

Program Complot
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

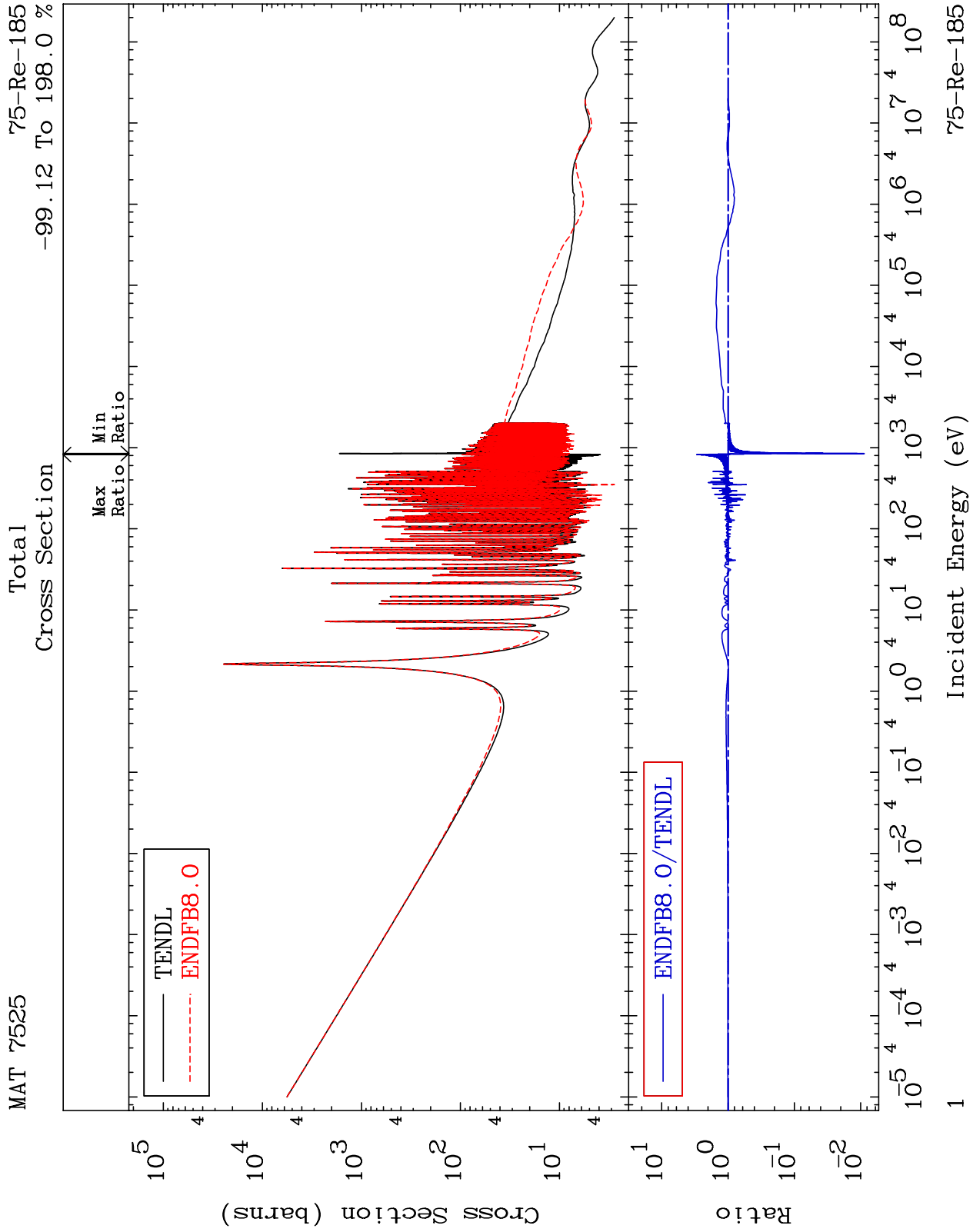
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

U.S.A.

Tele: 925-443-1911

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

Press Mouse Button to Start



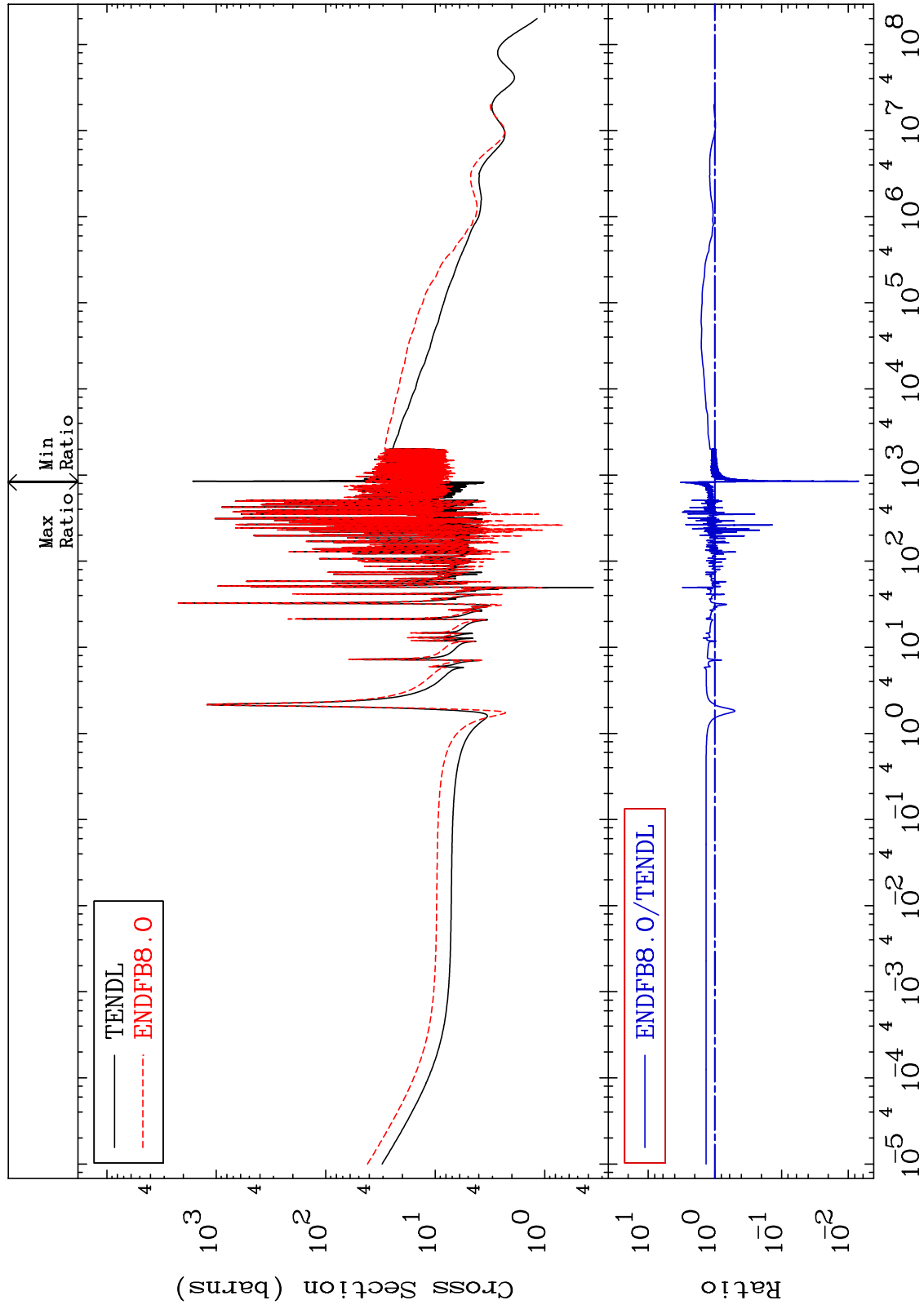
MAT 7525

Elastic

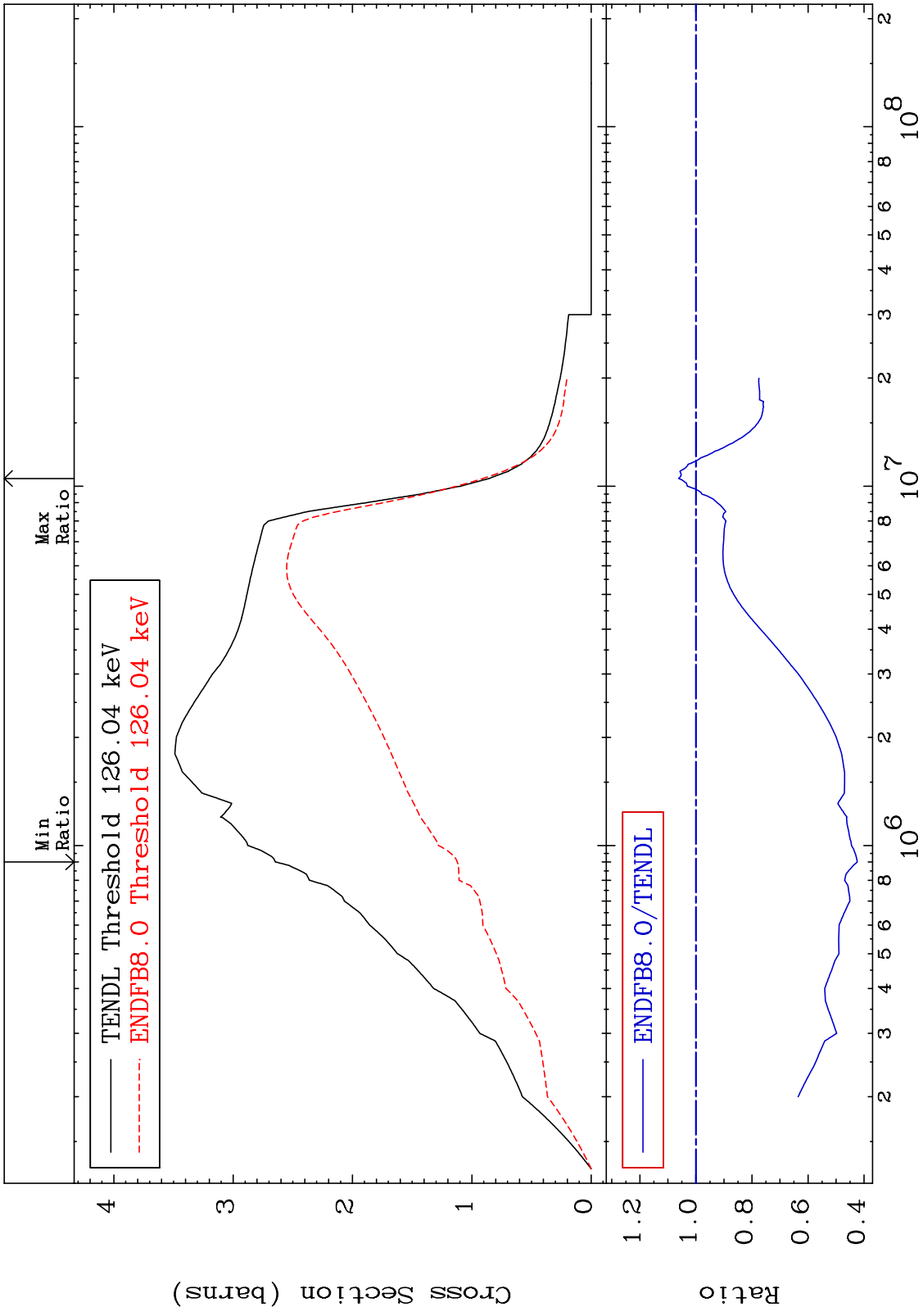
Cross Section

75-Re-185

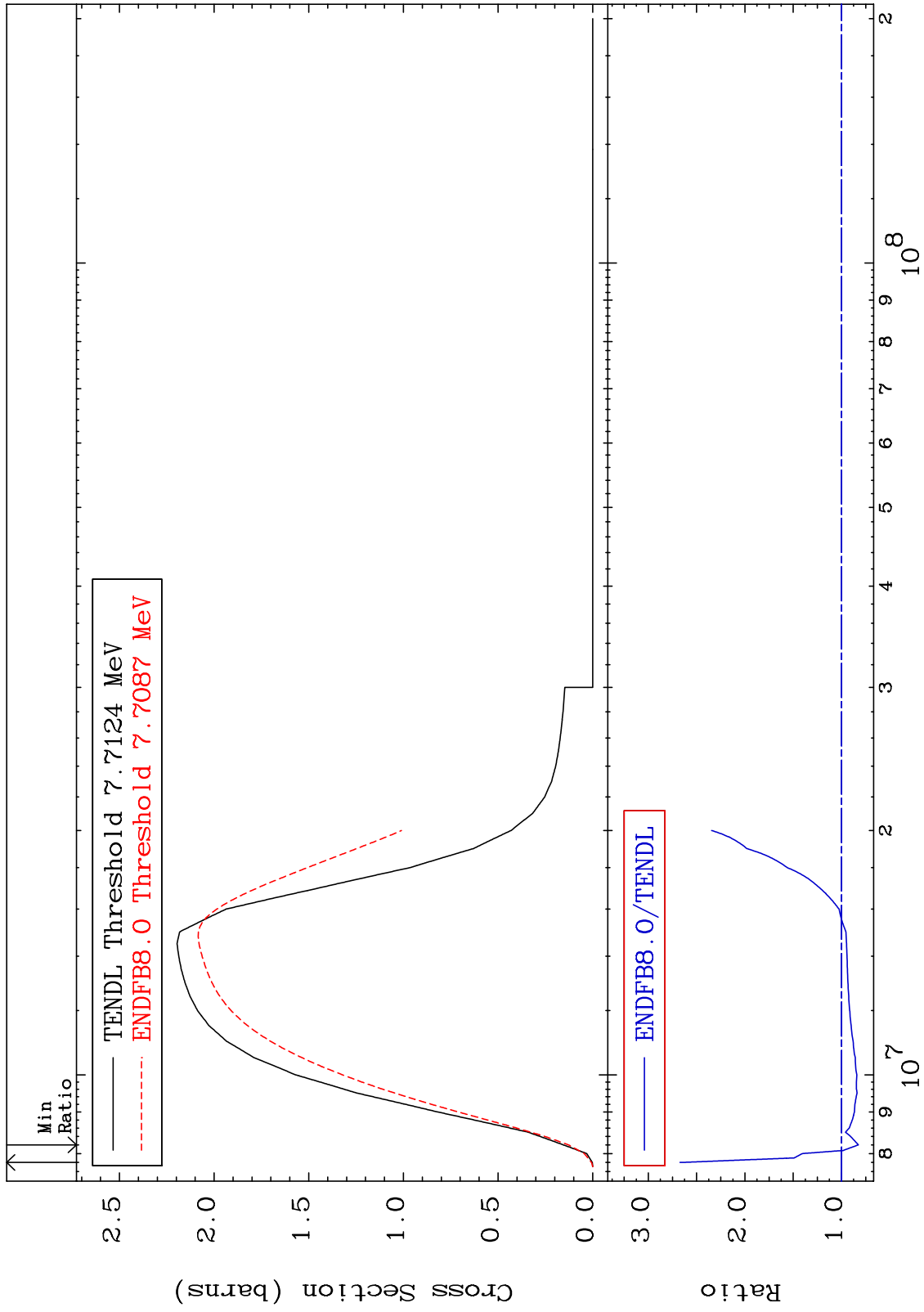
-99.30 To 228.5 %



MAT 7525 75-Re-185
-57.58 To 6.166 %
Inelastic Cross Section



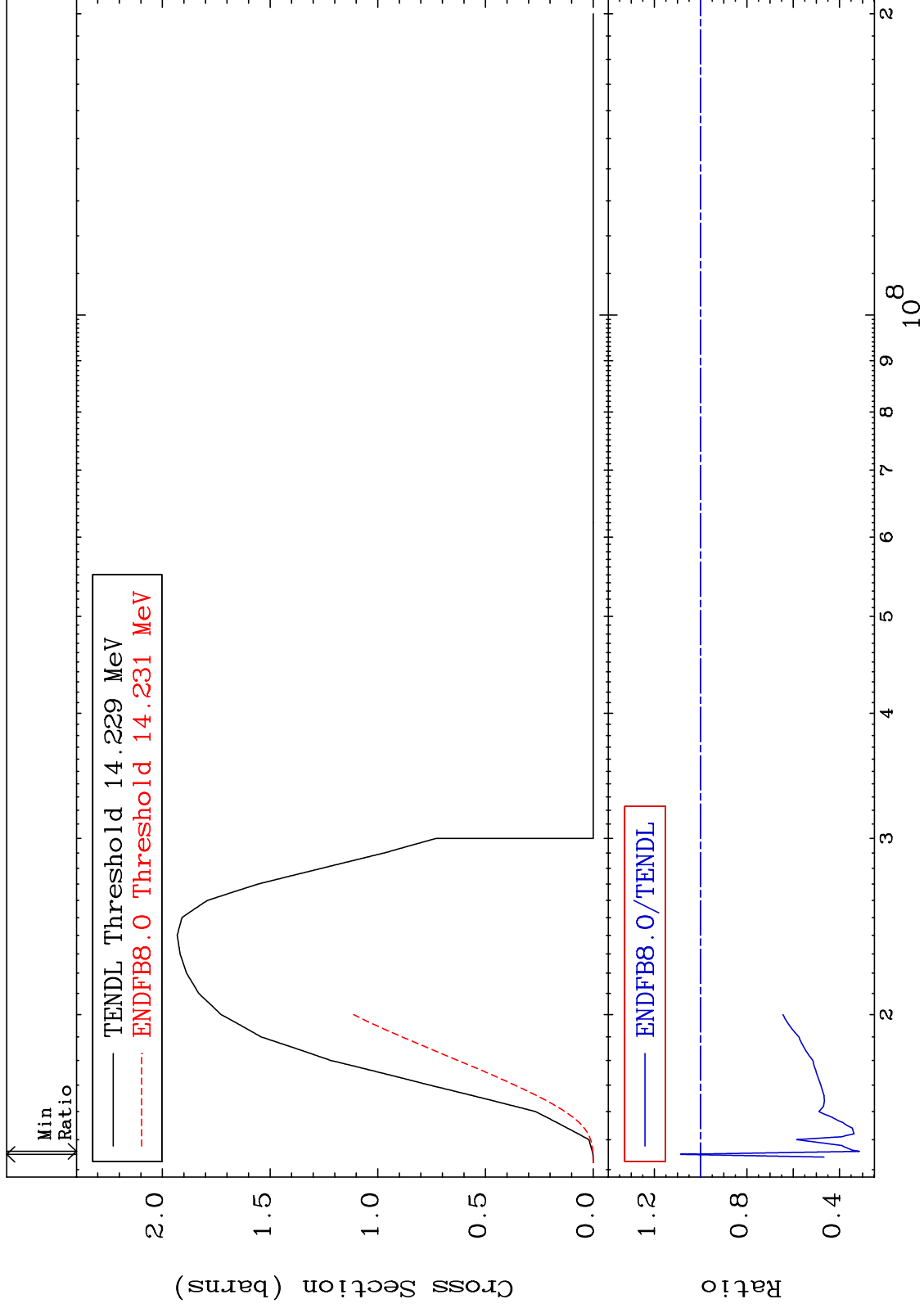
MAT 7525 (n,2n) Cross Section 75-Re-185 -17.48 To 167.2 %



MAT 7525

(n, 3n)
Cross Section

75-Re-185
-68.56 To 8.669 %



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Incident Energy (eV)

75-Re-185

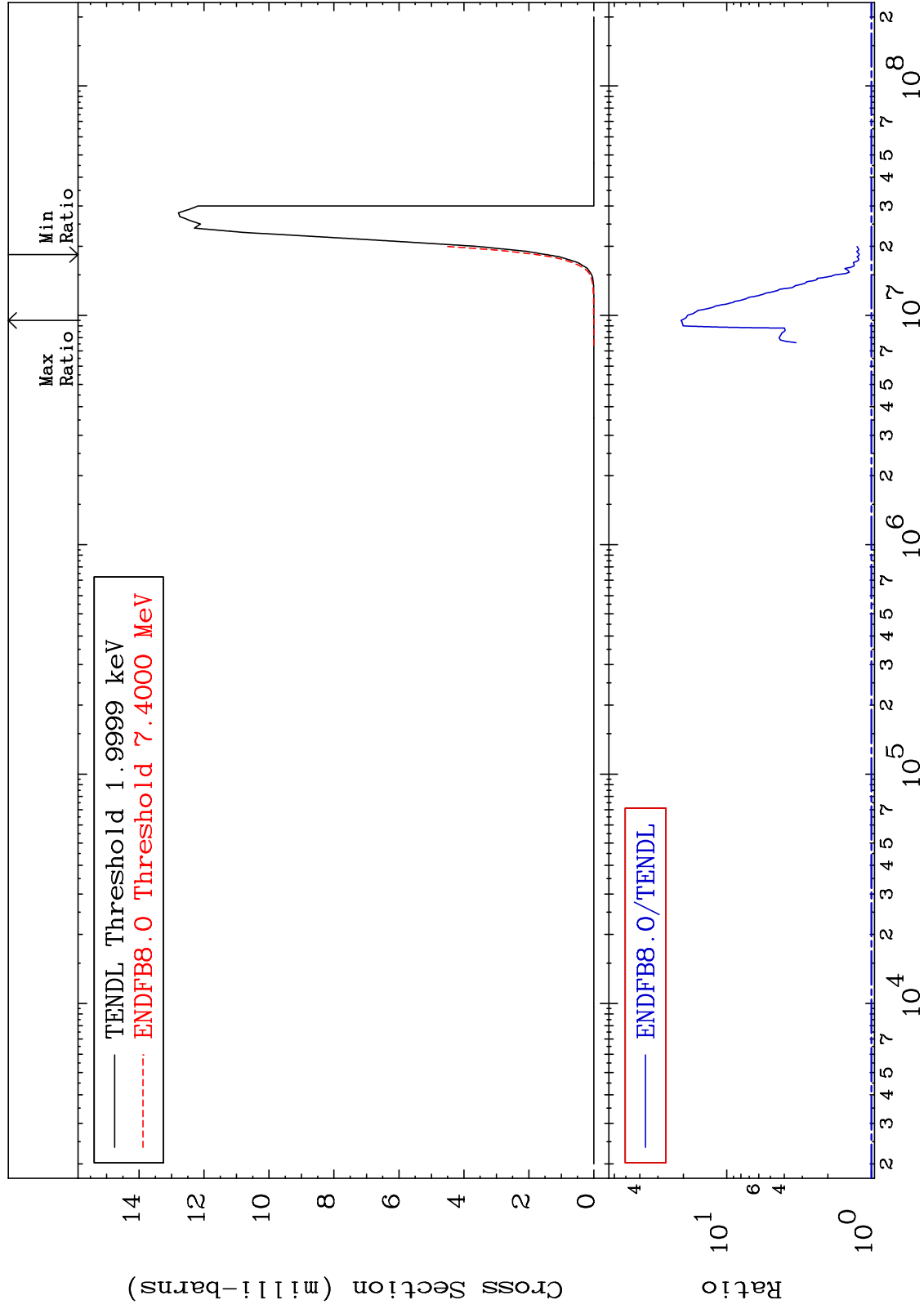
MAT 7525

(n,n') α

Cross Section

75-Re-185

21.17 To 1973. %



6

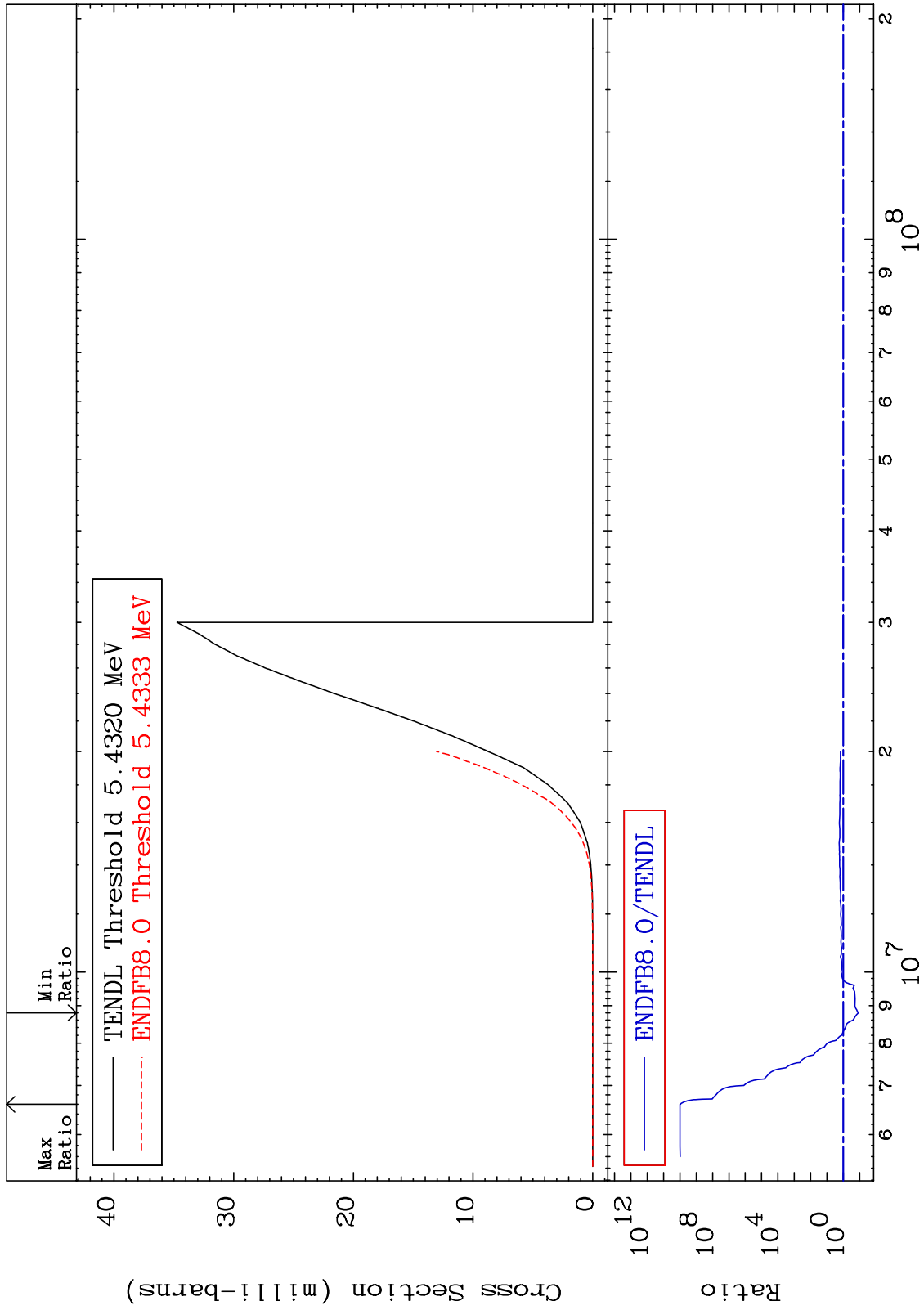
Incident Energy (eV)

75-Re-185

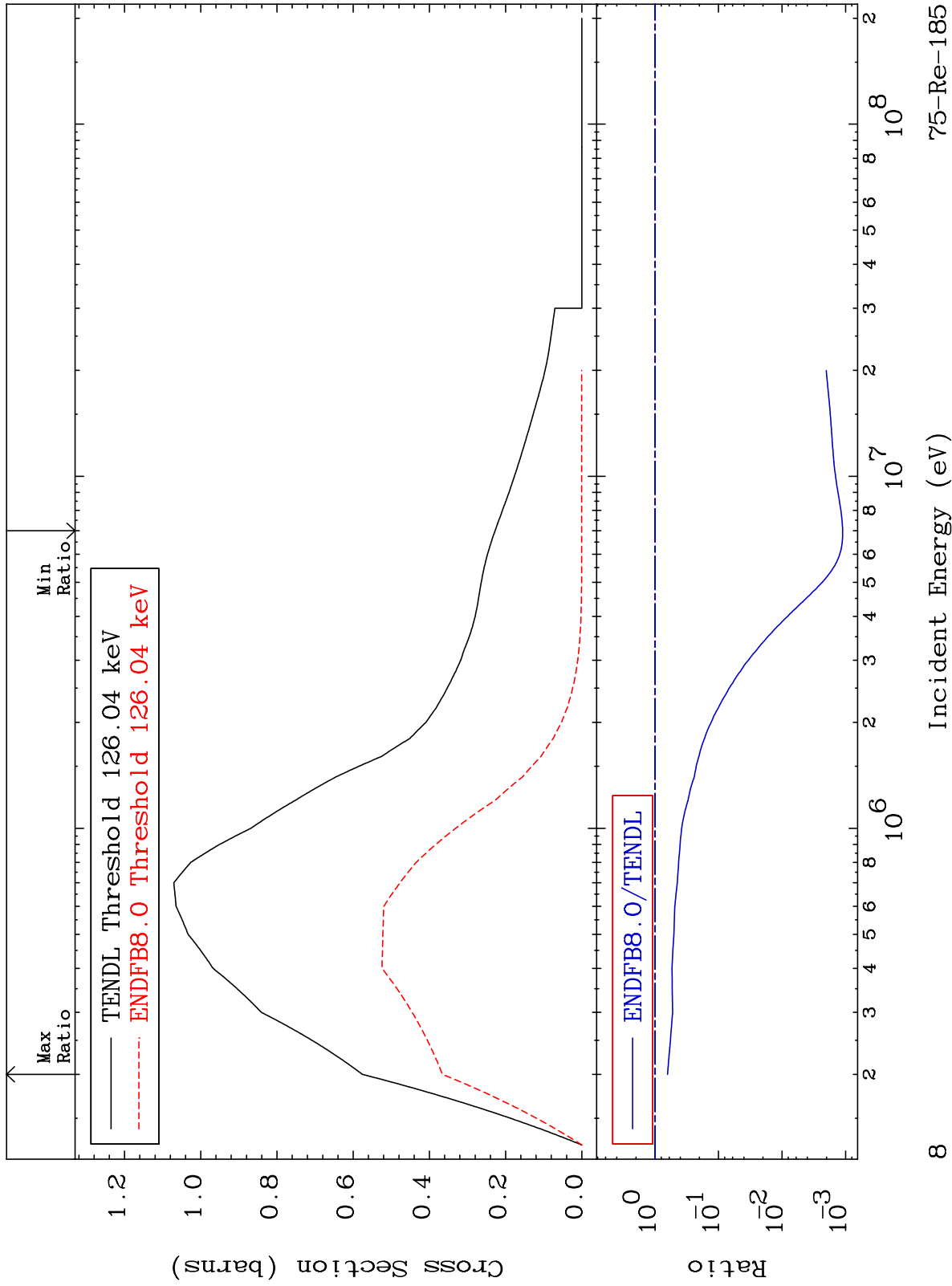
MAT 7525

(n,n') p
Cross Section

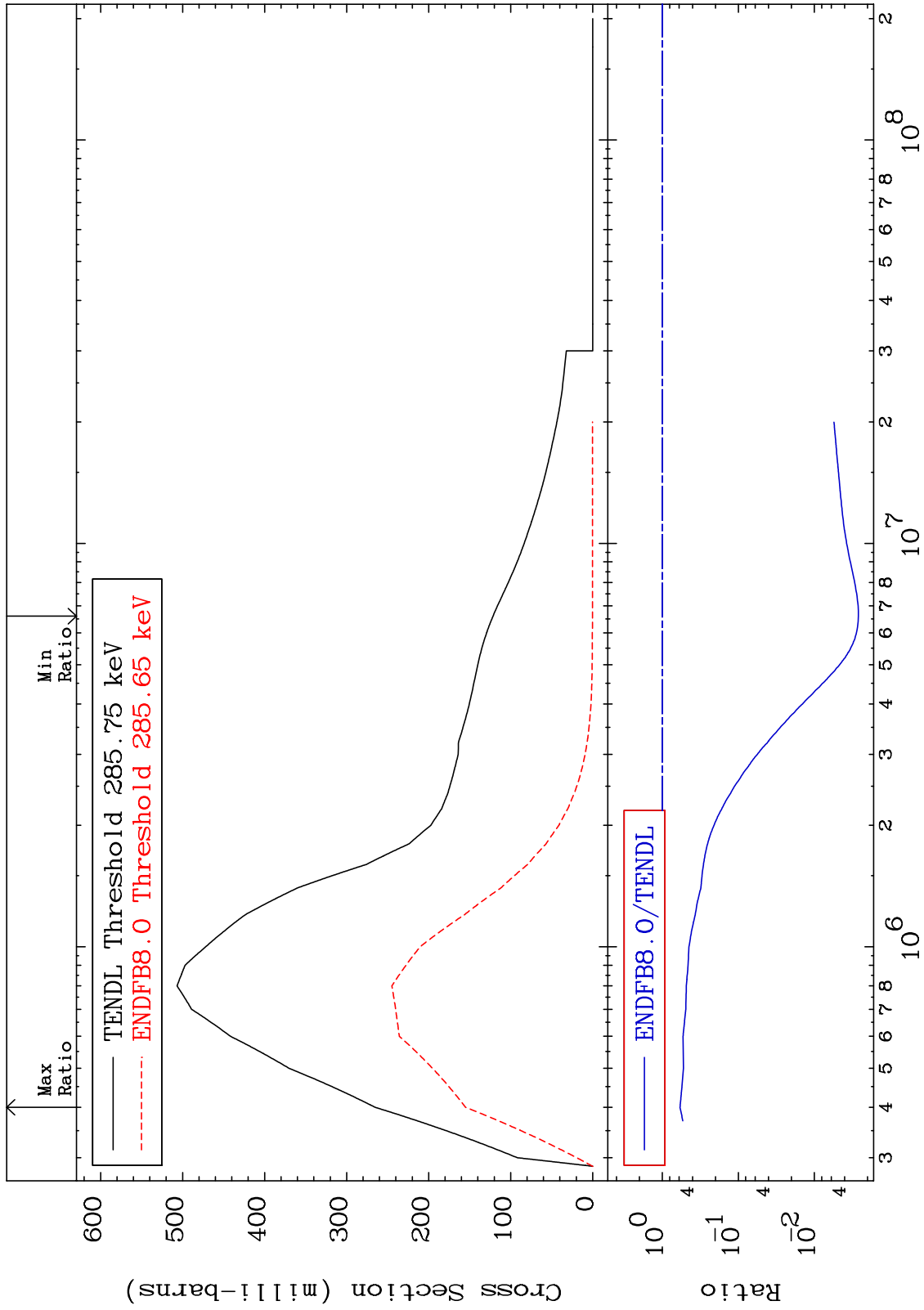
75-Re-185
-88.06 To 9999. %



MAT 7525 MT= 51 (n, n') Level Cross Section 75-Re-185 -99.89 To -36.48%



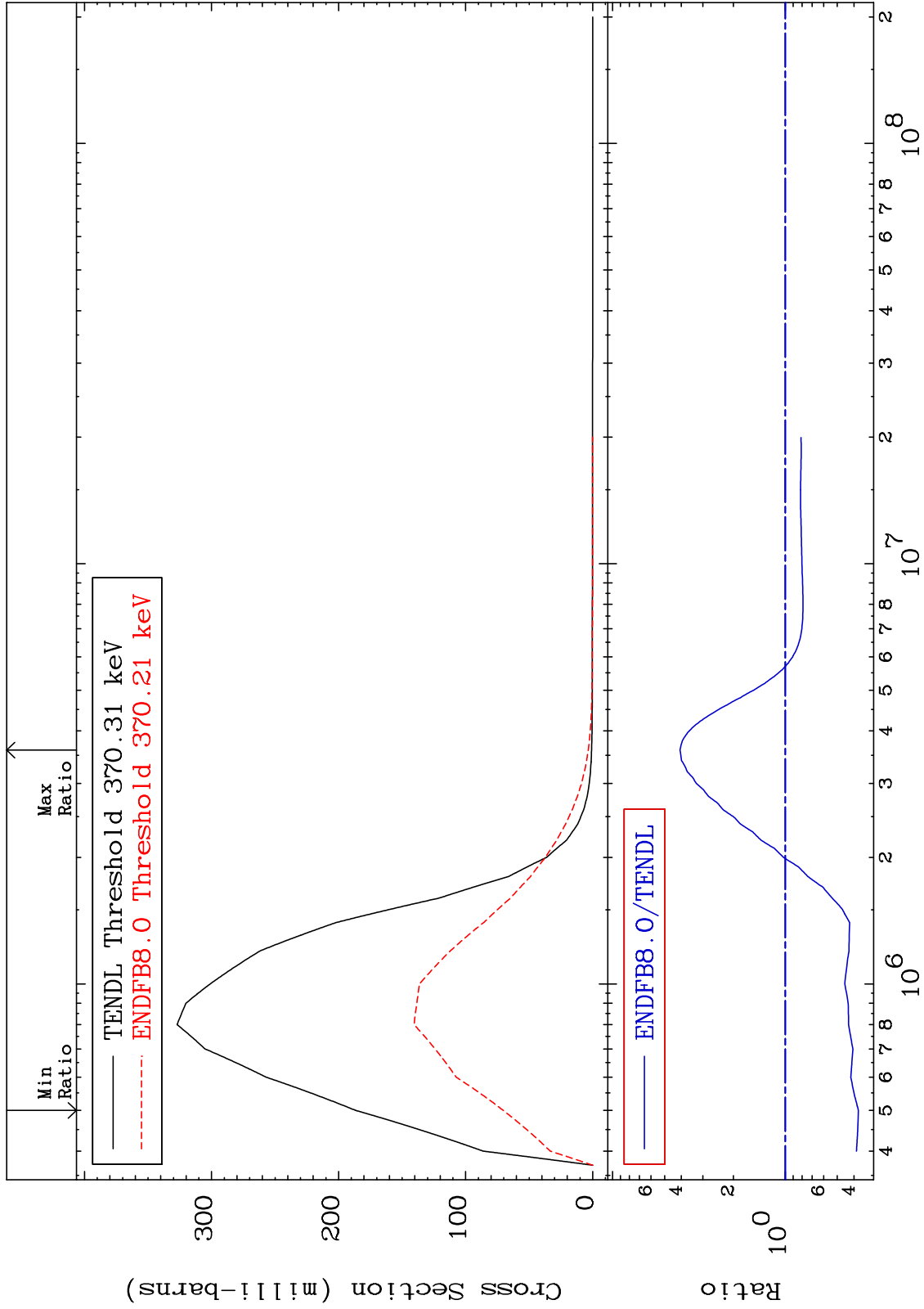
MAT 7525 MT= 52 (n,n') Level Cross Section 75-Re-185 -99.74 To -41.52%



MAT 7525

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

75-Re-185
-62.26 To 307.0 %

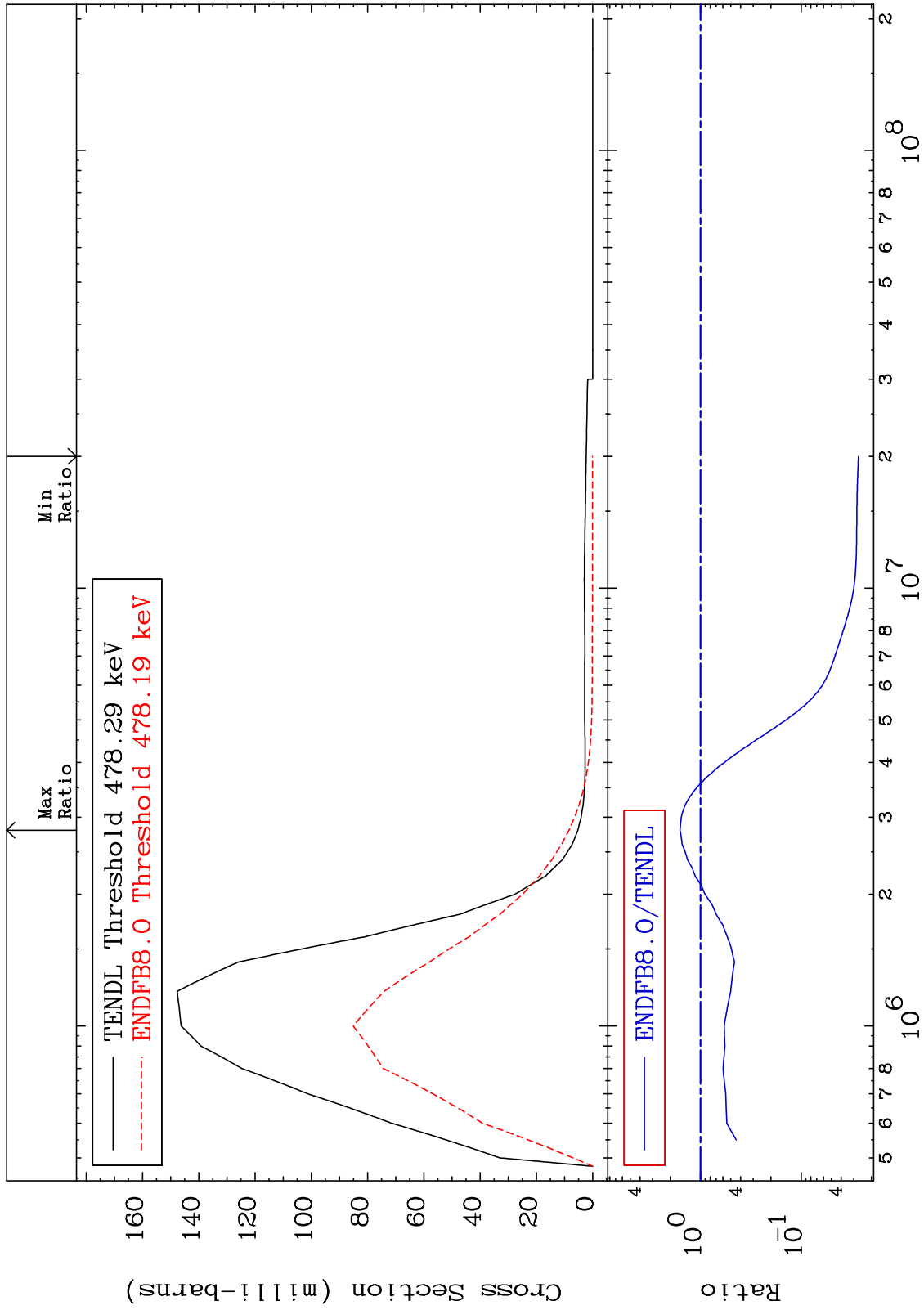


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75-Re-185

75-Re-185

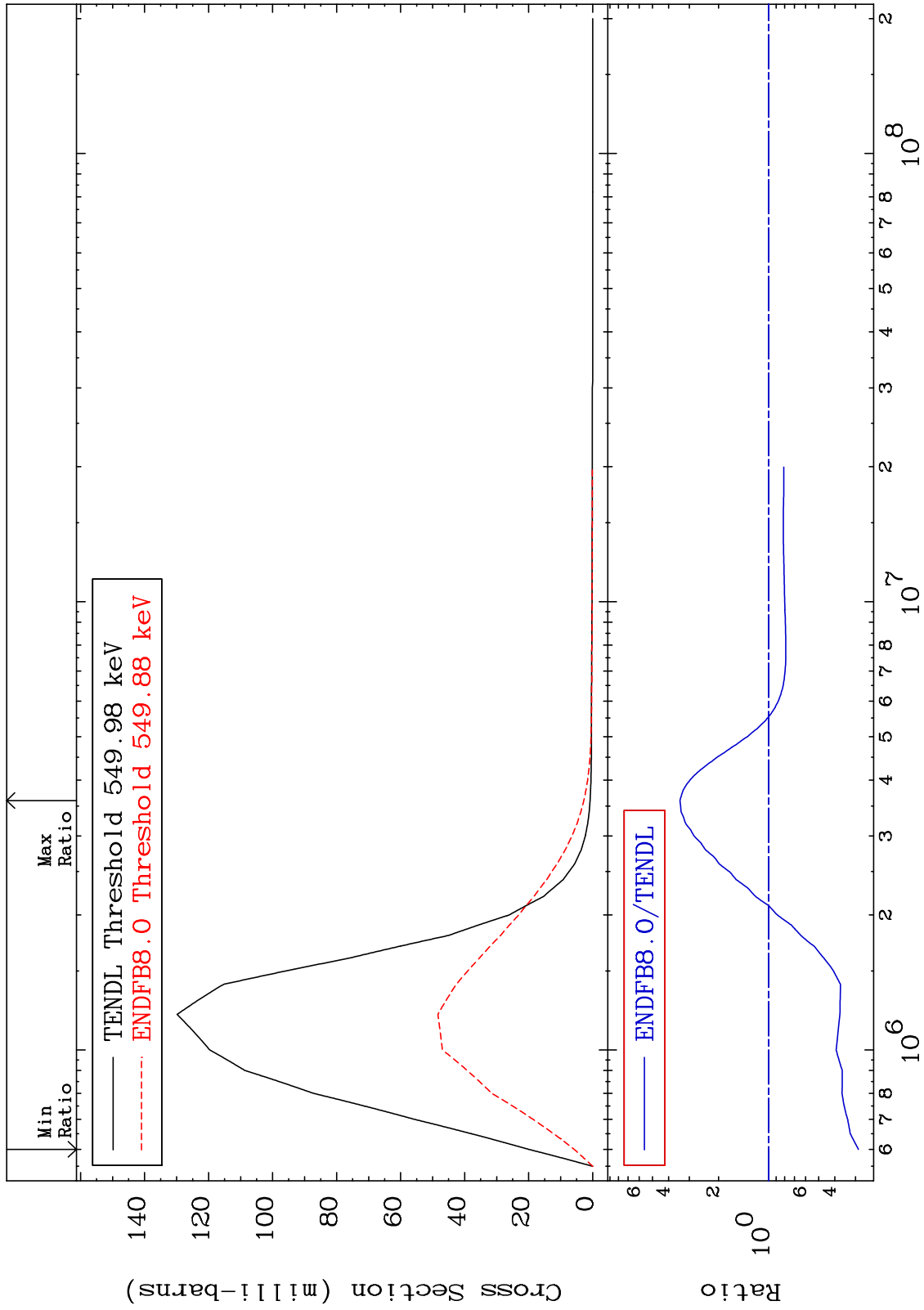
MAT 7525 MT= 54 (n,n') Level Cross Section 75-Re-185 -97.31 To 60.04 %



MAT 7525

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

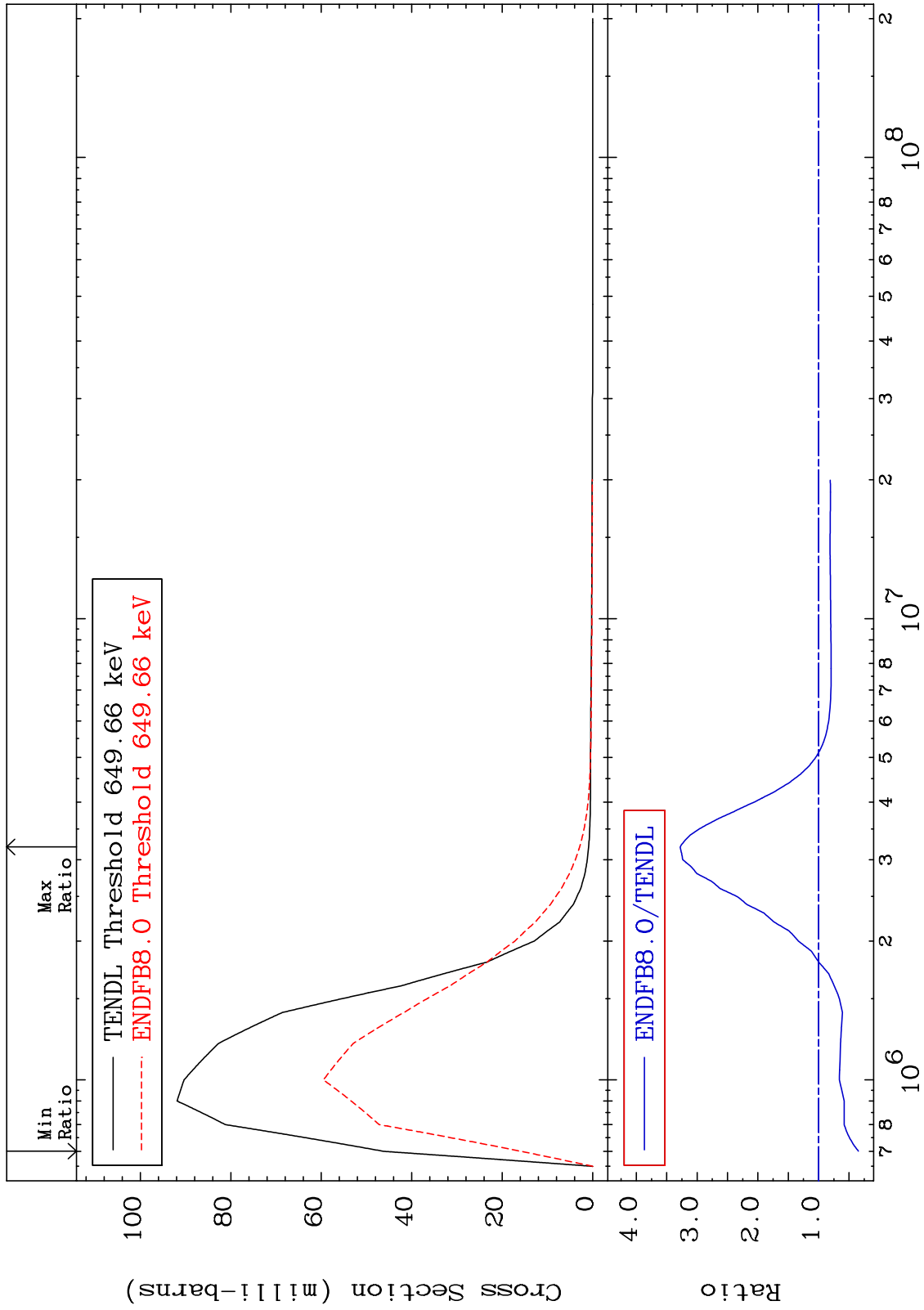
75-Re-185
-71.17 To 241.1 %



MAT 7525

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

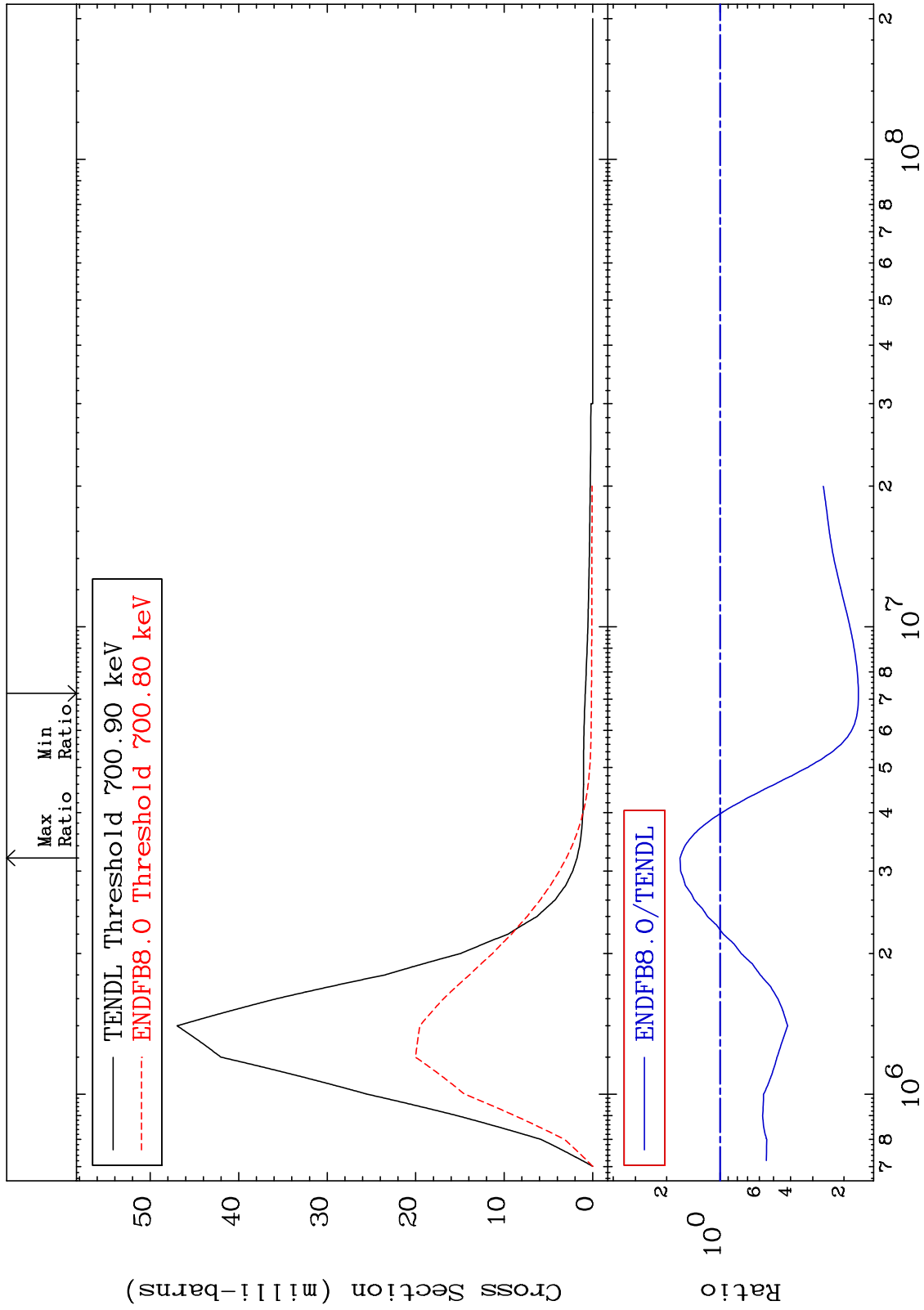
75-Re-185
-65.39 To 228.1 %



MAT 7525

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

75-Re-185
-83.41 To 68.11 %



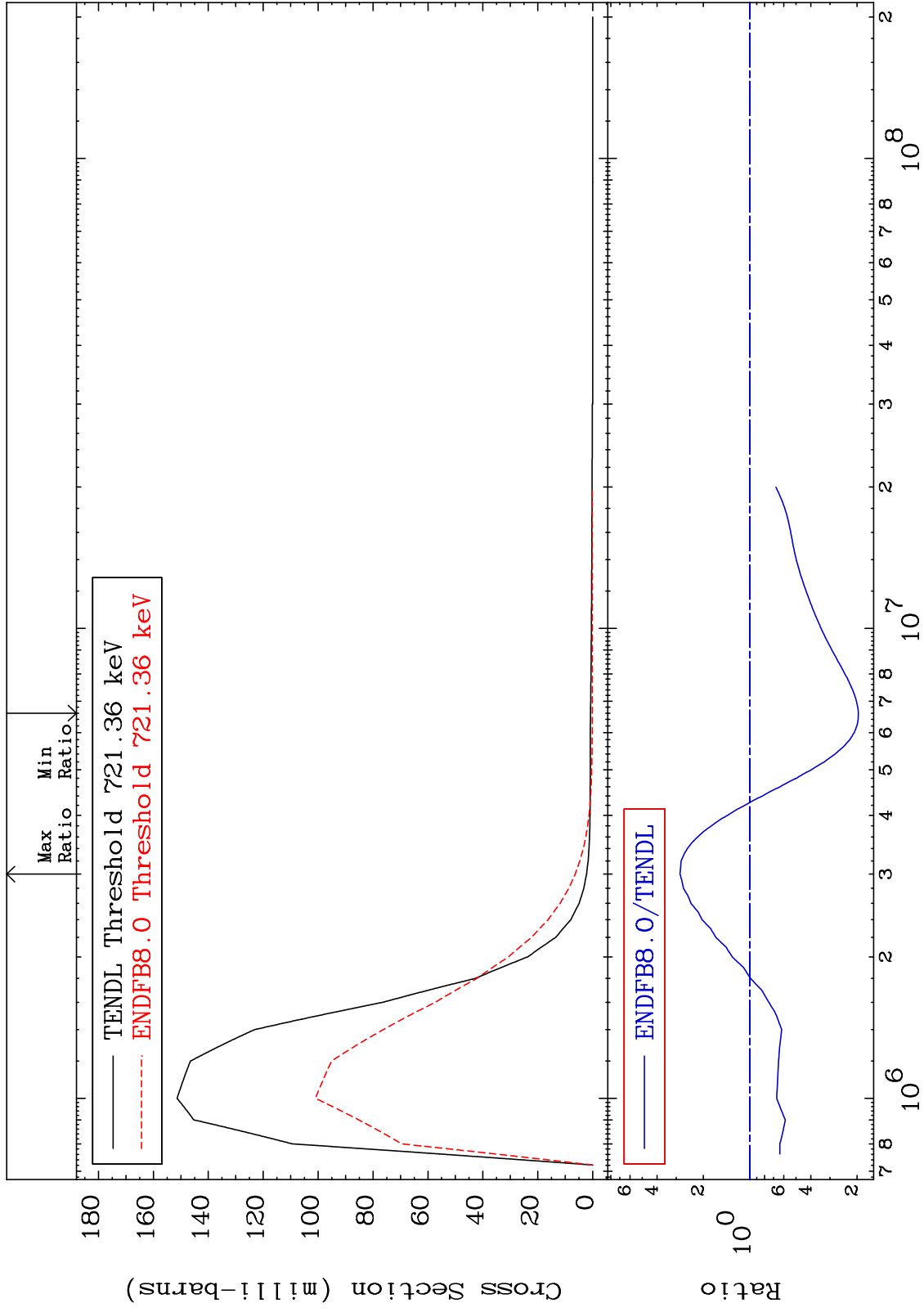
14

75-Re-185

MAT 7525

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

75-Re-185
-80.39 To 183.8 %



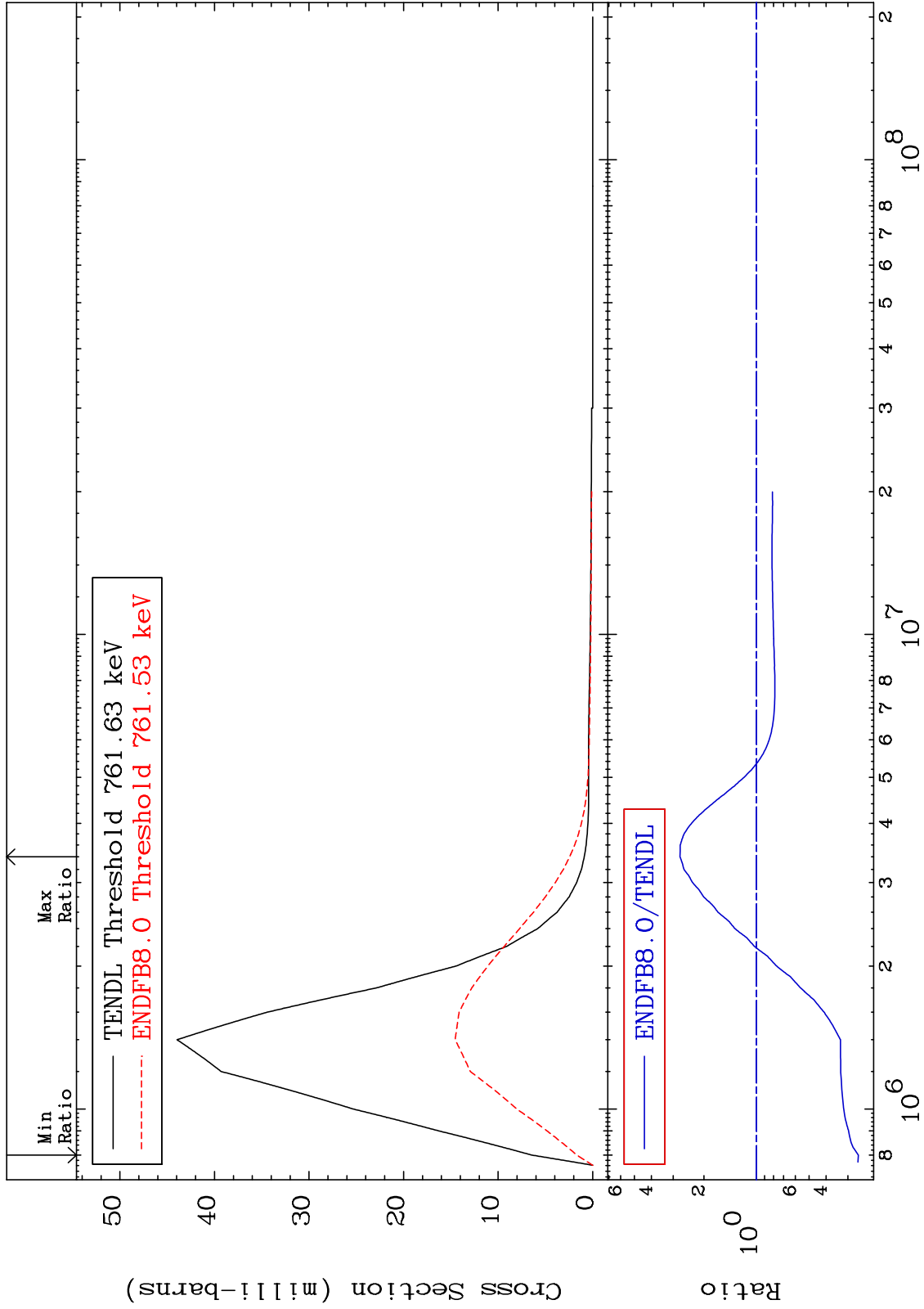
15

75-Re-185

MAT 7525

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

75-Re-185
-73.90 To 174.3 %



16

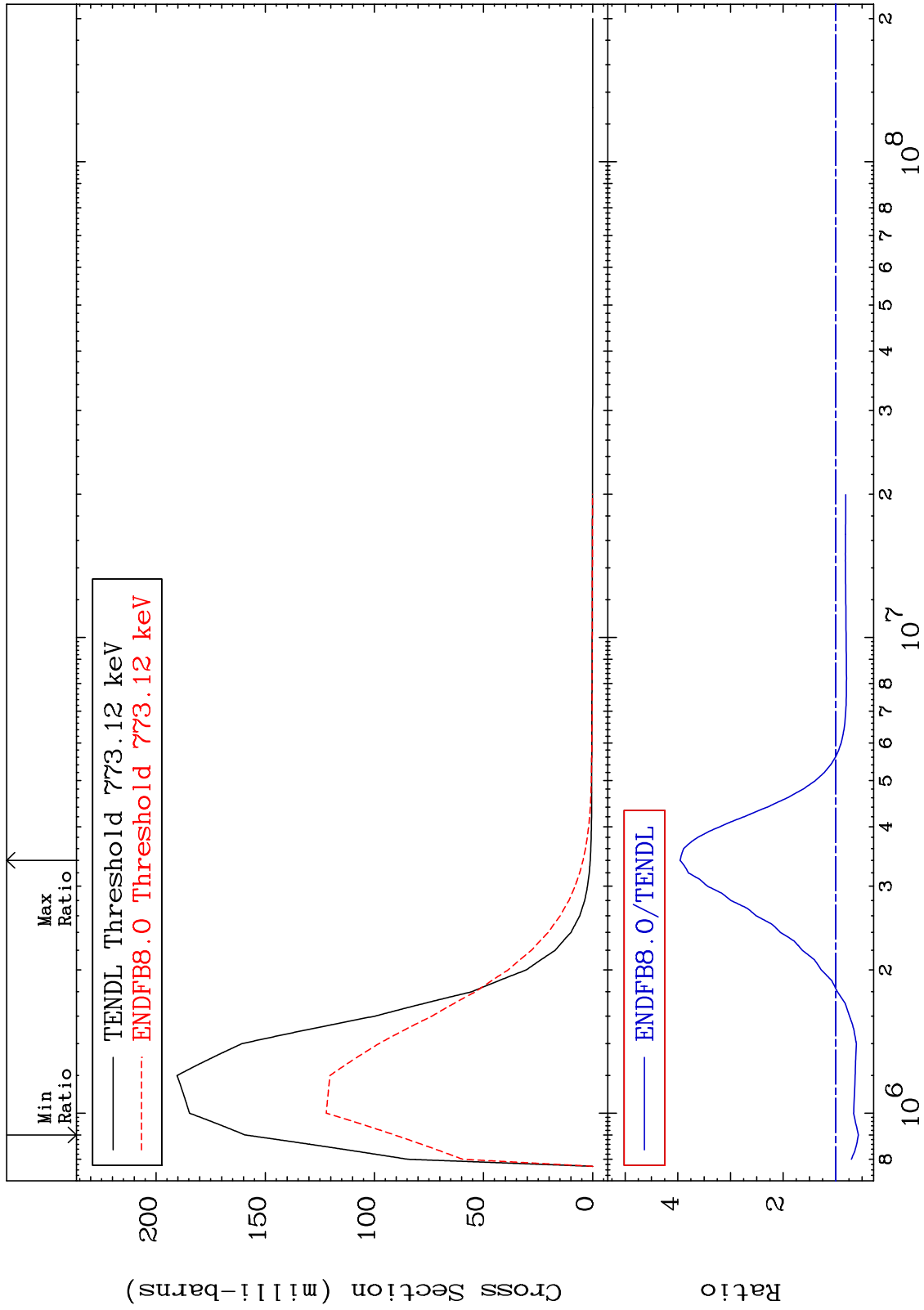
Incident Energy (eV)

75-Re-185

MAT 7525

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

75-Re-185
-42.98 To 295.7 %

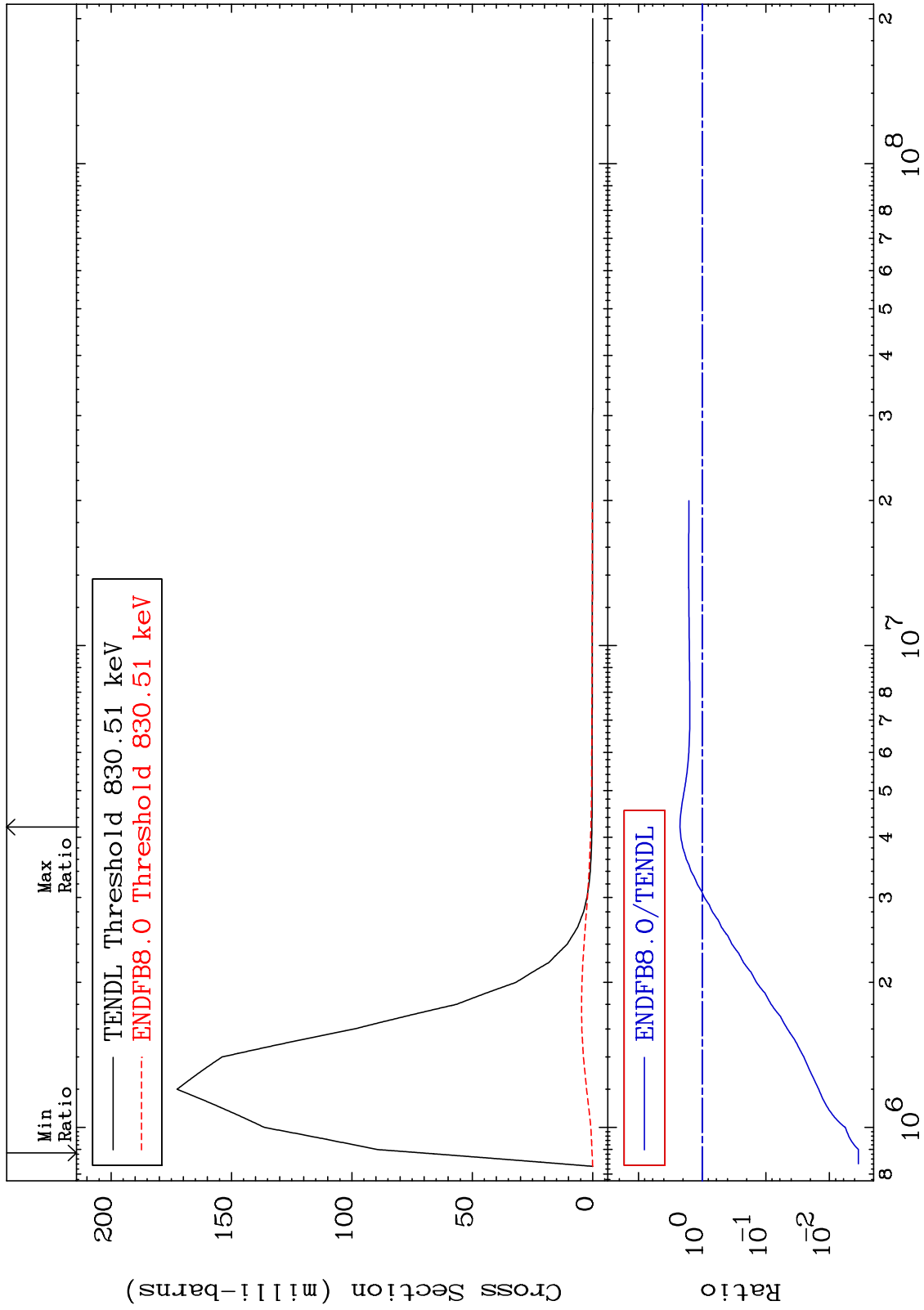


17

Incident Energy (eV)

75-Re-185

MAT 7525 MT= 61 (n,n') Level Cross Section 75-Re-185 -99.65 To 122.9 %

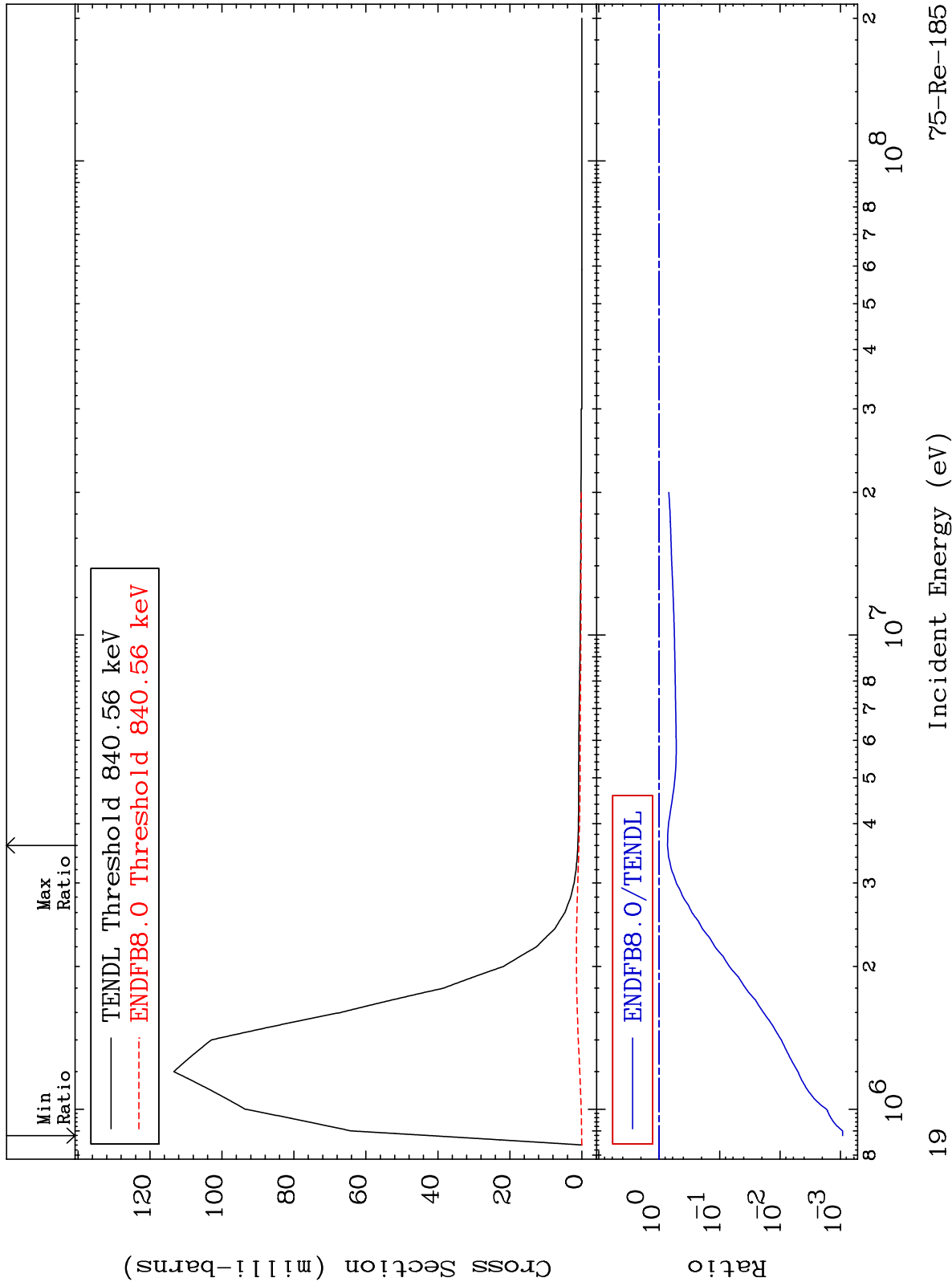


18 Incident Energy (eV) 75-Re-185

MAT 7525

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

75-Re-185
-99.91 To -27.24%



75-Re-185

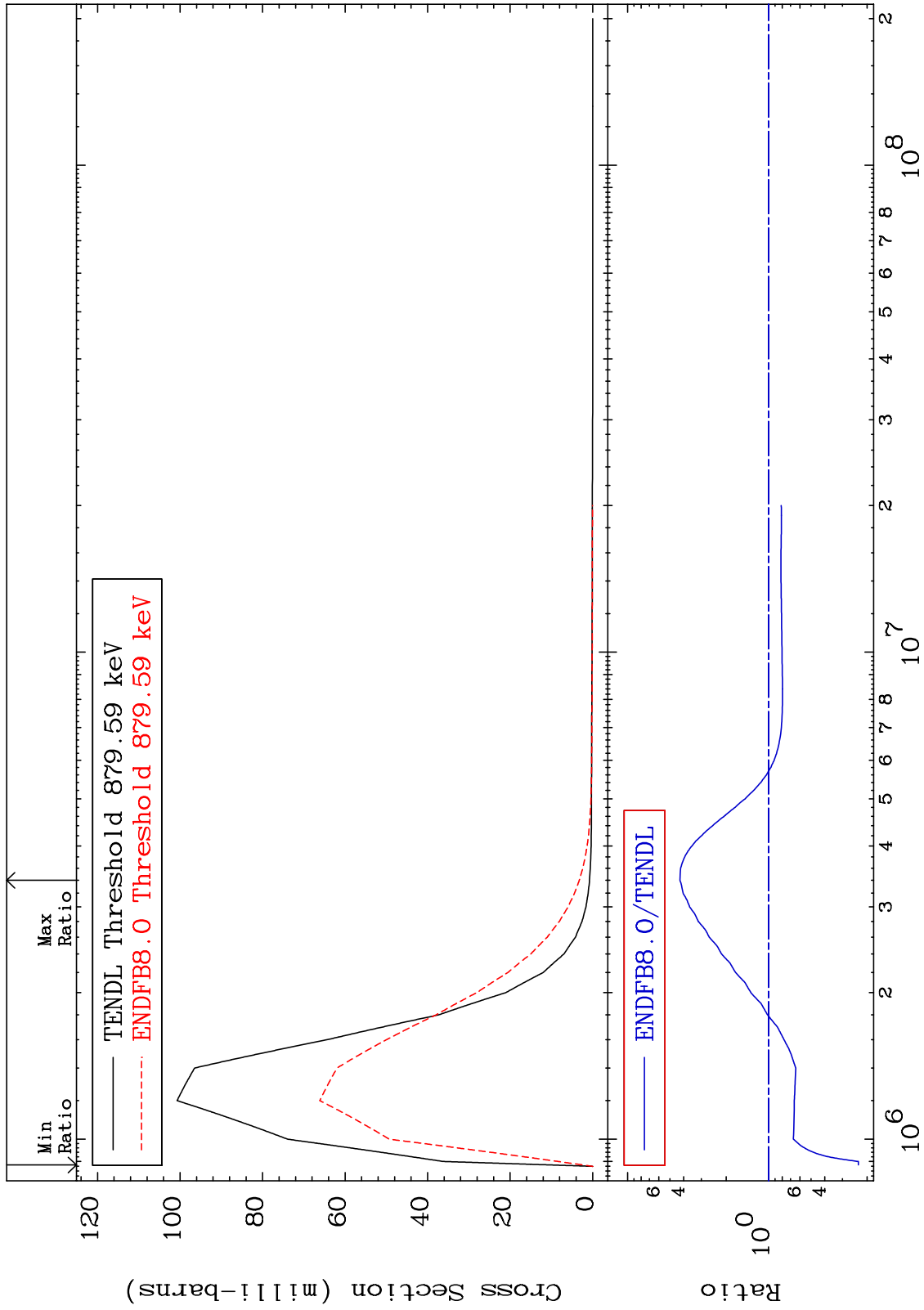
Incident Energy (eV)

19

MAT 7525

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

75-Re-185
-76.92 To 324.4 %



Incident Energy (eV)

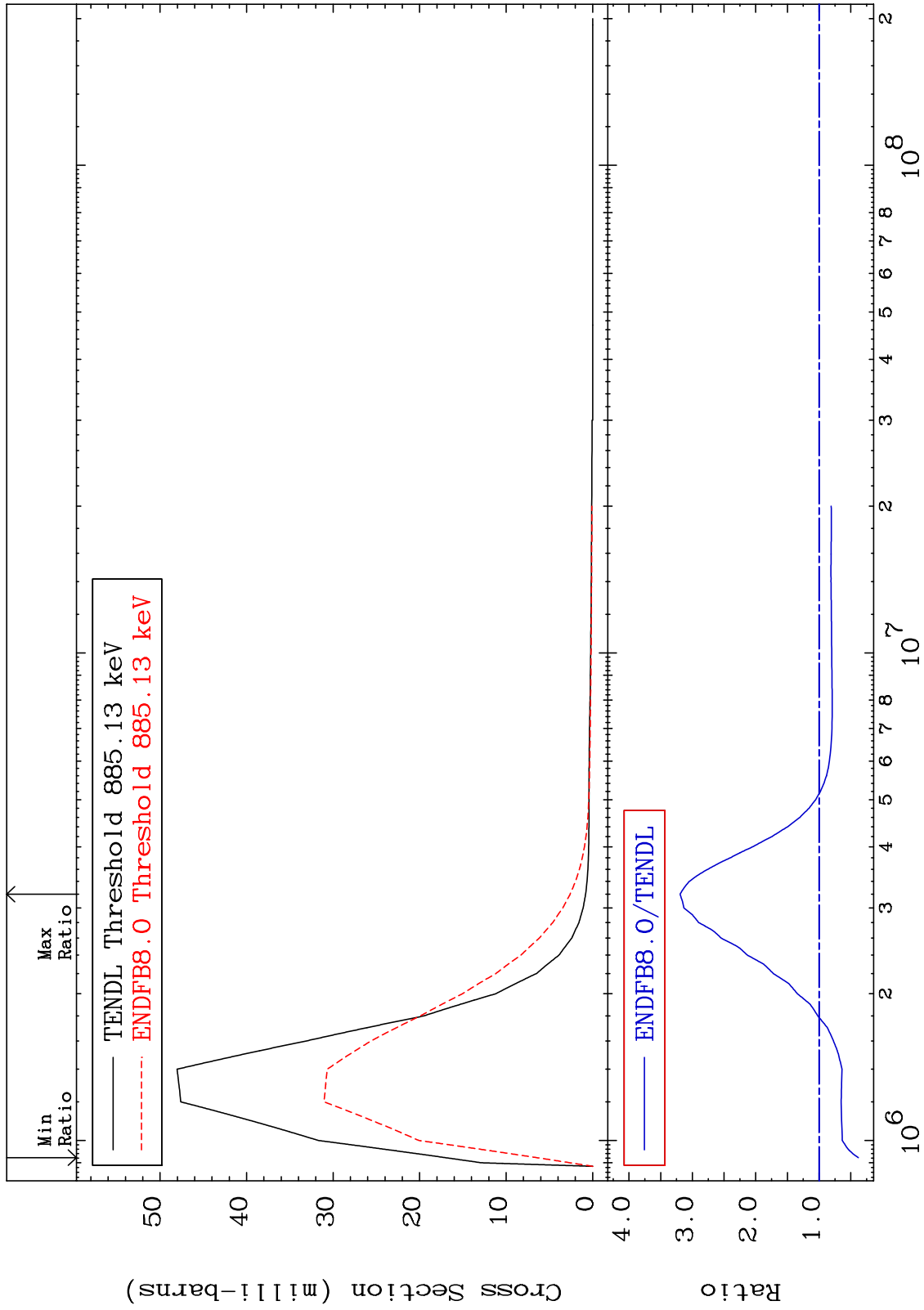
75-Re-185

20

MAT 7525

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

75-Re-185
-62.04 To 219.5 %



21

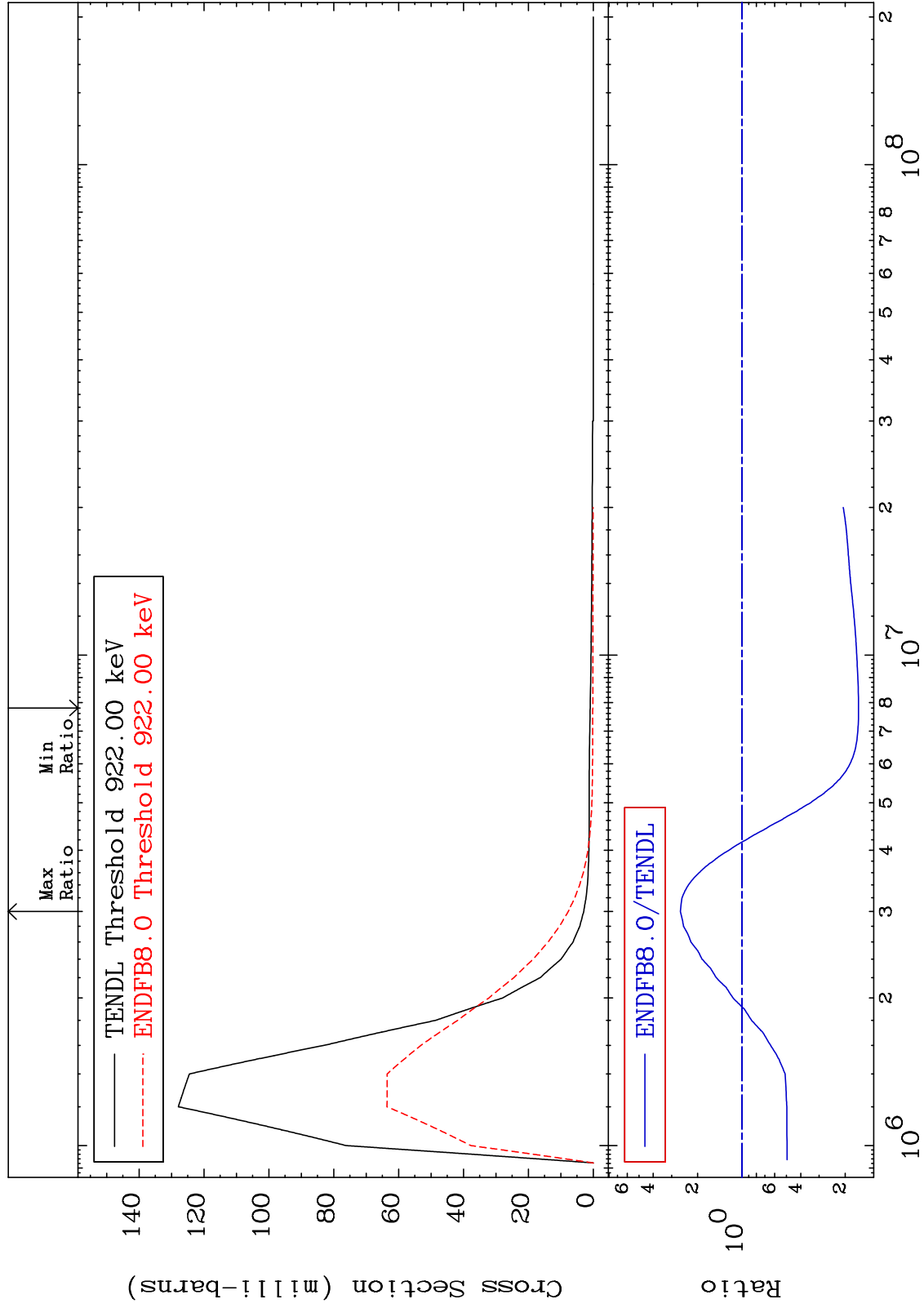
Incident Energy (eV)

75-Re-185

MAT 7525

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

75-Re-185
-83.78 To 161.6 %



22

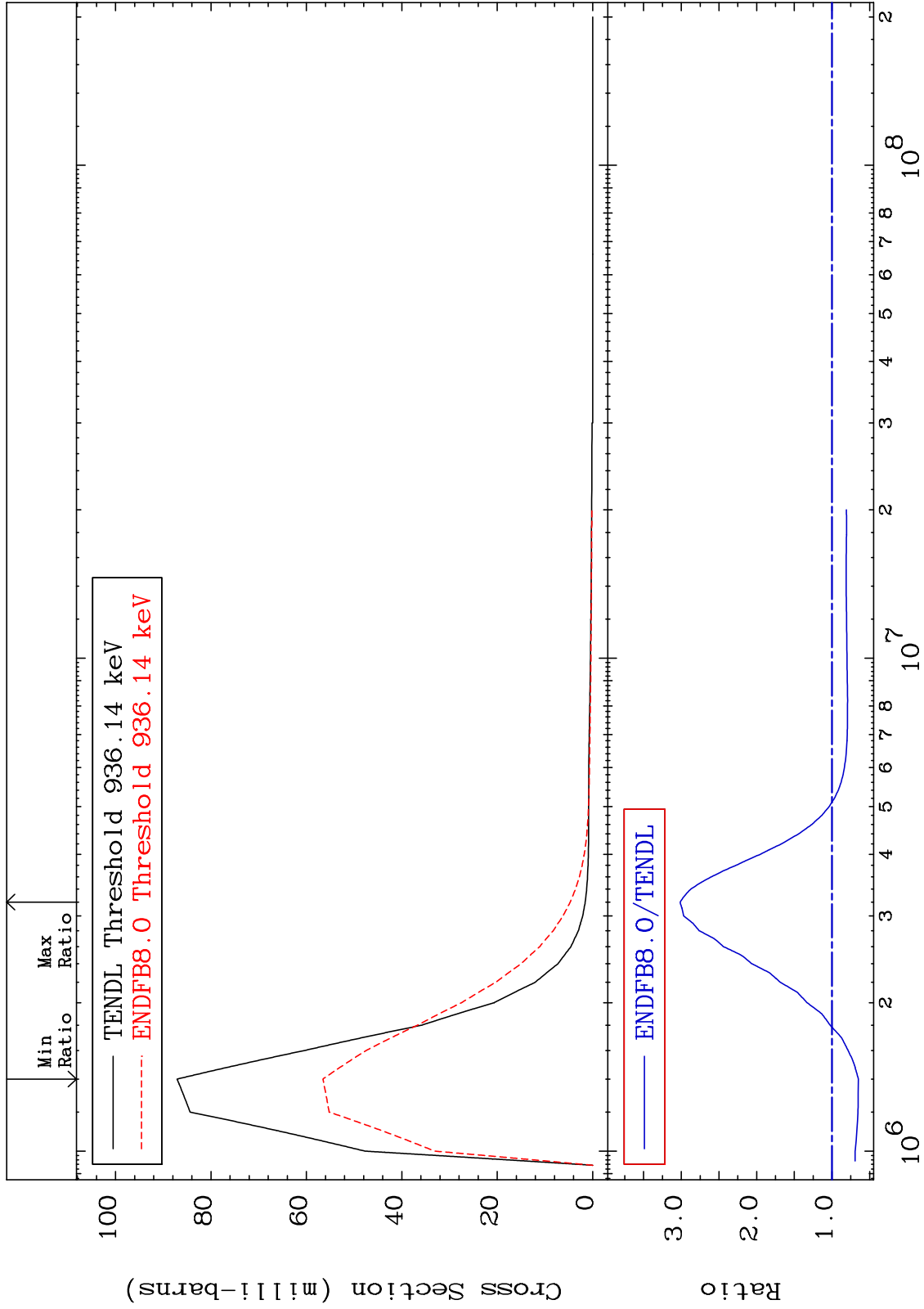
Incident Energy (eV)

75-Re-185

MAT 7525

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

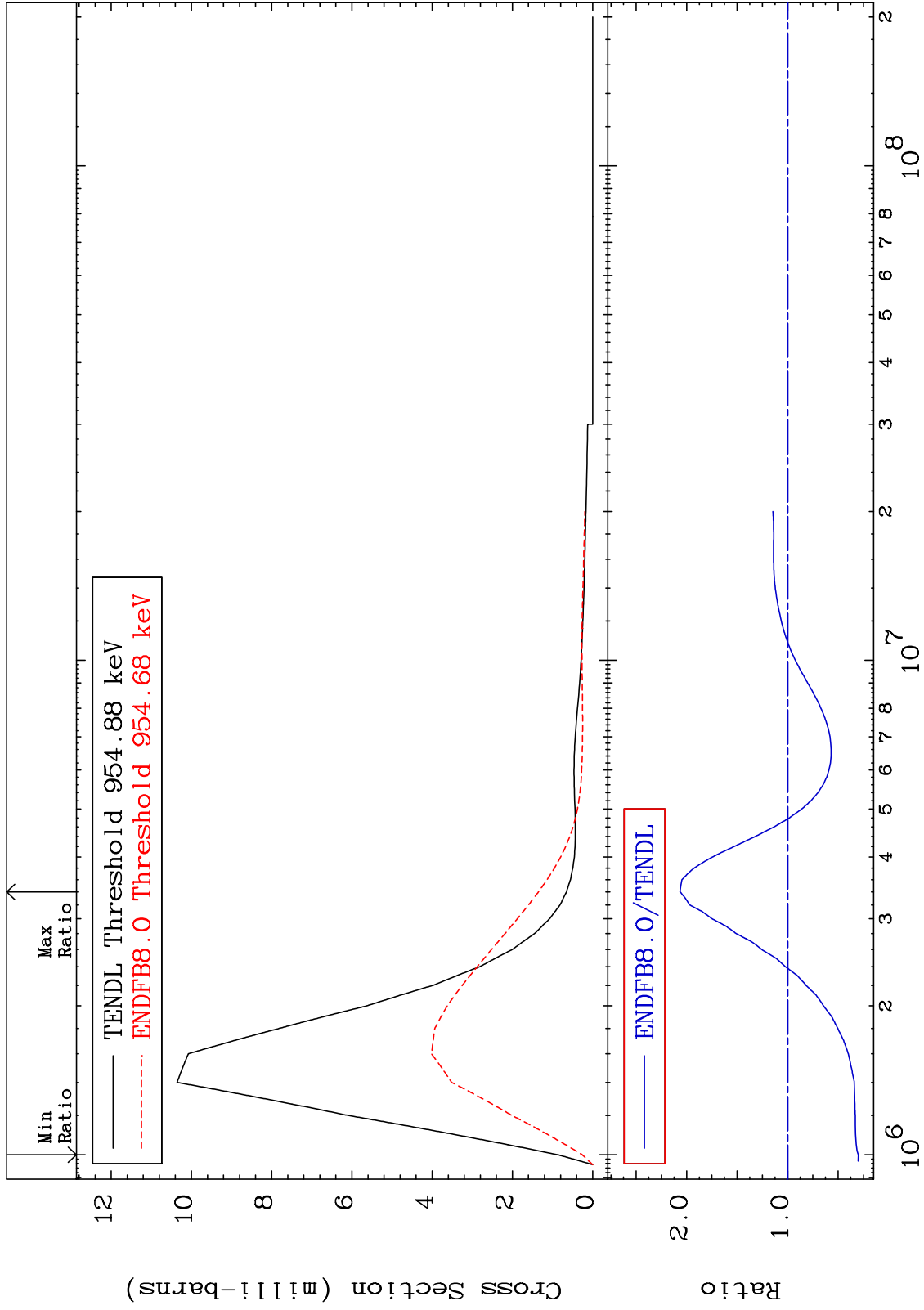
75-Re-185
-35.08 To 201.7 %



MAT 7525

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

75-Re-185
-70.14 To 106.6 %

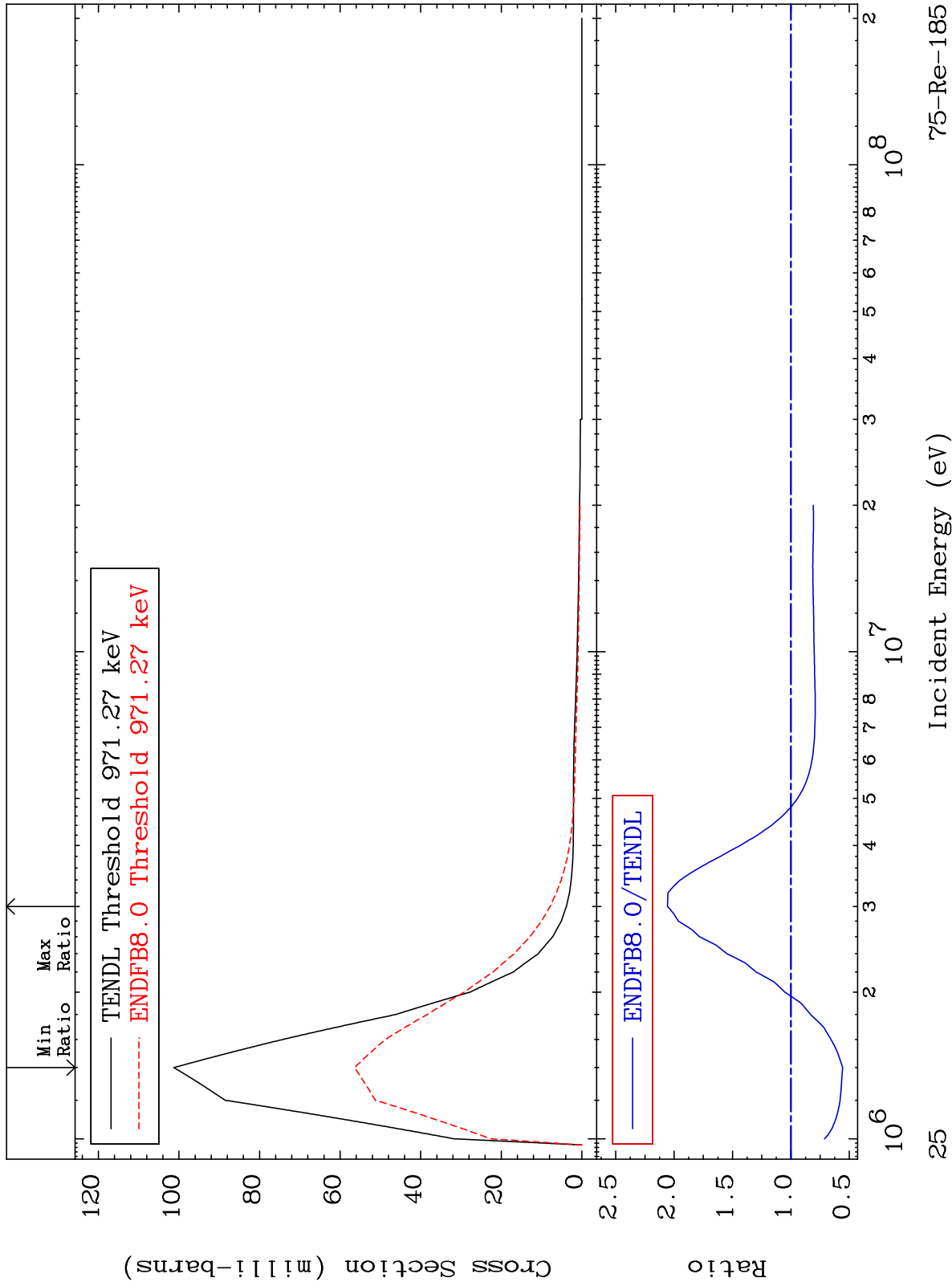


24

Incident Energy (eV)

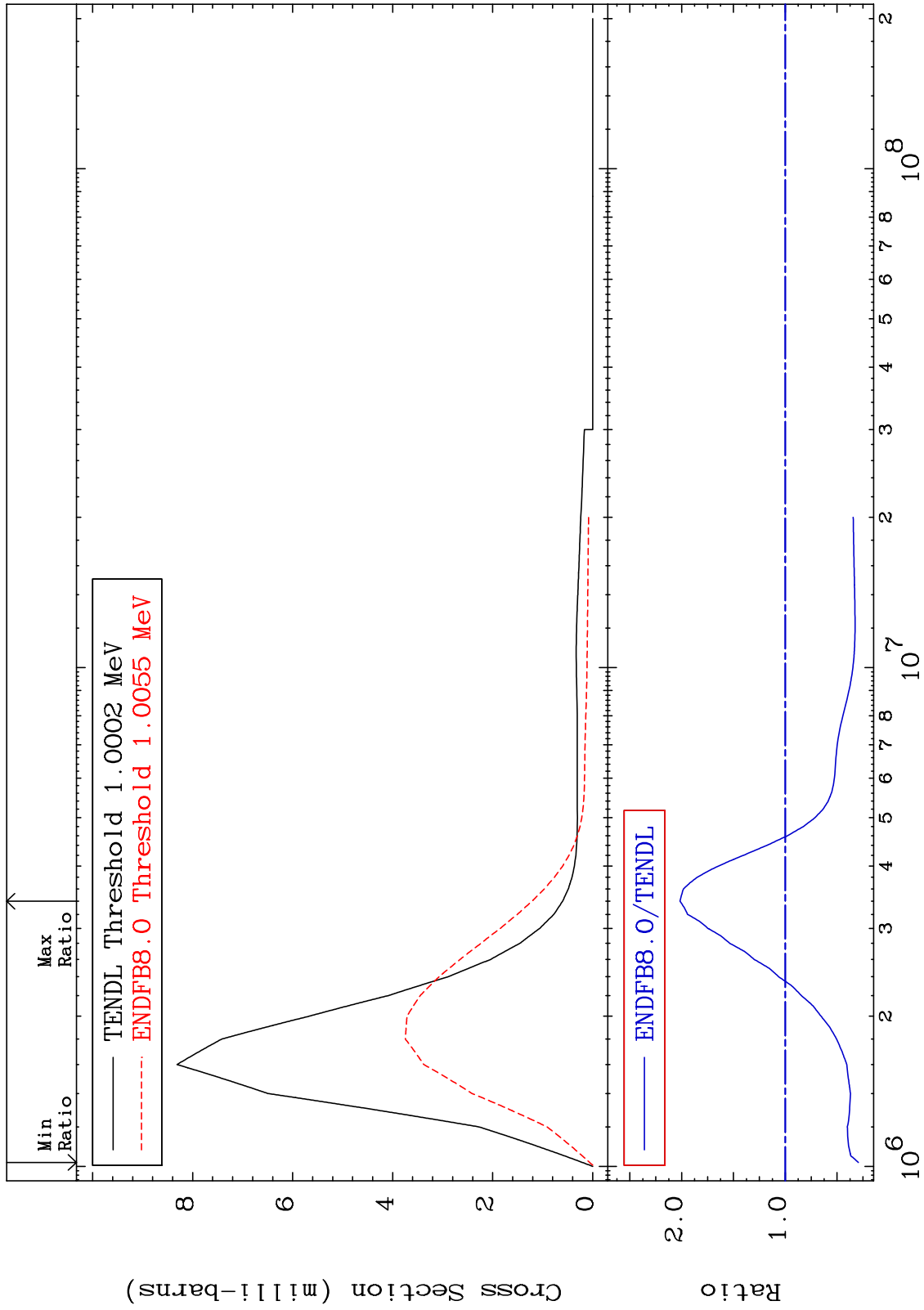
75-Re-185

MAT 7525 MT= 68 (n,n') Level Cross Section 75-Re-185
 -44.30 To 105.6 %



25

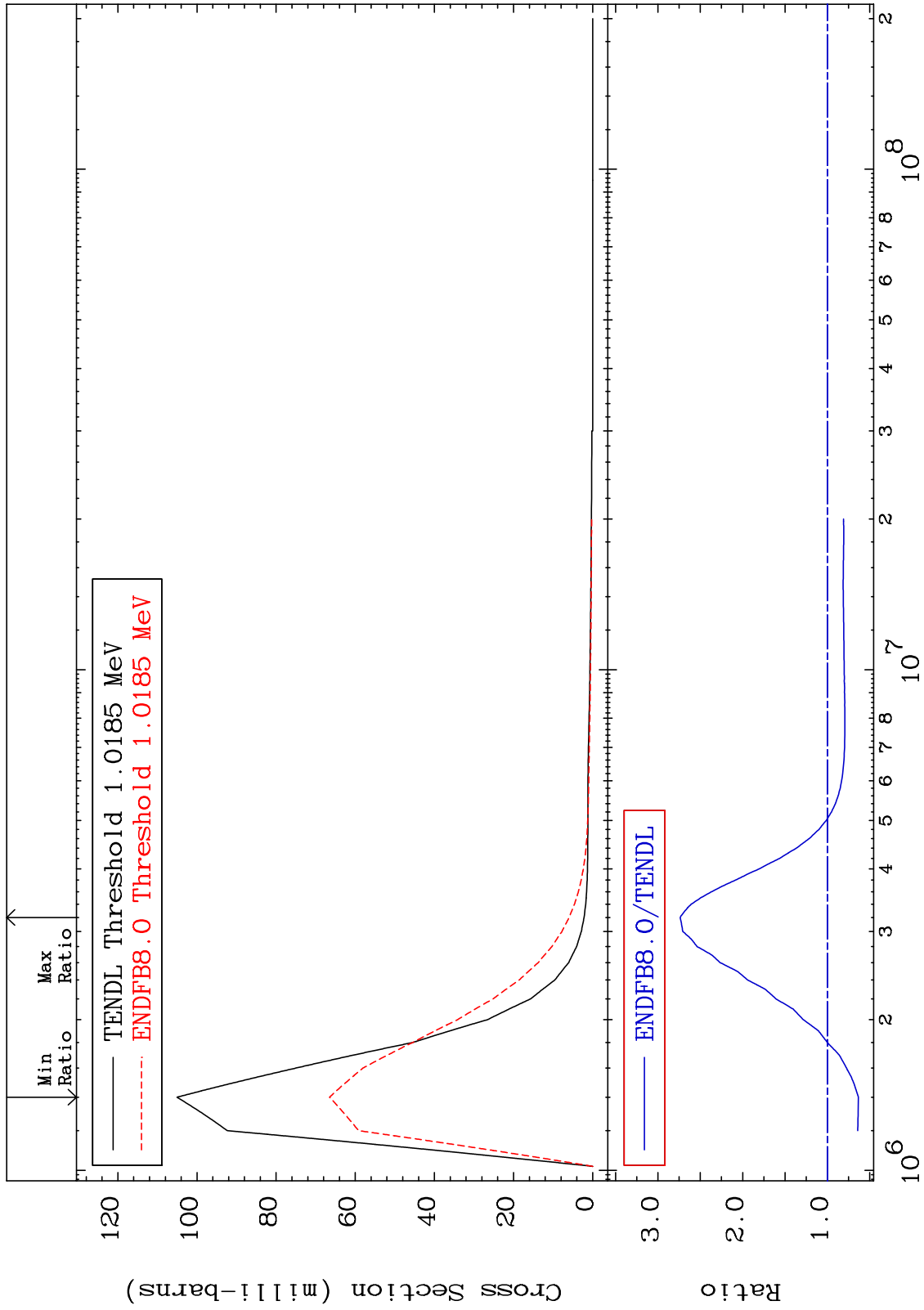
MAT 7525 MT= 69 (n,n') Level Cross Section 75-Re-185 -70.59 To 101.6 %



MAT 7525

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

75-Re-185
-36.70 To 174.0 %



27

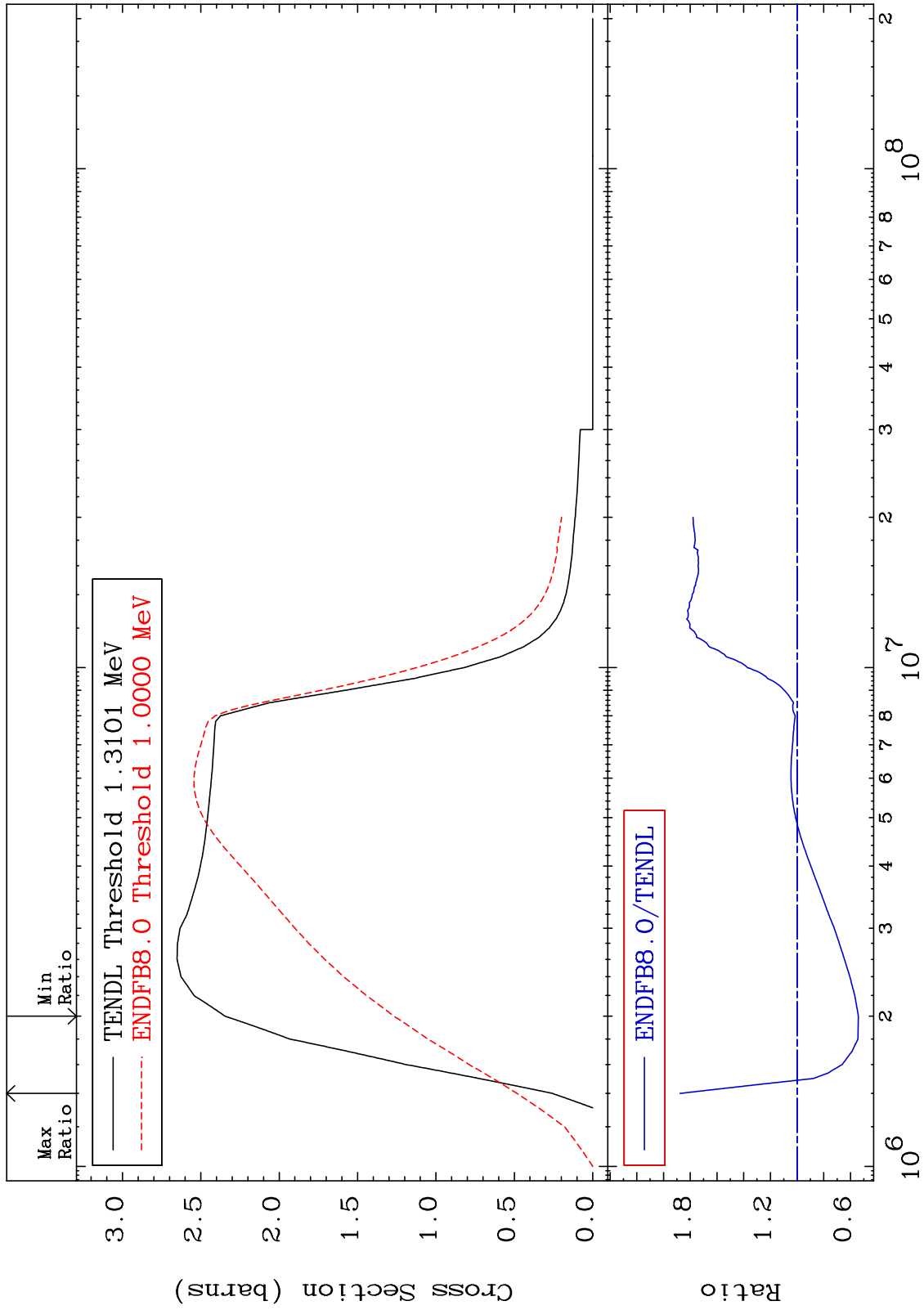
Incident Energy (eV)

75-Re-185

MAT 7525

(n, n') Continuum
Cross Section

⁷⁵Re-185
-45.92 To 87.65 %



Incident Energy (eV)

⁷⁵Re-185

28

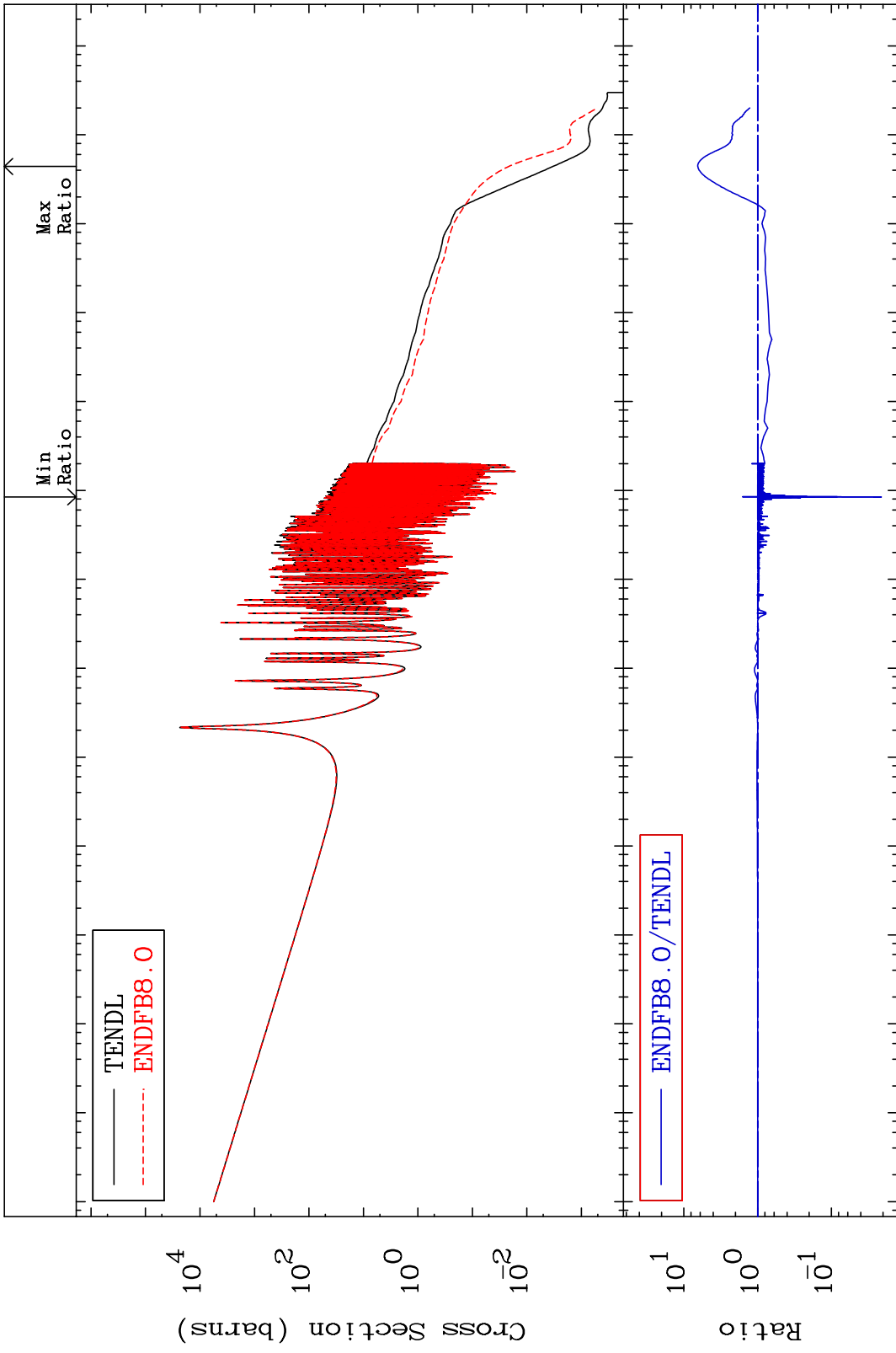
MAT 7525

(n, γ)

75-Re-185

Cross Section

-97.90 To 547.1 %



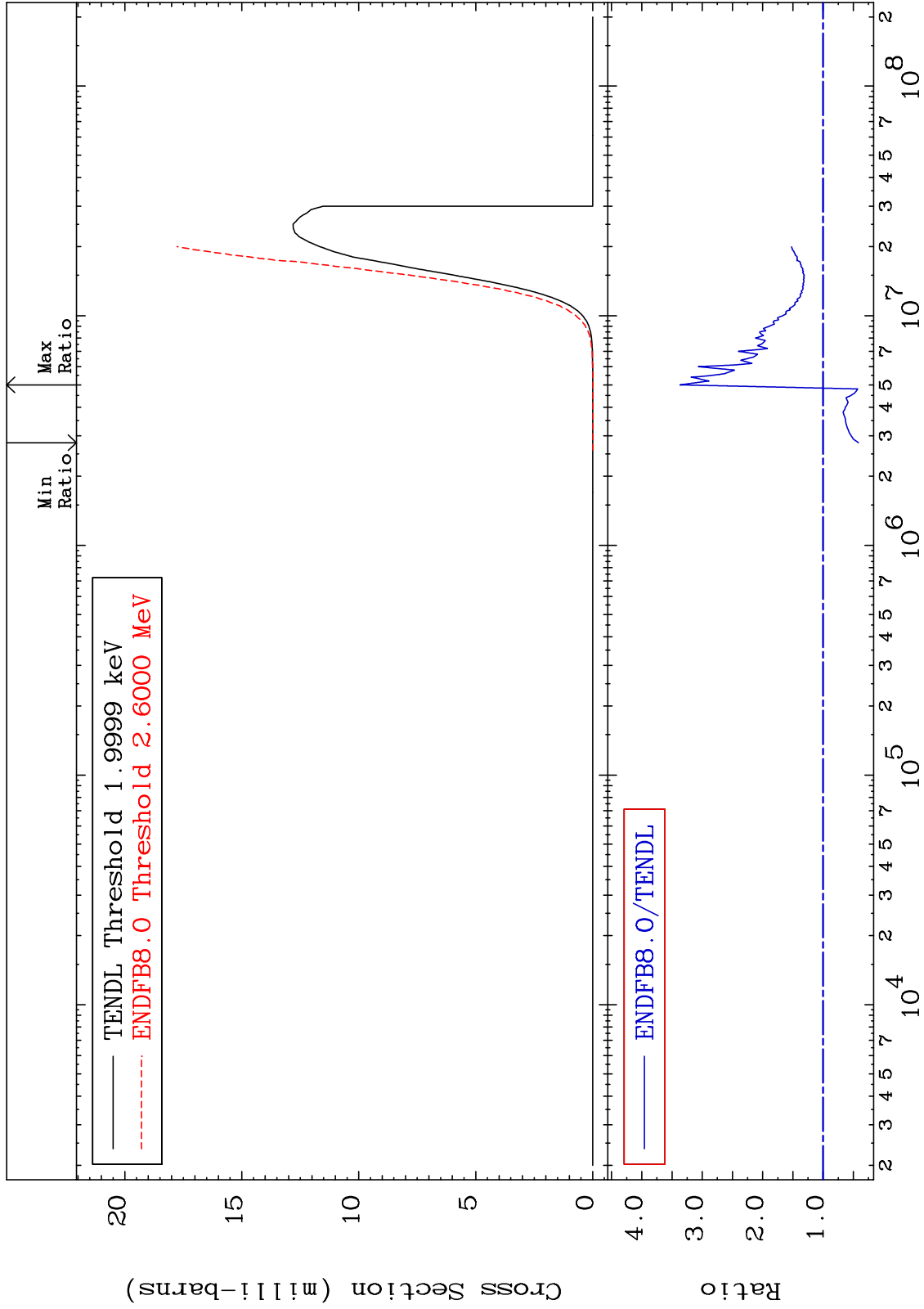
MAT 7525

(n, p)

75-Re-185

Cross Section

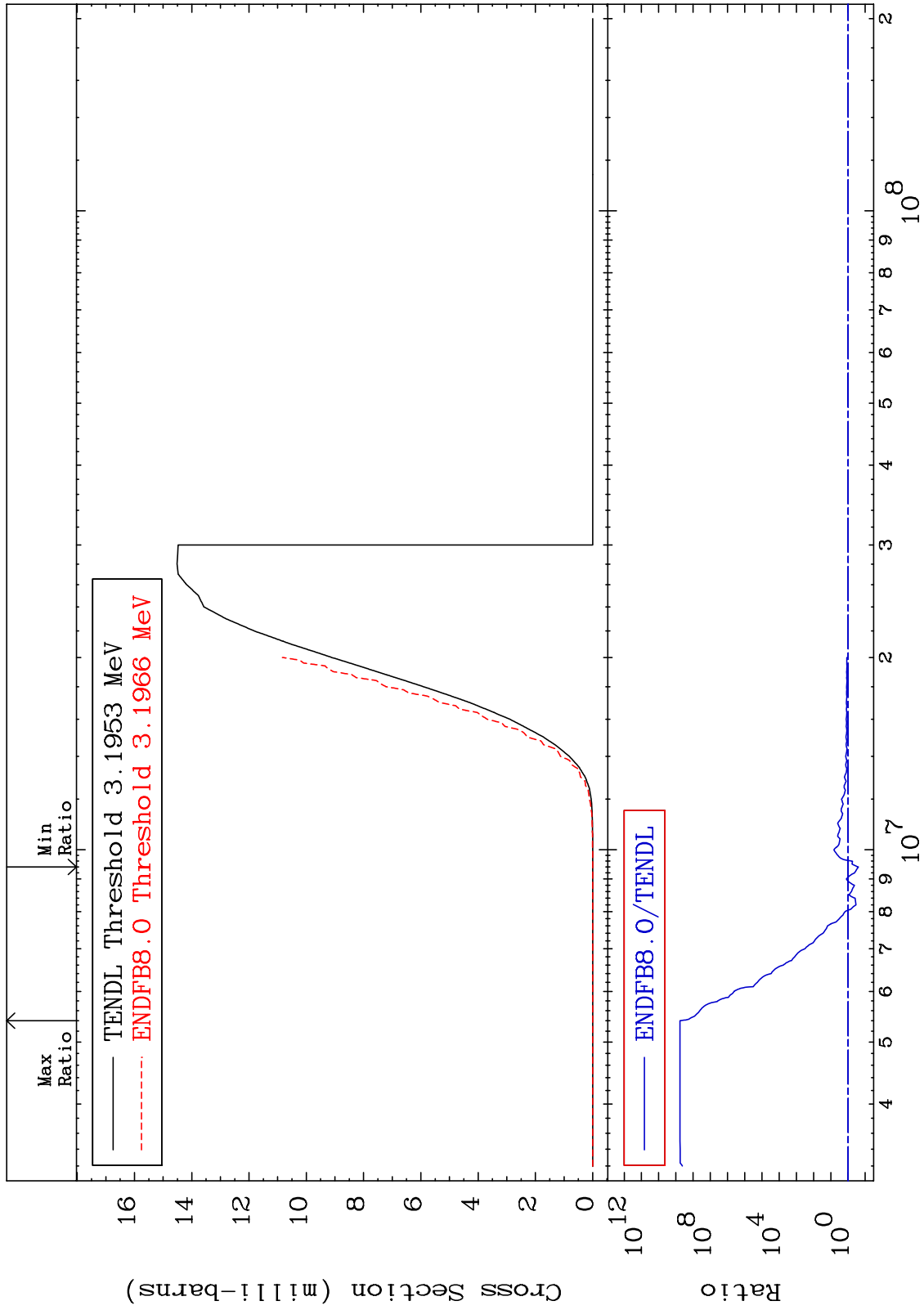
-58.39 To 236.7 %

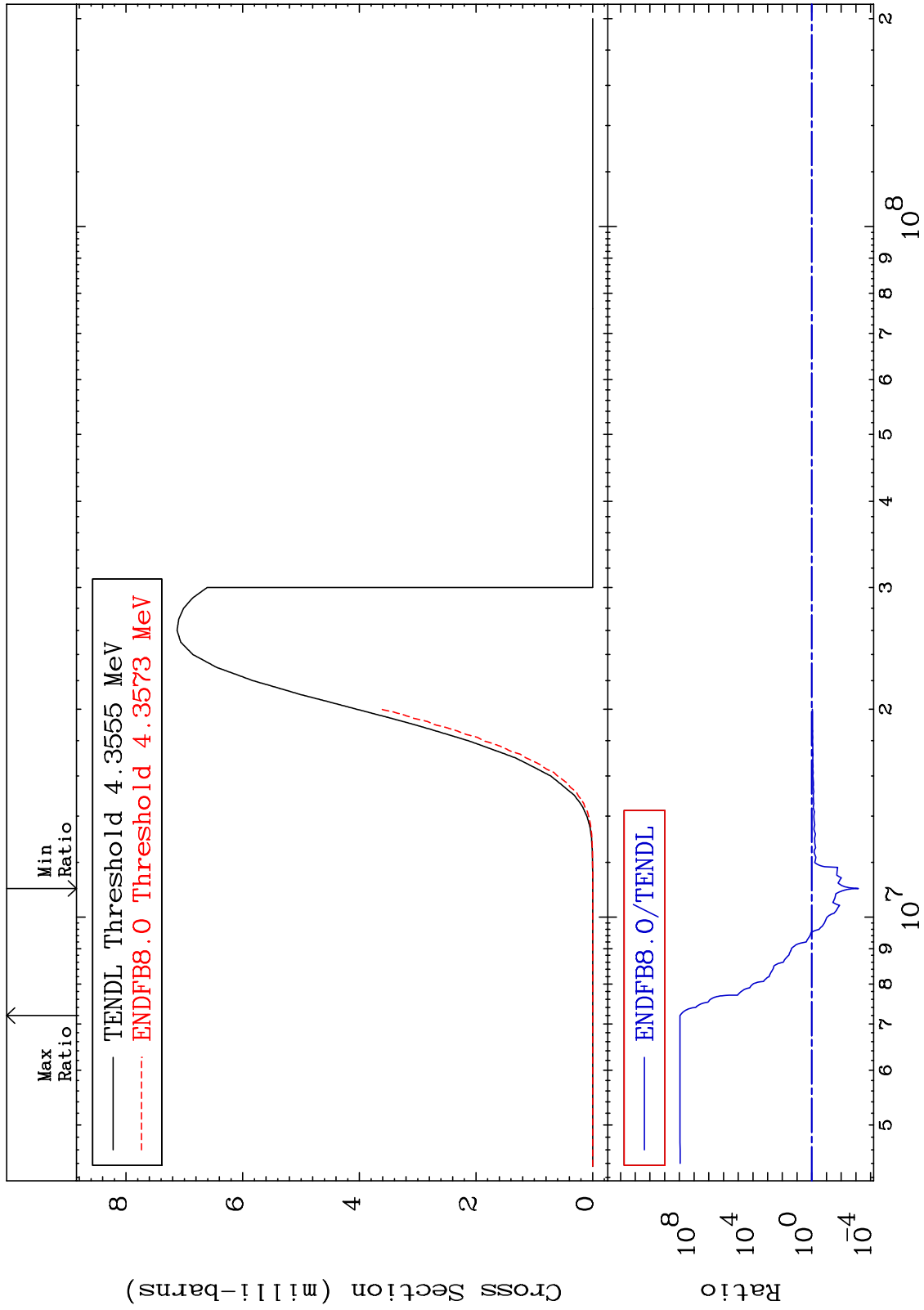


30

Incident Energy (eV)

75-Re-185





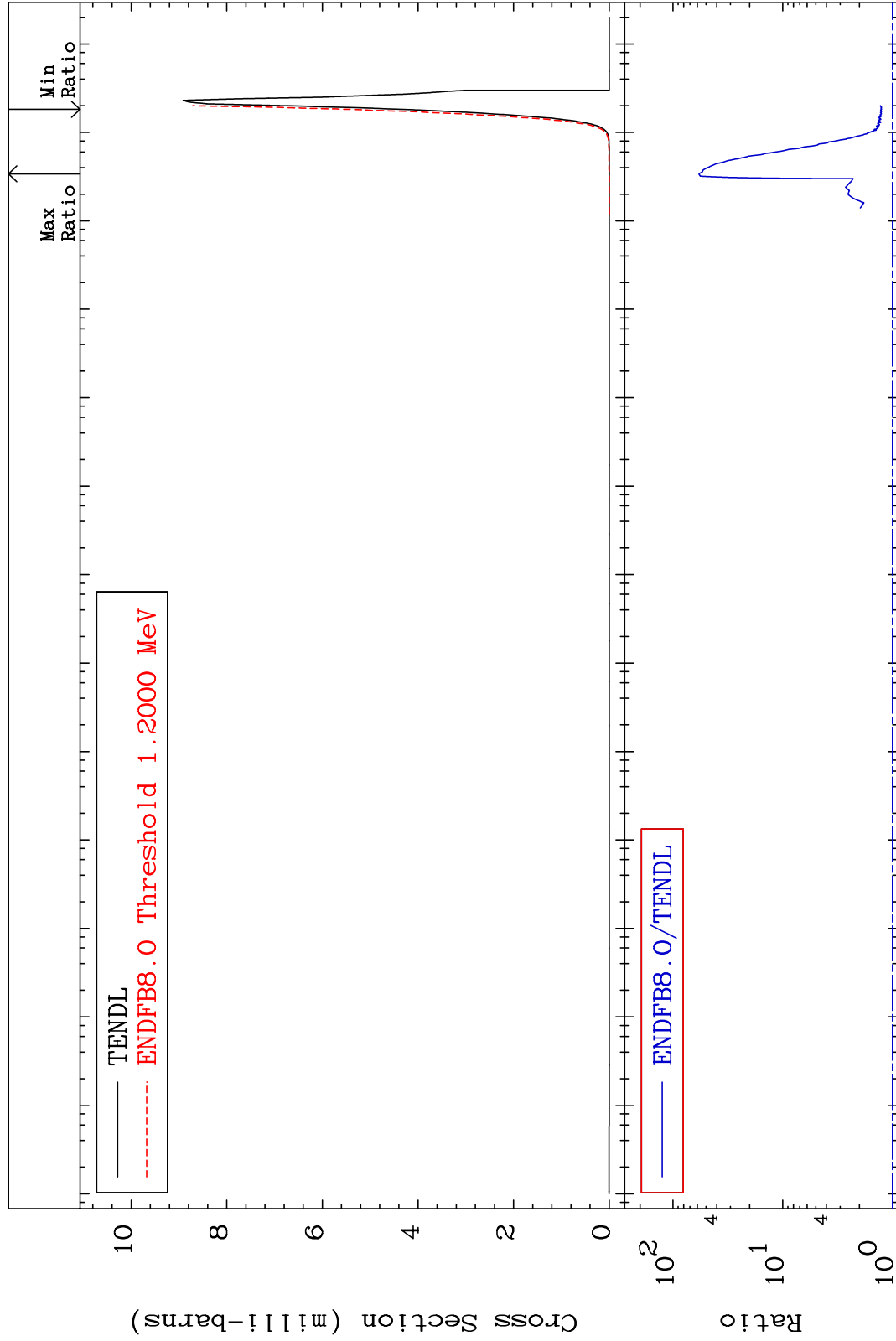
MAT 7525

(n, α)

Cross Section

75-Re-185

25.69 To 5729. %



Incident Energy (eV)

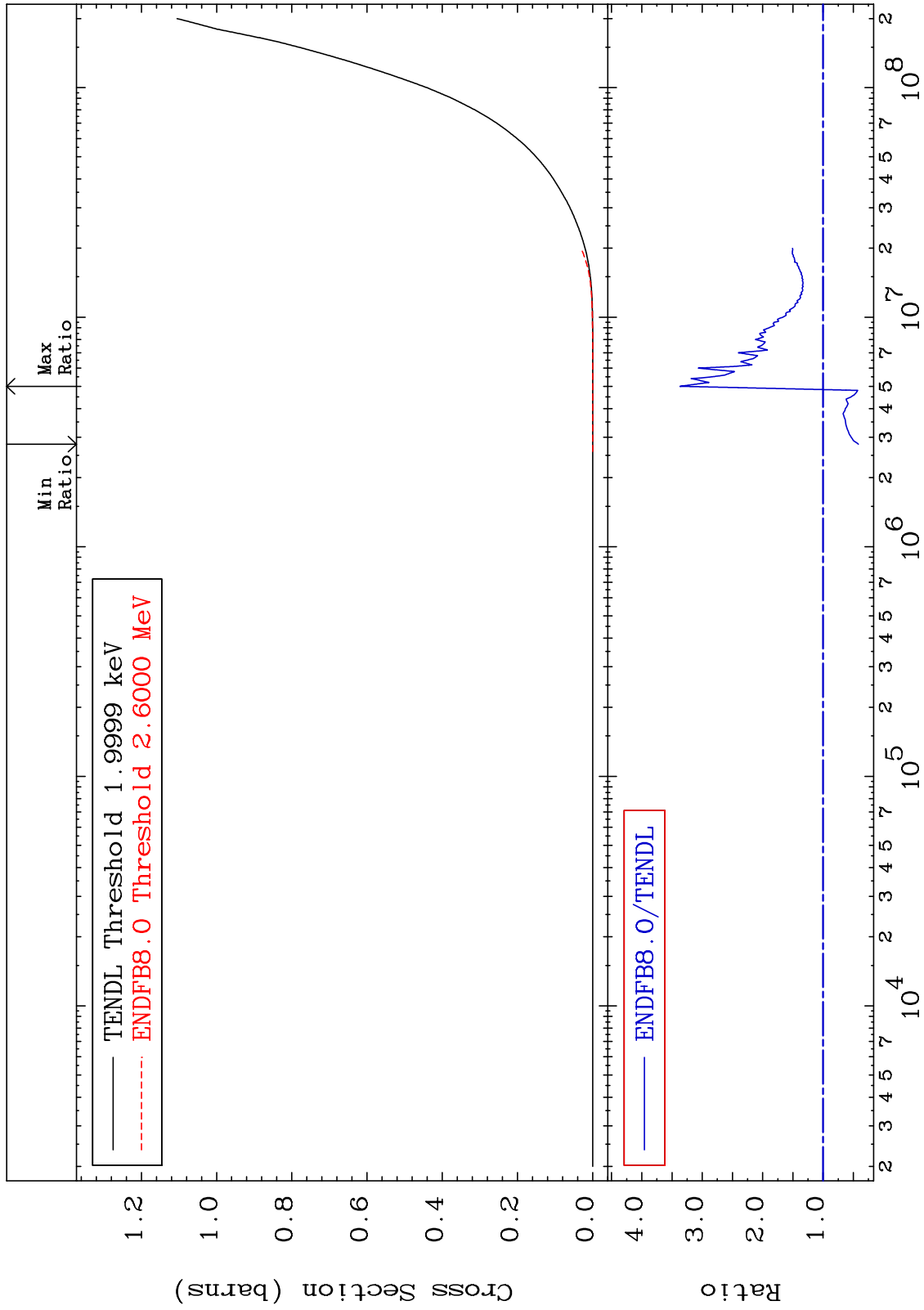
75-Re-185

33

MAT 7525

Hydrogen Production
Cross Section

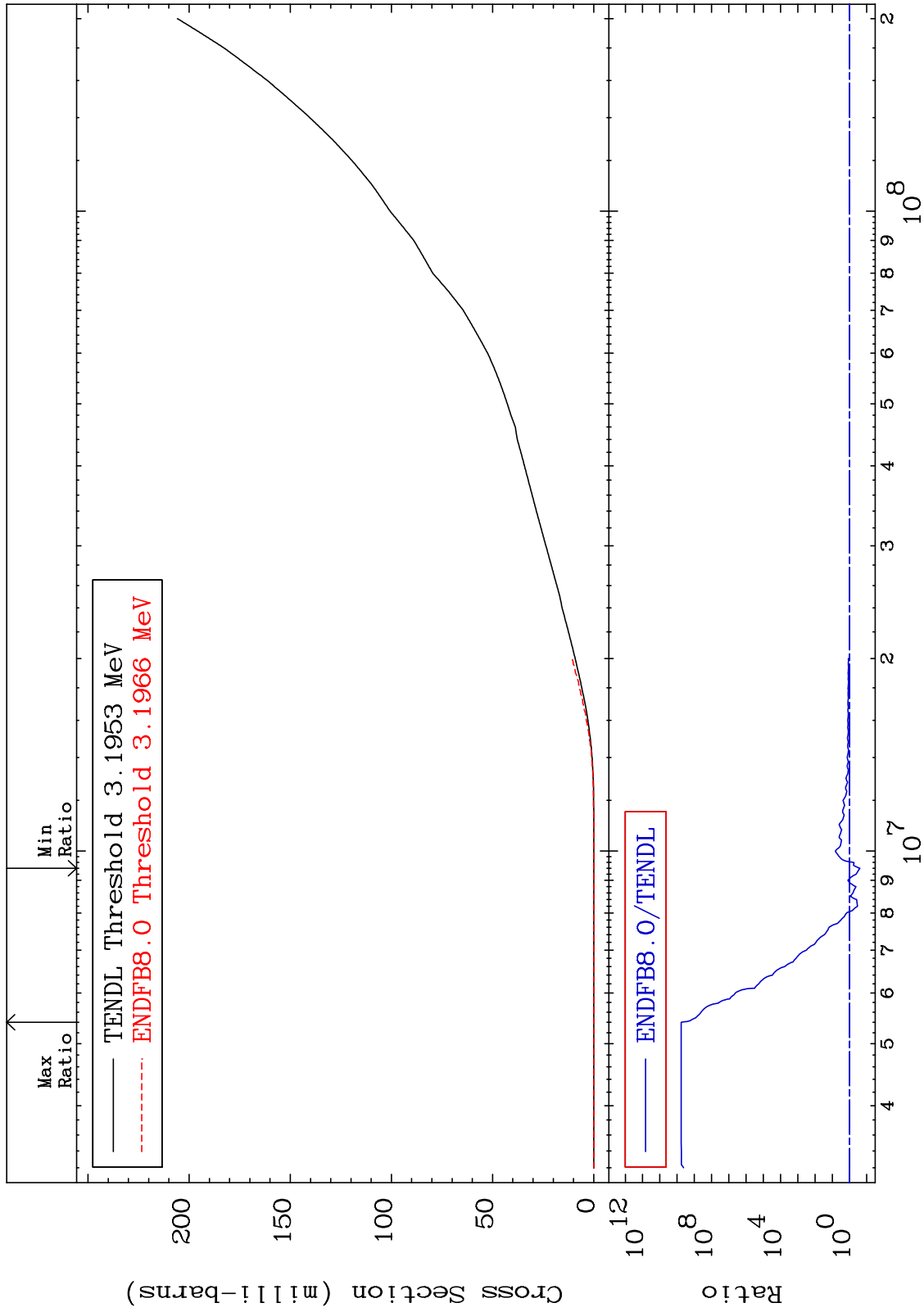
75-Re-185
-58.39 To 236.7 %

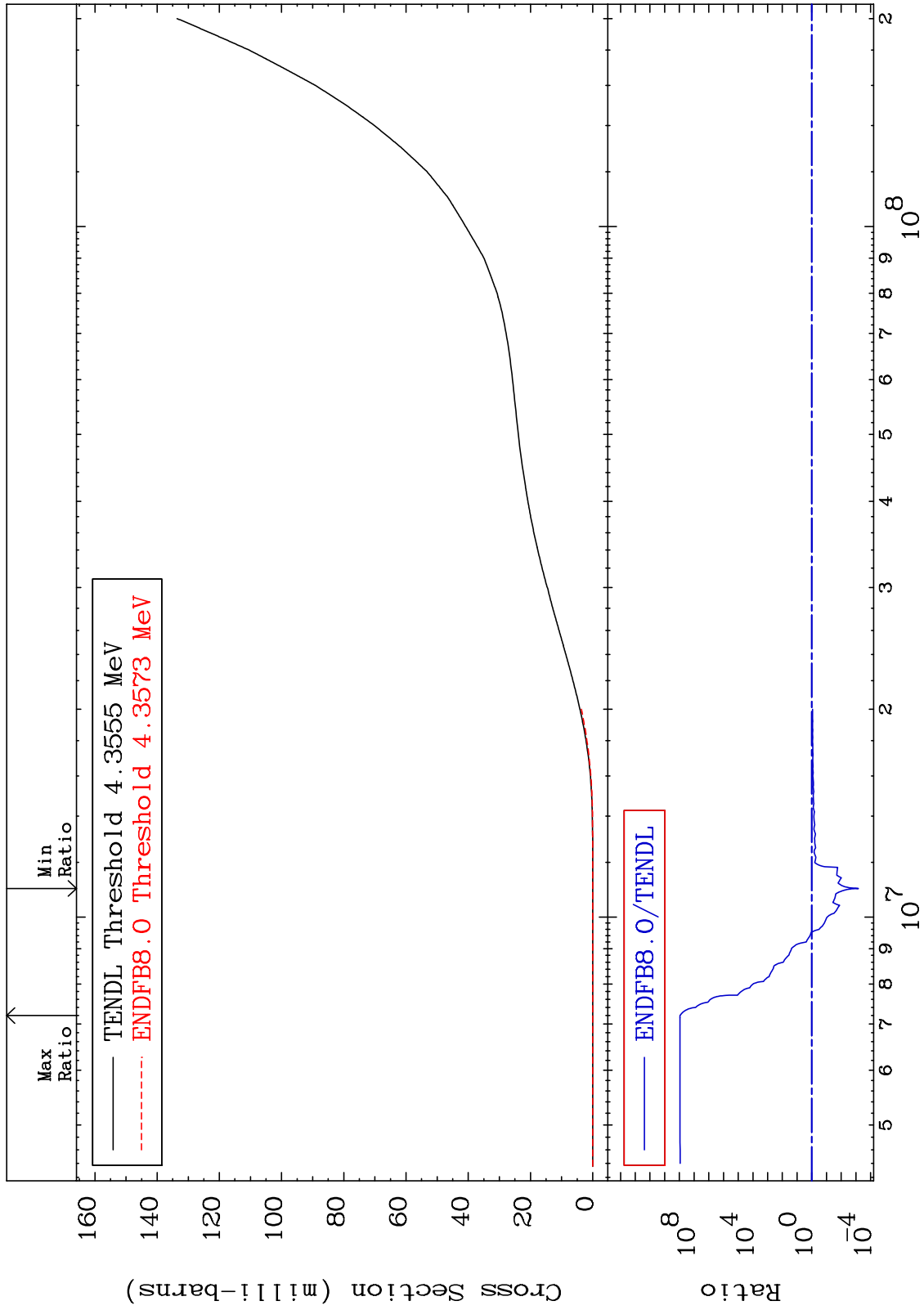


MAT 7525

Deuterium Production
Cross Section

75-Re-185
-75.13 To 9999. %

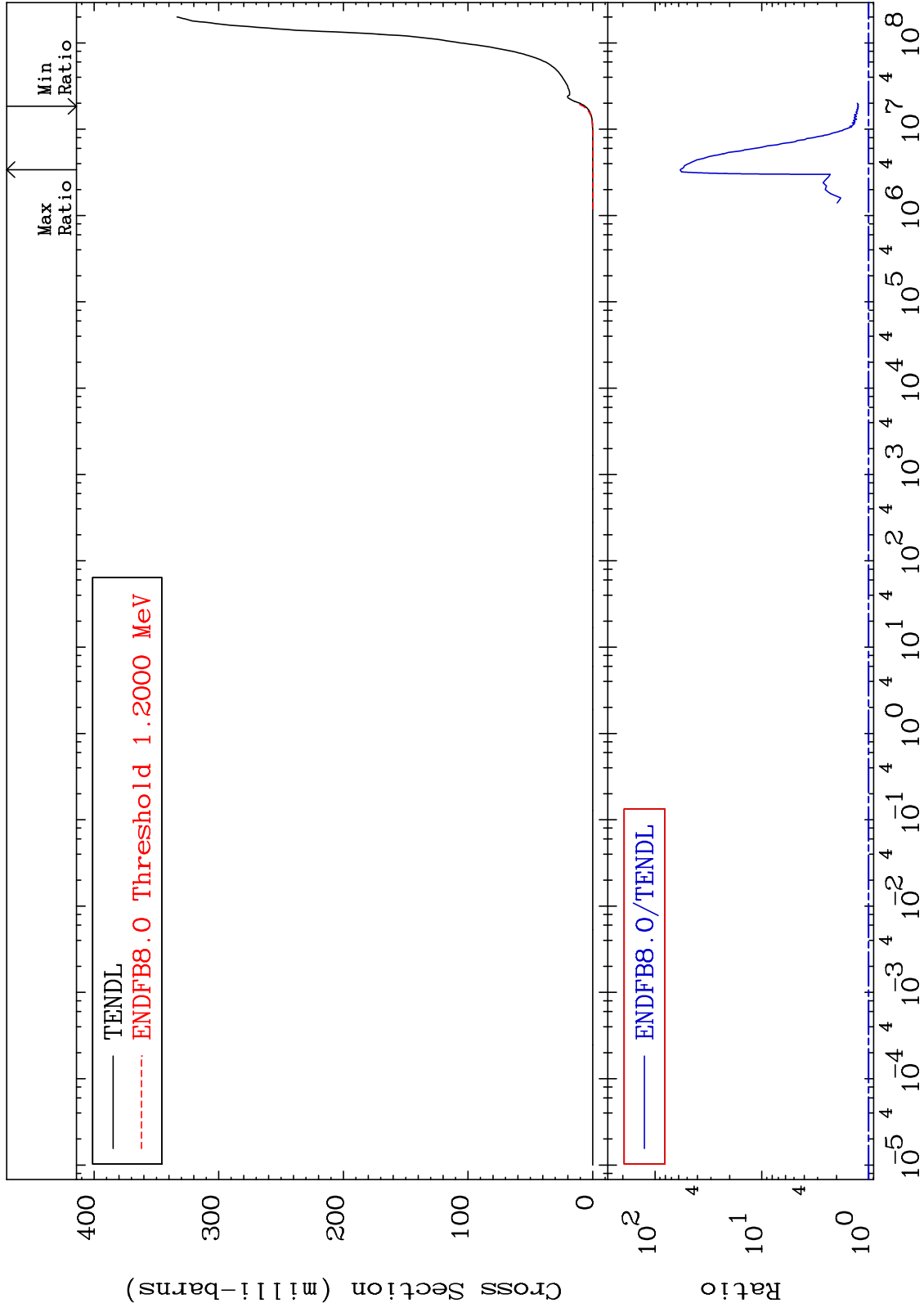




MAT 7525

He-4 Production
Cross Section

75-Re-185
24.62 To 5729. %



37

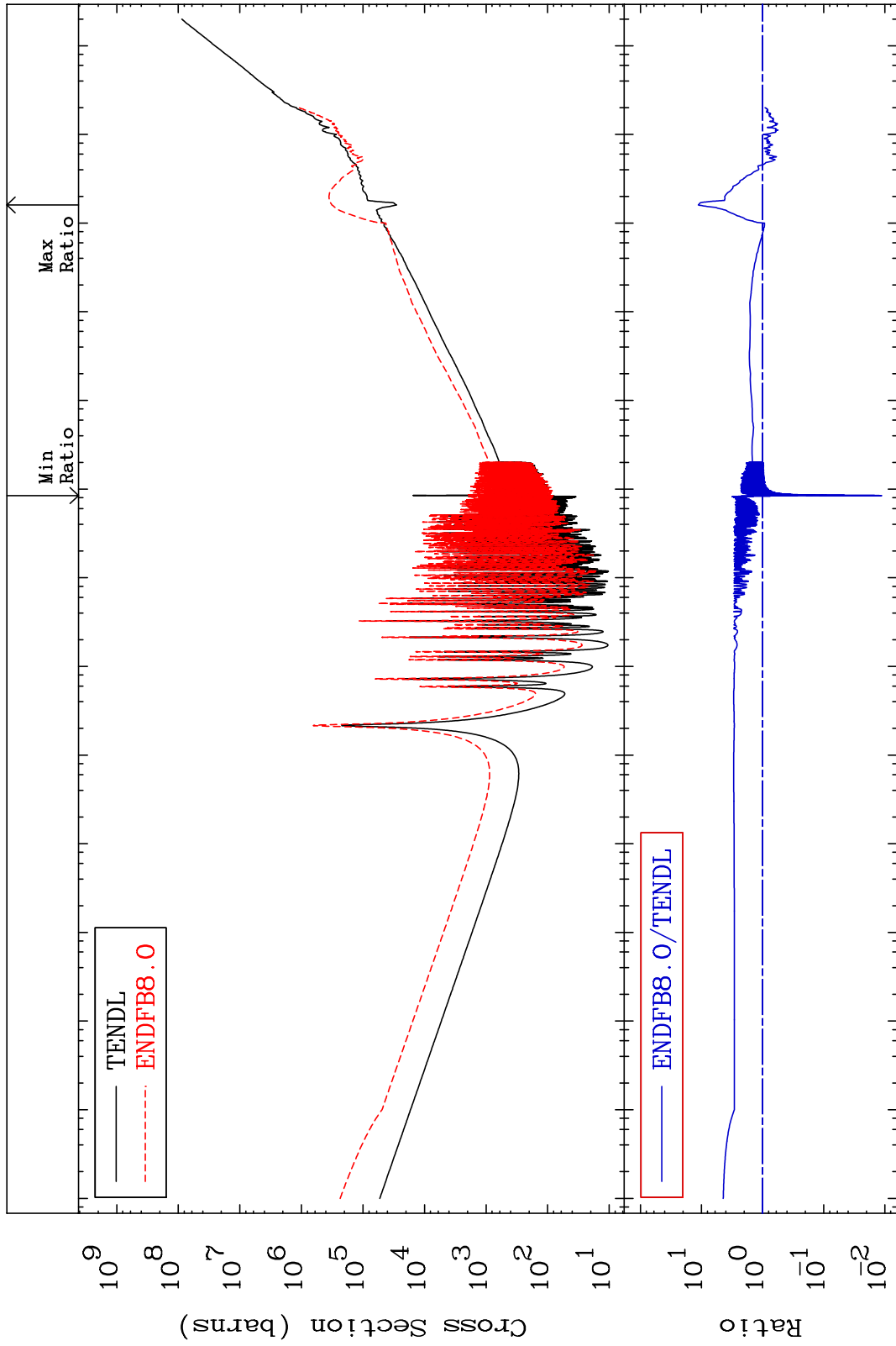
Incident Energy (eV)

75-Re-185

MAT 7525

Kerma total (eV-barns)
Cross Section

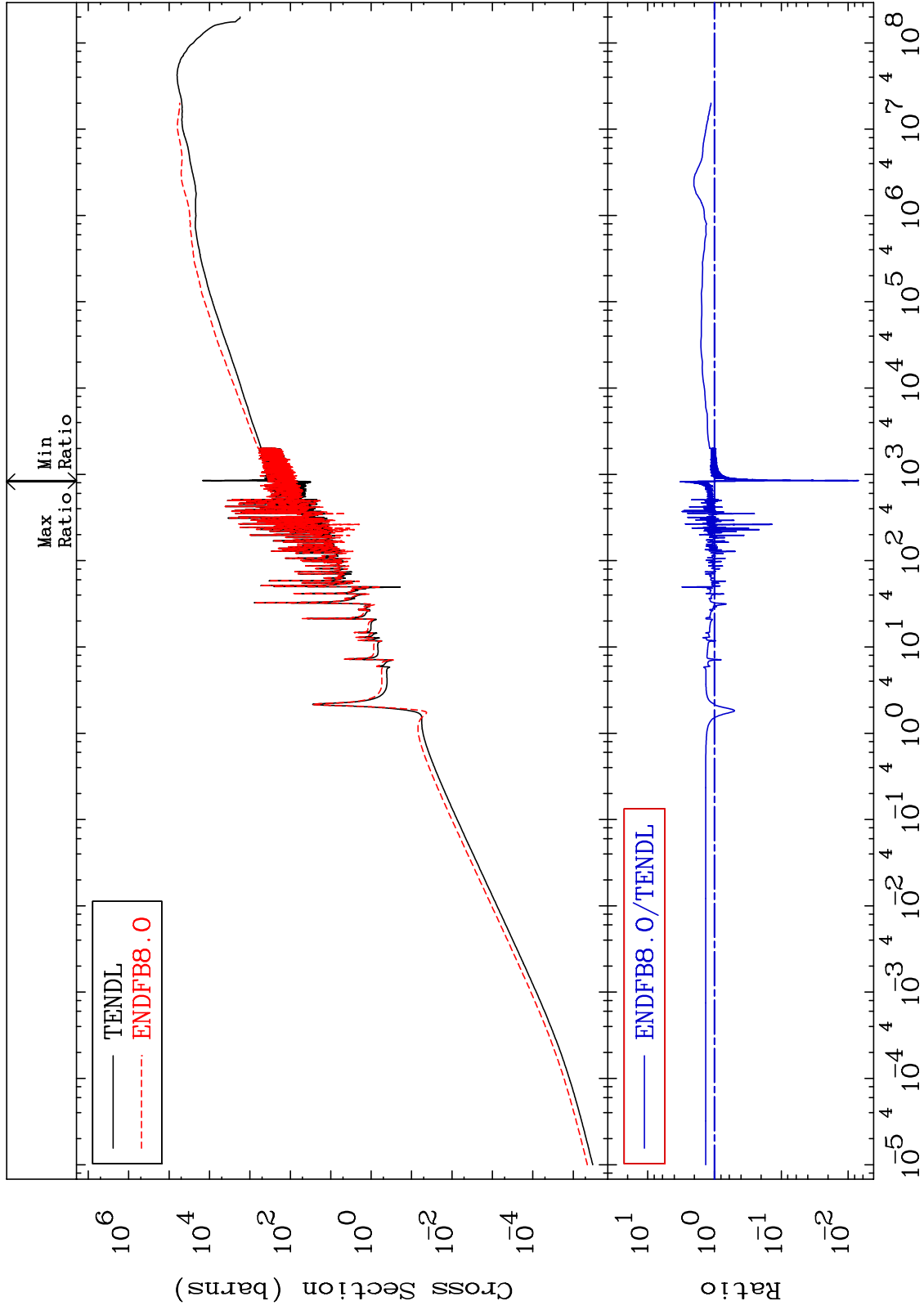
75-Re-185
-98.87 To 1026. %



MAT 7525

Kerma elastic
Cross Section

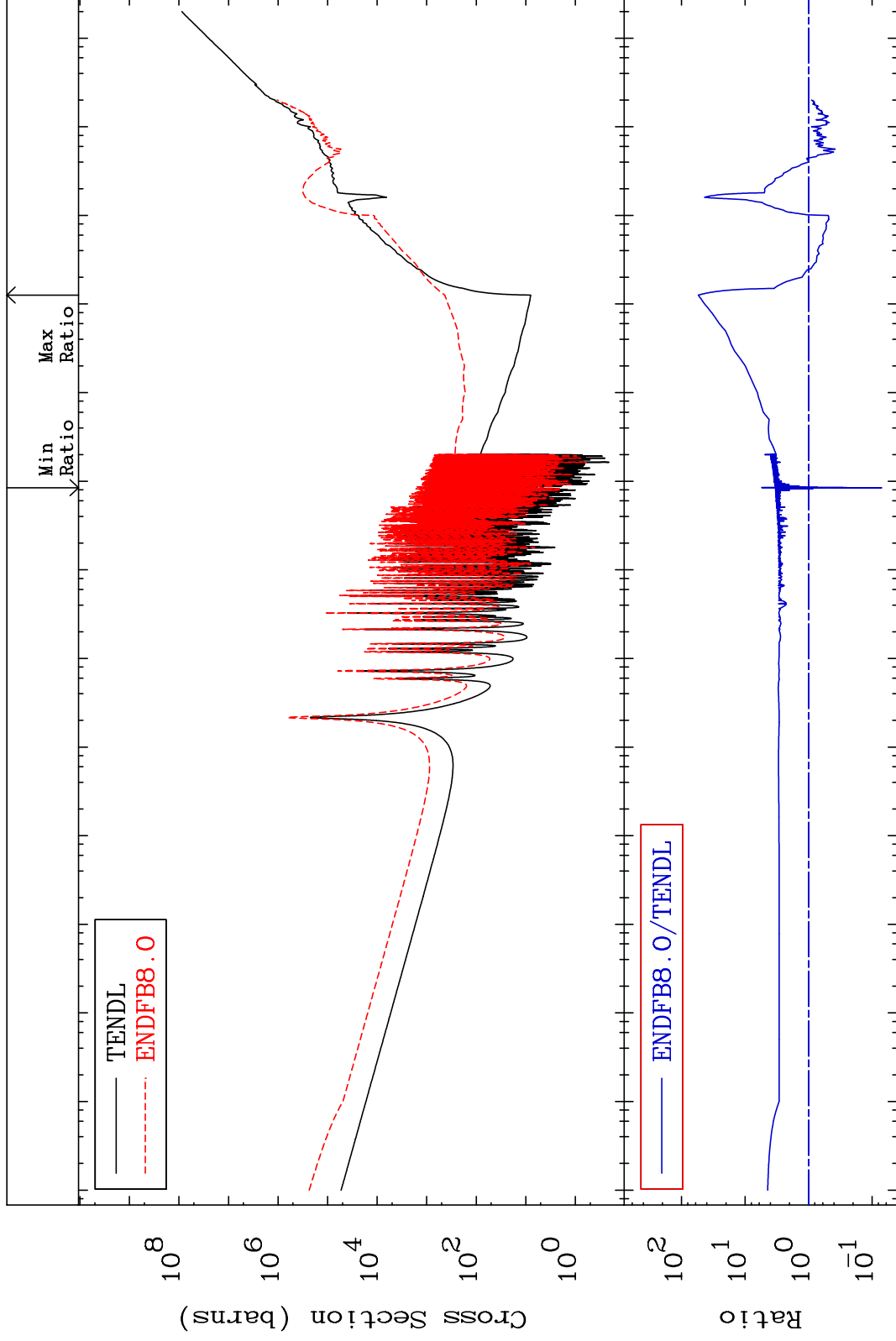
75-Re-185
-99.30 To 228.4 %



MAT 7525

Kerma non-elastic (all but mt2)
Cross Section

75-Re-185
-92.88 To 5343. %



40

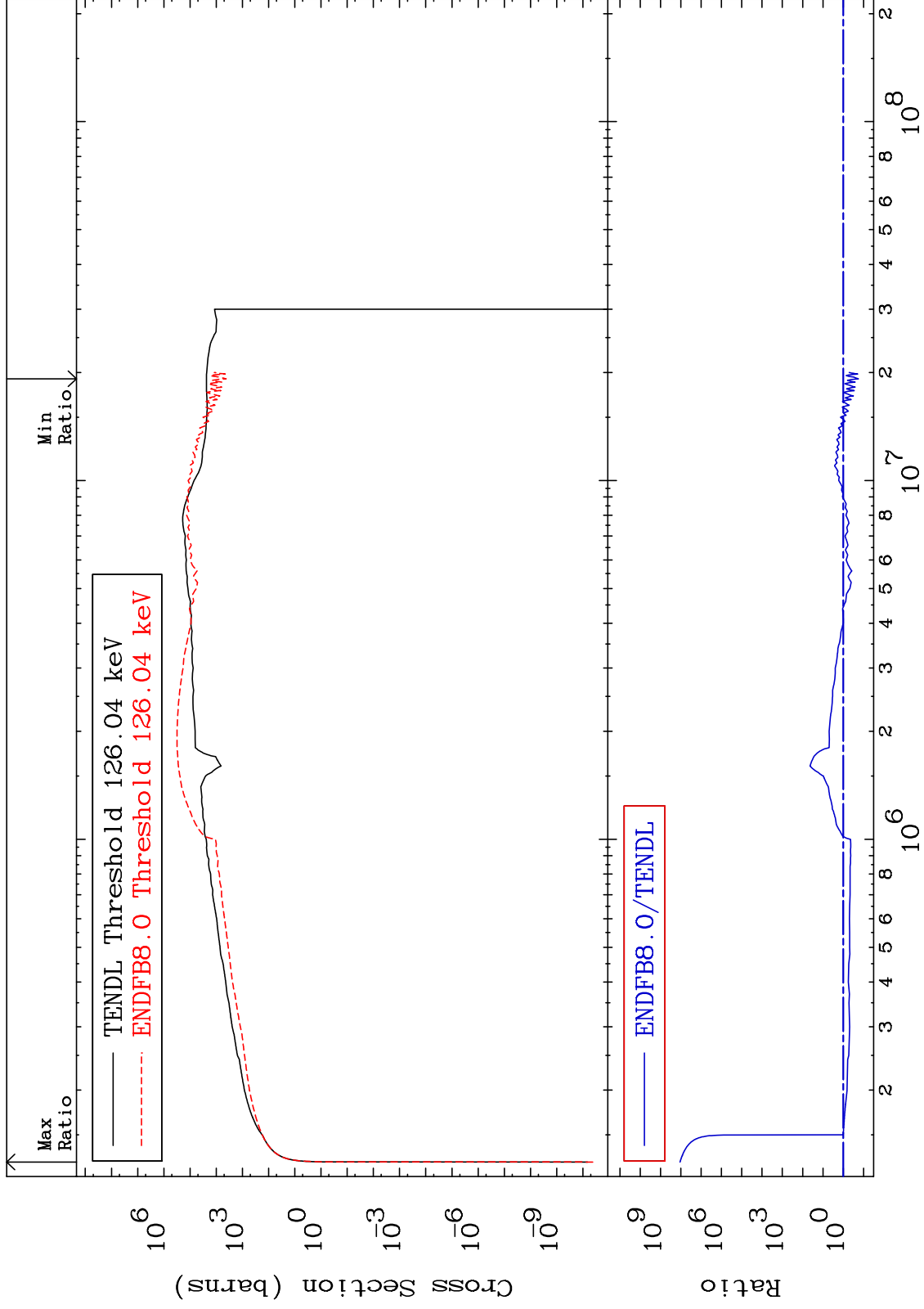
Incident Energy (eV)

75-Re-185

MAT 7525

Kerma inelastic (mt51-91)
Cross Section

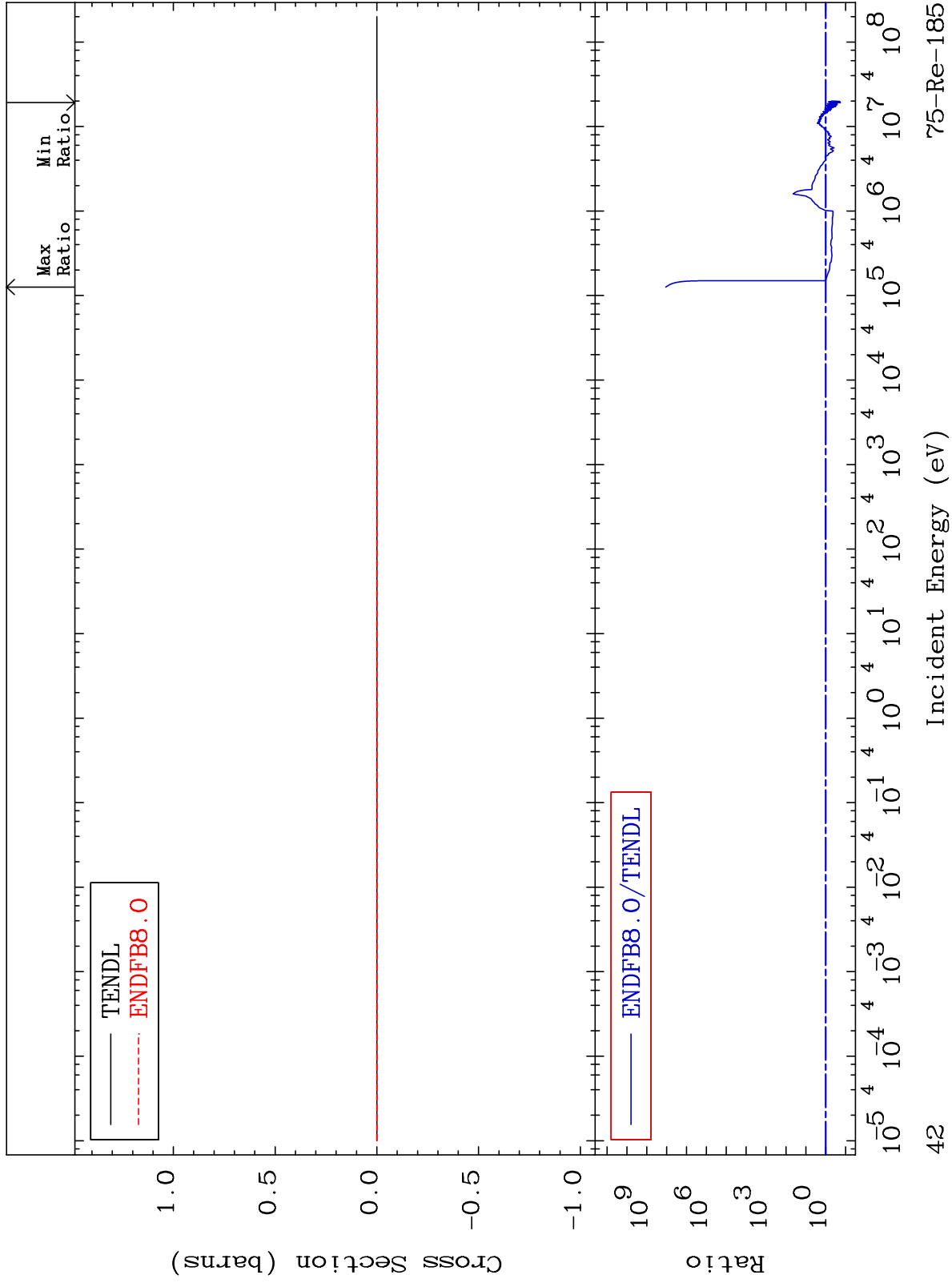
75-Re-185
-82.10 To 9999. %



MAT 7525

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

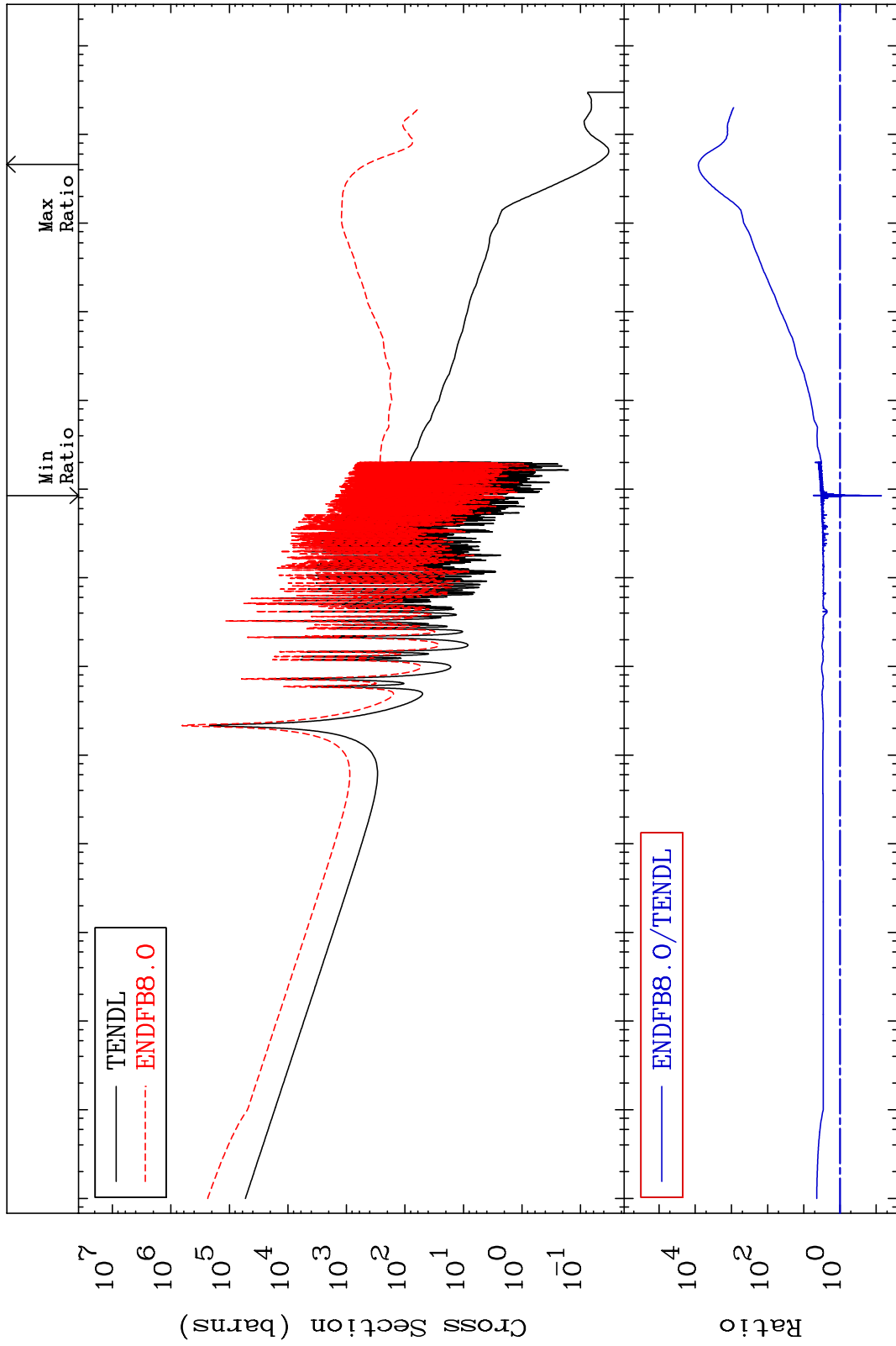
75-Re-185
-82.10 To 9999. %



MAT 7525

Kerma capture (mt102)
Cross Section

75-Re-185
-92.88 To 9999. %



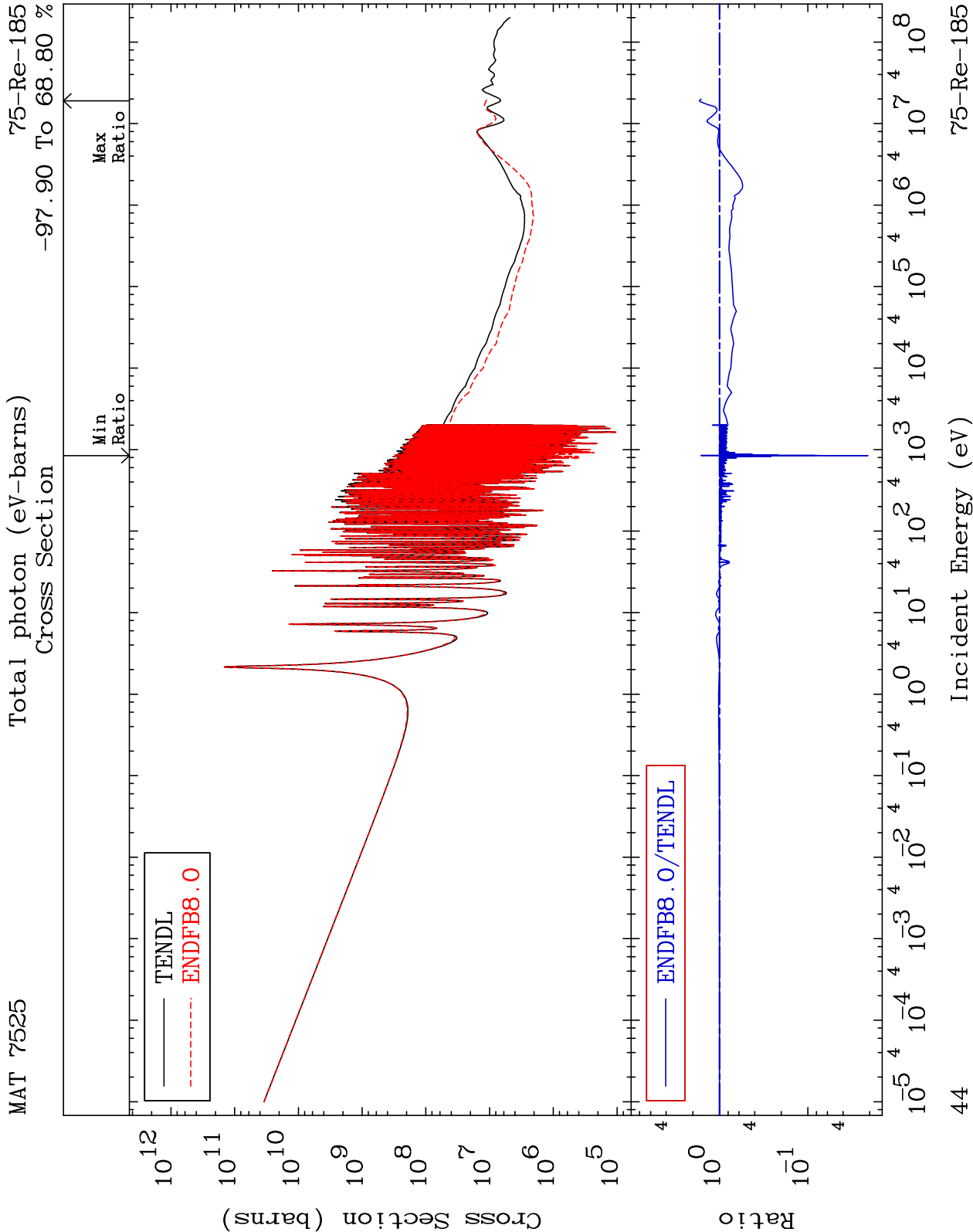
Min Ratio

Max Ratio

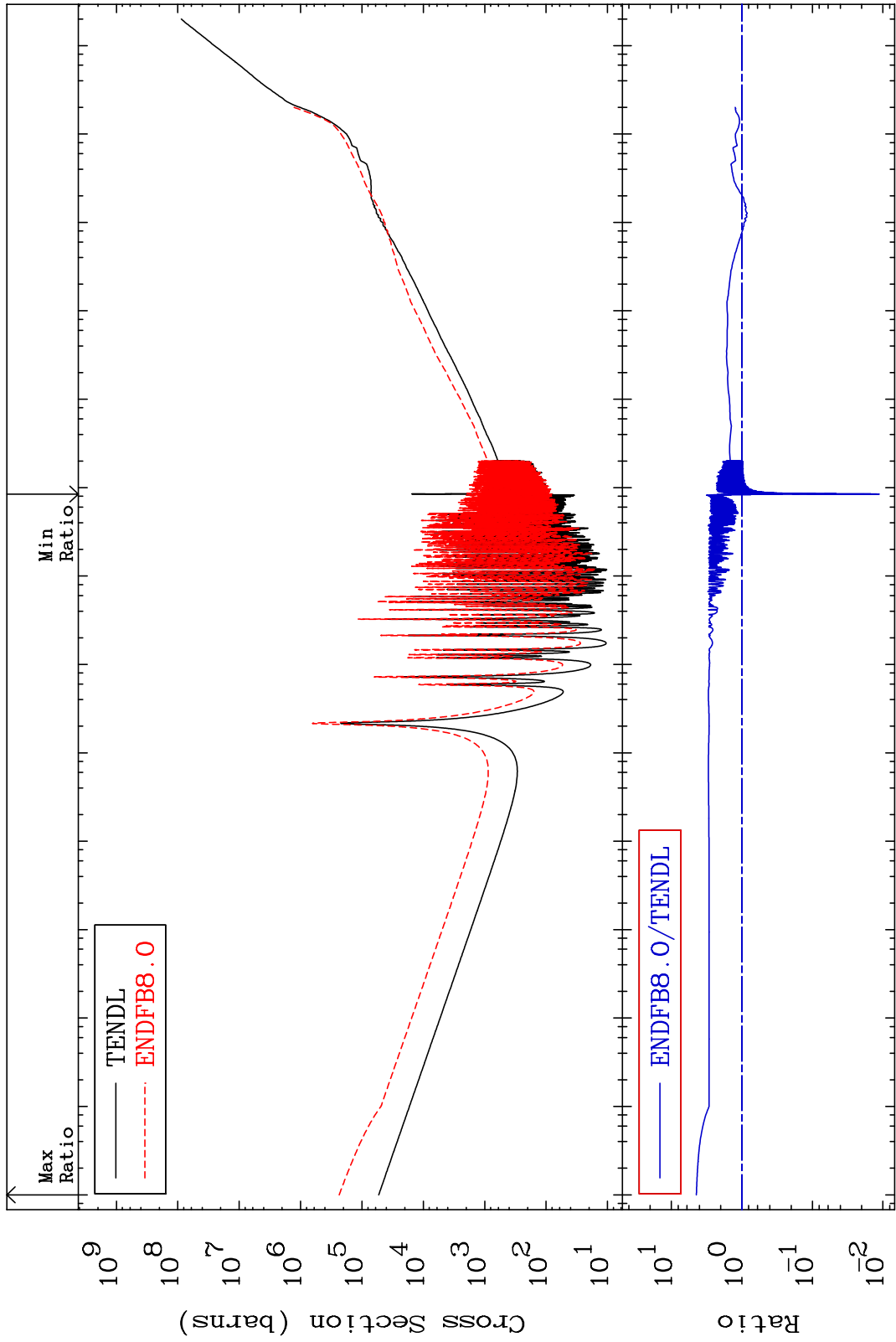
— TENDL
- - - ENDFB8.0

— ENDFB8.0/TENDL

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



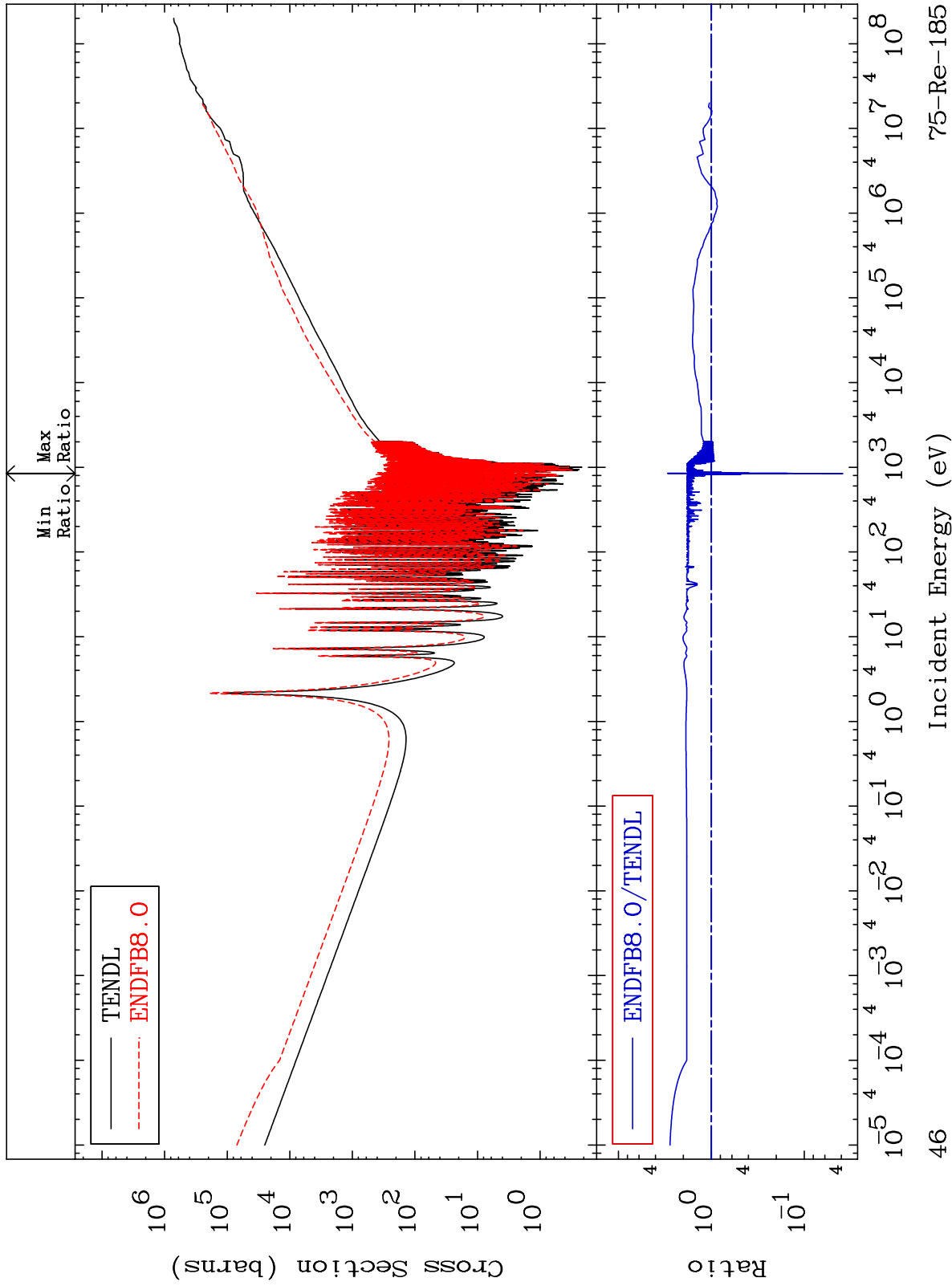
MAT 7525 Total kinematic kerma (high limit) 75-Re-185
Cross Section -98.87 To 341.3 %



MAT 7525

Dpa total (eV-barns)
Cross Section

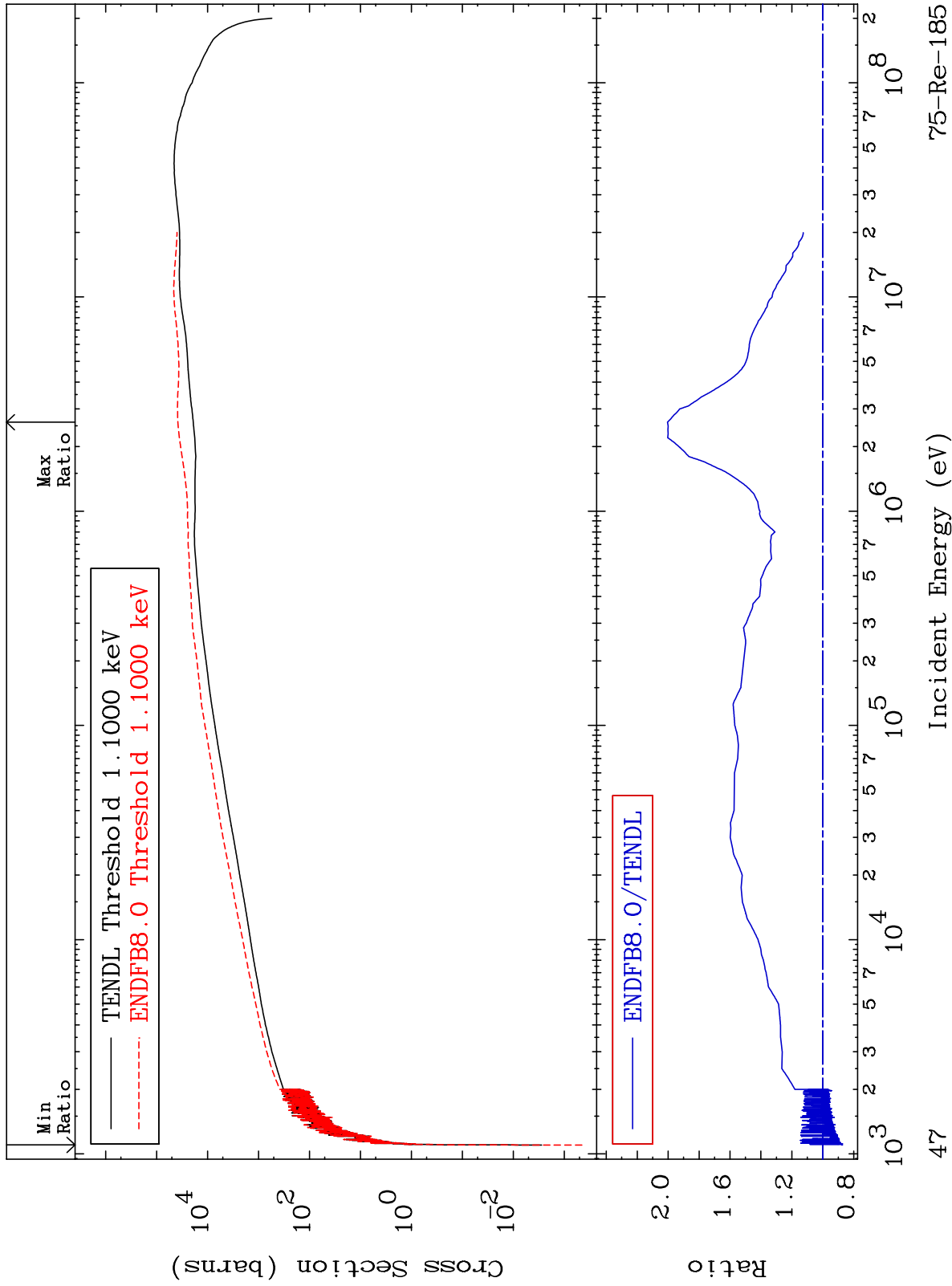
75-Re-185
-96.14 To 196.3 %



MAT 7525

Dpa elastic (mt2)
Cross Section

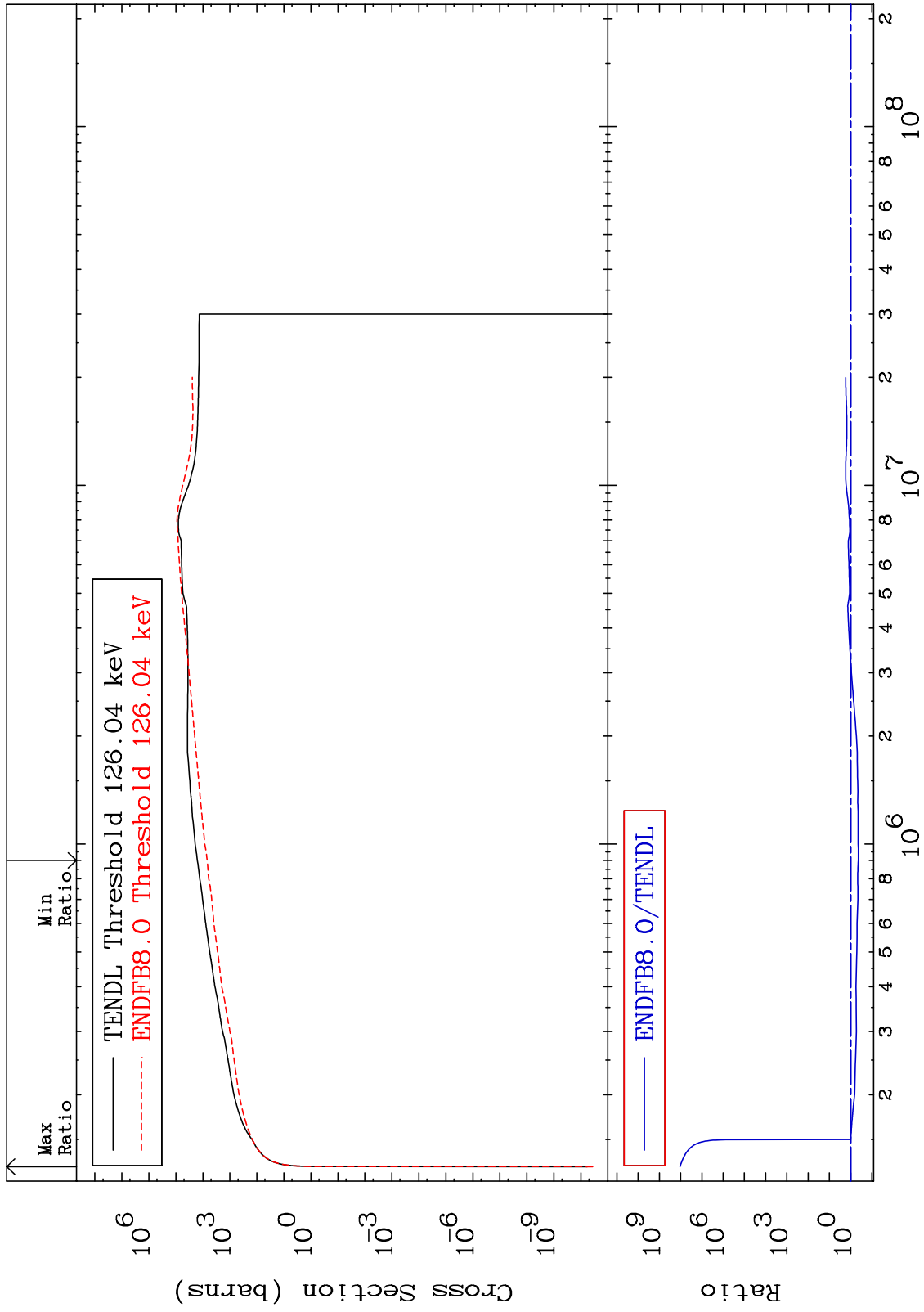
75-Re-185
-12.85 To 100.4 %



MAT 7525

Dpa inelastic (mt51-91)
Cross Section

75-Re-185
-56.98 To 9999. %



MAT 7525

Dpa disappearance (mt102 -120)
Cross Section

75-Re-185
-96.14 To 1268. %

