

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

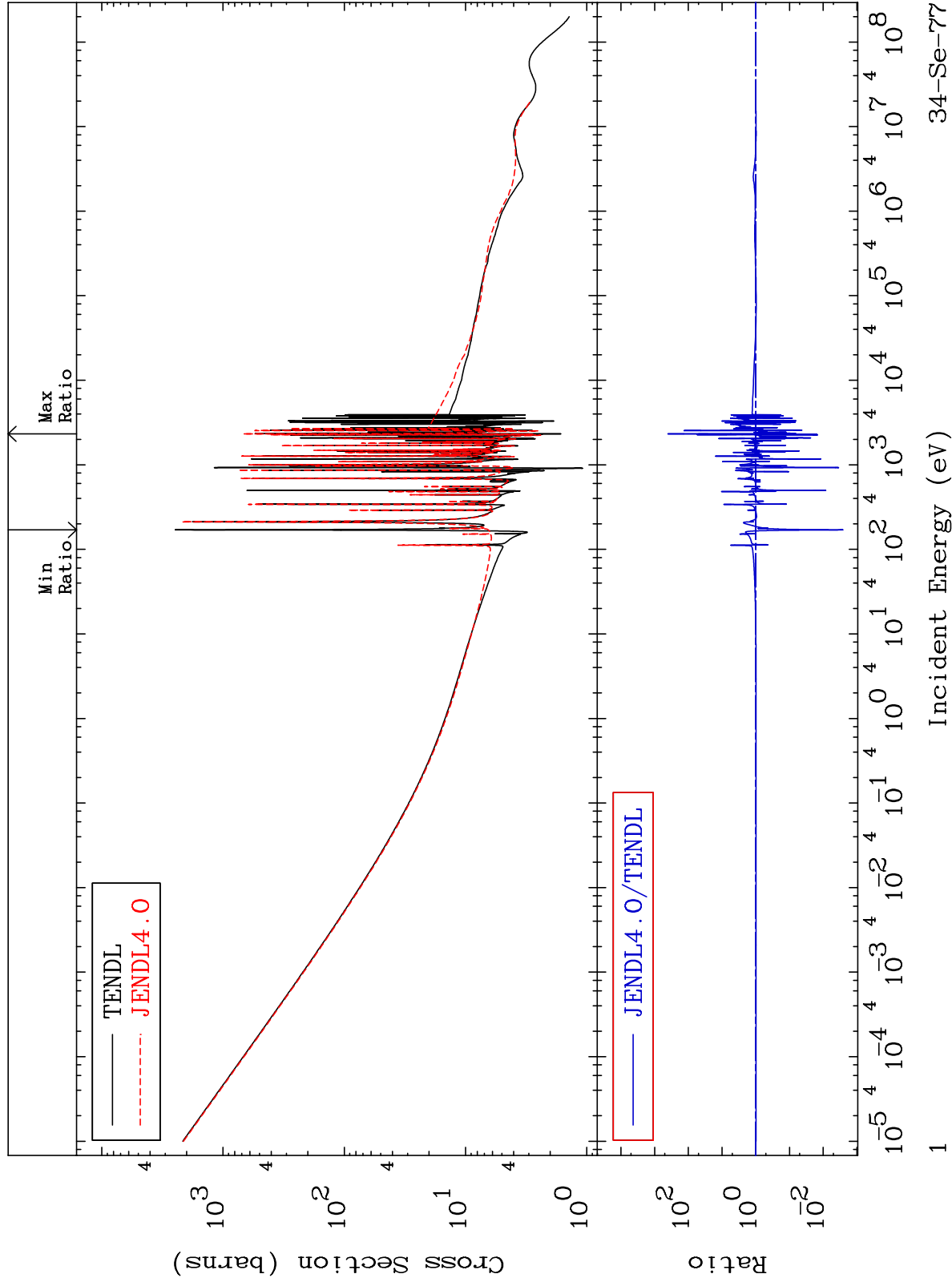
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 3434

Total
Cross Section

34-Se-77
-99.74 To 9999. %

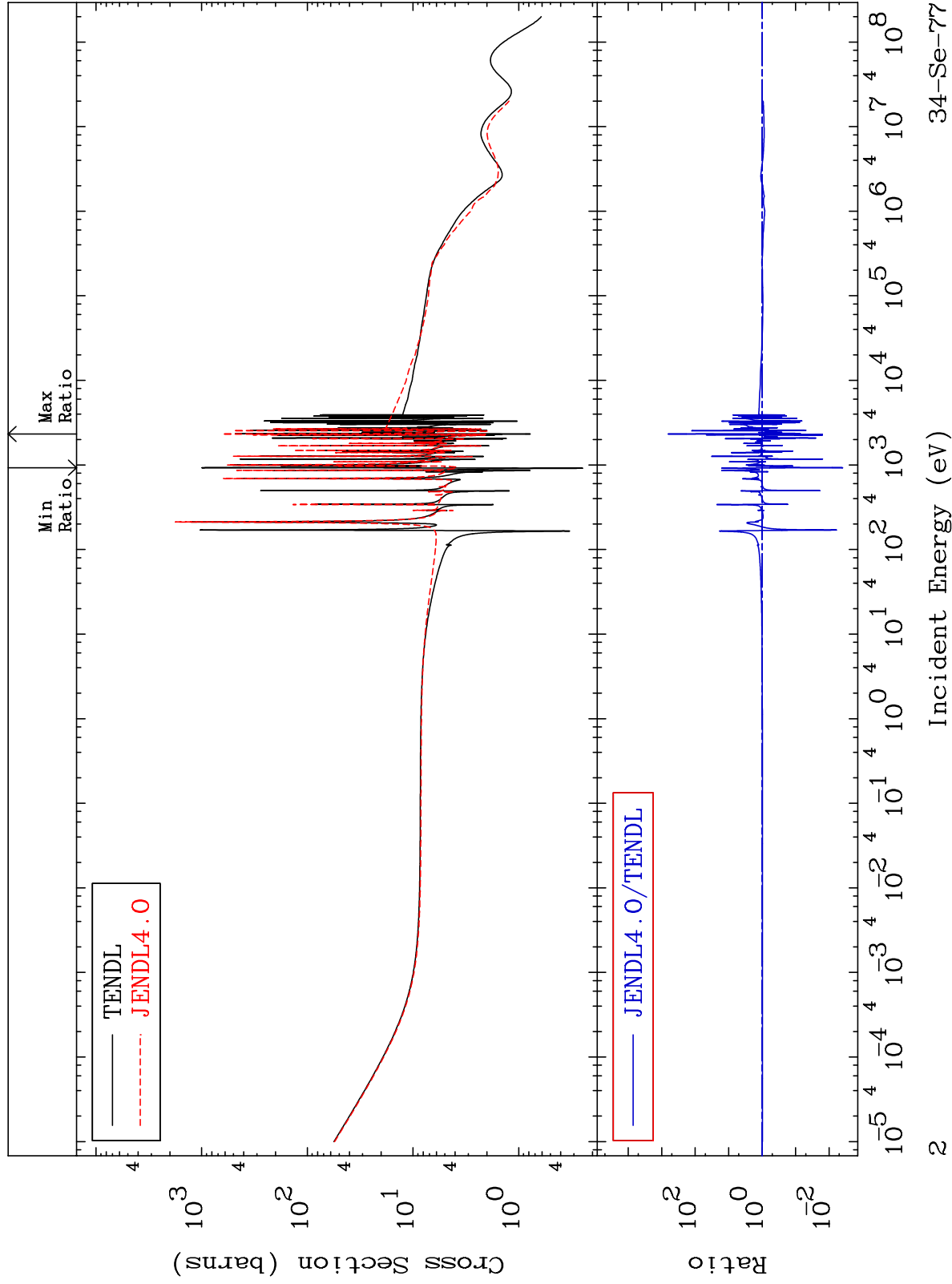


34-Se-77

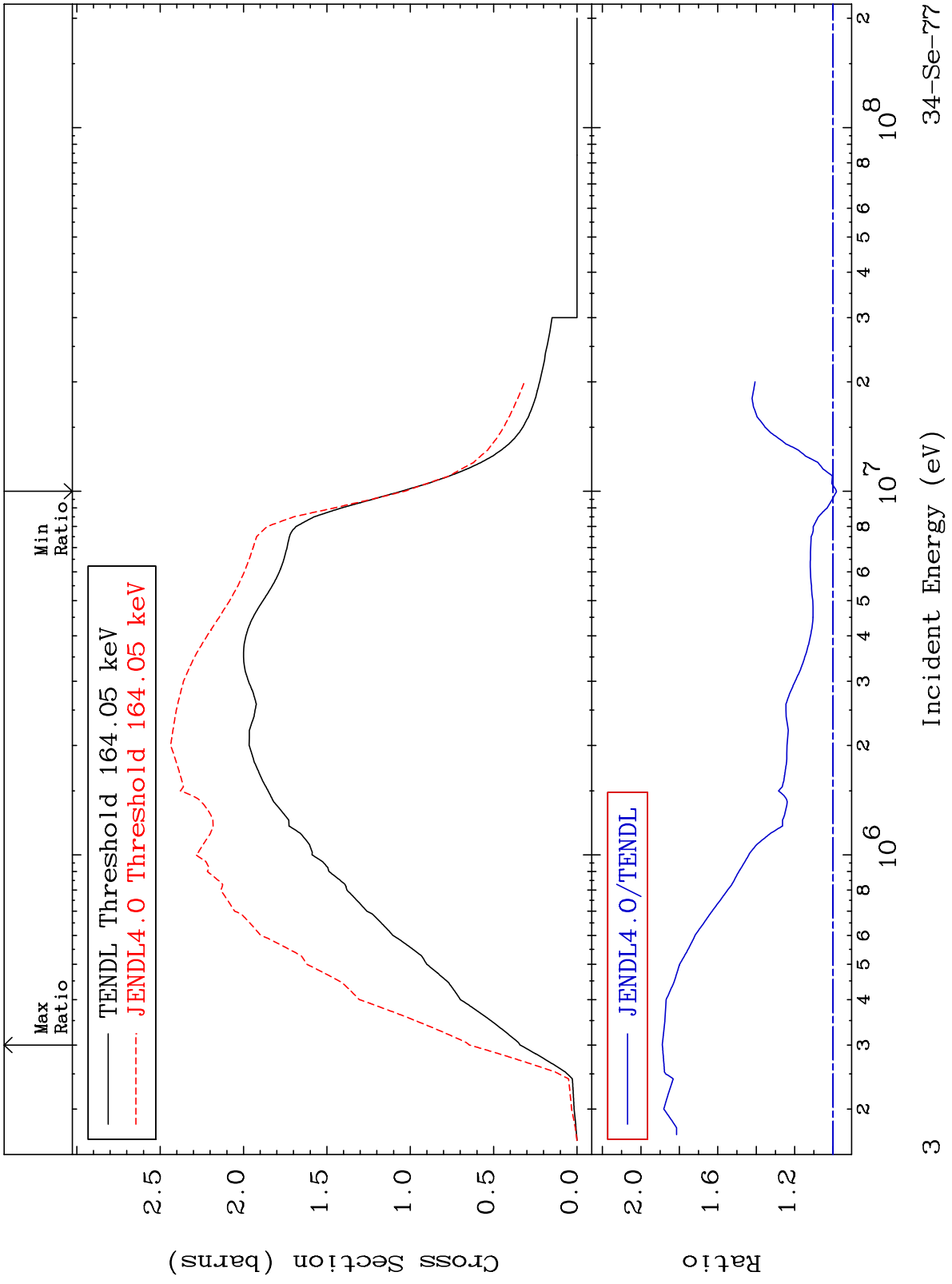
MAT 3434

Elastic
Cross Section

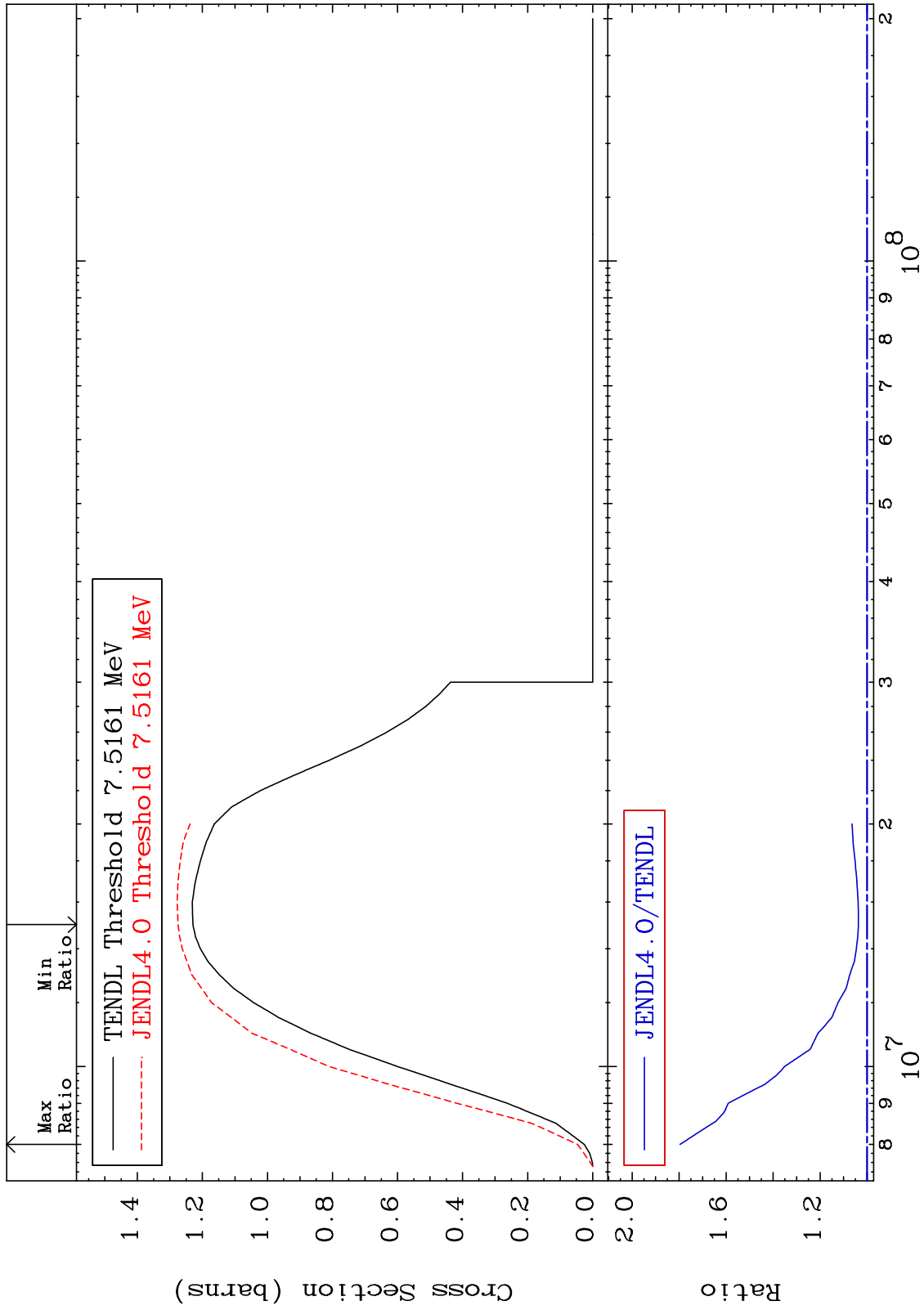
34-Se-77
-99.61 To 9999. %



34-Se-77



MAT 3434 (n,2n) Cross Section 34-Se-77 3.704 To 79.61 %



4 34-Se-77 Incident Energy (eV)

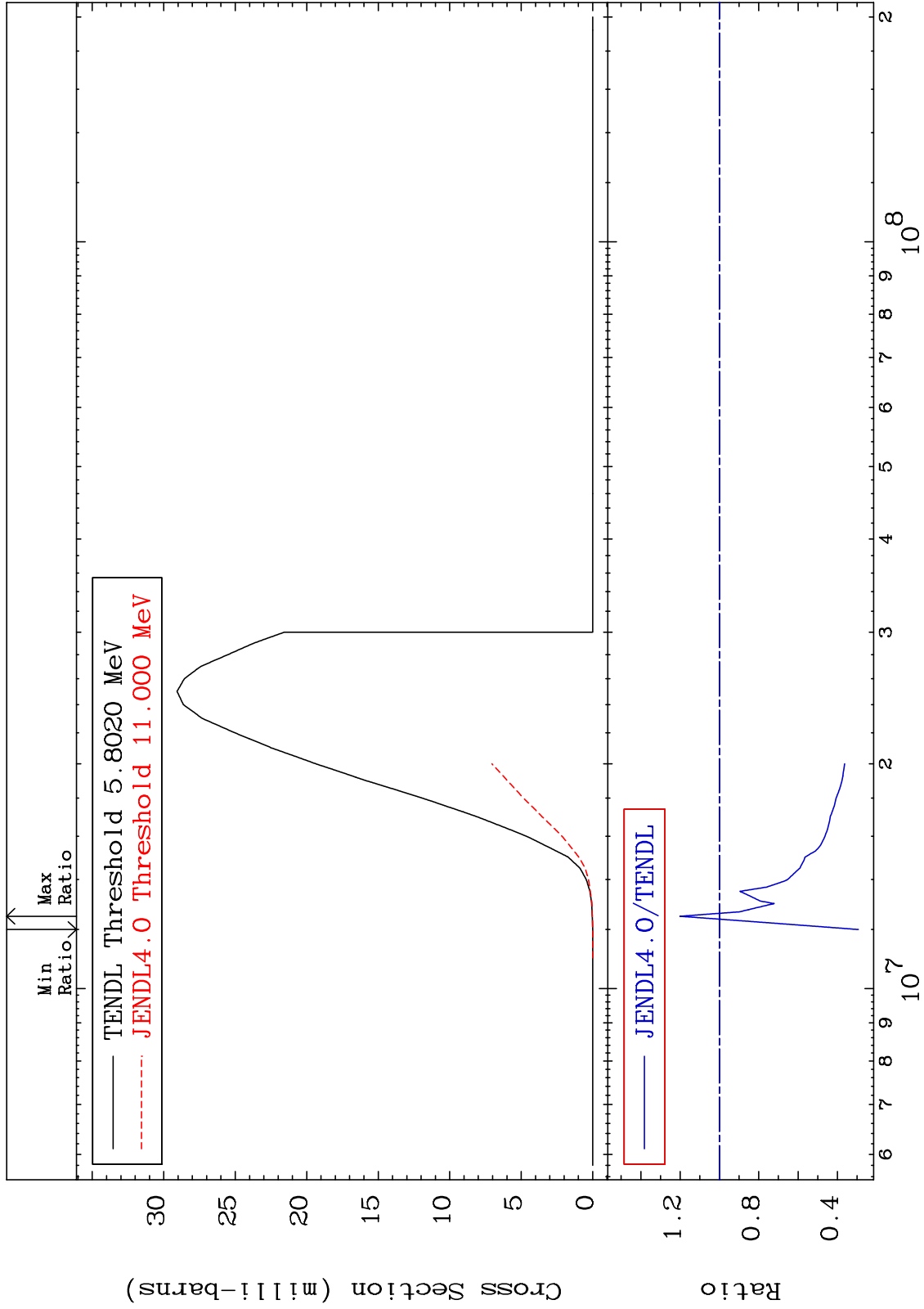
MAT 3434

(n, n') α

34-Se-77

Cross Section

-70.69 To 20.06 %



5

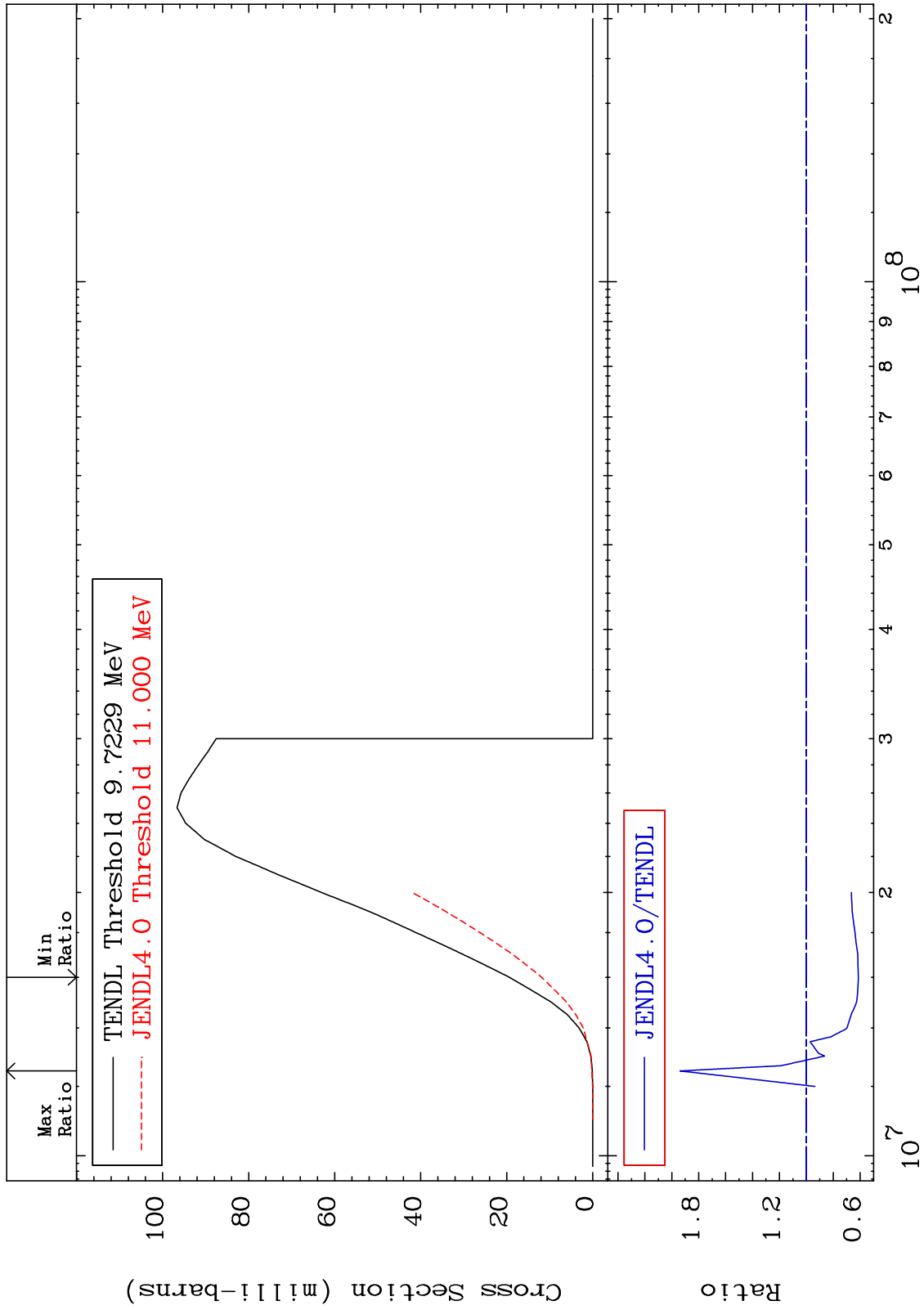
Incident Energy (eV)

34-Se-77

MAT 3434

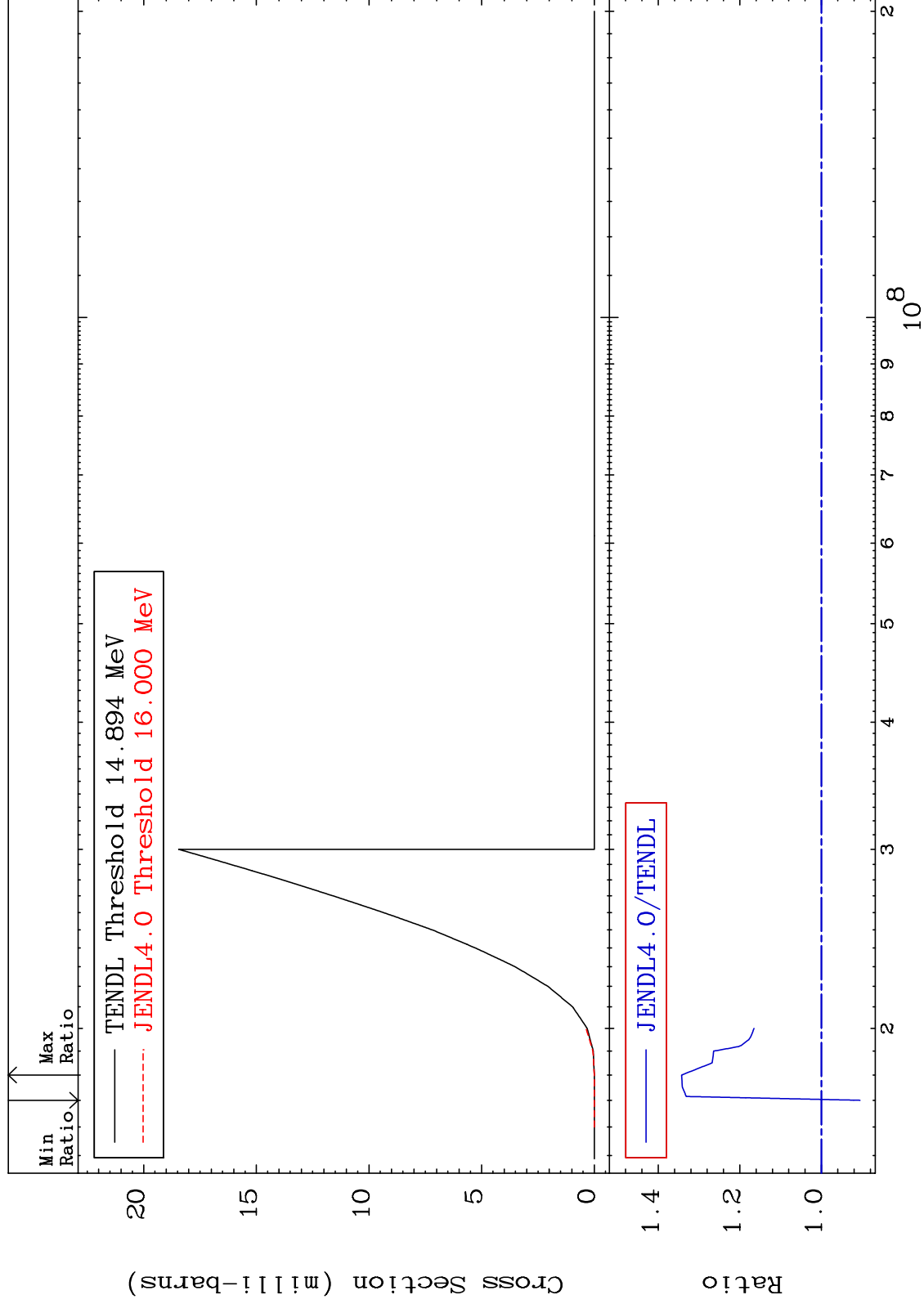
(n,n') p
Cross Section

³⁴Se-77
-38.76 To 93.88 %

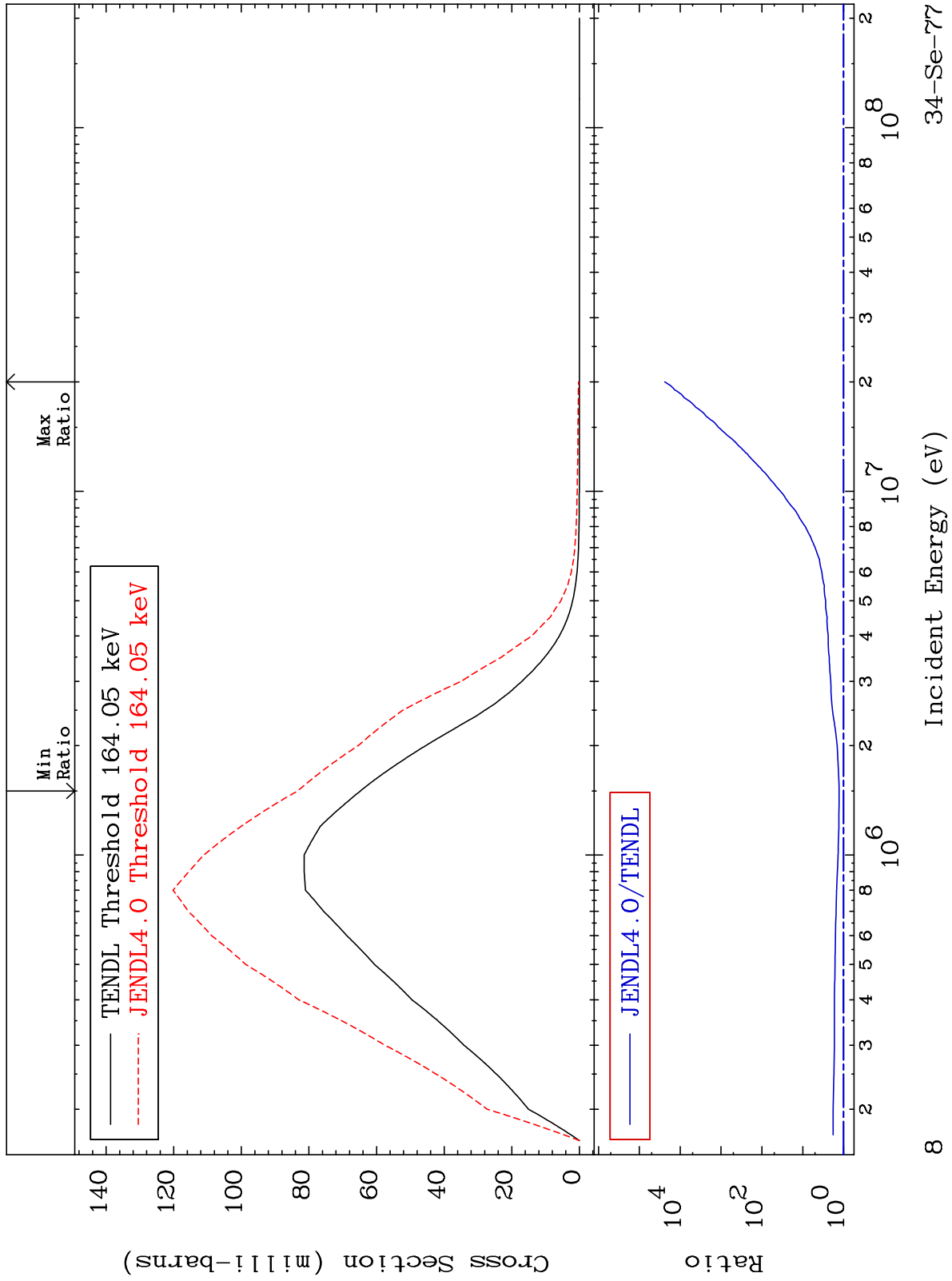


Incident Energy (eV)

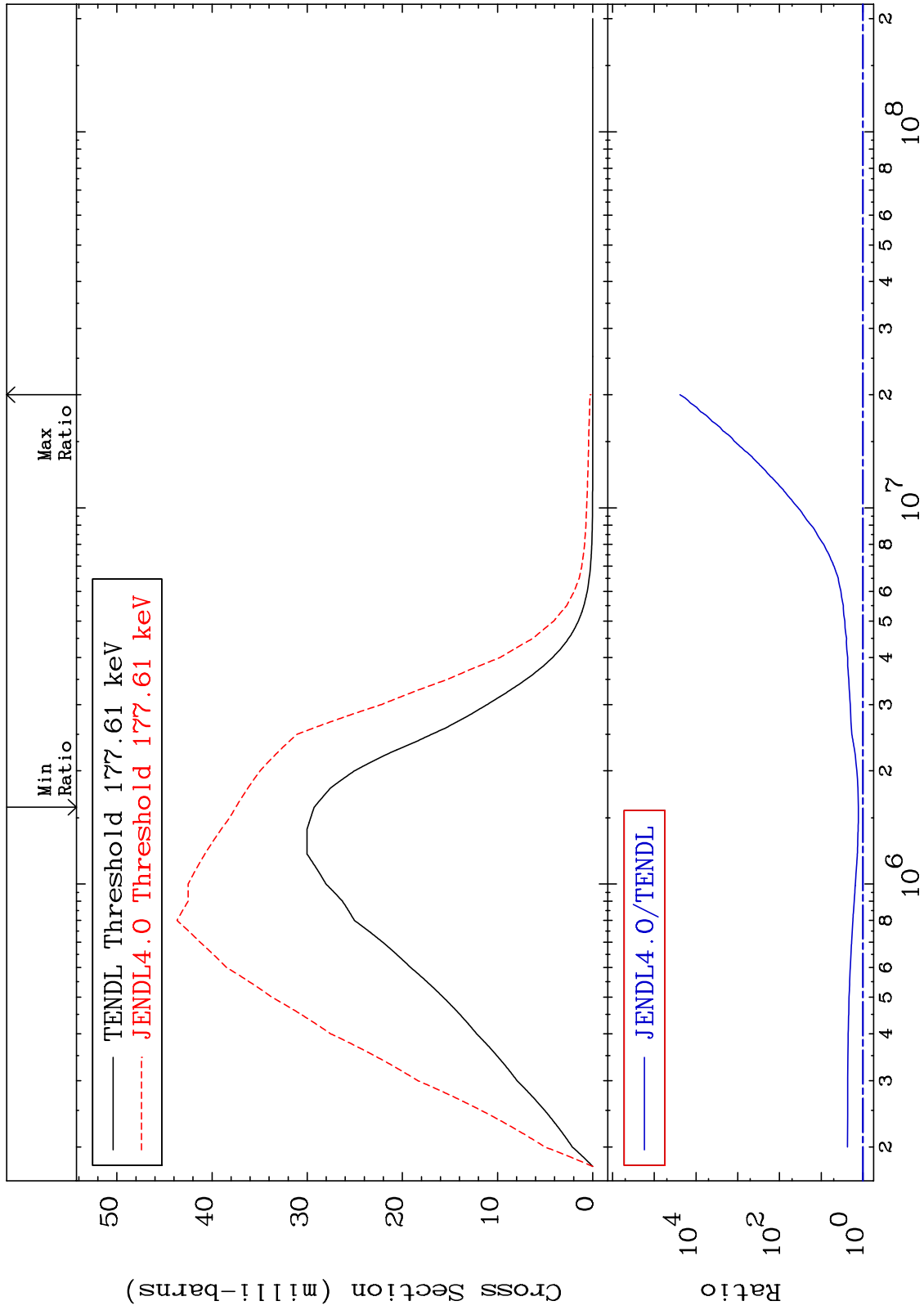
³⁴Se-77



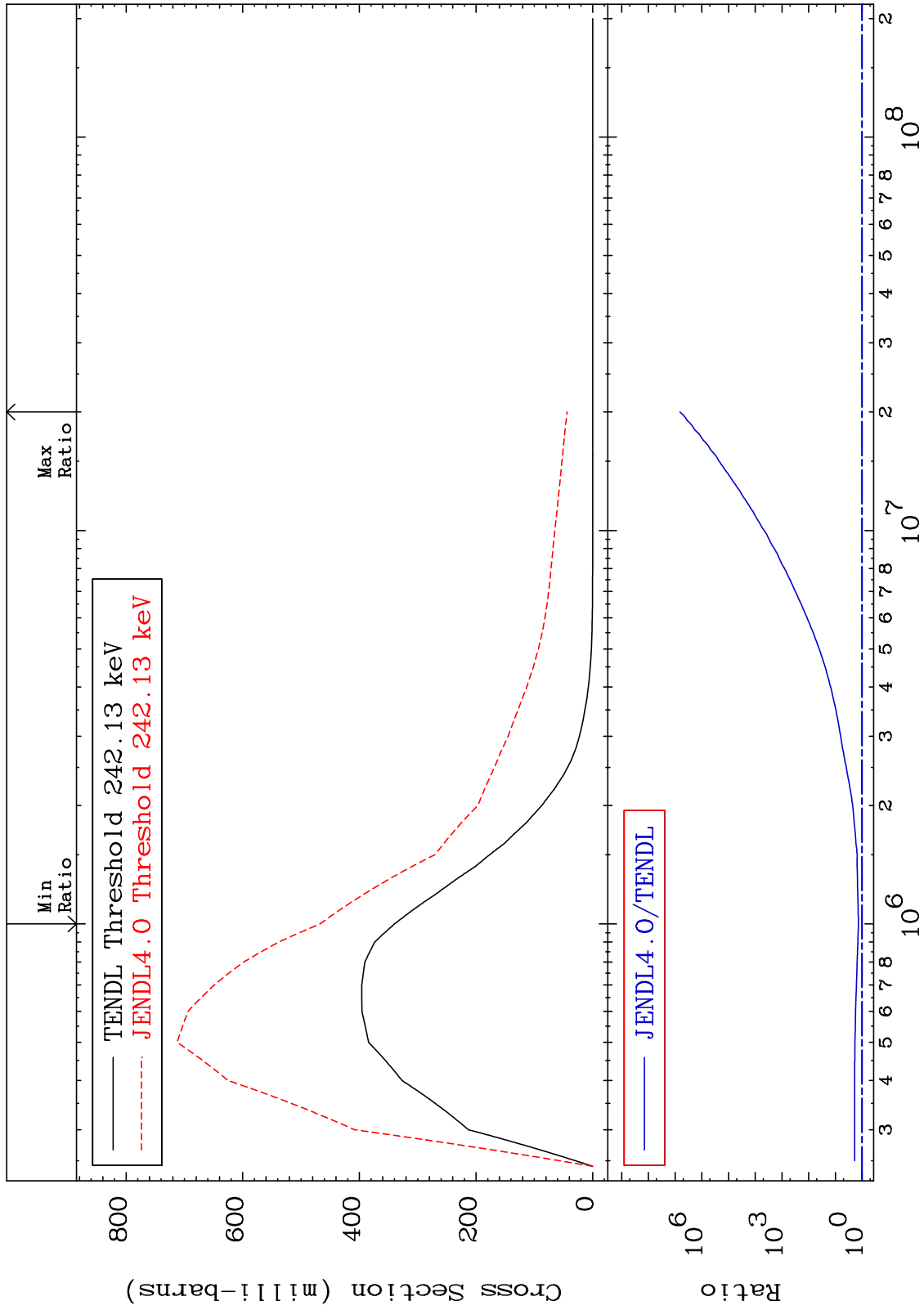
MAT 3434 MT= 51 (n,n') Level Cross Section 28.61 To 9999. % 34-Se-77



MAT 3434 MT= 52 (n,n') Level Cross Section 34-Se-77 28.16 To 9999. %

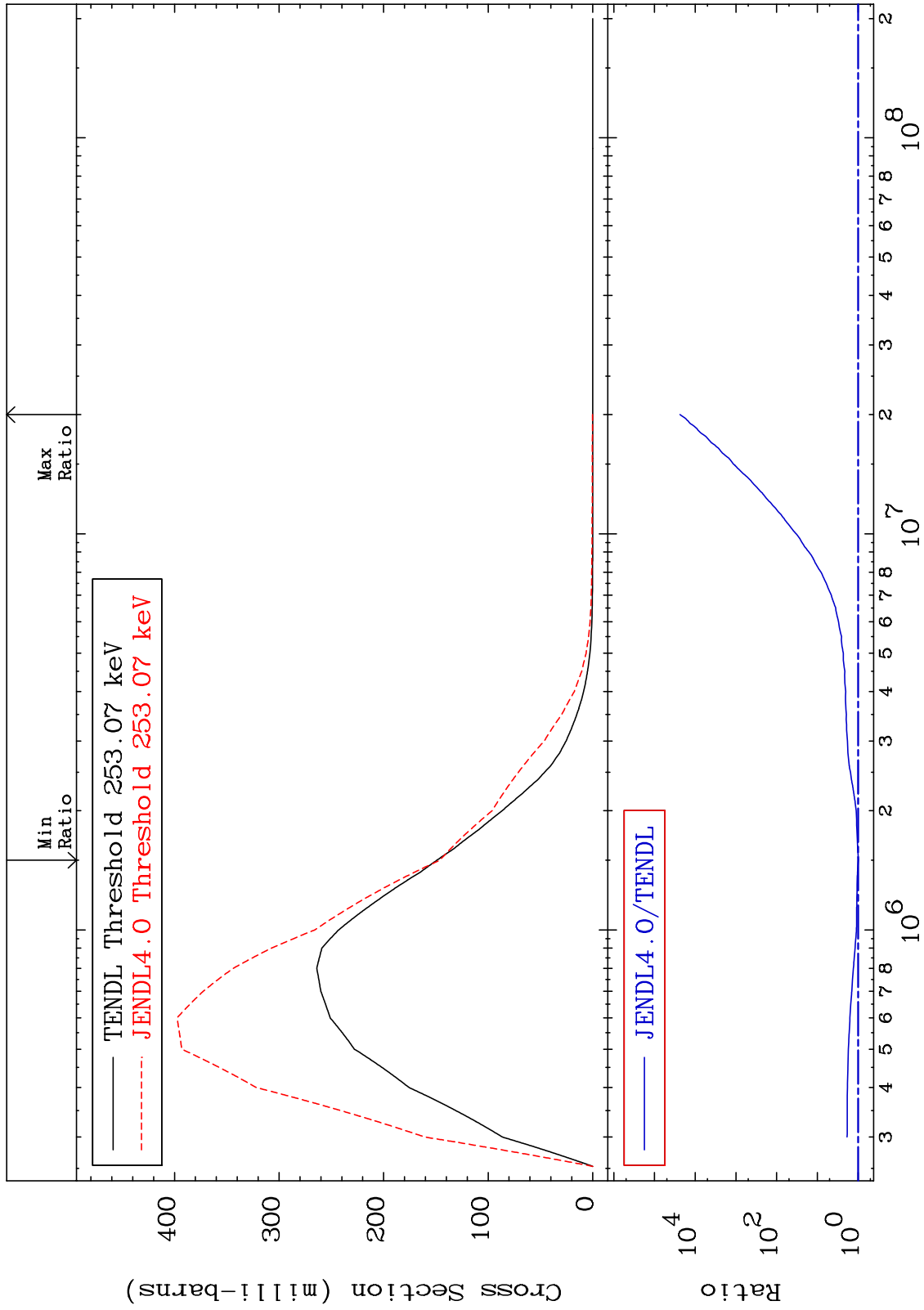


MAT 3434 MT= 53 (n,n') Level Cross Section 34-Se-77 37.58 To 9999. %

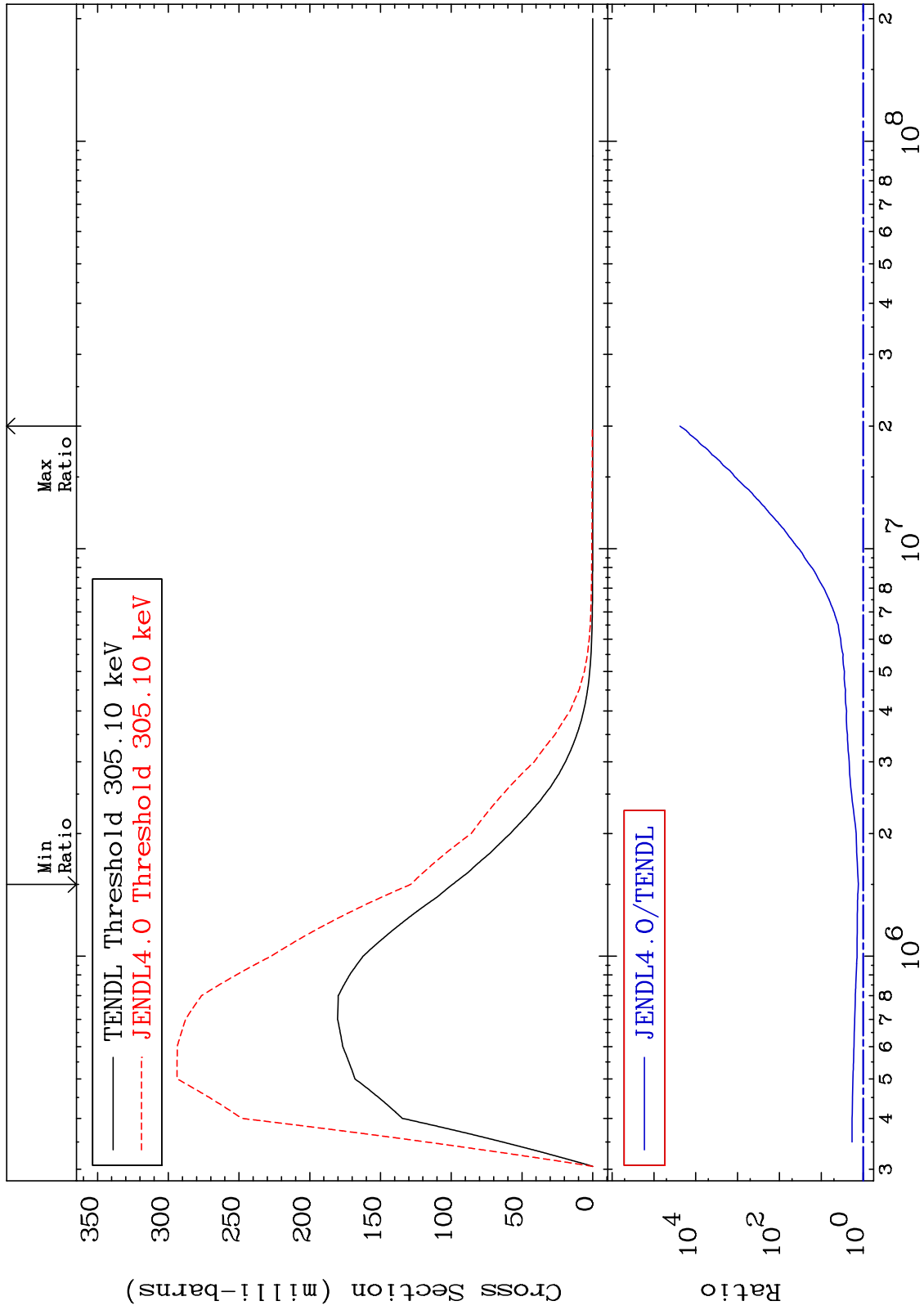


34-Se-77

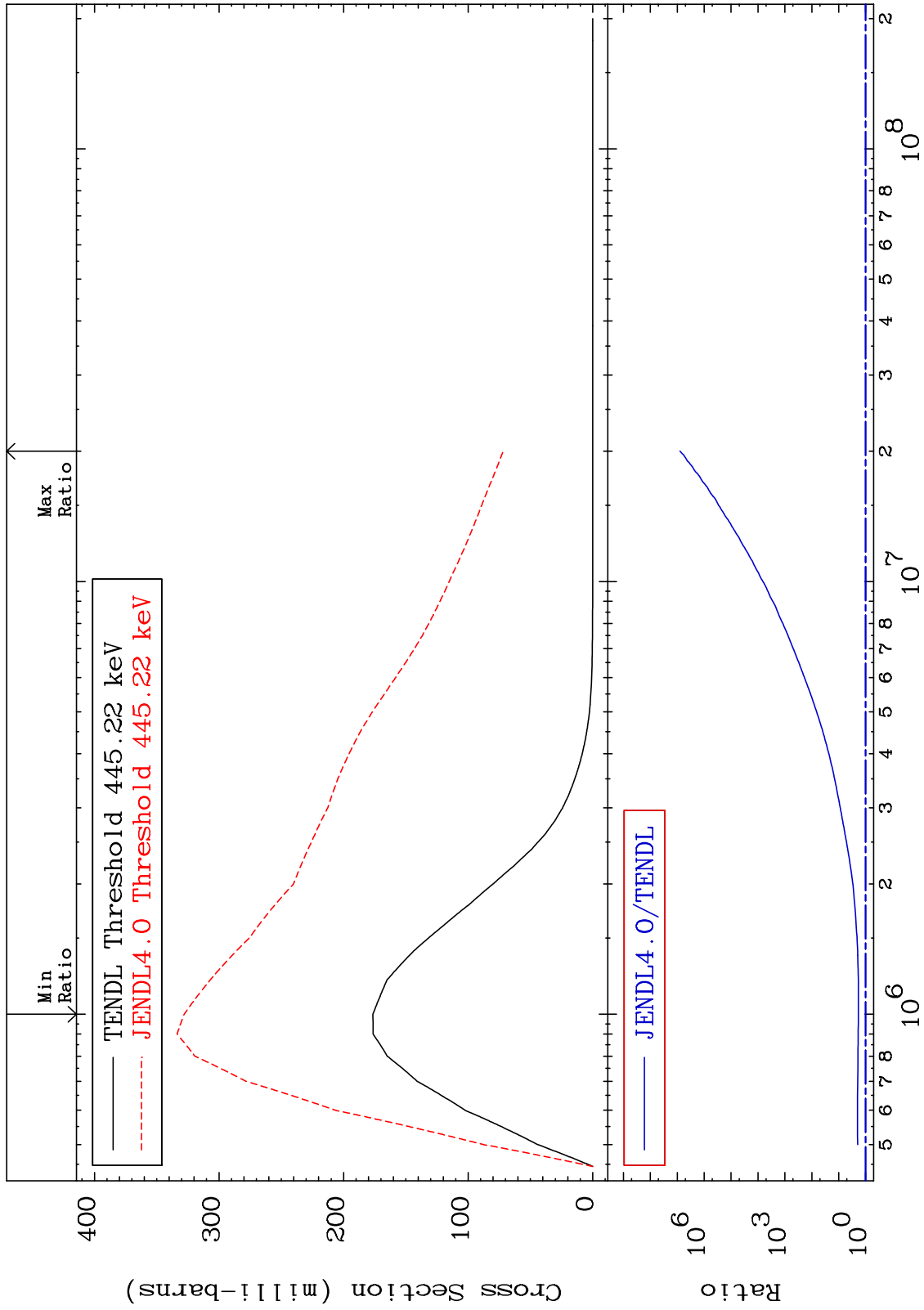
MAT 3434 MT= 54 (n,n') Level Cross Section -1.907 To 9999. % 34-Se-77



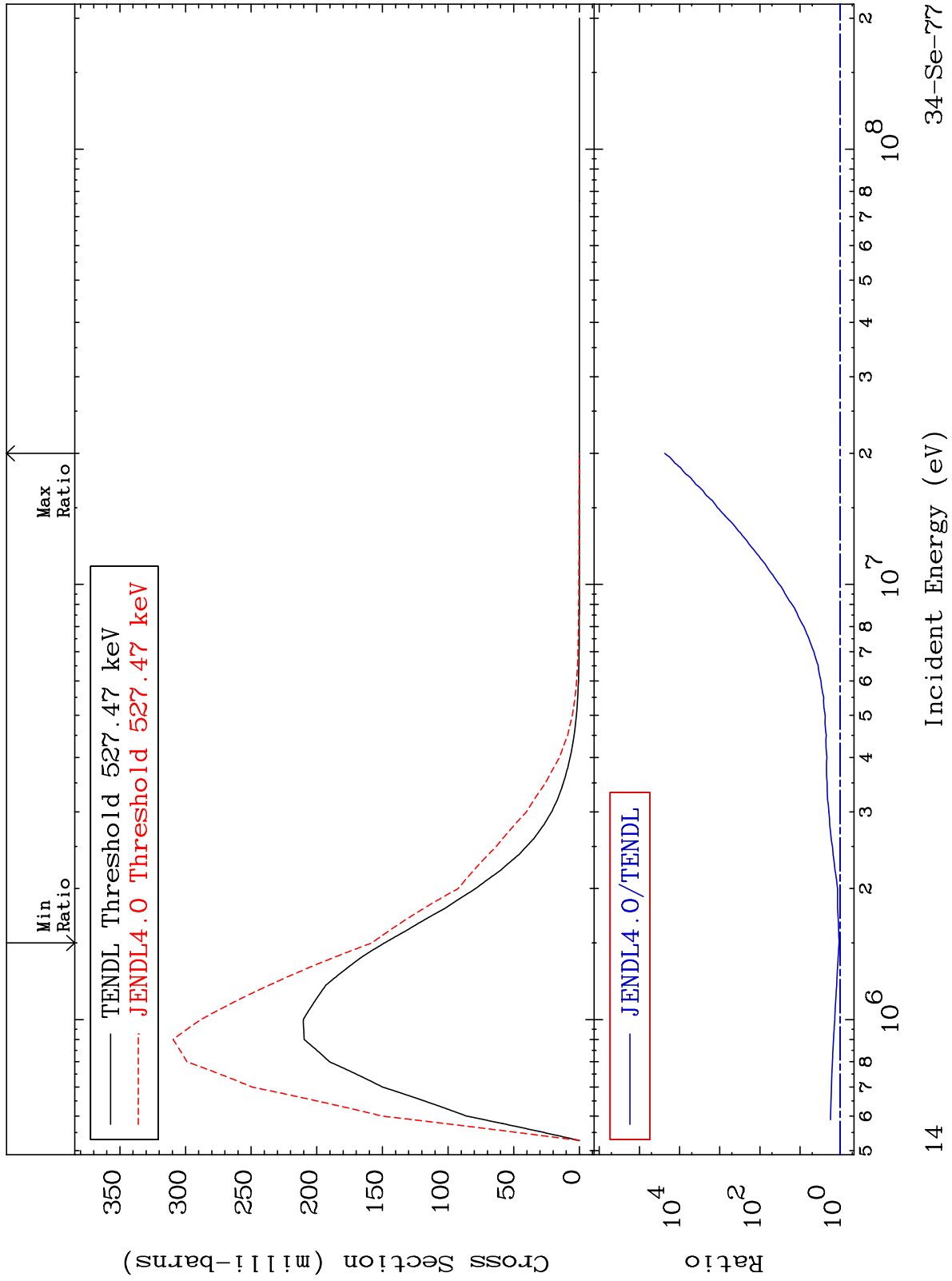
MAT 3434 MT= 55 (n,n') Level Cross Section 34-Se-77 29.90 To 9999. %



MAT 3434 MT= 56 (n,n') Level Cross Section 34-Se-77 85.88 To 9999. %



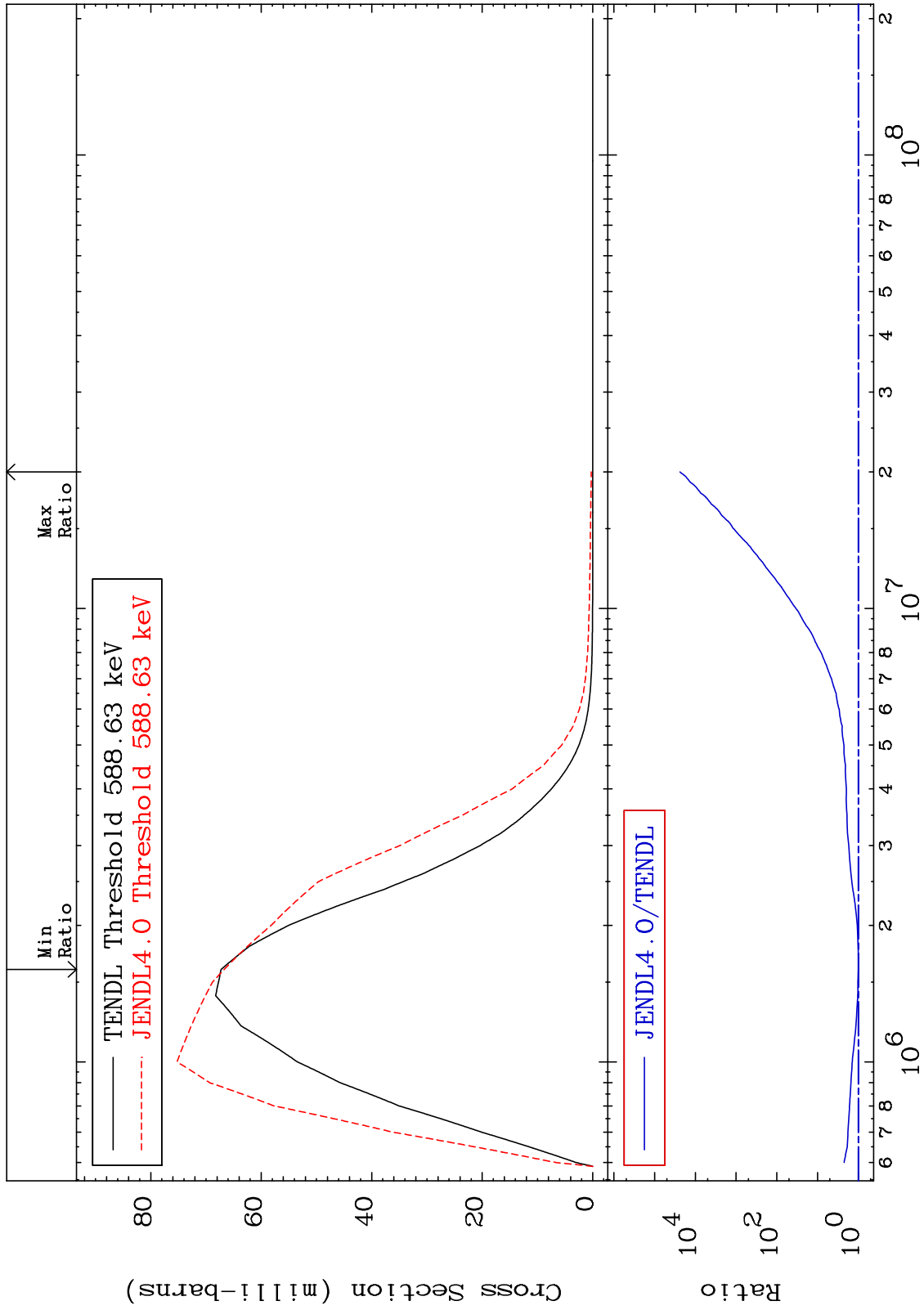
MAT 3434 MT= 57 (n,n') Level Cross Section 34-Se-77 6.567 To 9999. %



MAT 3434

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

34-Se-77
-0.825 To 9999. %



15

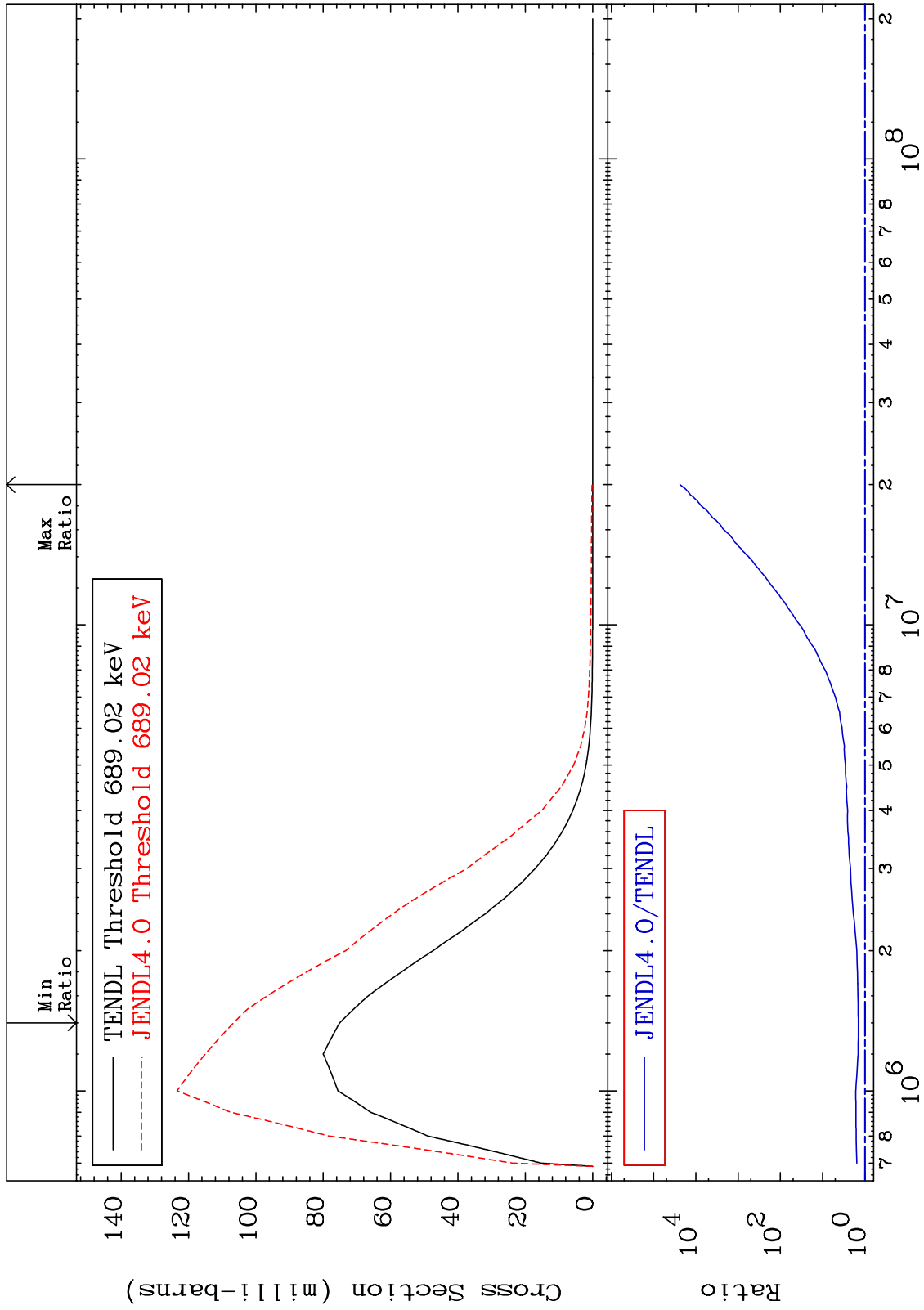
Incident Energy (eV)

34-Se-77

MAT 3434

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

41.91 To 9999. %
34-Se-77

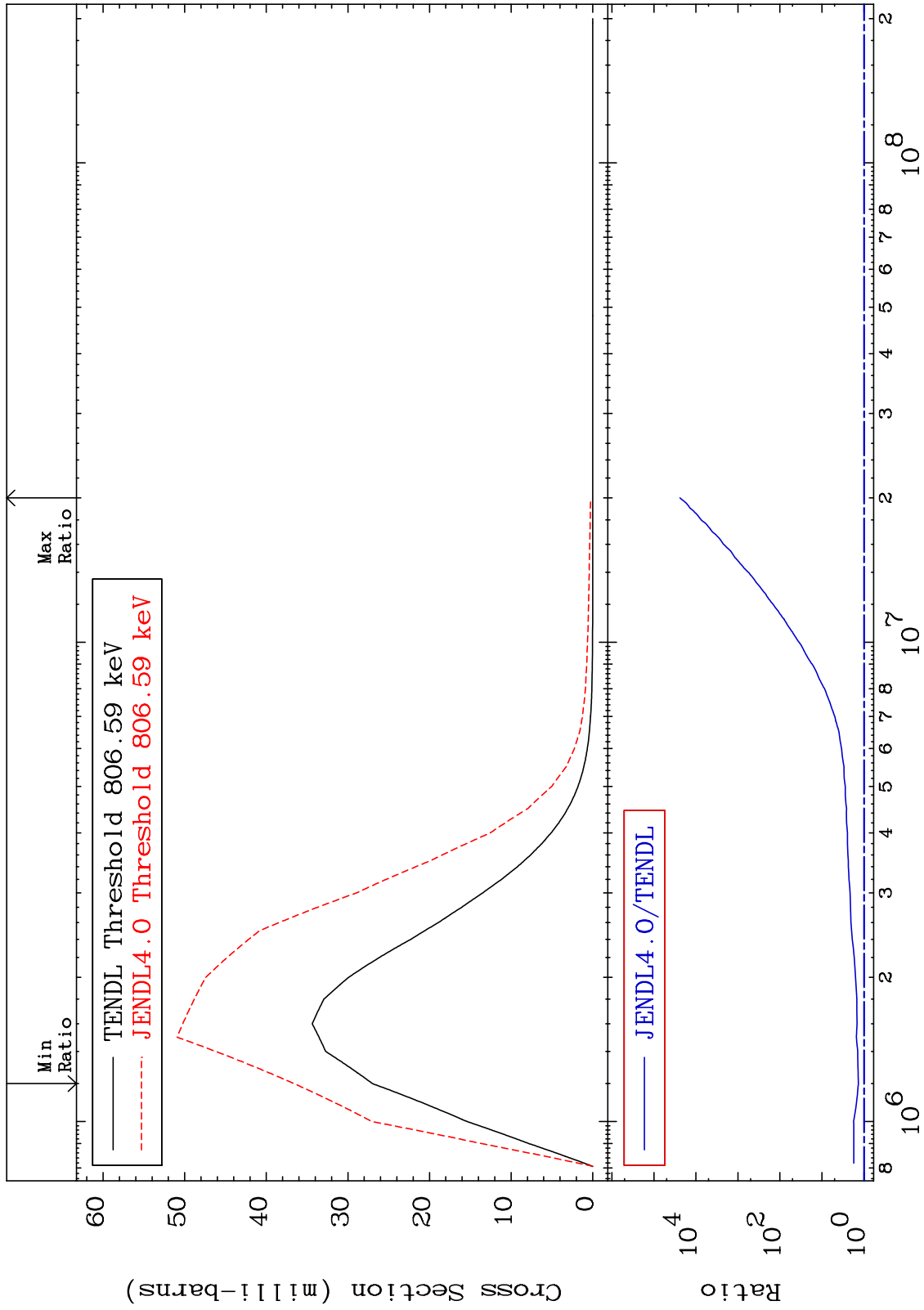


16

Incident Energy (eV)

34-Se-77

MAT 3434 MT= 60 (n,n') Level Cross Section 34-Se-77 35.65 To 9999. %

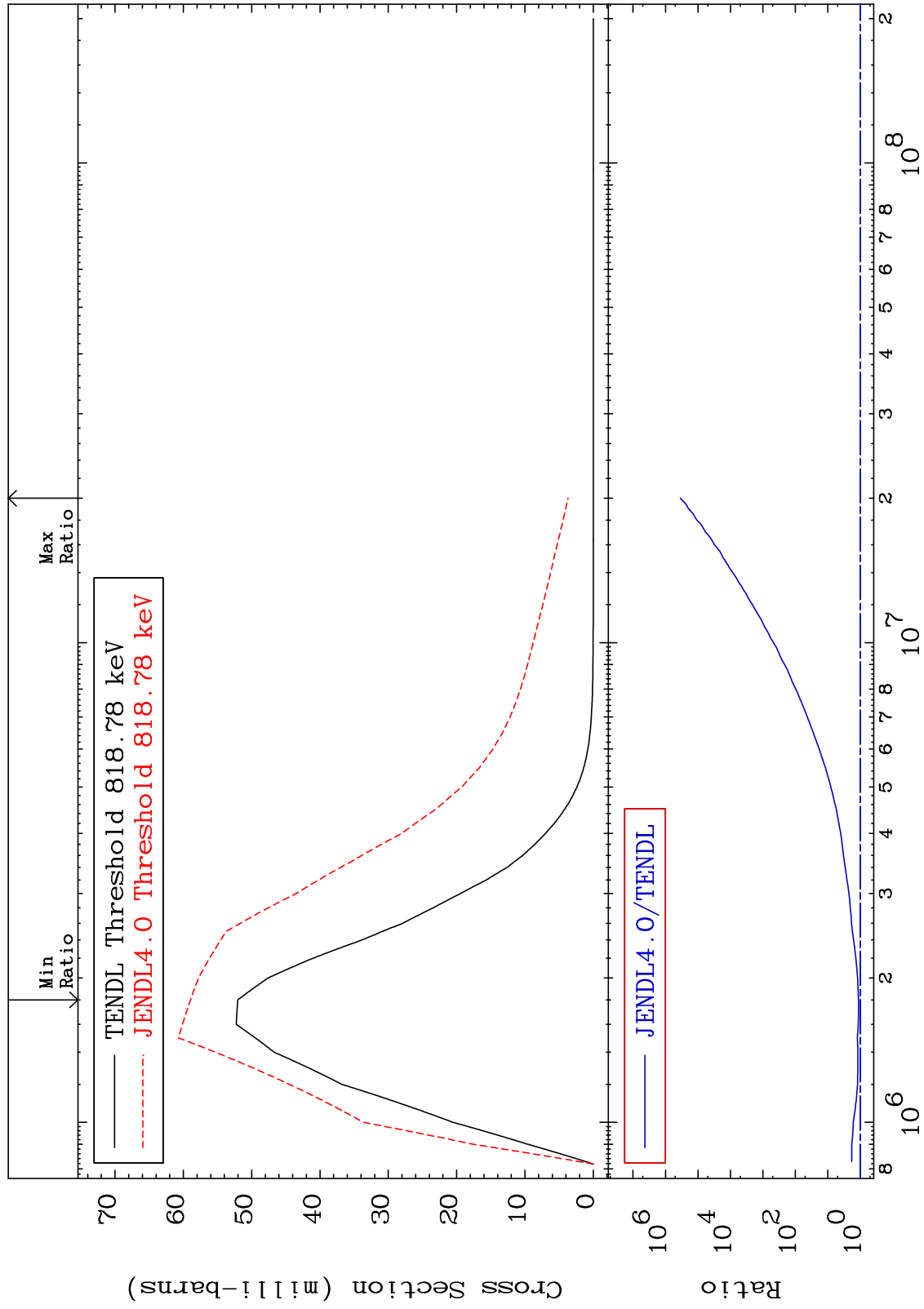


17 Incident Energy (eV) 34-Se-77

MAT 3434

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

13.30 To 9999. %
34-Se-77



18

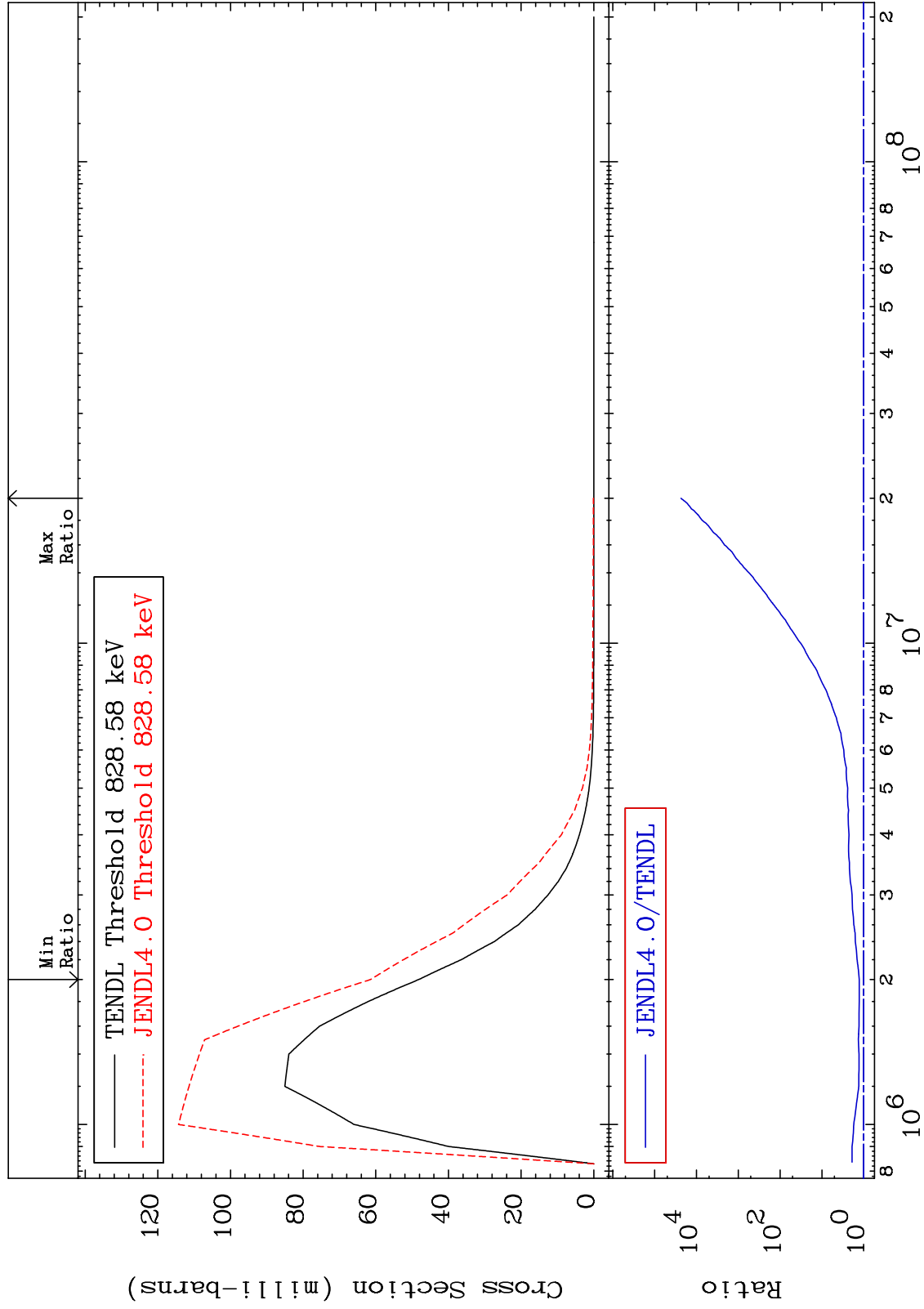
Incident Energy (eV)

34-Se-77

MAT 3434

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

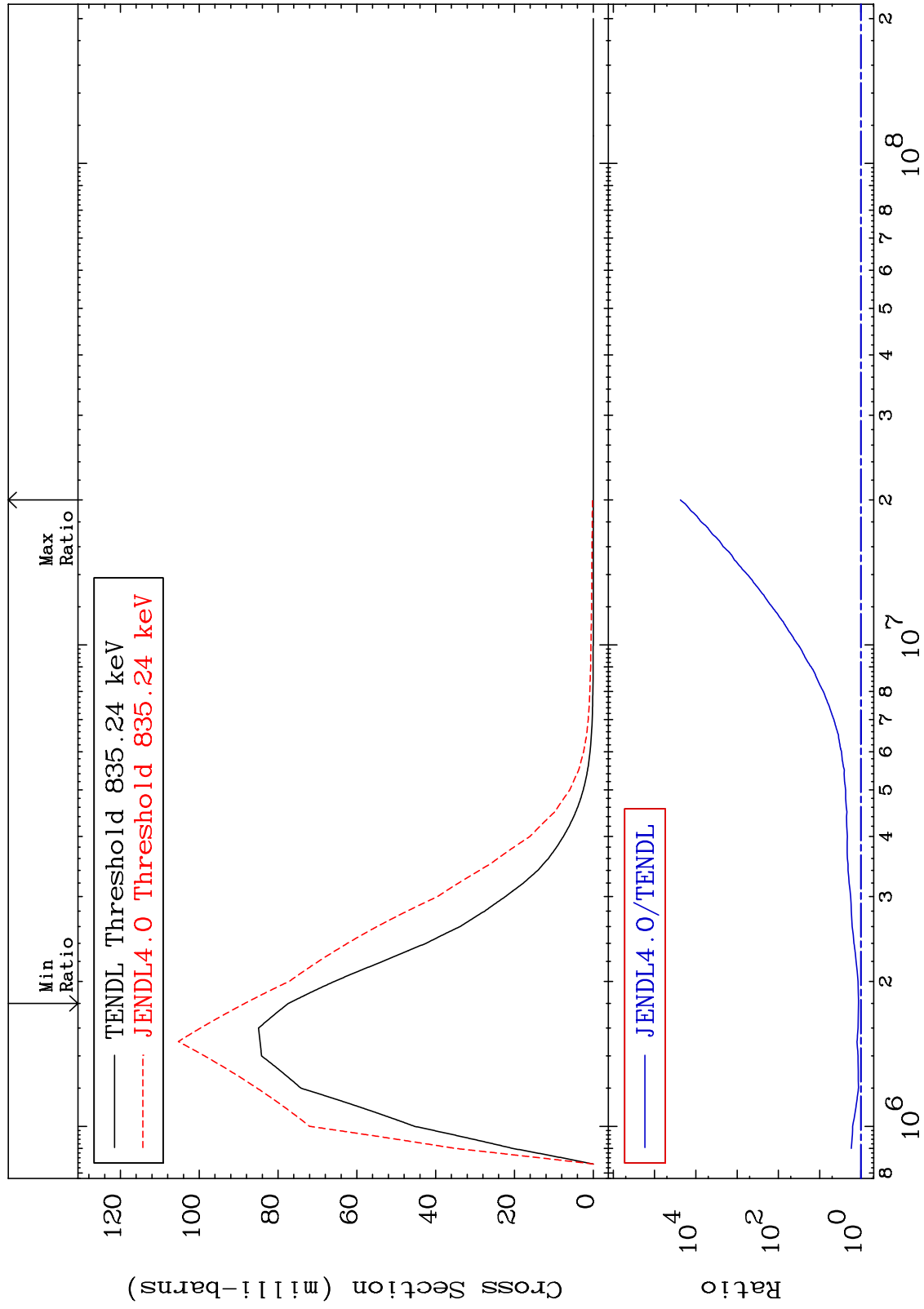
27.52 To 9999. %
34-Se-77



MAT 3434

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

34-Se-77
14.28 To 9999. %



34-Se-77

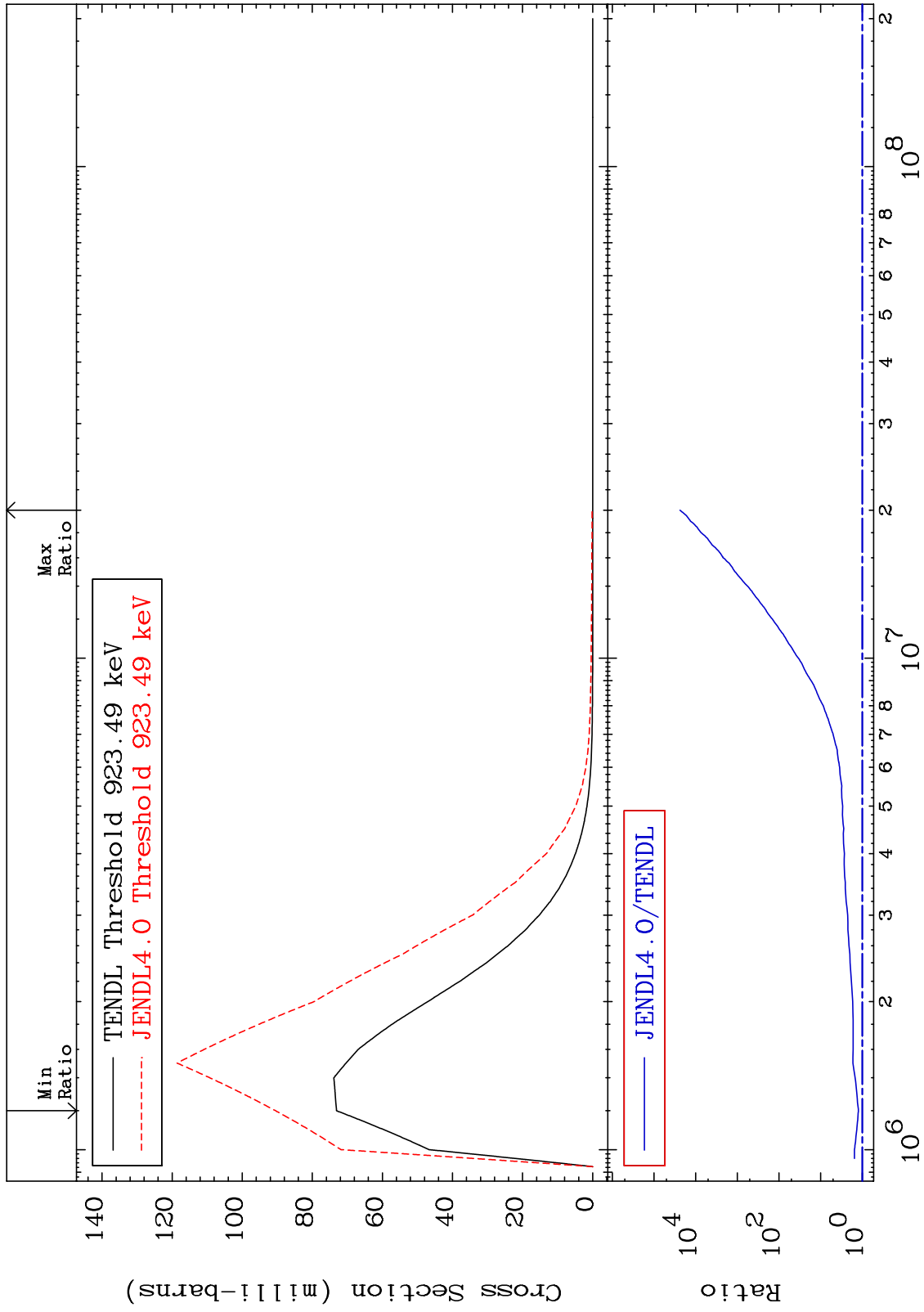
Incident Energy (eV)

20

MAT 3434

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

23.81 To 9999. %
34-Se-77



21

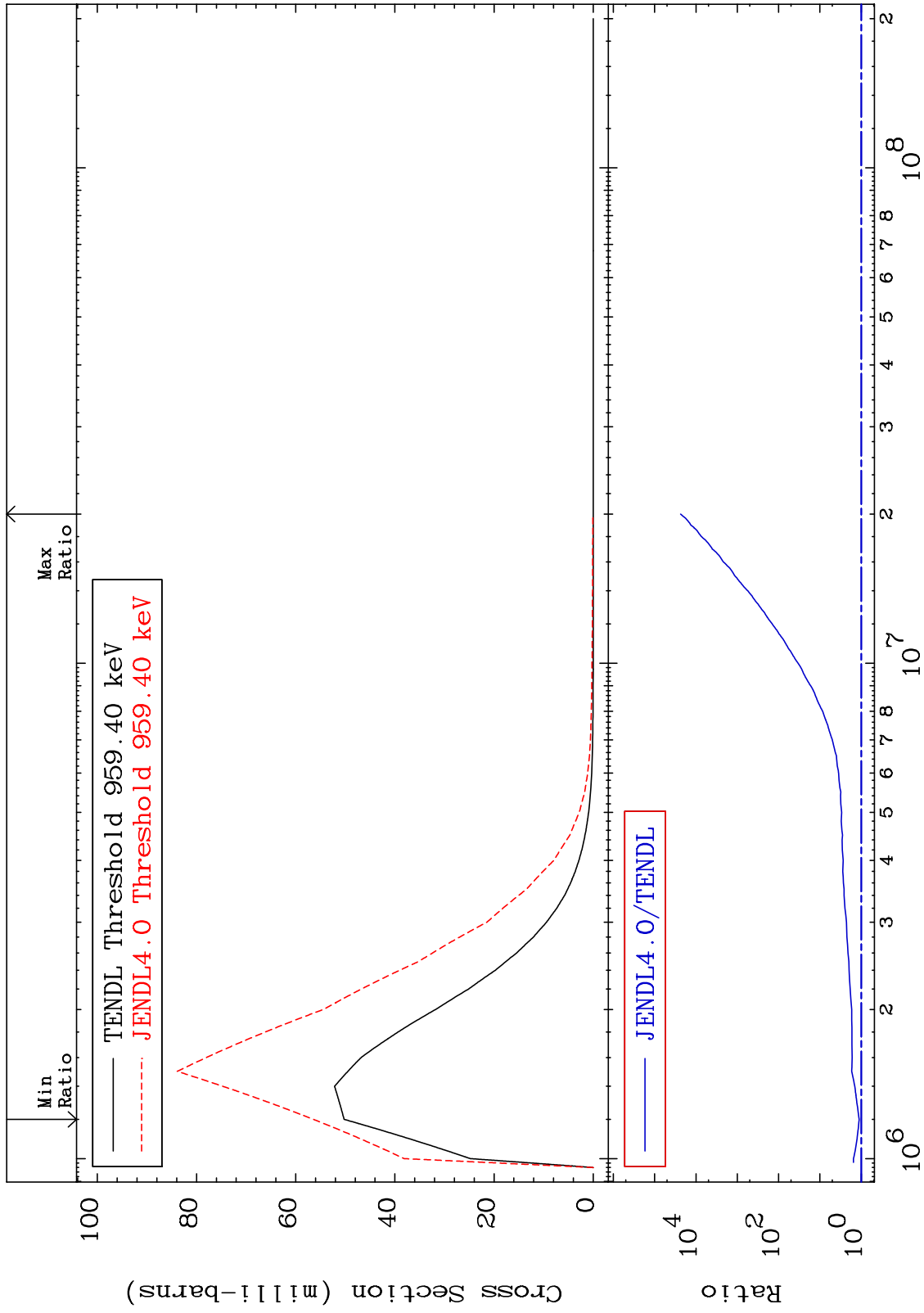
Incident Energy (eV)

34-Se-77

MAT 3434

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

12.33 To 9999. %
34-Se-77



34-Se-77

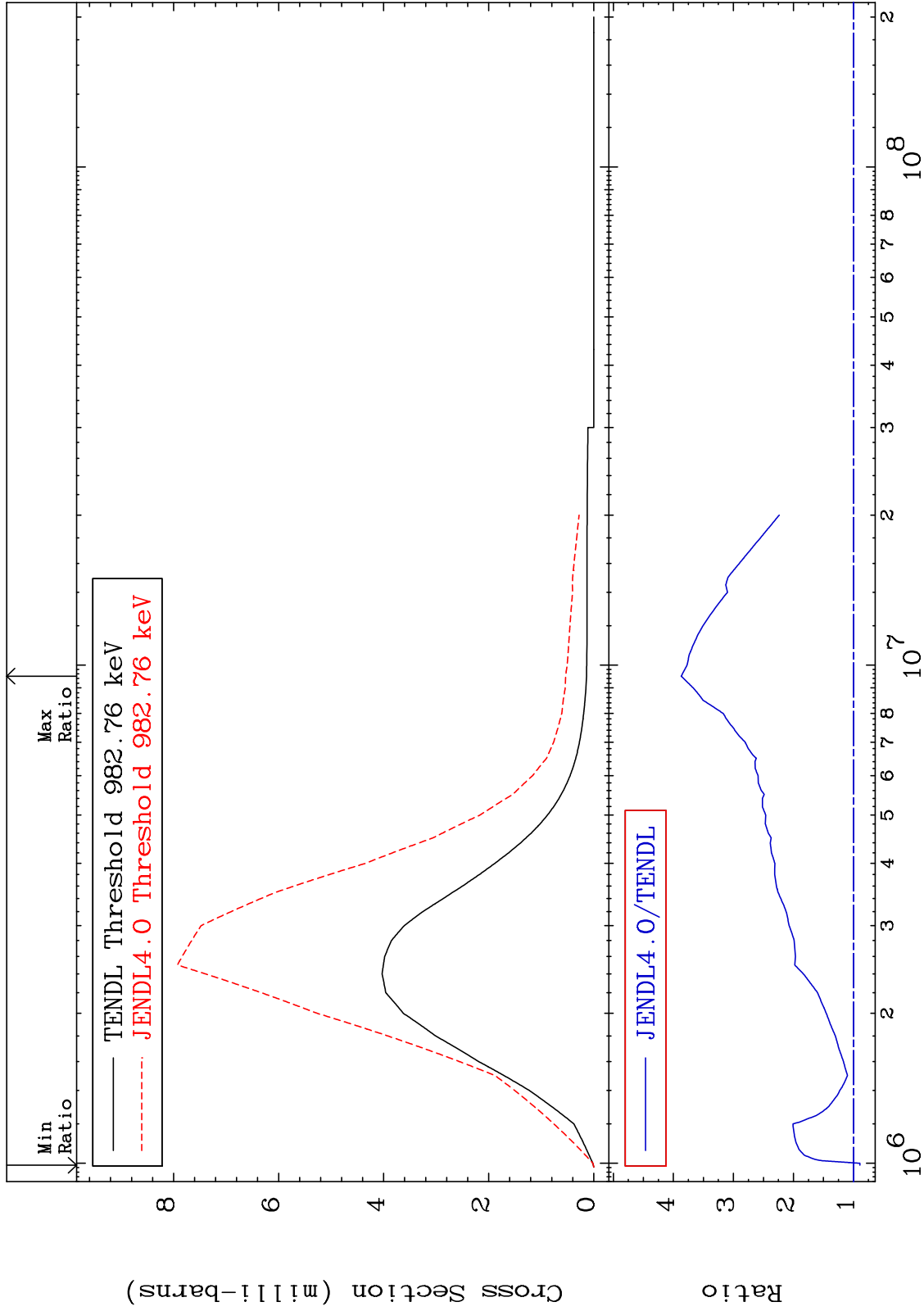
Incident Energy (eV)

22

MAT 3434

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

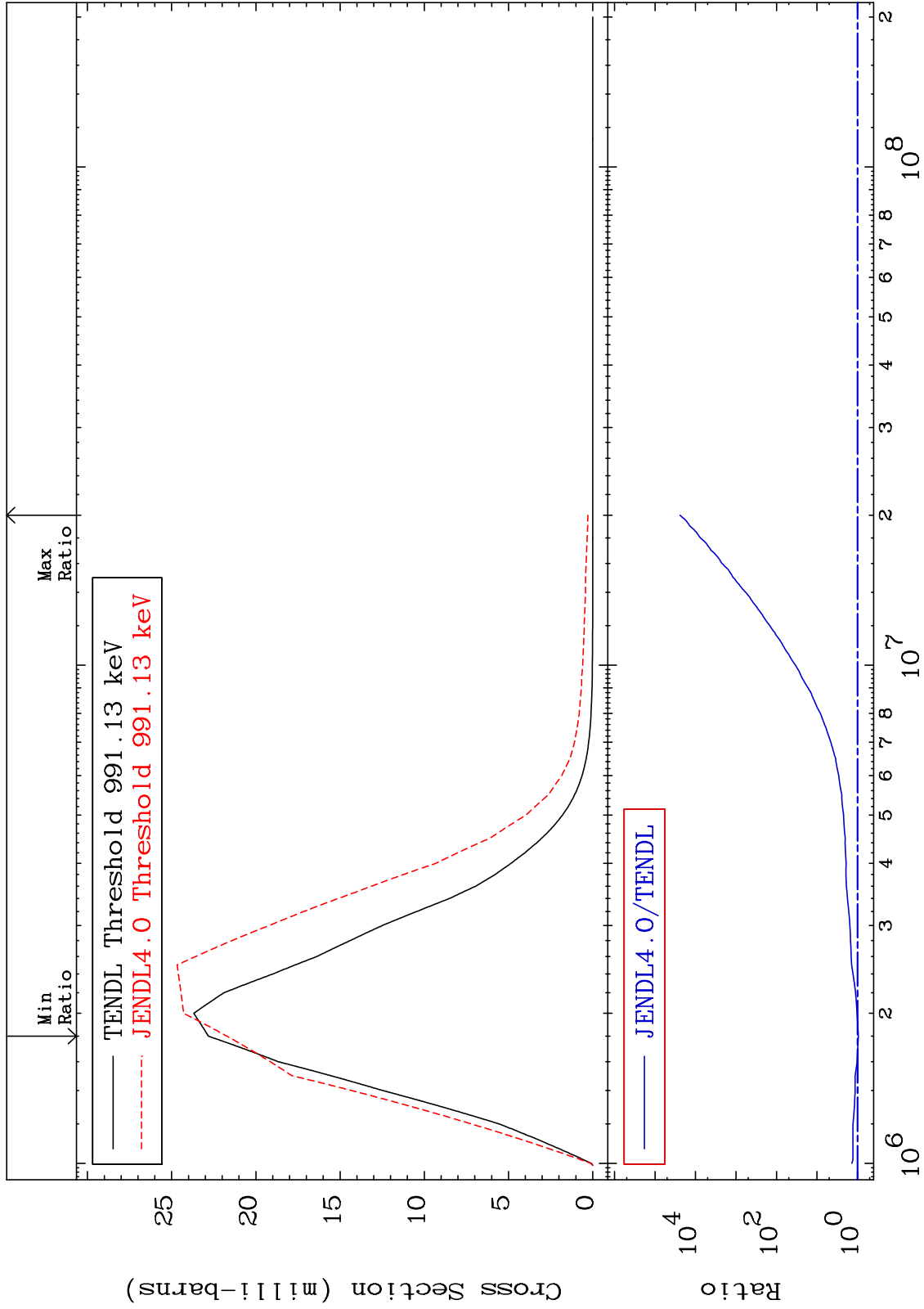
34-Se-77
-10.75 To 286.9 %



MAT 3434

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

34-Se-77
-4.823 To 9999. %



24

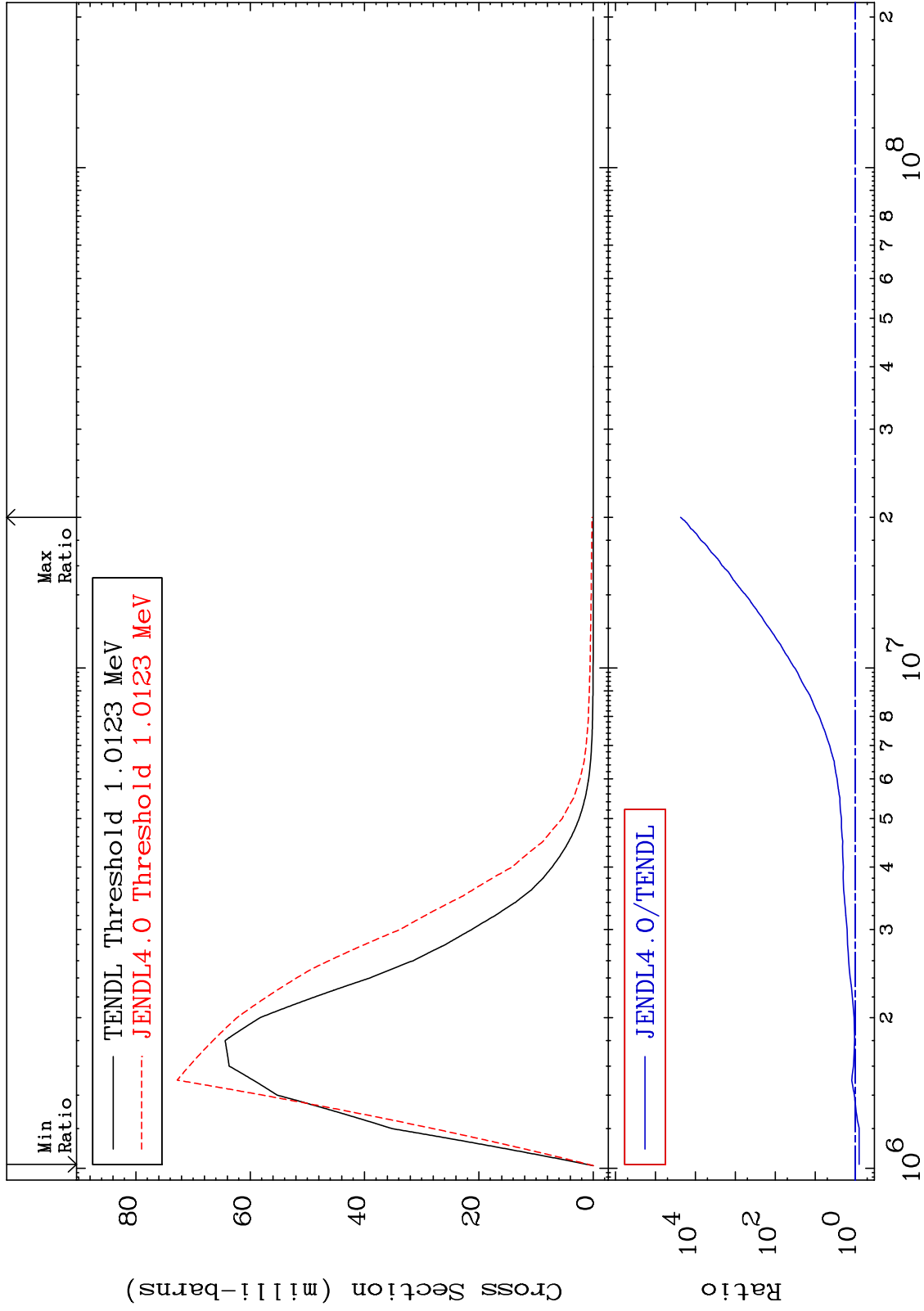
Incident Energy (eV)

34-Se-77

MAT 3434

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

34-Se-77
-20.45 To 9999. %



25

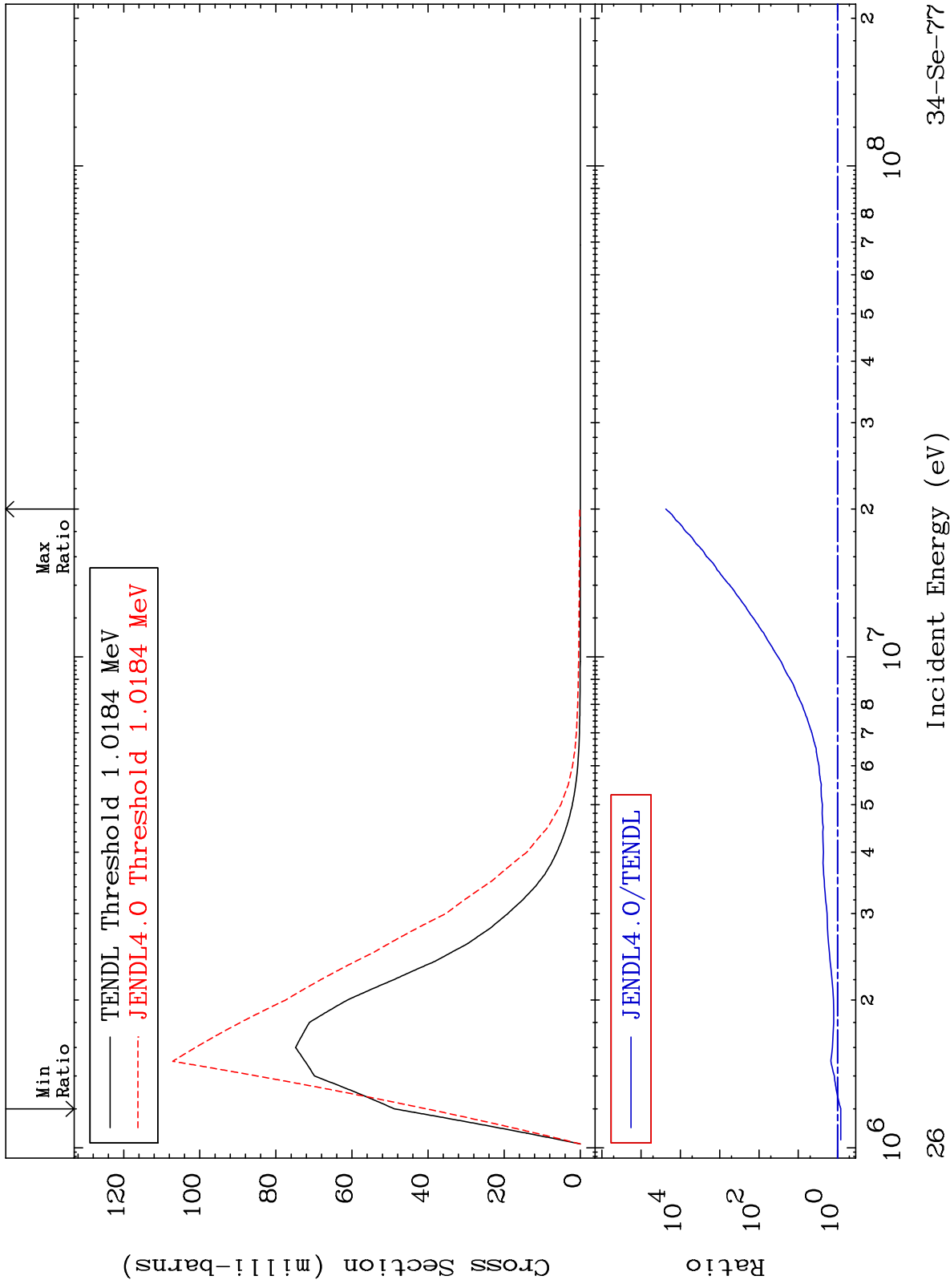
Incident Energy (eV)

34-Se-77

MAT 3434

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

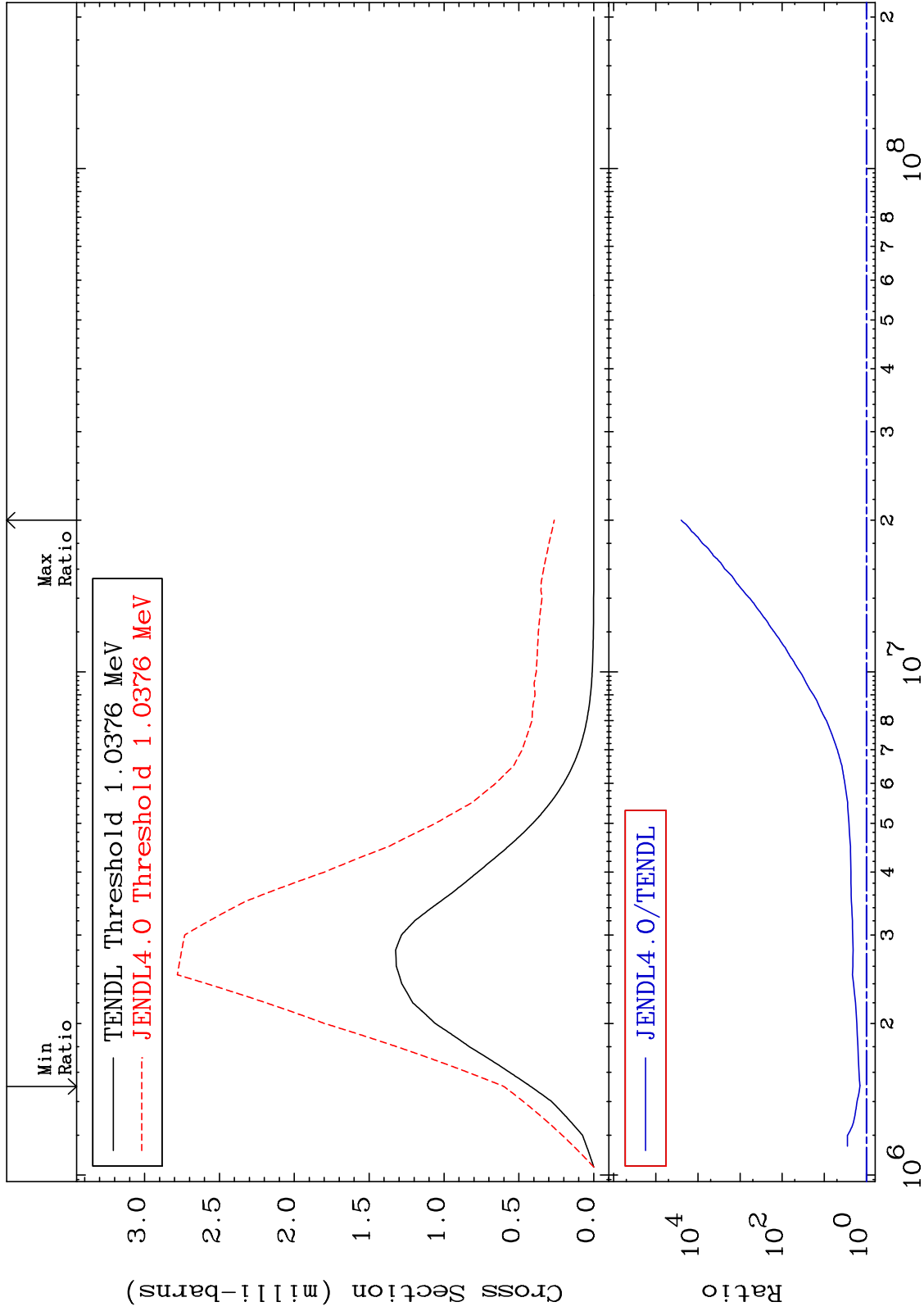
34-Se-77
-17.28 To 9999. %



MAT 3434

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

34-Se-77
42.49 To 9999. %



27

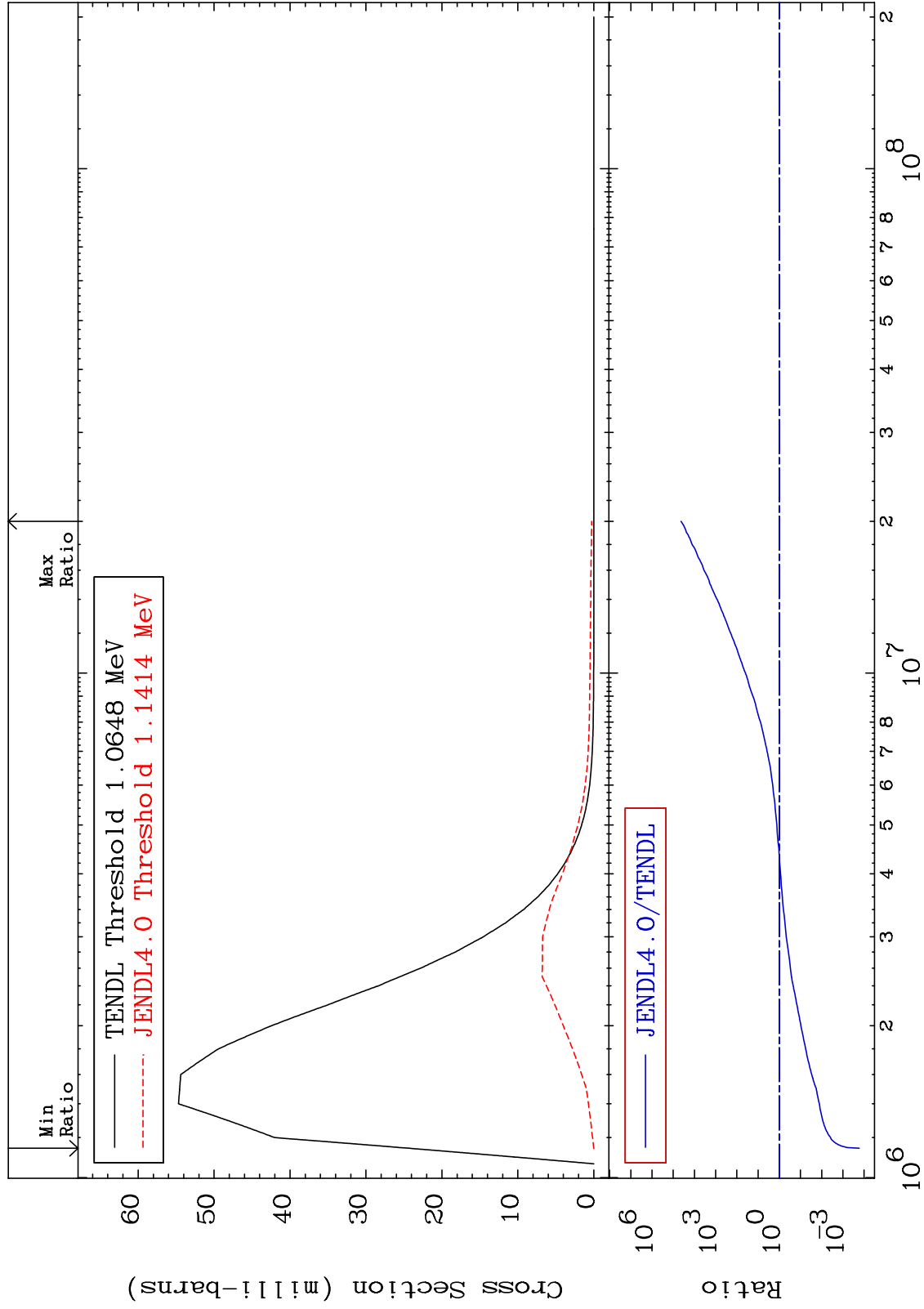
Incident Energy (eV)

34-Se-77

MAT 3434

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

34-Se-77
-99.98 To 9999. %



28

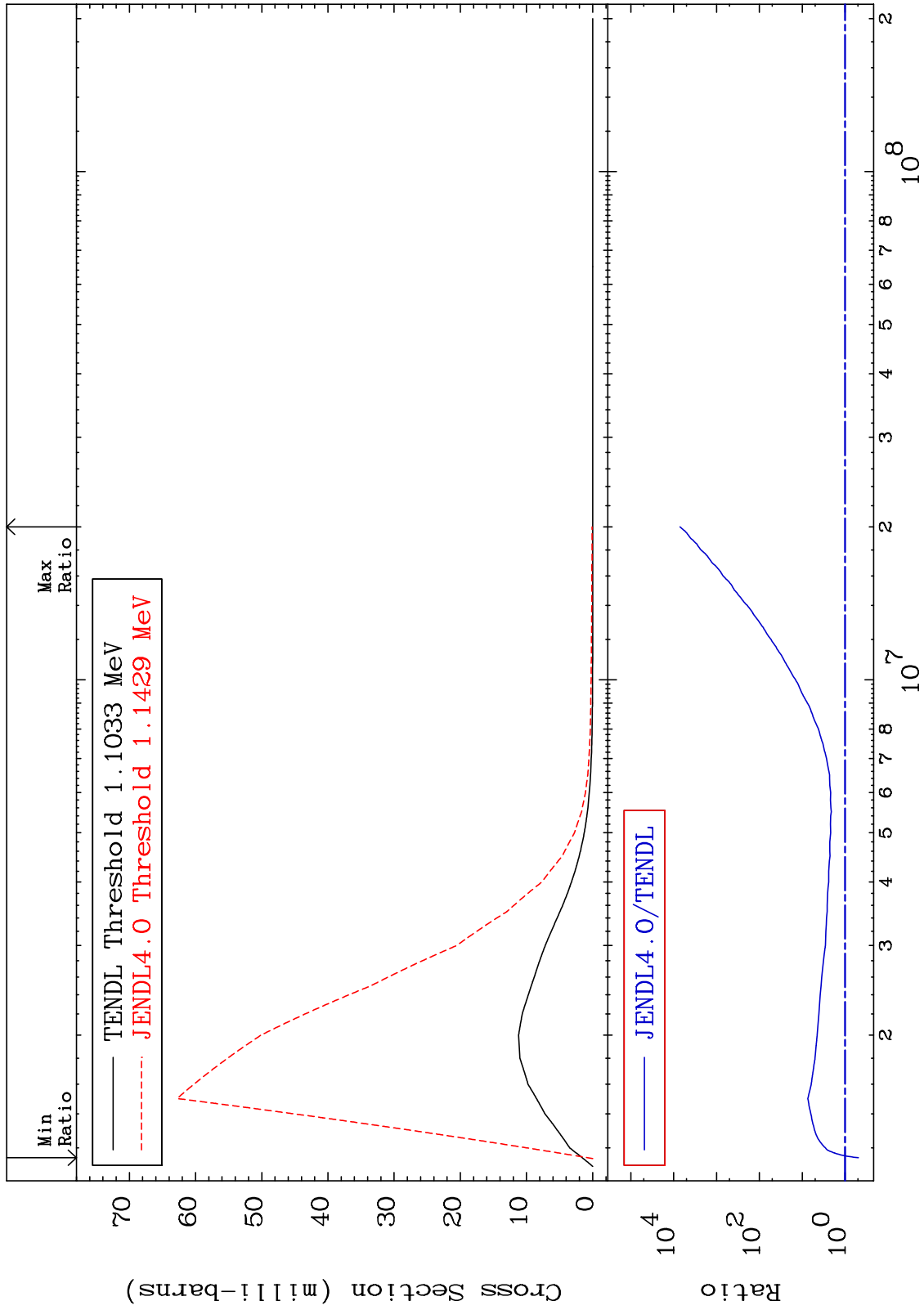
Incident Energy (eV)

34-Se-77

MAT 3434

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

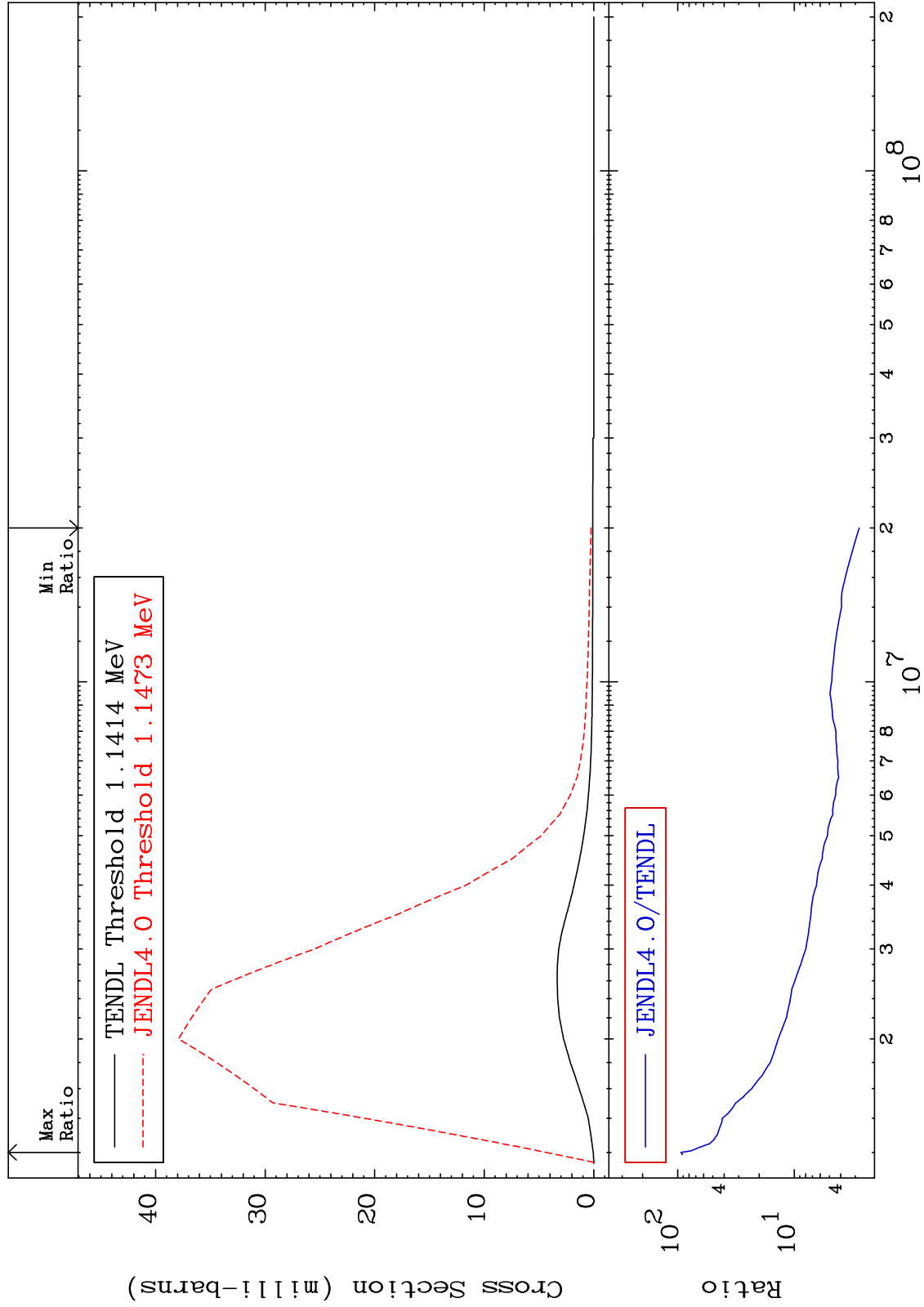
34-Se-77
-51.18 To 9999. %



MAT 3434

MT= 73 (n,n') Level
Cross Section

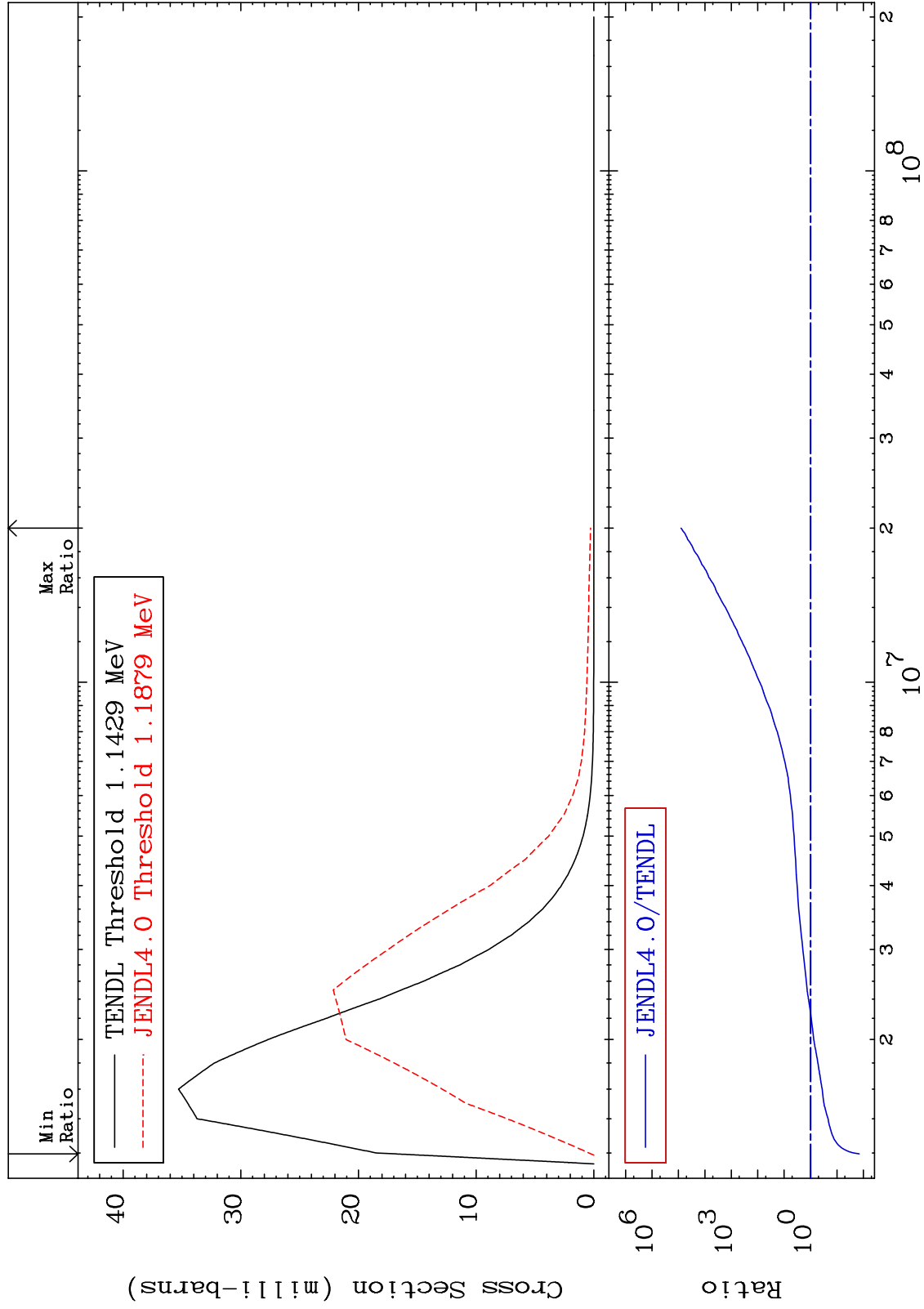
177.1 To 9265. %
34-Se-77



MAT 3434

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

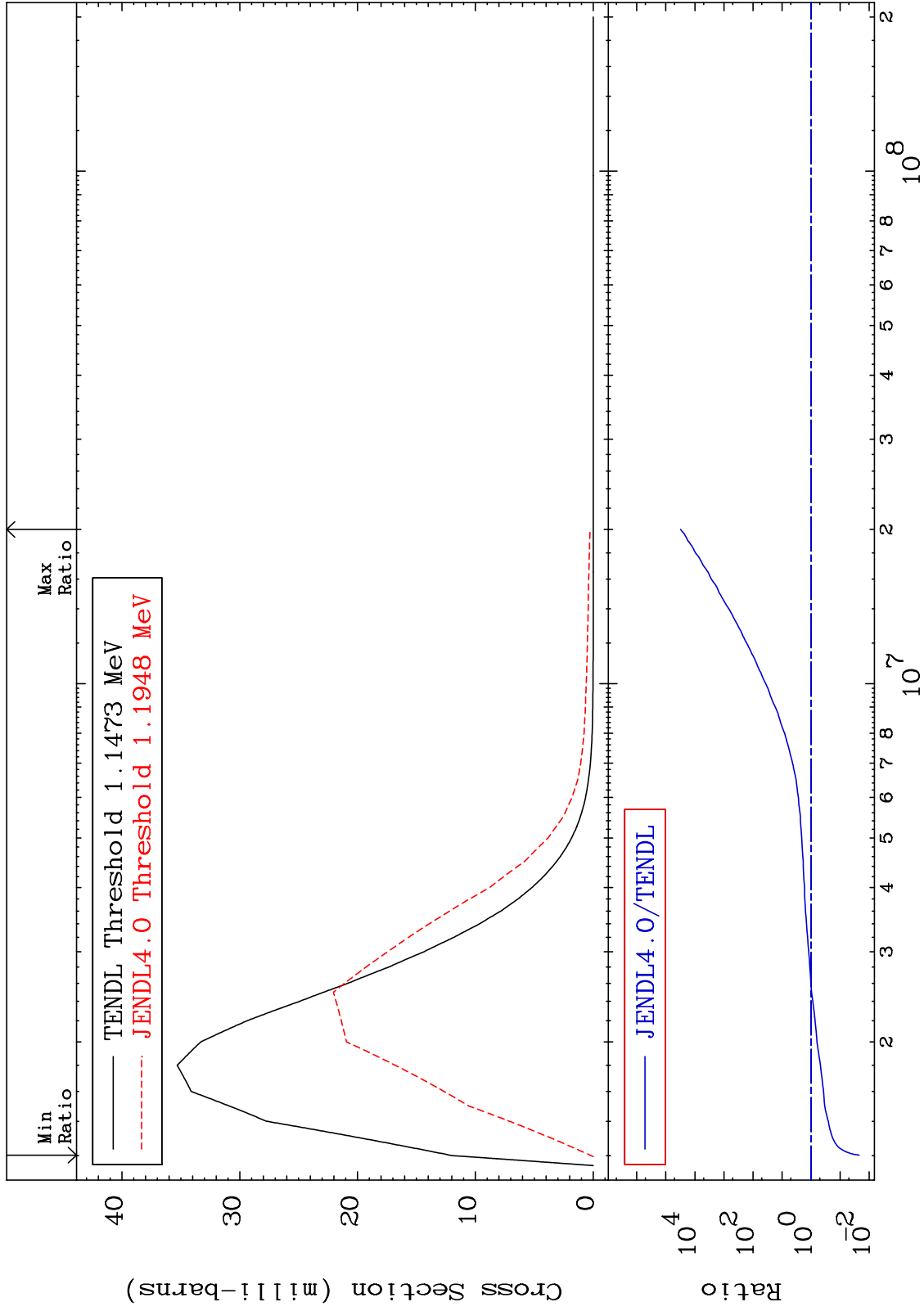
34-Se-77
-98.57 To 9999. %

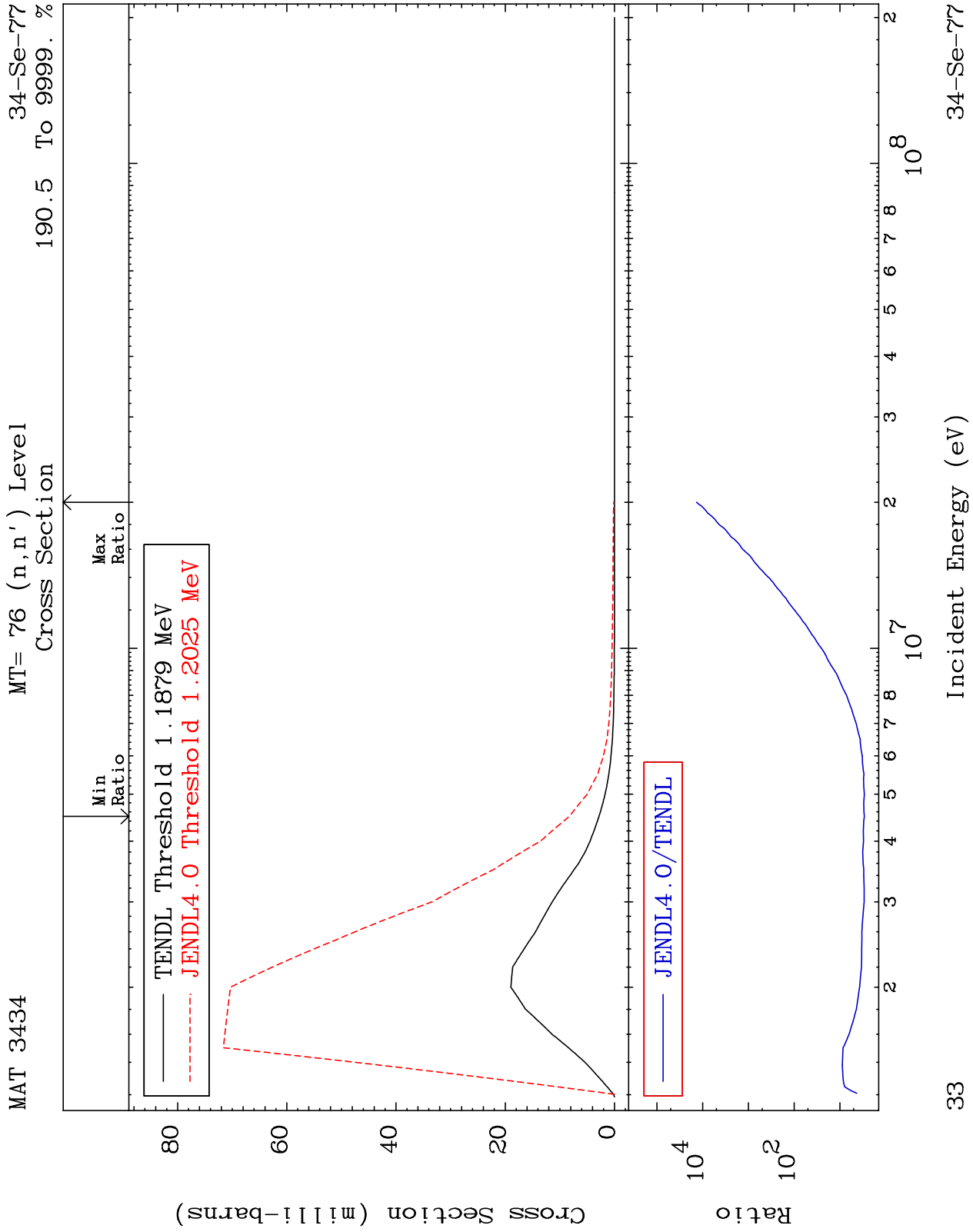


MAT 3434

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

34-Se-77
-97.79 To 9999. %

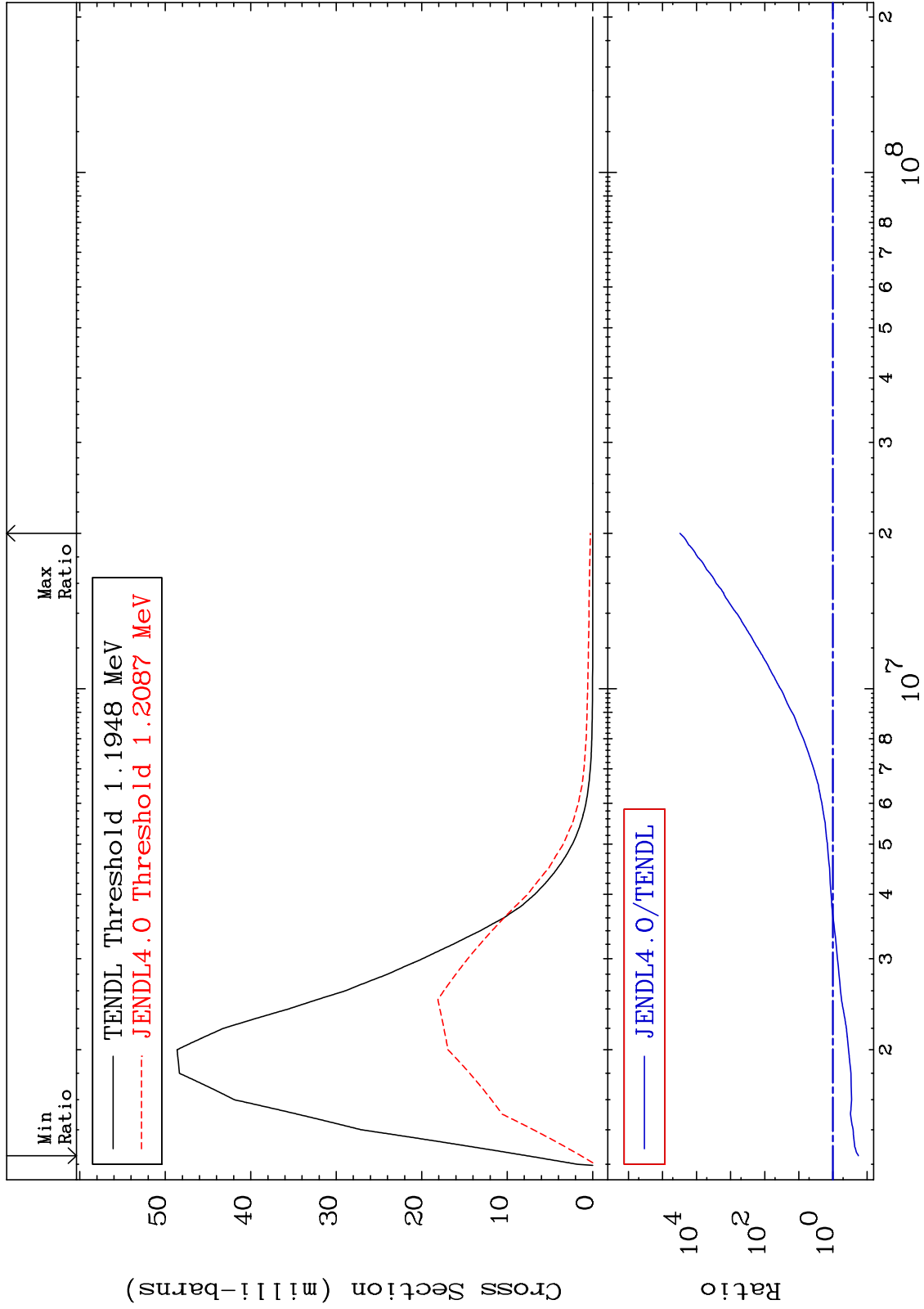




MAT 3434

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

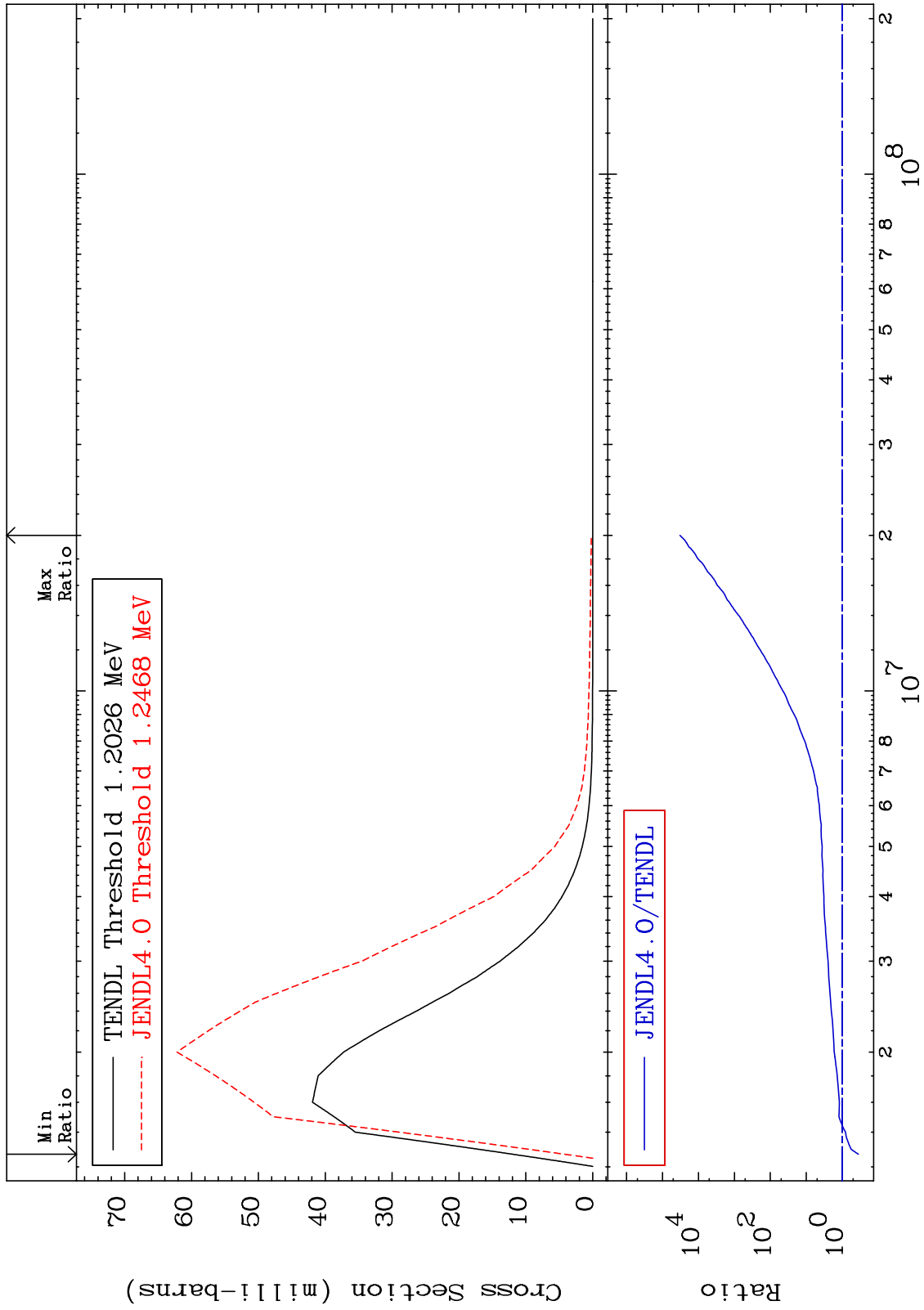
34-Se-77
-82.11 To 9999. %



MAT 3434

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

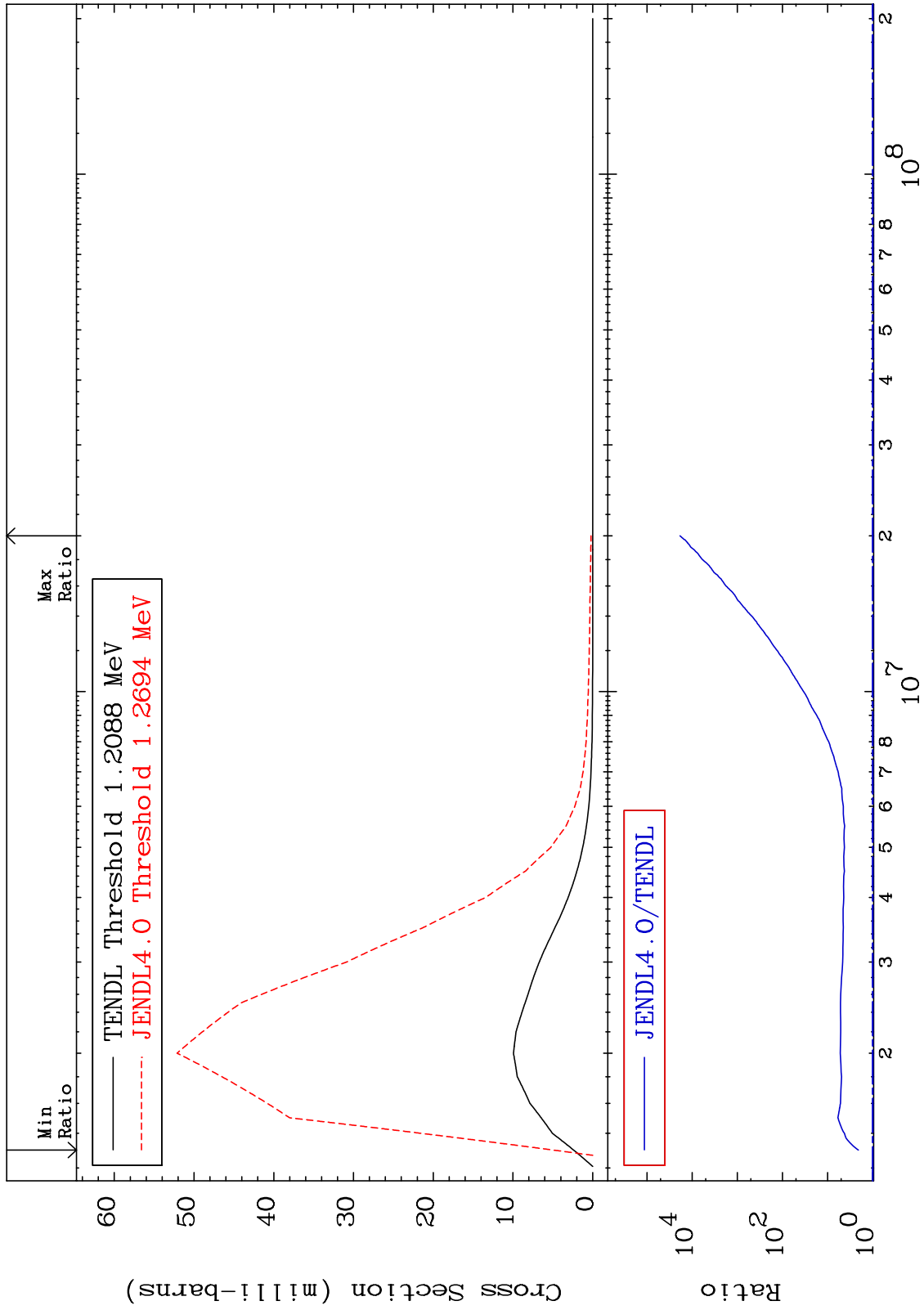
34-Se-77
-64.46 To 9999. %



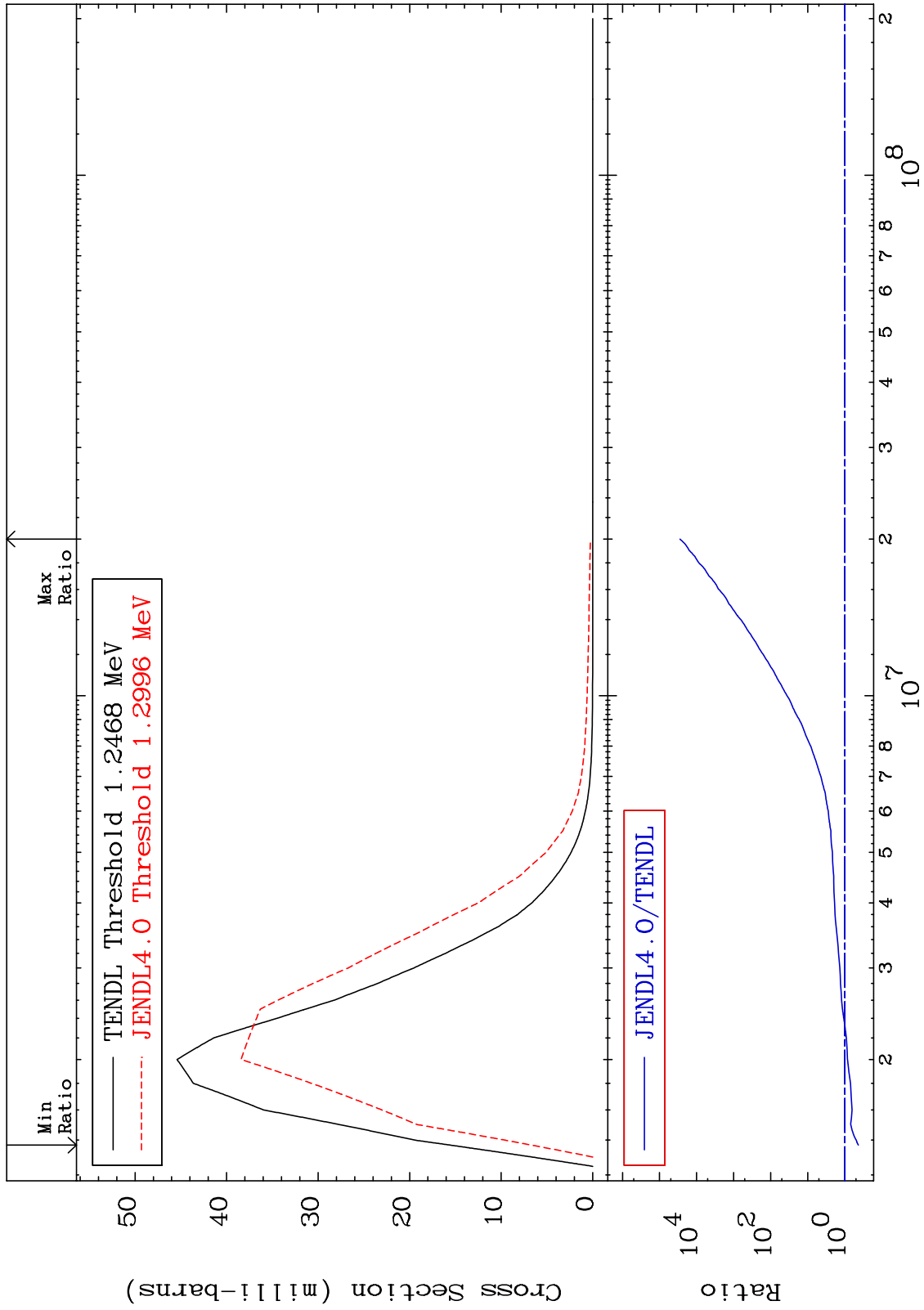
MAT 3434

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

107.4 To 9999. %
34-Se-77



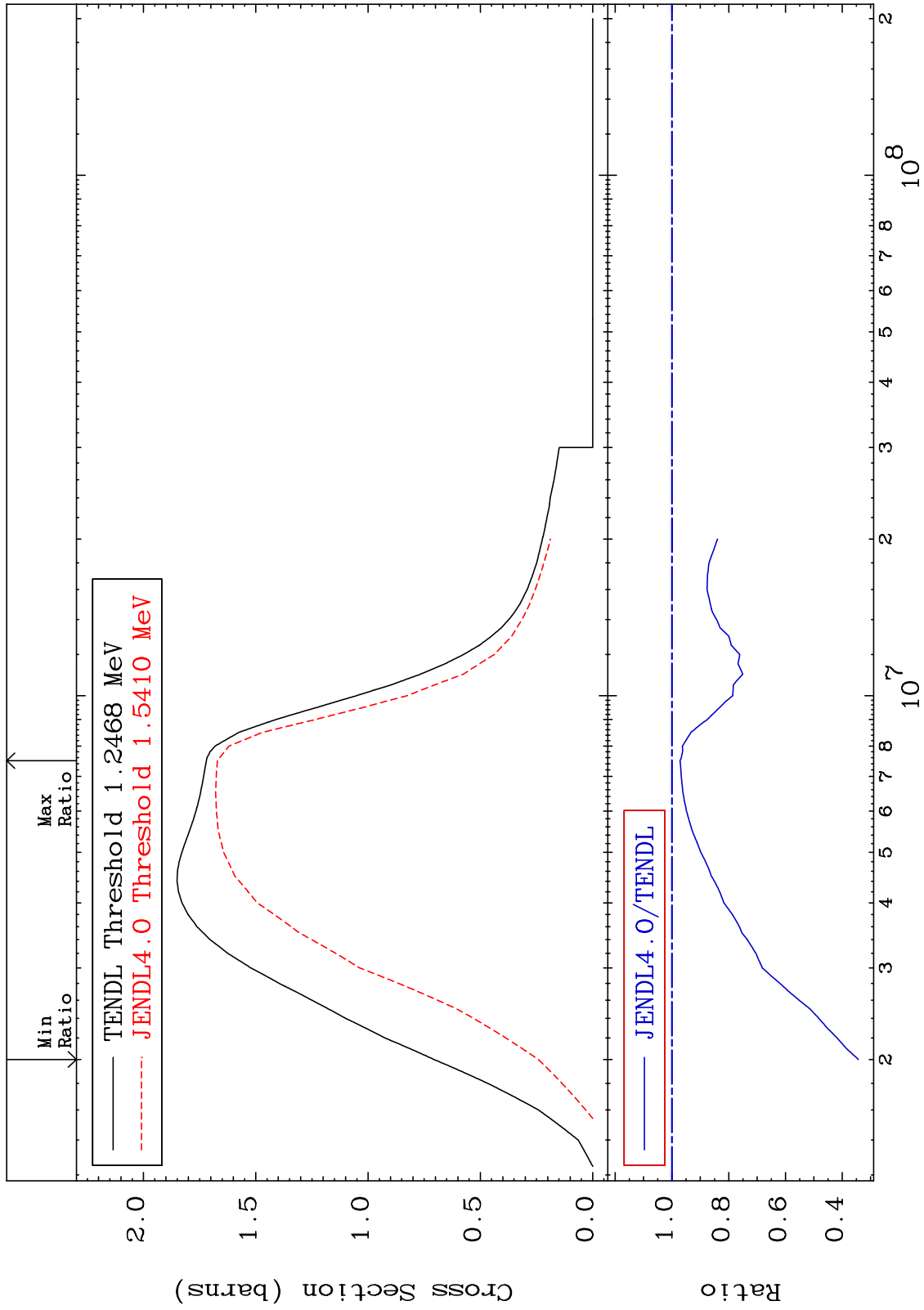
MAT 3434 MT= 80 (n,n') Level Cross Section -57.07 To 9999. % 34-Se-77



MAT 3434

(n, n') Continuum
Cross Section

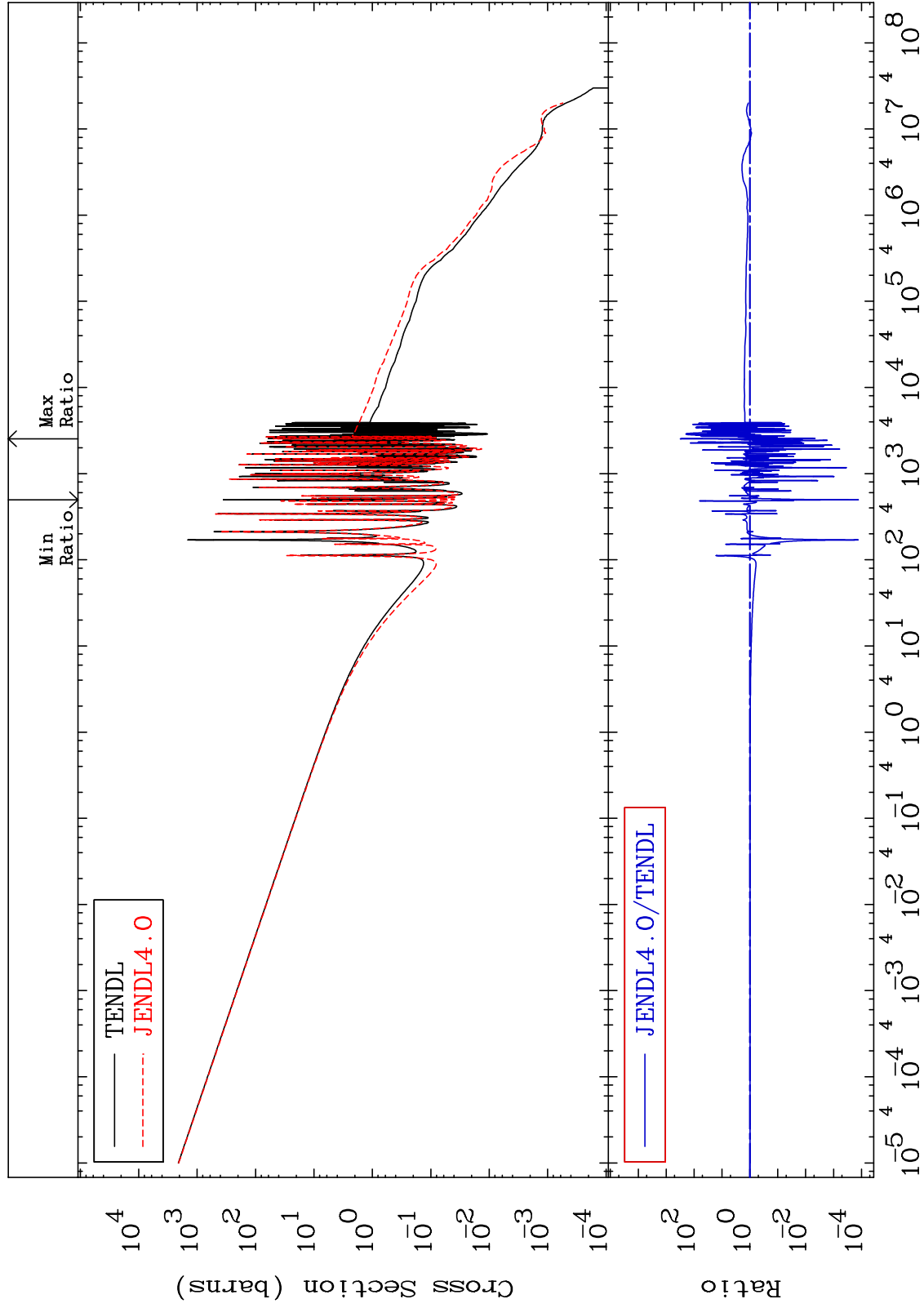
34-Se-77
-65.69 To -2.842%



MAT 3434

(n, γ)
Cross Section

34-Se-77
-99.99 To 9999. %



39

Incident Energy (eV)

34-Se-77

MAT 3434

(n, p)

³⁴Se-77

Cross Section

-42.81 To 394.1 %

Max Ratio

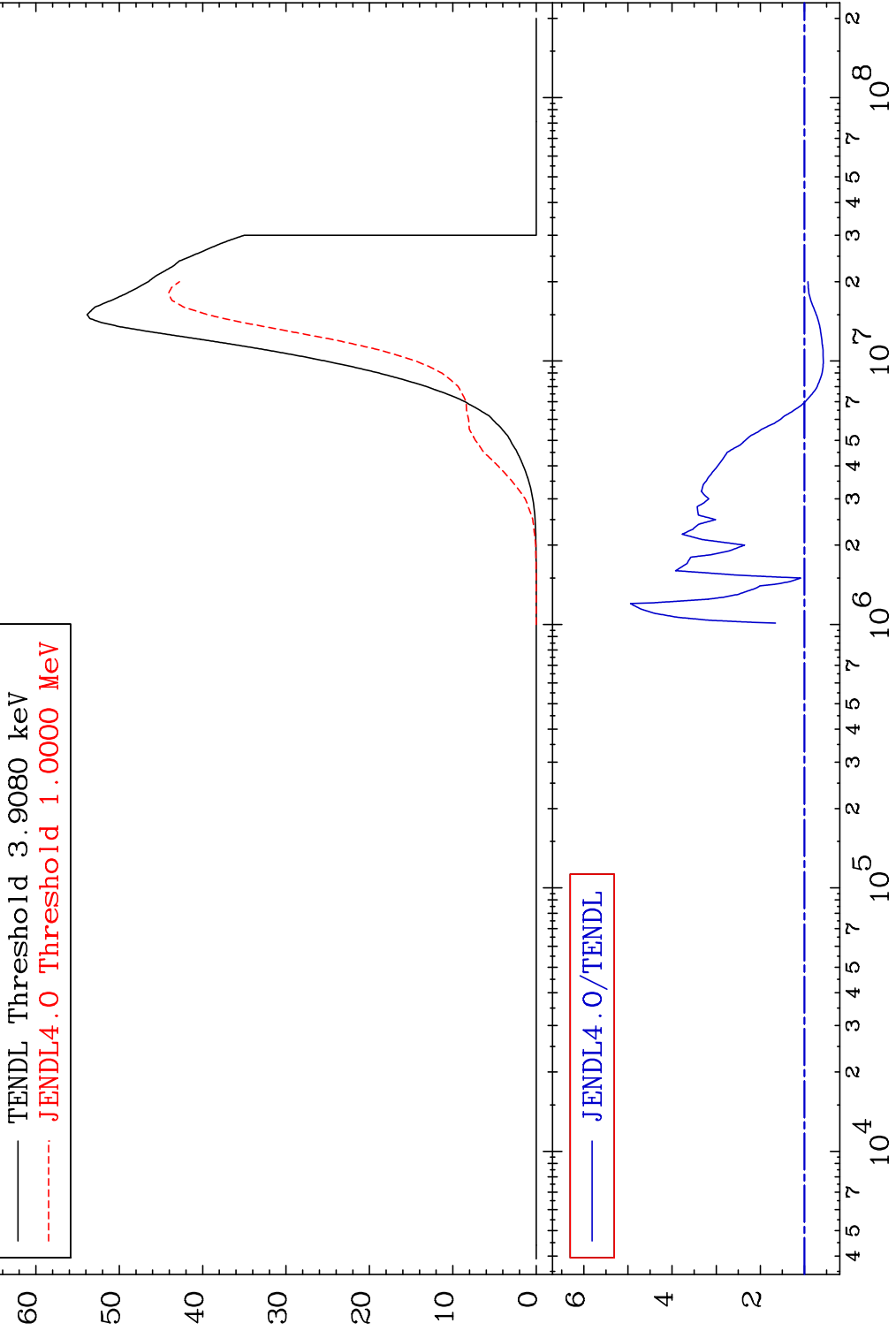
Min Ratio

— TENDL Threshold 3.9080 keV
- - - JENDL4.0 Threshold 1.0000 MeV

— JENDL4.0/TENDL

Cross Section (milli-barns)

Ratio



40

Incident Energy (eV)

³⁴Se-77

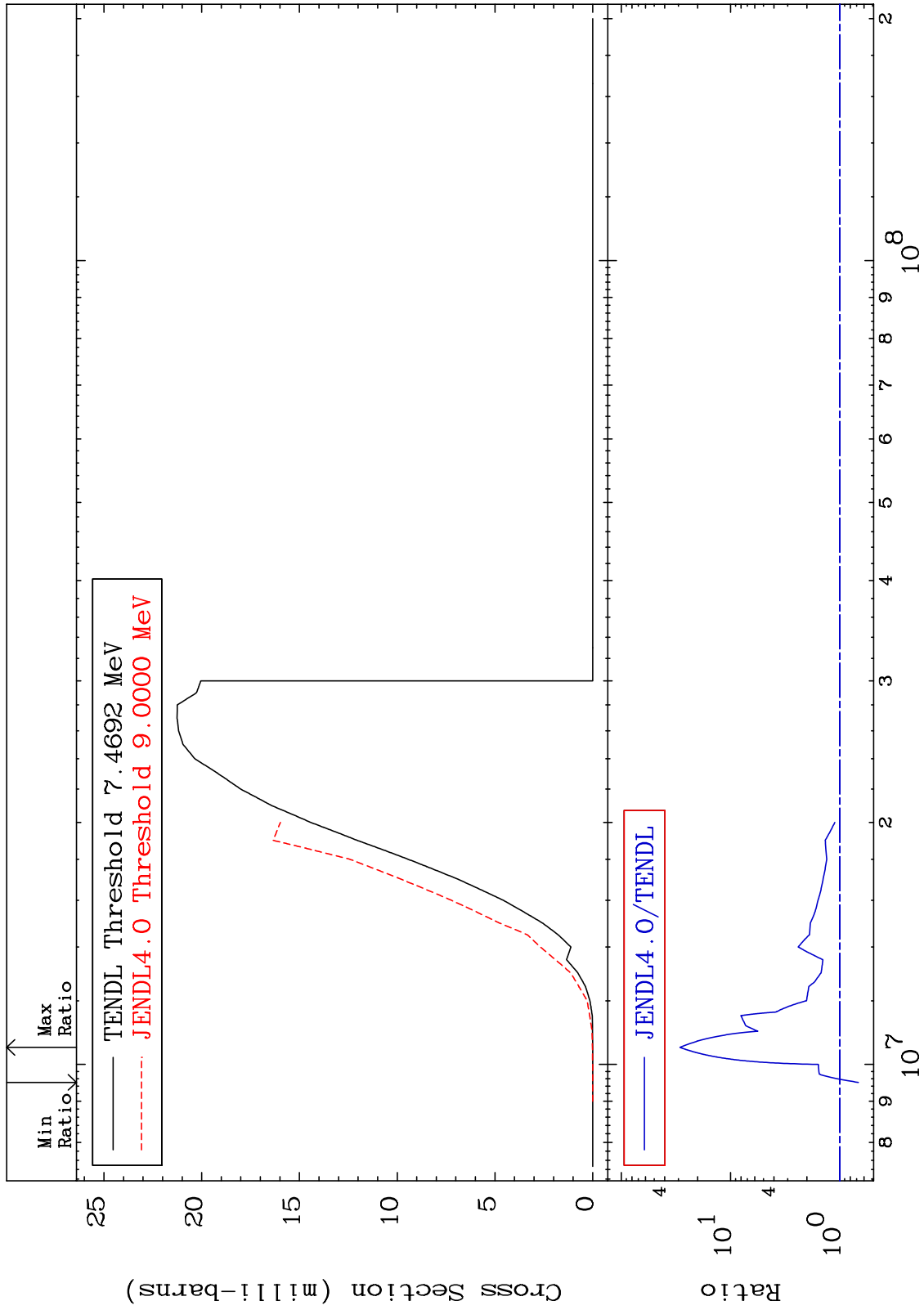
MAT 3434

(n,d)

³⁴Se-77

Cross Section

-32.57 To 2800. %



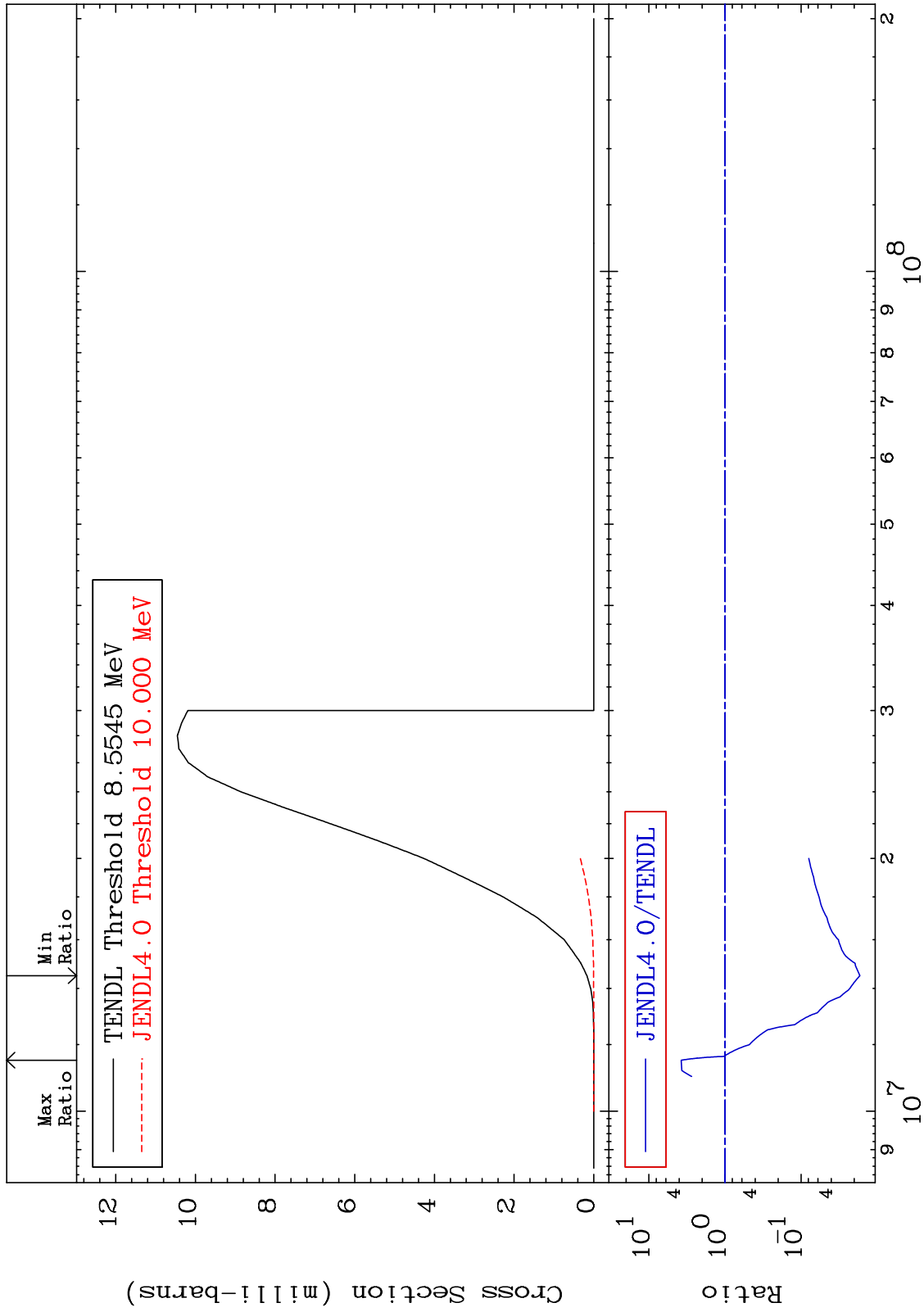
MAT 3434

(n, t)

34-Se-77

Cross Section

-98.32 To 276.1 %



42

Incident Energy (eV)

34-Se-77

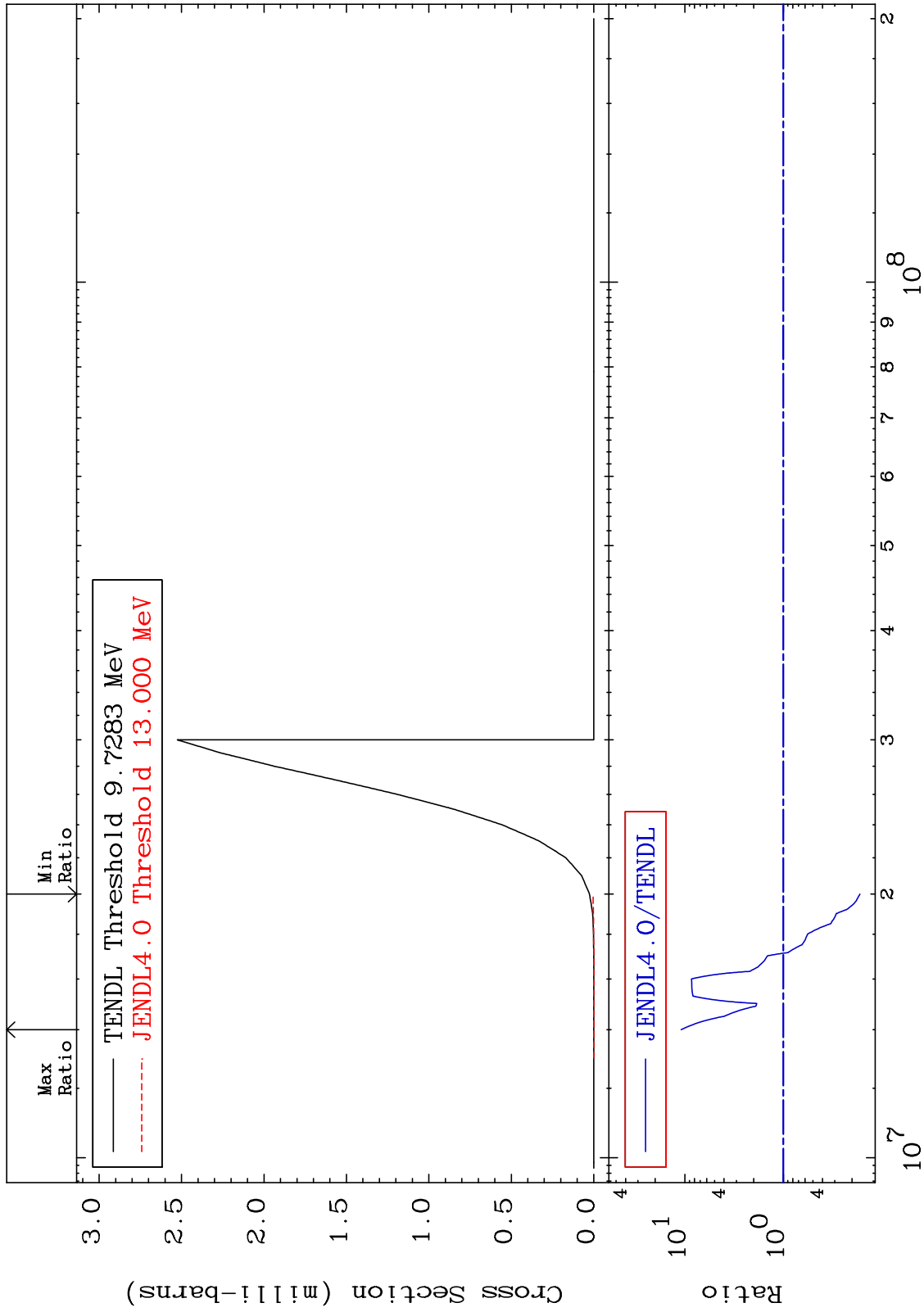
MAT 3434

(n, He-3)

34-Se-77

Cross Section

-83.34 To 988.5 %



Incident Energy (eV)

34-Se-77

43

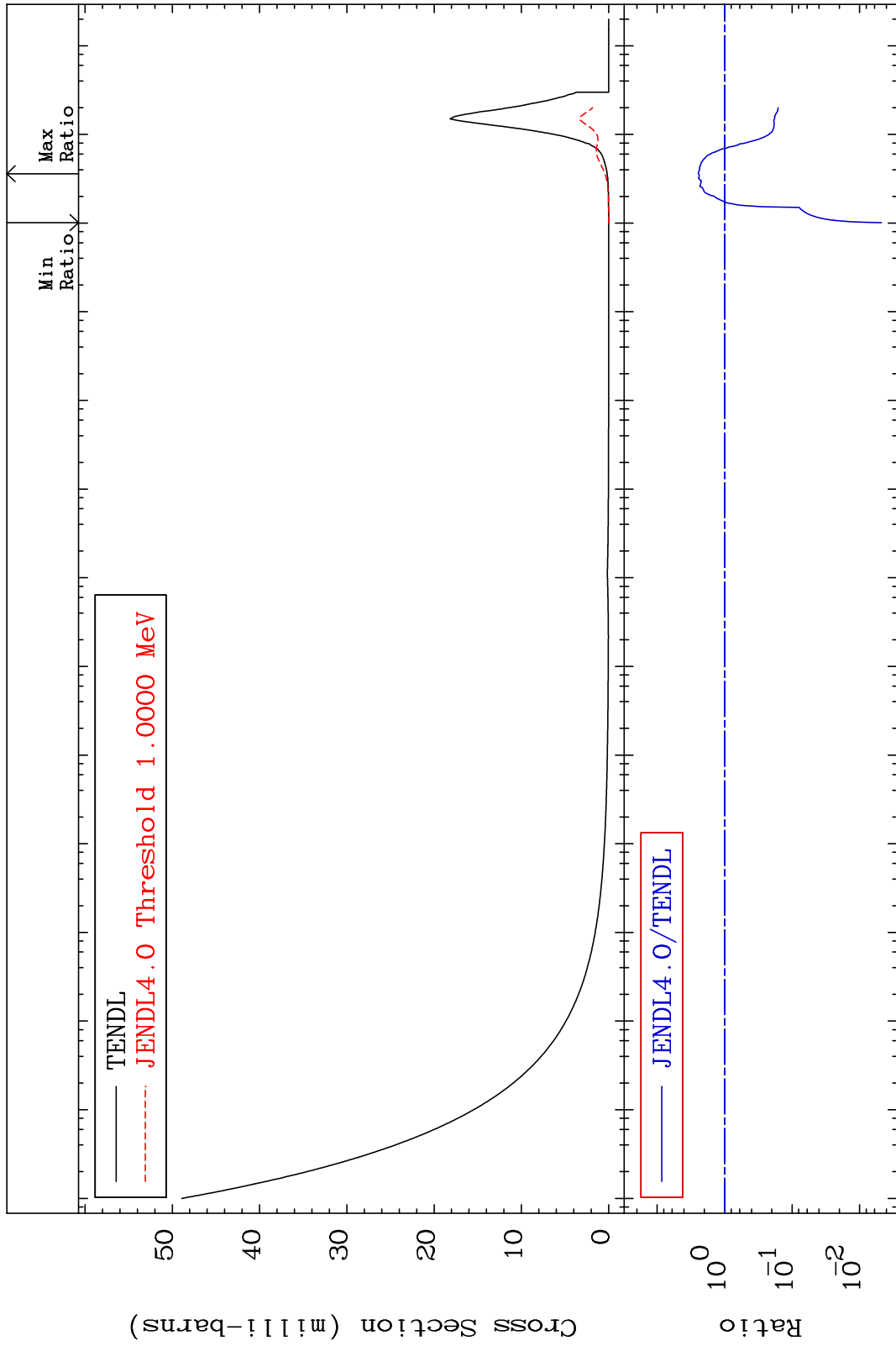
MAT 3434

(n, α)

34-Se-77

Cross Section

-99.53 To 145.3 %



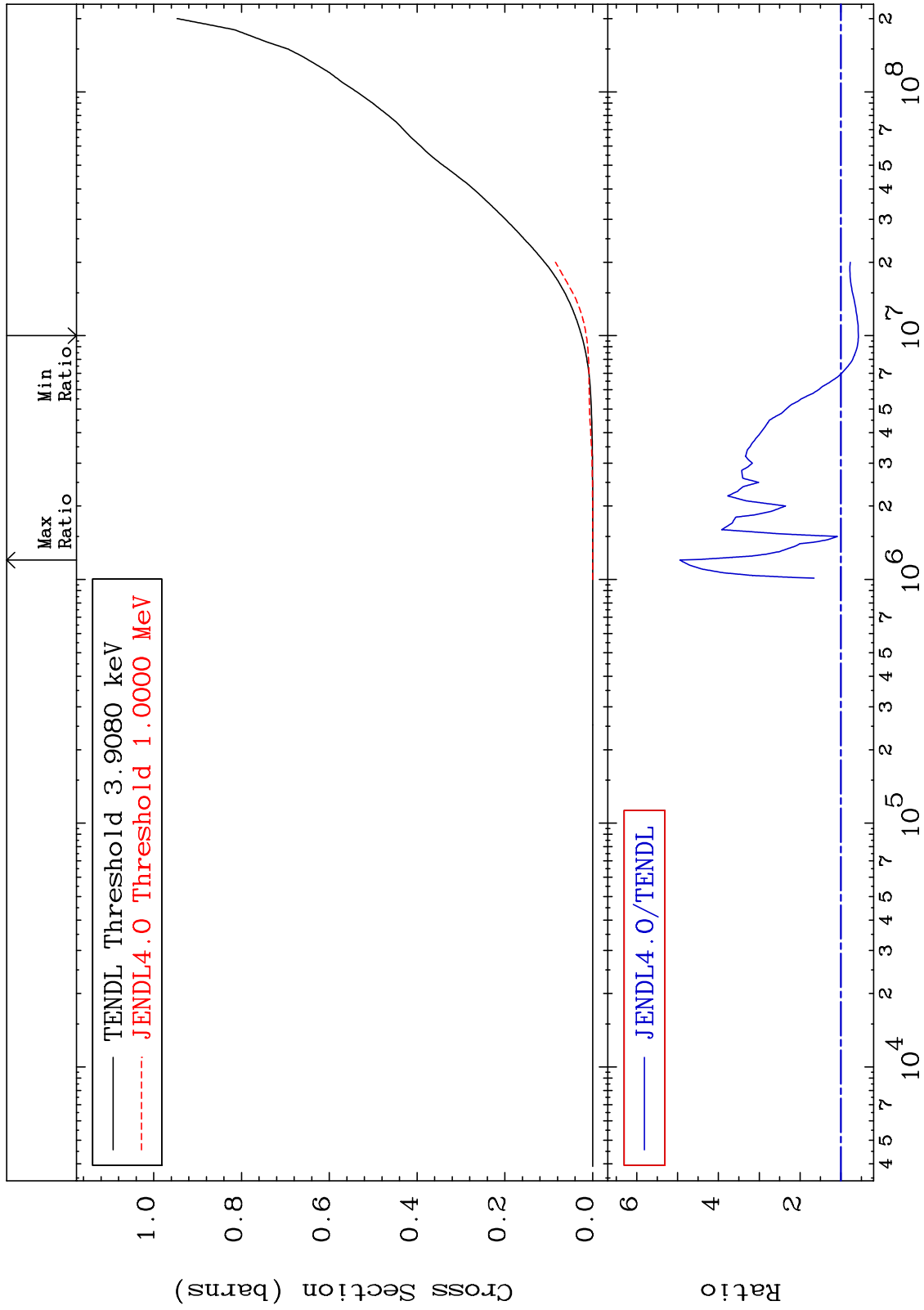
Incident Energy (eV)

34-Se-77

MAT 3434

Hydrogen Production
Cross Section

³⁴Se-77
-42.81 To 394.1 %



45

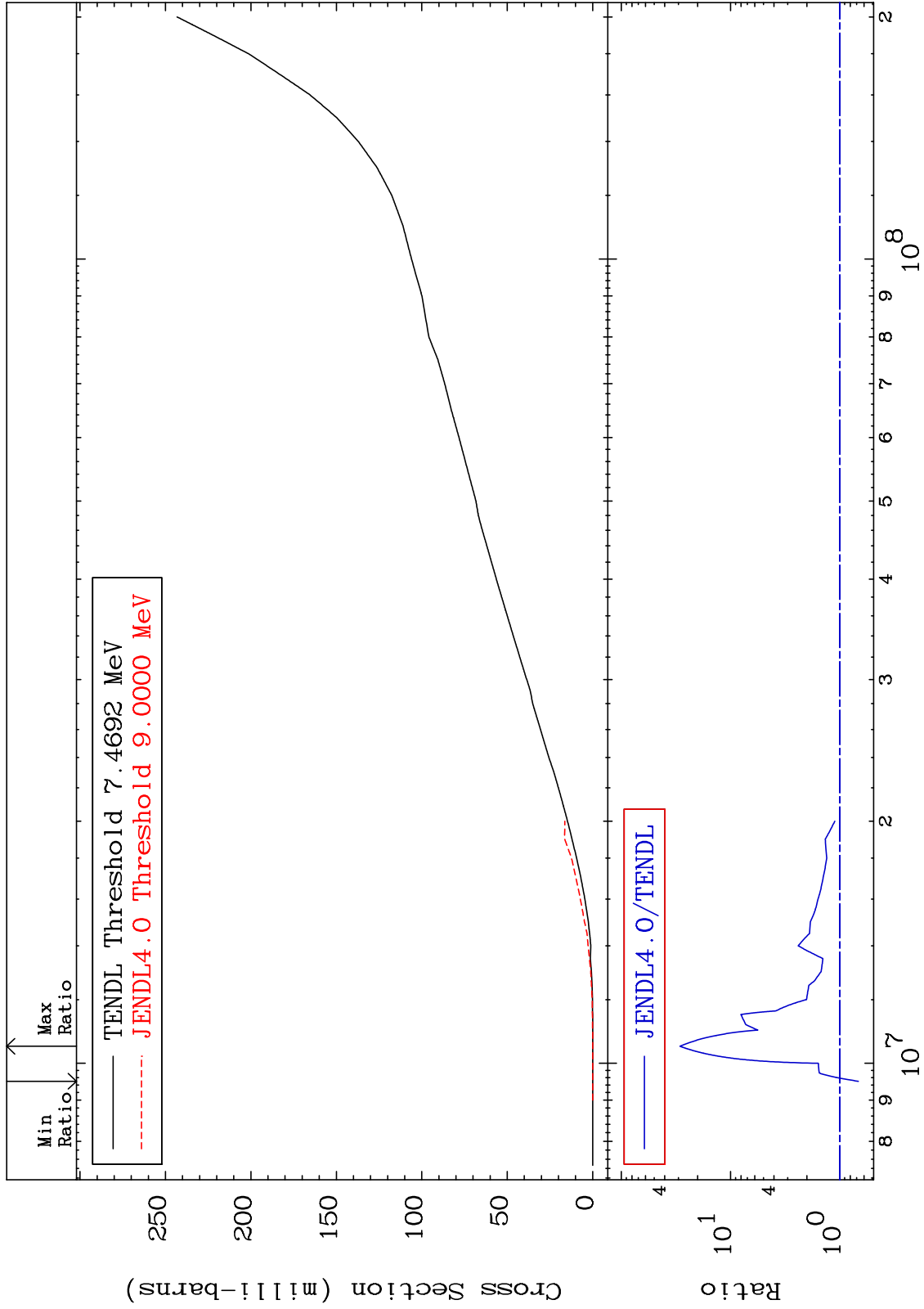
Incident Energy (eV)

³⁴Se-77

MAT 3434

Deuterium Production
Cross Section

³⁴Se-77
-32.57 To 2800. %



46

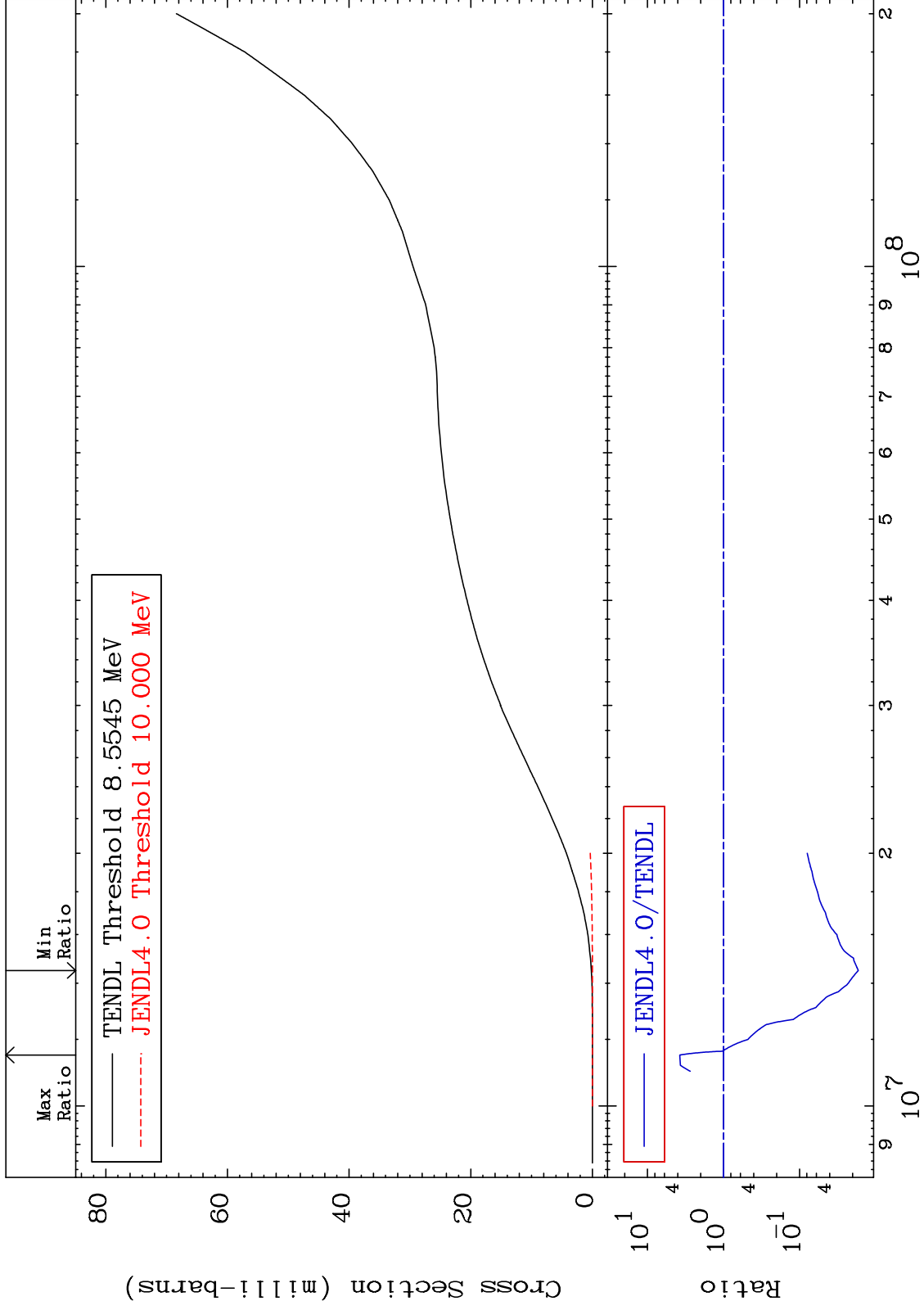
Incident Energy (eV)

³⁴Se-77

MAT 3434

Tritium Production
Cross Section

³⁴Se-77
-98.32 To 276.1 %



47

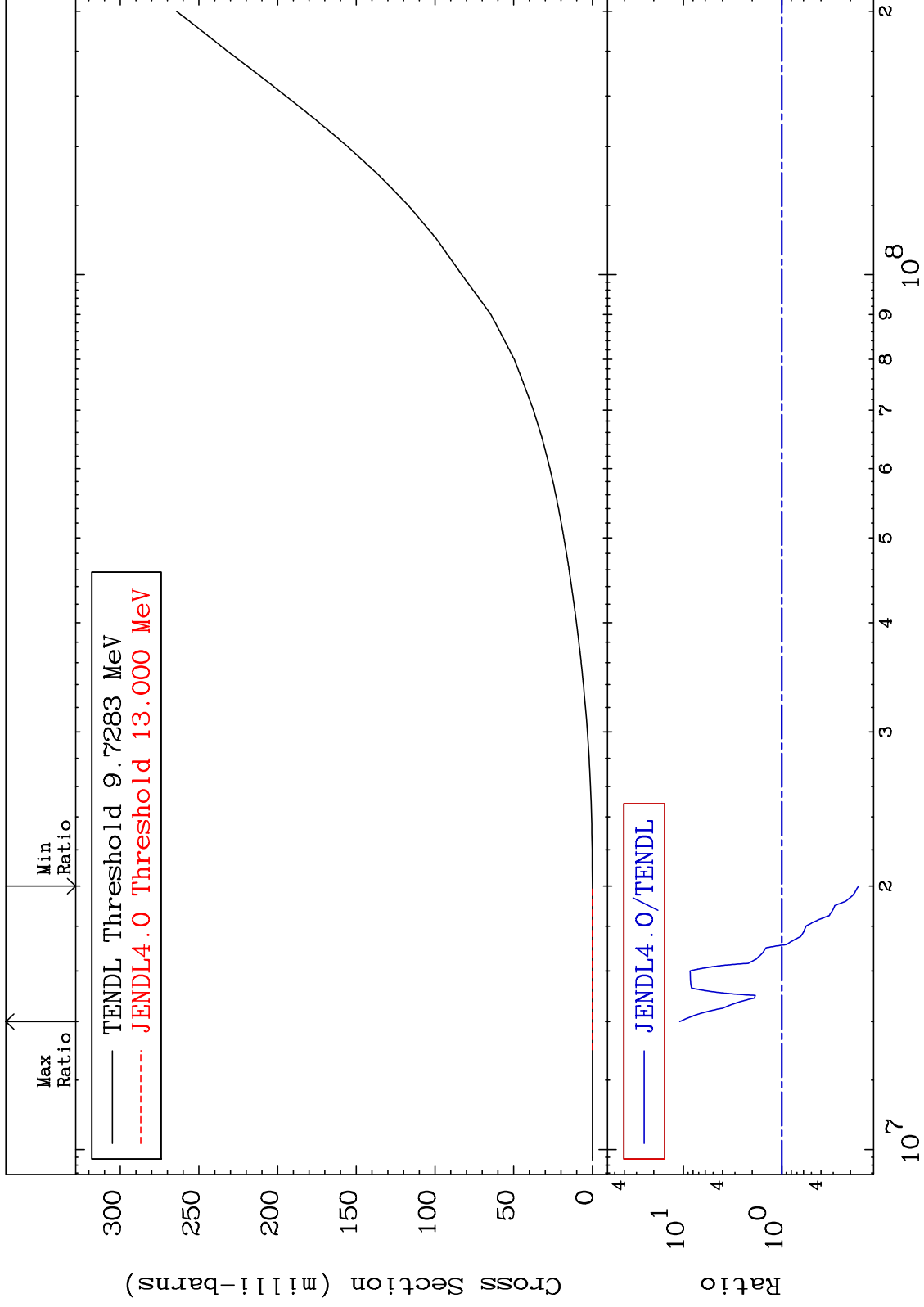
Incident Energy (eV)

³⁴Se-77

MAT 3434

He-3 Production
Cross Section

34-Se-77
-83.34 To 988.5 %



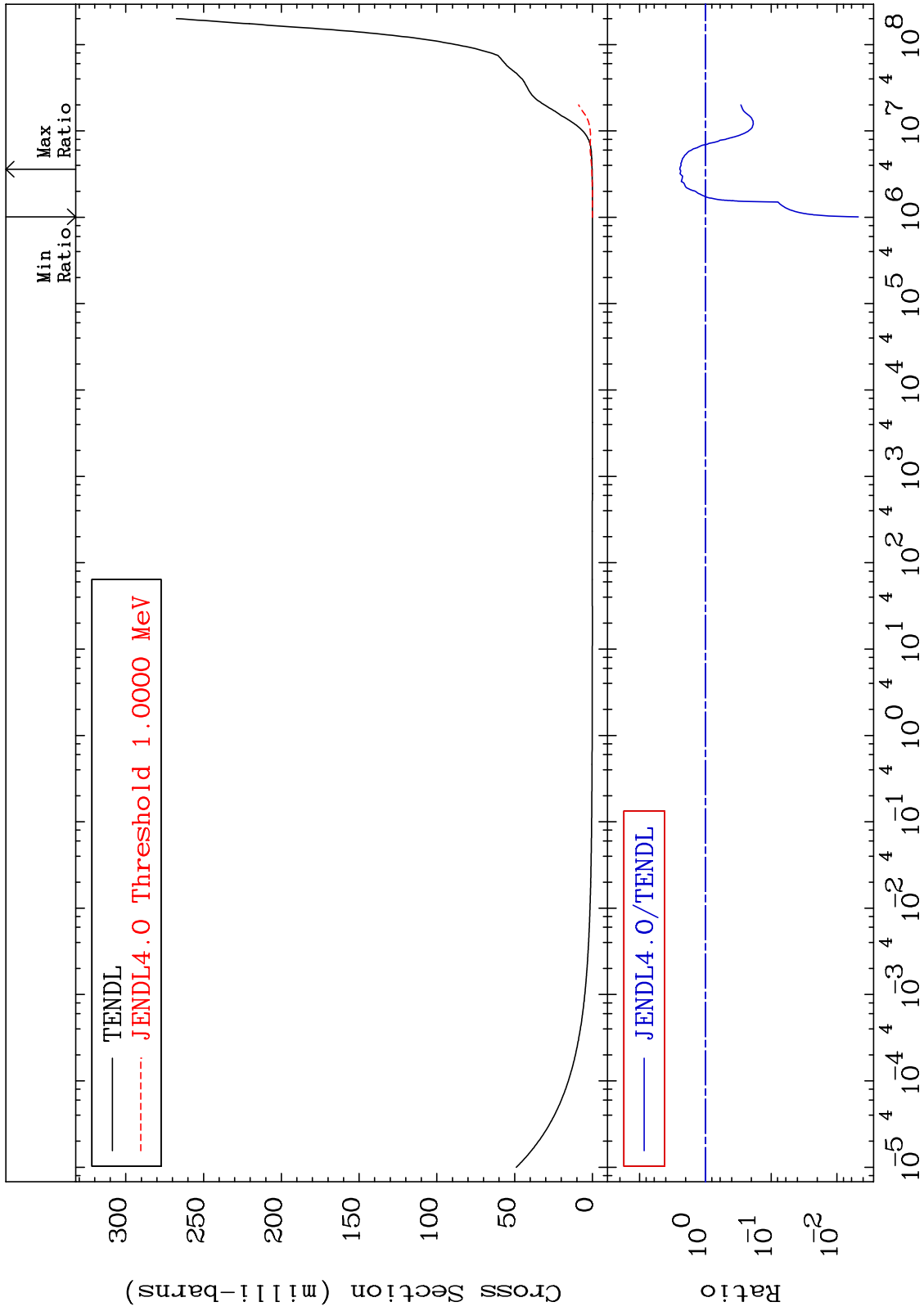
34-Se-77

48

MAT 3434

He-4 Production
Cross Section

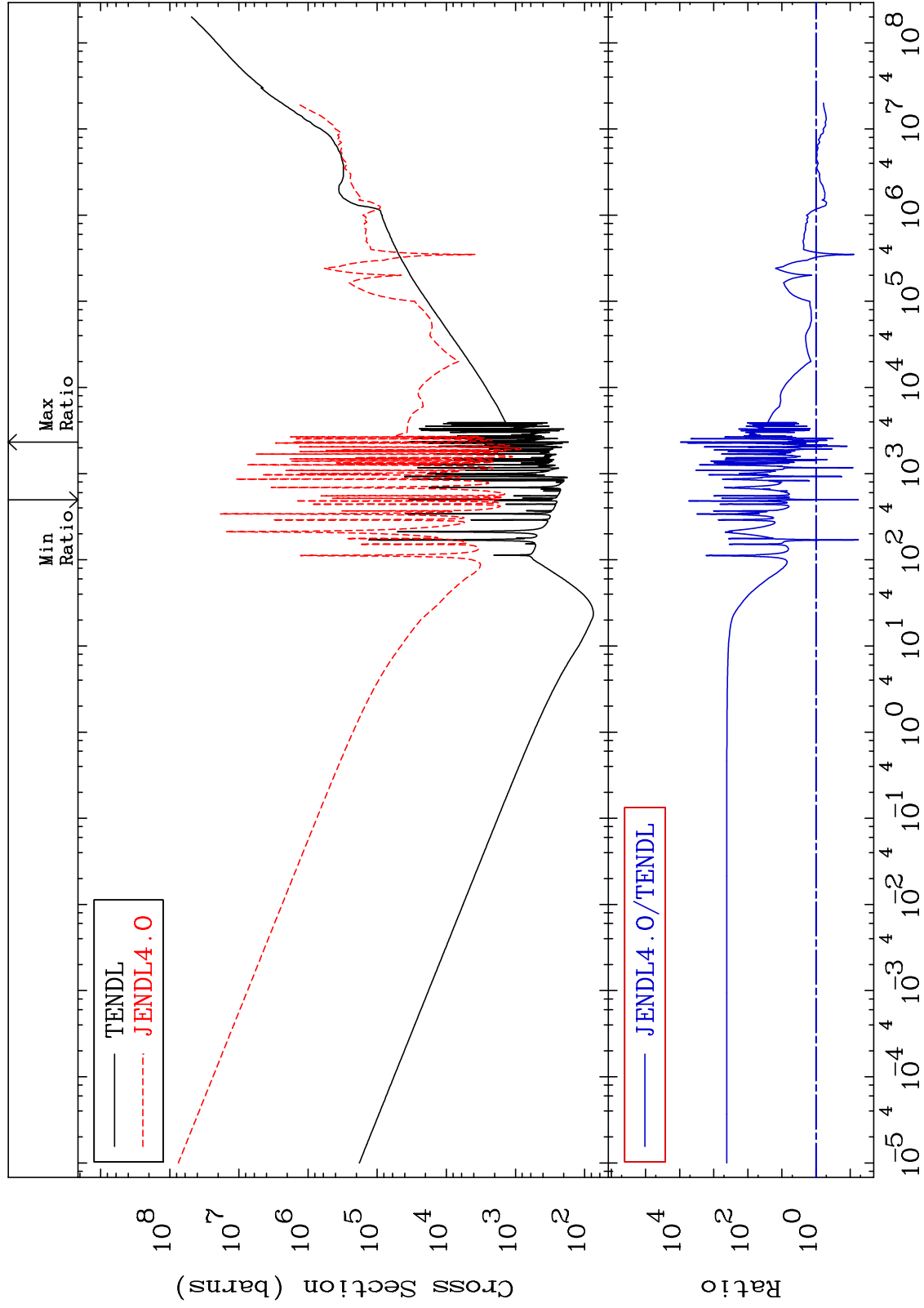
34-Se-77
-99.53 To 145.3 %



MAT 3434

Kerma total (eV-barns)
Cross Section

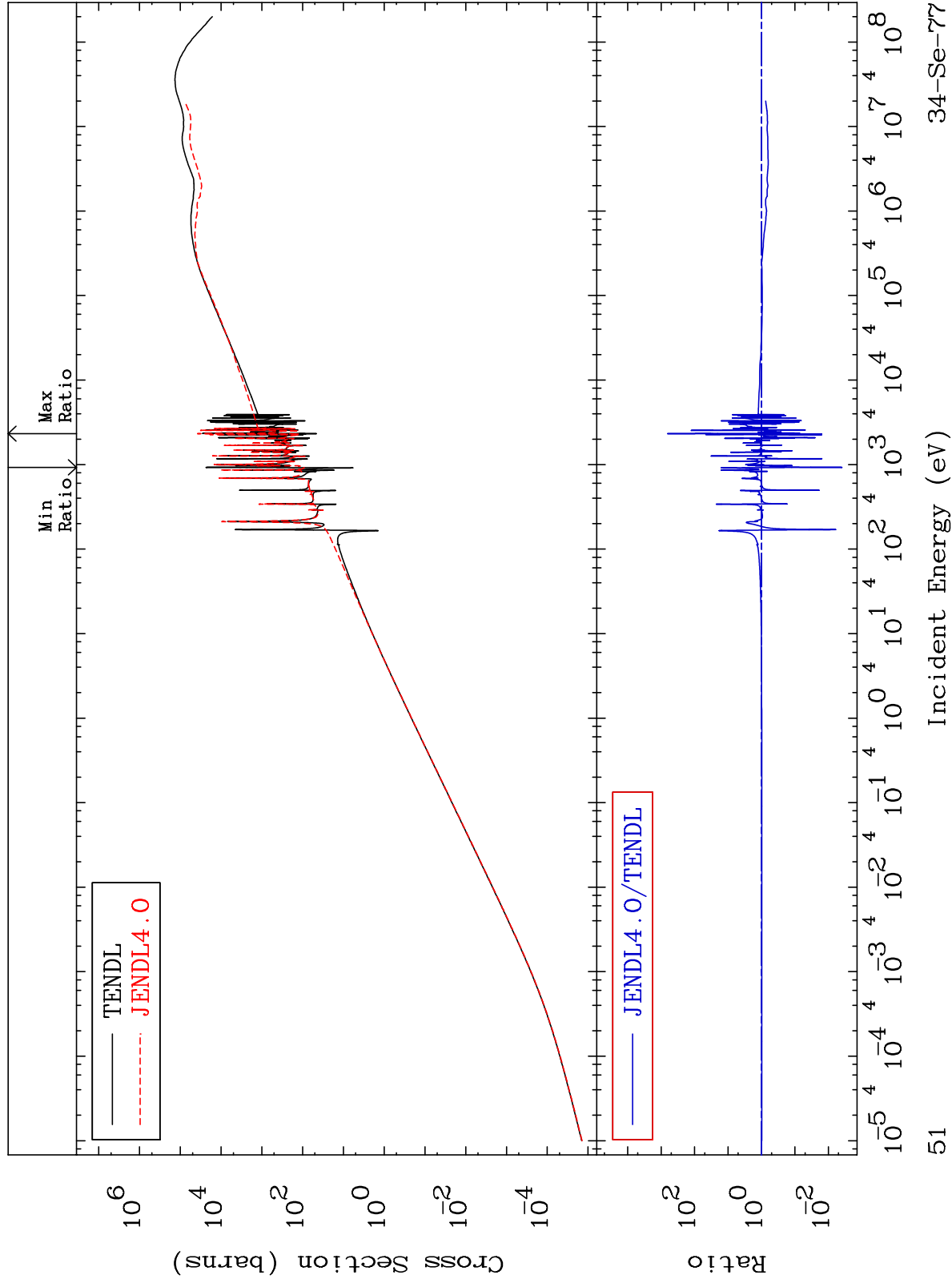
34-Se-77
-94.32 To 9999. %



MAT 3434

Kerma elastic
Cross Section

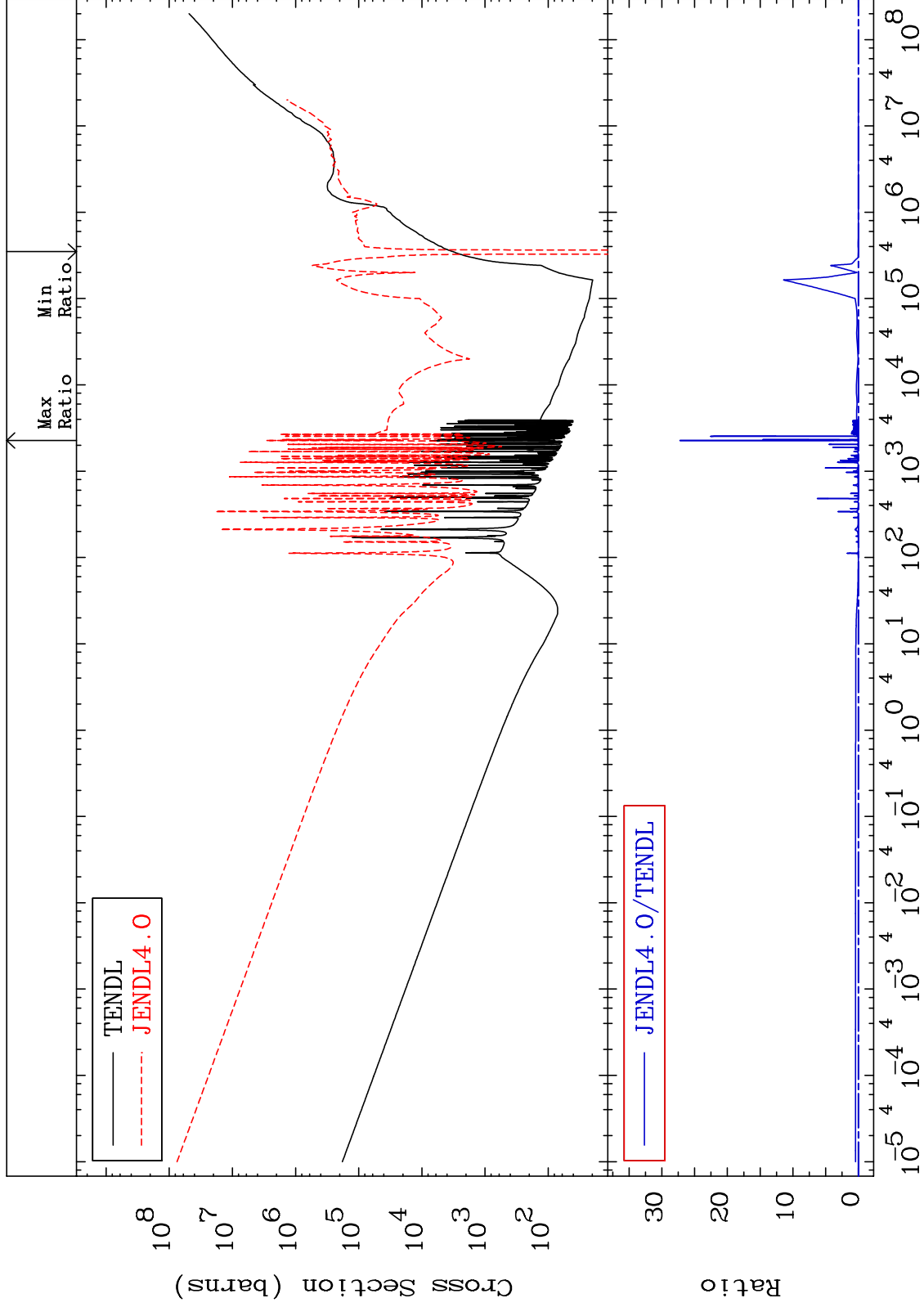
34-Se-77
-99.61 To 9999. %



MAT 3434

Kerma non-elastic (all but mt2)
Cross Section

34-Se-77
-1270. To 9999. %



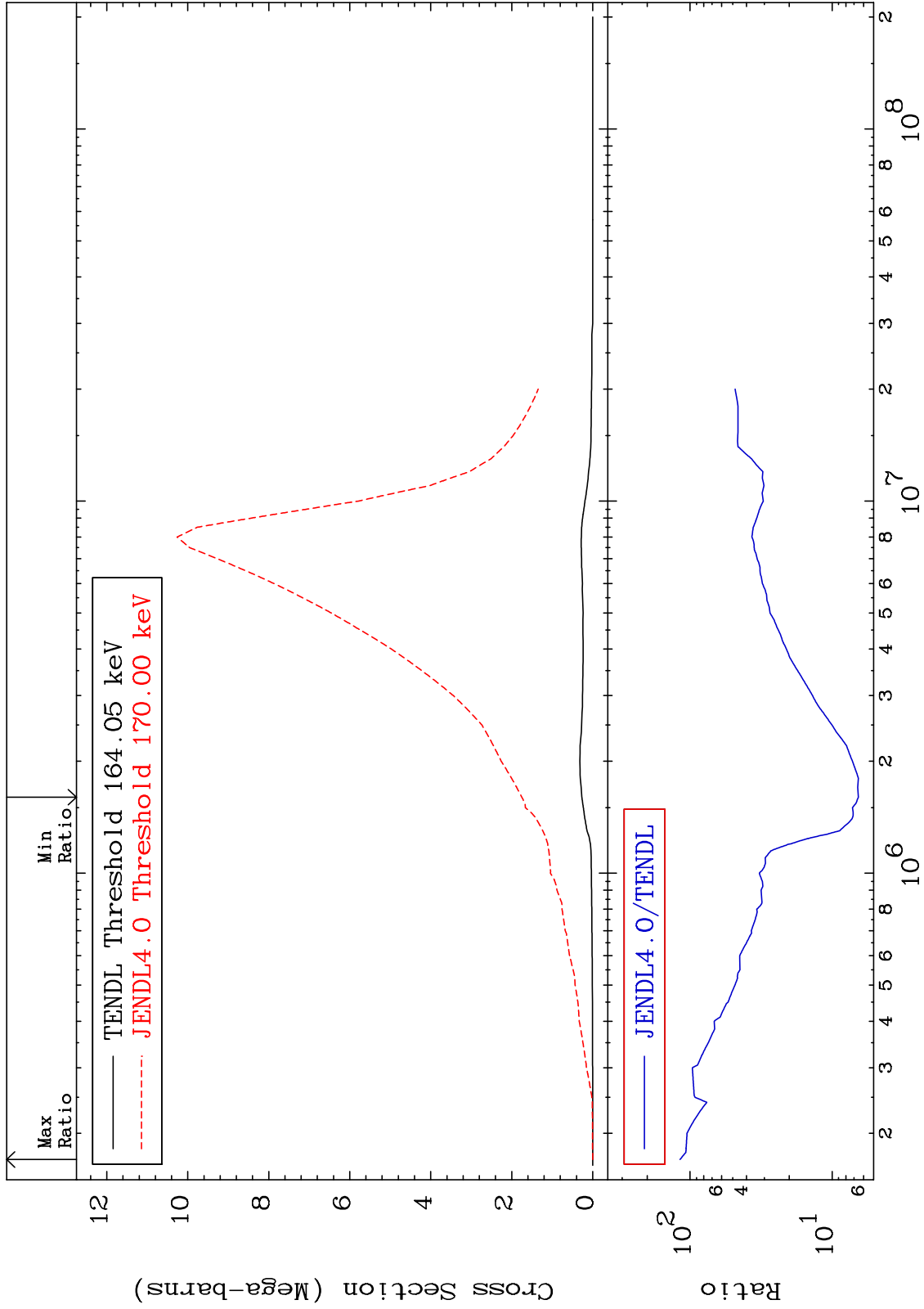
52

34-Se-77

MAT 3434

Kerma inelastic (mt51-91)
Cross Section

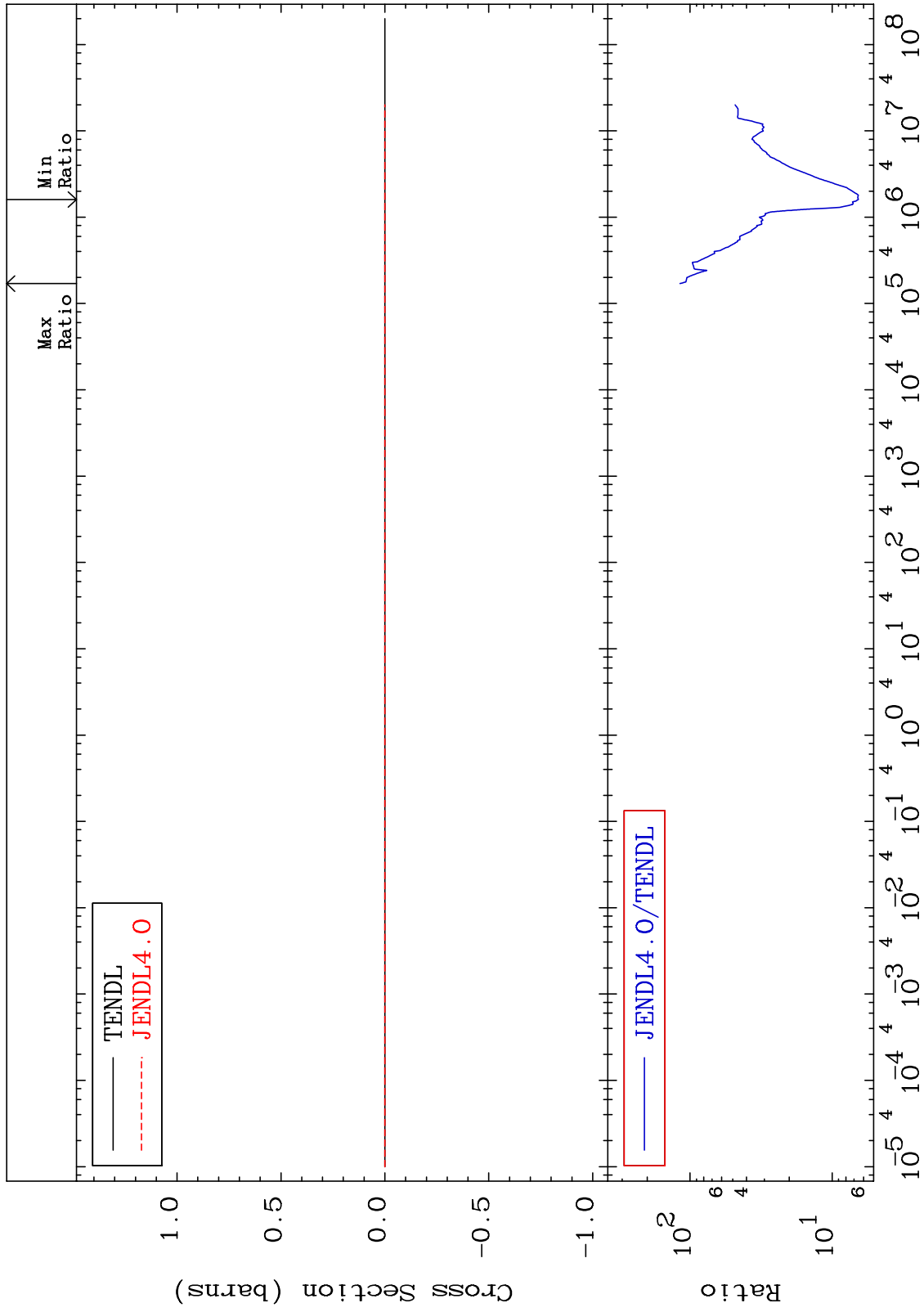
34-Se-77
552.8 To 9999. %



MAT 3434

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

34-Se-77
552.8 To 9999. %



54

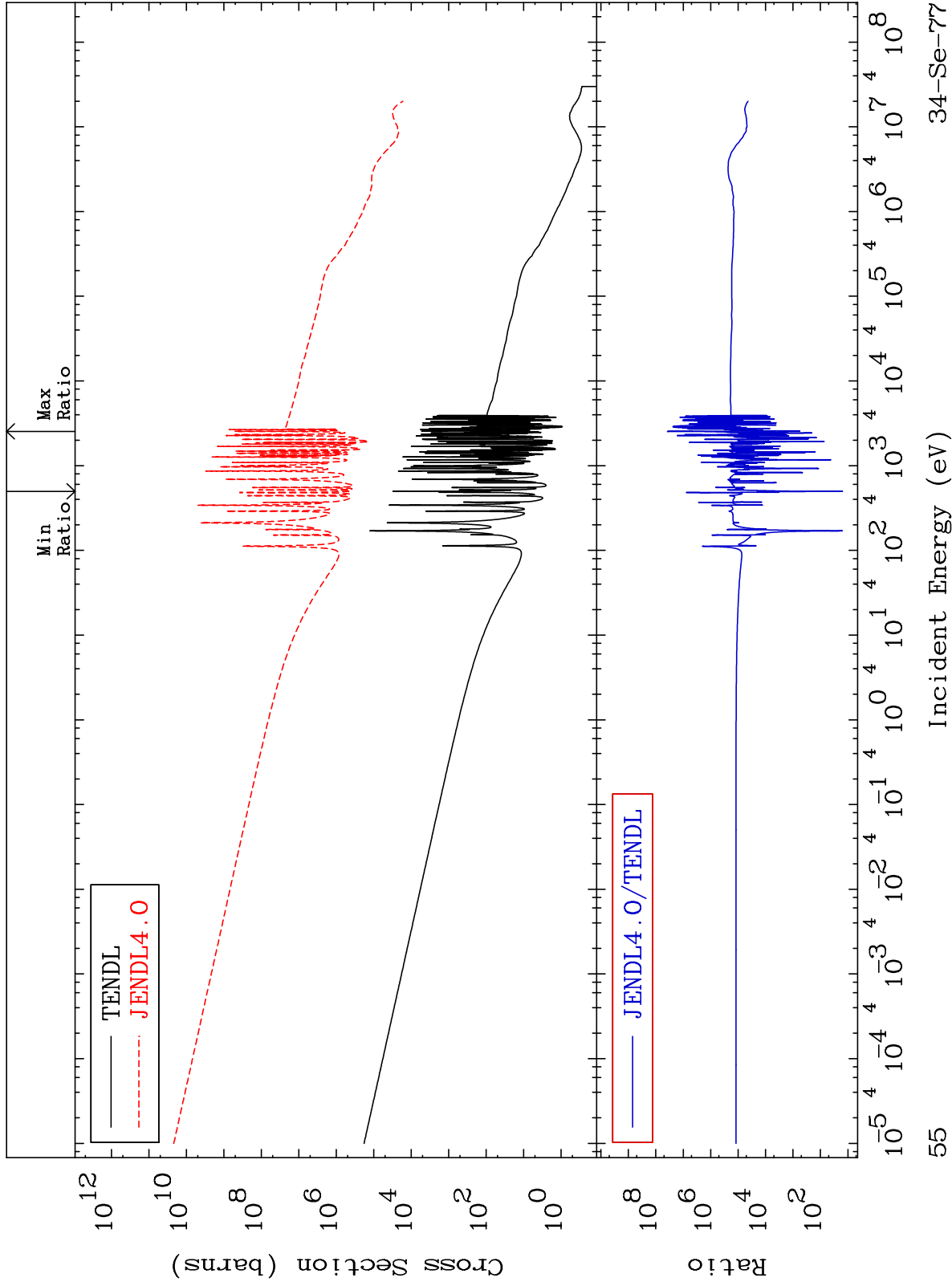
Incident Energy (eV)

34-Se-77

MAT 3434

Kerma capture (mt102)
Cross Section

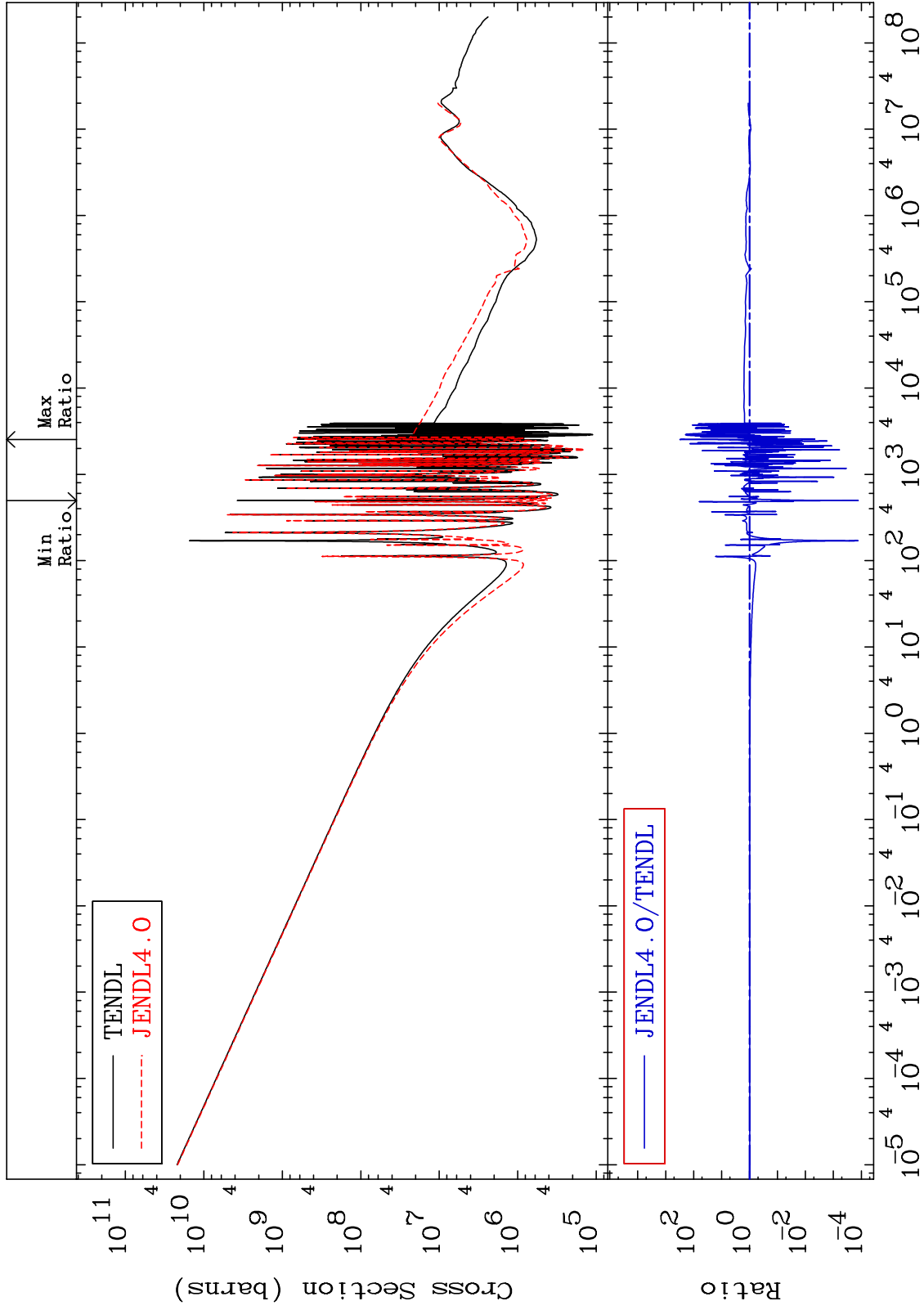
34-Se-77
1448. To 9999. %



MAT 3434

Total photon (eV-barns)
Cross Section

34-Se-77
-99.99 To 9999. %



56

Incident Energy (eV)

34-Se-77

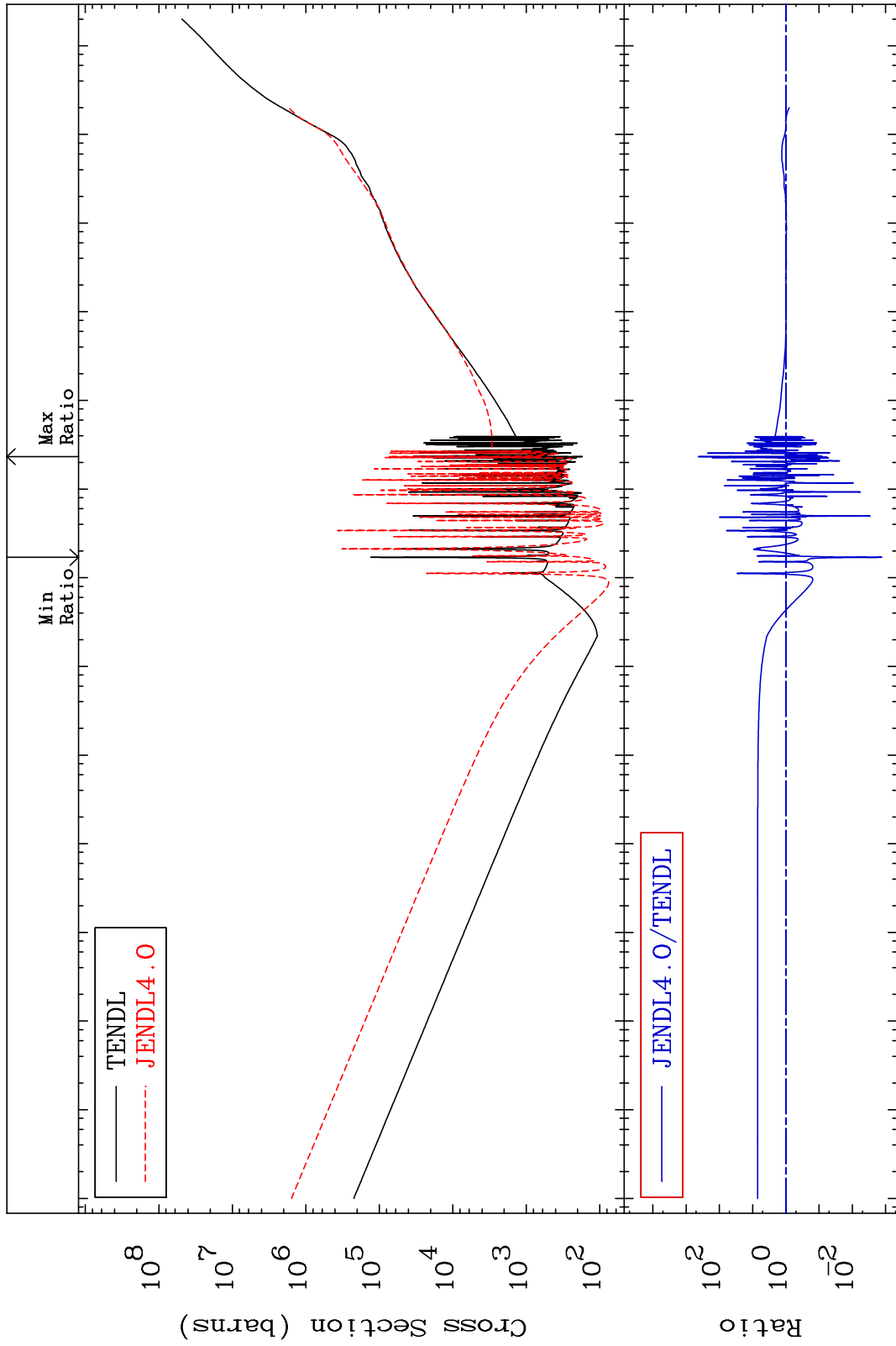
MAT 3434

Total kinematic kerma (high limit)

34-Se-77

-99.87 To 9999. %

Cross Section



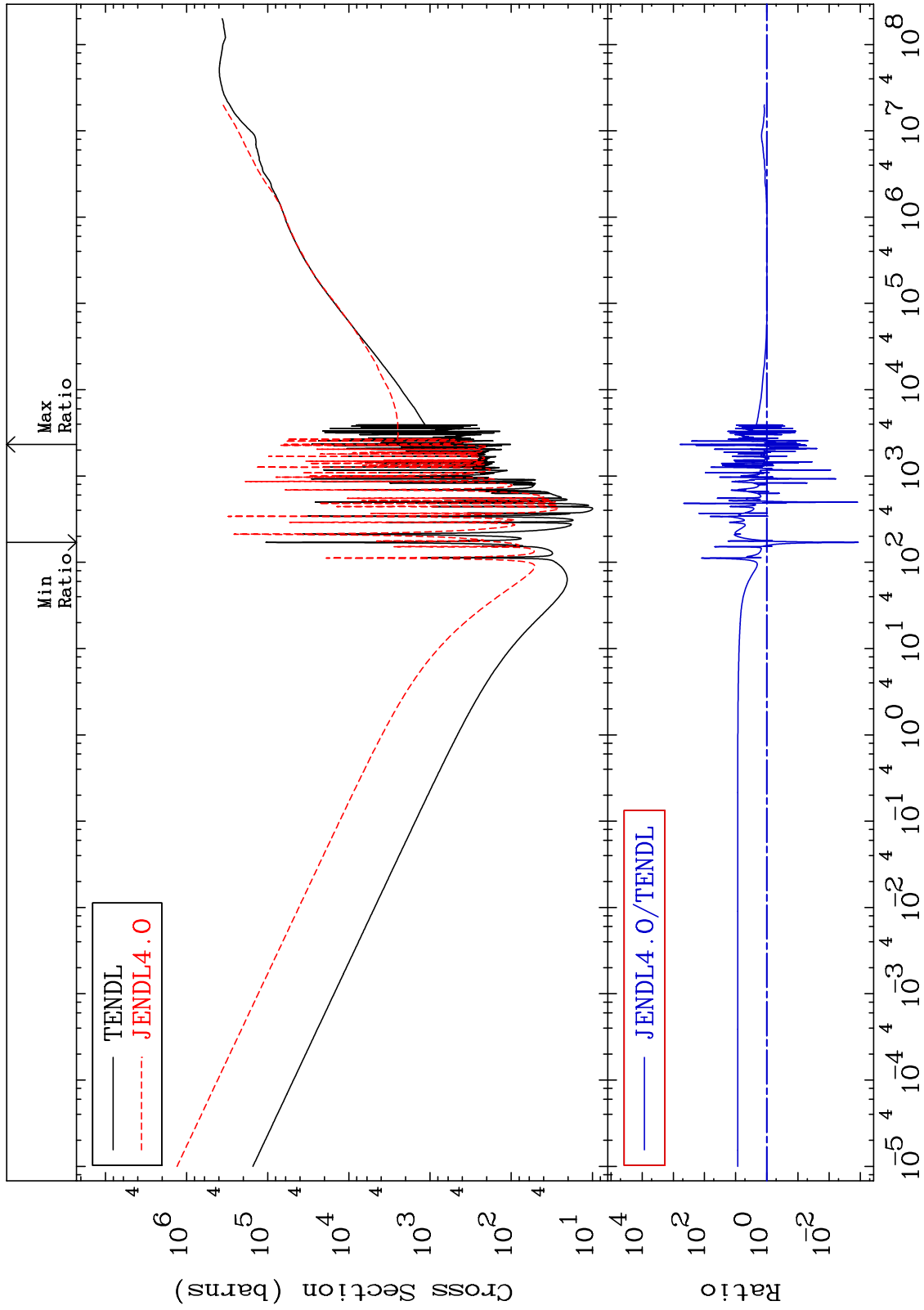
Incident Energy (eV)

34-Se-77

MAT 3434

Dpa total (eV-barns)
Cross Section

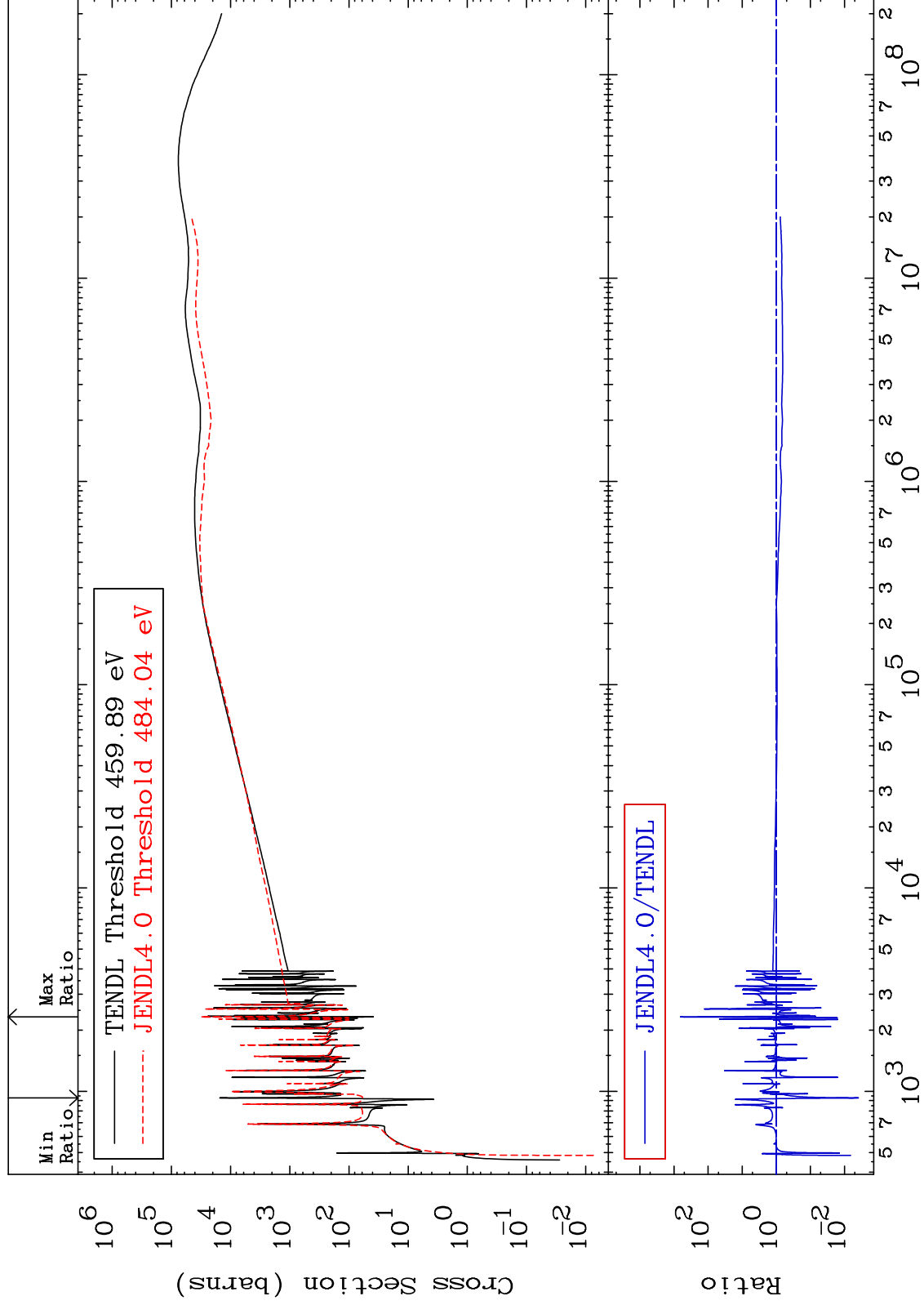
34-Se-77
-99.88 To 9999. %



MAT 3434

Dpa elastic (mt2)
Cross Section

34-Se-77
-99.61 To 9999. %



59

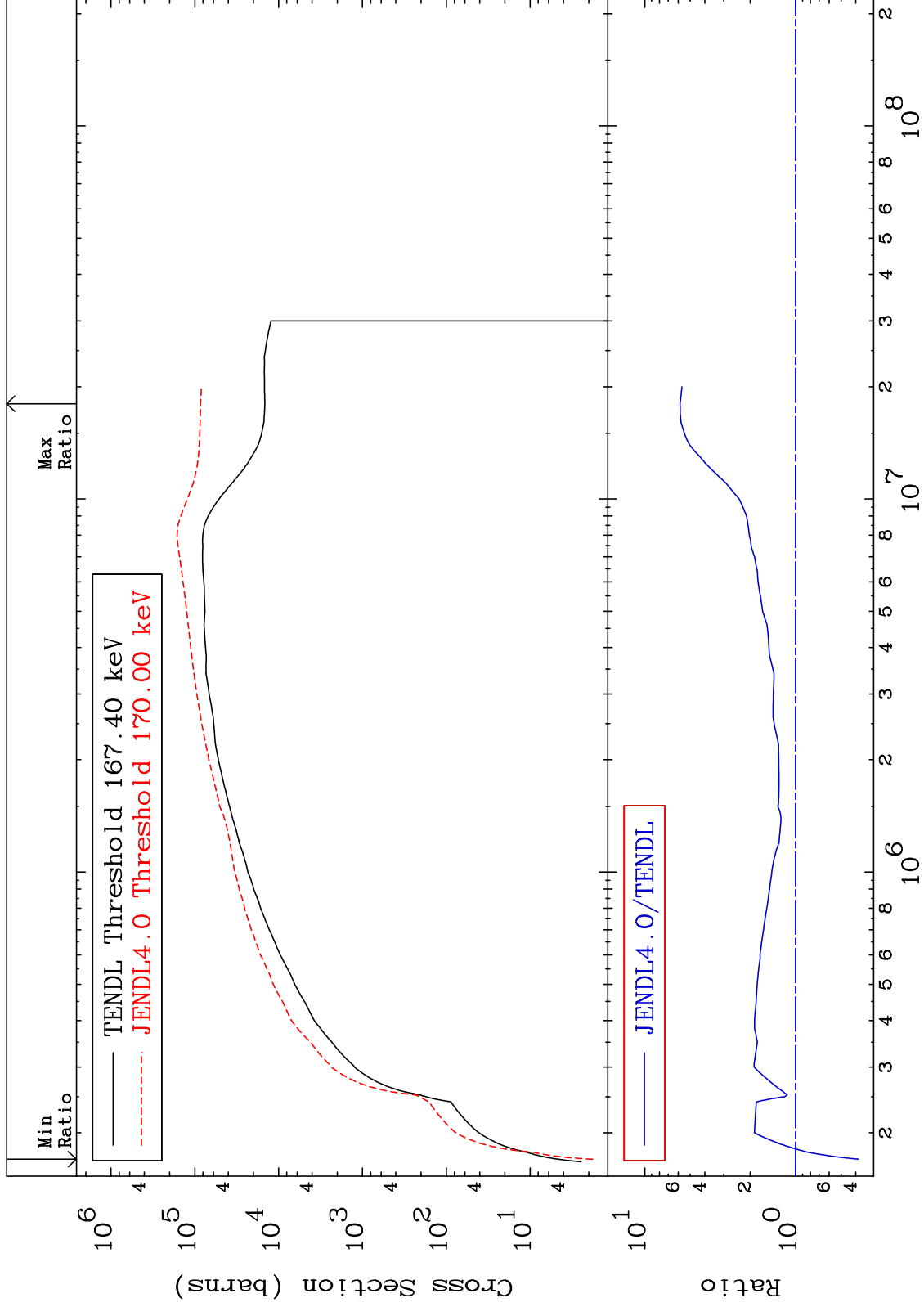
34-Se-77

34-Se-77

MAT 3434

Dpa inelastic (mt51-91)
Cross Section

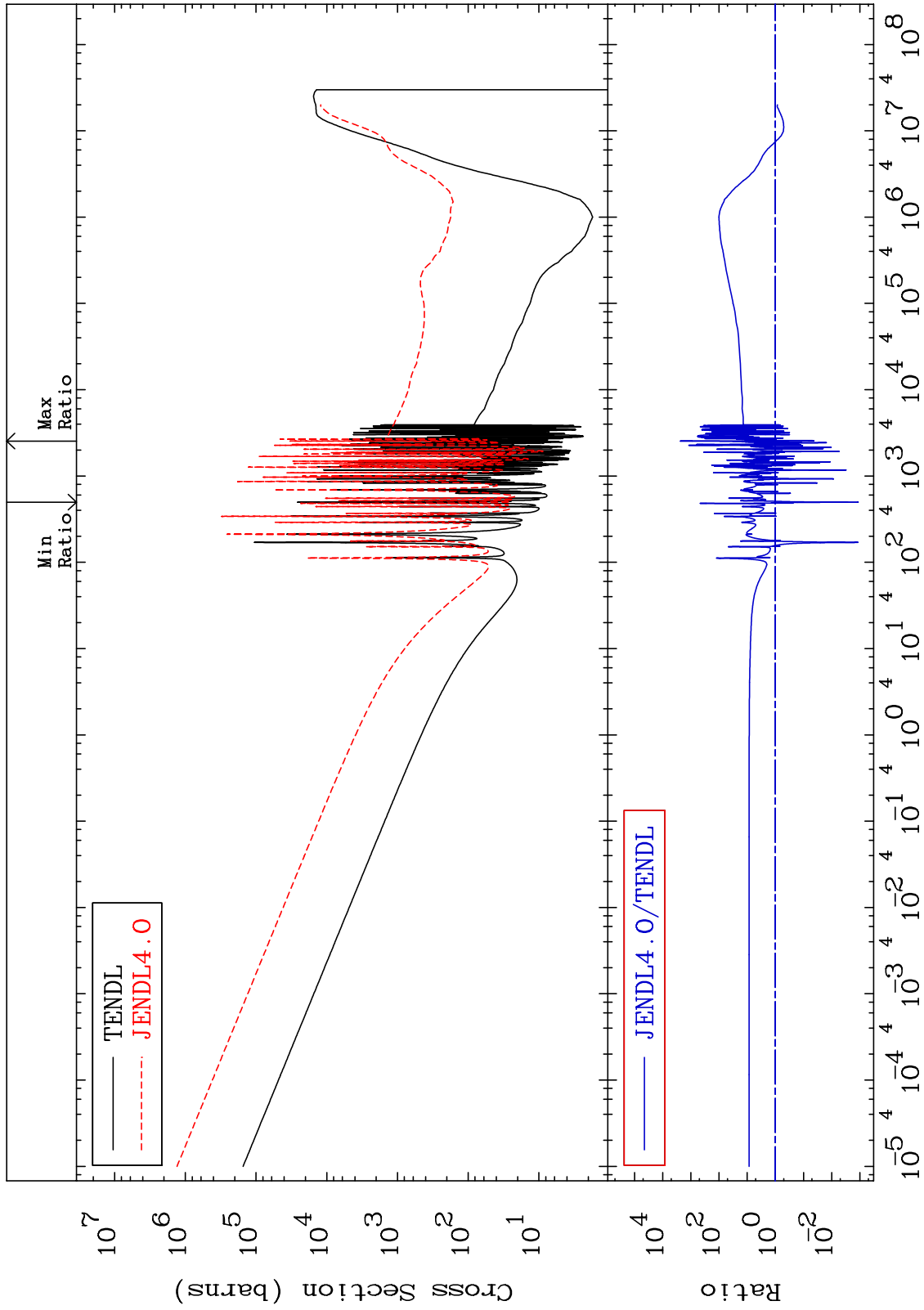
34-Se-77
-61.60 To 484.1 %



MAT 3434

Dpa disappearance (mt102 -120)
Cross Section

34-Se-77
-99.89 To 9999. %



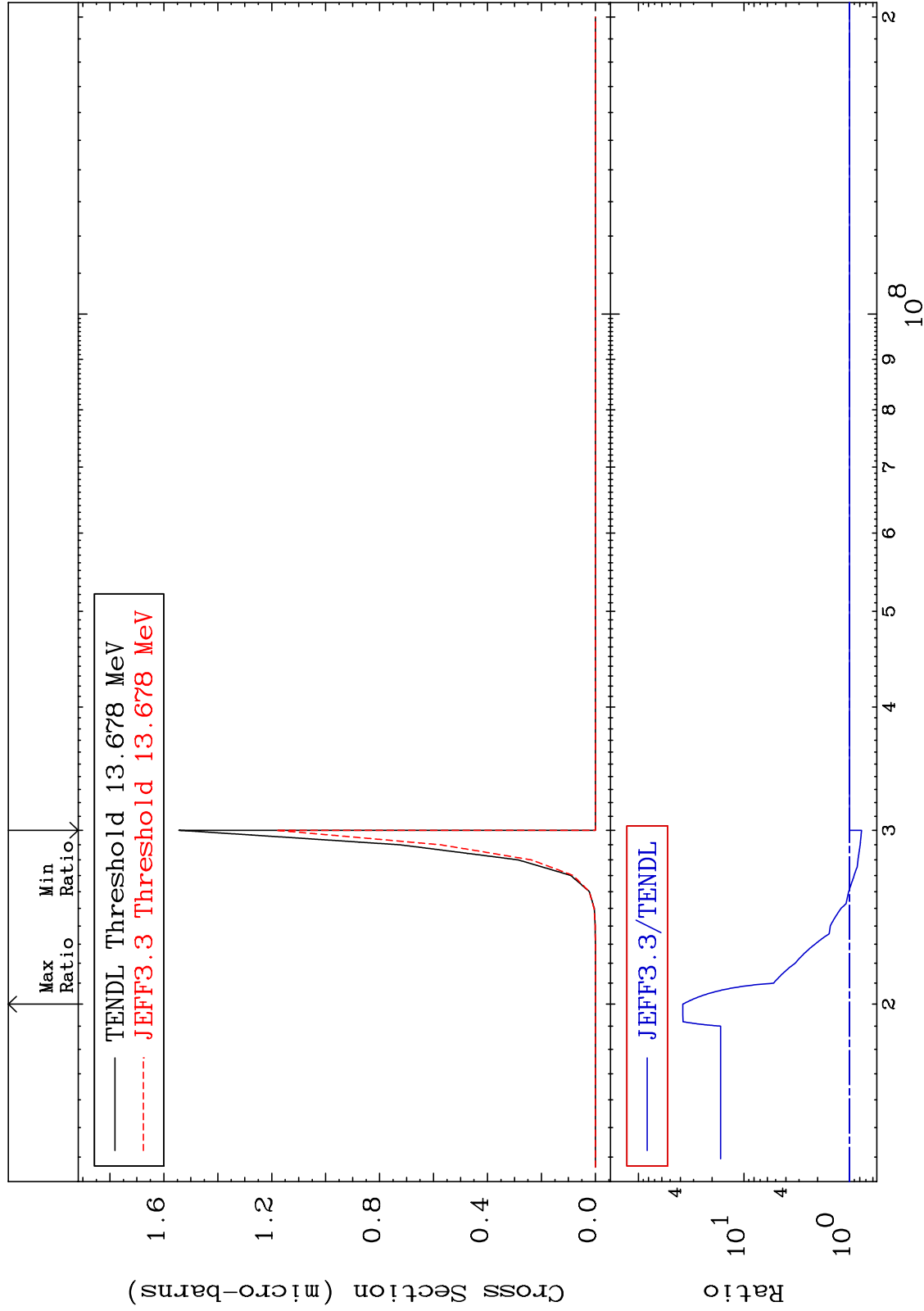
MAT 3434

(n,d) α

³⁴Se-77

Cross Section

-23.24 To 3687. %



62

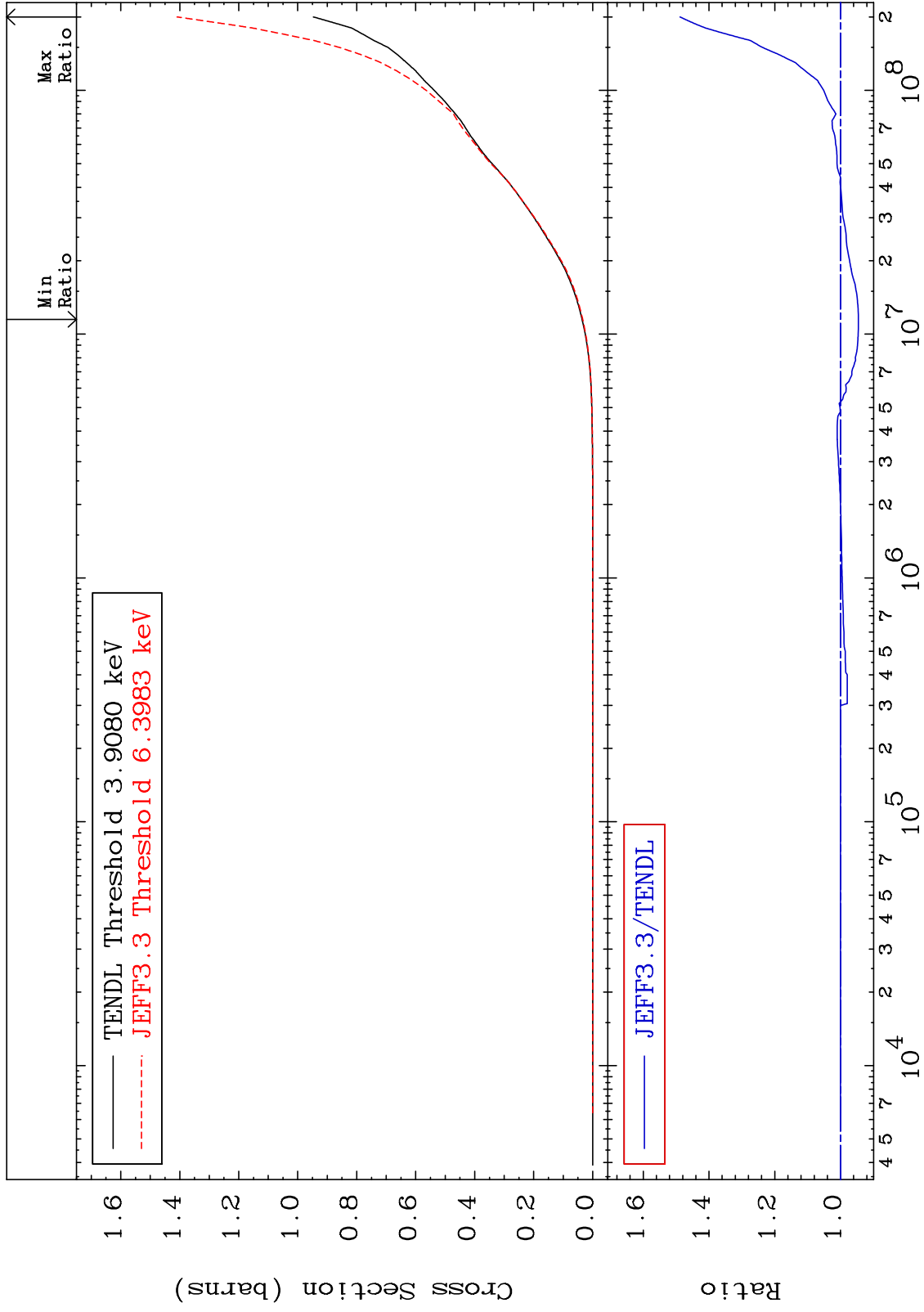
Incident Energy (eV)

³⁴Se-77

MAT 3434

Hydrogen Production
Cross Section

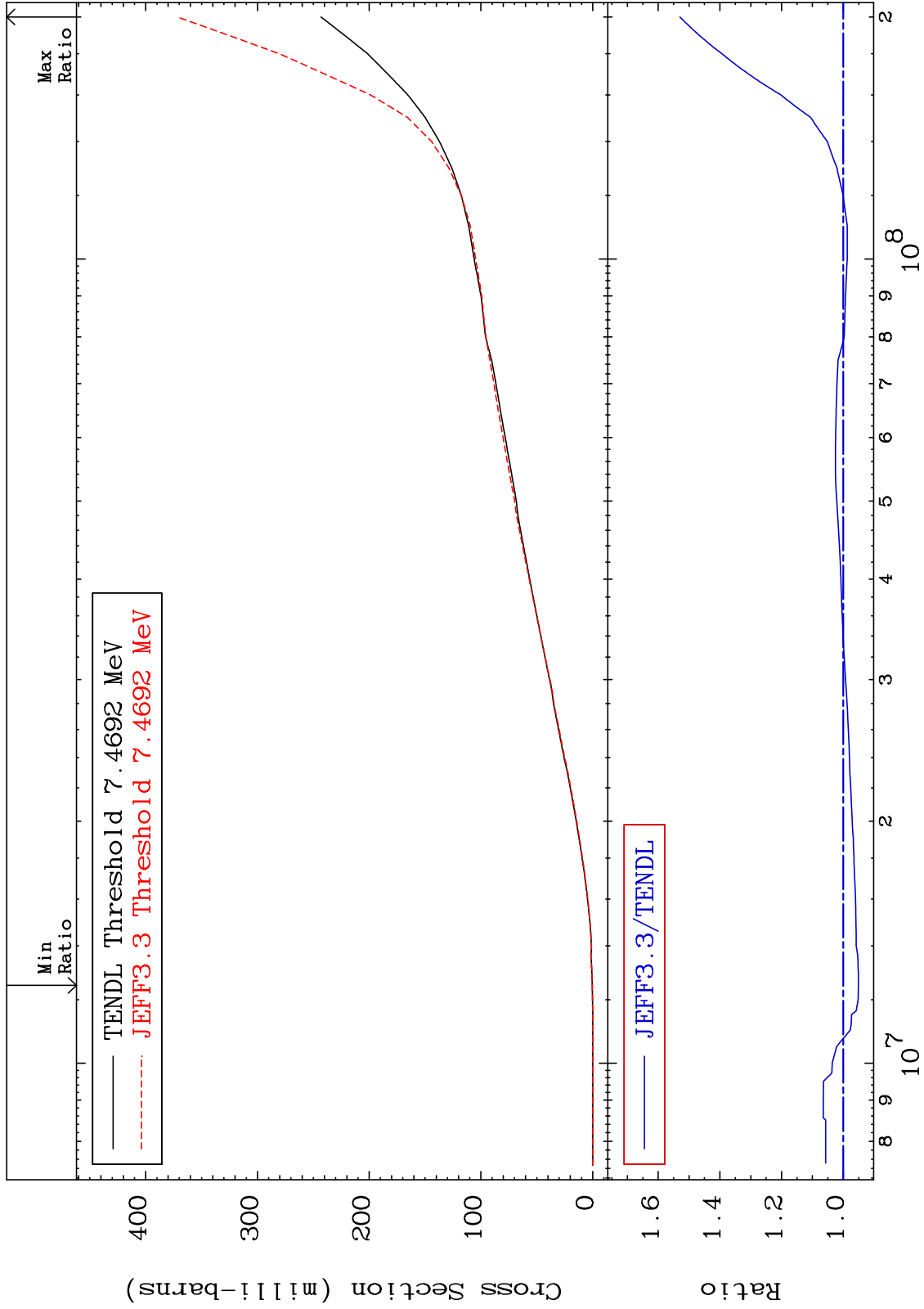
34-Se-77
-5.446 To 48.81 %



MAT 3434

Deuterium Production
Cross Section

$^{34}\text{Se-77}$
-4.904 To 52.92 %



64

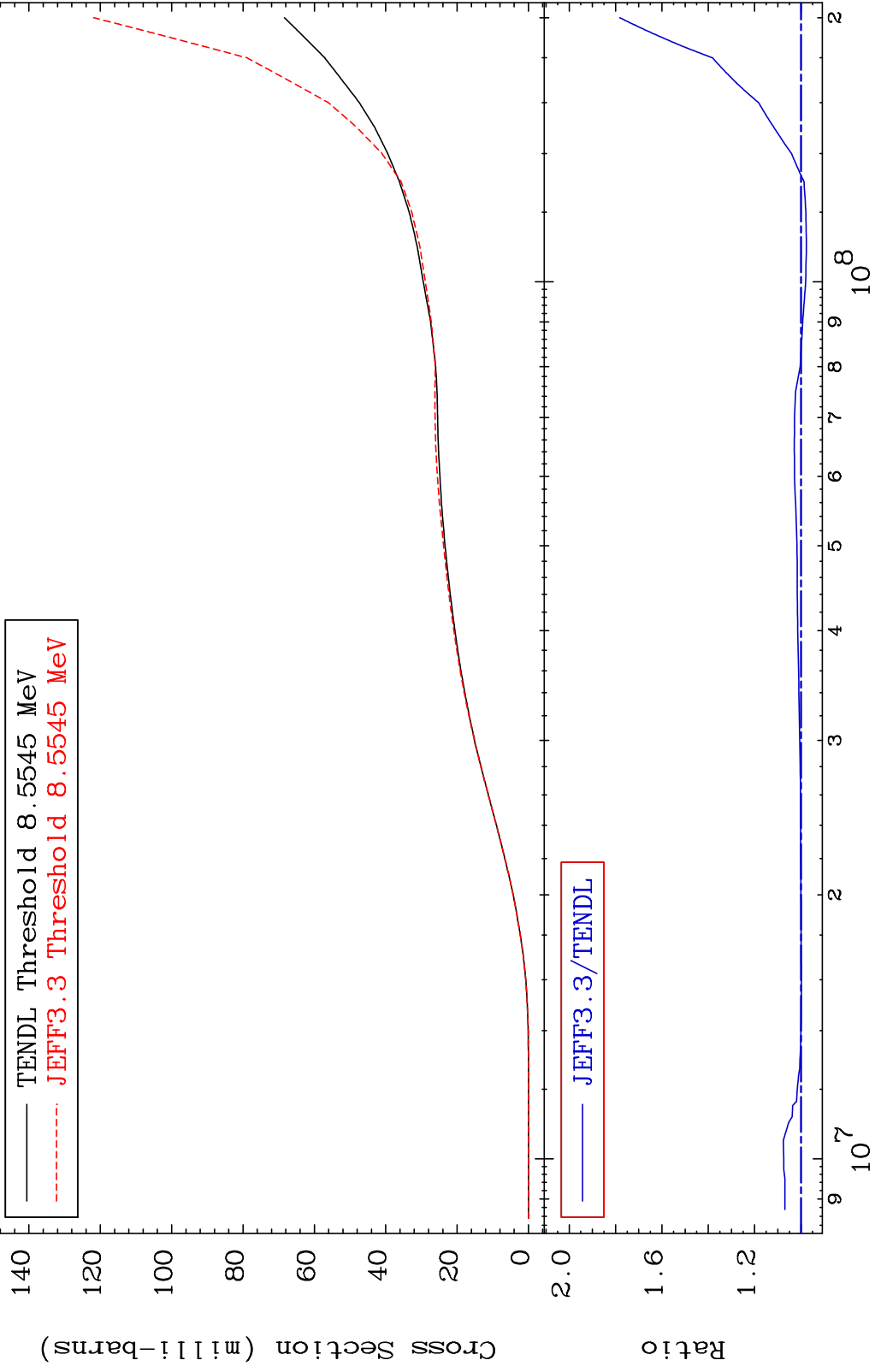
Incident Energy (eV)

$^{34}\text{Se-77}$

MAT 3434

Tritium Production
Cross Section

$^{34}\text{Se-77}$
-2.326 To 78.18 %



65

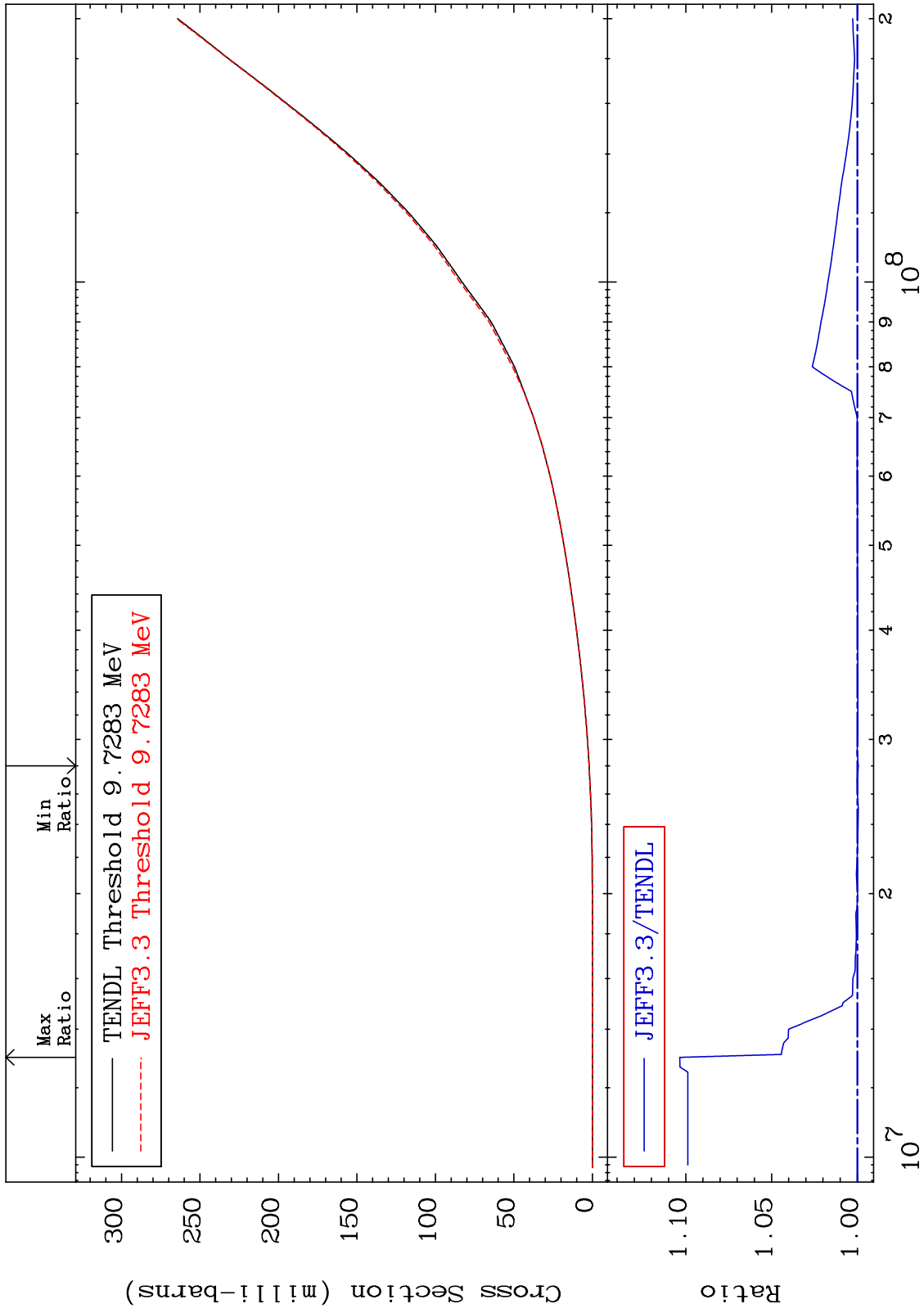
Incident Energy (eV)

$^{34}\text{Se-77}$

MAT 3434

He-3 Production
Cross Section

34-Se-77
-0.059 To 10.35 %



66

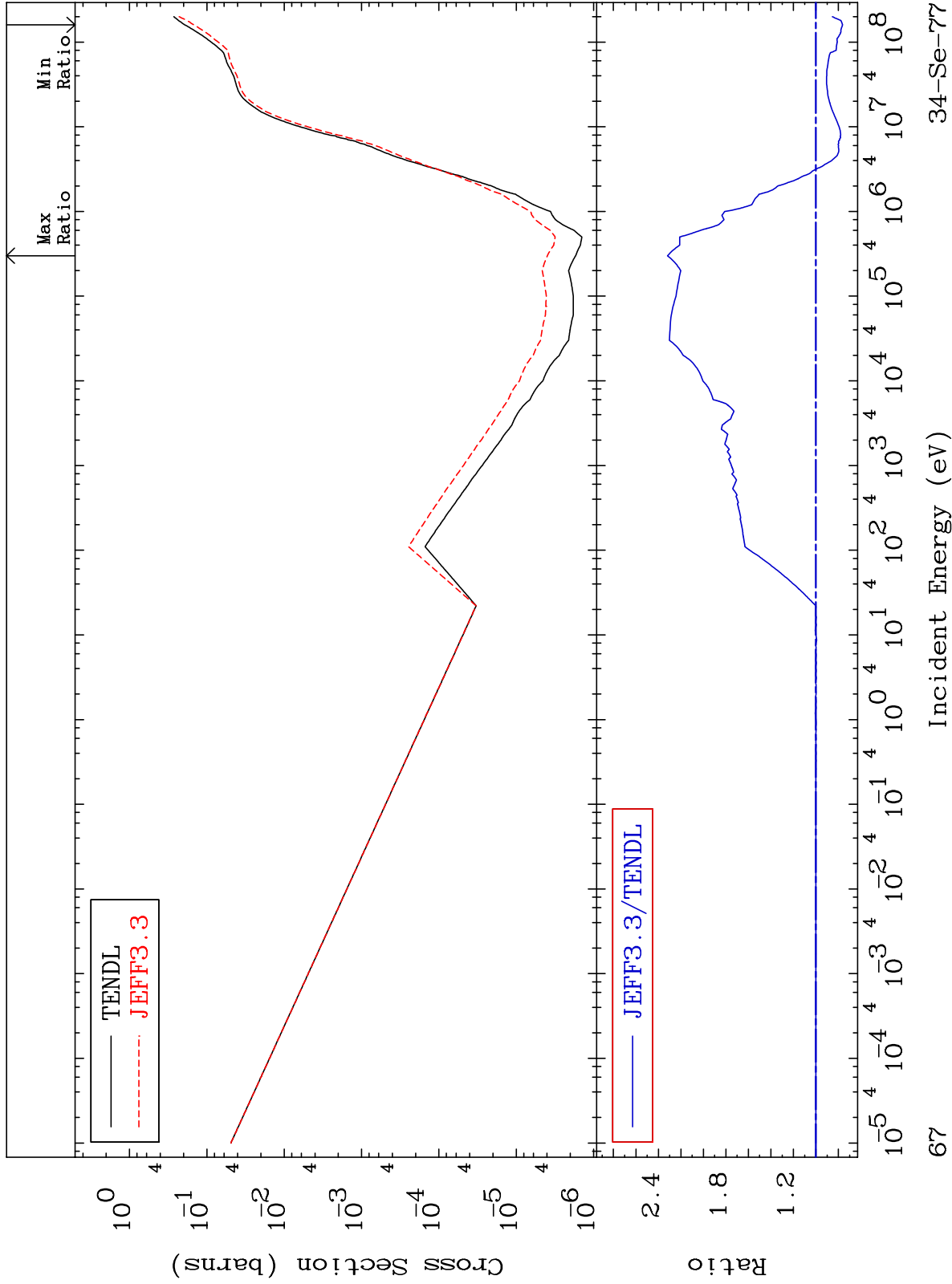
Incident Energy (eV)

34-Se-77

MAT 3434

He-4 Production
Cross Section

34-Se-77
-23.80 To 131.9 %



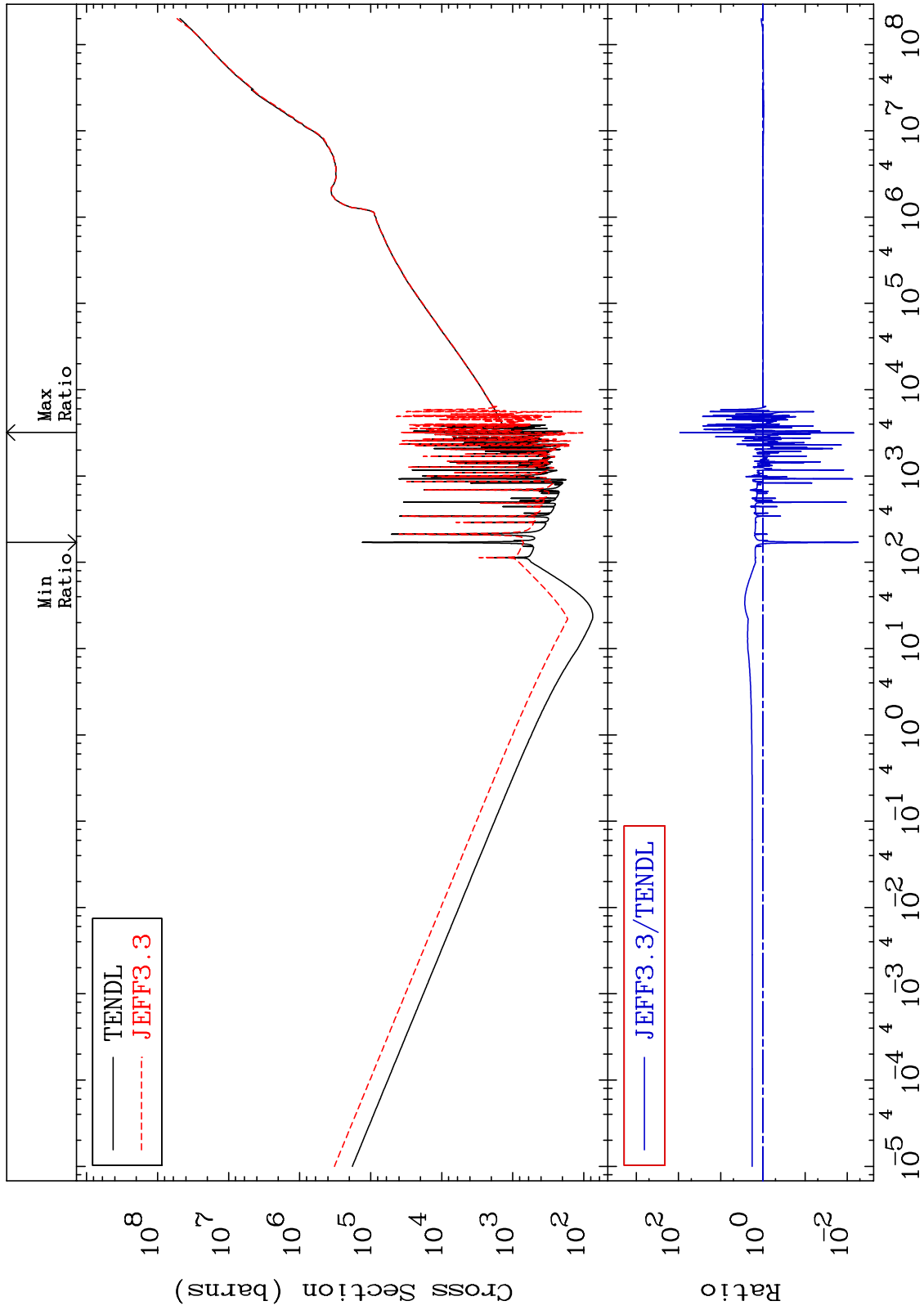
67

34-Se-77

MAT 3434

Kerma total (eV-barns)
Cross Section

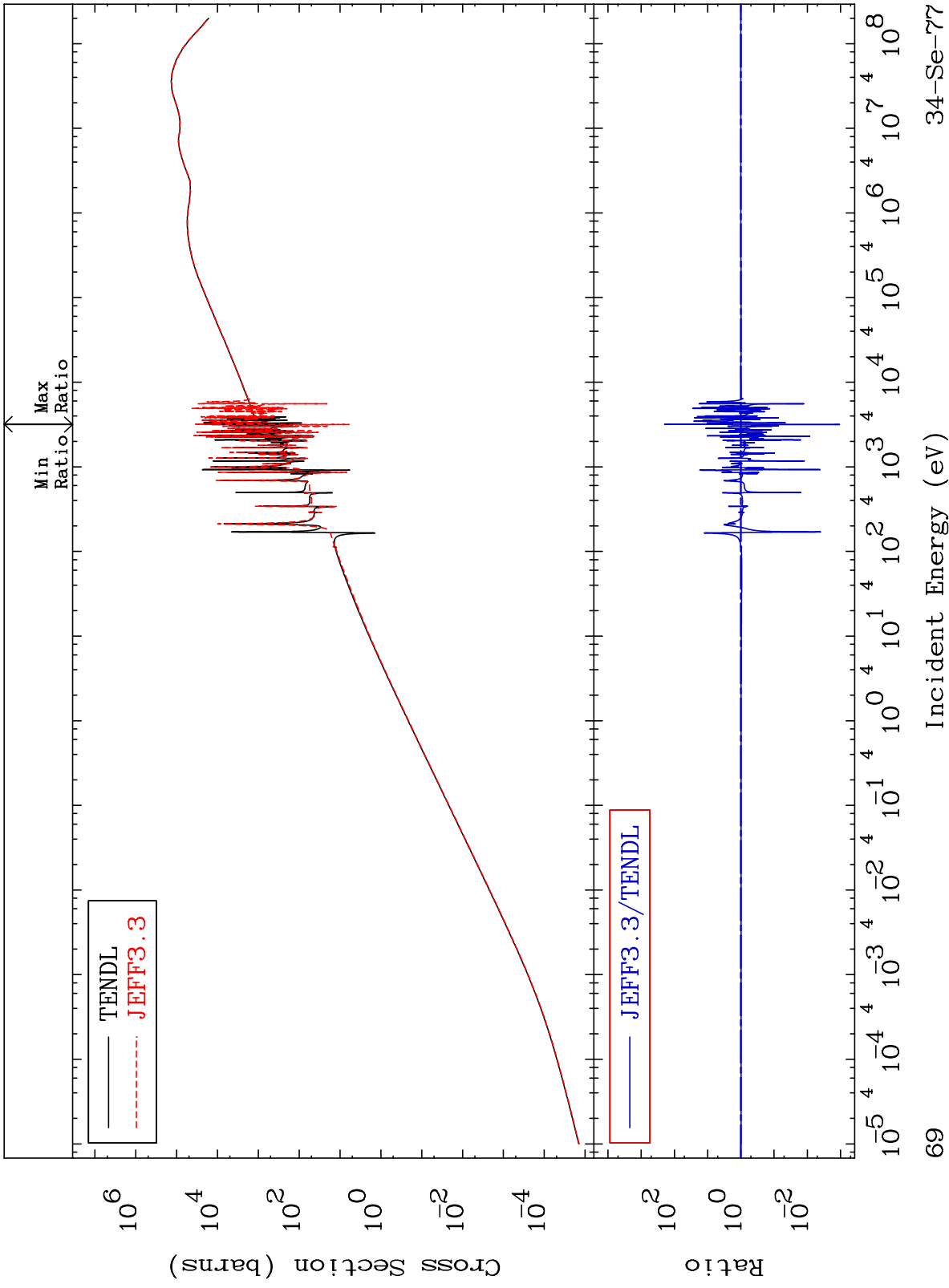
34-Se-77
-99.46 To 9116. %



MAT 3434

Kerma elastic
Cross Section

34-Se-77
-99.89 To 9999. %



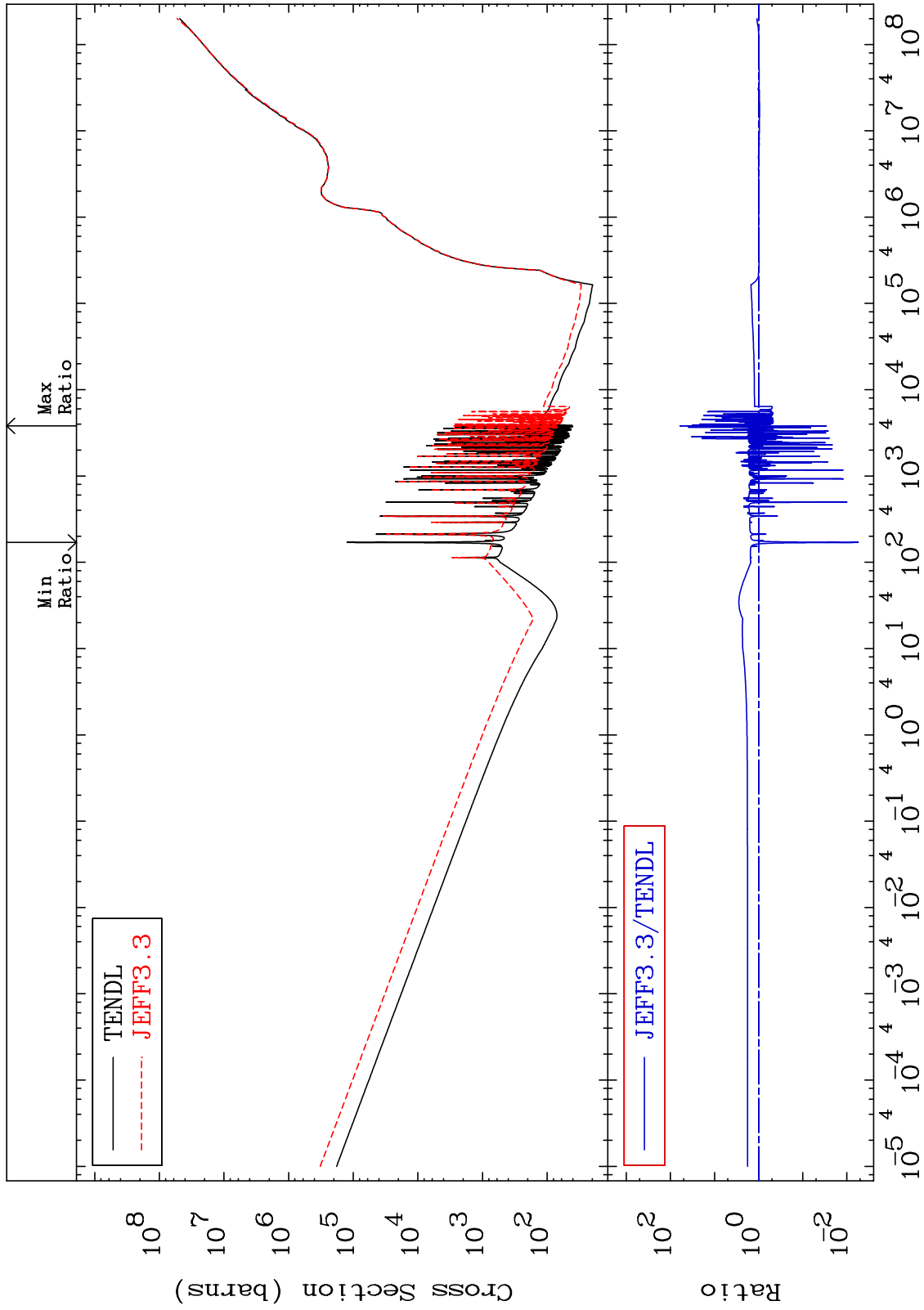
69

34-Se-77

MAT 3434

Kerma non-elastic (all but mt2)
Cross Section

34-Se-77
-99.45 To 5953. %



70

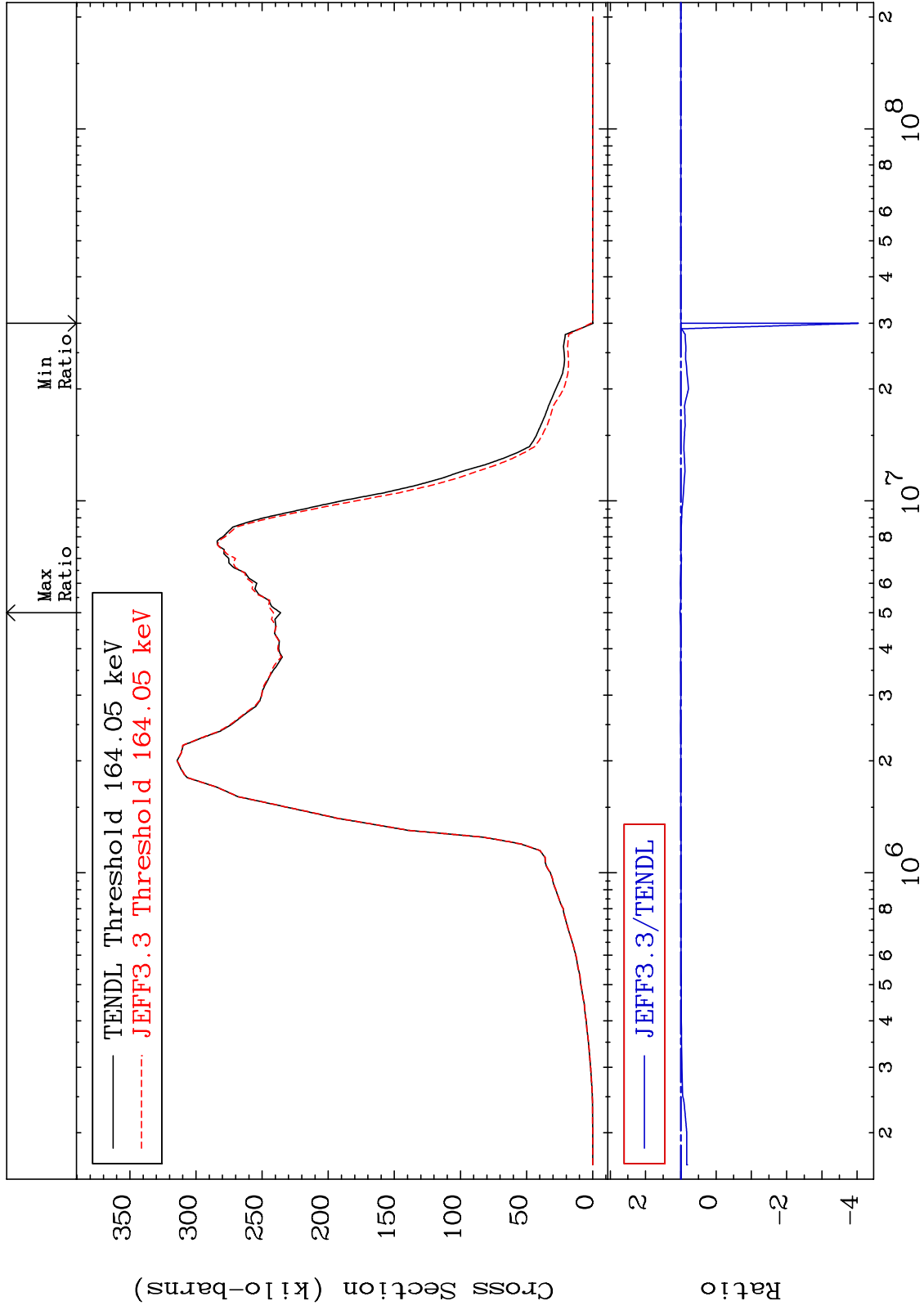
Incident Energy (eV)

34-Se-77

MAT 3434

Kerma inelastic (mt51-91)
Cross Section

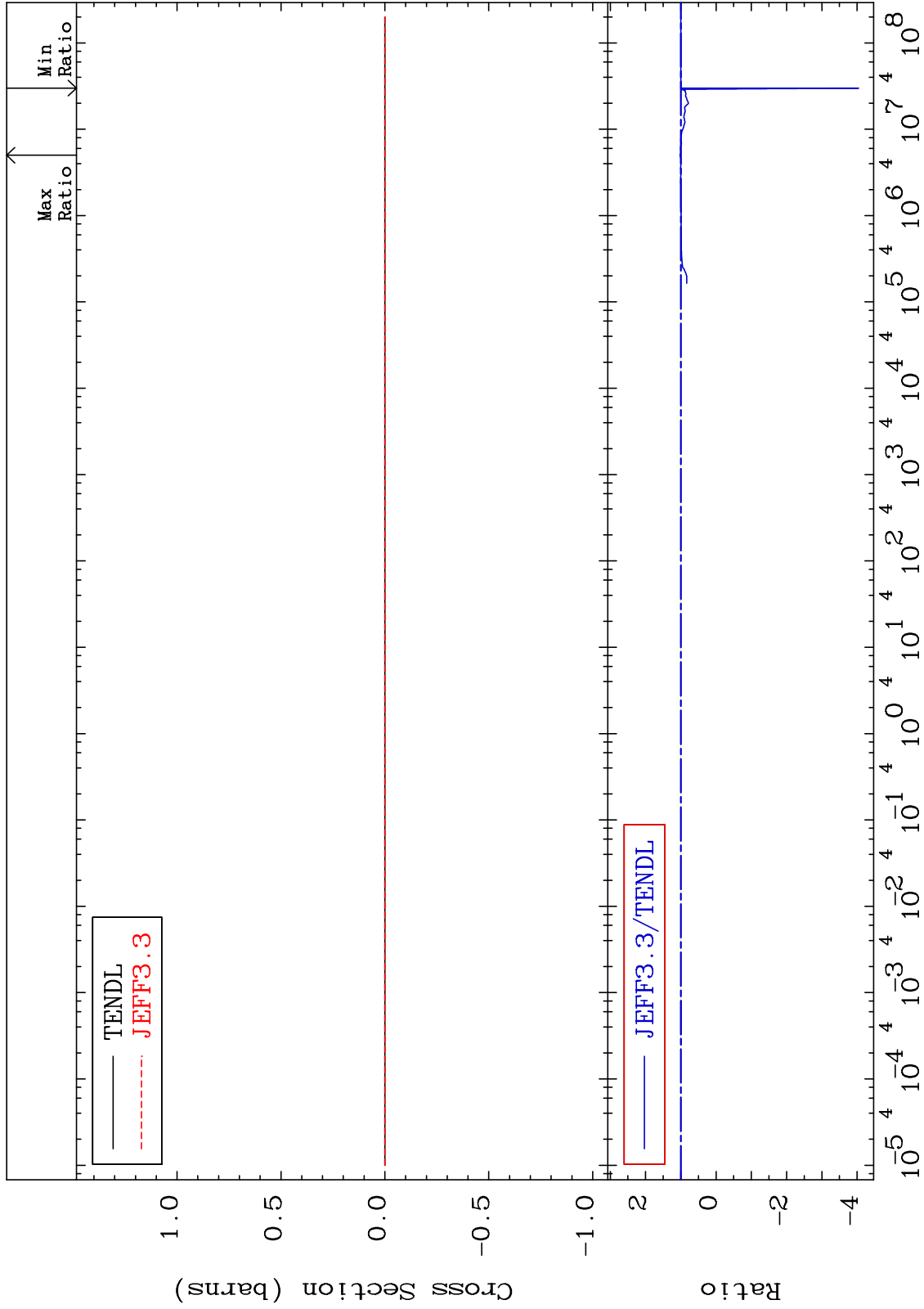
34-Se-77
-503.7 To 2.258 %



MAT 3434

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

34-Se-77
-503.7 To 2.258 %



72

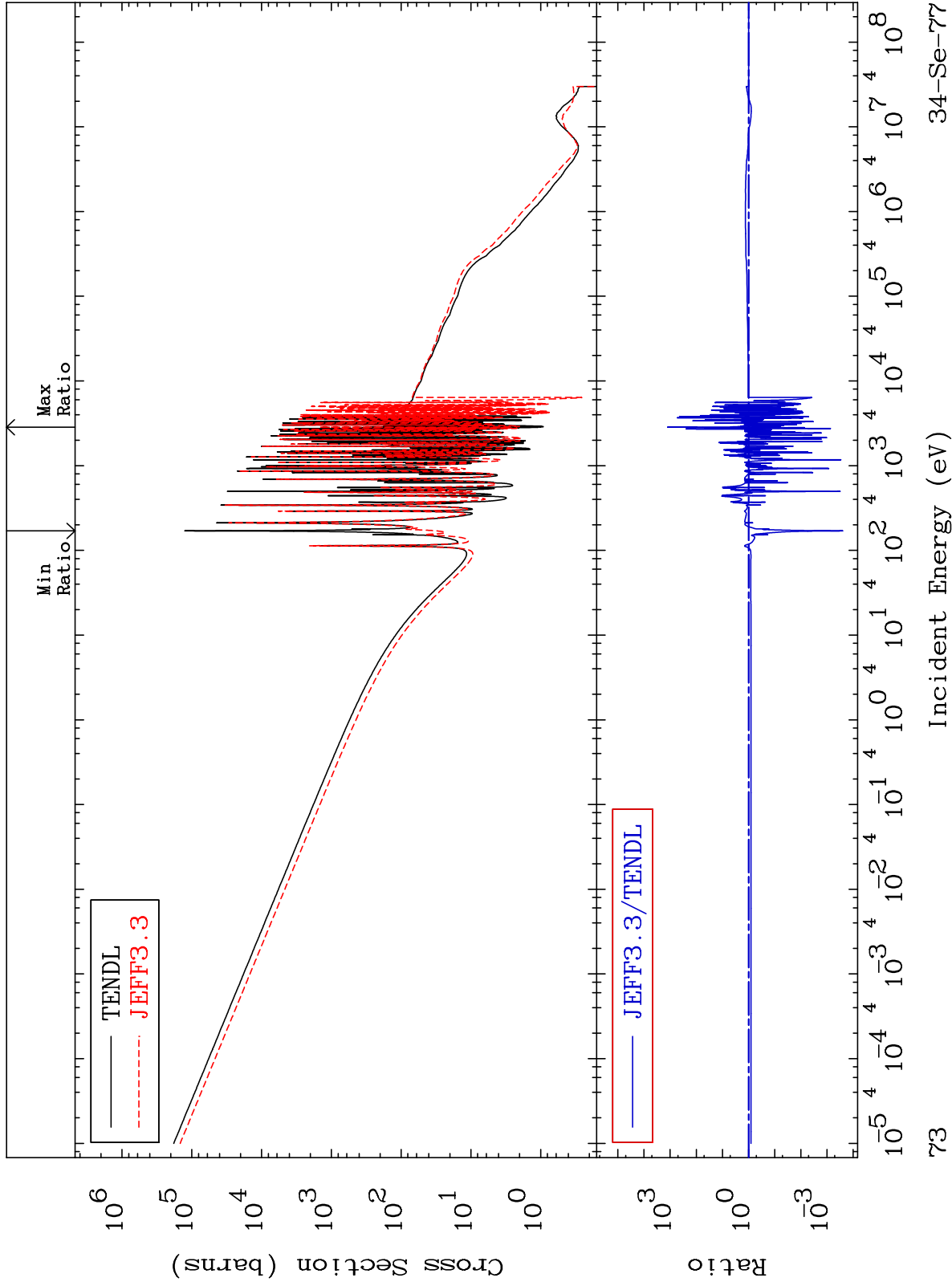
Incident Energy (eV)

34-Se-77

MAT 3434

Kerma capture (mt102)
Cross Section

34-Se-77
-99.98 To 9999. %



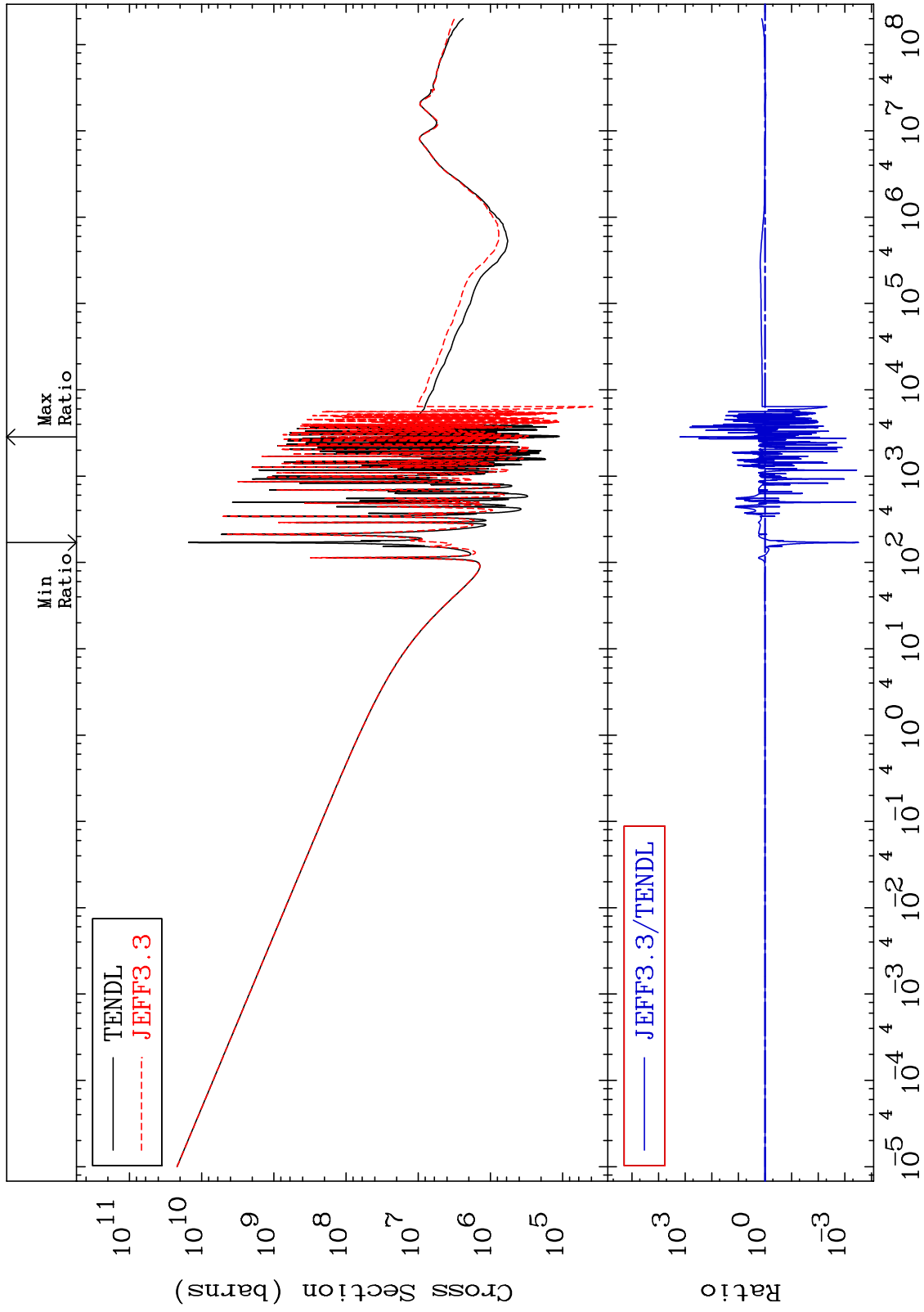
73

34-Se-77

MAT 3434

Total photon (eV-barns)
Cross Section

34-Se-77
-99.97 To 9999. %



74

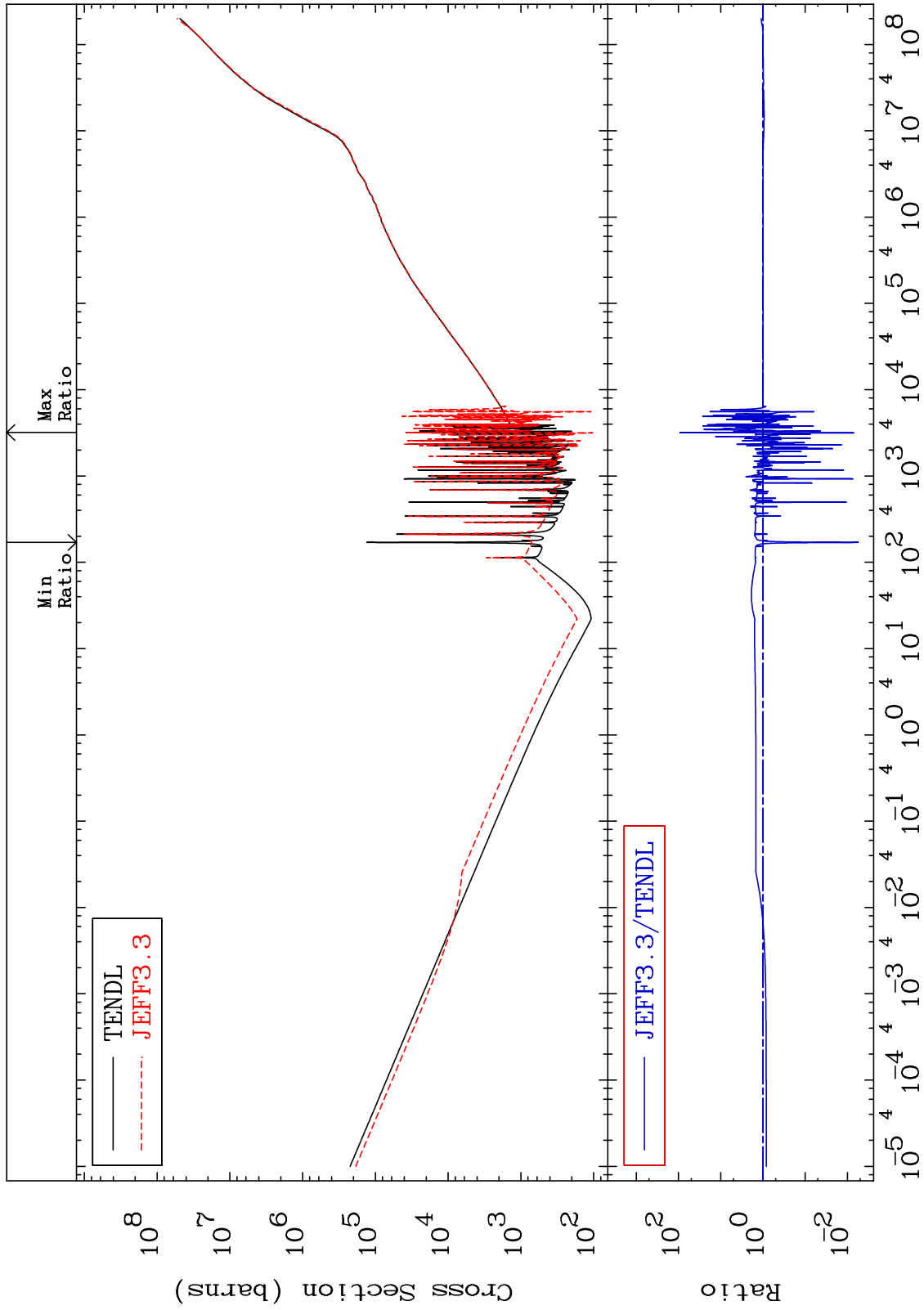
Incident Energy (eV)

34-Se-77

MAT 3434

Total kinematic kerma (high limit)
Cross Section

34-Se-77
-99.45 To 9105. %



75

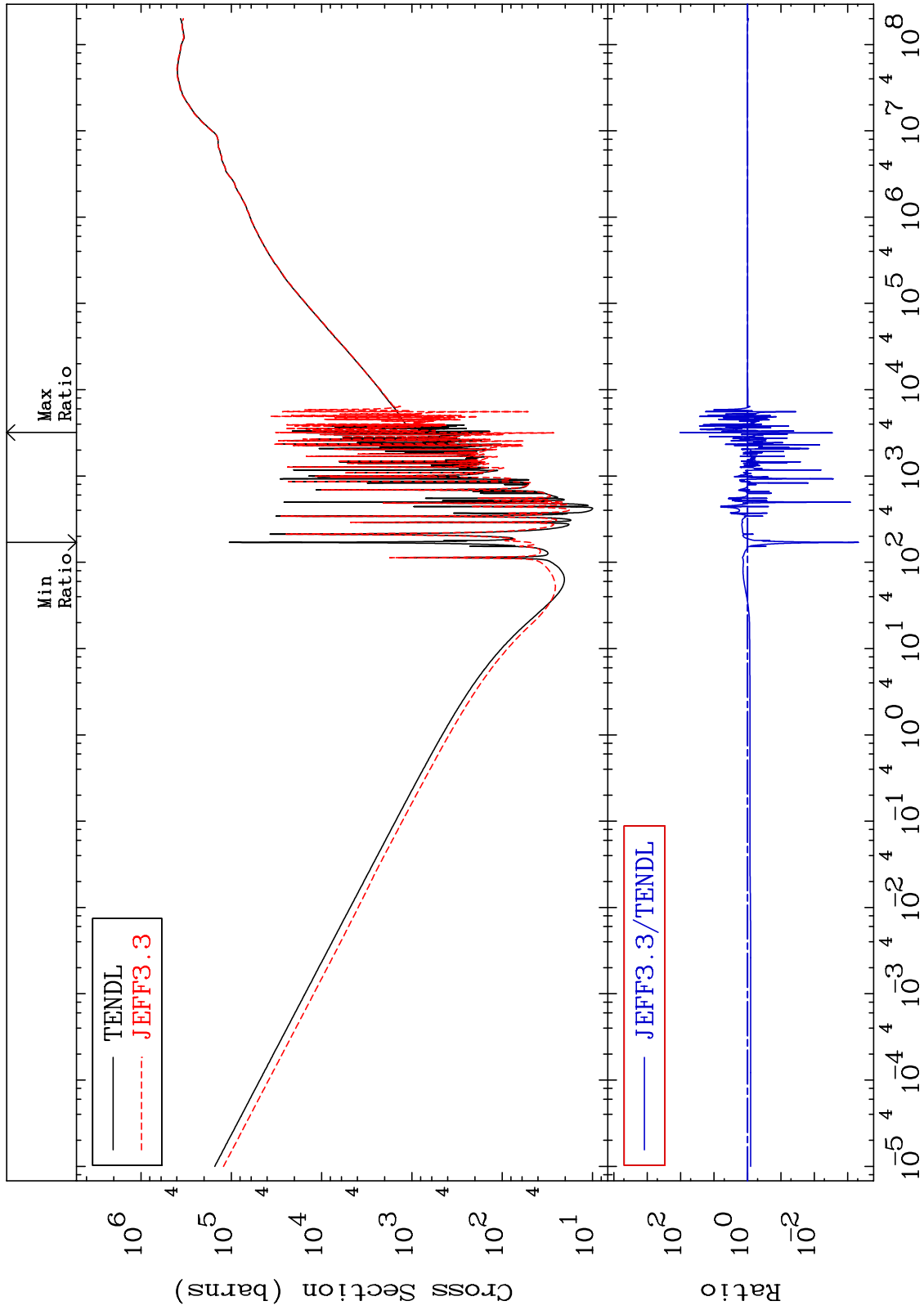
Incident Energy (eV)

34-Se-77

MAT 3434

Dpa total (eV-barns)
Cross Section

34-Se-77
-99.95 To 9999. %



76

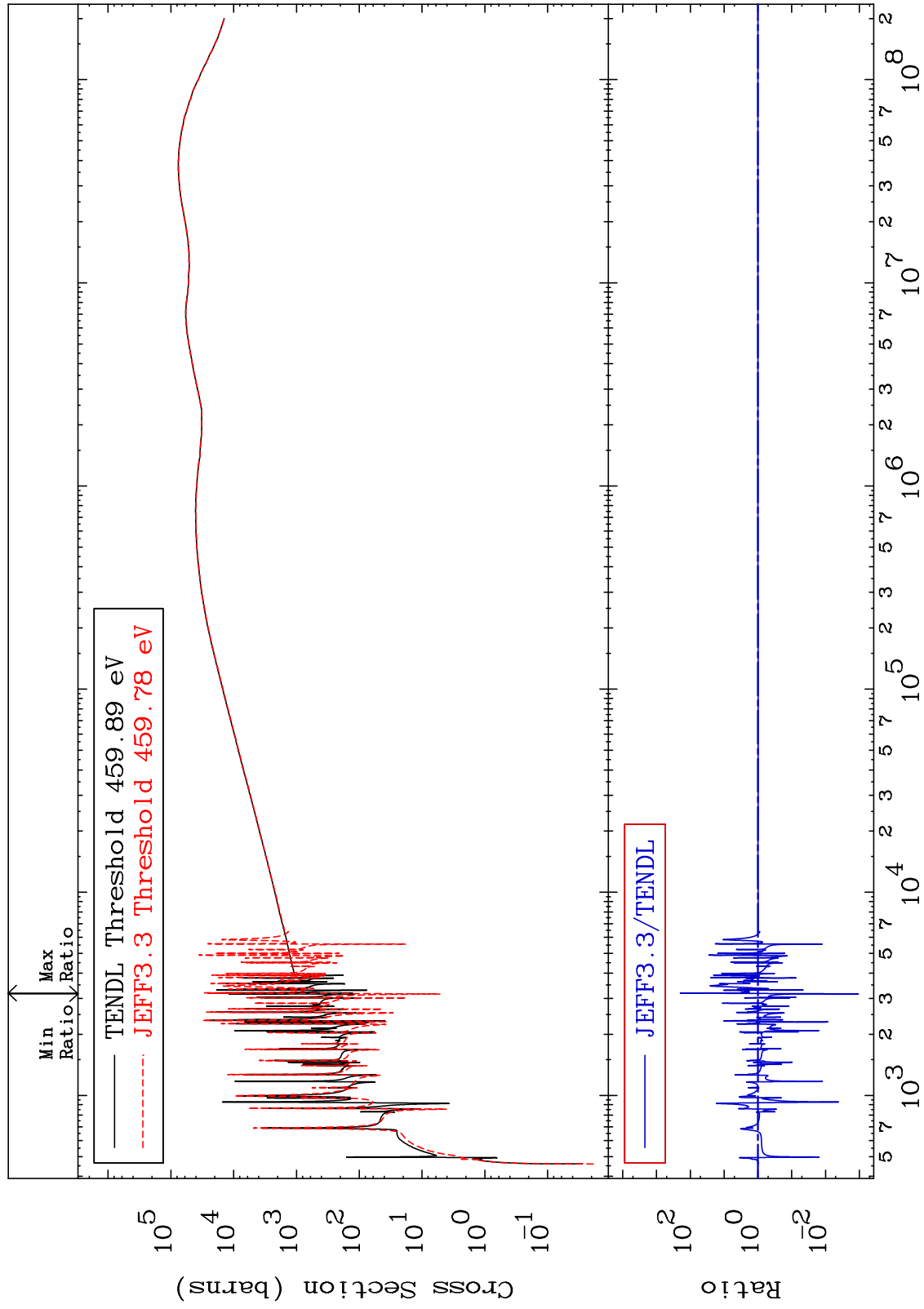
Incident Energy (eV)

34-Se-77

MAT 3434

Dpa elastic (mt2)
Cross Section

34-Se-77
-99.89 To 9999. %



77

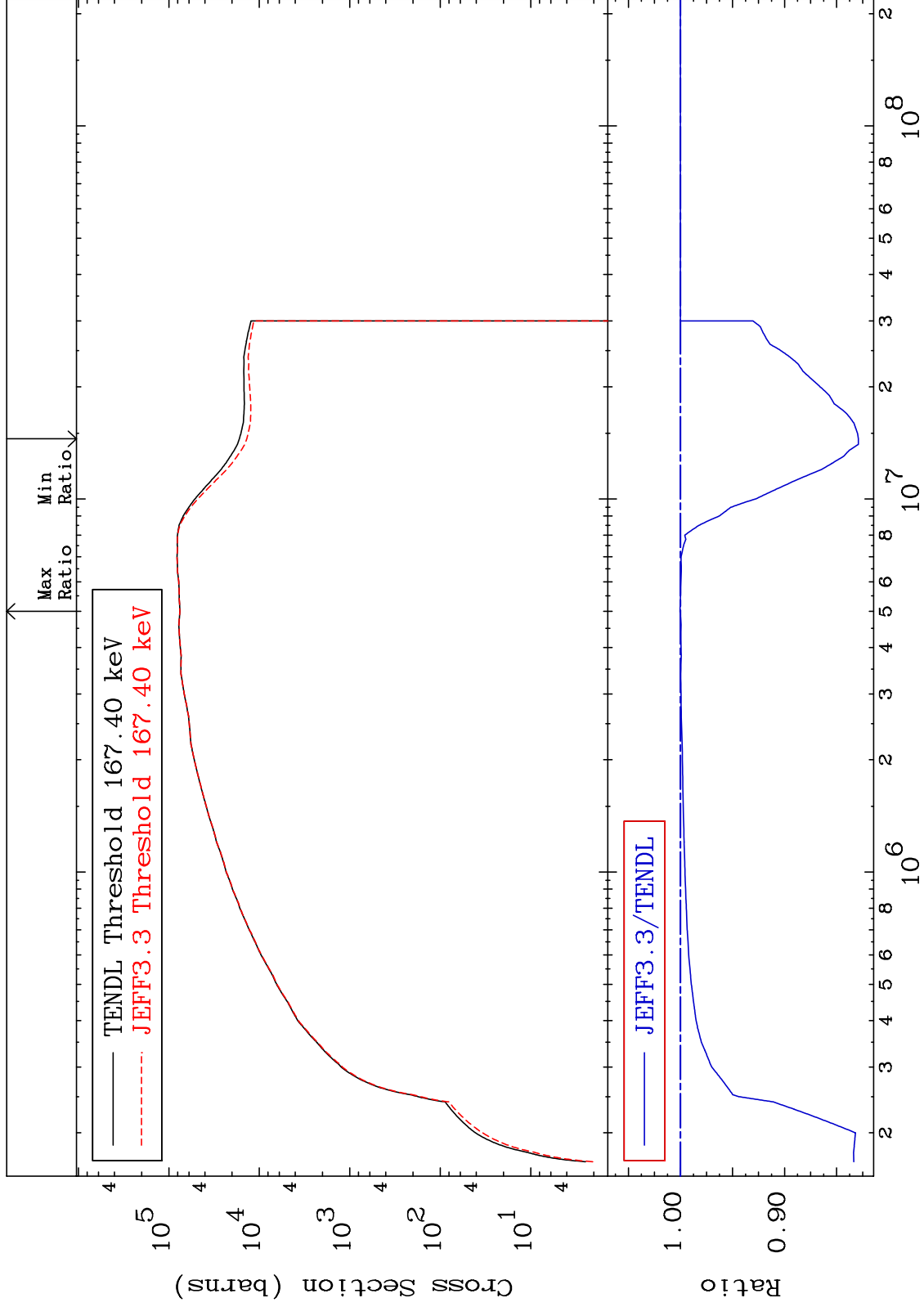
Incident Energy (eV)

34-Se-77

MAT 3434

Dpa inelastic (mt51-91)
Cross Section

34-Se-77
-17.09 To 0.044 %



78

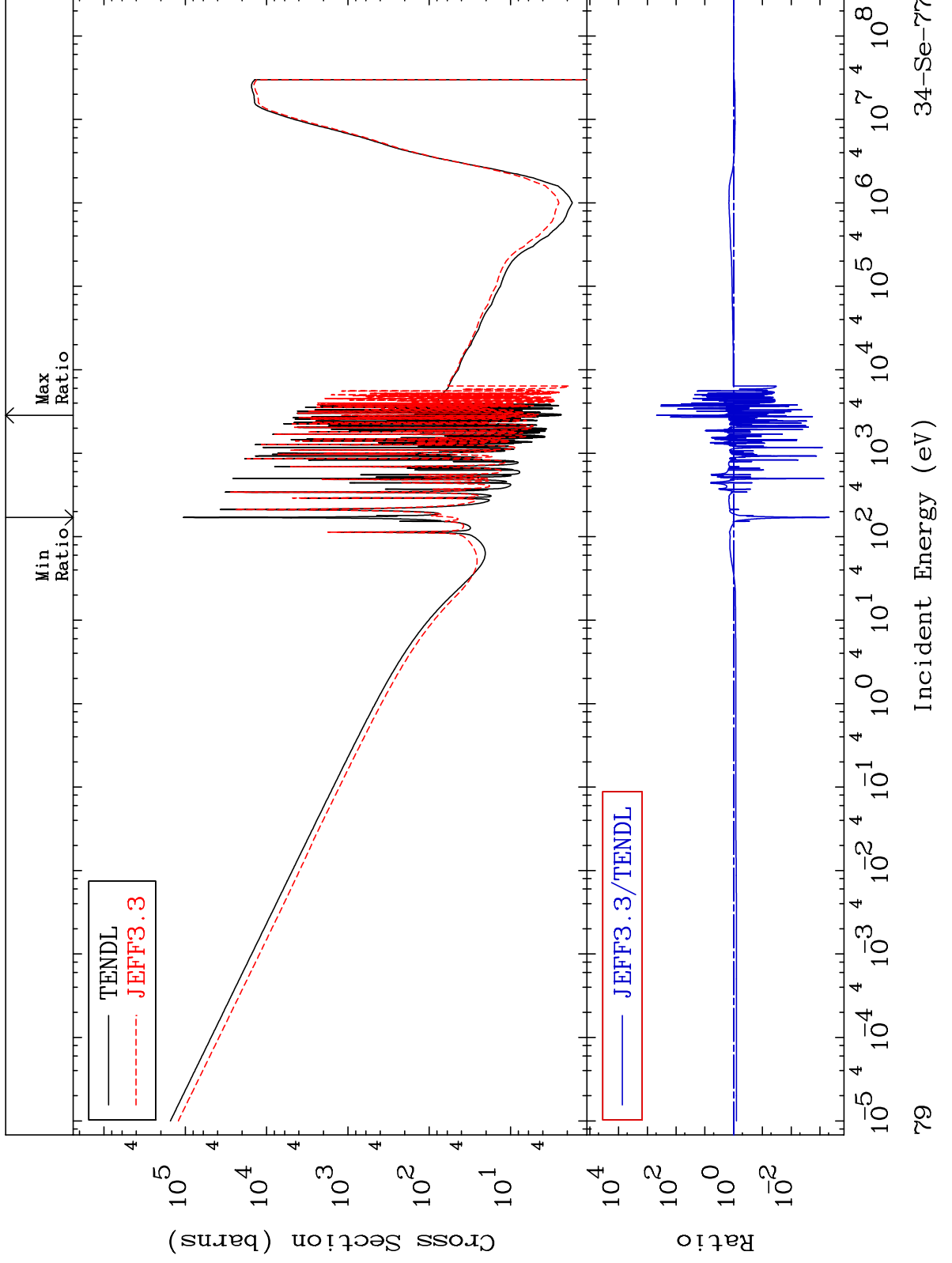
Incident Energy (eV)

34-Se-77

MAT 3434

Dpa disappearance (mt102 -120)
Cross Section

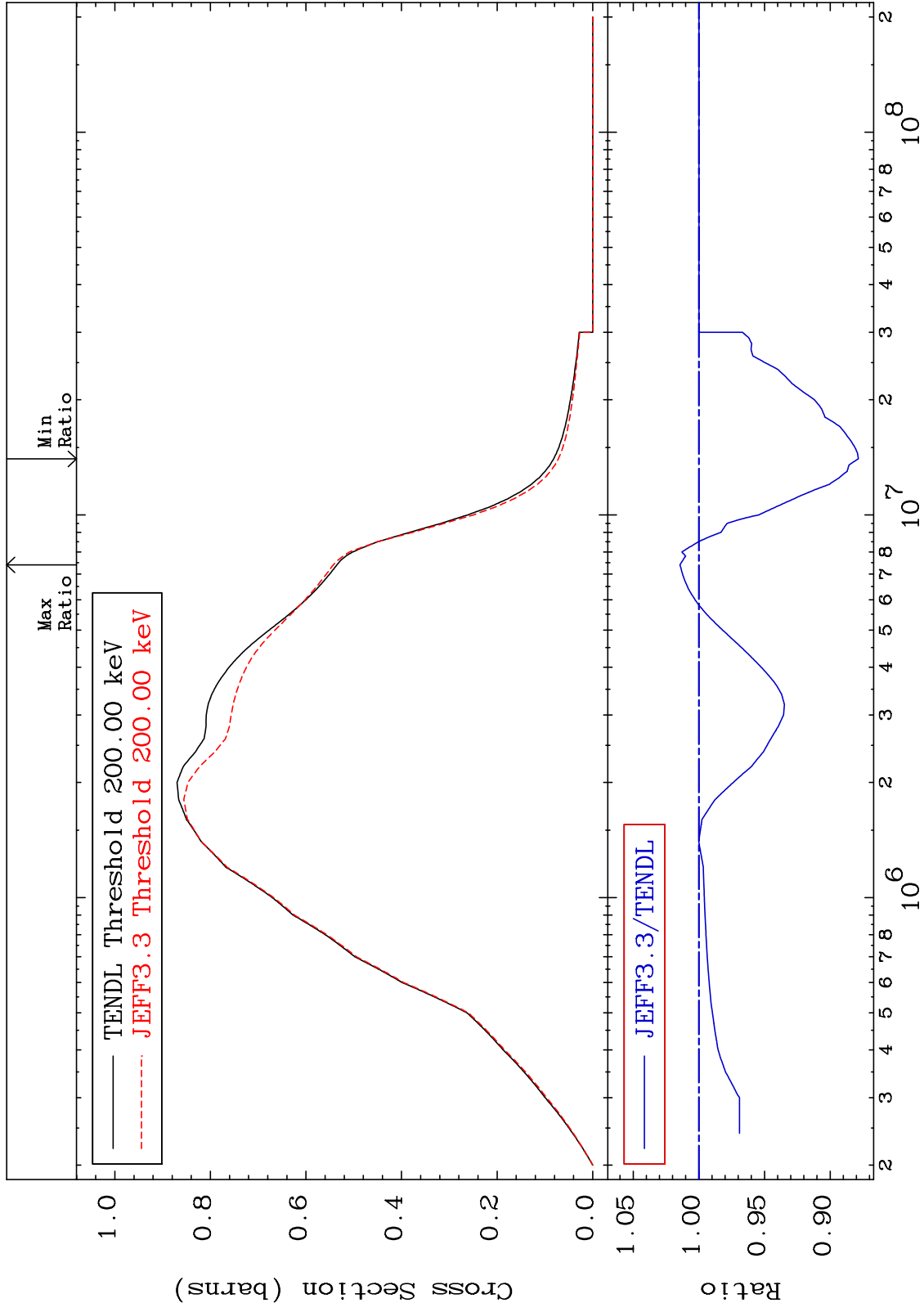
34-Se-77
-99.95 To 9999. %



MAT 3434

Inelastic: 34-Se-77g
Radionuclide Production Cross Section -12.15 To 1.434 %

34-Se-77



80

Incident Energy (eV)

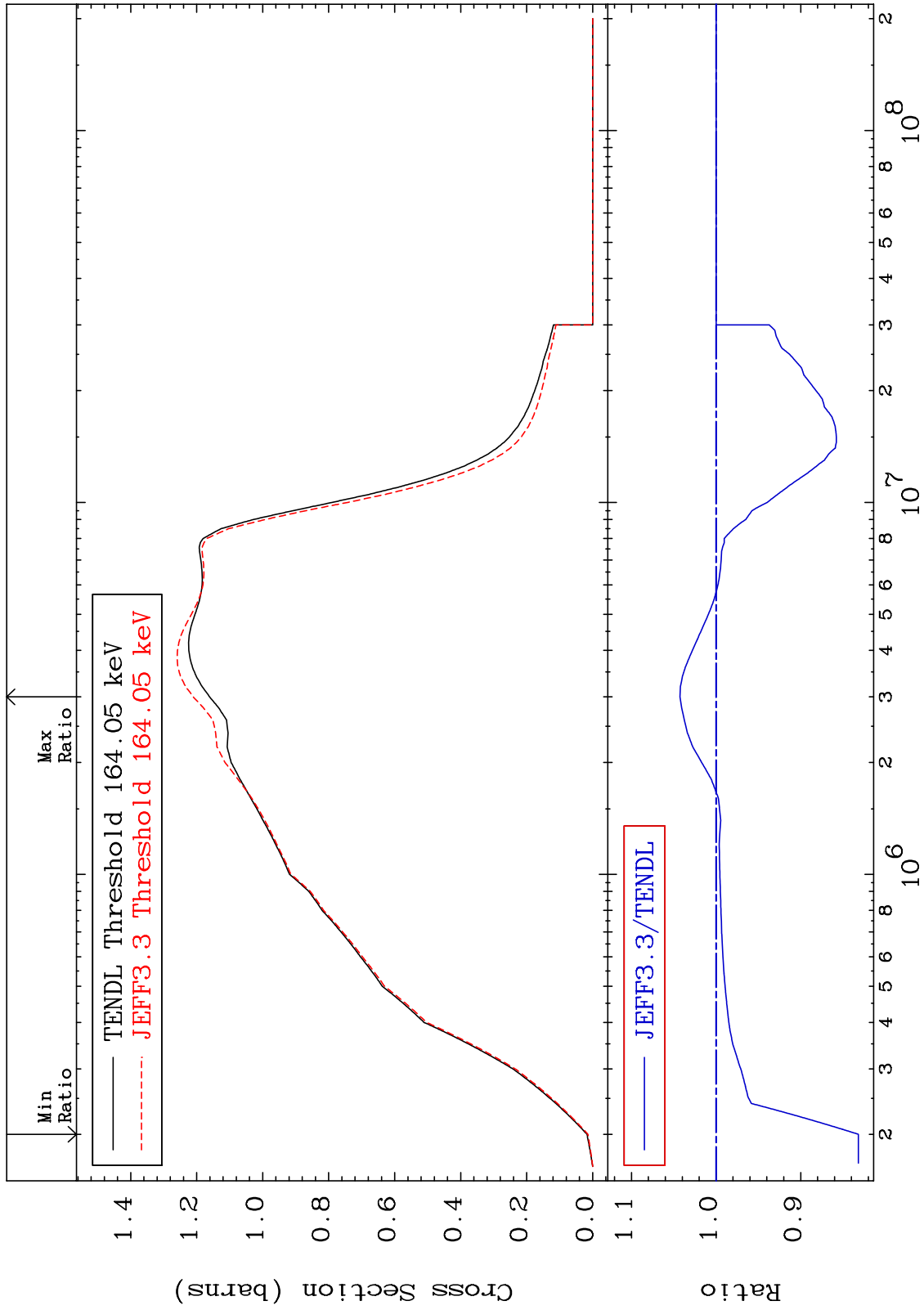
34-Se-77

MAT 3434

Inelastic:34-Se-77m1

34-Se-77

Radionuclide Production Cross Section -16.82 To 4.264 %

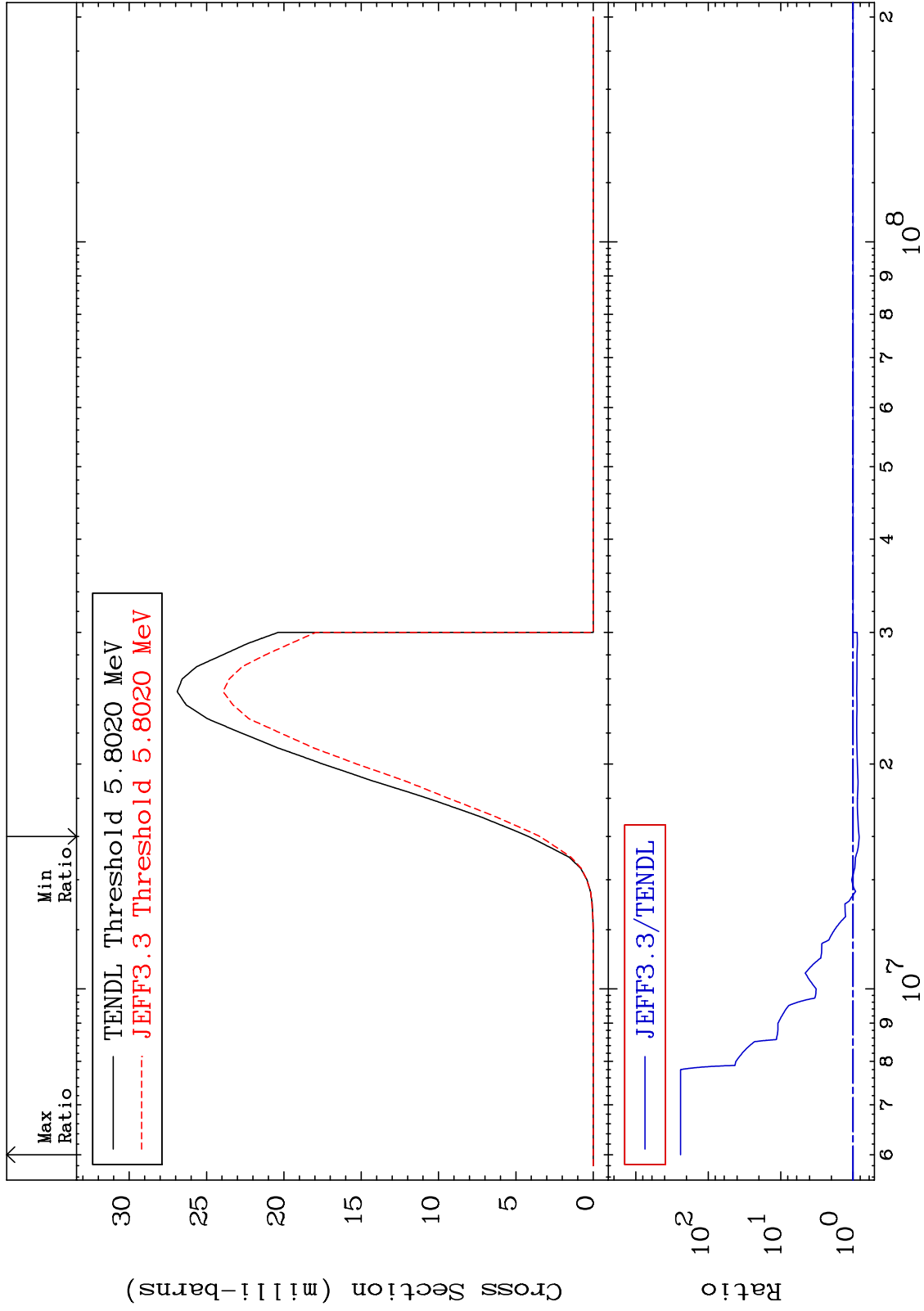


MAT 3434

(n, n') α : 32-Ge-73g

34-Se-77

Radionuclide Production Cross Section -17.53 To 9999. %

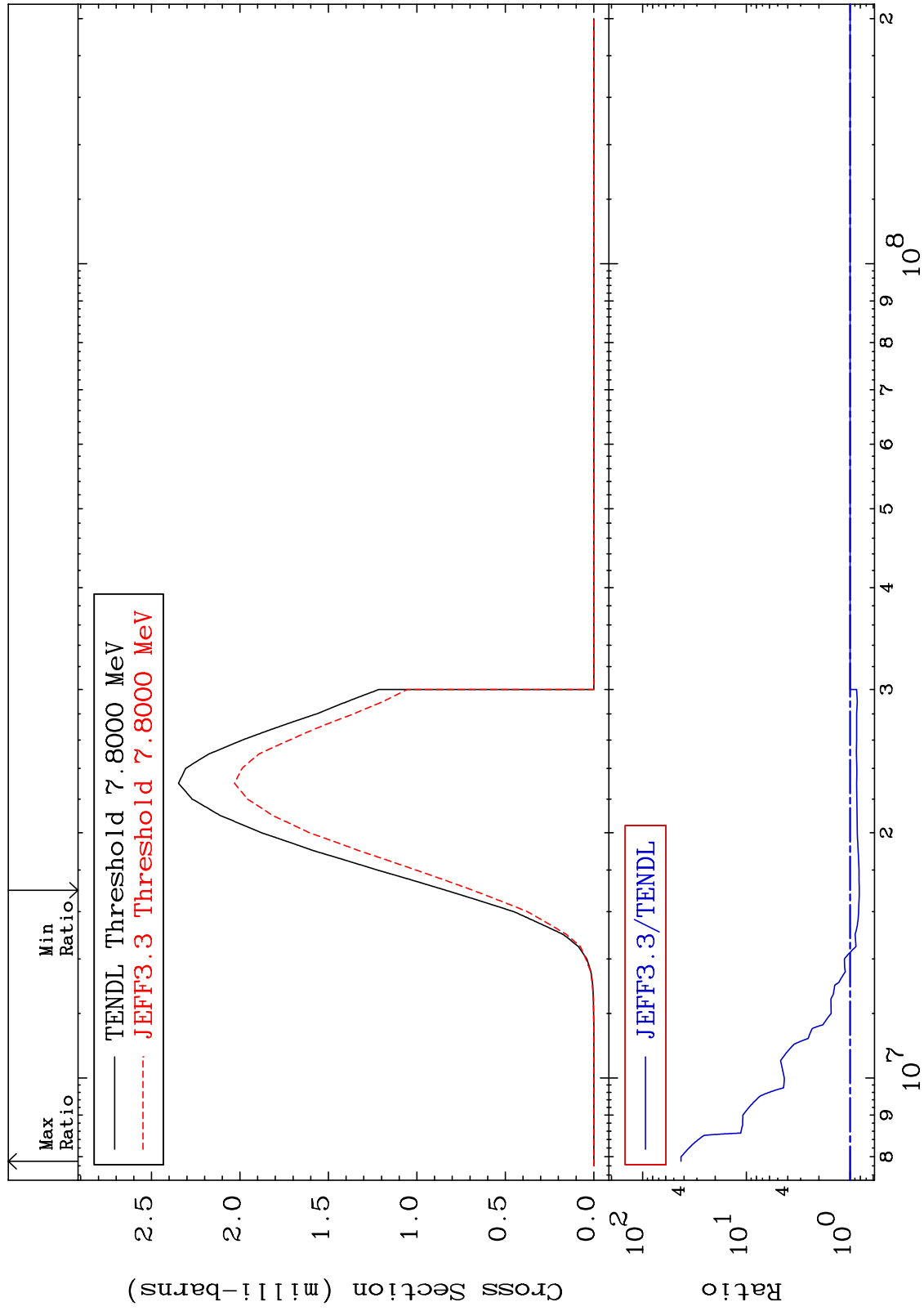


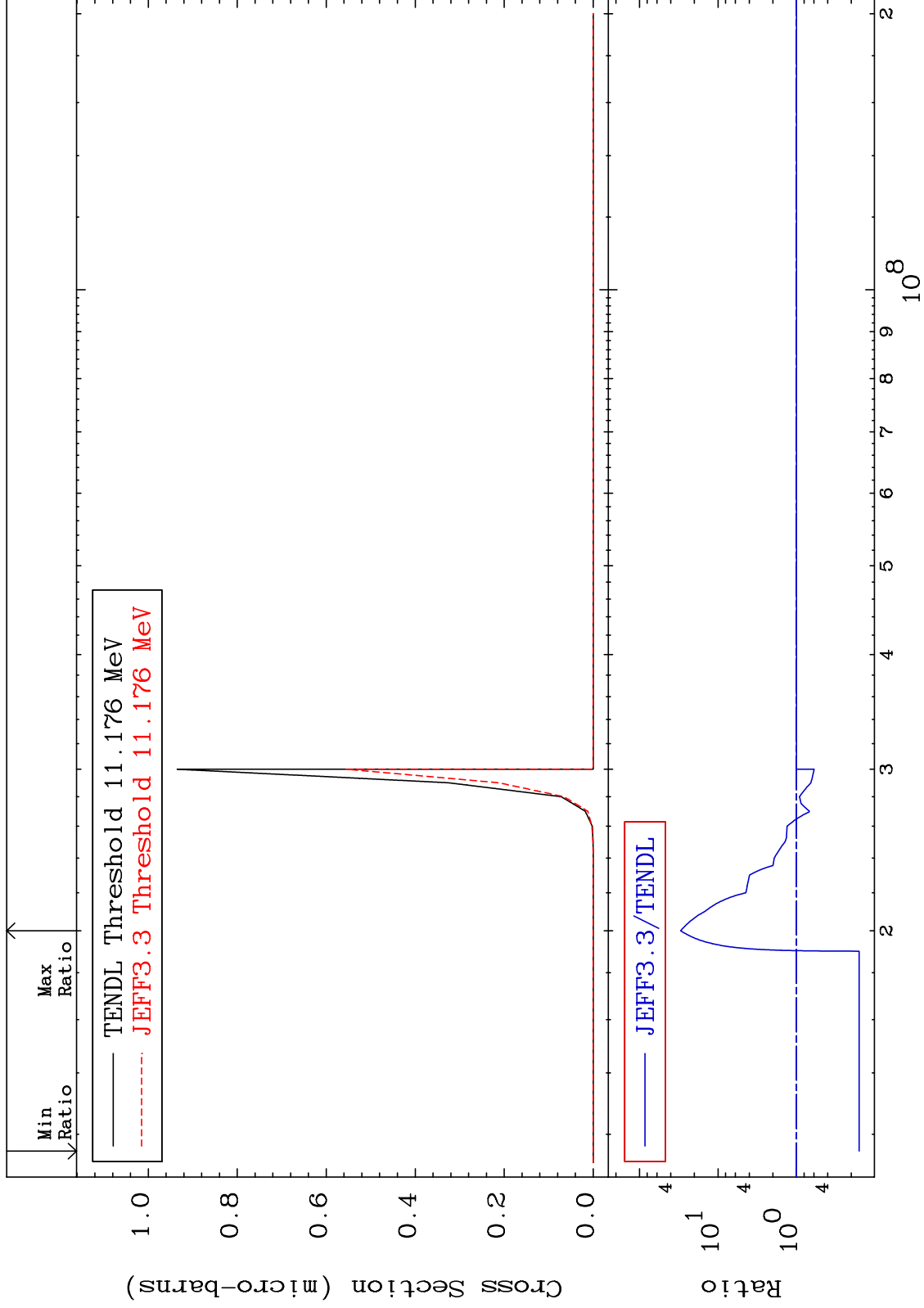
MAT 3434

(n, n') α :32-Ge-73m2

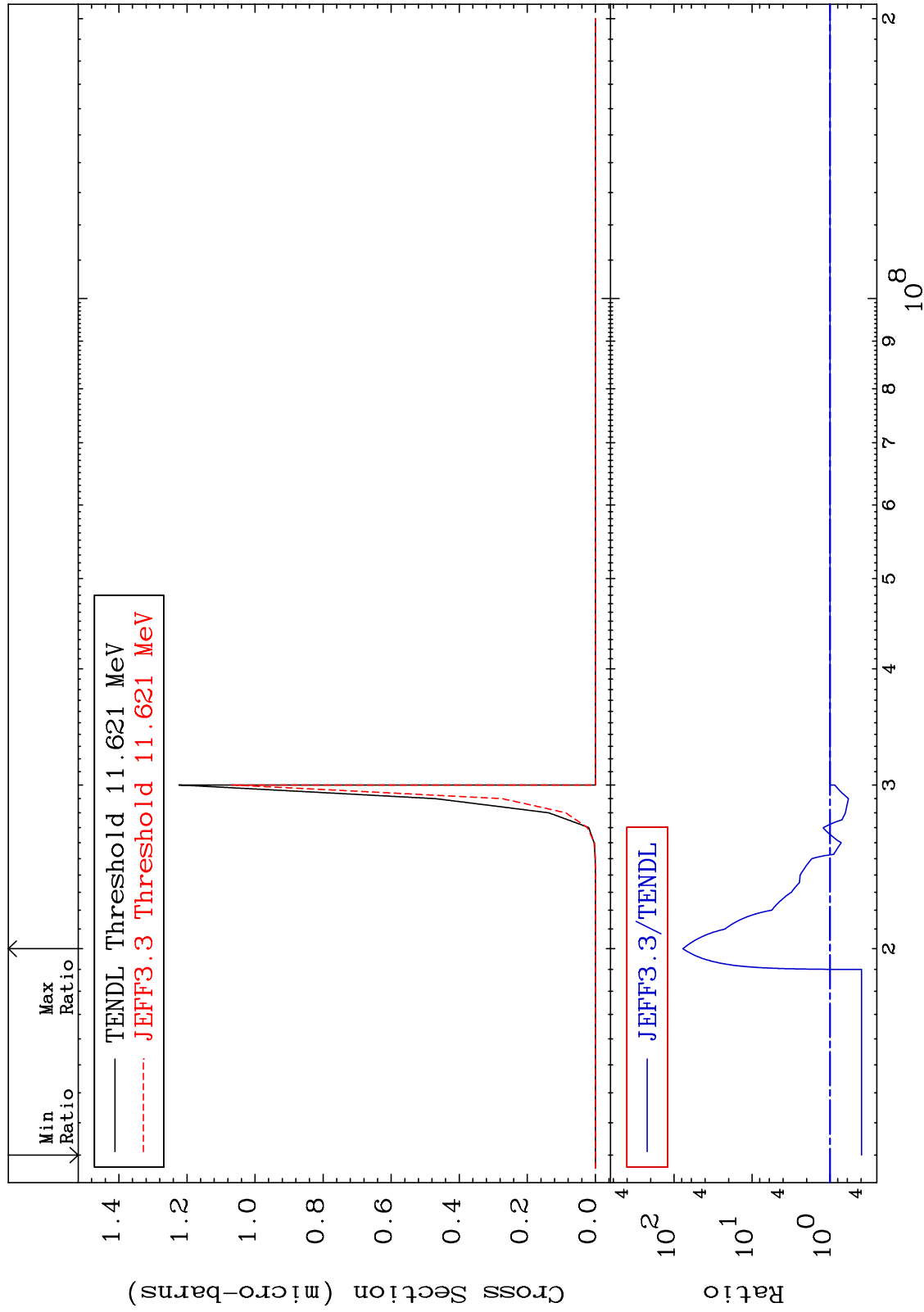
34-Se-77

Radionuclide Production Cross Section -18.30 To 4166. %

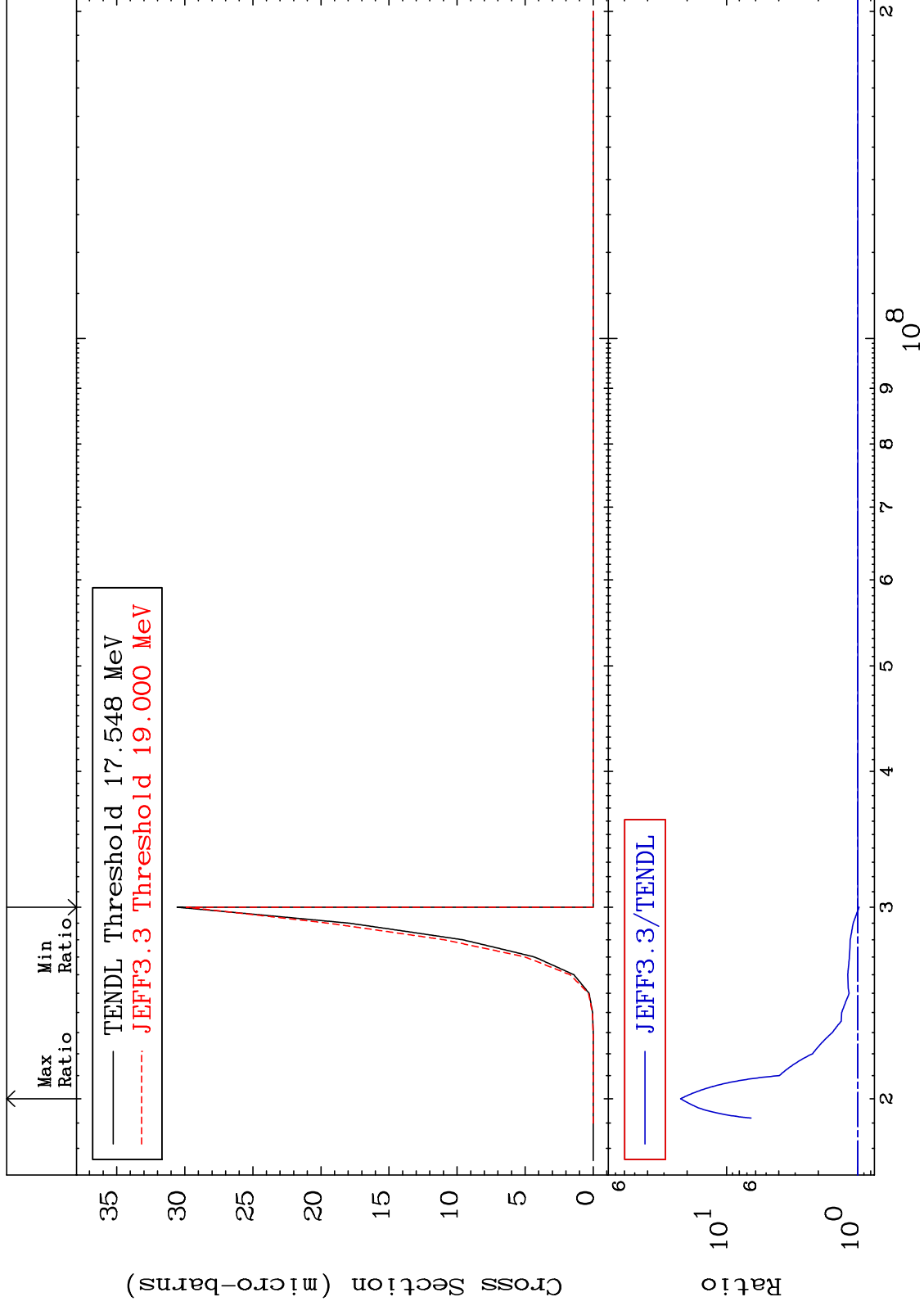




Radionuclide Production Cross Section -60.53 To 7613. %



Radionuclide Production Cross Section -2.242 To 2138. %

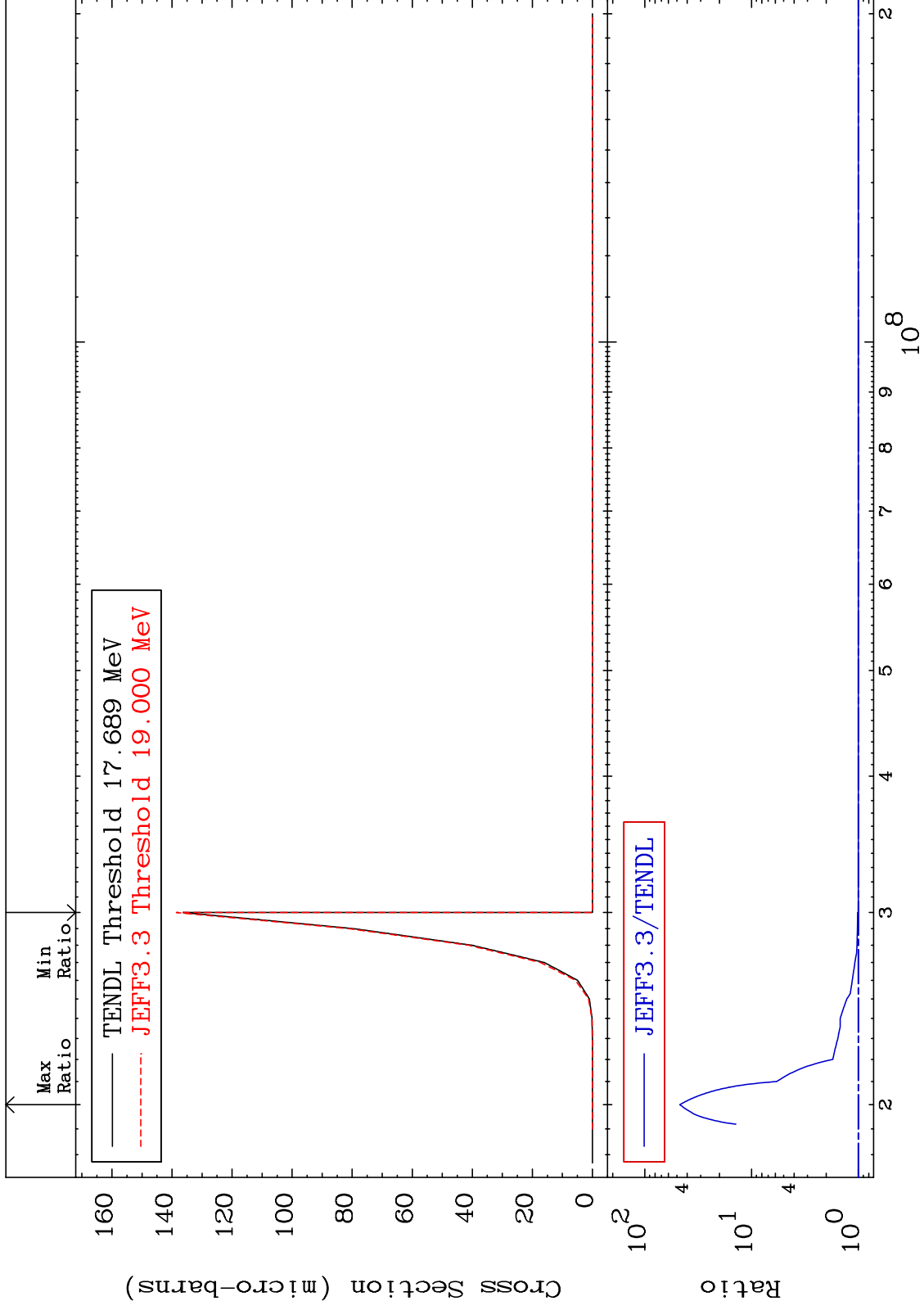


MAT 3434

(n,2n) p:32-Ge-75m2

34-Se-77

Radionuclide Production Cross Section 0.000 To 4598. %

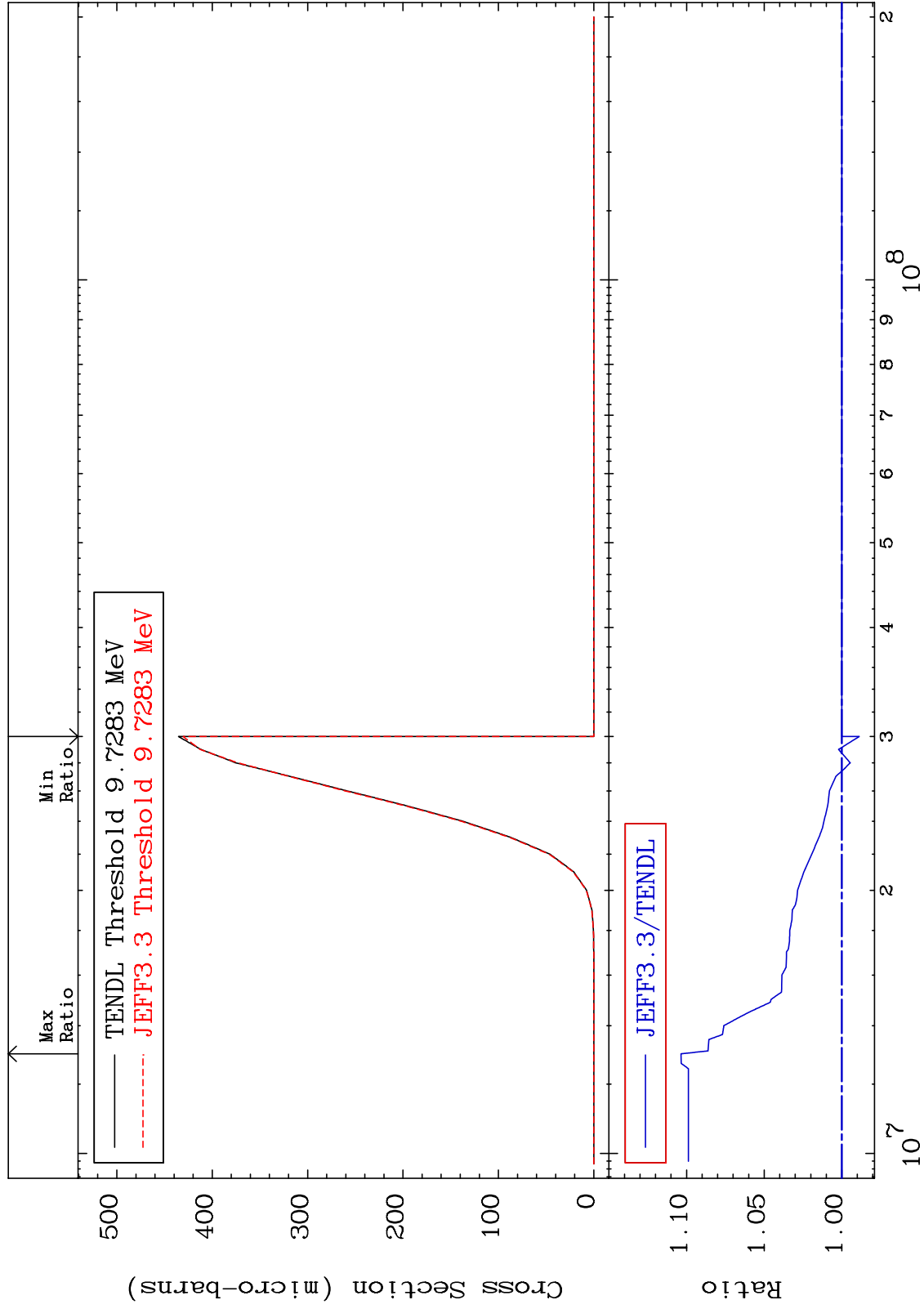


MAT 3434

(n, He-3) : 32-Ge-75g

34-Se-77

Radionuclide Production Cross Section -1.126 To 10.35 %



88

Incident Energy (eV)

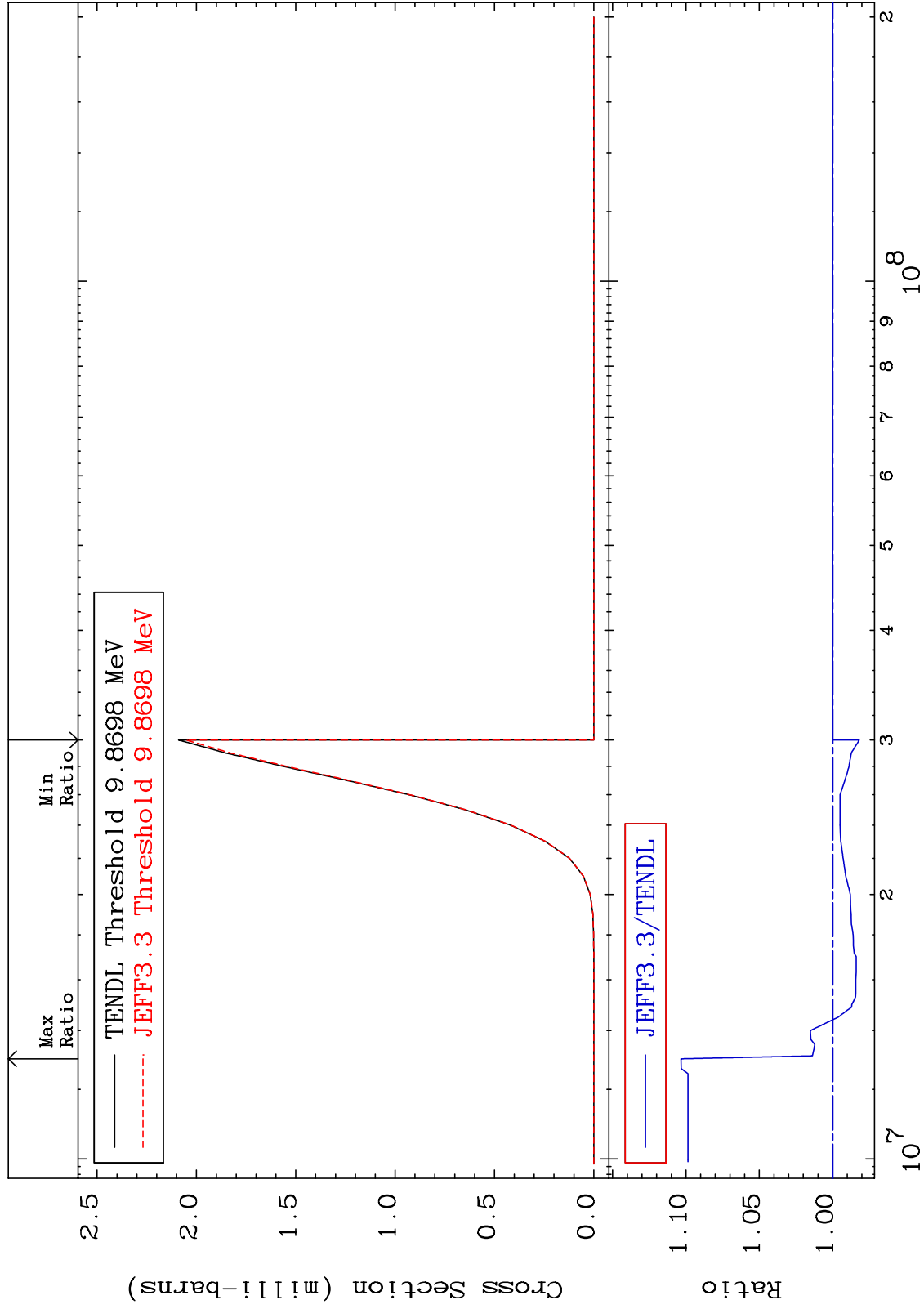
34-Se-77

MAT 3434

(n, He-3):32-Ge-75m2

34-Se-77

Radionuclide Production Cross Section -1.819 To 10.34 %



89

Incident Energy (eV)

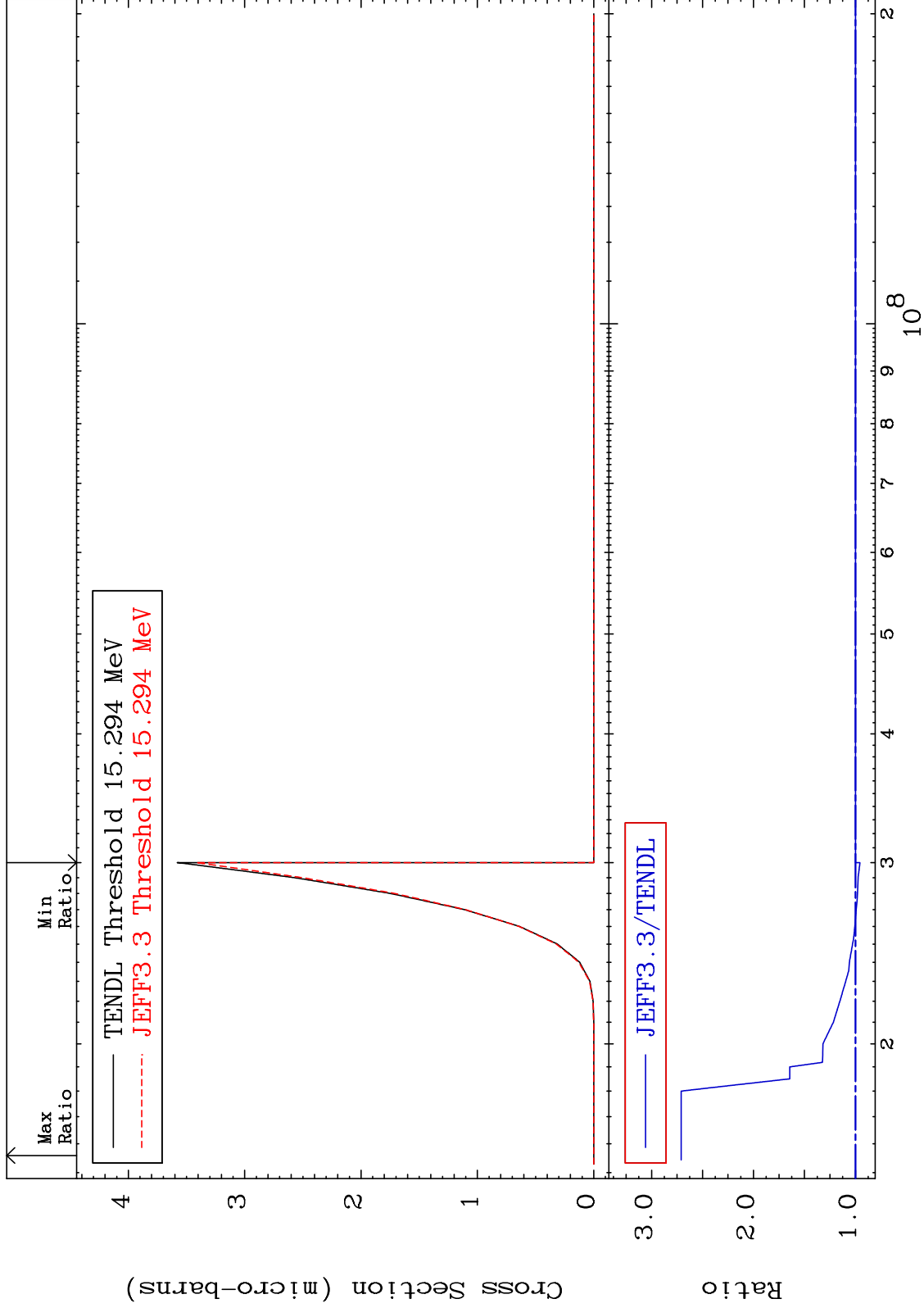
34-Se-77

MAT 3434

(n, p) d:32-Ge-75g

34-^{Se}-77

Radionuclide Production Cross Section -4.428 To 170.9 %



90

Incident Energy (eV)

34-^{Se}-77

MAT 3434

(n, p) d:32-Ge-75m2

34-Ge-77

Radionuclide Production Cross Section -5.126 To 175.7 %

