

Program Complot
(Version 2021-1)

by

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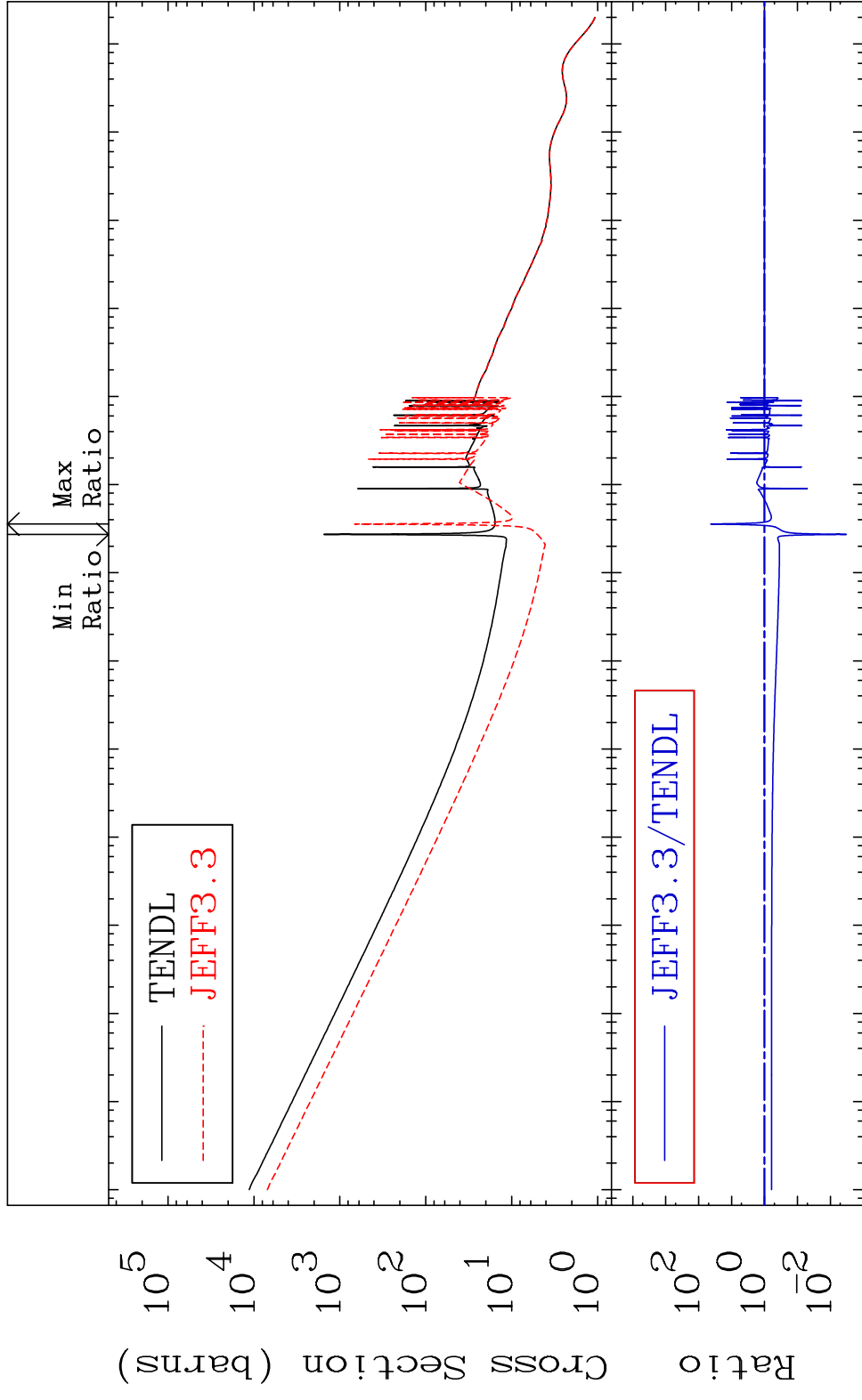
Press Mouse Button to Start

MAT 2716

27-Co-56

Total

Cross Section -99.67 To 4198. %



1

Incident Energy (eV)

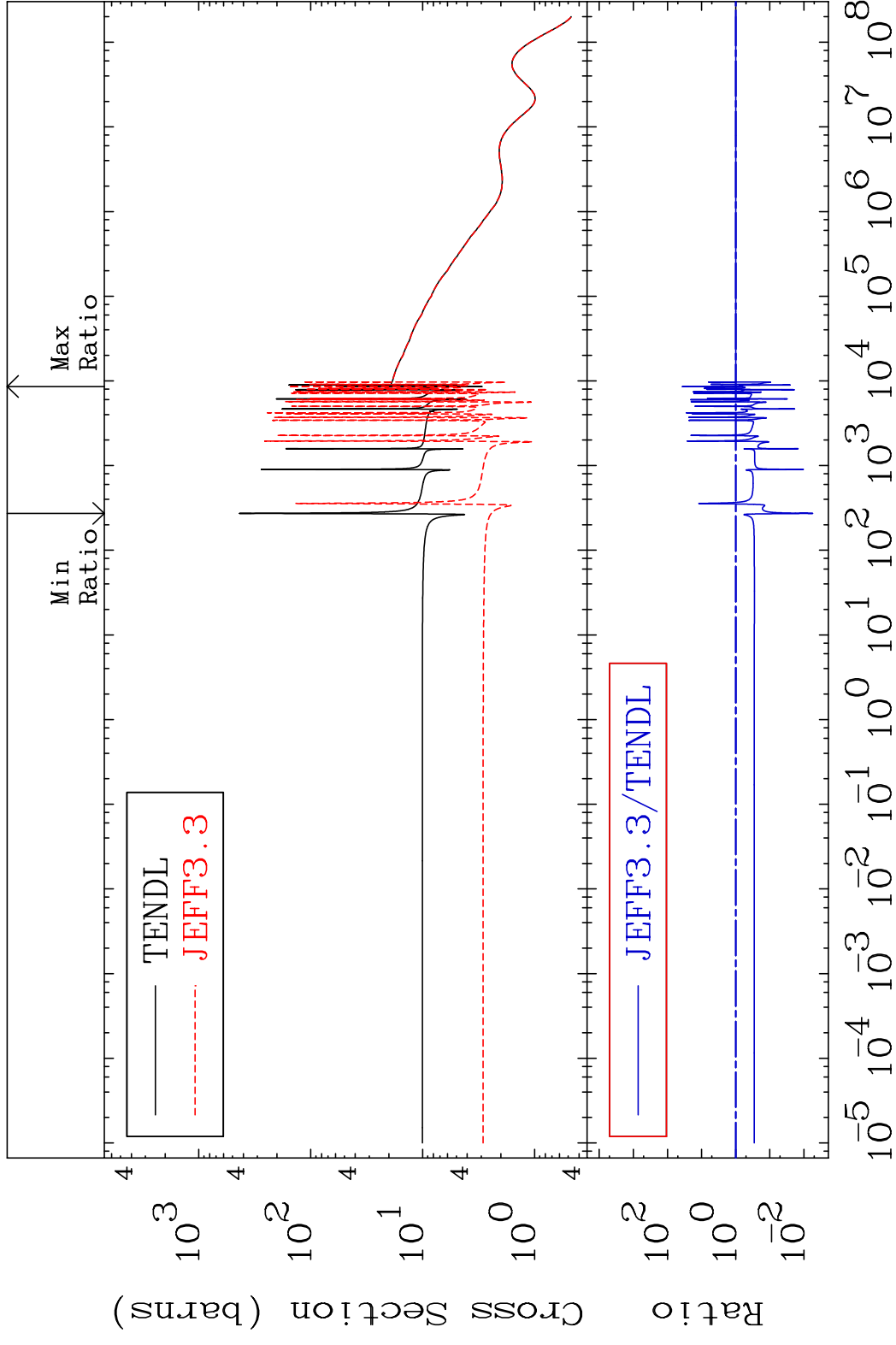
27-Co-56

MAT 2716

Elastic

27-Co-56

Cross Section -99.44 To 3563. %

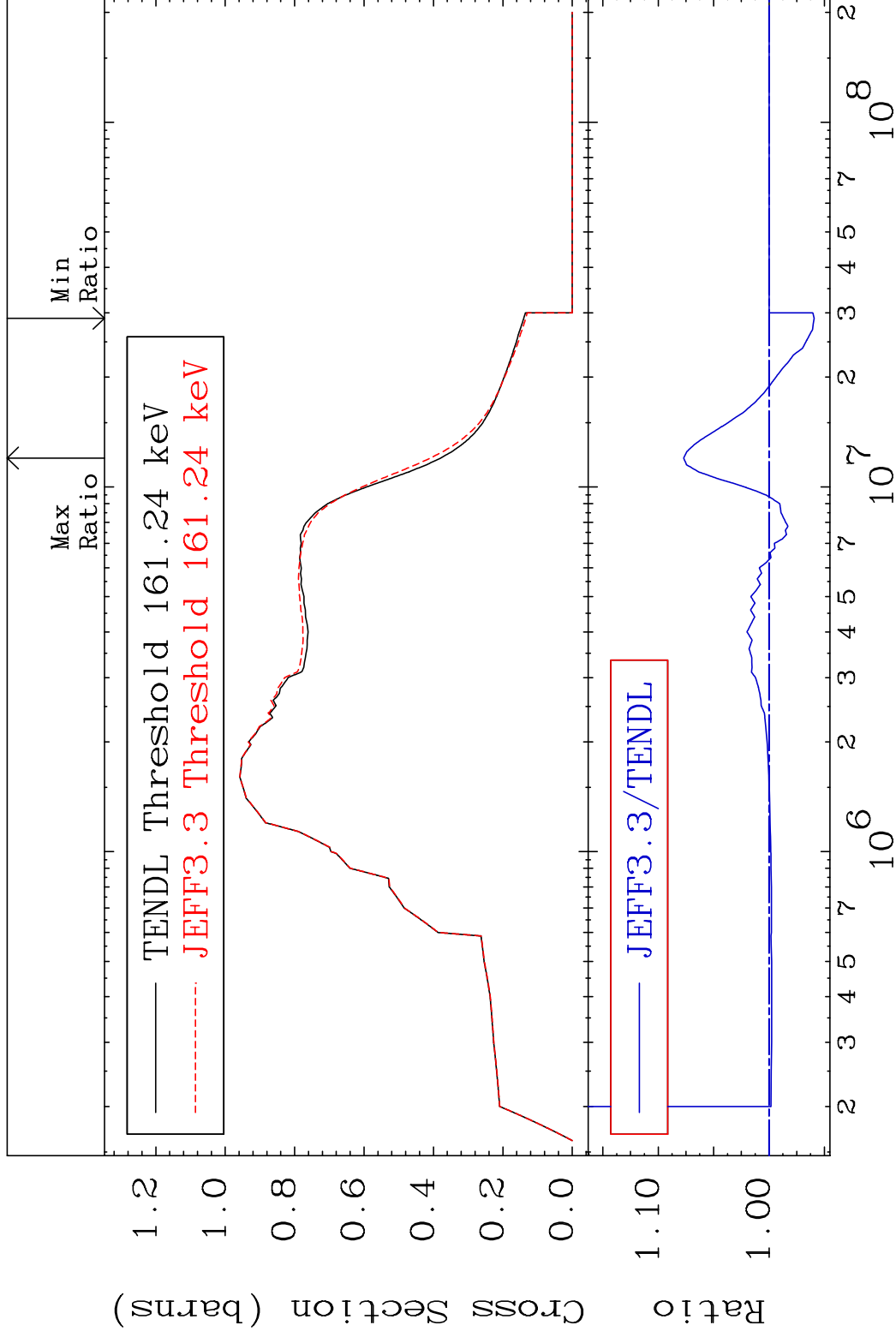


MAT 2716

Inelastic

27-Co-56

Cross Section -4.065 To 7.705 %



3

Incident Energy (eV)

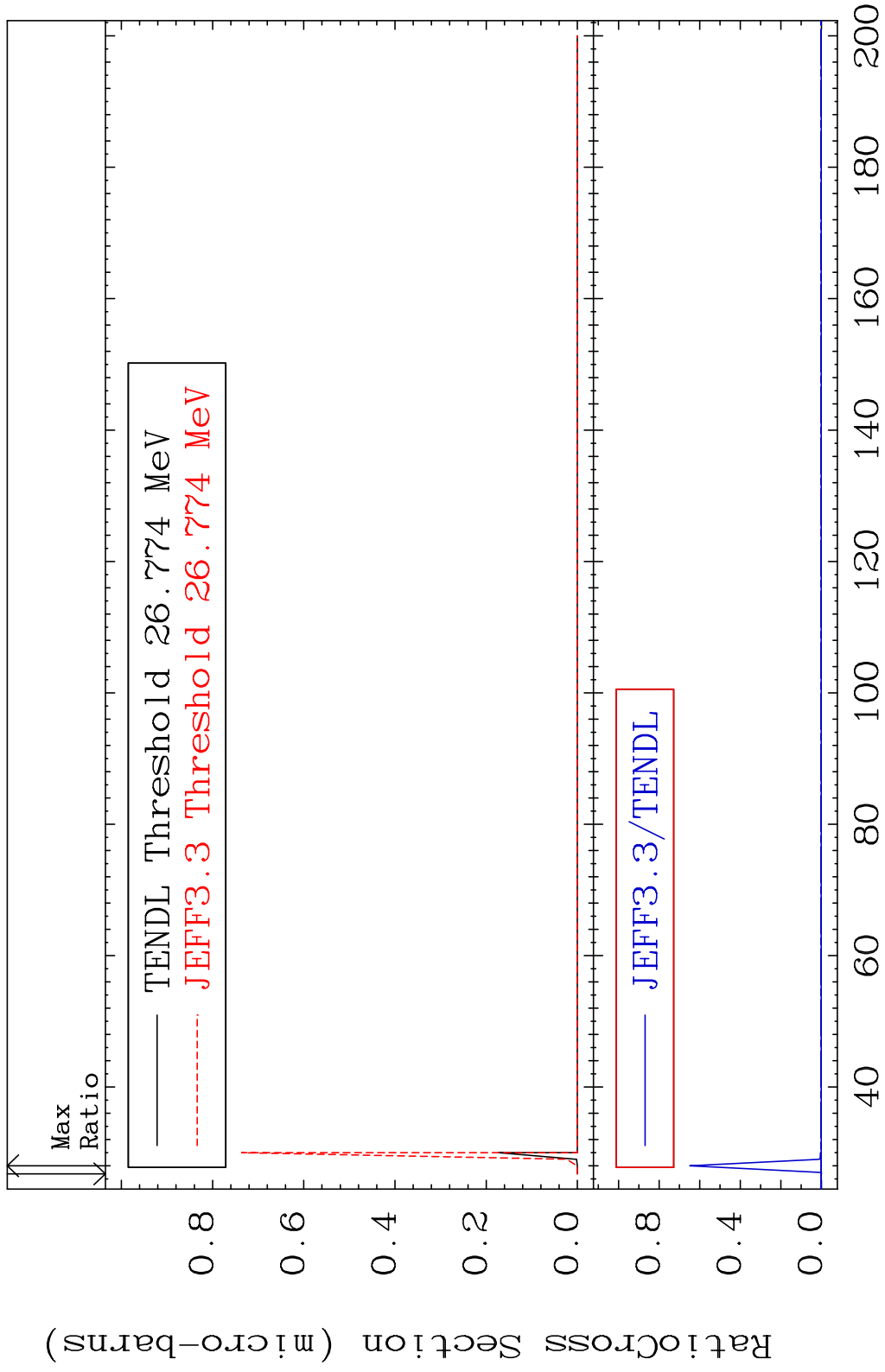
27-Co-56

MAT 2716

(n,2n) d

27-Co-56

Cross Section -100.0 To 9999. %



4

Incident Energy (MeV)

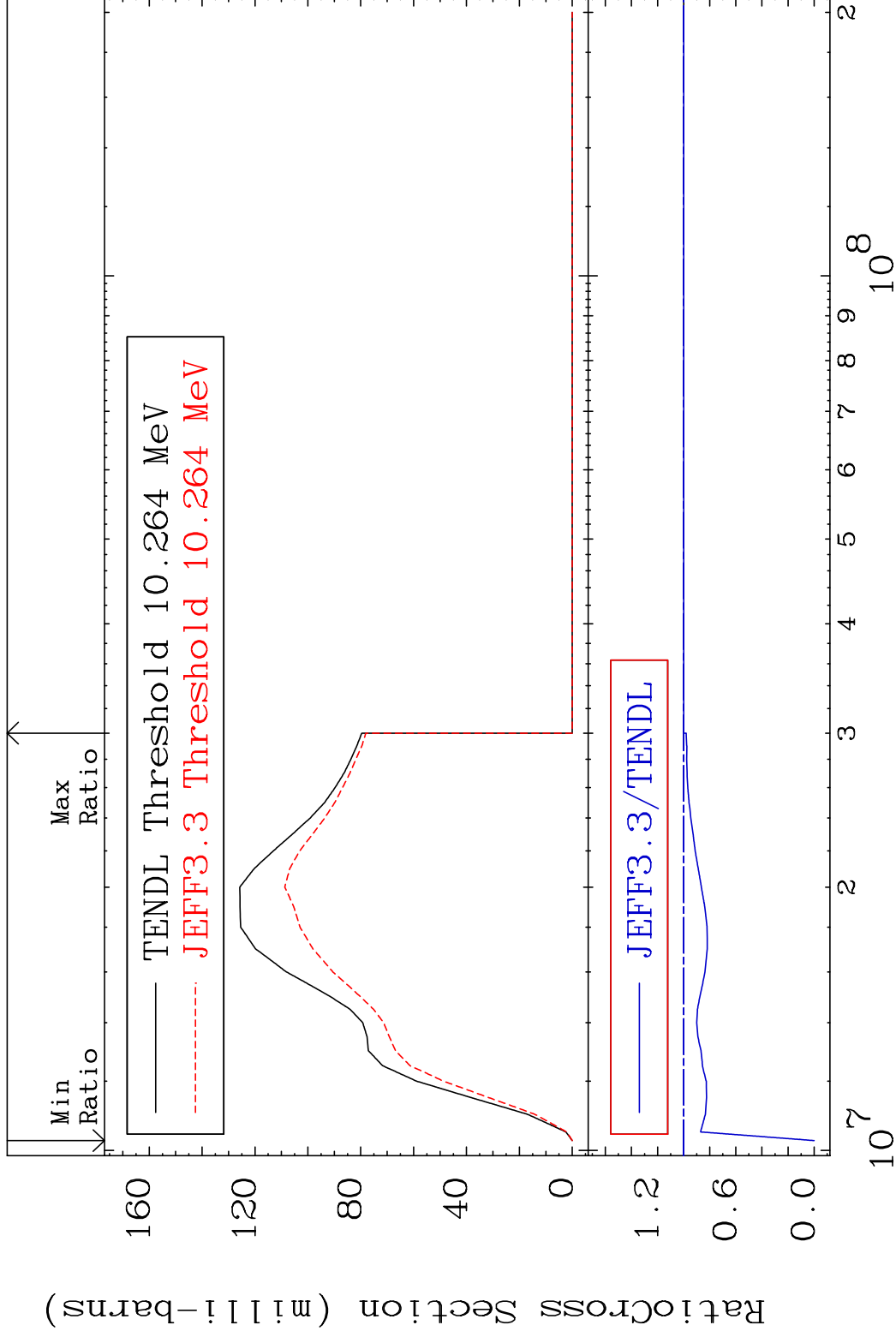
27-Co-56

MAT 2716

(n,2n)

27-Co-56

Cross Section -100.0 To 0.000 %



5

Incident Energy (eV)

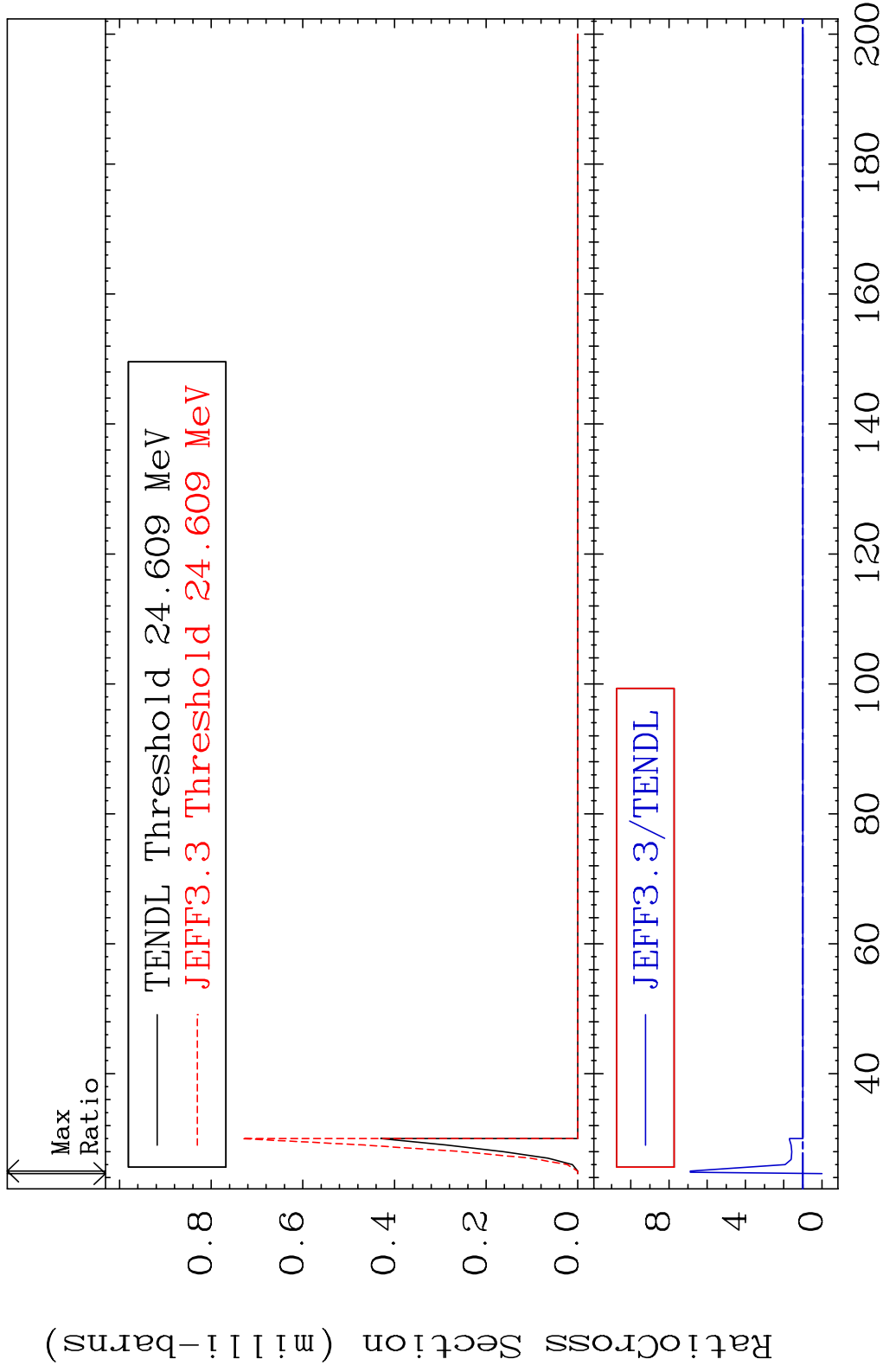
27-Co-56

MAT 2716

(n,3n)

27-Co-56

Cross Section -100.0 To 588.7 %



6

Incident Energy (MeV)

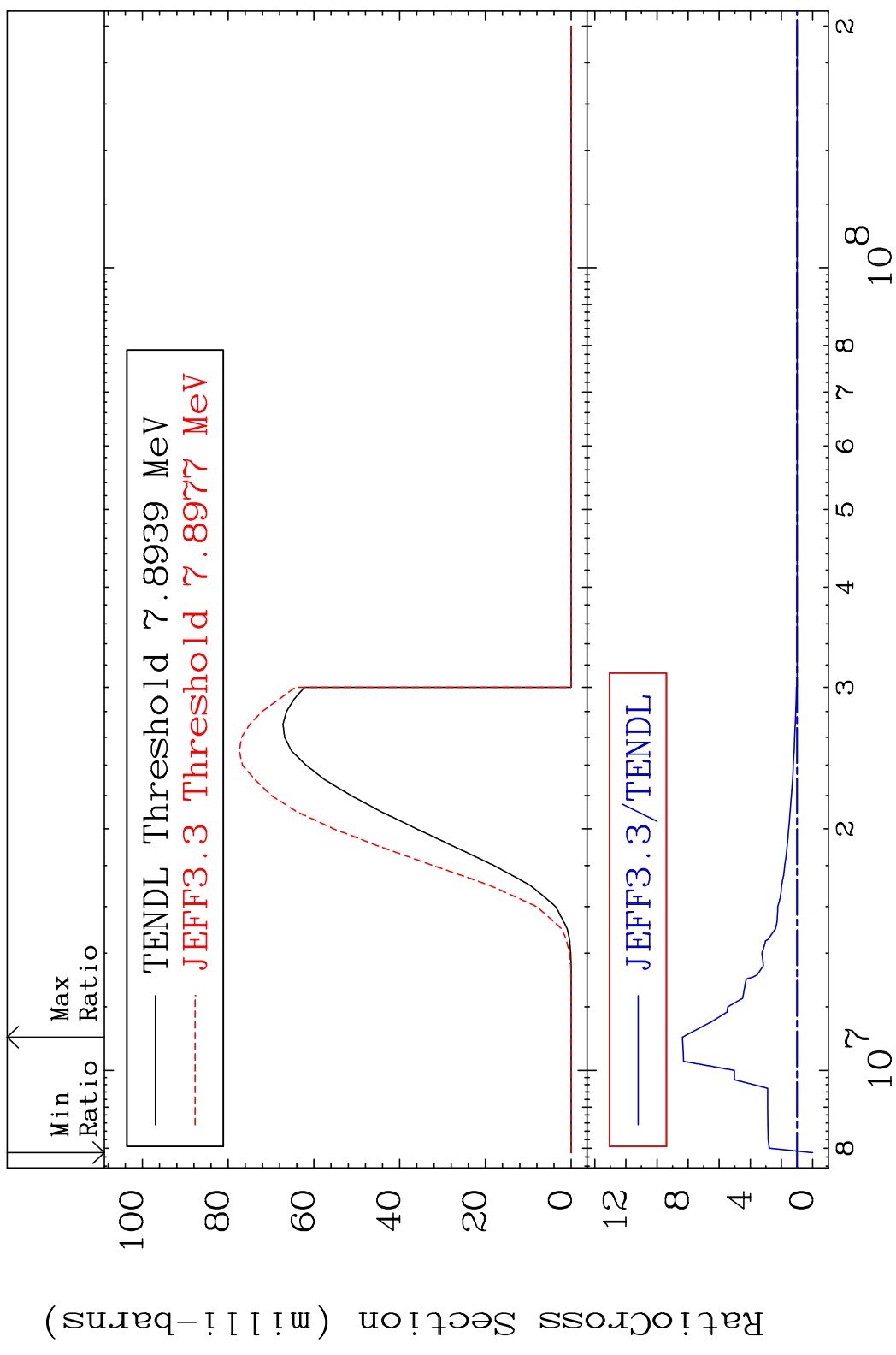
27-Co-56

MAT 2716

(n, n') α

27-Co-56

Cross Section -100.0 To 736.9 %



7

Incident Energy (eV)

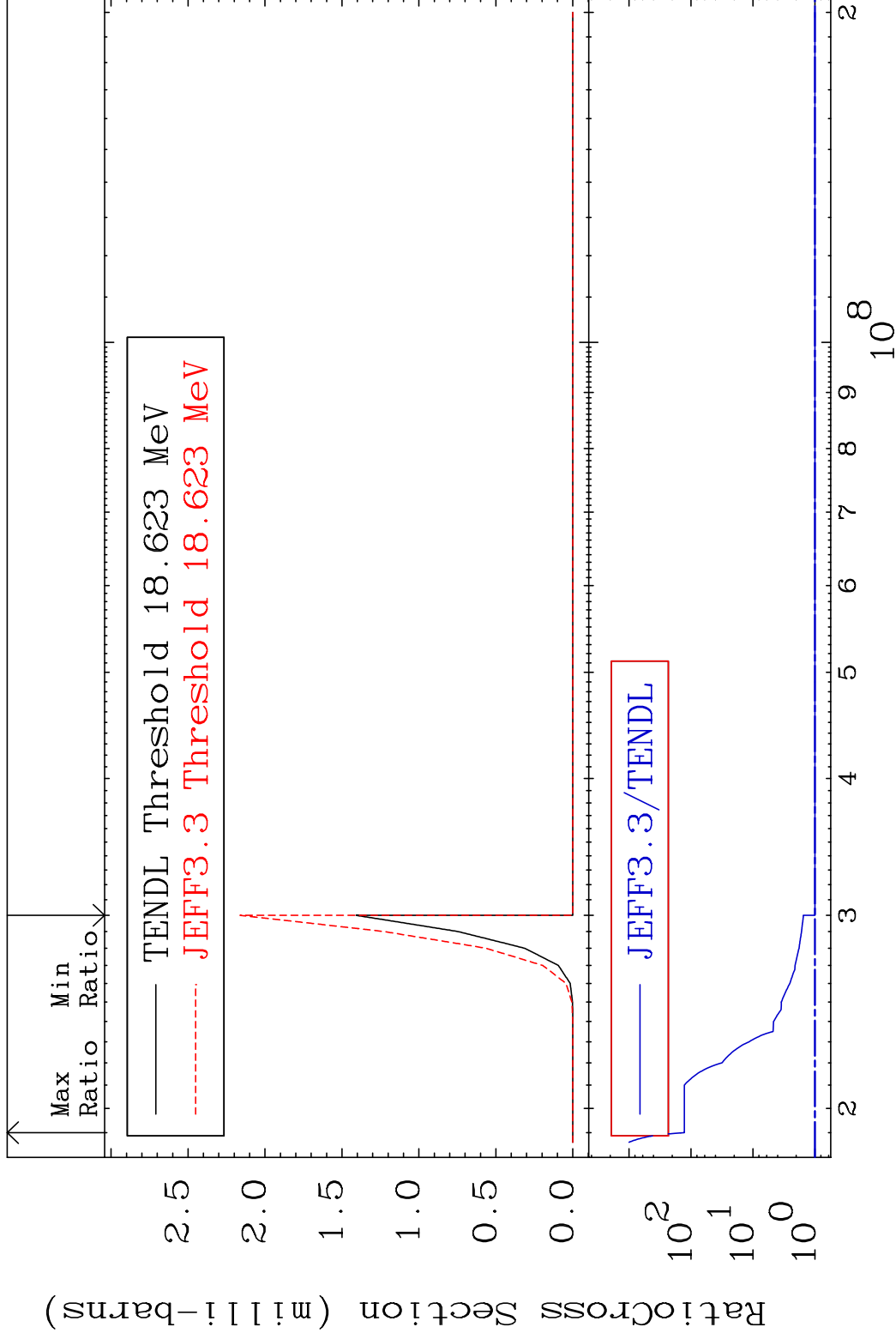
27-Co-56

MAT 2716

(n,2n) α

27-Co-56

Cross Section 0.000 To 9999. %



8

Incident Energy (eV)

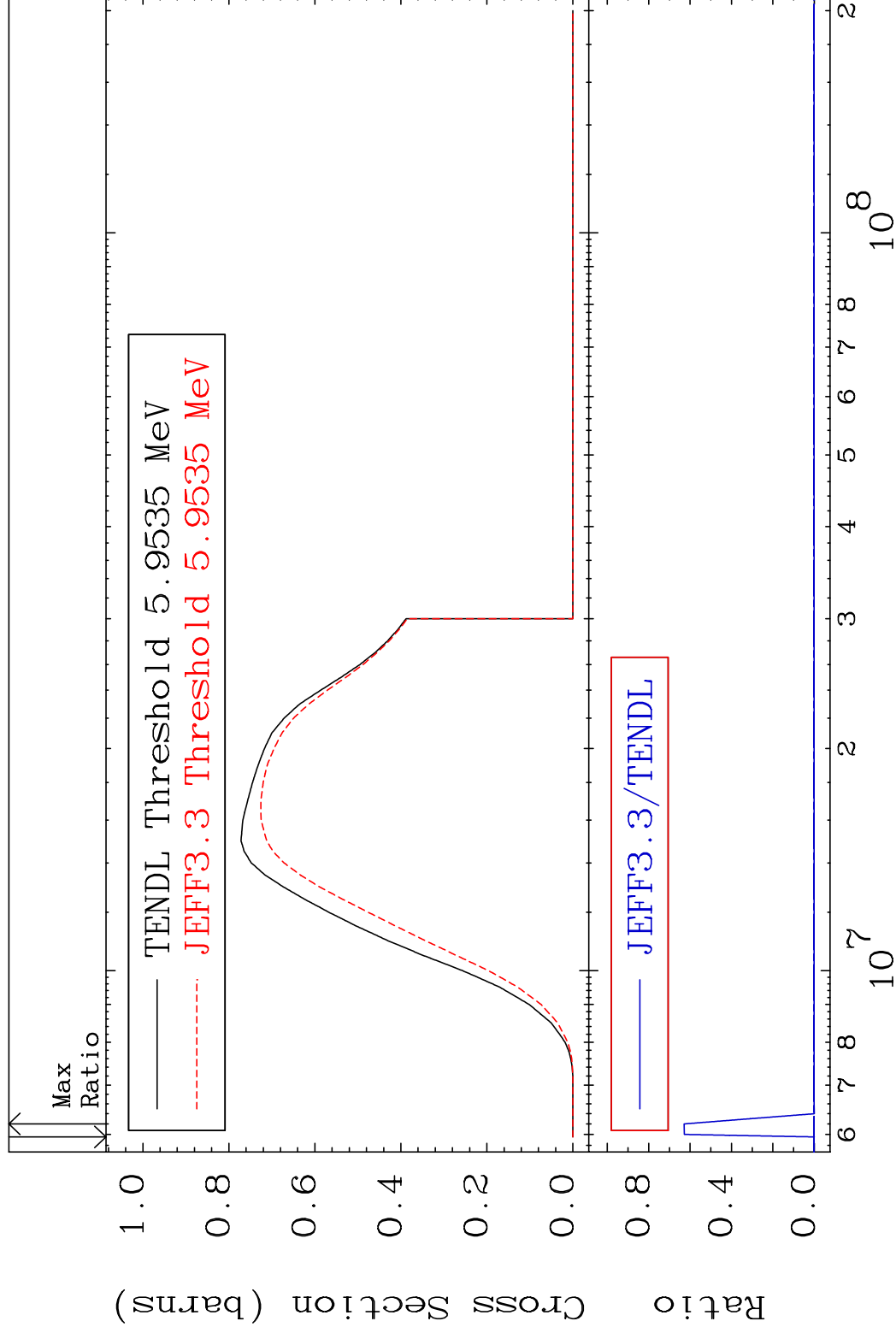
27-Co-56

MAT 2716

(n, n') p

27-Co-56

Cross Section -100.0 To 9999. %



9

Incident Energy (eV)

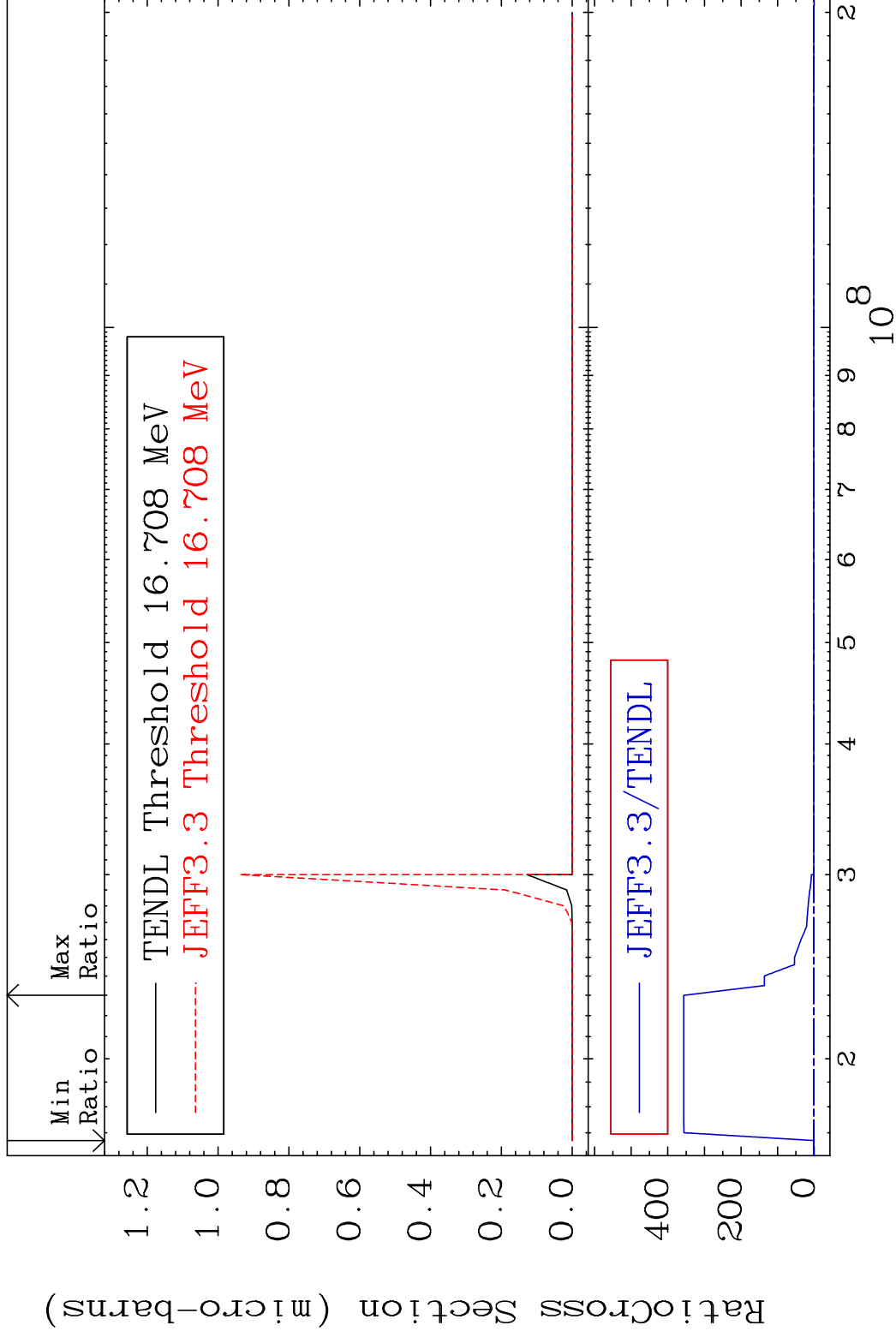
27-Co-56

MAT 2716

(n, n') 2 α

27-Co-56

Cross Section -100.0 To 9999. %



10

Incident Energy (eV)

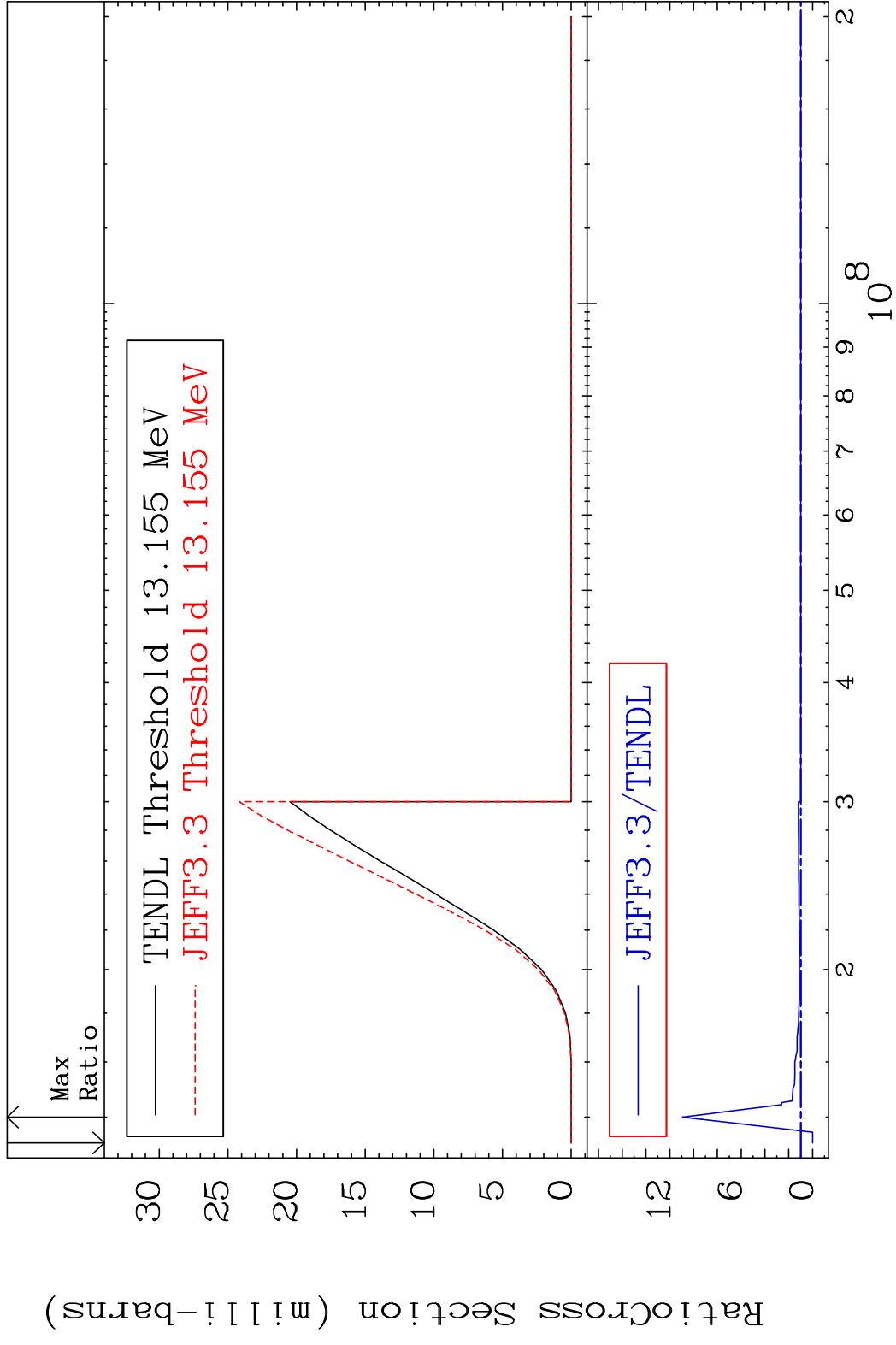
27-Co-56

MAT 2716

(n, n') d

27-Co-56

Cross Section -100.0 To 994.1 %

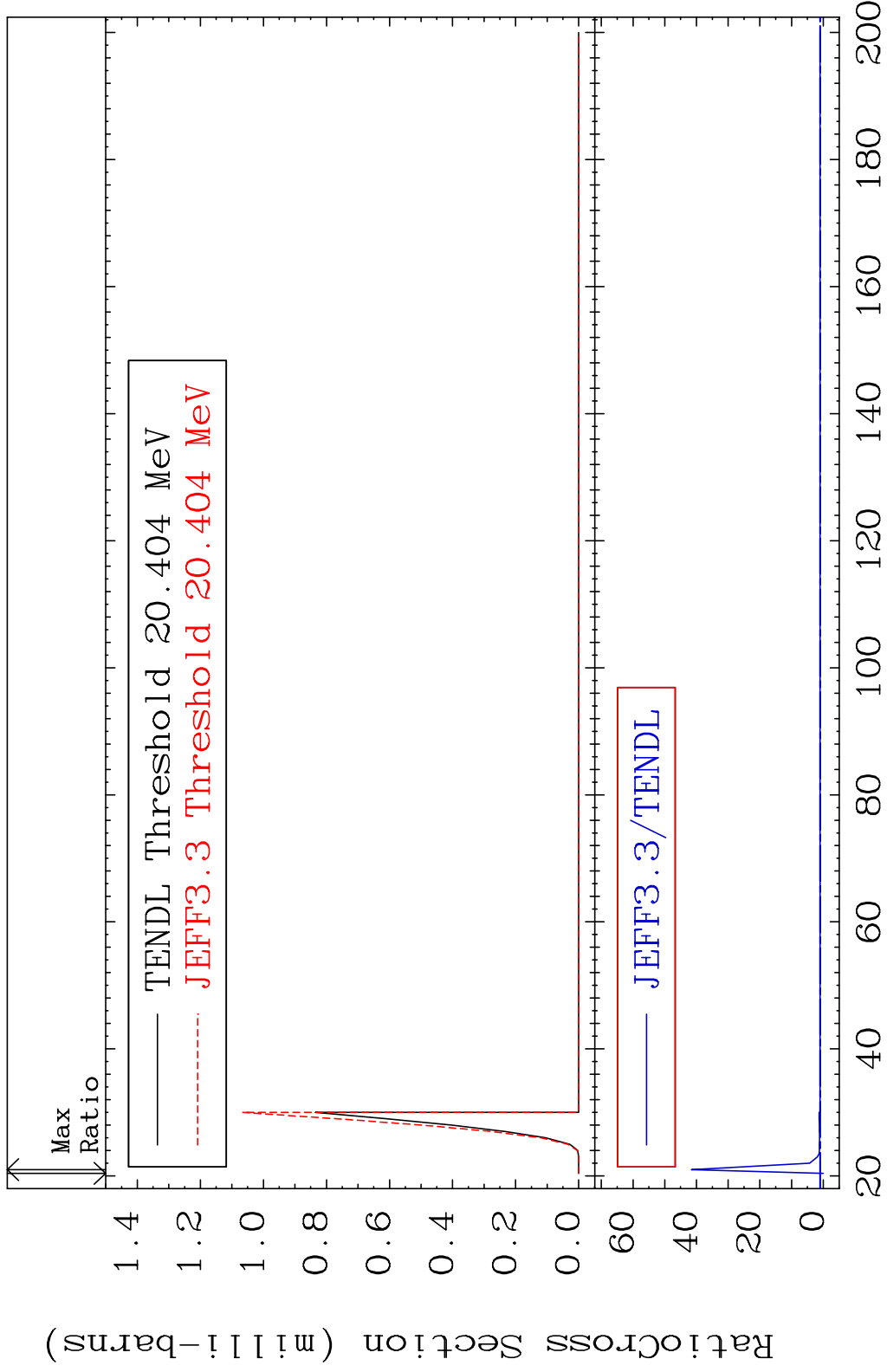


MAT 2716

(n, n') t

27-Co-56

Cross Section -100.0 To 4062. %



12

Incident Energy (MeV)

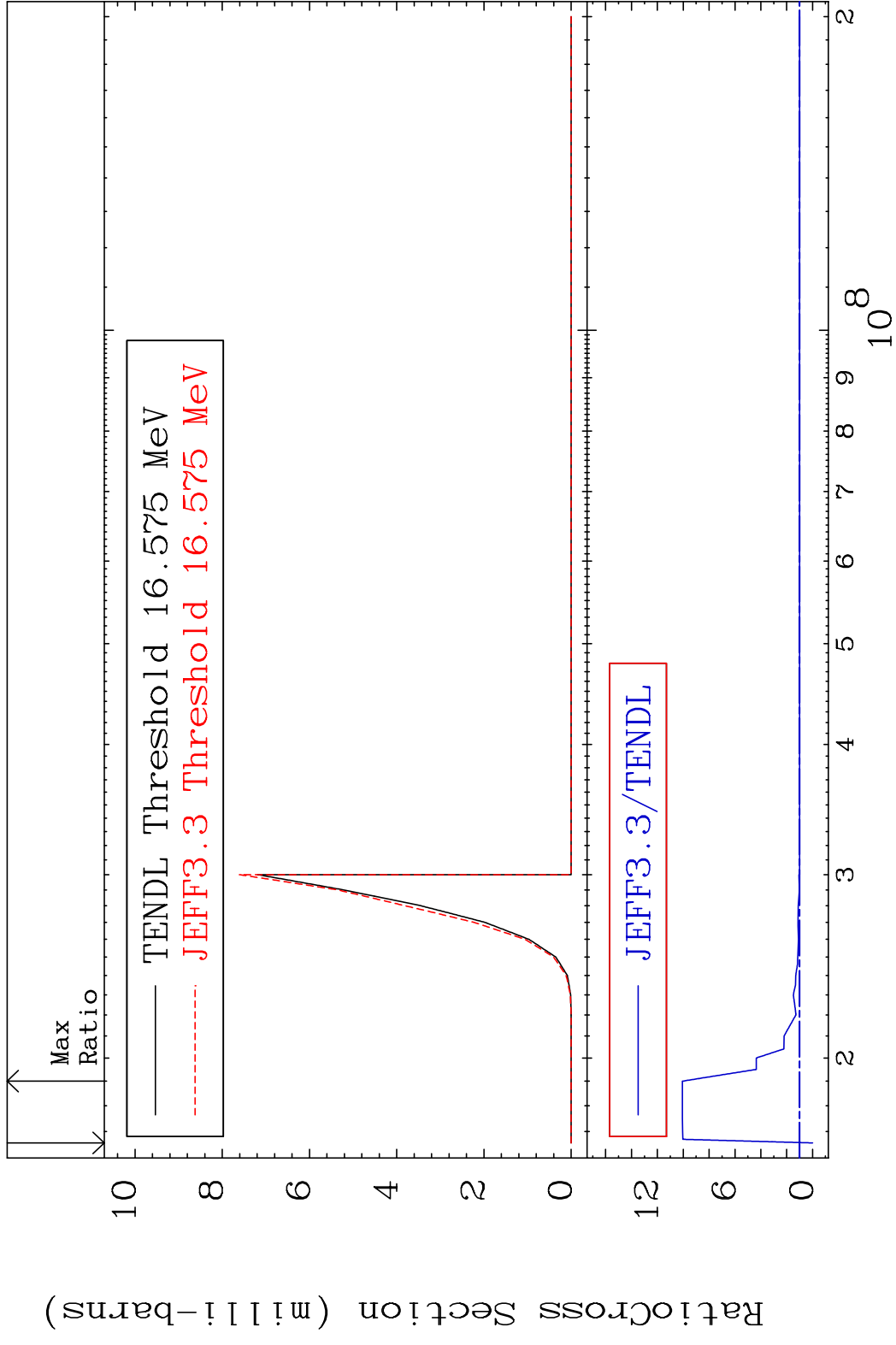
27-Co-56

MAT 2716

(n,n') He-3

27-Co-56

Cross Section -100.0 To 906.7 %

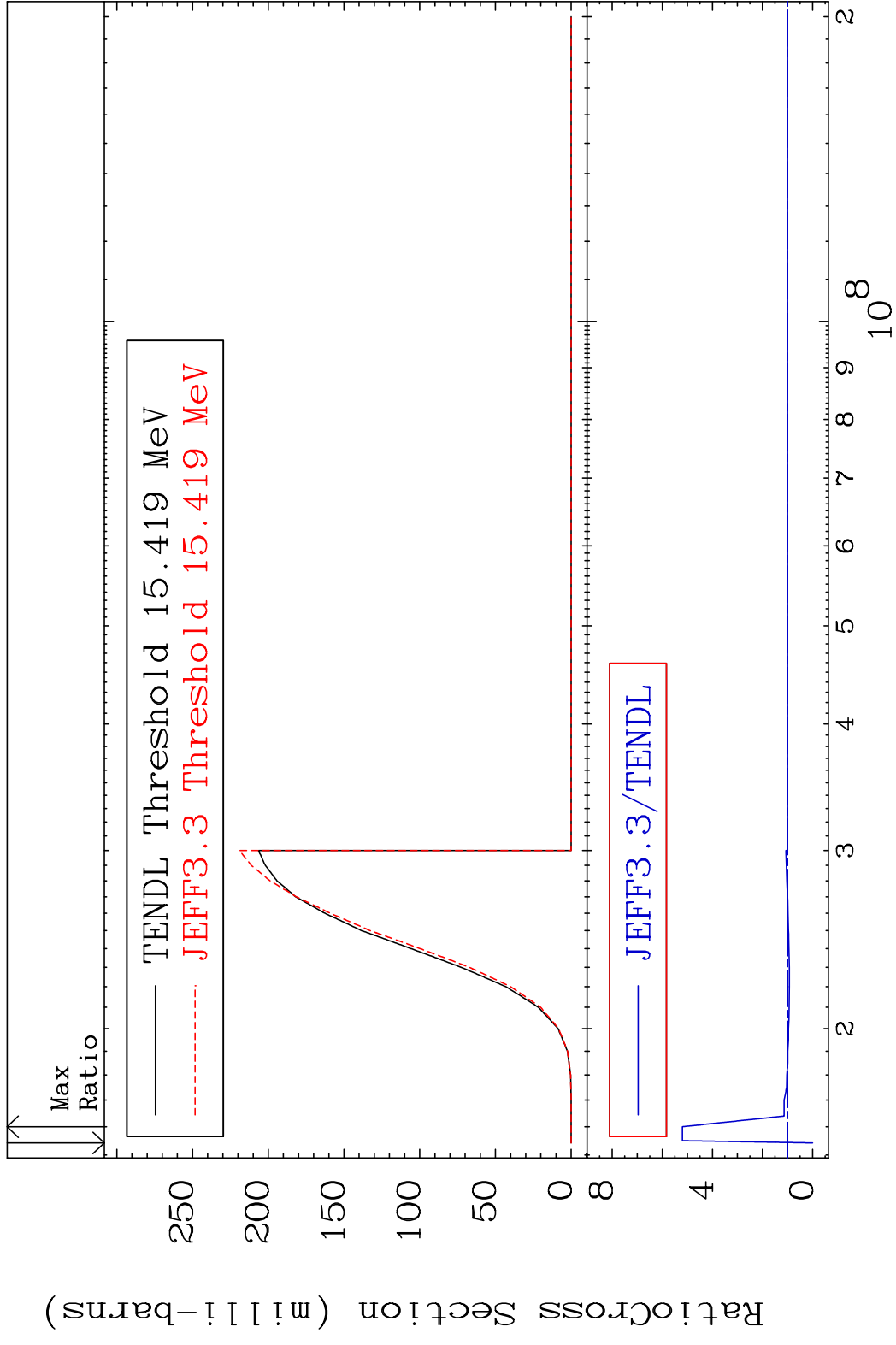


MAT 2716

(n,2n) p

27-Co-56

Cross Section -100.0 To 419.9 %

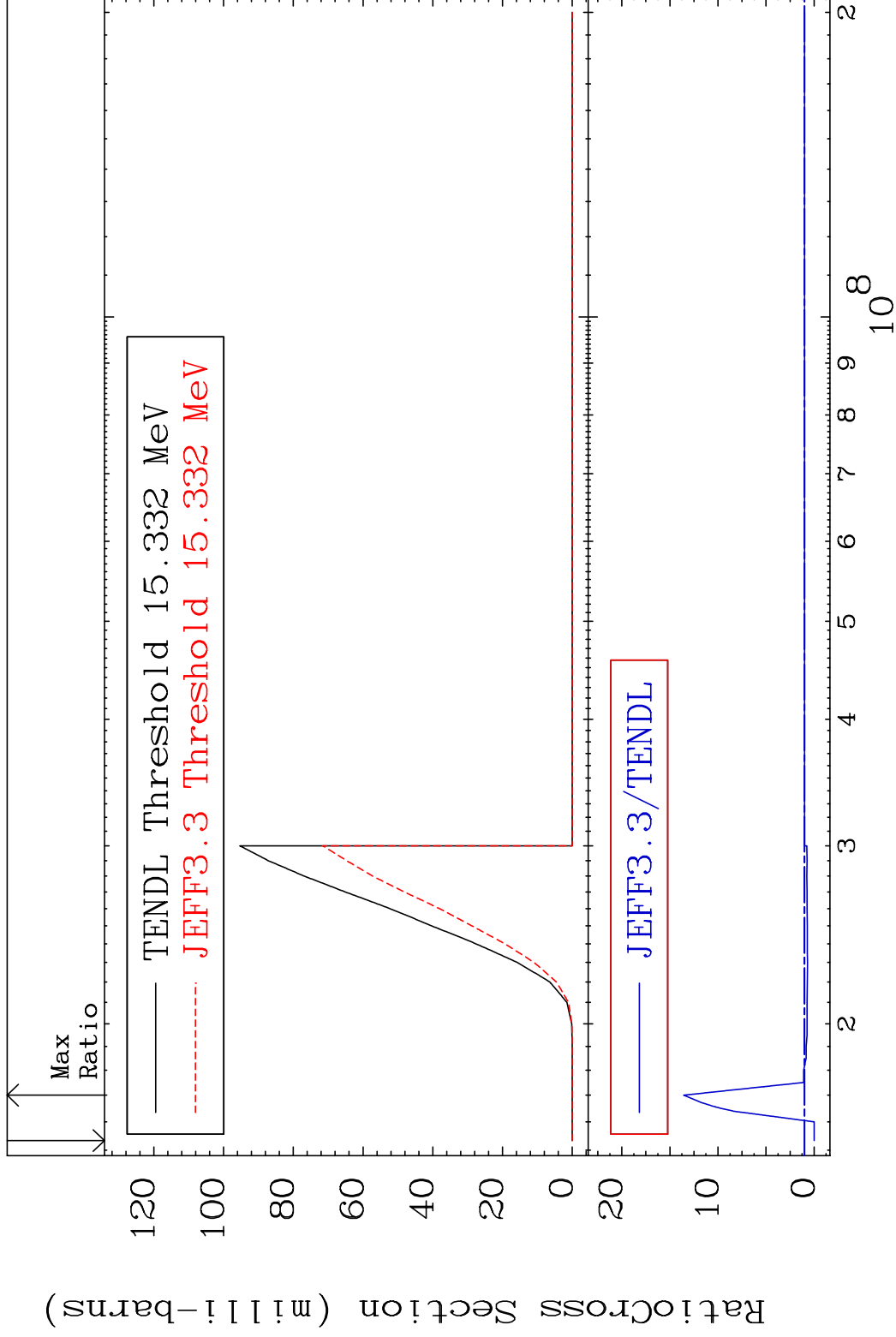


MAT 2716

(n,2n) p

27-Co-56

Cross Section -100.0 To 1257. %



15

Incident Energy (eV)

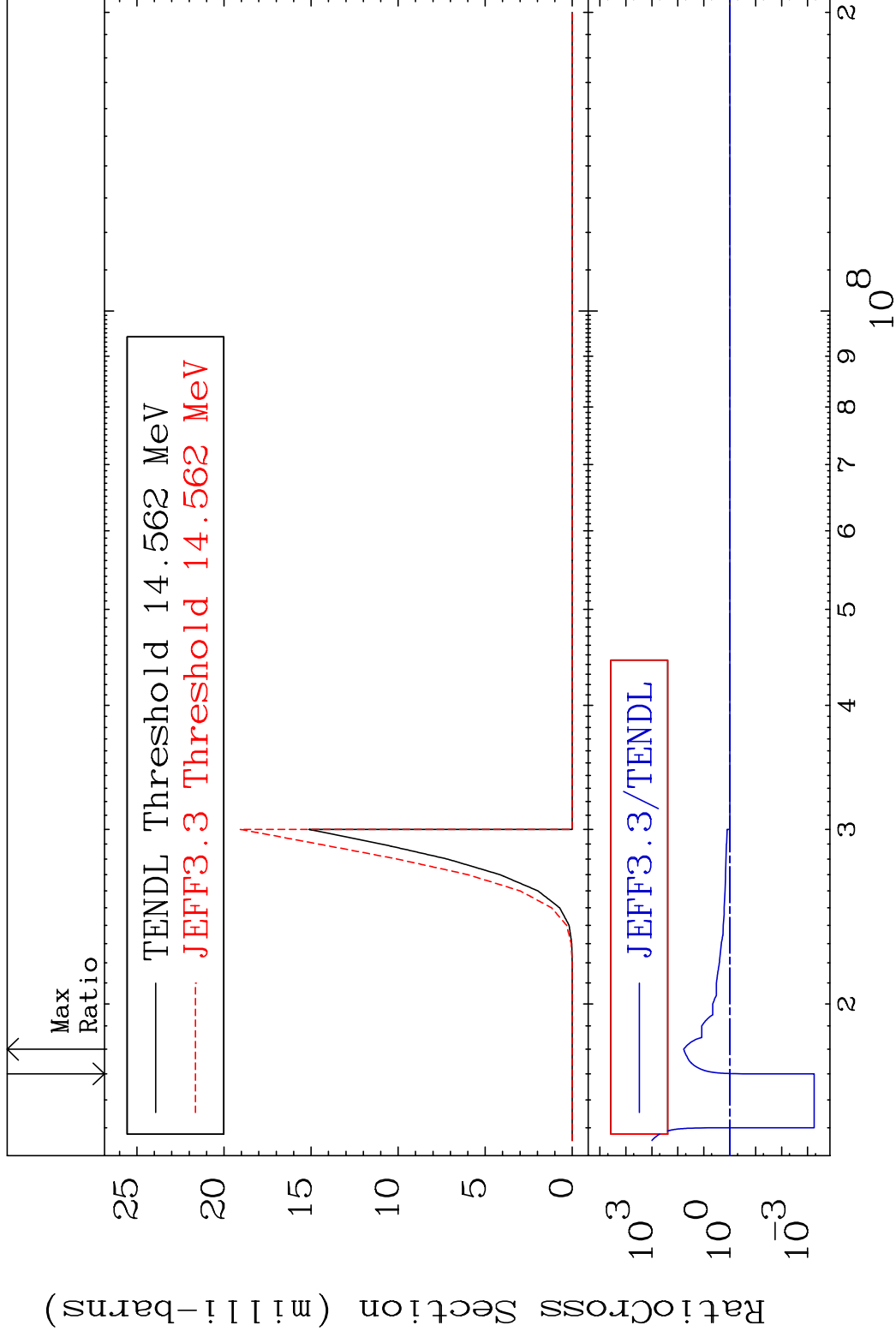
27-Co-56

MAT 2716

(n,n') p α

27-Co-56

Cross Section -99.94 To 5860. %

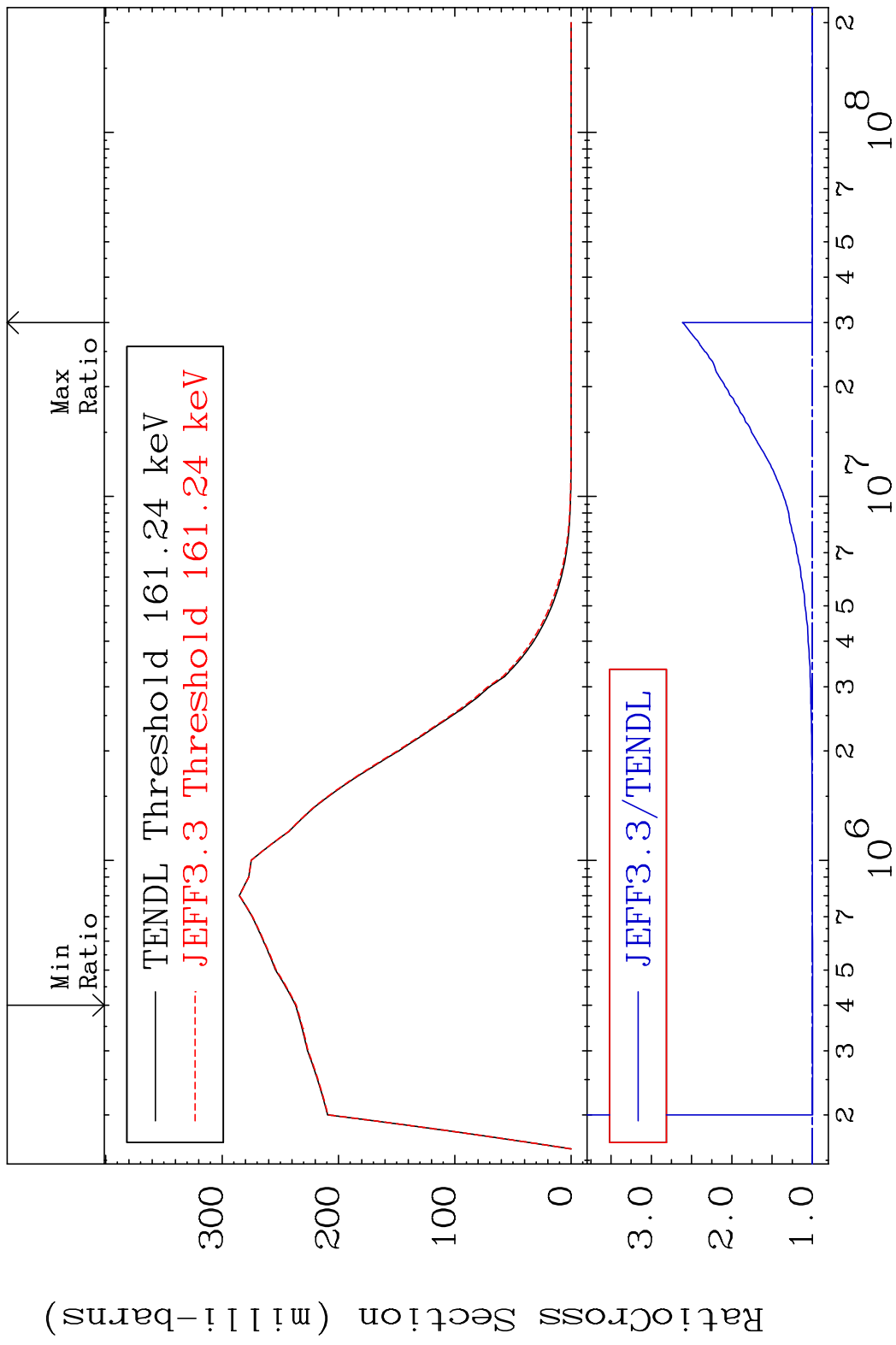


16

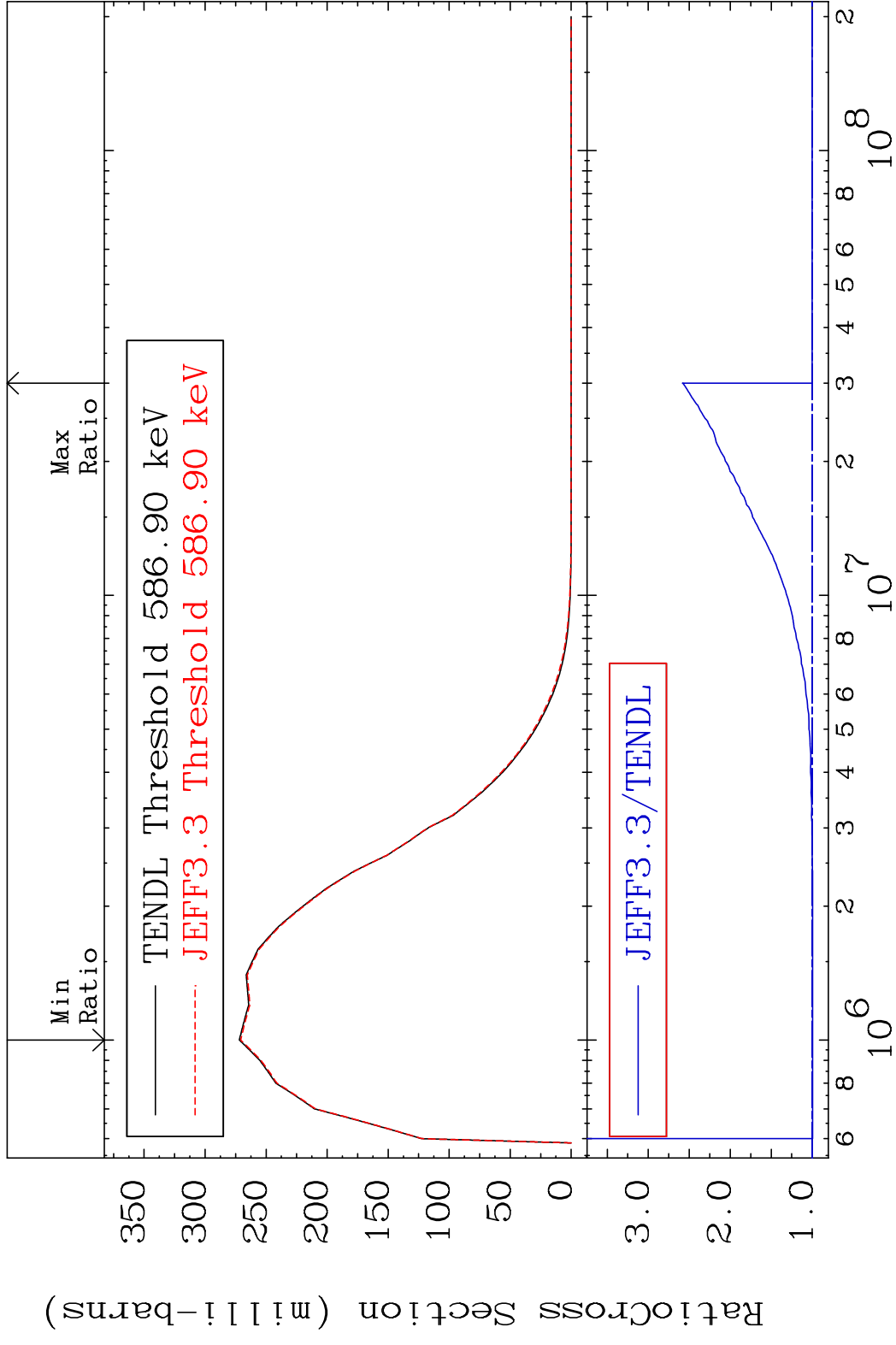
Incident Energy (eV)

27-Co-56

MAT 2716 MT= 51 (n, n') Level 27-Co-56
 Cross Section -0.244 To 161.4 %



MAT 2716 MT= 52 (n, n') Level 27-Co-56
 Cross Section -0.390 To 158.4 %

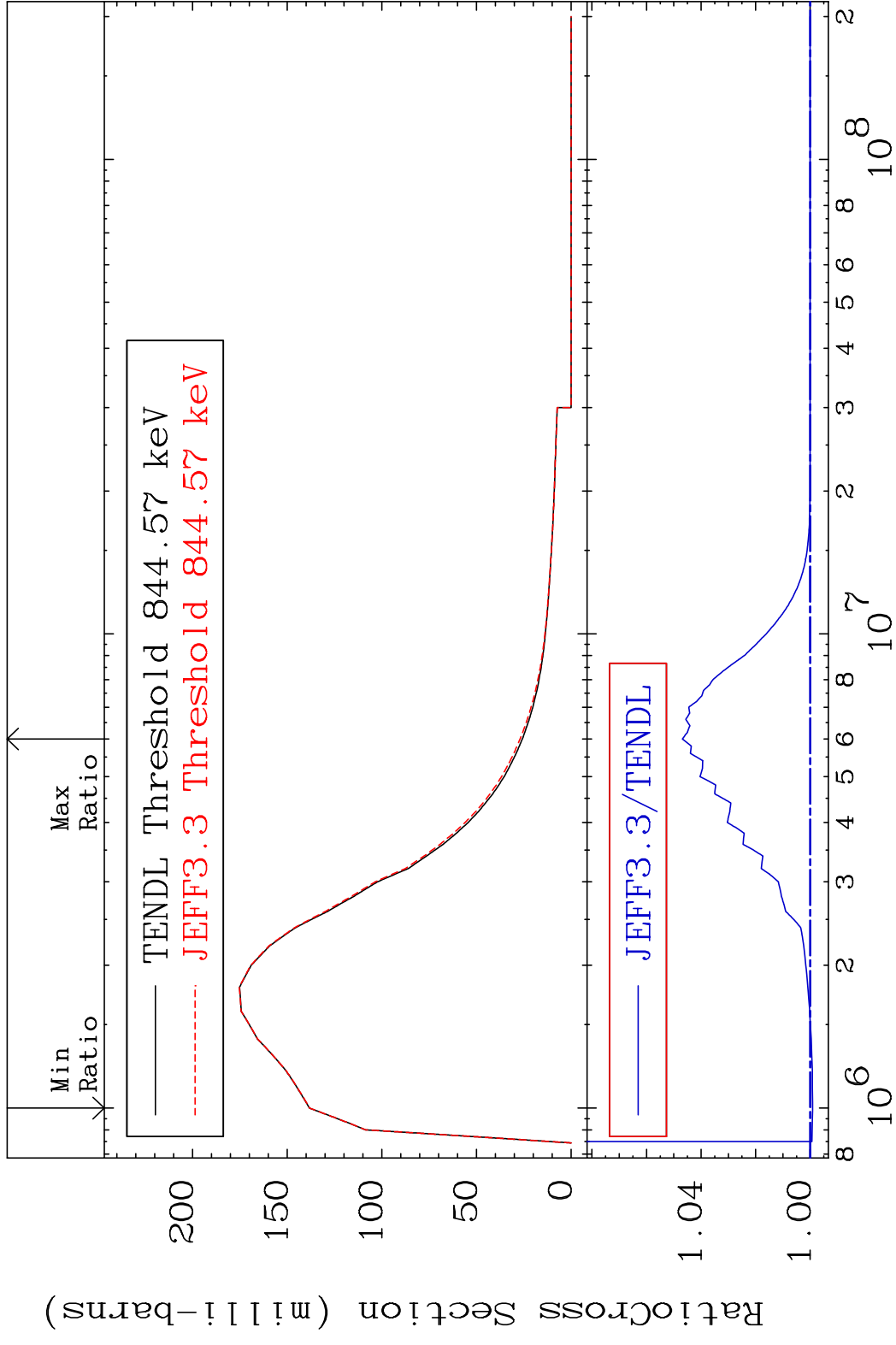


MAT 2716

MT= 53 (n, n') Level

27-Co-56

Cross Section -0.087 To 4.686 %

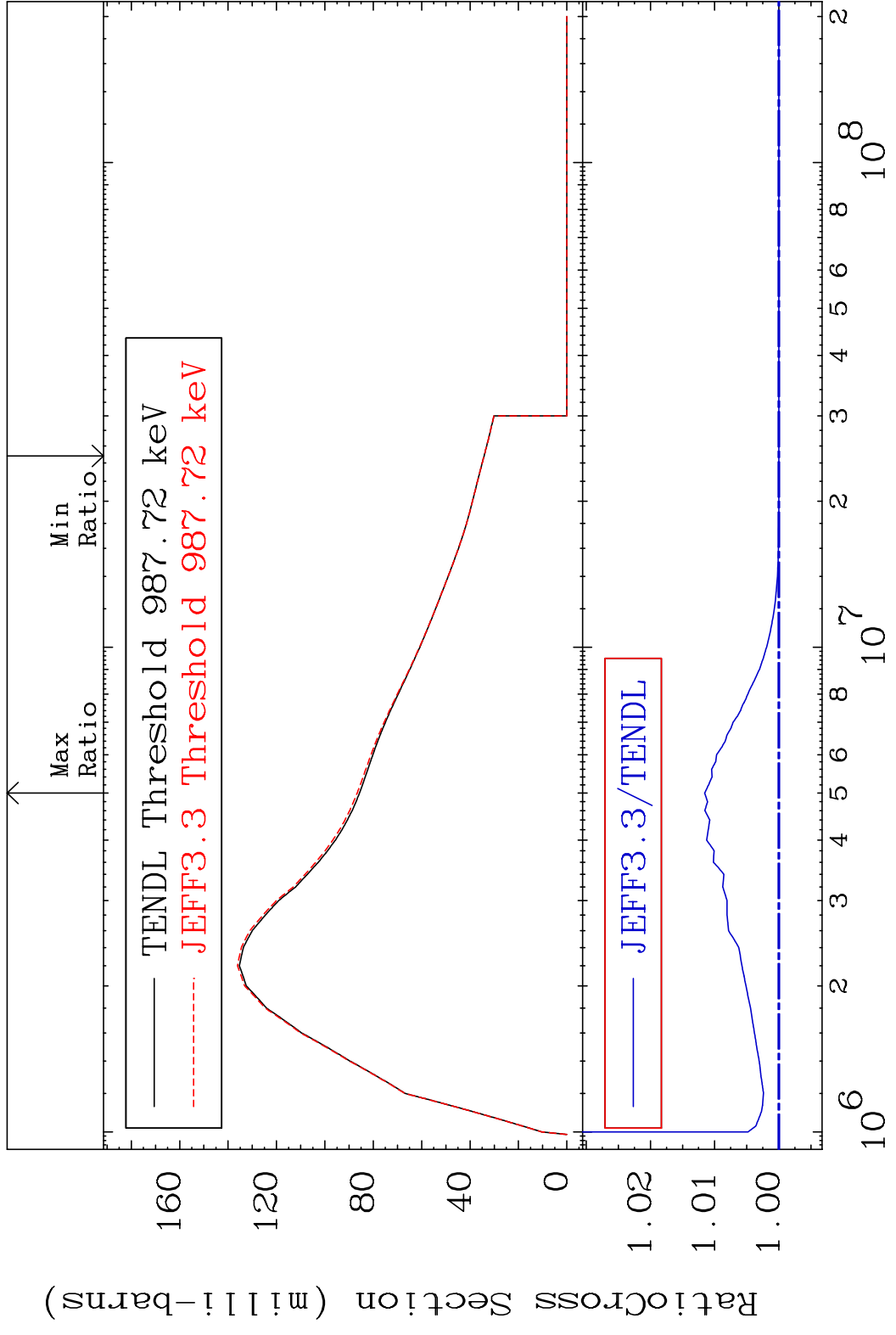


19

Incident Energy (eV)

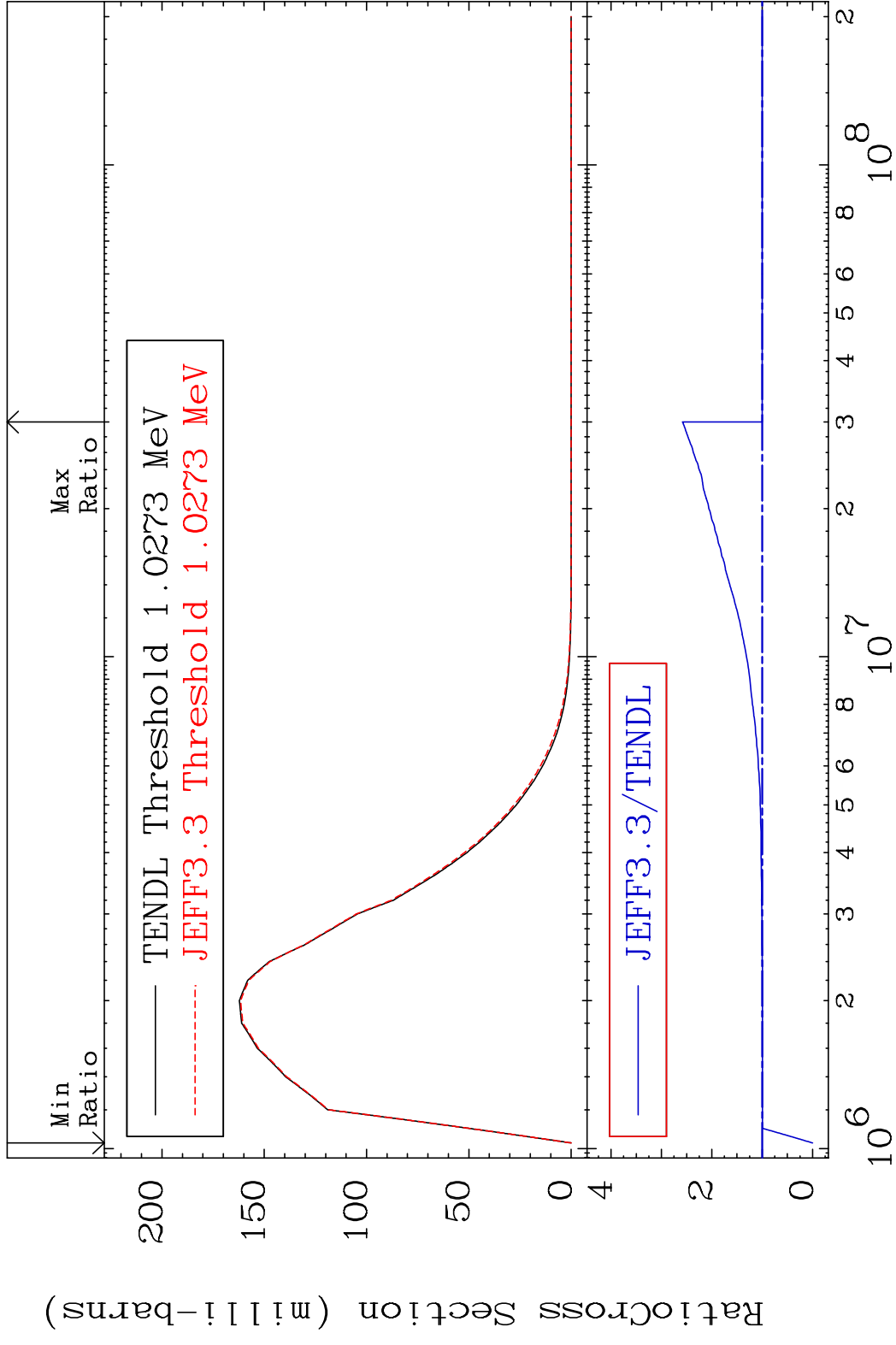
27-Co-56

MAT 2716 MT= 54 (n, n') Level 27-Co-56
 Cross Section 0.000 To 1.155 %

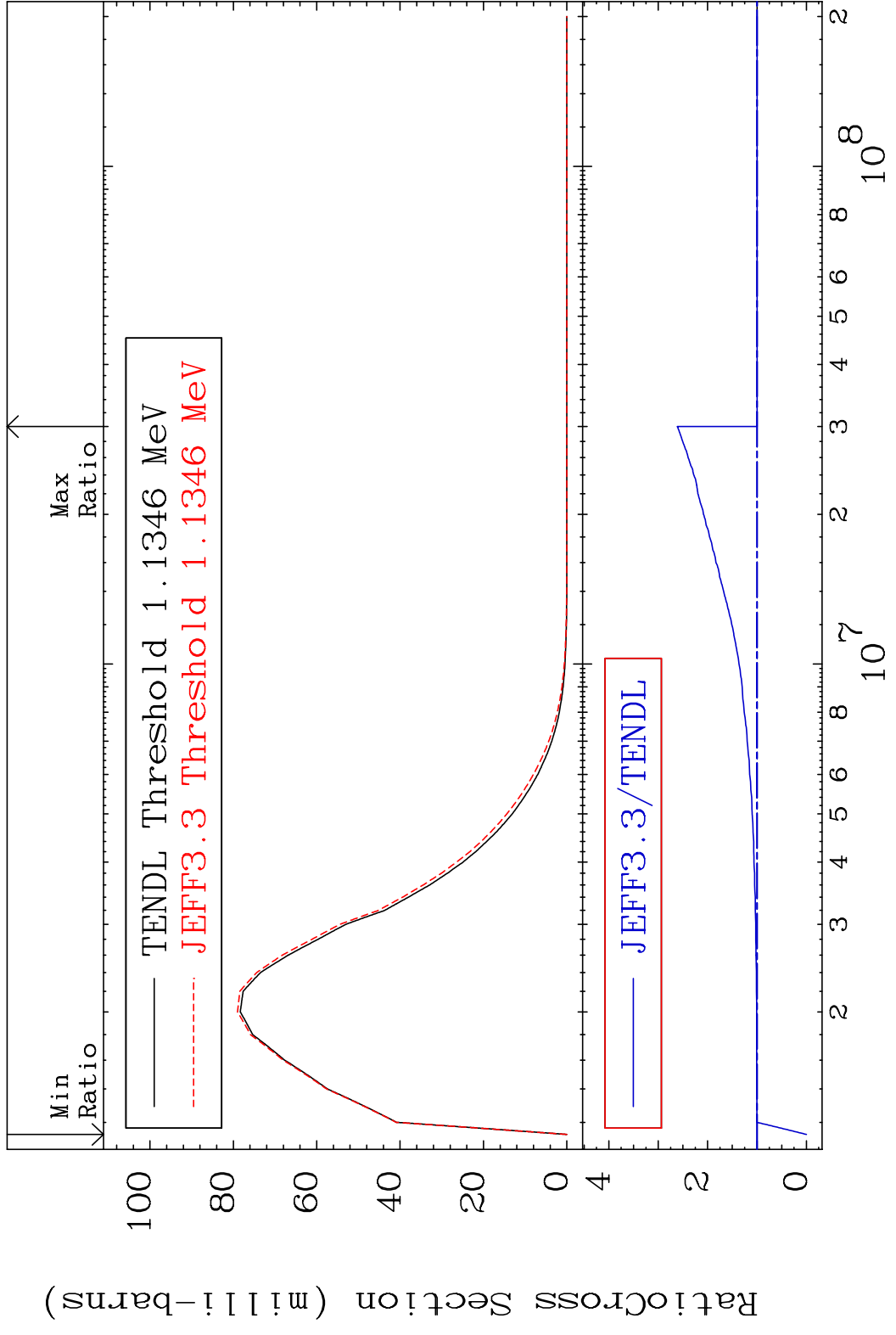


20 Incident Energy (eV) 27-Co-56

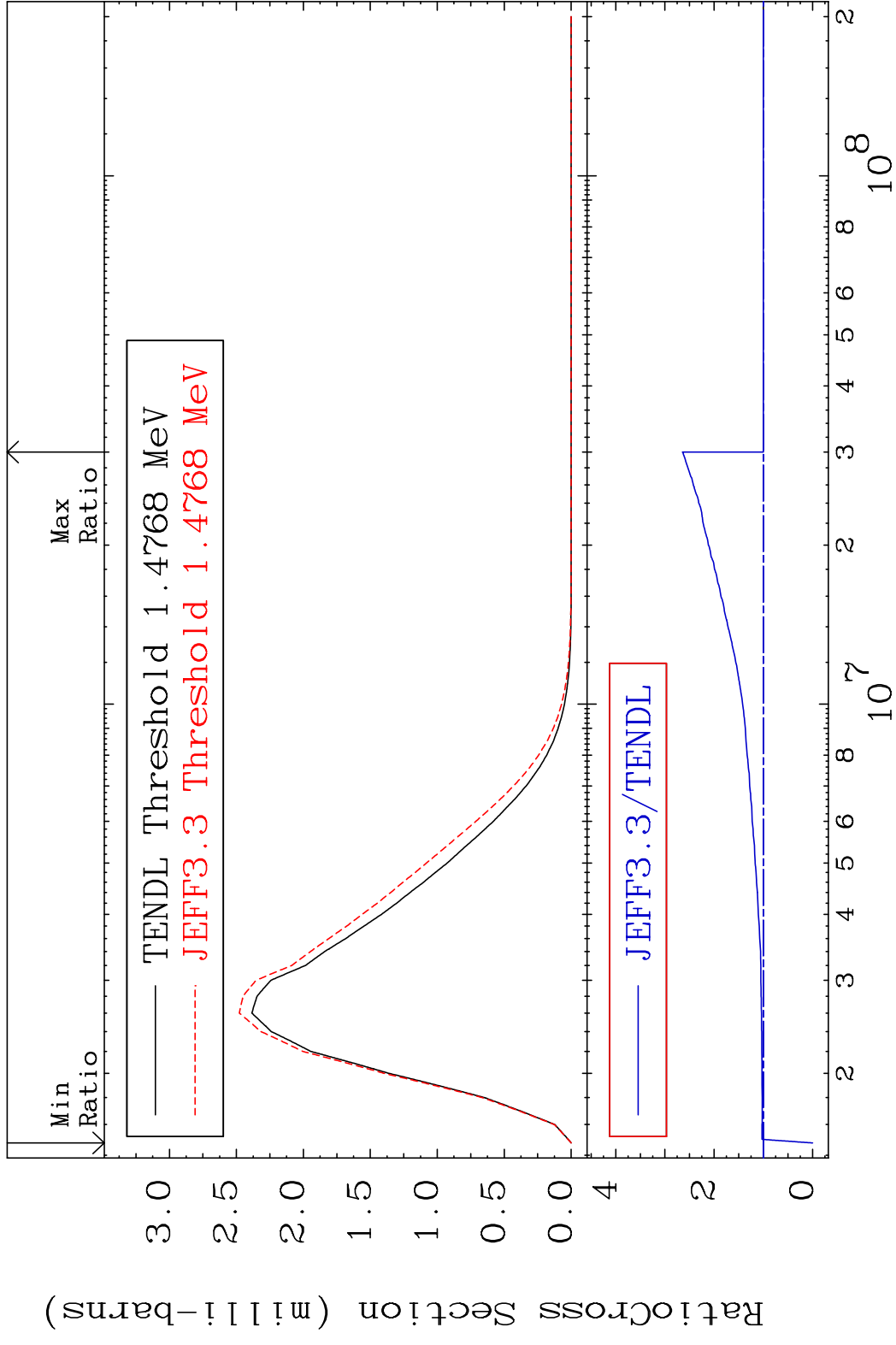
MAT 2716 MT= 55 (n, n') Level 27-Co-56
 Cross Section -100.0 To 158.4 %



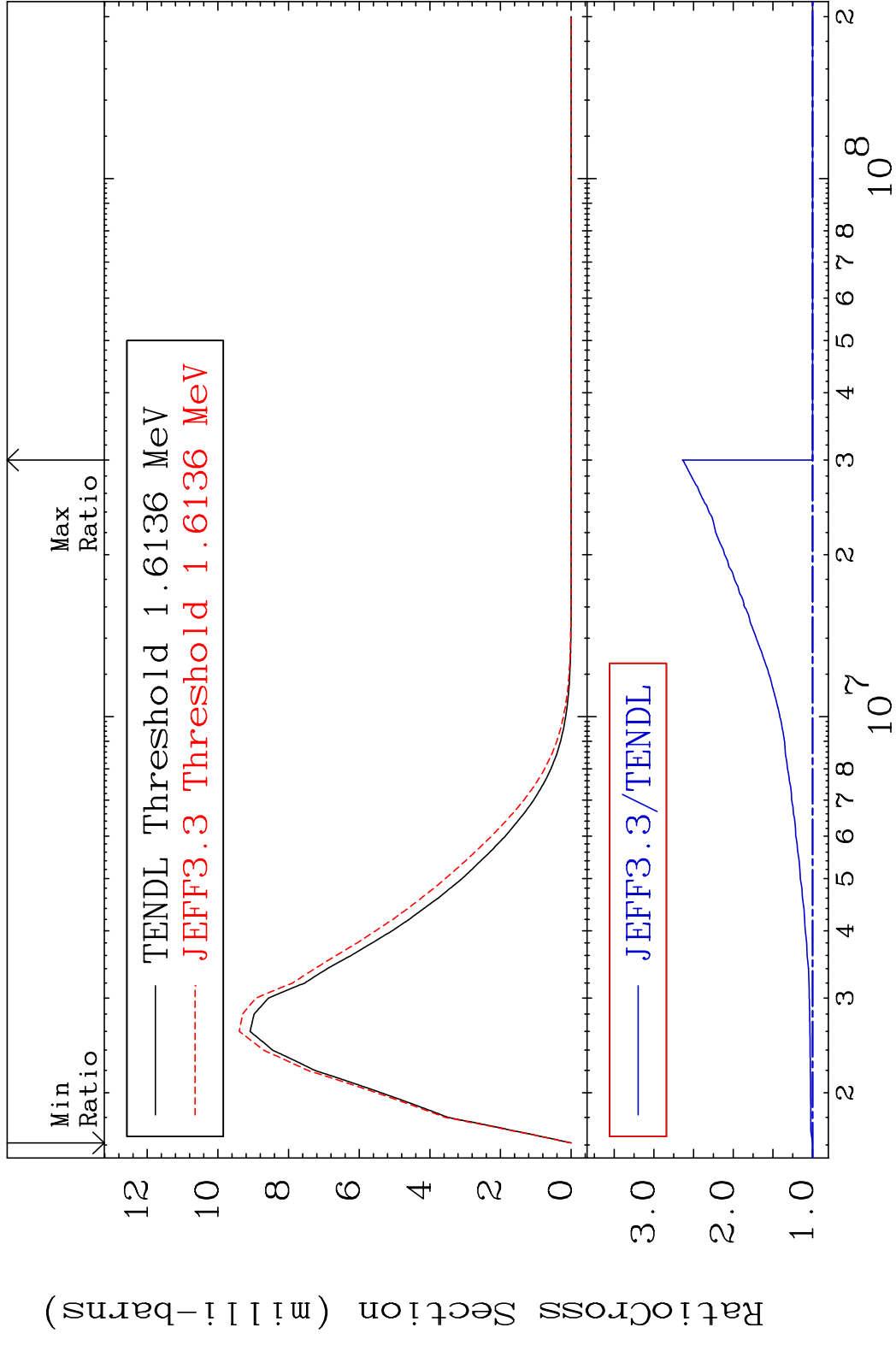
MAT 2716 MT= 56 (n, n') Level 27-Co-56
 Cross Section -100.0 To 161.6 %



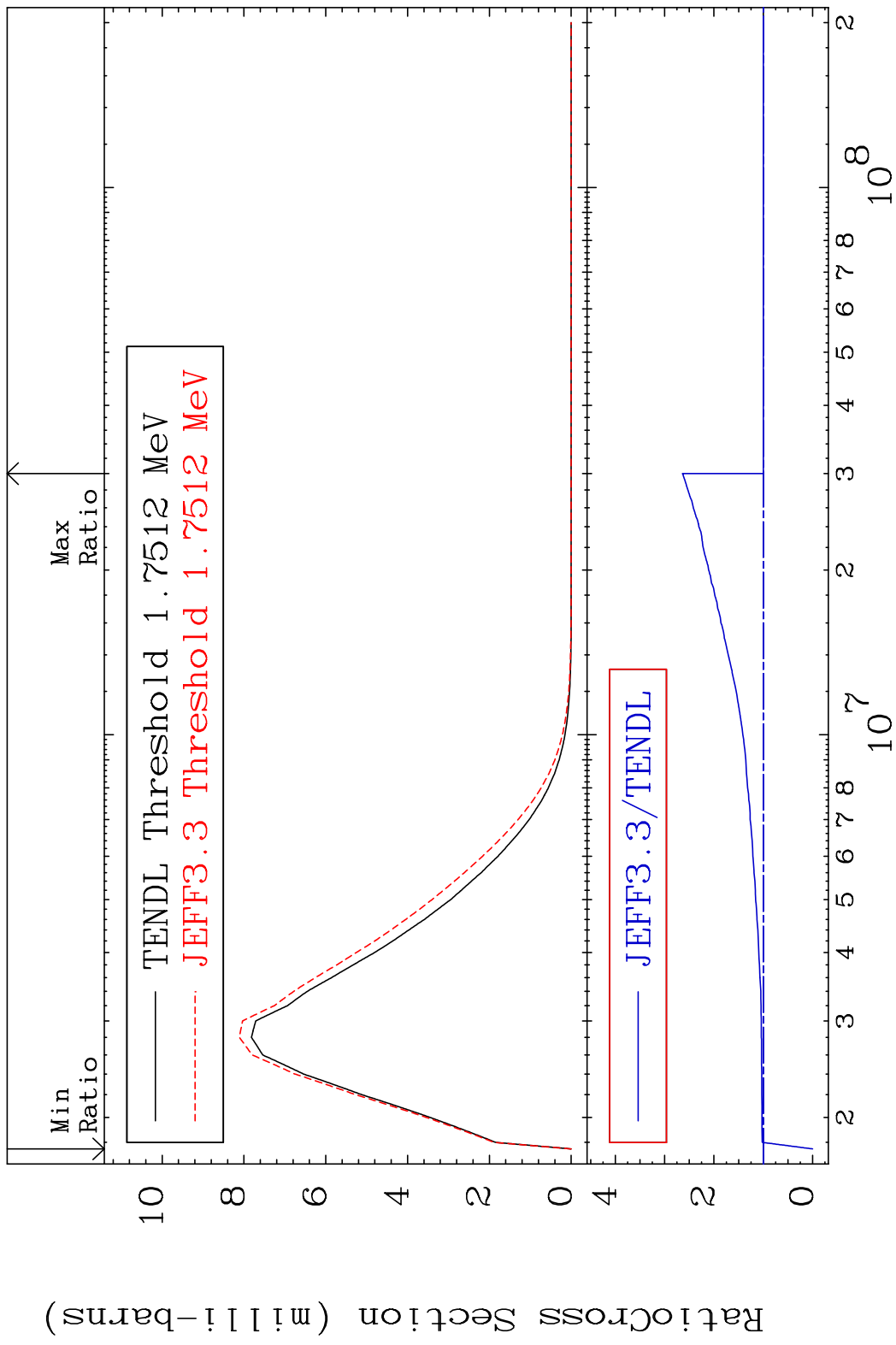
MAT 2716 MT= 57 (n, n') Level 27-Co-56
 Cross Section -100.0 To 164.6 %



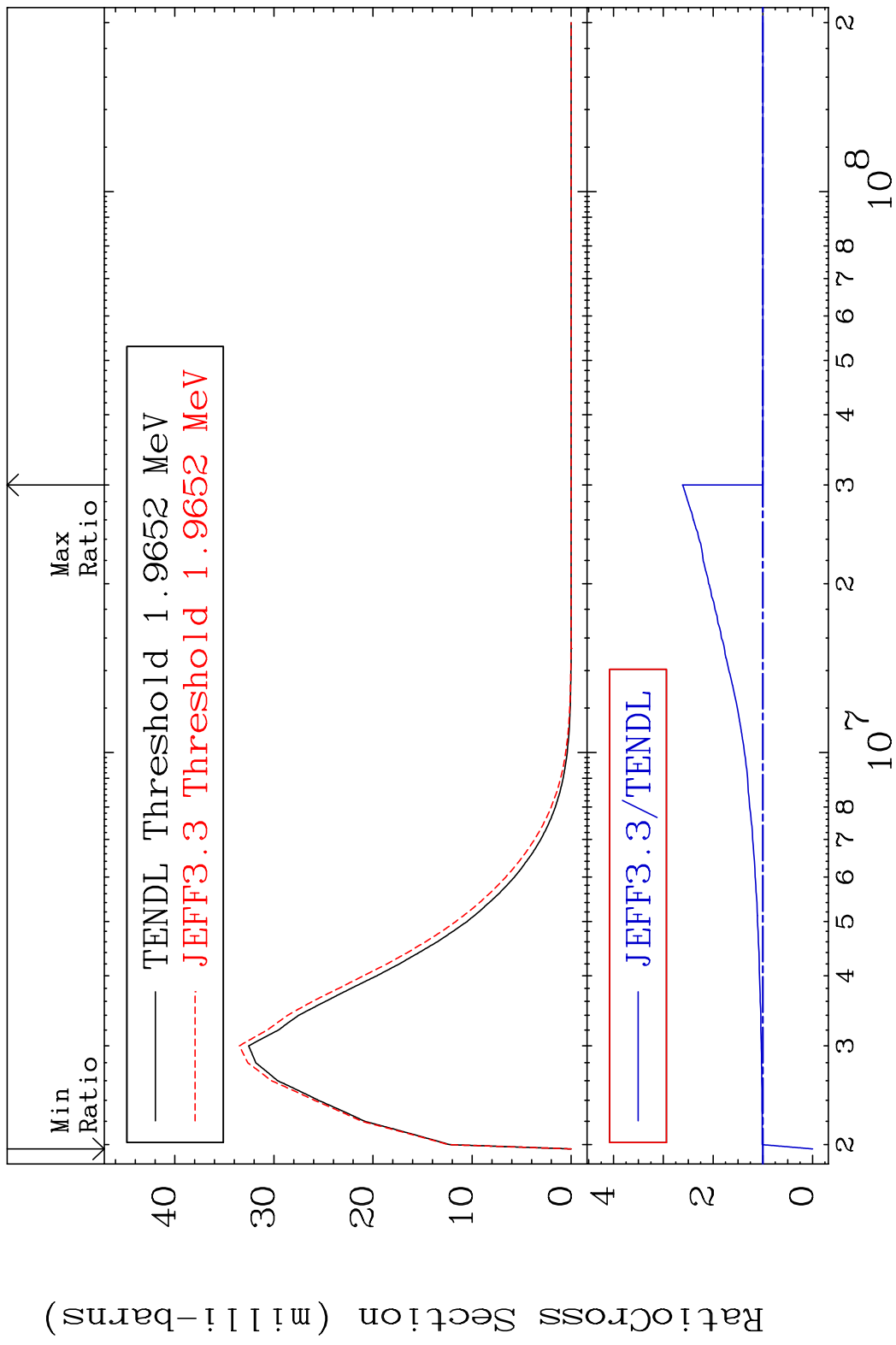
MAT 2716 MT= 58 (n,n') Level 27-Co-56
 Cross Section 0.000 To 164.1 %



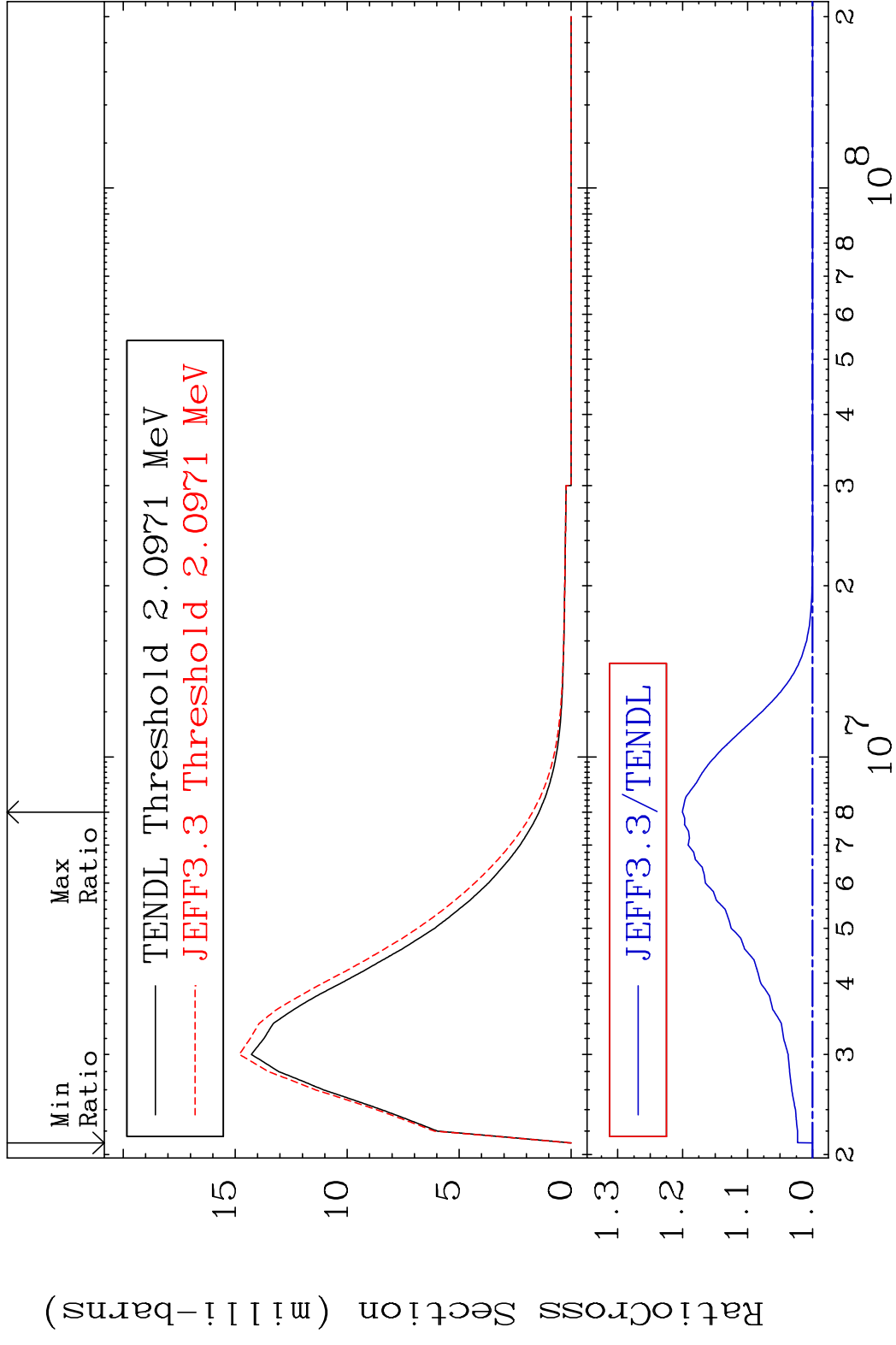
MAT 2716 MT= 59 (n, n') Level 27-Co-56
 Cross Section -100.0 To 164.1 %



MAT 2716 MT= 60 (n, n') Level 27-Co-56
 Cross Section -100.0 To 161.8 %



MAT 2716 MT= 61 (n, n') Level 27-Co-56
 Cross Section 0.000 To 20.04 %

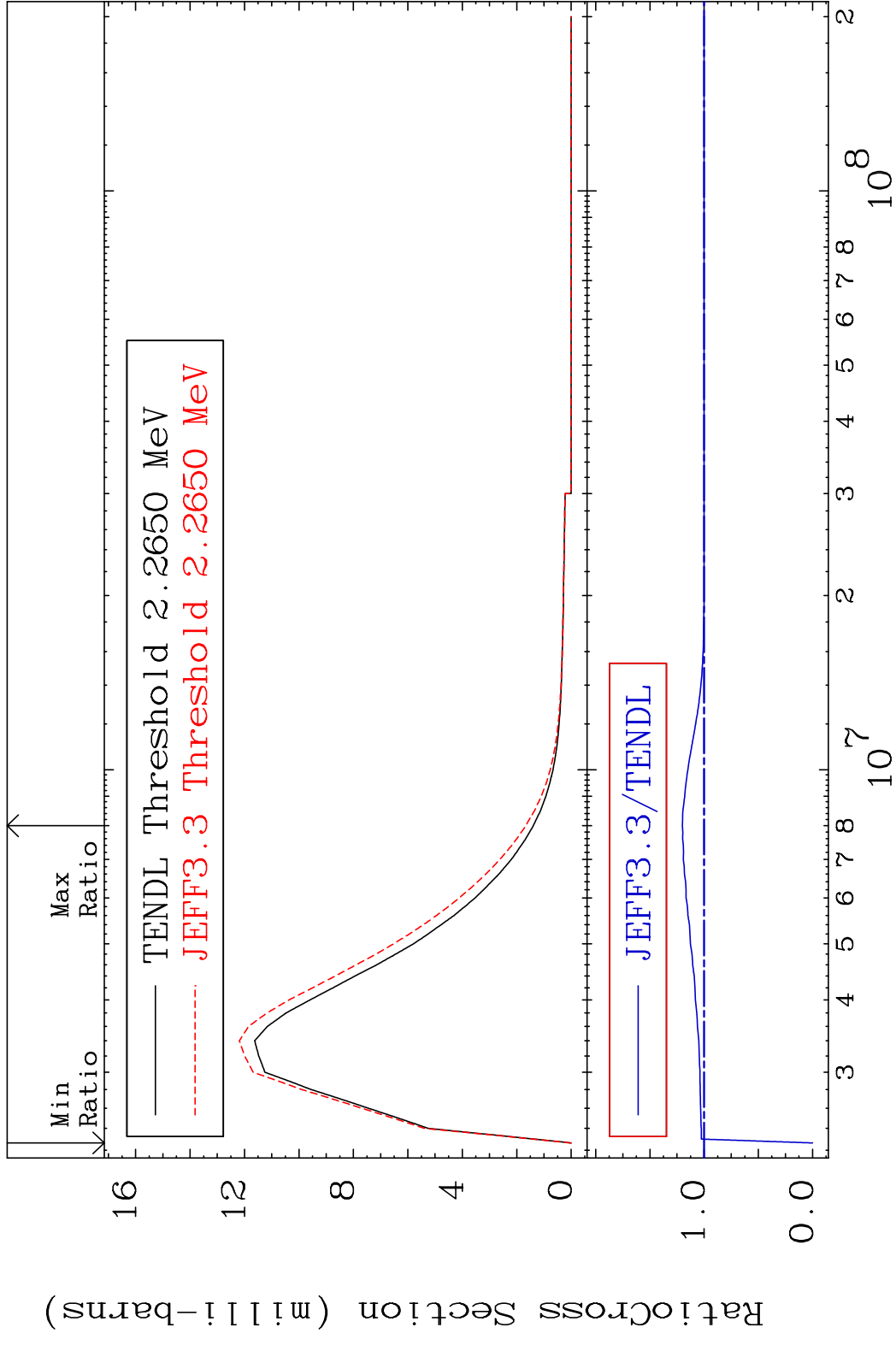


MAT 2716

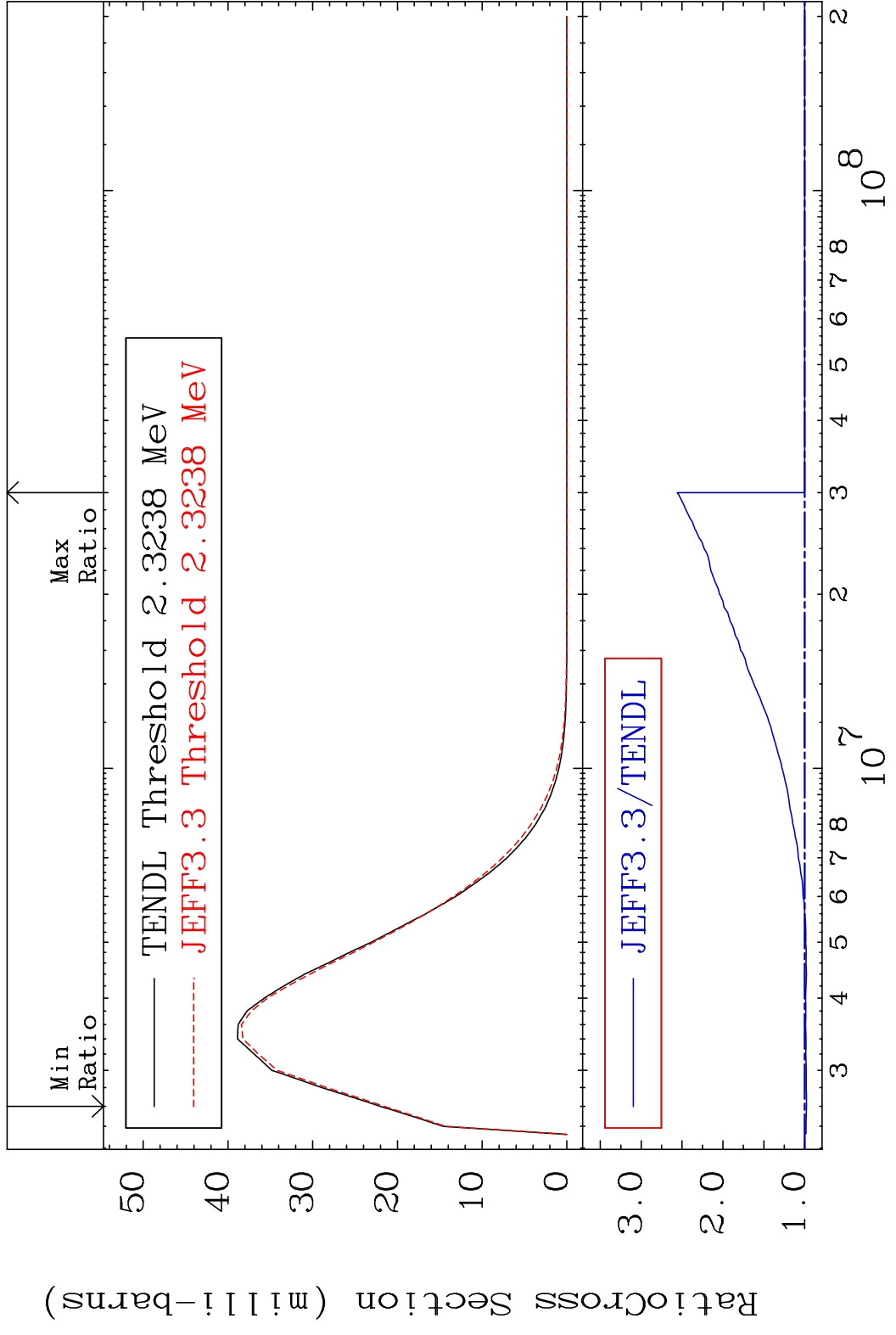
MT= 62 (n, n') Level

27-Co-56

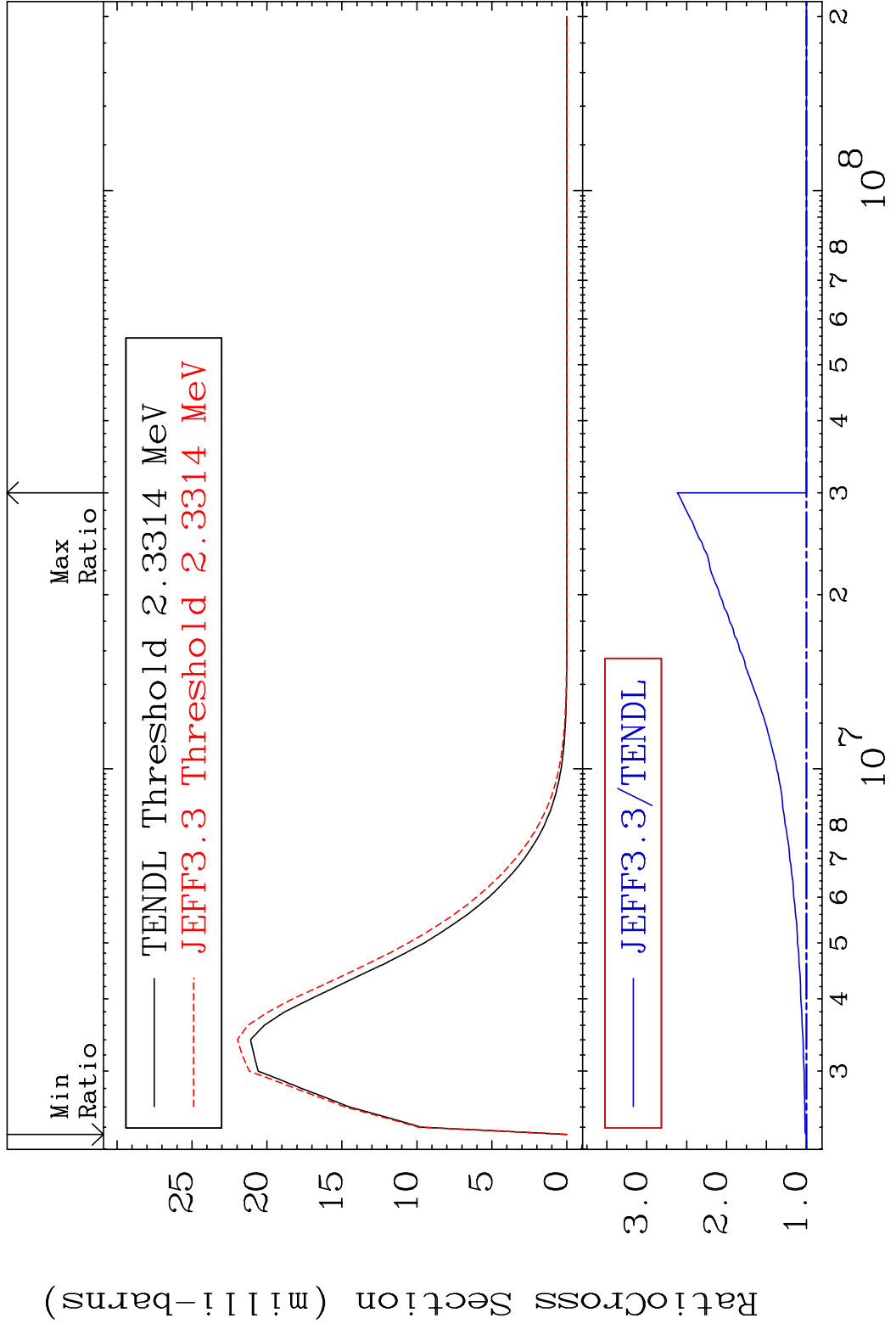
Cross Section -100.0 To 20.07 %



MAT 2716 MT= 63 (n, n') Level 27-Co-56
 Cross Section -2.021 To 156.0 %

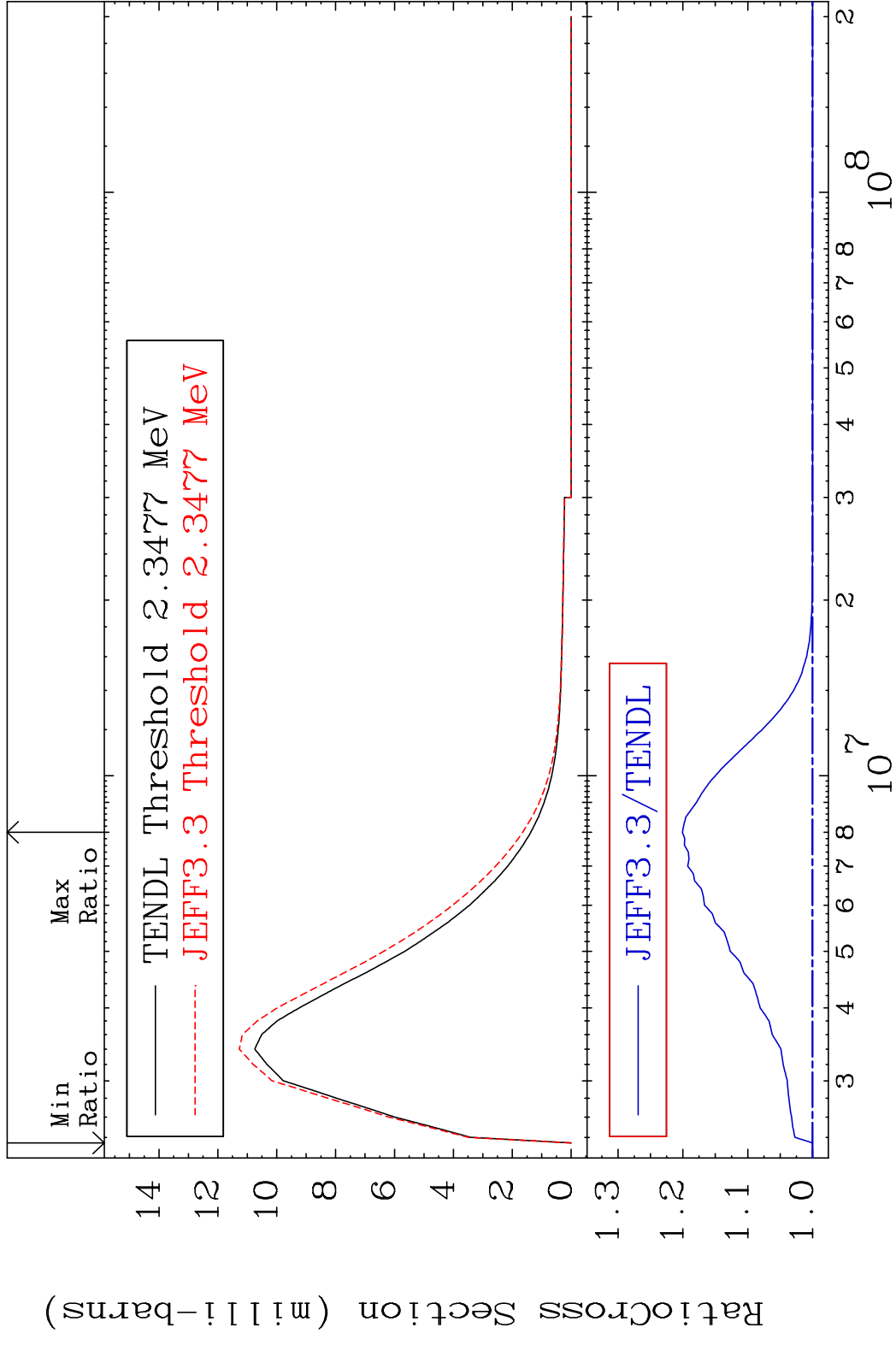


MAT 2716 MT= 64 (n, n') Level 27-Co-56
 Cross Section 0.000 To 161.8 %

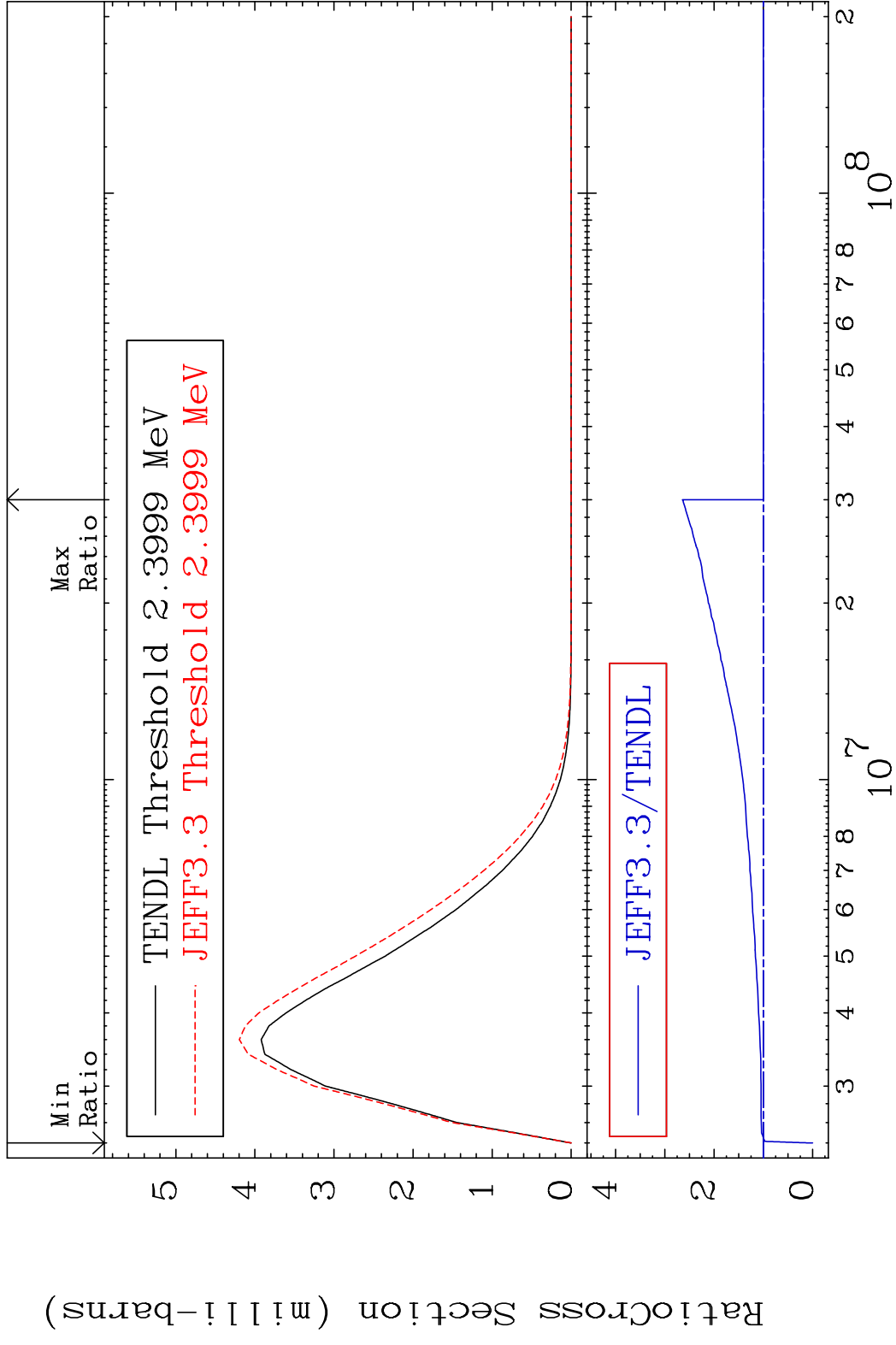


30 27-Co-56

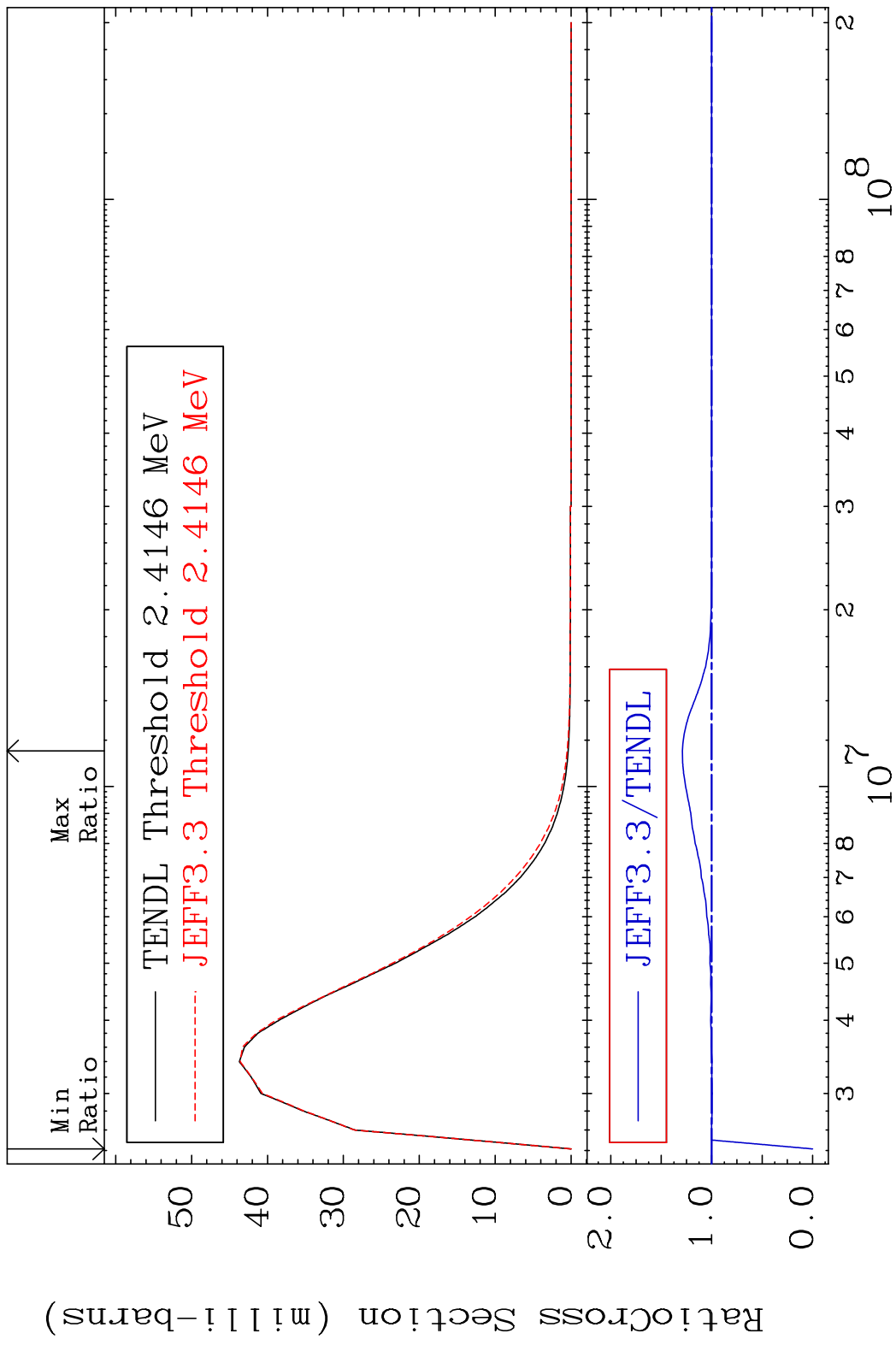
MAT 2716 MT= 65 (n,n') Level 27-Co-56
 Cross Section 0.000 To 20.09 %



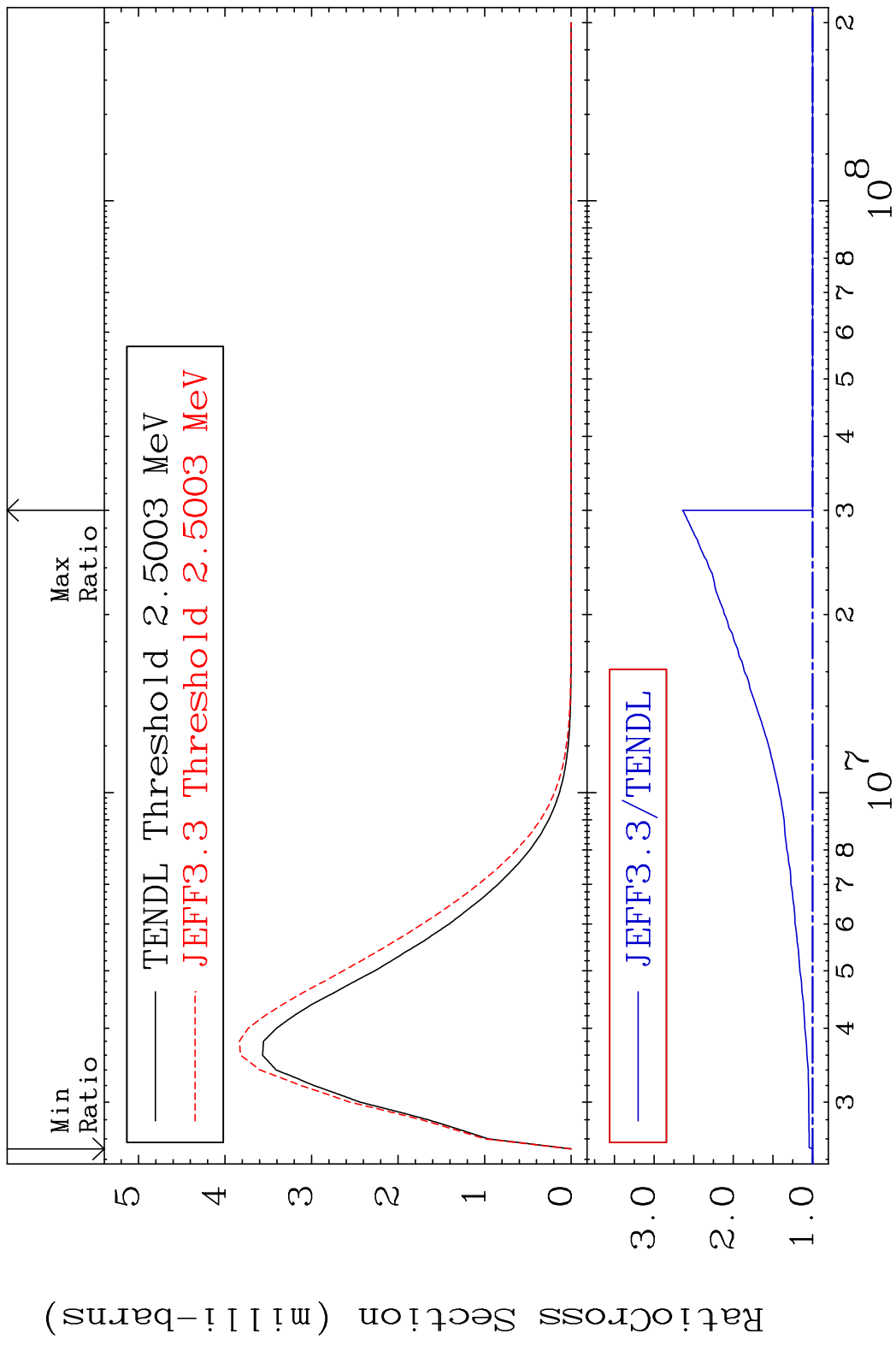
MAT 2716 MT= 66 (n, n') Level 27-Co-56
 Cross Section -100.0 To 164.3 %



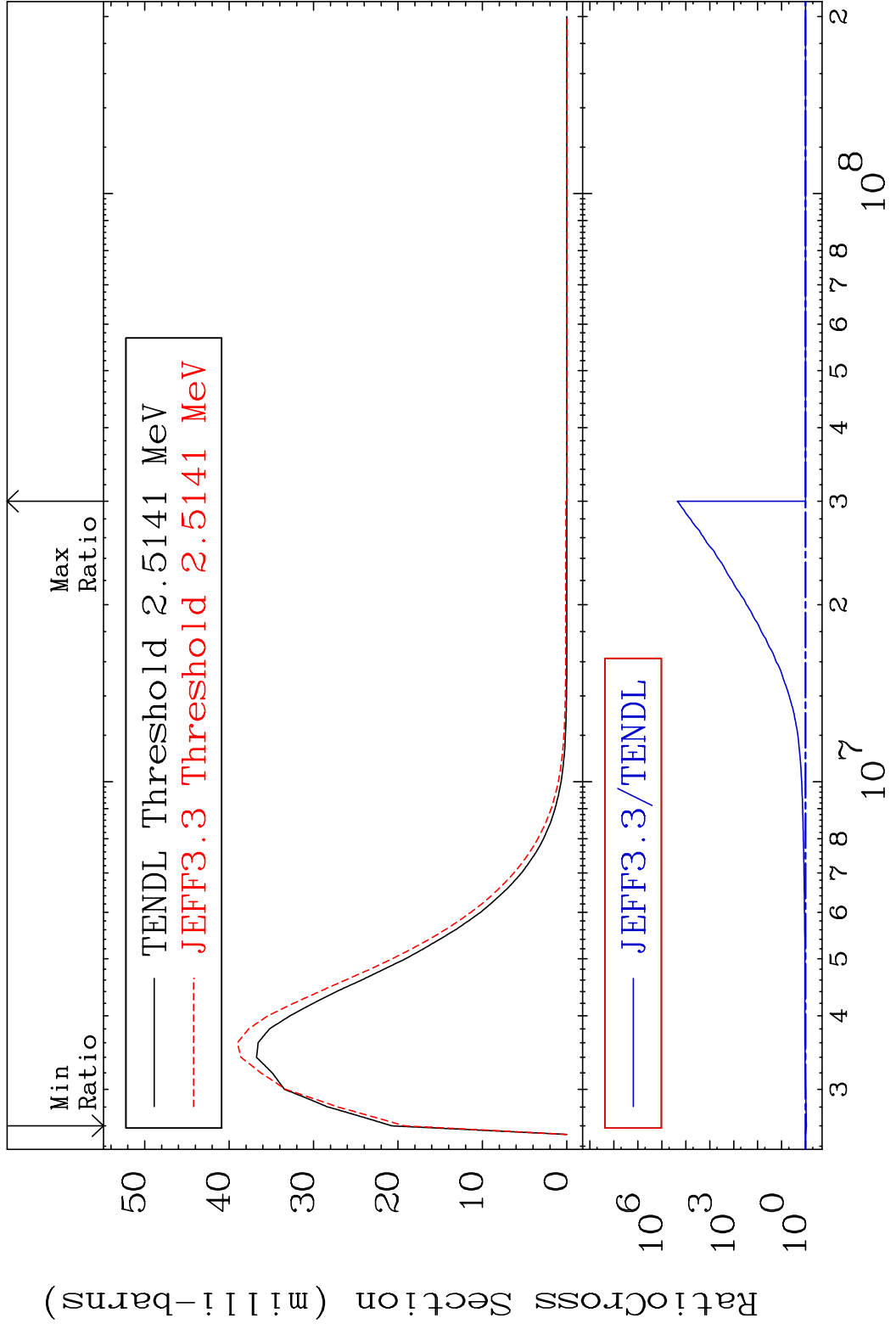
MAT 2716 MT= 67 (n, n') Level 27-Co-56
 Cross Section -100.0 To 29.08 %



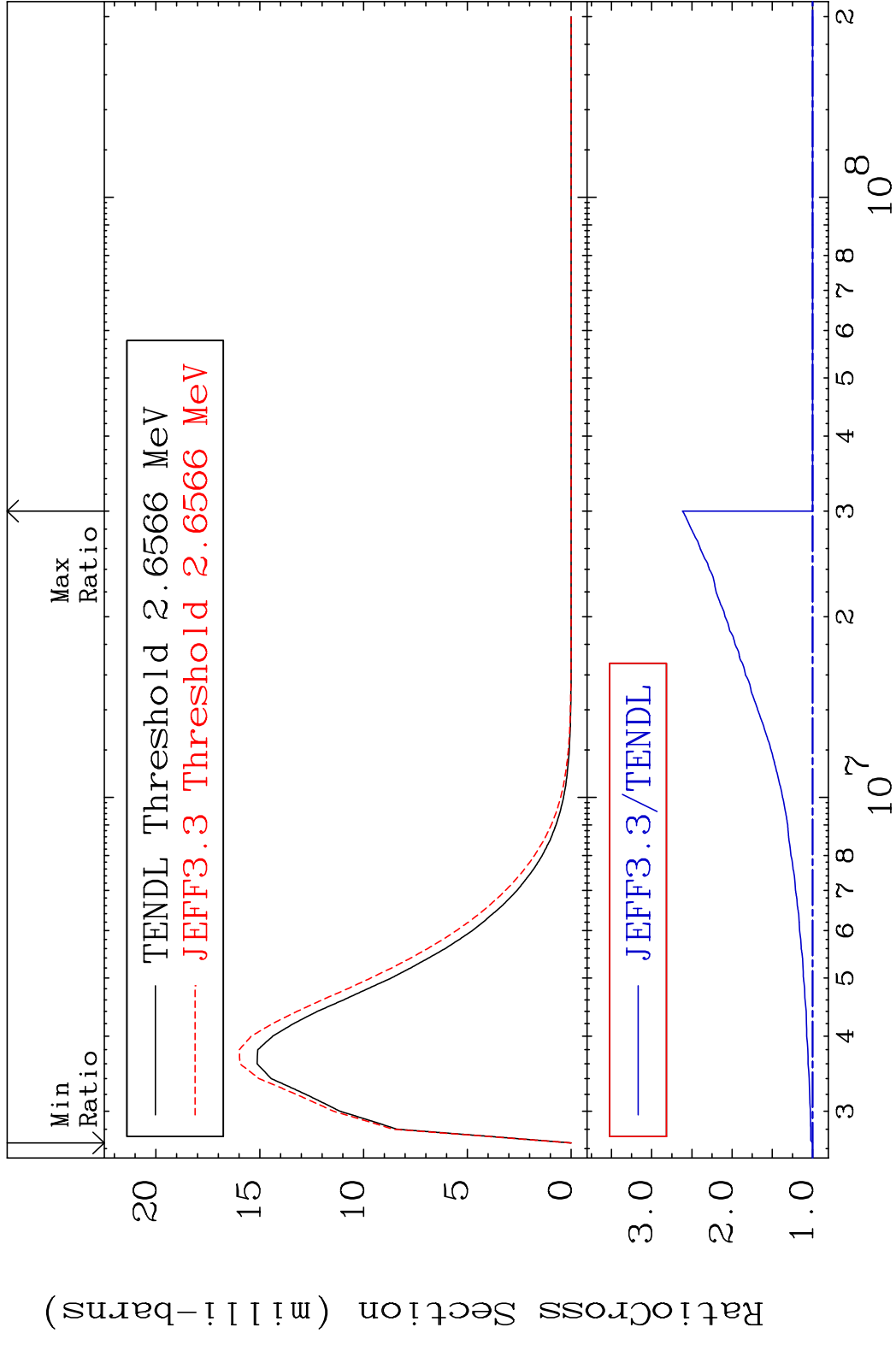
MAT 2716 MT= 68 (n, n') Level 27-Co-56
 Cross Section 0.000 To 164.3 %



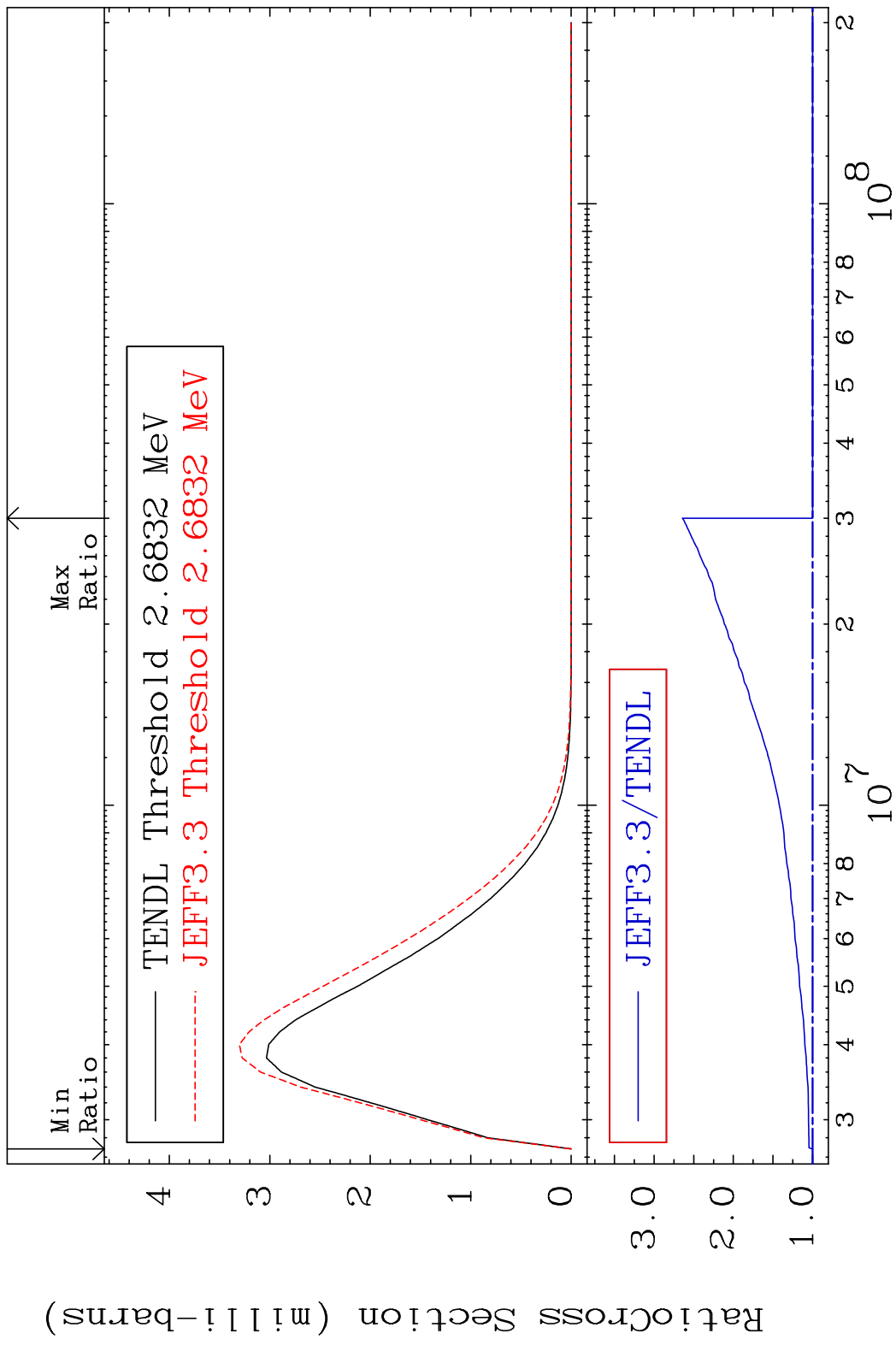
MAT 2716 MT= 69 (n, n') Level 27-Co-56
 Cross Section -7.195 To 9999. %



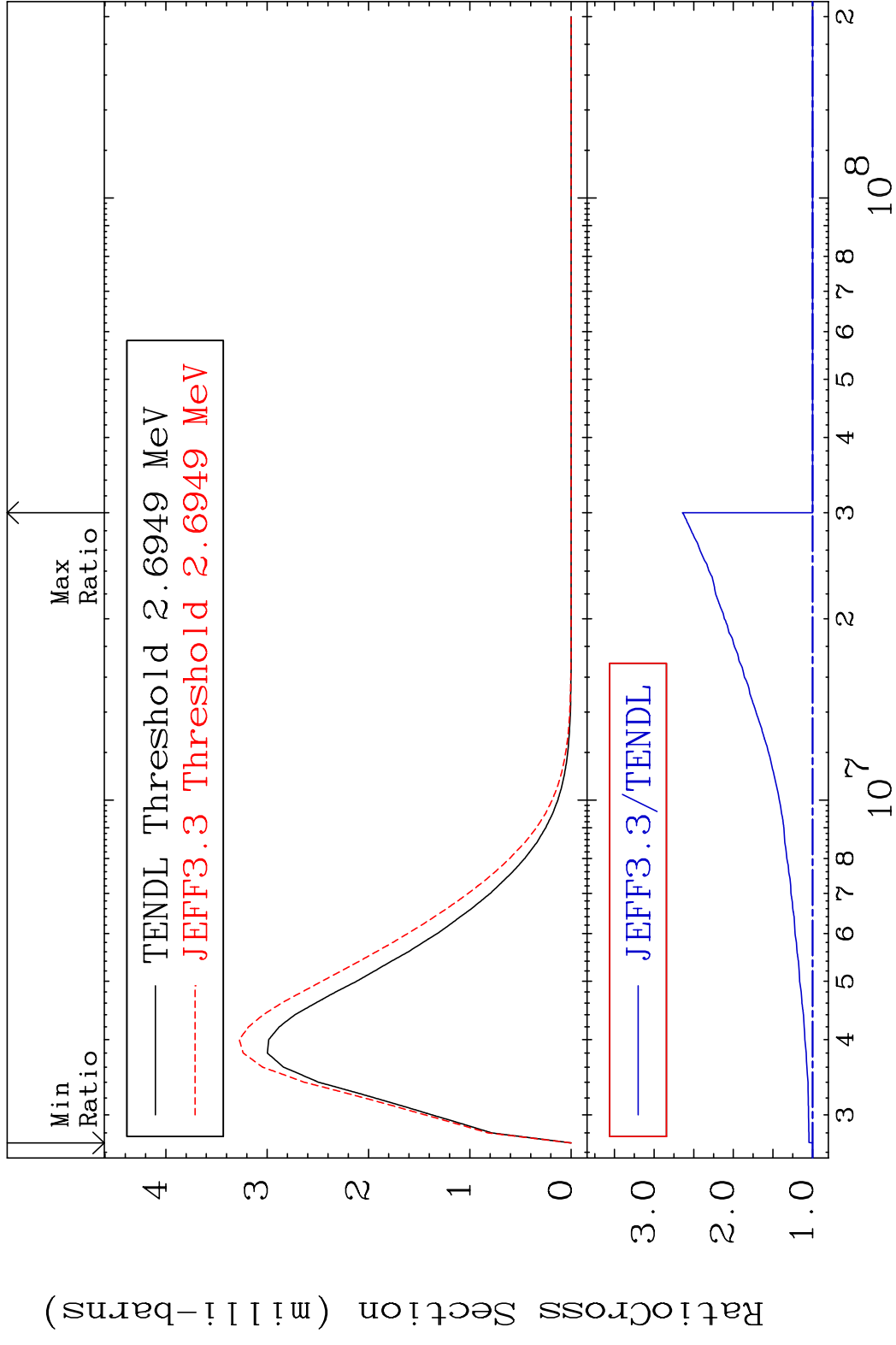
MAT 2716 MT= 70 (n, n') Level 27-Co-56
 Cross Section 0.000 To 161.9 %



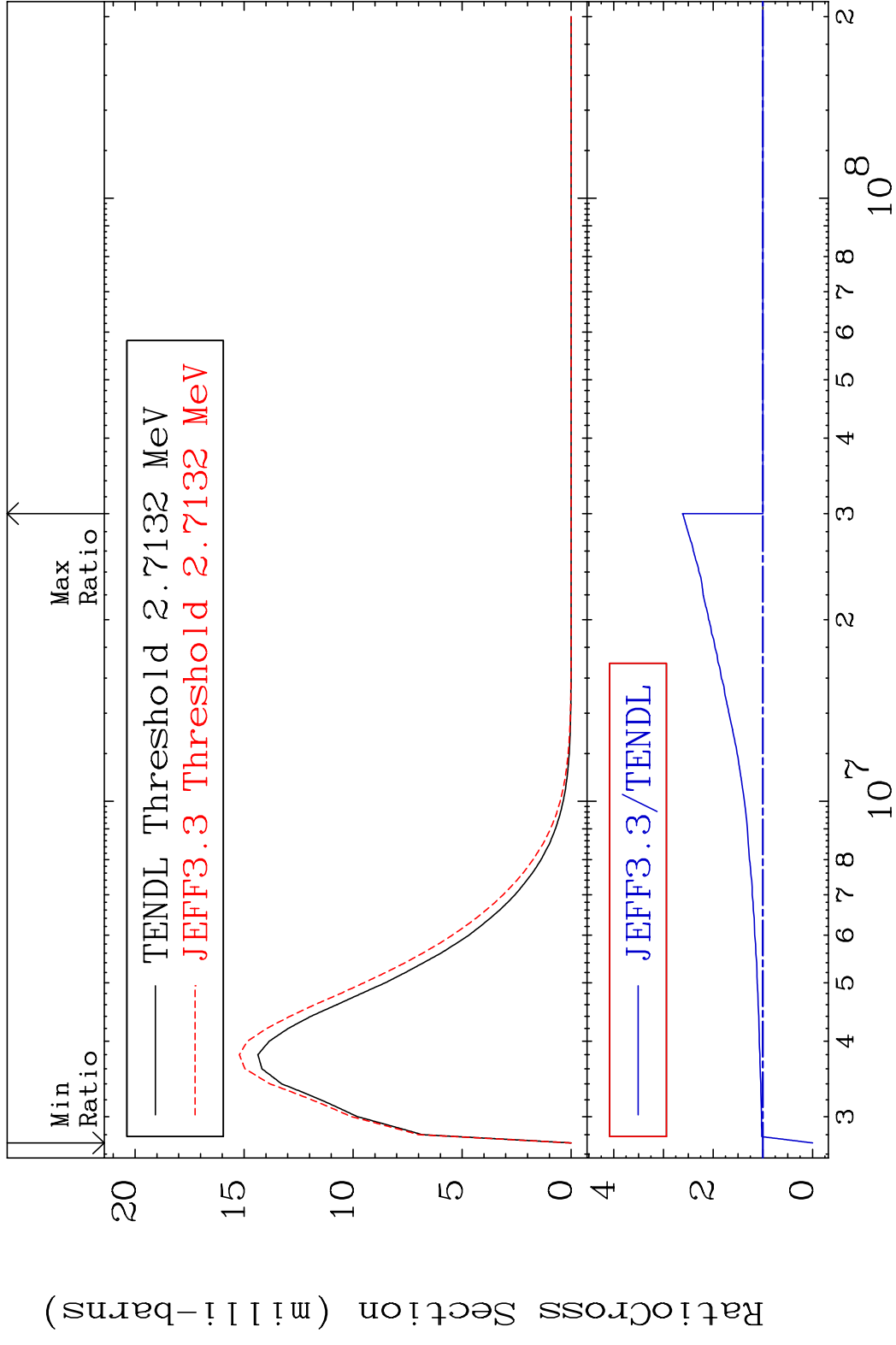
MAT 2716 MT= 71 (n, n') Level 27-Co-56
 Cross Section 0.000 To 164.4 %



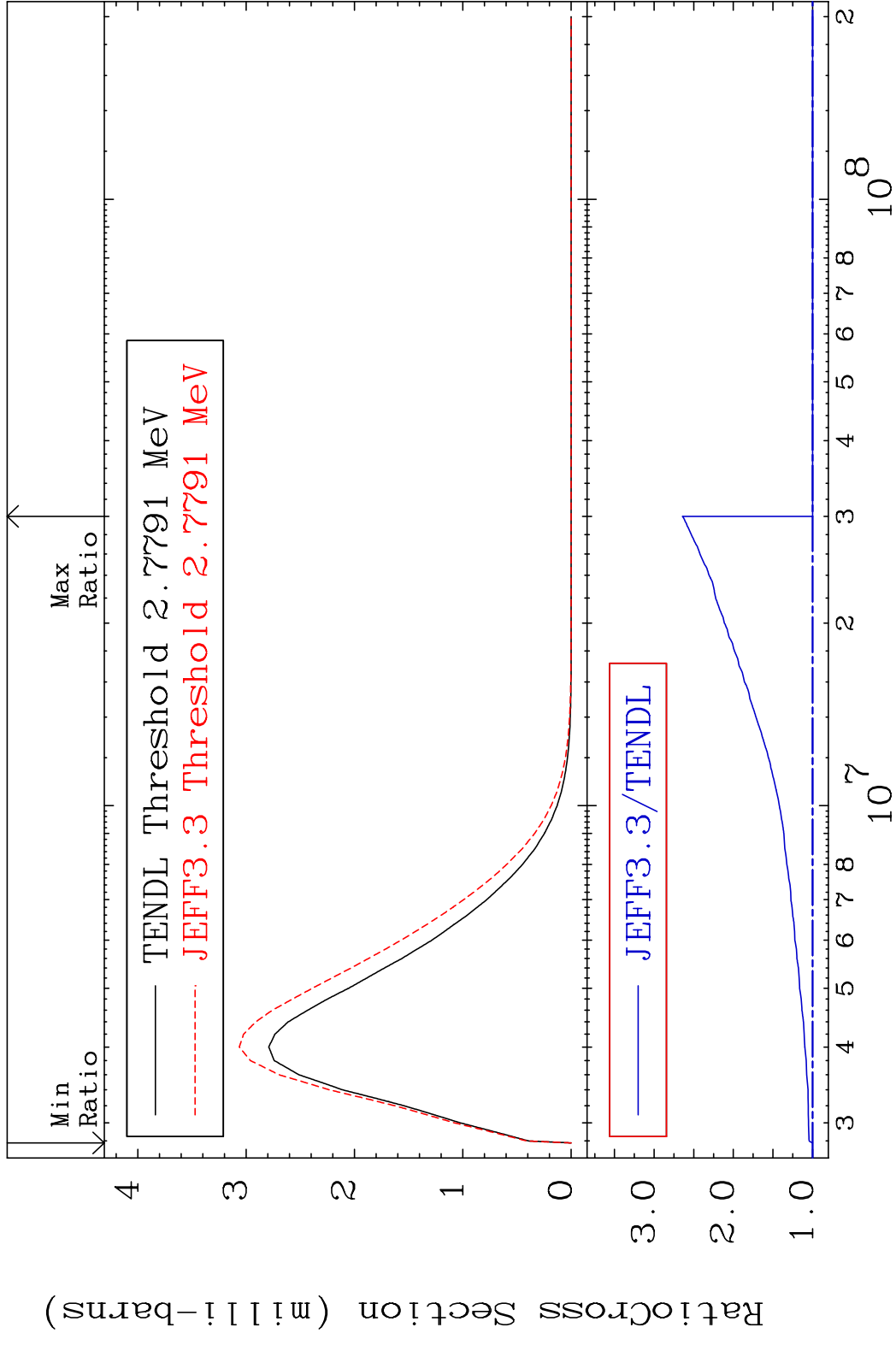
MAT 2716 MT= 72 (n, n') Level 27-Co-56
 Cross Section 0.000 To 164.4 %



MAT 2716 MT= 73 (n, n') Level 27-Co-56
 Cross Section -100.0 To 161.9 %

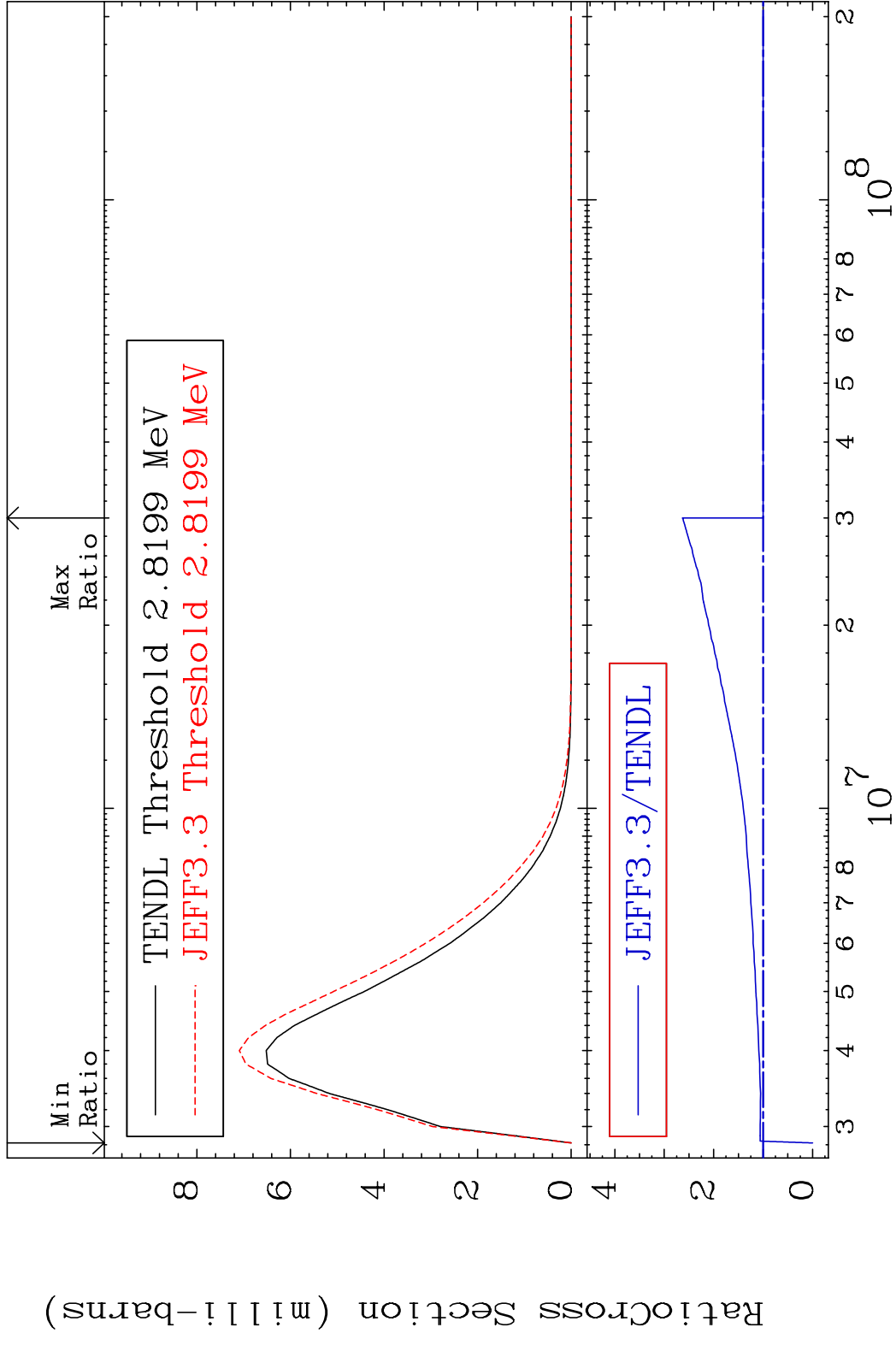


MAT 2716 MT= 74 (n, n') Level 27-Co-56
 Cross Section 0.000 To 164.4 %

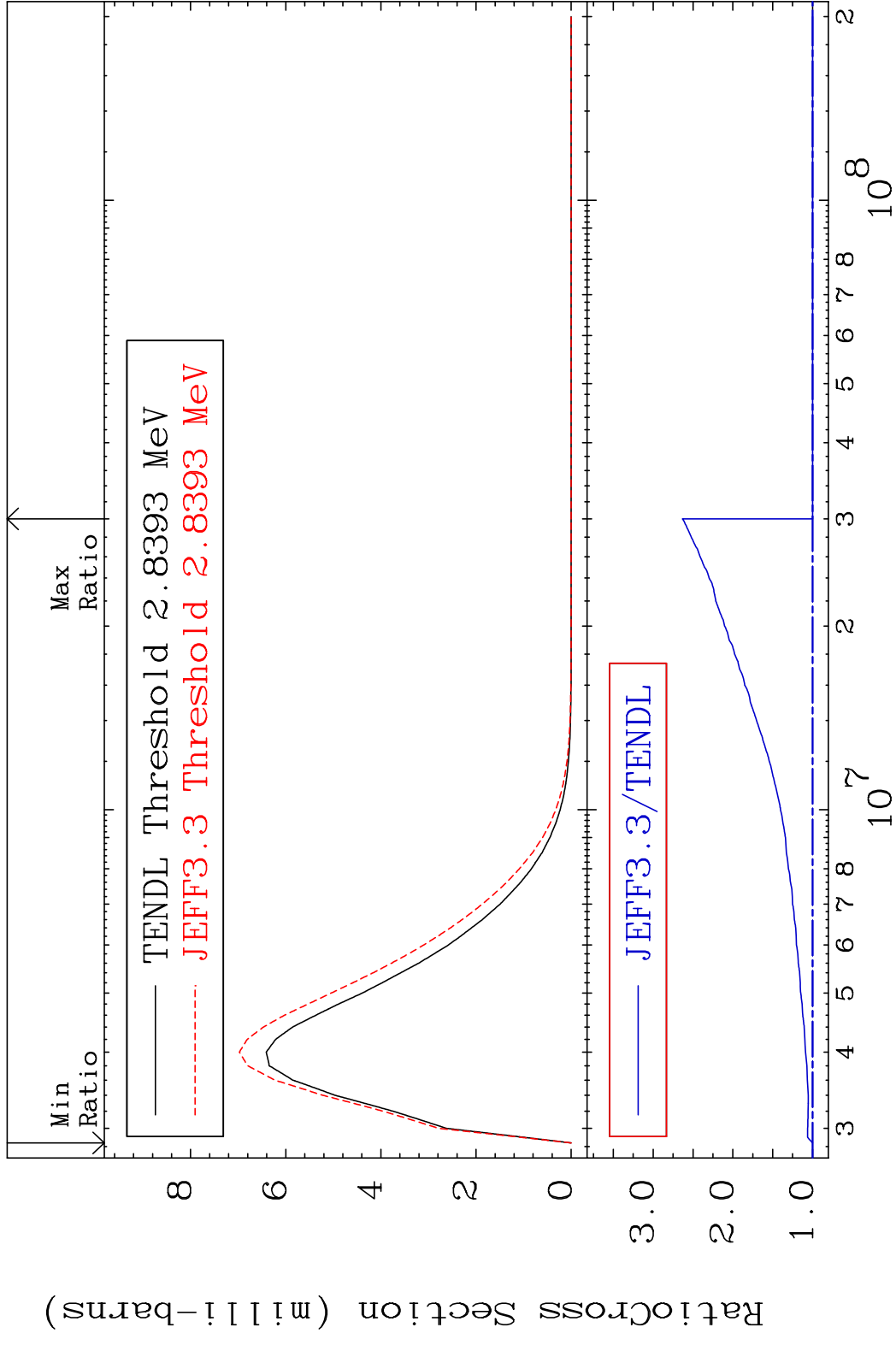


40 Incident Energy (eV) 27-Co-56

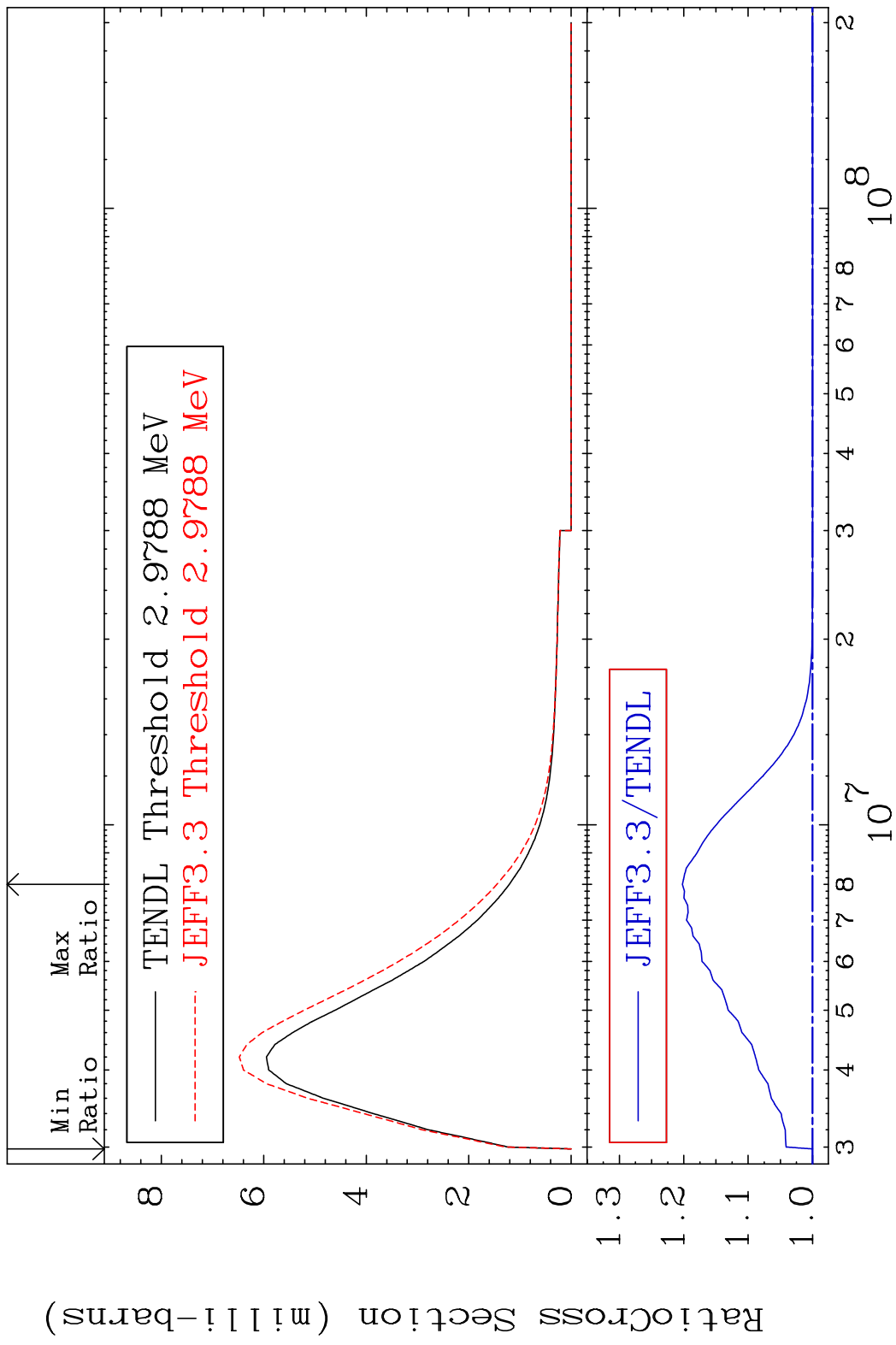
MAT 2716 MT= 75 (n, n') Level 27-Co-56
 Cross Section -100.0 To 163.4 %



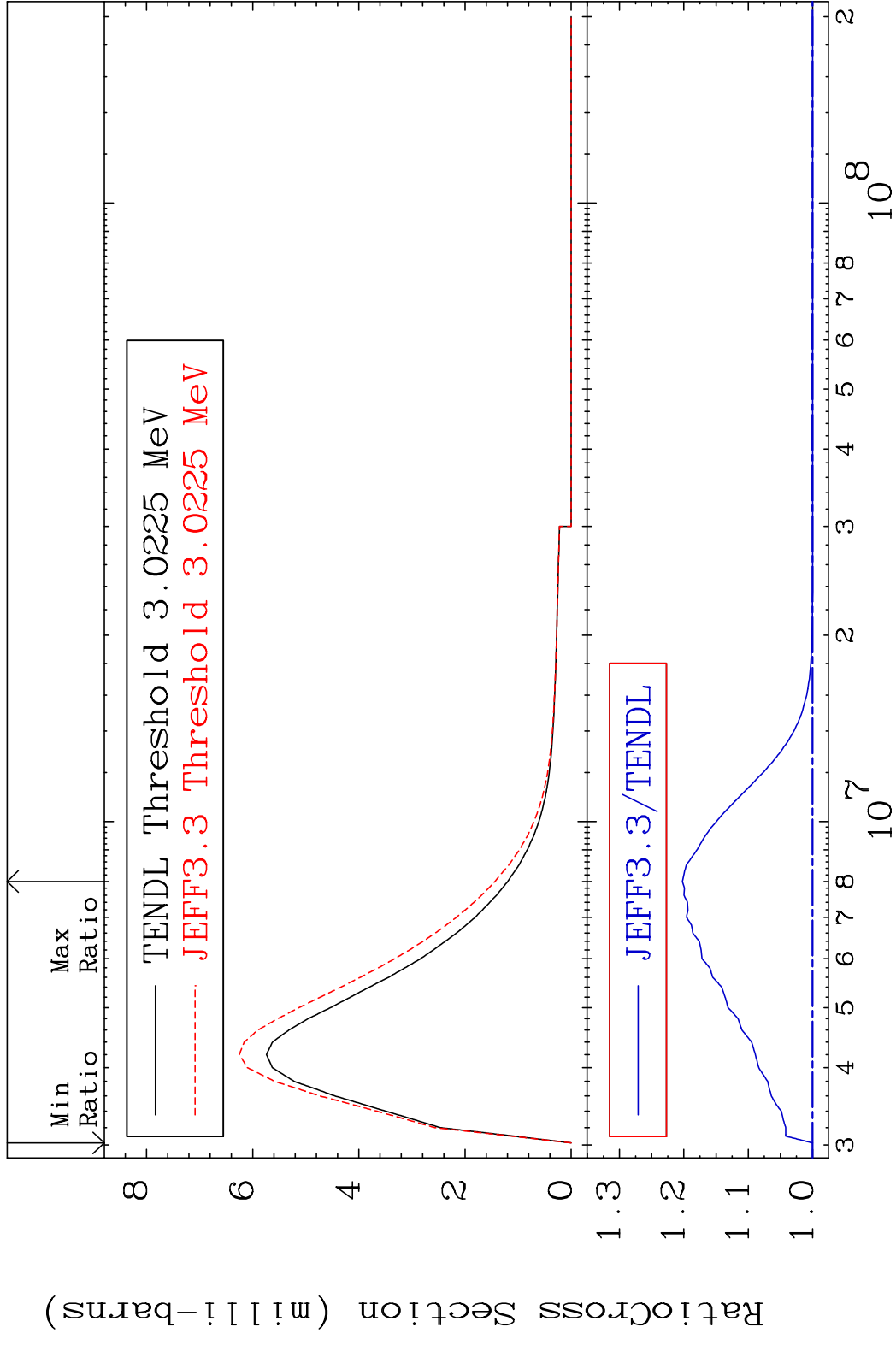
MAT 2716 MT= 76 (n, n') Level 27-Co-56
 Cross Section 0.000 To 163.4 %



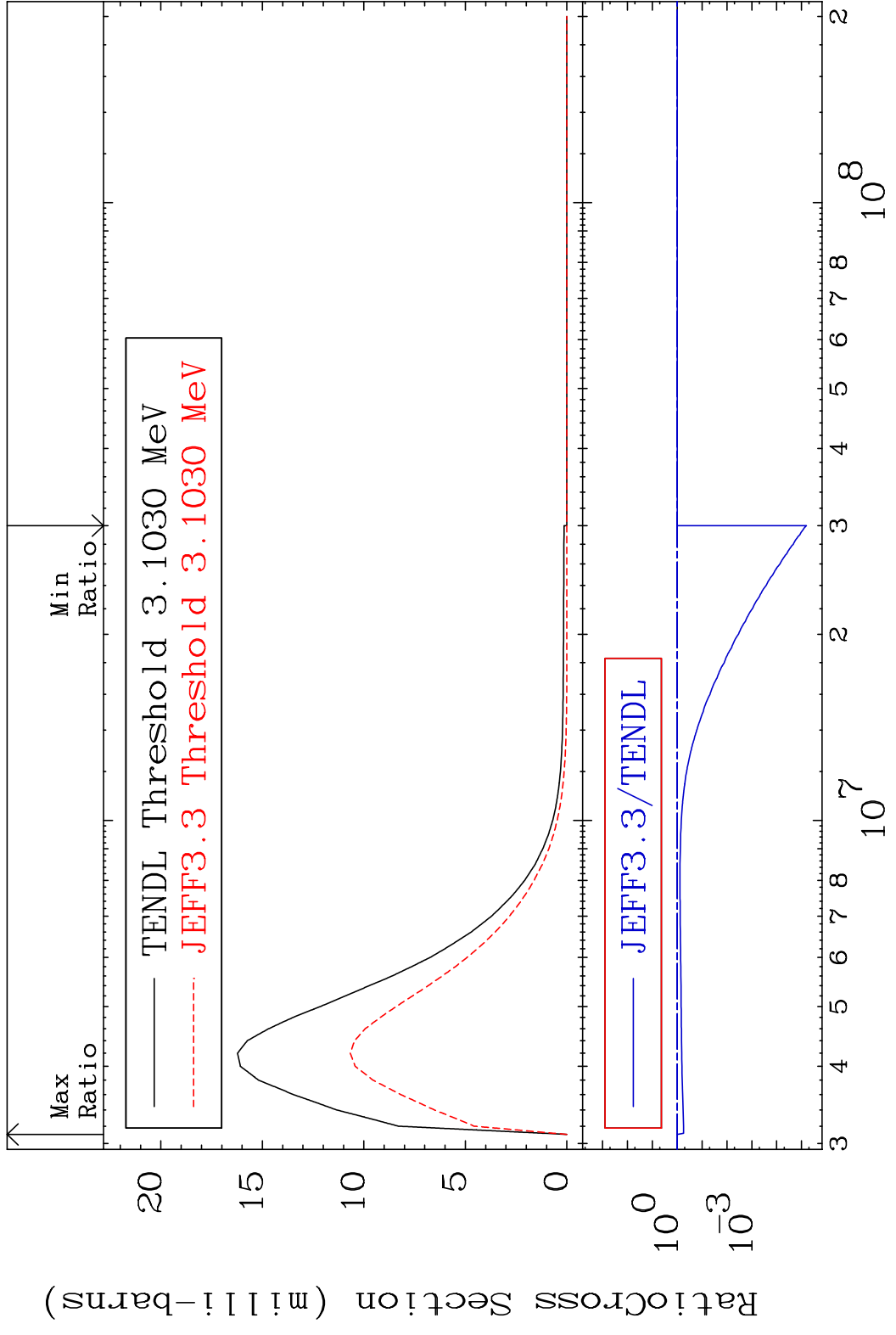
MAT 2716 MT= 77 (n, n') Level 27-Co-56
 Cross Section 0.000 To 20.22 %



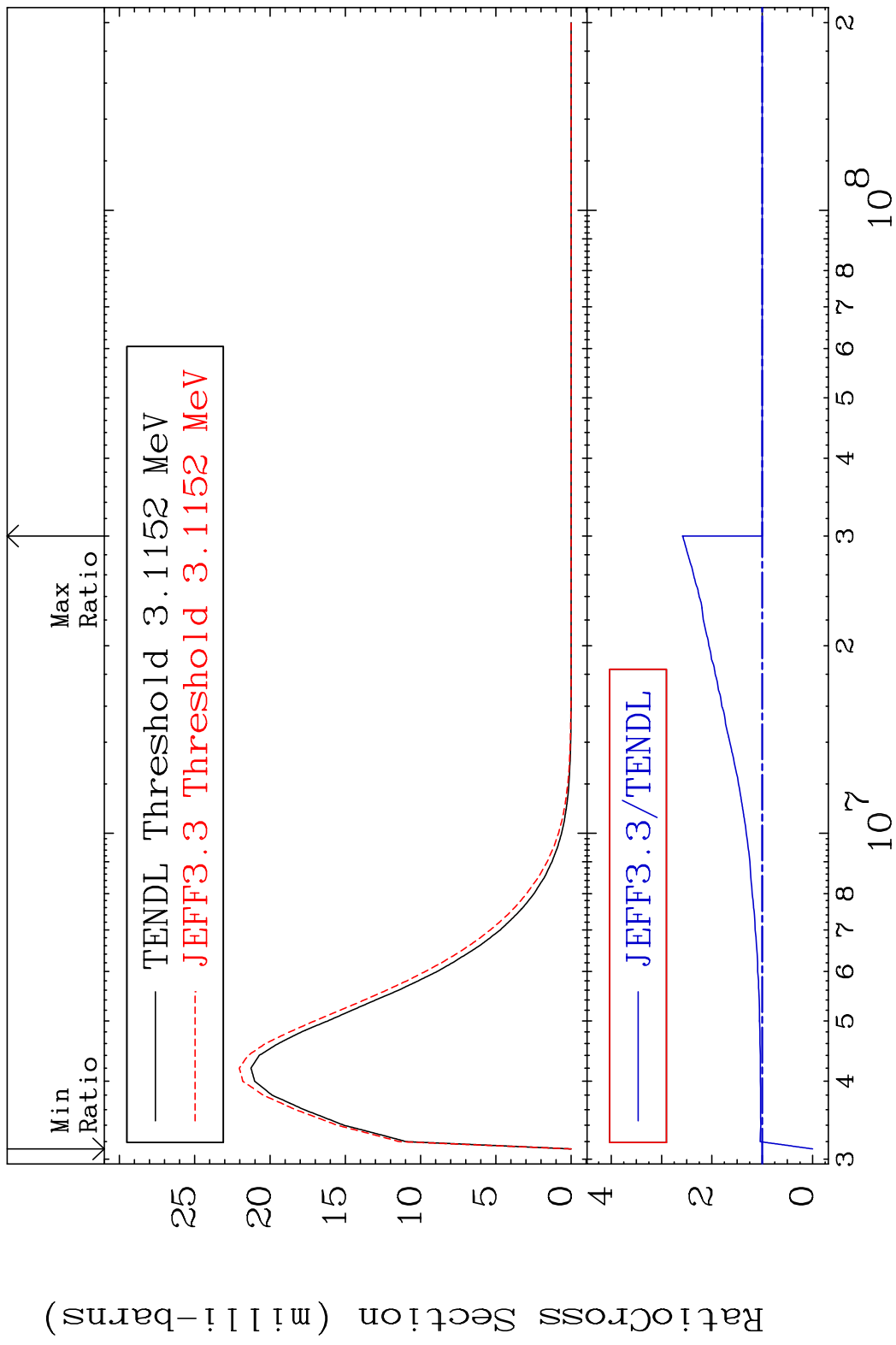
MAT 2716 MT= 78 (n, n') Level 27-Co-56
 Cross Section 0.000 To 20.23 %



MAT 2716 MT= 79 (n, n') Level 27-Co-56
 Cross Section -100.0 To 0.000 %

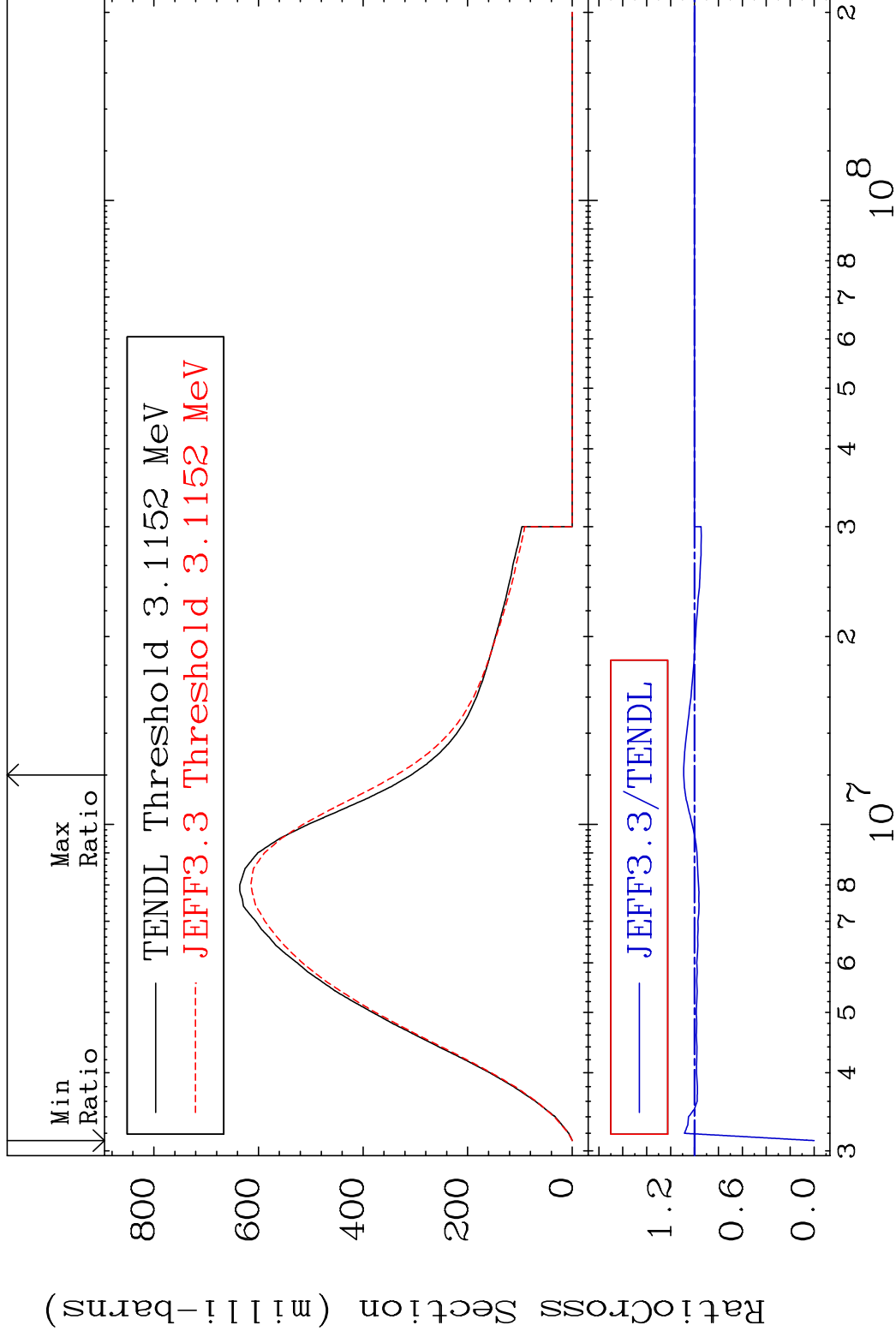


MAT 2716 MT= 80 (n, n') Level 27-Co-56
 Cross Section -100.0 To 158.6 %



MAT 2716

(n, n') Continuum ²⁷Co-56
Cross Section -100.0 To 9.078 %



47

Incident Energy (eV)

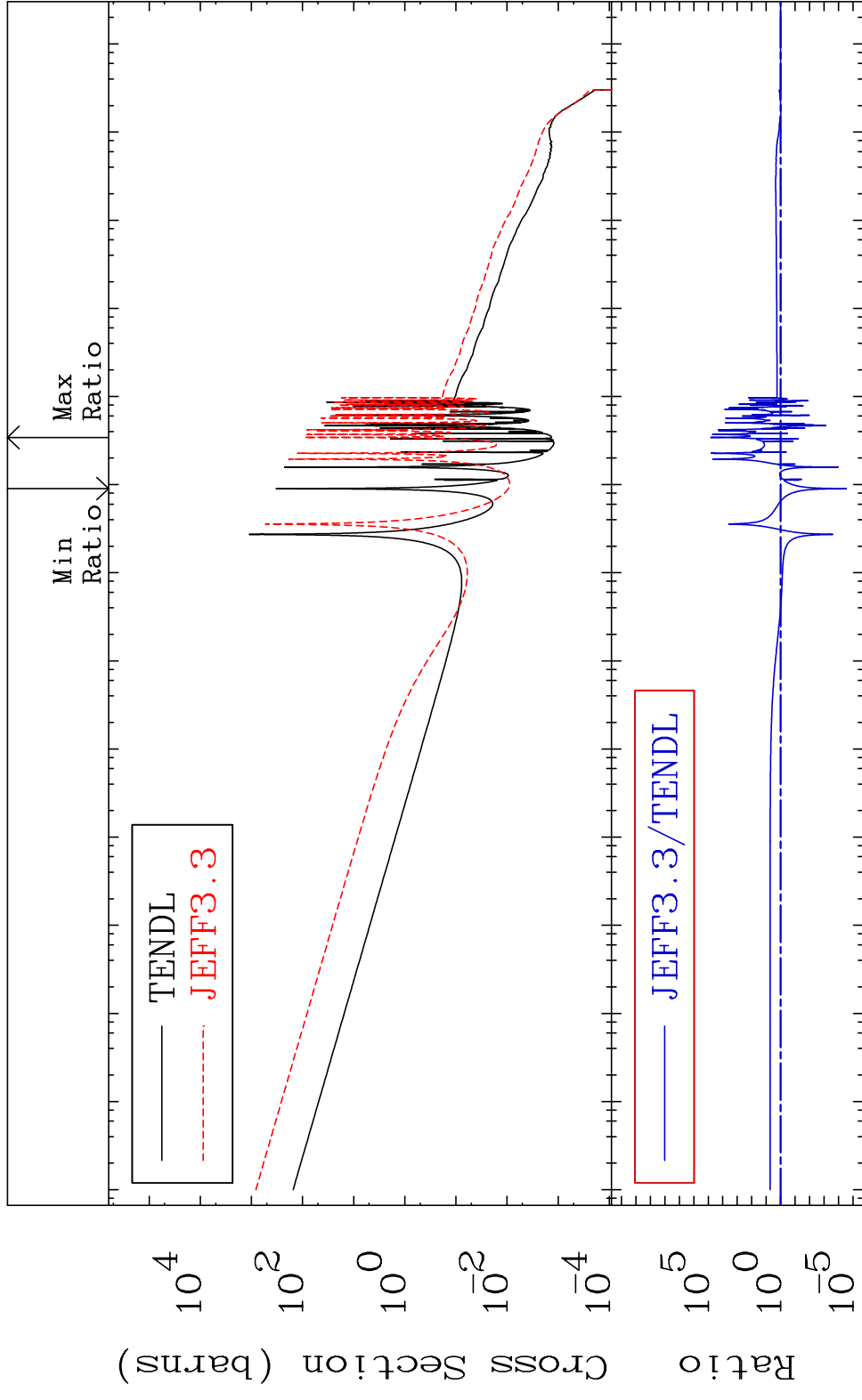
²⁷Co-56

MAT 2716

27-Co-56

(n, γ)

Cross Section -100.0 To 9999. %

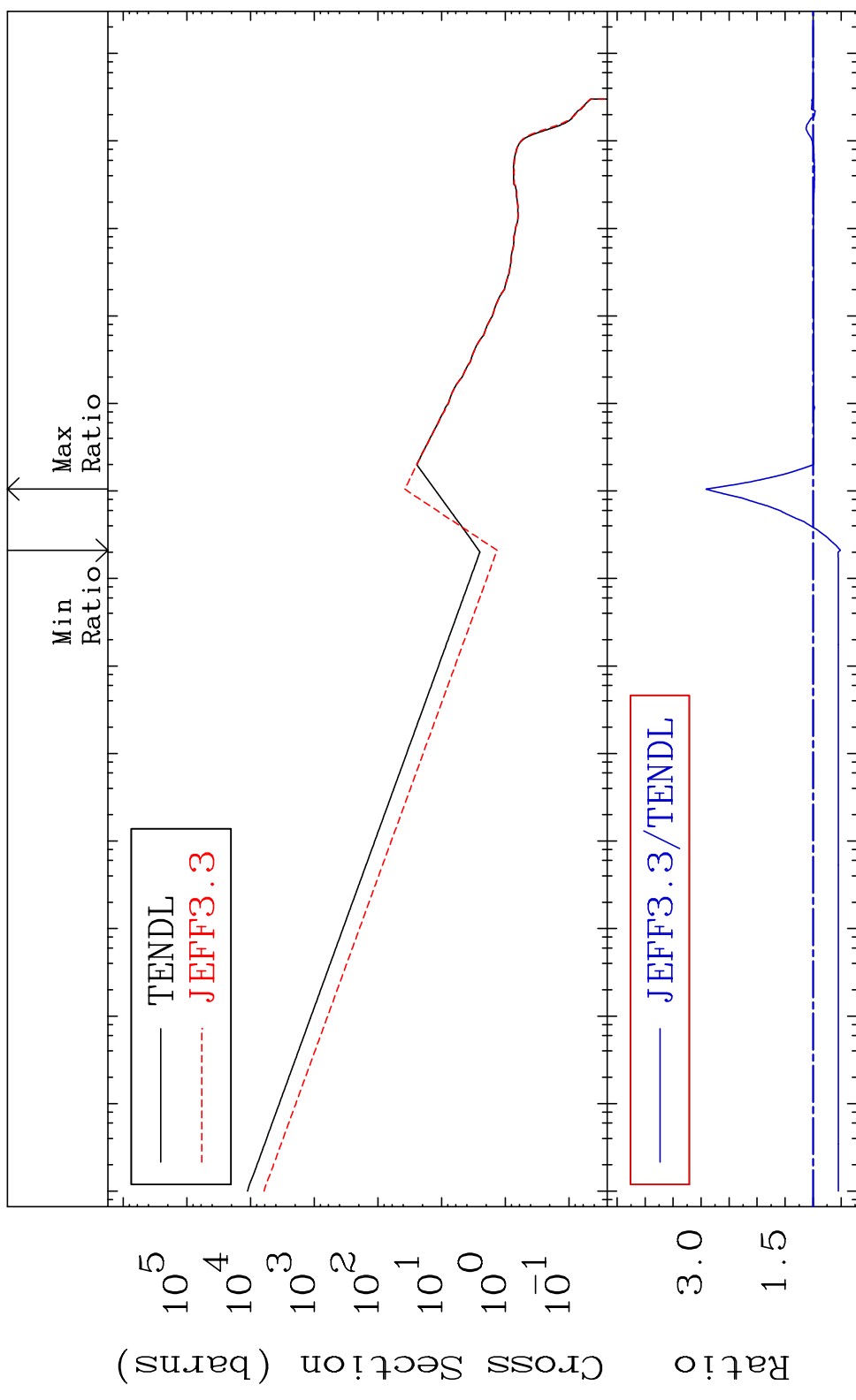


MAT 2716

(n, p)

27-Co-56

Cross Section -48.78 To 191.7 %



Cross Section (barns)
10⁵
10⁴
10³
10²
10¹
10⁰
10⁻¹

Ratio
3.0
1.5

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

49

Incident Energy (eV)

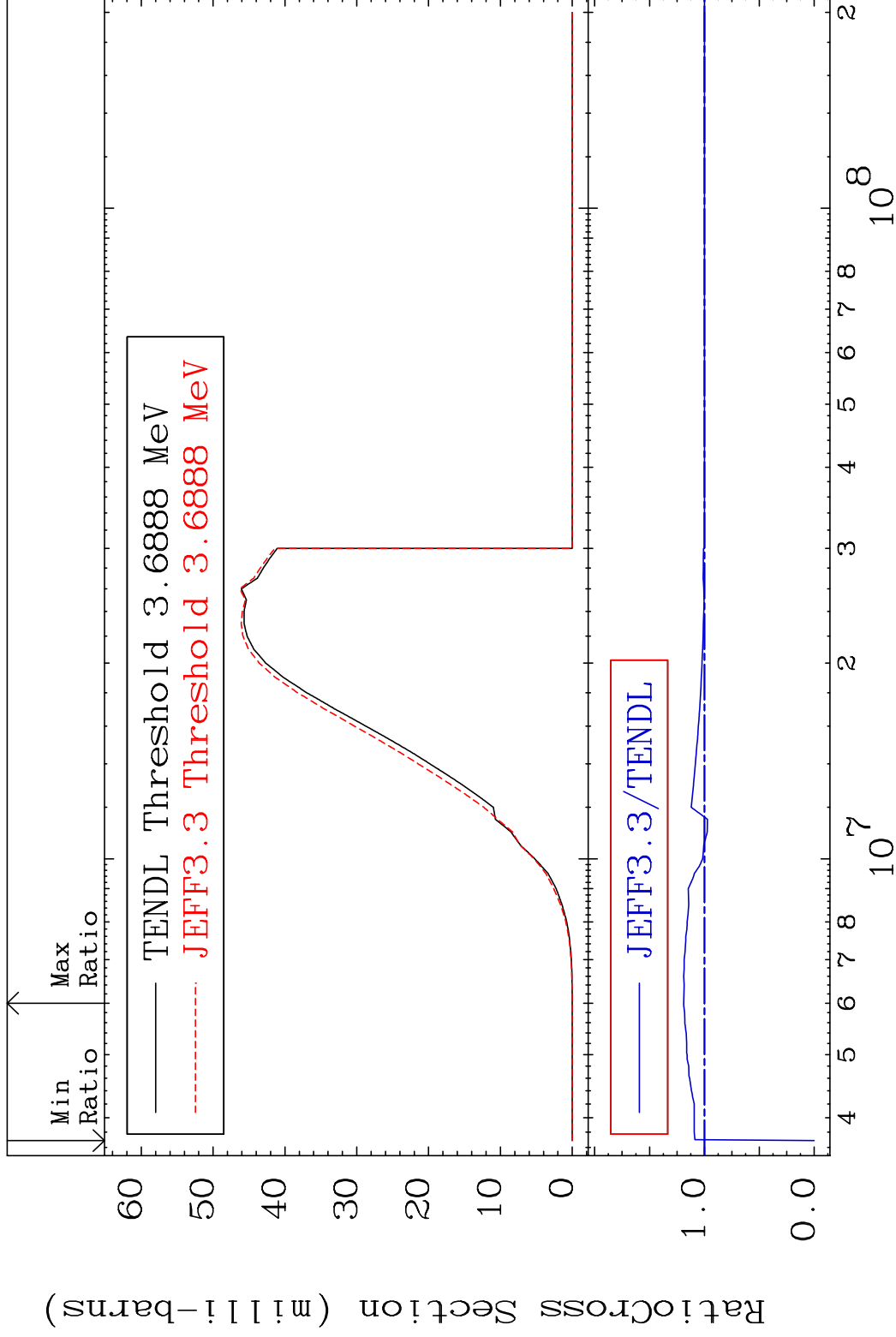
27-Co-56

MAT 2716

(n, d)

27-Co-56

Cross Section -100.0 To 18.90 %



50

Incident Energy (eV)

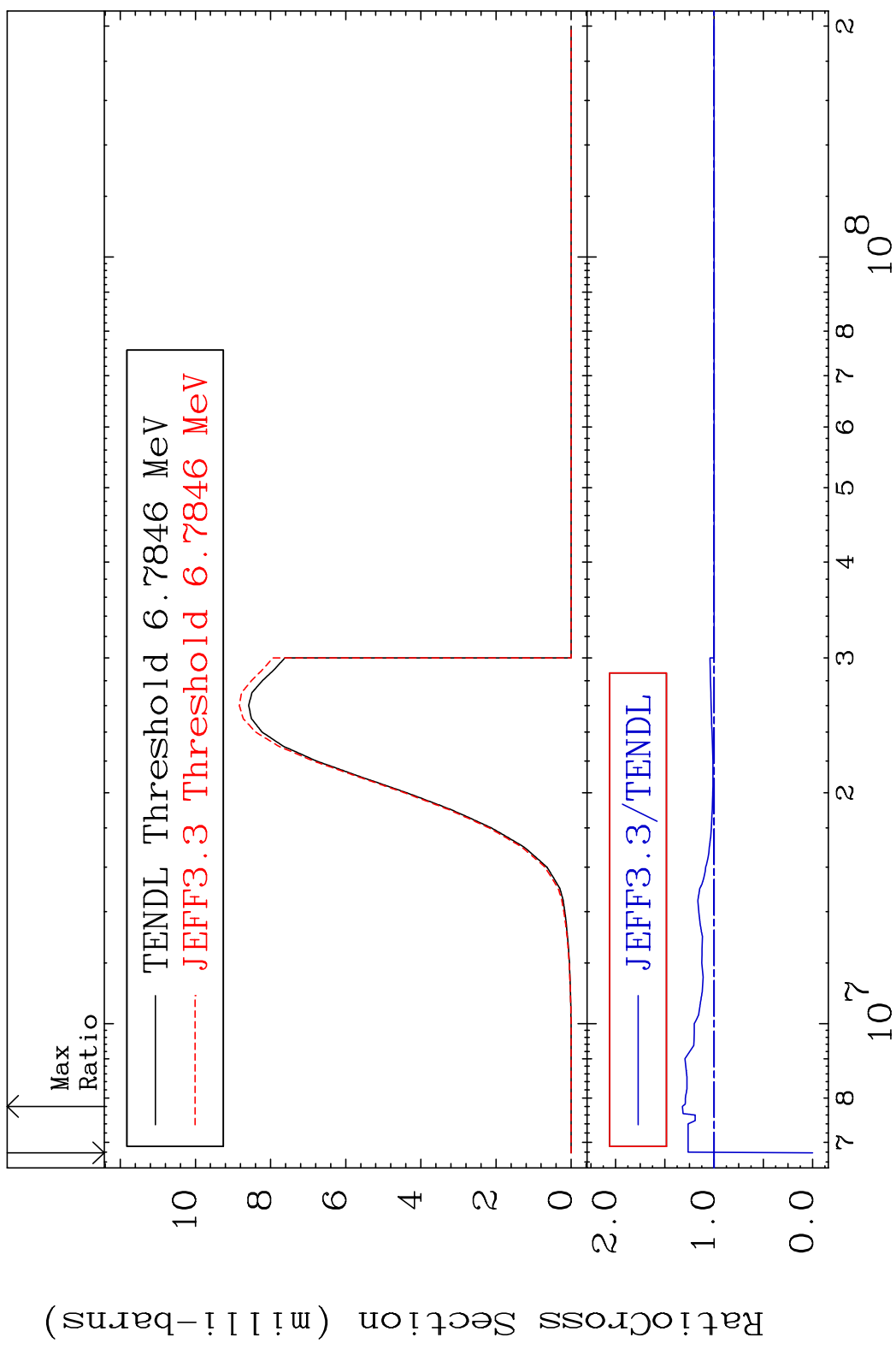
27-Co-56

MAT 2716

(n, t)

27-Co-56

Cross Section -100.0 To 32.12 %

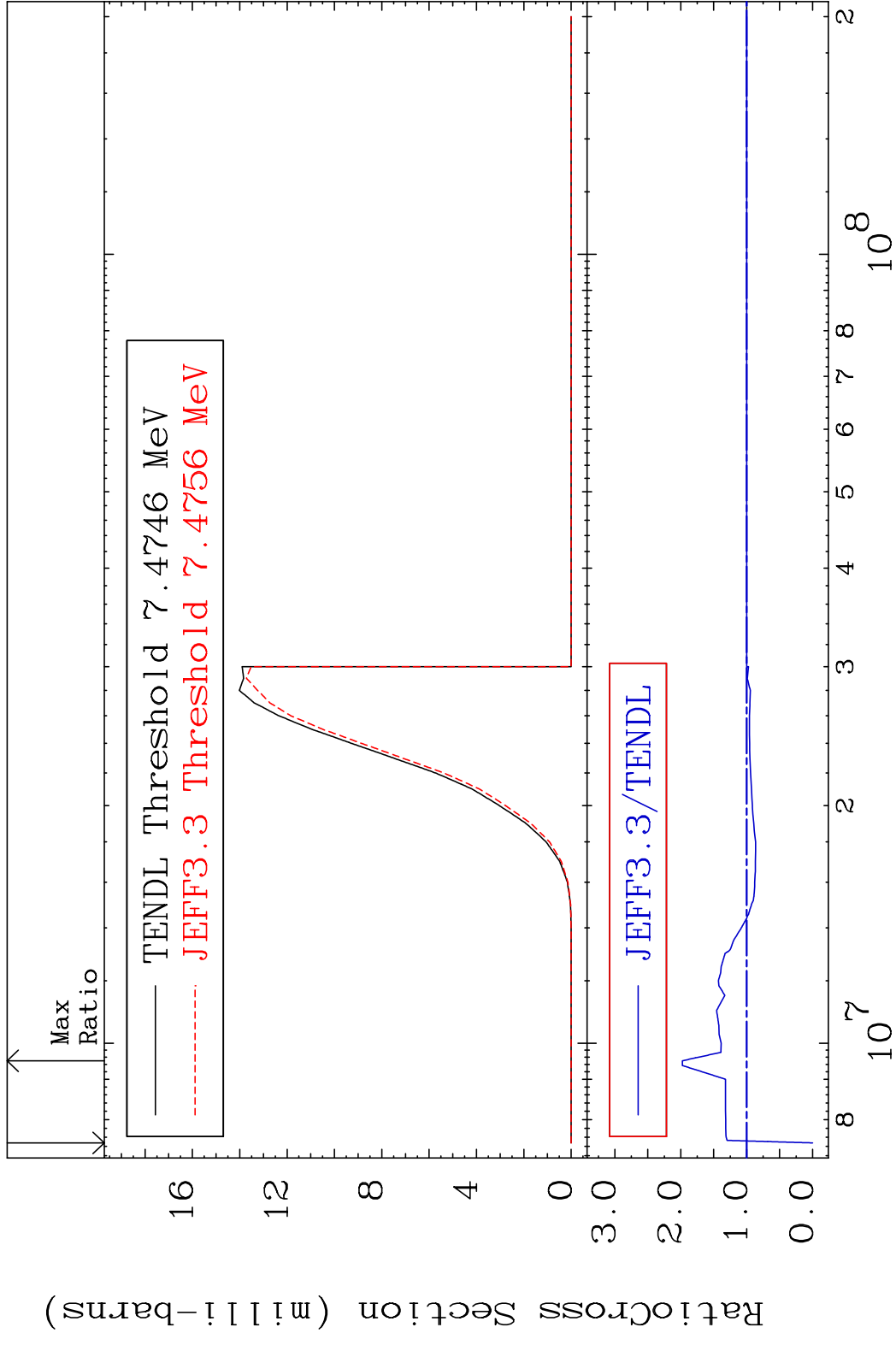


MAT 2716

(n, He-3)

27-Co-56

Cross Section -100.0 To 97.57 %

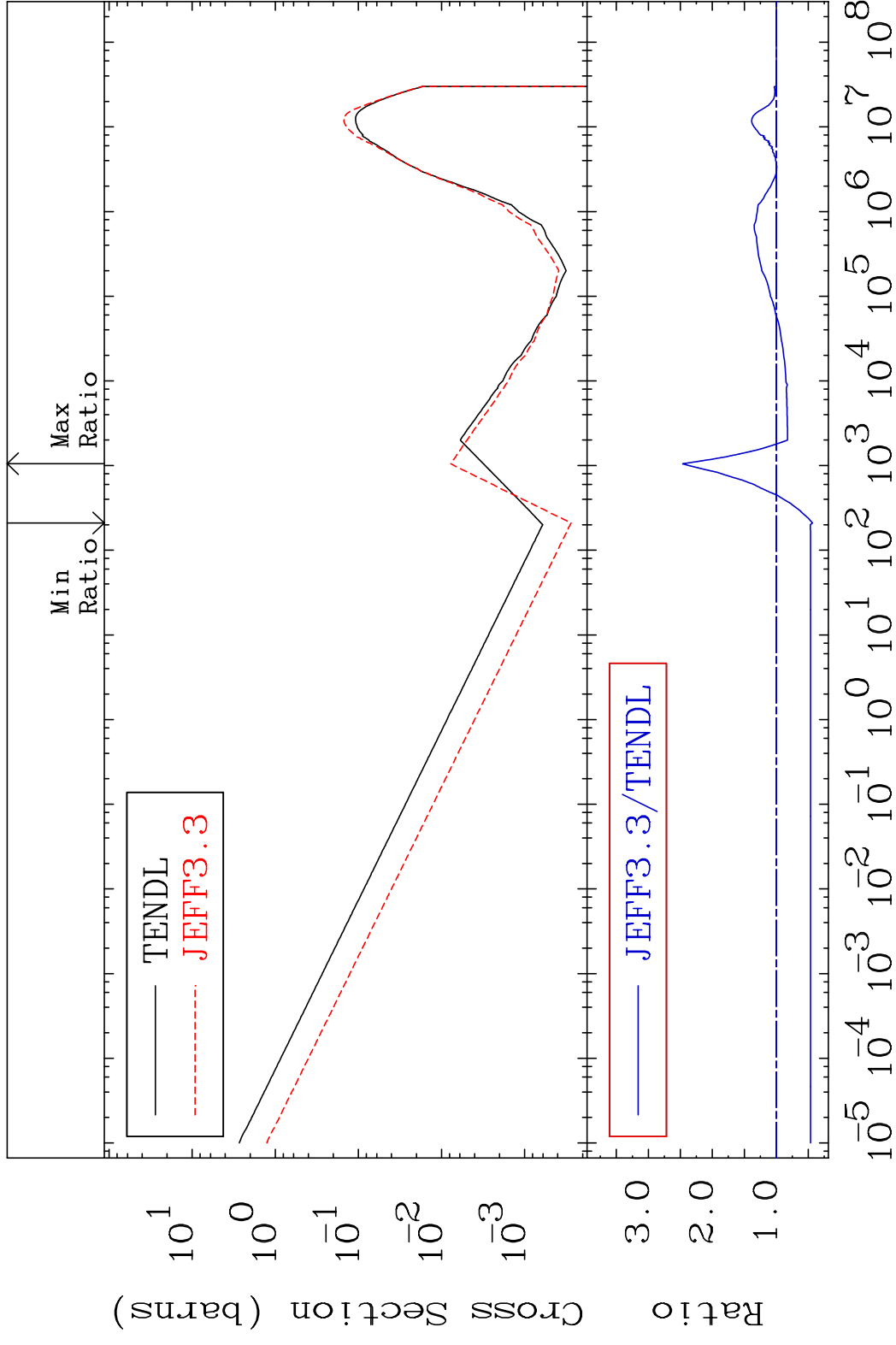


MAT 2716

27-Co-56

(n, α)

Cross Section -56.65 To 146.8 %



53

Incident Energy (eV)

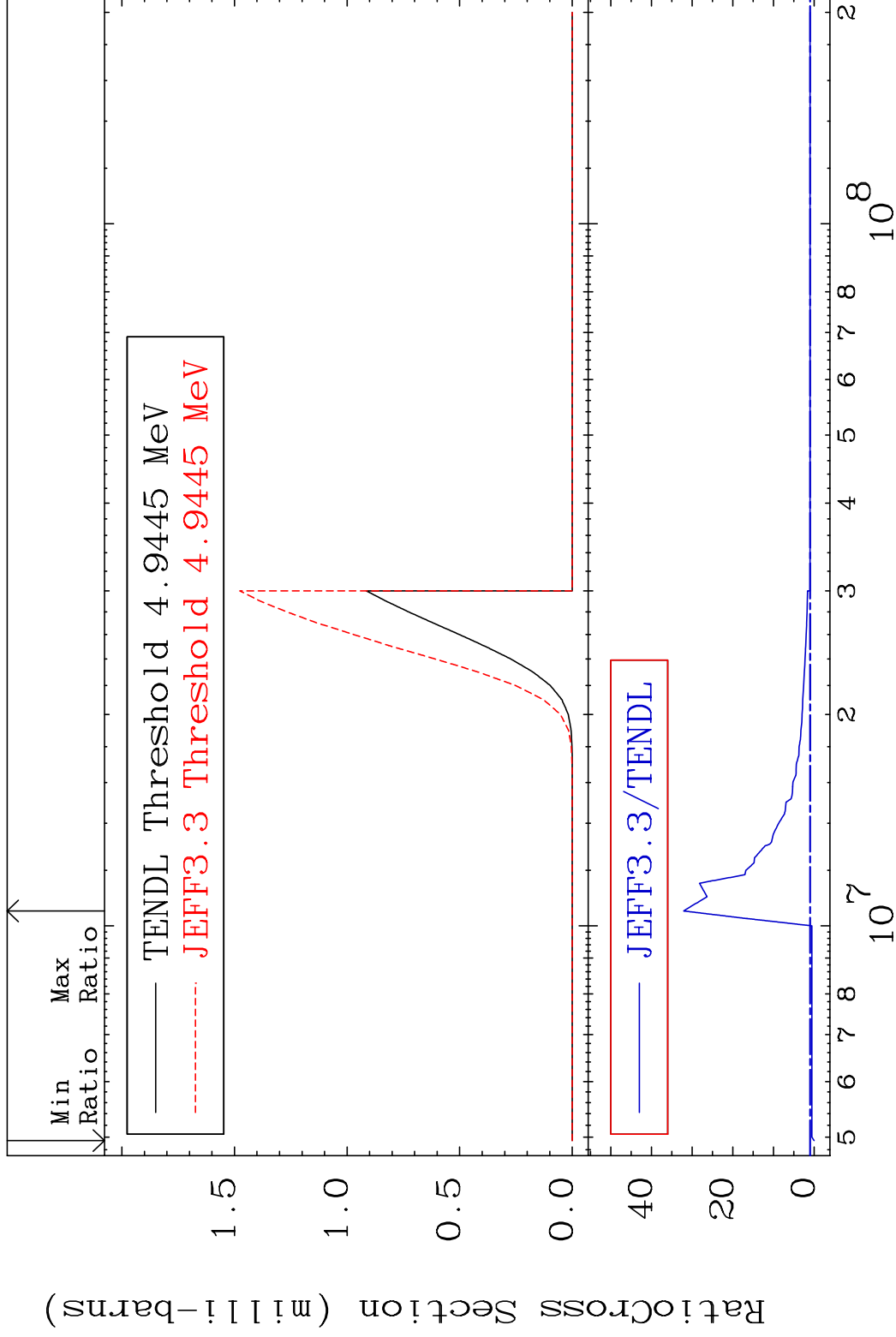
27-Co-56

MAT 2716

(n,2α)

27-Co-56

Cross Section -100.0 To 3108. %



54

Incident Energy (eV)

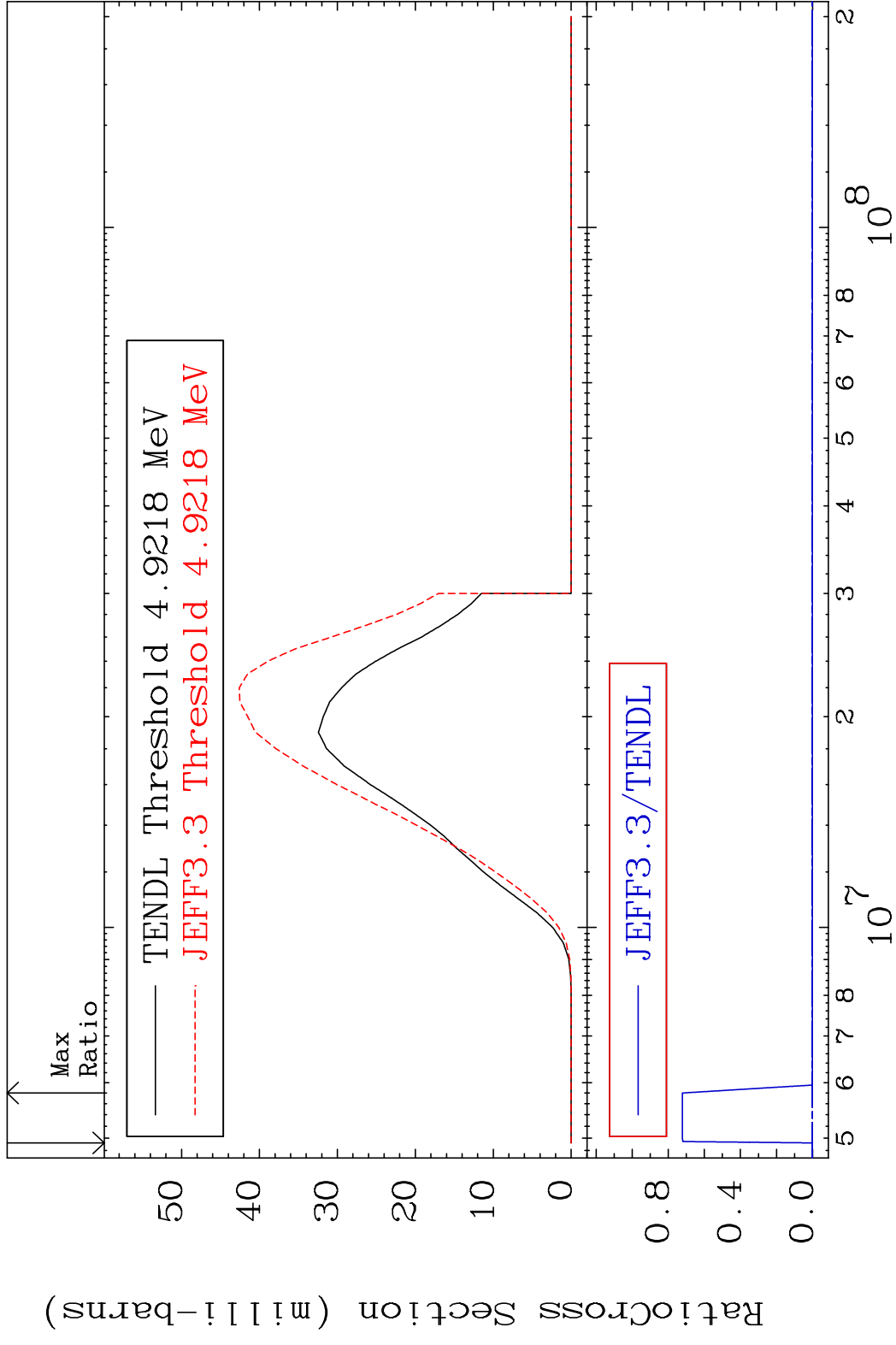
27-Co-56

MAT 2716

(n,2p)

27-Co-56

Cross Section -100.0 To 9999. %

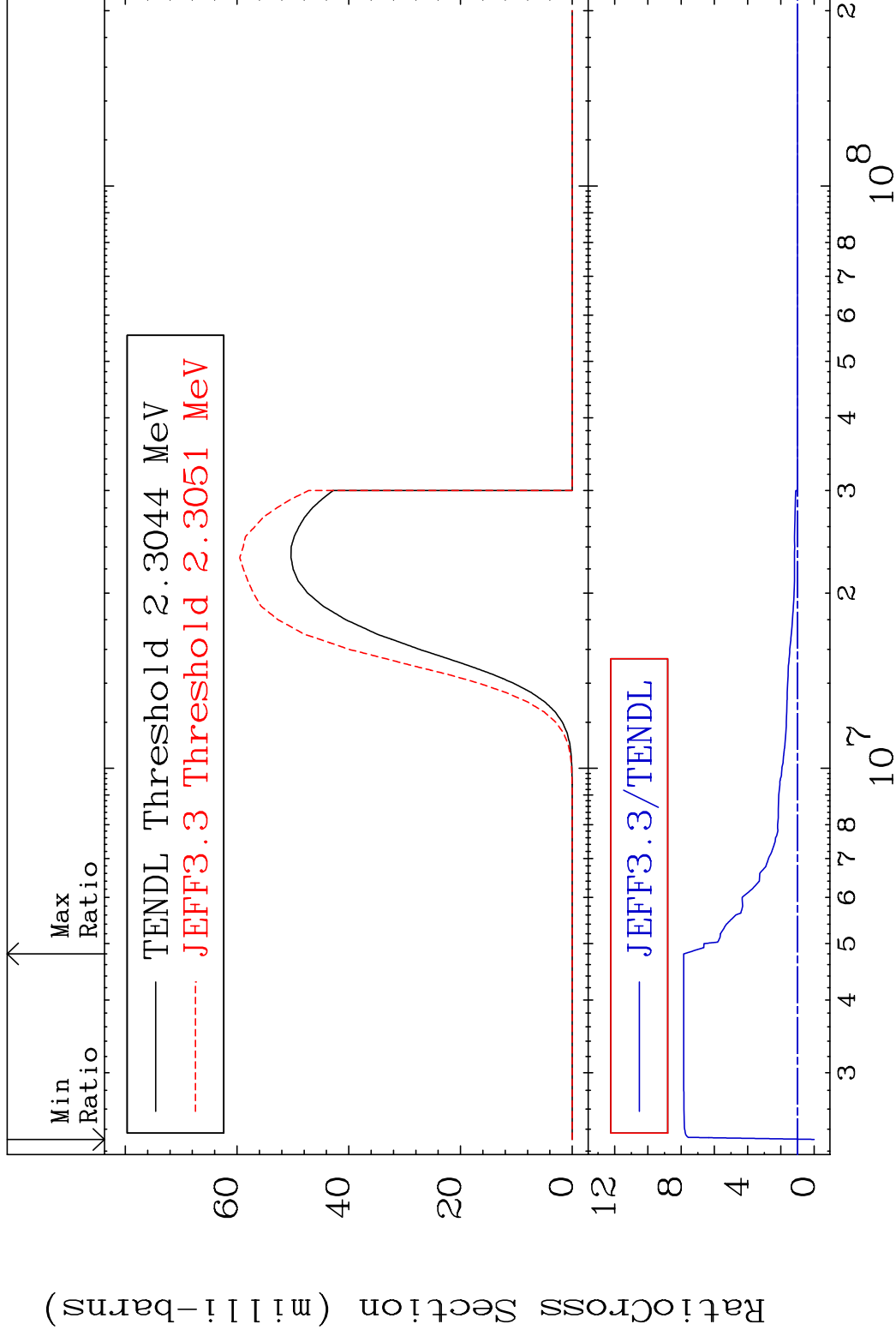


MAT 2716

(n,p) α

27-Co-56

Cross Section -100.0 To 684.8 %



56

Incident Energy (eV)

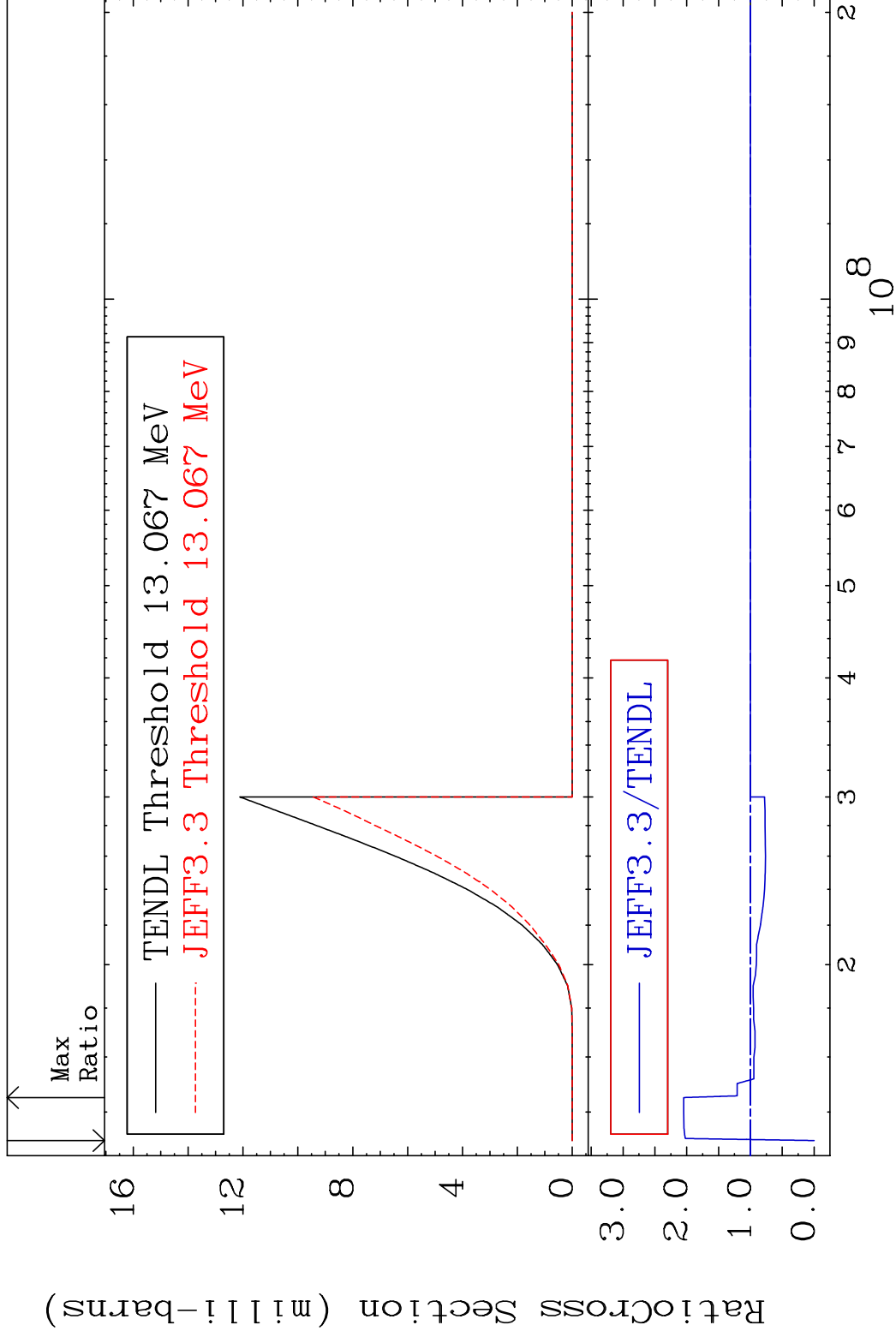
27-Co-56

MAT 2716

(n,p) d

27-Co-56

Cross Section -100.0 To 104.8 %



57

Incident Energy (eV)

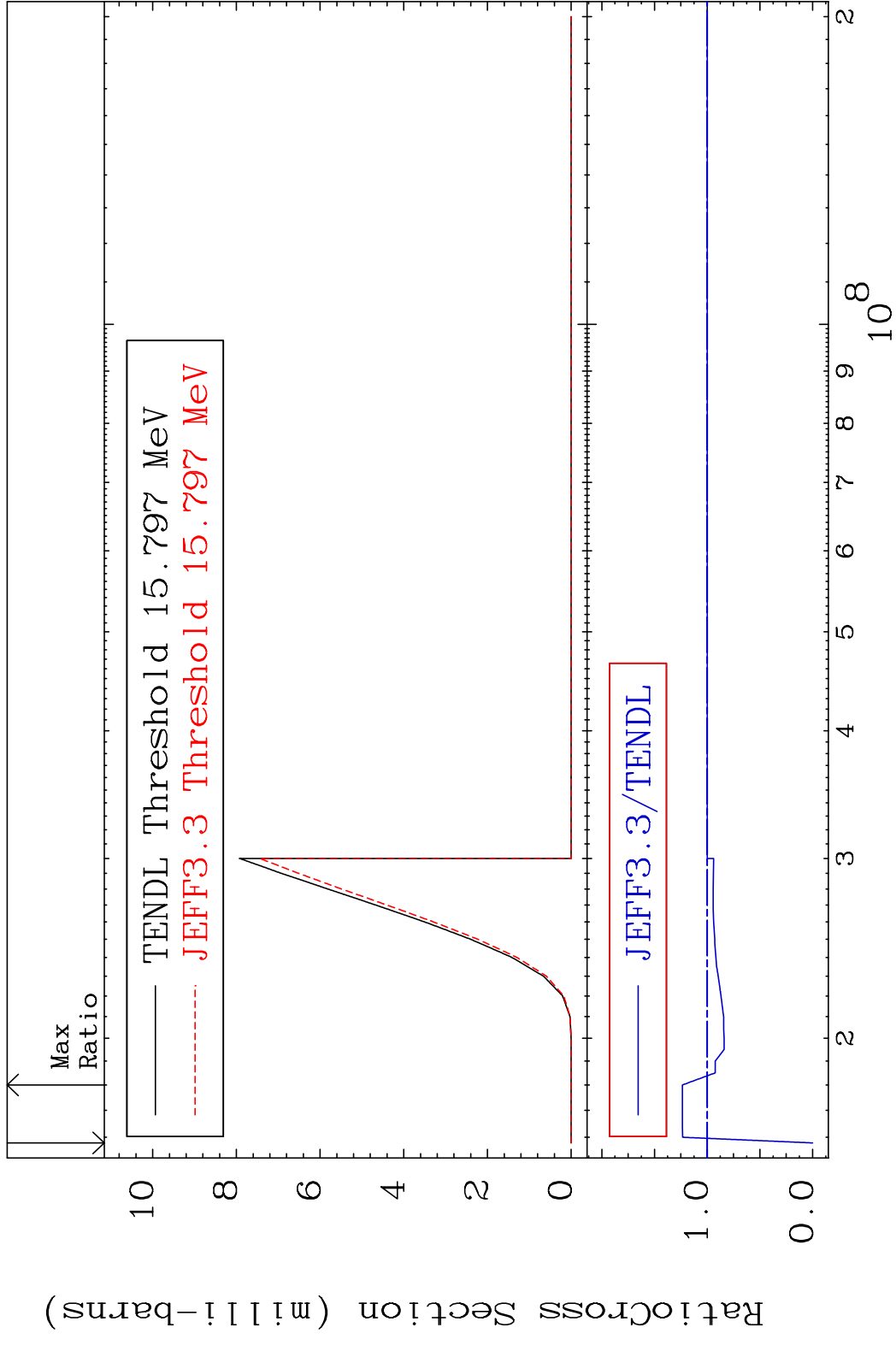
27-Co-56

MAT 2716

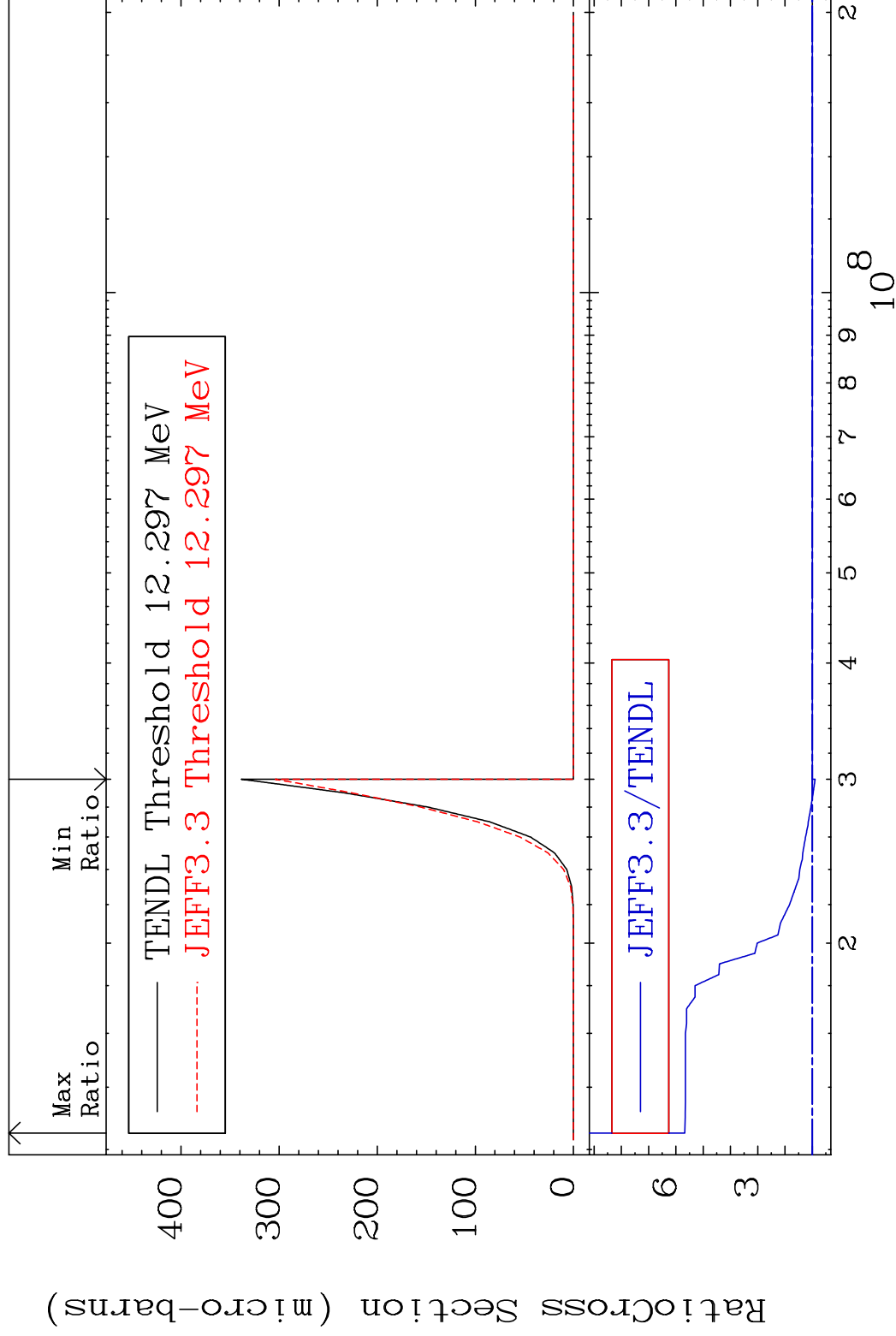
(n,p) t

27-Co-56

Cross Section -100.0 To 23.56 %



Cross Section -10.21 To 467.5 %

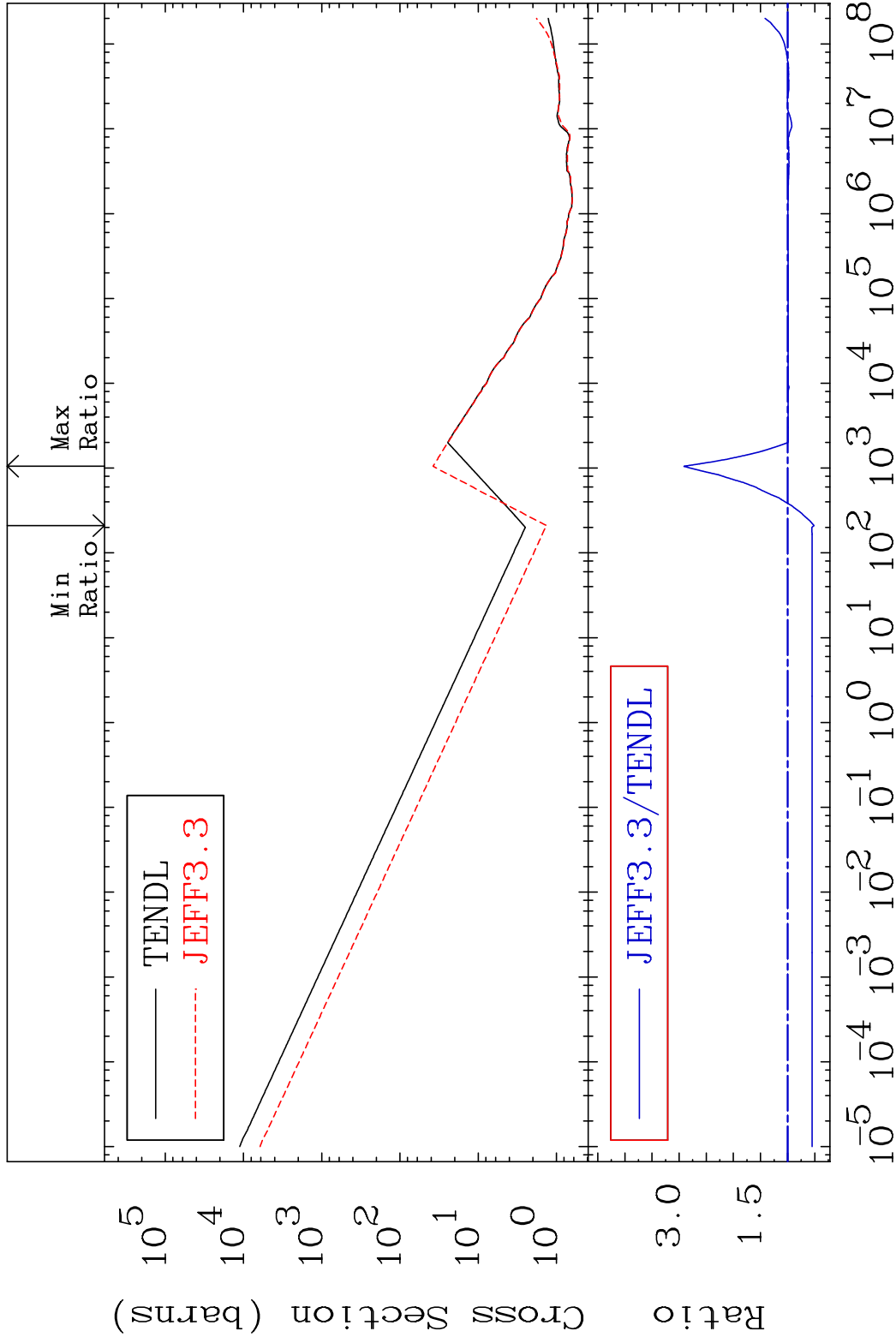


MAT 2716

Hydrogen Production

27-Co-56

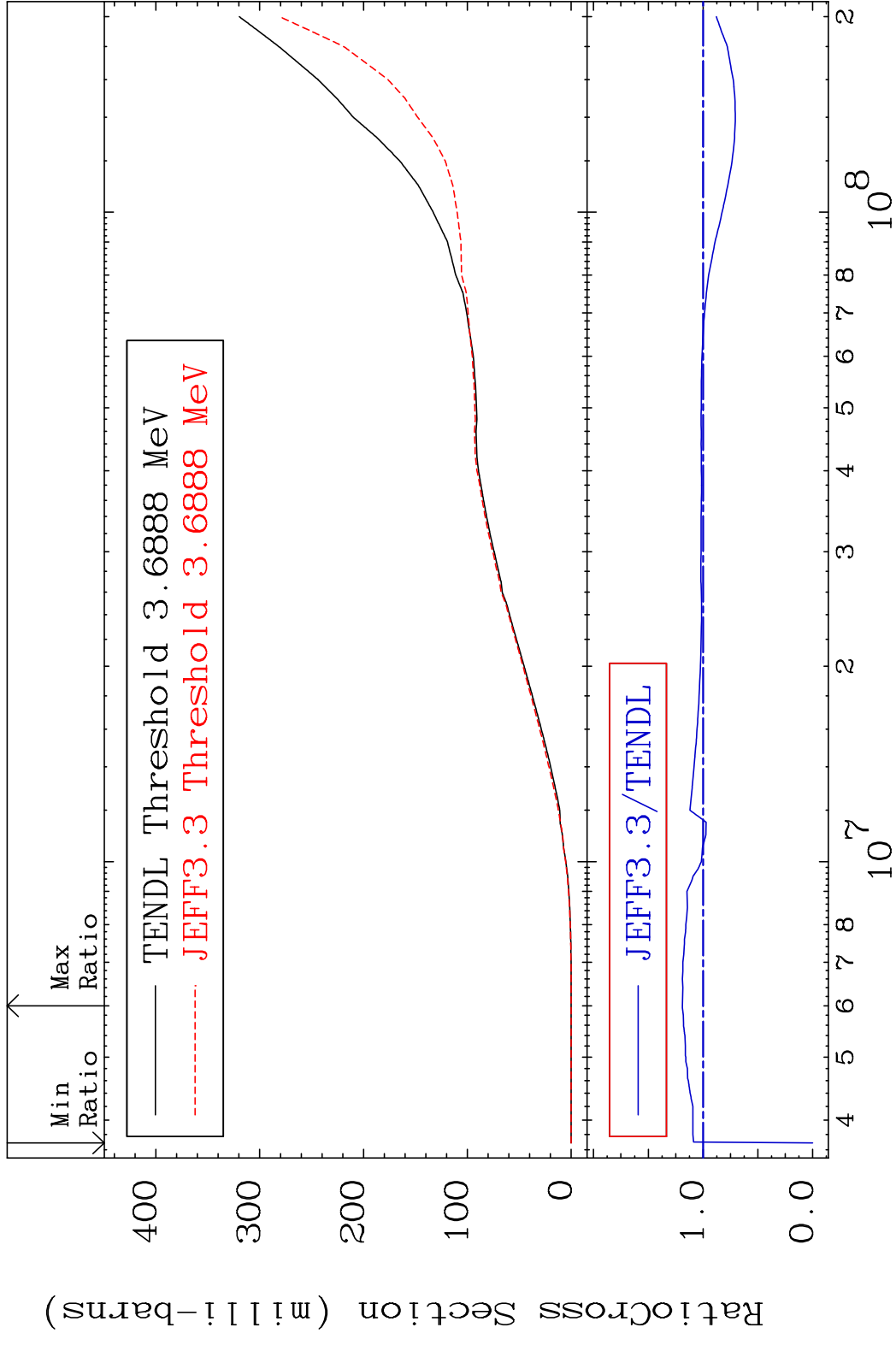
Cross Section -48.78 To 191.7 %



60

Incident Energy (eV)

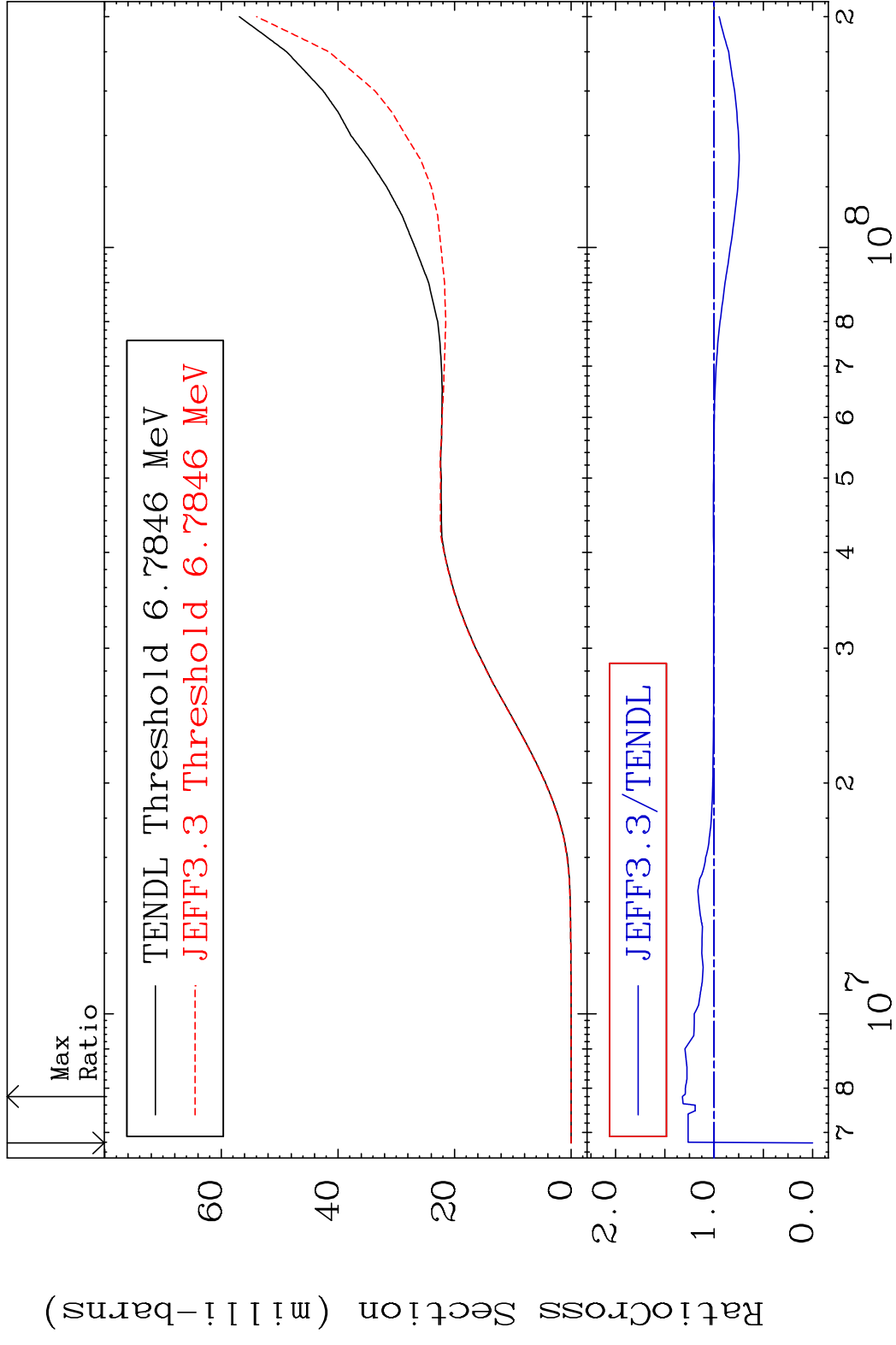
27-Co-56



MAT 2716

Tritium Production 27-Co-56

Cross Section -100.0 To 32.12 %



62

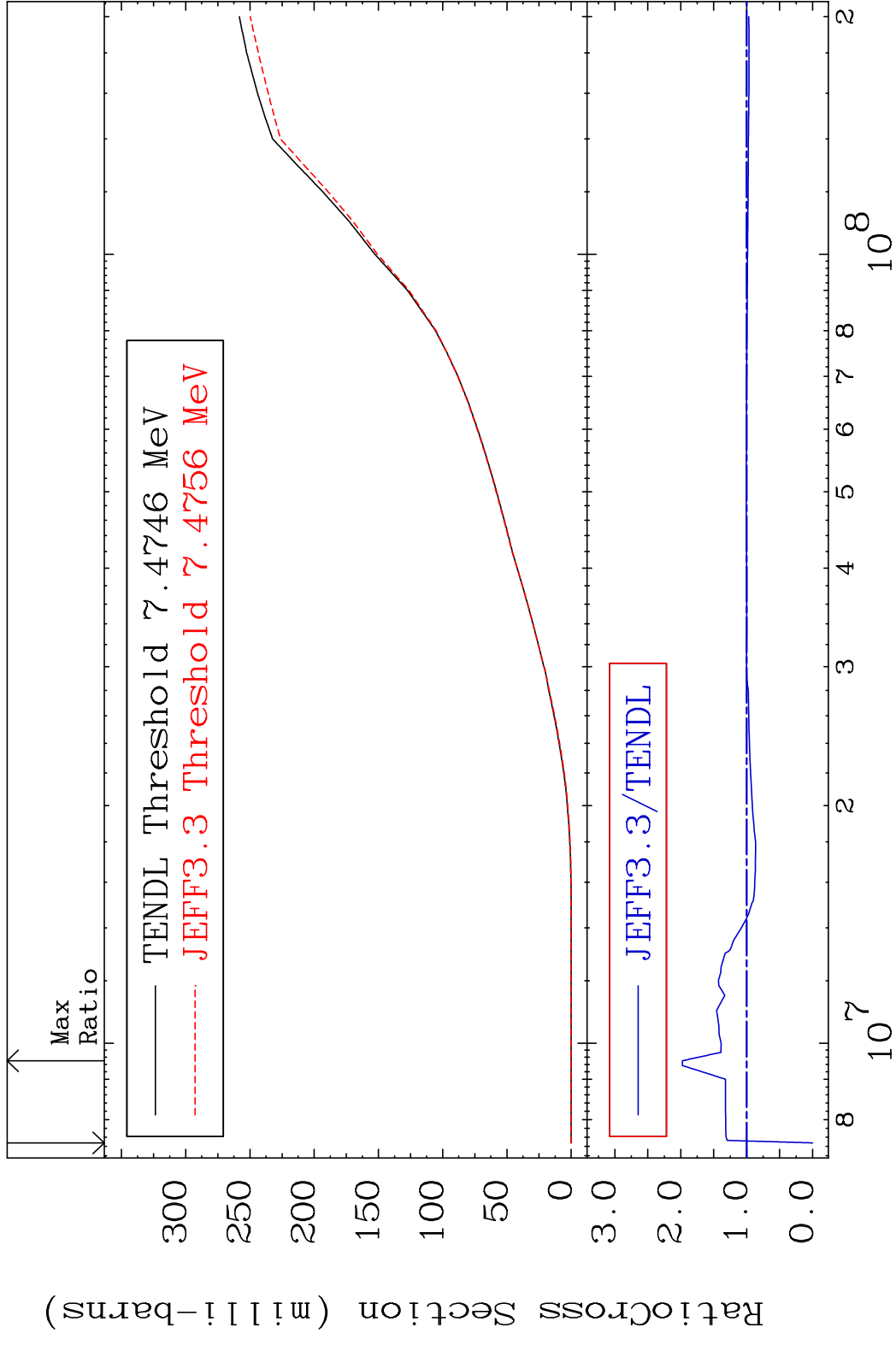
27-Co-56

MAT 2716

He-3 Production

27-Co-56

Cross Section -100.0 To 97.57 %

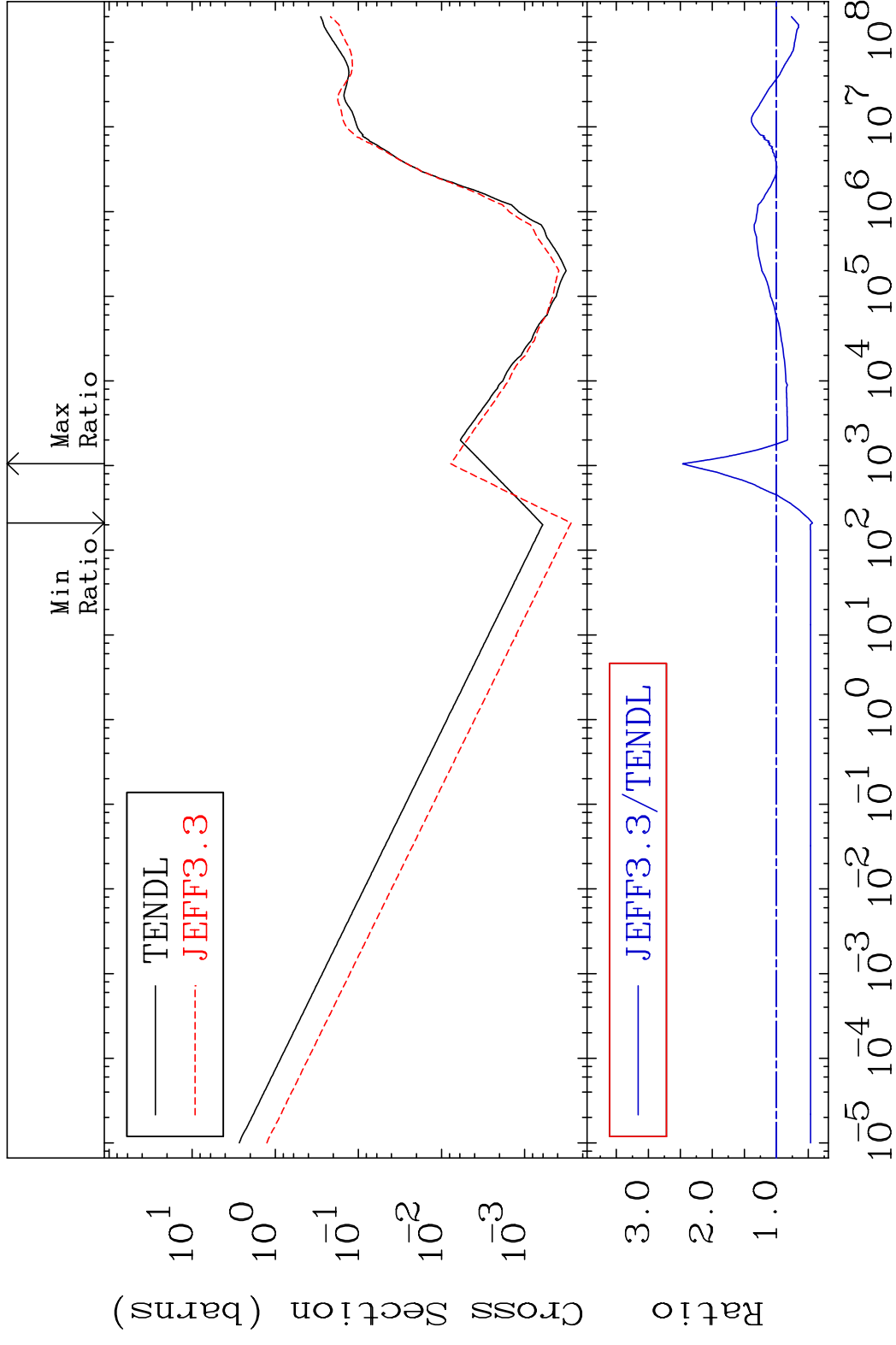


63

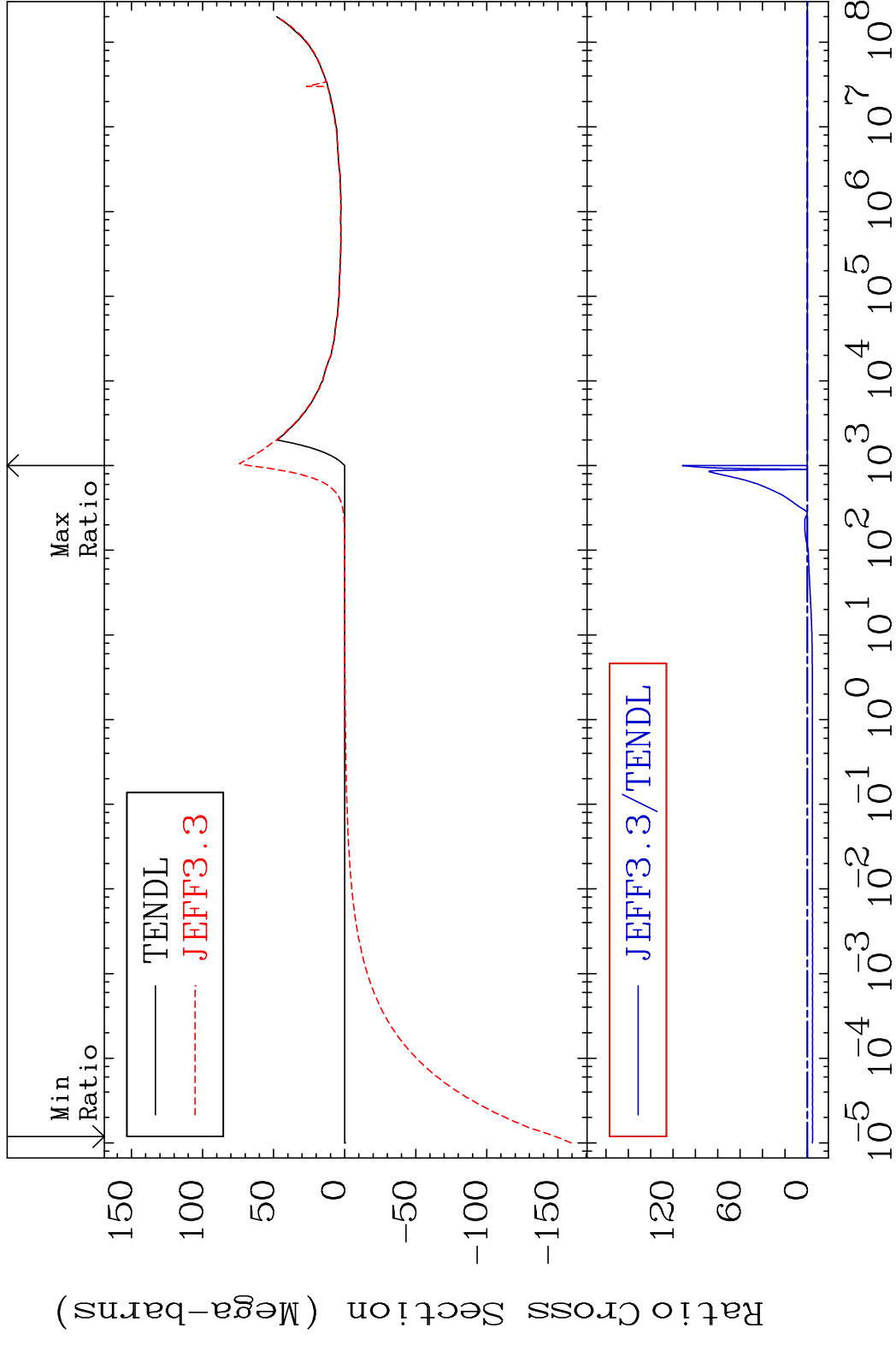
Incident Energy (eV)

27-Co-56

Cross Section -56.65 To 146.8 %



MAT 2716 Kerma total (eV-barns) 27-Co-56
 Cross Section -9999. To 9999. %

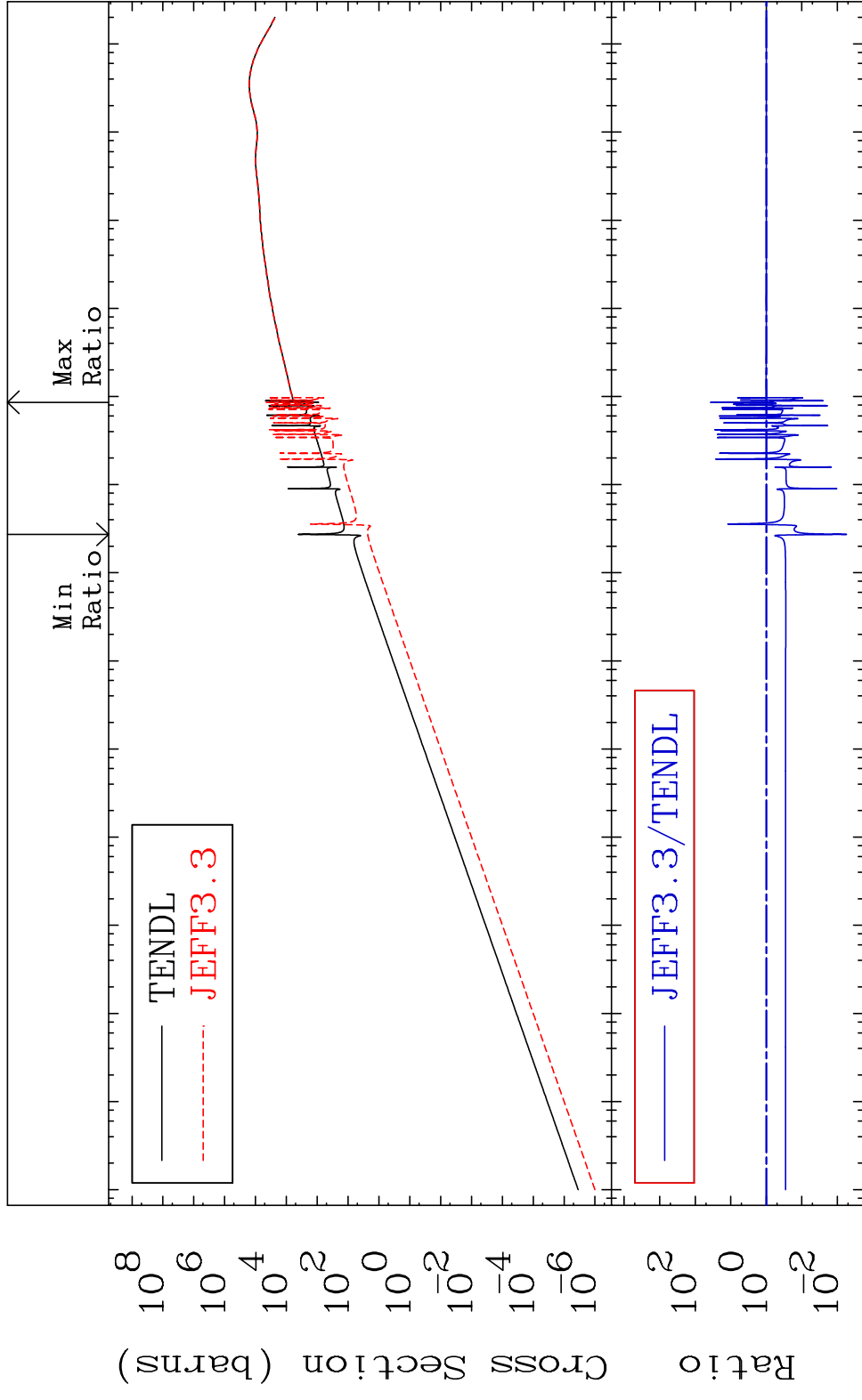


65 Incident Energy (eV) 27-Co-56

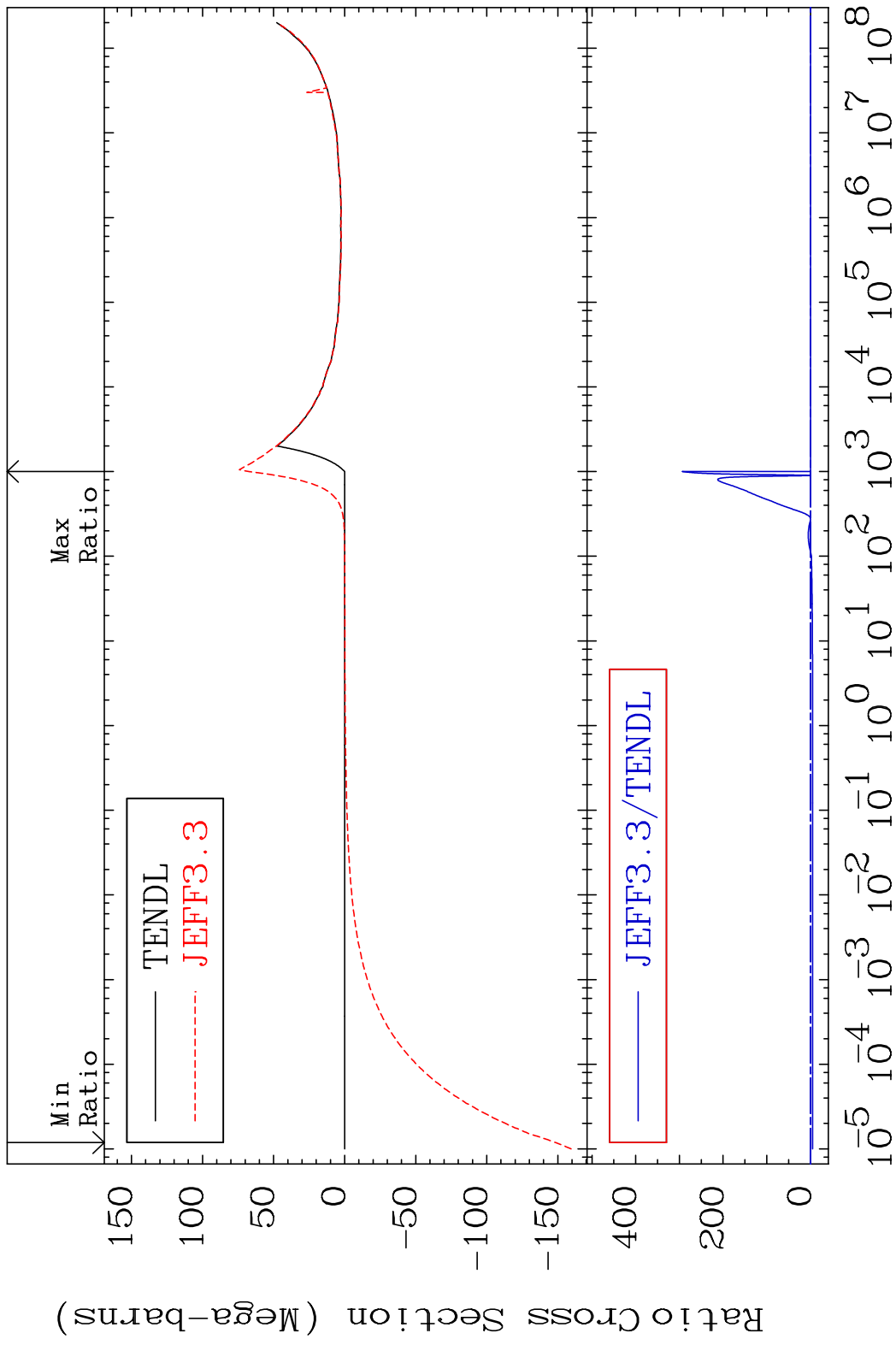
MAT 2716

Kerma elastic
Cross Section

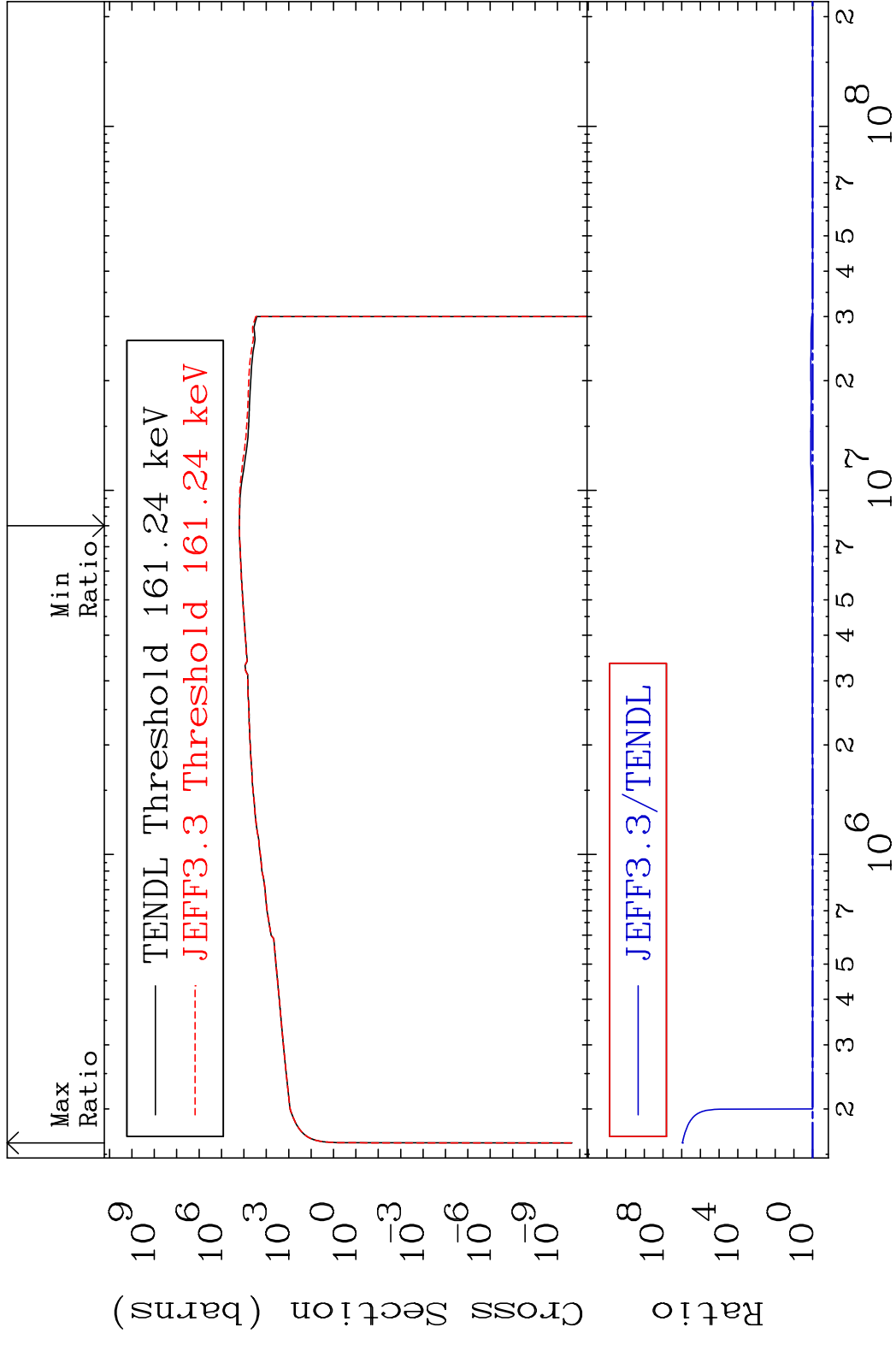
27-Co-56
-99.44 To 3563. %



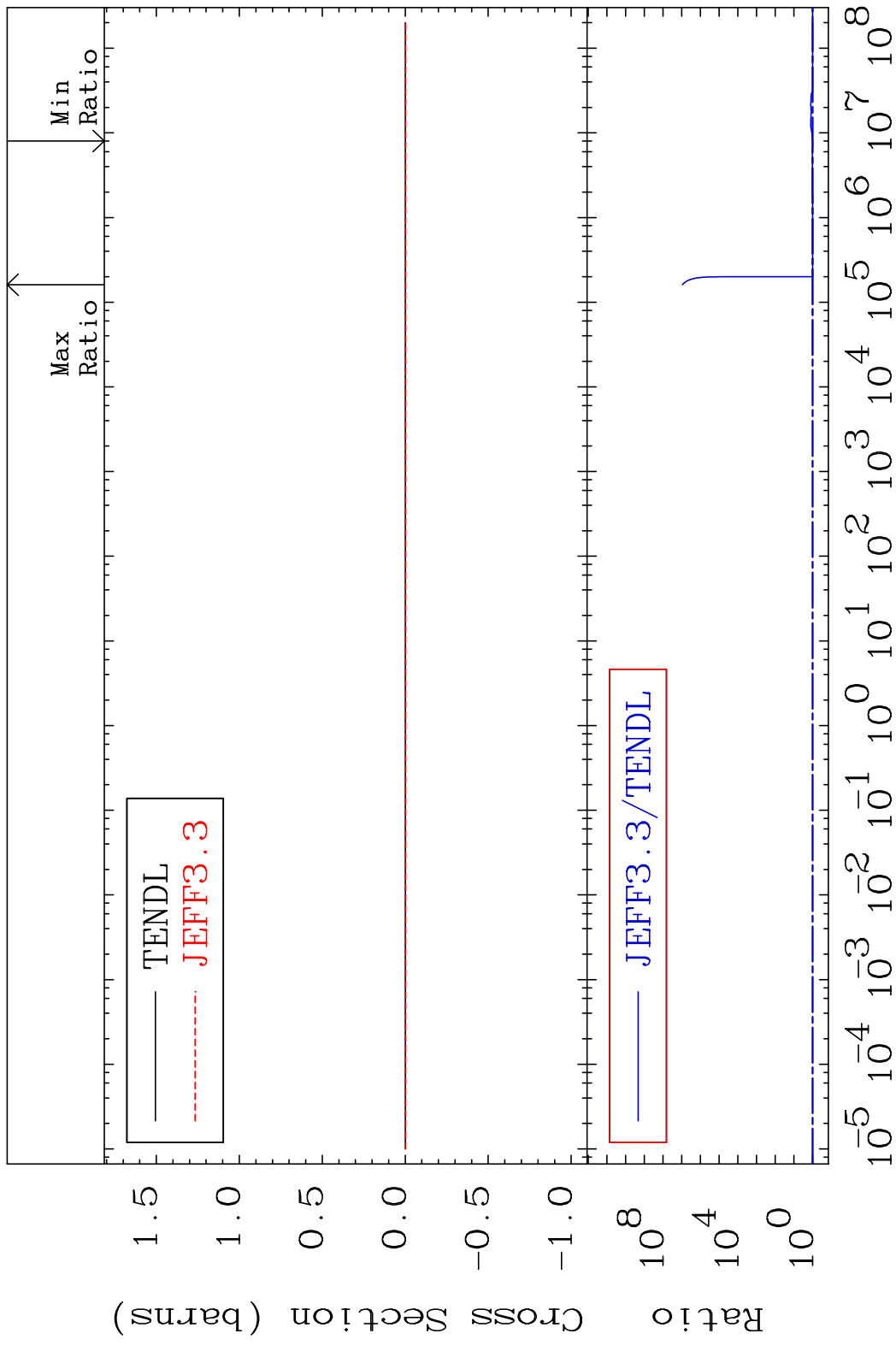
MAT 2716 Kerma non-elastic (all but mt2) 27-Co-56
 Cross Section -9999. To 9999. %



MAT 2716 Kerma inelastic (mt51-91) 27-Co-56
 Cross Section -0.670 To 9999. %

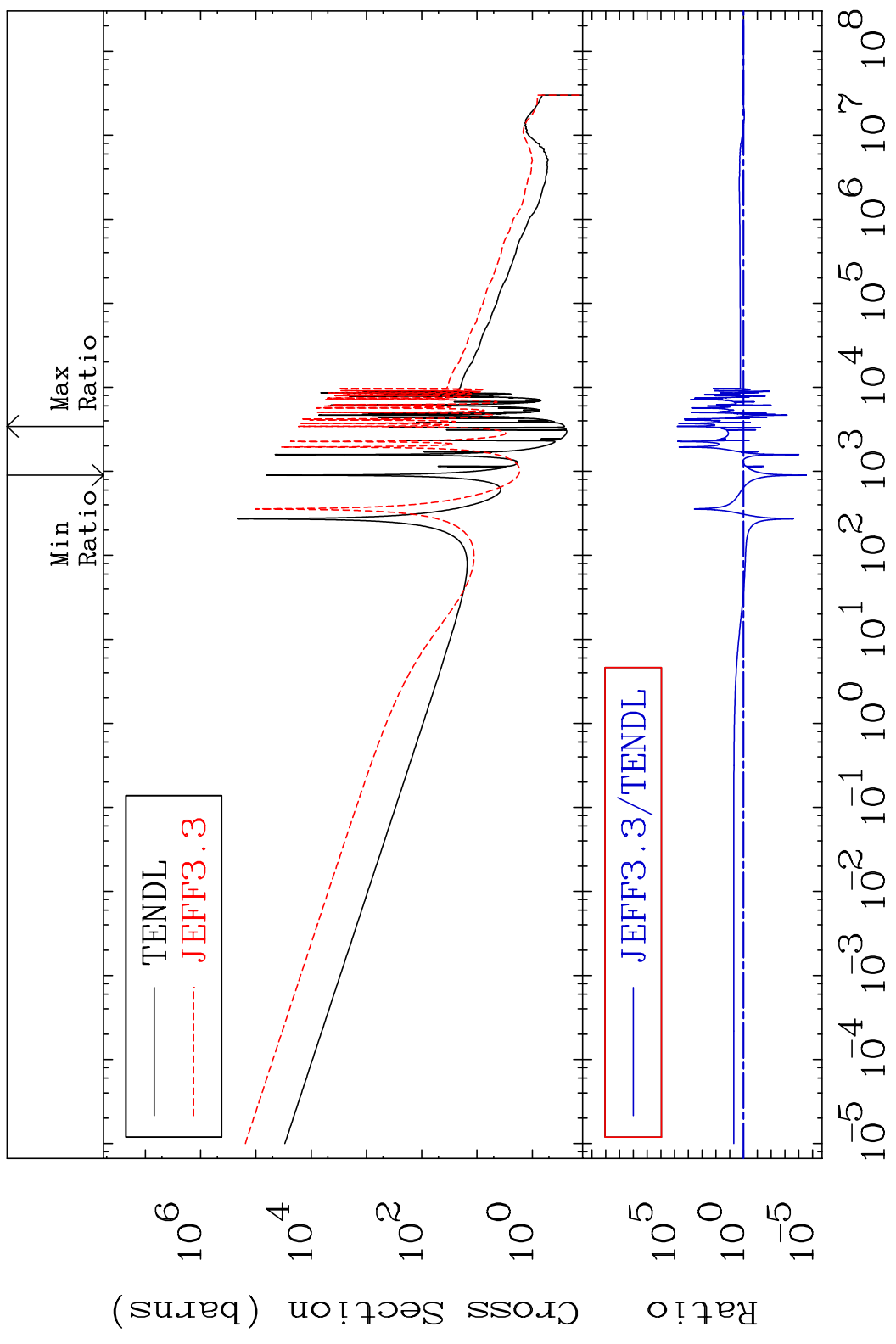


MAT 2716 Kerma fission (mt18 or mt19-20-21-38) 27-Co-56
 Cross Section -0.670 To 9999. %



MAT 2716

Kerma capture (mt102) 27-Co-56
Cross Section -100.0 To 9999. %

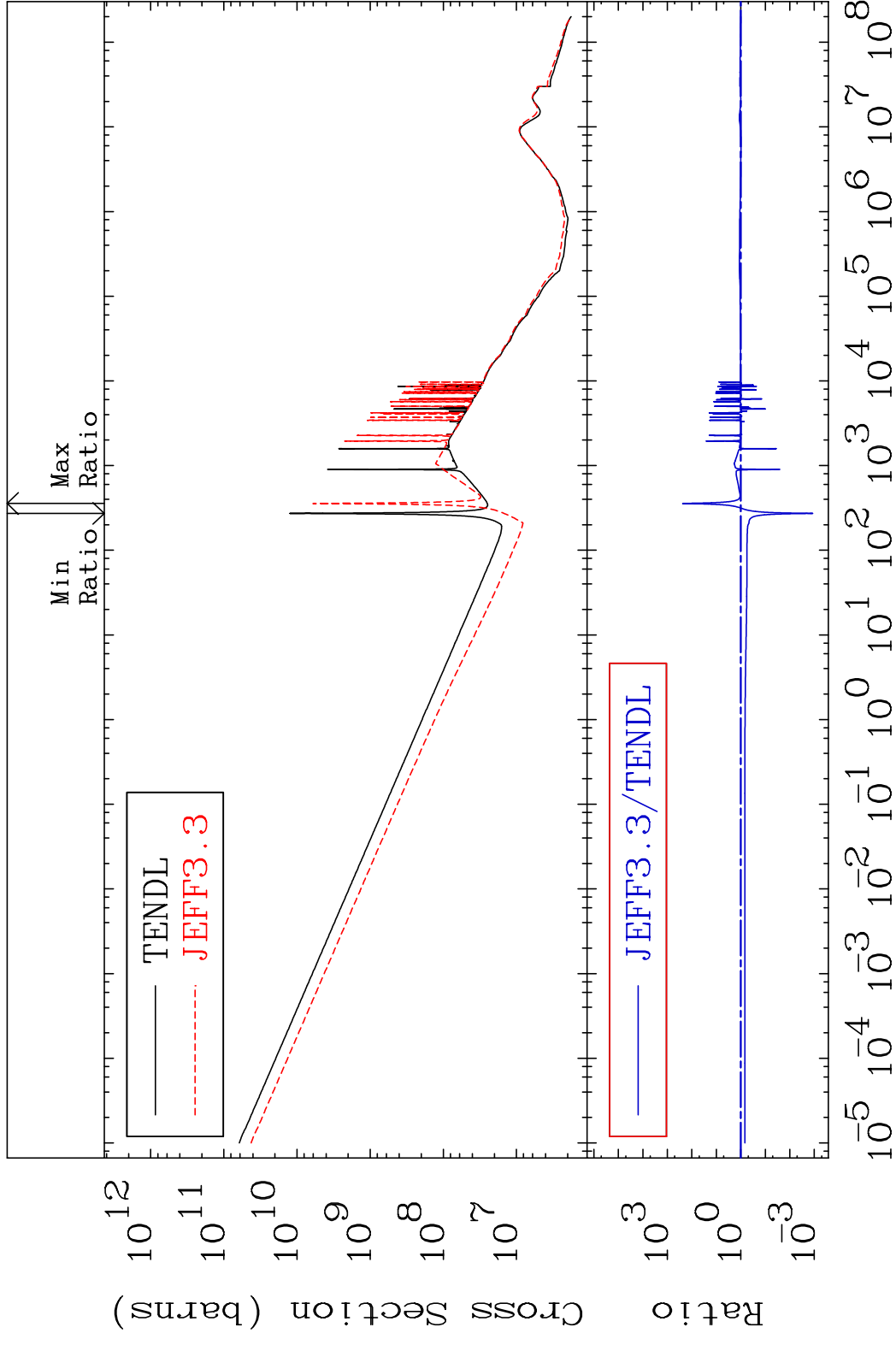


70

Incident Energy (eV) 27-Co-56

MAT 2716

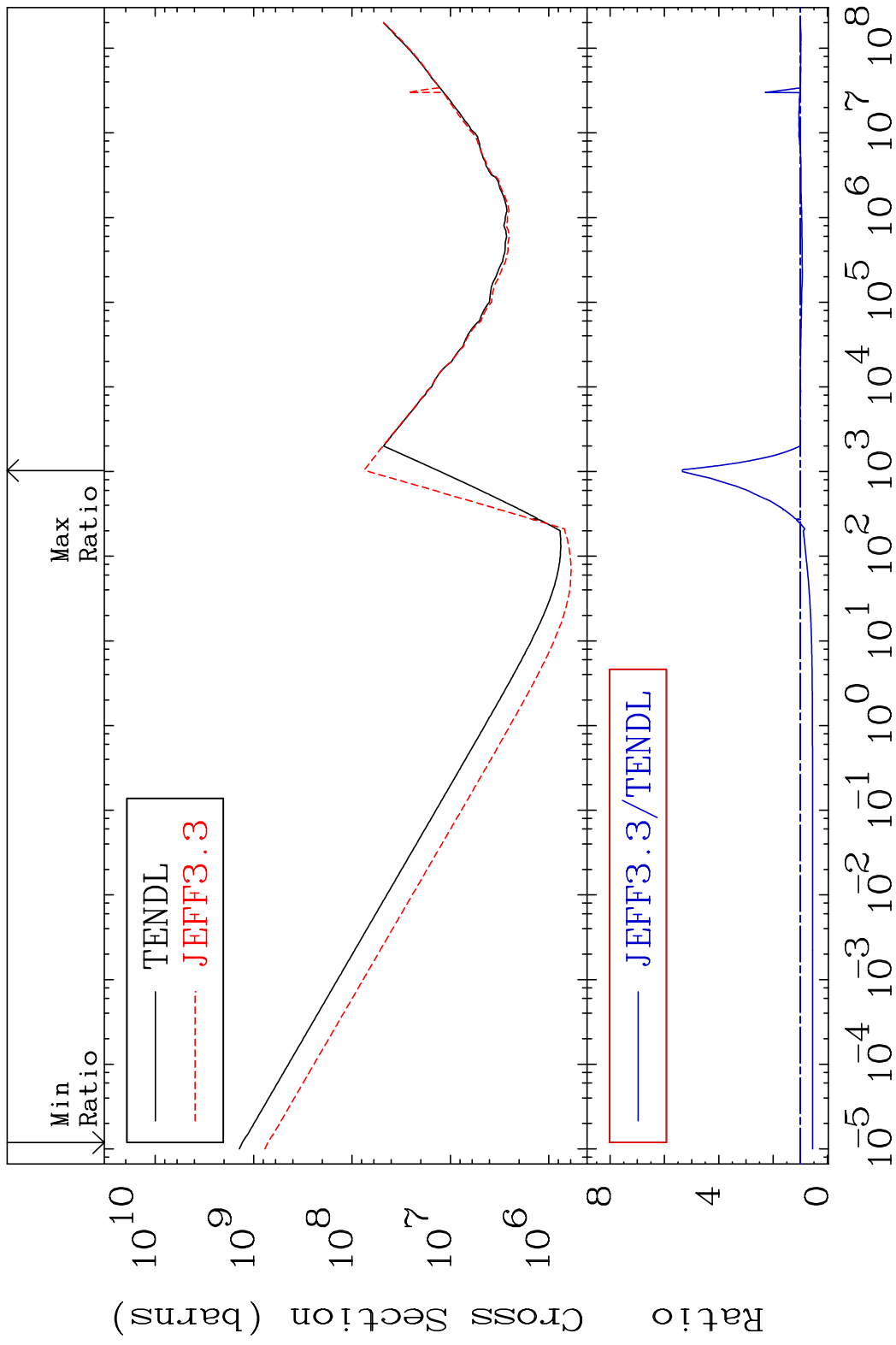
Total photon (eV-barns) 27-Co-56
Cross Section -99.88 To 9999. %



71

Incident Energy (eV) 27-Co-56

MAT 2716 Total kinematic kerma (high limit) 27-Co-56
 Cross Section -44.99 To 434.2 %

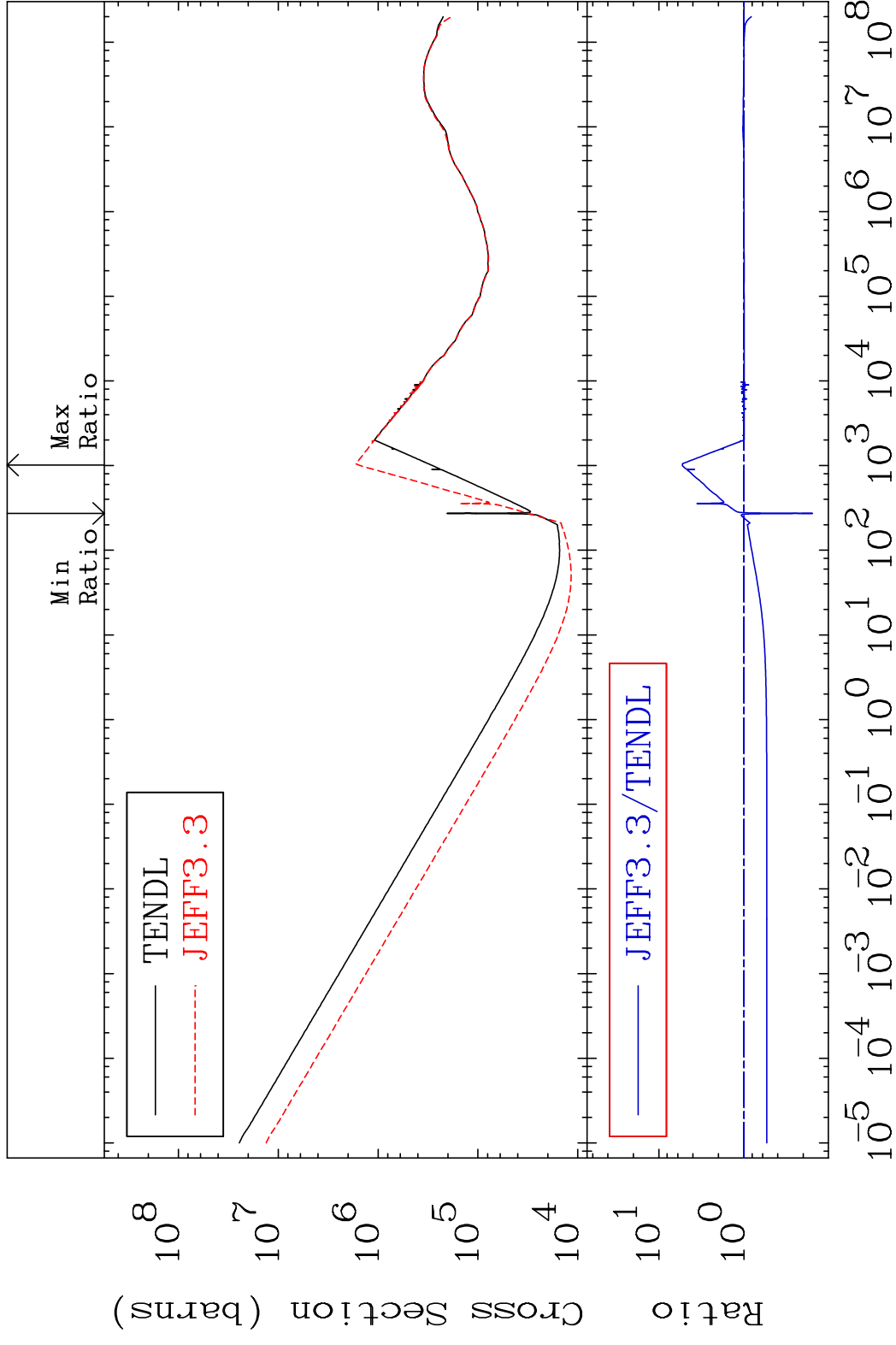


MAT 2716

Dpa total (eV-barns)

27-Co-56

Cross Section -84.44 To 430.4 %



73

Incident Energy (eV)

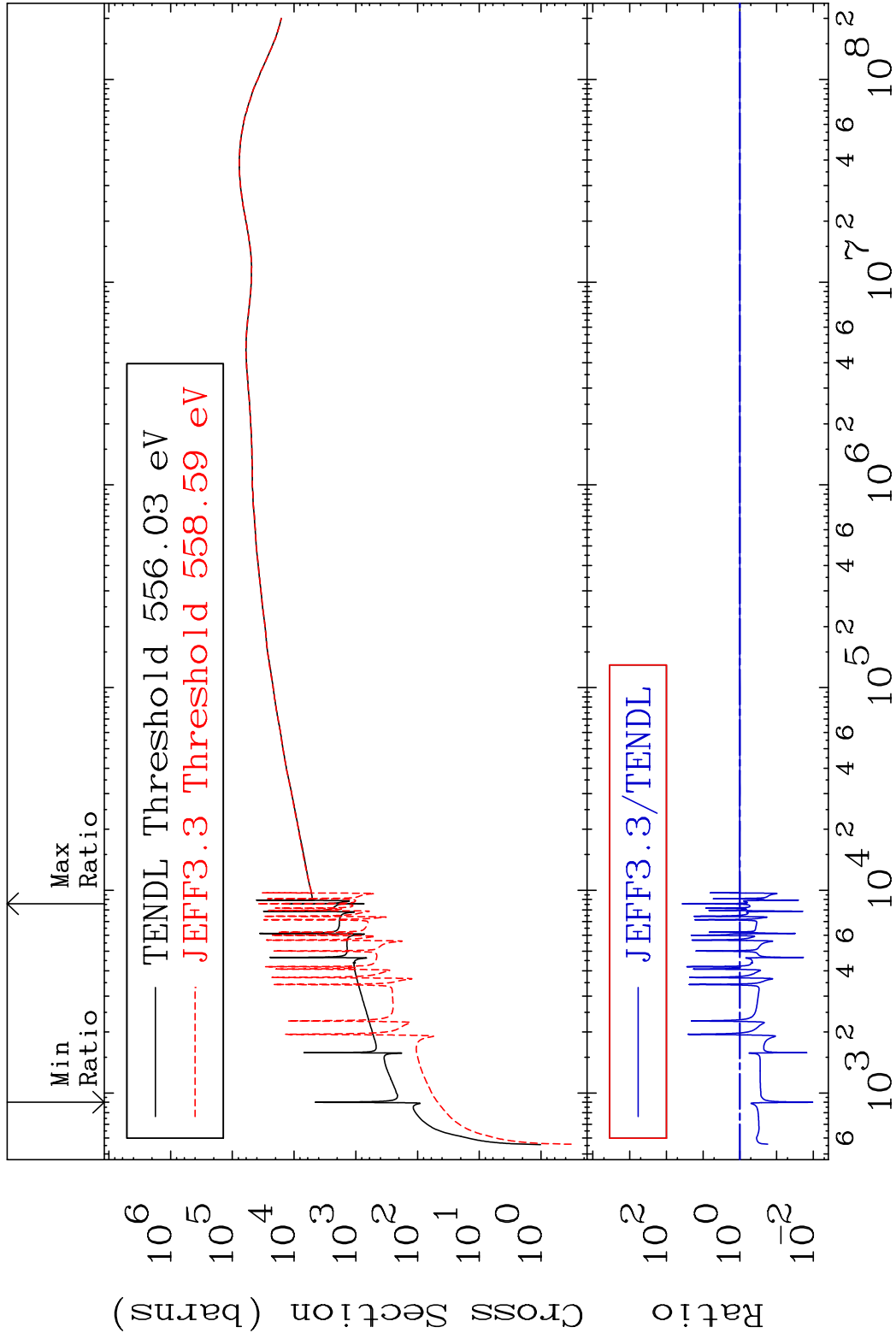
27-Co-56

MAT 2716

Dpa elastic (mt2)

27-Co-56

Cross Section -98.95 To 3563. %

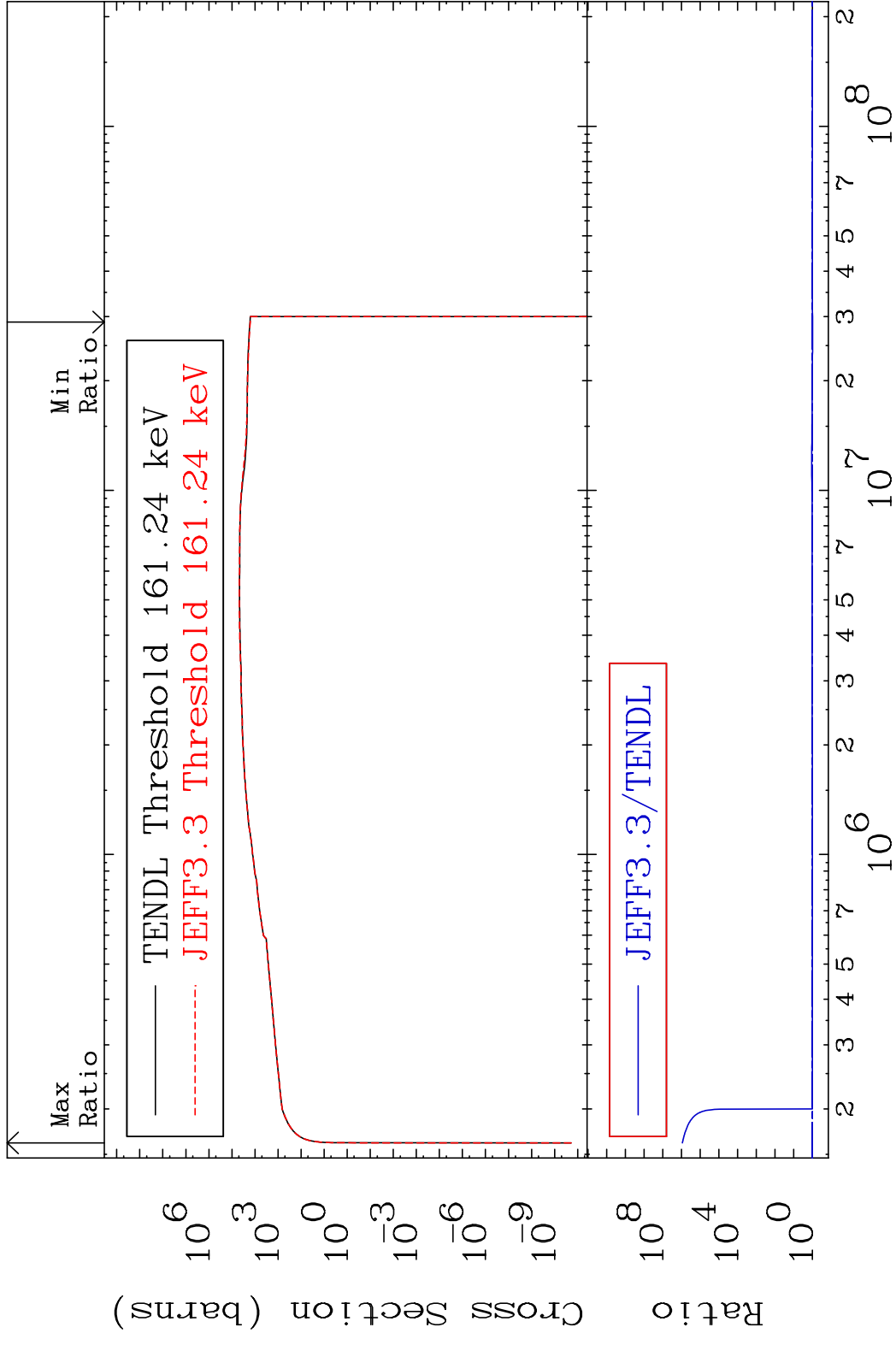


74

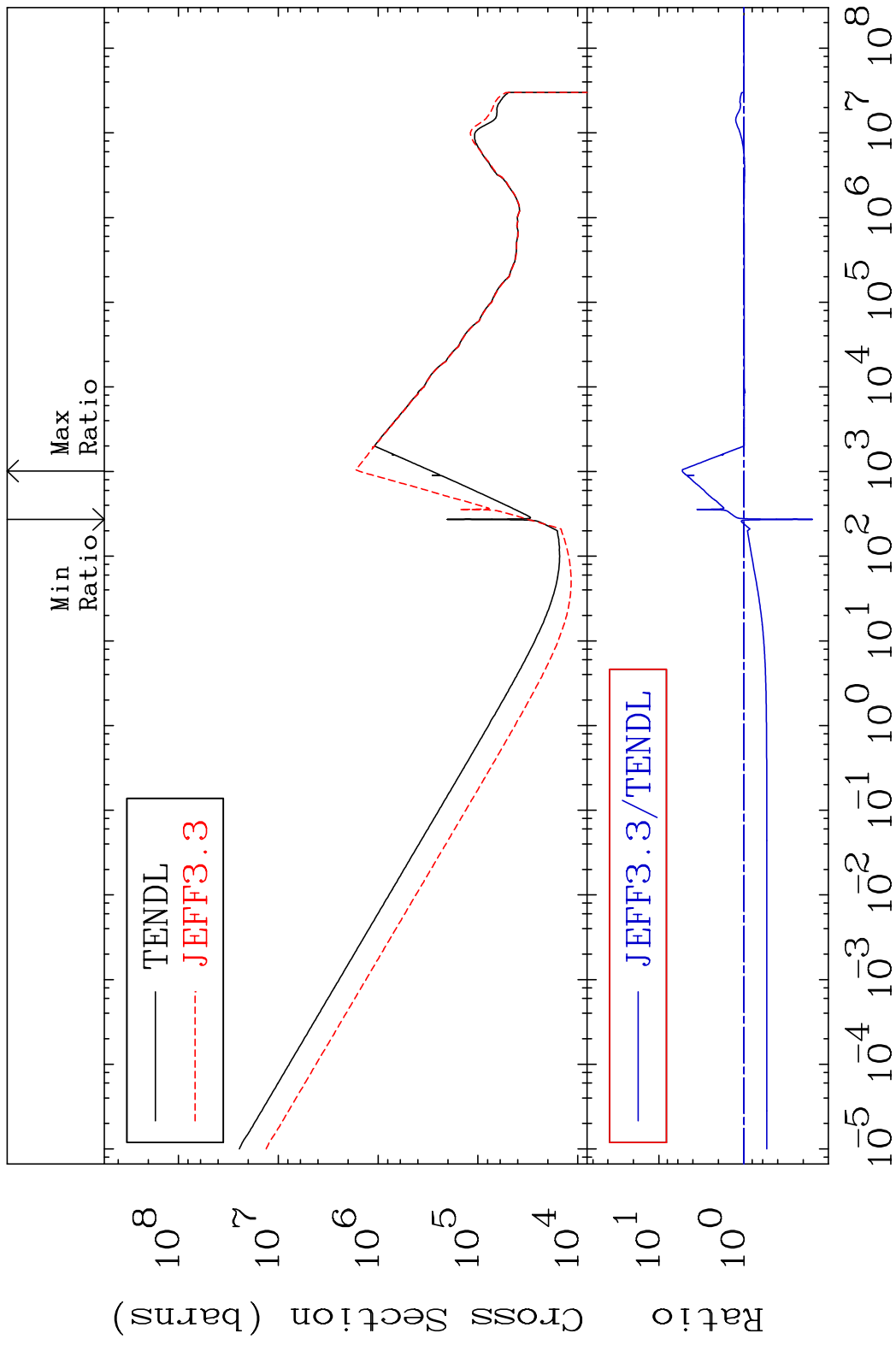
Incident Energy (eV)

27-Co-56

MAT 2716 Dpa inelastic (mt51-91) 27-Co-56
 Cross Section -3.306 To 9999. %

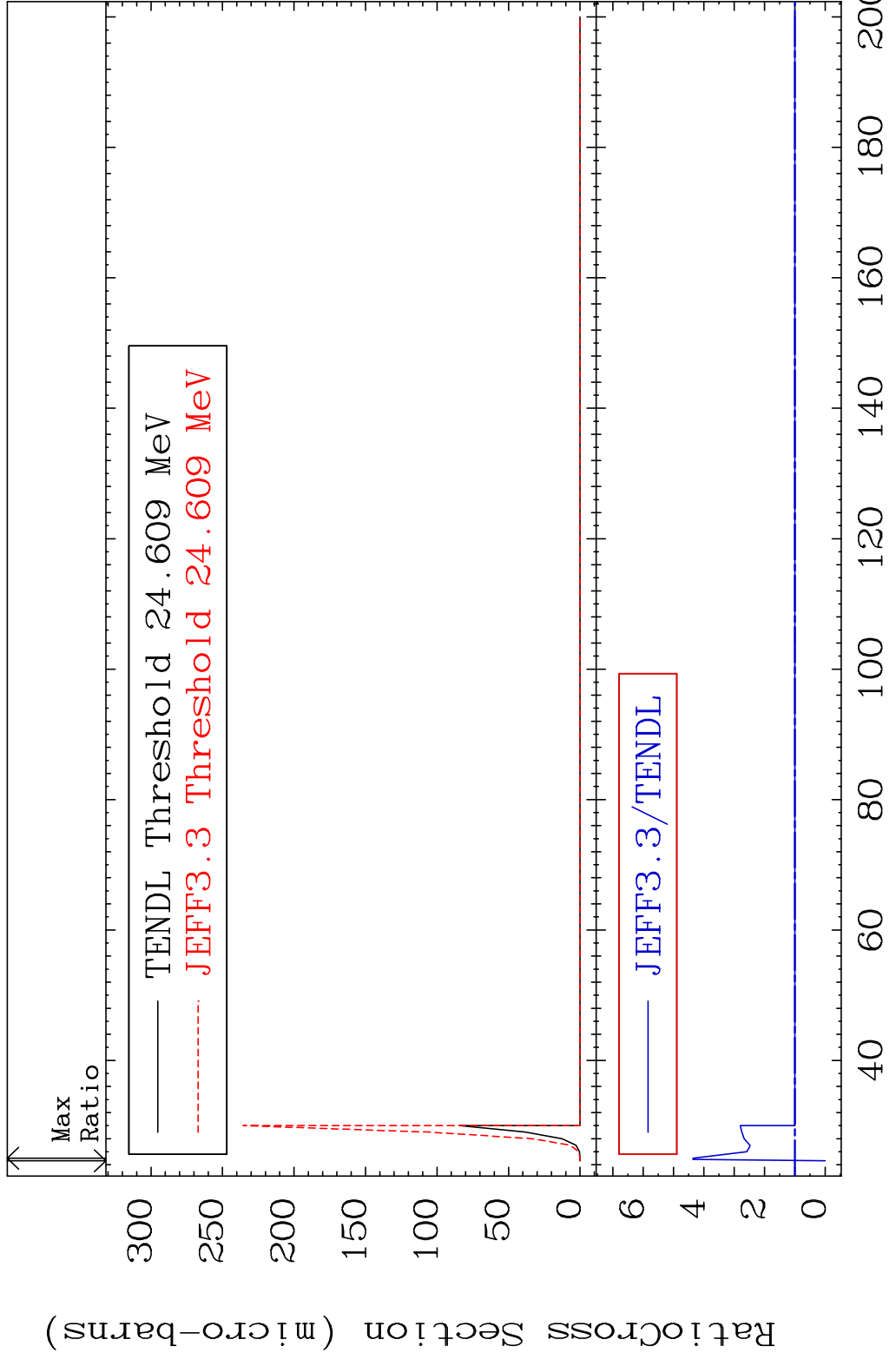


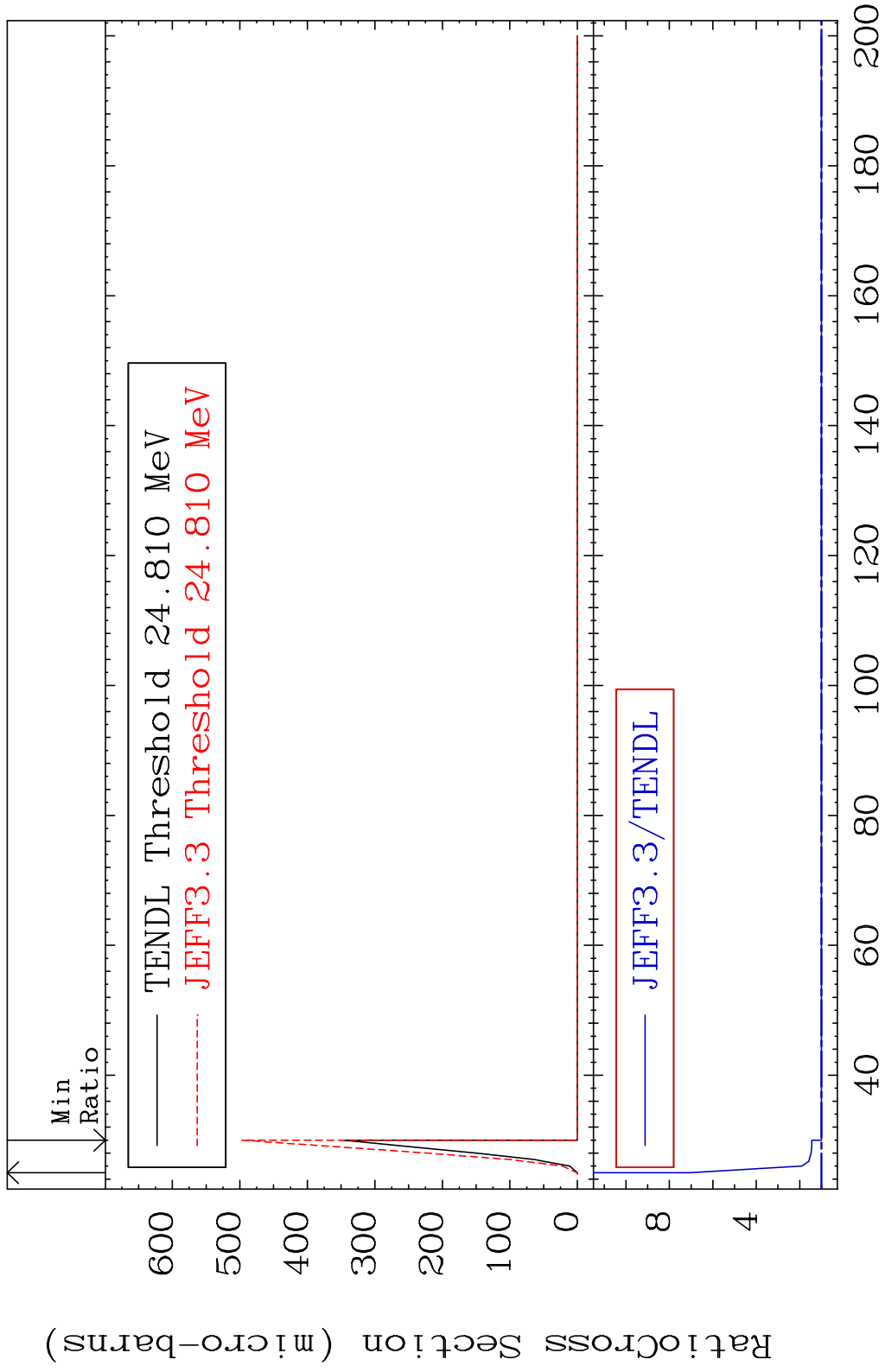
MAT 2716 Dpa disappearance (mt102 -120) 27-Co-56
 Cross Section -84.44 To 430.8 %



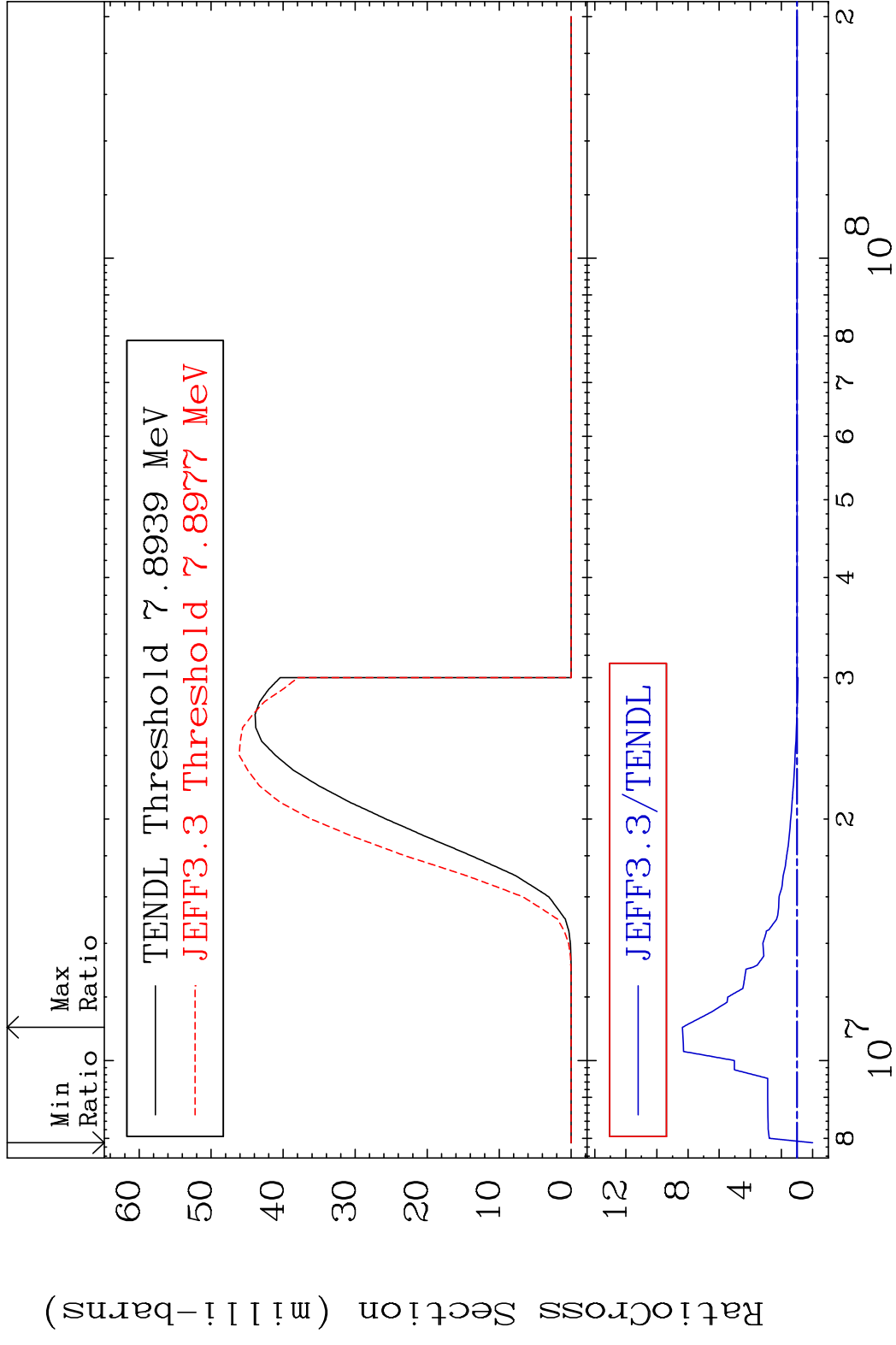
76 Incident Energy (eV) 27-Co-56

MAT 2716 (n,3n):27-Co-54g 27-Co-56
 Radionuclide Production Cross Section Ratio 335.8 %

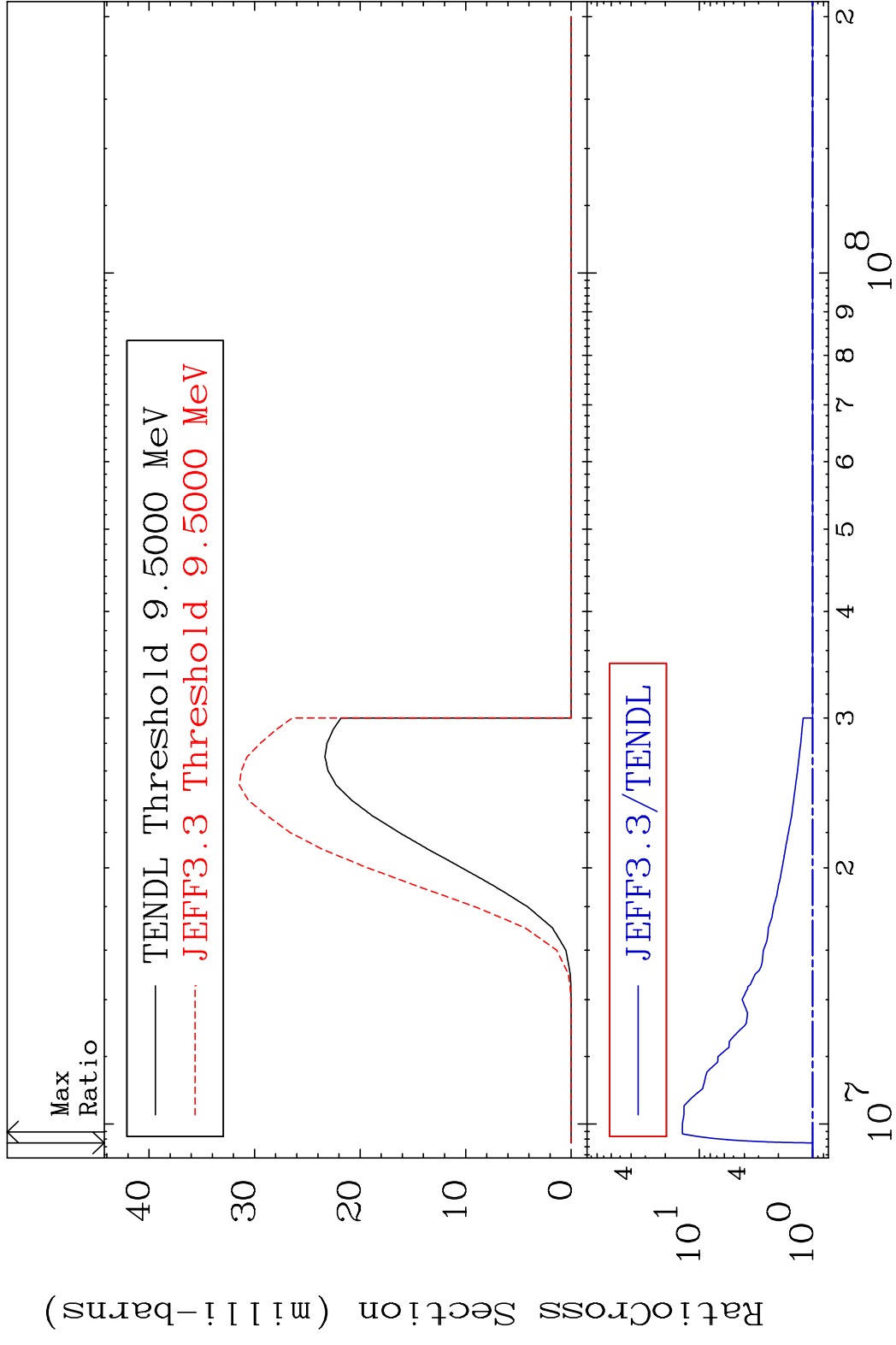




MAT 2716 (n, n') α :25-Mn-52g 27-Co-56
 Radionuclide Production Cross Section 1800 dth 736.8 %



MAT 2716 (n, n') α :25-Mn-52m1 27-Co-56
 Radionuclide Production Cross Section 1312. %



80 27-Co-56