

Program Complot
(Version 2021-1)

by

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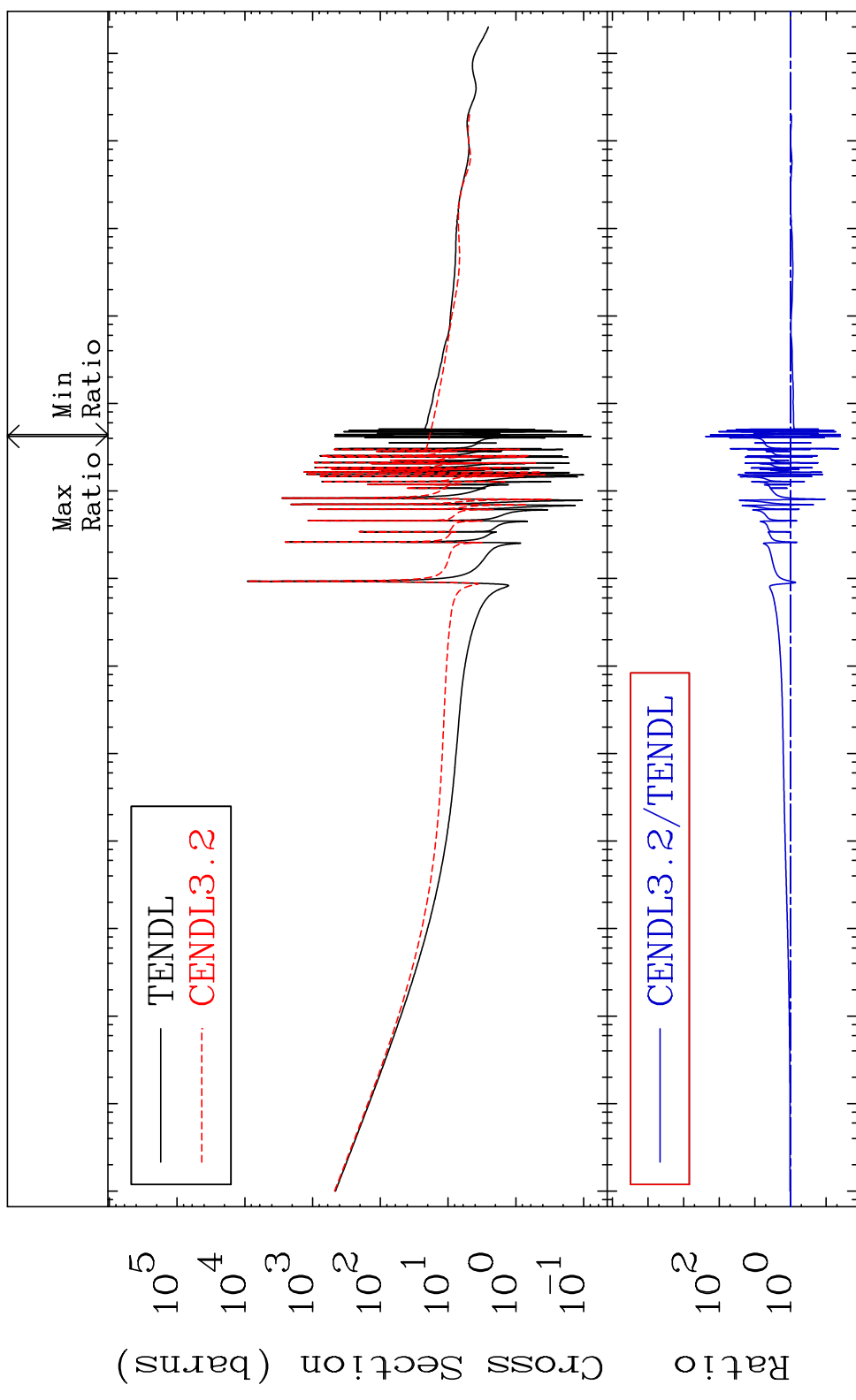
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 6255

Total Cross Section -96.02 To 9999. % 62-Sm-154



10⁵ 10⁴ 10³ 10² 10¹ 10⁰ 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

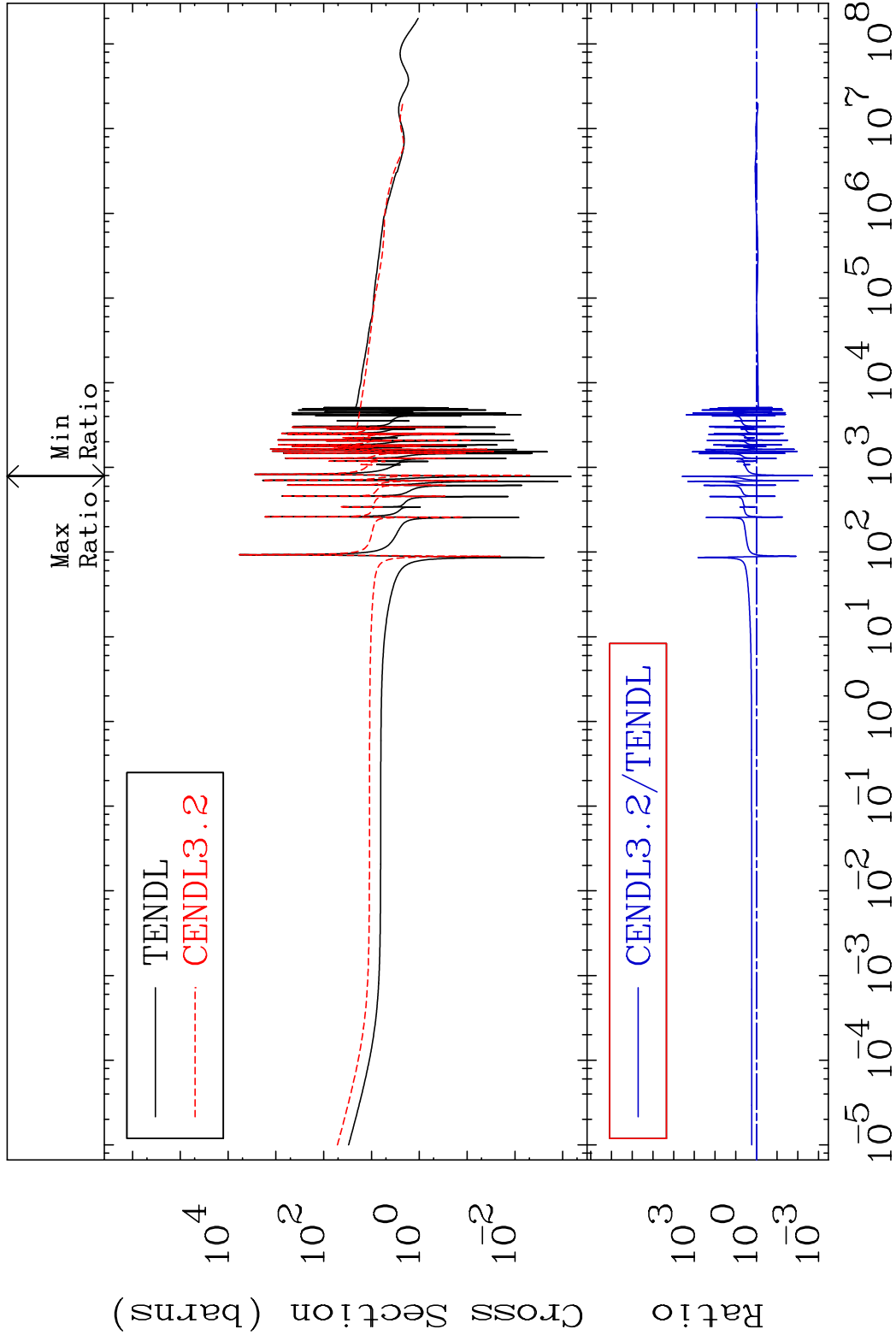
Ratio Cross Section (barns) Incident Energy (eV) 62-Sm-154

MAT 6255

Elastic

62-Sm-154

Cross Section -99.81 To 9999. %

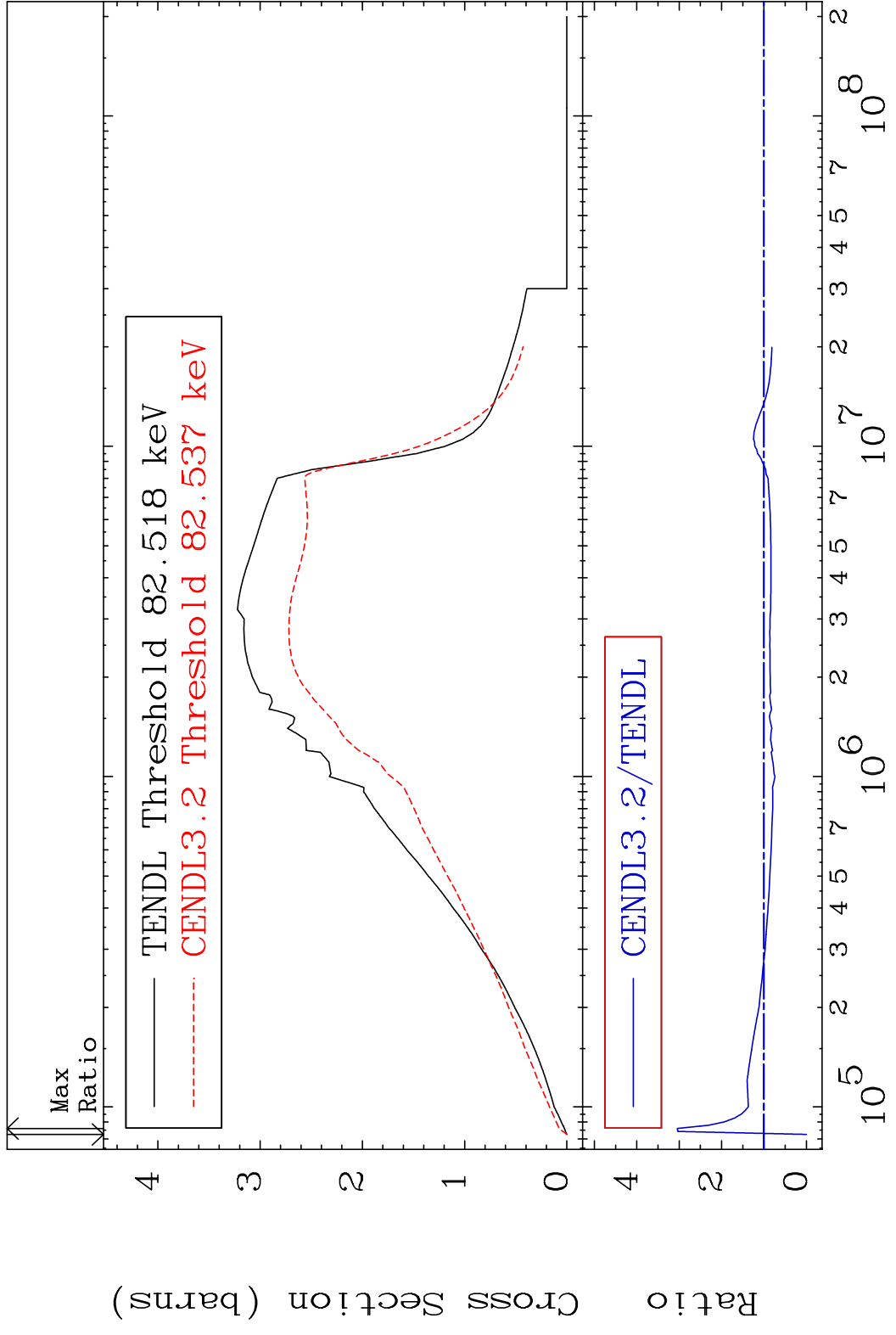


2

Incident Energy (eV)

62-Sm-154

MAT 6255 Inelastic 62-Sm-154
 Cross Section -100.0 To 204.7 %



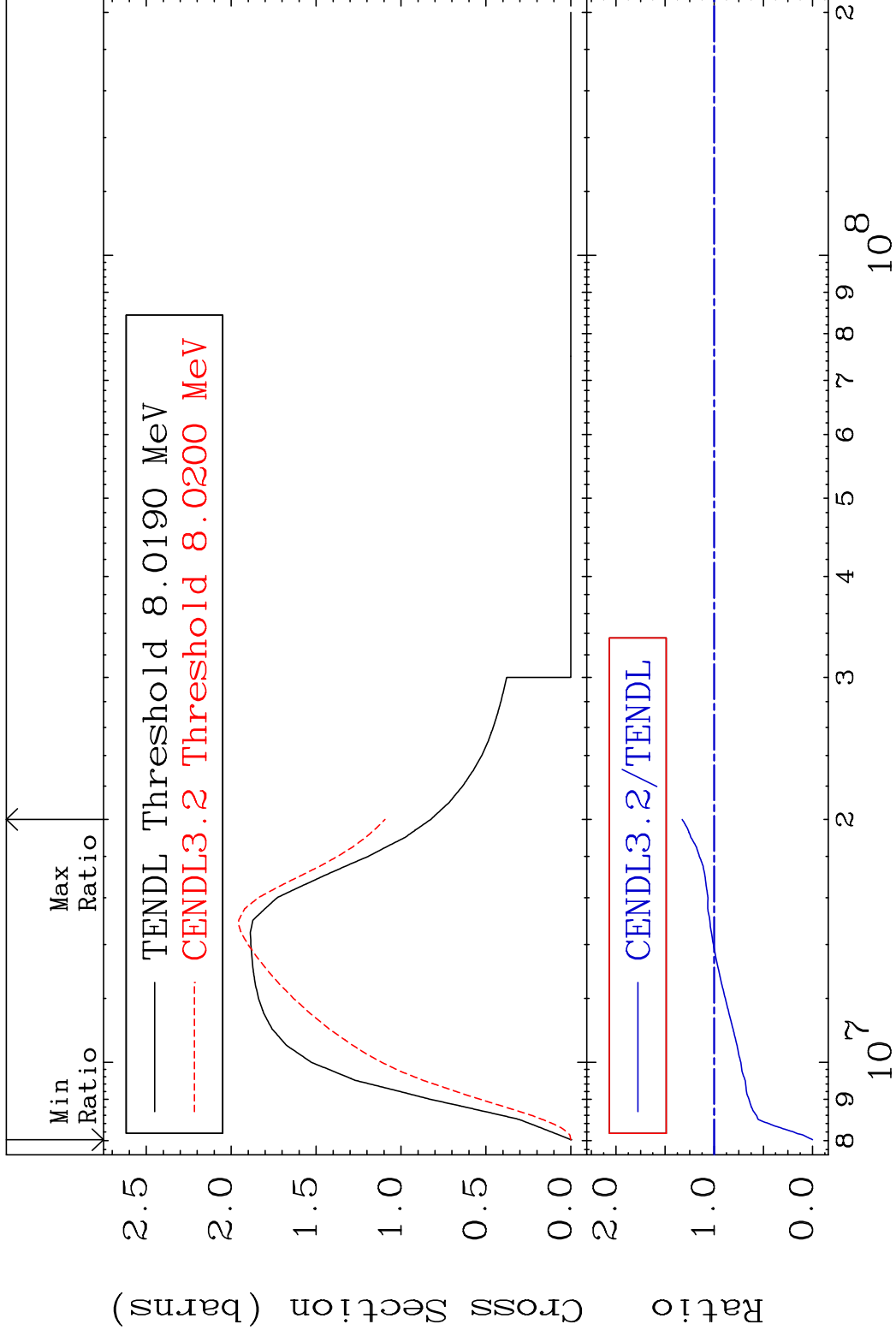
3 2 3 4 5 7 6 10 2 3 4 5 7 8 10 2 62-Sm-154

MAT 6255

(n,2n)

62-Sm-154

Cross Section -100.0 To 32.64 %



4

Incident Energy (eV)

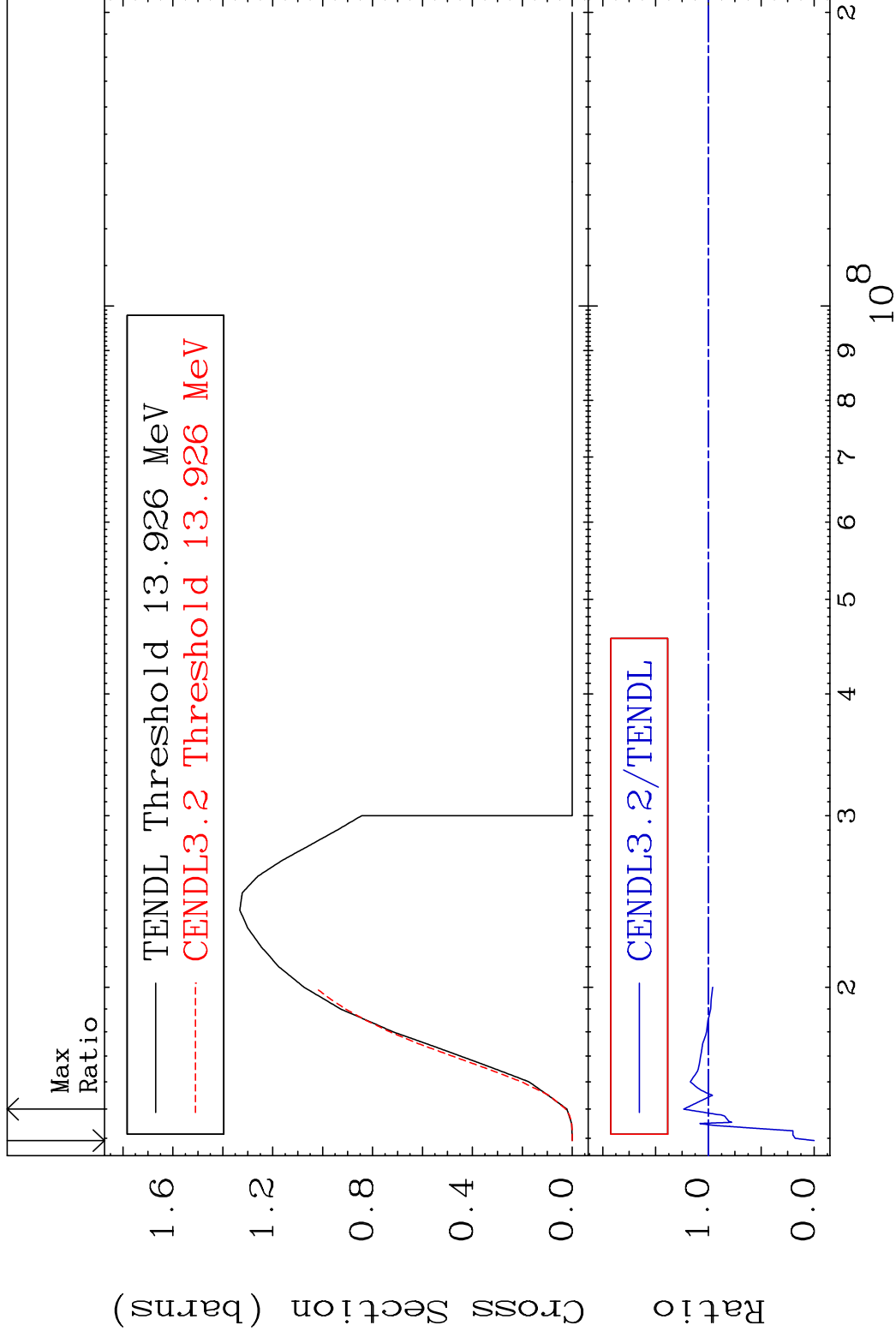
62-Sm-154

MAT 6255

(n,3n)

62-Sm-154

Cross Section -100.0 To 23.43 %

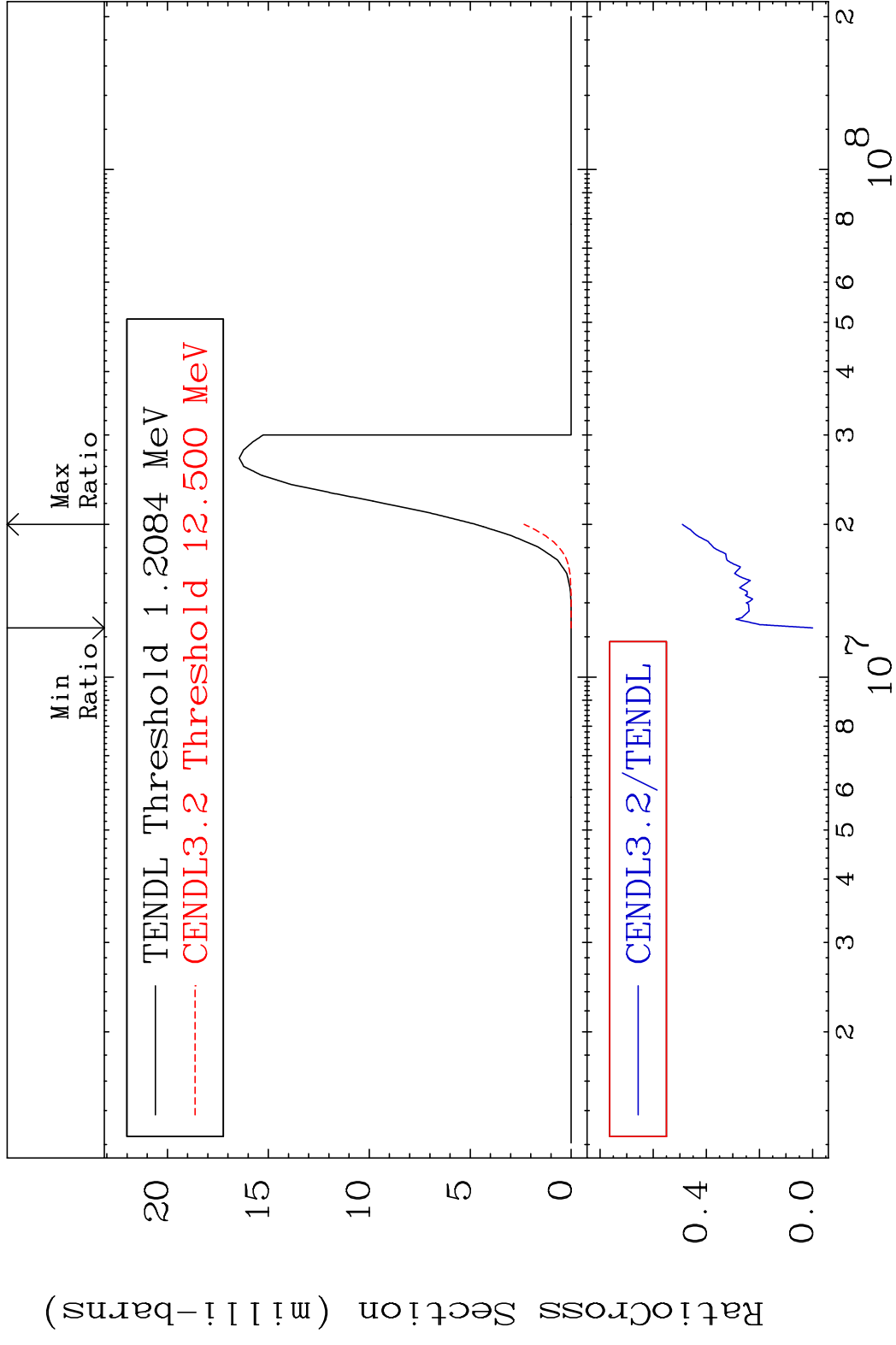


5

Incident Energy (eV)

62-Sm-154

MAT 6255 (n, n') α 62-Sm-154
 Cross Section -100.0 To -50.97%

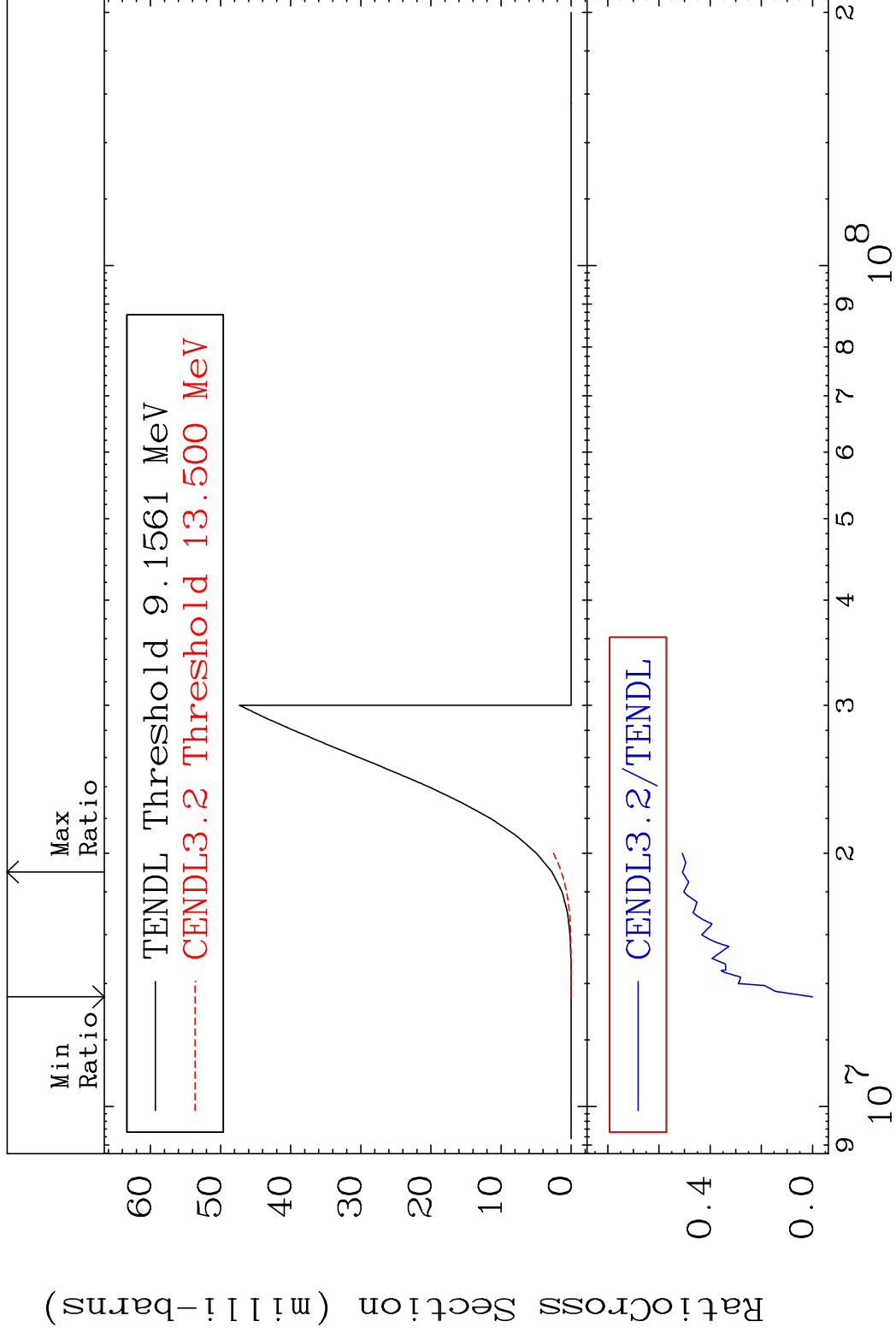


MAT 6255

(n, n') p

62-Sm-154

Cross Section -100.0 To -49.14%

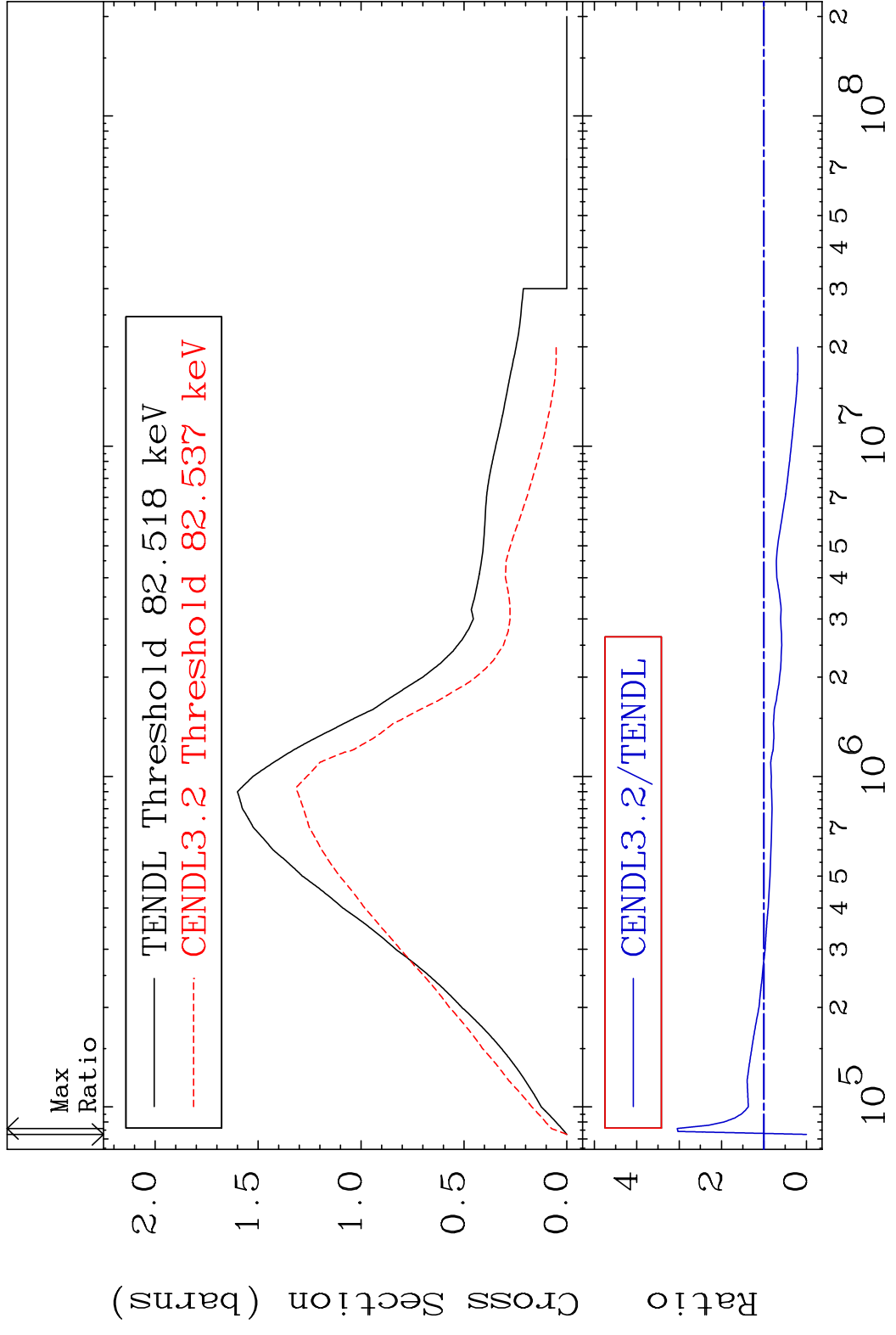


7

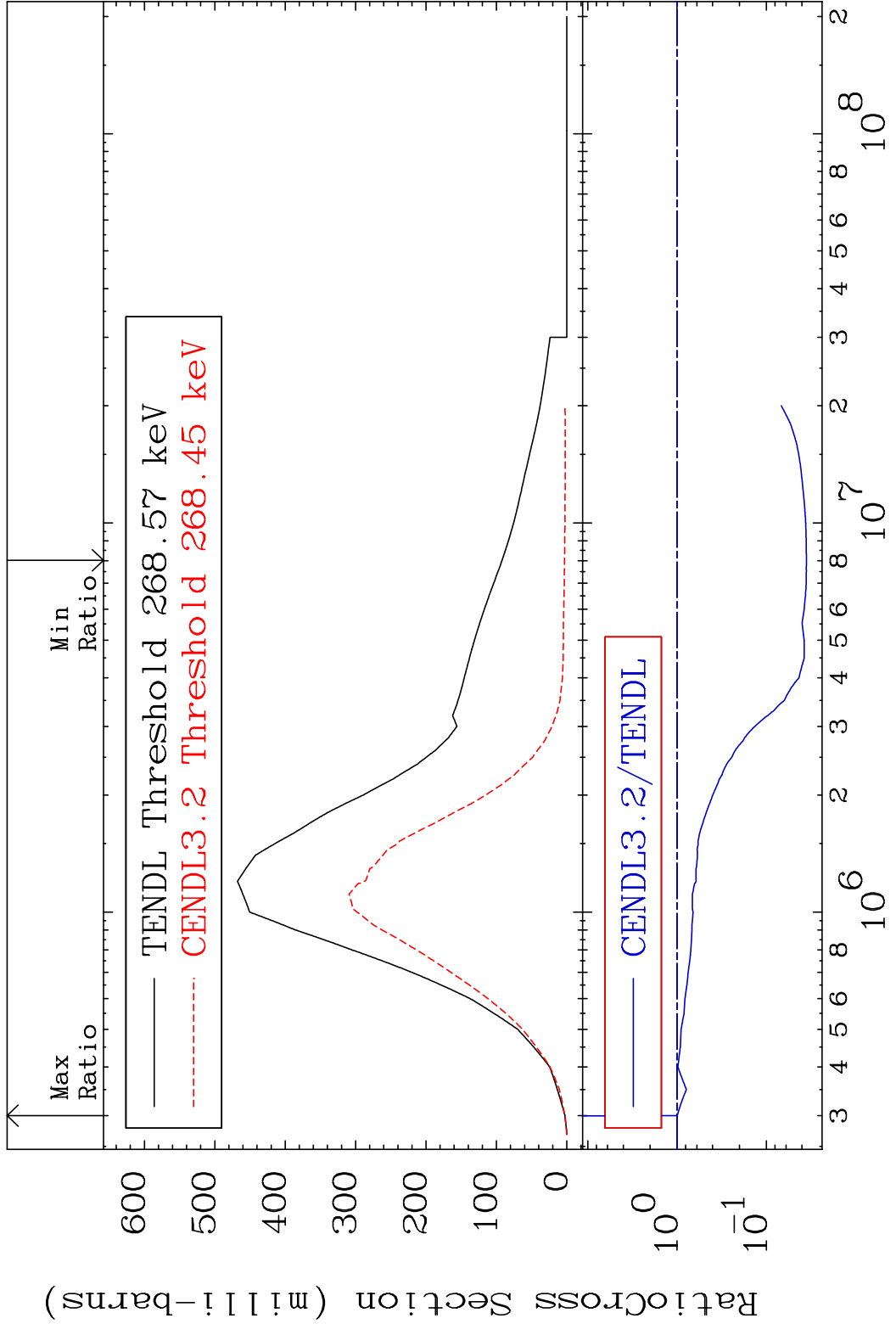
Incident Energy (eV)

62-Sm-154

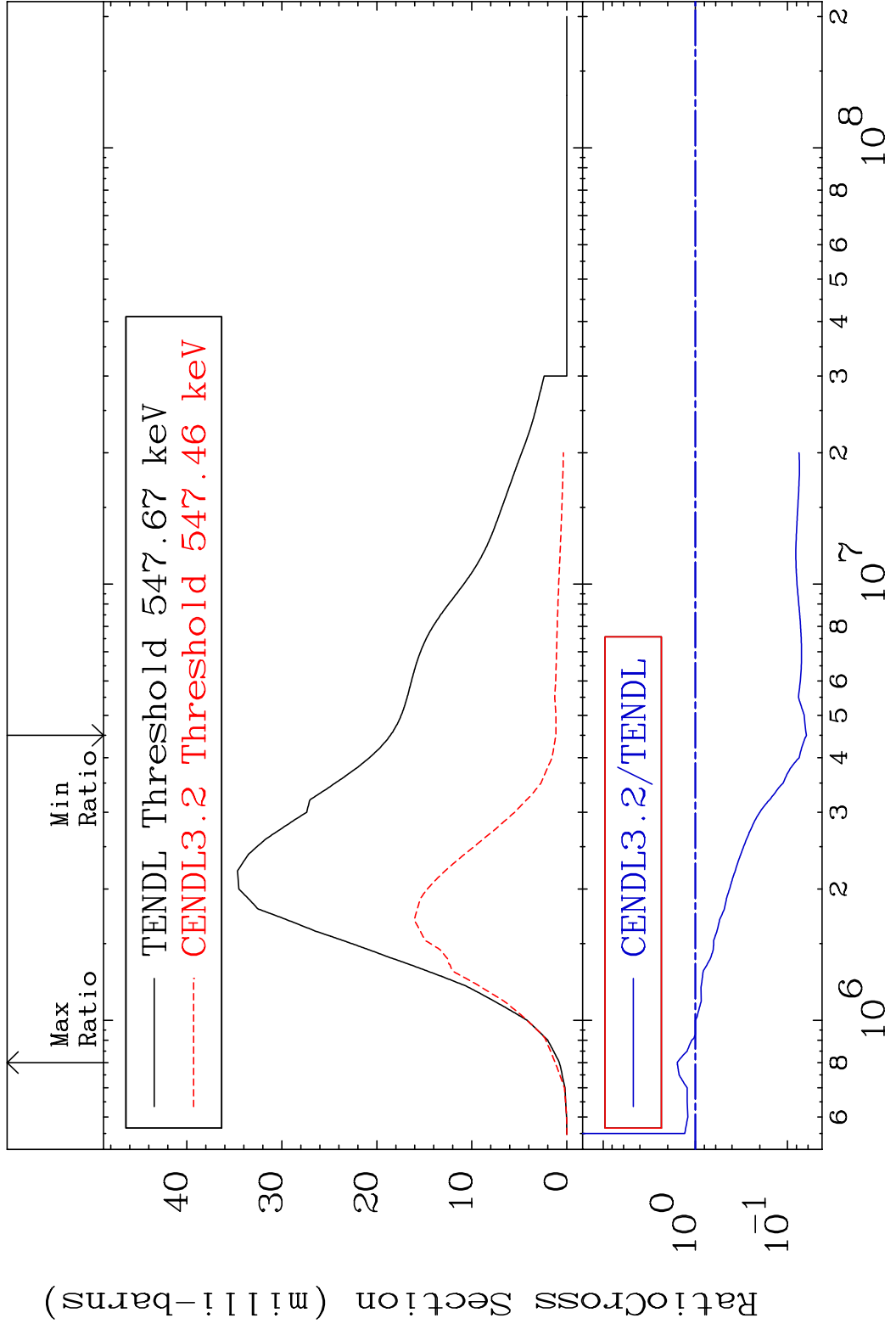
MAT 6255 MT= 51 (n, n') Level 62-Sm-154
 Cross Section -100.0 To 204.7 %



MAT 6255 MT= 52 (n, n') Level 62-Sm-154
 Cross Section -96.44 To -0.379%

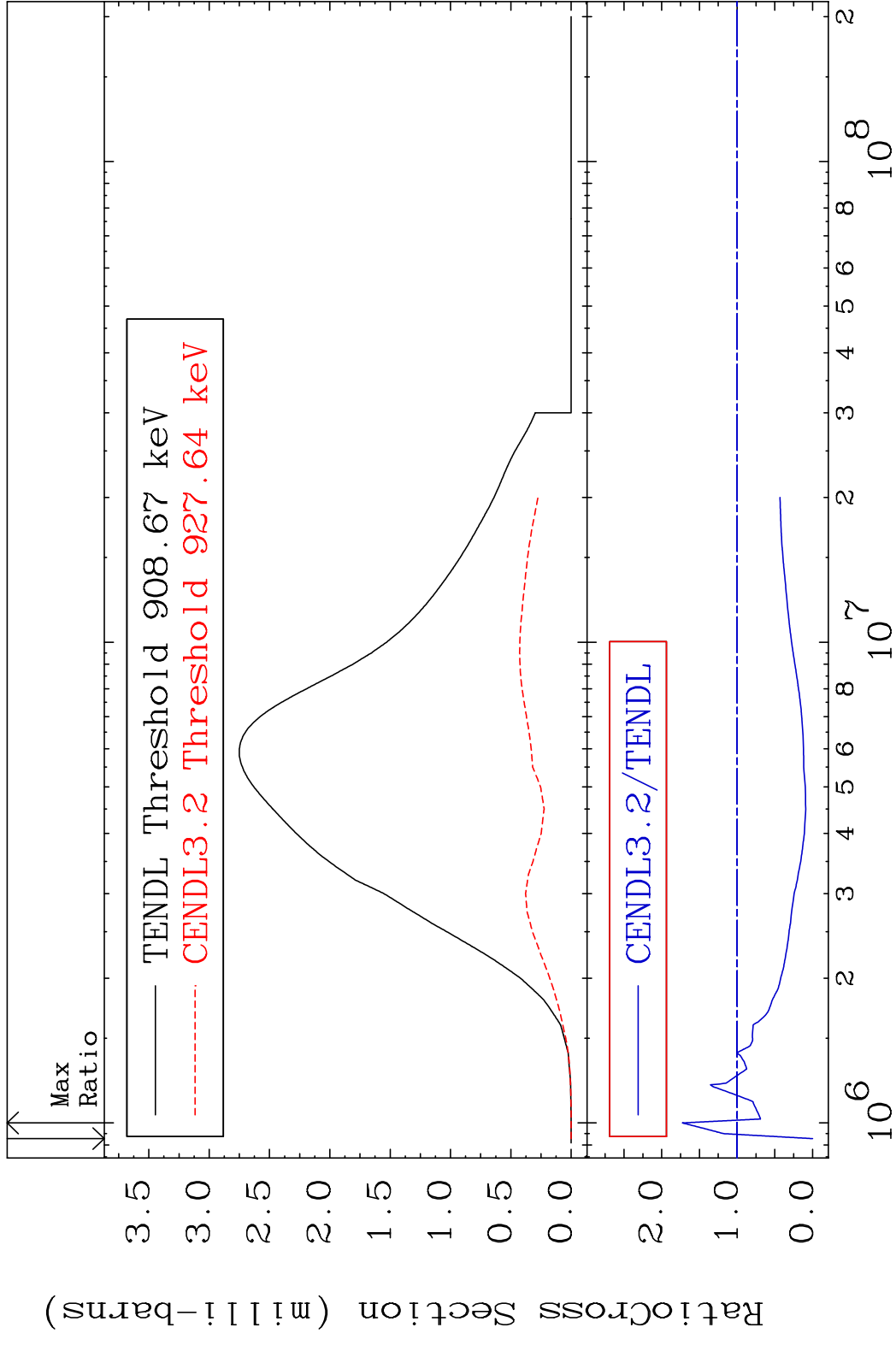


MAT 6255 MT= 53 (n, n') Level 62-Sm-154
 Cross Section -93.76 To 57.49 %

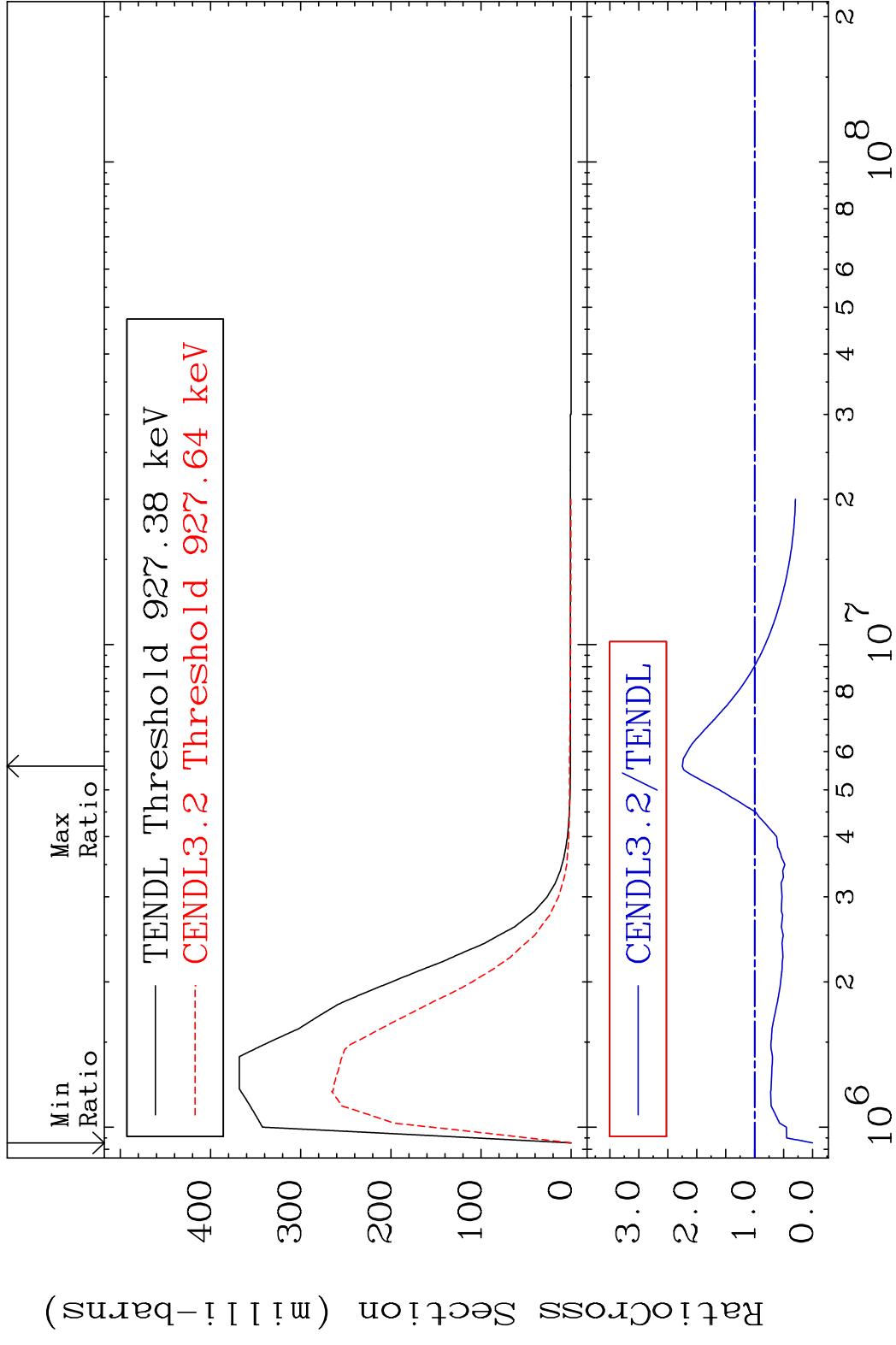


10 Incident Energy (eV) 62-Sm-154

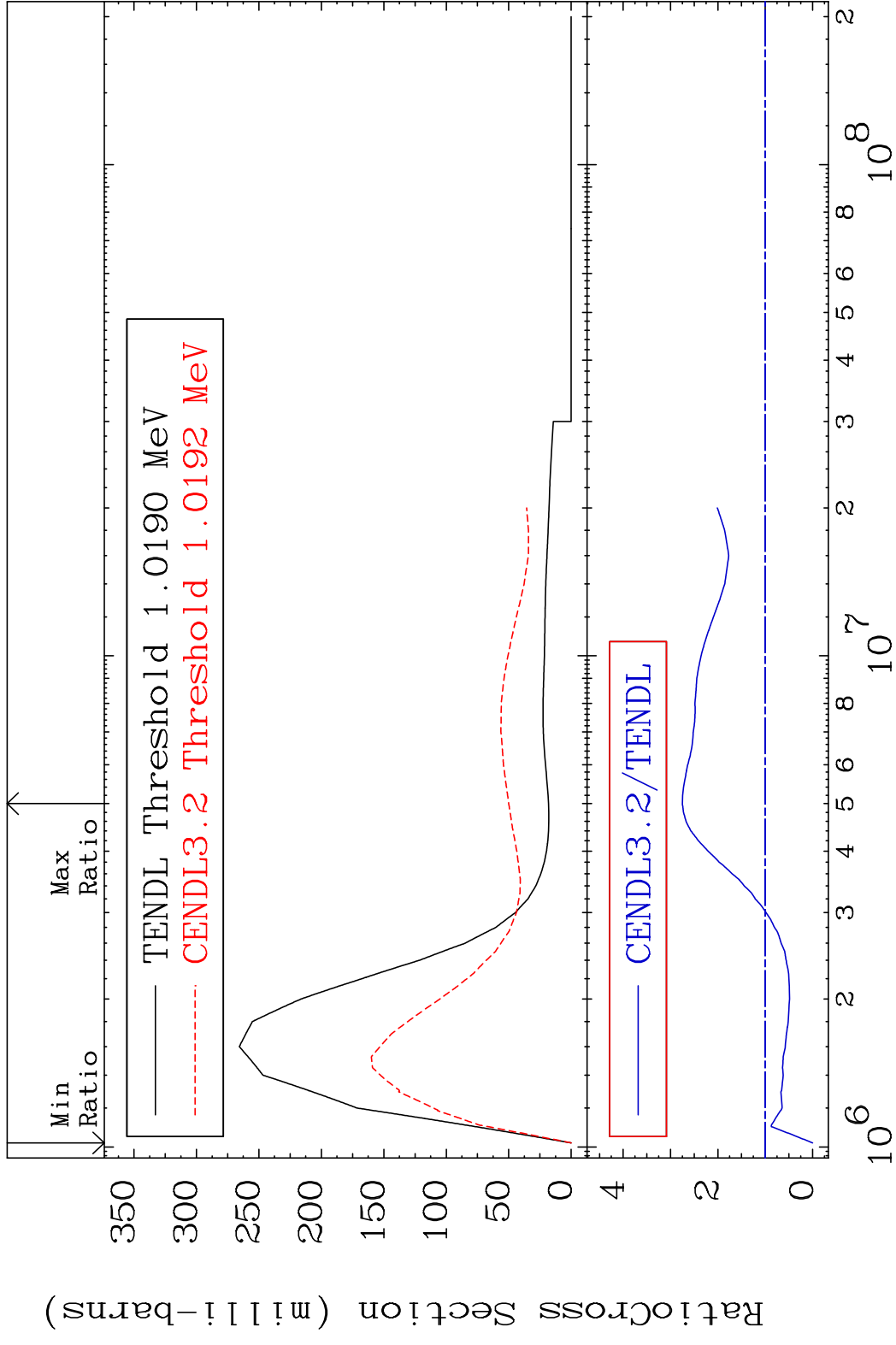
MAT 6255 MT= 54 (n,n') Level 62-Sm-154
 Cross Section -100.0 To 72.62 %



MAT 6255 MT= 55 (n,n') Level 62-Sm-154
 Cross Section -100.0 To 124.8 %

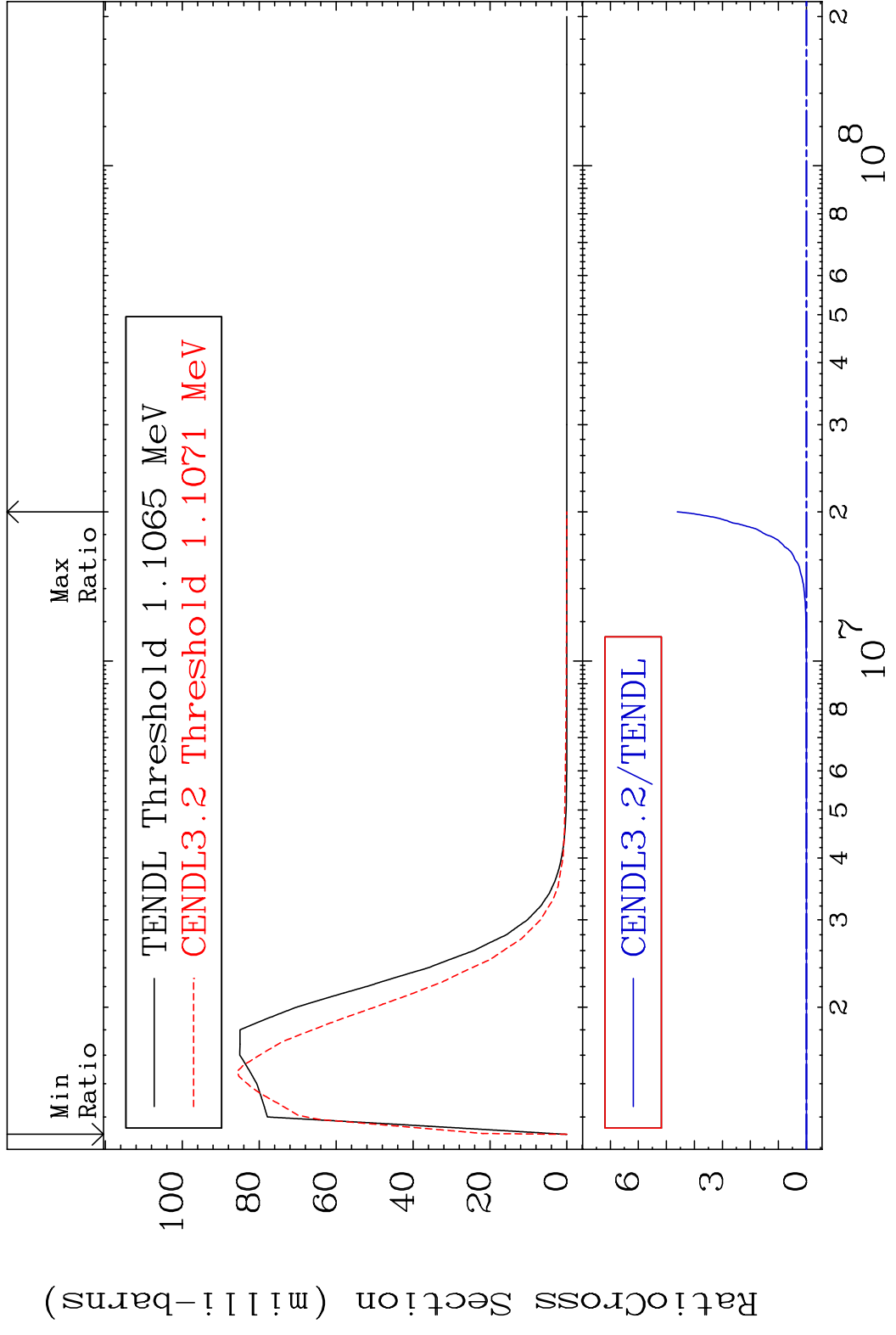


MAT 6255 MT= 56 (n,n') Level 62-Sm-154
 Cross Section -100.0 To 175.0 %

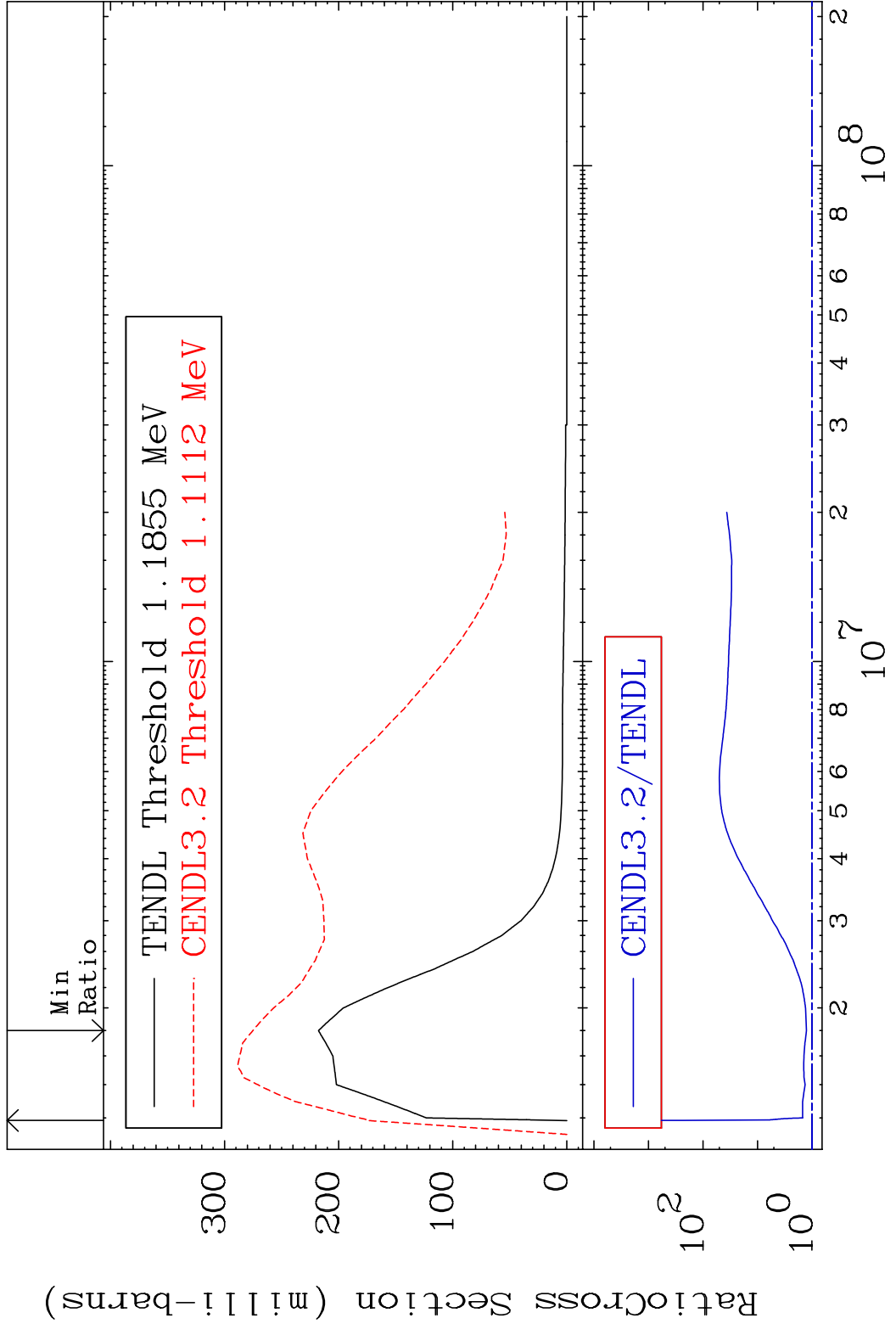


13 Incident Energy (eV) 62-Sm-154

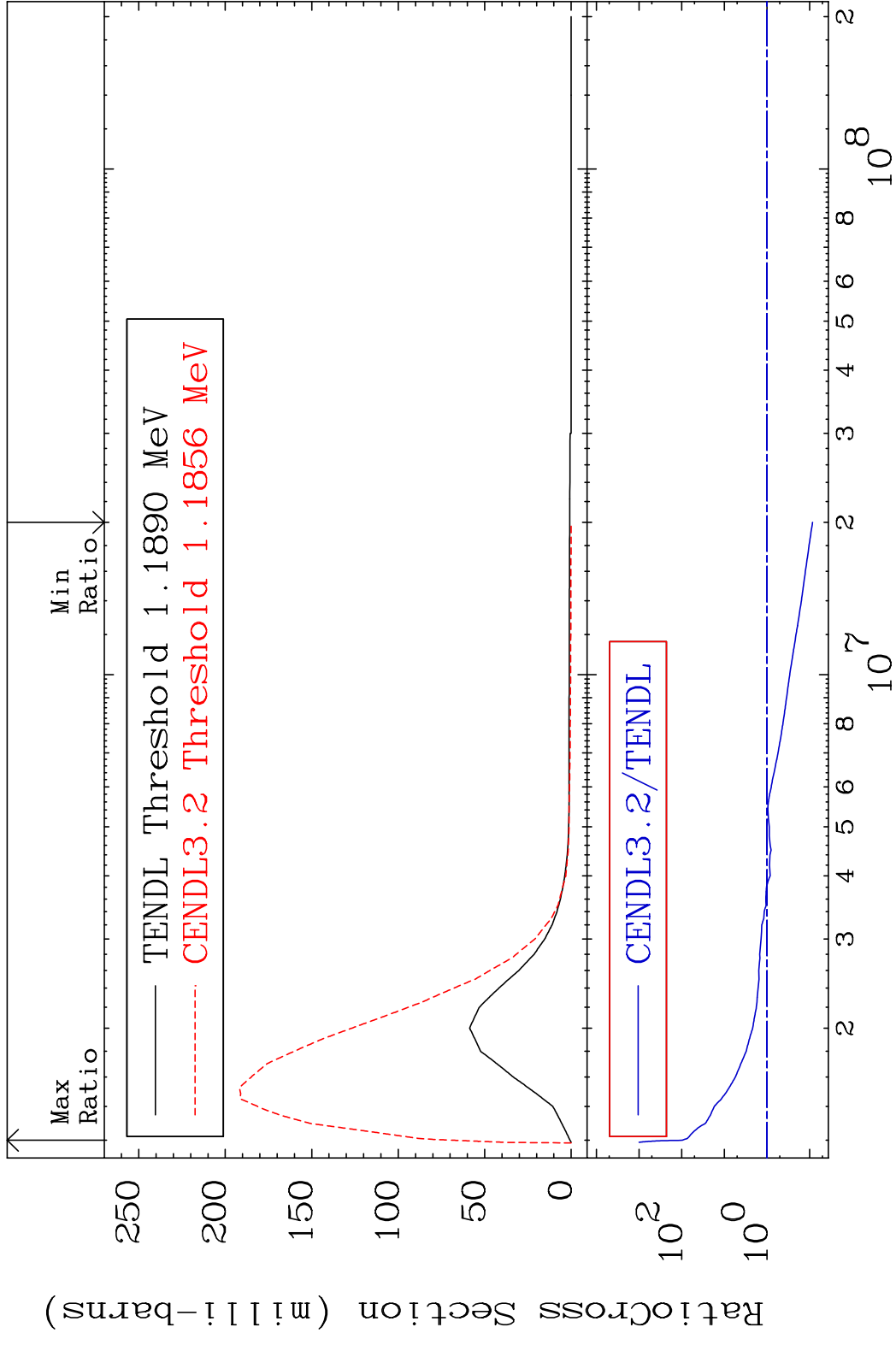
MAT 6255 MT= 57 (n, n') Level 62-Sm-154
 Cross Section -100.0 To 9999. %



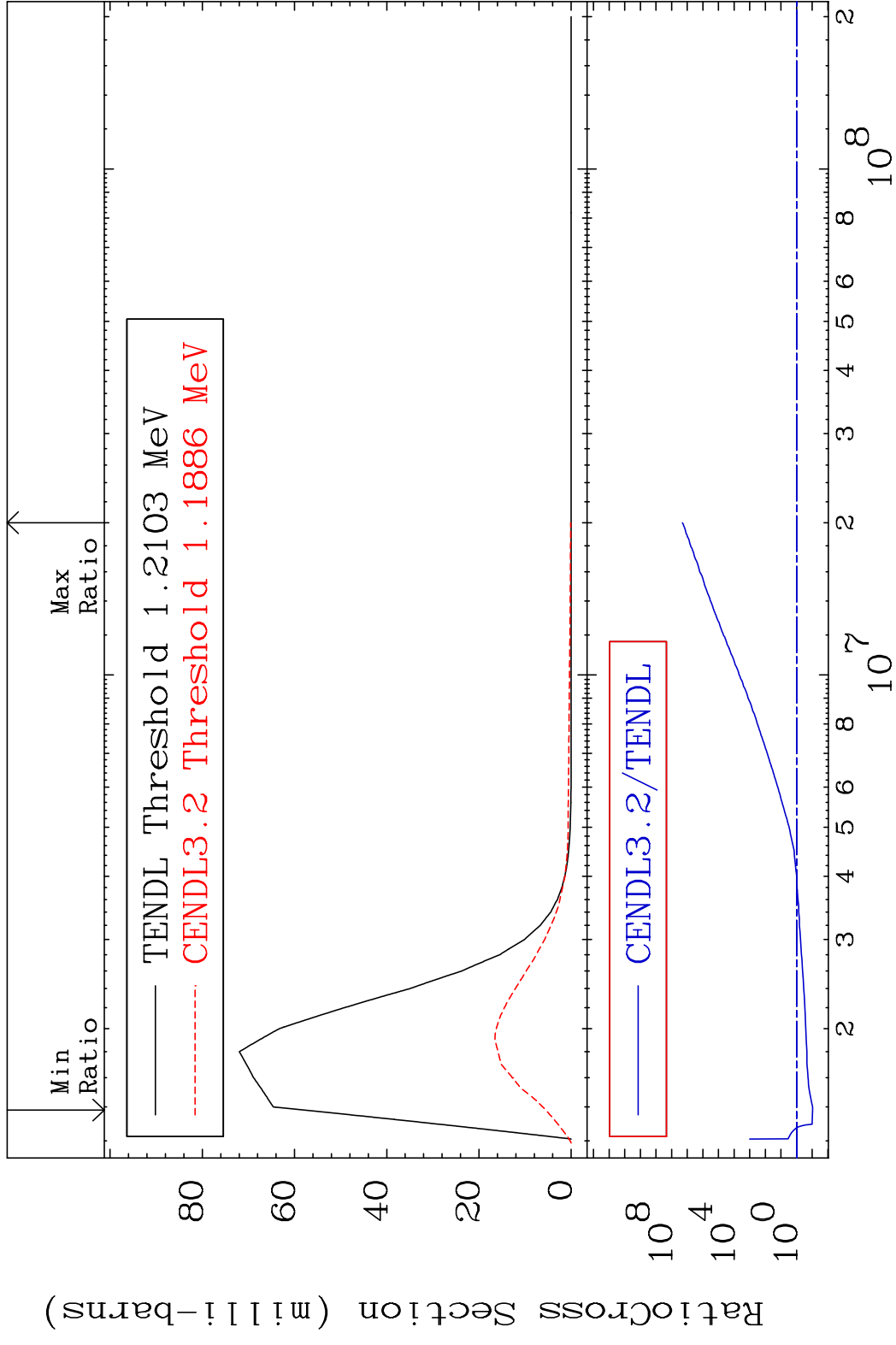
MAT 6255 MT= 58 (n,n') Level 62-Sm-154
 Cross Section 26.41 To 9999. %



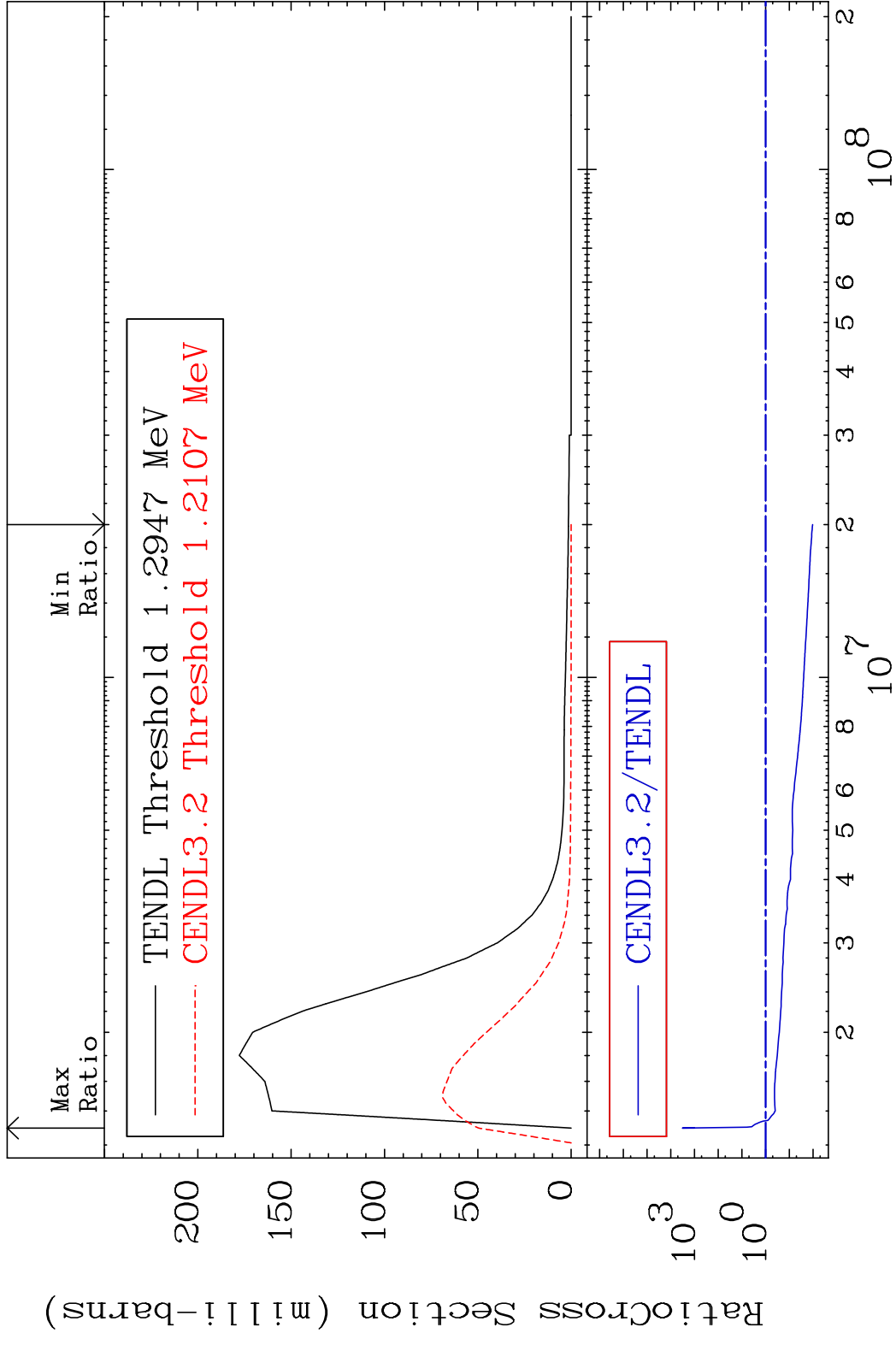
MAT 6255 MT= 59 (n, n') Level 62-Sm-154
 Cross Section -91.45 To 9526. %



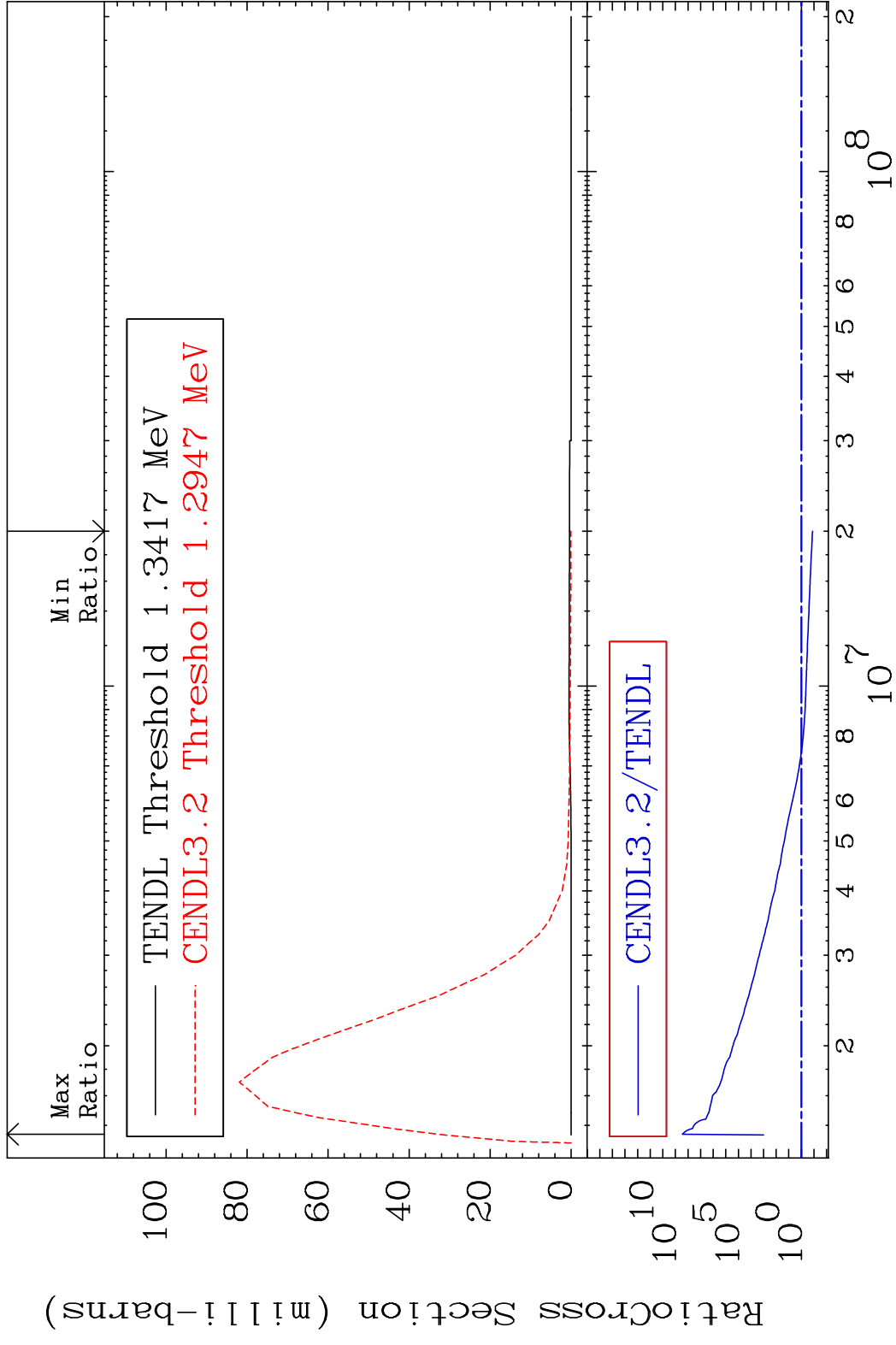
MAT 6255 MT= 60 (n, n') Level 62-Sm-154
 Cross Section -90.52 To 9999. %



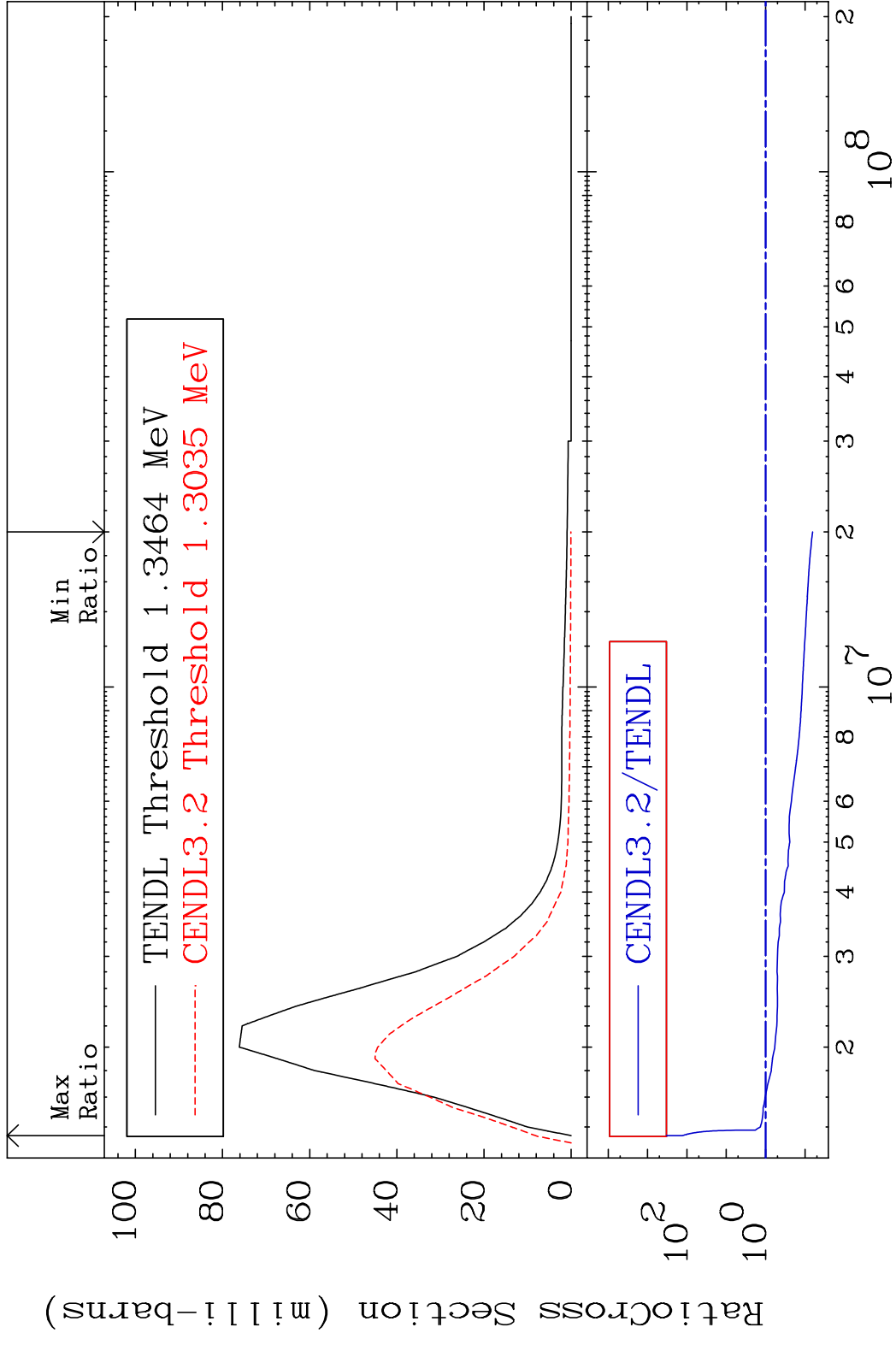
MAT 6255 MT= 61 (n, n') Level 62-Sm-154
 Cross Section -98.95 To 9999. %



MAT 6255 MT= 62 (n, n') Level 62-Sm-154
 Cross Section -87.12 To 9999. %

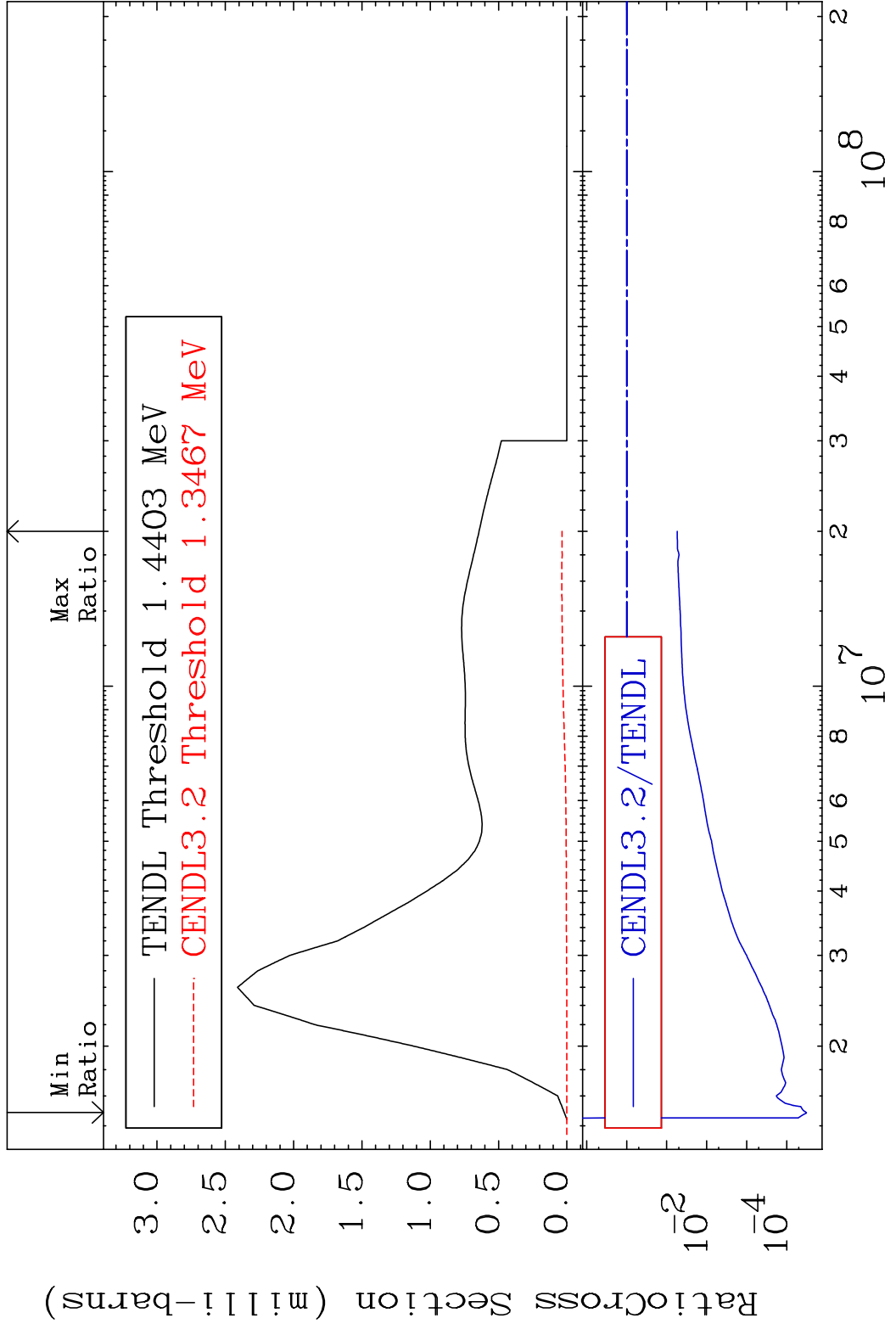


MAT 6255 MT= 63 (n, n') Level 62-Sm-154
 Cross Section -93.58 To 9999. %

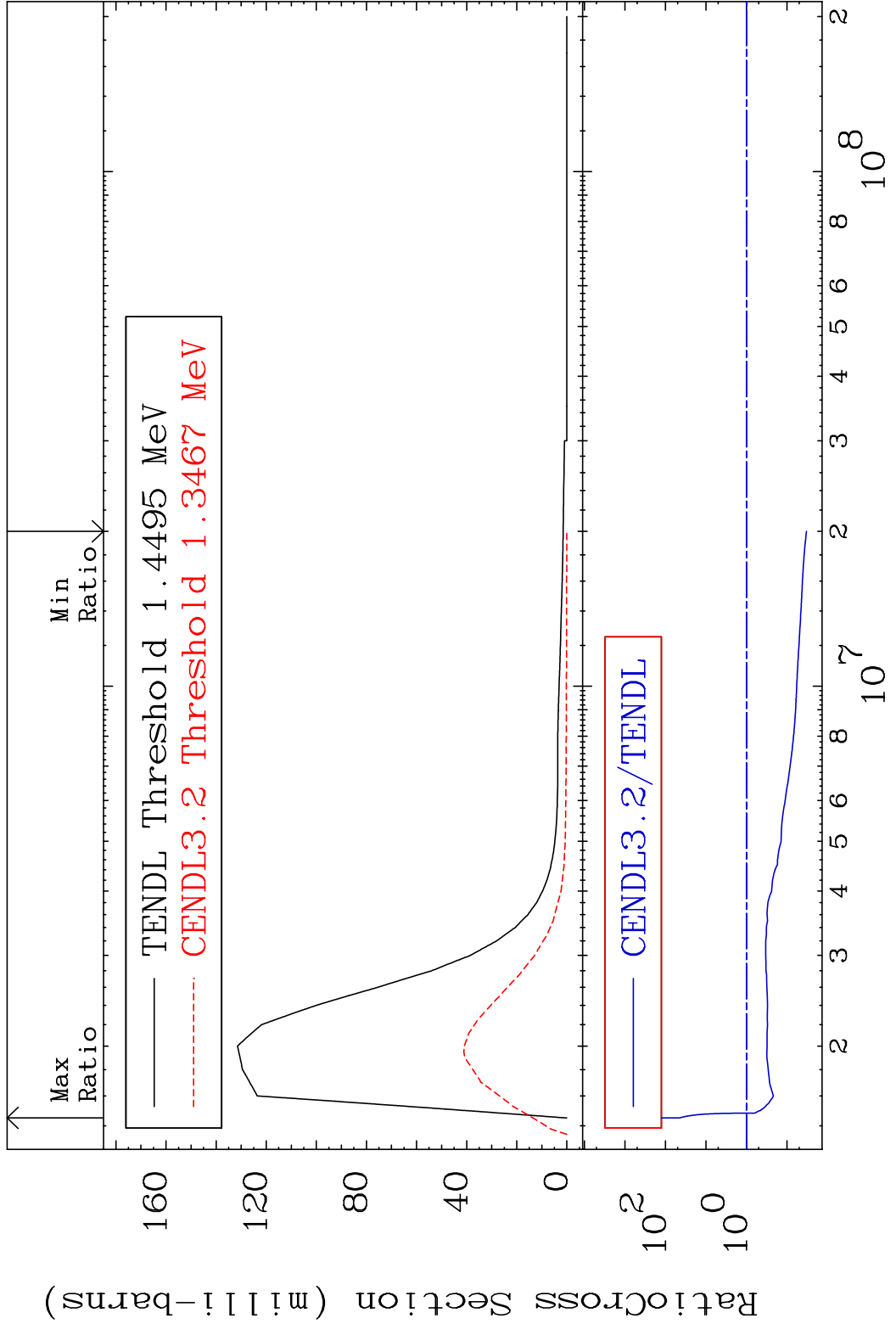


20 Incident Energy (eV) 62-Sm-154

MAT 6255 MT= 64 (n, n') Level 62-Sm-154
 Cross Section -100.0 To -94.54%

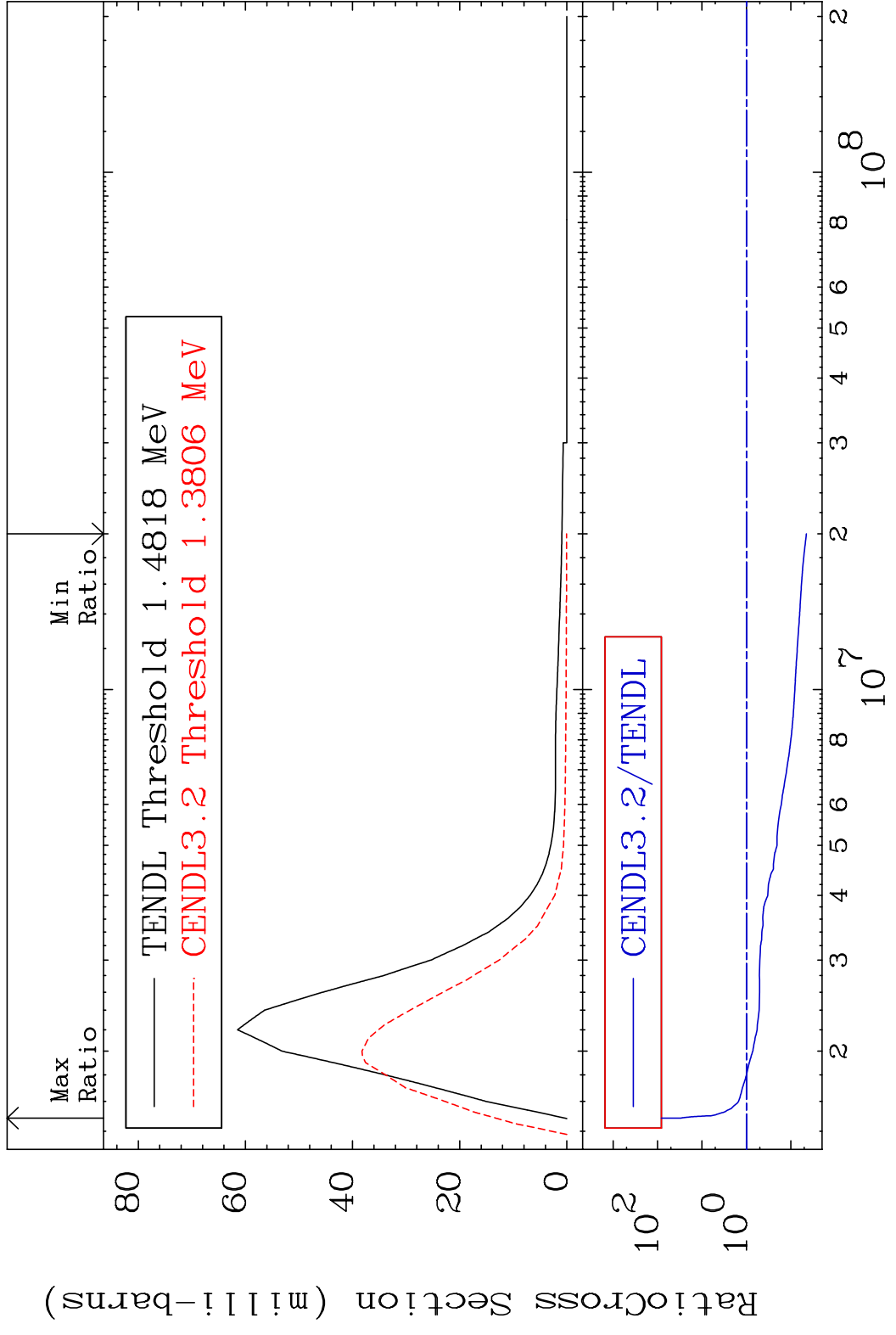


MAT 6255 MT= 65 (n, n') Level 62-Sm-154
 Cross Section -96.68 To 5016. %

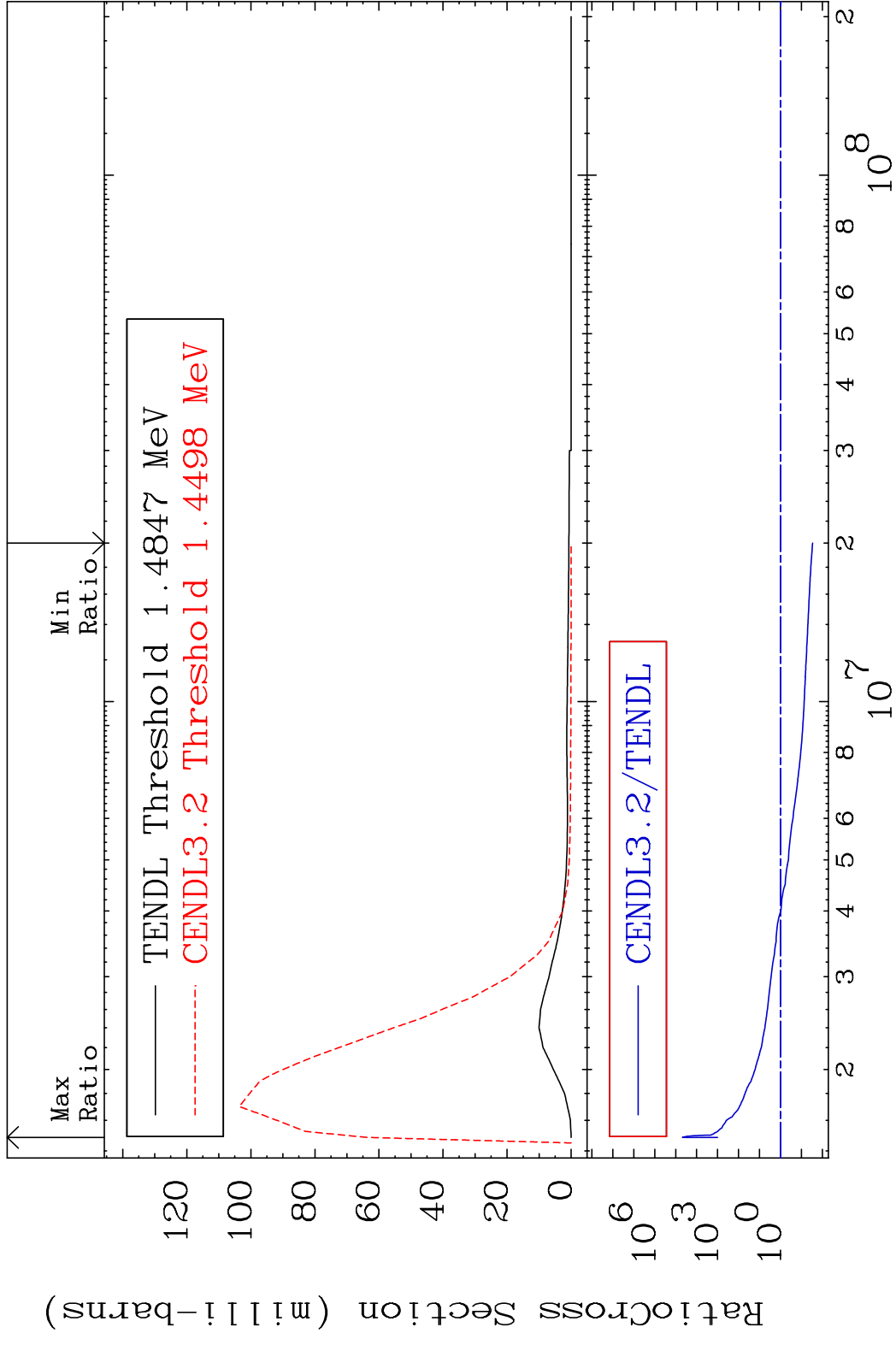


22 Incident Energy (eV) 62-Sm-154

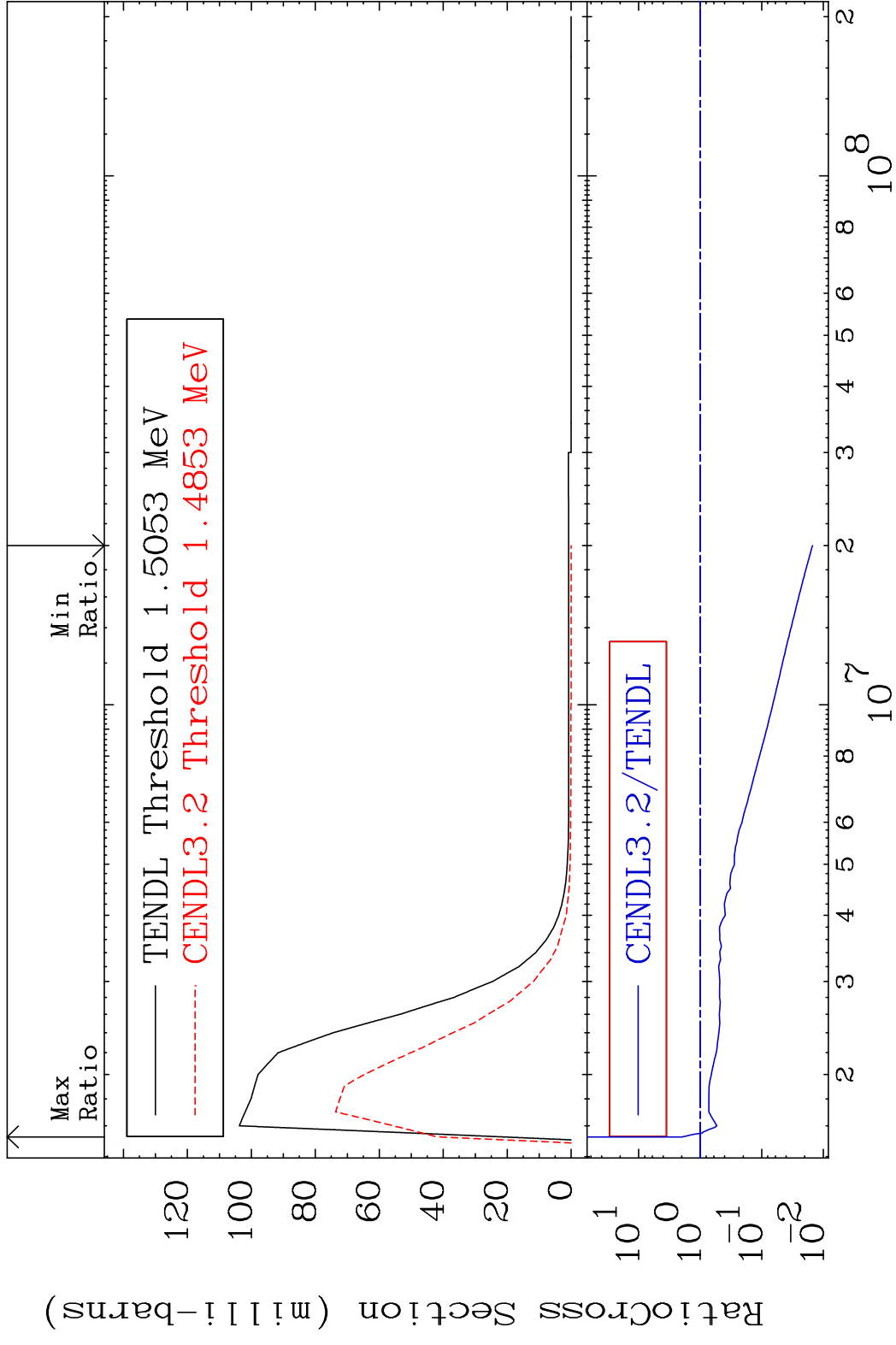
MAT 6255 MT= 66 (n, n') Level 62-Sm-154
 Cross Section -95.53 To 3509. %



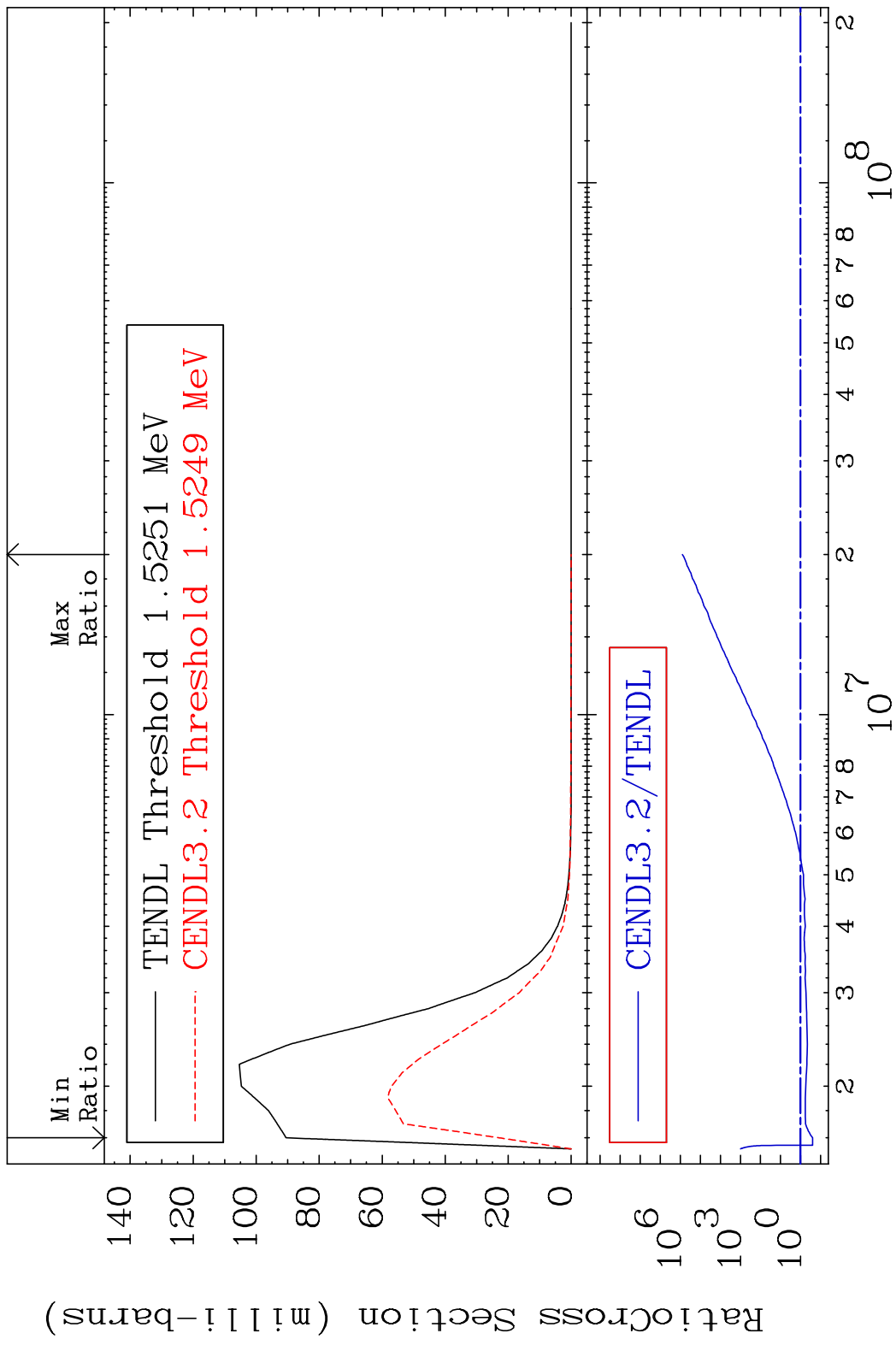
MAT 6255 MT= 67 (n,n') Level 62-Sm-154
 Cross Section -97.08 To 9999. %



MAT 6255 MT= 68 (n,n') Level 62-Sm-154
 Cross Section -98.51 To 95.08 %



MAT 6255 MT= 69 (n, n') Level 62-Sm-154
 Cross Section -74.76 To 9999. %

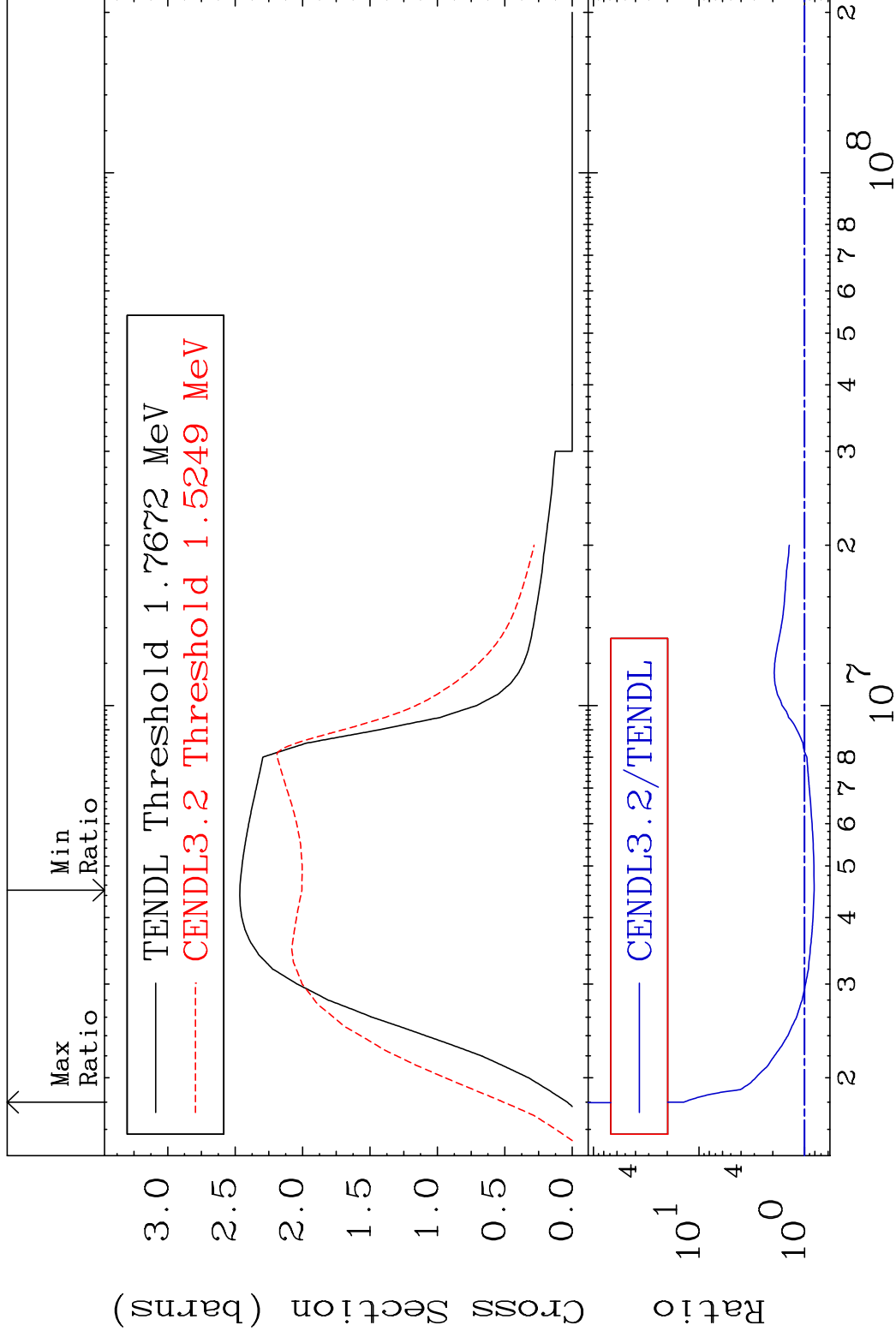


MAT 6255

(n, n') Continuum

62-Sm-154

Cross Section -18.62 To 1300. %

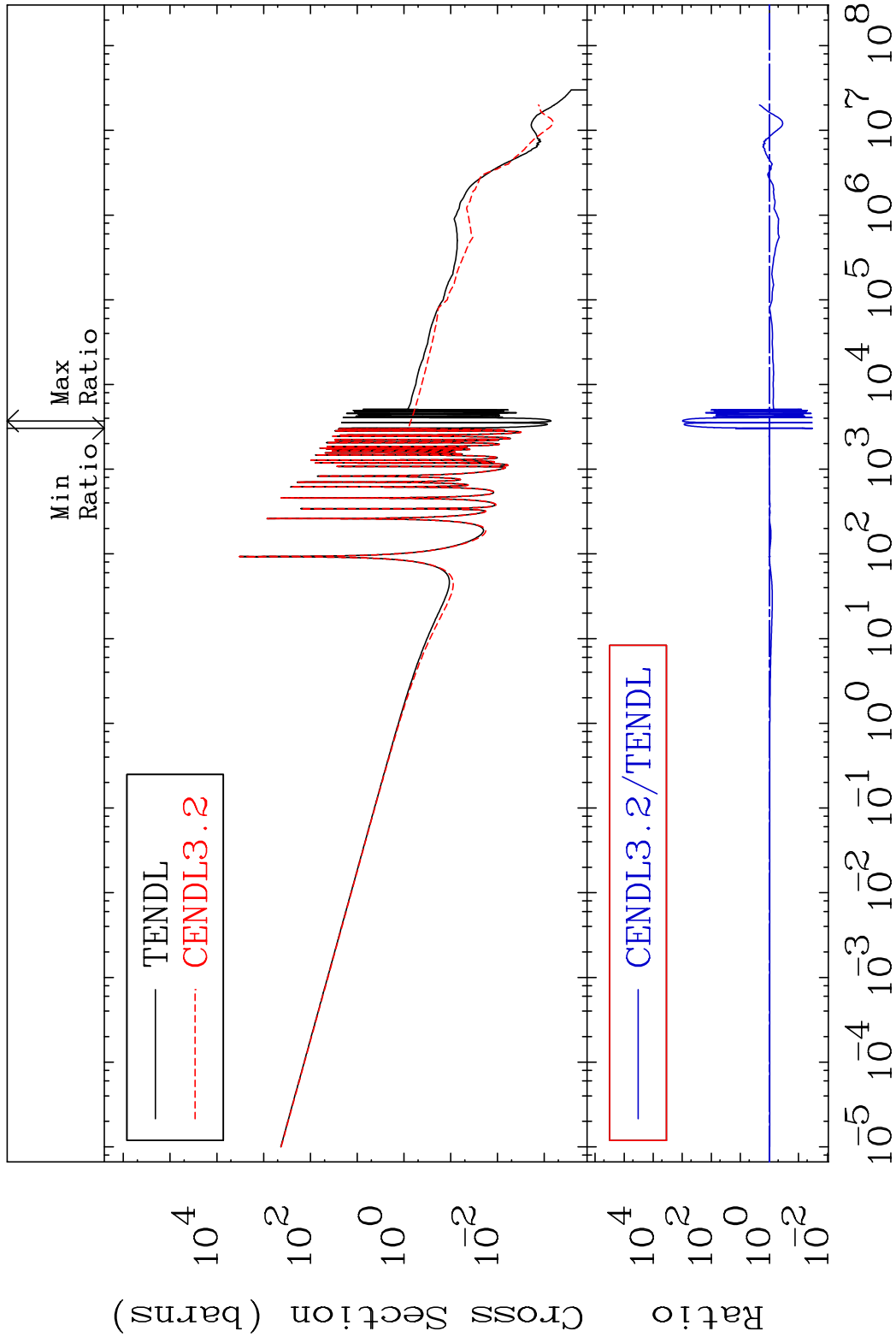


MAT 6255

(n, γ)

62-Sm-154

Cross Section -96.72 To 9999. %



28

Incident Energy (eV)

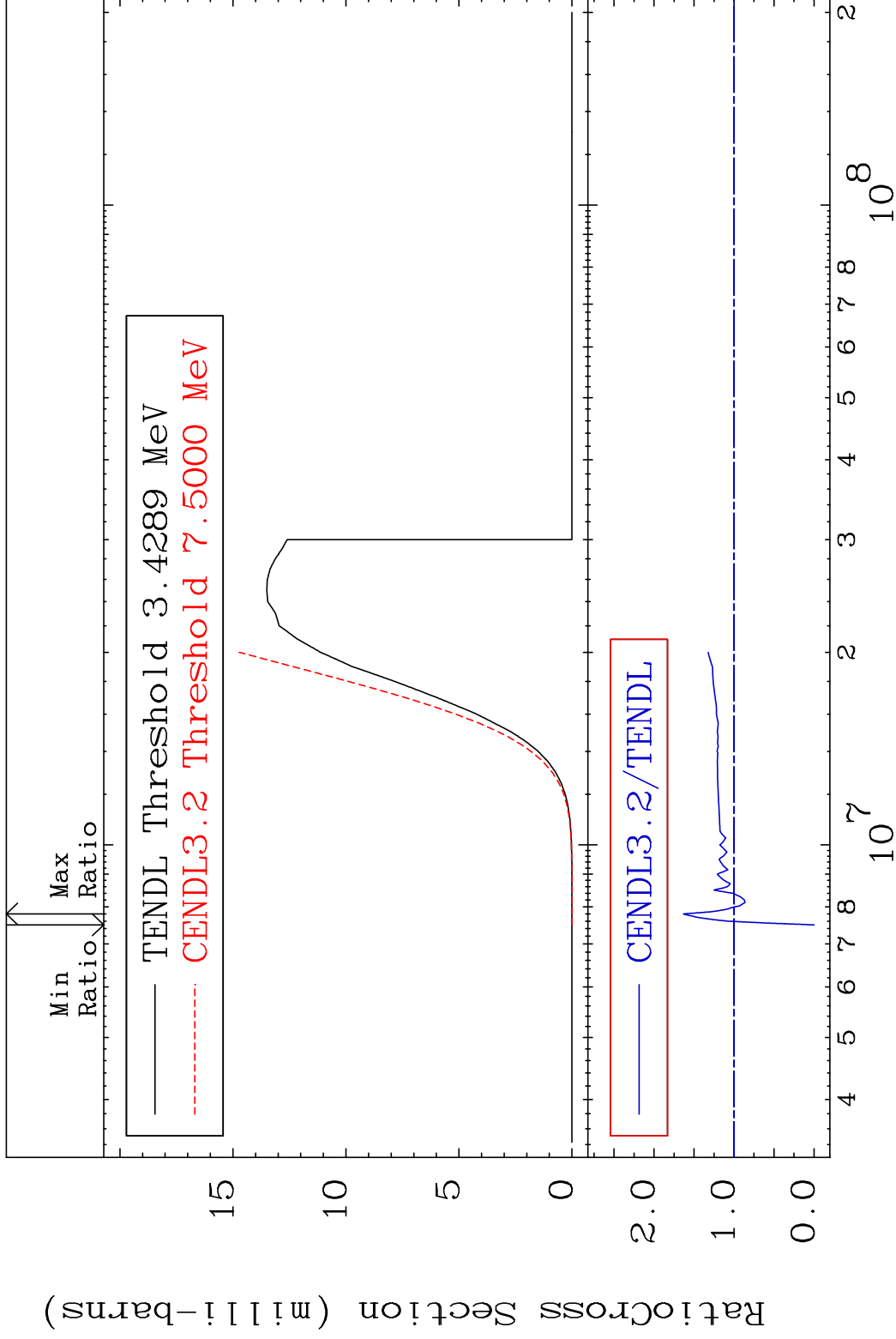
62-Sm-154

MAT 6255

(n,p)

62-Sm-154

Cross Section -100.0 To 63.24 %

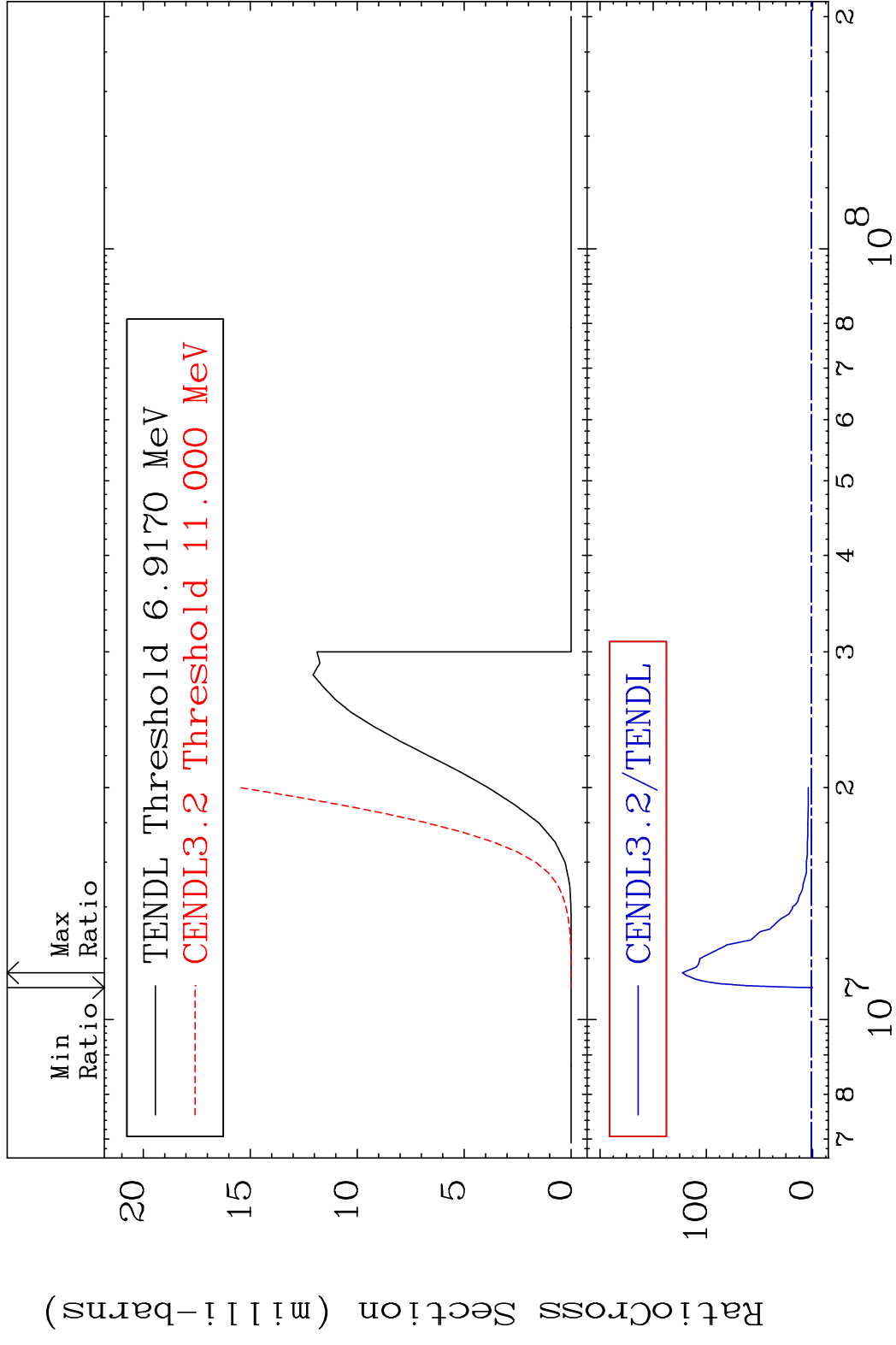


29

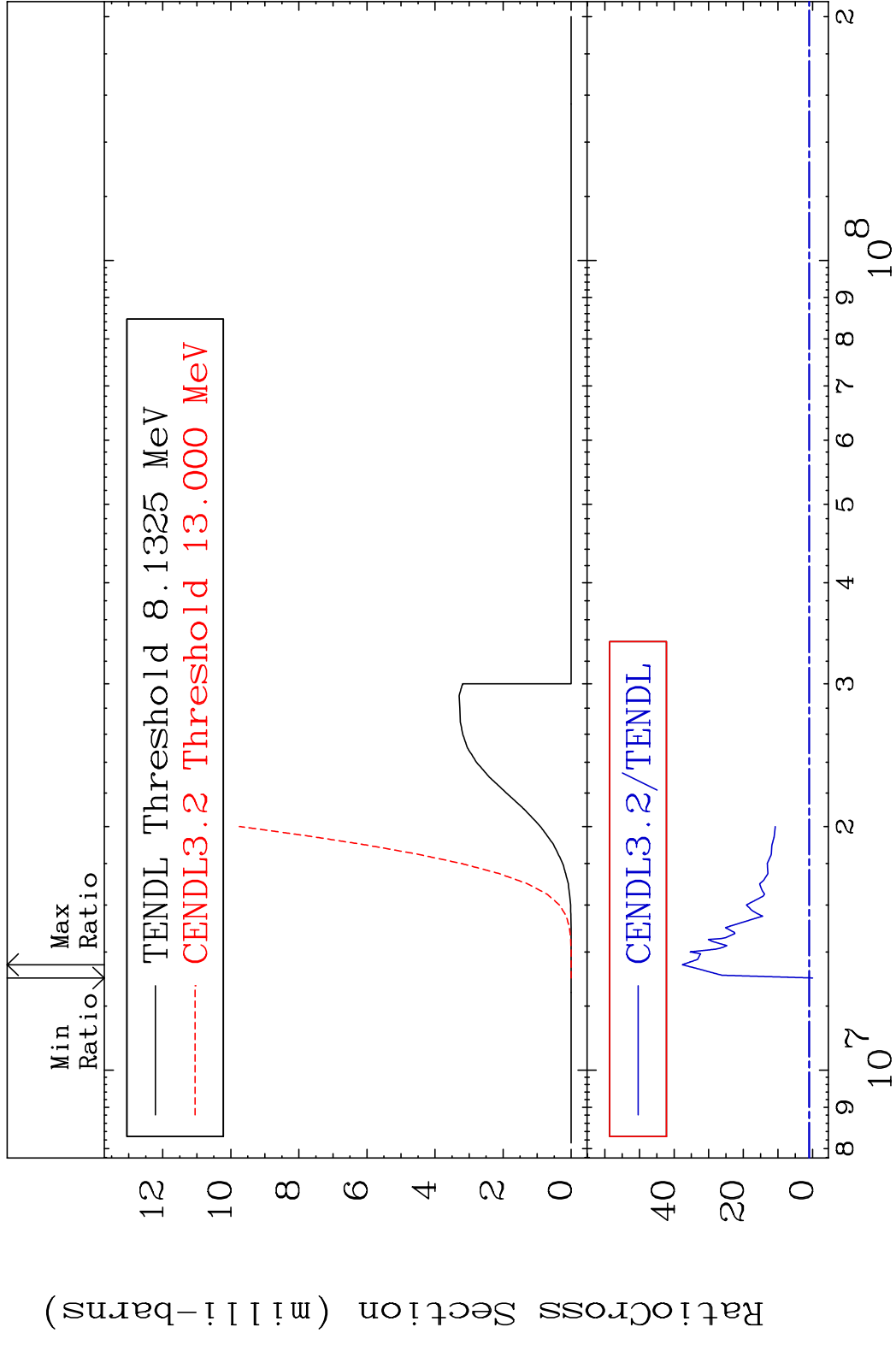
Incident Energy (eV)

62-Sm-154

MAT 6255 (n,d) 62-Sm-154
 Cross Section -100.0 To 9999. %



MAT 6255 (n, t) 62-Sm-154
 Cross Section -100.0 To 3661. %

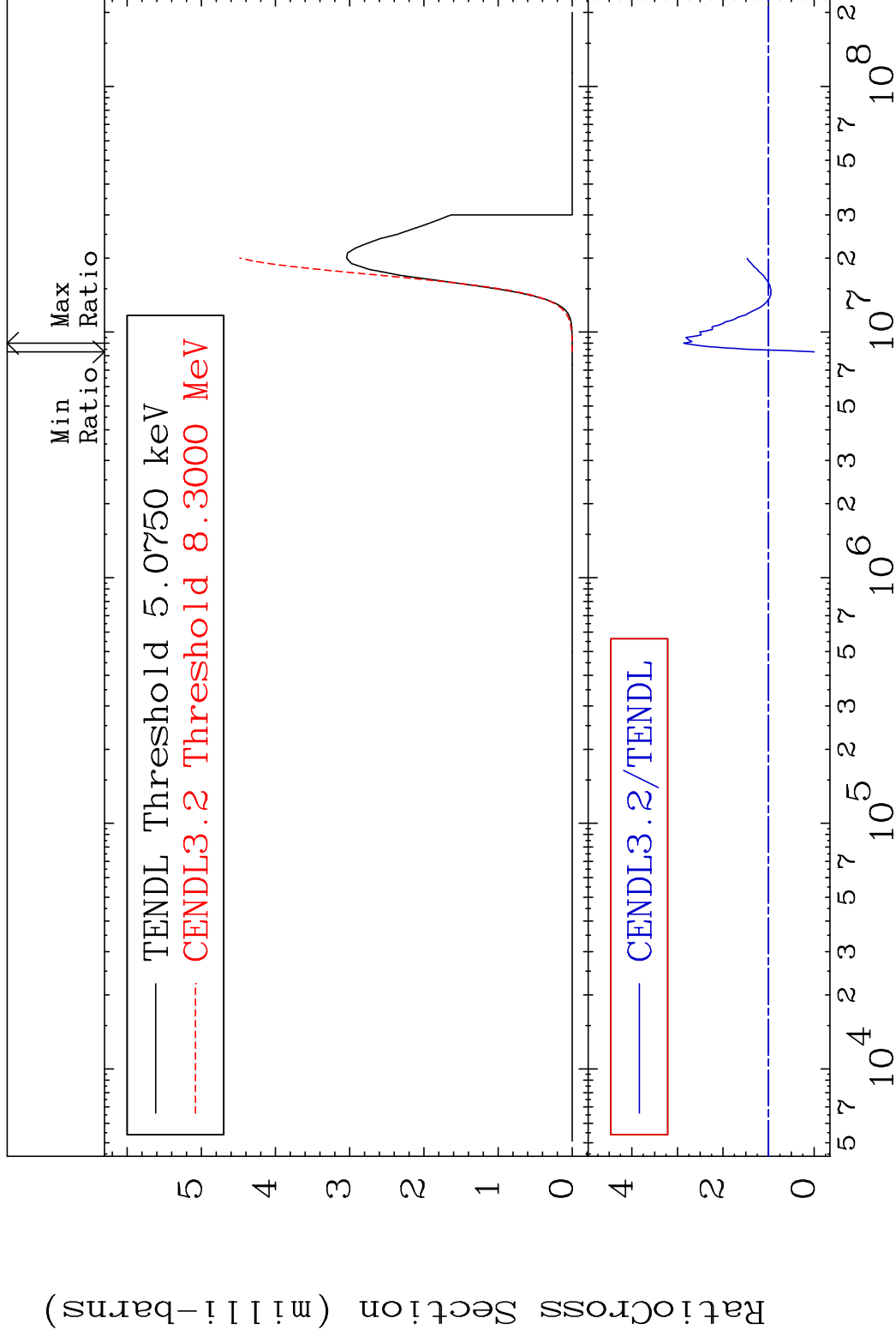


MAT 6255

(n, α)

62-Sm-154

Cross Section -100.0 To 186.4 %



32

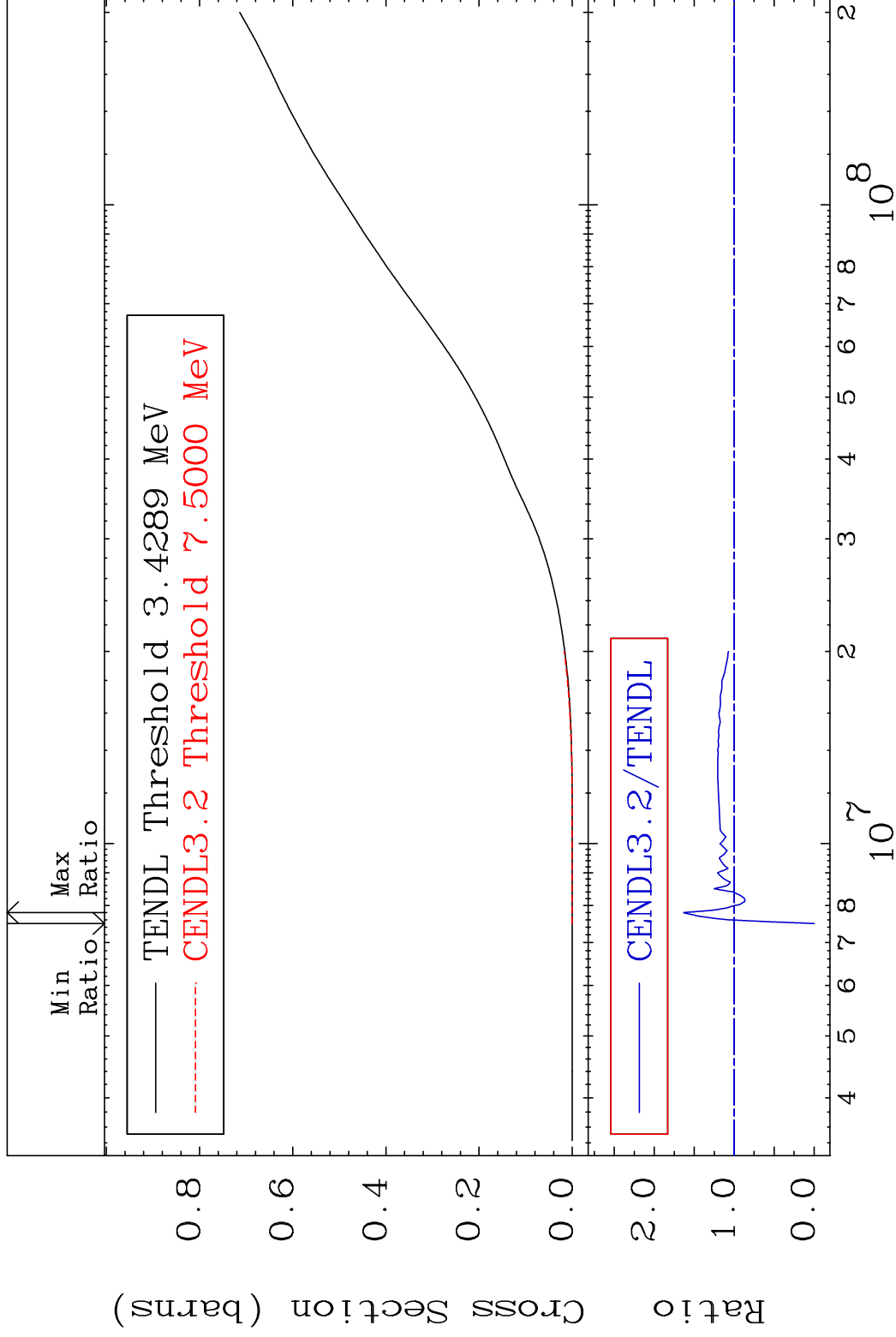
Incident Energy (eV)

62-Sm-154

MAT 6255

Hydrogen Production
Cross Section -100.0 To 63.24 %

62-Sm-154

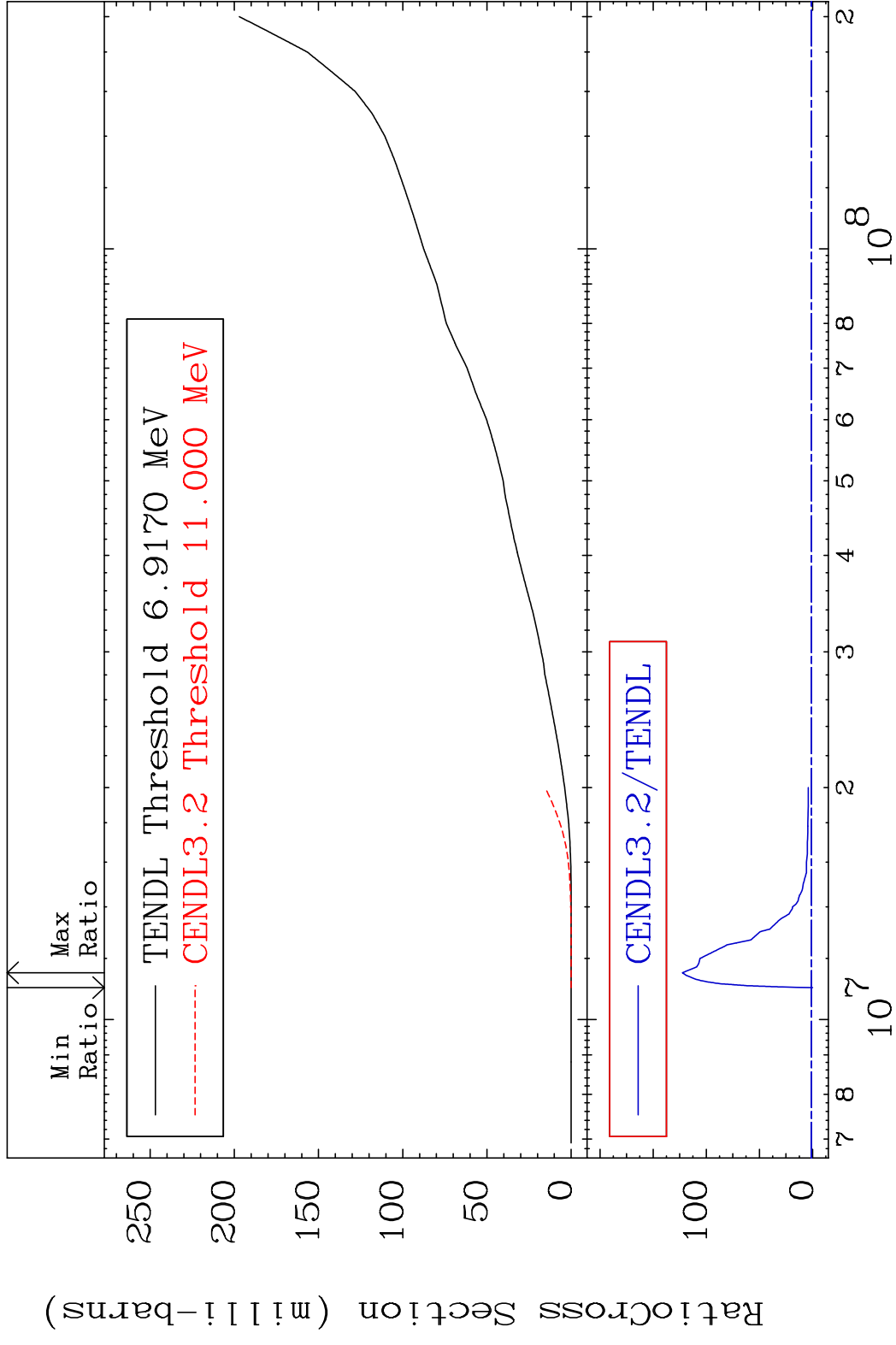


33

Incident Energy (eV)

62-Sm-154

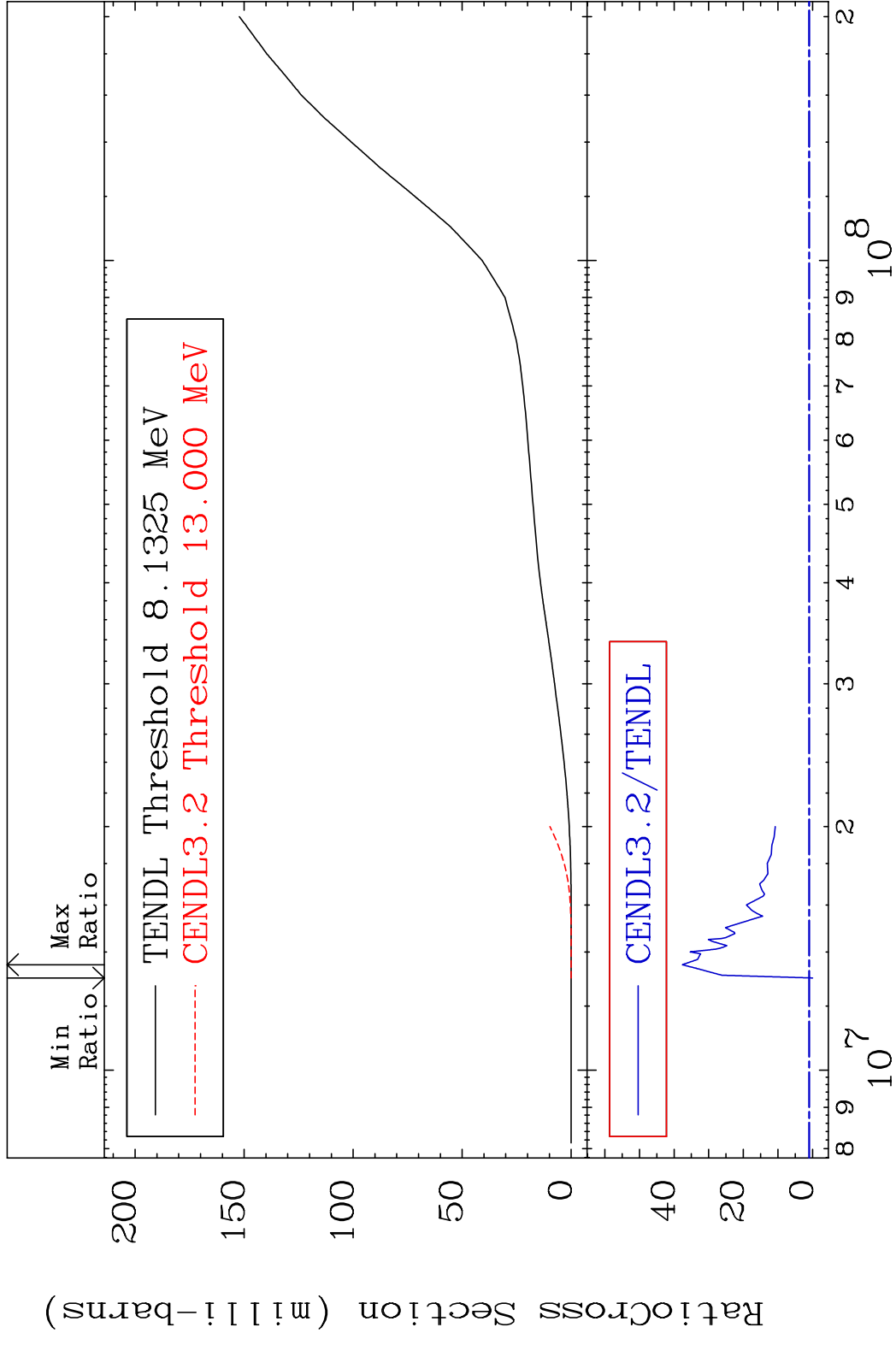
MAT 6255 Deuterium Production 62-Sm-154
 Cross Section -100.0 To 9999. %



MAT 6255

Tritium Production 62-Sm-154

Cross Section -100.0 To 3661. %



35

Incident Energy (eV)

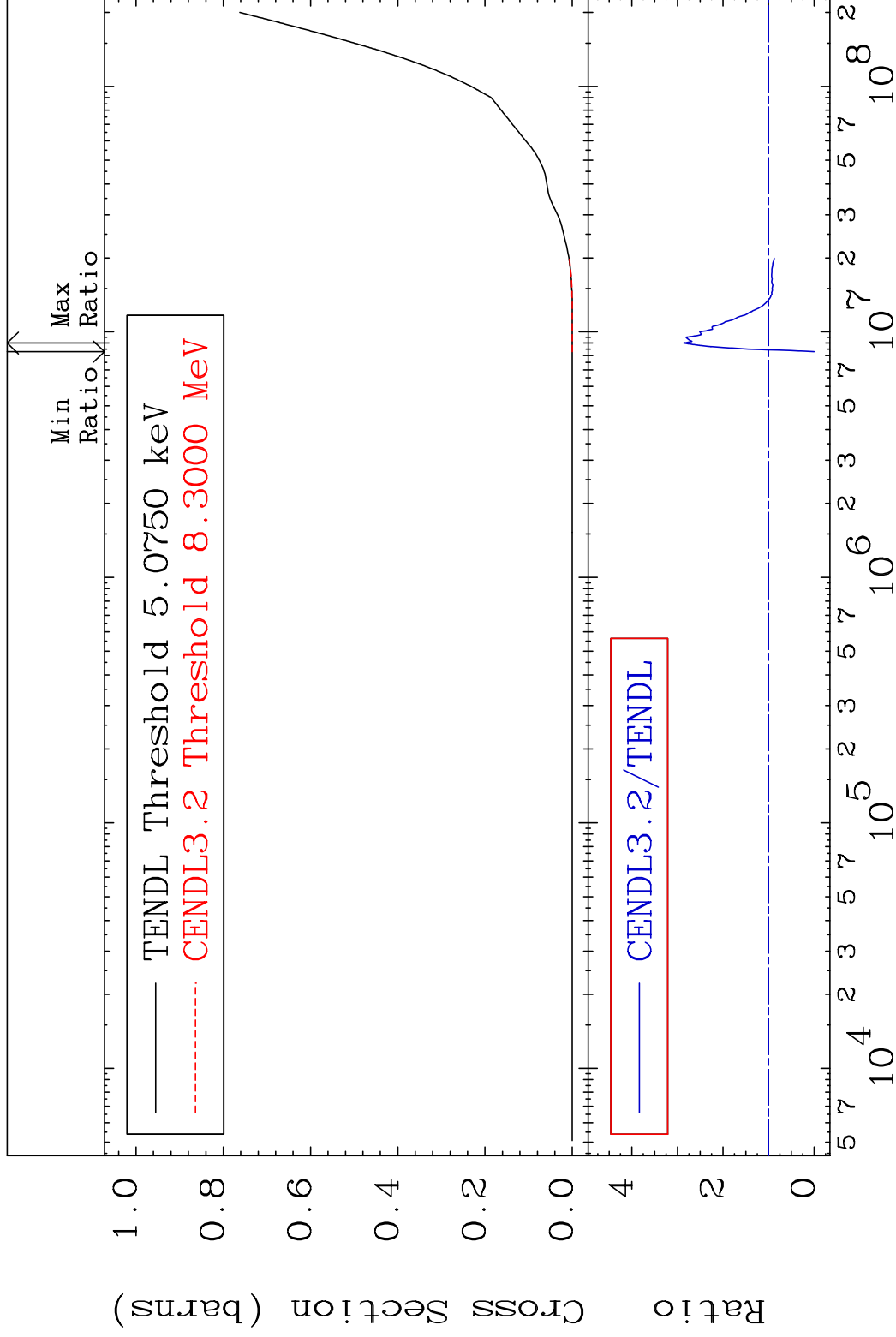
62-Sm-154

MAT 6255

He-4 Production

62-Sm-154

Cross Section -100.0 To 186.4 %

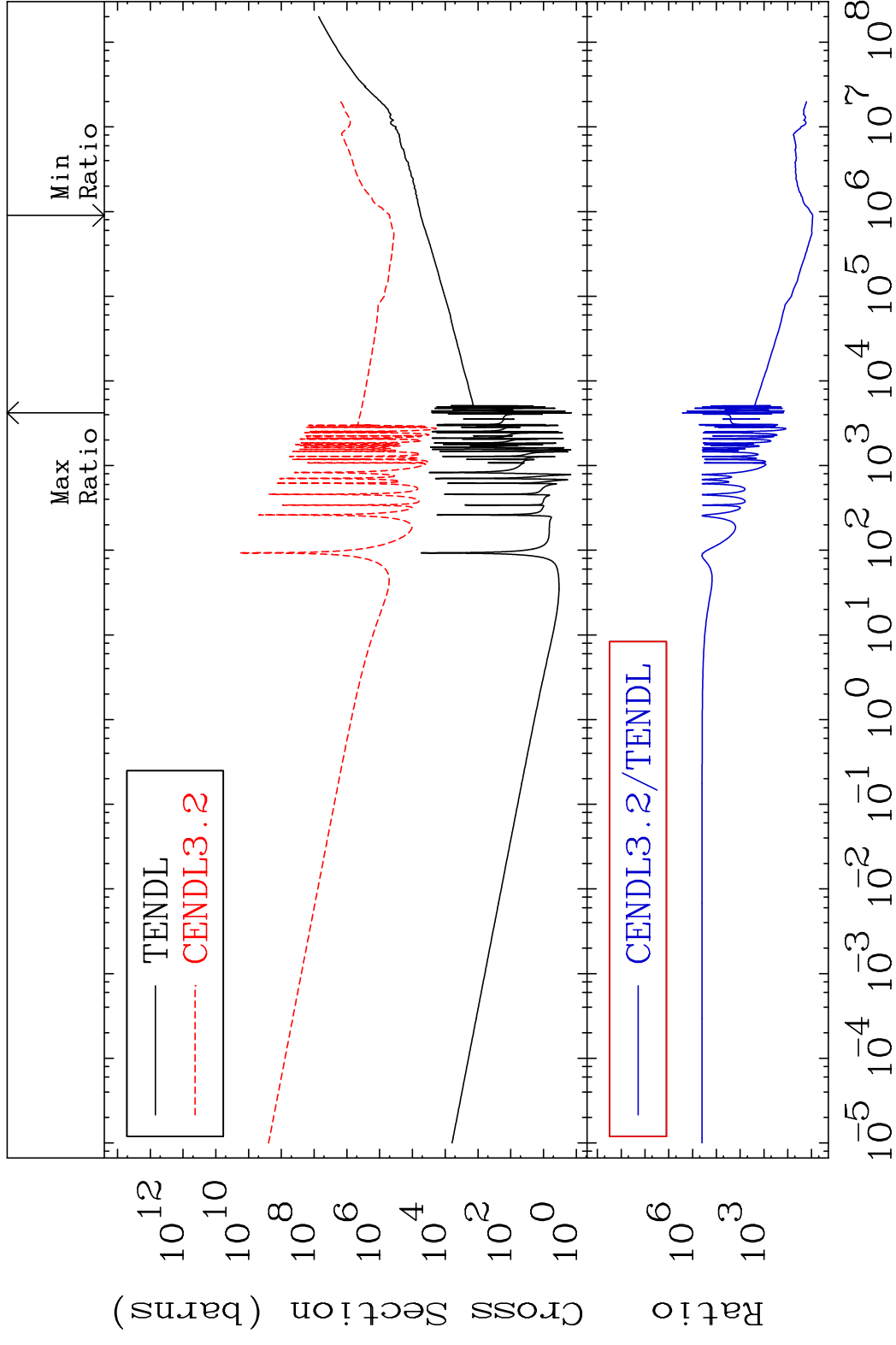


36

Incident Energy (eV)

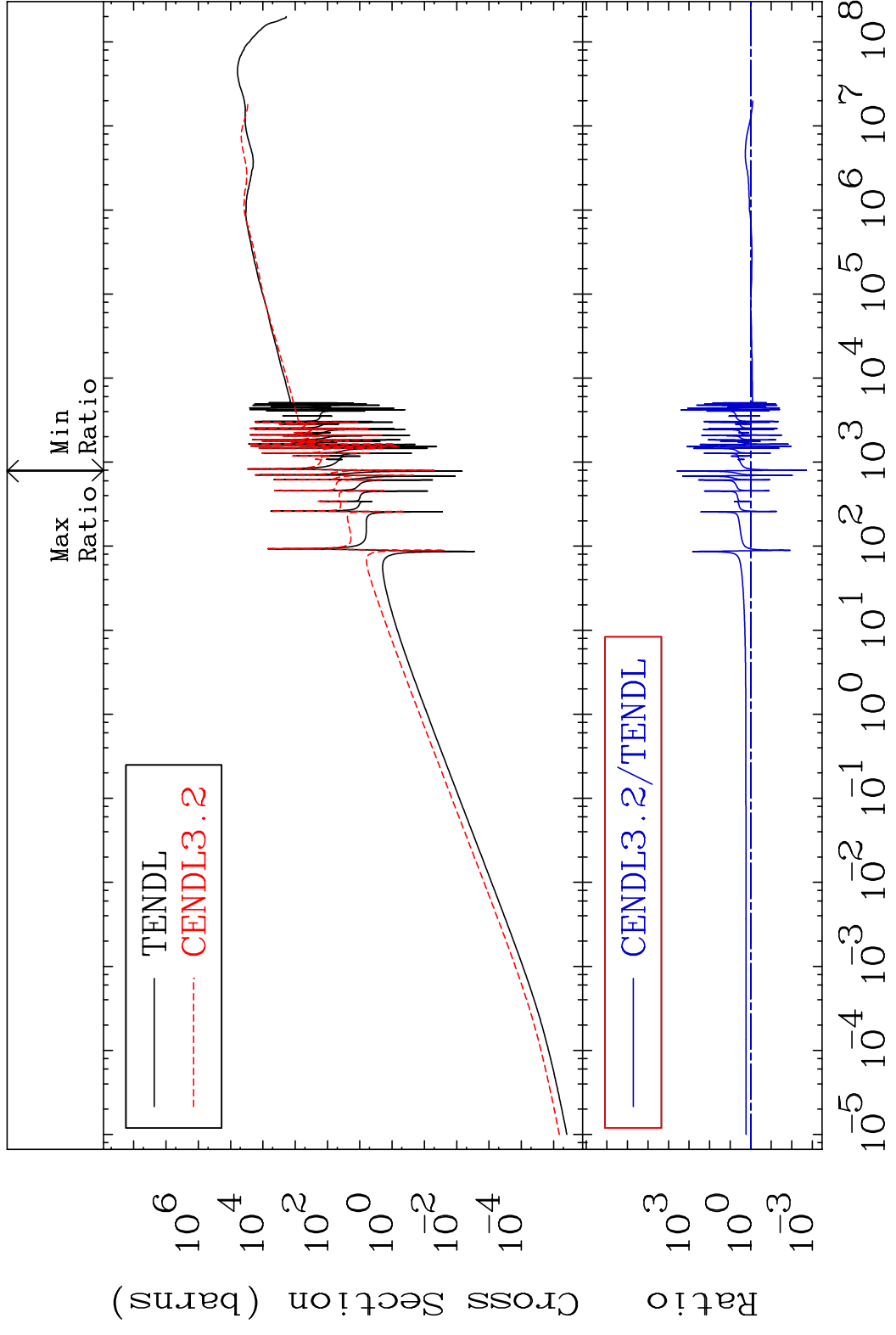
62-Sm-154

MAT 6255 Kerma total (eV-barns) 62-Sm-154
 Cross Section 804.7 To 9999. %

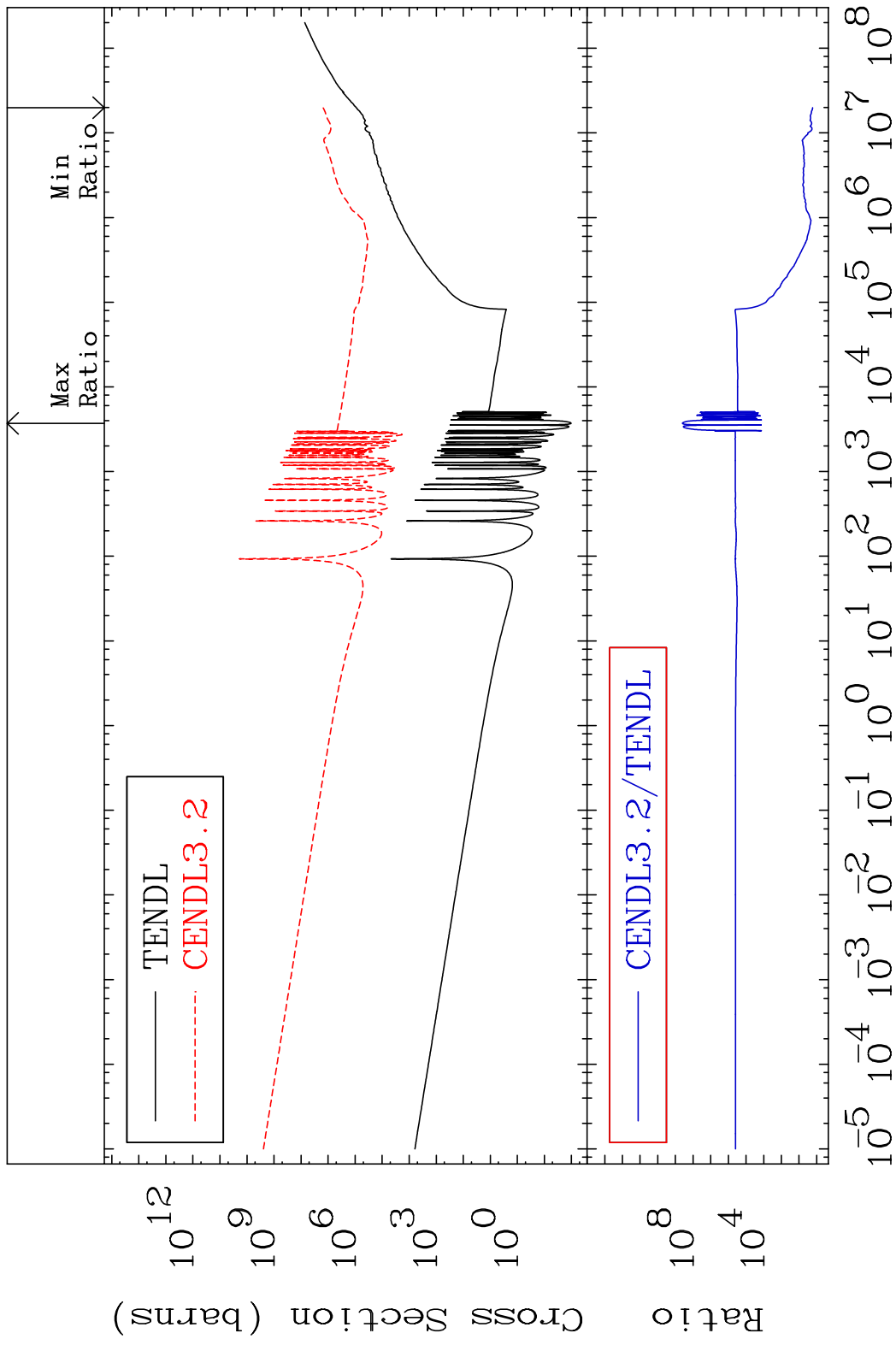


MAT 6255

Kerma elastic Cross Section -99.81 To 9999. %
62-Sm-154

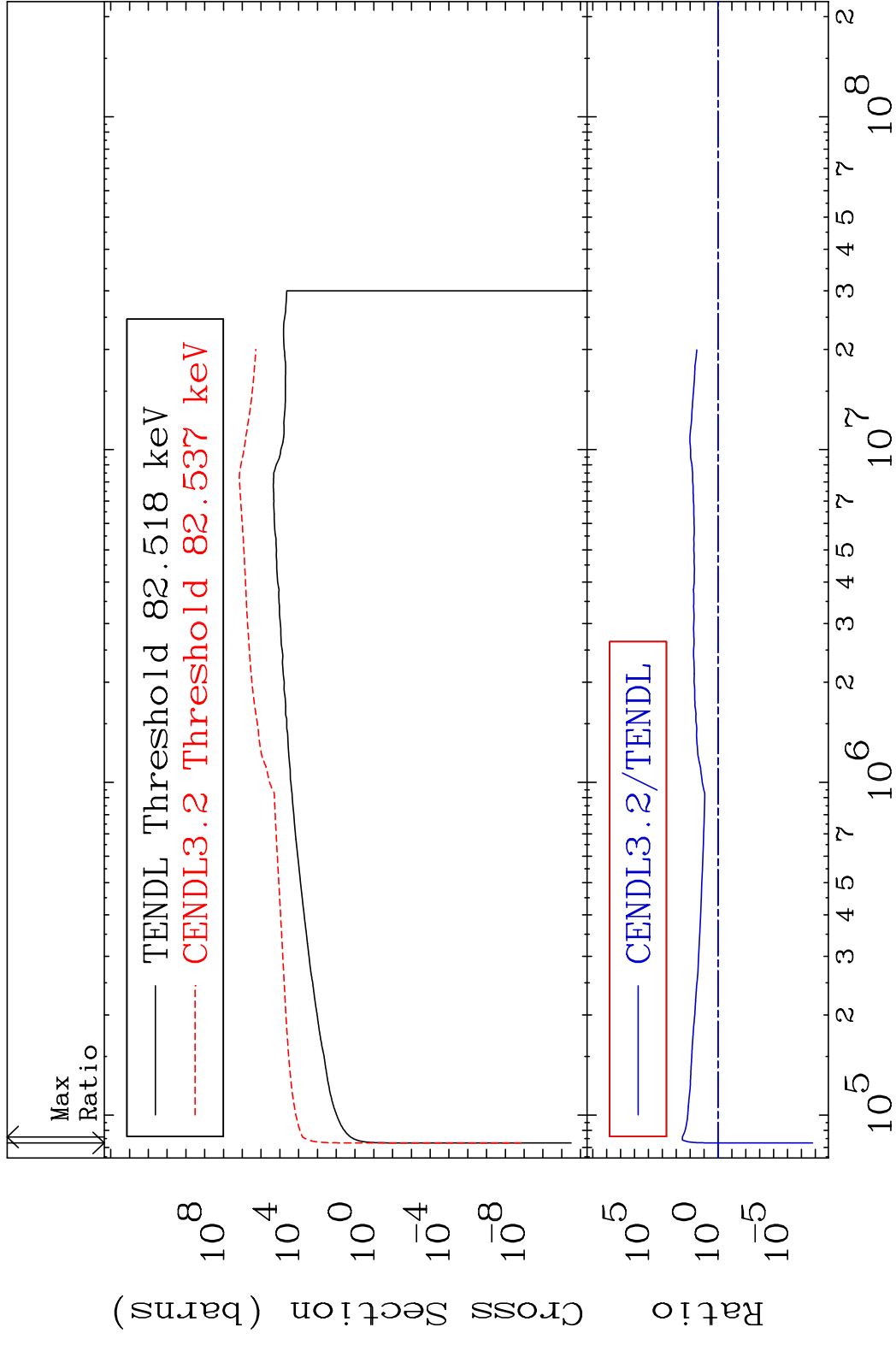


MAT 6255 Kerma non-elastic (all but mt2) 62-Sm-154
 Cross Section 1614. To 9999. %



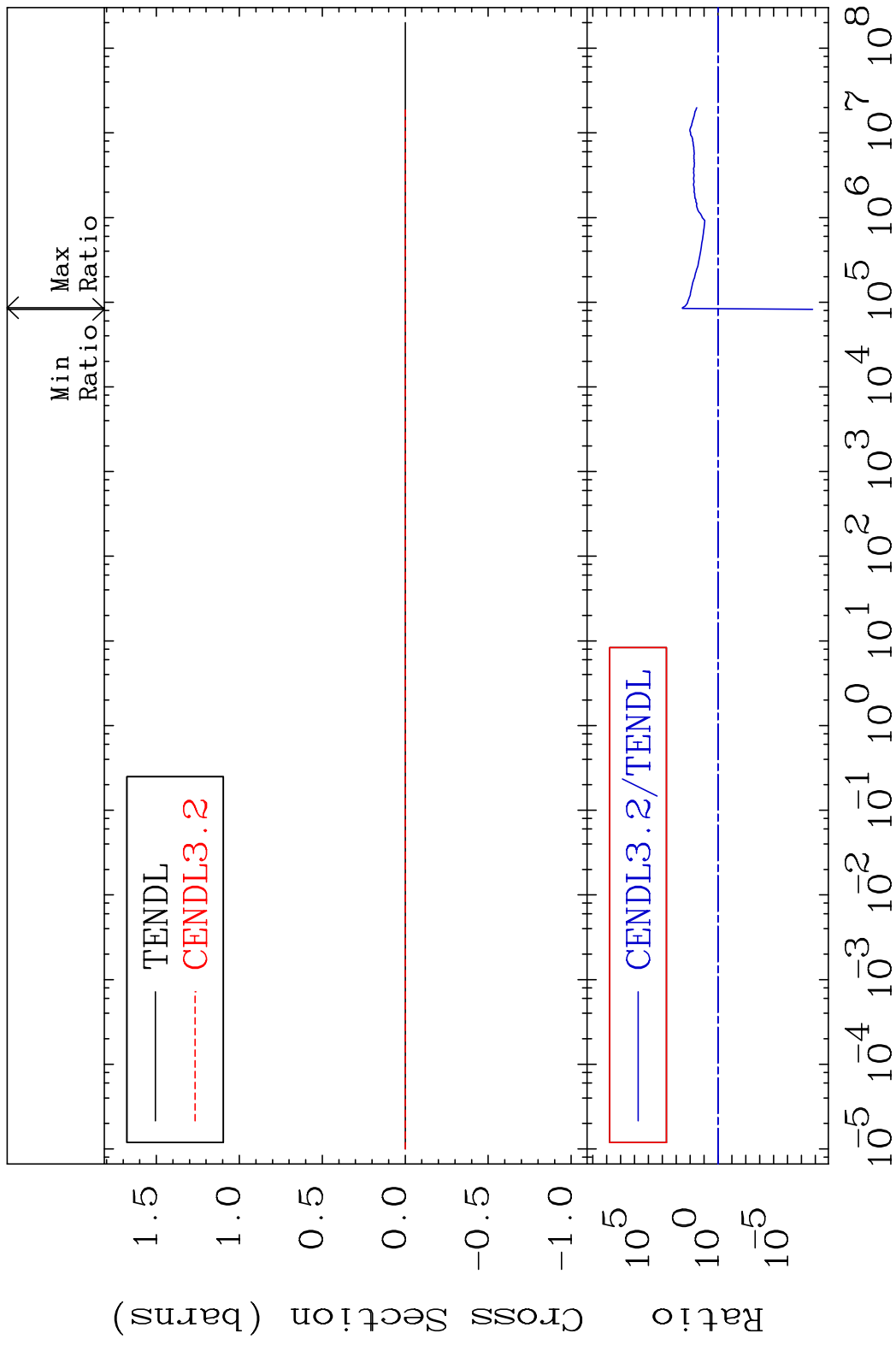
39 Incident Energy (eV) 62-Sm-154

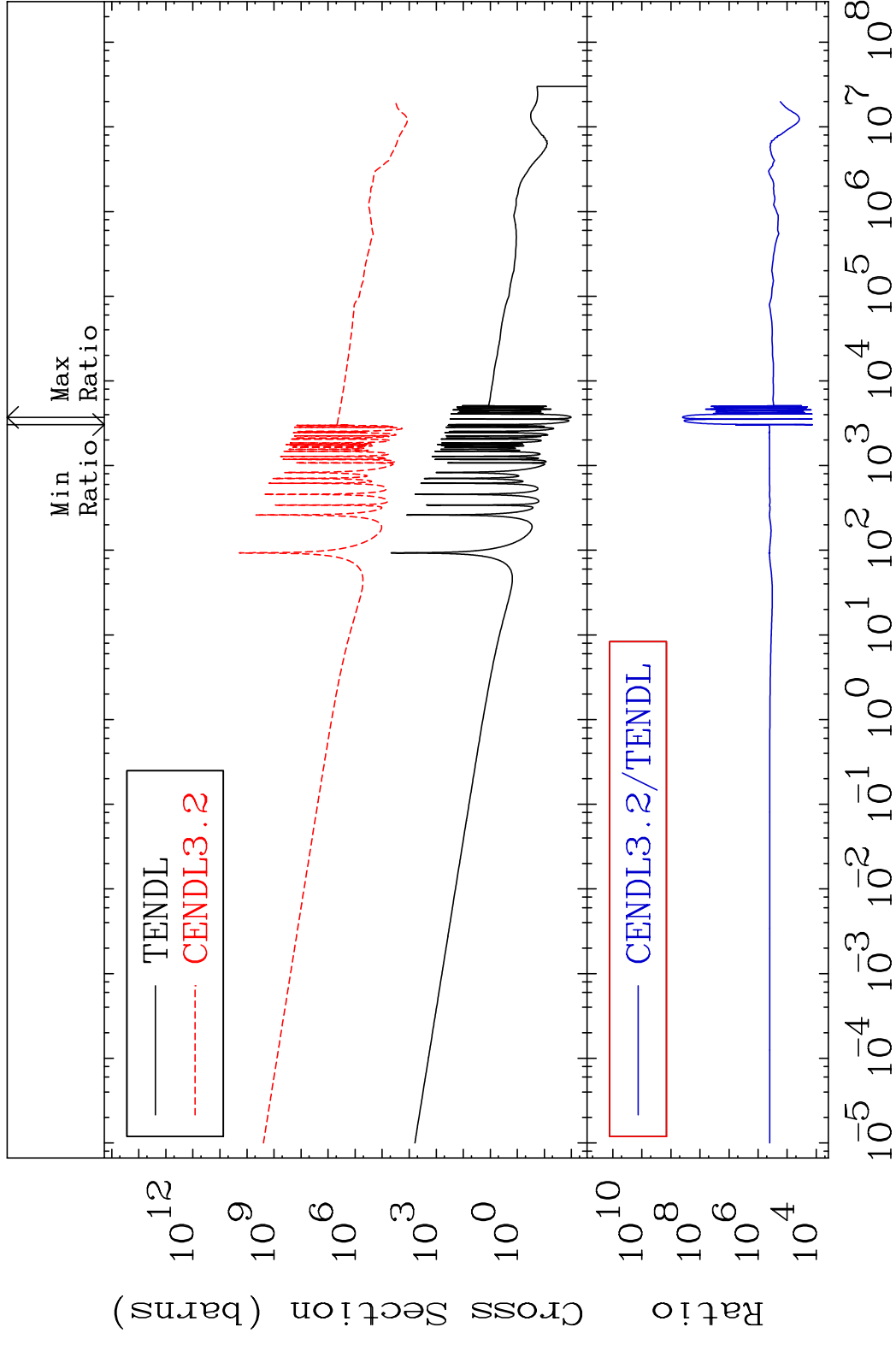
MAT 6255 Kerma inelastic (mt51-91) 62-Sm-154
 Cross Section -100.0 To 9999. %



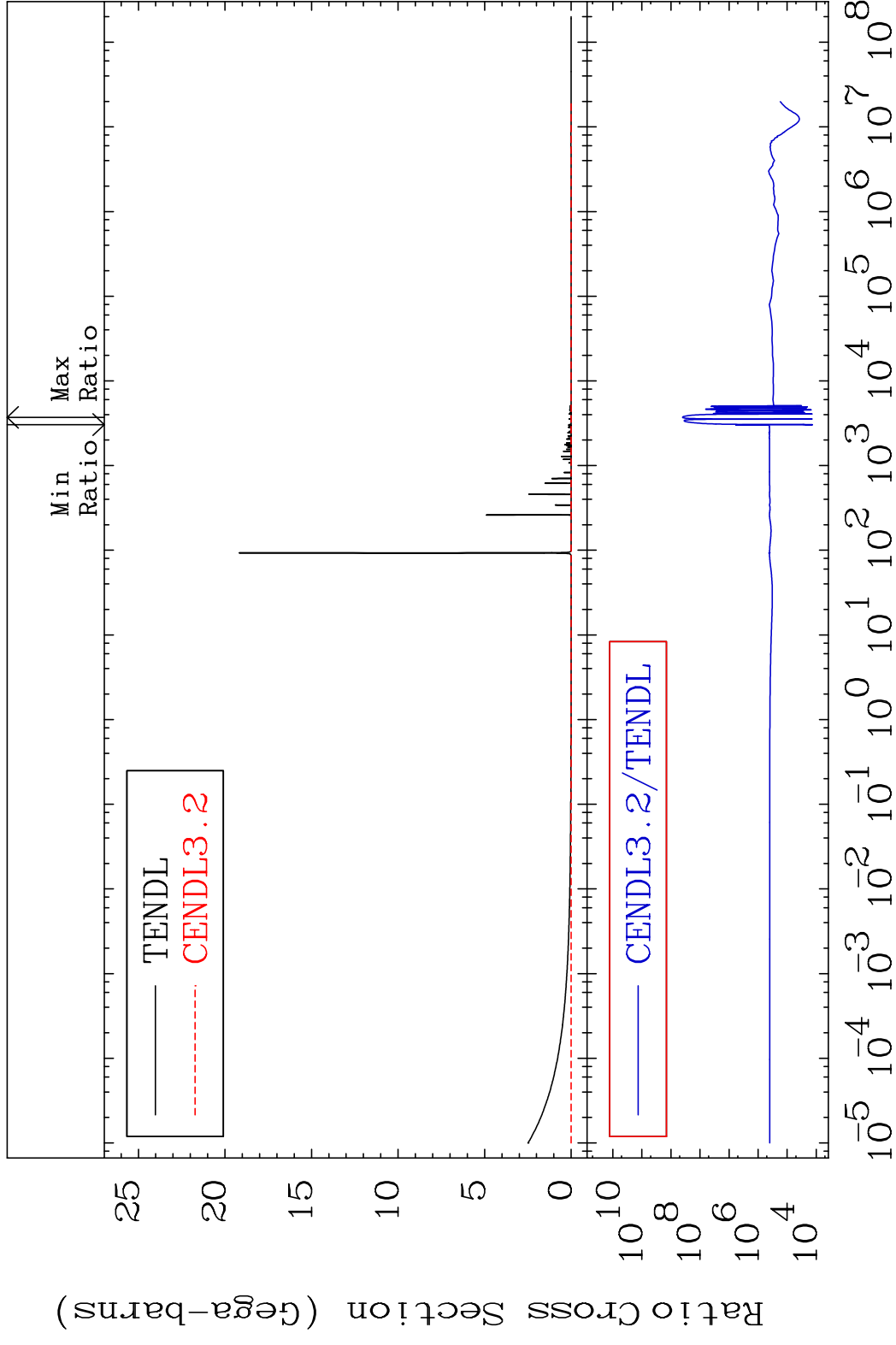
40 Incident Energy (eV) 62-Sm-154

MAT 6255 Kerma fission (mt18 or mt19-20-21-38) ^{62}Sm -154
 Cross Section -100.0 To 9999. %

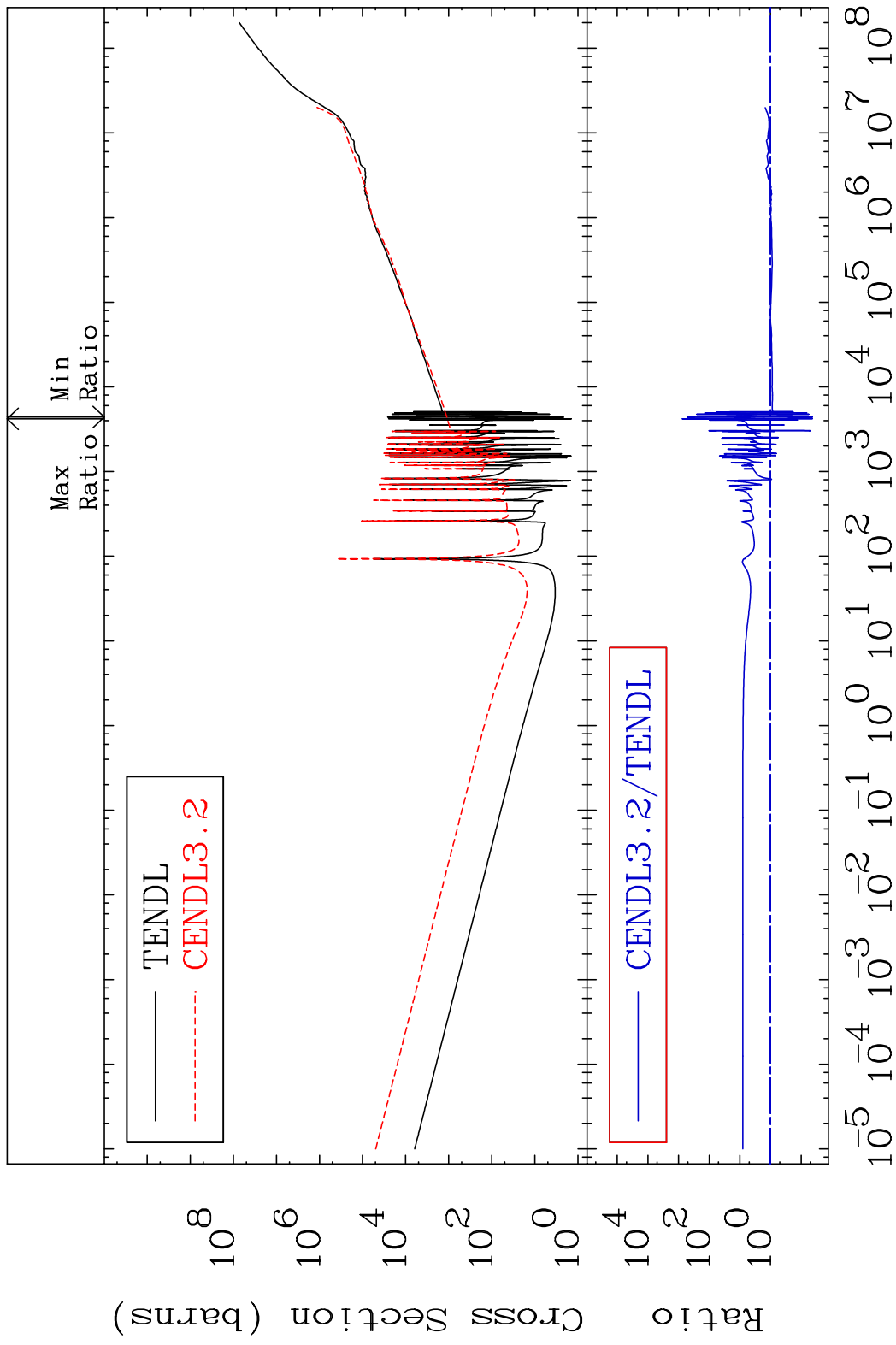




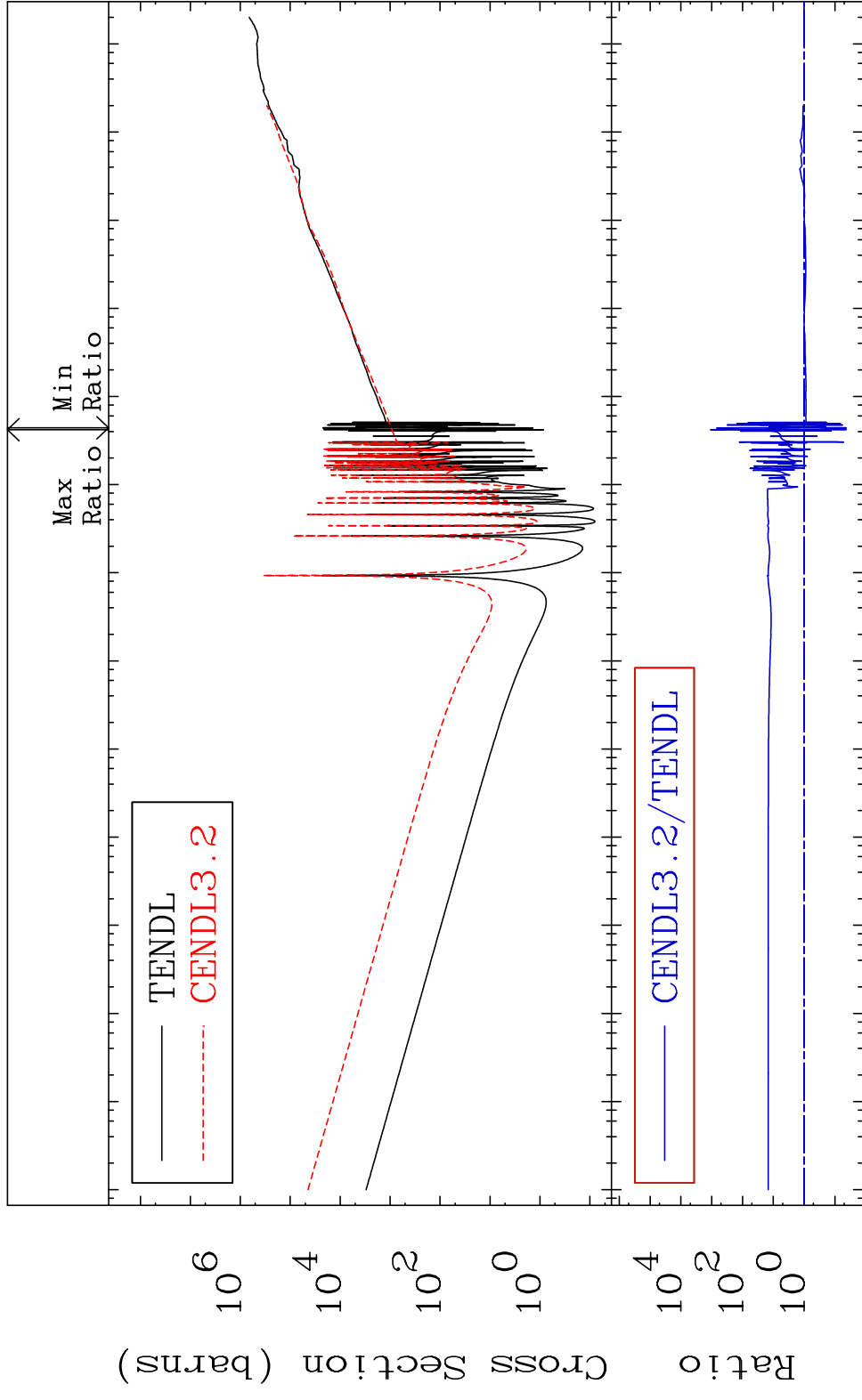
MAT 6255 Total photon (eV-barns) 62-Sm-154
 Cross Section 9999. To 9999. %



MAT 6255 Total kinematic kerma (high limit) 62-Sm-154
 Cross Section -95.75 To 9999. %



MAT 6255 Dpa total (eV-barns) 62-Sm-154
 Cross Section -95.73 To 9999. %



10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸
 Incident Energy (eV)

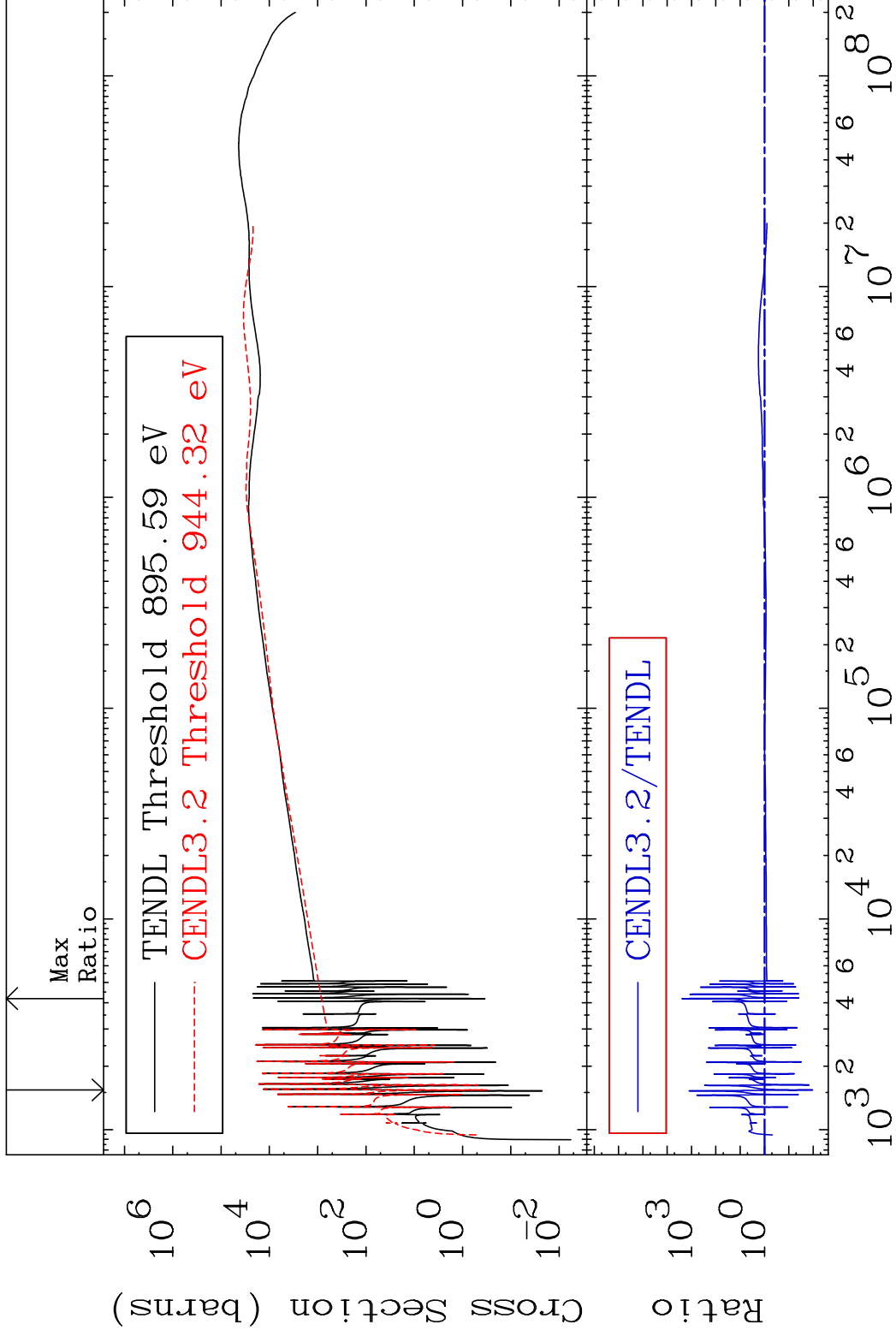
45 62-Sm-154

MAT 6255

Dpa elastic (mt2)

62-Sm-154

Cross Section -98.93 To 9999. %

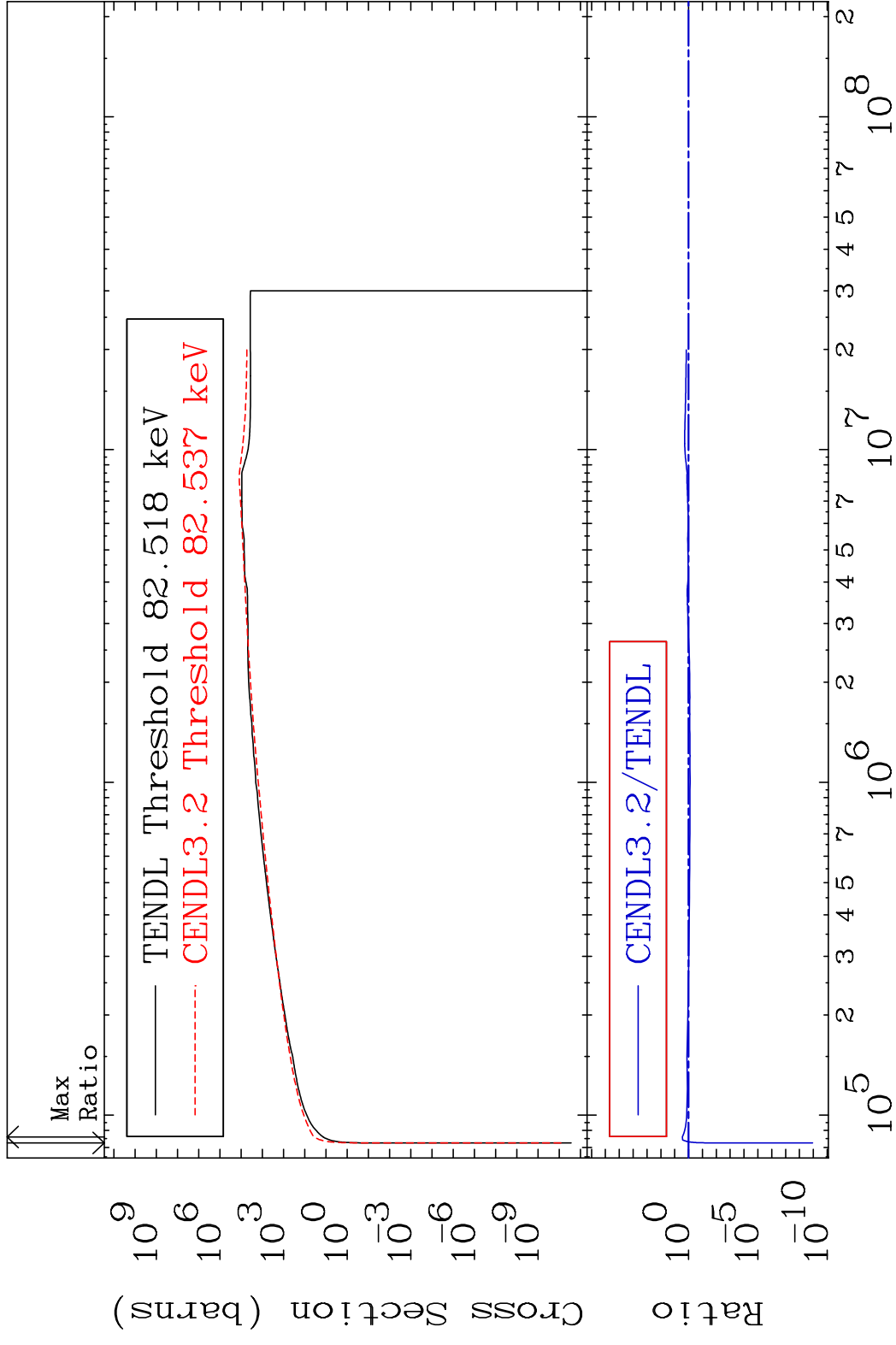


46

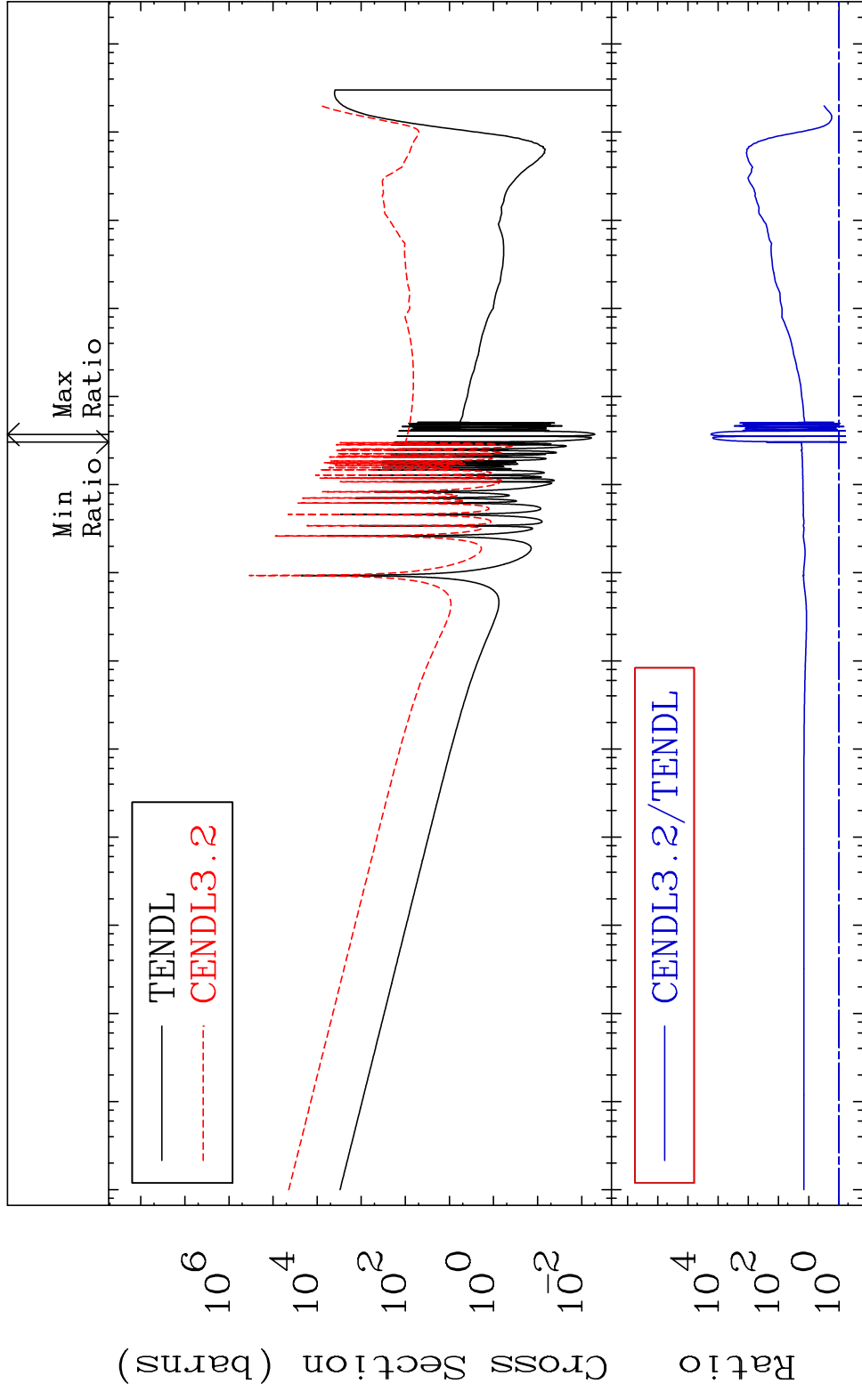
Incident Energy (eV)

62-Sm-154

MAT 6255 Dpa inelastic (mt51-91) 62-Sm-154
 Cross Section -100.0 To 181.0 %



MAT 6255 Dpa disappearance (mt102 -120) 62-Sm-154
 Cross Section -43.20 To 9999. %

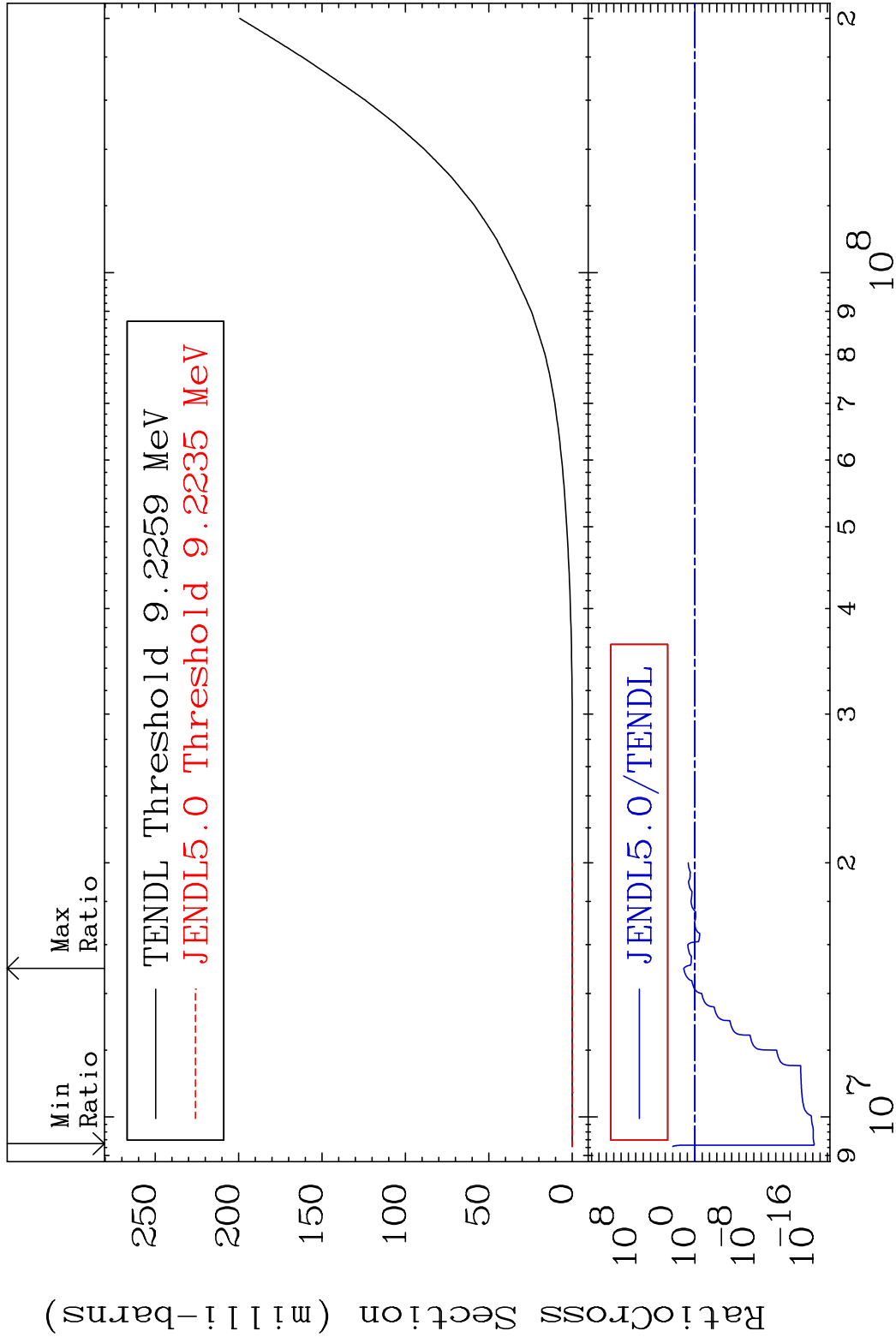


MAT 6255

He-3 Production

62-Sm-154

Cross Section -100.0 To 3121. %



49

Incident Energy (eV)

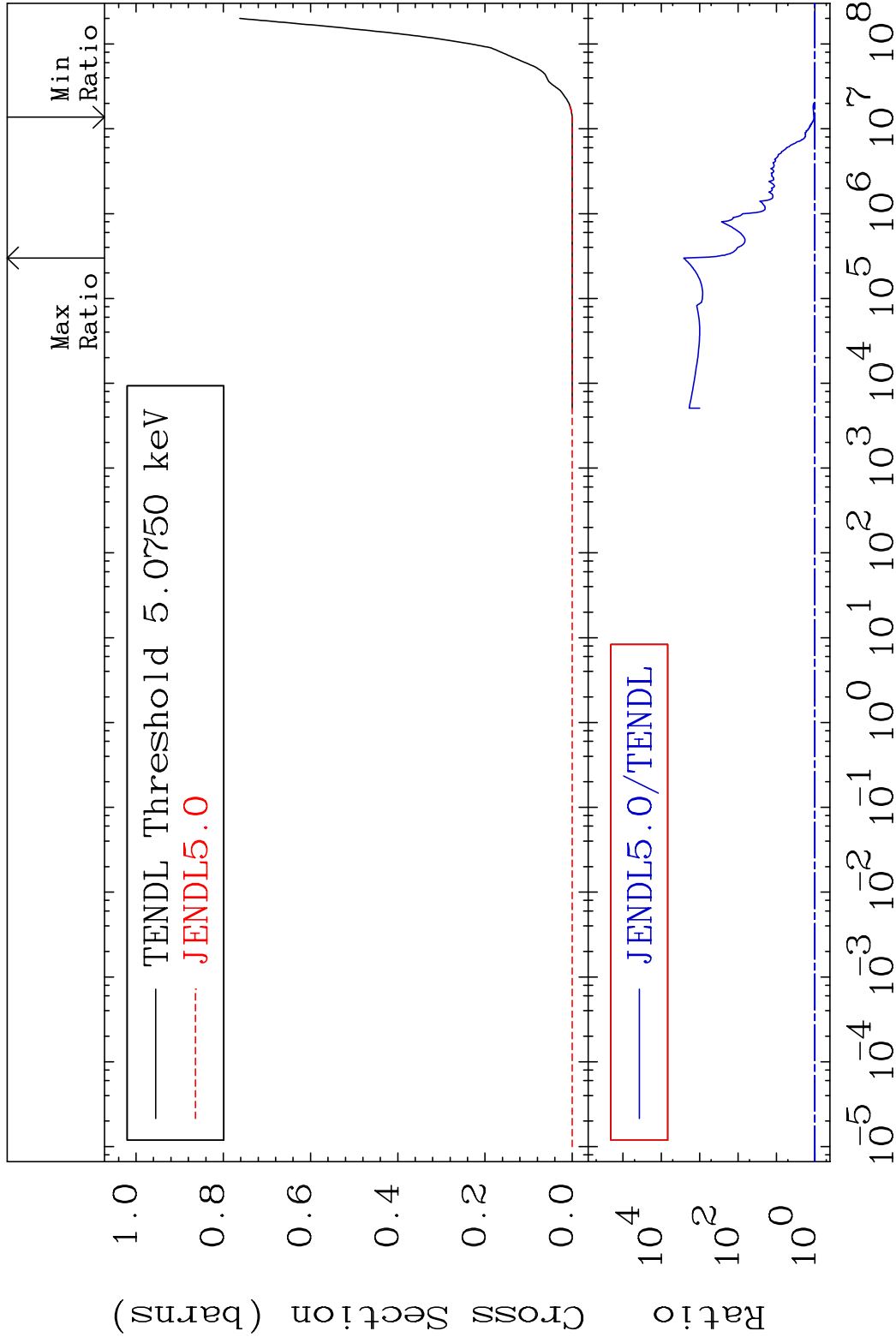
62-Sm-154

MAT 6255

He-4 Production

62-Sm-154

Cross Section 3.803 To 9999. %

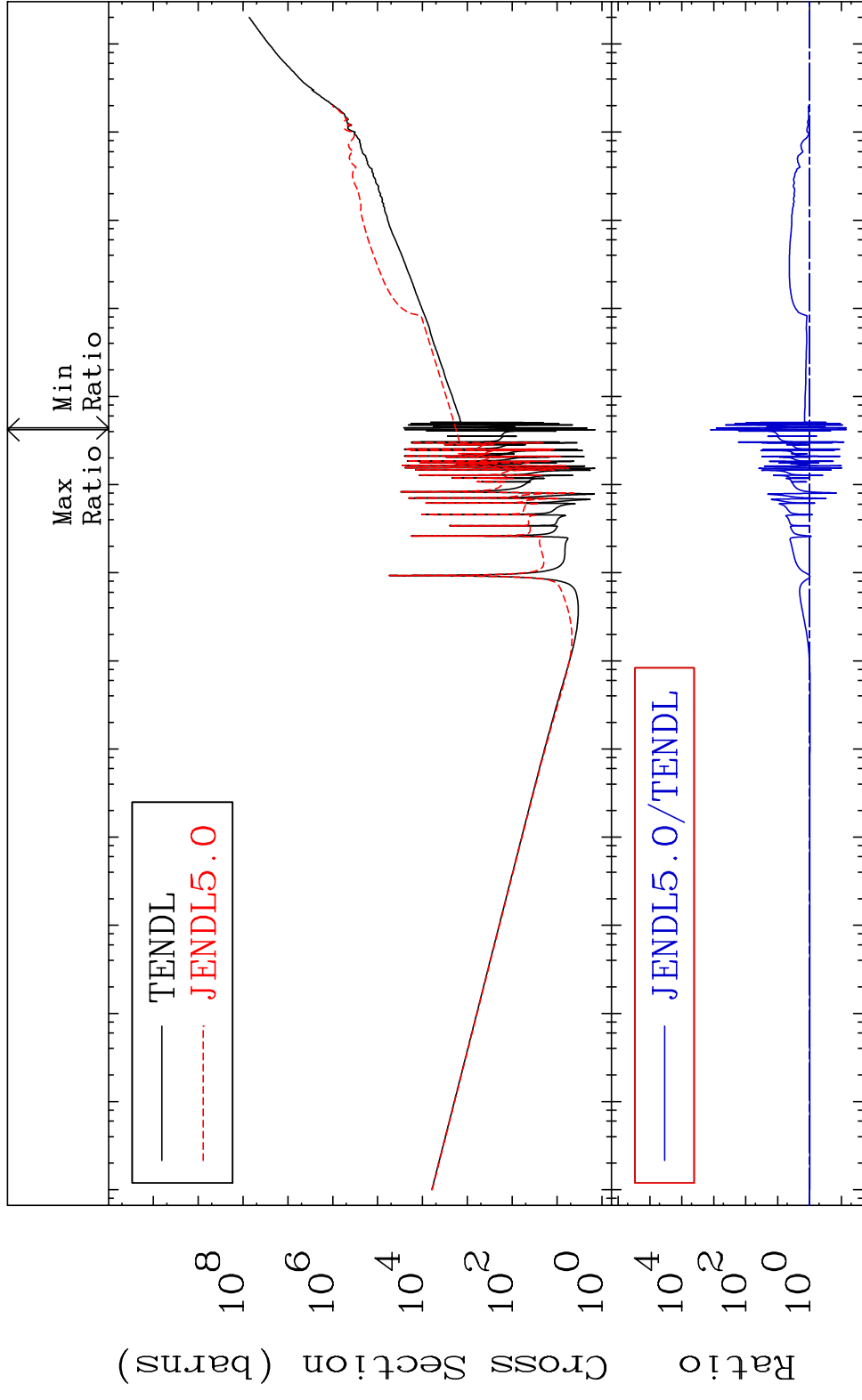


50

Incident Energy (eV)

62-Sm-154

MAT 6255 Kerma total (eV-barns) 62-Sm-154
 Cross Section -92.96 To 9999. %

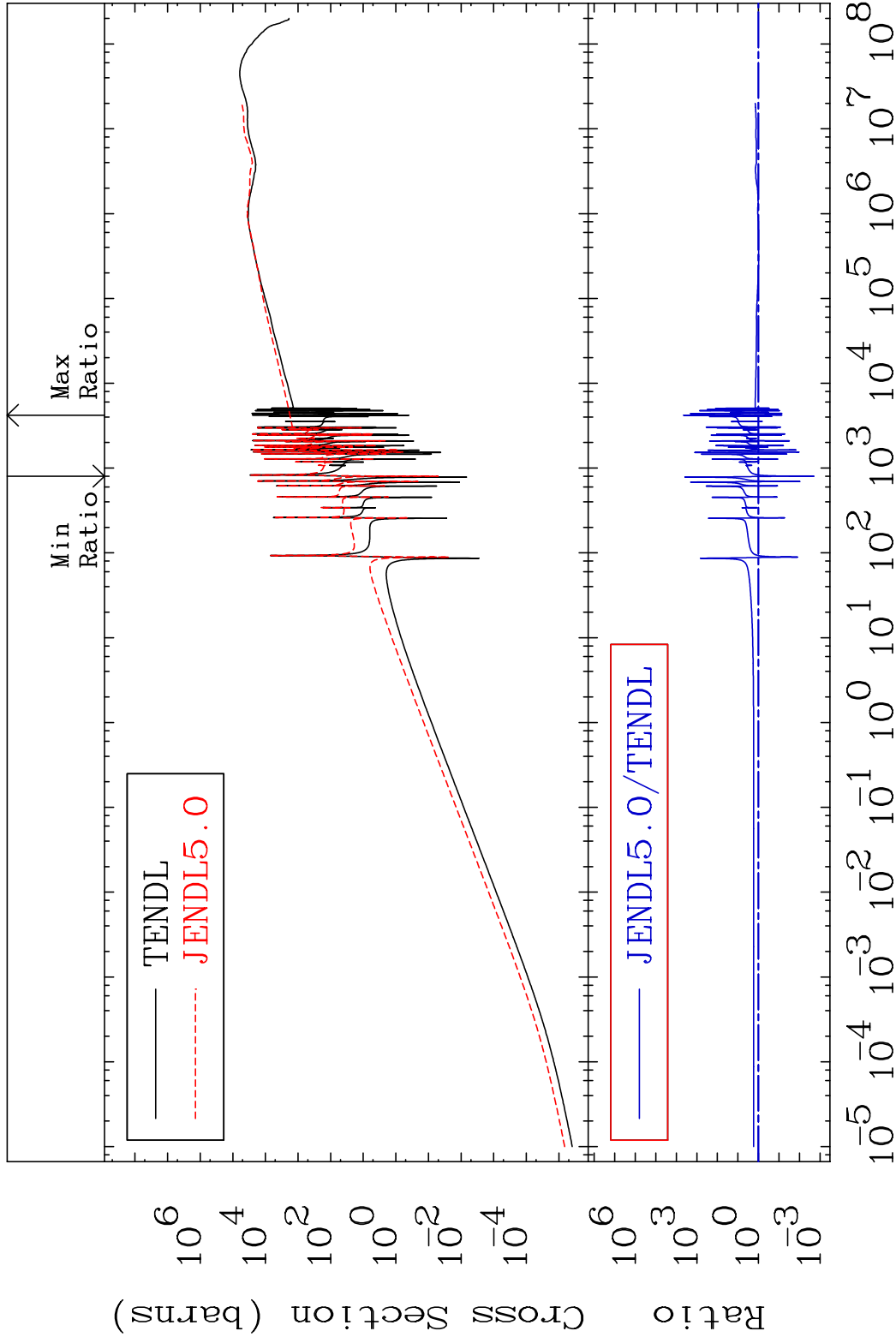


MAT 6255

Kerma elastic

62-Sm-154

Cross Section -99.81 To 9999. %

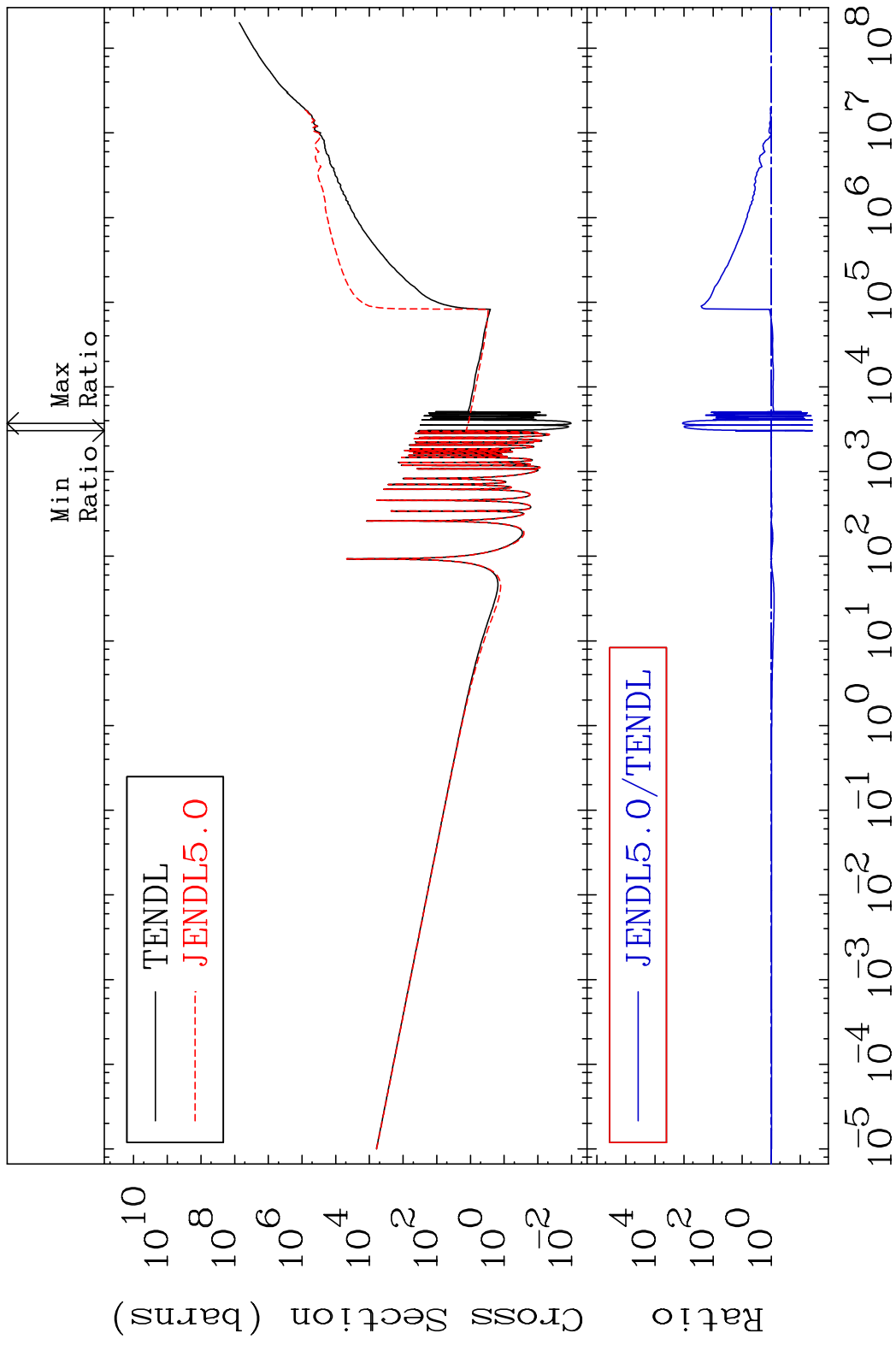


52

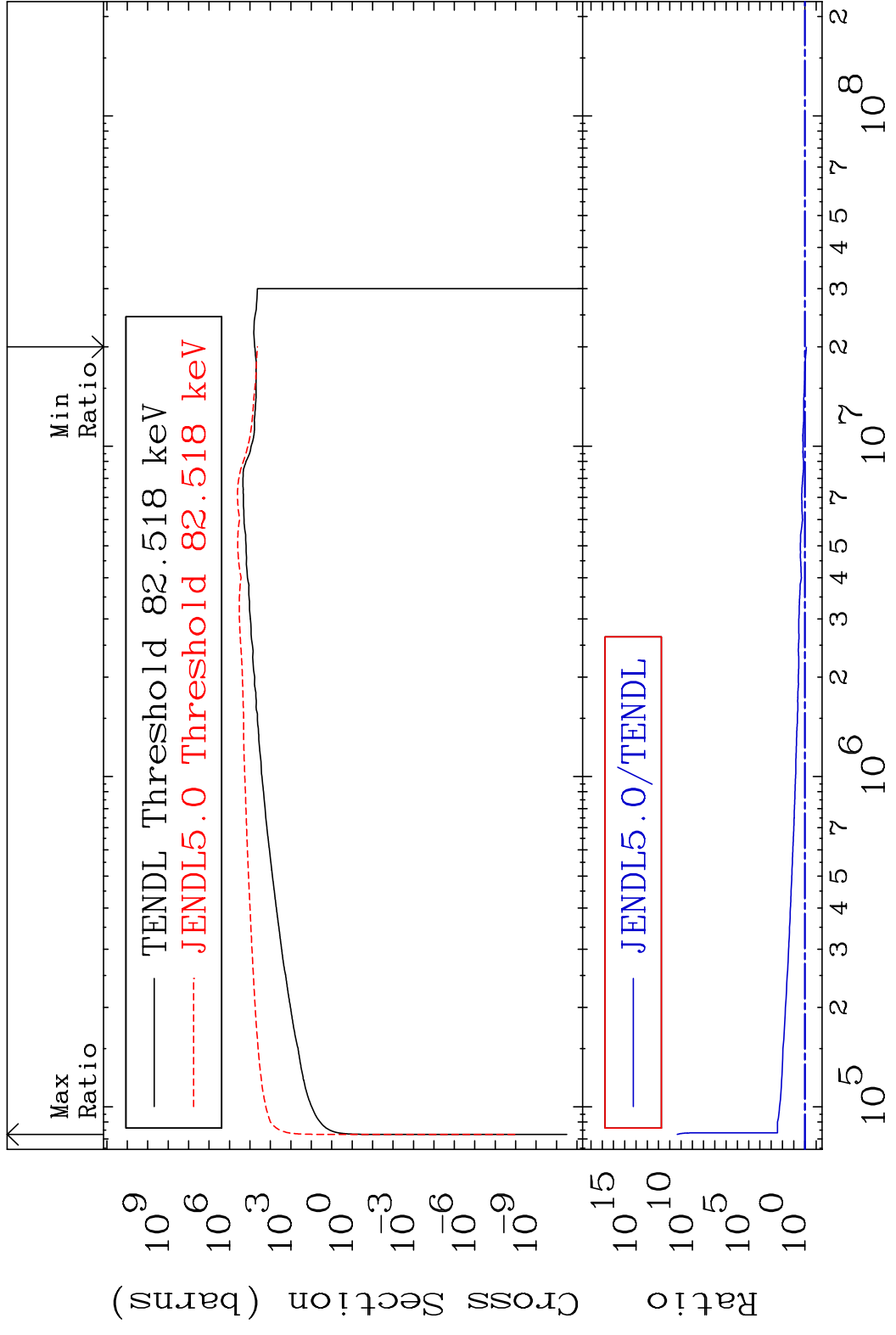
Incident Energy (eV)

62-Sm-154

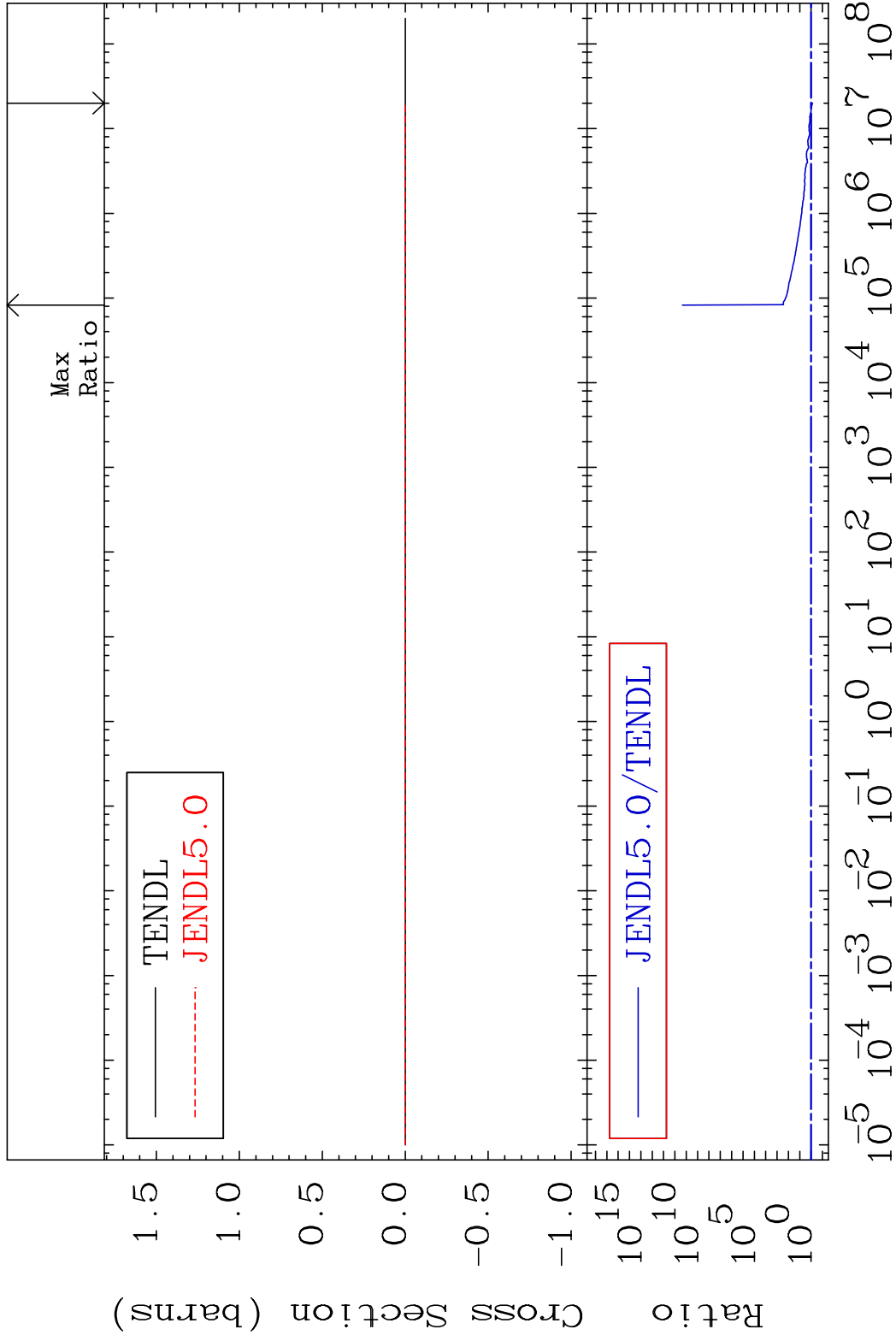
MAT 6255 Kerma non-elastic (all but mt2) 62-Sm-154
 Cross Section -96.19 To 9999. %



MAT 6255 Kerma inelastic (mt51-91) 62-Sm-154
 Cross Section -25.35 To 9999. %



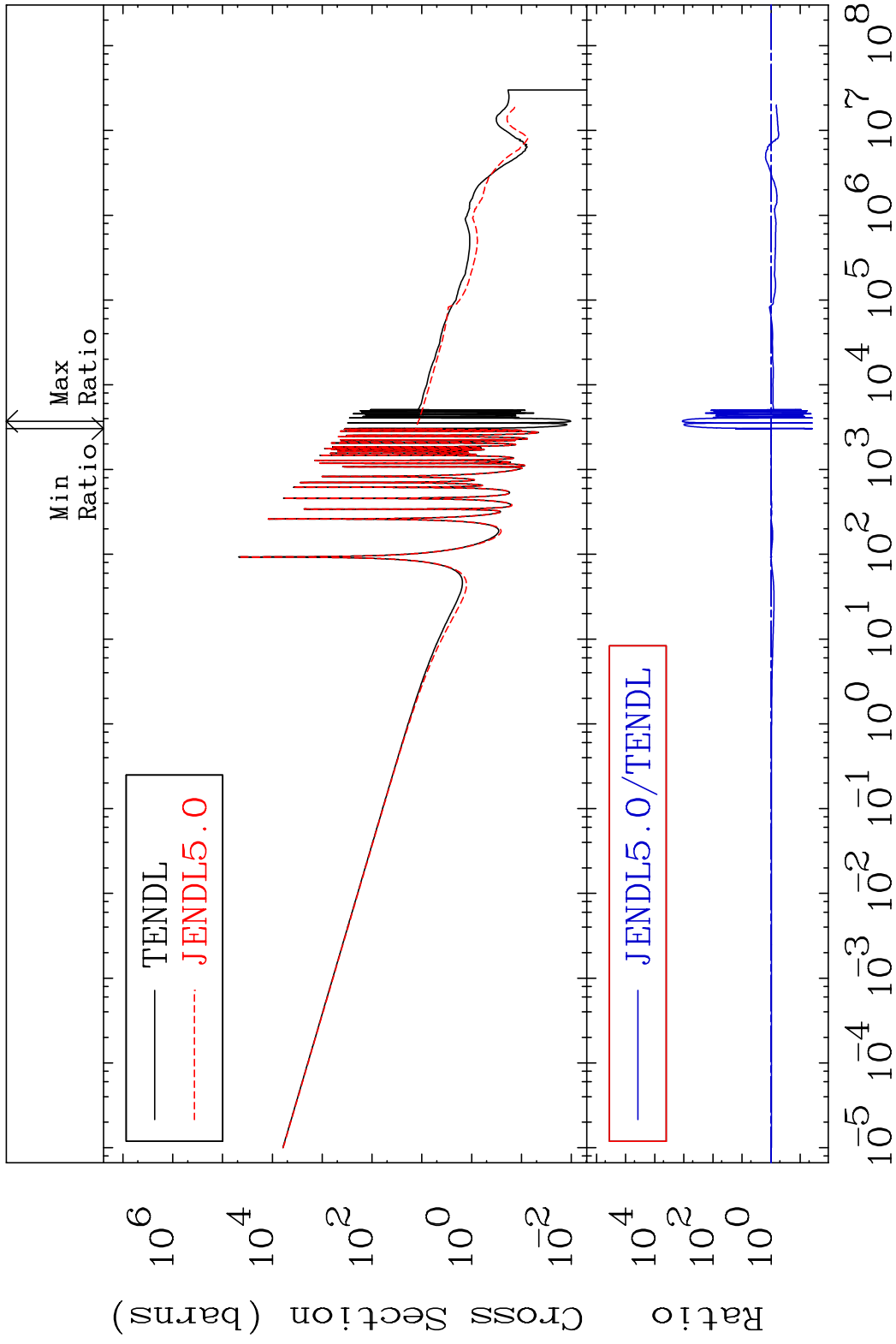
MAT 6255 Kerma fission (mt18 or mt19-20-21-38) ^{62}Sm -154
 Cross Section -25.35 To 9999. %



MAT 6255

Kerma capture (mt102) 62-Sm-154

Cross Section -96.19 To 9999. %



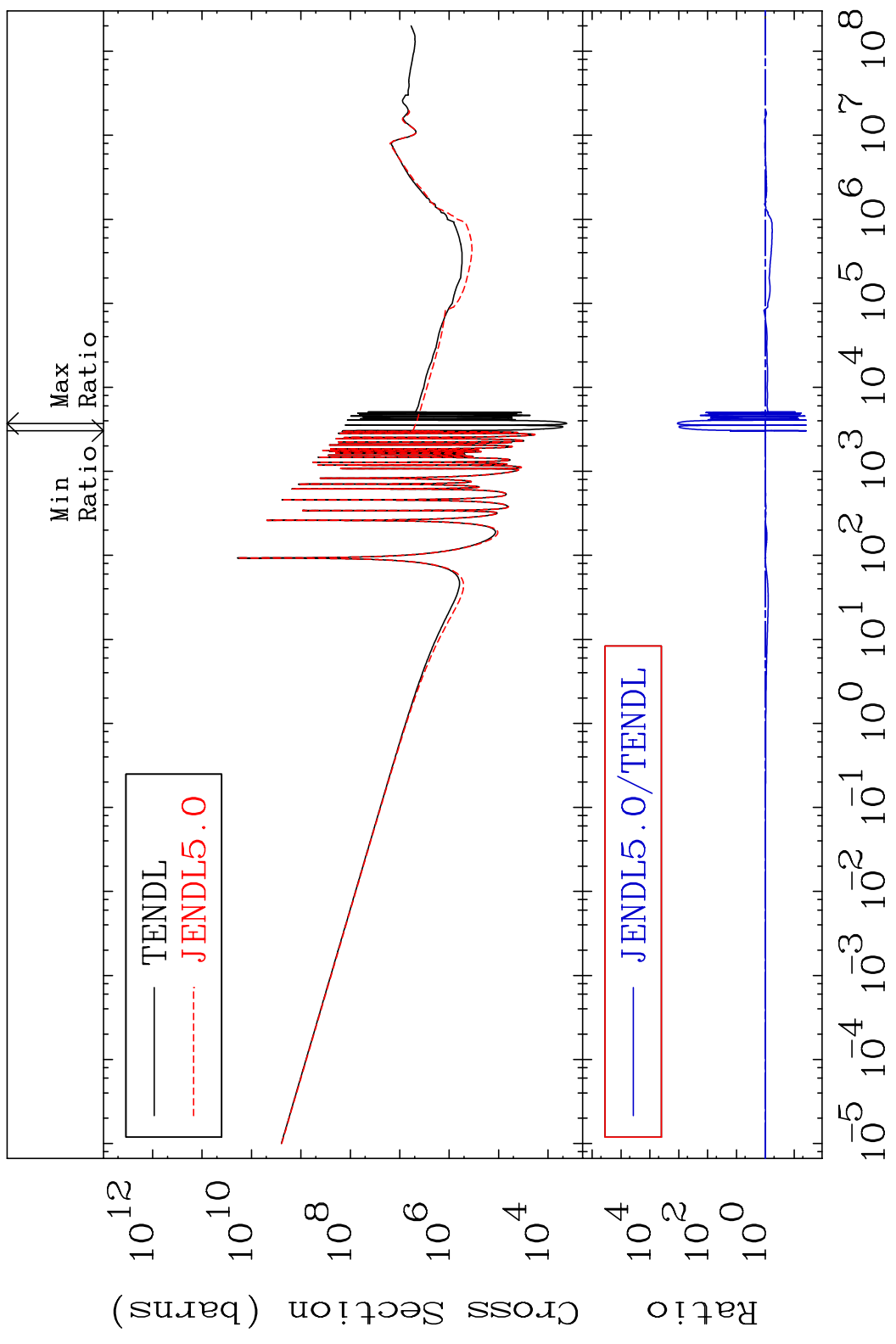
56

Incident Energy (eV)

62-Sm-154

MAT 6255

Total photon (eV-barns) 62-Sm-154
Cross Section -96.22 To 9999. %

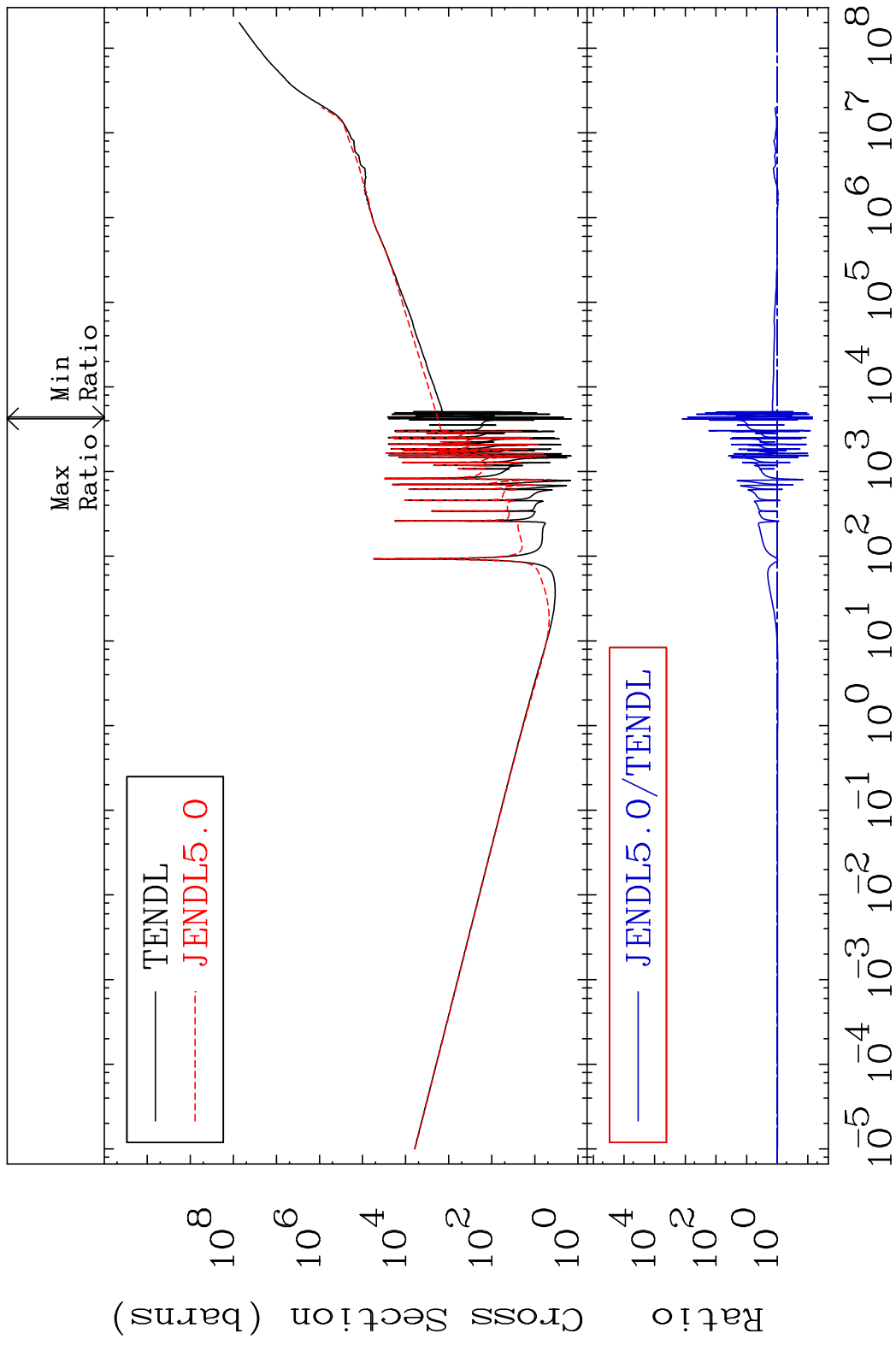


57

Incident Energy (eV)

62-Sm-154

MAT 6255 Total kinematic kerma (high limit) 62-Sm-154
 Cross Section -92.96 To 9999. %

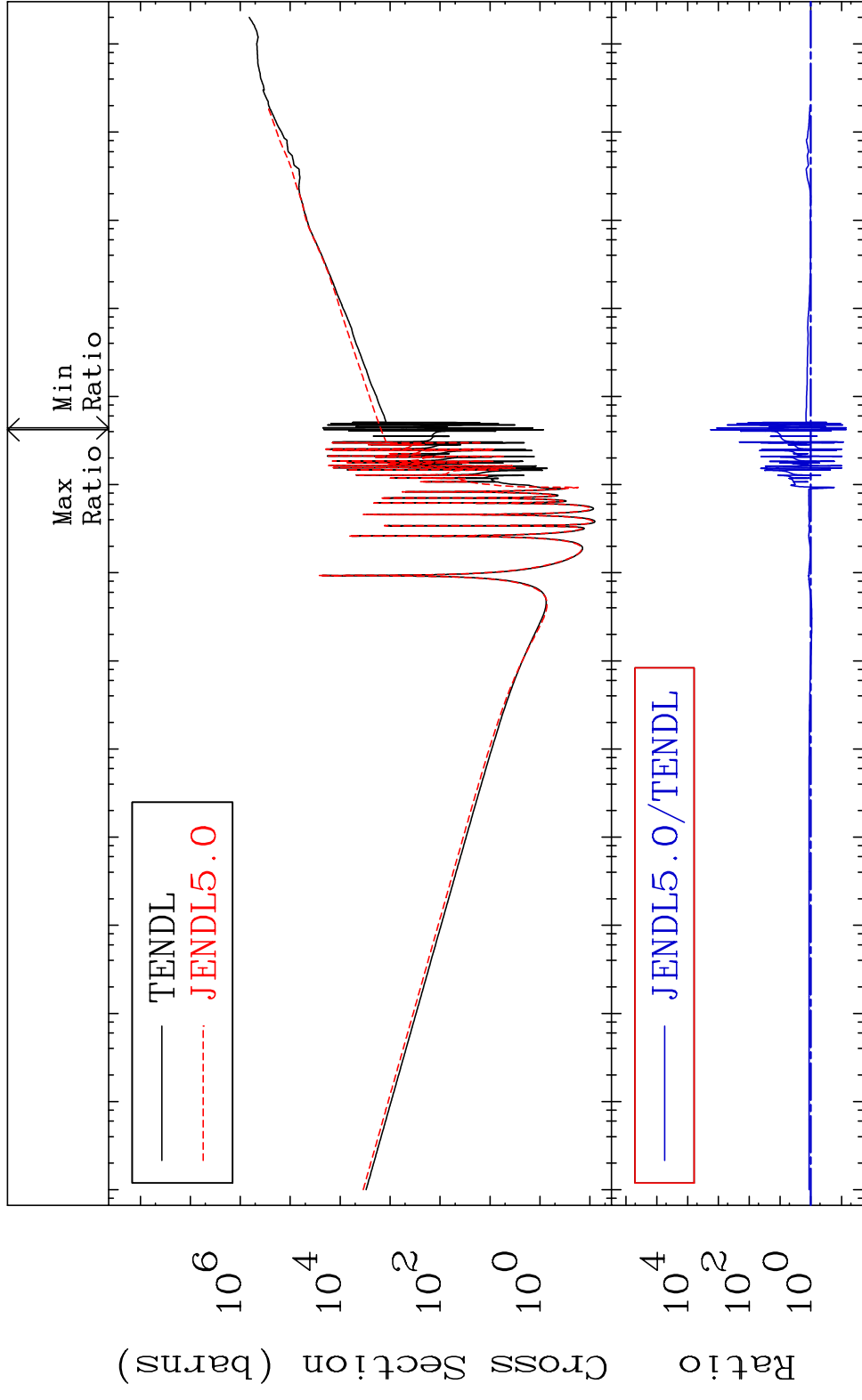


MAT 6255

Dpa total (eV-barns)

62-Sm-154

Cross Section -92.97 To 9999. %

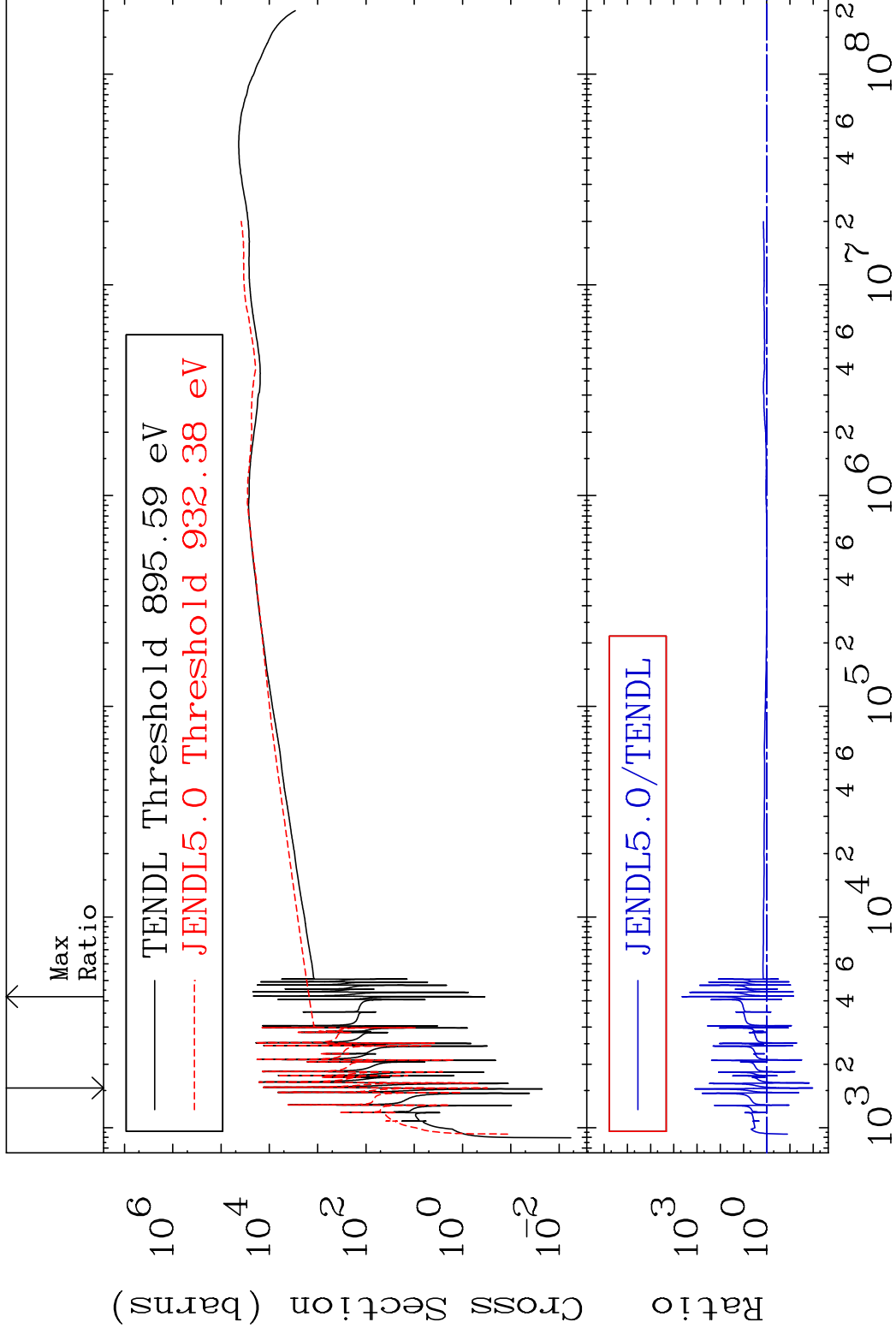


MAT 6255

Dpa elastic (mt2)

62-Sm-154

Cross Section -98.93 To 9999. %

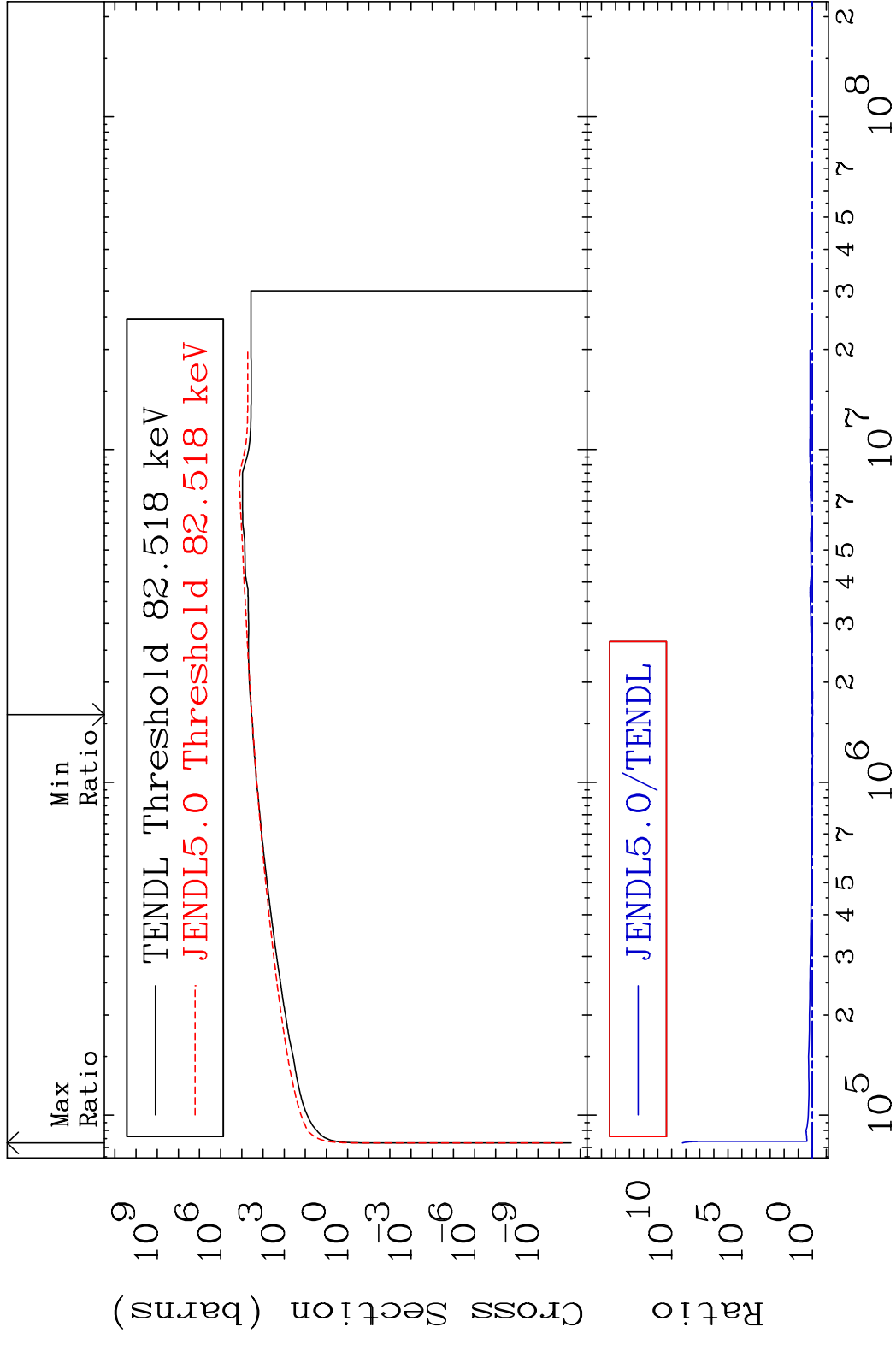


60

Incident Energy (eV)

62-Sm-154

MAT 6255 Dpa inelastic (mt51-91) 62-Sm-154
 Cross Section -4.271 To 9999. %



MAT 6255 Dpa disappearance (mt102 -120) 62-Sm-154
 Cross Section -95.59 To 9999. %

