

Program Complot
(Version 2021-1)

by

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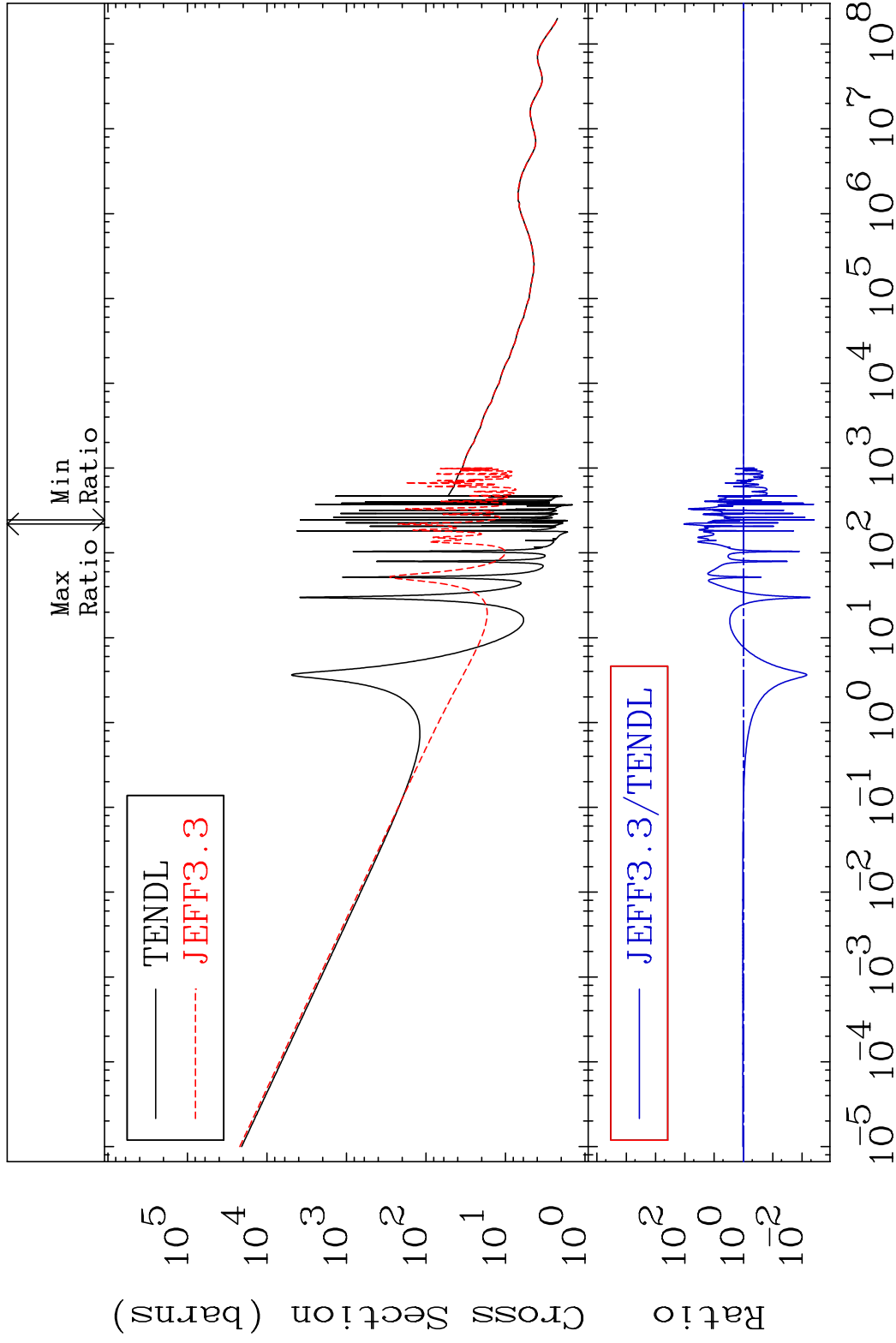
Press Mouse Button to Start

MAT 5834

Total

58-Ce-139

Cross Section -99.61 To 9999. %



1

Incident Energy (eV)

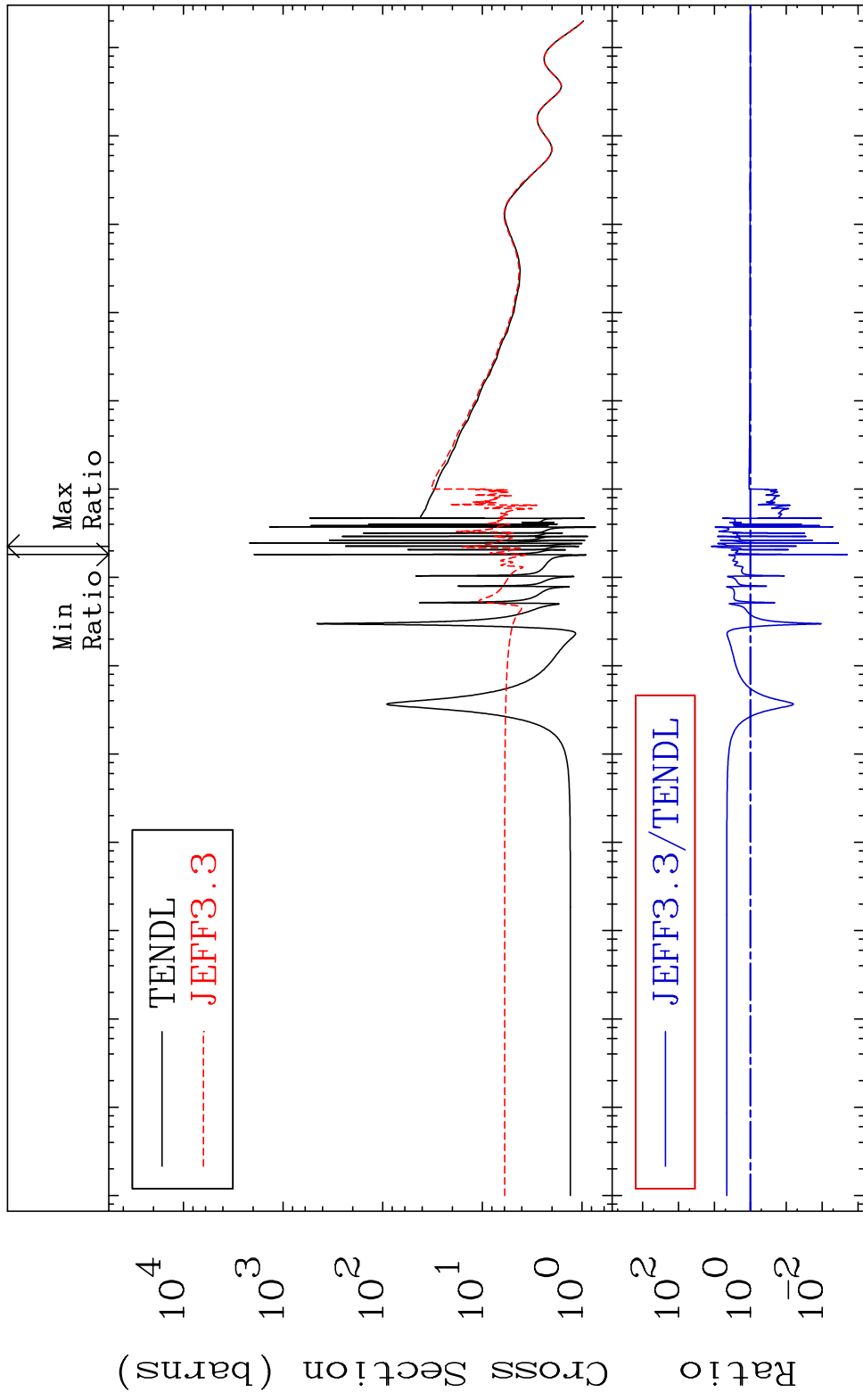
58-Ce-139

MAT 5834

Elastic

58-Ce-139

Cross Section -99.80 To 1110. %



2

Incident Energy (eV)

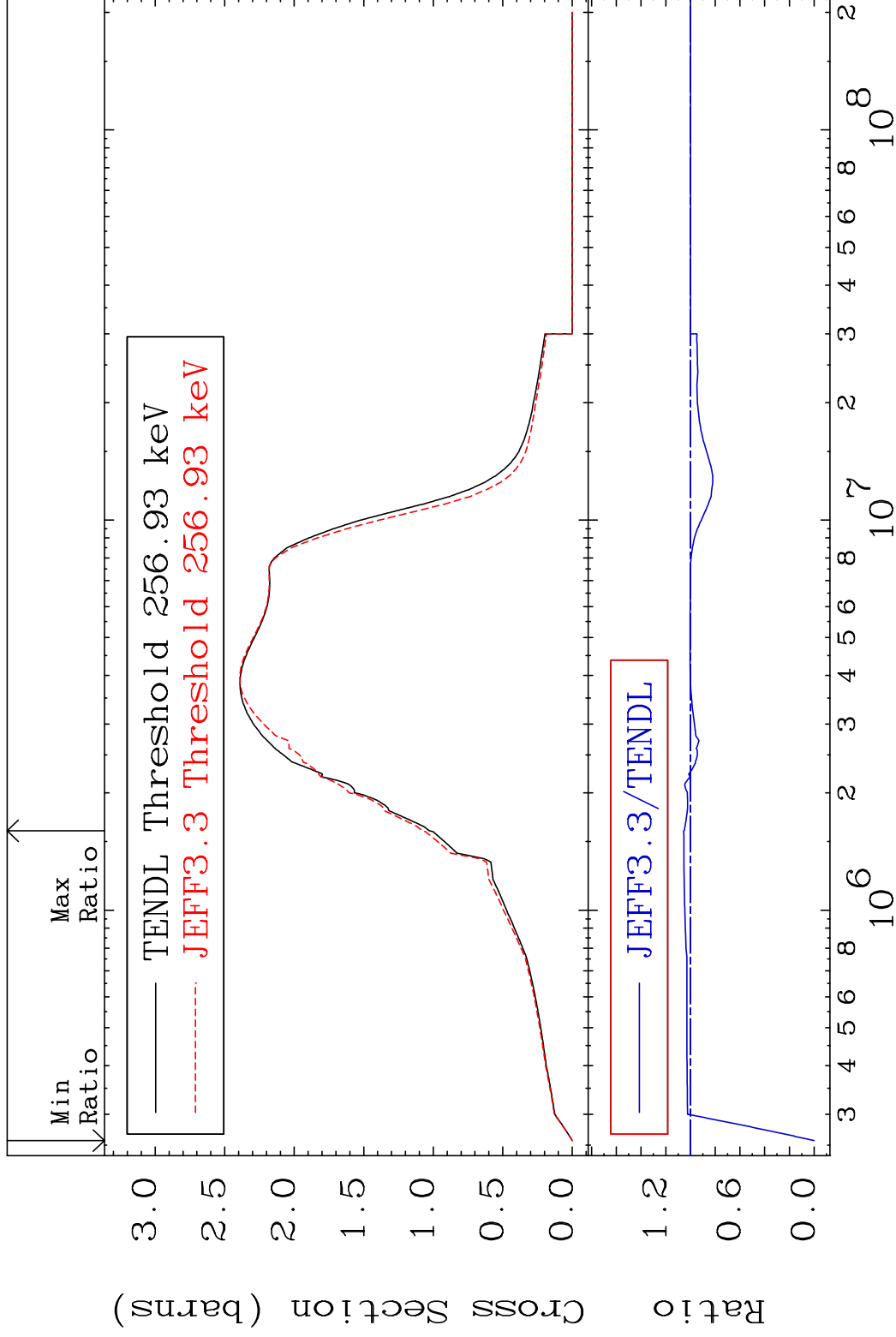
58-Ce-139

MAT 5834

Inelastic

58-Ce-139

Cross Section -100.0 To 5.523 %

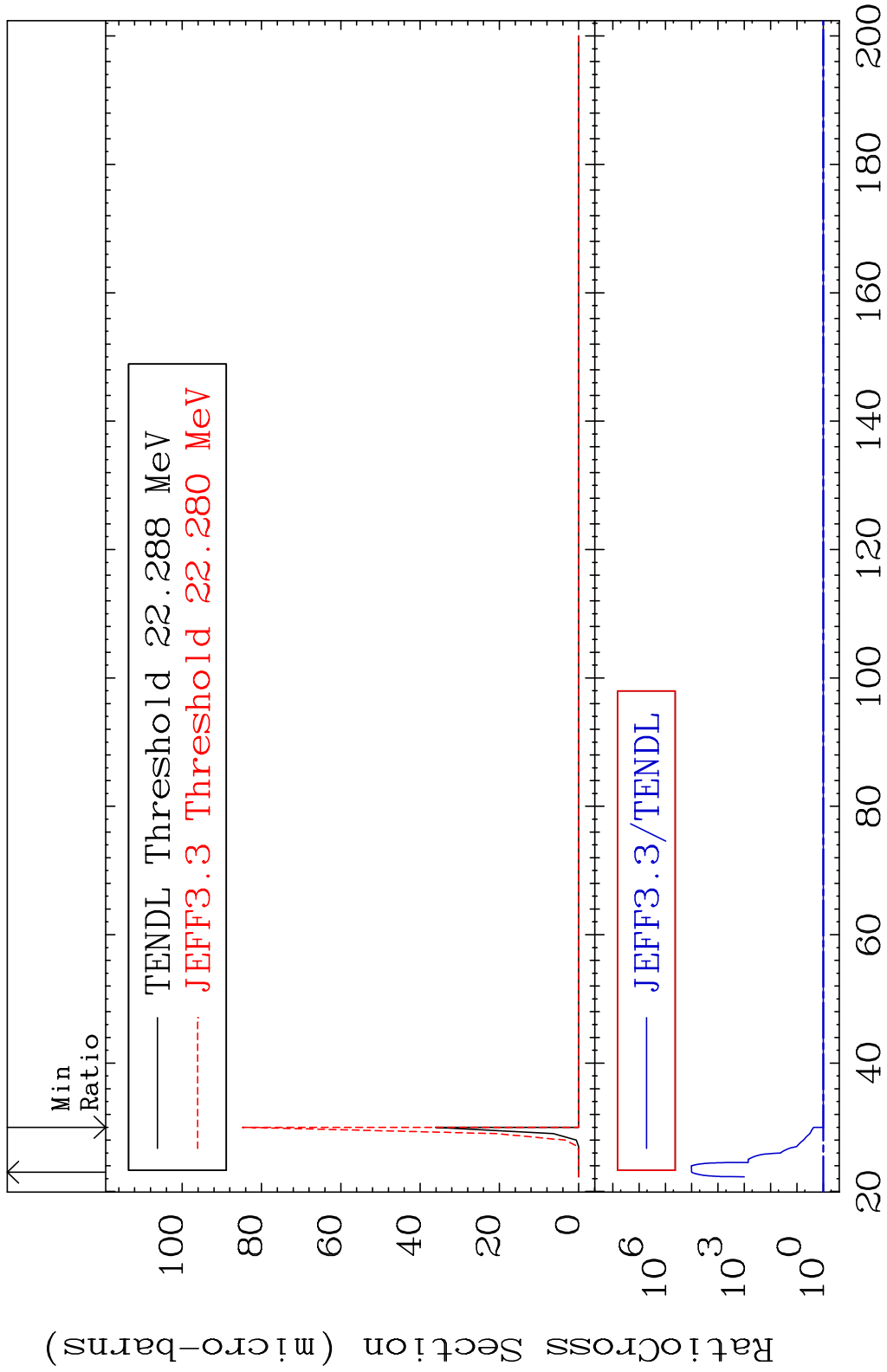


3

Incident Energy (eV)

58-Ce-139

MAT 5834 (n,2n) d 58-Ce-139
 Cross Section 0.000 To 9999. %

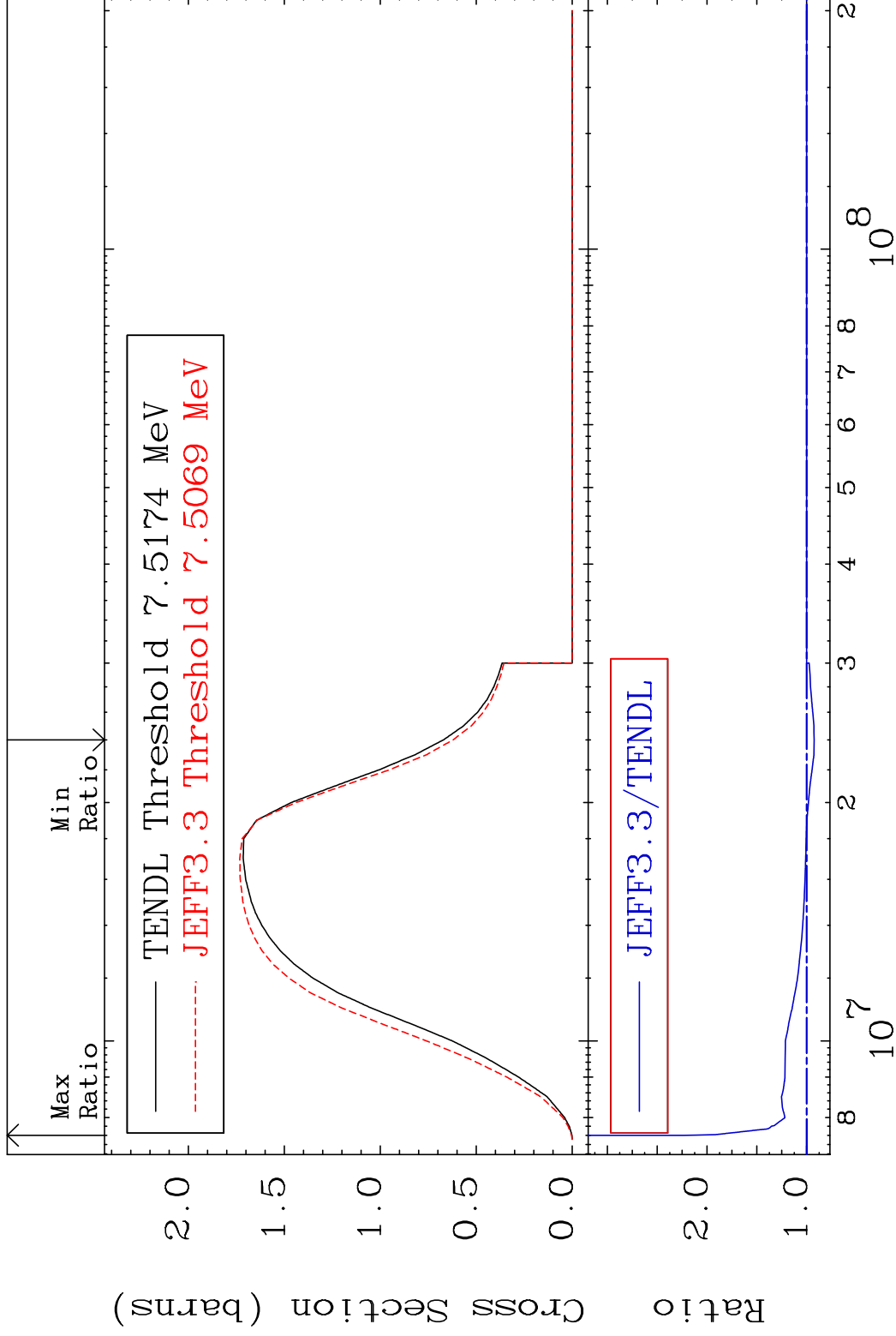


MAT 5834

(n,2n)

58-Ce-139

Cross Section -7.416 To 123.5 %



5

Incident Energy (eV)

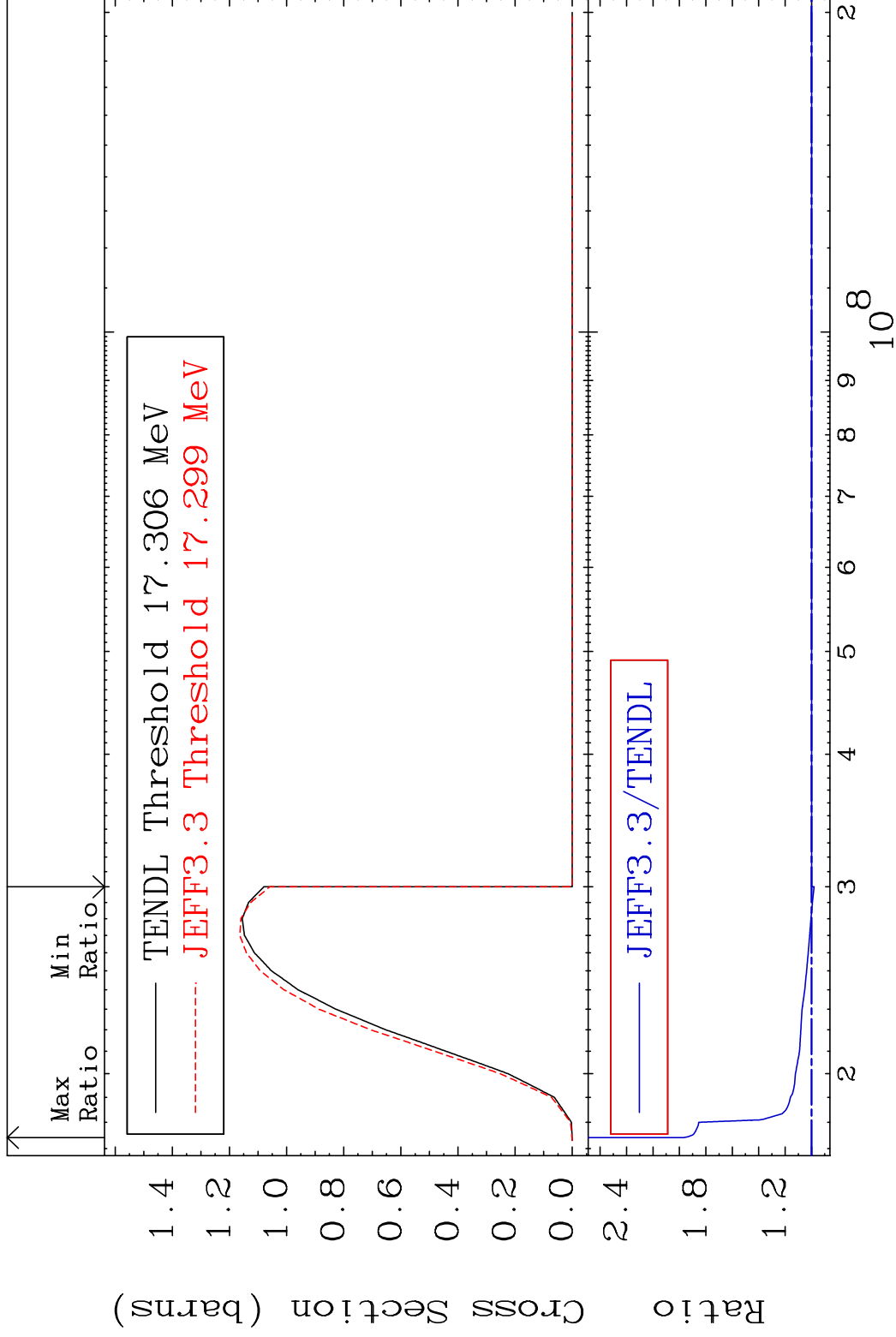
58-Ce-139

MAT 5834

(n,3n)

58-Ce-139

Cross Section -1.945 To 96.79 %



6

Incident Energy (eV)

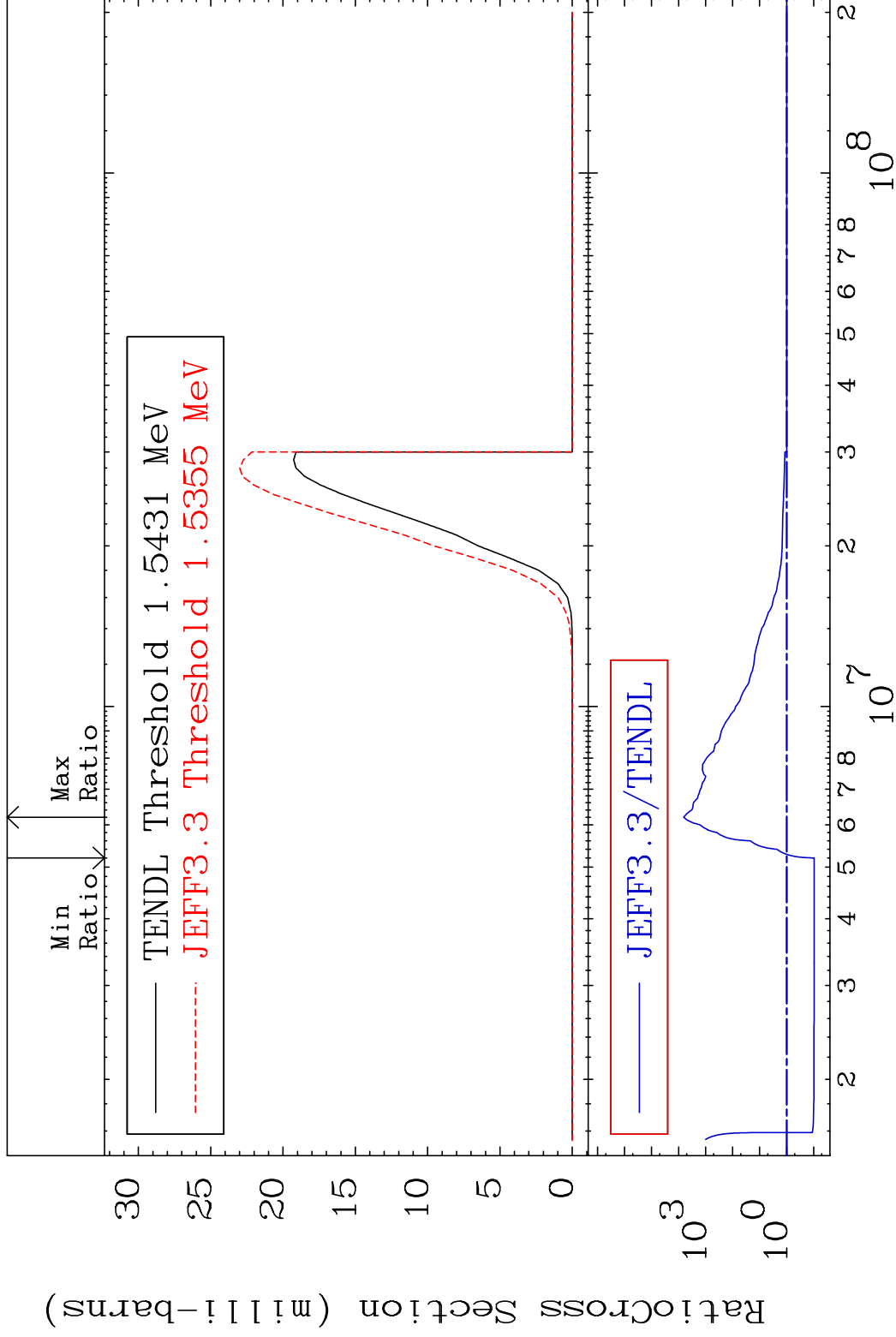
58-Ce-139

MAT 5834

(n, n') α

58-Ce-139

Cross Section -90.38 To 9999. %



7

Incident Energy (eV)

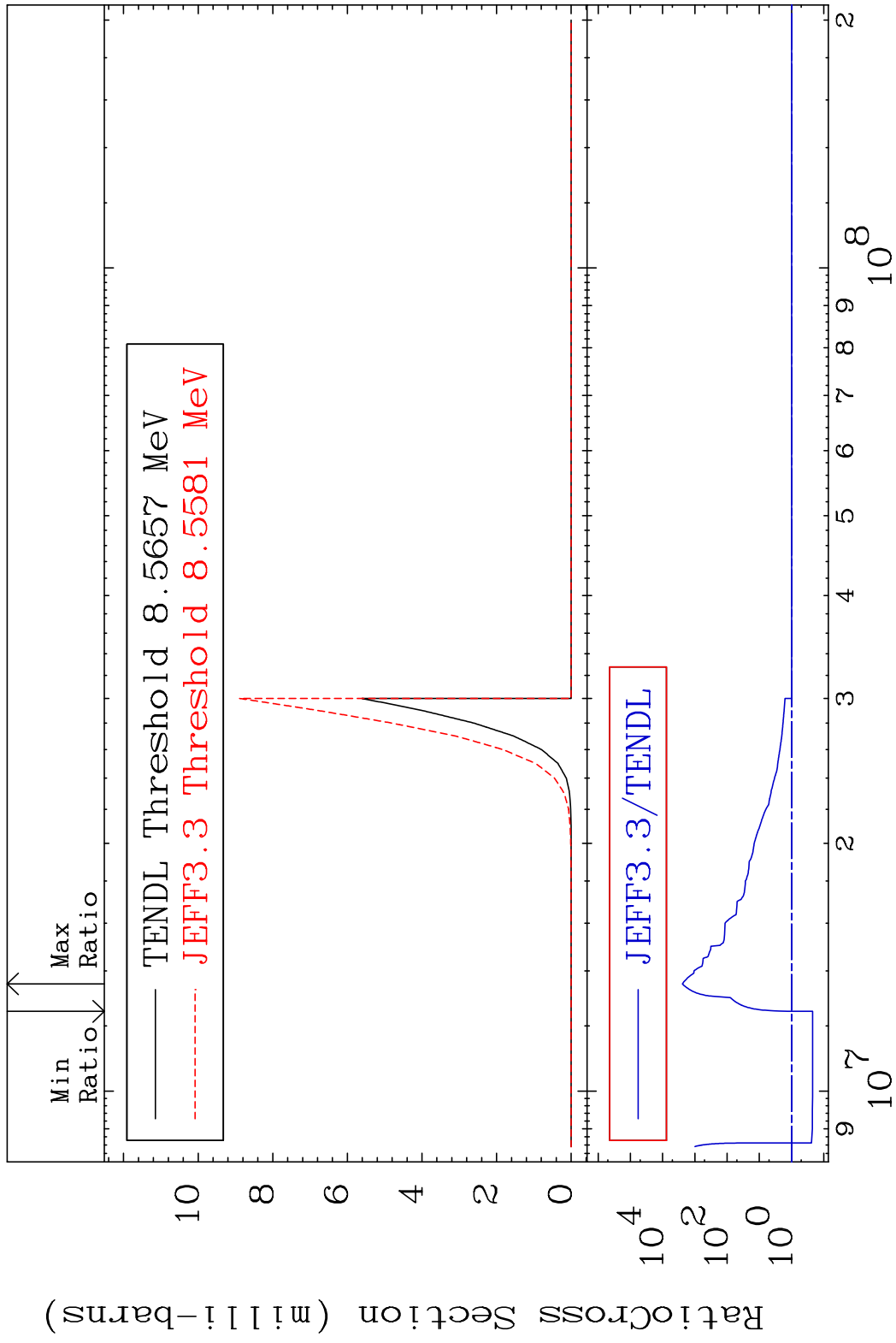
58-Ce-139

MAT 5834

(n,2n) α

58-Ce-139

Cross Section -77.69 To 9999. %



8

Incident Energy (eV)

58-Ce-139

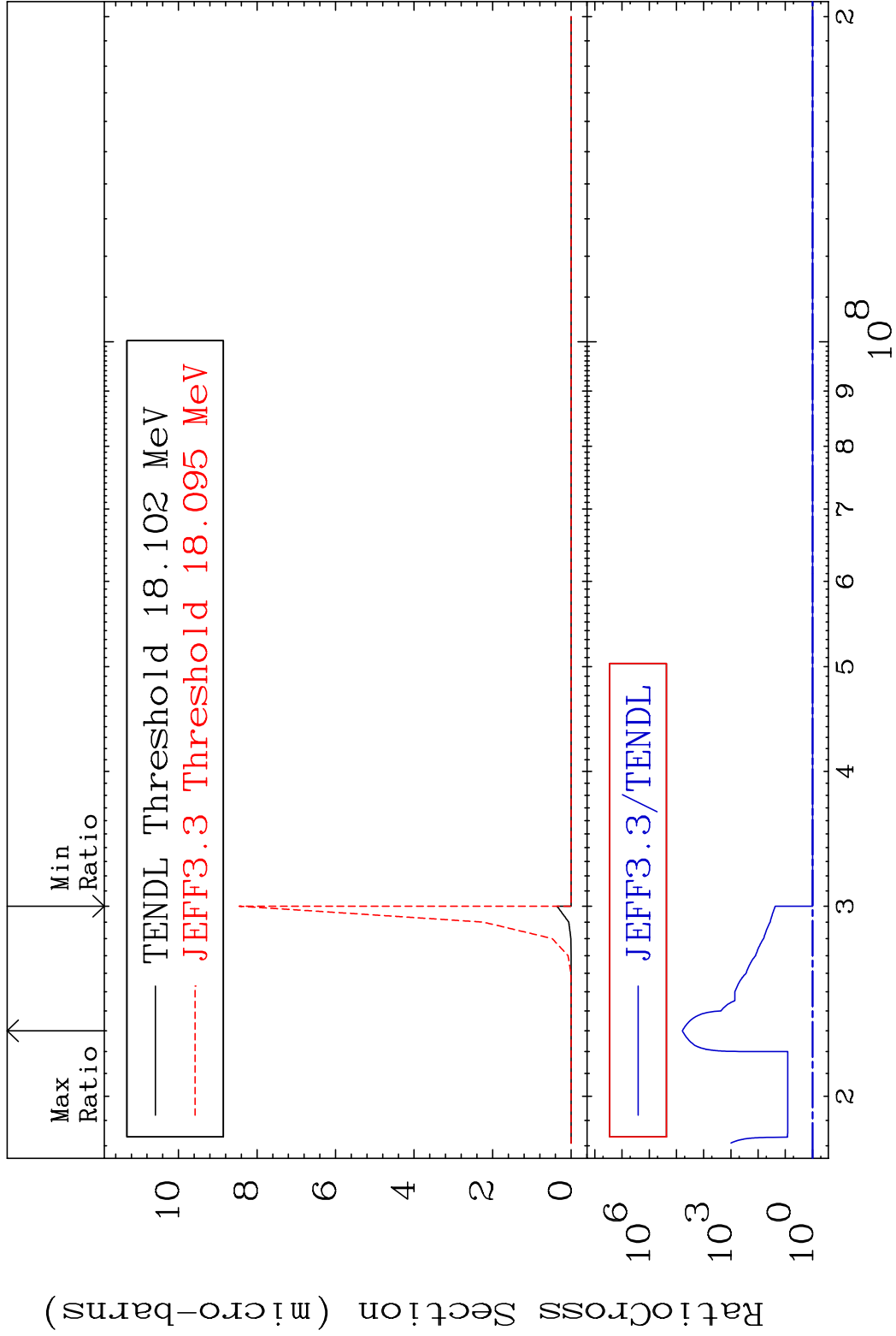
MAT 5834

(n,3n) α

58-Ce-139

Cross Section 0.000

To 9999. %

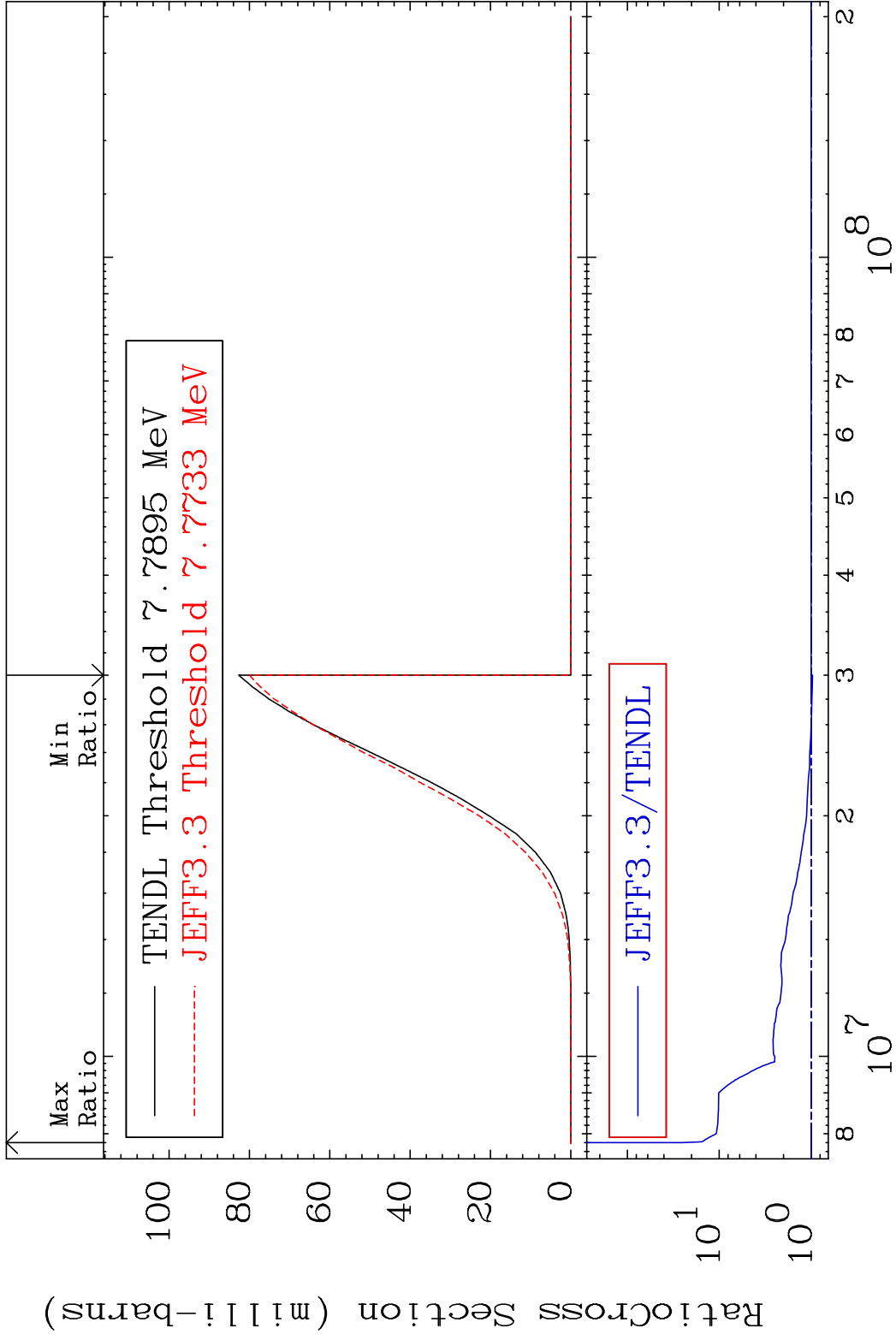


MAT 5834

(n, n') p

58-Ce-139

Cross Section -3.188 To 2434. %



10

Incident Energy (eV)

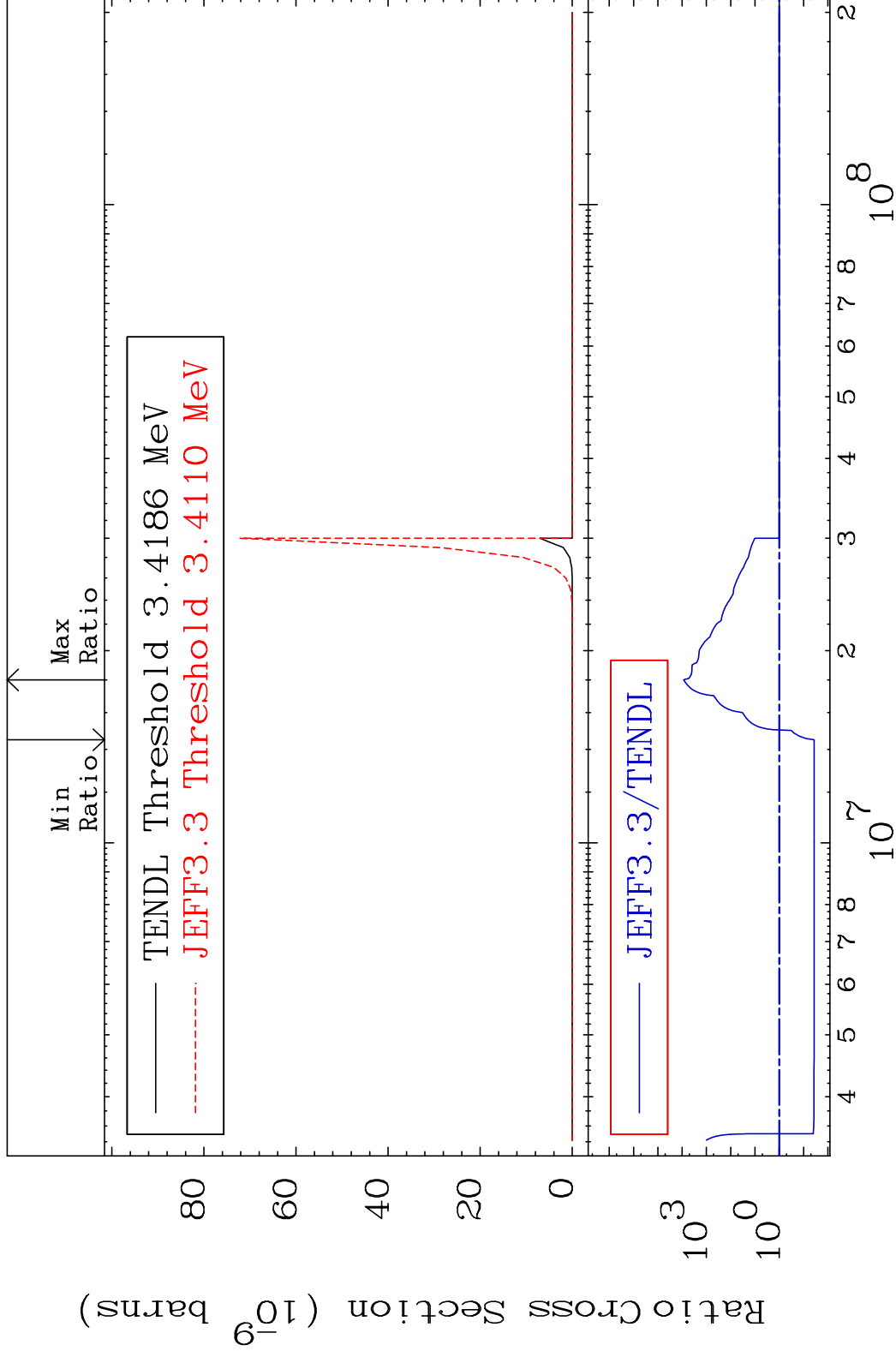
58-Ce-139

MAT 5834

(n, n') 2α

58-Ce-139

Cross Section -96.32 To 9999. %

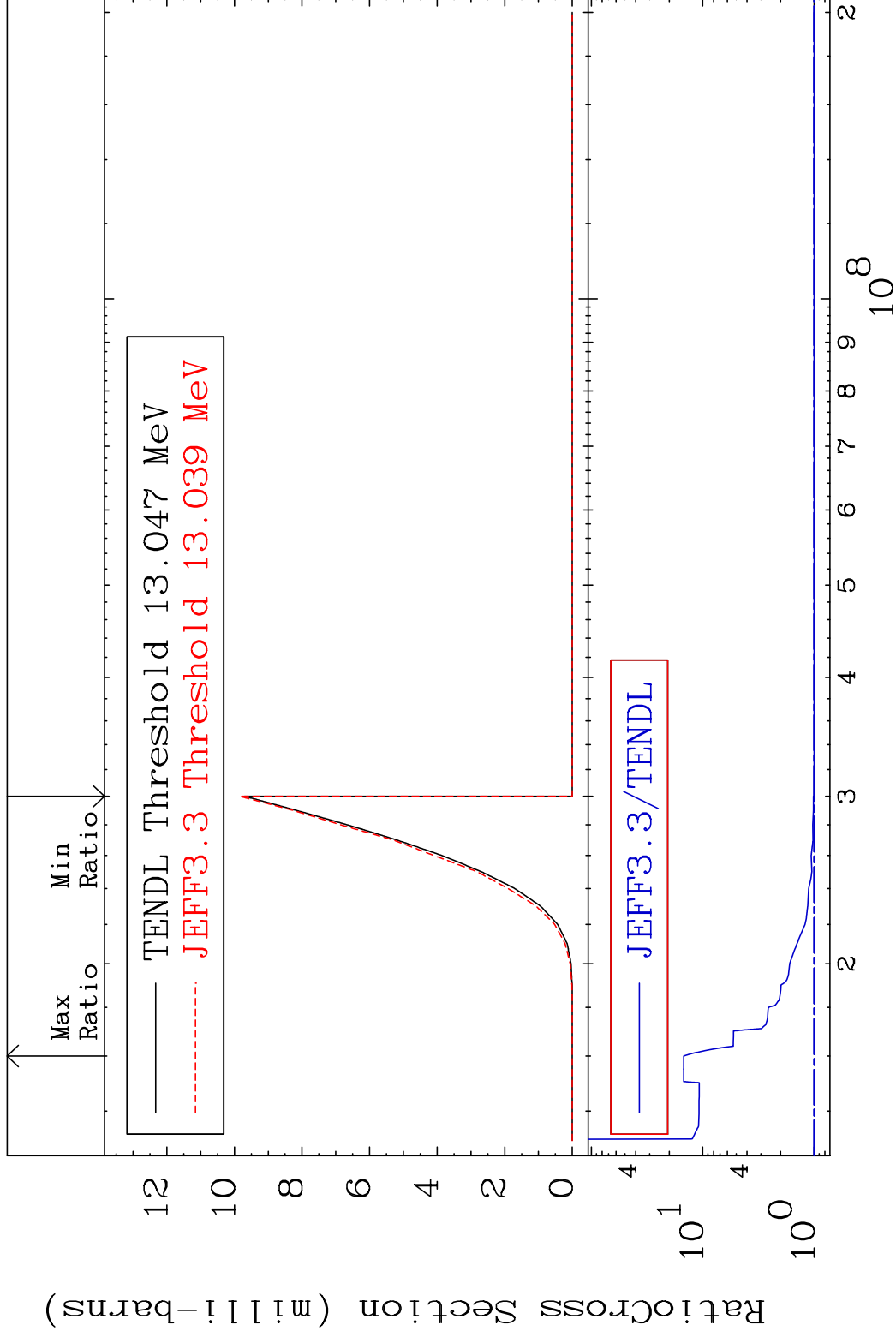


MAT 5834

(n, n') d

58-Ce-139

Cross Section 0.000 To 1384. %



12

Incident Energy (eV)

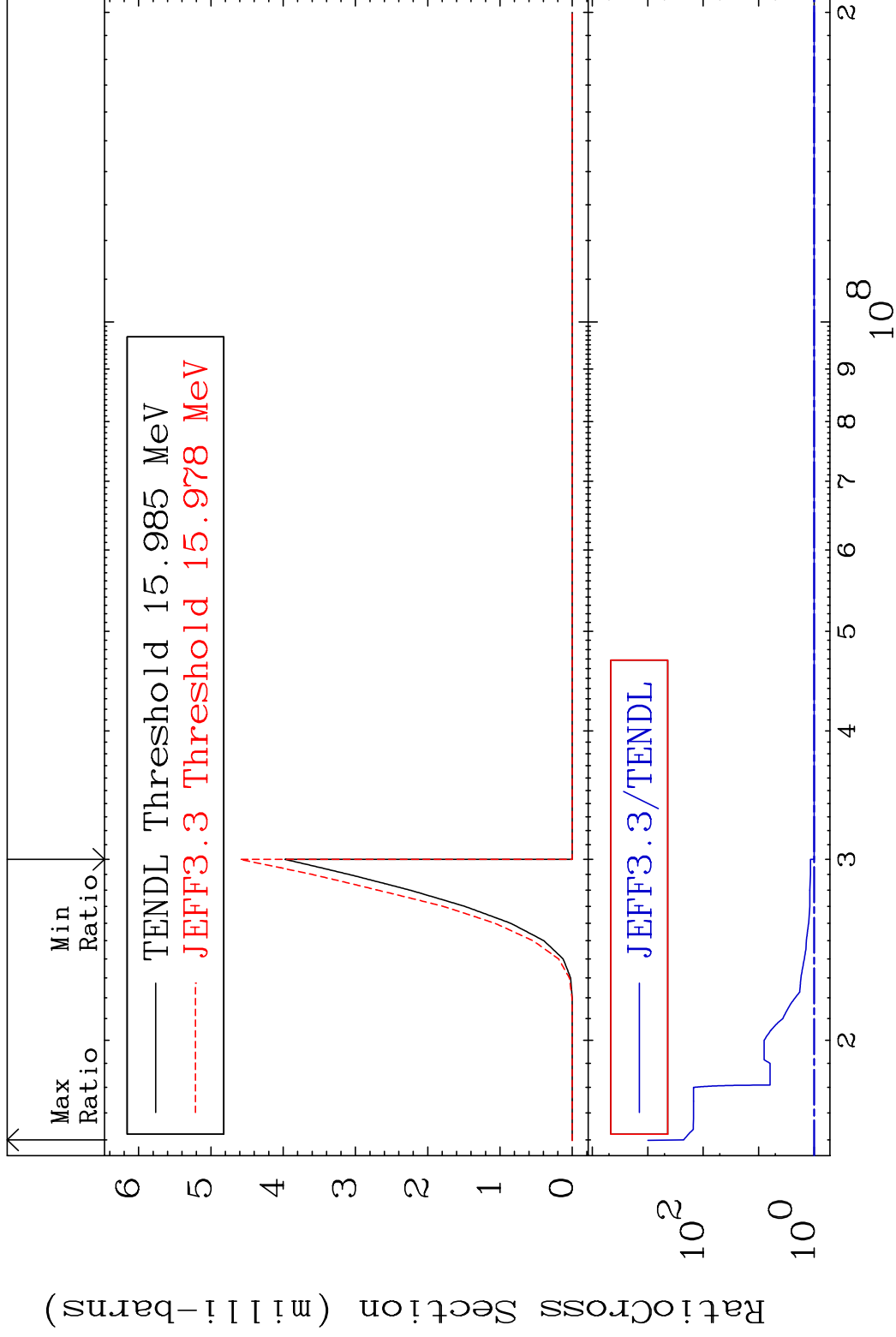
58-Ce-139

MAT 5834

(n, n') t

58-Ce-139

Cross Section 0.000 To 9999. %



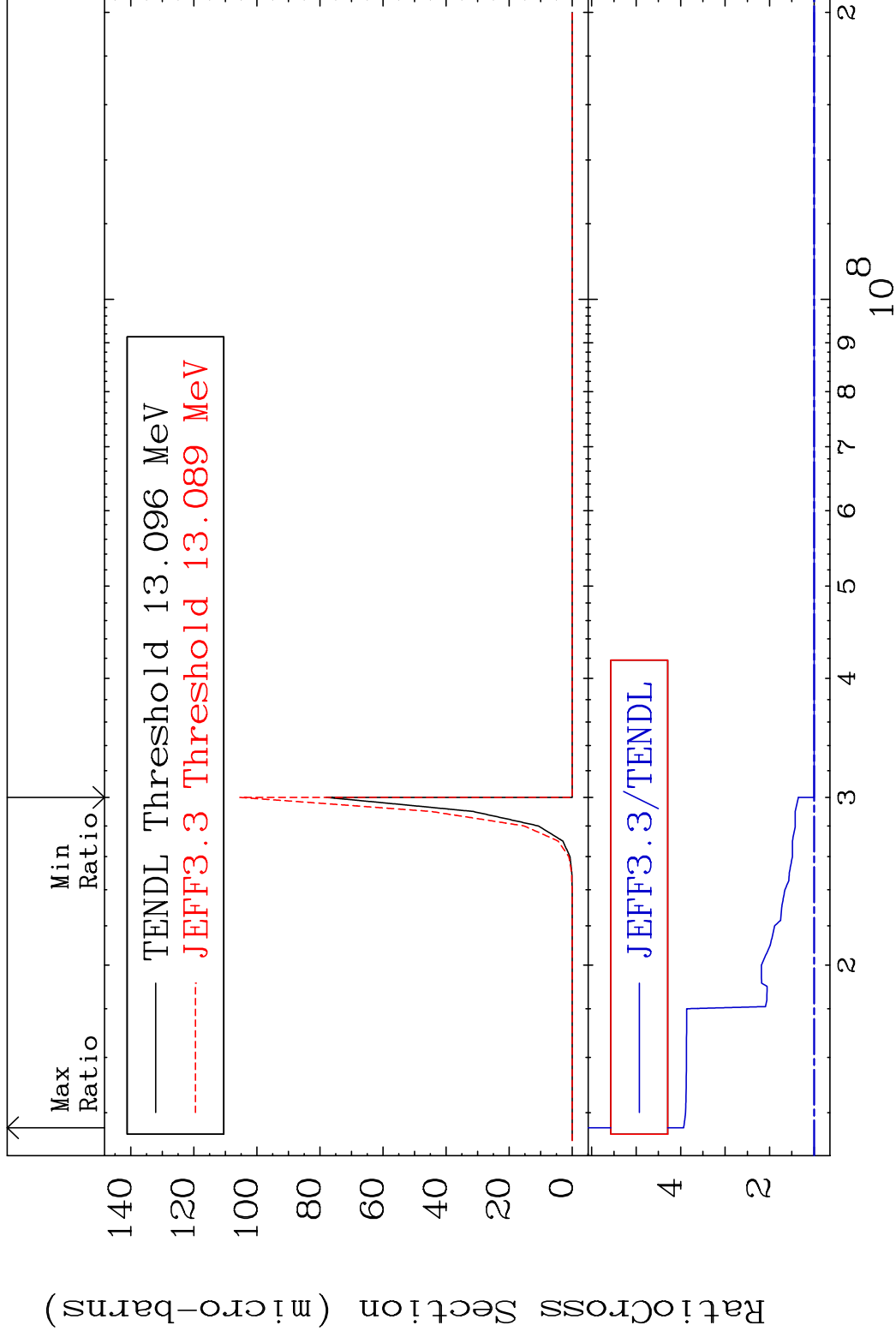
MAT 5834

(n,n') He-3

58-Ce-139

Cross Section 0.000

To 293.3 %

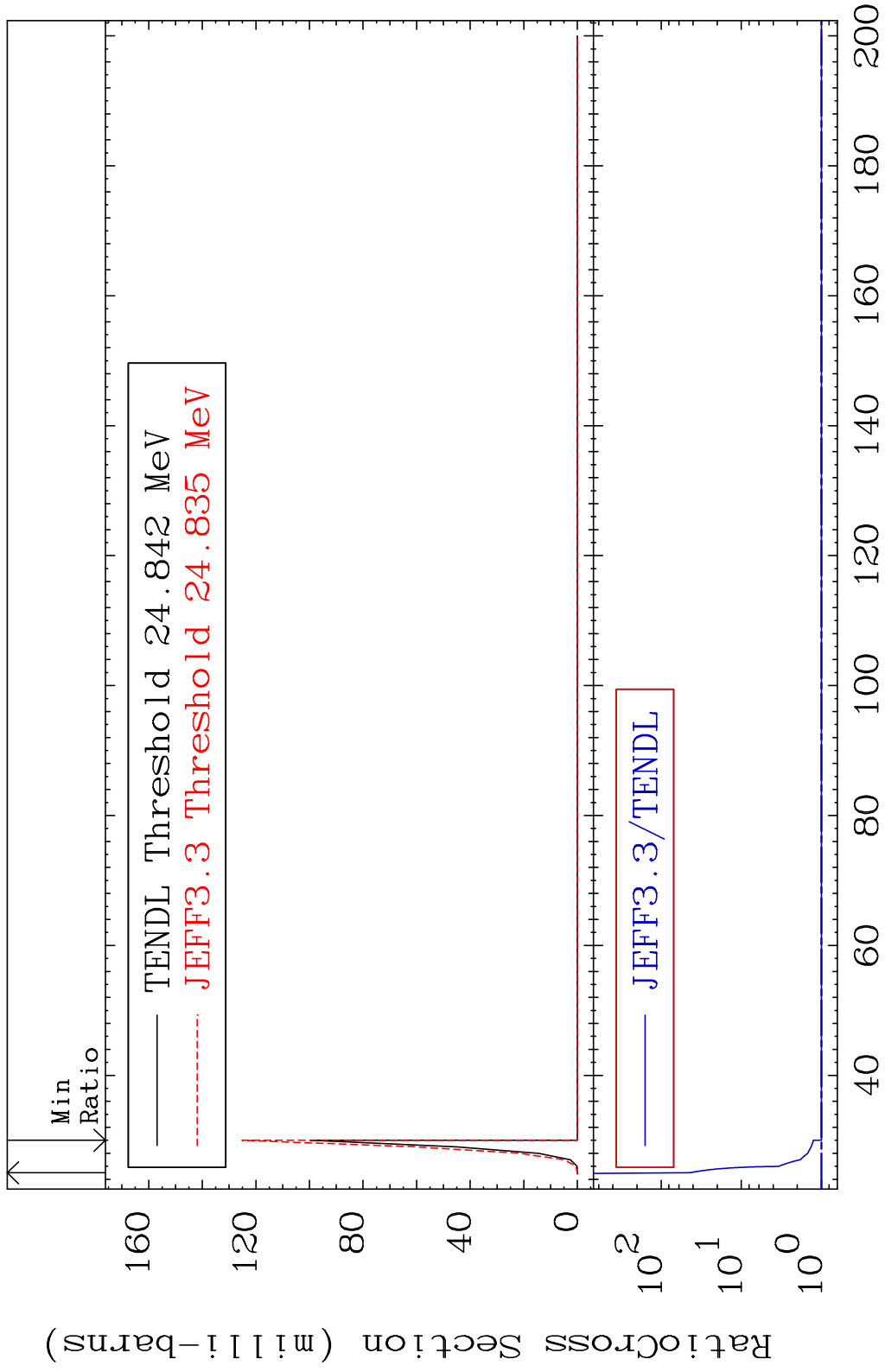


MAT 5834

(n,4n)

58-Ce-139

Cross Section 0.000 To 4294. %

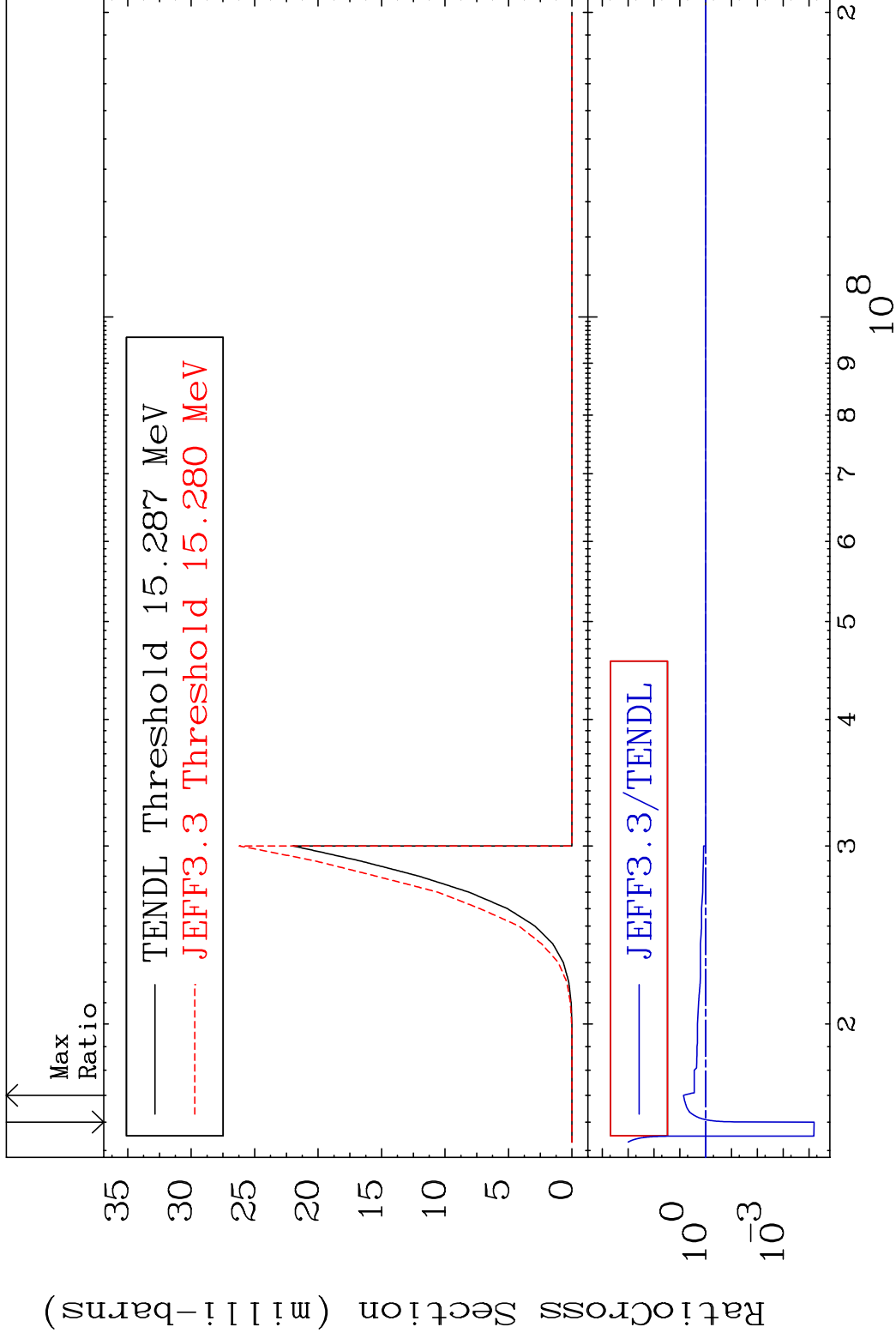


MAT 5834

(n,2n) p

58-Ce-139

Cross Section -99.99 To 621.2 %

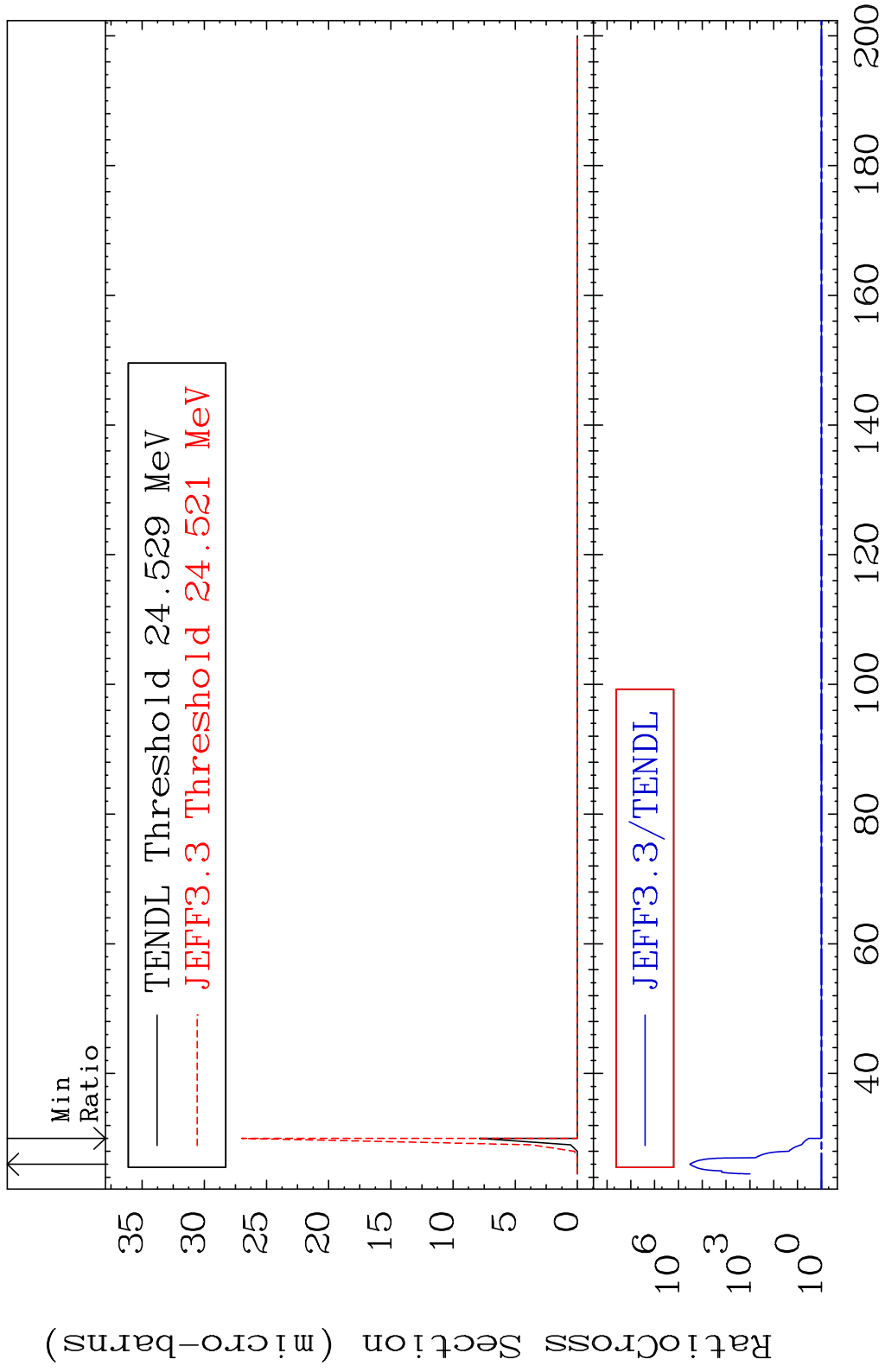


16

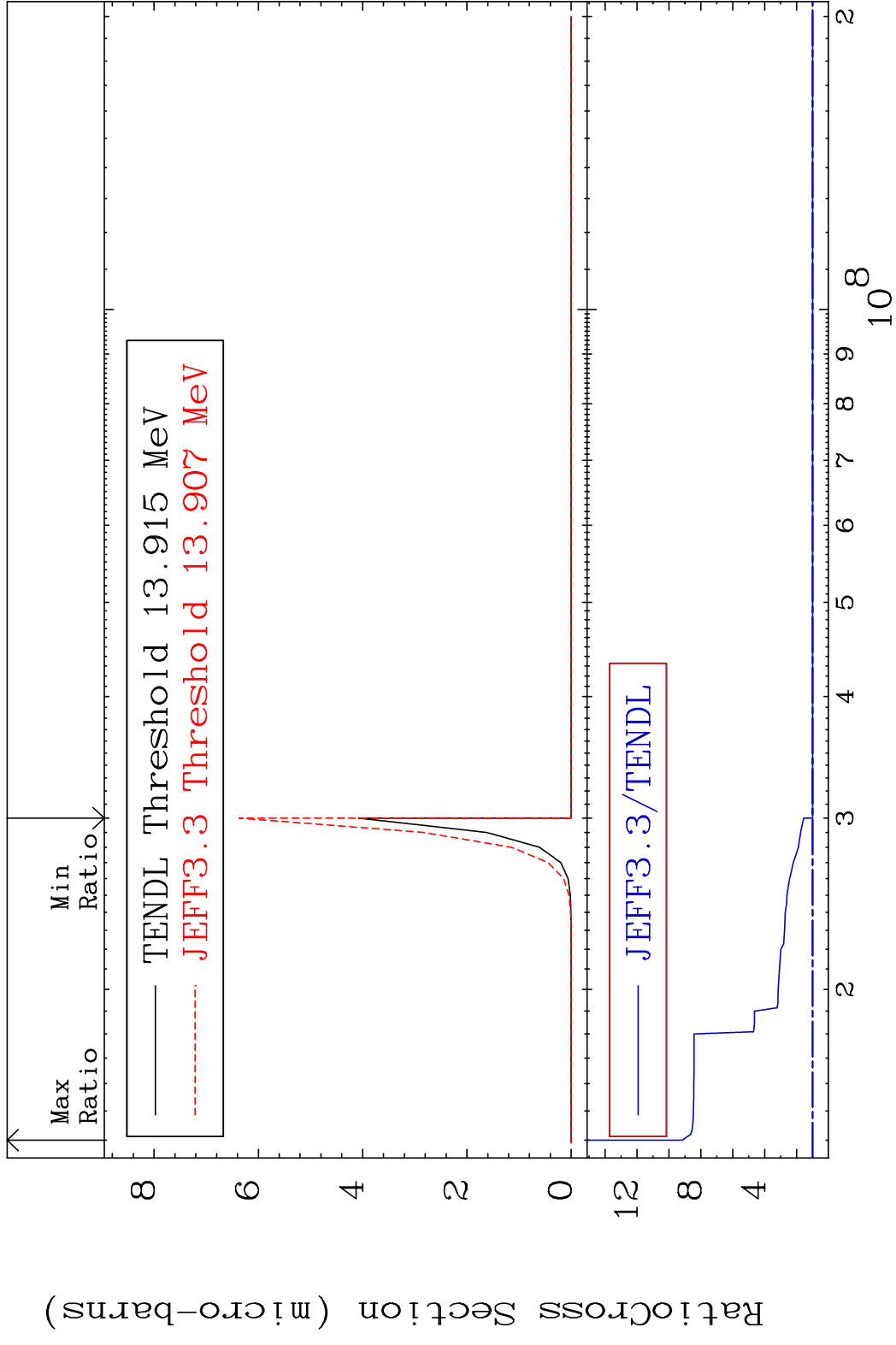
Incident Energy (eV)

58-Ce-139

MAT 5834 (n,3n) p 58-Ce-139
 Cross Section 0.000 To 9999. %



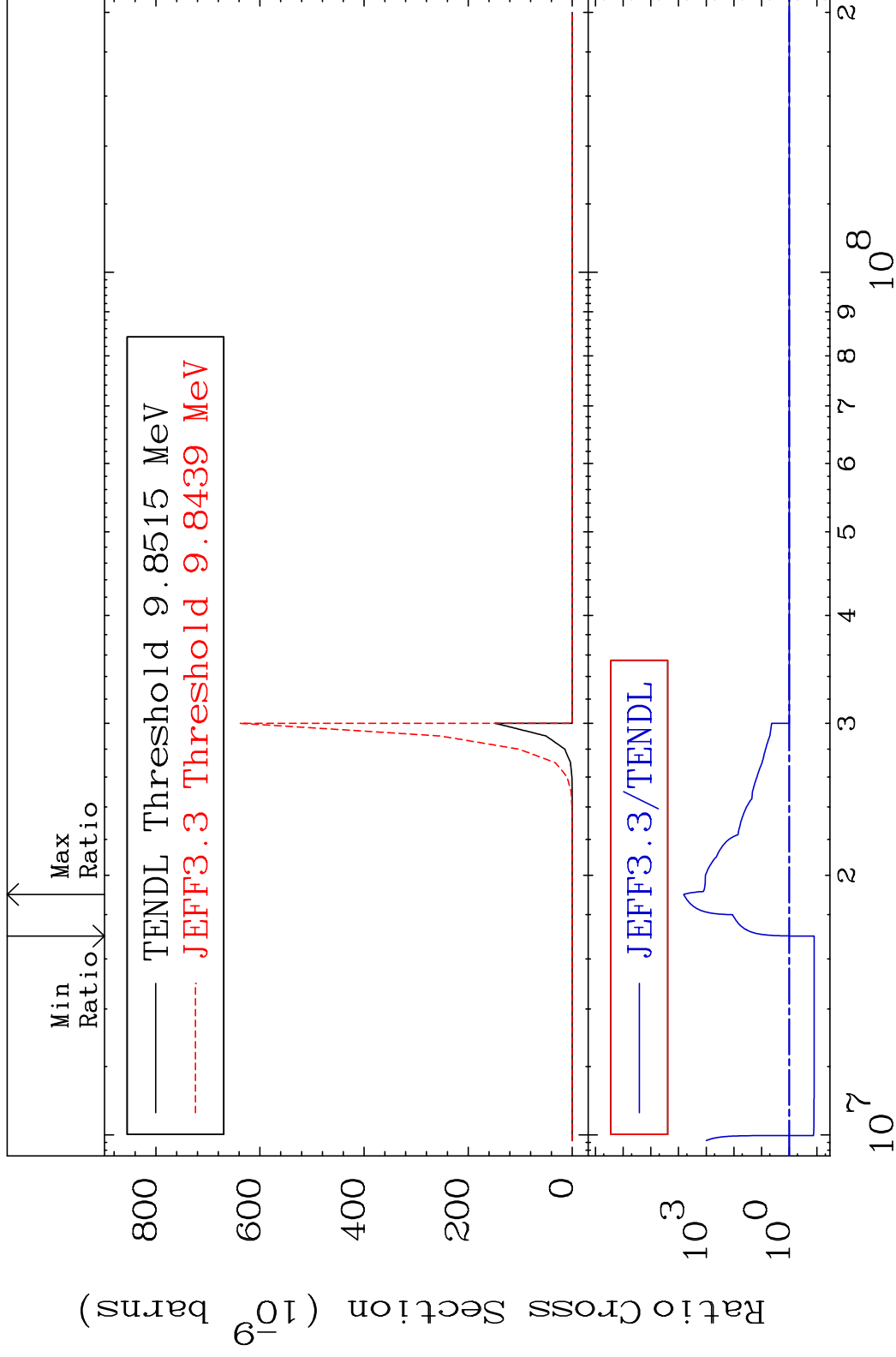
MAT 5834 (n,2n) p 58-Ce-139
 Cross Section 0.000 To 816.2 %



MAT 5834

(n,n') p α 58-Ce-139

Cross Section -87.37 To 9999. %

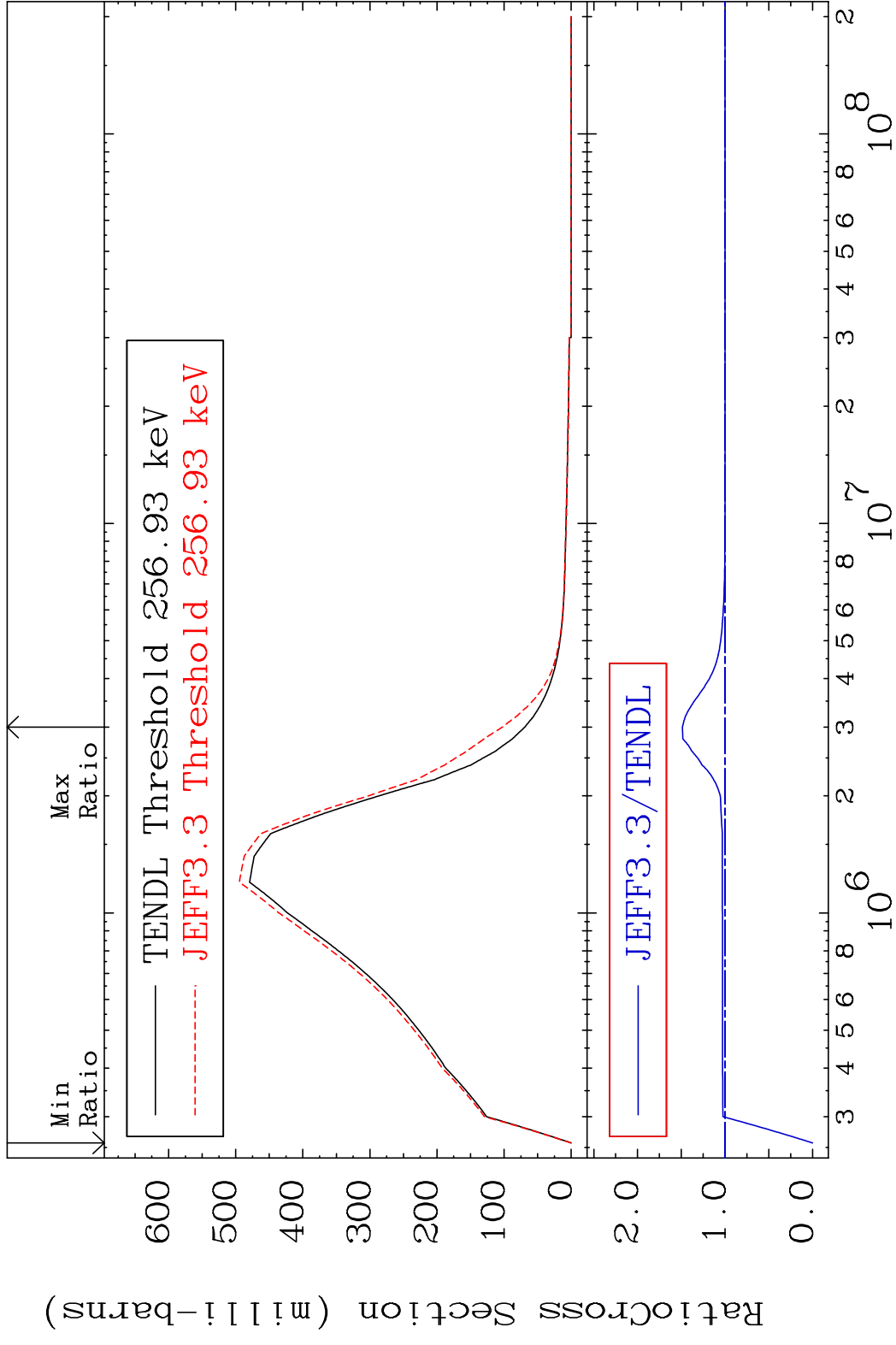


19

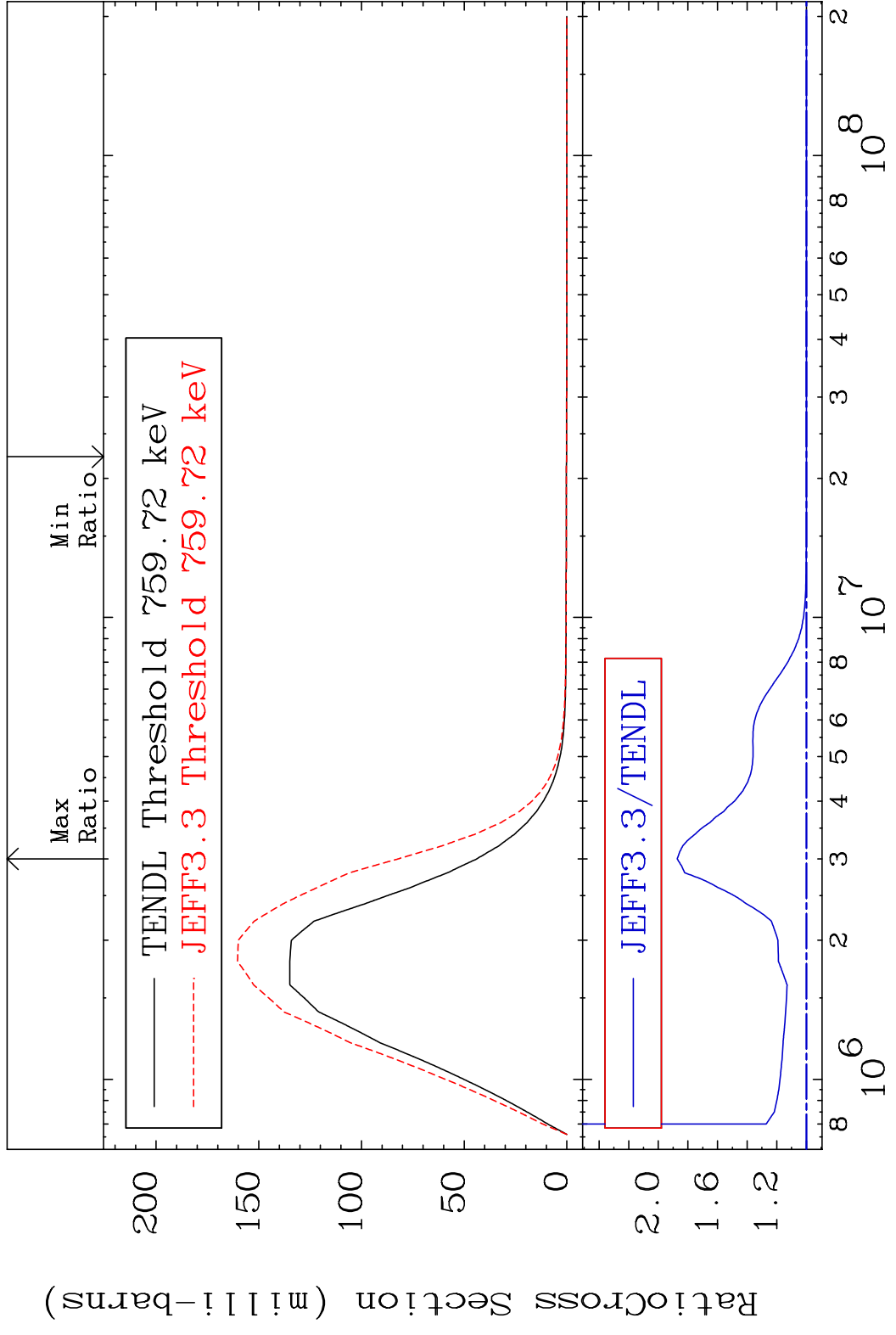
Incident Energy (eV)

58-Ce-139

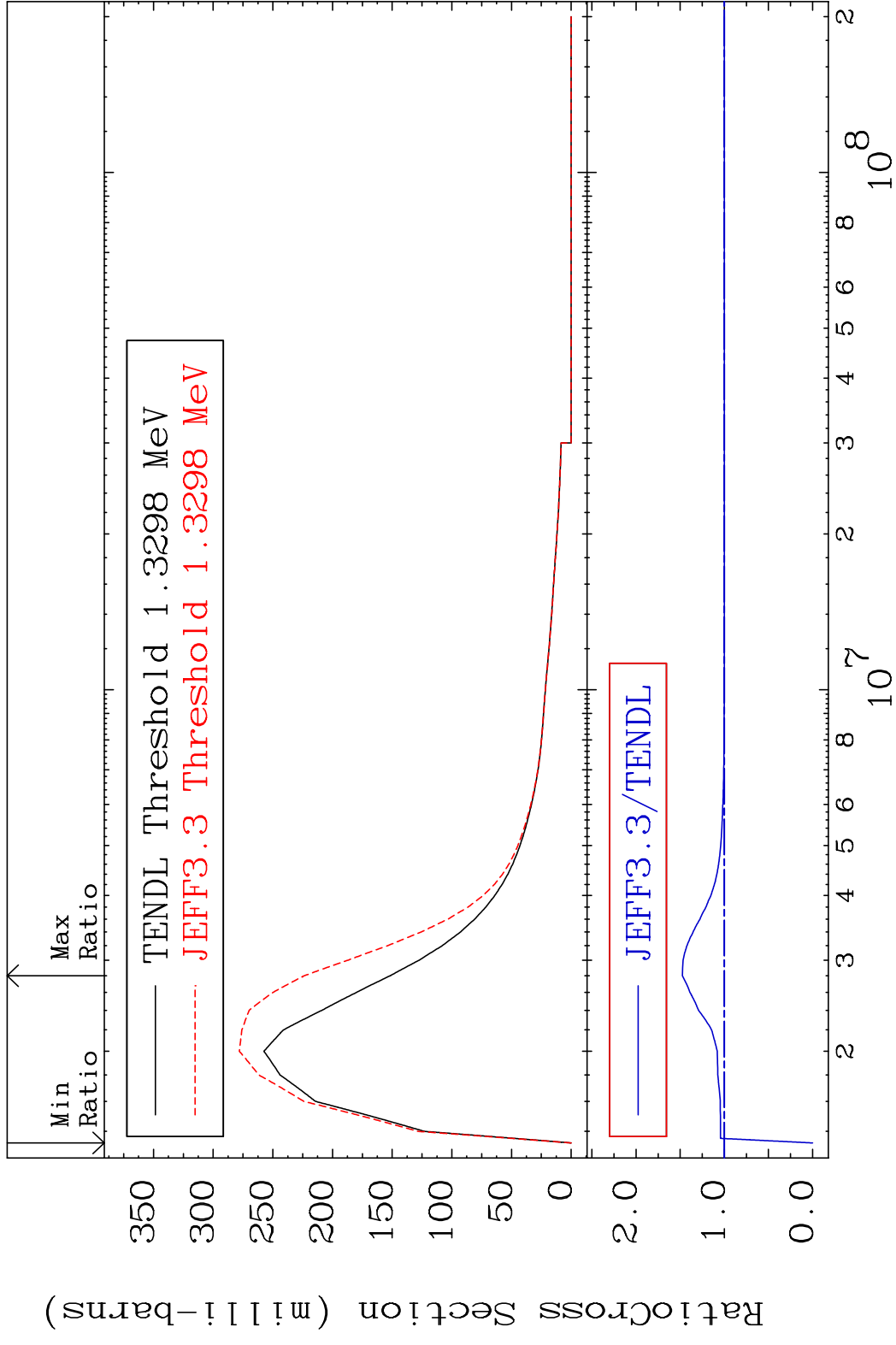
MAT 5834 MT= 51 (n,n') Level 58-Ce-139
 Cross Section -100.0 To 48.80 %



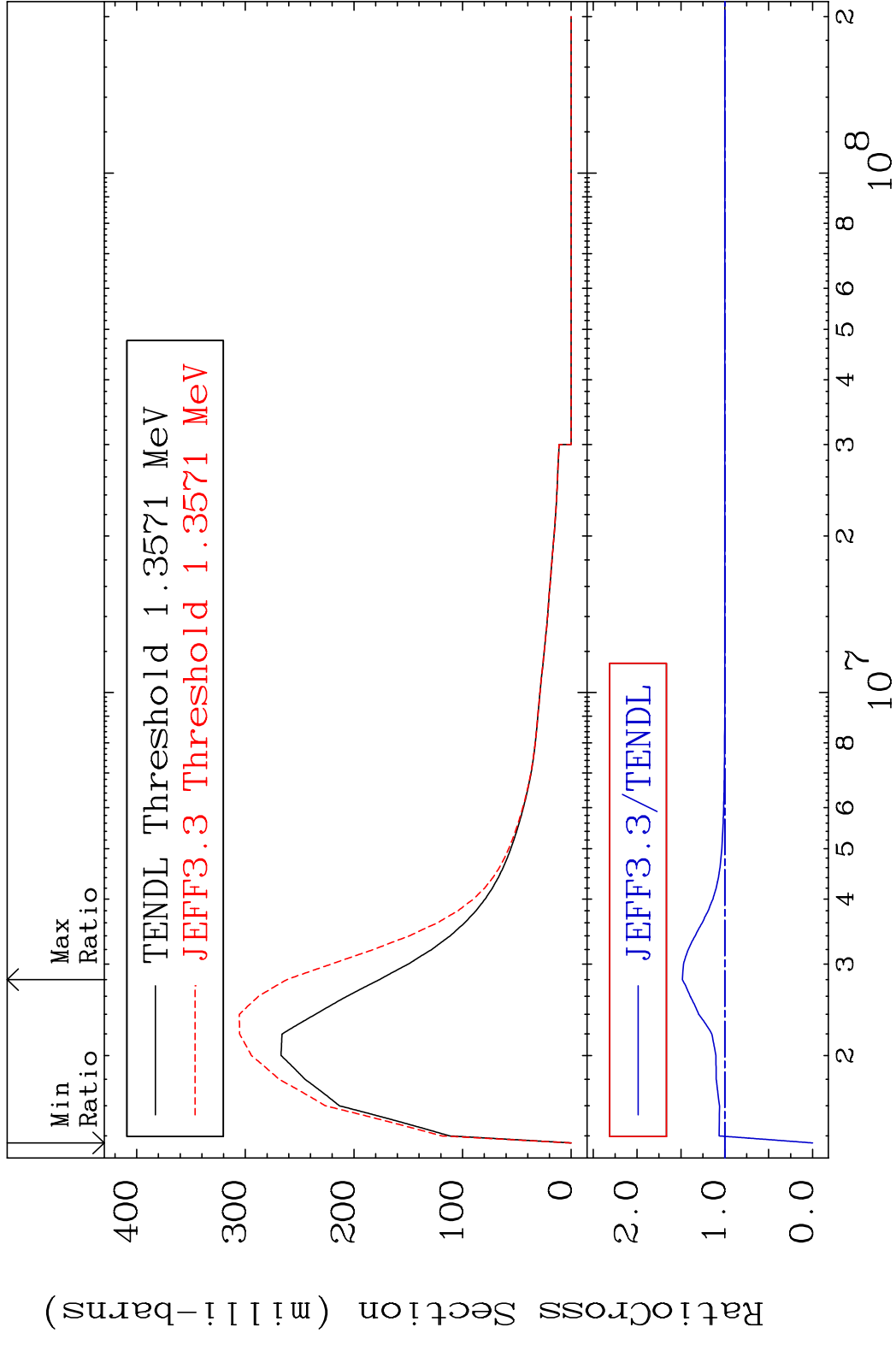
MAT 5834 MT= 52 (n, n') Level 58-Ce-139
 Cross Section 0.000 To 87.25 %



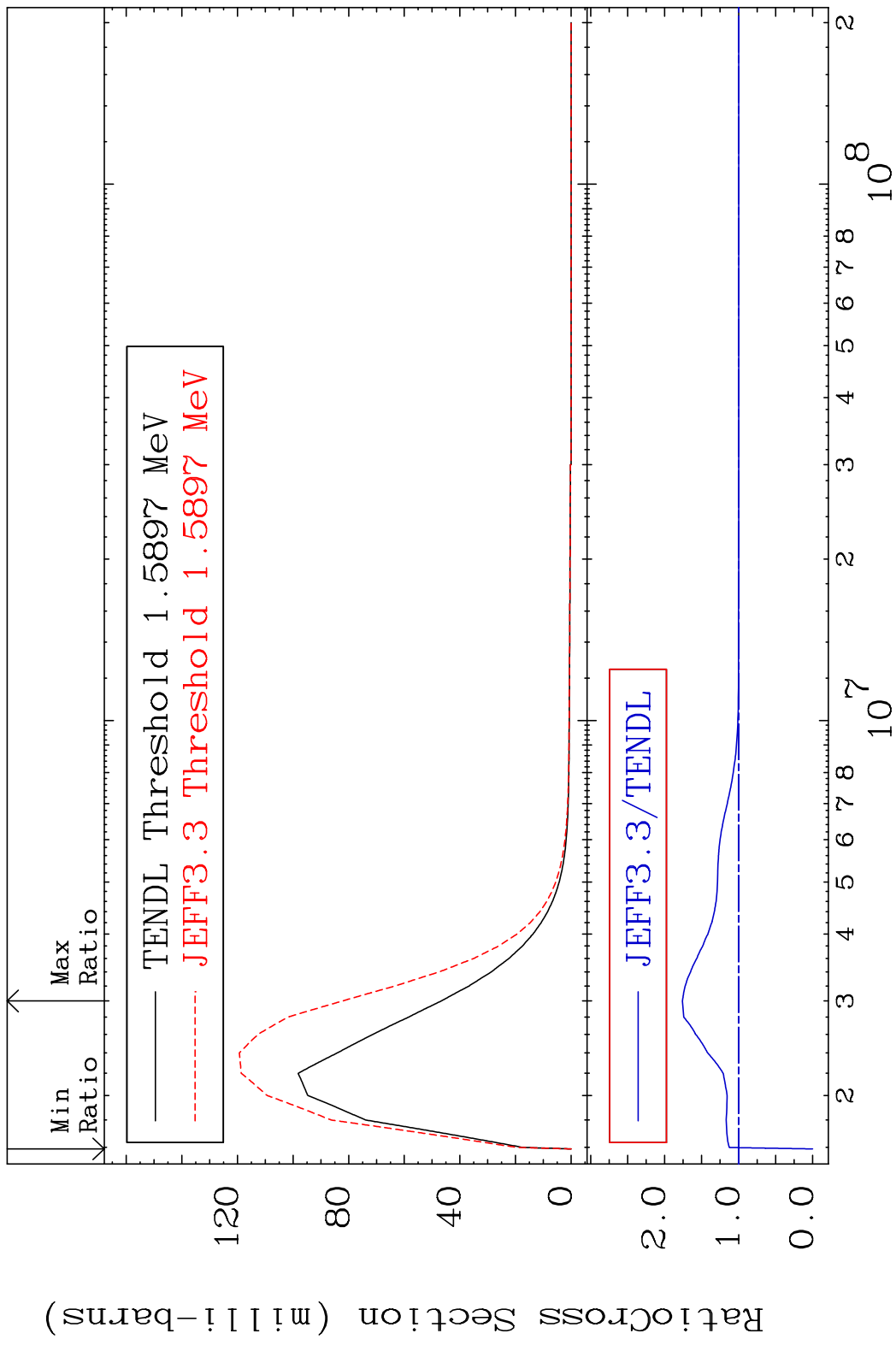
MAT 5834 MT= 53 (n,n') Level 58-Ce-139
 Cross Section -100.0 To 47.54 %



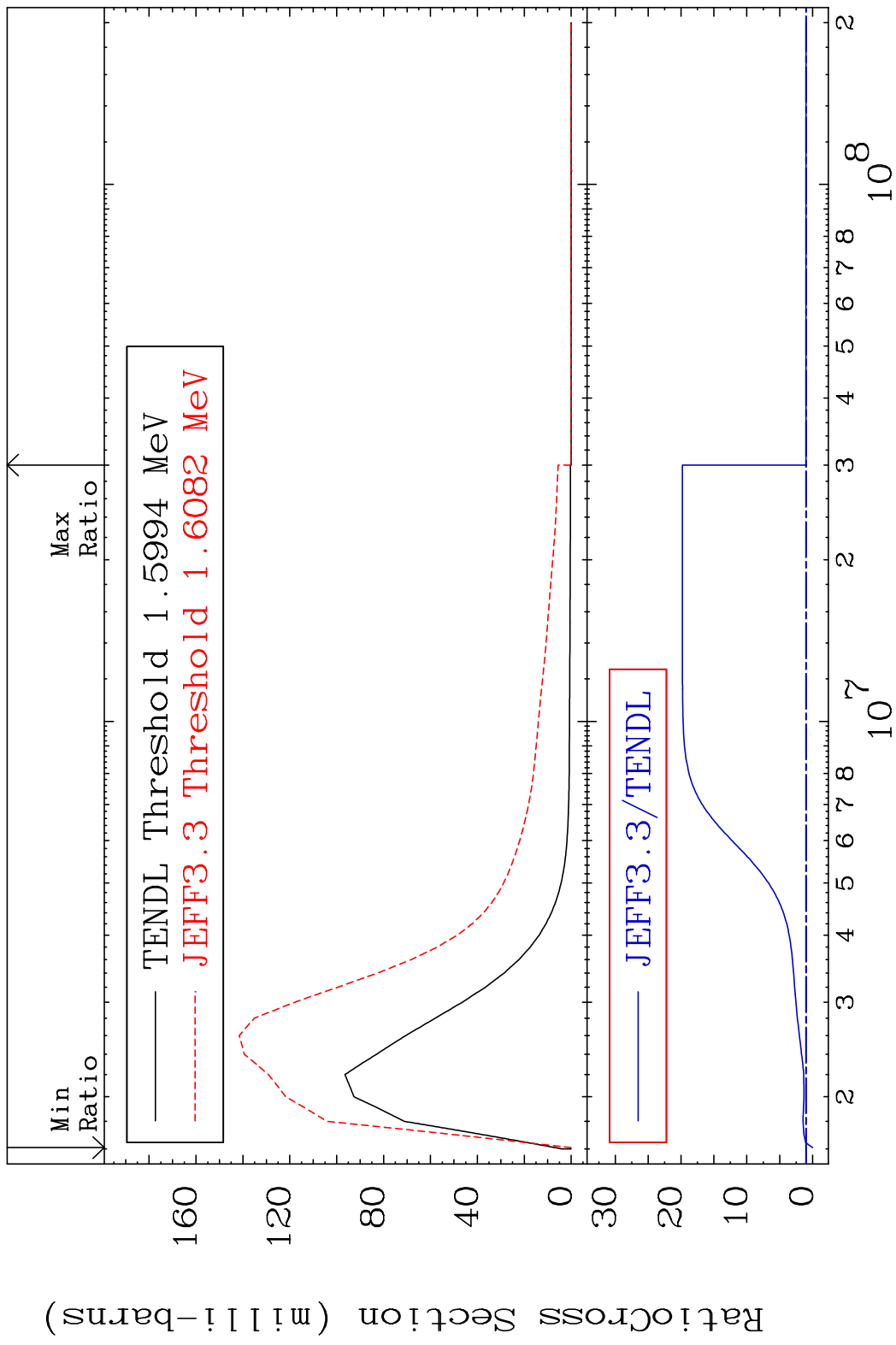
MAT 5834 MT= 54 (n,n') Level 58-Ce-139
 Cross Section -100.0 To 48.37 %



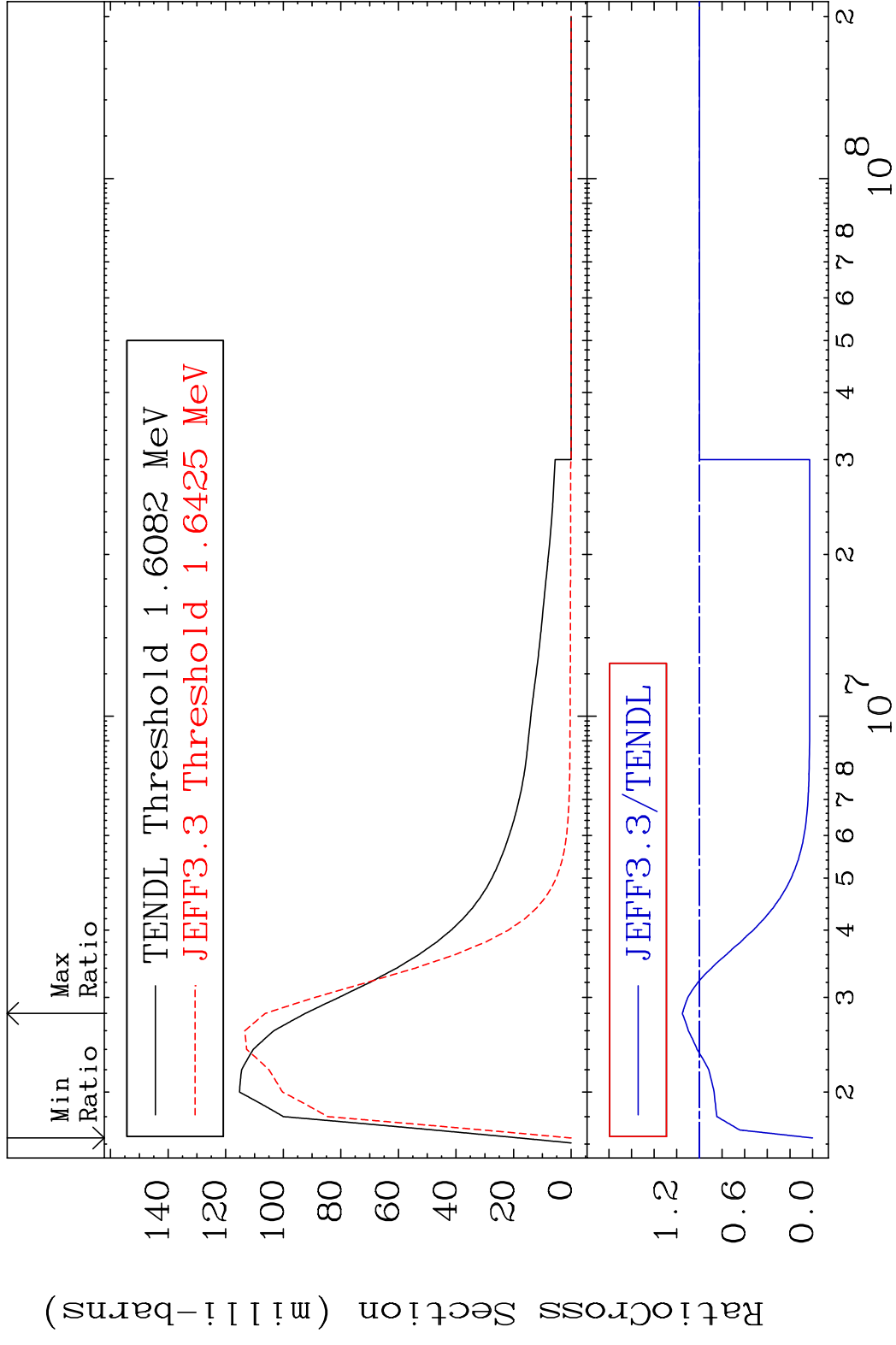
MAT 5834 MT= 55 (n,n') Level 58-Ce-139
 Cross Section -100.0 To 76.07 %



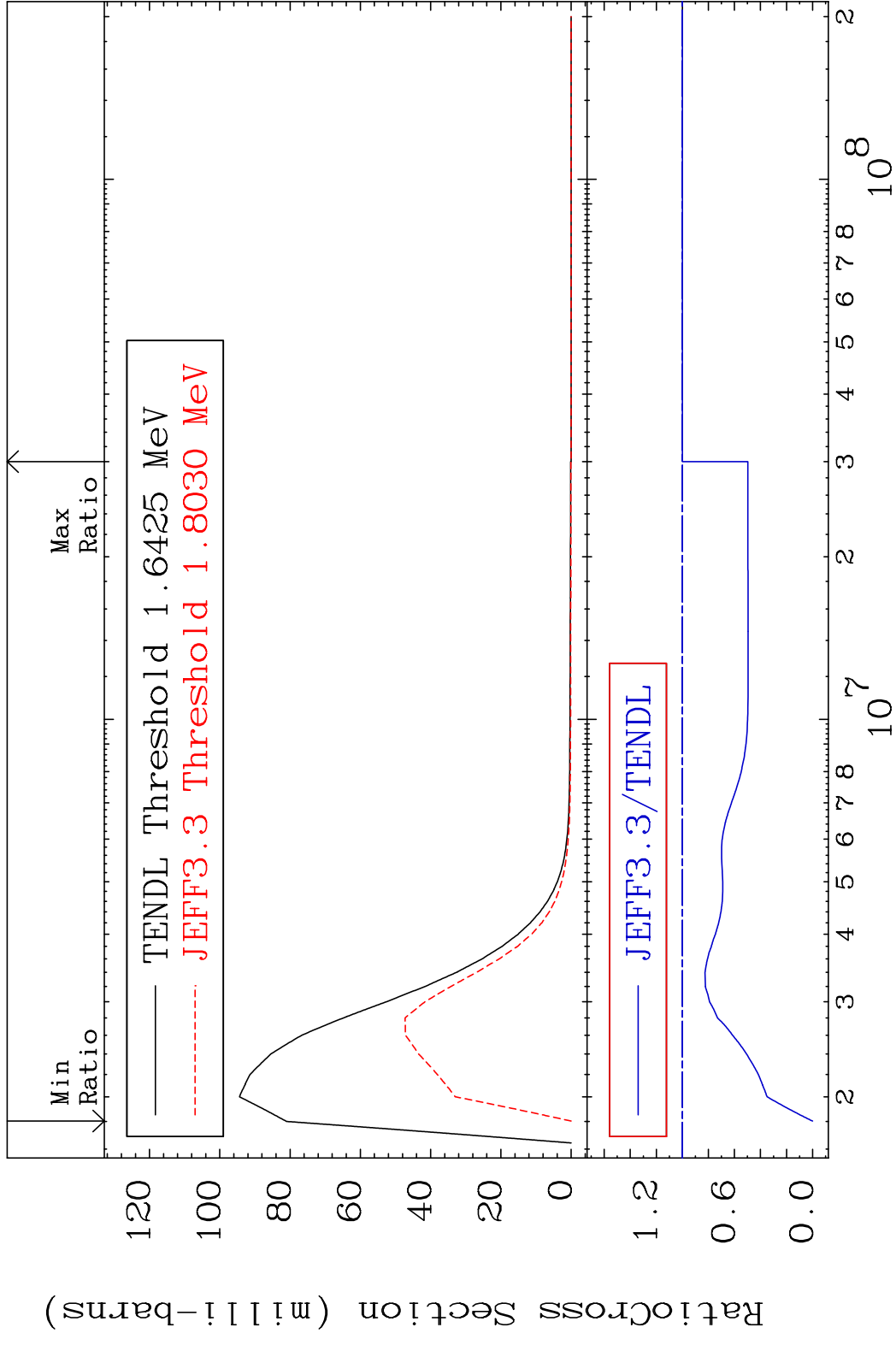
MAT 5834 MT= 56 (n,n') Level 58-Ce-139
 Cross Section -100.0 To 1880. %



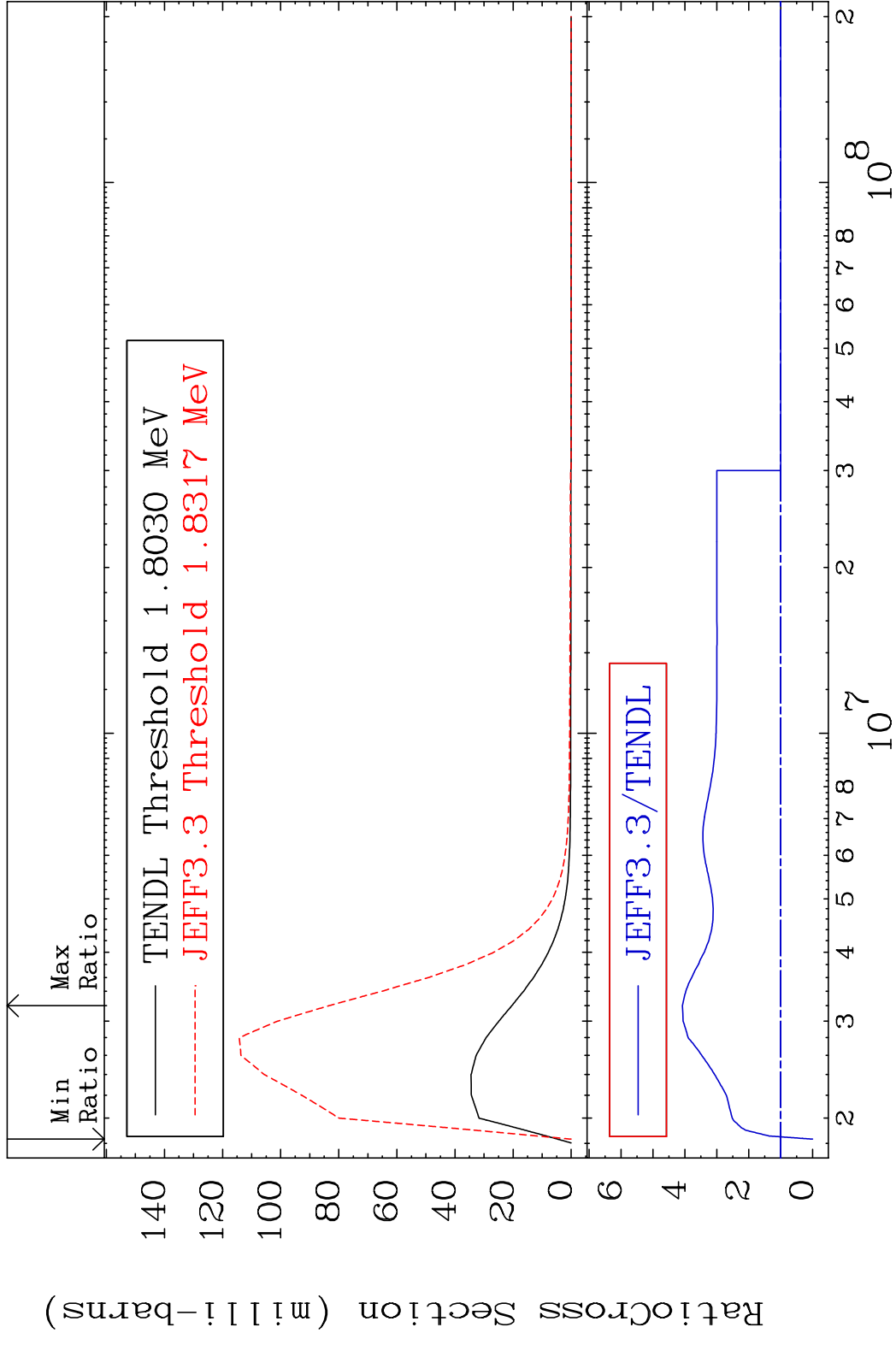
MAT 5834 MT= 57 (n,n') Level 58-Ce-139
 Cross Section -100.0 To 15.08 %



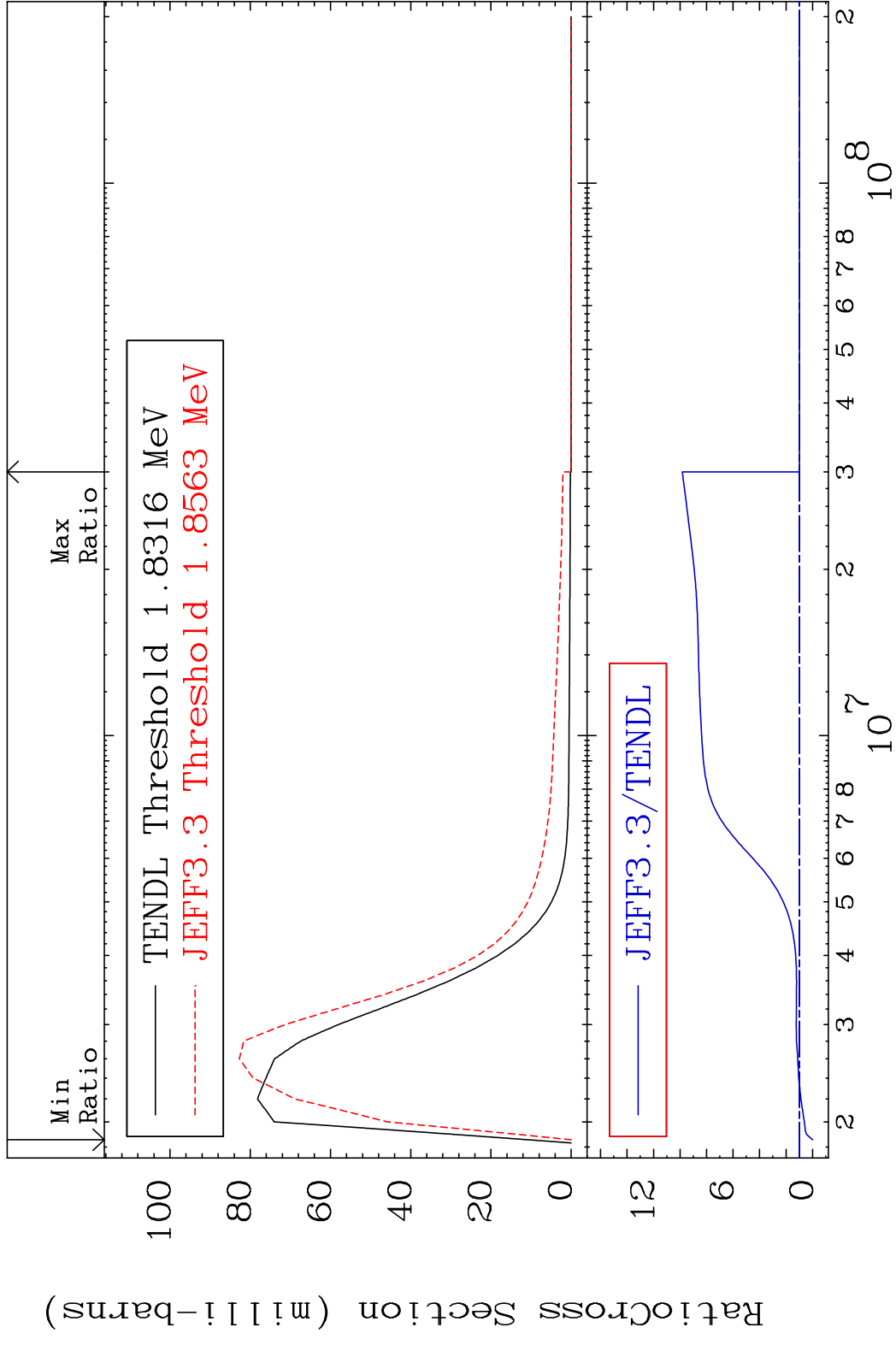
MAT 5834 MT= 58 (n, n') Level 58-Ce-139
 Cross Section -100.0 To 0.000 %



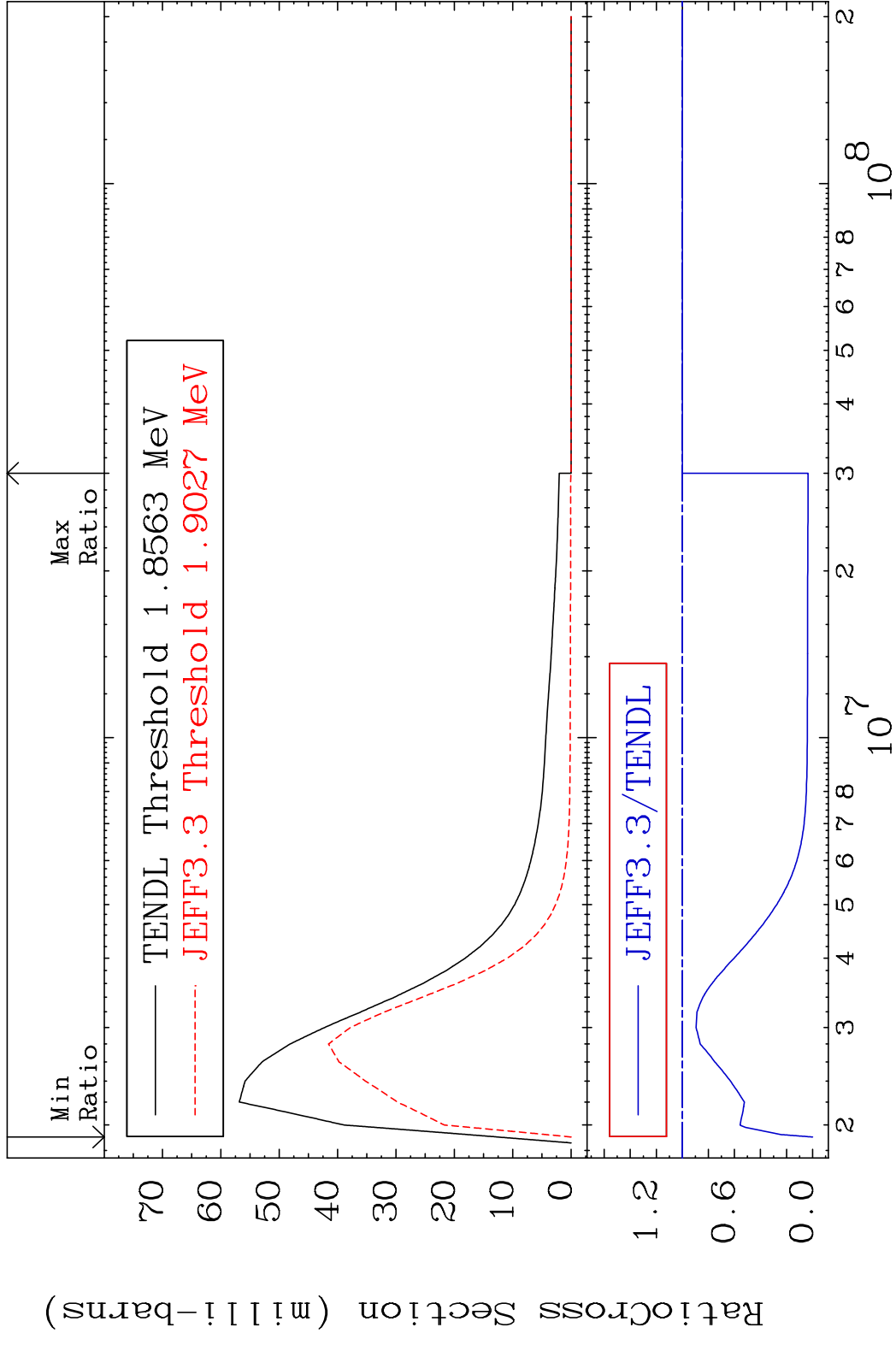
MAT 5834 MT= 59 (n, n') Level 58-Ce-139
 Cross Section -100.0 To 308.0 %



MAT 5834 MT= 60 (n, n') Level 58-Ce-139
 Cross Section -100.0 To 882.7 %

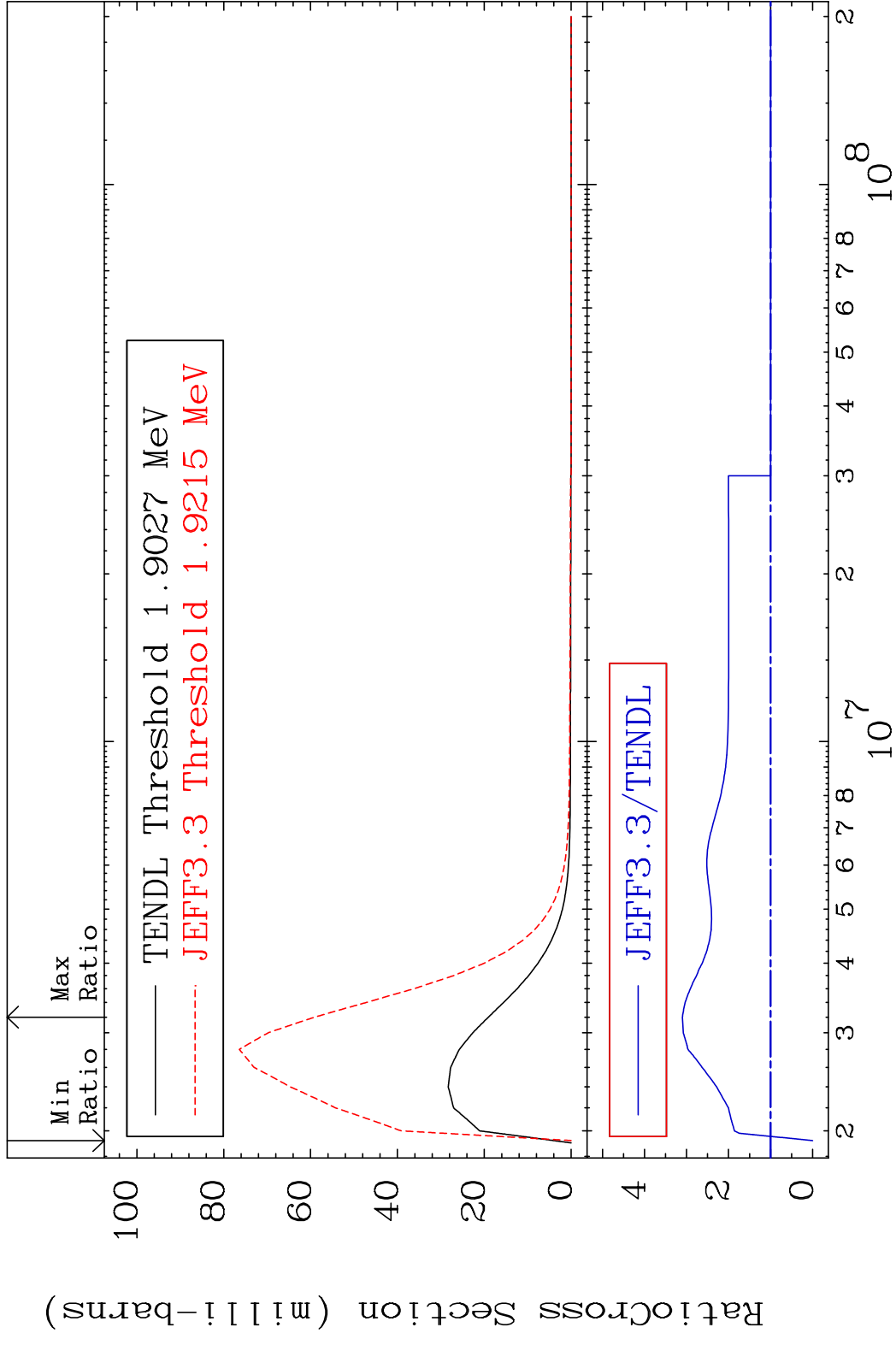


MAT 5834 MT= 61 (n, n') Level 58-Ce-139
 Cross Section -100.0 To 0.000 %

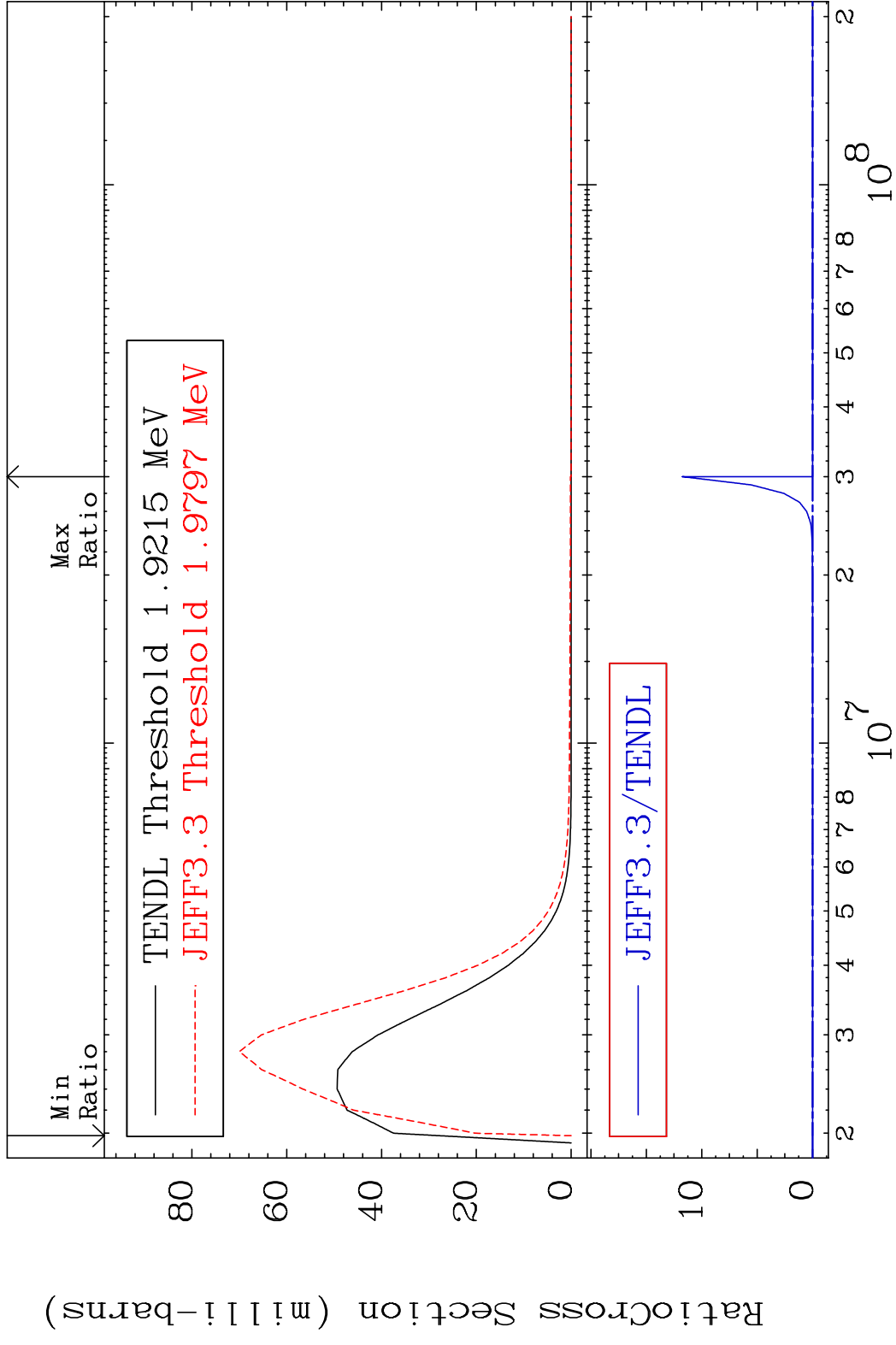


30 Incident Energy (eV) 58-Ce-139

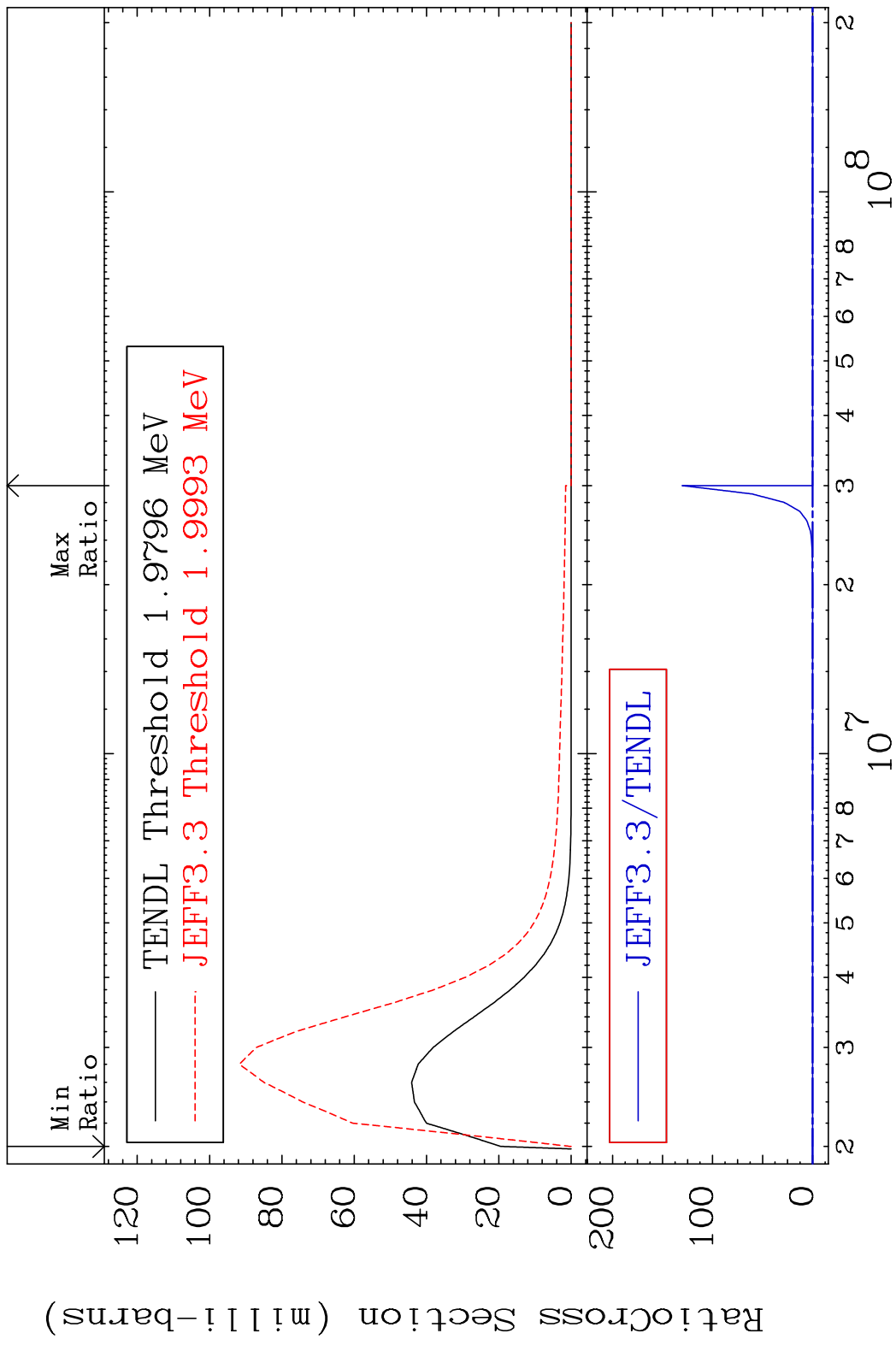
MAT 5834 MT= 62 (n, n') Level 58-Ce-139
 Cross Section -100.0 To 210.0 %



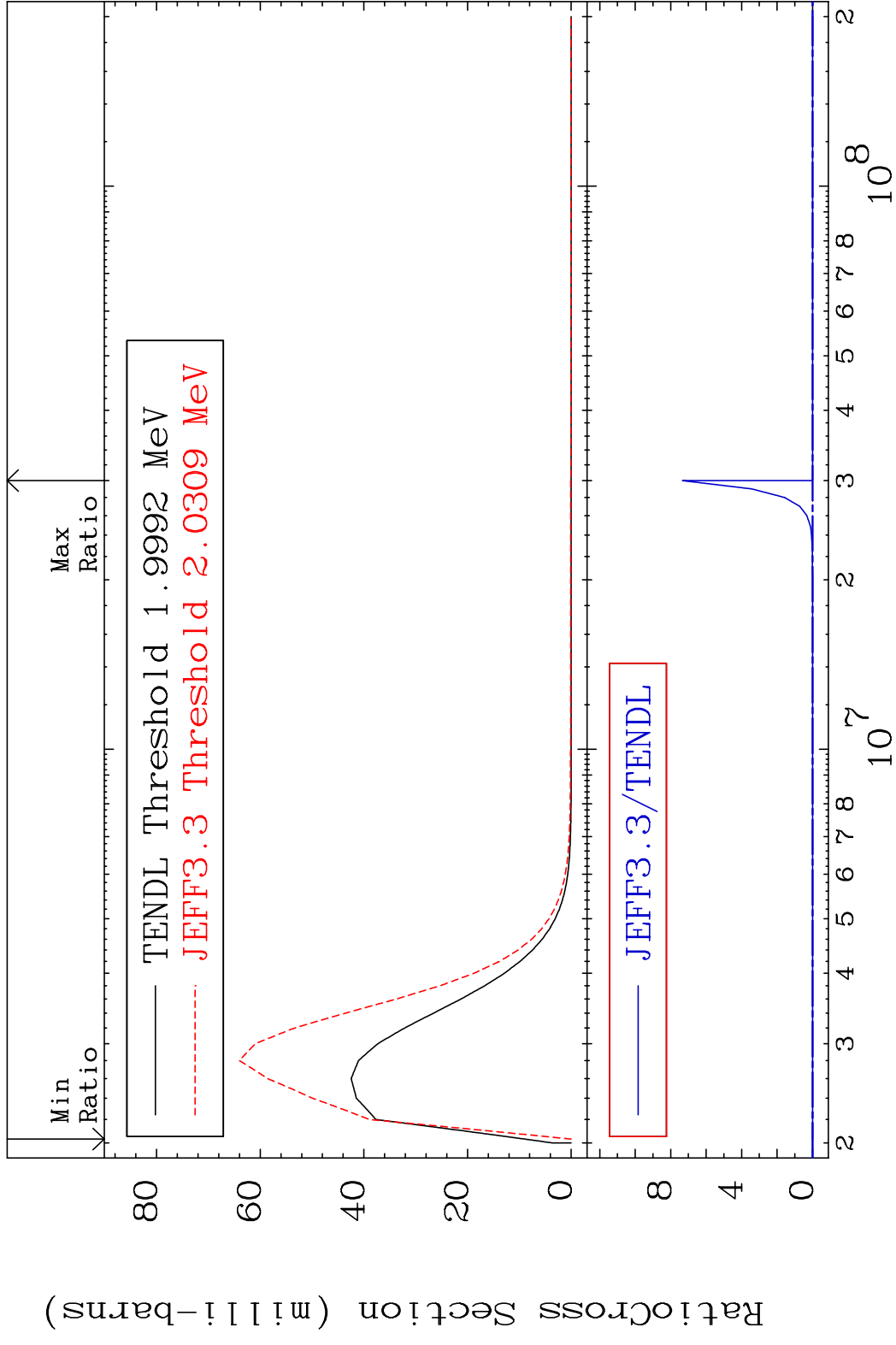
MAT 5834 MT= 63 (n, n') Level 58-Ce-139
 Cross Section -100.0 To 9999. %



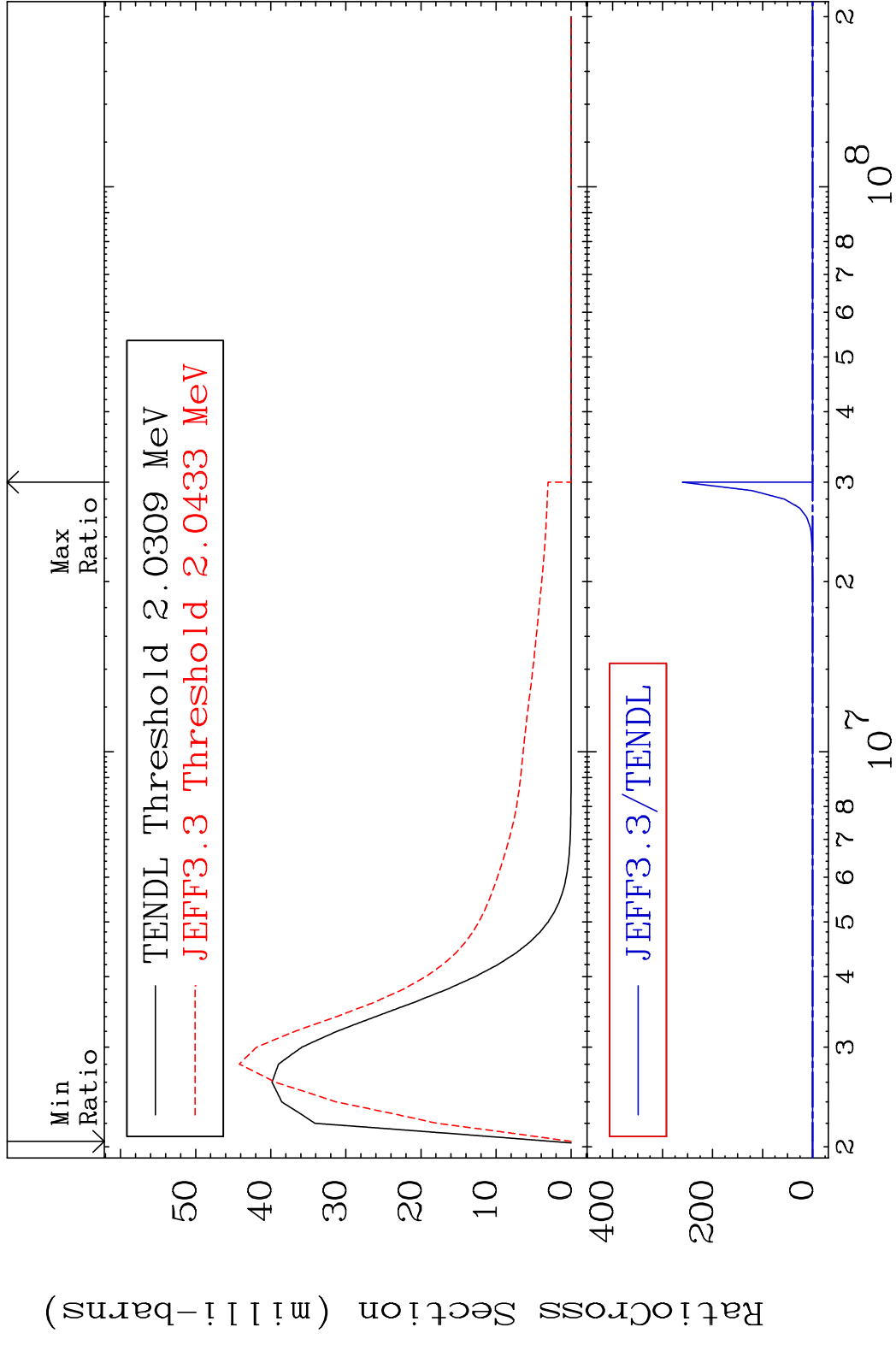
MAT 5834 MT= 64 (n, n') Level 58-Ce-139
 Cross Section -100.0 To 9999. %



MAT 5834 MT= 65 (n, n') Level 58-Ce-139
 Cross Section -100.0 To 9999. %

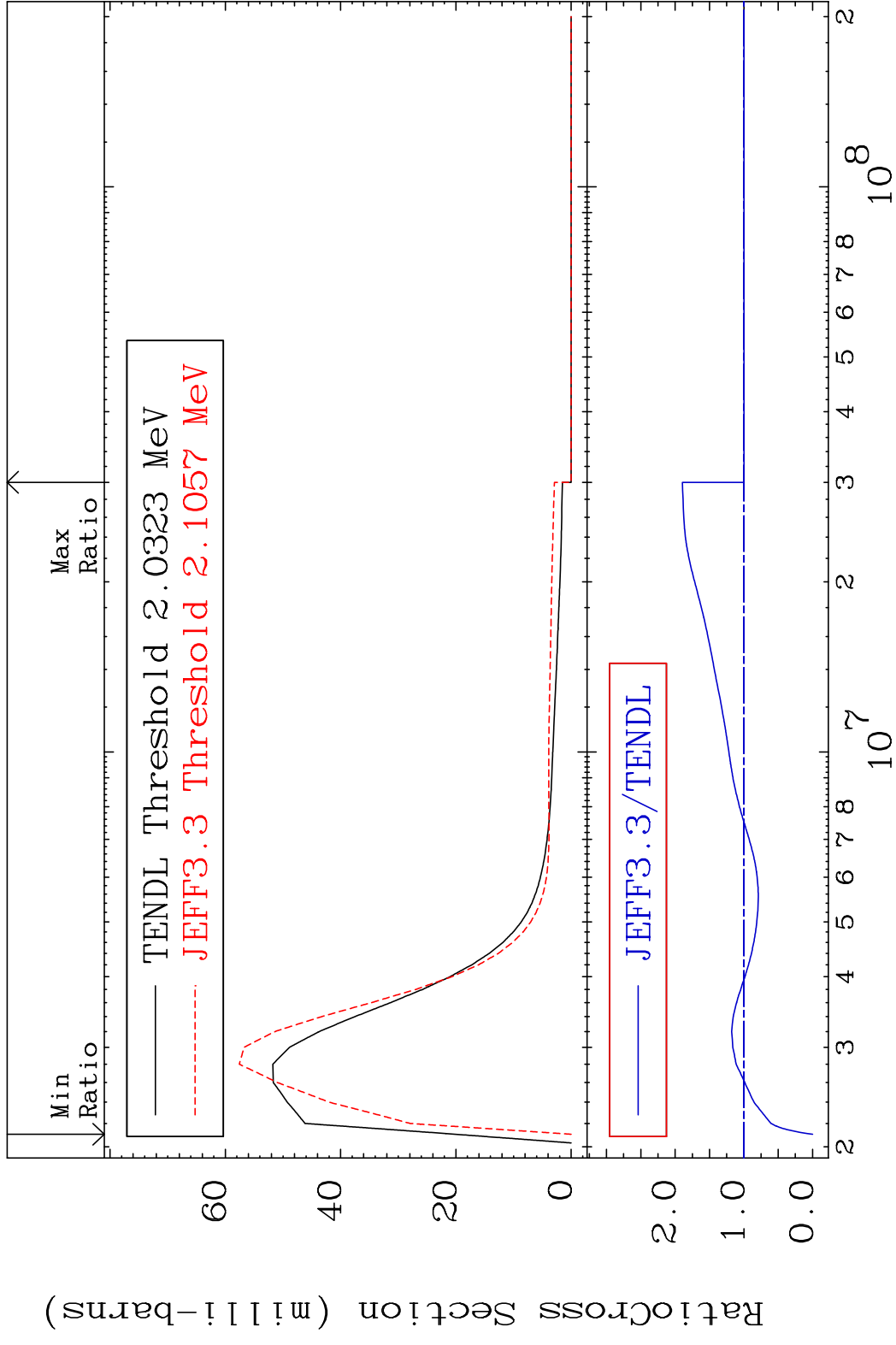


MAT 5834 MT= 66 (n, n') Level 58-Ce-139
 Cross Section -100.0 To 9999. %

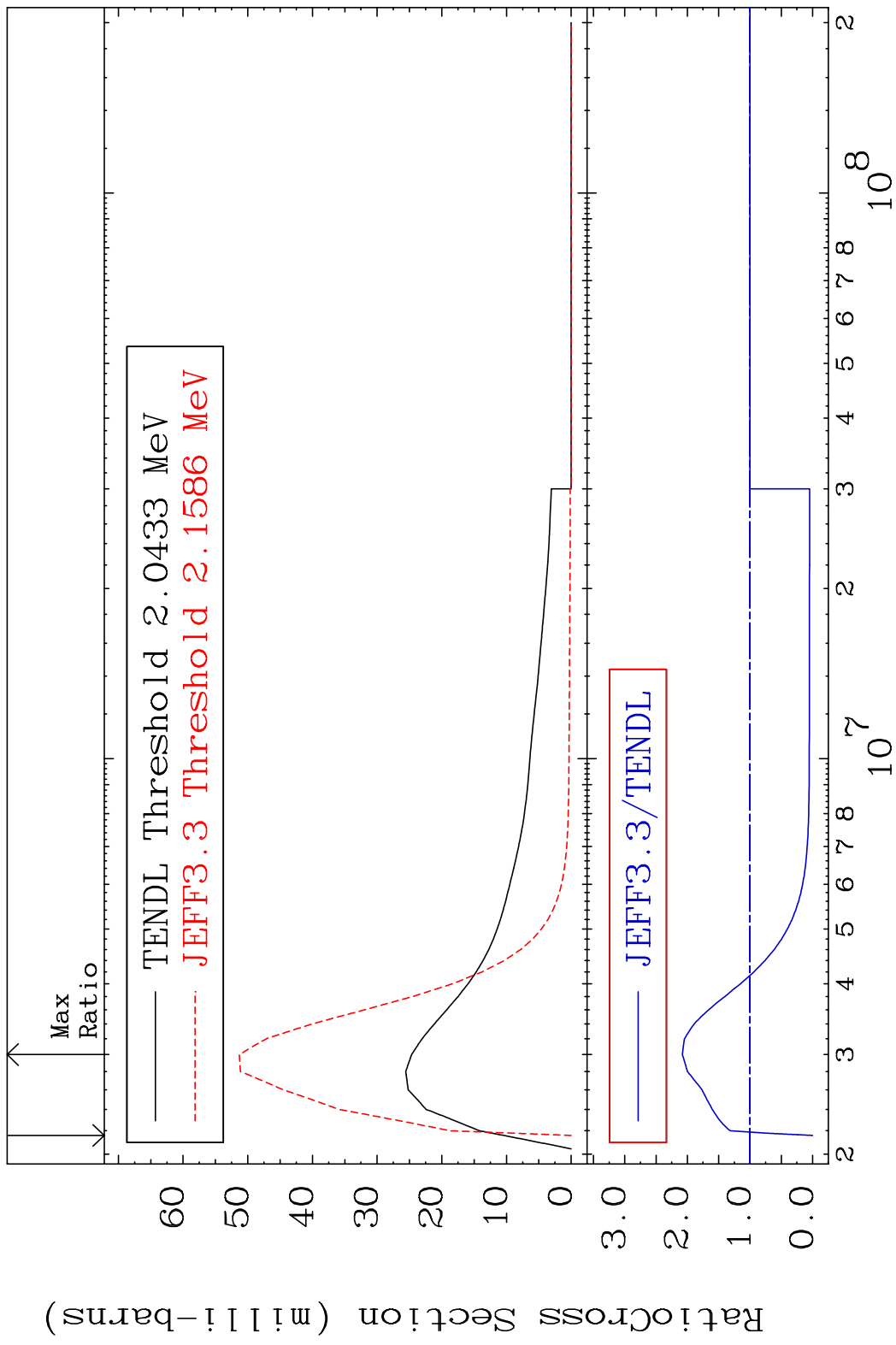


35 Incident Energy (eV) 58-Ce-139

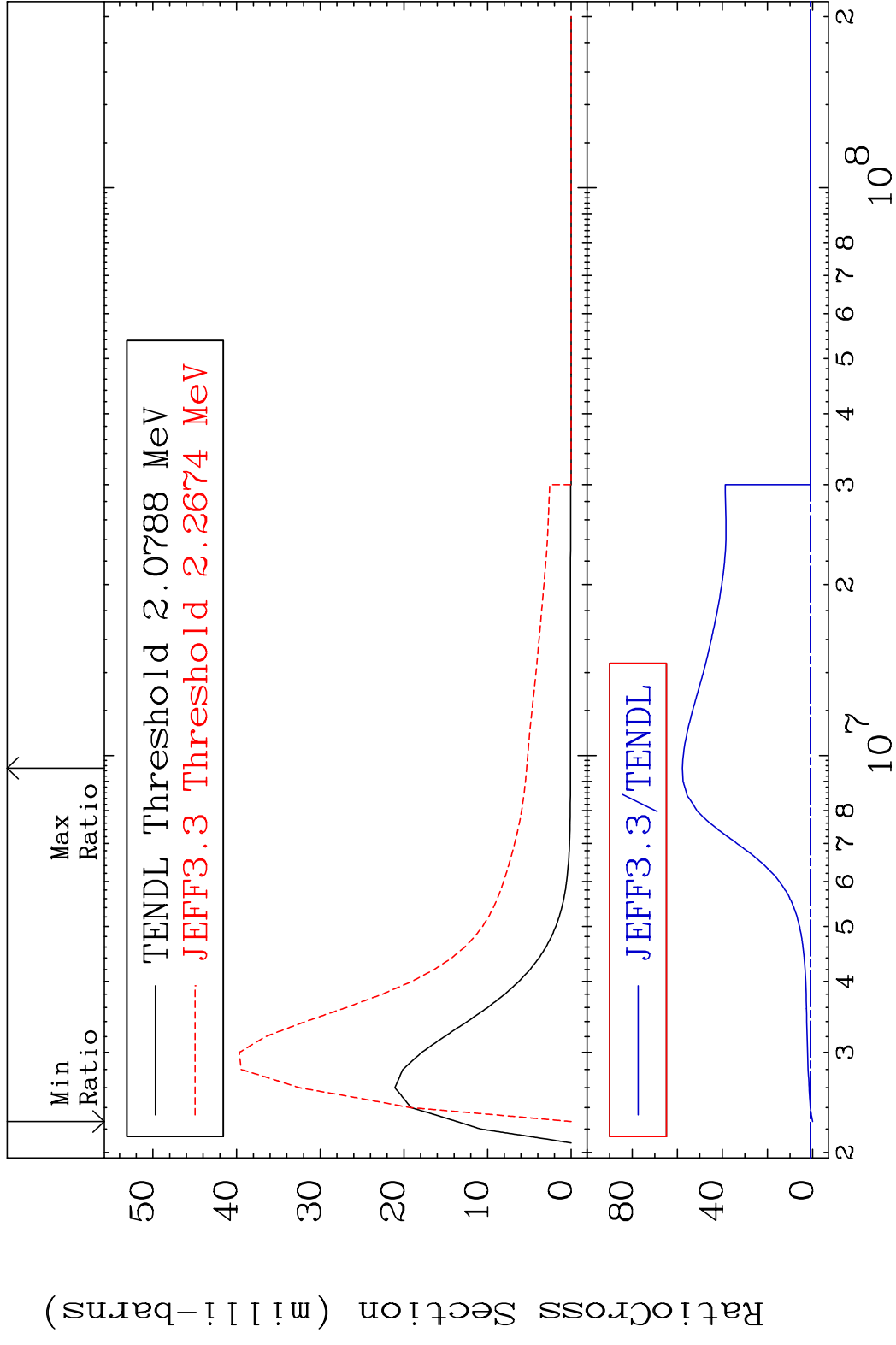
MAT 5834 MT= 67 (n, n') Level 58-Ce-139
 Cross Section -100.0 To 89.51 %



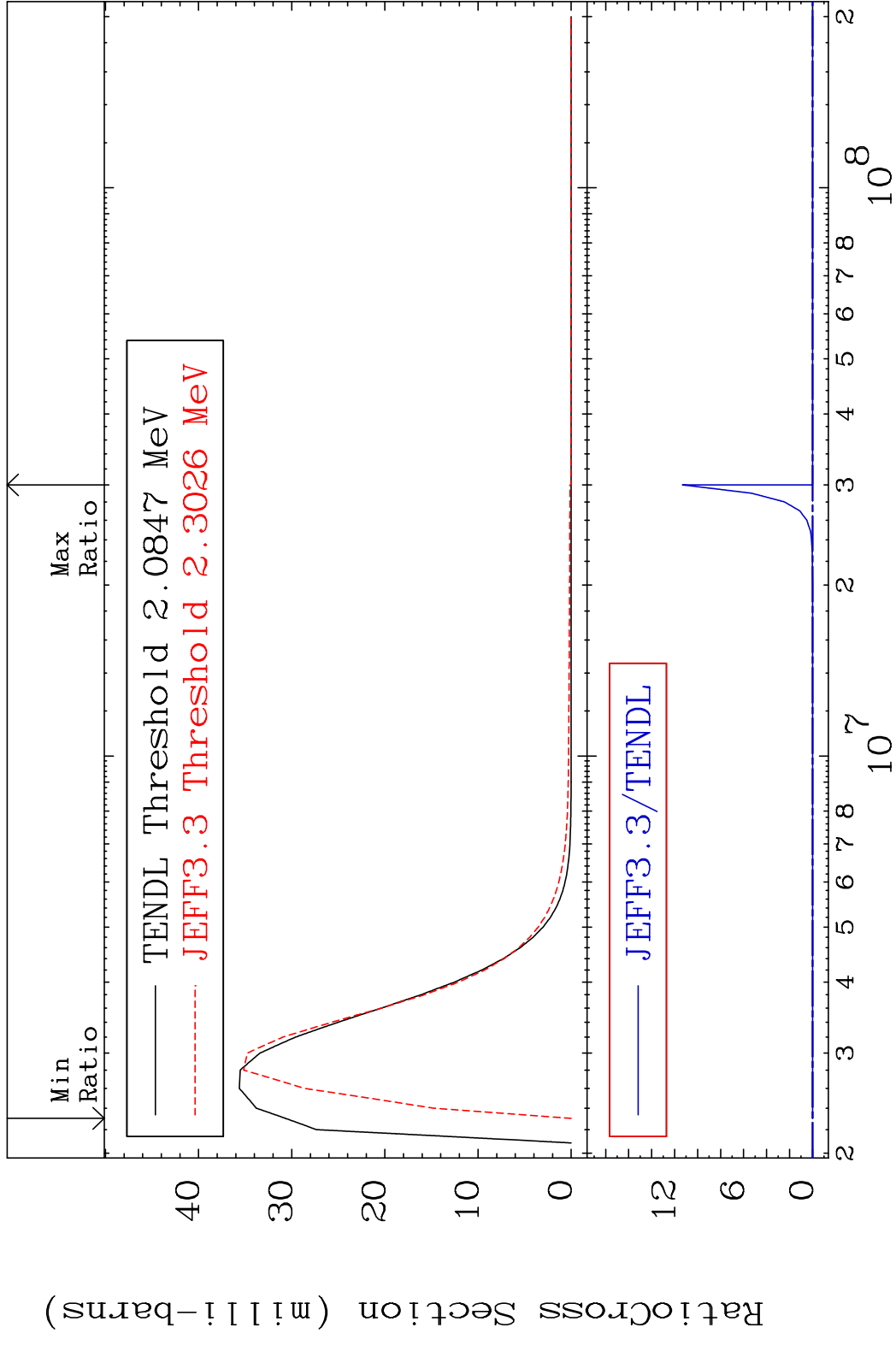
MAT 5834 MT= 68 (n,n') Level 58-Ce-139
 Cross Section -100.0 To 108.0 %



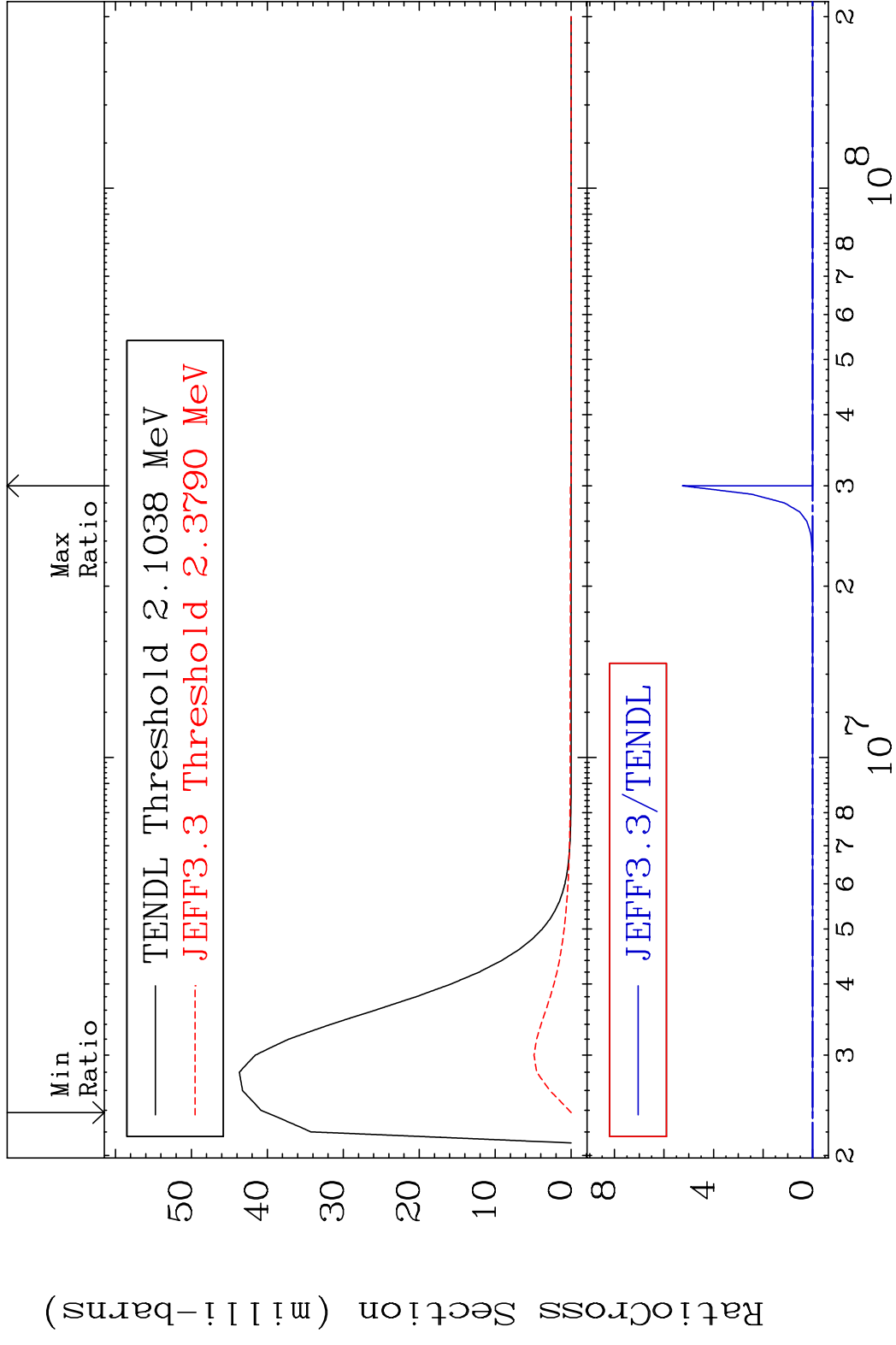
MAT 5834 MT= 69 (n,n') Level 58-Ce-139
 Cross Section -100.0 To 5675. %



MAT 5834 MT= 70 (n, n') Level 58-Ce-139
 Cross Section -100.0 To 9999. %

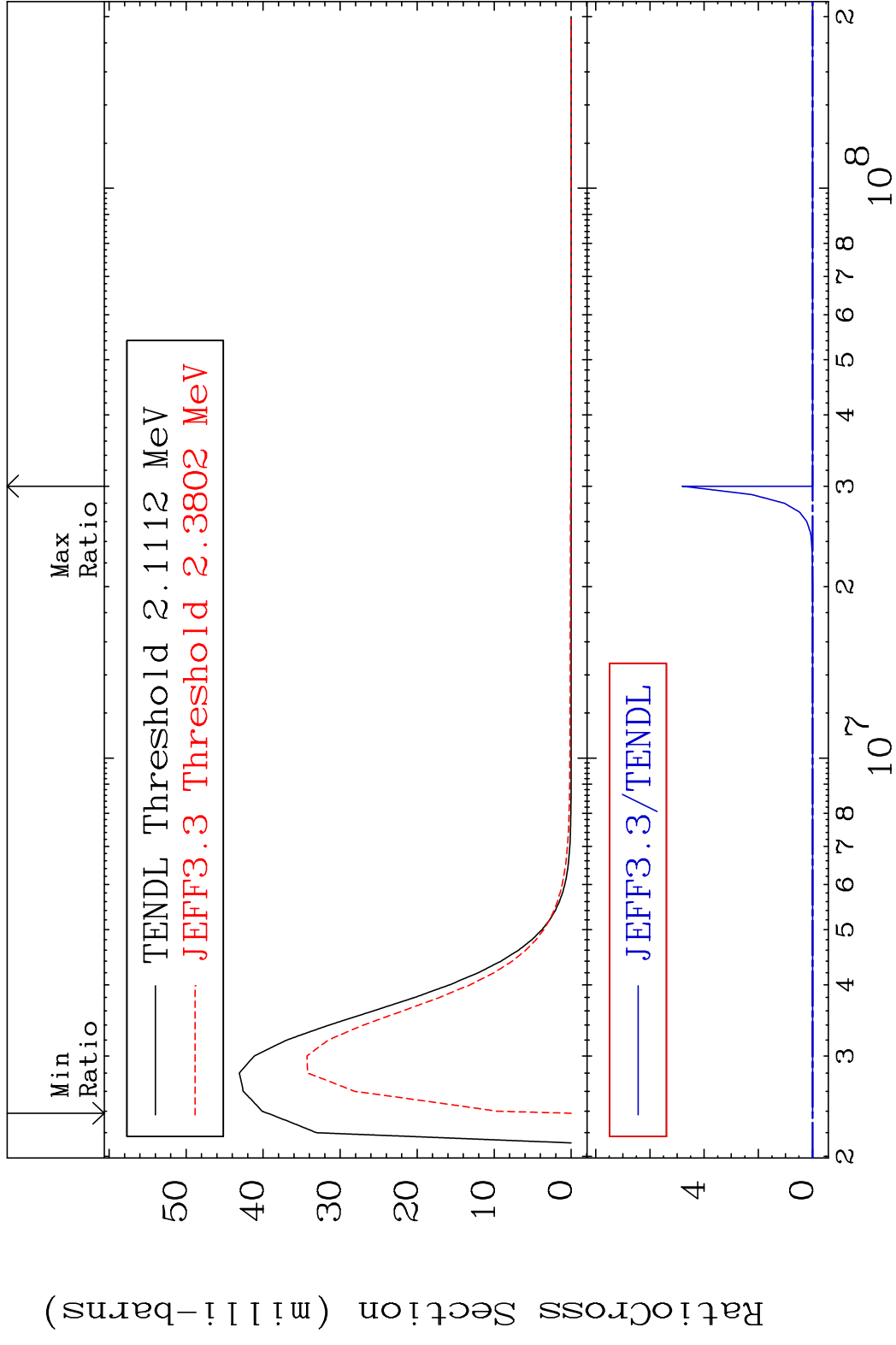


MAT 5834 MT= 71 (n, n') Level 58-Ce-139
 Cross Section -100.0 To 9999. %

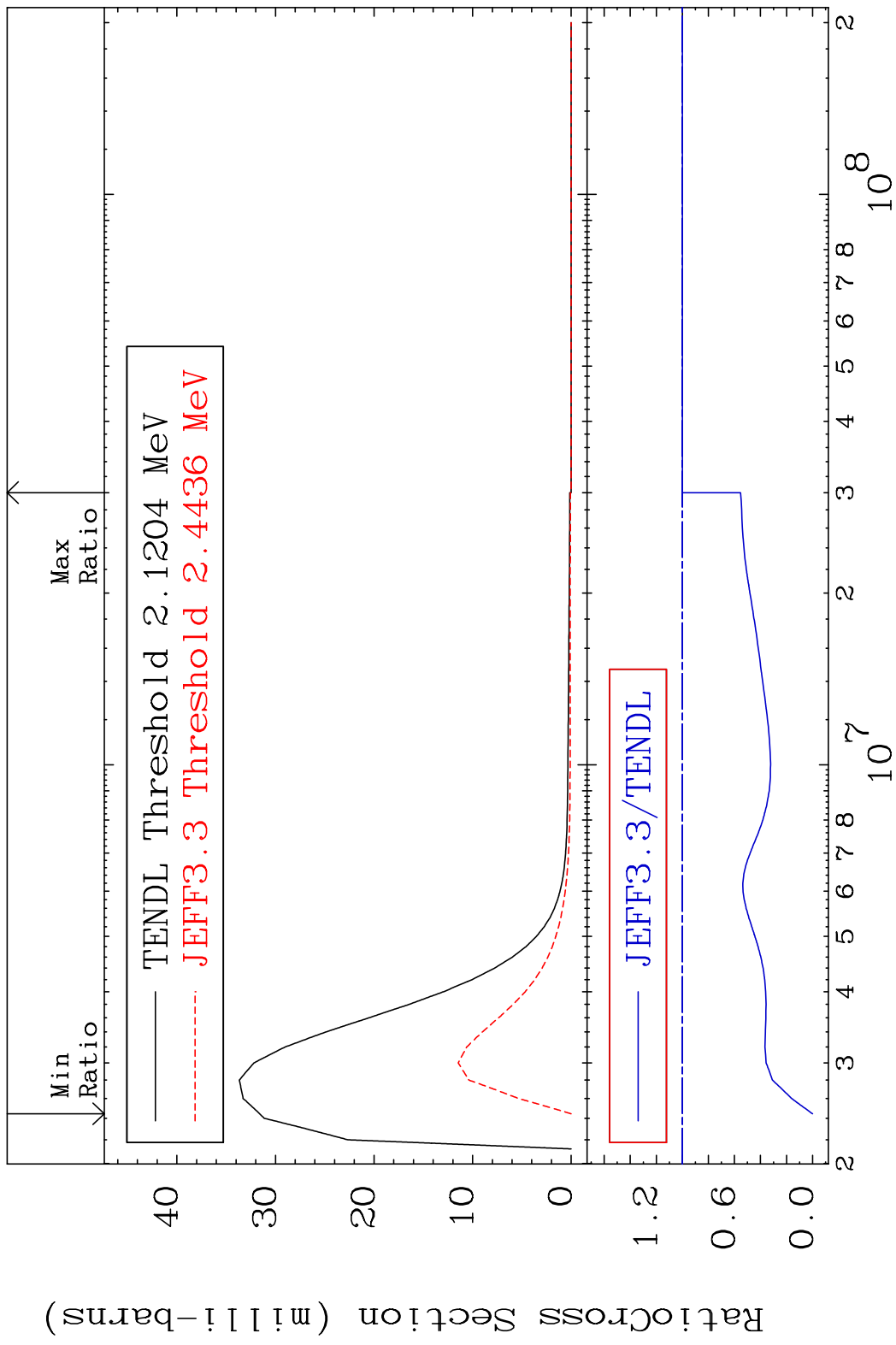


40 Incident Energy (eV) 58-Ce-139

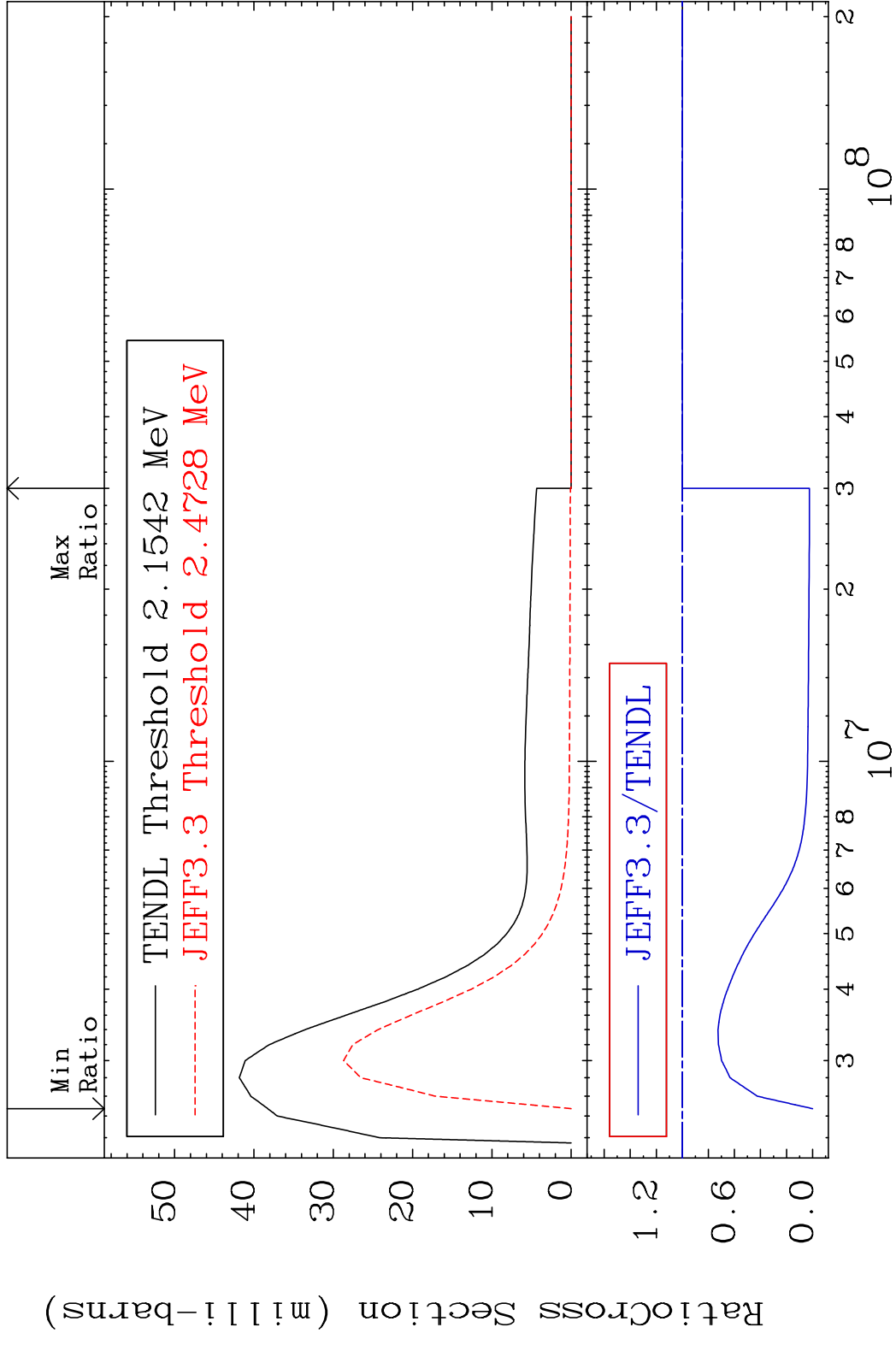
MAT 5834 MT= 72 (n, n') Level 58-Ce-139
 Cross Section -100.0 To 9999. %



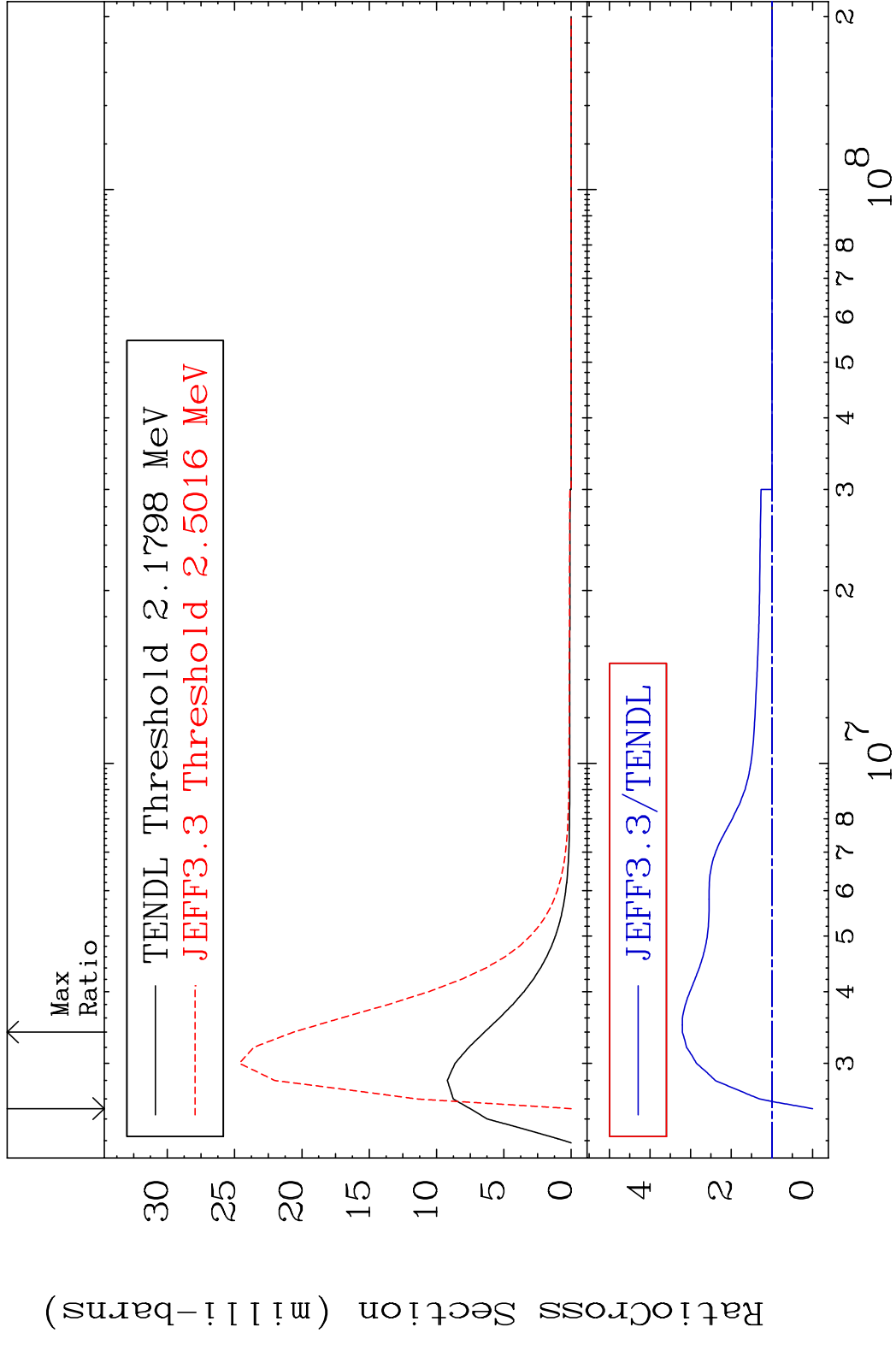
MAT 5834 MT= 73 (n, n') Level 58-Ce-139
 Cross Section -100.0 To 0.000 %



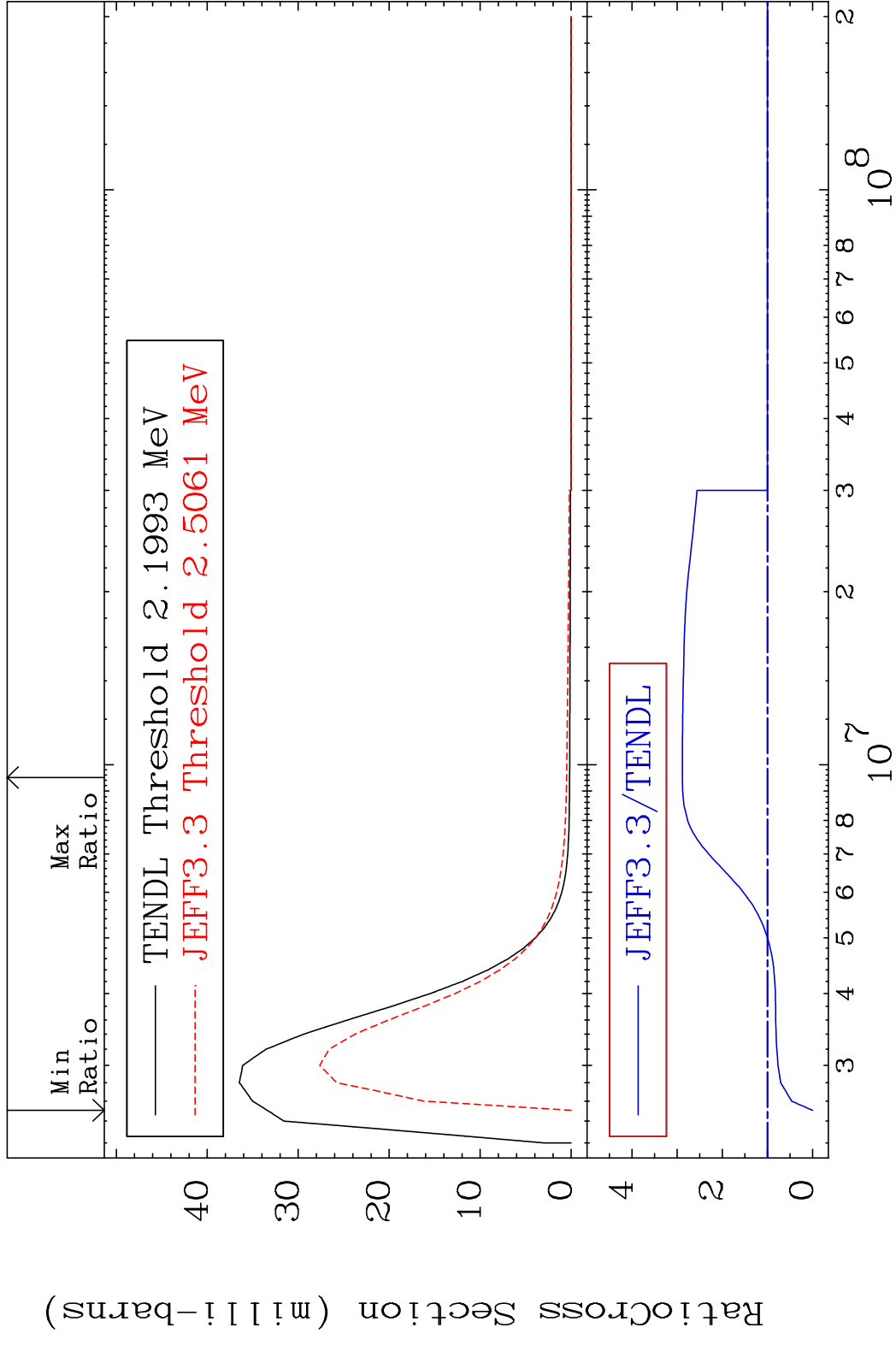
MAT 5834 MT= 74 (n, n') Level 58-Ce-139
 Cross Section -100.0 To 0.000 %



MAT 5834 MT= 75 (n,n') Level 58-Ce-139
 Cross Section -100.0 To 220.4 %



MAT 5834 MT= 76 (n, n') Level 58-Ce-139
 Cross Section -100.0 To 188.5 %

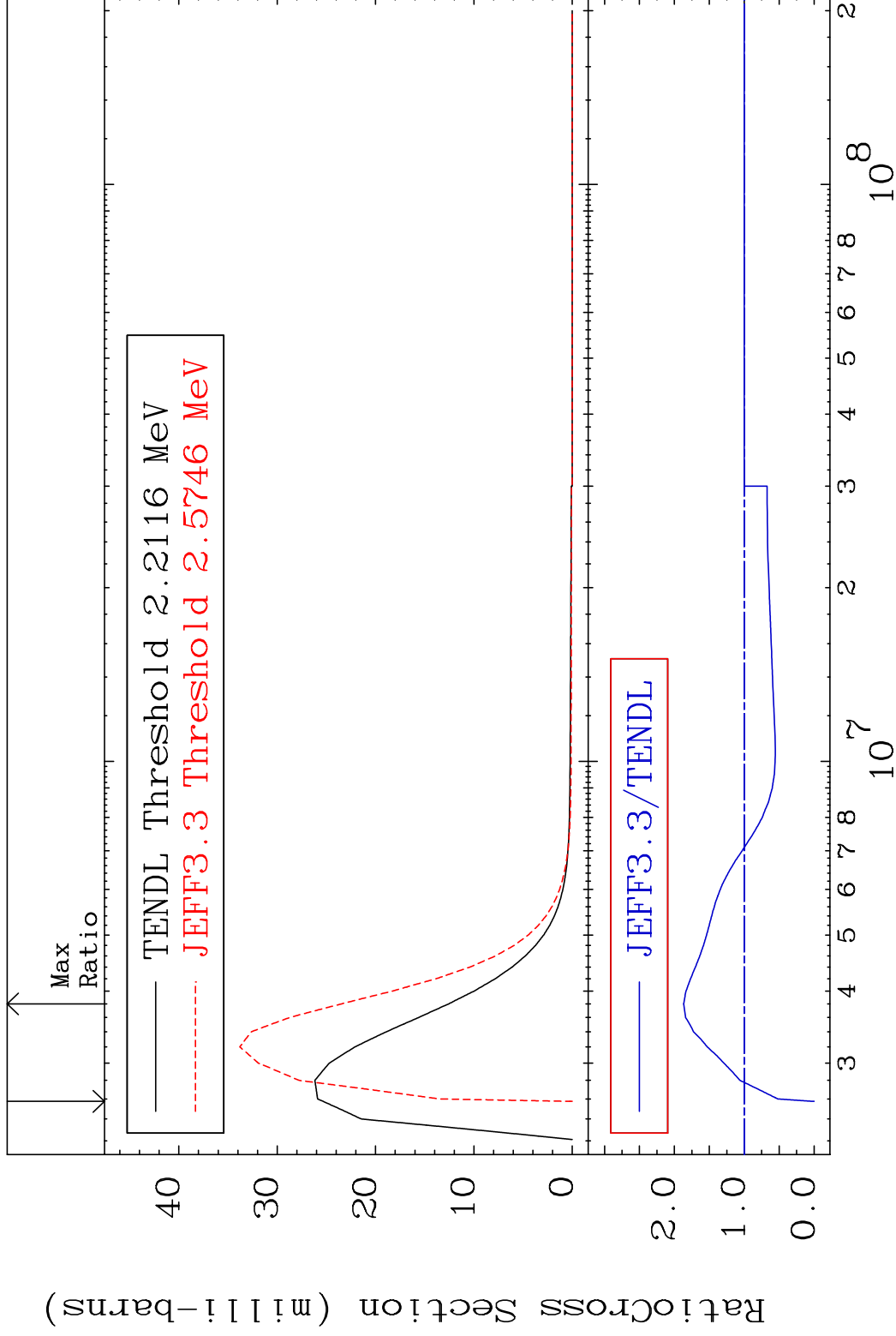


MAT 5834

MT= 77 (n,n') Level

58-Ce-139

Cross Section -100.0 To 86.74 %

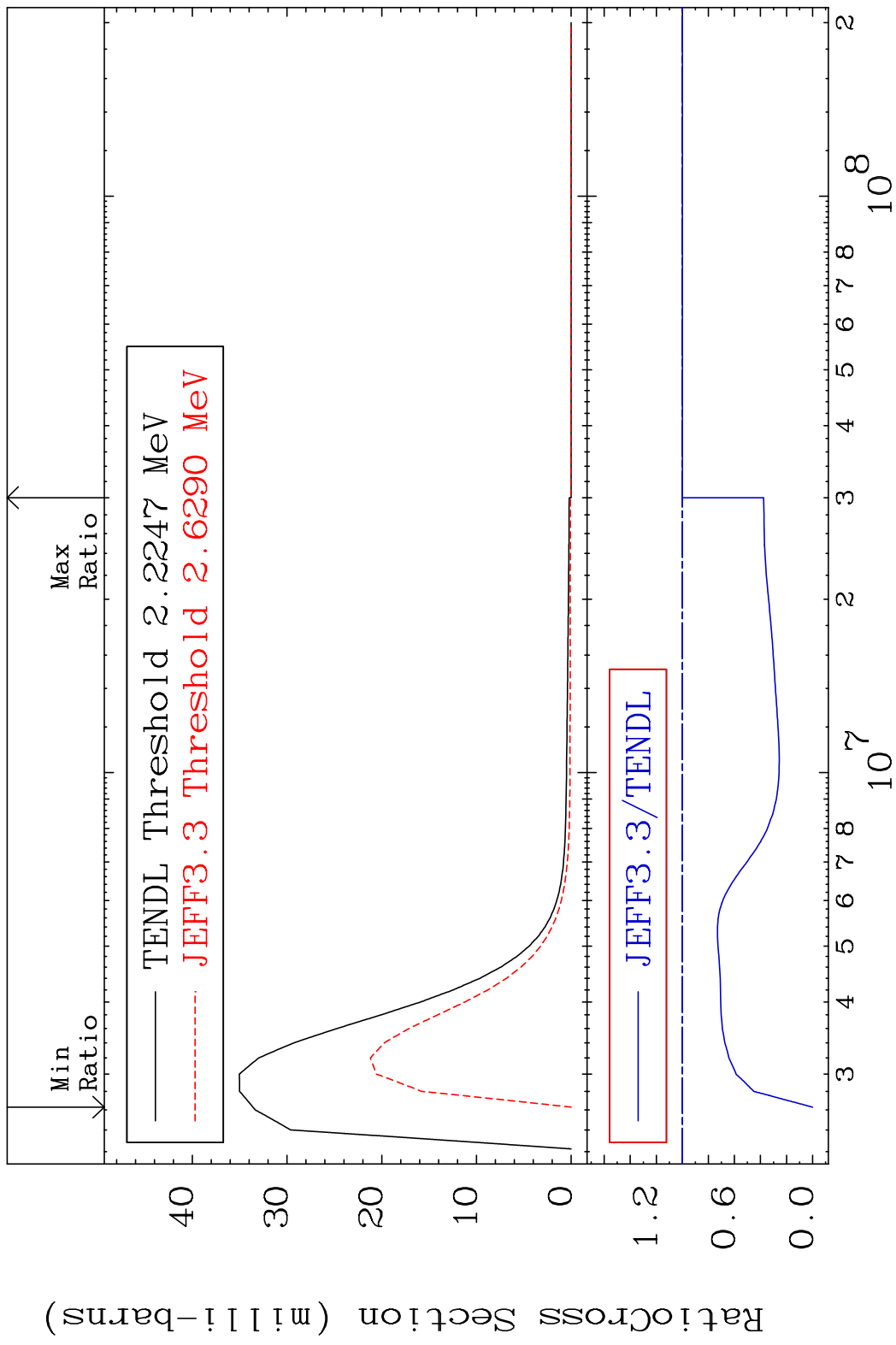


46

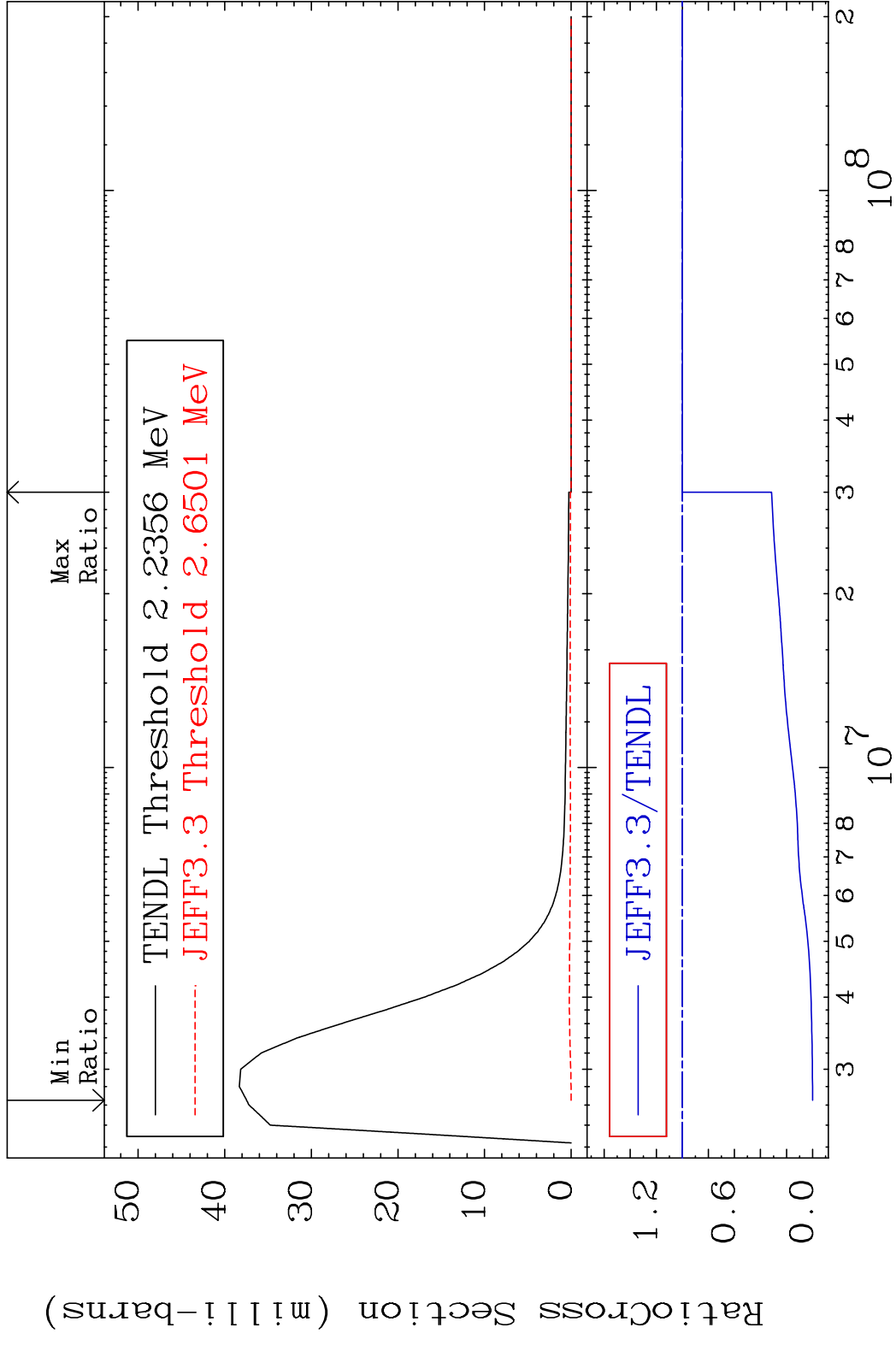
Incident Energy (eV)

58-Ce-139

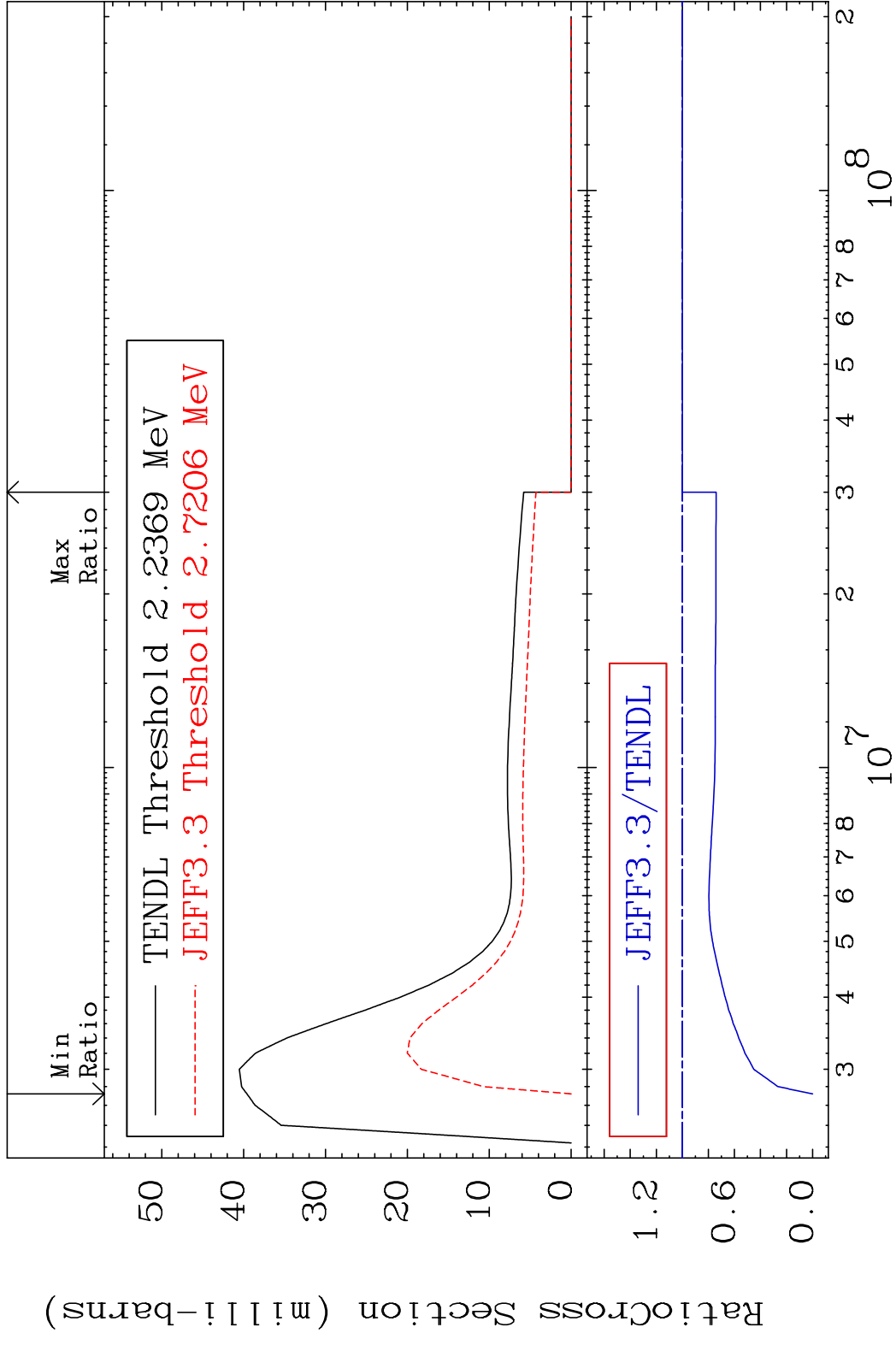
MAT 5834 MT= 78 (n, n') Level 58-Ce-139
 Cross Section -100.0 To 0.000 %



MAT 5834 MT= 79 (n, n') Level 58-Ce-139
 Cross Section -100.0 To 0.000 %



MAT 5834 MT= 80 (n, n') Level 58-Ce-139
 Cross Section -100.0 To 0.000 %

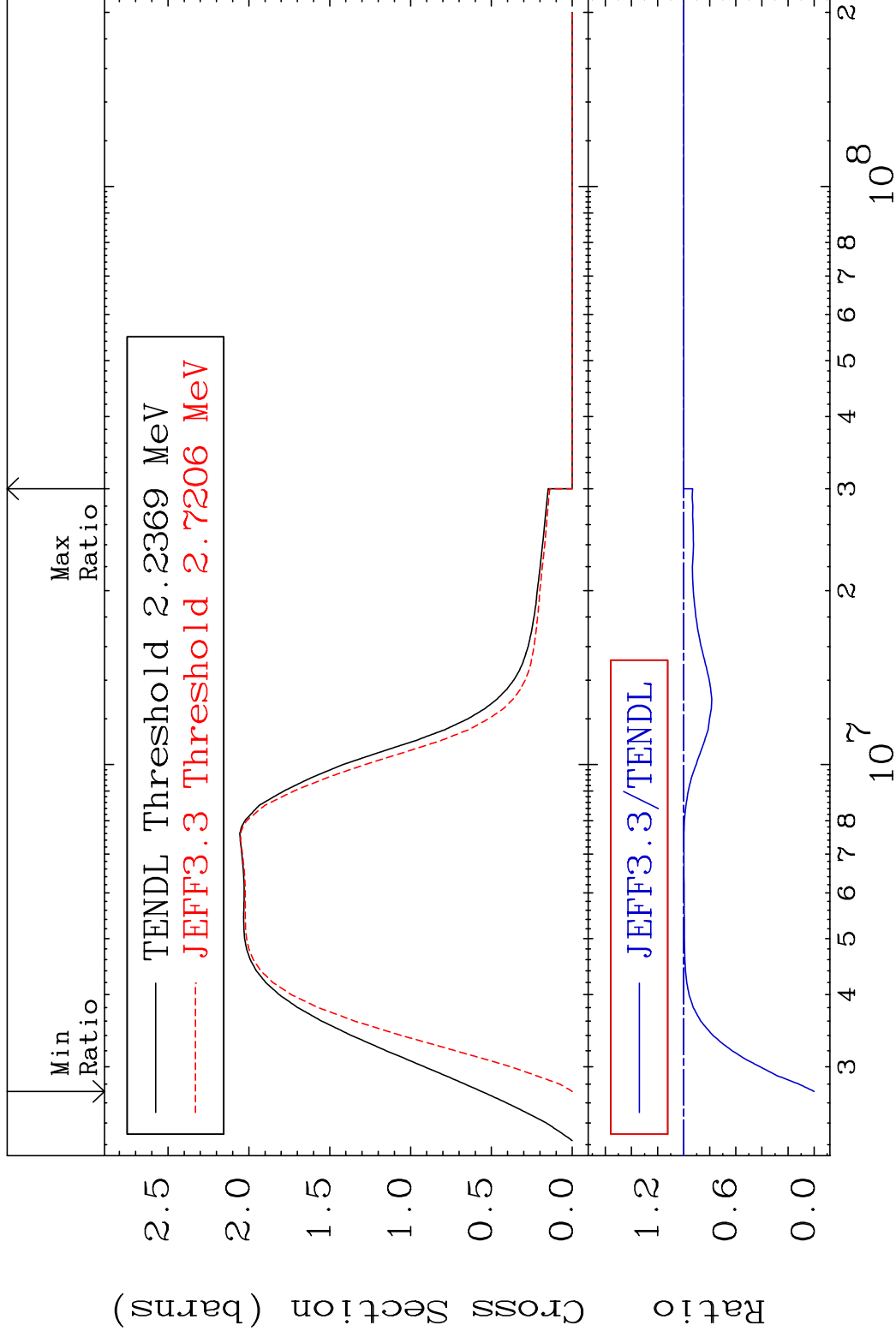


MAT 5834

(n, n') Continuum

58-Ce-139

Cross Section -100.0 To 0.000 %



50

Incident Energy (eV)

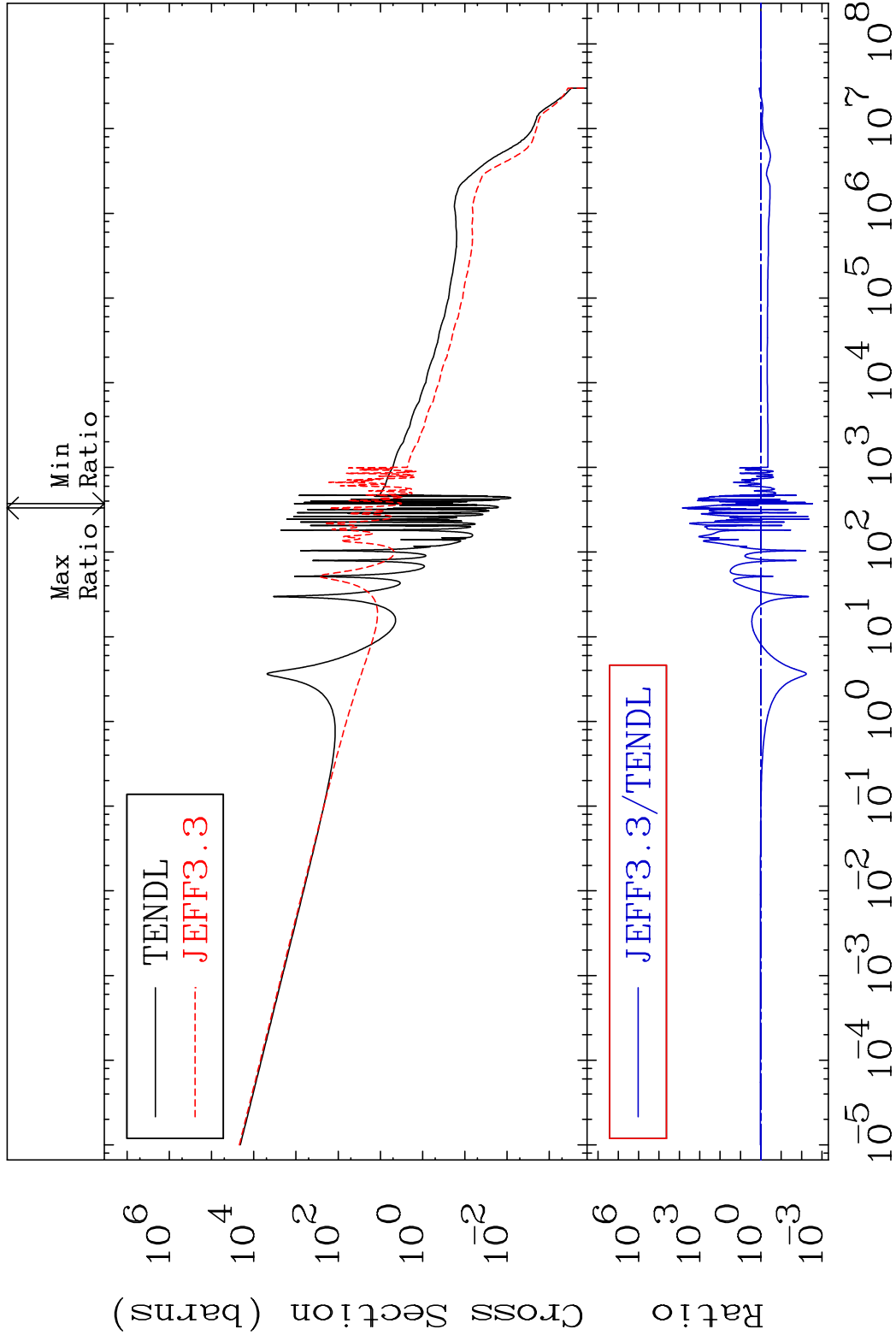
58-Ce-139

MAT 5834

(n, γ)

58-Ce-139

Cross Section -99.71 To 9999. %



51

Incident Energy (eV)

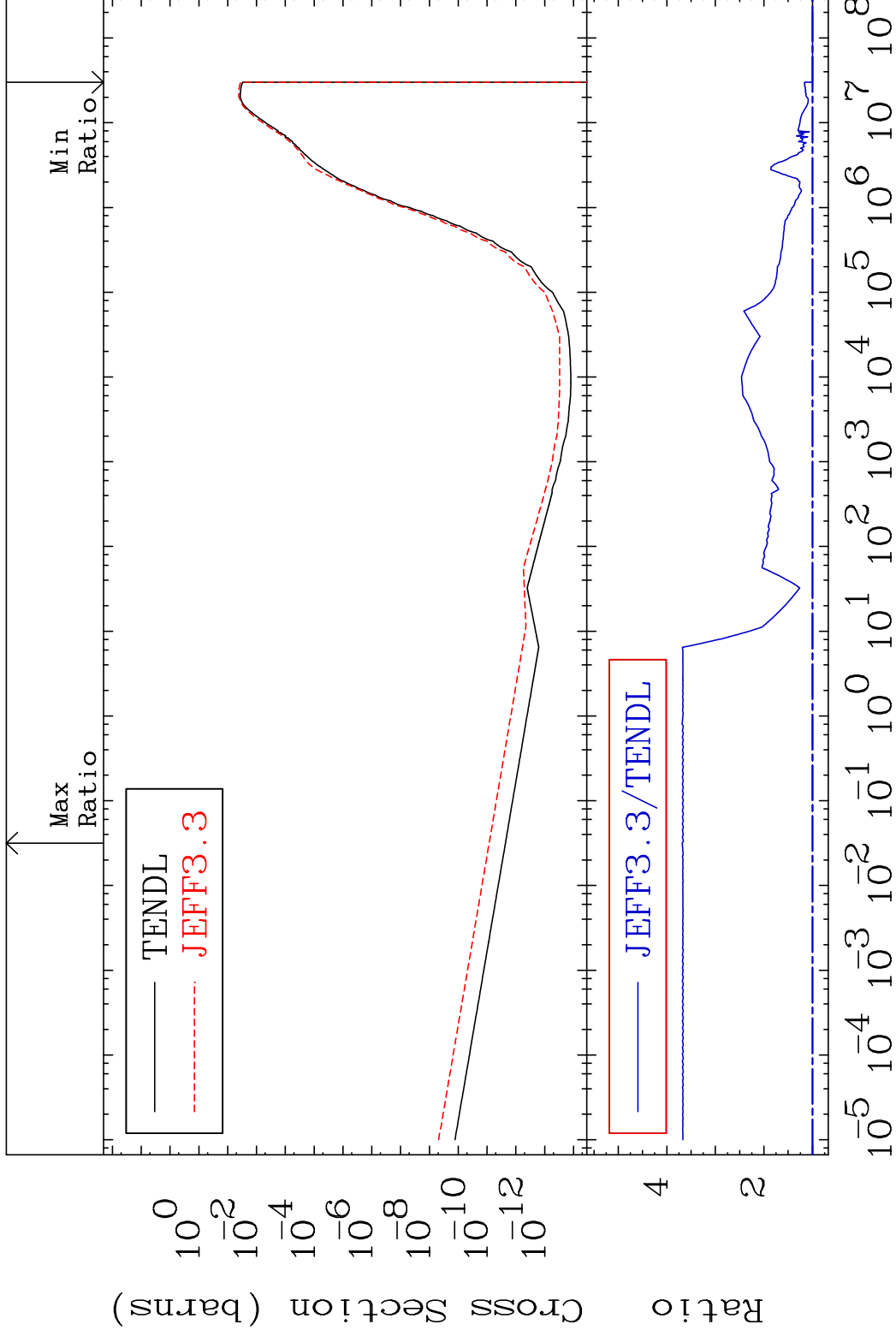
58-Ce-139

MAT 5834

(n, p)

58-Ce-139

Cross Section 0.000 To 268.4 %



52

Incident Energy (eV)

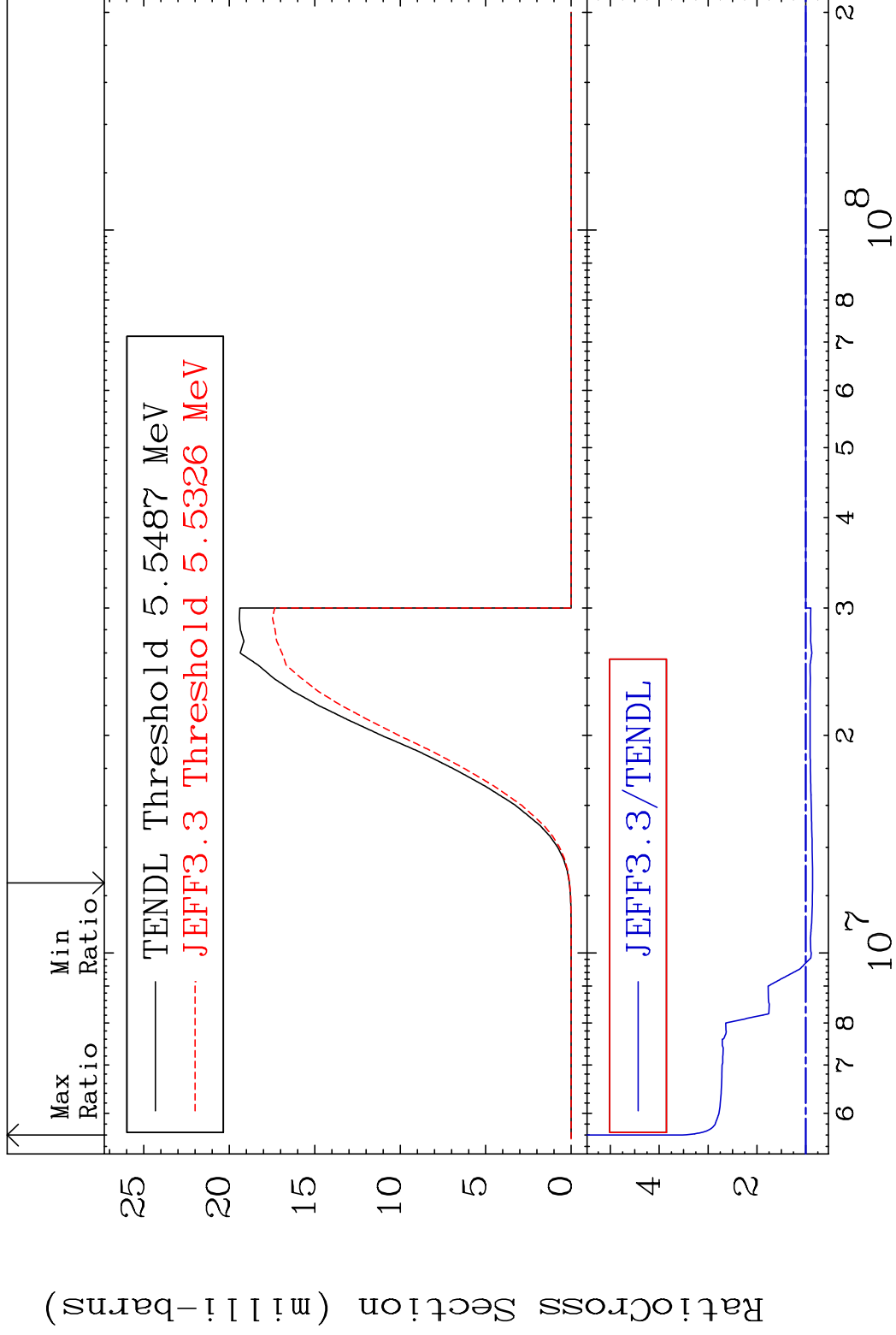
58-Ce-139

MAT 5834

(n, d)

58-Ce-139

Cross Section -14.05 To 252.6 %



53

Incident Energy (eV)

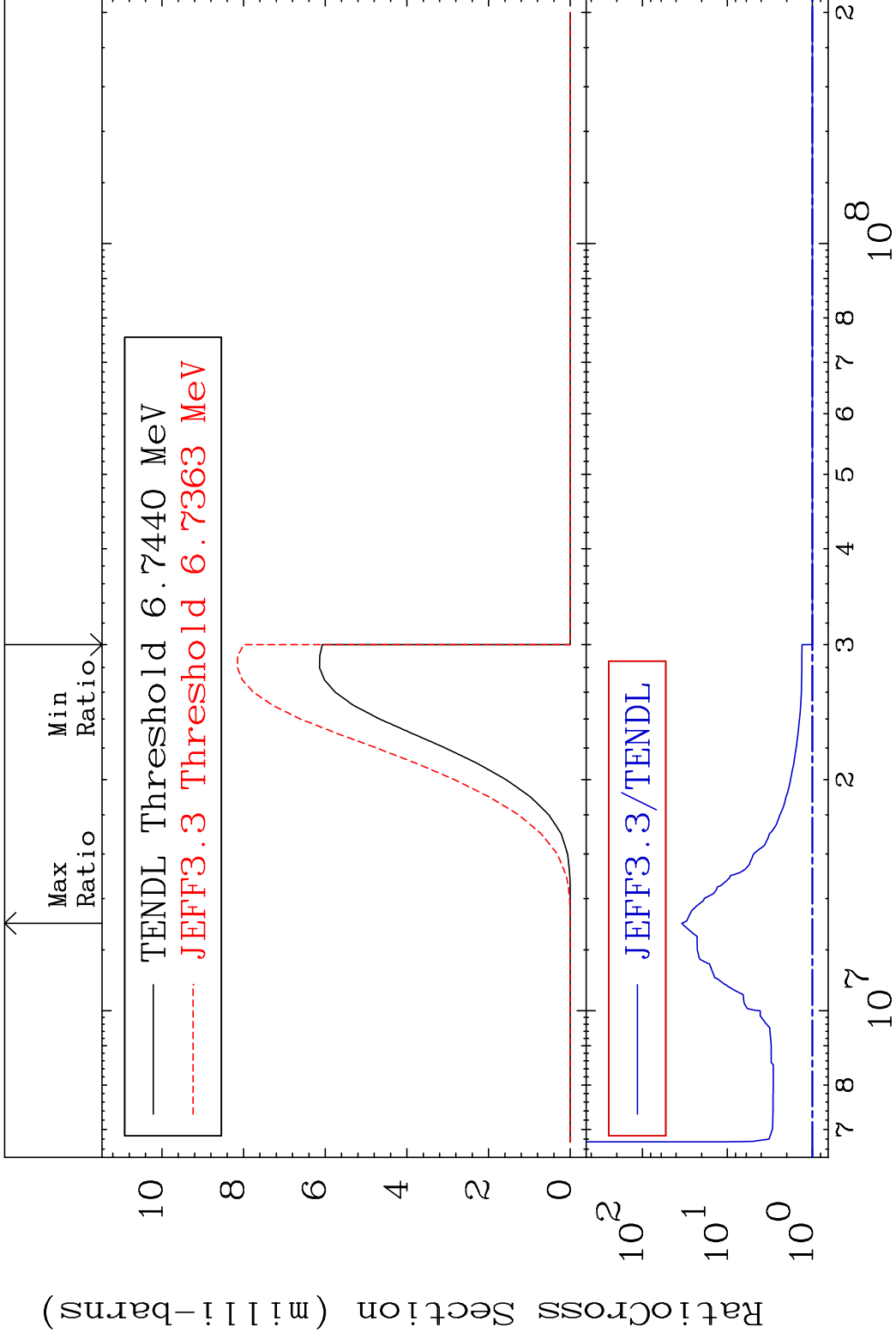
58-Ce-139

MAT 5834

(n, t)

58-Ce-139

Cross Section 0.000 To 3340. %



54

Incident Energy (eV)

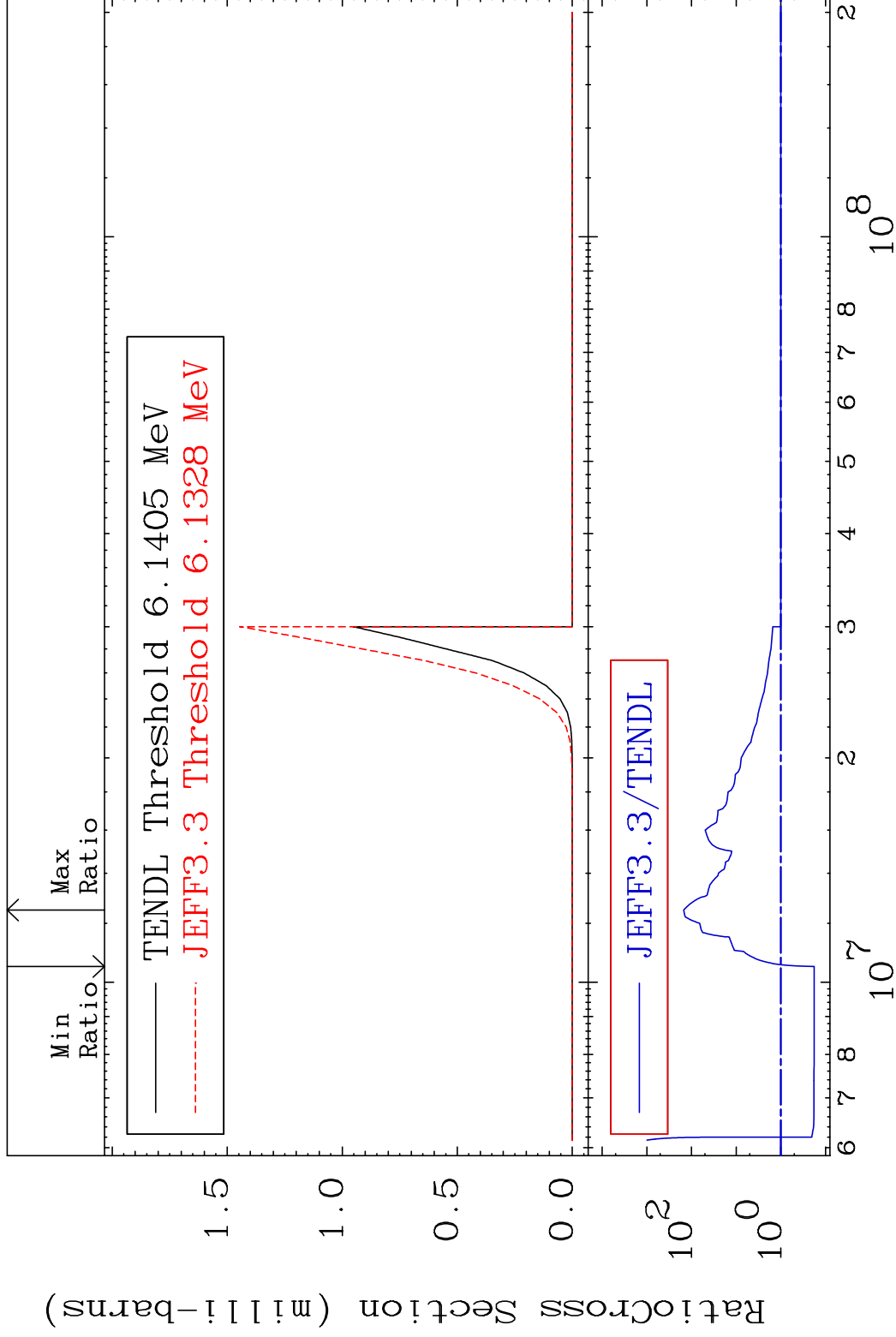
58-Ce-139

MAT 5834

(n, He-3)

58-Ce-139

Cross Section -81.95 To 9999. %



55

Incident Energy (eV)

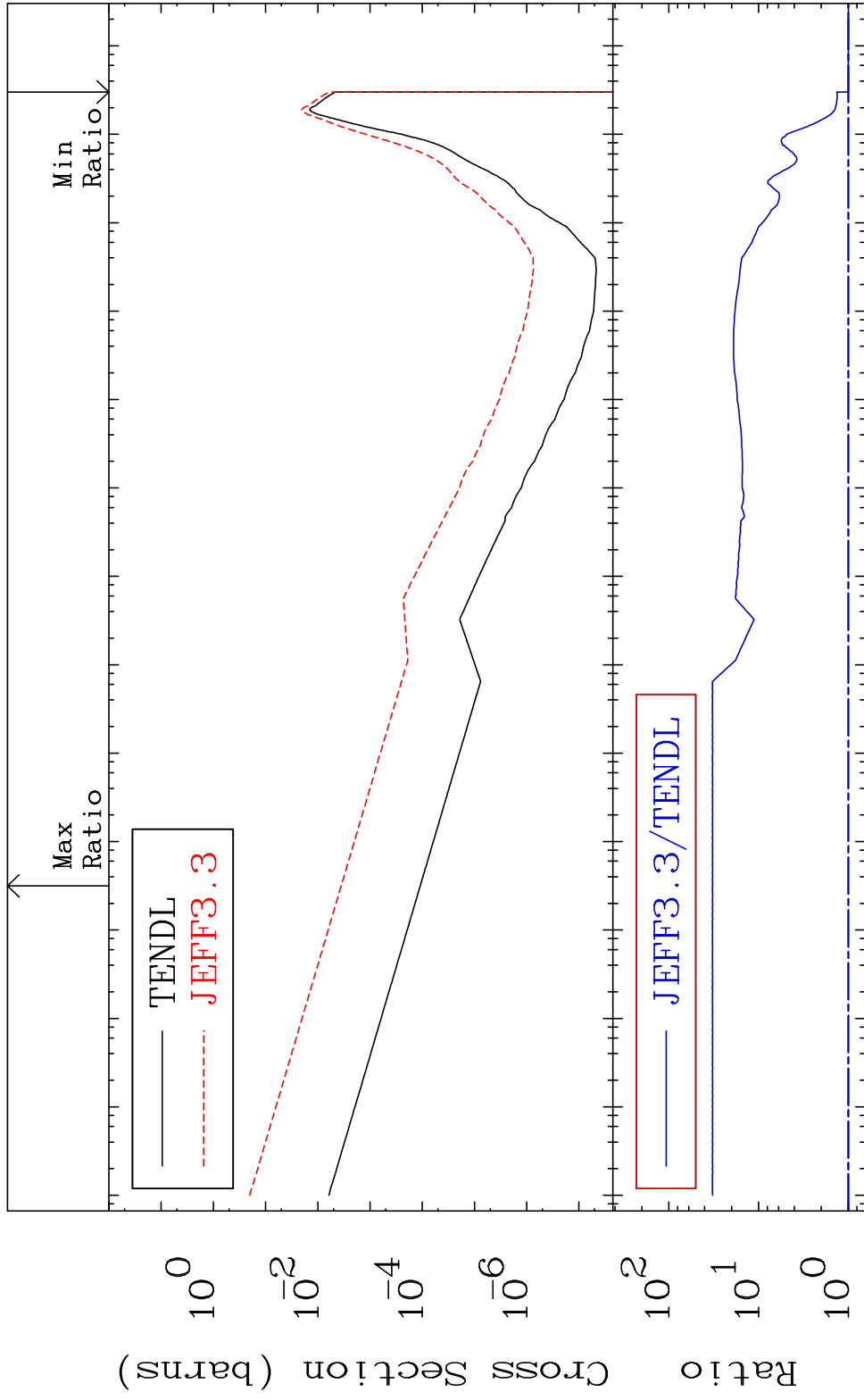
58-Ce-139

MAT 5834

(n, α)

58-Ce-139

Cross Section 0.000 To 3177. %



56

Incident Energy (eV)

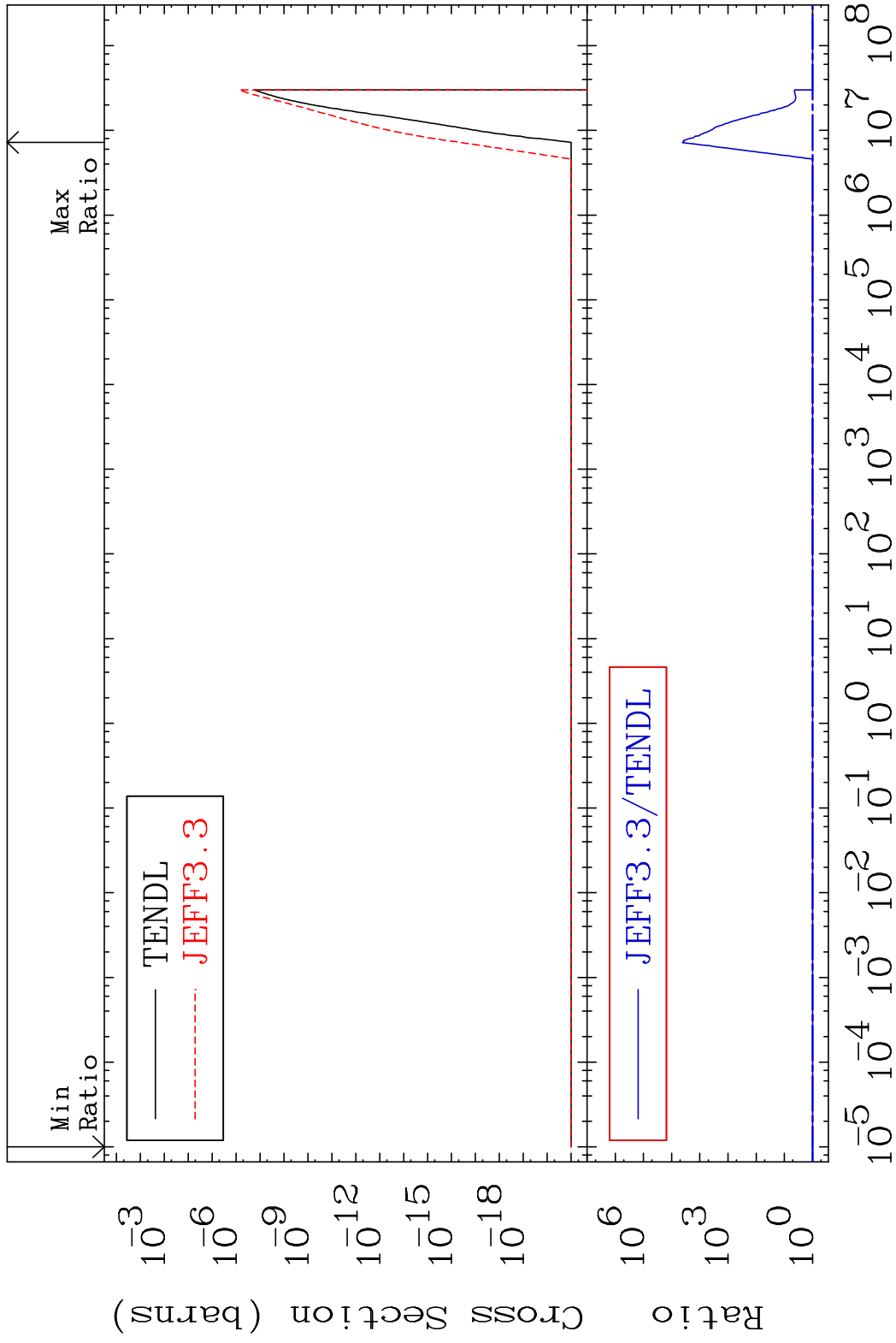
58-Ce-139

MAT 5834

(n,2α)

58-Ce-139

Cross Section 0.000 To 9999. %



57

Incident Energy (eV)

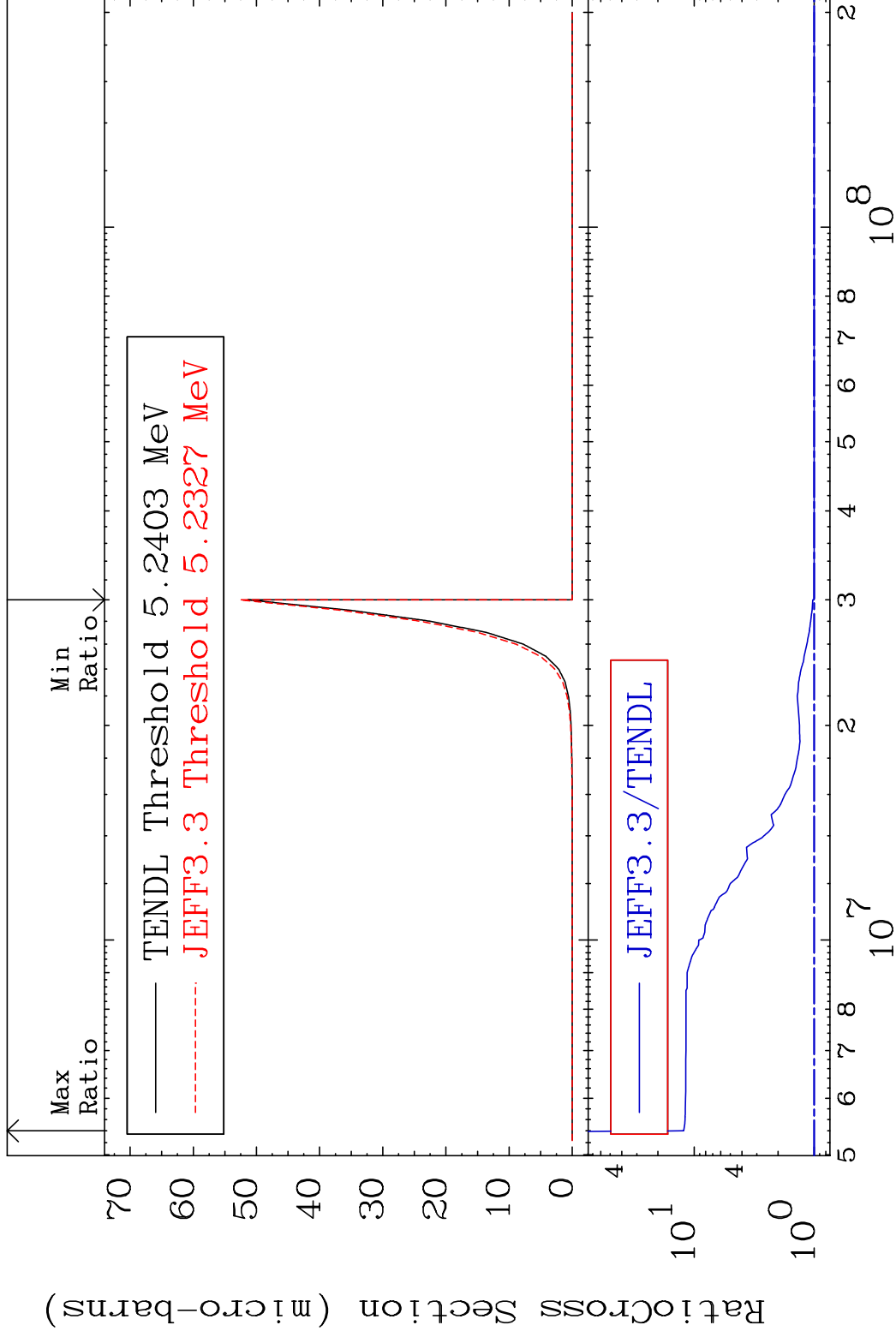
58-Ce-139

MAT 5834

(n,2p)

58-Ce-139

Cross Section 0.000 To 1122. %



58

Incident Energy (eV)

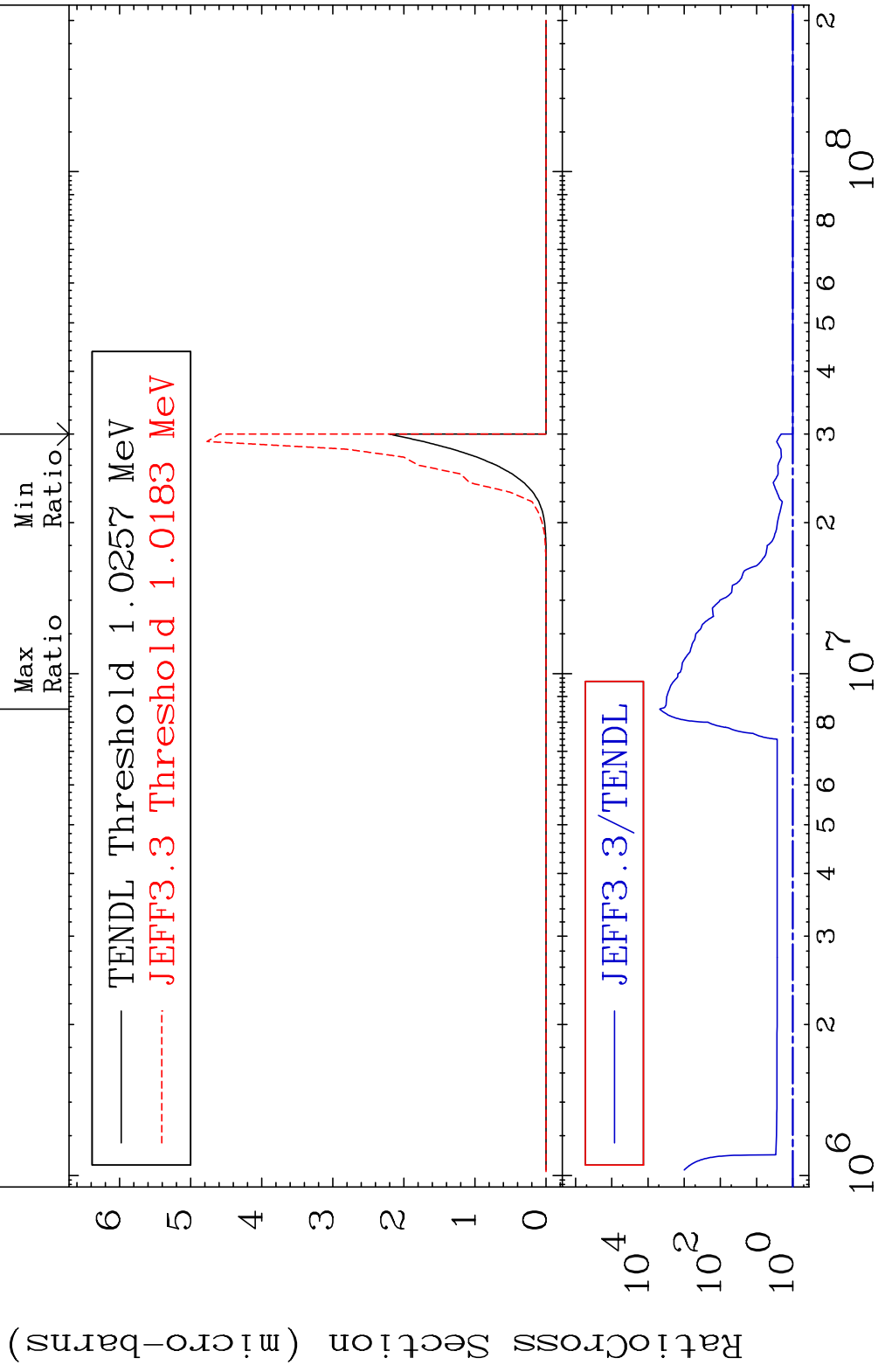
58-Ce-139

MAT 5834

(n,p) α

58-Ce-139

Cross Section 0.000 To 9999. %



59

Incident Energy (eV)

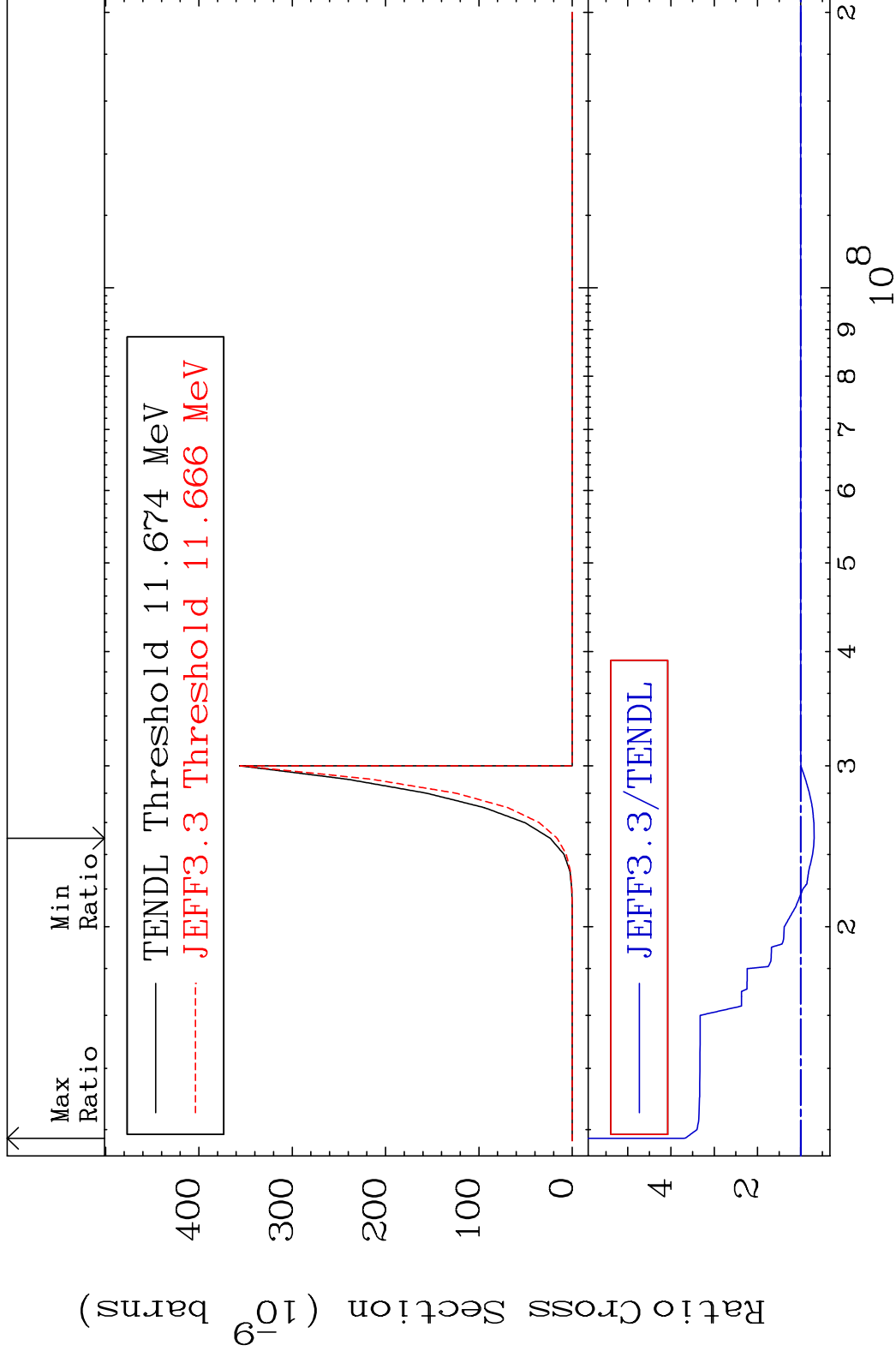
58-Ce-139

MAT 5834

(n,p) d

58-Ce-139

Cross Section -30.90 To 270.7 %



60

Incident Energy (eV)

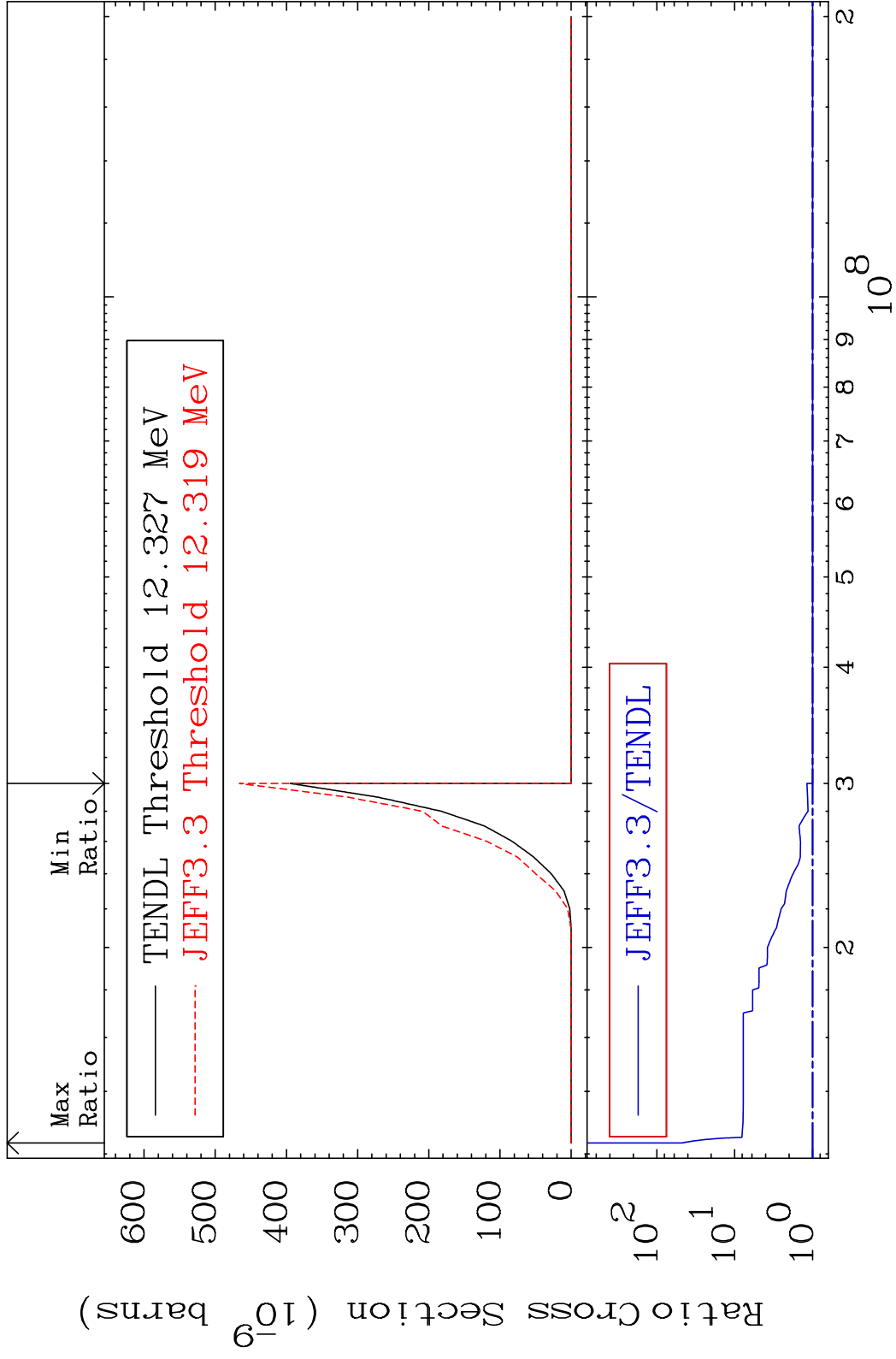
58-Ce-139

MAT 5834

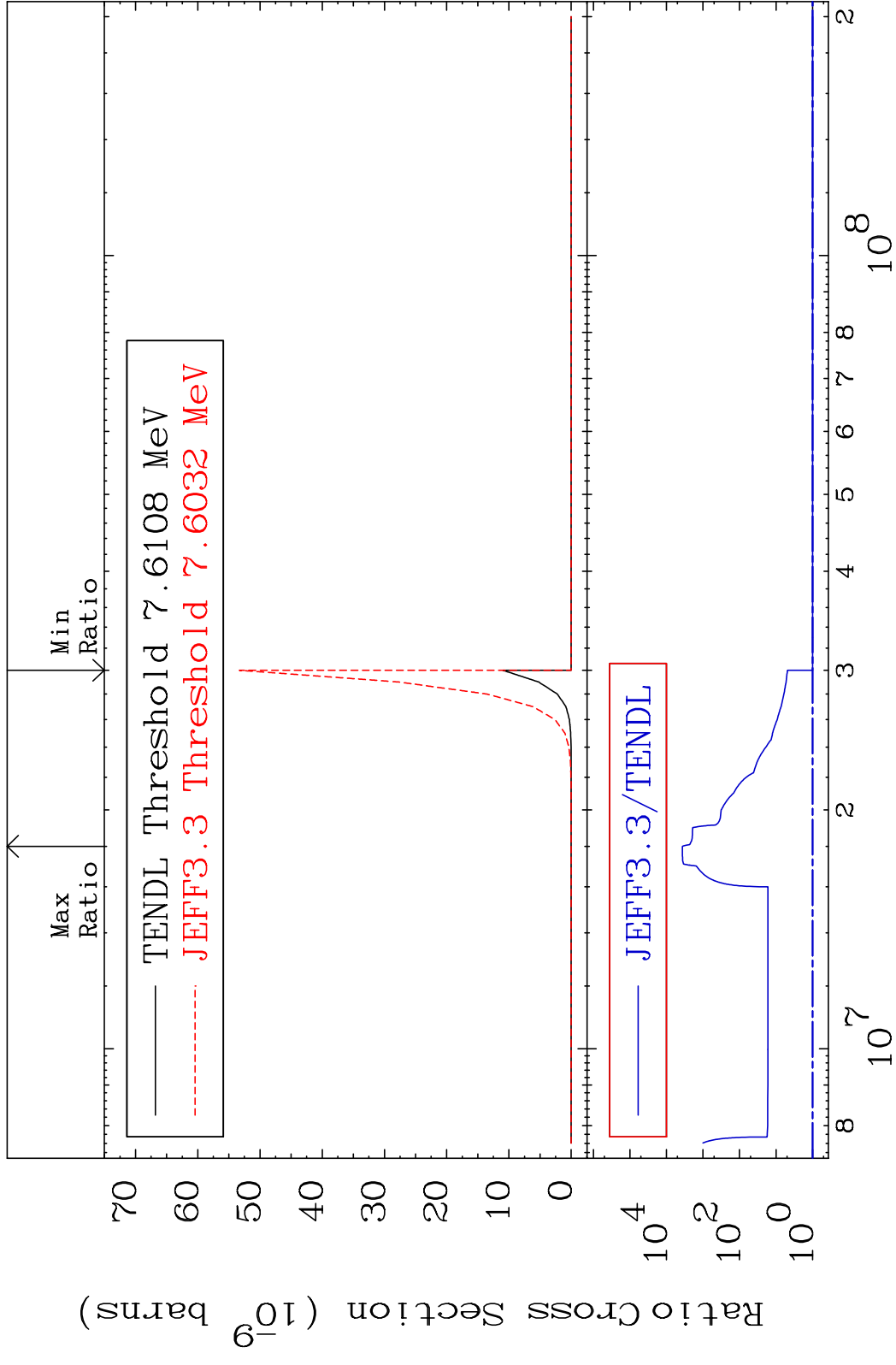
(n,p) t

58-Ce-139

Cross Section 0.000 To 4597. %



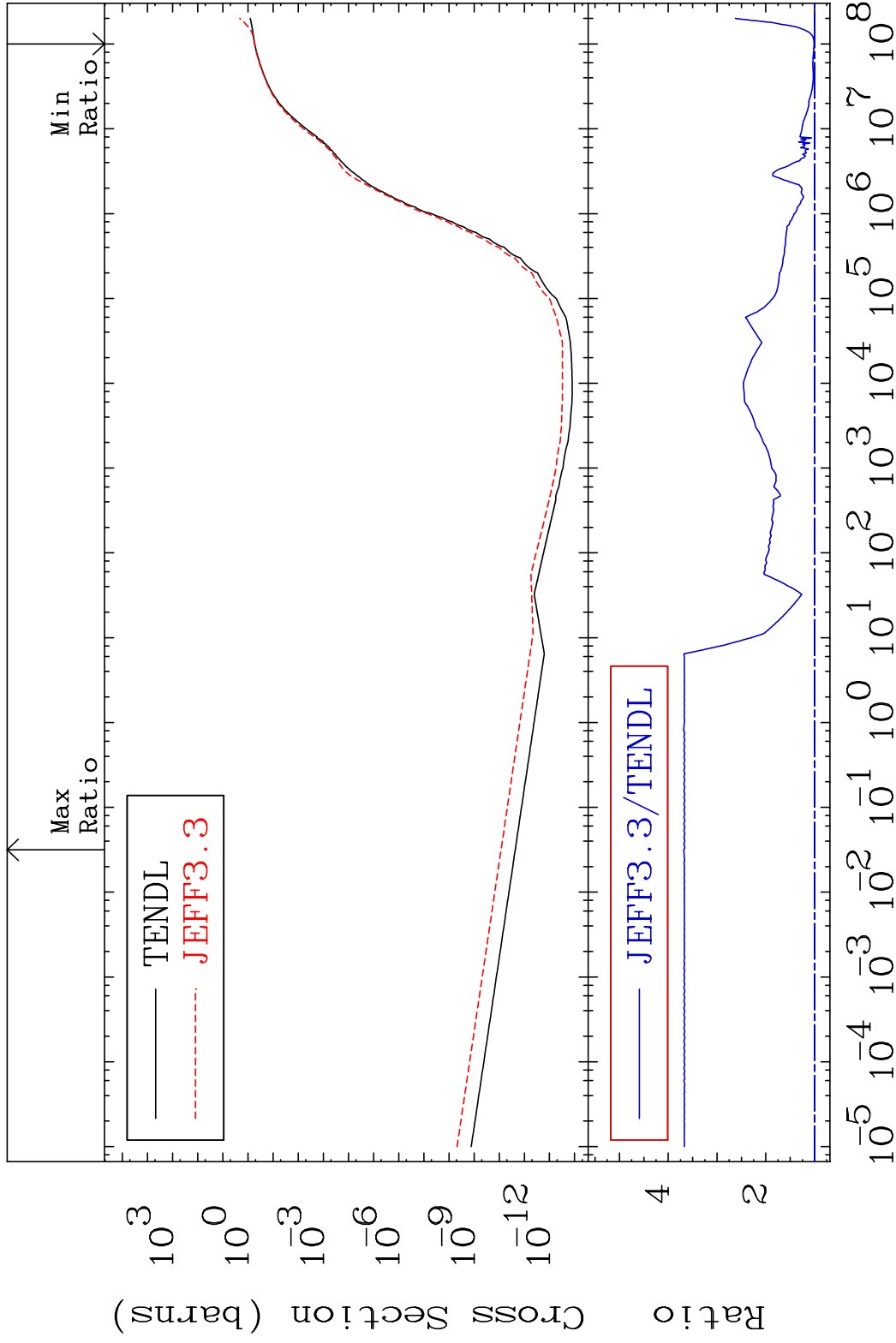
MAT 5834 (n,d) α 58-Ce-139
 Cross Section 0.000 To 9999. %



MAT 5834

Hydrogen Production 58-Ce-139

Cross Section 1.045 To 268.4 %



63

Incident Energy (eV)

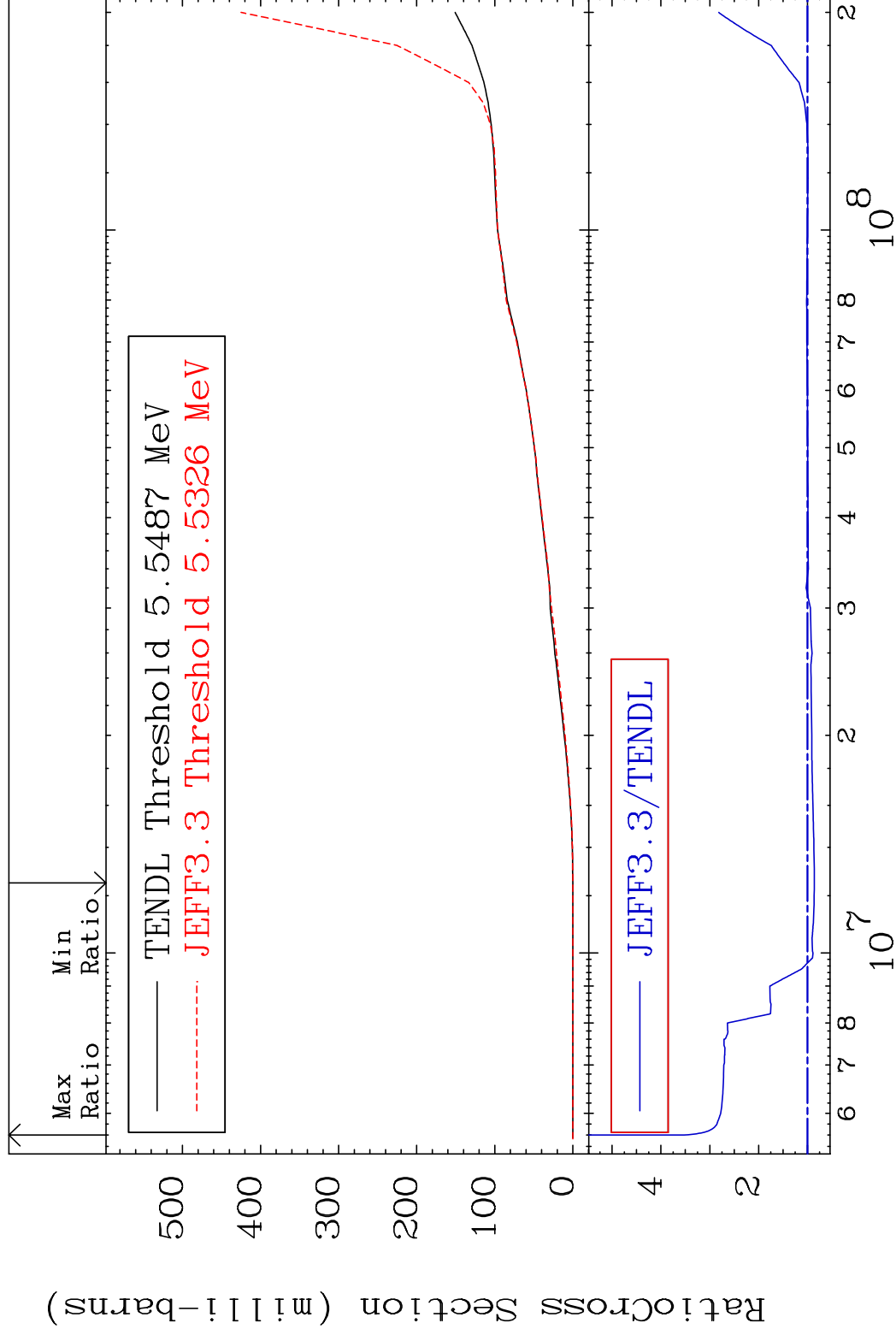
58-Ce-139

MAT 5834

Deuterium Production

58-Ce-139

Cross Section -14.05 To 252.6 %



64

Incident Energy (eV)

58-Ce-139

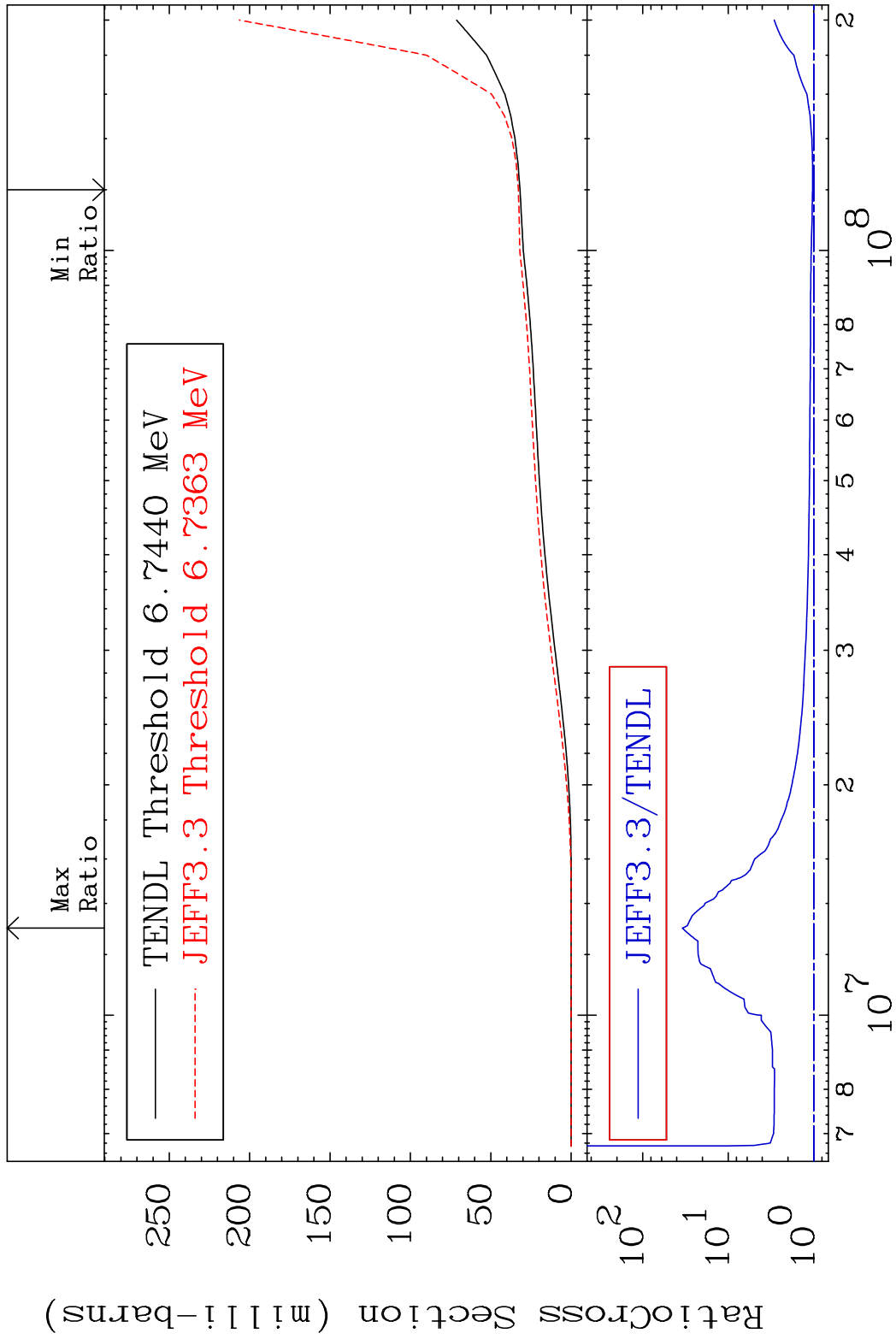
MAT 5834

Tritium Production

58-Ce-139

Cross Section 3.333

To 3340. %



65

Incident Energy (eV)

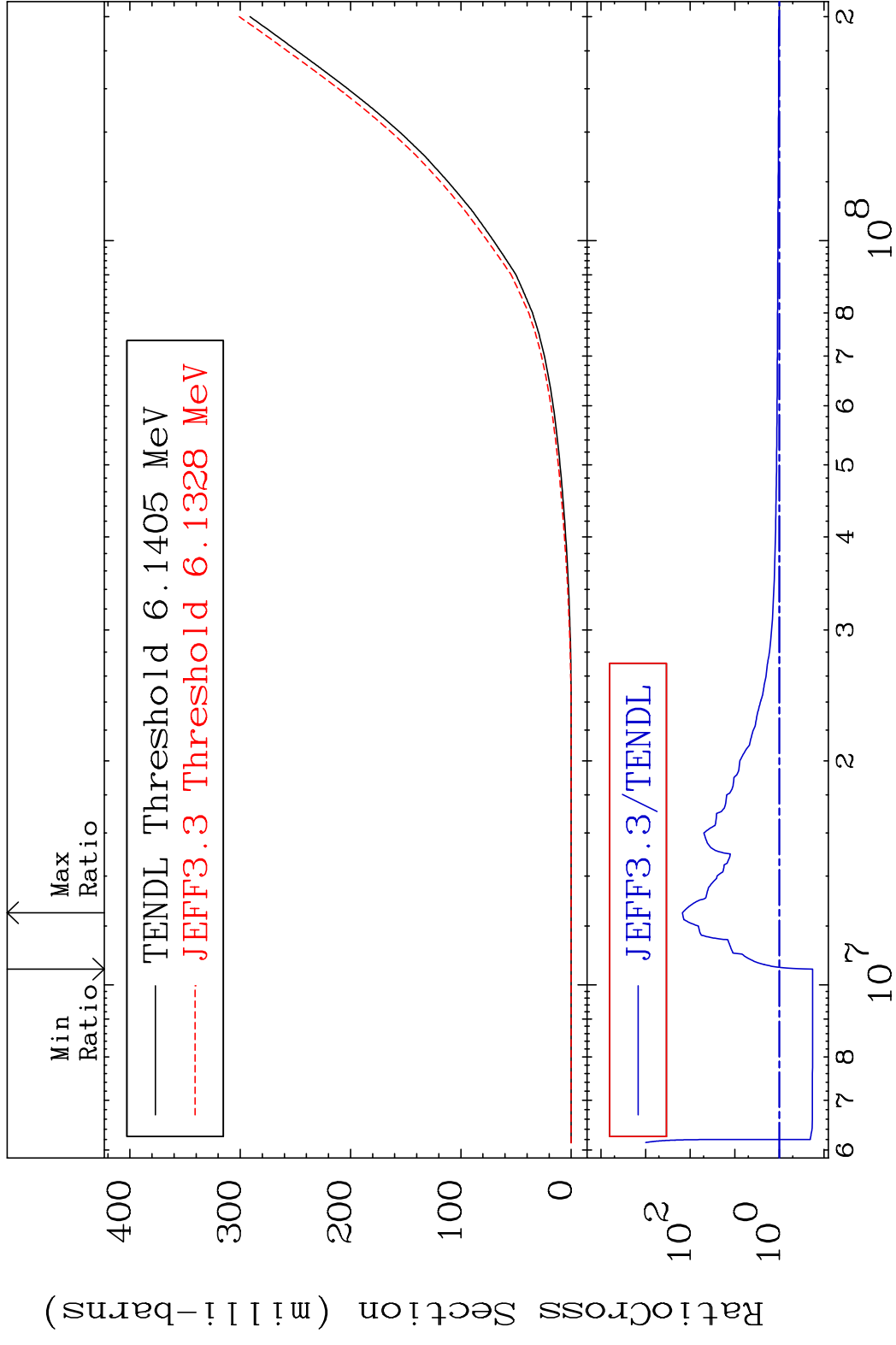
58-Ce-139

MAT 5834

He-3 Production

58-Ce-139

Cross Section -81.95 To 9999. %



66

Incident Energy (eV)

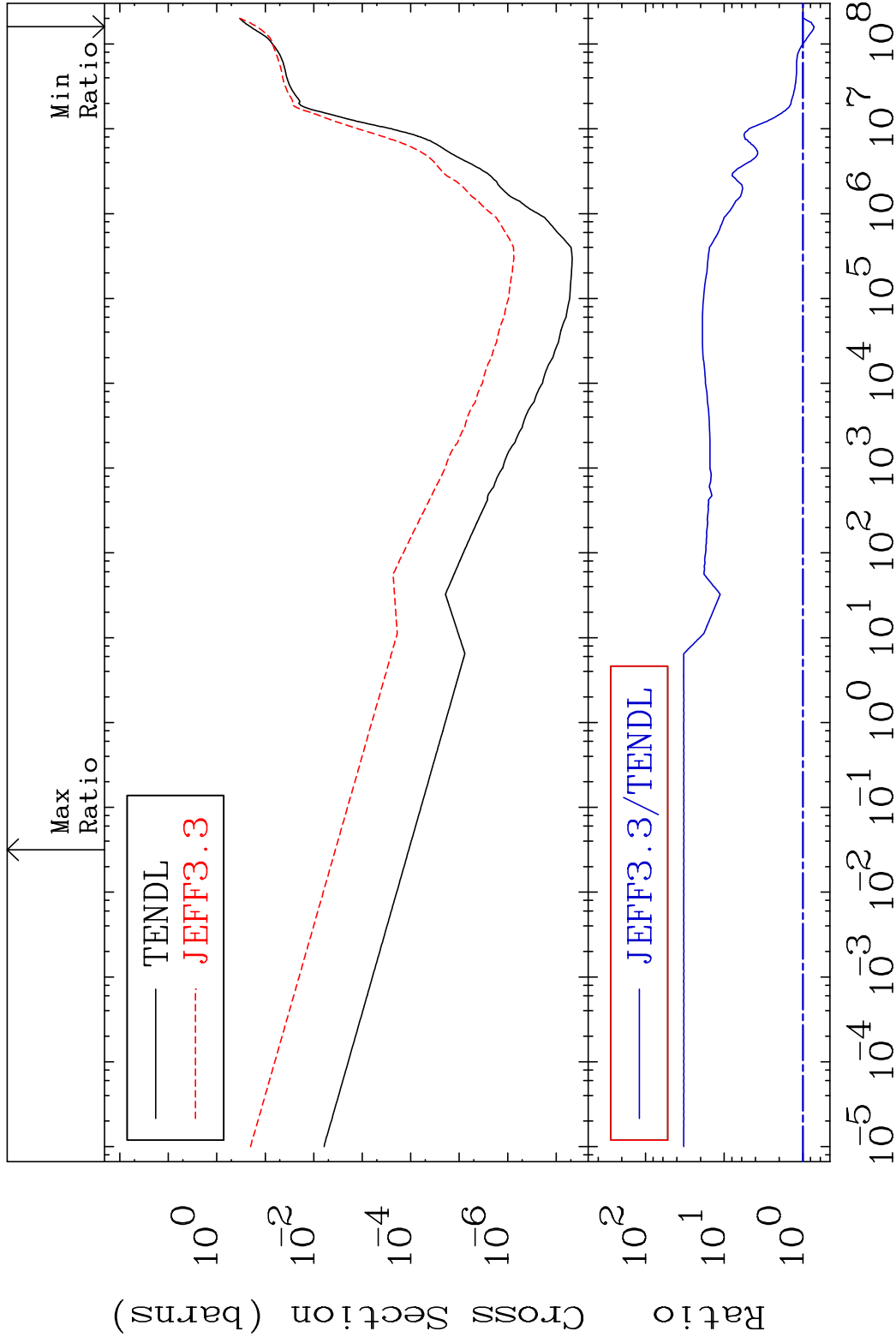
58-Ce-139

MAT 5834

He-4 Production

58-Ce-139

Cross Section -28.07 To 3177. %

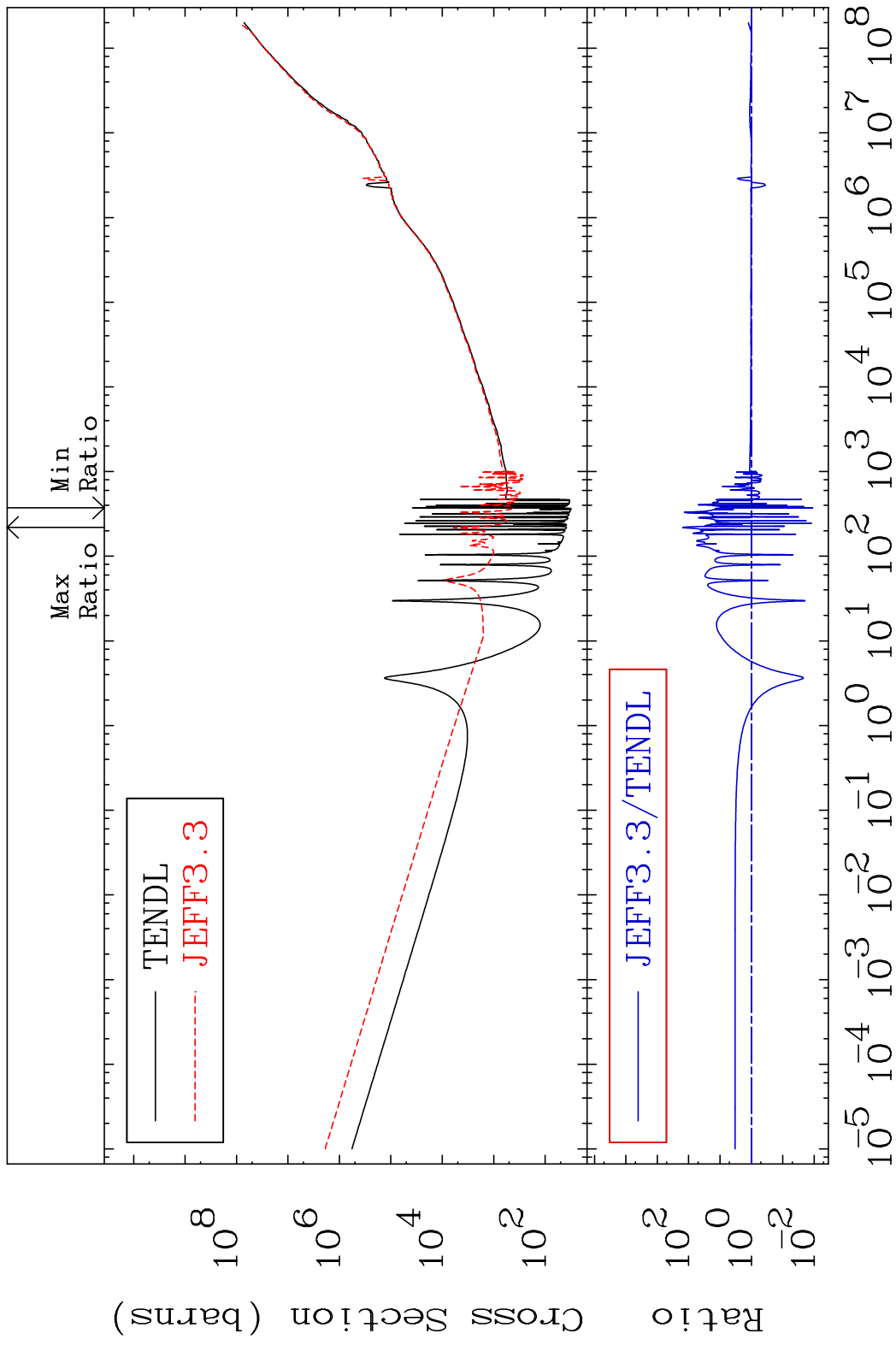


67

Incident Energy (eV)

58-Ce-139

MAT 5834 Kerma total (eV-barns) 58-Ce-139
 Cross Section -98.88 To 9999. %



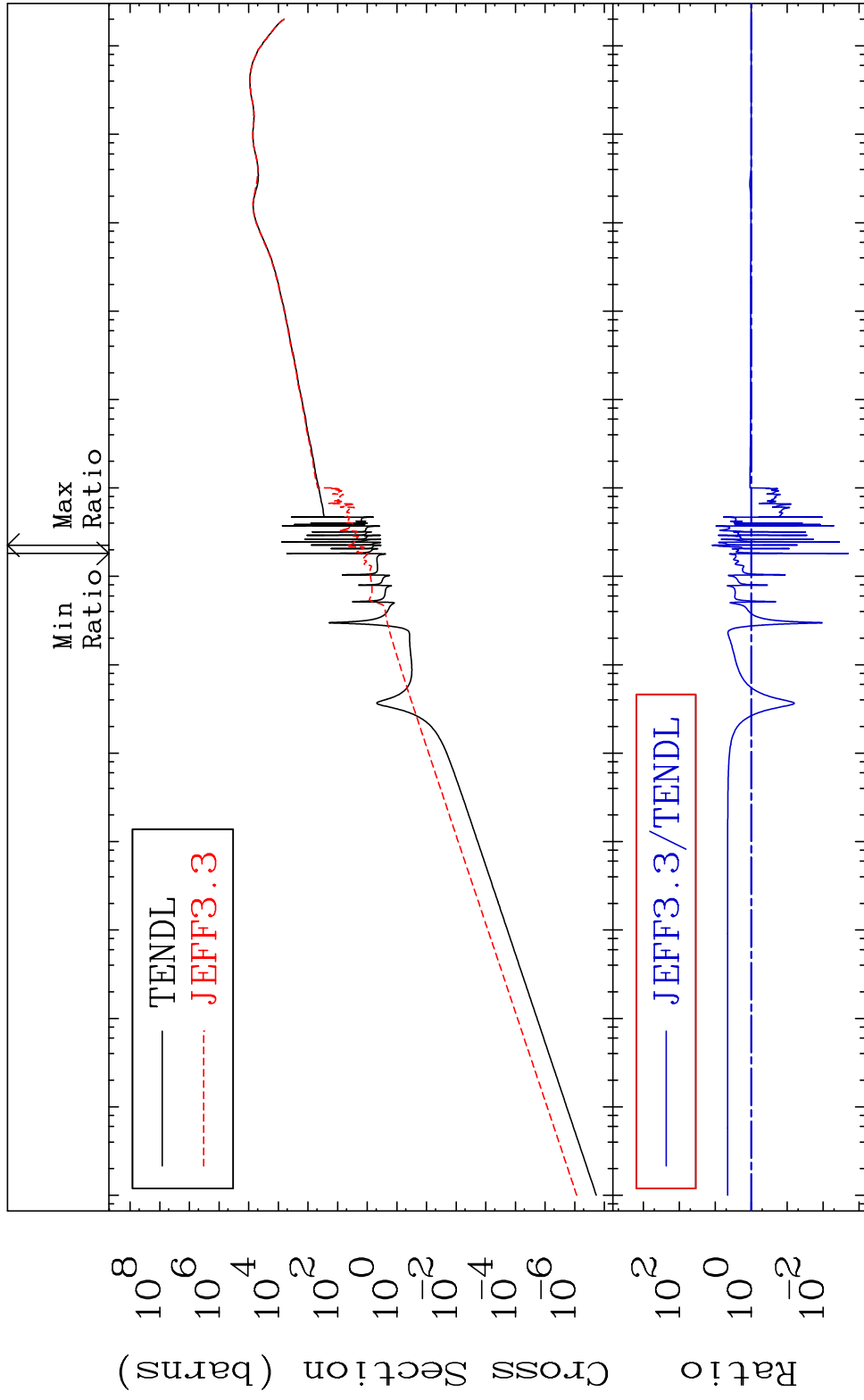
68 Incident Energy (eV) 58-Ce-139

MAT 5834

Kerma elastic

58-Ce-139

Cross Section -99.80 To 1110. %

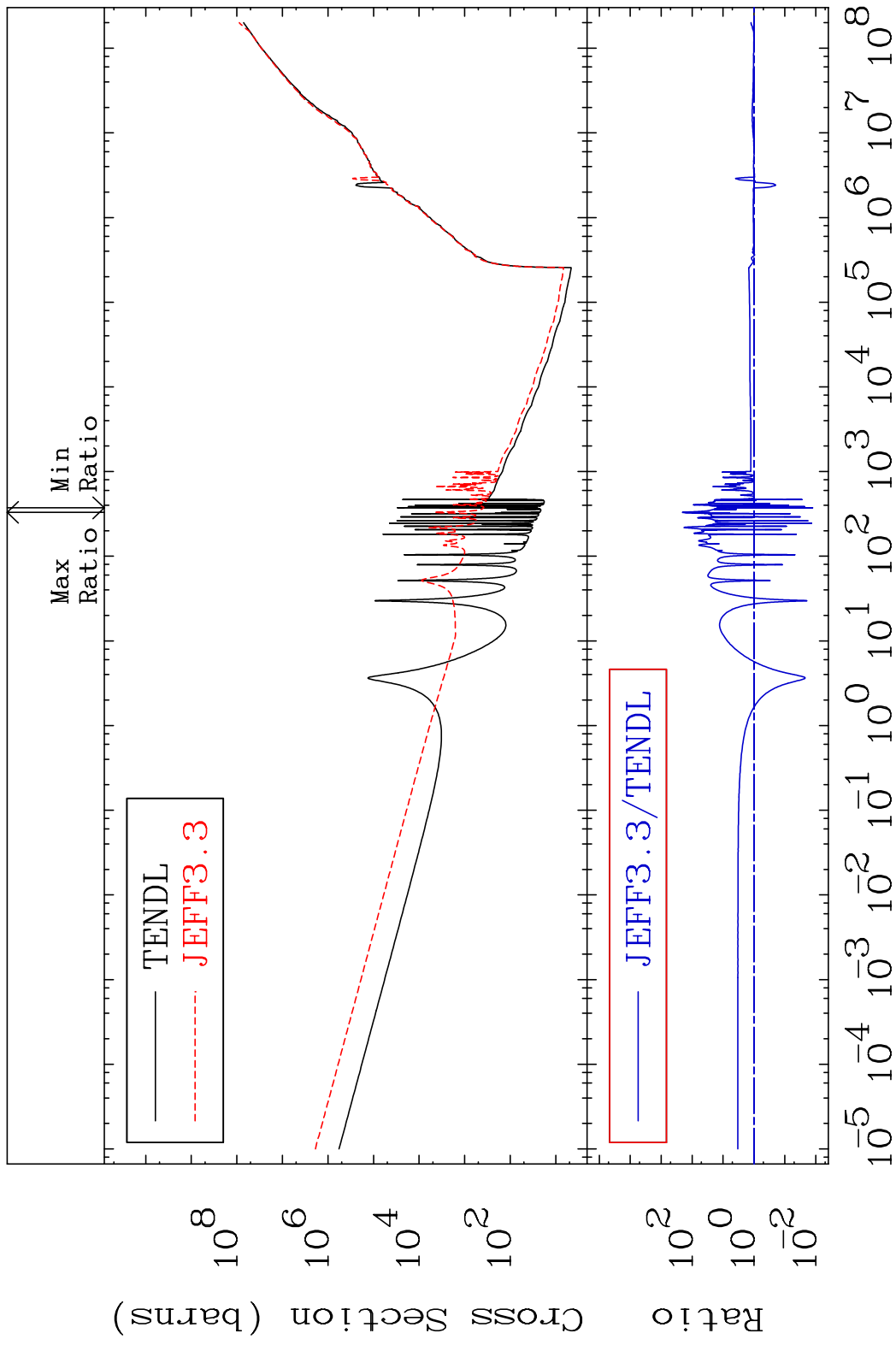


69

Incident Energy (eV)

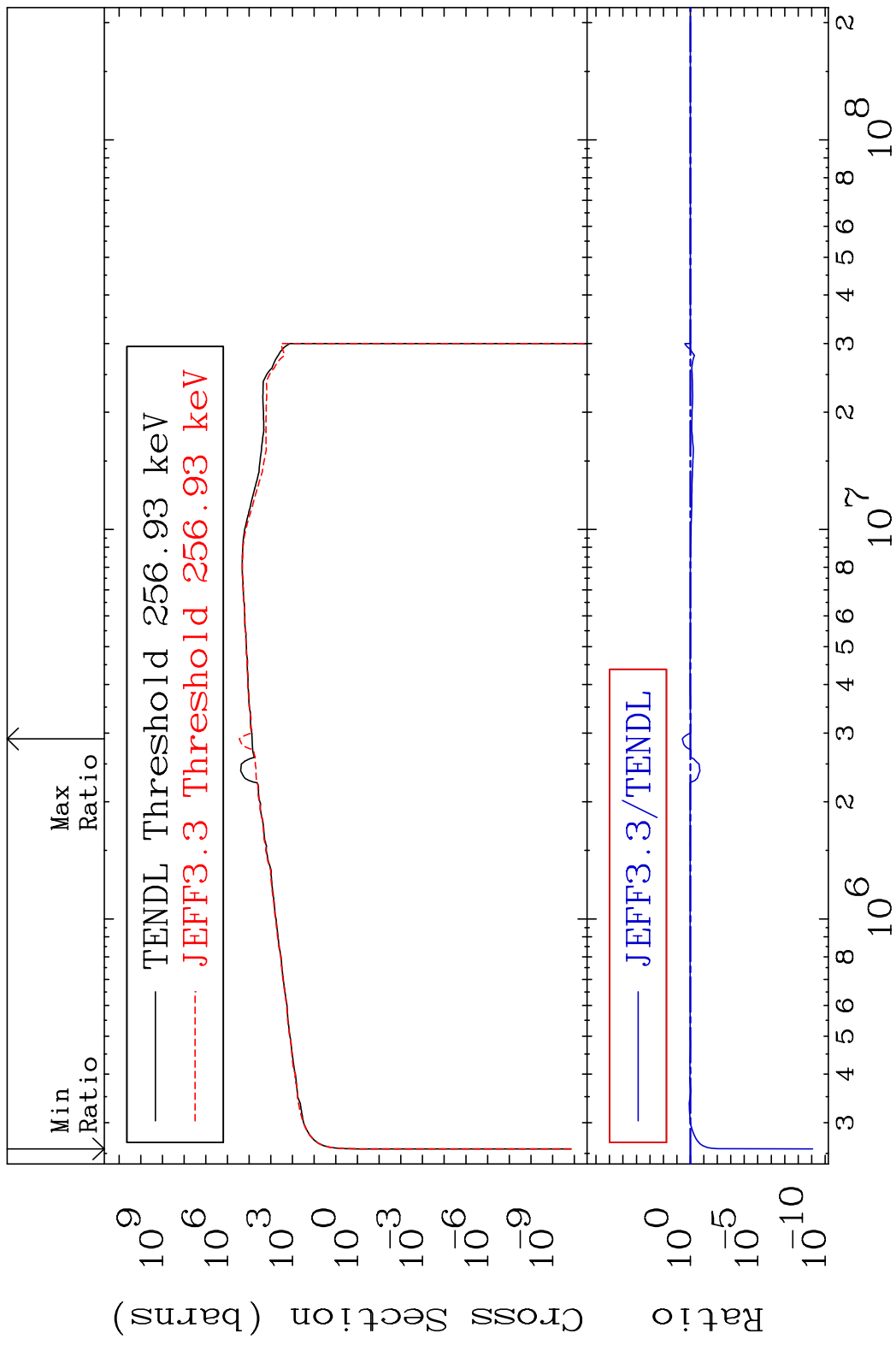
58-Ce-139

MAT 5834 Kerma non-elastic (all but mt2) 58-Ce-139
 Cross Section -98.72 To 9999. %

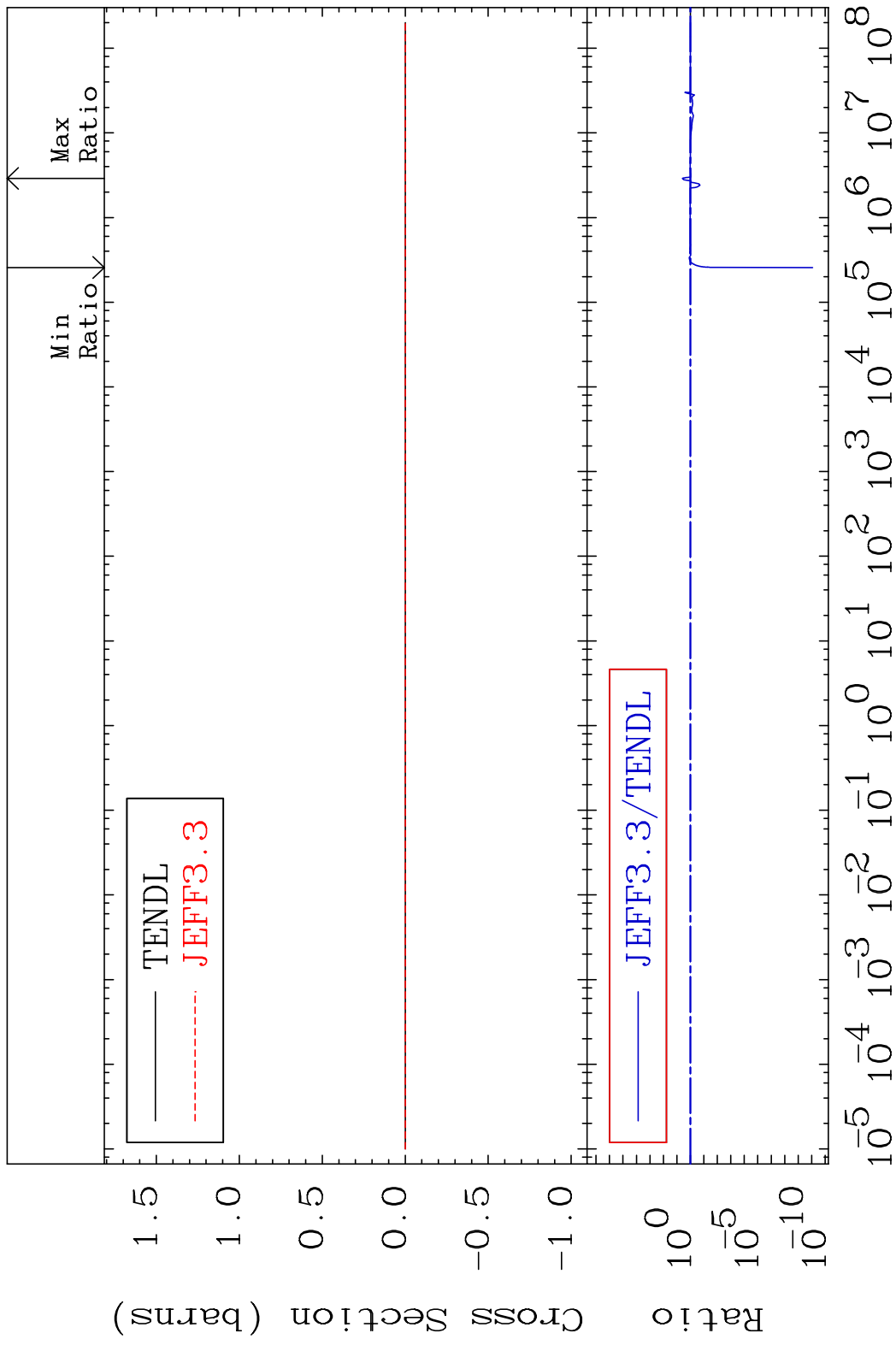


70 Incident Energy (eV) 58-Ce-139

MAT 5834 Kerma inelastic (mt51-91) 58-Ce-139
 Cross Section -100.0 To 292.0 %

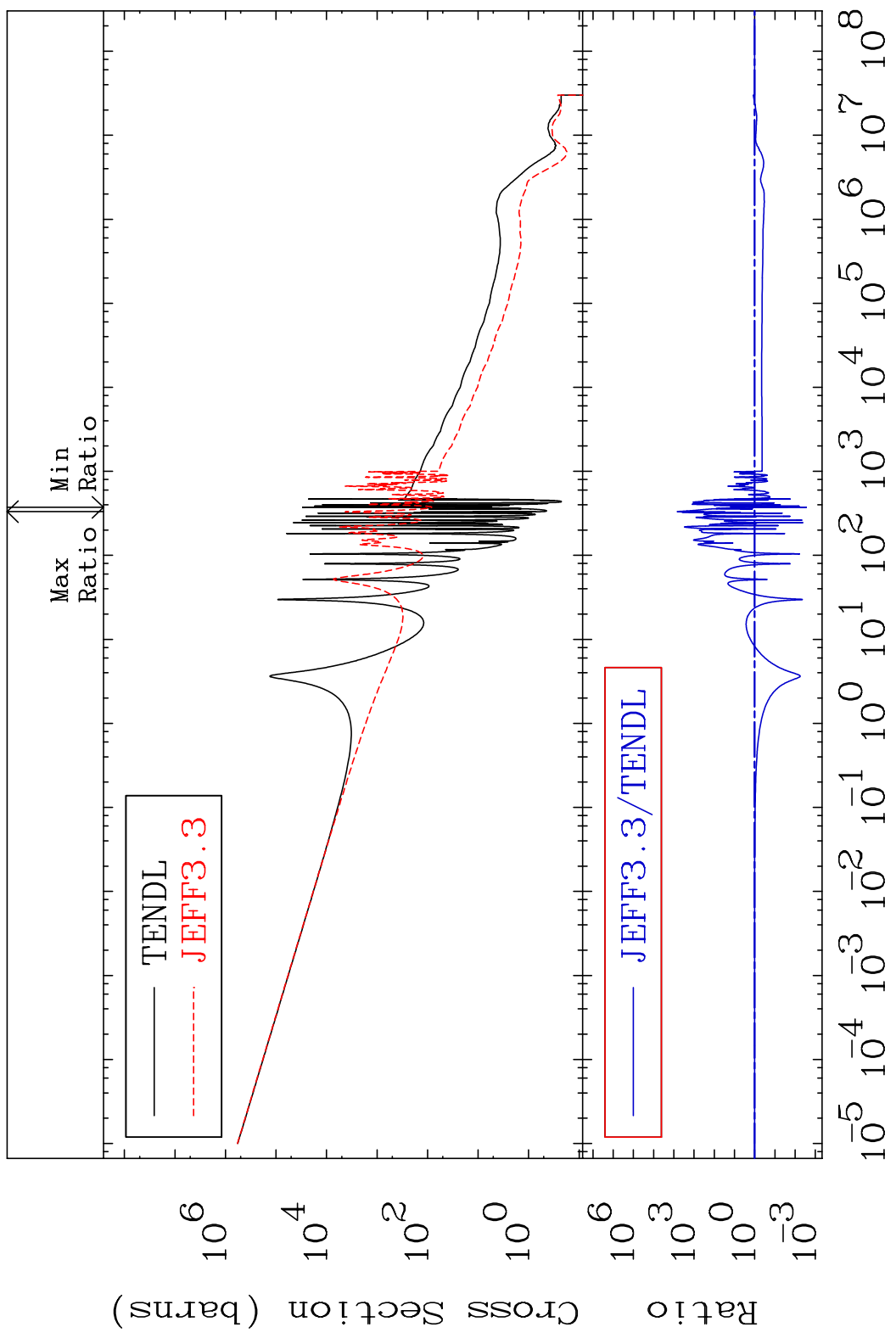


MAT 5834 Kerma fission (mt18 or mt19-20-21-38) 58-Ce-139
 Cross Section -100.0 To 292.0 %



MAT 5834

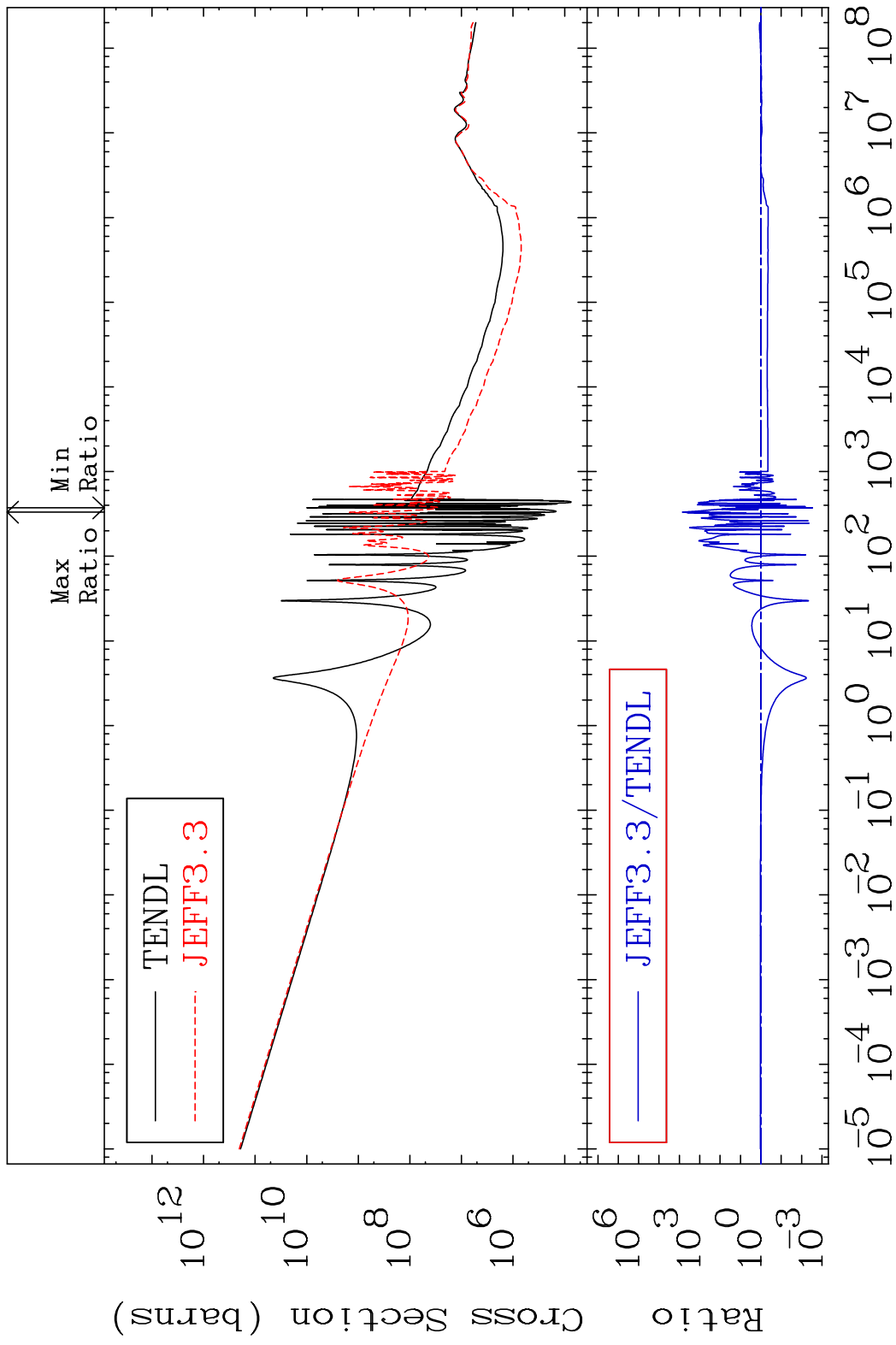
Kerma capture (mt102) 58-Ce-139
Cross Section -99.72 To 9999. %



73

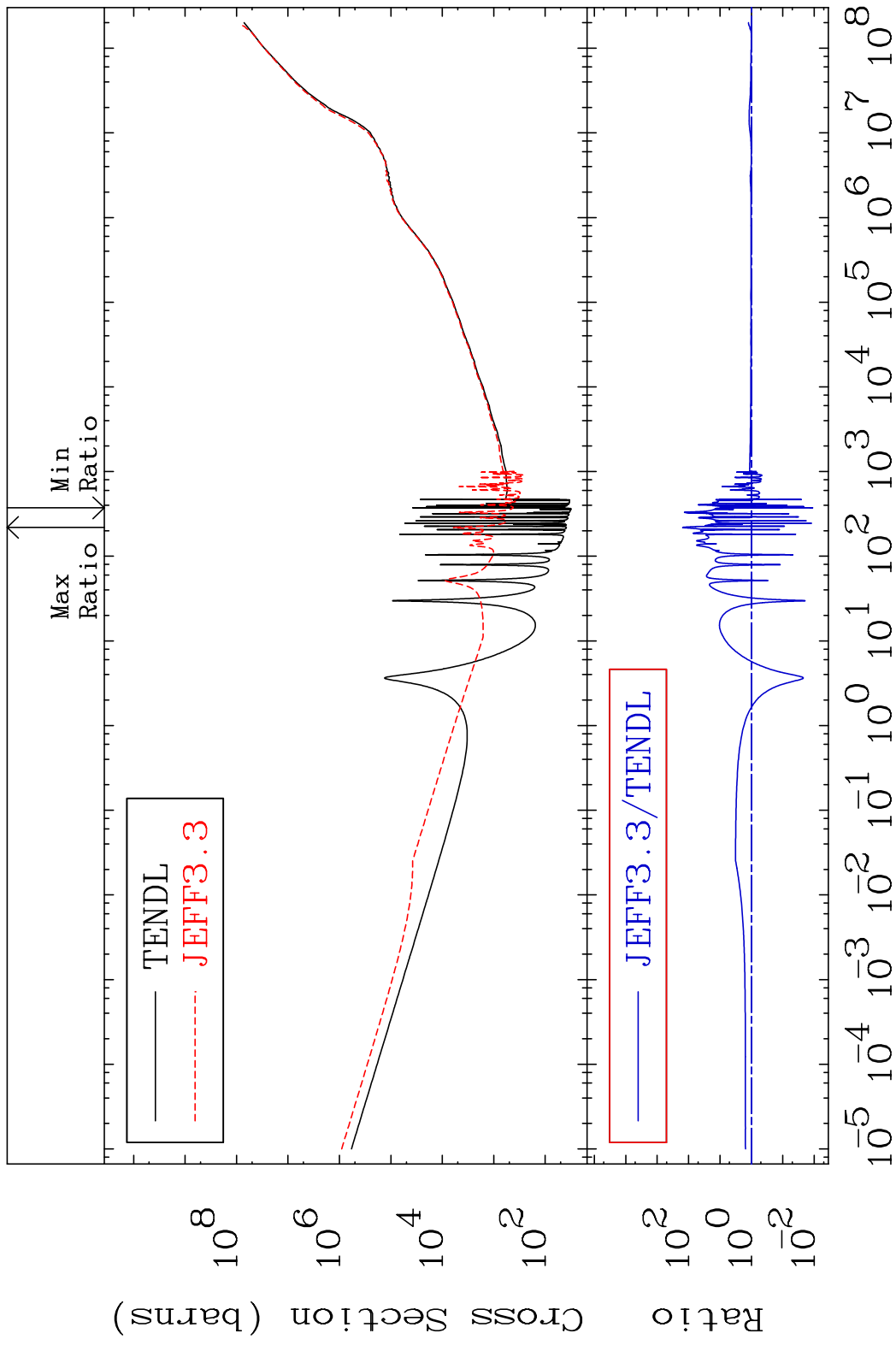
Incident Energy (eV) 58-Ce-139

MAT 5834 Total photon (eV-barns) 58-Ce-139
 Cross Section -99.71 To 9999. %



74 Incident Energy (eV) 58-Ce-139

MAT 5834 Total kinematic kerma (high limit) 58-Ce-139
 Cross Section -98.87 To 9999. %

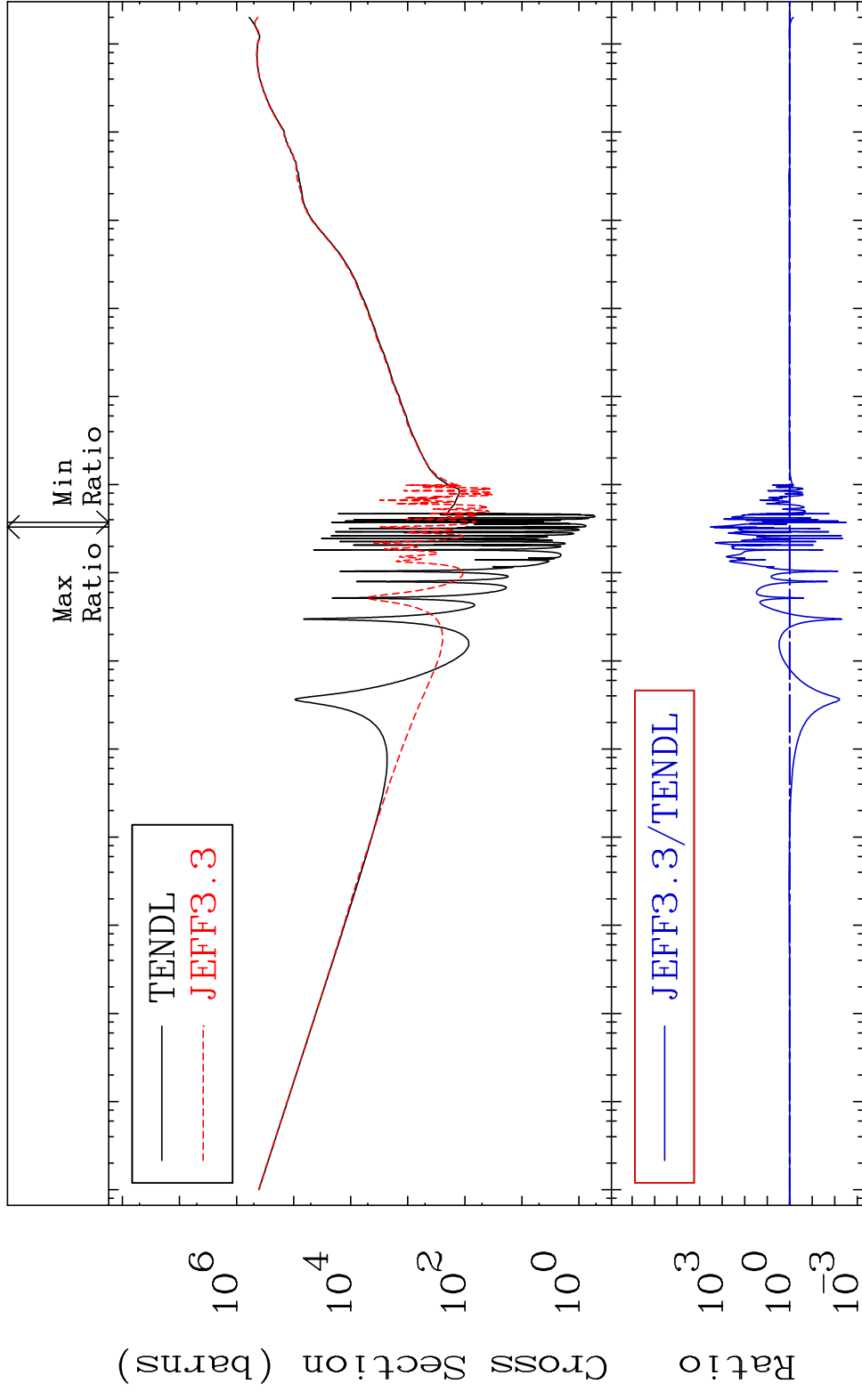


MAT 5834

Dpa total (eV-barns)

58-Ce-139

Cross Section -99.70 To 9999. %



76

Incident Energy (eV)

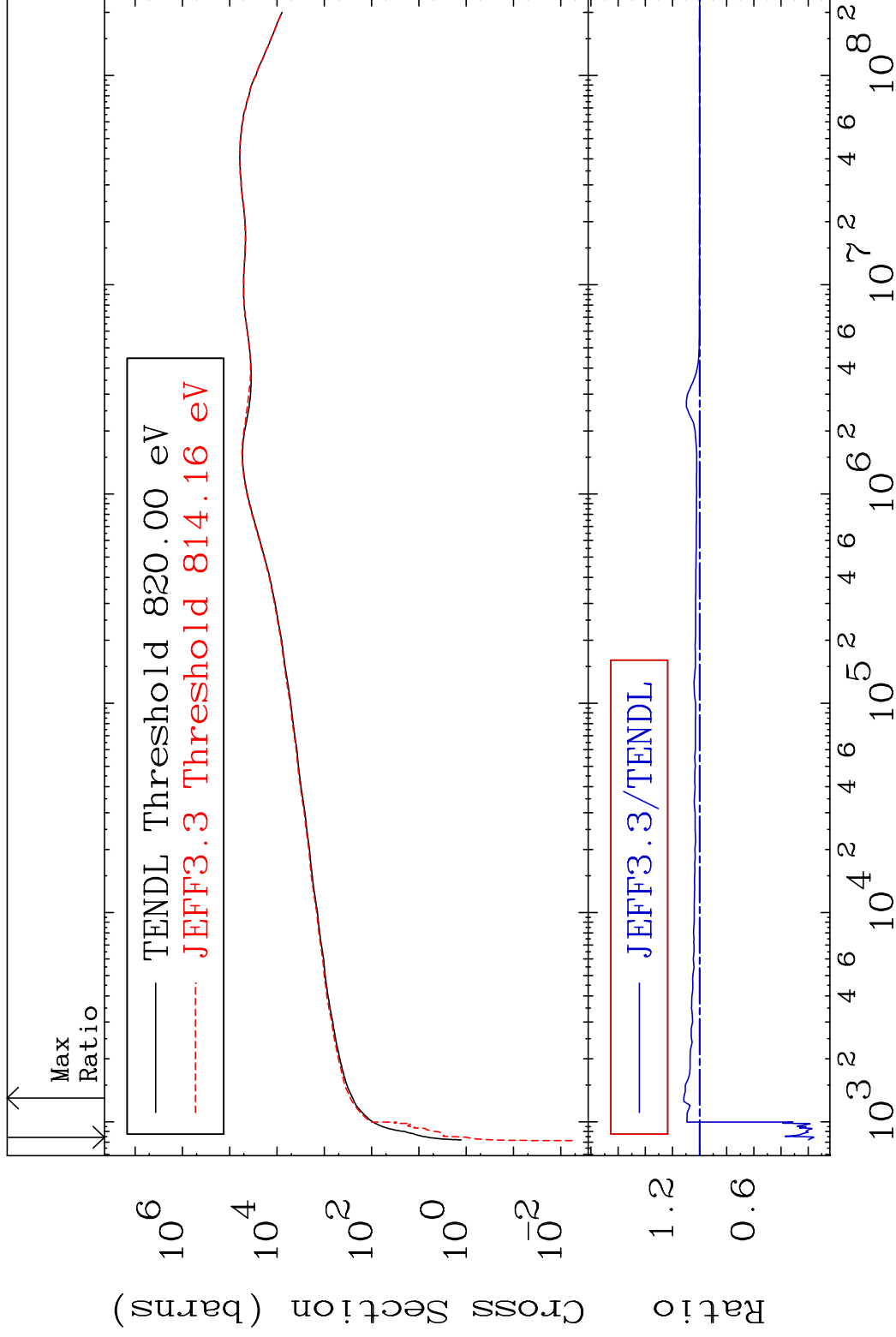
58-Ce-139

MAT 5834

Dpa elastic (mt2)

58-Ce-139

Cross Section -84.41 To 11.73 %

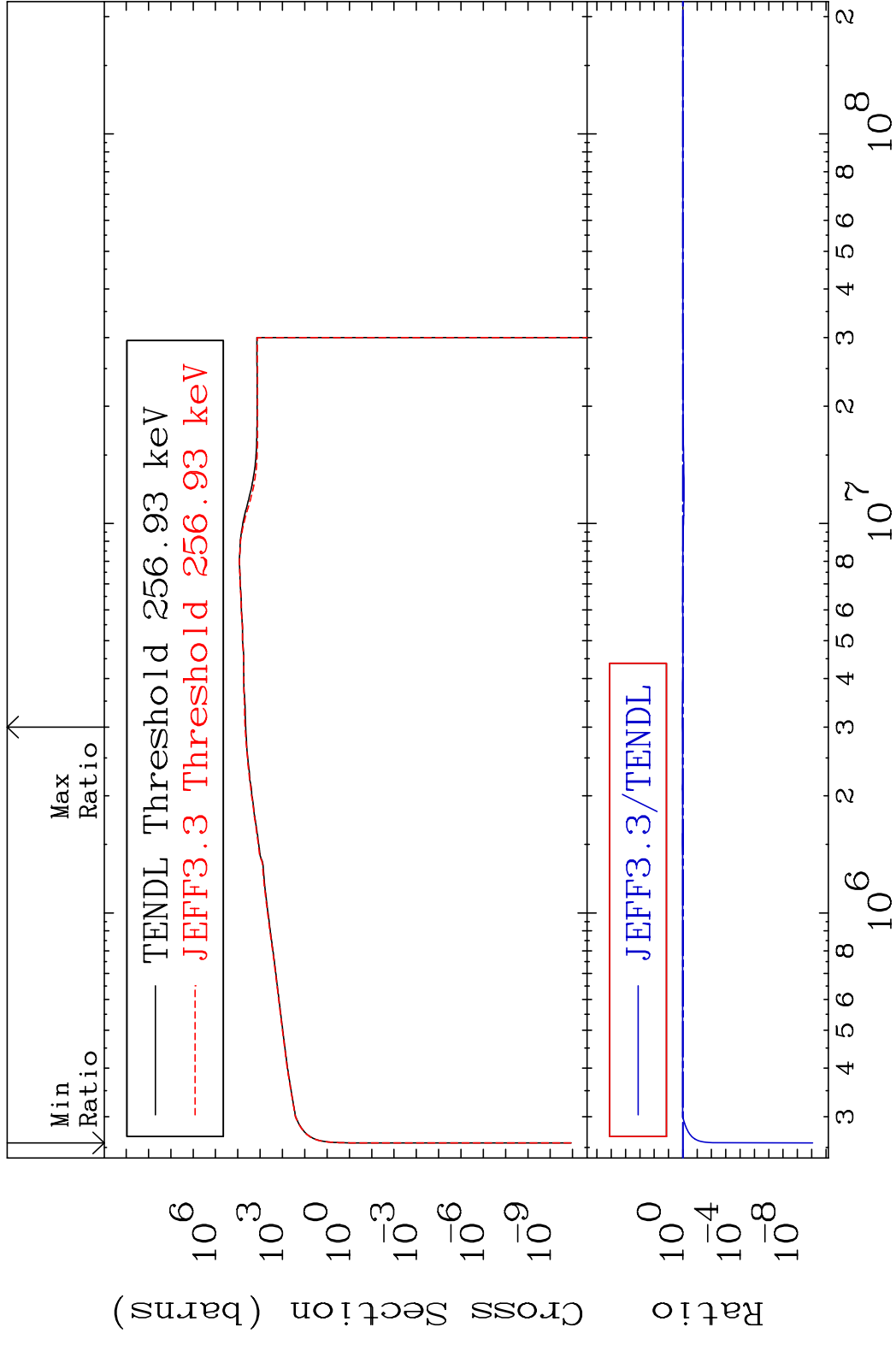


77

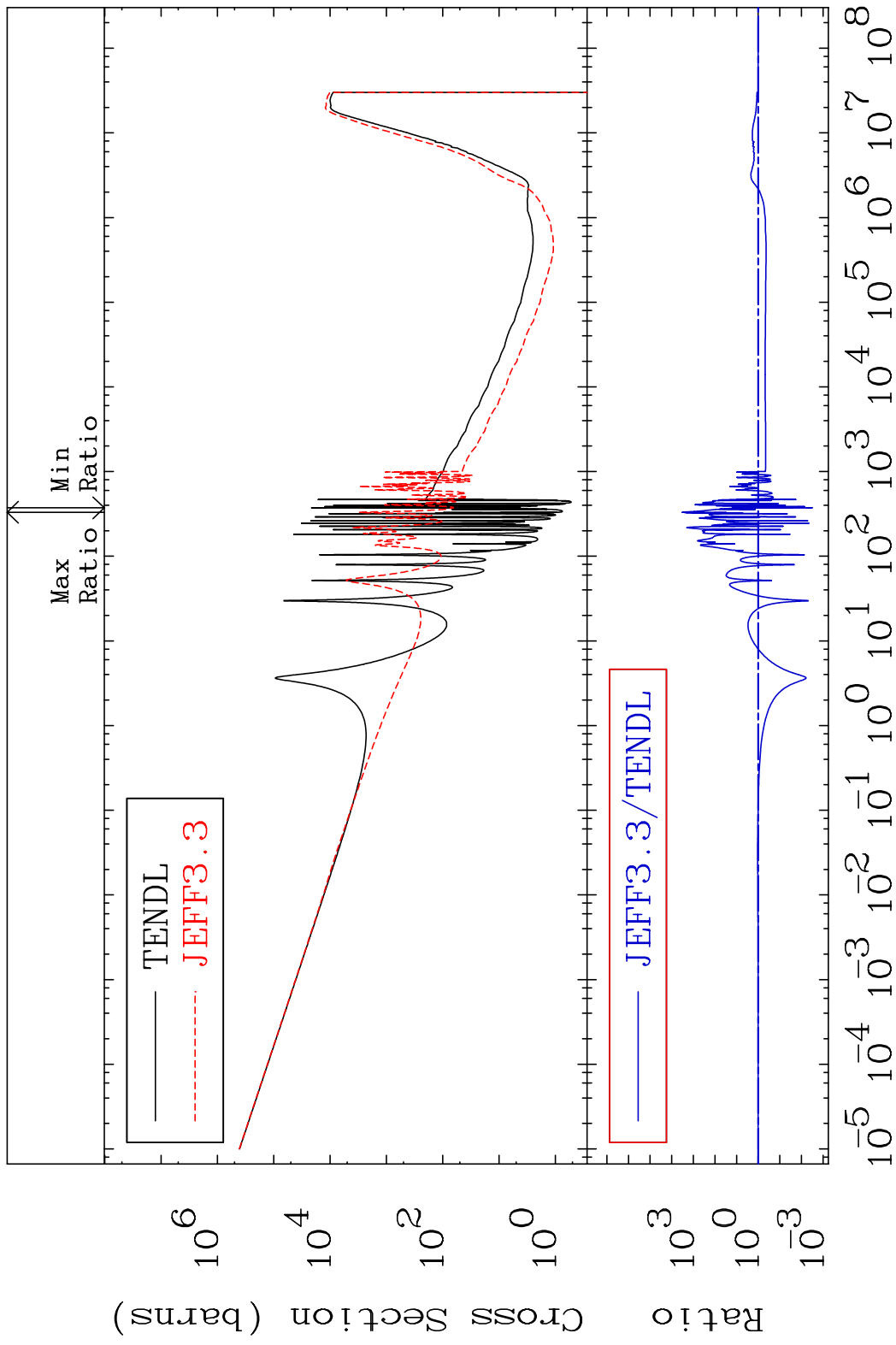
Incident Energy (eV)

58-Ce-139

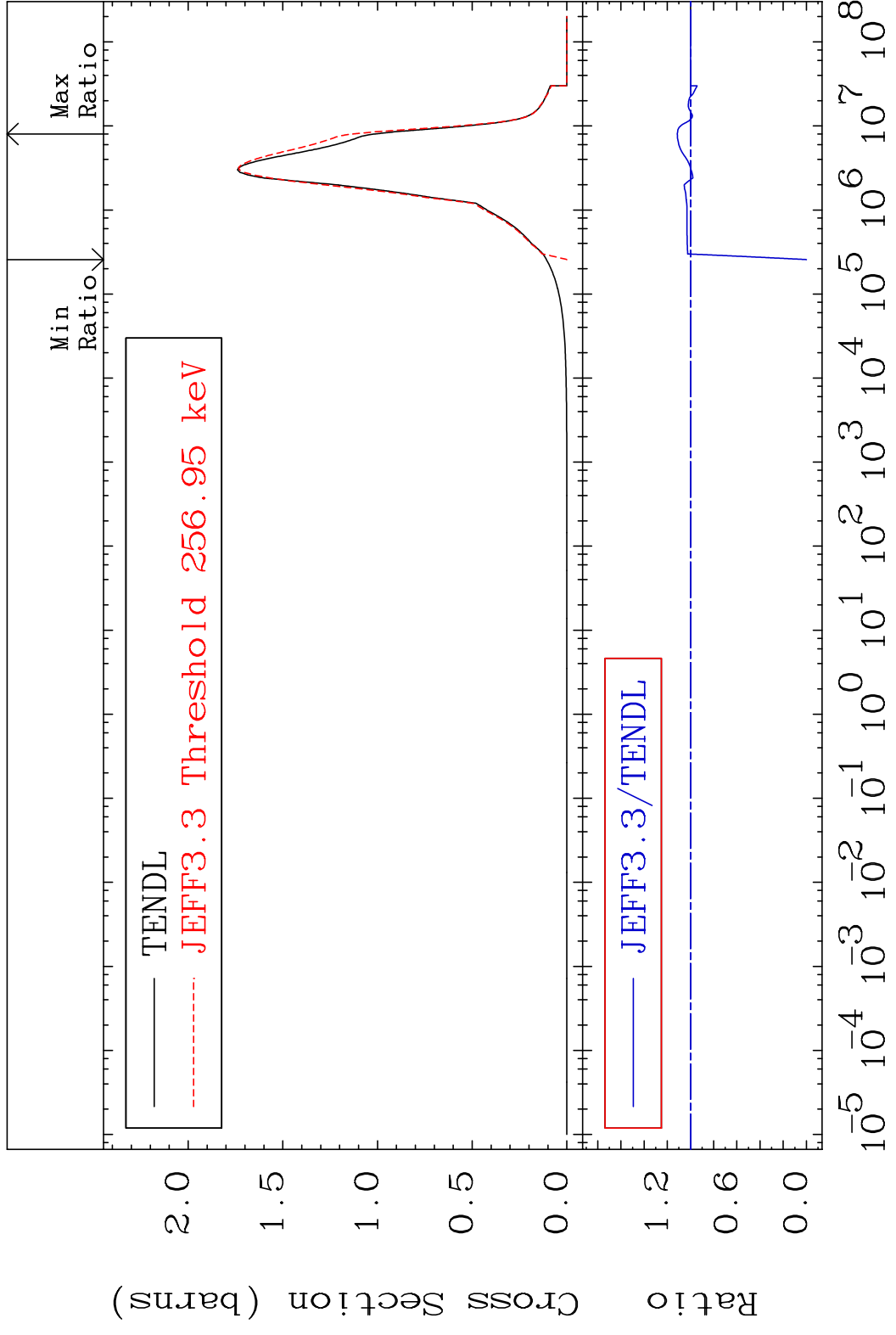
MAT 5834 Dpa inelastic (mt51-91) 58-Ce-139
 Cross Section -100.0 To 7.627 %



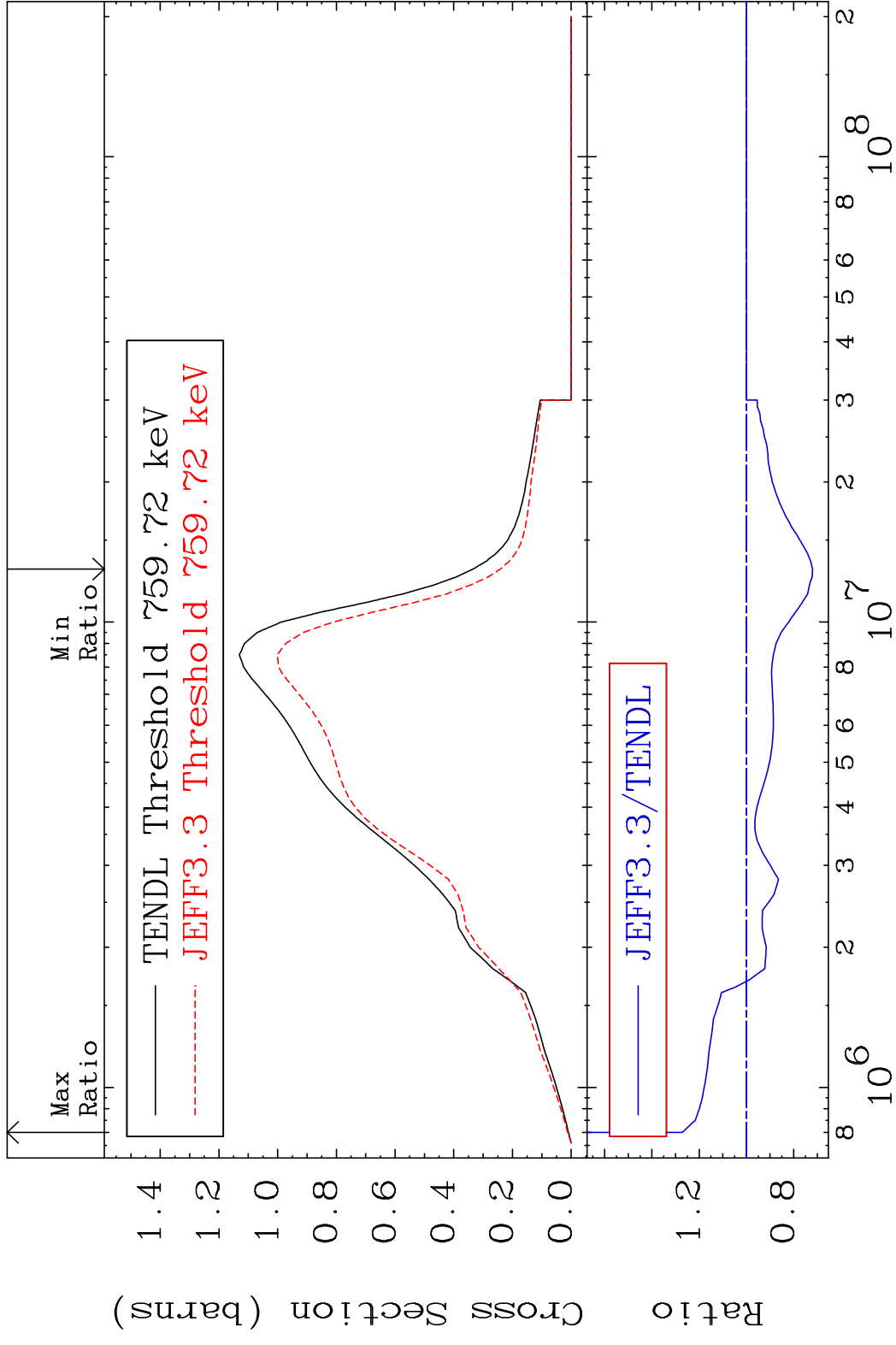
MAT 5834 Dpa disappearance (mt102 -120) 58-Ce-139
 Cross Section -99.70 To 9999. %



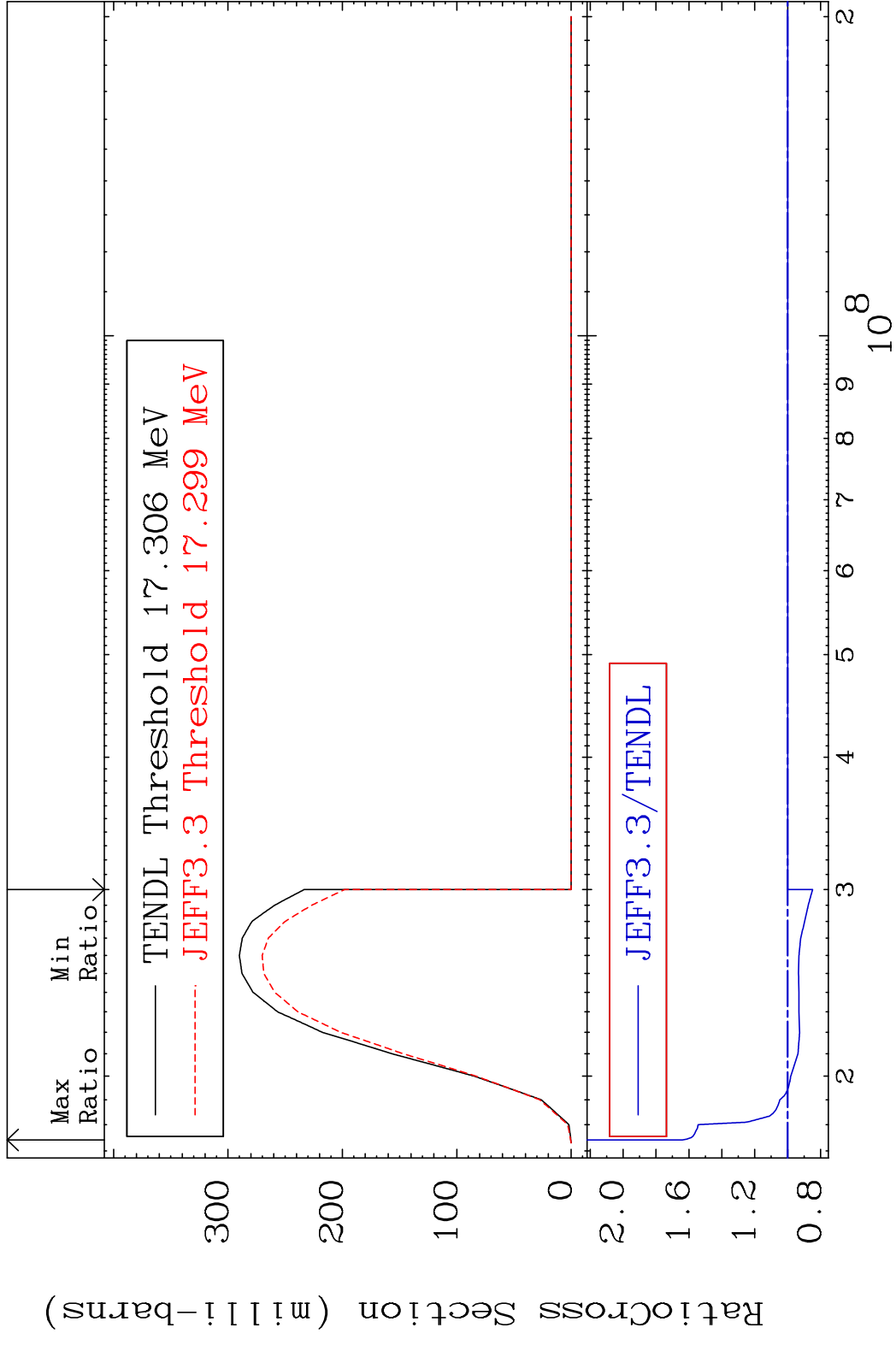
MAT 5834 Inelastic:58-Ce-139g 58-Ce-139
 Radionuclide Production Cross Section 180.01 dth 11.47 %

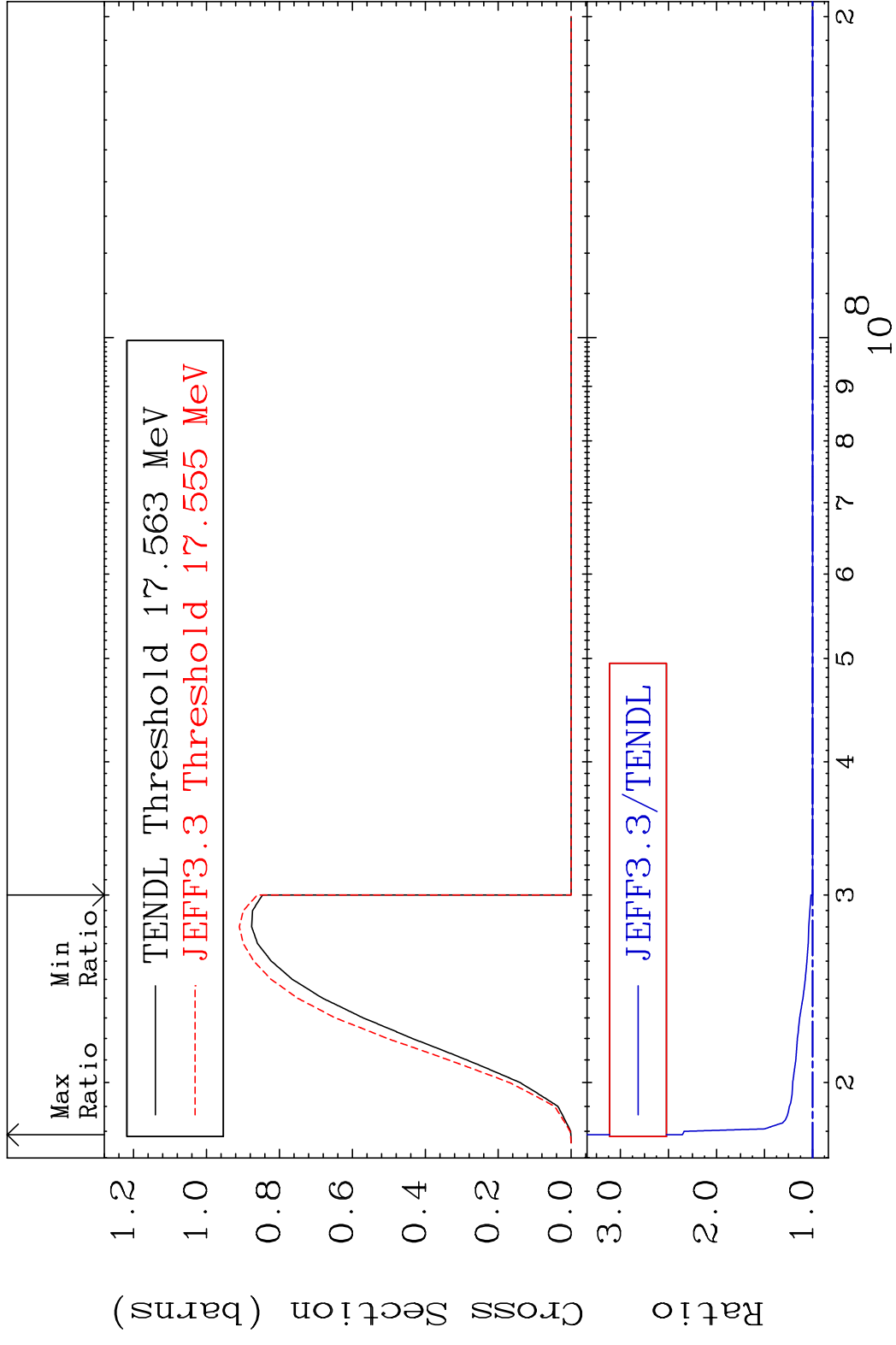


80 Incident Energy (eV) 58-Ce-139

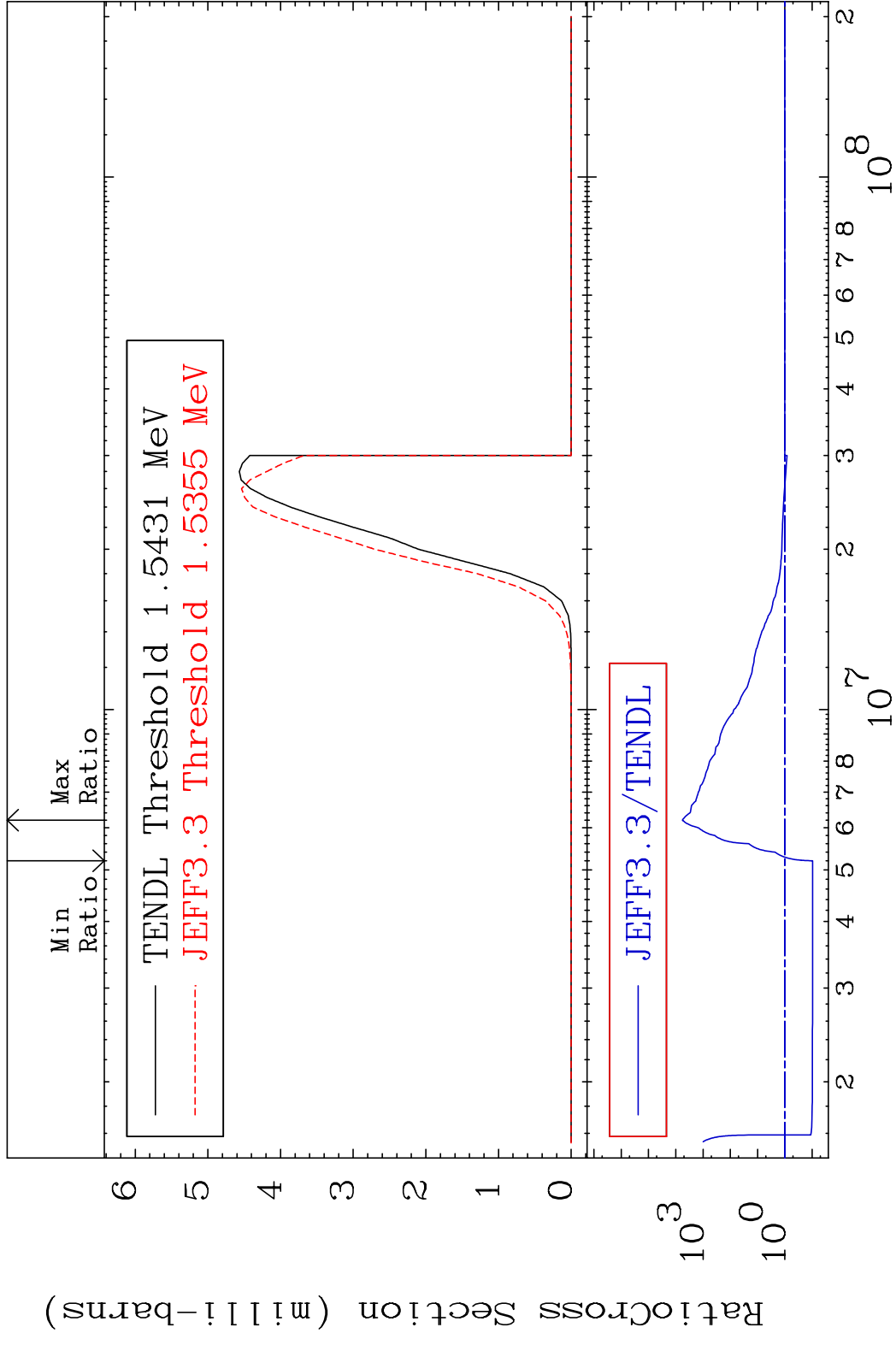


MAT 5834 (n,3n):58-Ce-137g 58-Ce-139
 Radionuclide Production Cross Section 15.64110 63.97 %

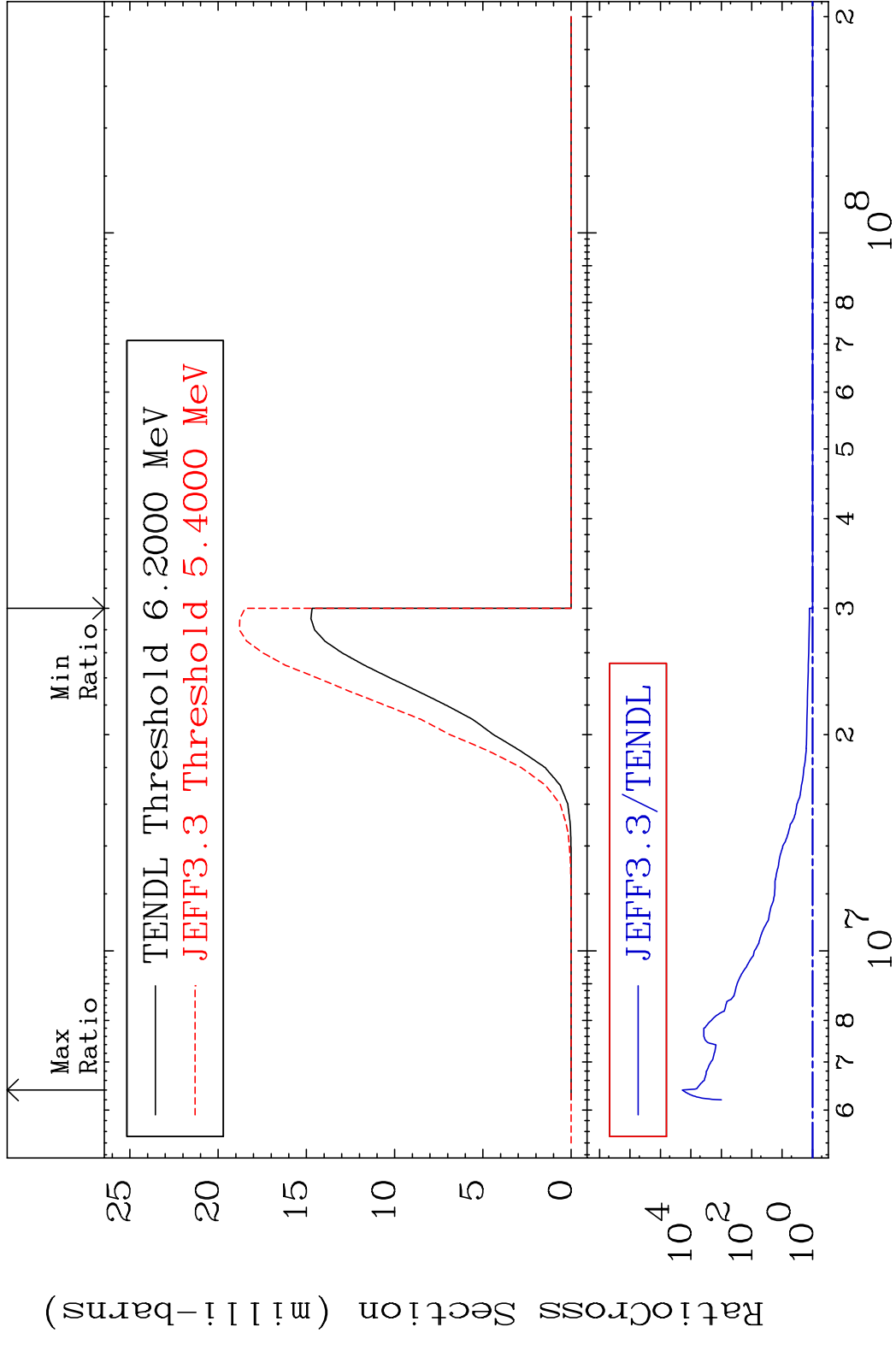




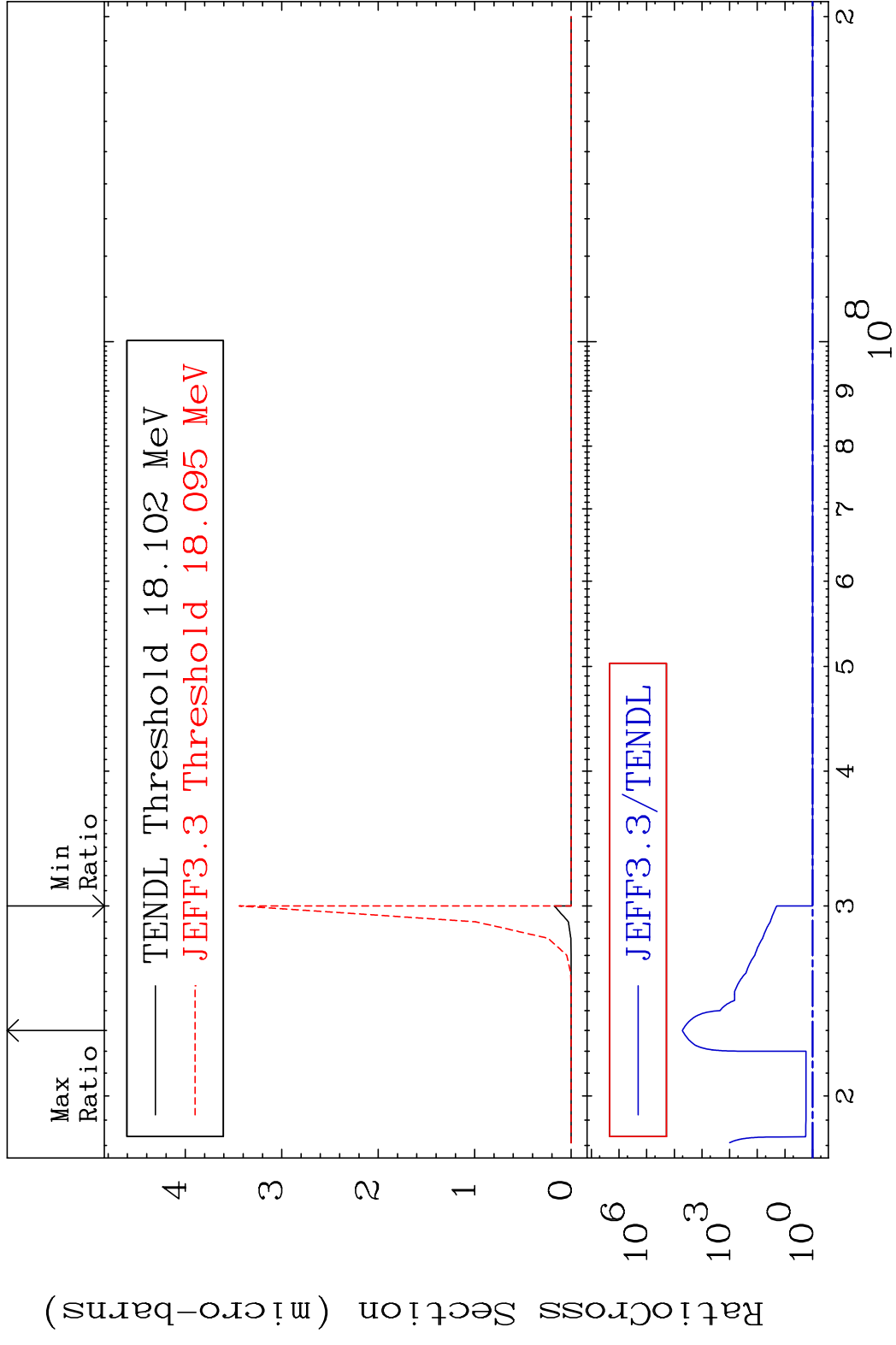
MAT 5834 (n, n') α :56-Ba-135g 58-Ce-139
 Radionuclide Production Cross Section to 9999. %



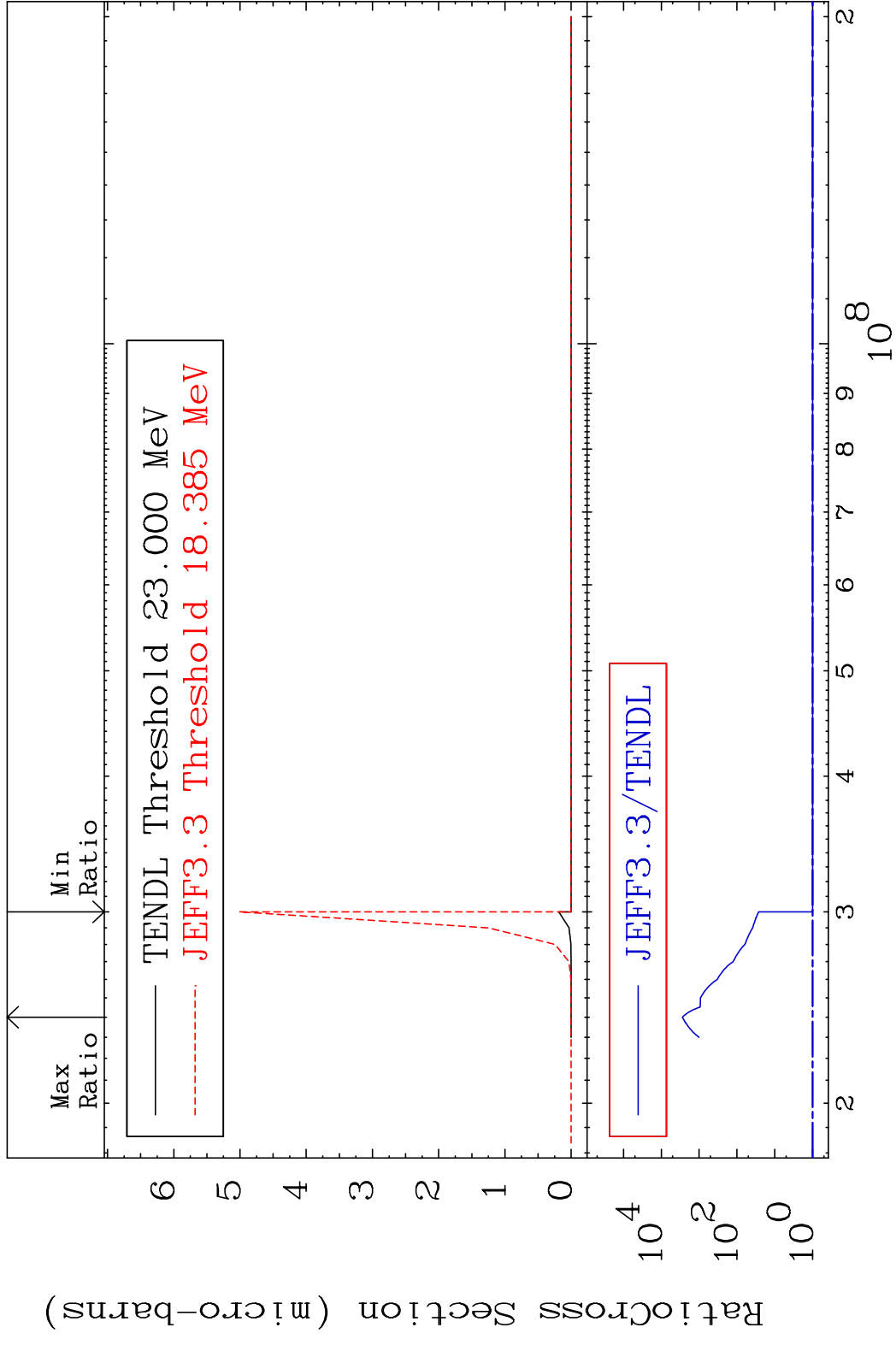
MAT 5834 (n, n') α :56-Ba-135m2 58-Ce-139
 Radionuclide Production Cross Section 9999. %

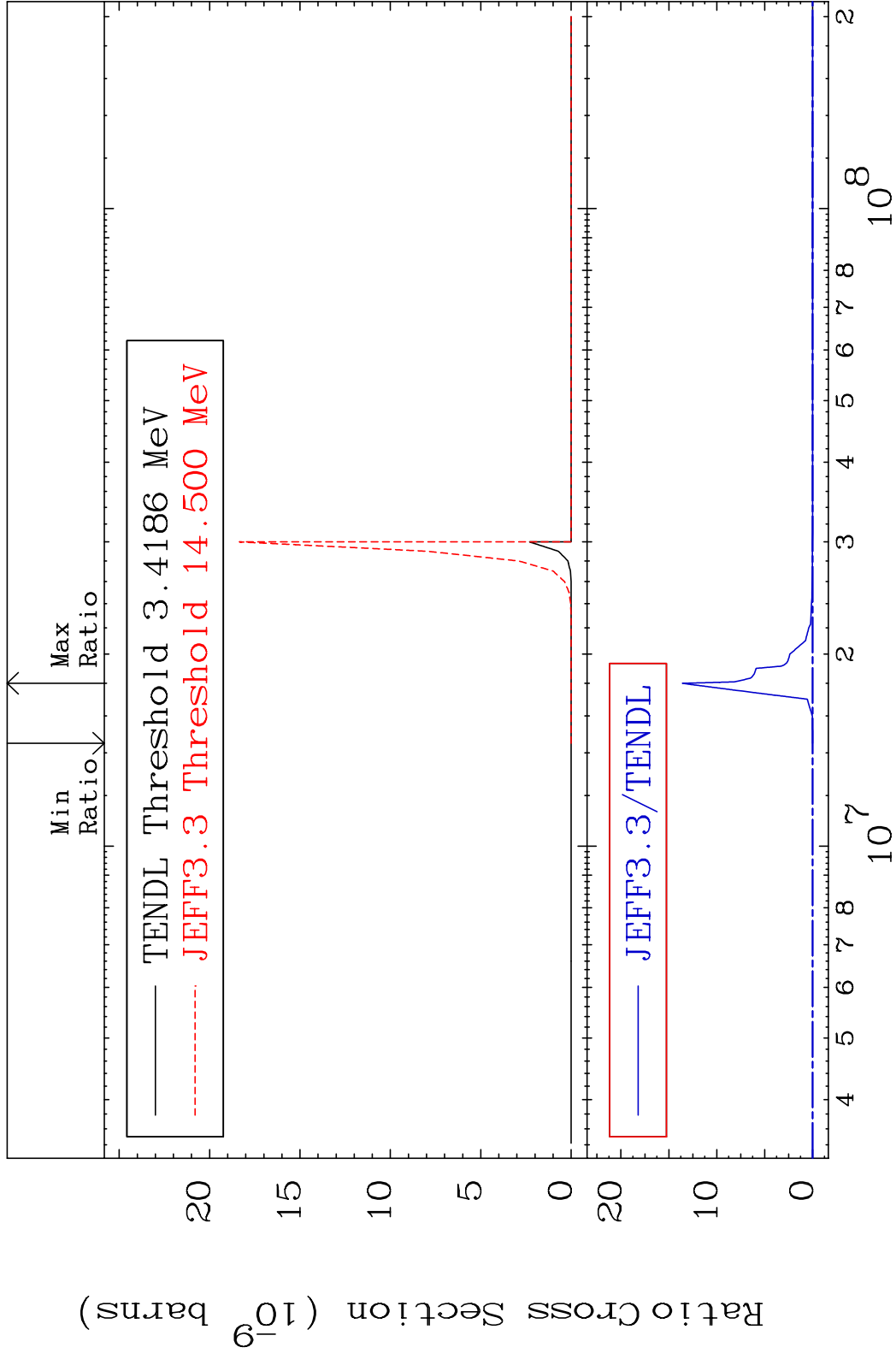


MAT 5834 (n,3n) α :56-Ba-133g 58-Ce-139
 Radionuclide Production Cross Section 9999. %

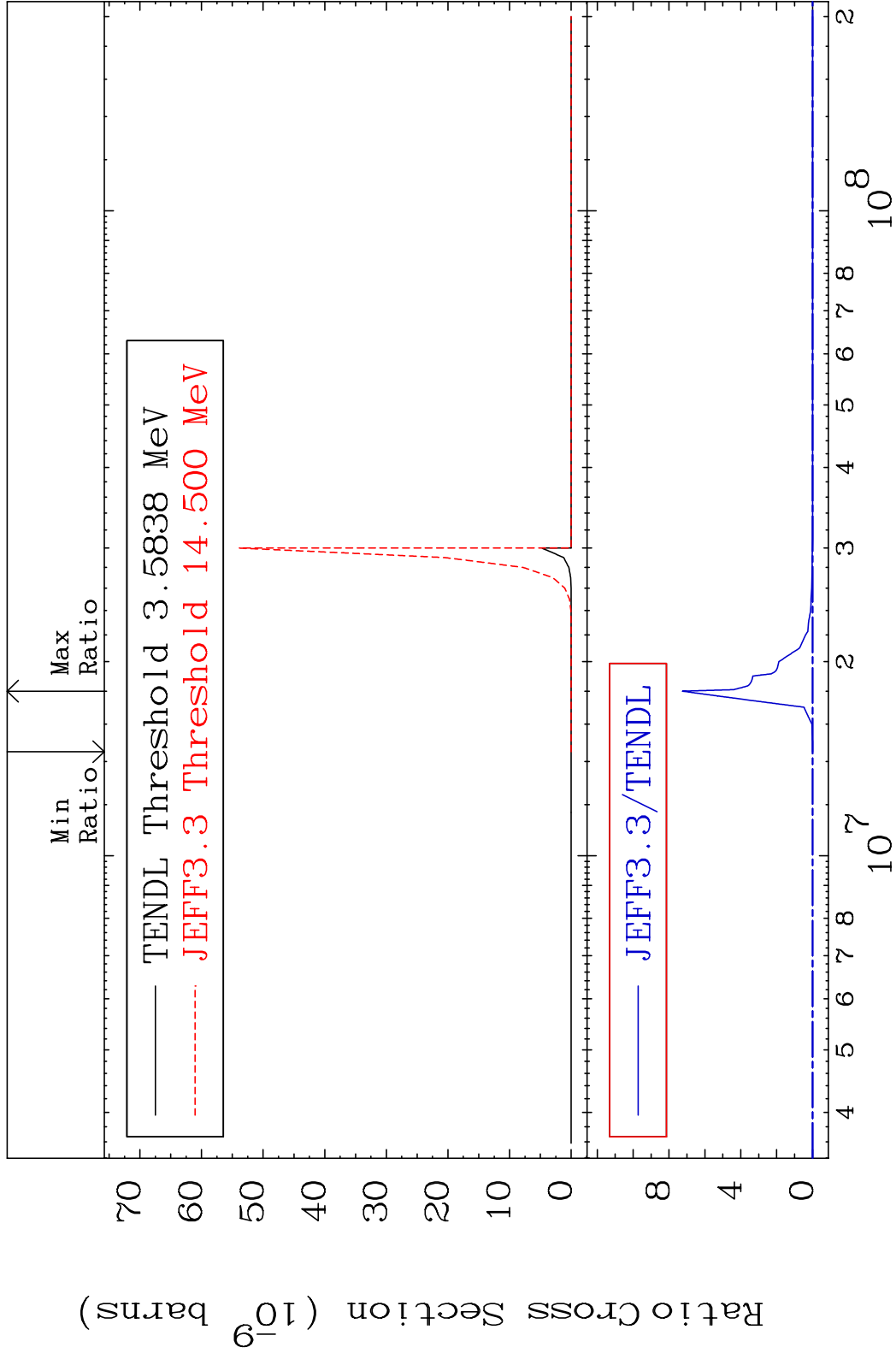


MAT 5834 (n,3n) α :56-Ba-133m2 58-Ce-139
 Radionuclide Production Cross Section, %

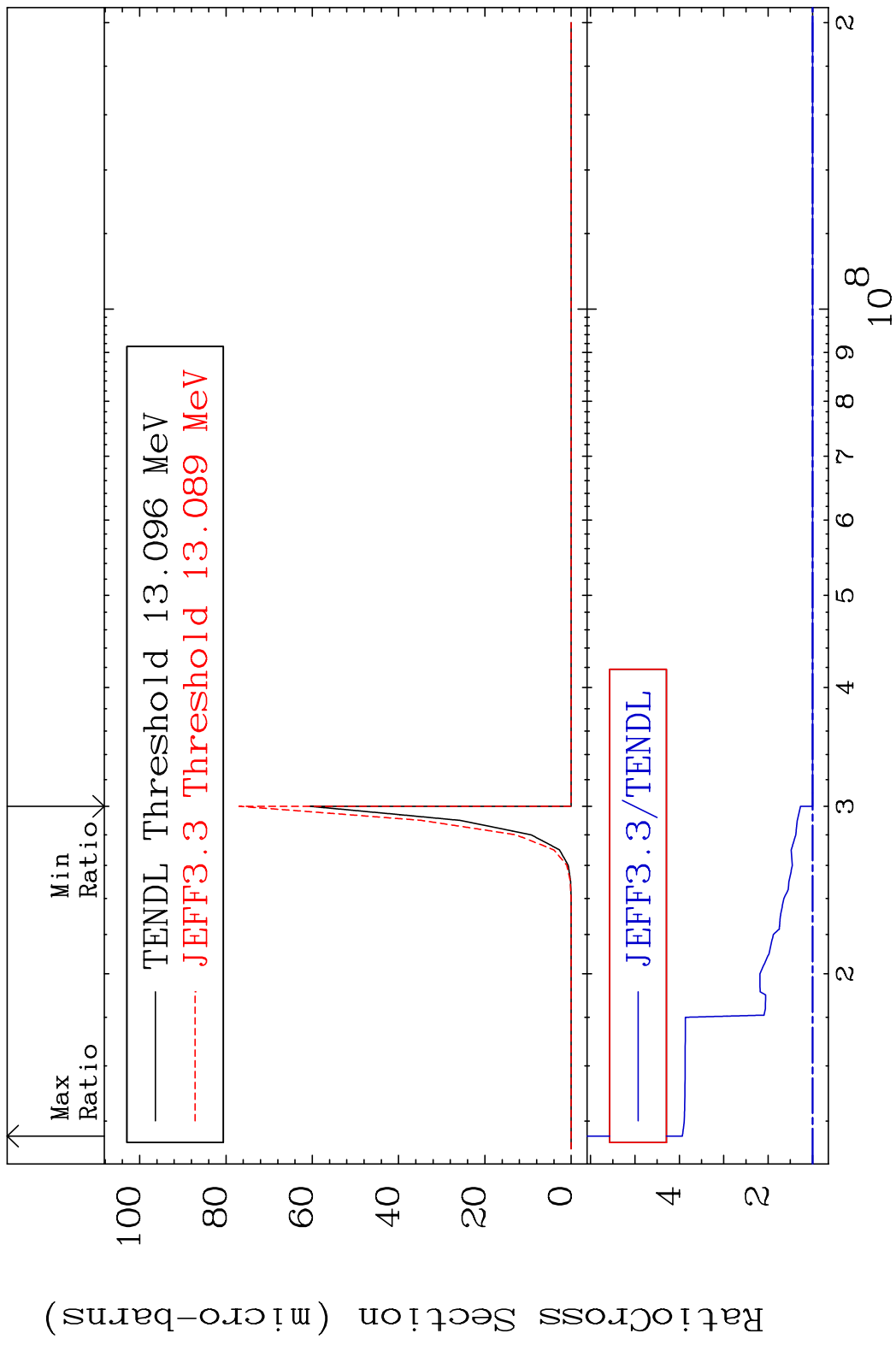




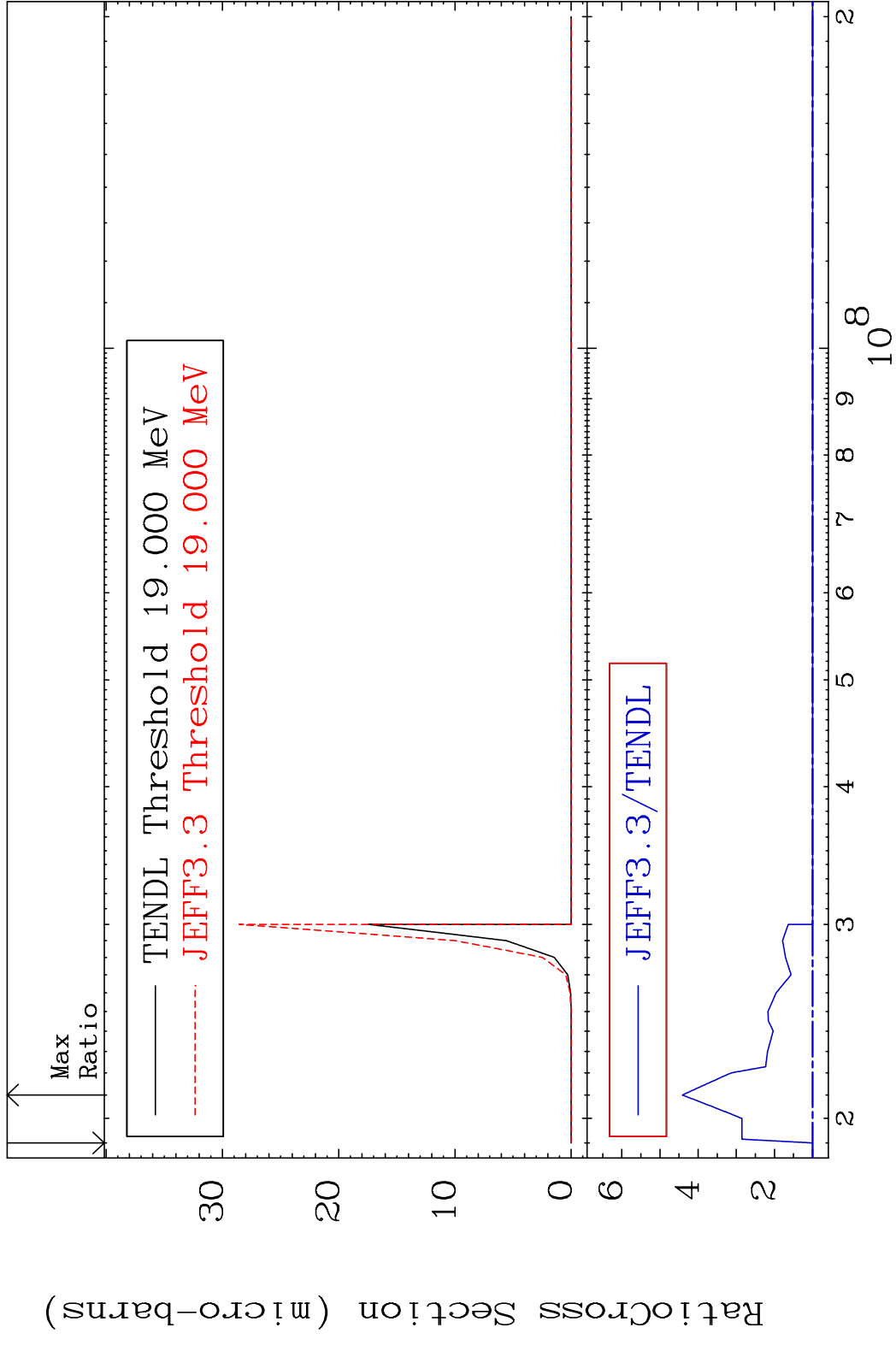
MAT 5834 (n, n') 2α:54-Xe-131m2 58-Ce-139
 Radionuclide Production Cross Section to 9999. %

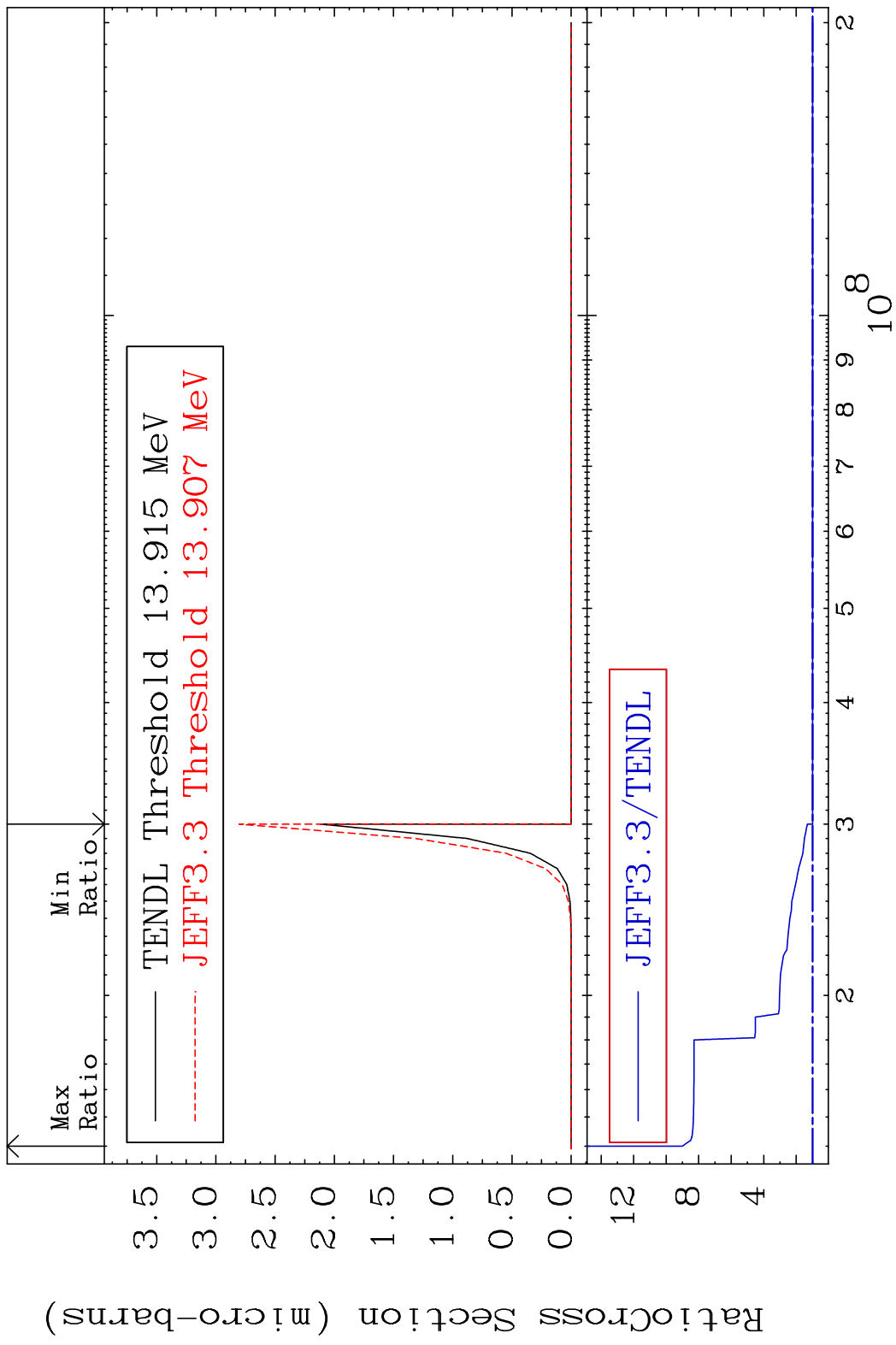


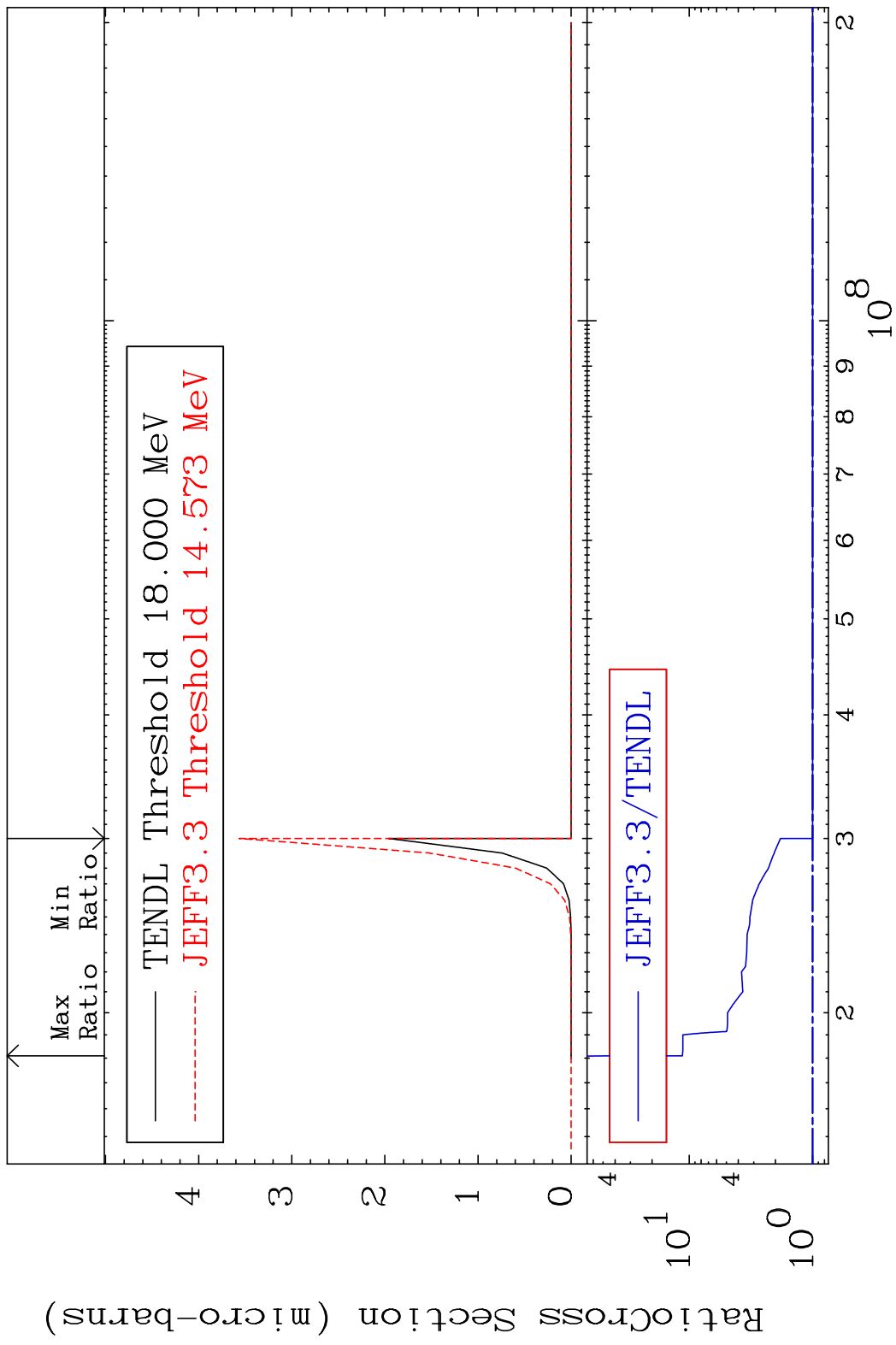
MAT 5834 (n, n') He-3:56-Ba-136g 58-Ce-139
 Radionuclide Production Cross Section 293.3 %



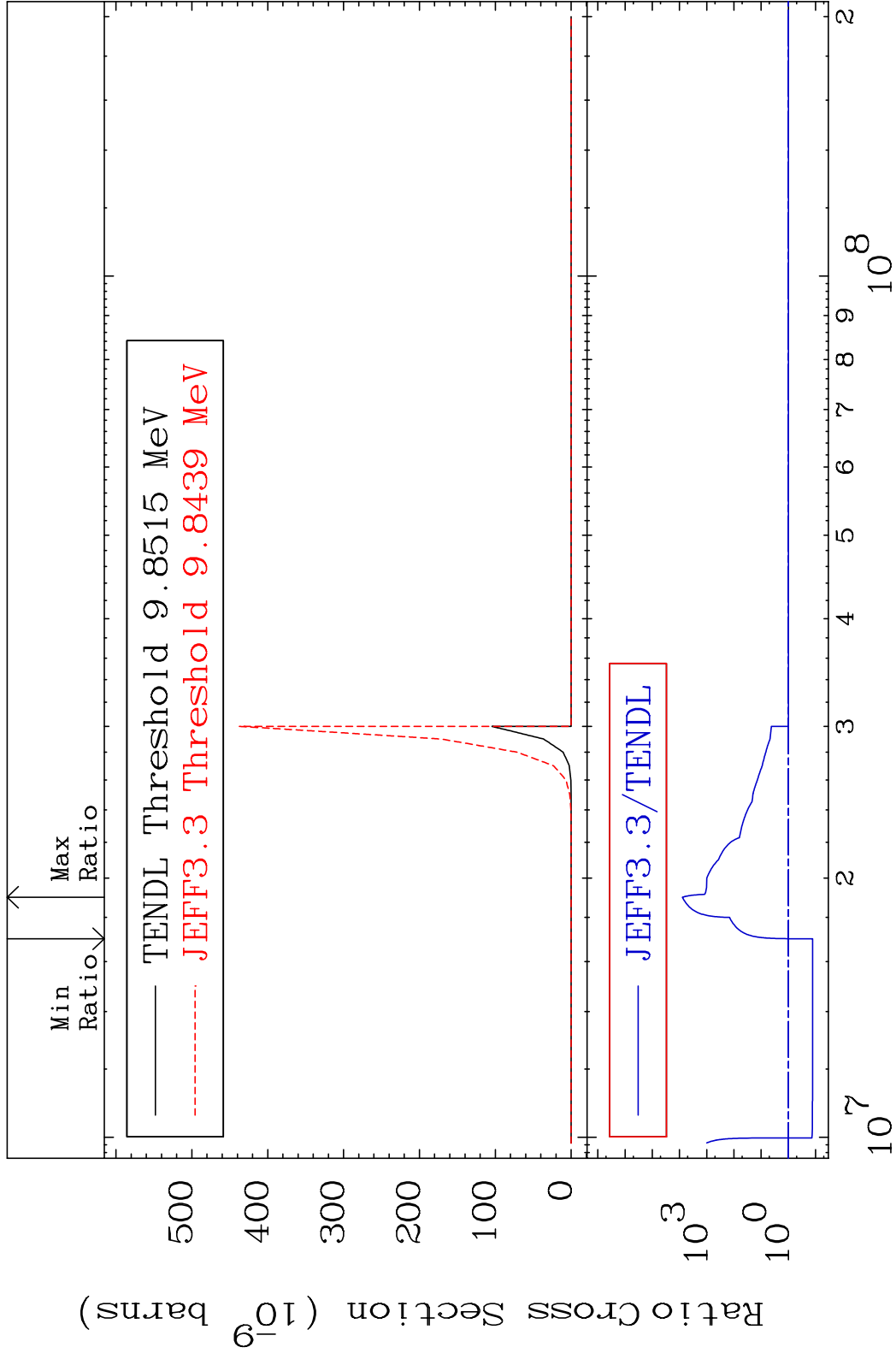
MAT 5834 (n, n') He-3:56-Ba-136m5 58-Ce-139
 Radionuclide Production Cross Section 341.4 %





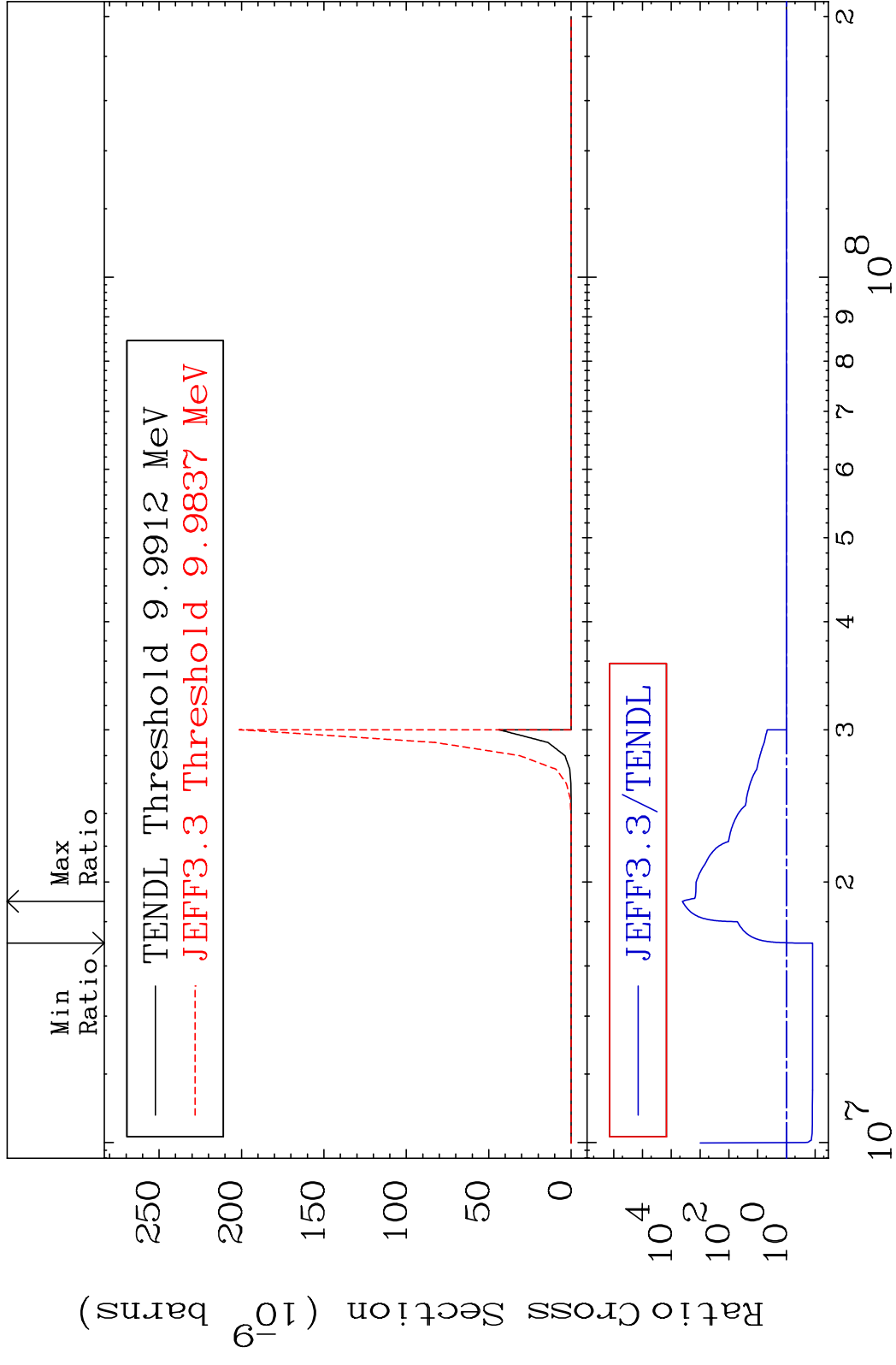


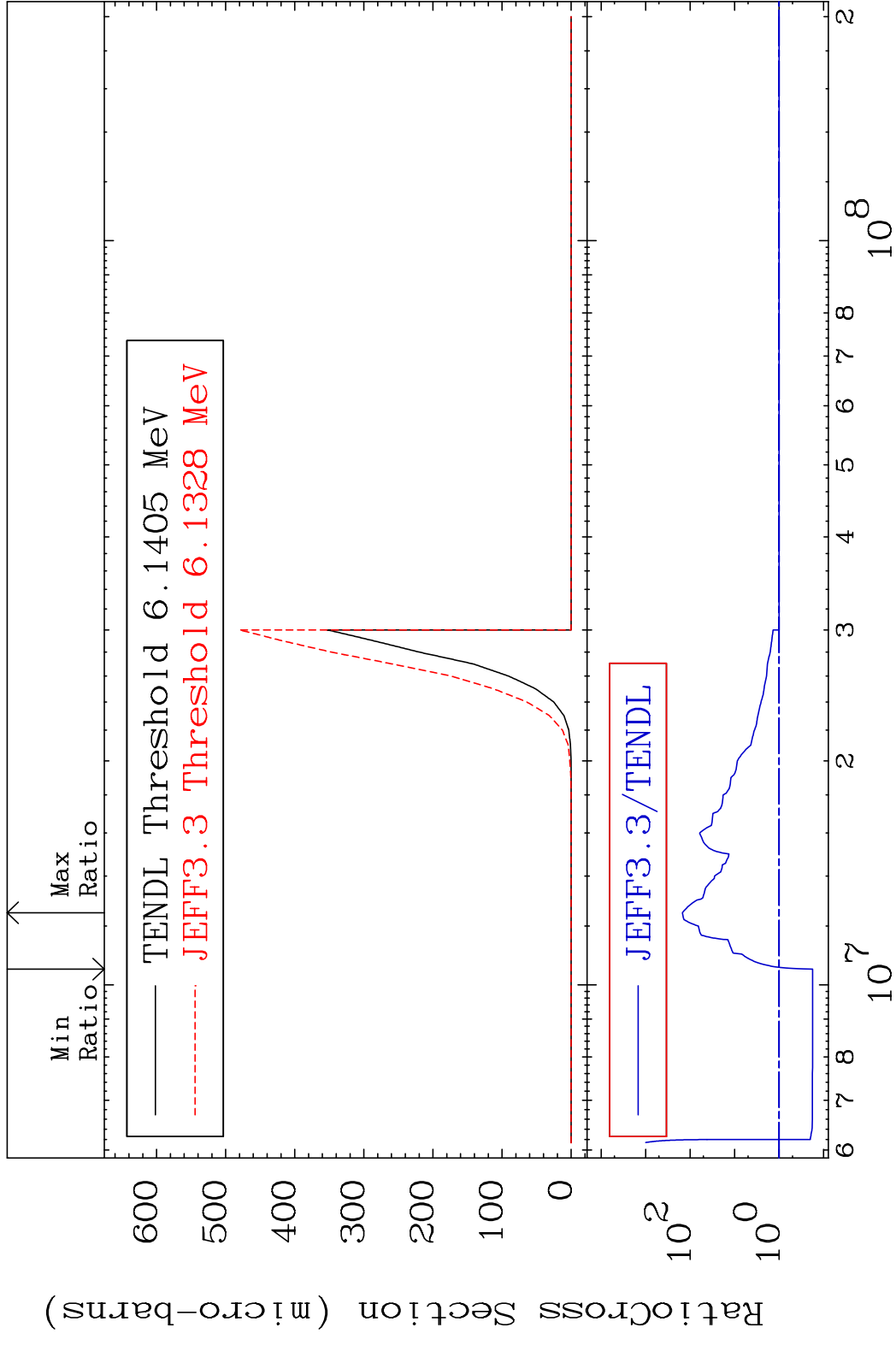
MAT 5834 (n, n') p α :55-Cs-134g 58-Ce-139
 Radionuclide Production Cross Section to 9999. %

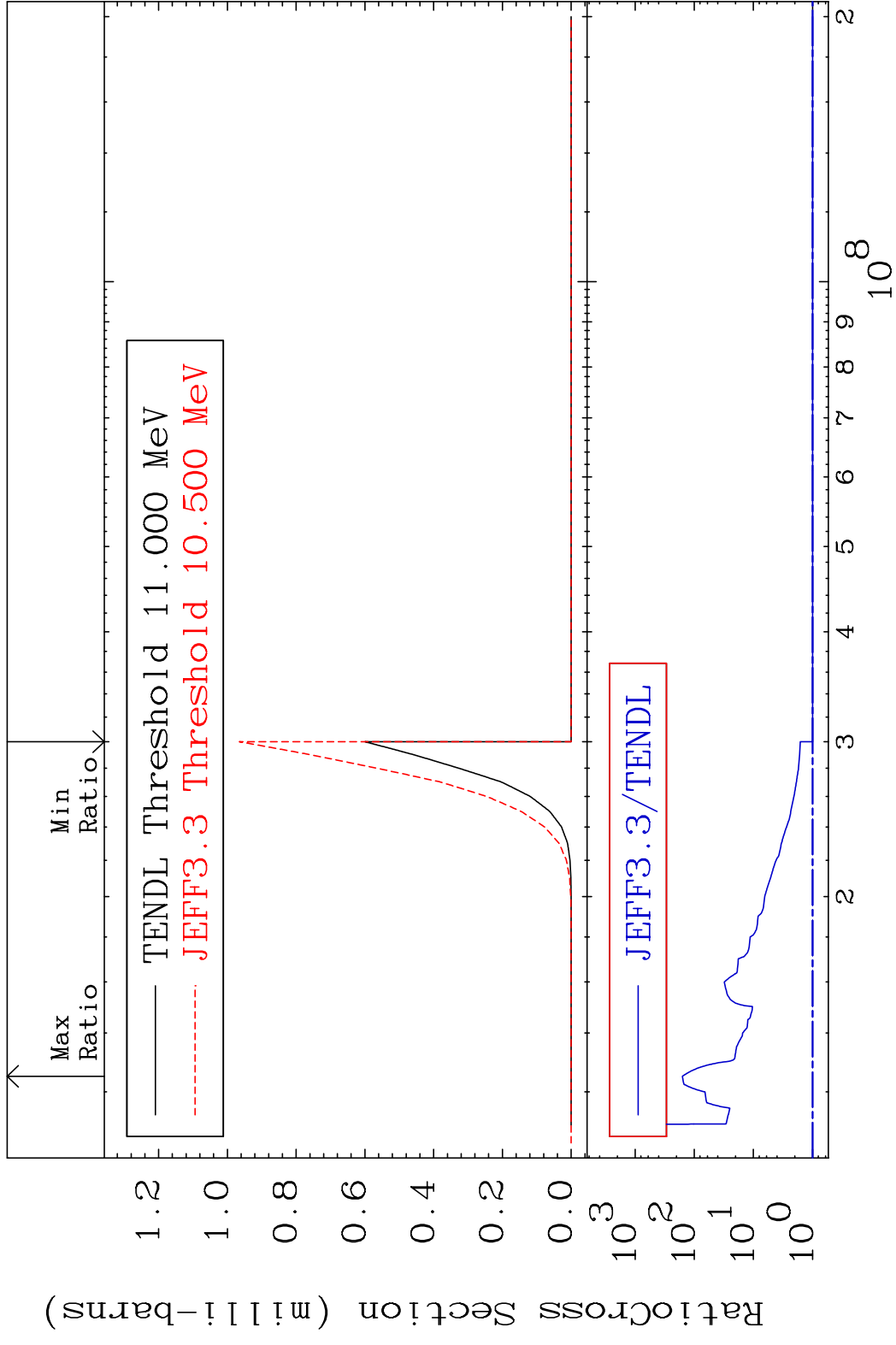


94 Incident Energy (eV) 58-Ce-139

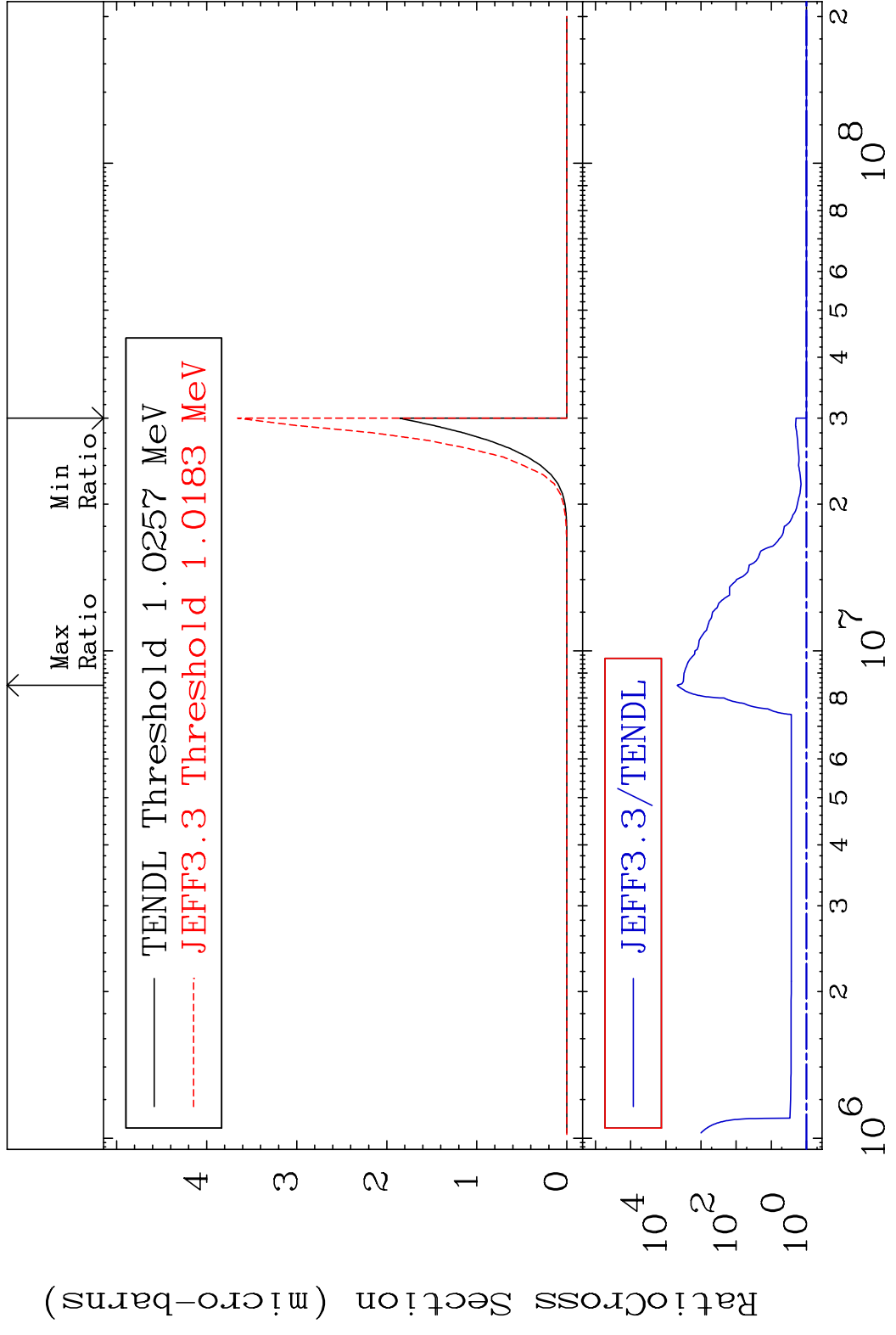
MAT 5834 (n, n') p α :55-Cs-134m3 58-Ce-139
 Radionuclide Production Cross Section to 9999. %



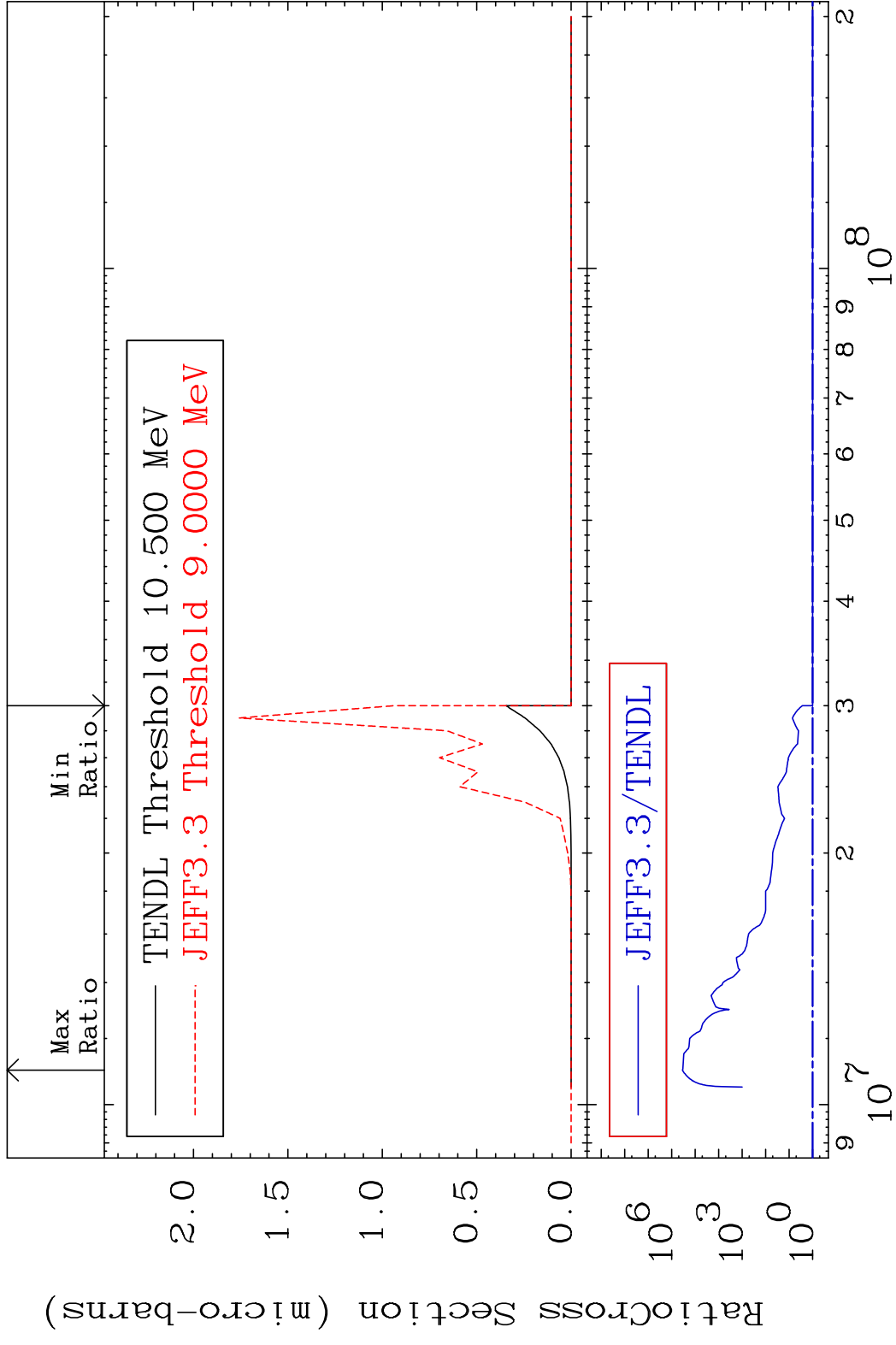




MAT 5834 (n, p) α :55-Cs-135g 58-Ce-139
 Radionuclide Production Cross Section 9999. %

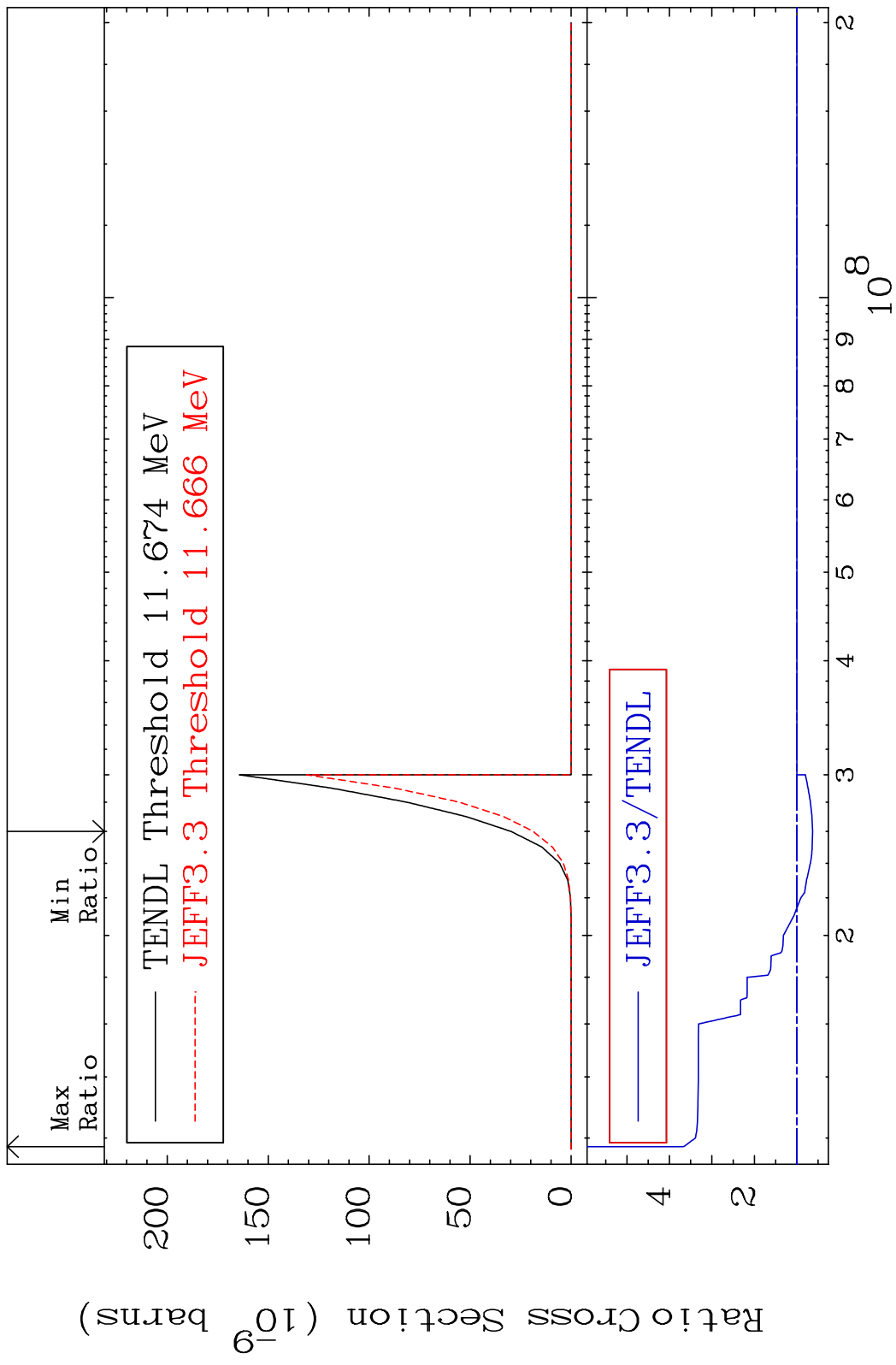


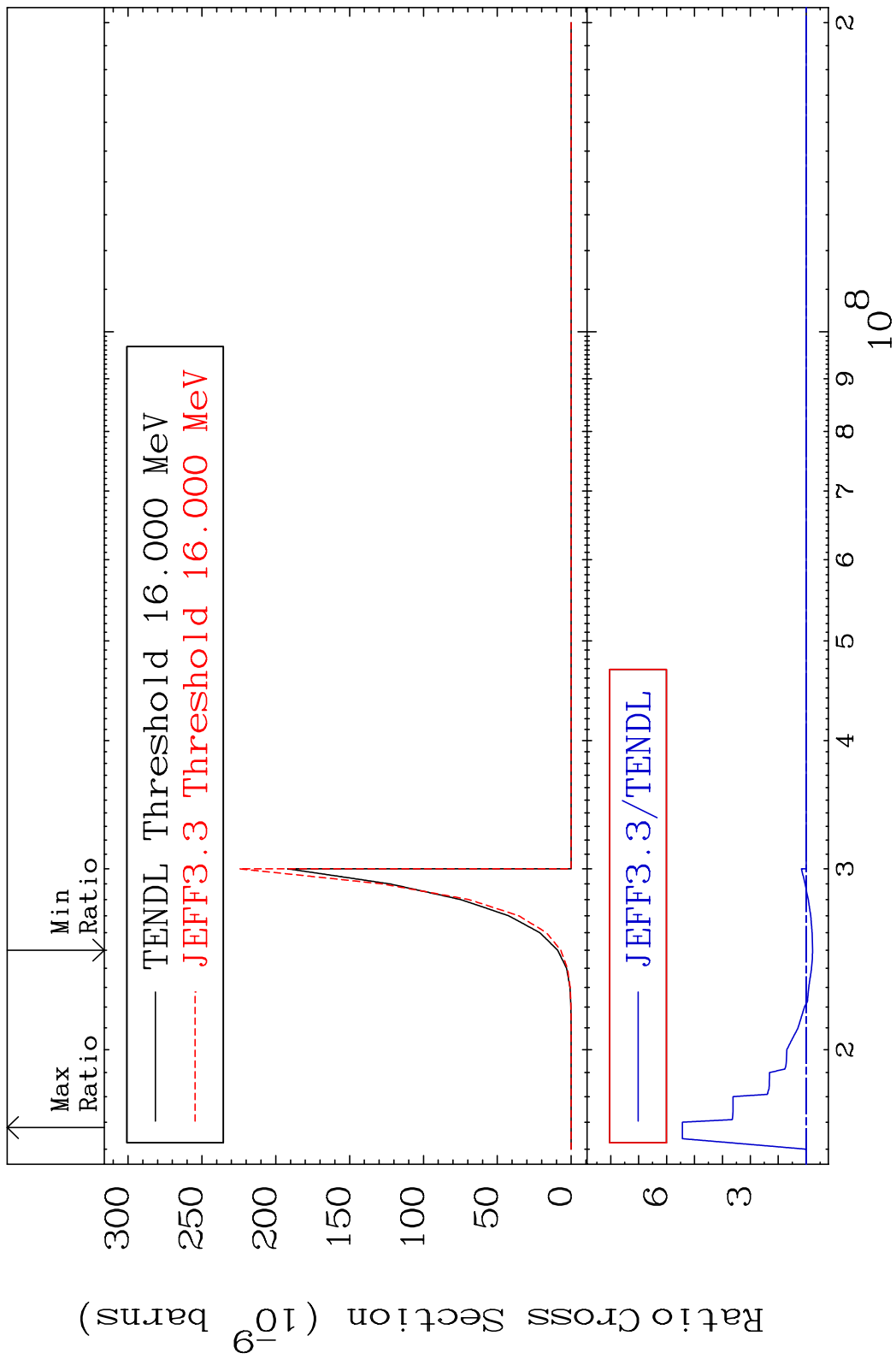
MAT 5834 (n,p) α :55-Cs-135m10 58-Ce-139
 Radionuclide Production Cross Section 9999. %



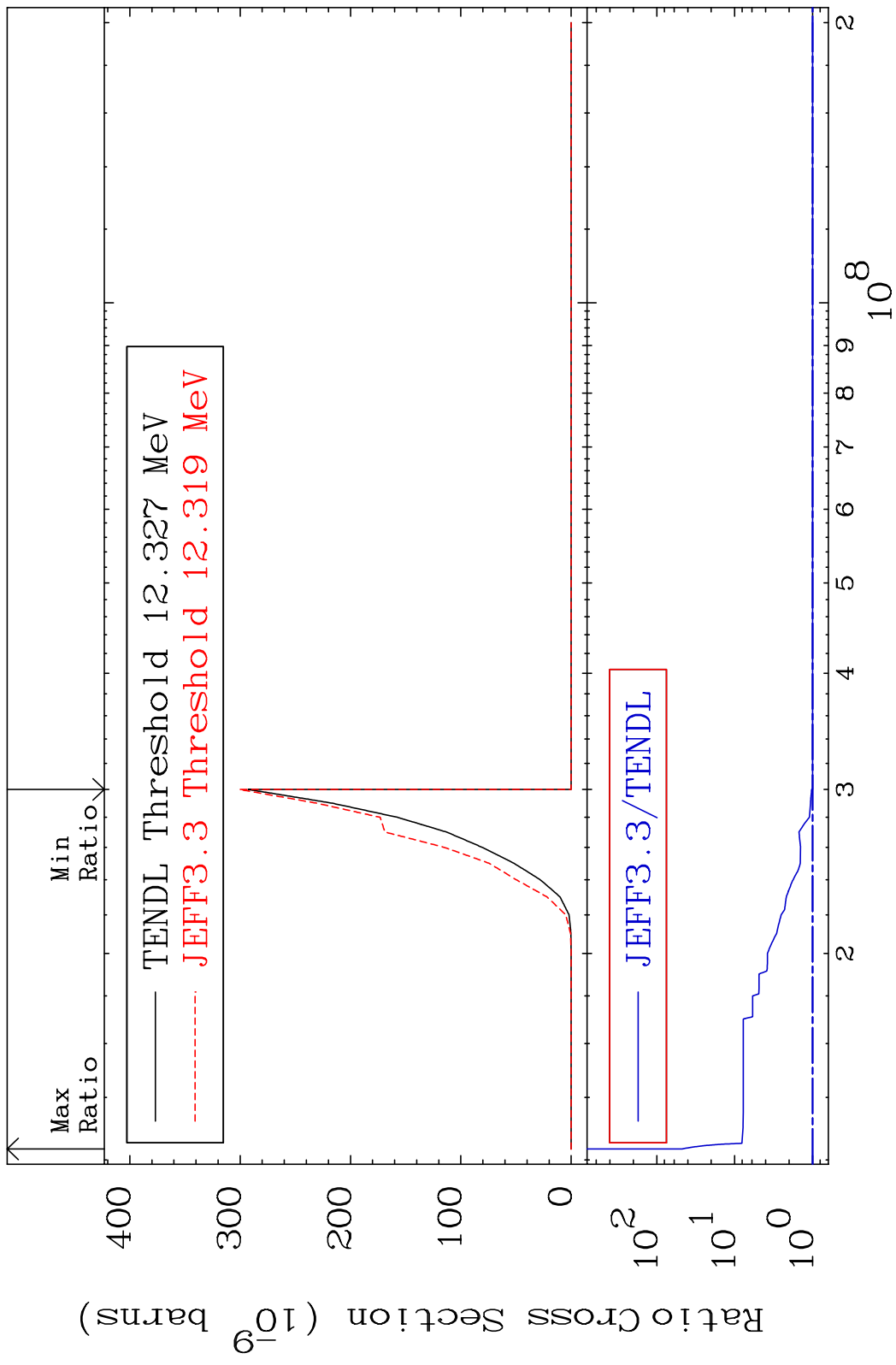
99 58-Ce-139

MAT 5834 (n,p) d:56-Ba-137g 58-Ce-139
 Radionuclide Production Cross Section to 269.5 %

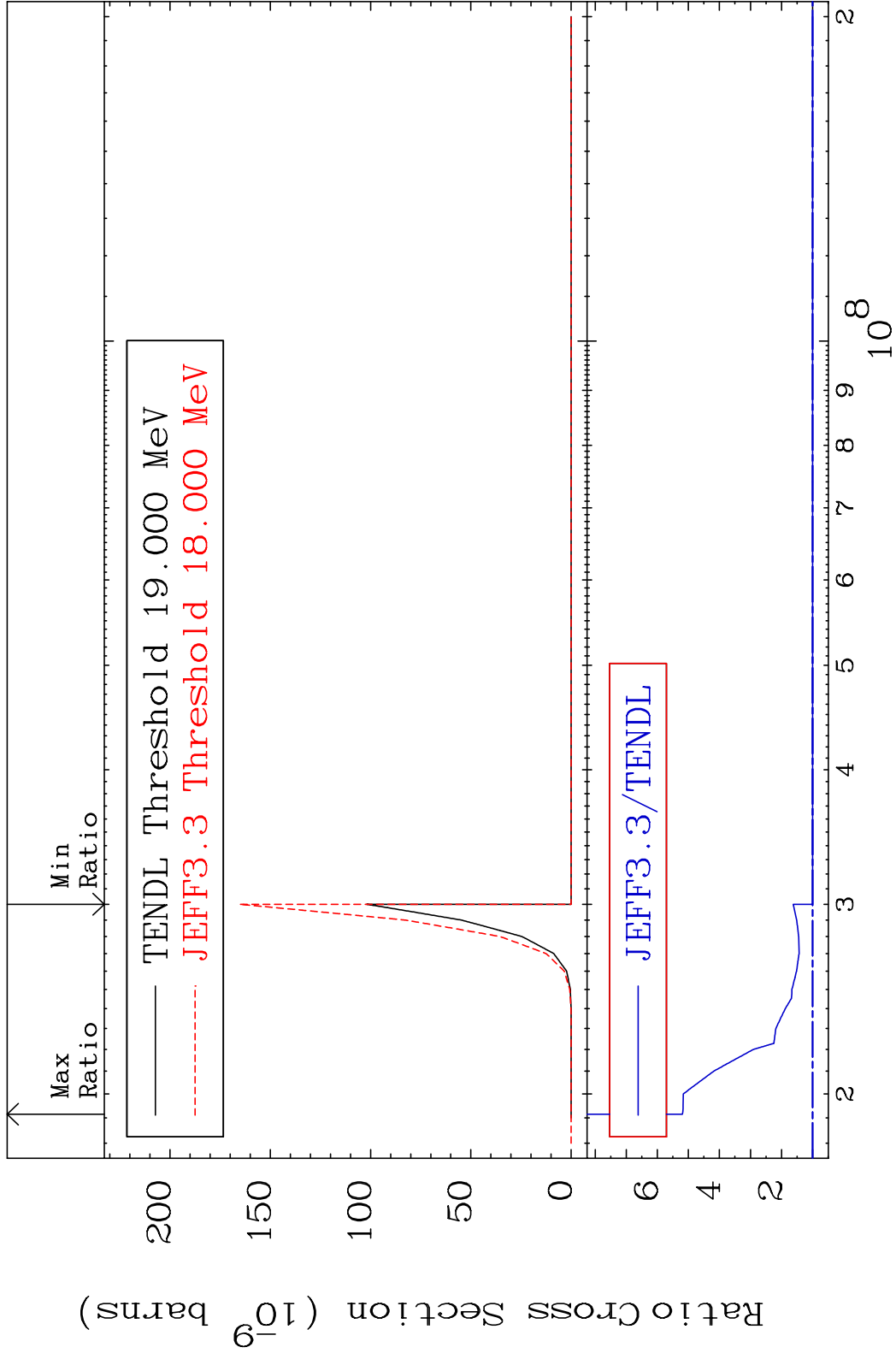


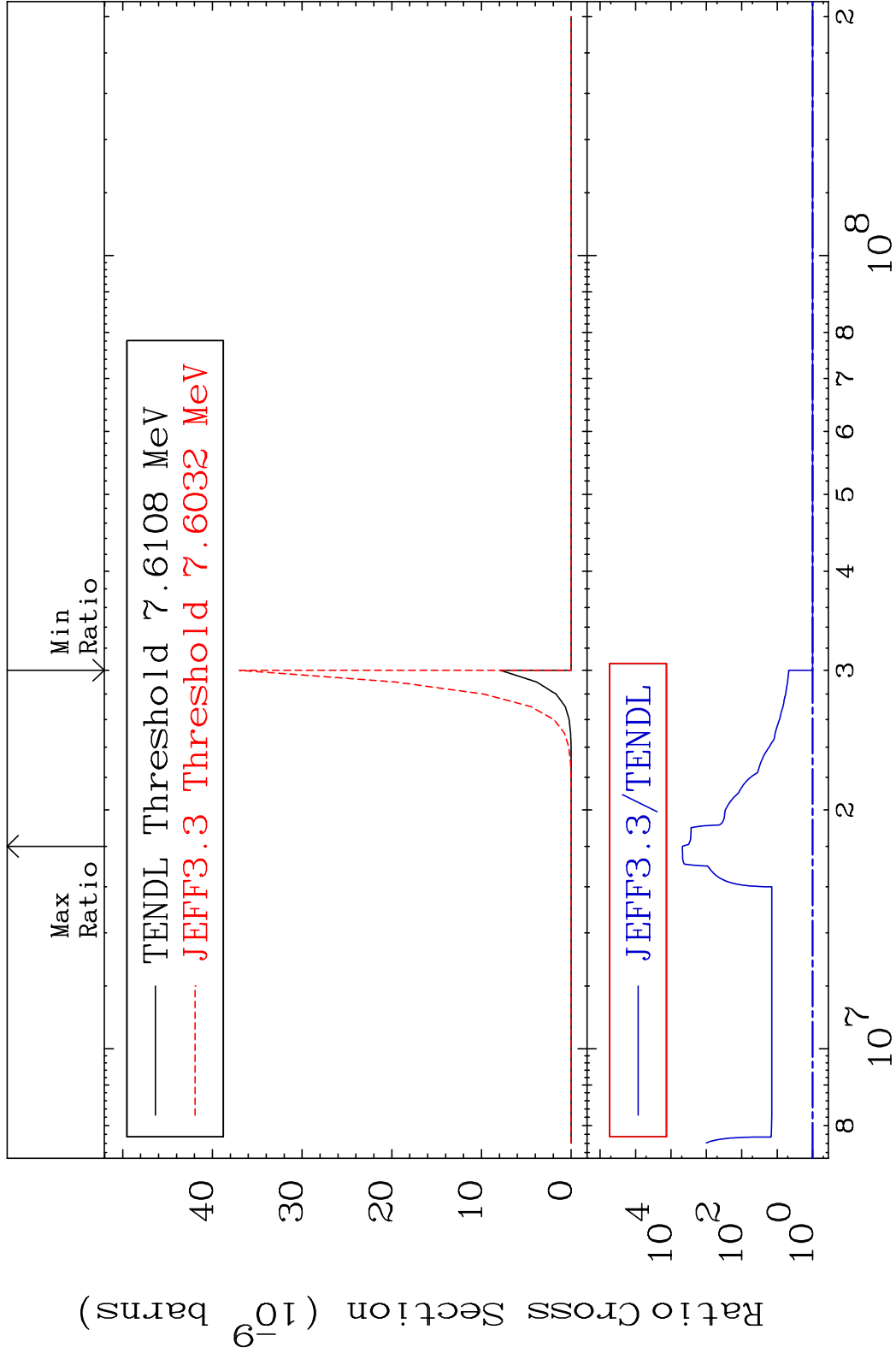


MAT 5834 (n, p) t:56-Ba-136g 58-Ce-139
 Radionuclide Production Cross Section 500110 4597. %

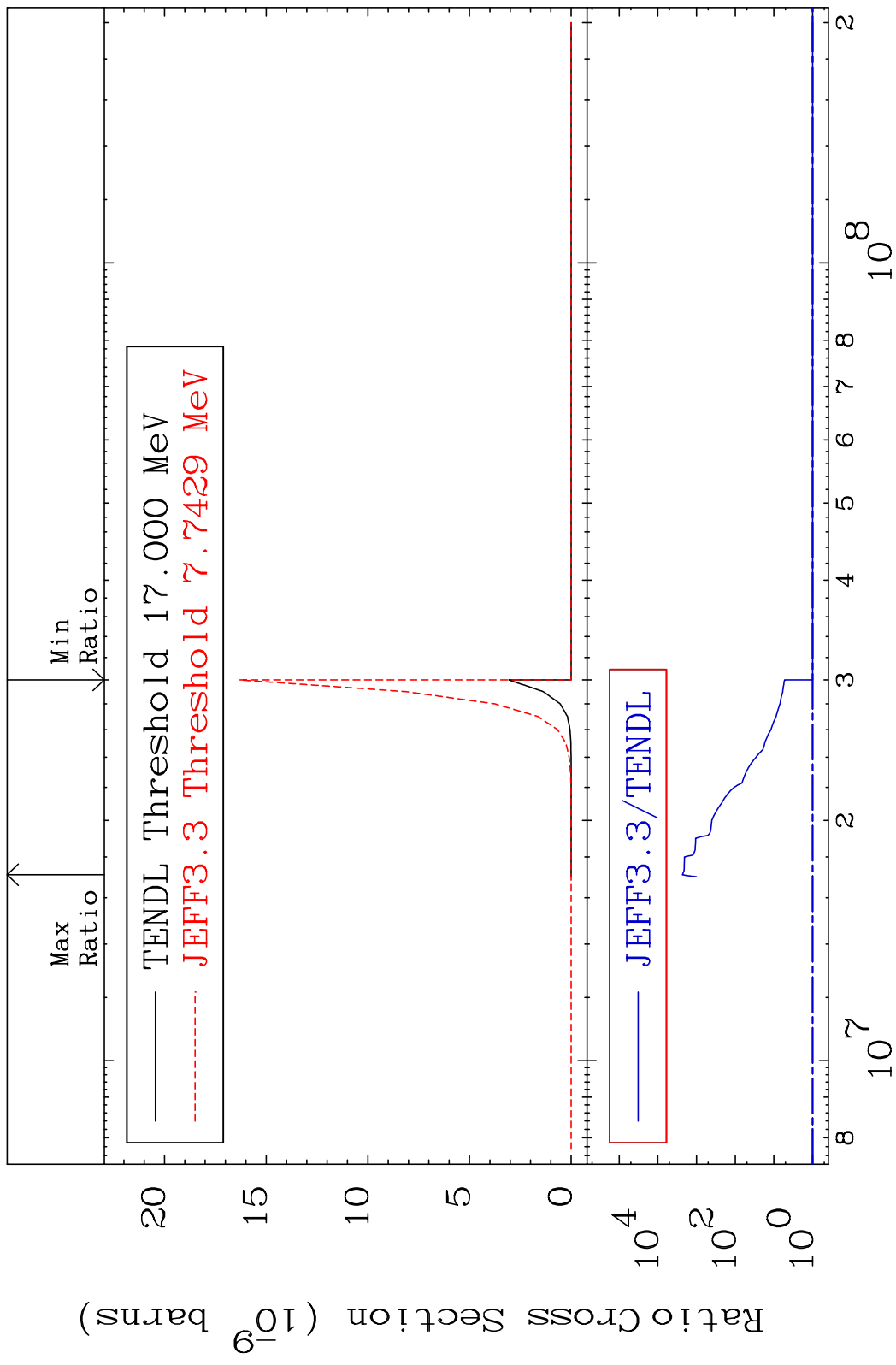


MAT 5834 (n, p) t:56-Ba-136m5 58-Ce-139
 Radionuclide Production Cross Section 419.4 %





MAT 5834 (n,d) α :55-Cs-134m3 58-Ce-139
 Radionuclide Production Cross Section 9999. %



105 Incident Energy (eV) 58-Ce-139