

Program Complot
(Version 2021-1)

by

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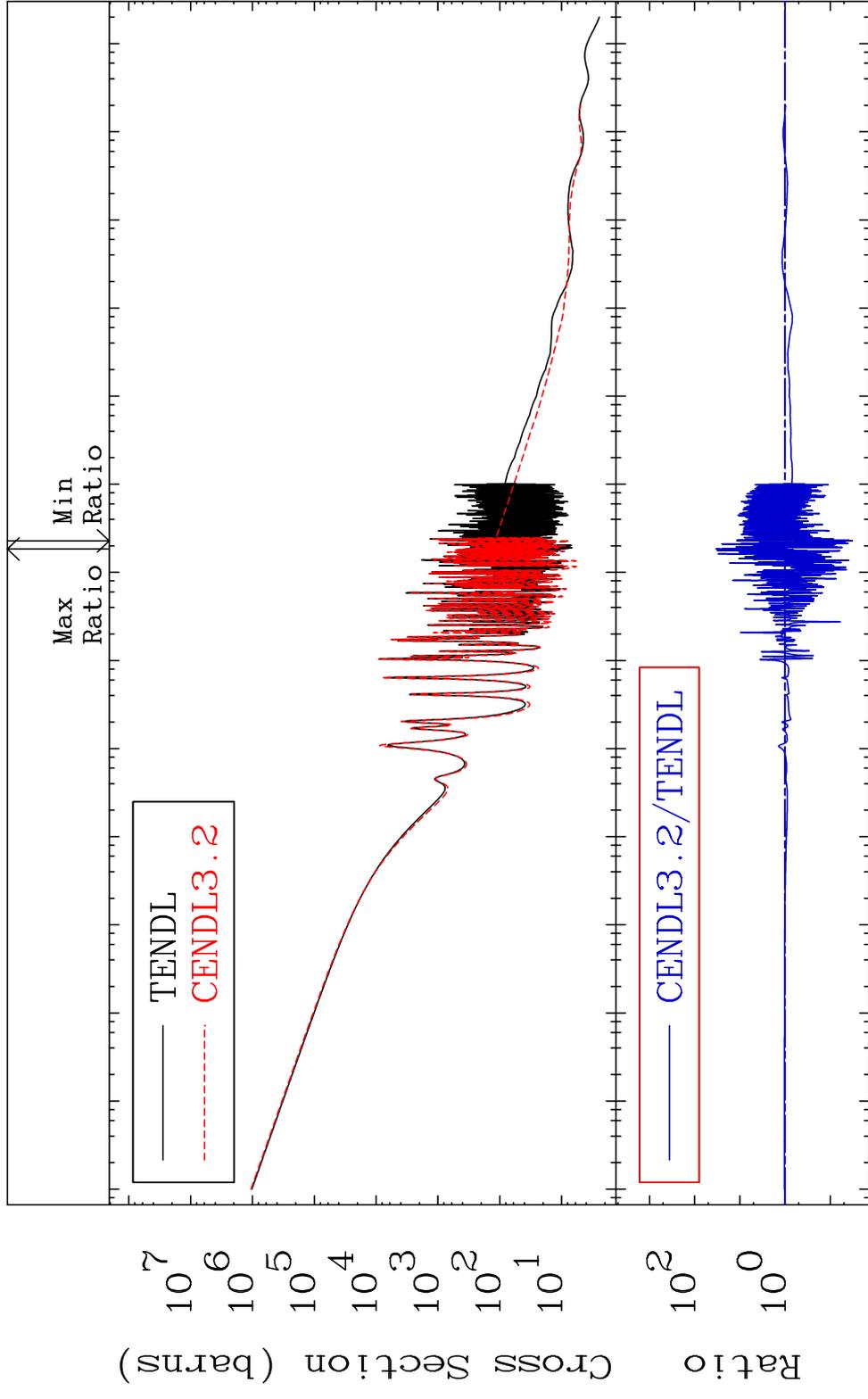
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 6246

Total Cross Section -96.78 To 3301. %
62-Sm-151



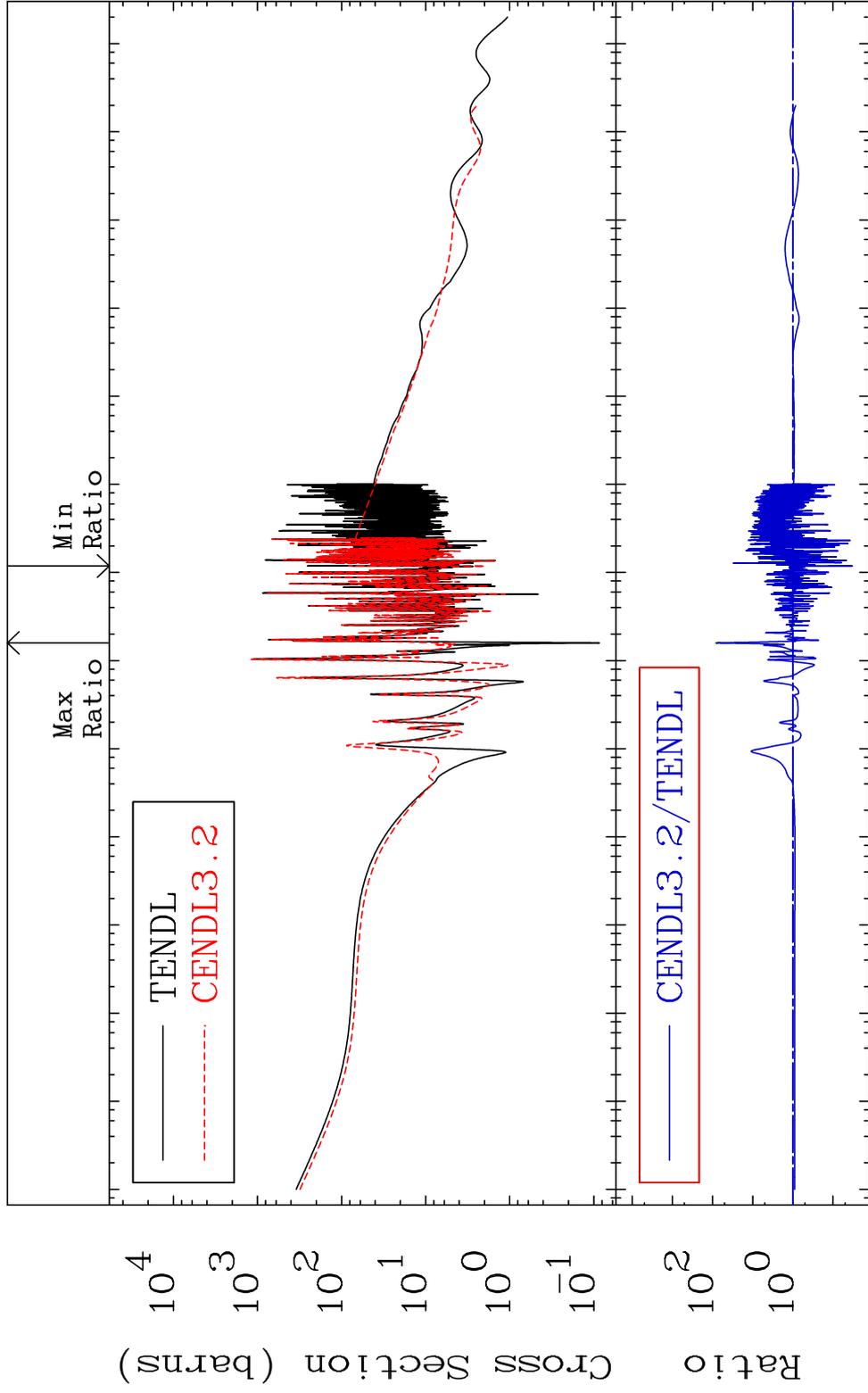
1 Incident Energy (eV) 62-Sm-151

MAT 6246

Elastic

62-Sm-151

Cross Section -96.74 To 8137. %

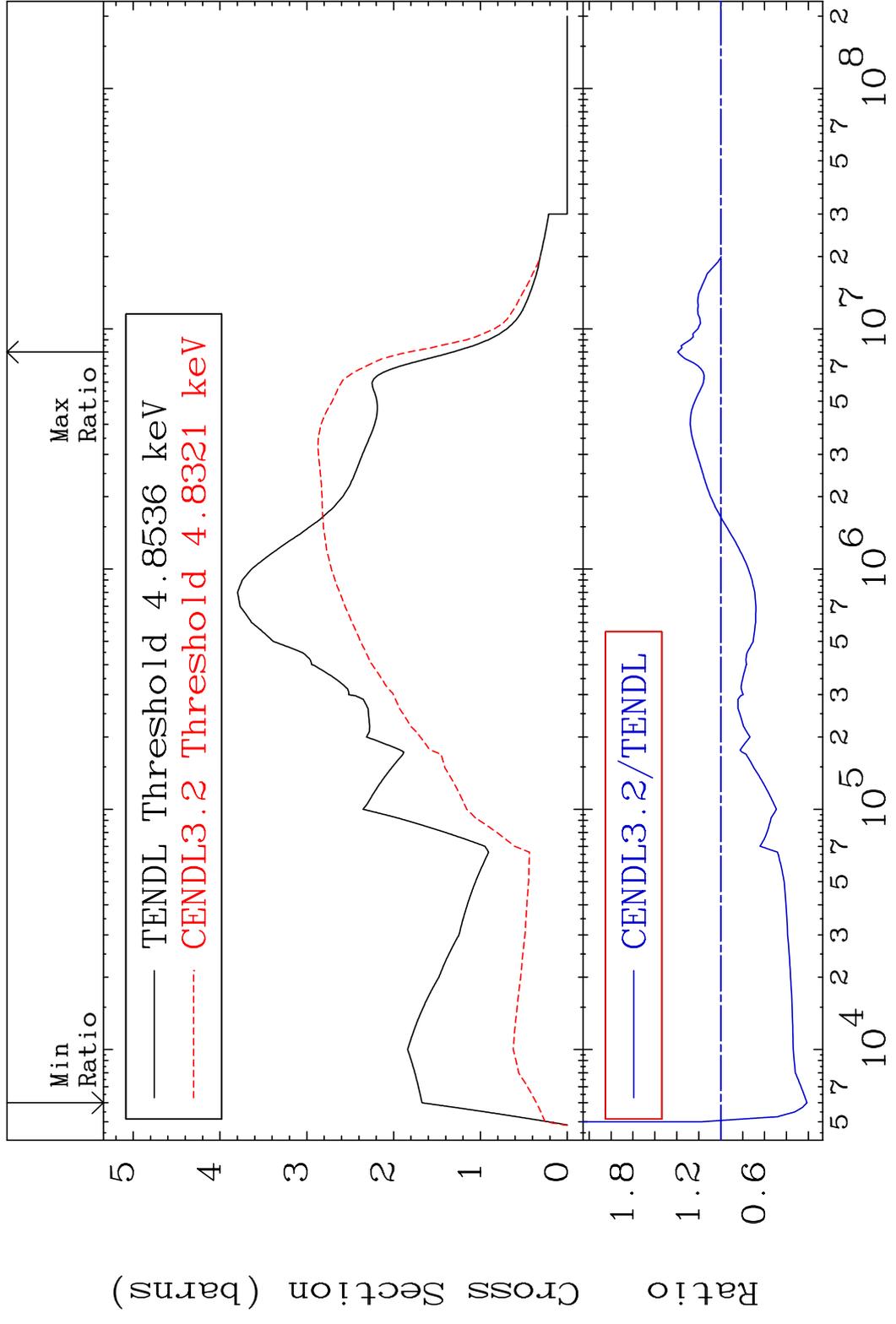


2

Incident Energy (eV)

62-Sm-151

MAT 6246 Inelastic Cross Section -78.73 To 39.23 % 62-Sm-151



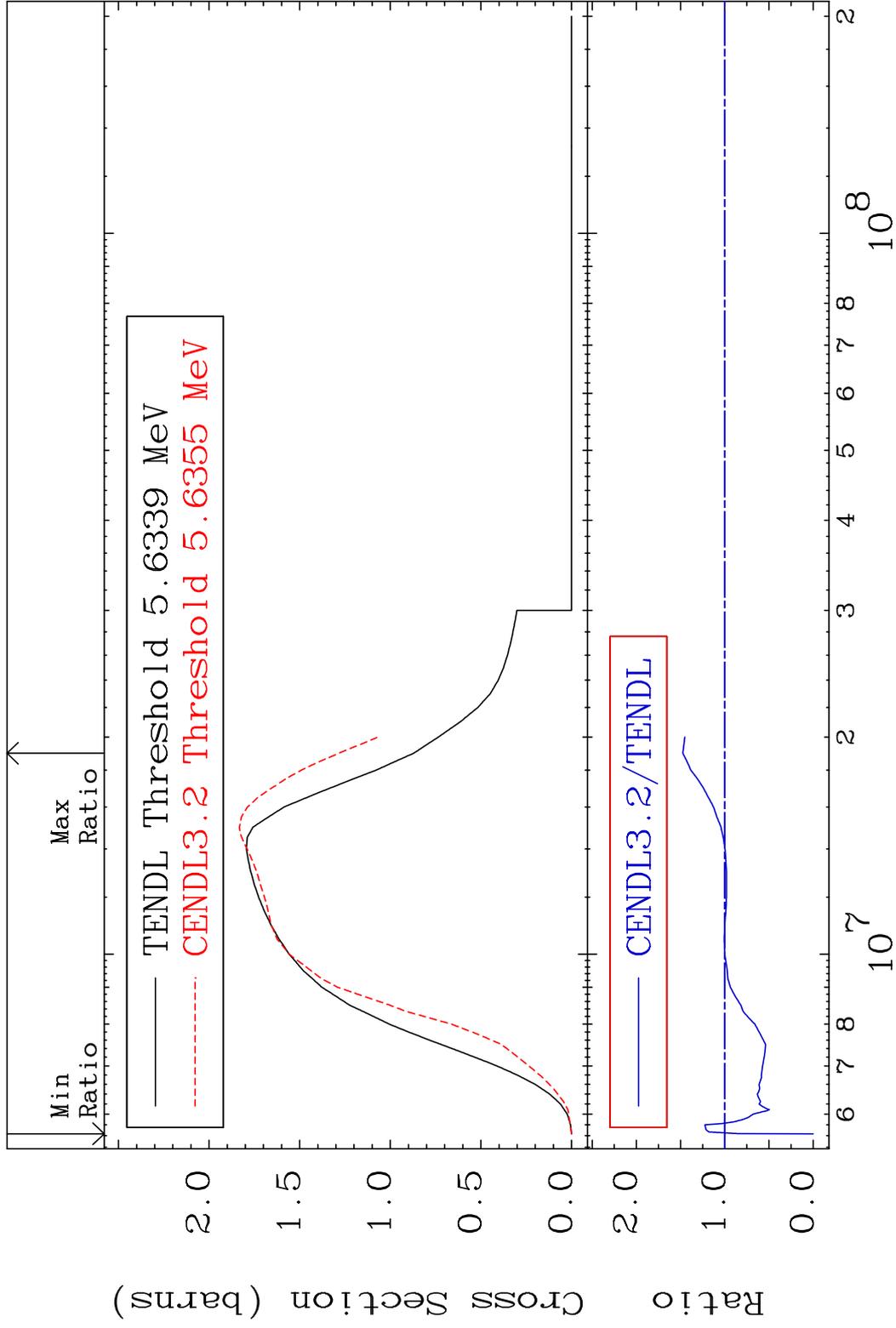
3 Incident Energy (eV) 62-Sm-151

MAT 6246

(n,2n)

62-Sm-151

Cross Section -100.0 To 47.42 %



4

Incident Energy (eV)

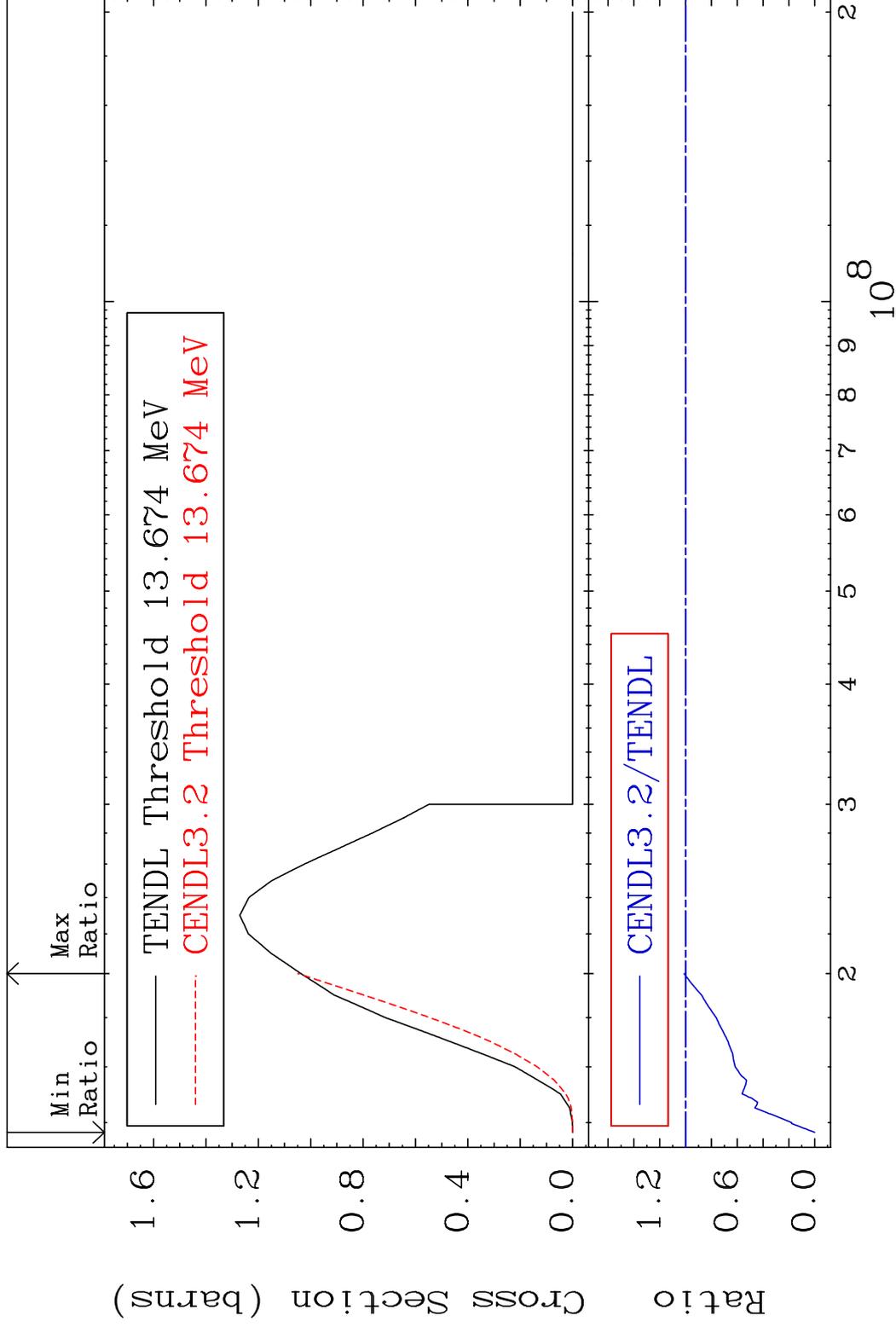
62-Sm-151

MAT 6246

(n,3n)

62-Sm-151

Cross Section -100.0 To 1.107 %



5

Incident Energy (eV)

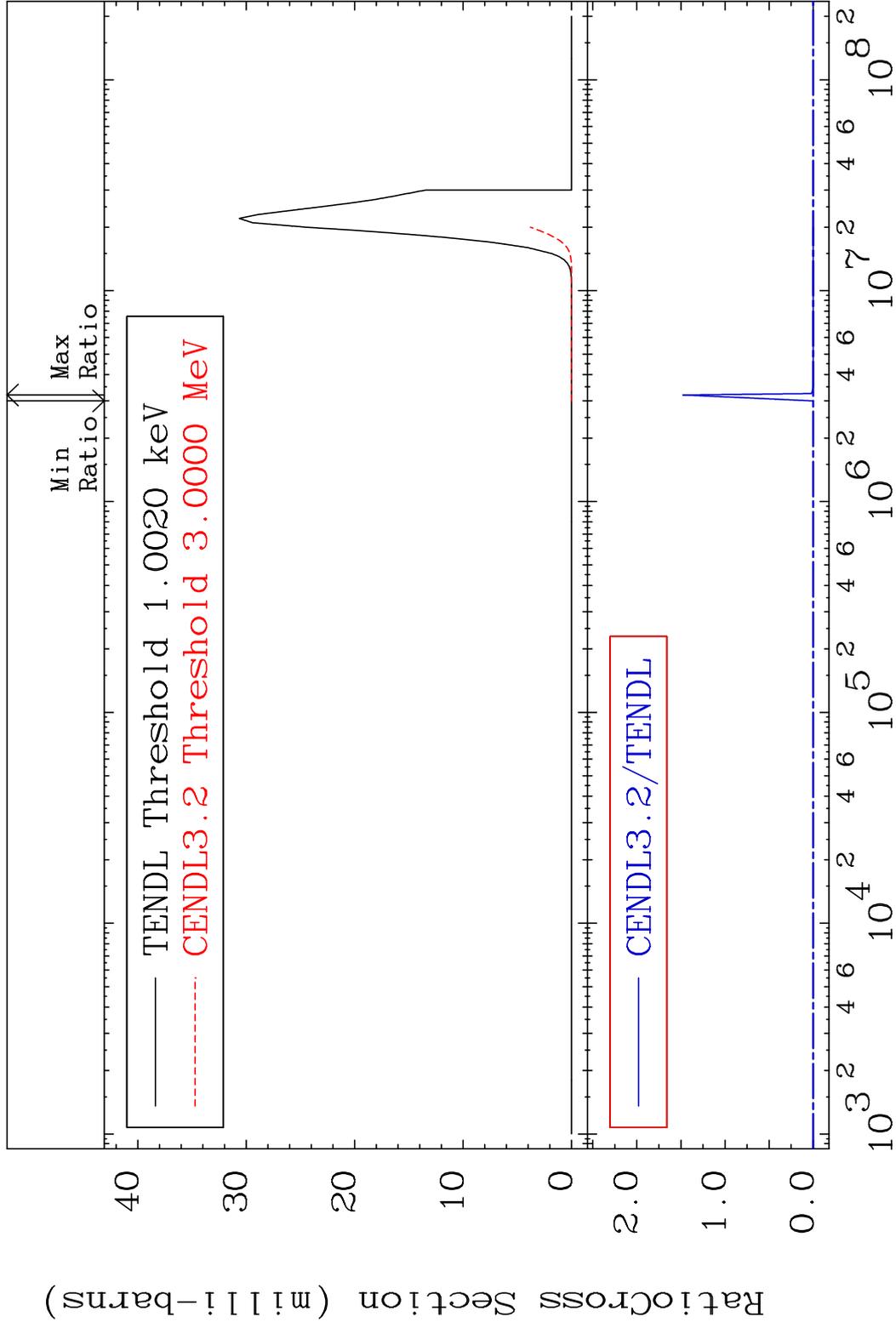
62-Sm-151

MAT 6246

(n, n') α

62-Sm-151

Cross Section -100.0 To 9999. %



6

Incident Energy (eV)

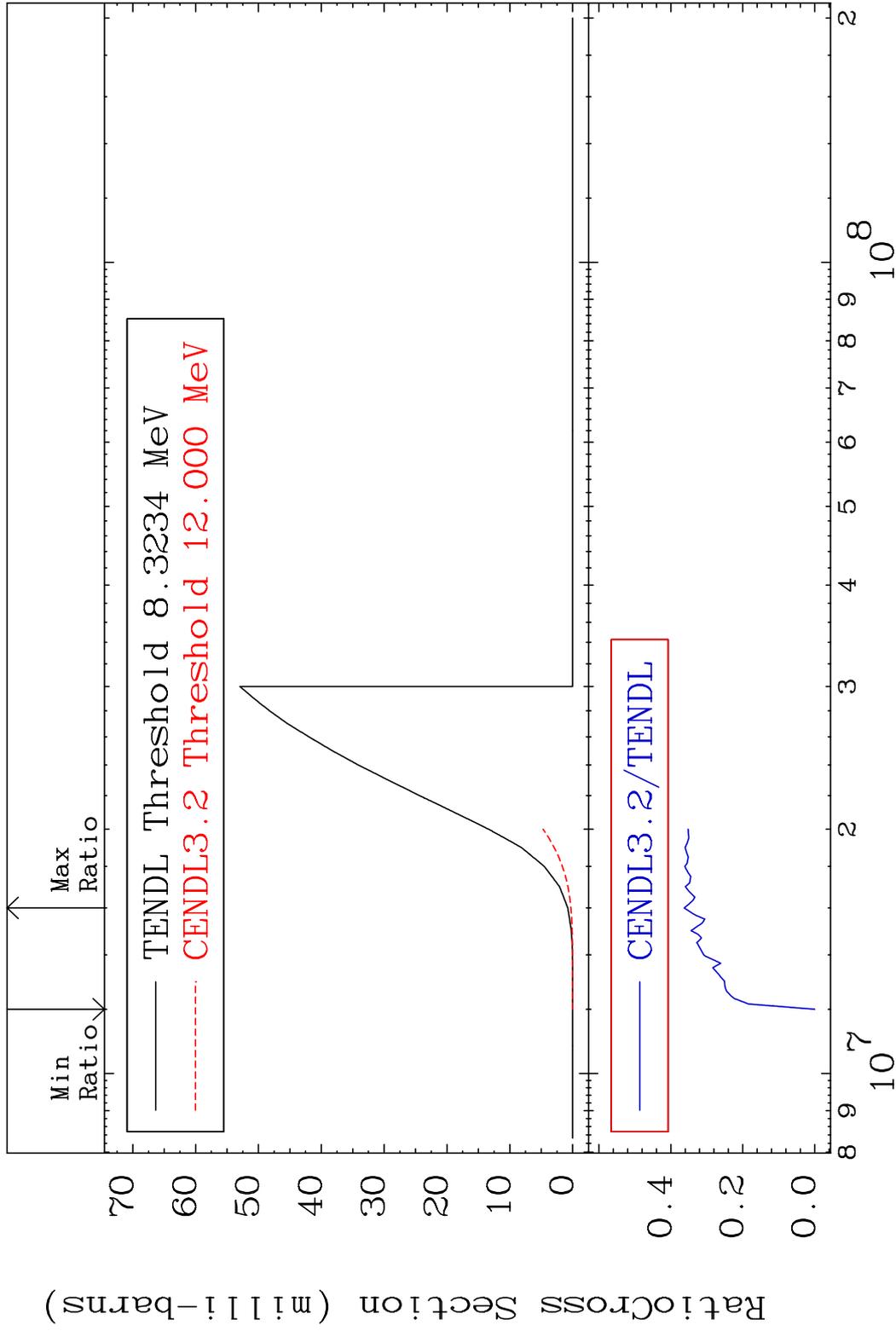
62-Sm-151

MAT 6246

(n, n') p

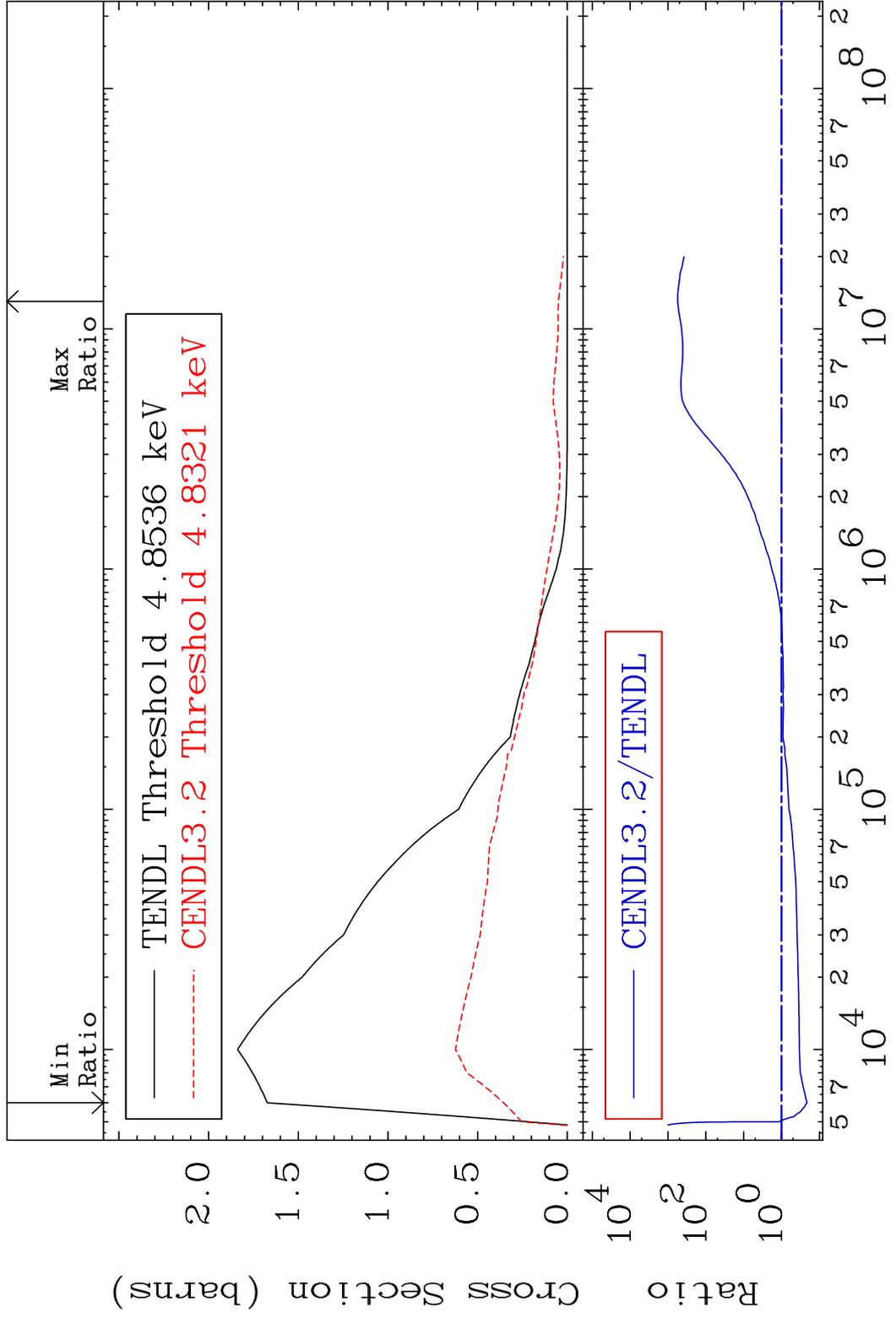
62-Sm-151

Cross Section -100.0 To -63.70%

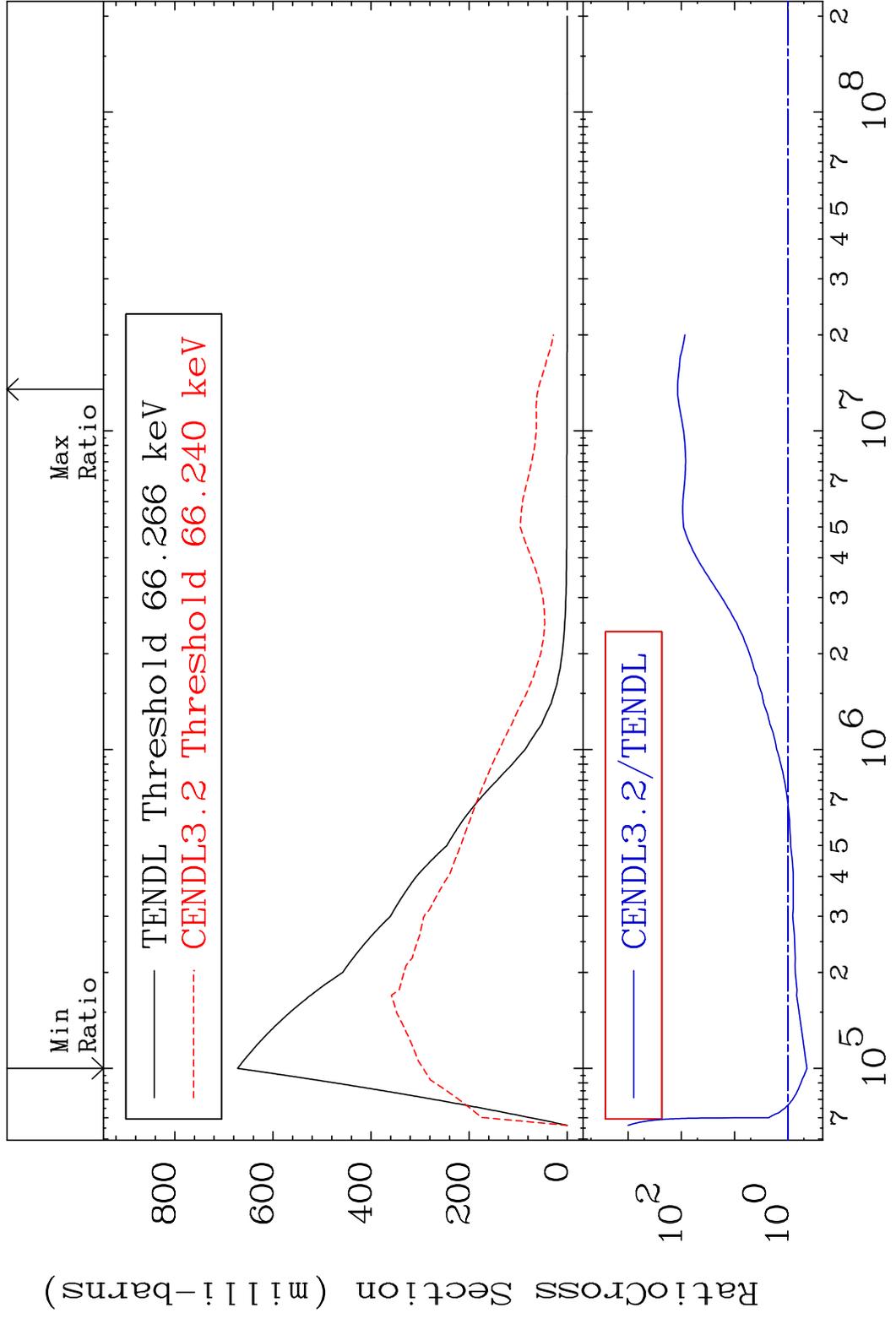


7 Incident Energy (eV) 62-Sm-151

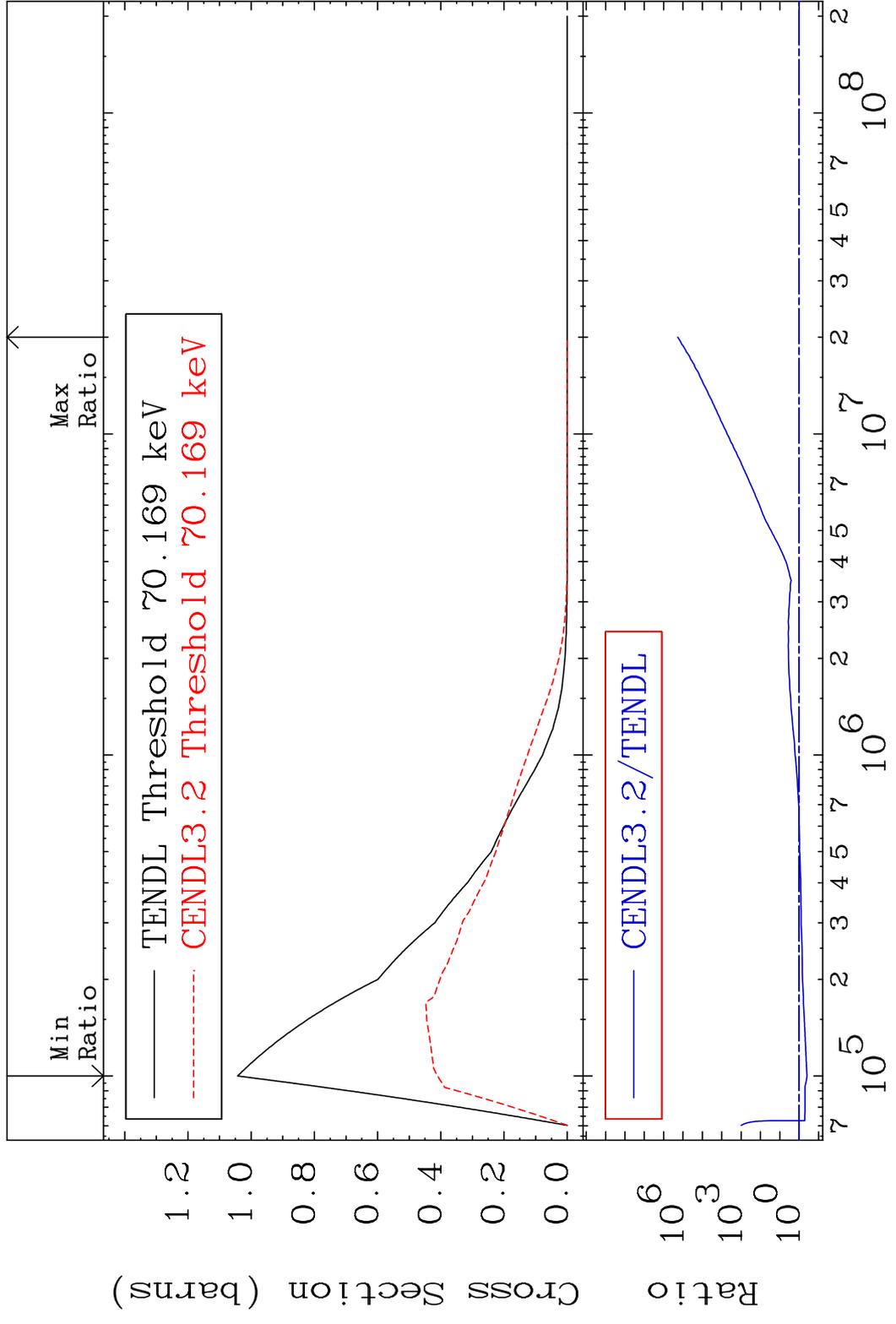
MAT 6246 MT= 51 (n, n') Level 62-Sm-151
 Cross Section -78.73 To 9999. %



MAT 6246 MT= 52 (n, n') Level 62-Sm-151
 Cross Section -56.27 To 9999. %

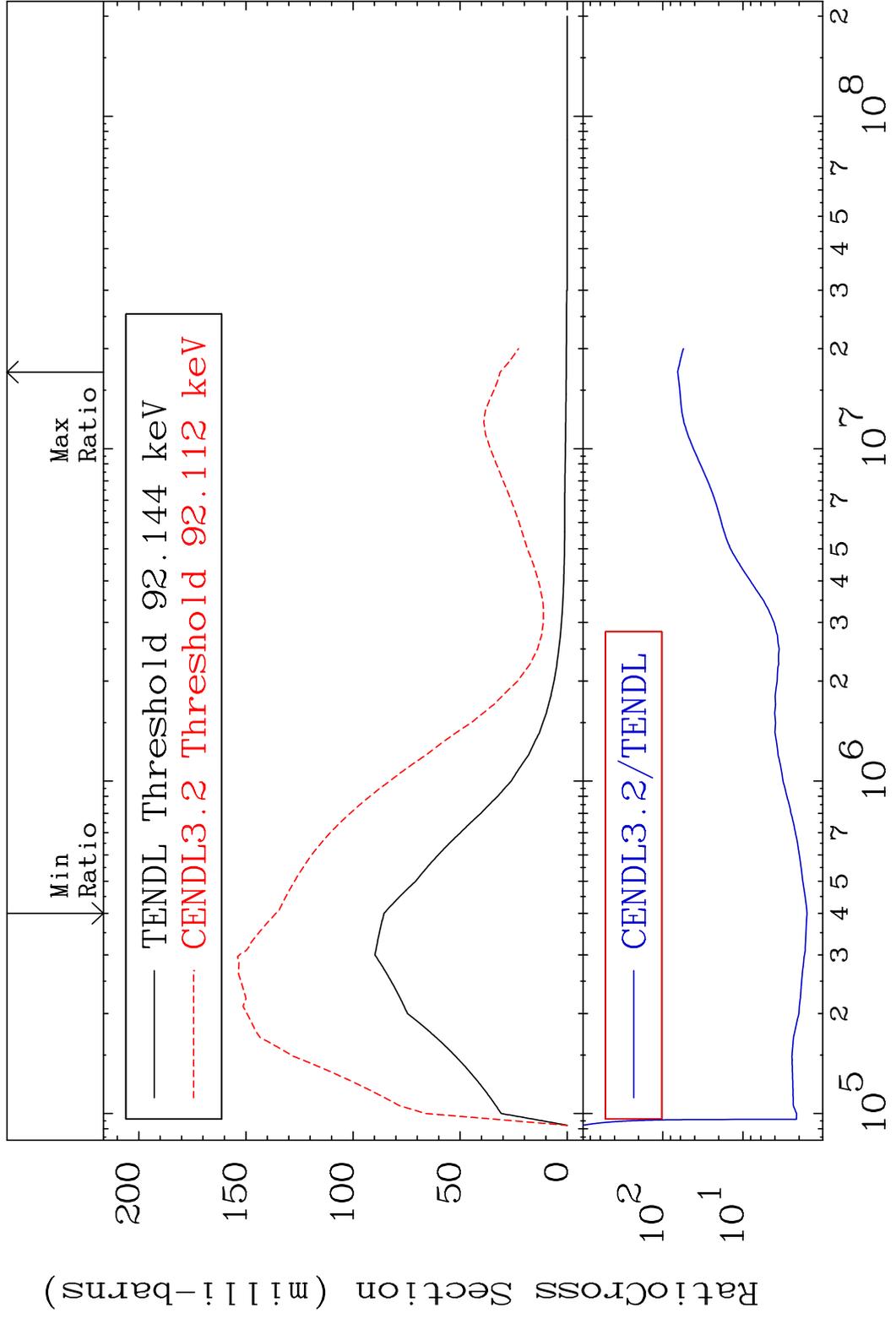


MAT 6246 MT= 53 (n,n') Level 62-Sm-151
 Cross Section -60.63 To 9999. %



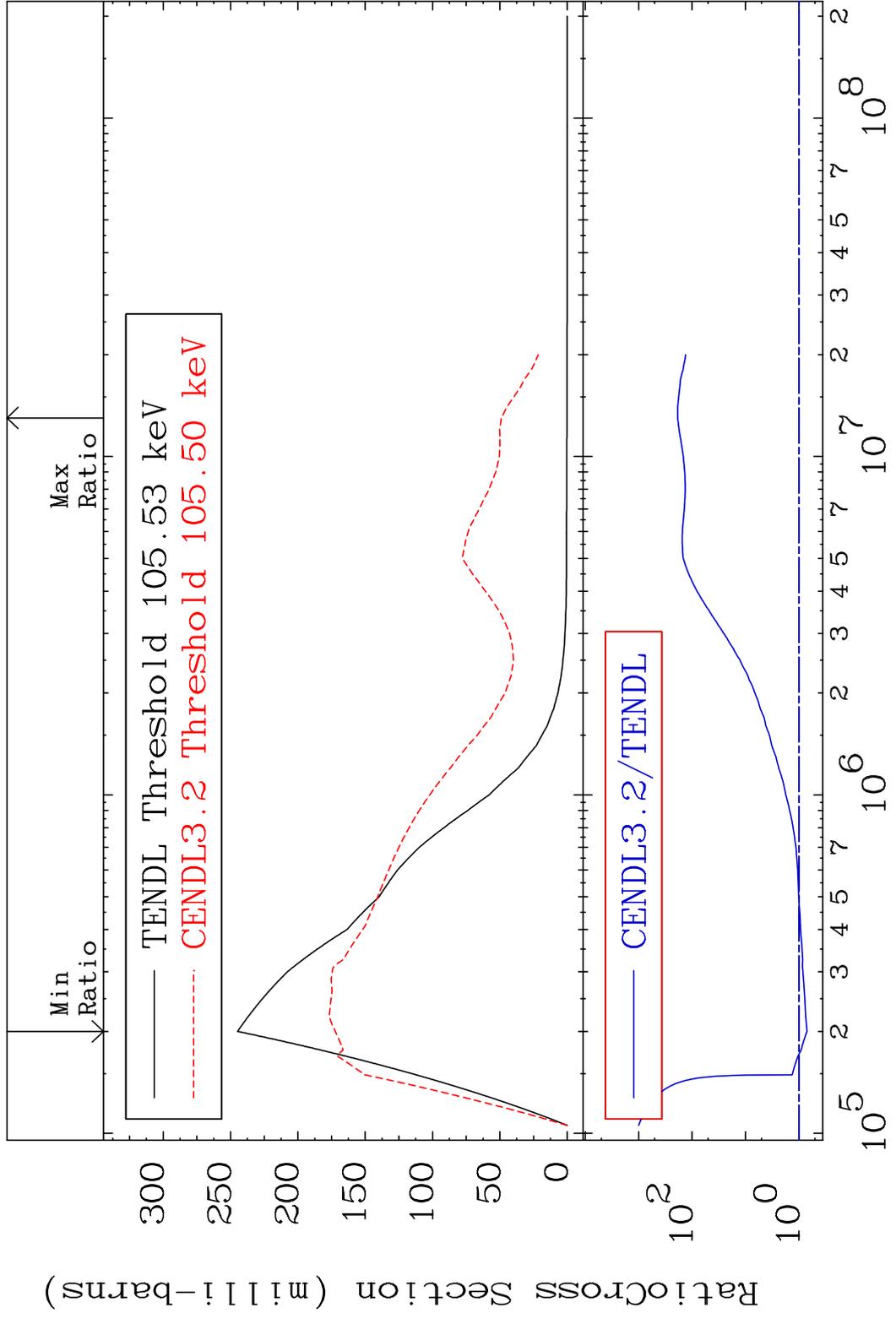
10 Incident Energy (eV) 62-Sm-151

MAT 6246 MT= 54 (n,n') Level 62-Sm-151
 Cross Section 59.00 To 6412. %



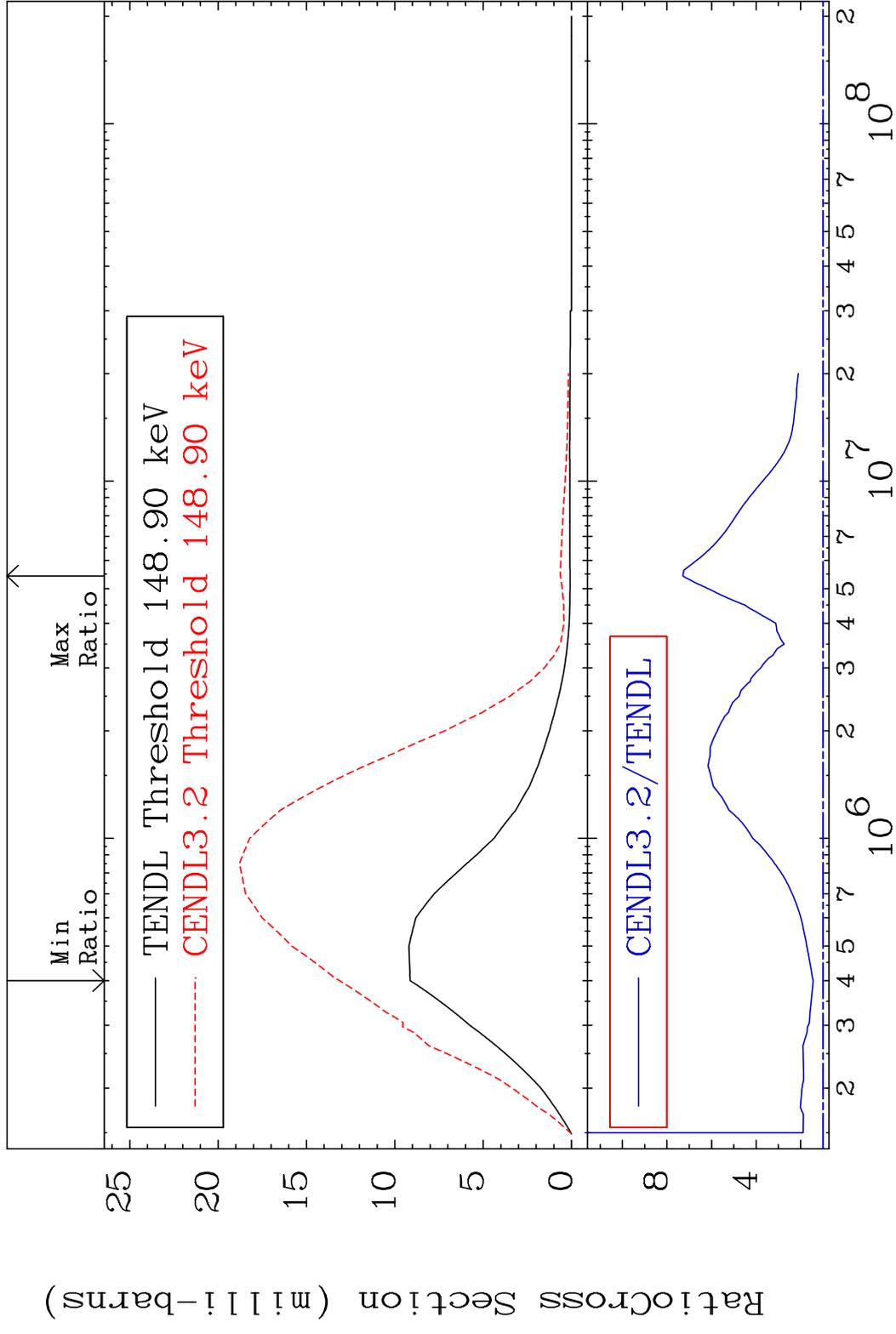
11 Incident Energy (eV) 62-Sm-151

MAT 6246 MT= 55 (n,n') Level 62-Sm-151
 Cross Section -29.64 To 9999. %

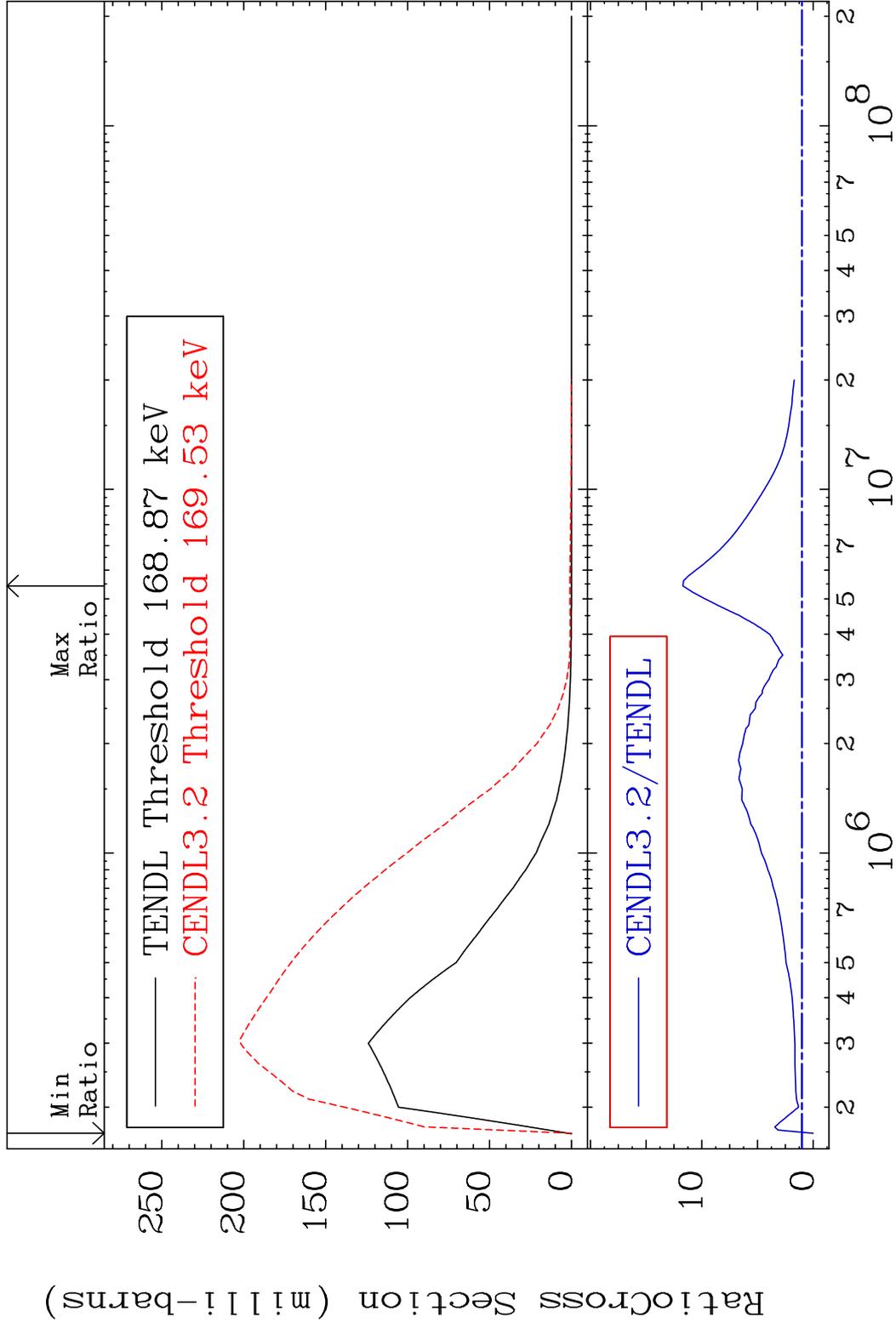


12 Incident Energy (eV) 62-Sm-151

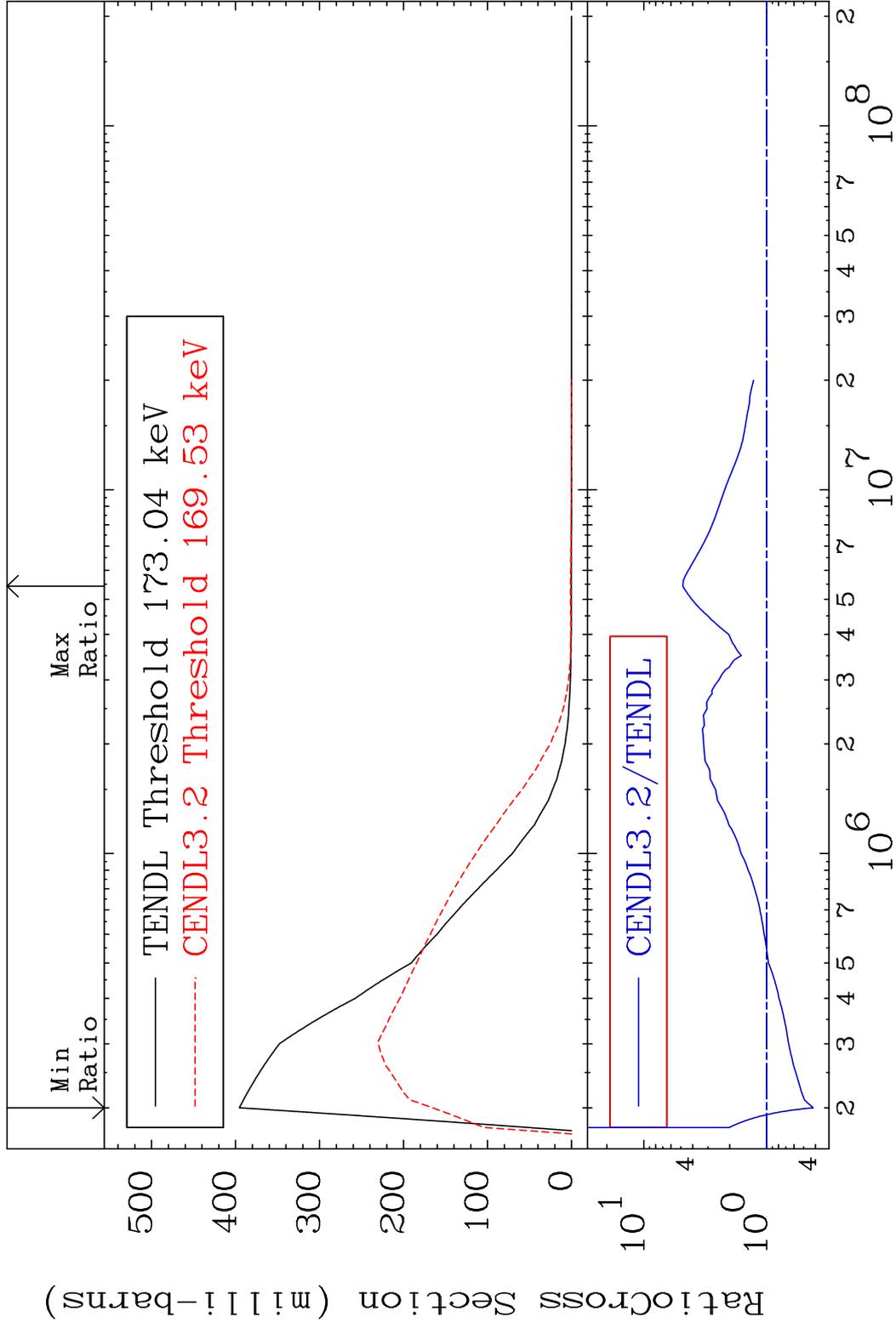
MAT 6246 MT= 56 (n, n') Level 62-Sm-151
 Cross Section 43.79 To 628.9 %



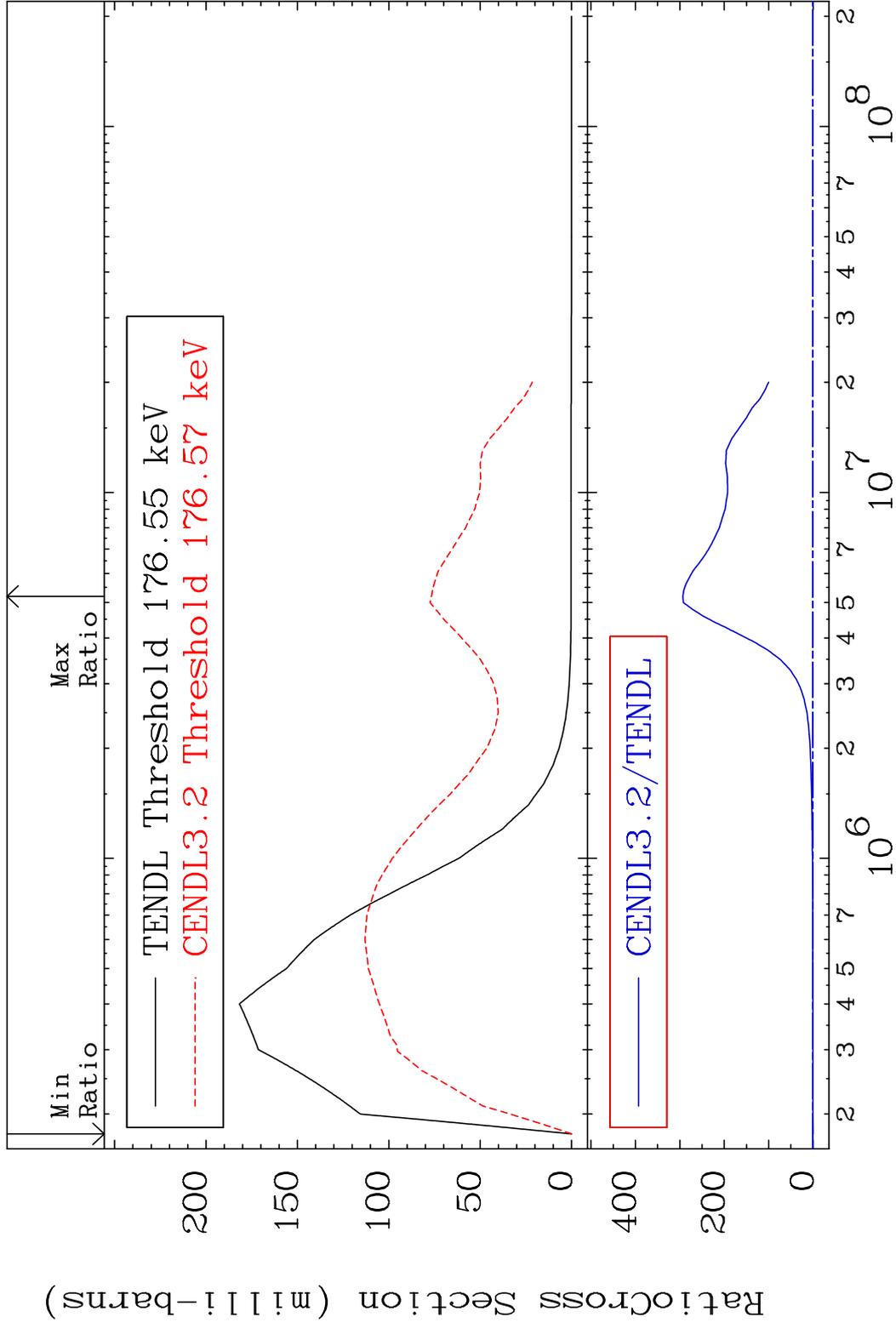
MAT 6246 MT= 57 (n, n') Level 62-Sm-151
 Cross Section -100.0 To 1070. %



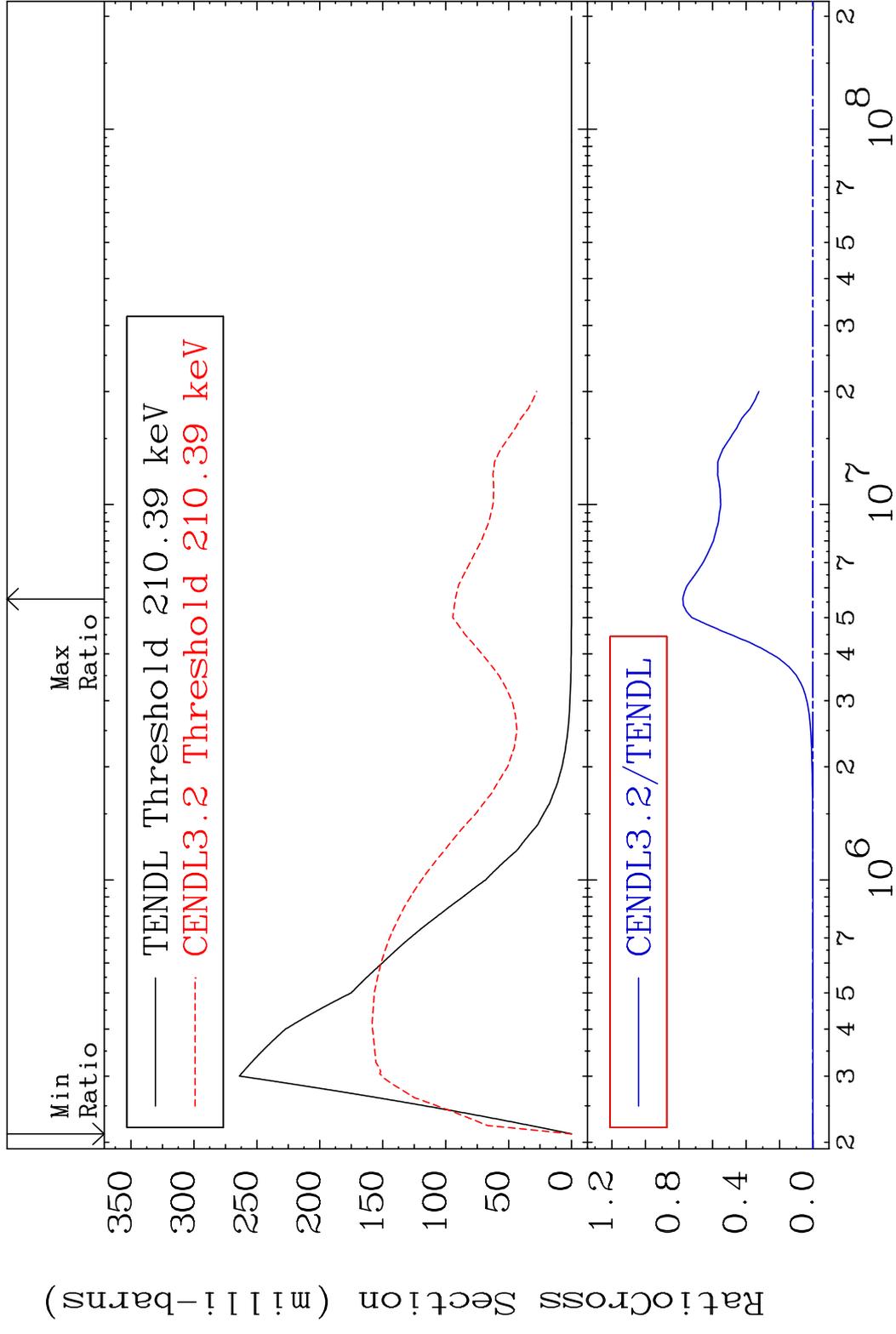
MAT 6246 MT= 58 (n, n') Level 62-Sm-151
 Cross Section -58.14 To 381.3 %



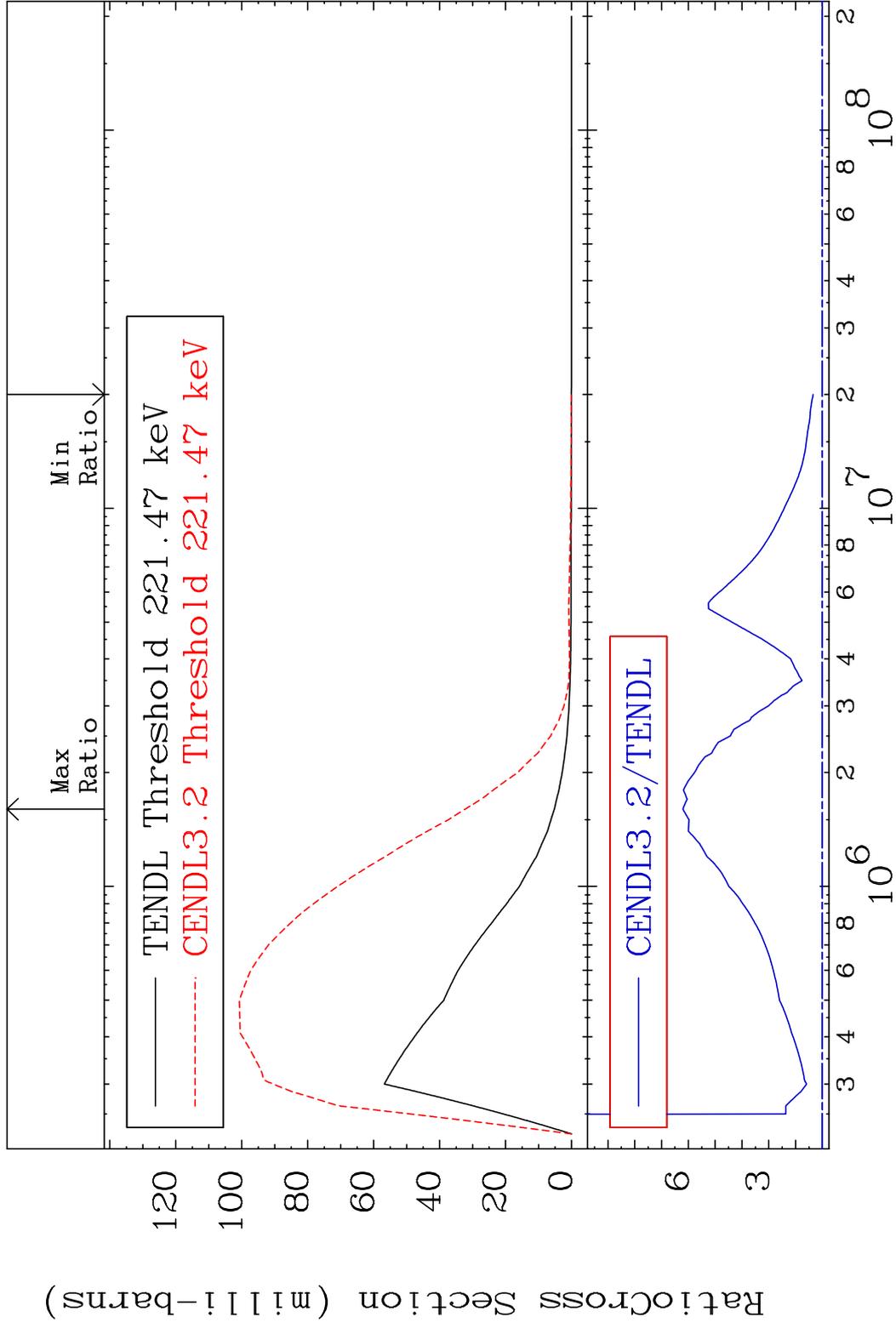
MAT 6246 MT= 59 (n, n') Level 62-Sm-151
 Cross Section -100.0 To 9999. %



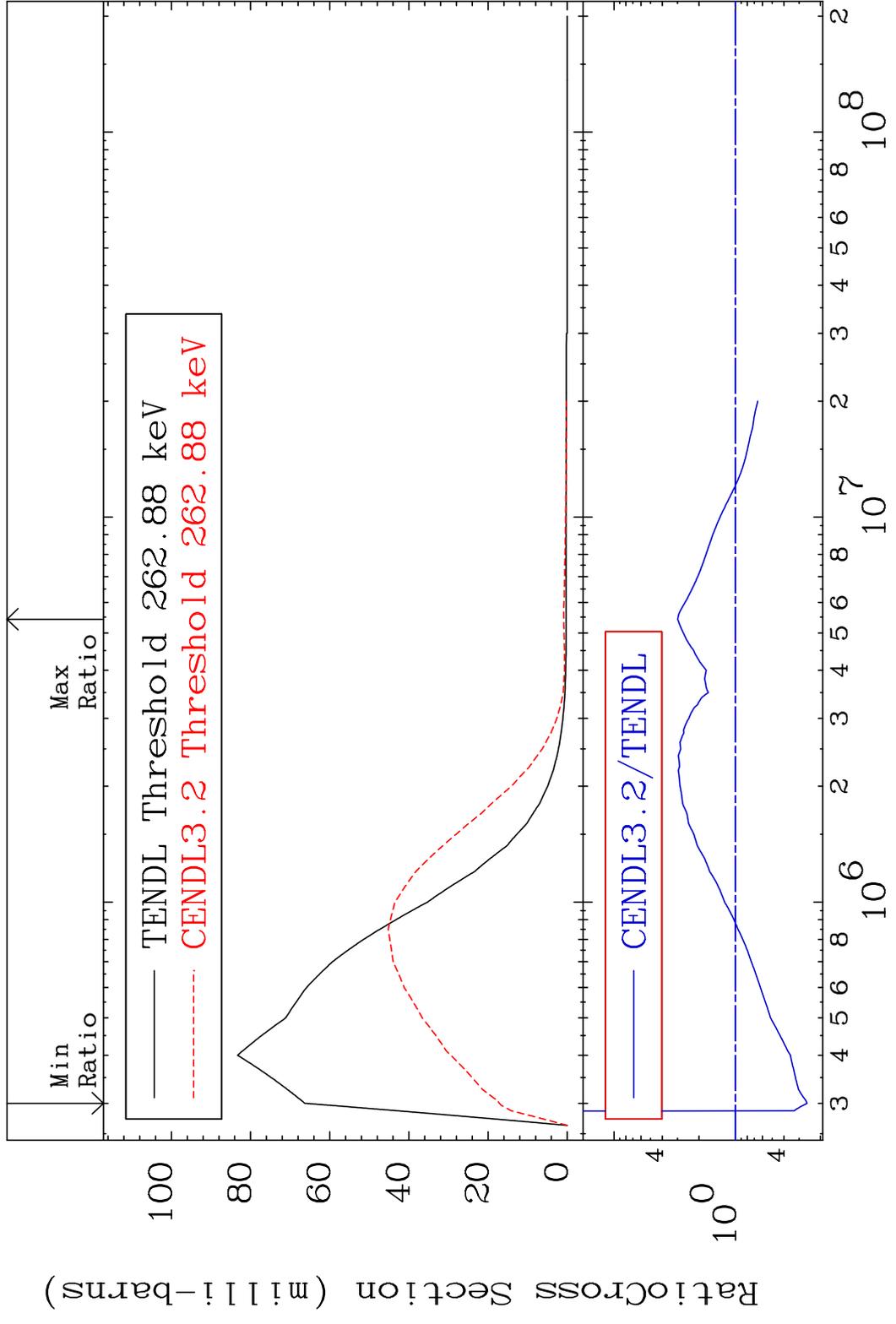
MAT 6246 MT= 60 (n, n') Level 62-Sm-151
 Cross Section -100.0 To 9999. %



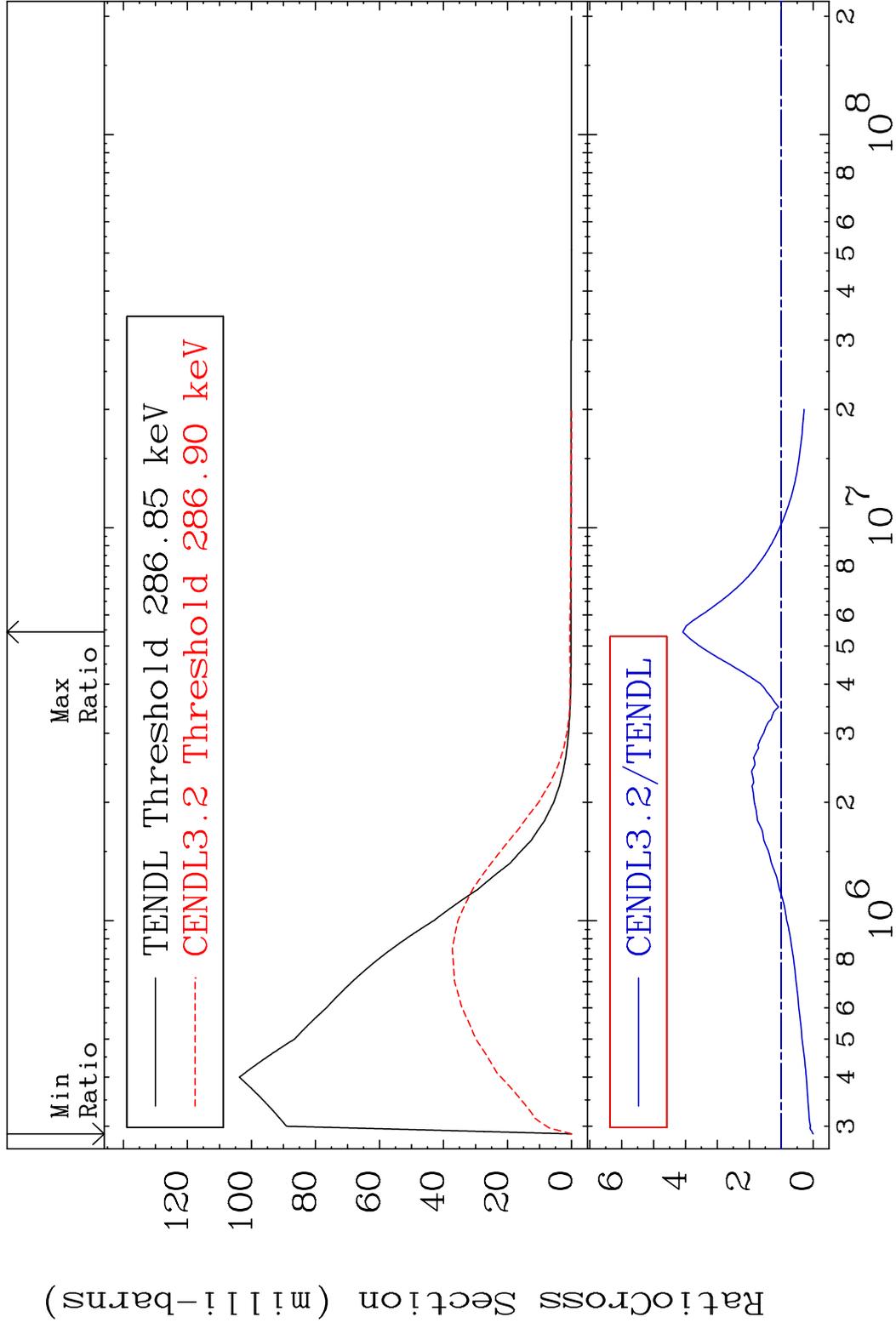
MAT 6246 MT= 61 (n, n') Level 62-Sm-151
 Cross Section 34.43 To 520.6 %



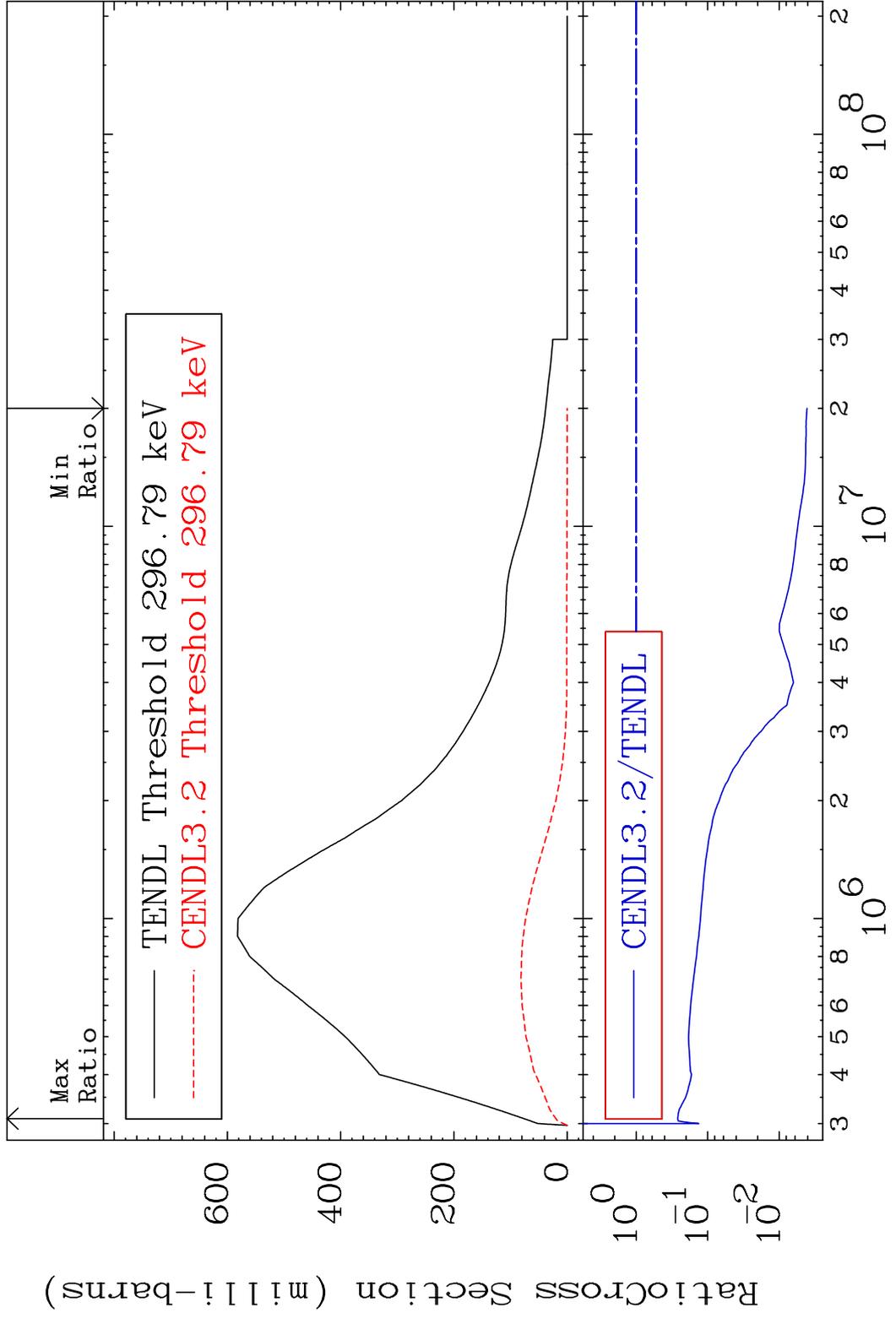
MAT 6246 MT= 62 (n, n') Level 62-Sm-151
 Cross Section -74.19 To 199.4 %



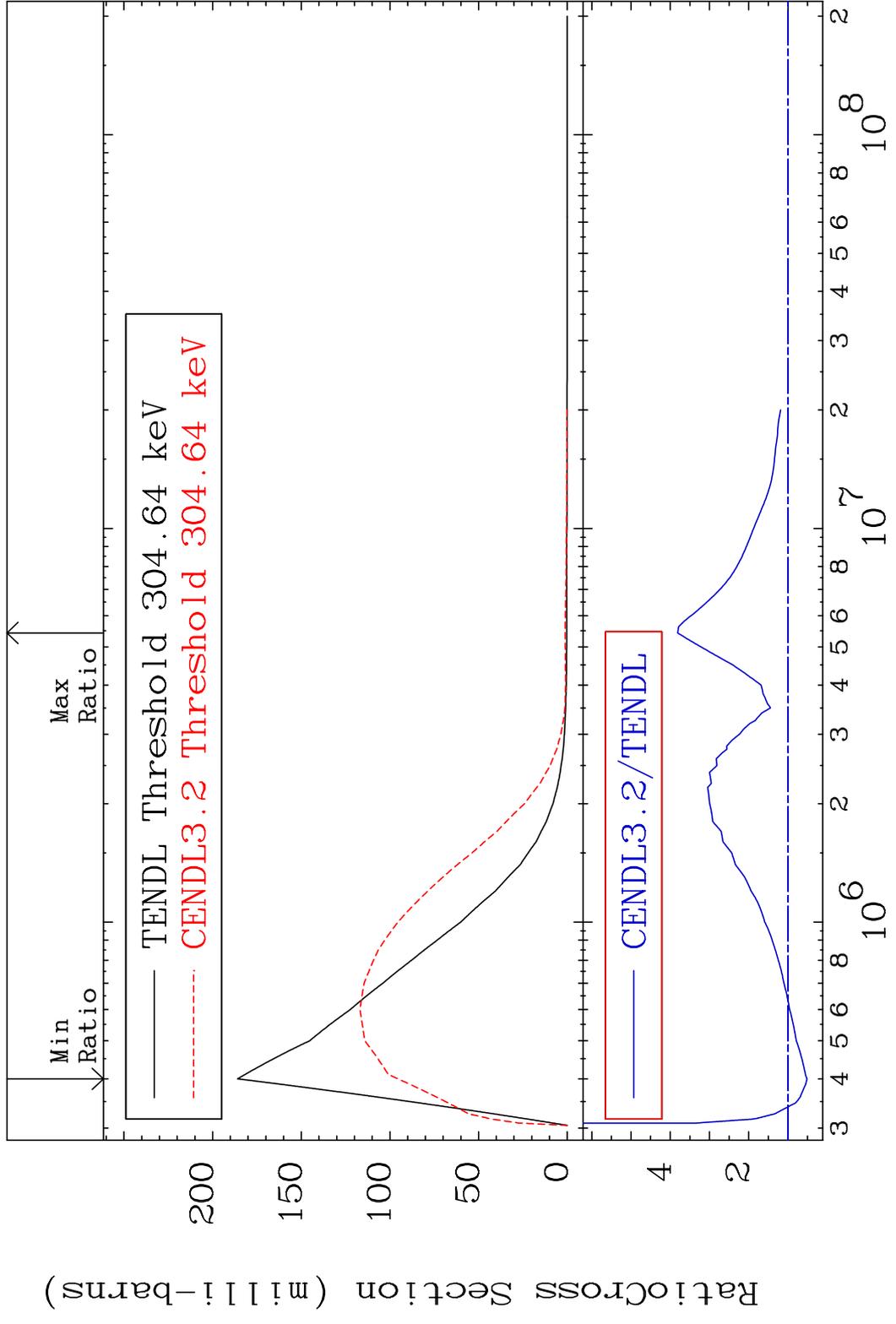
MAT 6246 MT= 63 (n, n') Level 62-Sm-151
 Cross Section -100.0 To 308.4 %



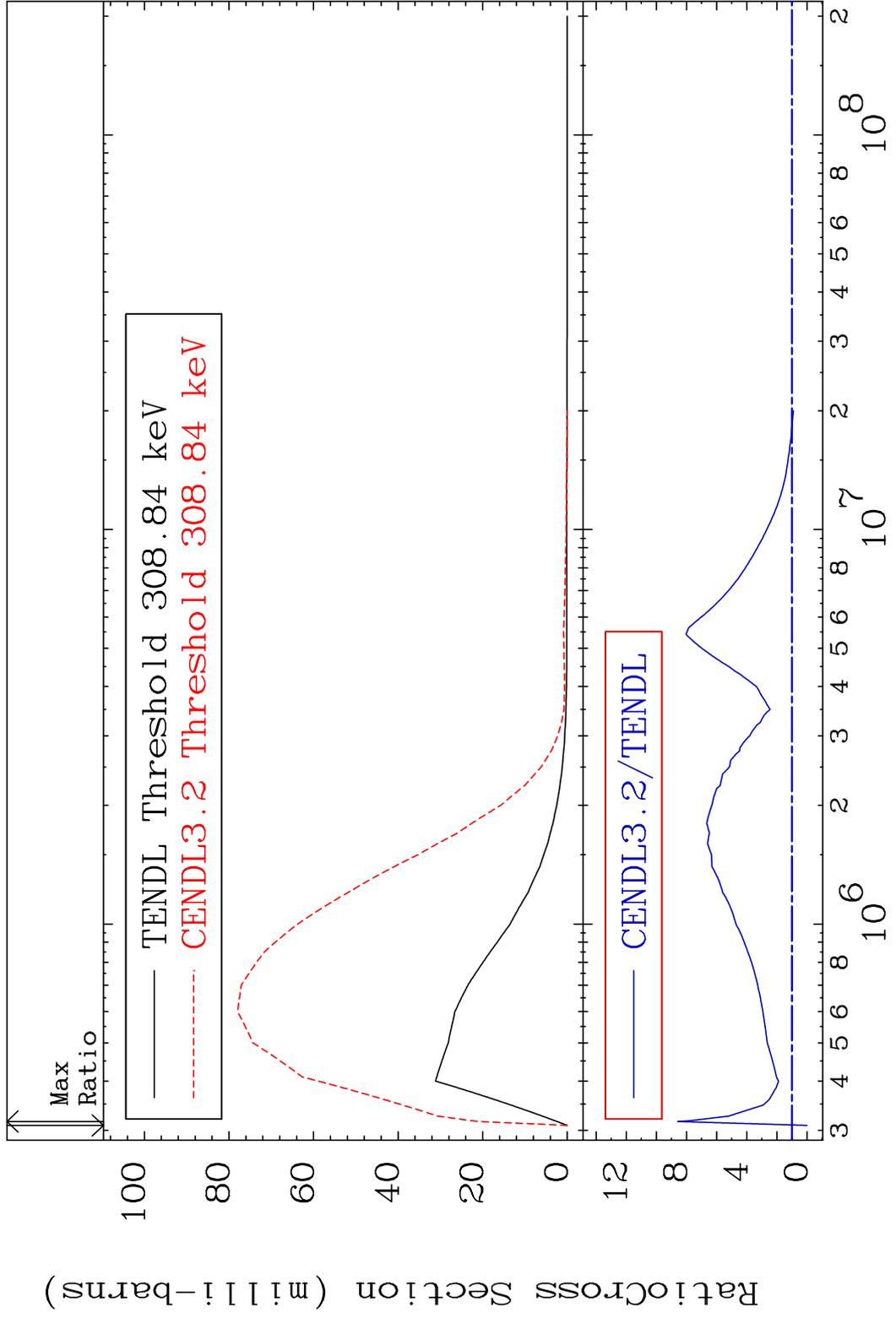
MAT 6246 MT= 64 (n,n') Level 62-Sm-151
 Cross Section -99.59 To -73.69%



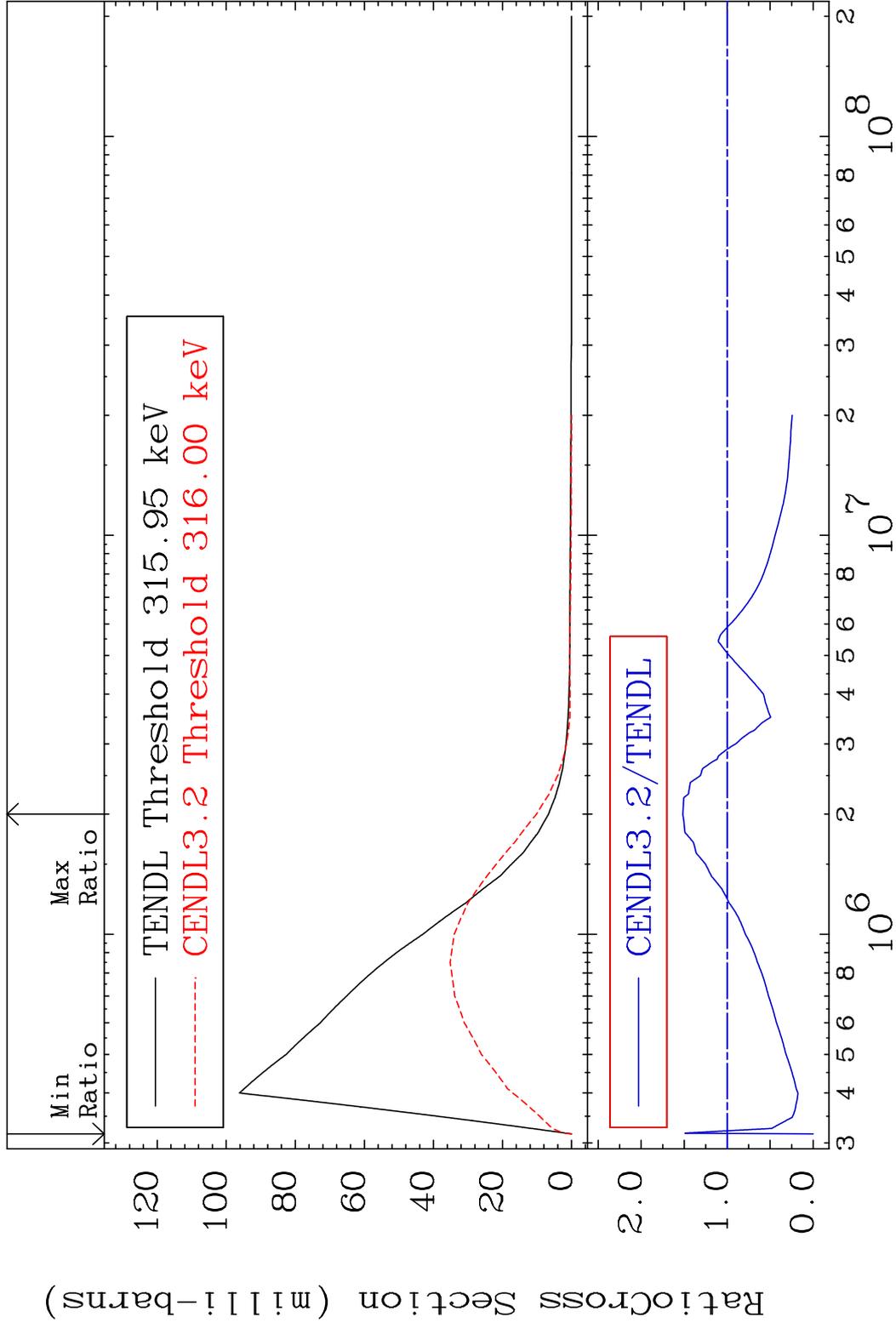
MAT 6246 MT= 65 (n, n') Level 62-Sm-151
 Cross Section -48.63 To 281.0 %



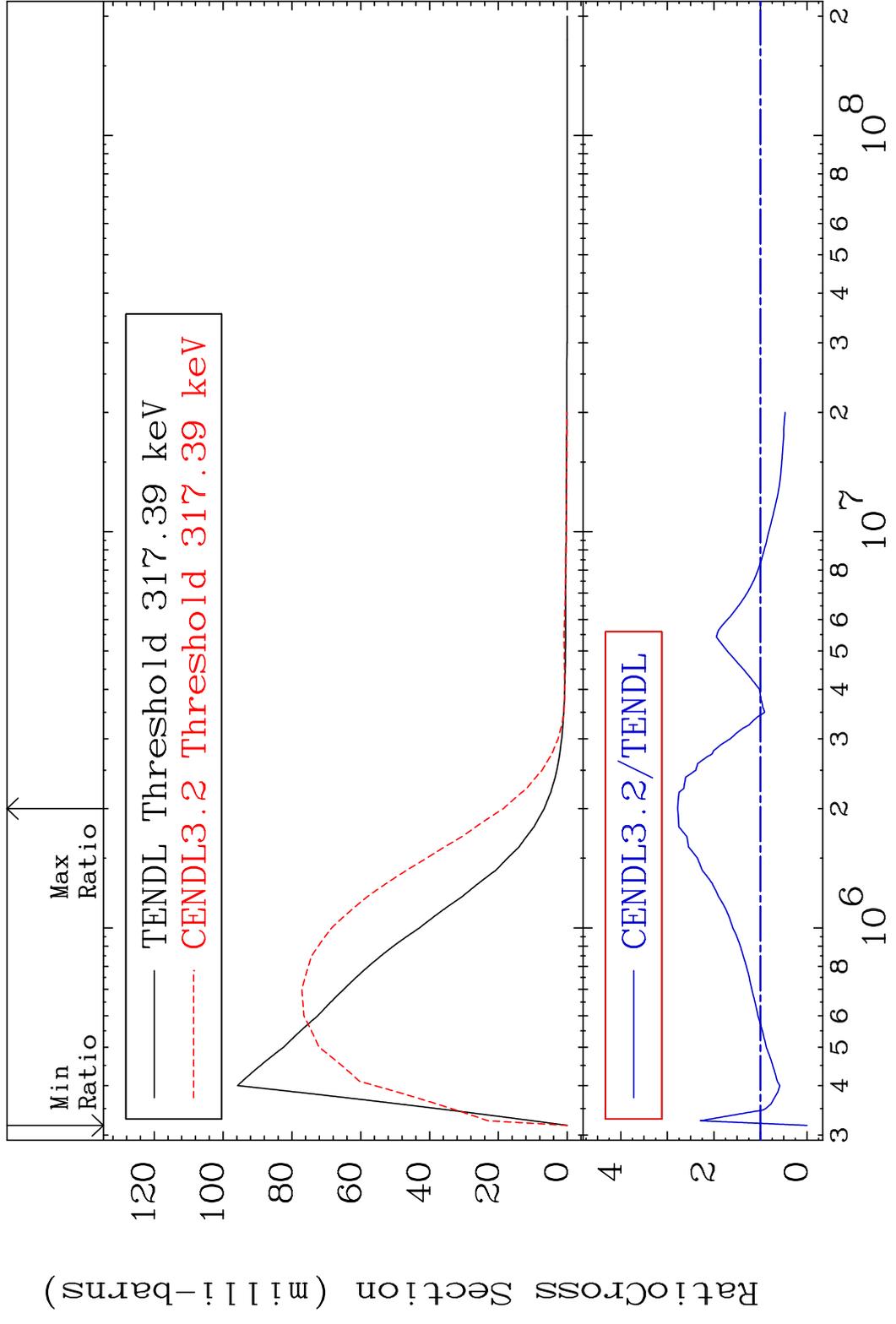
MAT 6246 MT= 66 (n,n') Level 62-Sm-151
 Cross Section -100.0 To 758.5 %



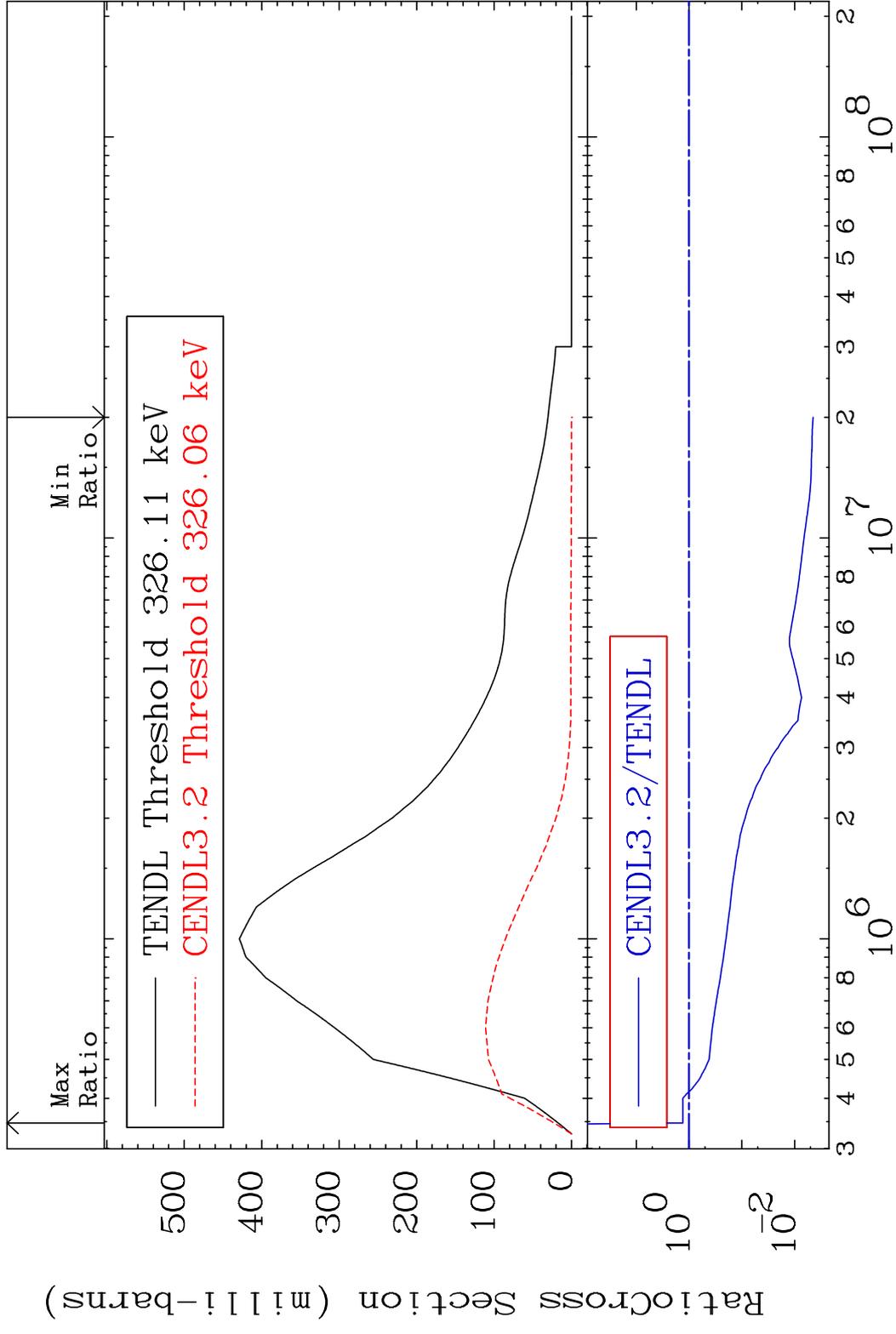
MAT 6246 MT= 67 (n, n') Level 62-Sm-151
 Cross Section -100.0 To 51.58 %



MAT 6246 MT= 68 (n,n') Level 62-Sm-151
 Cross Section -100.0 To 177.8 %



MAT 6246 MT= 69 (n, n') Level 62-Sm-151
 Cross Section -99.55 To 31.54 %

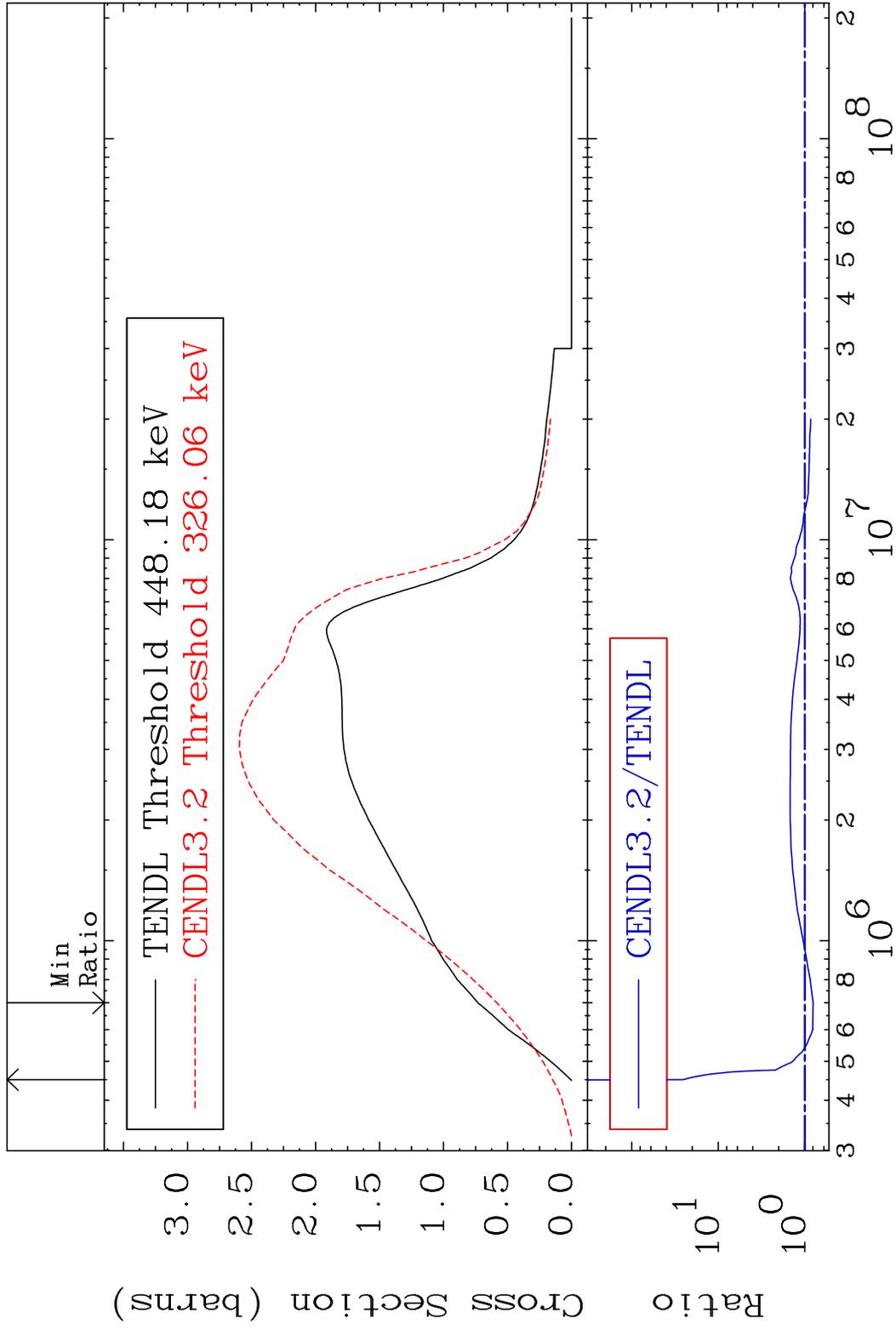


MAT 6246

(n, n') Continuum

62-Sm-151

Cross Section -20.20 To 2470. %

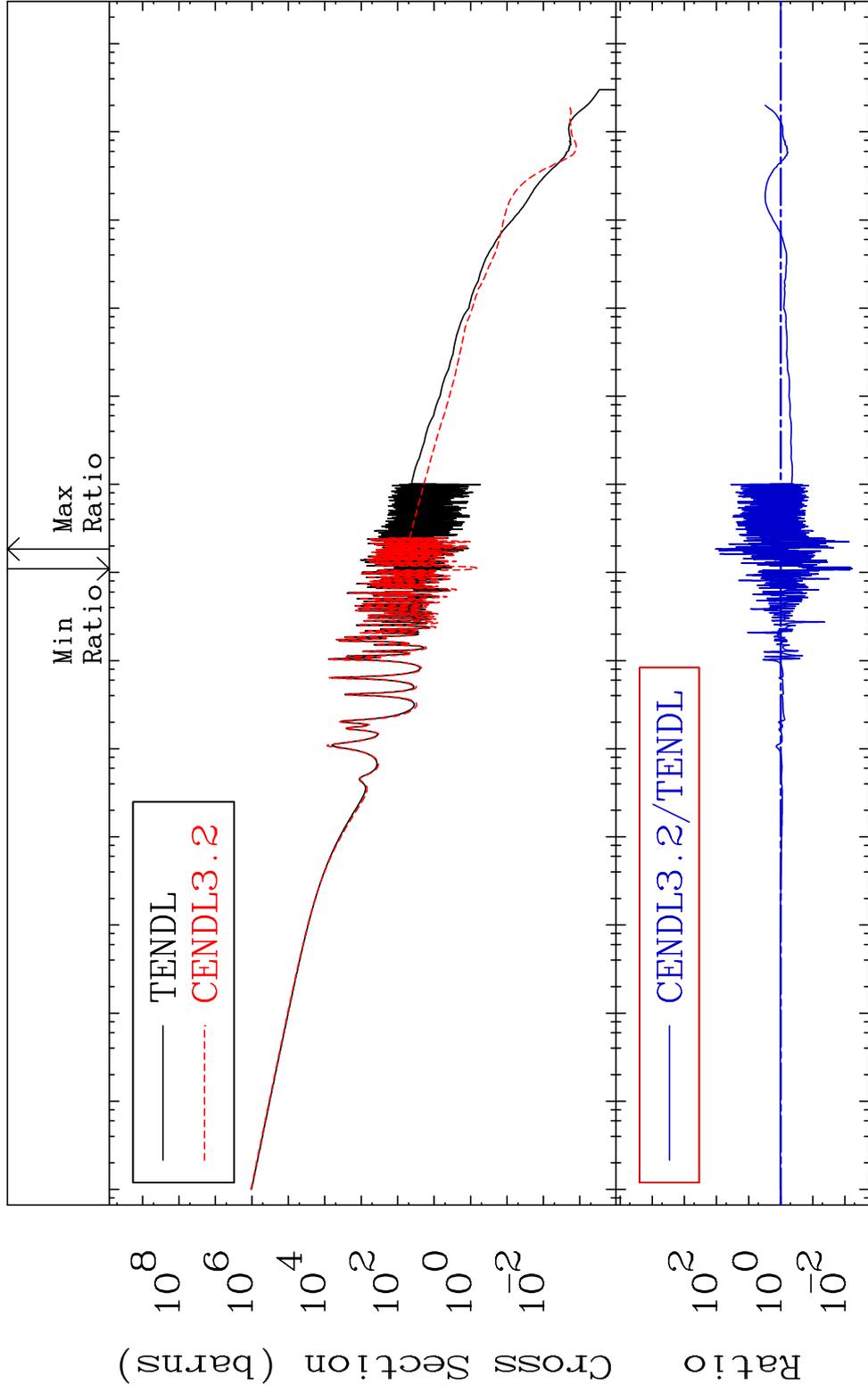


MAT 6246

(n, γ)

62-Sm-151

Cross Section -99.42 To 9999. %



28

Incident Energy (eV)

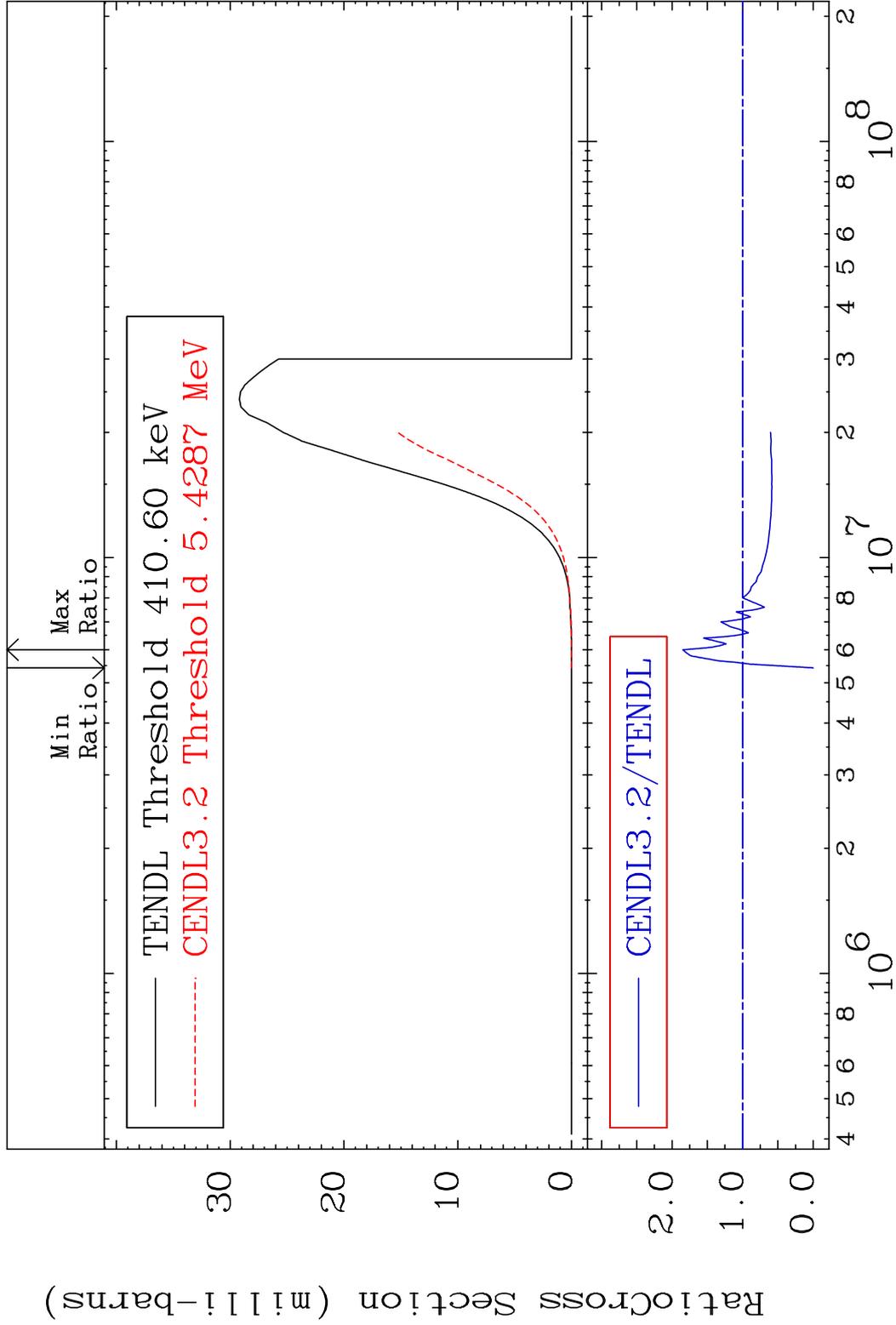
62-Sm-151

MAT 6246

(n, p)

62-Sm-151

Cross Section -100.0 To 84.75 %

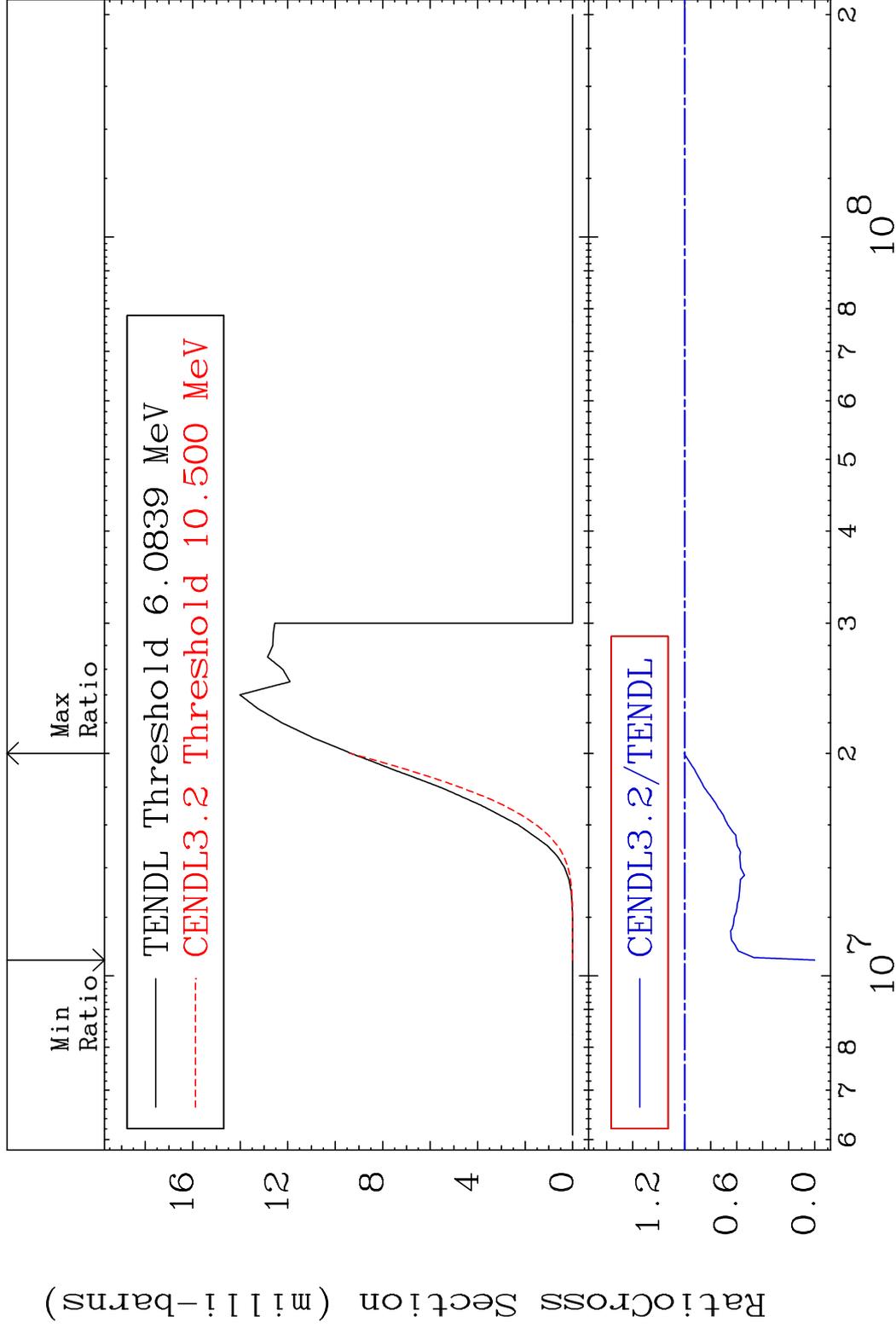


MAT 6246

(n, d)

62-Sm-151

Cross Section -100.0 To 0.397 %

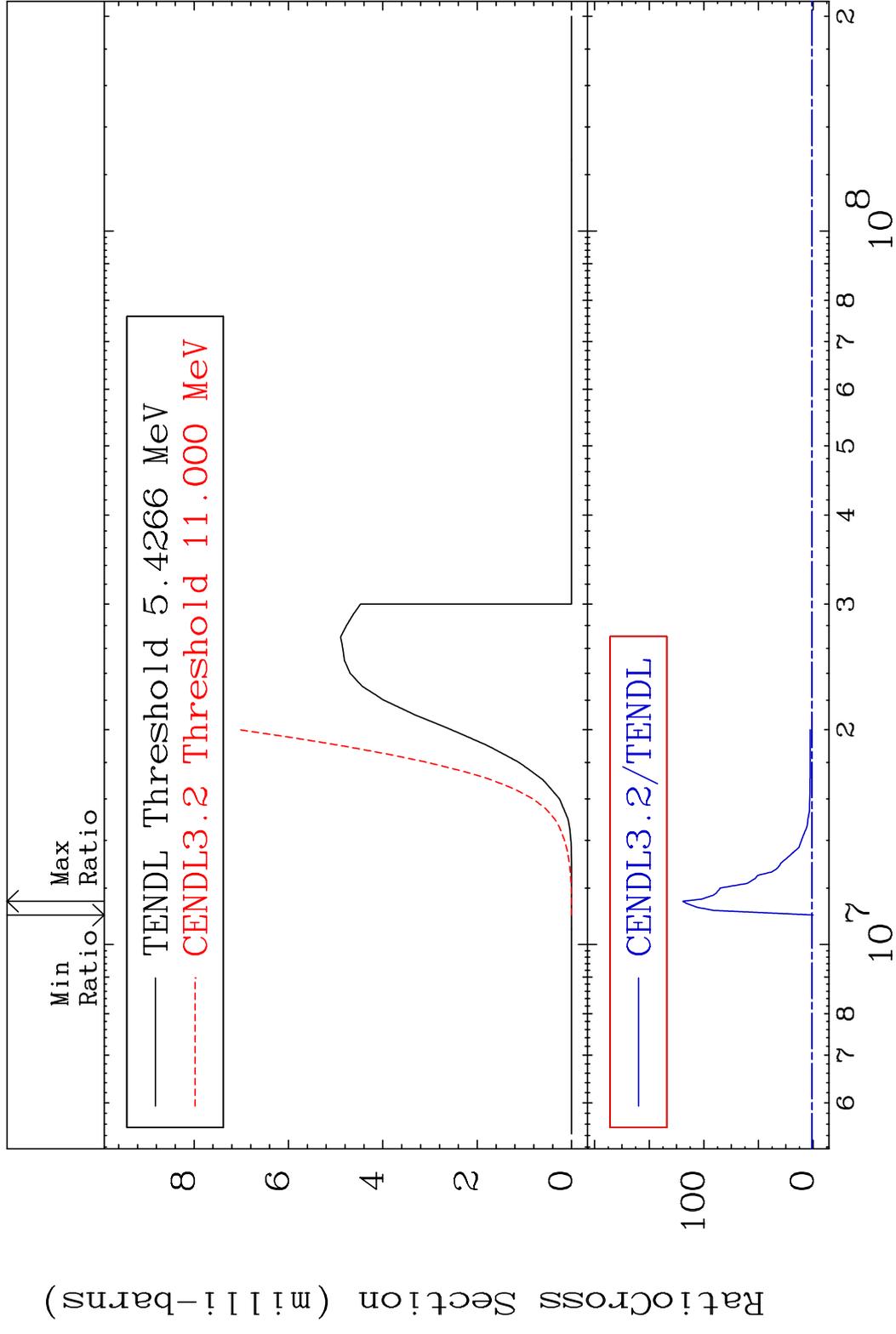


30

Incident Energy (eV)

62-Sm-151

MAT 6246 (n, t) 62-Sm-151
 Cross Section -100.0 To 9999. %

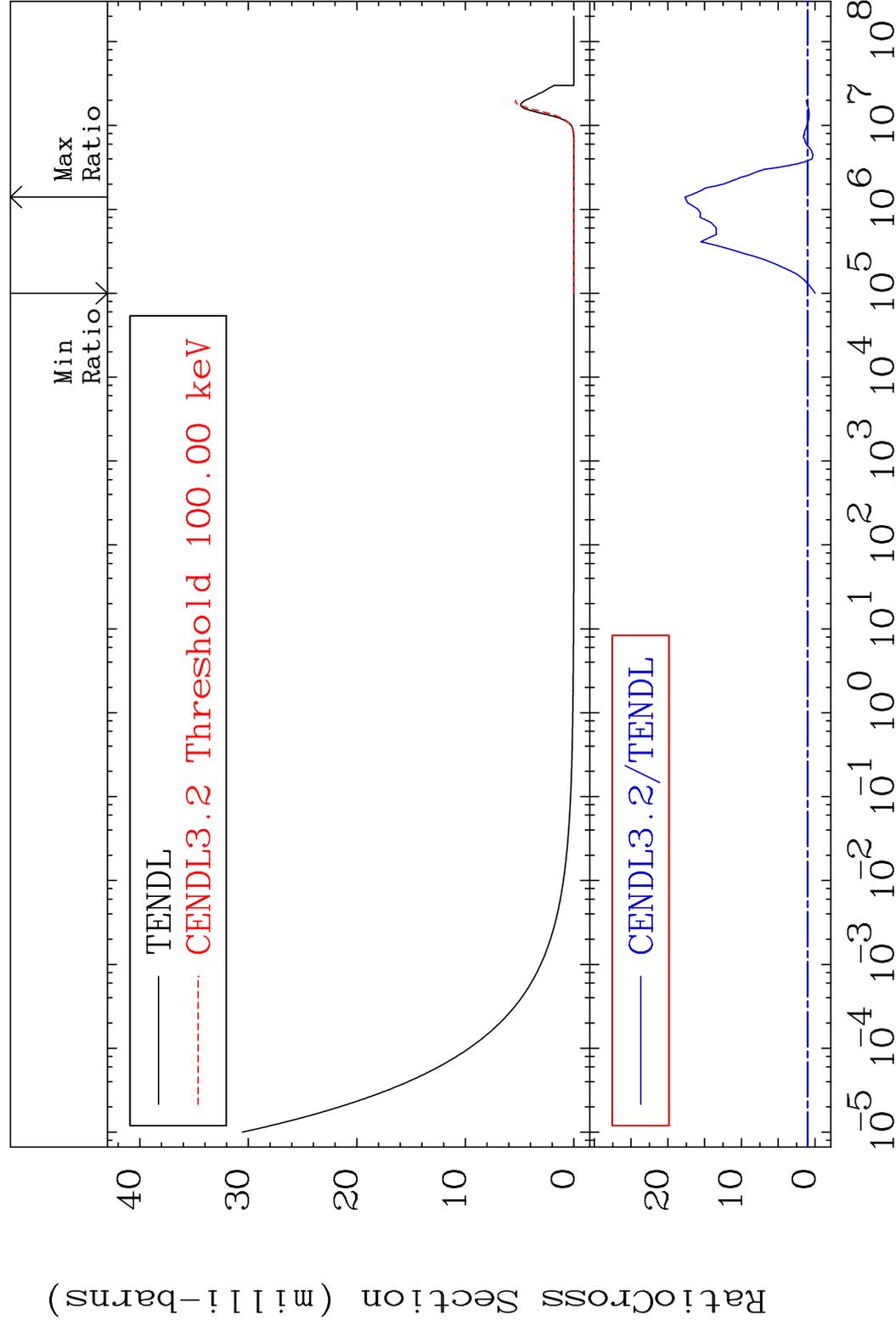


MAT 6246

(n, α)

62-Sm-151

Cross Section -100.0 To 1668. %

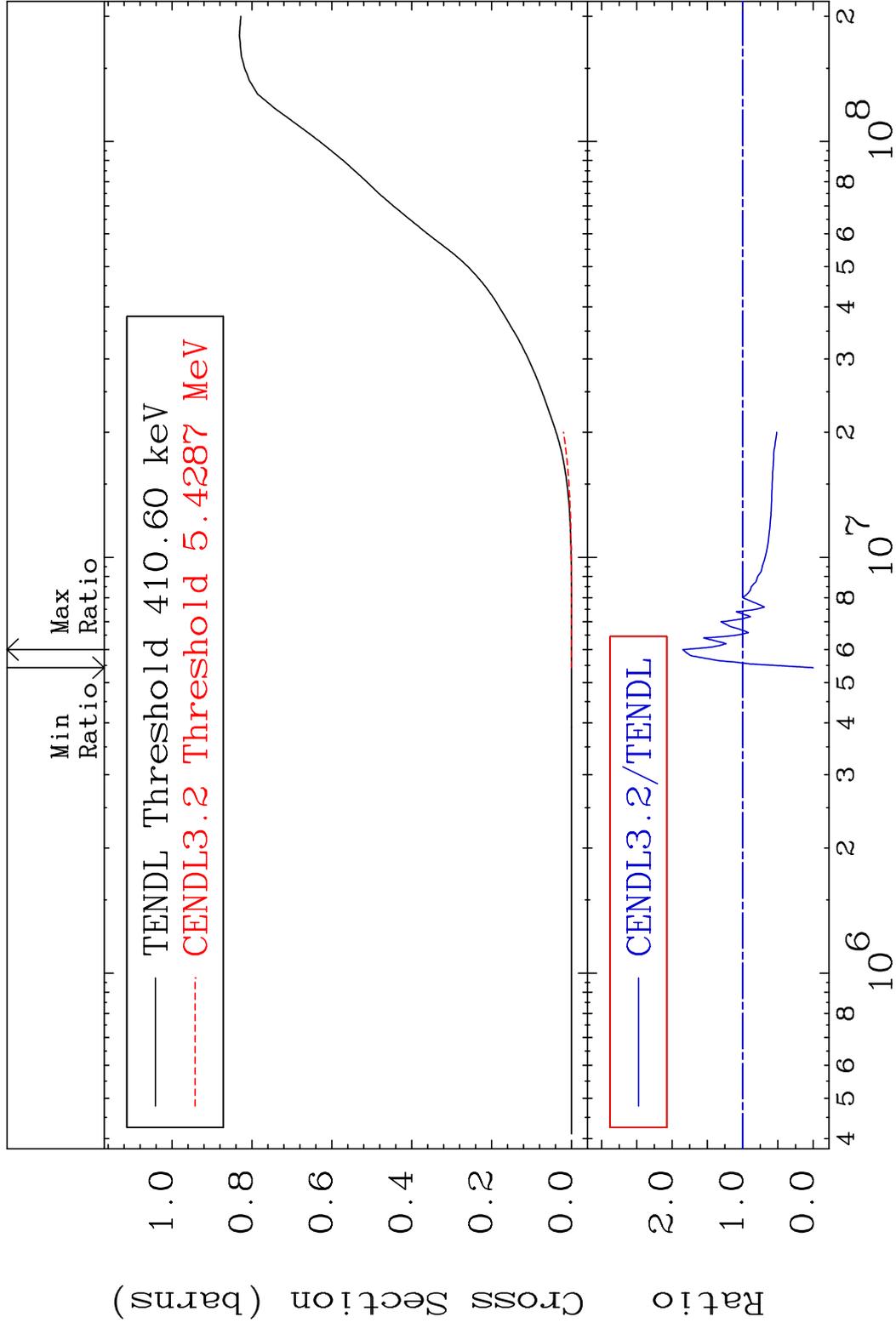


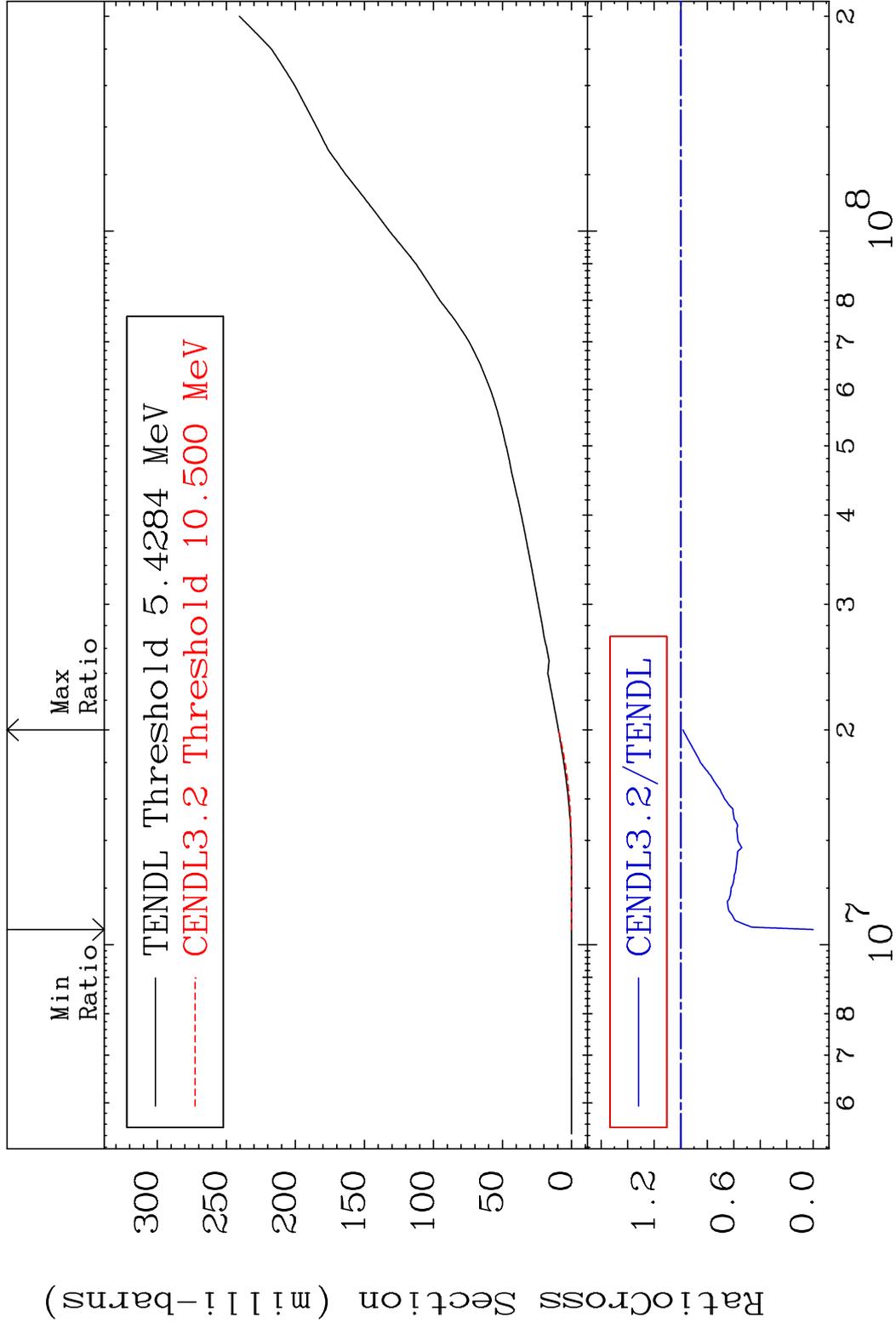
32

Incident Energy (eV)

62-Sm-151

MAT 6246 Hydrogen Production 62-Sm-151
 Cross Section -100.0 To 84.75 %

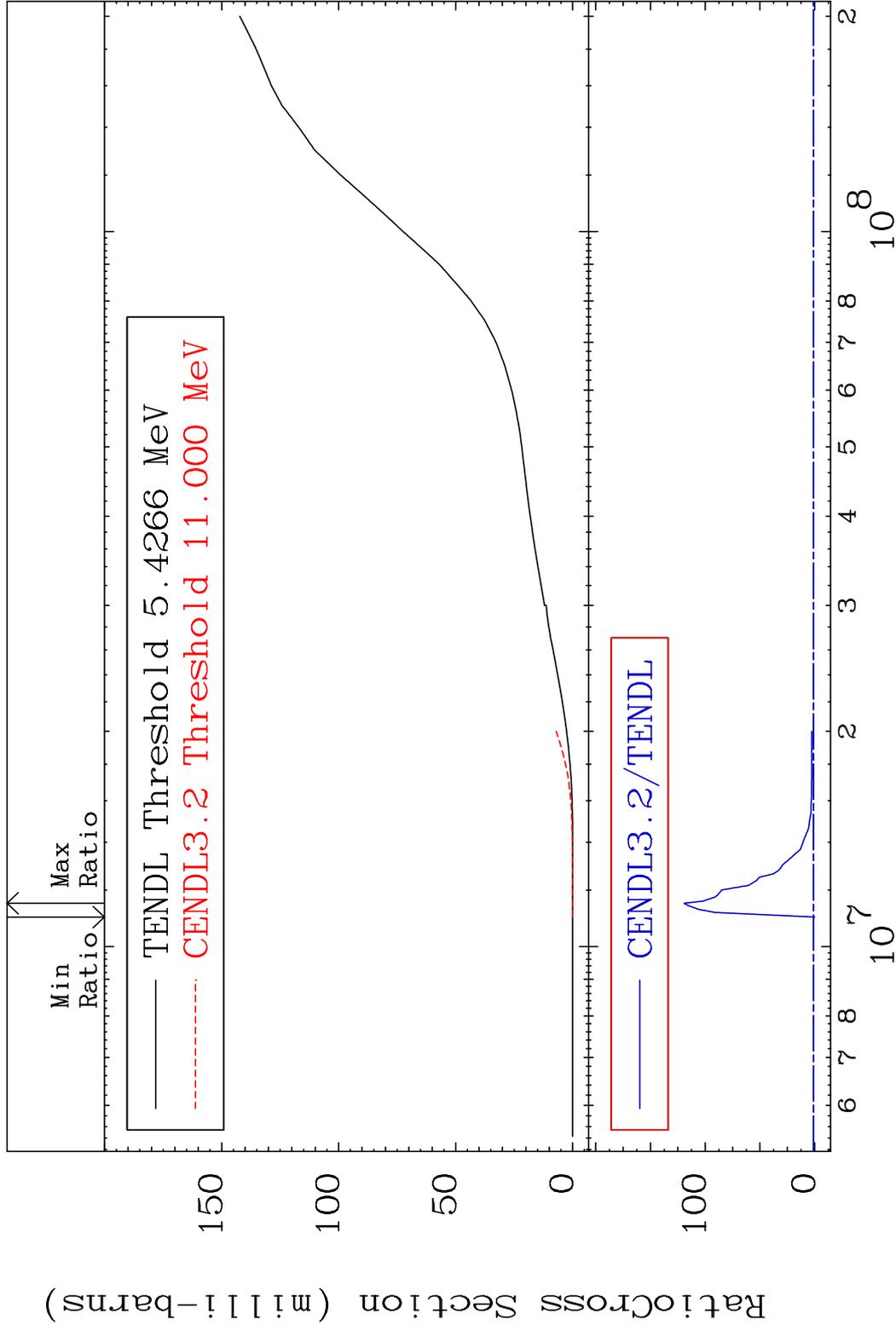




MAT 6246

Tritium Production 62-Sm-151

Cross Section -100.0 To 9999. %



35

Incident Energy (eV)

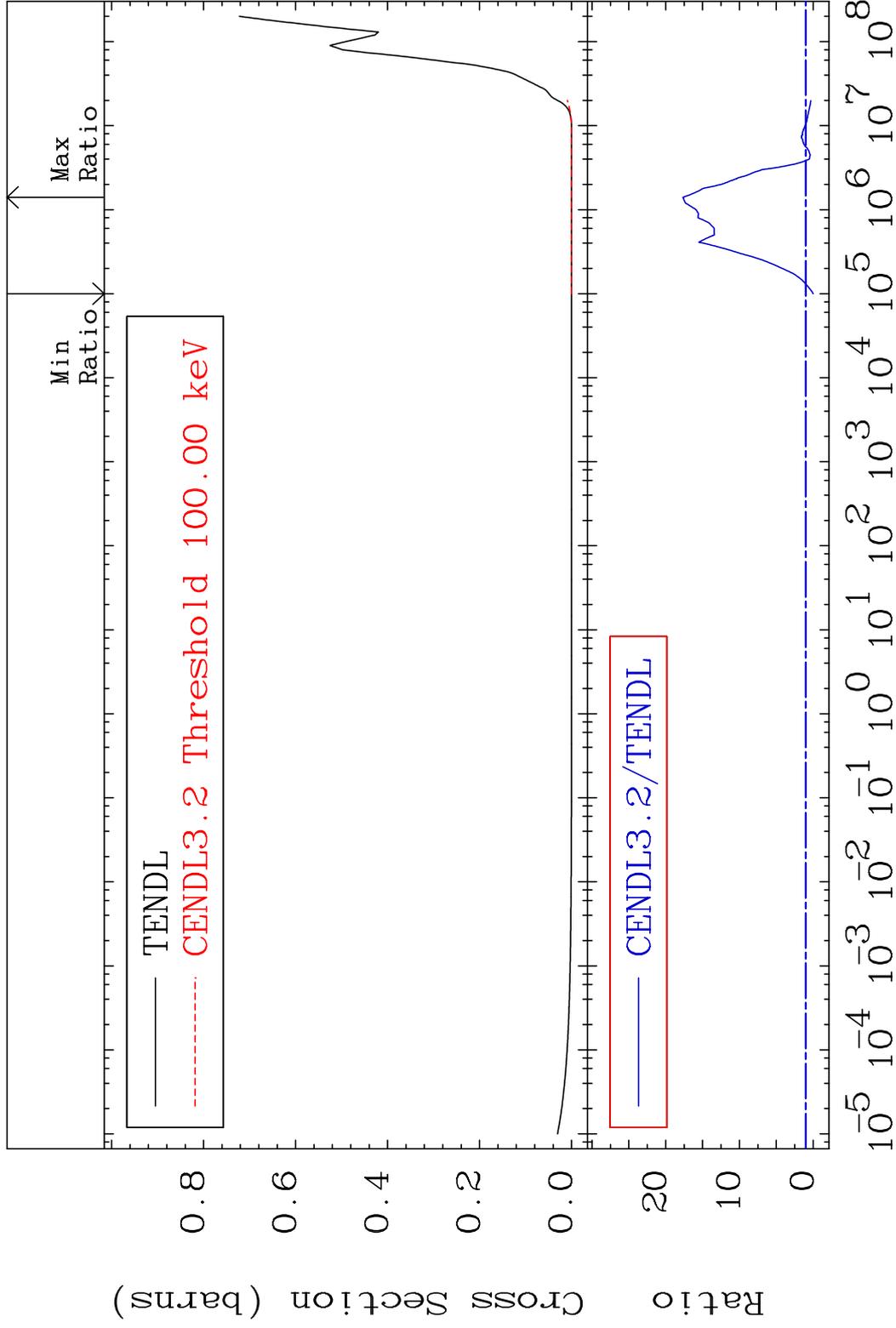
62-Sm-151

MAT 6246

He-4 Production

62-Sm-151

Cross Section -100.0 To 1668. %

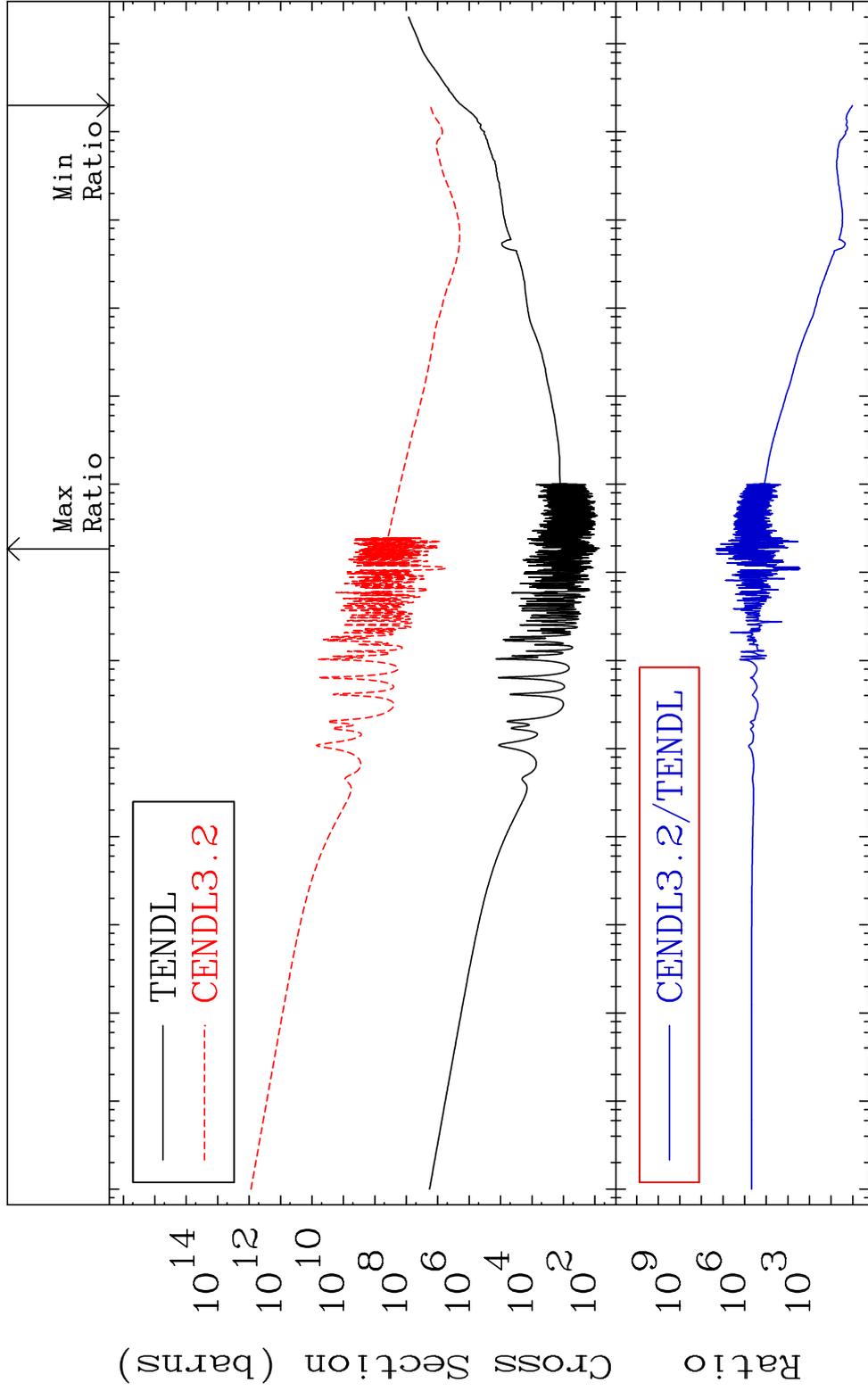


36

Incident Energy (eV)

62-Sm-151

MAT 6246 Kerma total (eV-barns) 62-Sm-151
 Cross Section 919.9 To 9999. %

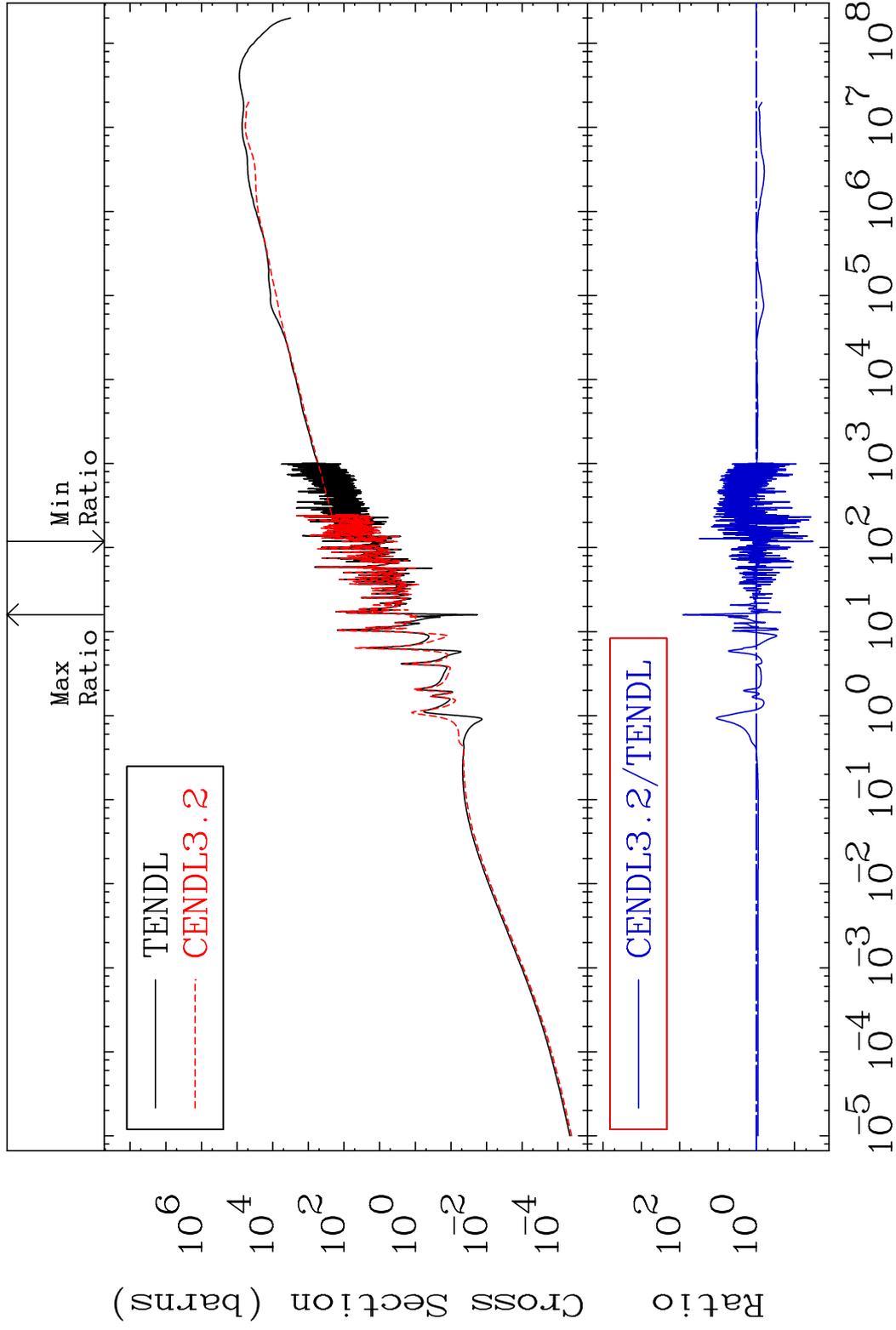


Ratio
 Cross Section (barns)
 Incident Energy (eV)

MAT 6246

Kerma elastic
Cross Section

62-Sm-151
-96.74 To 8137. %

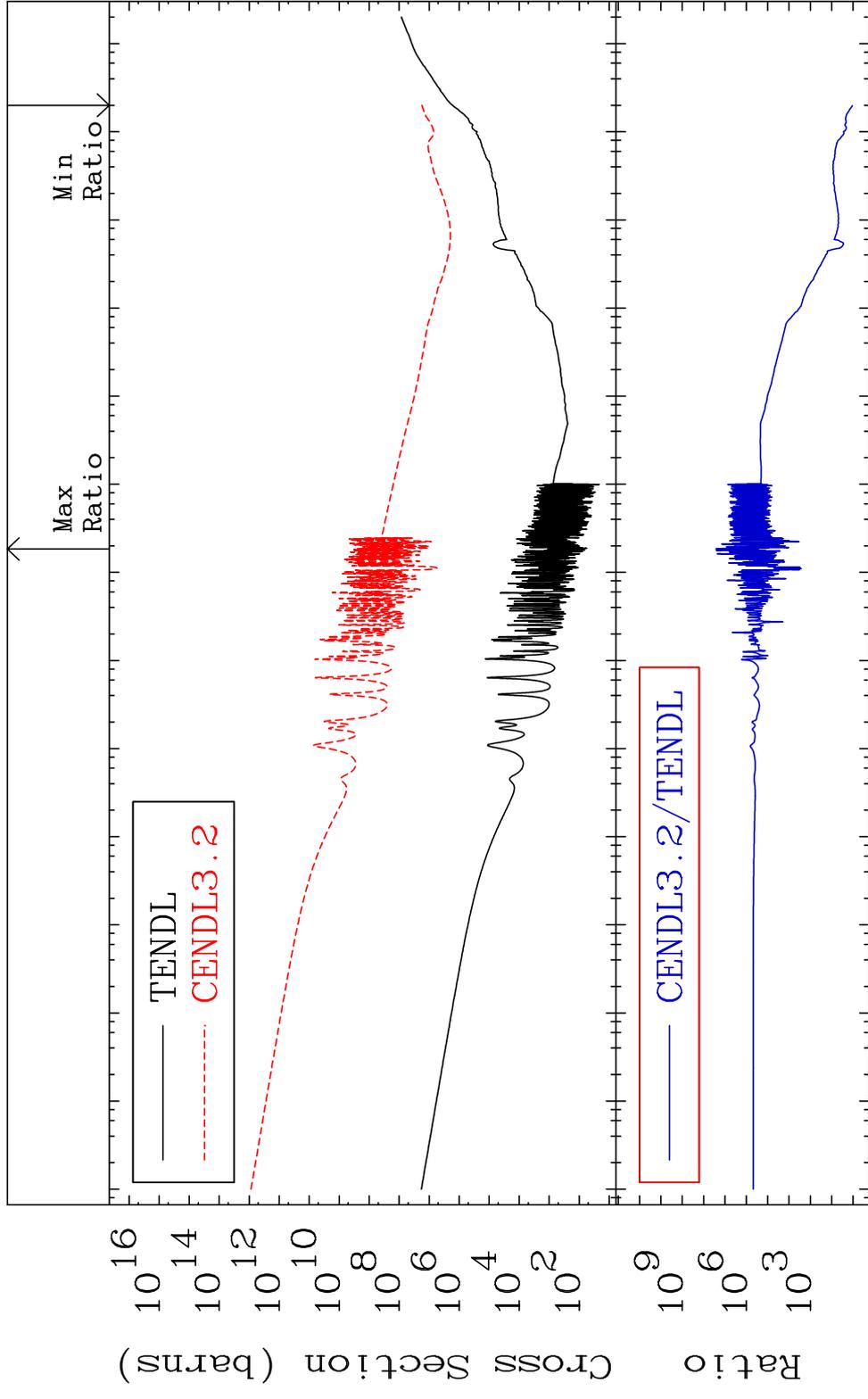


38

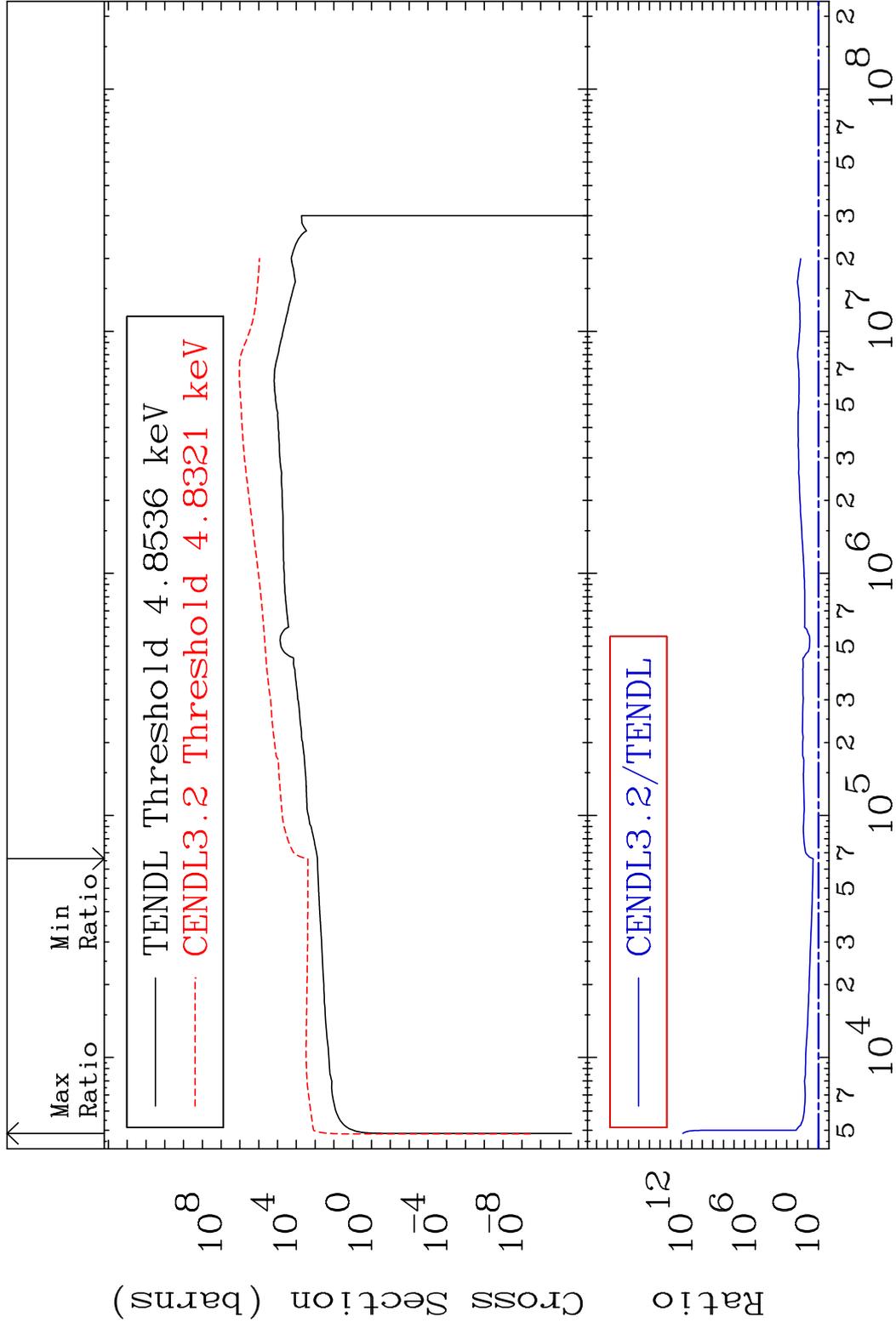
Incident Energy (eV)

62-Sm-151

MAT 6246 Kerma non-elastic (all but mt2) 62-Sm-151
 Cross Section 957.9 To 9999. %

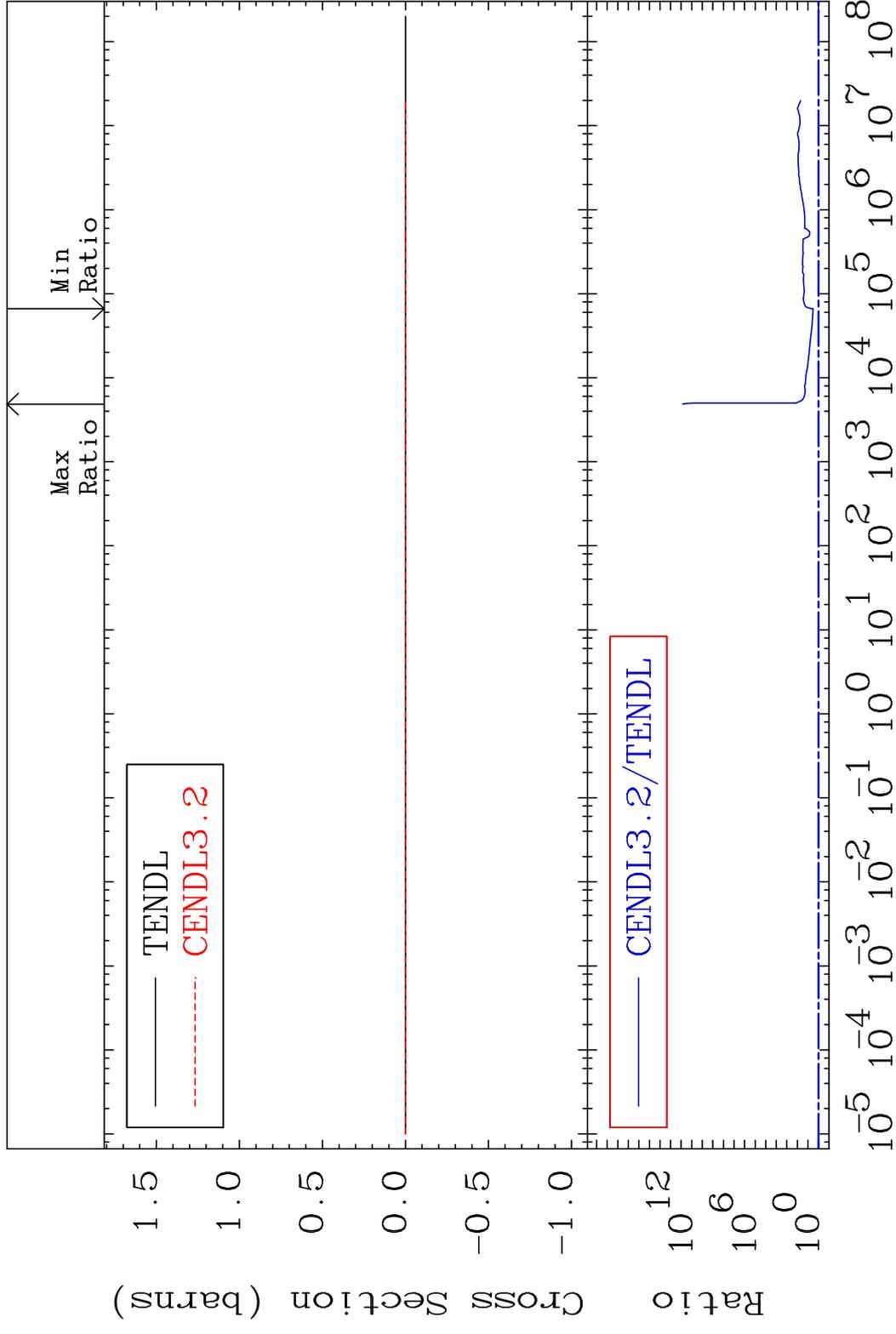


MAT 6246 Kerma inelastic (mt51-91) 62-Sm-151
 Cross Section 222.3 To 9999. %



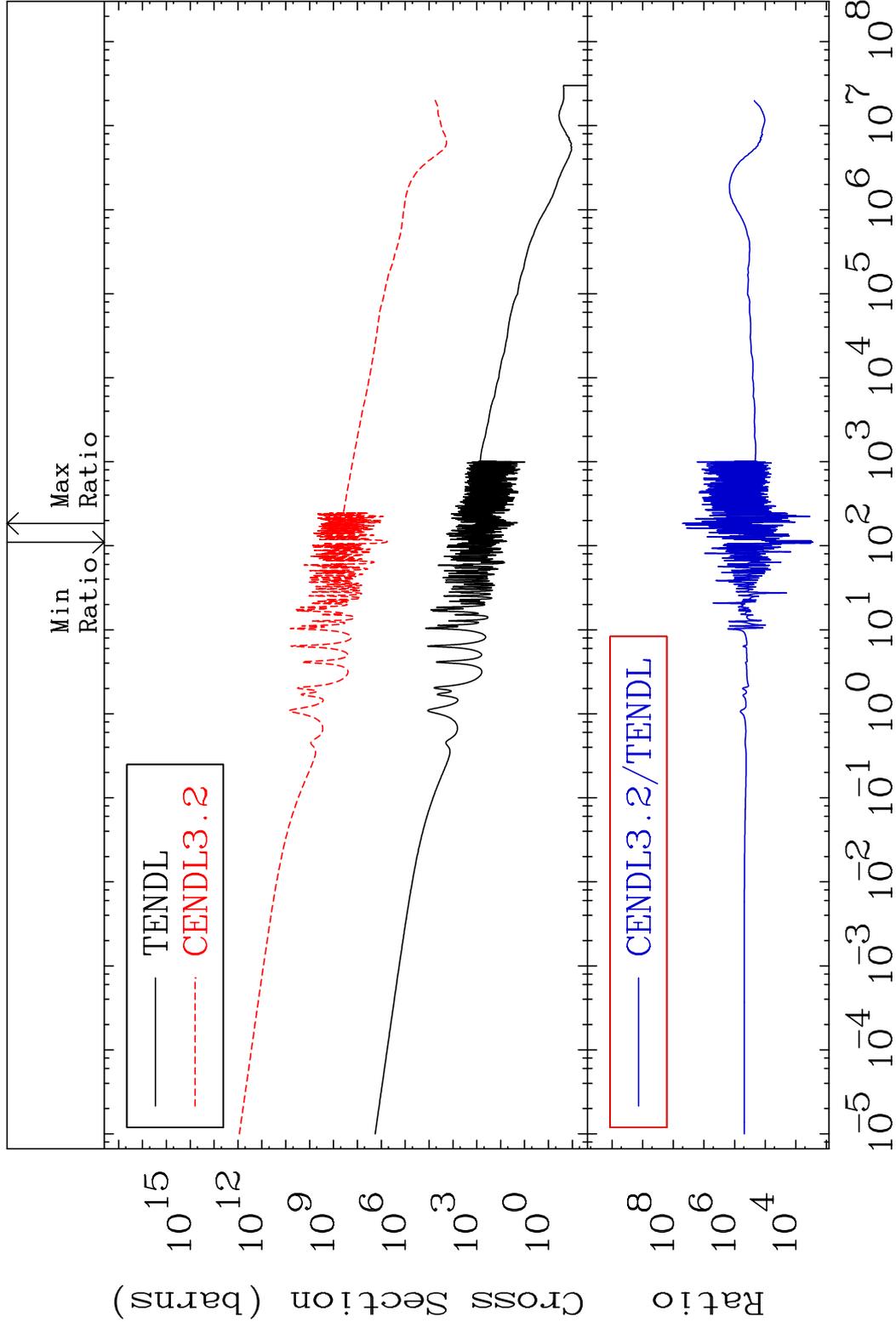
40 Incident Energy (eV) 62-Sm-151

MAT 6246 Kerma fission (mt18 or mt19-20-21-38) ^{62}Sm -151
 Cross Section 222.3 To 9999. %



MAT 6246

Kerma capture (mt102) 62-Sm-151
Cross Section 9999. To 9999. %

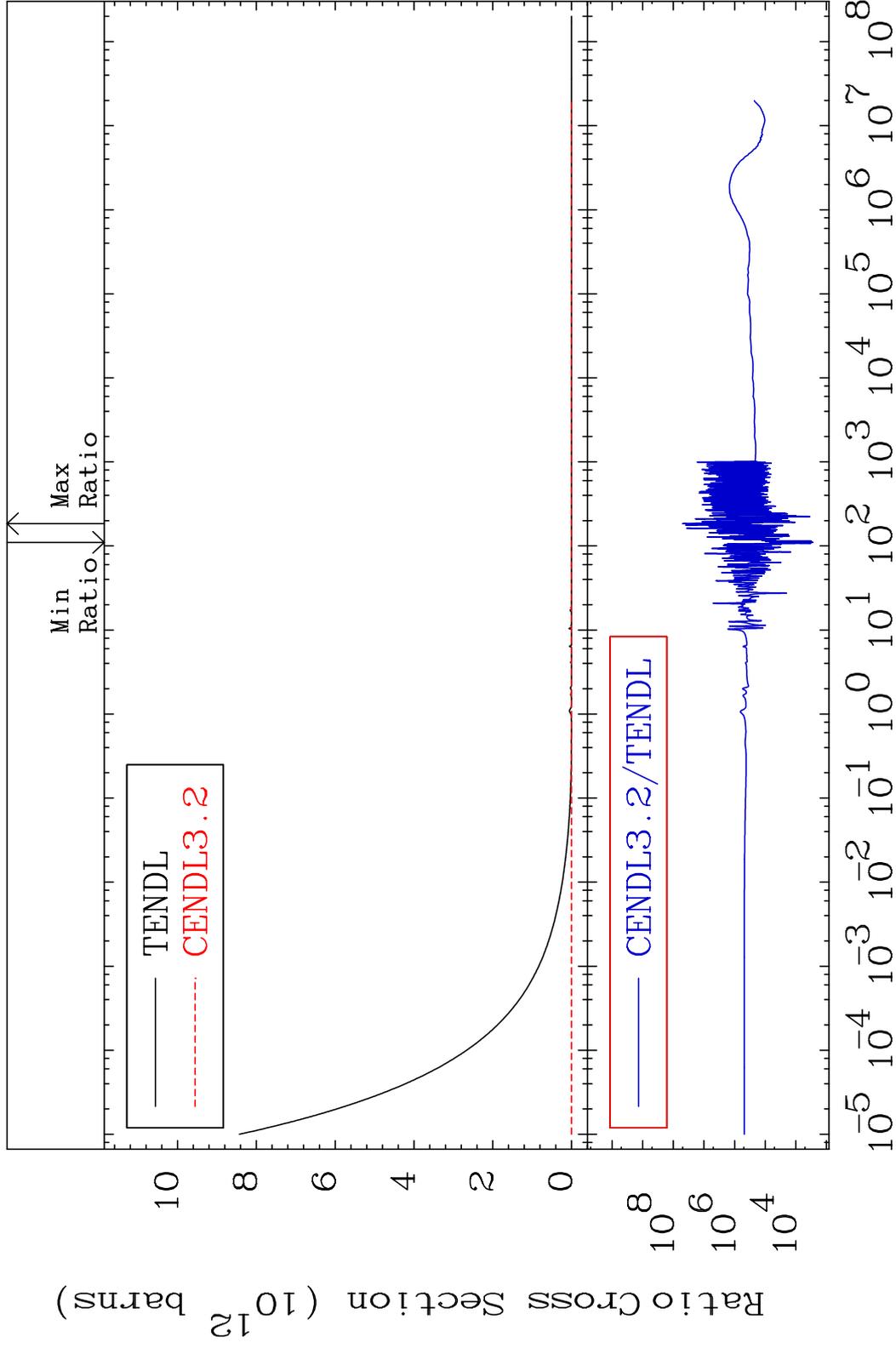


42

Incident Energy (eV)

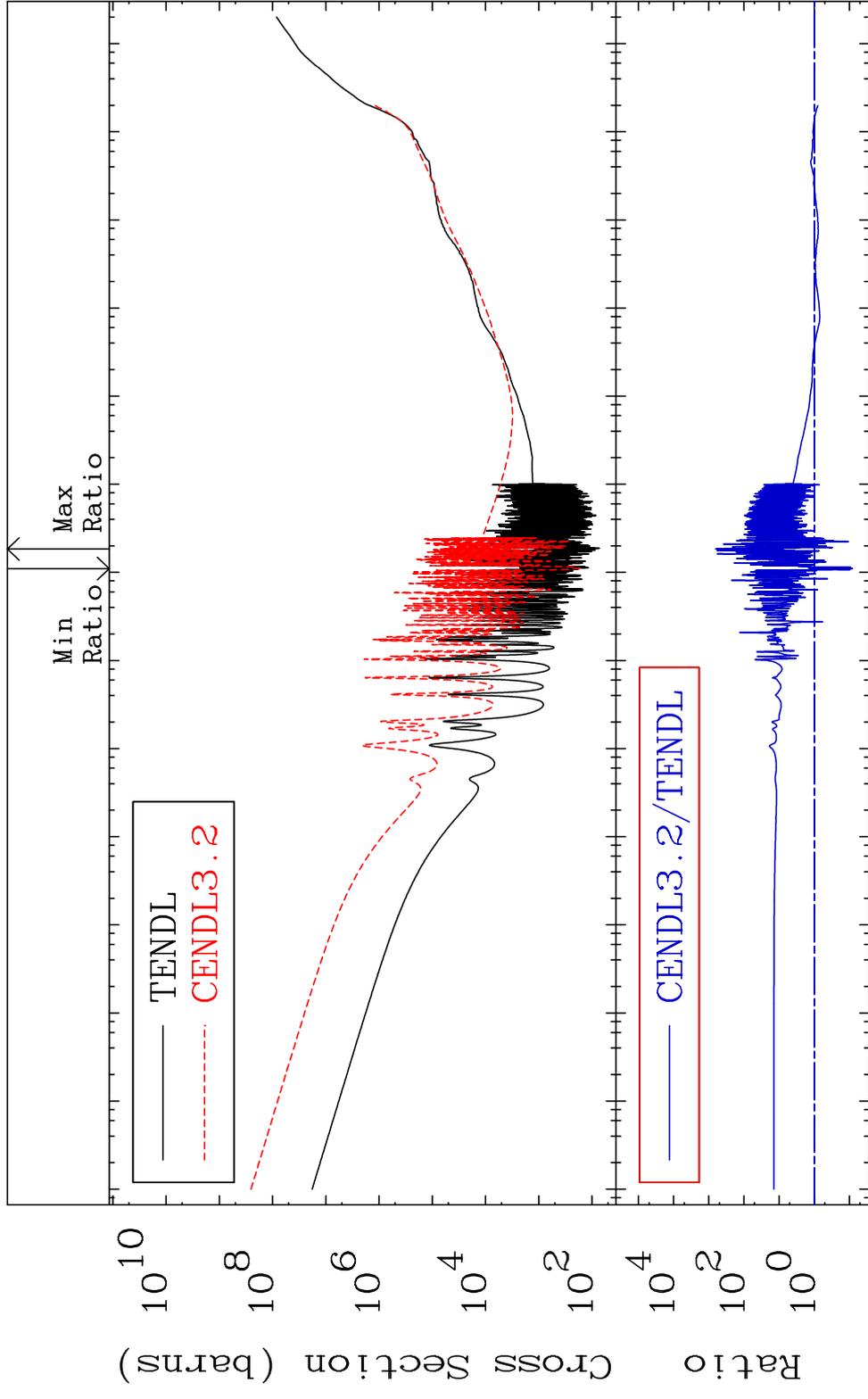
62-Sm-151

MAT 6246 Total photon (eV-barns) 62-Sm-151
 Cross Section 9999. To 9999. %



43 Incident Energy (eV) 62-Sm-151

MAT 6246 Total kinematic kerma (high limit) 62-Sm-151
 Cross Section -91.81 To 9999. %

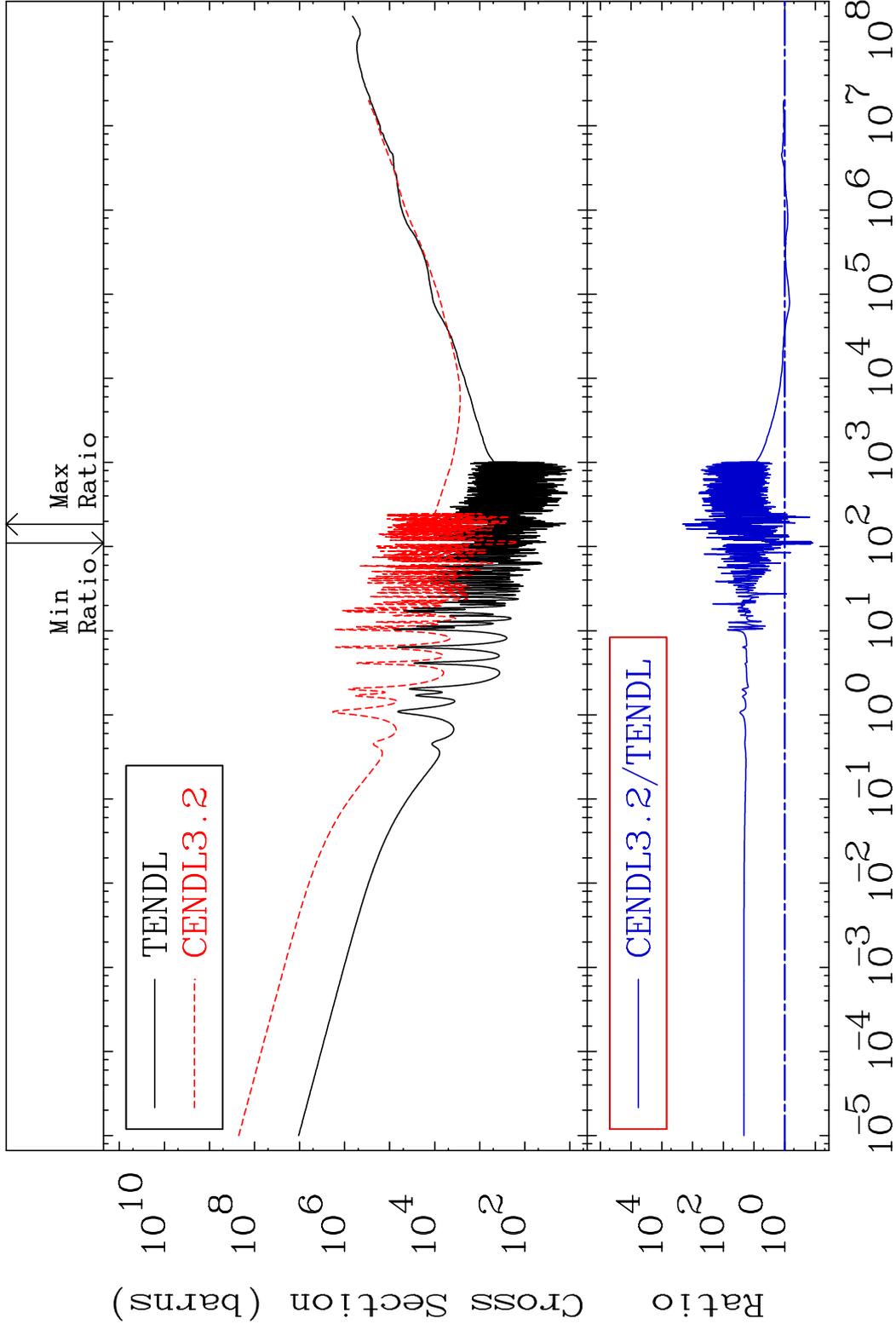


MAT 6246

Dpa total (eV-barns)

62-Sm-151

Cross Section -88.02 To 9999. %



45

Incident Energy (eV)

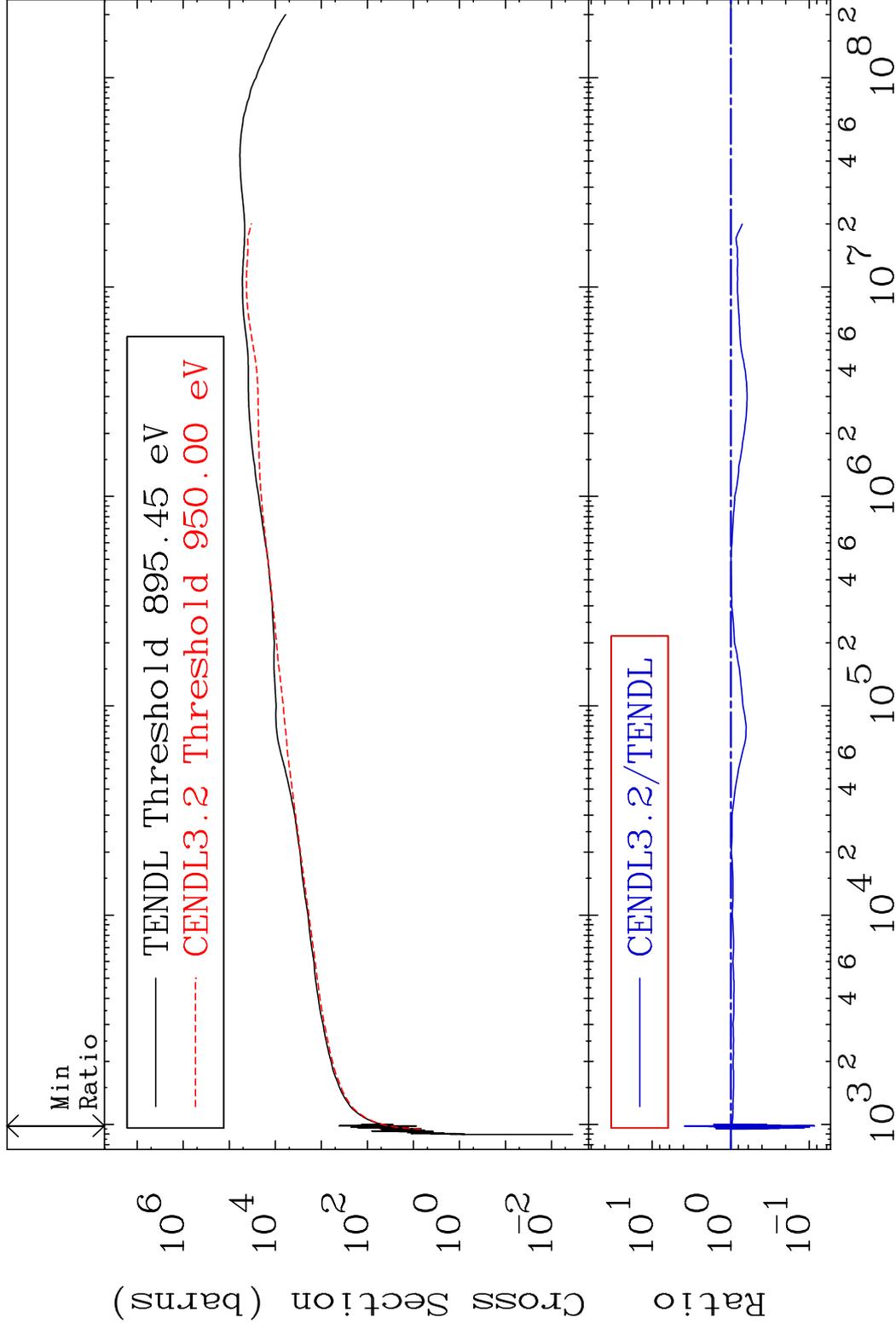
62-Sm-151

MAT 6246

Dpa elastic (mt2)

62-Sm-151

Cross Section -91.47 To 292.0 %

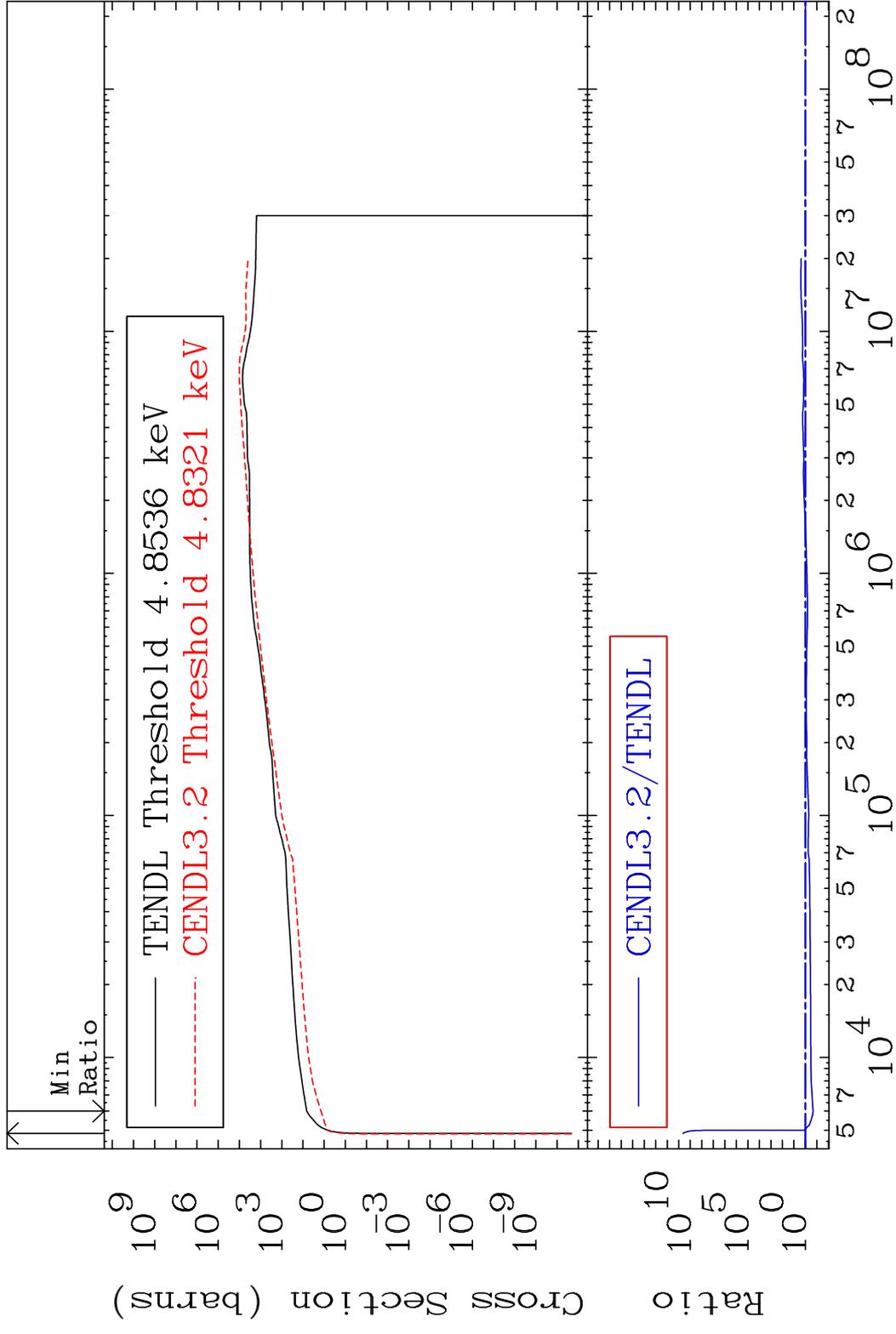


46

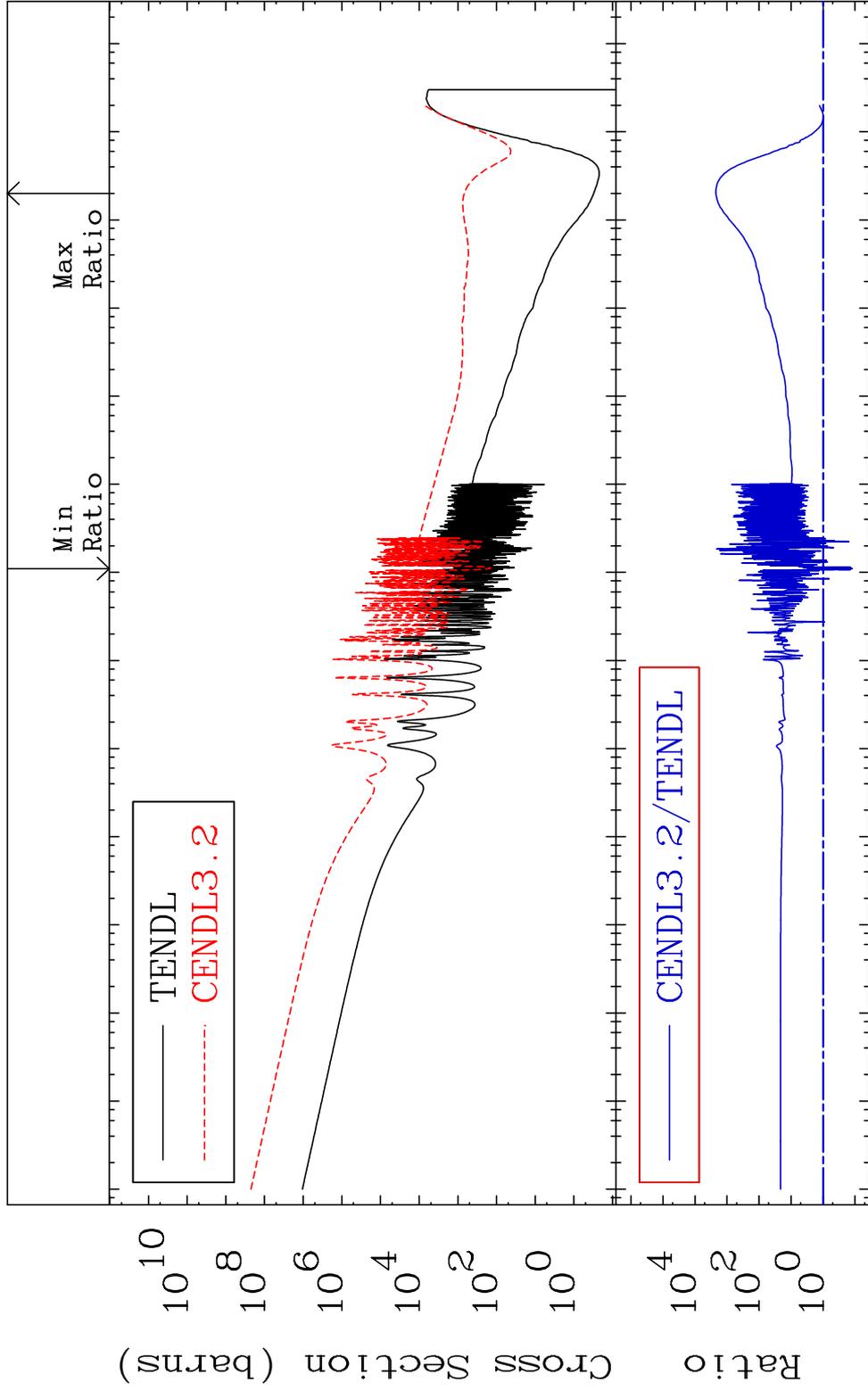
Incident Energy (eV)

62-Sm-151

MAT 6246 Dpa inelastic (mt51-91) 62-Sm-151
 Cross Section -78.66 To 9999. %



MAT 6246 Dpa disappearance (mt102 -120) 62-Sm-151
 Cross Section -88.02 To 9999. %

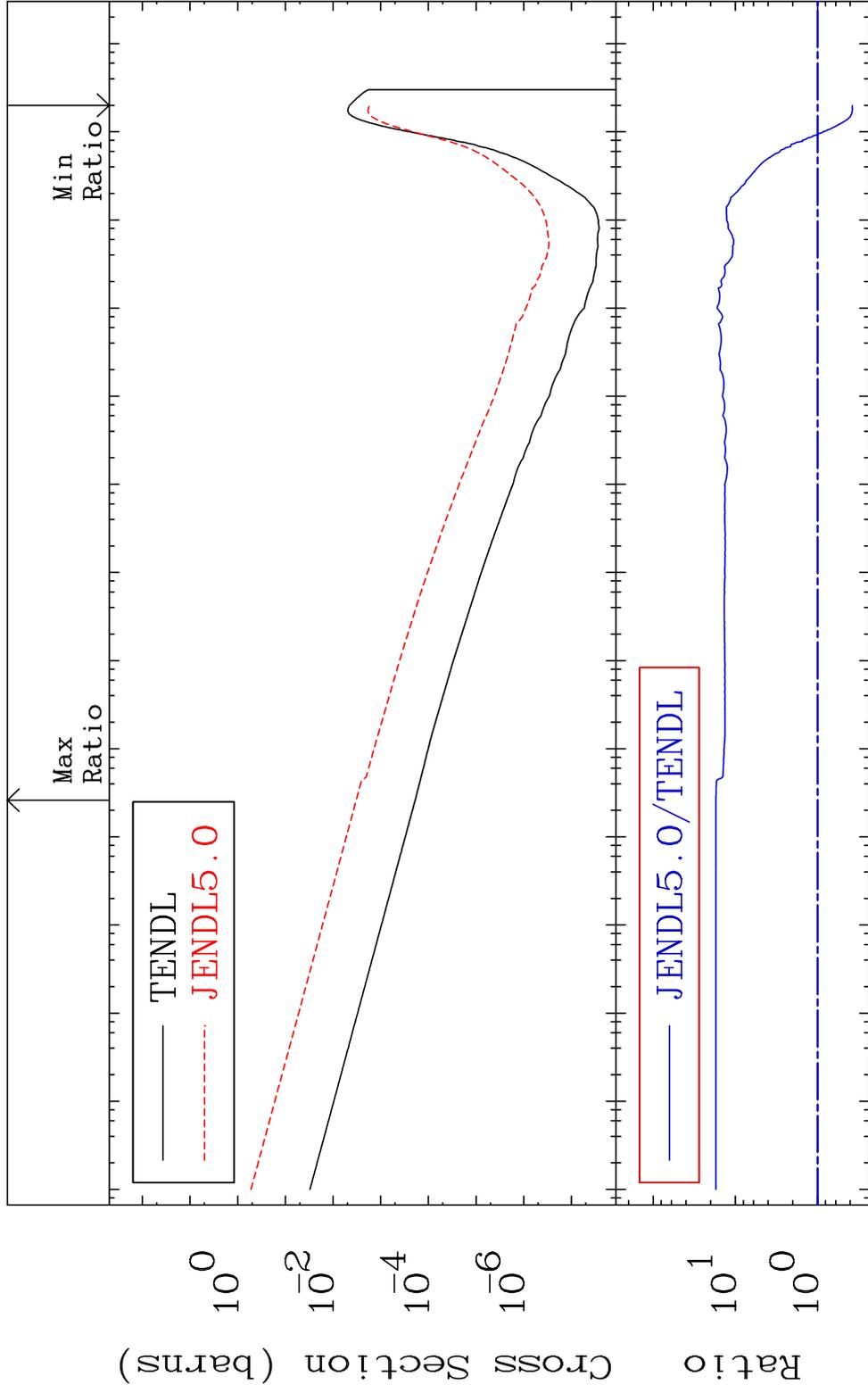


MAT 6246

(n, α)

62-Sm-151

Cross Section -62.48 To 1627. %



49

Incident Energy (eV)

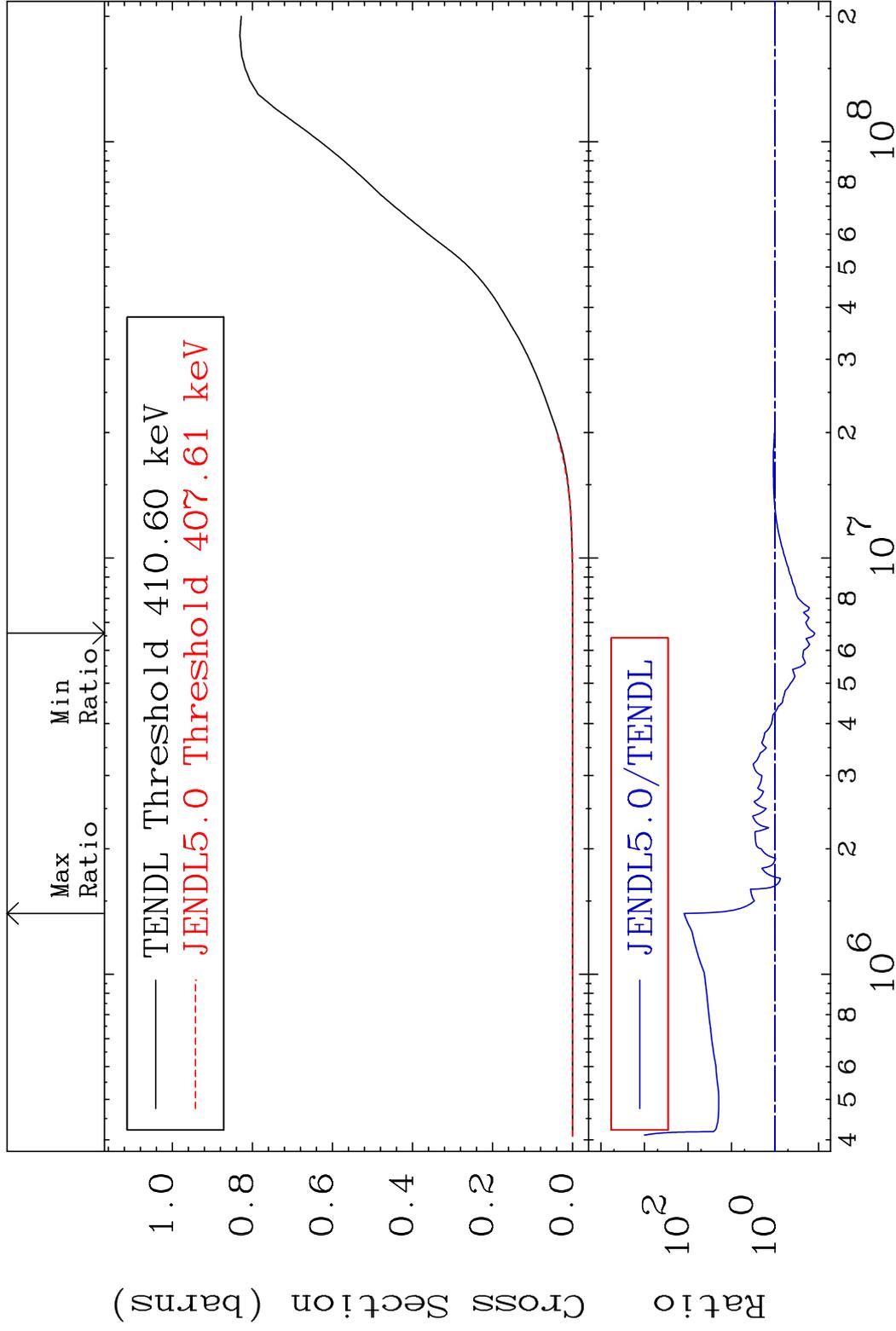
62-Sm-151

MAT 6246

Hydrogen Production

62-Sm-151

Cross Section -87.76 To 9999. %

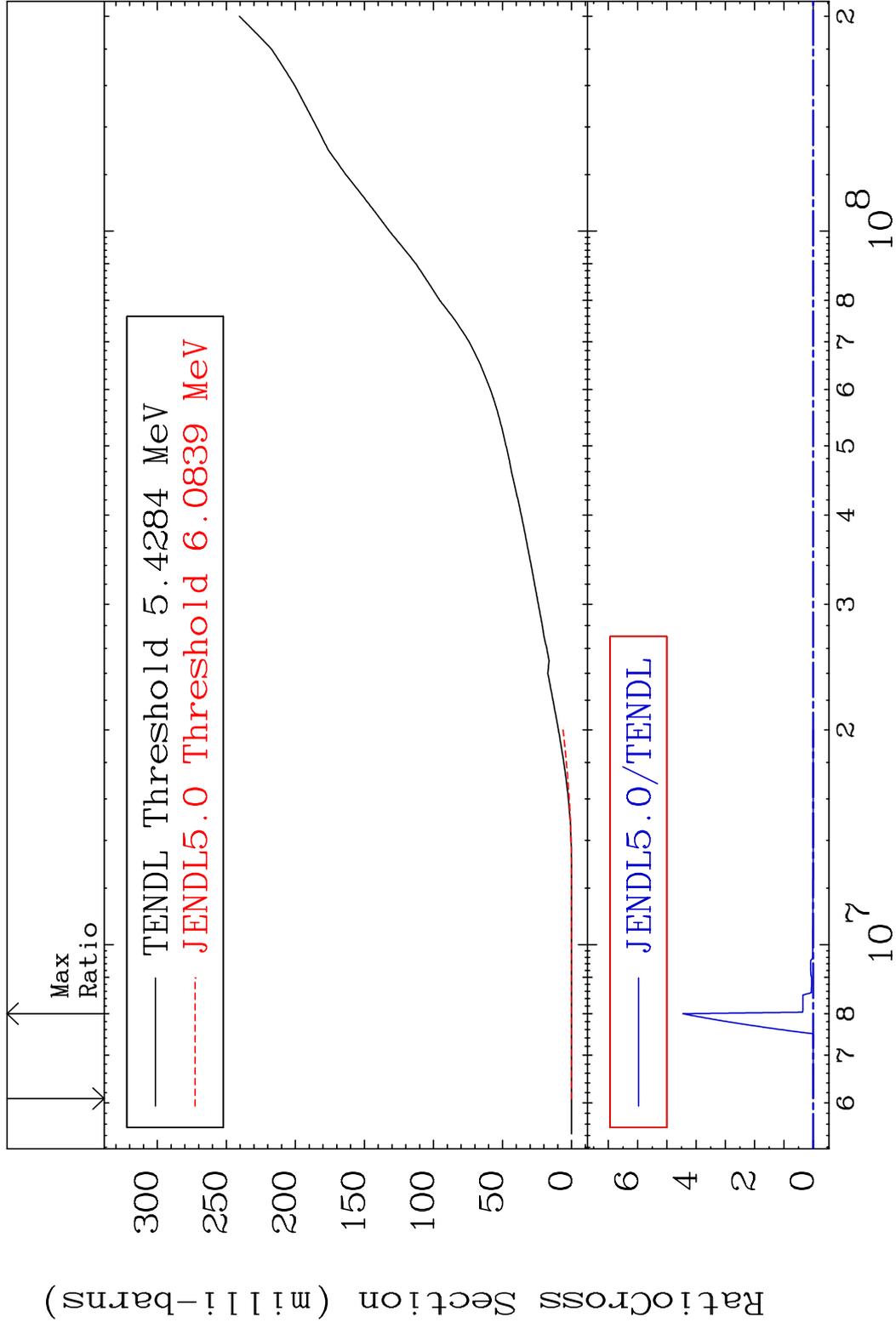


50

Incident Energy (eV)

62-Sm-151

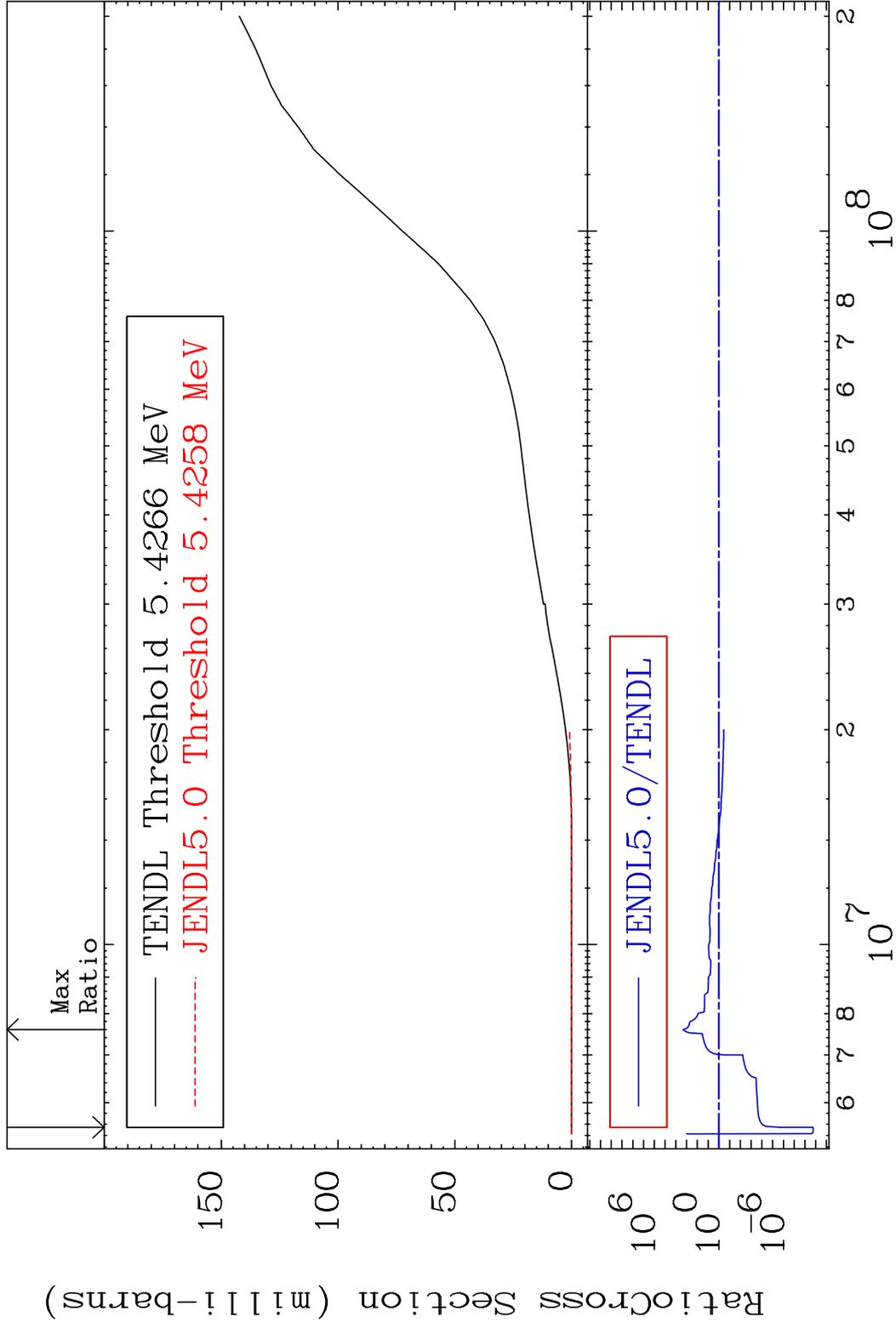
MAT 6246 Deuterium Production 62-Sm-151
 Cross Section -100.0 To 9999. %



MAT 6246

Tritium Production 62-Sm-151

Cross Section -100.0 To 9999. %

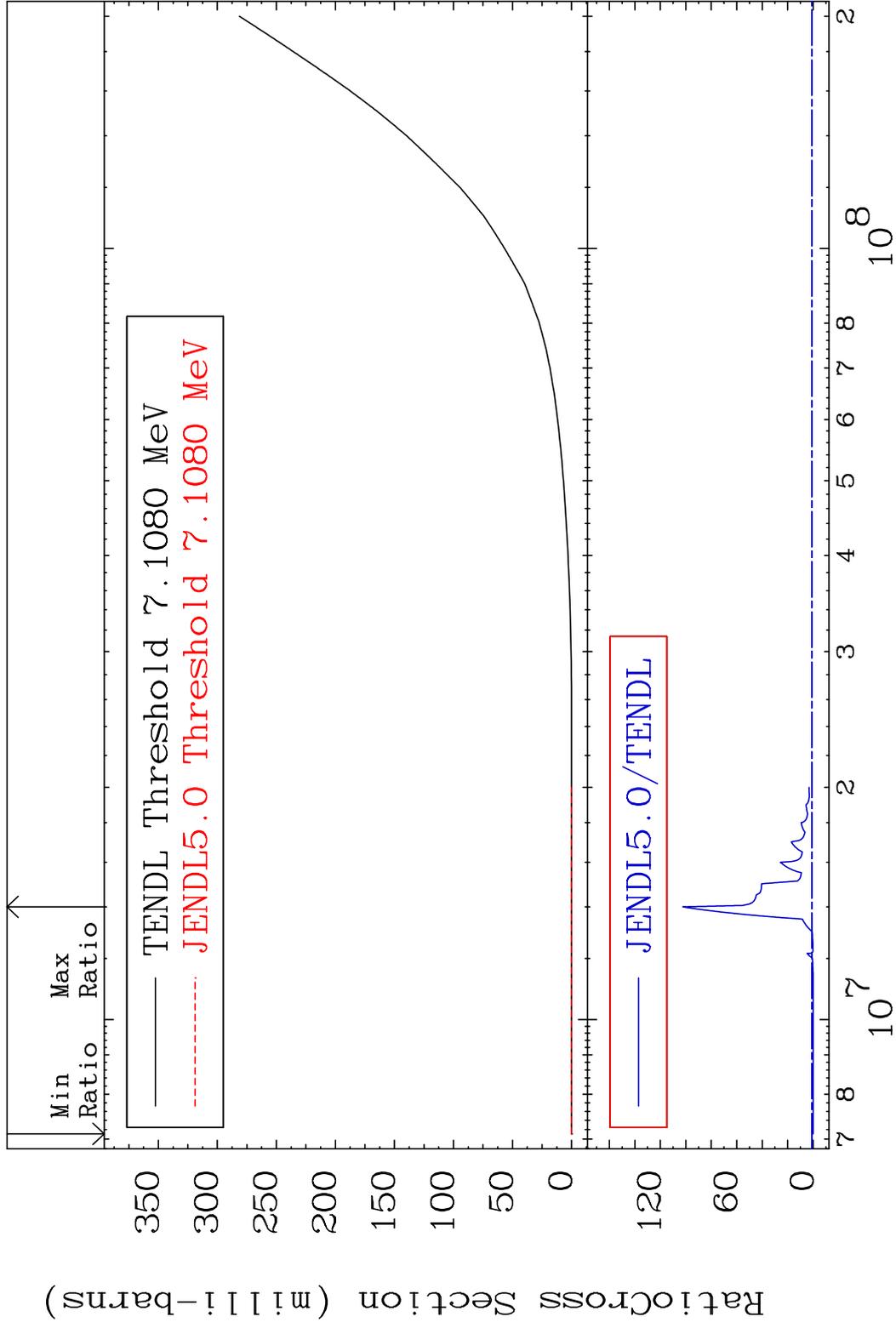


MAT 6246

He-3 Production

62-Sm-151

Cross Section -100.0 To 9999. %

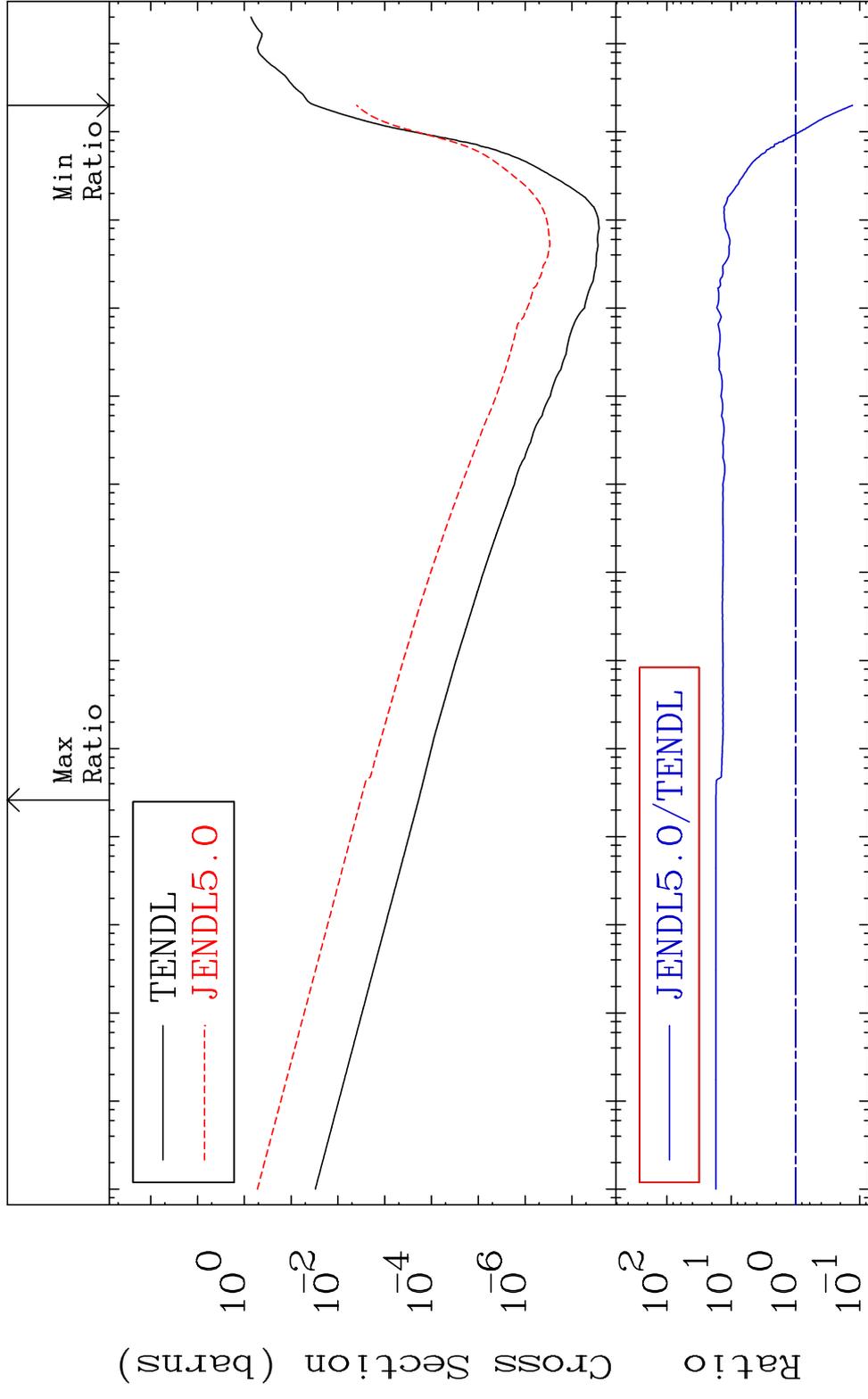


53

Incident Energy (eV)

62-Sm-151

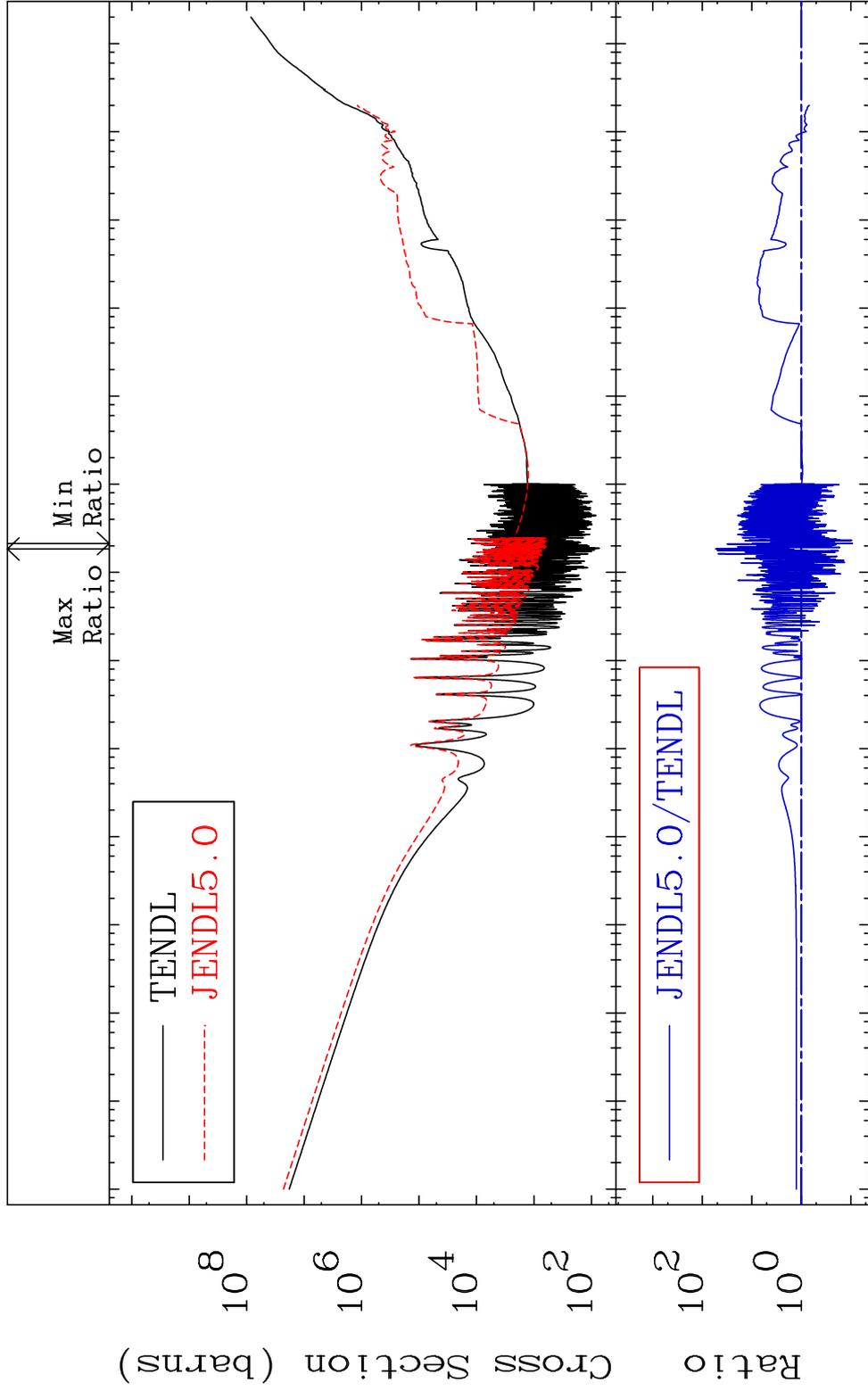
MAT 6246 He-4 Production 62-Sm-151
 Cross Section -87.00 To 1627. %



10⁰
 10⁻²
 10⁻⁴
 10⁻⁶
 10²
 10¹
 10⁰
 10⁻¹

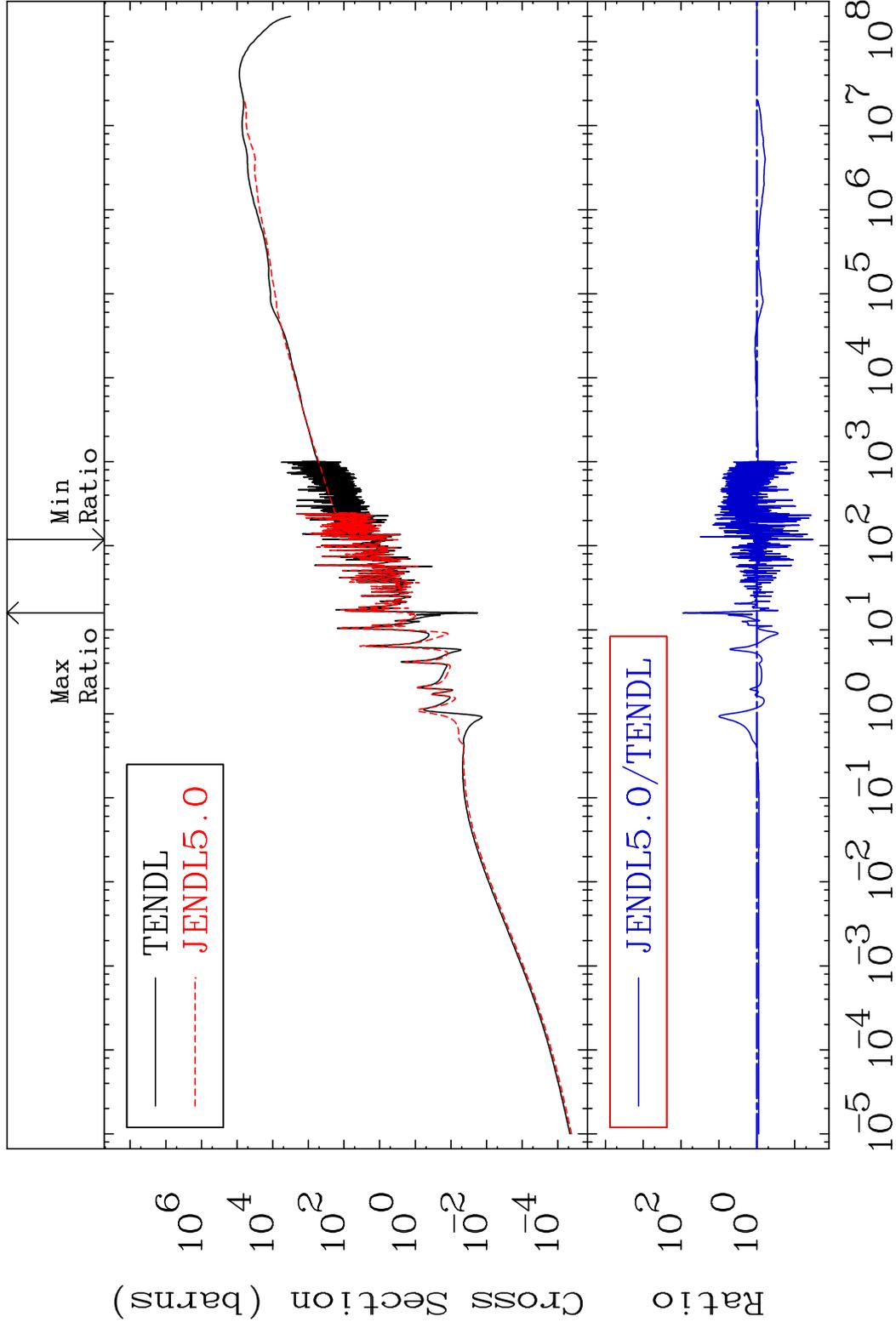
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

MAT 6246 Kerma total (eV-barns) 62-Sm-151
 Cross Section -90.75 To 5228. %



MAT 6246

Kerma elastic Cross Section -96.74 To 8907. %
62-Sm-151

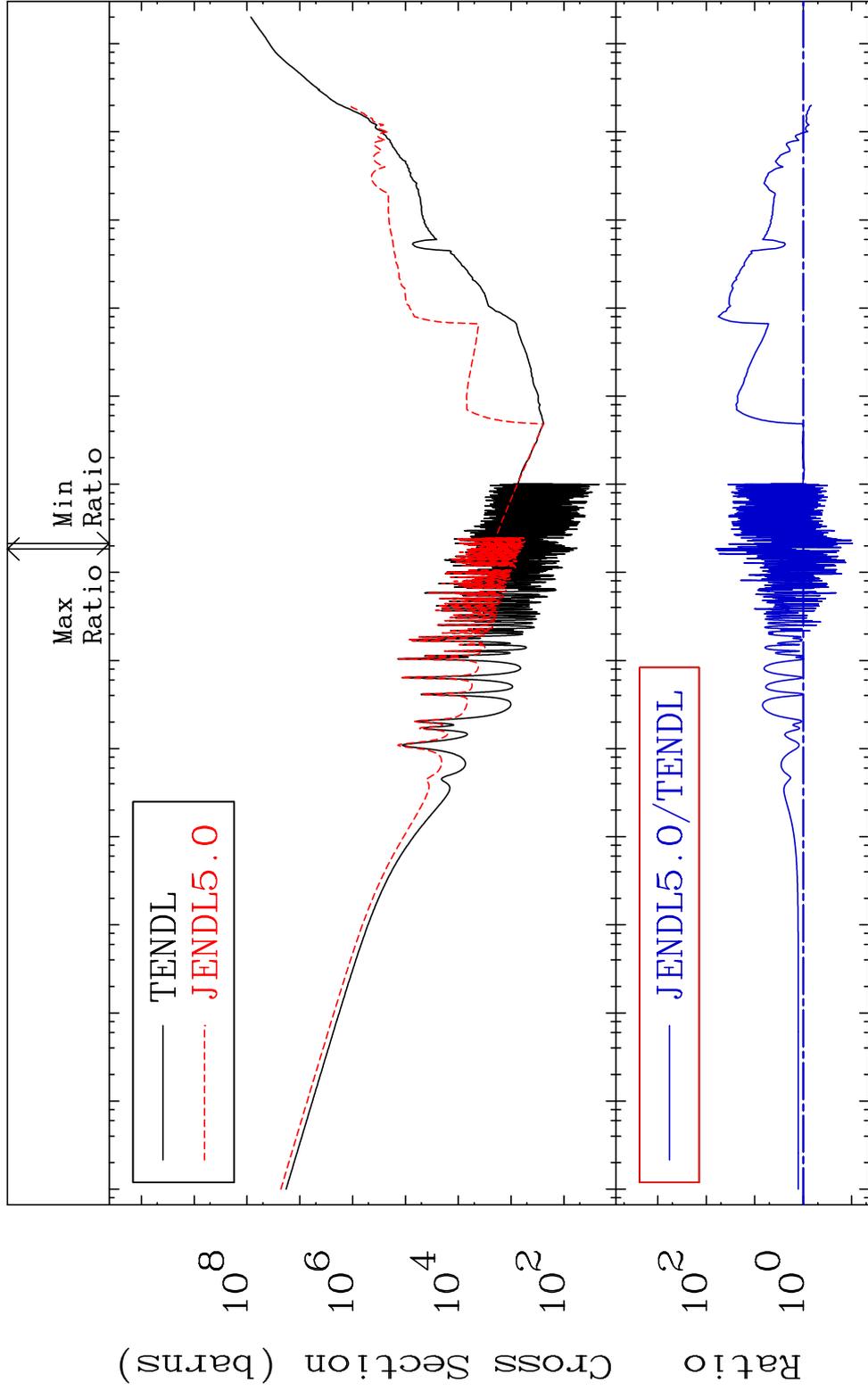


56

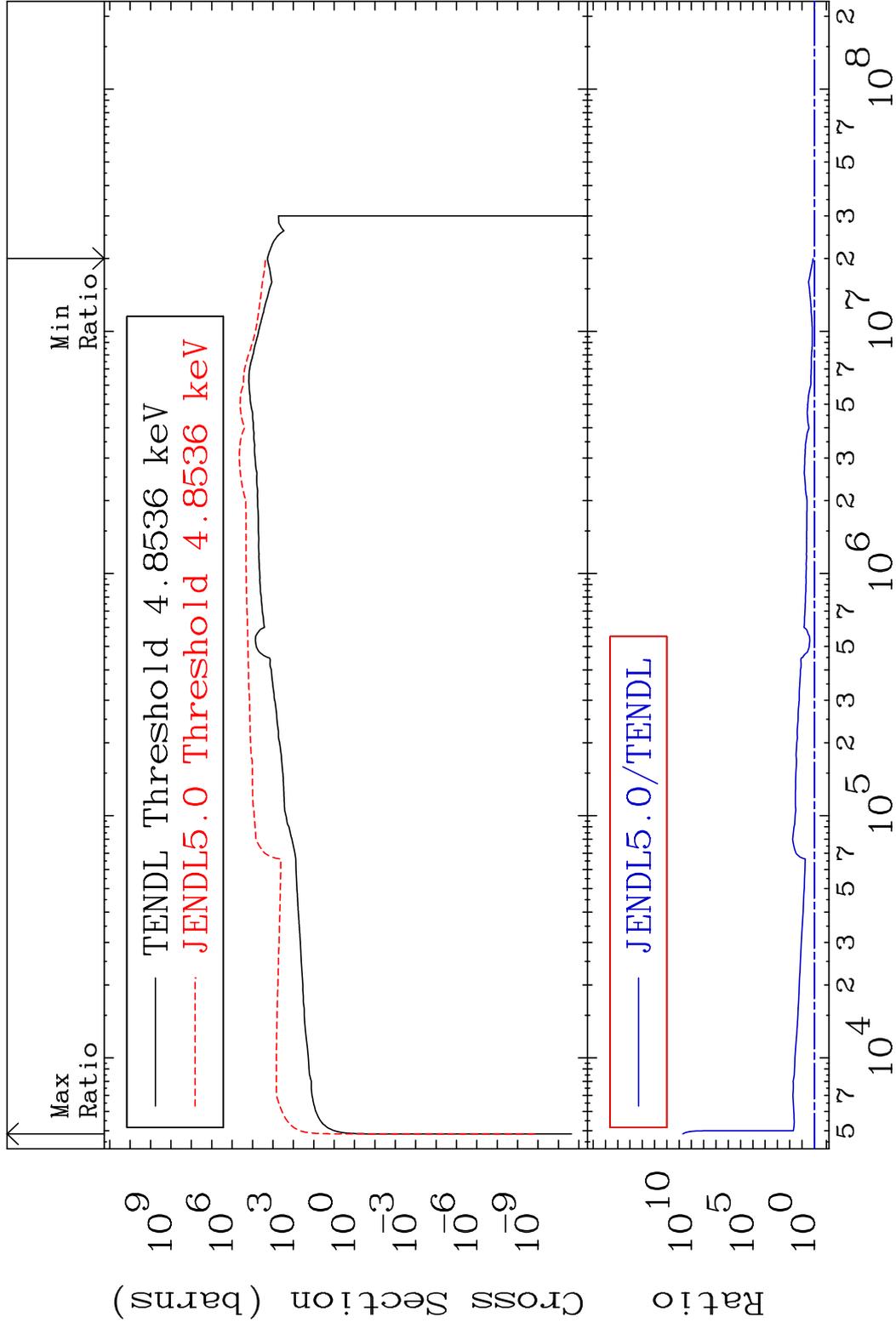
Incident Energy (eV)

62-Sm-151

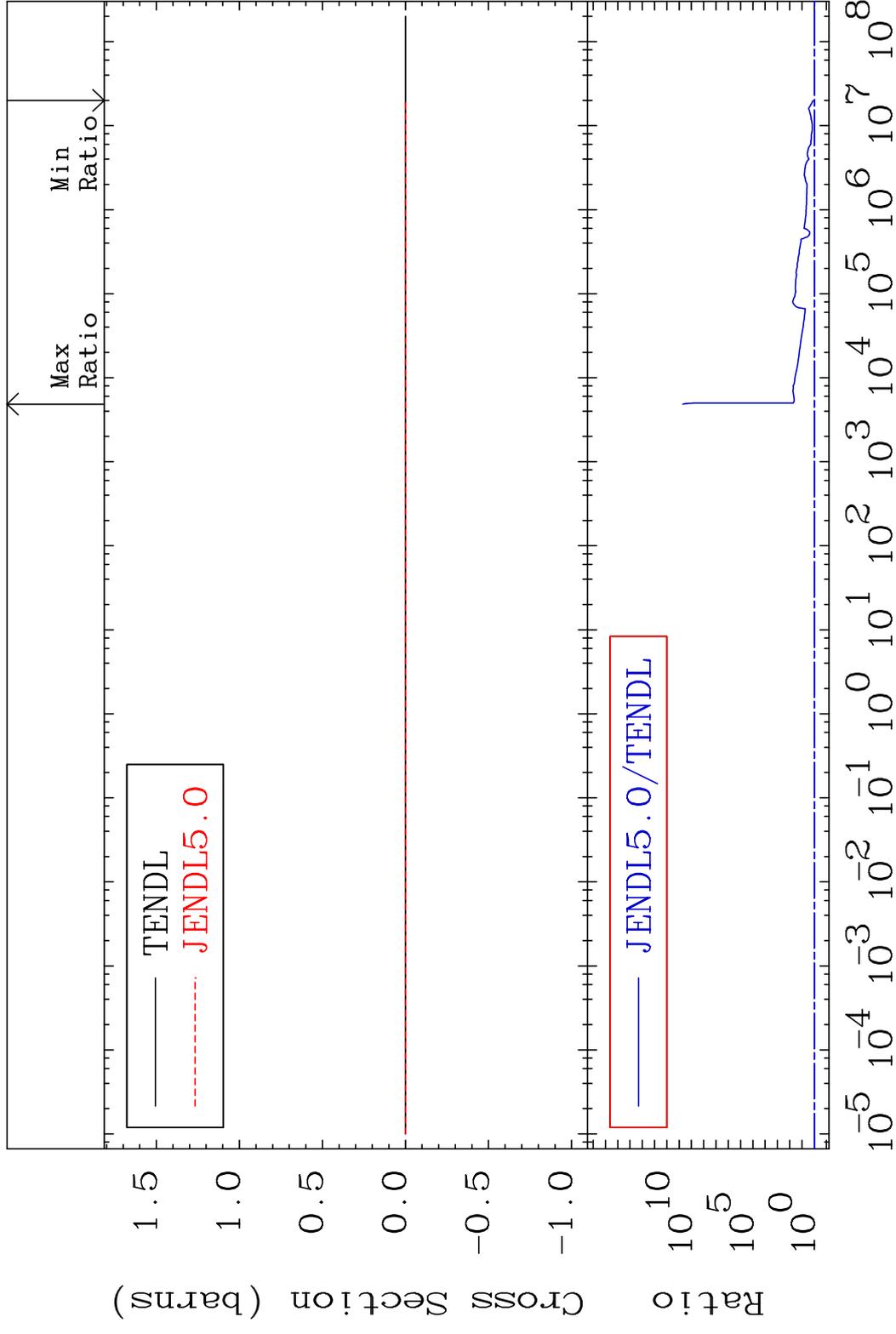
MAT 6246 Kerma non-elastic (all but mt2) 62-Sm-151
 Cross Section -90.41 To 6237. %



MAT 6246 Kerma inelastic (mt51-91) 62-Sm-151
 Cross Section 22.62 To 9999. %

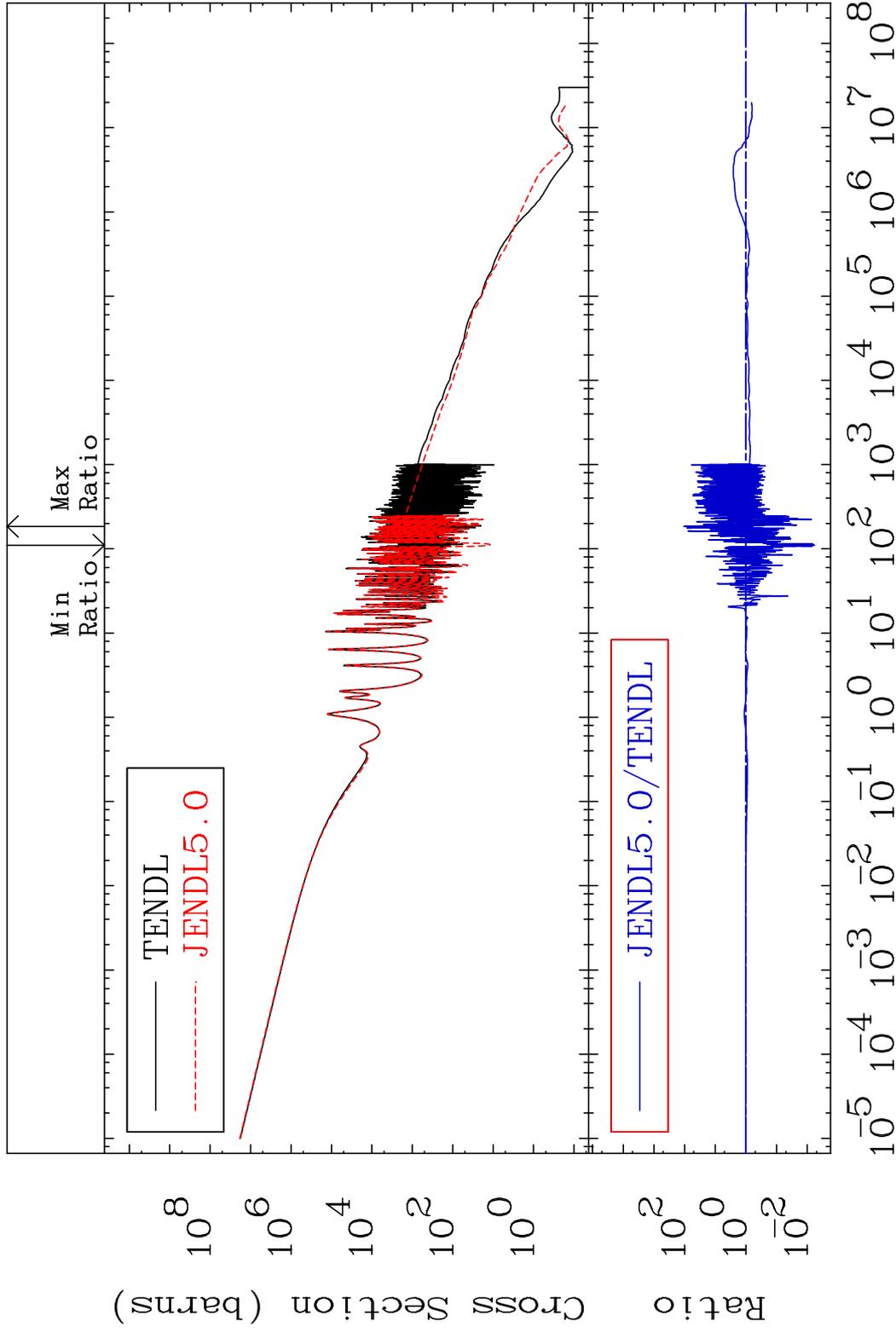


MAT 6246 Kerma fission (mt18 or mt19-20-21-38) 62-Sm-151
 Cross Section 22.62 To 9999. %



MAT 6246

Kerma capture (mt102) 62-Sm-151
Cross Section -99.43 To 9999. %



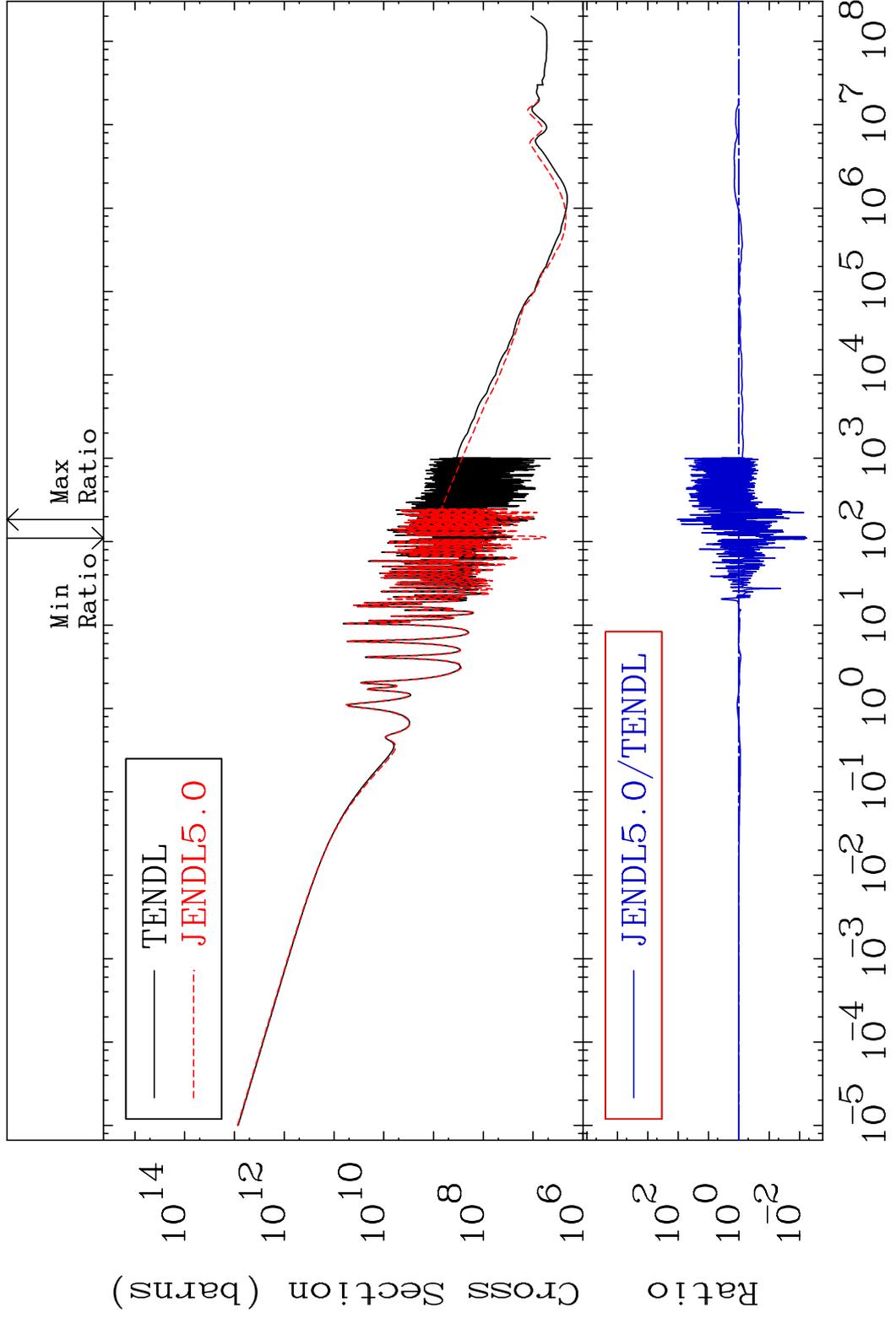
60

Incident Energy (eV)

62-Sm-151

MAT 6246

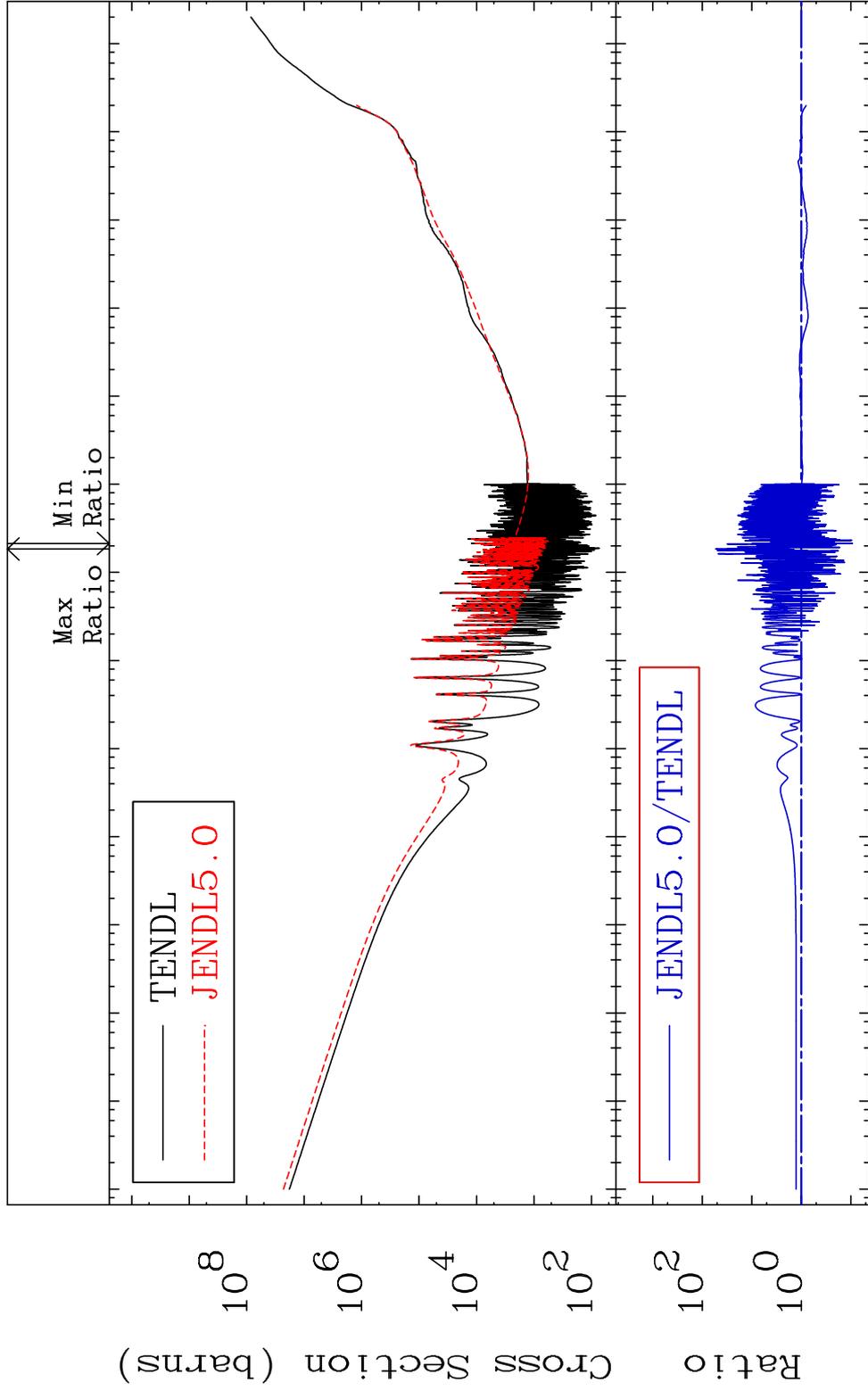
Total photon (eV-barns) 62-Sm-151
Cross Section -99.43 To 9999. %



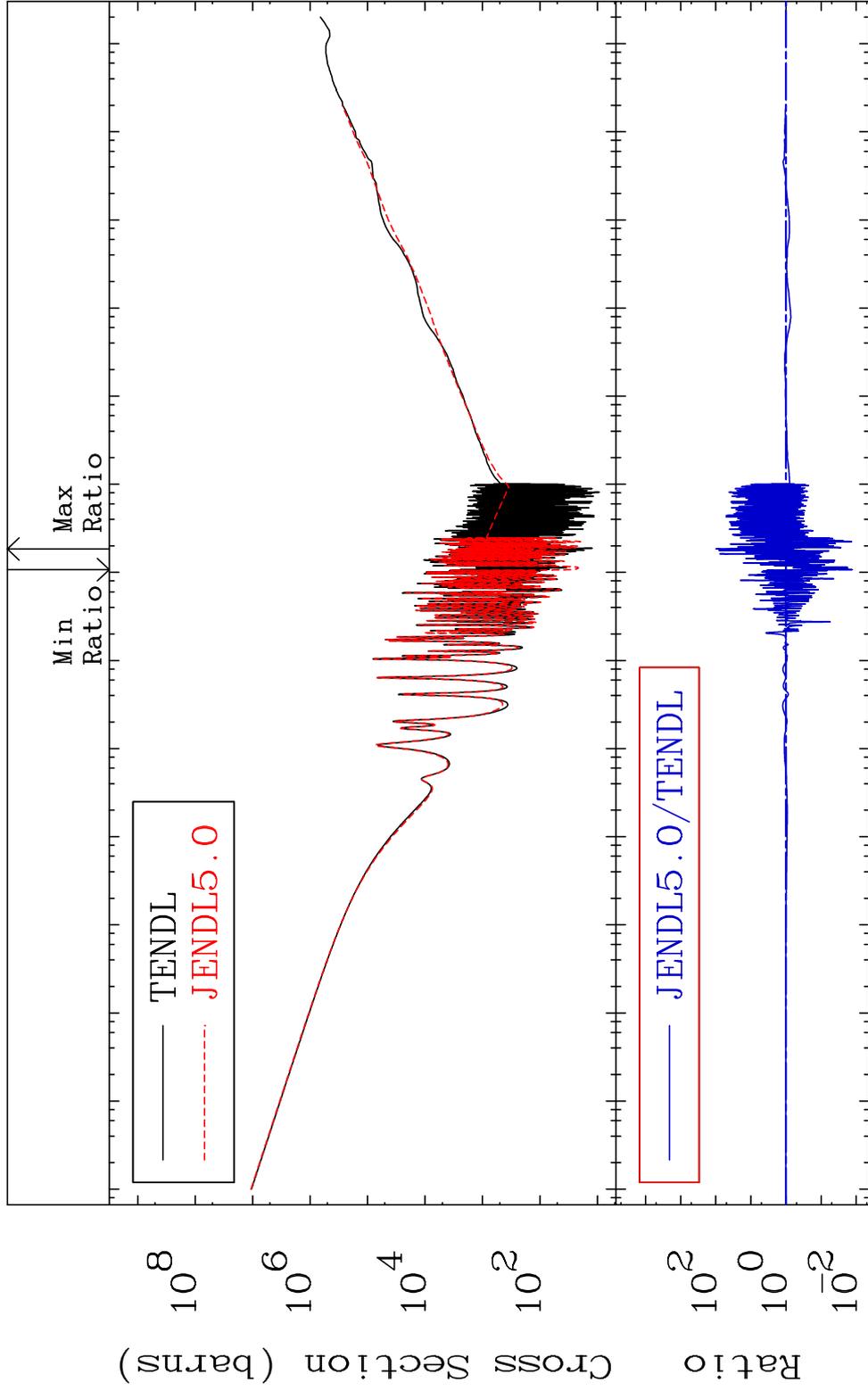
61

Incident Energy (eV) 62-Sm-151

MAT 6246 Total kinematic kerma (high limit) 62-Sm-151
 Cross Section -90.75 To 5217. %



MAT 6246 Dpa total (eV-barns) 62-Sm-151
Cross Section -98.72 To 9822. %



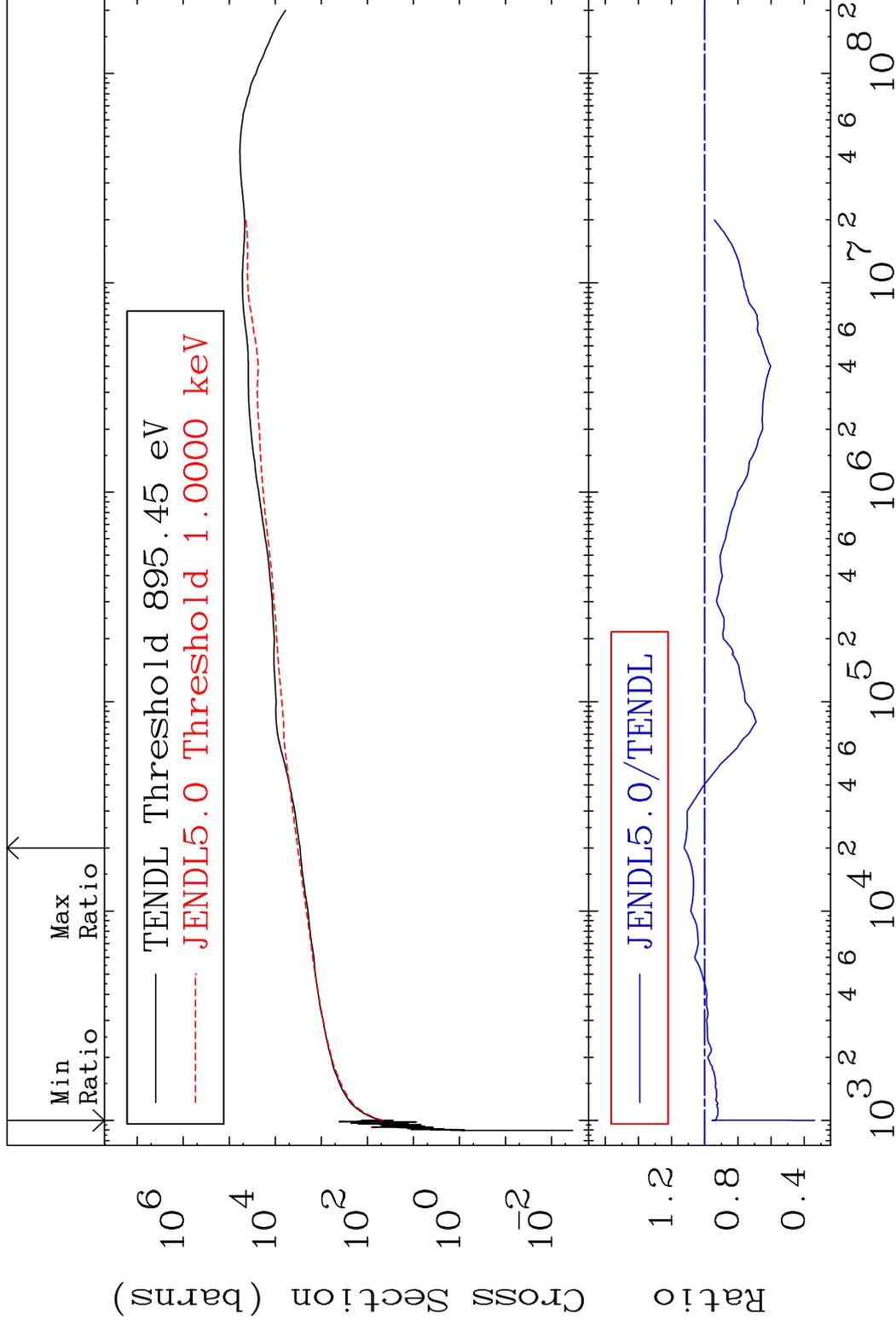
63 Incident Energy (eV) 62-Sm-151

MAT 6246

Dpa elastic (mt2)

62-Sm-151

Cross Section -66.26 To 12.48 %

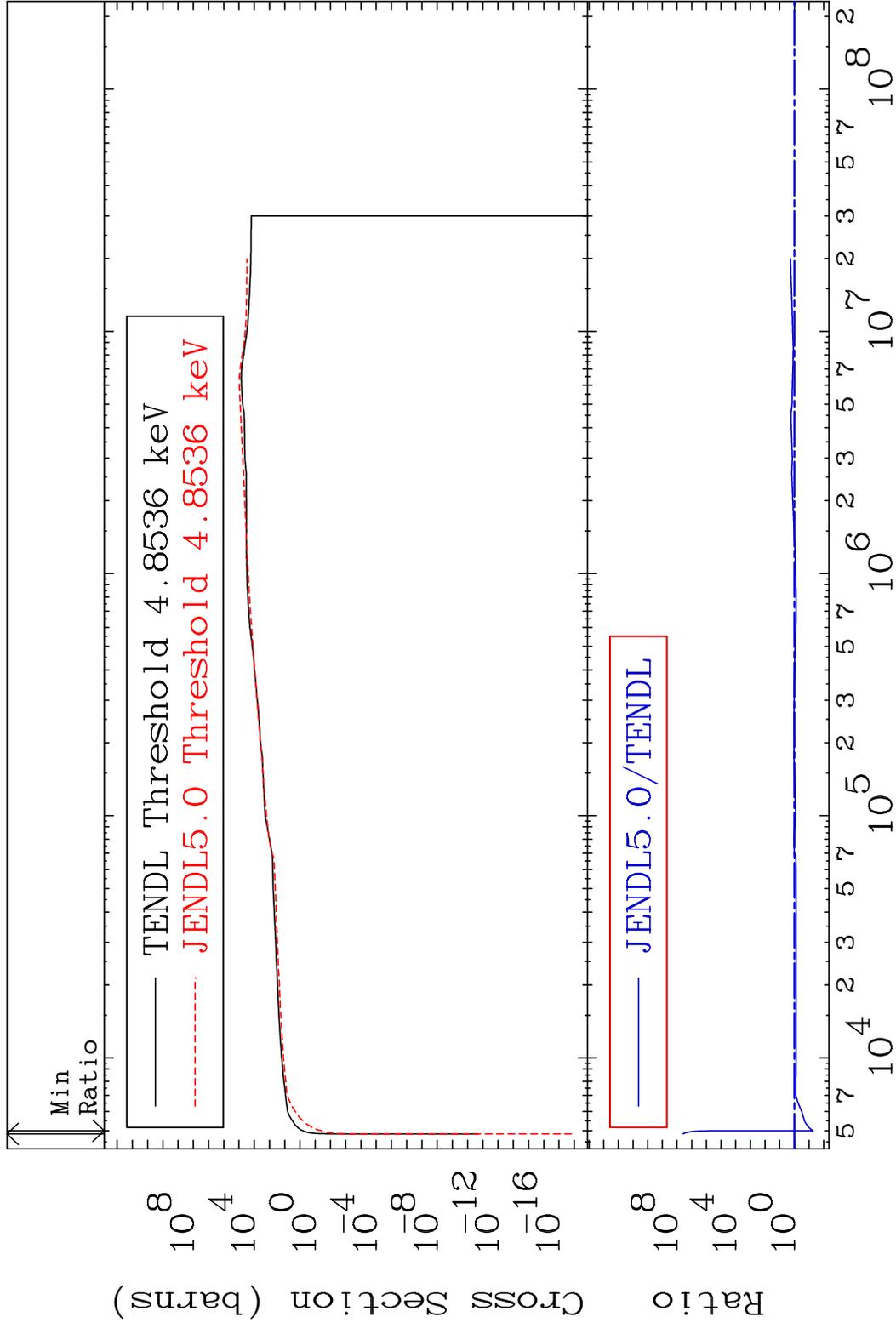


64

Incident Energy (eV)

62-Sm-151

MAT 6246 Dpa inelastic (mt51-91) 62-Sm-151
 Cross Section -94.76 To 9999. %



MAT 6246 Dpa disappearance (mt102 -120) 62-Sm-151
 Cross Section -98.72 To 9822. %

