

Program Complot
(Version 2018-1)

by

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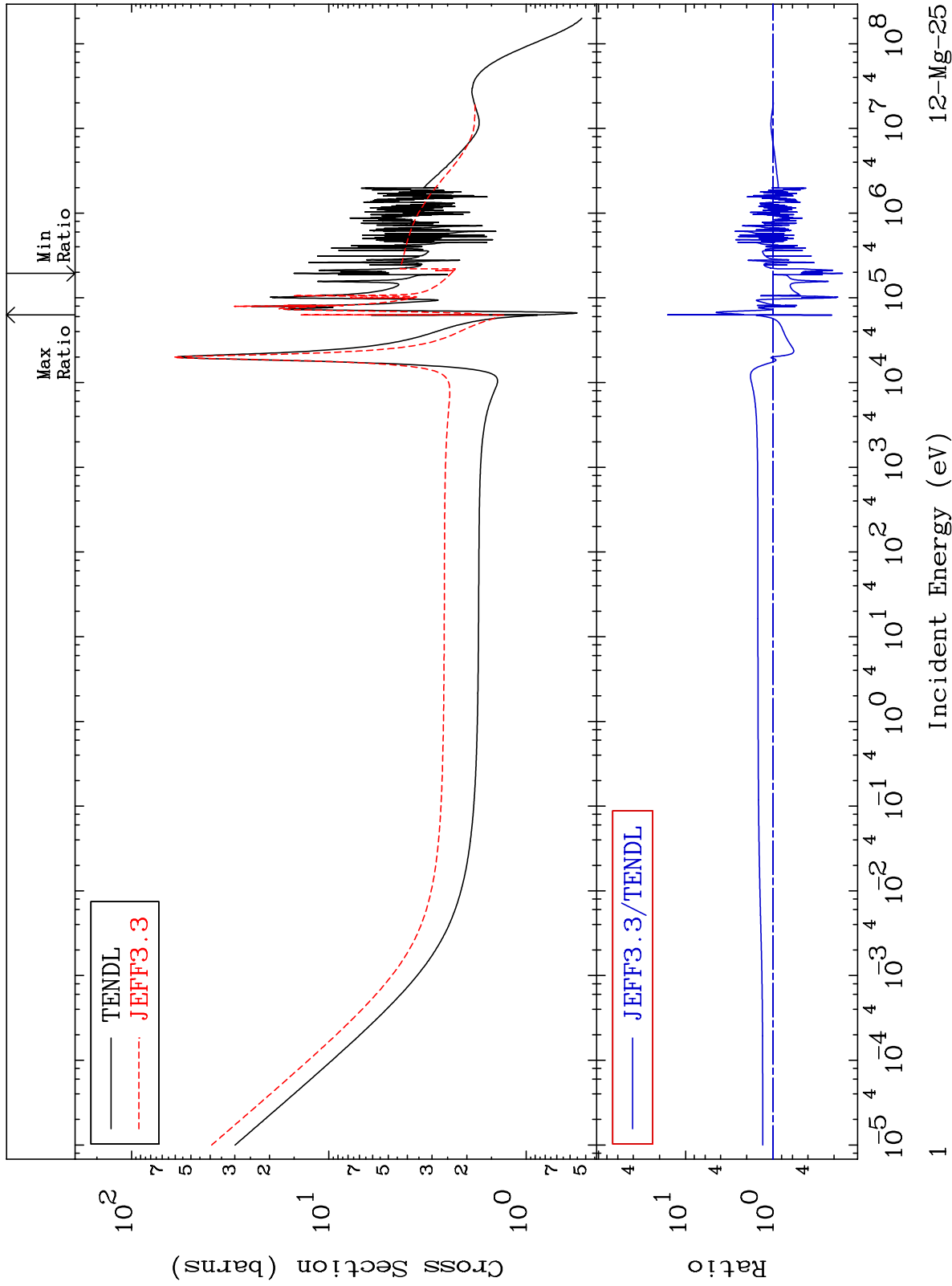
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 1228

Total
Cross Section

12-Mg-25
-84.03 To 1516. %

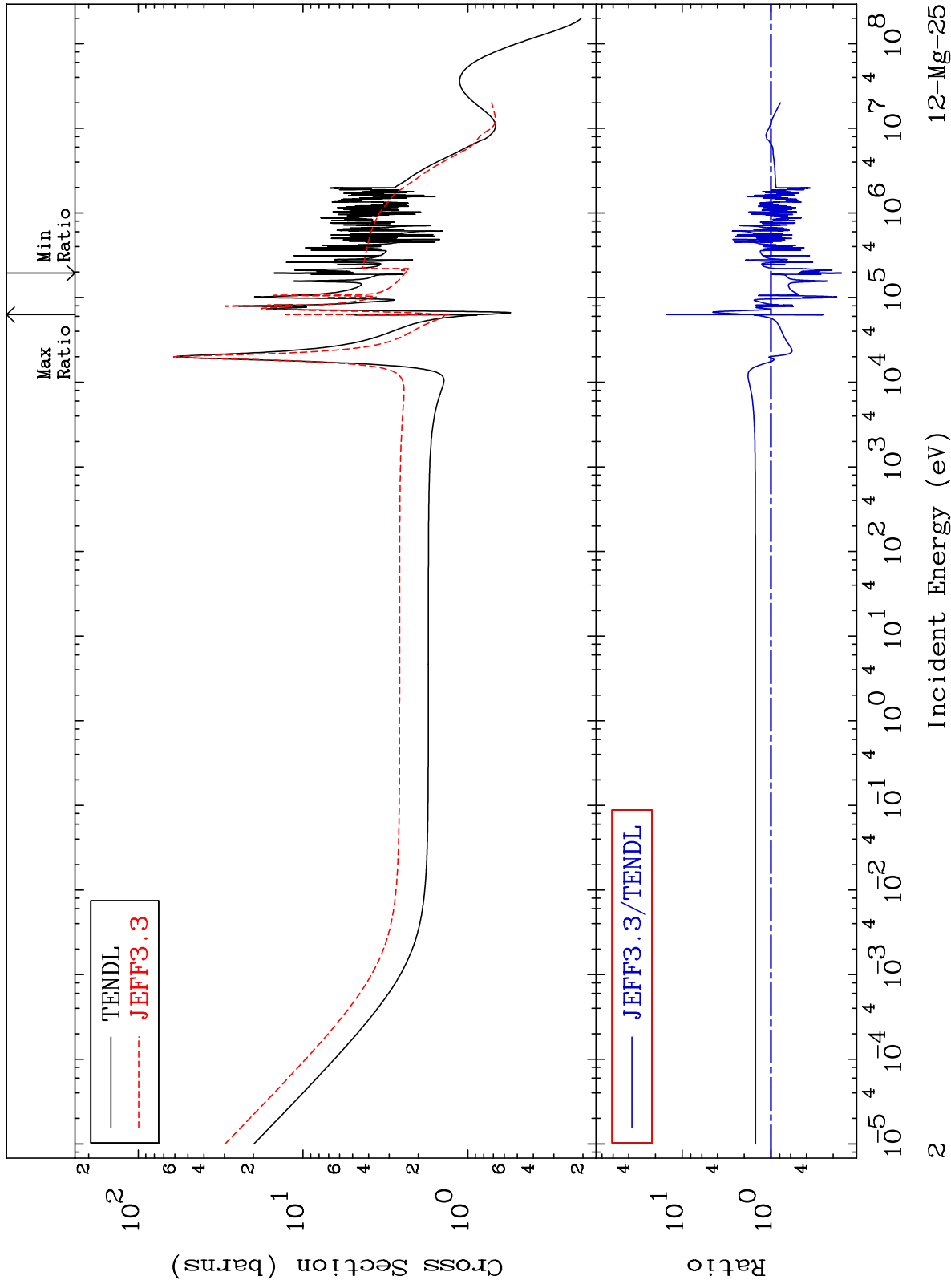


12-Mg-25

MAT 1228

Elastic
Cross Section

12-Mg-25
-84.03 To 1386. %



12-Mg-25

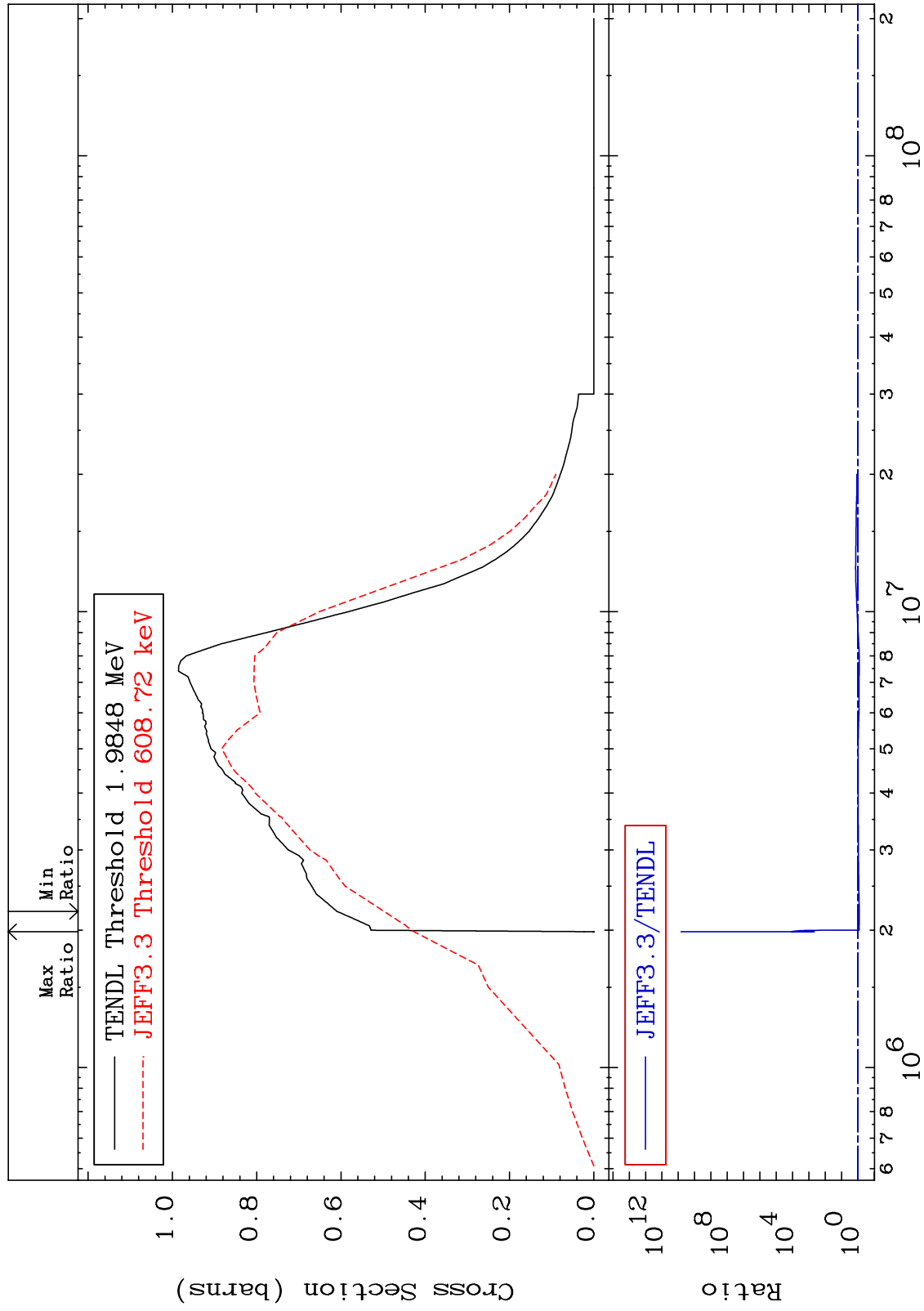
Incident Energy (eV)

2

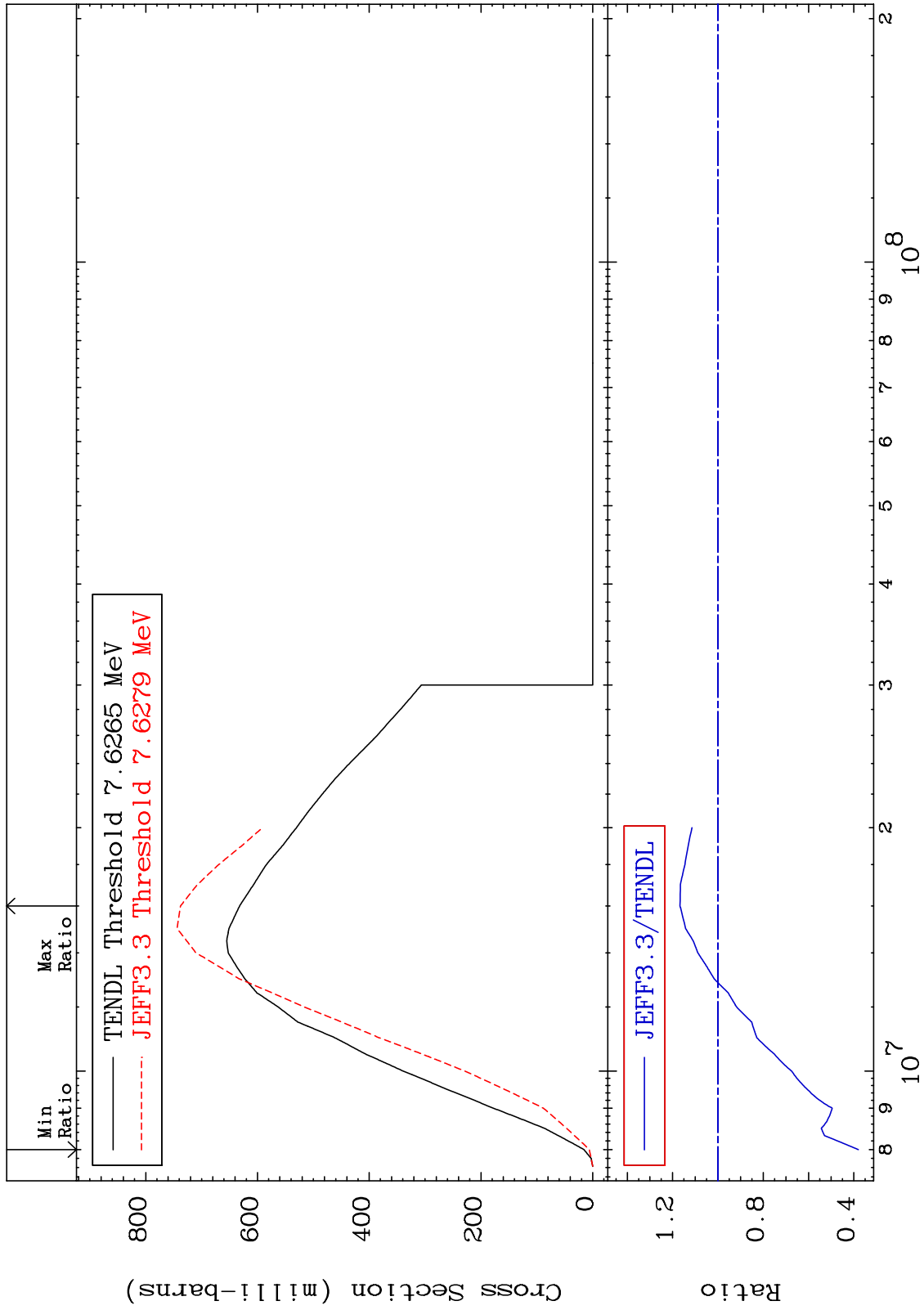
MAT 1228

Inelastic
Cross Section

12-Mg-25
-18.31 To 9999. %



MAT 1228 (n,2n) 12-Mg-25
Cross Section -62.01 To 16.73 %



4 12-Mg-25

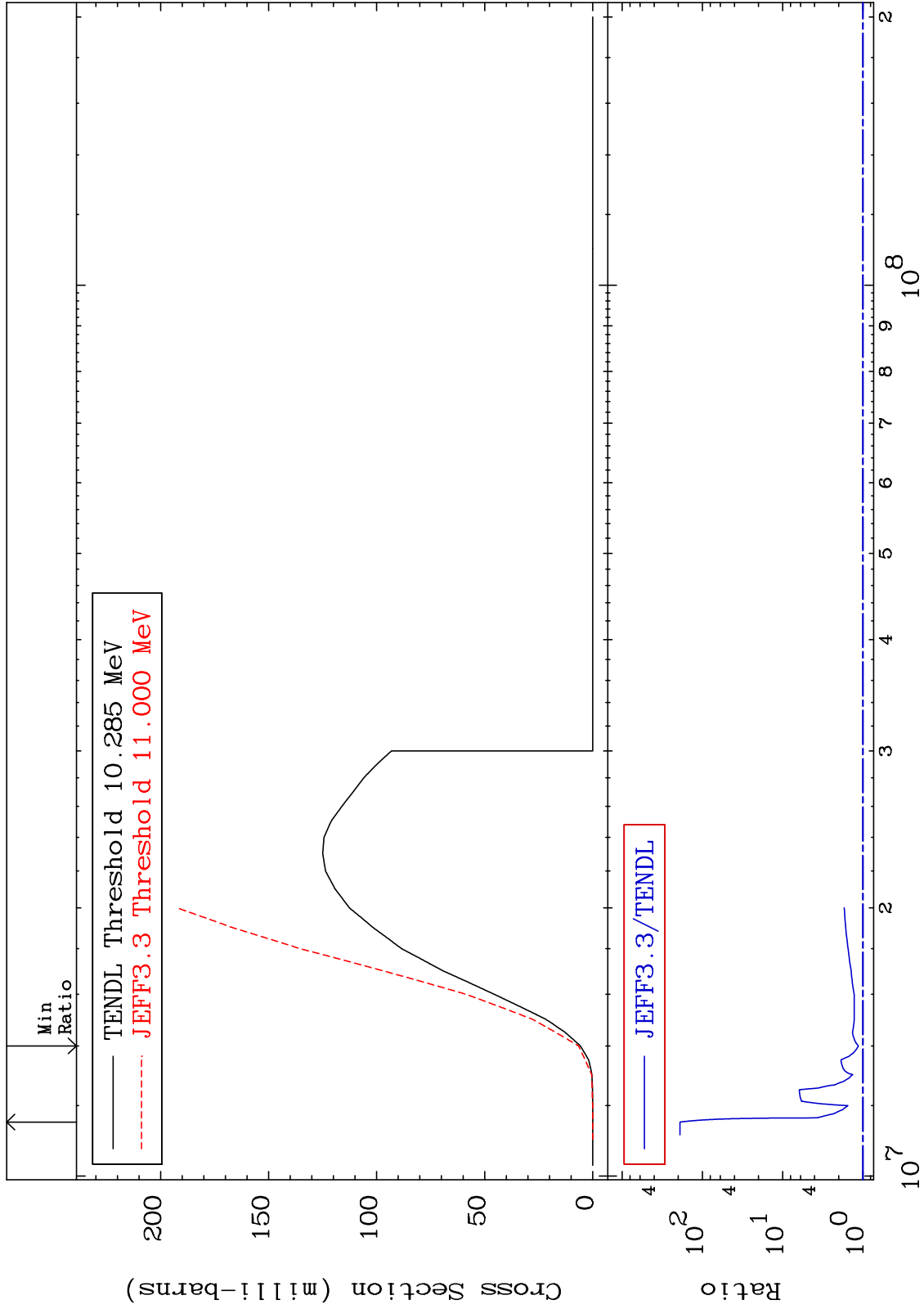
MAT 1228

(n,n') α

12-Mg-25

Cross Section

13.75 To 9999. %



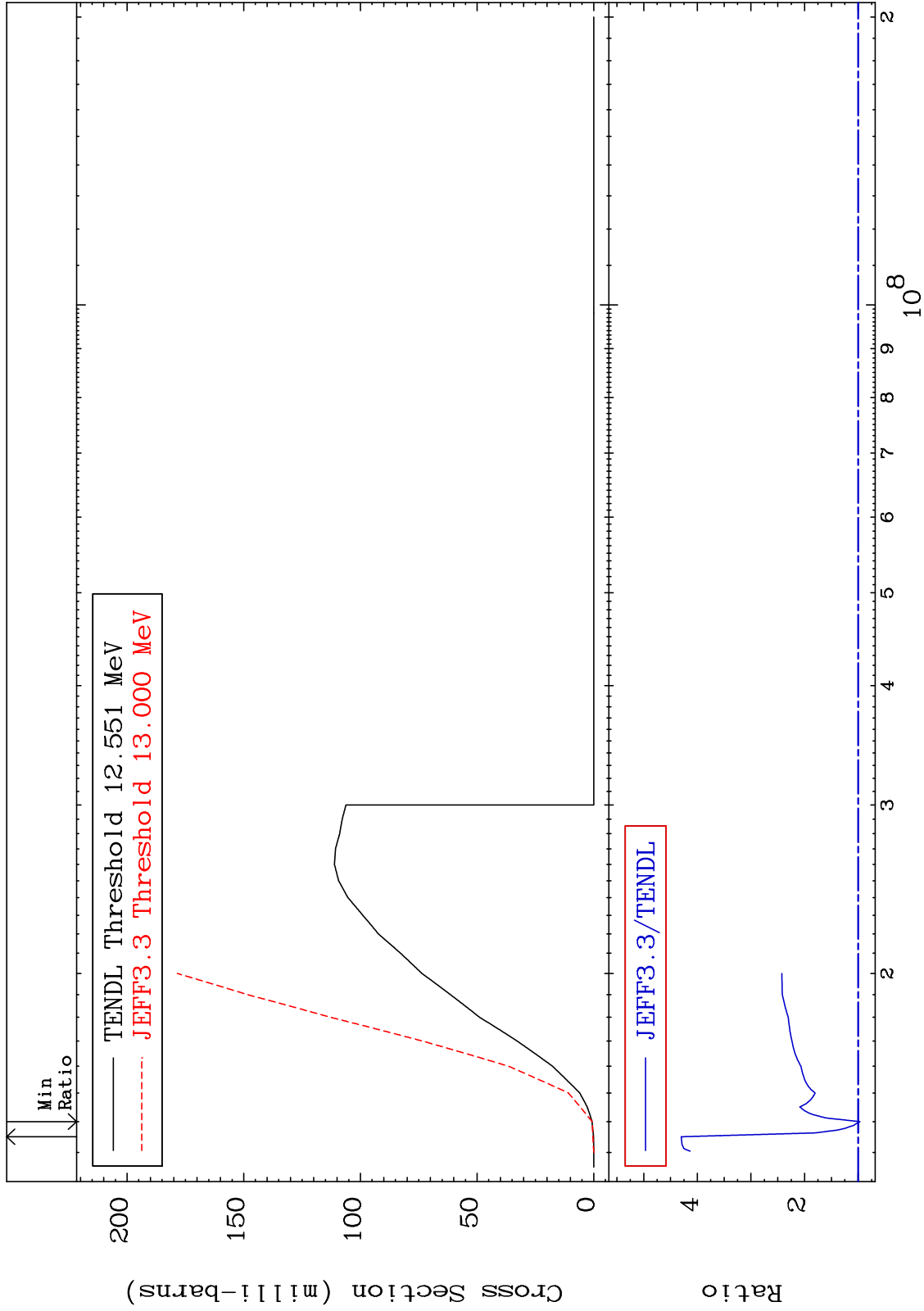
12-Mg-25

12-Mg-25

MAT 1228

(n,n') p
Cross Section

12-Mg-25
-3.220 To 330.0 %

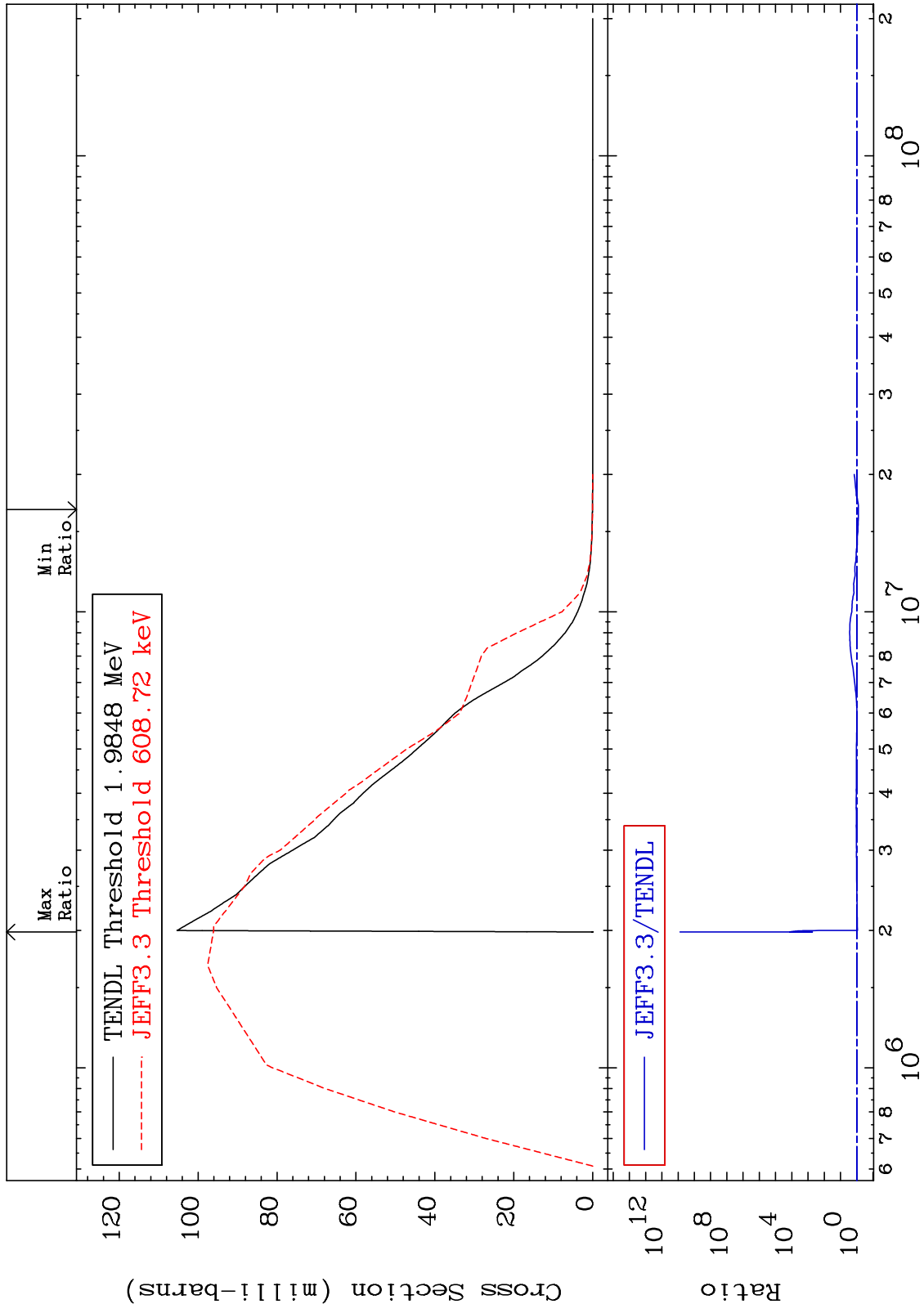


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Incident Energy (eV)

12-Mg-25

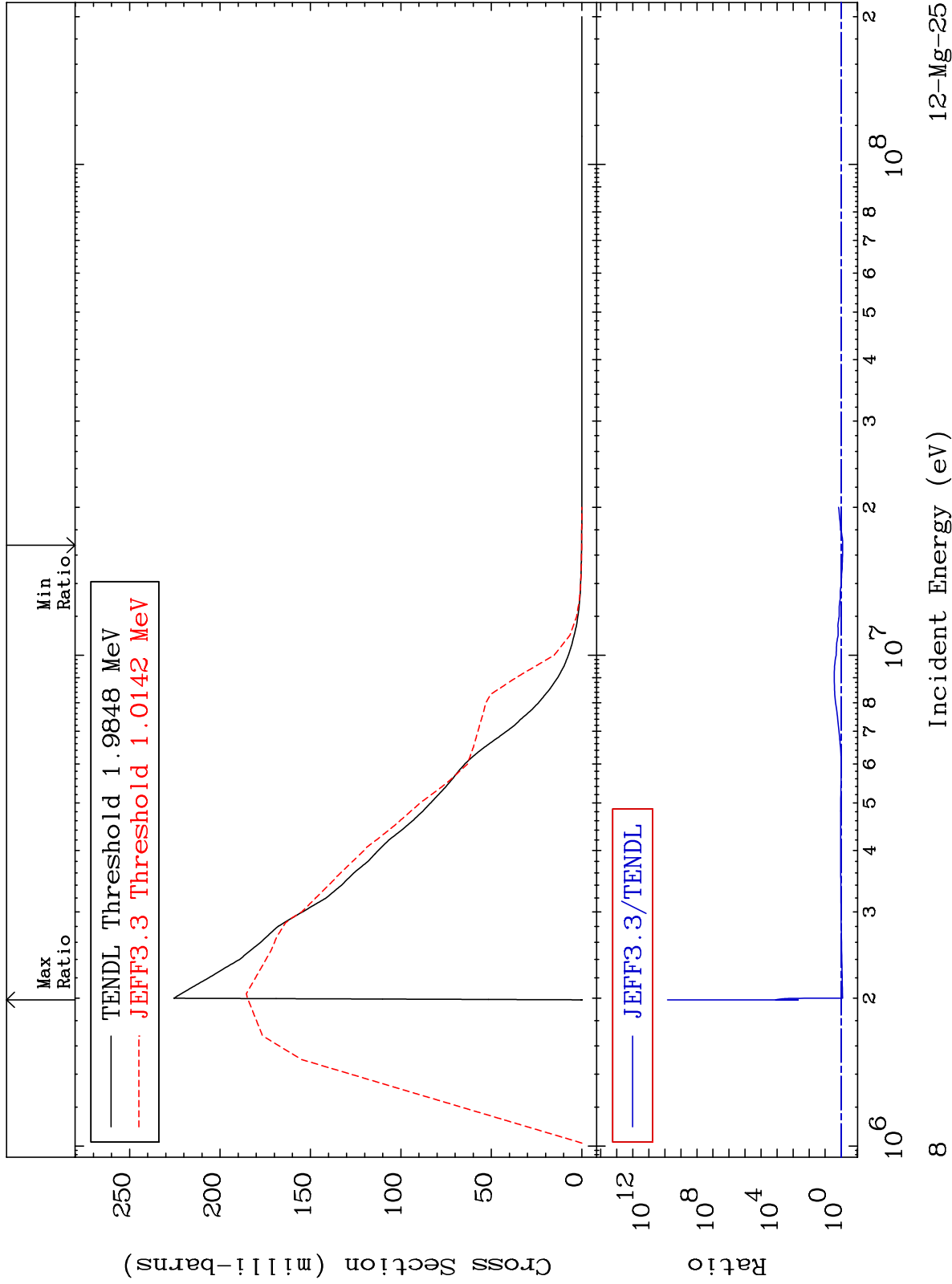
MAT 1228 MT= 51 (n, n') Level 12-Mg-25
 Cross Section -20.39 To 9999. %



MAT 1228

MT= 52 (n, n') Level
Cross Section

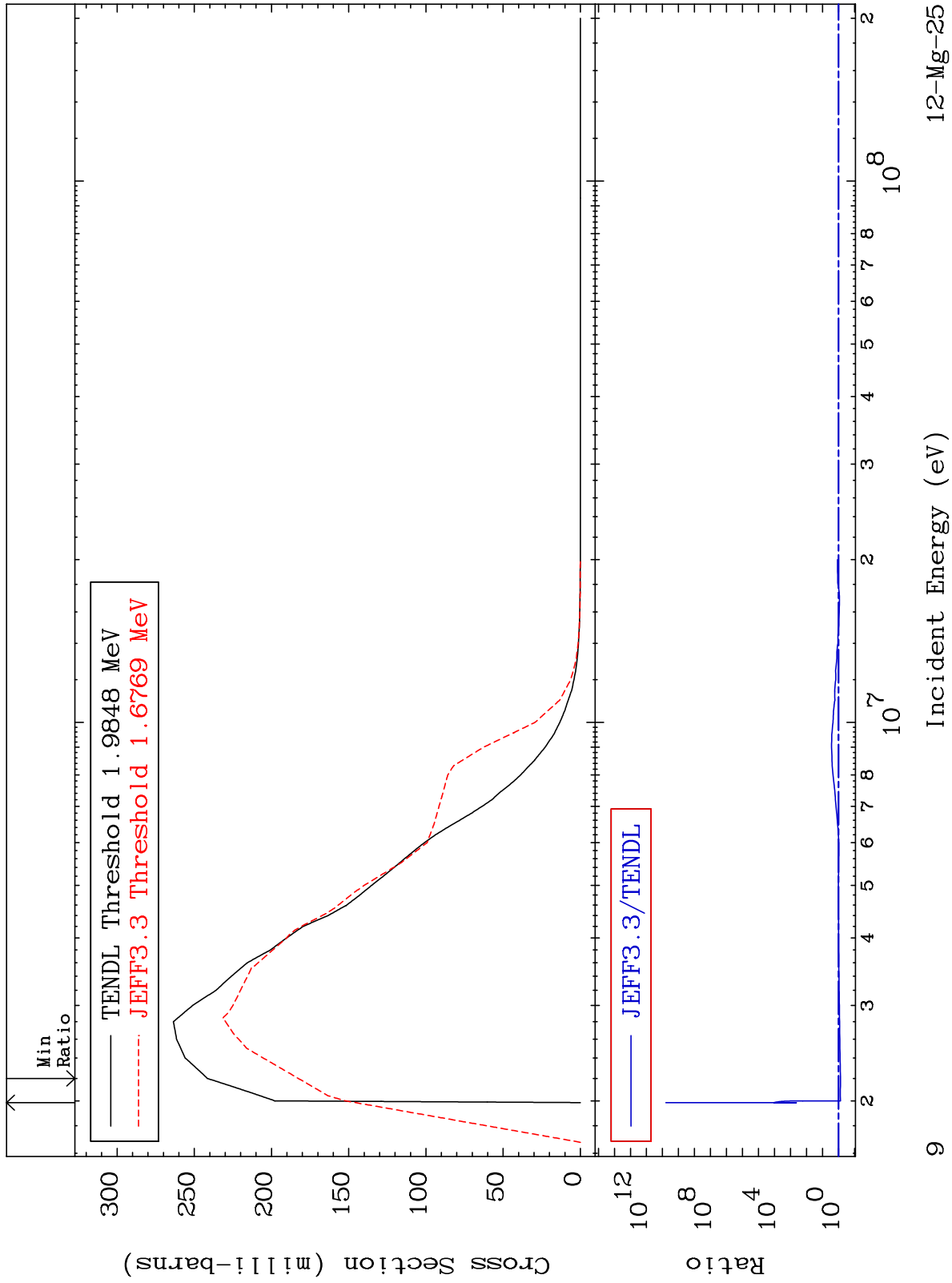
12-Mg-25
-19.15 To 9999. %



MAT 1228

MT= 53 (n,n') Level
Cross Section

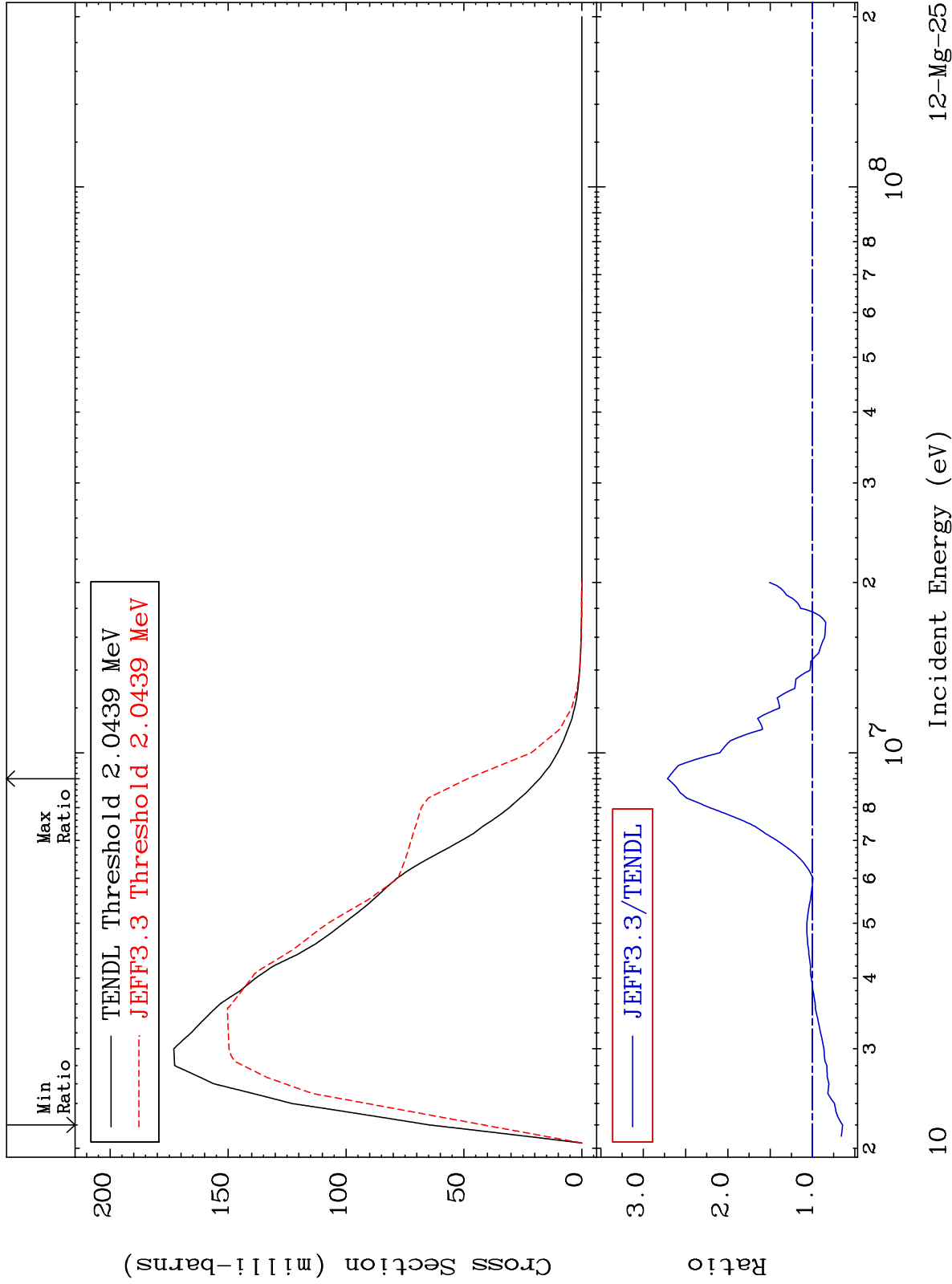
12-Mg-25
-24.40 To 9999. %



MAT 1228

MT= 54 (n,n') Level
Cross Section

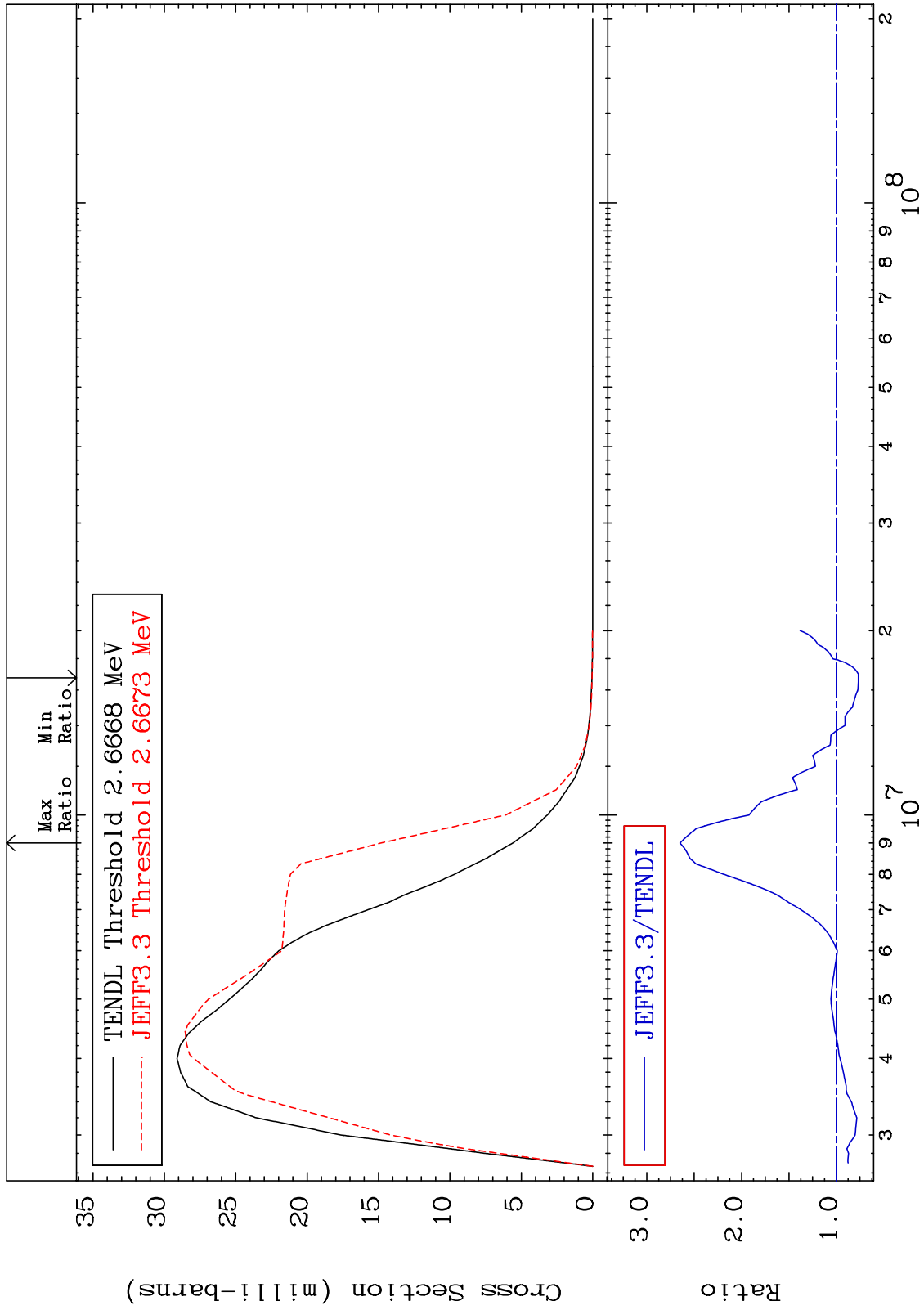
12-Mg-25
-35.63 To 171.3 %



MAT 1228

MT= 55 (n,n') Level
Cross Section

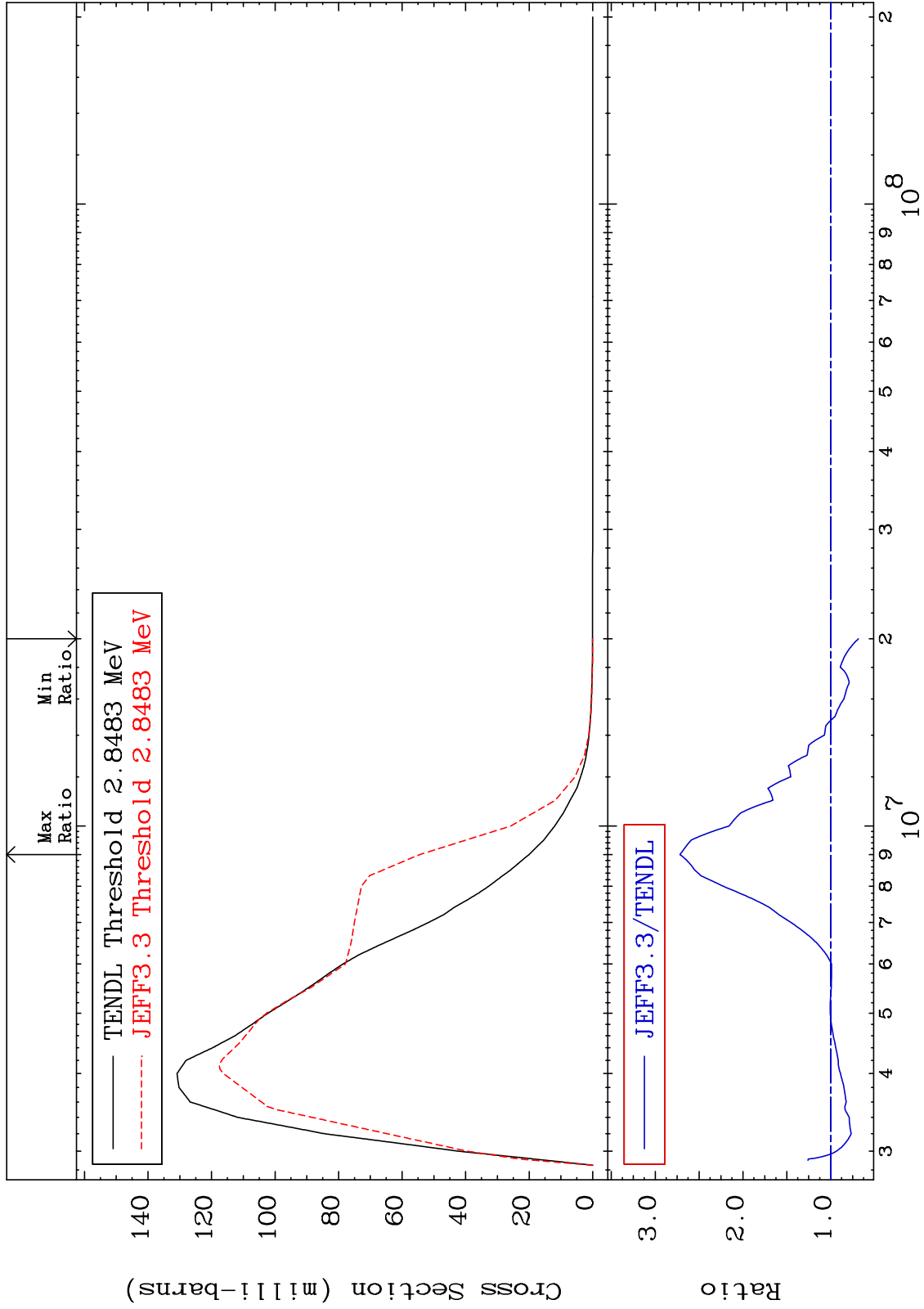
12-Mg-25
-23.34 To 165.0 %



MAT 1228

MT= 56 (n,n') Level
Cross Section

12-Mg-25
-31.64 To 171.7 %



12

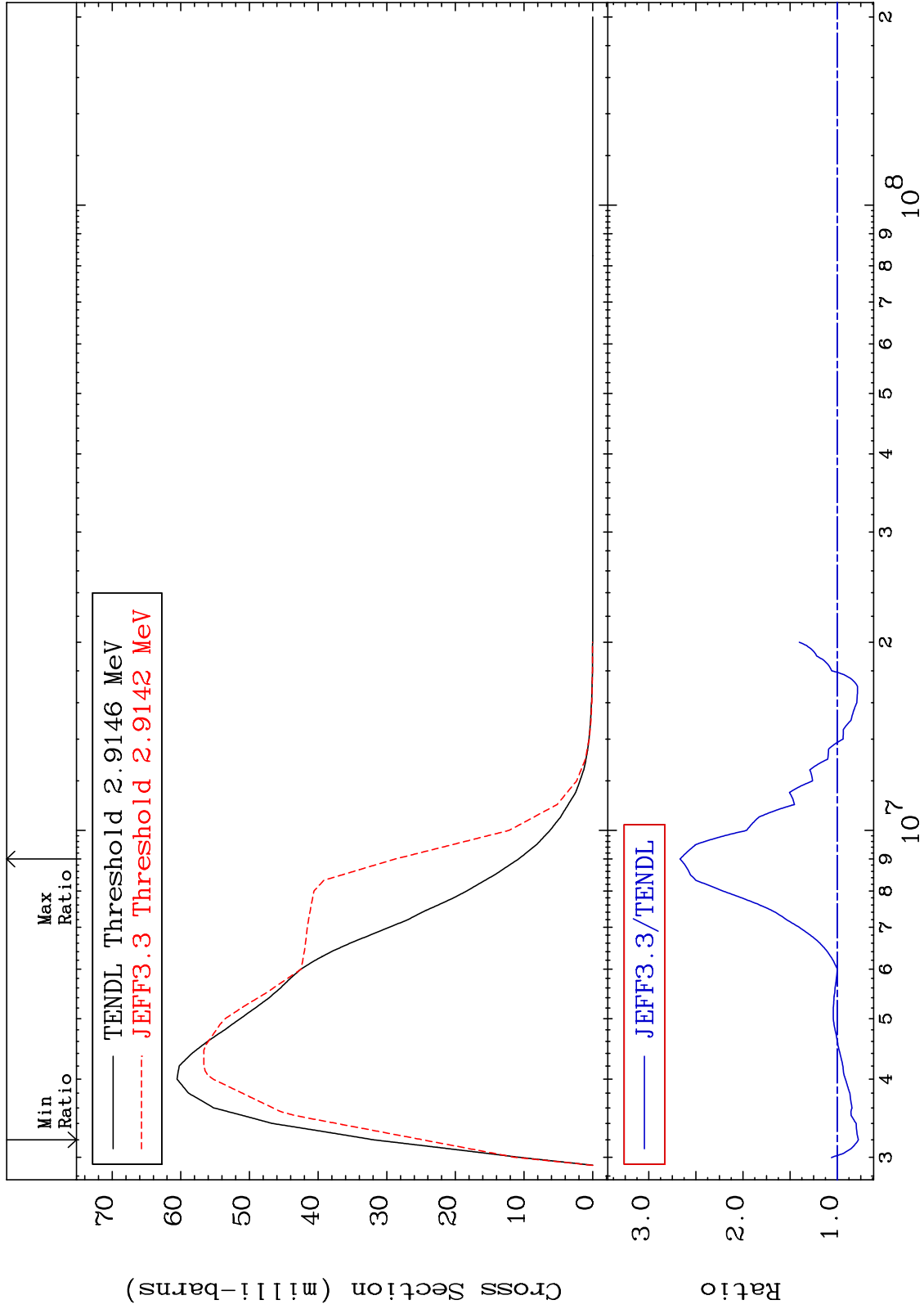
Incident Energy (eV)

12-Mg-25

MAT 1228

MT= 57 (n, n') Level
Cross Section

12-Mg-25
-22.47 To 166.8 %



13

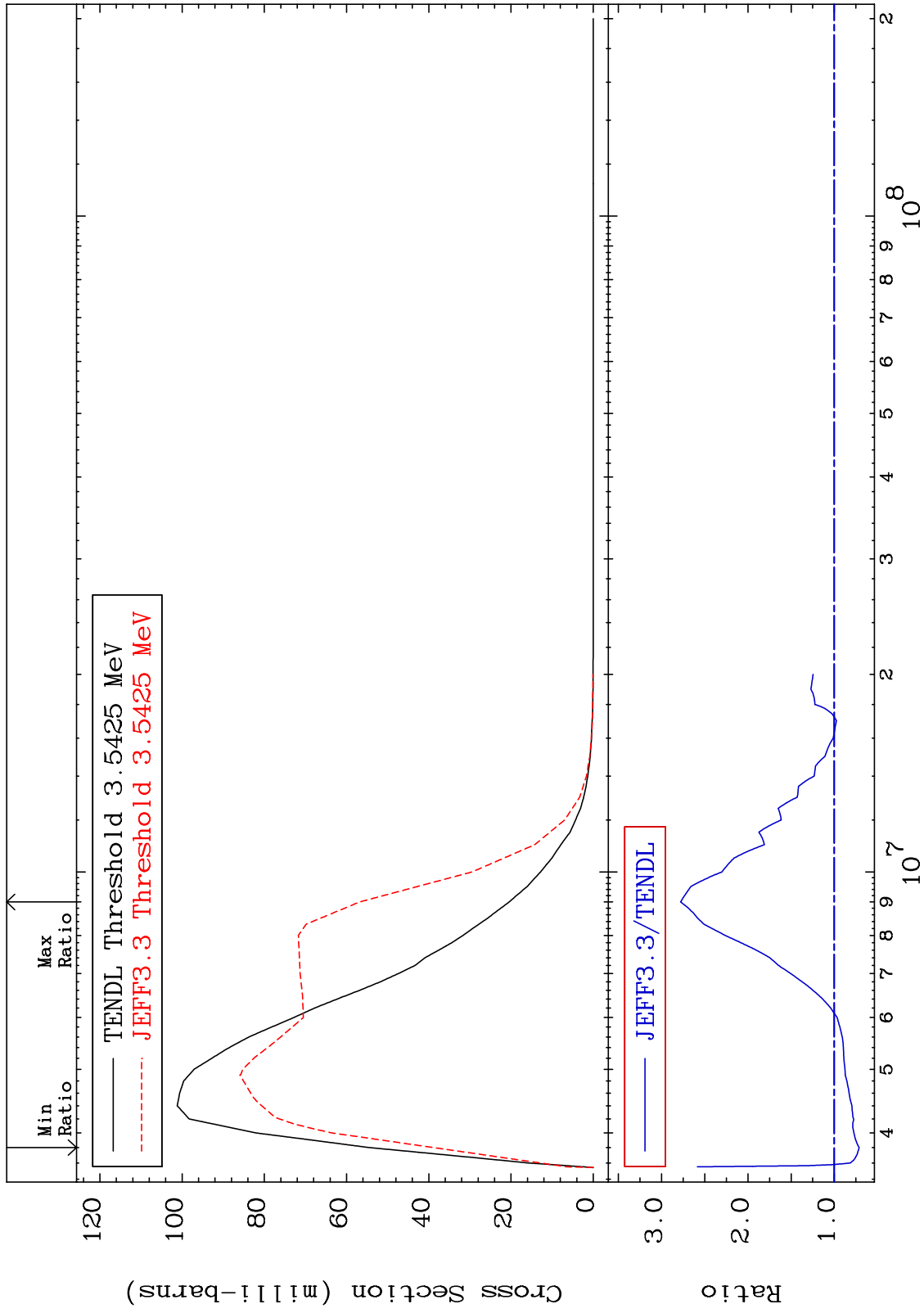
Incident Energy (eV)

12-Mg-25

MAT 1228

MT= 58 (n,n') Level
Cross Section

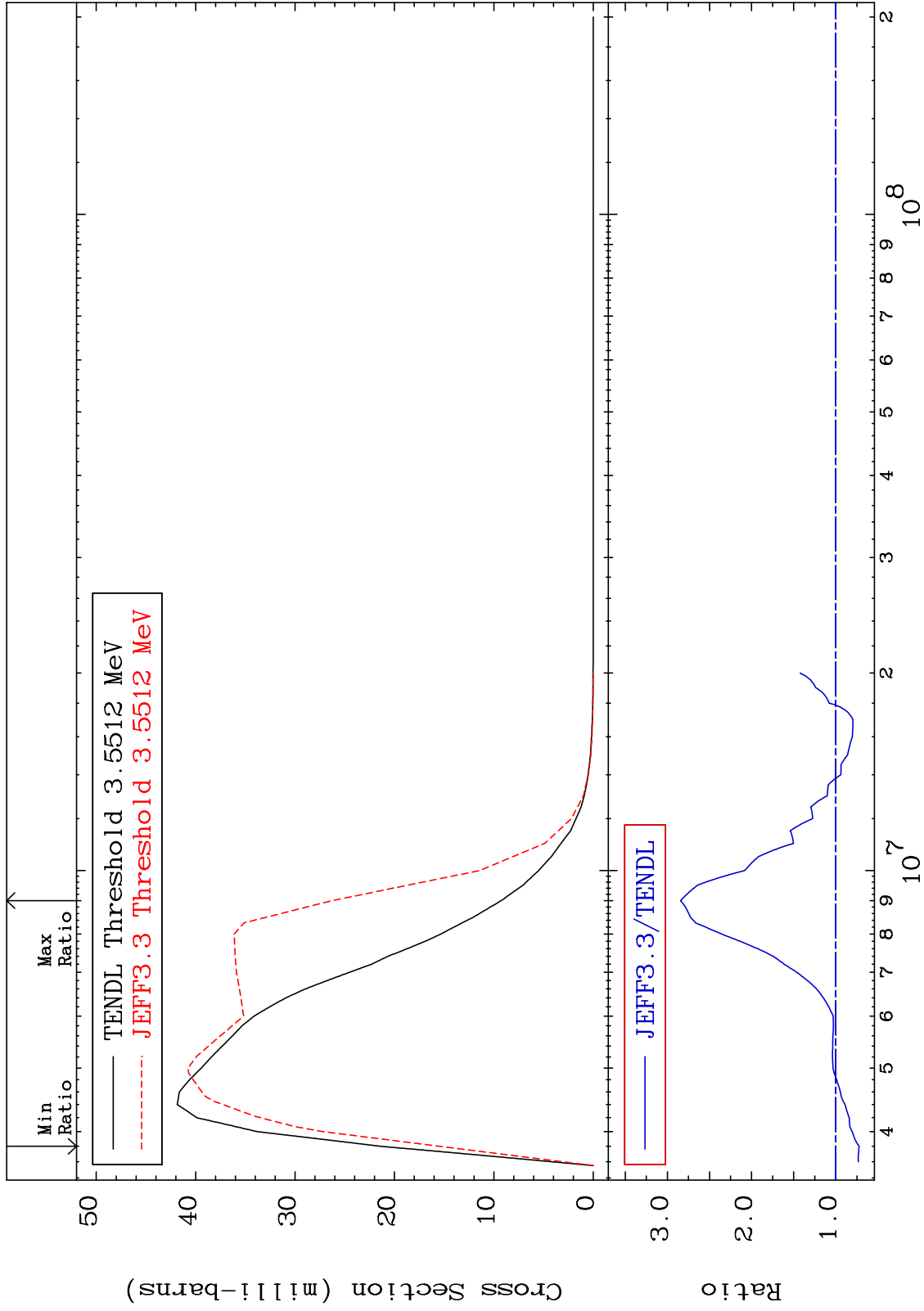
12-Mg-25
-28.78 To 177.9 %



MAT 1228

MT= 59 (n,n') Level
Cross Section

12-Mg-25
-27.75 To 184.3 %



15

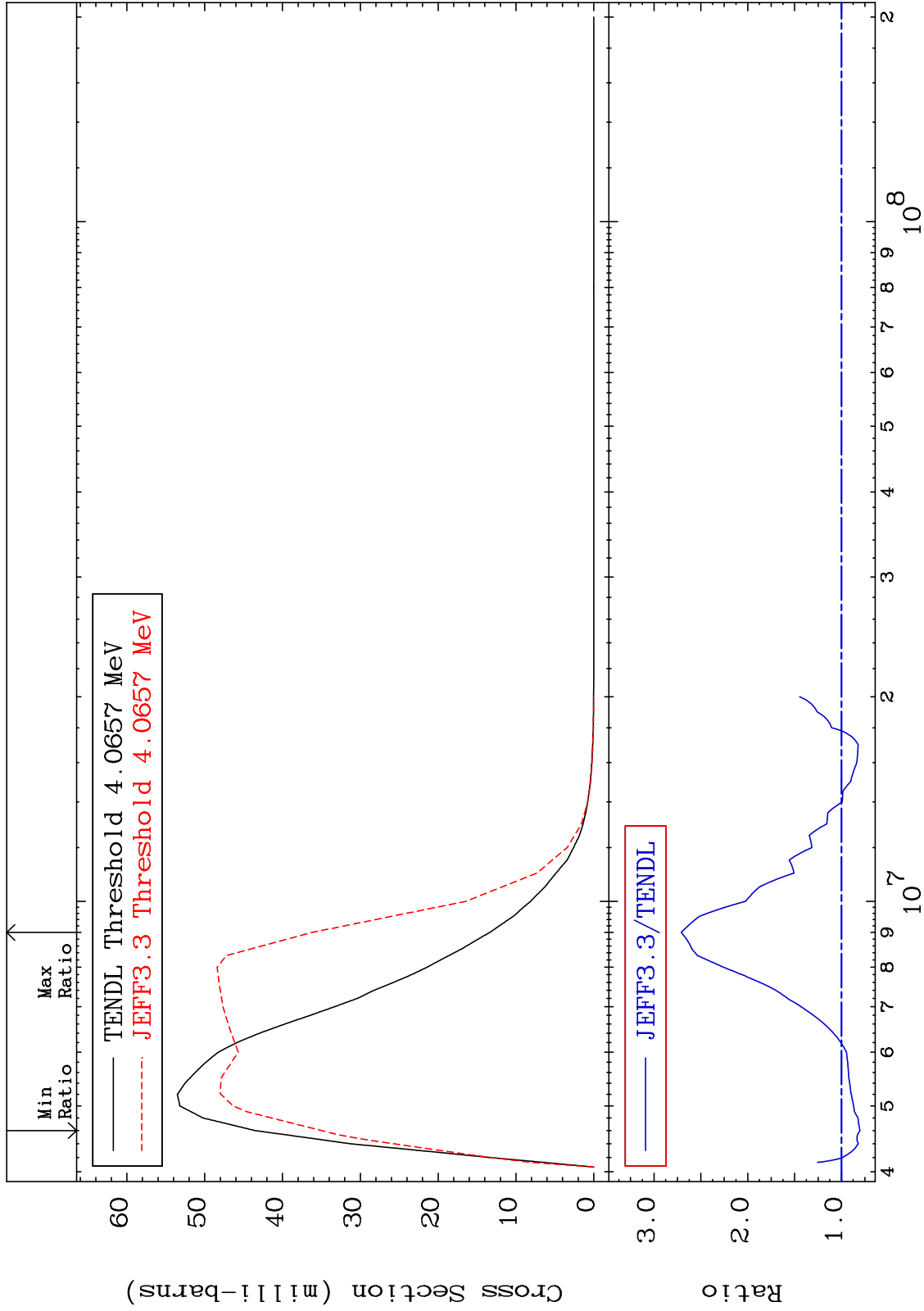
12-Mg-25

12-Mg-25

MAT 1228

MT= 60 (n,n') Level
Cross Section

12-Mg-25
-19.66 To 170.9 %

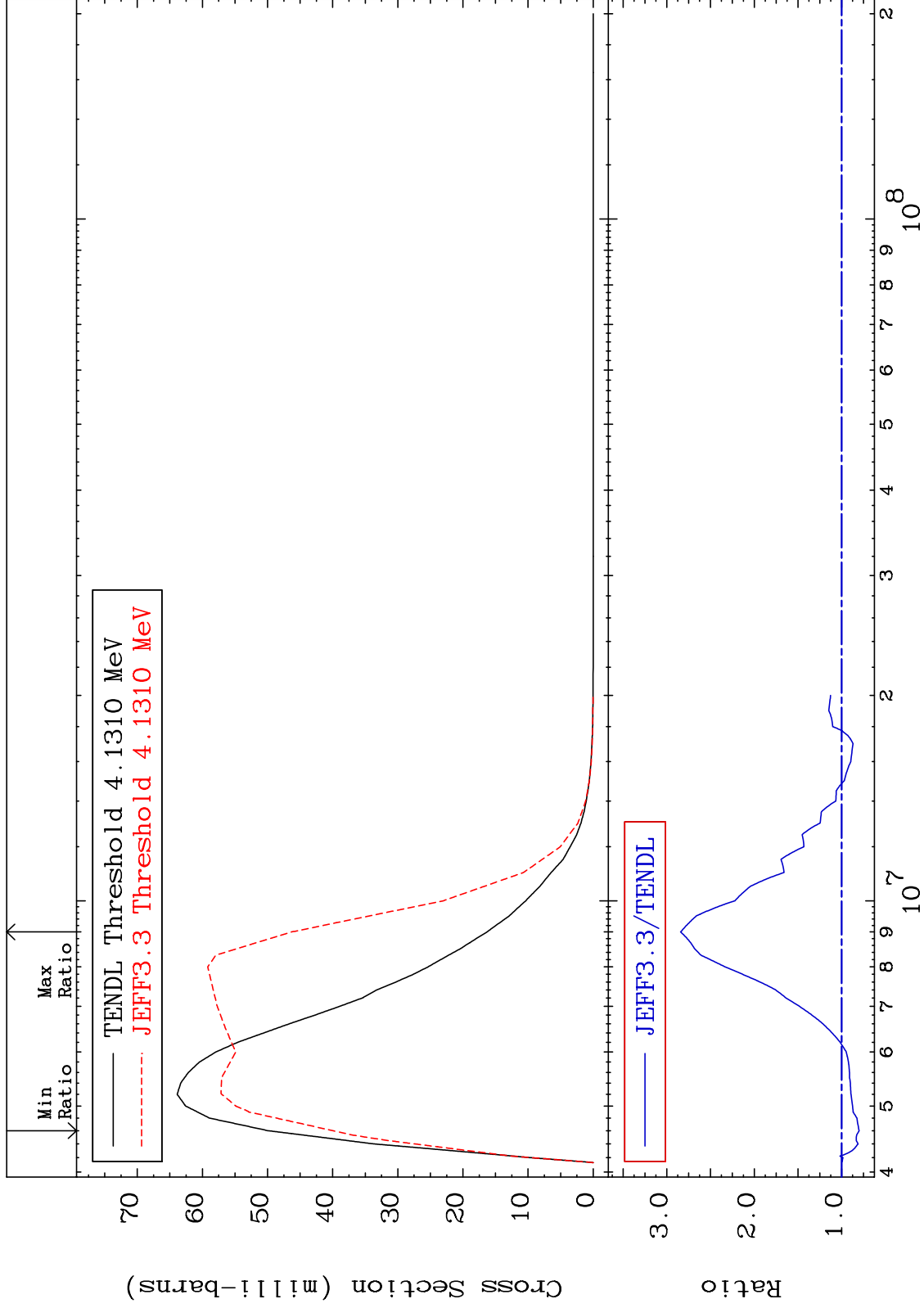


16

MAT 1228

MT= 61 (n,n') Level
Cross Section

12-Mg-25
-19.99 To 184.2 %



17

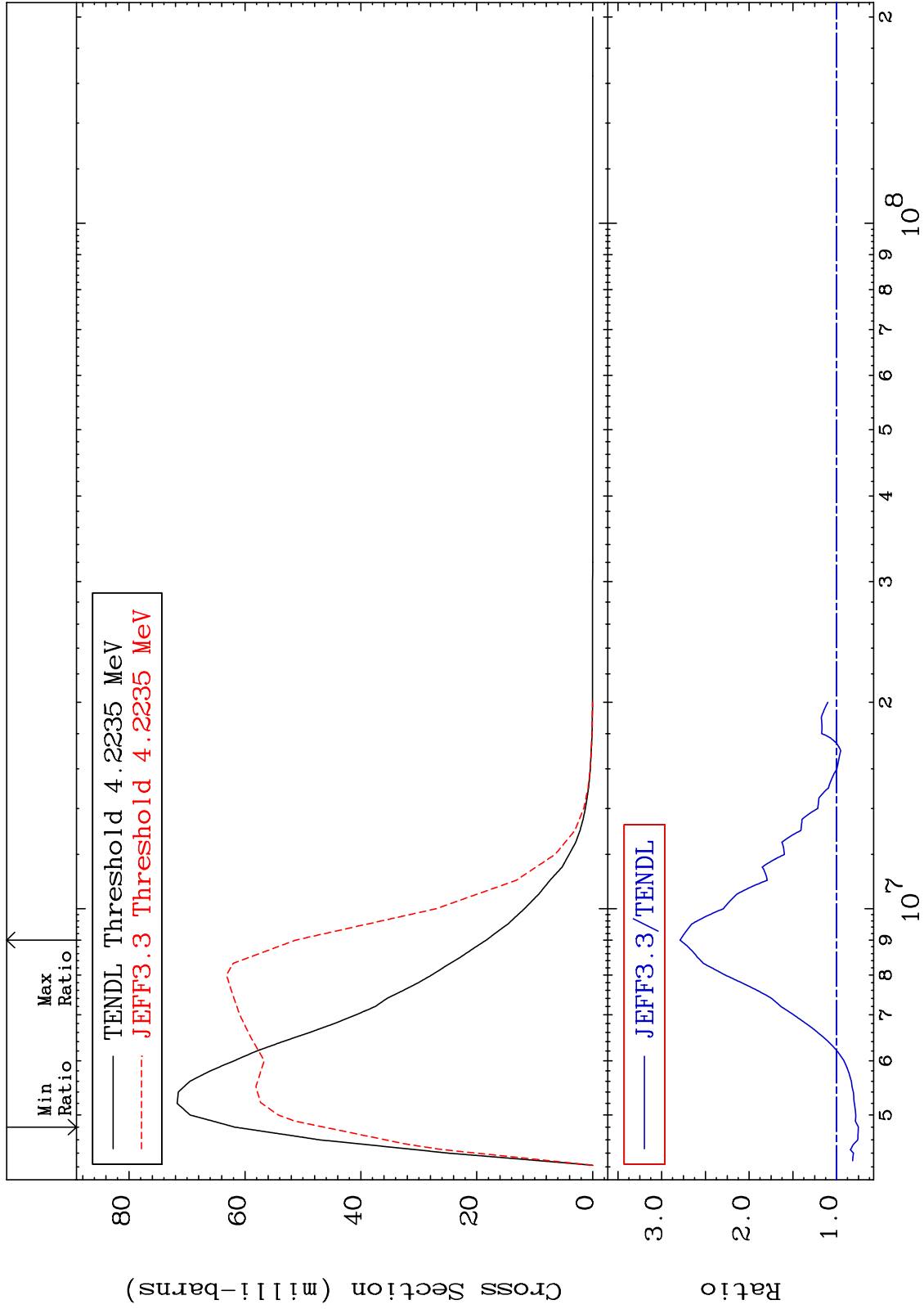
Incident Energy (eV)

12-Mg-25

MAT 1228

MT= 62 (n,n') Level
Cross Section

12-Mg-25
-24.90 To 179.0 %



18

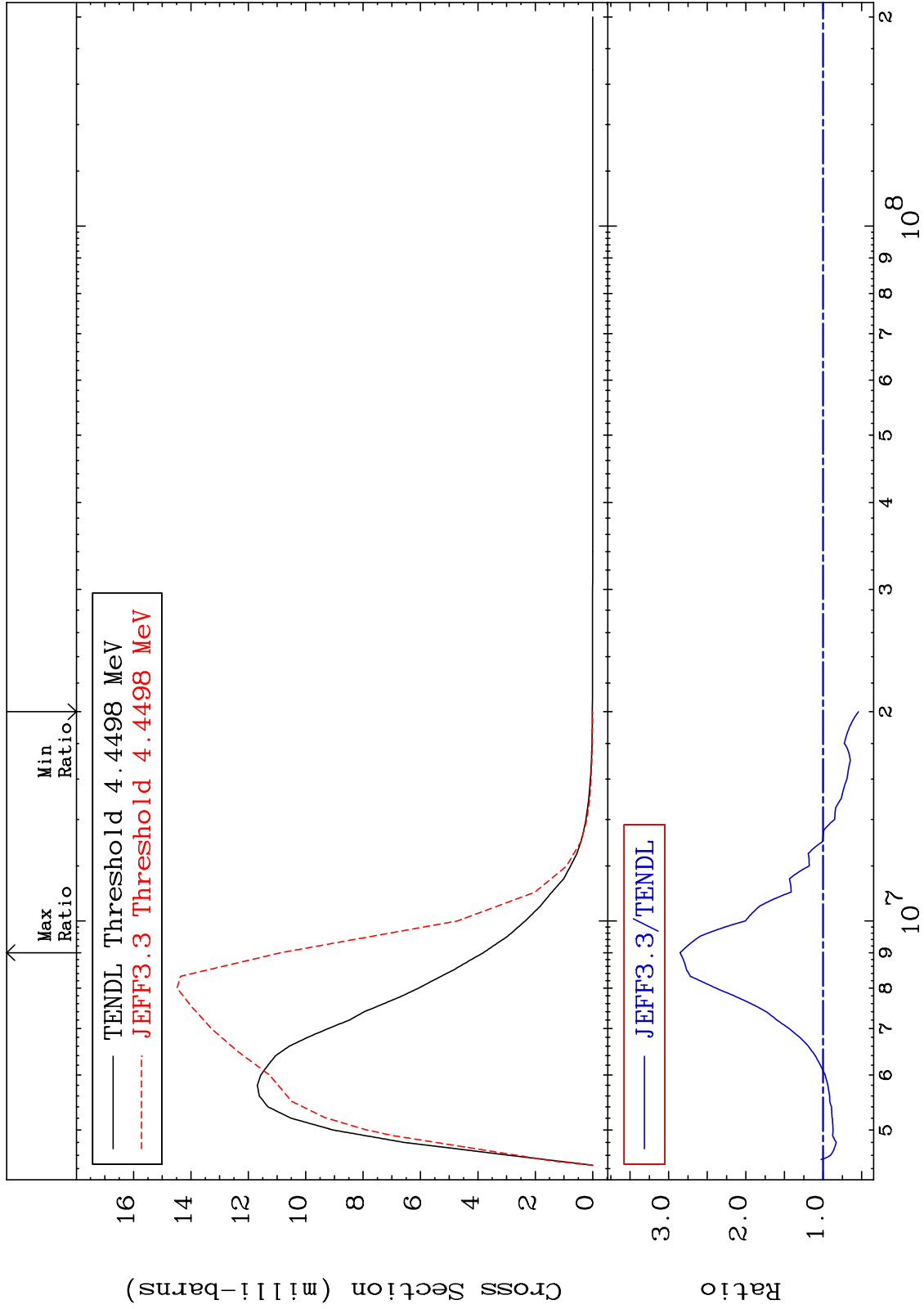
Incident Energy (eV)

12-Mg-25

MAT 1228

MT= 63 (n,n') Level
Cross Section

12-Mg-25
-45.70 To 185.3 %



19

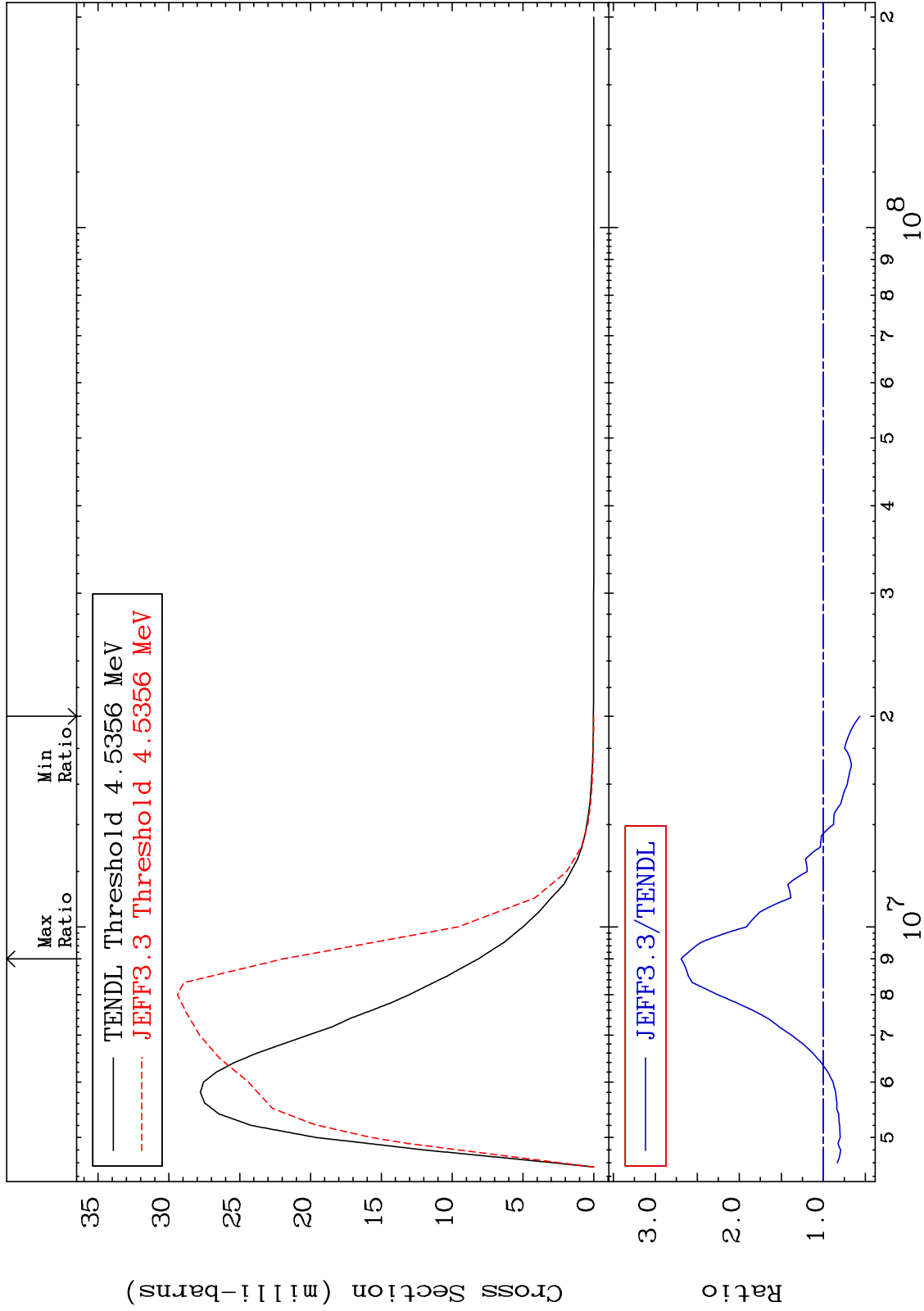
Incident Energy (eV)

12-Mg-25

MAT 1228

MT= 64 (n,n') Level
Cross Section

12-Mg-25
-43.57 To 169.2 %

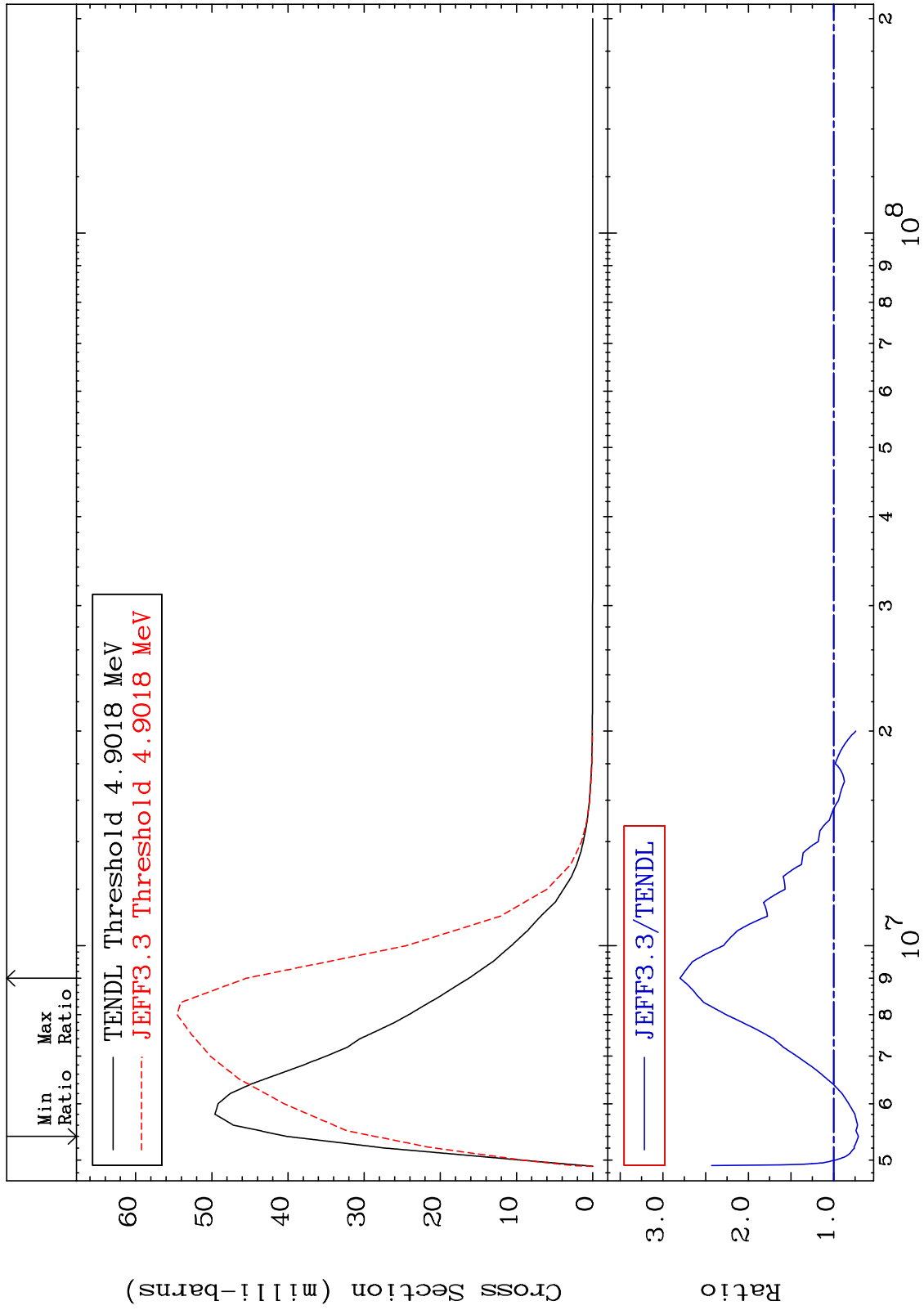


20

Incident Energy (eV)

12-Mg-25

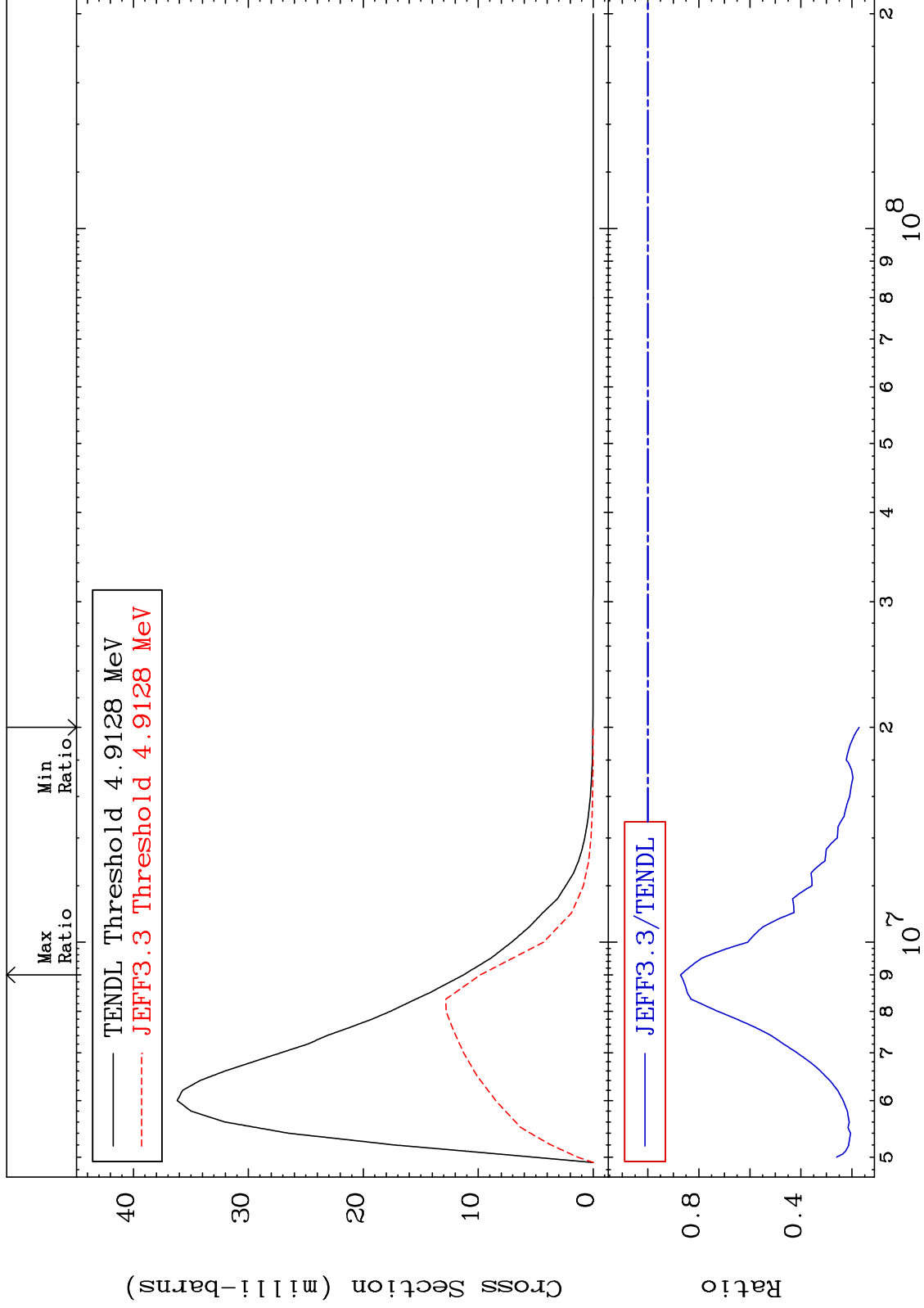
MAT 1228 MT= 65 (n,n') Level Cross Section 12-Mg-25 -28.90 To 180.0 %



MAT 1228

MT= 66 (n,n') Level
Cross Section

12-Mg-25
-82.83 To -12.86%



22

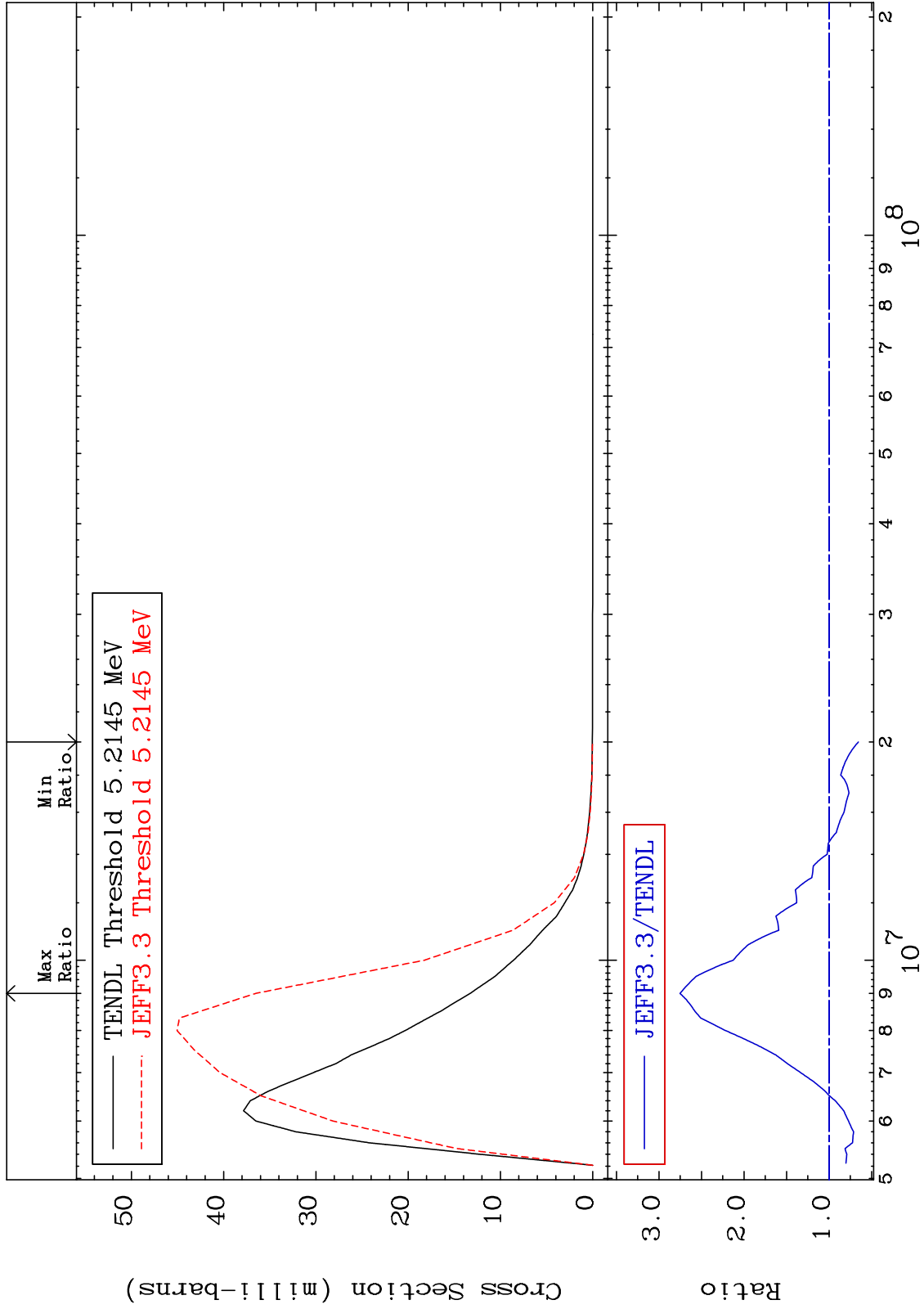
12-Mg-25

12-Mg-25

MAT 1228

MT= 67 (n,n') Level
Cross Section

12-Mg-25
-34.50 To 175.2 %



23

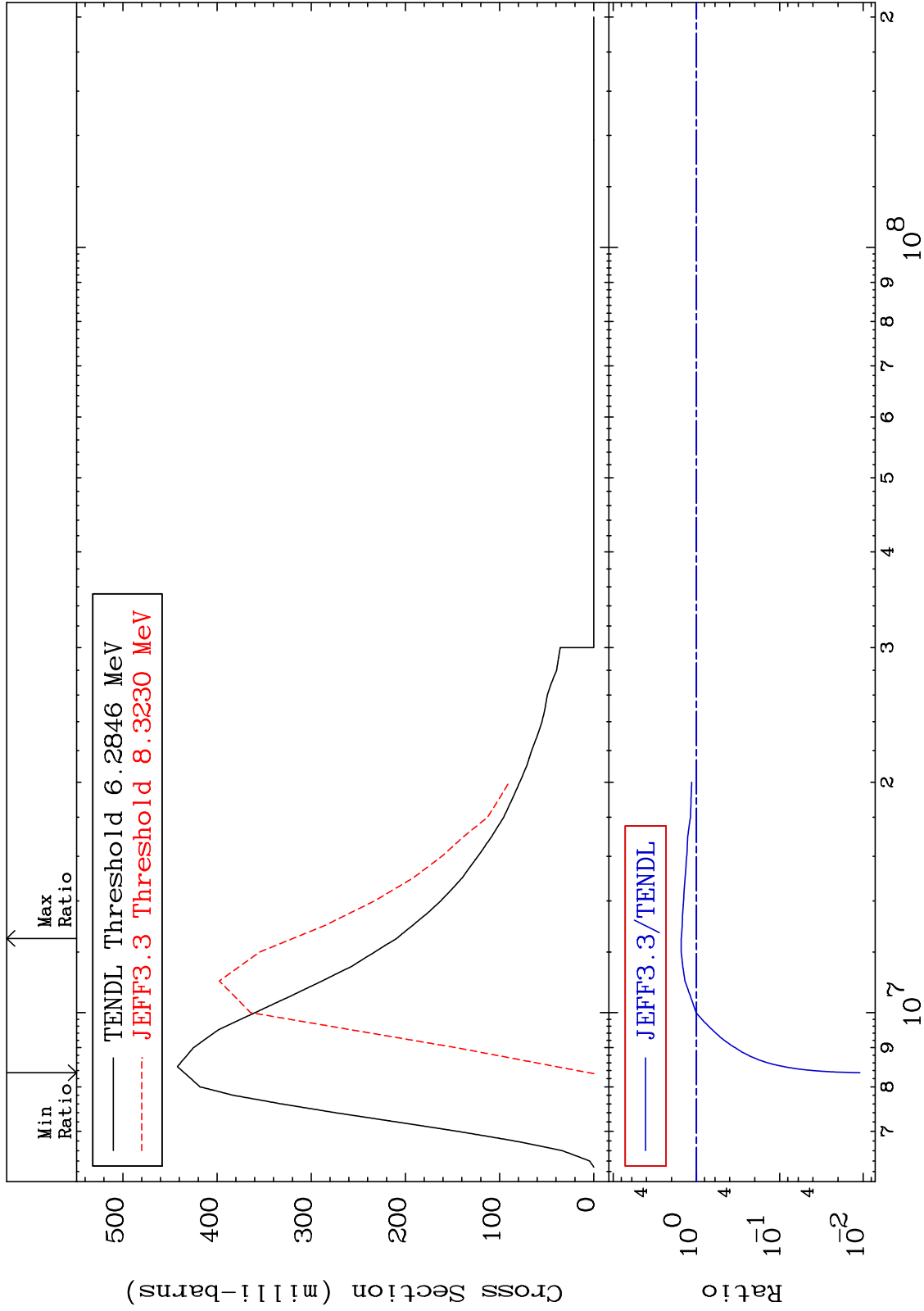
Incident Energy (eV)

12-Mg-25

MAT 1228

(n, n') Continuum
Cross Section

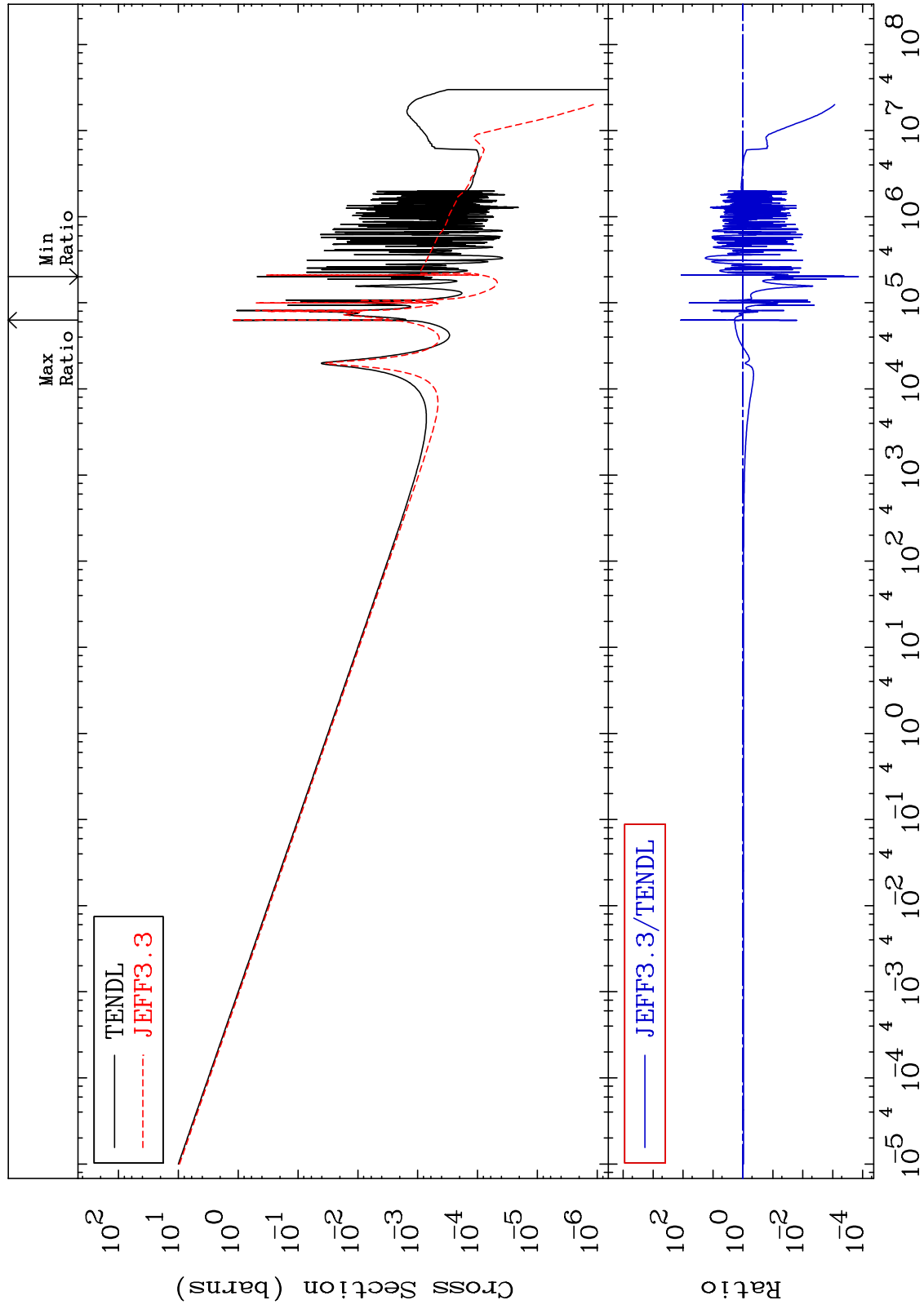
12-Mg-25
-98.91 To 52.58 %



MAT 1228

(n, γ)
Cross Section

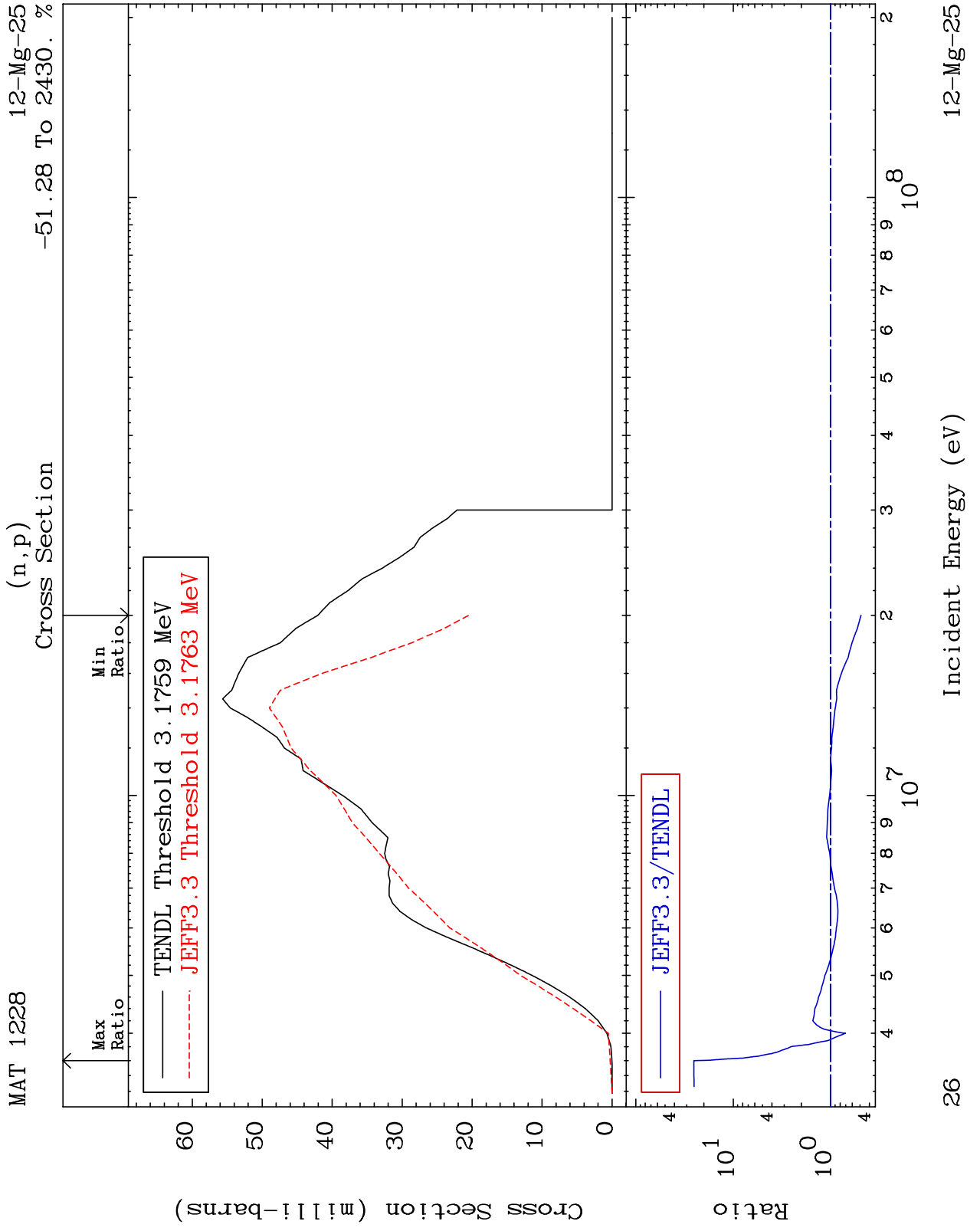
12-Mg-25
-99.99 To 9999. %



25

Incident Energy (eV)

12-Mg-25



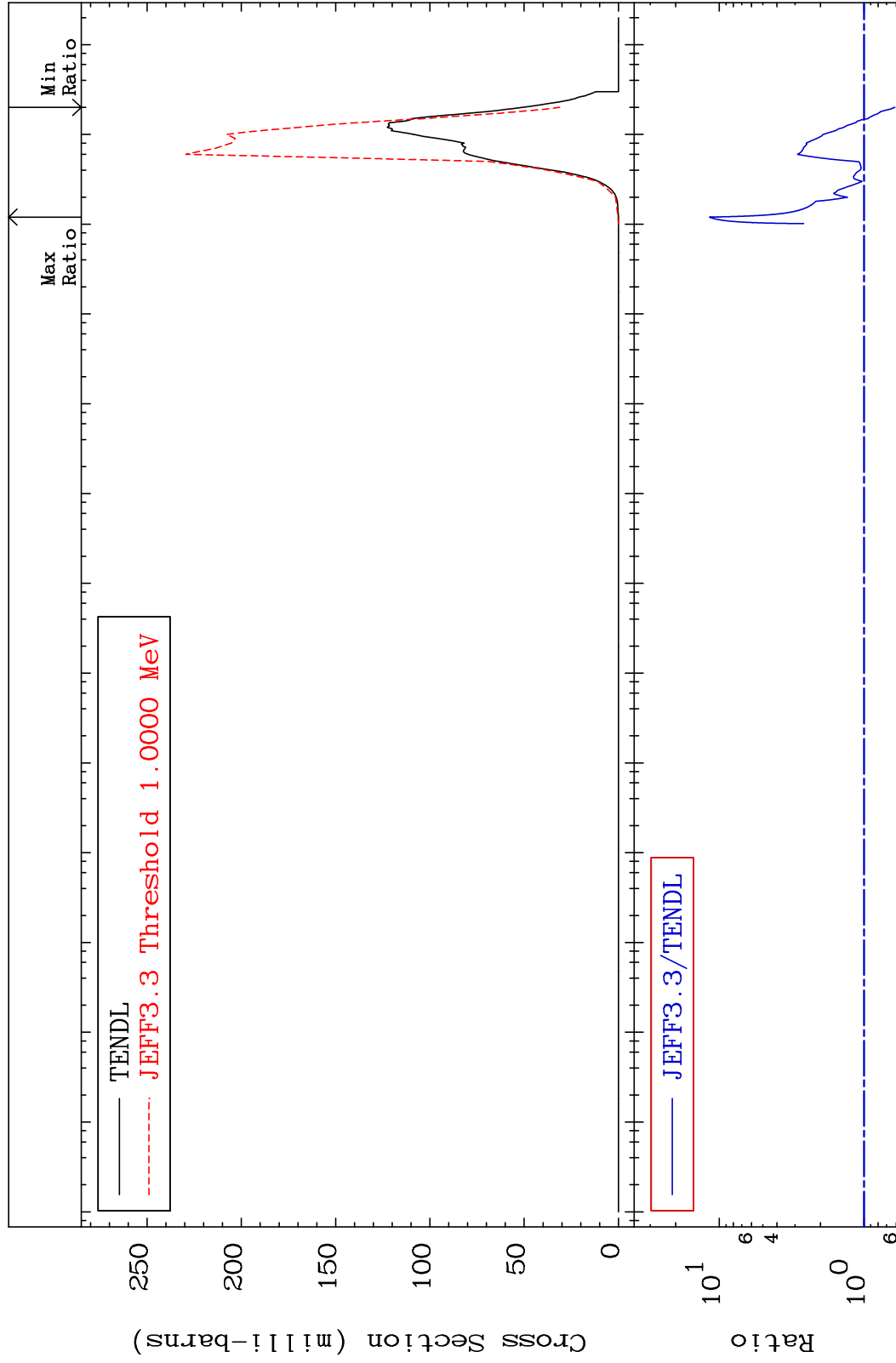
MAT 1228

(n, α)

¹²Mg-25

Cross Section

-38.83 To 1073. %



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

Ratio

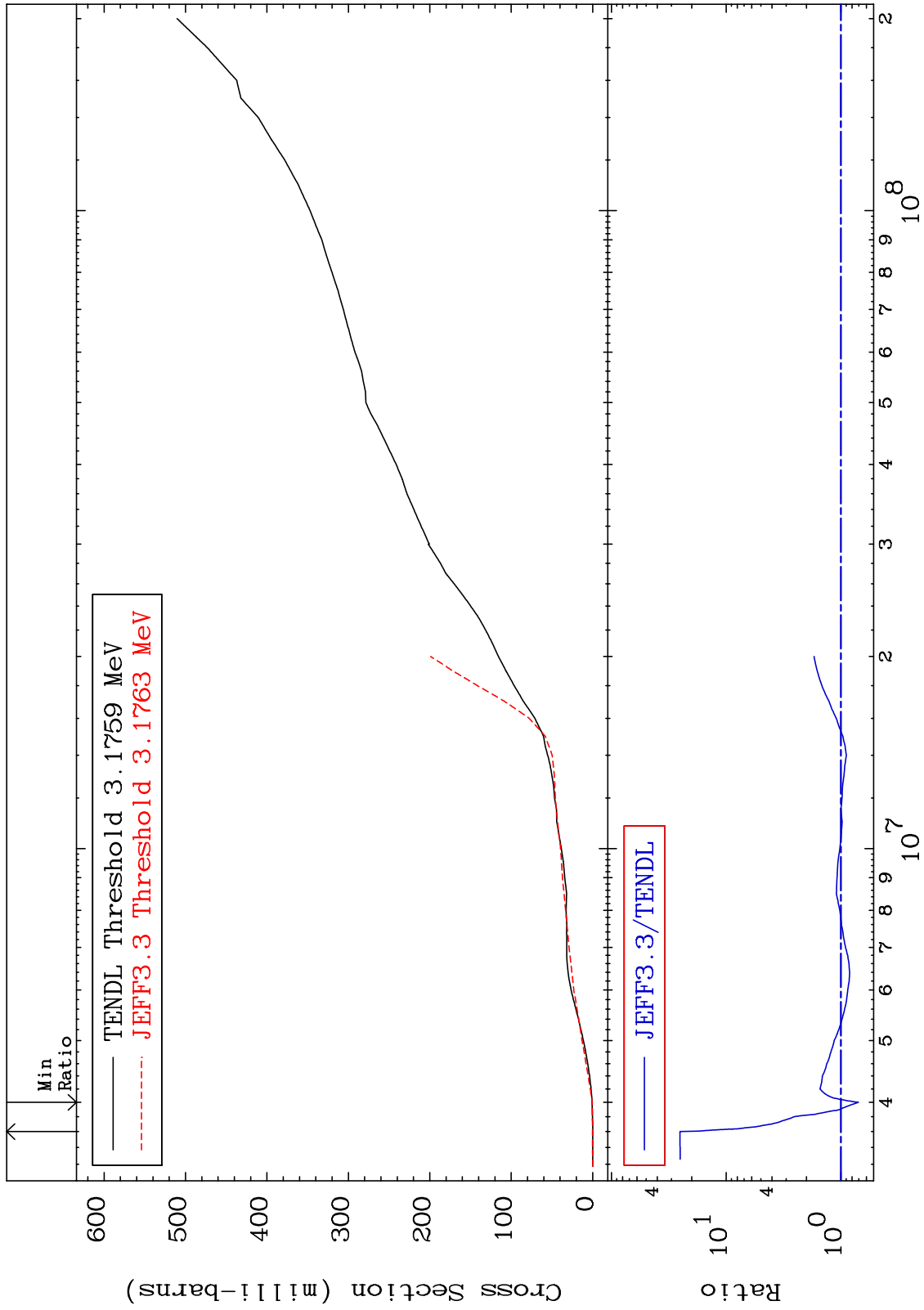
Incident Energy (eV)

¹²Mg-25

MAT 1228

Hydrogen Production
Cross Section

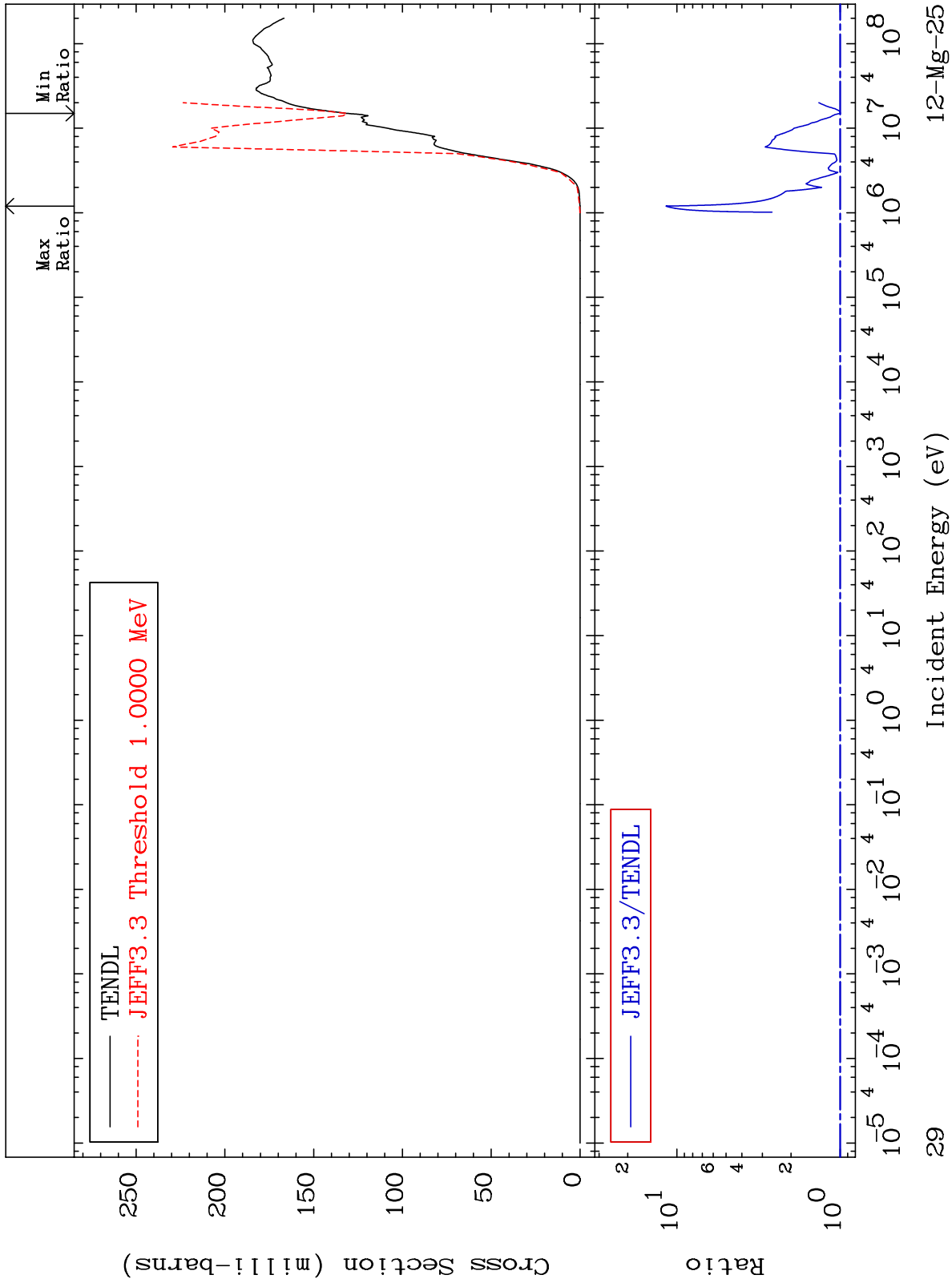
12-Mg-25
-29.48 To 2430. %



MAT 1228

He-4 Production
Cross Section

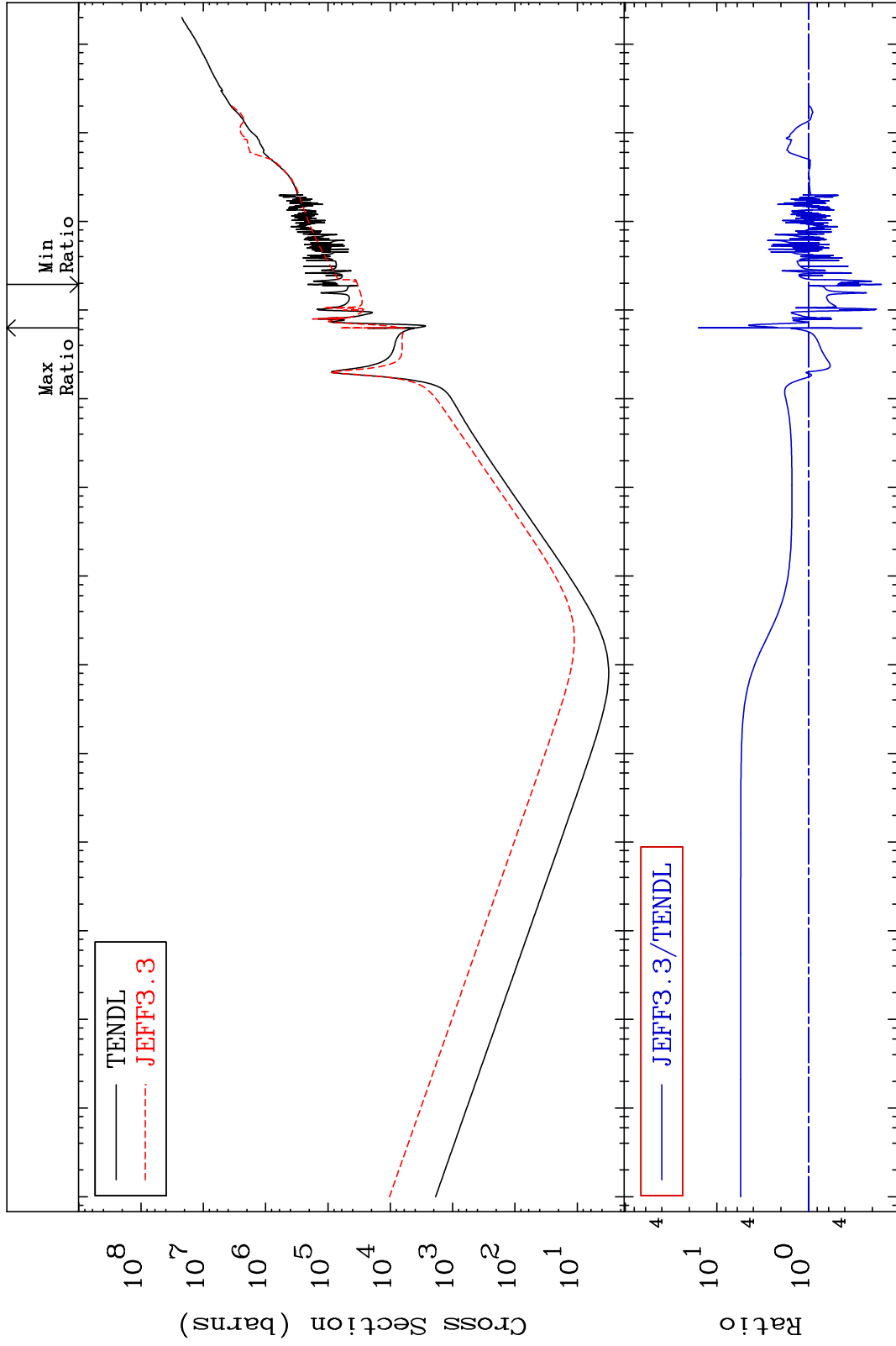
12-Mg-25
-0.288 To 1073. %



MAT 1228

Kerma total (eV-barns)
Cross Section

12-Mg-25
-84.10 To 1493. %



30

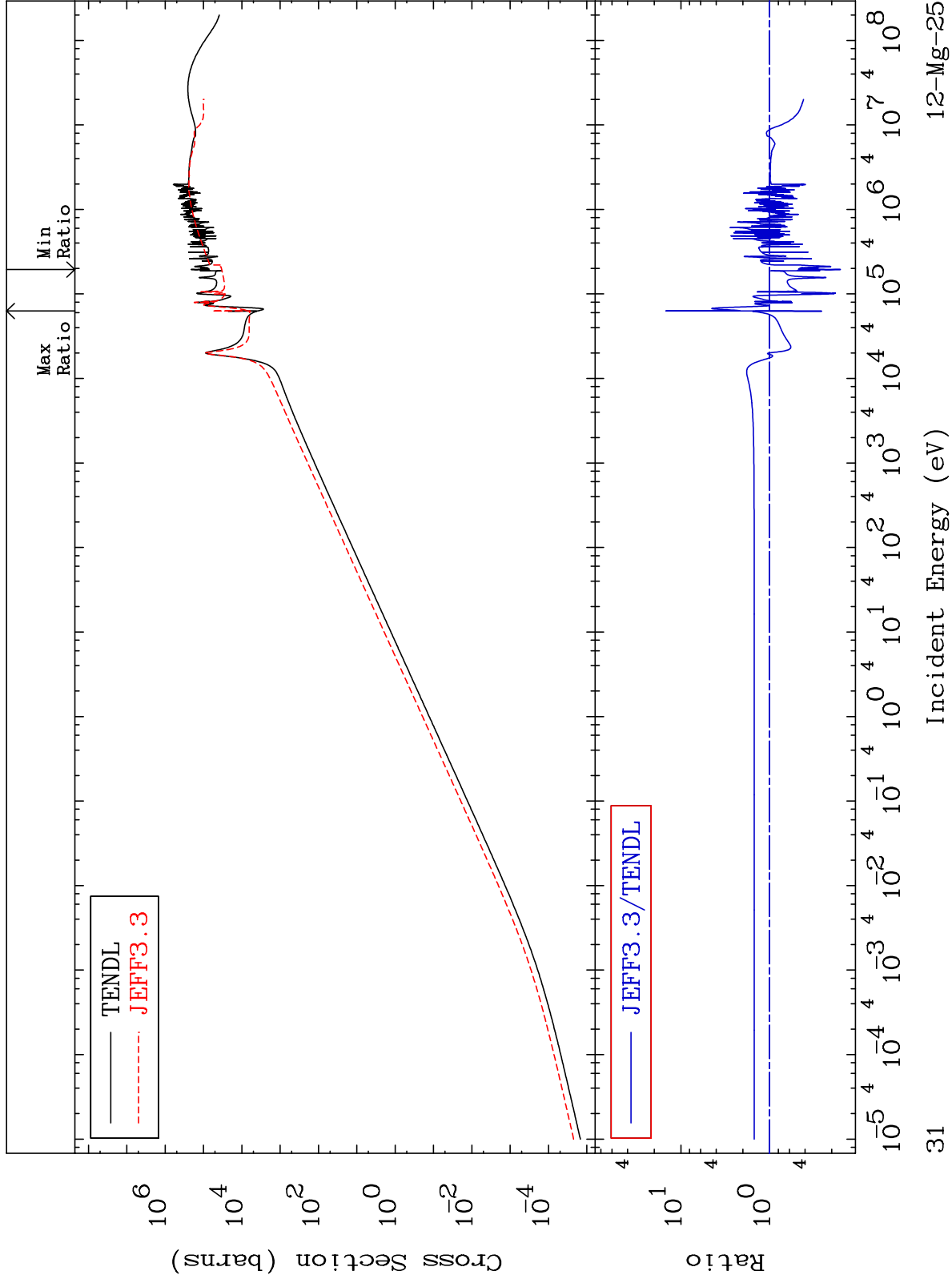
Incident Energy (eV)

12-Mg-25

MAT 1228

Kerma elastic
Cross Section

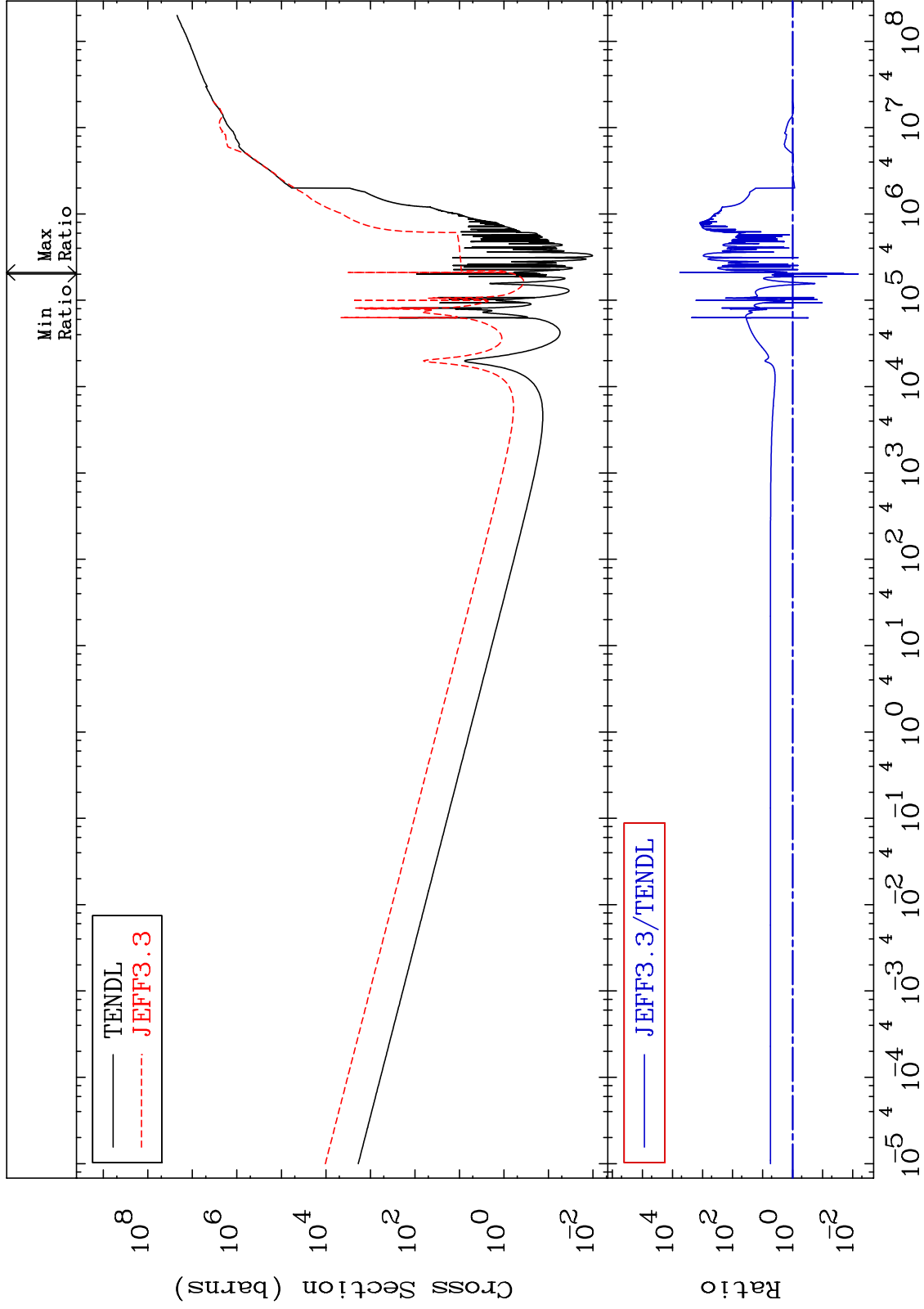
12-Mg-25
-84.10 To 1379. %



MAT 1228

Kerma non-elastic (all but mt2)
Cross Section

12-Mg-25
-99.35 To 9999. %



32

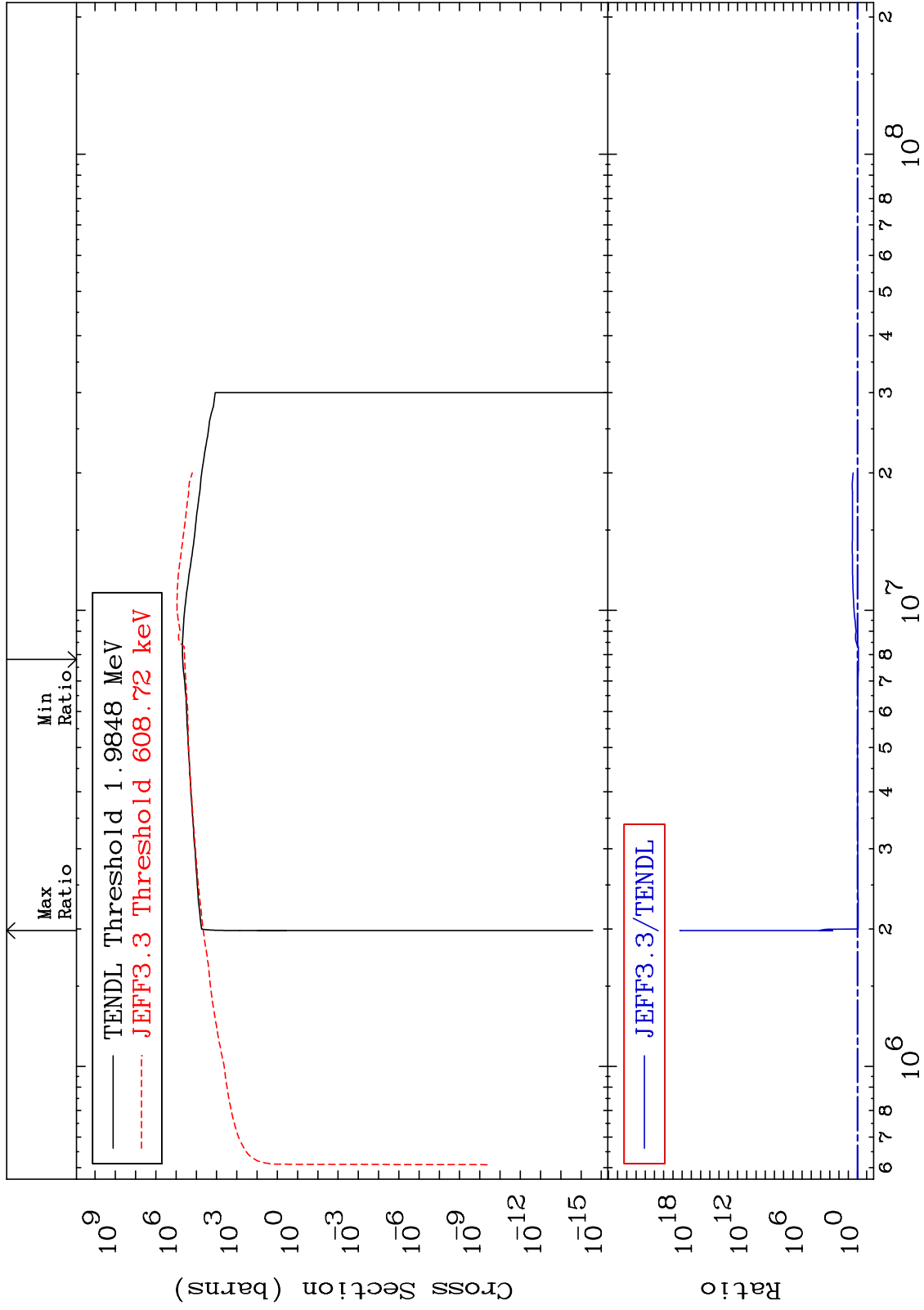
Incident Energy (eV)

12-Mg-25

MAT 1228

Kerma inelastic (mt51-91)
Cross Section

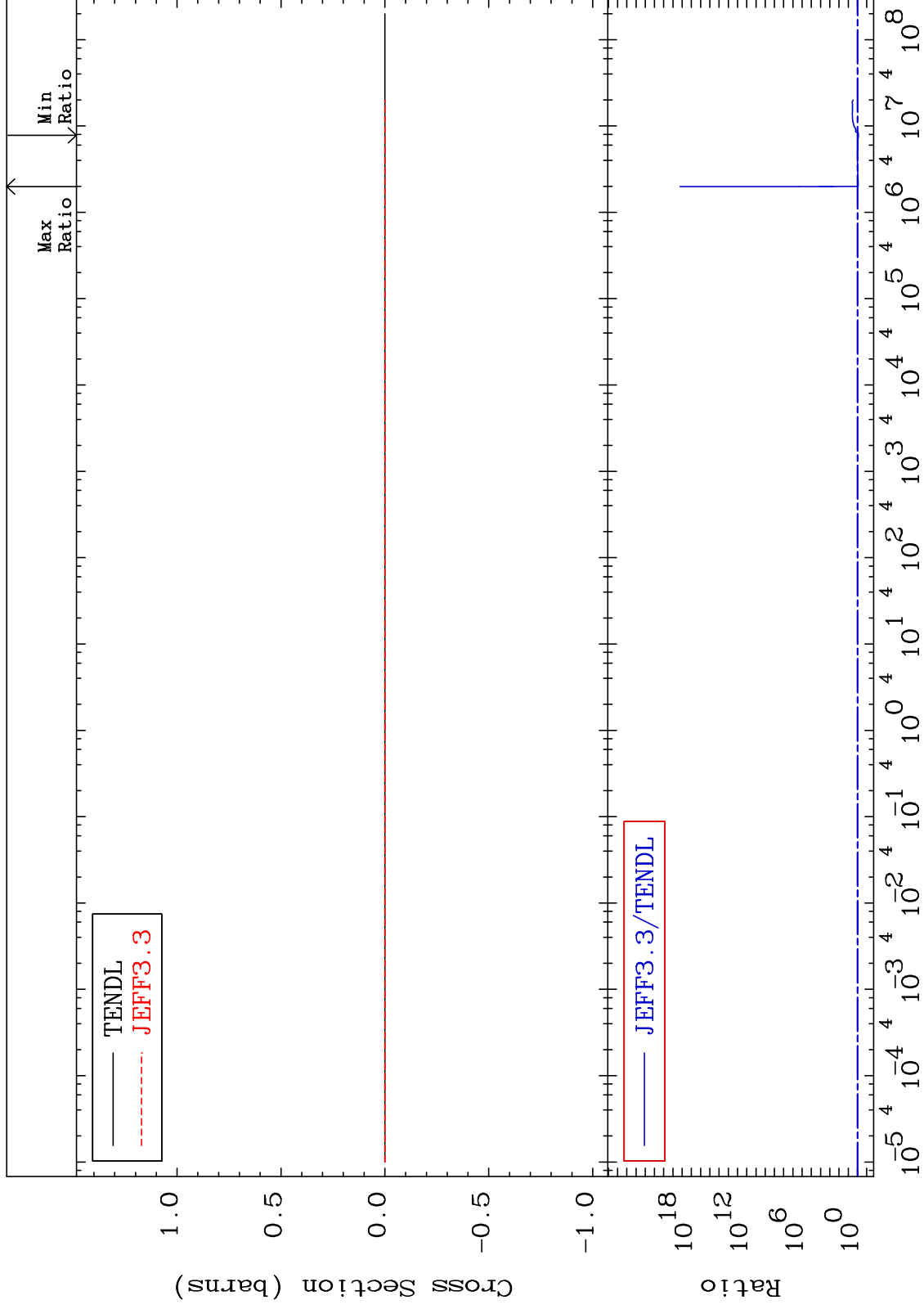
12-Mg-25
-21.12 To 9999. %



MAT 1228

Kerma fission (mt18 or mt19-20-21-38)
Cross Section

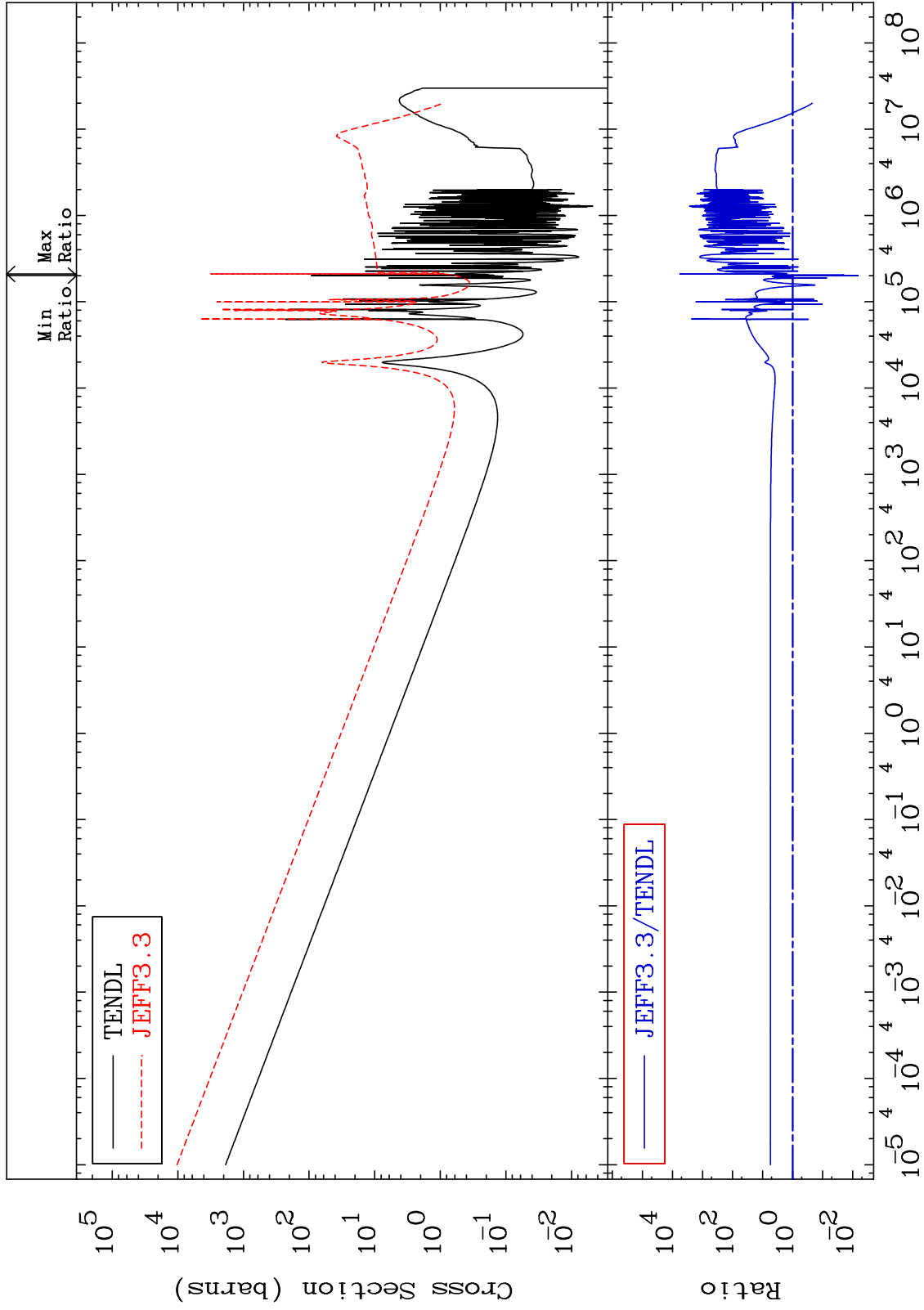
12-Mg-25
-21.12 To 9999. %



MAT 1228

Kerma capture (mt102)
Cross Section

12-Mg-25
-99.35 To 9999. %



35

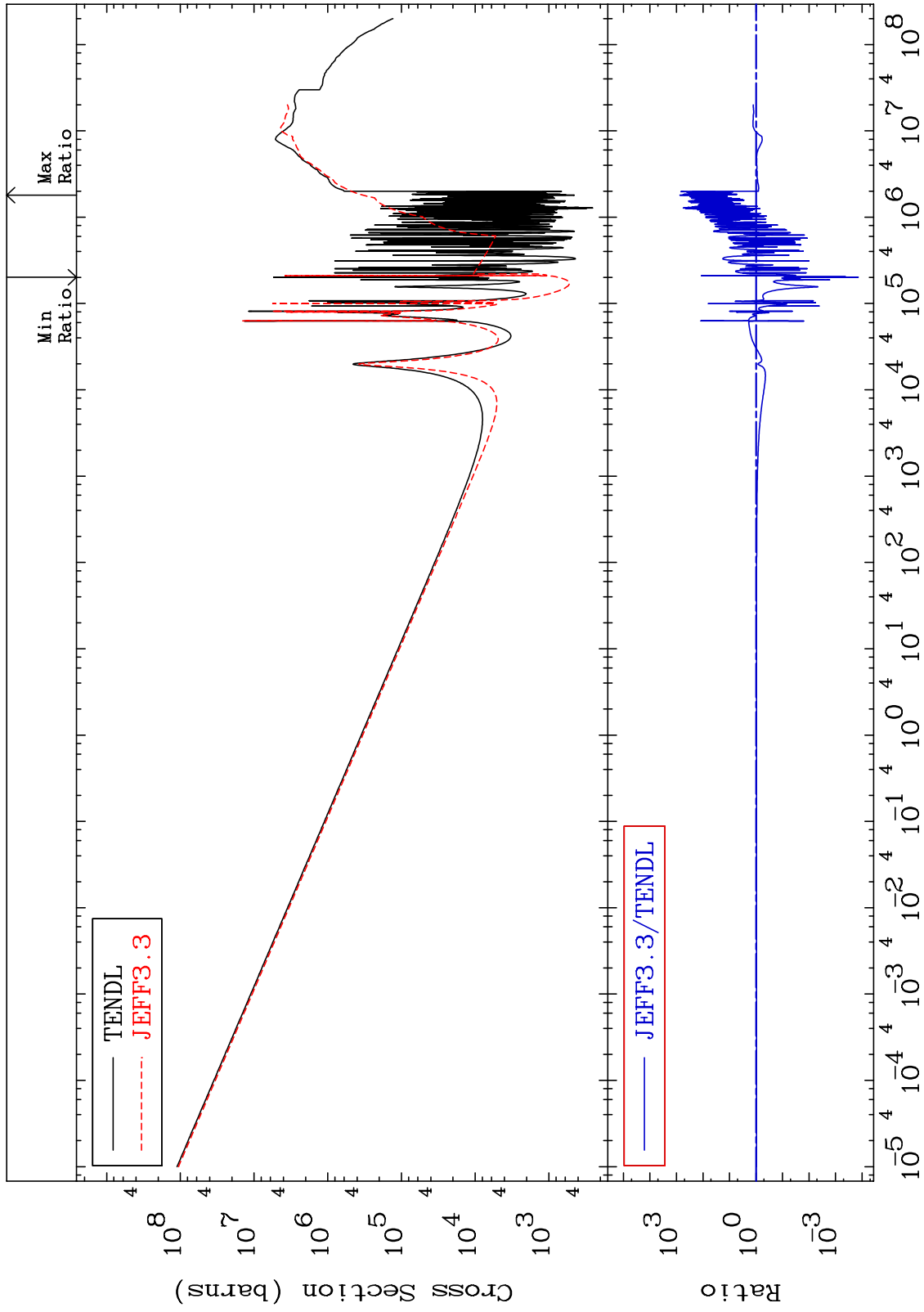
Incident Energy (eV)

12-Mg-25

MAT 1228

Total photon (eV-barns)
Cross Section

12-Mg-25
-99.99 To 9999. %



36

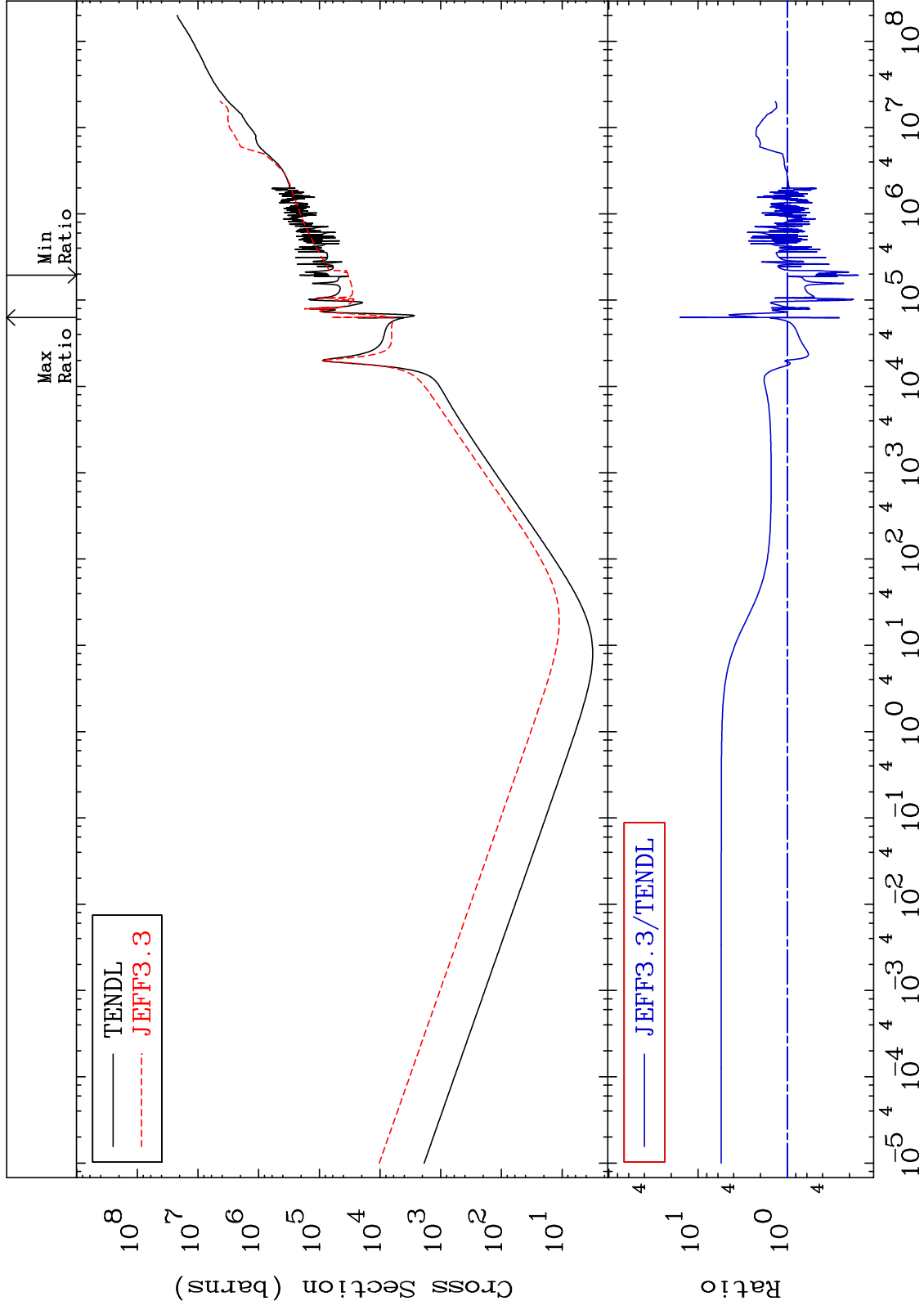
Incident Energy (eV)

12-Mg-25

MAT 1228

Total kinematic kerma (high limit)
Cross Section

12-Mg-25
-84.10 To 1493. %



37

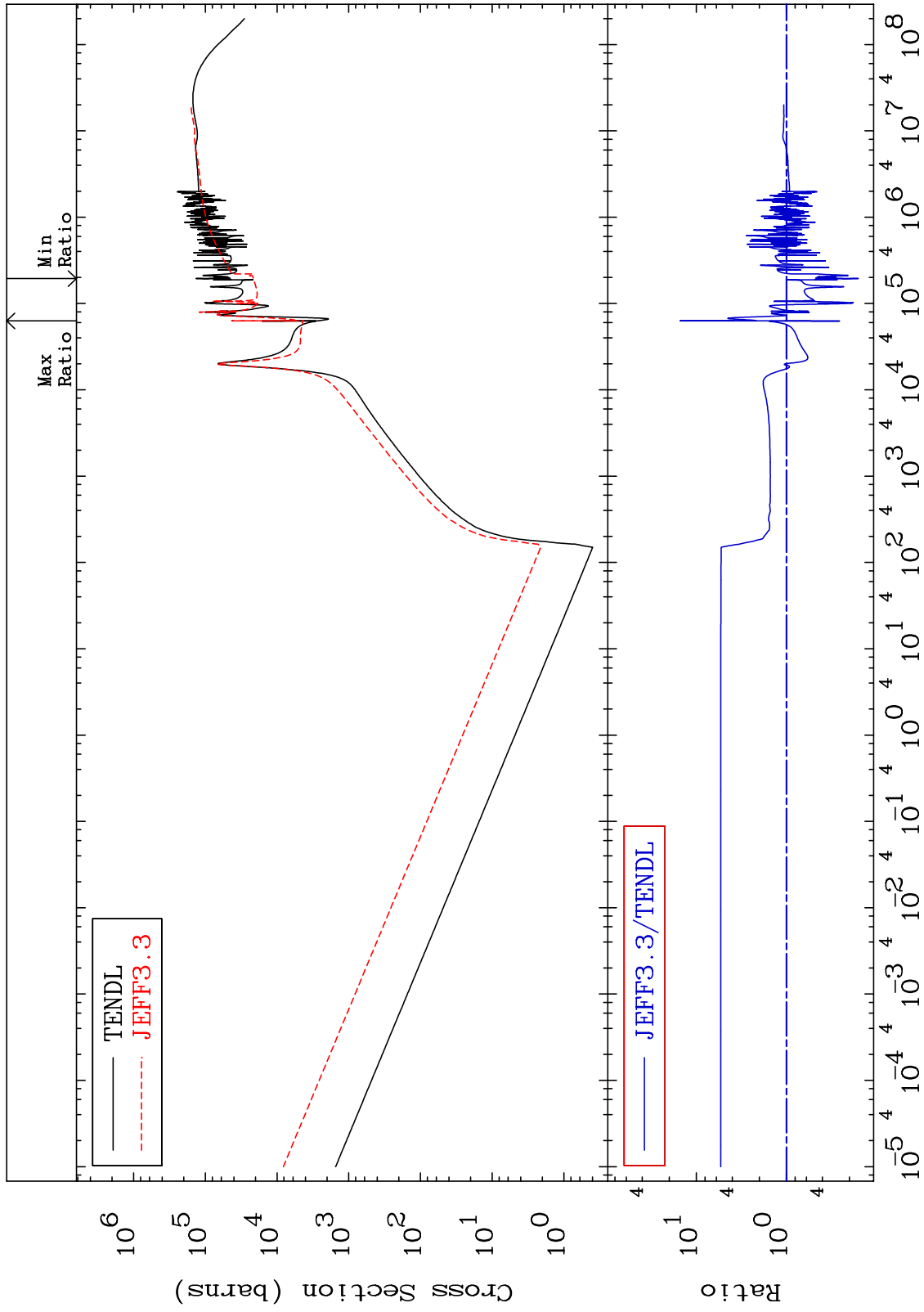
Incident Energy (eV)

12-Mg-25

MAT 1228

Dpa total (eV-barns)
Cross Section

12-Mg-25
-84.09 To 1419. %



38

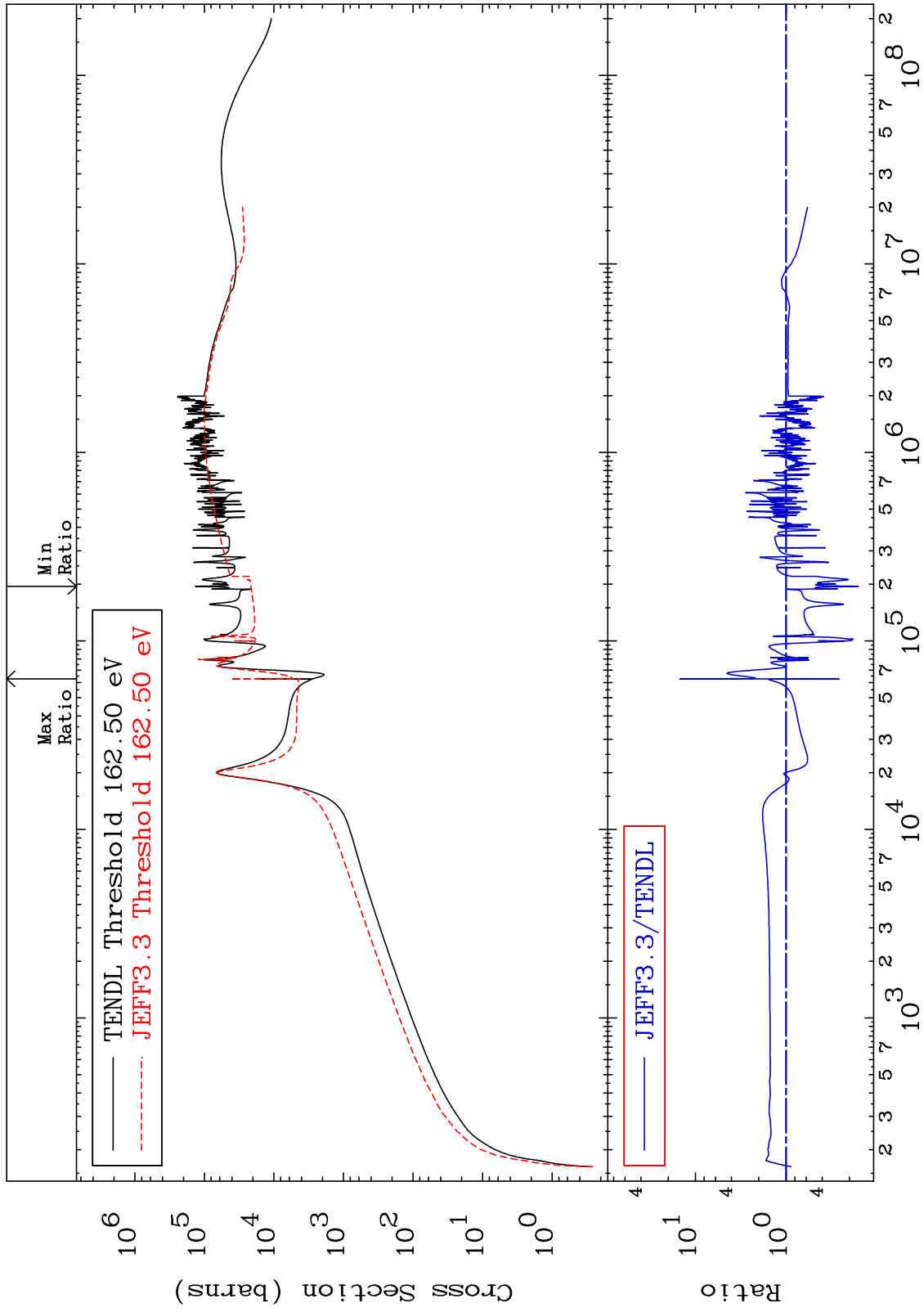
Incident Energy (eV)

12-Mg-25

MAT 1228

Dpa elastic (mt2)
Cross Section

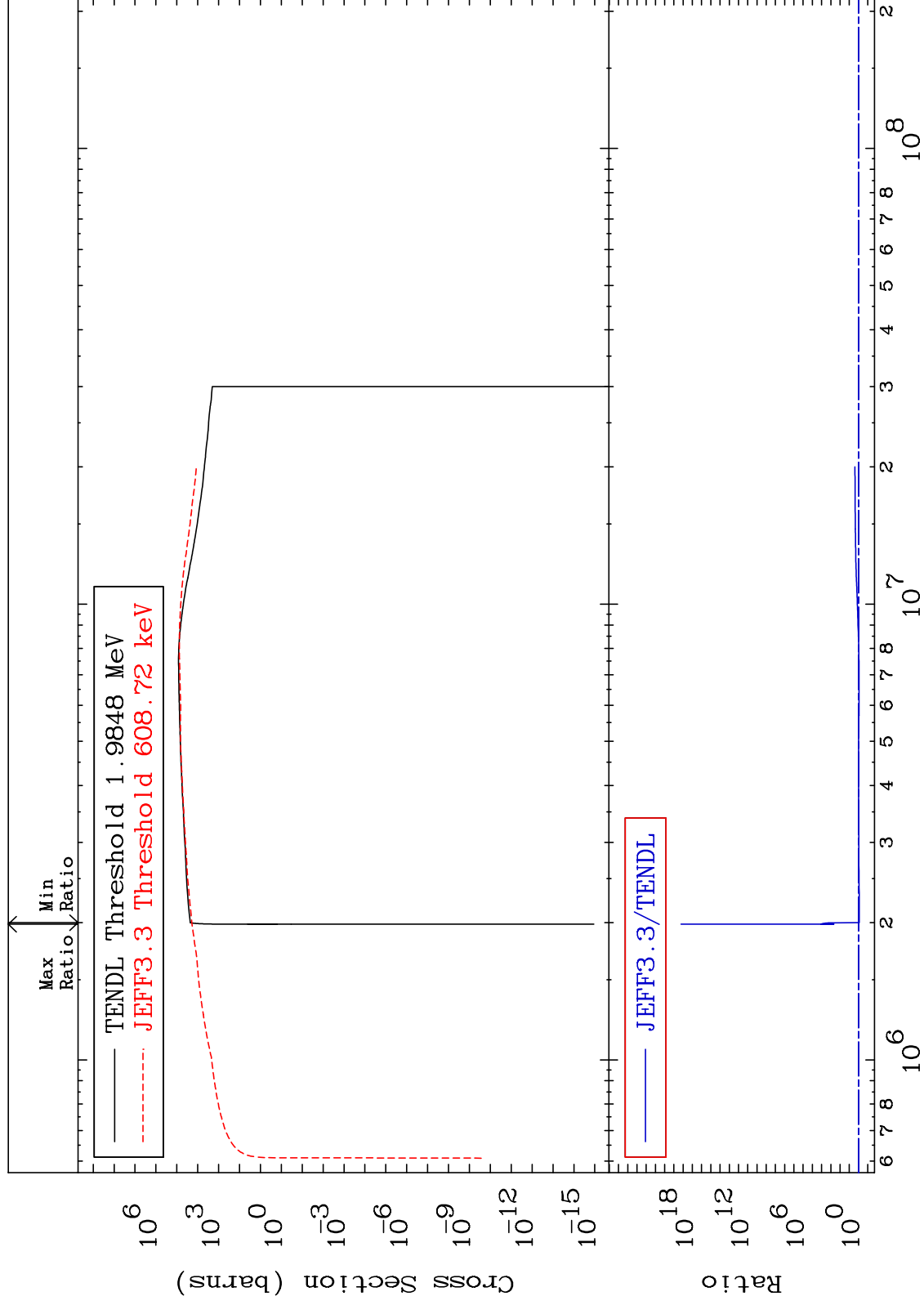
12-Mg-25
-84.09 To 1379. %



MAT 1228

Dpa inelastic (mt51-91)
Cross Section

12-Mg-25
-17.75 To 9999. %



40

Incident Energy (eV)

12-Mg-25

MAT 1228

Dpa disappearance (mt102 -120)
Cross Section

12-Mg-25
-99.92 To 9999. %

