100.0 To 2749. %

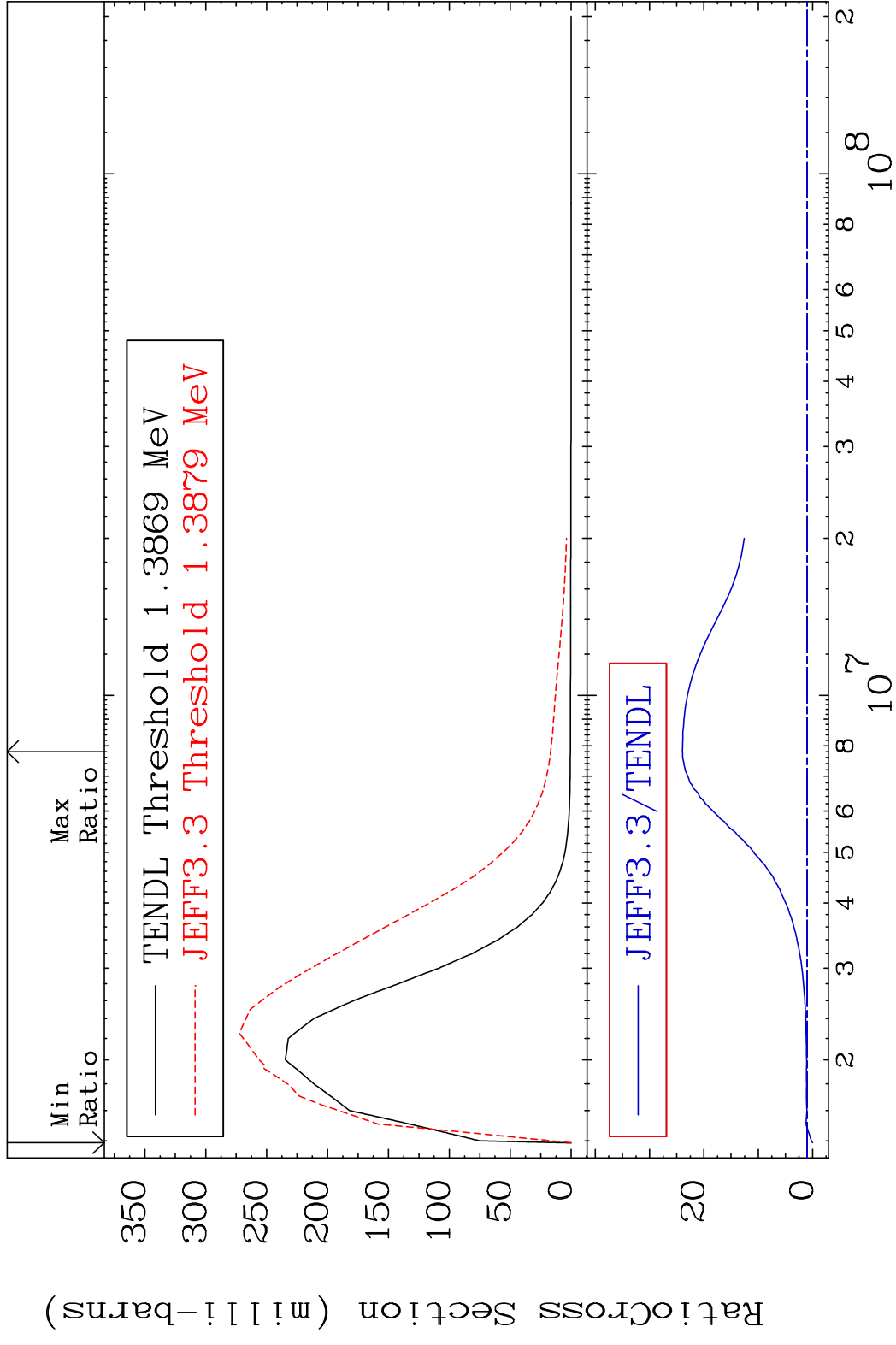


10 Incident Energy (eV) 58-Ce-141

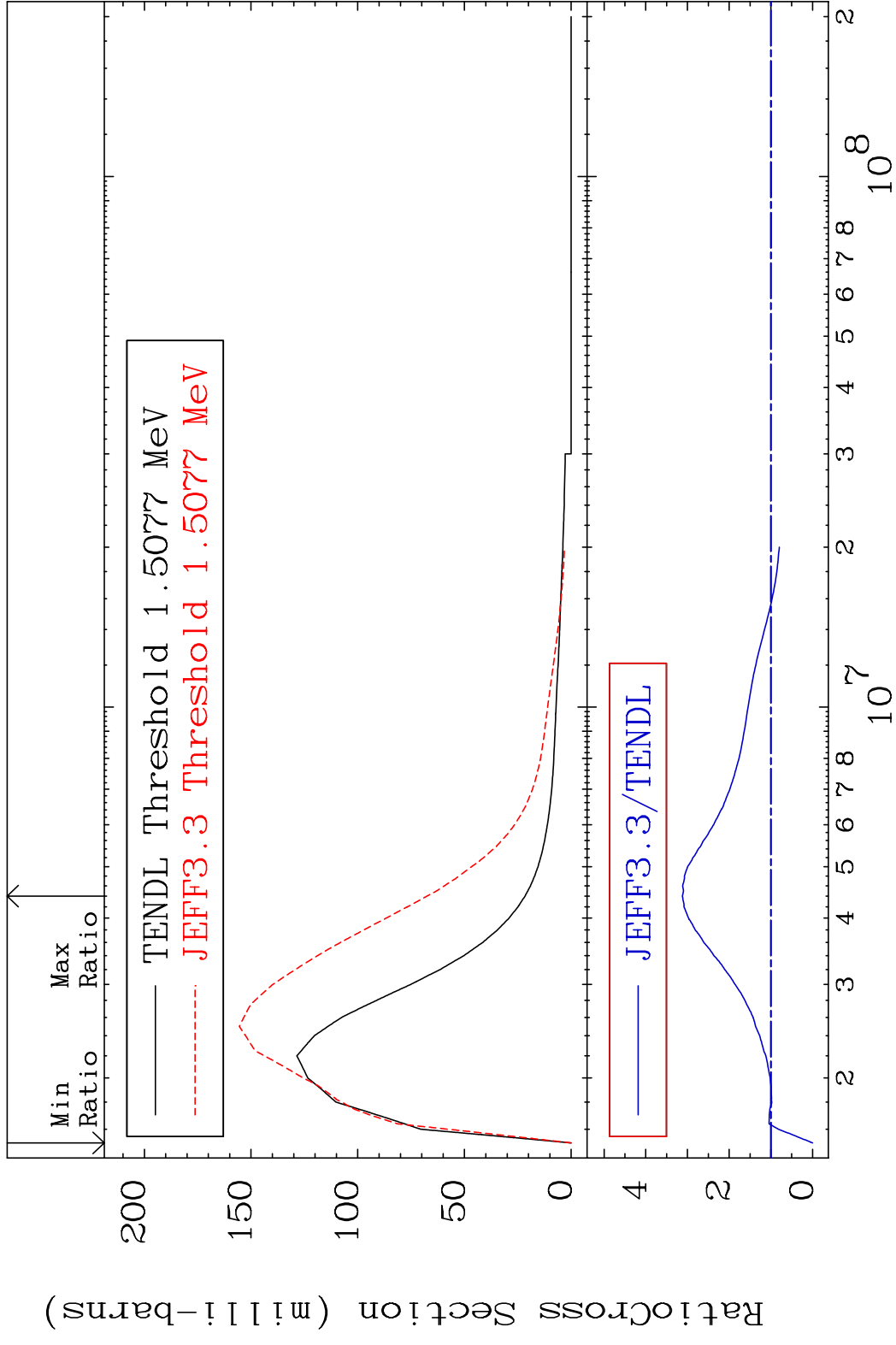
MAT 5840 MT= 54 (n, n') Level 58-Ce-141
 Cross Section -68.39 To 148.8 %



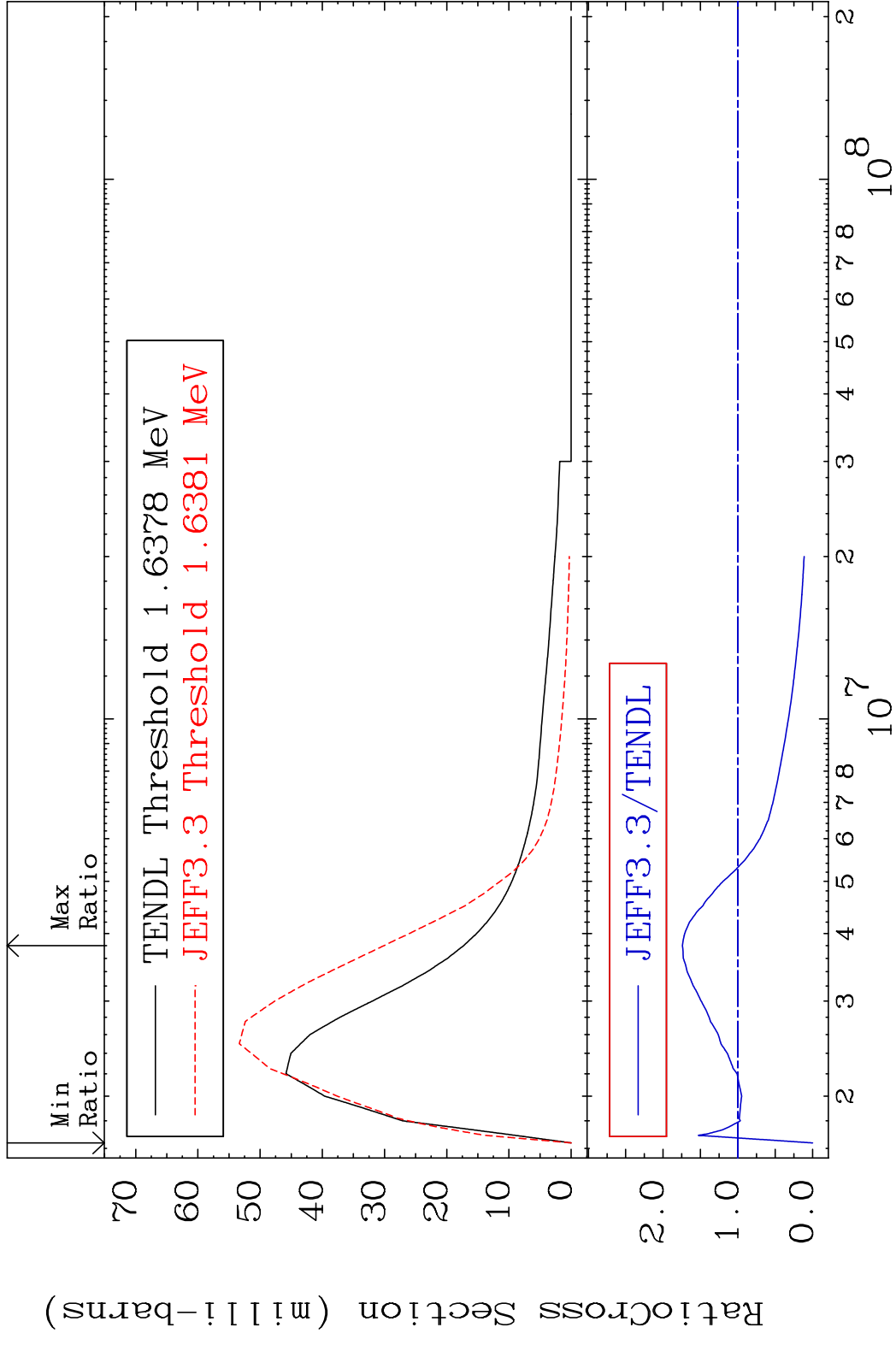
MAT 5840 MT= 55 (n,n') Level 58-Ce-141
 Cross Section -100.0 To 2297. %



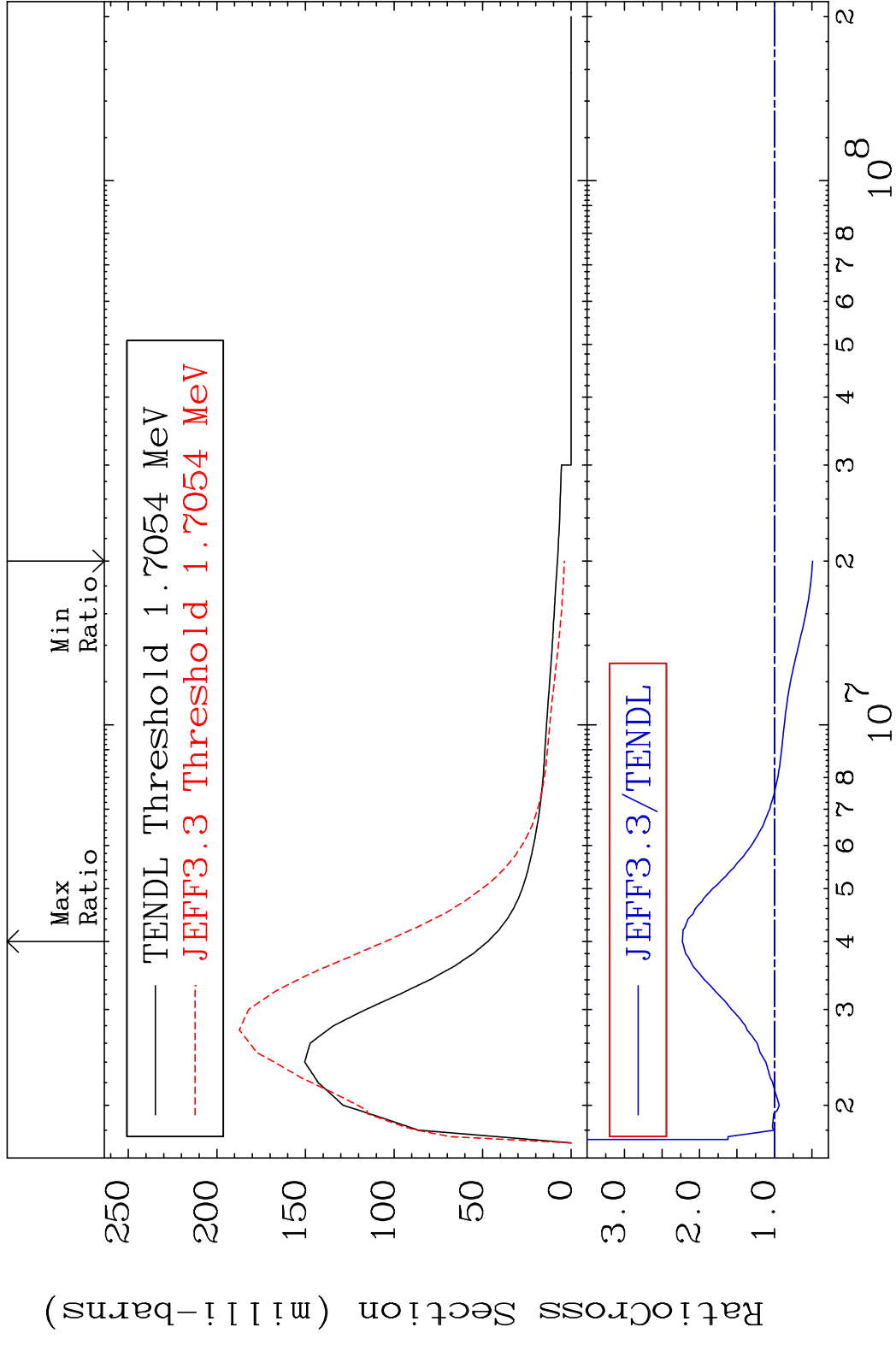
MAT 5840 MT= 56 (n,n') Level 58-Ce-141
 Cross Section -100.0 To 212.3 %



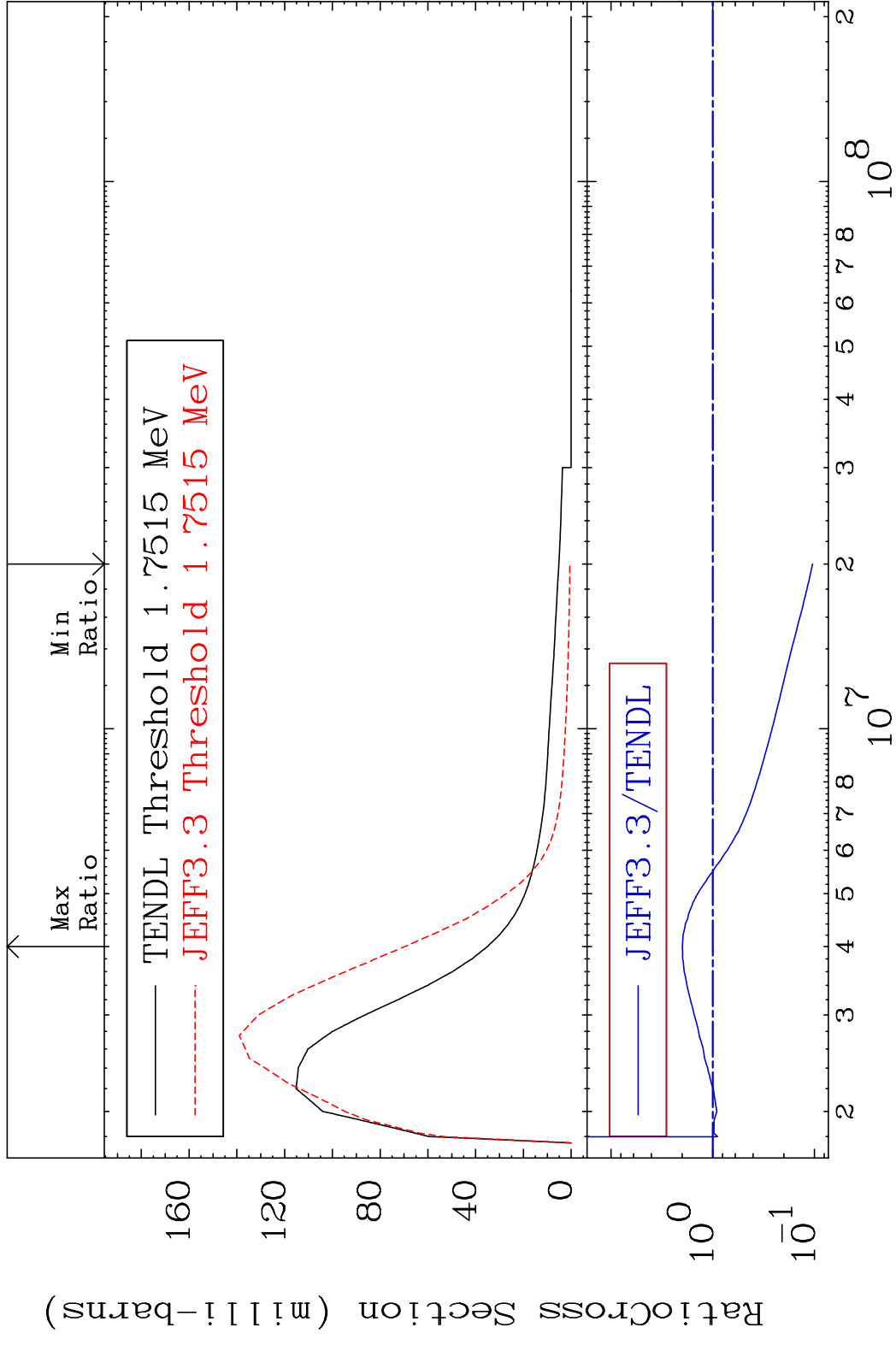
MAT 5840 MT= 57 (n,n') Level 58-Ce-141
 Cross Section -100.0 To 74.22 %



MAT 5840 MT= 58 (n, n') Level 58-Ce-141
 Cross Section -50.84 To 122.8 %

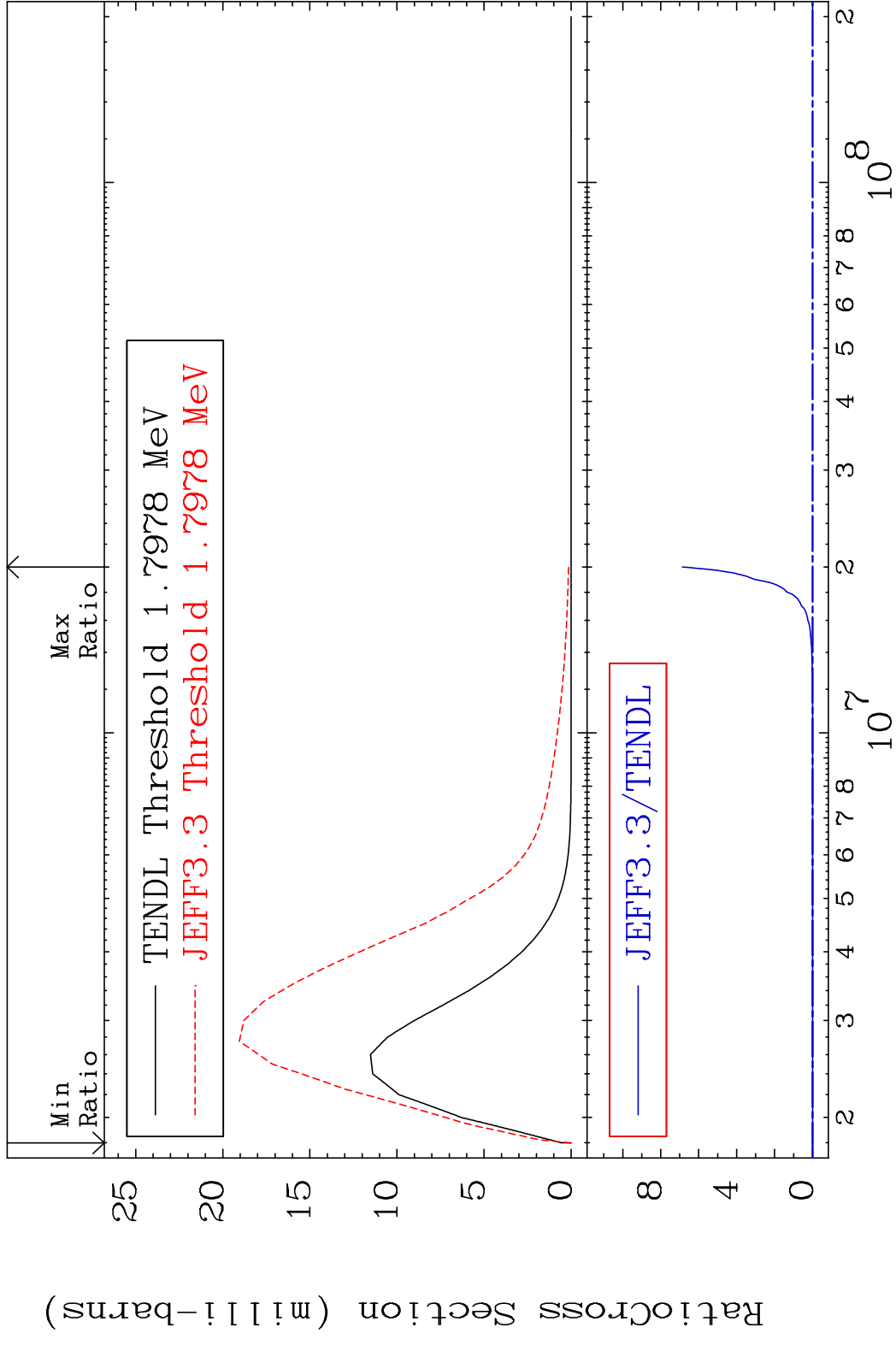


MAT 5840 MT= 59 (n, n') Level 58-Ce-141
 Cross Section -89.57 To 98.67 %

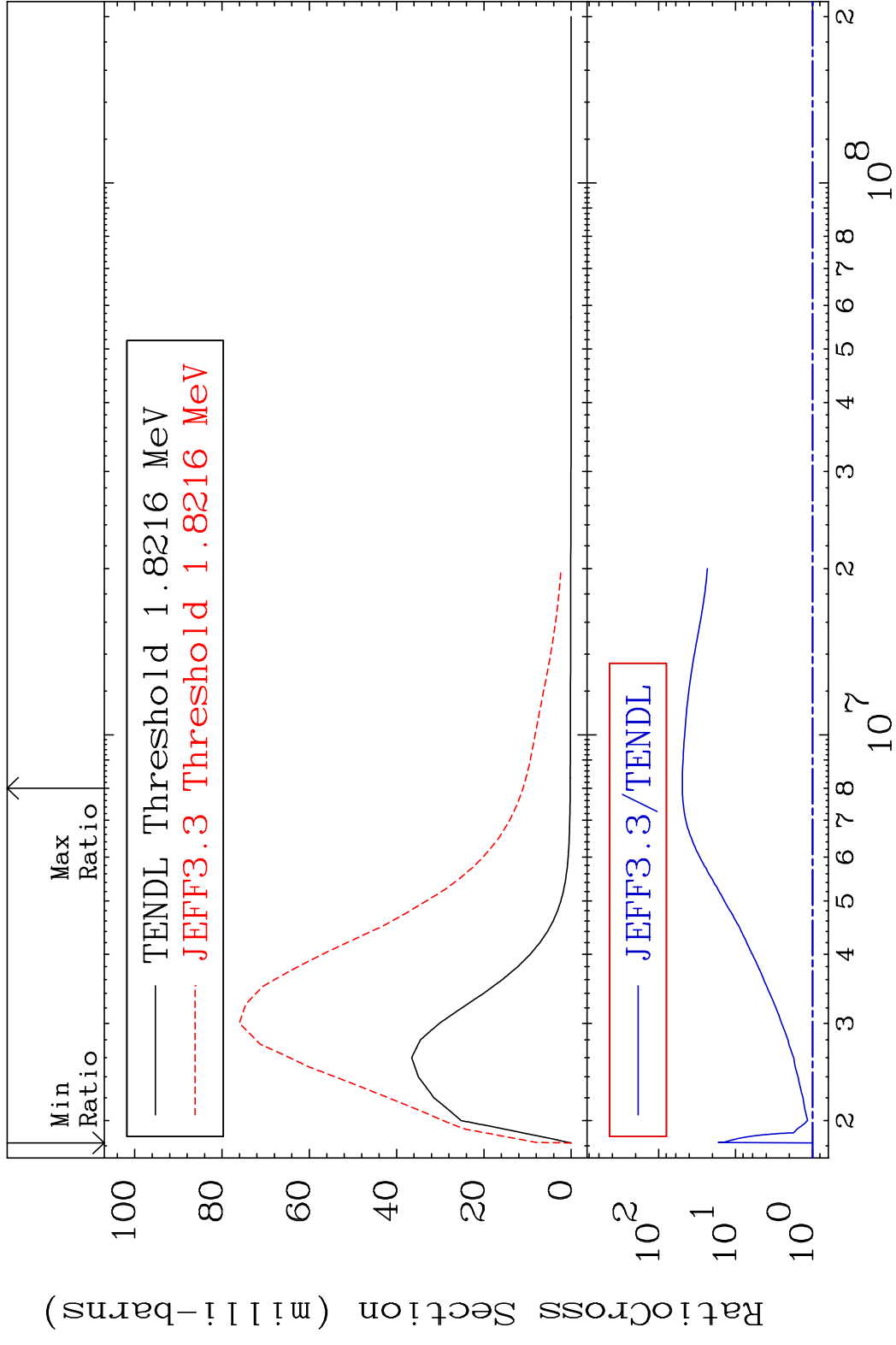


16 Incident Energy (eV) 58-Ce-141

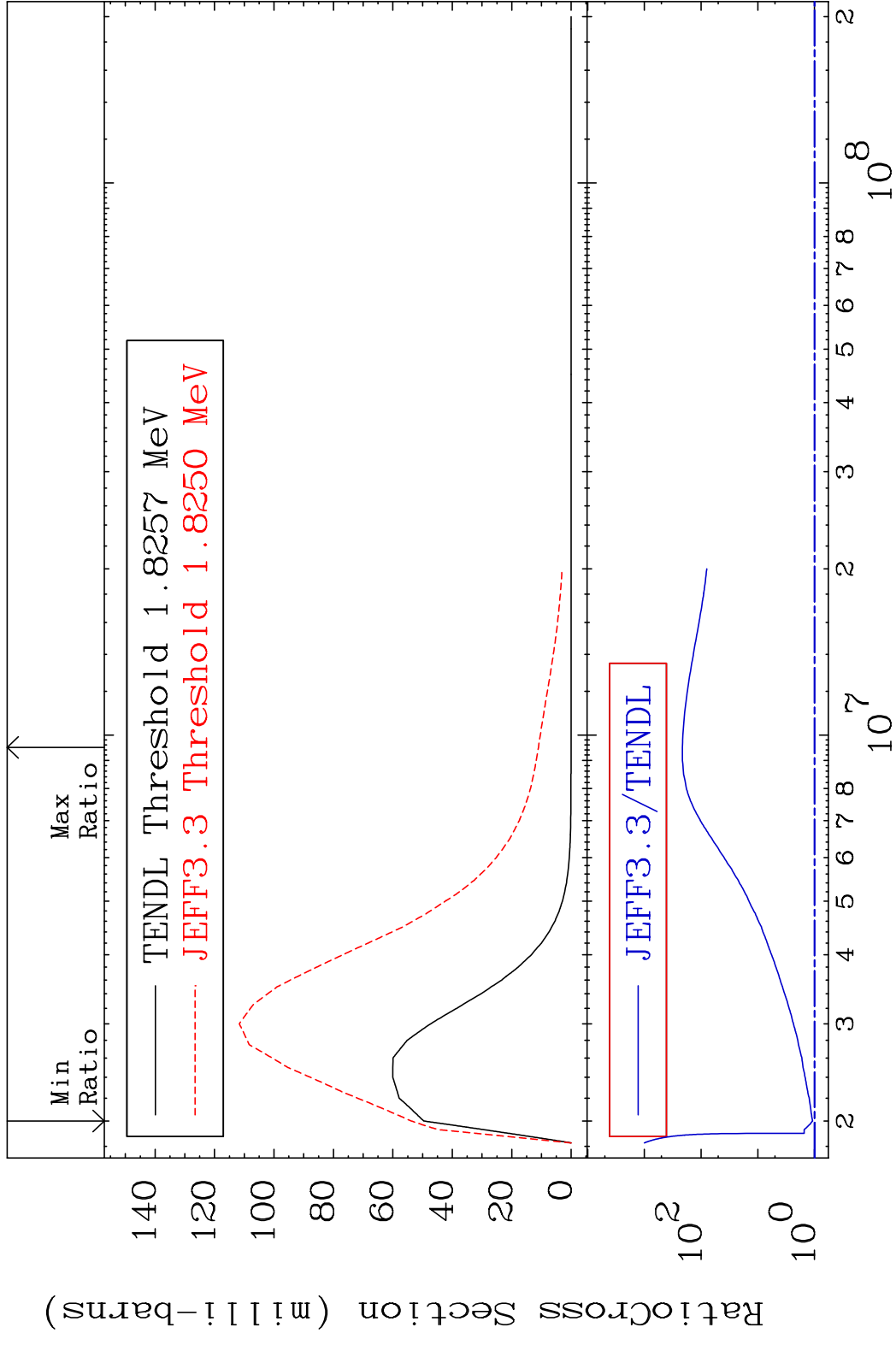
MAT 5840 MT= 60 (n, n') Level 58-Ce-141
 Cross Section -100.0 To 9999. %



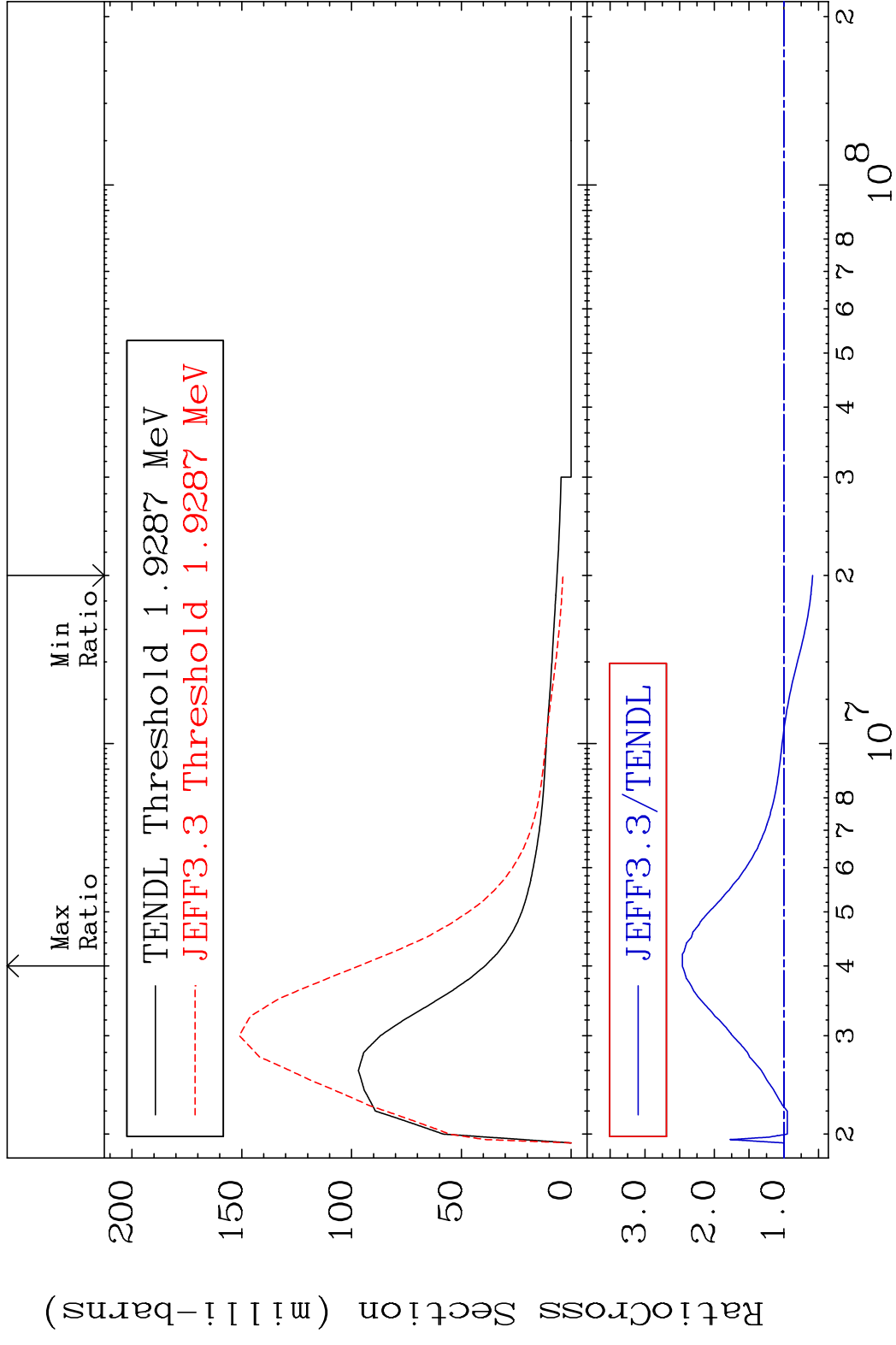
MAT 5840 MT= 61 (n,n') Level 58-Ce-141
 Cross Section 0.000 To 4825. %



MAT 5840 MT= 62 (n, n') Level 58-Ce-141
 Cross Section 8.398 To 9999. %

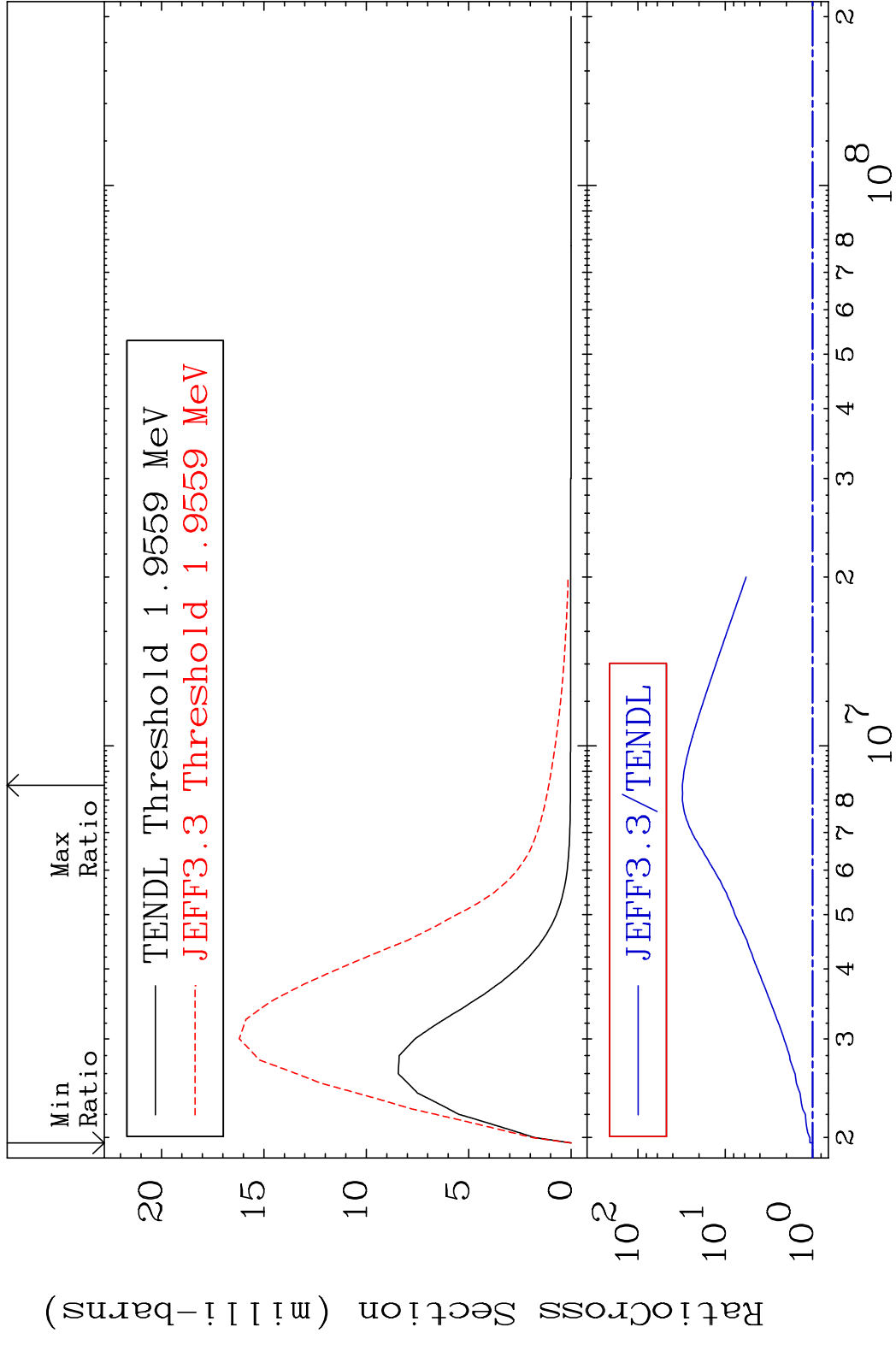


MAT 5840 MT= 63 (n, n') Level 58-Ce-141
 Cross Section -41.42 To 146.1 %

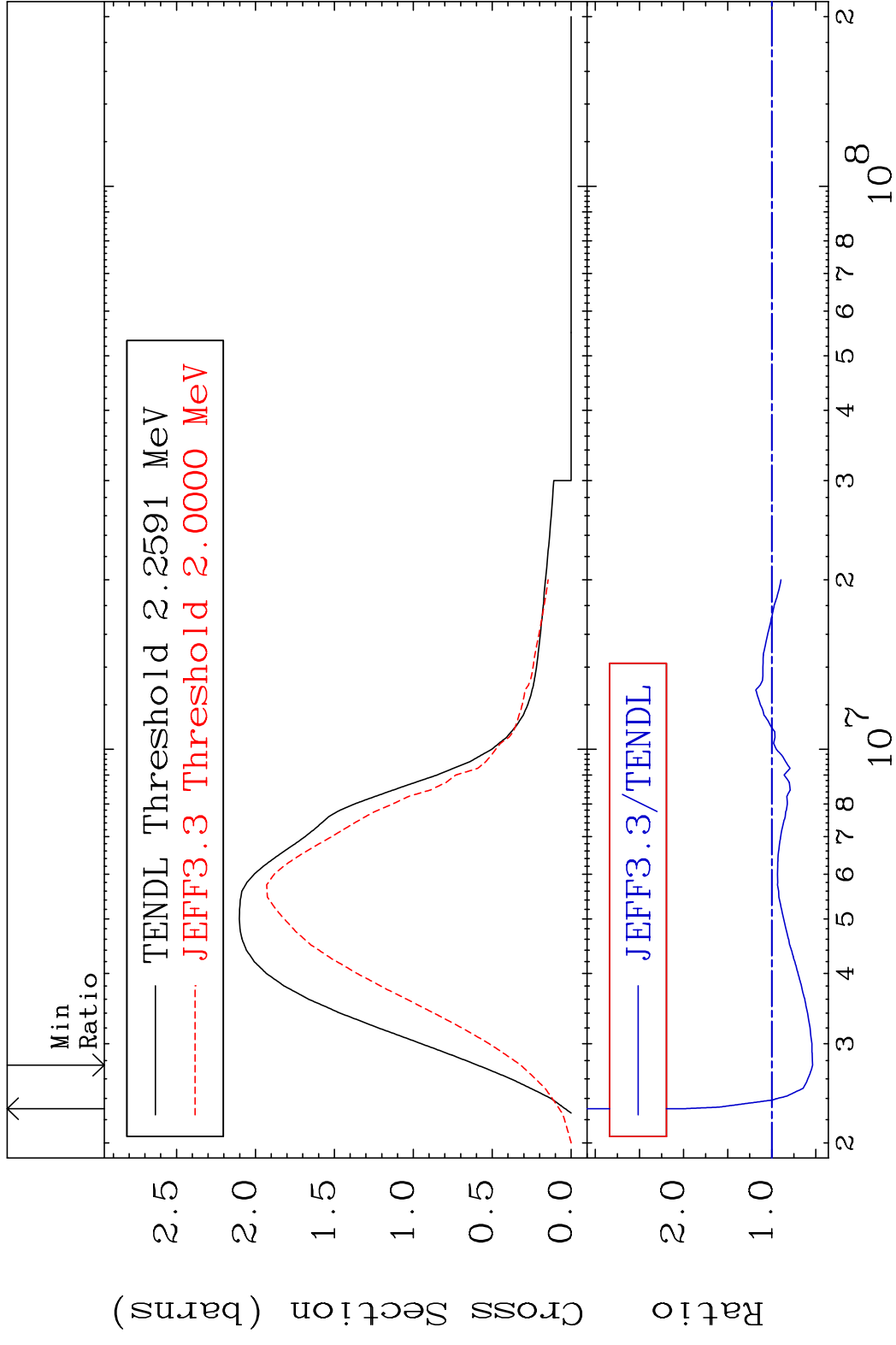


20 20 Incident Energy (eV) 58-Ce-141

MAT 5840 MT= 64 (n,n') Level 58-Ce-141
 Cross Section 0.000 To 3001. %



MAT 5840 (n,n') Continuum 58-Ce-141
 Cross Section -46.21 To 101.4 %

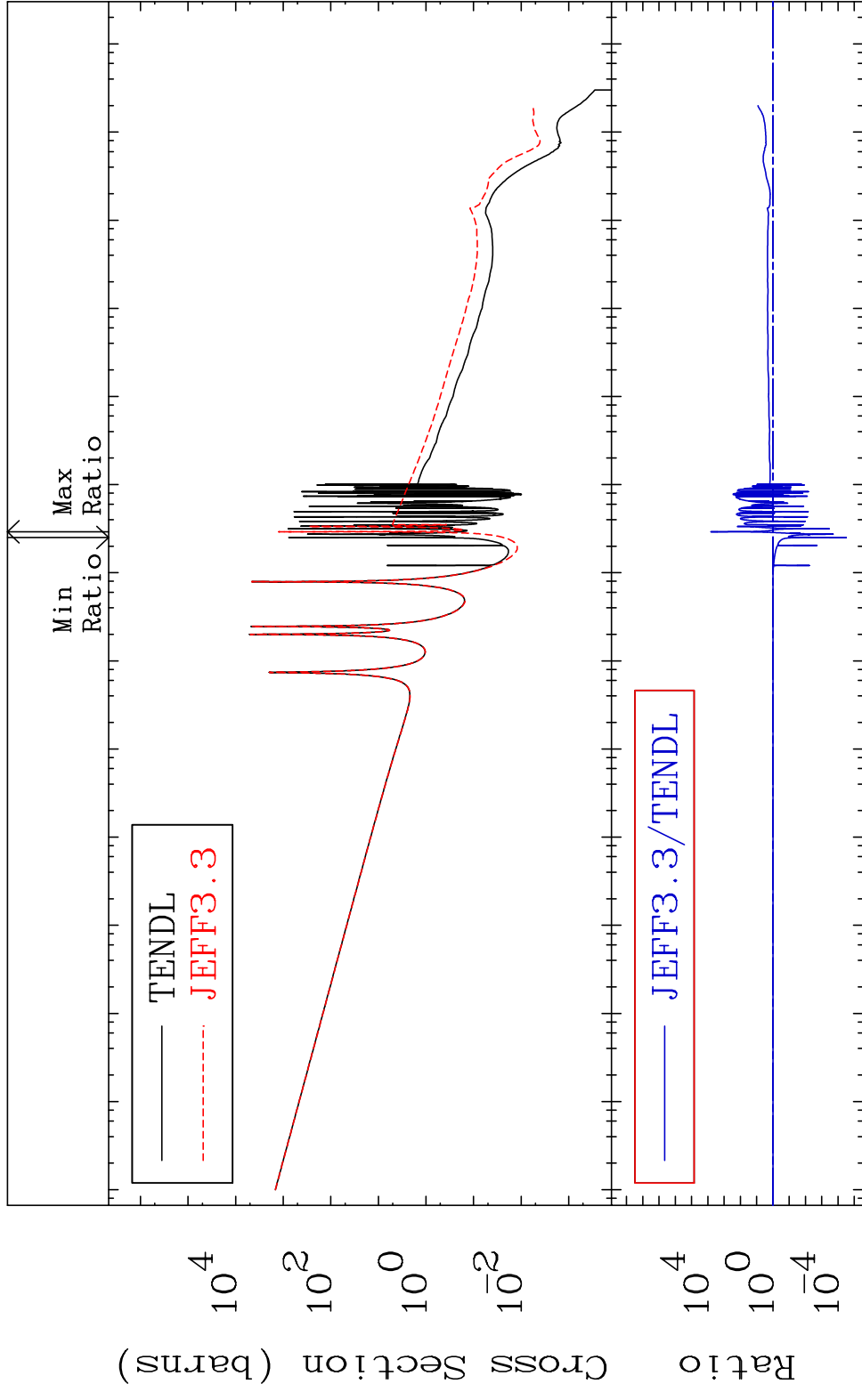


MAT 5840

58-Ce-141

(n, γ)

Cross Section -100.0 To 9999. %

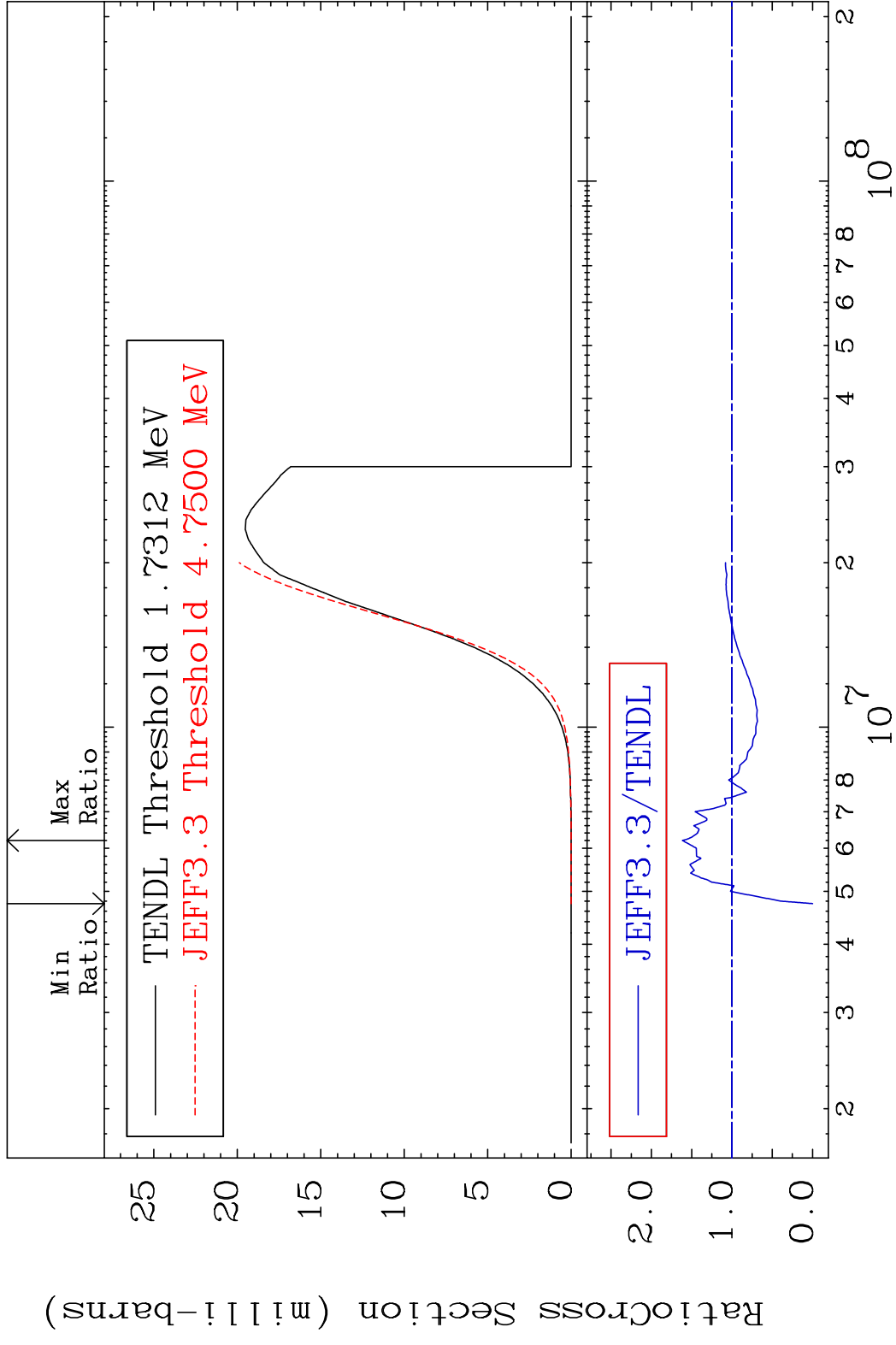


23

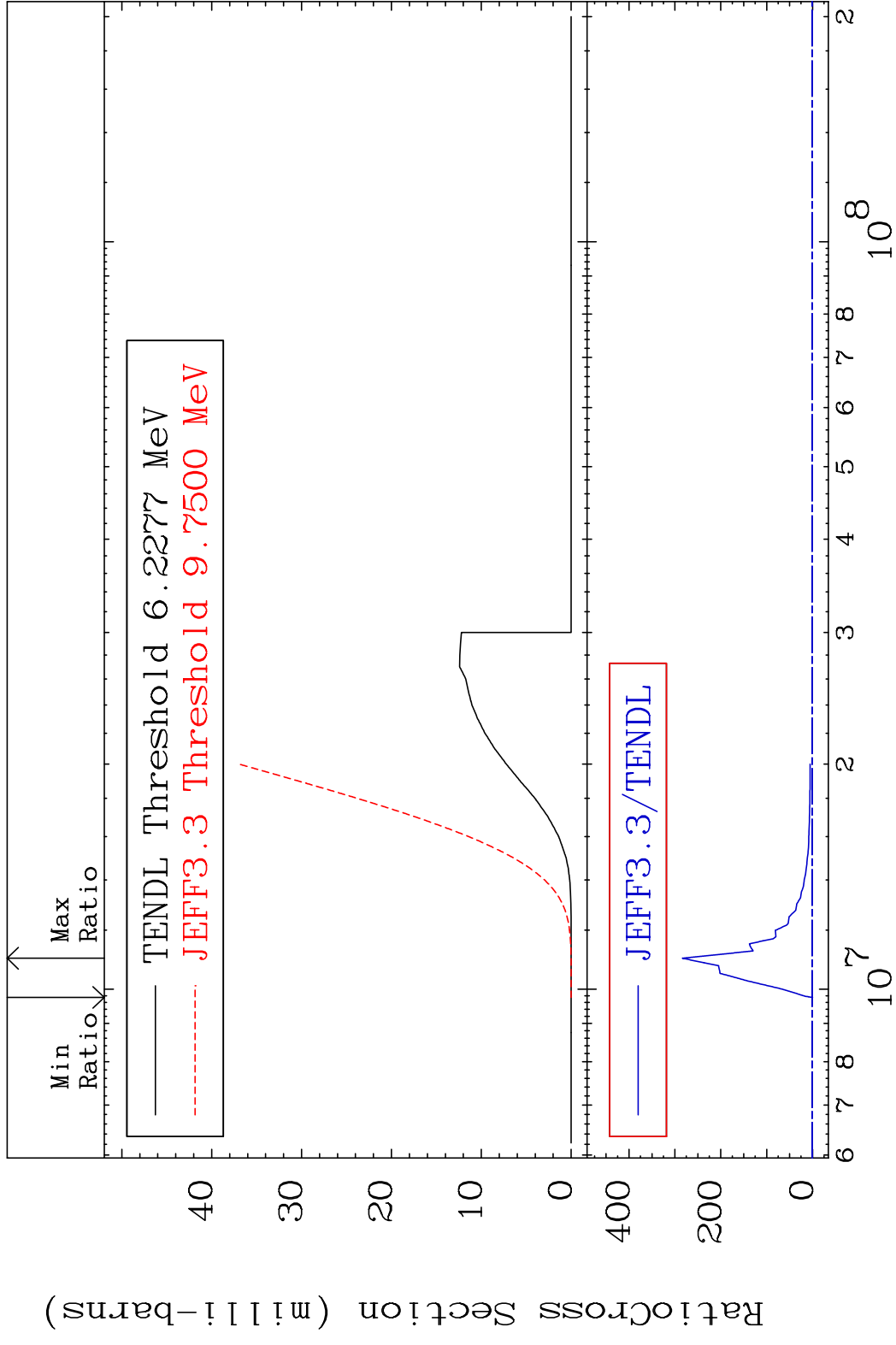
Incident Energy (eV)

58-Ce-141

MAT 5840 (n,p) 58-Ce-141
 Cross Section -100.0 To 61.57 %



MAT 5840 (n,d) 58-Ce-141
 Cross Section -100.0 To 9999. %



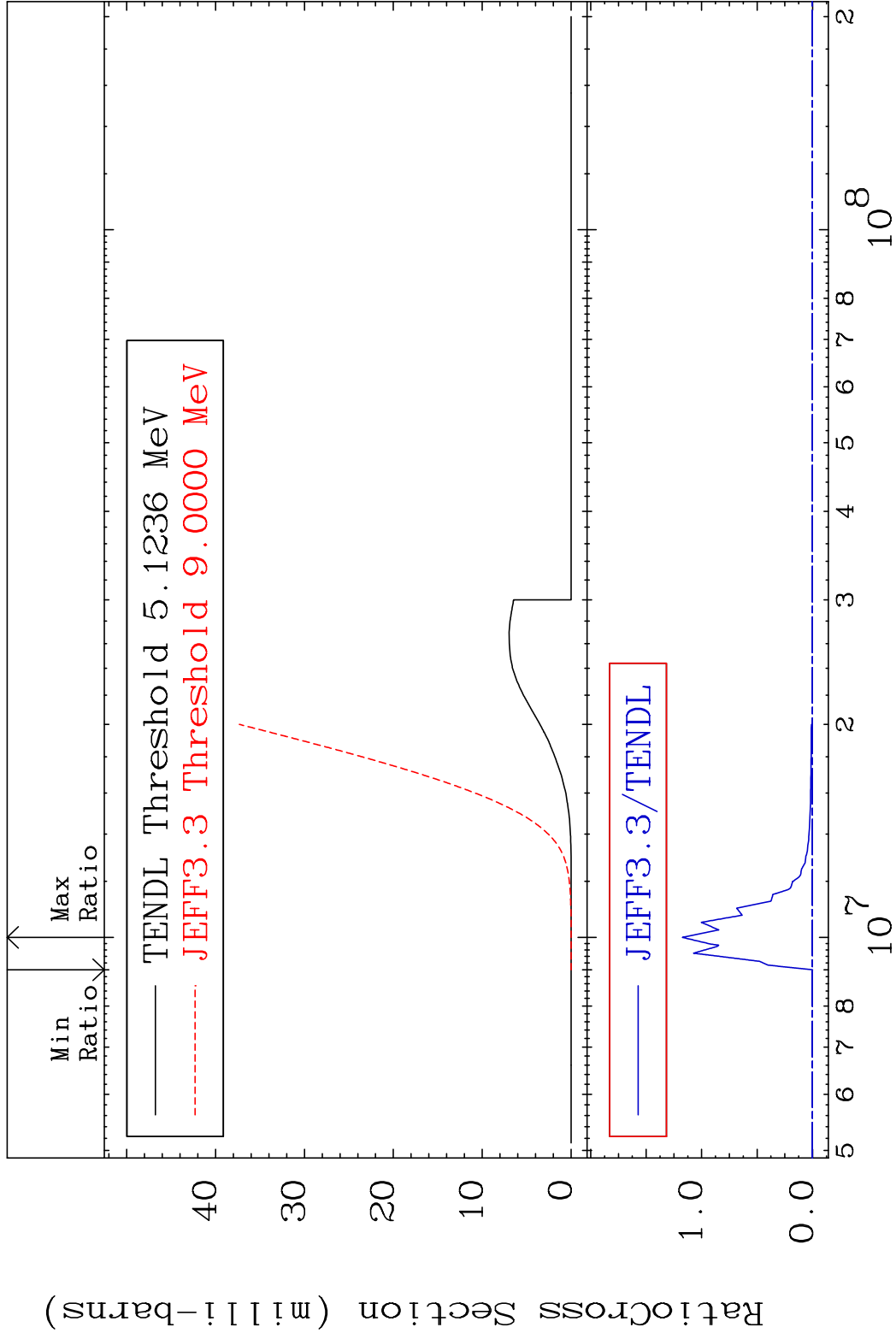
25 58-Ce-141

MAT 5840

(n, t)

58-Ce-141

Cross Section -100.0 To 9999. %



26

Incident Energy (eV)

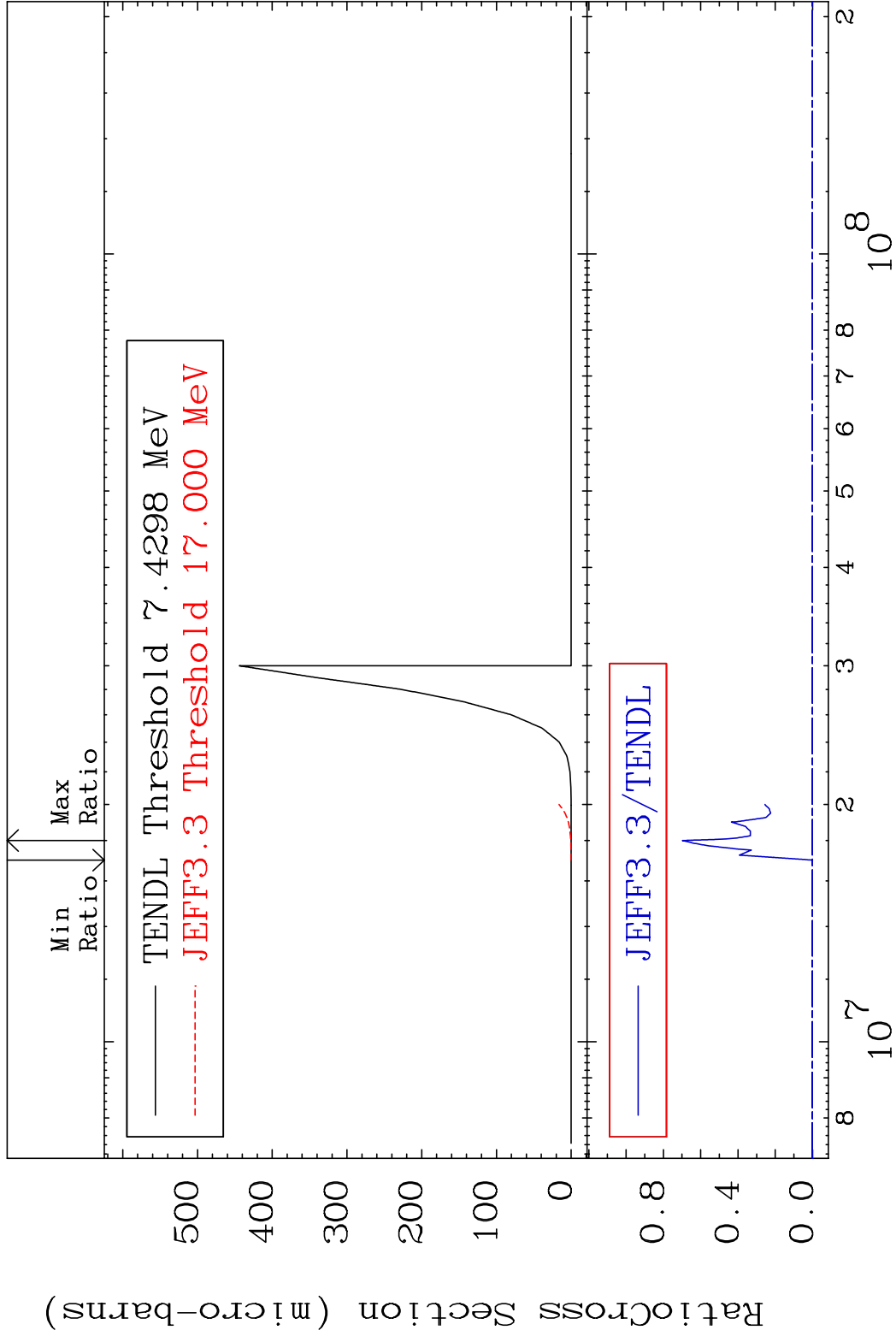
58-Ce-141

MAT 5840

(n, He-3)

58-Ce-141

Cross Section -100.0 To 9999. %

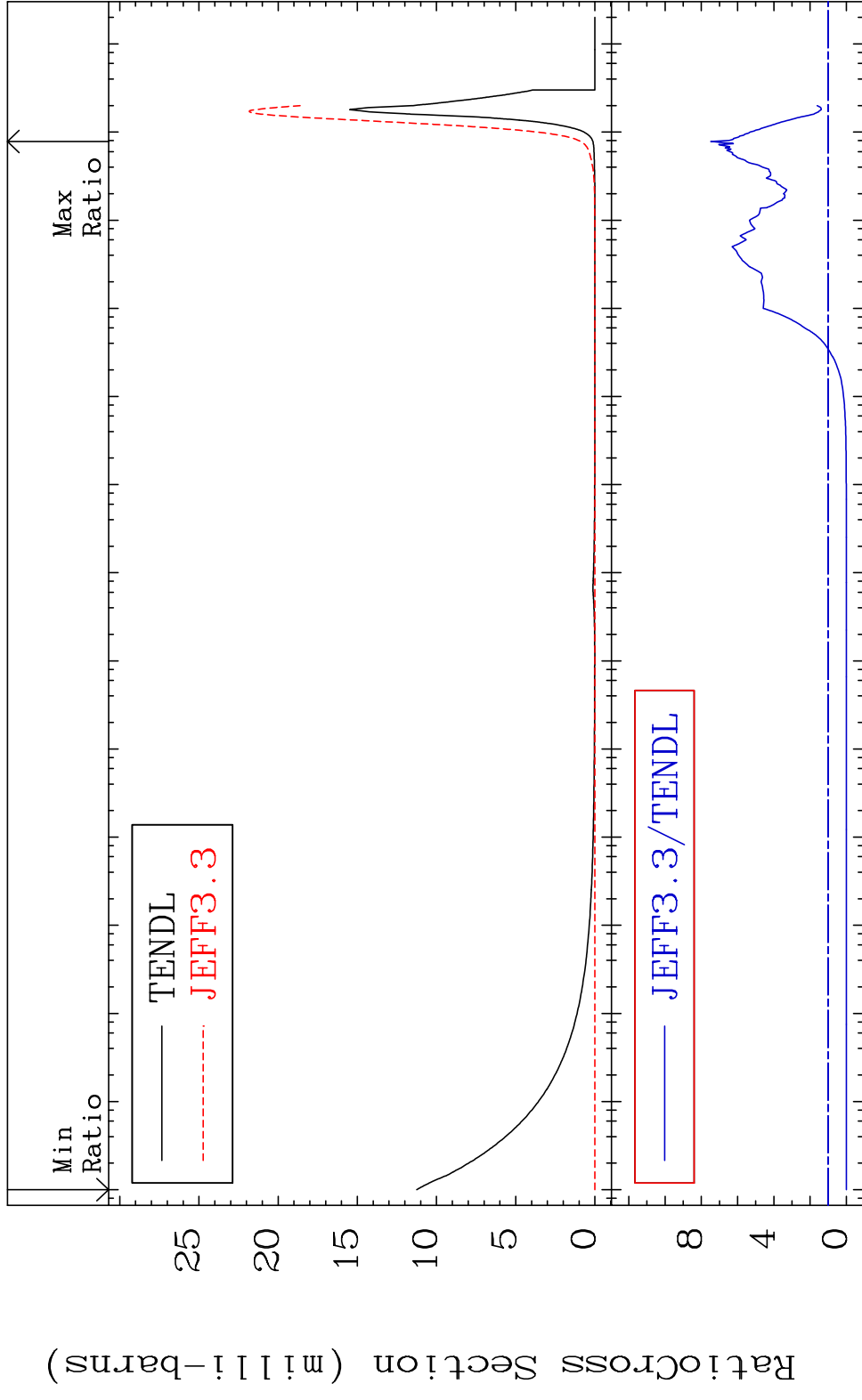


MAT 5840

(n, α)

58-Ce-141

Cross Section -100.0 To 648.2 %



28

Incident Energy (eV)

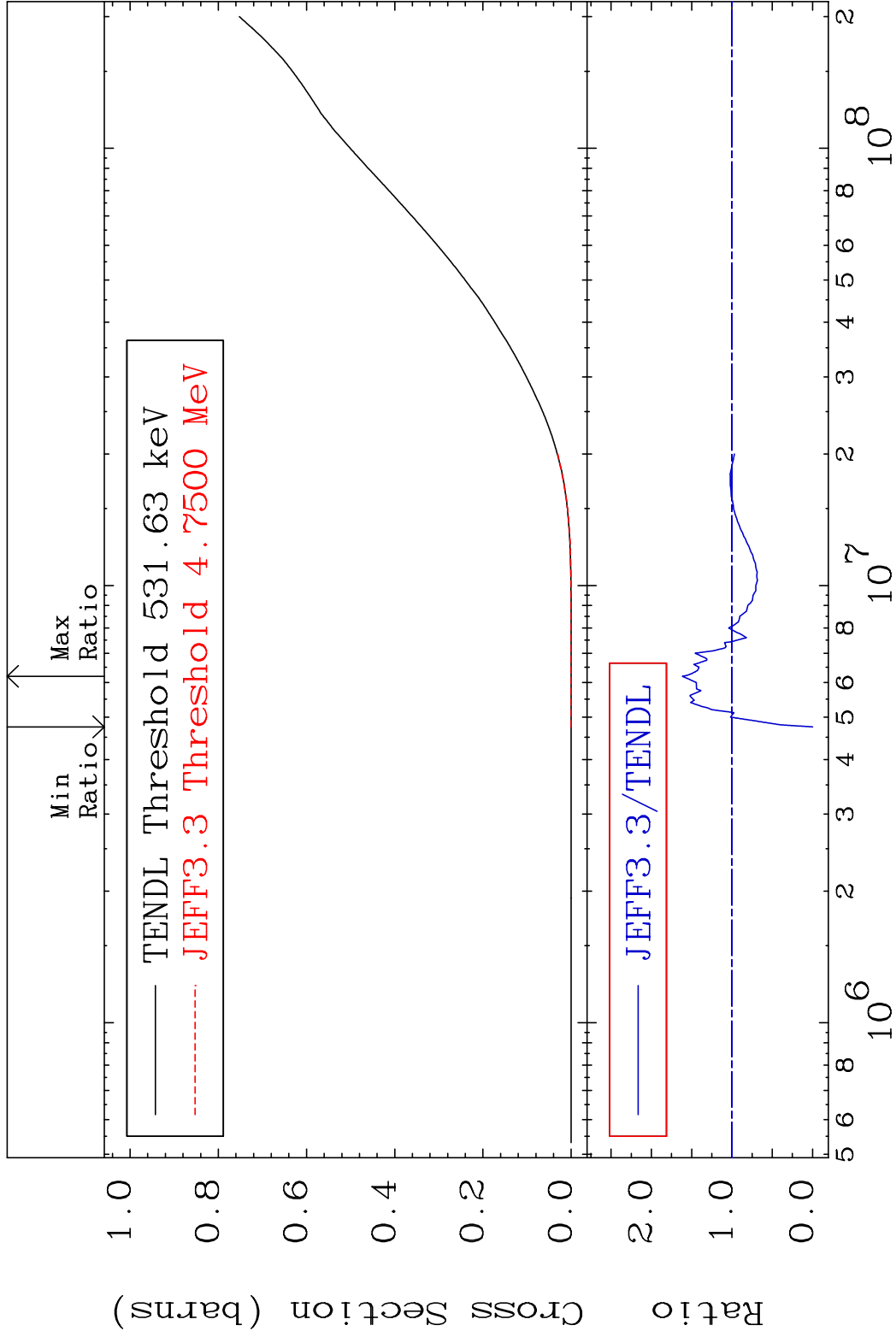
58-Ce-141

MAT 5840

Hydrogen Production

58-Ce-141

Cross Section -100.0 To 61.57 %



29

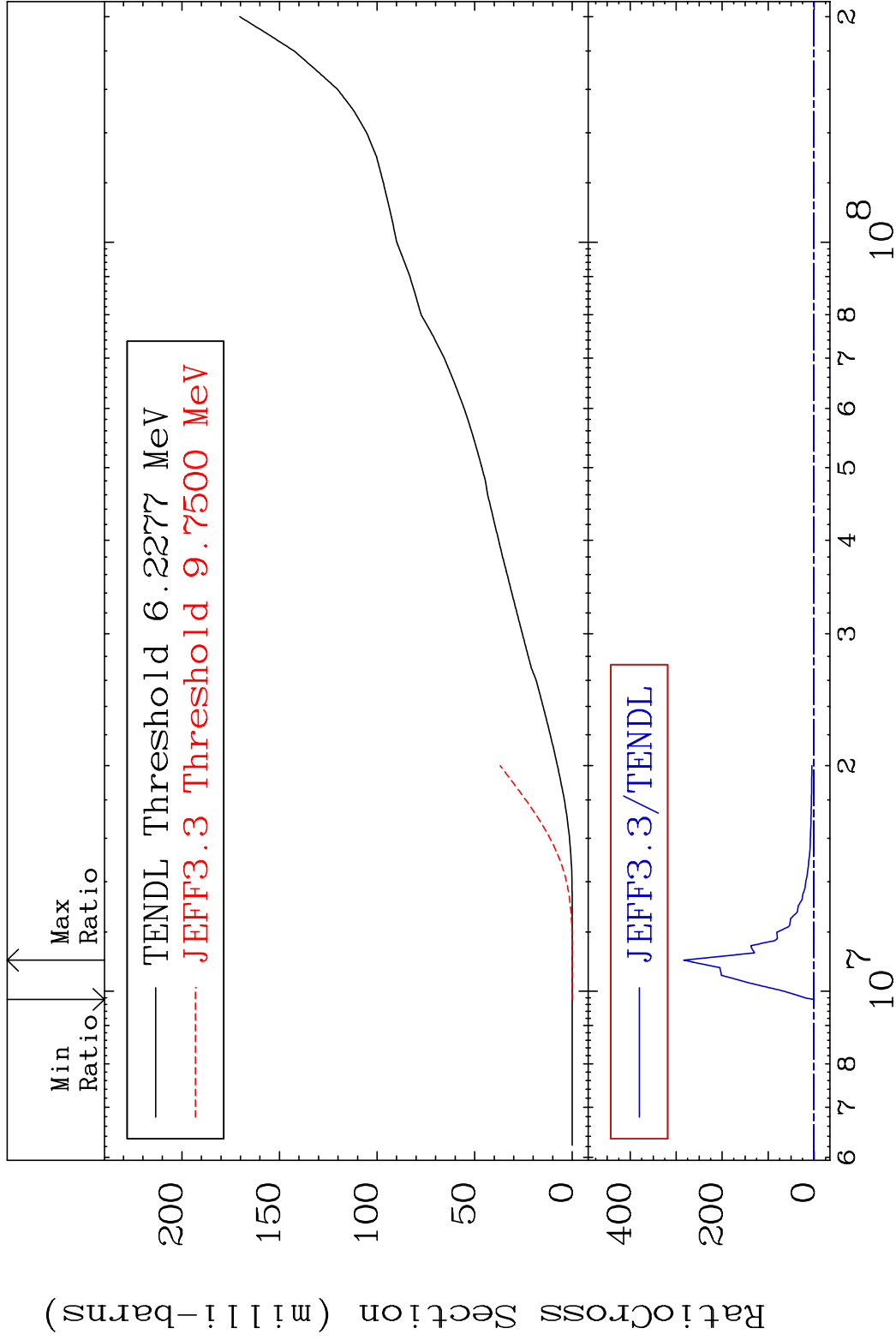
Incident Energy (eV)

58-Ce-141

MAT 5840

Deuterium Production 58-Ce-141

Cross Section -100.0 To 9999. %



30

Incident Energy (eV)

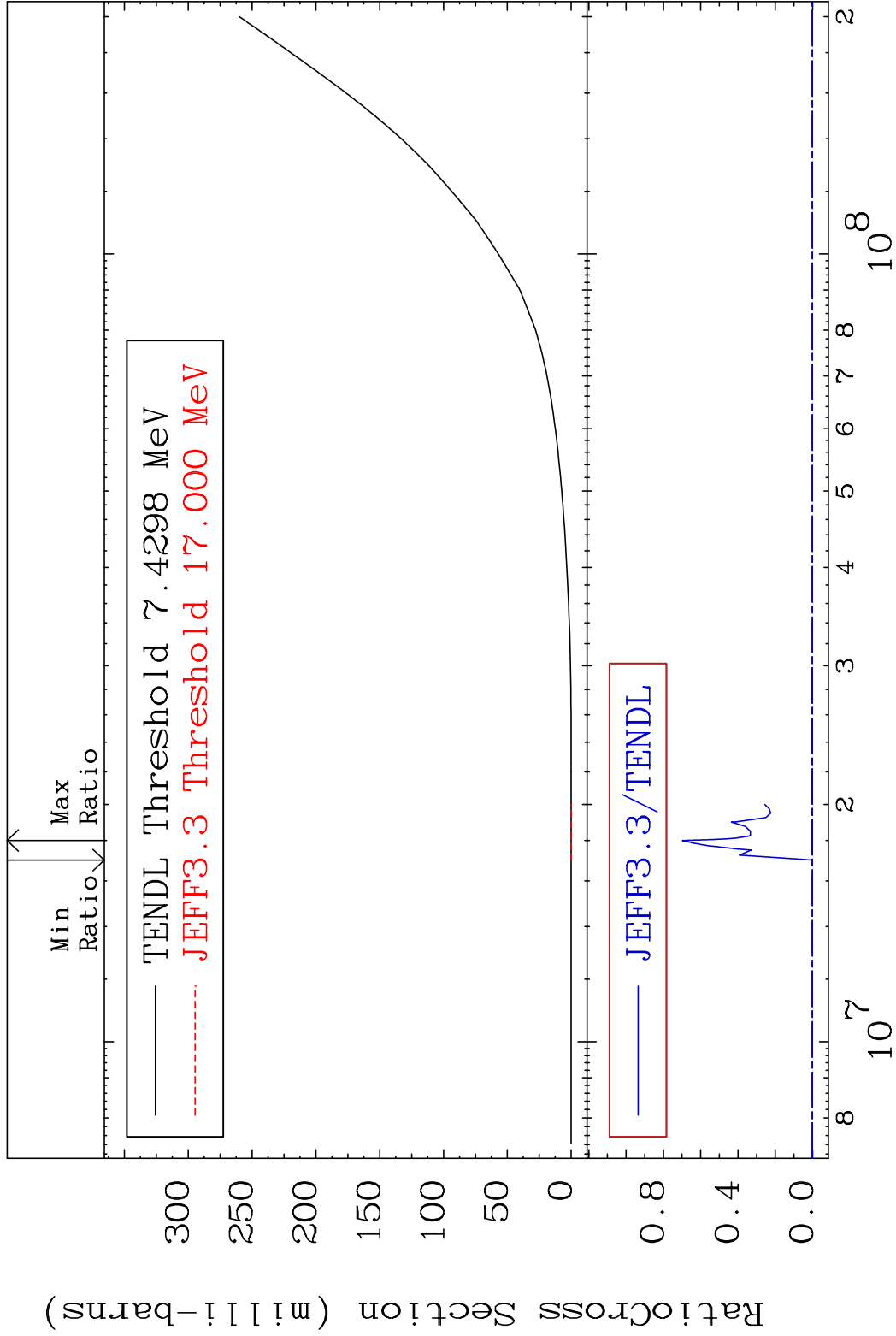
58-Ce-141

MAT 5840

He-3 Production

58-Ce-141

Cross Section -100.0 To 9999. %



32

Incident Energy (eV)

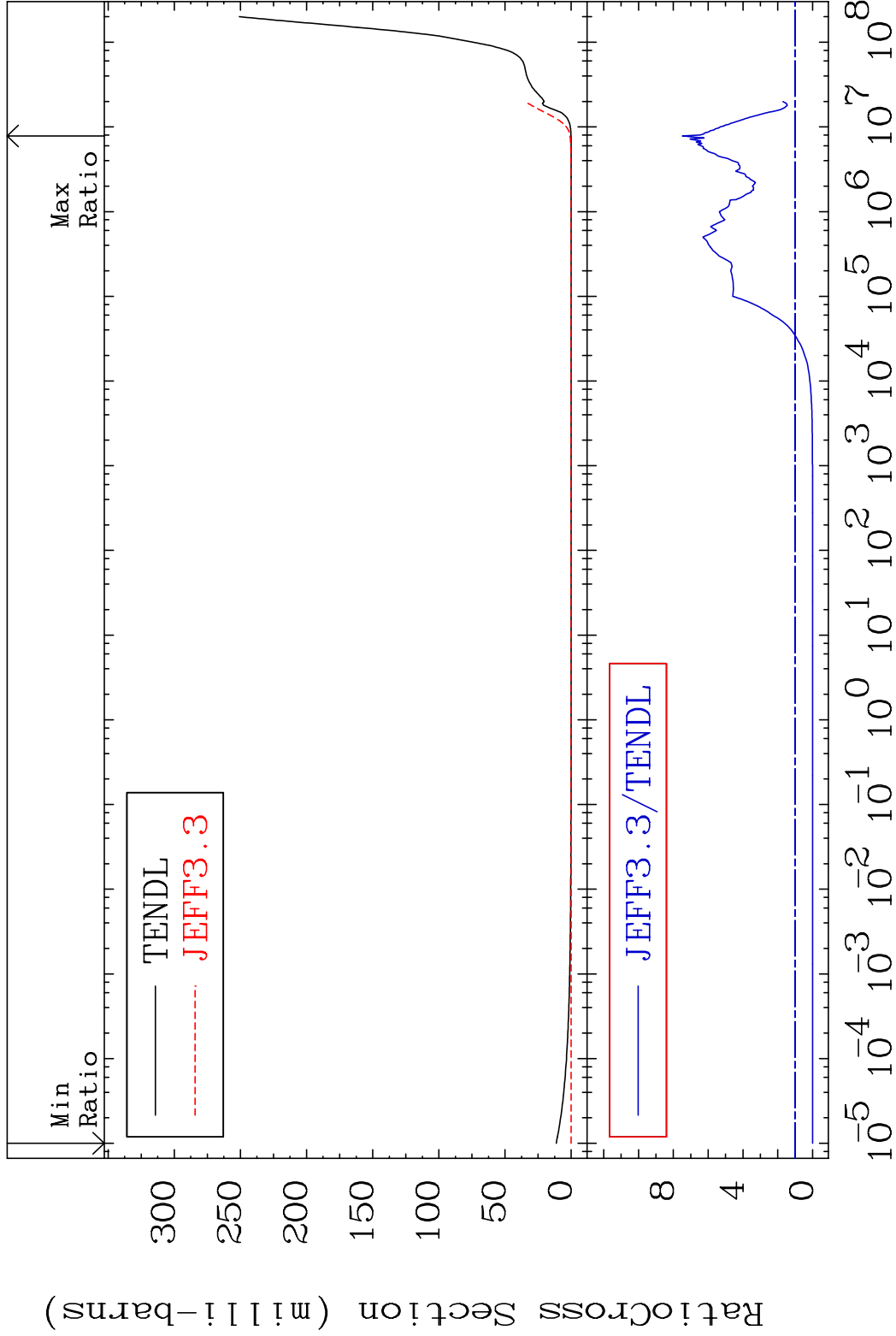
58-Ce-141

MAT 5840

He-4 Production

58-Ce-141

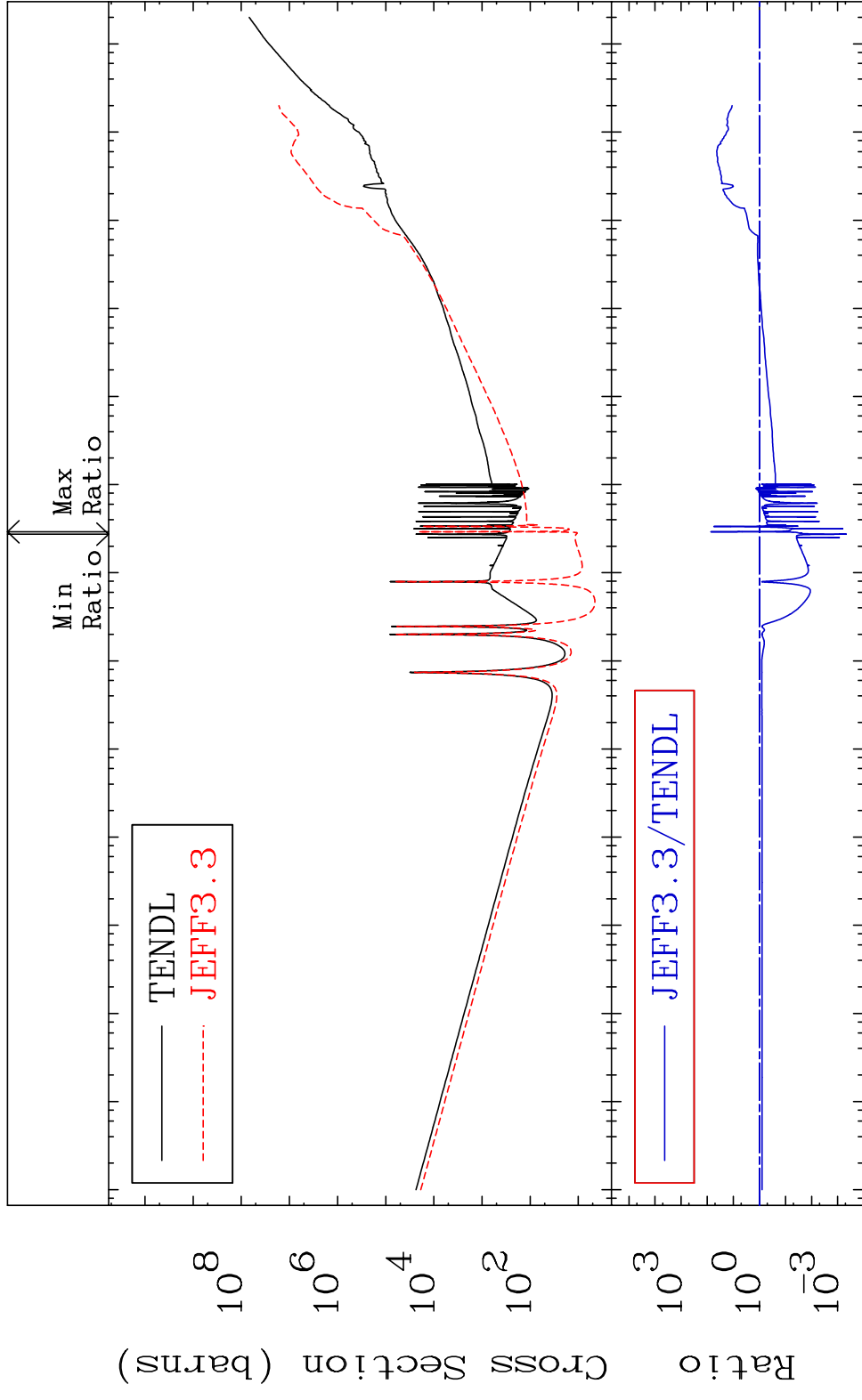
Cross Section -100.0 To 648.1 %



33

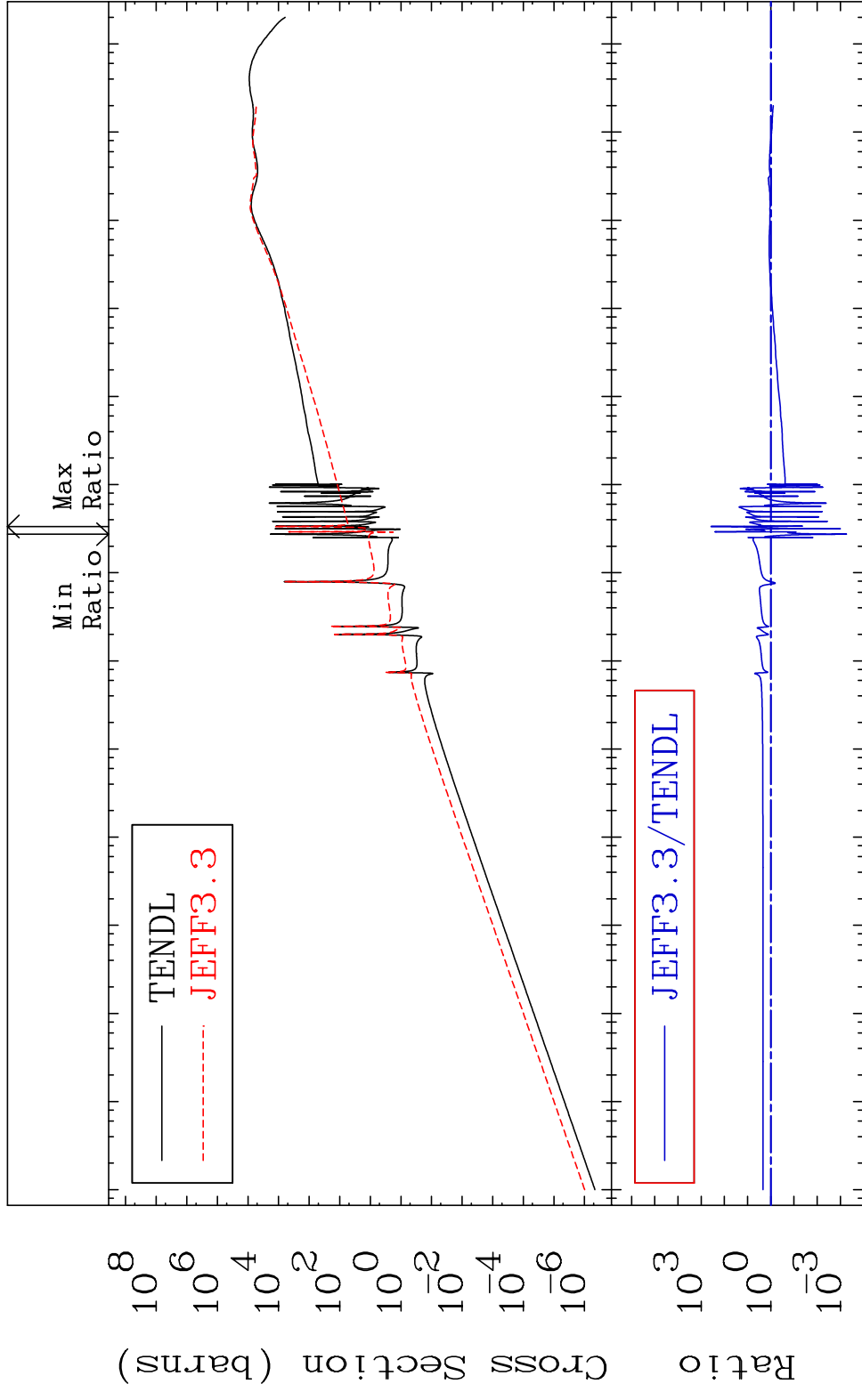
58-Ce-141

MAT 5840 Kerma total (eV-barns) 58-Ce-141
 Cross Section -99.95 To 7243. %

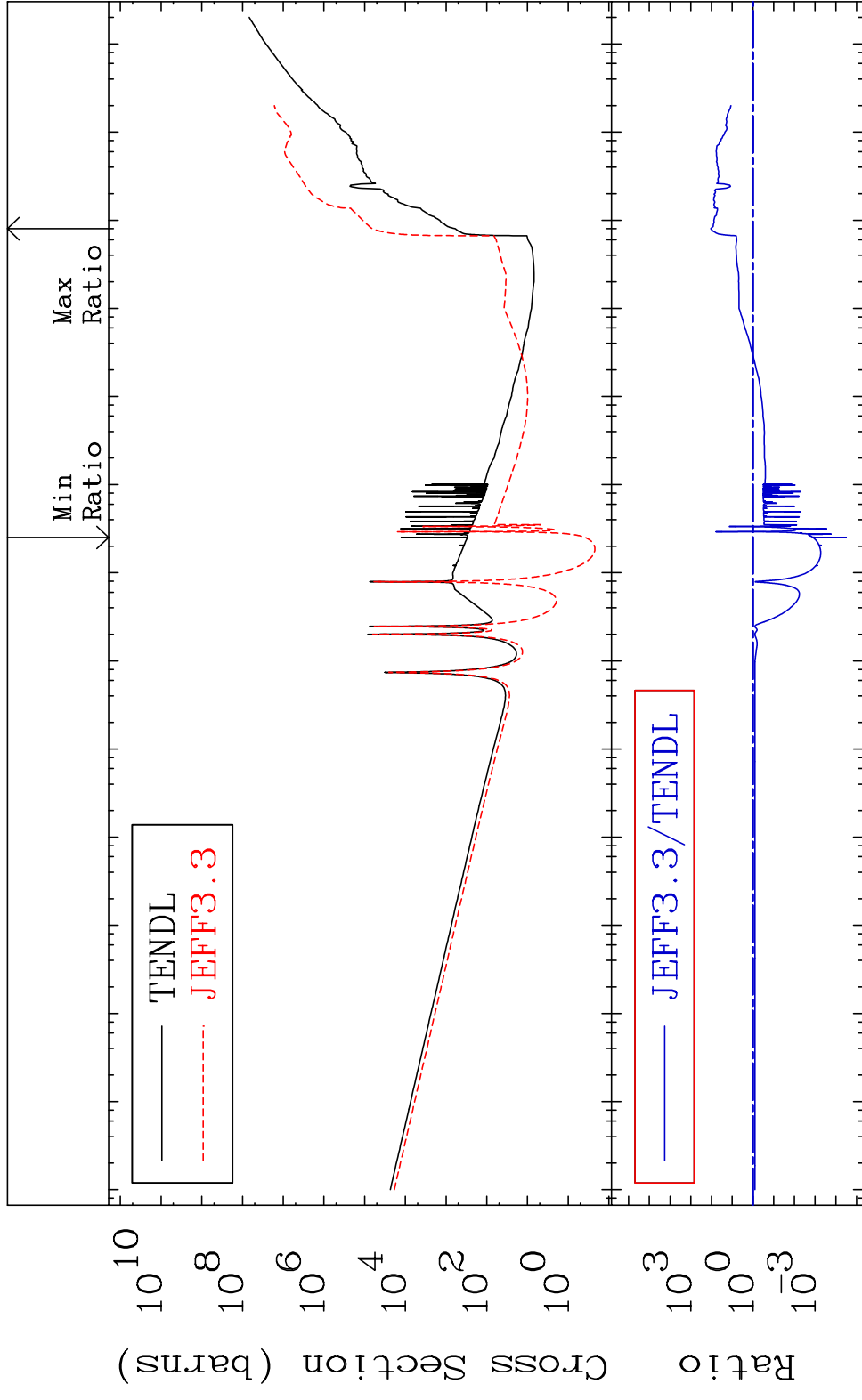


MAT 5840

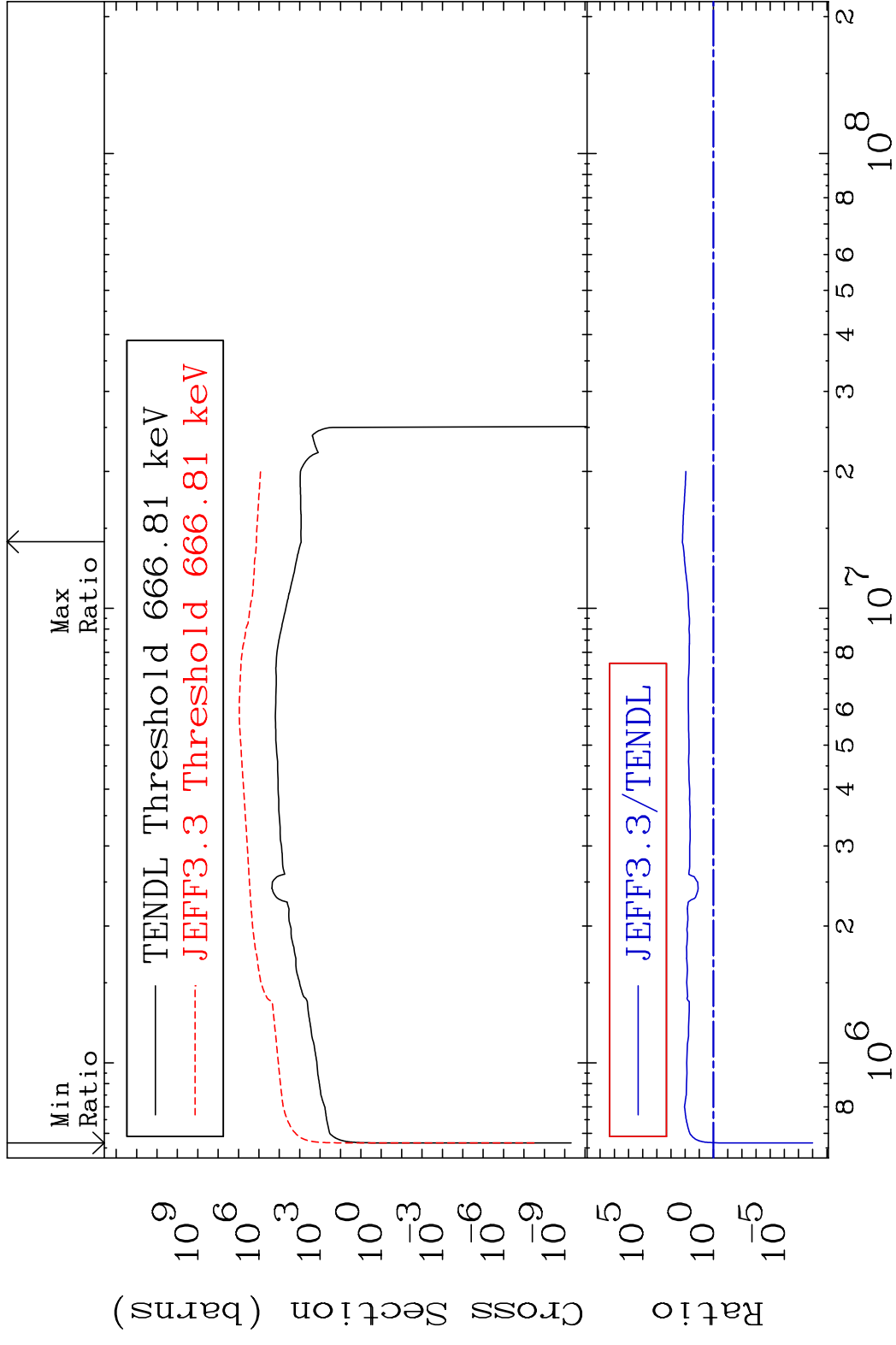
Kerma elastic Cross Section -99.94 To 9999. % 58-Ce-141



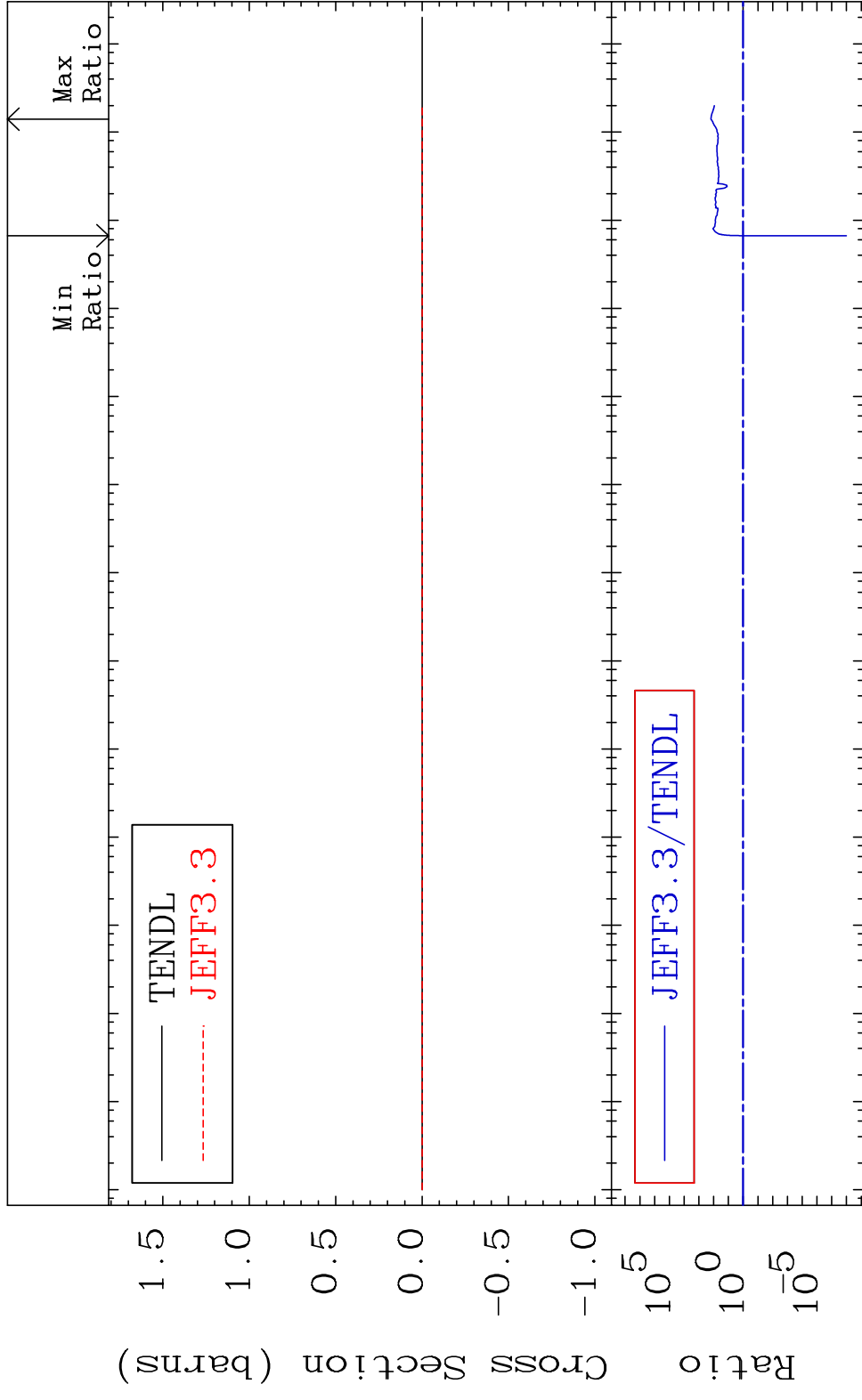
MAT 5840 Kerma non-elastic (all but mt2) 58-Ce-141
 Cross Section -100.0 To 9999. %



MAT 5840 Kerma inelastic (mt51-91) 58-Ce-141
 Cross Section -100.0 To 9999. %



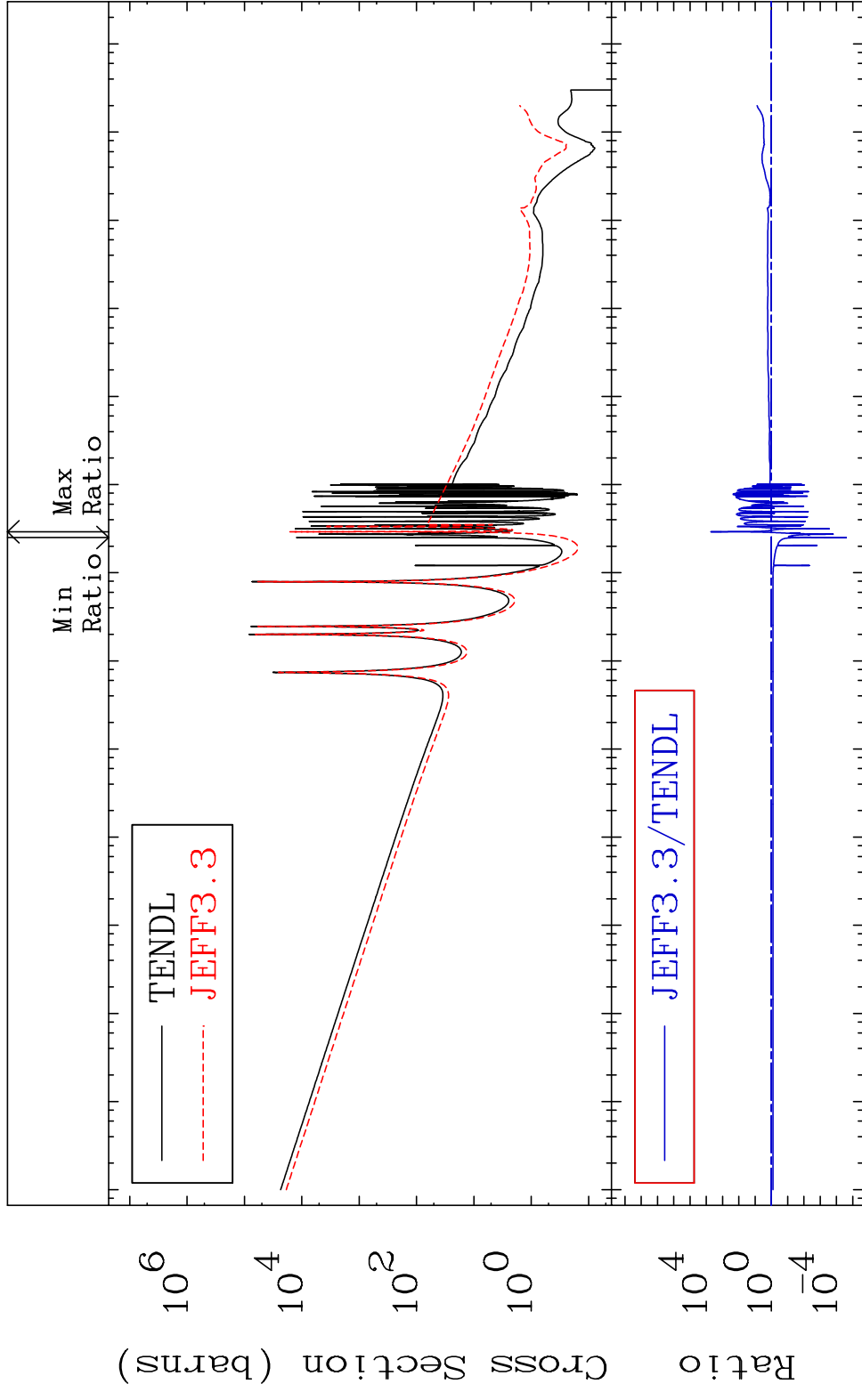
MAT 5840 Kerma fission (mt18 or mt19-20-21-38) 58-Ce-141
 Cross Section -100.0 To 9999. %



MAT 5840

Kerma capture (mt102) 58-Ce-141

Cross Section -100.0 To 9999. %



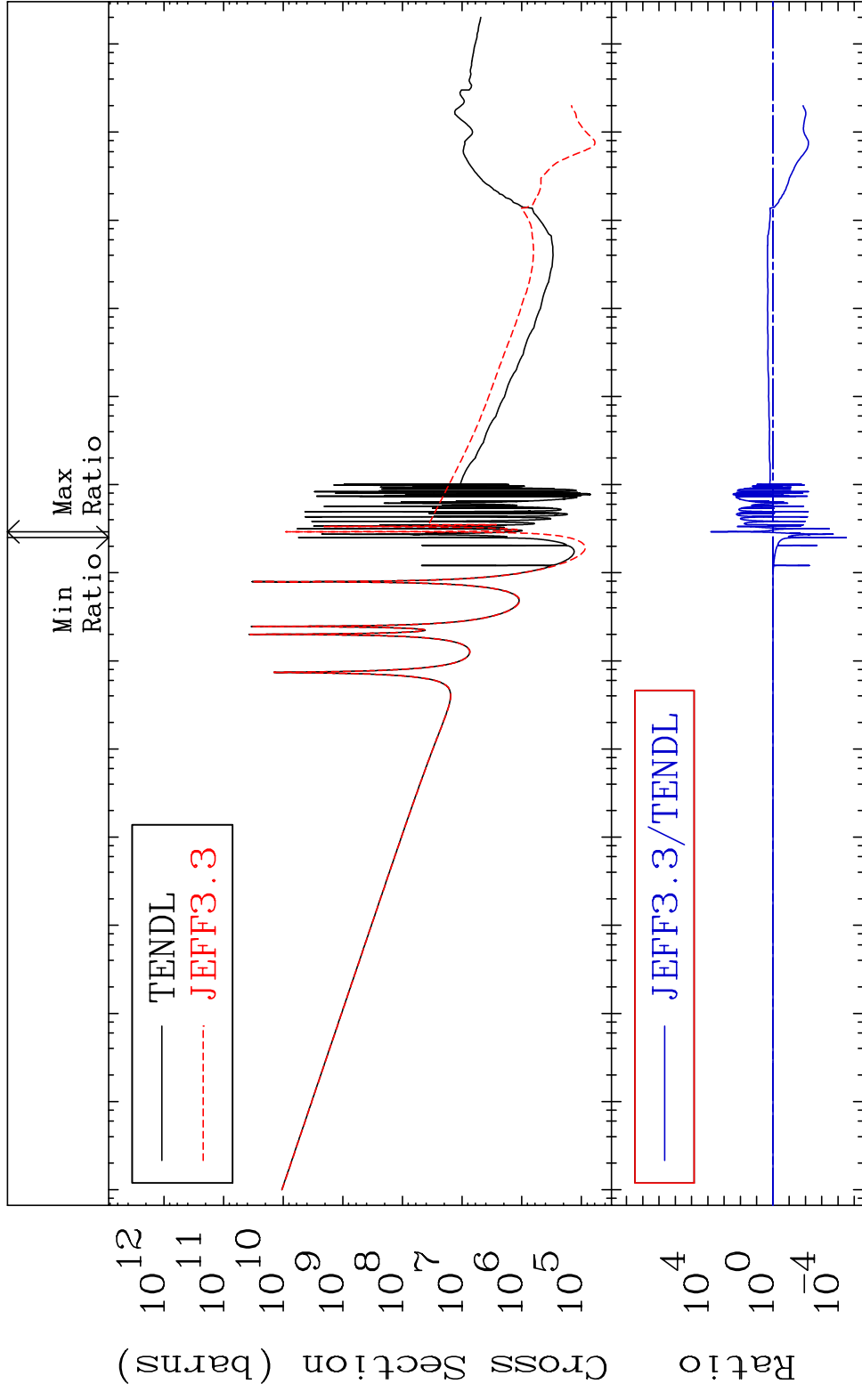
39

Incident Energy (eV)

58-Ce-141

MAT 5840

Total photon (eV-barns) 58-Ce-141
Cross Section -100.0 To 9999. %

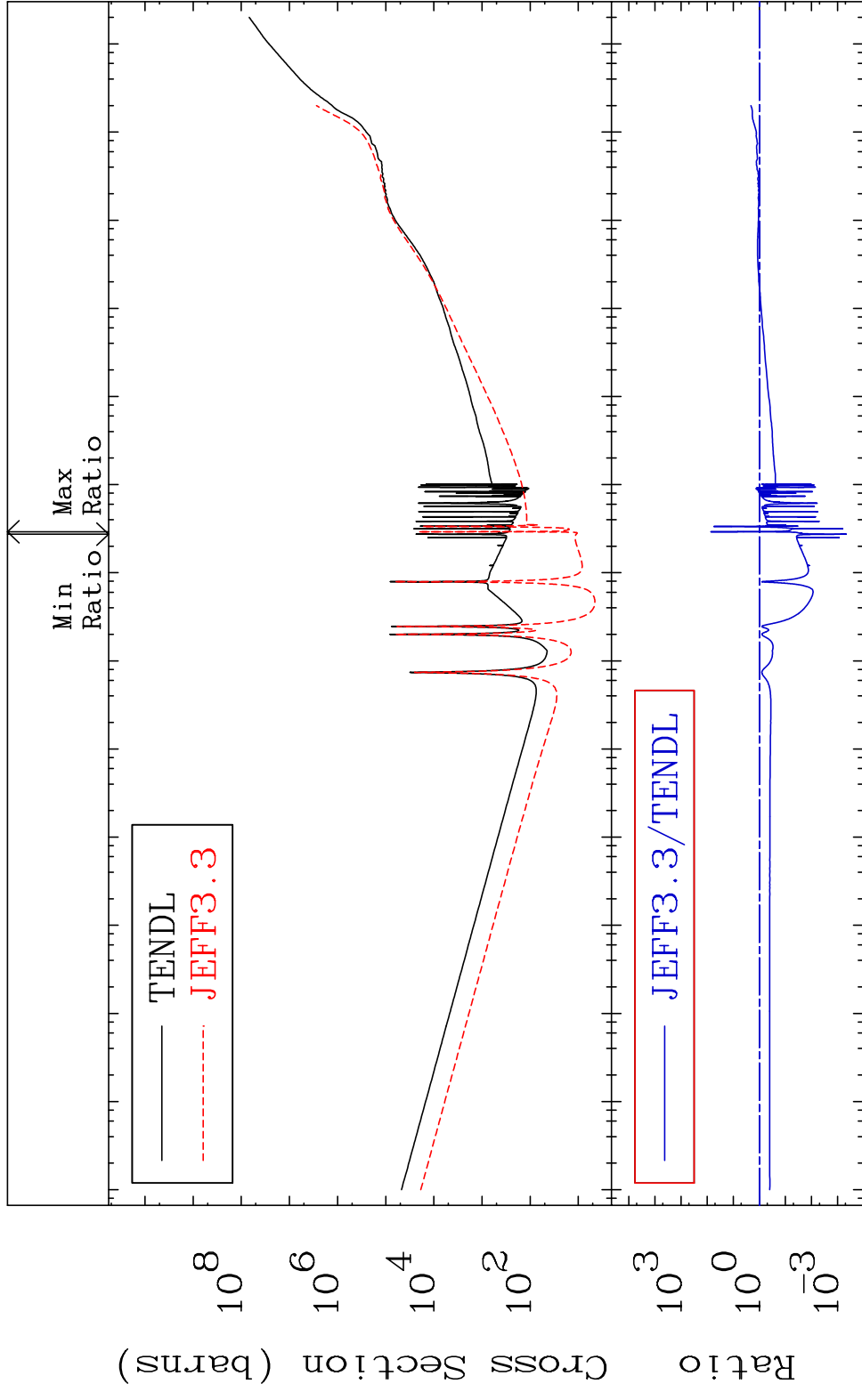


40

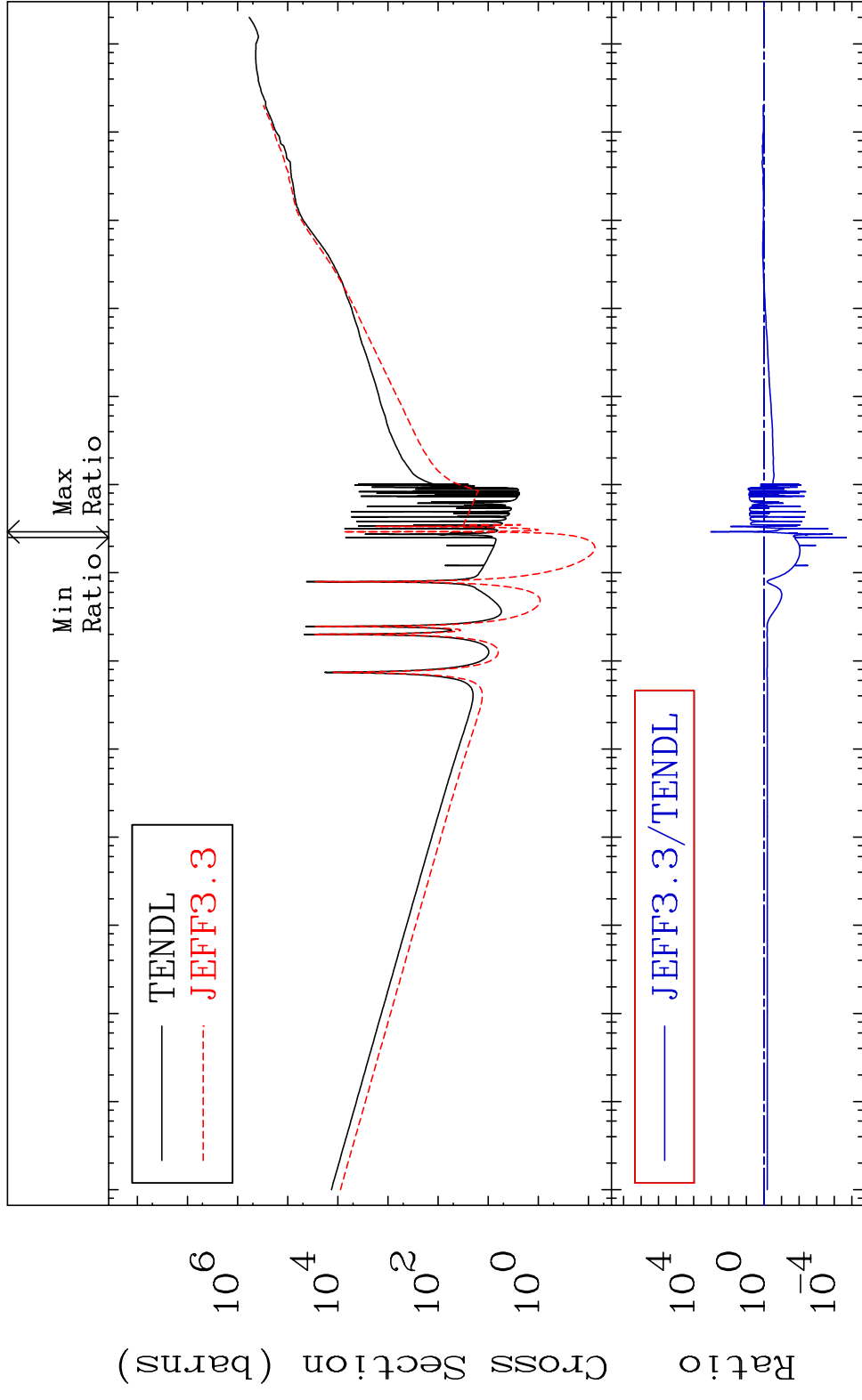
Incident Energy (eV)

58-Ce-141

MAT 5840 Total kinematic kerma (high limit) 58-Ce-141
 Cross Section -99.95 To 7184. %



MAT 5840 Dpa total (eV-barns) 58-Ce-141
 Cross Section -100.0 To 9999. %

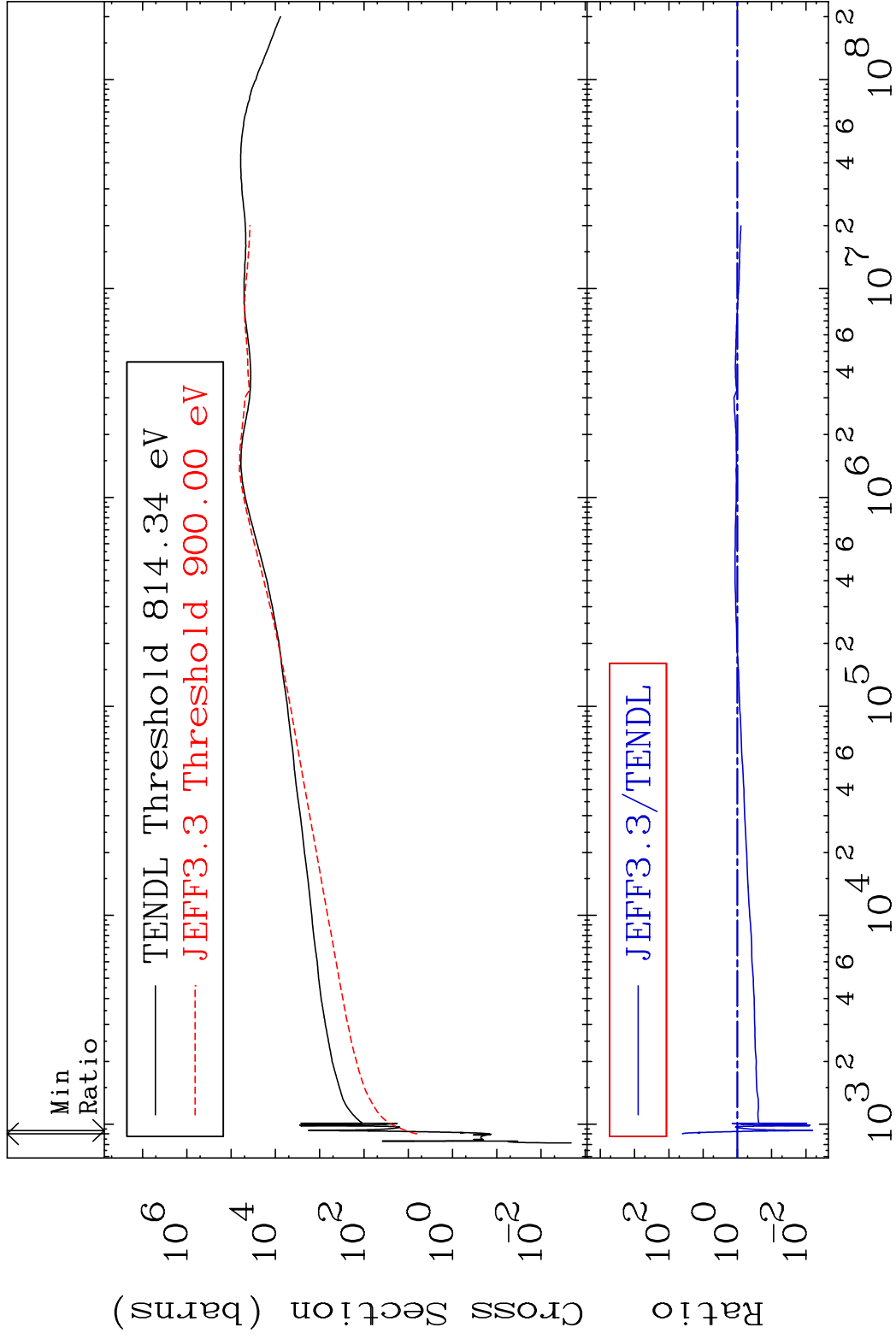


MAT 5840

Dpa elastic (mt2)

58-Ce-141

Cross Section -99.36 To 3942. %

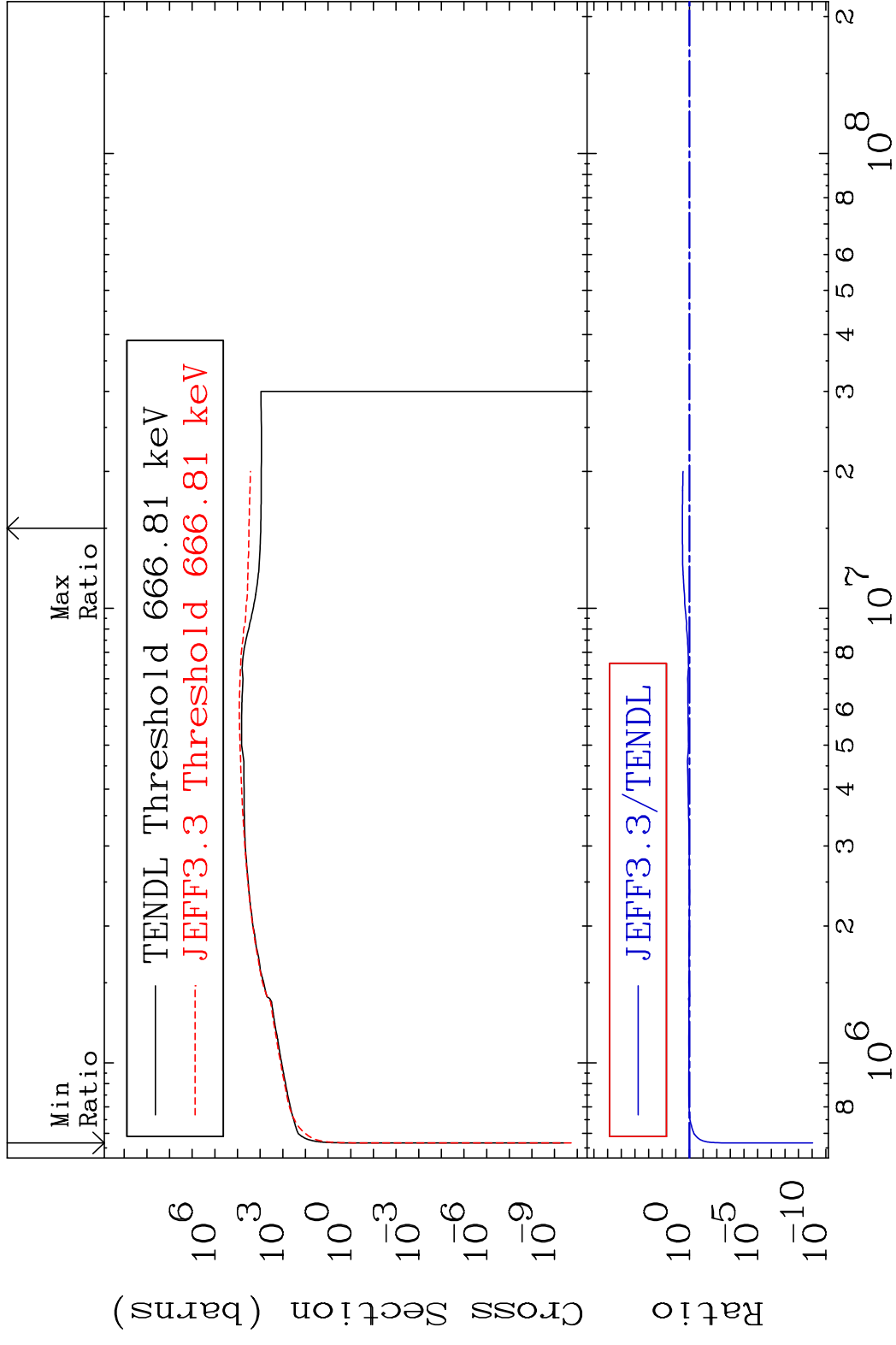


43

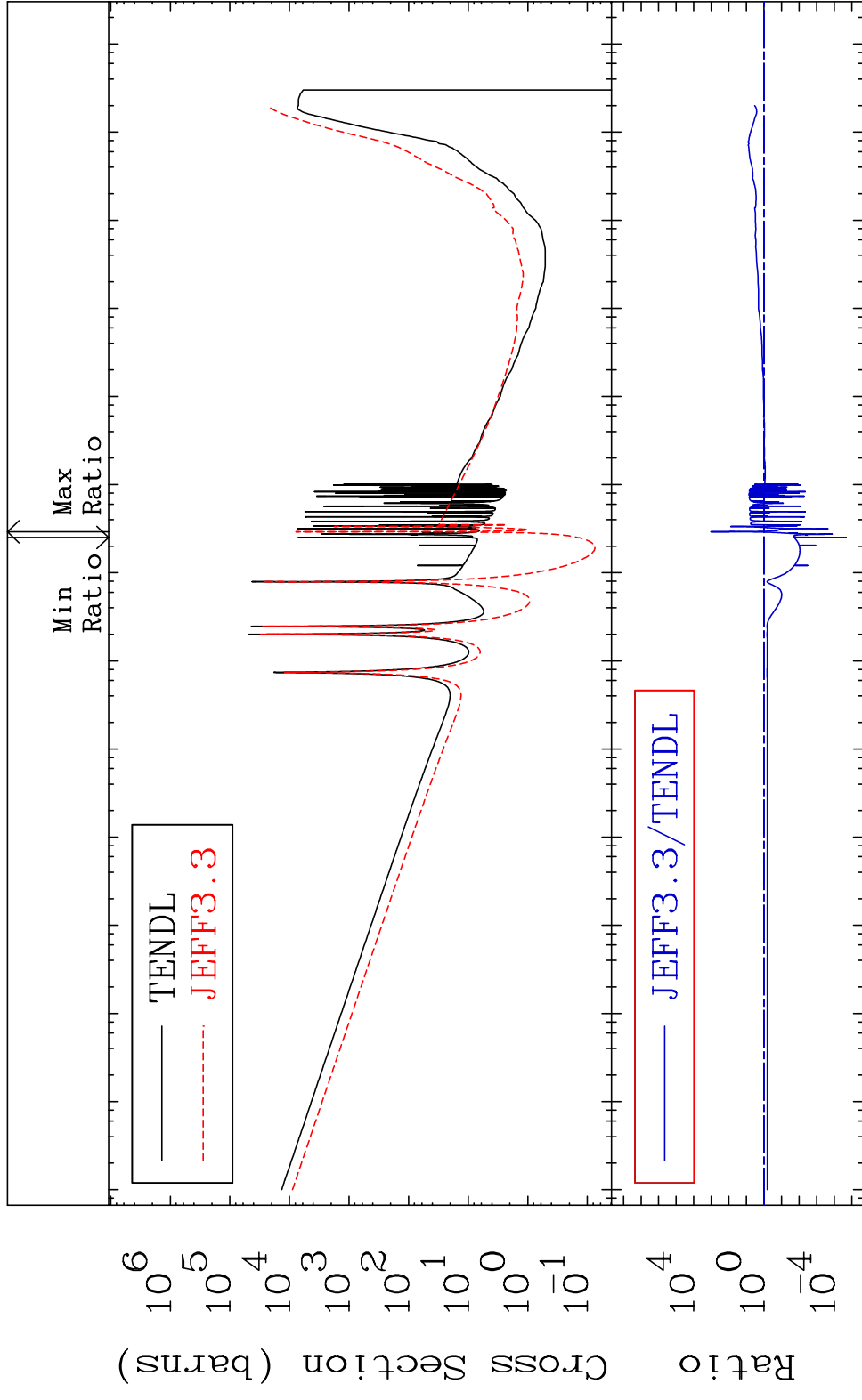
Incident Energy (eV)

58-Ce-141

MAT 5840 Dpa inelastic (mt51-91) 58-Ce-141
 Cross Section -100.0 To 232.0 %



MAT 5840 Dpa disappearance (mt102 -120) 58-Ce-141
 Cross Section -100.0 To 9999. %



45 Incident Energy (eV) 58-Ce-141