

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

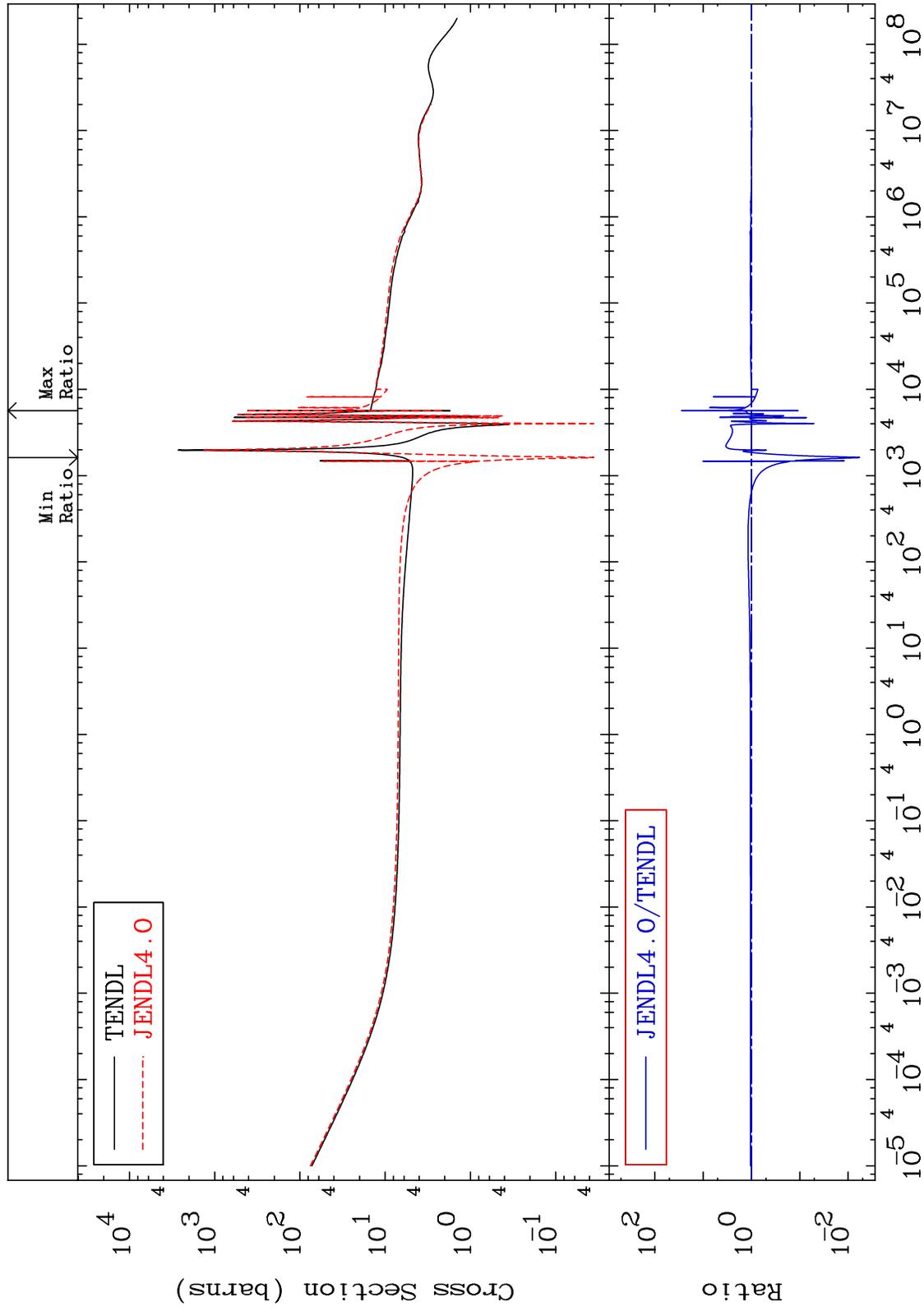
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 3443

Total
Cross Section

34-Se-80
-99.43 To 2709. %



1

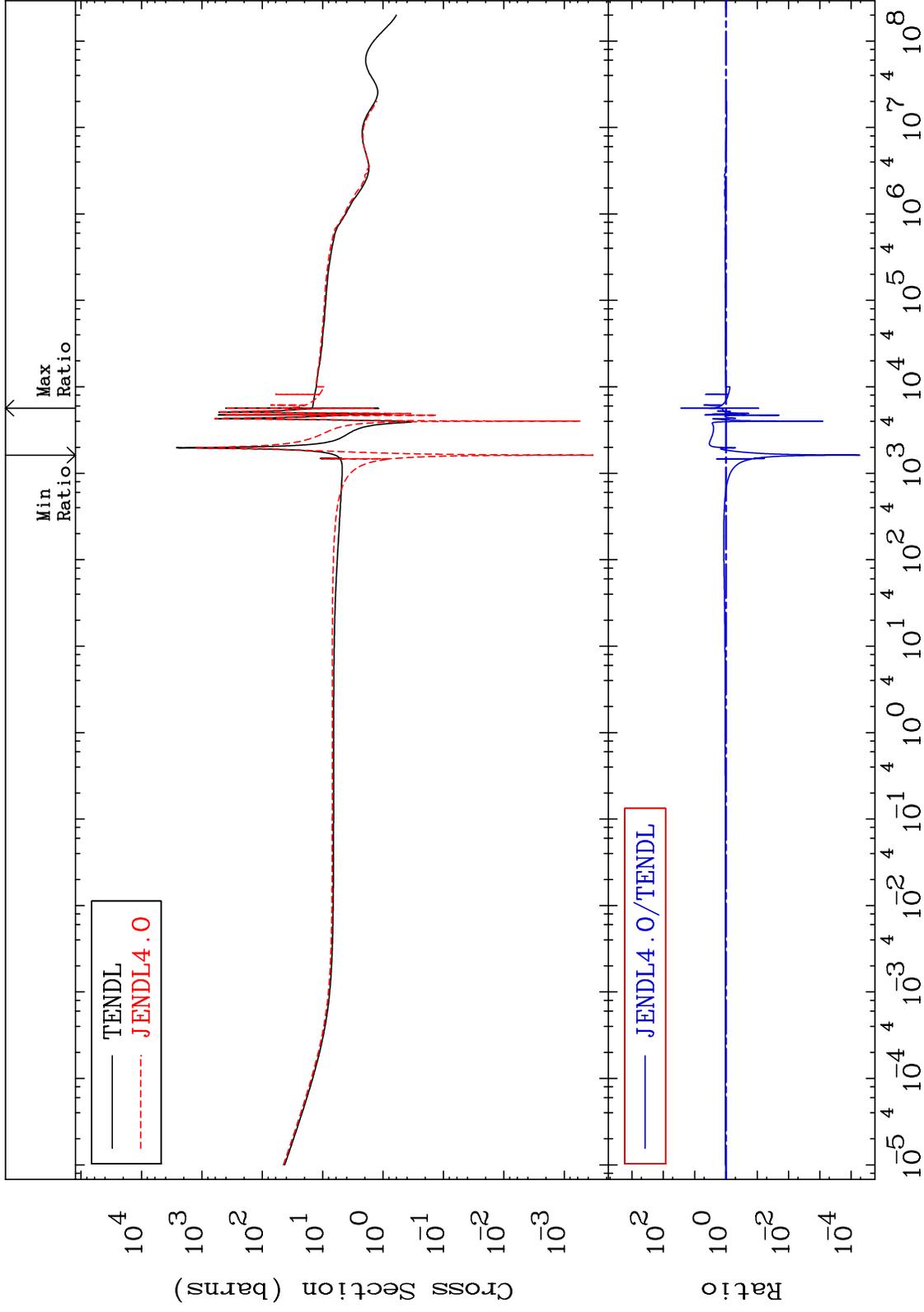
Incident Energy (eV)

34-Se-80

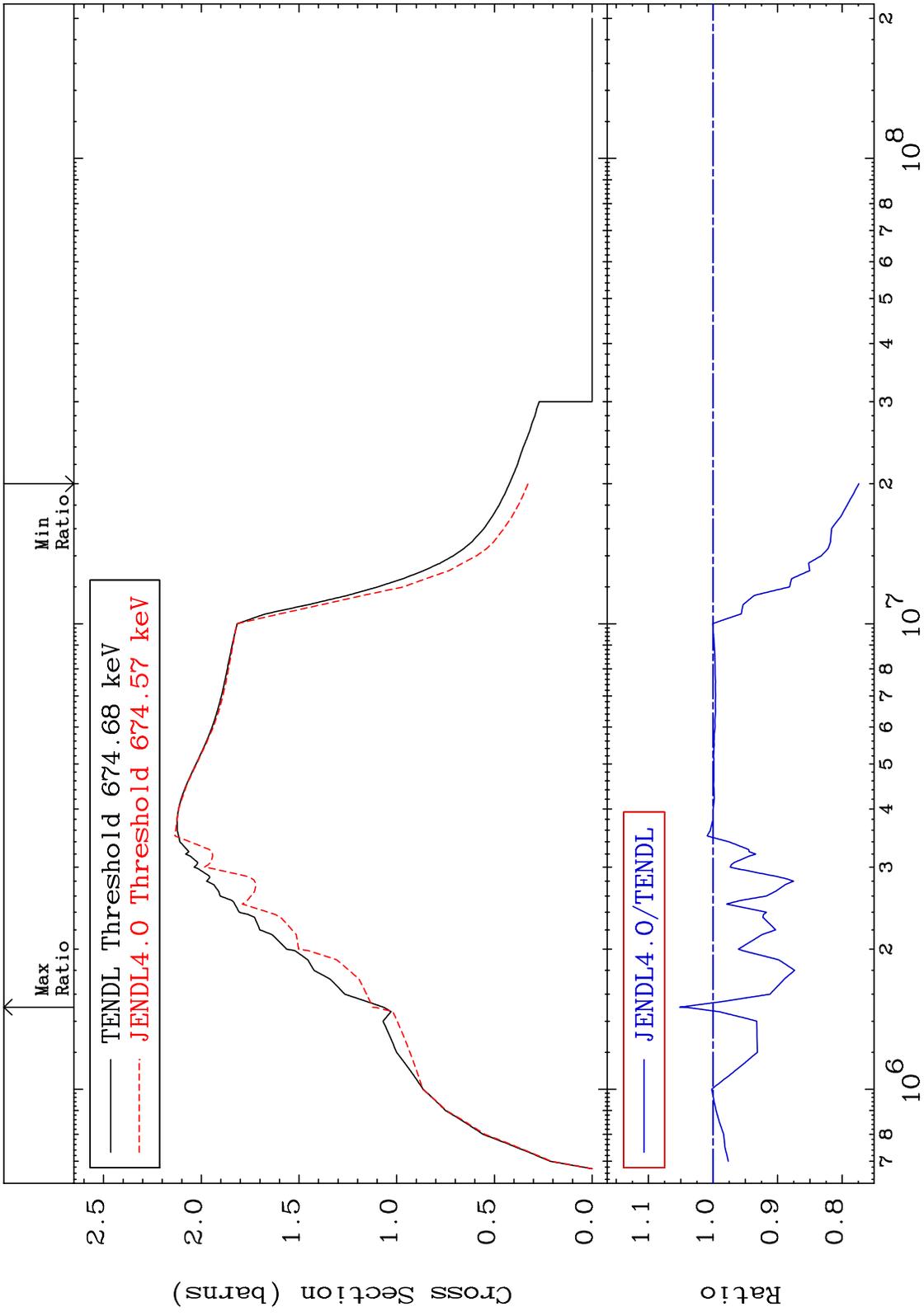
MAT 3443

Elastic
Cross Section

34-Se-80
-99.99 To 2664. %

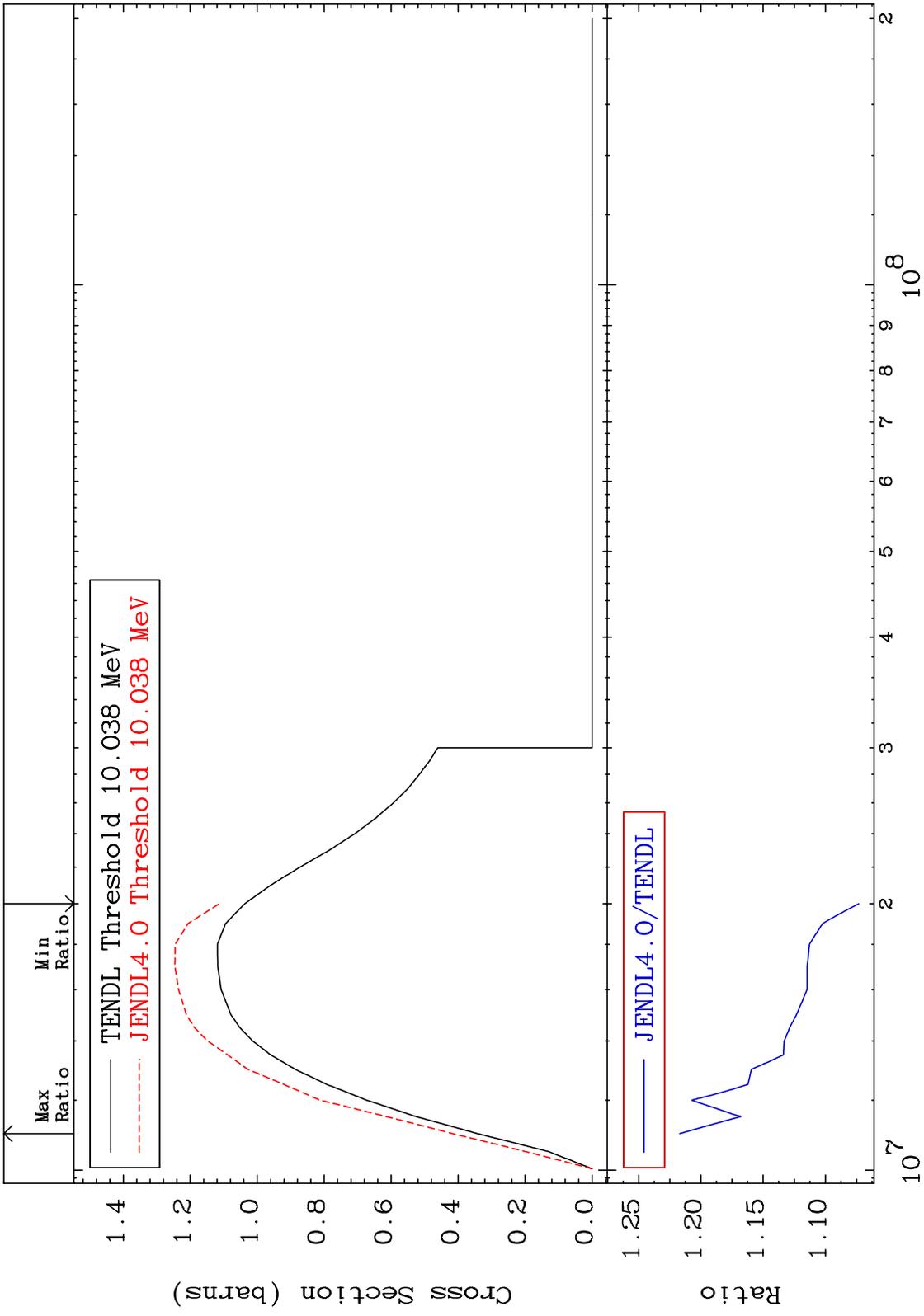


MAT 3443 Inelastic Cross Section 34-Se-80 -22.57 To 5.156 %



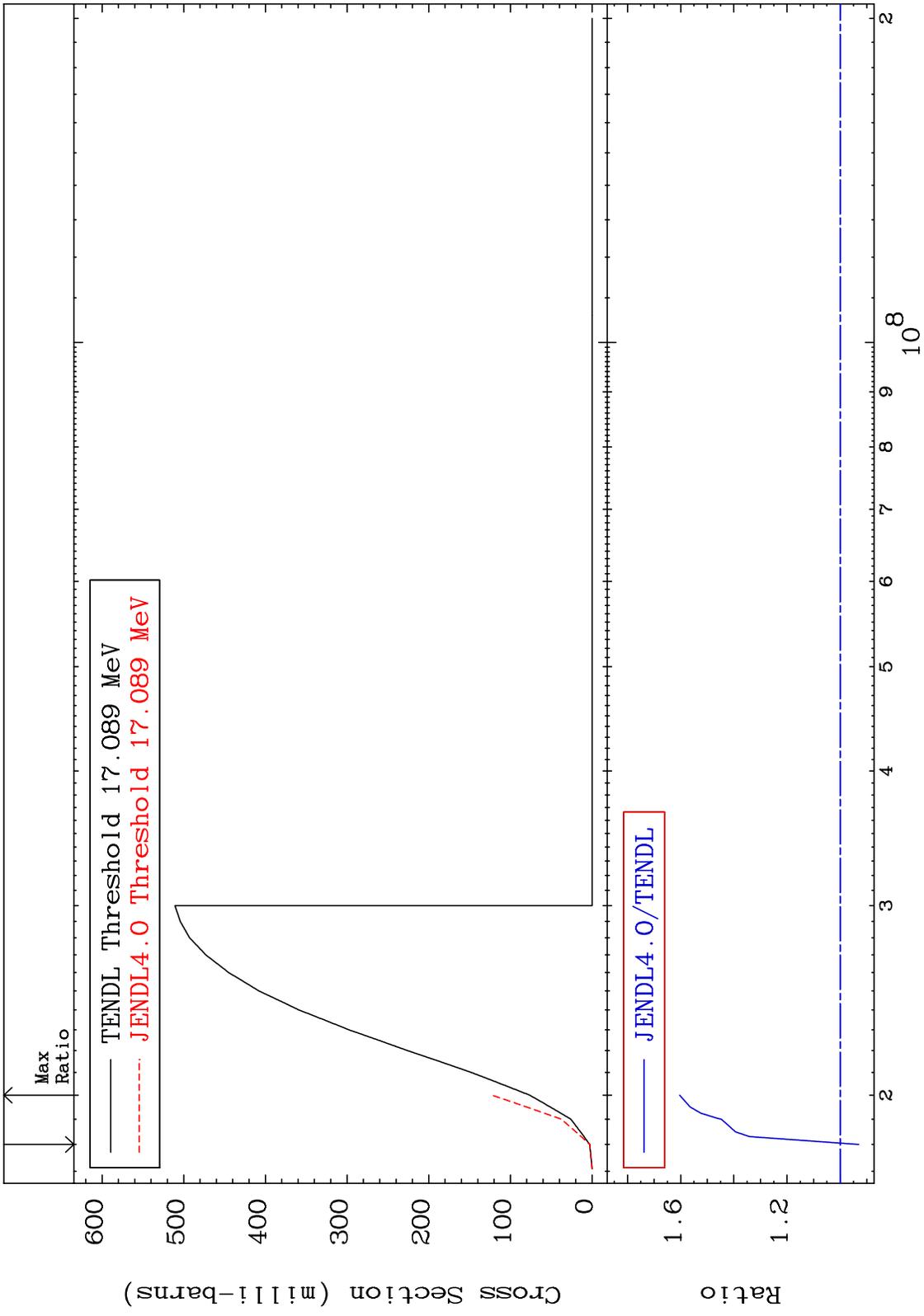
3 34-Se-80

MAT 3443 (n,2n) 34-Se-80
 Cross Section 7.314 To 21.71 %



34-Se-80

MAT 3443 (n,3n) 34-Se-80
 Cross Section -7.002 To 60.35 %



5 34-Se-80

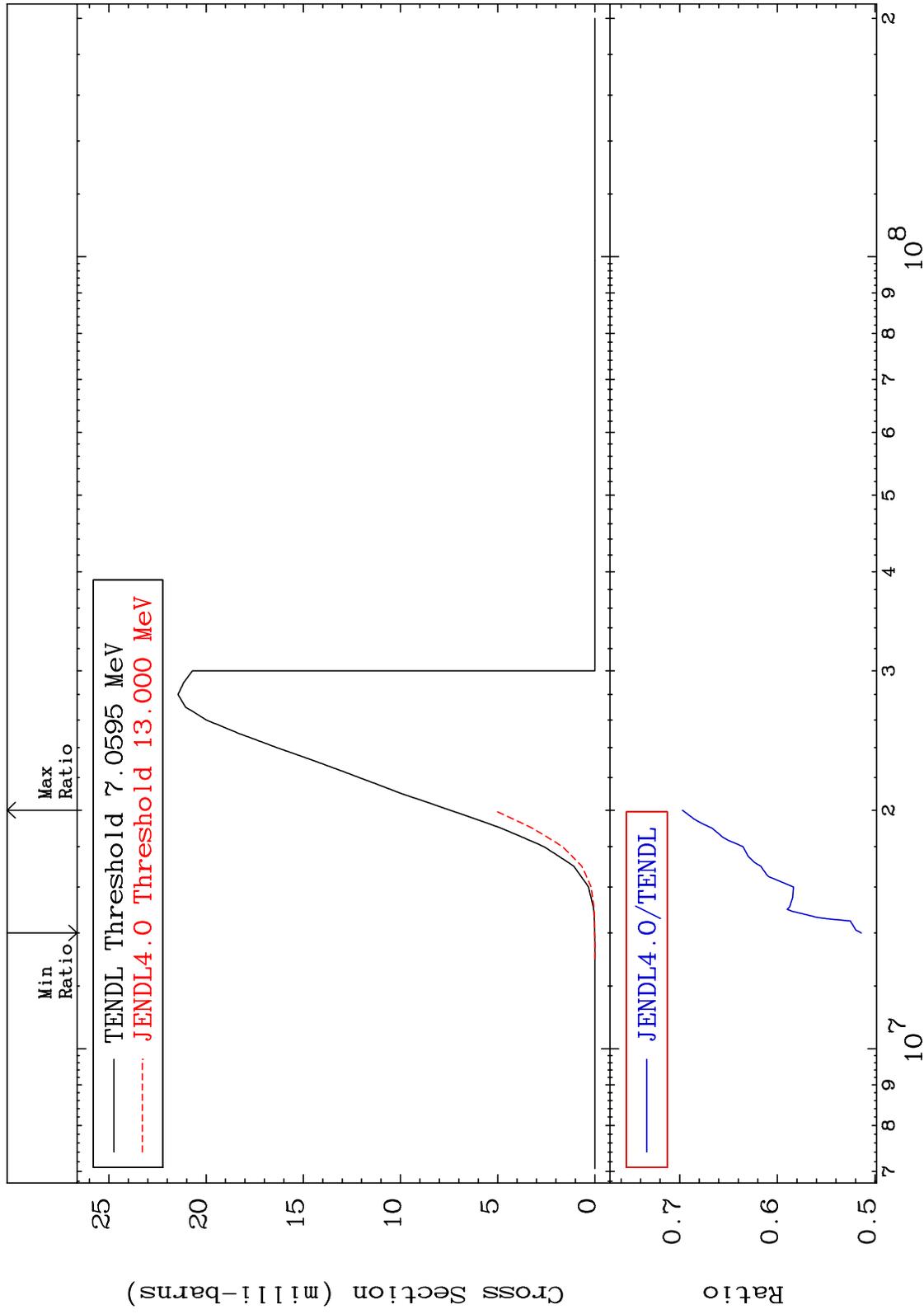
MAT 3443

(n,n') α

³⁴Se-80

Cross Section

-48.60 To -30.28%

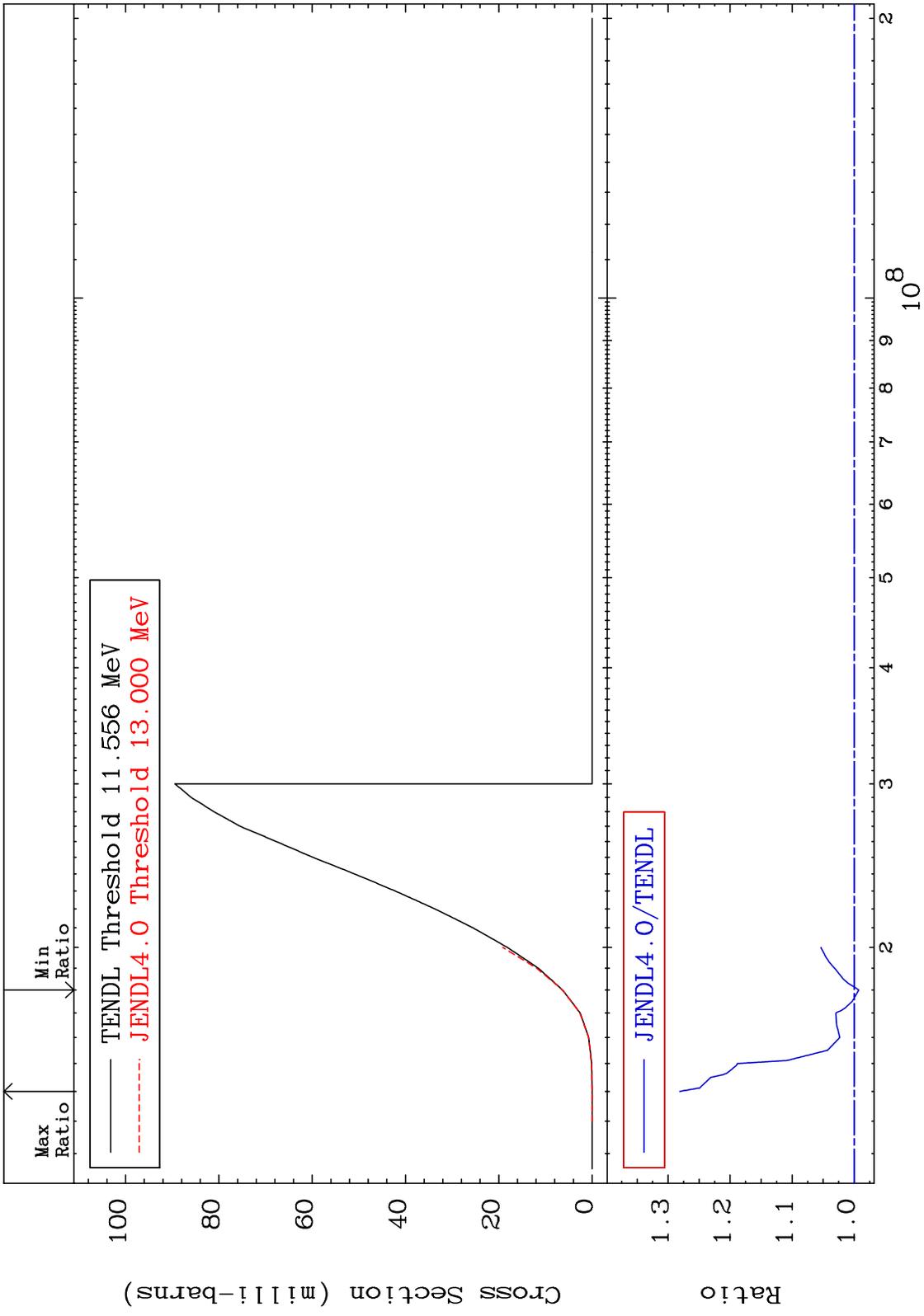


6

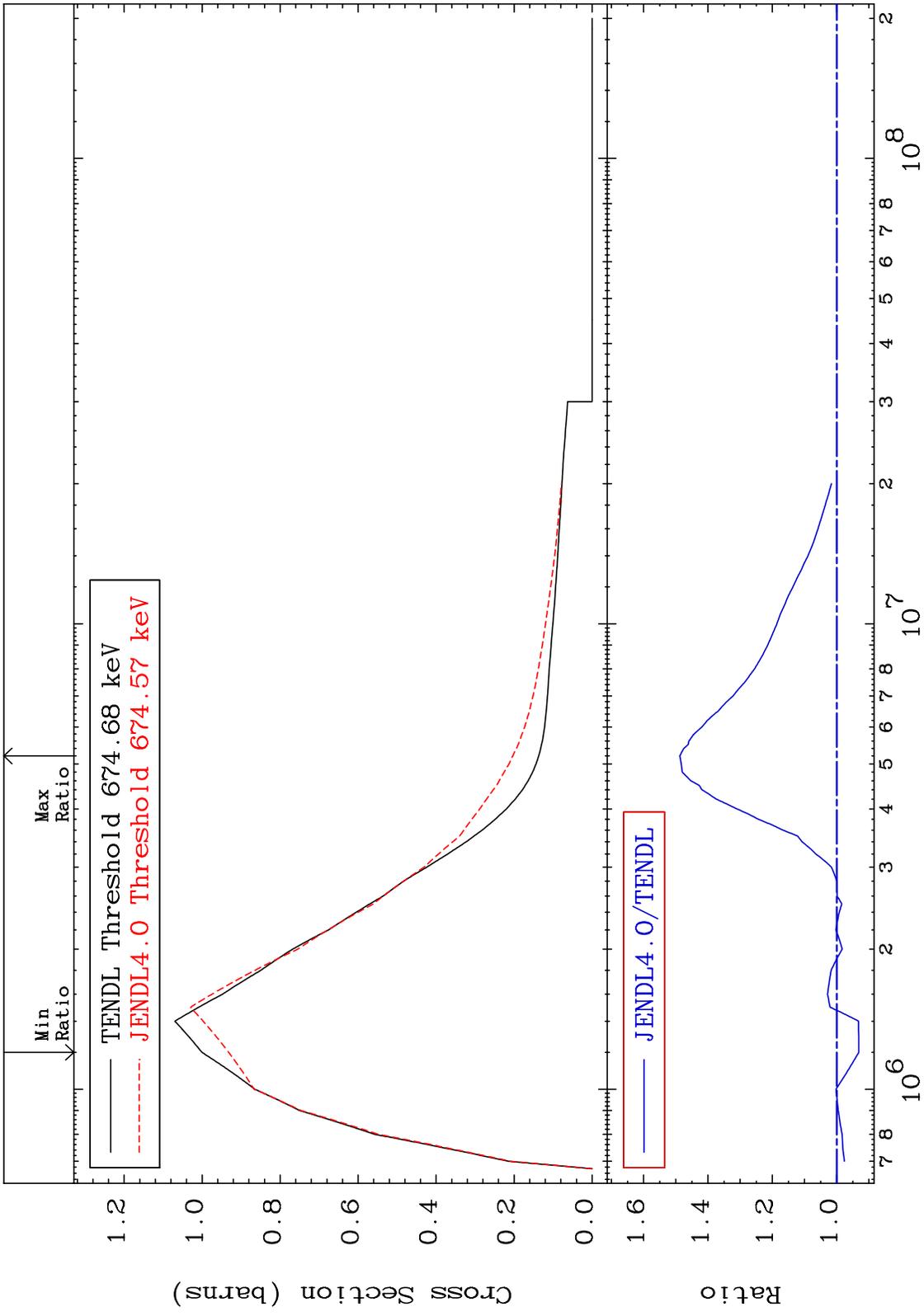
Incident Energy (eV)

³⁴Se-80

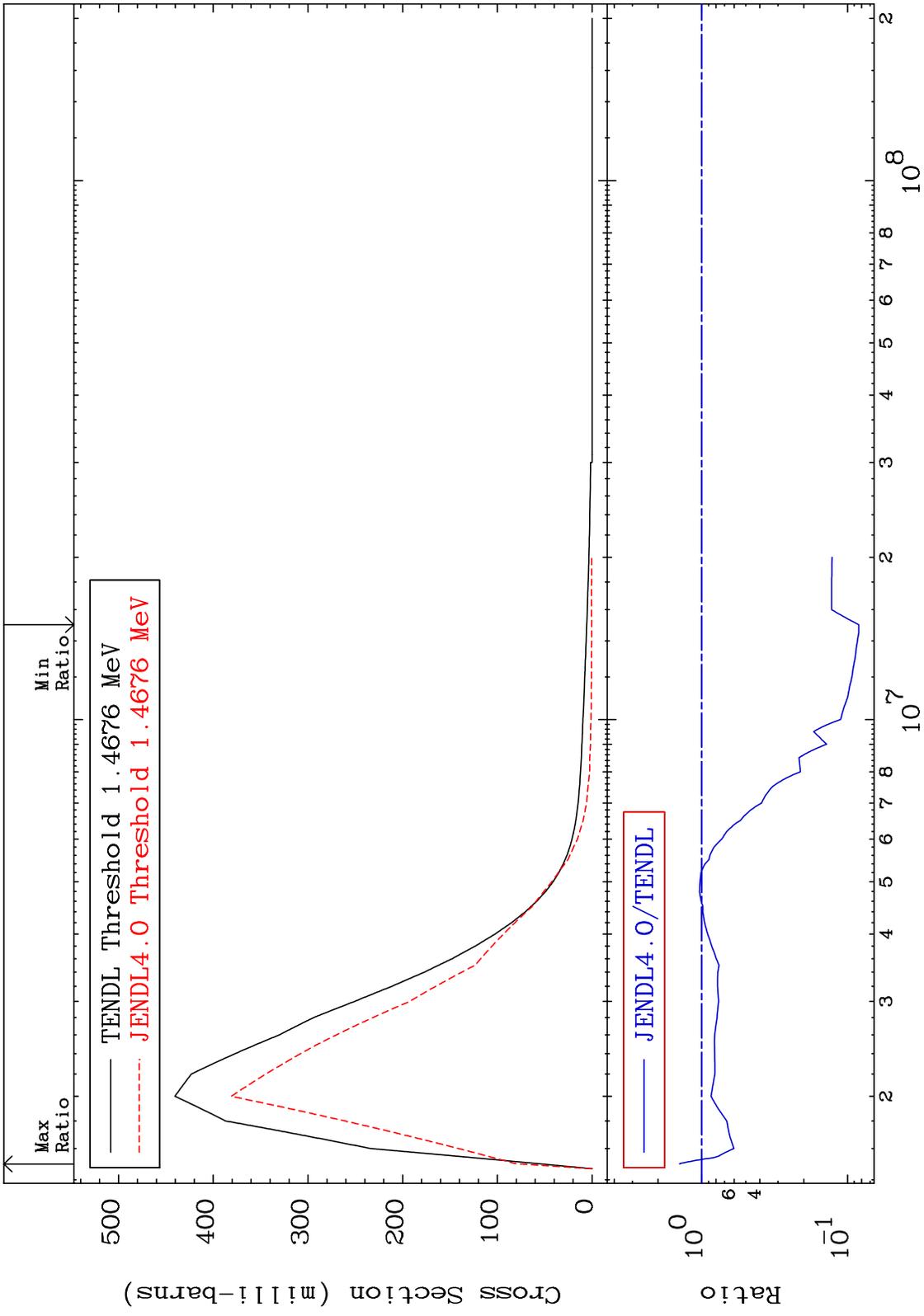
MAT 3443 (n,n') p 34-Se-80
 Cross Section -0.748 To 28.13 %



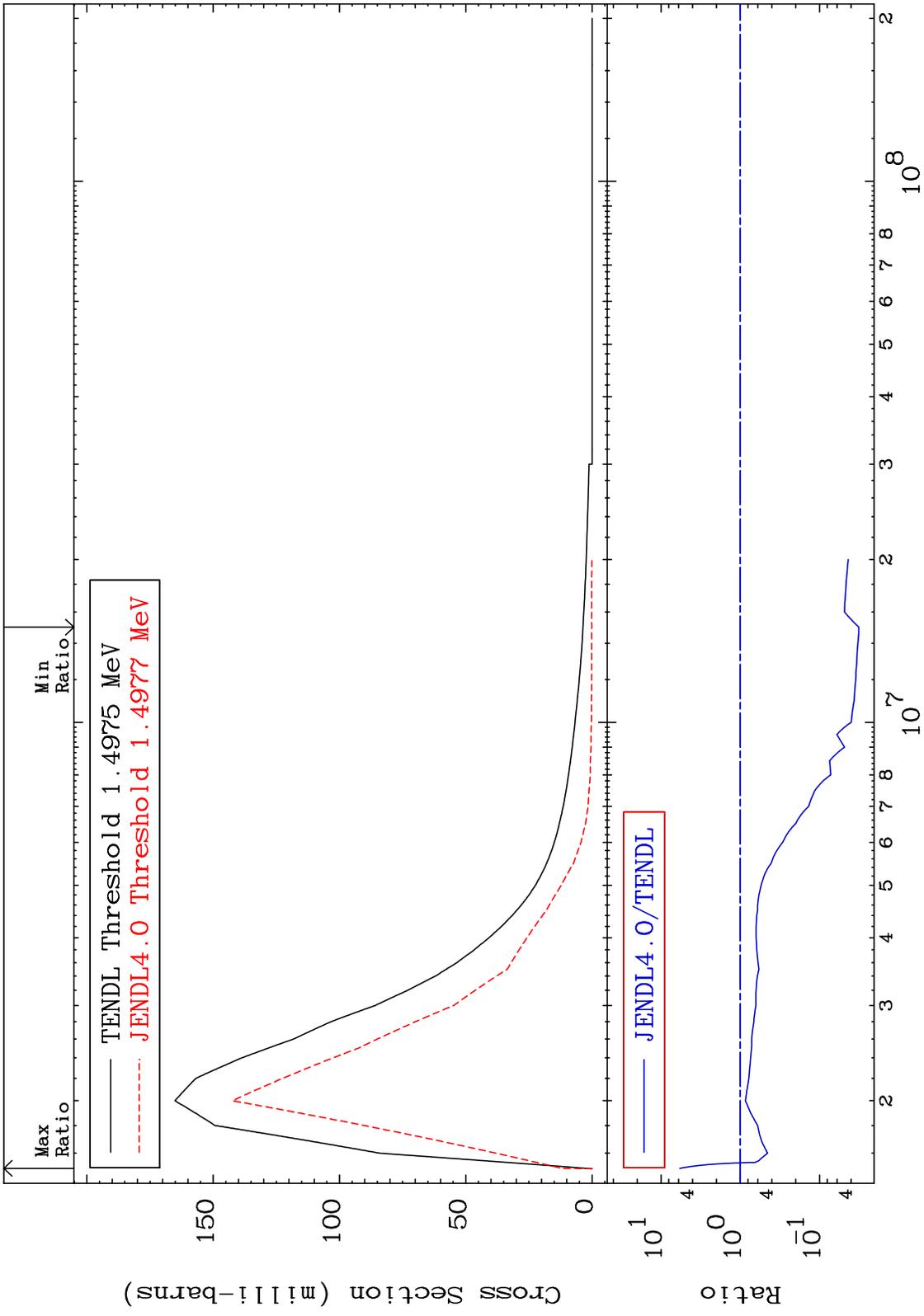
MAT 3443 MT= 51 (n,n') Level Cross Section 34-Se-80 -6.852 To 48.78 %



MAT 3443 MT= 52 (n,n') Level Cross Section -91.63 To 41.91 % 34-Se-80

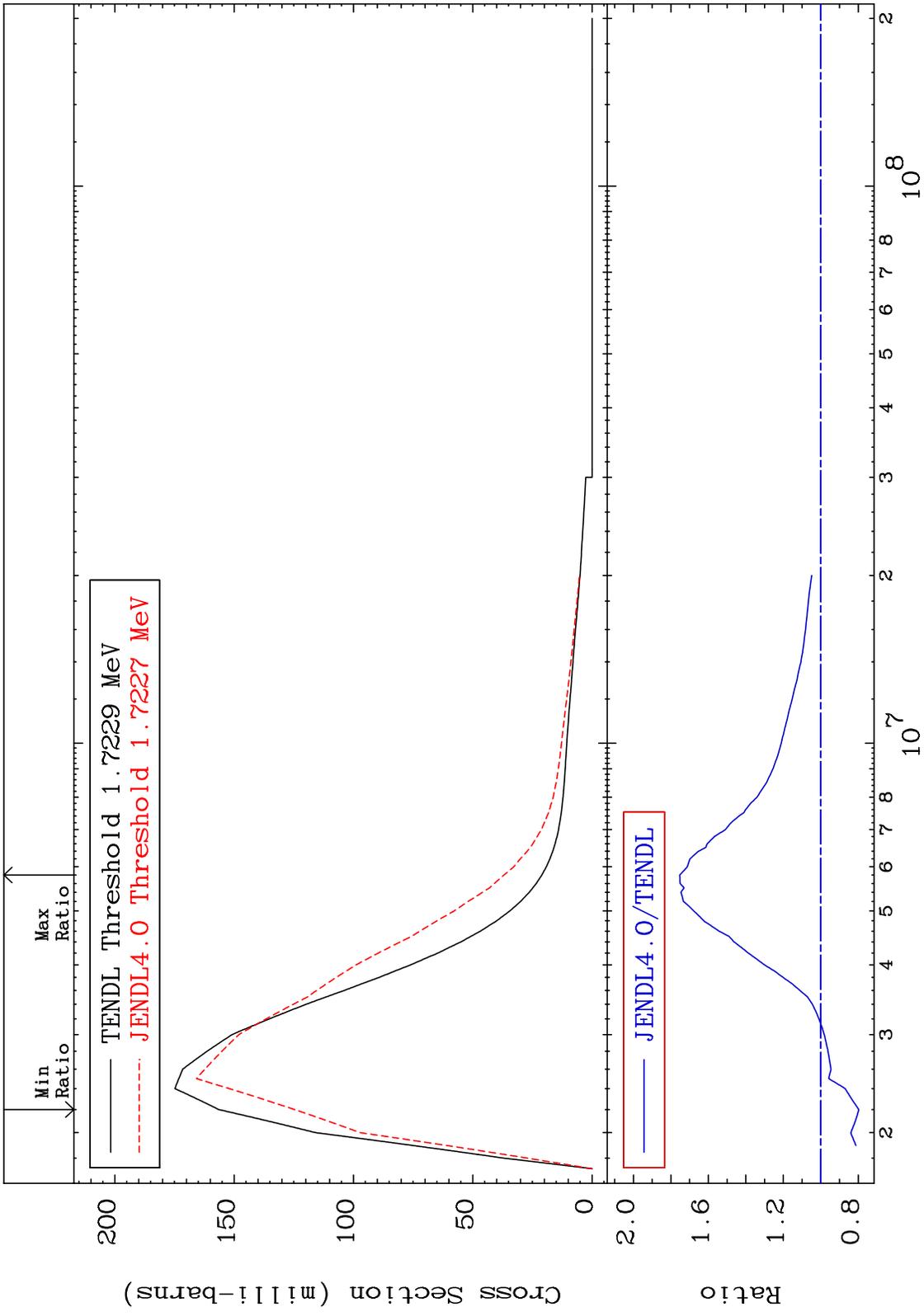


MAT 3443 MT= 53 (n,n') Level Cross Section 34-Se-80 -96.80 To 481.6 %

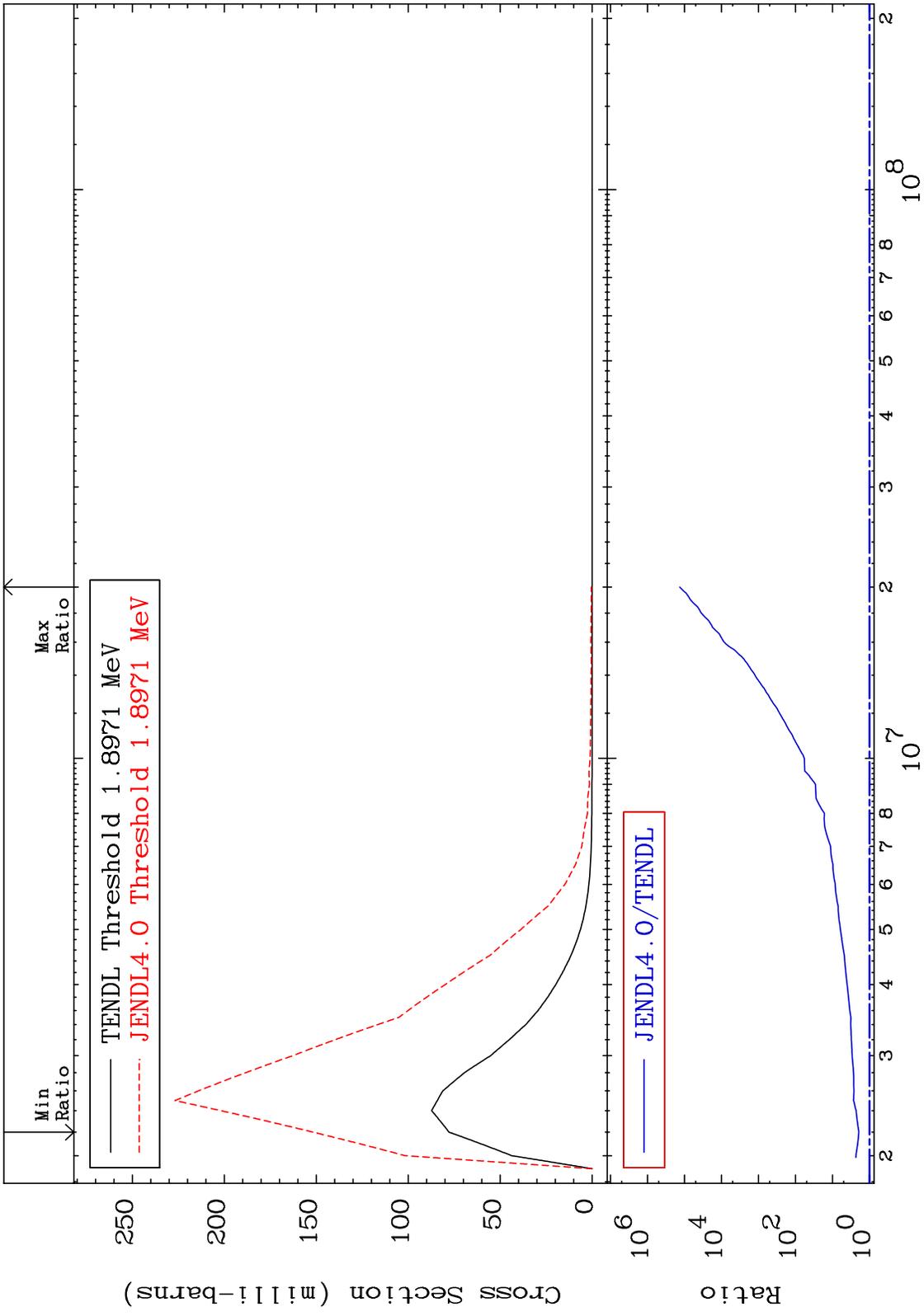


10 34-Se-80

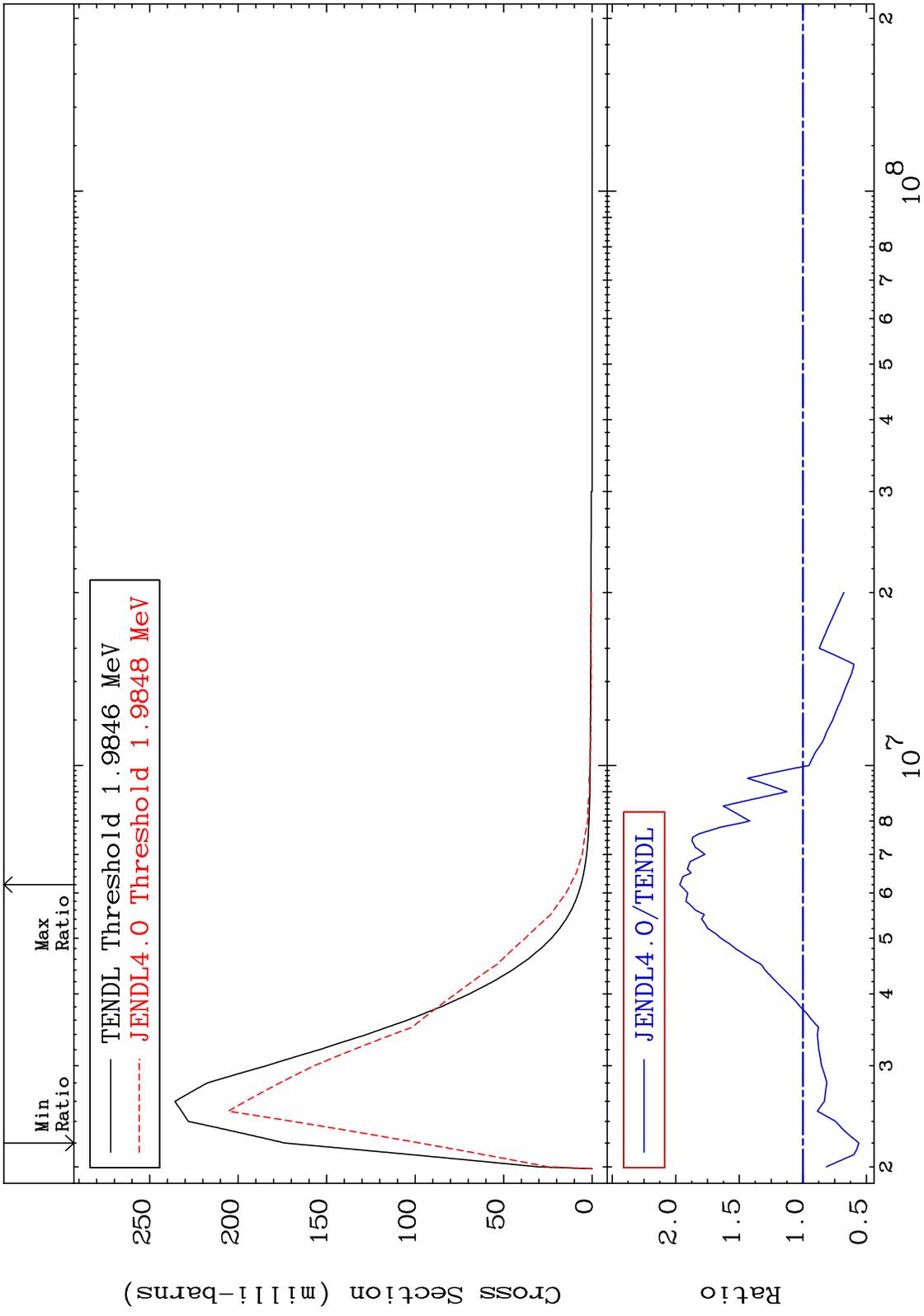
MAT 3443 MT= 54 (n,n') Level Cross Section 34-Se-80
 -20.31 To 75.27 %



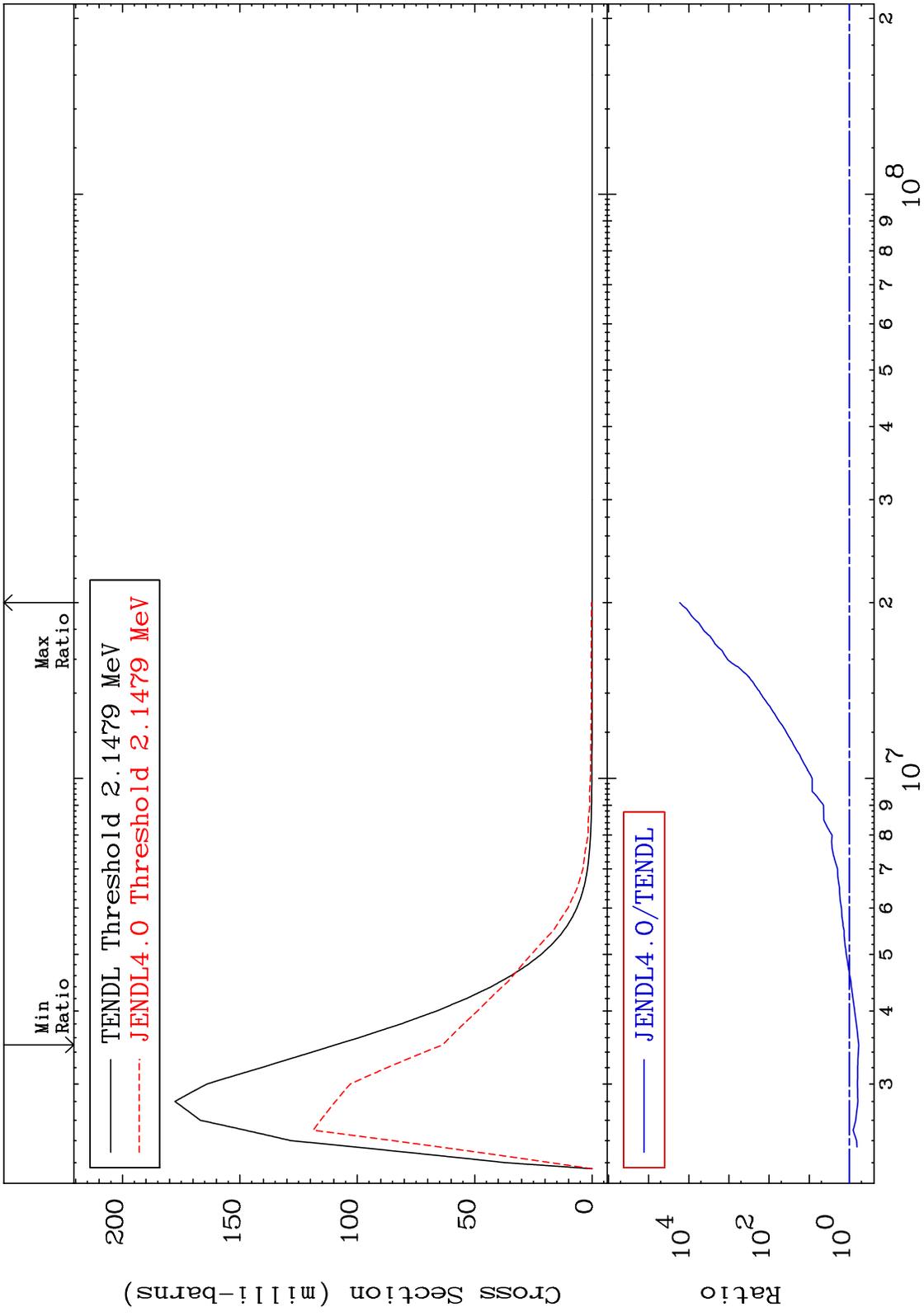
MAT 3443 MT= 55 (n,n') Level Cross Section 34-Se-80 To 9999. %



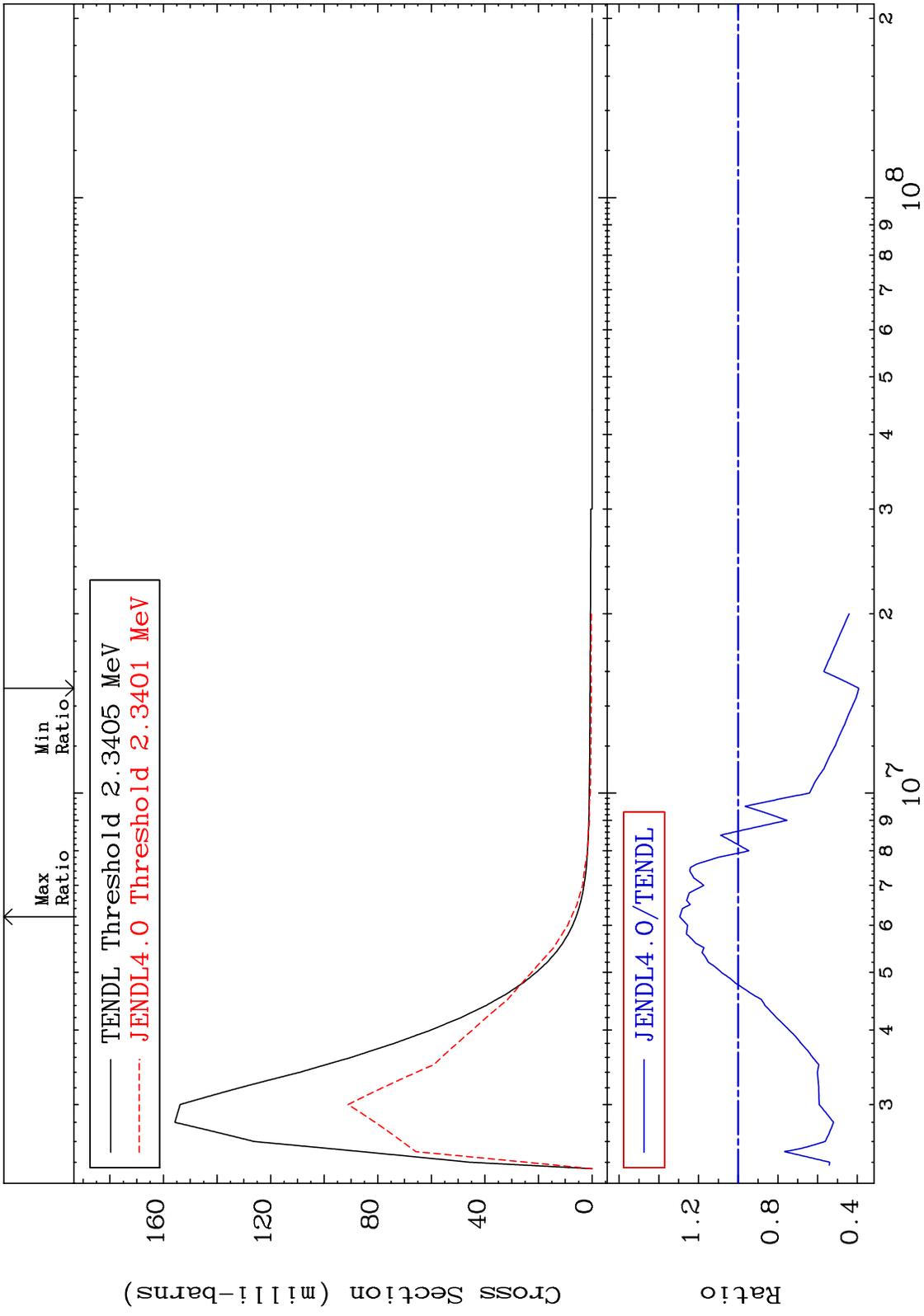
MAT 3443 MT= 56 (n,n') Level Cross Section 34-Se-80
 -44.01 To 96.85 %



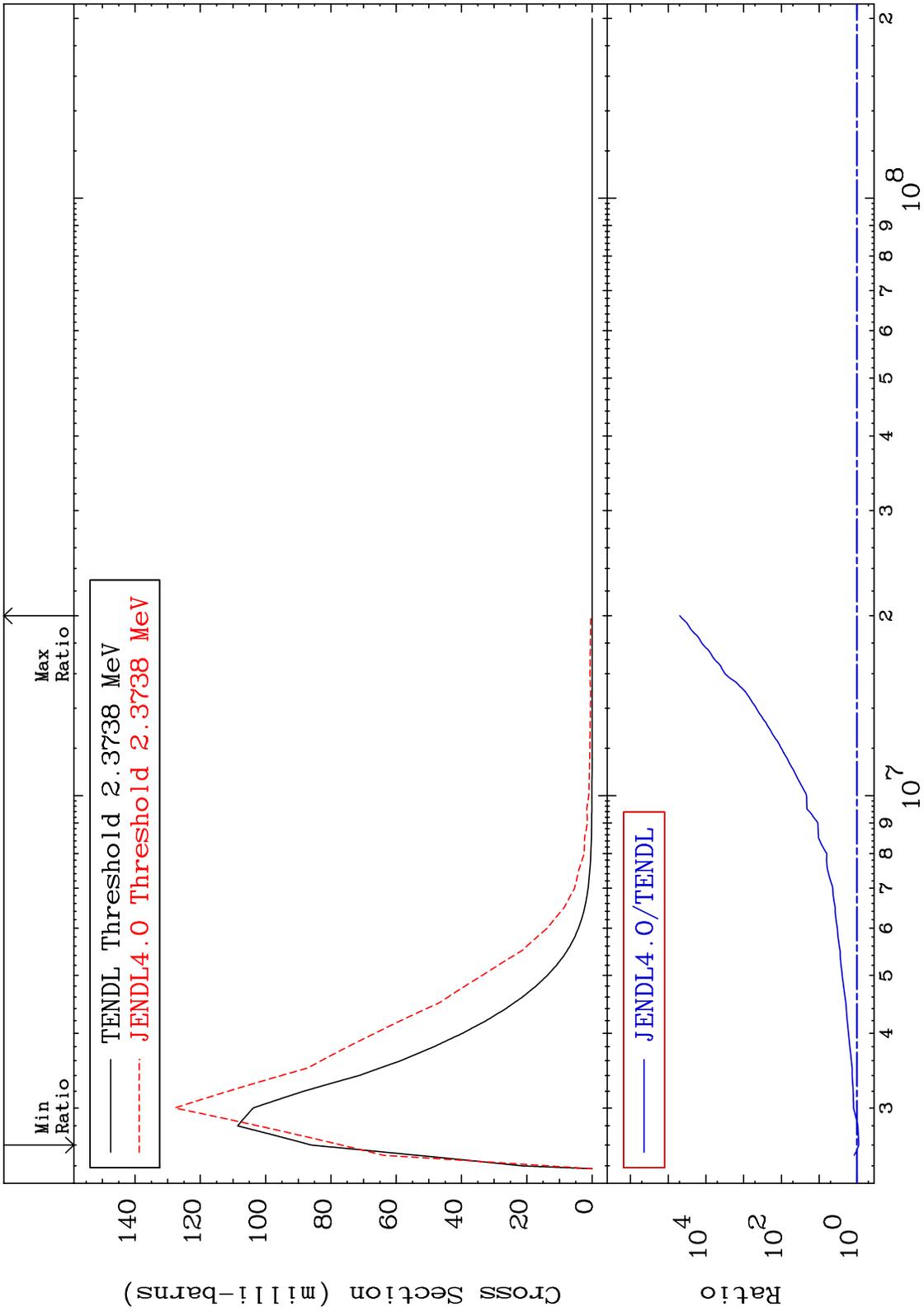
MAT 3443 MT= 57 (n,n') Level Cross Section 34-Se-80
 -41.76 To 9999. %



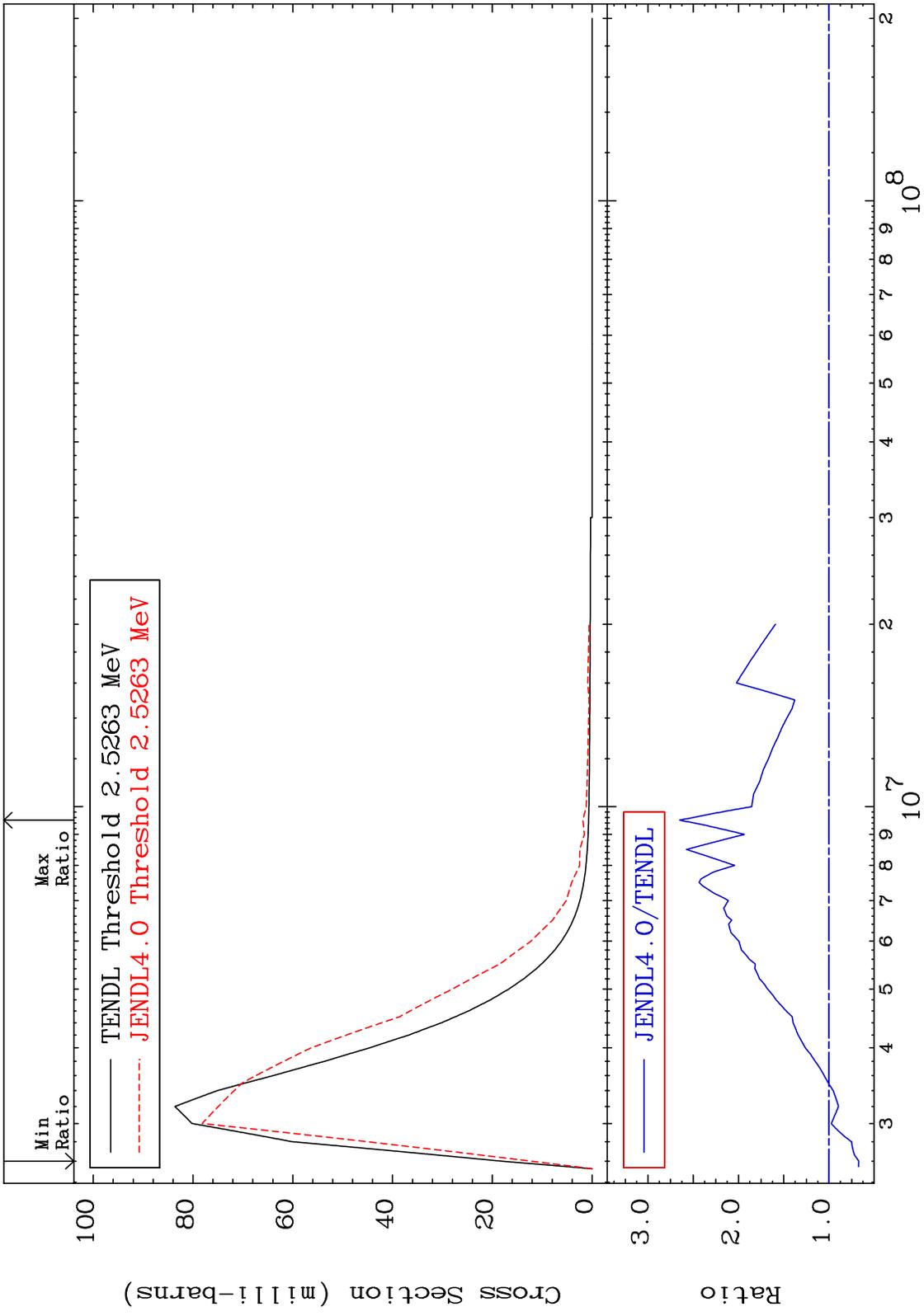
MAT 3443 MT= 58 (n,n') Level Cross Section -60.74 To 29.44 % 34-Se-80



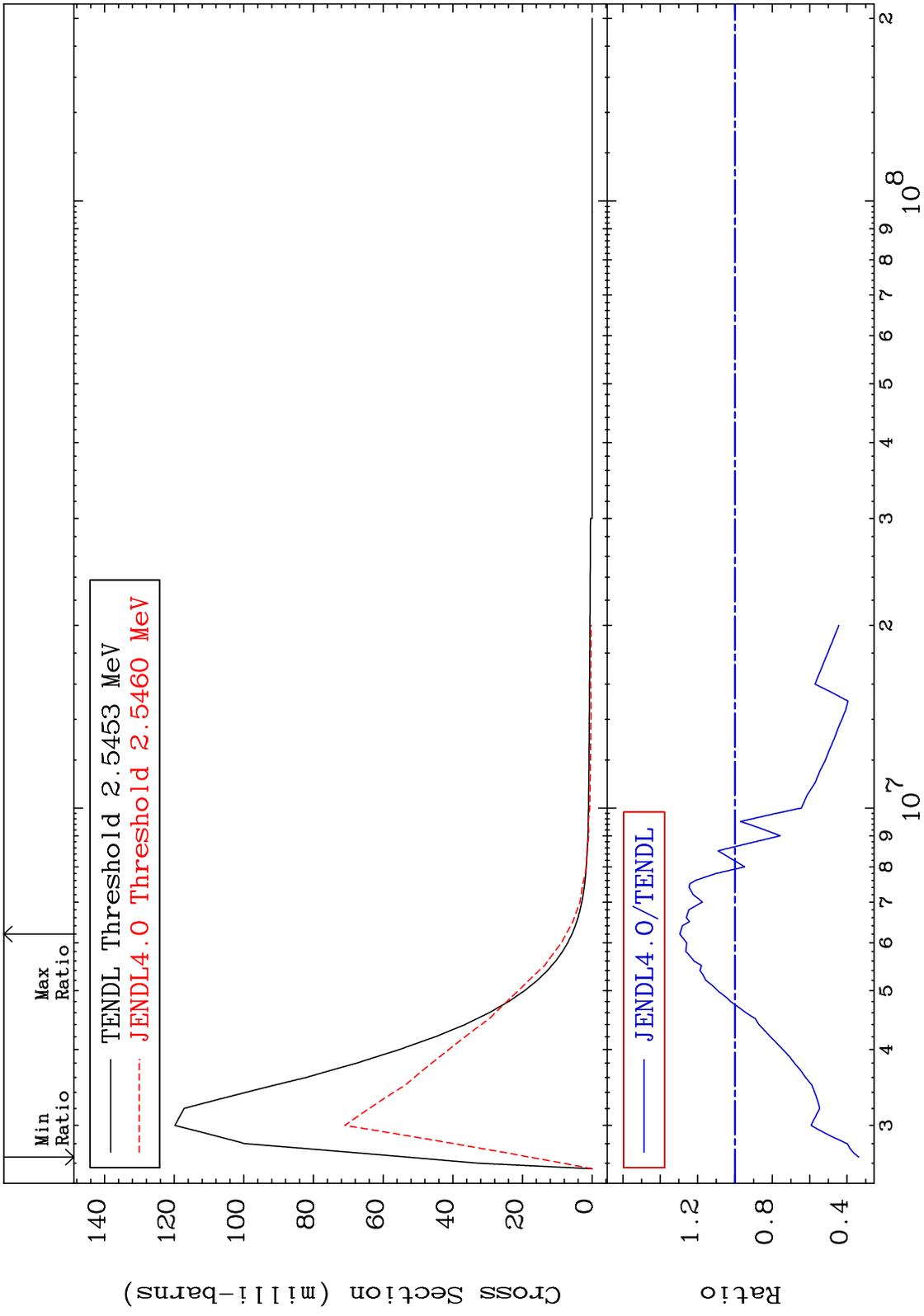
MAT 3443 MT= 59 (n,n') Level Cross Section -10.77 To 9999. % 34-Se-80



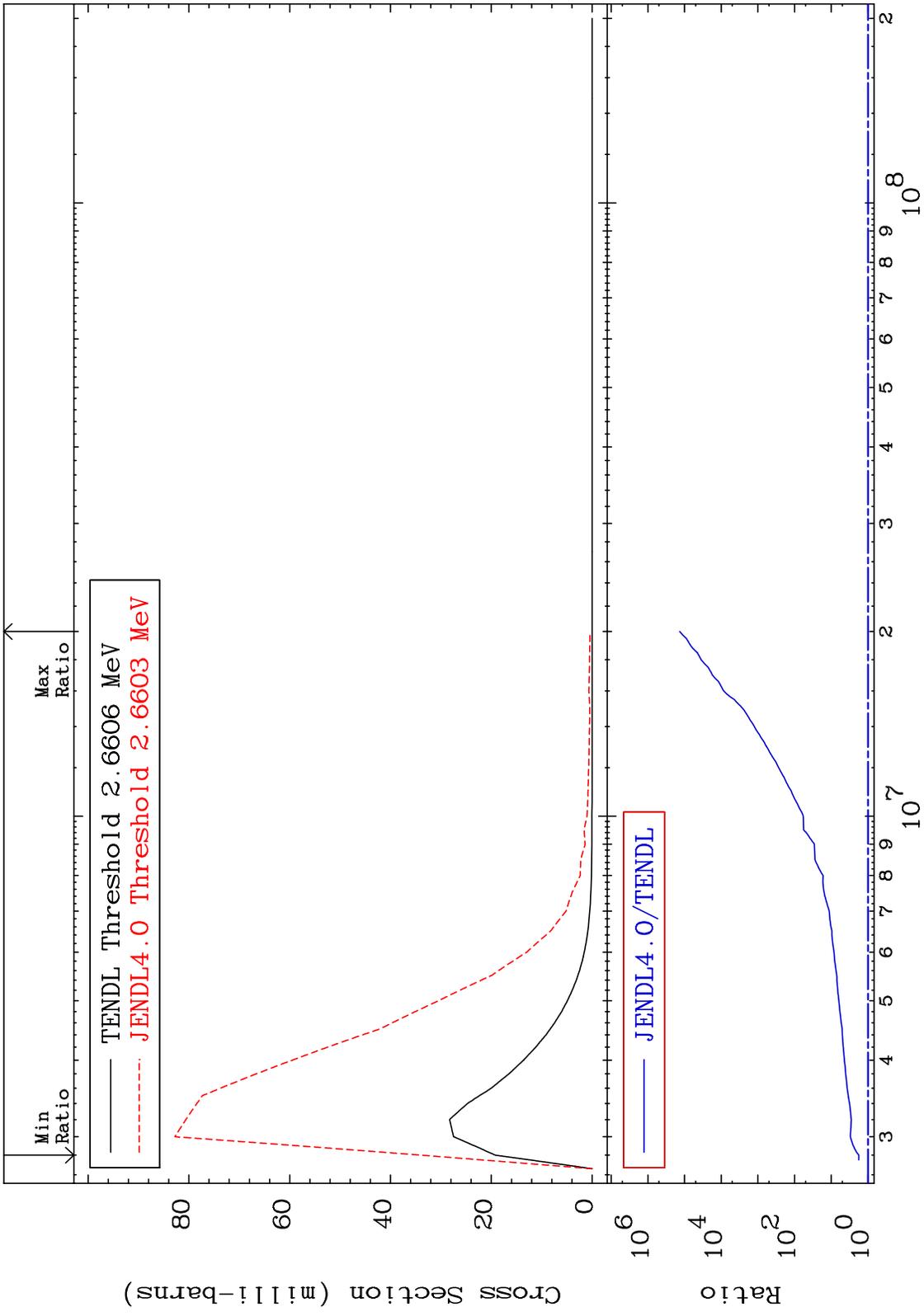
MAT 3443 MT= 60 (n,n') Level Cross Section 34-Se-80
 -32.87 To 164.9 %



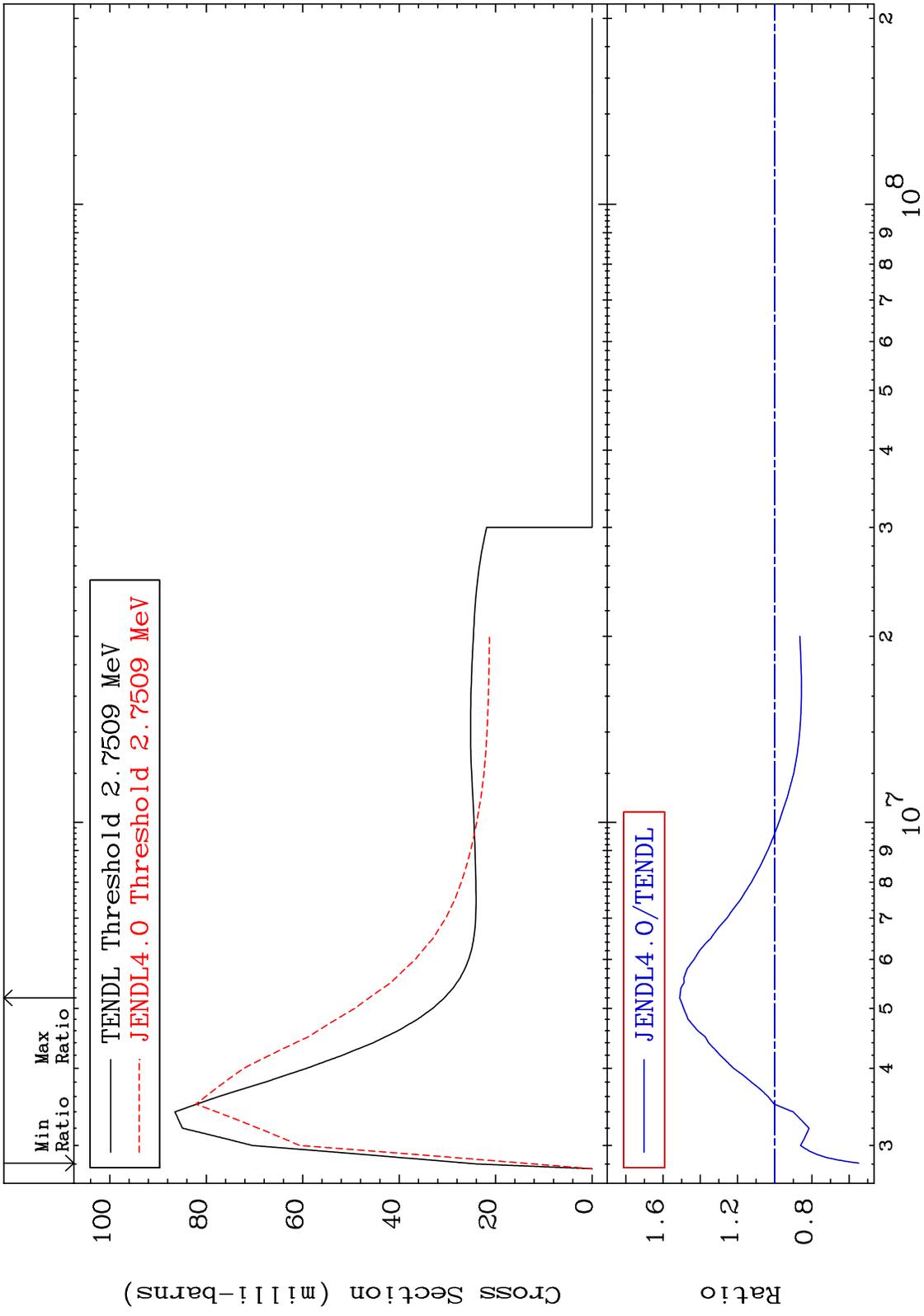
MAT 3443 MT= 61 (n,n') Level Cross Section 34-Se-80
 -66.31 To 29.55 %



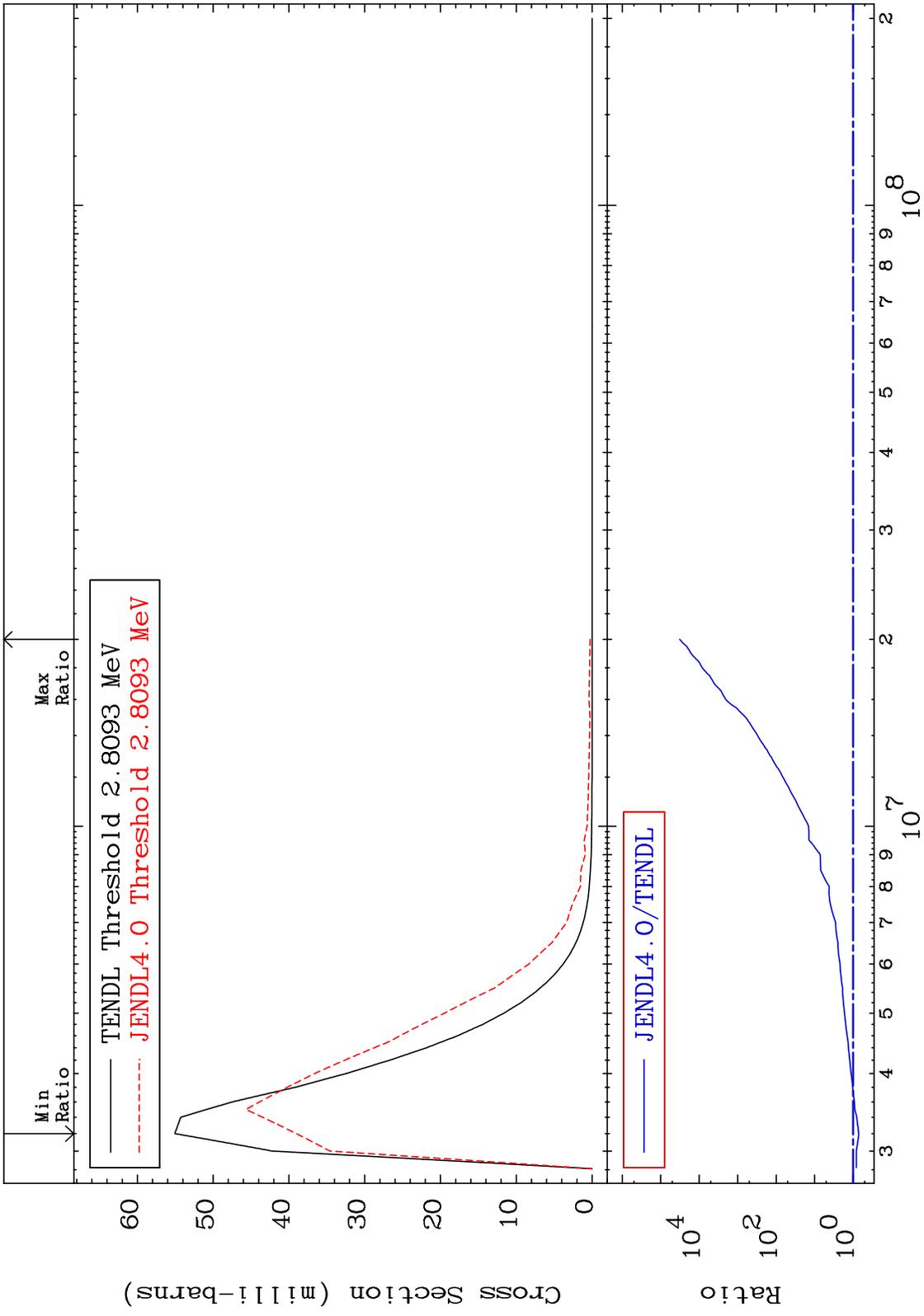
MAT 3443 MT= 62 (n,n') Level Cross Section 34-Se-80 77.11 To 9999. %



MAT 3443 MT= 63 (n,n') Level Cross Section 34-Se-80
 -45.26 To 50.97 %

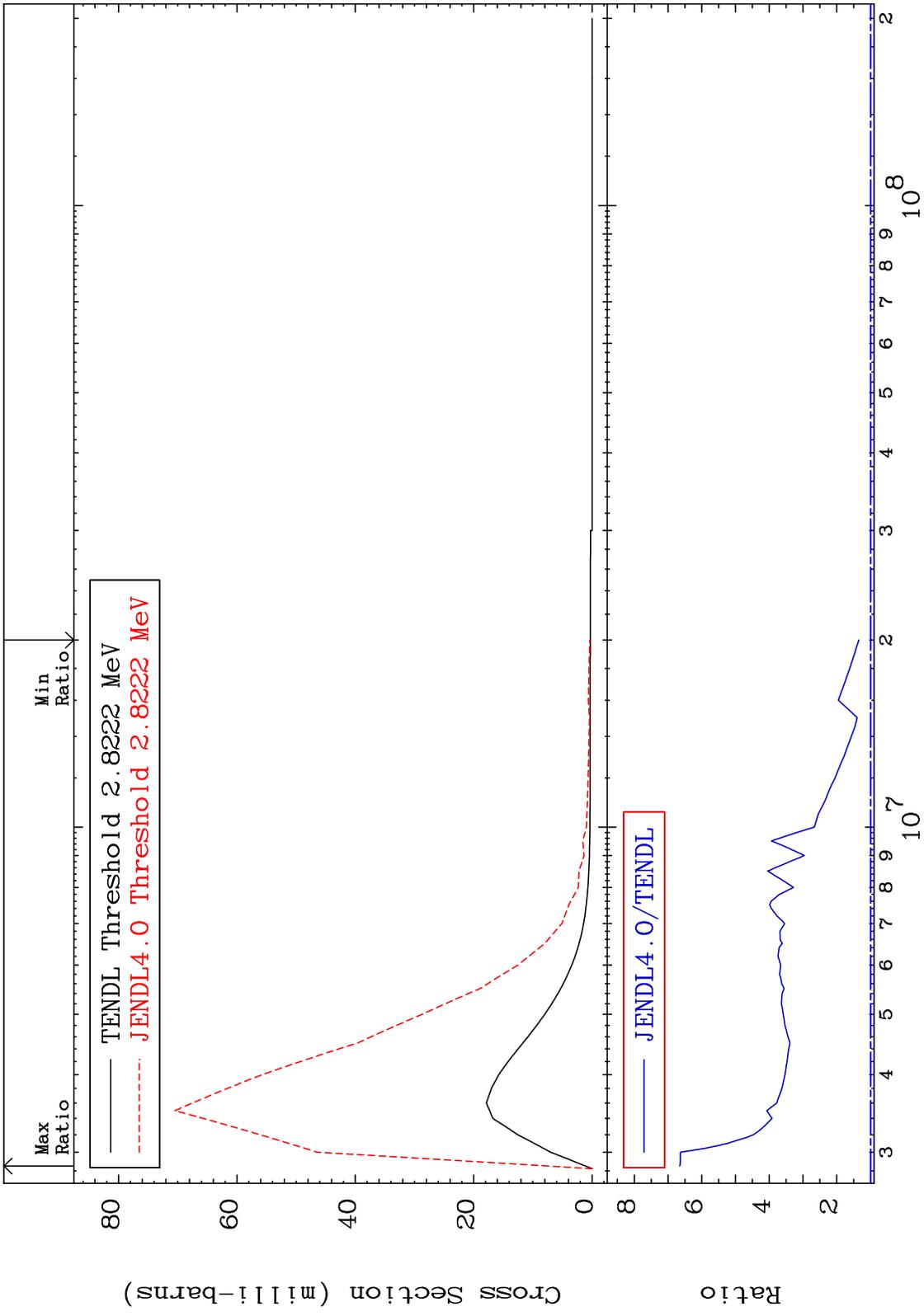


MAT 3443 MT= 64 (n,n') Level Cross Section 34-Se-80
 -29.10 To 9999. %

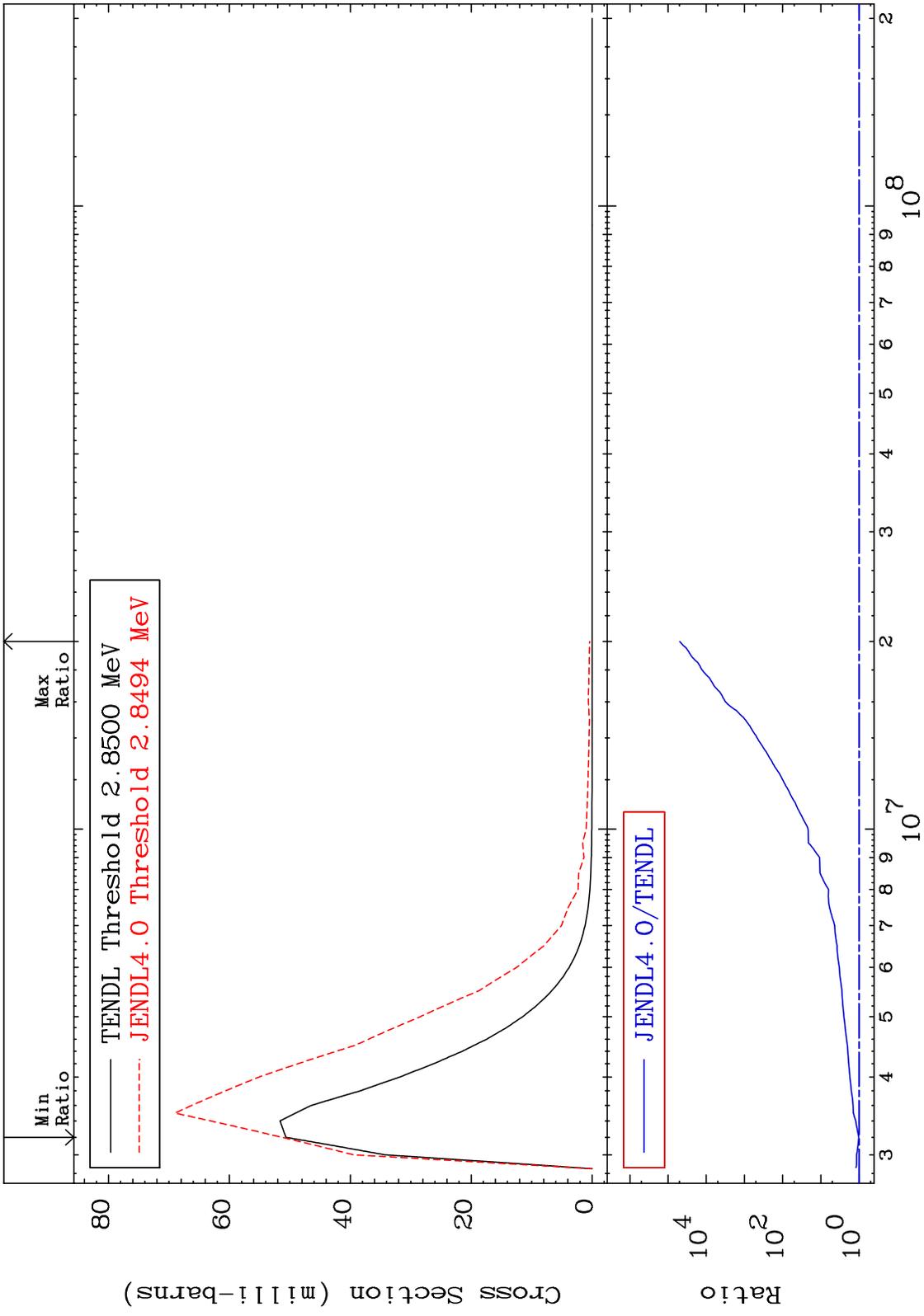


Incident Energy (eV) 34-Se-80

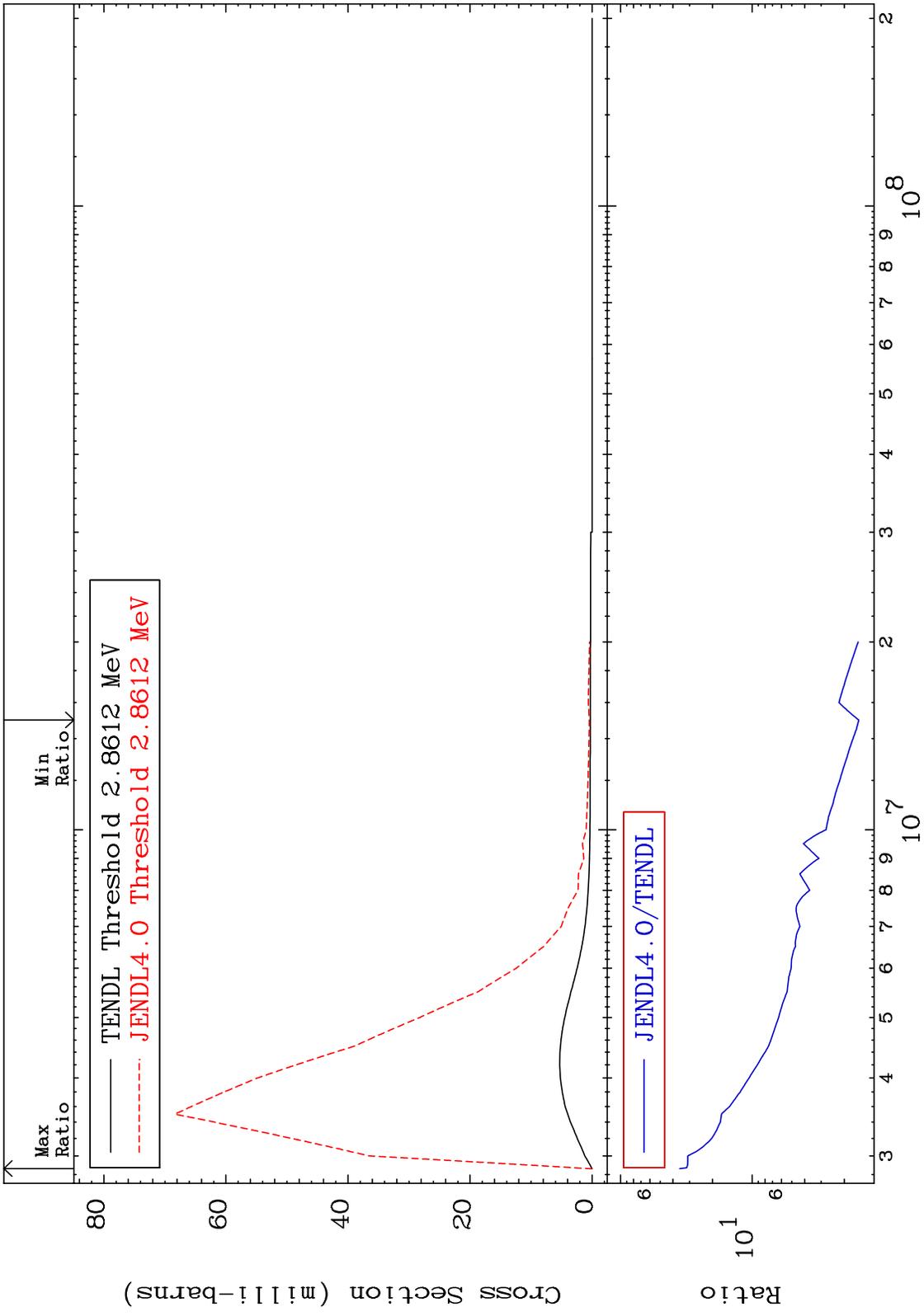
MAT 3443 MT= 65 (n,n') Level Cross Section 34.65 To 565.2 % 34-Se-80



MAT 3443 MT= 66 (n,n') Level Cross Section 34-Se-80 To 9999. %
 1.225

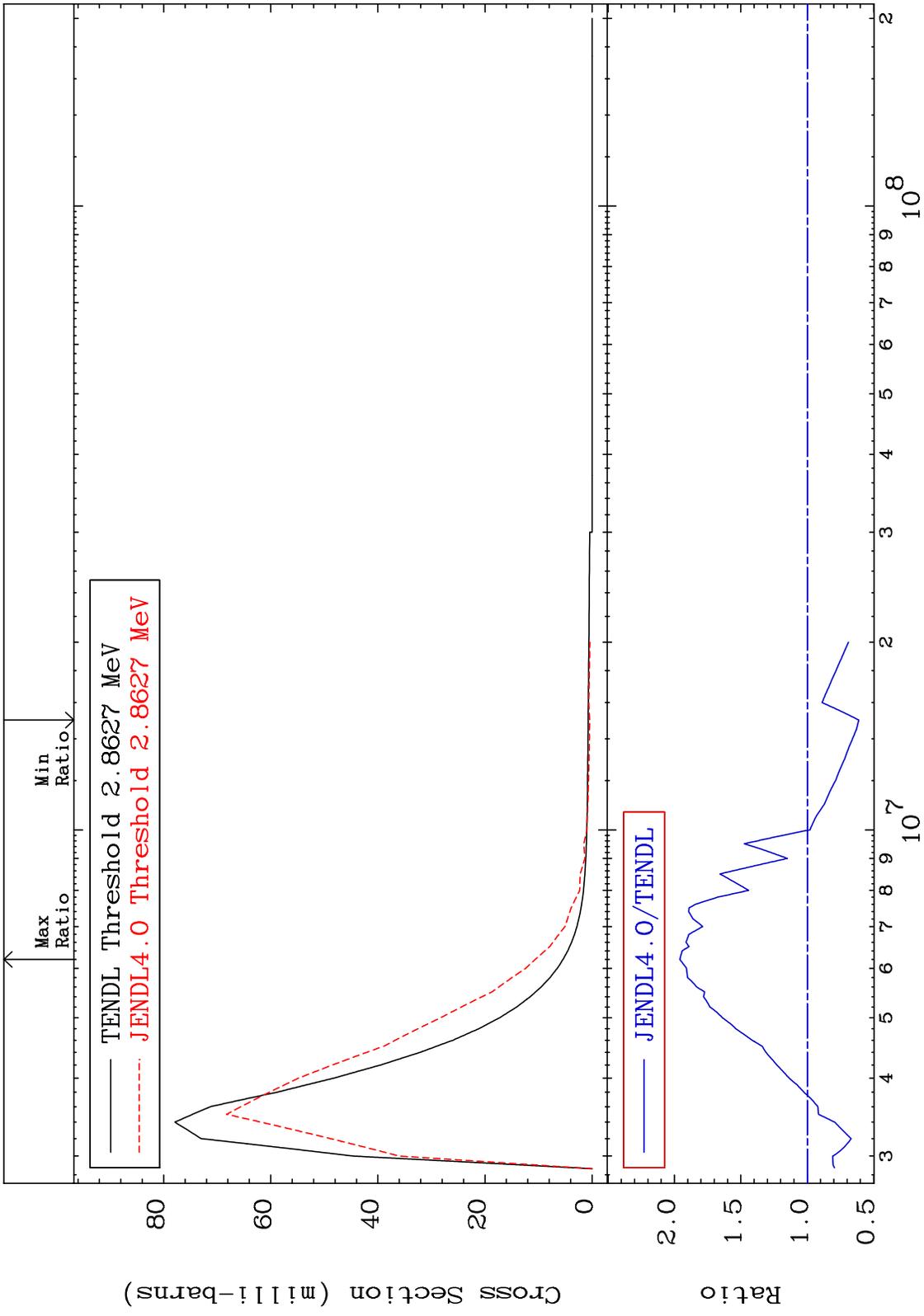


MAT 3443 MT= 67 (n,n') Level Cross Section 34-Se-80 54.90 To 3455. %

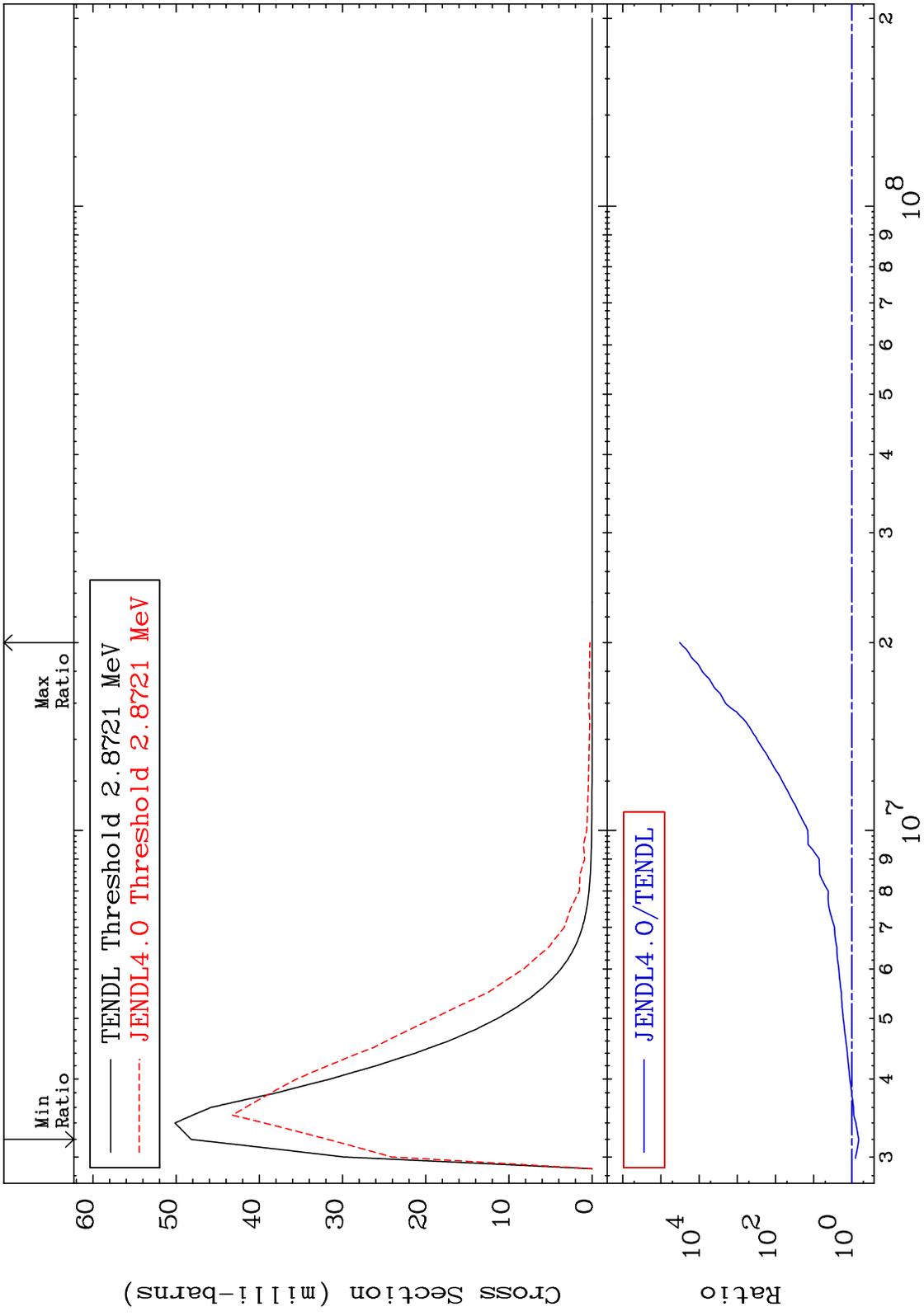


24 34-Se-80

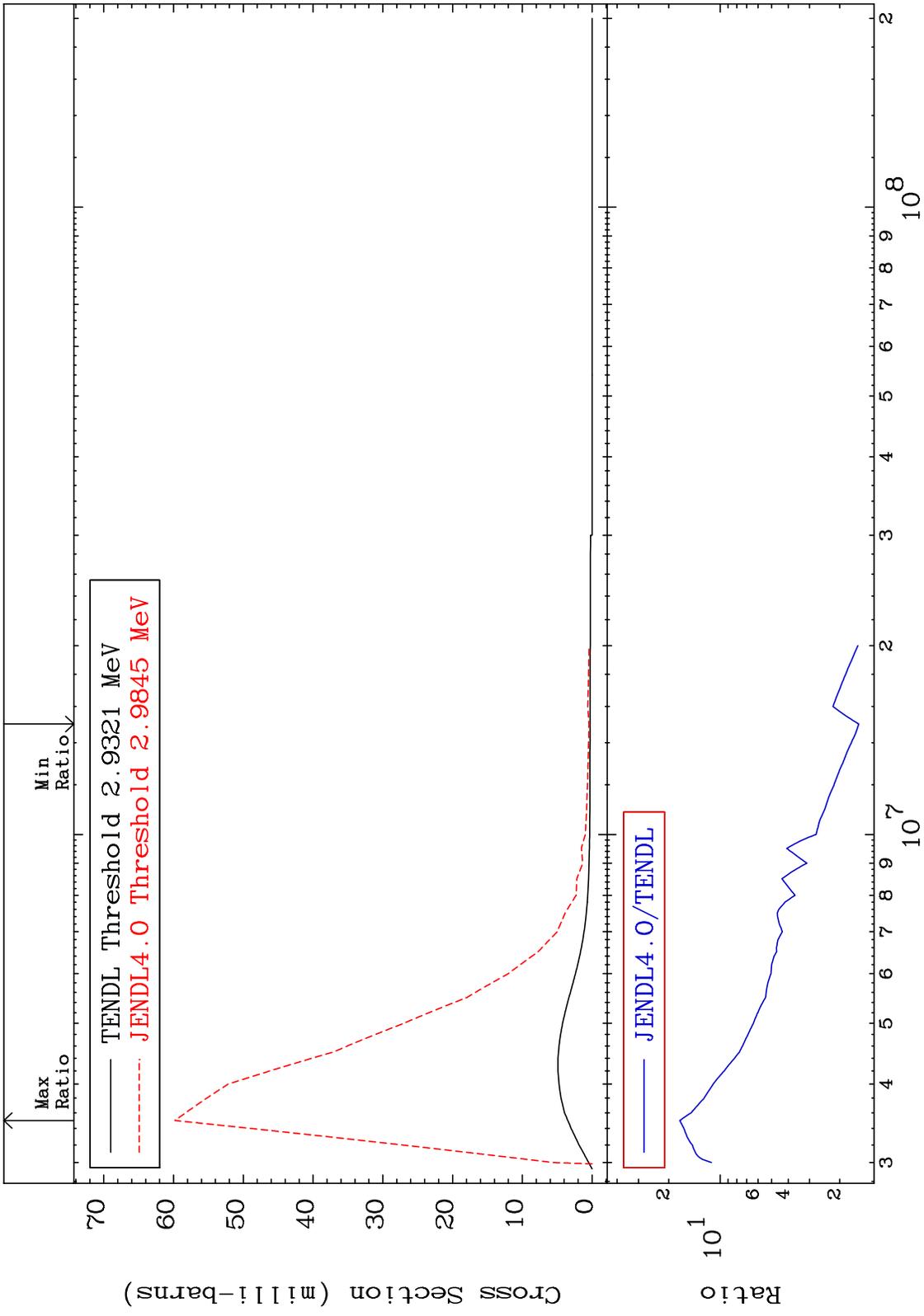
MAT 3443 MT= 68 (n,n') Level Cross Section 34-Se-80
 -38.84 To 95.99 %



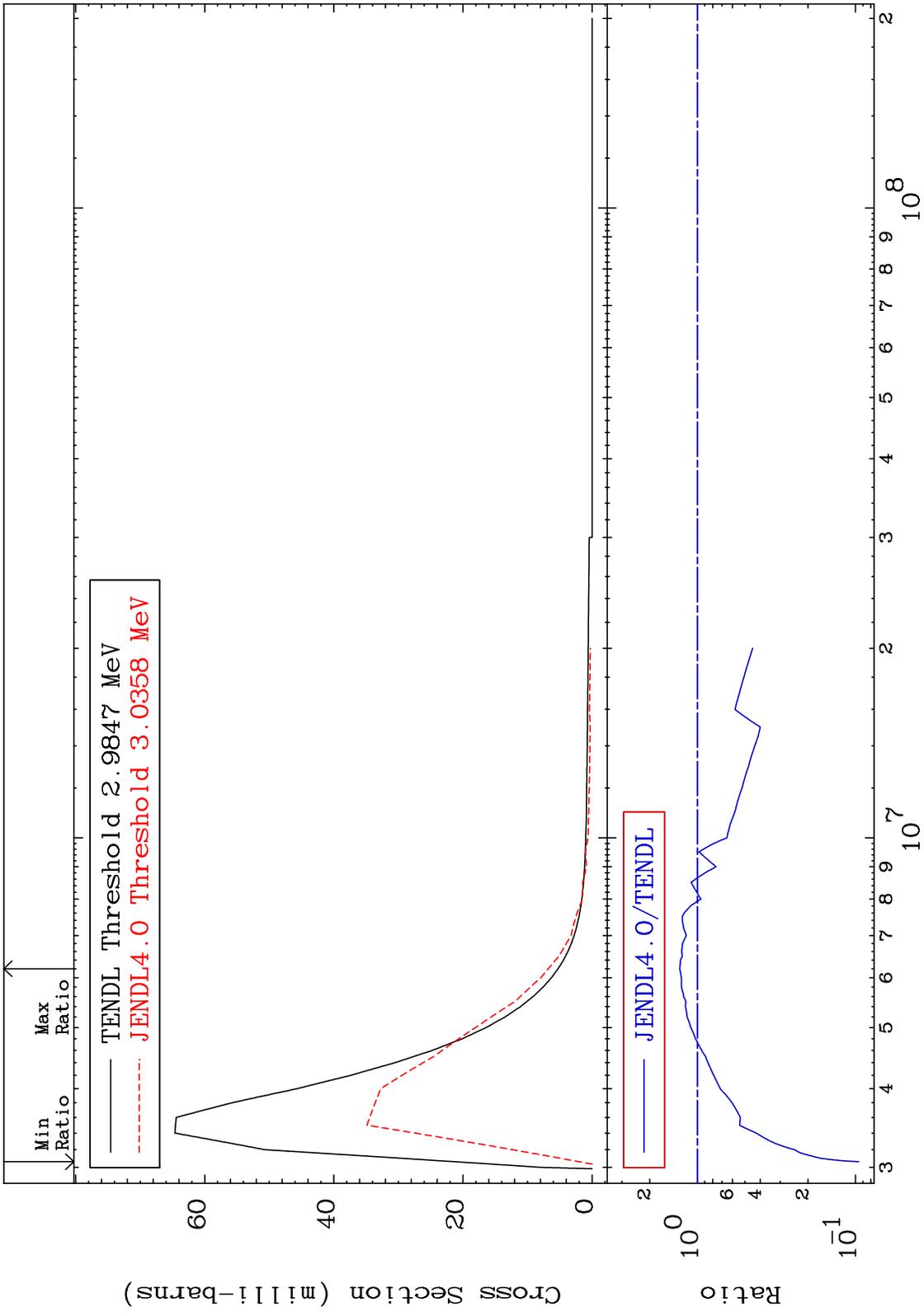
MAT 3443 MT= 69 (n,n') Level Cross Section -34.11 To 9999. % 34-Se-80



MAT 3443 MT= 70 (n,n') Level Cross Section 34-Se-80 54.71 To 1622. %



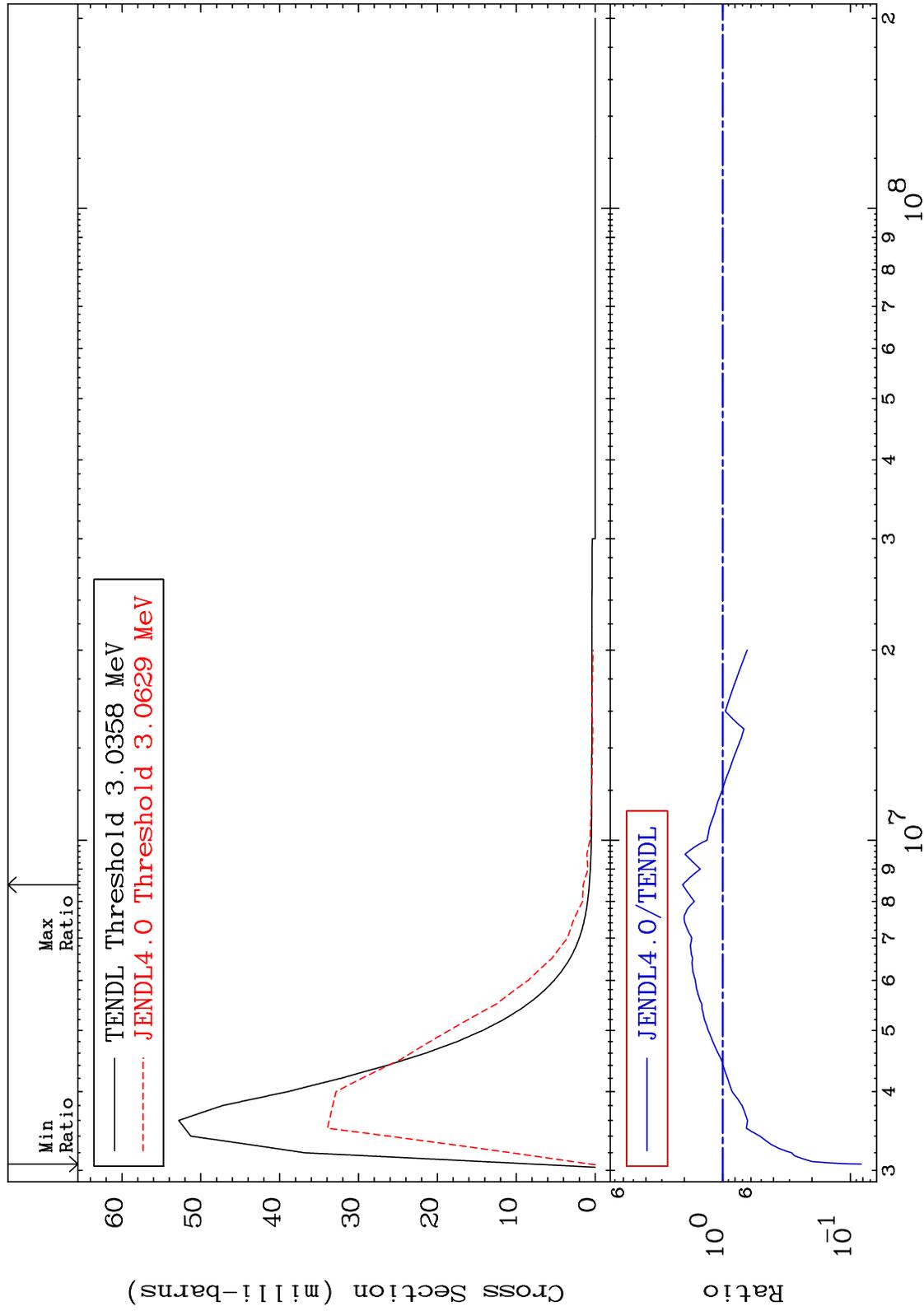
MAT 3443 MT= 71 (n,n') Level Cross Section 34-Se-80
 -90.46 To 29.16 %



MAT 3443

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

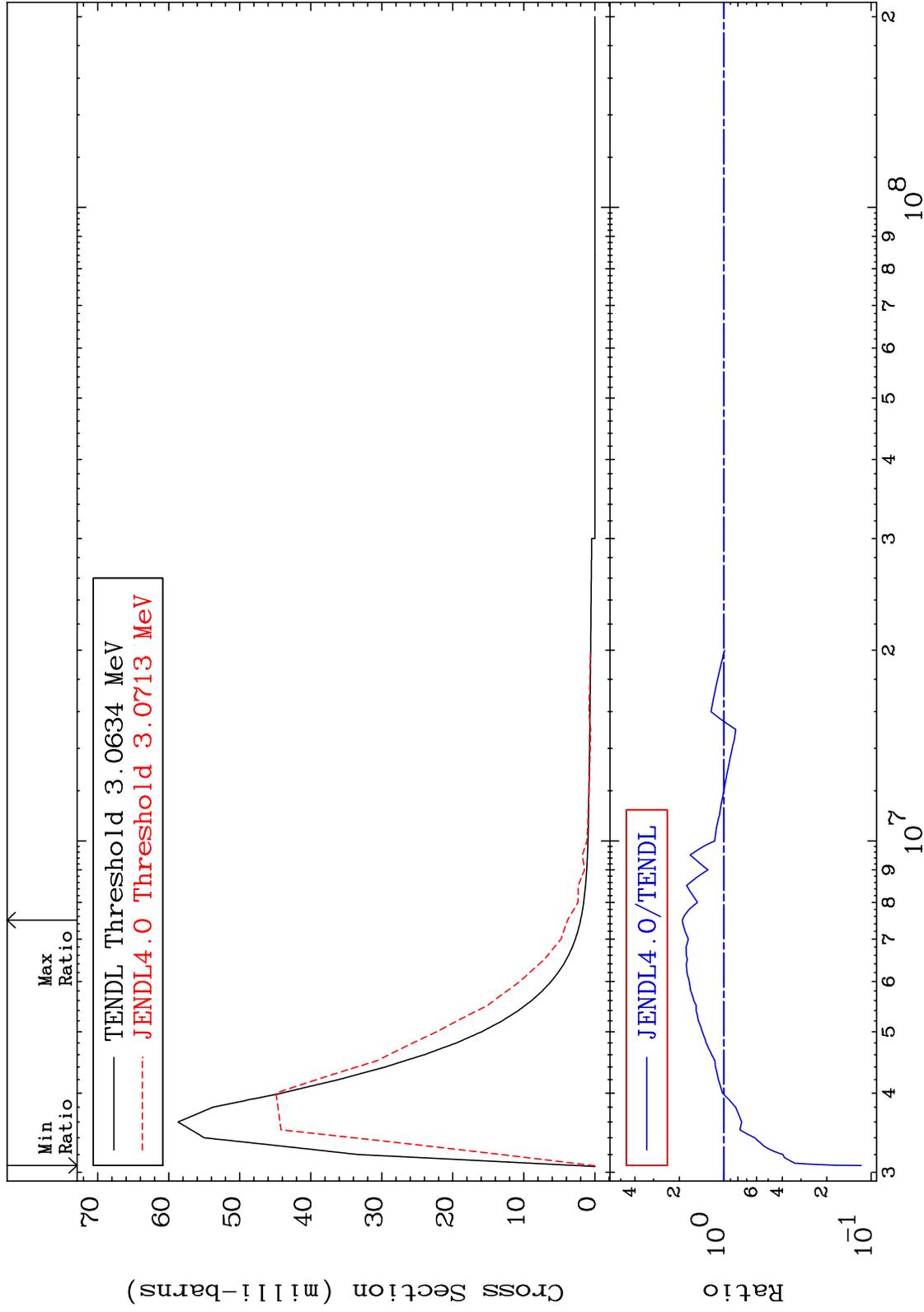
34-Se-80
-91.79 To 105.9 %



MAT 3443

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

34-Se-80
-88.34 To 90.65 %

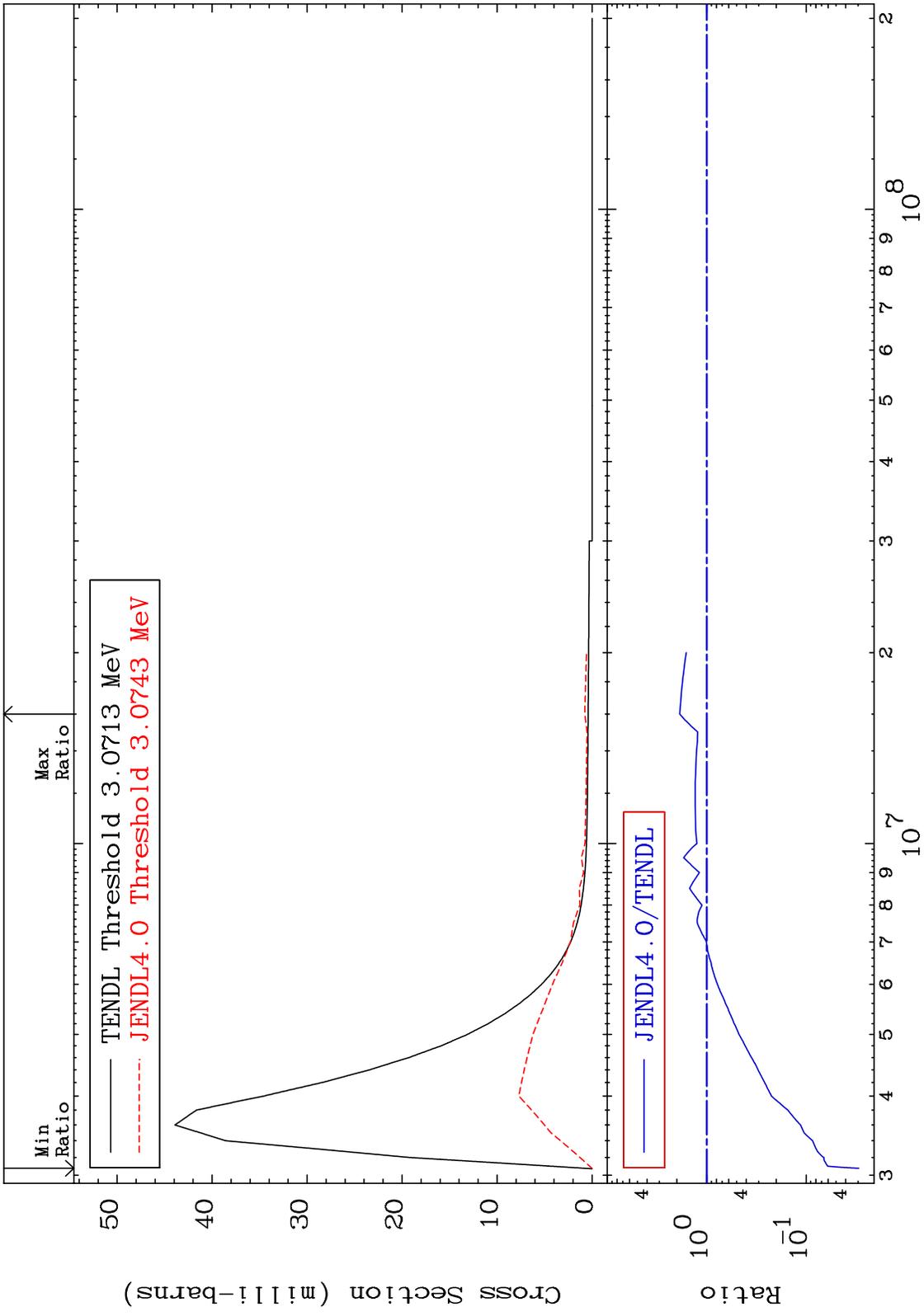


30

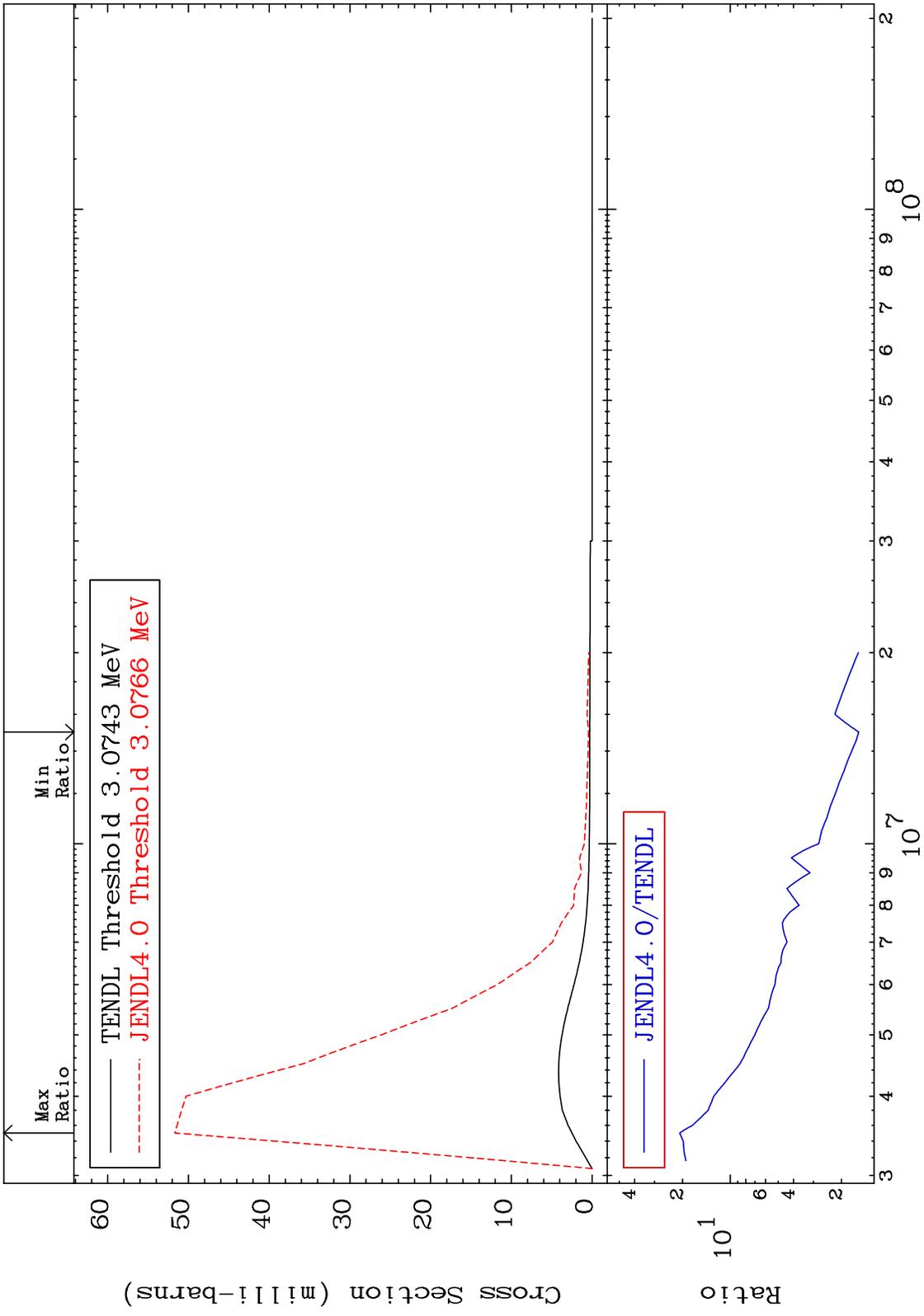
Incident Energy (eV)

34-Se-80

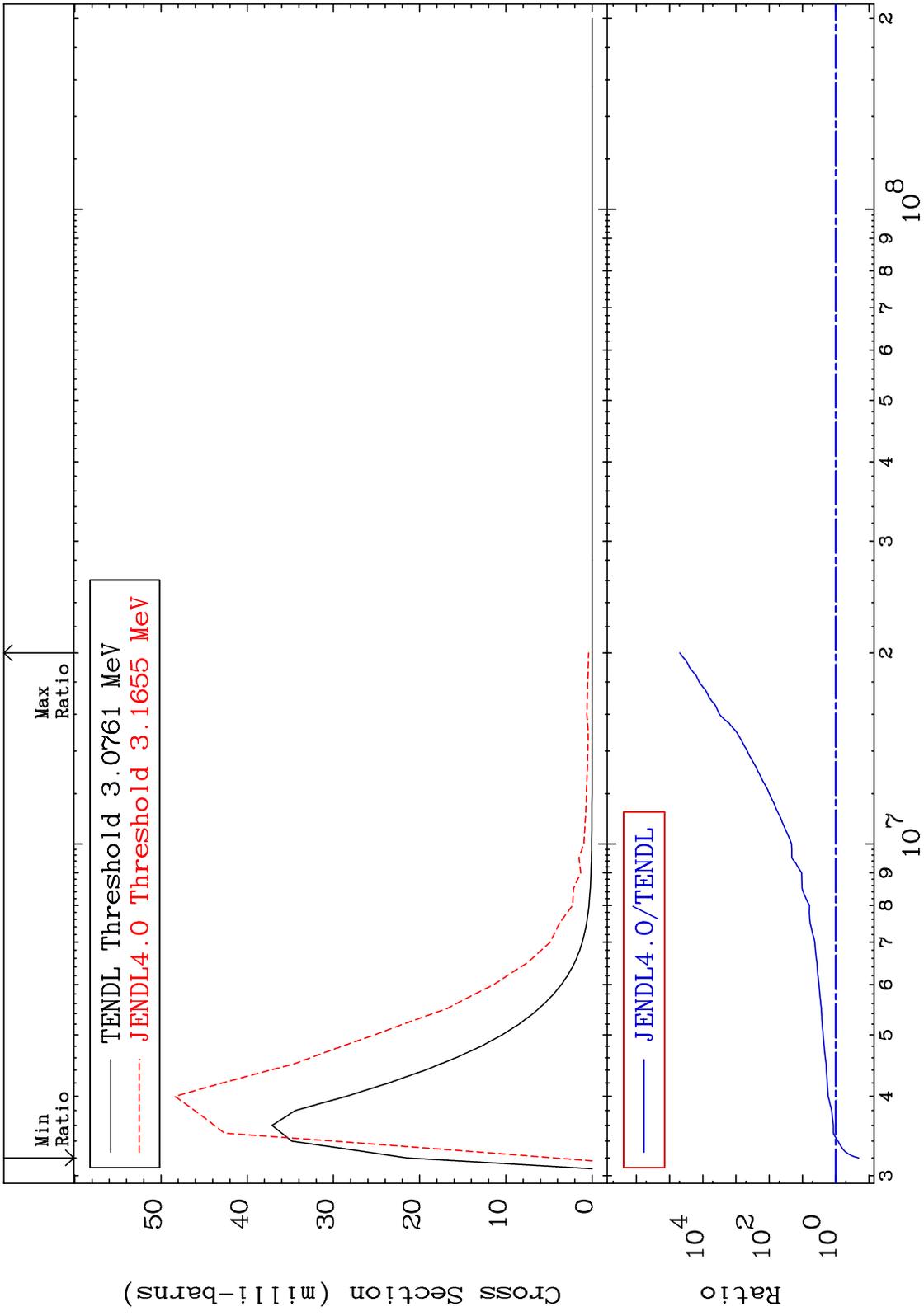
MAT 3443 MT= 74 (n,n') Level Cross Section 34-Se-80
 -97.05 To 87.08 %



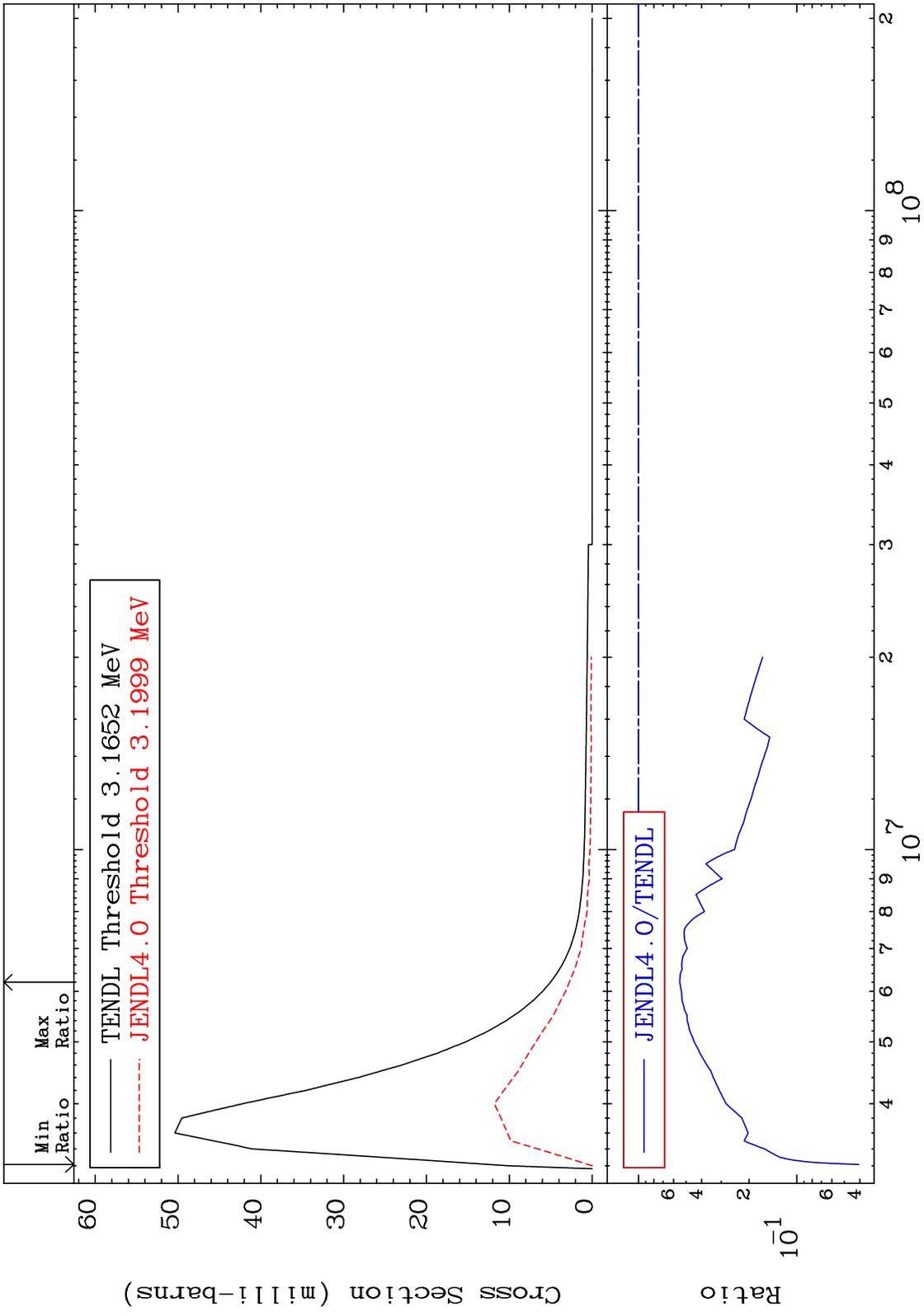
MAT 3443 MT= 75 (n,n') Level Cross Section 34-Se-80 55.54 To 1980. %



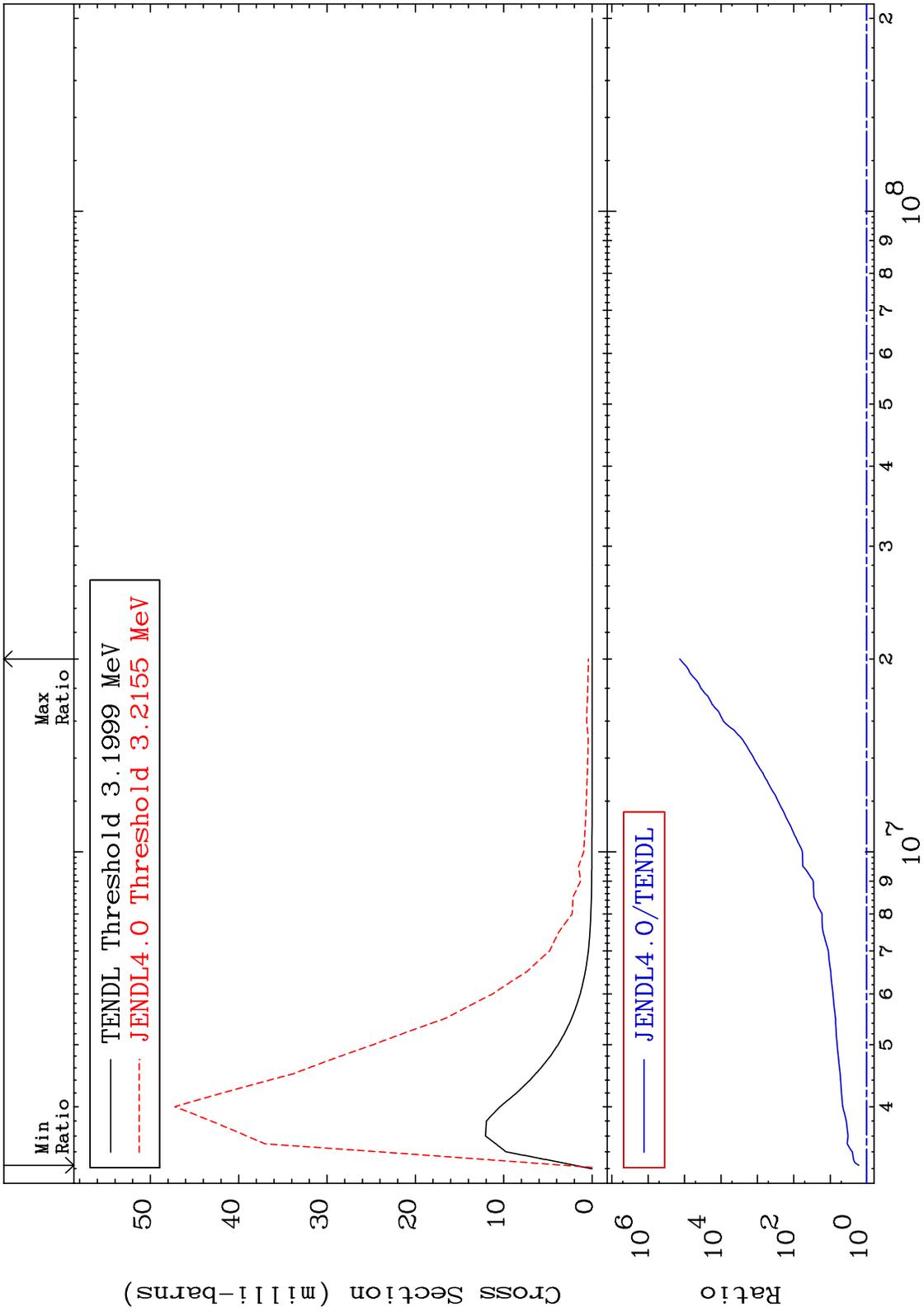
MAT 3443 MT= 76 (n,n') Level Cross Section 34-Se-80
 -79.63 To 9999. %



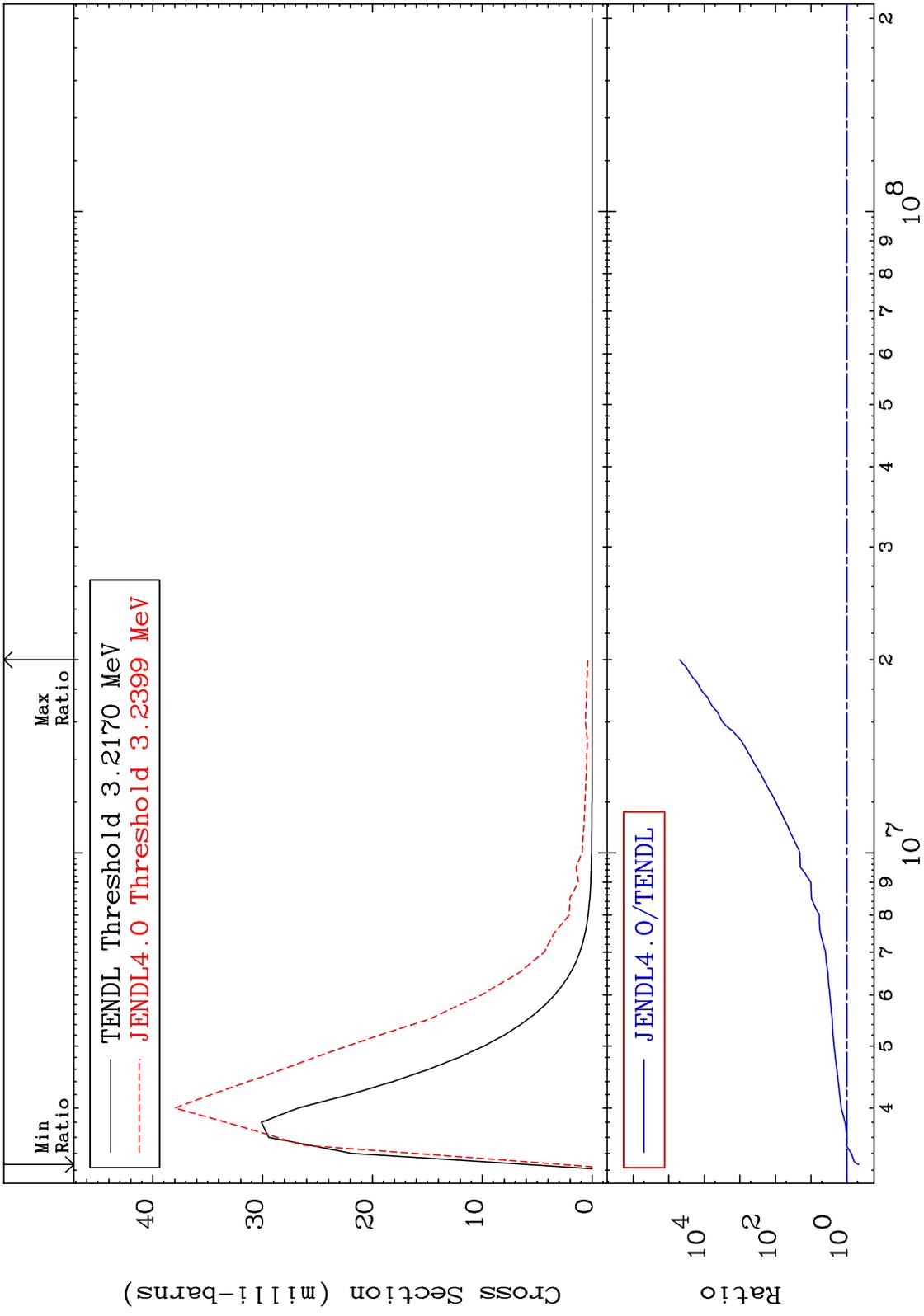
MAT 3443 MT= 77 (n,n') Level Cross Section 34-Se-80 -95.94 To -45.14%



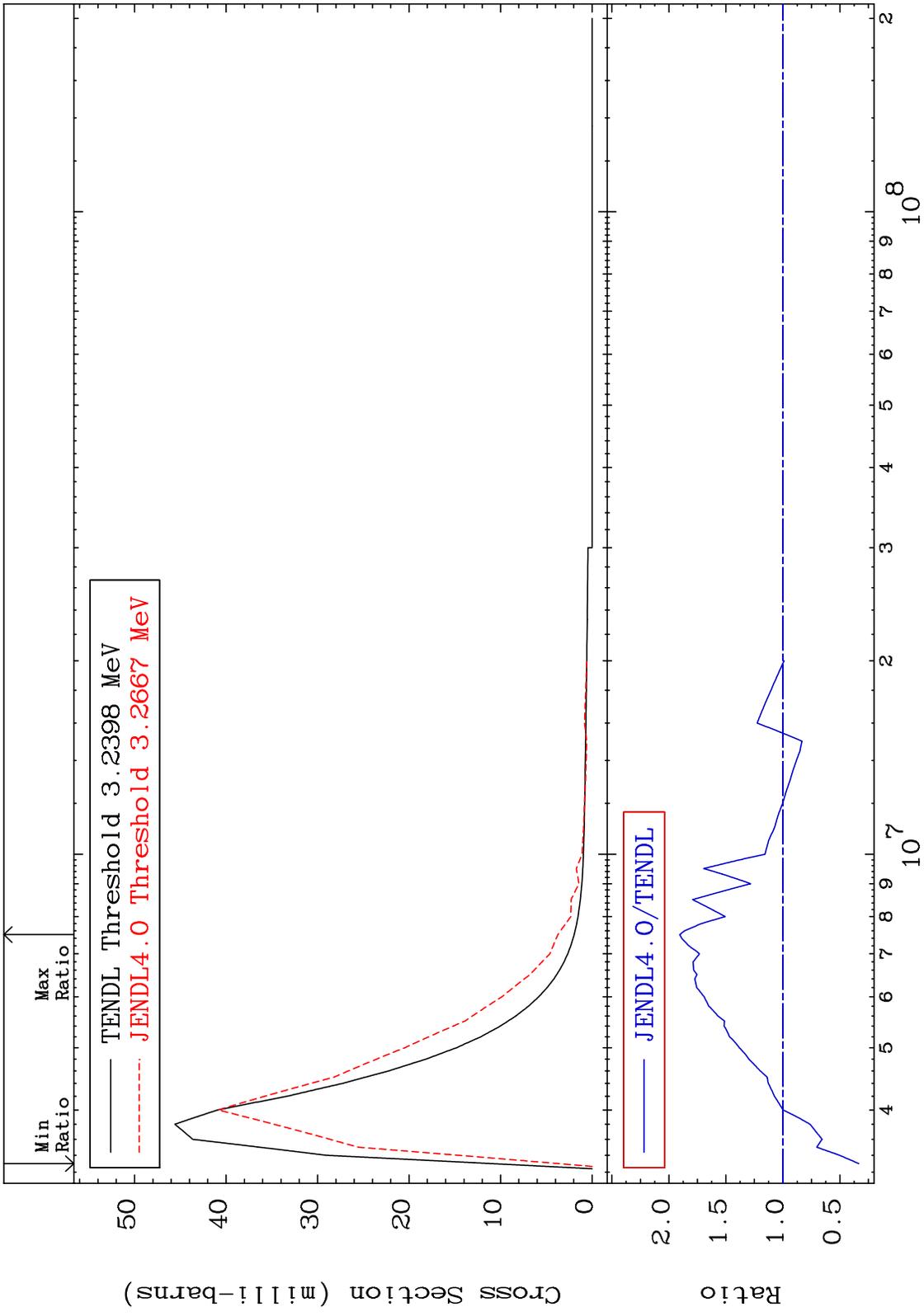
MAT 3443 MT= 78 (n,n') Level Cross Section 34-Se-80 63.71 To 9999. %

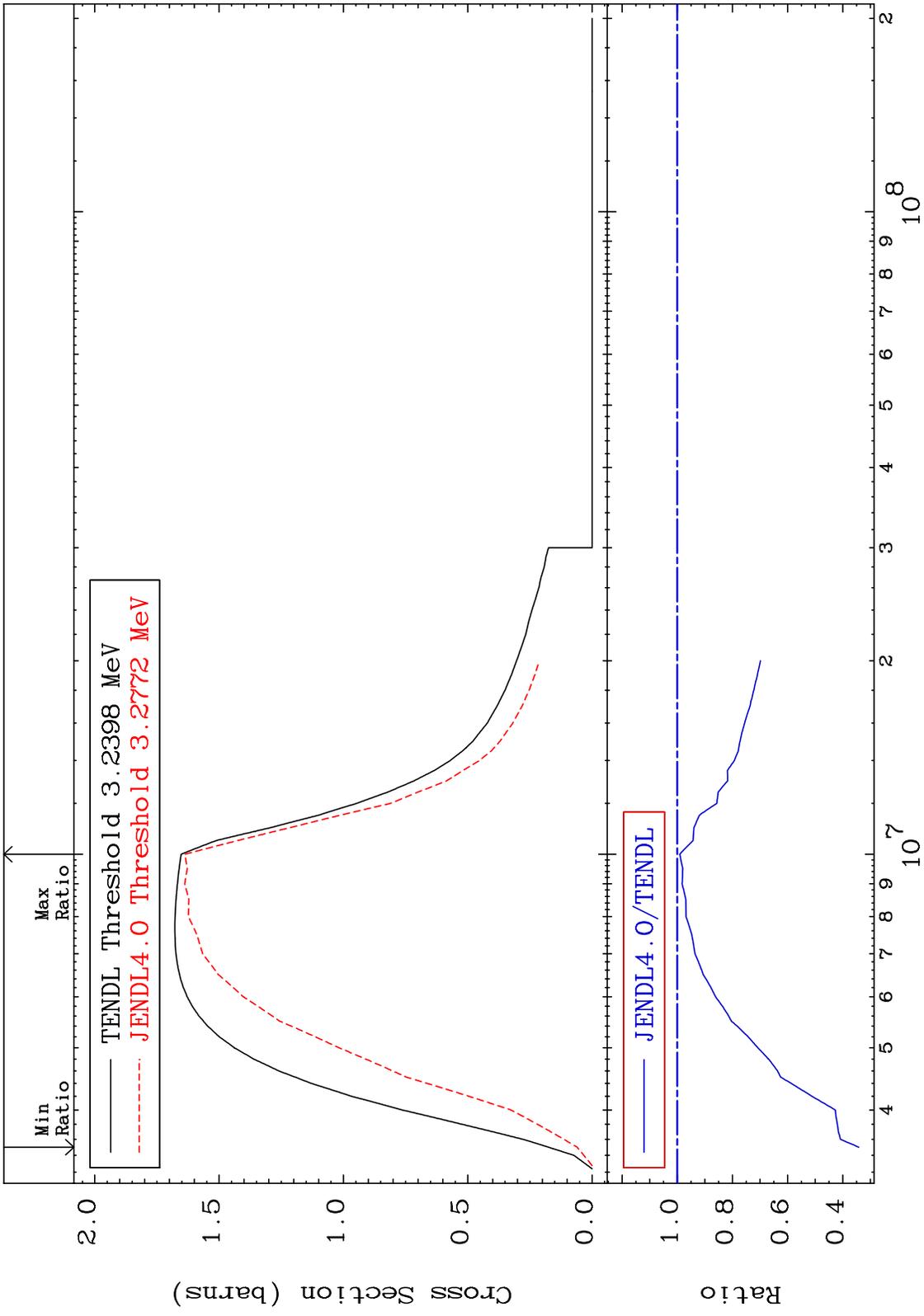


MAT 3443 MT= 79 (n,n') Level Cross Section 34-Se-80 -54.42 To 9999. %



MAT 3443 MT= 80 (n,n') Level Cross Section 34-Se-80 -66.58 To 90.47 %





MAT 3443

(n, γ)

34-Se-80

-99.88 To 9999. %

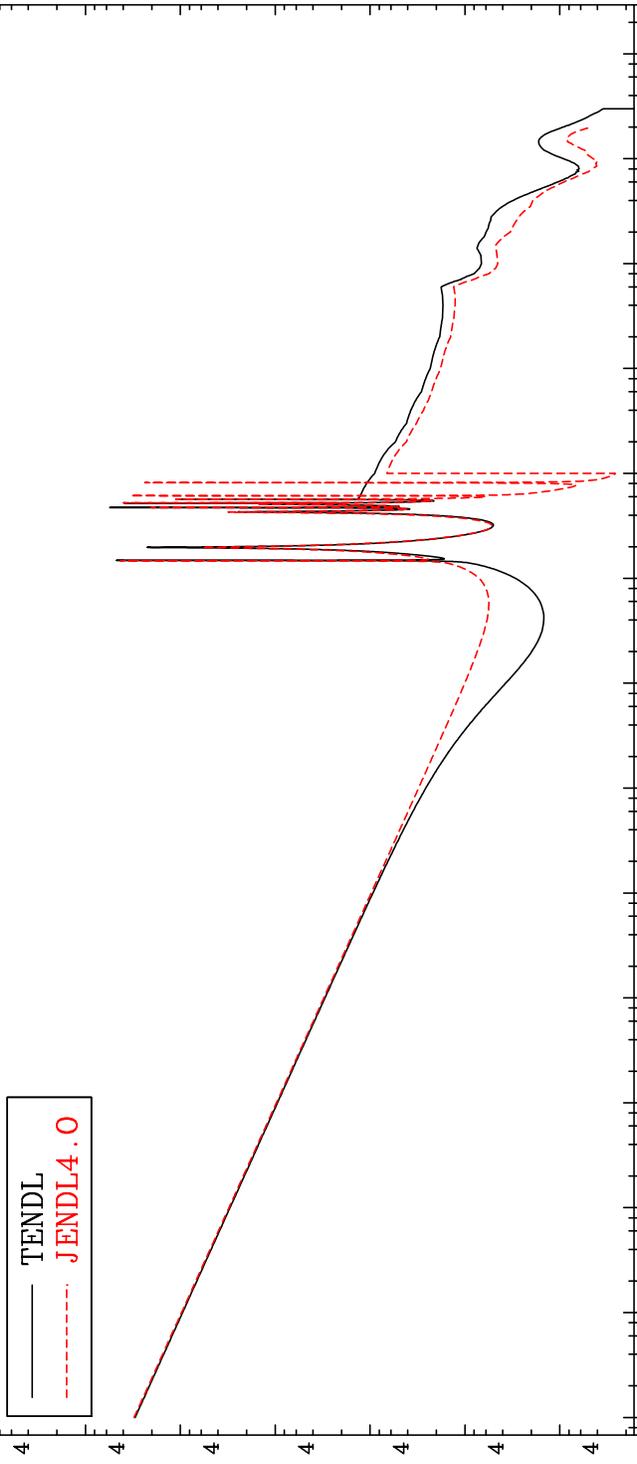
Cross Section

Max Ratio

Min Ratio

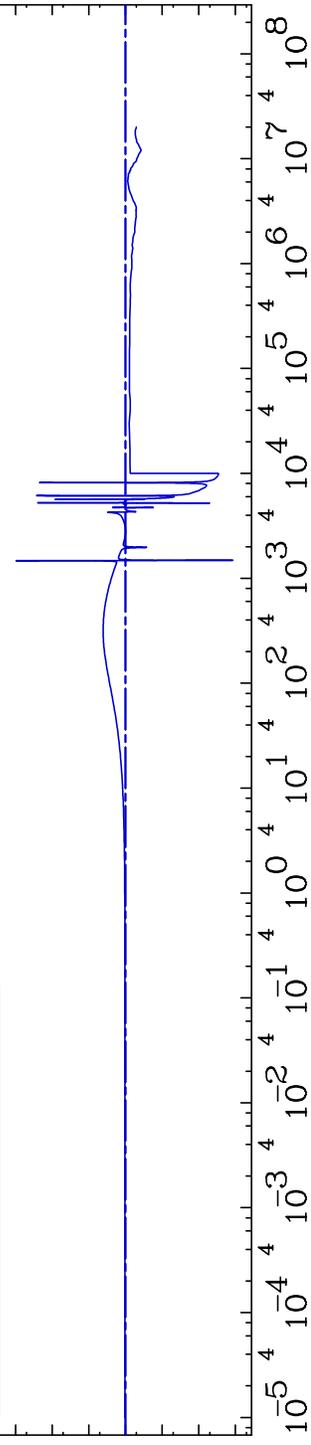
— TENDL
- - - JENDL4.0

Cross Section (barns)

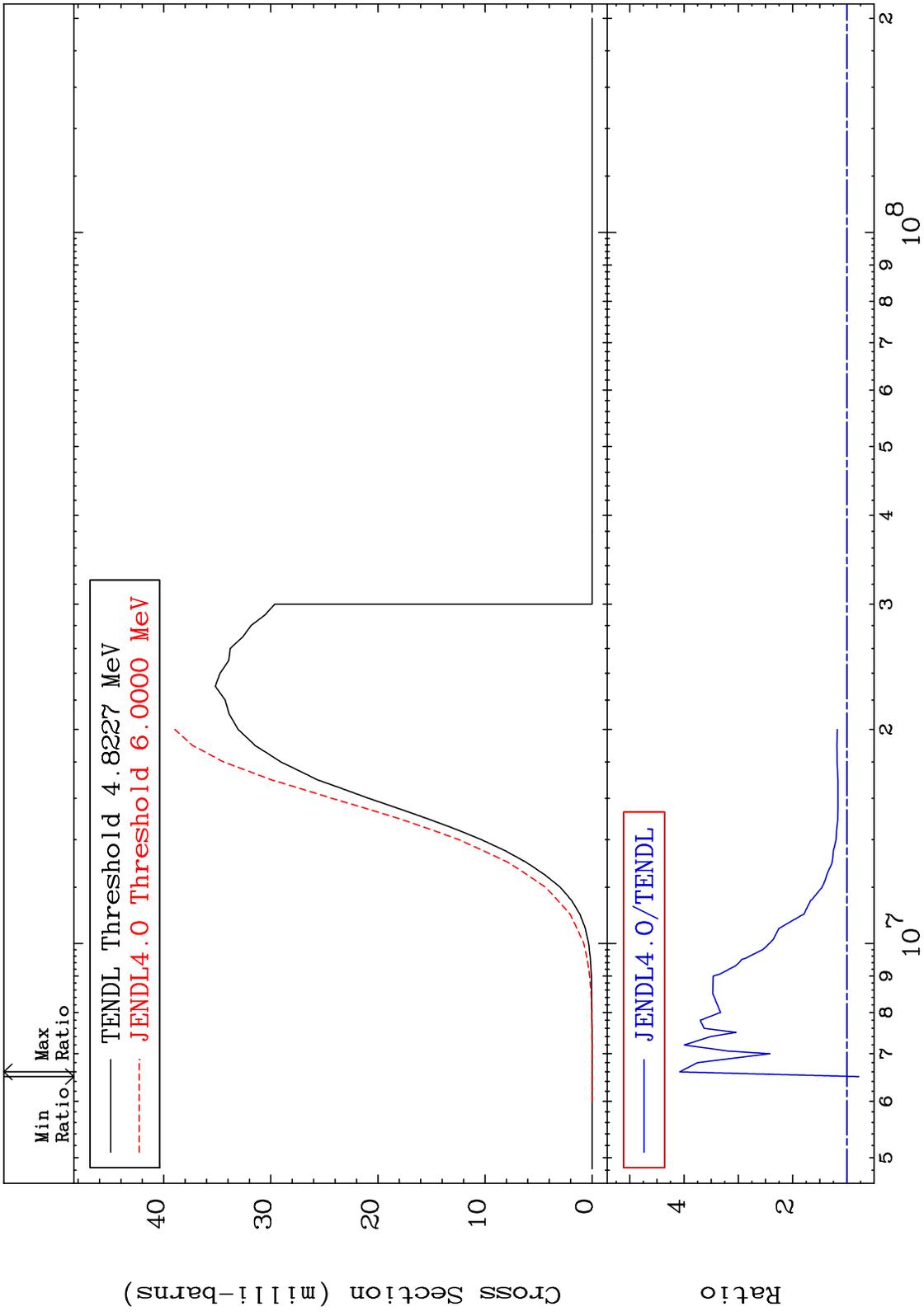


— JENDL4.0/TENDL

Ratio

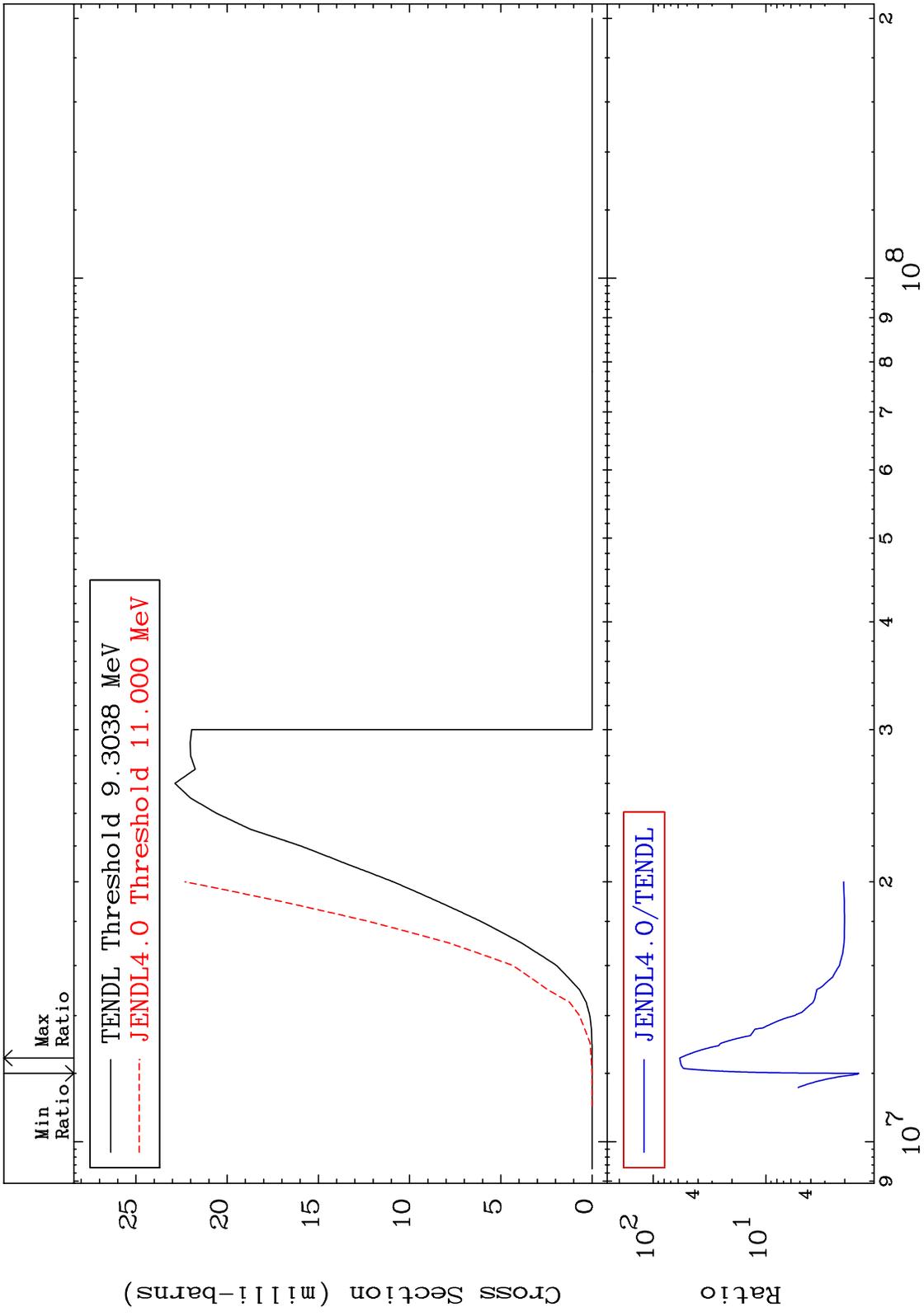


MAT 3443 (n,p) Cross Section ³⁴Se-80 -21.66 To 308.1 %



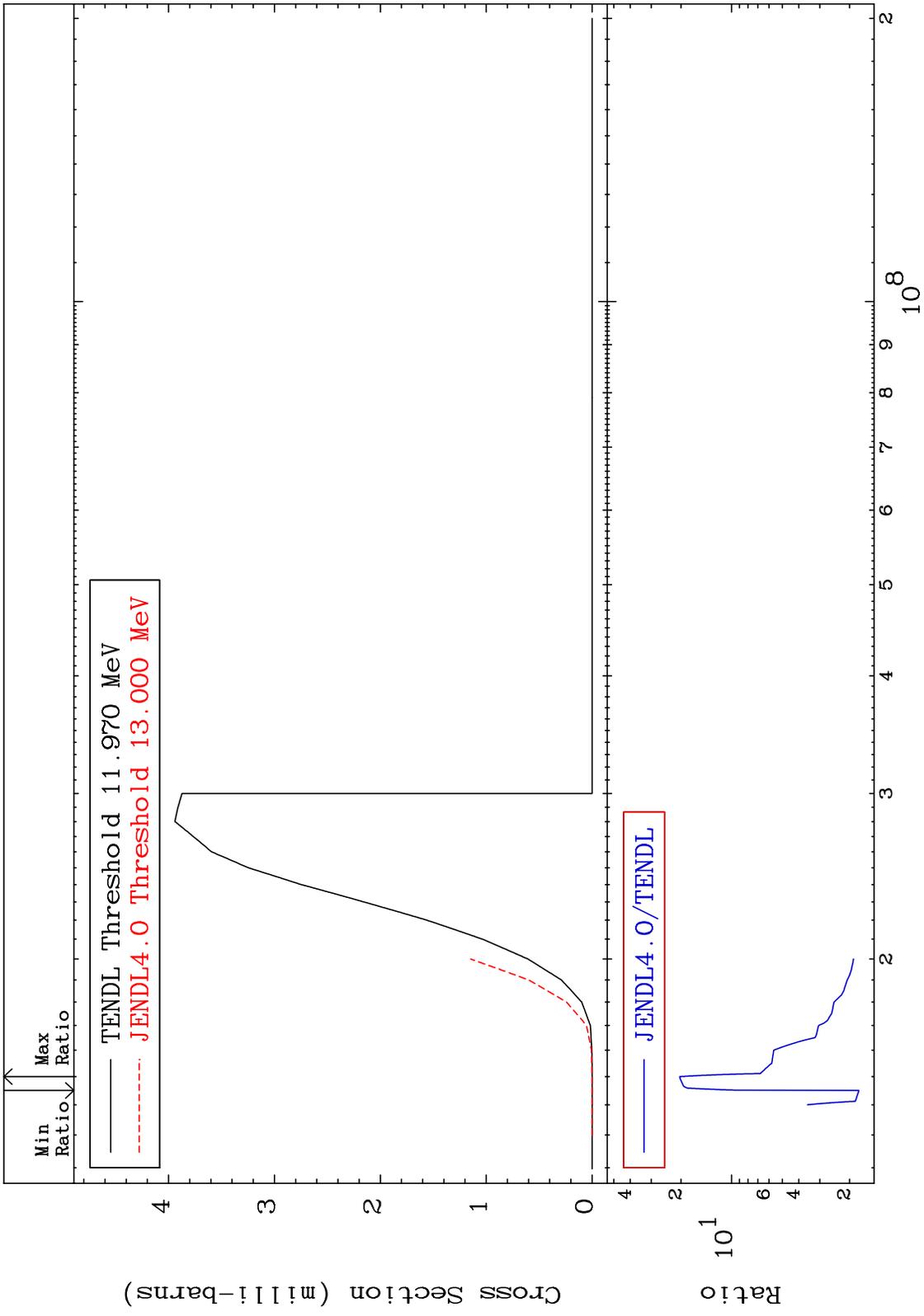
40 ³⁴Se-80

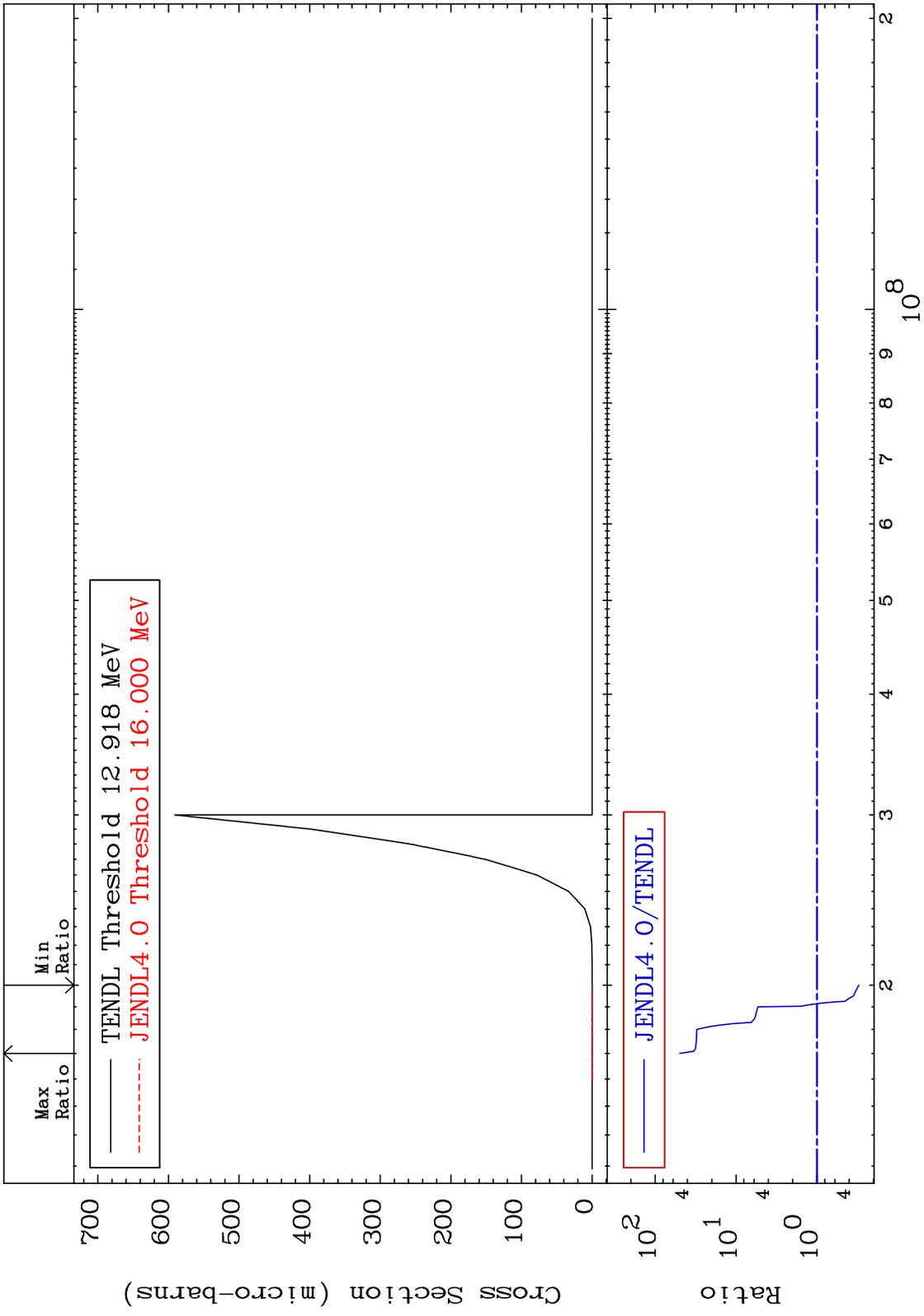
MAT 3443 (n,d) Cross Section 34-Se-80
 50.02 To 5709. %



41 34-Se-80 Incident Energy (eV)

MAT 3443 (n,t) Cross Section 34-Se-80 To 1931. %
76.13





MAT 3443

(n, α)

³⁴Se-80

-57.23 To 39.18 %

Cross Section

Max Ratio

Min Ratio

TENDL Threshold 911.55 keV
JENDL4.0 Threshold 6.5000 MeV

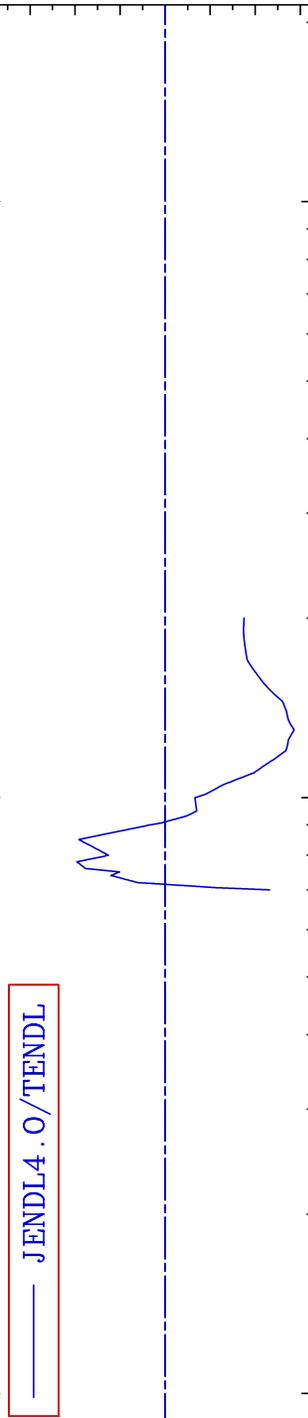
Cross Section (milli-barns)

10
8
6
4
2
0

Ratio

1.6
1.2
0.8
0.4

JENDL4.0/TENDL



44

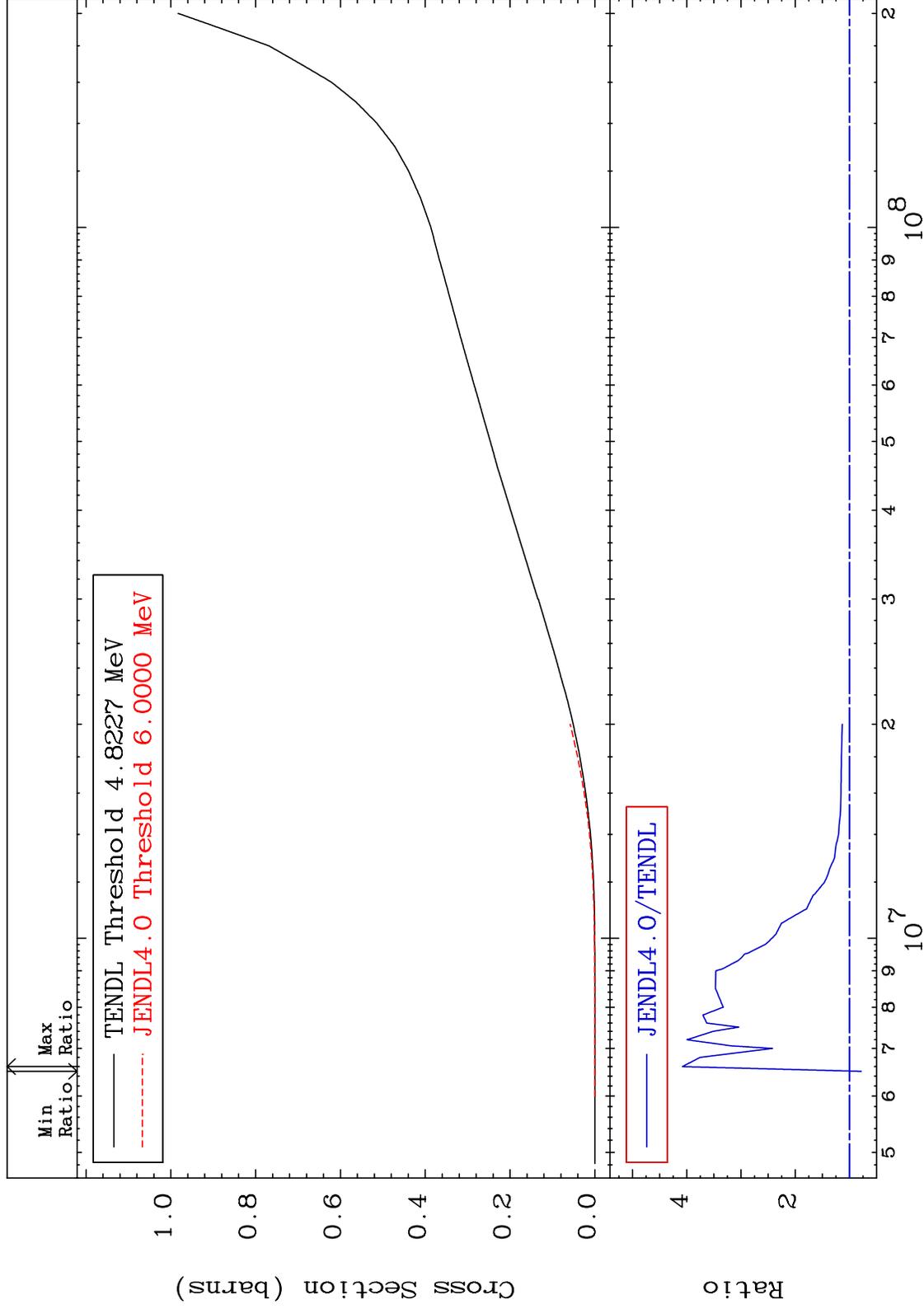
Incident Energy (eV)

³⁴Se-80

MAT 3443

Hydrogen Production
Cross Section

³⁴Se-80
-21.66 To 308.1 %

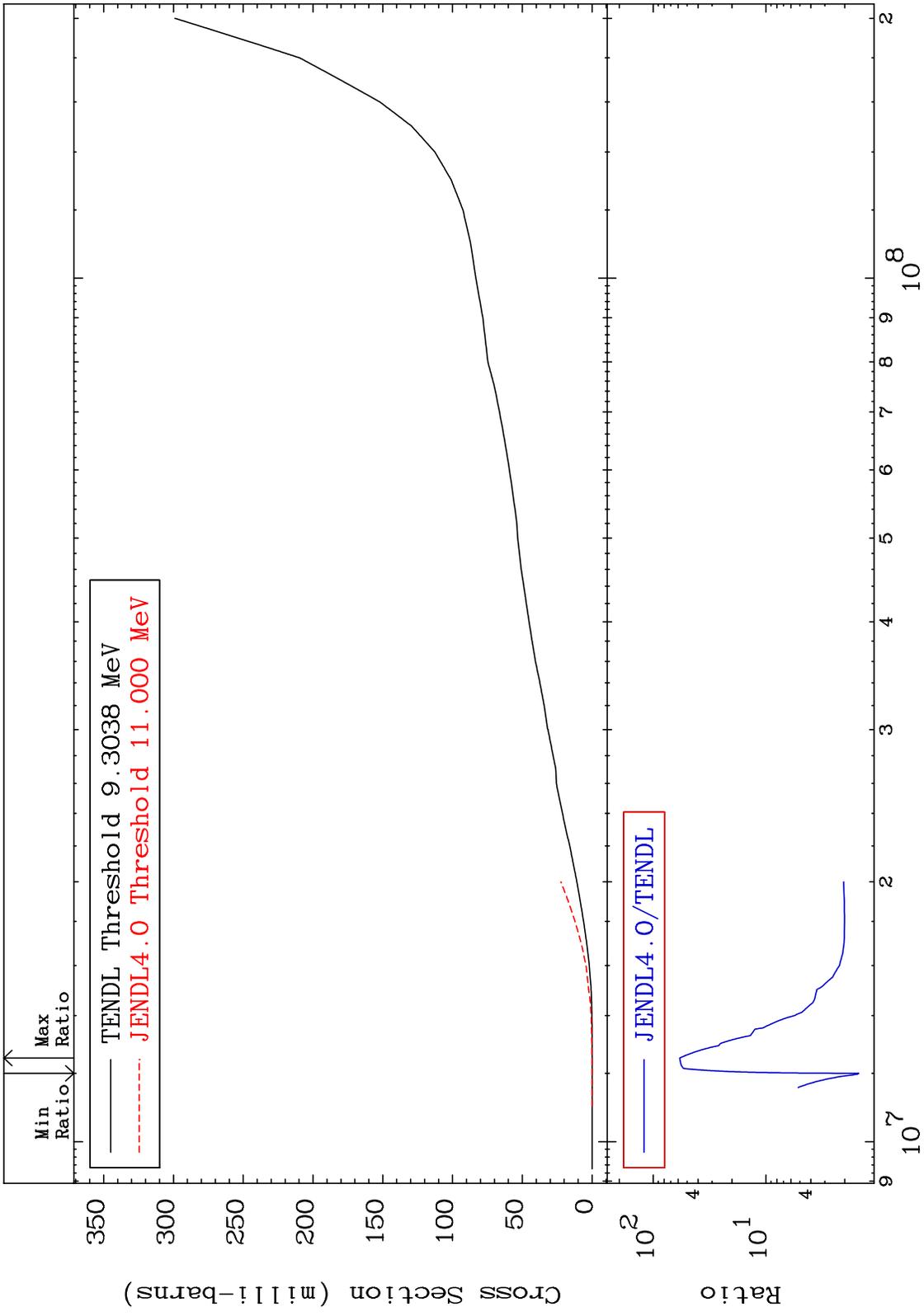


45

Incident Energy (eV)

³⁴Se-80

MAT 3443 Deuterium Production Cross Section 34-Se-80 To 5709. %

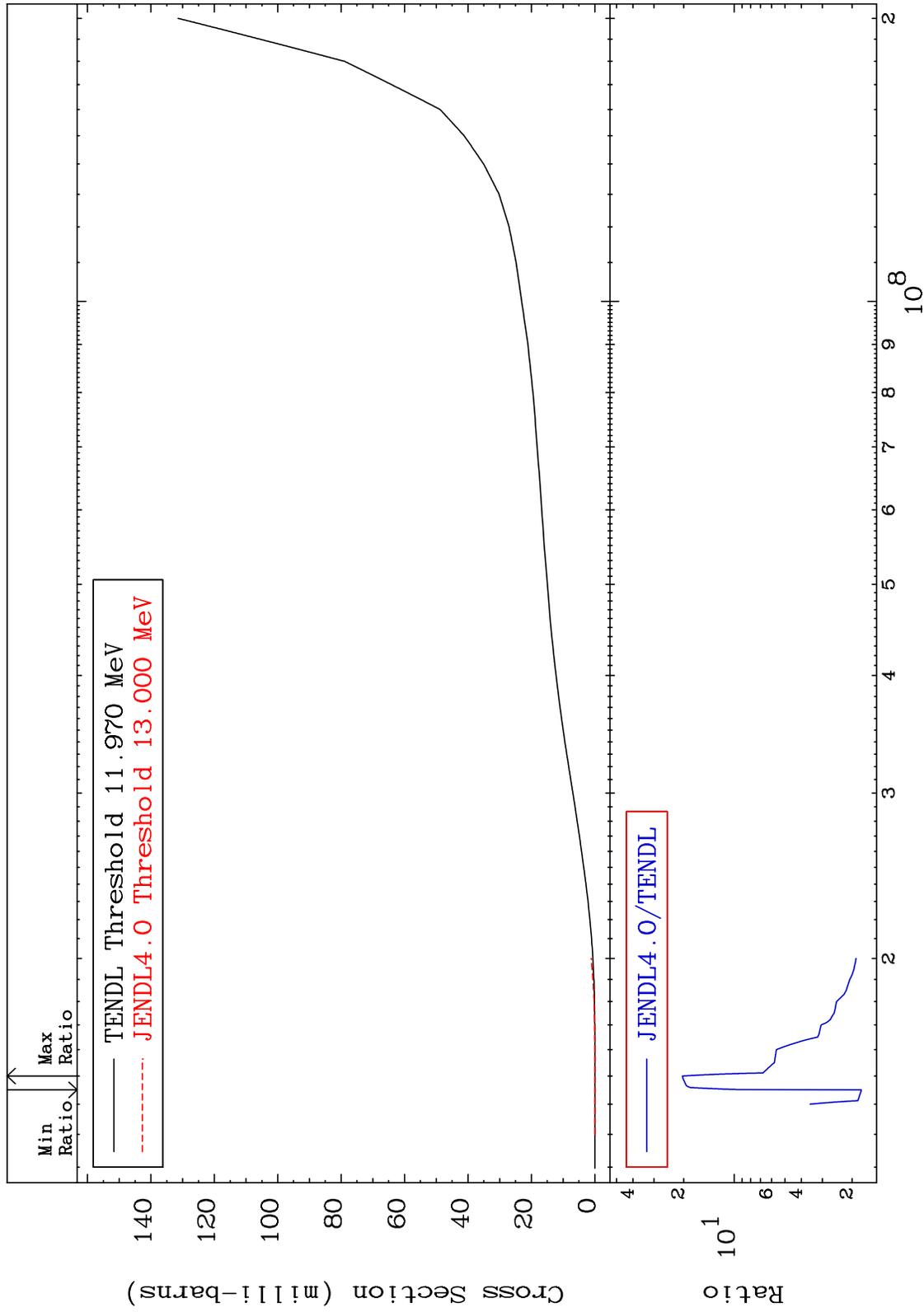


46 34-Se-80 Incident Energy (eV)

MAT 3443

Tritium Production
Cross Section

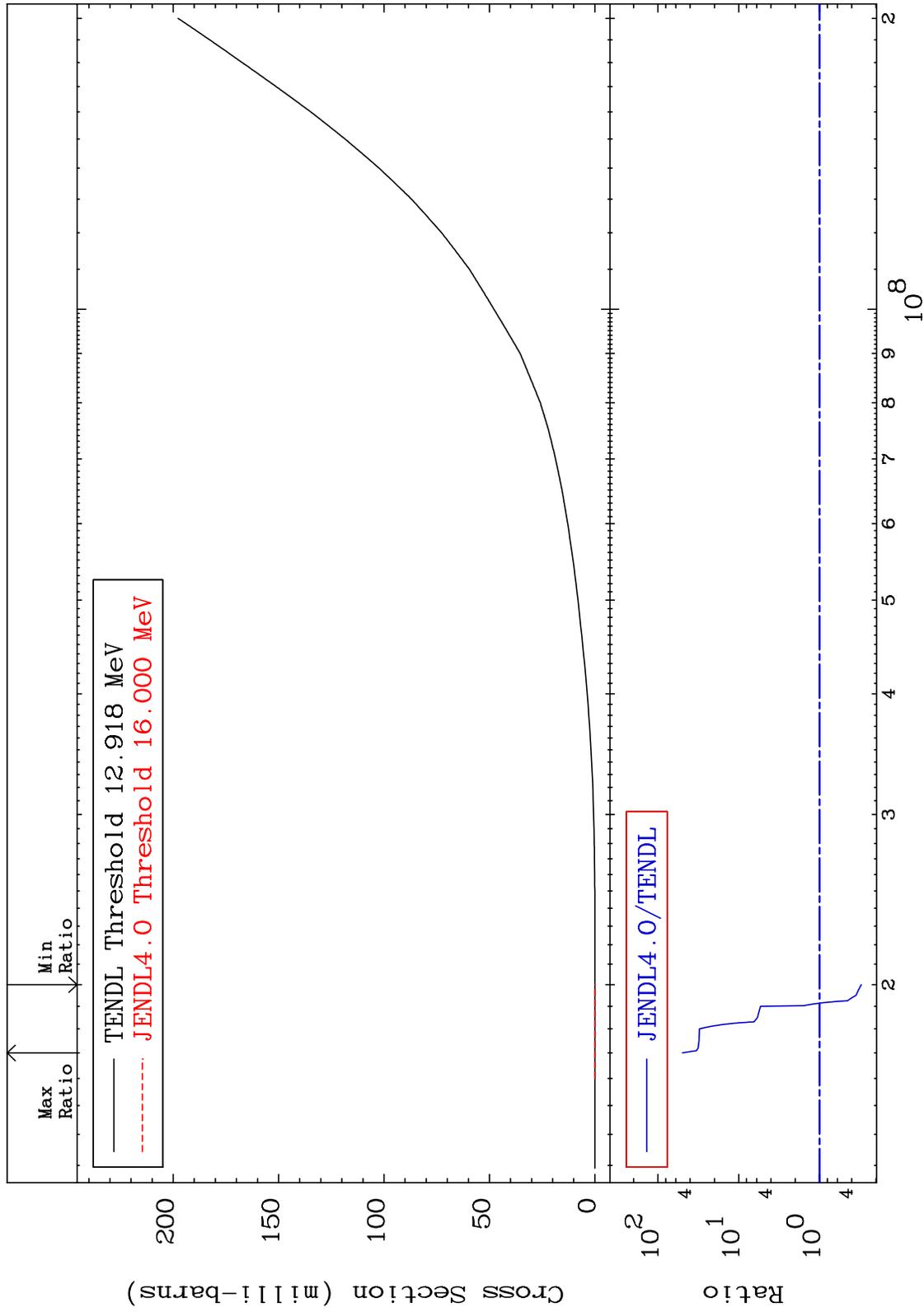
34-Se-80
76.13 To 1931. %



MAT 3443

He-3 Production
Cross Section

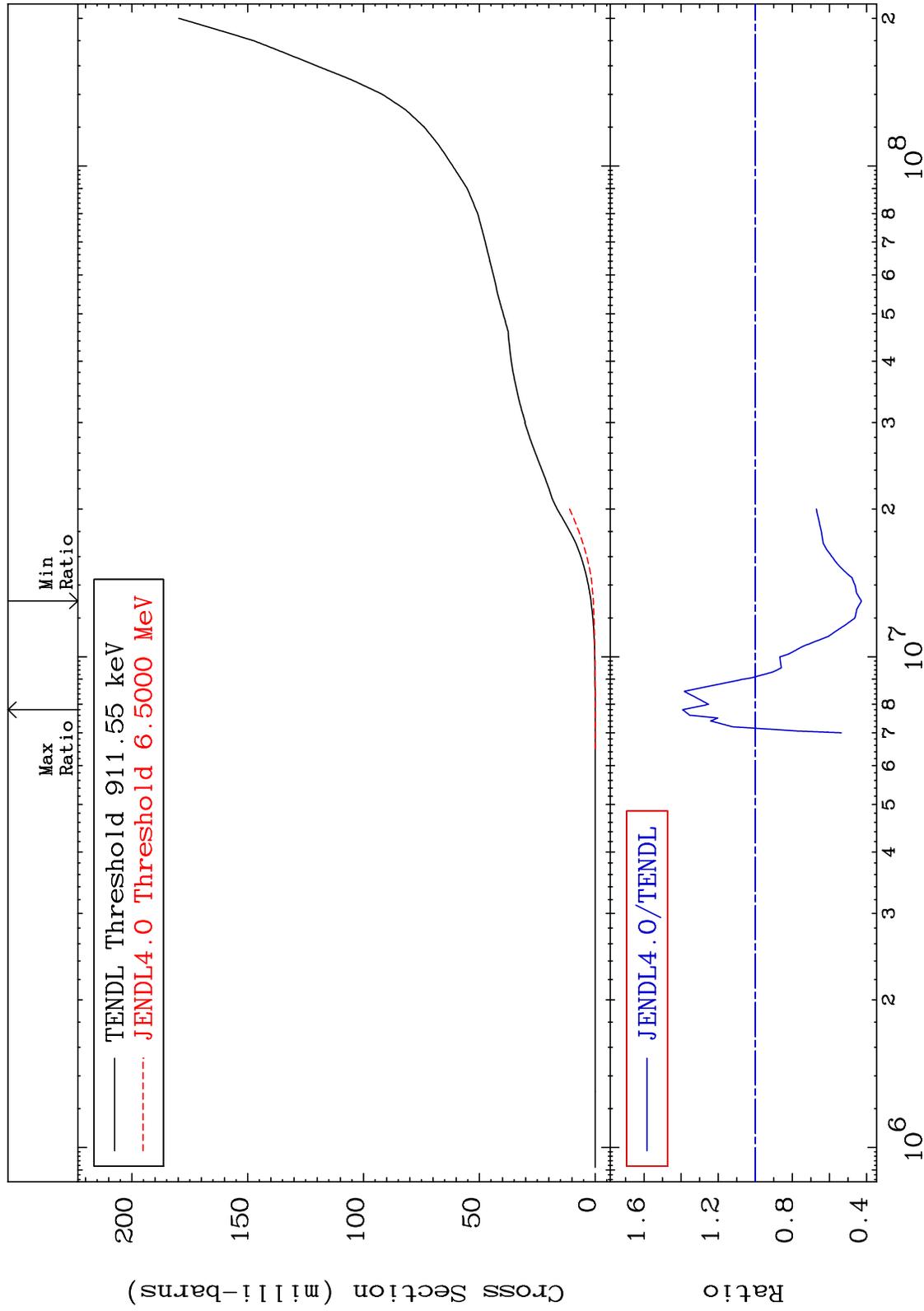
34-Se-80
-69.70 To 4878. %



MAT 3443

He-4 Production
Cross Section

34-Se-80
-57.24 To 39.18 %

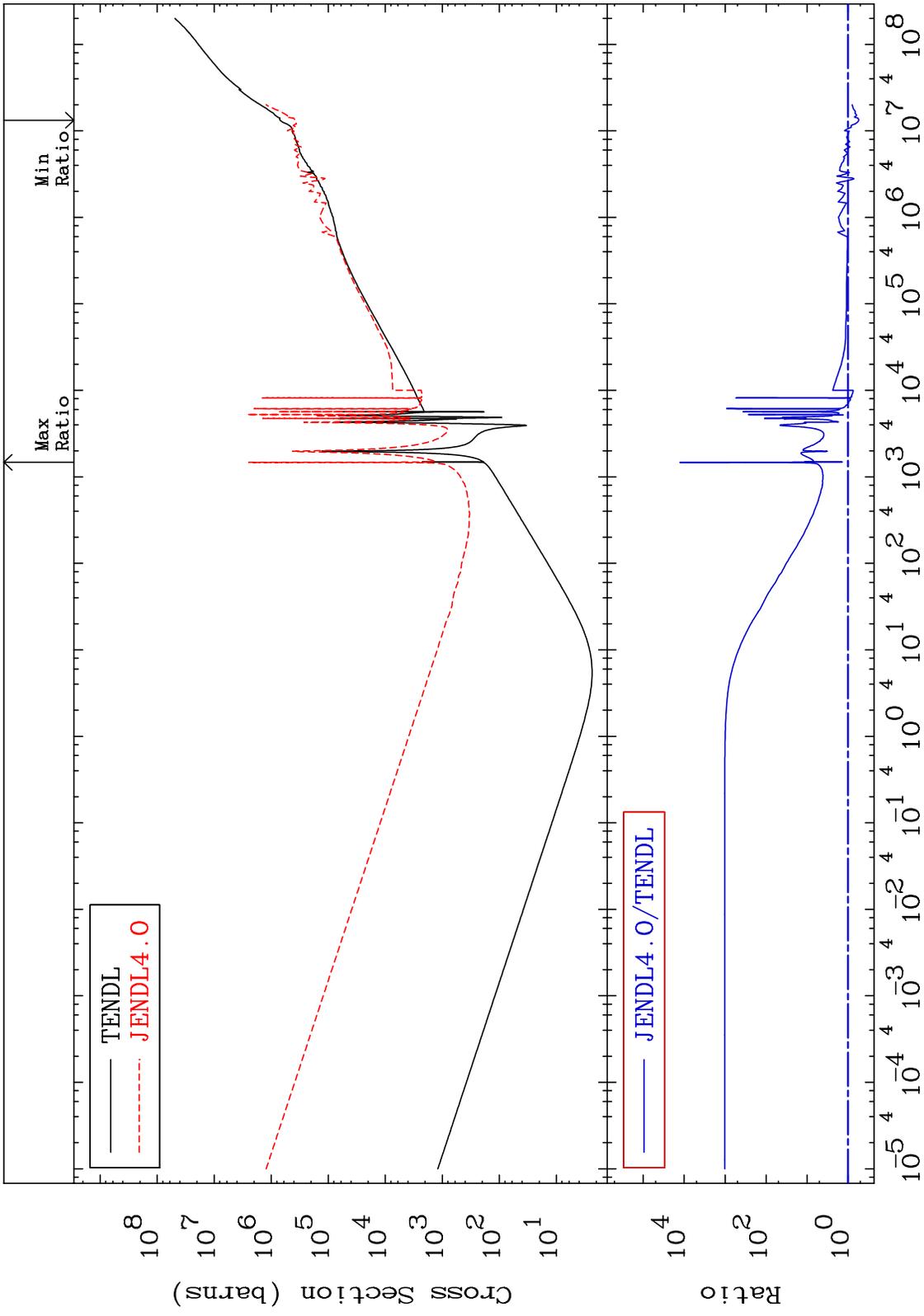


49

Incident Energy (eV)

34-Se-80

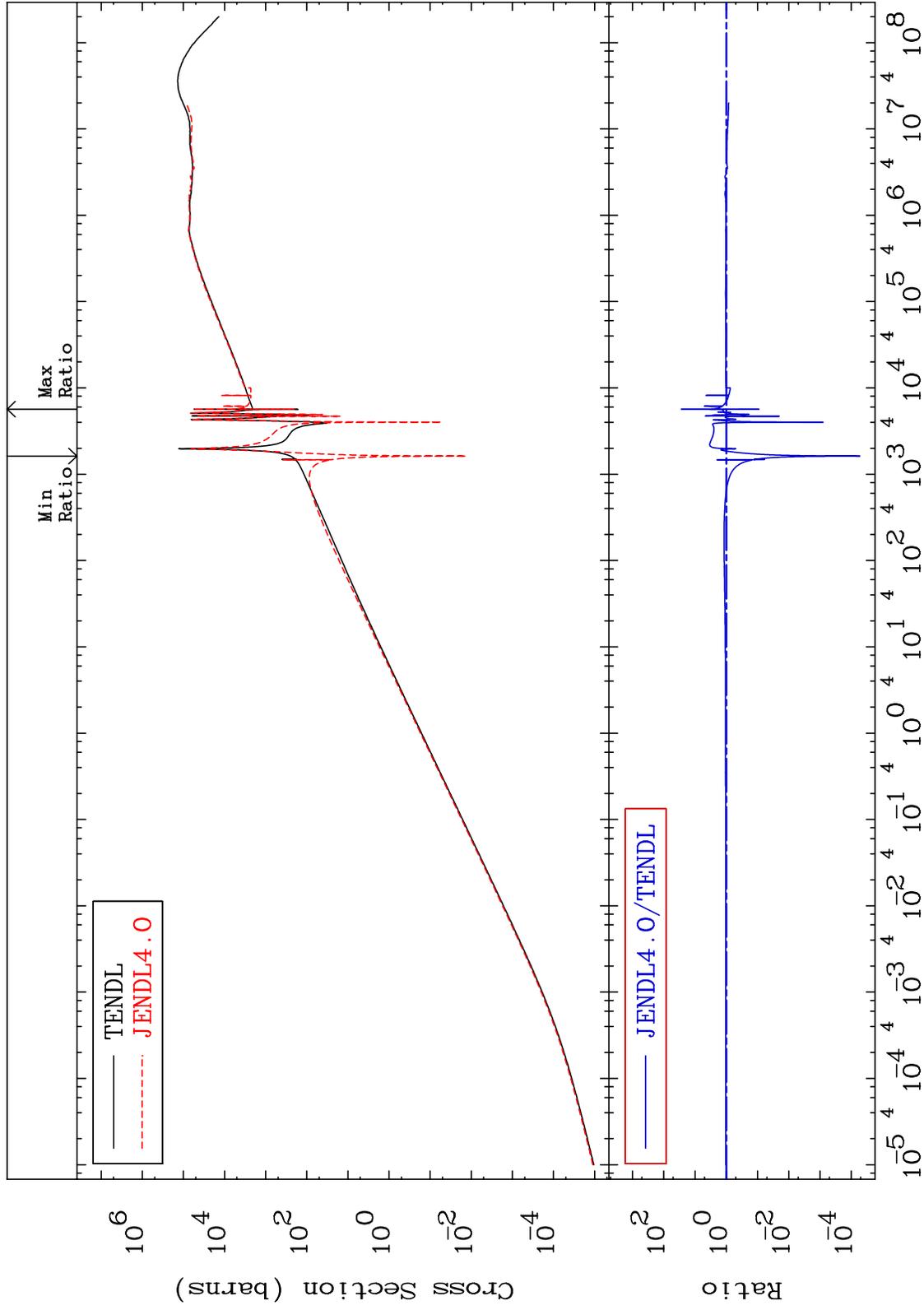
MAT 3443 Kerma total (eV-barns) Cross Section 34-Se-80
 -45.41 To 9999. %



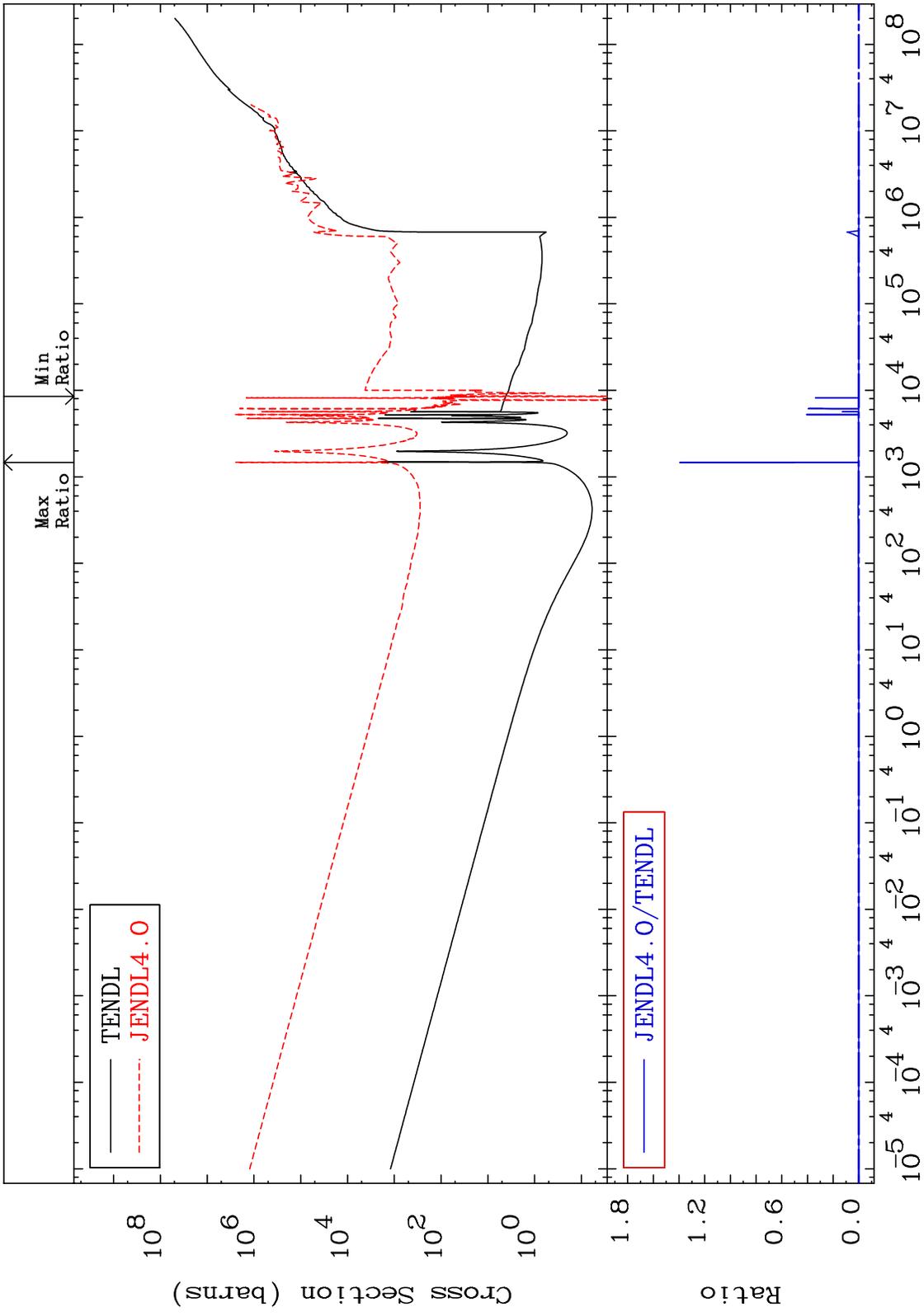
MAT 3443

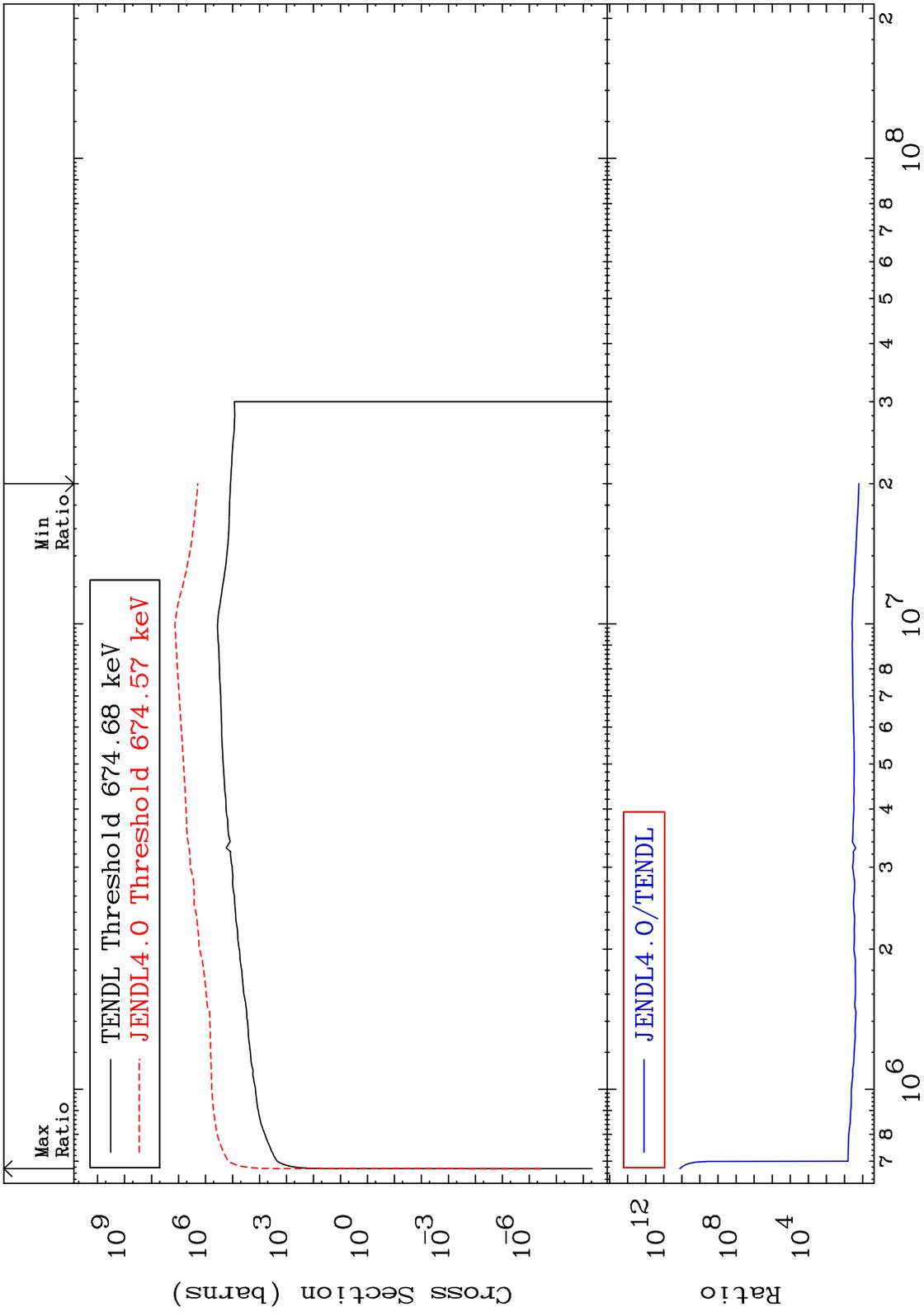
Kerma elastic
Cross Section

34-Se-80
-99.99 To 2664. %



MAT 3443 Kerma non-elastic (all but mt2) 34-Se-80
 -402.6 To 9999. %
 Cross Section

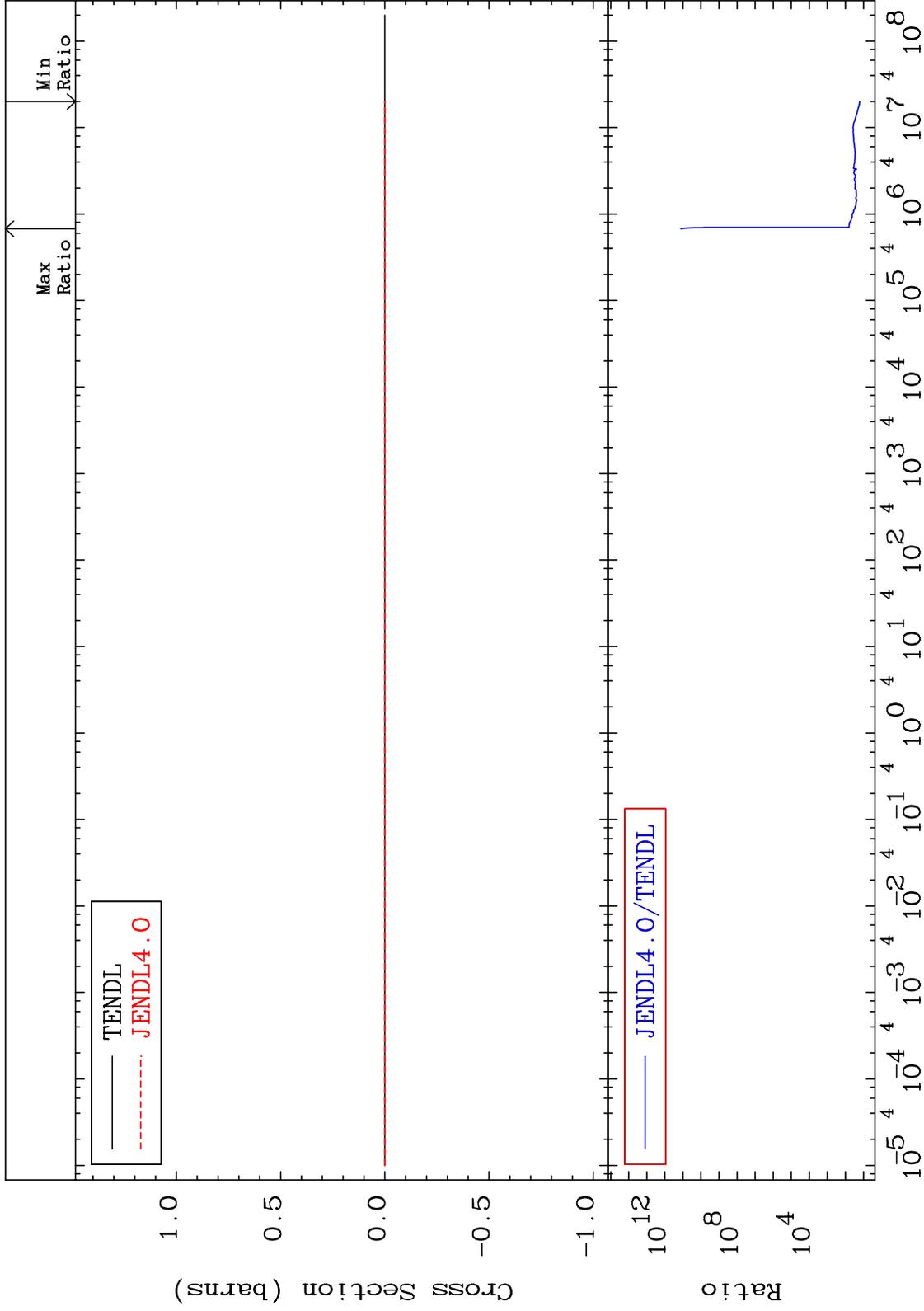




MAT 3443

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

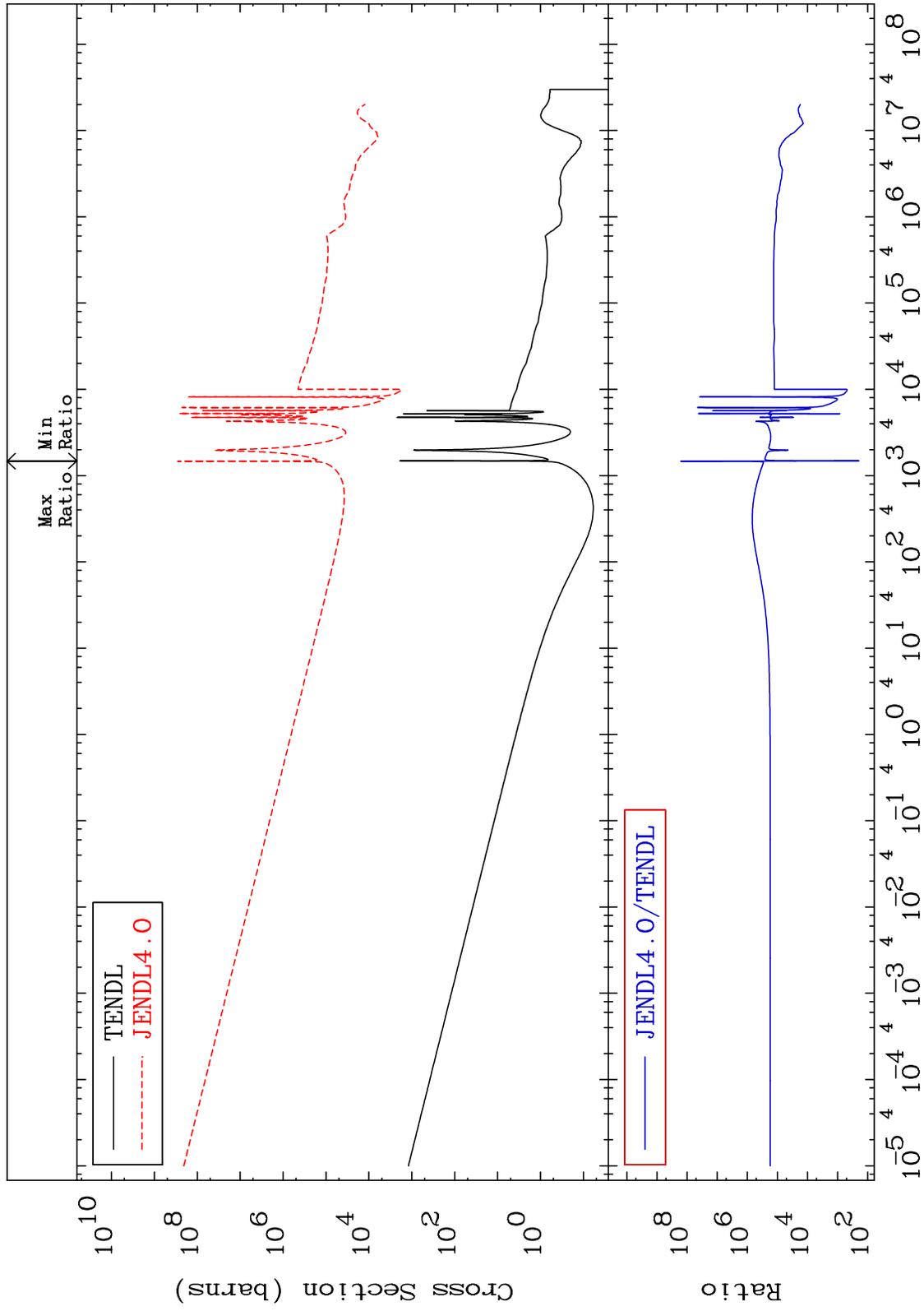
34-Se-80
1524. To 9999. %



MAT 3443

Kerma capture (mt102)
Cross Section

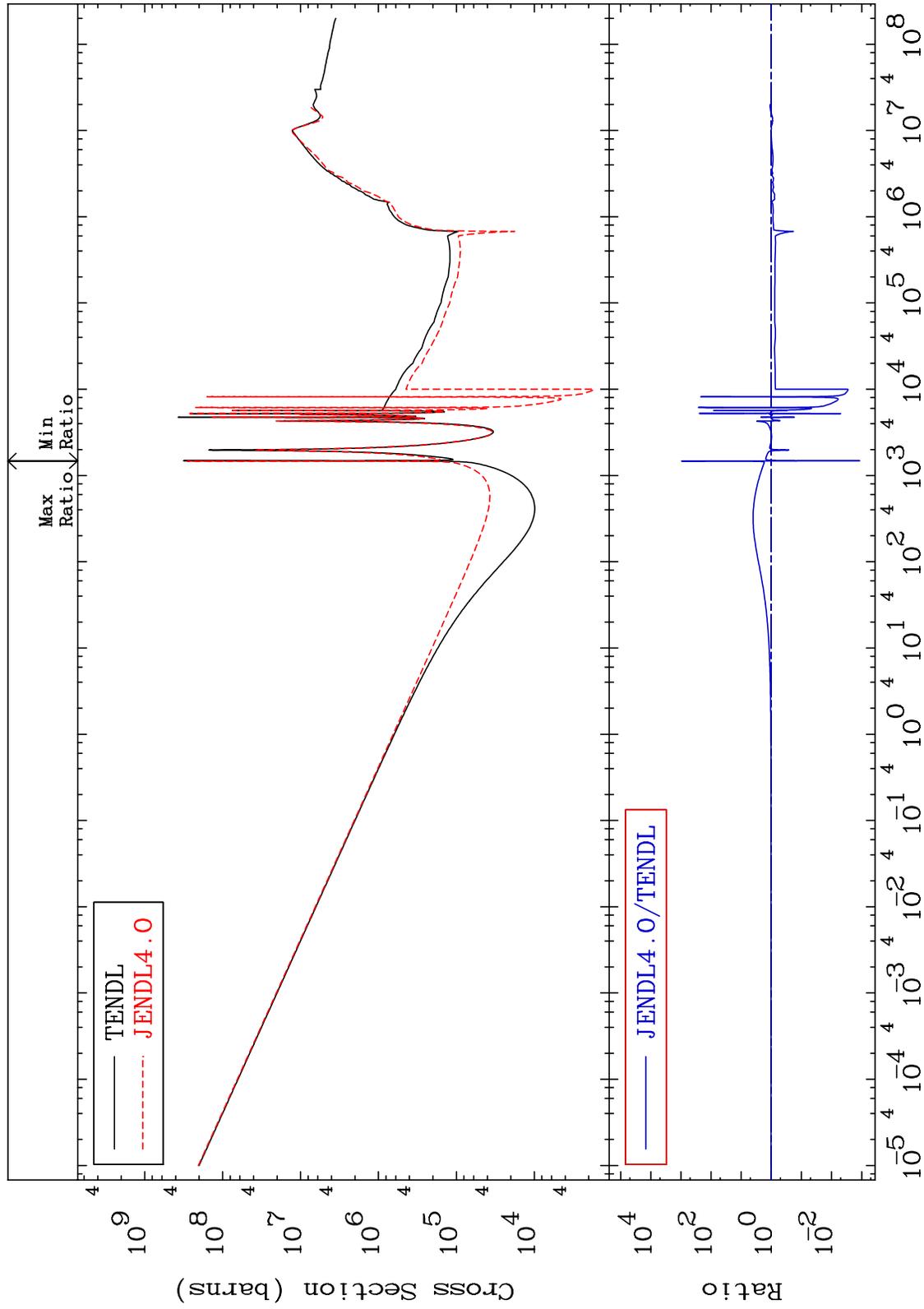
34-Se-80
9999. To 9999. %



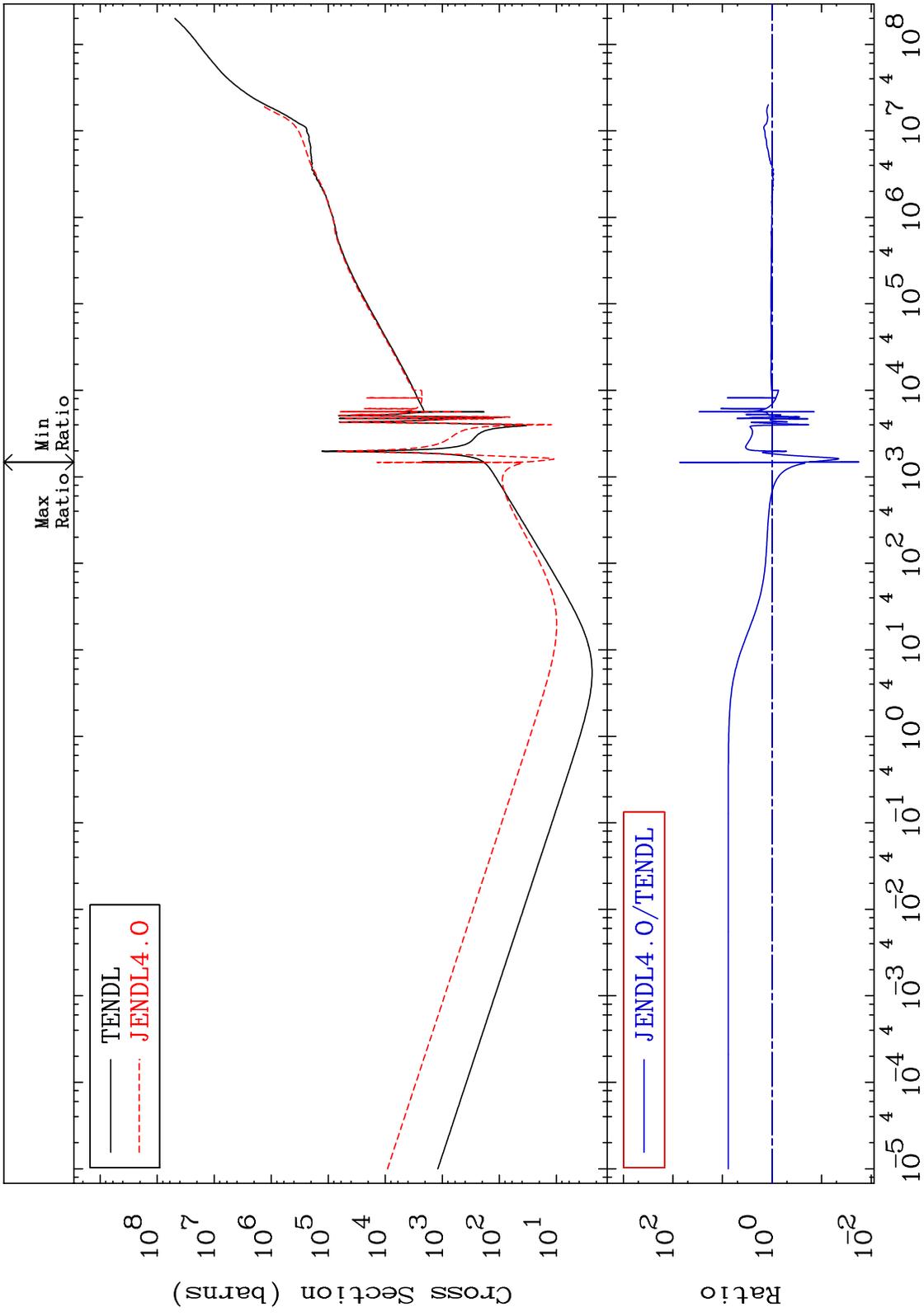
MAT 3443

Total photon (eV-barns)
Cross Section

34-Se-80
-99.89 To 9999. %



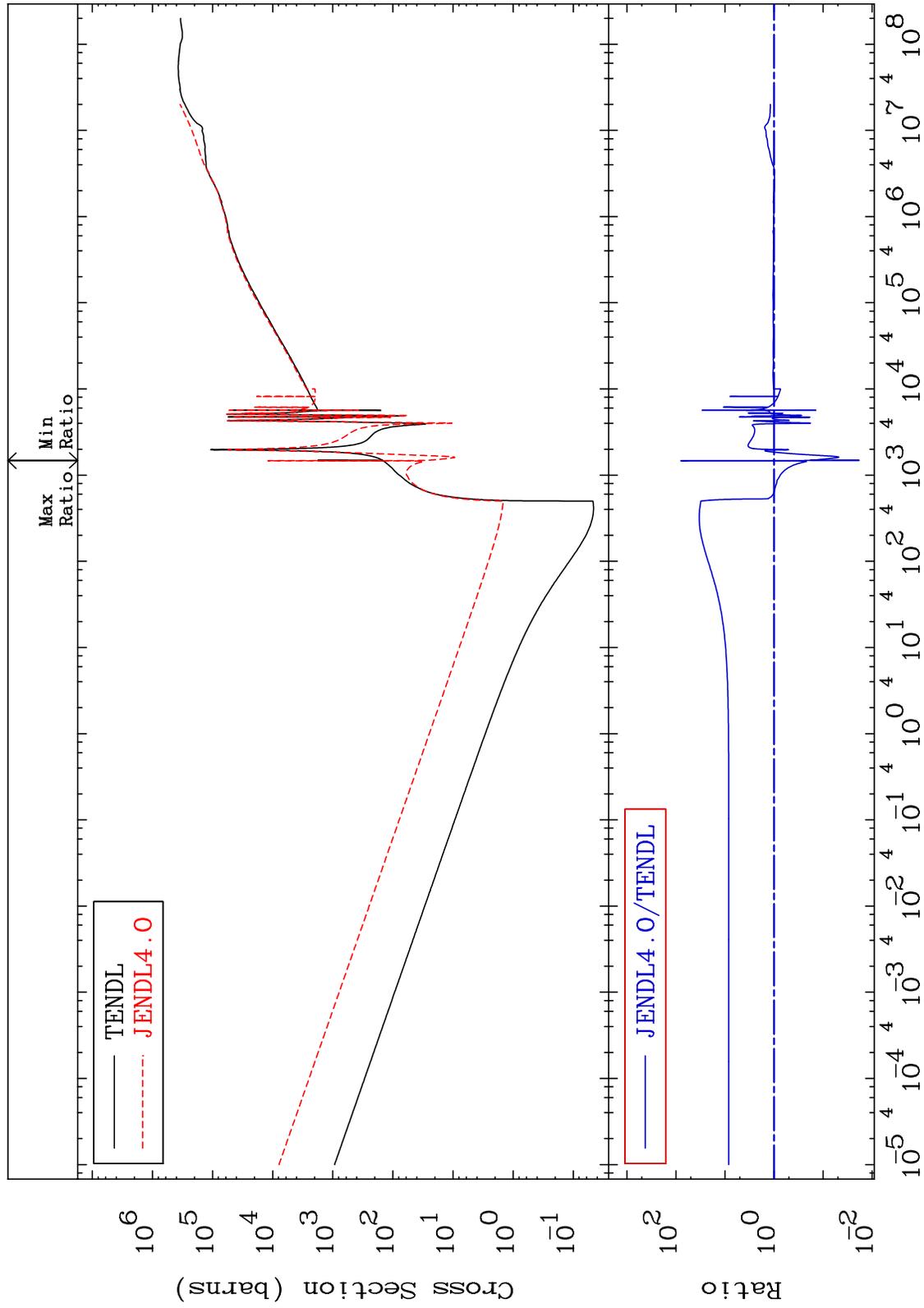
MAT 3443 Total kinematic kerma (high limit) 34-Se-80
 Cross Section -98.22 To 7170. %



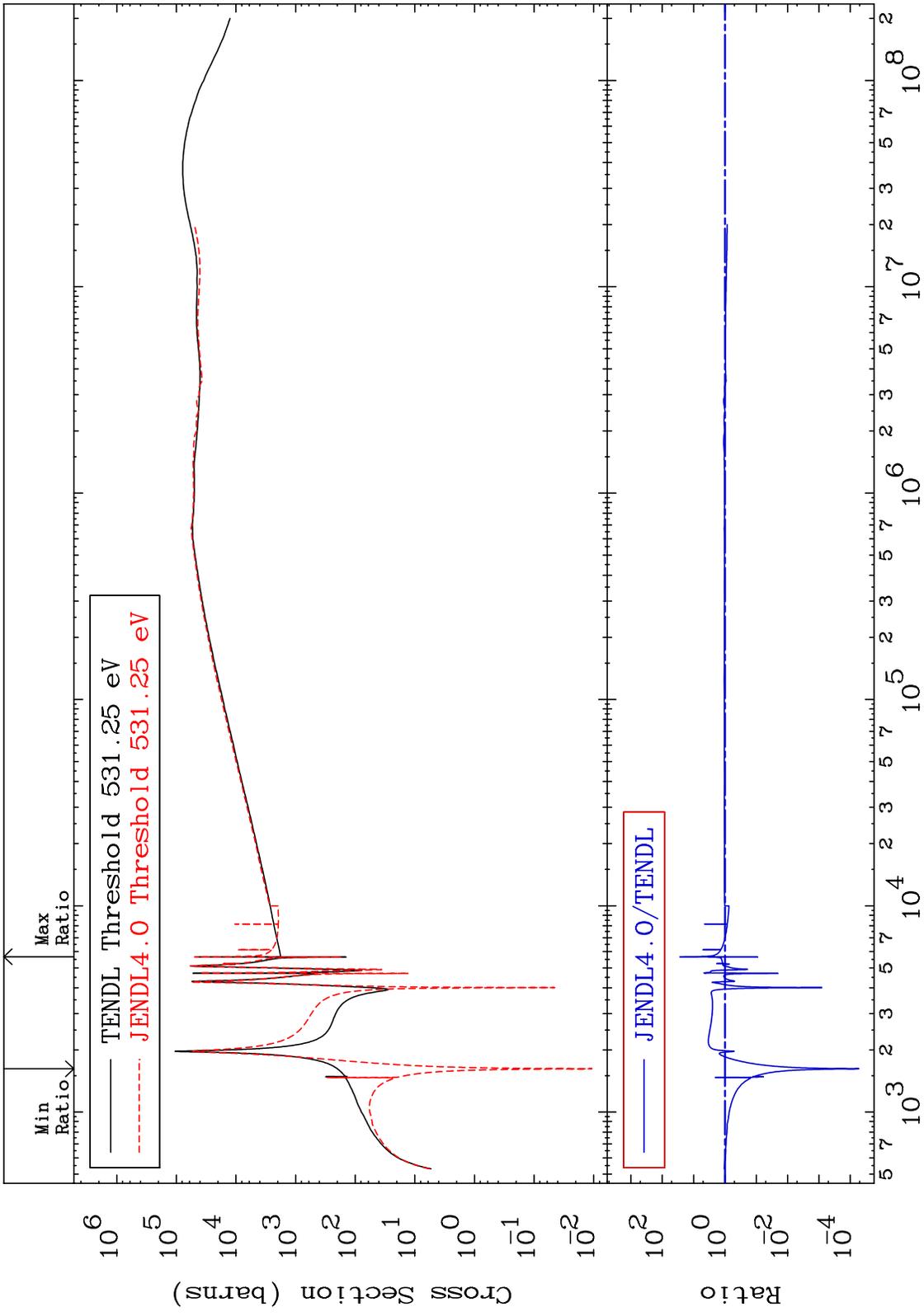
MAT 3443

Dpa total (eV-barns)
Cross Section

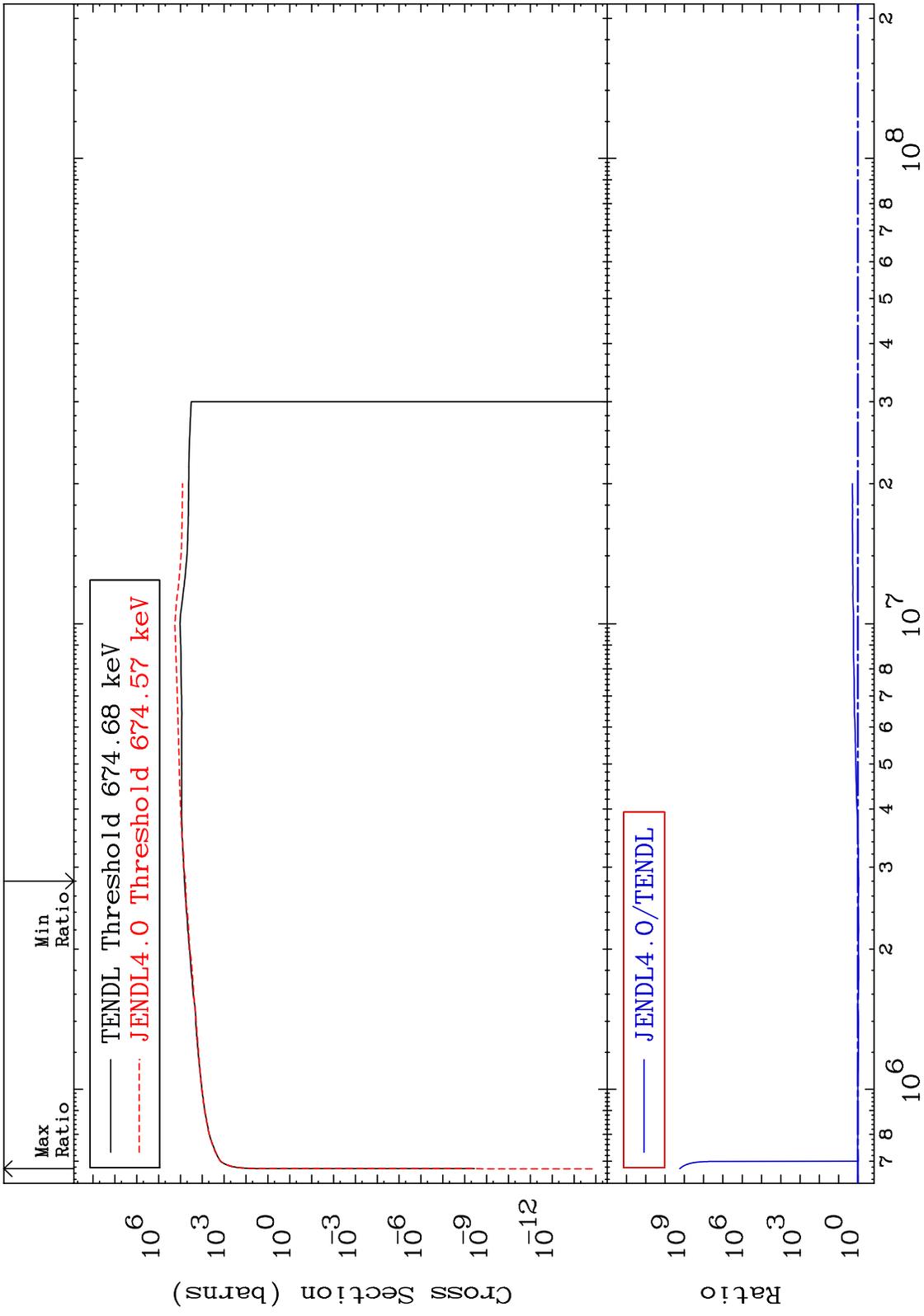
34-Se-80
-98.15 To 7887. %



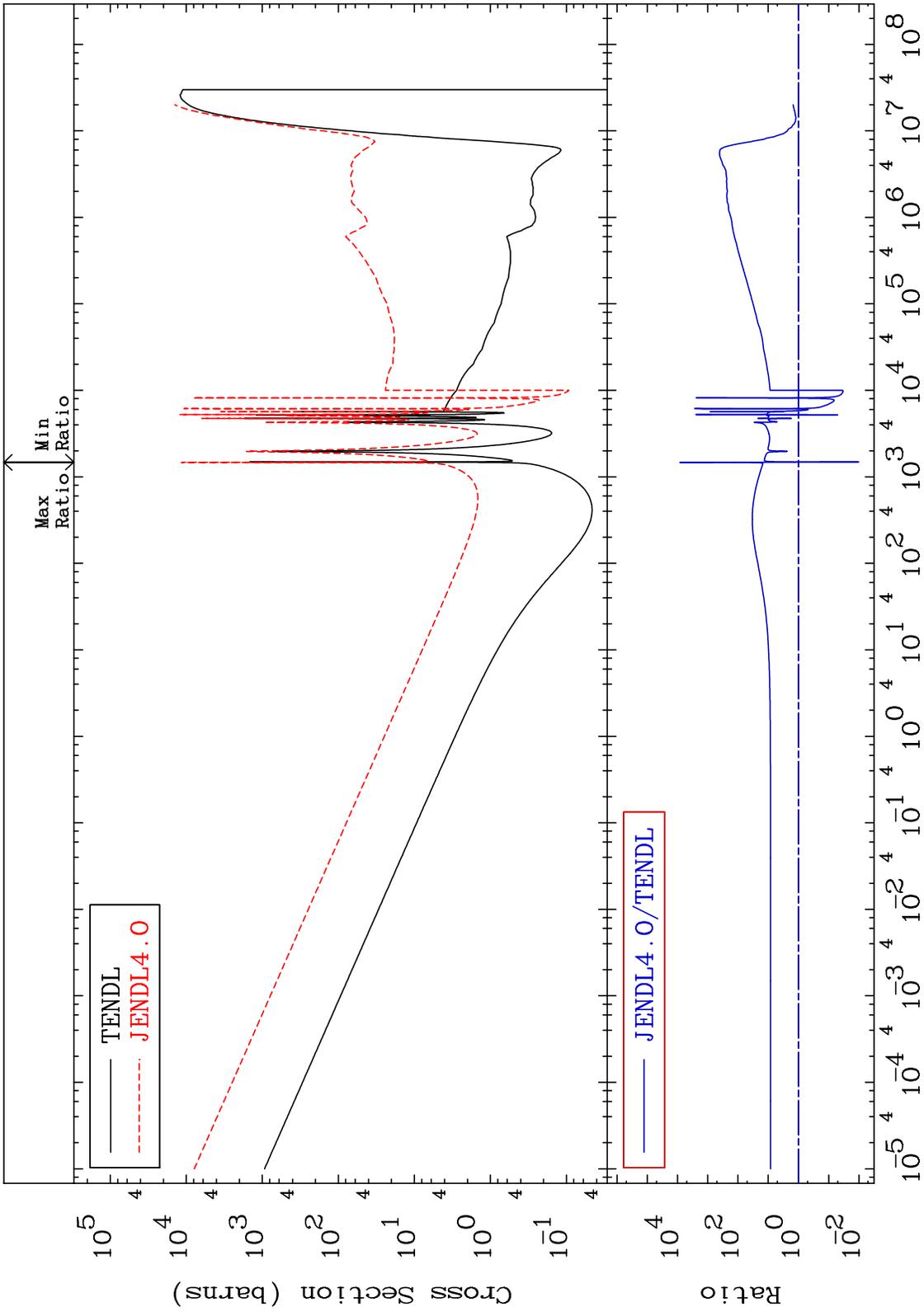
MAT 3443 Dpa elastic (mt2) 34-Se-80
 Cross Section -99.99 To 2665. %



MAT 3443 Dpa inelastic (mt51-91) 34-Se-80
 Cross Section -9.602 To 9999. %



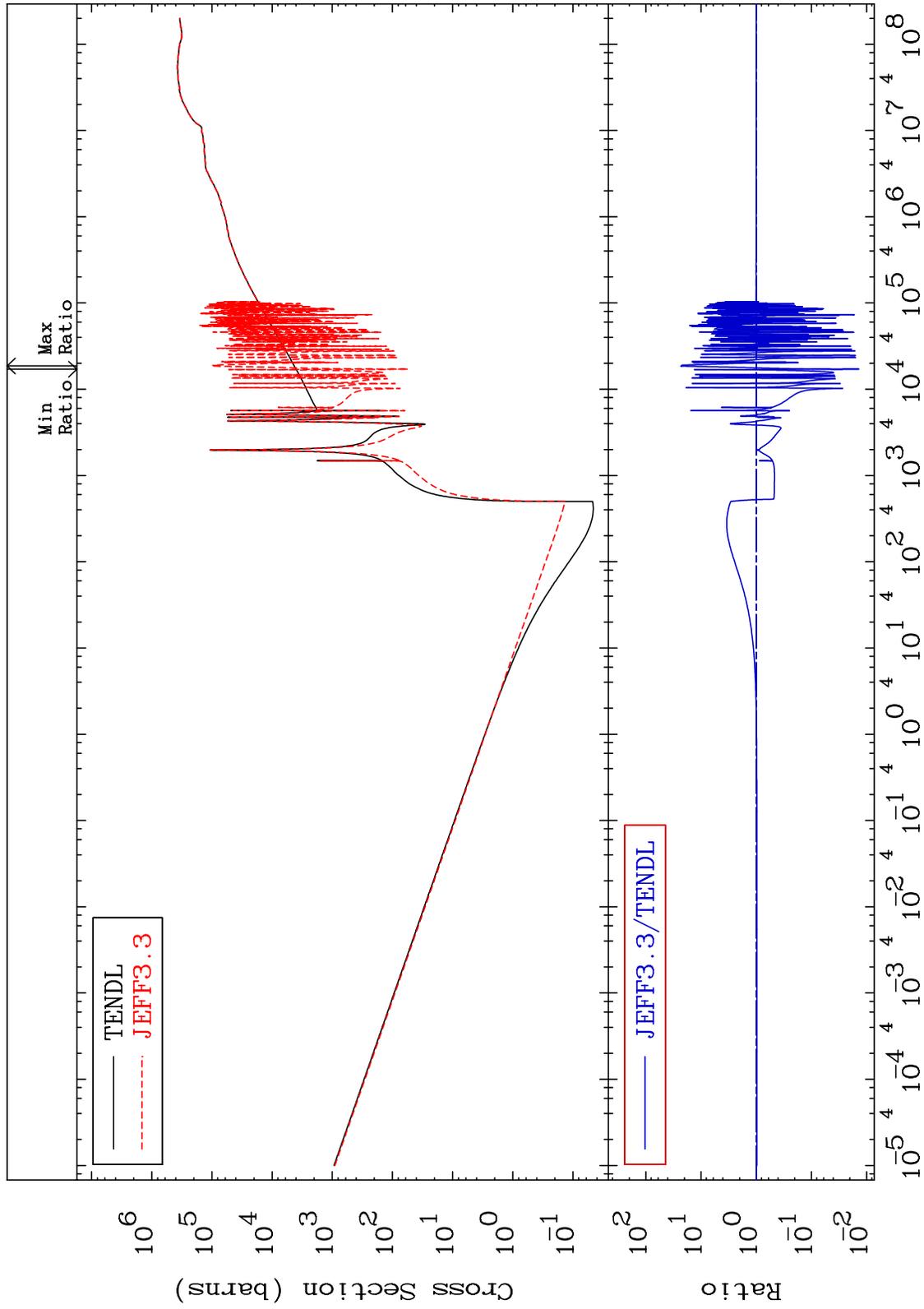
MAT 3443 Dpa disappearance (mt102 -120) 34-Se-80
 Cross Section -98.99 To 9999. %



MAT 3443

Dpa total (eV-barns)
Cross Section

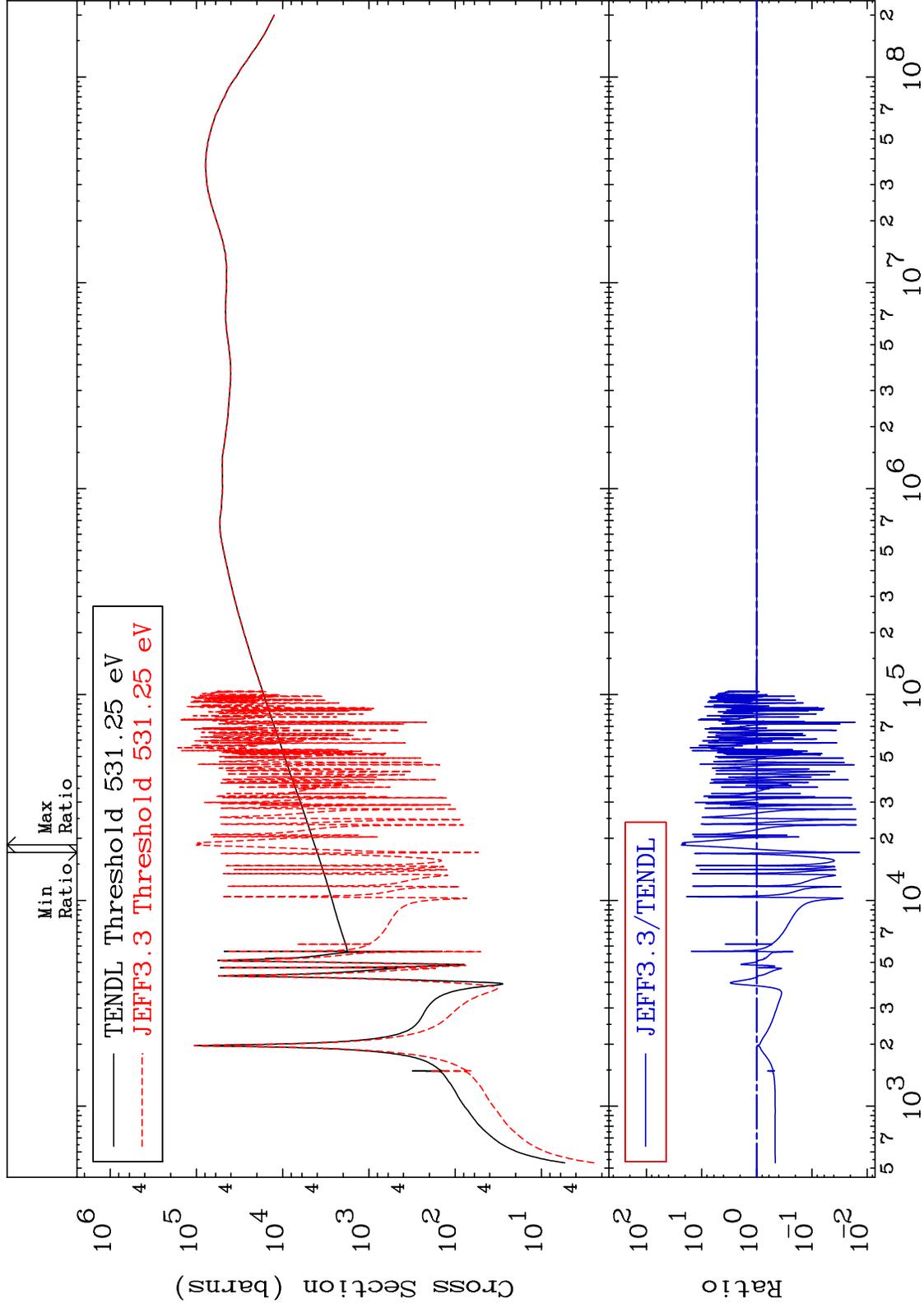
34-Se-80
-98.63 To 2240. %



MAT 3443

Dpa elastic (mt2)
Cross Section

34-Se-80
-98.65 To 2241. %

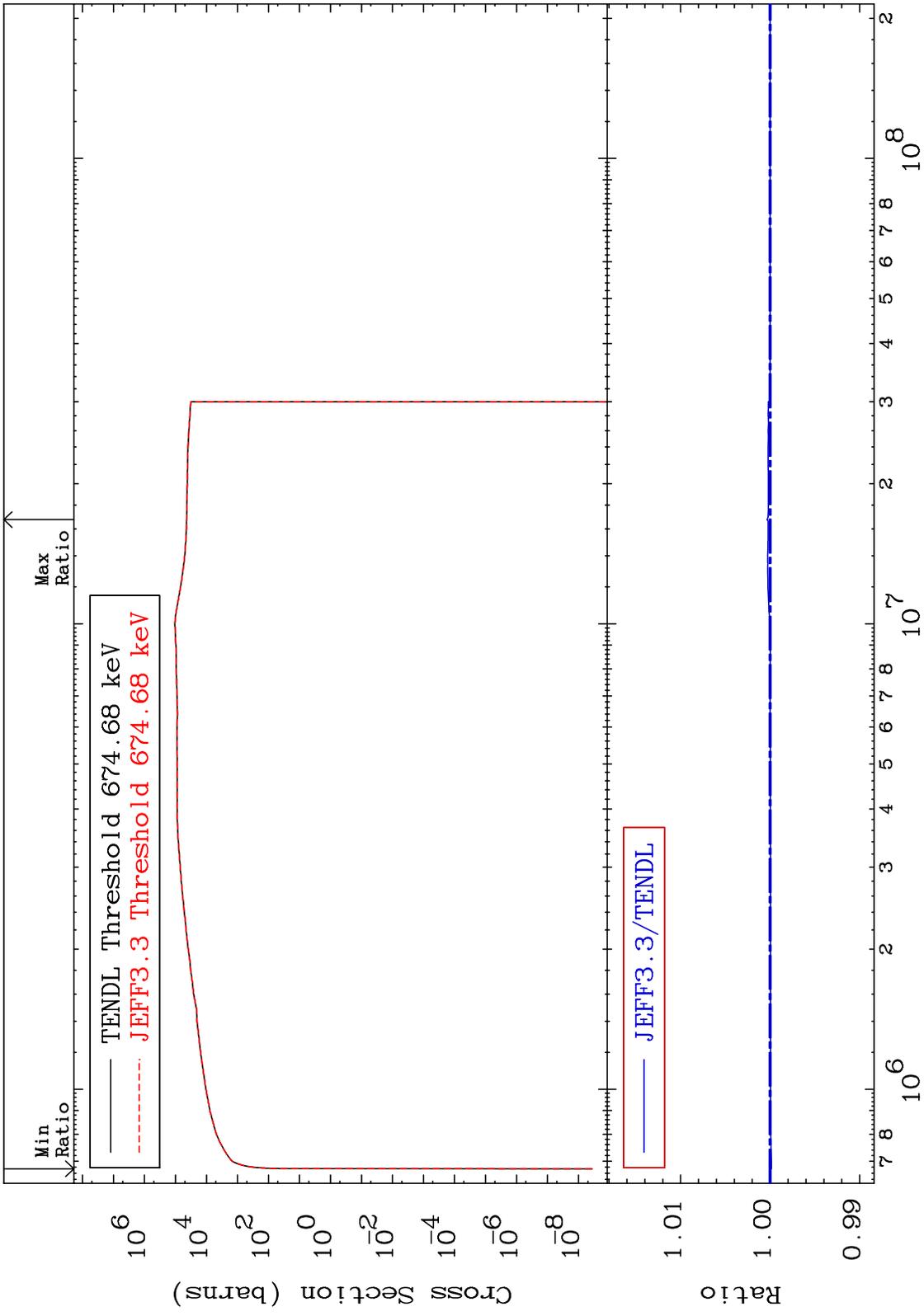


63

34-Se-80

34-Se-80

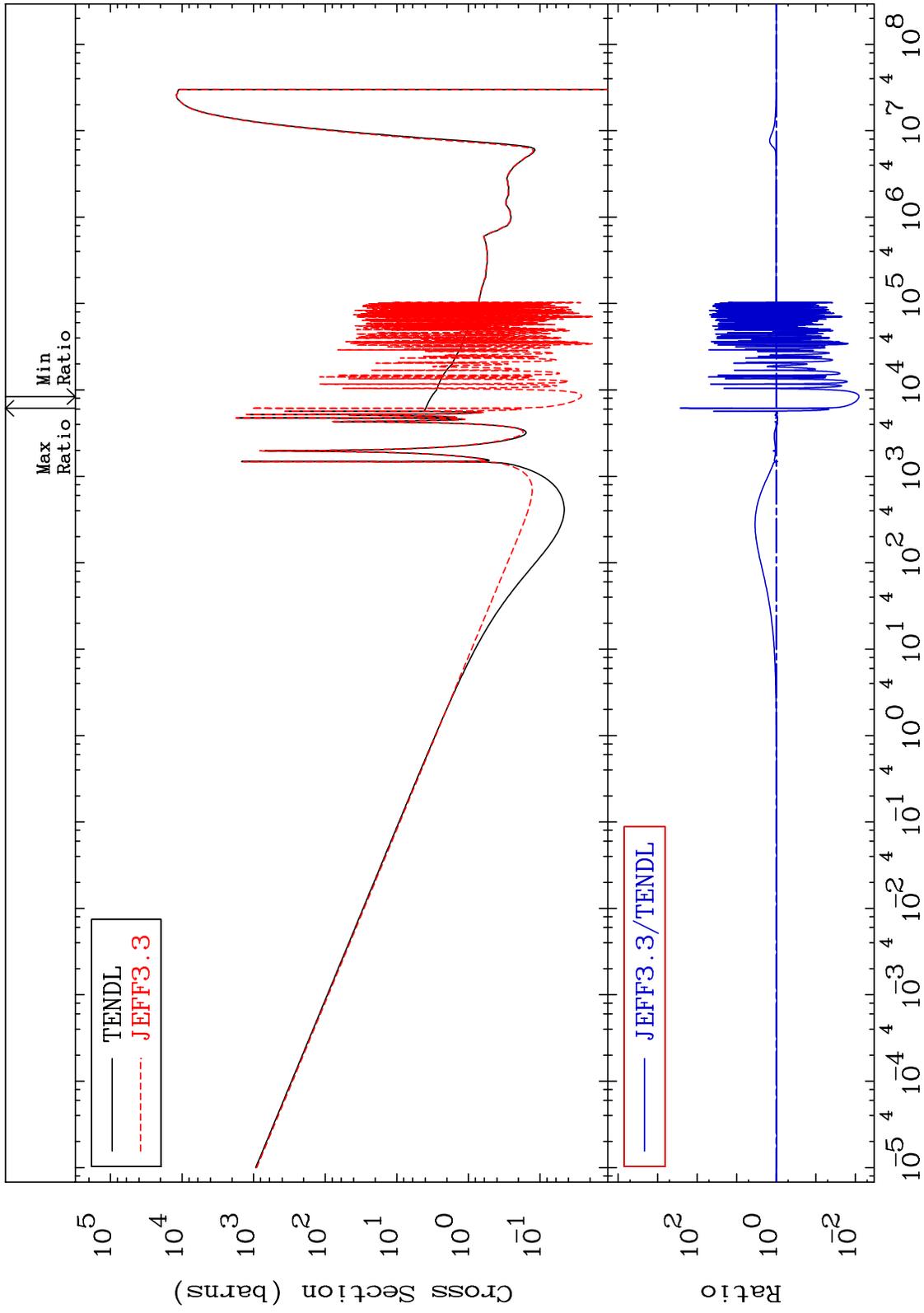
MAT 3443 Dpa inelastic (mt51-91) 34-Se-80
Cross Section -0.014 To 0.034 %



MAT 3443

Dpa disappearance (mt102 -120)
Cross Section

34-Se-80
-99.19 To 9999. %

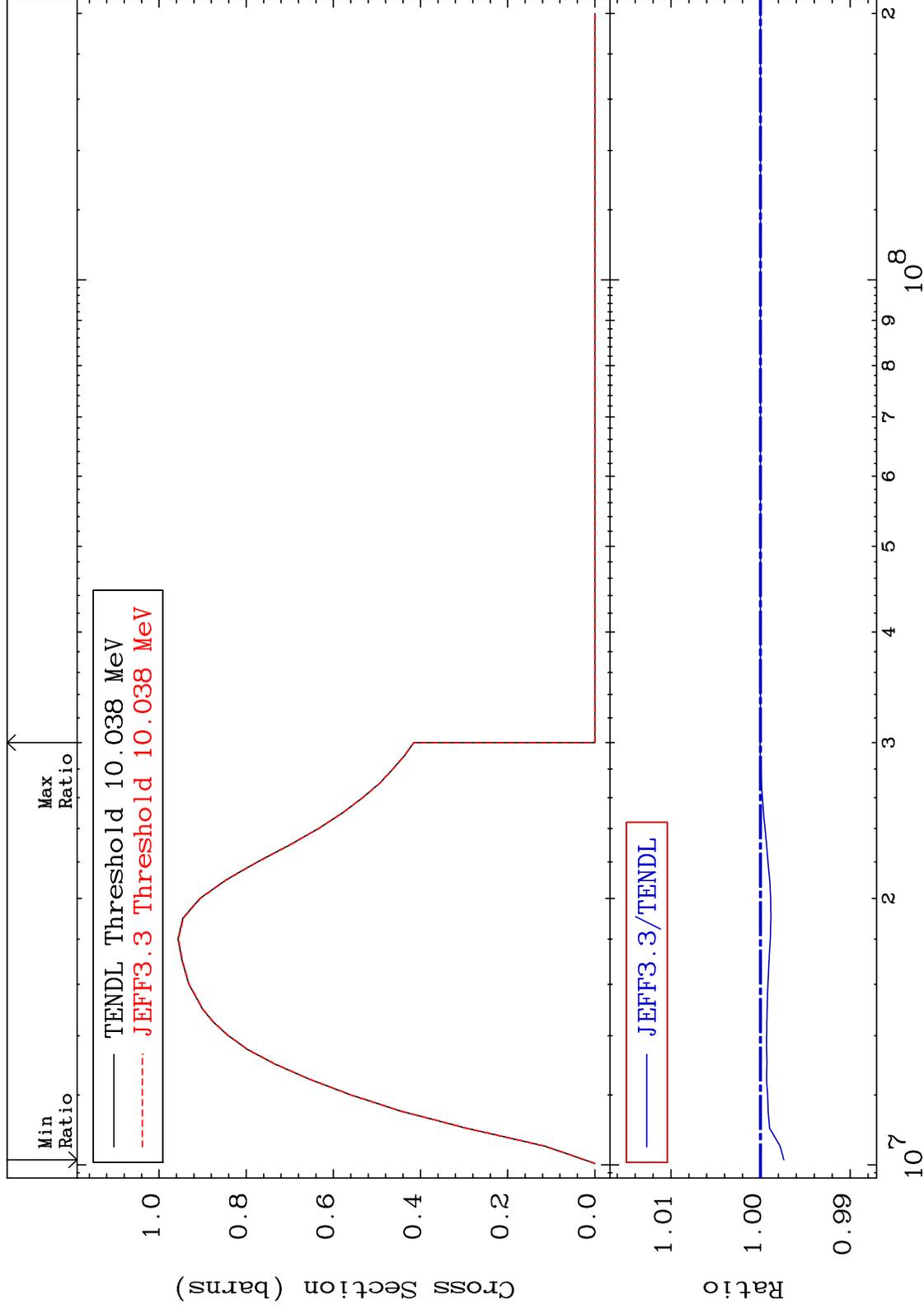


MAT 3443

(n,2n):34-Se-79g

34-Se-80

Radionuclide Production Cross Section -0.260 To 0.005 %



66

Incident Energy (eV)

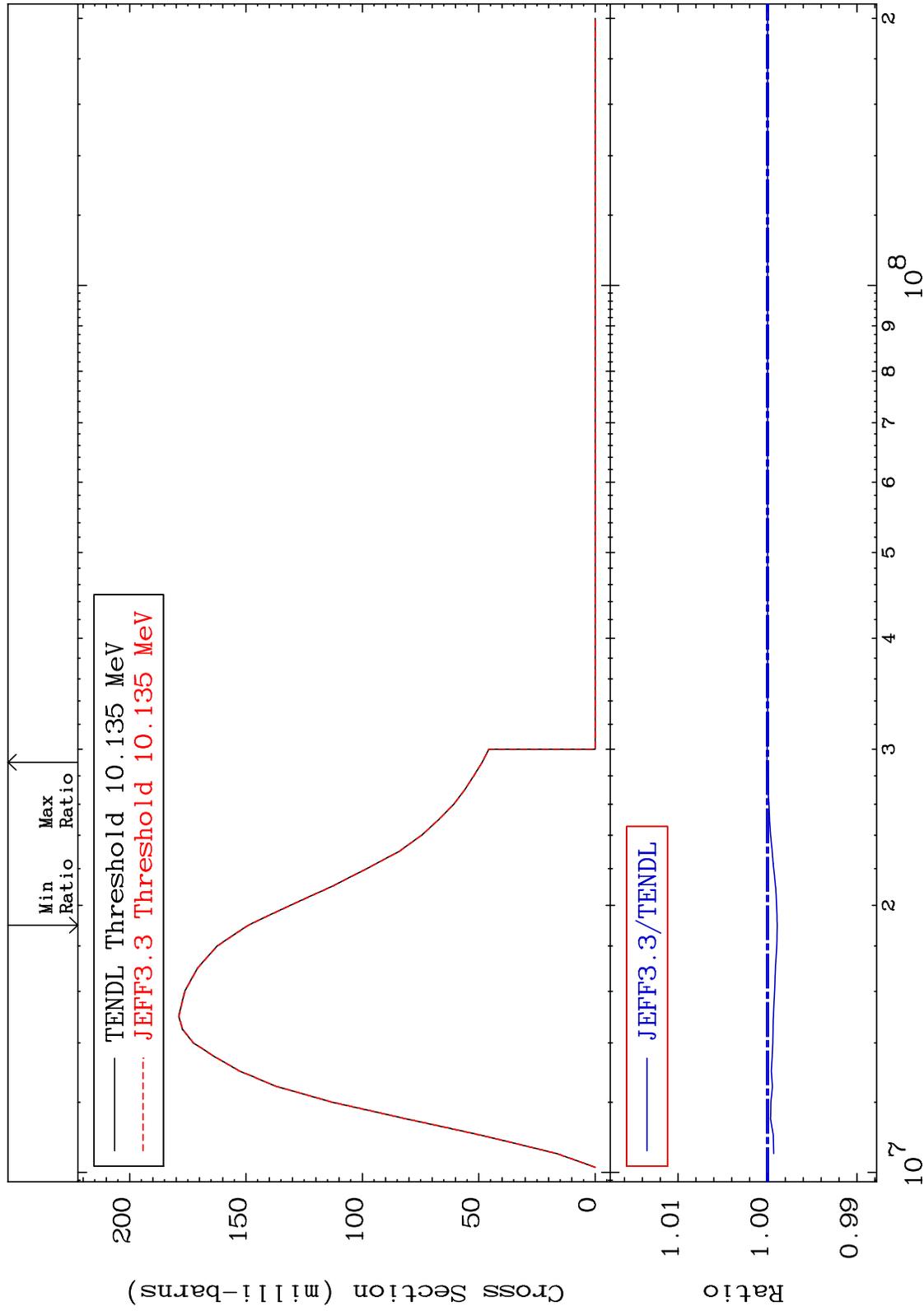
34-Se-80

MAT 3443

(n,2n):34-Se-79m1

34-Se-80

Radionuclide Production Cross Section -0.109 To 0.007 %

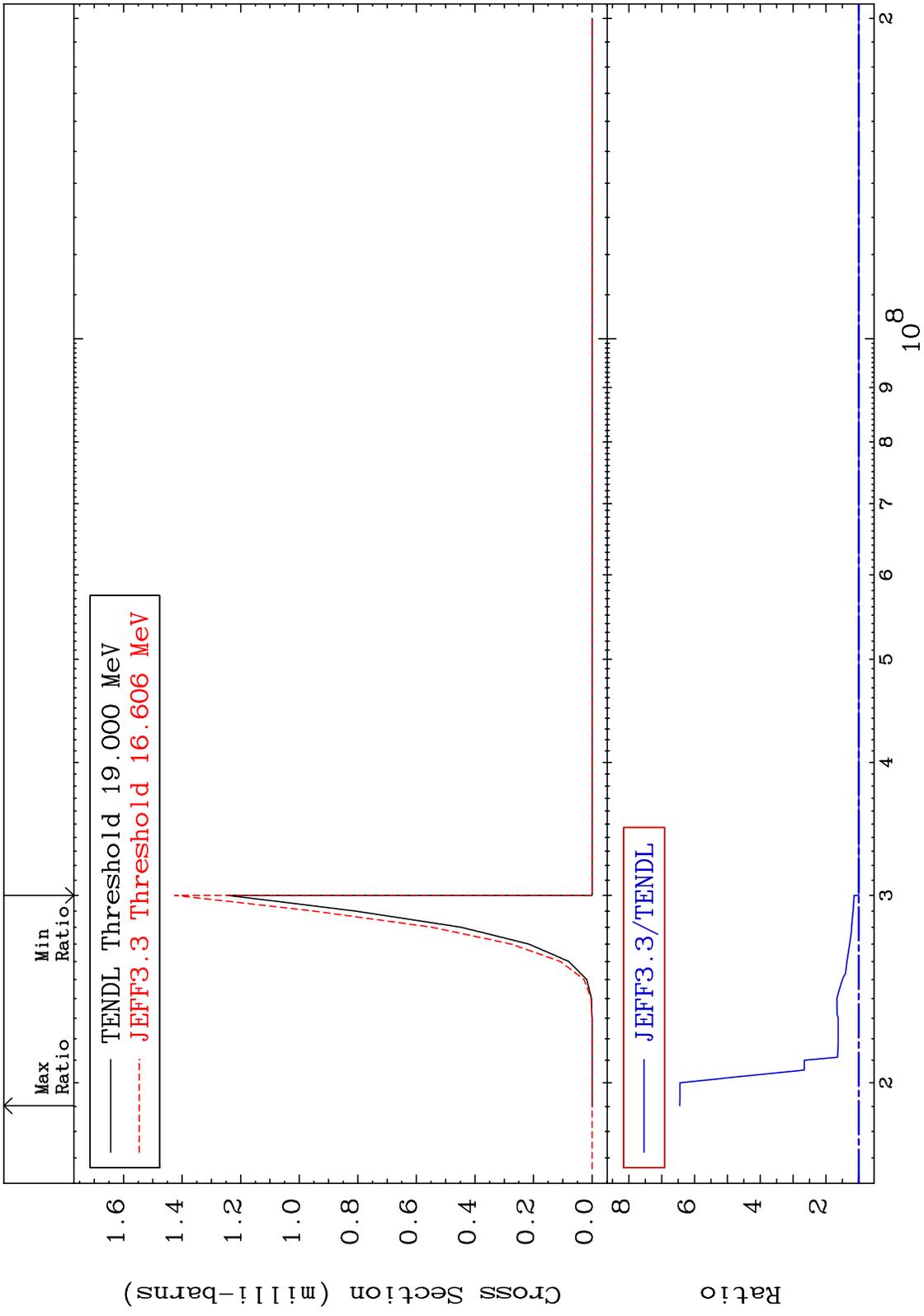


67

Incident Energy (eV)

34-Se-80

MAT 3443 (n,2n) α : 32-Ge-75g 34-Se-80
 Radionuclide Production Cross Section 0.000 To 545.0 %

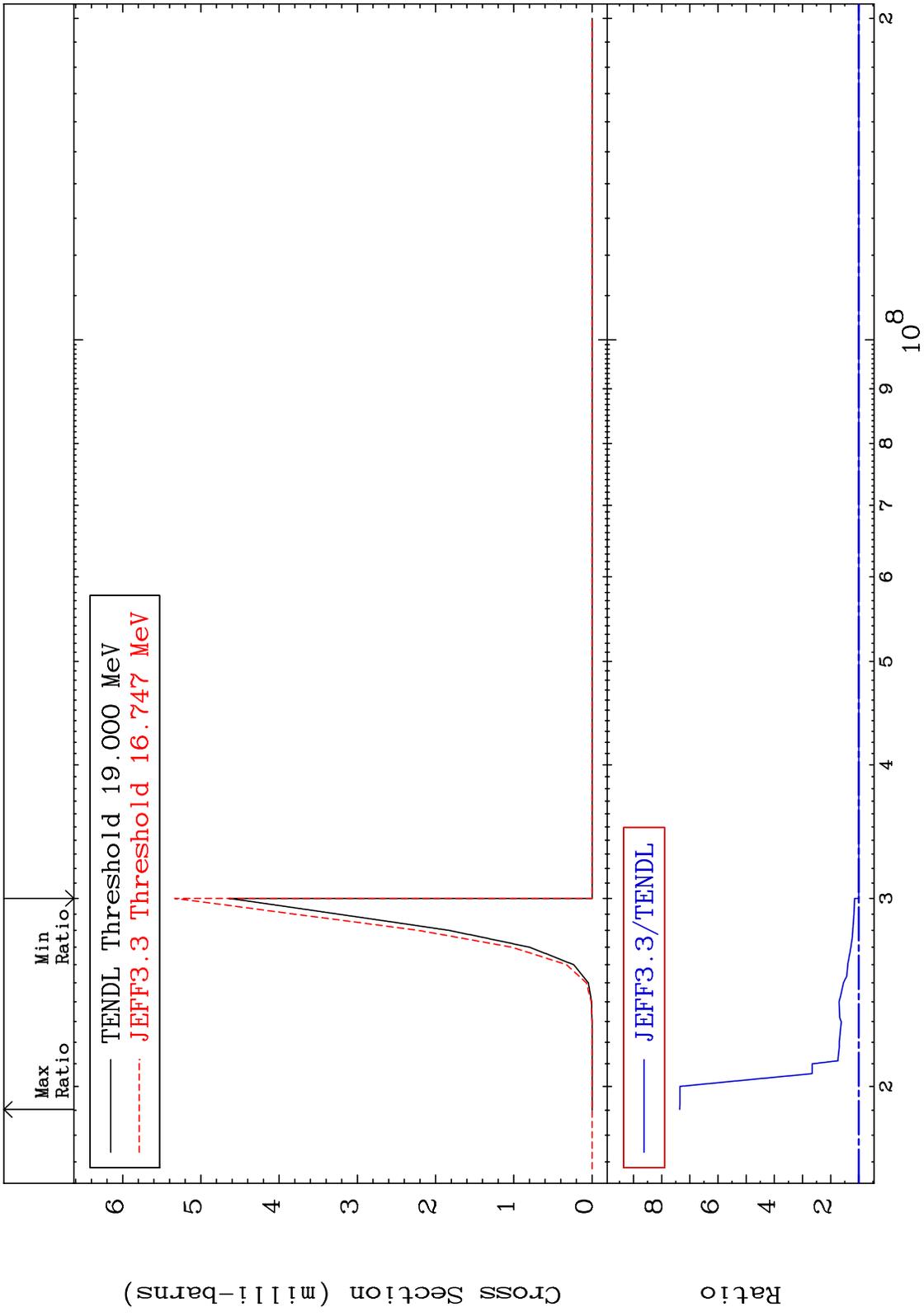


MAT 3443

(n,2n) α :32-Ge-75m2

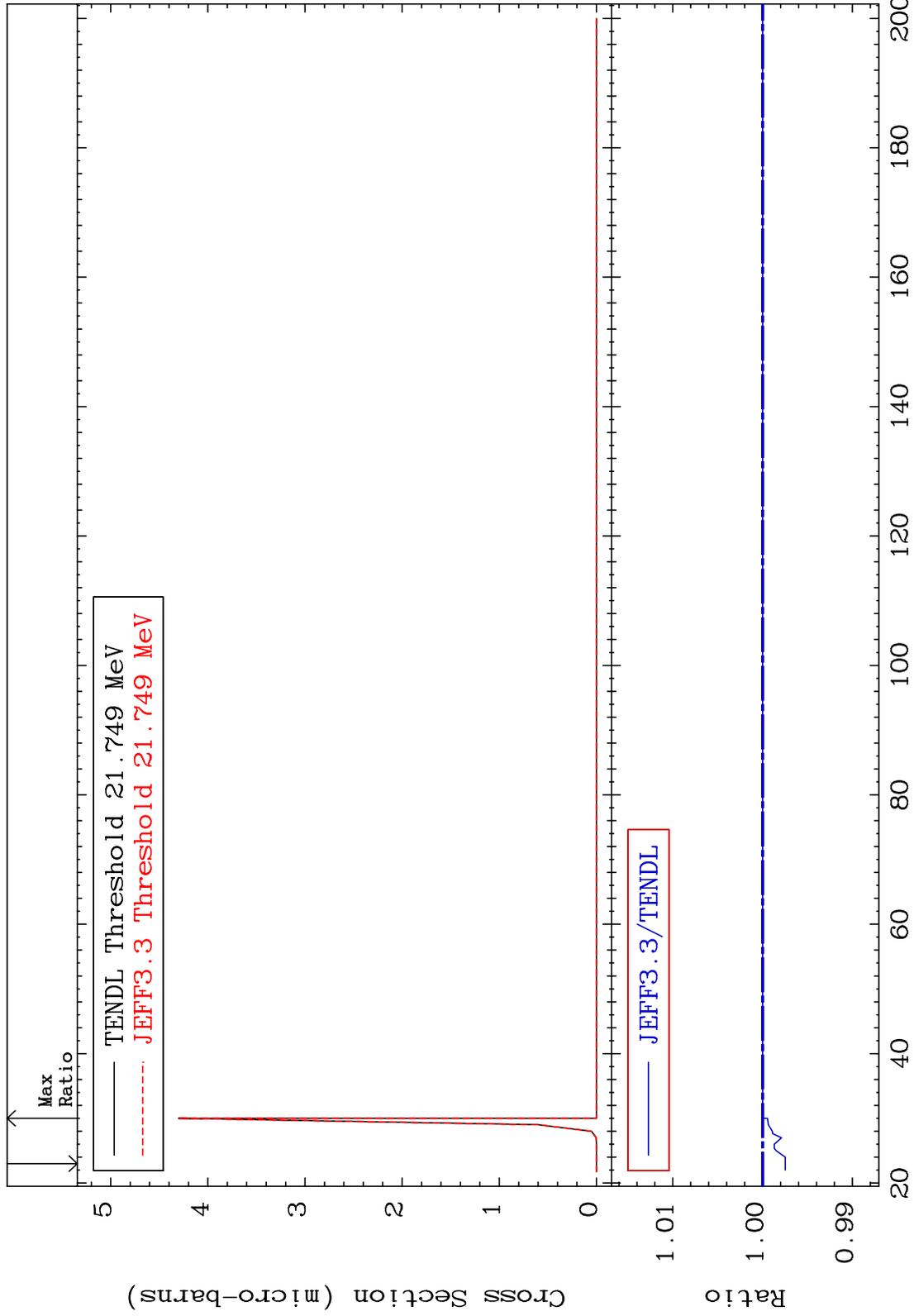
34-Se-80

Radionuclide Production Cross Section 0.000 To 635.9 %



MAT 3443

(n, n') He-3:32-Ge-77g 34-Se-80
Radionuclide Production Cross Section -0.251 To 0.000 %



70

Incident Energy (MeV)

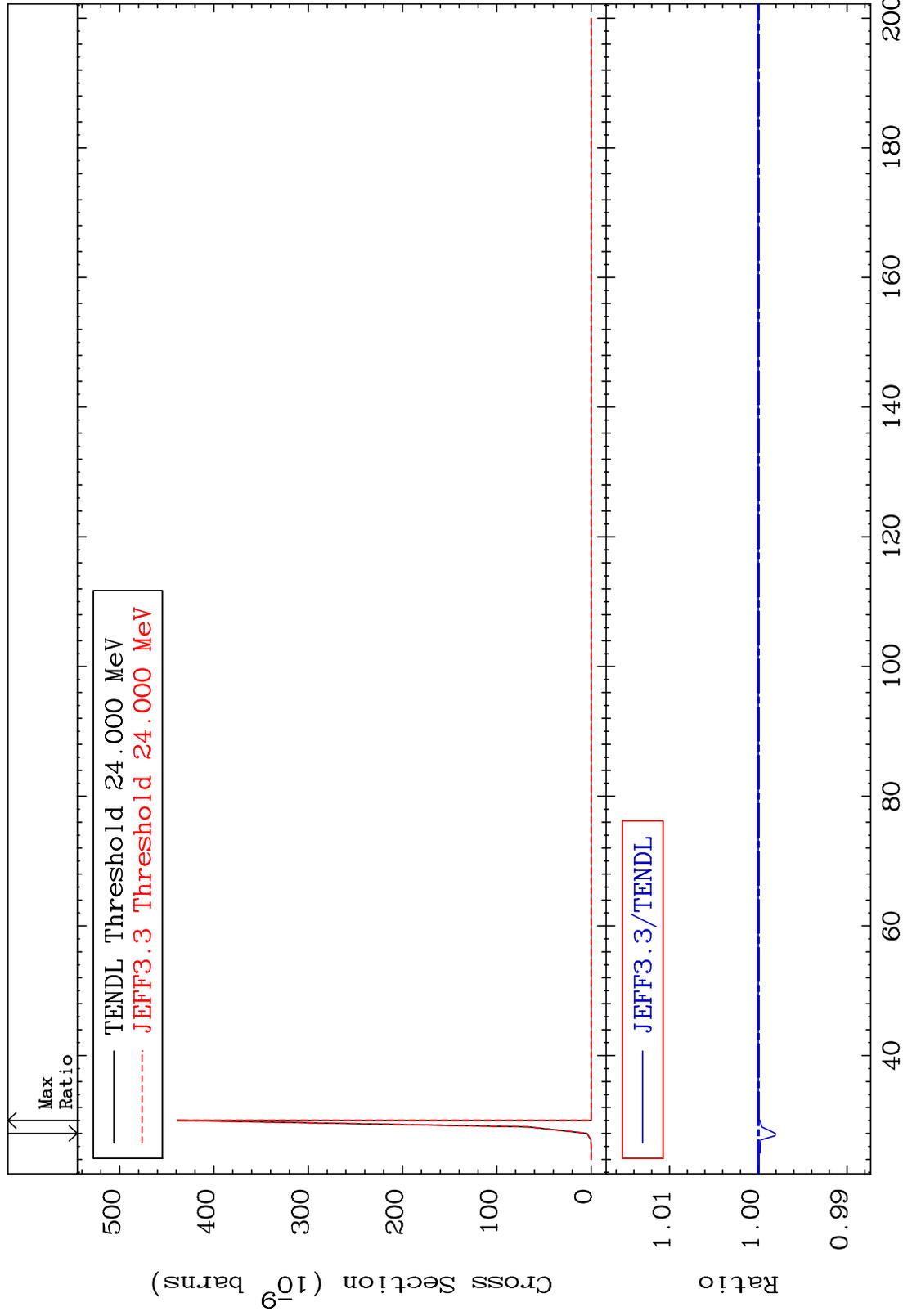
34-Se-80

MAT 3443

(n,n') He-3:32-Ge-77m1

34-Se-80

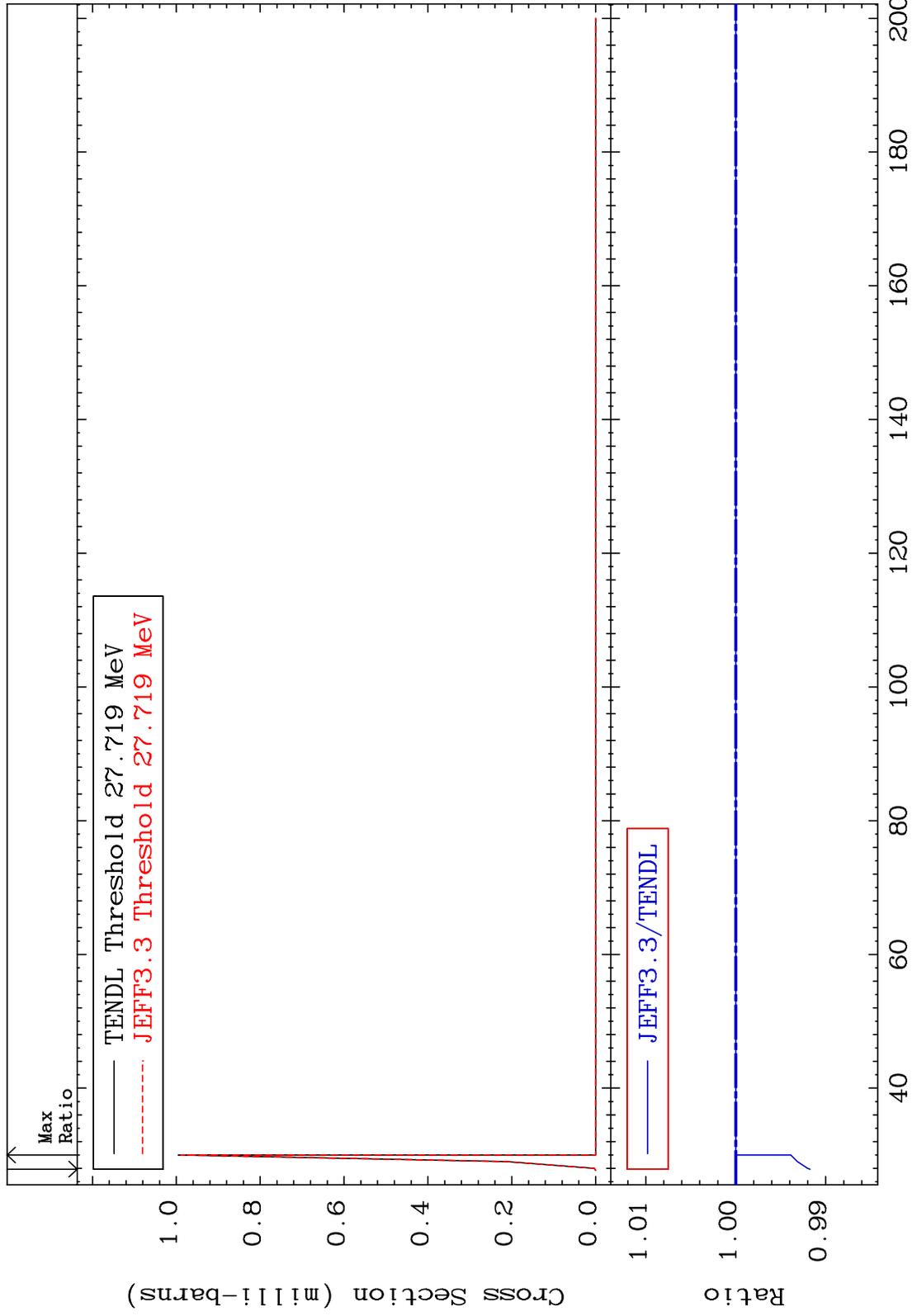
Radionuclide Production Cross Section -0.192 To 0.000 %



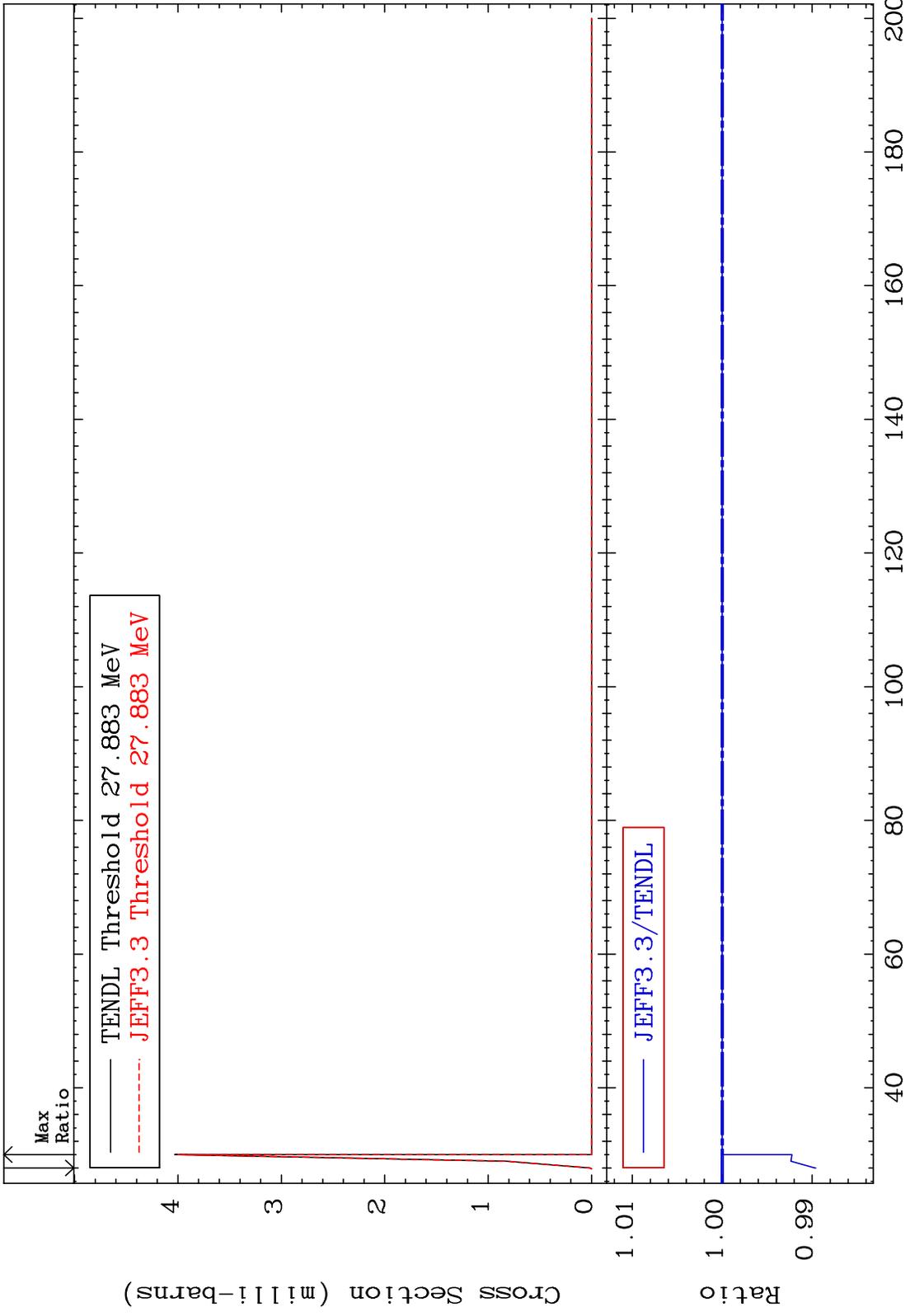
MAT 3443

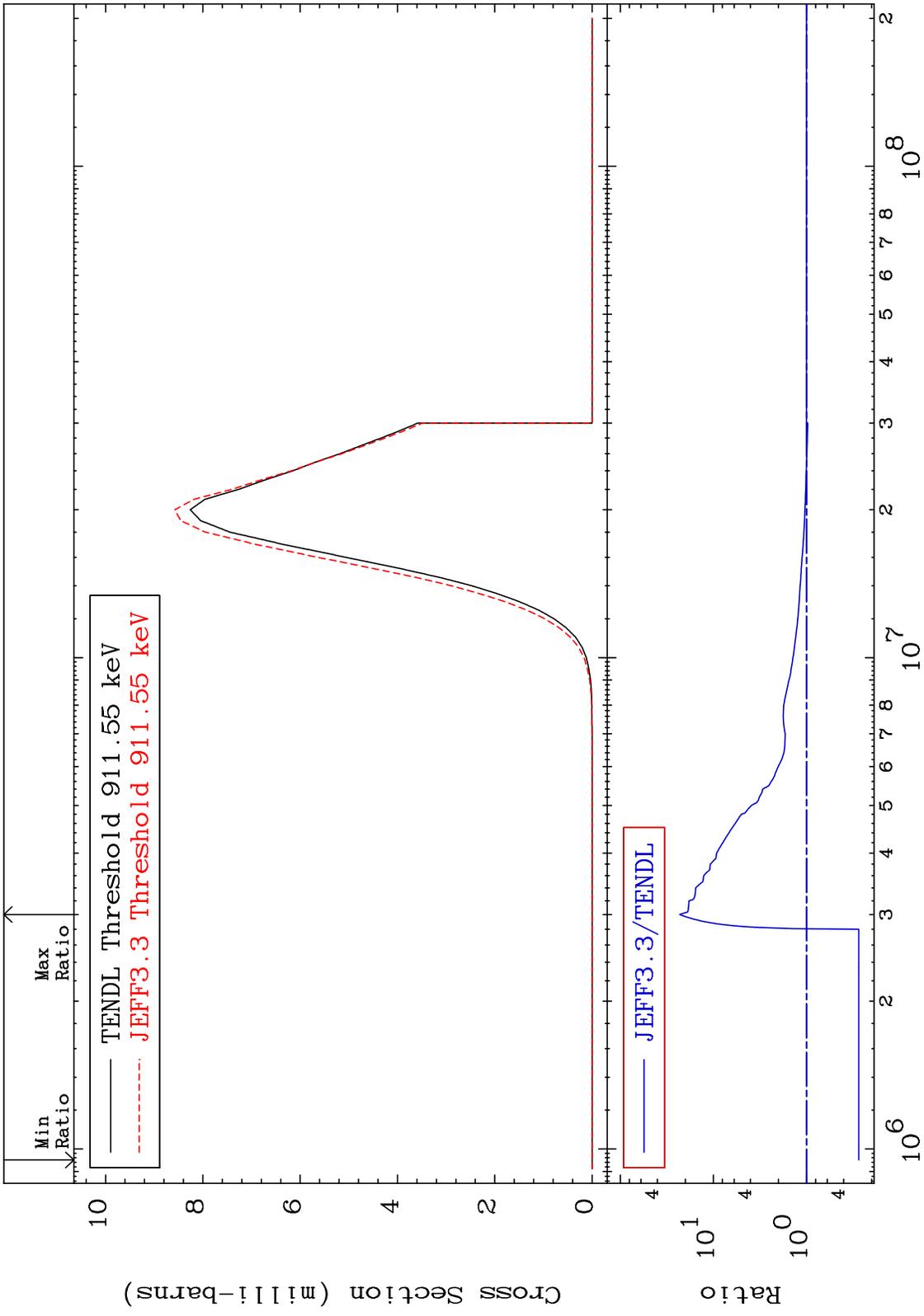
34-Se-80

(n,4n):34-Se-77g
Radionuclide Production Cross Section -0.826 To 0.000 %



MAT 3443 (n,4n):34-Se-77m1 34-Se-80
 Radionuclide Production Cross Section -1.031 To 0.000 %



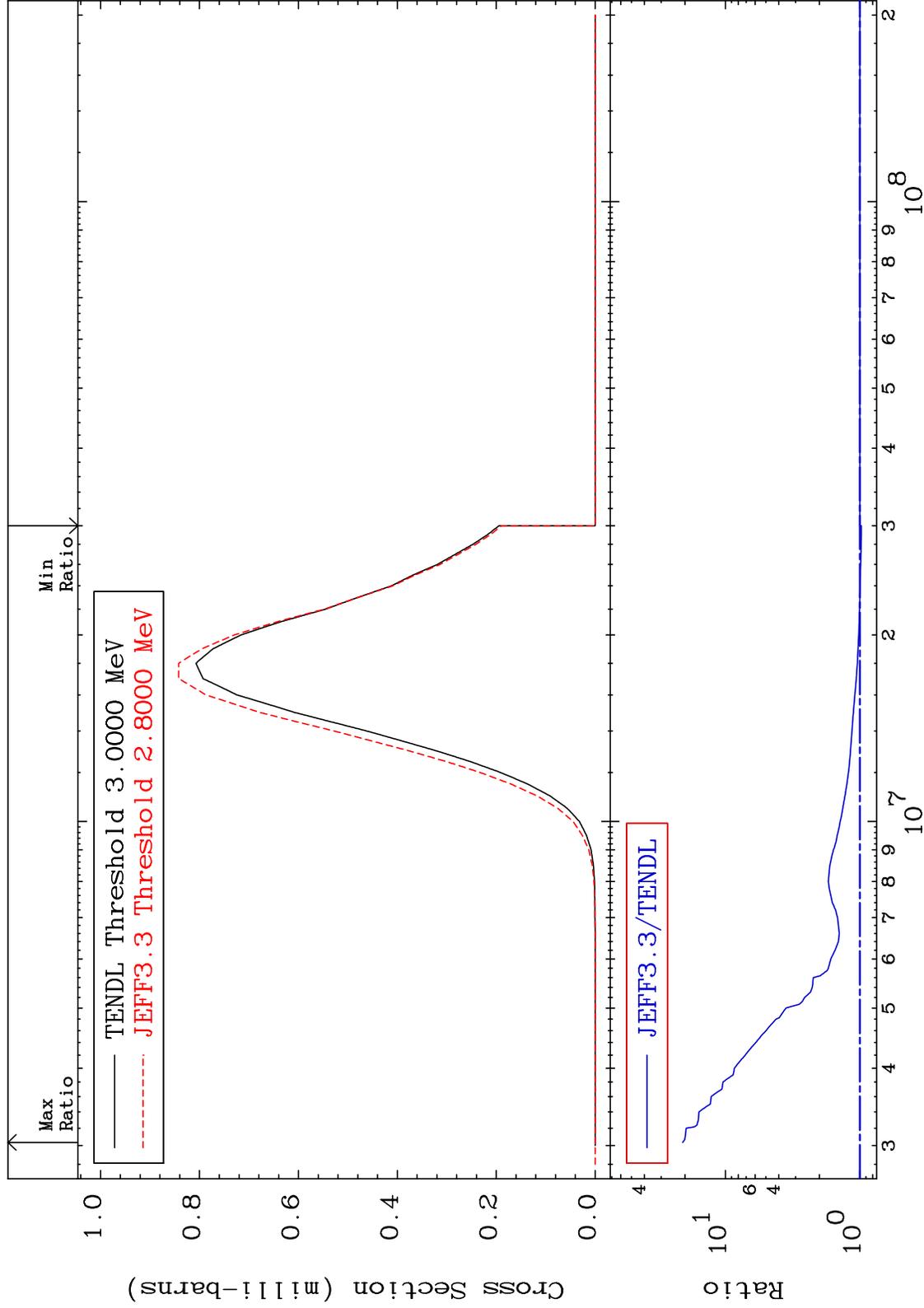


MAT 3443

(n, α): 32-Ge-77m1

34-Se-80

Radionuclide Production Cross Section -2.753 To 1979. %



75

Incident Energy (eV)

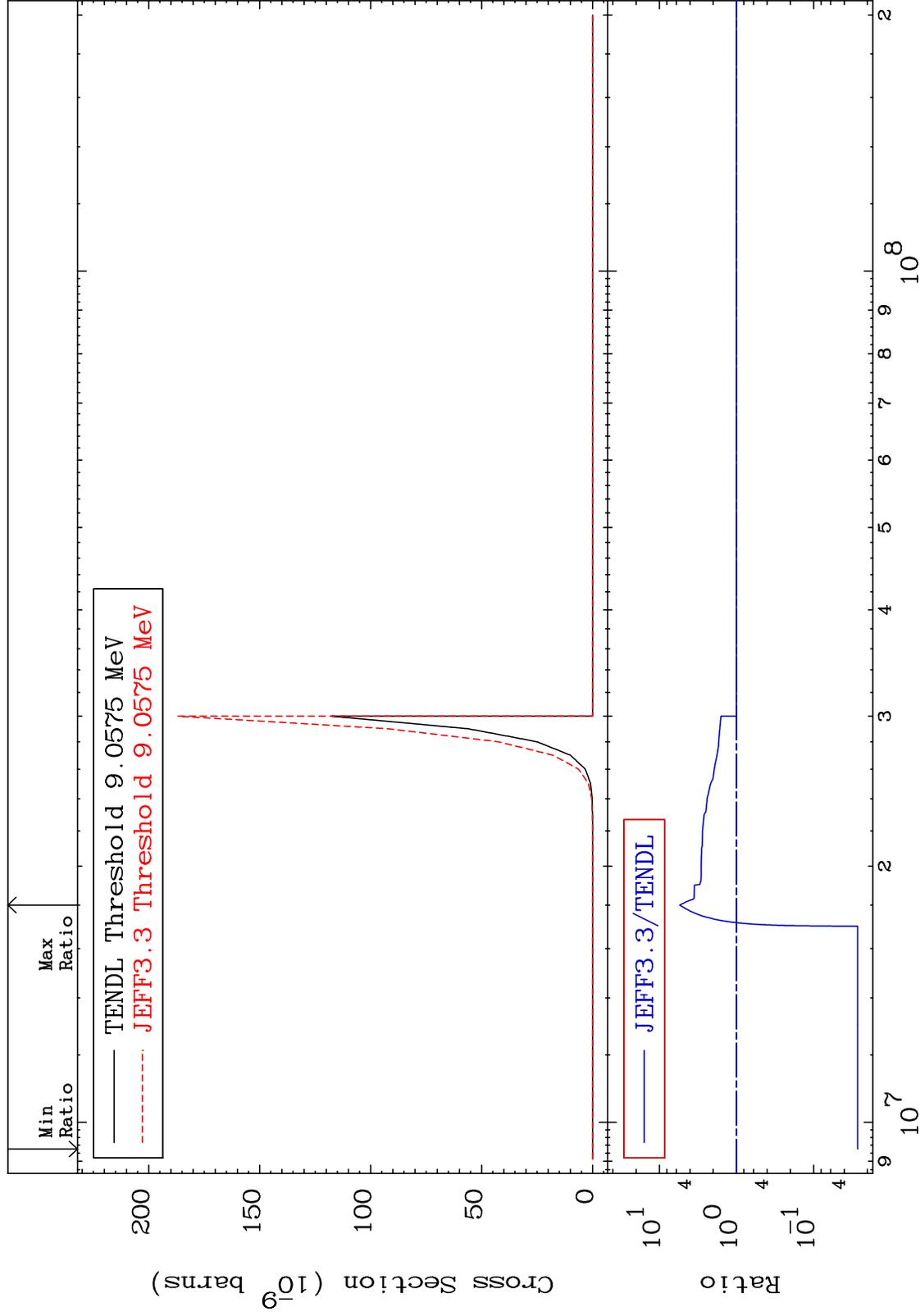
34-Se-80

MAT 3443

(n,2α):30-Zn-73g

34-Se-80

Radionuclide Production Cross Section -97.32 To 444.5 %



76

Incident Energy (eV)

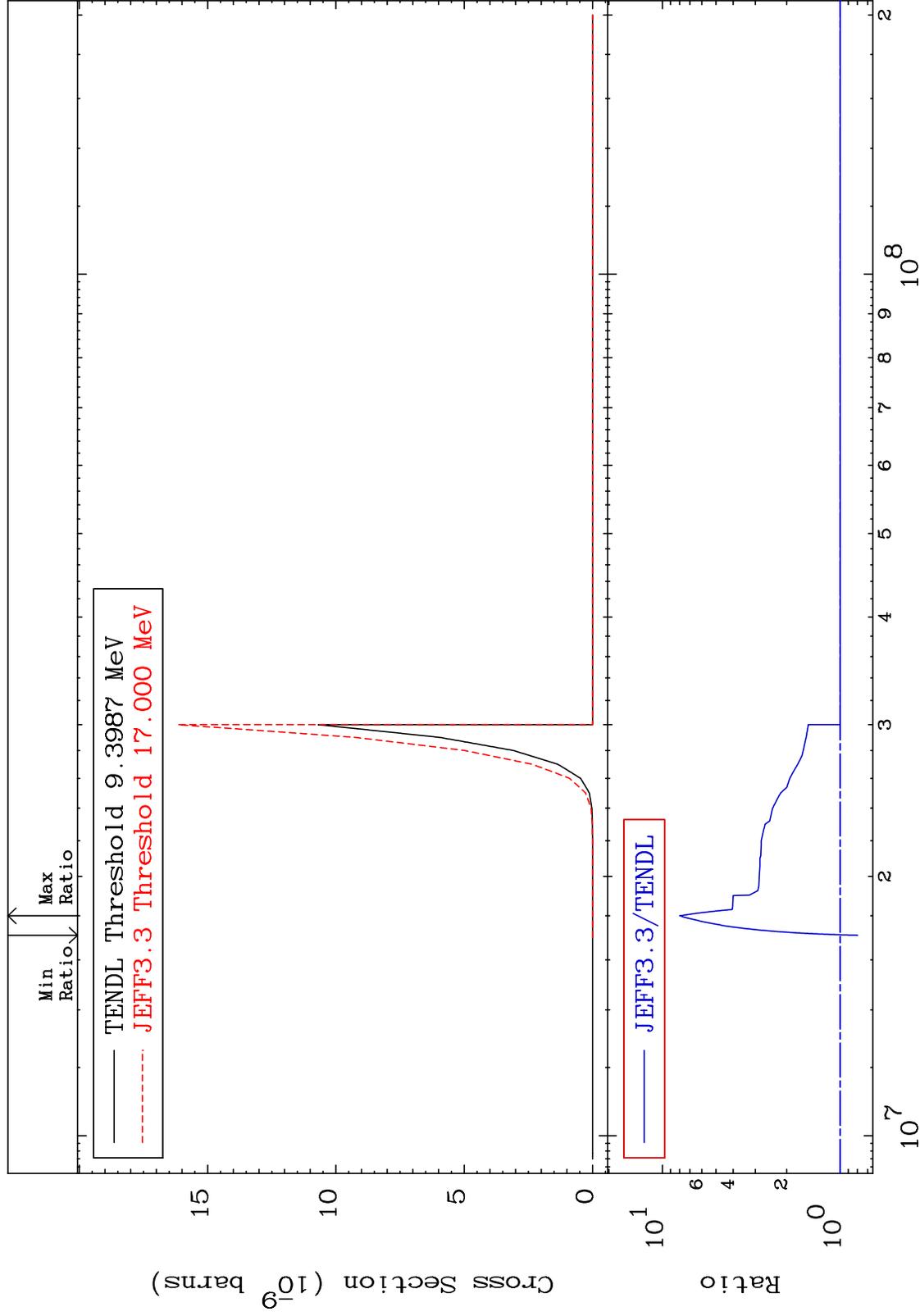
34-Se-80

MAT 3443

(n,2α):30-Zn-73m3

34-Se-80

Radionuclide Production Cross Section -20.30 To 698.9 %



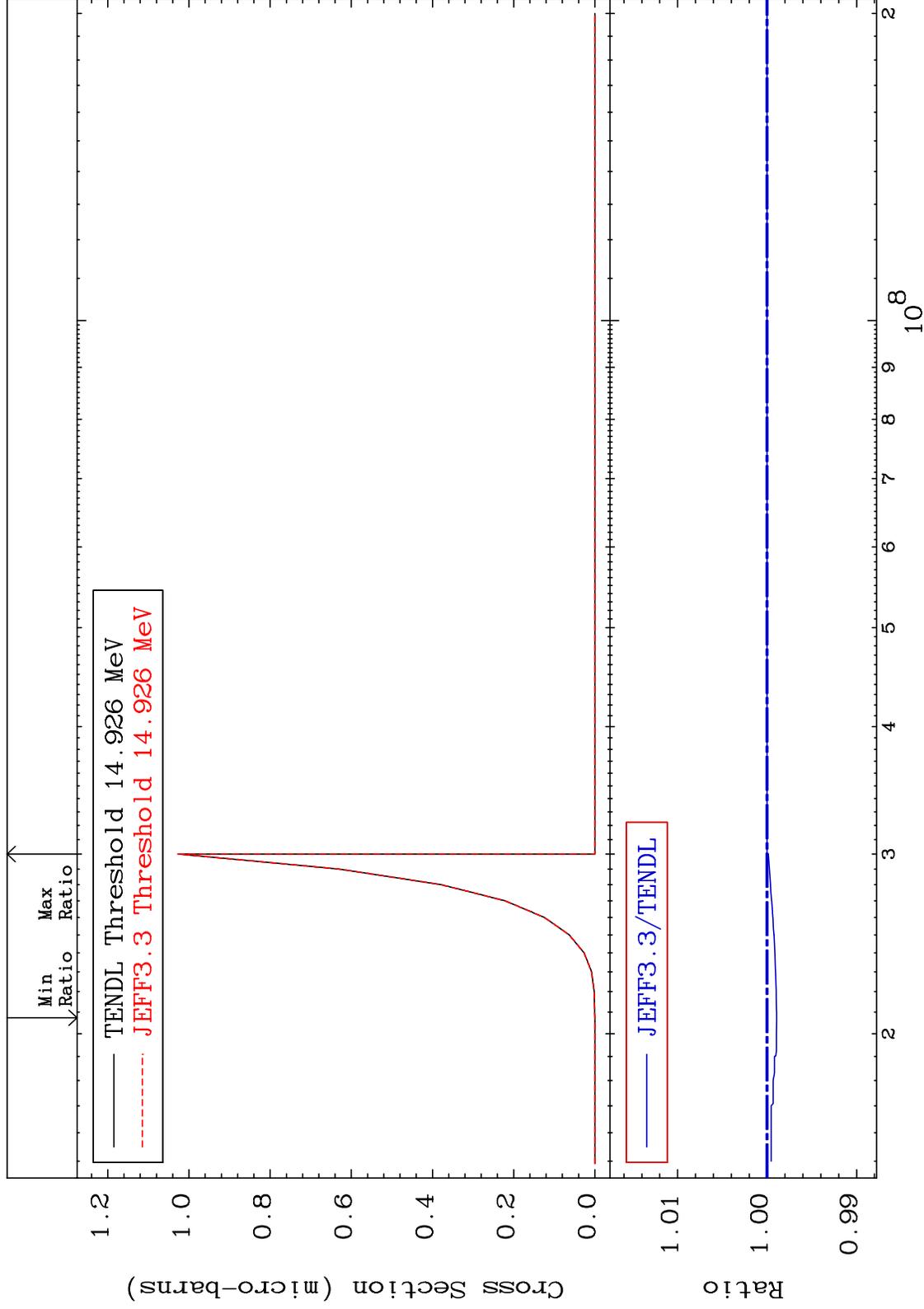
77

MAT 3443

(n,2p) : 32-Ge-79g

34-Se-80

Radionuclide Production Cross Section -0.107 To 0.000 %



78

Incident Energy (eV)

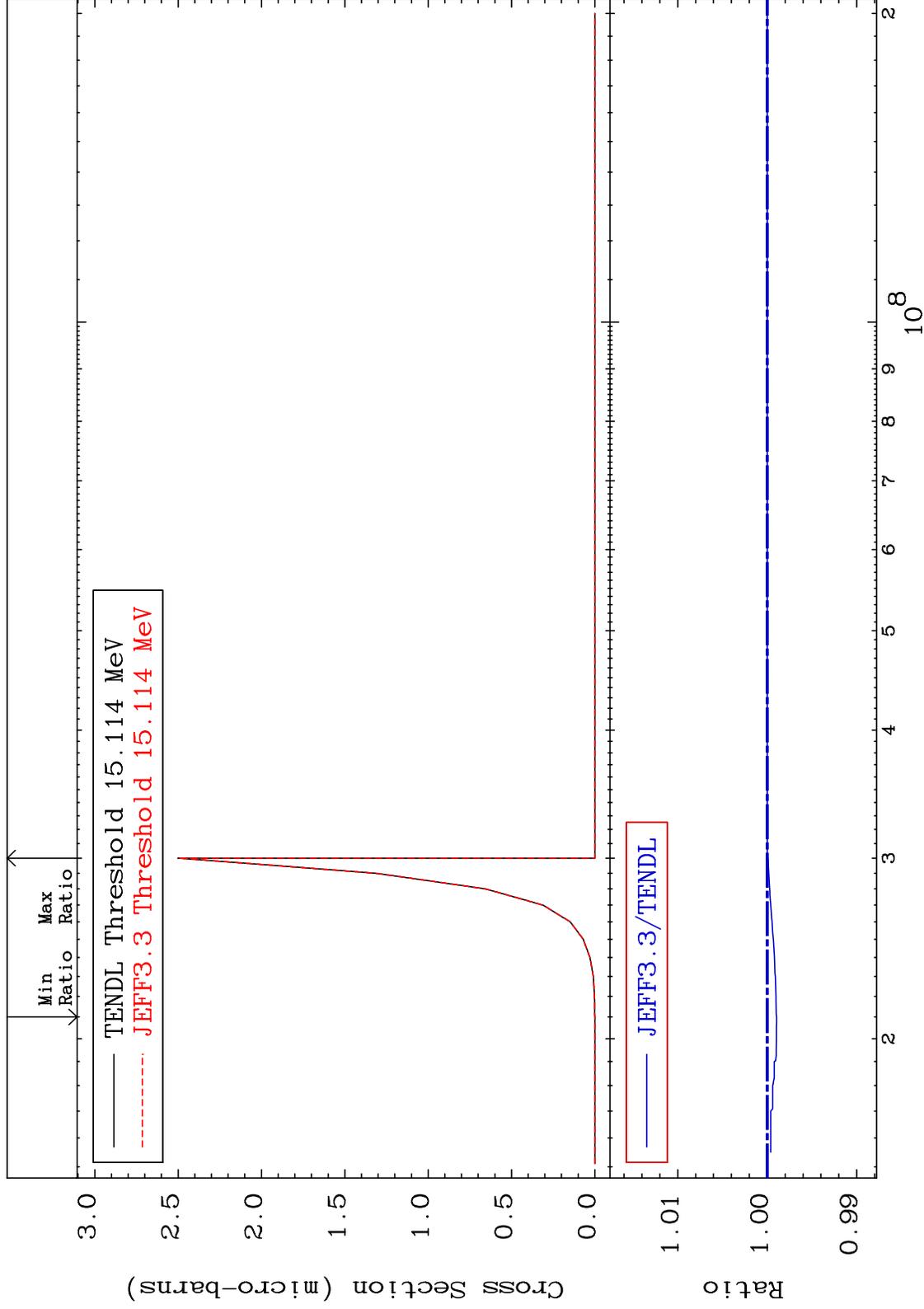
34-Se-80

MAT 3443

(n,2p):32-Ge-79m1

34-Se-80

Radionuclide Production Cross Section -0.104 To 0.000 %



79

Incident Energy (eV)

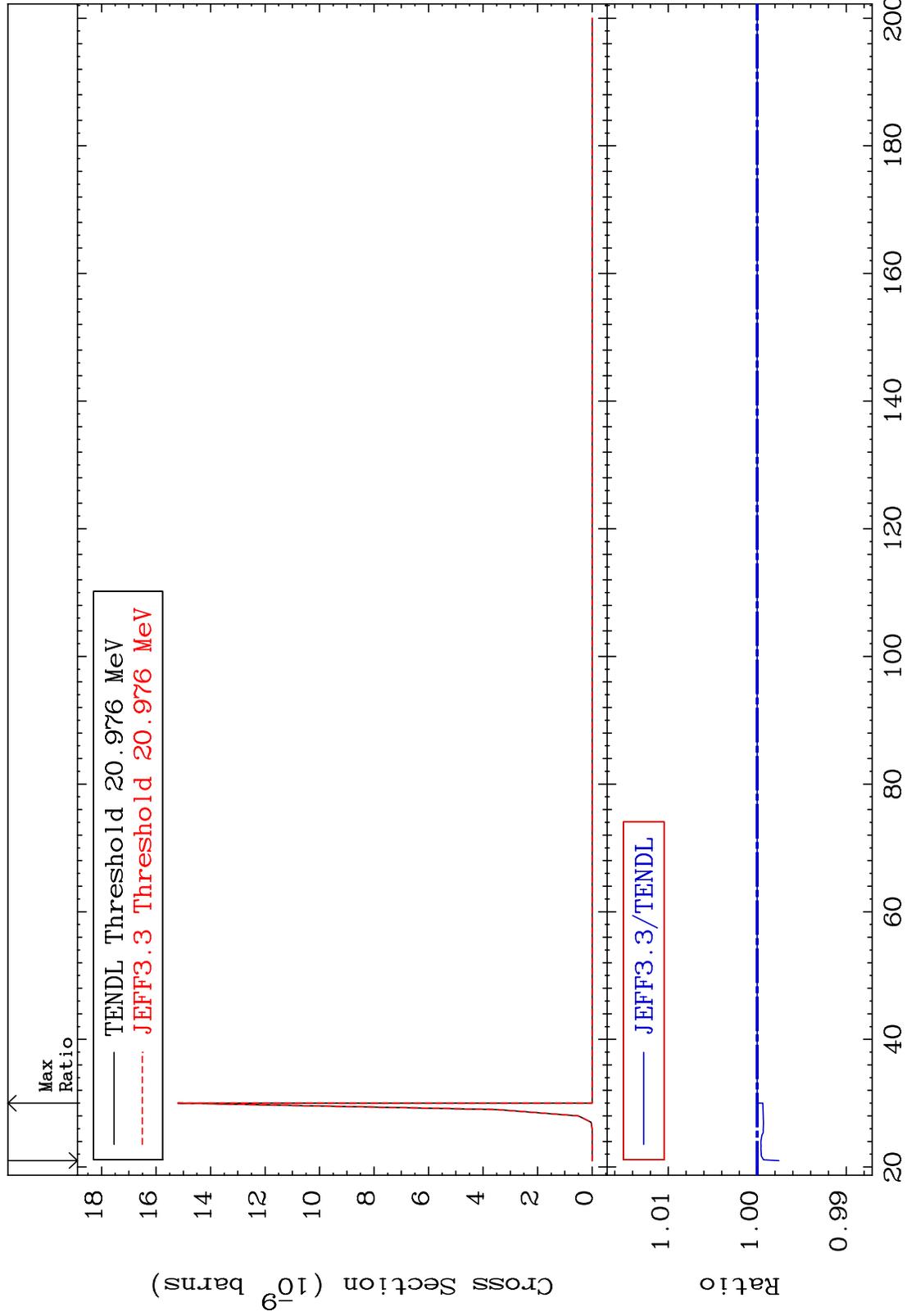
34-Se-80

MAT 3443

(n,p) t:32-Ge-77g

34-Se-80

Radionuclide Production Cross Section -0.244 To 0.000 %



80

Incident Energy (MeV)

34-Se-80

MAT 3443

(n,p) t:32-Ge-77m1

34-^{Se}-80

Radionuclide Production Cross Section -0.090 To 0.000 %

