

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

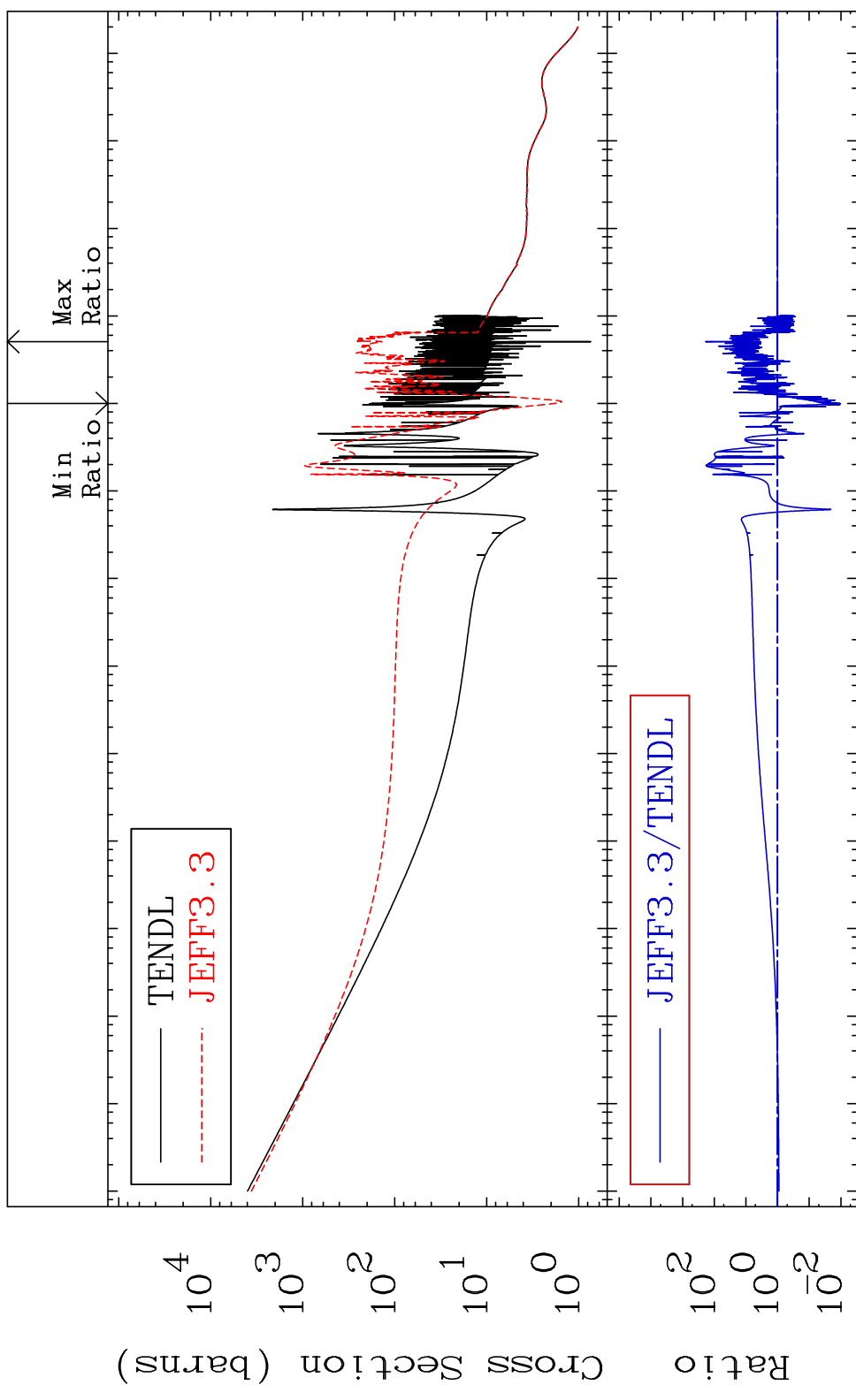
Press Mouse Button to Start

MAT 2519

Total

25-Mn-53

Cross Section -98.97 To 9999. %



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

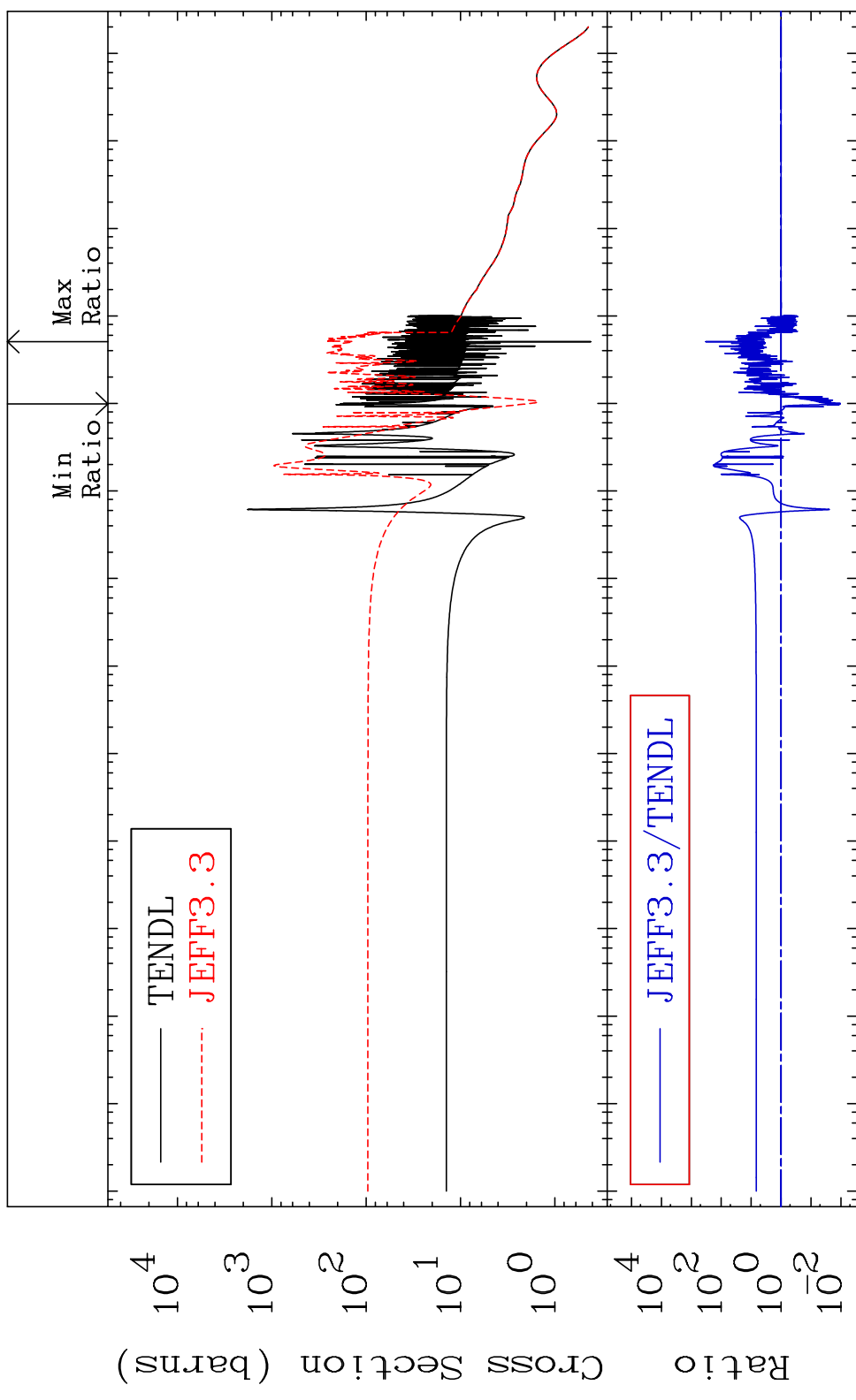
1

Incident Energy (eV)

25-Mn-53

MAT 2519

Elastic Cross Section 25-Mn-53
-98.96 To 9999. %

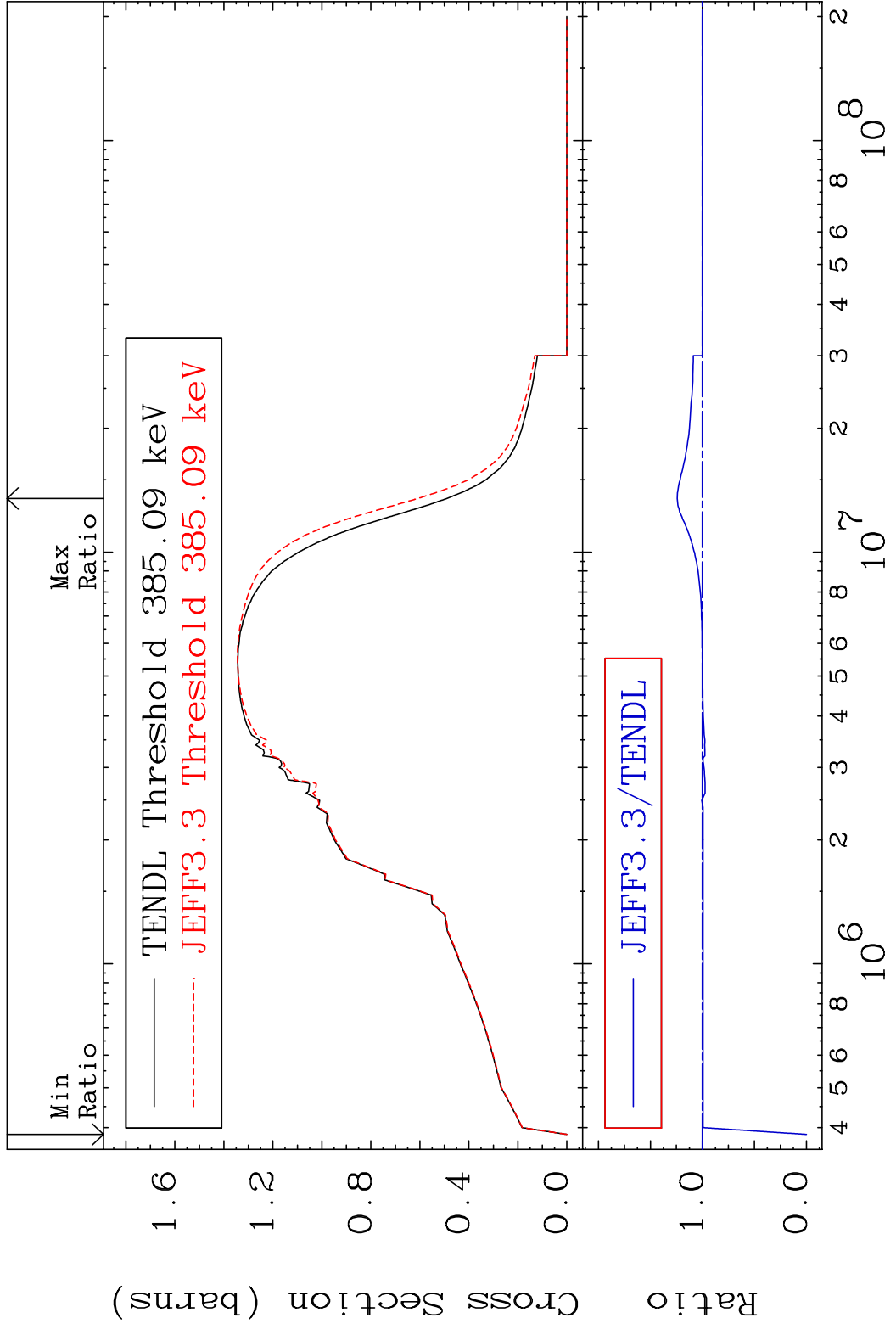


2

Incident Energy (eV)

25-Mn-53

MAT 2519 Inelastic Cross Section -100.0 To 24.27 % 25-Mn-53



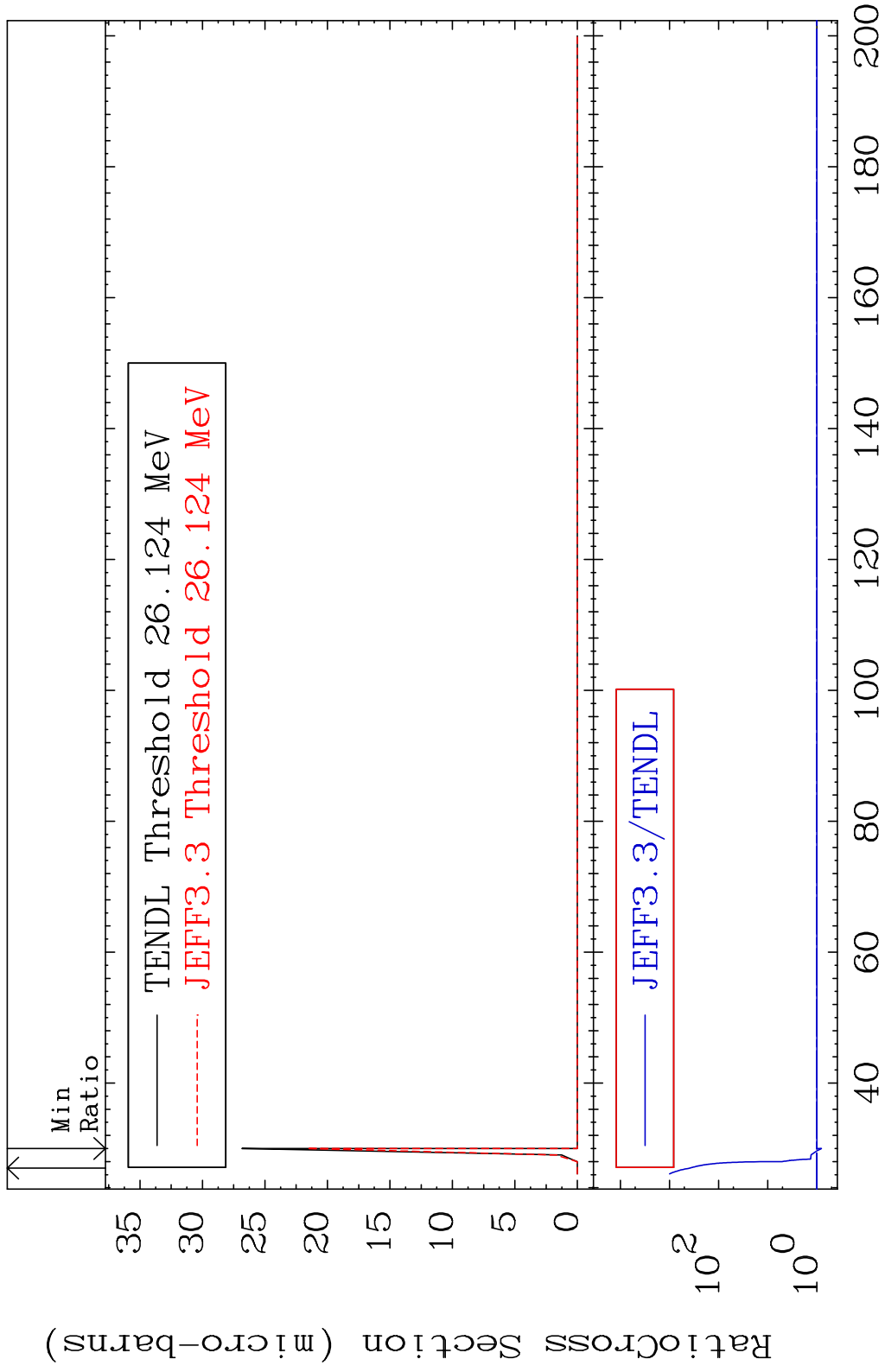
3 Incident Energy (eV) 25-Mn-53

MAT 2519

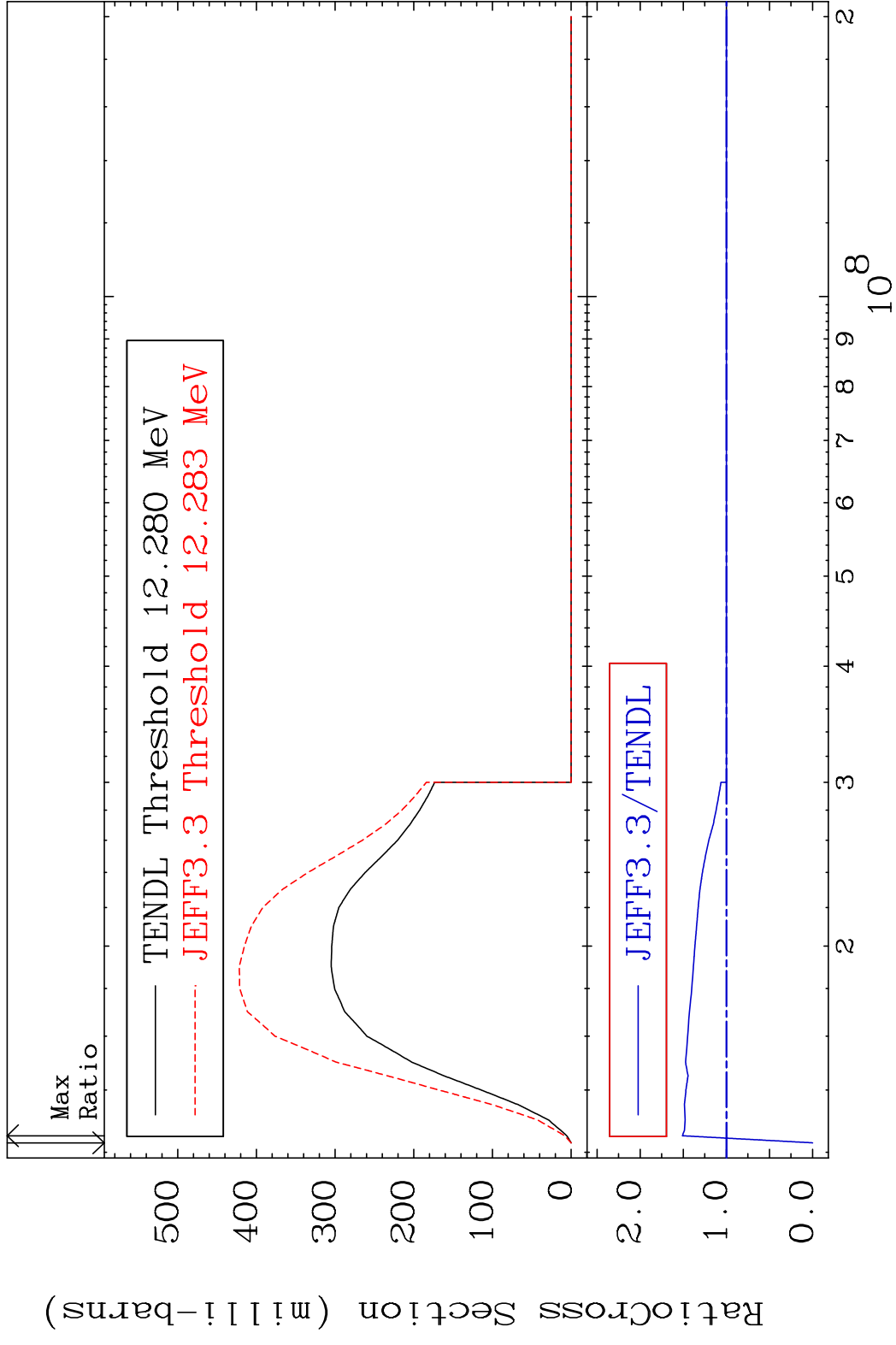
(n,2n) d

25-Mn-53

Cross Section -19.41 To 9999. %



MAT 2519 (n,2n) 25-Mn-53
 Cross Section -100.0 To 51.05 %

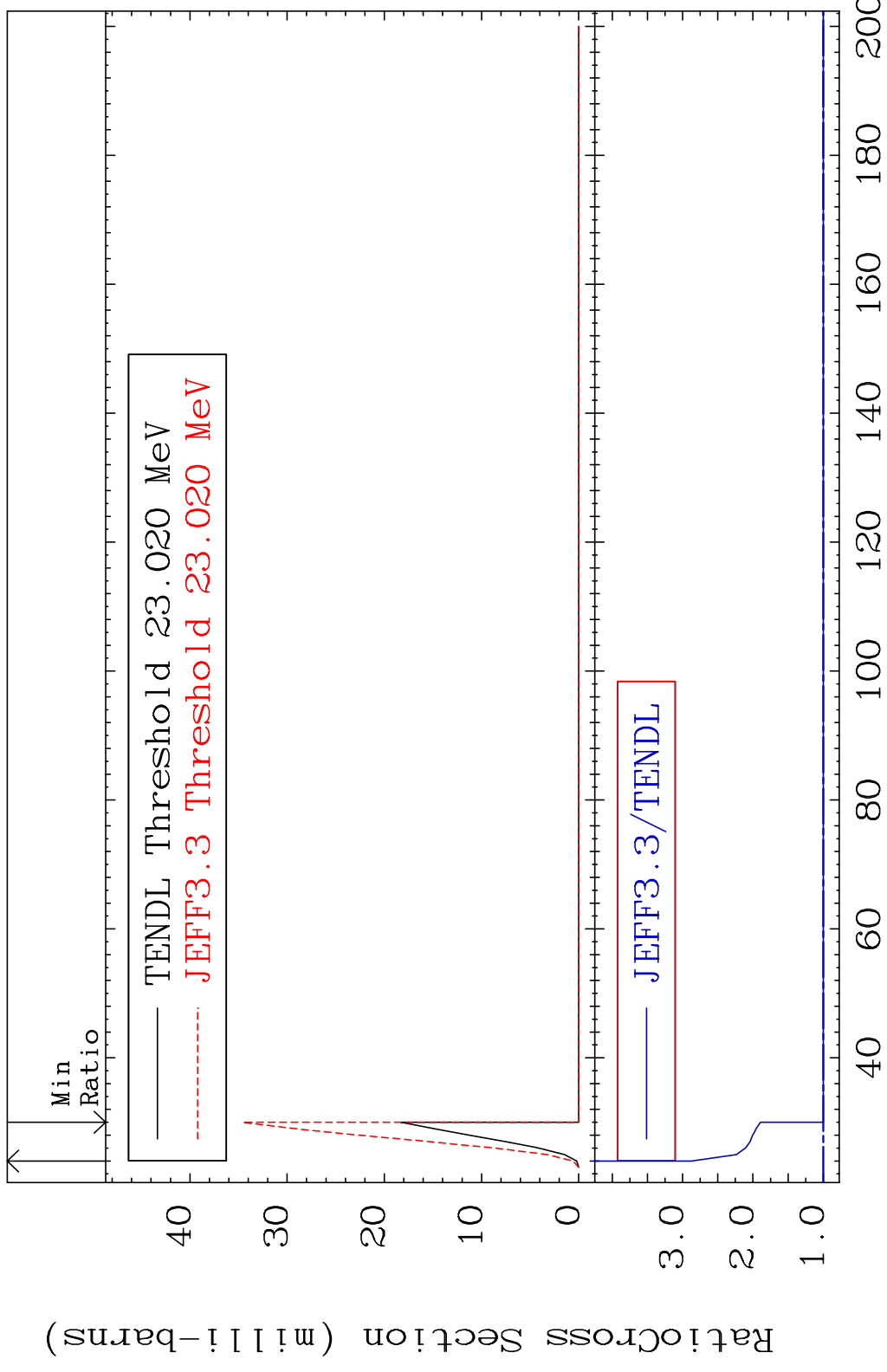


MAT 2519

(n,3n)

²⁵Mn-53

Cross Section 0.000 To 187.6 %

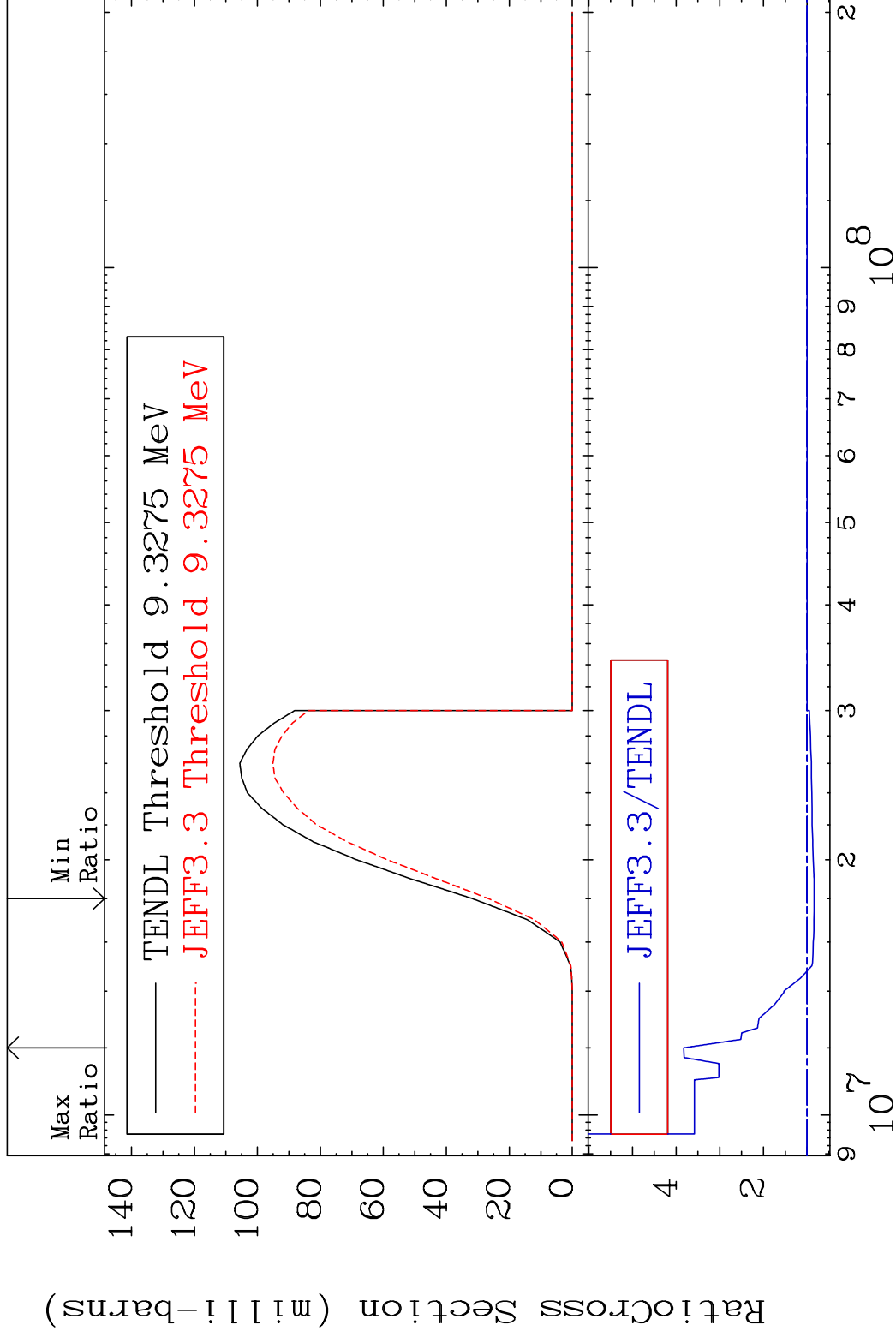


MAT 2519

(n, n') α

25-Mn-53

Cross Section -16.09 To 282.7 %

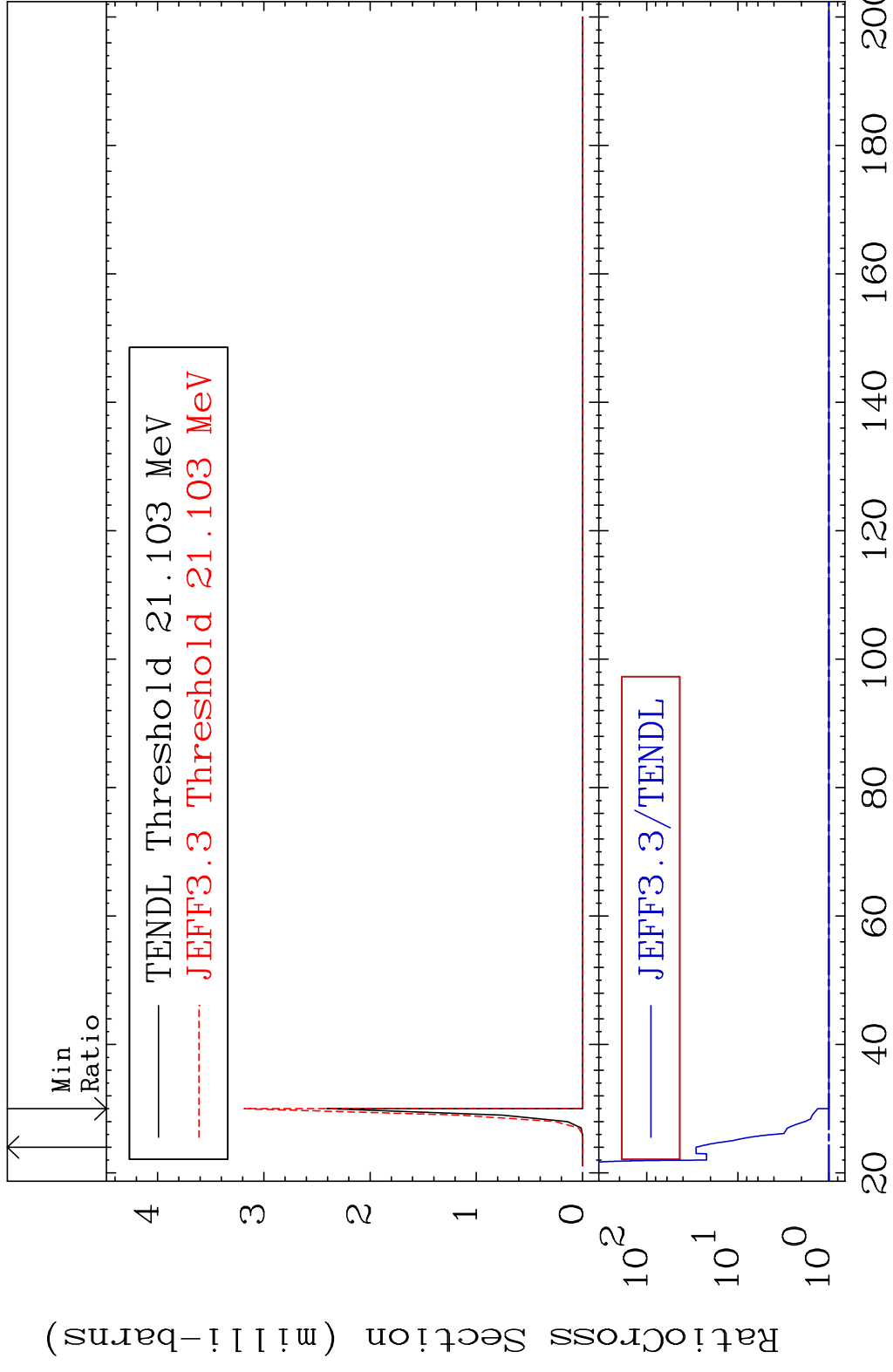


7

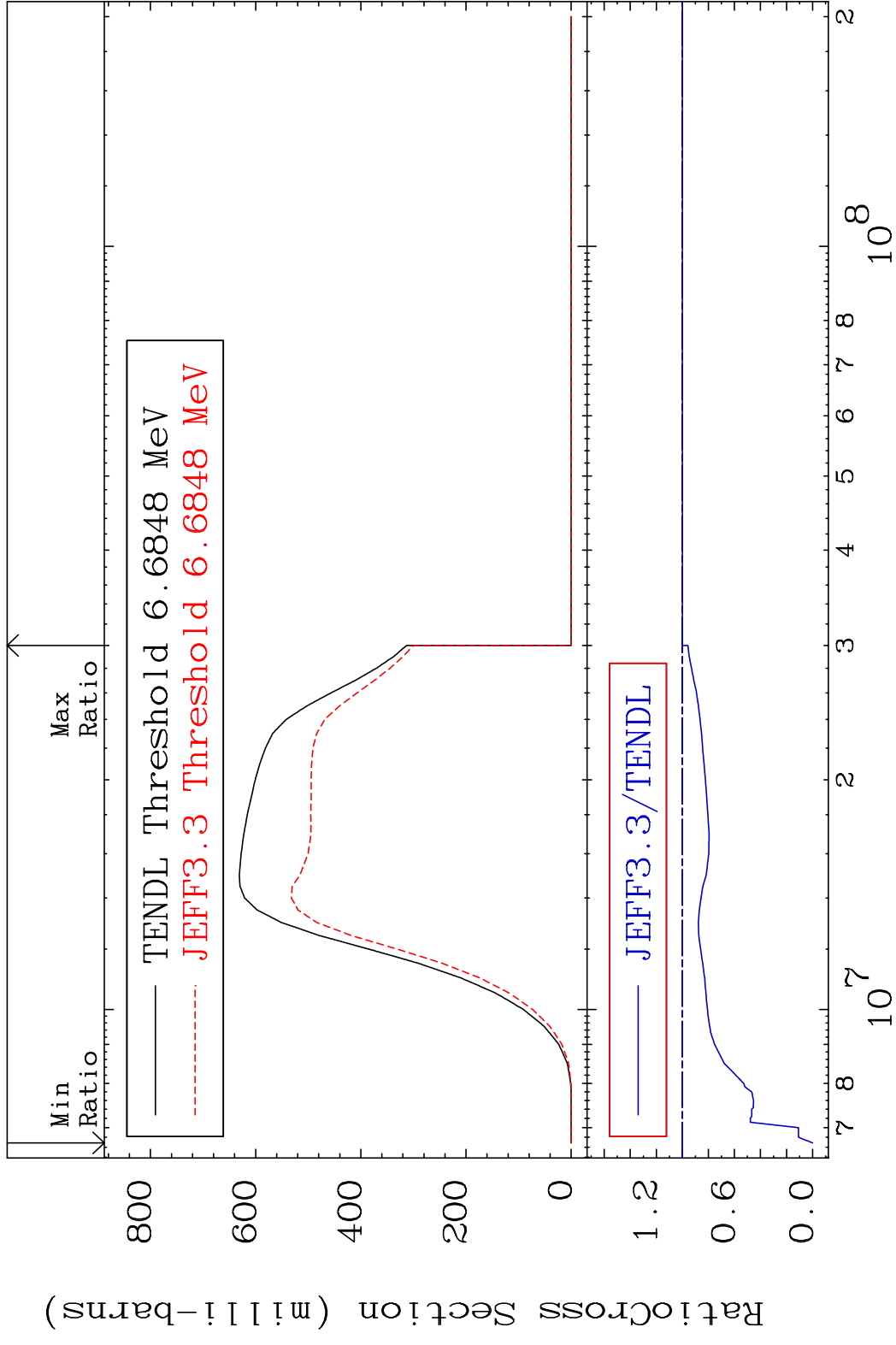
Incident Energy (eV)

25-Mn-53

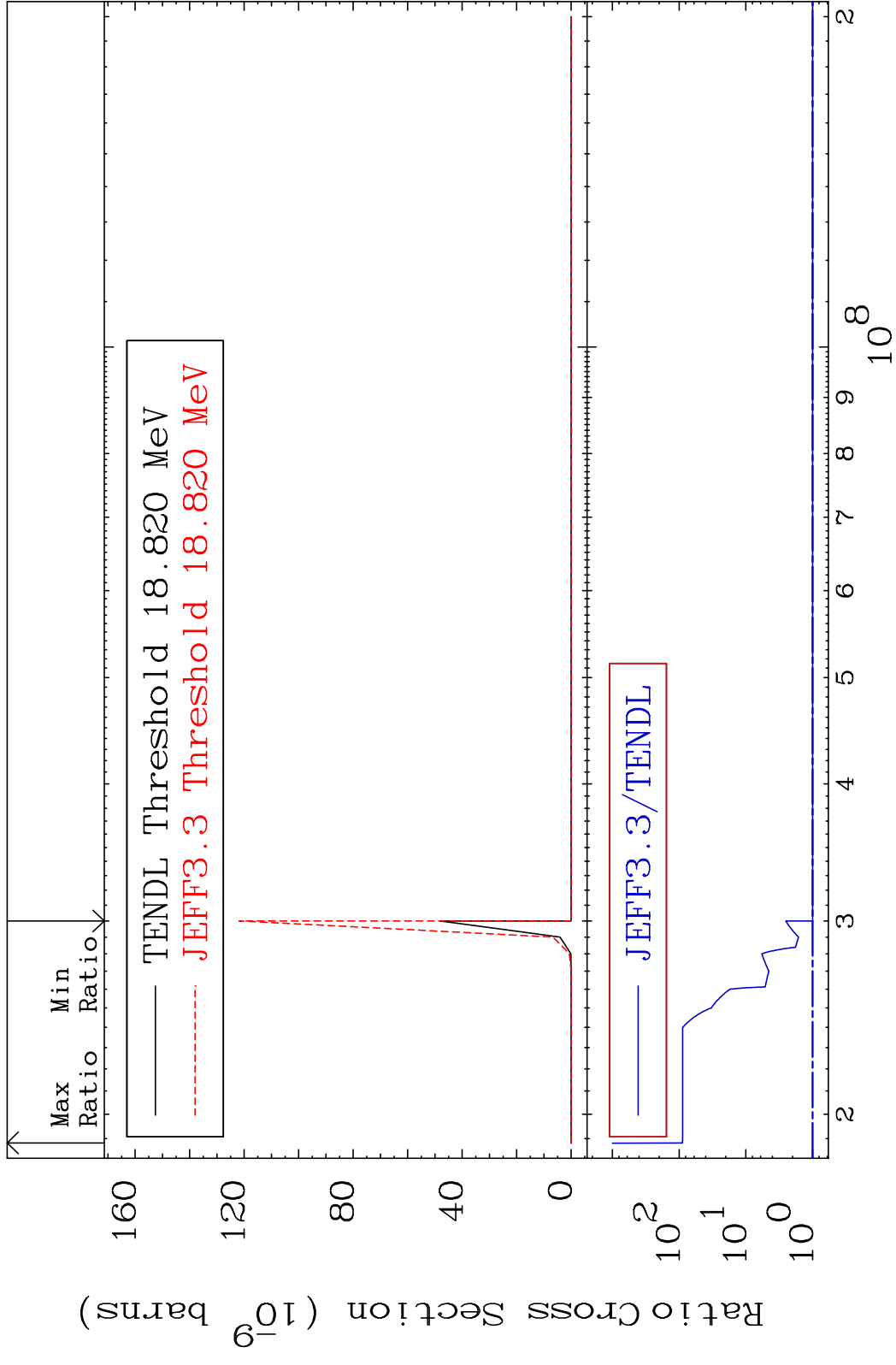
MAT 2519 (n,2n) α 25-Mn-53
 Cross Section 0.000 To 2781. %



MAT 2519 (n, n') p 25-Mn-53
 Cross Section -100.0 To 0.000 %

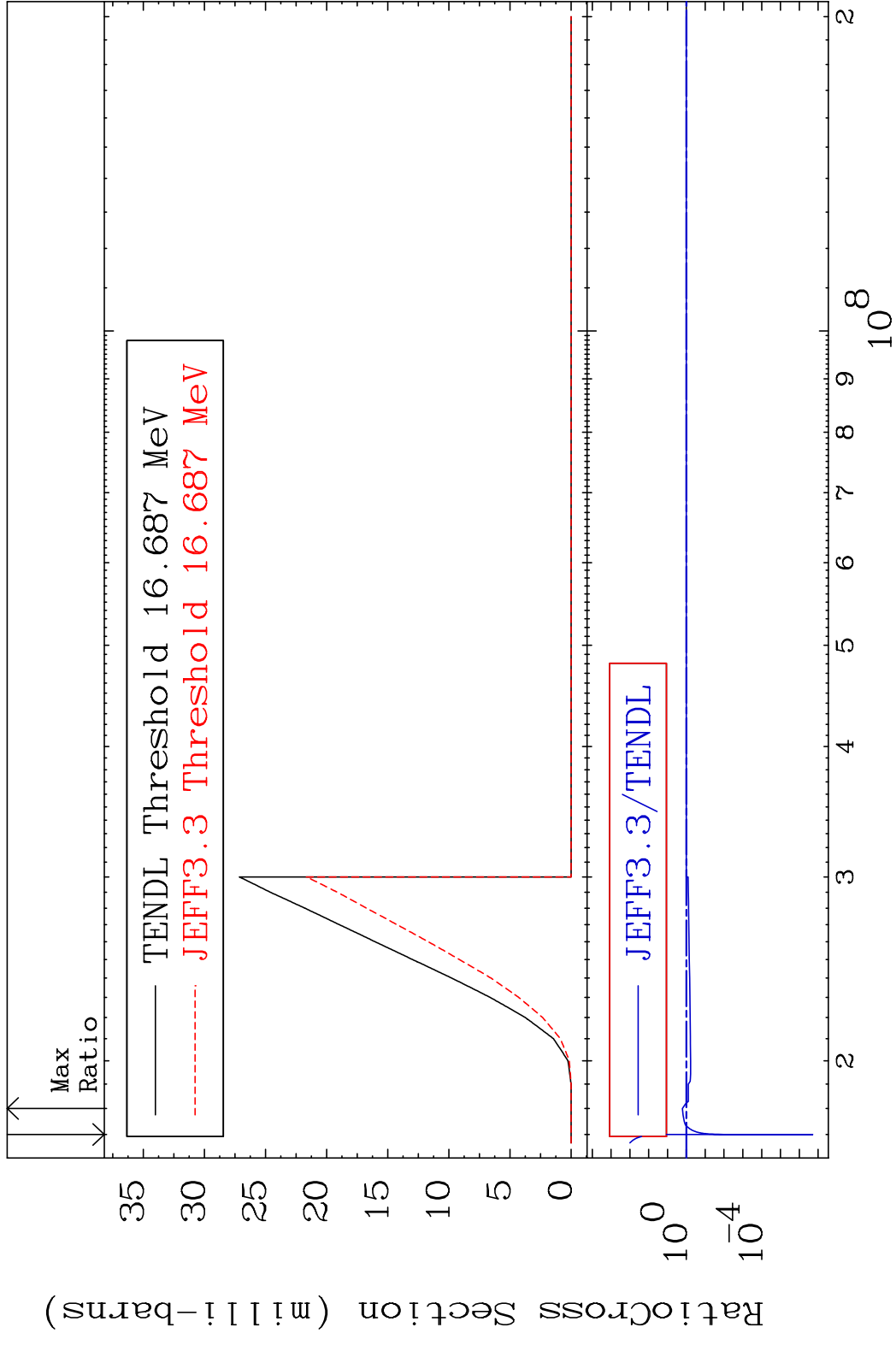


MAT 2519 (n, n') 2α 25-Mn-53
 Cross Section 0.000 To 8846. %



10 25-Mn-53

MAT 2519 (n, n') d 25-Mn-53
 Cross Section -100.0 To 63.13 %

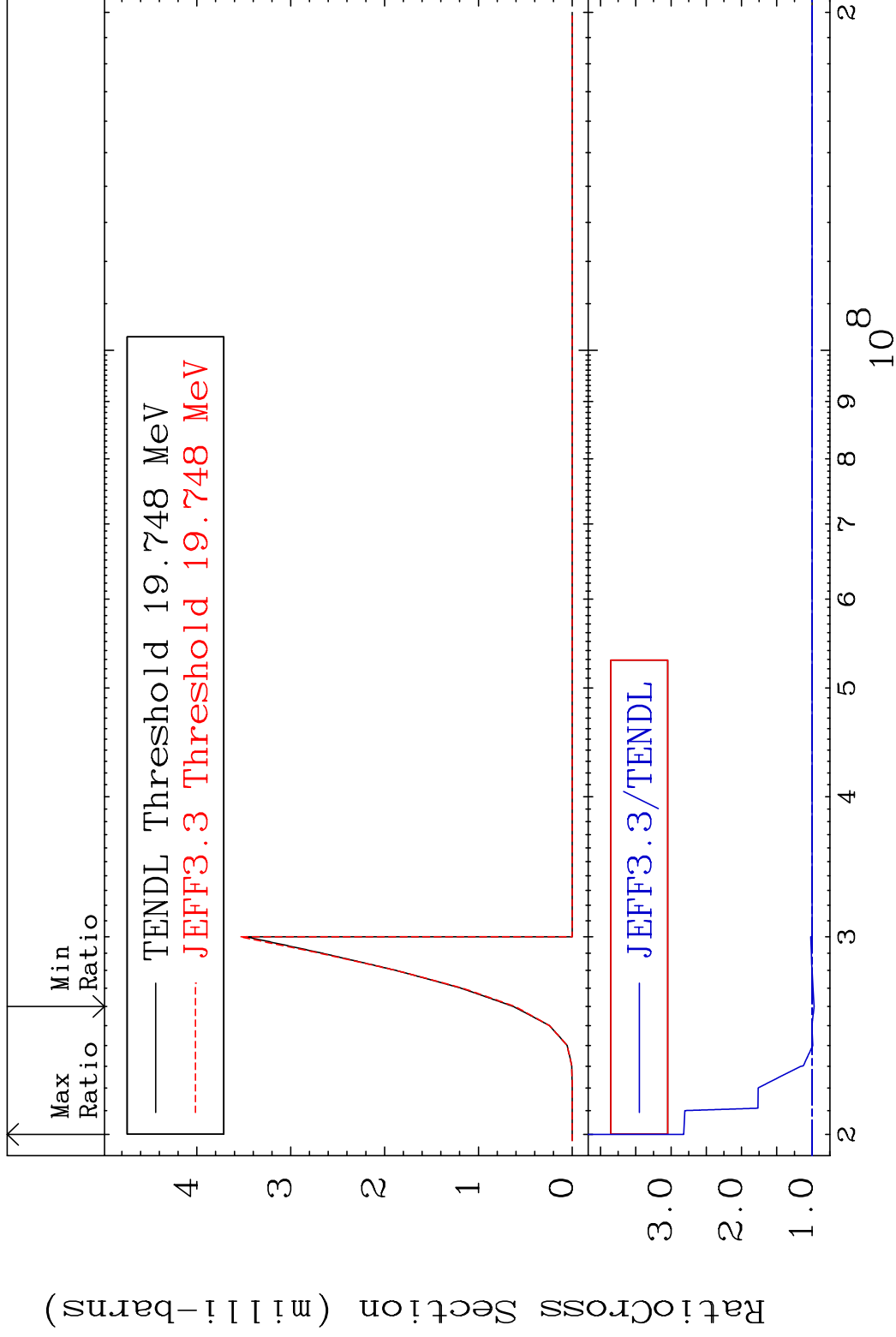


MAT 2519

(n, n') t

25-Mn-53

Cross Section -2.929 To 182.1 %



12

Incident Energy (eV)

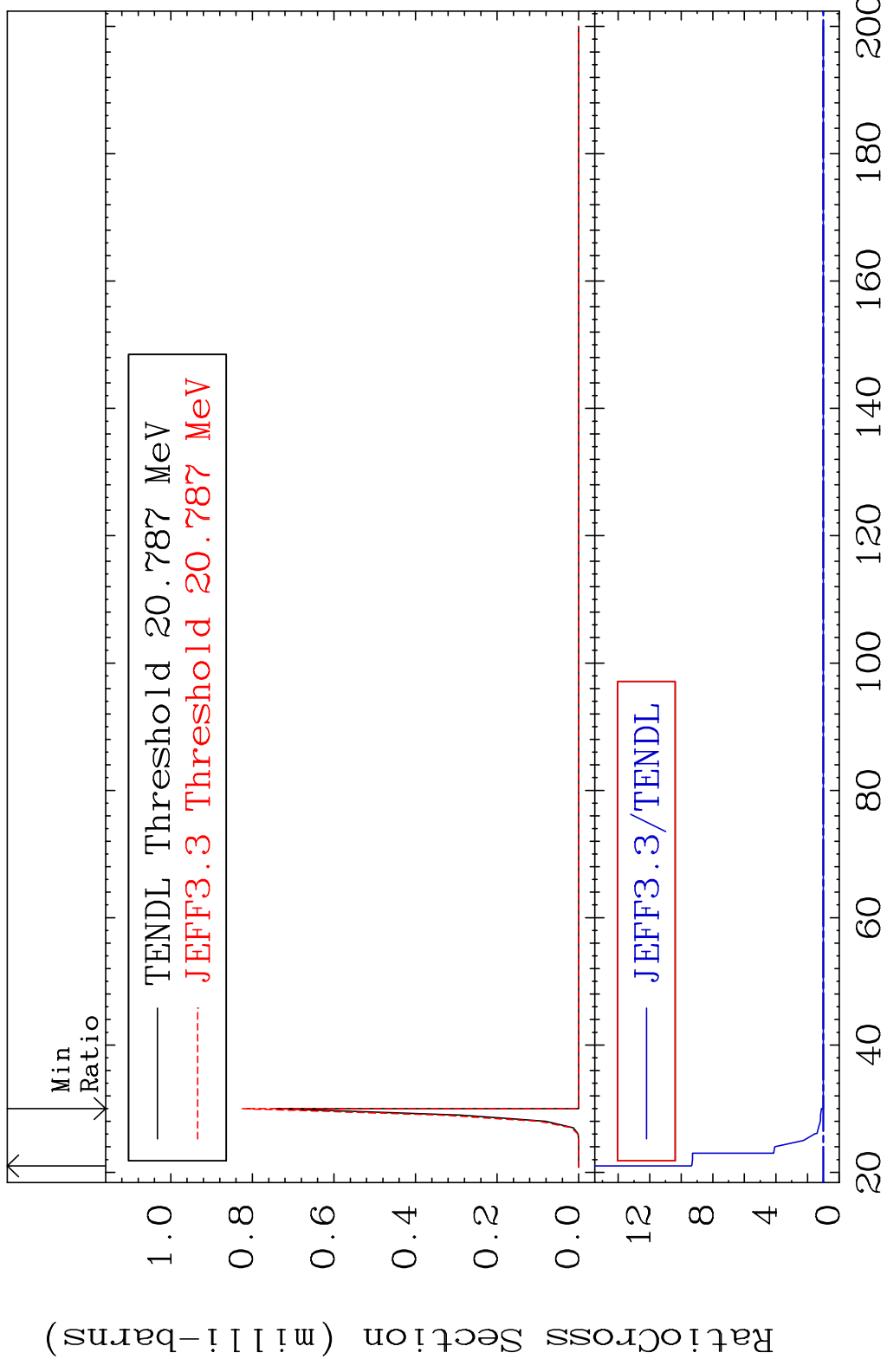
25-Mn-53

MAT 2519

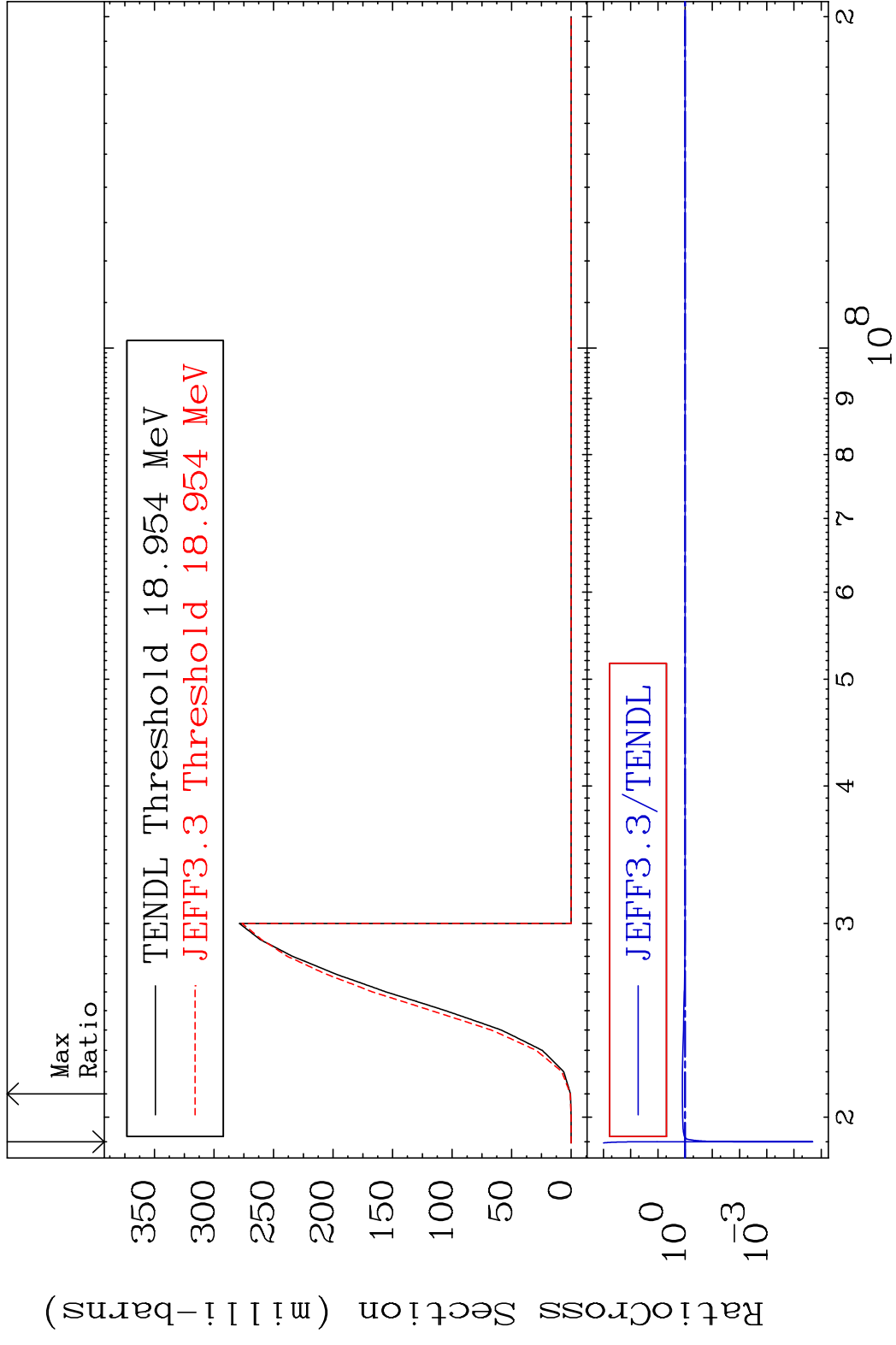
(n,n') He-3

25-Mn-53

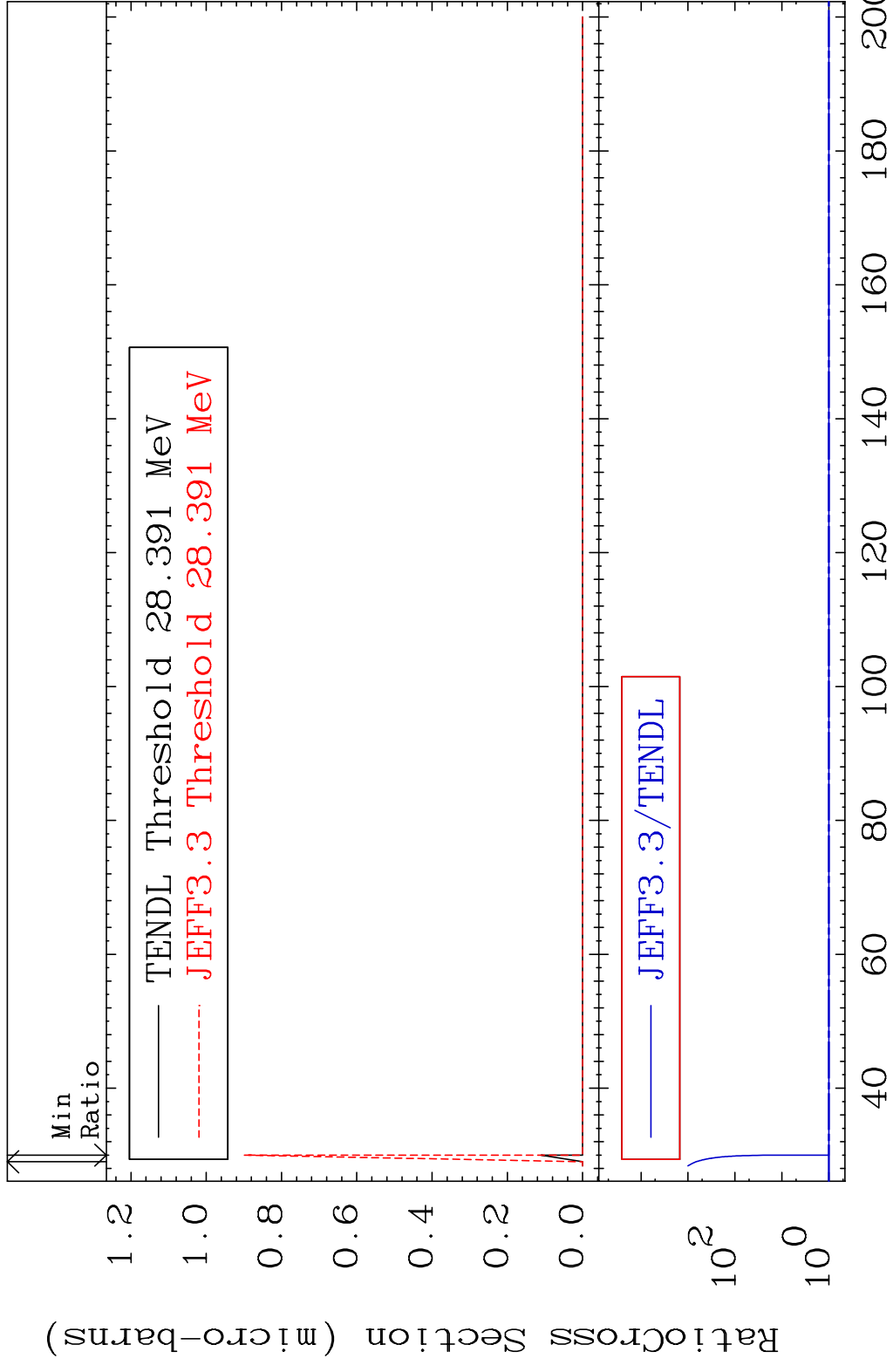
Cross Section 0.000 To 836.3 %



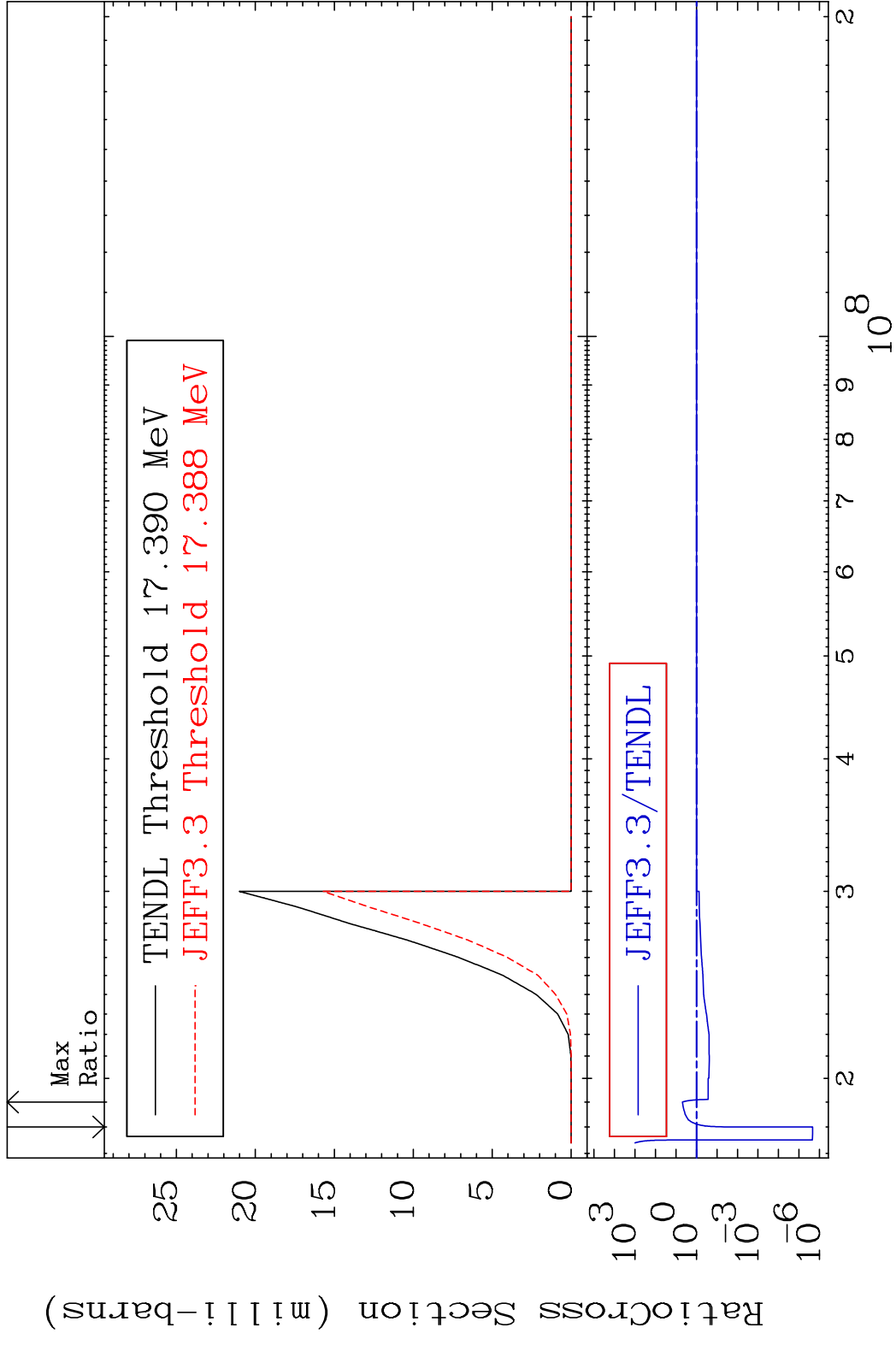
MAT 2519 (n,2n) p 25-Mn-53
 Cross Section -100.0 To 26.26 %



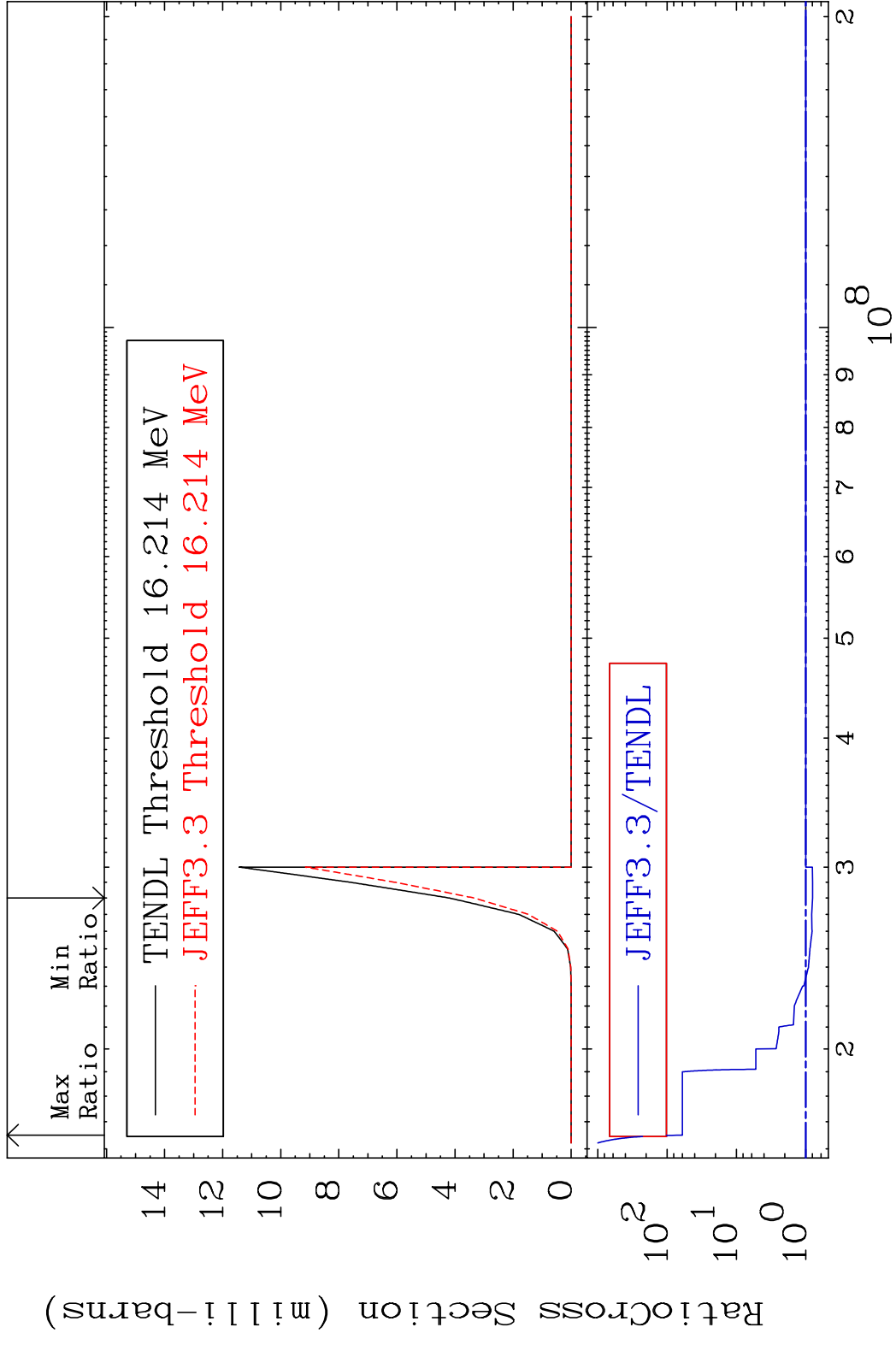
MAT 2519 (n,3n) p 25-Mn-53
 Cross Section 0.000 To 9999. %



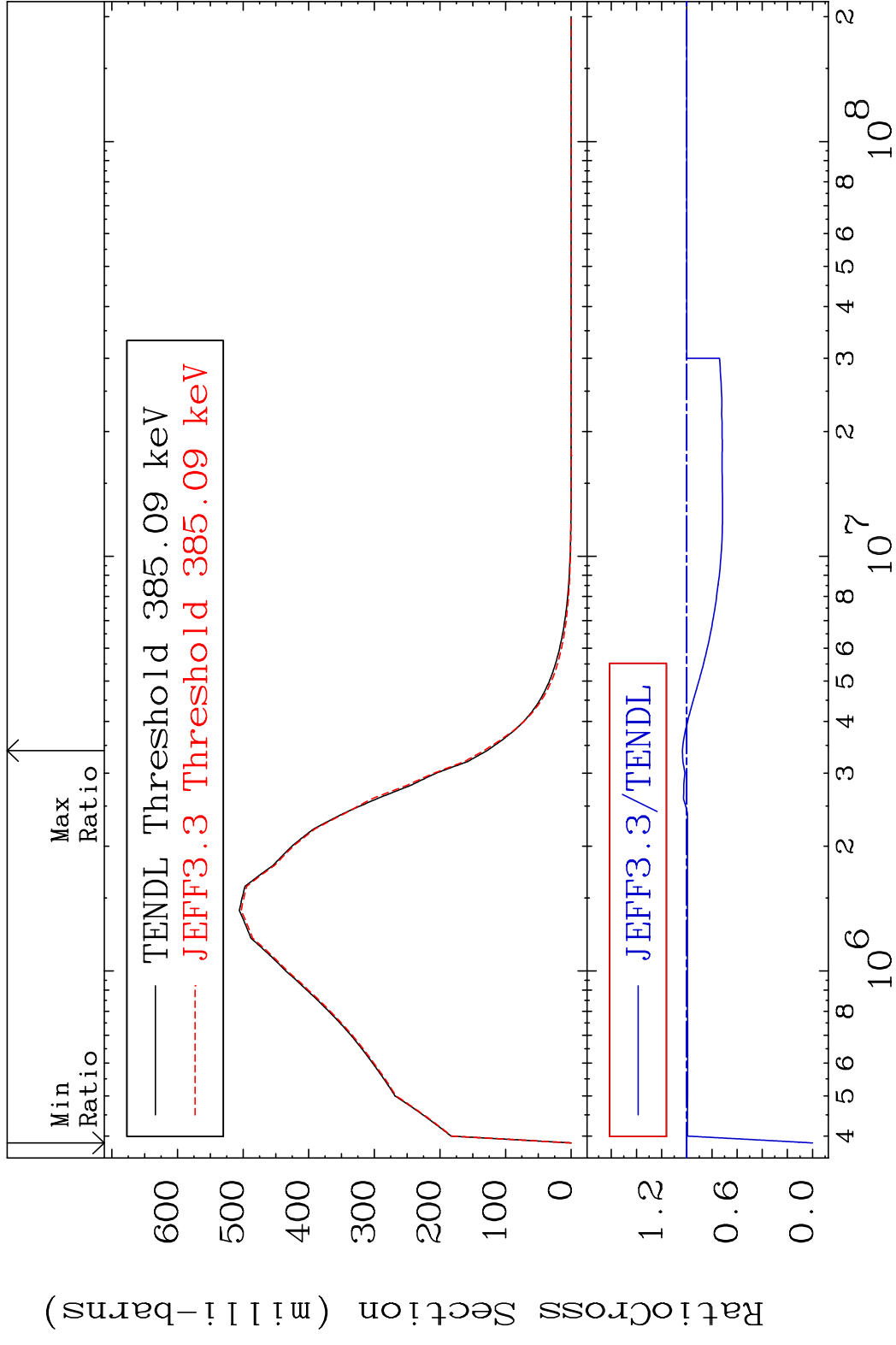
MAT 2519 (n,2n) p 25-Mn-53
 Cross Section -100.0 To 389.9 %



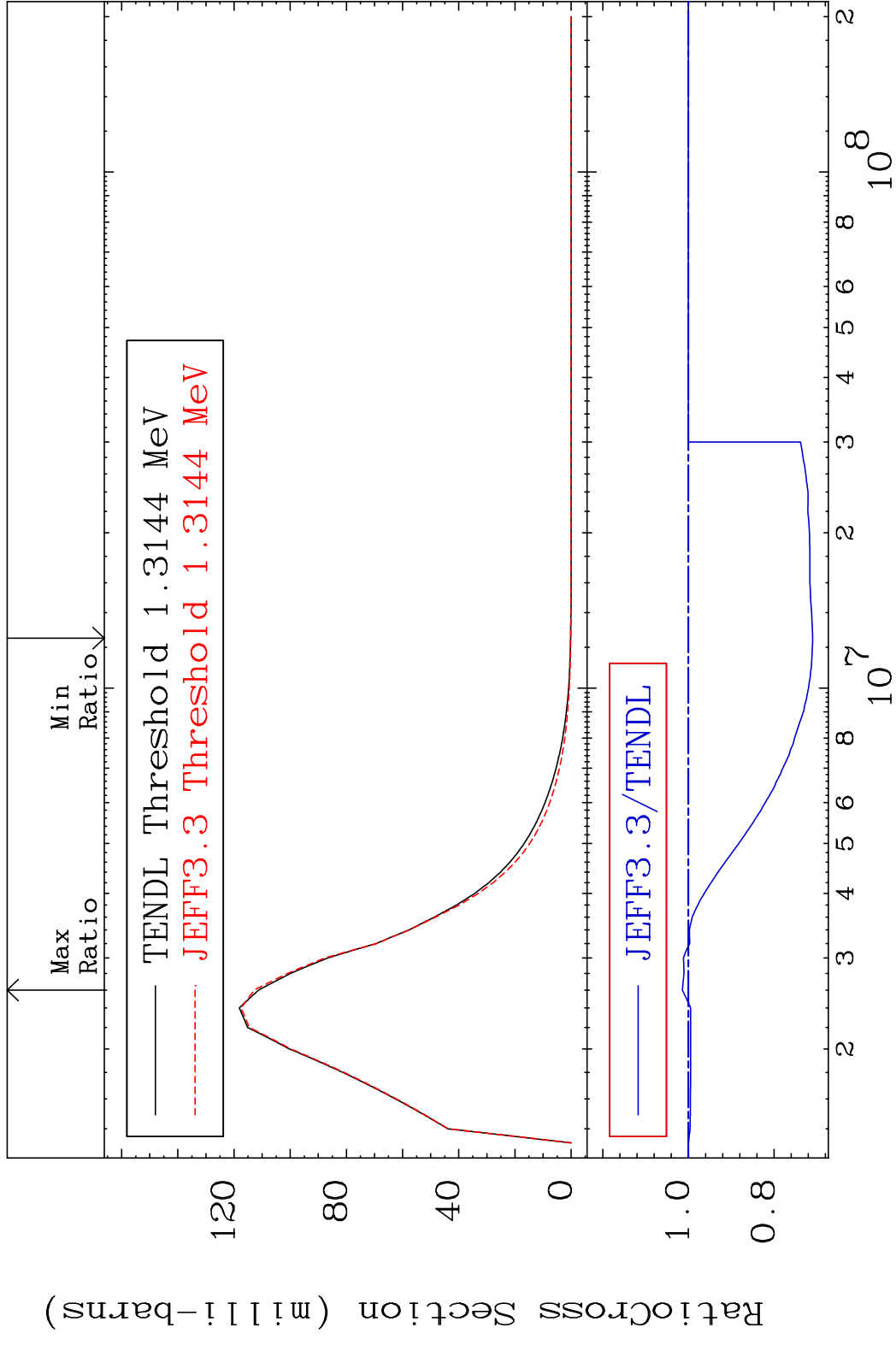
MAT 2519 (n, n') p α 25-Mn-53
 Cross Section -20.28 To 5911. %



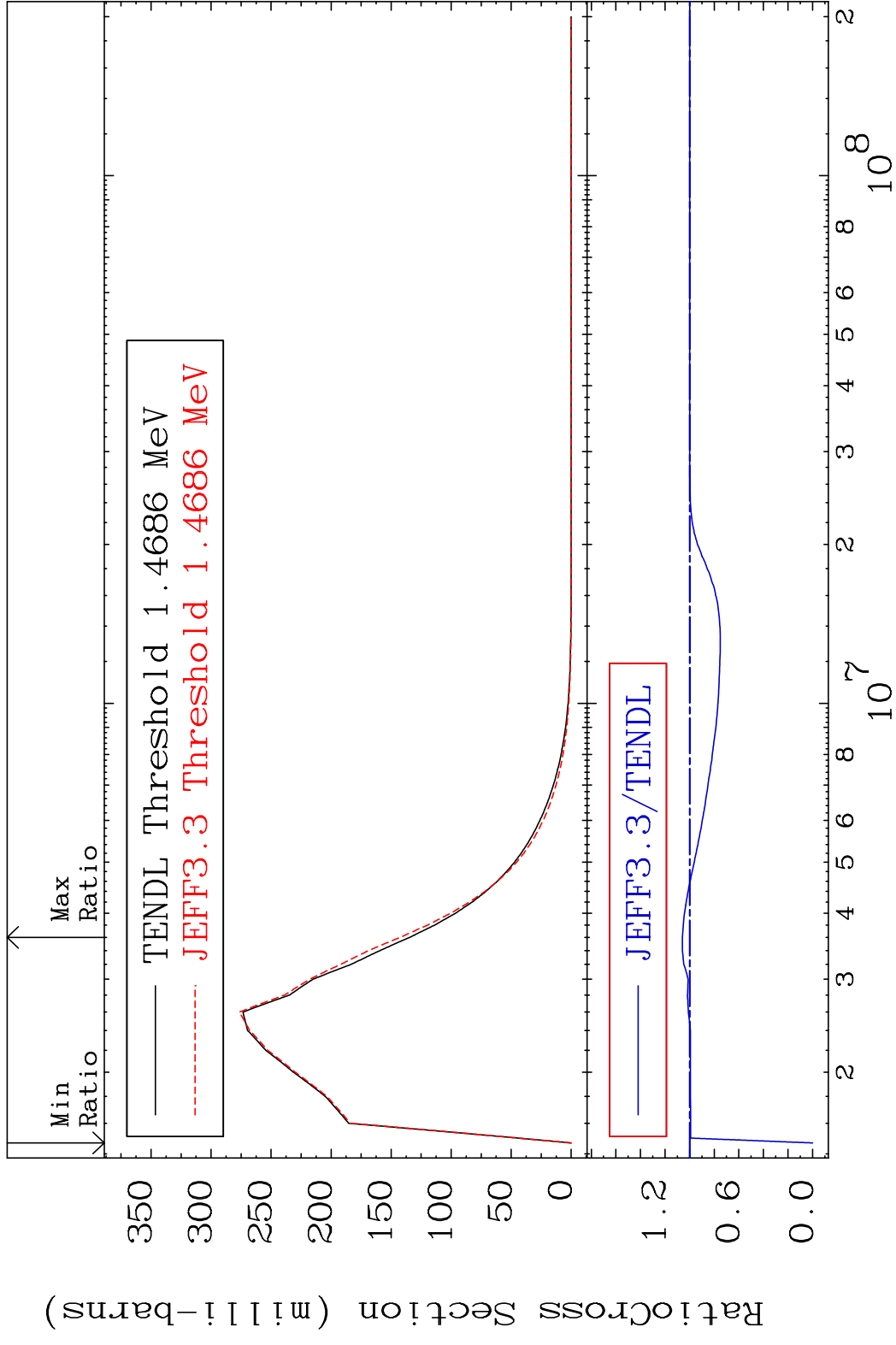
MAT 2519 MT= 51 (n, n') Level 25-Mn-53
 Cross Section -100.0 To 3.516 %



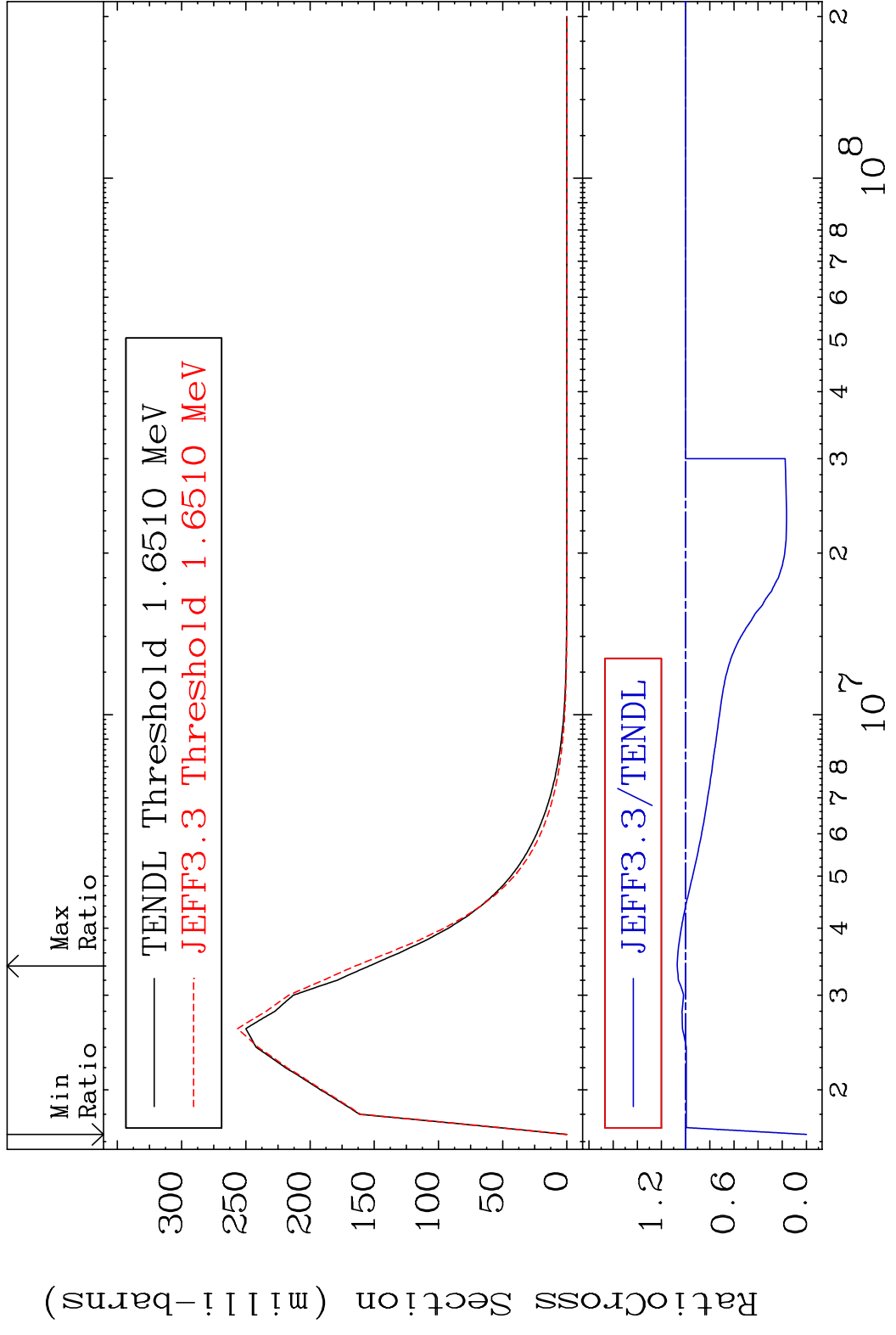
MAT 2519 MT= 52 (n, n') Level 25-Mn-53
 Cross Section -28.98 To 1.413 %



MAT 2519 MT= 53 (n, n') Level 25-Mn-53
 Cross Section -100.0 To 5.926 %



MAT 2519 MT= 54 (n,n') Level 25-Mn-53
 Cross Section -100.0 To 6.983 %

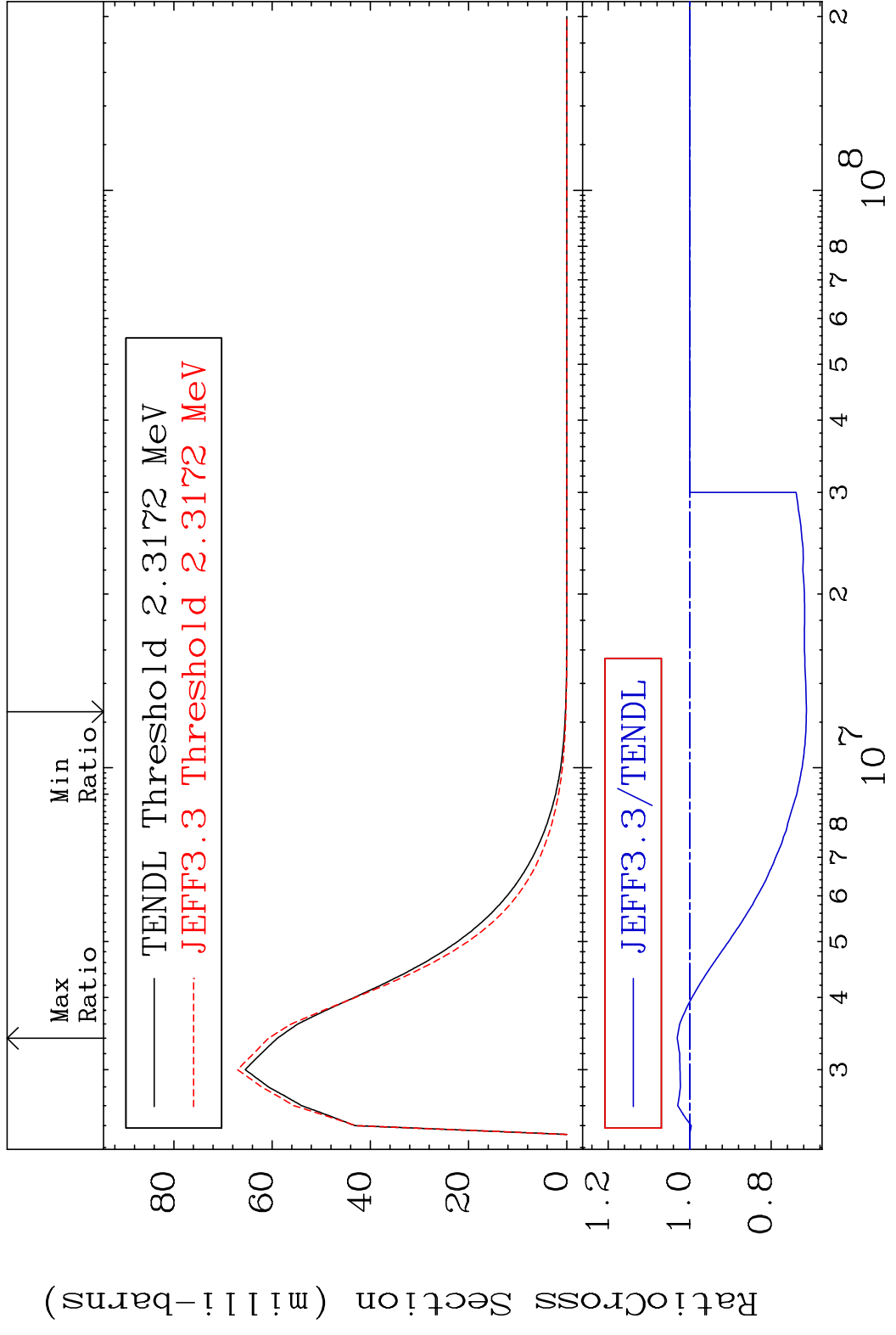


MAT 2519

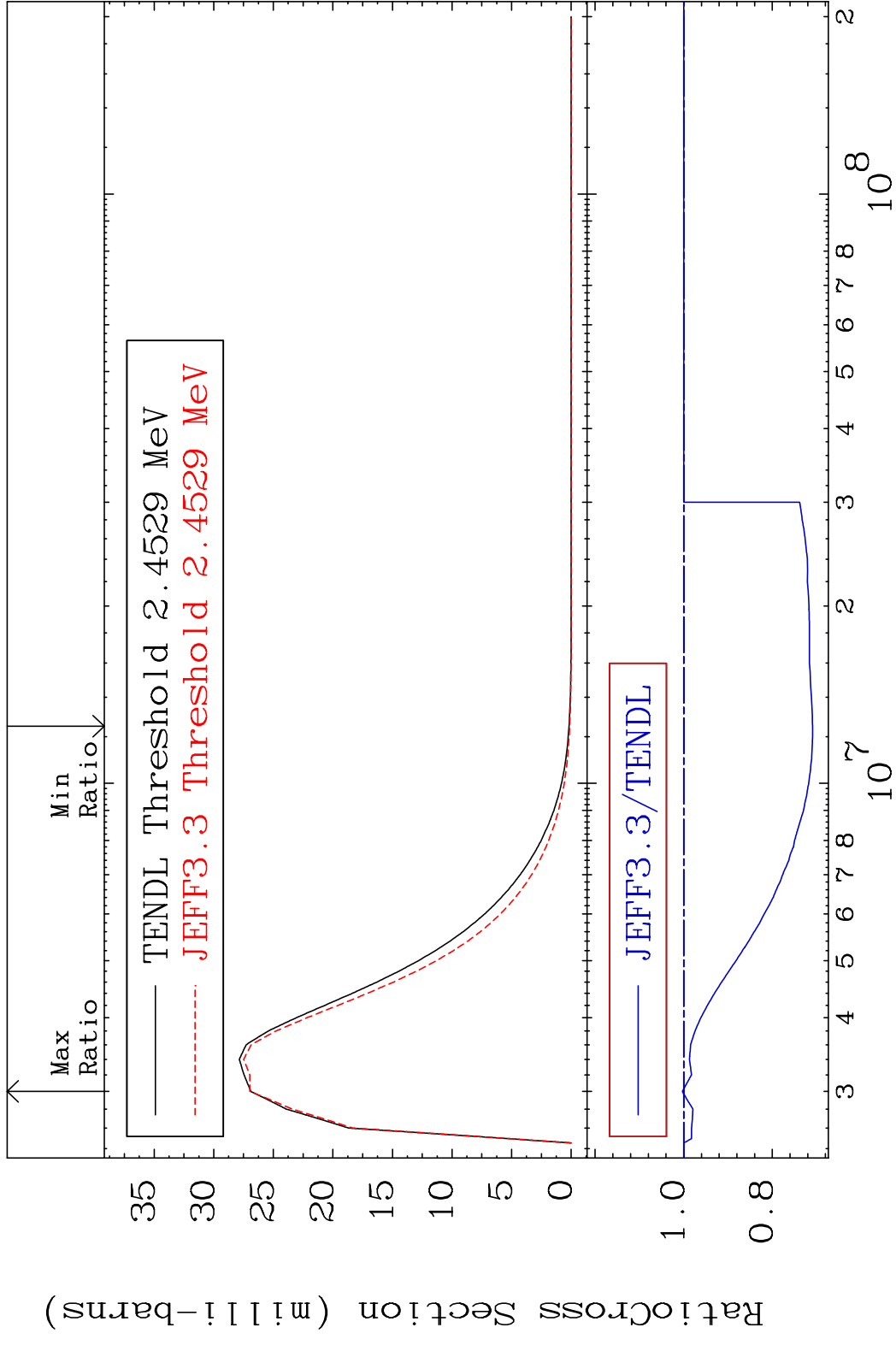
MT= 55 (n, n') Level

25-Mn-53

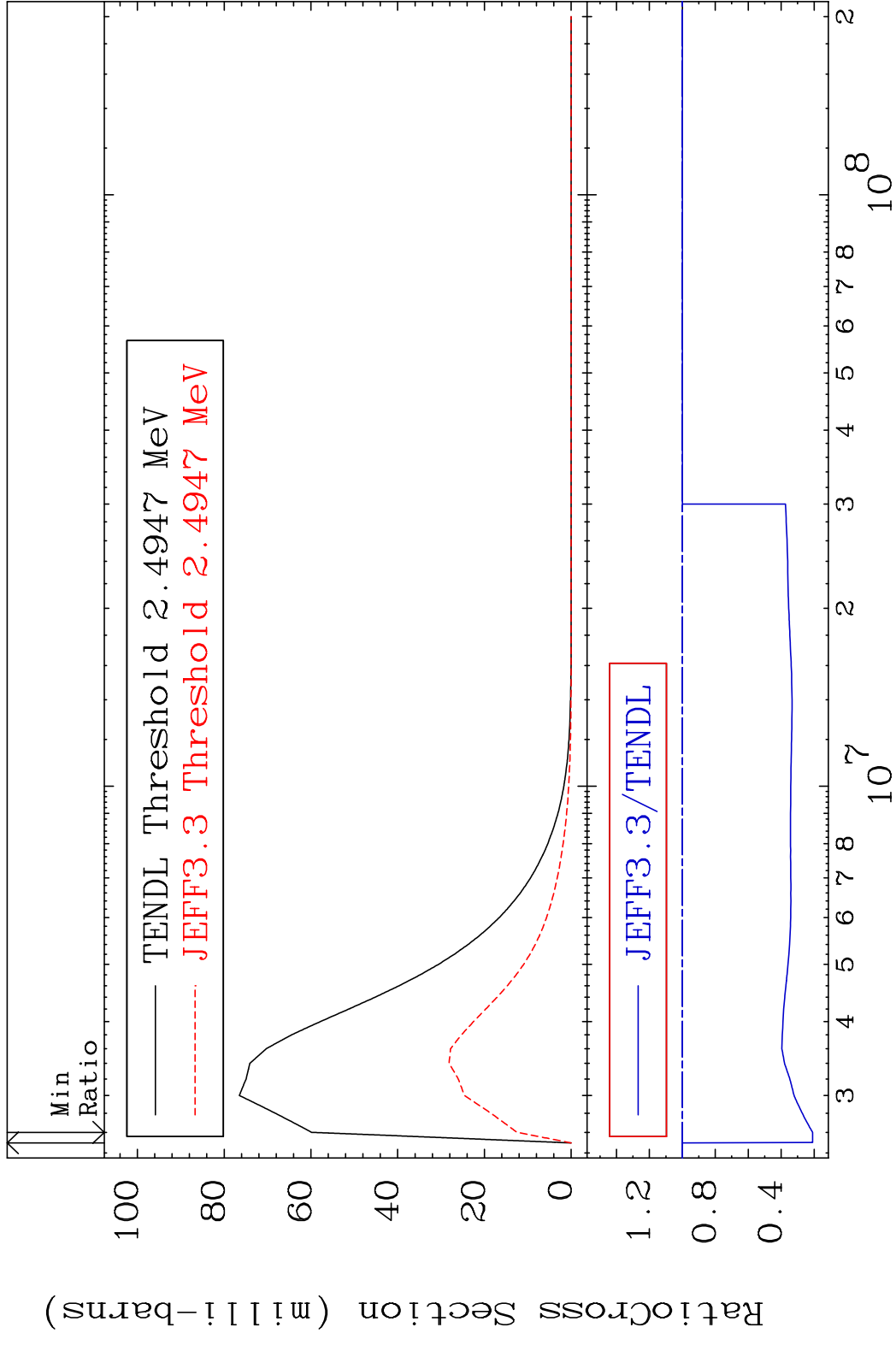
Cross Section -28.66 To 3.063 %



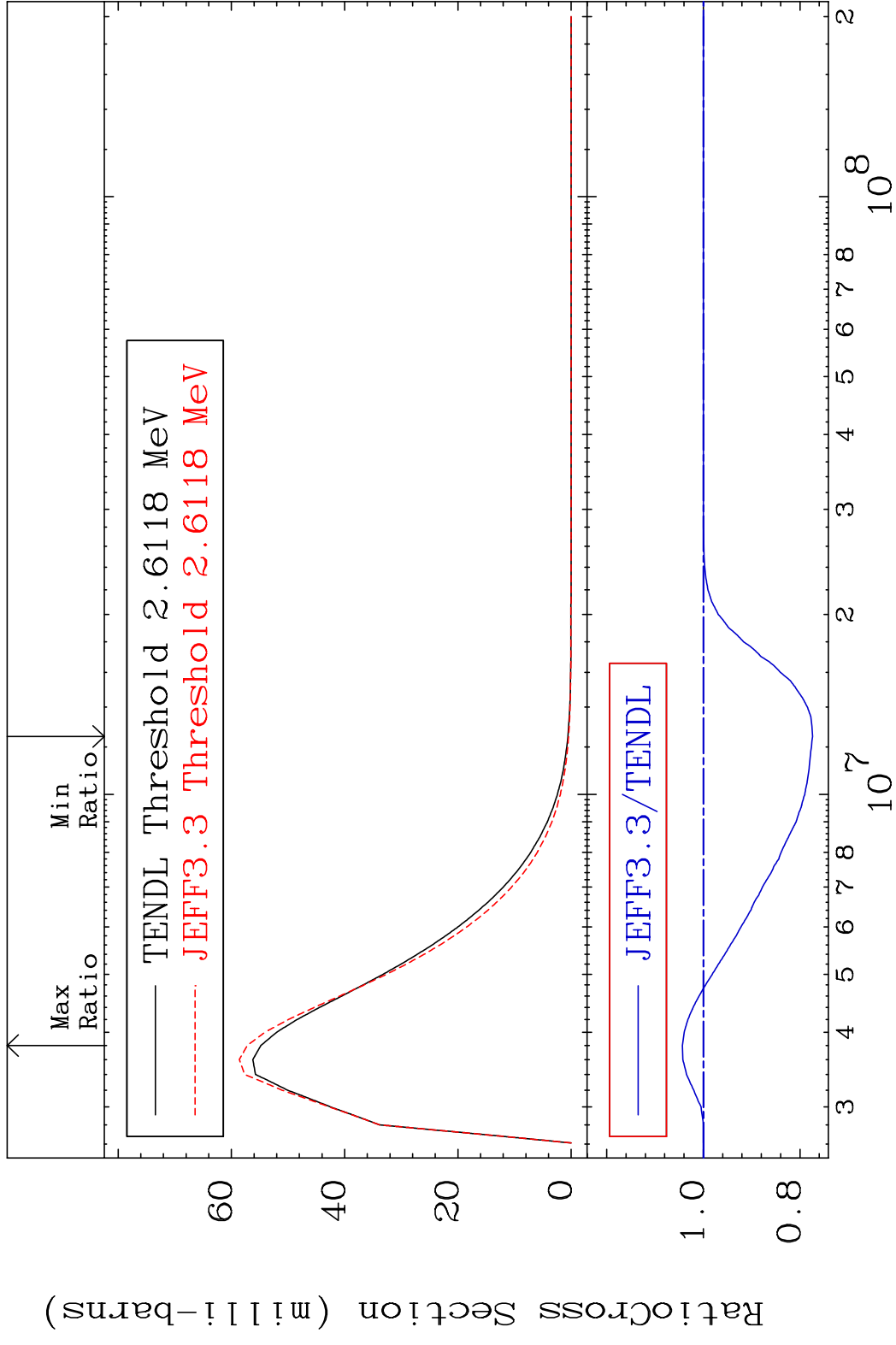
MAT 2519 MT= 56 (n, n') Level 25-Mn-53
 Cross Section -29.09 To 0.310 %



MAT 2519 MT= 57 (n, n') Level 25-Mn-53
 Cross Section -79.07 To 0.000 %

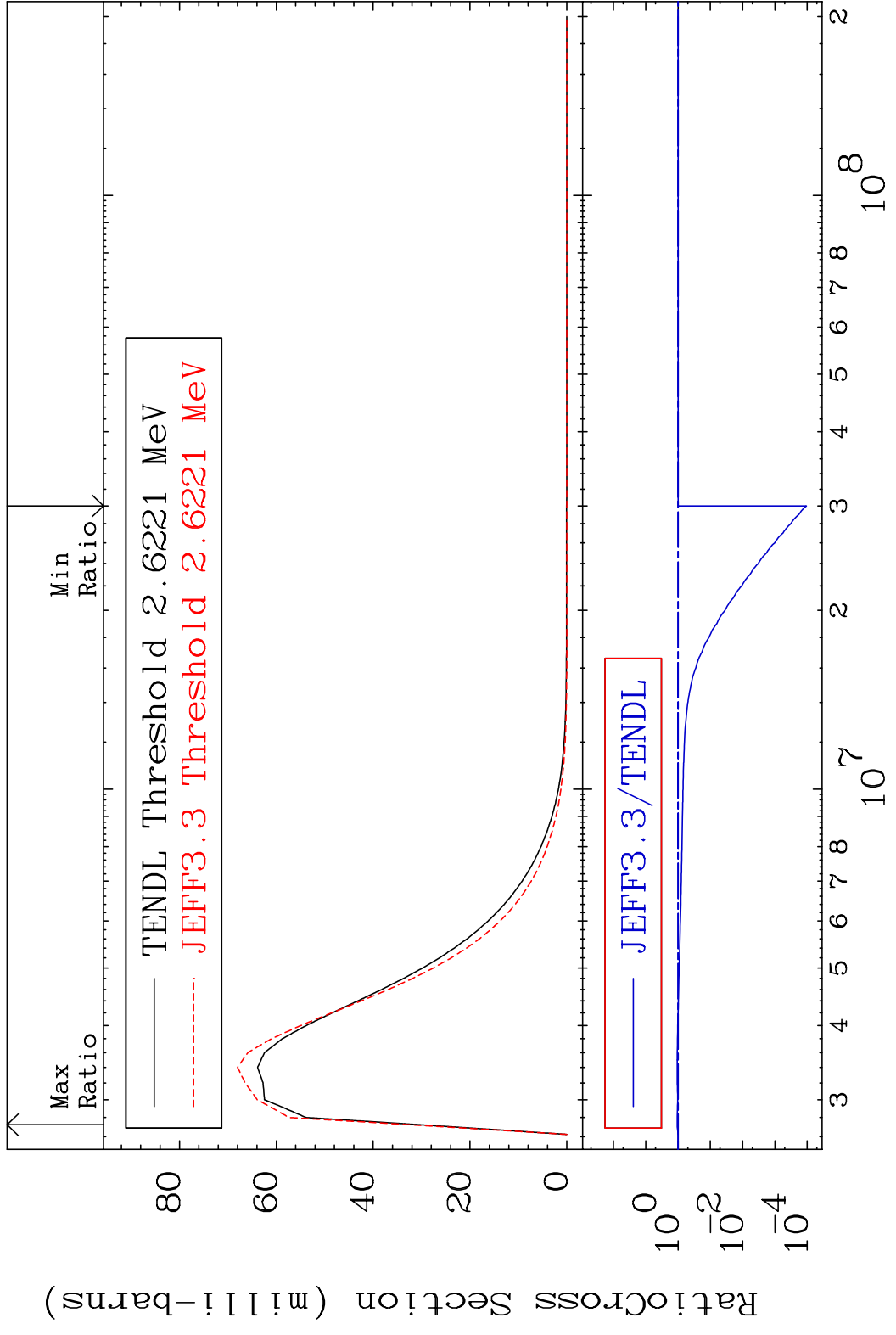


MAT 2519 MT= 58 (n, n') Level 25-Mn-53
 Cross Section -22.61 To 4.340 %

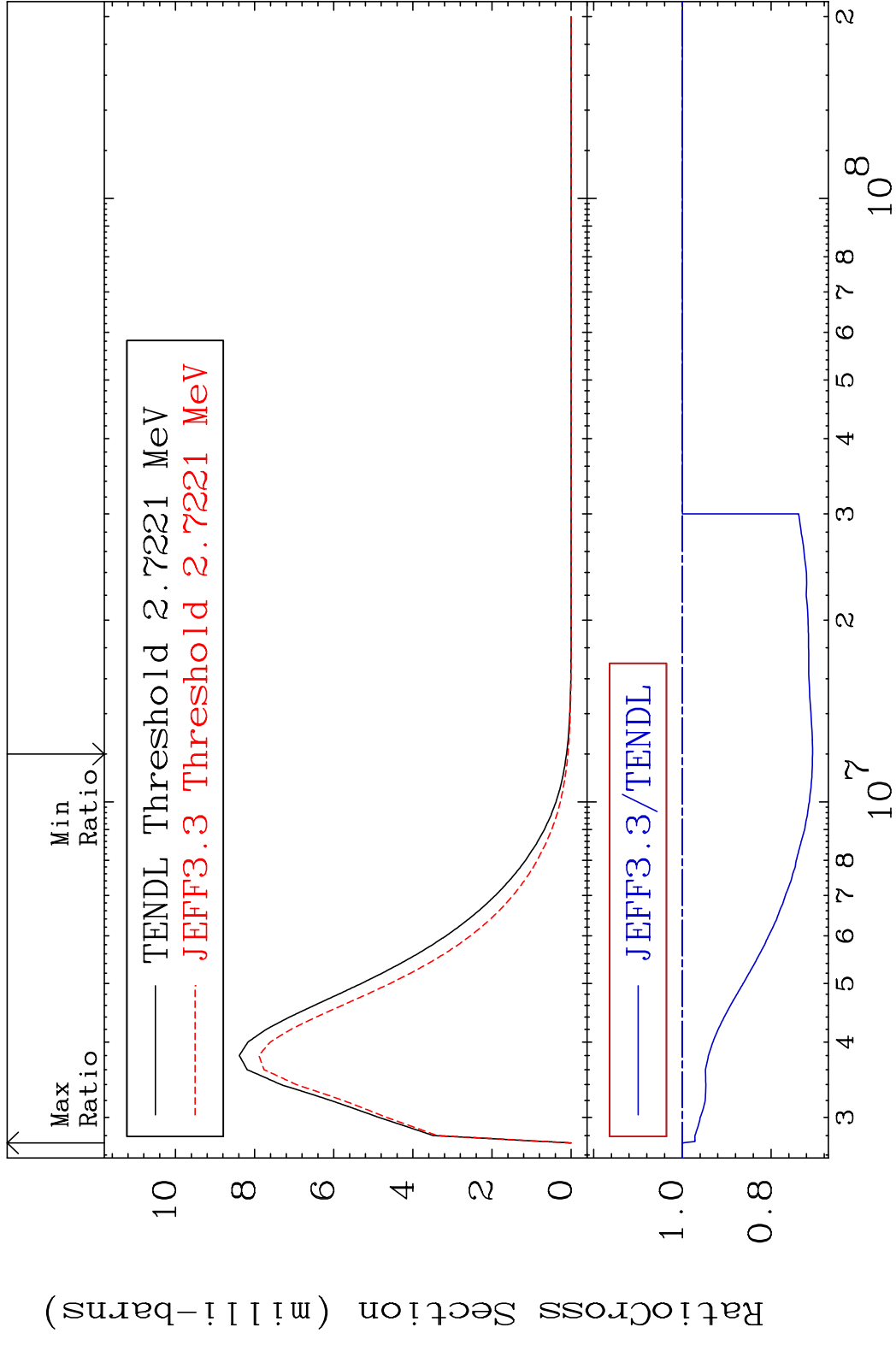


25 25-Mn-53

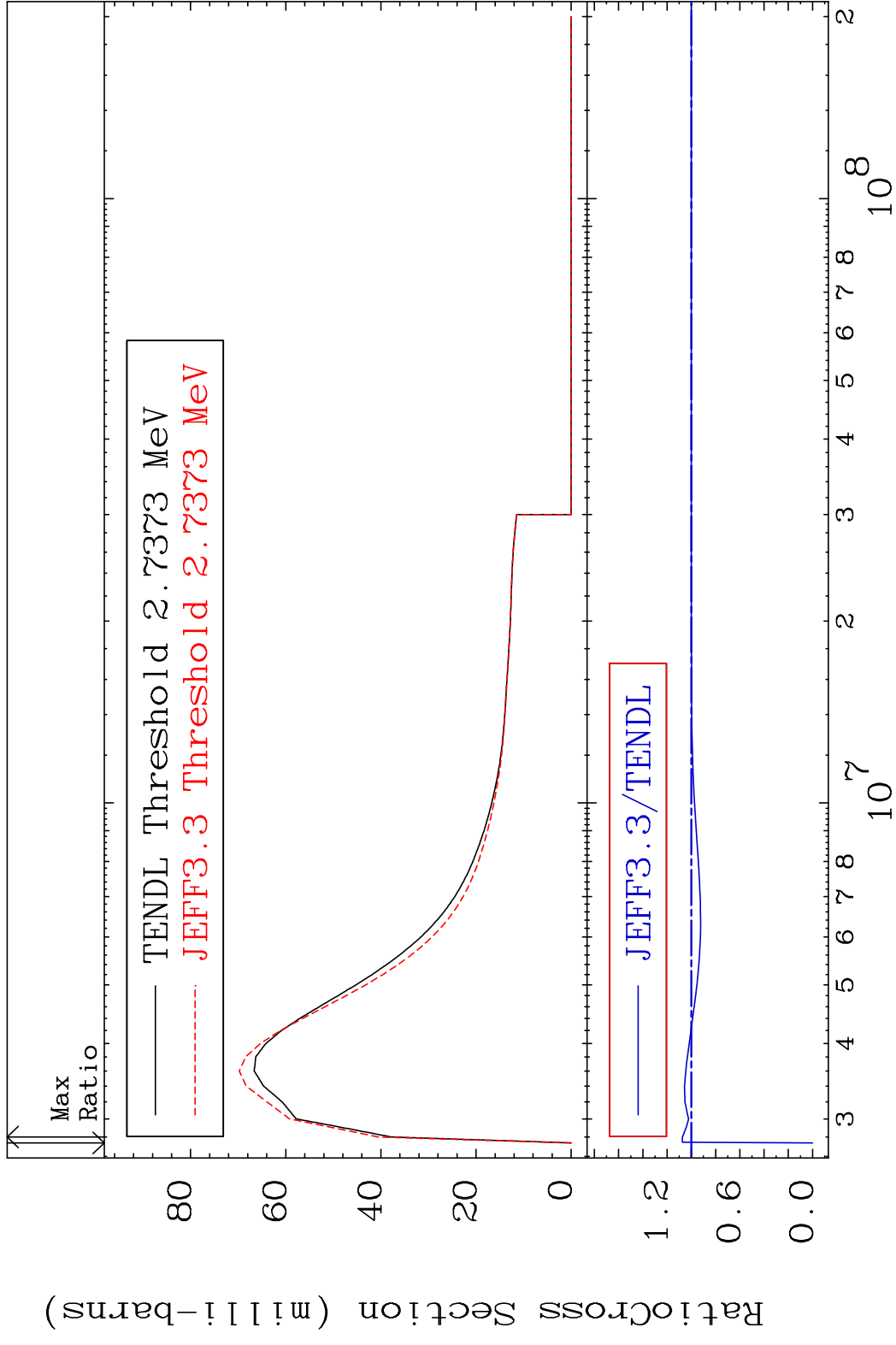
MAT 2519 MT= 59 (n, n') Level 25-Mn-53
 Cross Section -99.99 To 6.502 %



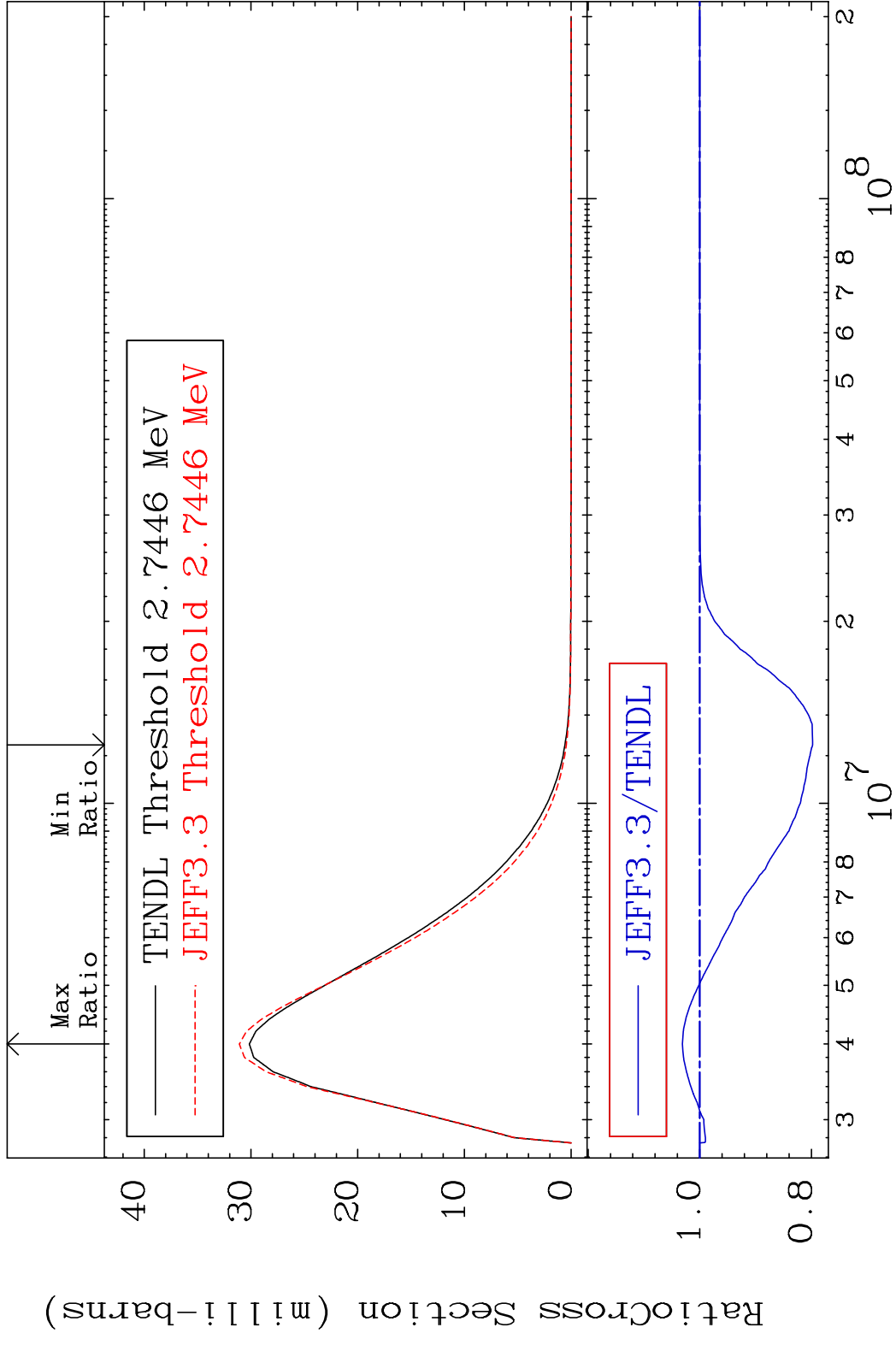
MAT 2519 MT= 60 (n, n') Level 25-Mn-53
 Cross Section -29.36 To 0.000 %



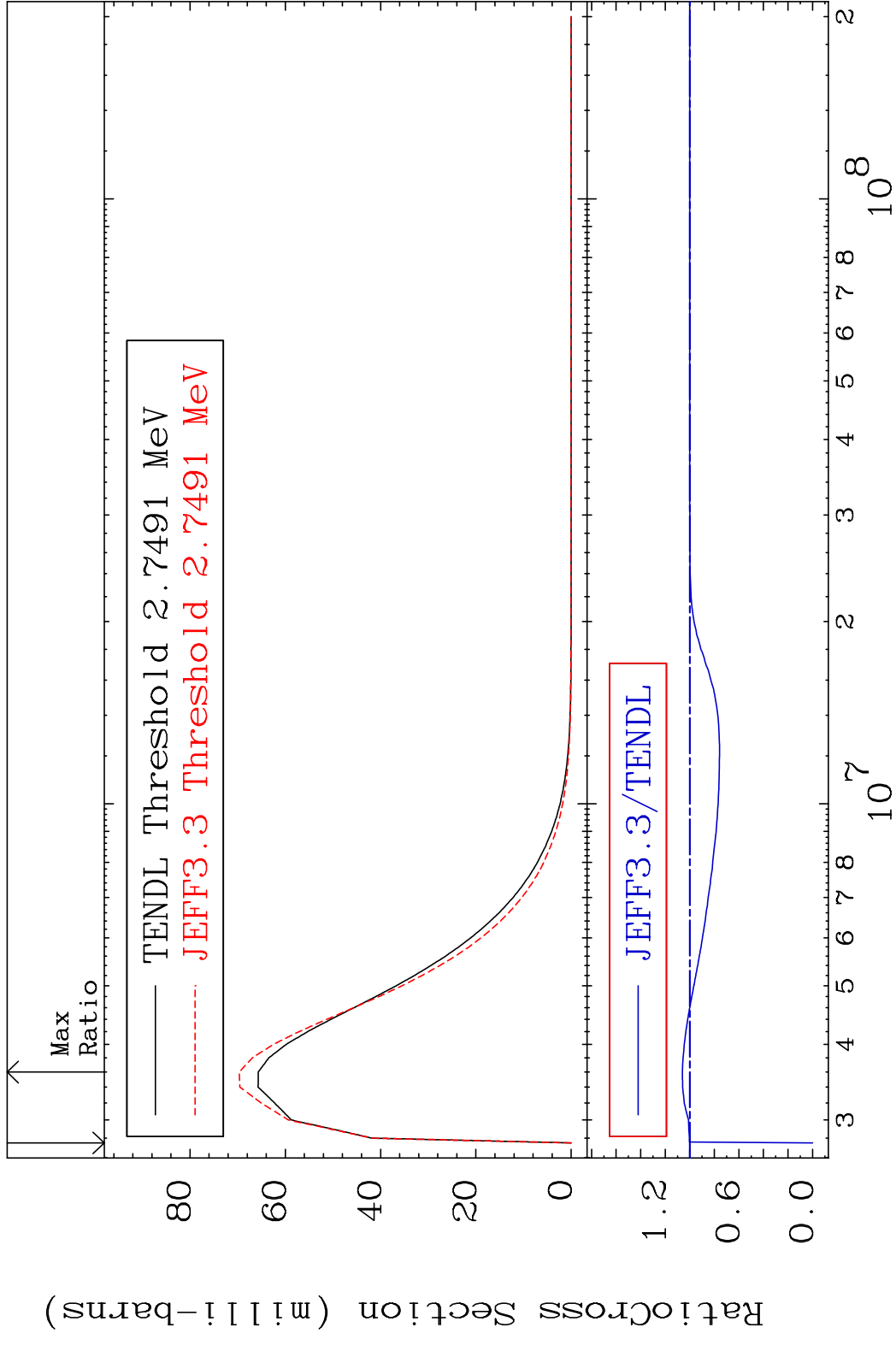
MAT 2519 MT= 61 (n, n') Level 25-Mn-53
 Cross Section -100.0 To 7.432 %



MAT 2519 MT= 62 (n, n') Level 25-Mn-53
 Cross Section -20.21 To 3.115 %

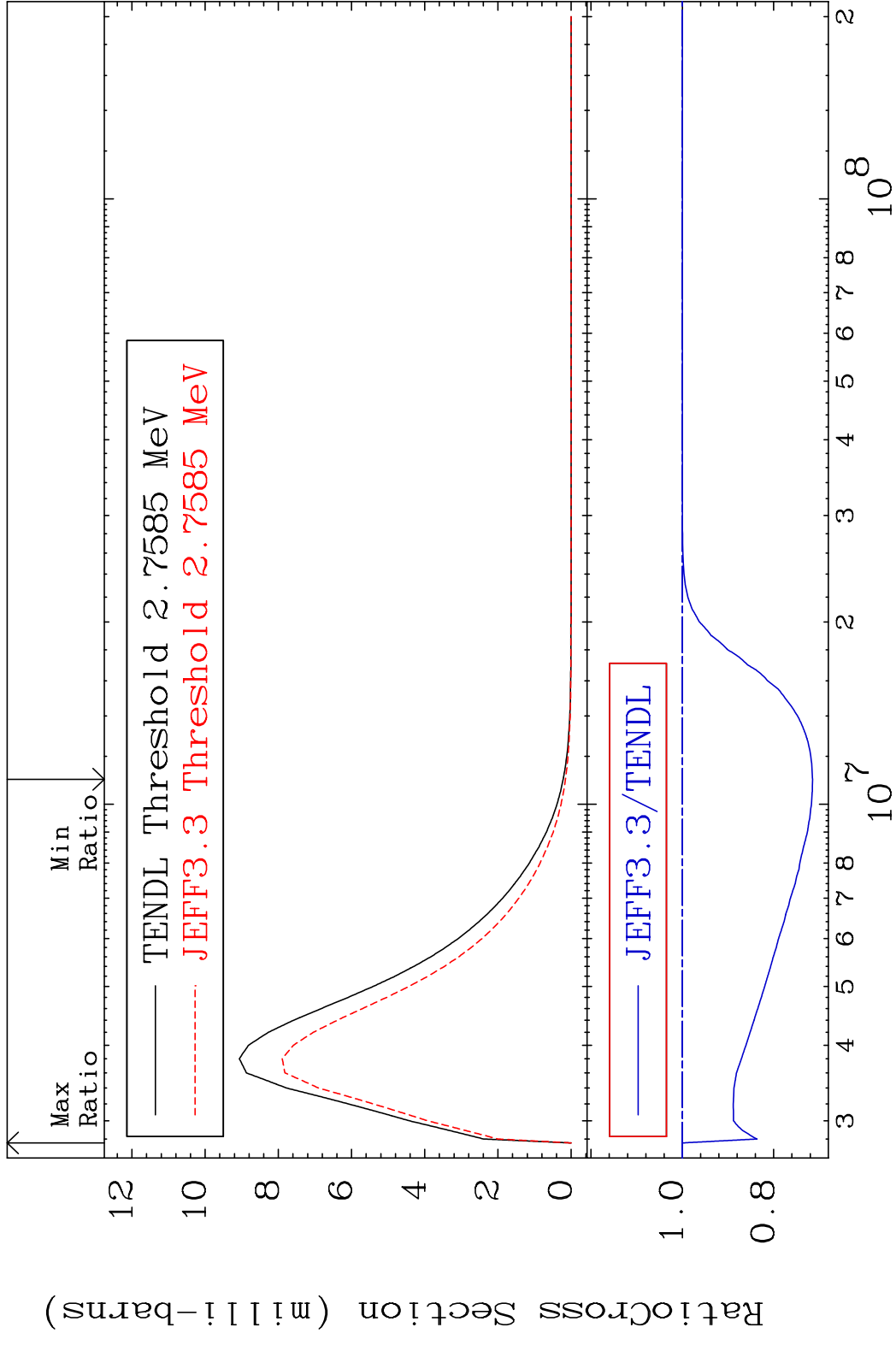


MAT 2519 MT= 63 (n, n') Level 25-Mn-53
 Cross Section -100.0 To 6.060 %

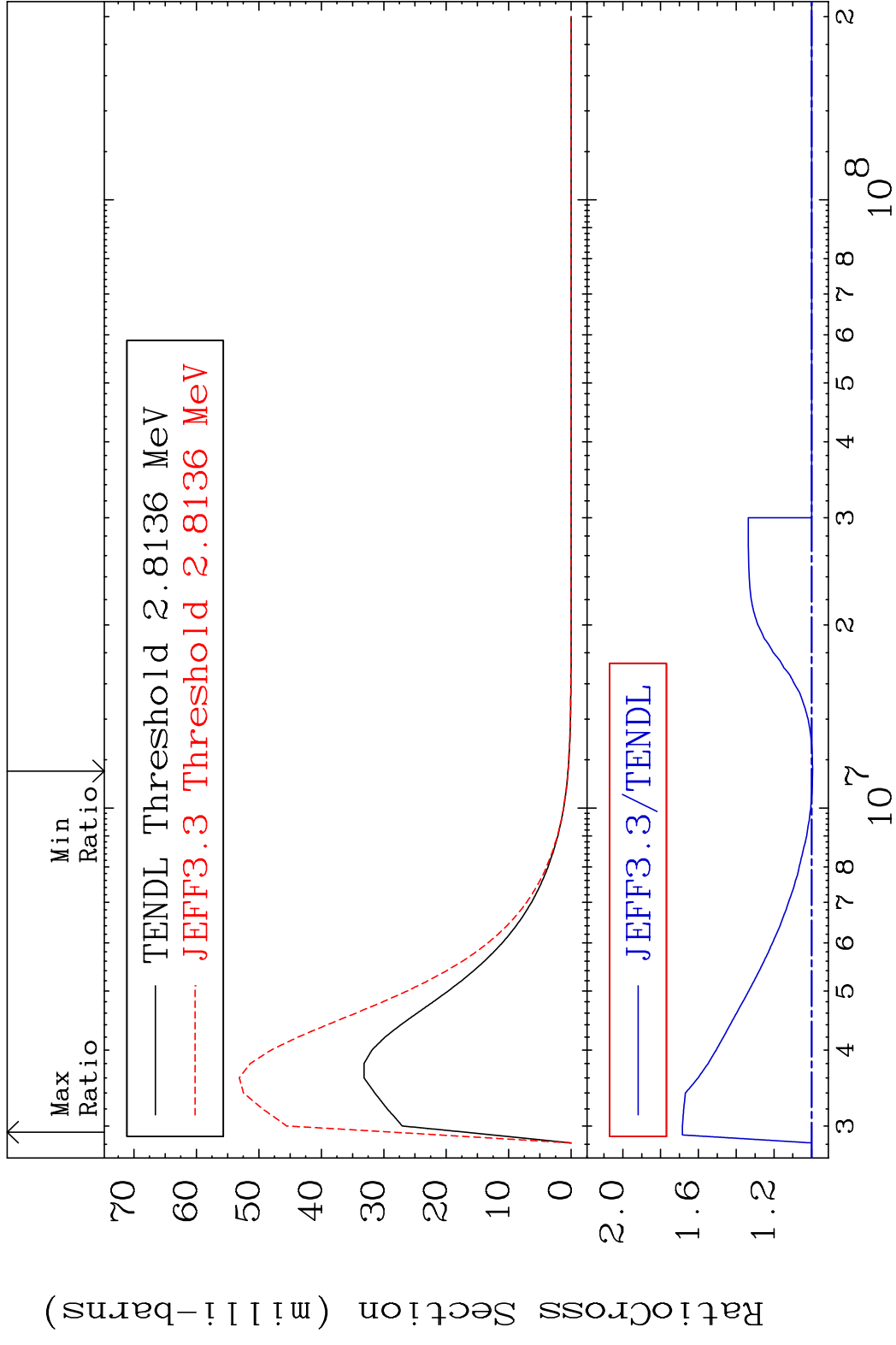


30 Incident Energy (eV) 25-Mn-53

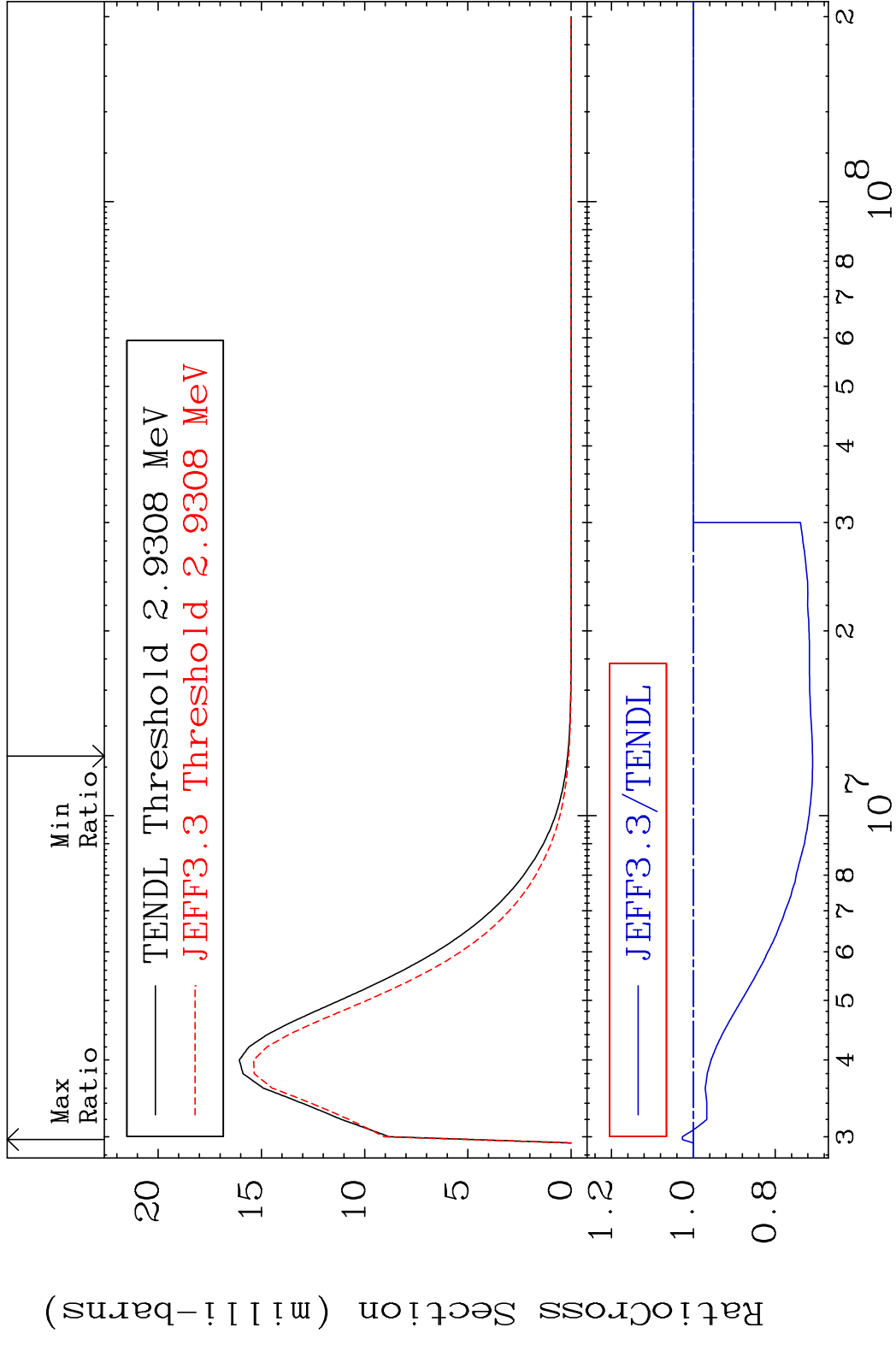
MAT 2519 MT= 64 (n,n') Level 25-Mn-53
 Cross Section -28.51 To 0.000 %



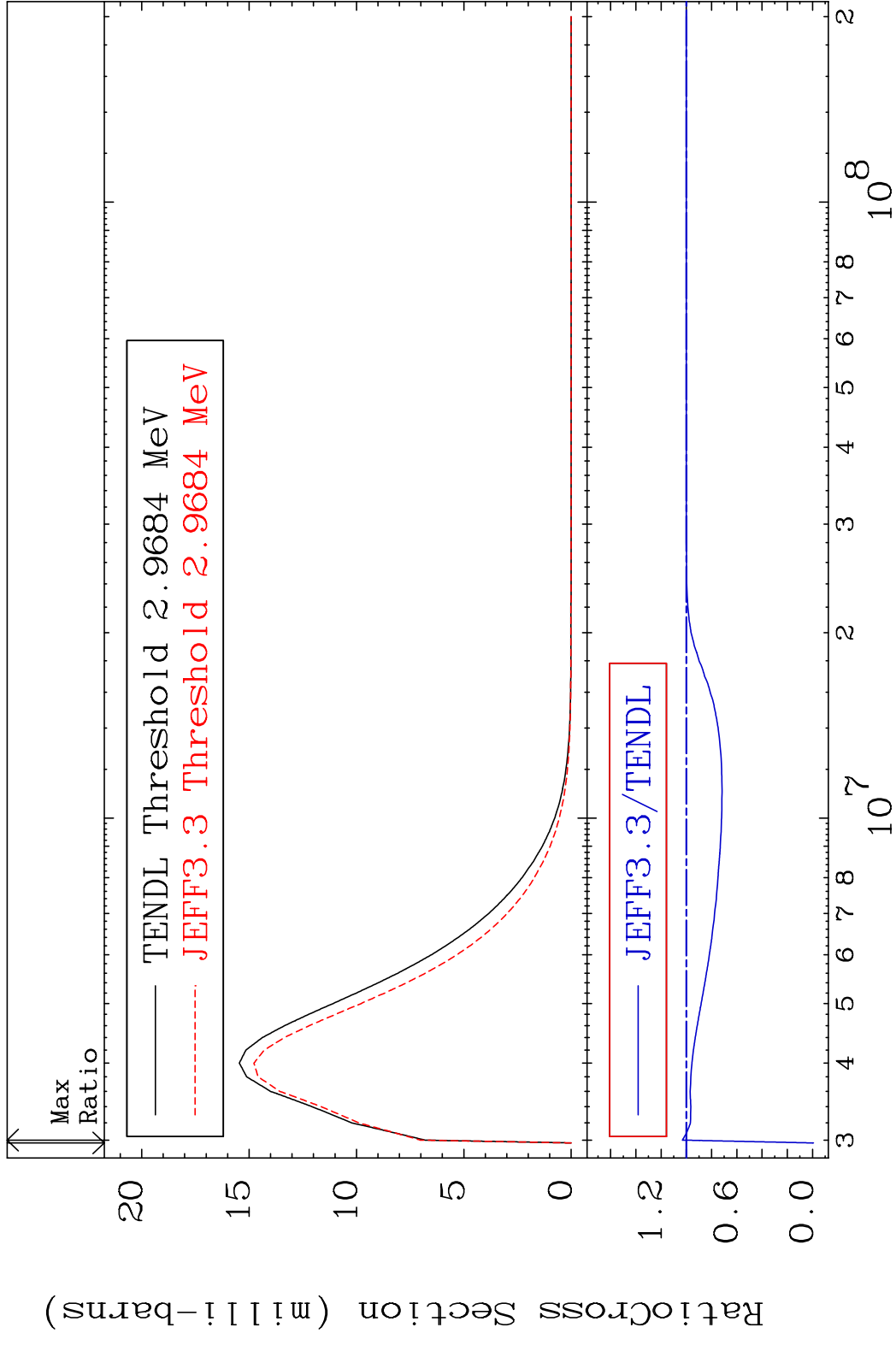
MAT 2519 MT= 65 (n, n') Level 25-Mn-53
 Cross Section -0.412 To 68.49 %



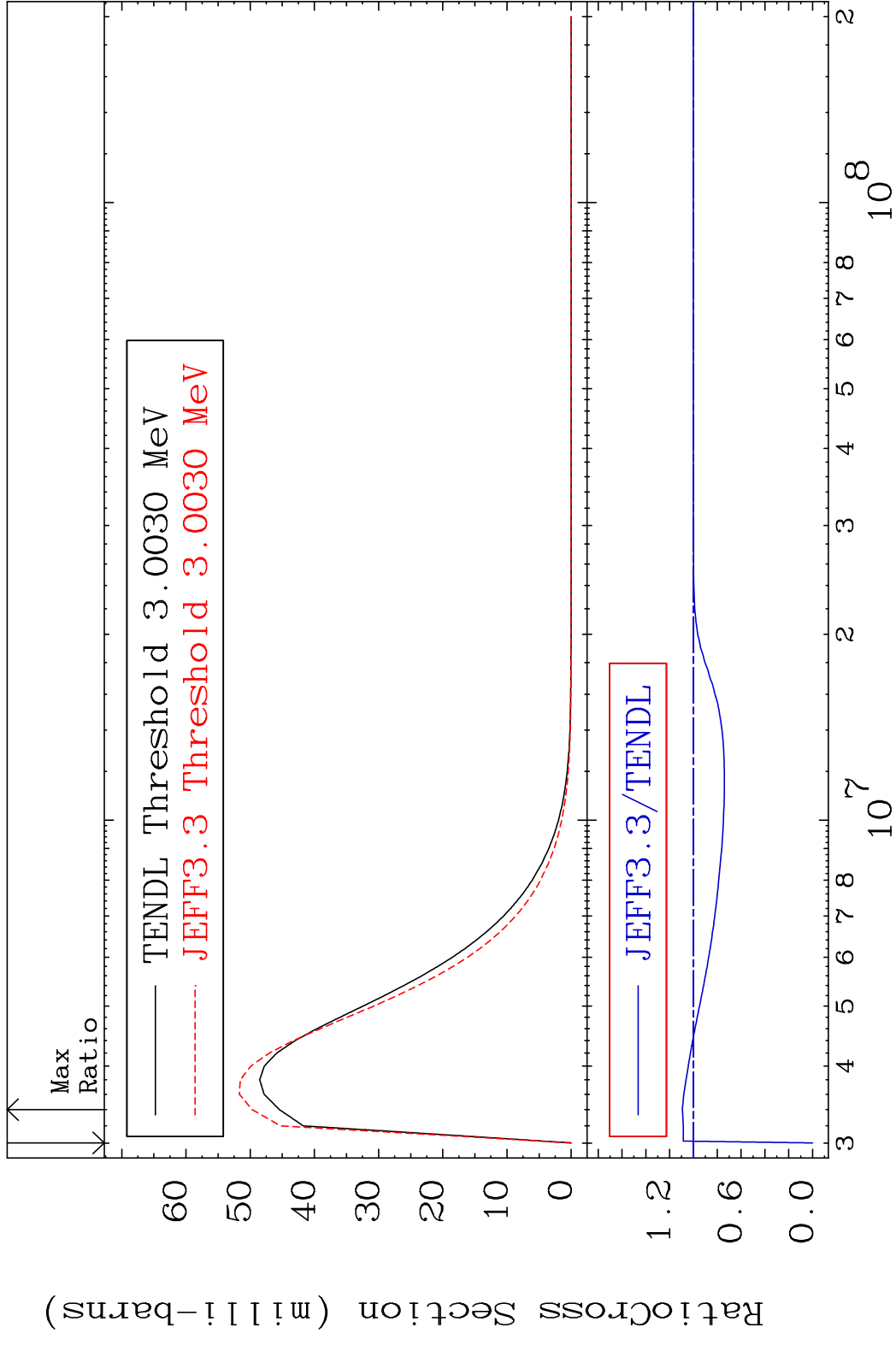
MAT 2519 MT= 66 (n, n') Level 25-Mn-53
 Cross Section -29.14 To 2.674 %



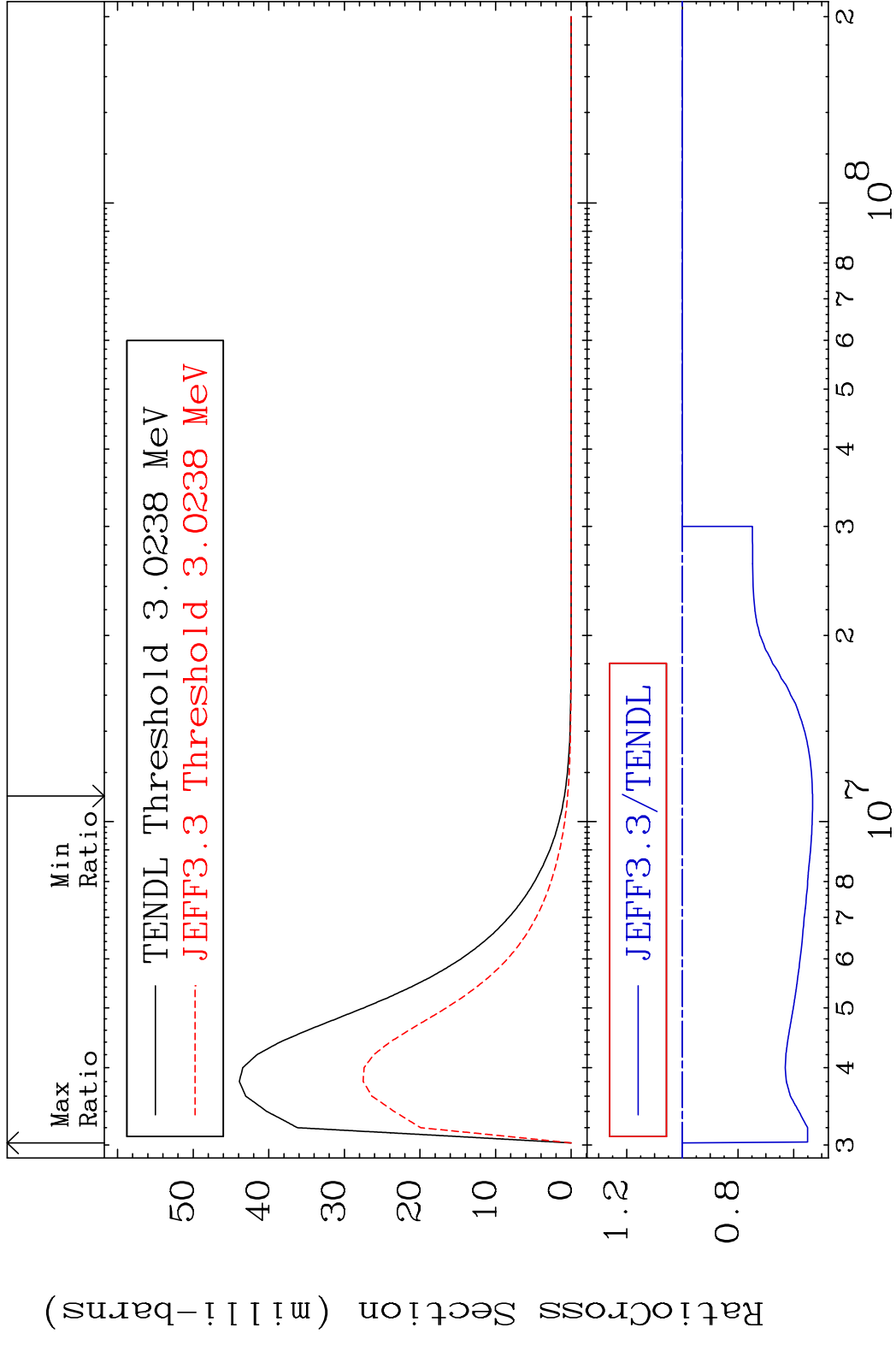
MAT 2519 MT= 67 (n, n') Level 25-Mn-53
 Cross Section -100.0 To 3.153 %



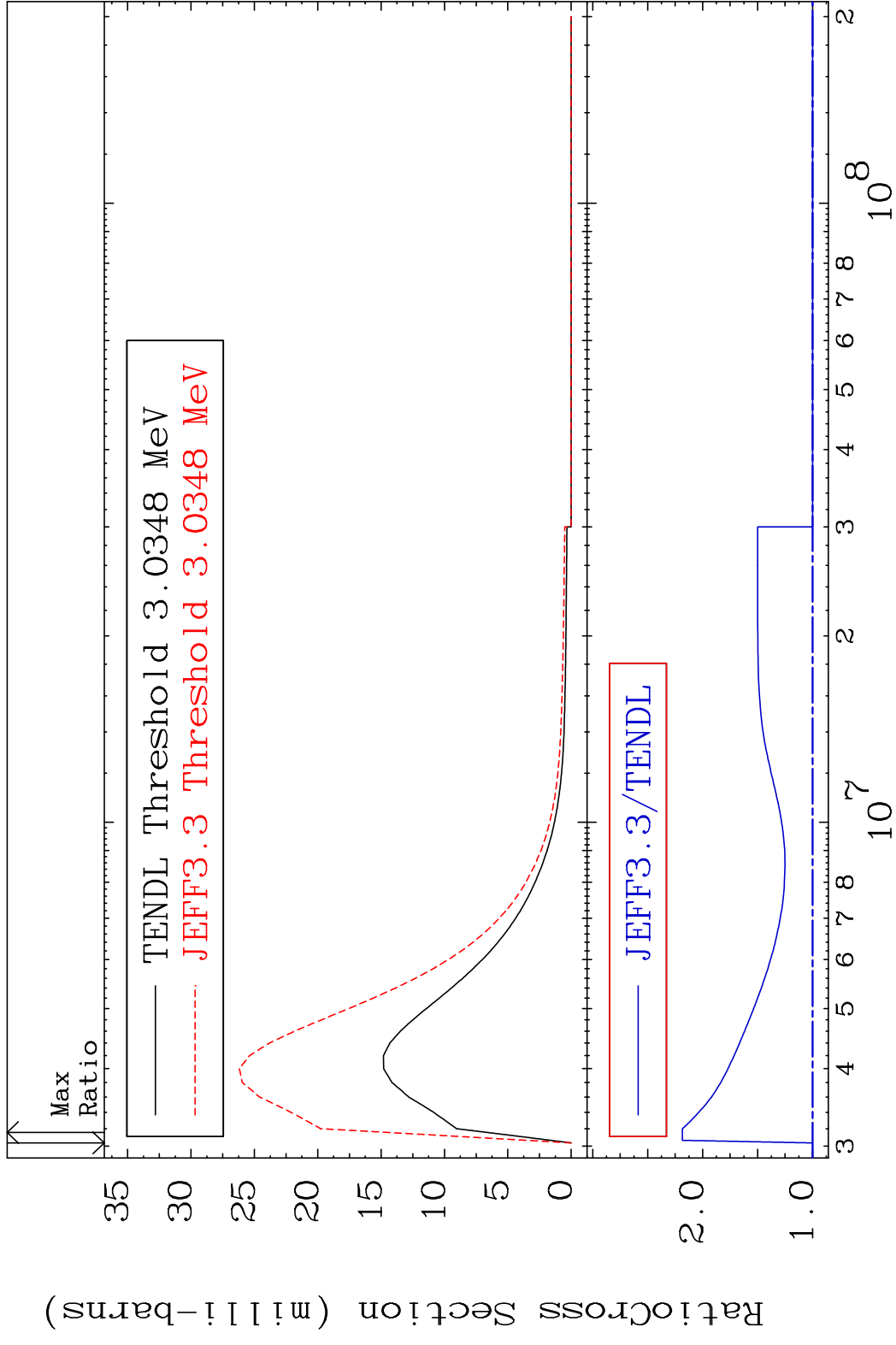
MAT 2519 MT= 68 (n, n') Level 25-Mn-53
 Cross Section -100.0 To 9.315 %



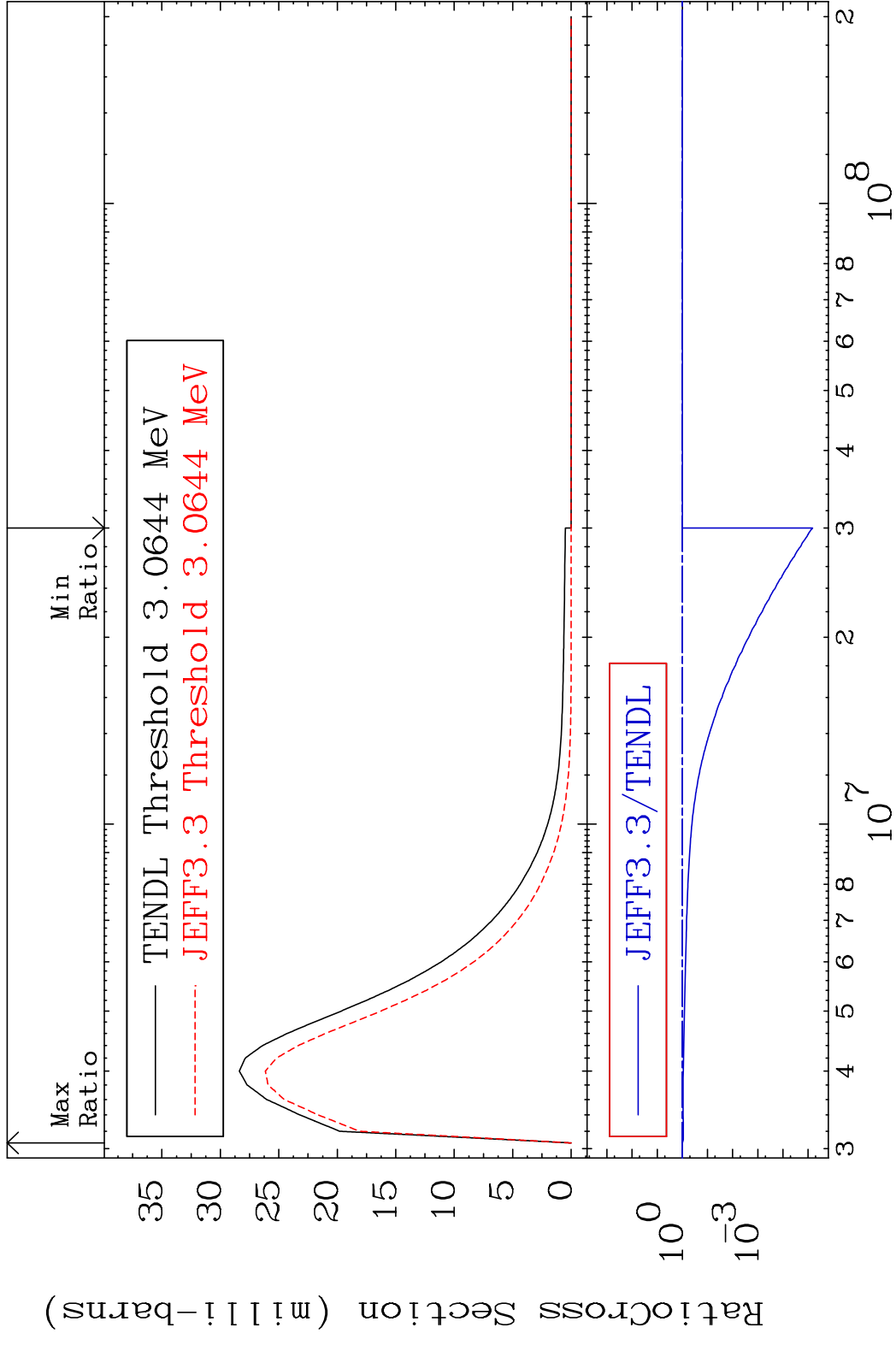
MAT 2519 MT= 69 (n, n') Level 25-Mn-53
 Cross Section -46.74 To 0.000 %



MAT 2519 MT= 70 (n, n') Level 25-Mn-53
 Cross Section 0.000 To 118.5 %

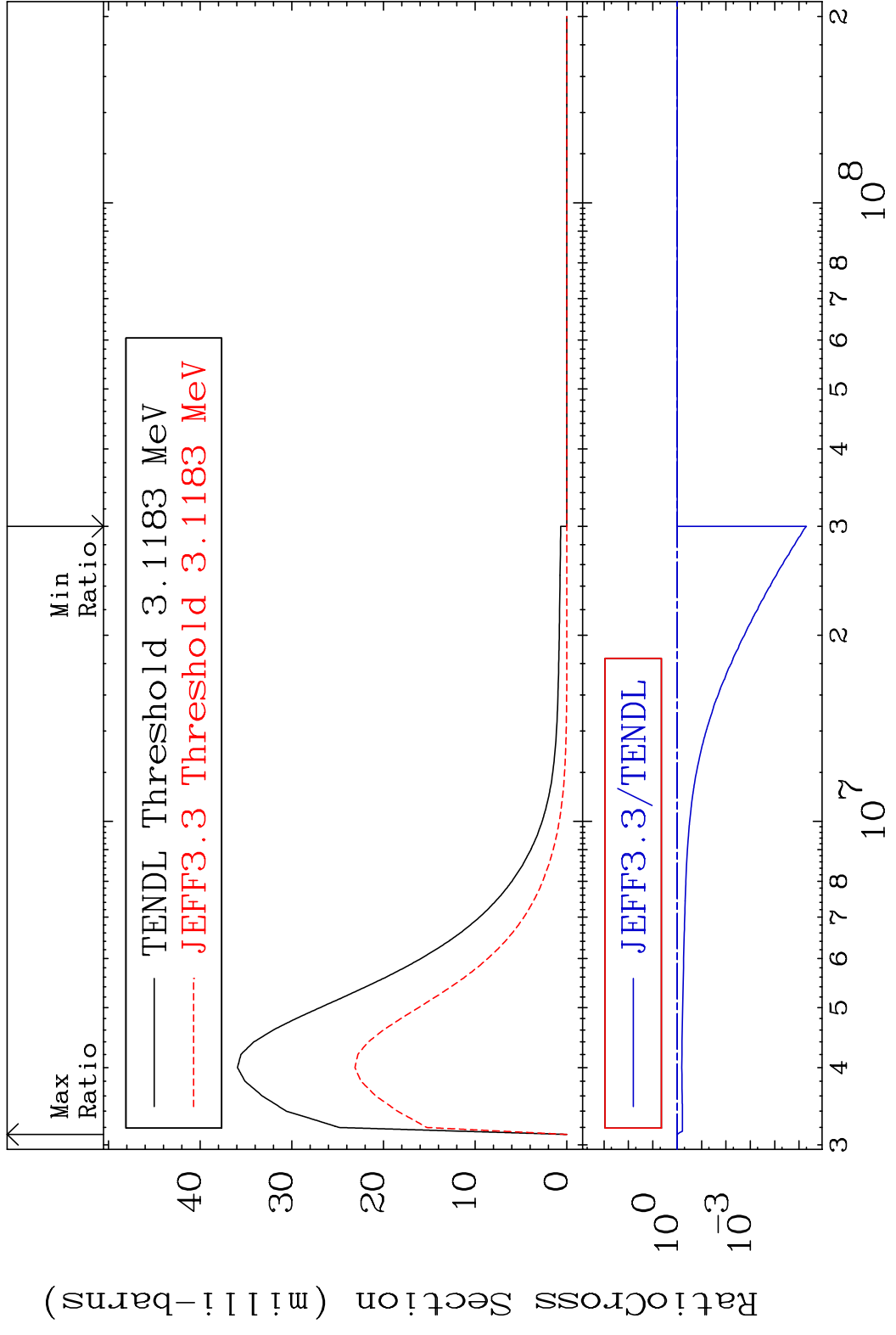


MAT 2519 MT= 71 (n, n') Level 25-Mn-53
 Cross Section -100.0 To 0.000 %

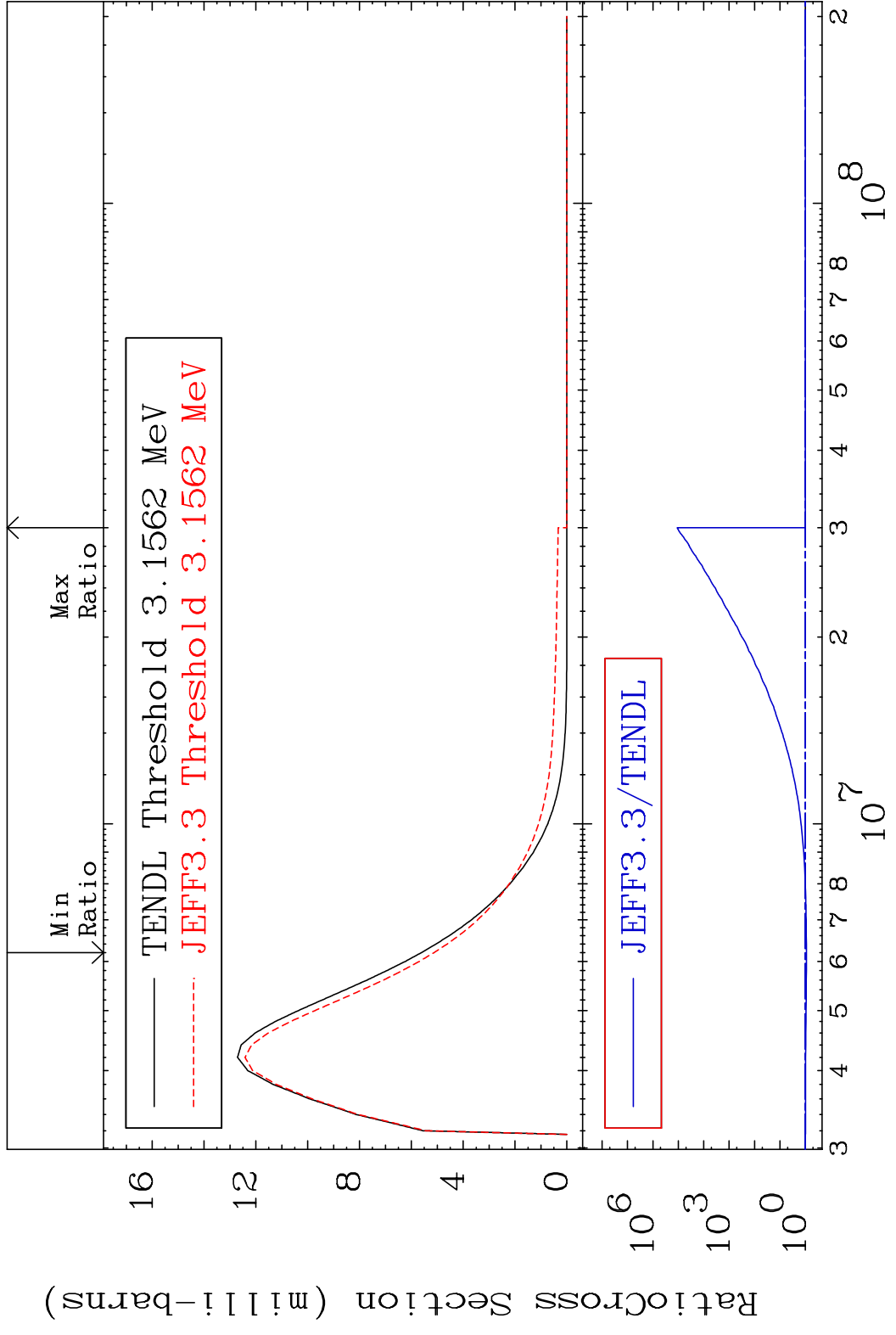


38 Incident Energy (eV) 25-Mn-53

MAT 2519 MT= 72 (n, n') Level 25-Mn-53
 Cross Section -100.0 To 0.000 %

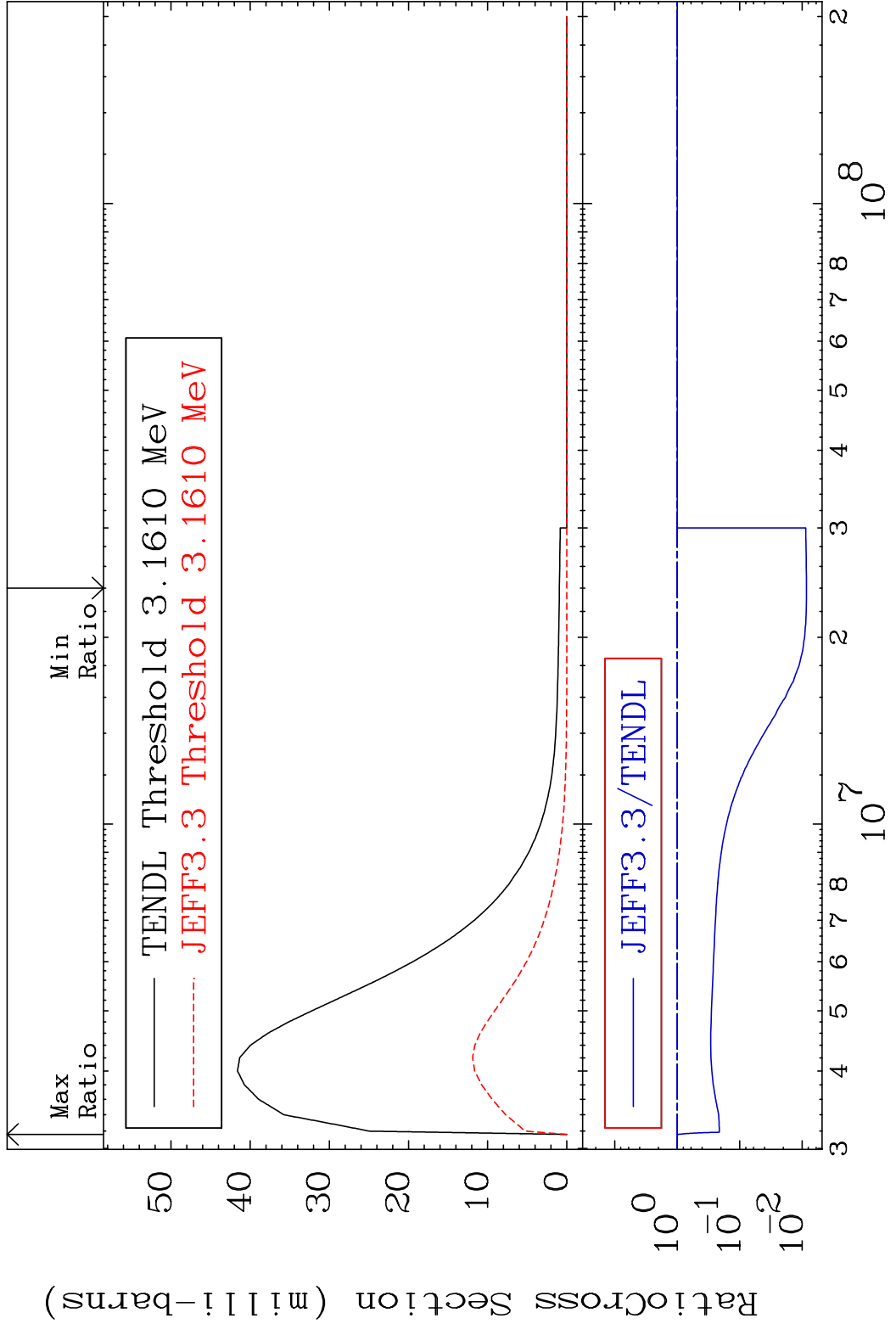


MAT 2519 MT= 73 (n, n') Level 25-Mn-53
 Cross Section -8.746 To 9999. %

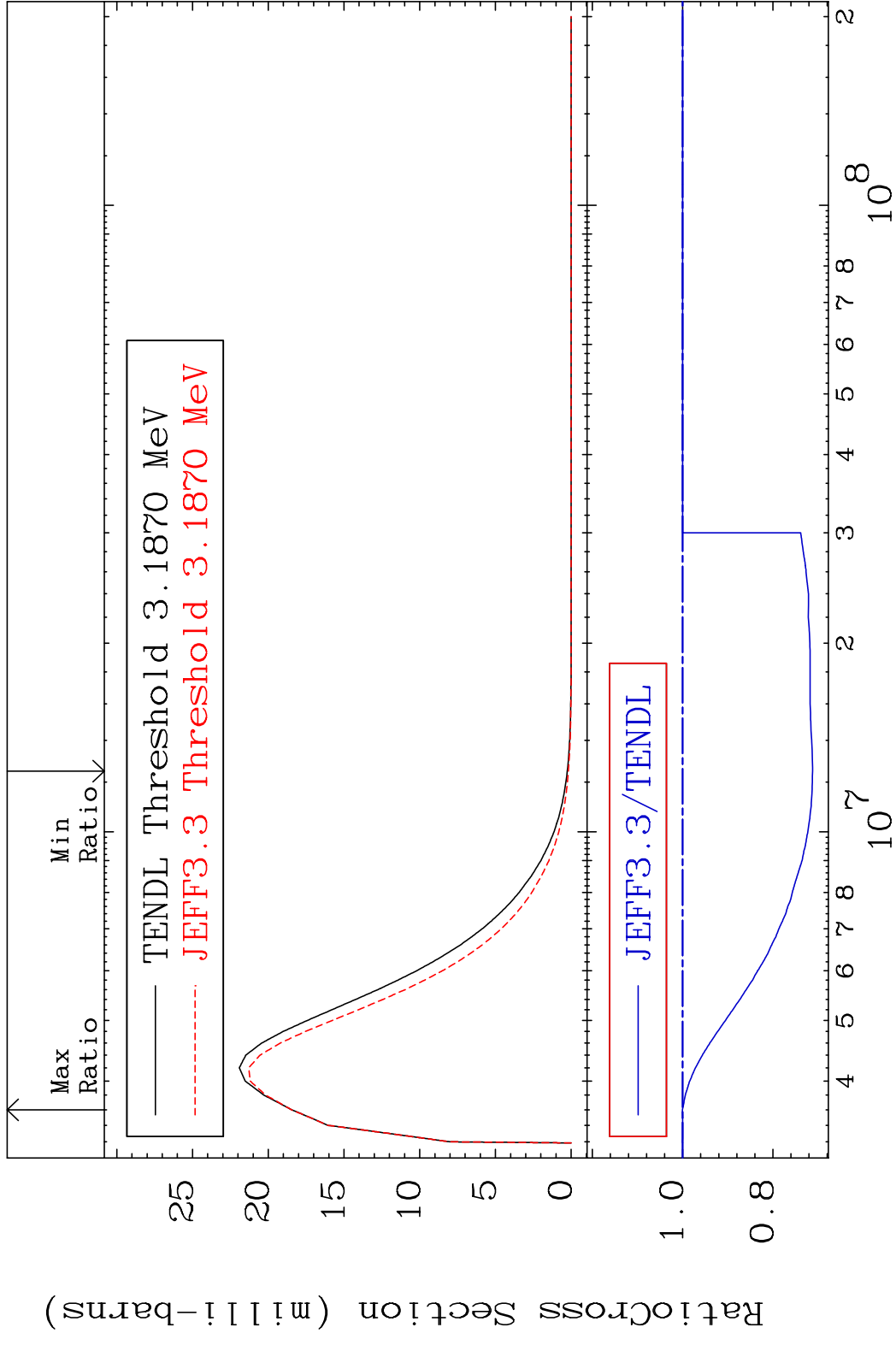


40 Incident Energy (eV) 25-Mn-53

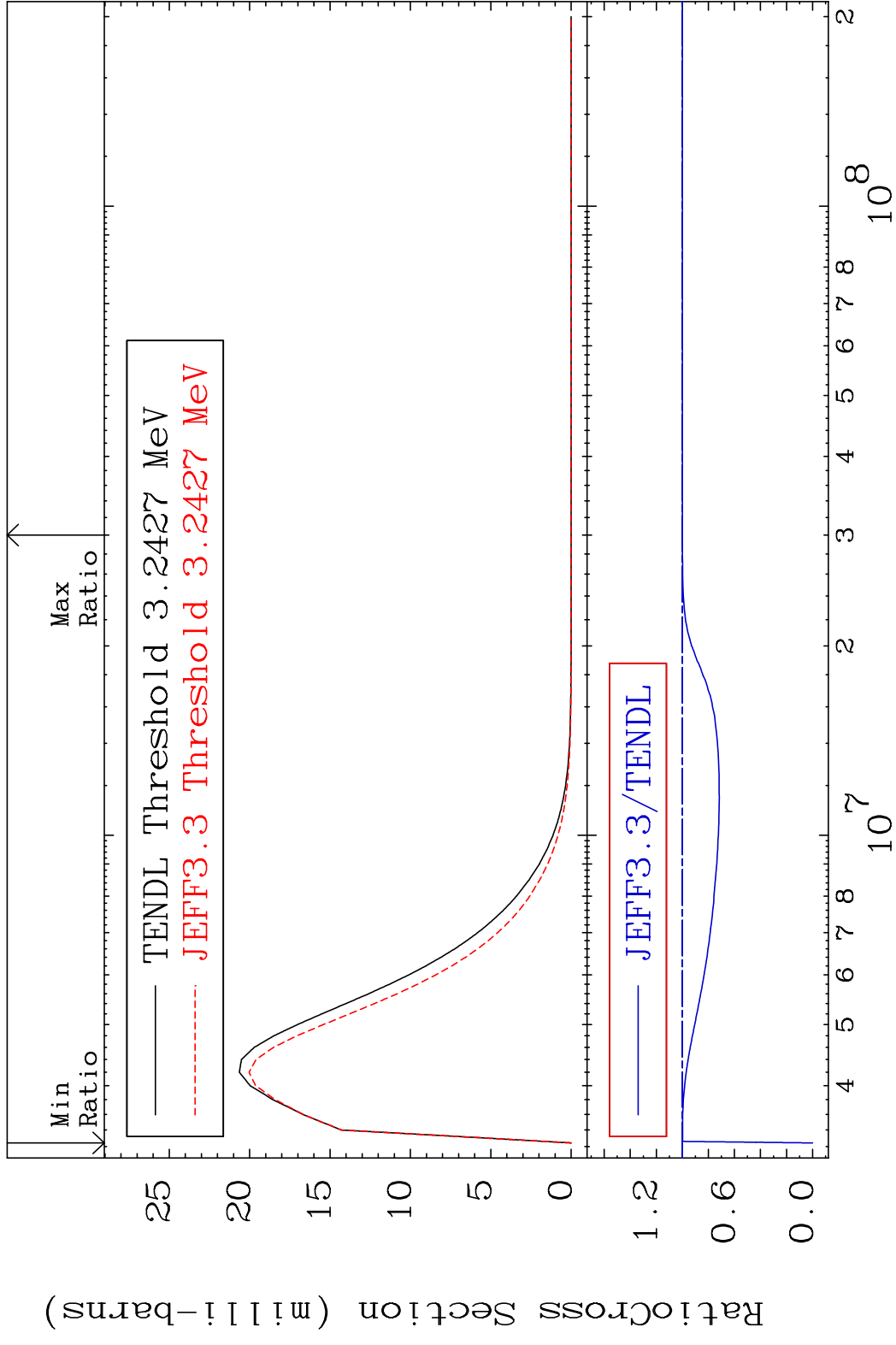
MAT 2519 MT= 74 (n, n') Level 25-Mn-53
 Cross Section -99.14 To 0.000 %



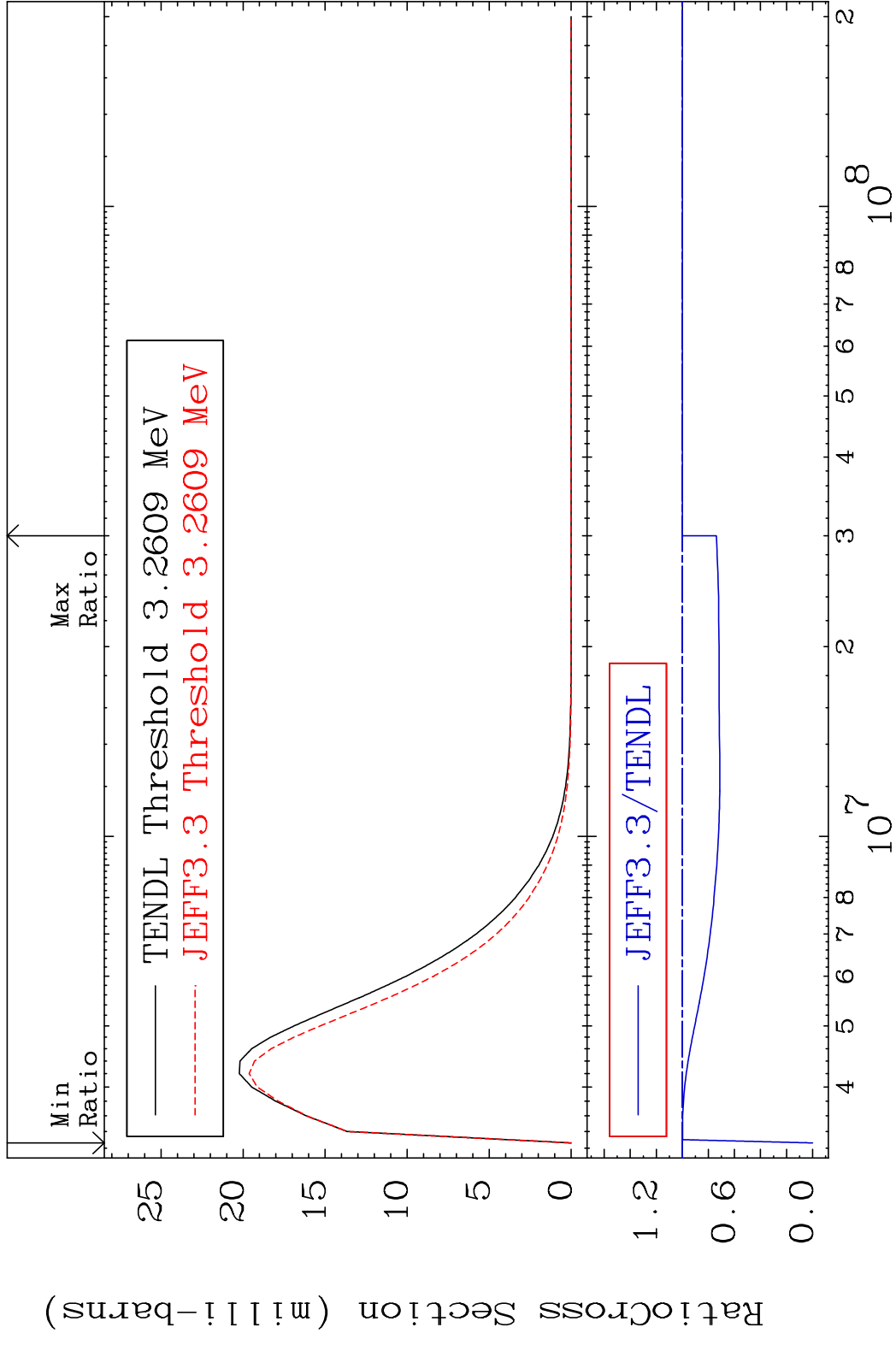
MAT 2519 MT= 75 (n,n') Level 25-Mn-53
 Cross Section -28.77 To 0.069 %



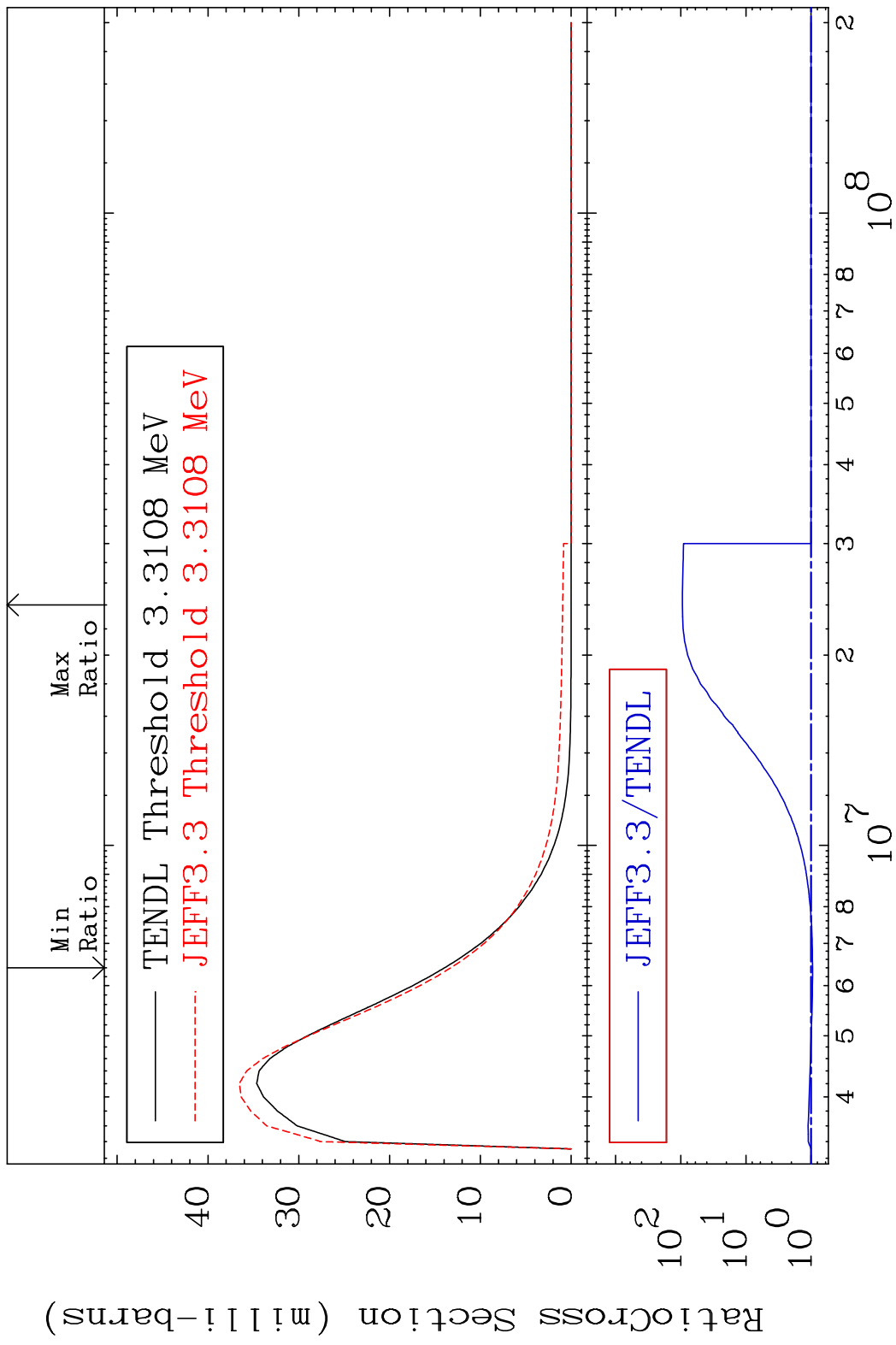
MAT 2519 MT= 76 (n, n') Level 25-Mn-53
 Cross Section -100.0 To 0.000 %



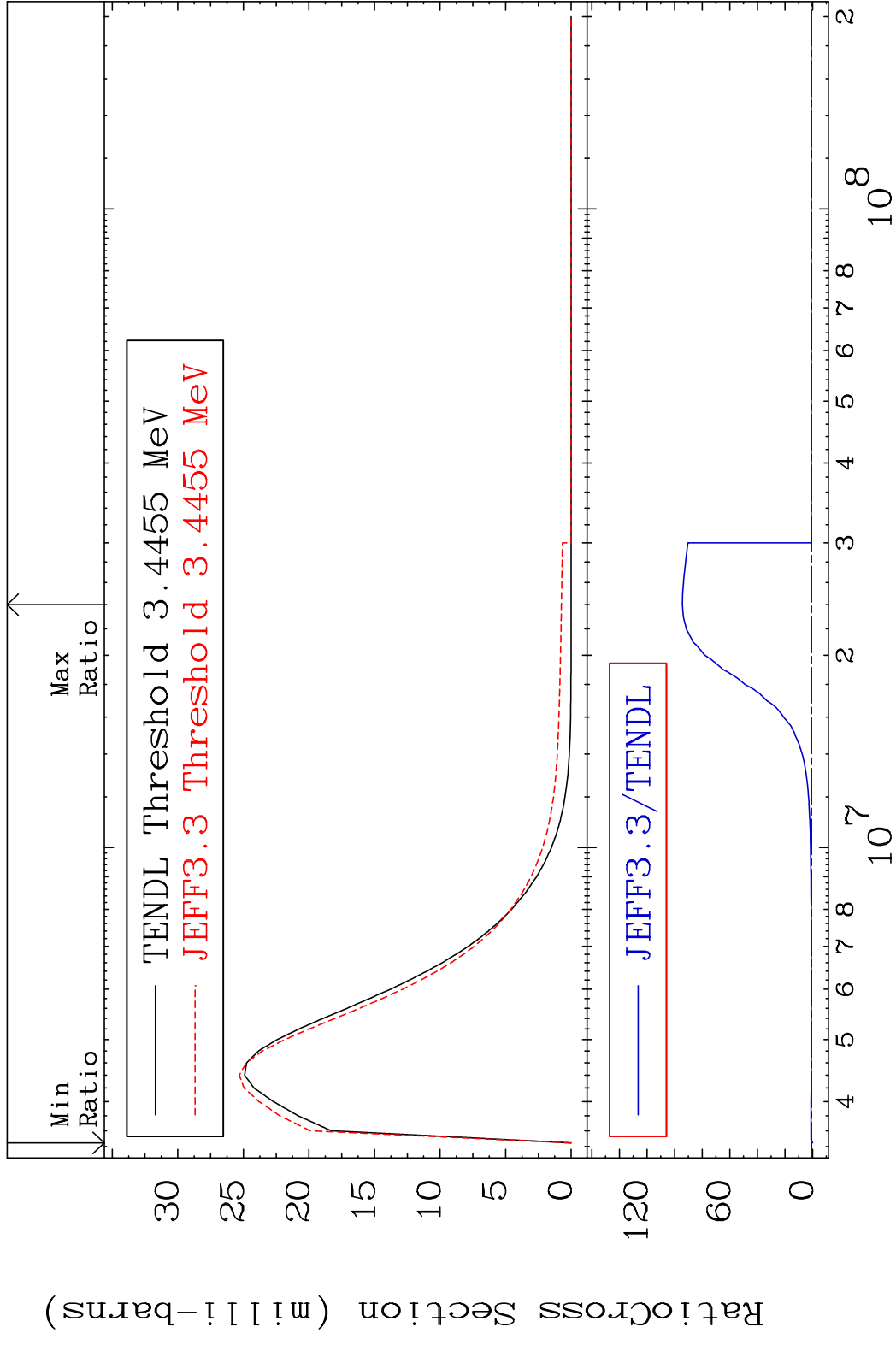
MAT 2519 MT= 77 (n, n') Level 25-Mn-53
 Cross Section -100.0 To 0.000 %



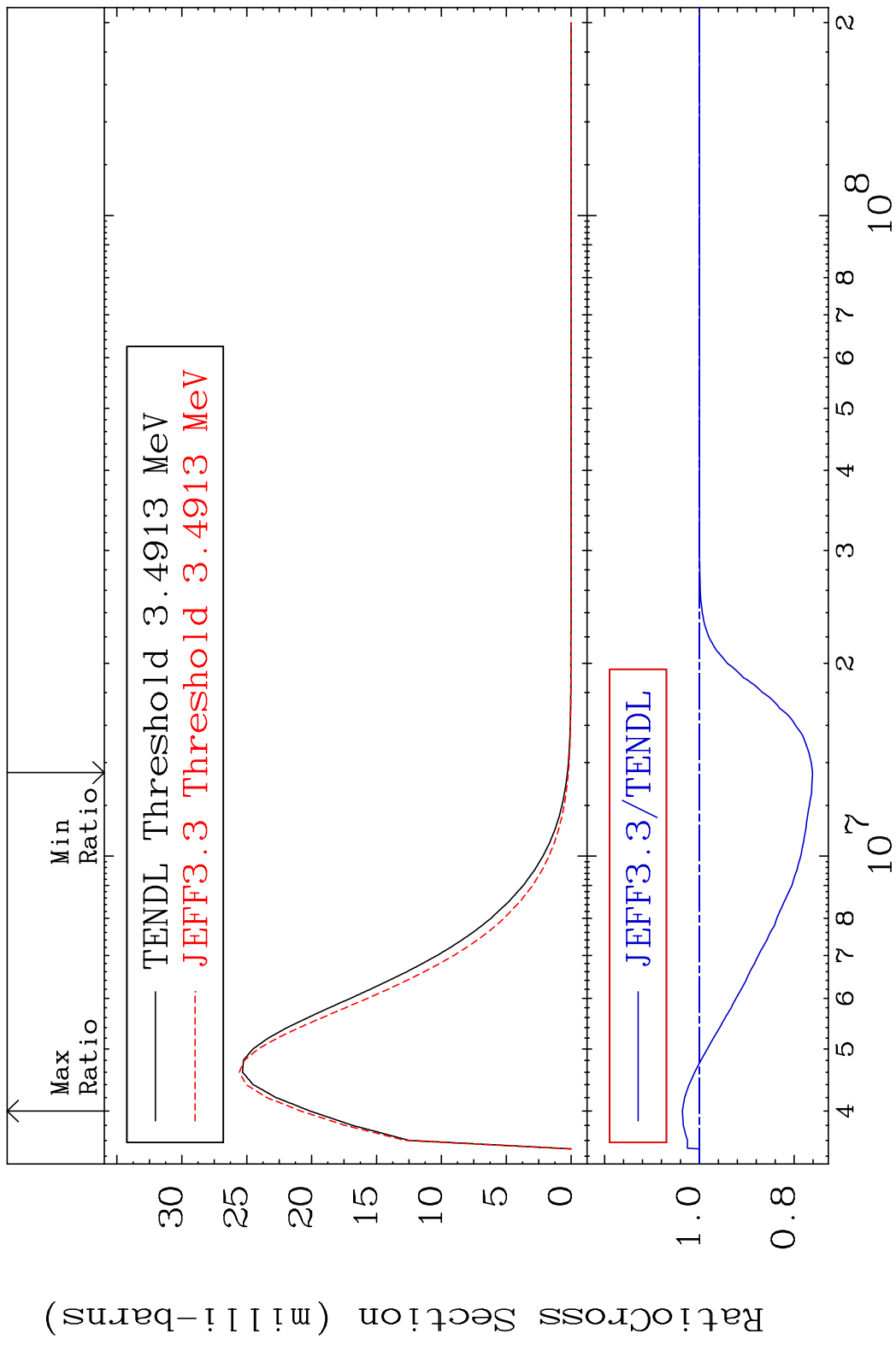
MAT 2519 MT= 78 (n, n') Level 25-Mn-53
 Cross Section -4.966 To 9374. %



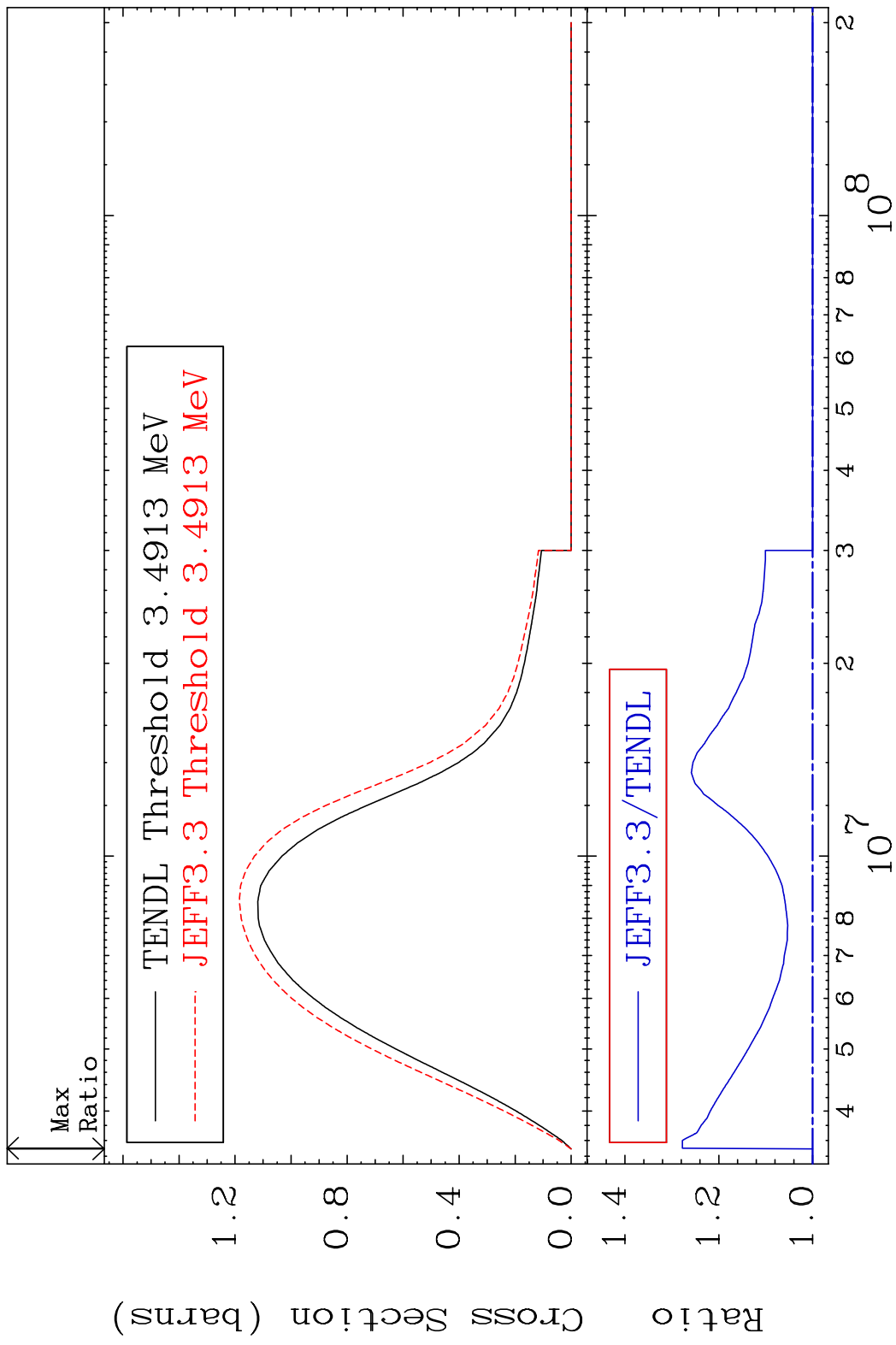
MAT 2519 MT= 79 (n, n') Level 25-Mn-53
 Cross Section -100.0 To 9338. %



MAT 2519 MT= 80 (n, n') Level 25-Mn-53
 Cross Section -23.89 To 3.600 %



MAT 2519 (n,n') Continuum 25-Mn-53
 Cross Section 0.000 To 27.77 %



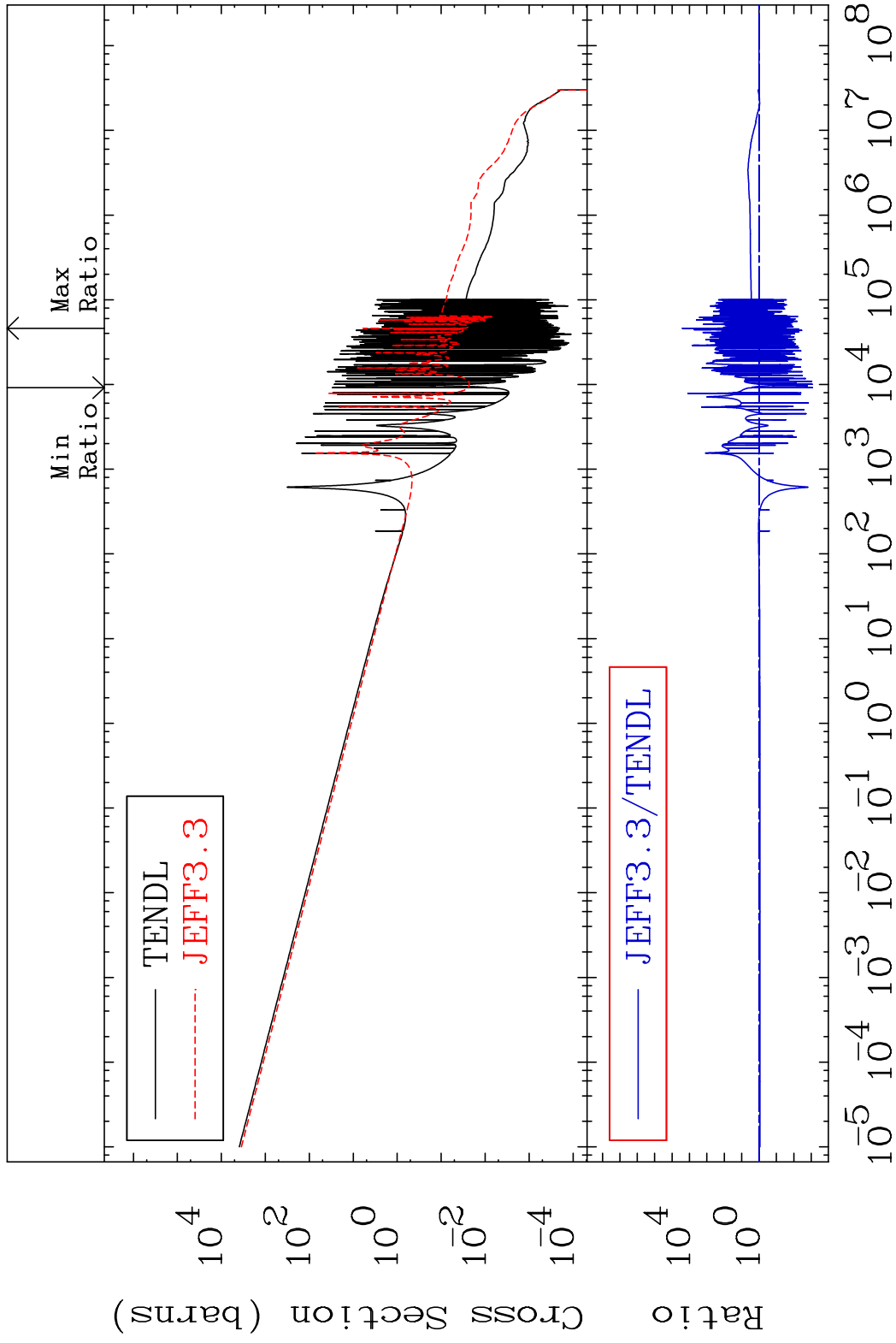
48 Incident Energy (eV) 25-Mn-53

MAT 2519

(n, γ)

25-Mn-53

Cross Section -99.92 To 9999. %



49

Incident Energy (eV)

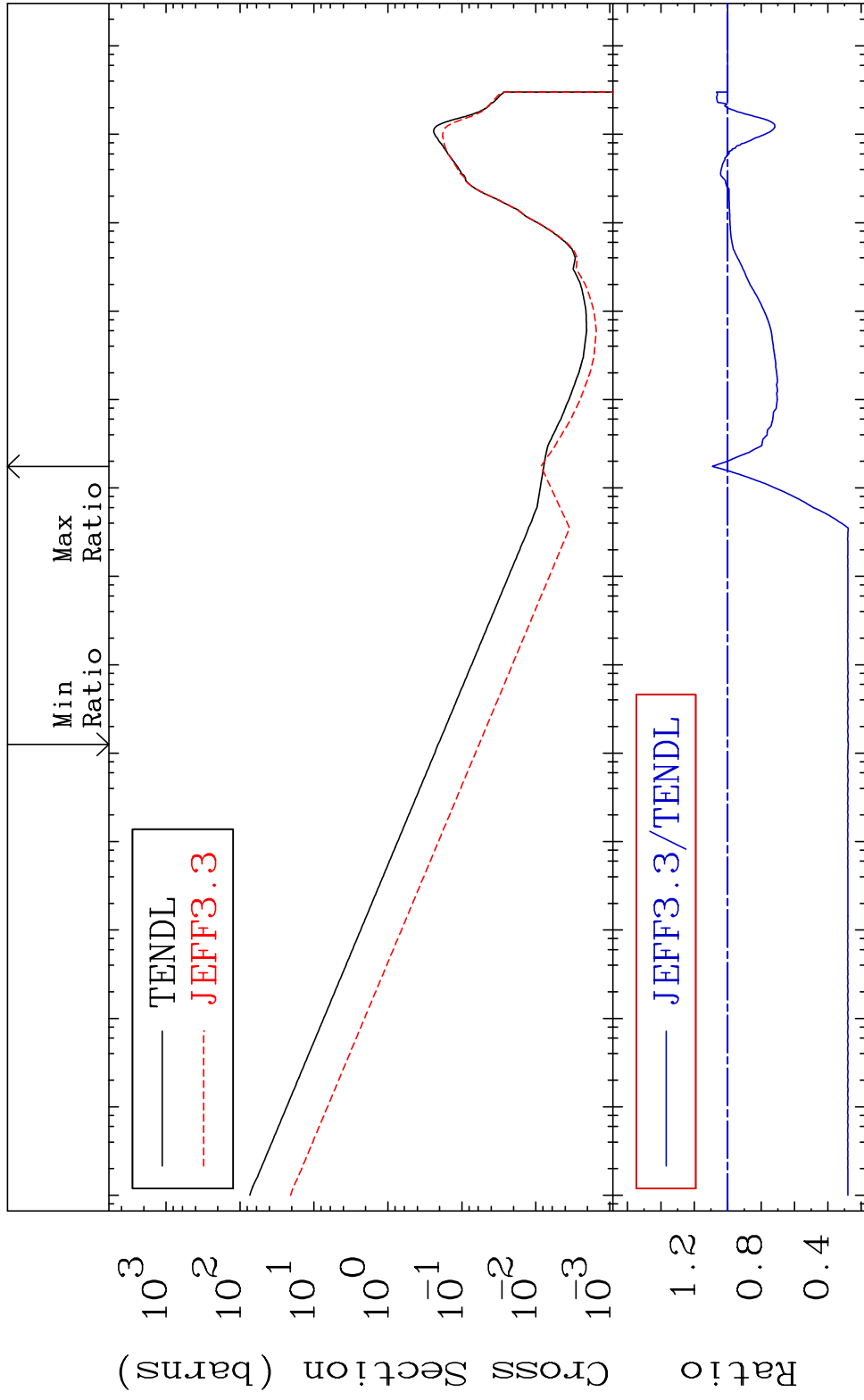
25-Mn-53

MAT 2519

(n, p)

25-Mn-53

Cross Section -72.21 To 9.178 %

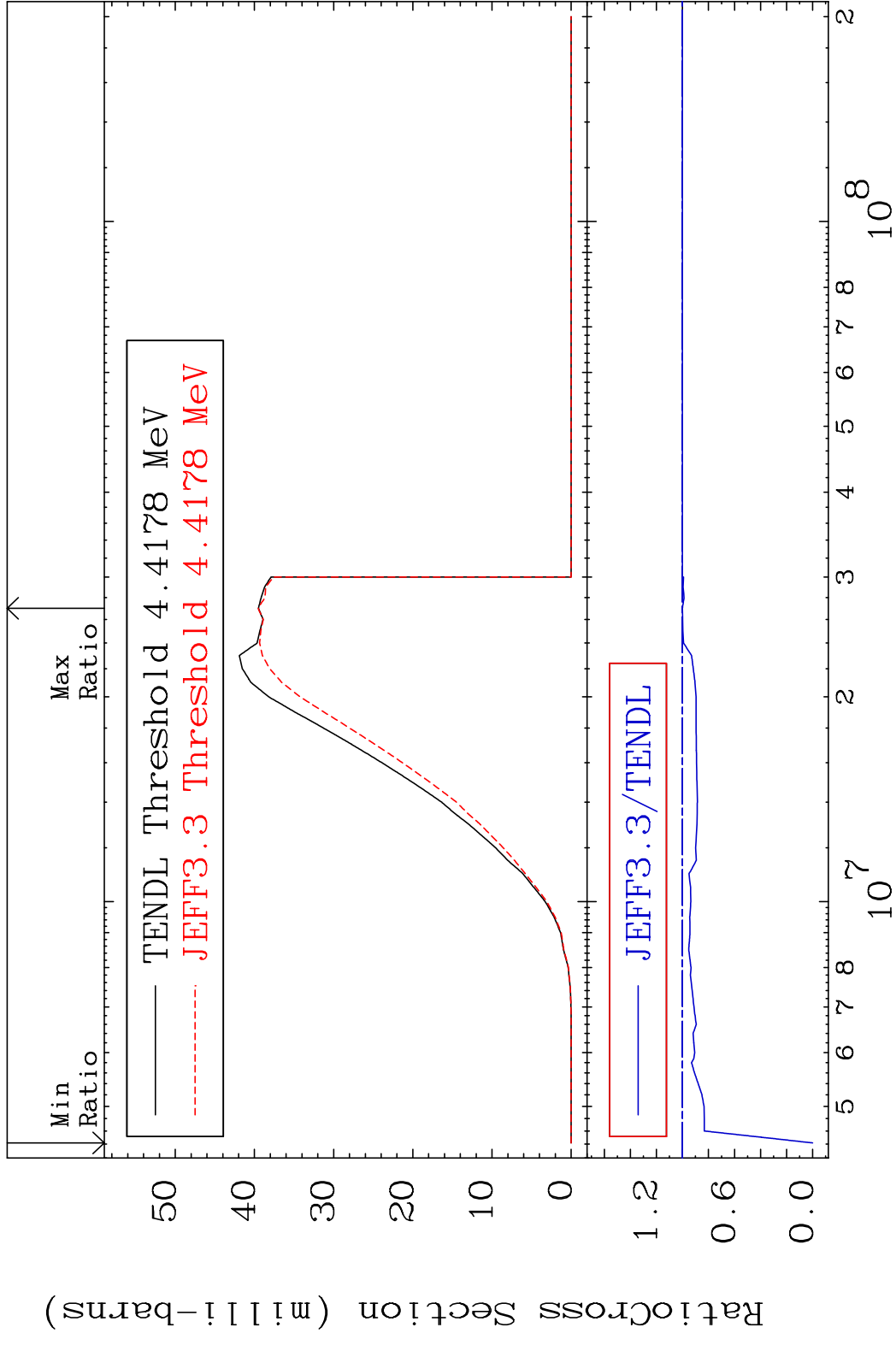


50

Incident Energy (eV)

25-Mn-53

MAT 2519 (n,d) 25-Mn-53
 Cross Section -100.0 To 0.098 %

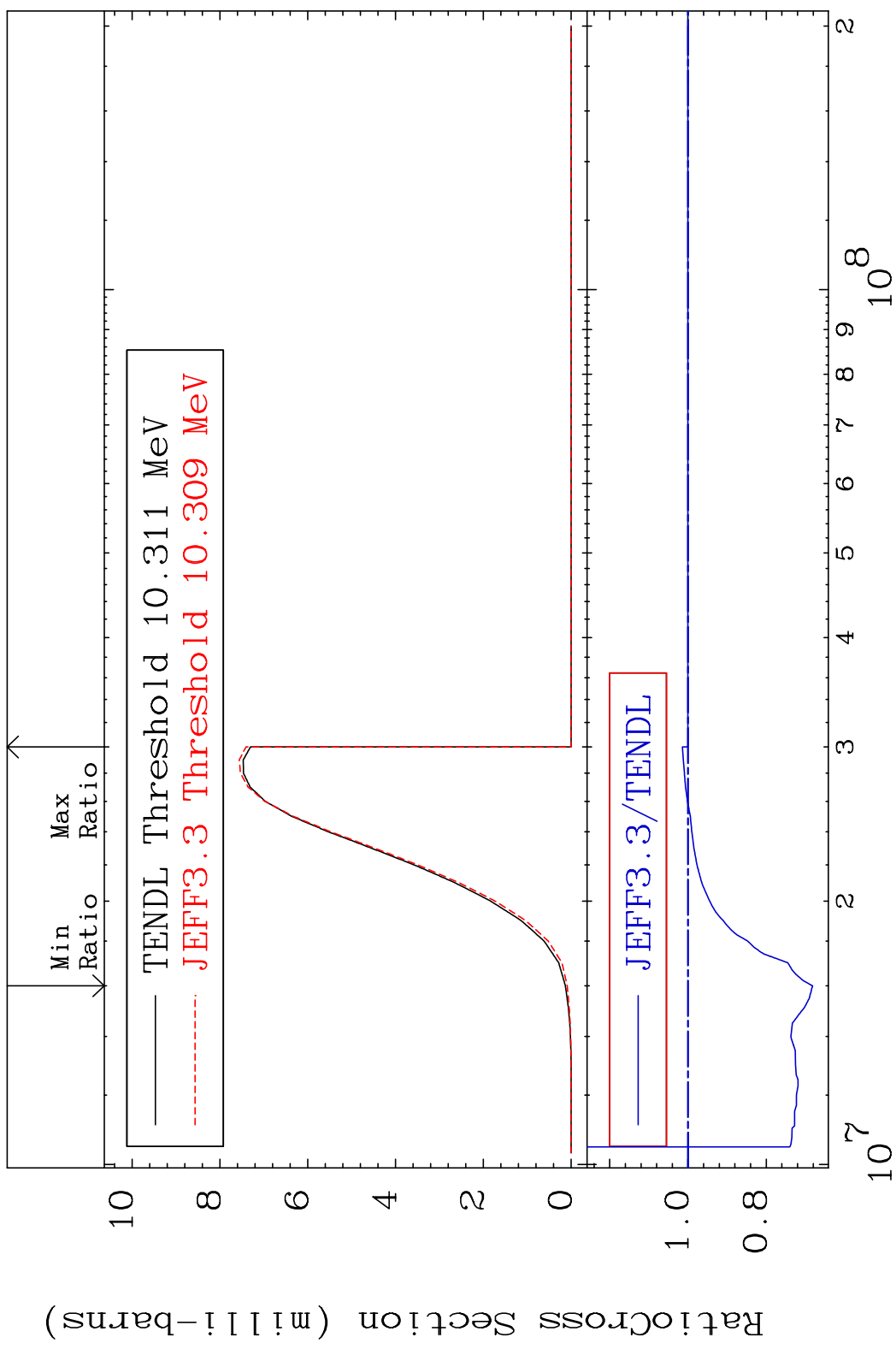


MAT 2519

(n, t)

25-Mn-53

Cross Section -31.84 To 1.433 %



52

Incident Energy (eV)

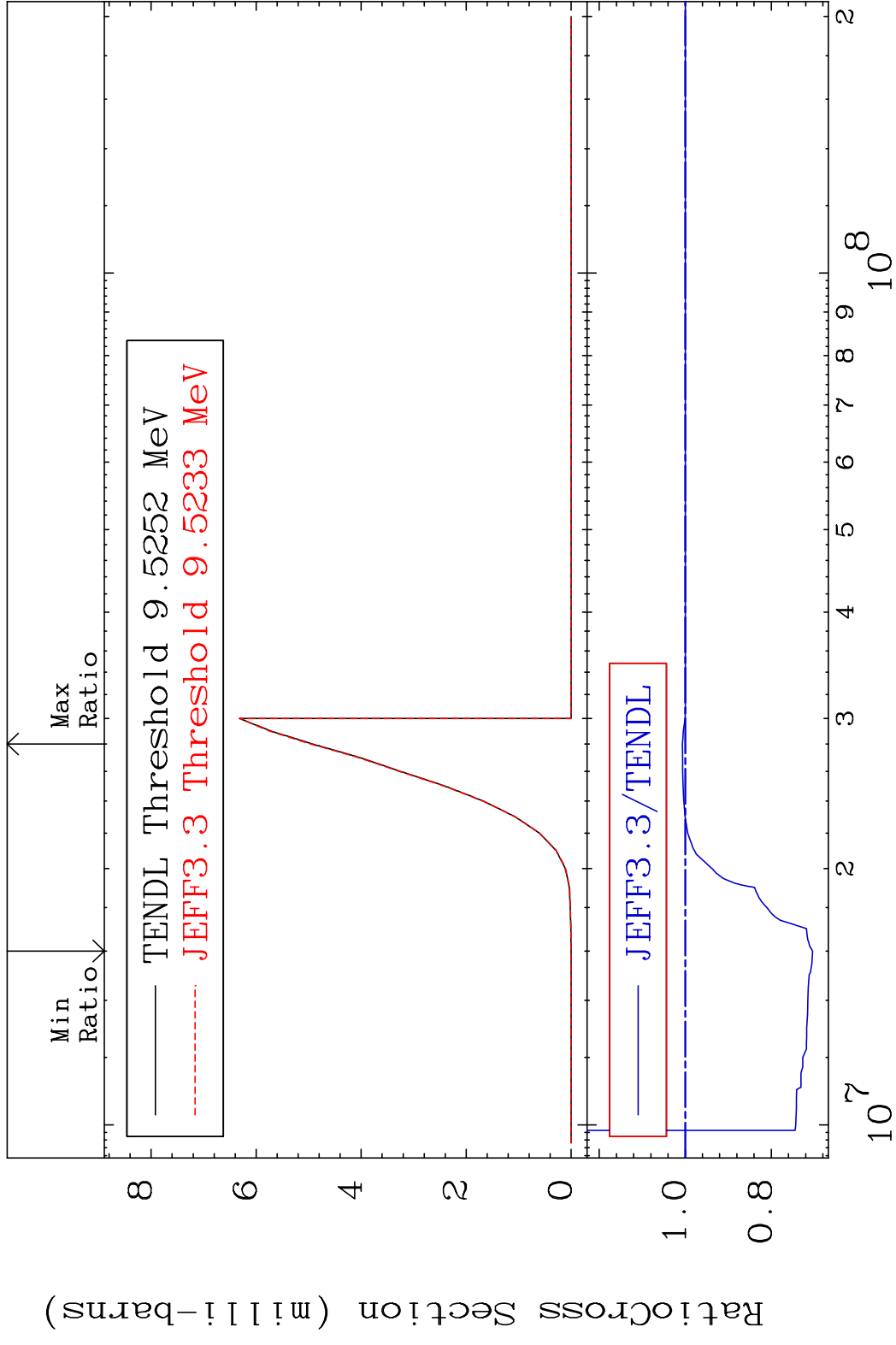
25-Mn-53

MAT 2519

(n, He-3)

²⁵Mn-53

Cross Section -29.59 To 0.672 %



53

Incident Energy (eV)

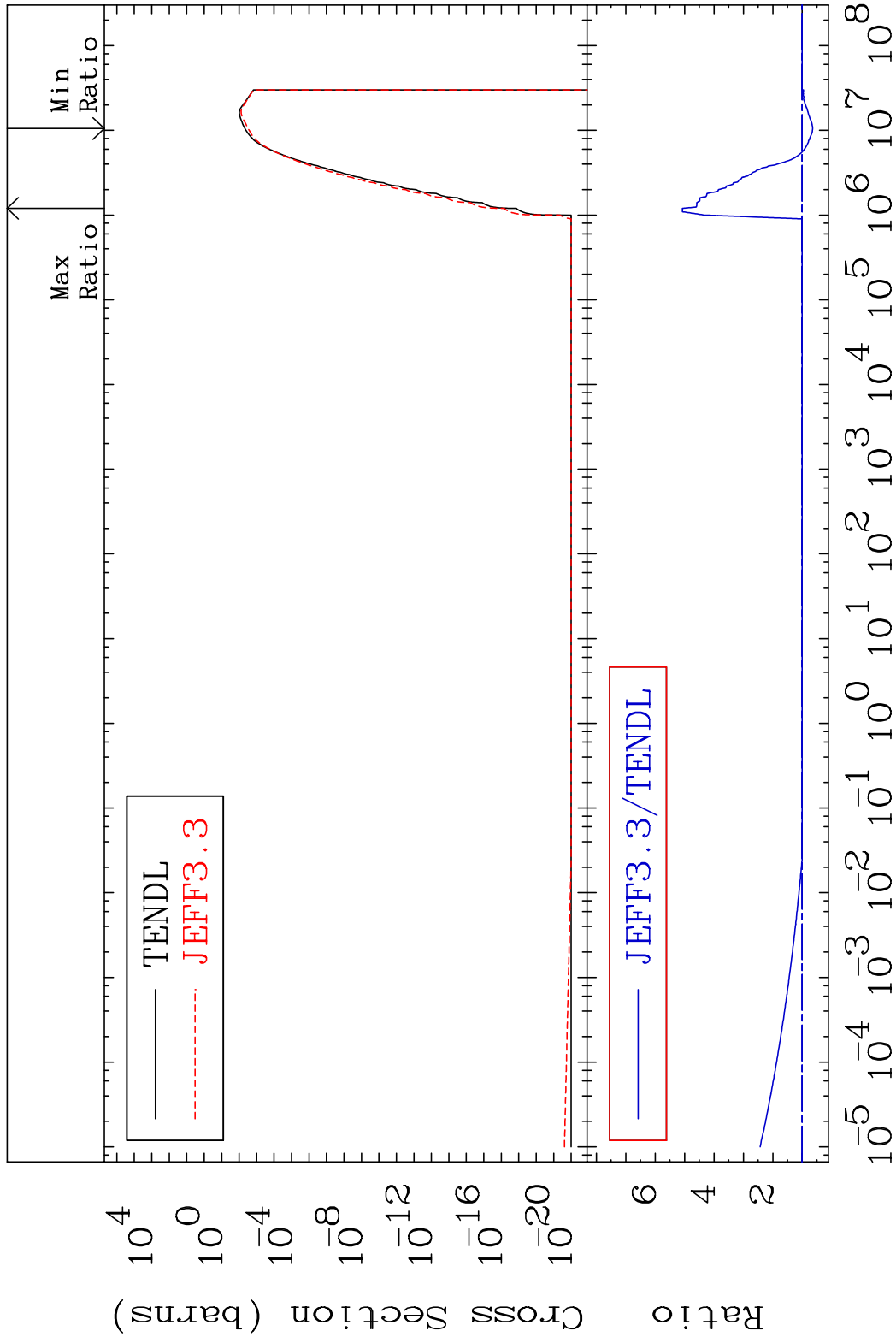
²⁵Mn-53

MAT 2519

(n, α)

25-Mn-53

Cross Section -35.13 To 407.6 %



54

Incident Energy (eV)

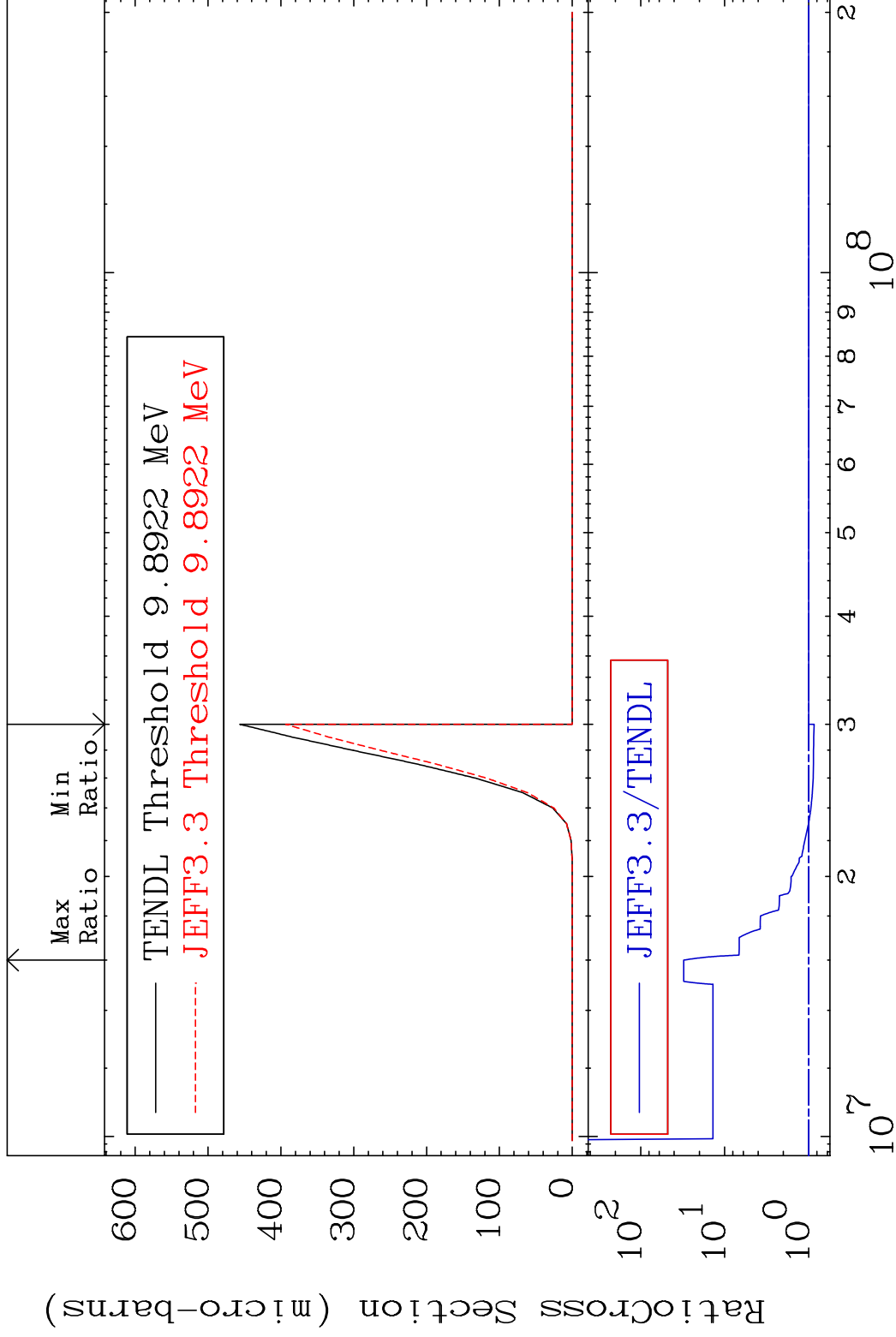
25-Mn-53

MAT 2519

(n,2α)

25-Mn-53

Cross Section -13.84 To 2981. %



55

Incident Energy (eV)

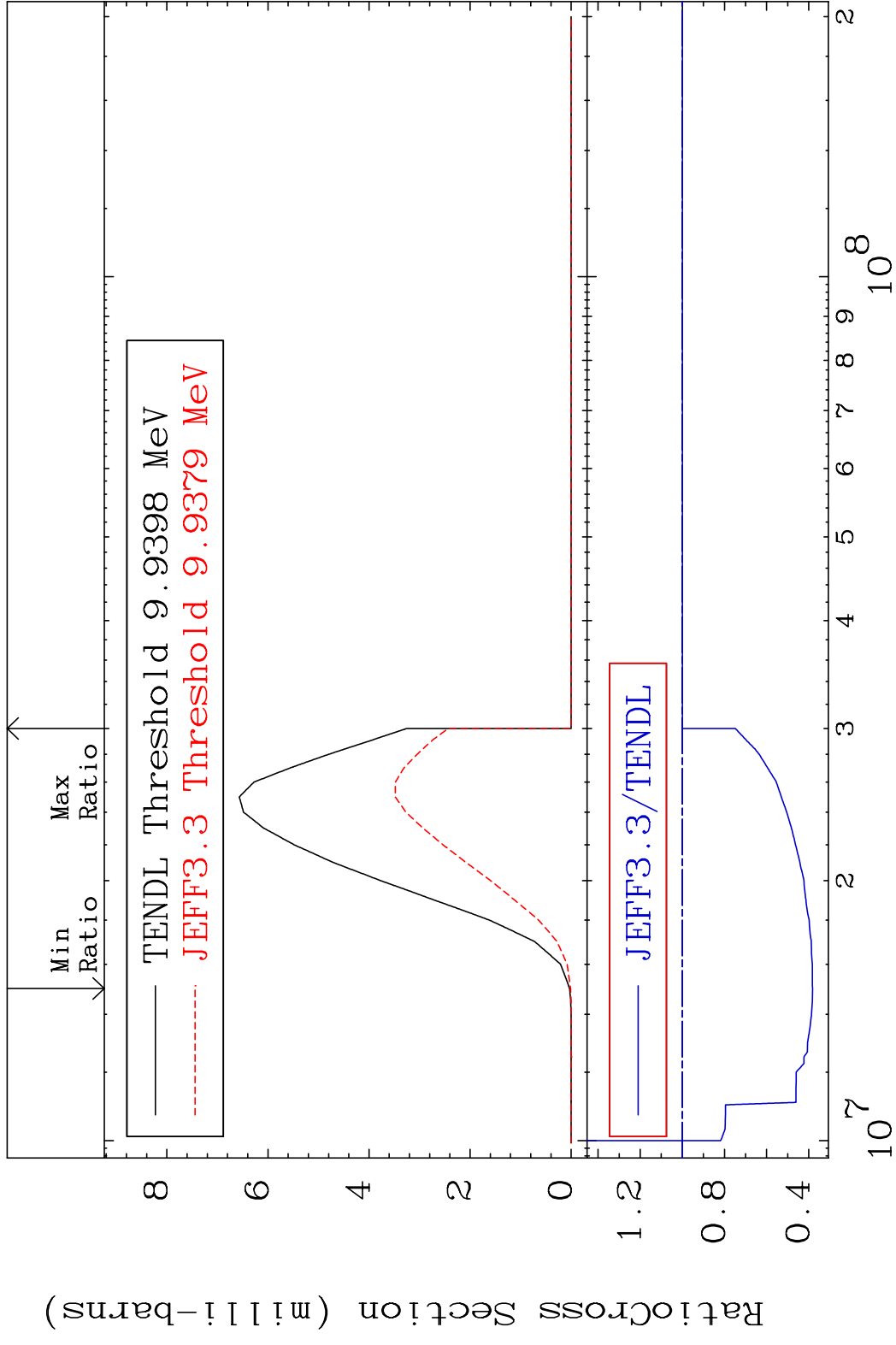
25-Mn-53

MAT 2519

(n,2p)

25-Mn-53

Cross Section -61.81 To 0.000 %



56

Incident Energy (eV)

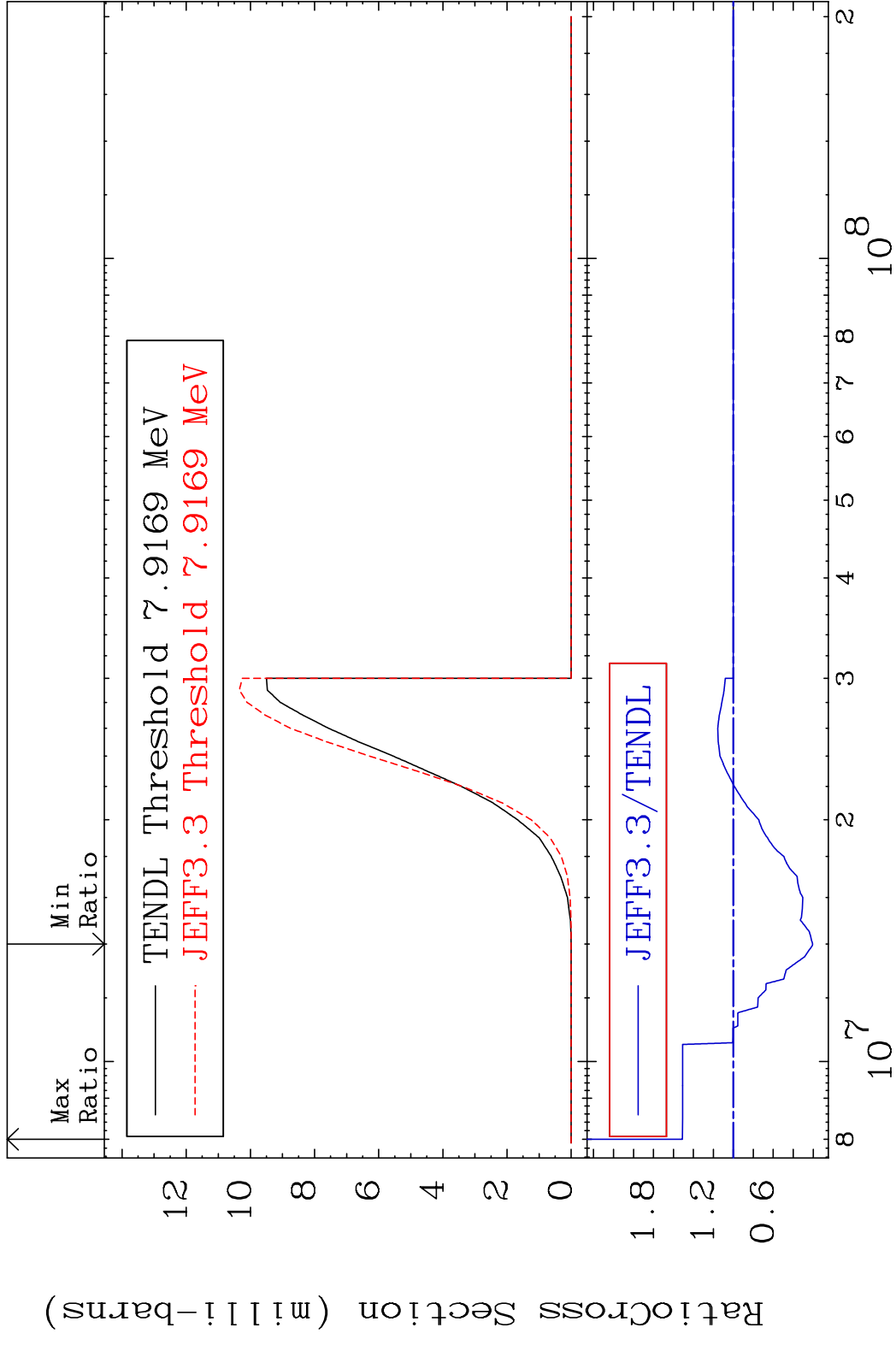
25-Mn-53

MAT 2519

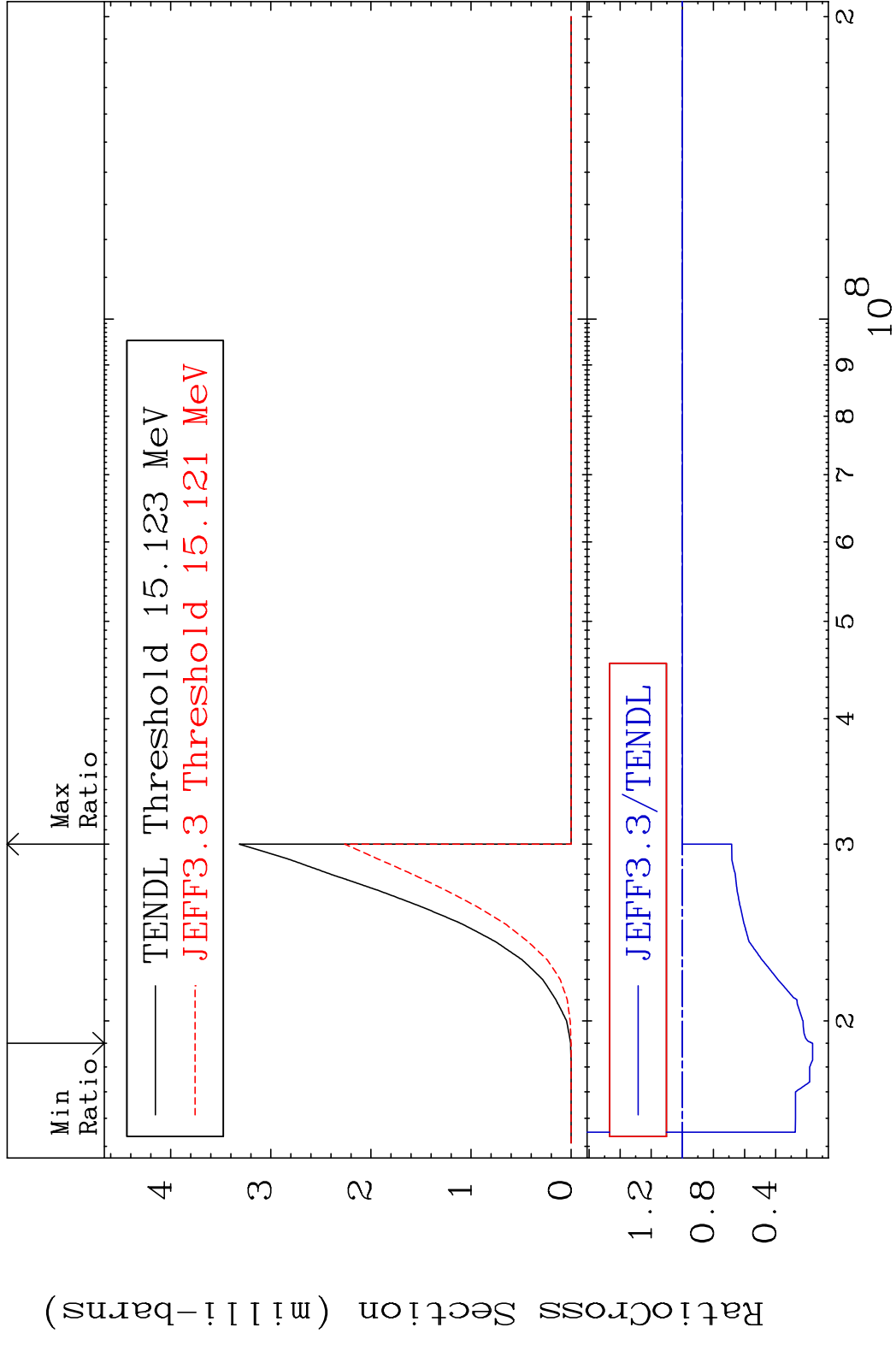
(n,p) α

25-Mn-53

Cross Section -79.36 To 51.05 %



MAT 2519 (n,p) d 25-Mn-53
 Cross Section -83.73 To 0.000 %

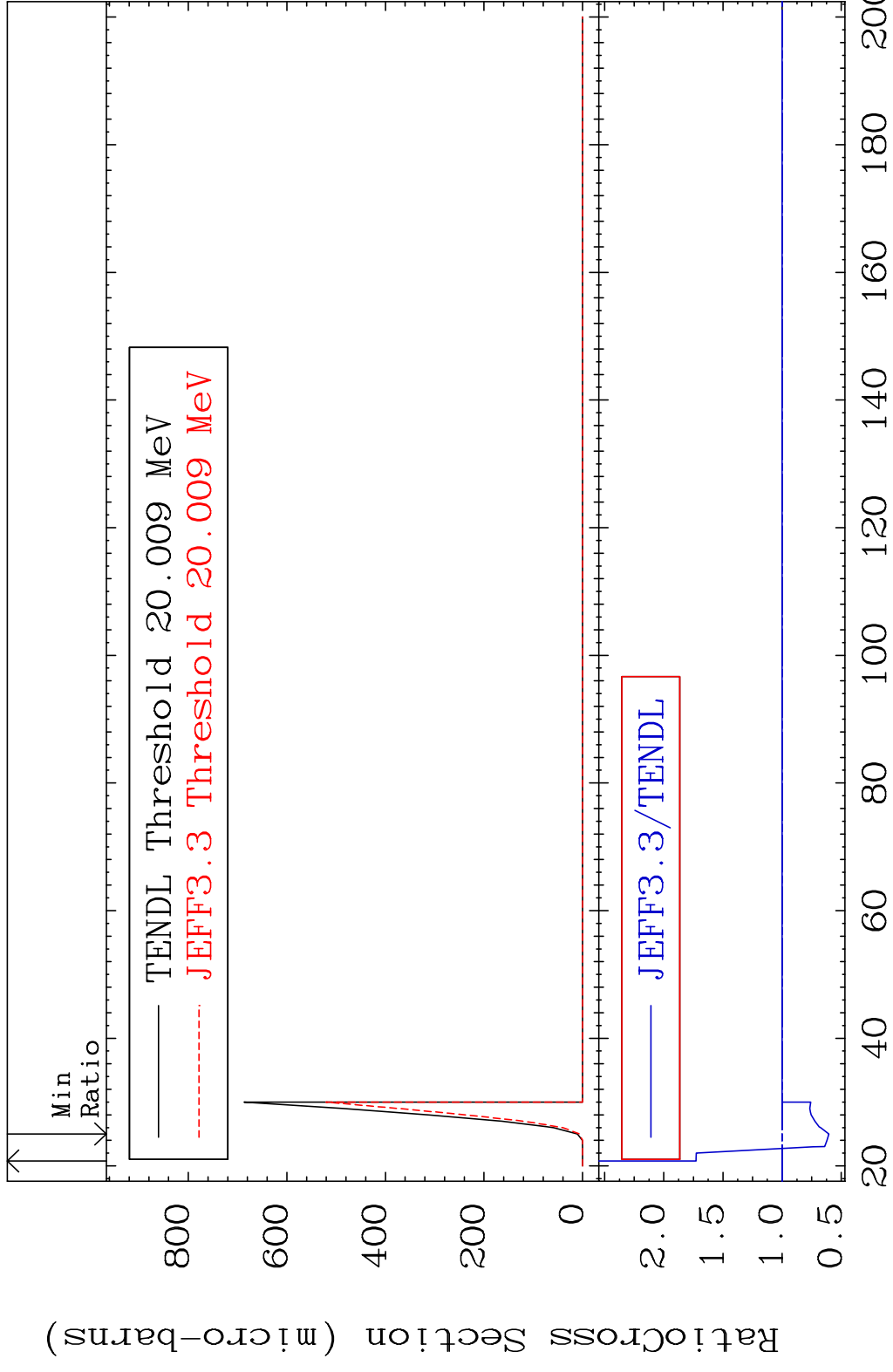


MAT 2519

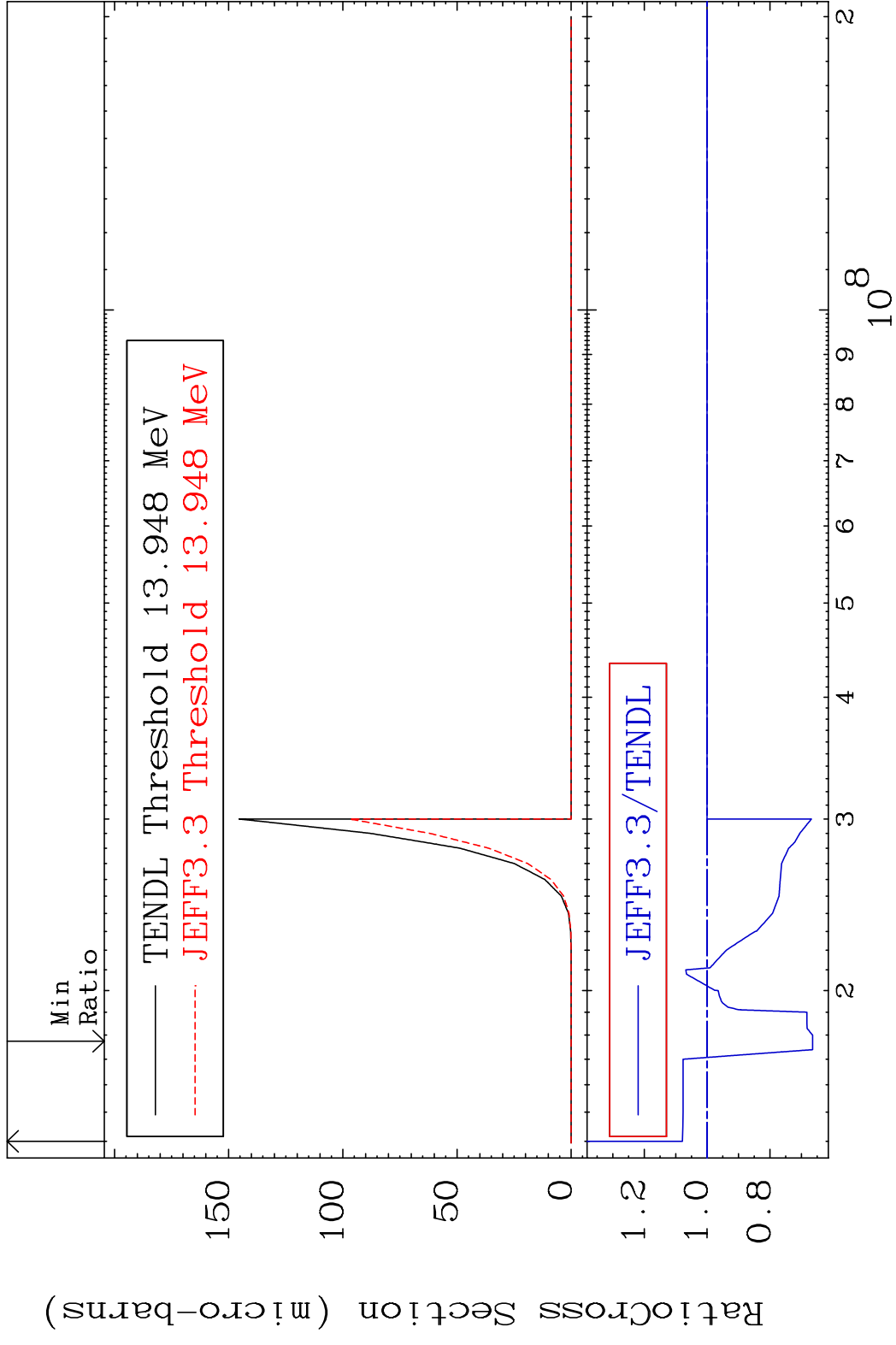
(n,p) t

25-Mn-53

Cross Section -39.47 To 72.79 %



MAT 2519 (n,d) α 25-Mn-53
 Cross Section -33.53 To 7.877 %

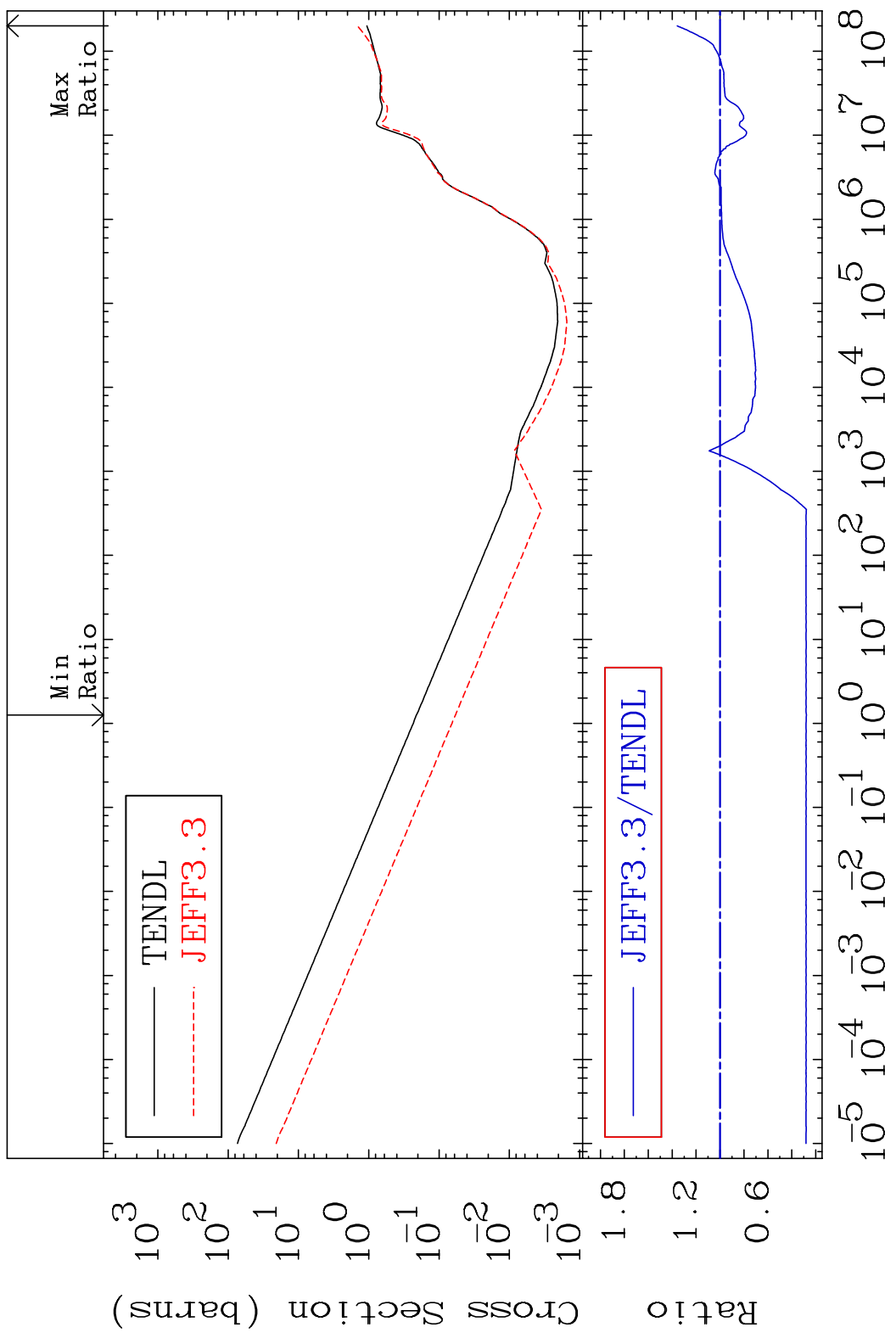


MAT 2519

Hydrogen Production

25-Mn-53

Cross Section -72.21 To 35.83 %

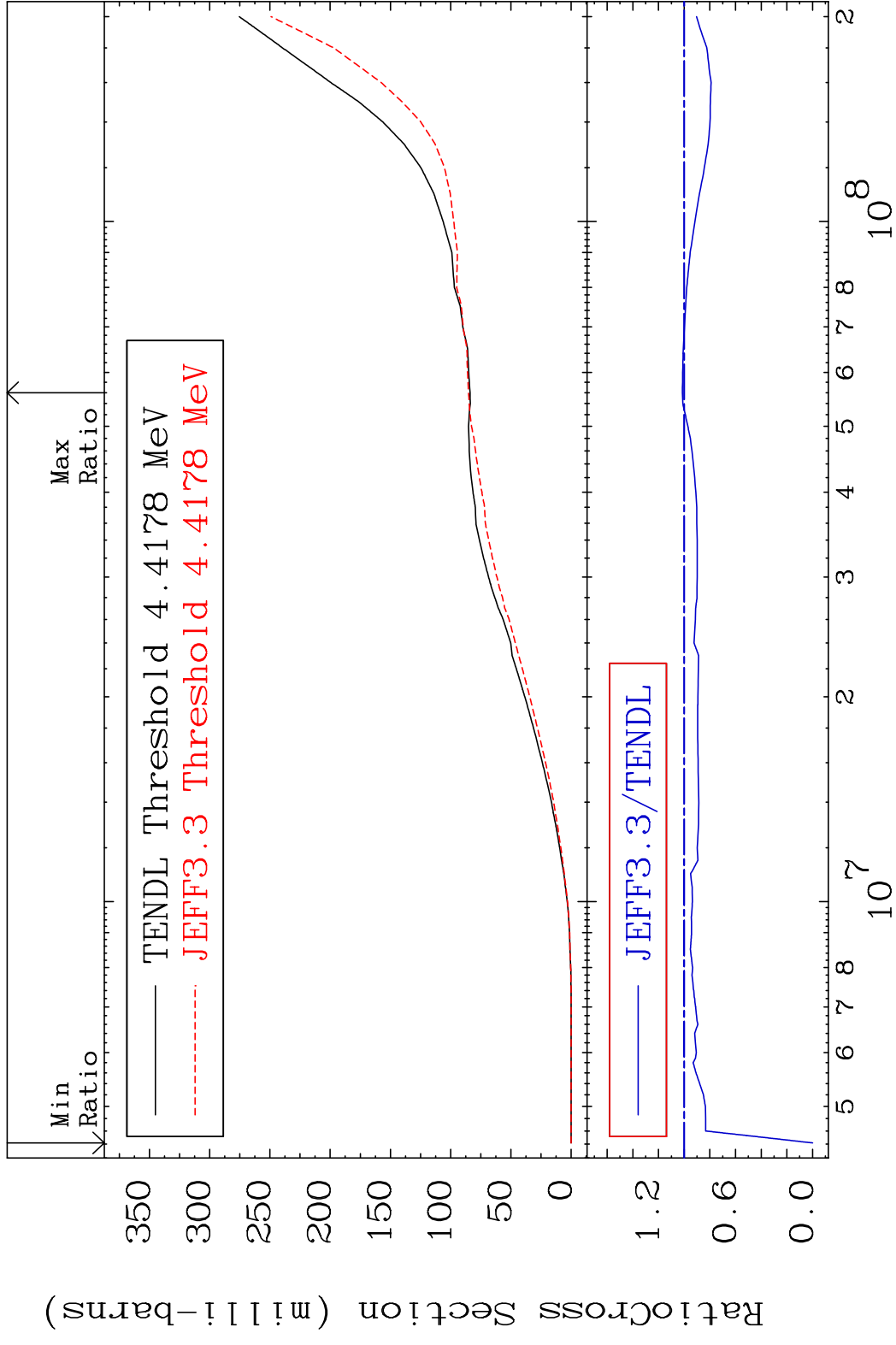


61

Incident Energy (eV)

25-Mn-53

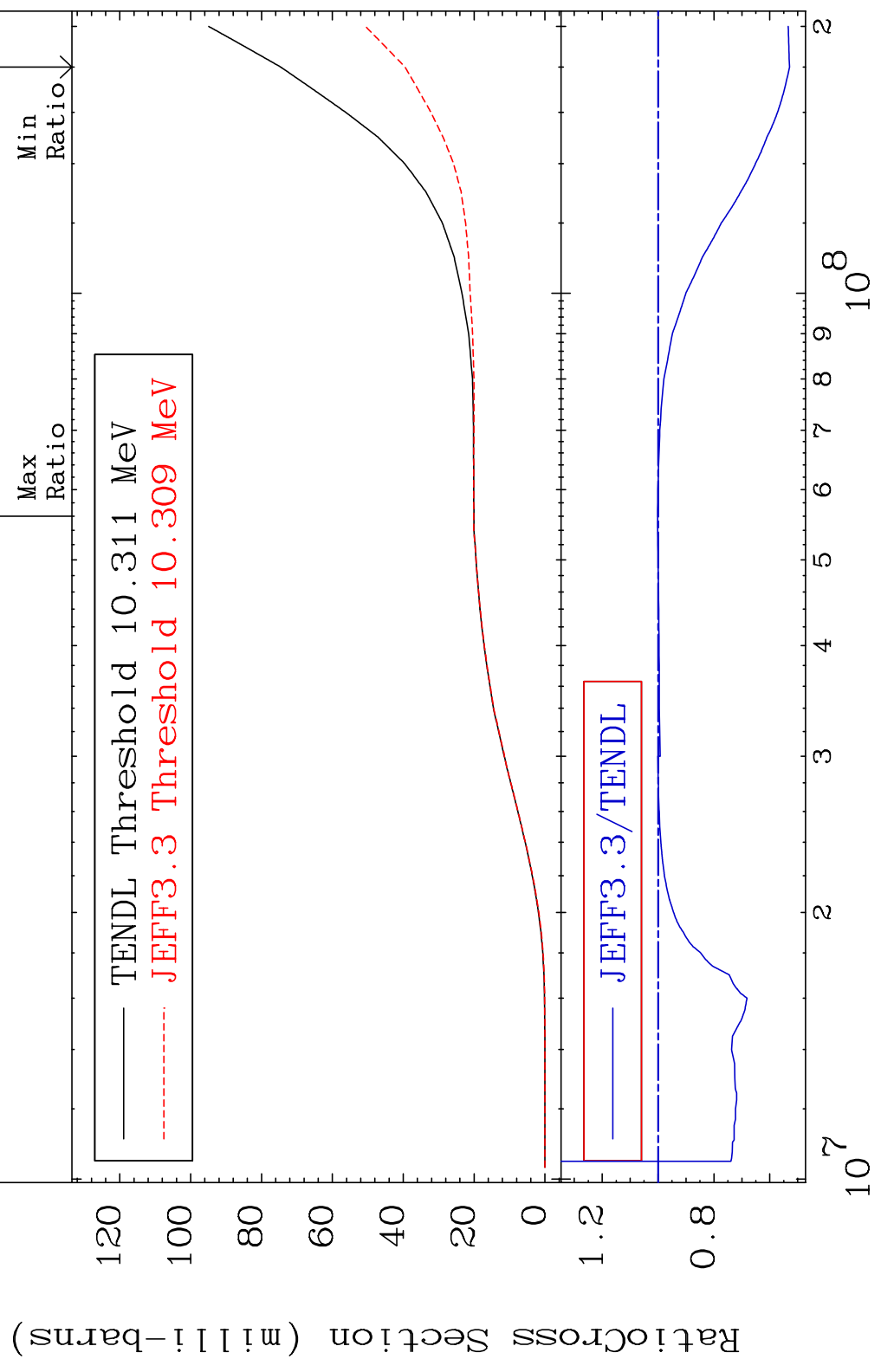
MAT 2519 Deuterium Production 25-Mn-53
 Cross Section -100.0 To 1.428 %



MAT 2519

Tritium Production
Cross Section -47.06 To 0.172 %

25-Mn-53



63

Incident Energy (eV)

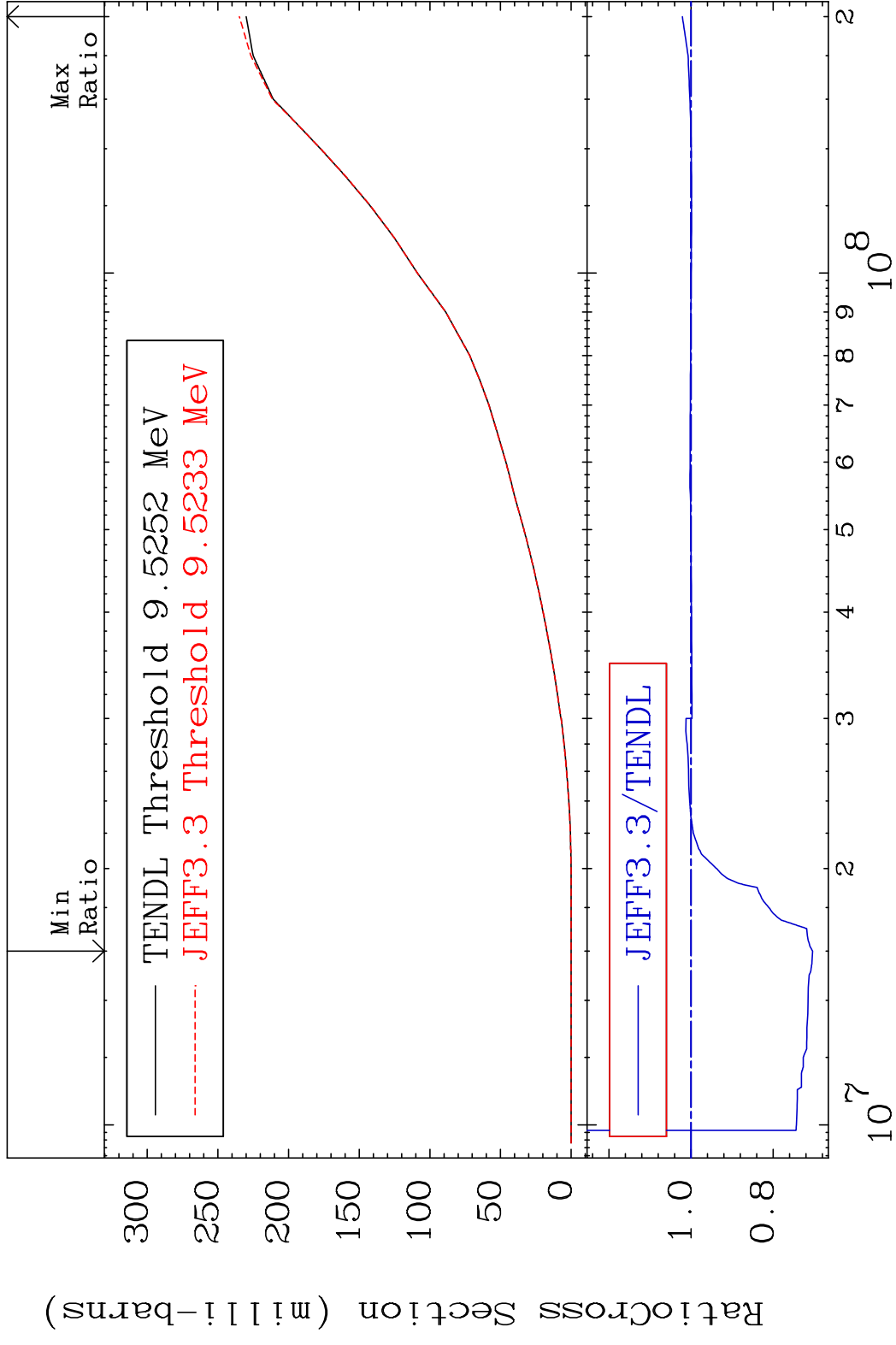
25-Mn-53

MAT 2519

He-3 Production

25-Mn-53

Cross Section -29.59 To 2.112 %



64

Incident Energy (eV)

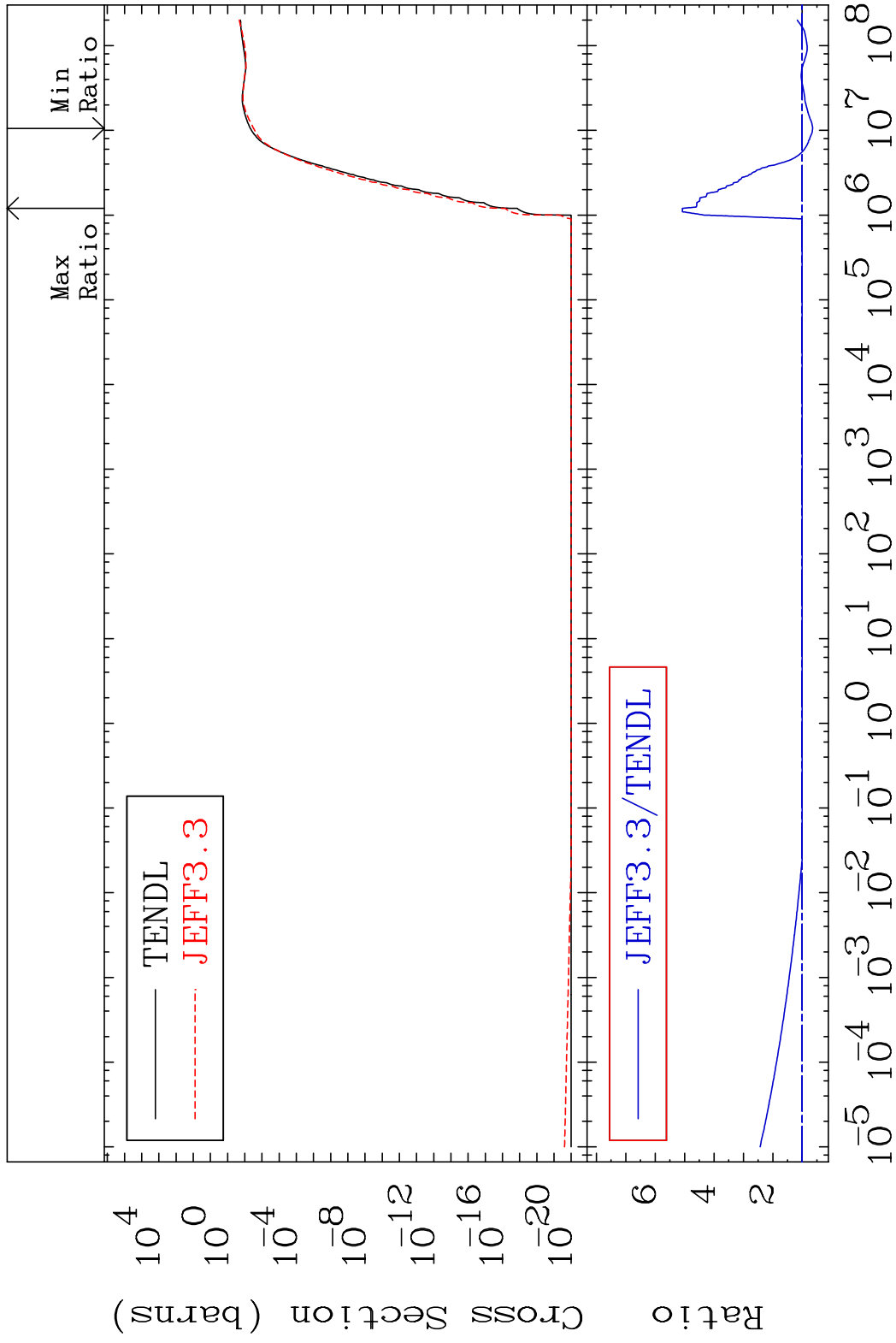
25-Mn-53

MAT 2519

He-4 Production

25-Mn-53

Cross Section -35.13 To 407.6 %

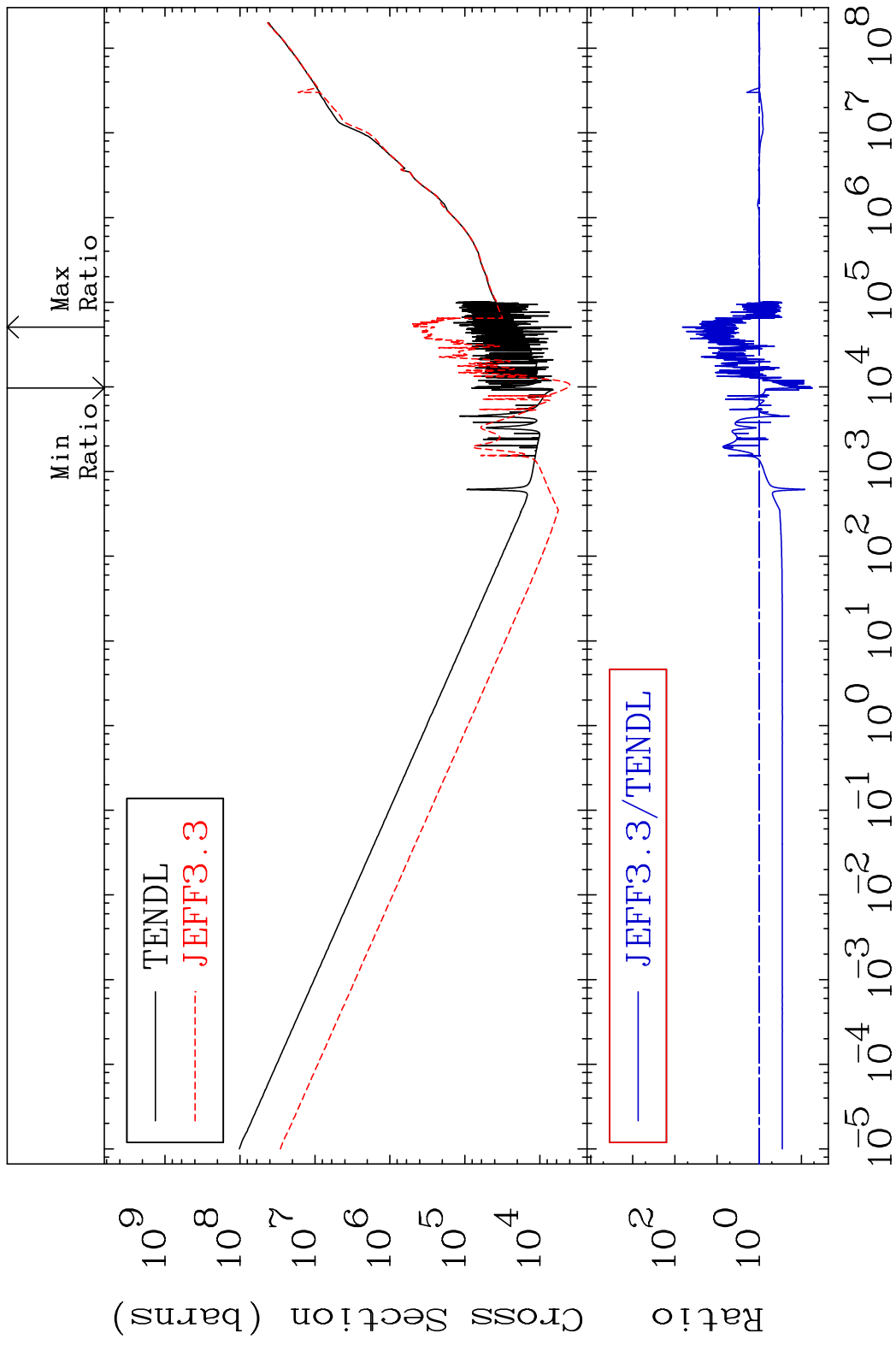


65

Incident Energy (eV)

25-Mn-53

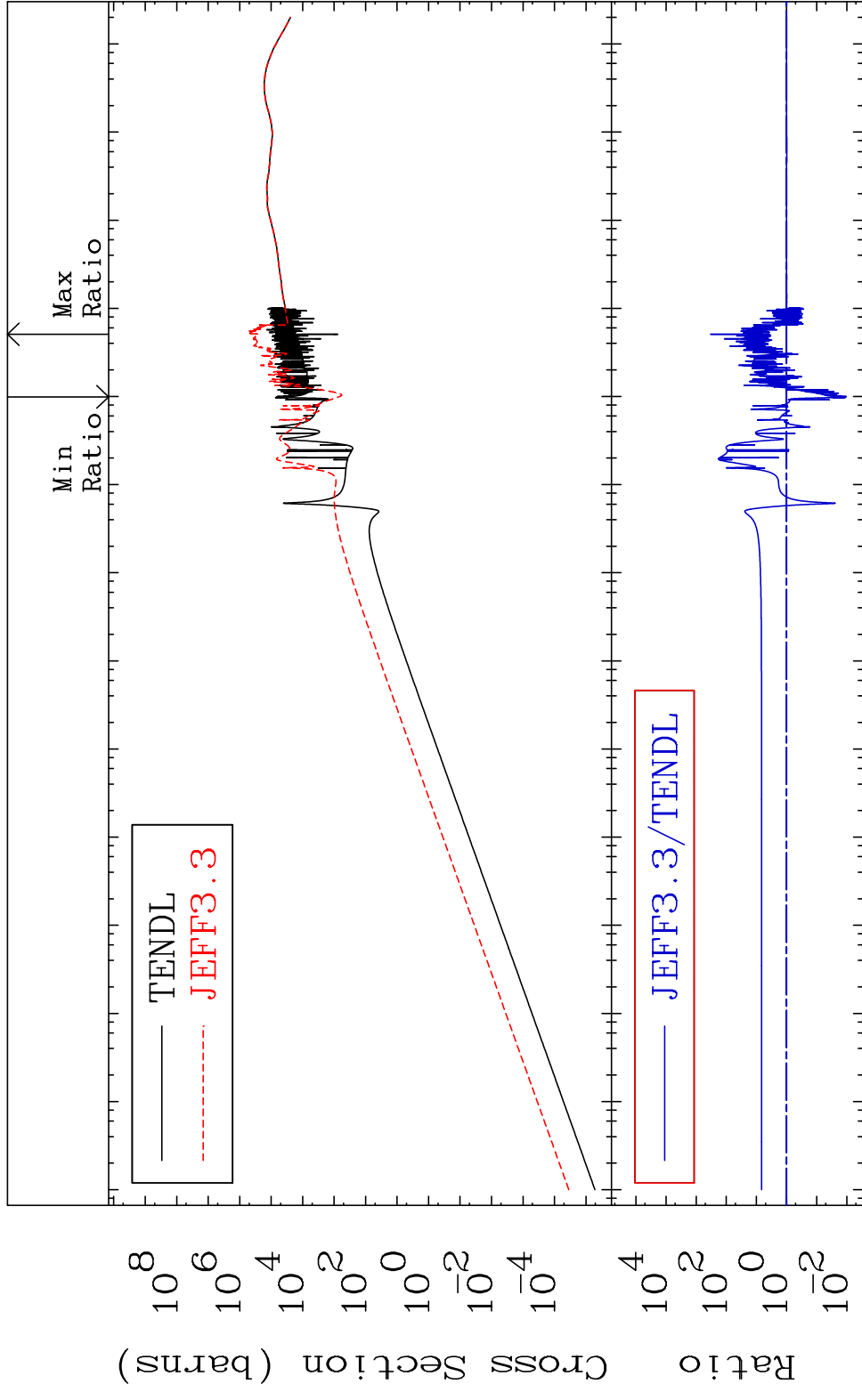
MAT 2519 Kerma total (eV-barns) 25-Mn-53
 Cross Section -94.59 To 6559. %



MAT 2519

Kerma elastic
Cross Section -98.96 To 9999. %

25-Mn-53

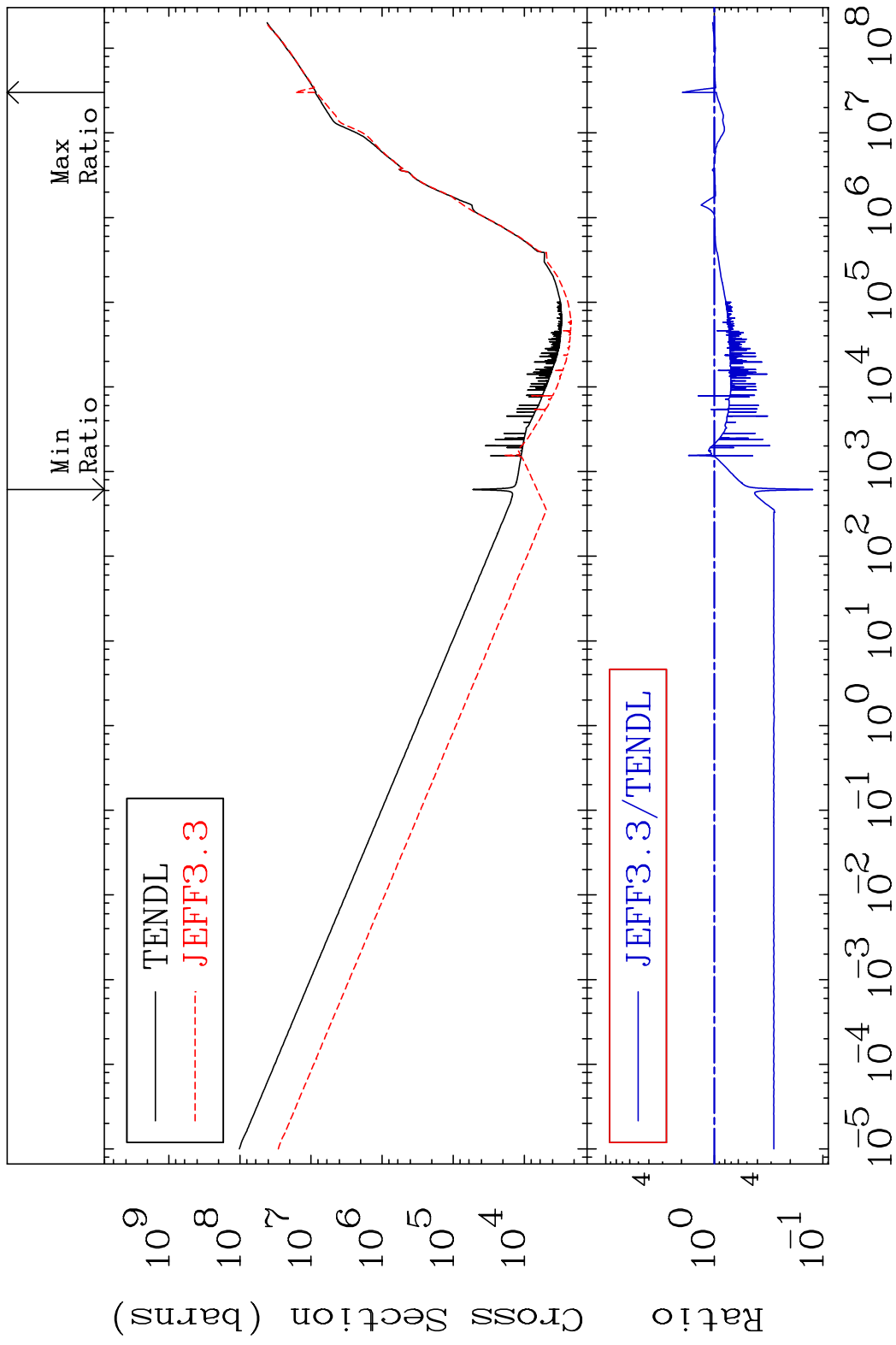


67

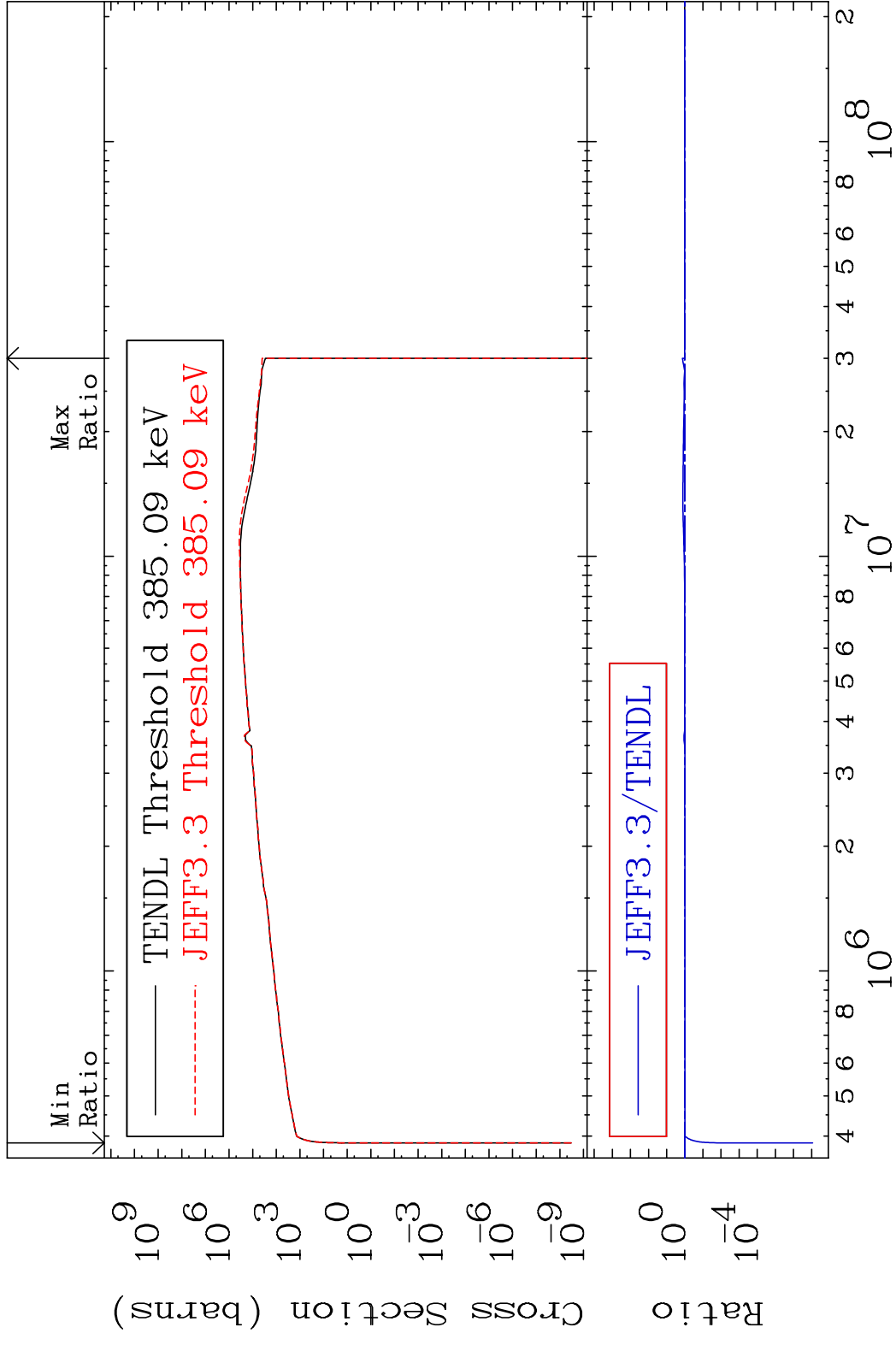
Incident Energy (eV)

25-Mn-53

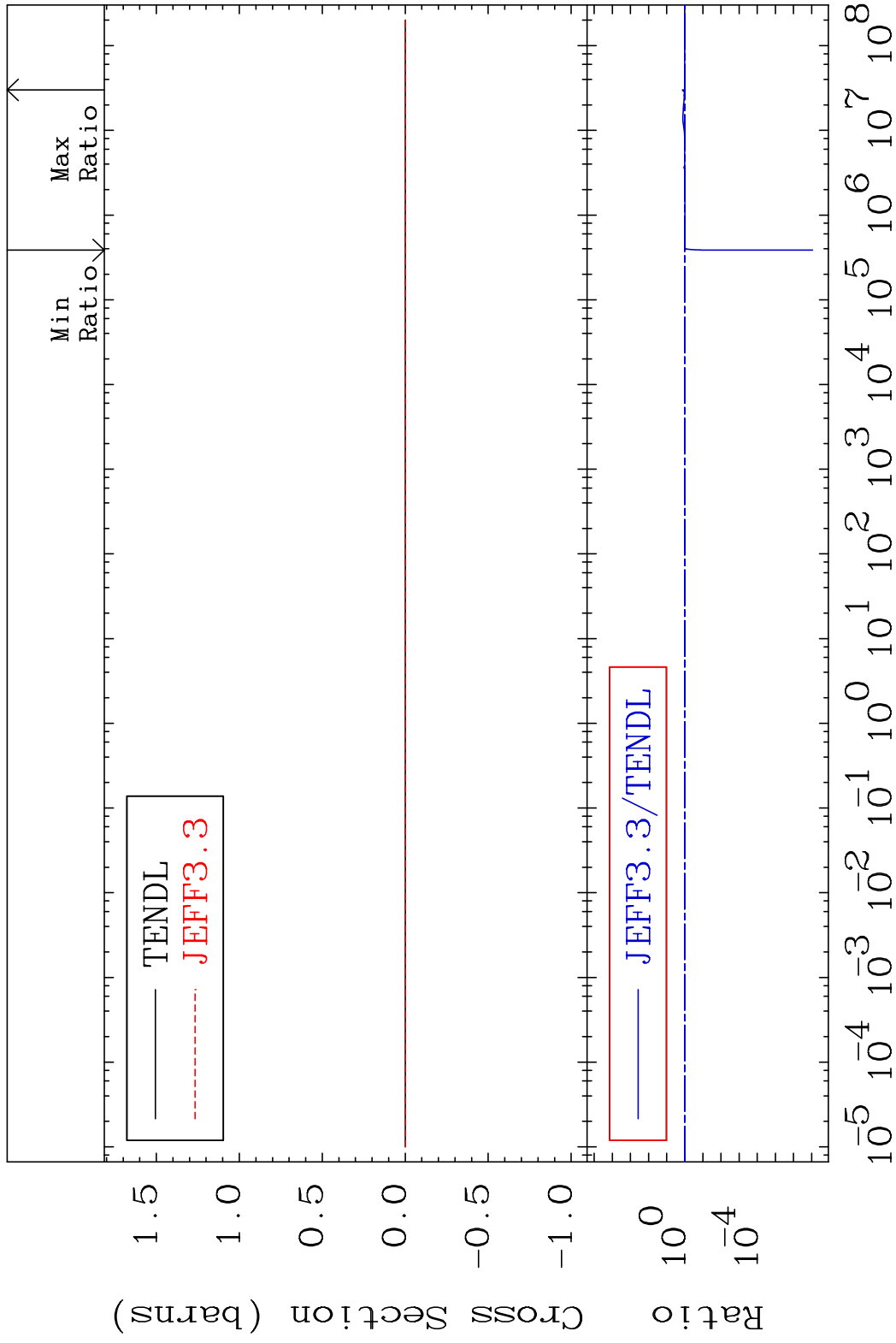
MAT 2519 Kerma non-elastic (all but mt2) 25-Mn-53
 Cross Section -87.56 To 96.71 %



MAT 2519 Kerma inelastic (mt51-91) 25-Mn-53
 Cross Section -100.0 To 36.08 %



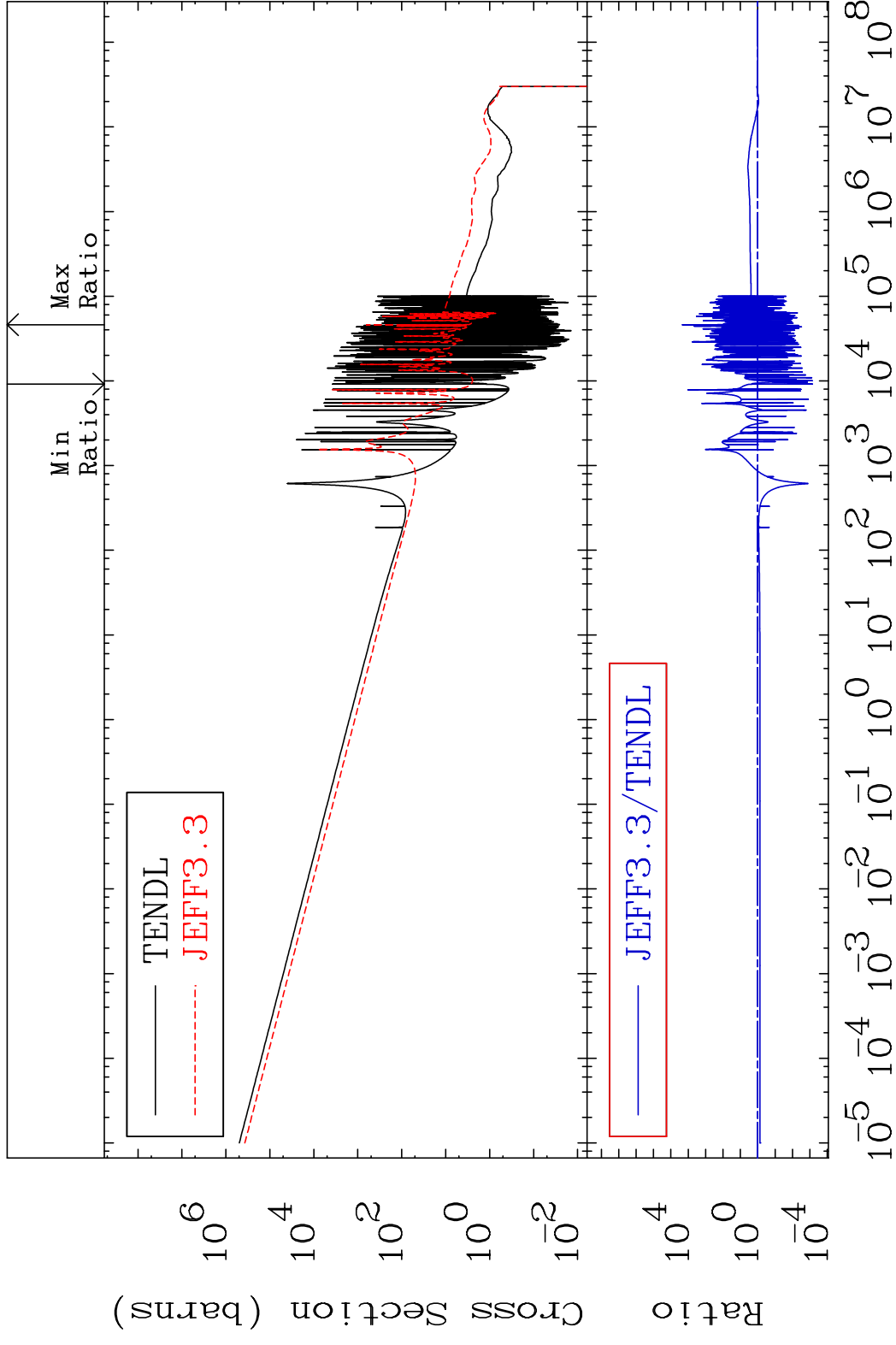
MAT 2519 Kerma fission (mt18 or mt19-20-21-38) 25-Mn-53
 Cross Section -100.0 To 36.08 %



MAT 2519

Kerma capture (mt102) 25-Mn-53

Cross Section -99.93 To 9999. %

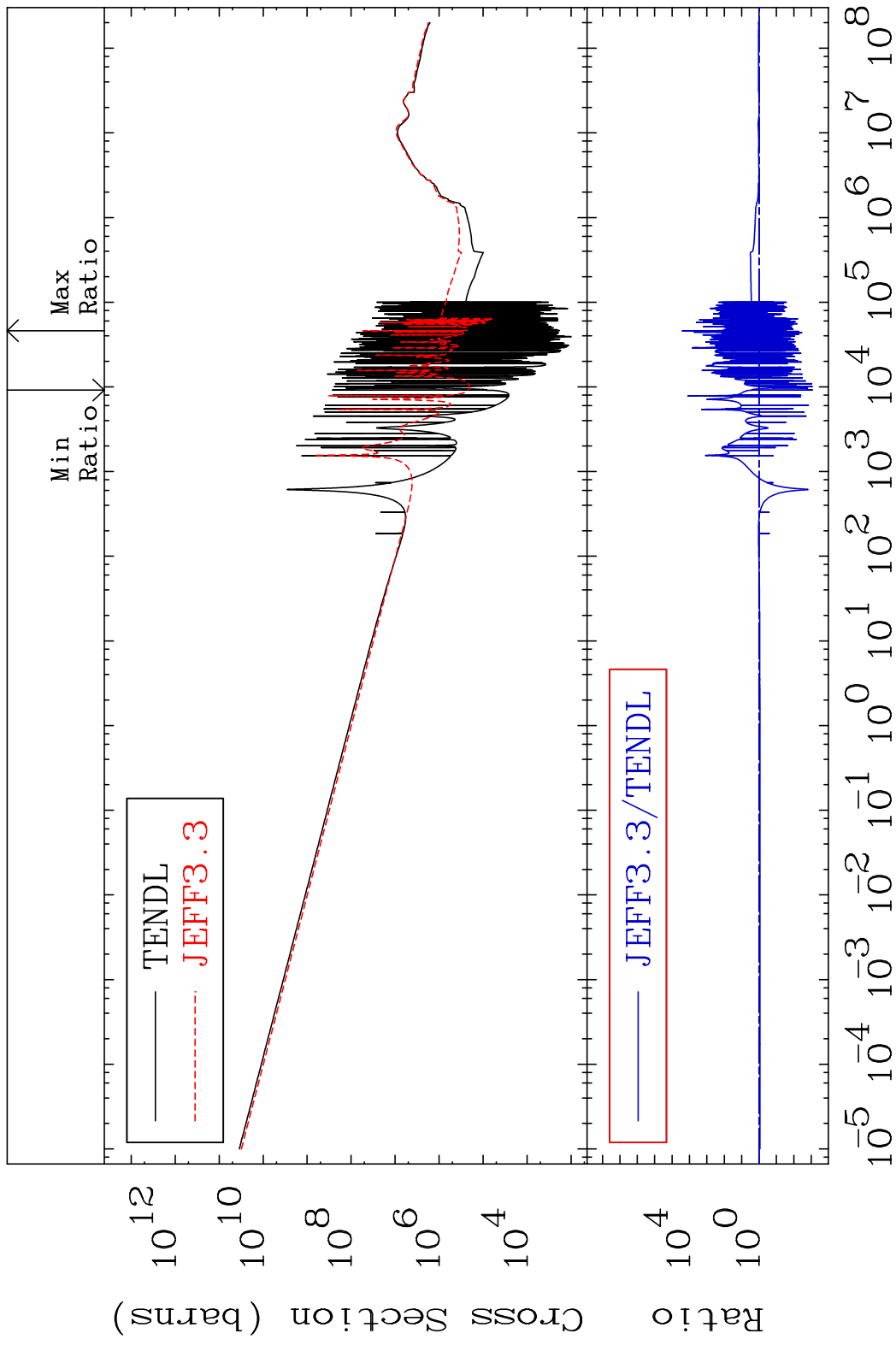


71

Incident Energy (eV)

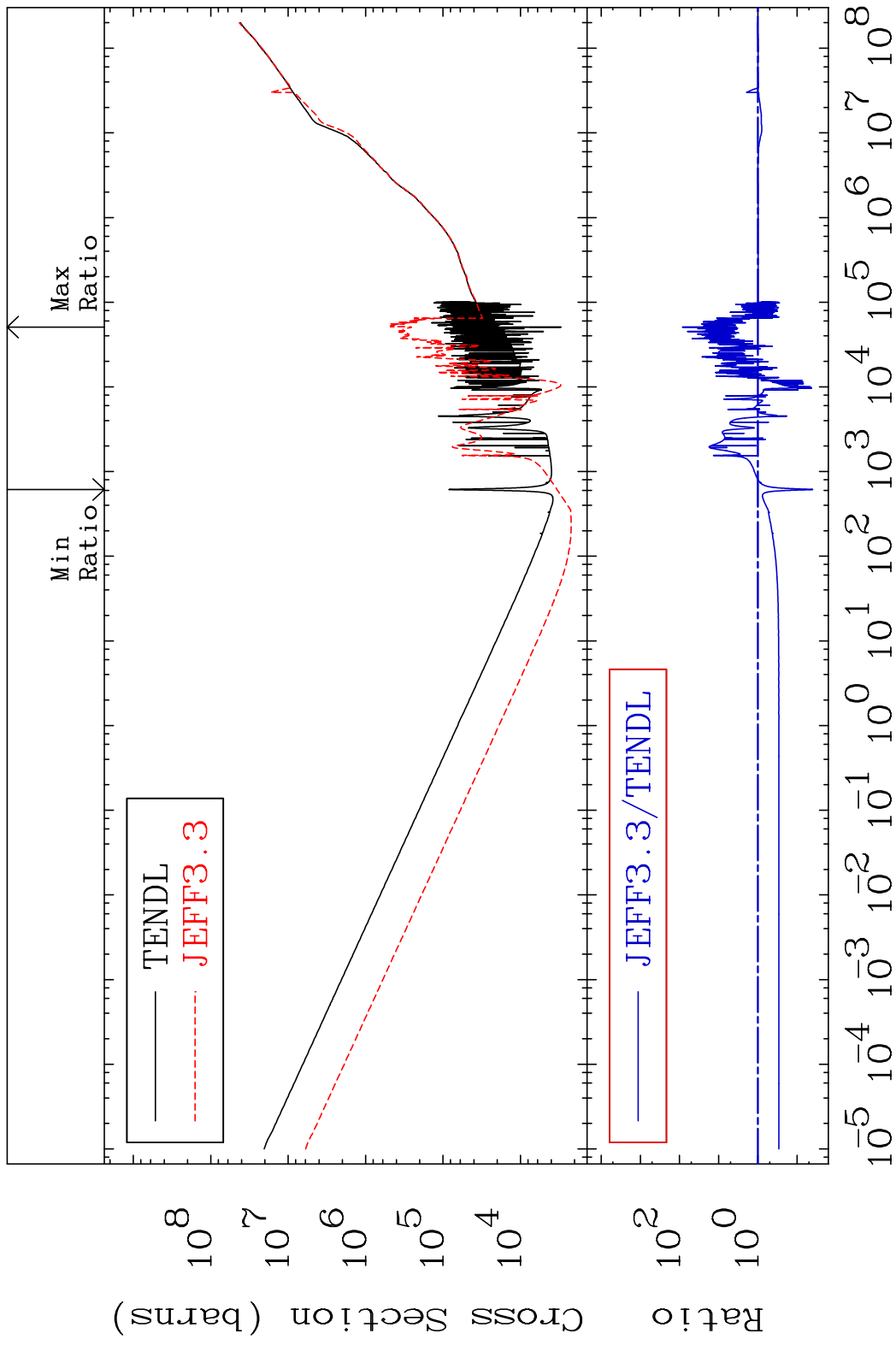
25-Mn-53

MAT 2519 Total photon (eV-barns) 25-Mn-53
 Cross Section -99.92 To 9999. %

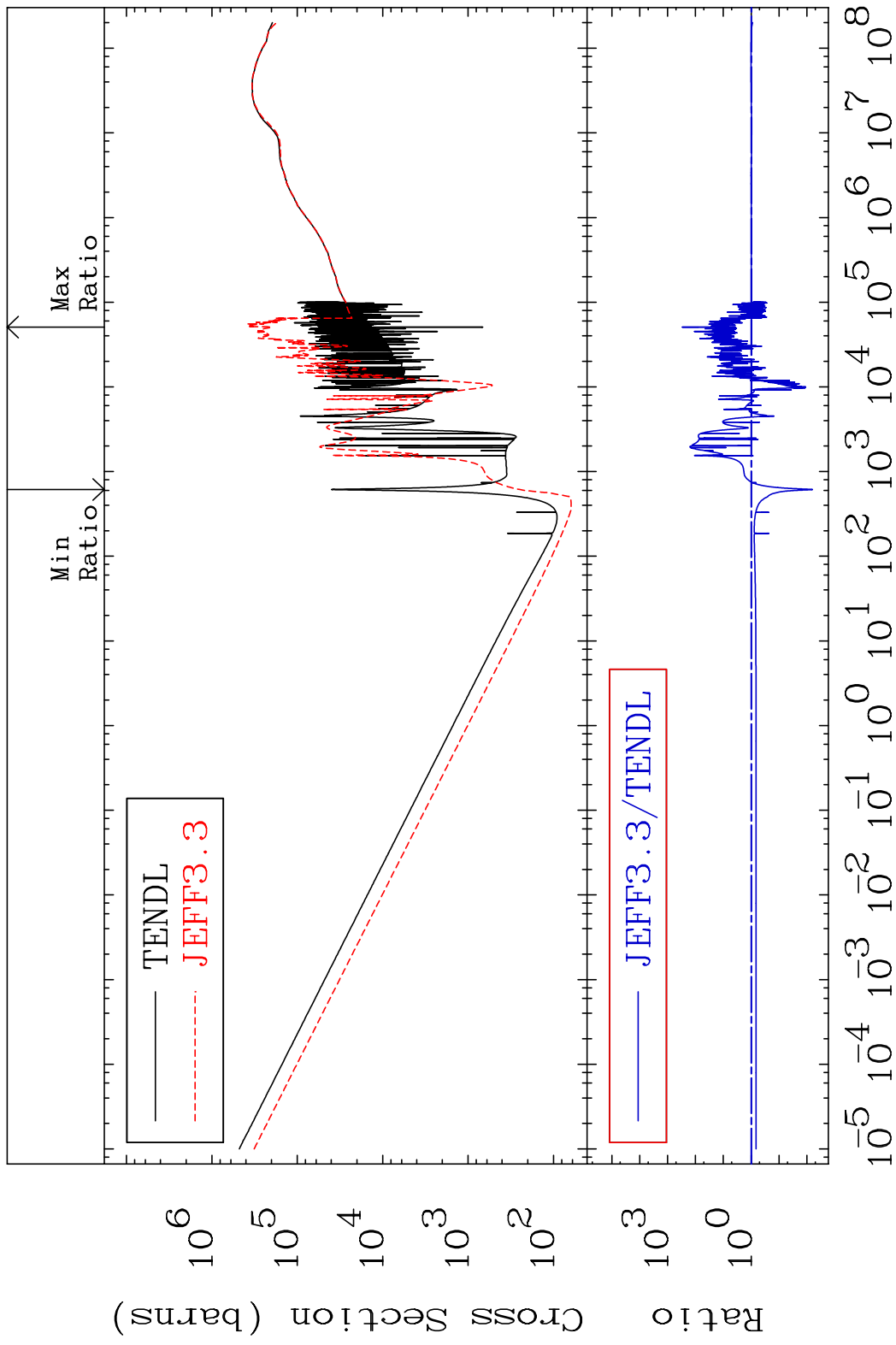


72 Incident Energy (eV) 25-Mn-53

MAT 2519 Total kinematic kerma (high limit) 25-Mn-53
Cross Section -95.97 To 8364. %



MAT 2519 Dpa total (eV-barns) 25-Mn-53
 Cross Section -99.37 To 9999. %



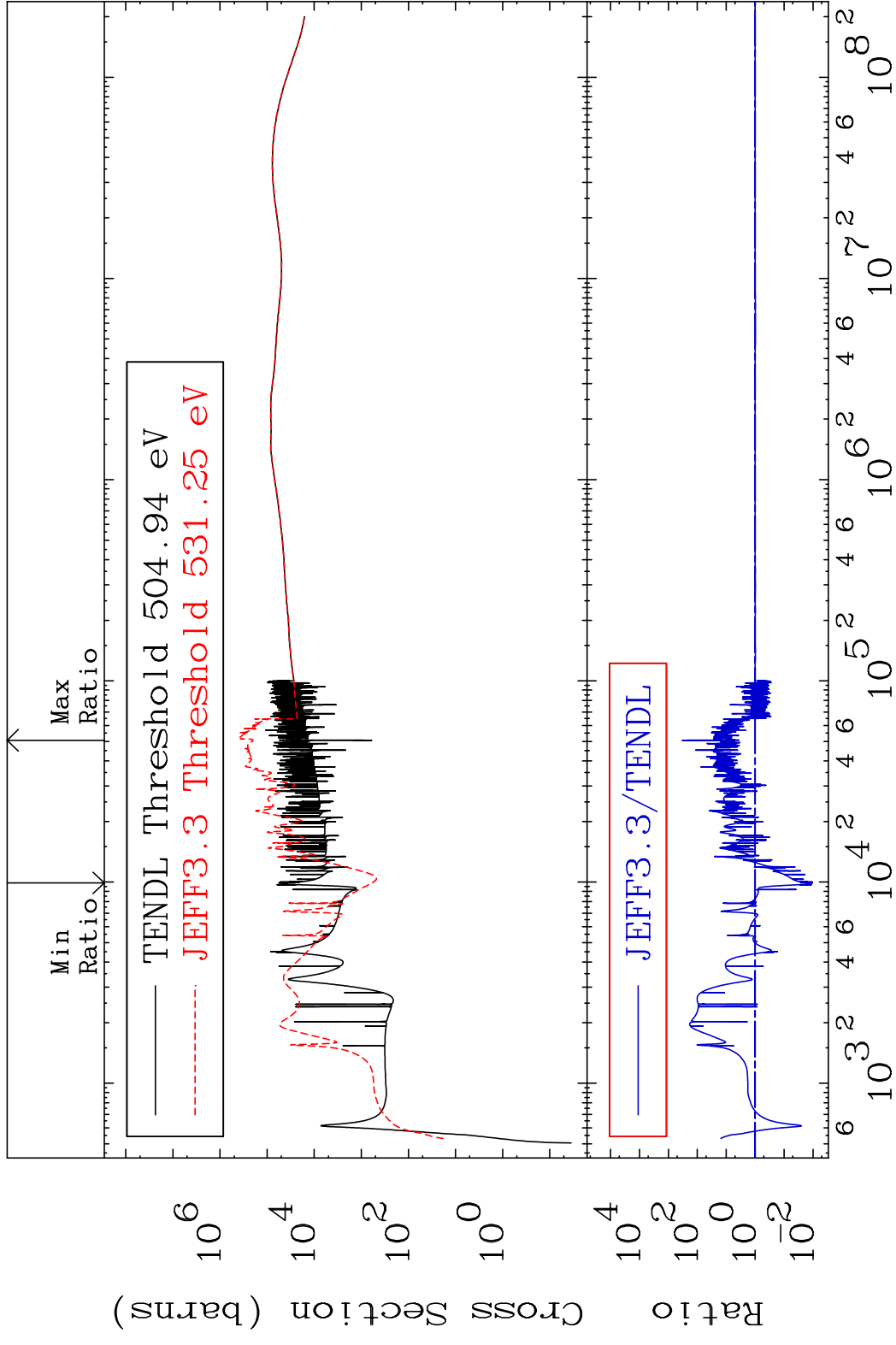
74 Incident Energy (eV) 25-Mn-53

MAT 2519

Dpa elastic (mt2)

25-Mn-53

Cross Section -98.96 To 9999. %

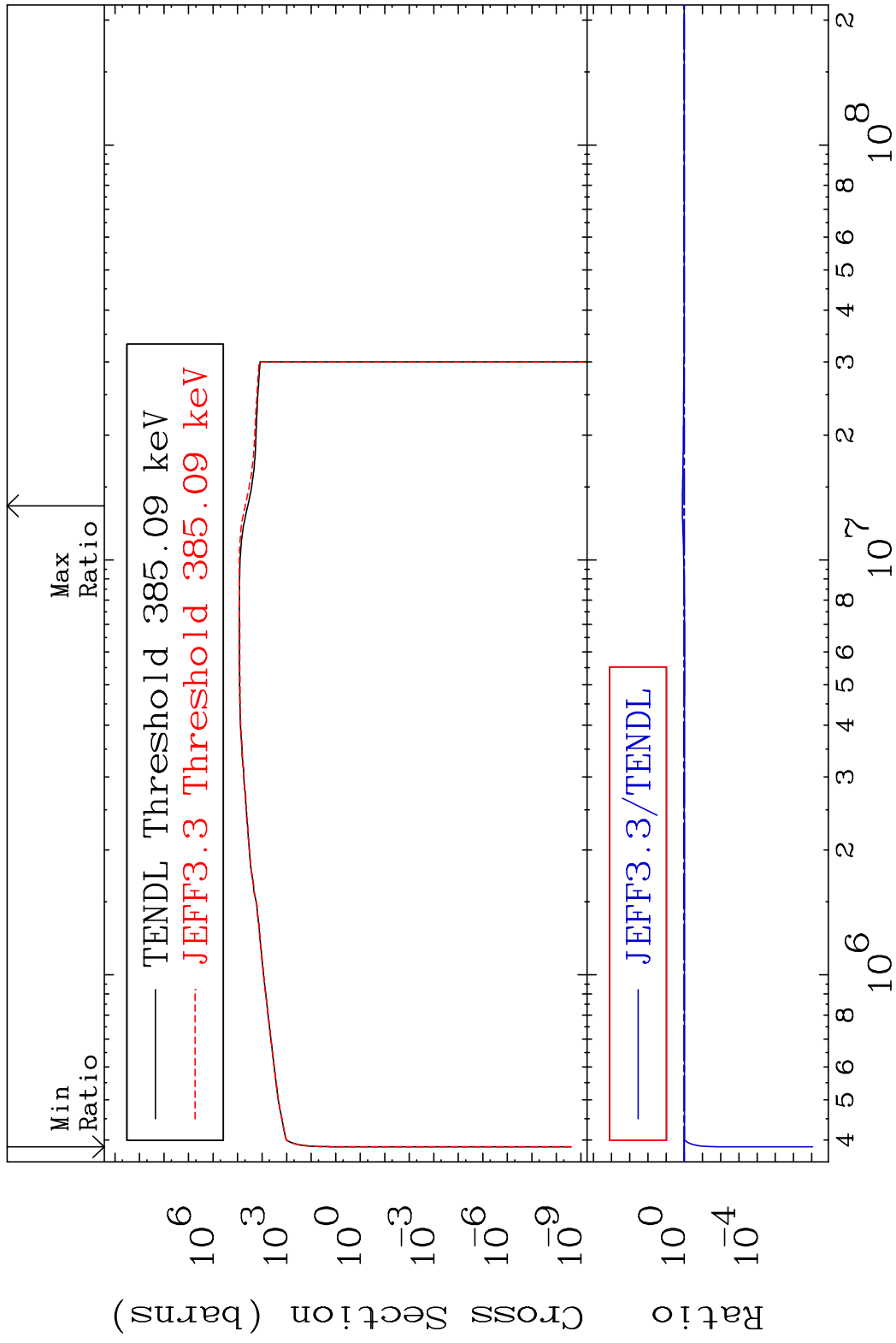


75

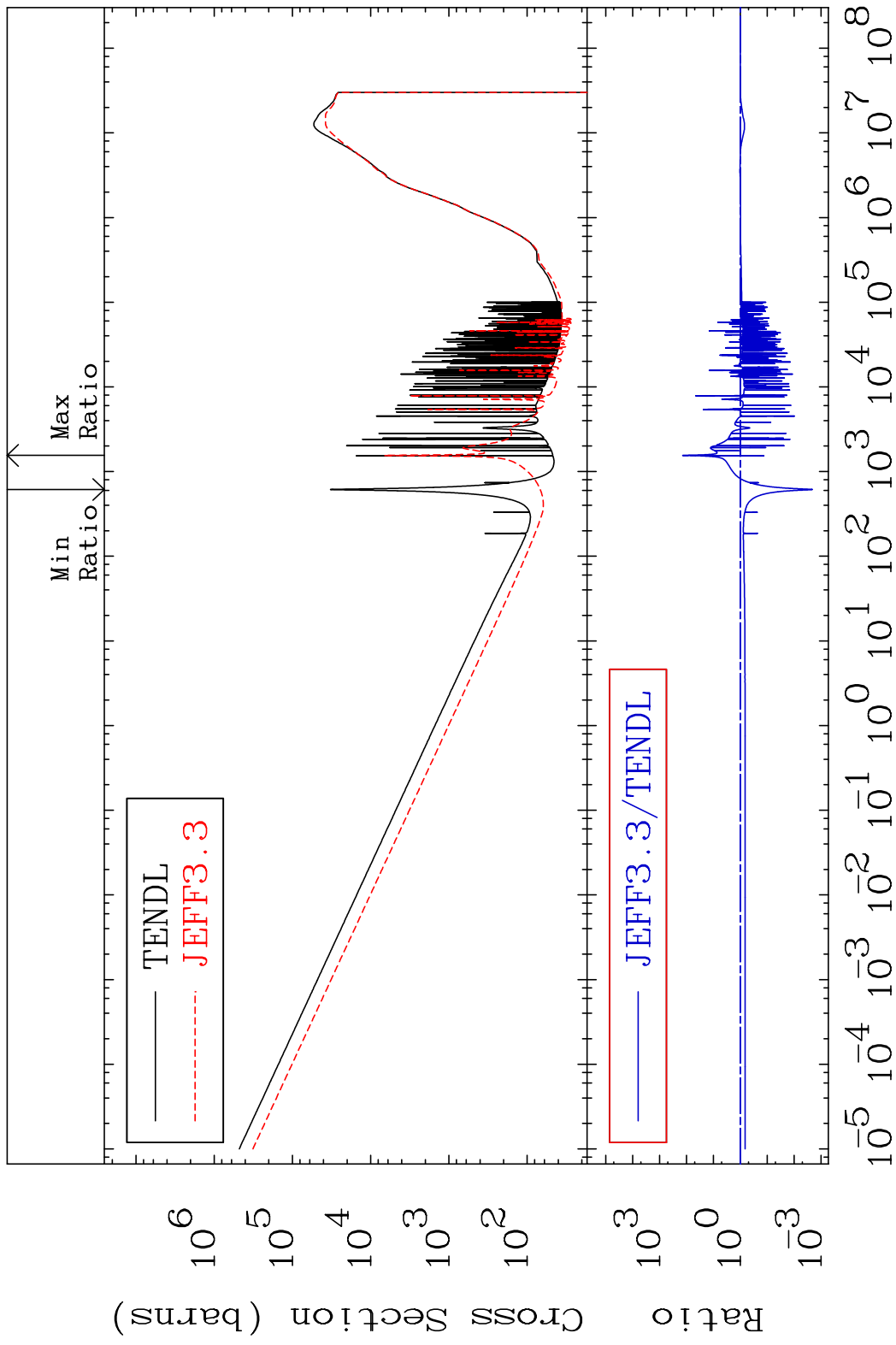
Incident Energy (eV)

25-Mn-53

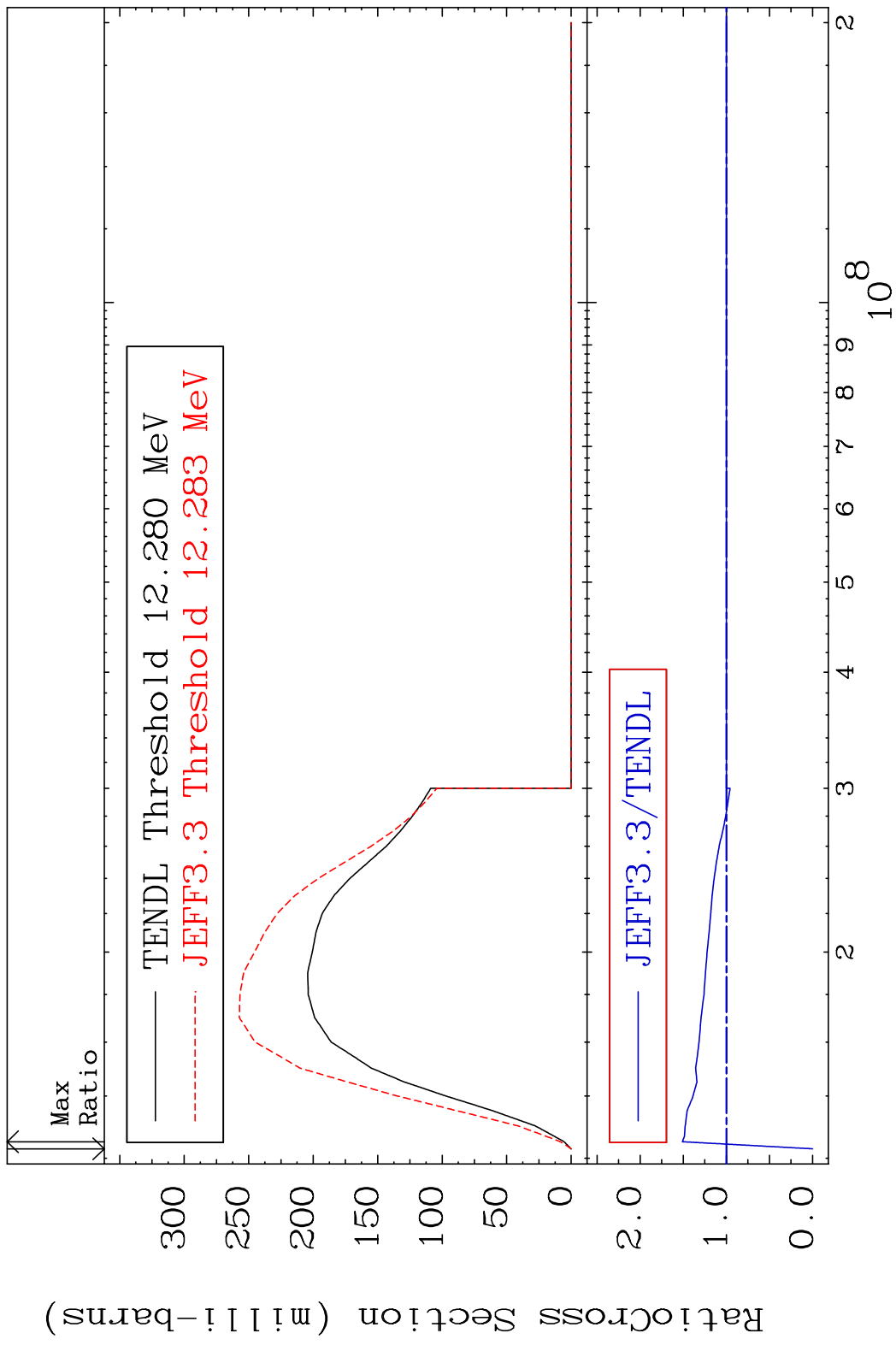
MAT 2519 Dpa inelastic (mt51-91) 25-Mn-53
 Cross Section -100.0 To 28.23 %



MAT 2519 Dpa disappearance (mt102 -120) 25-Mn-53
 Cross Section -99.79 To 9999. %



MAT 2519 (n,2n):25-Mn-52g 25-Mn-53
 Radionuclide Production Cross Section 180.01 dth 51.05 %



MAT 2519 (n,2n):25-Mn-52m1 25-Mn-53
 Radionuclide Production Cross Section 180.01 d10 93.45 %

