

Program Complot
(Version 2021-1)

by

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Press Mouse Button to Start

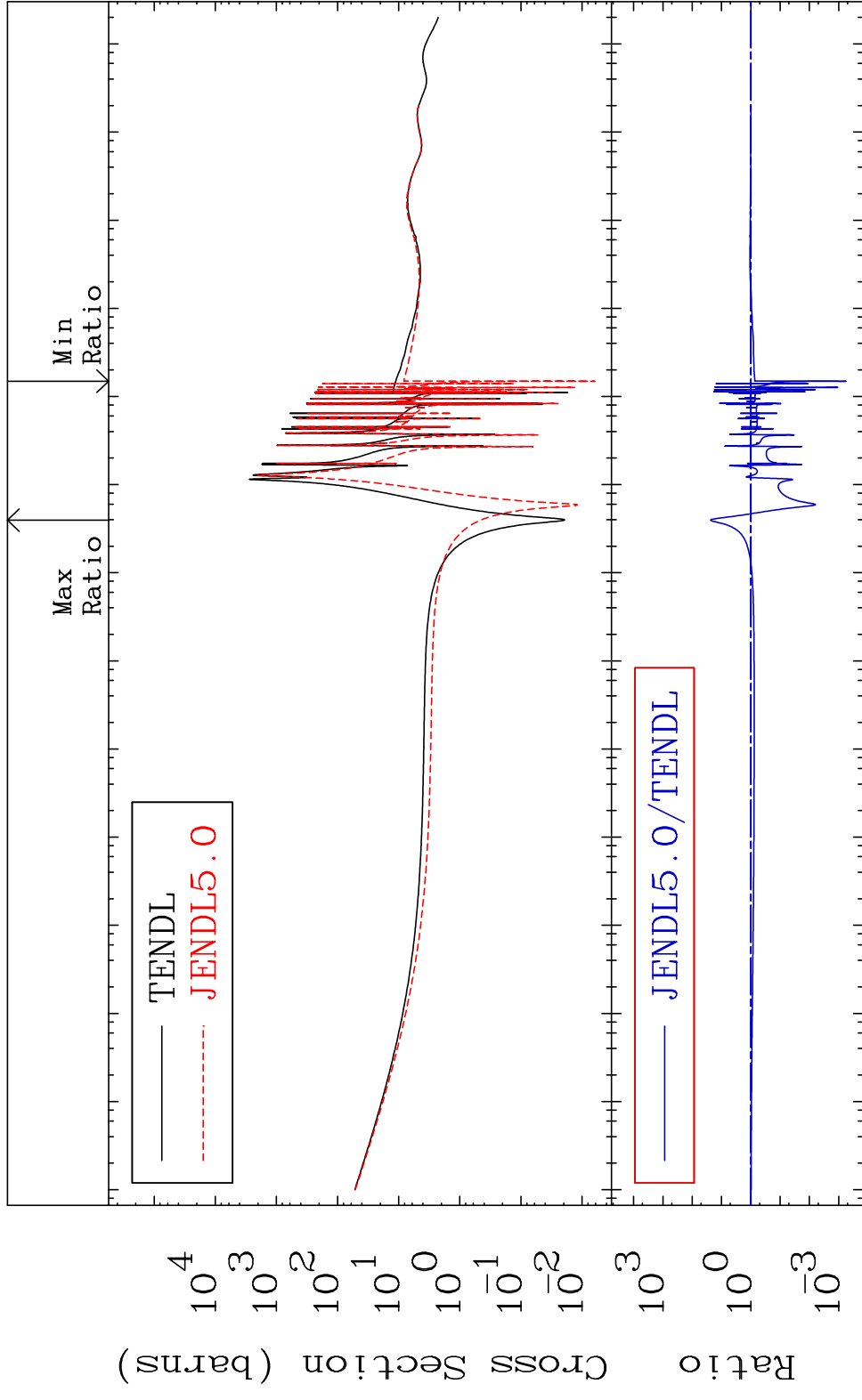
MAT 5843

Total

58-Ce-142

Cross Section

-99.95 To 2234. %



10⁴ 10³ 10² 10¹ 10⁰ 10⁻¹ 10⁻² 10⁻³ 10⁻⁴ 10⁻⁵

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

Ratio

JENDL5.0/TENDL

Incident Energy (eV)

58-Ce-142

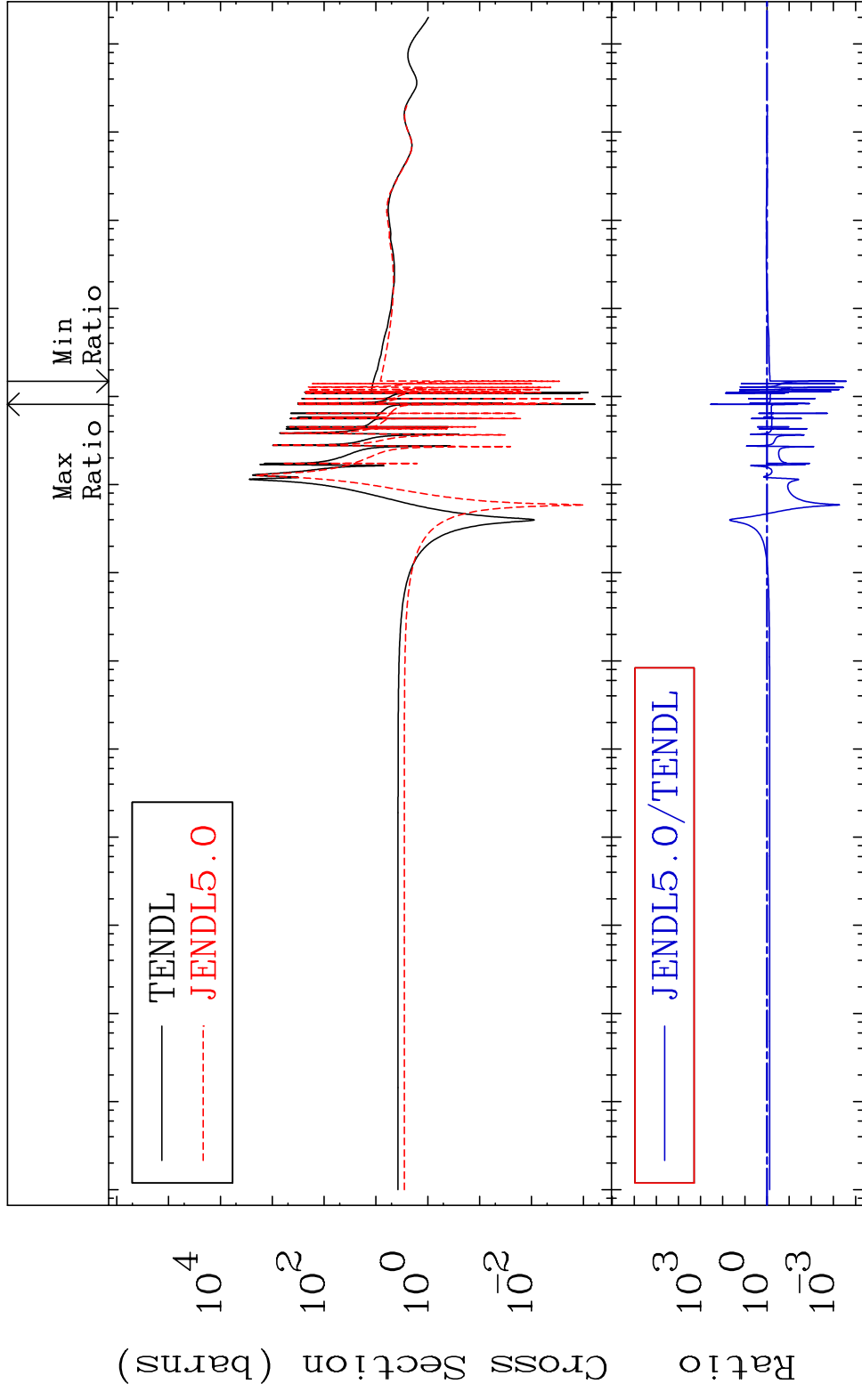
MAT 5843

Elastic

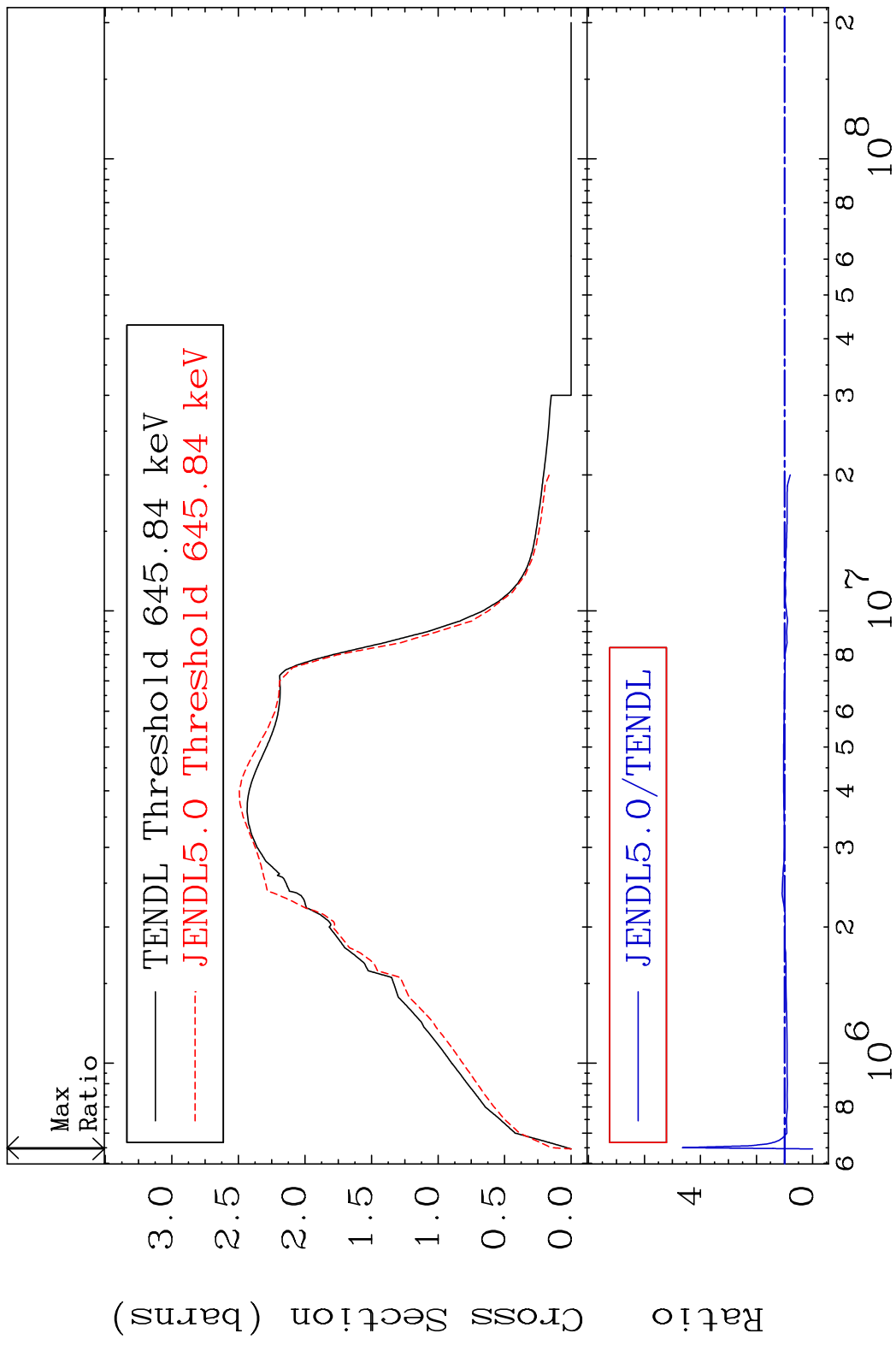
58-Ce-142

Cross Section

-99.97 To 9999. %



MAT 5843 Inelastic 58-Ce-142
 Cross Section -100.0 To 364.7 %



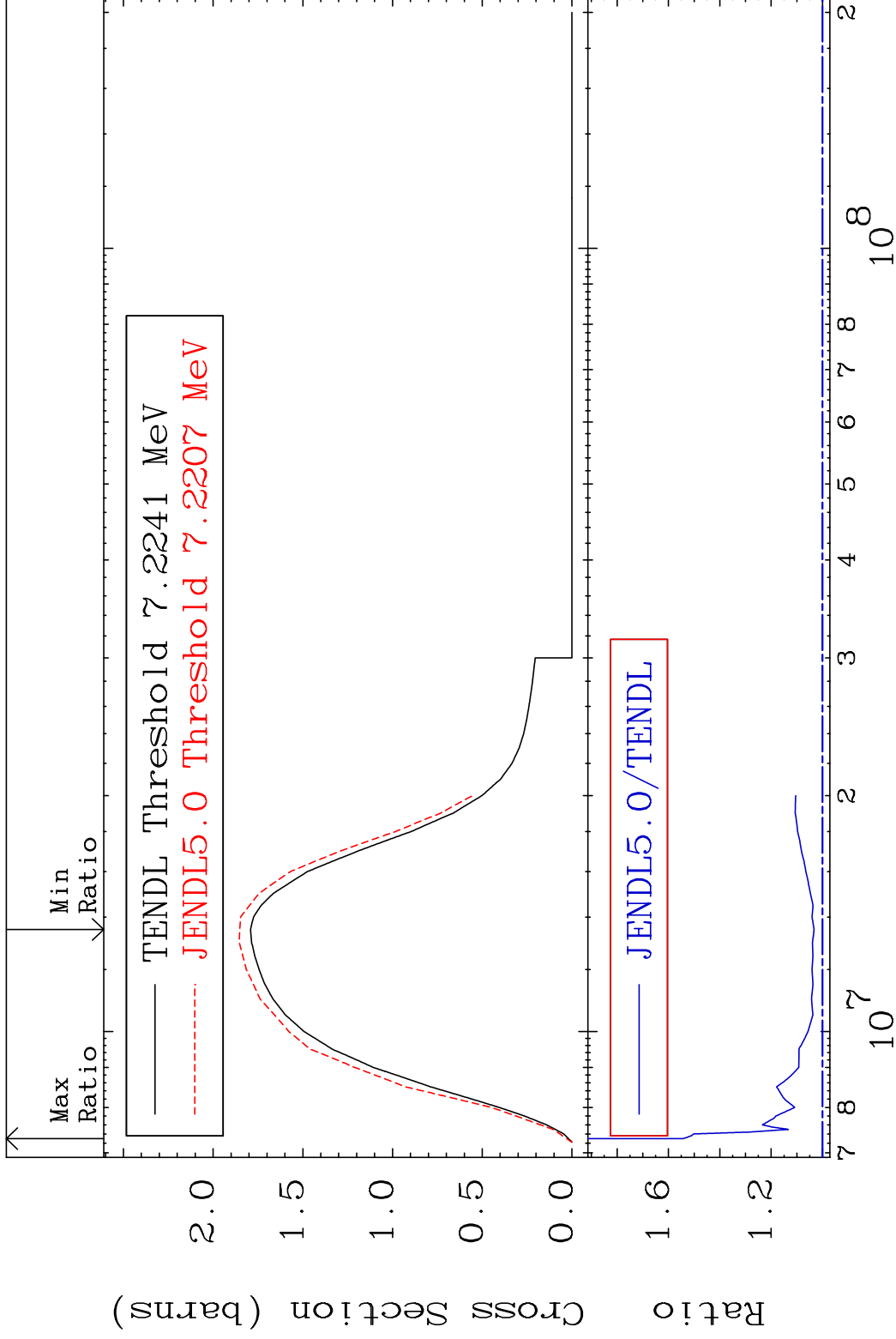
3 Incident Energy (eV) 58-Ce-142

MAT 5843

(n,2n)

58-Ce-142

Cross Section 3.317 To 54.16 %



4

Incident Energy (eV)

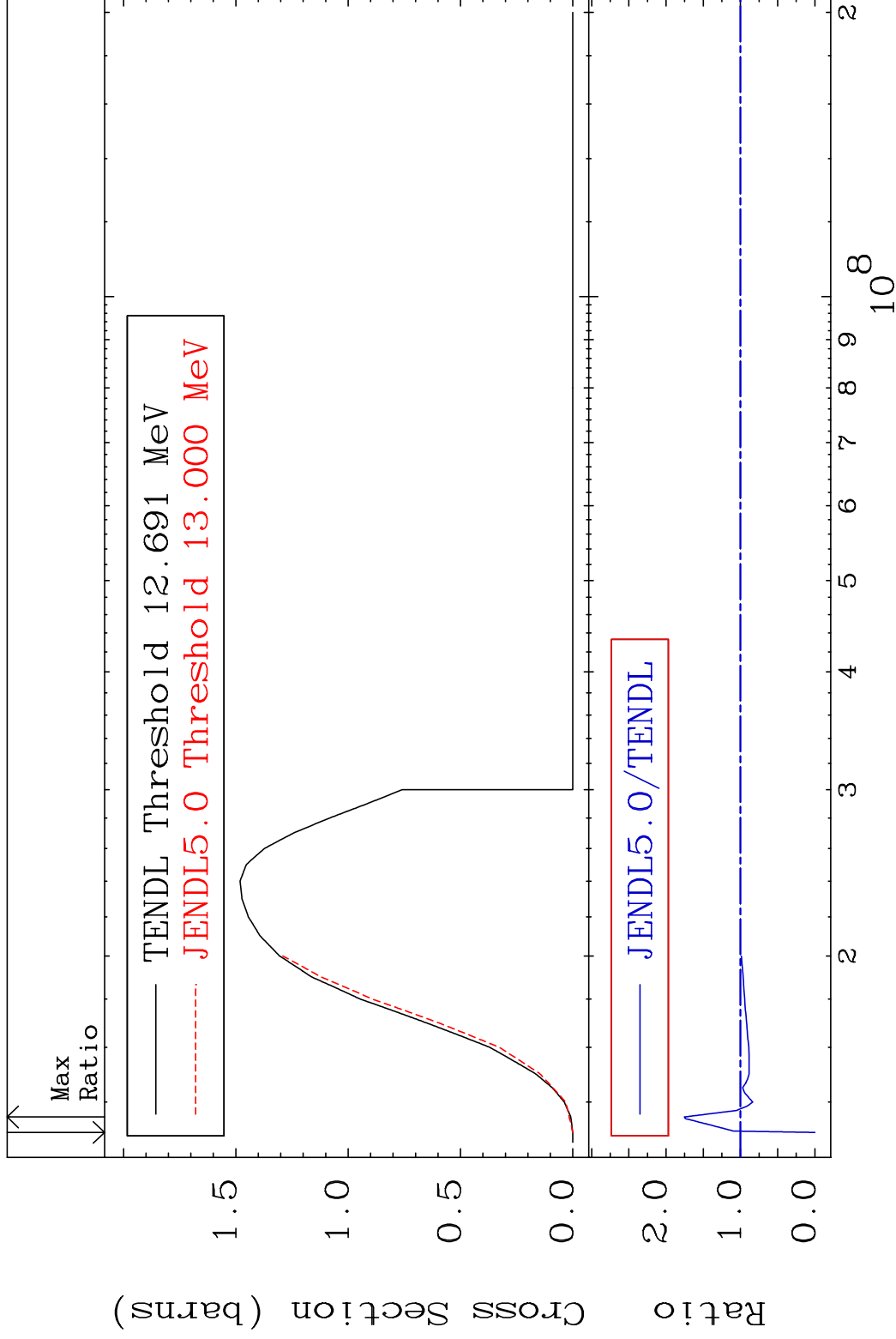
58-Ce-142

MAT 5843

(n,3n)

58-Ce-142

Cross Section -100.0 To 75.45 %



5

Incident Energy (eV)

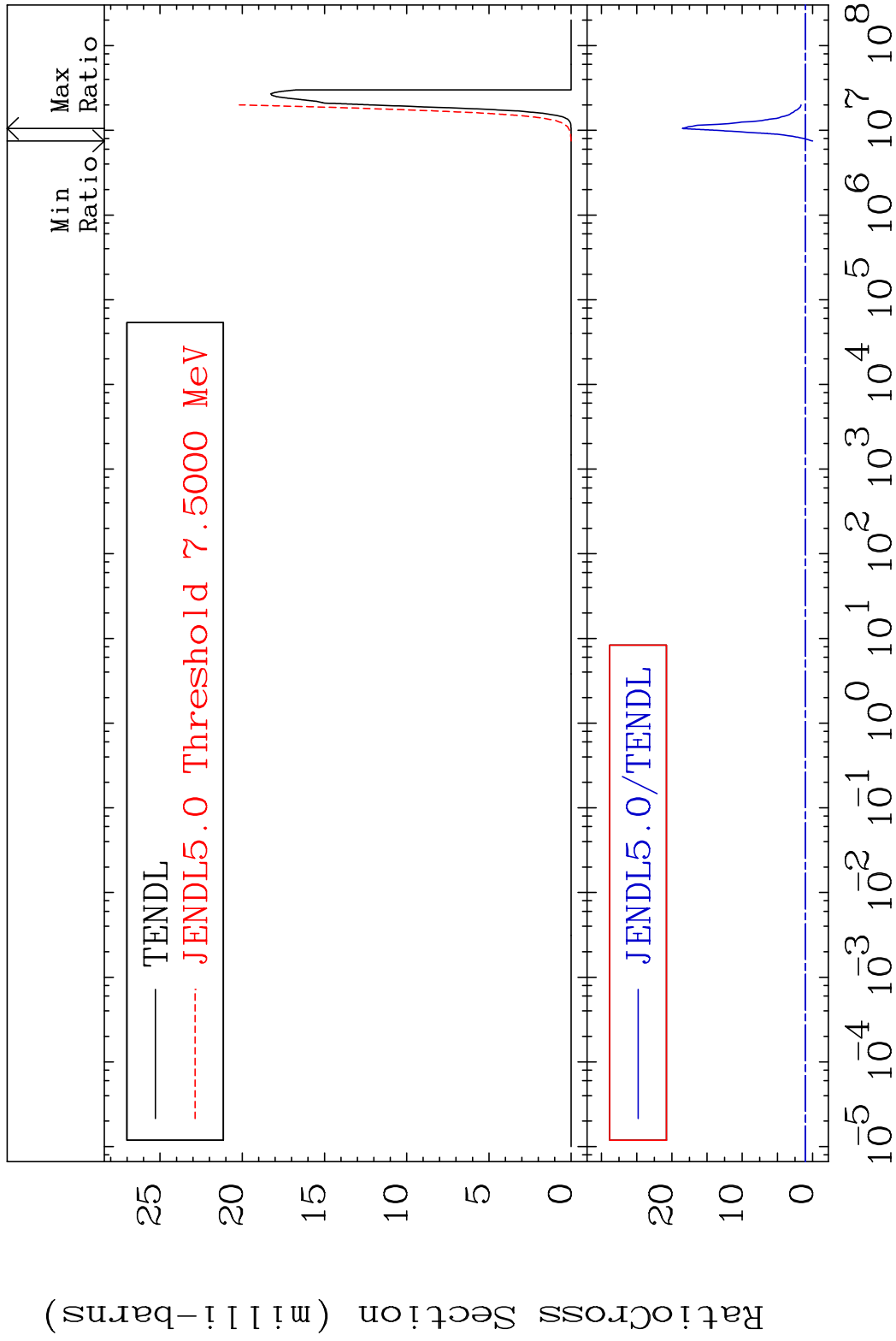
58-Ce-142

MAT 5843

(n, n') α

58-Ce-142

Cross Section -100.0 To 1751. %

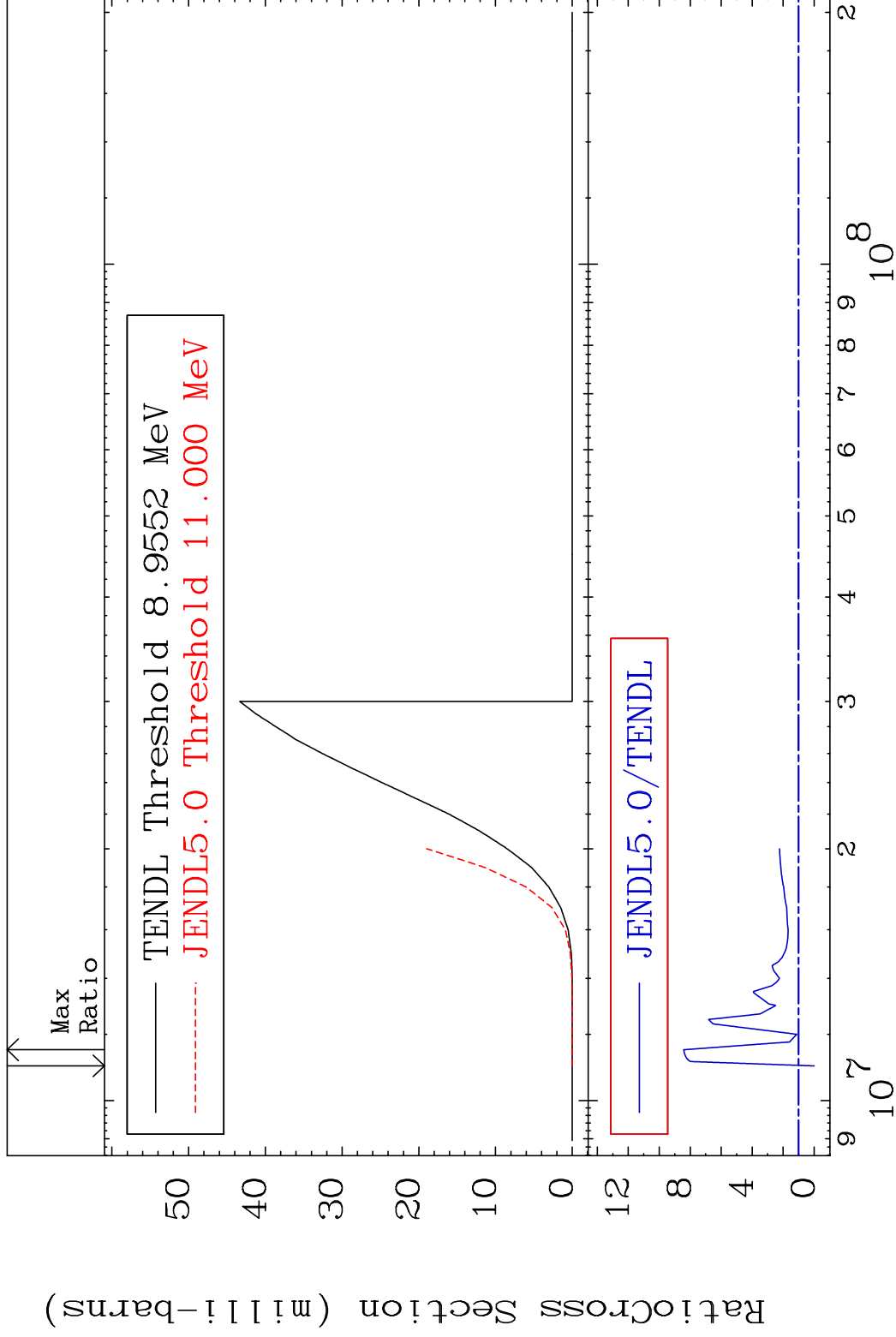


MAT 5843

(n, n') p

58-Ce-142

Cross Section -100.0 To 742.4 %



7

Incident Energy (eV)

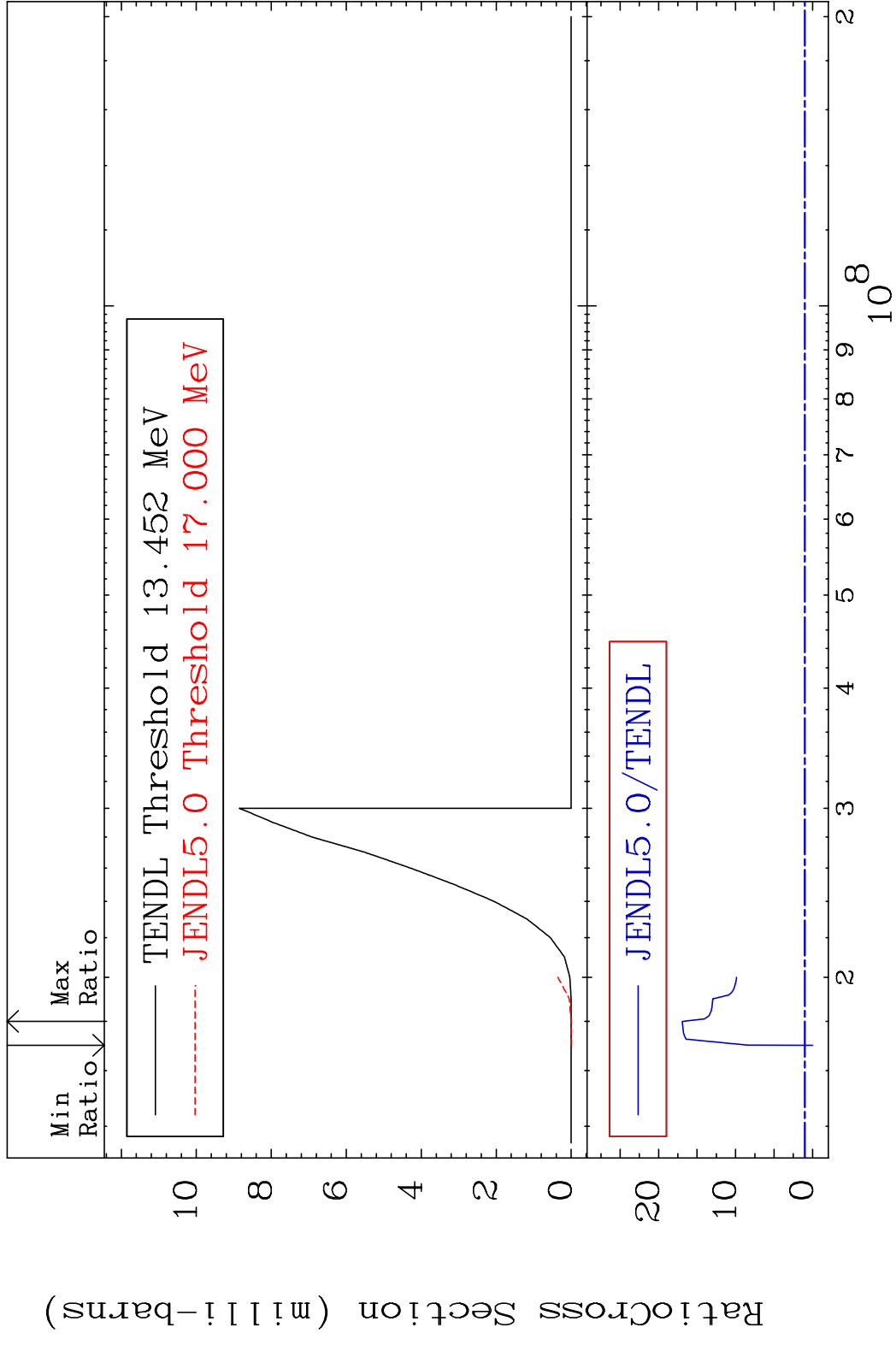
58-Ce-142

MAT 5843

(n, n') d

58-Ce-142

Cross Section -100.0 To 1591. %

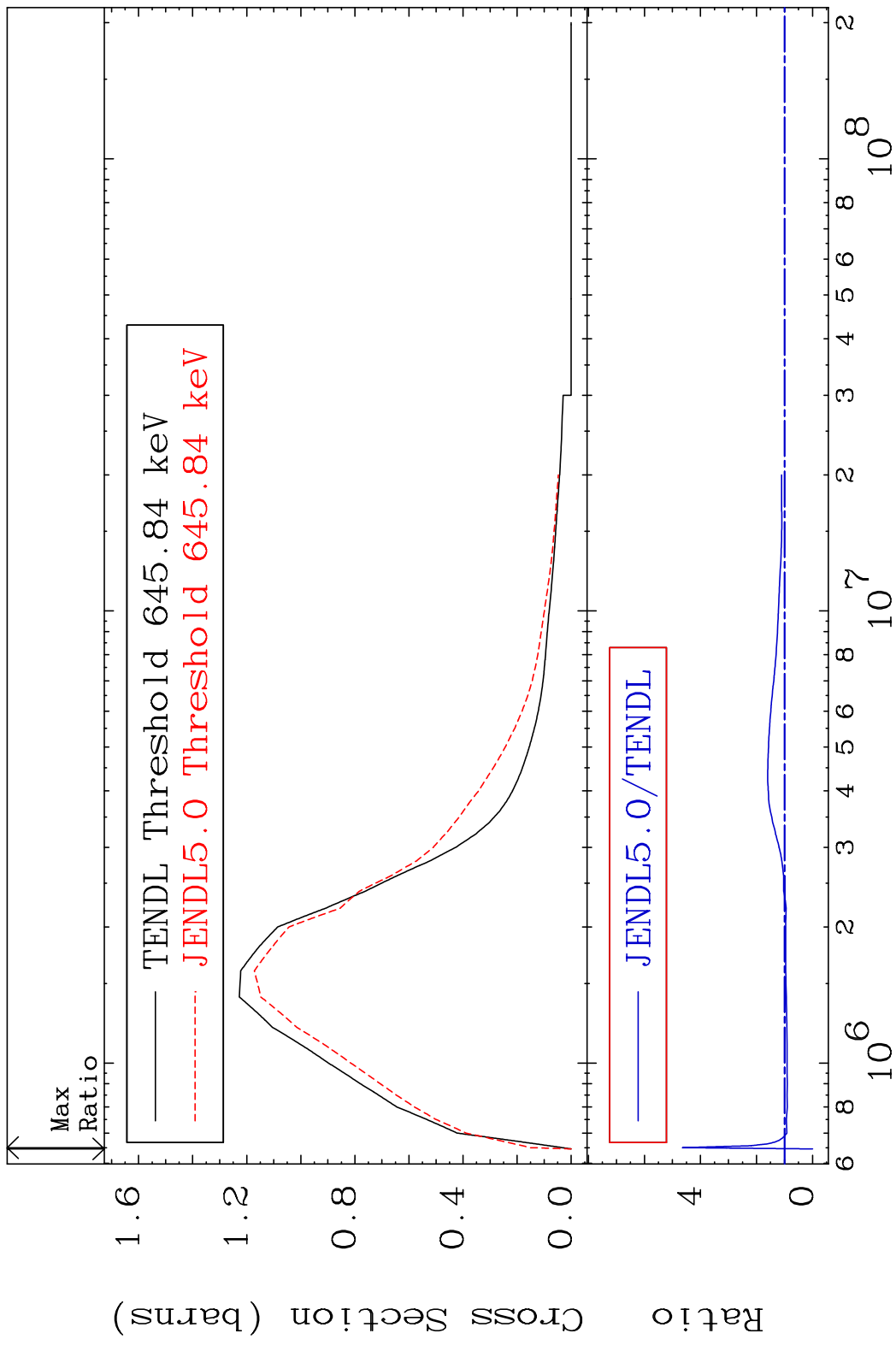


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Incident Energy (eV)

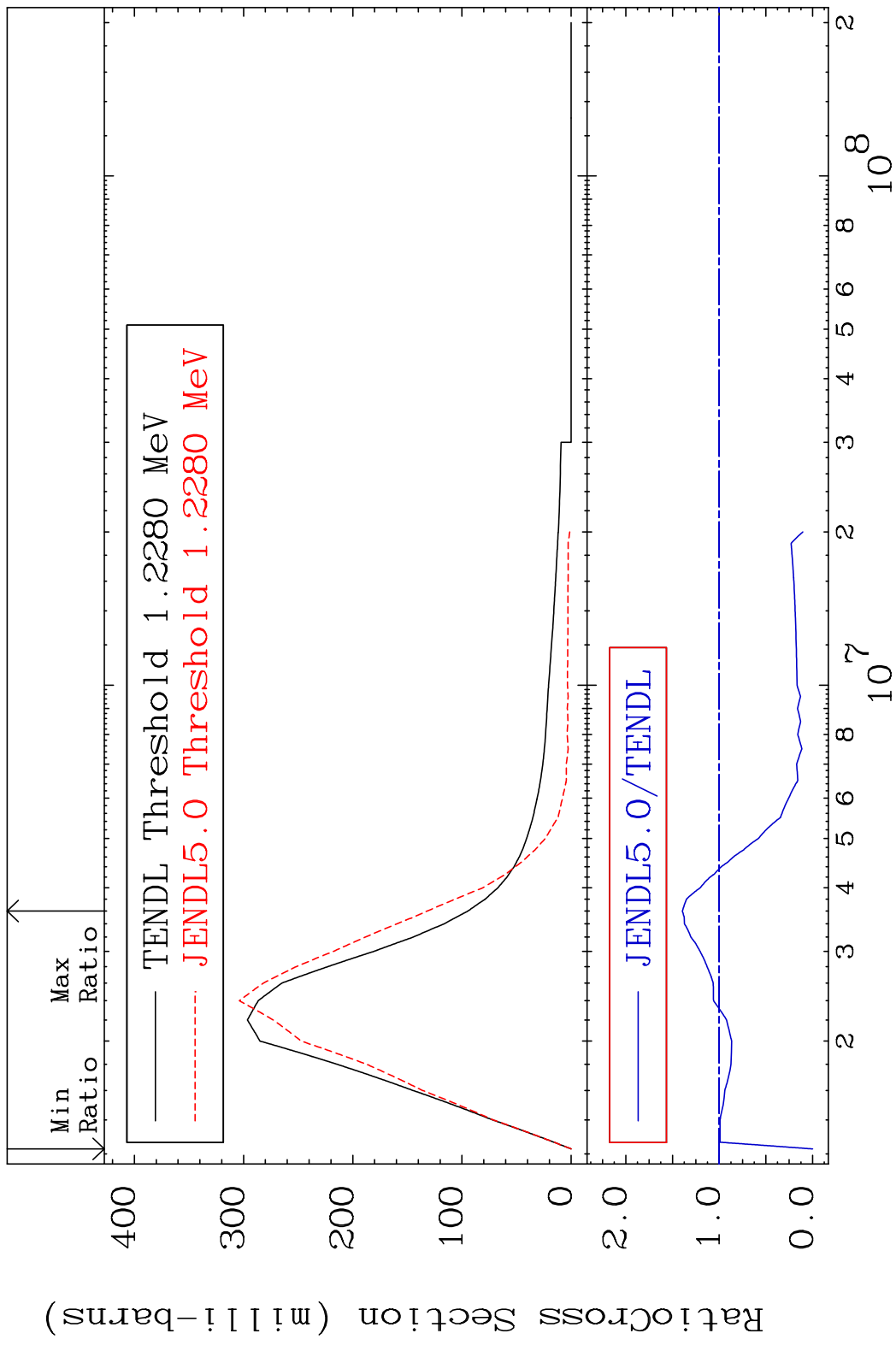
58-Ce-142

MAT 5843 MT= 51 (n, n') Level 58-Ce-142
 Cross Section -100.0 To 364.7 %



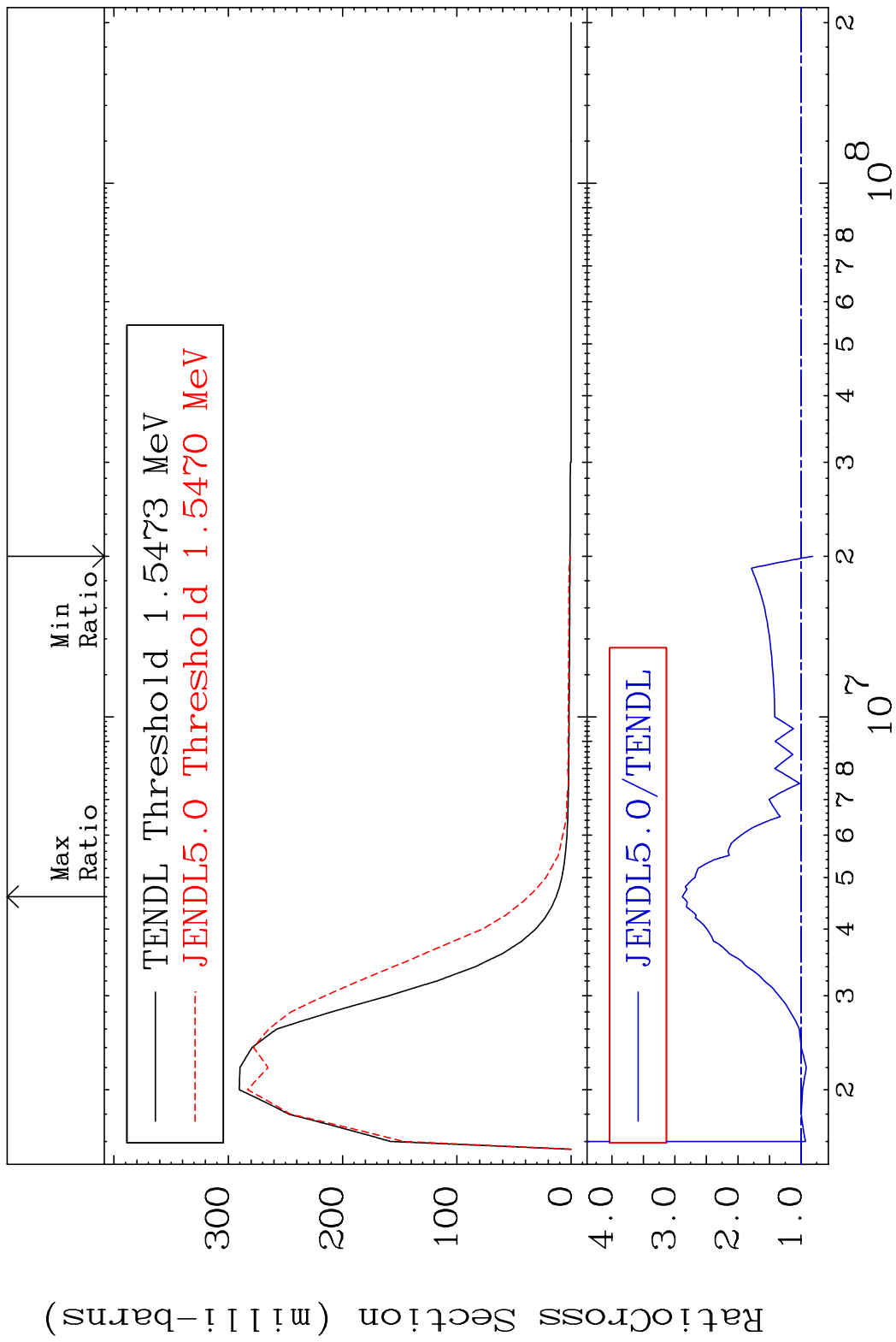
9 Incident Energy (eV) 58-Ce-142

MAT 5843 MT= 52 (n, n') Level 58-Ce-142
 Cross Section -100.0 To 39.44 %

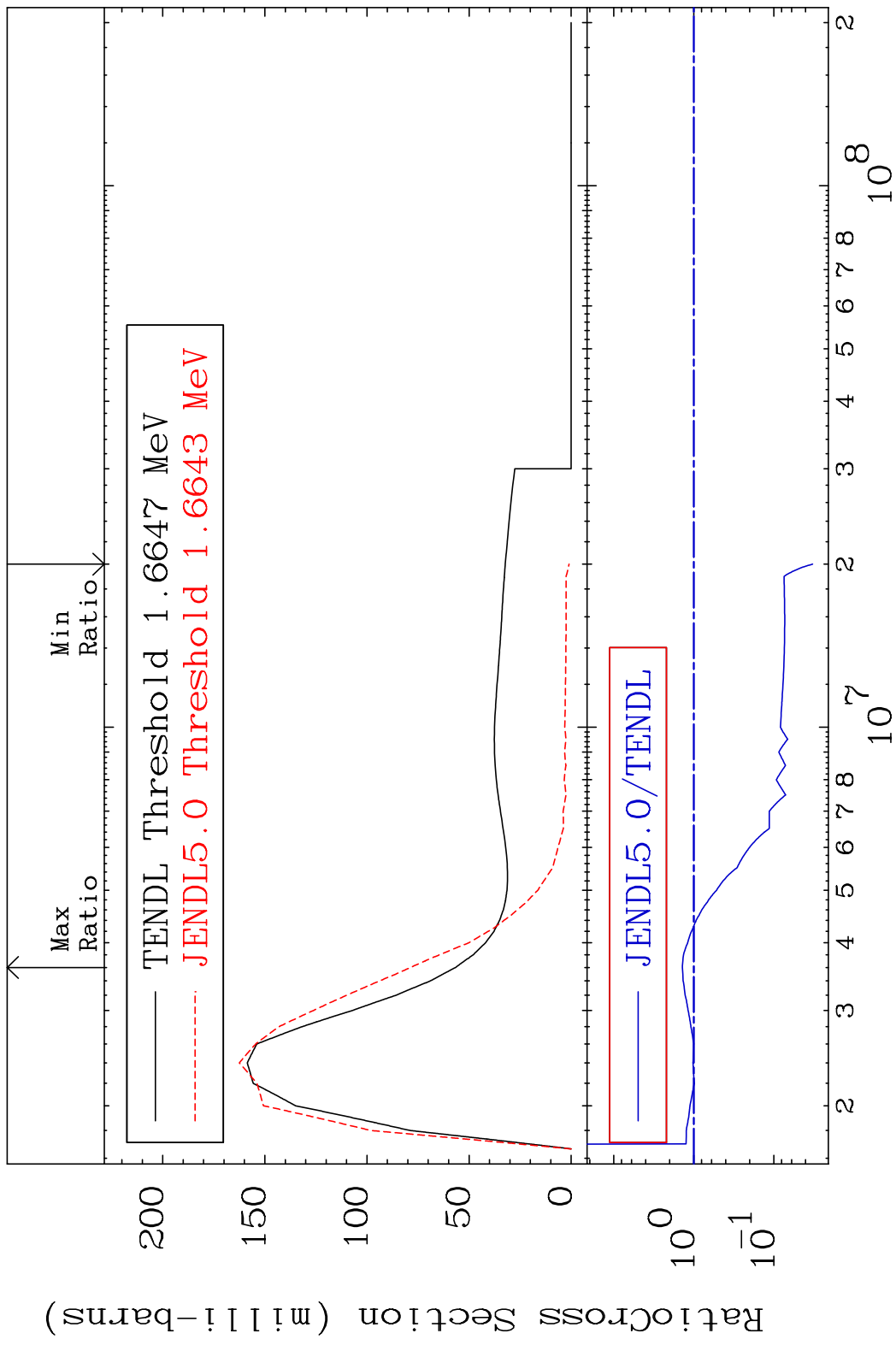


10 Incident Energy (eV) 58-Ce-142

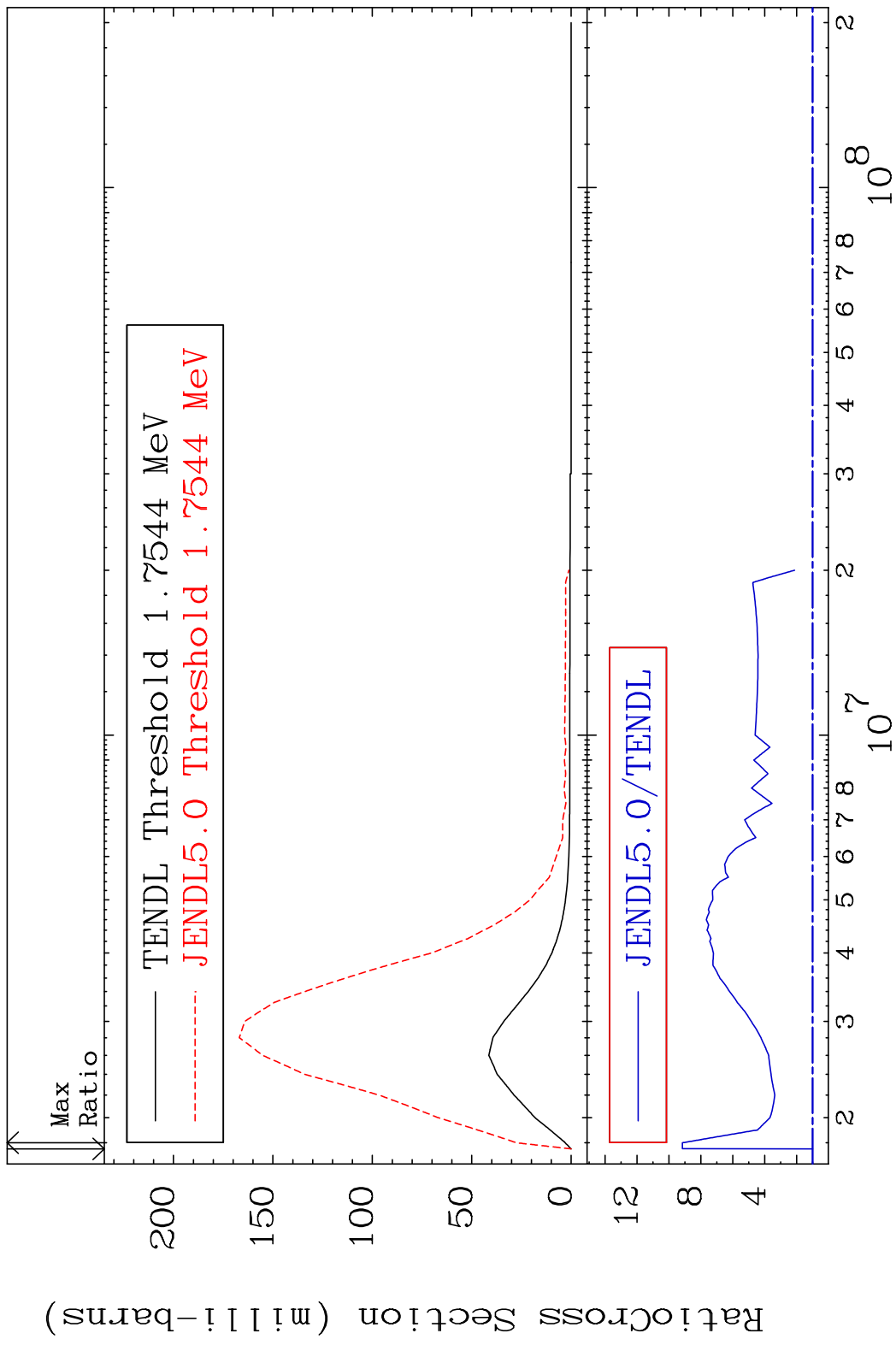
MAT 5843 MT= 53 (n, n') Level 58-Ce-142
 Cross Section -18.36 To 188.2 %



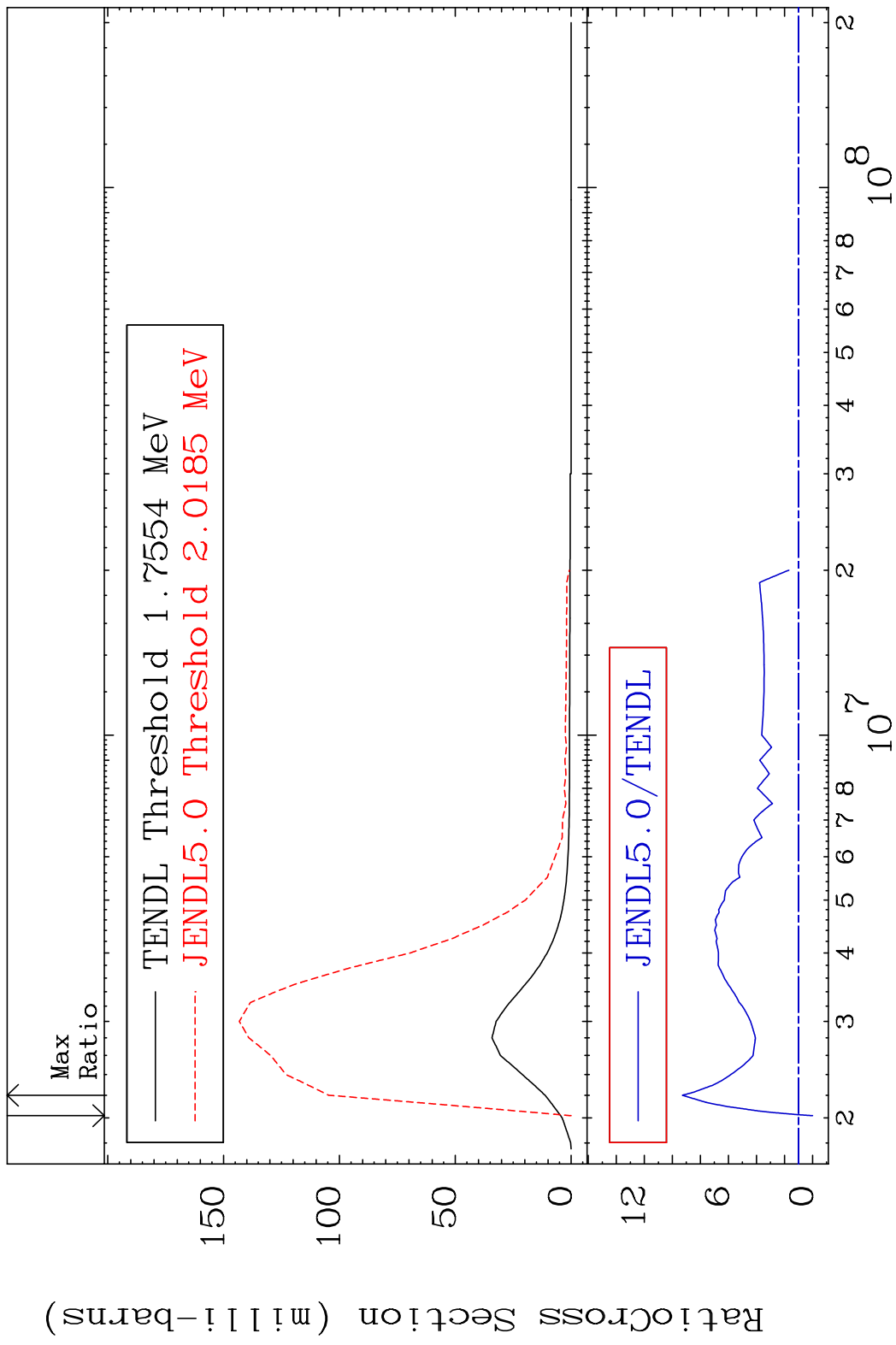
MAT 5843 MT= 54 (n, n') Level 58-Ce-142
 Cross Section -96.72 To 39.05 %



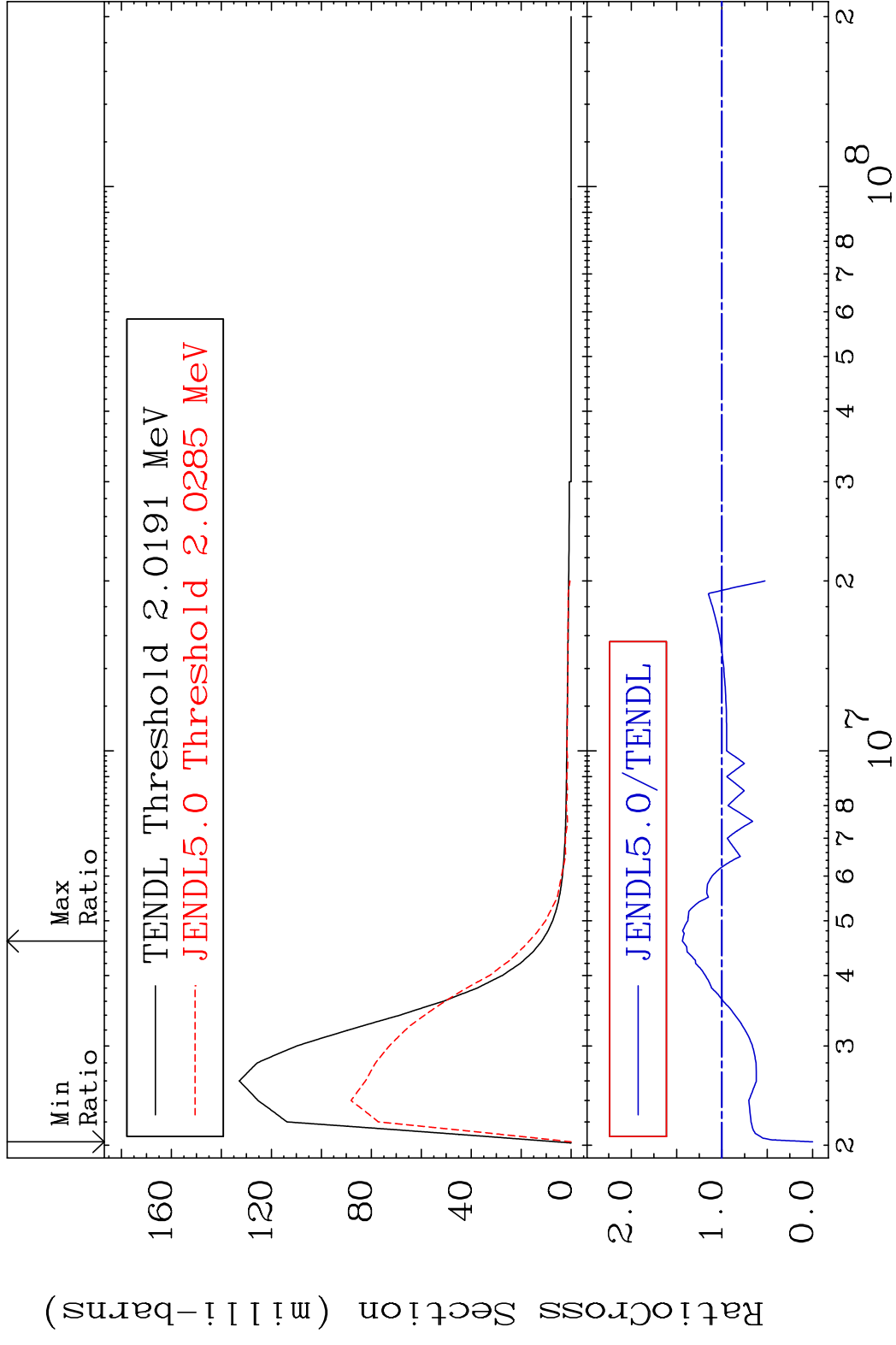
MAT 5843 MT= 55 (n, n') Level 58-Ce-142
 Cross Section 0.000 To 815.9 %



MAT 5843 MT= 56 (n,n') Level 58-Ce-142
 Cross Section -100.0 To 828.7 %

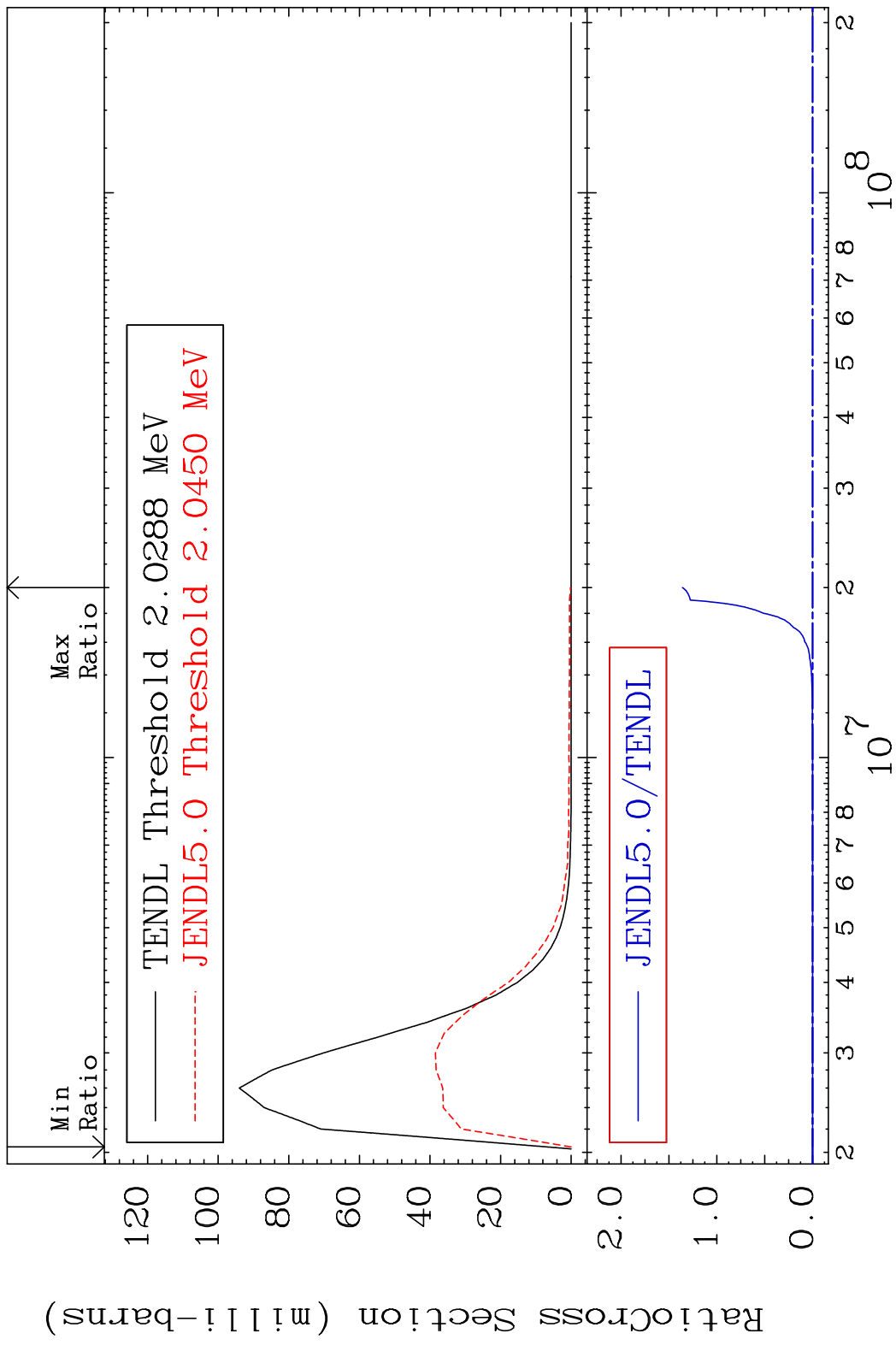


MAT 5843 MT= 57 (n,n') Level 58-Ce-142
 Cross Section -100.0 To 43.65 %

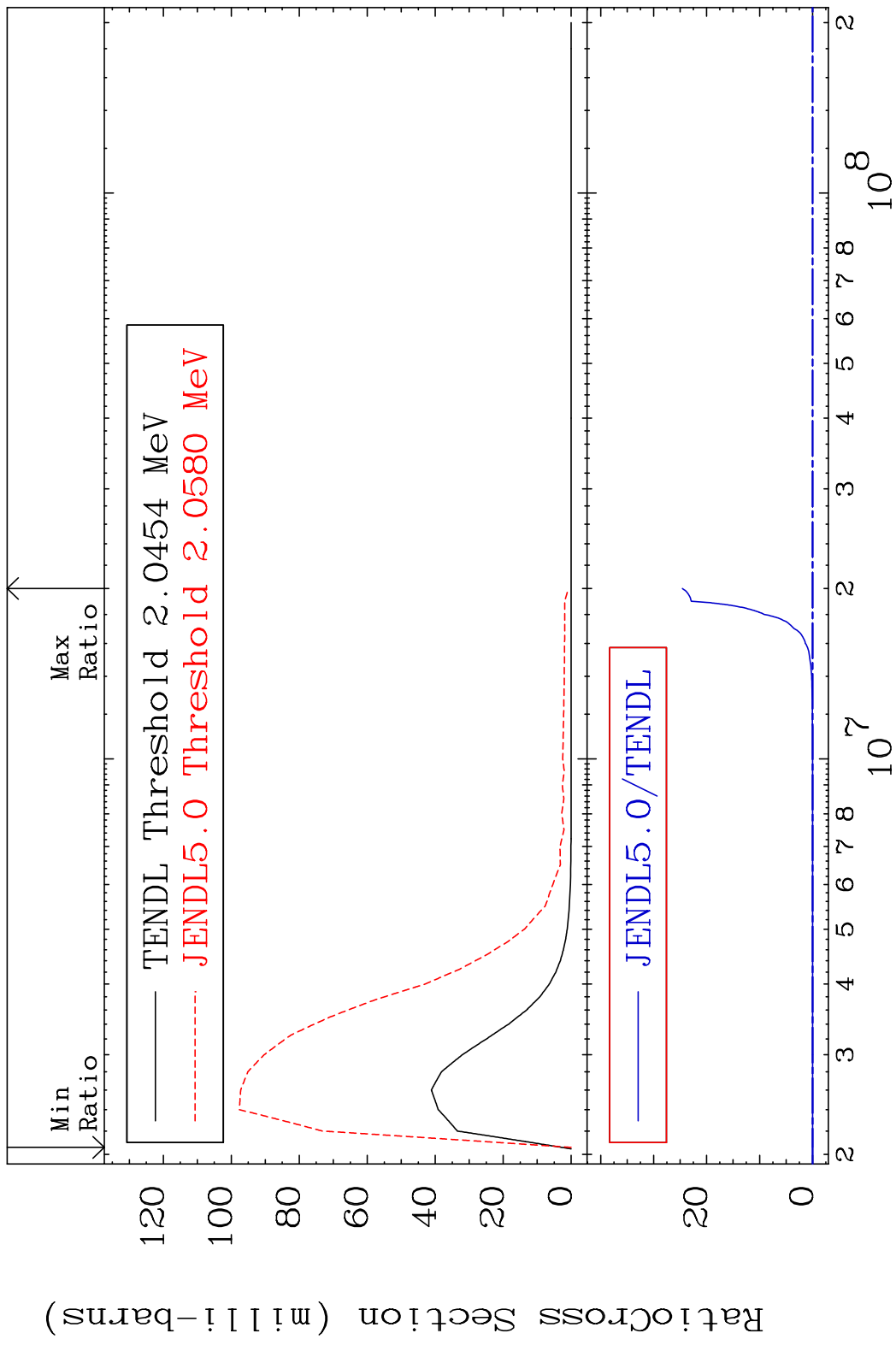


15 Incident Energy (eV) 58-Ce-142

MAT 5843 MT= 58 (n, n') Level 58-Ce-142
 Cross Section -100.0 To 9999. %

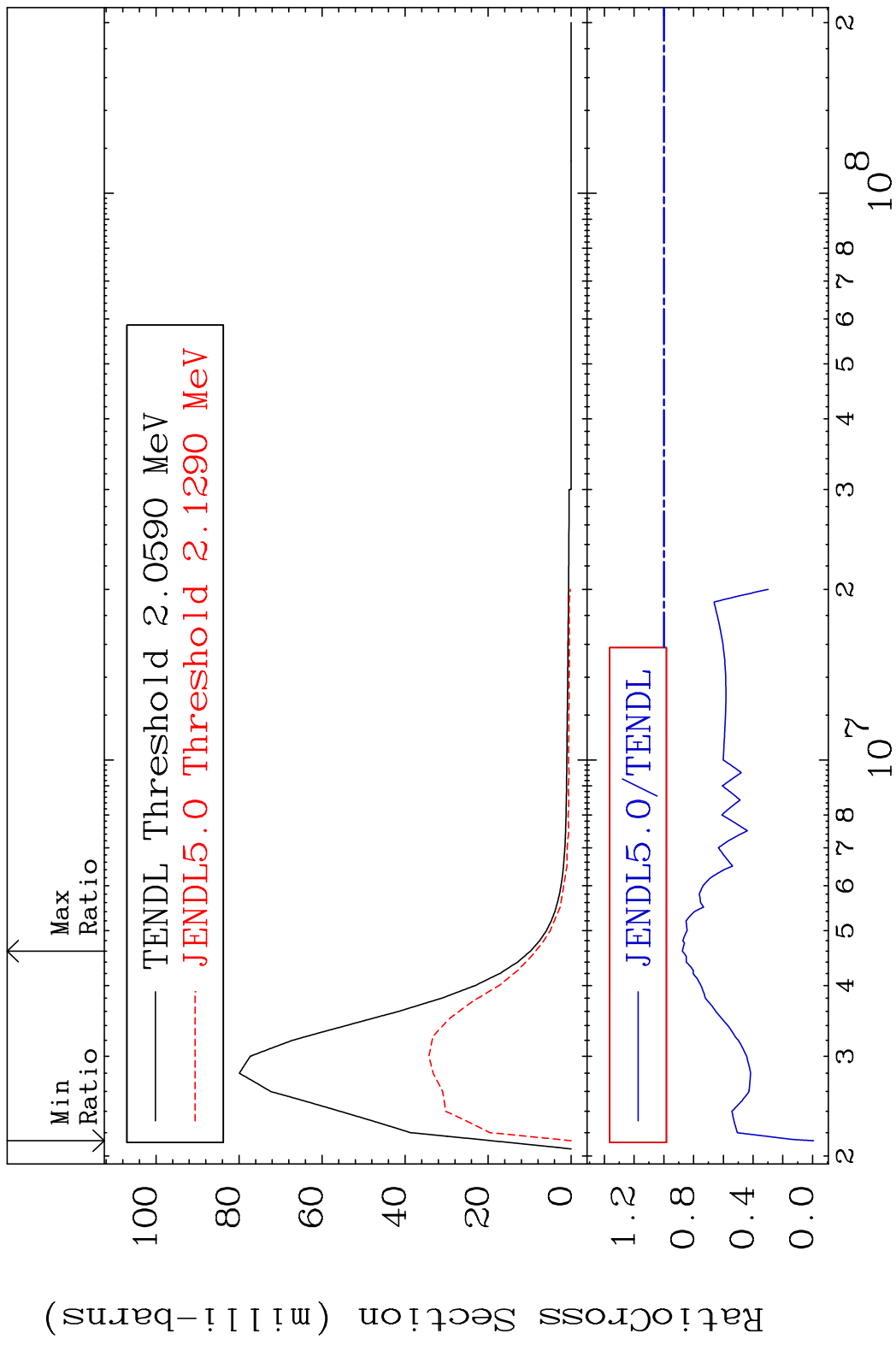


MAT 5843 MT= 59 (n, n') Level 58-Ce-142
 Cross Section -100.0 To 9999. %



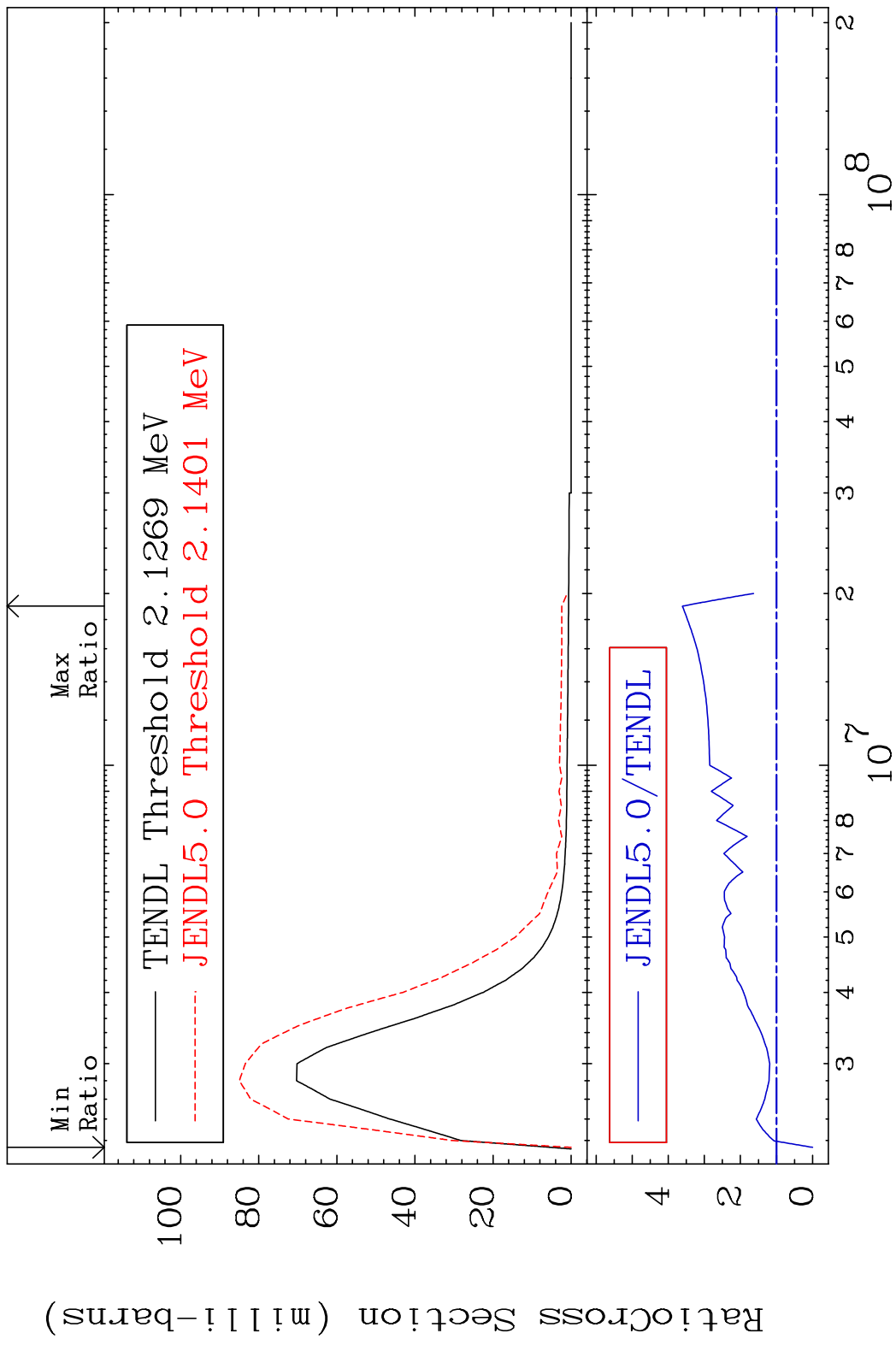
17 Incident Energy (eV) 58-Ce-142

MAT 5843 MT= 60 (n,n') Level 58-Ce-142
 Cross Section -100.0 To -12.45%

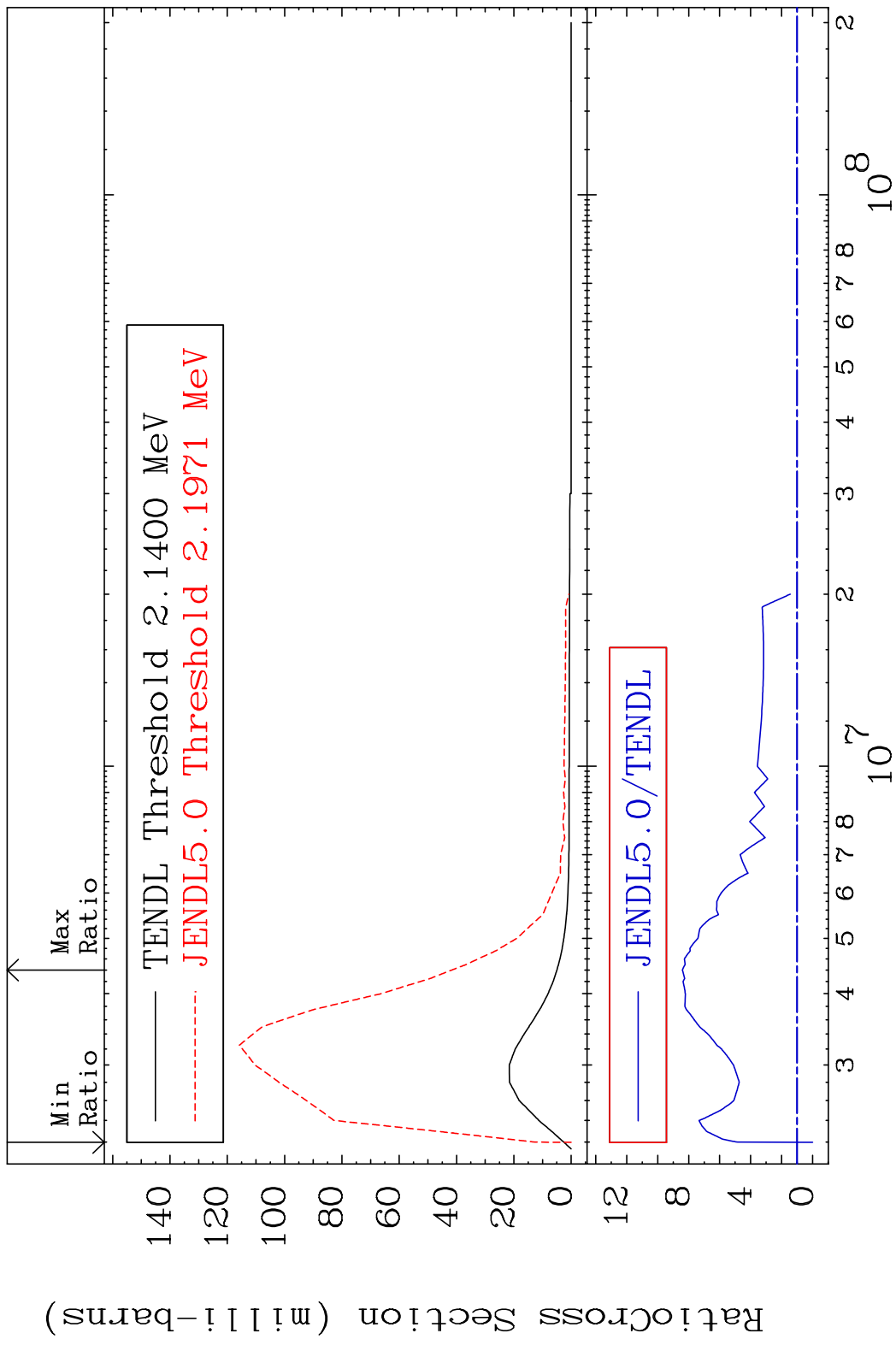


18 Incident Energy (eV) 58-Ce-142

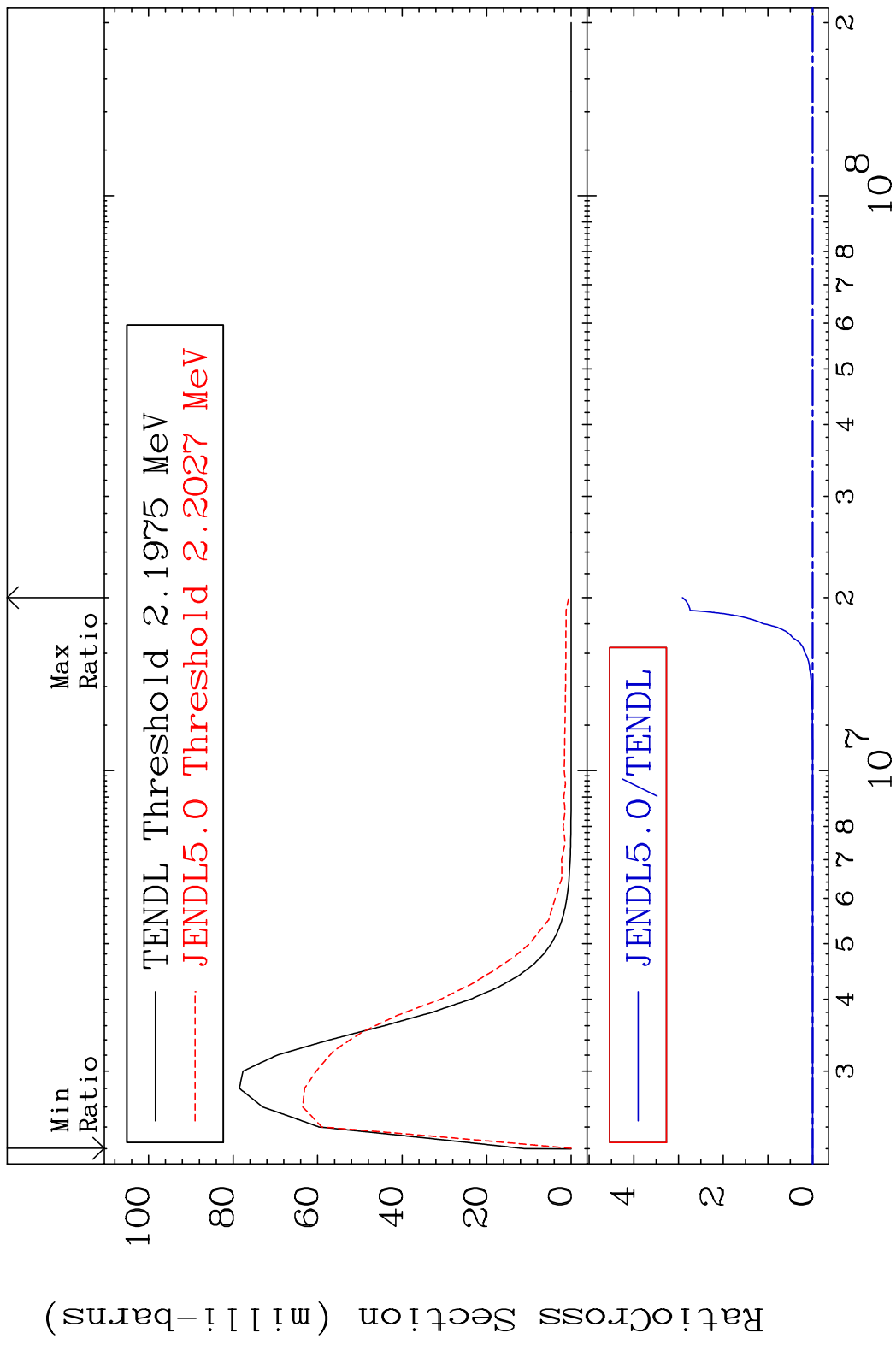
MAT 5843 MT= 61 (n, n') Level 58-Ce-142
 Cross Section -100.0 To 261.0 %



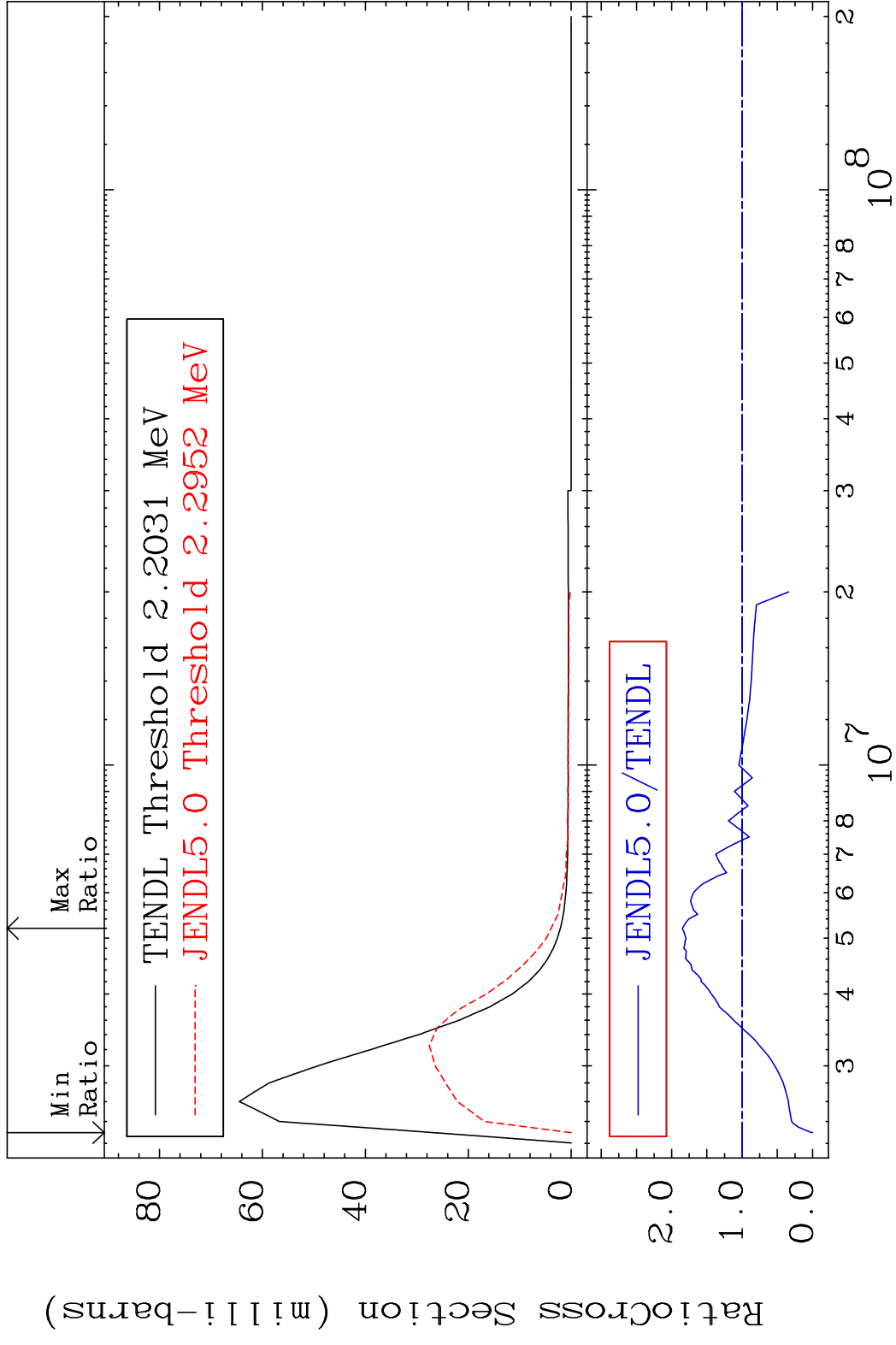
MAT 5843 MT= 62 (n, n') Level 58-Ce-142
 Cross Section -100.0 To 741.0 %



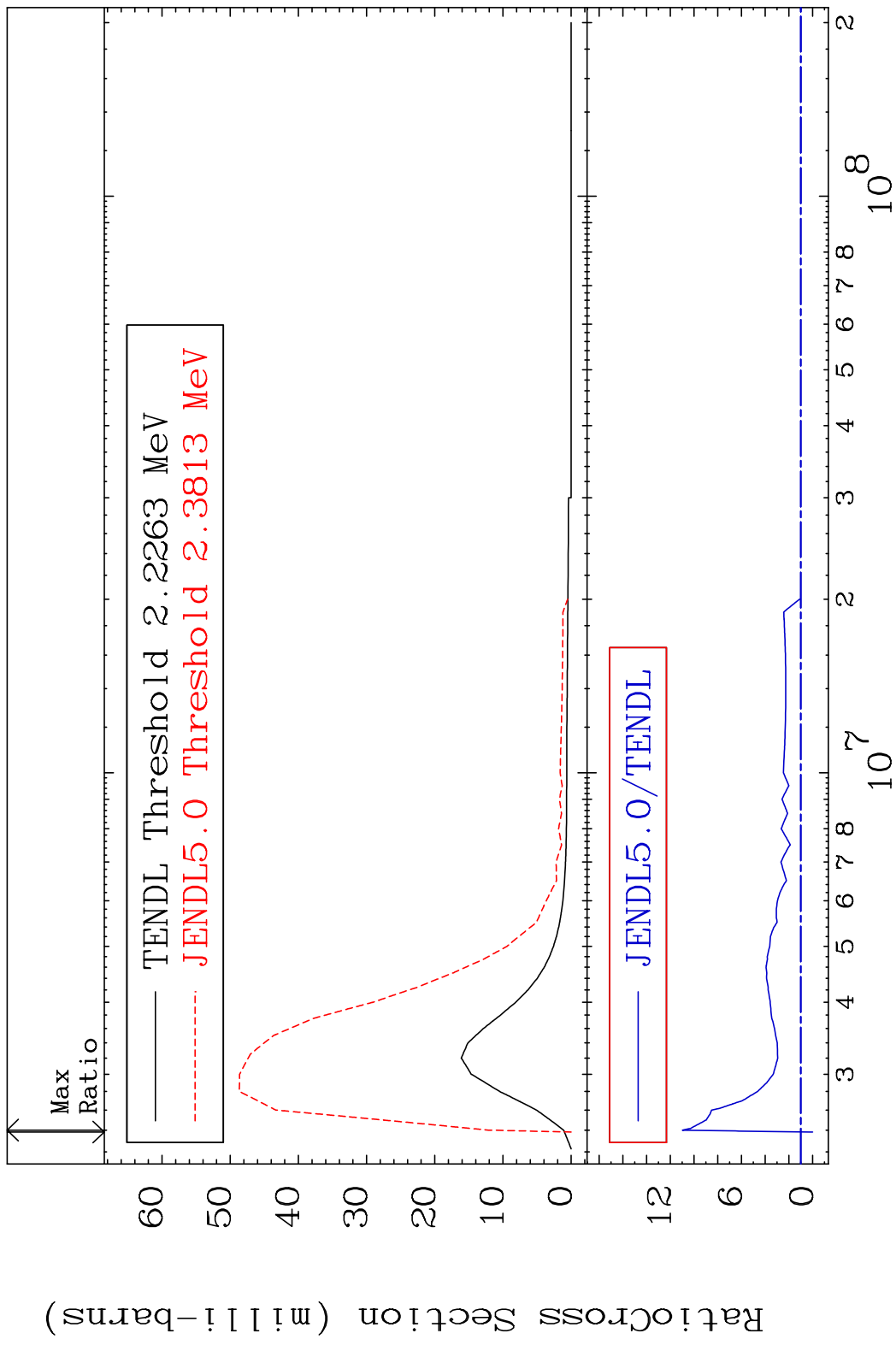
MAT 5843 MT= 63 (n, n') Level 58-Ce-142
 Cross Section -100.0 To 9999. %



MAT 5843 MT= 64 (n,n') Level 58-Ce-142
 Cross Section -100.0 To 84.84 %



MAT 5843 MT= 65 (n, n') Level 58-Ce-142
 Cross Section -100.0 To 998.4 %



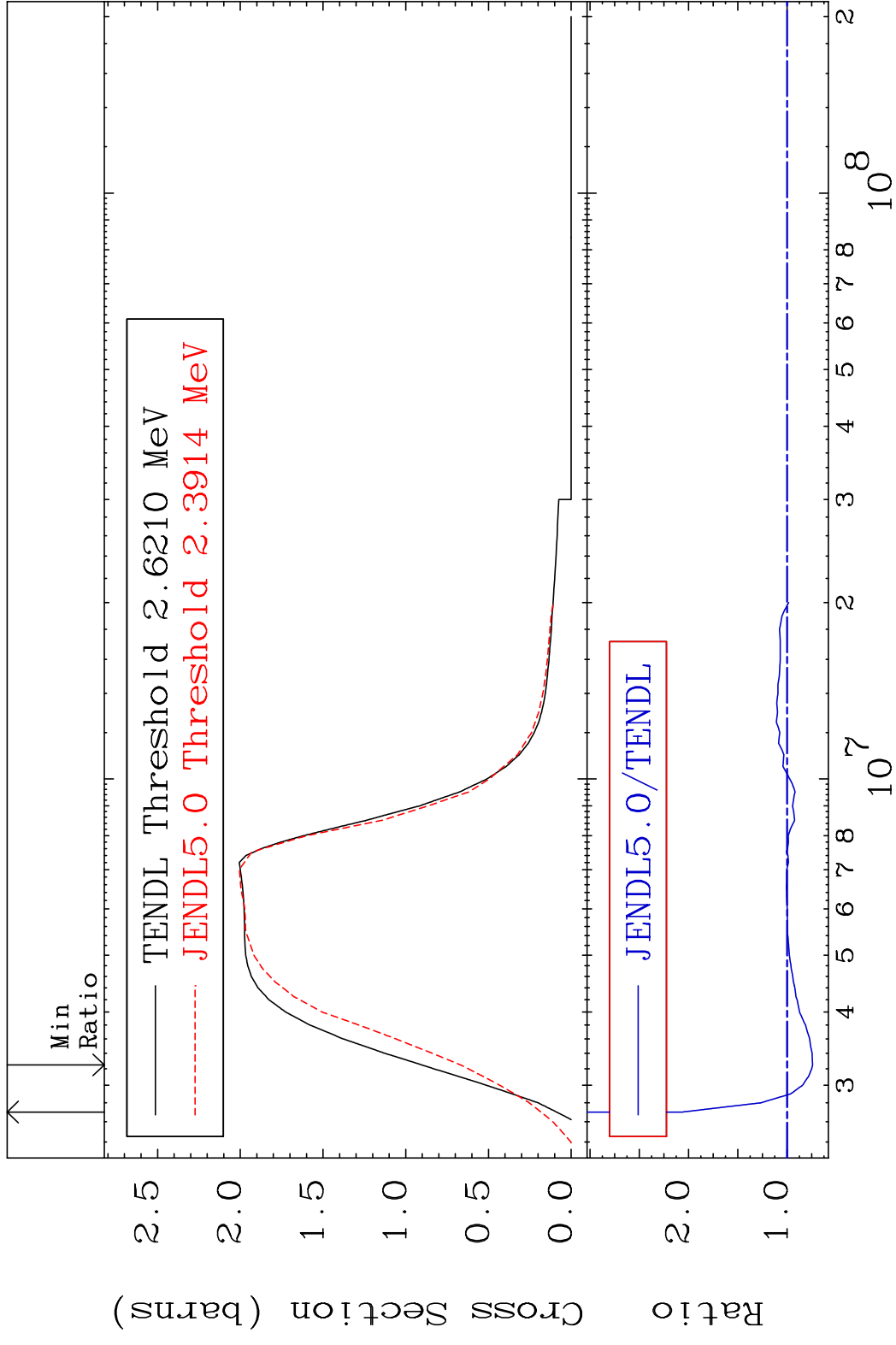
MAT 5843

(n, n') Continuum

58-Ce-142

Cross Section

-25.96 To 106.2 %



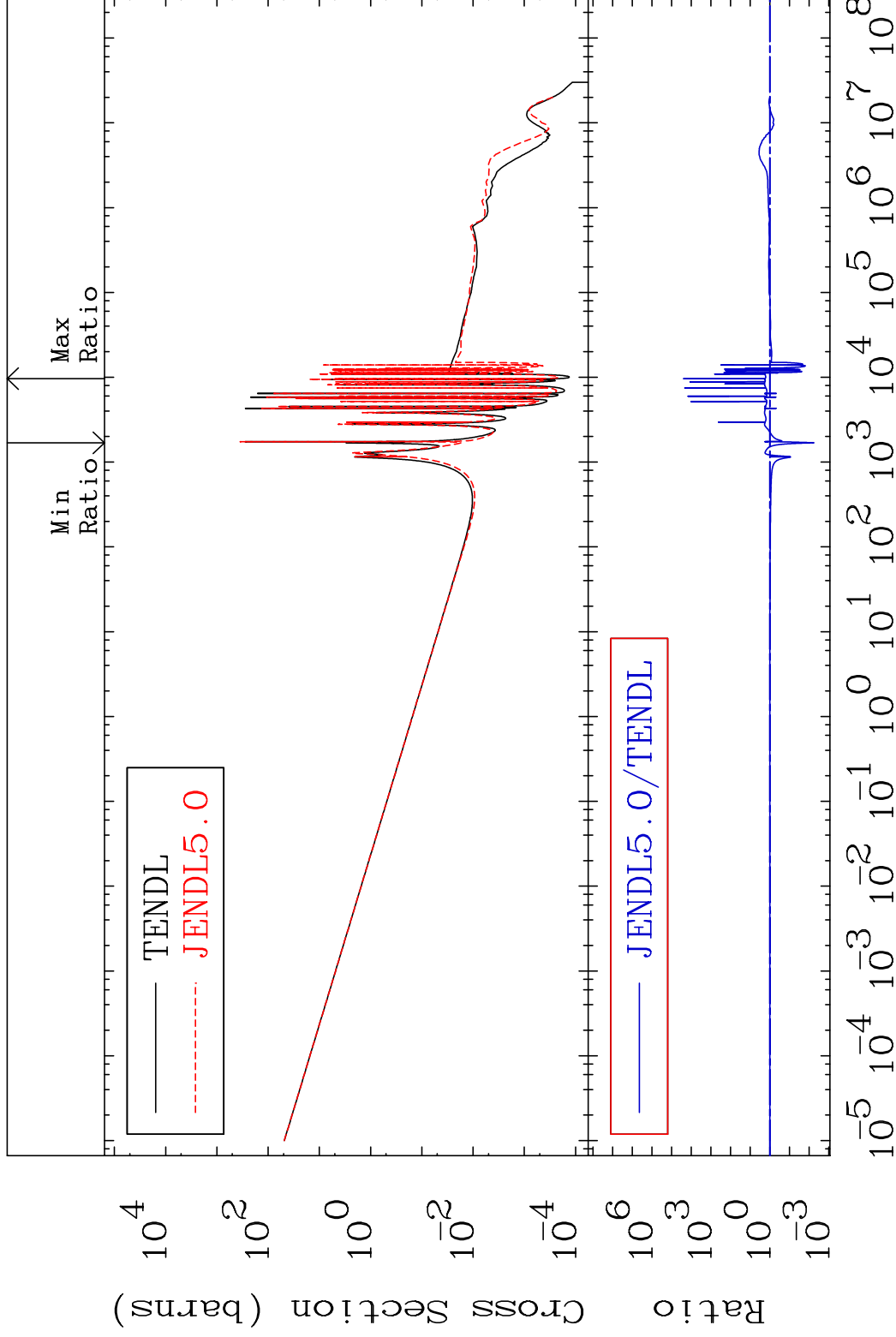
MAT 5843

(n, γ)

58-Ce-142

Cross Section

-99.44 To 9999. %



25

Incident Energy (eV)

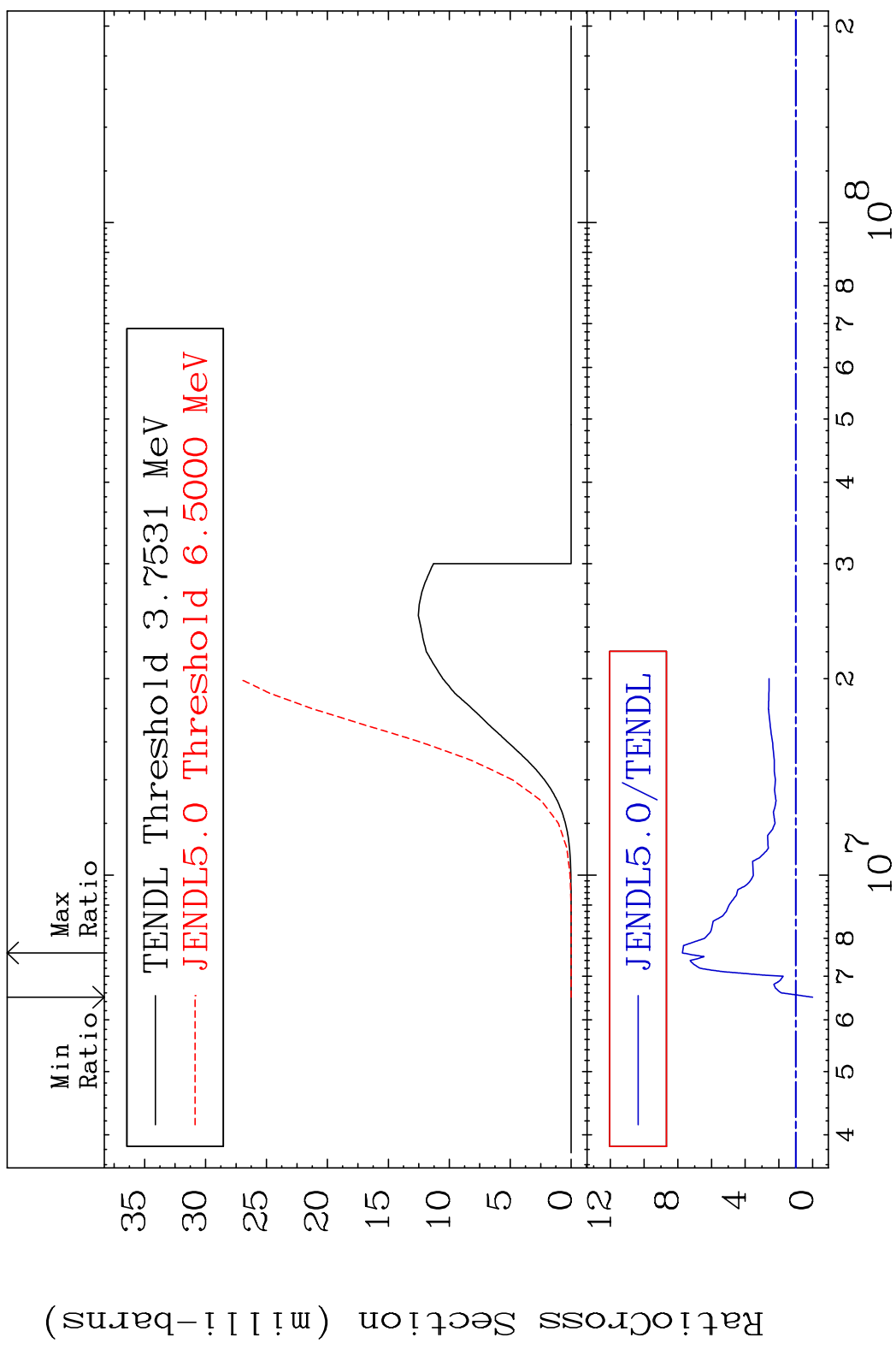
58-Ce-142

MAT 5843

(n,p)

58-Ce-142

Cross Section -100.0 To 673.0 %

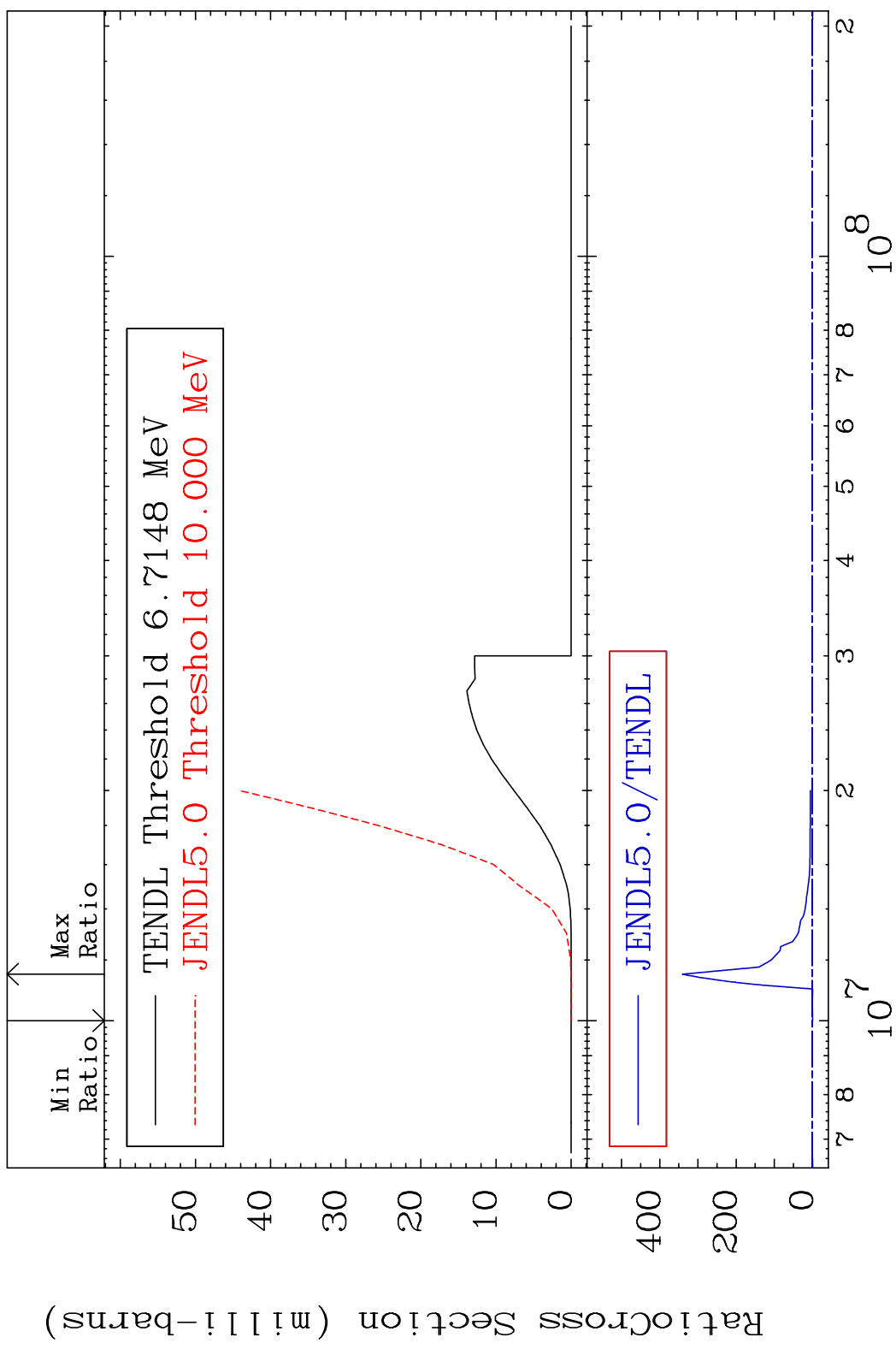


MAT 5843

(n,d)

58-Ce-142

Cross Section -100.0 To 9999. %

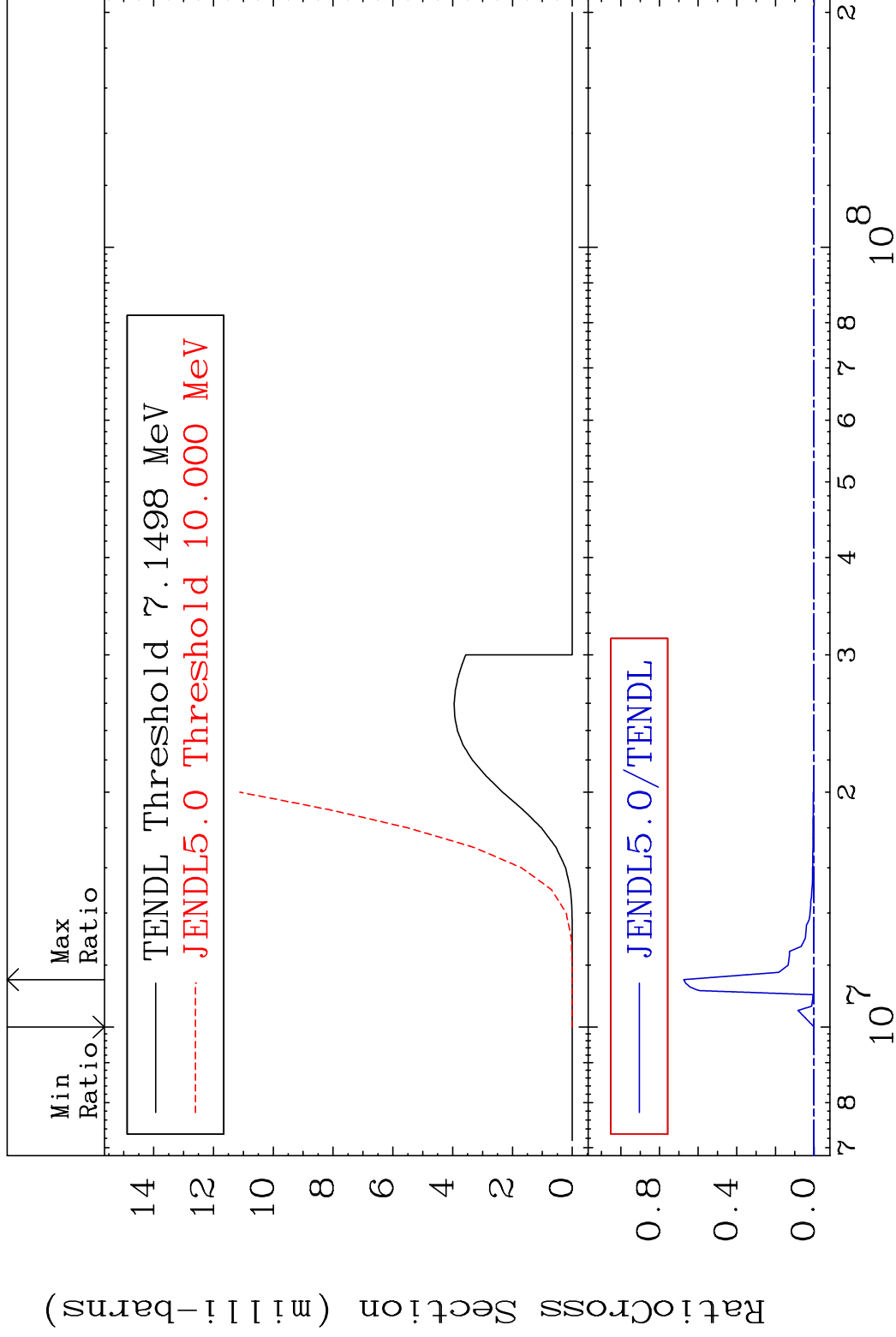


MAT 5843

(n, t)

58-Ce-142

Cross Section -100.0 To 9999. %



28

Incident Energy (eV)

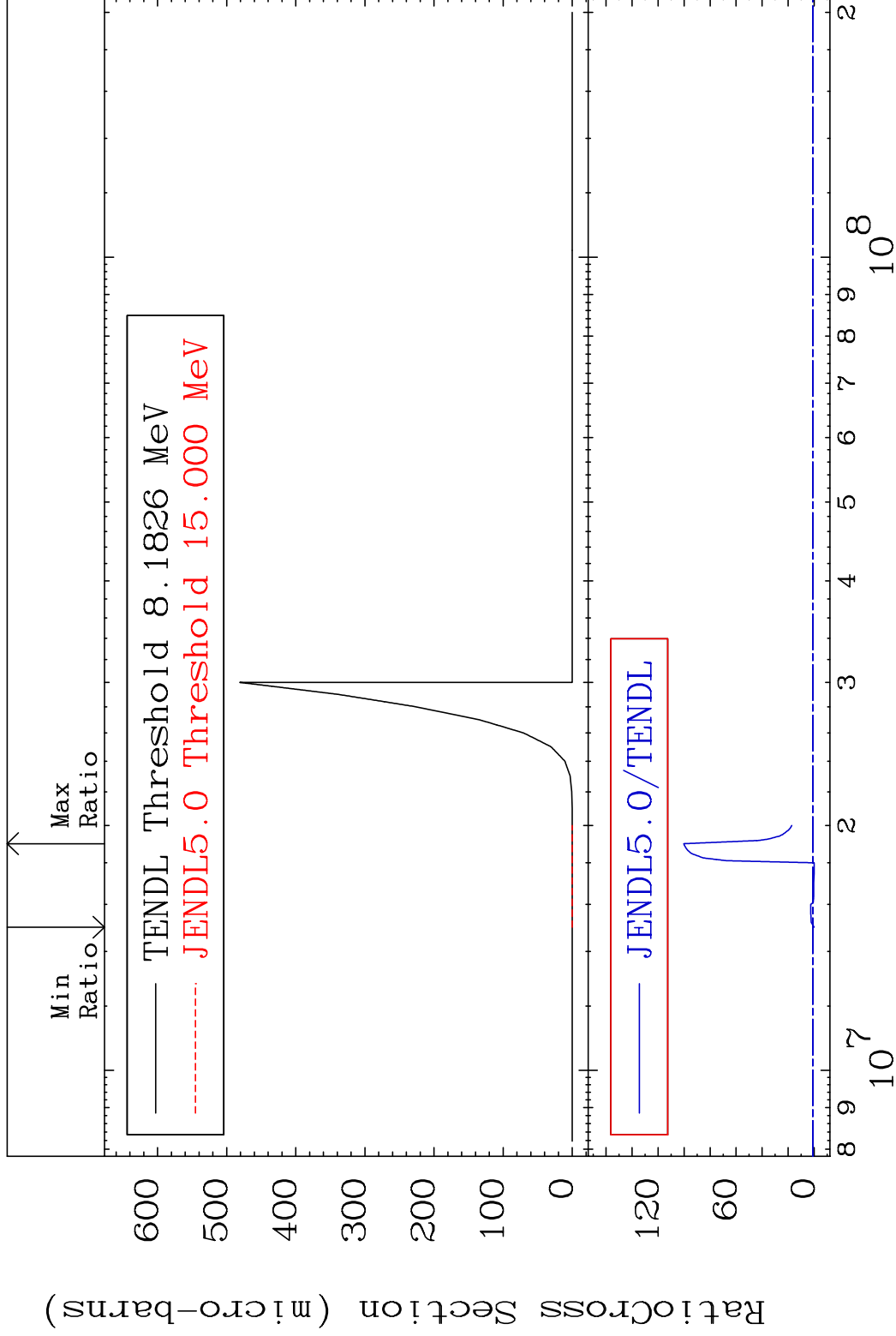
58-Ce-142

MAT 5843

(n, He-3)

58-Ce-142

Cross Section -100.0 To 9935. %



29

Incident Energy (eV)

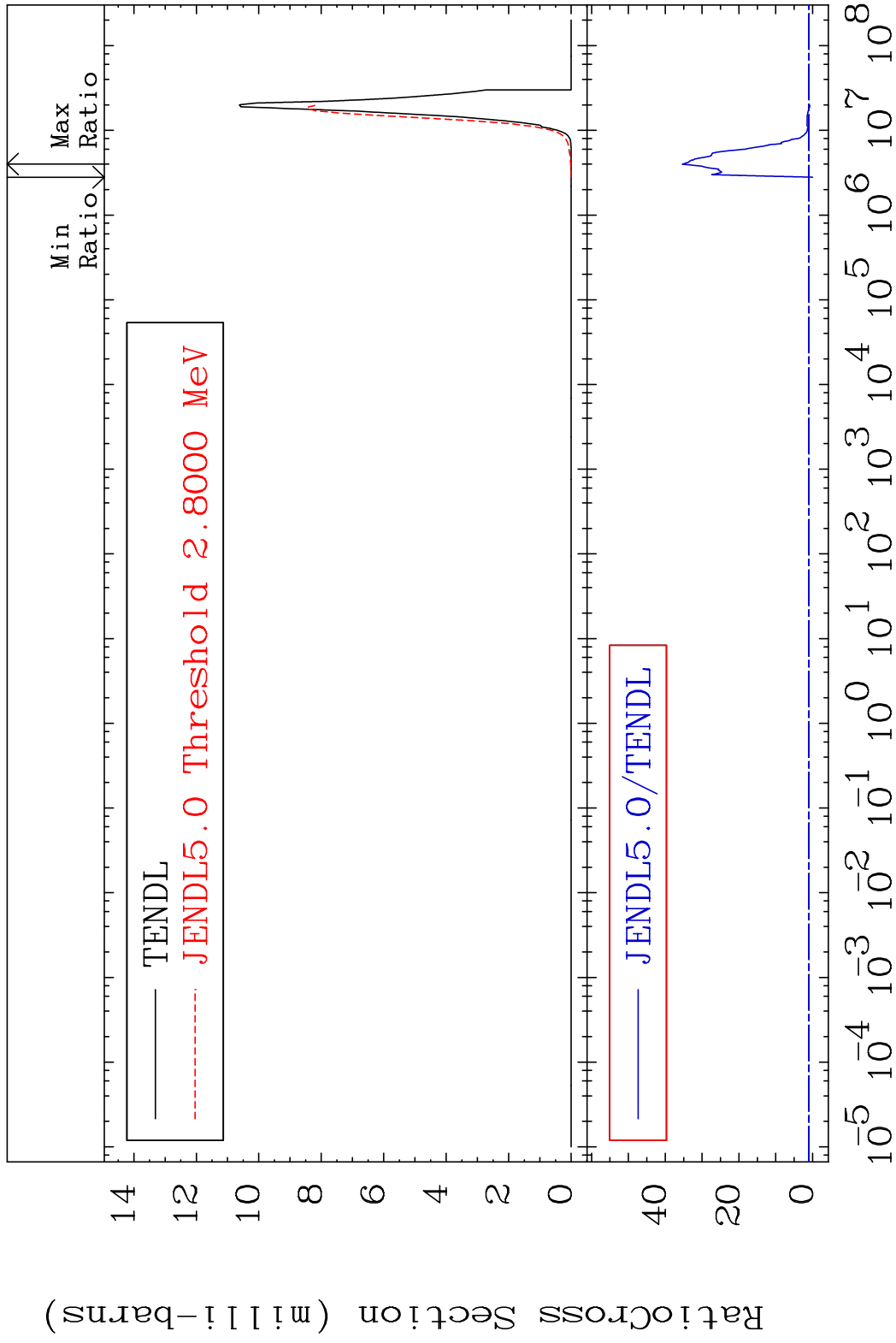
58-Ce-142

MAT 5843

(n, α)

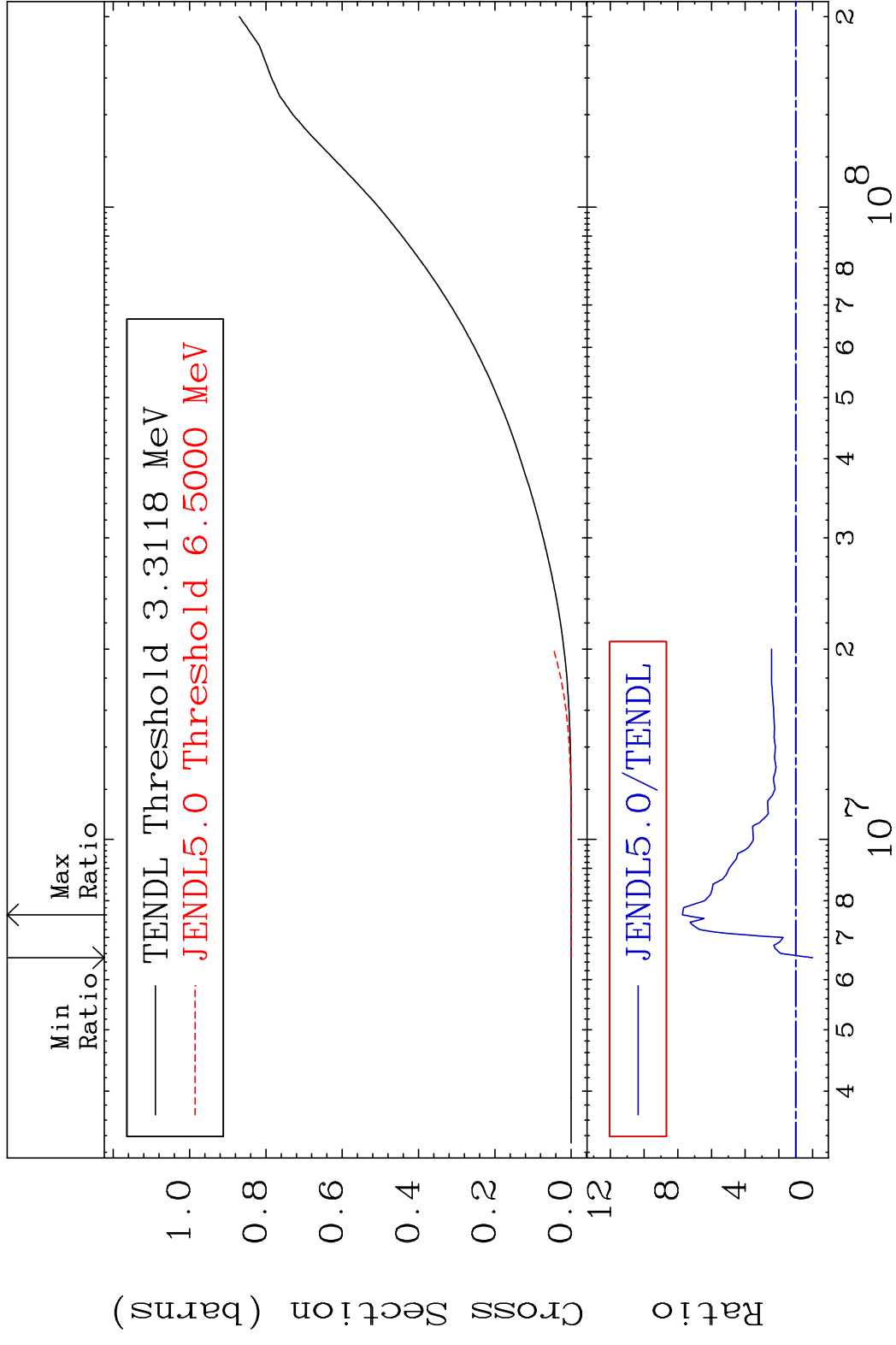
58-Ce-142

Cross Section -100.0 To 3435. %



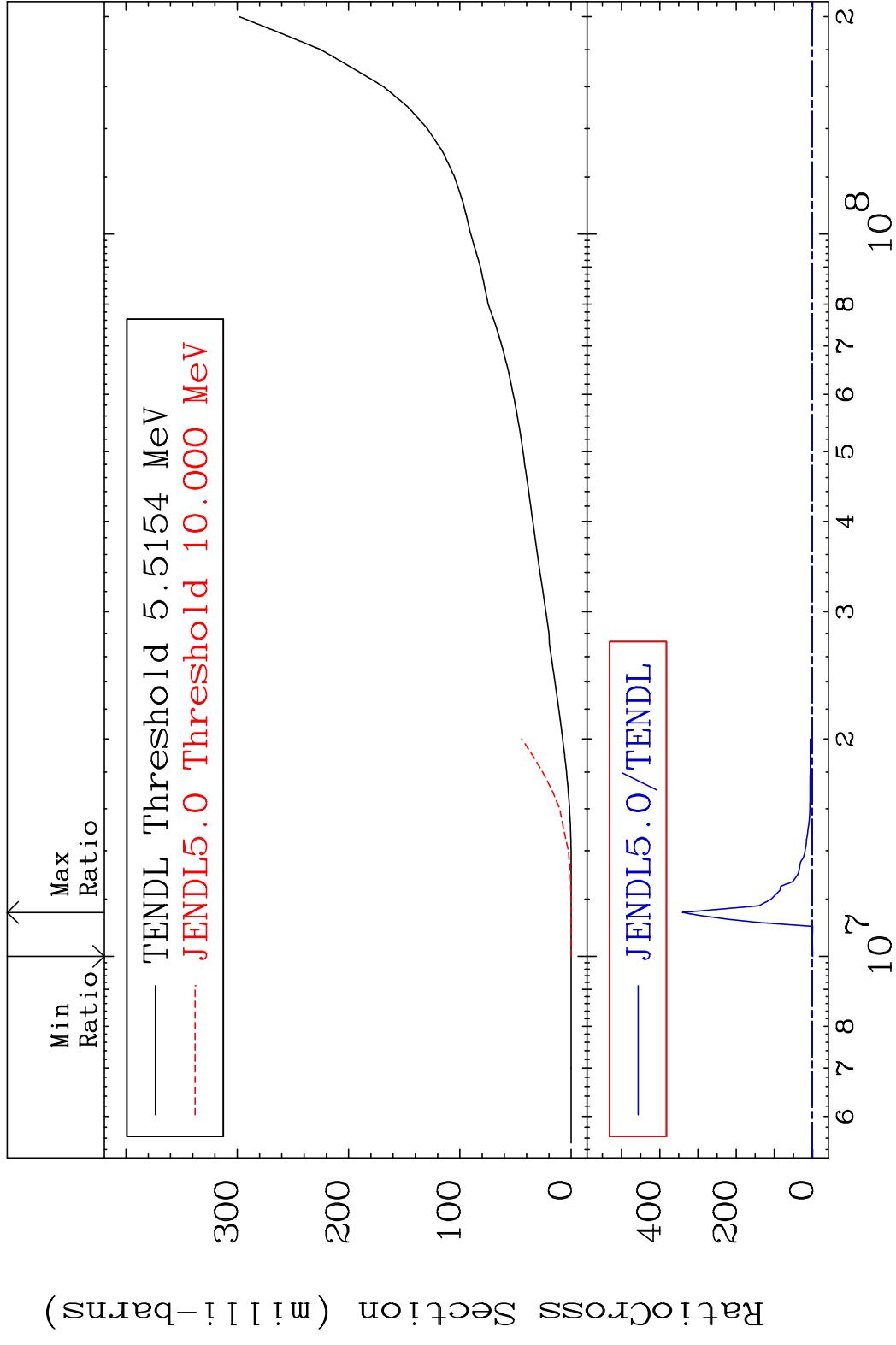
MAT 5843

Hydrogen Production 58-Ce-142
Cross Section -100.0 To 673.0 %



MAT 5843

Deuterium Production 58-Ce-142
Cross Section -100.0 To 9999. %

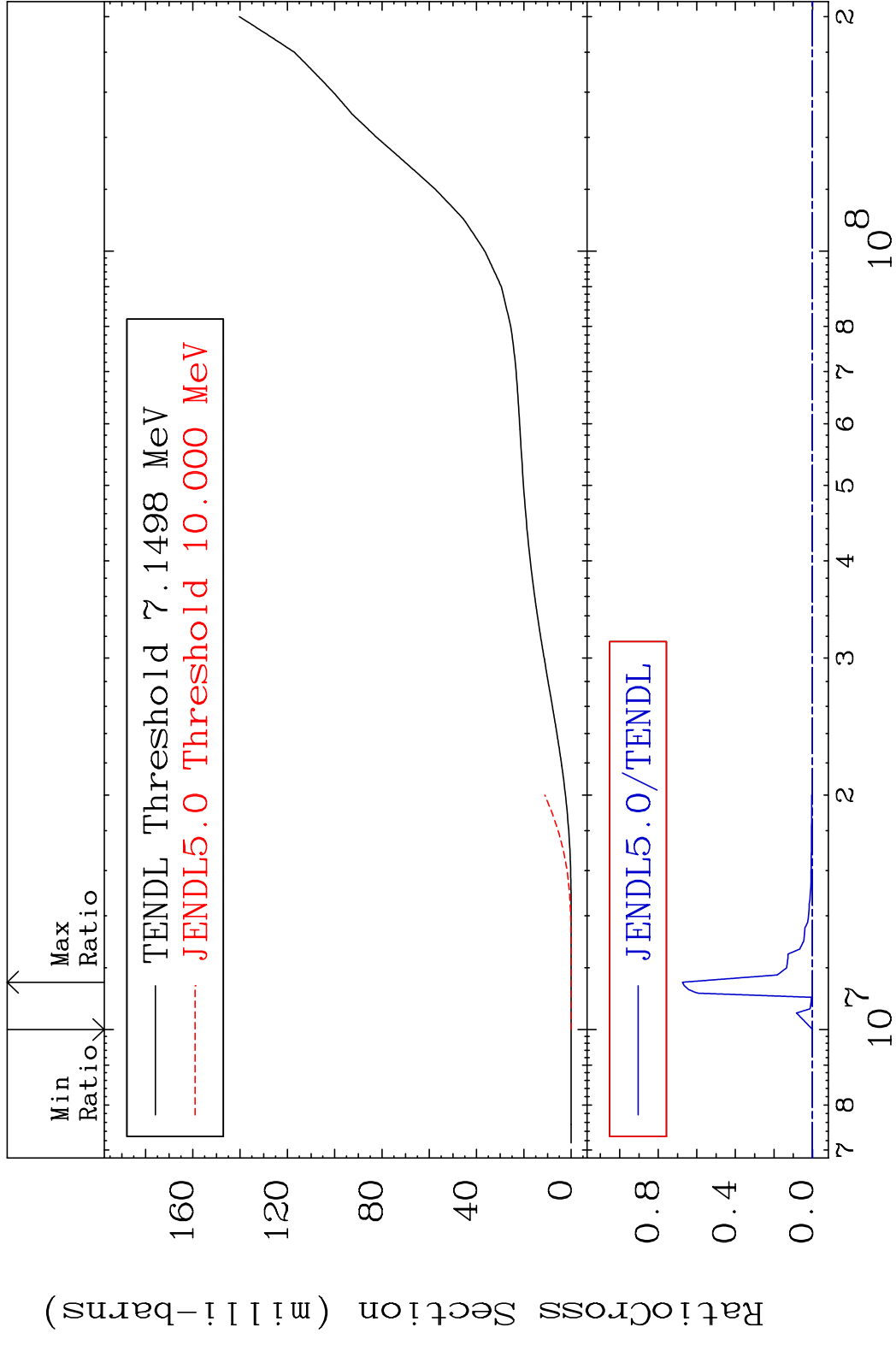


MAT 5843

Tritium Production

58-Ce-142

Cross Section -100.0 To 9999. %

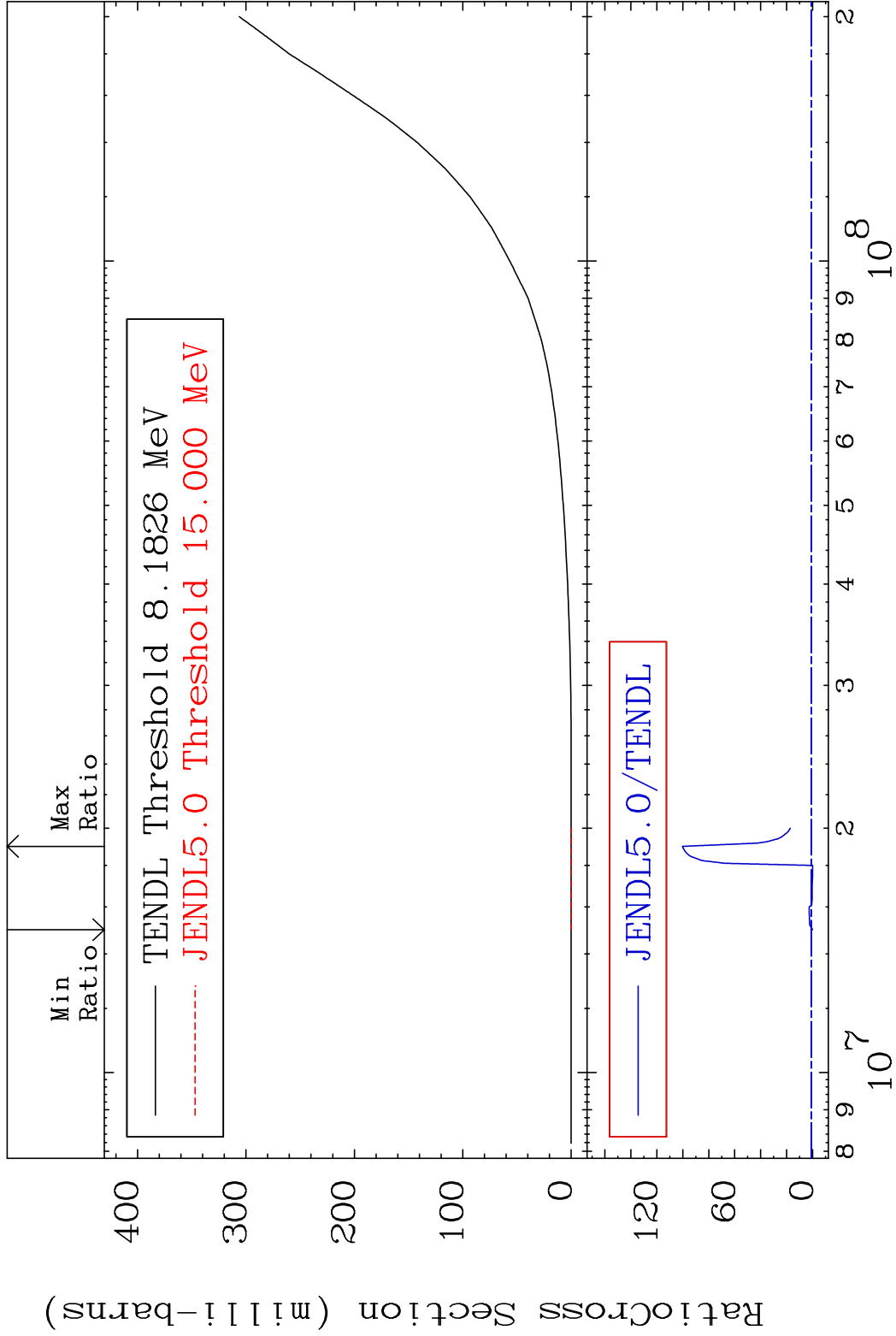


MAT 5843

He-3 Production

58-Ce-142

Cross Section -100.0 To 9935. %



34

Incident Energy (eV)

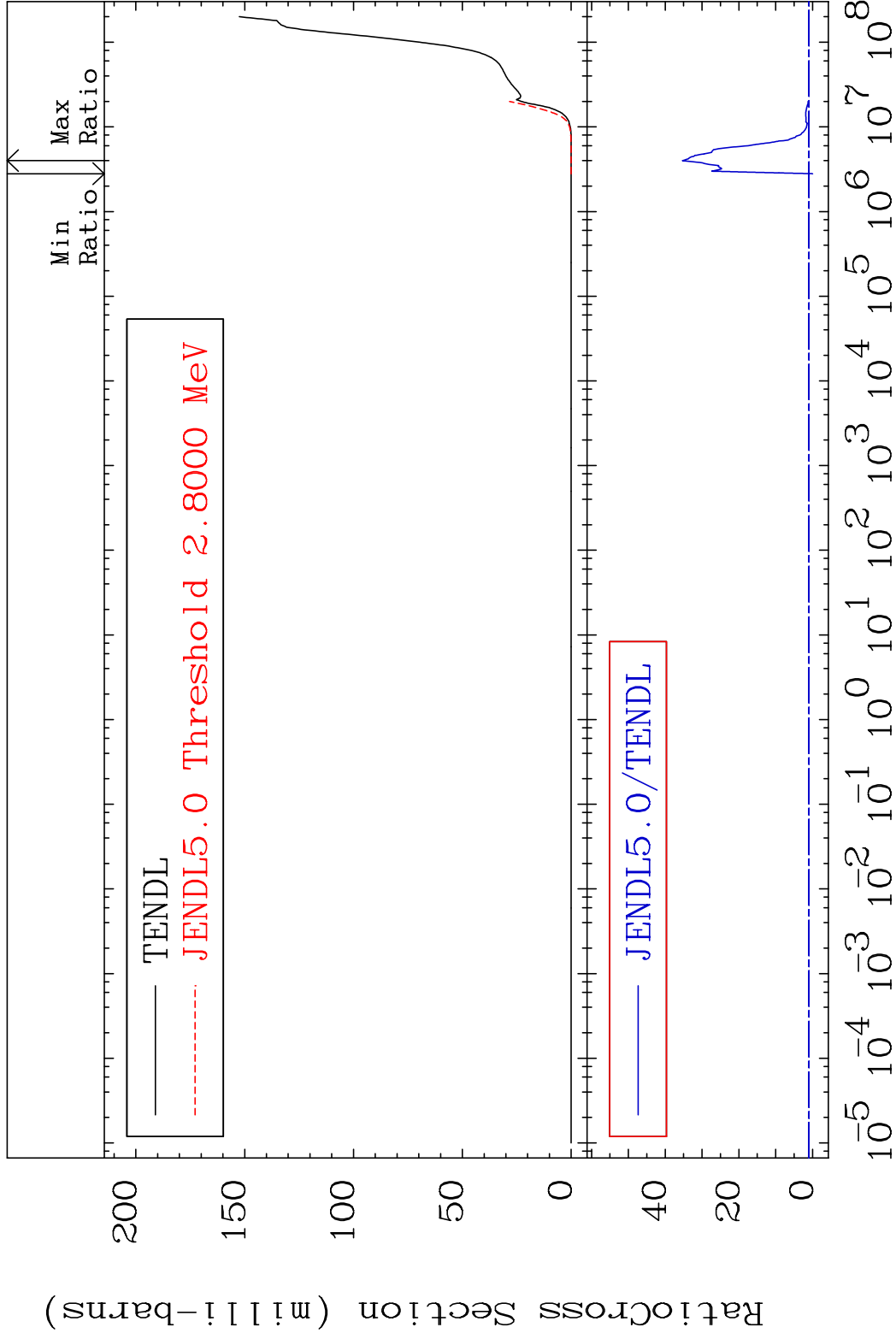
58-Ce-142

MAT 5843

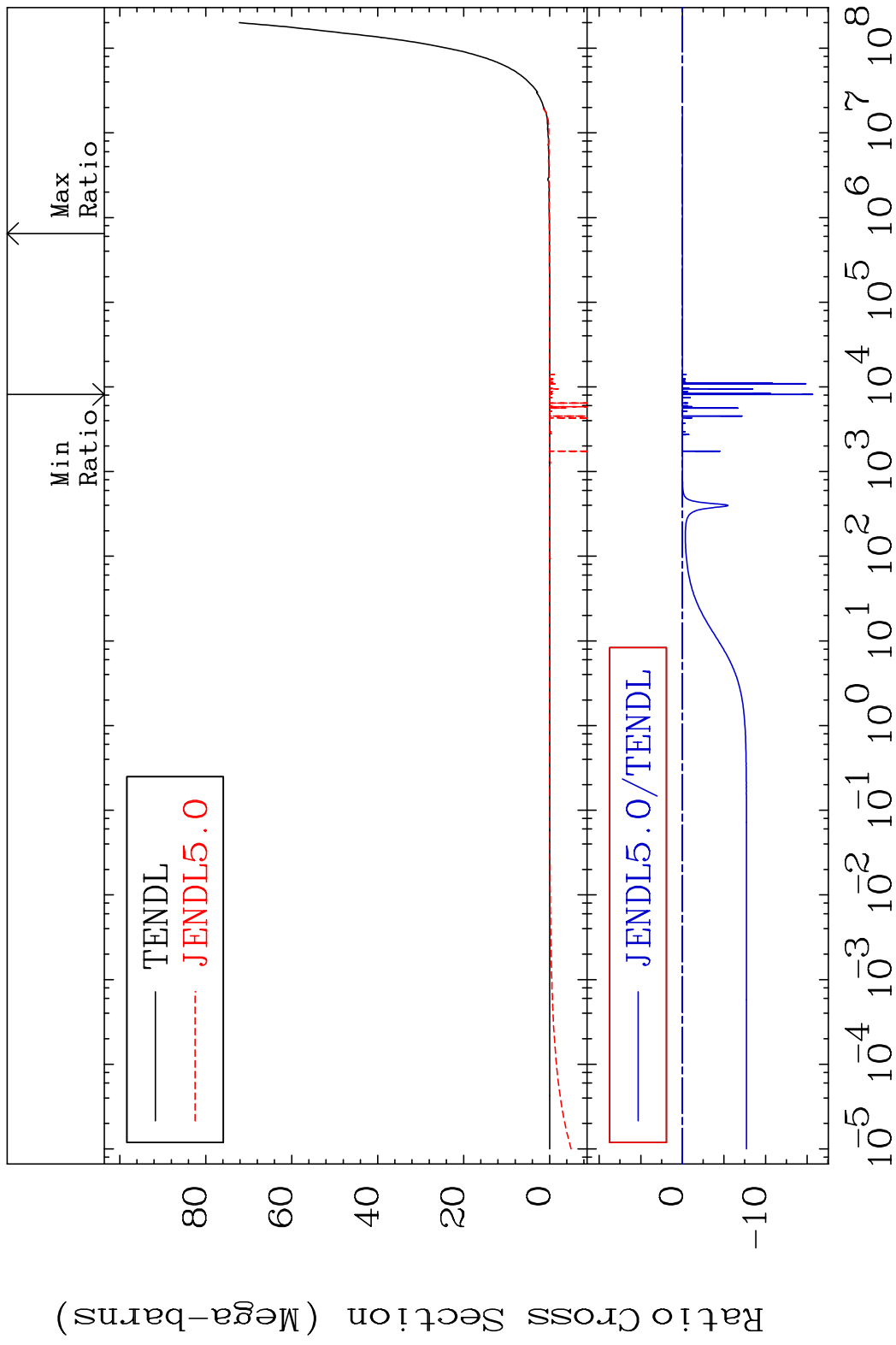
He-4 Production

58-Ce-142

Cross Section -100.0 To 3435. %



MAT 5843 Kerma total (eV-barns) 58-Ce-142
 Cross Section -9999. To 133.0 %



36 Incident Energy (eV) 58-Ce-142

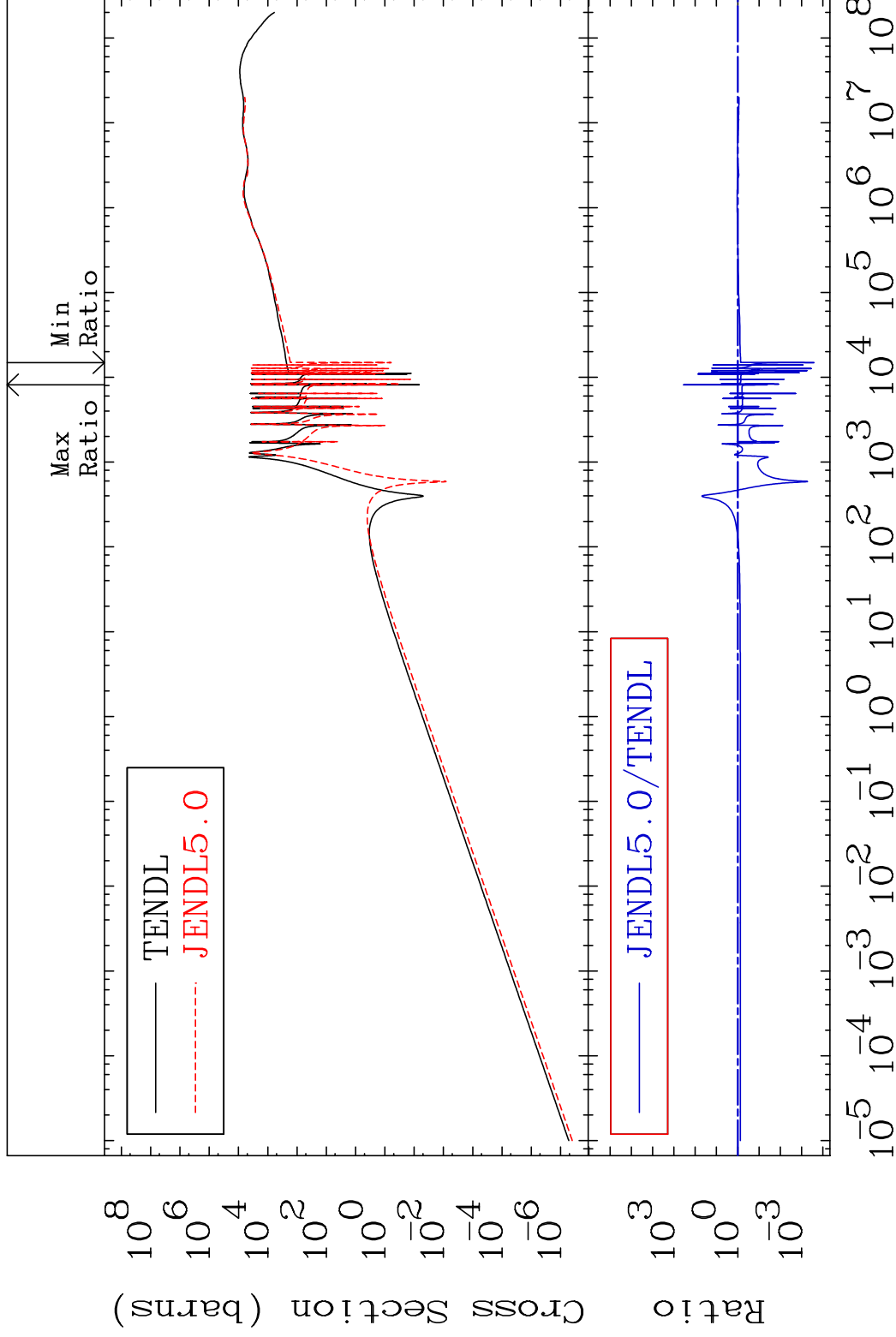
MAT 5843

Kerma elastic

58-Ce-142

Cross Section

-99.97 To 9999. %

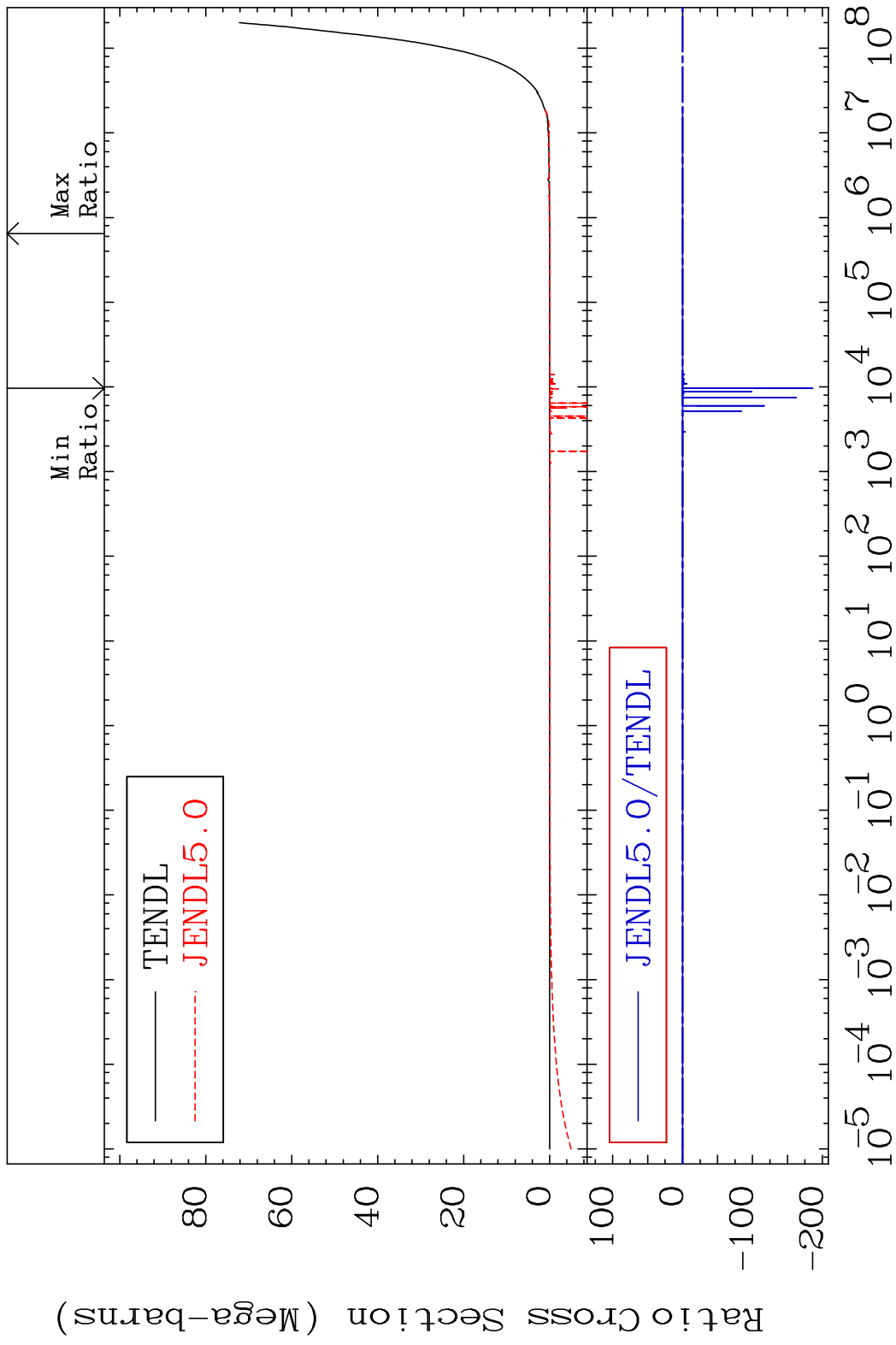


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Incident Energy (eV)

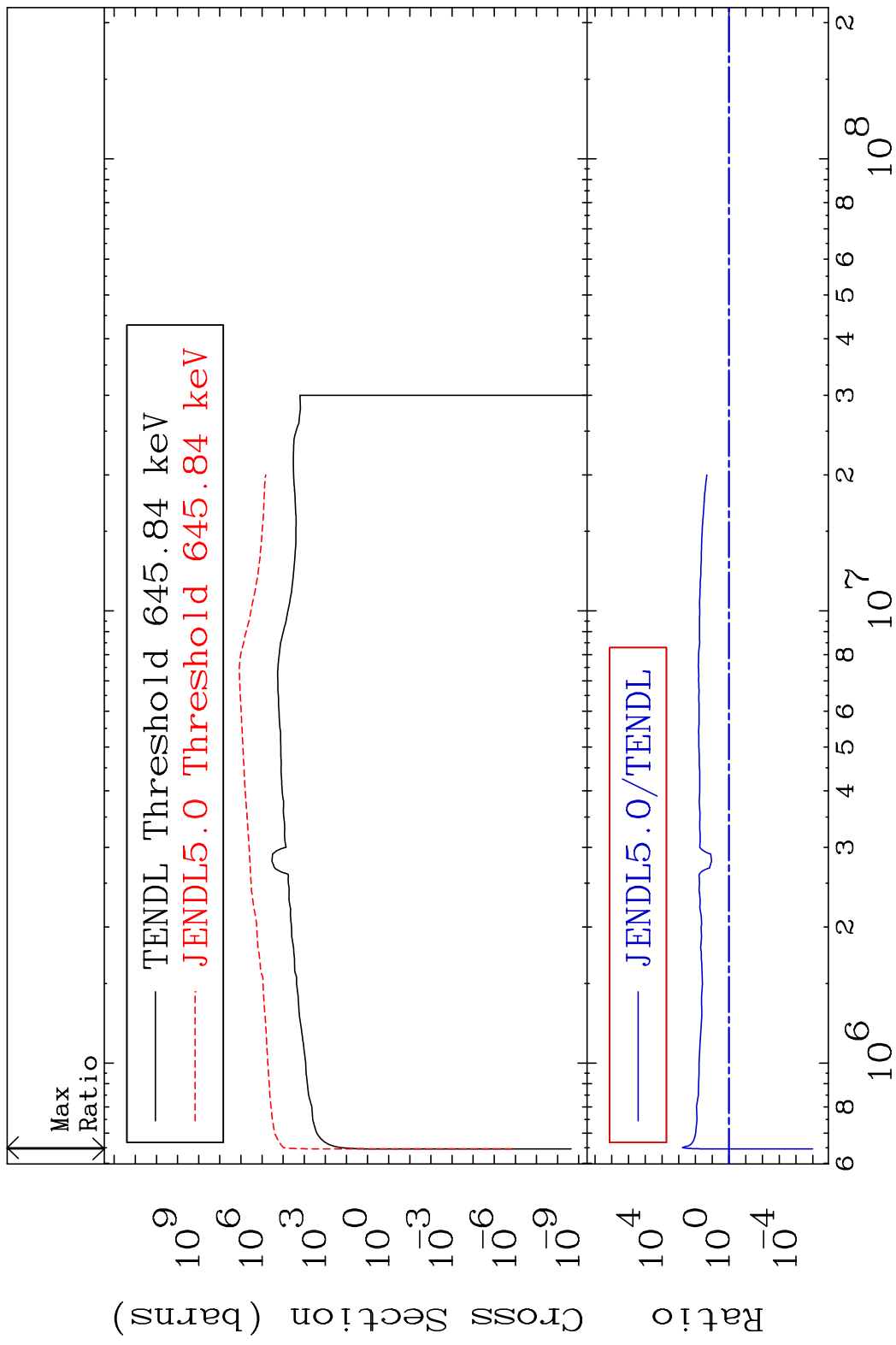
58-Ce-142

MAT 5843 Kerma non-elastic (all but mt2) 58-Ce-142
 Cross Section -9999. To 9999. %

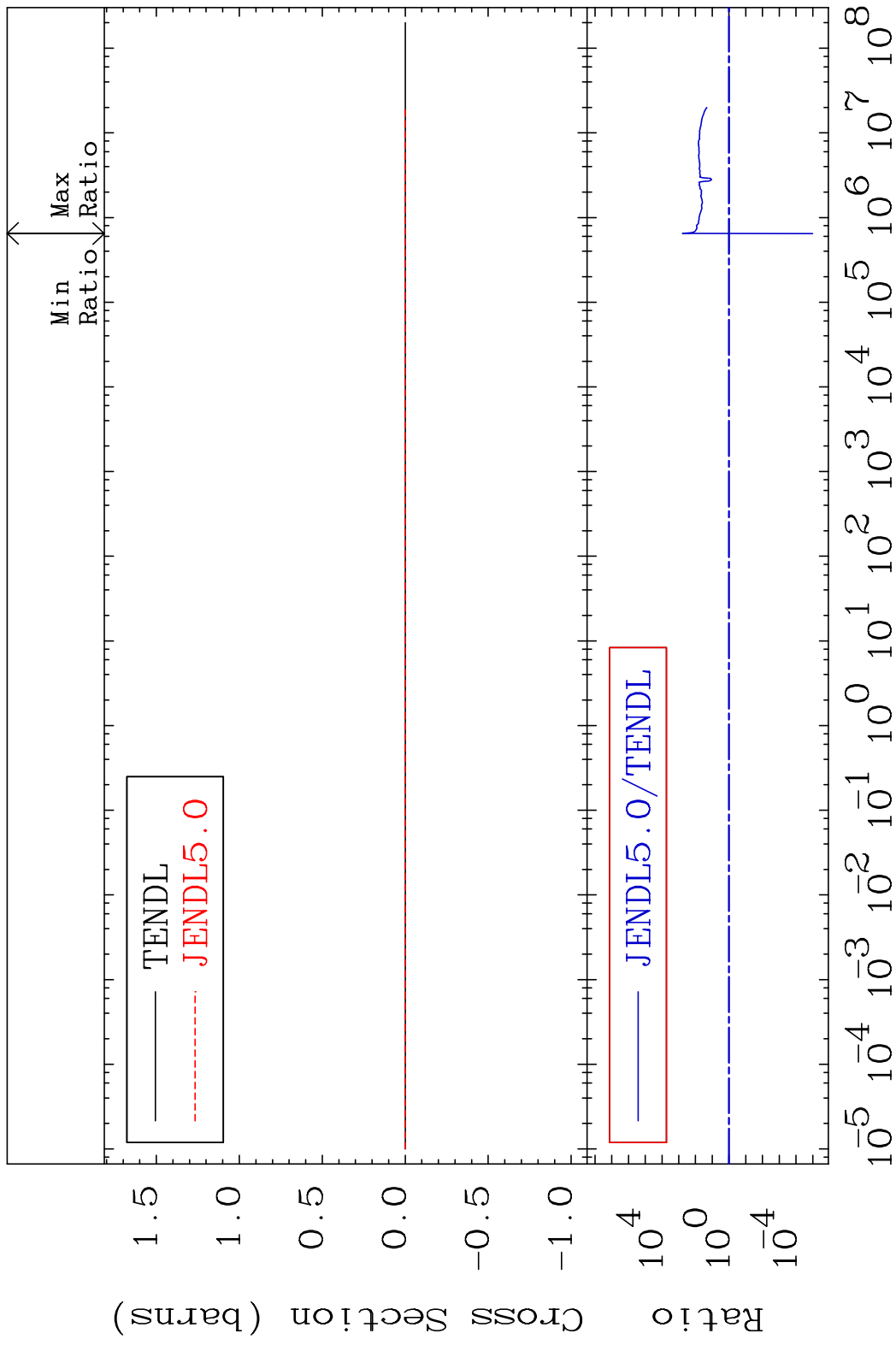


38 Incident Energy (eV) 58-Ce-142

MAT 5843 Kerma inelastic (mt51-91) 58-Ce-142
 Cross Section -100.0 To 9999. %



MAT 5843 Kerma fission (mt18 or mt19-20-21-38) 58-Ce-142
 Cross Section -100.0 To 9999. %



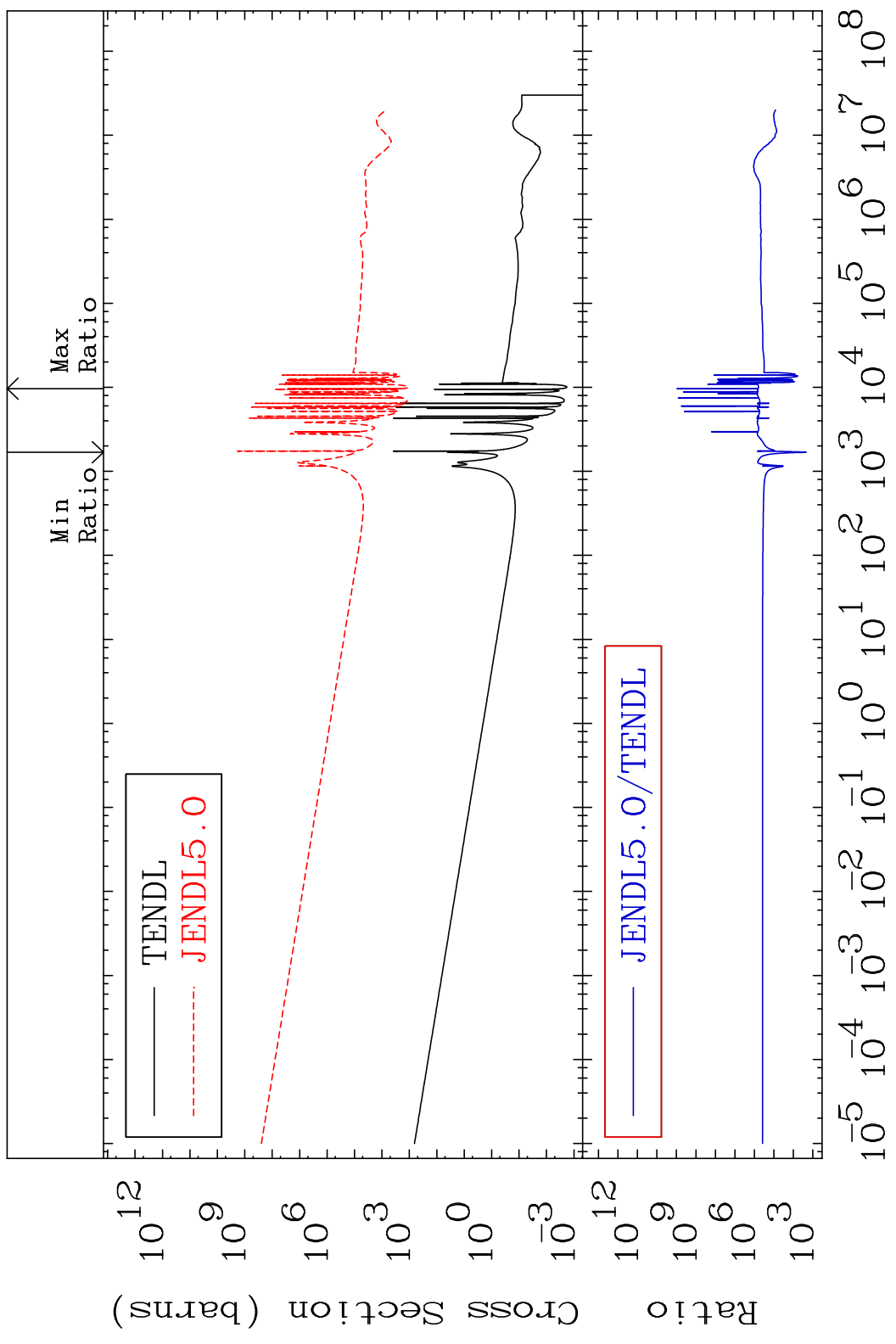
40

Incident Energy (eV)

58-Ce-142

MAT 5843

Kerma capture (mt102) 58-Ce-142
Cross Section 9999. To 9999. %

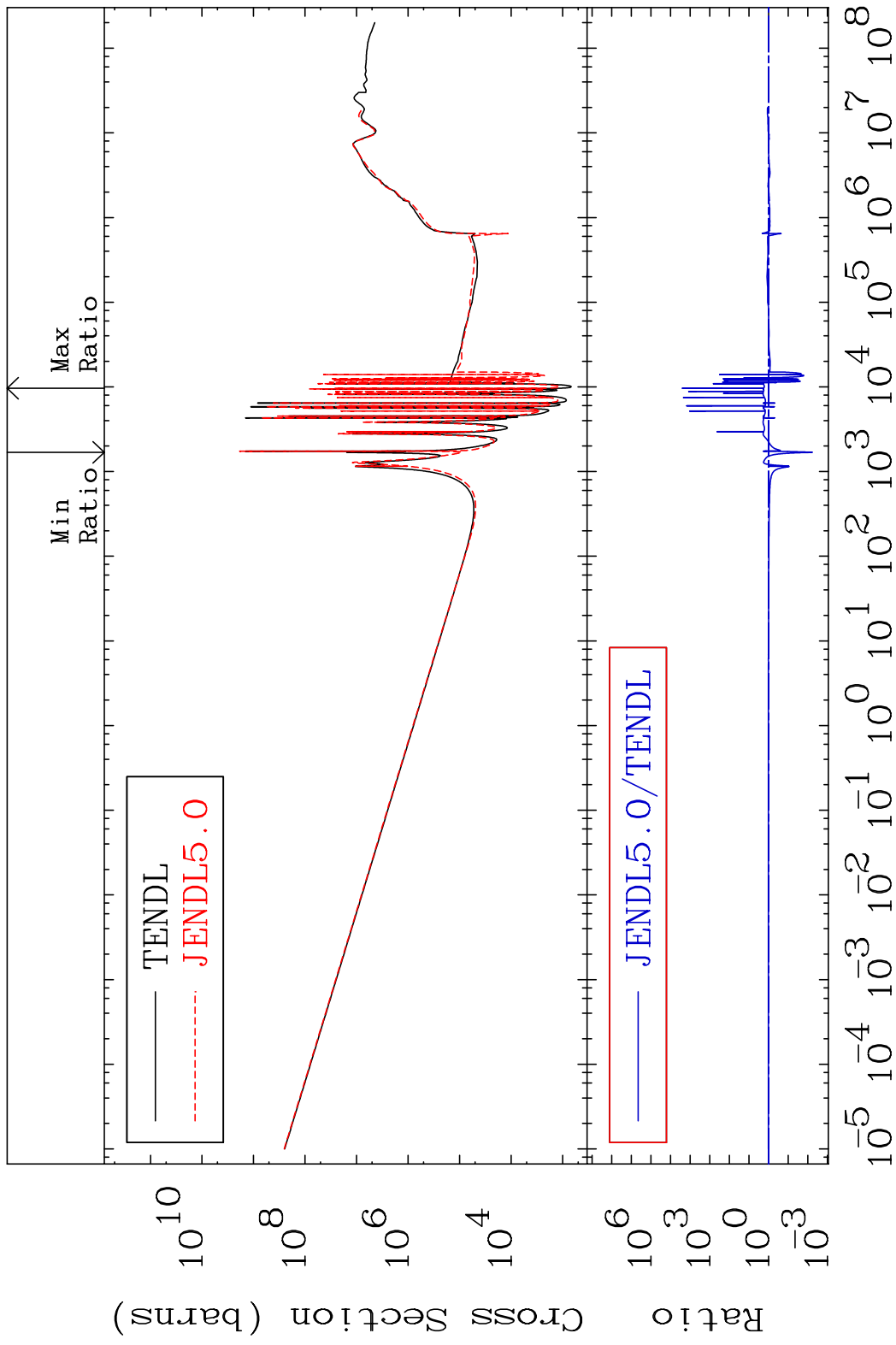


41

Incident Energy (eV)

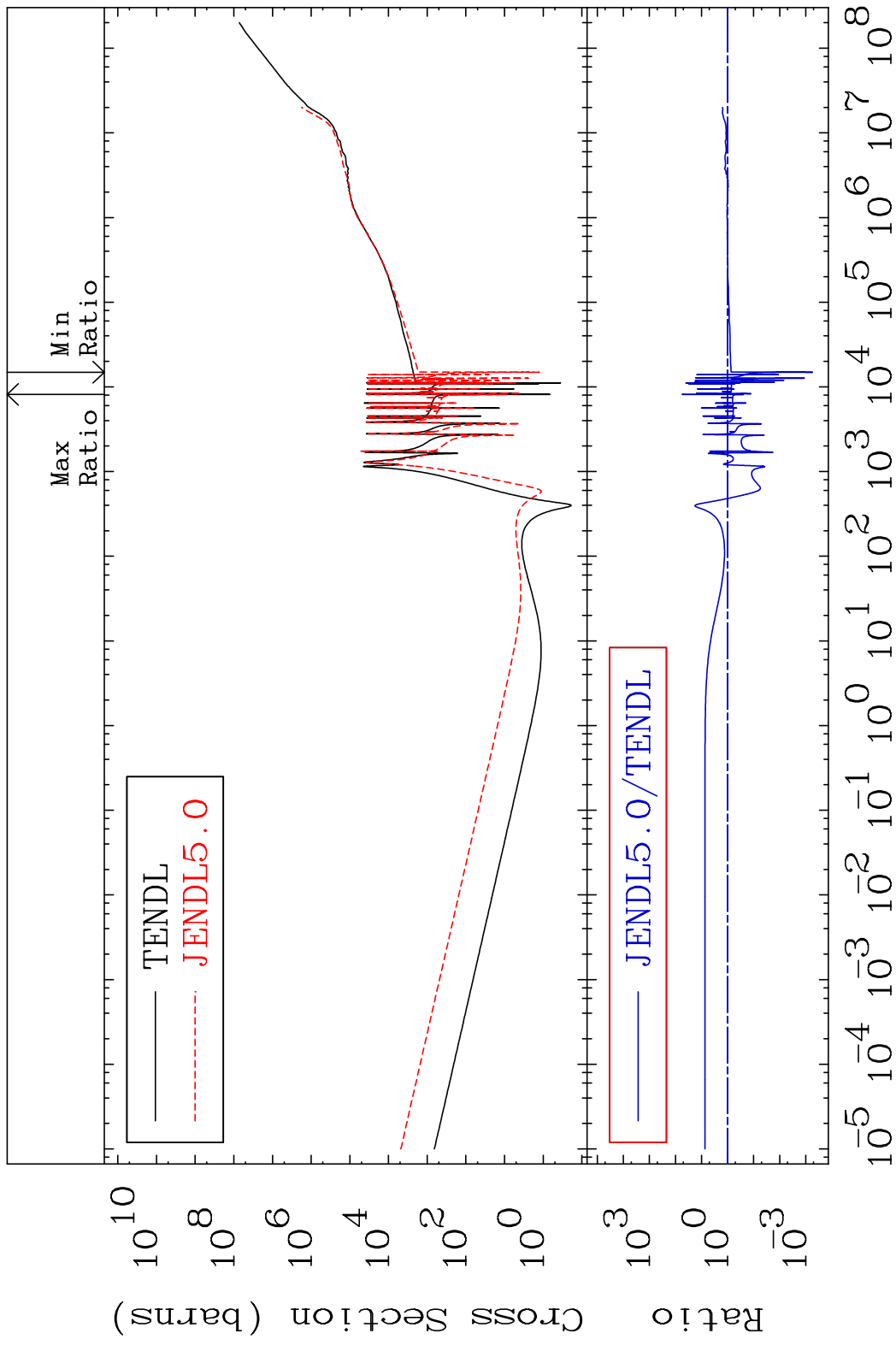
58-Ce-142

MAT 5843 Total photon (eV-barns) 58-Ce-142
 Cross Section -99.42 To 9999. %

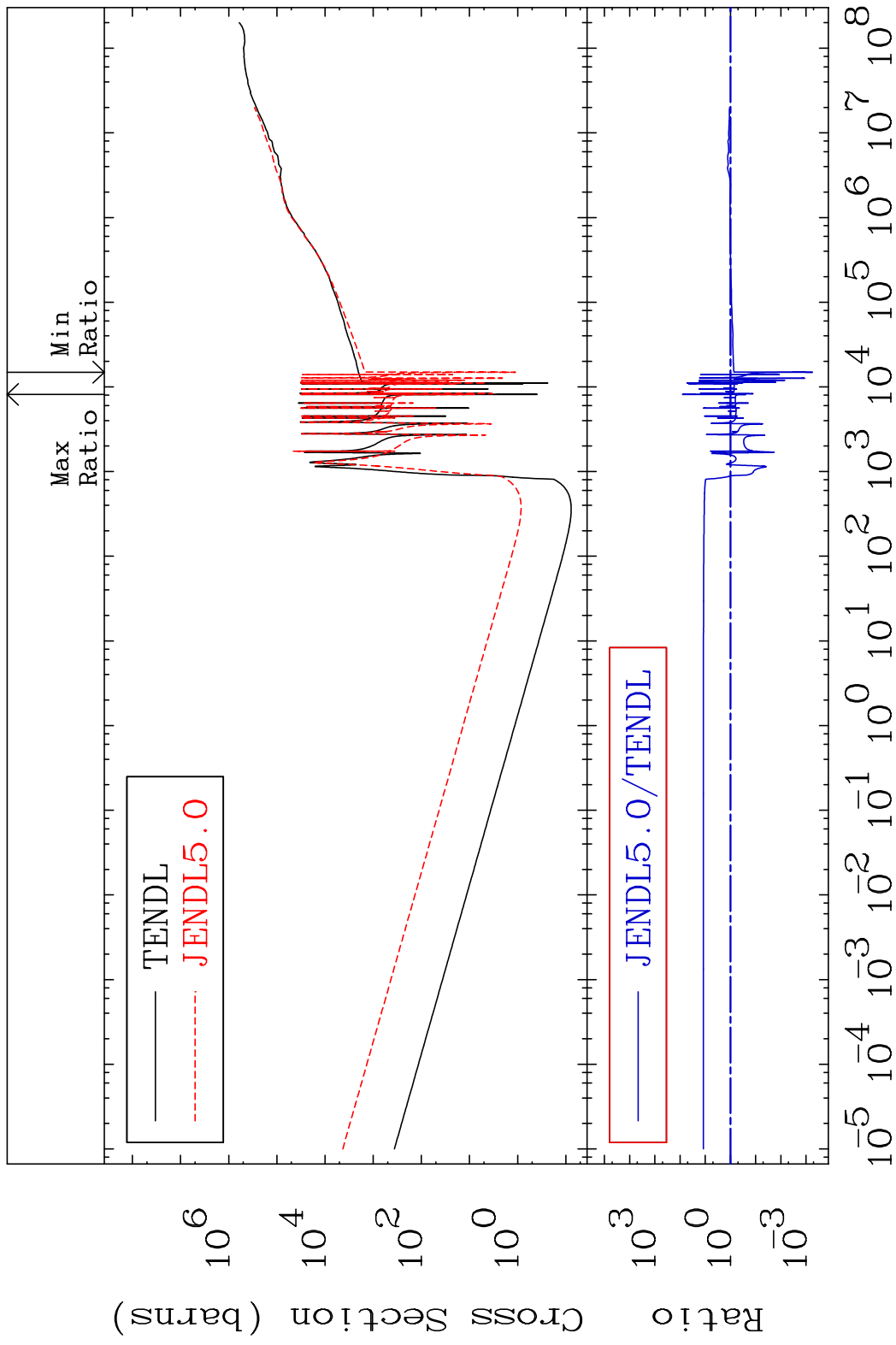


42 Incident Energy (eV) 58-Ce-142

MAT 5843 Total kinematic kerma (high limit) 58-Ce-142
 Cross Section -99.95 To 5337. %



MAT 5843 Dpa total (eV-barns) 58-Ce-142
 Cross Section -99.95 To 8017. %

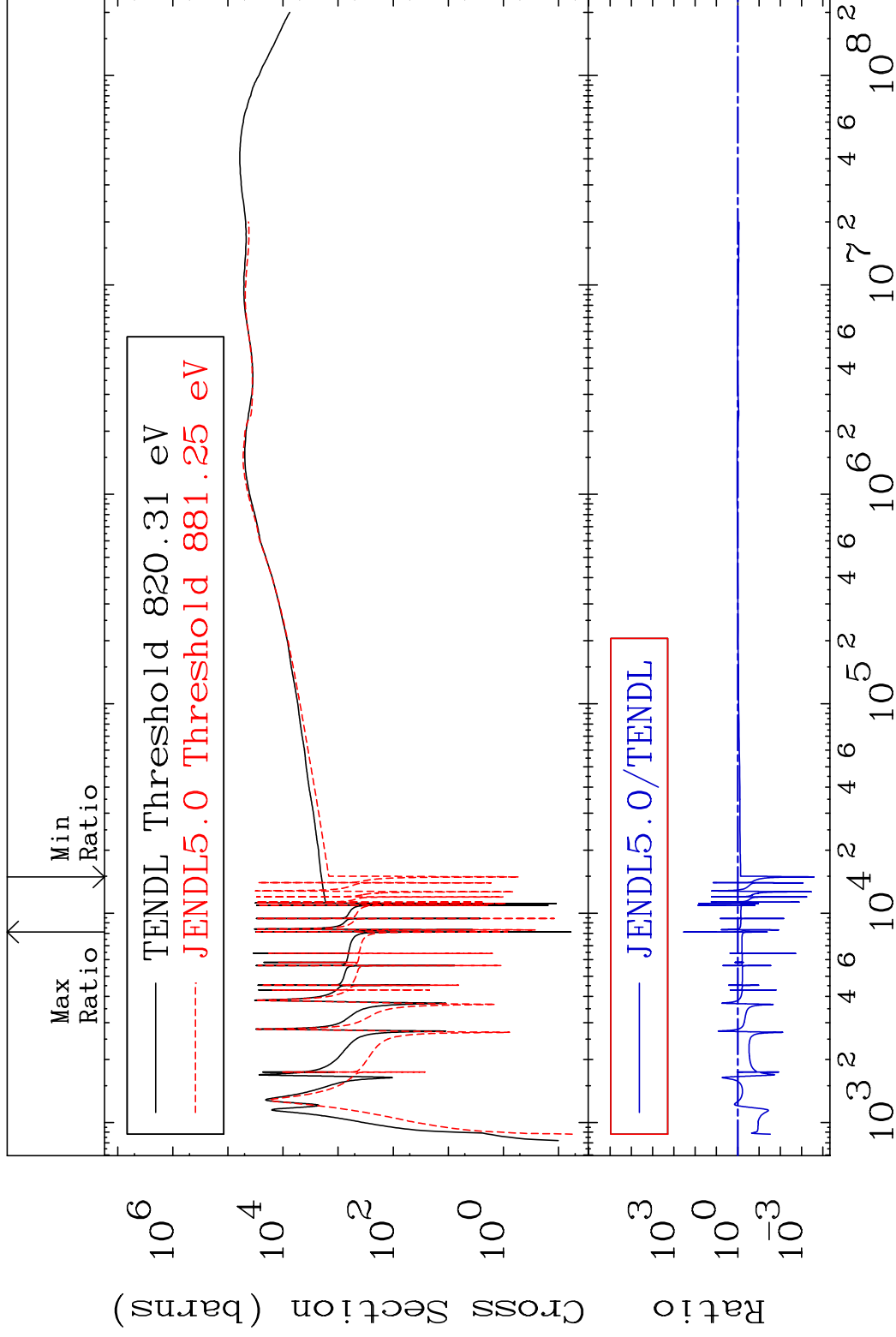


MAT 5843

Dpa elastic (mt2)

58-Ce-142

Cross Section -99.97 To 9999. %

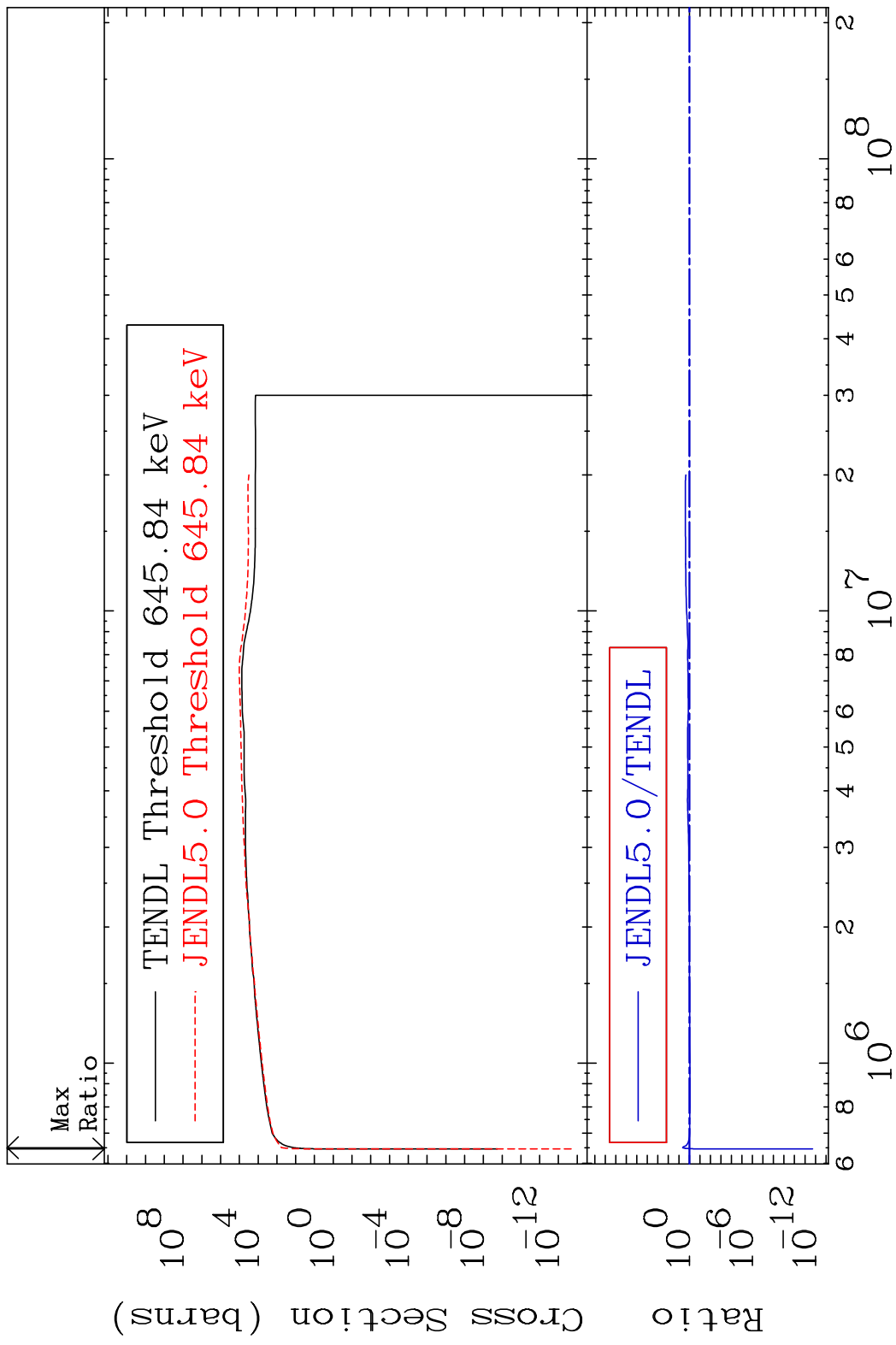


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Incident Energy (eV)

58-Ce-142

MAT 5843 Dpa inelastic (mt51-91) 58-Ce-142
 Cross Section -100.0 To 364.7 %



MAT 5843 Dpa disappearance (mt102 -120) 58-Ce-142
 Cross Section -92.57 To 9999. %

