

Program Complot
(Version 2018-1)

by

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Press Mouse Button to Start

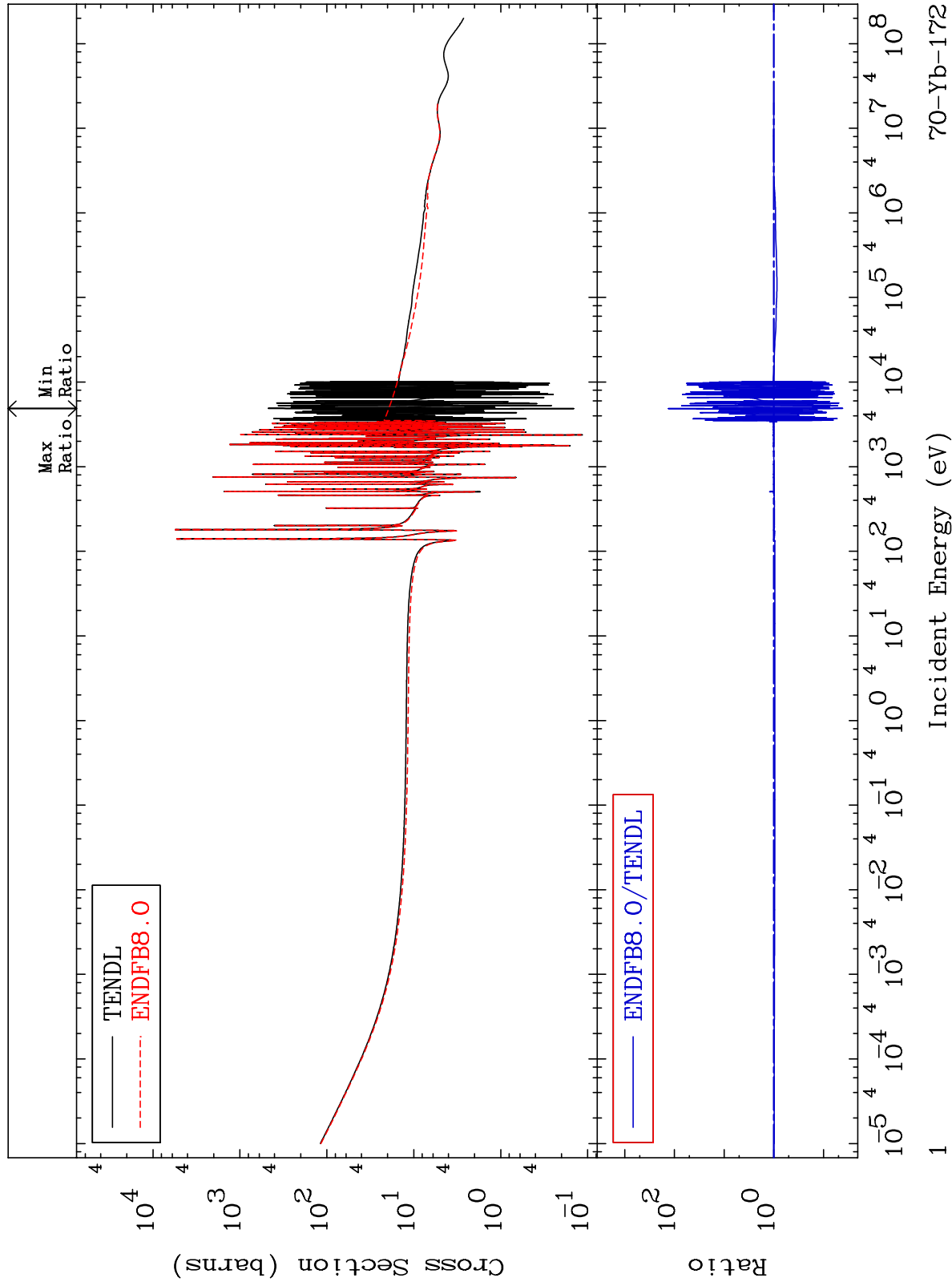
MAT 7037

Total

70-Yb-172

Cross Section

-95.92 To 9999. %



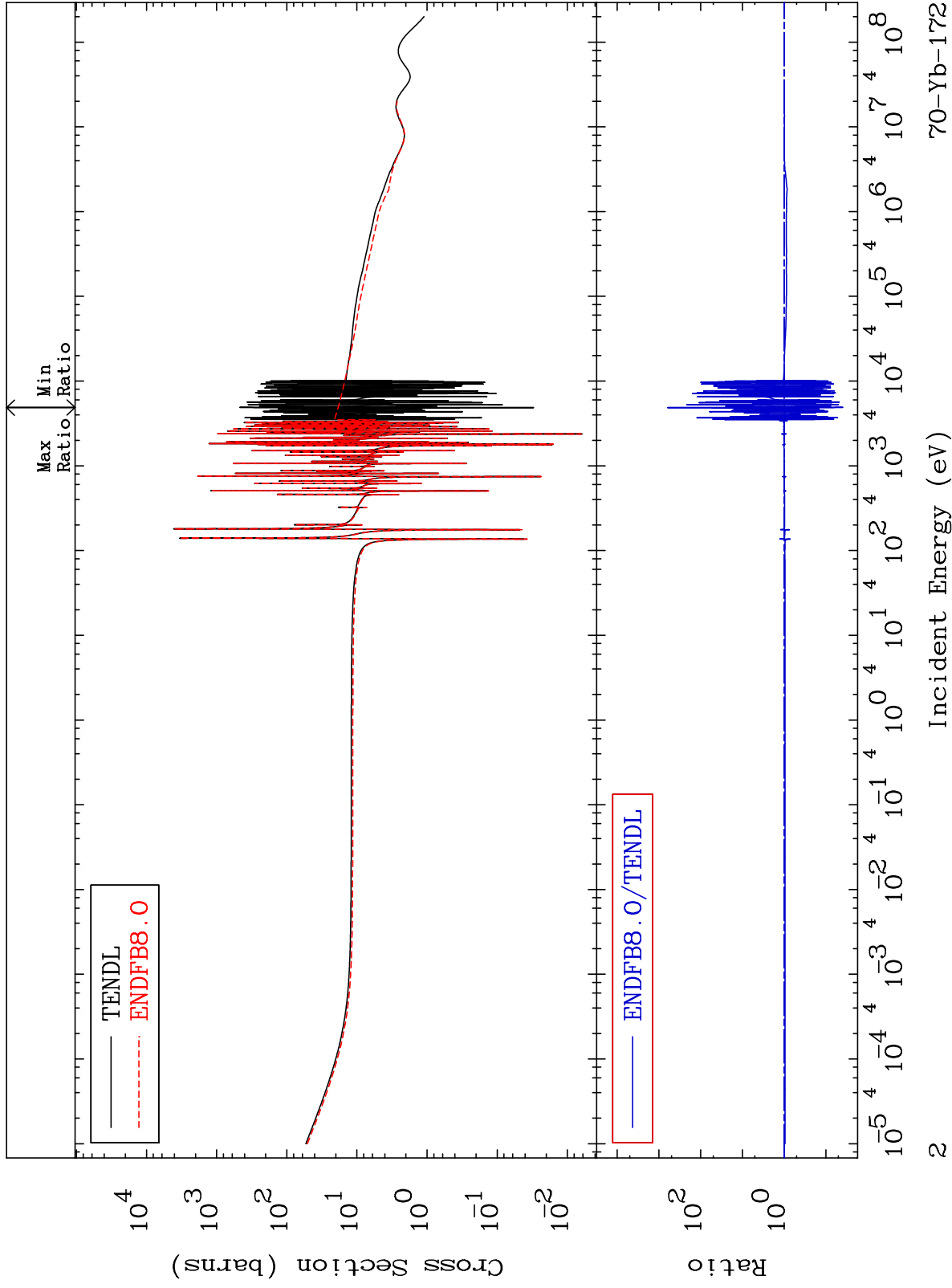
Incident Energy (eV)

70-Yb-172

MAT 7037

Elastic
Cross Section

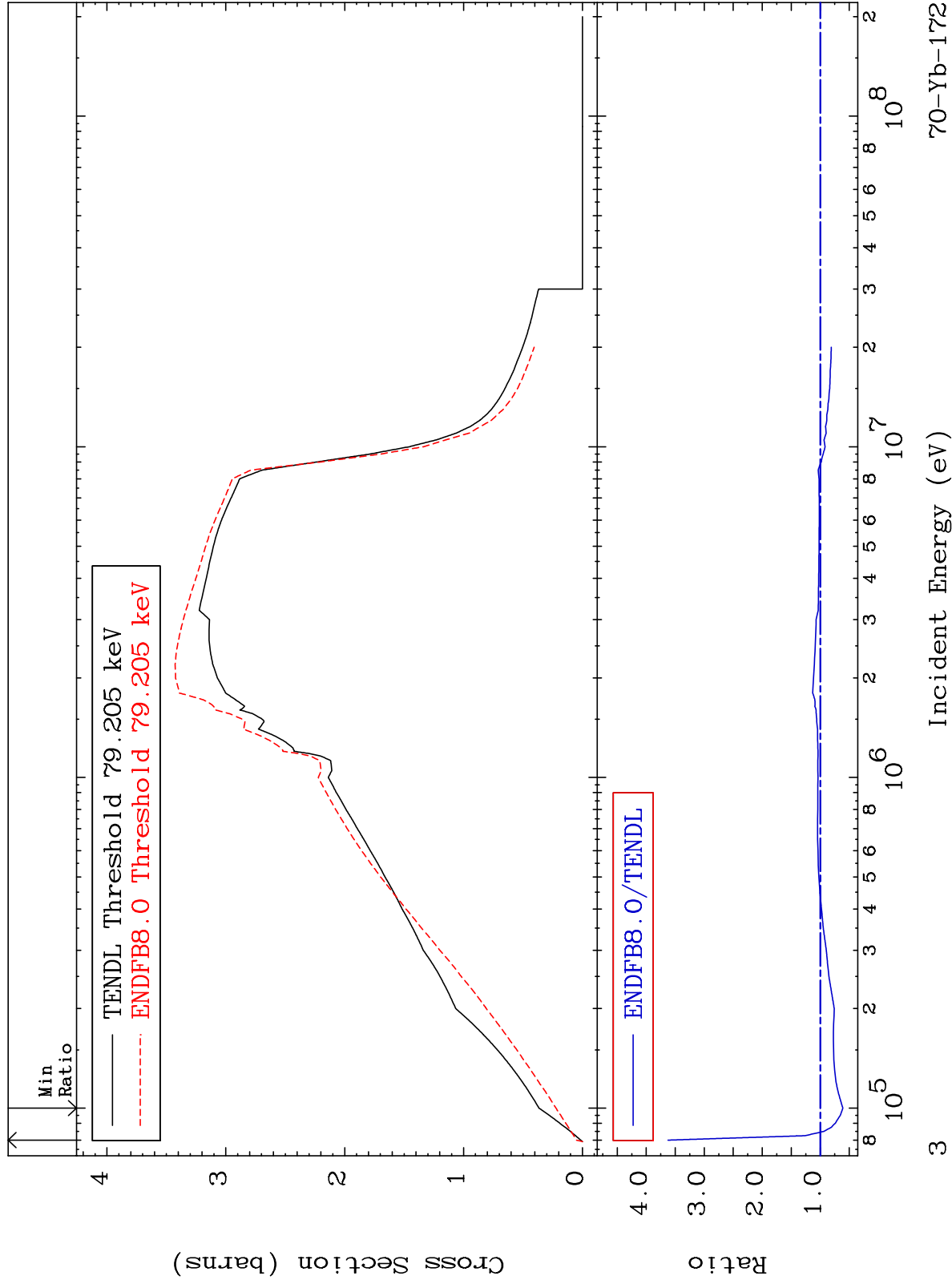
70-Yb-172
-96.04 To 9999. %



MAT 7037

Inelastic
Cross Section

70-Yb-172
-38.95 To 262.5 %



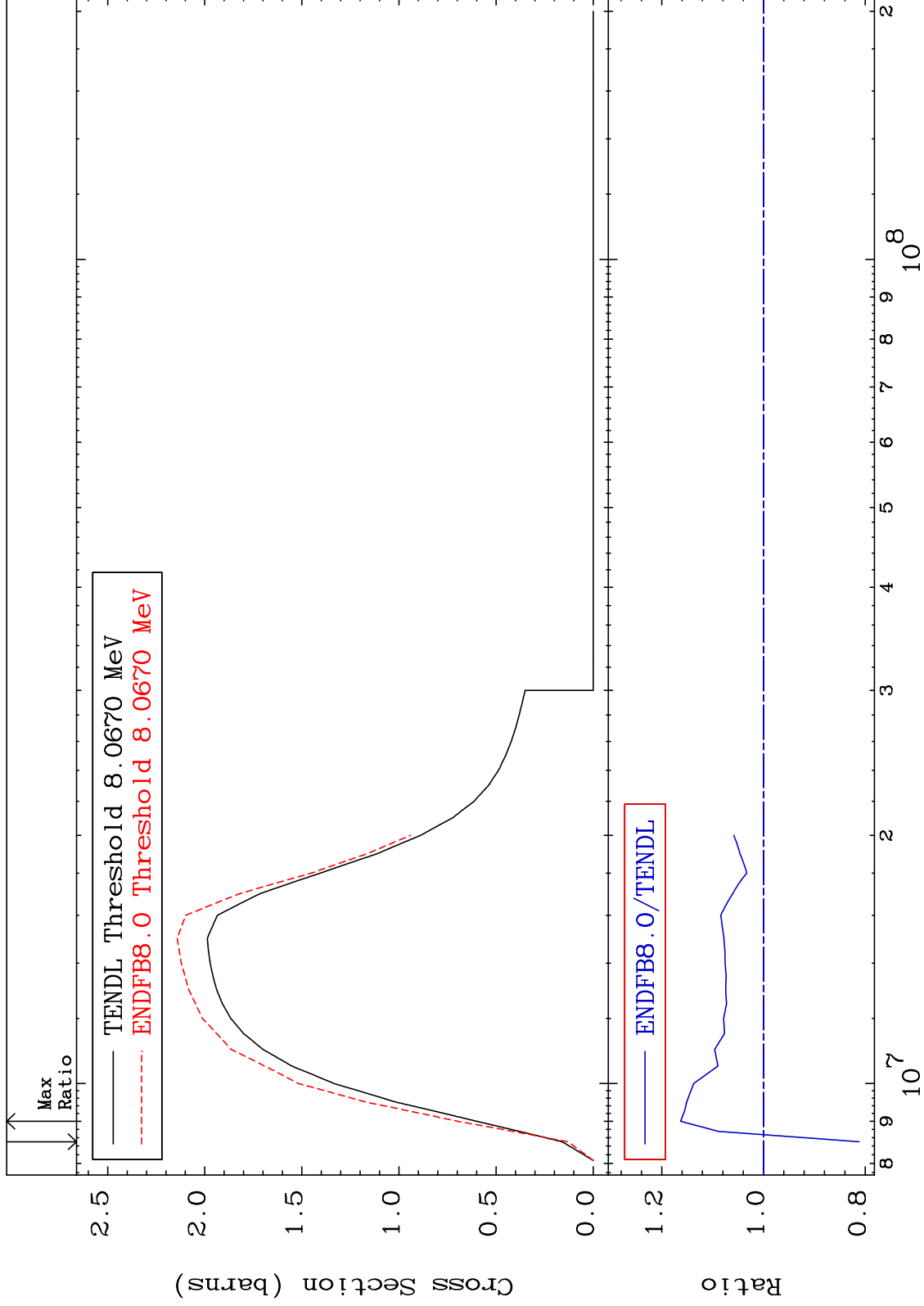
MAT 7037

(n,2n)

70-Yb-172

Cross Section

-18.82 To 16.29 %



4

Incident Energy (eV)

70-Yb-172

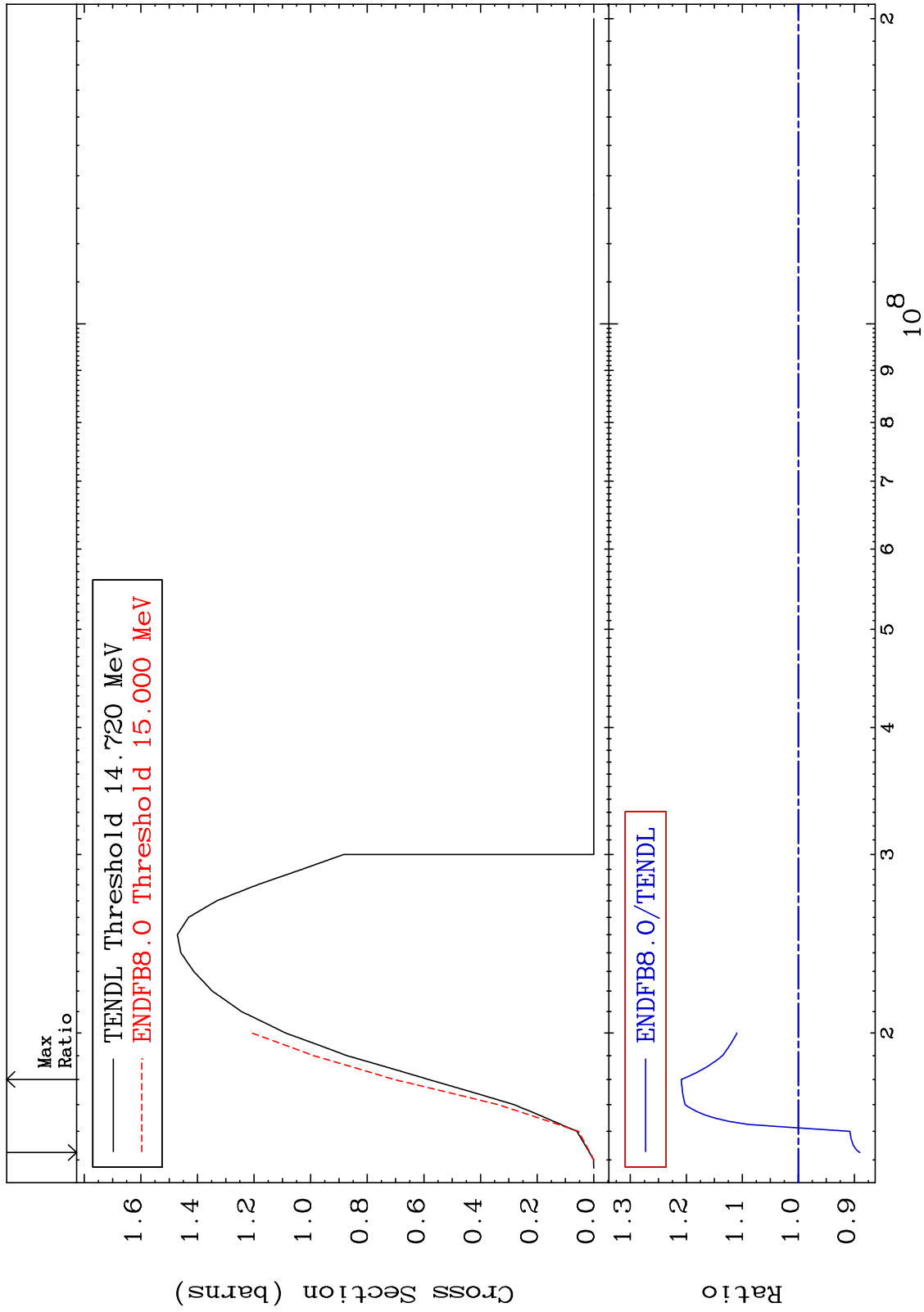
MAT 7037

(n, 3n)

70-Yb-172

Cross Section

-11.00 To 20.91 %



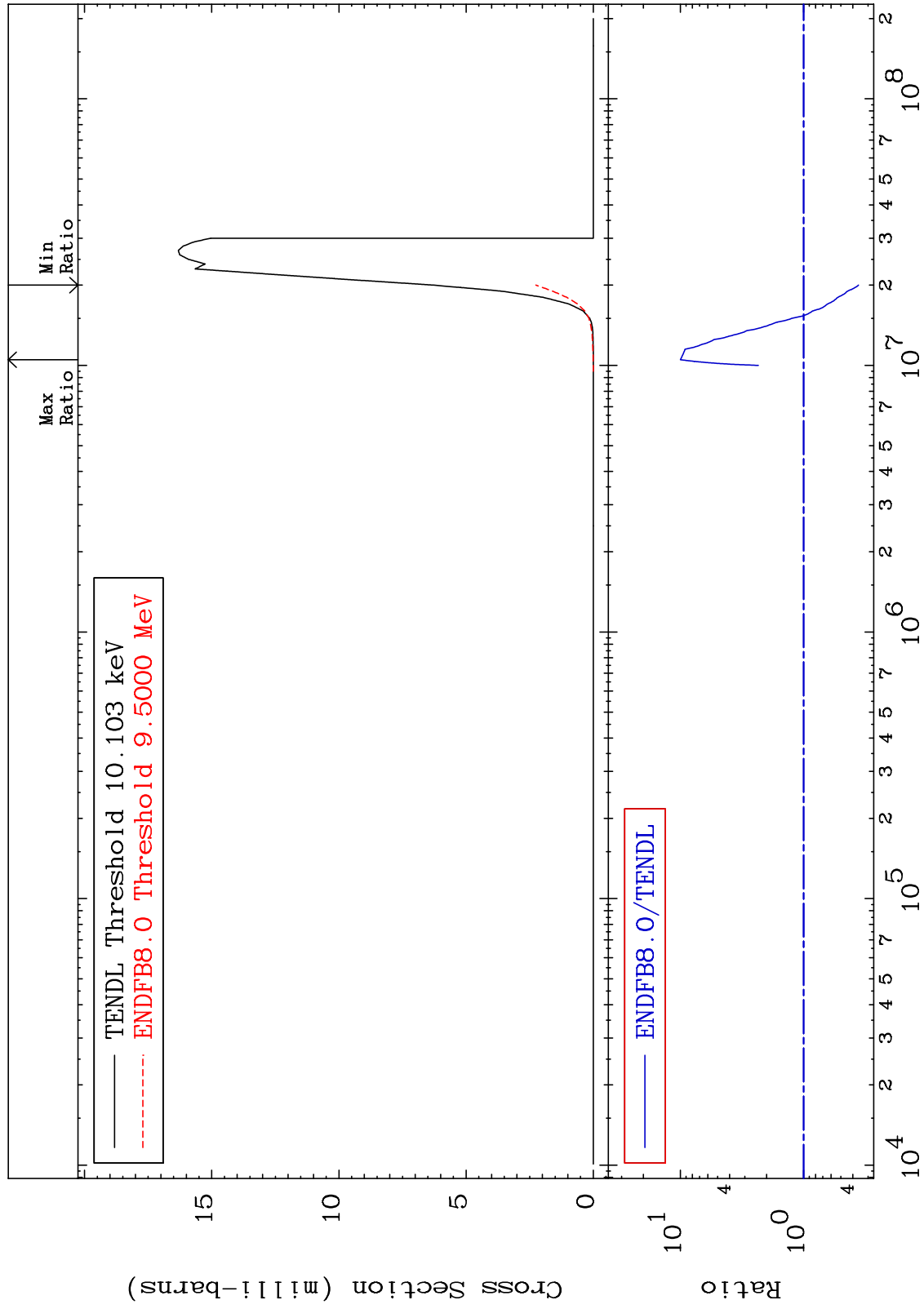
MAT 7037

(n, n') α

Cross Section

70-Yb-172

-64.10 To 900.4 %



Incident Energy (eV)

70-Yb-172

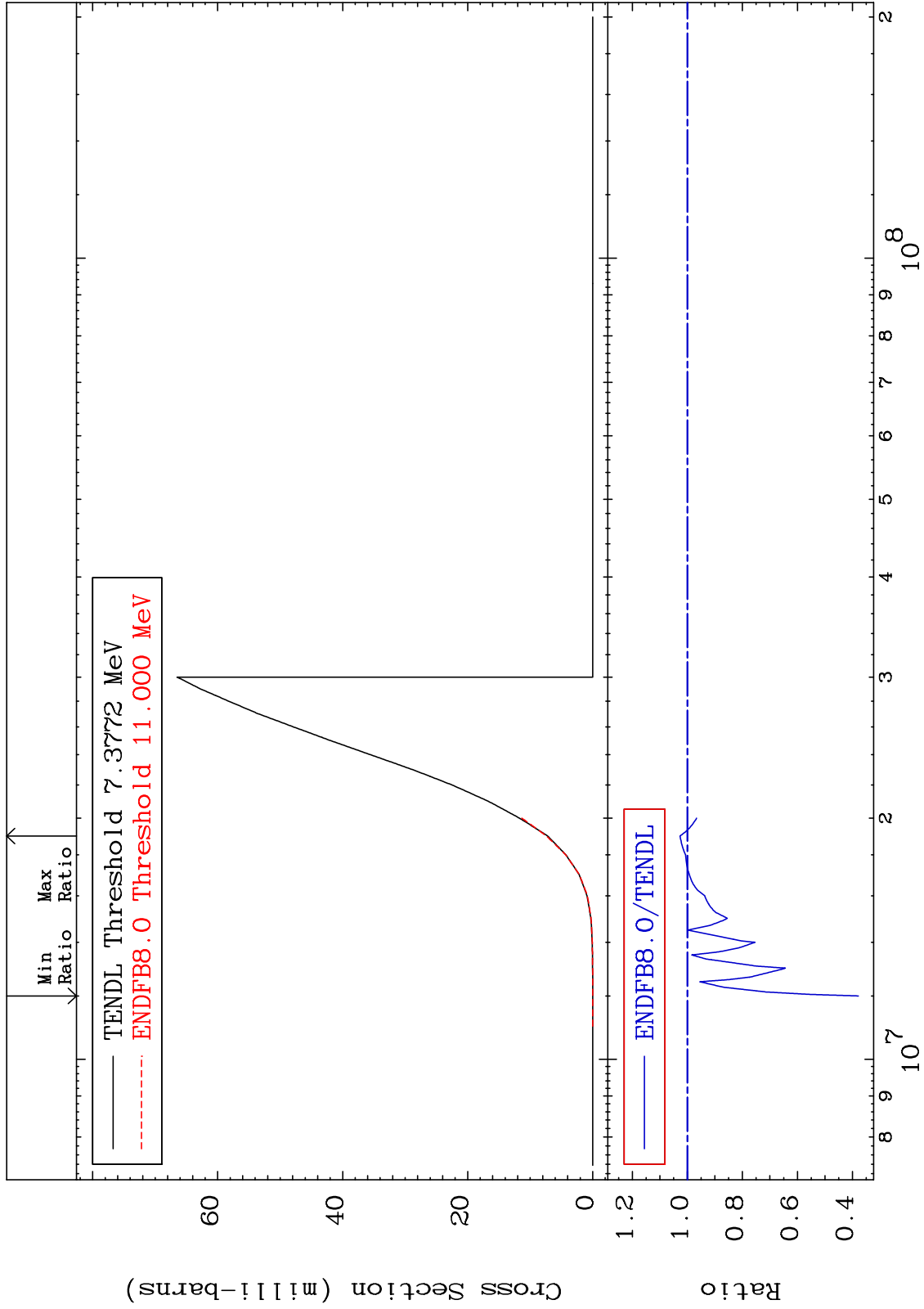
MAT 7037

(n,n') p

70-Yb-172

Cross Section

-62.19 To 2.698 %



7

Incident Energy (eV)

70-Yb-172

MAT 7037

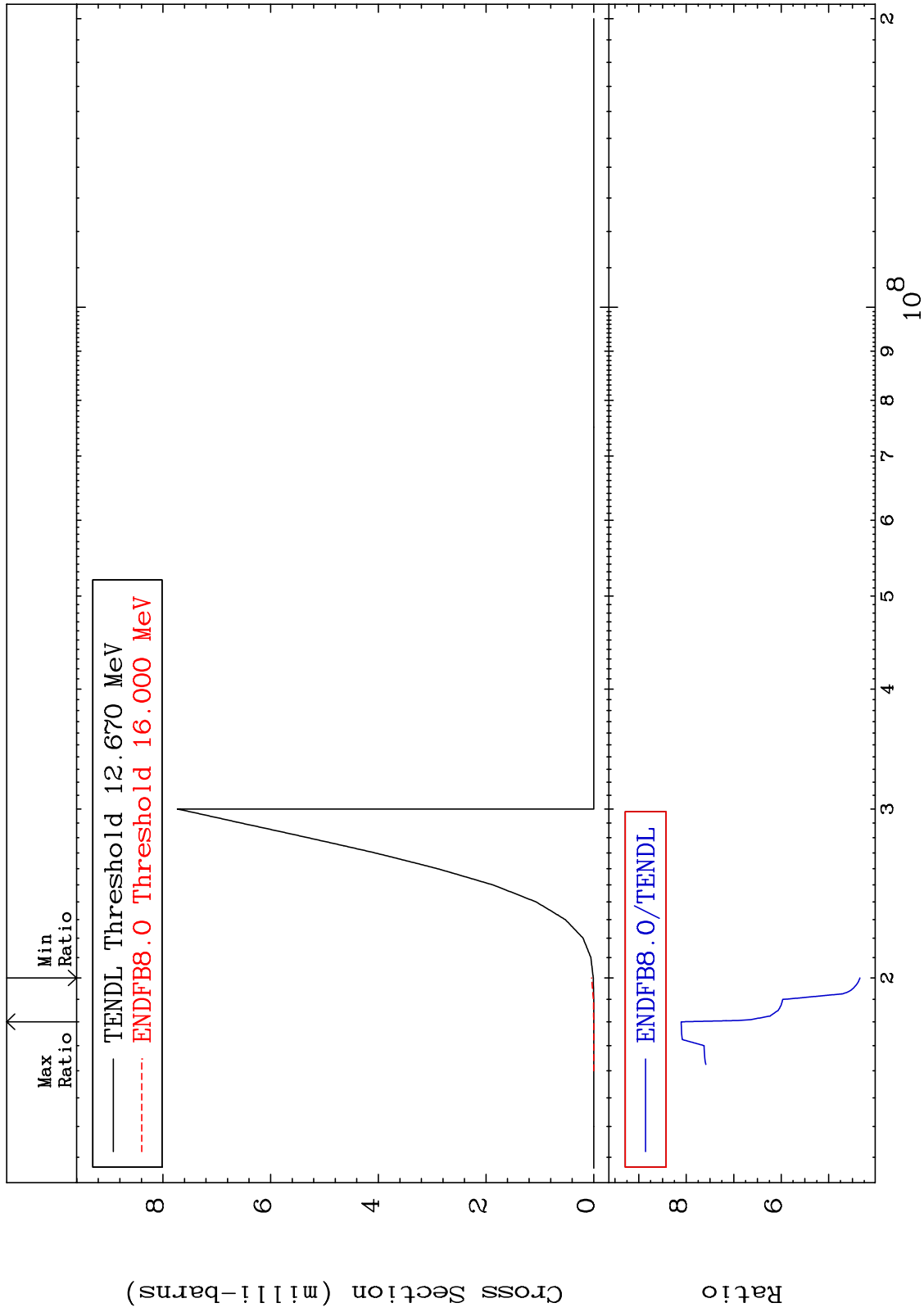
(n,n') d

70-Yb-172

Cross Section

334.1

To 710.6 %



8

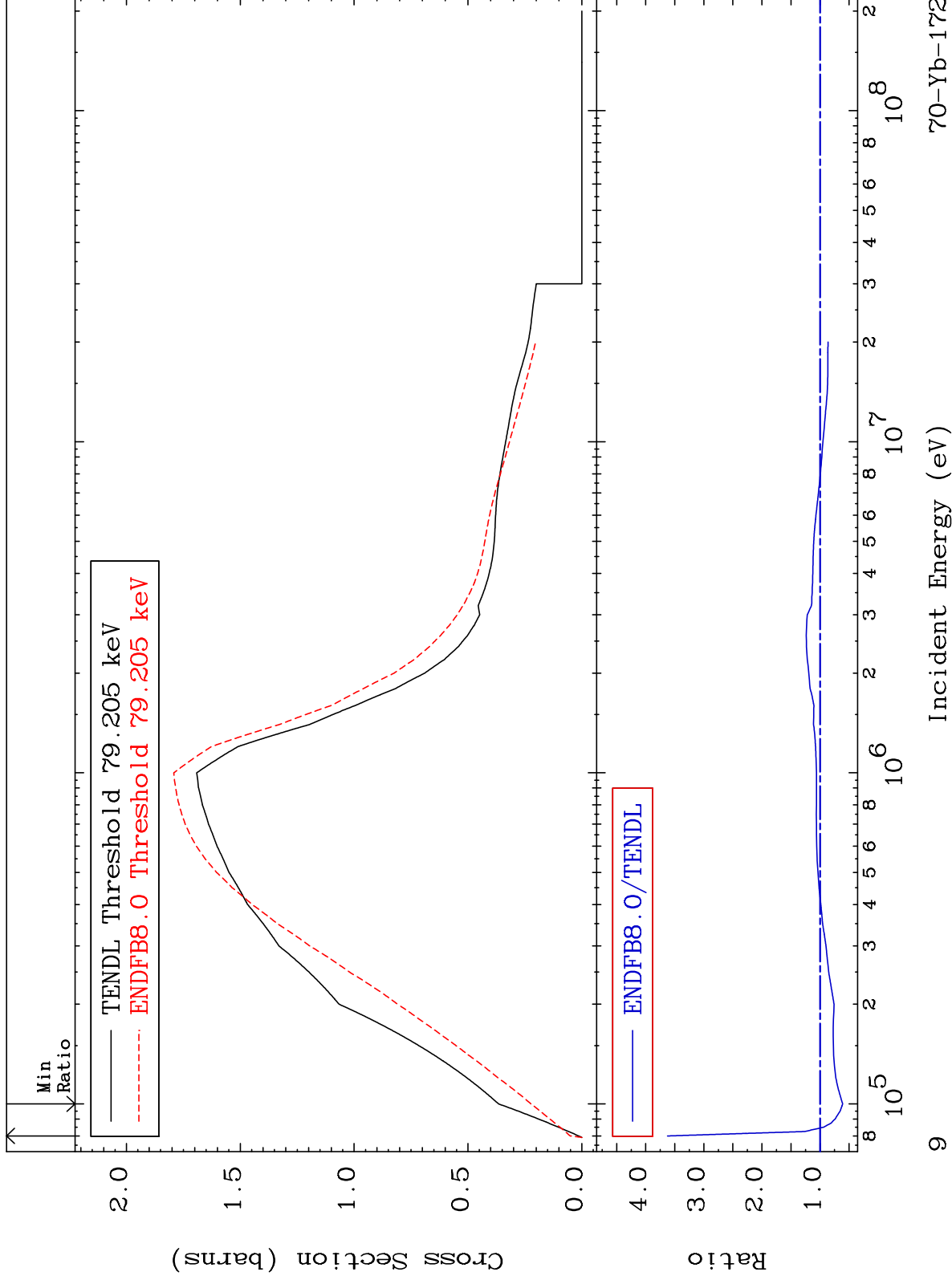
Incident Energy (eV)

70-Yb-172

MAT 7037

MT= 51 (n,n') Level
Cross Section

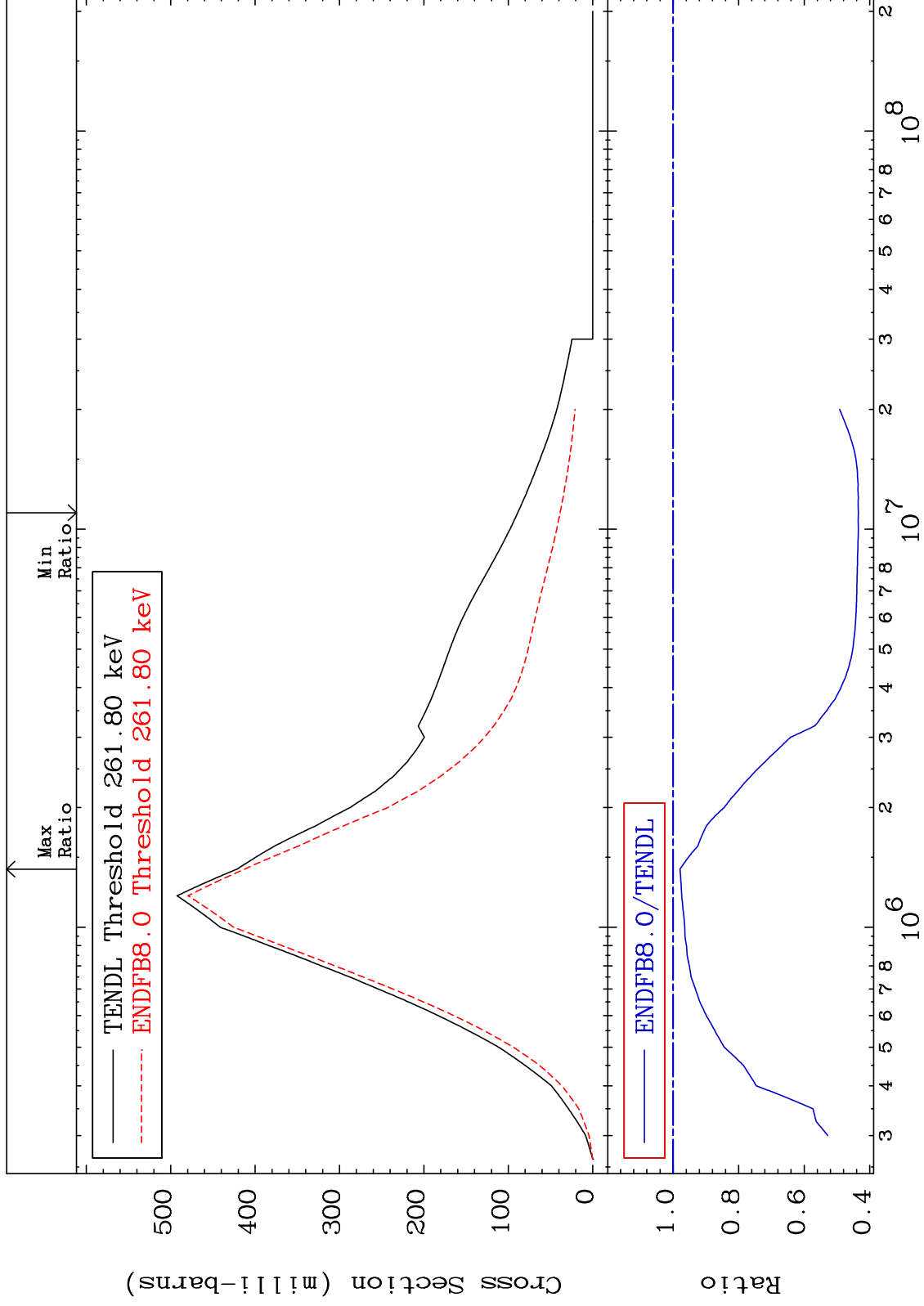
70-Yb-172
-38.95 To 262.5 %



MAT 7037

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

70-Yb-172
-56.55 To -2.110%



10

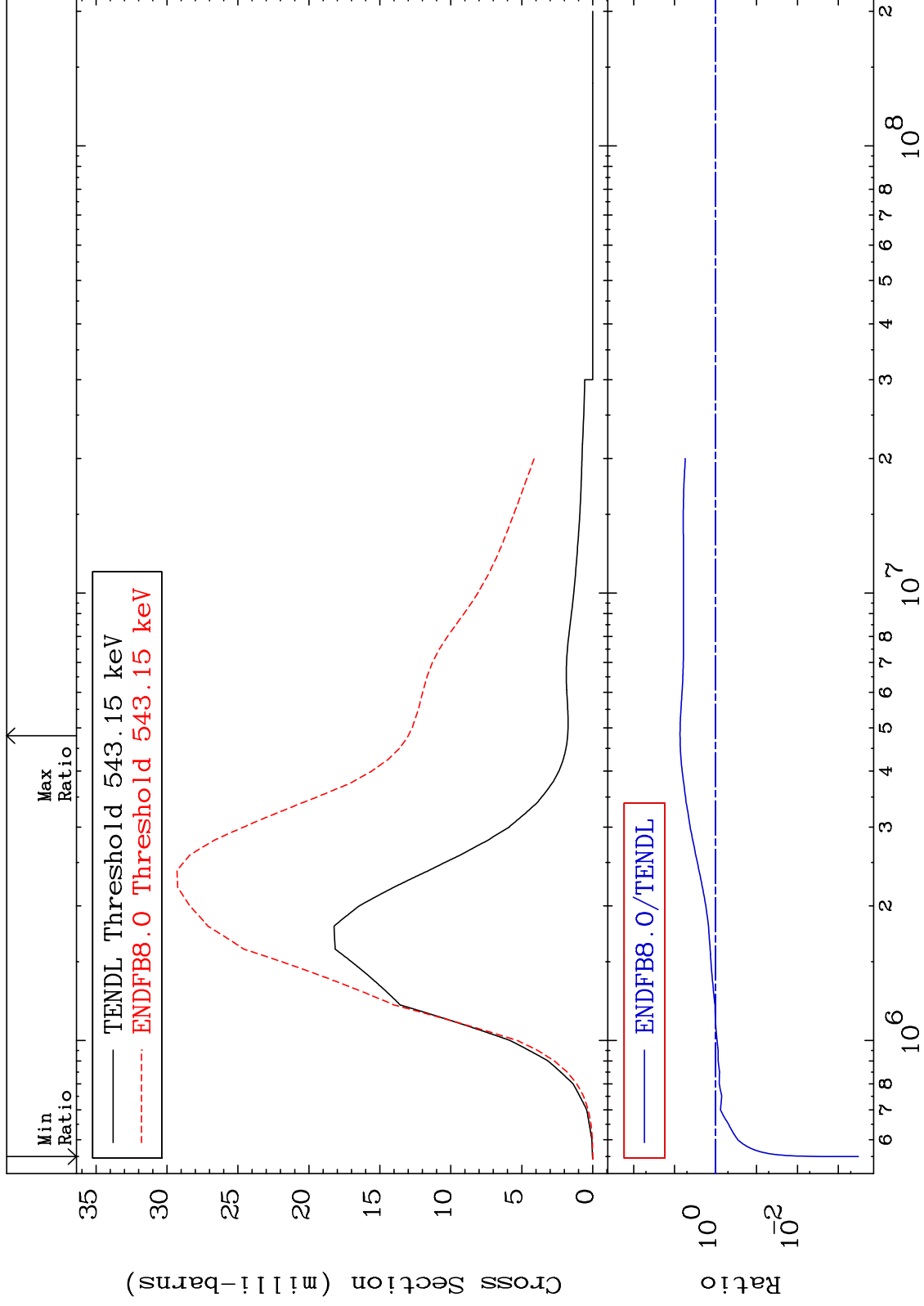
Incident Energy (eV)

70-Yb-172

MAT 7037

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

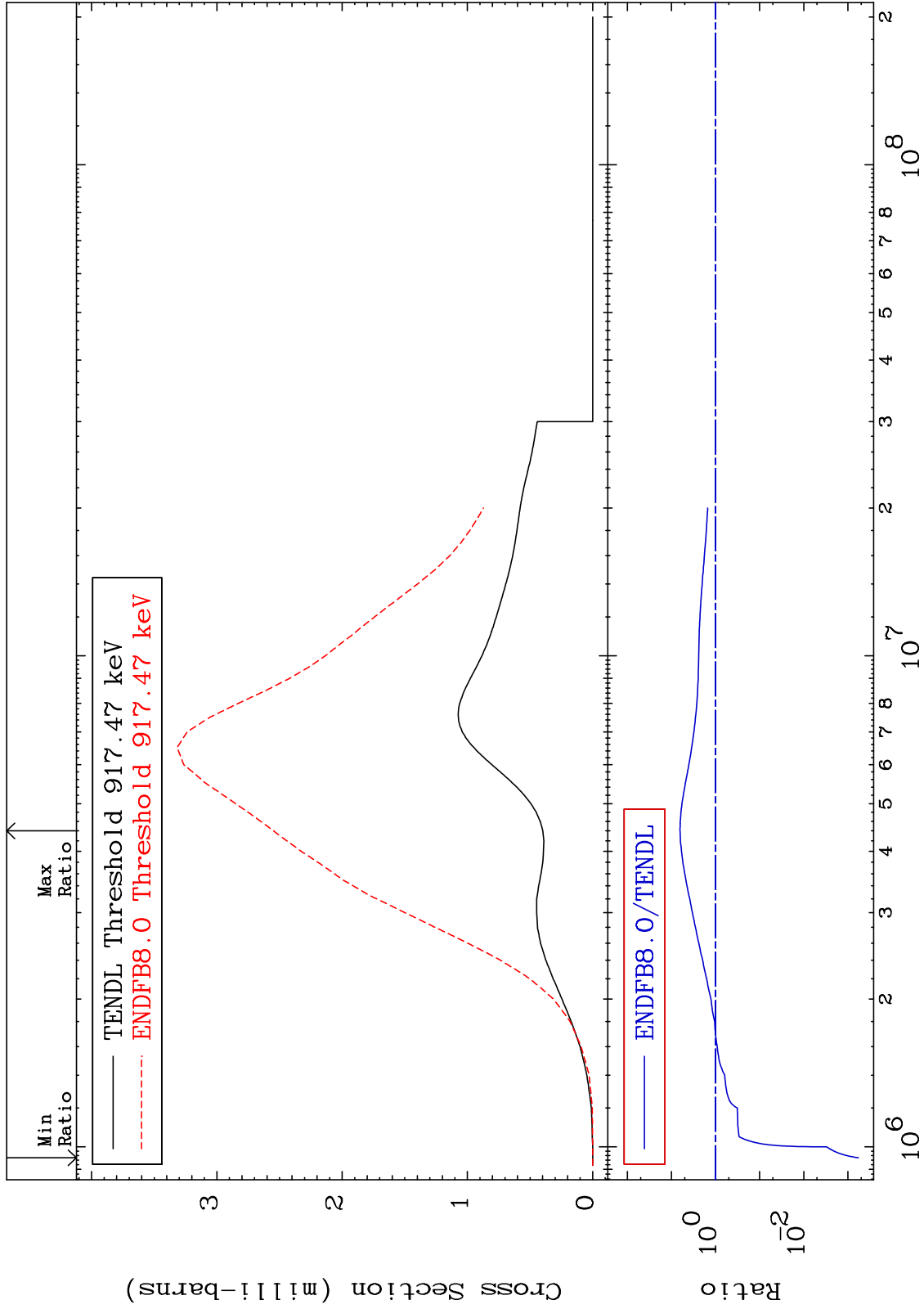
70-Yb-172
-99.97 To 636.0 %



MAT 7037

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

70-Yb-172
-99.94 To 539.6 %

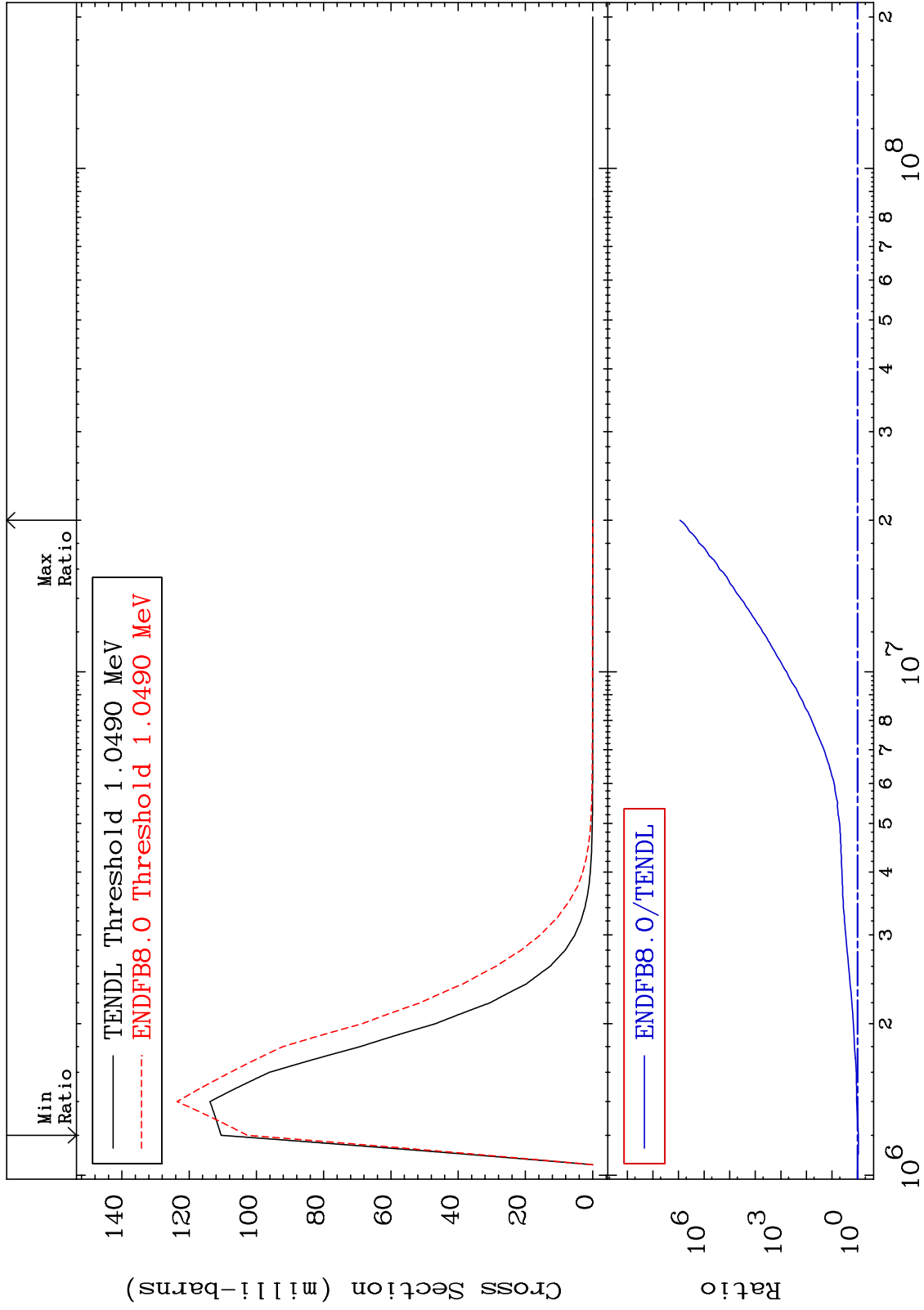


12 70-Yb-172

MAT 7037

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

70-Yb-172
-7.059 To 9999. %



Incident Energy (eV)

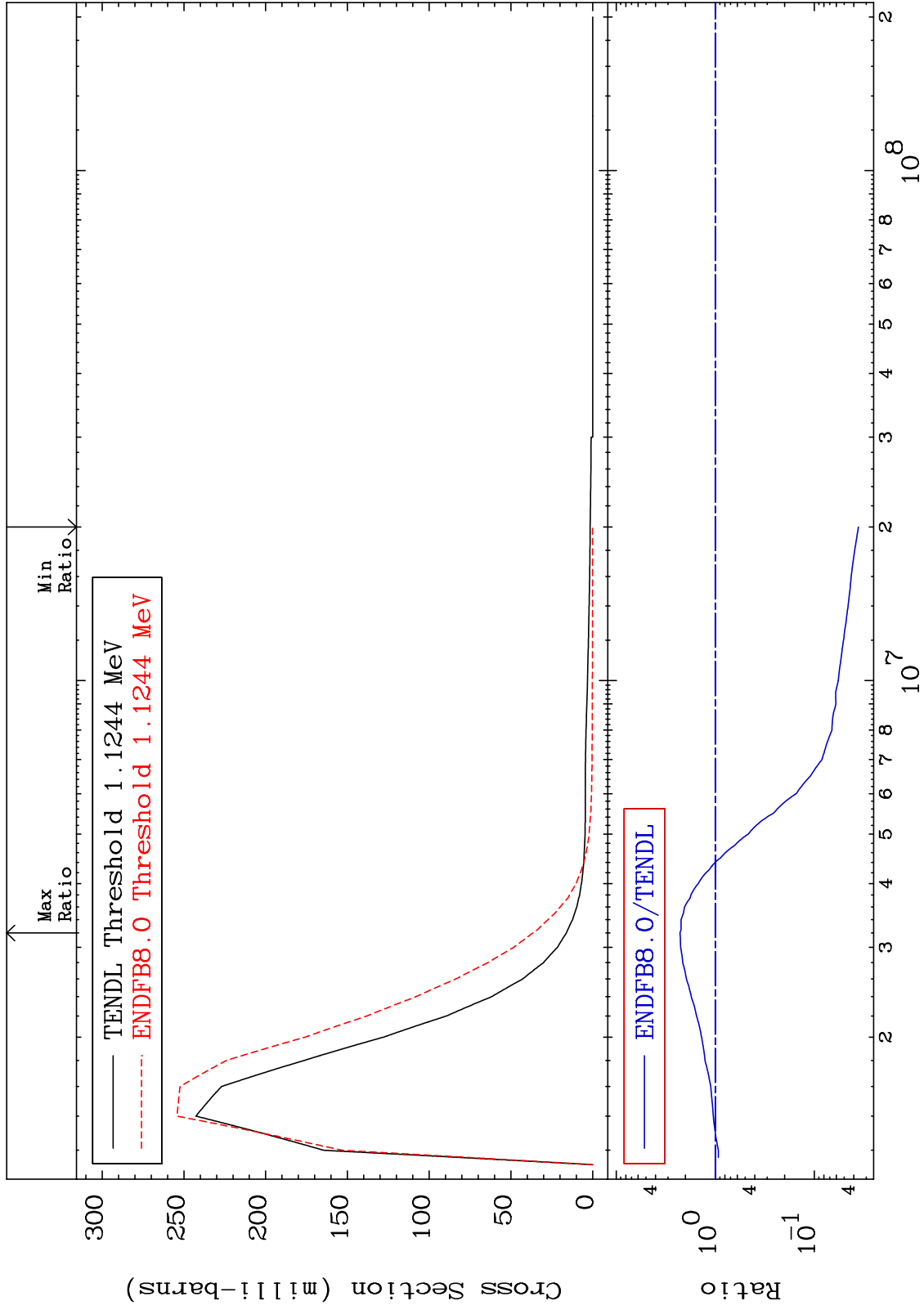
70-Yb-172

13

MAT 7037

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

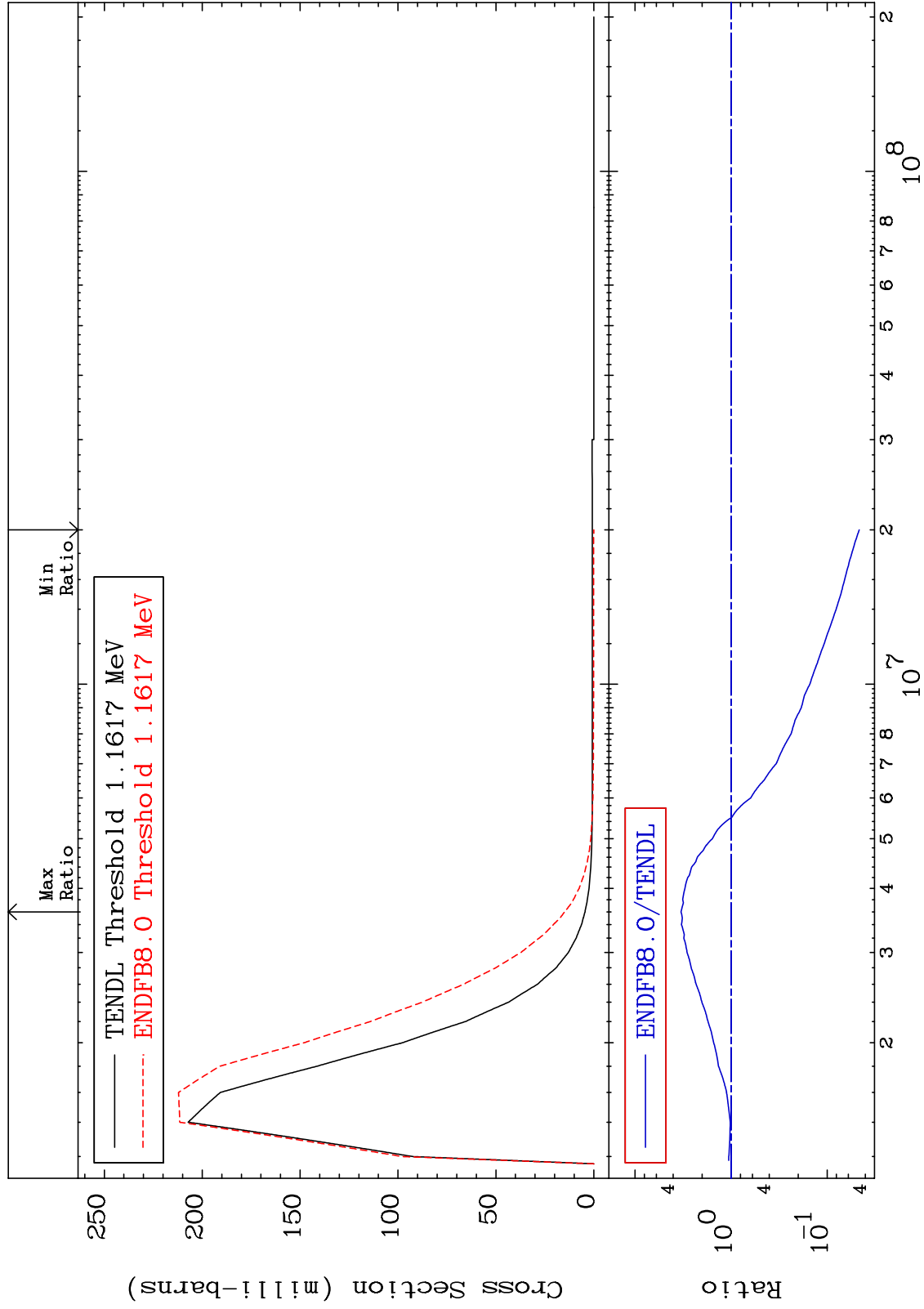
70-Yb-172
-96.41 To 126.9 %



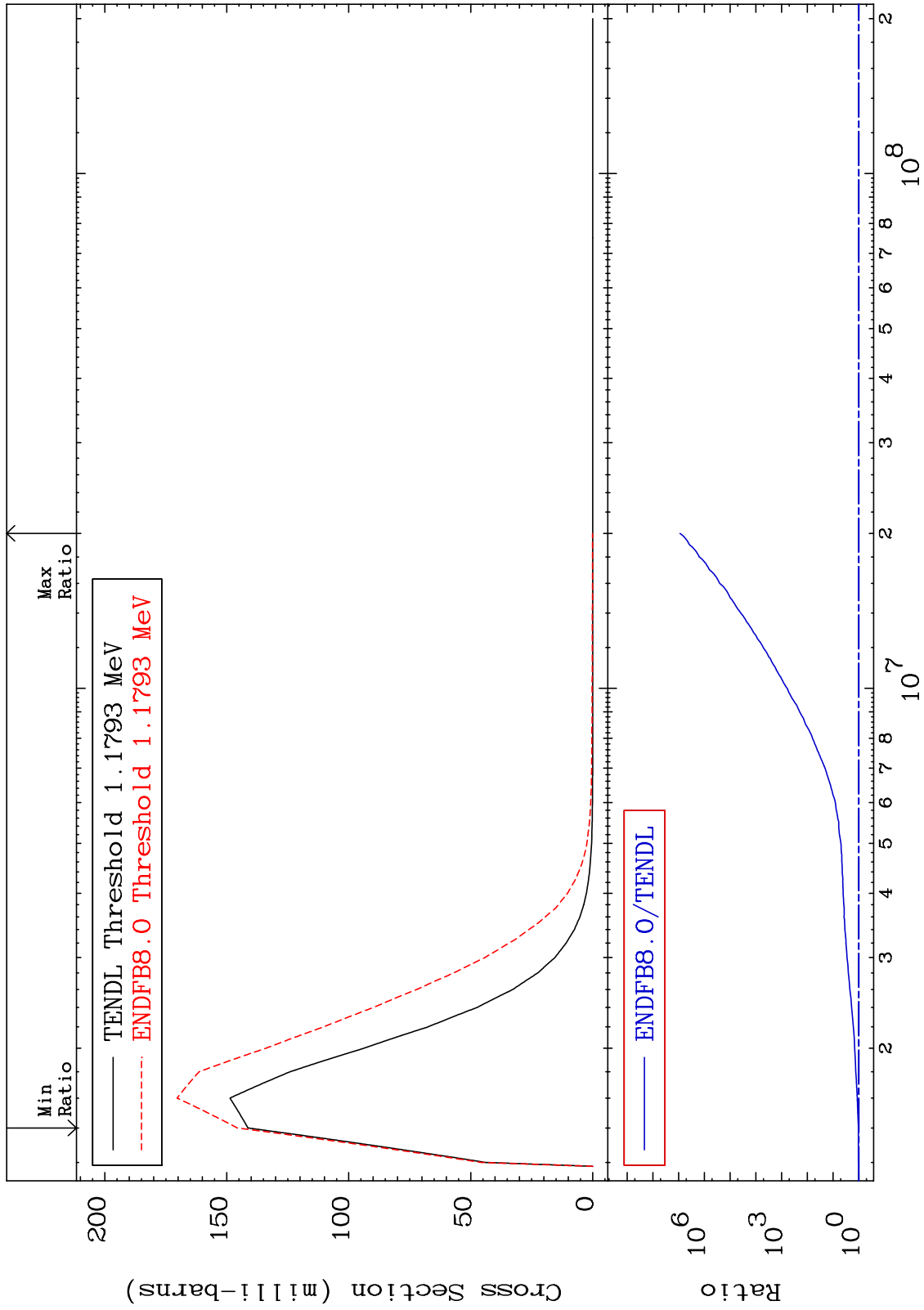
MAT 7037

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

70-Yb-172
-95.37 To 231.6 %



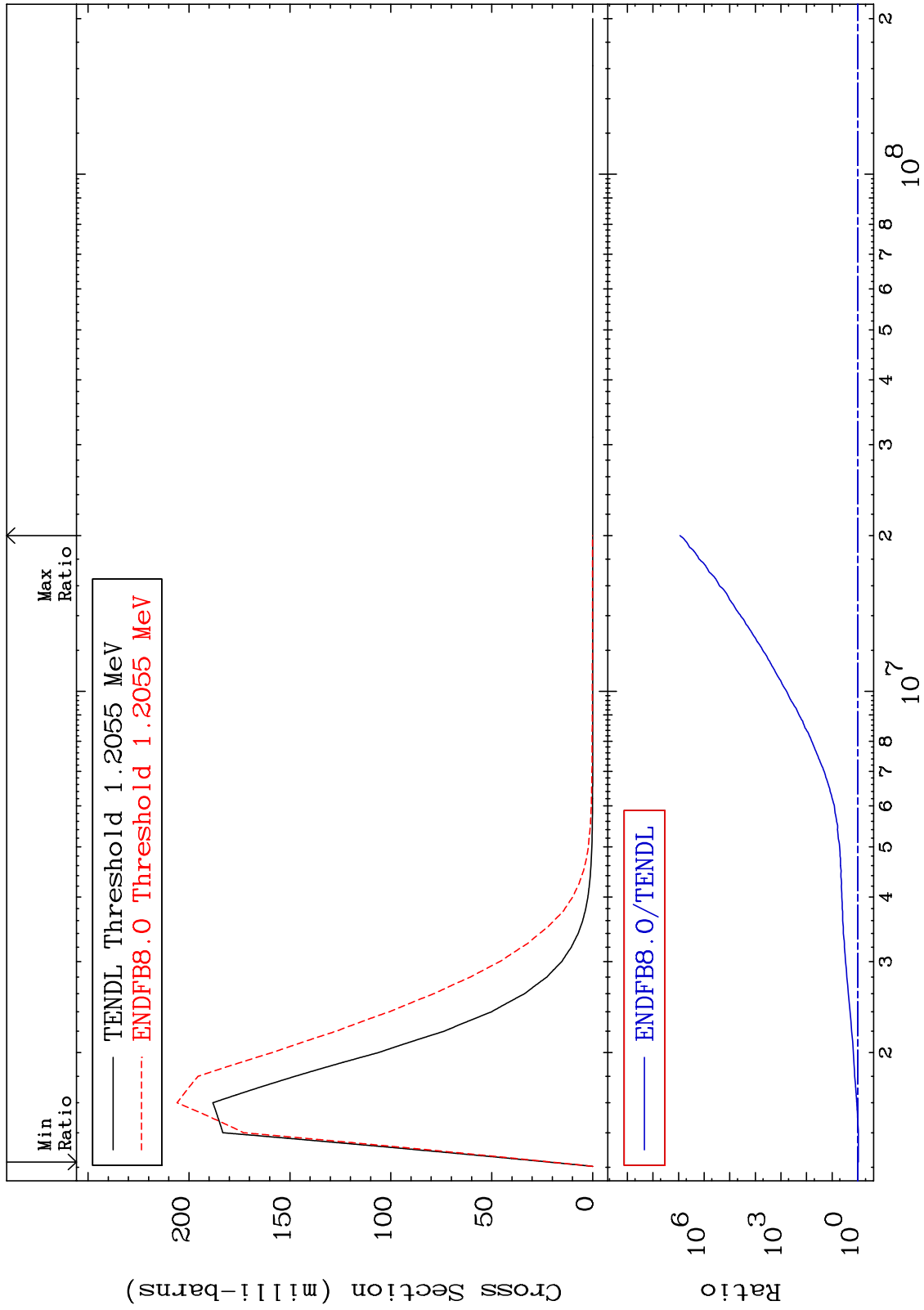
MAT 7037 MT= 58 (n, n') Level Cross Section 70-Yb-172 To 9999. %
 3.075



MAT 7037

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

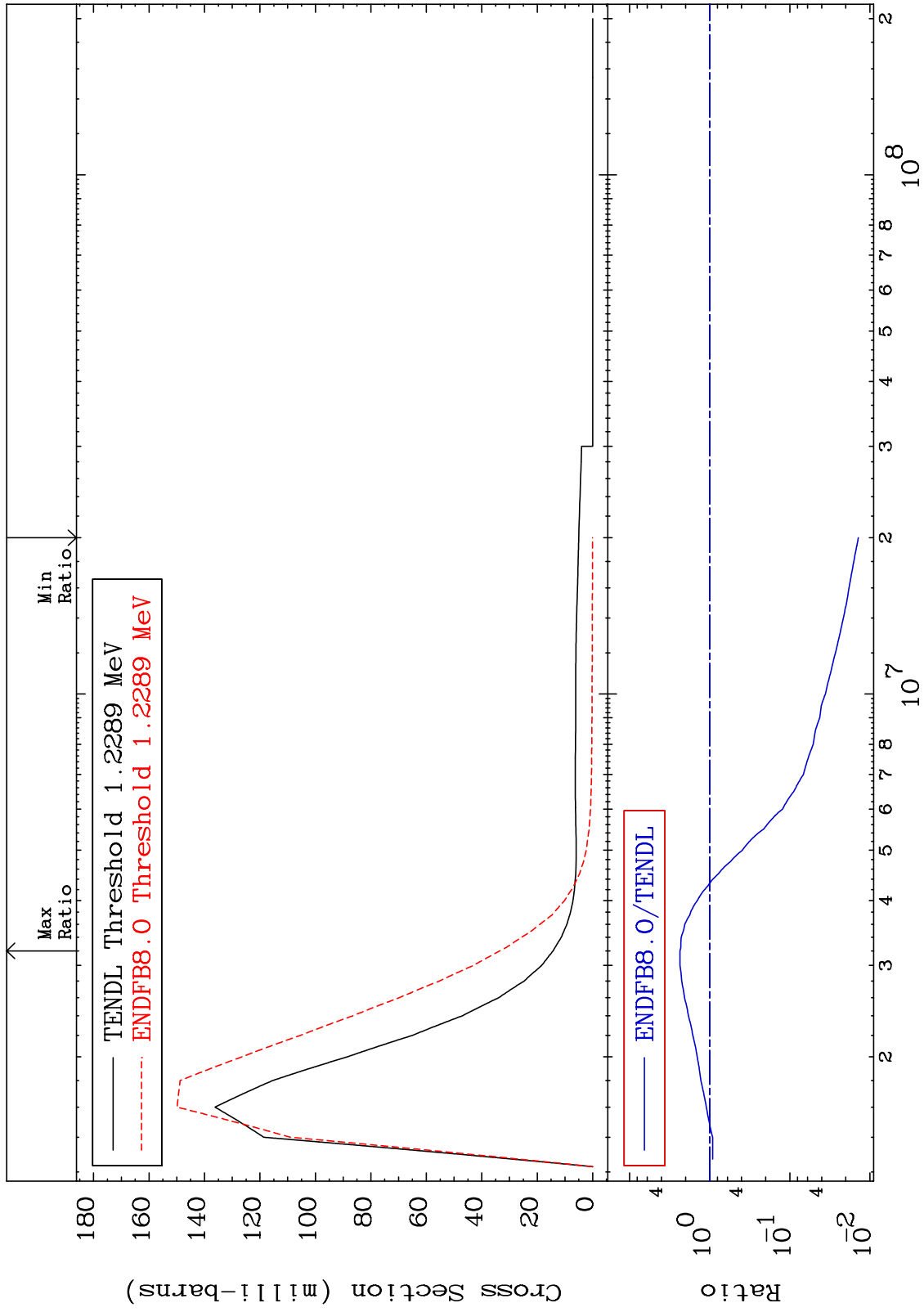
70-Yb-172
-5.681 To 9999. %



MAT 7037

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

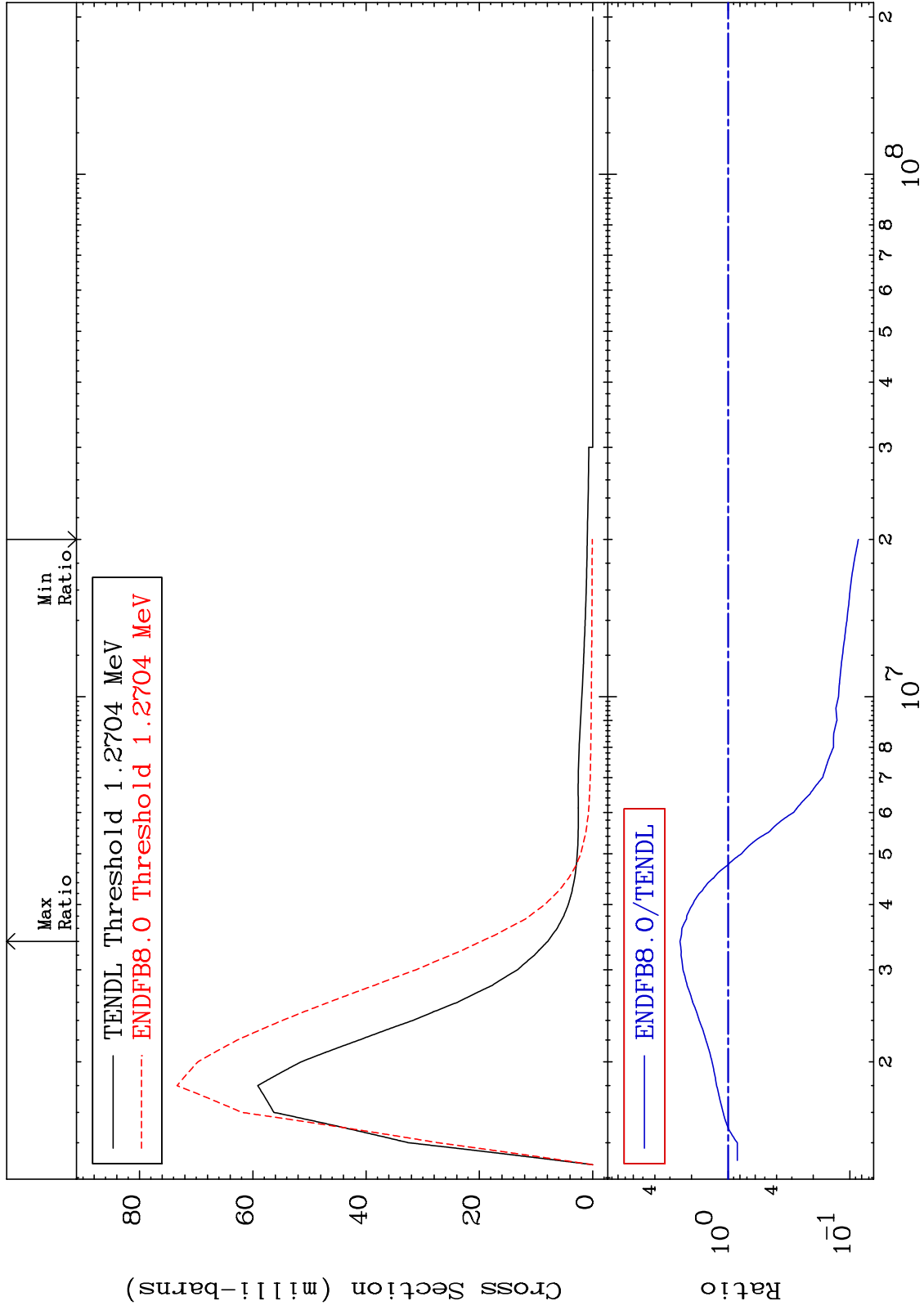
70-Yb-172
-98.61 To 134.3 %



MAT 7037

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

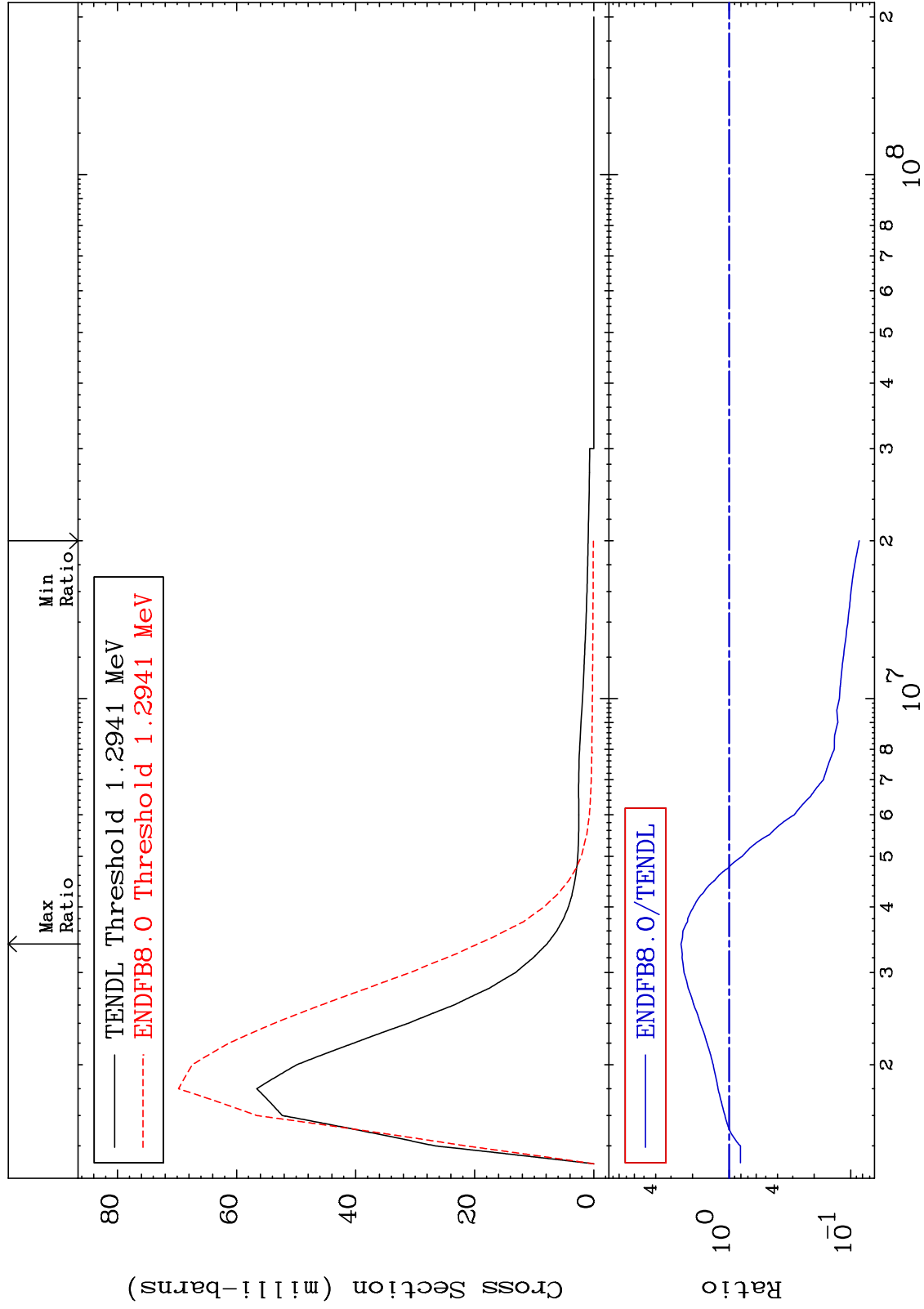
70-Yb-172
-91.49 To 148.2 %



MAT 7037

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

70-Yb-172
-91.49 To 148.1 %

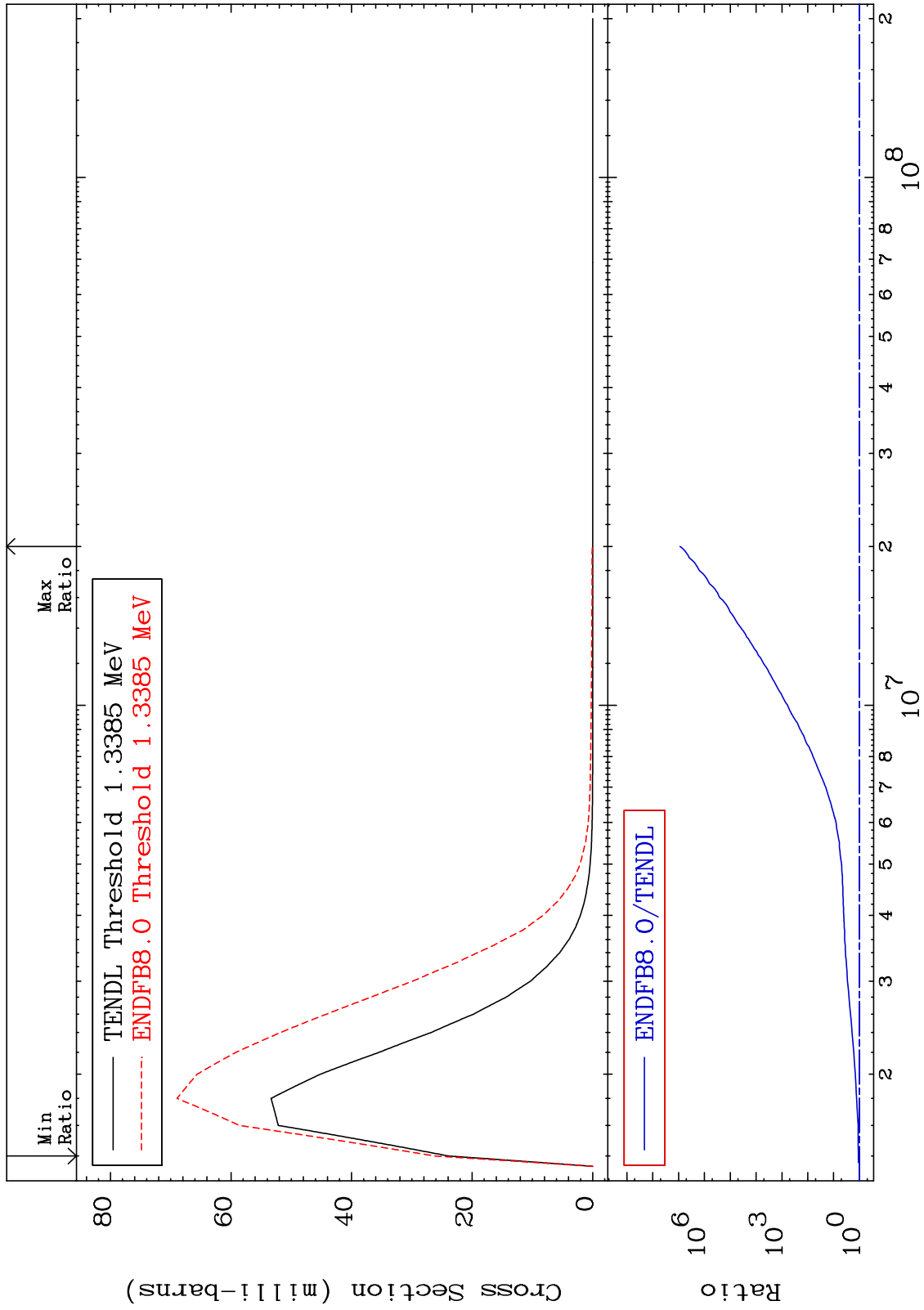


20

70-Yb-172

70-Yb-172

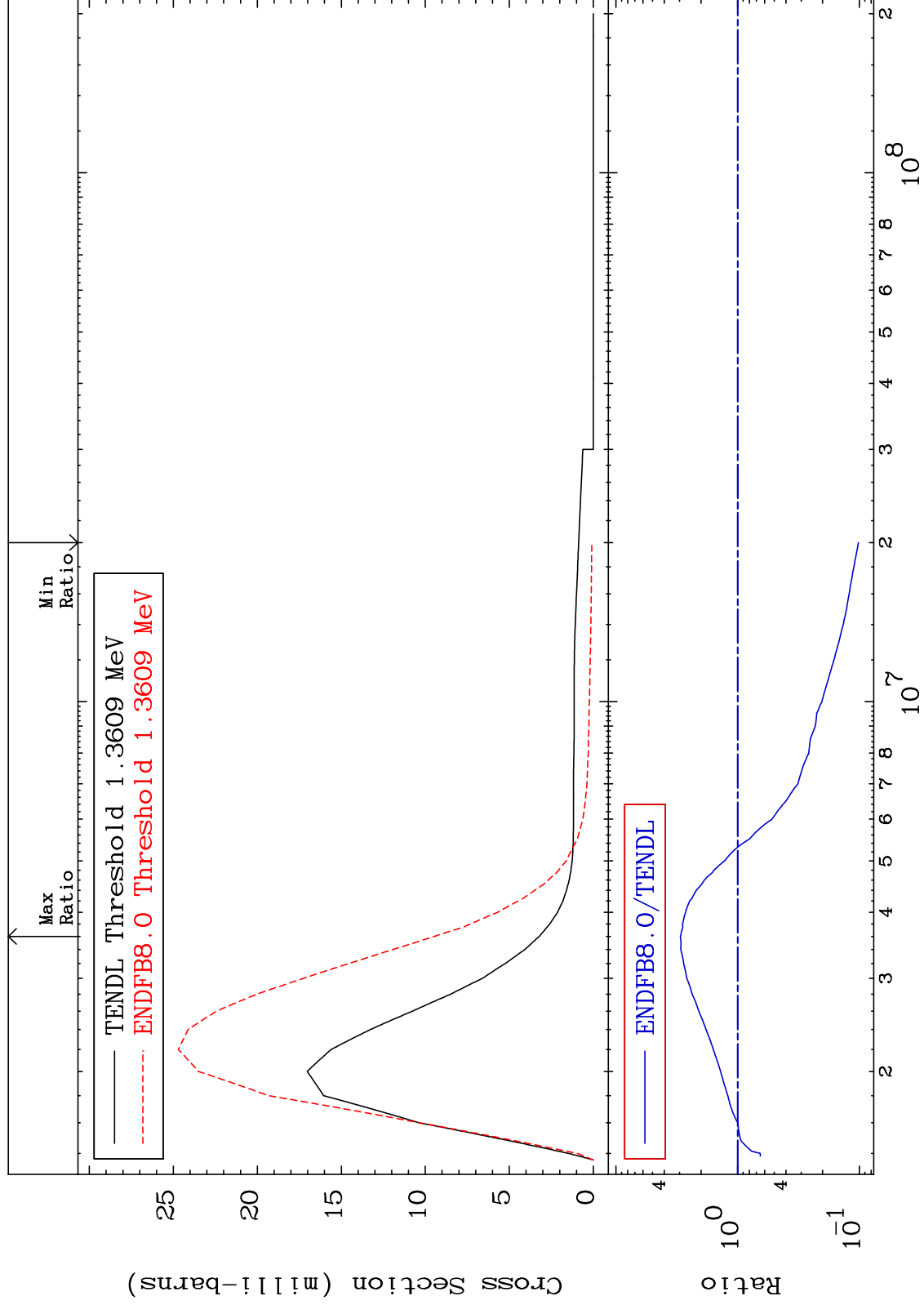
MAT 7037 MT= 63 (n, n') Level Cross Section 70-Yb-172 To 9999. %



MAT 7037

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

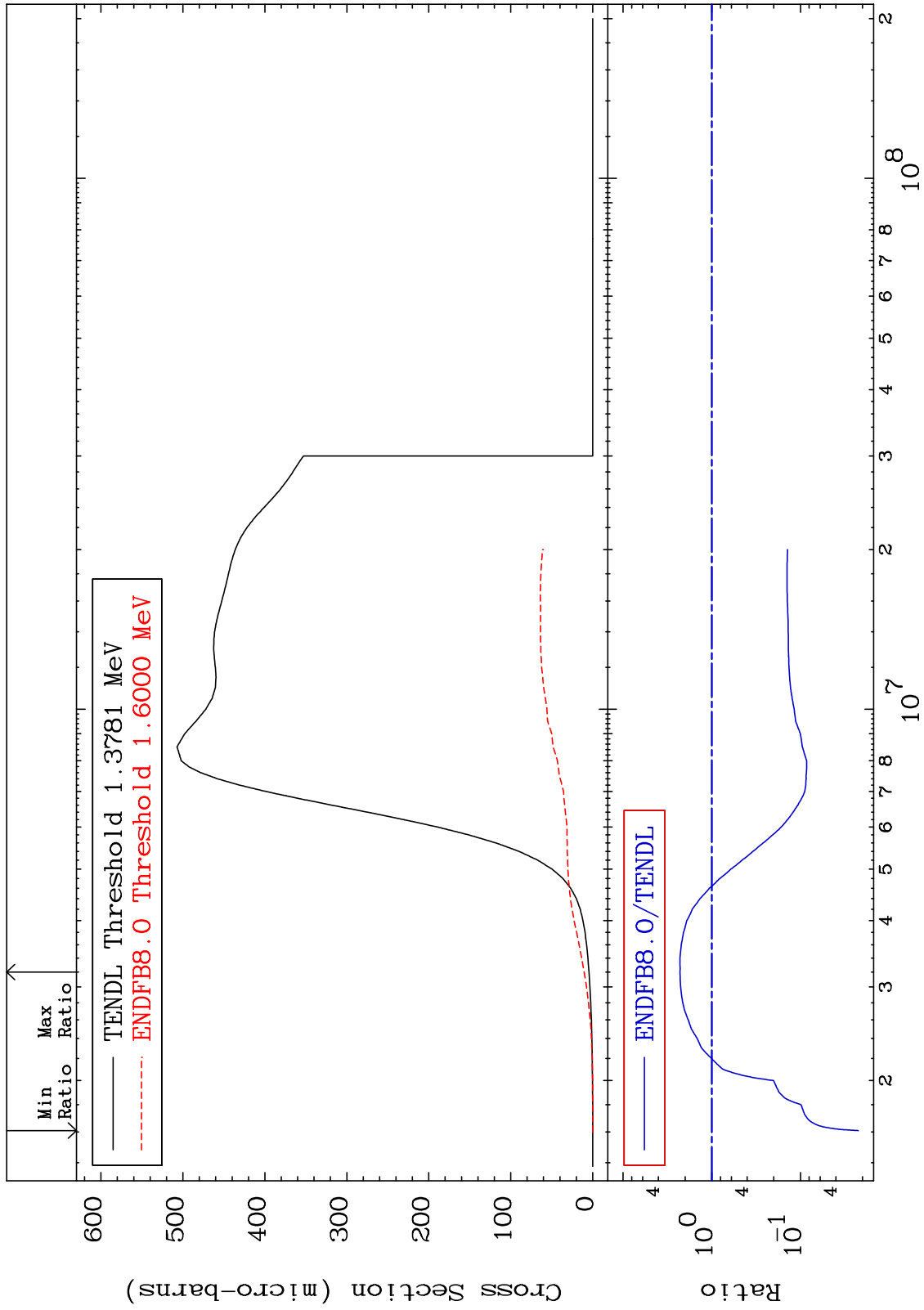
70-Yb-172
-89.86 To 194.9 %



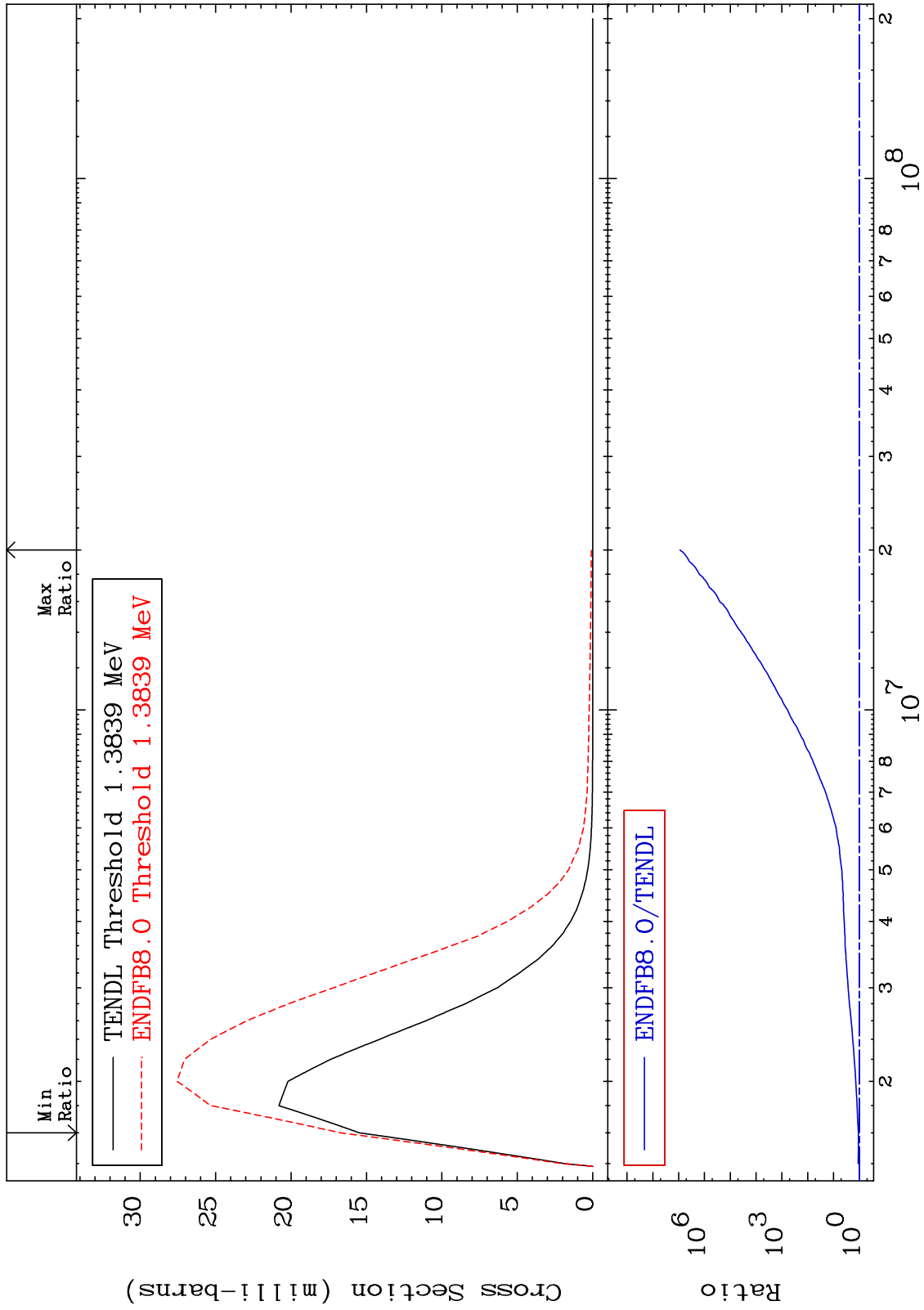
MAT 7037

MT= 65 (n,n') Level
Cross Section

70-Yb-172
-97.77 To 128.2 %



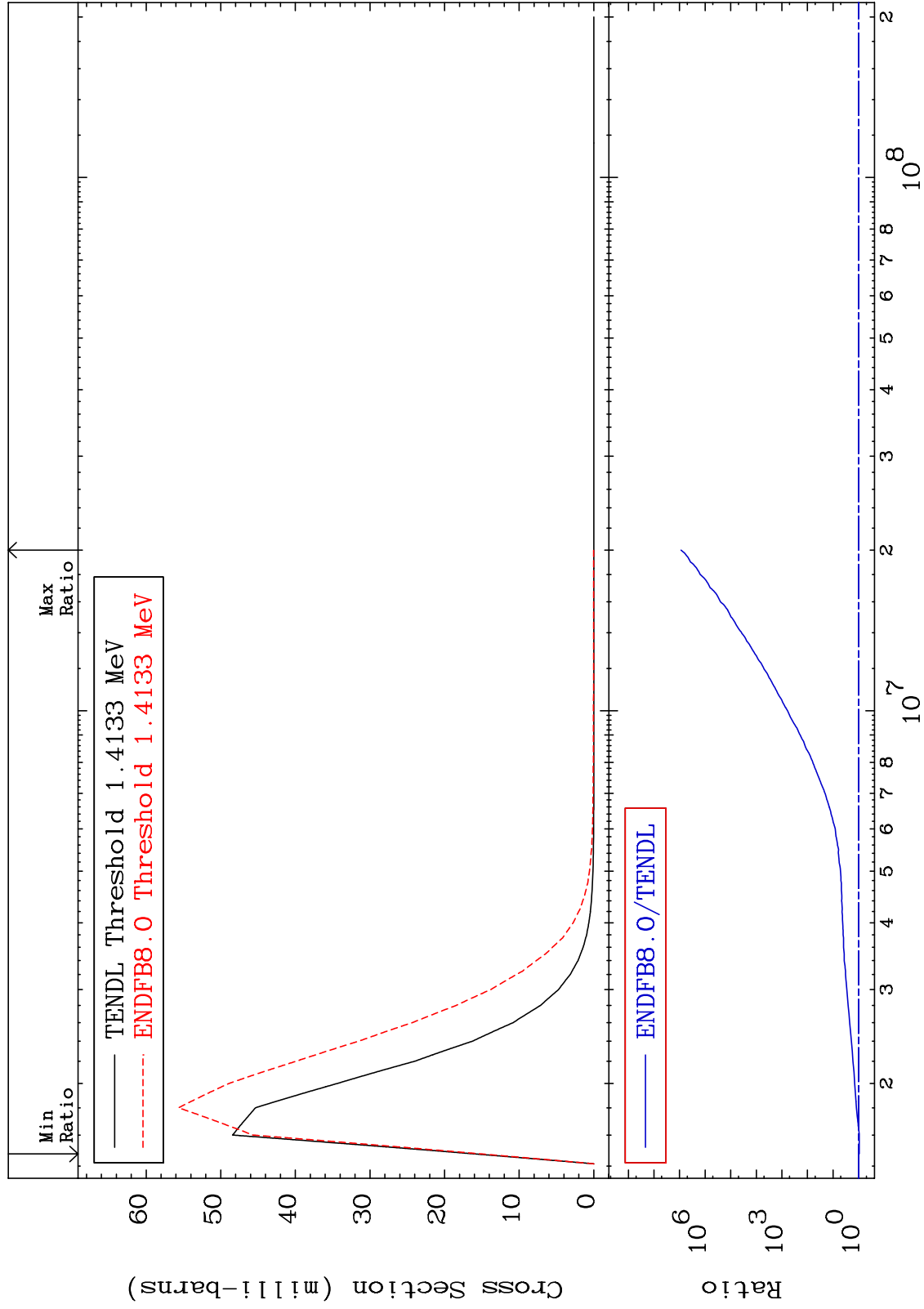
MAT 7037 MT= 66 (n,n') Level Cross Section 70-Yb-172
 8.082 To 9999. %



MAT 7037

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

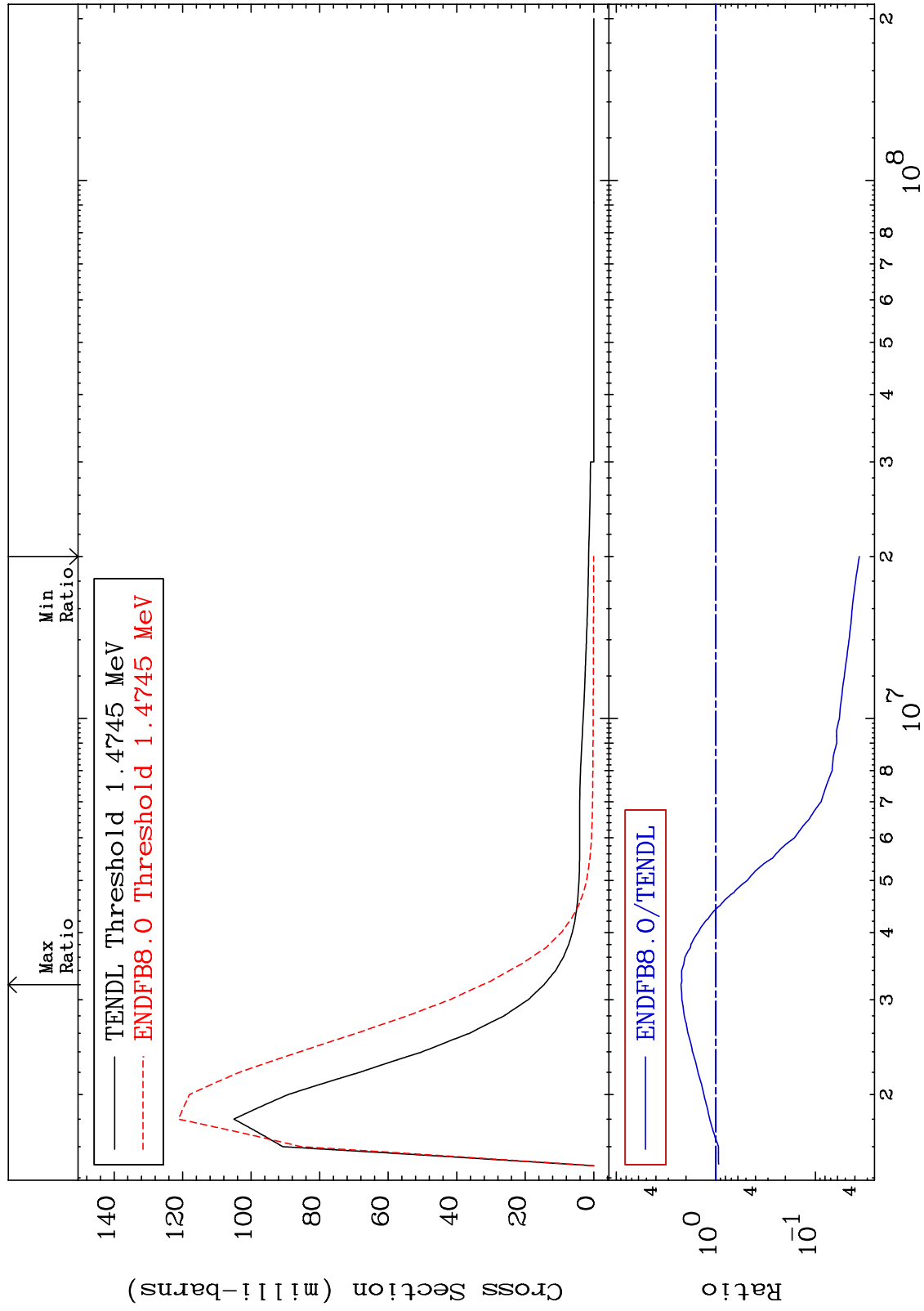
70-Yb-172
-5.653 To 9999. %



MAT 7037

MT= 68 (n,n') Level
Cross Section

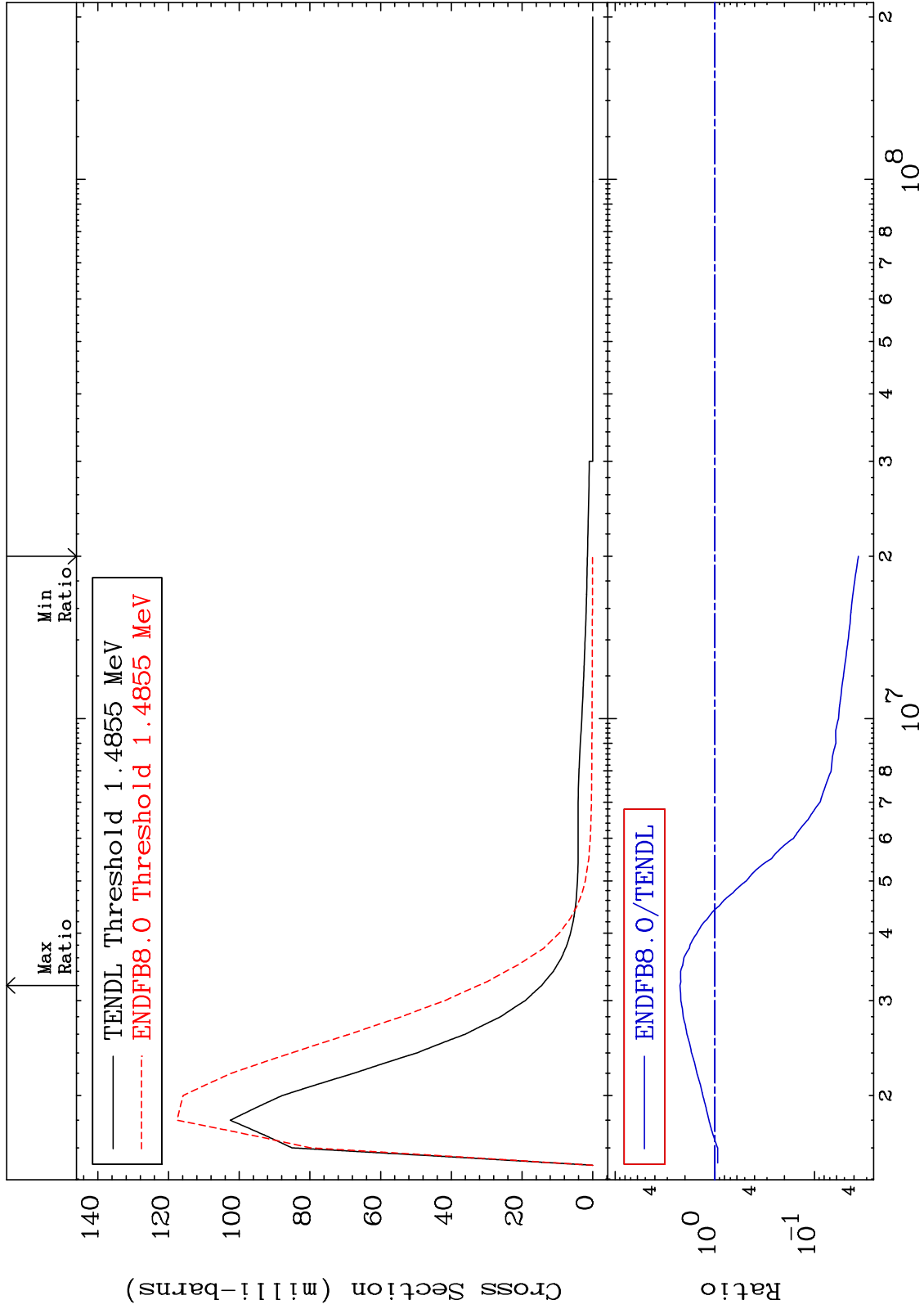
70-Yb-172
-96.38 To 123.8 %



MAT 7037

MT= 69 (n,n') Level
Cross Section

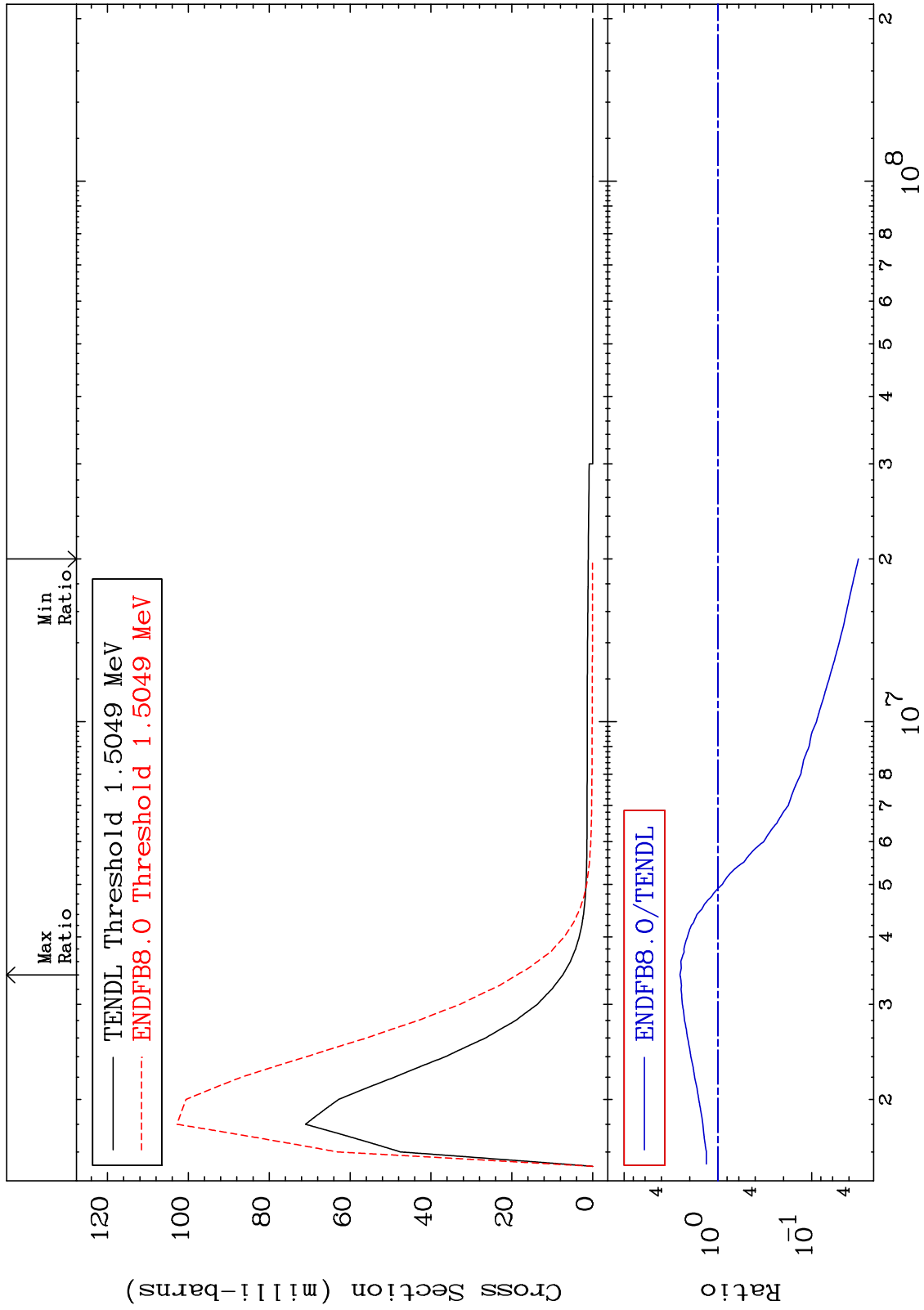
70-Yb-172
-96.38 To 123.7 %



MAT 7037

MT= 70 (n,n') Level
Cross Section

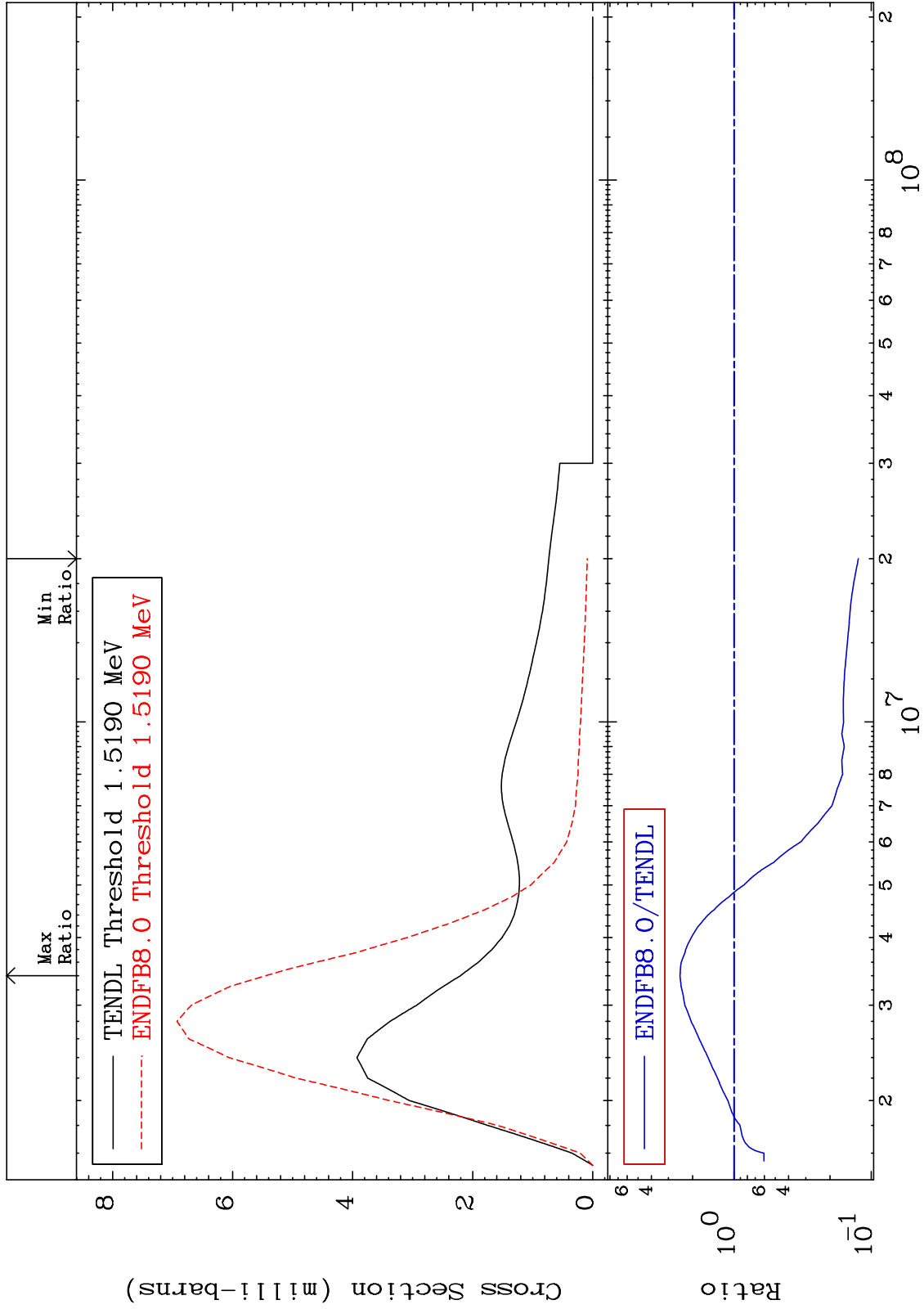
70-Yb-172
-96.82 To 153.7 %



MAT 7037

MT= 71 (n,n') Level
Cross Section

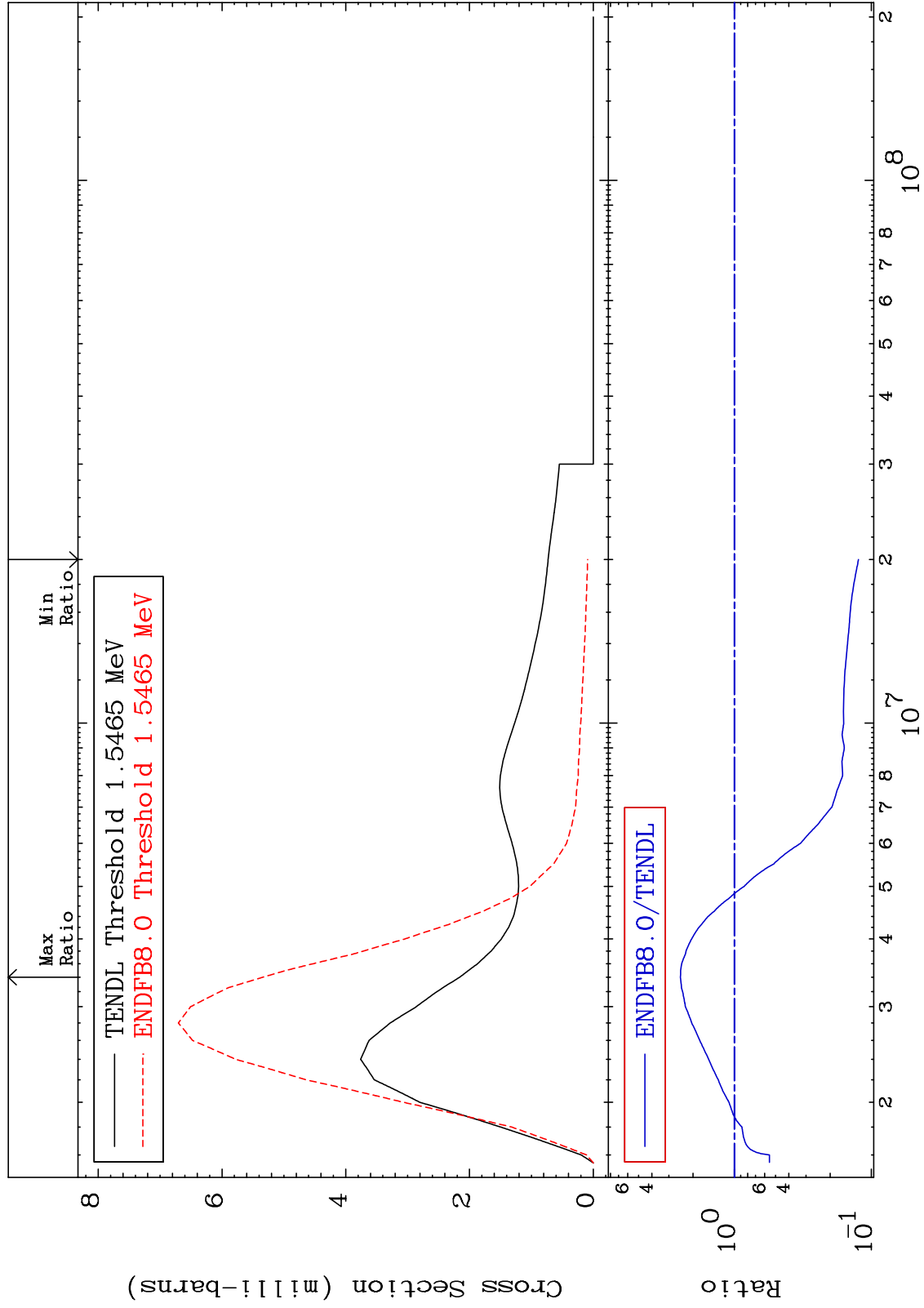
70-Yb-172
-87.60 To 147.2 %



MAT 7037

MT= 72 (n,n') Level
Cross Section

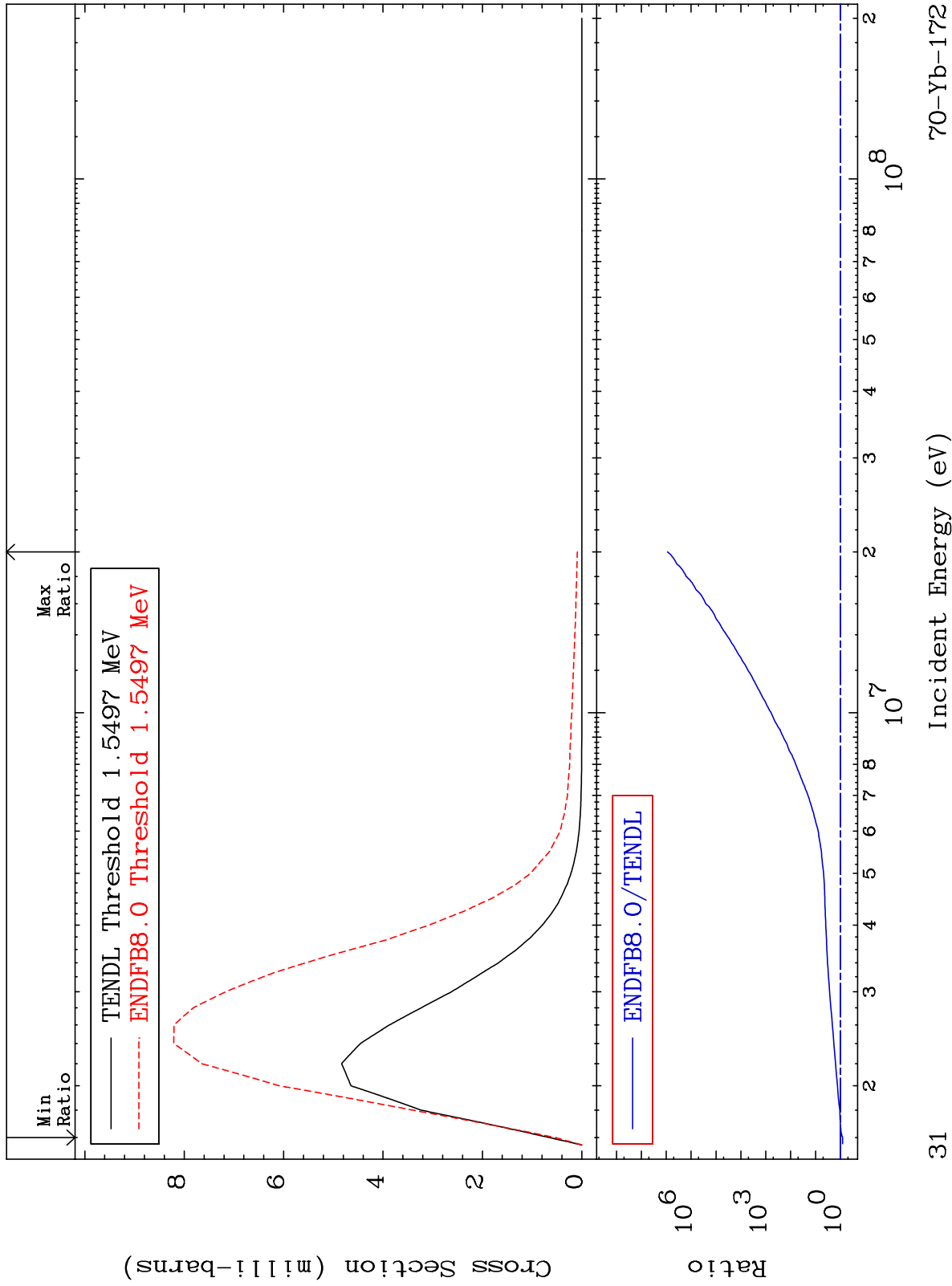
70-Yb-172
-87.60 To 147.2 %



30

70-Yb-172

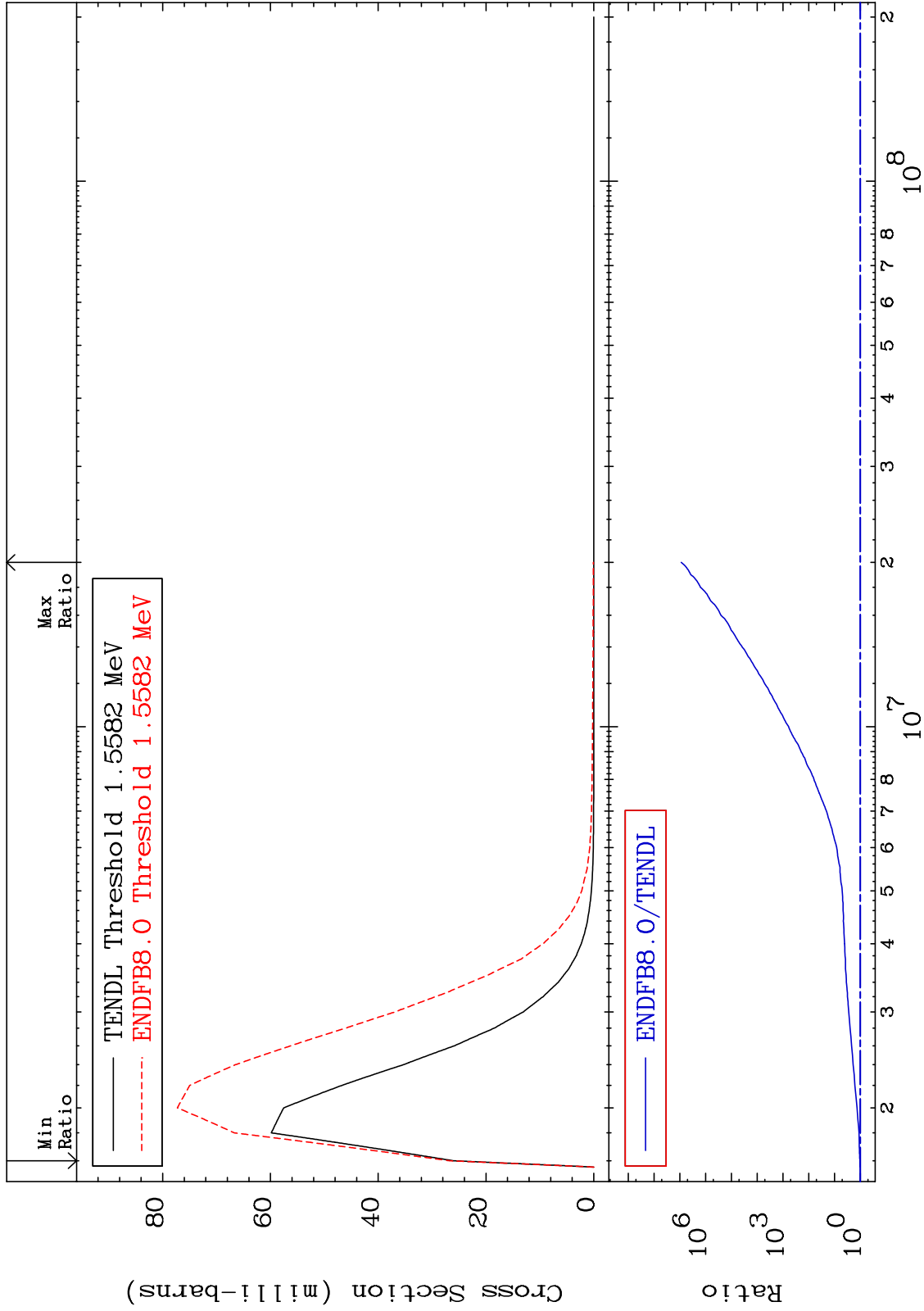
MAT 7037 MT= 73 (n,n') Level Cross Section 70-Yb-172
 -18.68 To 9999. %



MAT 7037

MT= 74 (n,n') Level
Cross Section

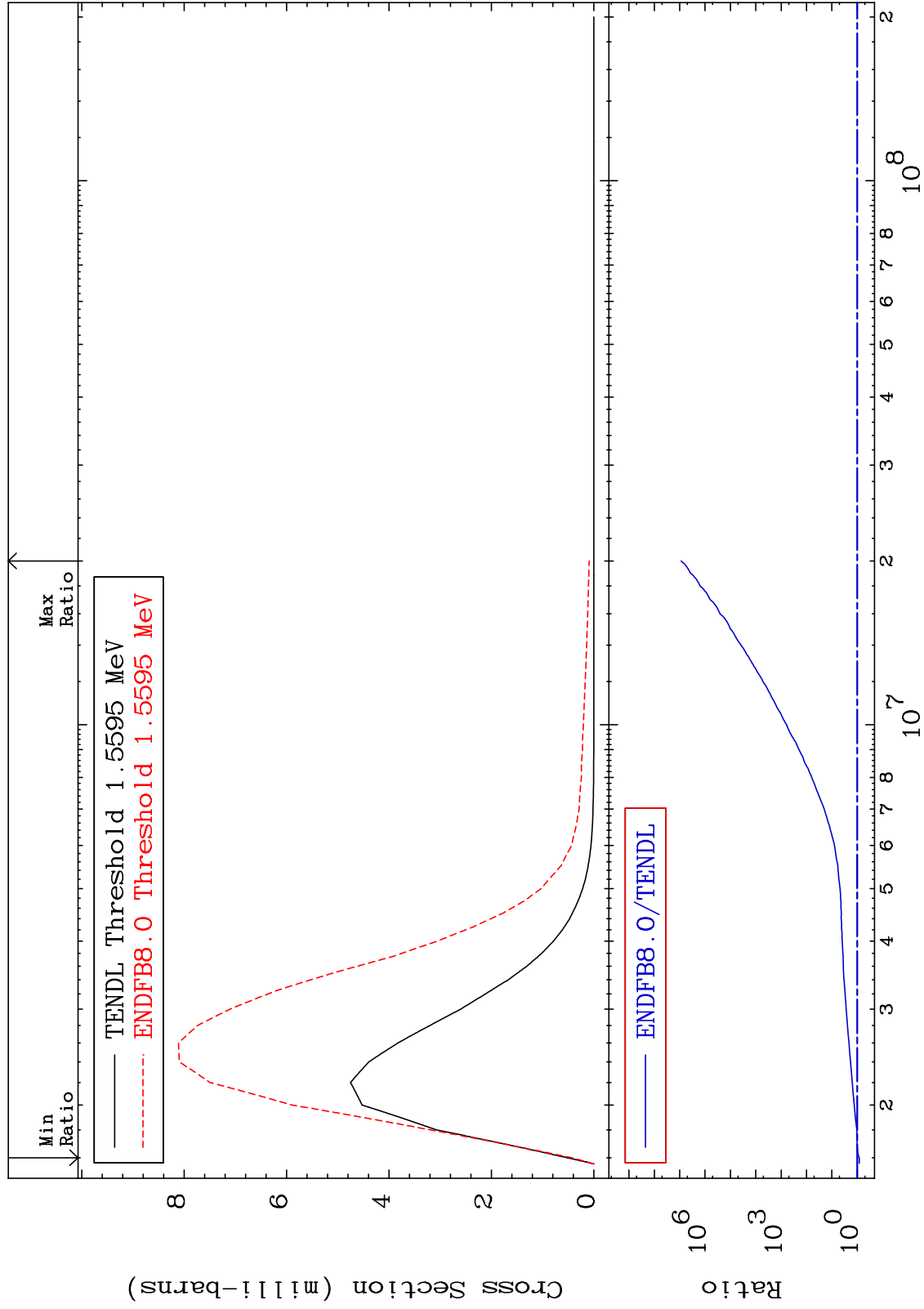
70-Yb-172
2.894 To 9999. %



MAT 7037

MT= 75 (n,n') Level
Cross Section

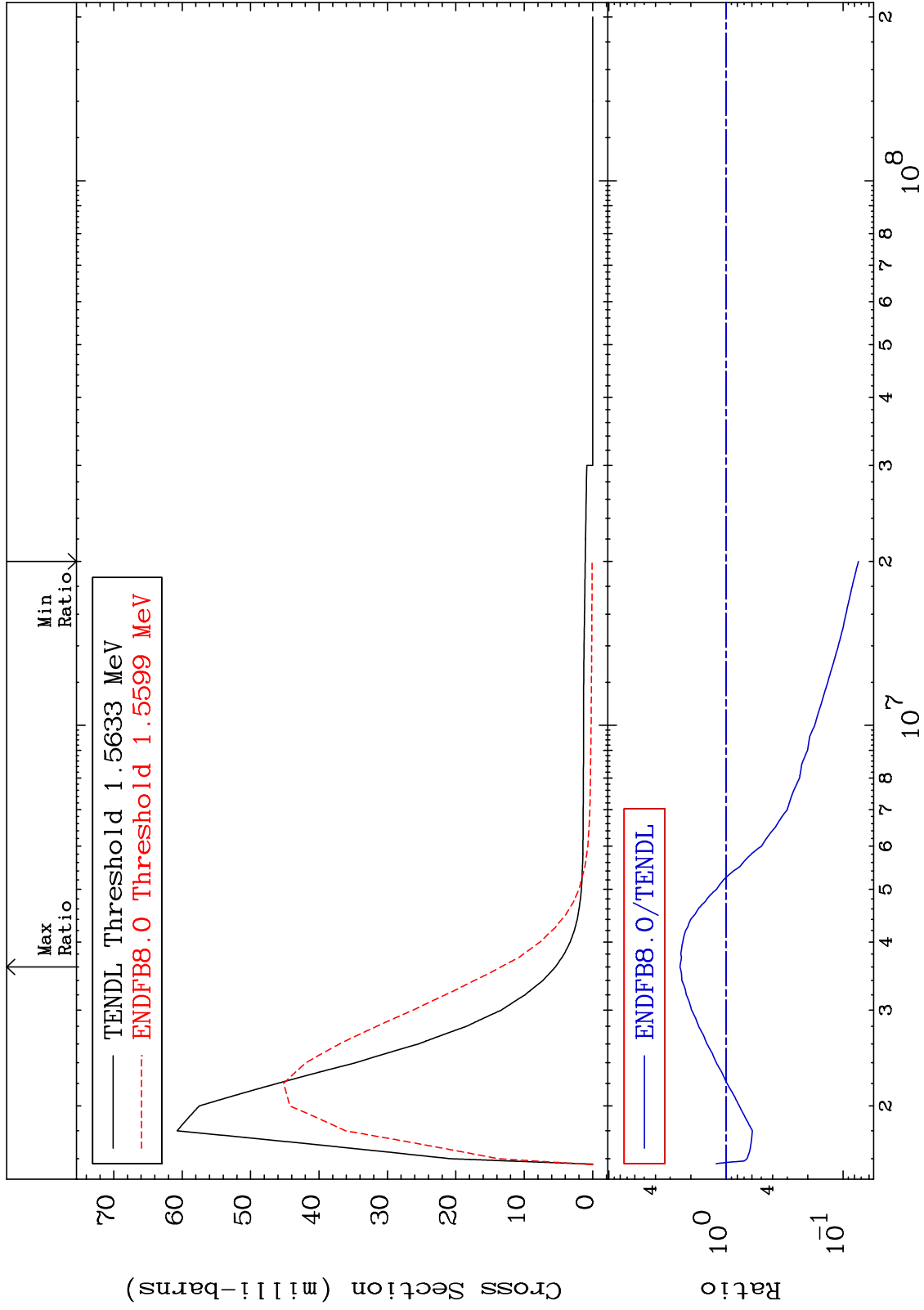
70-Yb-172
-17.40 To 9999. %



MAT 7037

MT= 76 (n,n') Level
Cross Section

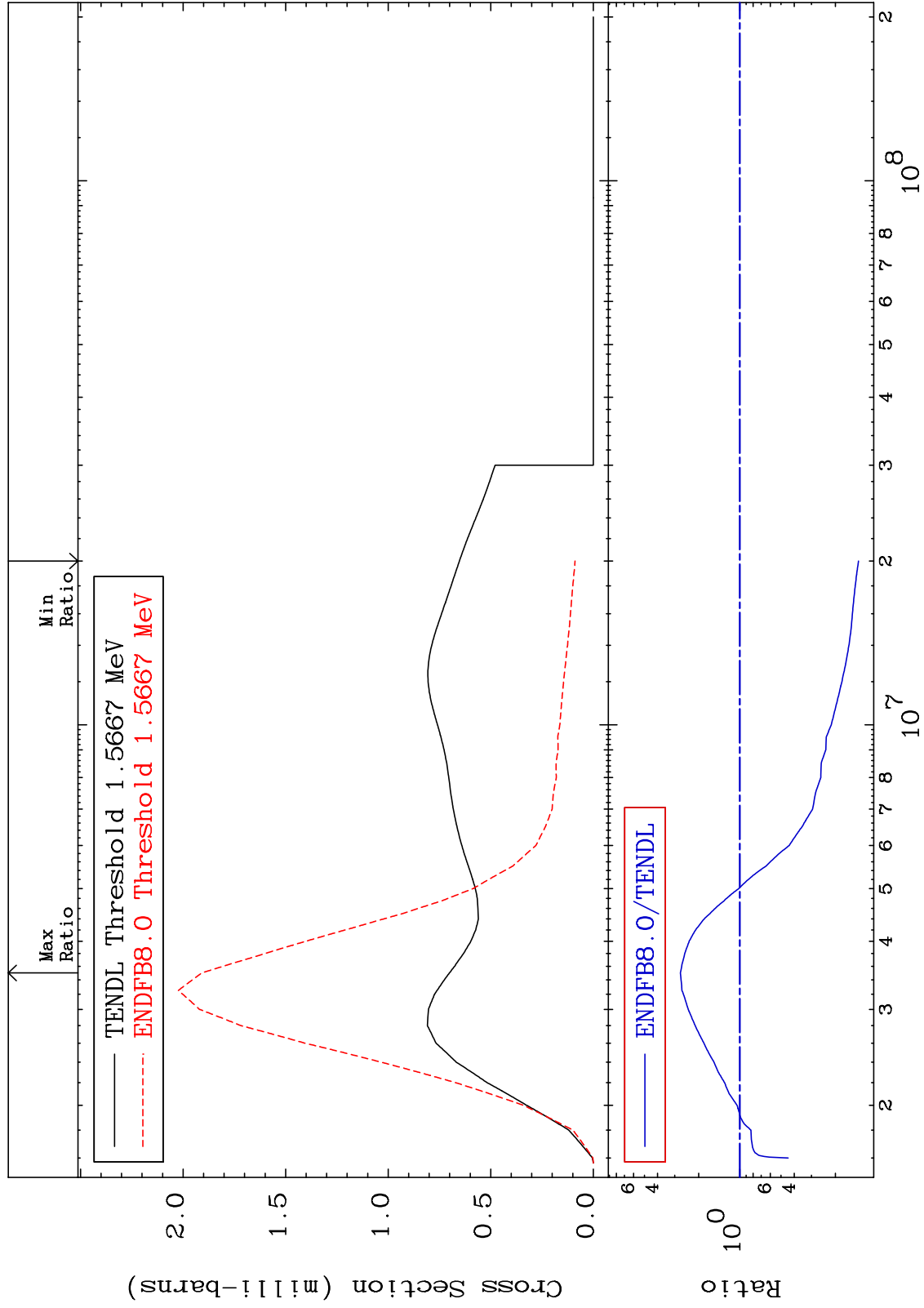
70-Yb-172
-92.61 To 147.0 %



MAT 7037

MT= 77 (n,n') Level
Cross Section

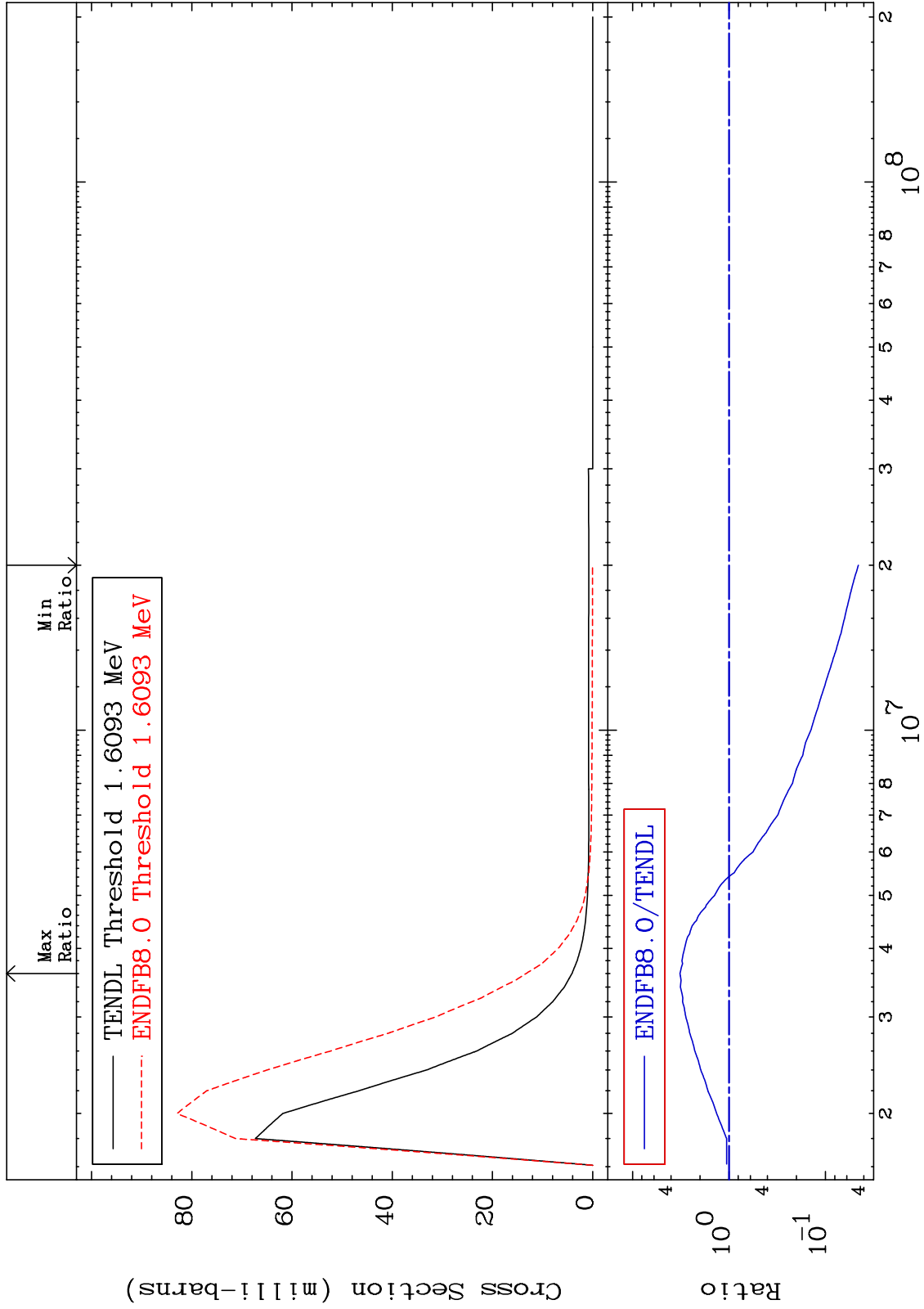
70-Yb-172
-86.44 To 172.2 %



MAT 7037

MT= 78 (n,n') Level
Cross Section

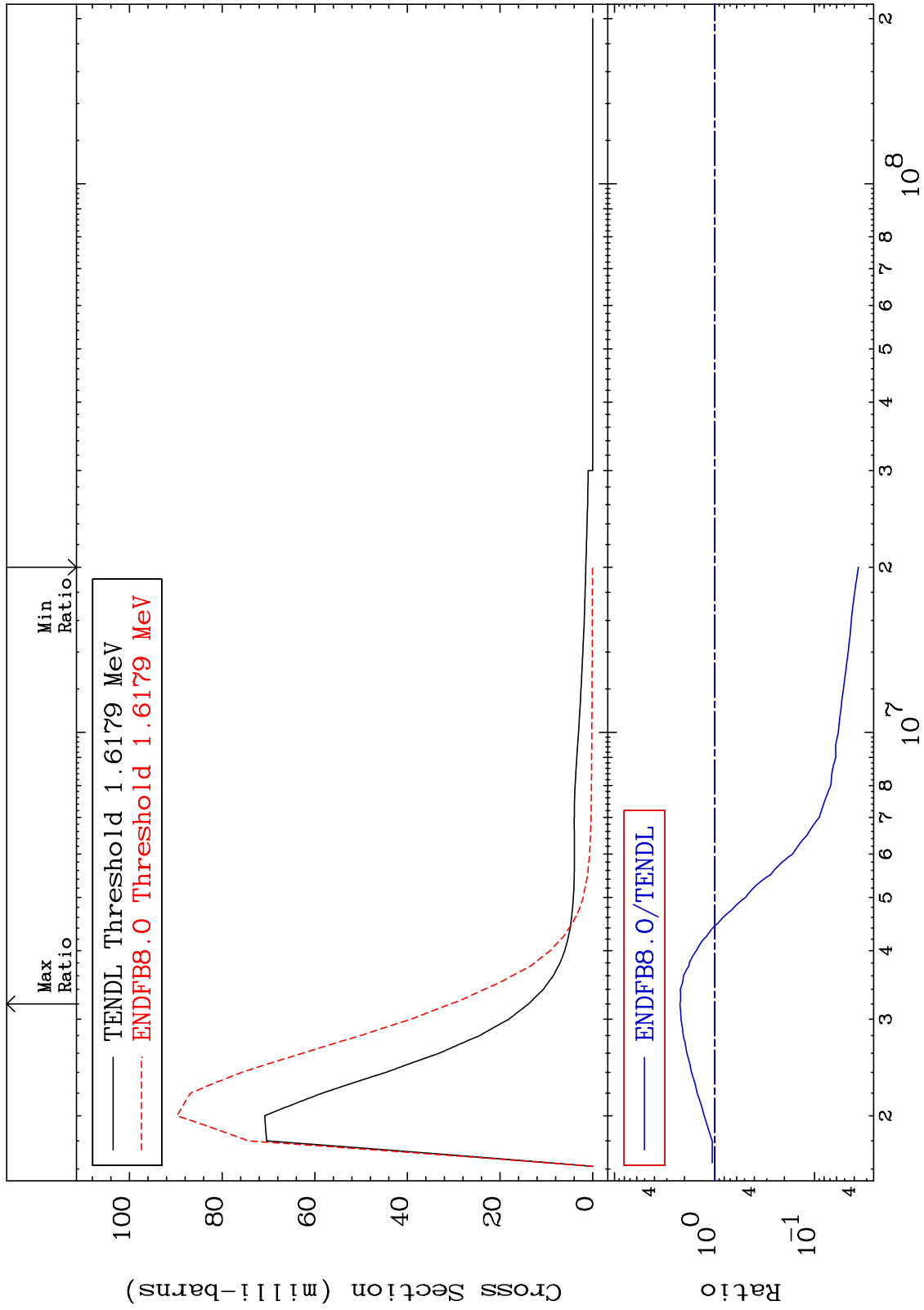
70-Yb-172
-95.46 To 221.7 %



MAT 7037

MT= 79 (n,n') Level
Cross Section

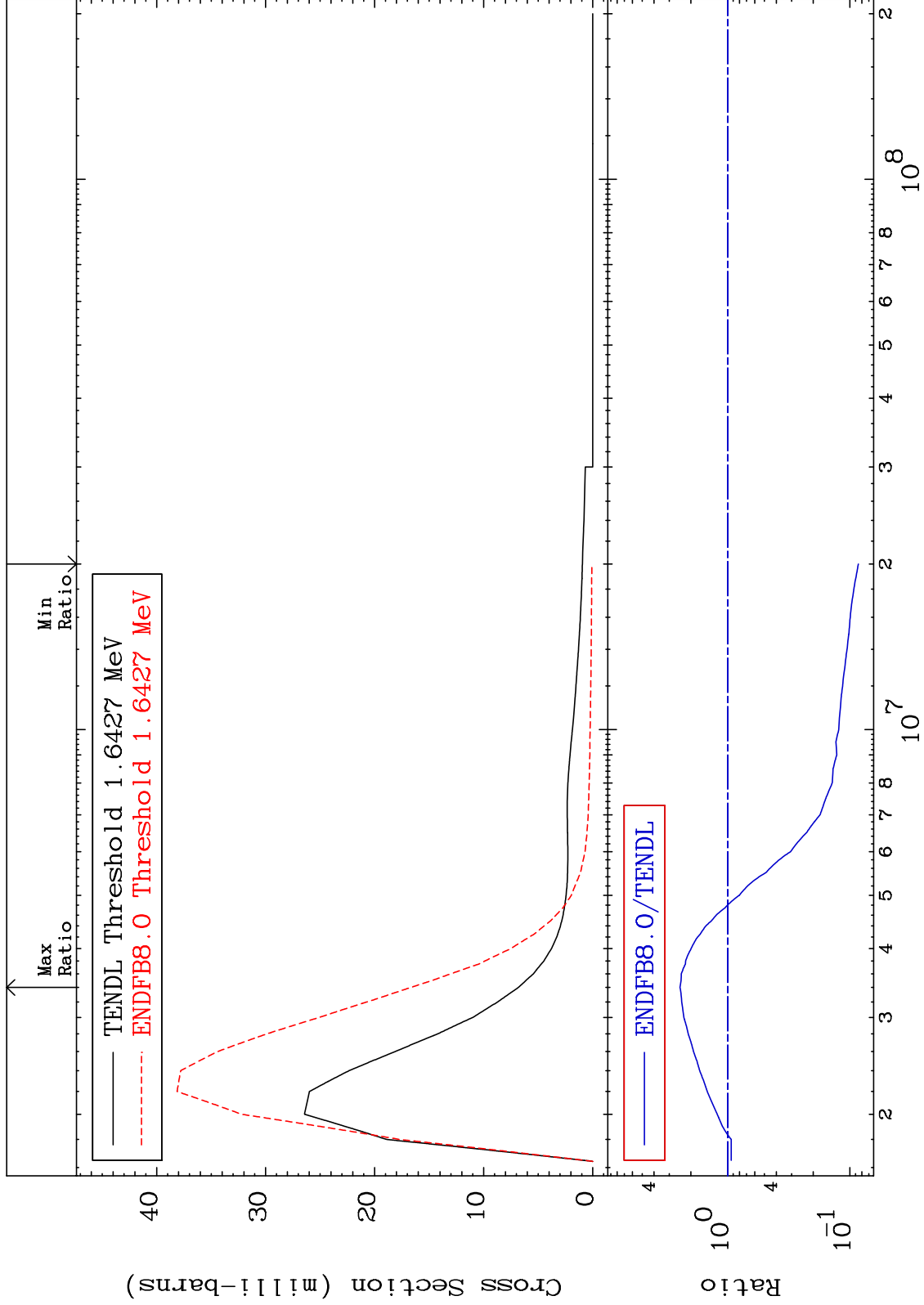
70-Yb-172
-96.37 To 121.5 %



MAT 7037

MT= 80 (n,n') Level
Cross Section

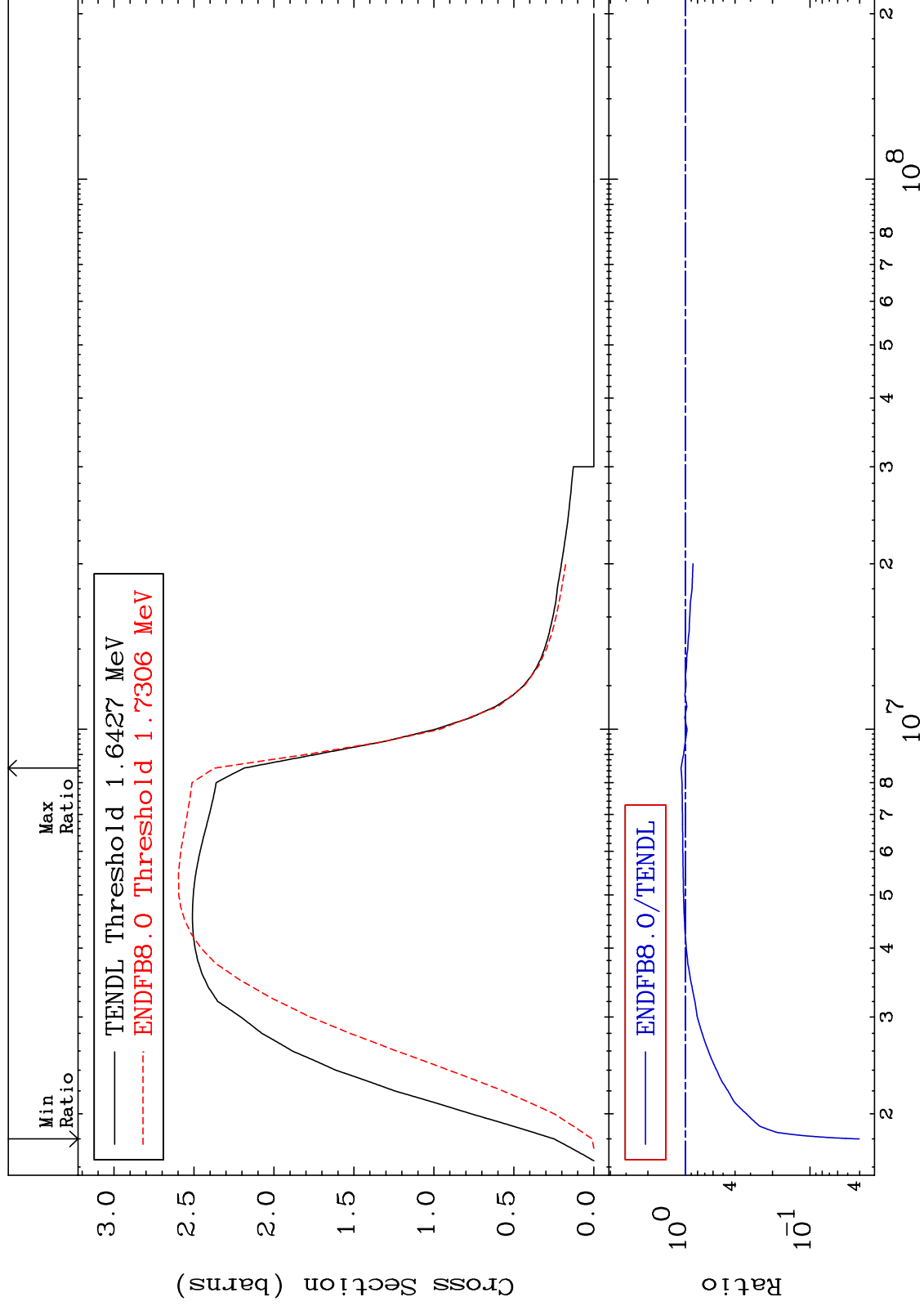
70-Yb-172
-91.47 To 145.1 %



MAT 7037

(n,n') Continuum
Cross Section

70-Yb-172
-95.97 To 8.433 %

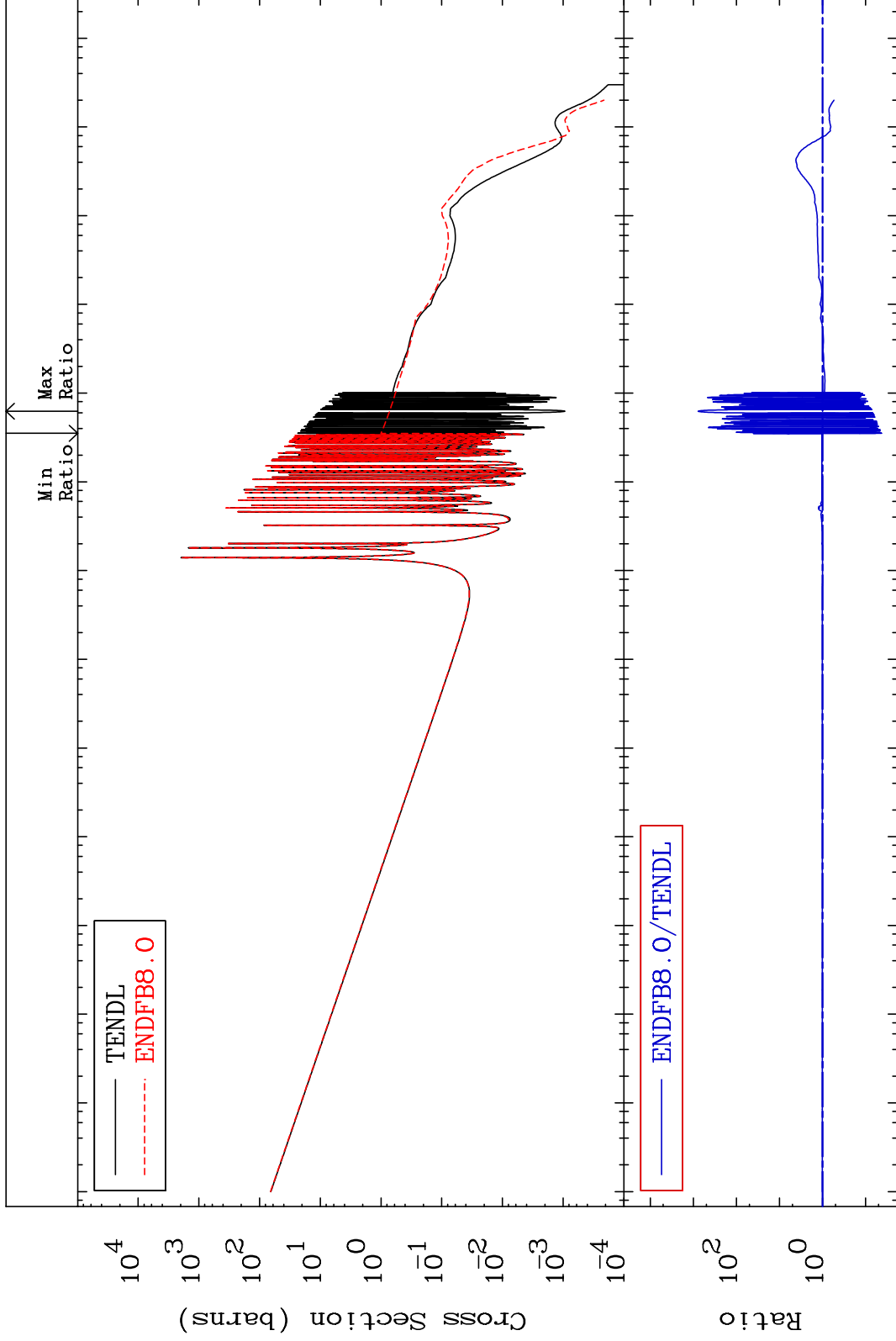


MAT 7037

(n, γ)

70-Yb-172
-95.73 To 9999. %

Cross Section



40

Incident Energy (eV)

70-Yb-172

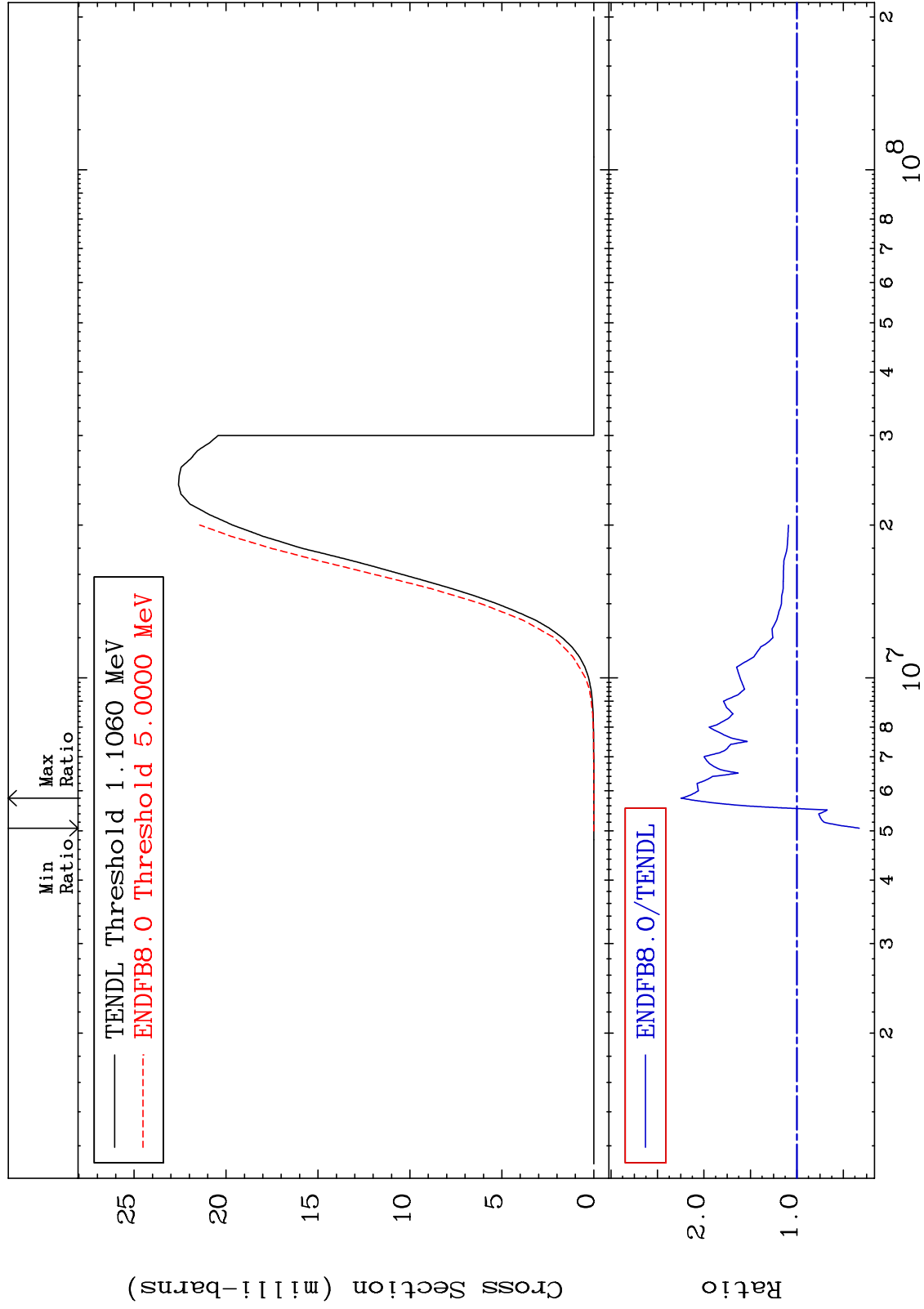
MAT 7037

(n, p)

70-Yb-172

Cross Section

-67.18 To 124.7 %



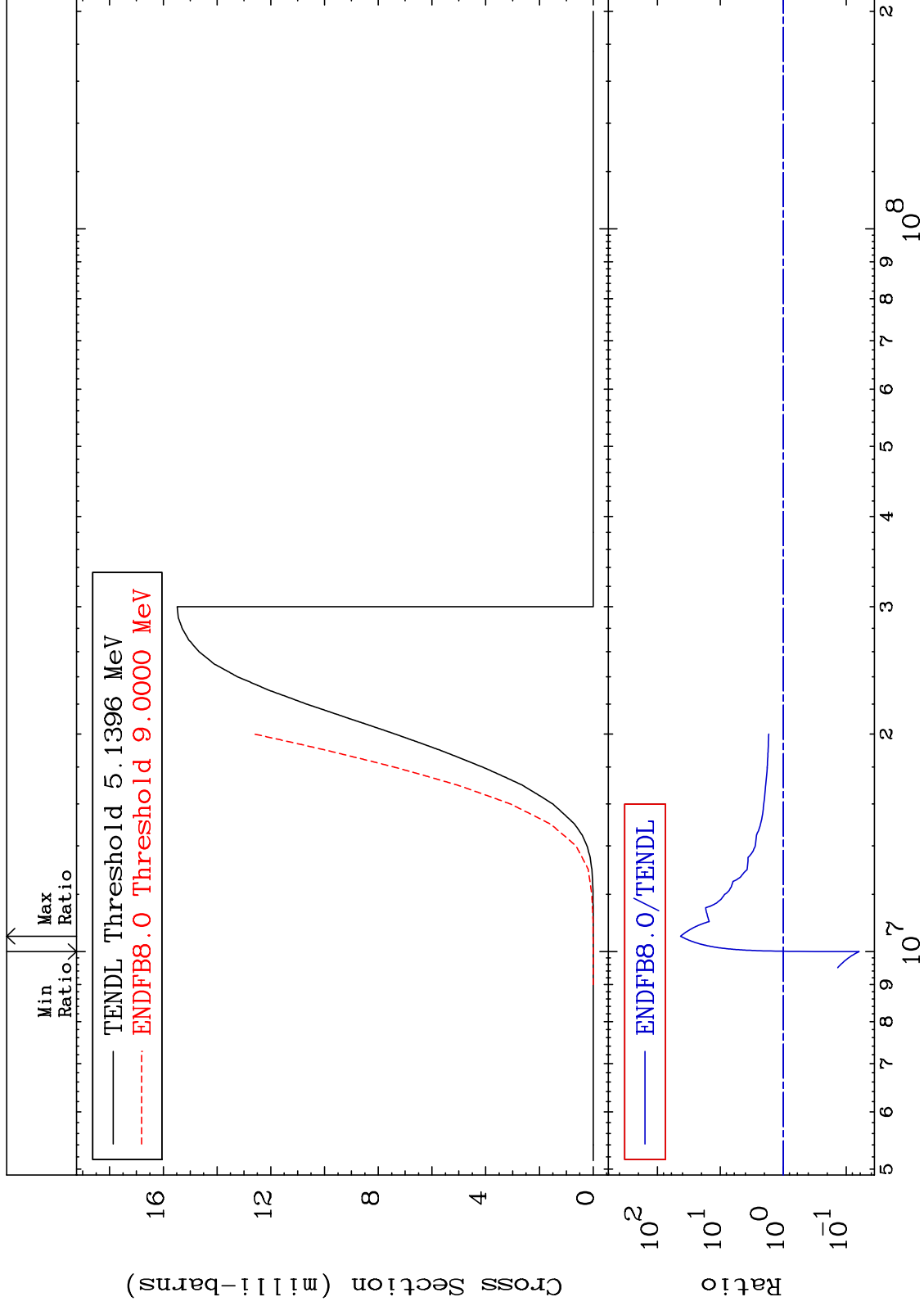
MAT 7037

(n, d)

70-Yb-172

Cross Section

-93.77 To 4180. %



42

Incident Energy (eV)

70-Yb-172

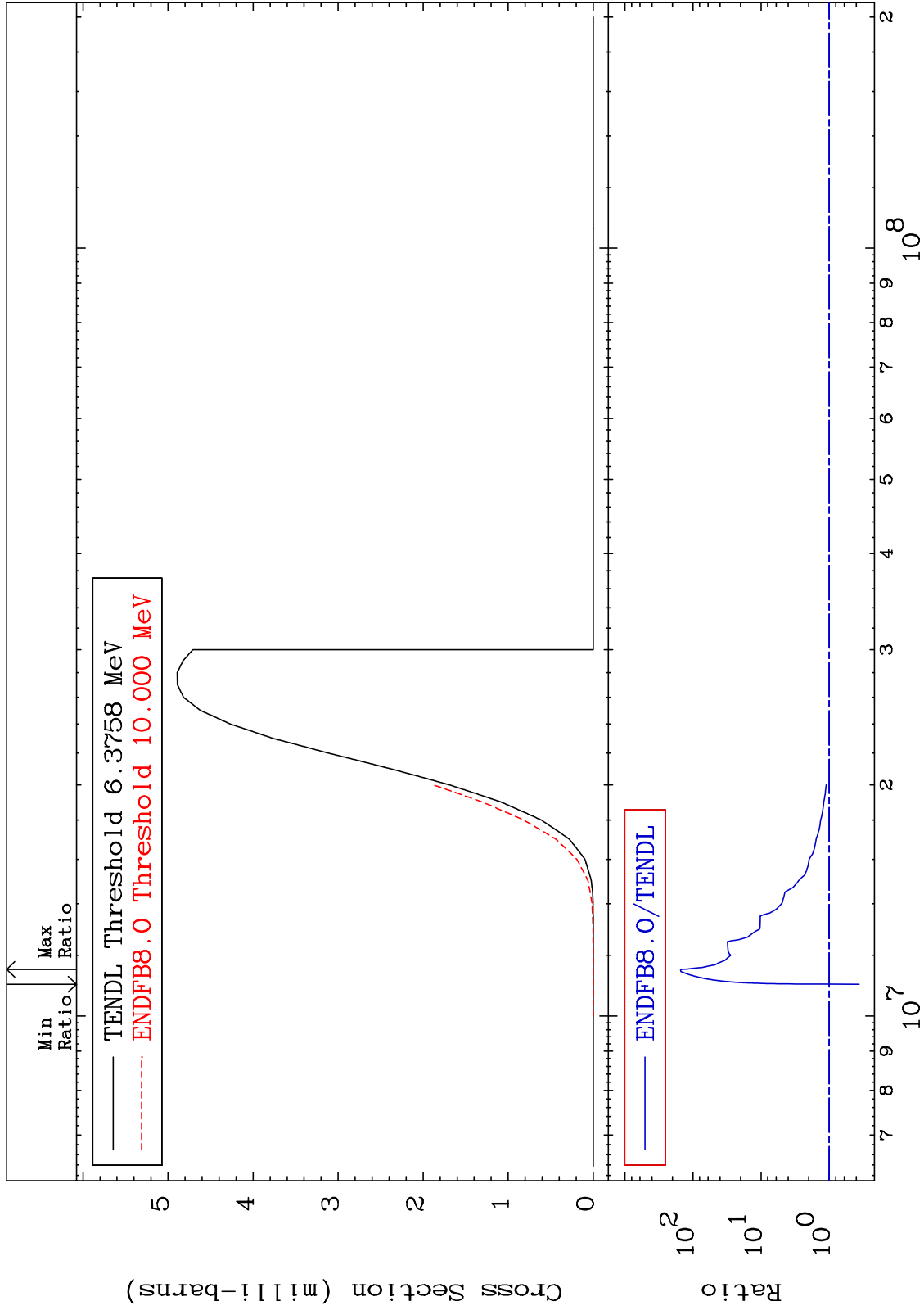
MAT 7037

(n, t)

70-Yb-172

Cross Section

-63.62 To 9999. %



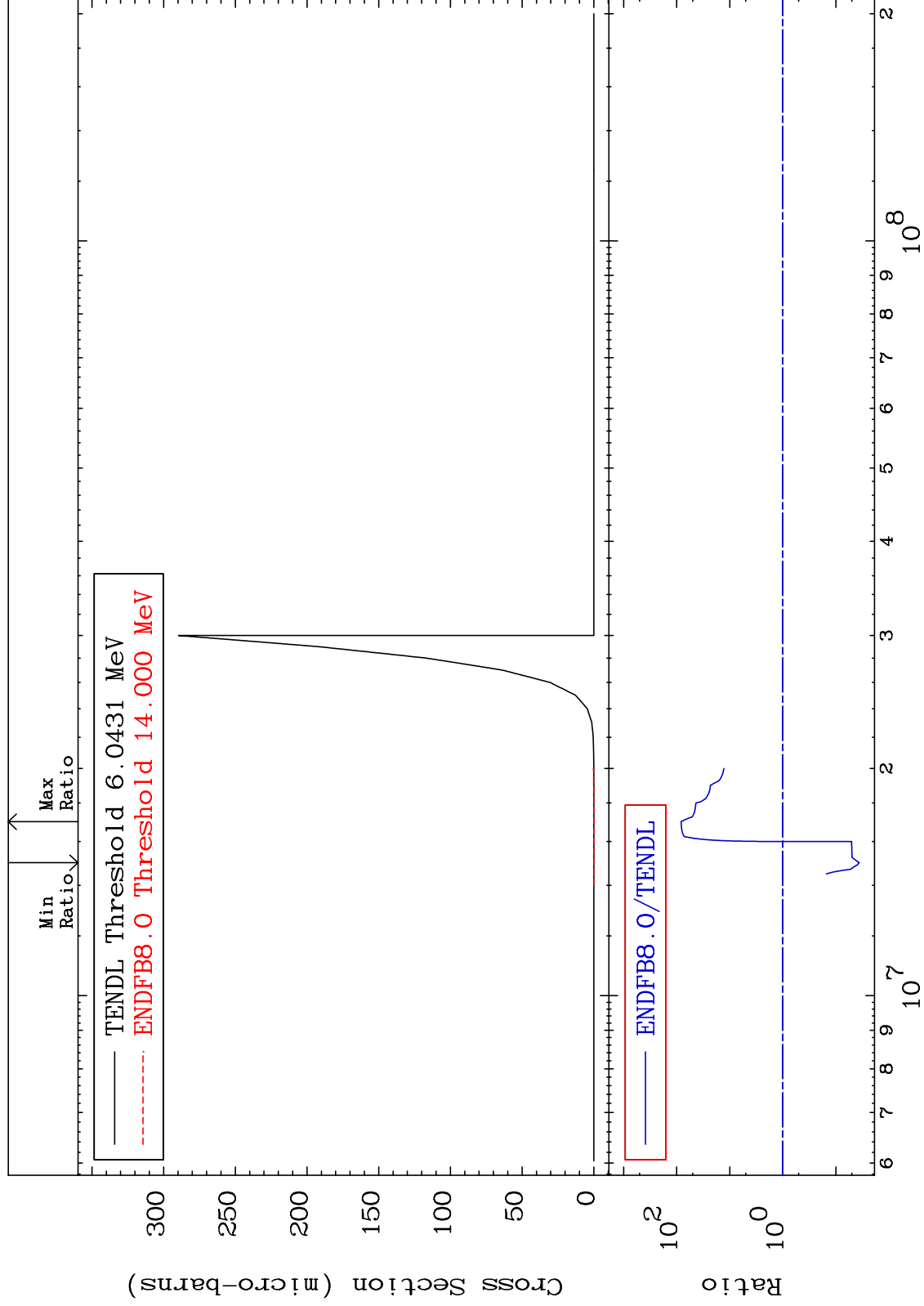
MAT 7037

(n, He-3)

70-Yb-172

Cross Section

-96.39 To 8183. %



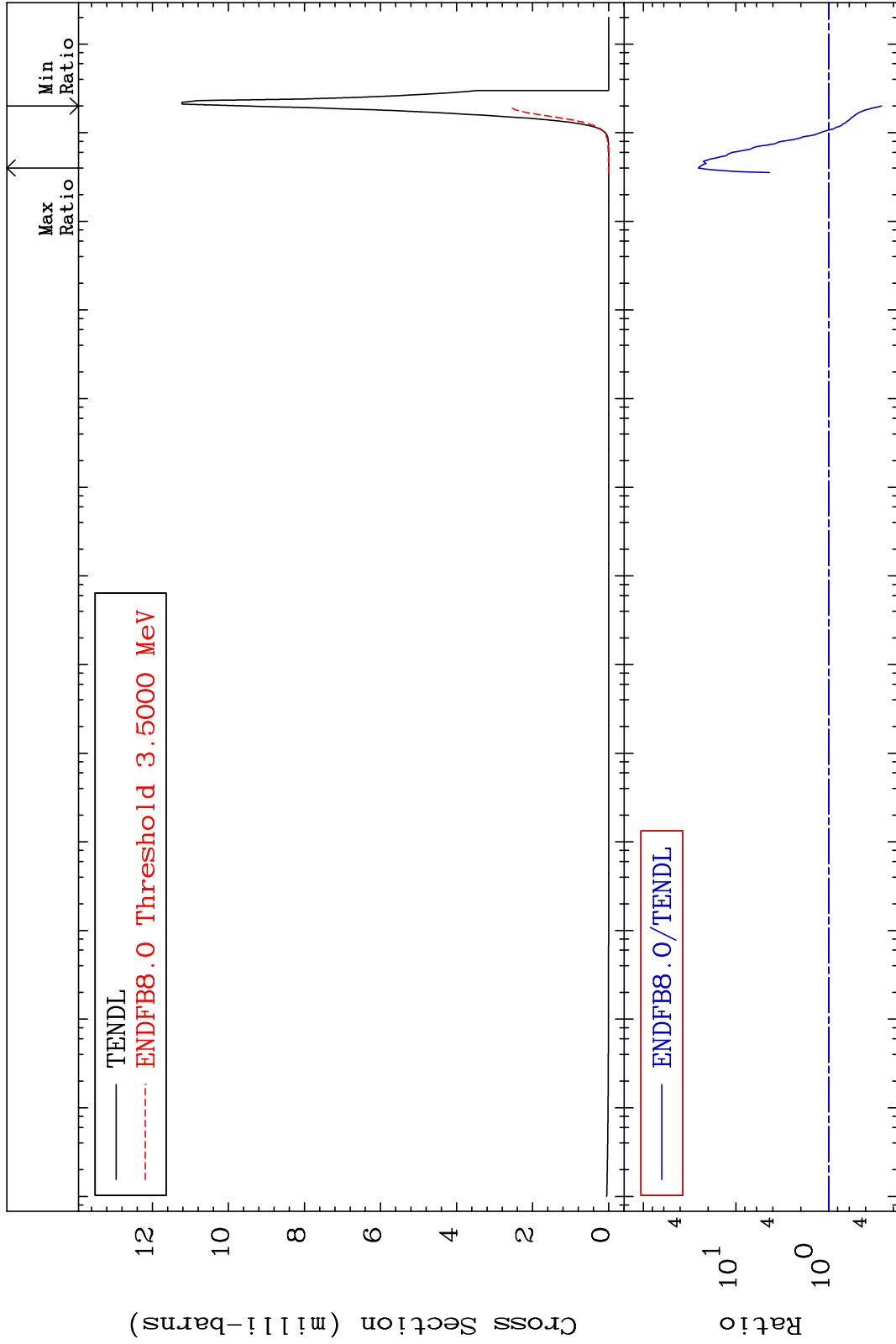
MAT 7037

(n, α)

Cross Section

70-Yb-172

-73.13 To 2447. %



— TENDL
- - - ENDFB8.0 Threshold 3.5000 MeV

— ENDFB8.0/TENDL

12
10
8
6
4
2
0
10¹
10⁰
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸
Incident Energy (eV)

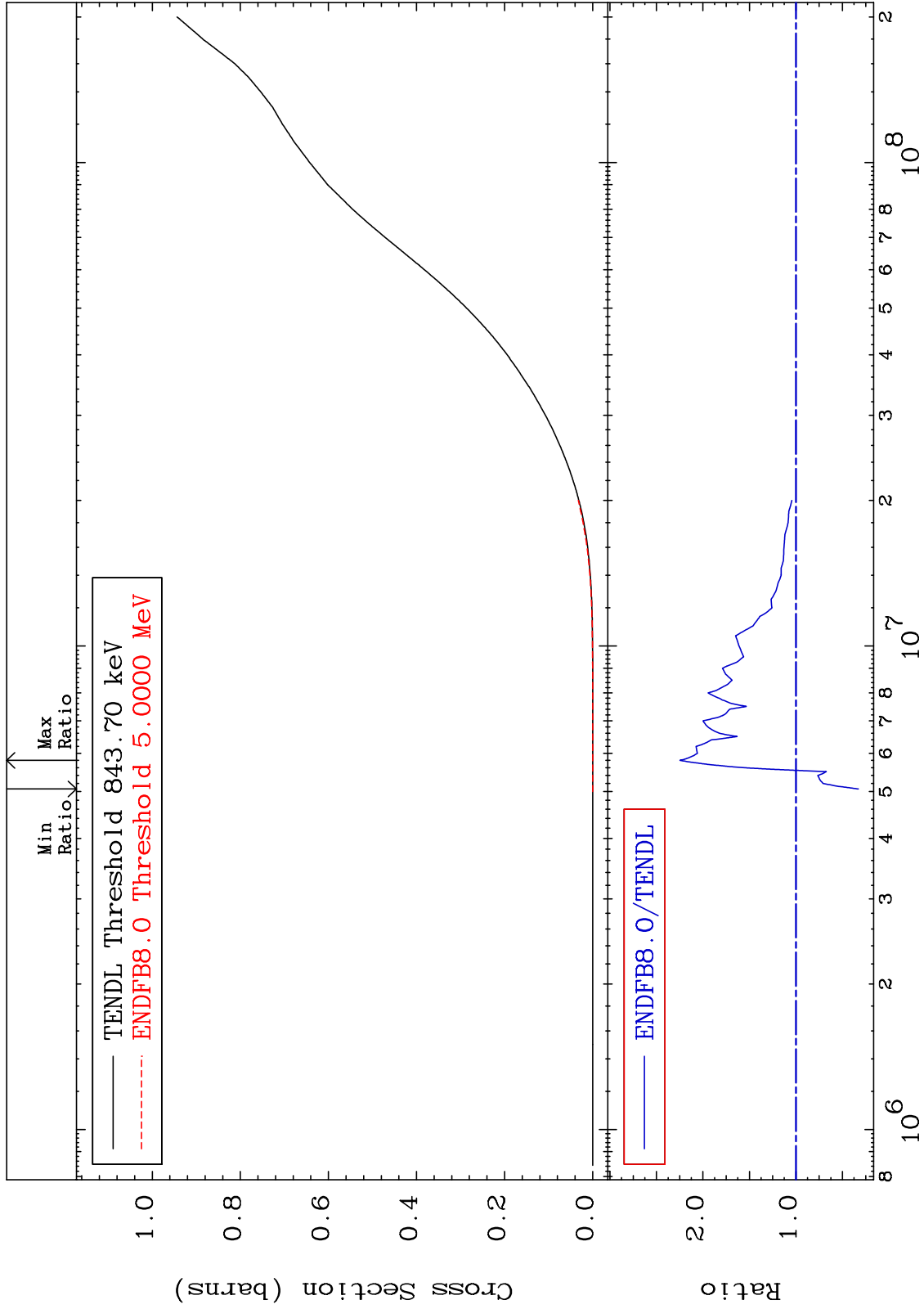
70-Yb-172

45

MAT 7037

Hydrogen Production
Cross Section

70-Yb-172
-67.18 To 124.7 %



46

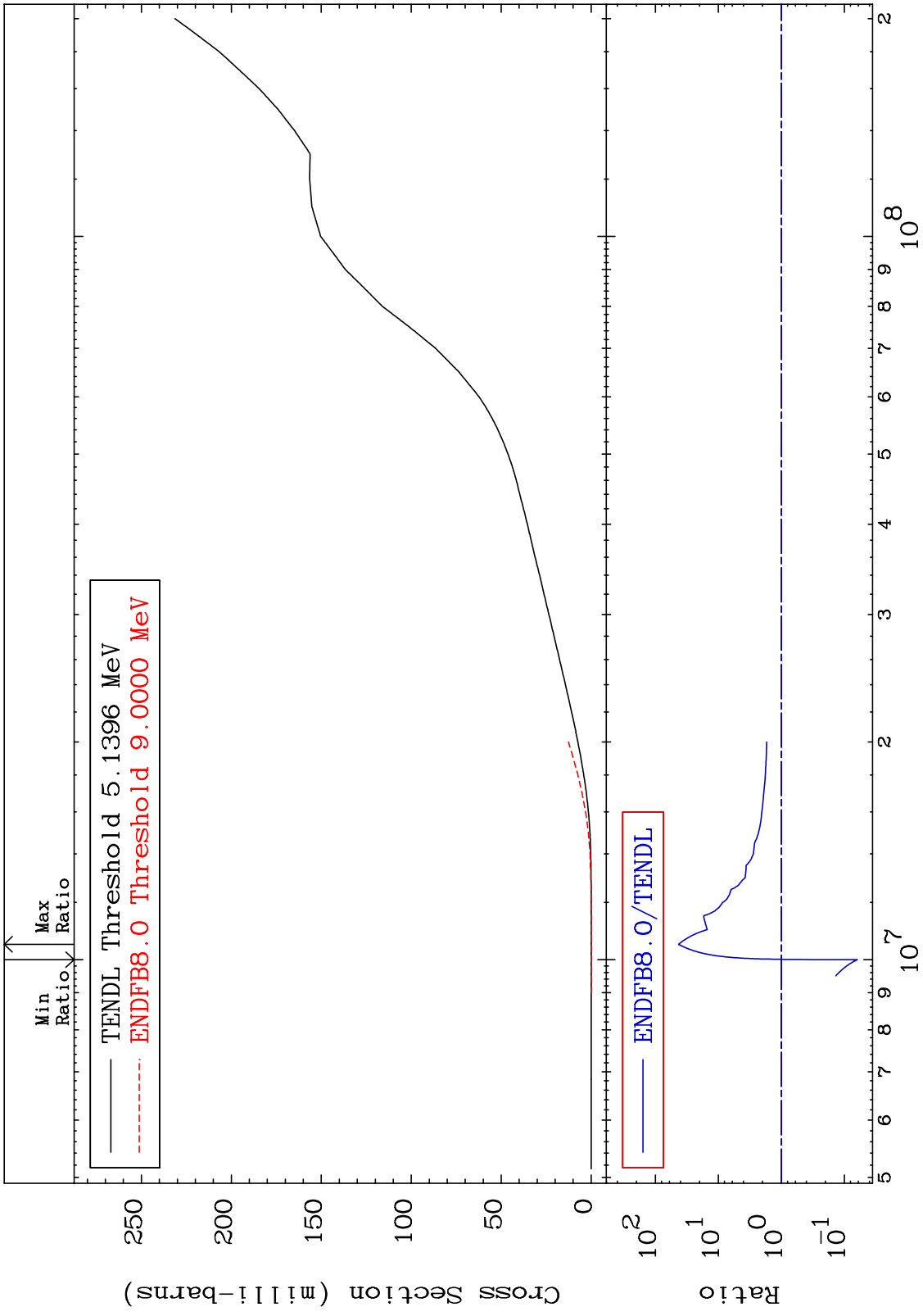
Incident Energy (eV)

70-Yb-172

MAT 7037

Deuterium Production
Cross Section

70-Yb-172
-93.77 To 4180. %



47

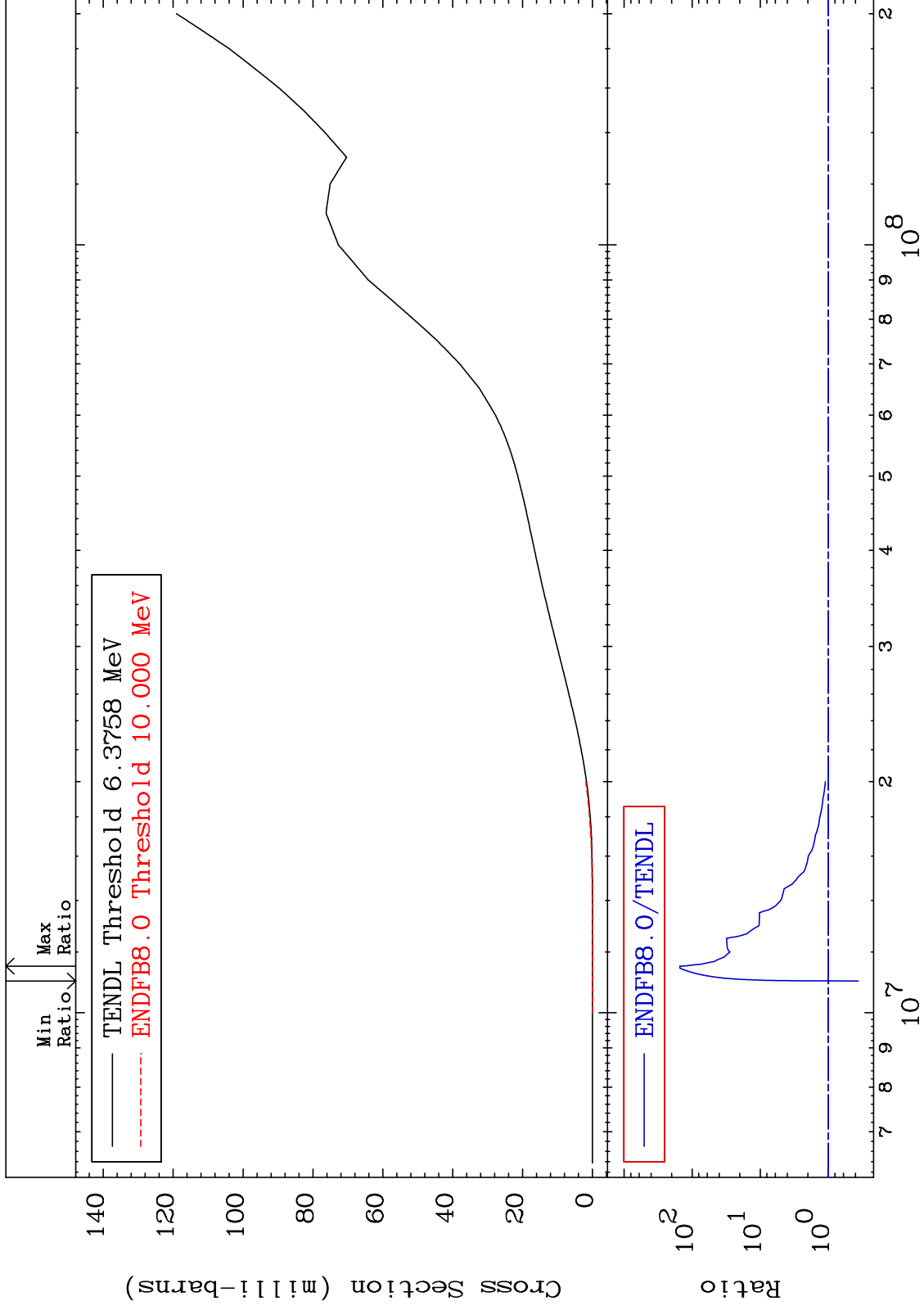
Incident Energy (eV)

70-Yb-172

MAT 7037

Tritium Production
Cross Section

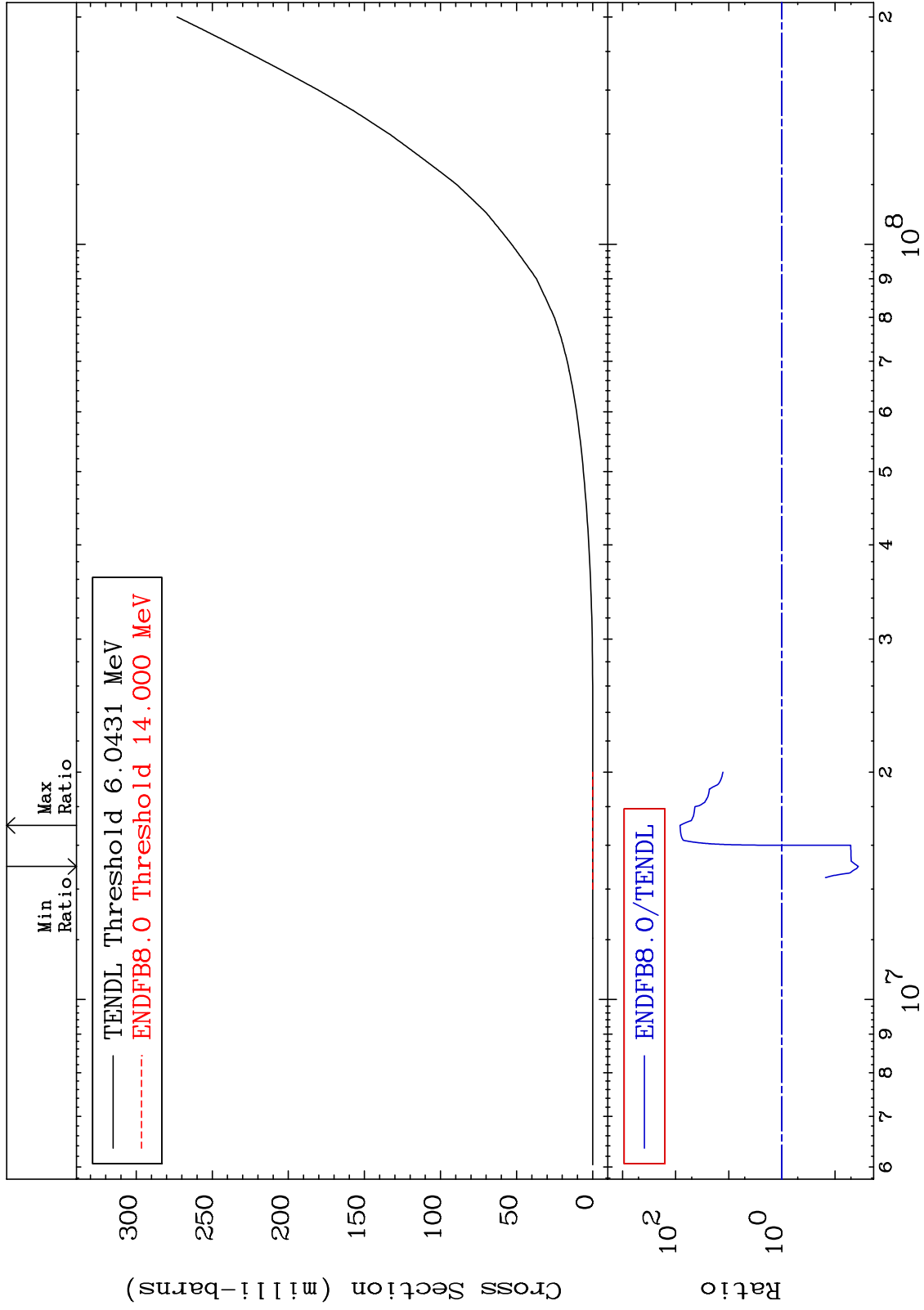
⁷⁰Yb-172
-63.62 To 9999. %



MAT 7037

He-3 Production
Cross Section

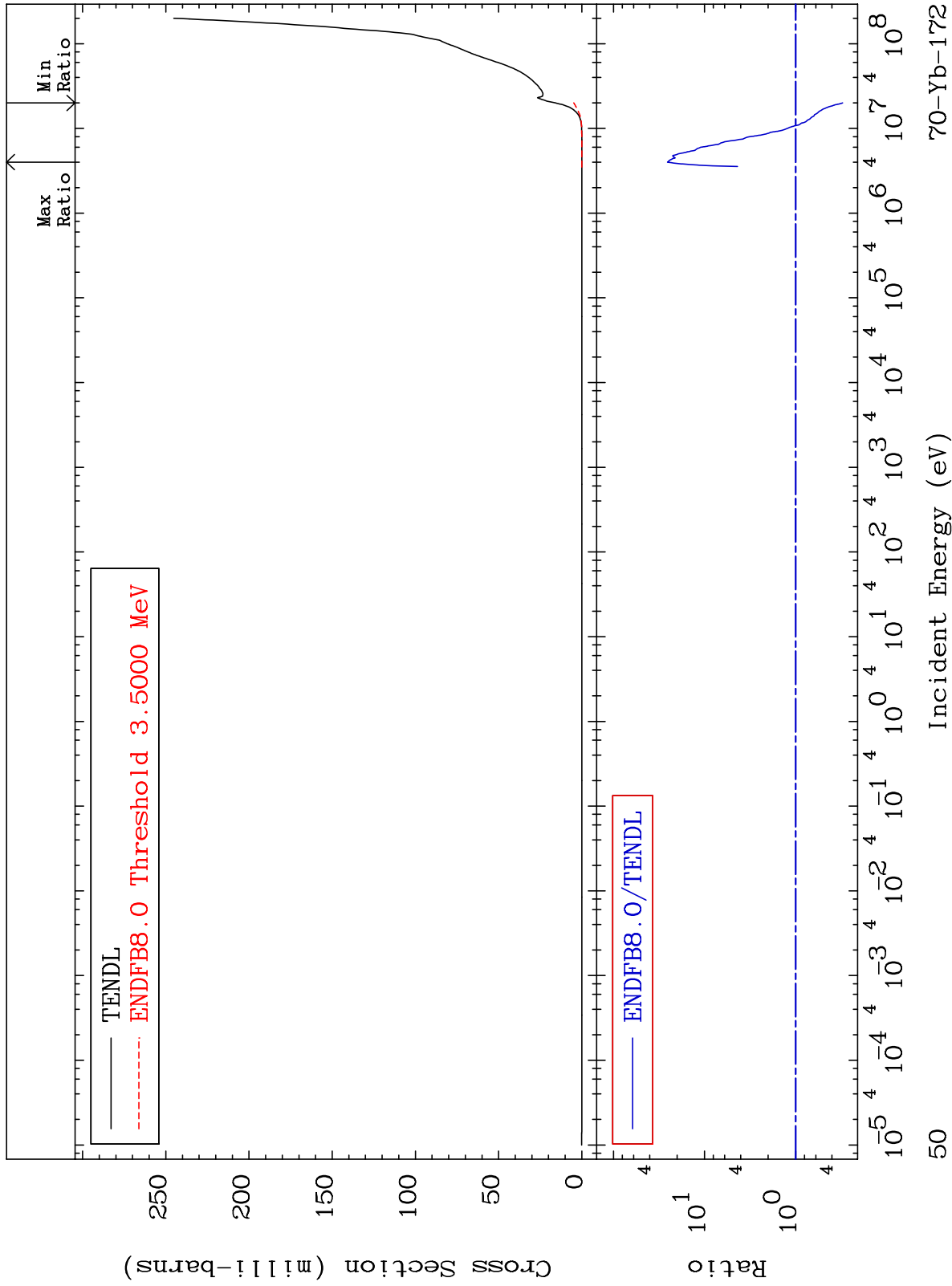
70-Yb-172
-96.39 To 8183. %



MAT 7037

He-4 Production
Cross Section

70-Yb-172
-69.55 To 2447. %



50

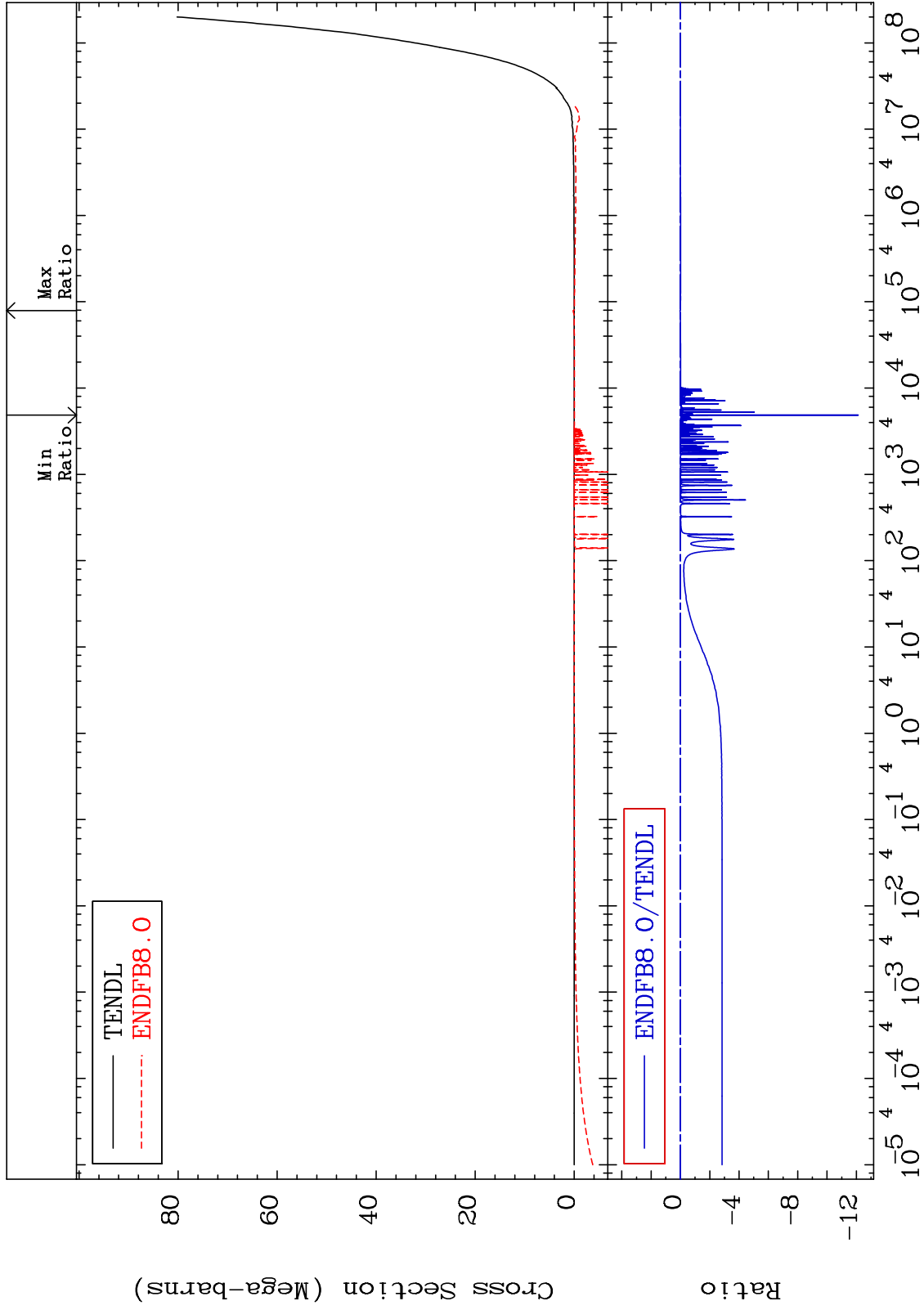
Incident Energy (eV)

70-Yb-172

MAT 7037

Kerma total (eV-barns)
Cross Section

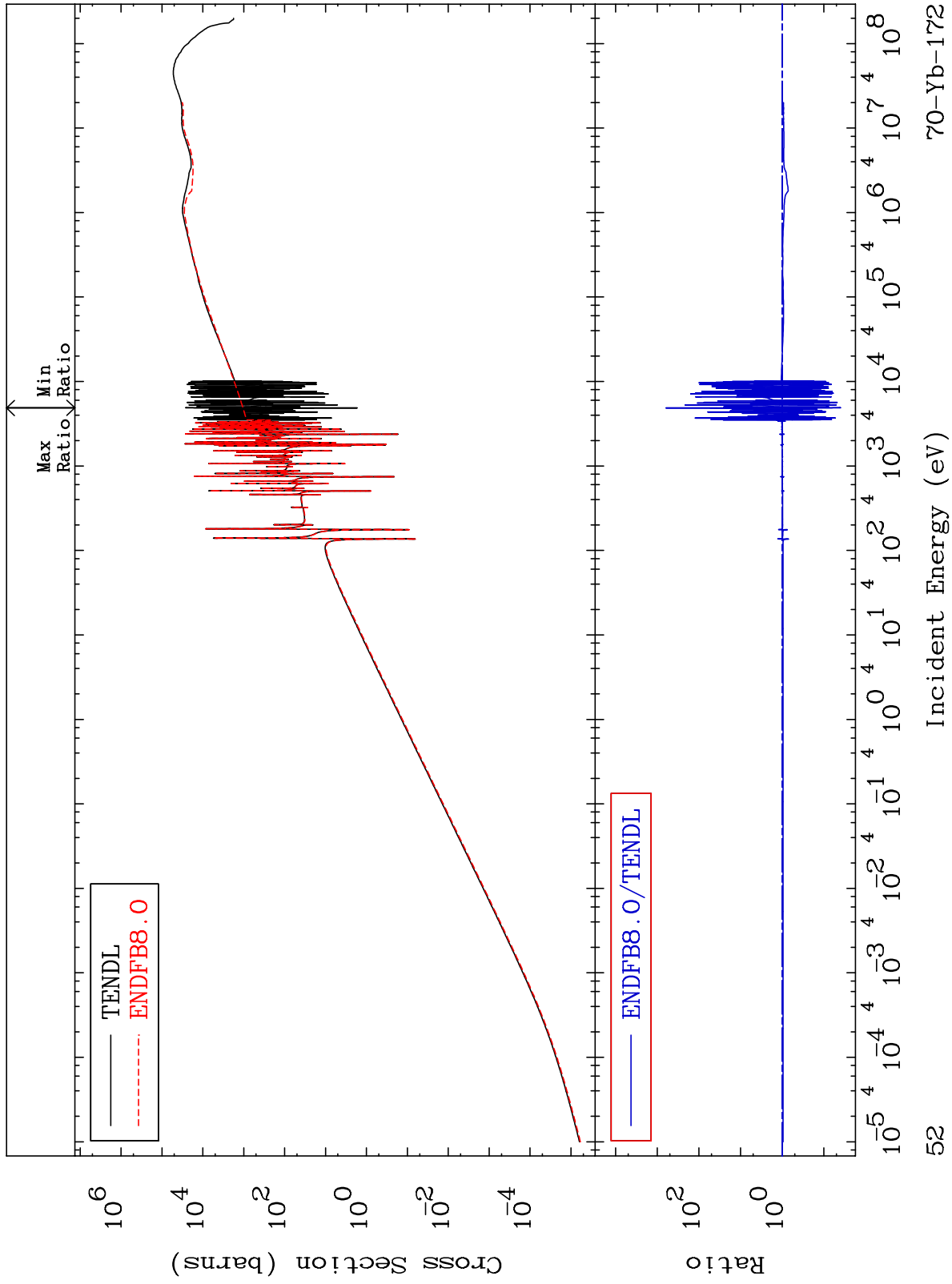
70-Yb-172
-9999. To 2777. %



MAT 7037

Kerma elastic
Cross Section

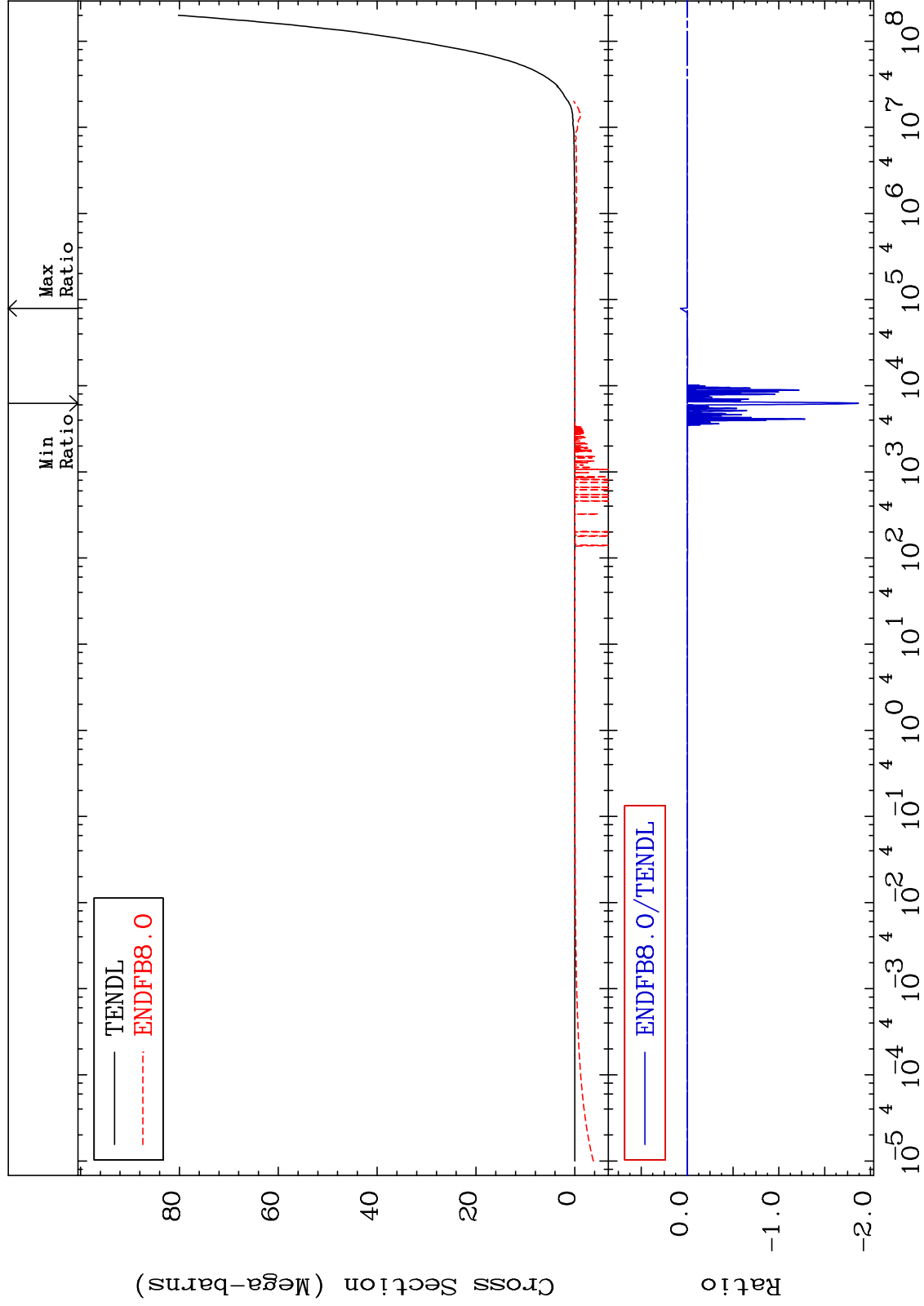
70-Yb-172
-96.03 To 9999. %



MAT 7037

Kerma non-elastic (all but mt2)
Cross Section

70-Yb-172
-9999. To 9999. %



53

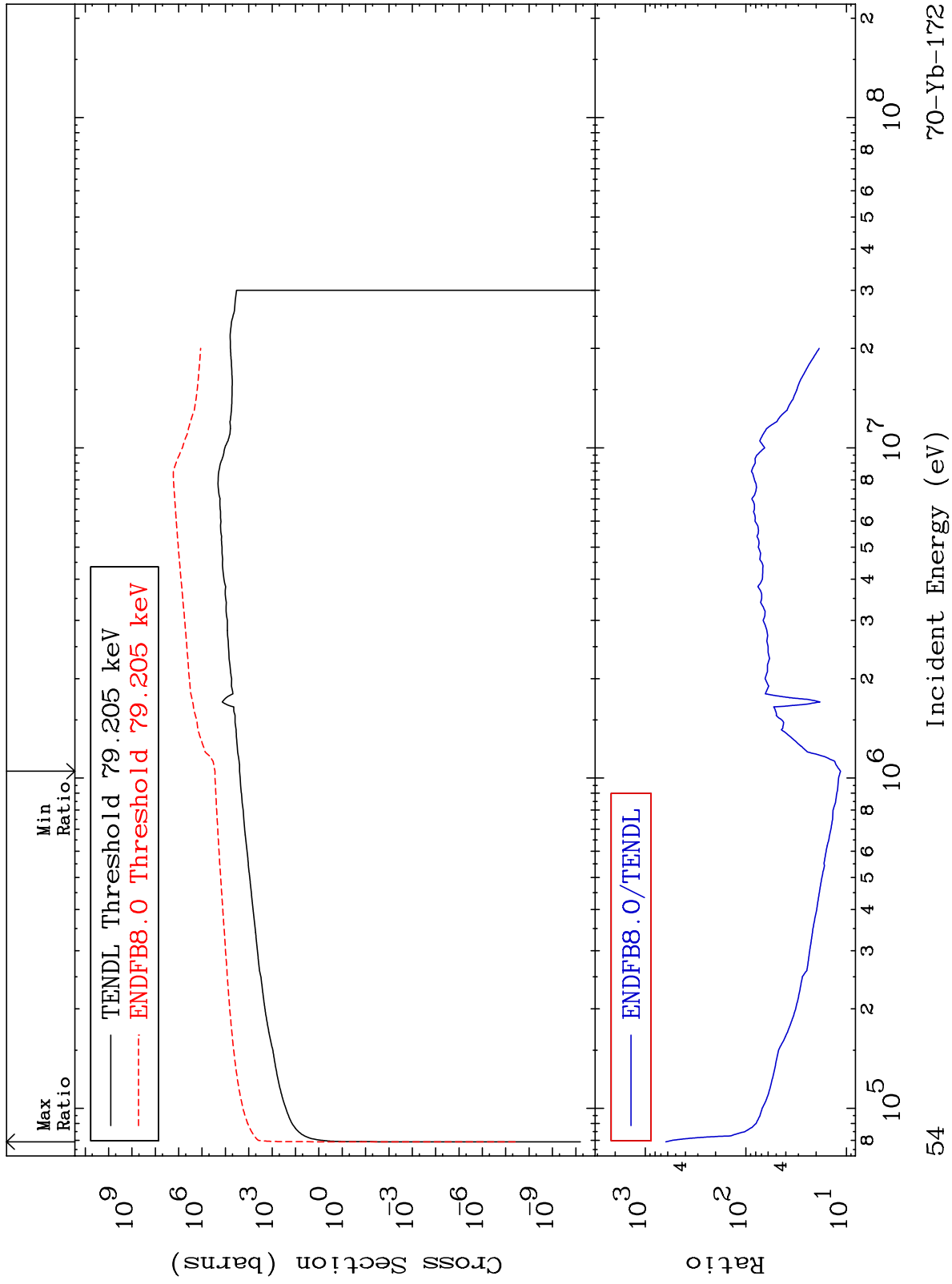
Incident Energy (eV)

70-Yb-172

MAT 7037

Kerma inelastic (mt51-91)
Cross Section

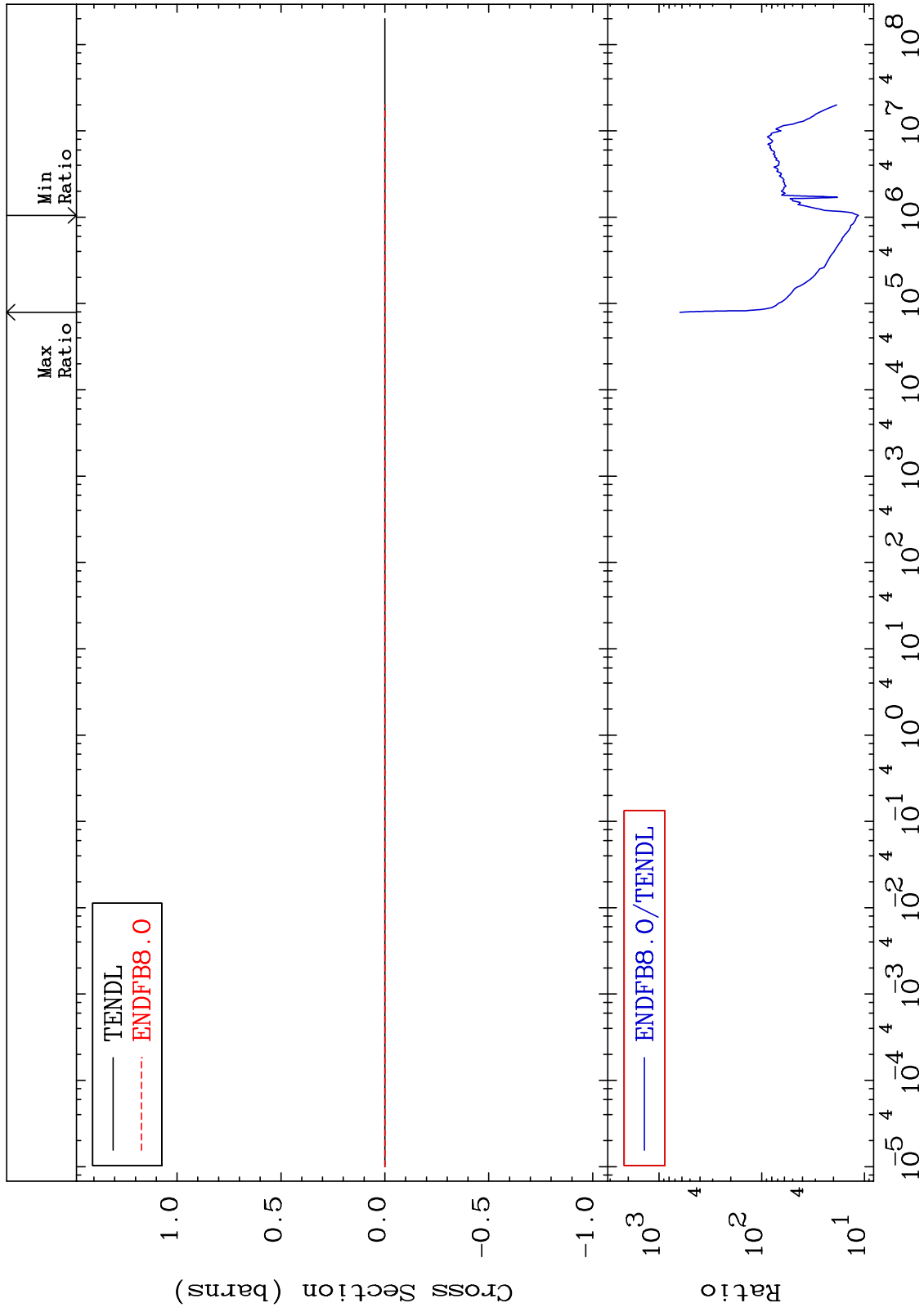
70-Yb-172
1044. To 9999. %



MAT 7037

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

70-Yb-172
1044. To 9999. %



55

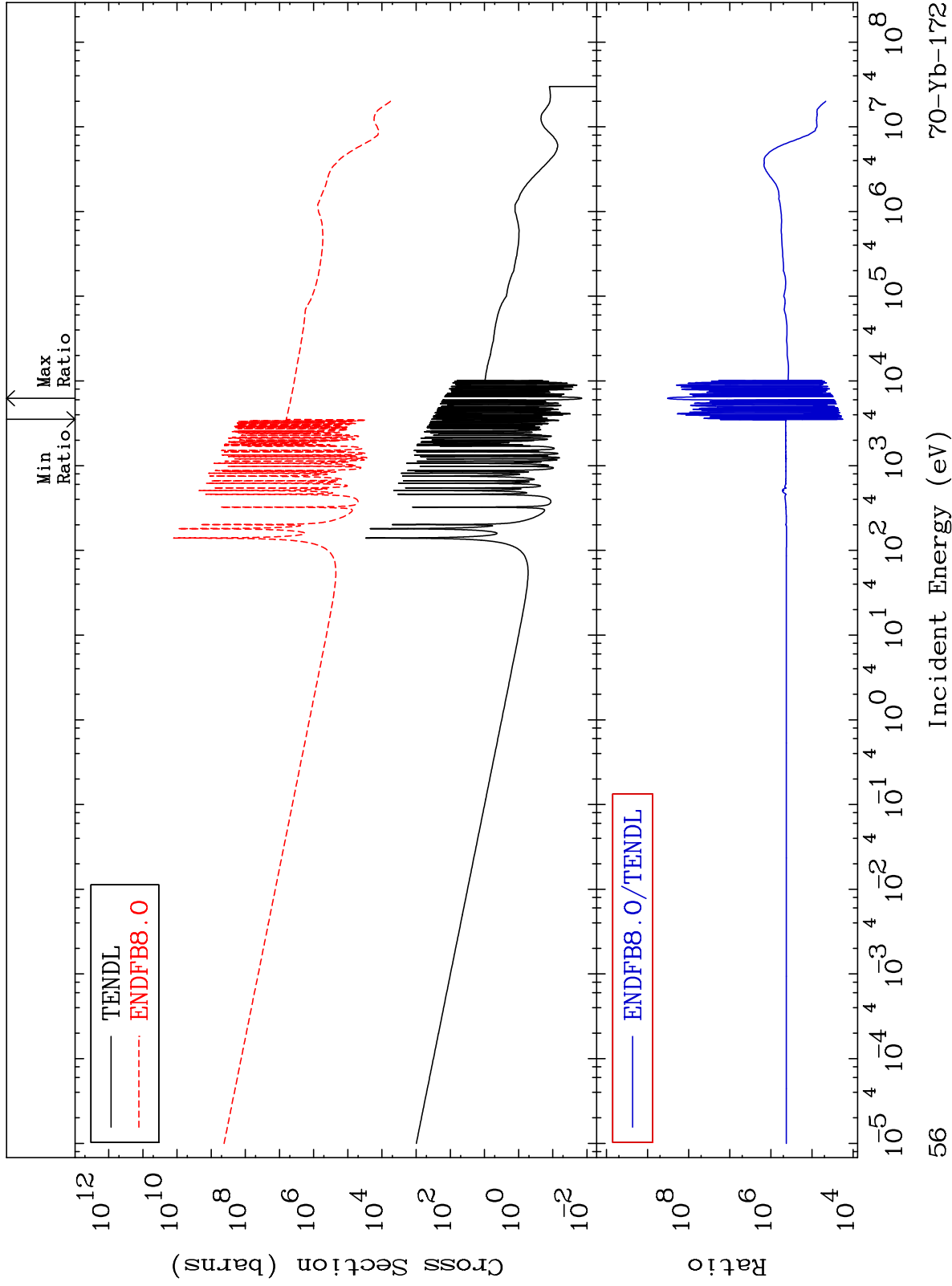
Incident Energy (eV)

70-Yb-172

MAT 7037

Kerma capture (mt102)
Cross Section

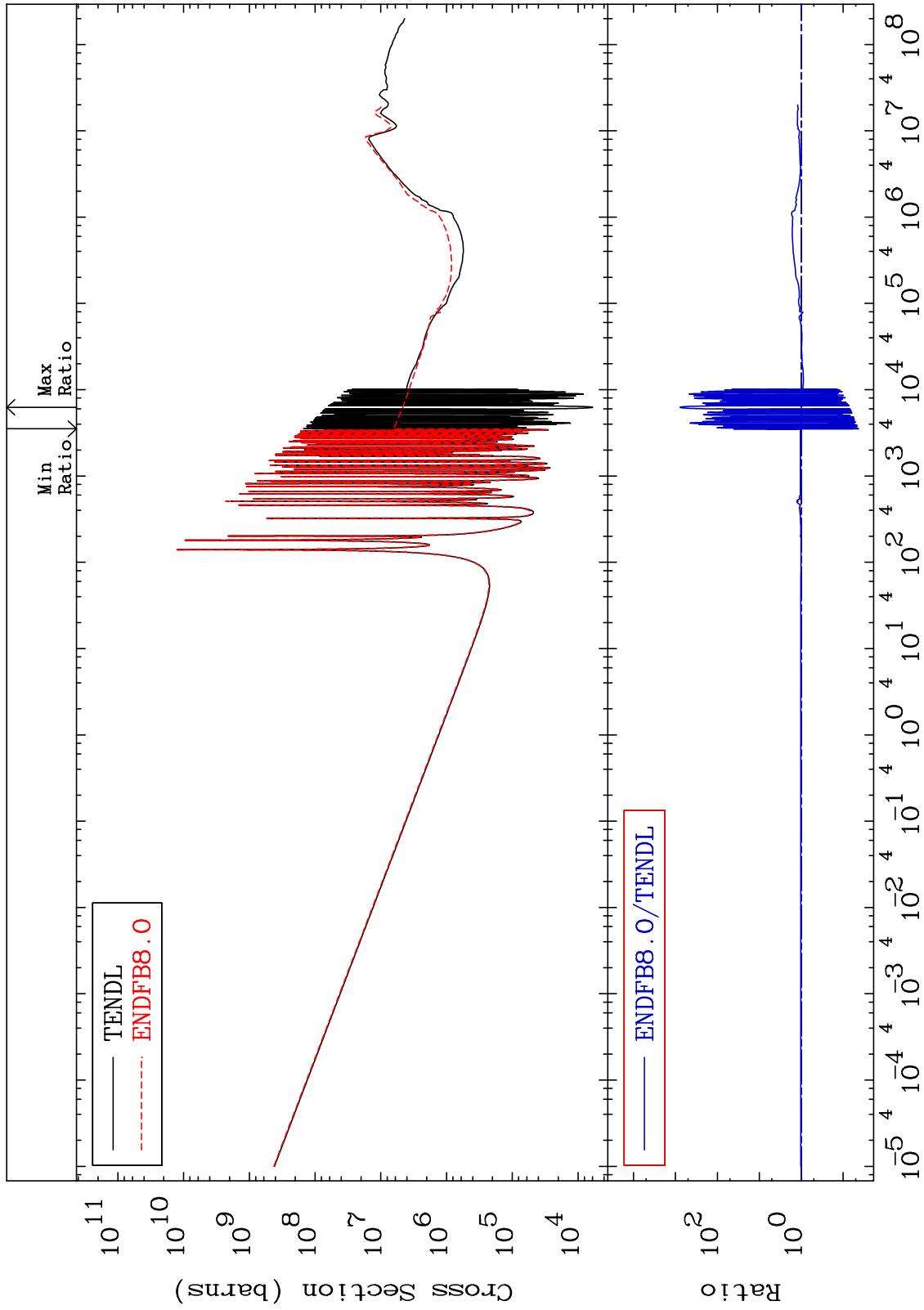
70-Yb-172
9999. To 9999. %



MAT 7037

Total photon (eV-barns)
Cross Section

70-Yb-172
-95.69 To 9999. %



57

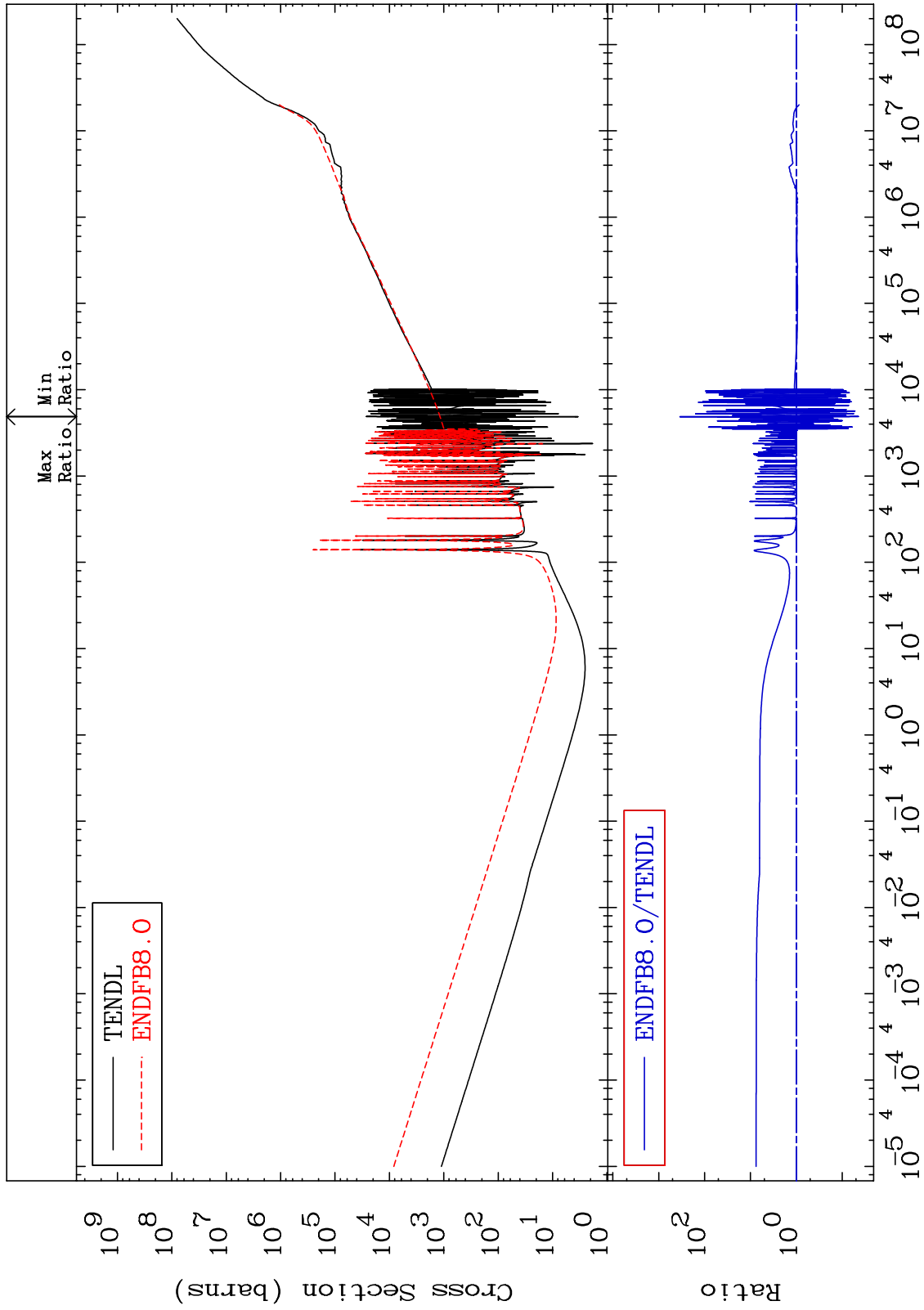
Incident Energy (eV)

70-Yb-172

MAT 7037

Total kinematic kerma (high limit)
Cross Section

70-Yb-172
-95.57 To 9999. %



58

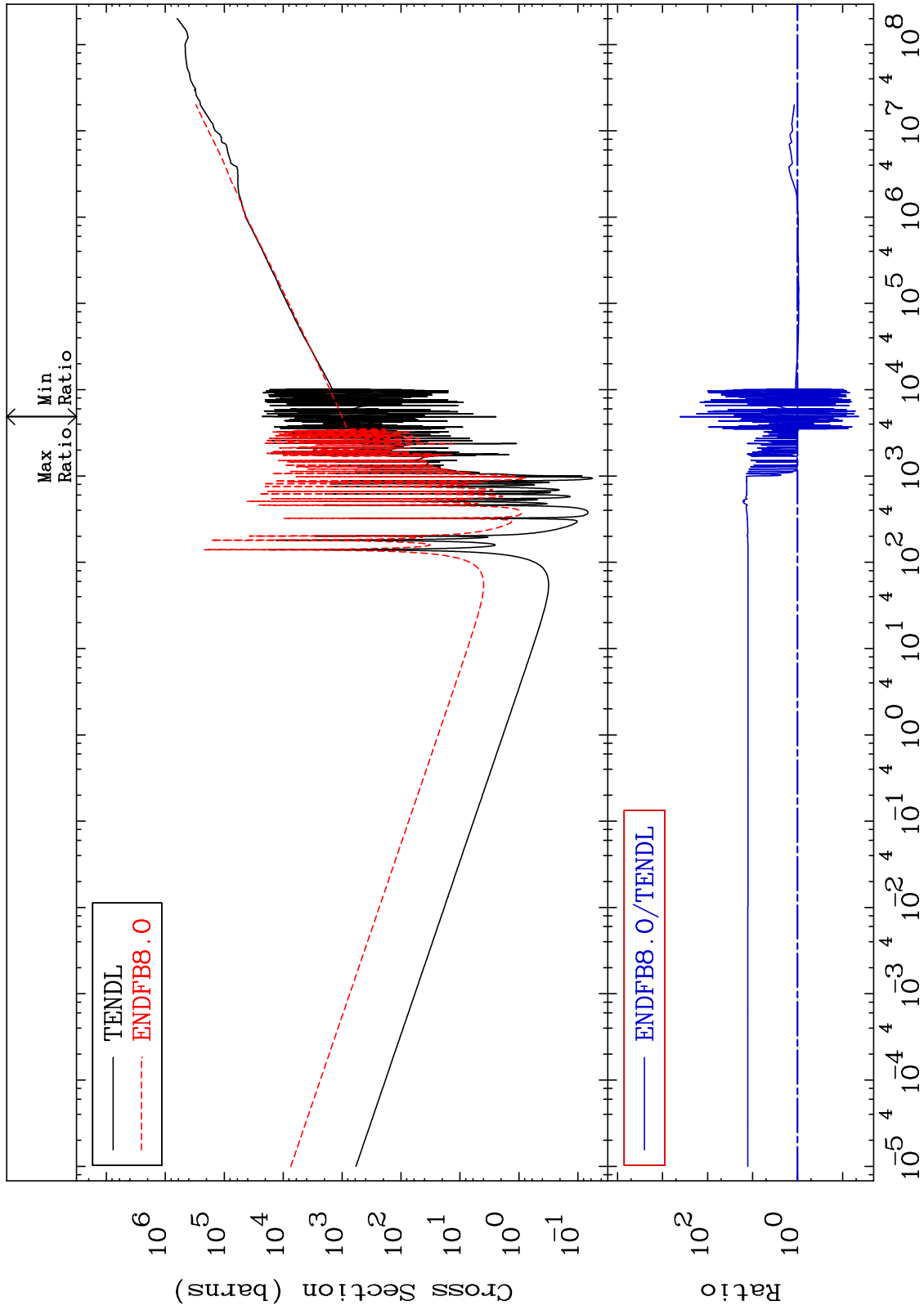
Incident Energy (eV)

70-Yb-172

MAT 7037

Dpa total (eV-barns)
Cross Section

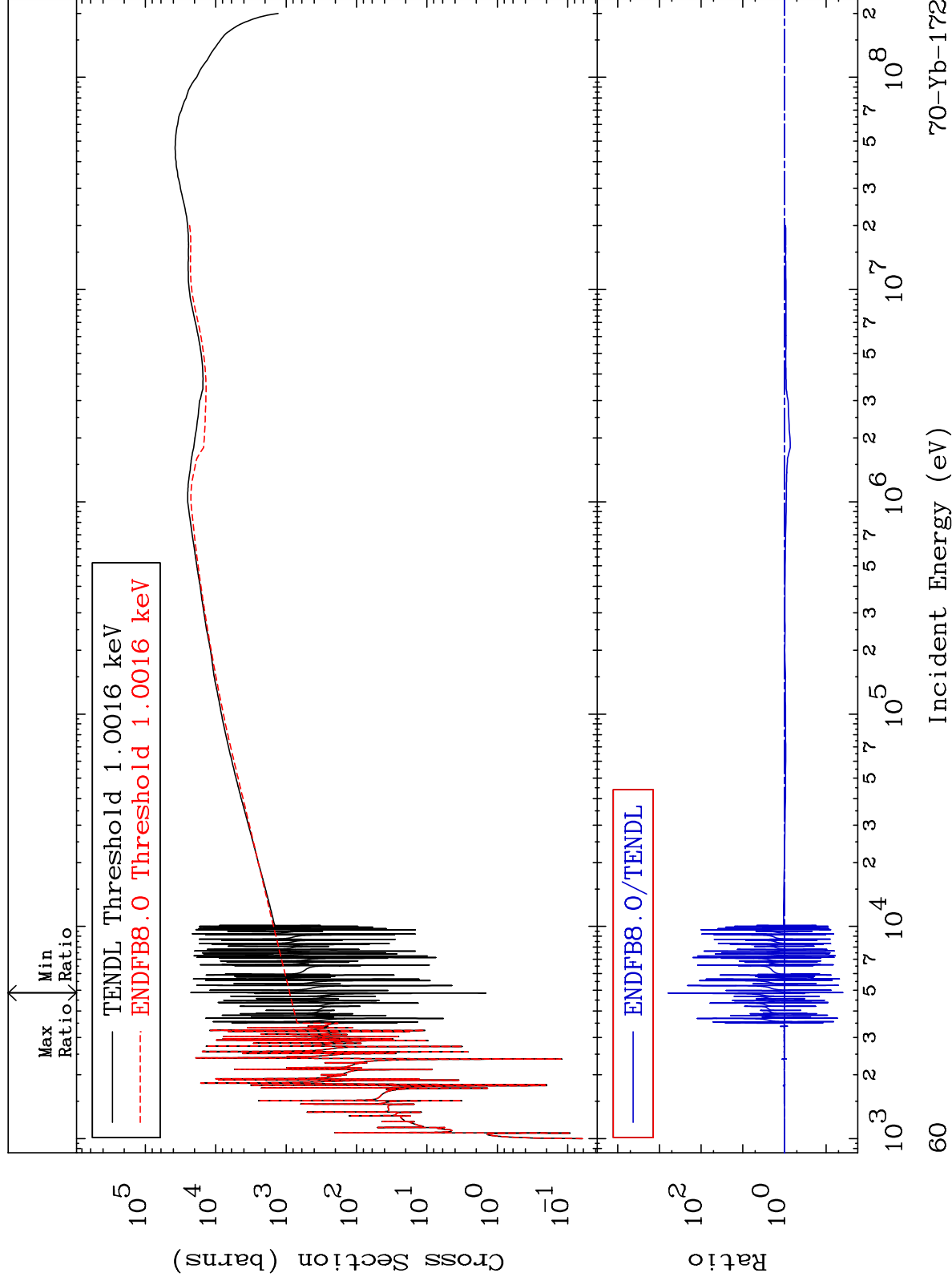
70-Yb-172
-95.56 To 9999. %



MAT 7037

Dpa elastic (mt2)
Cross Section

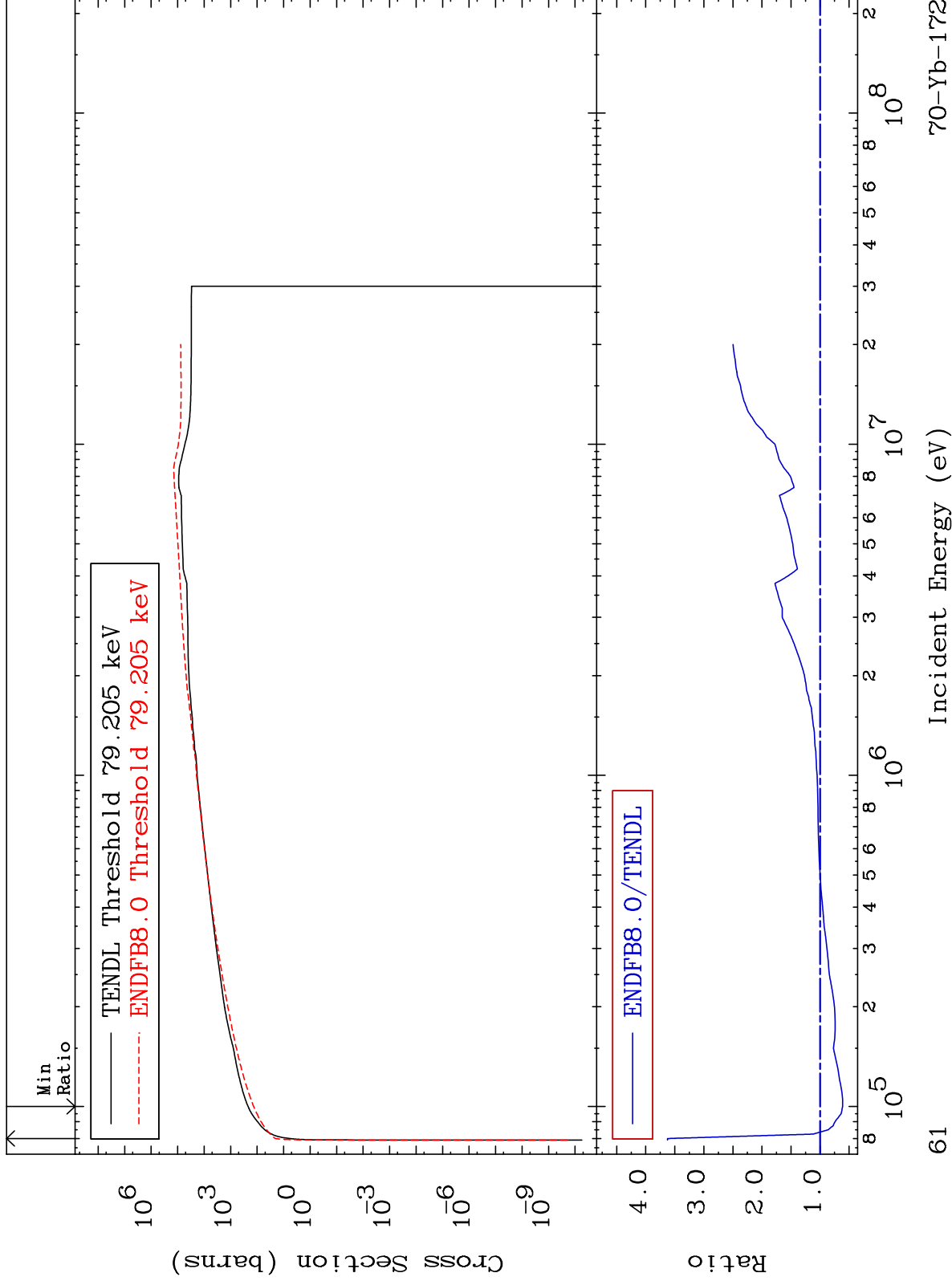
70-Yb-172
-96.05 To 9999. %



MAT 7037

Dpa inelastic (mt51-91)
Cross Section

70-Yb-172
-38.96 To 262.5 %



MAT 7037

Dpa disappearance (mt102 -120)
Cross Section

70-Yb-172
-37.07 To 9999. %

