

Program Complot
(Version 2021-1)

by

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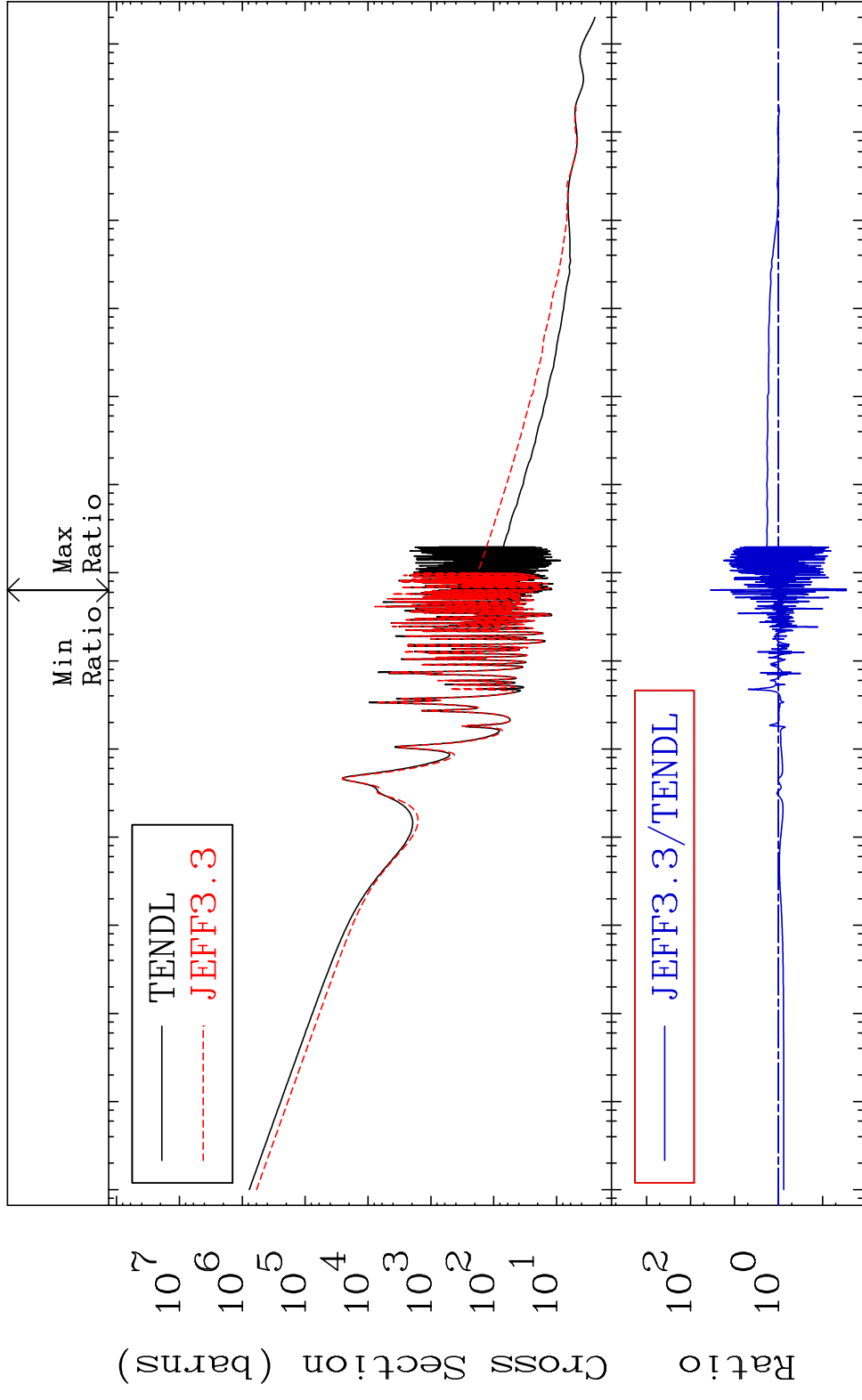
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6325

Total Cross Section -97.12 To 3379. %

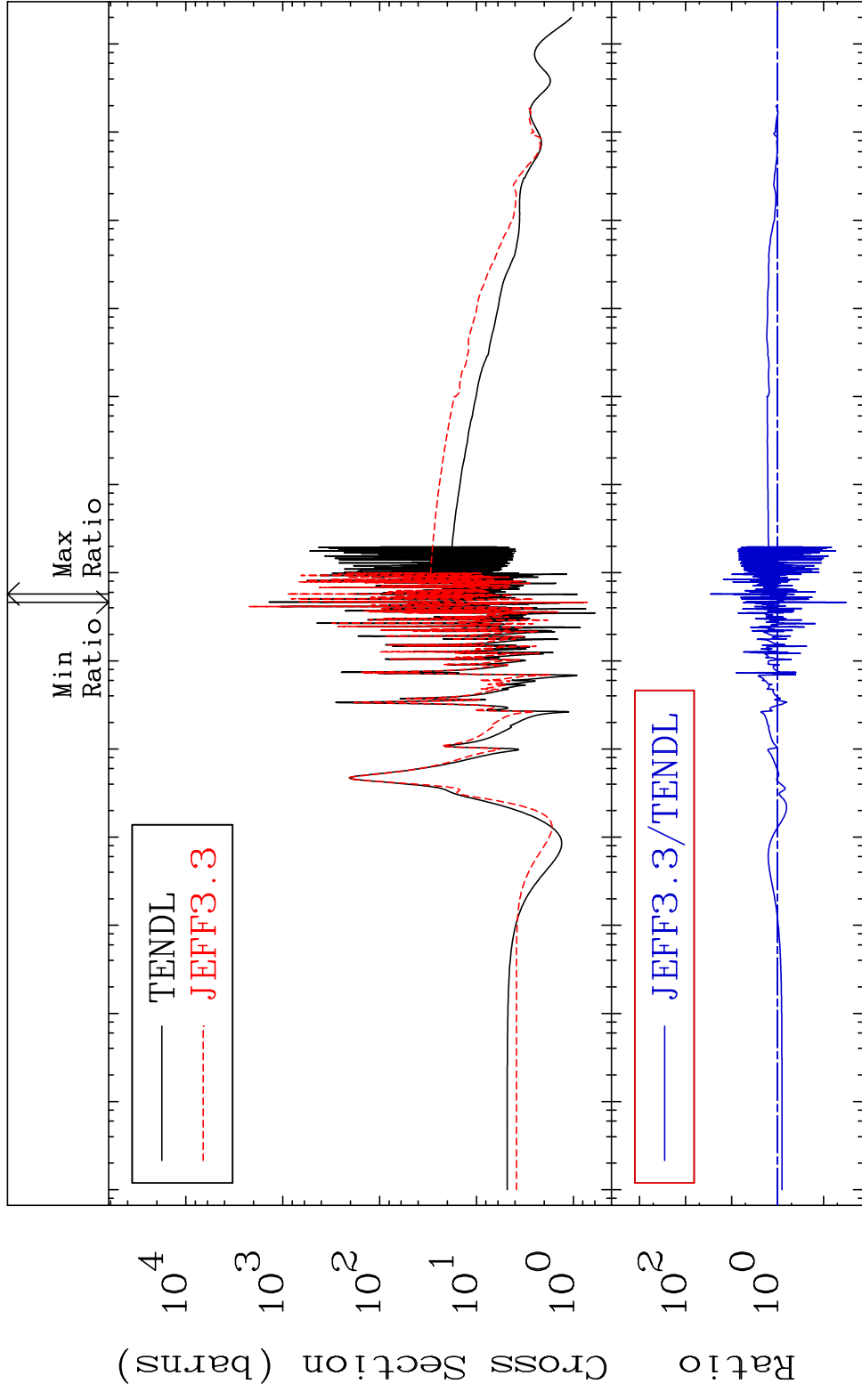
63-Eu-151



1 Incident Energy (eV) 63-Eu-151

MAT 6325

Elastic Cross Section -96.80 To 2735. %
63-Eu-151



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

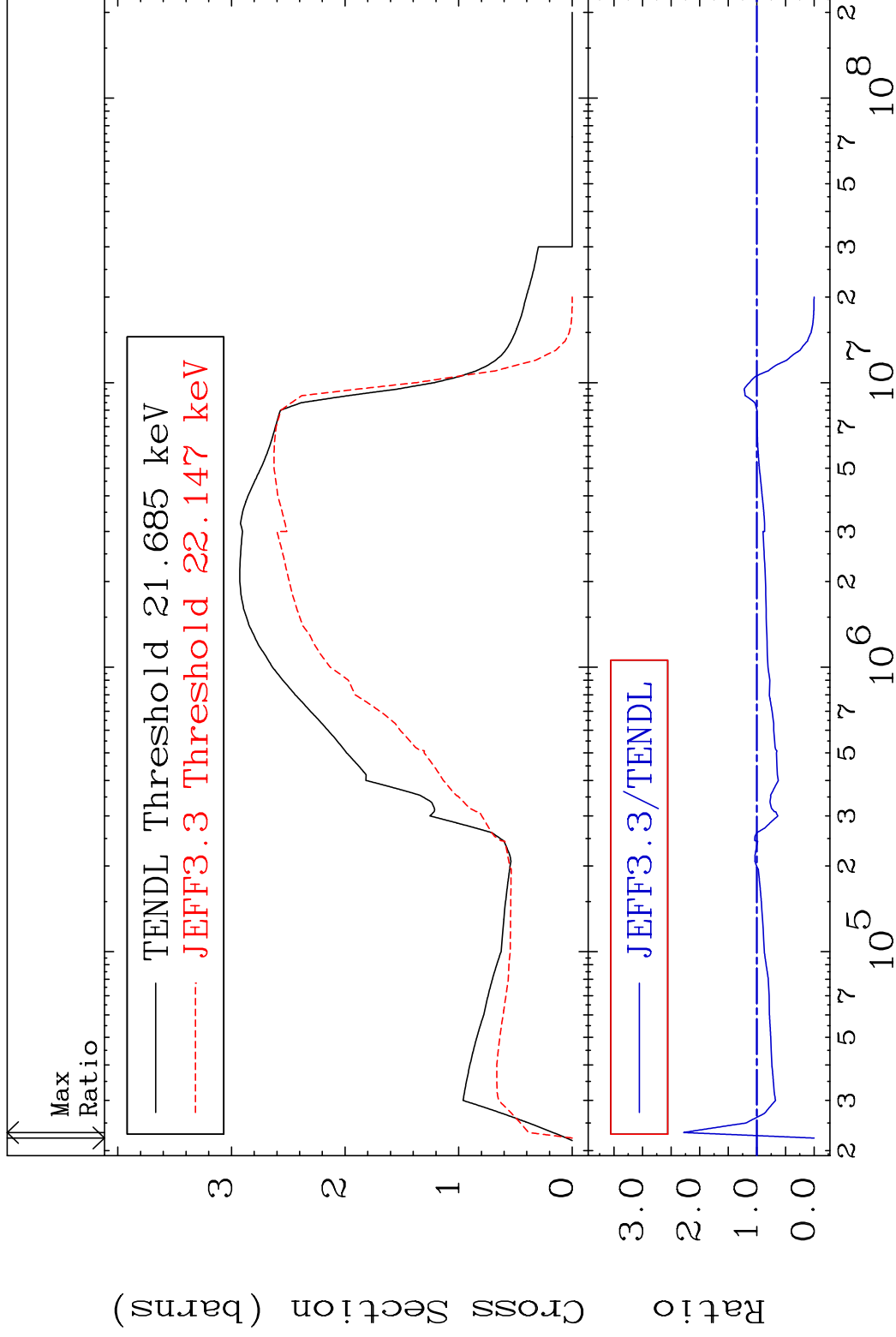
2 Incident Energy (eV) 63-Eu-151

MAT 6325

Inelastic

63-Eu-151

Cross Section -100.0 To 128.1 %



3

Incident Energy (eV)

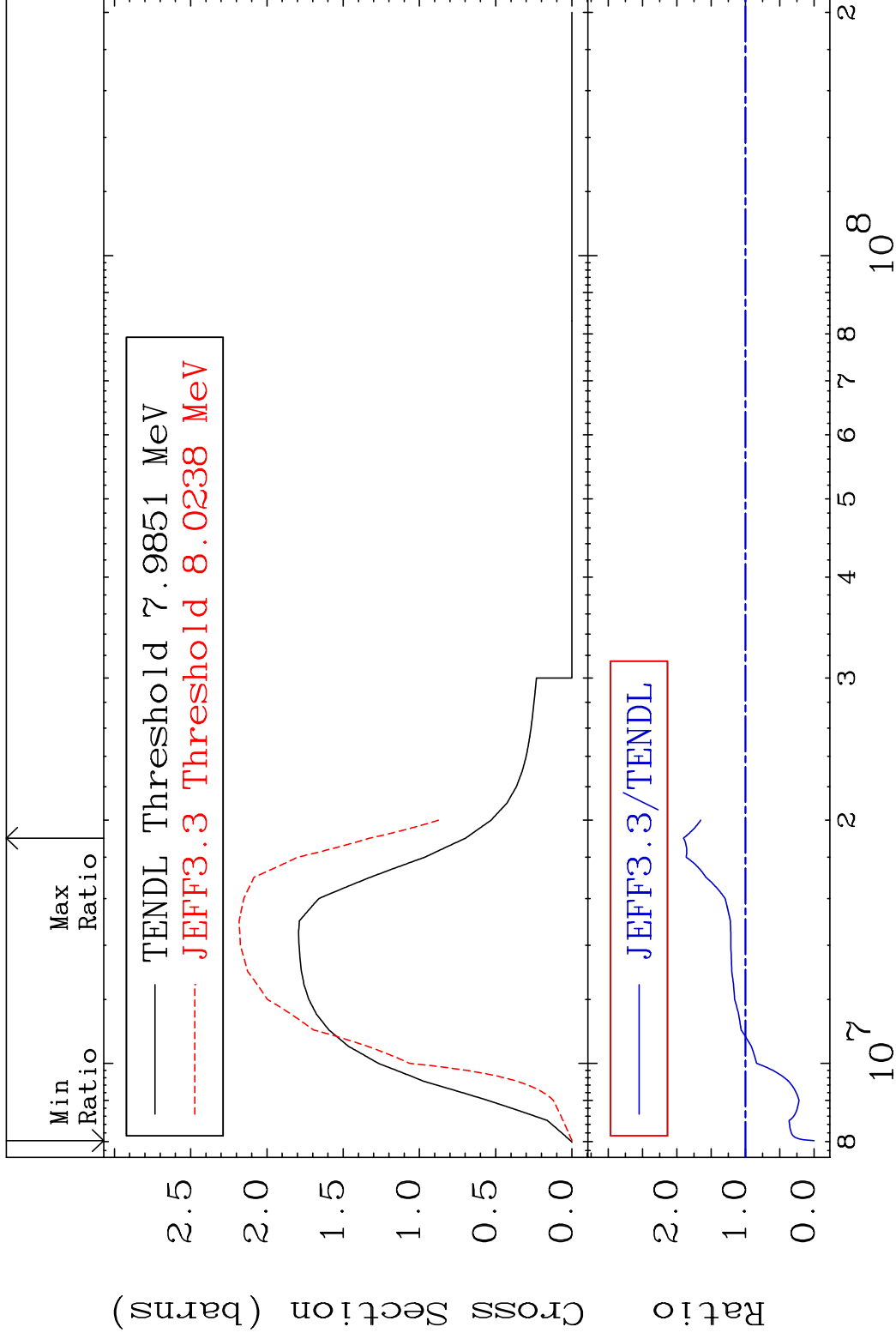
63-Eu-151

MAT 6325

(n,2n)

63-Eu-151

Cross Section -100.0 To 90.42 %



4

Incident Energy (eV)

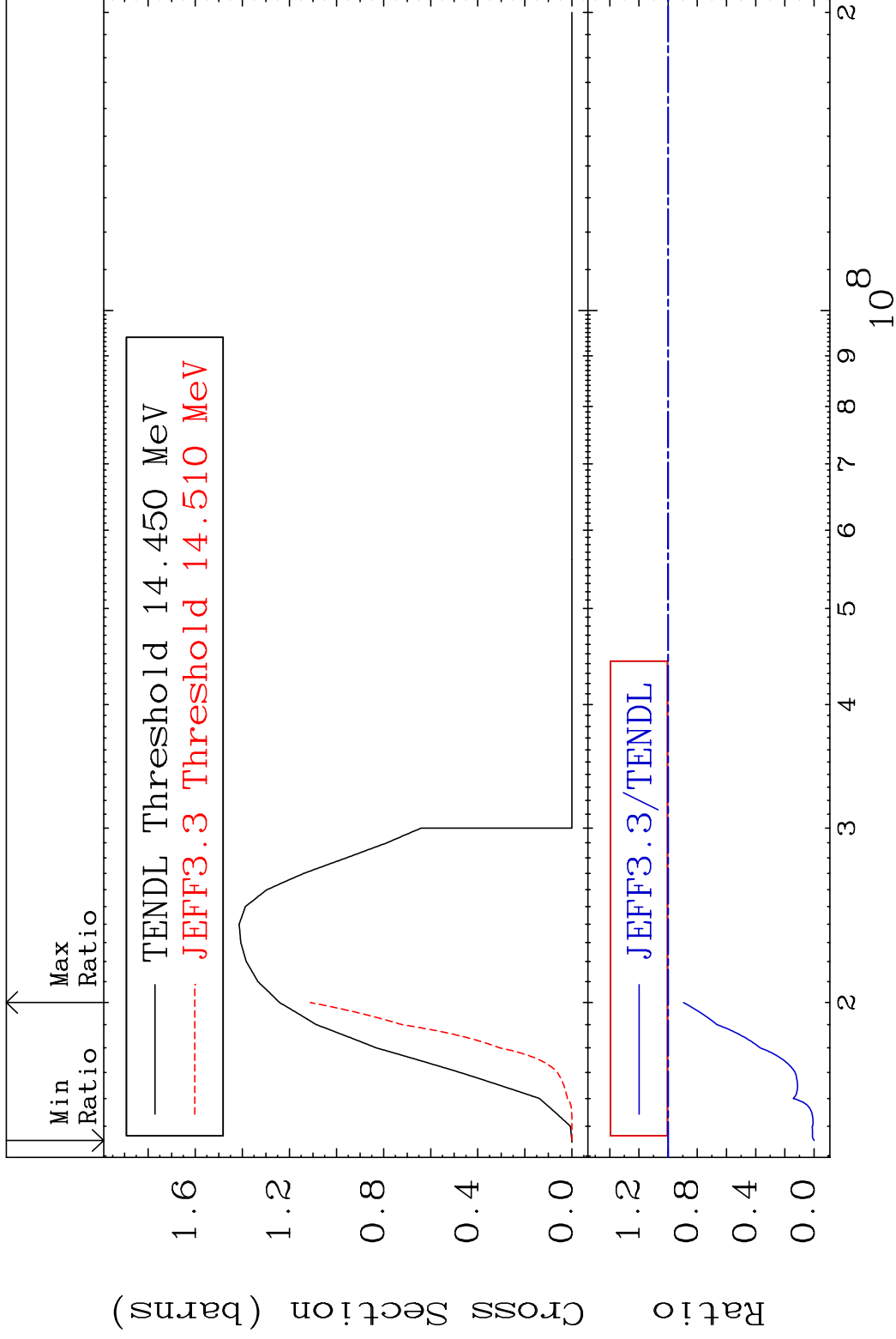
63-Eu-151

MAT 6325

(n,3n)

63-Eu-151

Cross Section -100.0 To -10.51%



5

Incident Energy (eV)

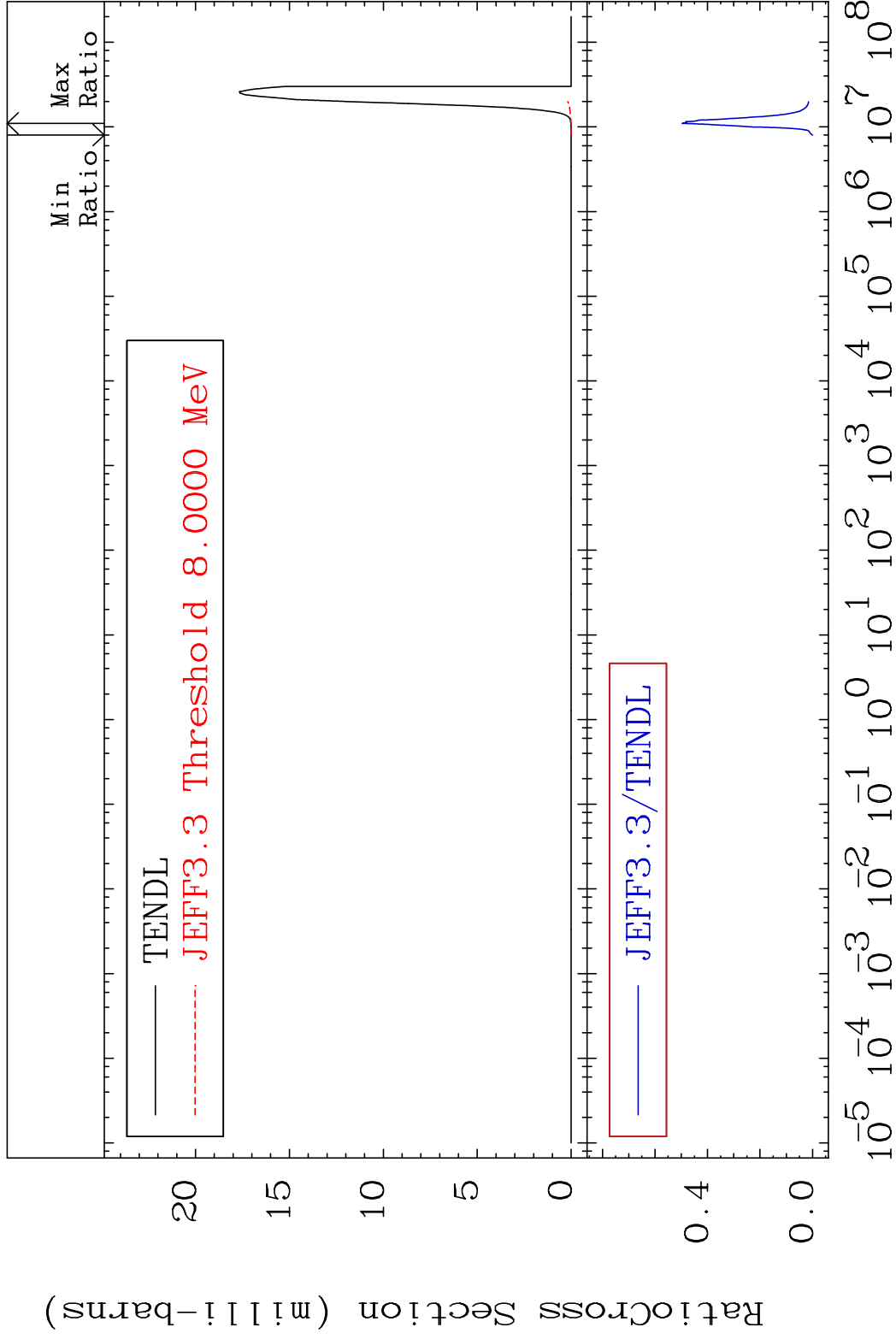
63-Eu-151

MAT 6325

(n, n') α

63-Eu-151

Cross Section -100.0 To -50.42%



6

Incident Energy (eV)

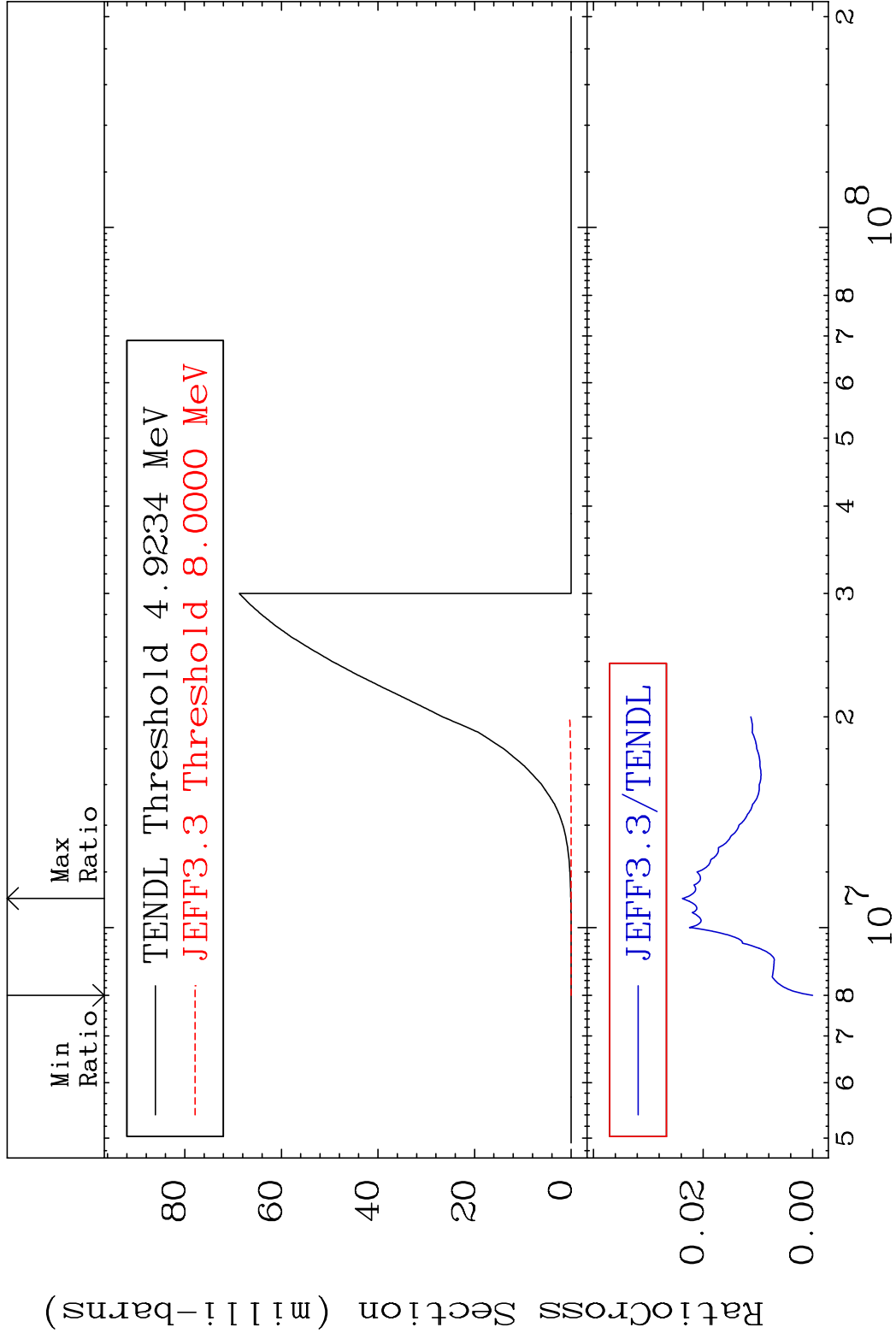
63-Eu-151

MAT 6325

(n, n') p

63-Eu-151

Cross Section -100.0 To -97.62%

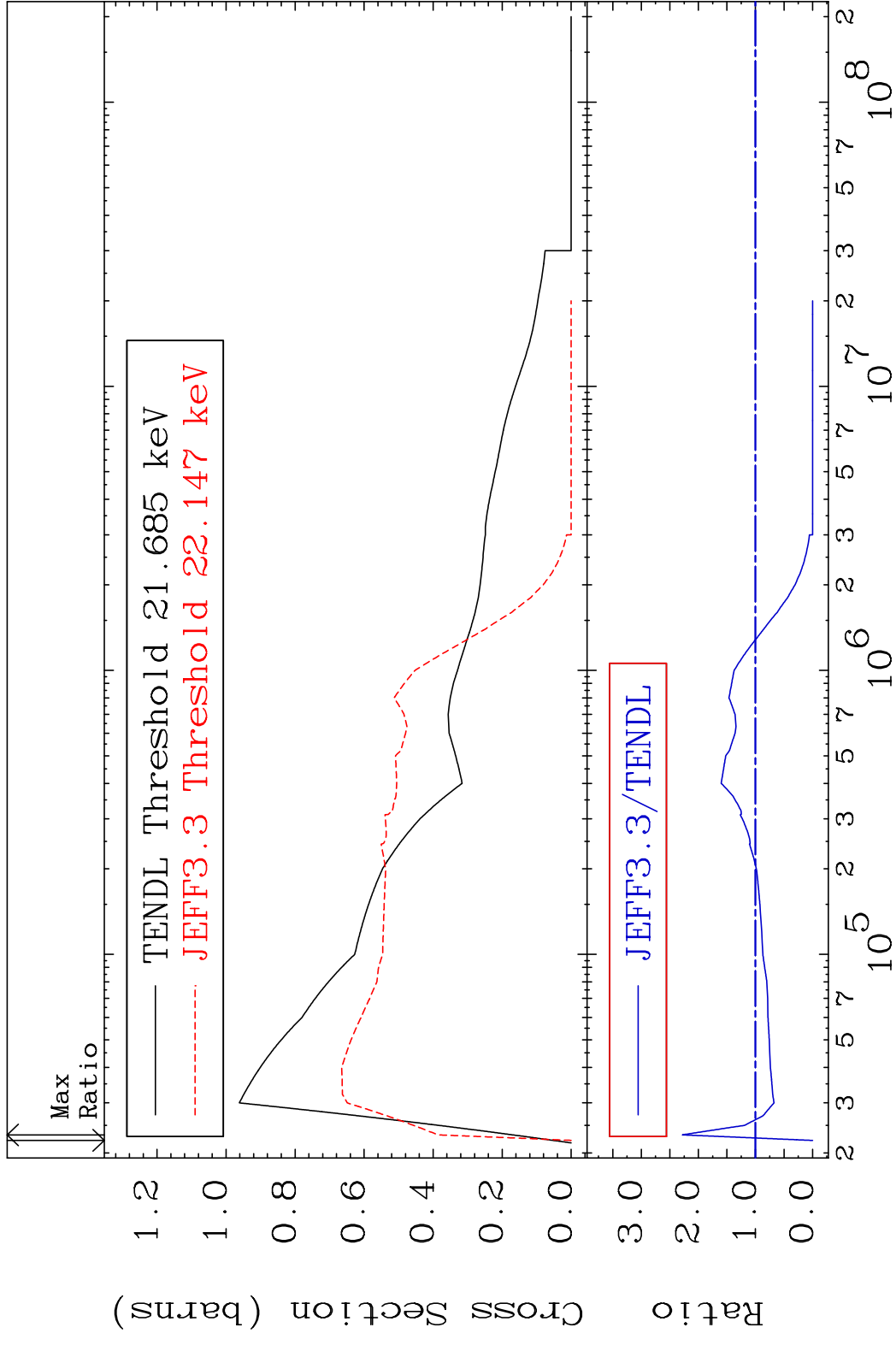


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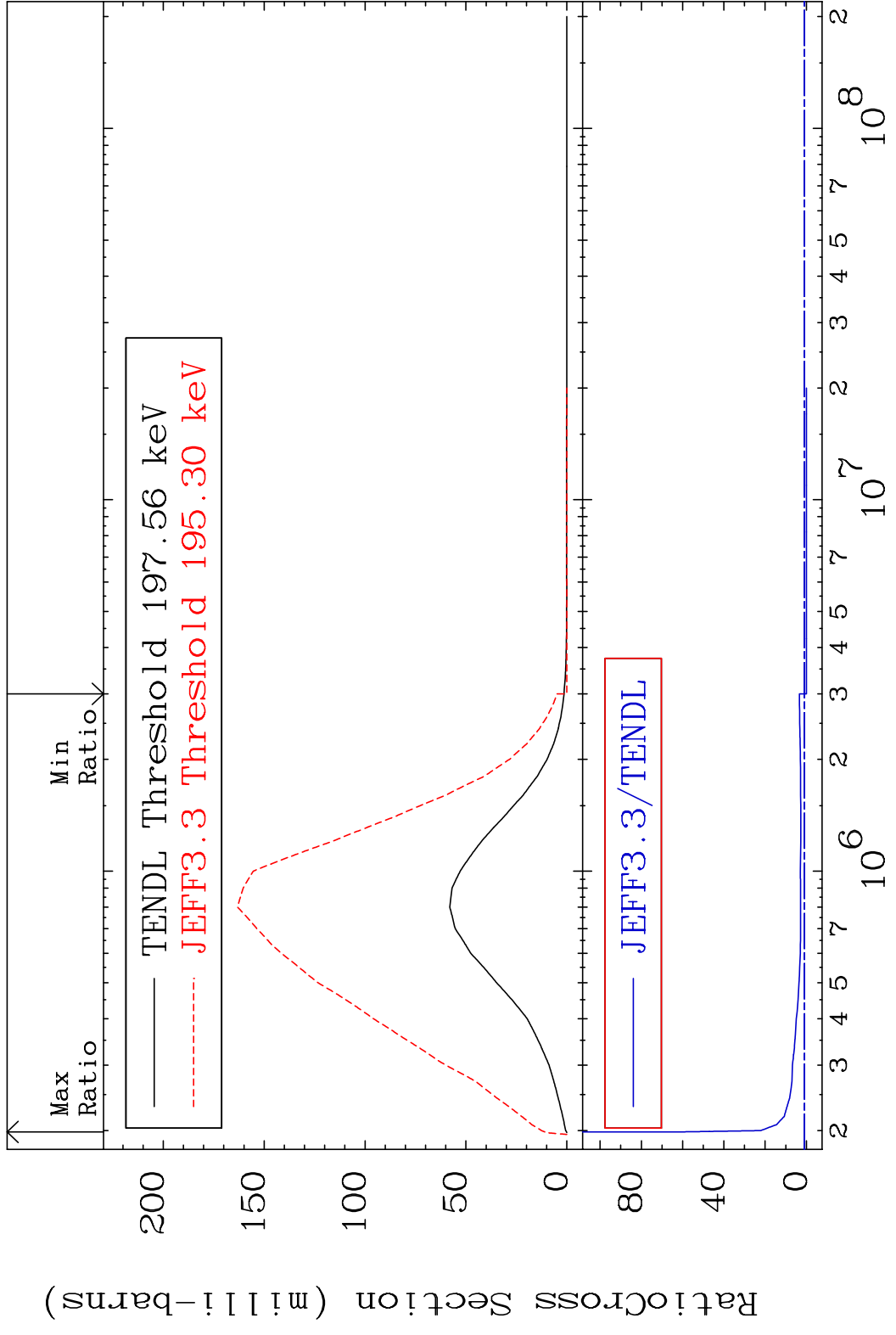
Incident Energy (eV)

63-Eu-151

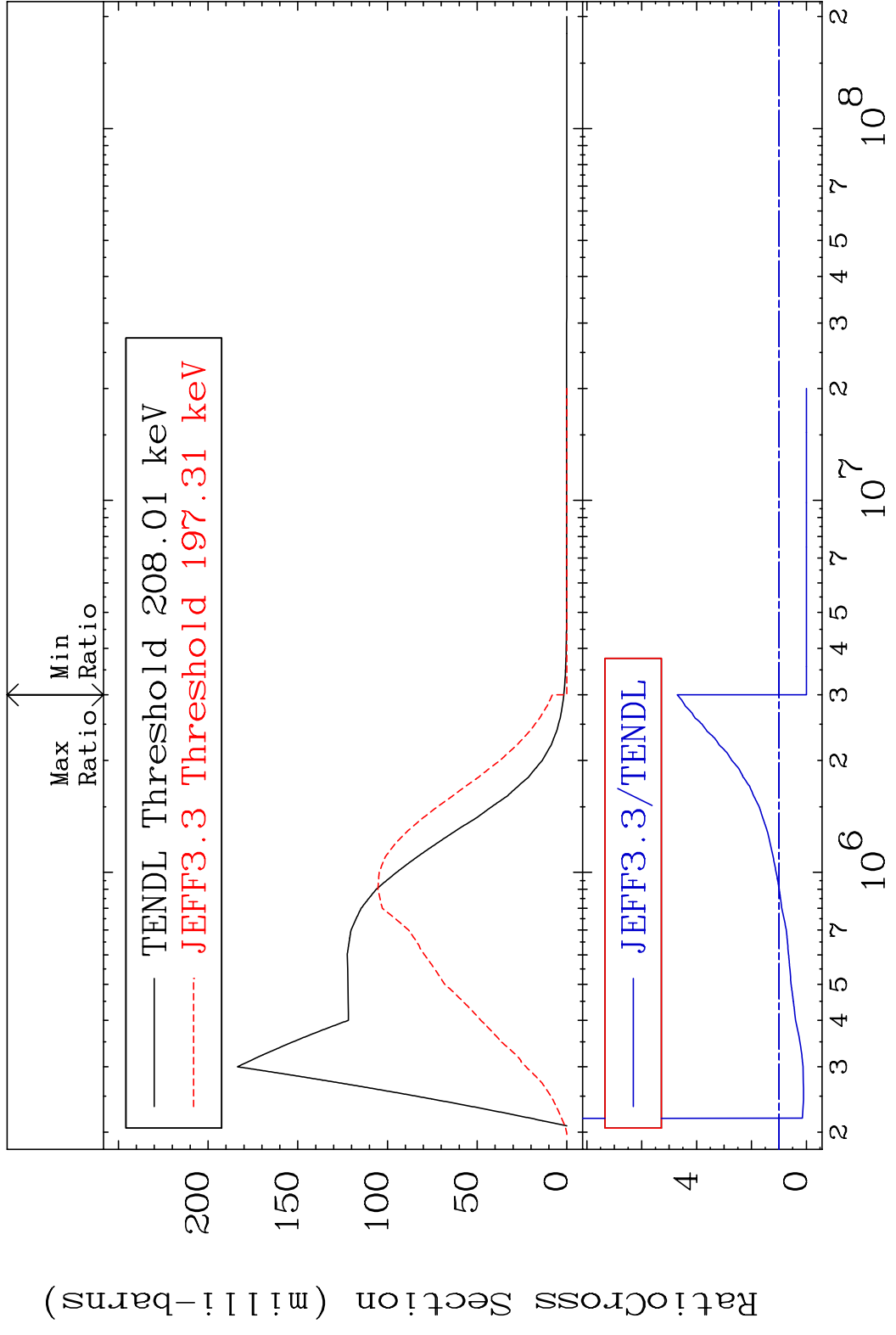
MAT 6325 MT= 51 (n,n') Level 63-Eu-151
 Cross Section -100.0 To 128.1 %



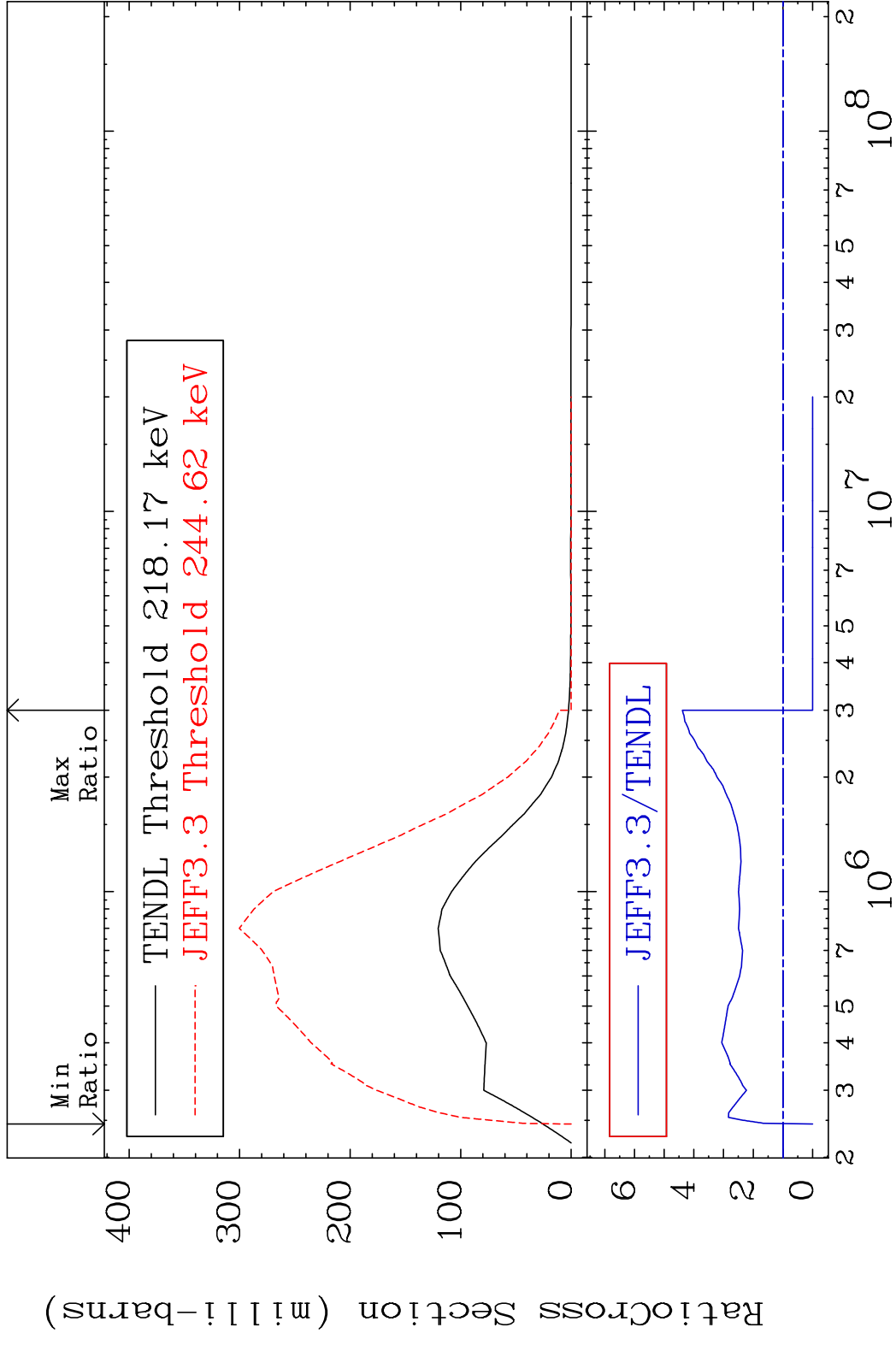
MAT 6325 MT= 52 (n, n') Level 63-Eu-151
 Cross Section -100.0 To 6163. %



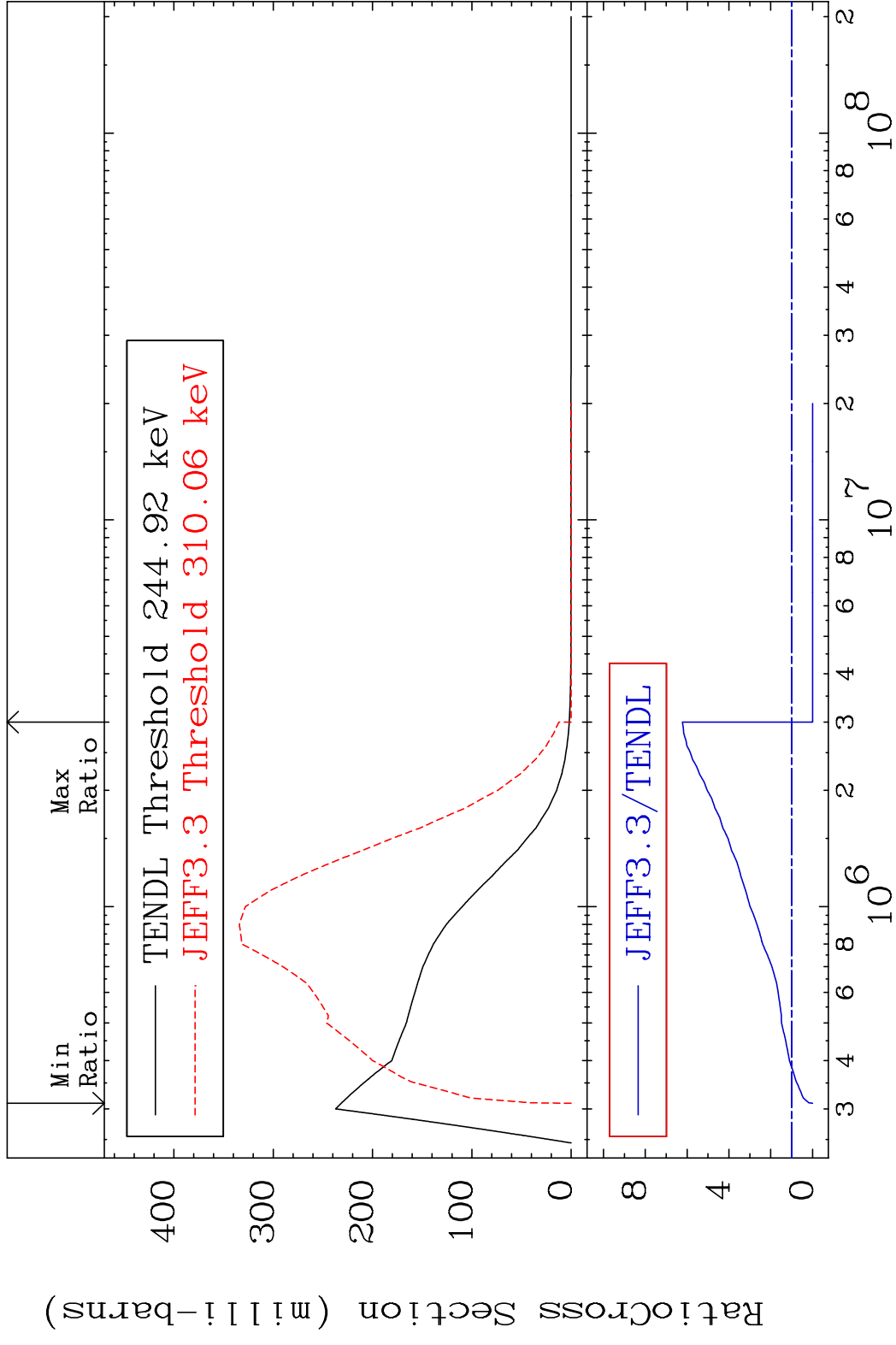
MAT 6325 MT= 53 (n, n') Level 63-Eu-151
 Cross Section -100.0 To 370.8 %



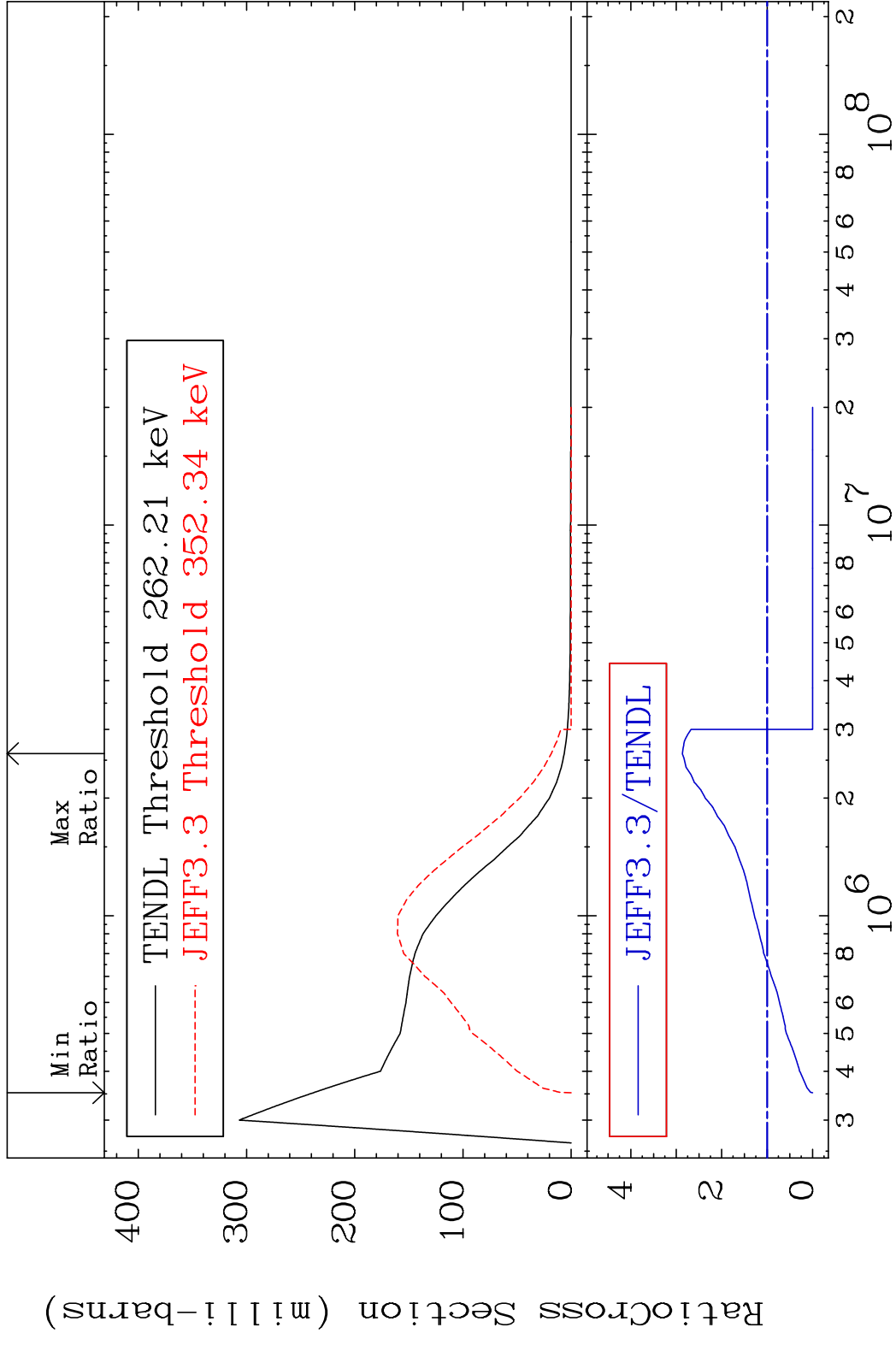
MAT 6325 MT= 54 (n, n') Level 63-Eu-151
 Cross Section -100.0 To 338.8 %



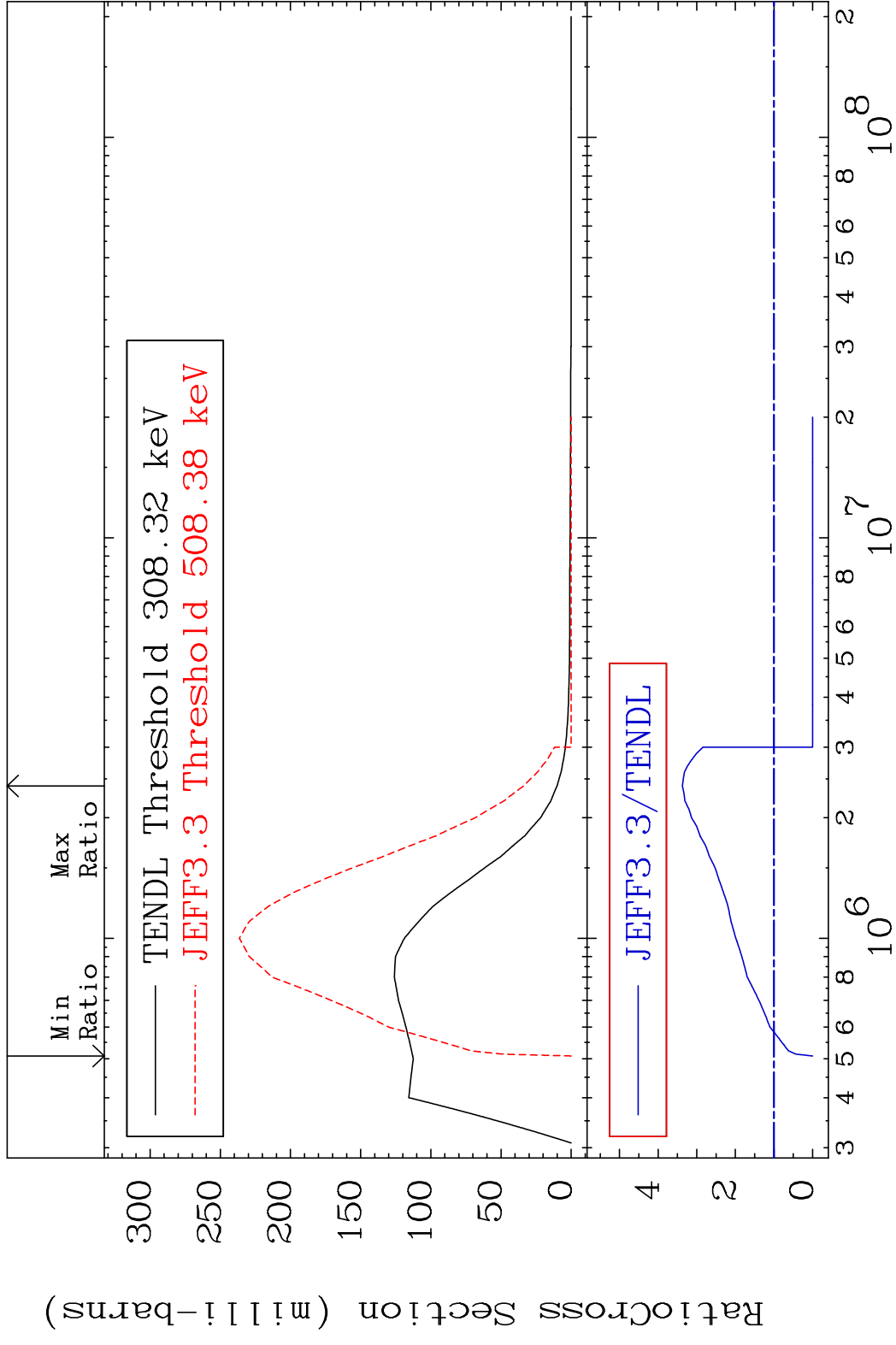
MAT 6325 MT= 55 (n,n') Level 63-Eu-151
 Cross Section -100.0 To 522.7 %



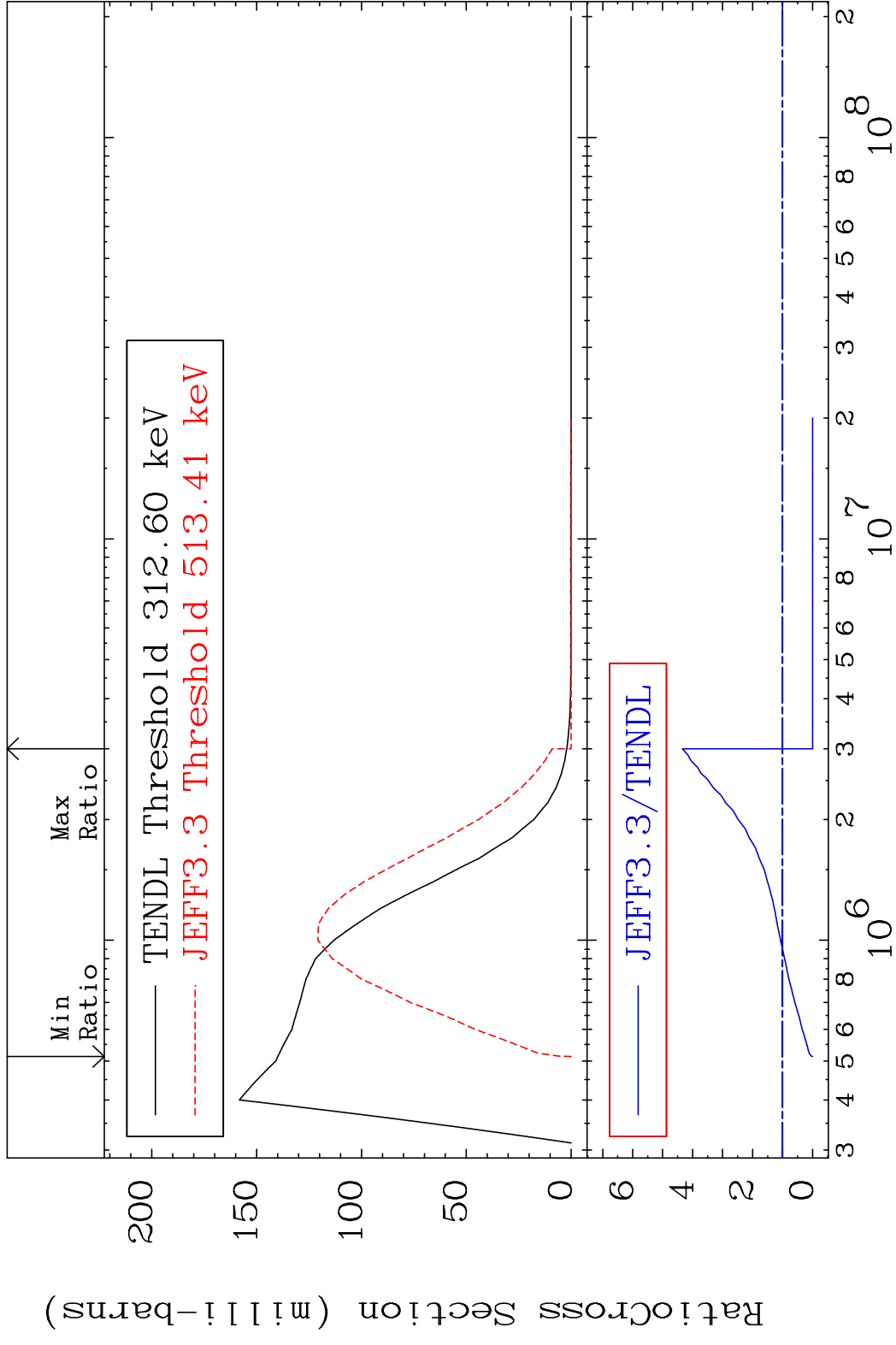
MAT 6325 MT= 56 (n,n') Level 63-Eu-151
 Cross Section -100.0 To 186.6 %



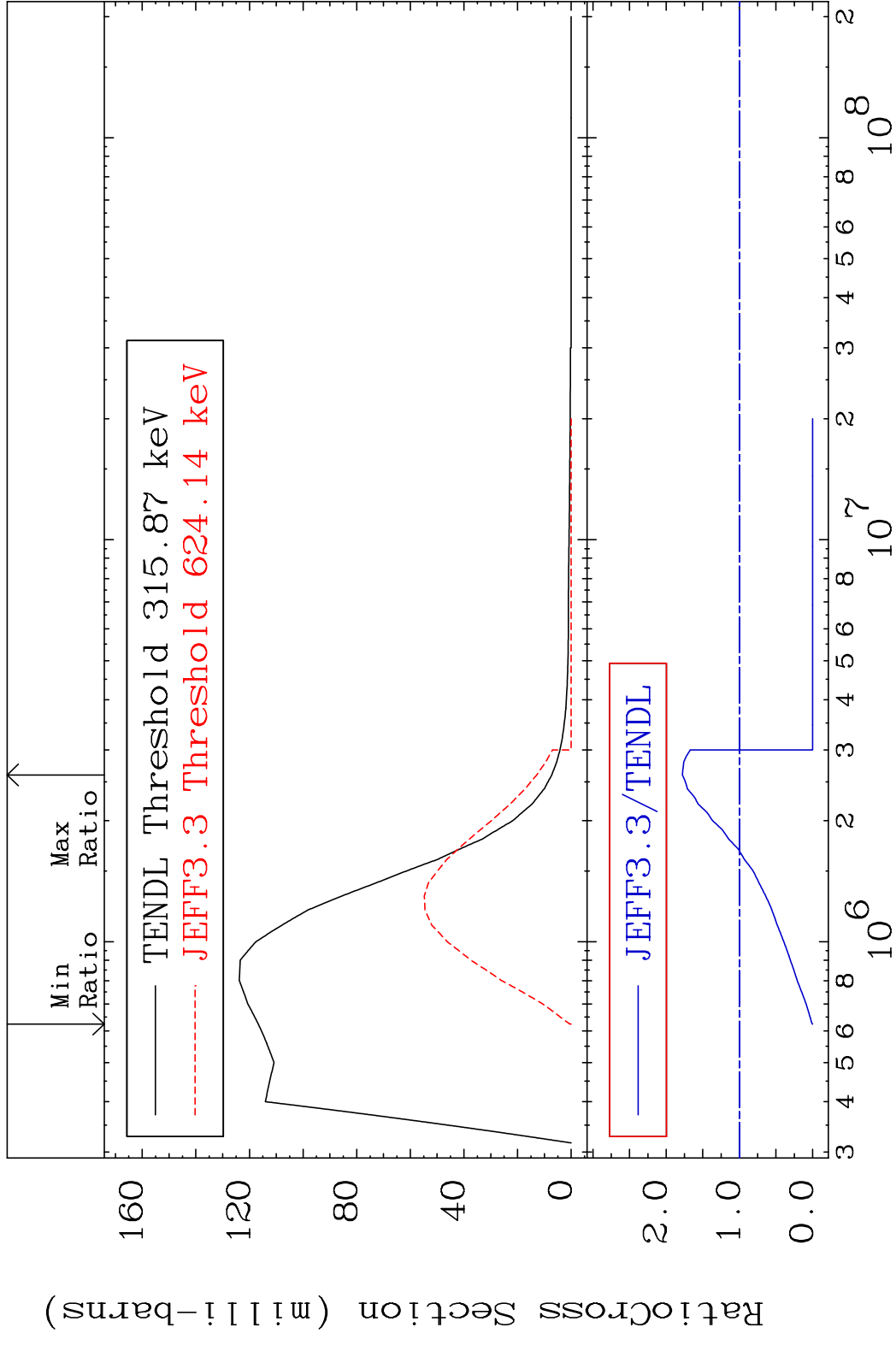
MAT 6325 MT= 57 (n, n') Level 63-Eu-151
 Cross Section -100.0 To 237.3 %



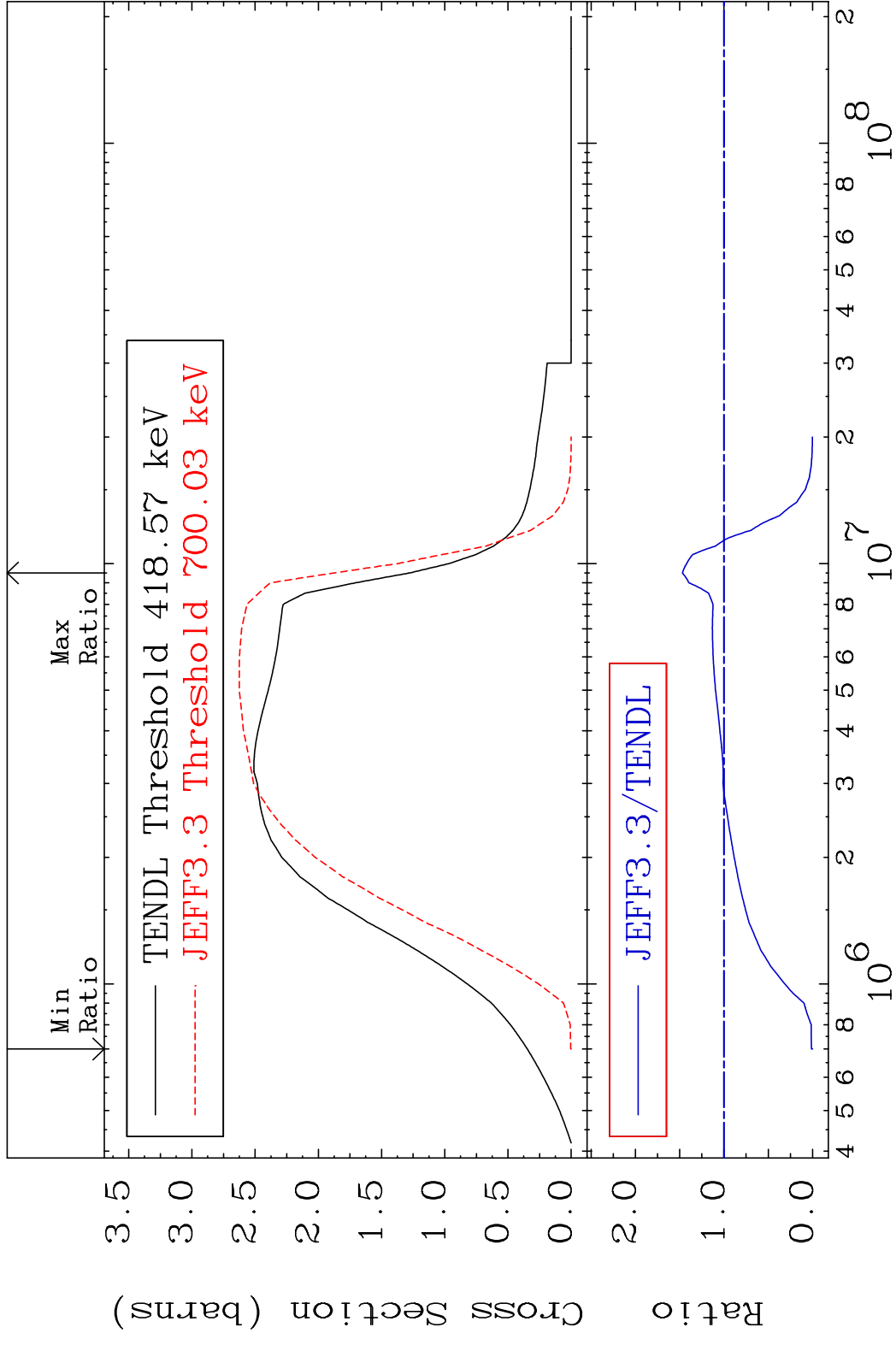
MAT 6325 MT= 58 (n, n') Level 63-Eu-151
 Cross Section -100.0 To 334.3 %



MAT 6325 MT= 59 (n,n') Level 63-Eu-151
 Cross Section -100.0 To 77.86 %



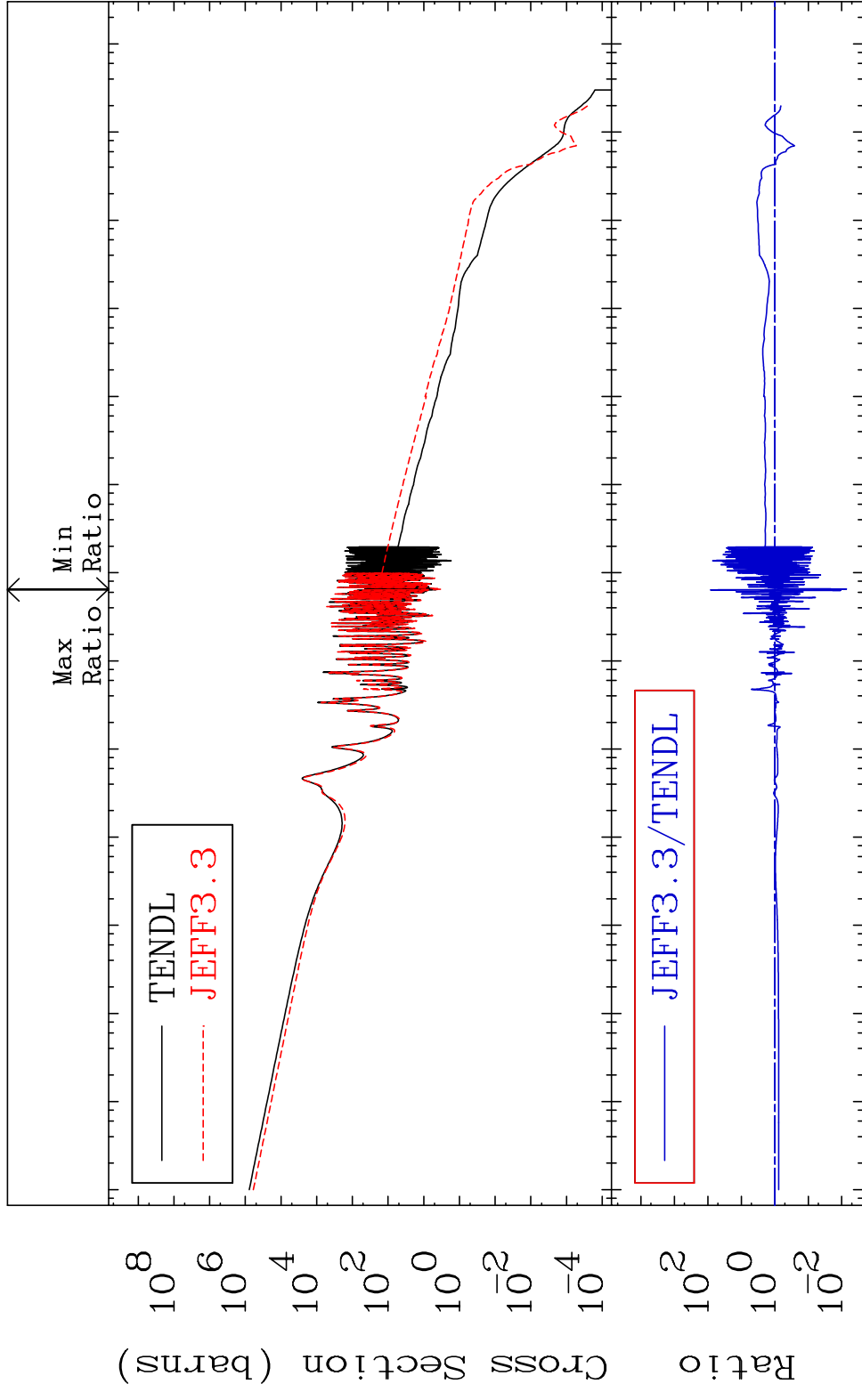
MAT 6325 (n, n') Continuum 63-Eu-151
 Cross Section -100.0 To 46.97 %



MAT 6325

(n, γ)
Cross Section -99.27 To 8116. %

63-Eu-151



Cross Section (barns)
 10^8
 10^6
 10^4
 10^2
 10^0
 10^{-2}
 10^{-4}

Ratio
 10^2
 10^0
 10^{-2}

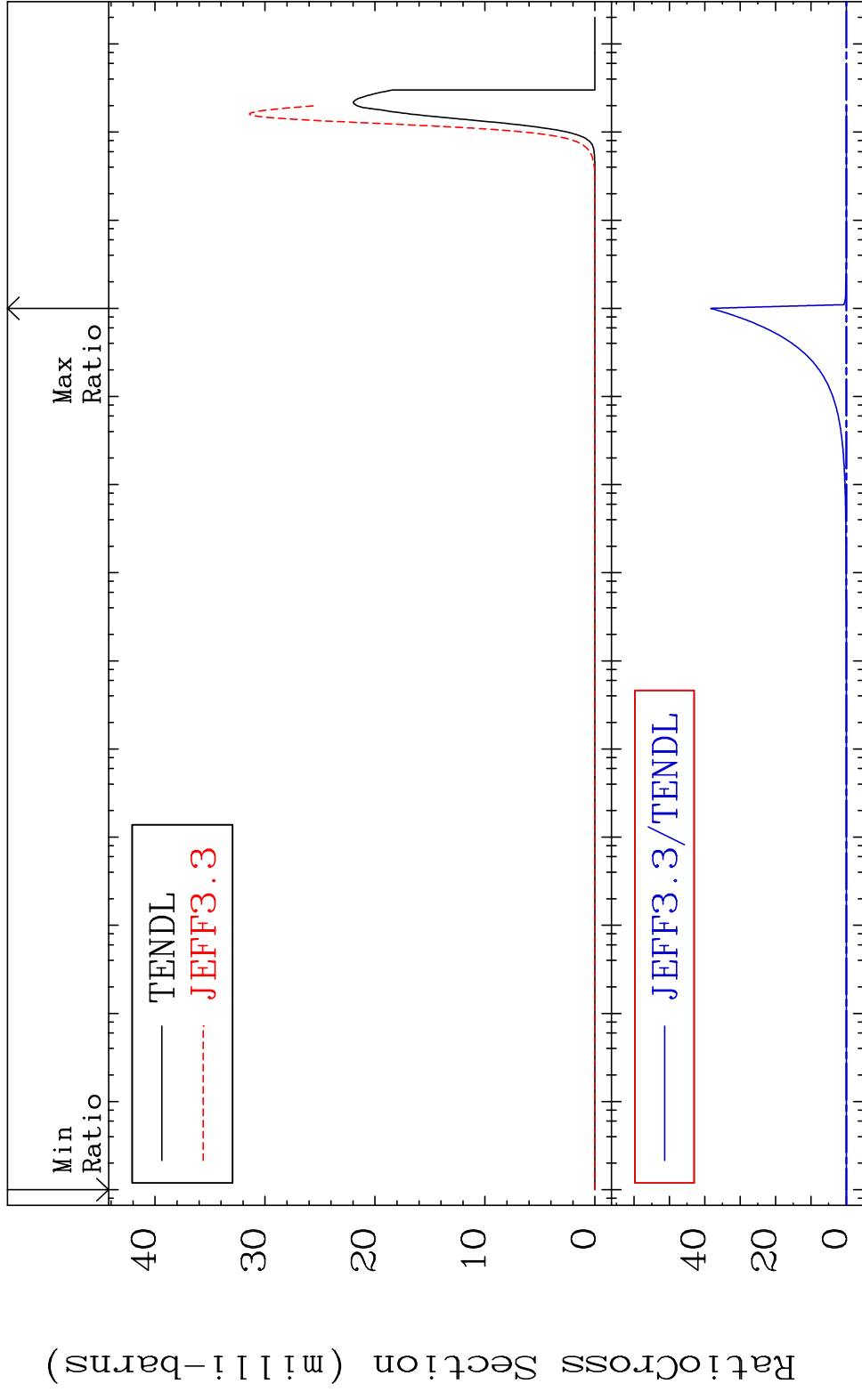
Incident Energy (eV)
 10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8

MAT 6325

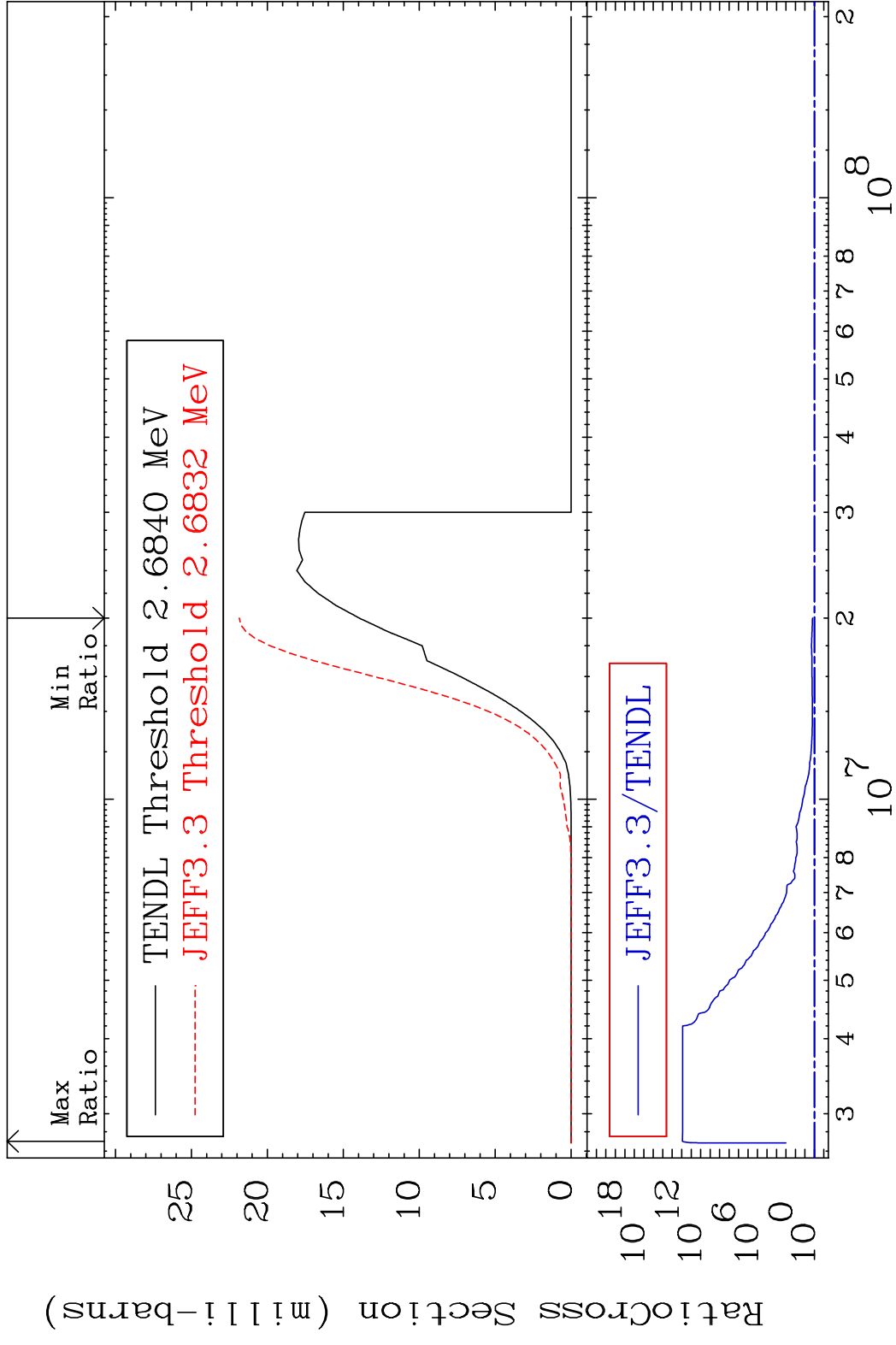
(n, p)

63-Eu-151

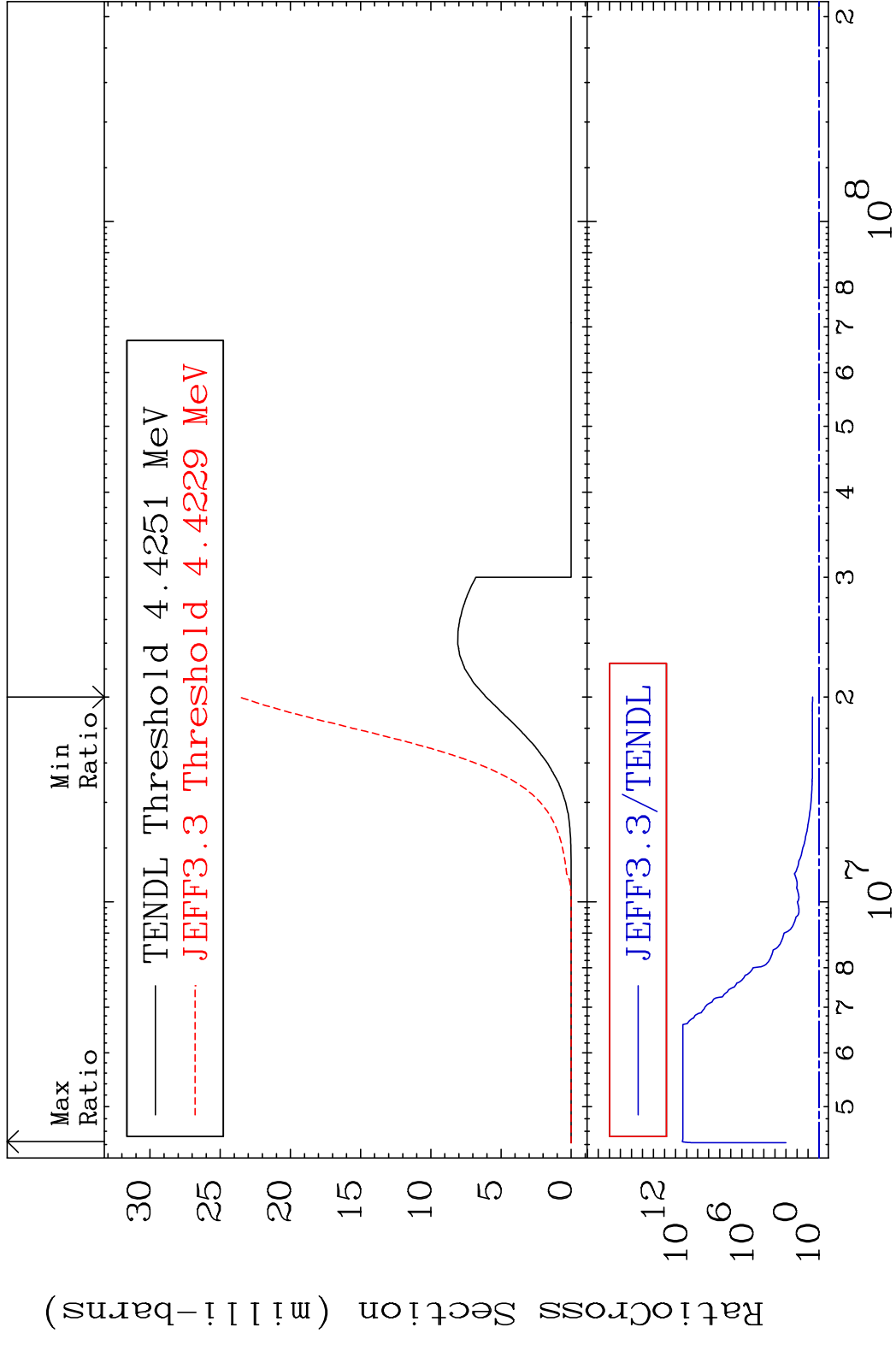
Cross Section -100.0 To 9999. %



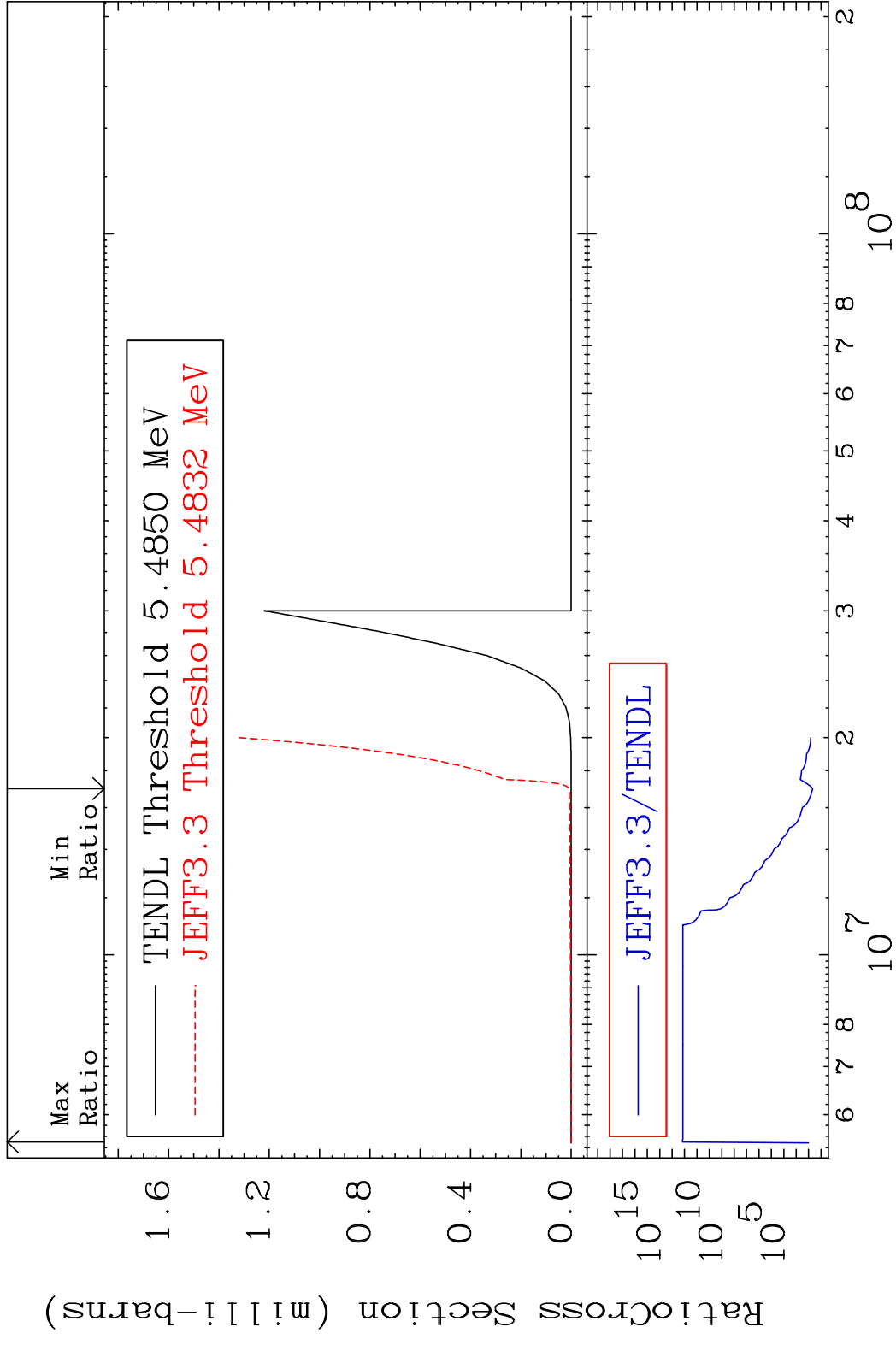
MAT 6325 (n,d) 63-Eu-151
 Cross Section 56.71 To 9999. %



MAT 6325 (n, t) 63-Eu-151
 Cross Section 290.1 To 9999. %



MAT 6325 (n, He-3) 63-Eu-151
 Cross Section 9999. To 9999. %

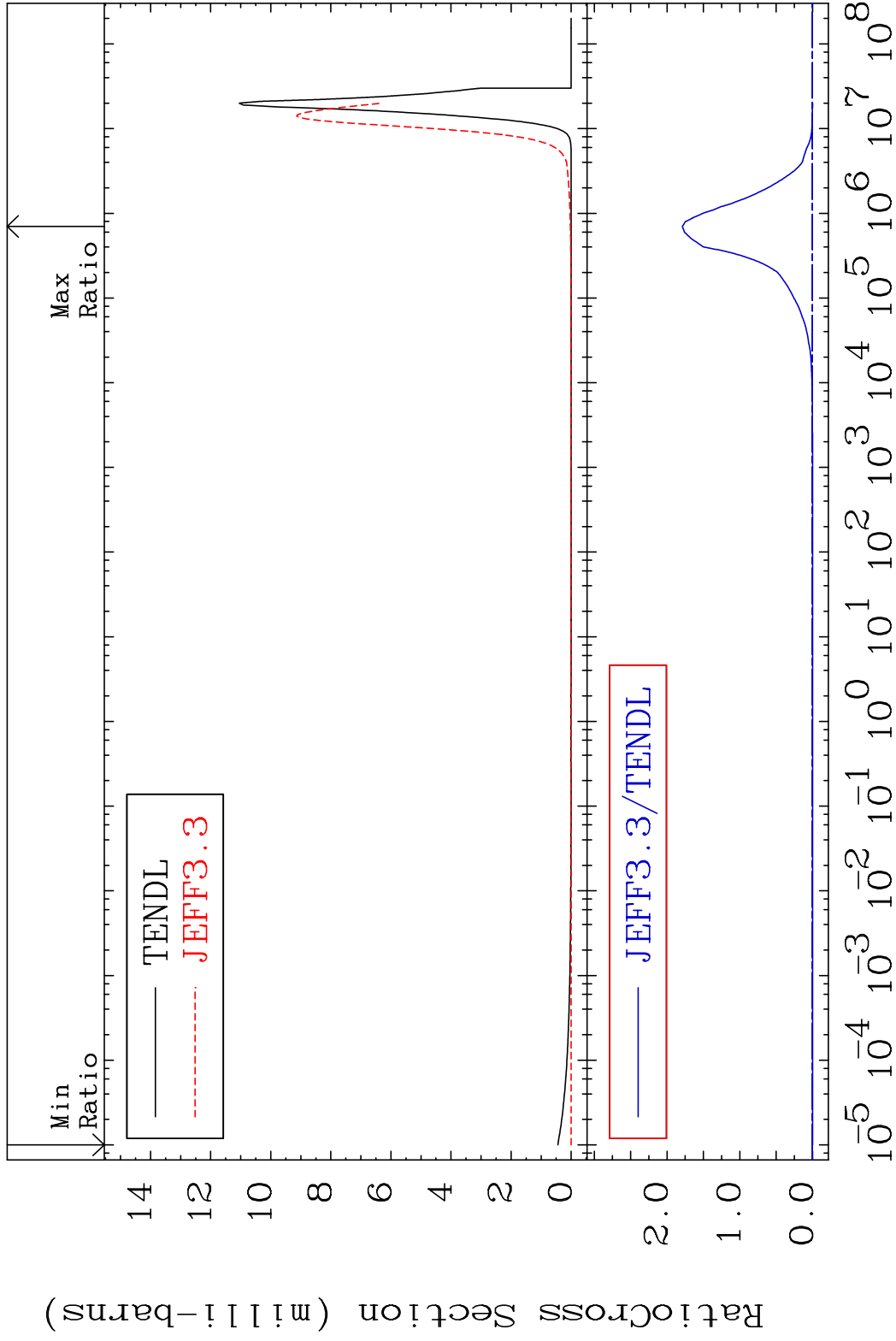


MAT 6325

(n, α)

63-Eu-151

Cross Section -100.0 To 9999. %

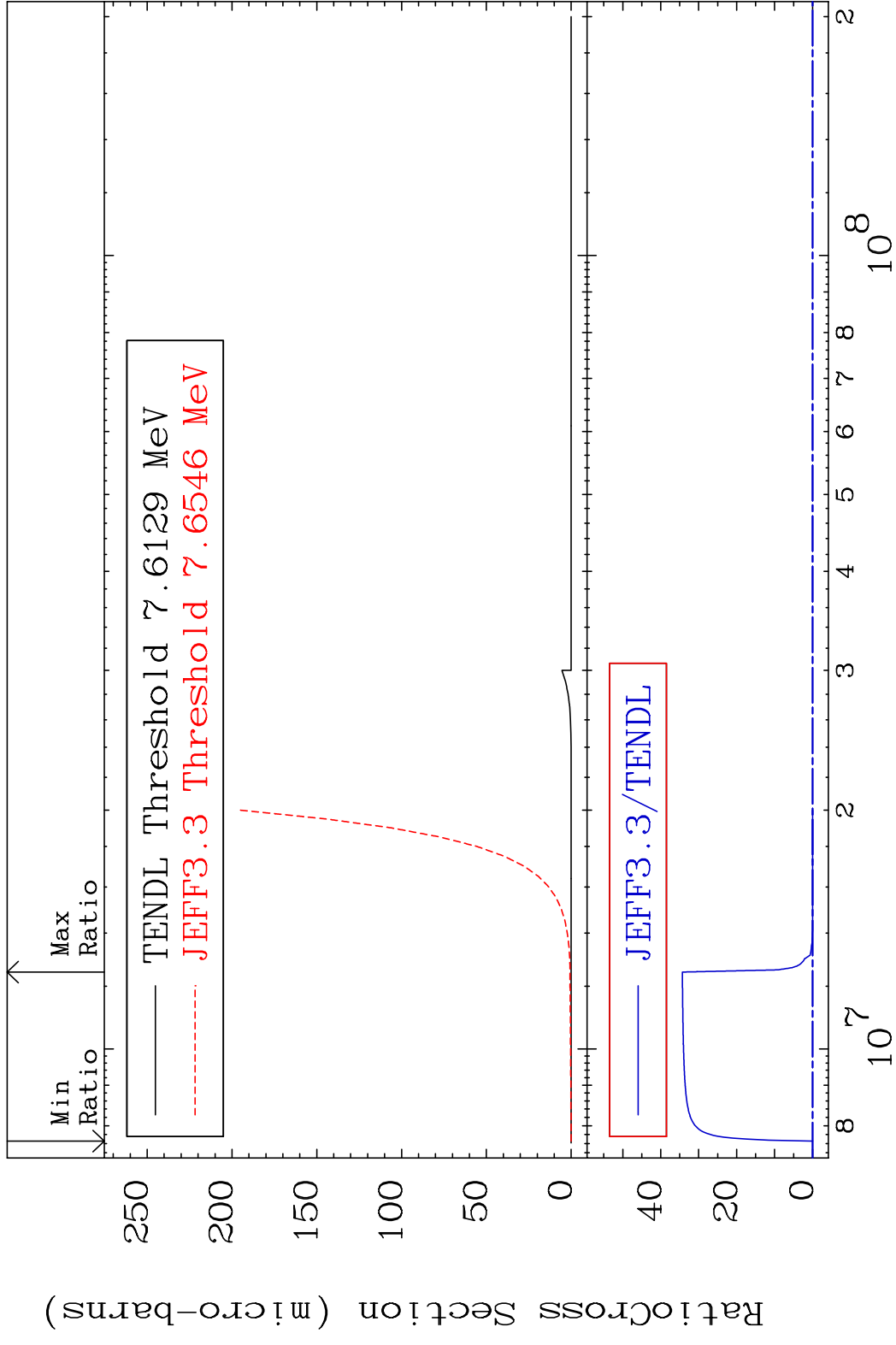


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Incident Energy (eV)

63-Eu-151

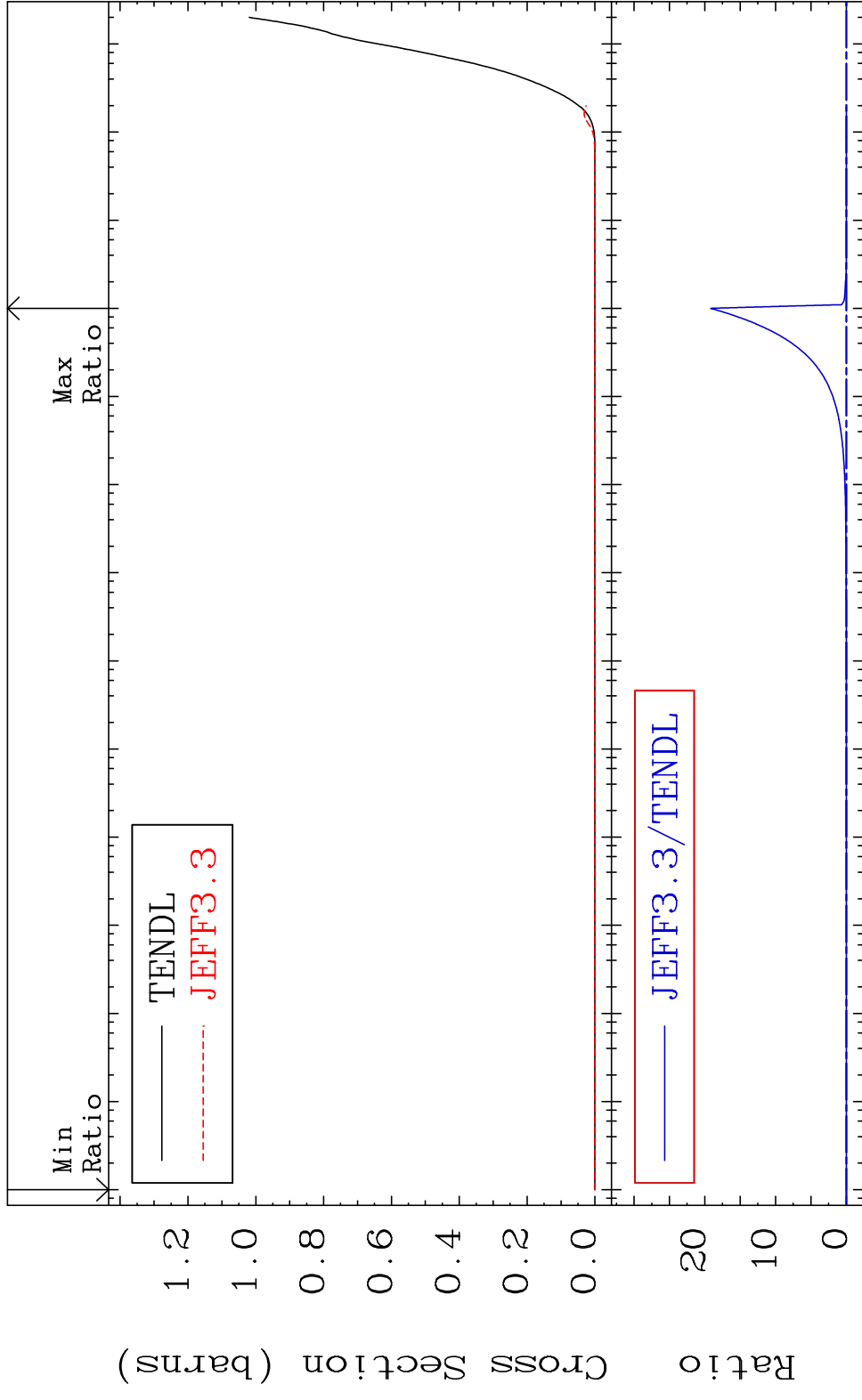
MAT 6325 (n,2p) 63-Eu-151
 Cross Section -100.0 To 9999. %



MAT 6325

Hydrogen Production
Cross Section -100.0 To 9999. %

63-Eu-151

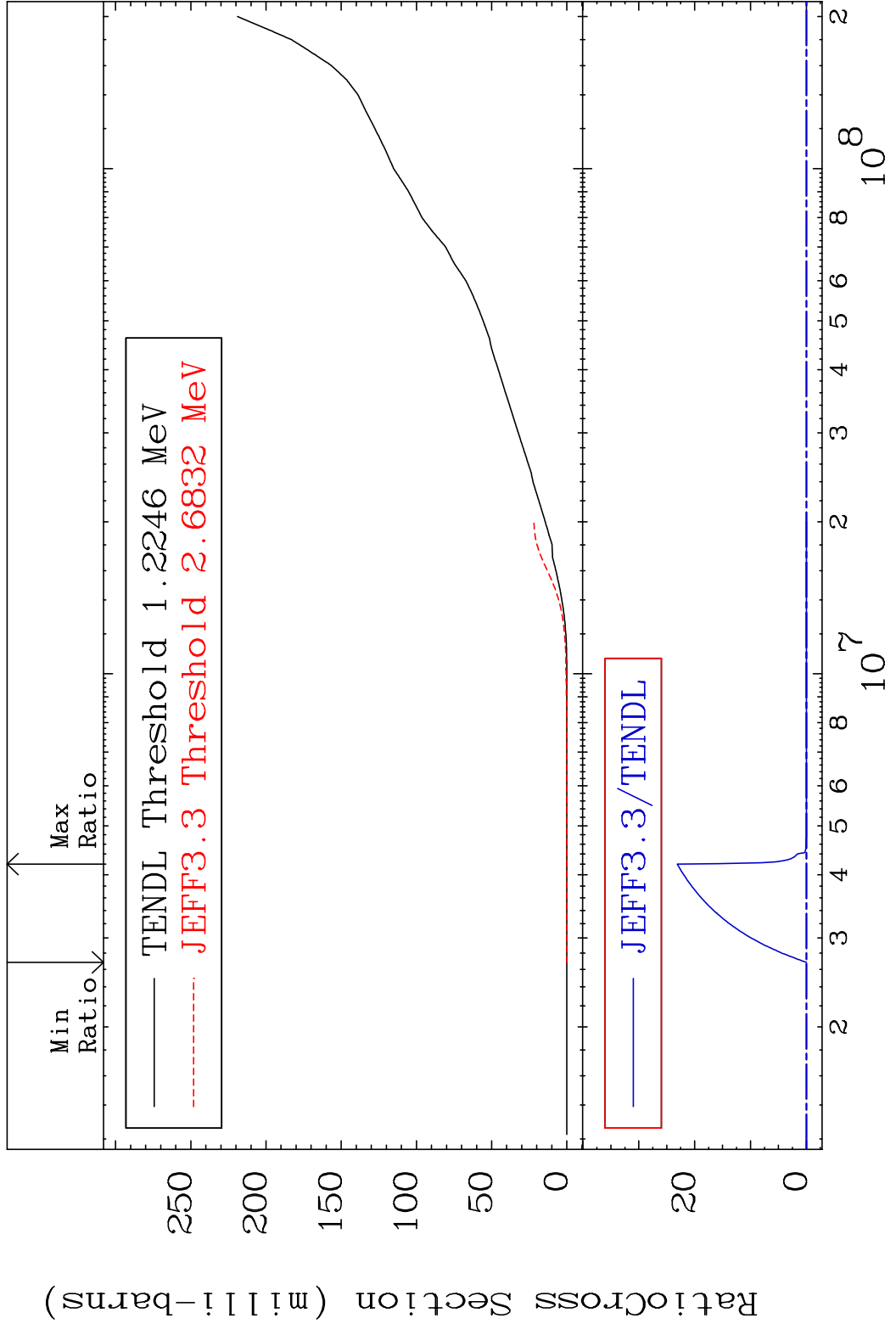


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Incident Energy (eV)

63-Eu-151

MAT 6325 Deuterium Production 63-Eu-151
 Cross Section -100.0 To 9999. %

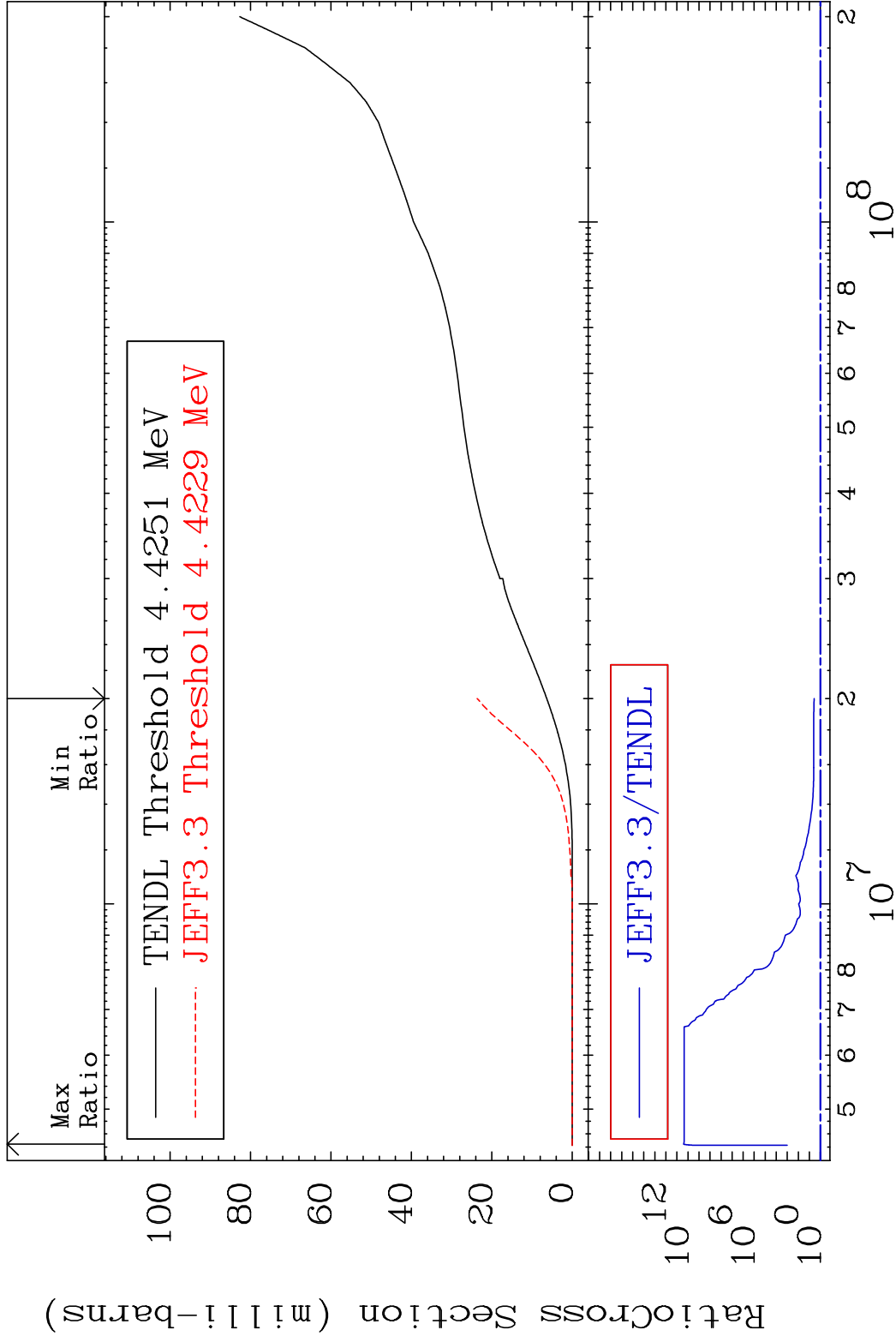


26 Incident Energy (eV) 63-Eu-151

MAT 6325

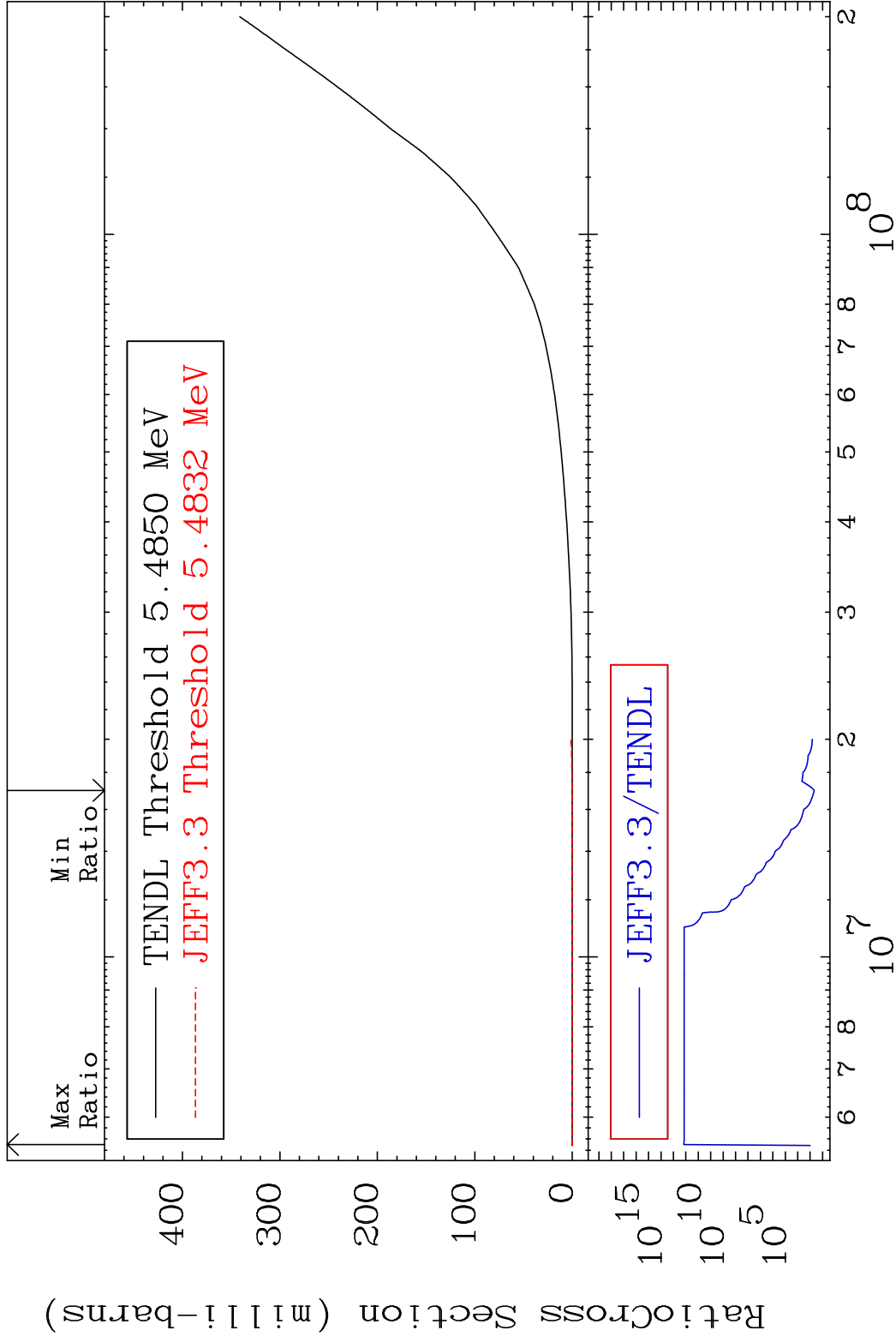
Tritium Production 63-Eu-151

Cross Section 273.0 To 9999. %



MAT 6325

He-3 Production 63-Eu-151
Cross Section 9999. To 9999. %



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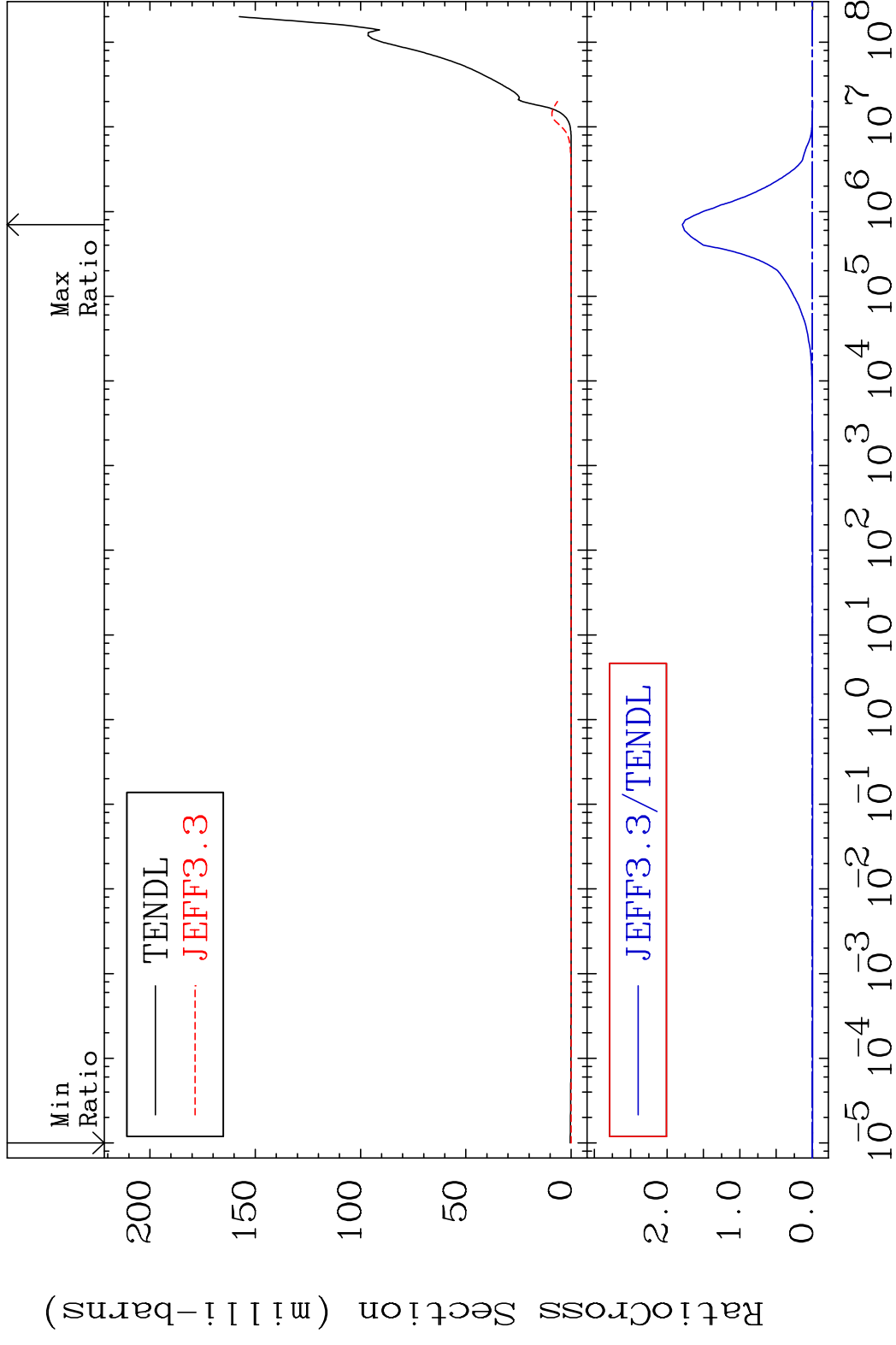
Incident Energy (eV) 63-Eu-151

MAT 6325

He-4 Production

63-Eu-151

Cross Section -100.0 To 9999. %

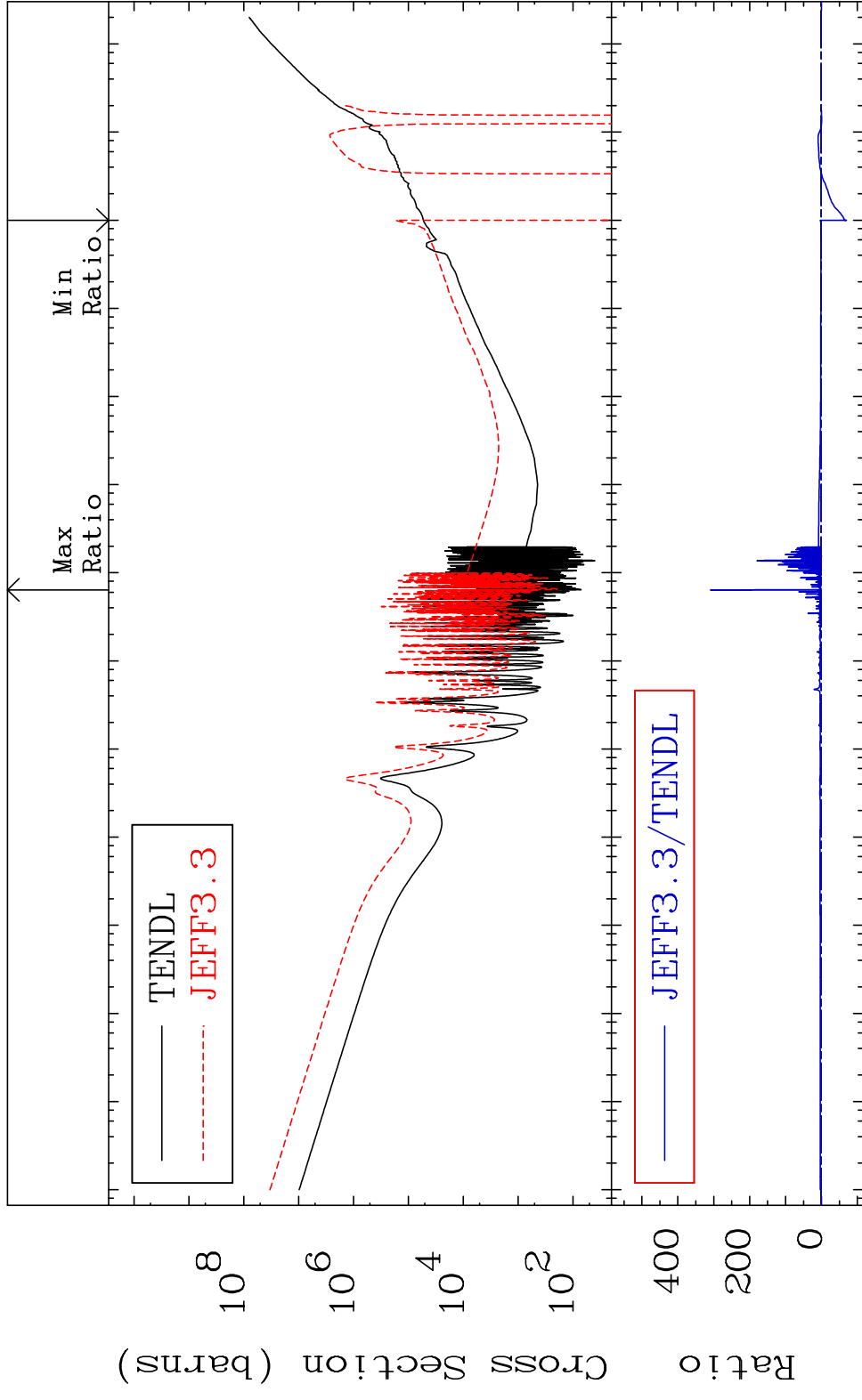


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Incident Energy (eV)

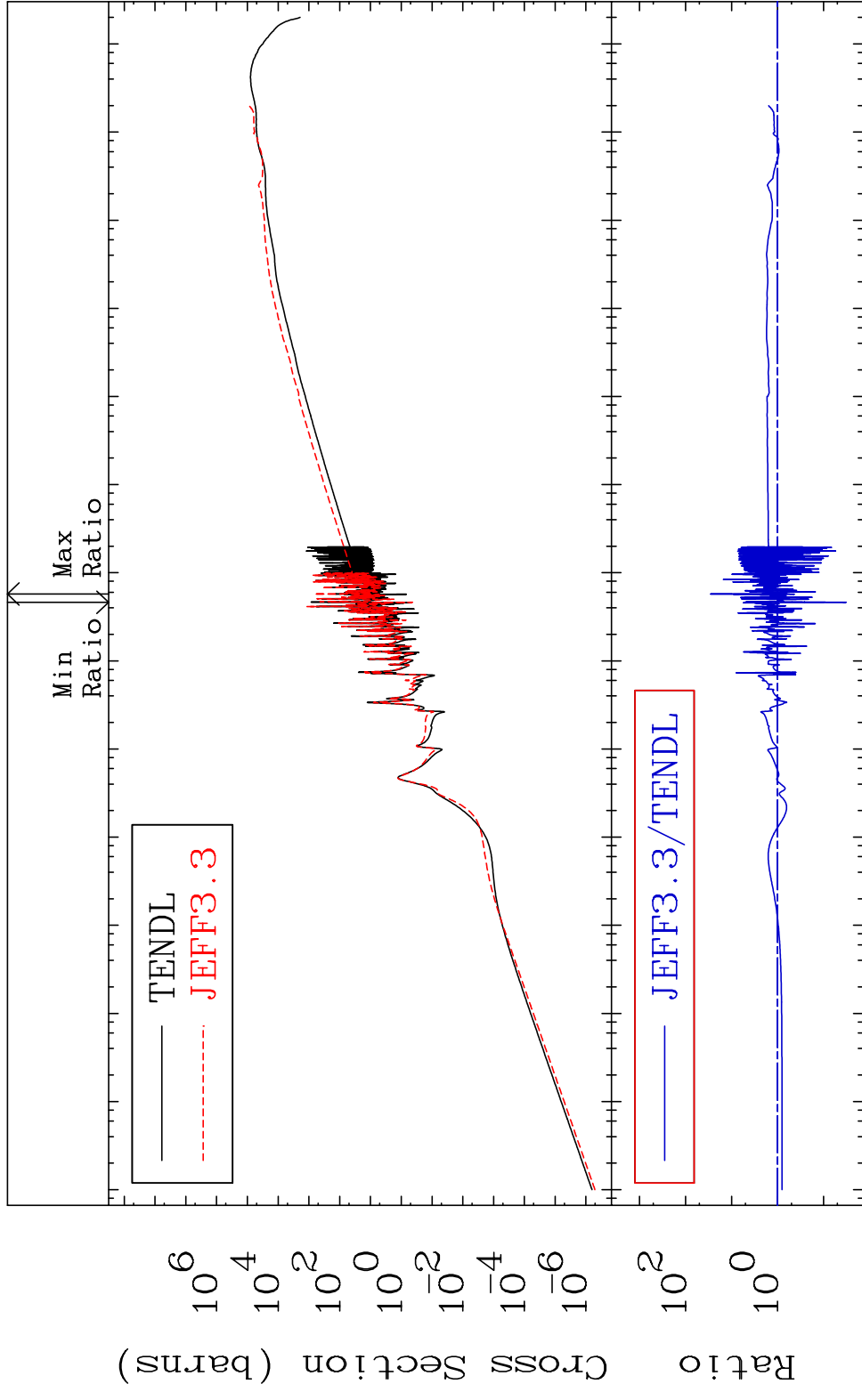
63-Eu-151

MAT 6325 Kerma total (eV-barns) 63-Eu-151
 Cross Section -7014. To 9999. %



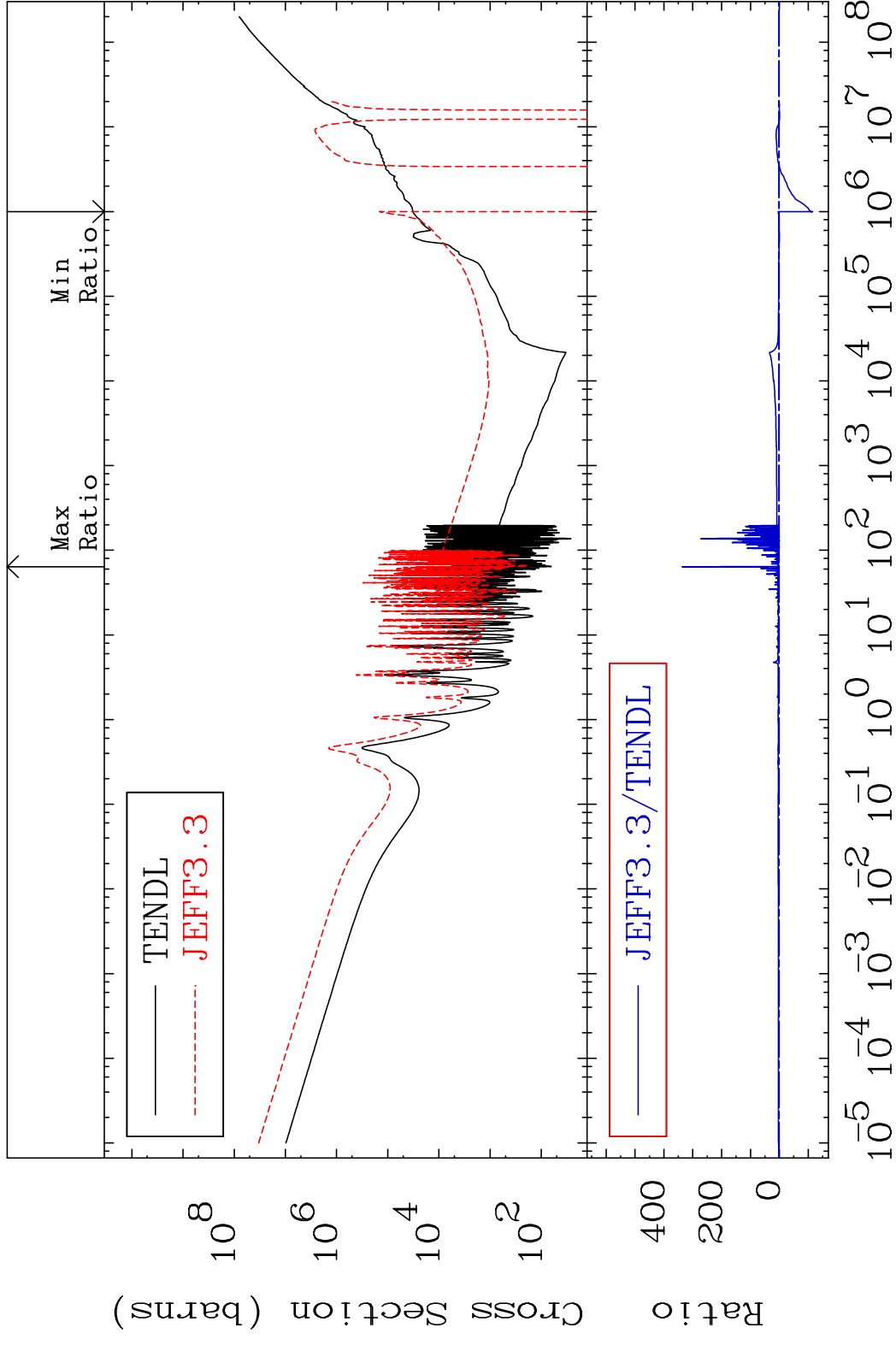
MAT 6325

Kerma elastic Cross Section -96.80 To 2735. %
63-Eu-151

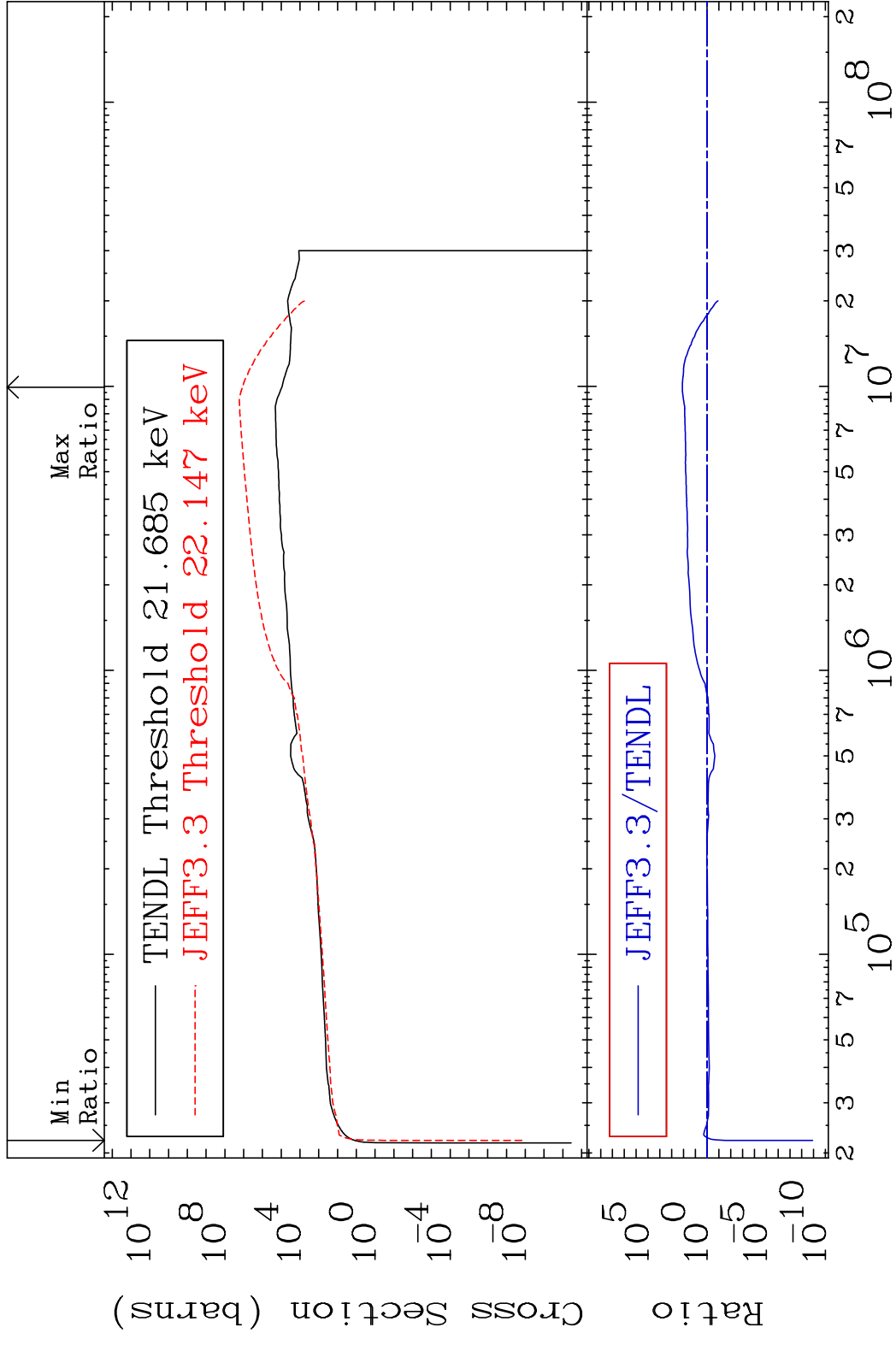


Ratio
Cross Section (barns)
10⁶
10⁴
10²
10⁰
10⁻²
10⁻⁴
10⁻⁶
10⁻⁸
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

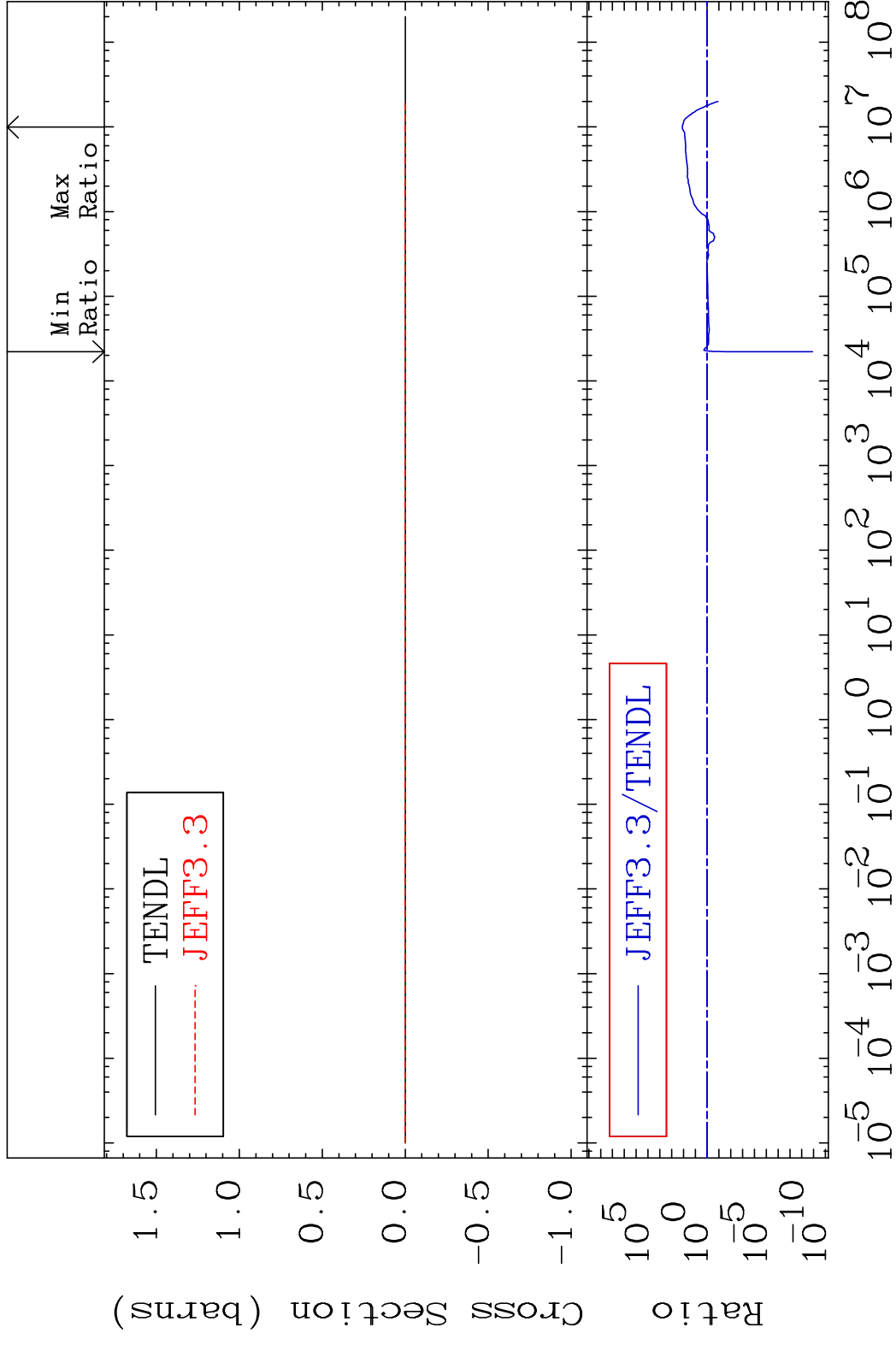
MAT 6325 Kerma non-elastic (all but mt2) 63-Eu-151
 Cross Section -9999. To 9999. %



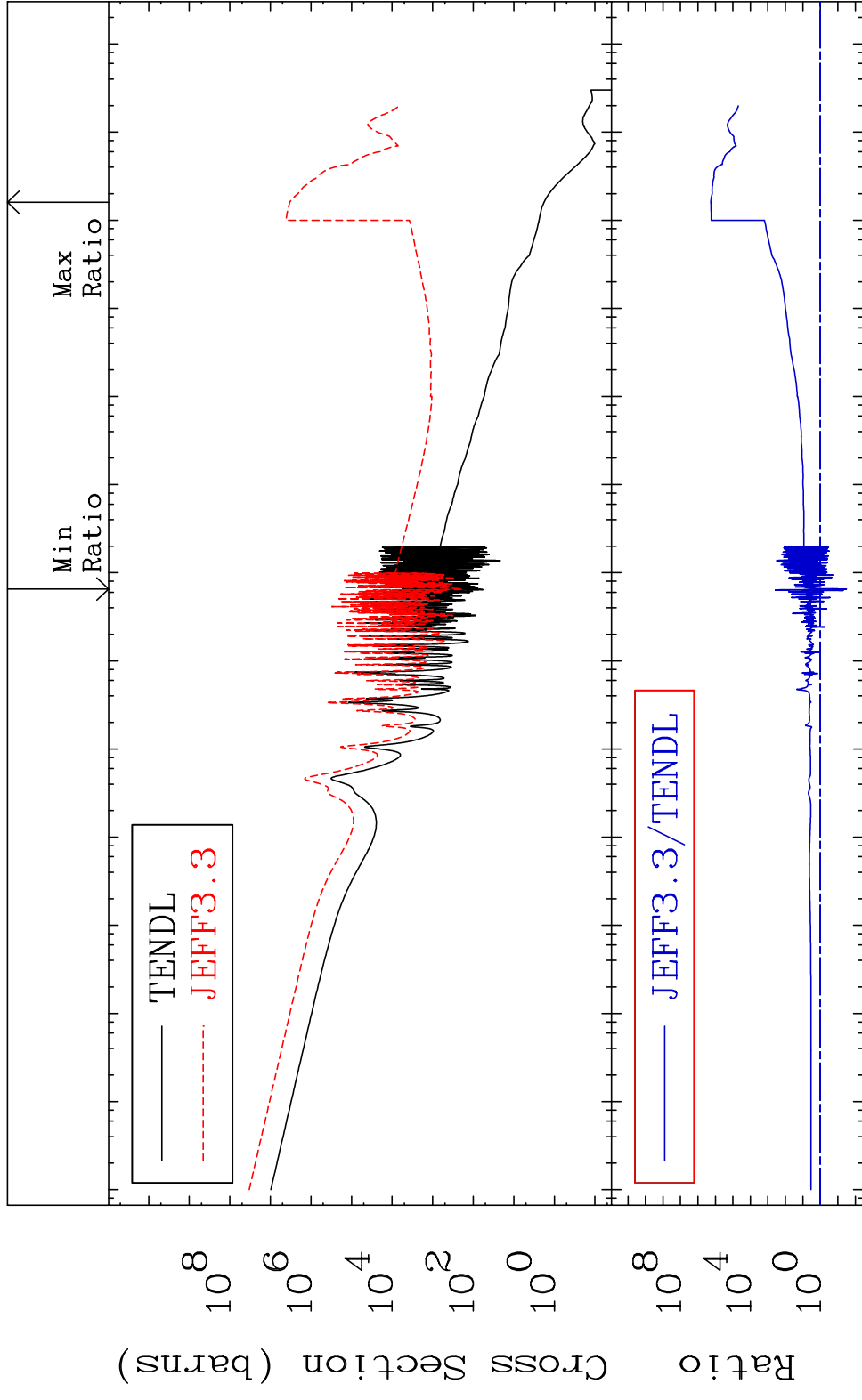
MAT 6325 Kerma inelastic (mt51-91) 63-Eu-151
 Cross Section -100.0 To 9999. %



MAT 6325 Kerma fission (mt18 or mt19-20-21-38) 63-Eu-151
 Cross Section -100.0 To 9999. %



MAT 6325 Kerma capture (mt102) 63-Eu-151
 Cross Section -96.74 To 9999. %



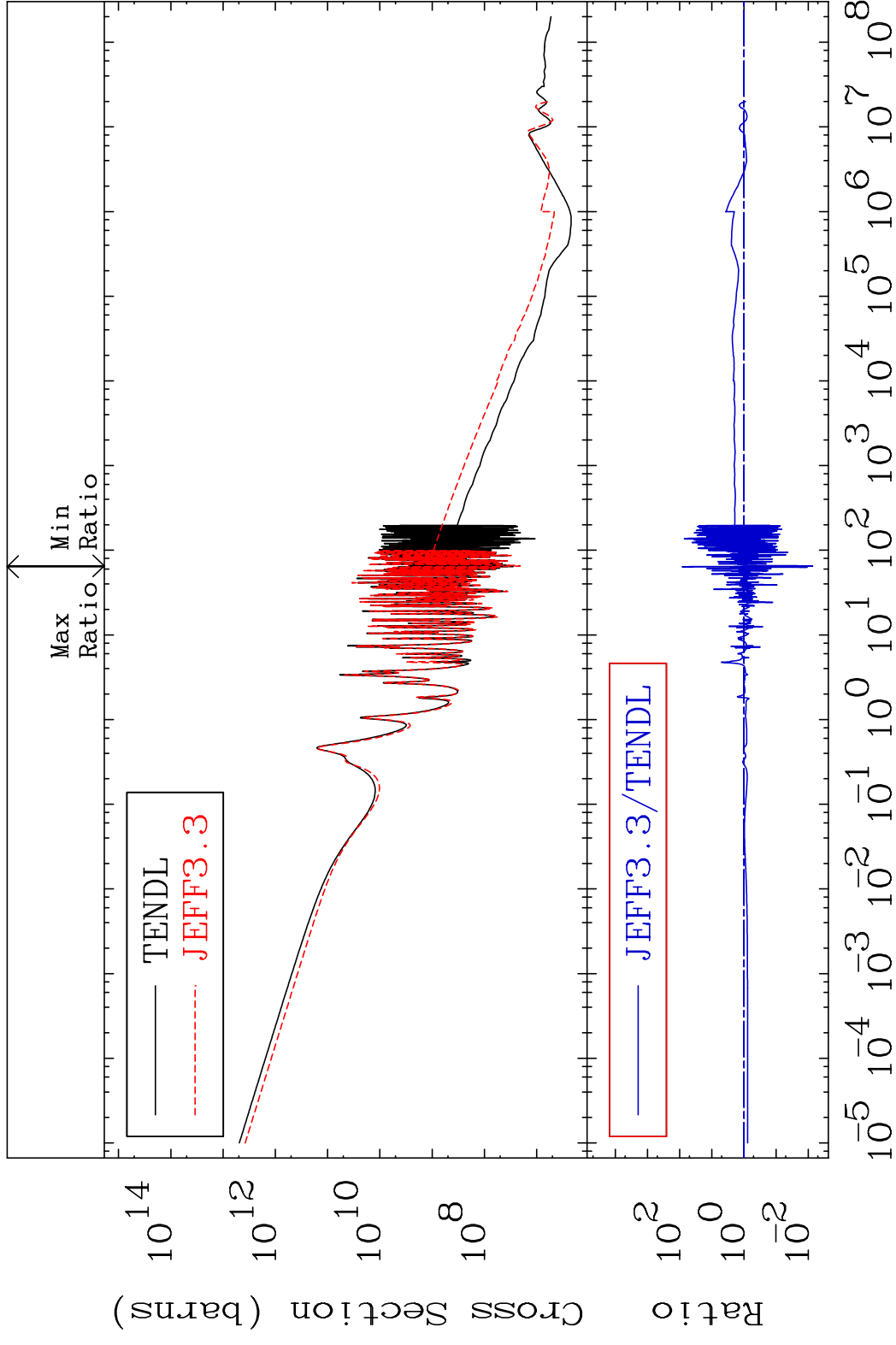
Ratio
 Cross Section (barns)

10⁸
 10⁶
 10⁴
 10²
 10⁰

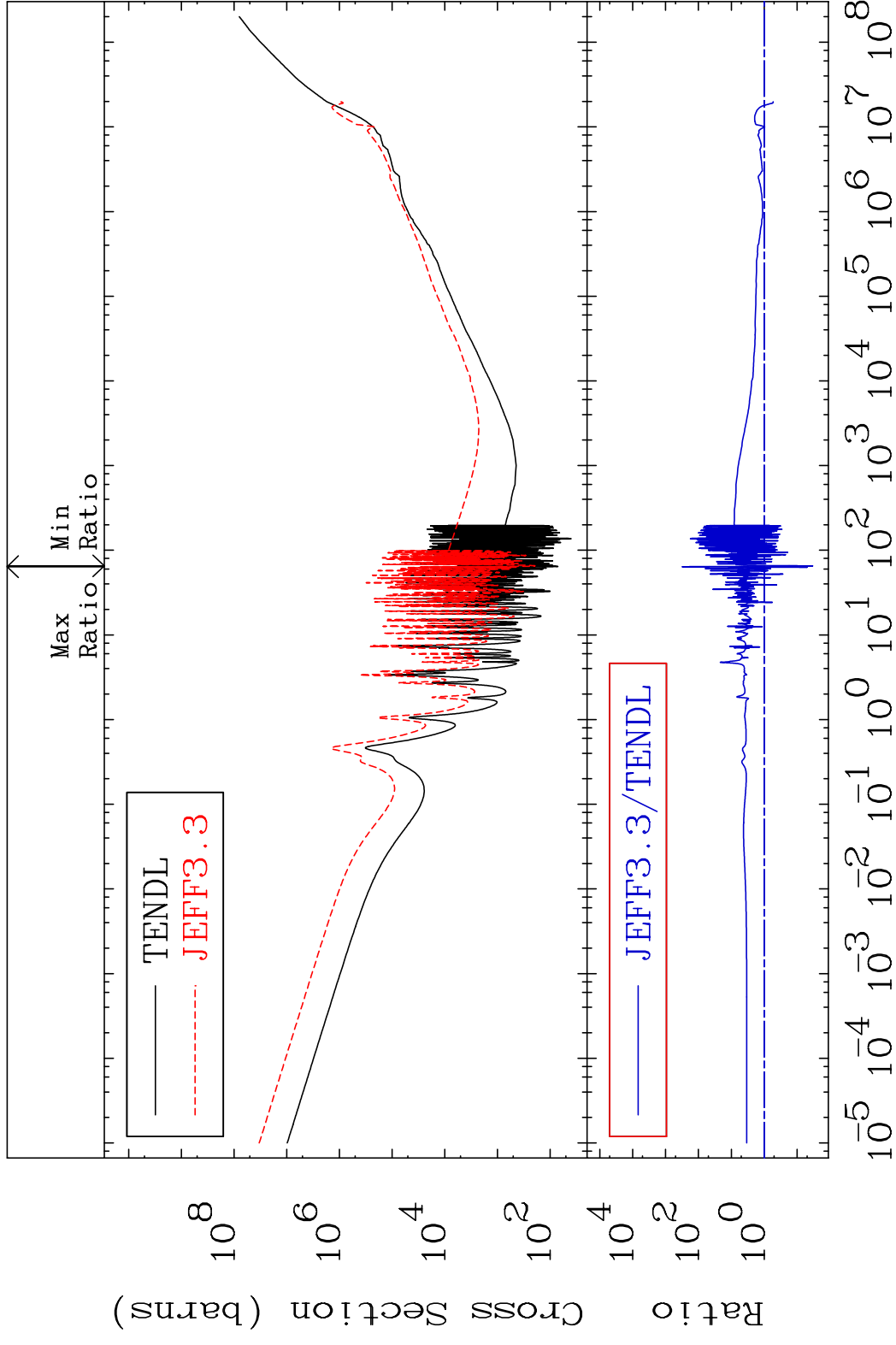
10⁸
 10⁴
 10⁰

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

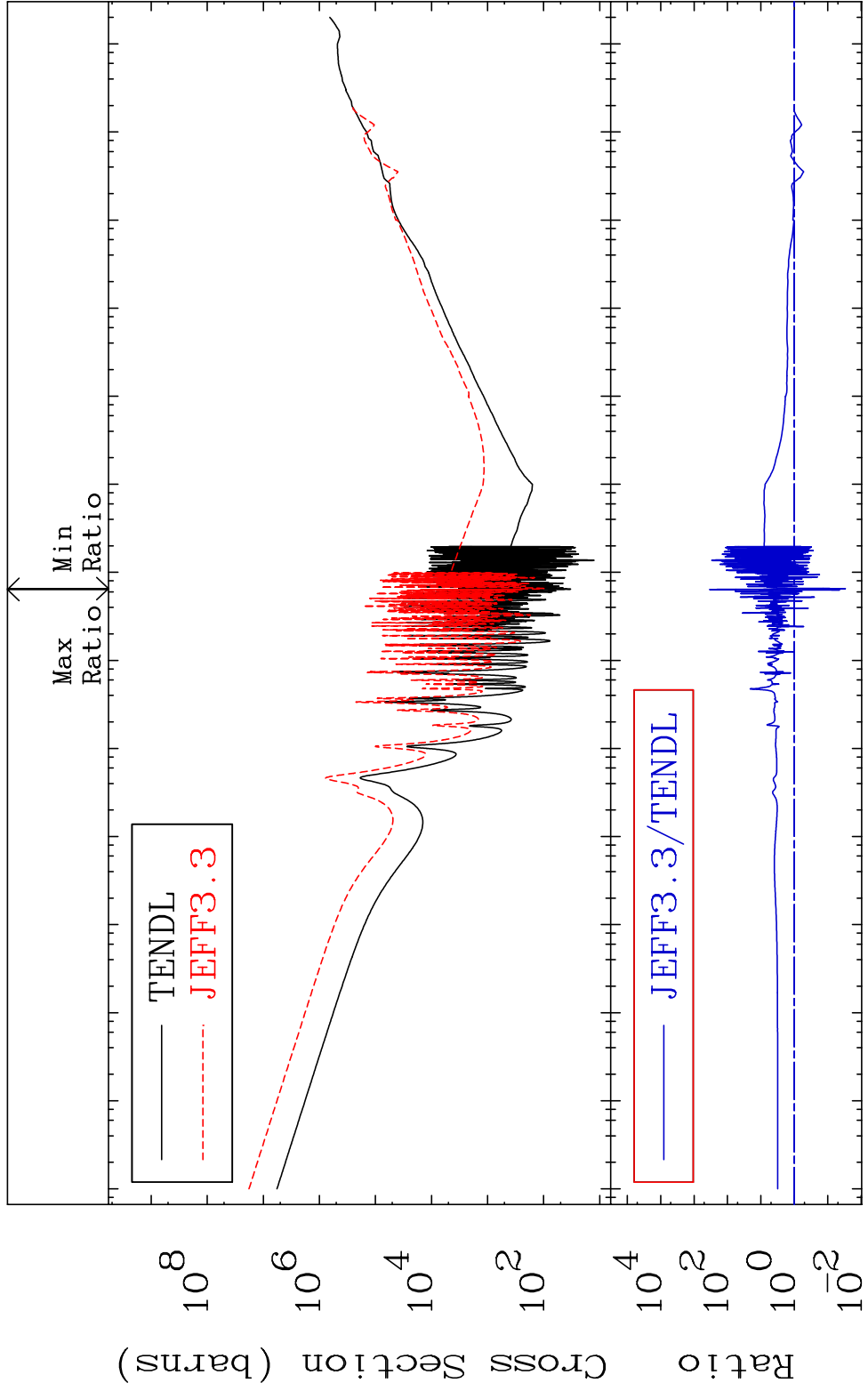
MAT 6325 Total photon (eV-barns) 63-Eu-151
 Cross Section -99.27 To 8173. %



MAT 6325 Total kinematic kerma (high limit) 63-Eu-151
 Cross Section -96.59 To 9999. %



MAT 6325 Dpa total (eV-barns) 63-Eu-151
 Cross Section -96.99 To 9999. %

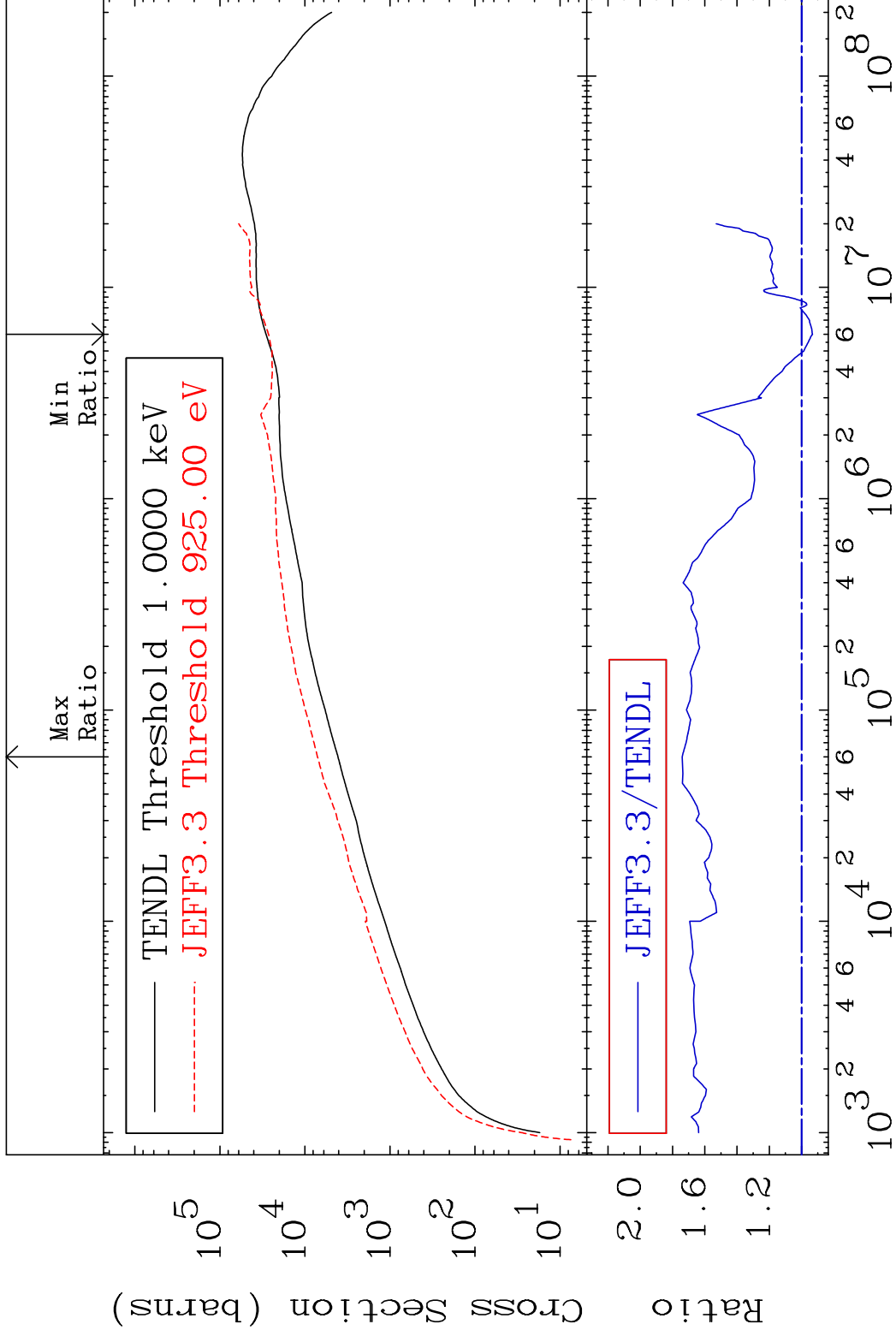


MAT 6325

Dpa elastic (mt2)

63-Eu-151

Cross Section -6.742 To 74.02 %

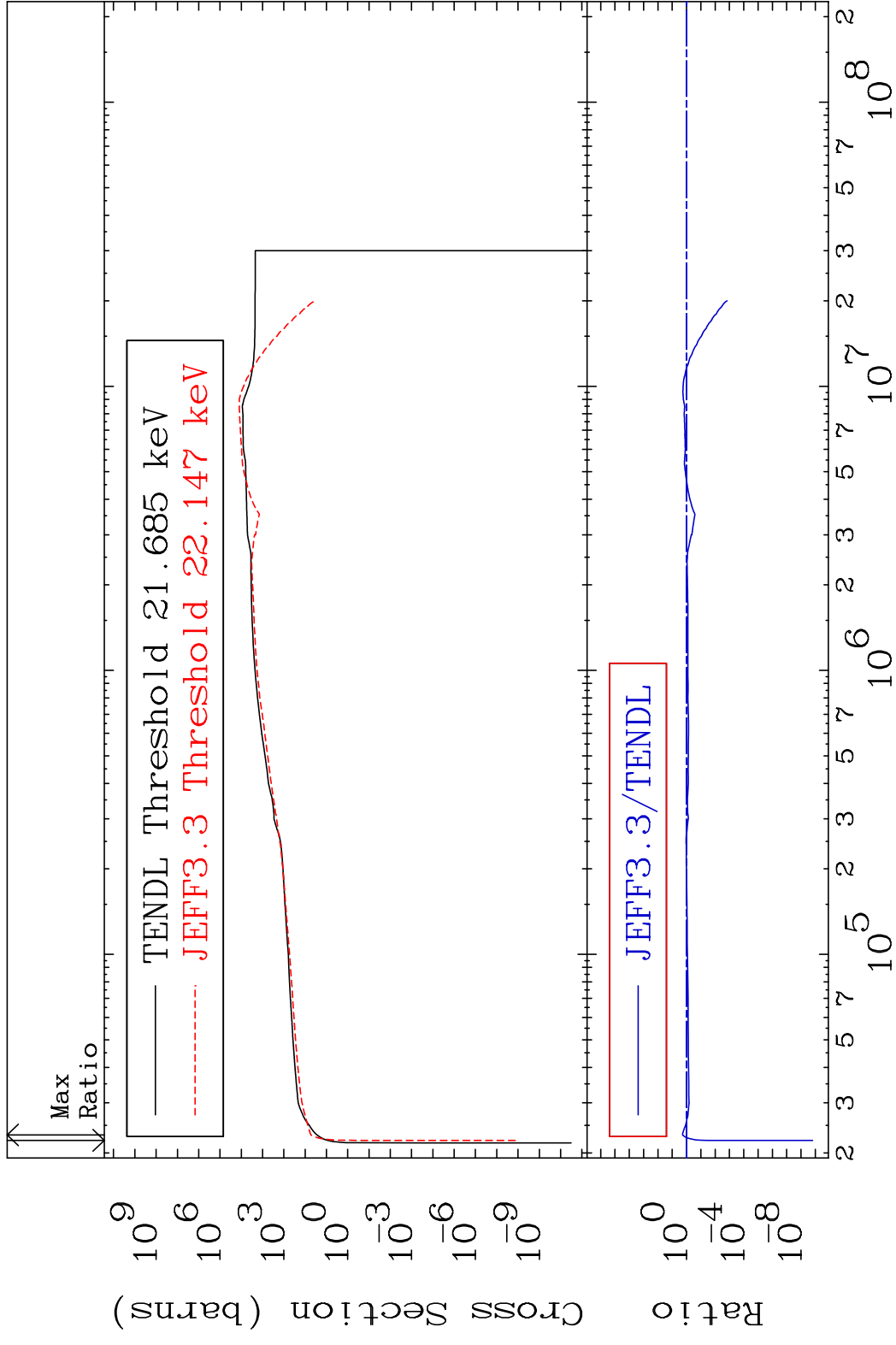


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Incident Energy (eV)

63-Eu-151

MAT 6325 Dpa inelastic (mt51-91) 63-Eu-151
 Cross Section -100.0 To 95.32 %



MAT 6325 Dpa disappearance (mt102 -120) 63-Eu-151
 Cross Section -96.99 To 9999. %

