

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

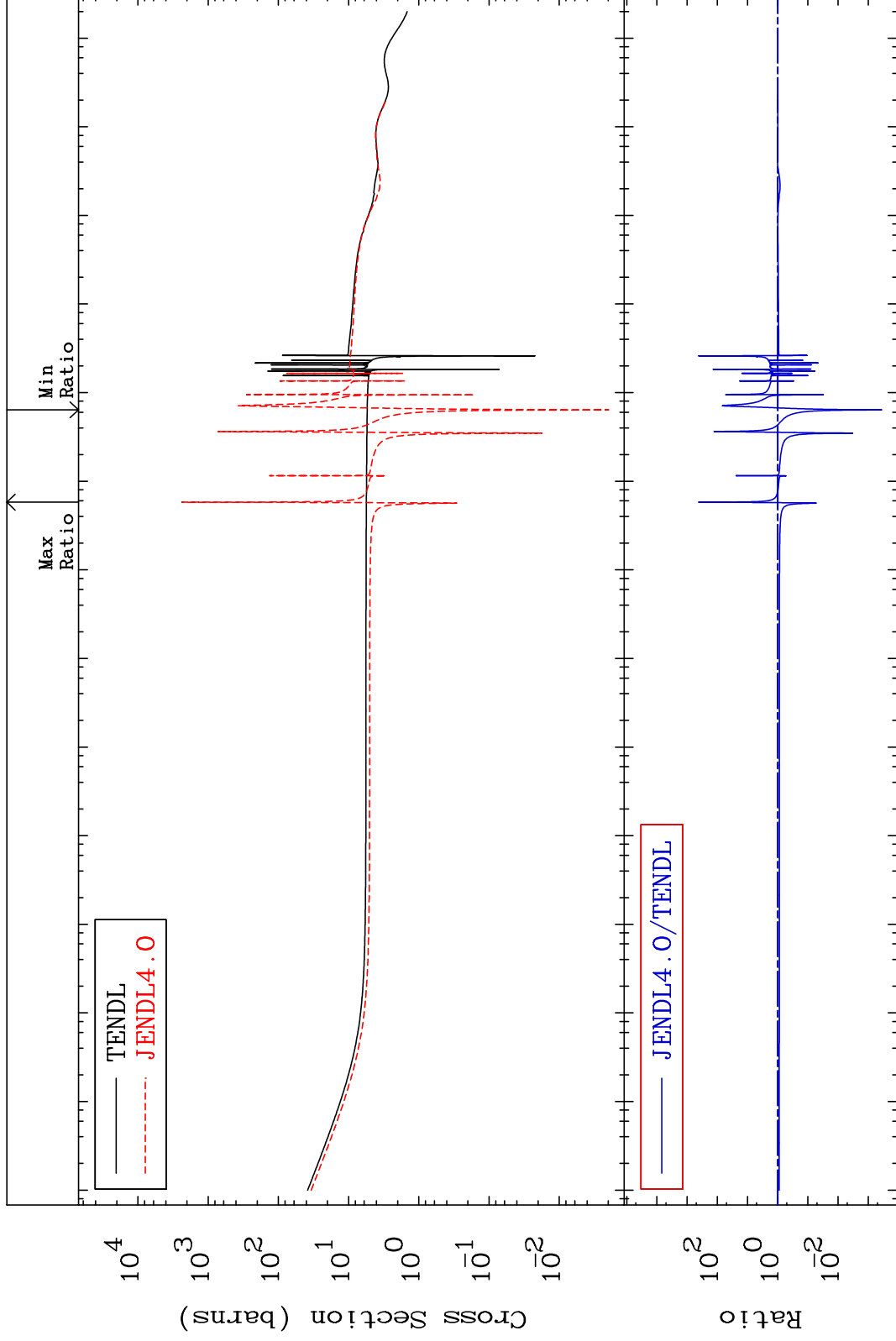
MAT 3449

Total

34-Se-82

Cross Section

-99.96 To 9999. %



Incident Energy (eV)

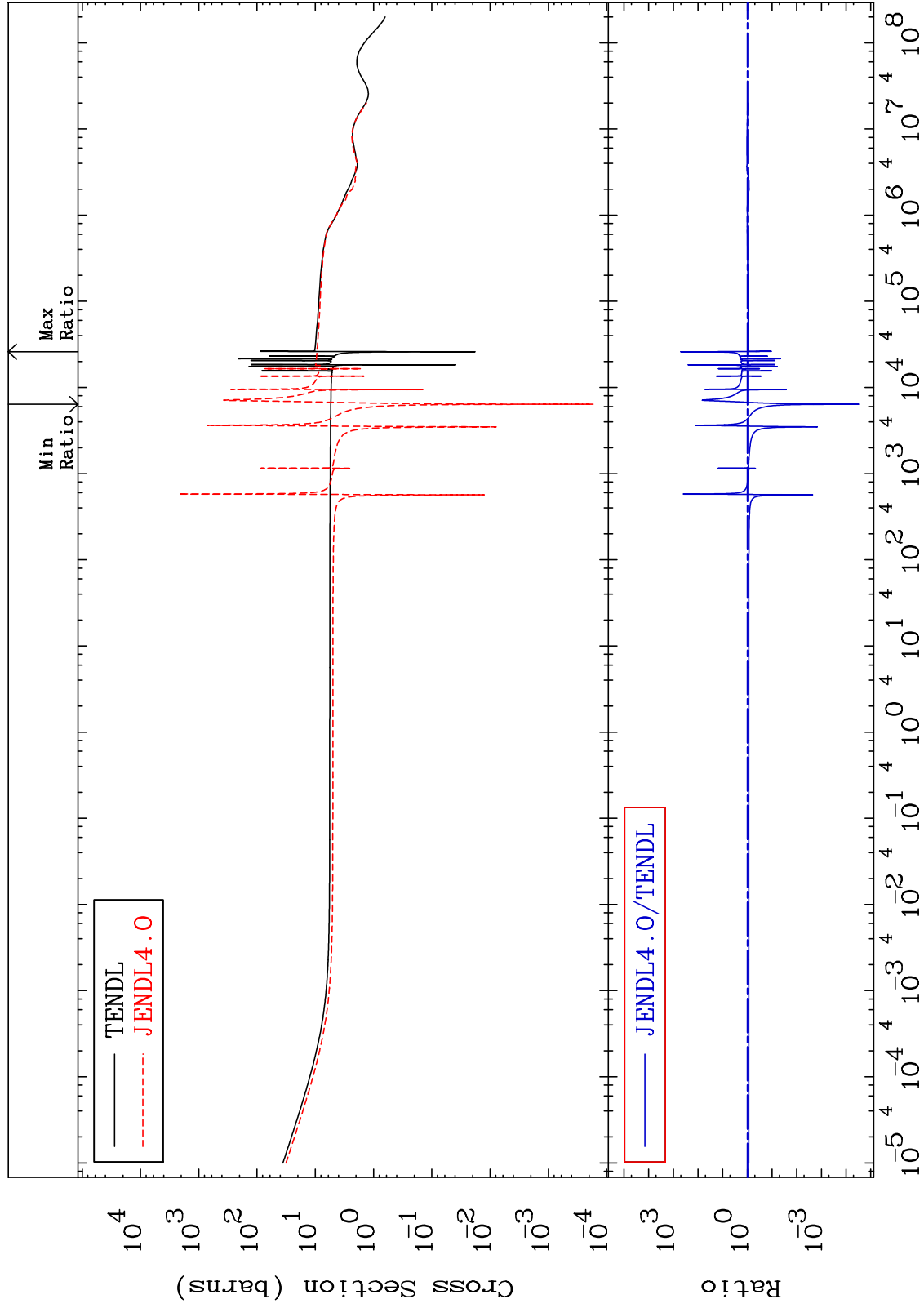
34-Se-82

1

MAT 3449

Elastic
Cross Section

34-Se-82
-100.0 To 9999. %



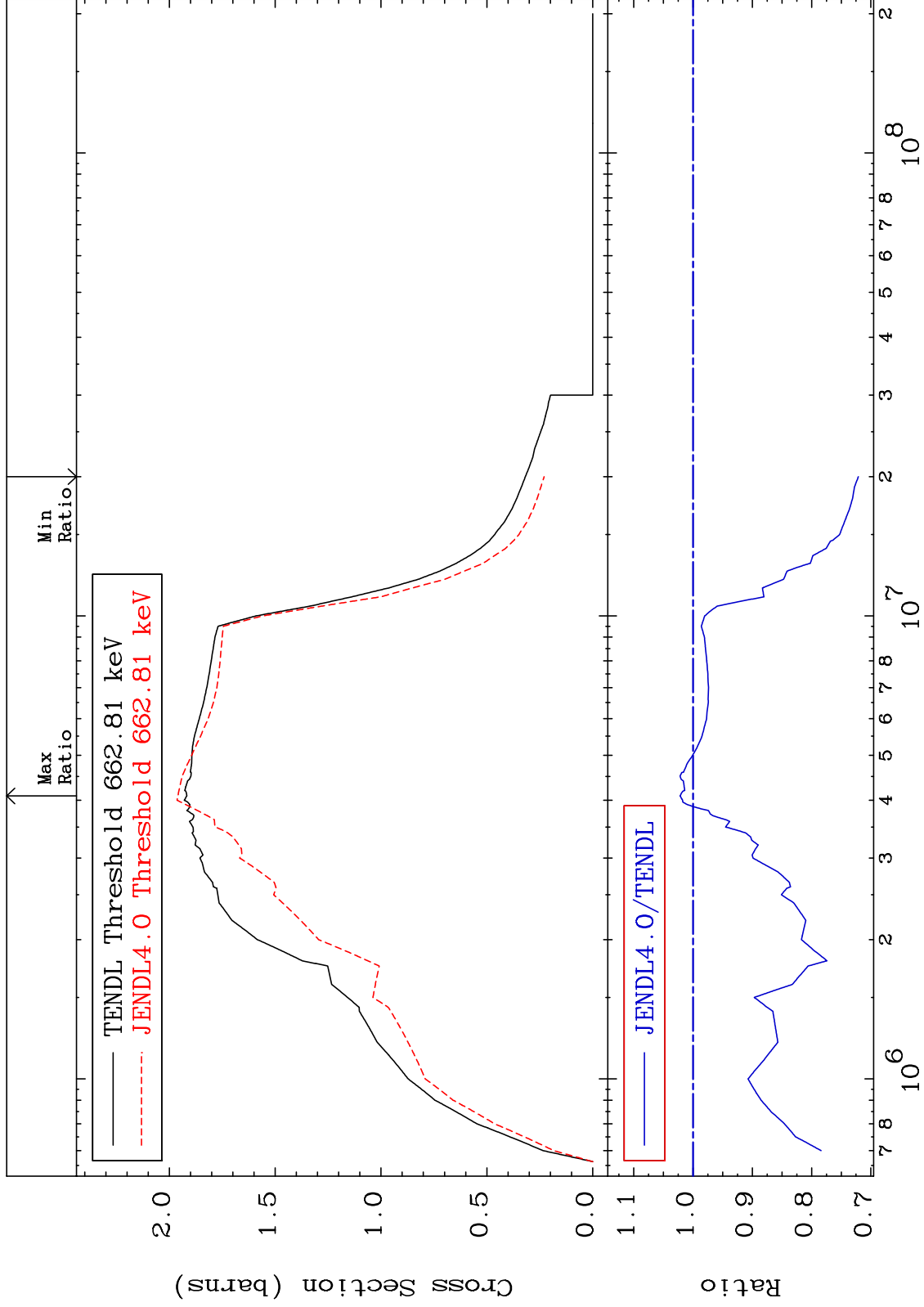
MAT 3449

Inelastic

³⁴Se-82

Cross Section

-27.90 To 2.194 %

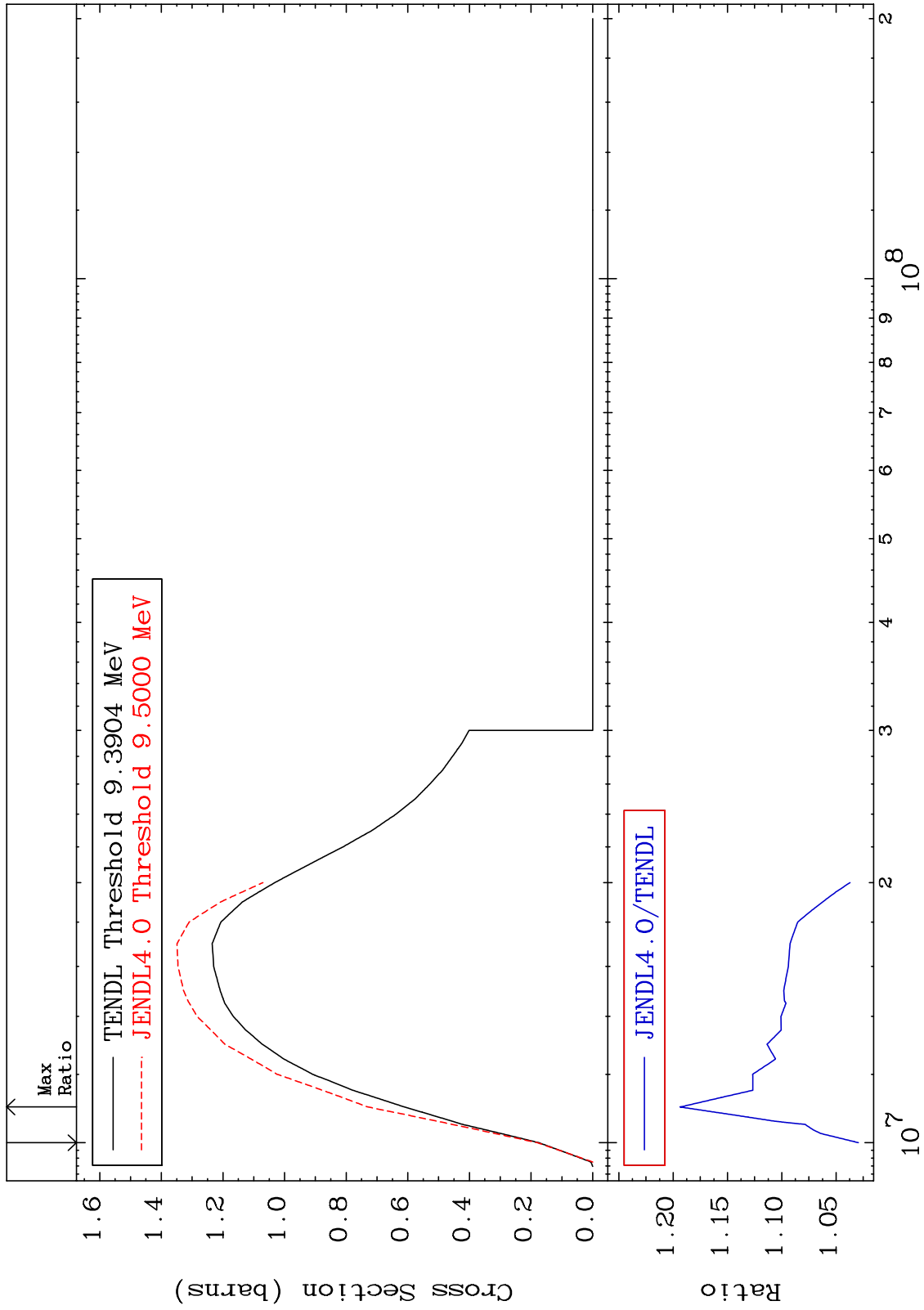


3

34-^{Se}-82

34-^{Se}-82

MAT 3449 (n,2n) Cross Section 34-Se-82 To 19.37 %
2.943



4 Incident Energy (eV) 34-Se-82

MAT 3449

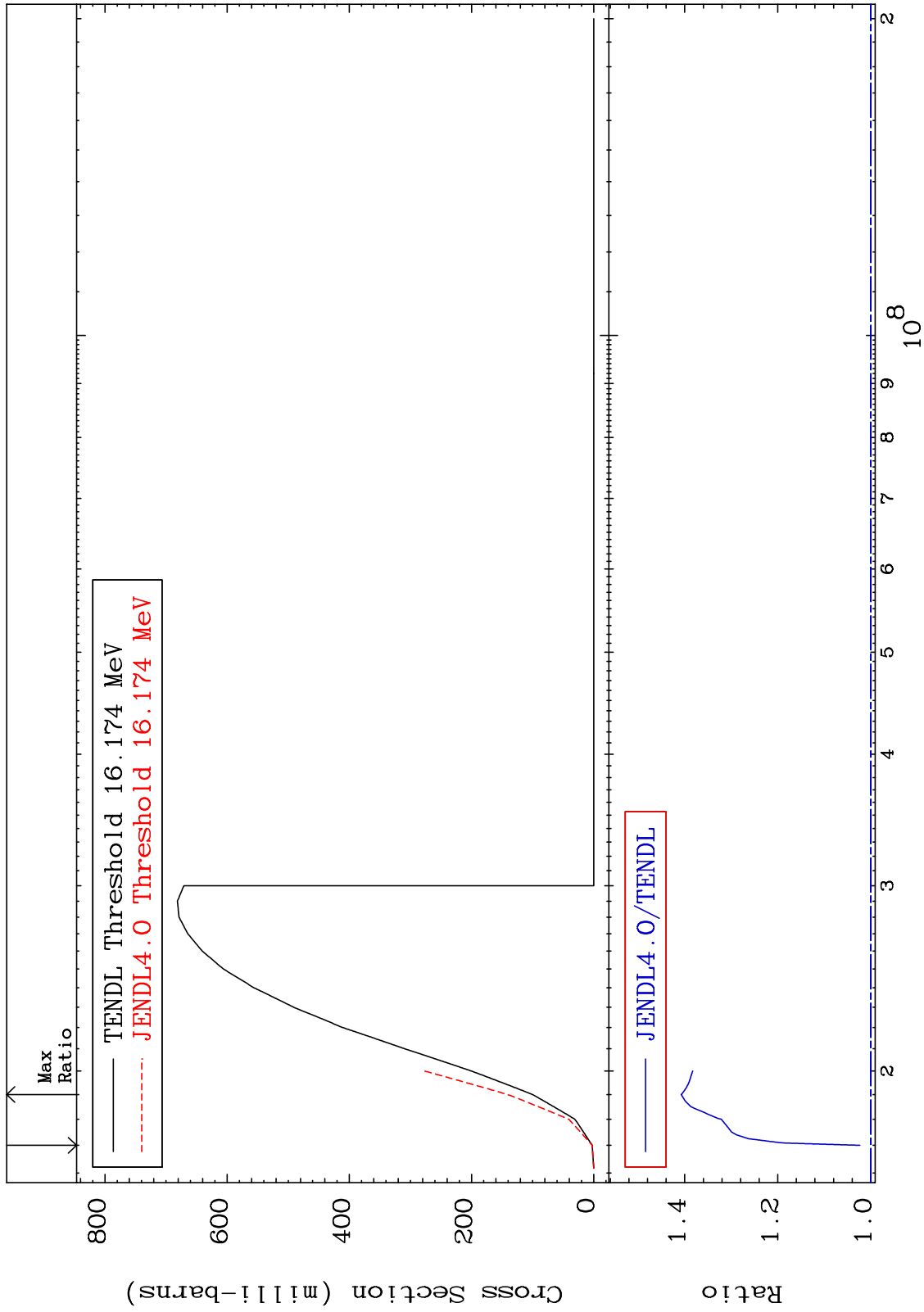
(n,3n)

³⁴Se-82

Cross Section

2.332

To 40.76 %



5

Incident Energy (eV)

³⁴Se-82

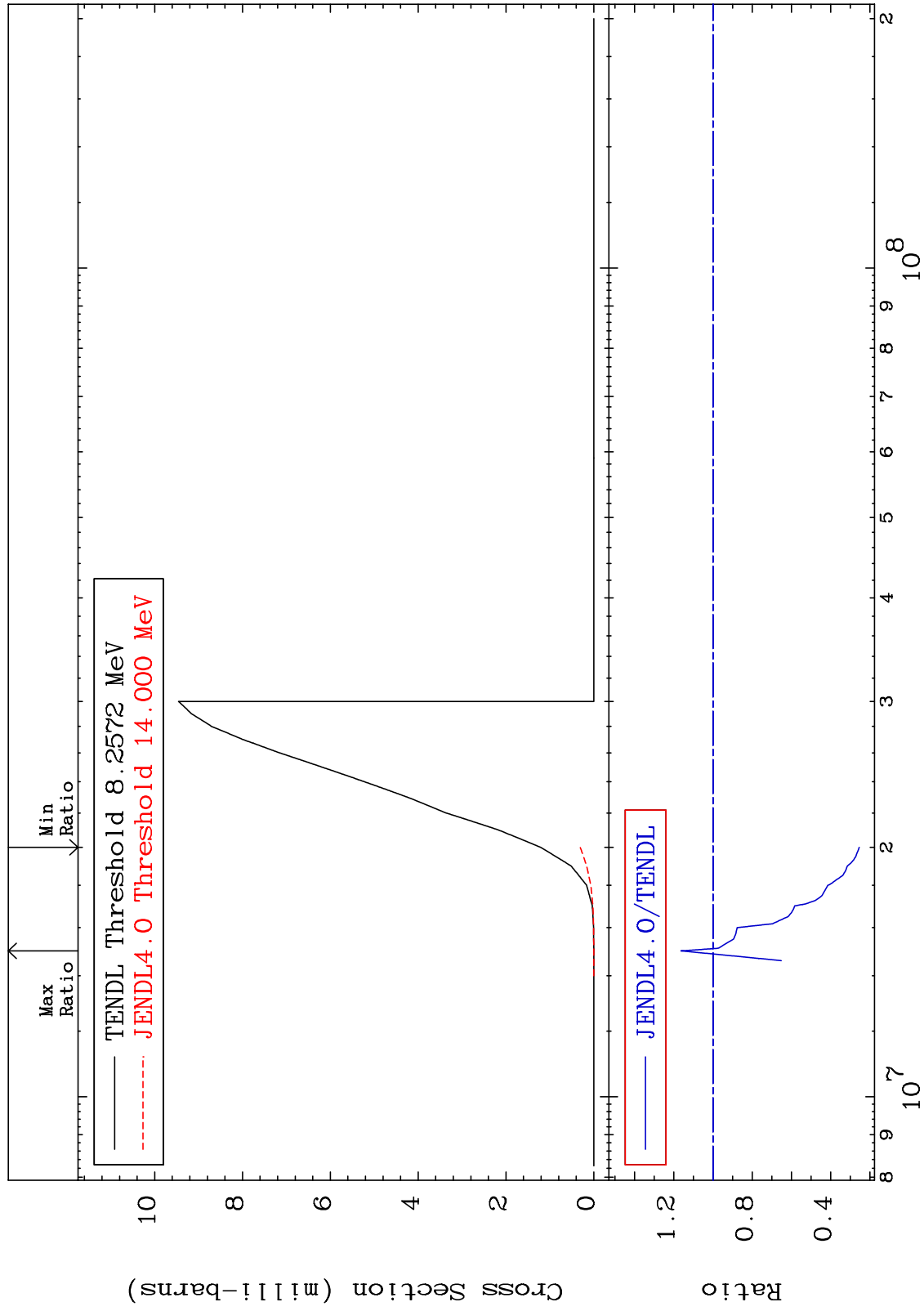
MAT 3449

(n,n') α

34-Se-82

Cross Section

-74.58 To 16.26 %

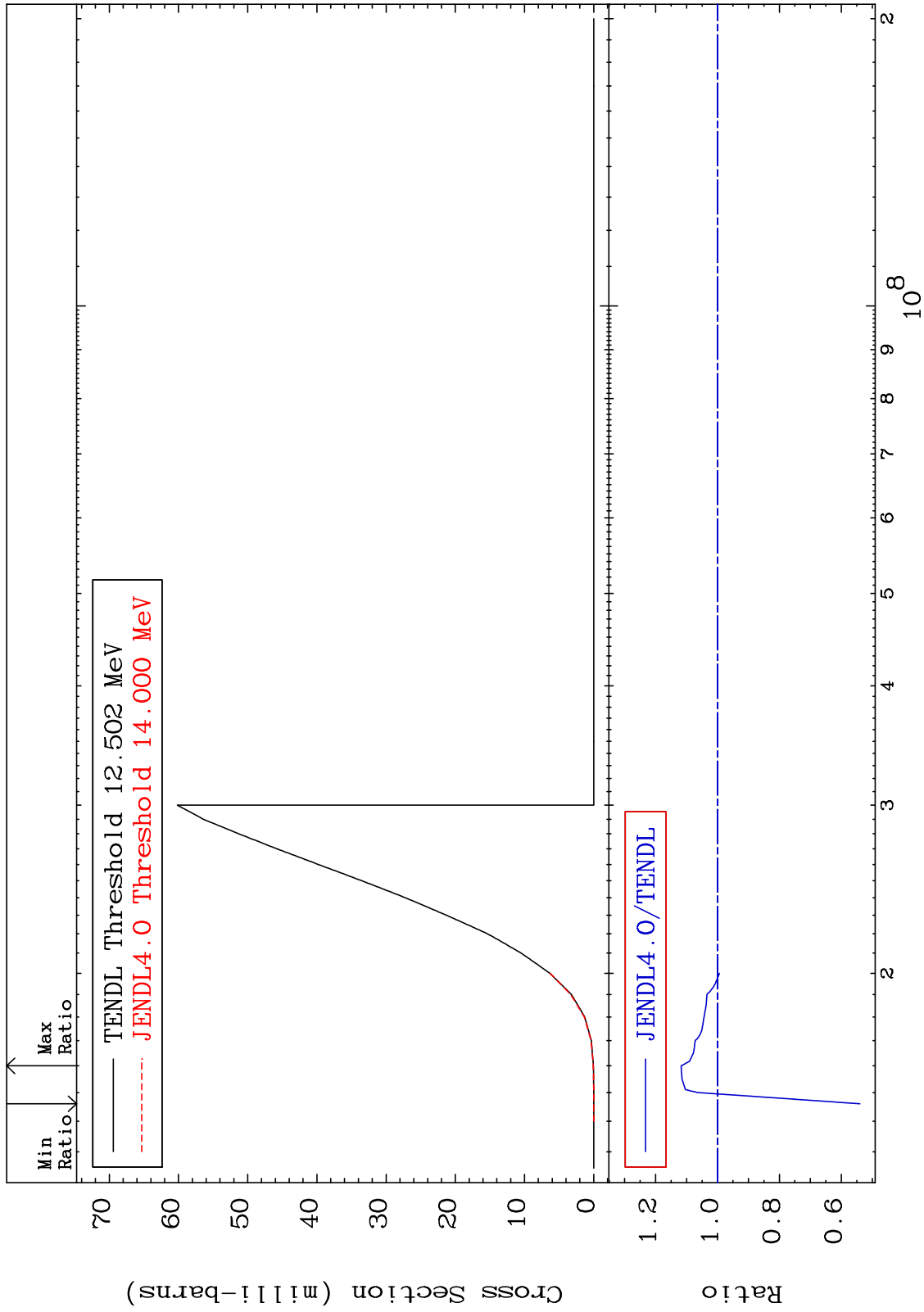


34-Se-82

MAT 3449

(n,n') p
Cross Section

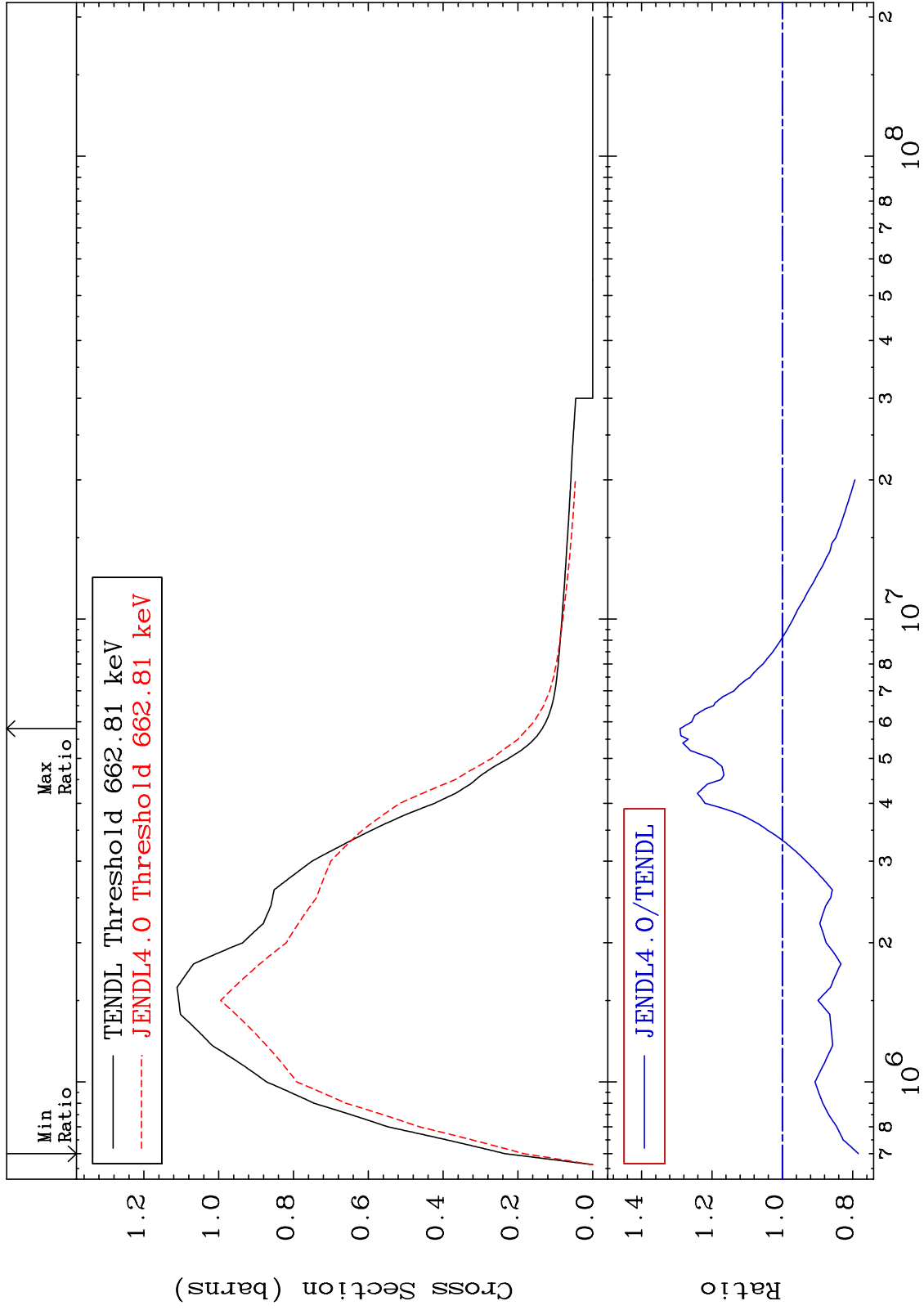
34-Se-82
-46.02 To 11.72 %



MAT 3449

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

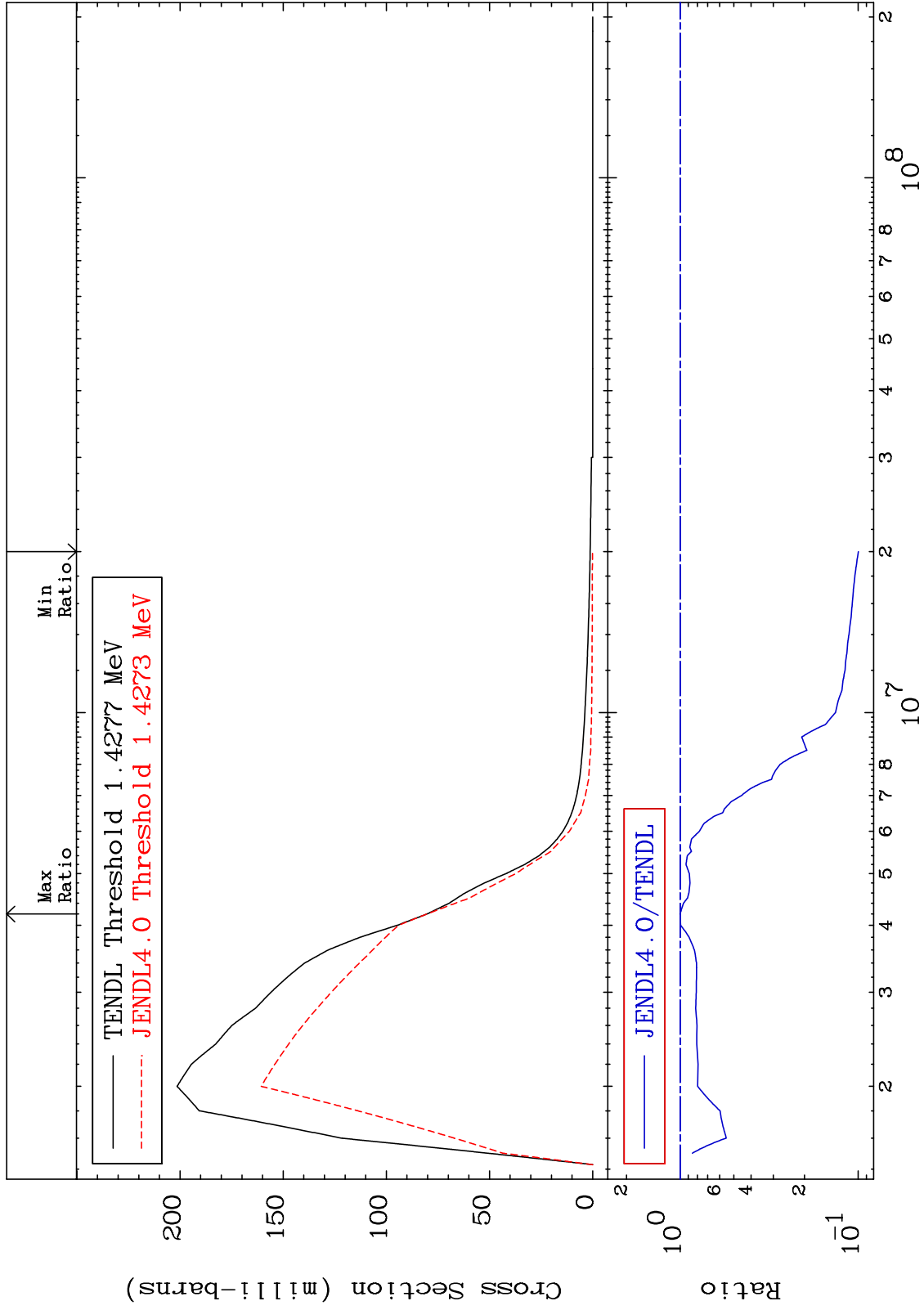
34-Se-82
-21.60 To 29.08 %



MAT 3449

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

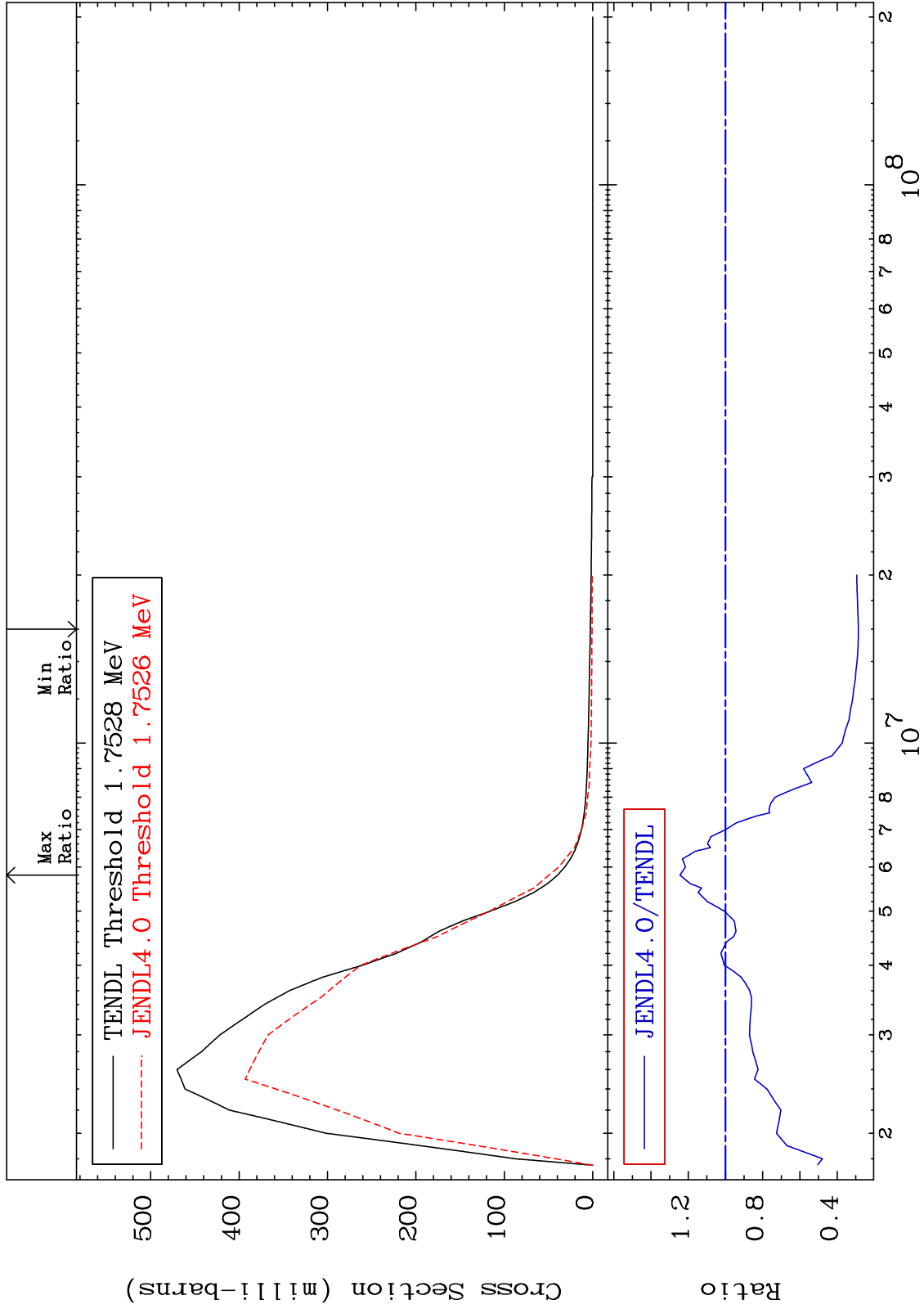
34-Se-82
-90.03 To 0.118 %



MAT 3449

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

34-Se-82
-71.41 To 24.41 %



10

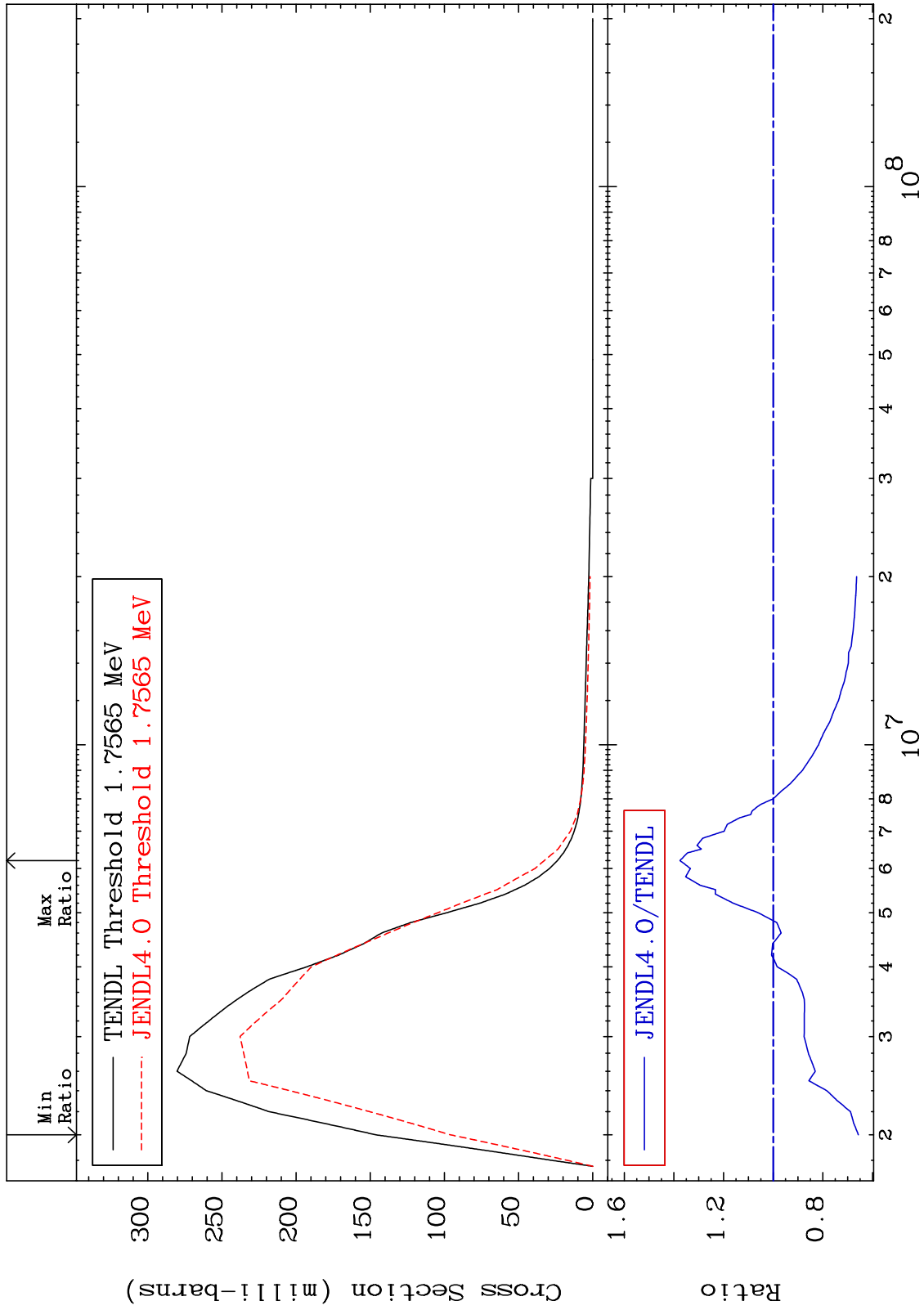
Incident Energy (eV)

34-Se-82

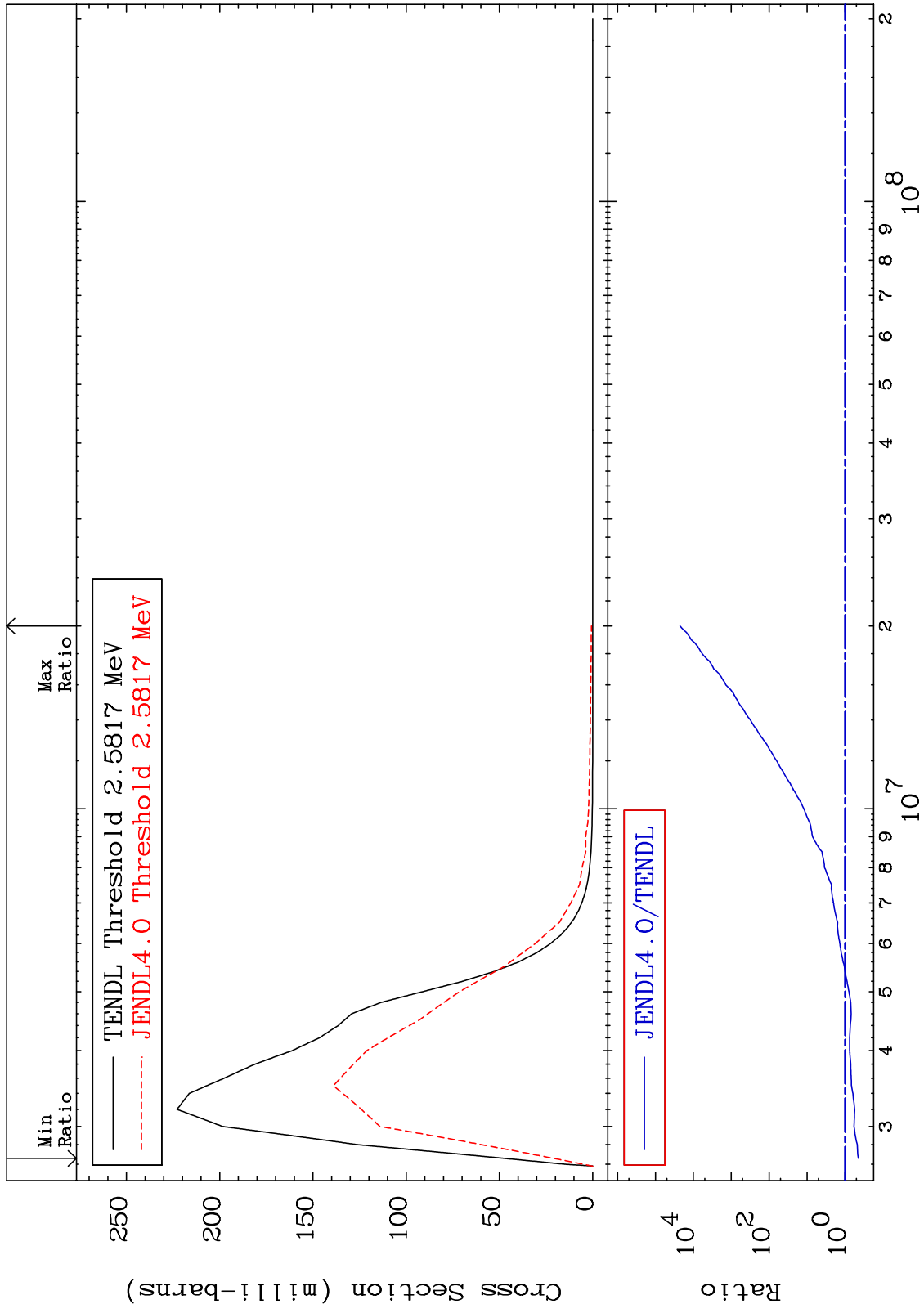
MAT 3449

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

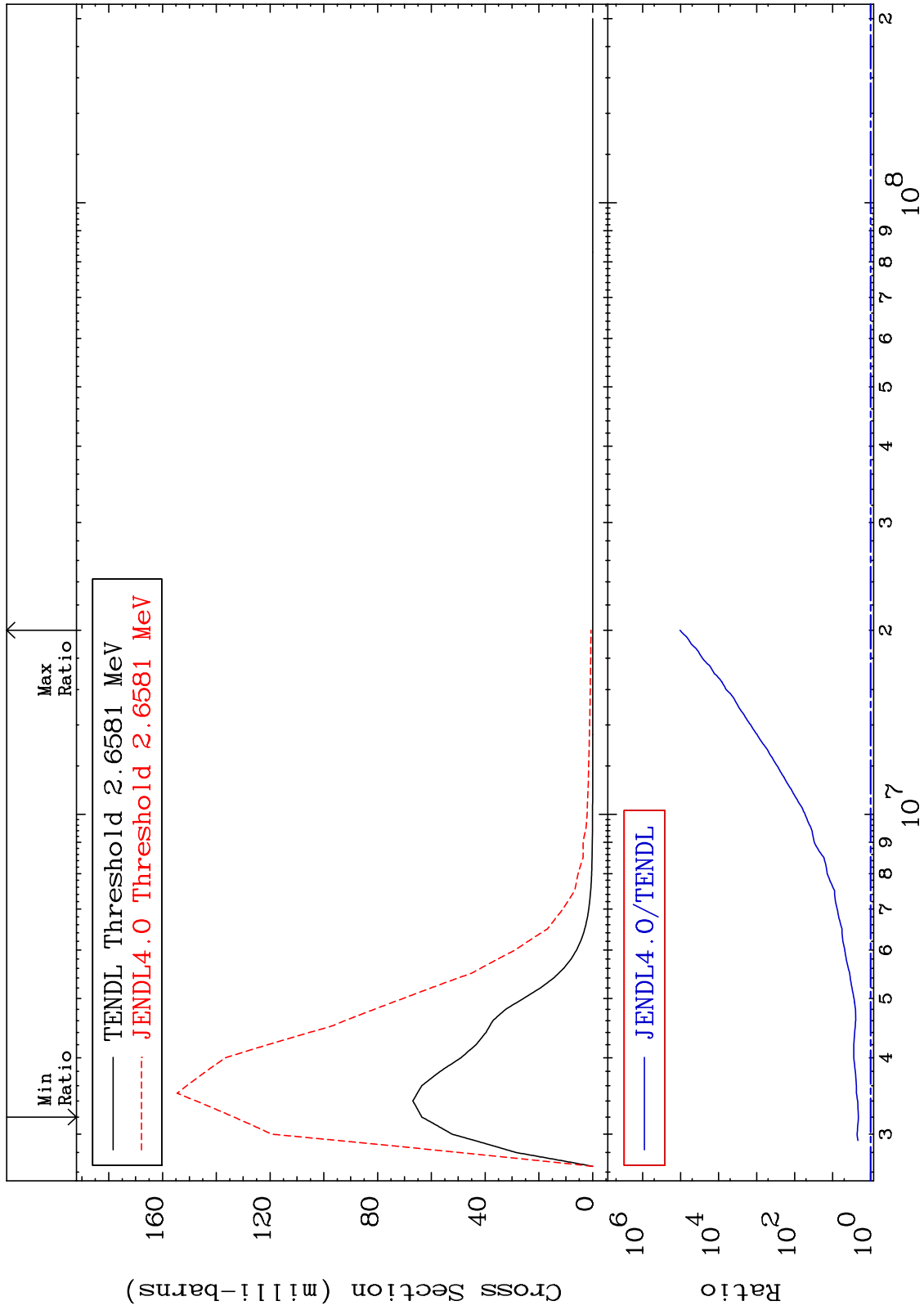
34-Se-82
-34.32 To 37.54 %



MAT 3449 MT= 55 (n,n') Level Cross Section 34-Se-82
 -55.83 To 9999. %



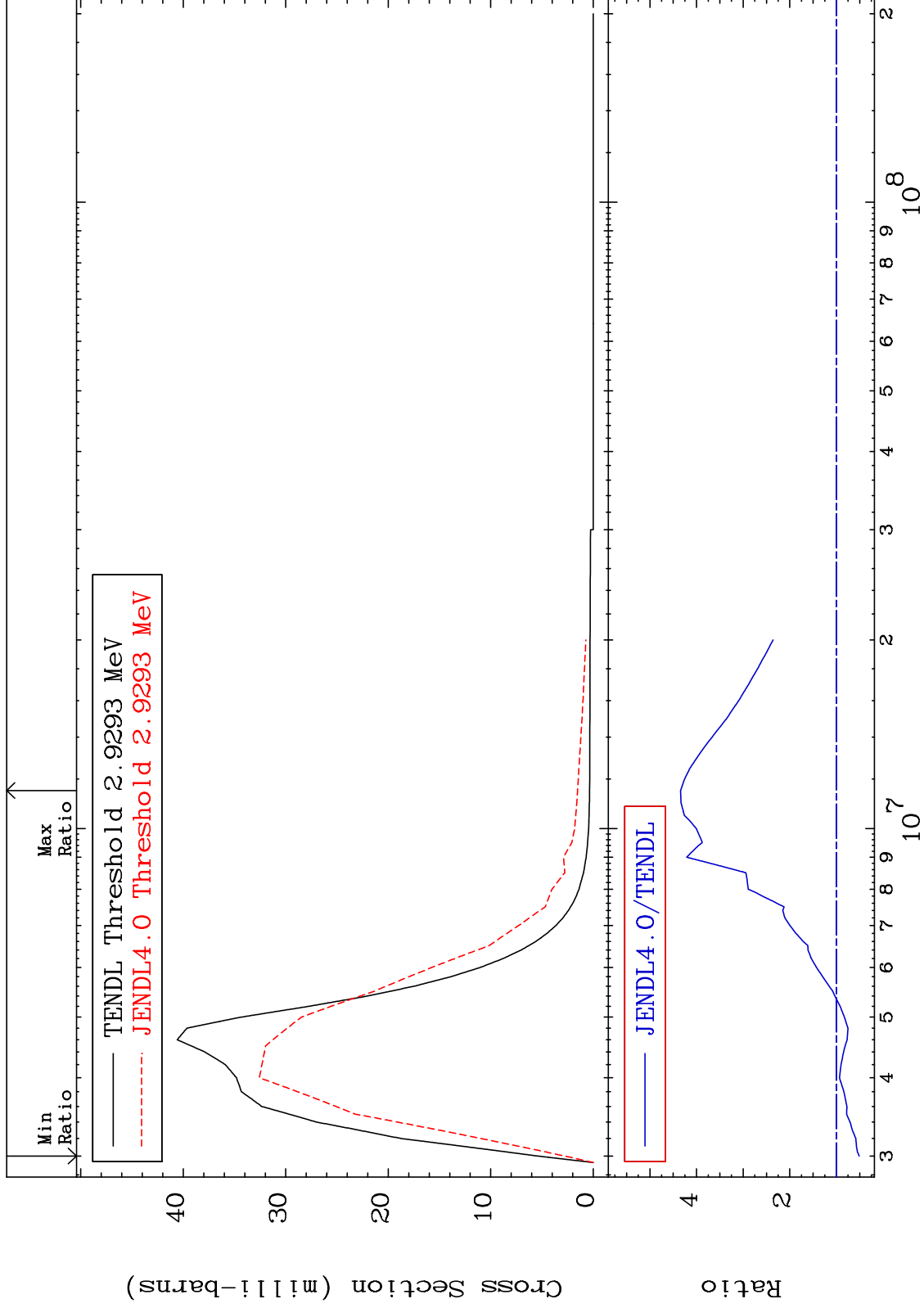
MAT 3449 MT= 56 (n,n') Level Cross Section 34-Se-82 To 9999. %
 110.0



MAT 3449

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

34-Se-82
-48.75 To 334.1 %



14

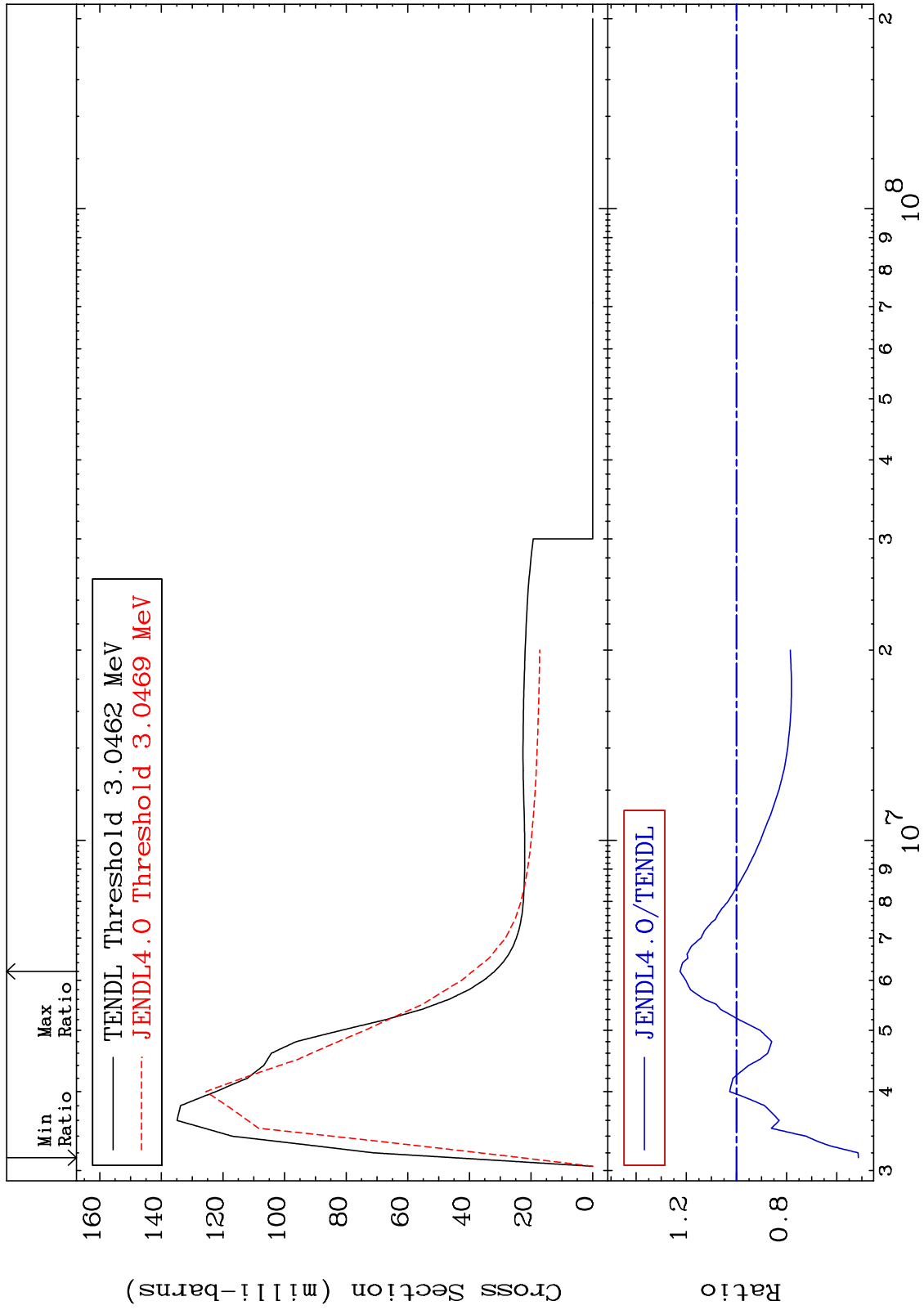
Incident Energy (eV)

34-Se-82

MAT 3449

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

34-Se-82
-48.65 To 22.51 %



15

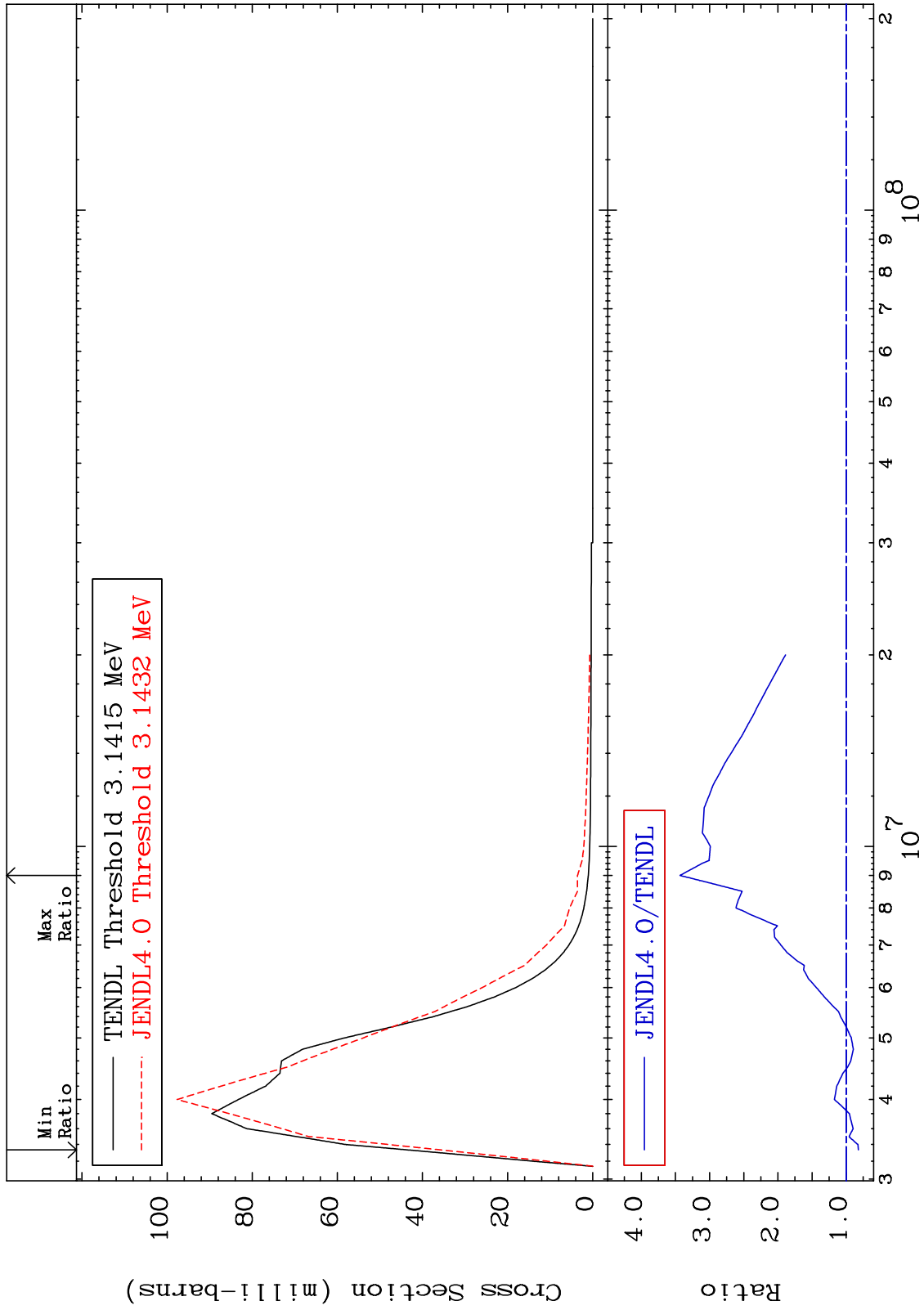
Incident Energy (eV)

34-Se-82

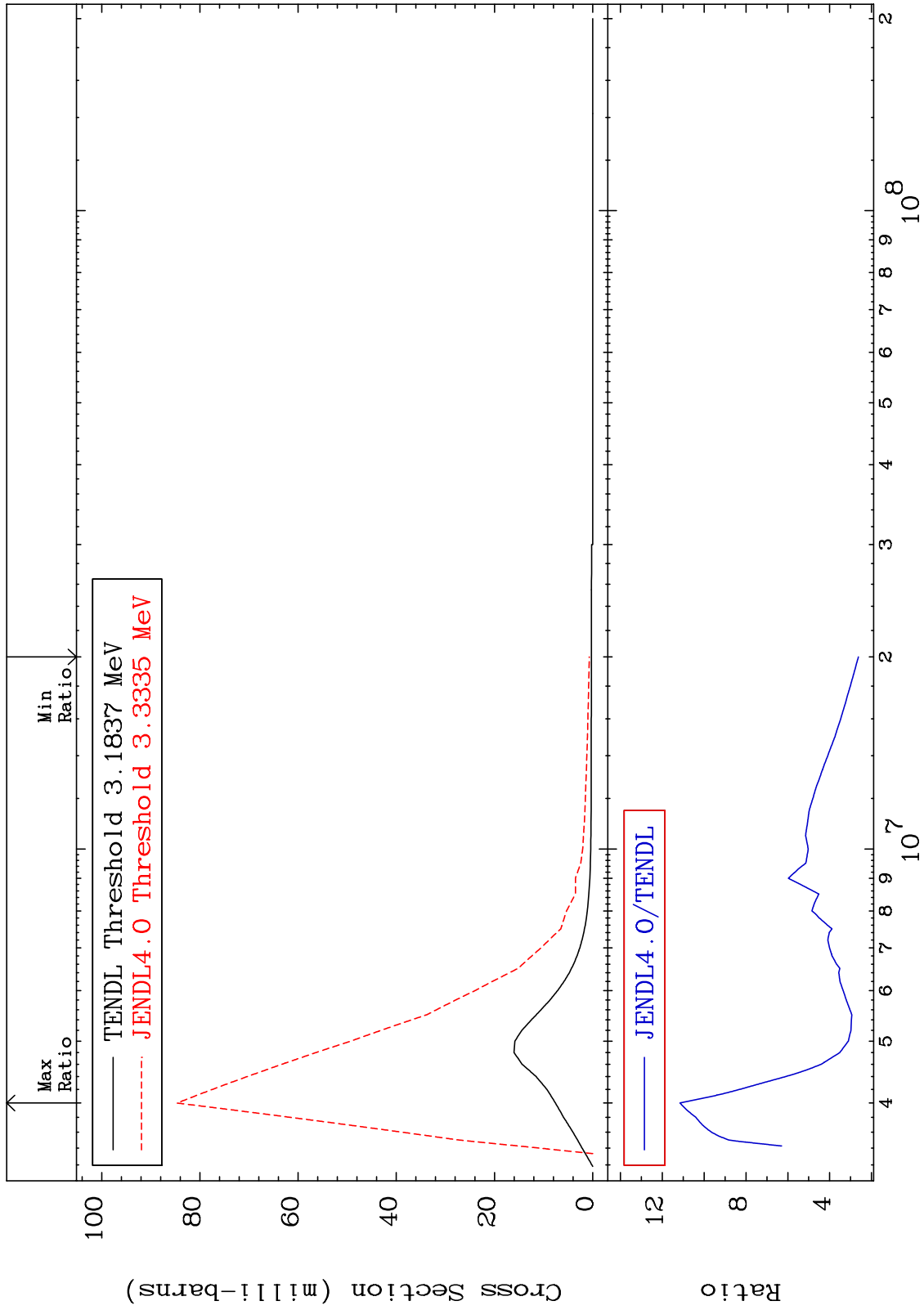
MAT 3449

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

34-Se-82
-17.95 To 243.3 %



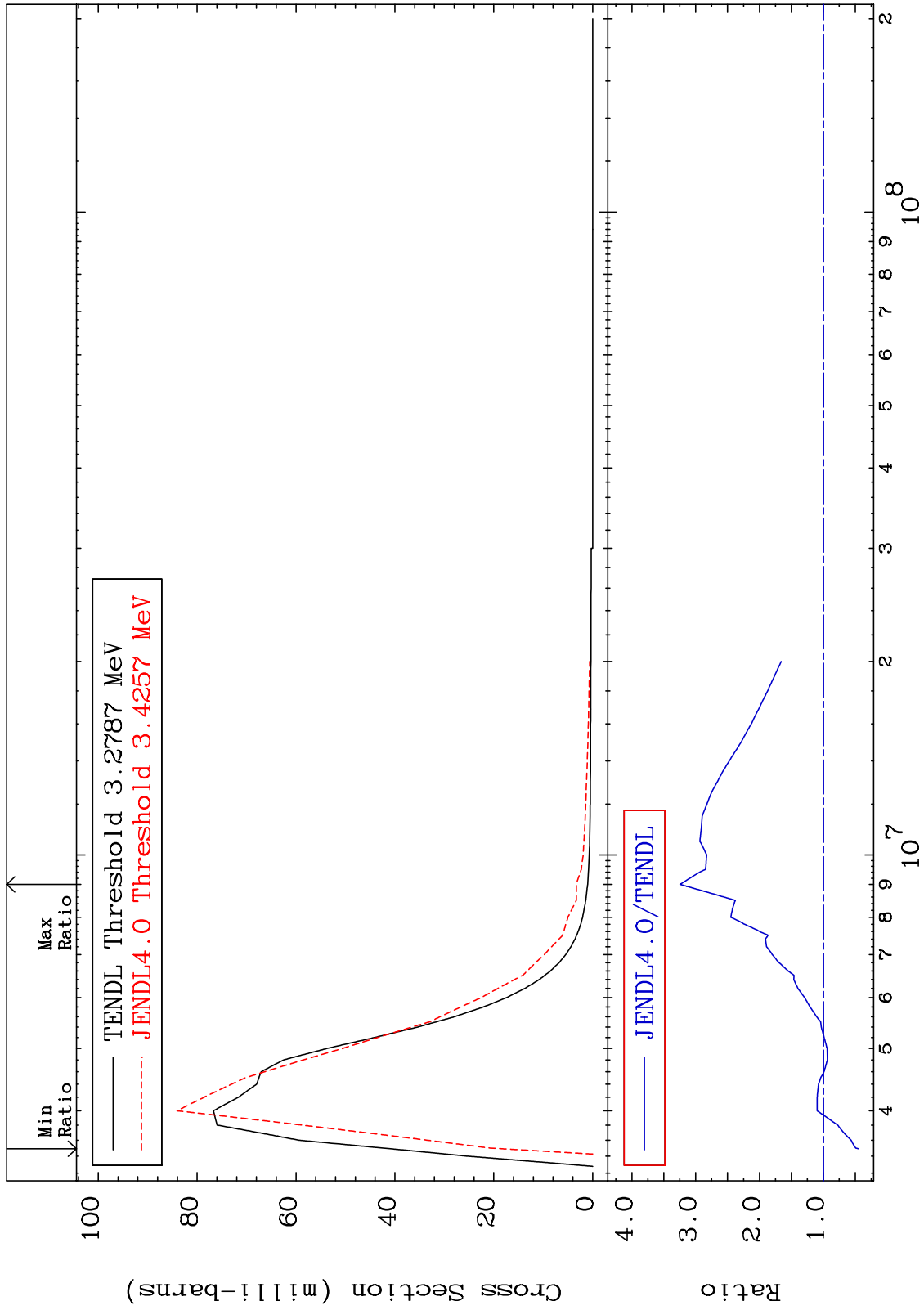
MAT 3449 MT= 60 (n,n') Level Cross Section 34-Se-82 162.6 To 1015. %



MAT 3449

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

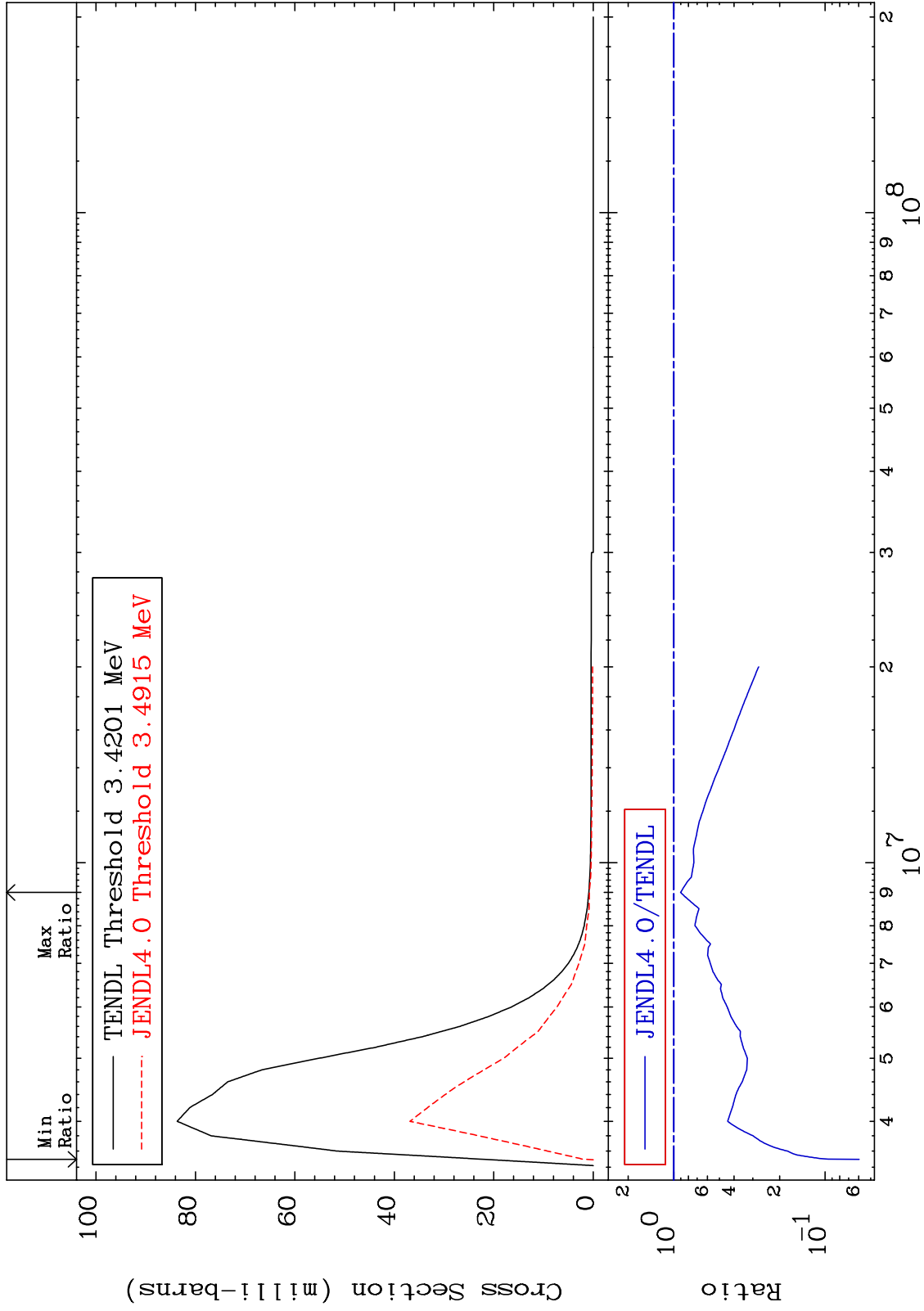
34-Se-82
-55.01 To 224.6 %



MAT 3449

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

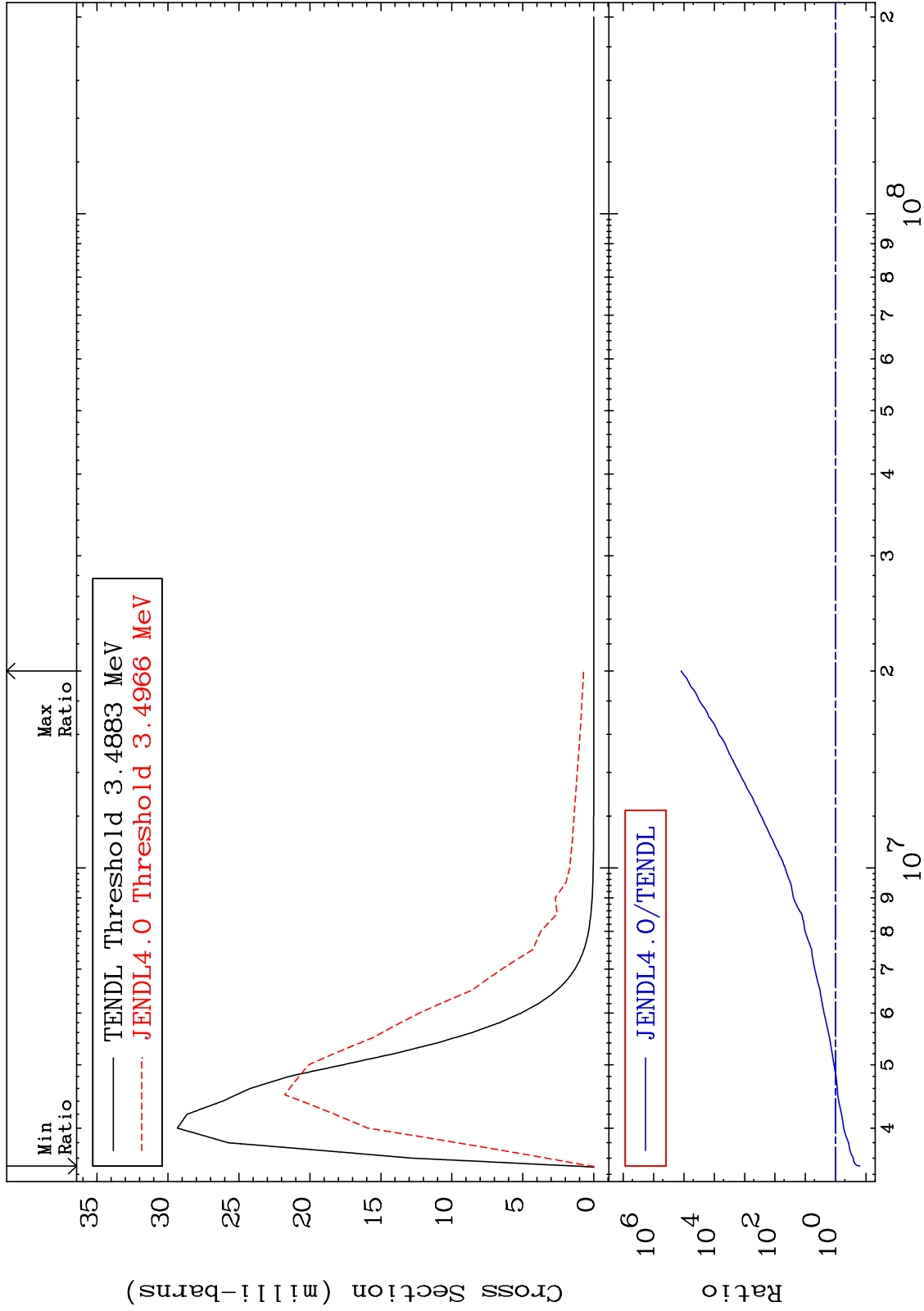
34-Se-82
-94.04 To -9.895%



MAT 3449

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

34-Se-82
-84.16 To 9999. %



20

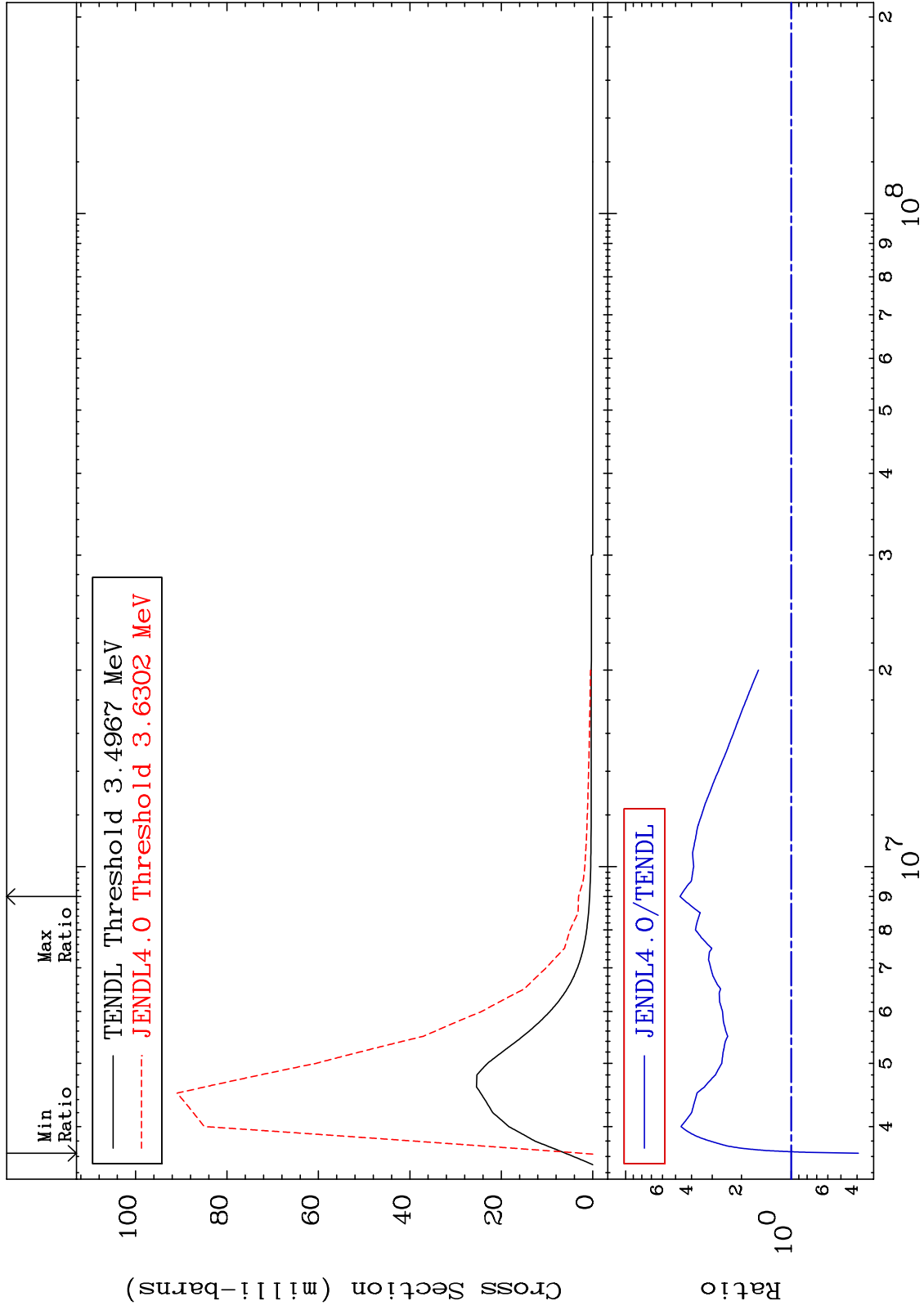
Incident Energy (eV)

34-Se-82

MAT 3449

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

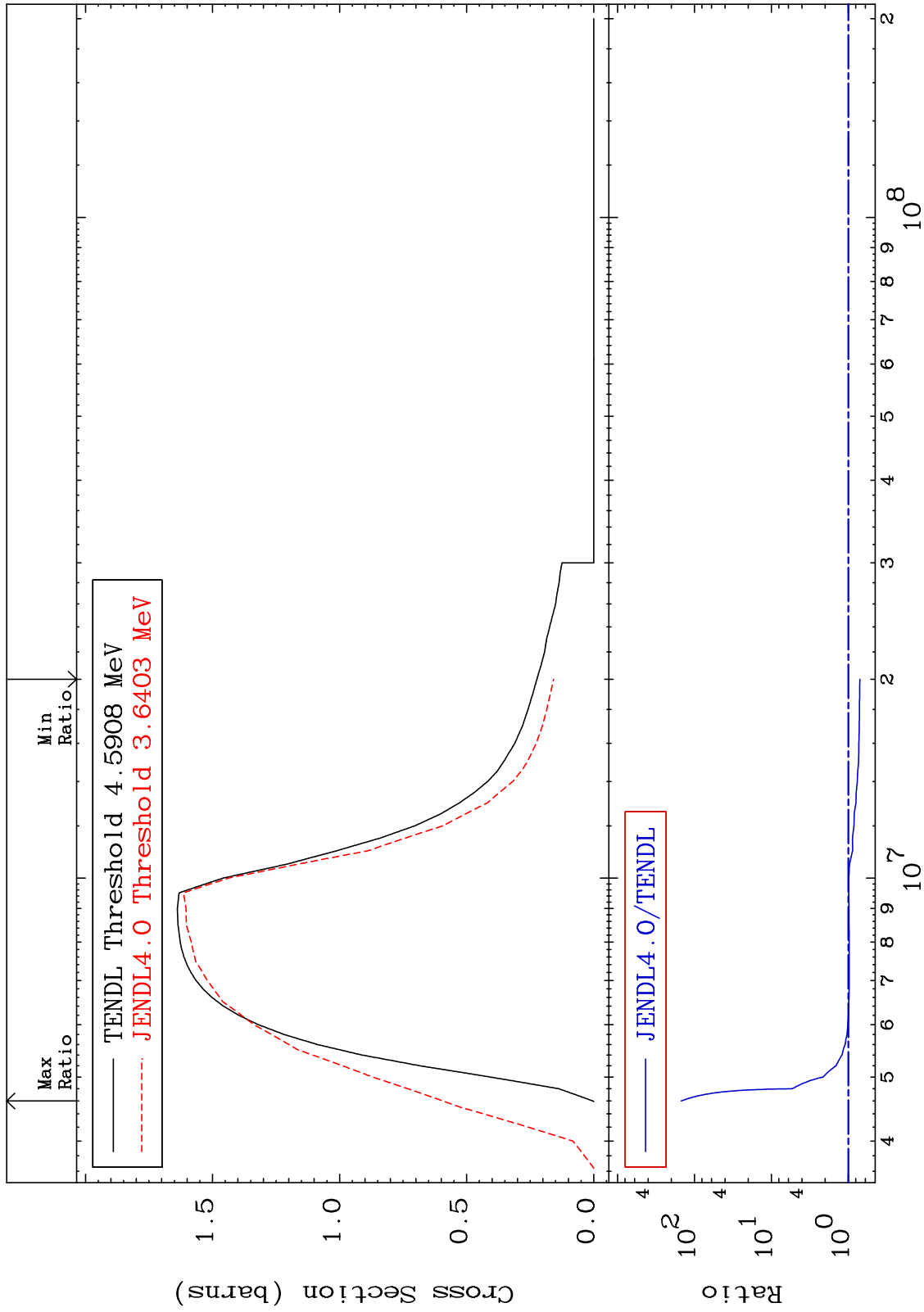
34-Se-82
-60.76 To 369.5 %



MAT 3449

(n,n') Continuum
Cross Section

34-Se-82
-29.42 To 9999. %



22

Incident Energy (eV)

34-Se-82

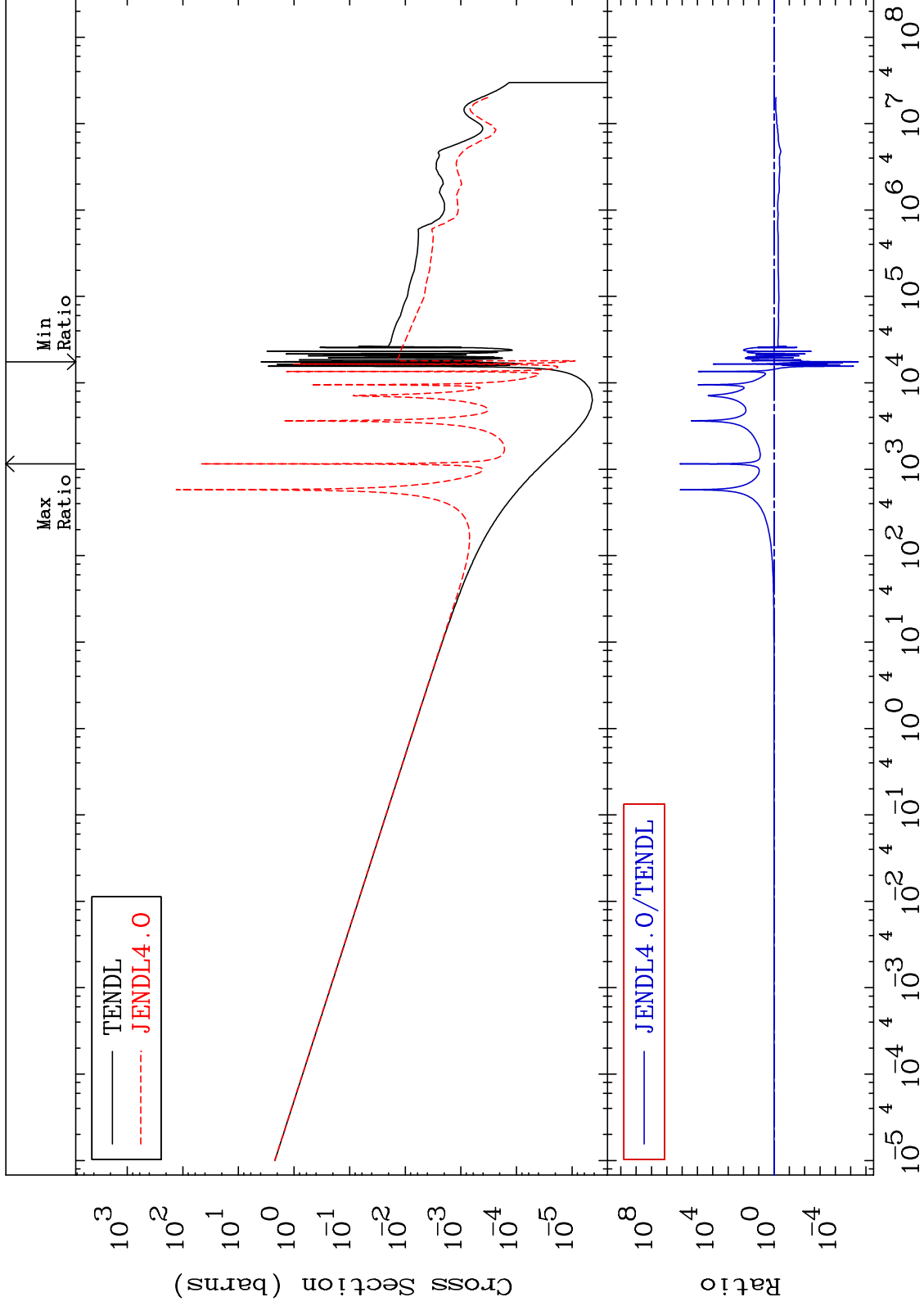
MAT 3449

(n, γ)

34-Se-82

Cross Section

-100.0 To 9999. %



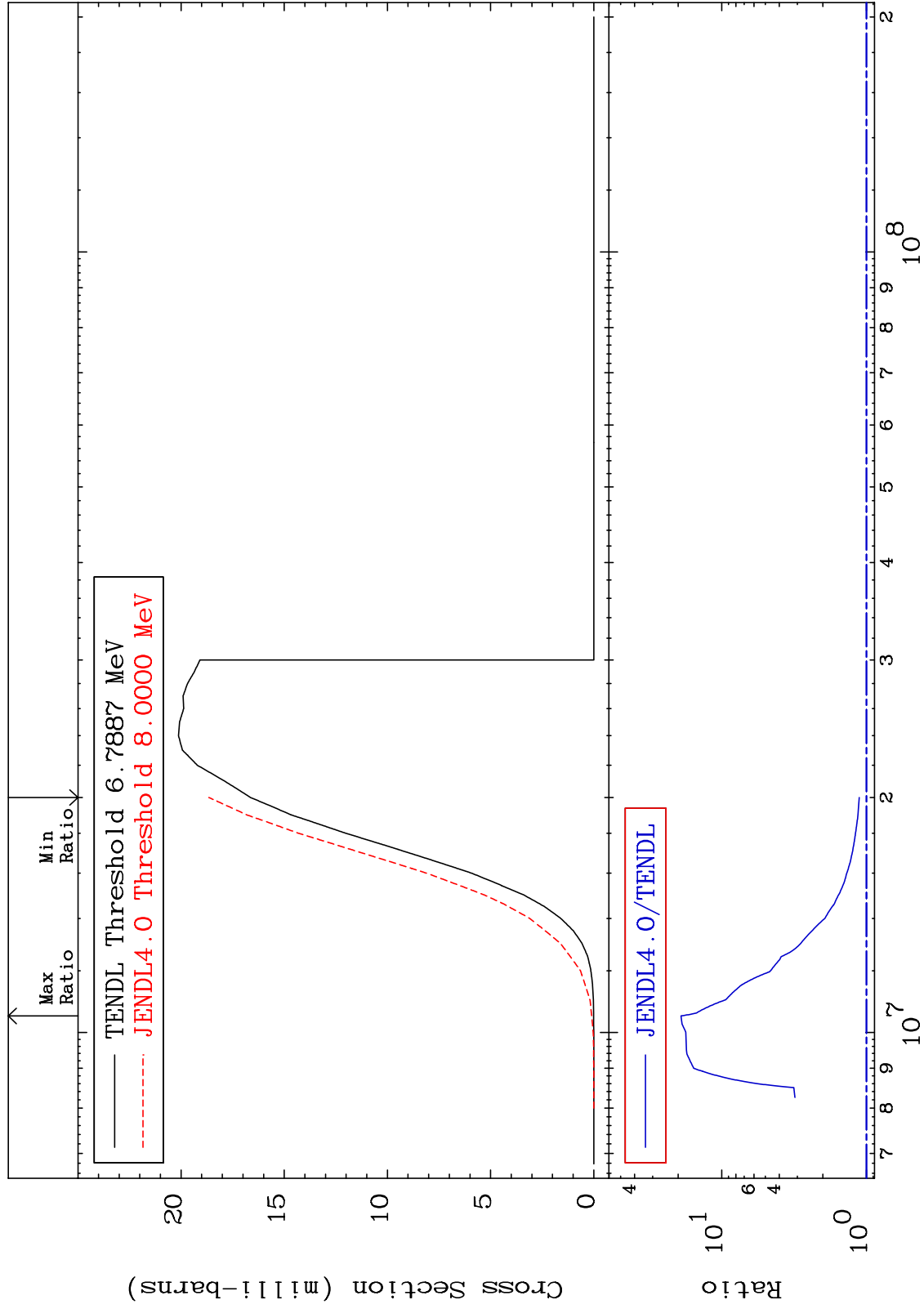
MAT 3449

(n,p)

34-Se-82

Cross Section

12.18 To 1811. %



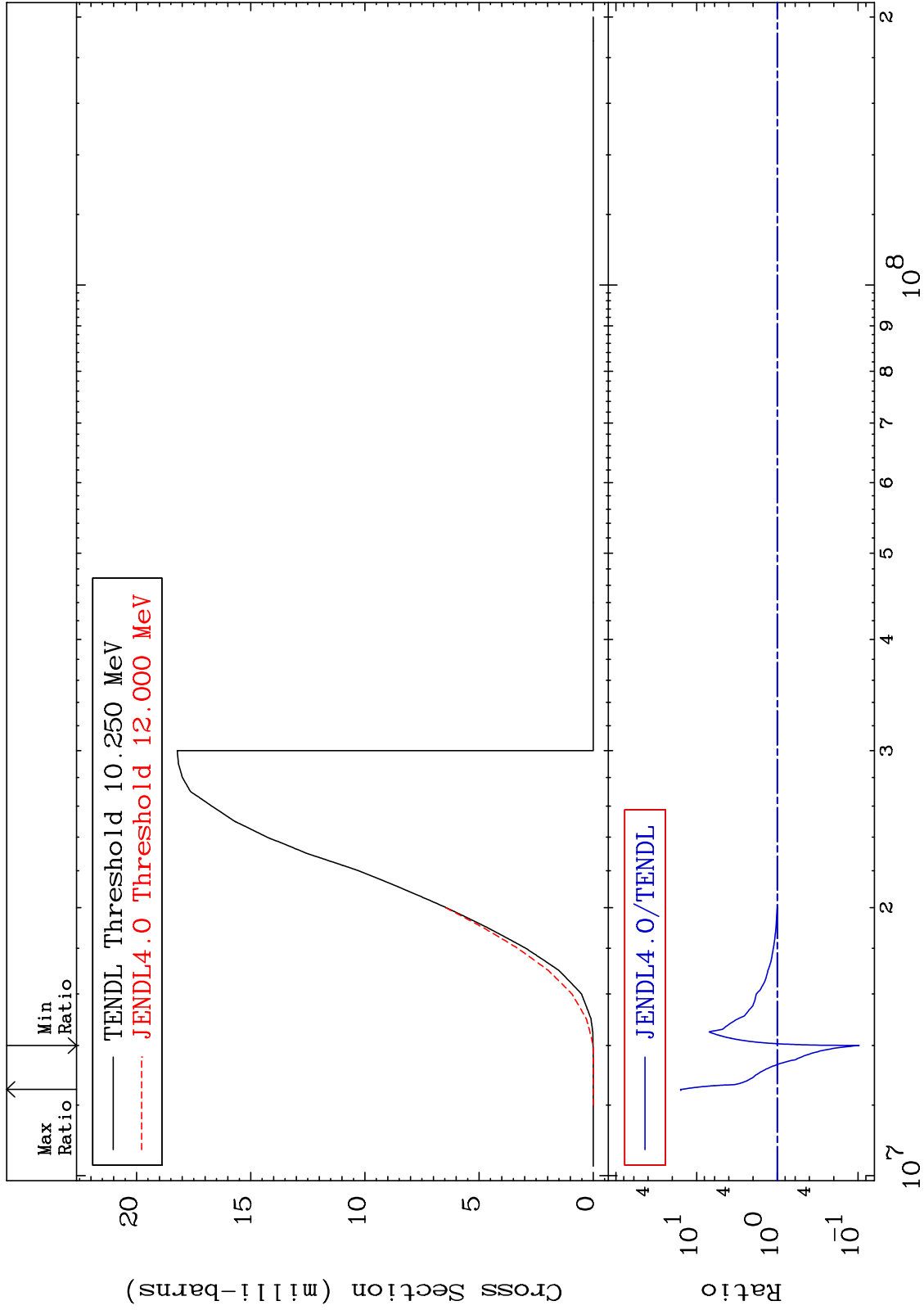
MAT 3449

(n,d)

34-Se-82

Cross Section

-90.32 To 1478. %



34-Se-82

34-Se-82

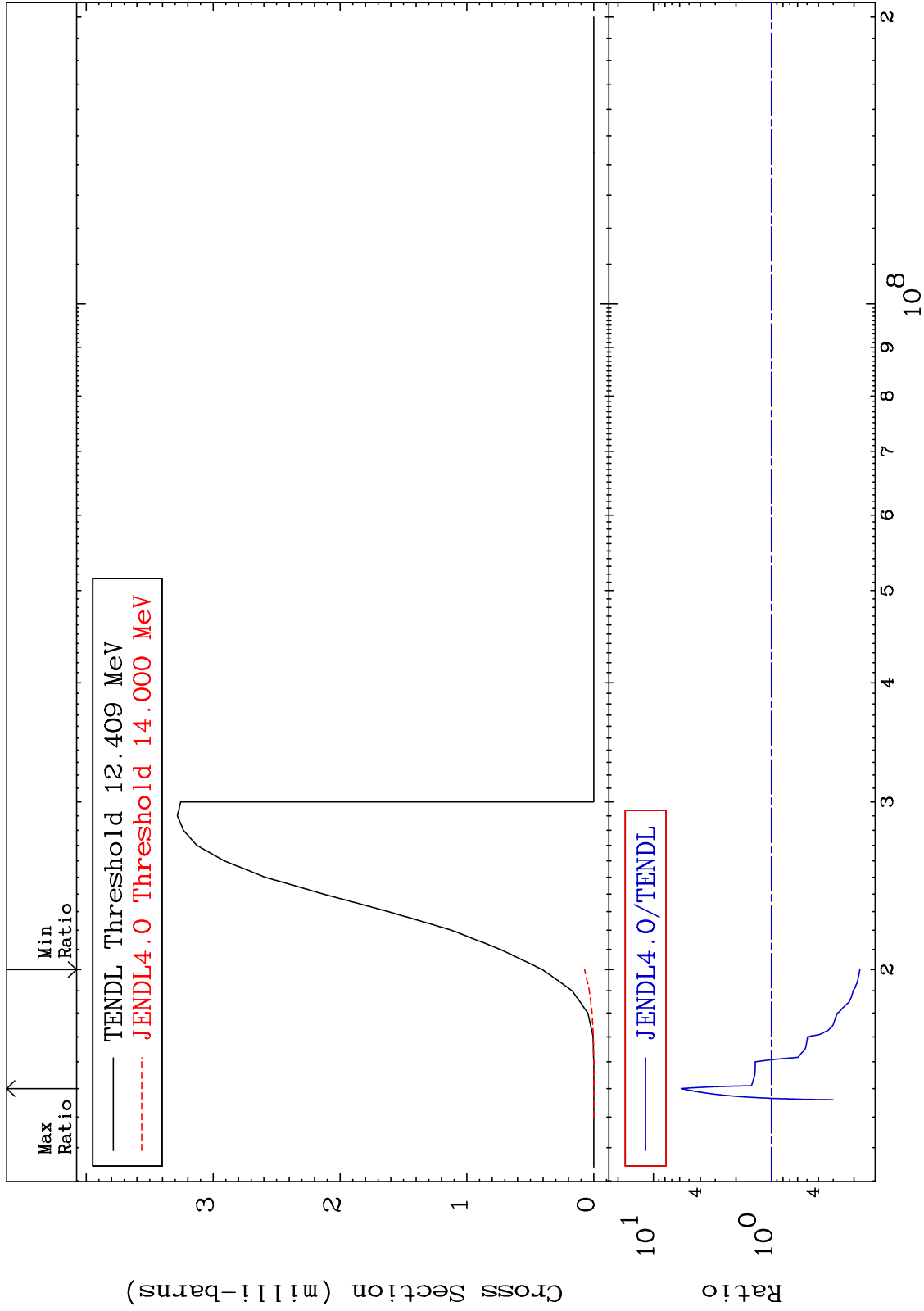
MAT 3449

(n, t)

34-Se-82

Cross Section

-82.19 To 482.1 %



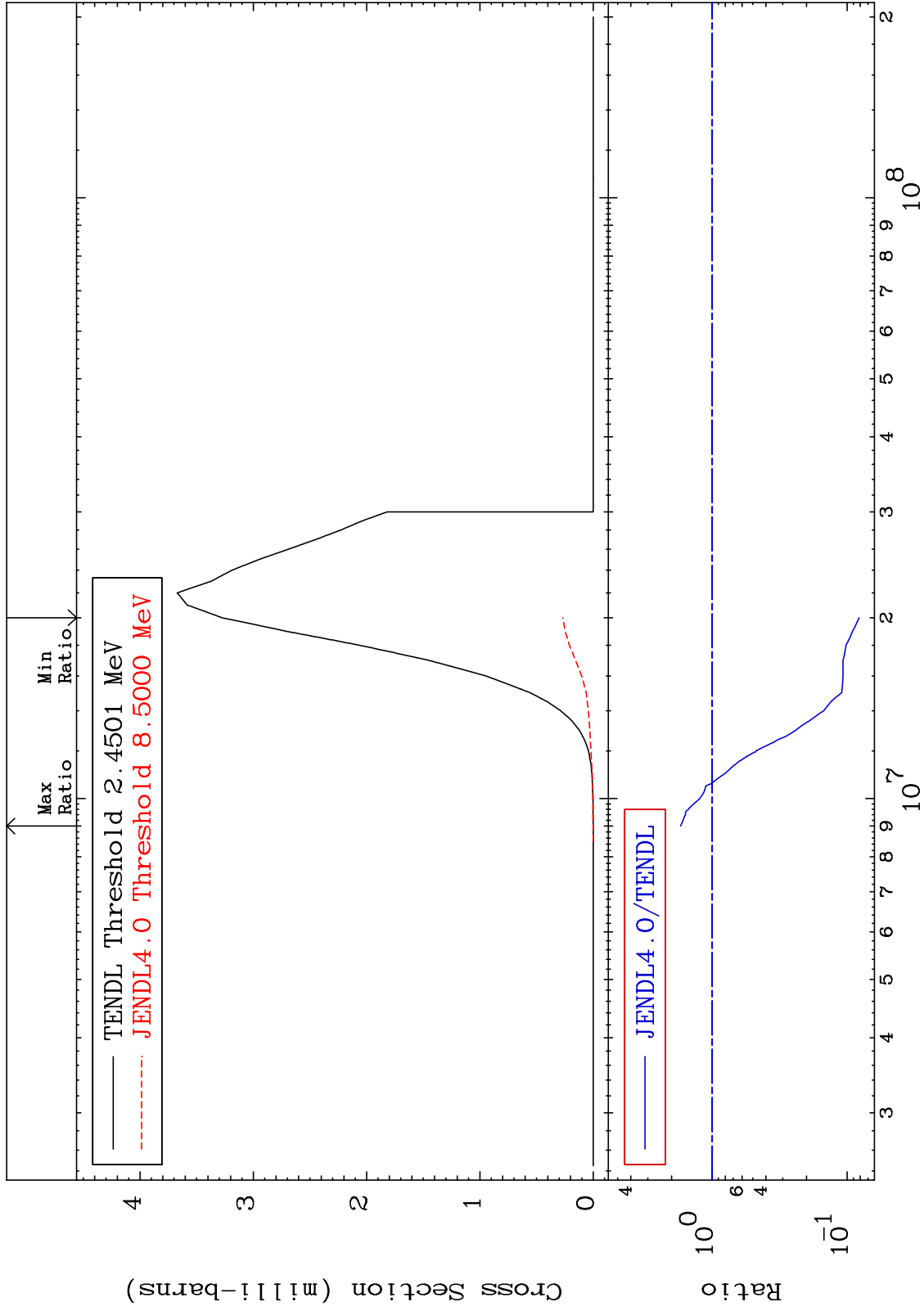
MAT 3449

(n, α)

³⁴Se-82

Cross Section

-91.84 To 71.23 %



27

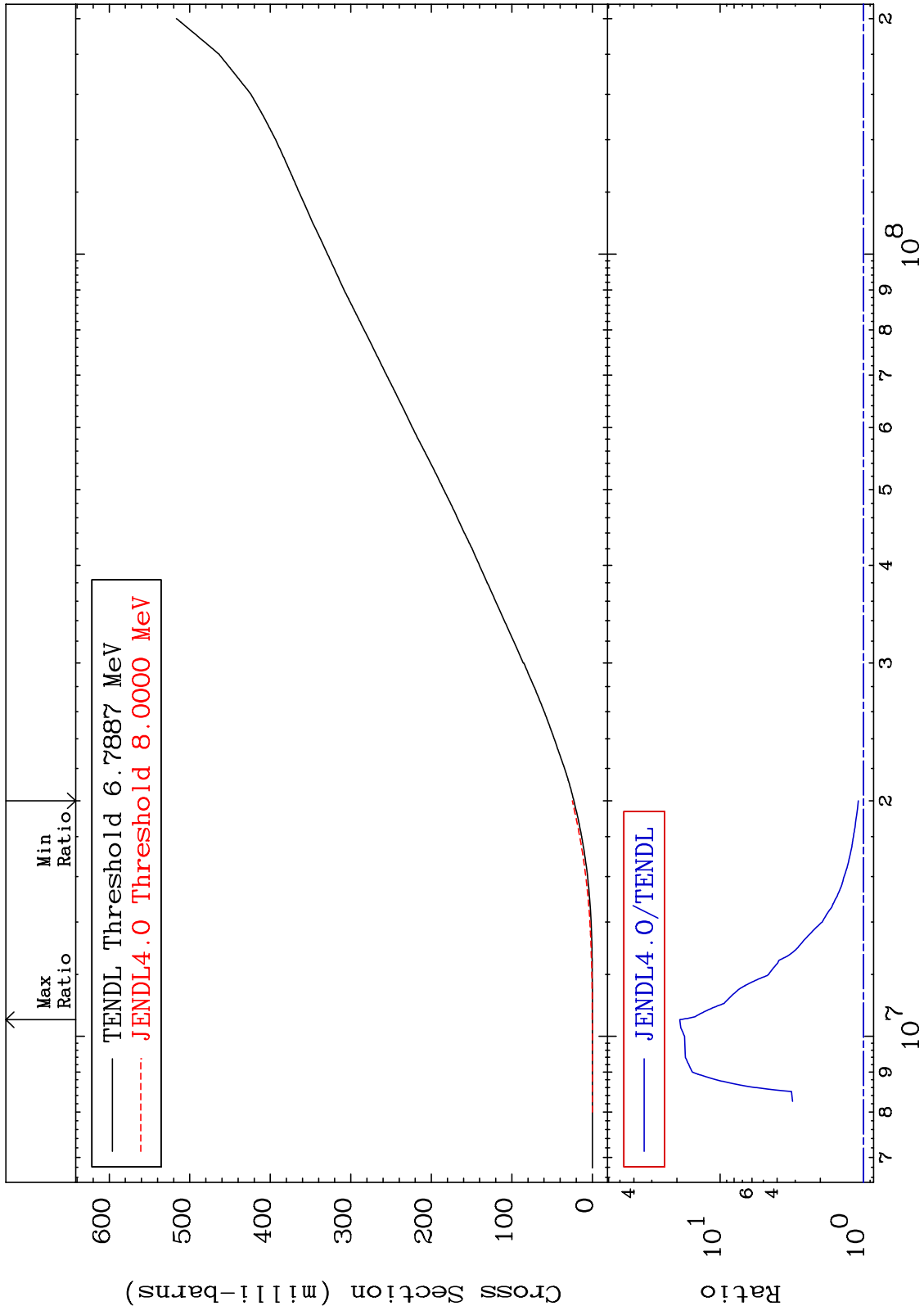
Incident Energy (eV)

³⁴Se-82

MAT 3449

Hydrogen Production
Cross Section

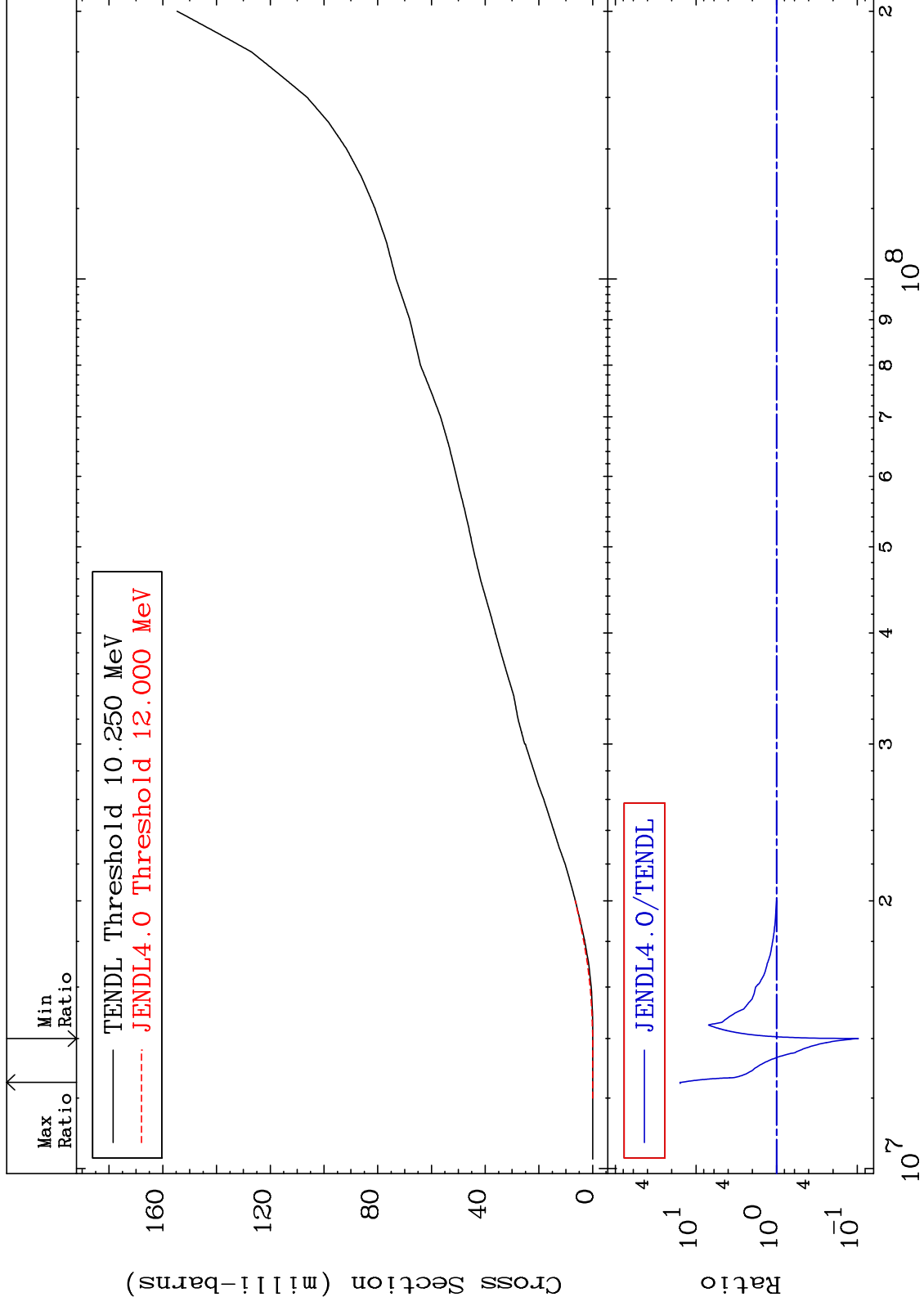
34-Se-82
8.639 To 1811. %



MAT 3449

Deuterium Production
Cross Section

³⁴Se-82
-90.32 To 1478. %



29

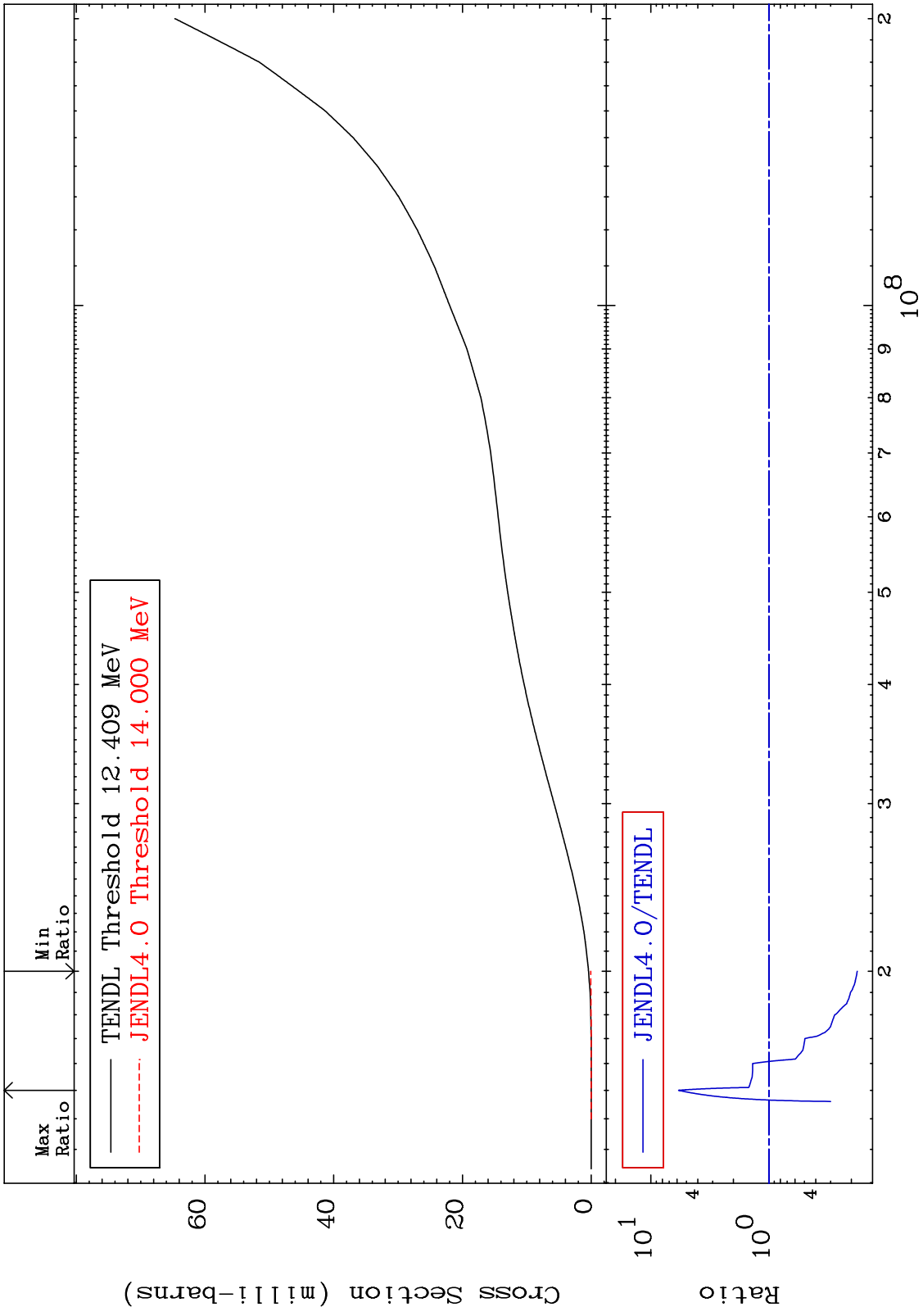
Incident Energy (eV)

³⁴Se-82

MAT 3449

Tritium Production
Cross Section

³⁴Se-82
-82.19 To 482.1 %



30

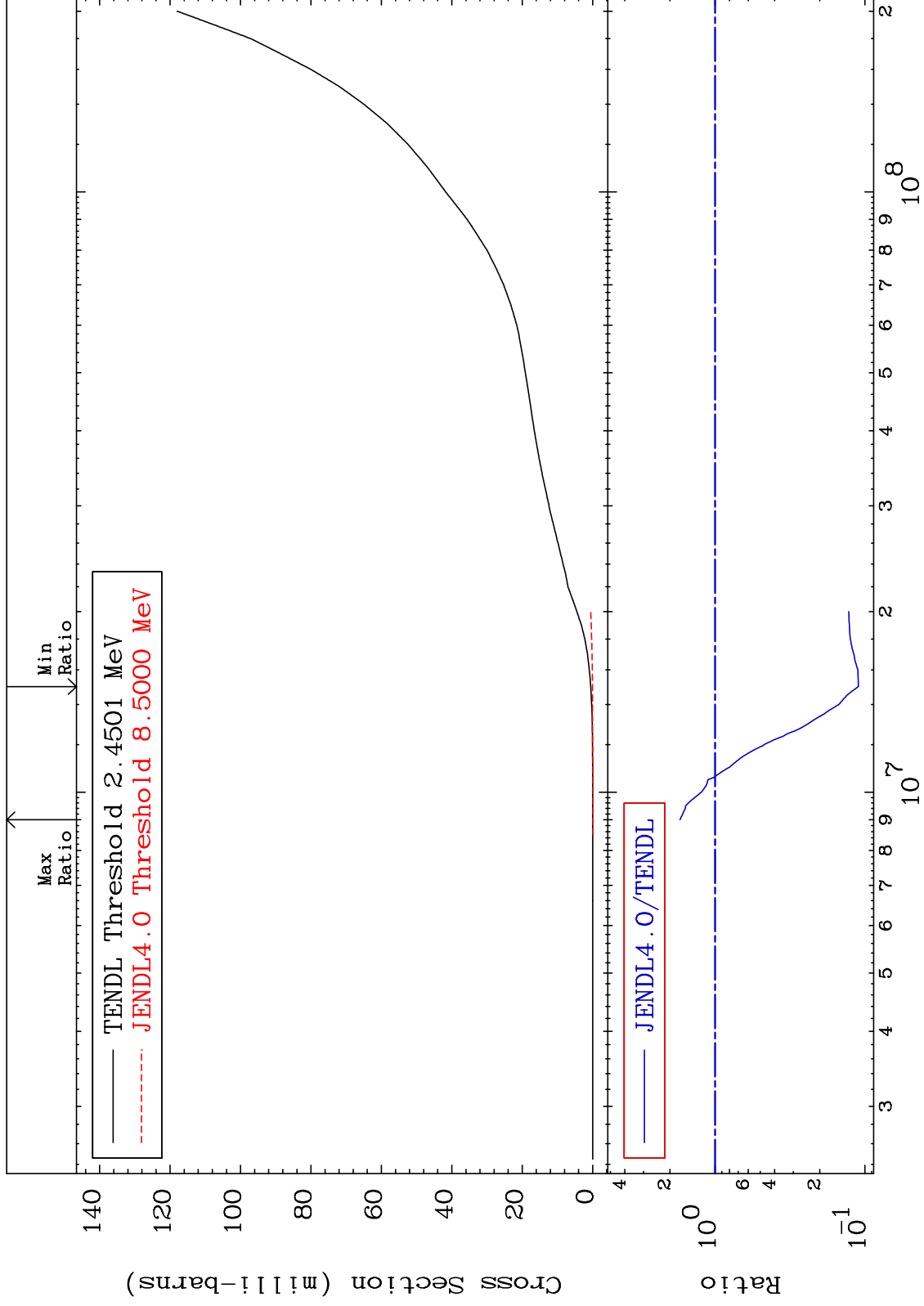
Incident Energy (eV)

³⁴Se-82

MAT 3449

He-4 Production
Cross Section

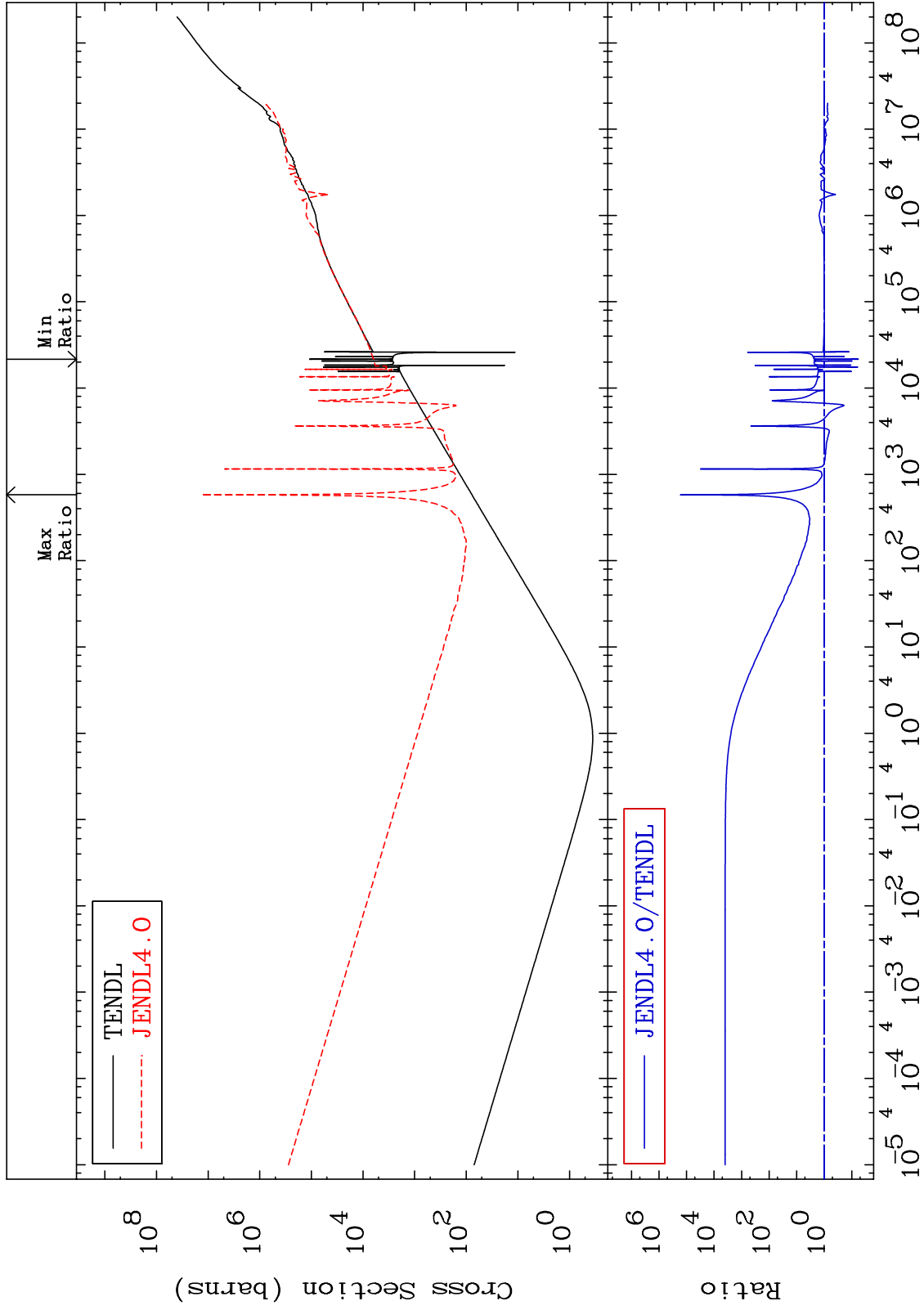
34-Se-82
-88.95 To 71.23 %



MAT 3449

Kerma total (eV-barns)
Cross Section

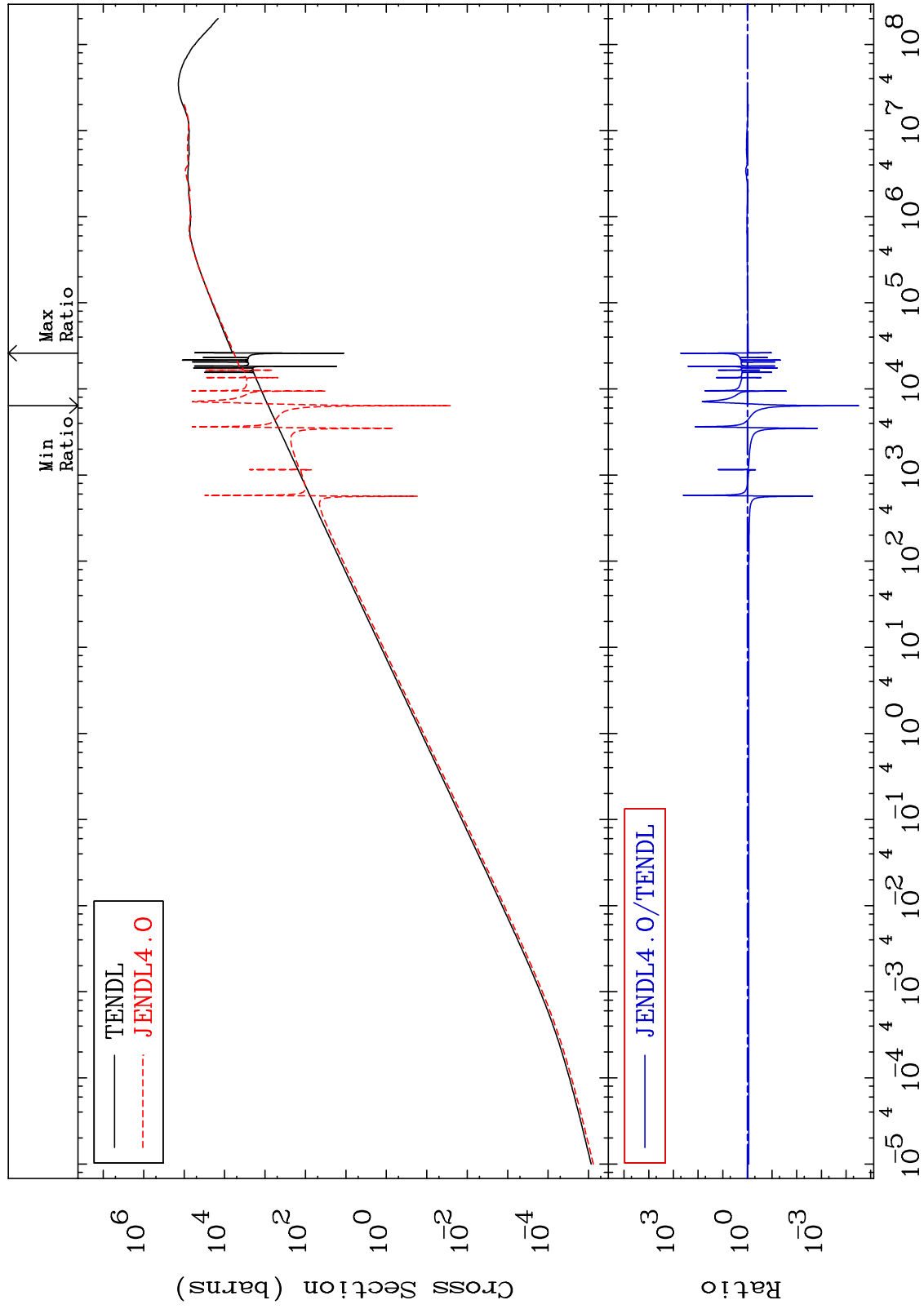
34-Se-82
-94.28 To 9999. %



MAT 3449

Kerma elastic
Cross Section

34-Se-82
-100.0 To 9999. %



33

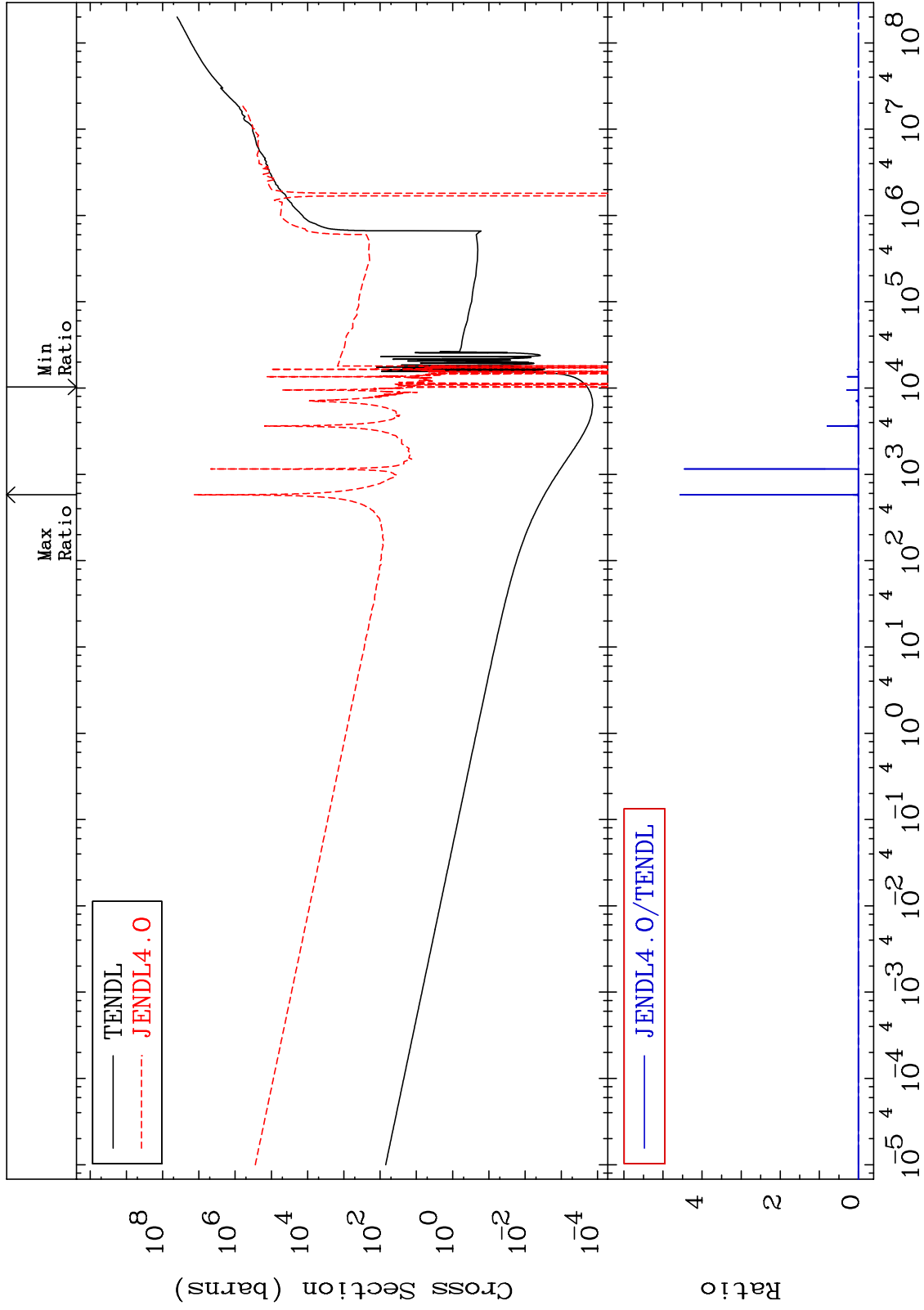
Incident Energy (eV)

34-Se-82

MAT 3449

Kerma non-elastic (all but mt2)
Cross Section

34-Se-82
-9999. To 9999. %



34

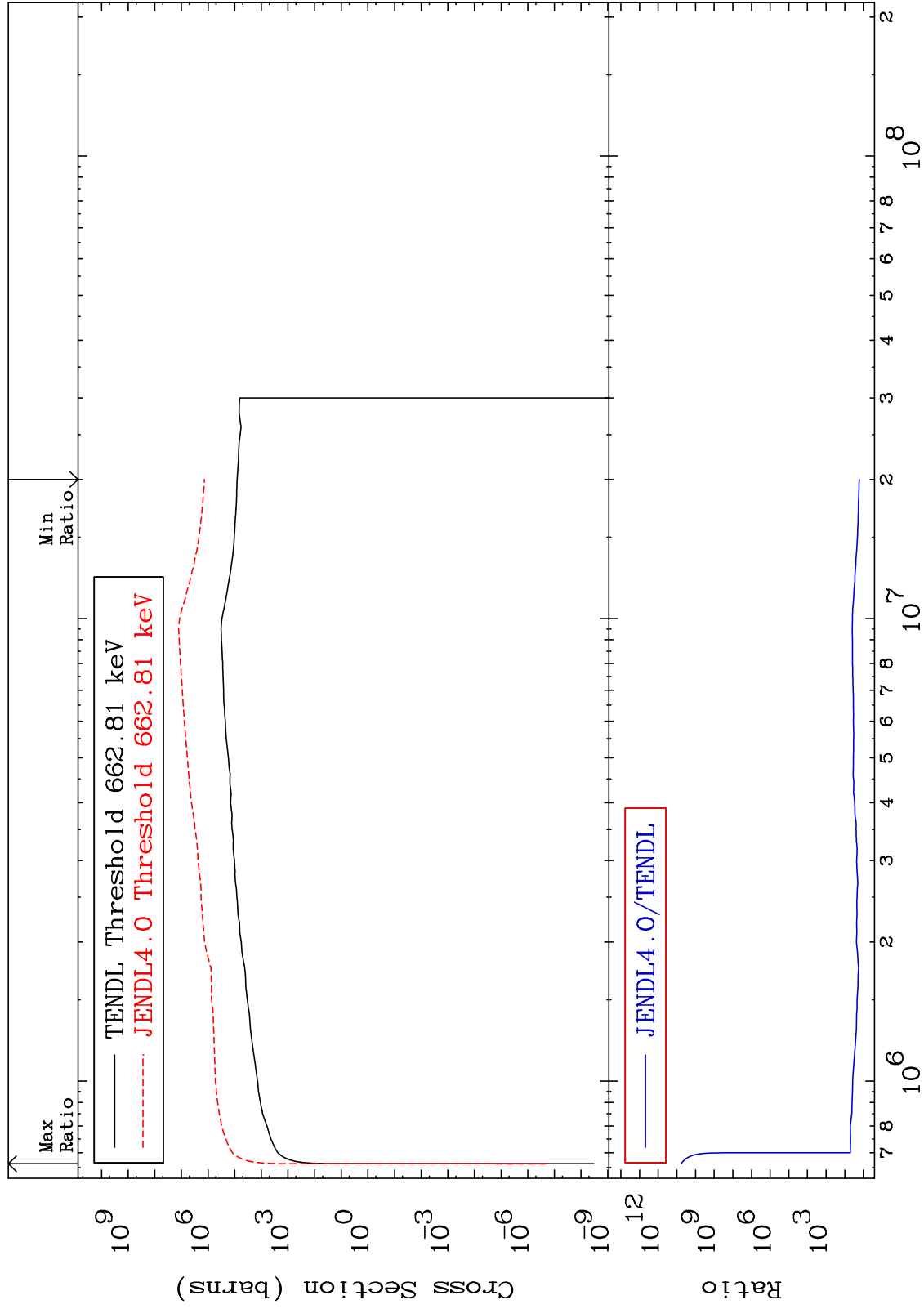
Incident Energy (eV)

34-Se-82

MAT 3449

Kerma inelastic (mt51-91)
Cross Section

34-Se-82
1569. To 9999. %



35

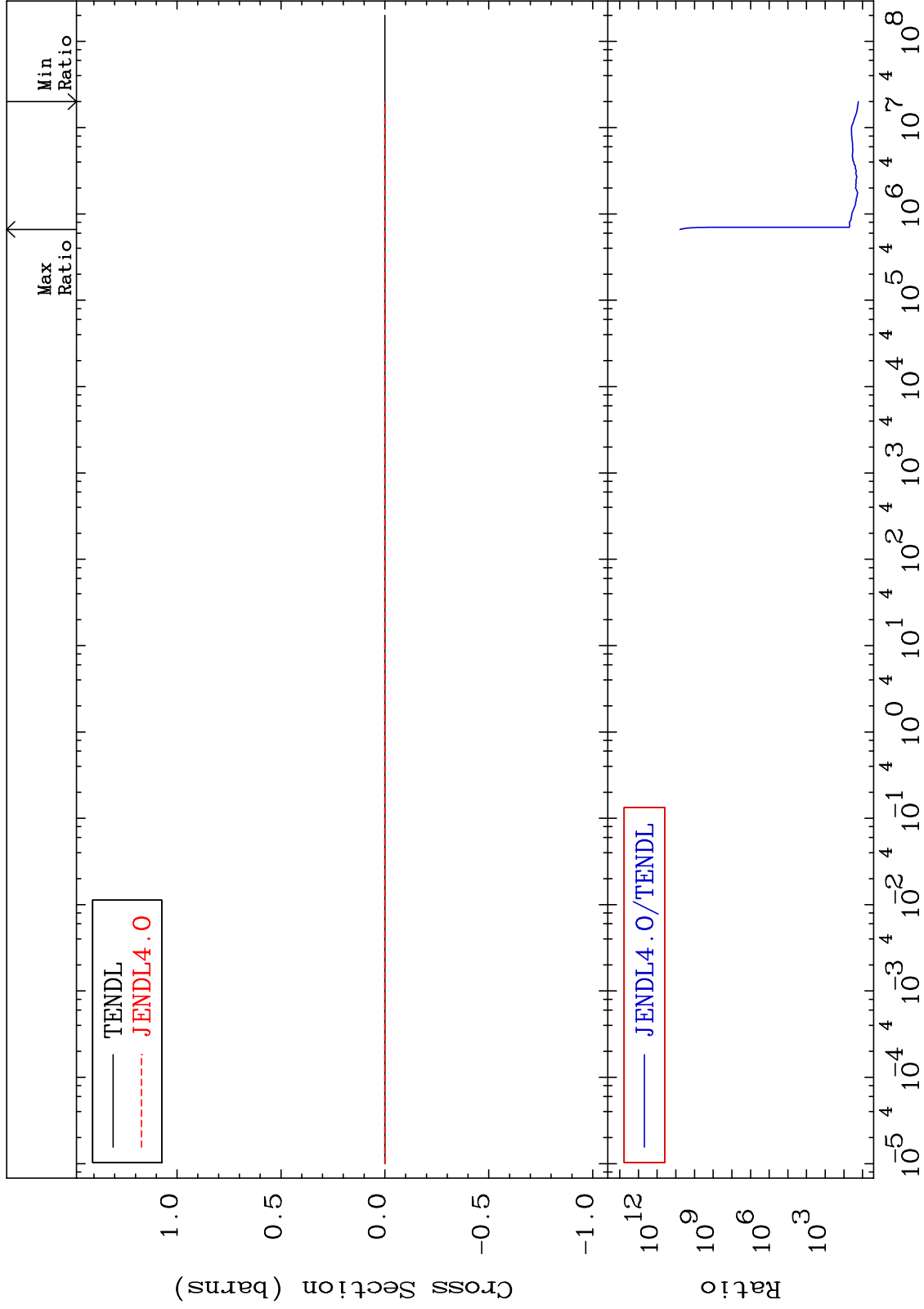
Incident Energy (eV)

34-Se-82

MAT 3449

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

34-Se-82
1569. To 9999. %



36

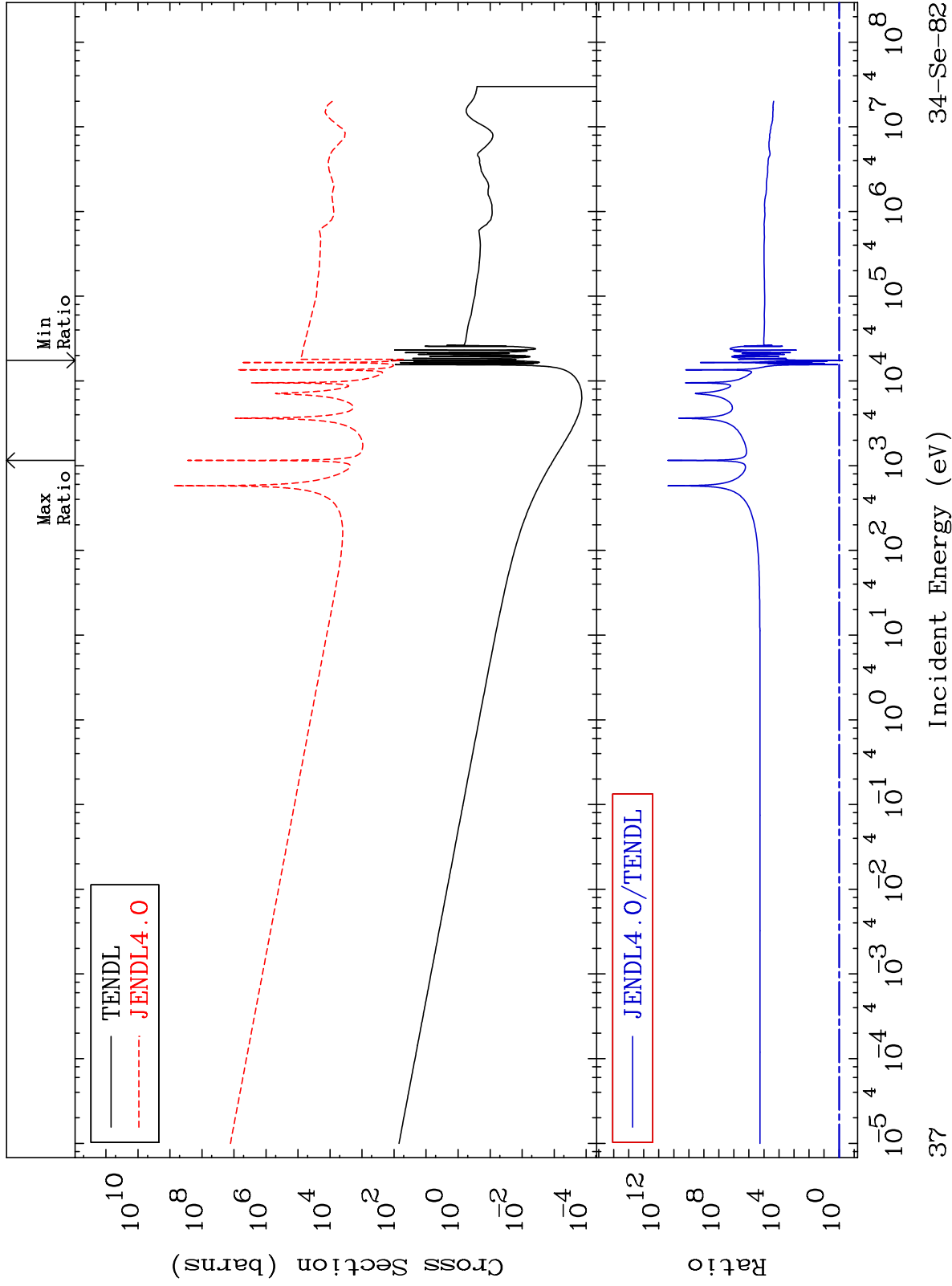
Incident Energy (eV)

34-Se-82

MAT 3449

Kerma capture (mt102)
Cross Section

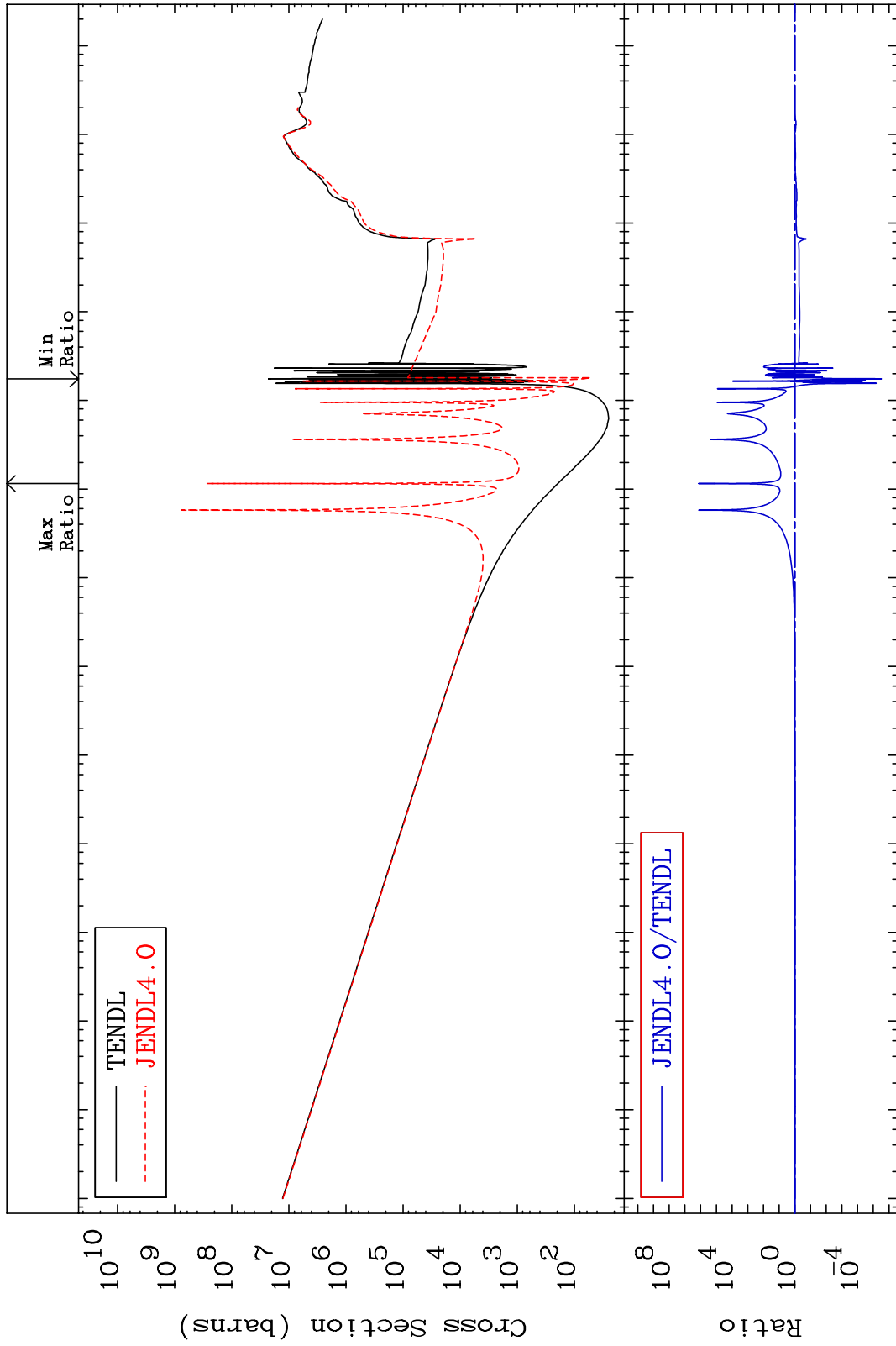
34-Se-82
-42.01 To 9999. %



MAT 3449

Total photon (eV-barns)
Cross Section

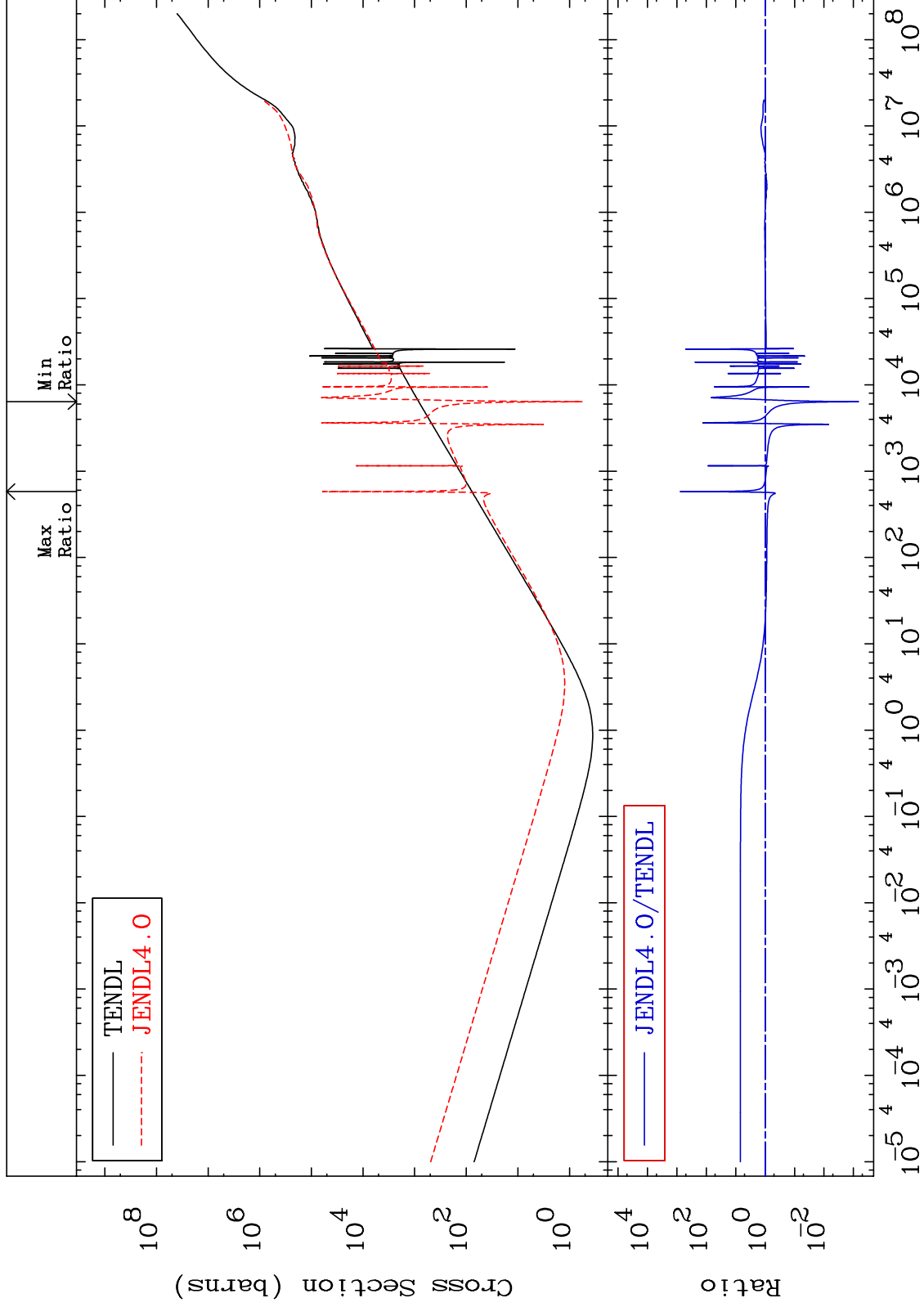
34-Se-82
-100.0 To 9999. %



MAT 3449

Total kinematic kerma (high limit)
Cross Section

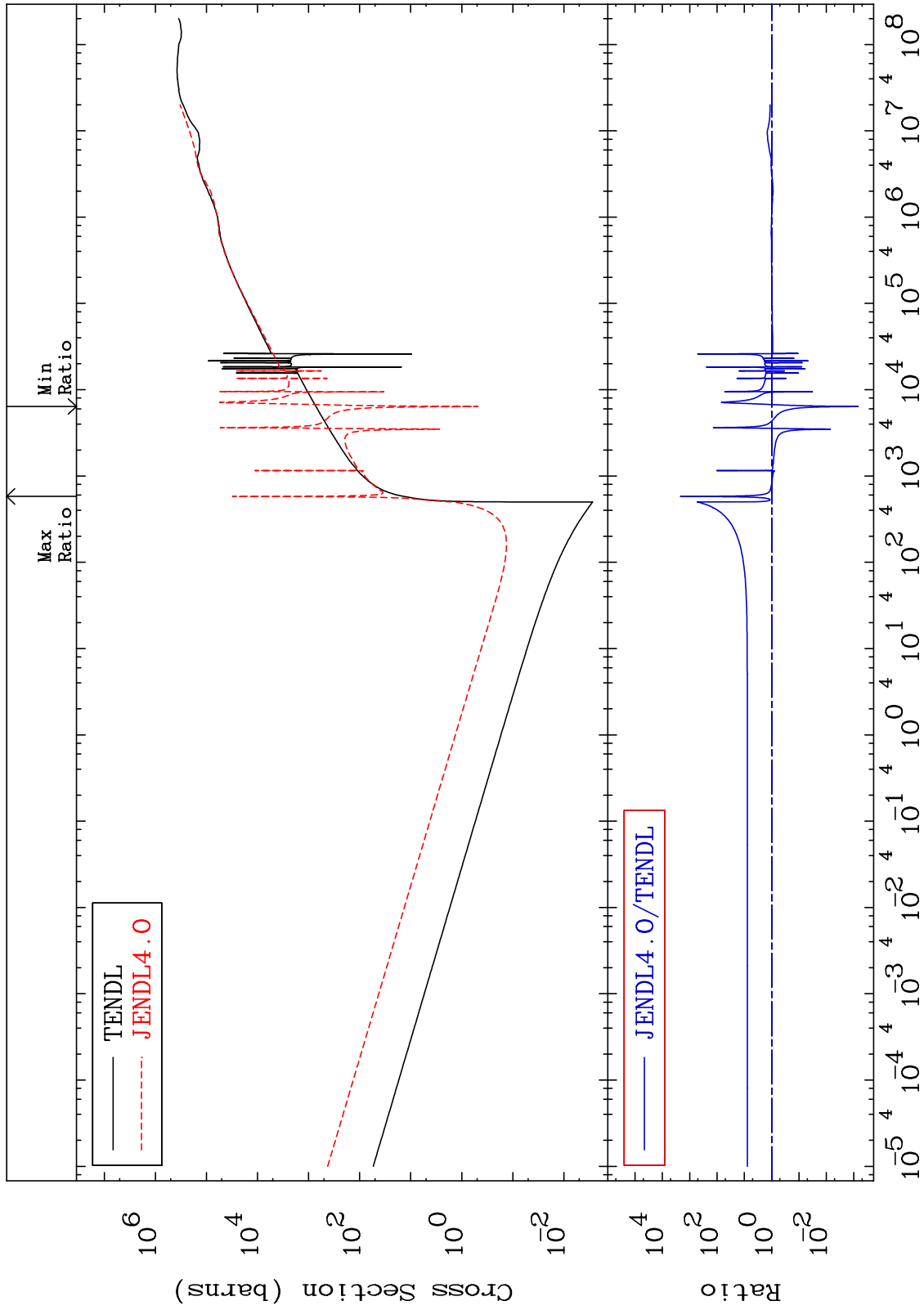
34-Se-82
-99.93 To 9999. %



MAT 3449

Dpa total (eV-barns)
Cross Section

34-Se-82
-99.93 To 9999. %



40

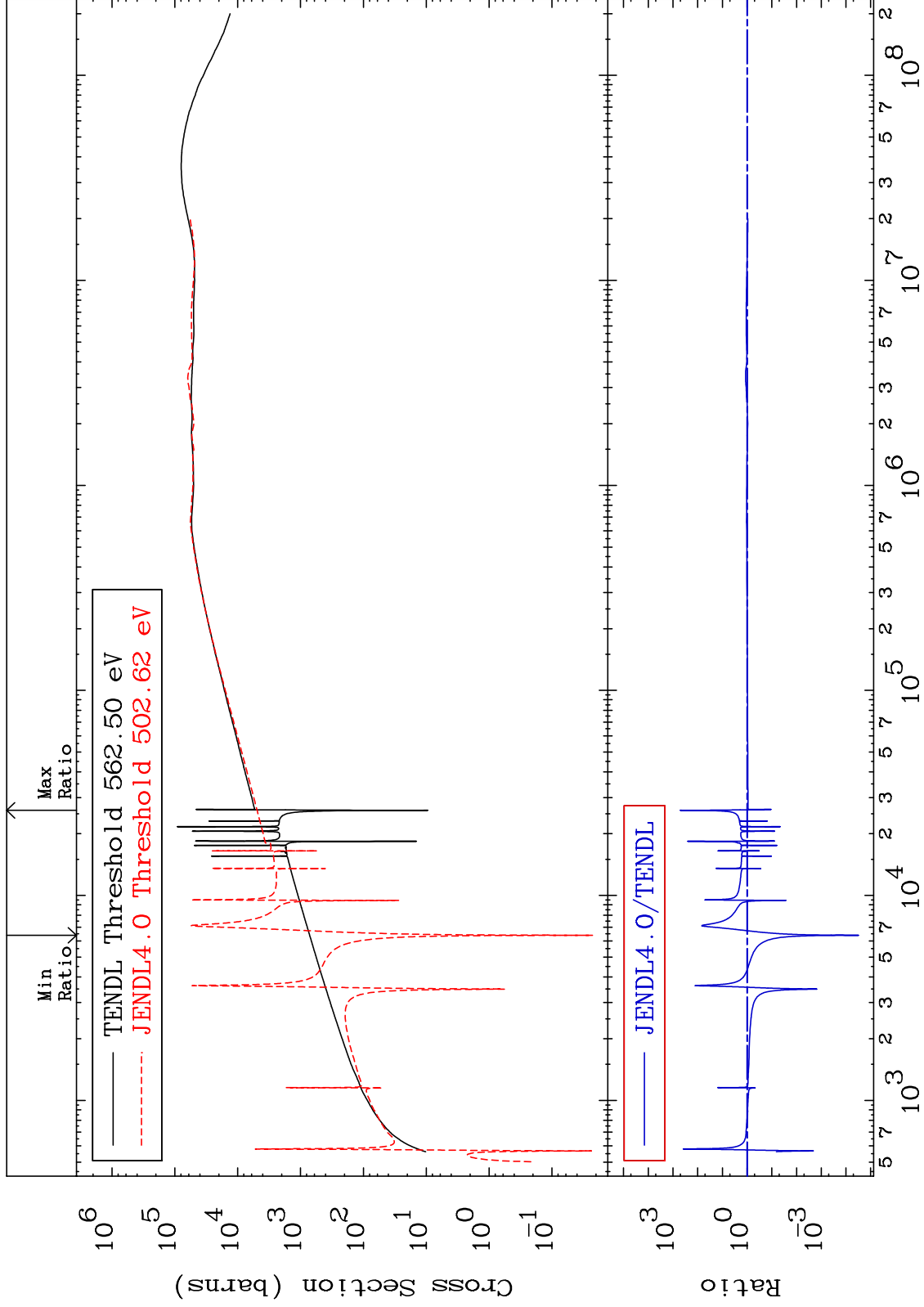
Incident Energy (eV)

34-Se-82

MAT 3449

Dpa elastic (mt2)
Cross Section

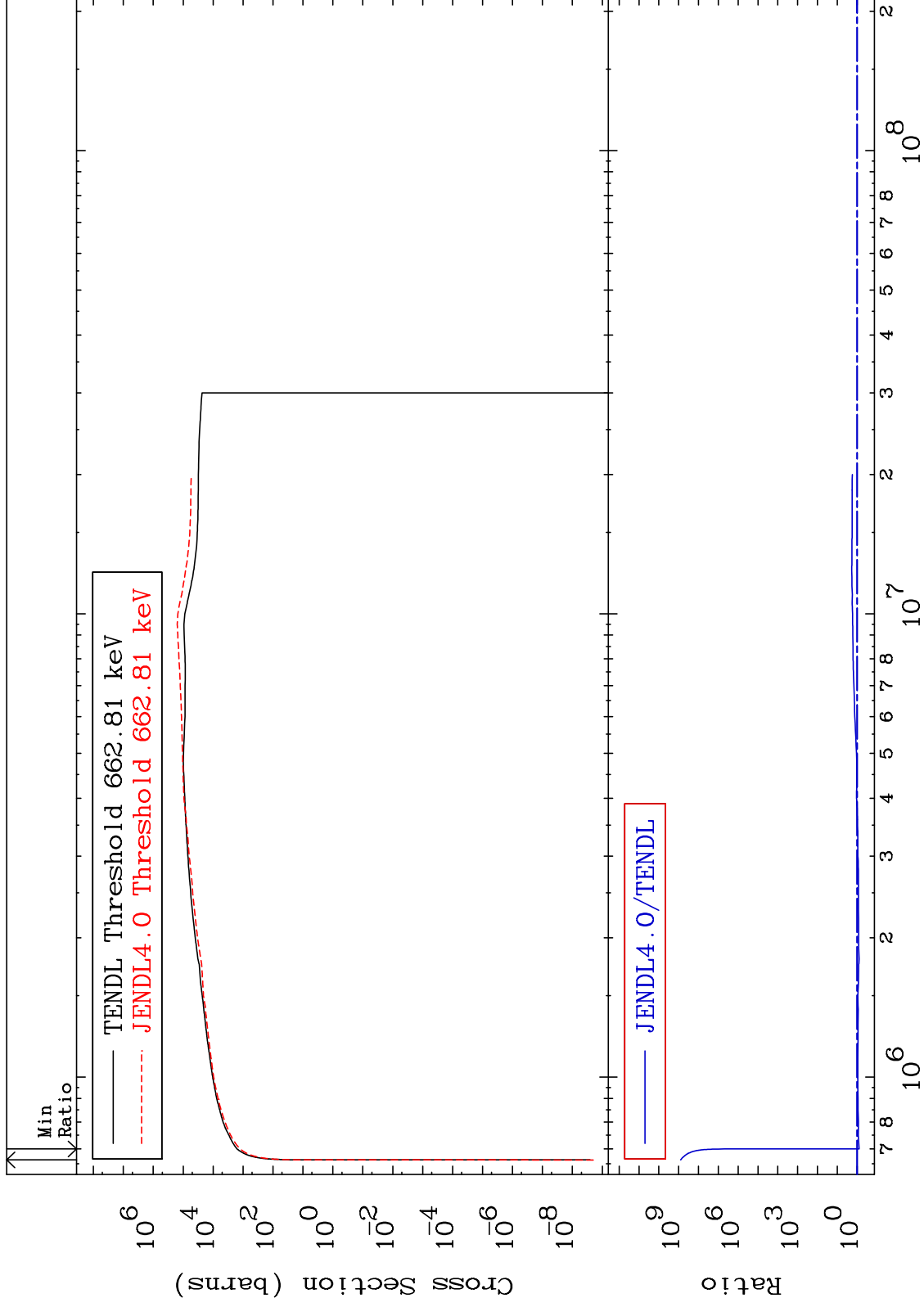
34-Se-82
-100.0 To 9999. %



MAT 3449

Dpa inelastic (mt51-91)
Cross Section

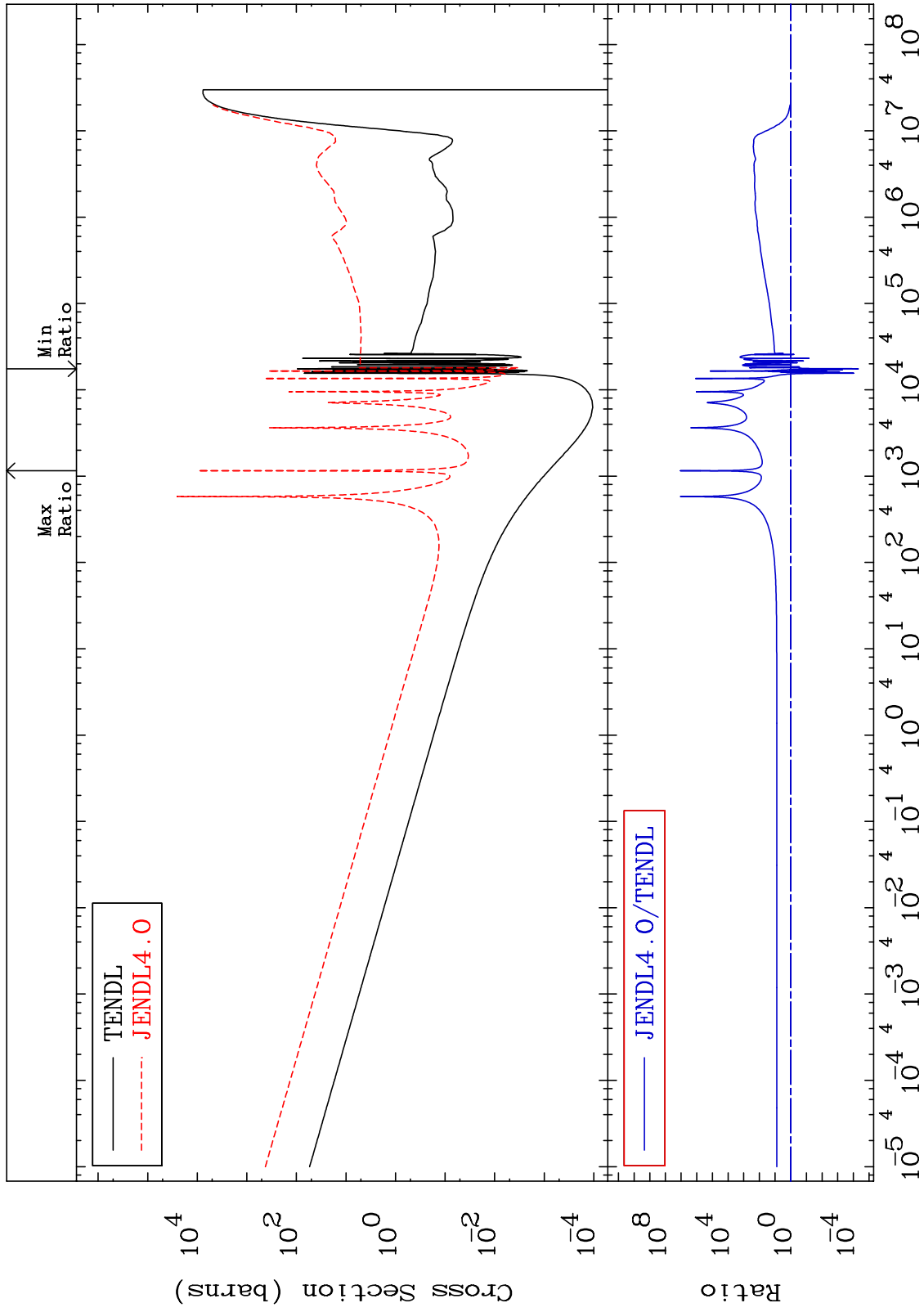
34-Se-82
-21.24 To 9999. %



MAT 3449

Dpa disappearance (mt102 -120)
Cross Section

34-Se-82
-100.0 To 9999. %

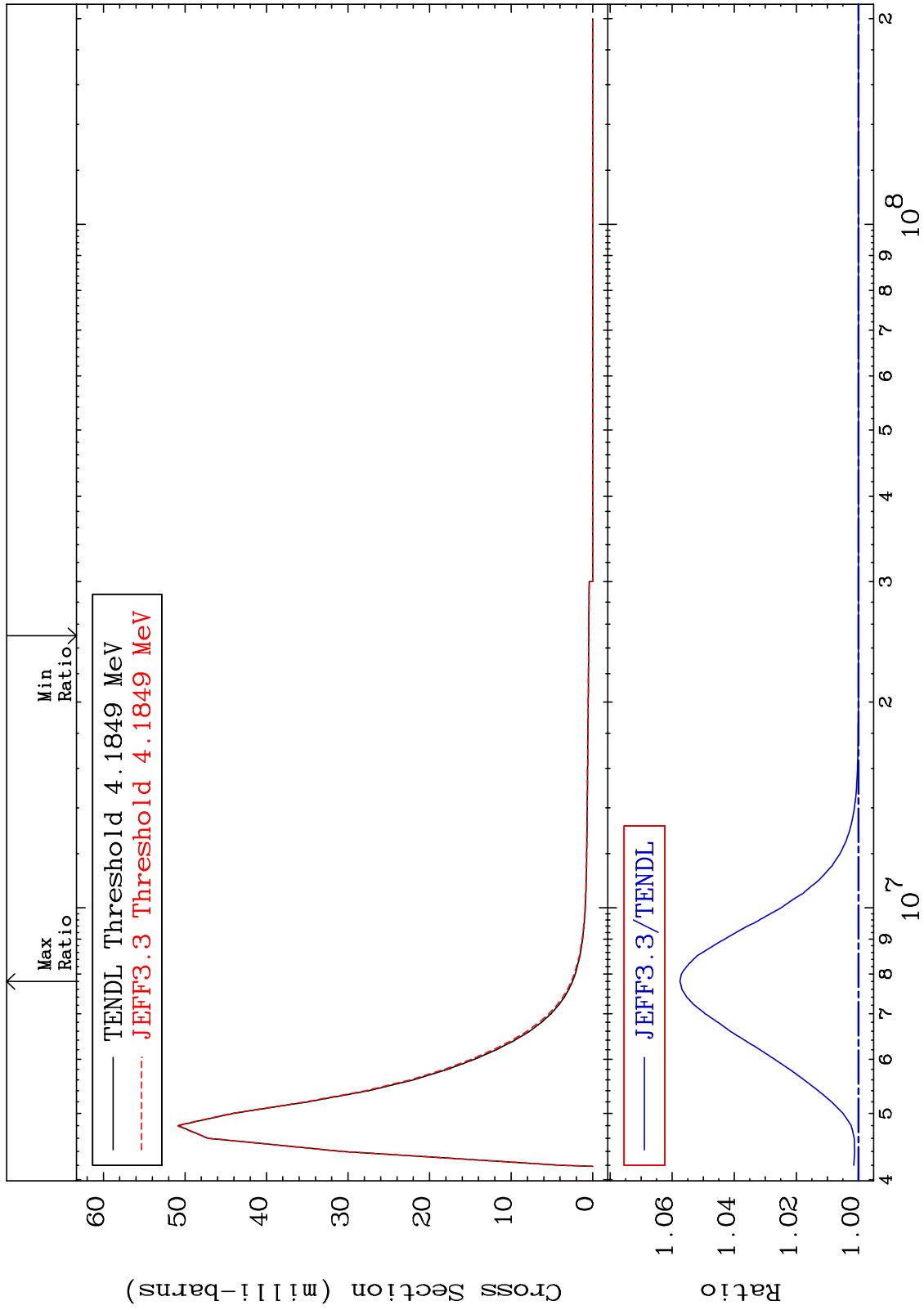


43

Incident Energy (eV)

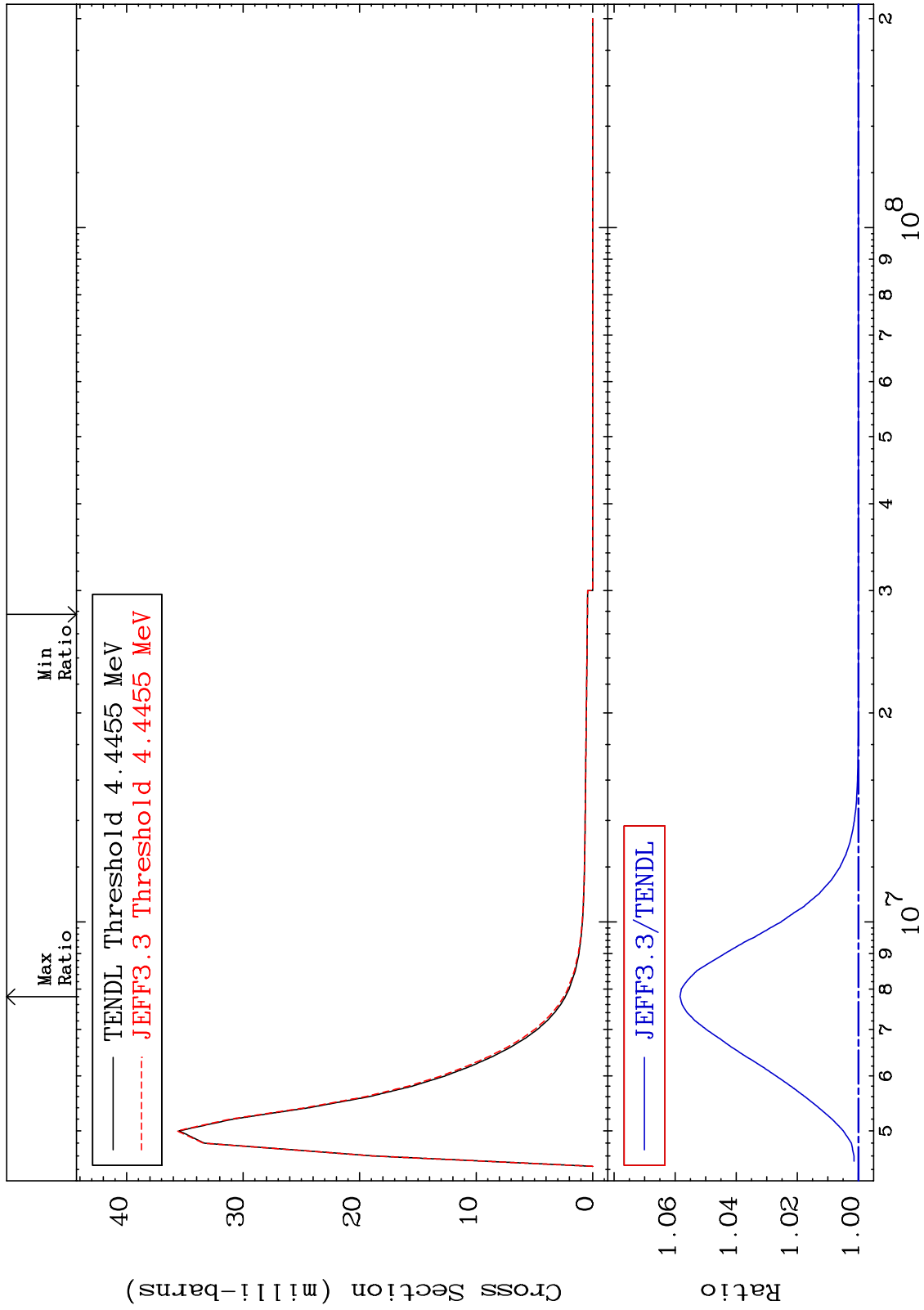
34-Se-82

MAT 3449 MT= 77 (n,n') Level Cross Section 34-Se-82 To 5.748 %

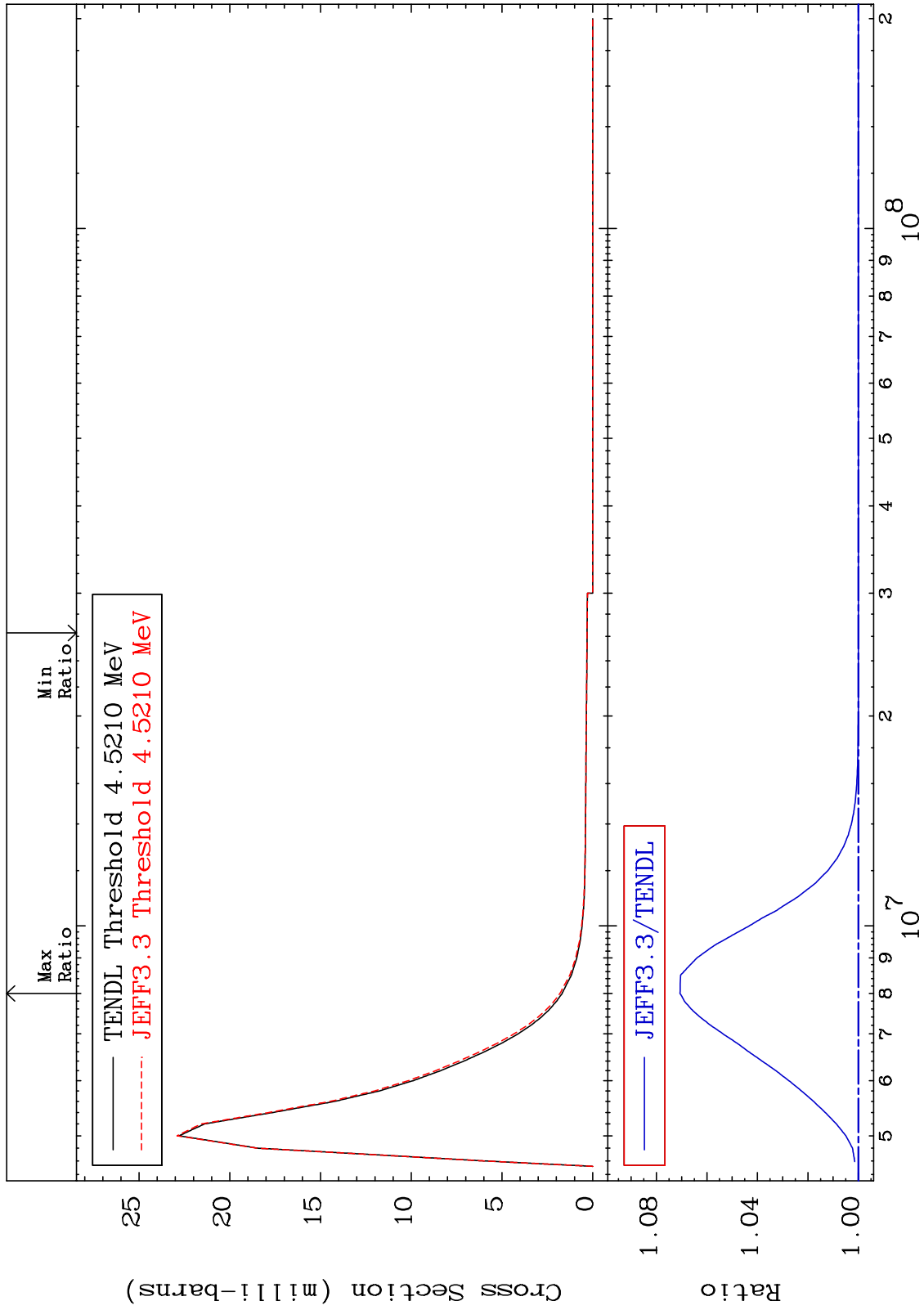


Incident Energy (eV) 34-Se-82

MAT 3449 MT= 78 (n,n') Level Cross Section 34-Se-82 To 5.841 %

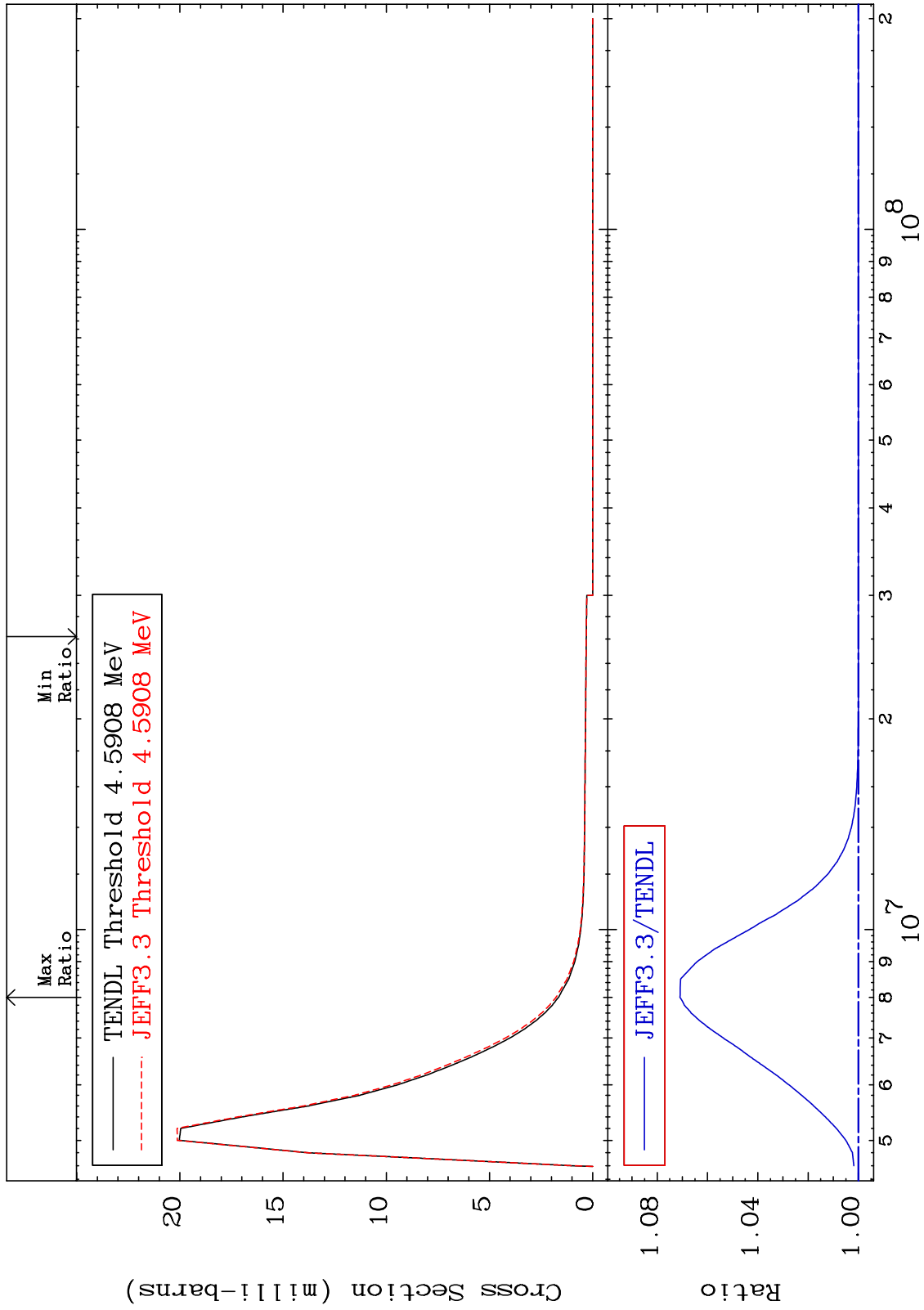


MAT 3449 MT= 79 (n,n') Level Cross Section 34-Se-82 To 7.065 %



46 34-Se-82 Incident Energy (eV)

MAT 3449 MT= 80 (n,n') Level Cross Section 34-Se-82 To 7.092 %

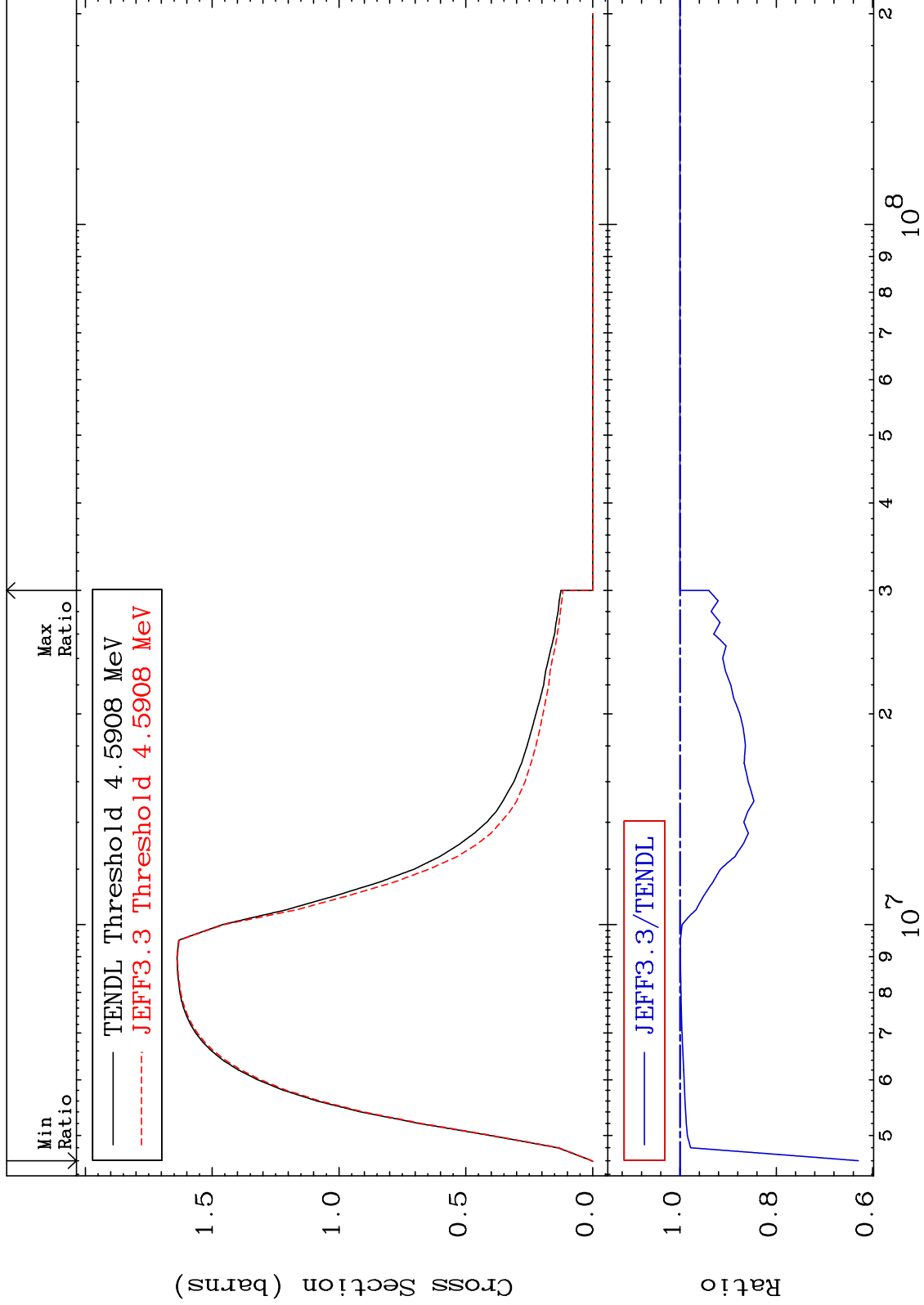


47 34-Se-82

MAT 3449

(n, n') Continuum
Cross Section

34-Se-82
-37.06 To 0.000 %



48

Incident Energy (eV)

34-Se-82

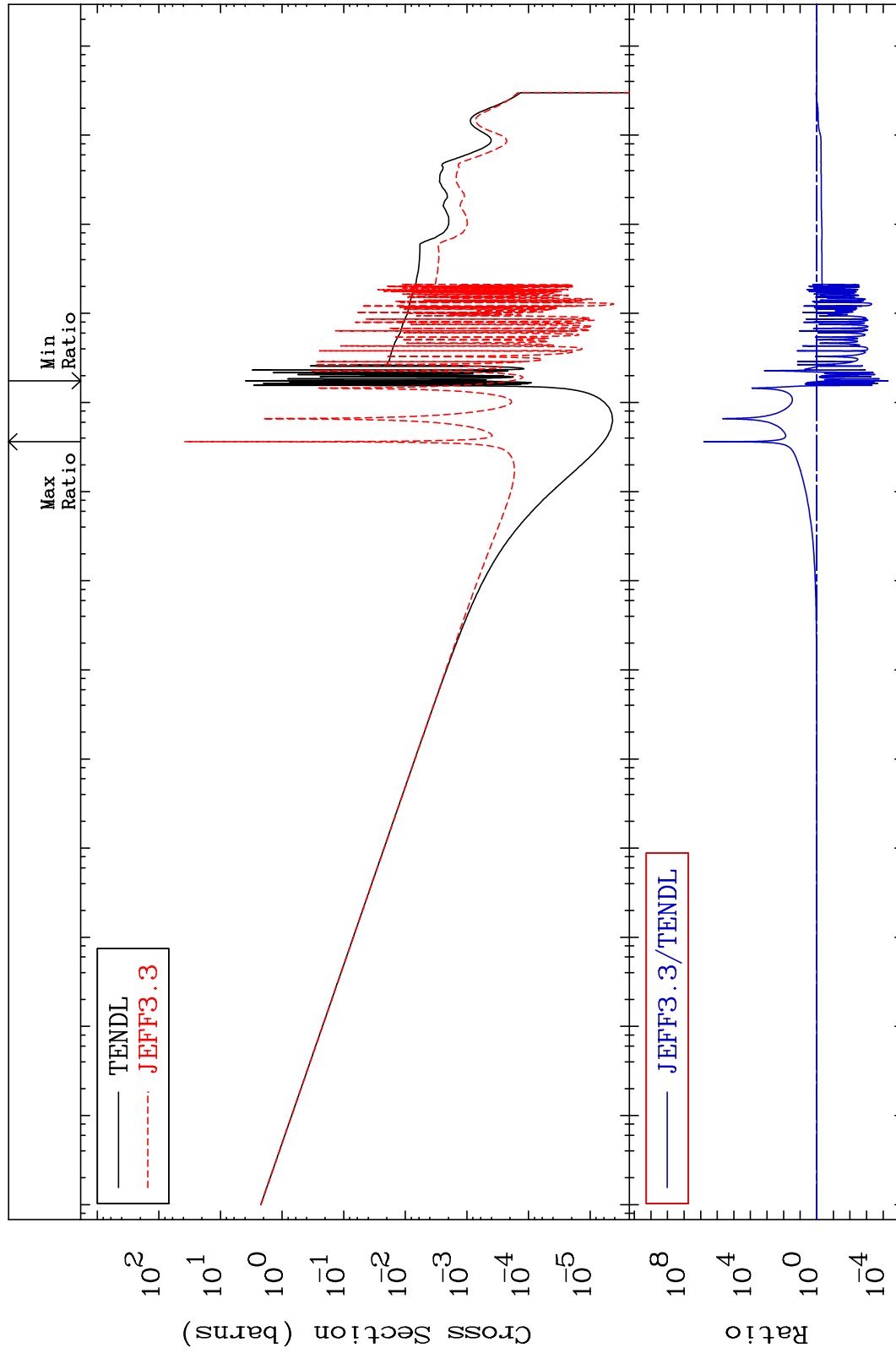
MAT 3449

³⁴Se-82

(n, γ)

-100.0 To 9999. %

Cross Section



Incident Energy (eV) 34-Se-82

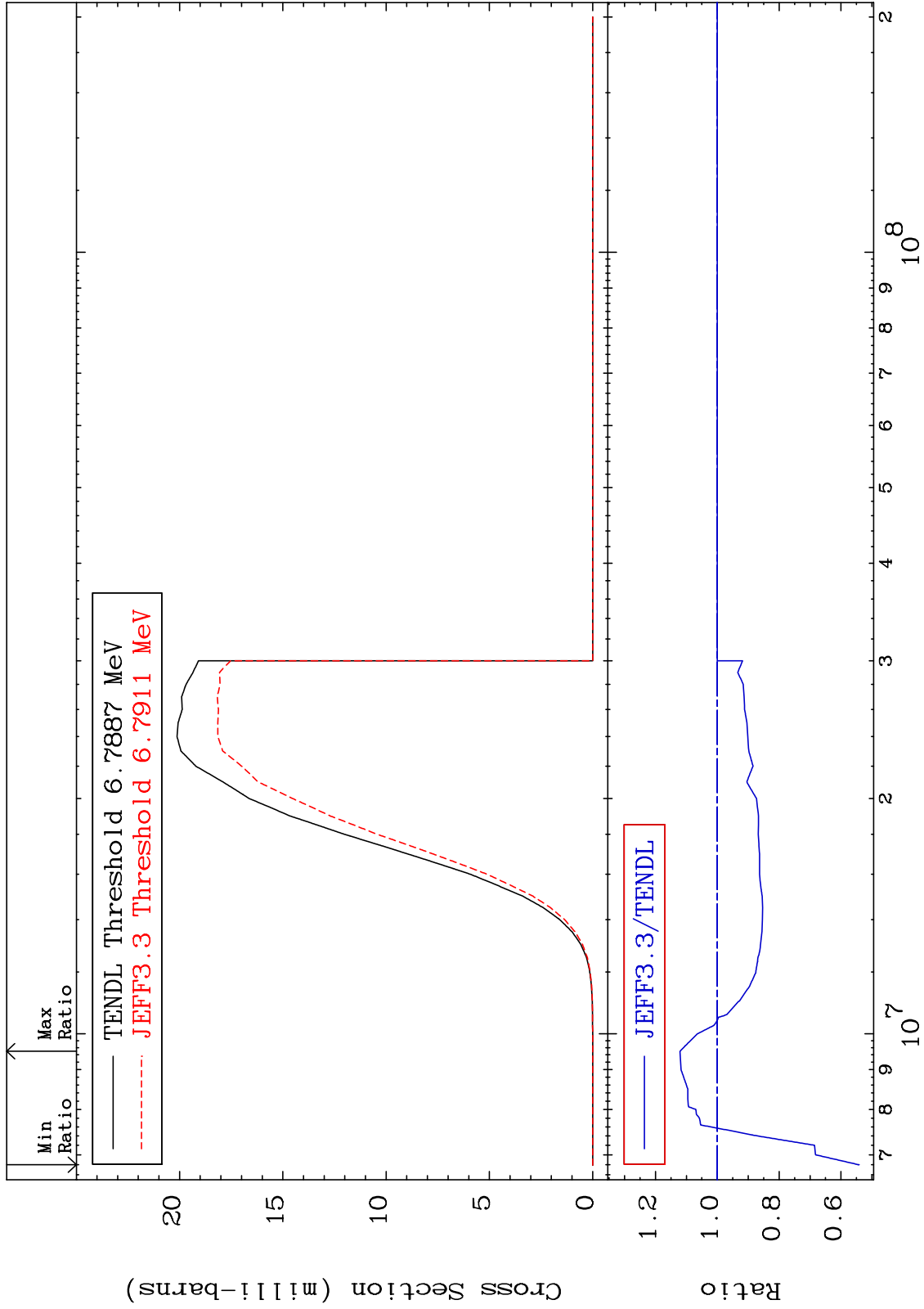
MAT 3449

(n,p)

³⁴Se-82

Cross Section

-45.64 To 12.06 %



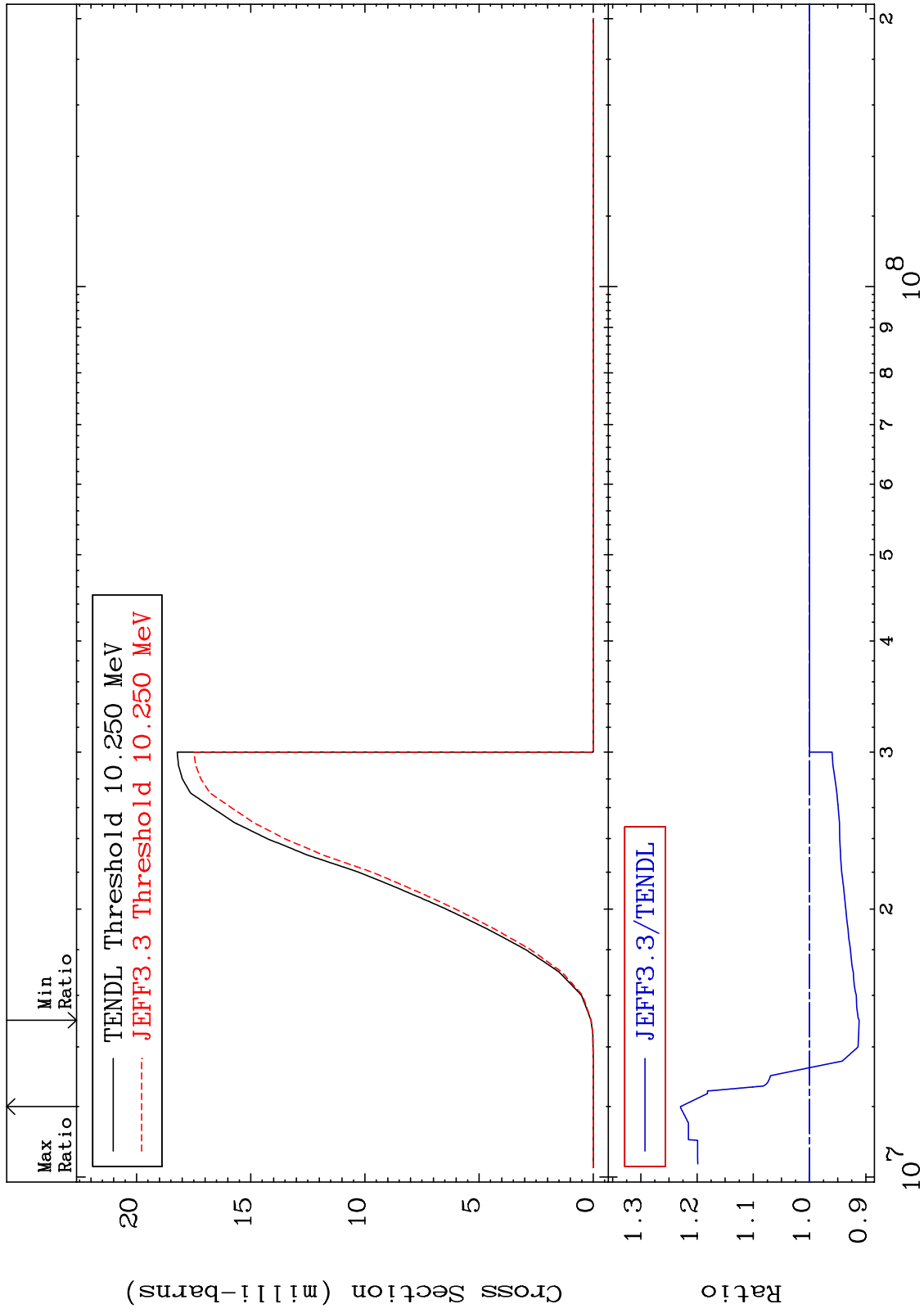
MAT 3449

(n, d)

34-Se-82

Cross Section

-8.814 To 22.92 %



51

Incident Energy (eV)

34-Se-82

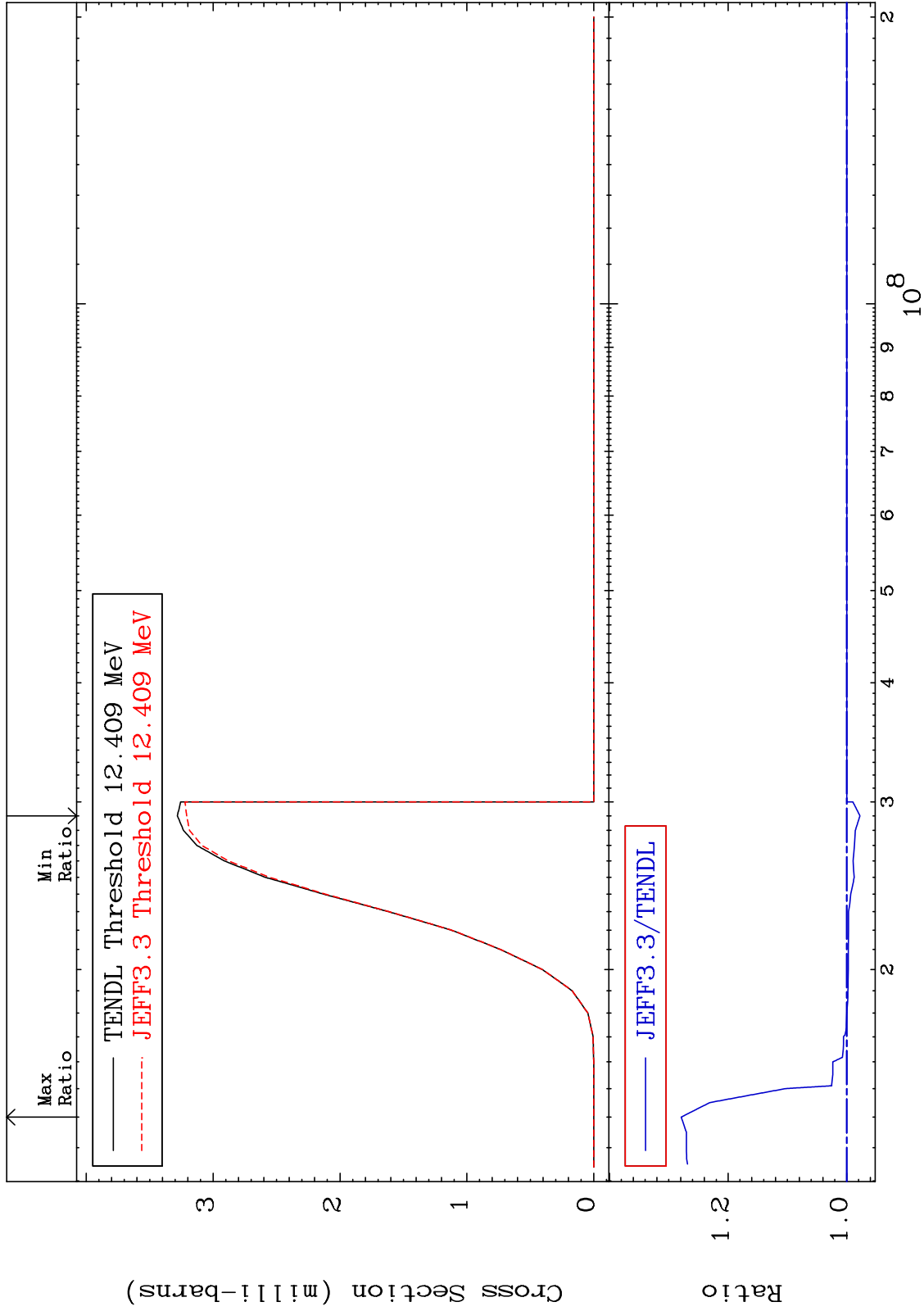
MAT 3449

(n, t)

34-Se-82

Cross Section

-2.230 To 27.91 %



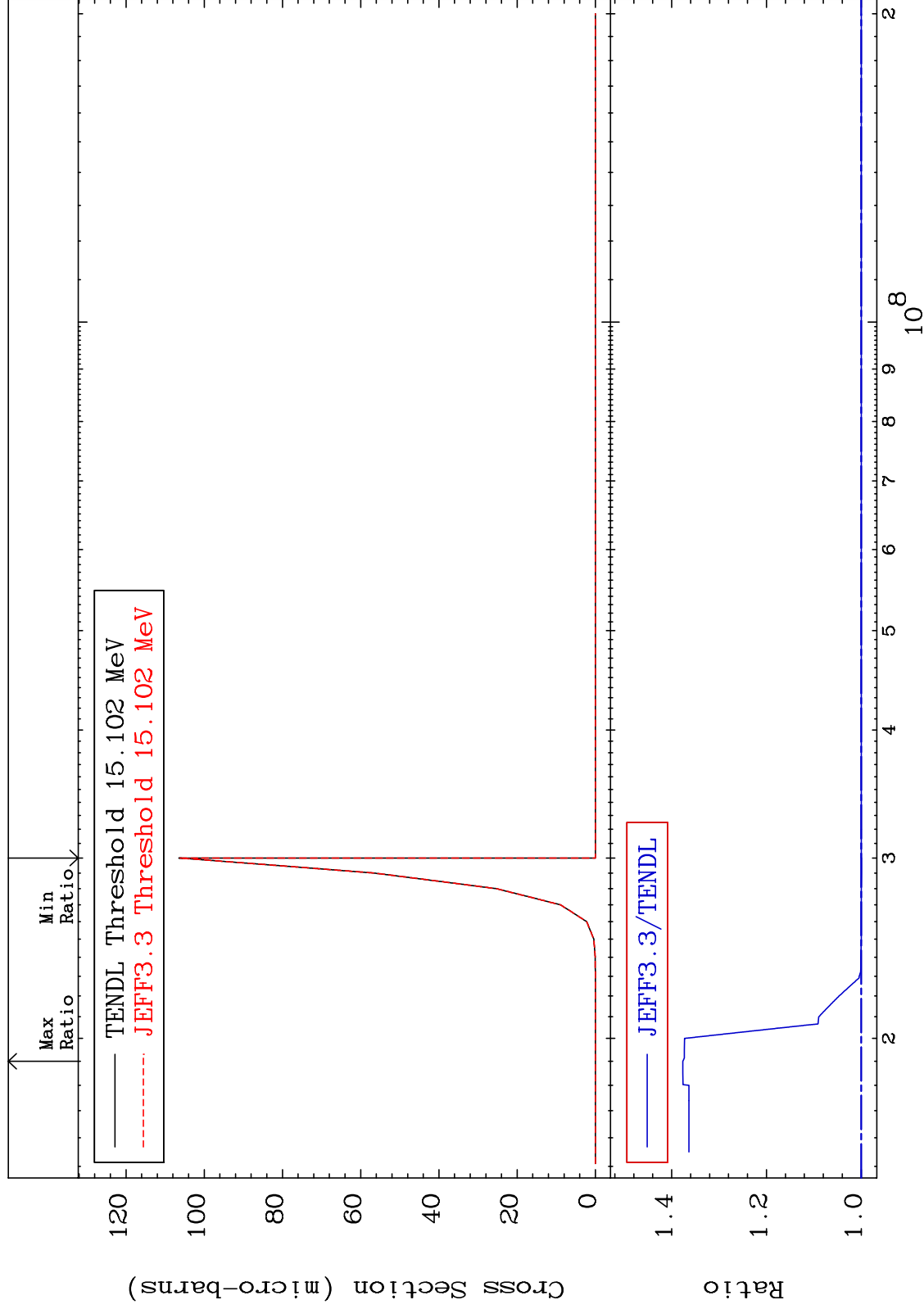
MAT 3449

(n, He-3)

34-Se-82

Cross Section

-0.075 To 37.64 %



53

Incident Energy (eV)

34-Se-82

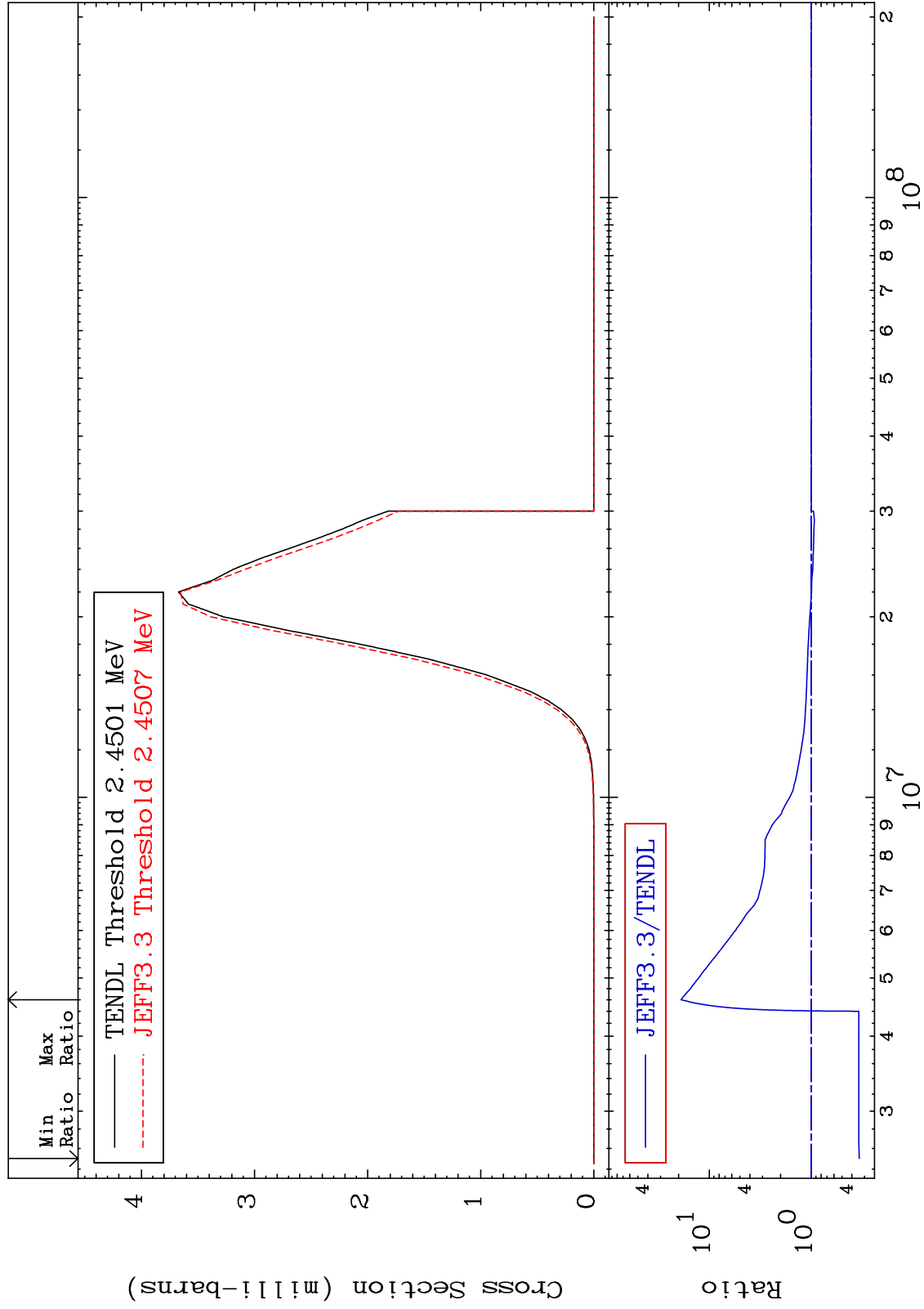
MAT 3449

(n, α)

³⁴Se-82

Cross Section

-66.21 To 1789. %



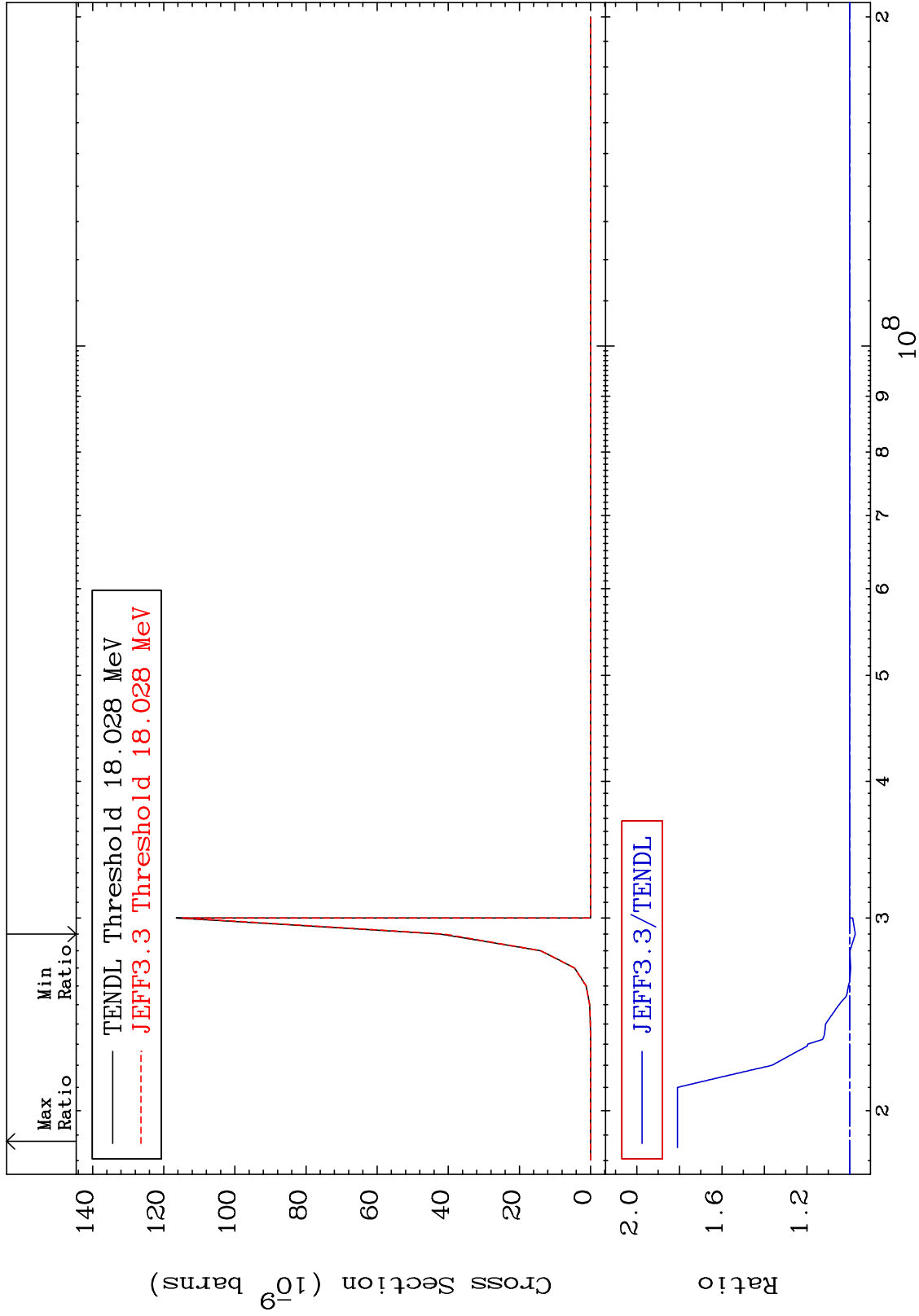
MAT 3449

(n,2p)

³⁴Se-82

Cross Section

-2.681 To 80.89 %



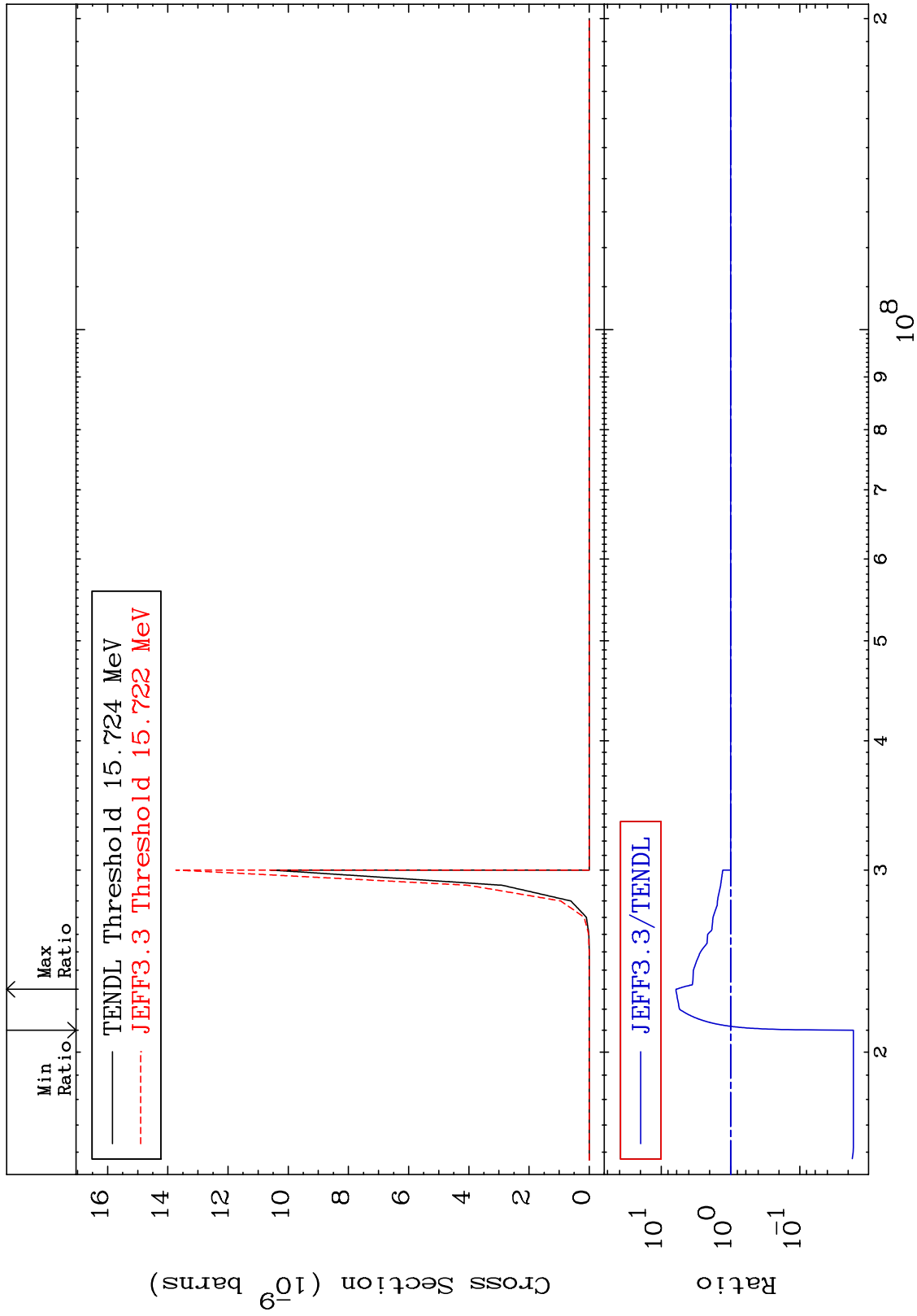
MAT 3449

(n,p) α

34-Se-82

Cross Section

-98.32 To 512.3 %



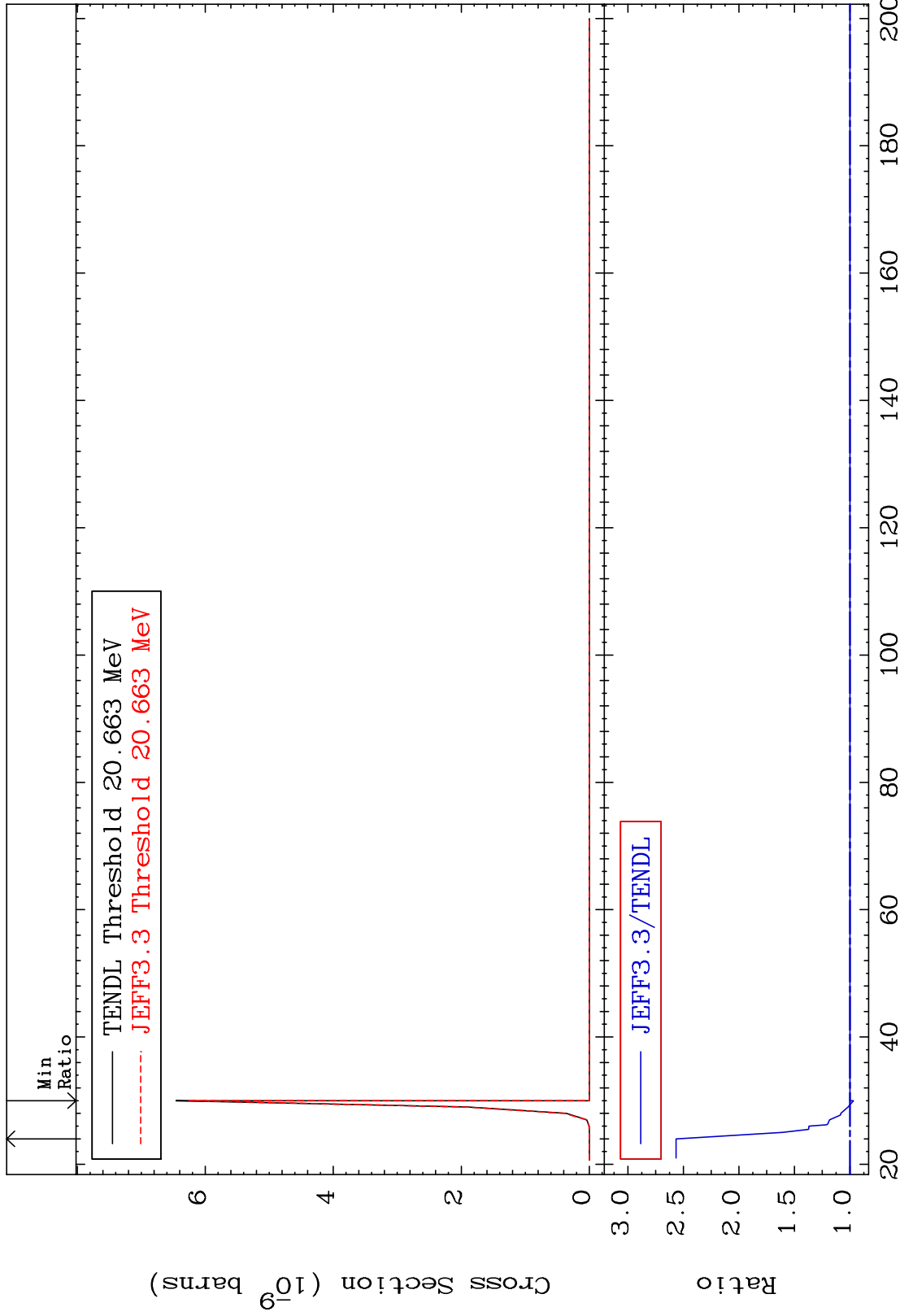
MAT 3449

(n,p) d

³⁴Se-82

Cross Section

-3.094 To 156.6 %



³⁴Se-82

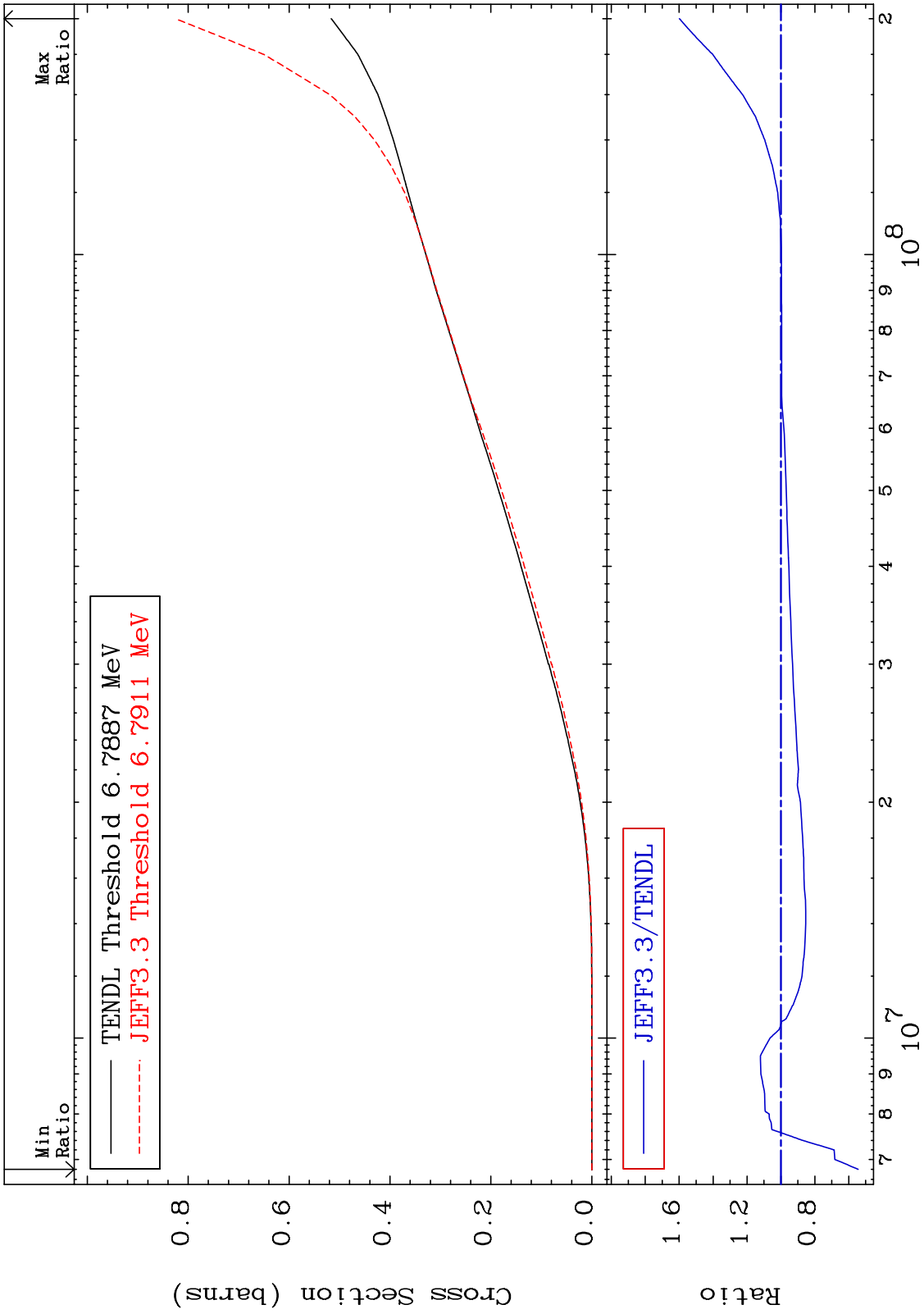
Incident Energy (MeV)

57

MAT 3449

Hydrogen Production
Cross Section

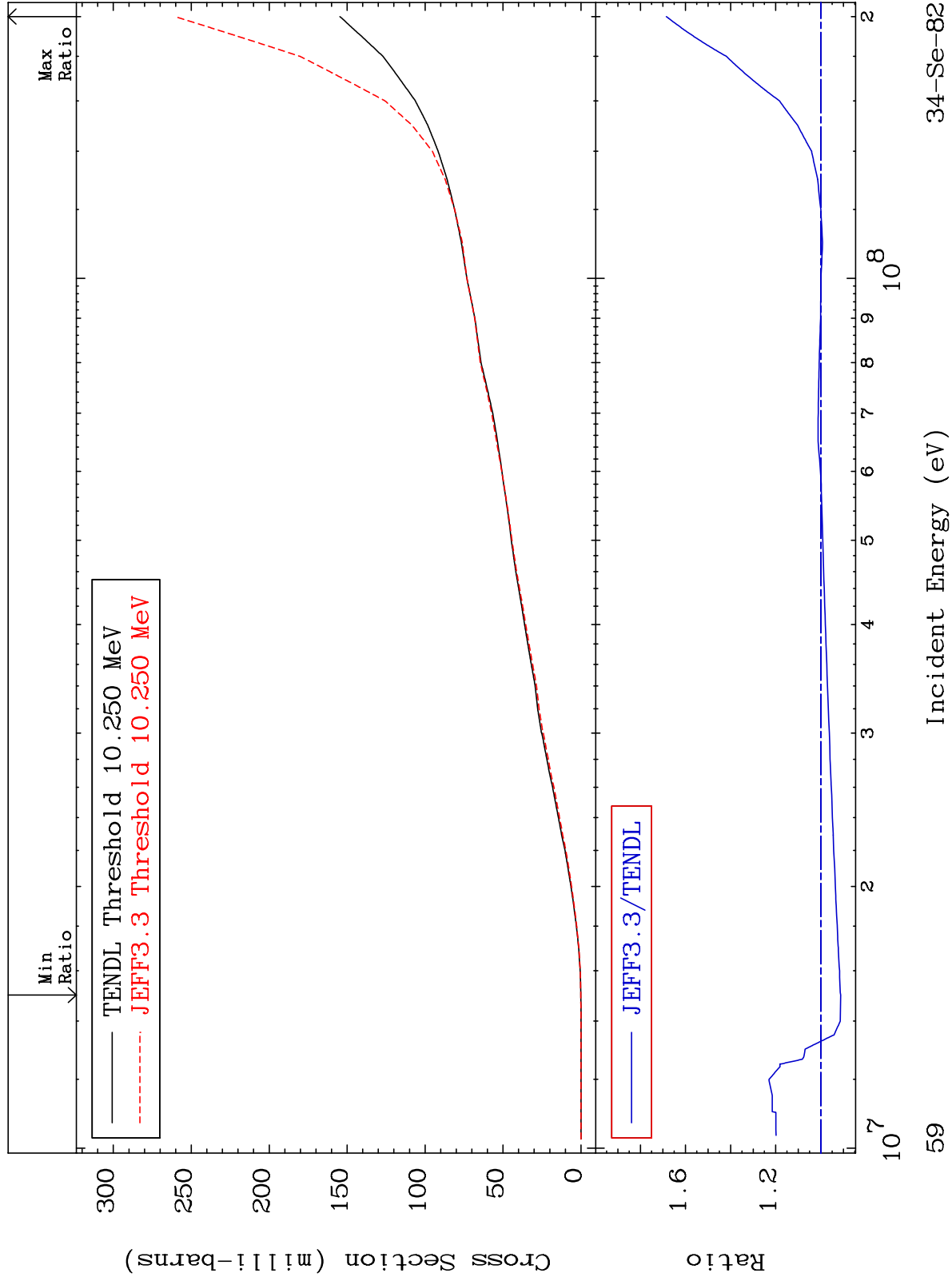
34-Se-82
-45.64 To 59.89 %



MAT 3449

Deuterium Production
Cross Section

34-Se-82
-8.814 To 68.49 %



59

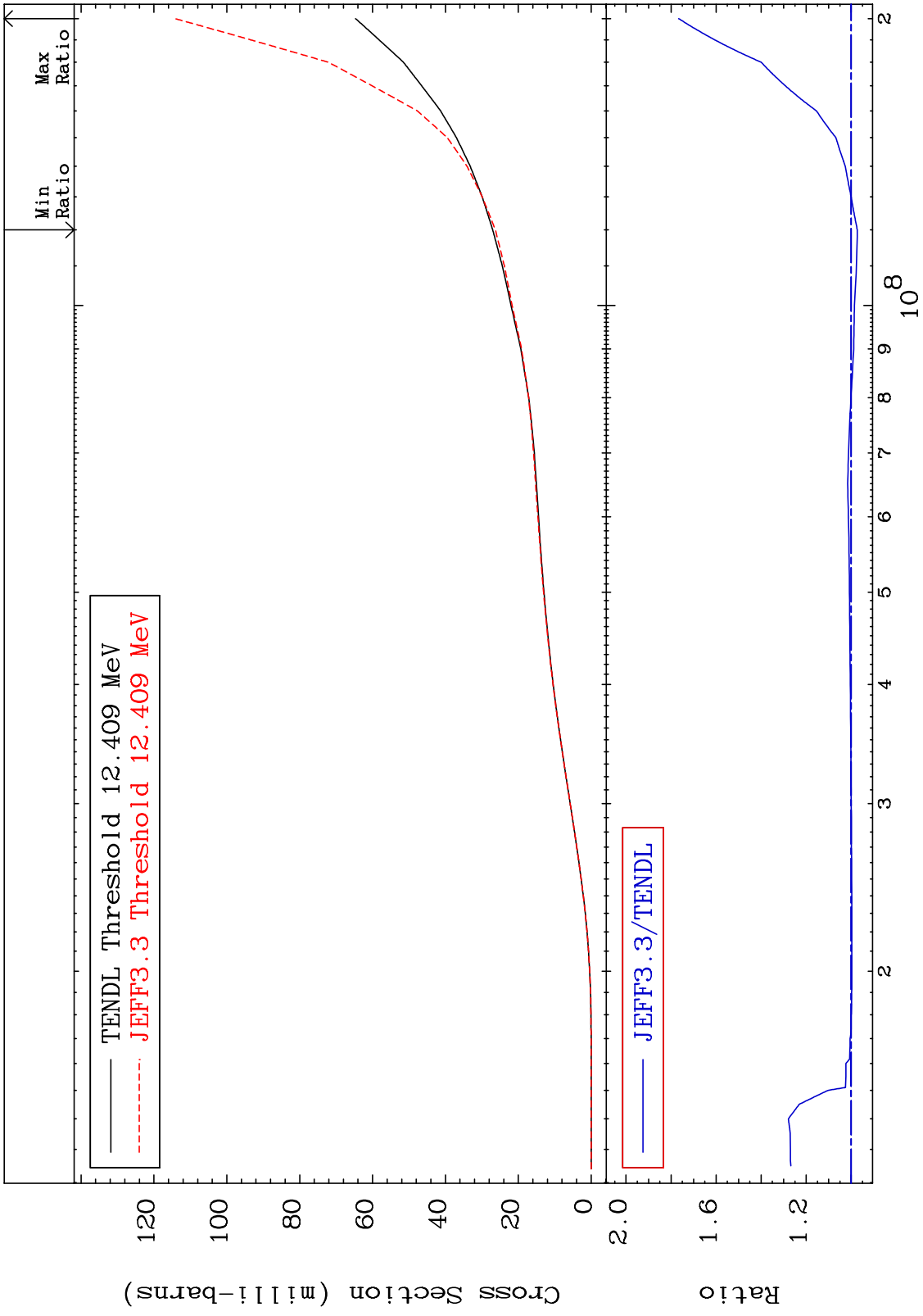
Incident Energy (eV)

34-Se-82

MAT 3449

Tritium Production
Cross Section

34-Se-82
-2.712 To 76.63 %



60

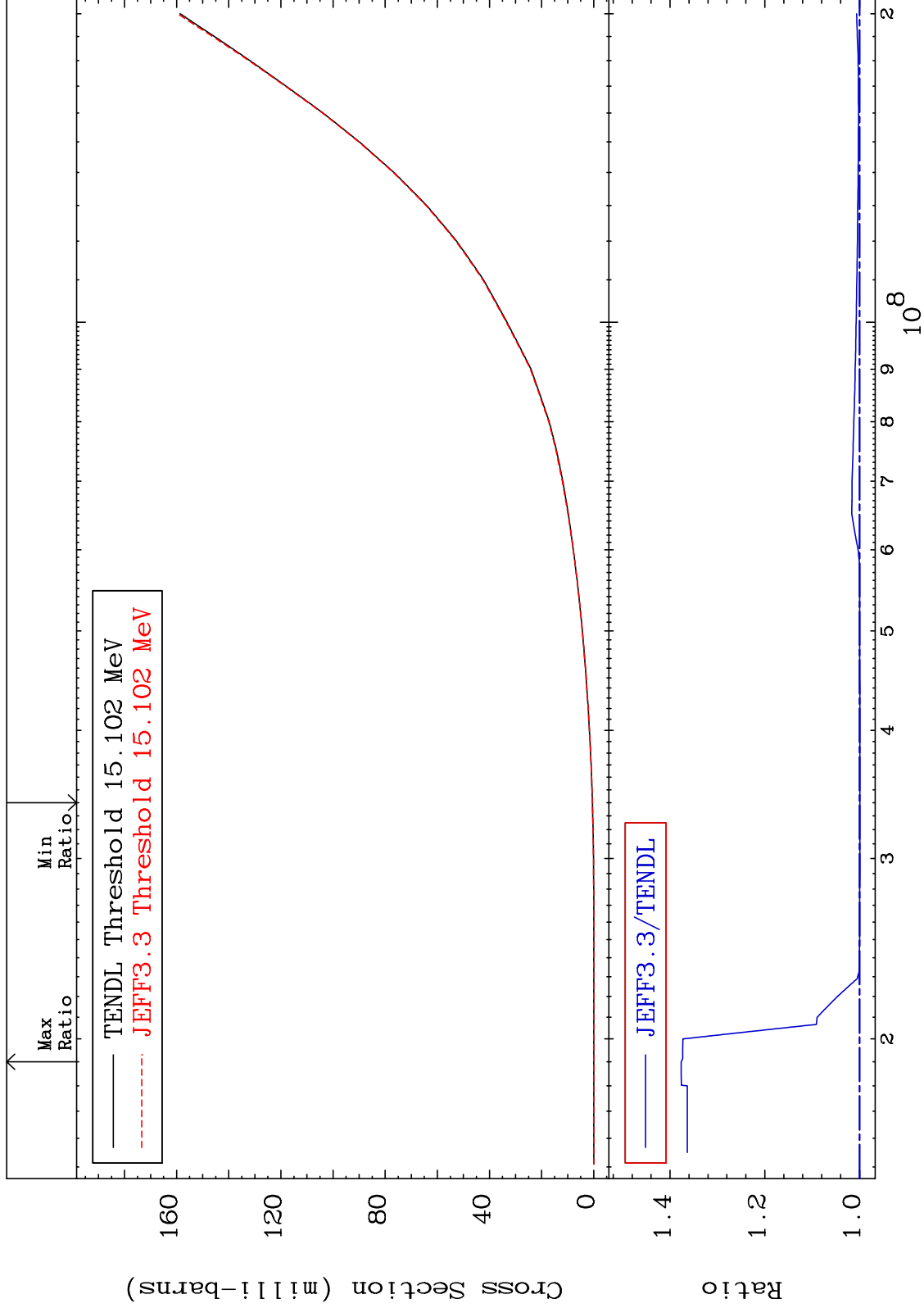
Incident Energy (eV)

34-Se-82

MAT 3449

He-3 Production
Cross Section

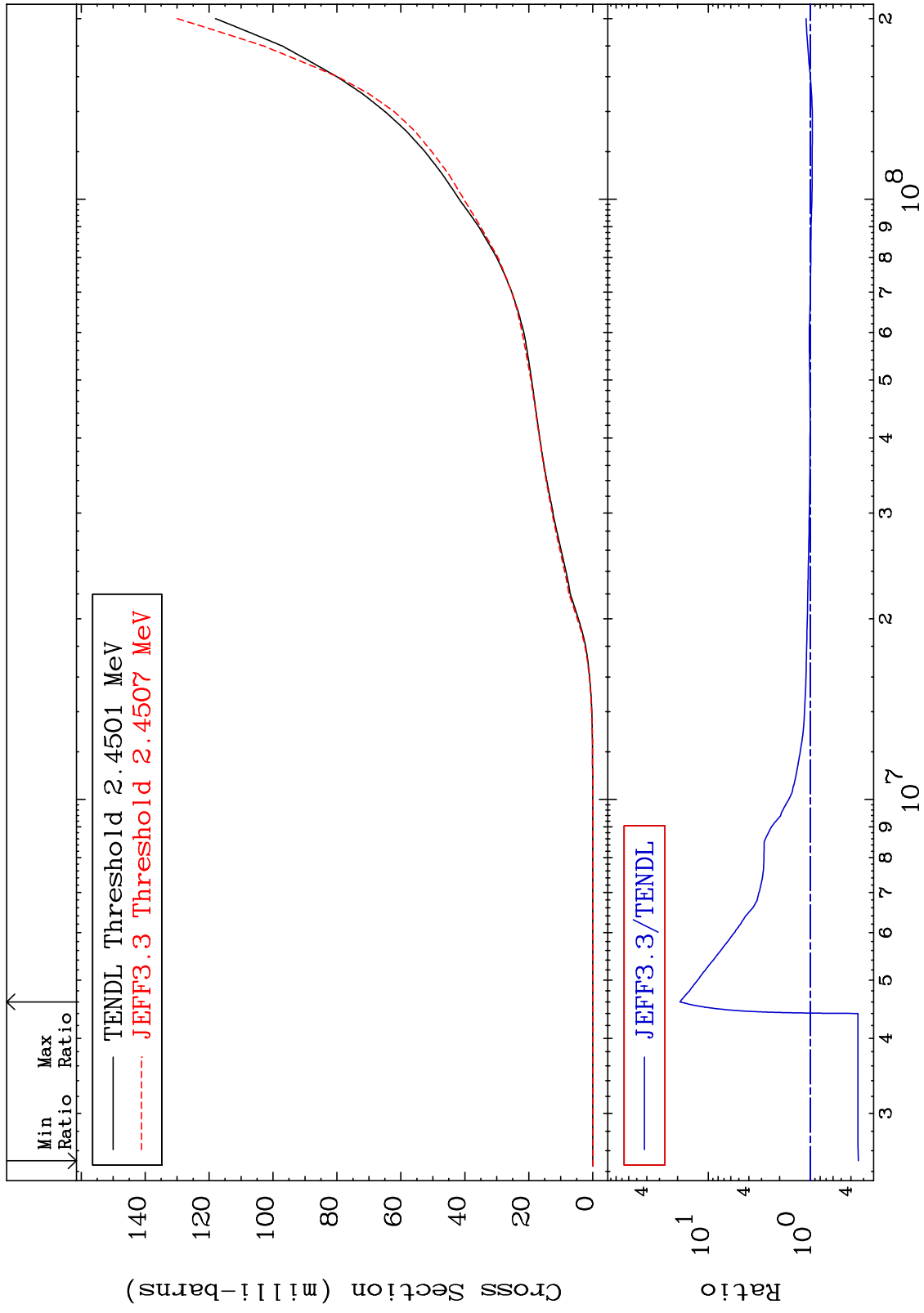
³⁴Se-82
-0.076 To 37.64 %



MAT 3449

He-4 Production
Cross Section

³⁴Se-82
-66.21 To 1789. %



62

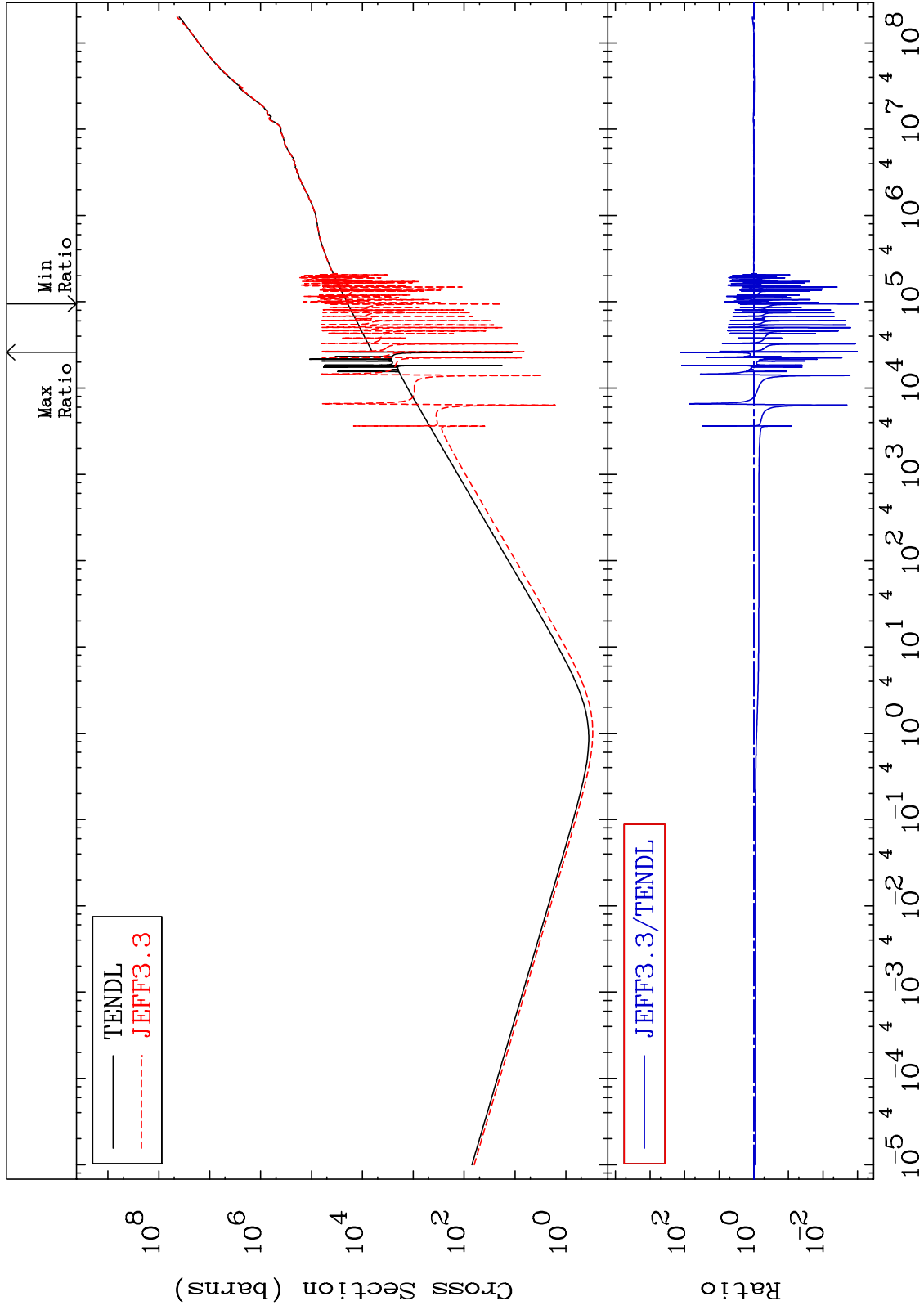
Incident Energy (eV)

³⁴Se-82

MAT 3449

Kerma total (eV-barns)
Cross Section

34-Se-82
-99.91 To 9999. %



63

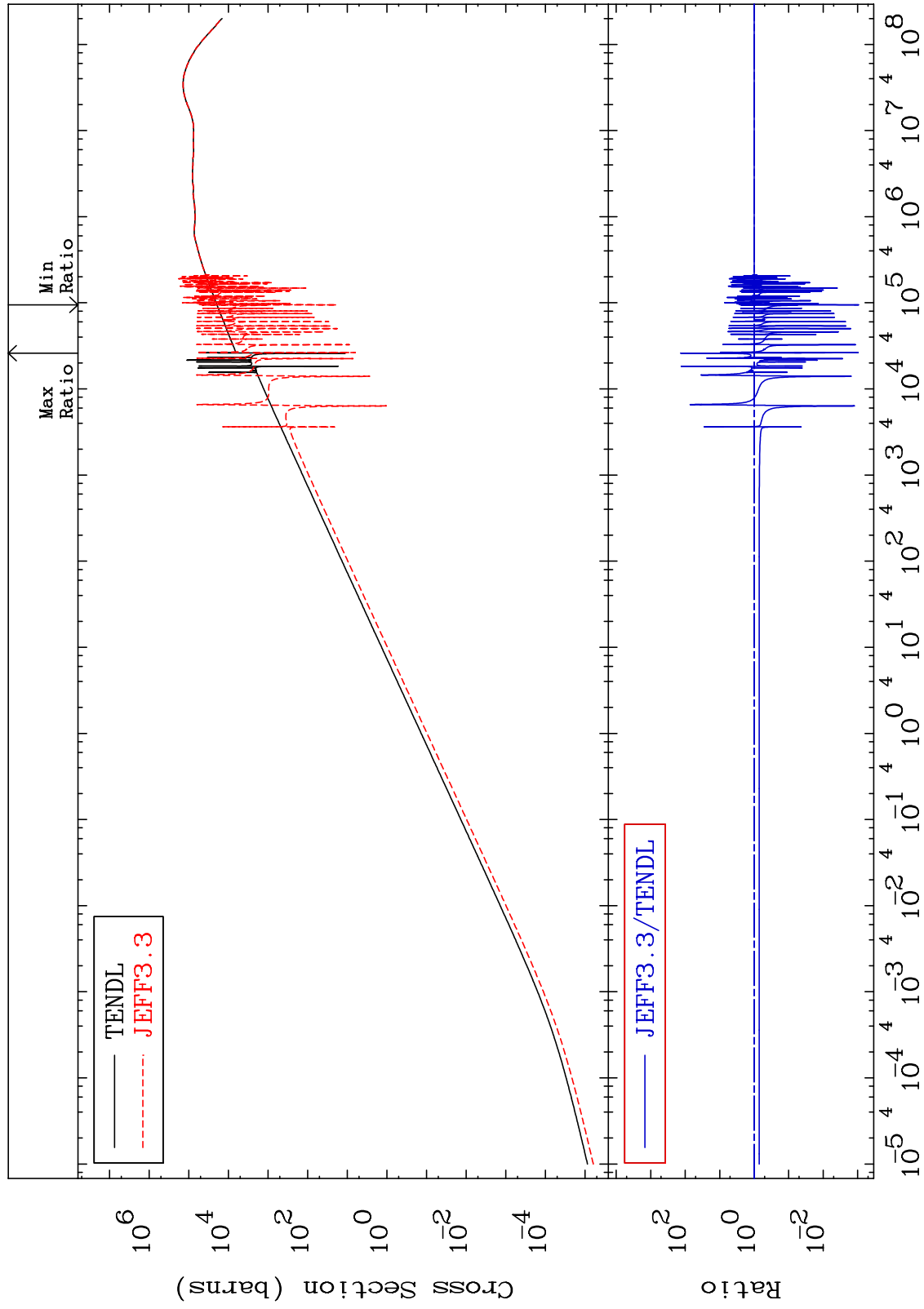
Incident Energy (eV)

34-Se-82

MAT 3449

Kerma elastic
Cross Section

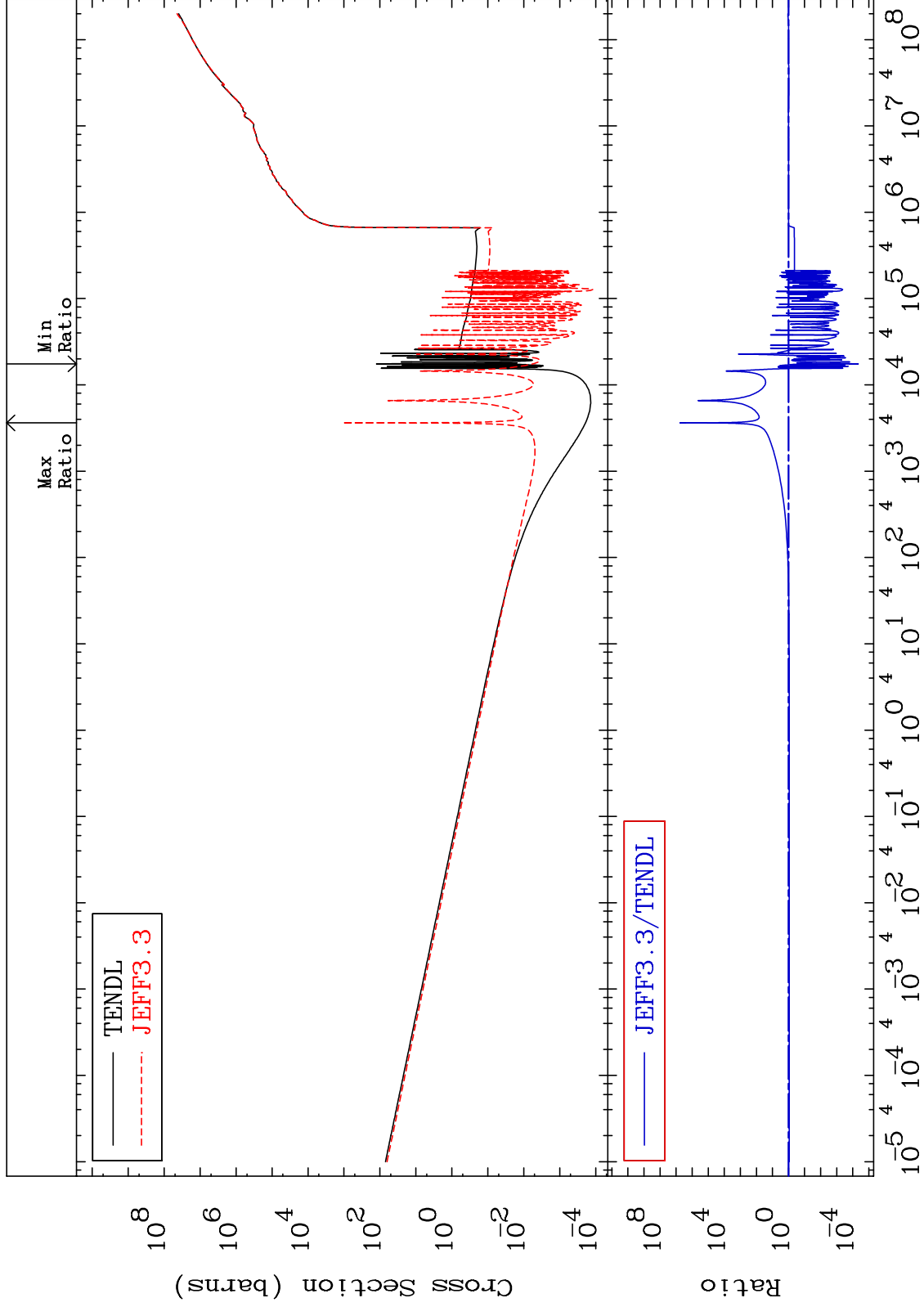
34-Se-82
-99.91 To 9999. %



MAT 3449

Kerma non-elastic (all but mt2)
Cross Section

34-Se-82
-100.0 To 9999. %



65

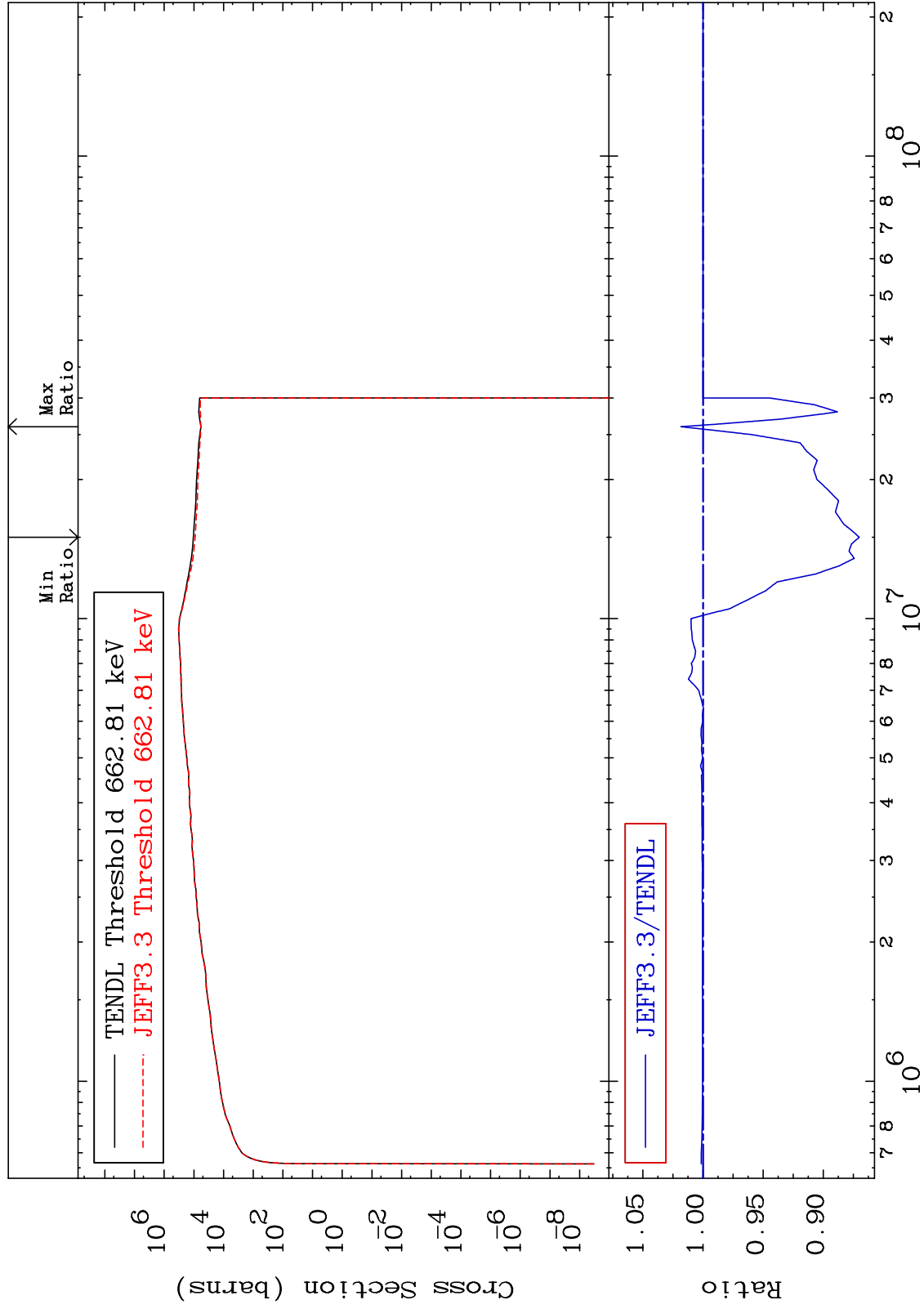
Incident Energy (eV)

34-Se-82

MAT 3449

Kerma inelastic (mt51-91)
Cross Section

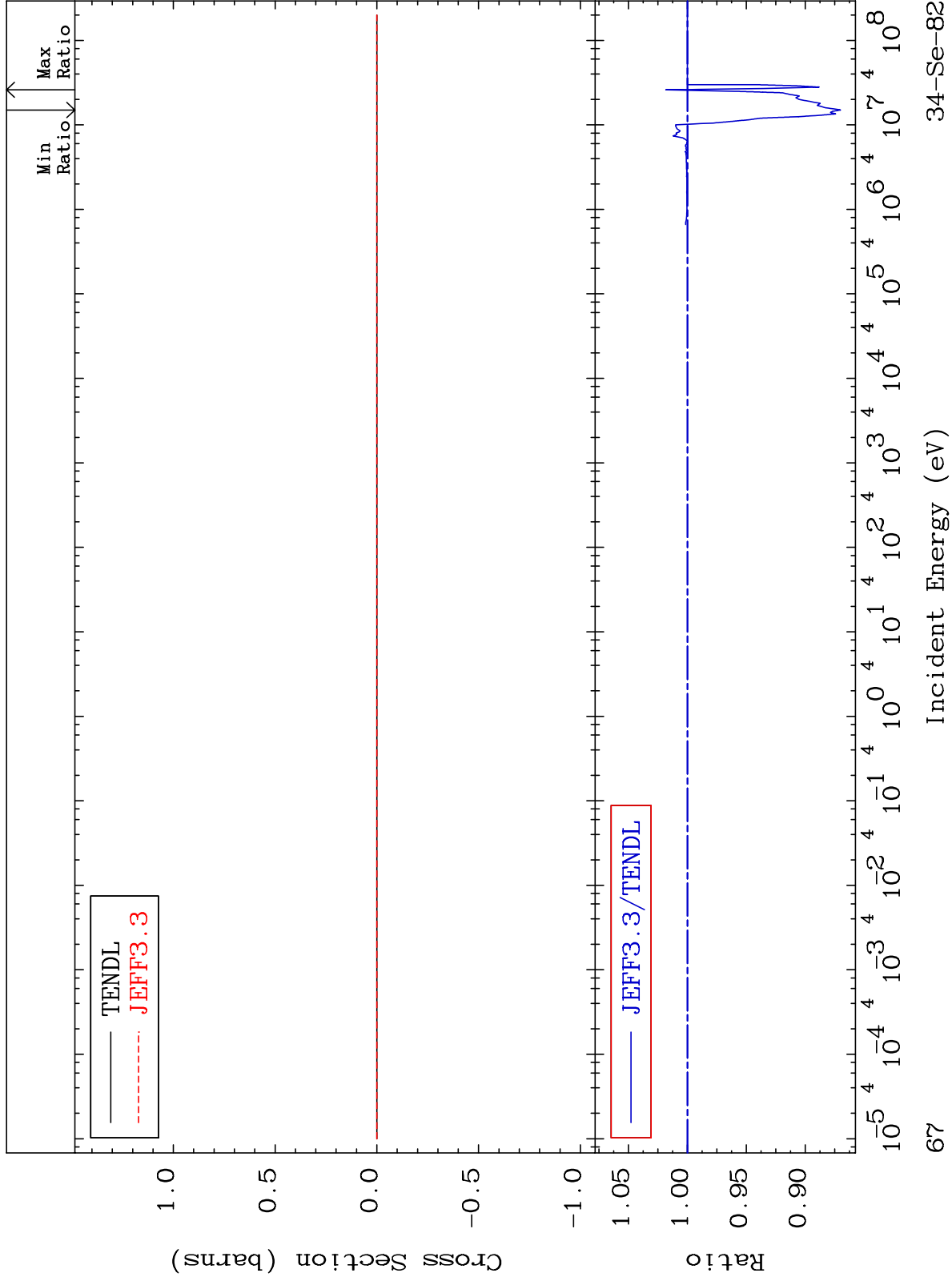
34-Se-82
-12.99 To 1.829 %



MAT 3449

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

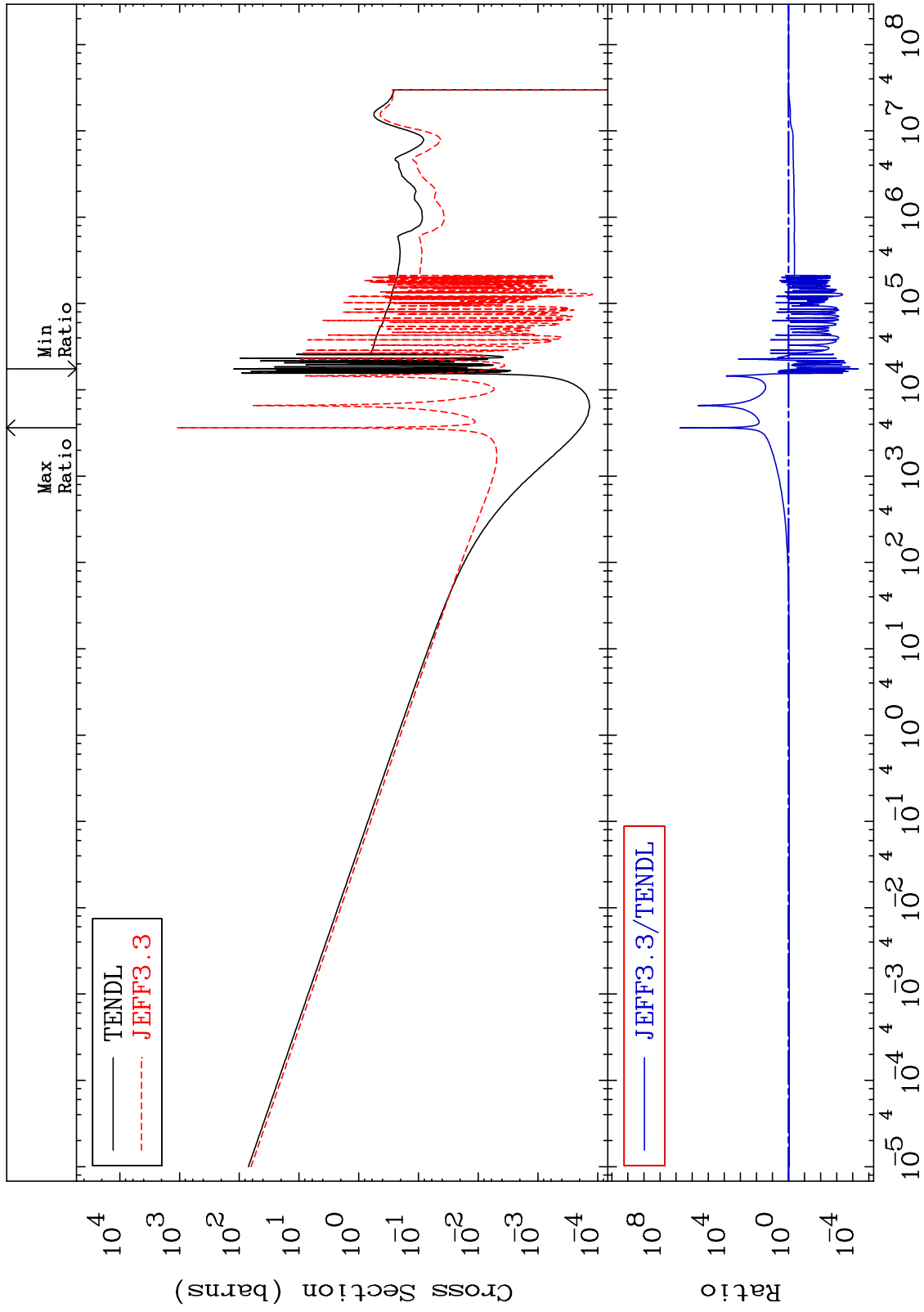
34-Se-82
-12.99 To 1.829 %



MAT 3449

Kerma capture (mt102)
Cross Section

34-Se-82
-100.0 To 9999. %



68

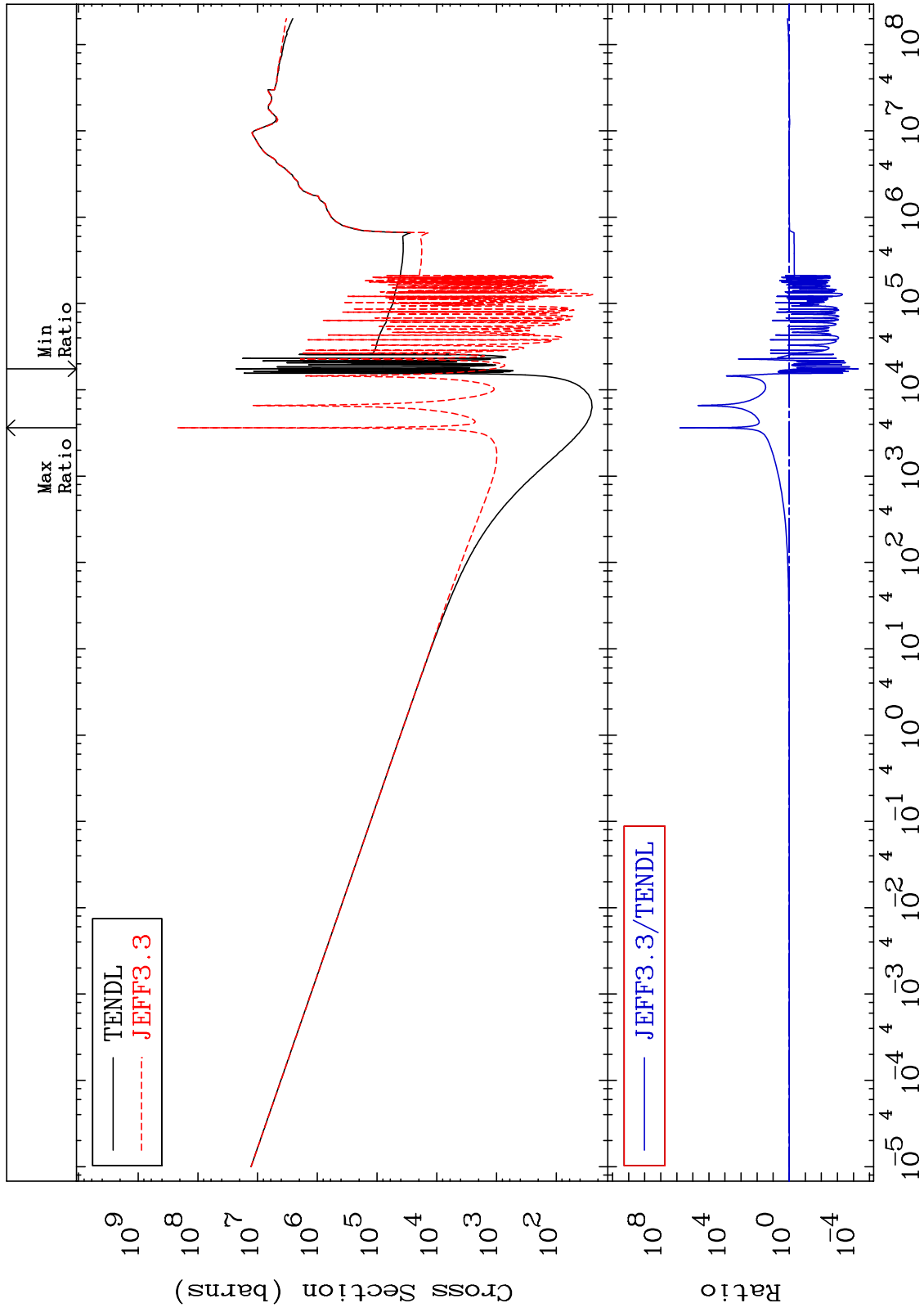
Incident Energy (eV)

34-Se-82

MAT 3449

Total photon (eV-barns)
Cross Section

34-Se-82
-100.0 To 9999. %



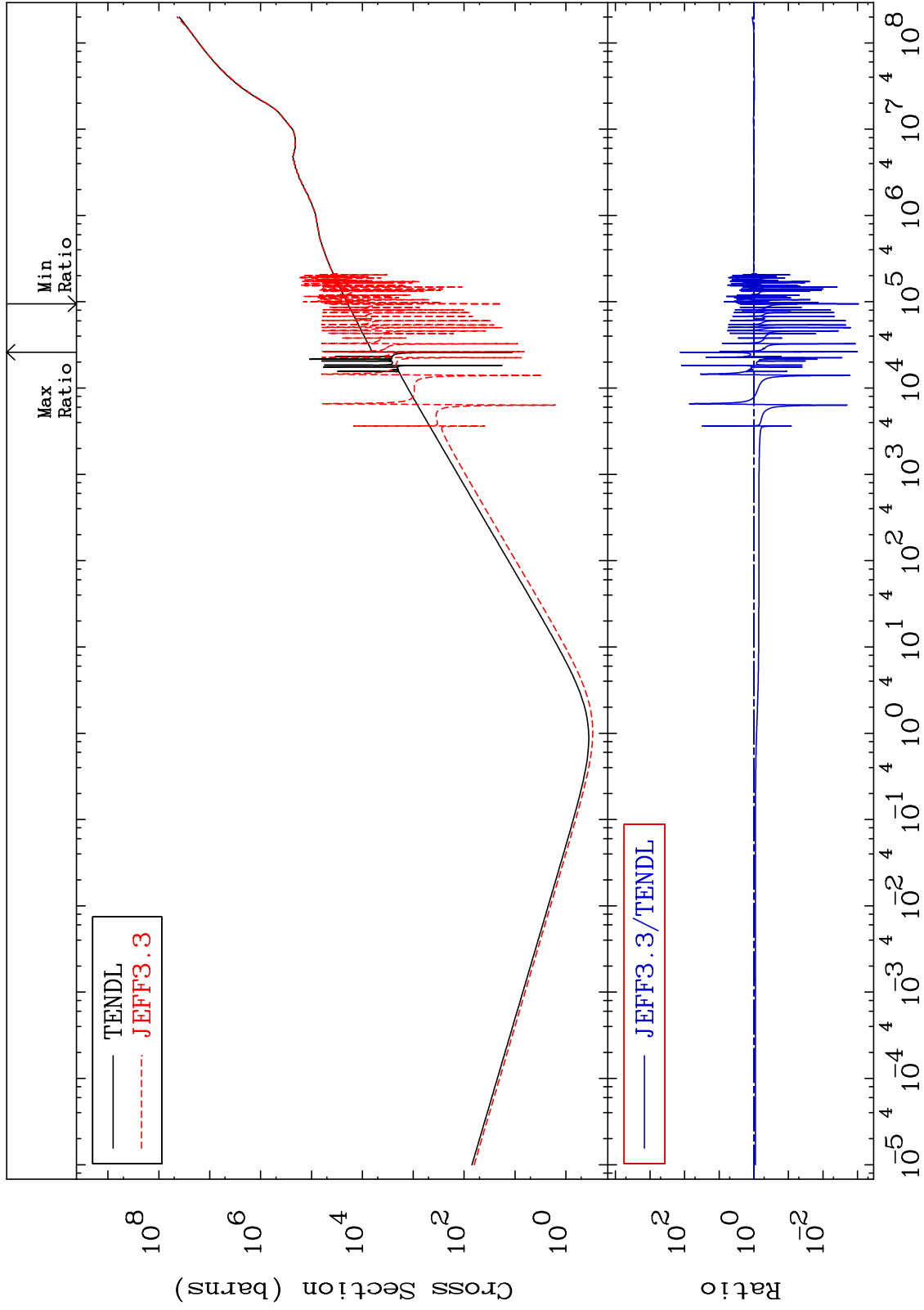
— TENDL
- - - JEFF3.3

— JEFF3.3/TENDL

MAT 3449

Total kinematic kerma (high limit)
Cross Section

34-Se-82
-99.91 To 9999. %



70

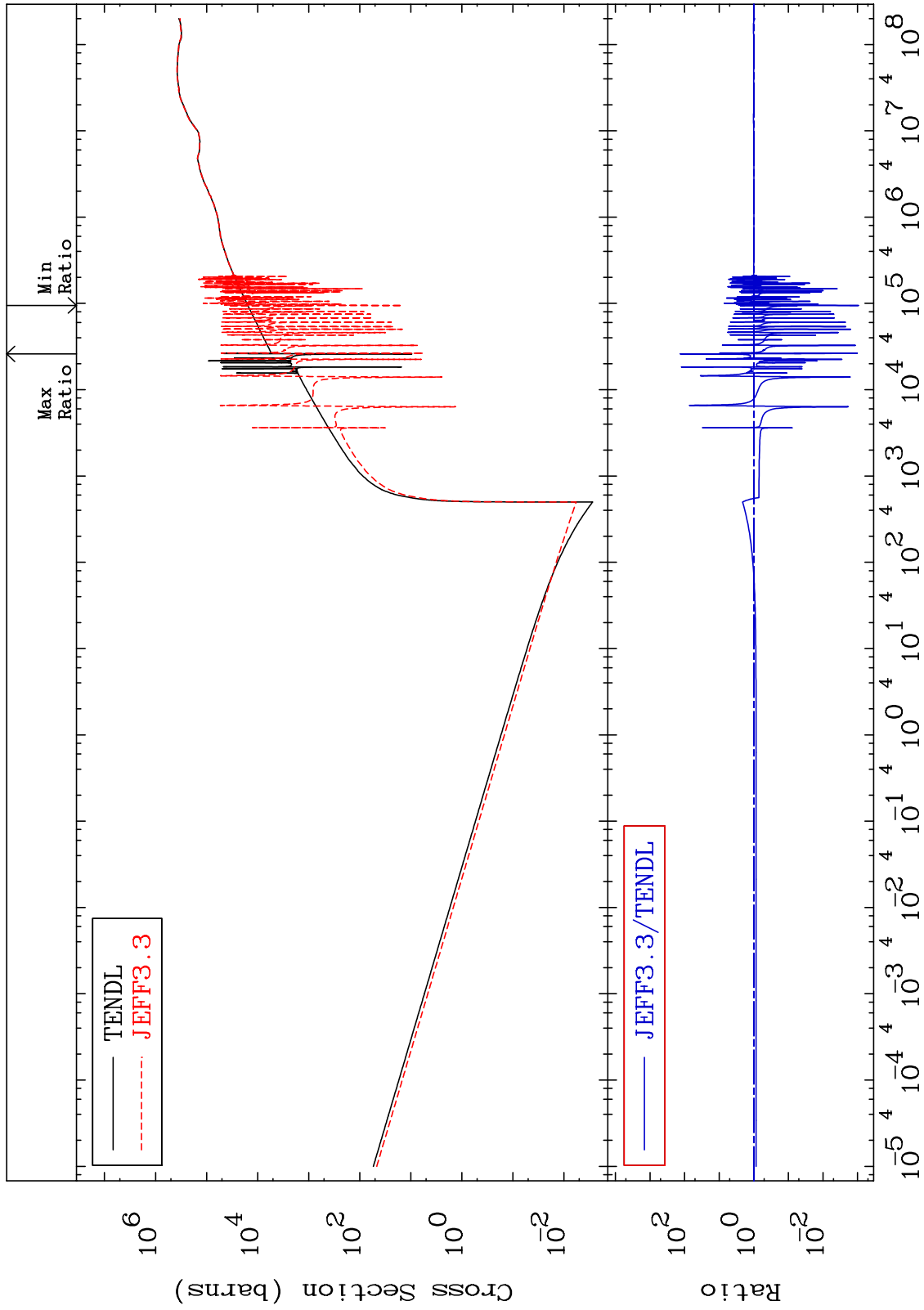
Incident Energy (eV)

34-Se-82

MAT 3449

Dpa total (eV-barns)
Cross Section

34-Se-82
-99.91 To 9999. %



71

Incident Energy (eV)

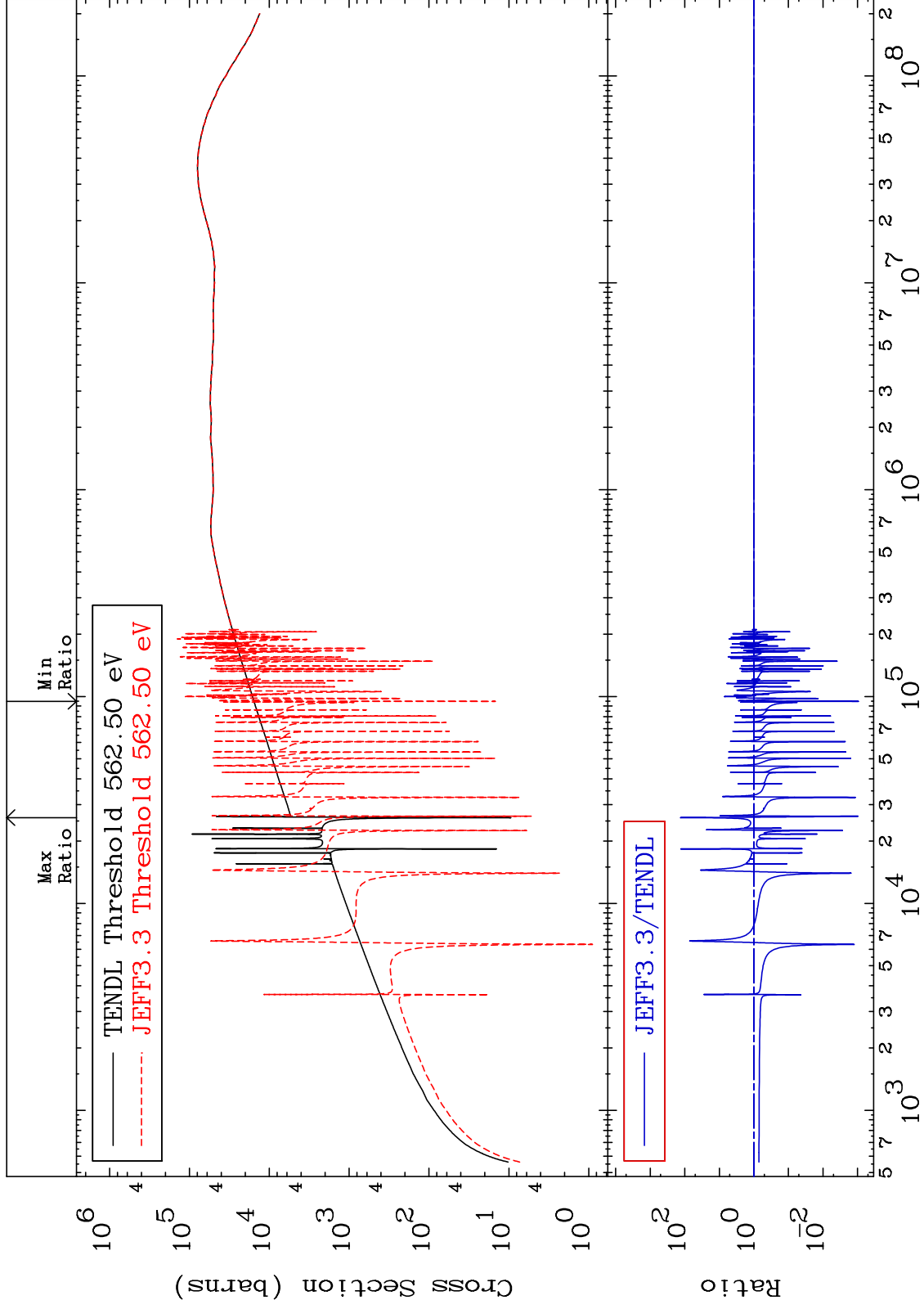
34-Se-82

MAT 3449

Dpa elastic (mt2)
Cross Section

34-Se-82

-99.91 To 9999. %



72

Incident Energy (eV)

34-Se-82

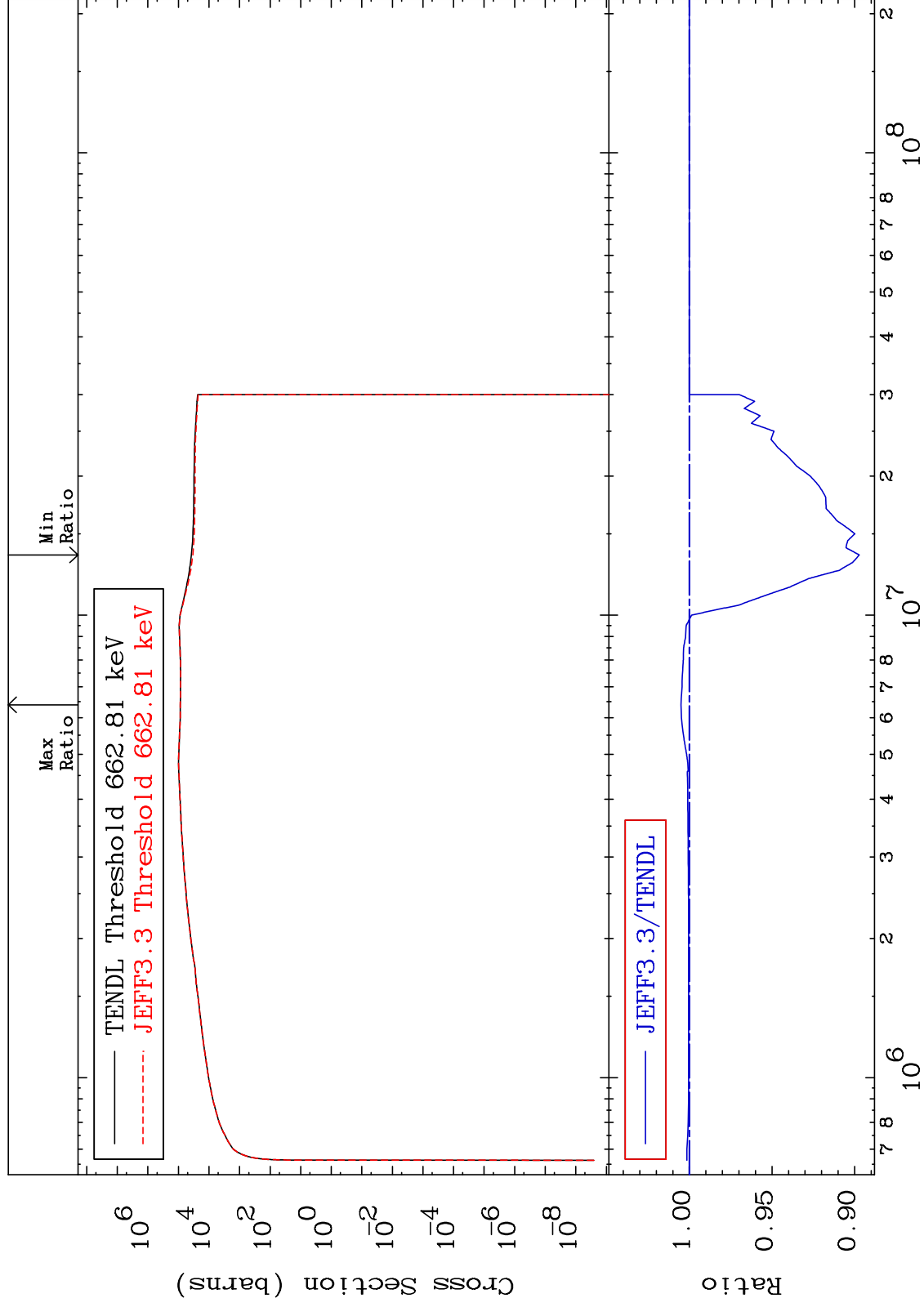
MAT 3449

Dpa inelastic (mt51-91)

34-Se-82

-10.28 To 0.503 %

Cross Section



73

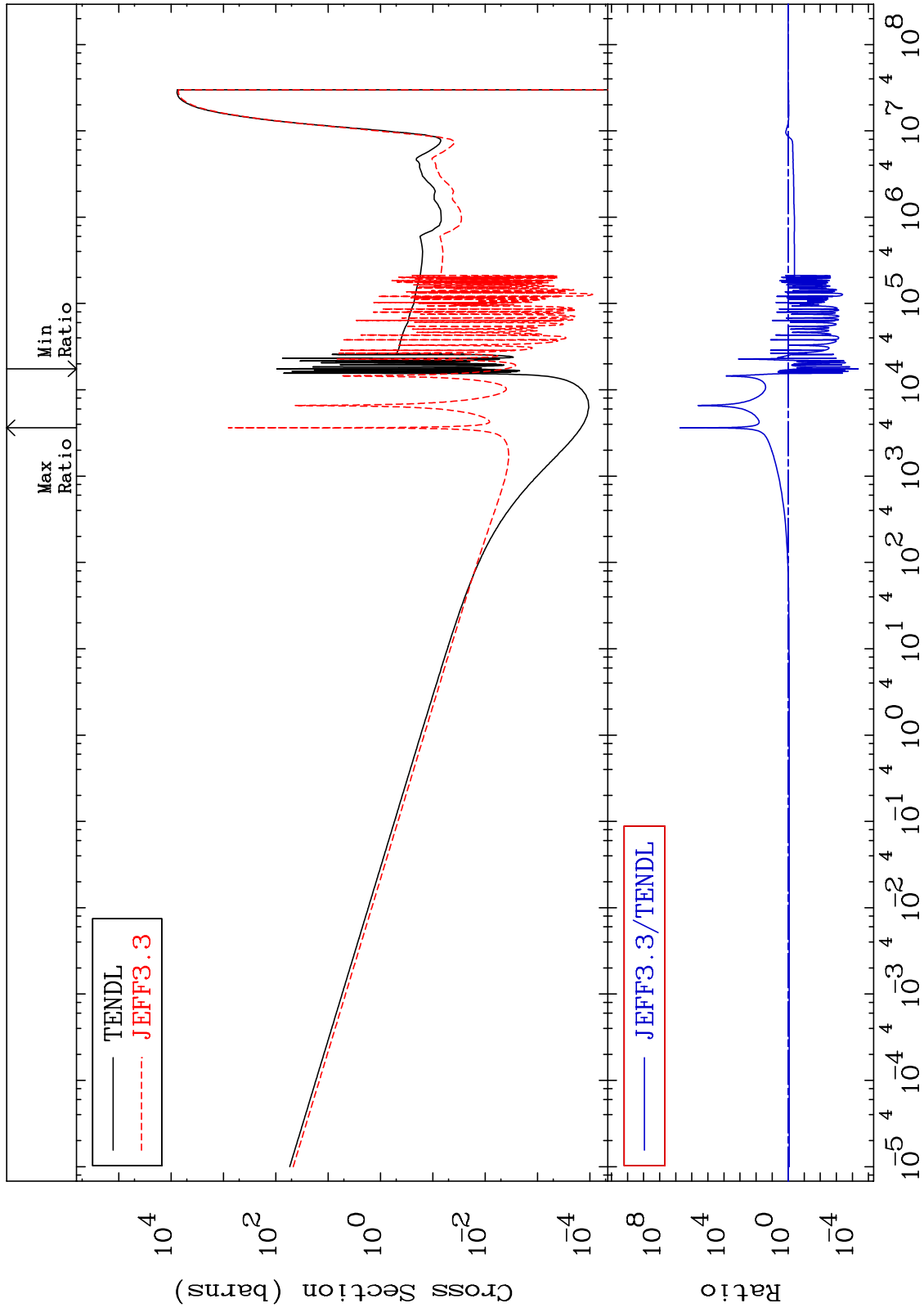
Incident Energy (eV)

34-Se-82

MAT 3449

Dpa disappearance (mt102 -120)
Cross Section

34-Se-82
-100.0 To 9999. %



74

Incident Energy (eV)

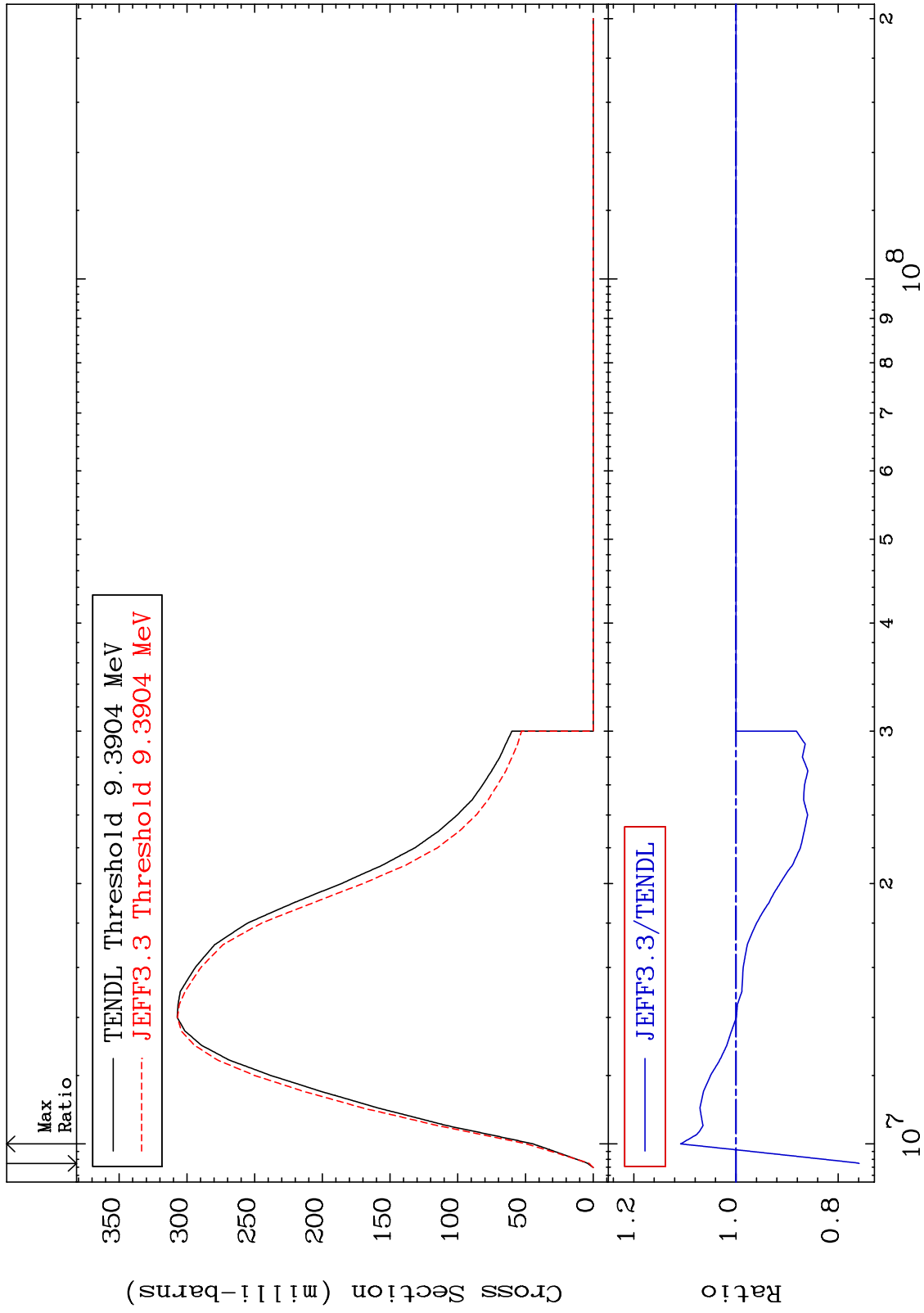
34-Se-82

MAT 3449

(n,2n):34-Se-81g

34-Se-82

Radionuclide Production Cross Section -24.11 To 10.83 %



Incident Energy (eV)

34-Se-82

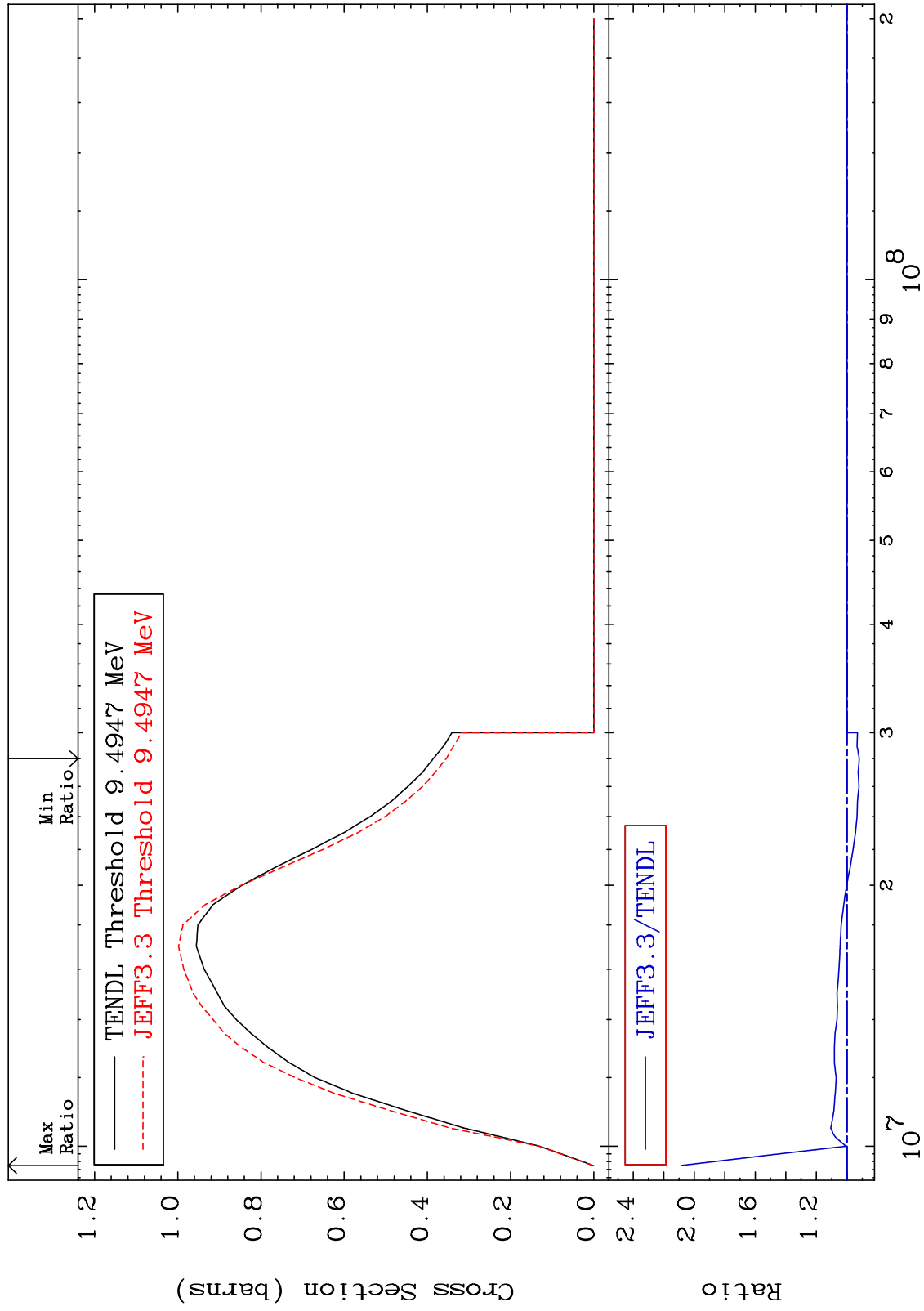
75

MAT 3449

(n,2n):34-Se-81m1

34-Se-82

Radionuclide Production Cross Section -8.086 To 108.7 %



34-Se-82

Incident Energy (eV)

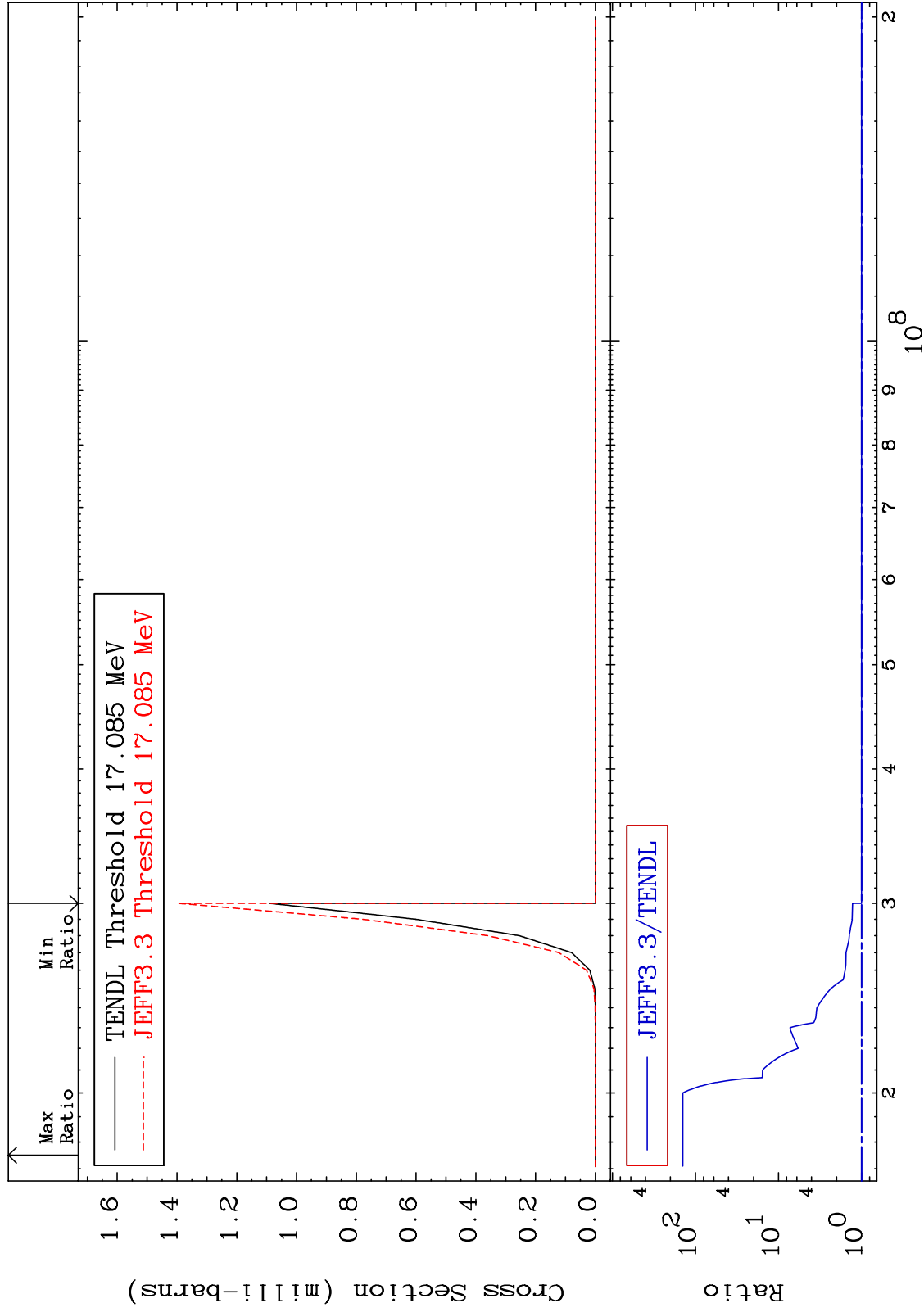
76

MAT 3449

(n,2n) α :32-Ge-77g

34-Se-82

Radionuclide Production Cross Section 0.000 To 9999. %



77

Incident Energy (eV)

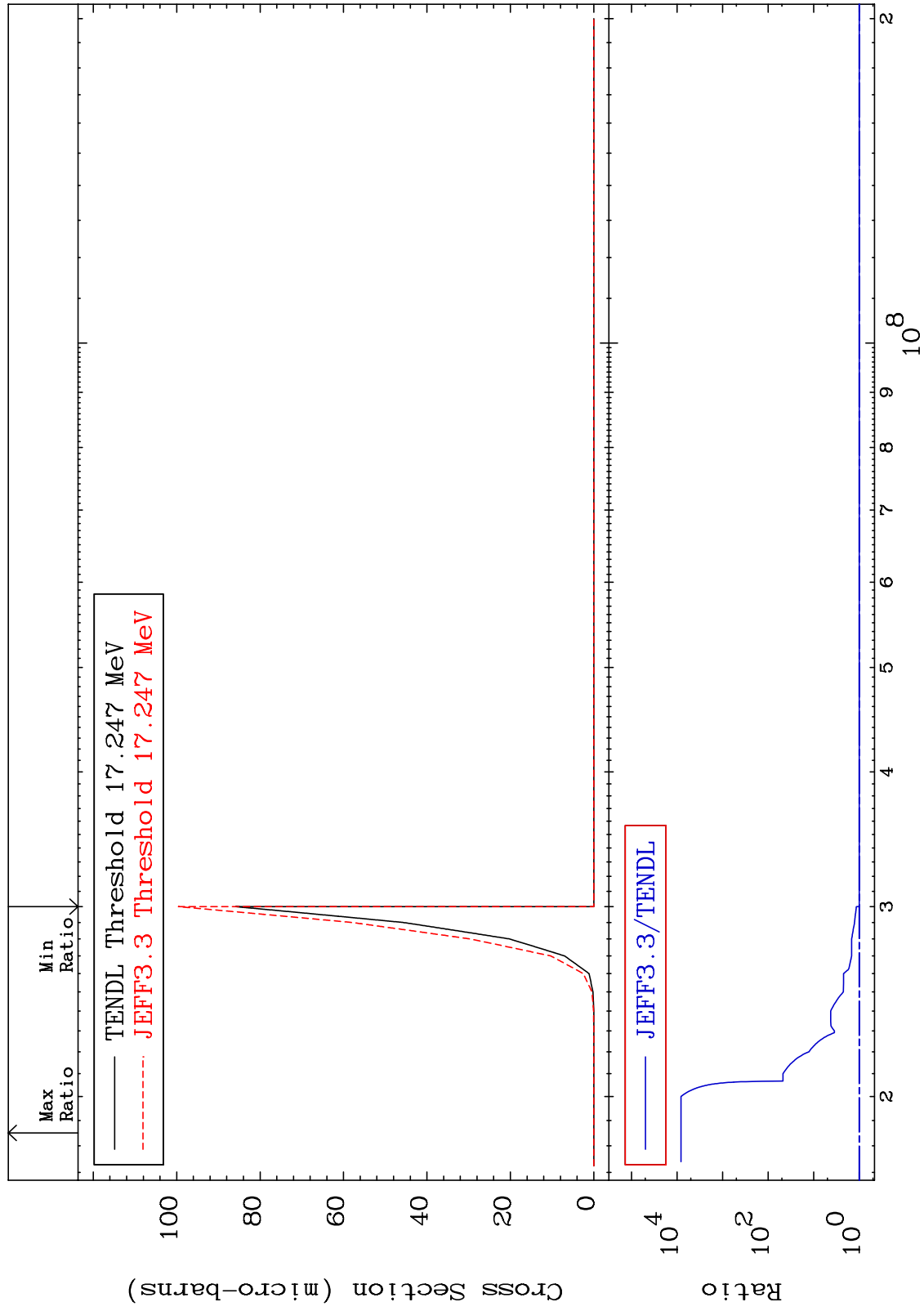
34-Se-82

MAT 3449

(n,2n) α :32-Ge-77m1

34-⁸²Se

Radionuclide Production Cross Section 0.000 To 9999. %



78

Incident Energy (eV)

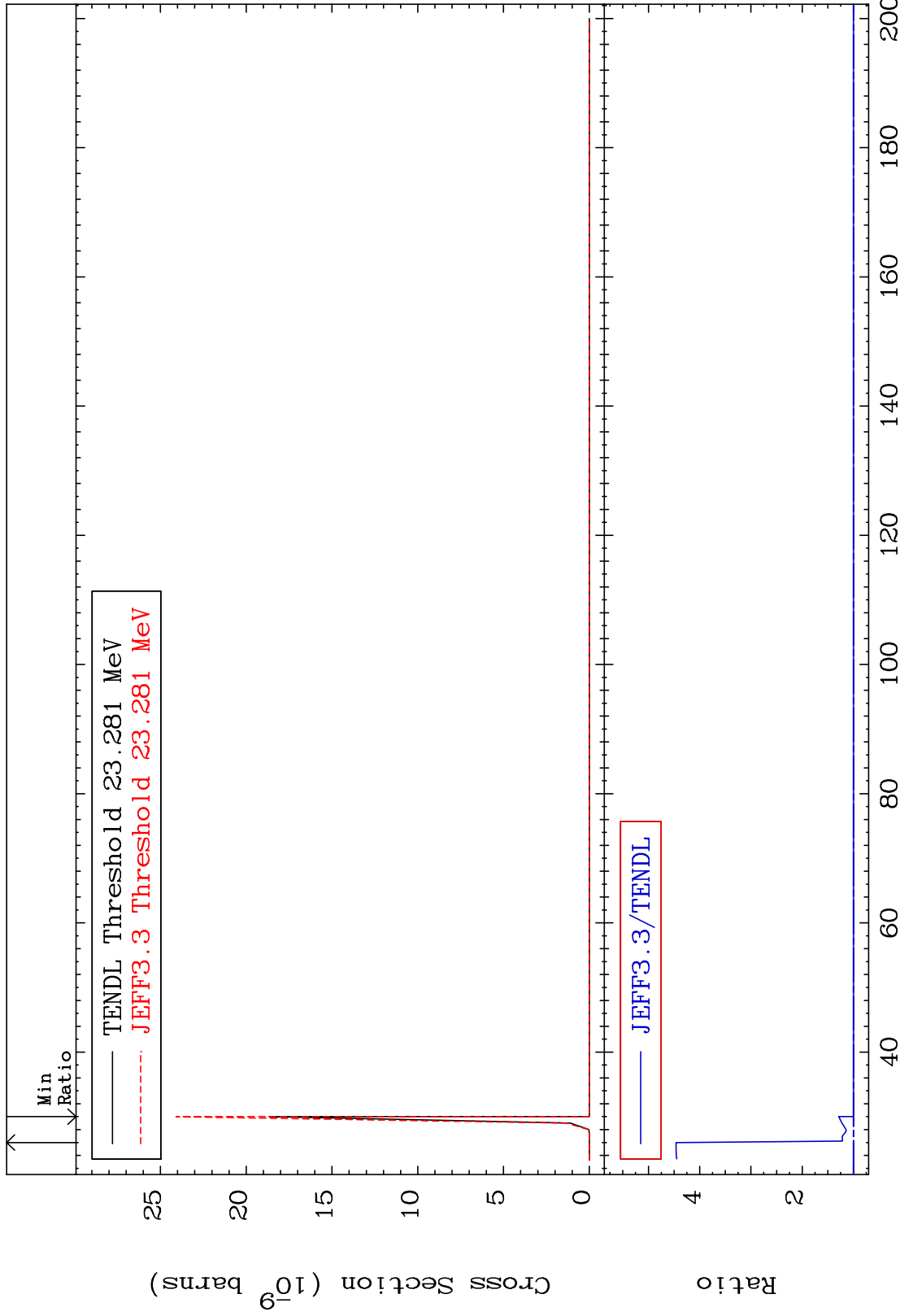
34-⁸²Se

MAT 3449

(n, n') He-3:32-Ge-79g

34-Se-82

Radionuclide Production Cross Section 0.000 To 346.0 %



79

Incident Energy (MeV)

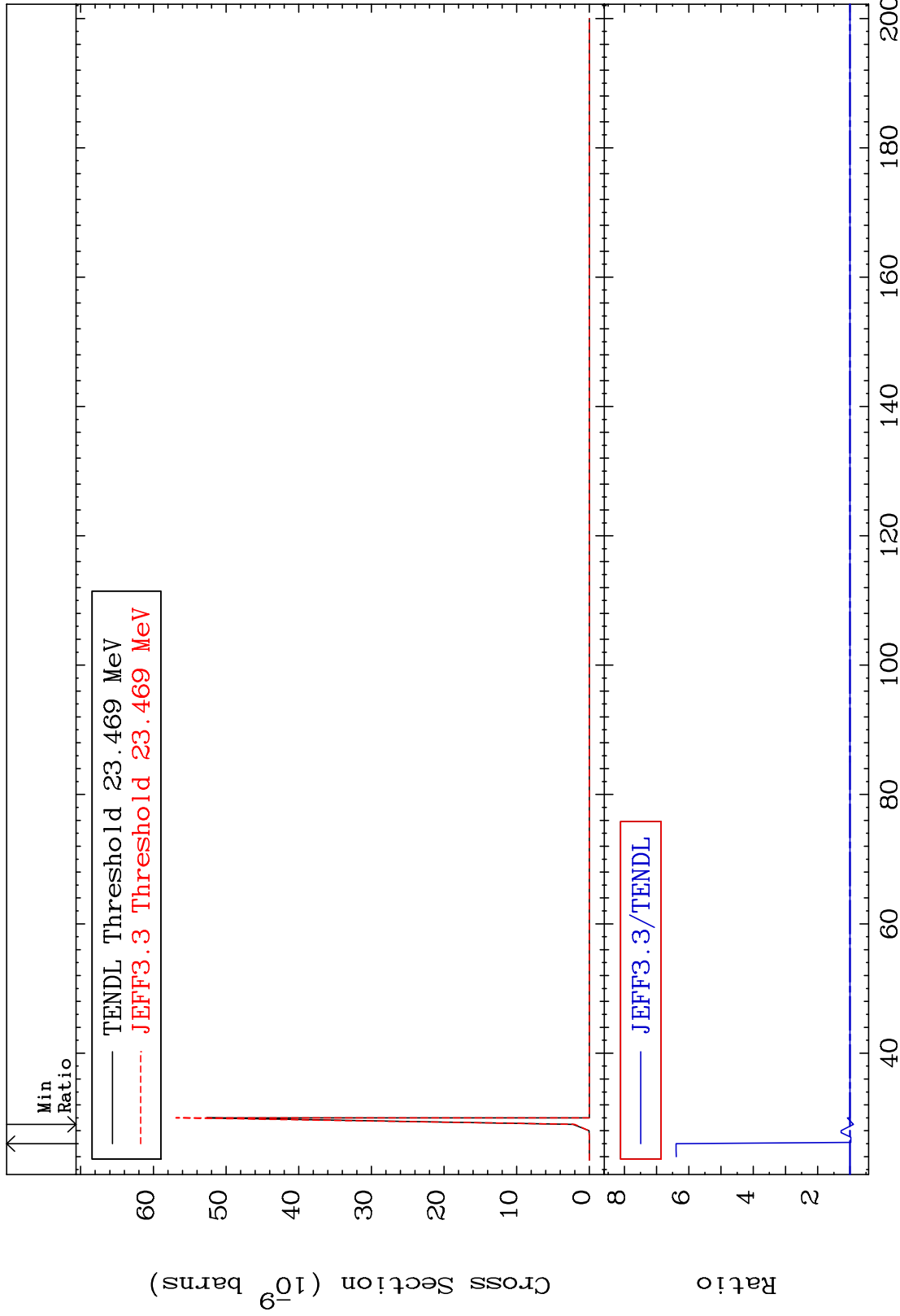
34-Se-82

MAT 3449

(n, n') He-3:32-Ge-79m1

34-Se-82

Radionuclide Production Cross Section -10.91 To 539.4 %



80

Incident Energy (MeV)

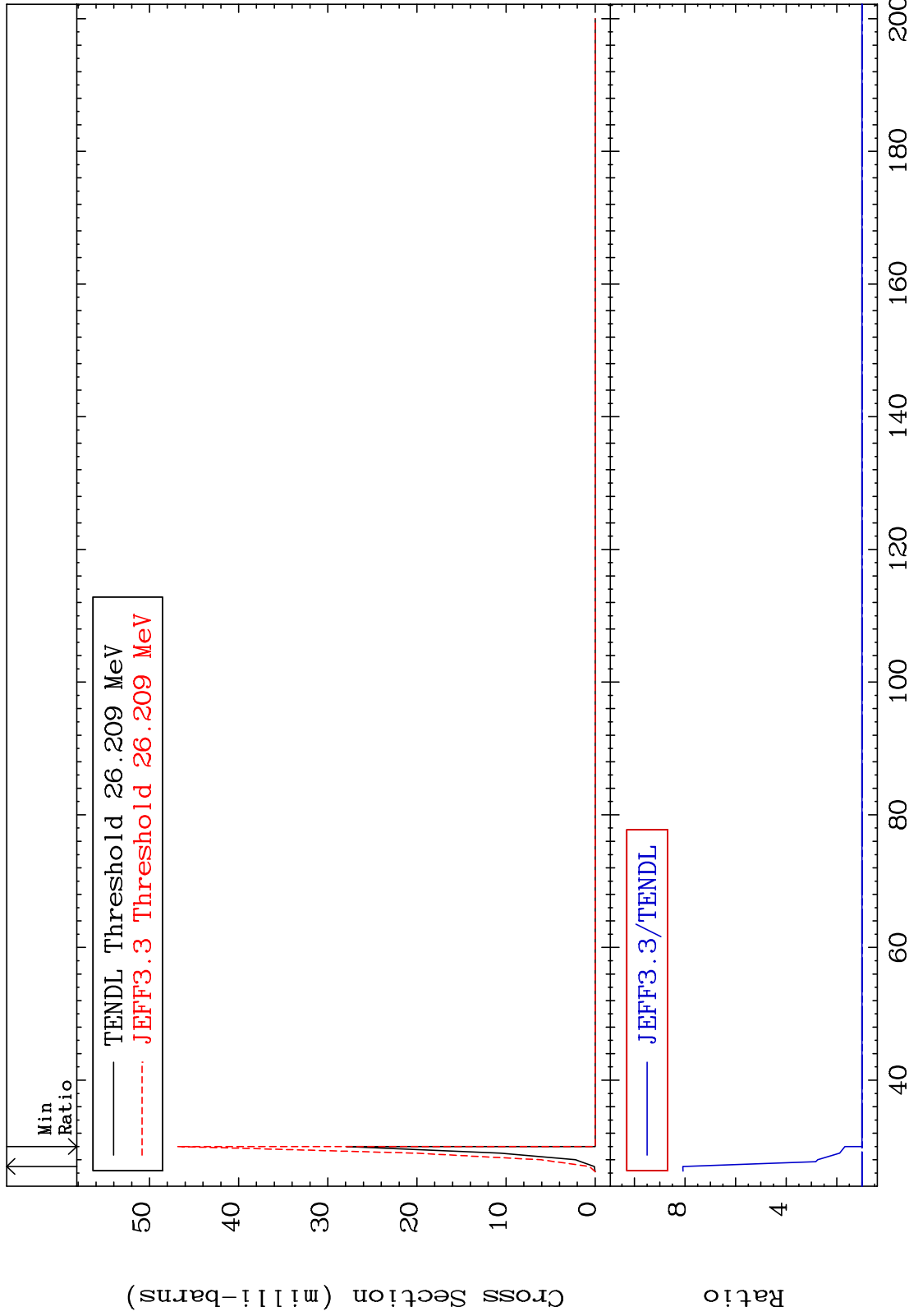
34-Se-82

MAT 3449

(n, 4n) : 34-Se-79g

34-Se-82

Radionuclide Production Cross Section 0.000 To 708.5 %



81

Incident Energy (MeV)

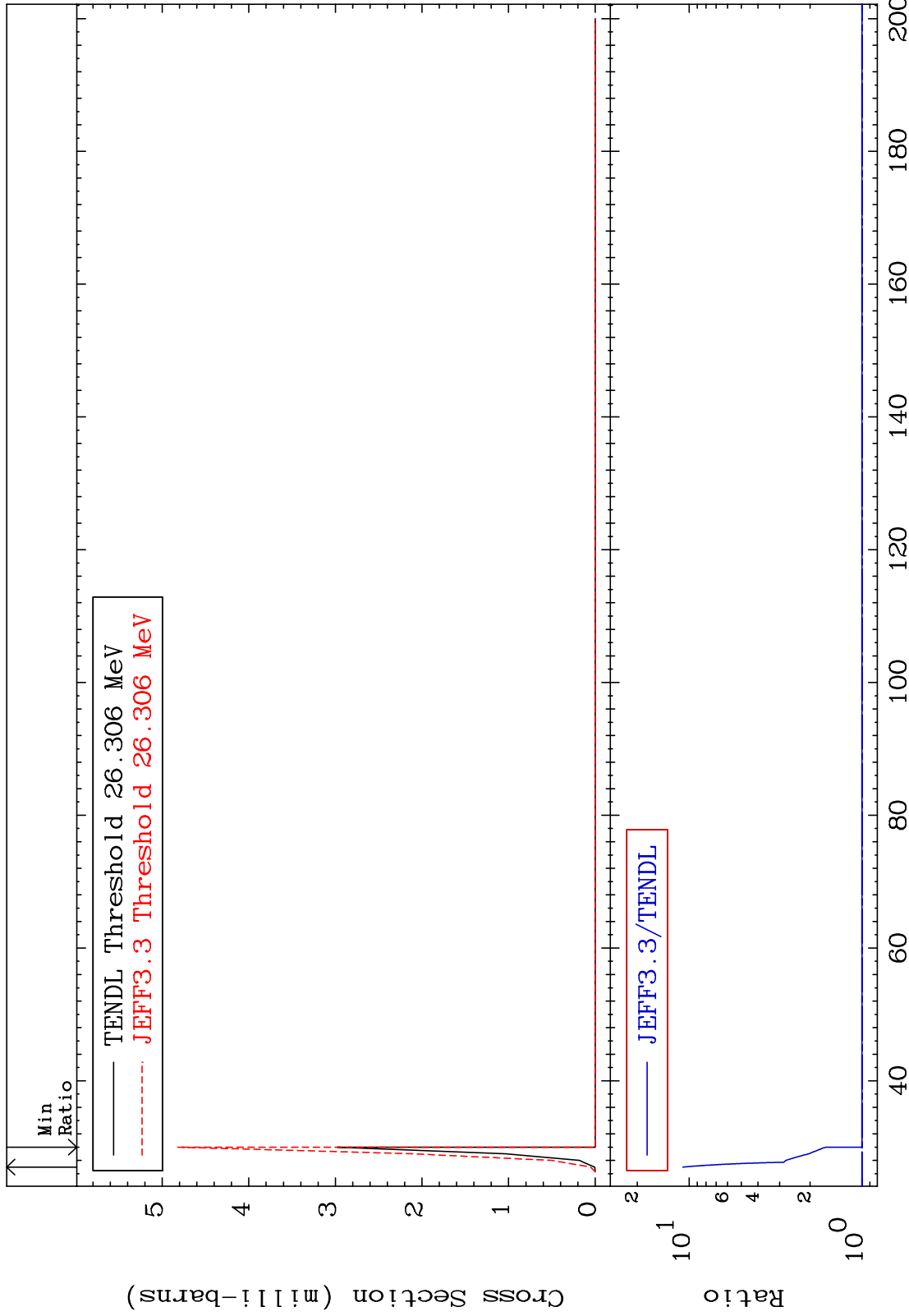
34-Se-82

MAT 3449

(n,4n):34-Se-79m1

34-Se-82

Radionuclide Production Cross Section 0.000 To 988.8 %



82

Incident Energy (MeV)

34-Se-82

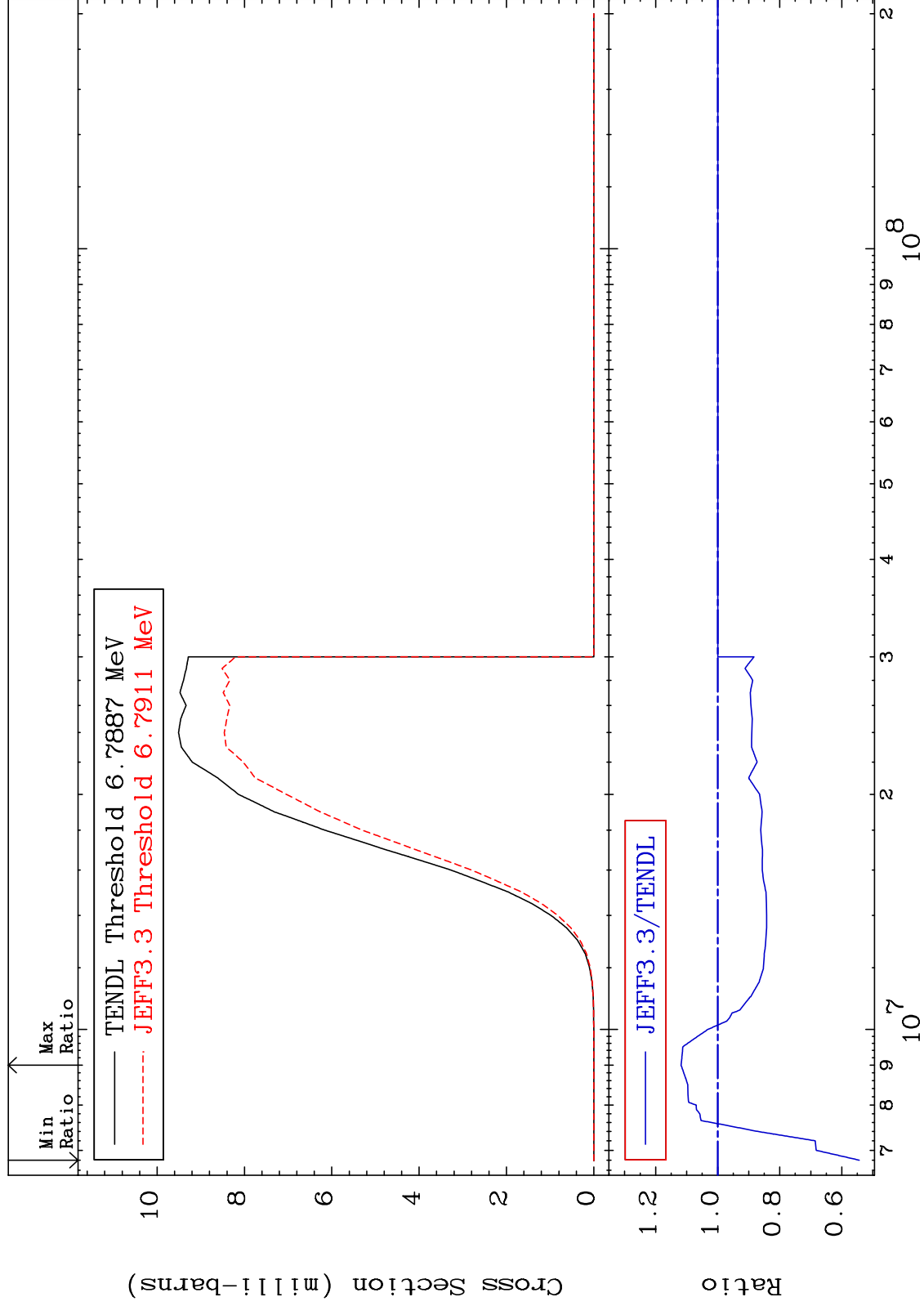
MAT 3449

(n, p) : 33-As-82g

34-Se-82

Radionuclide Production Cross Section

-45.64 To 11.82 %

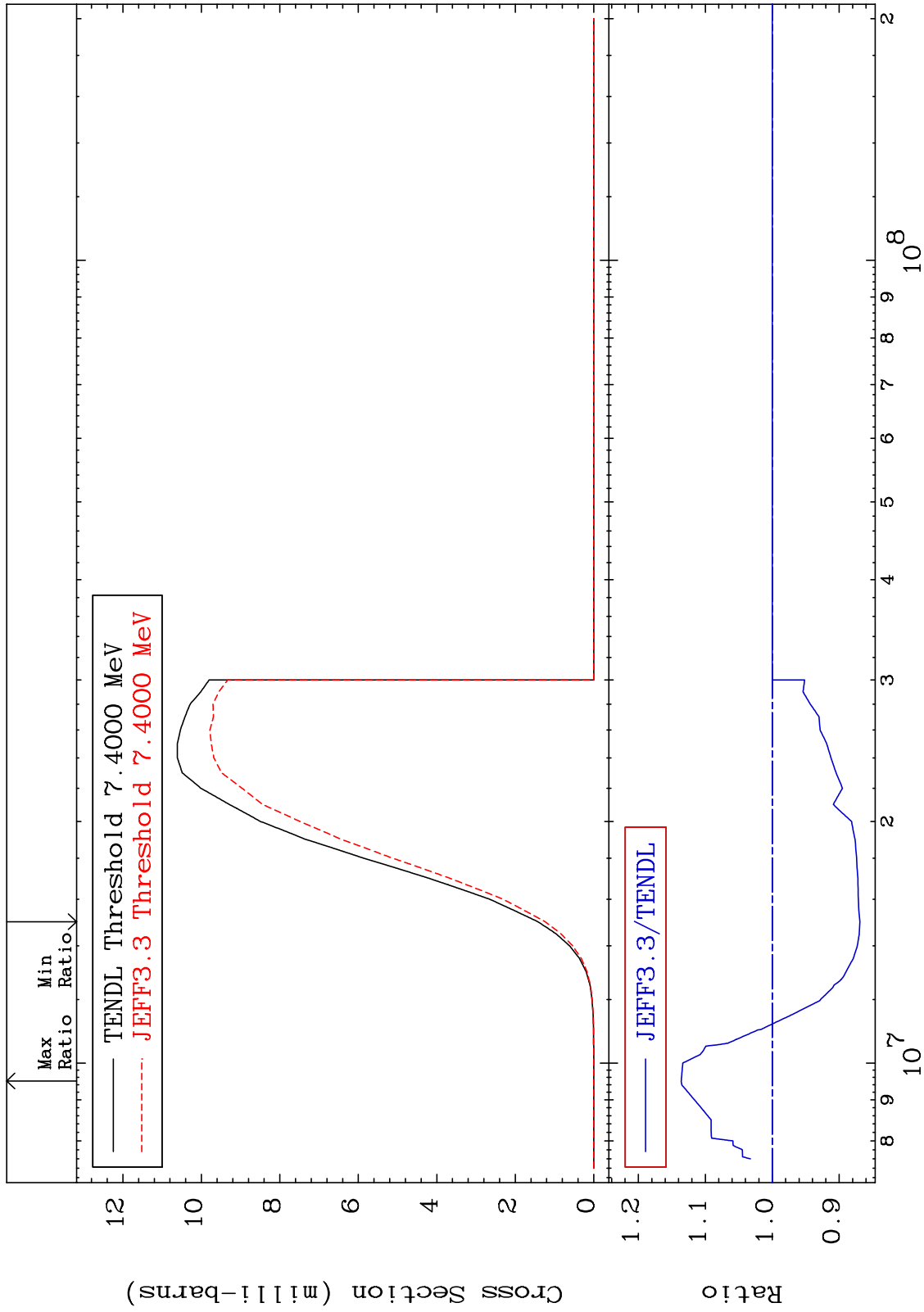


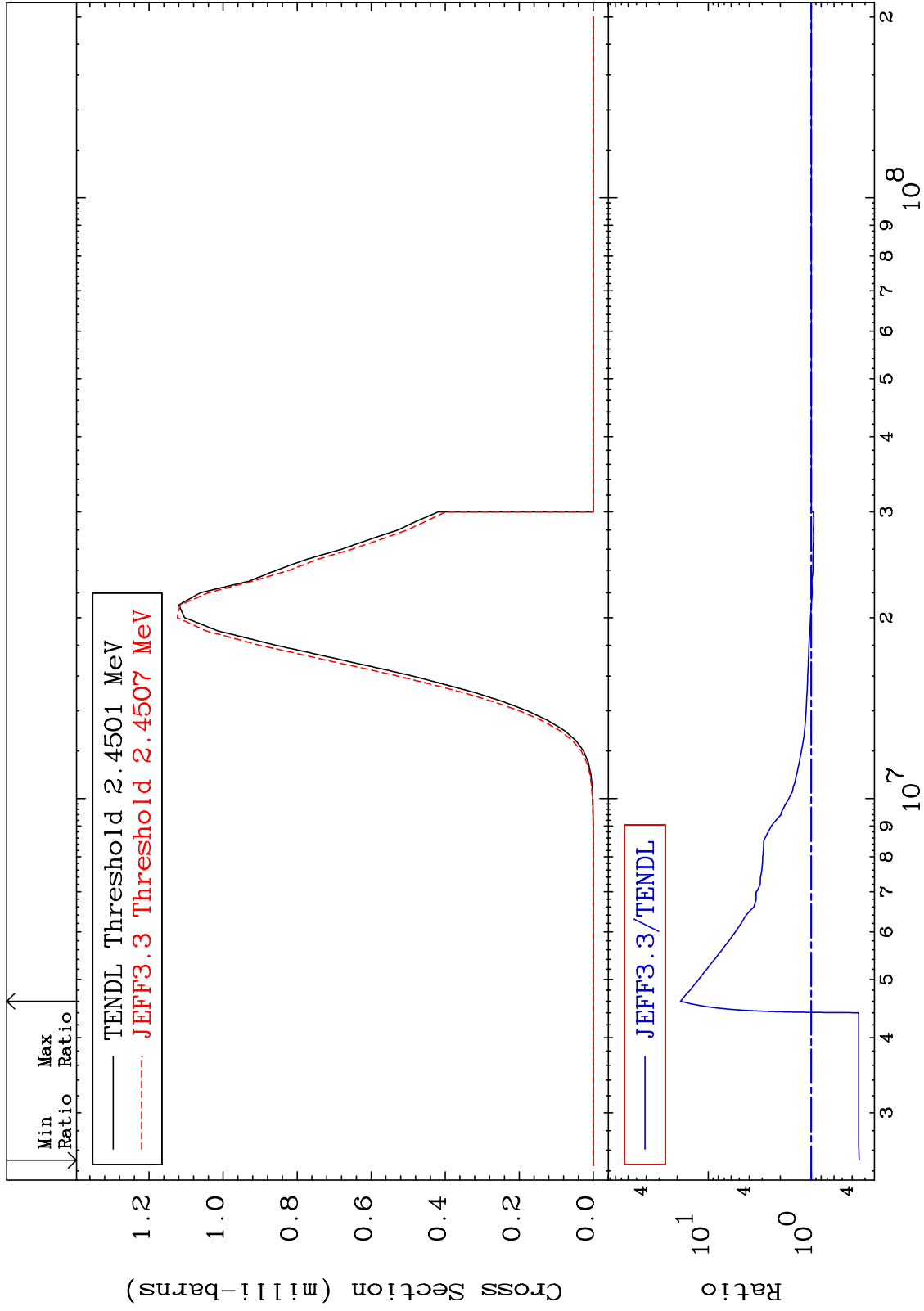
83

Incident Energy (eV)

34-Se-82

Radionuclide Production Cross Section -13.10 To 13.60 %



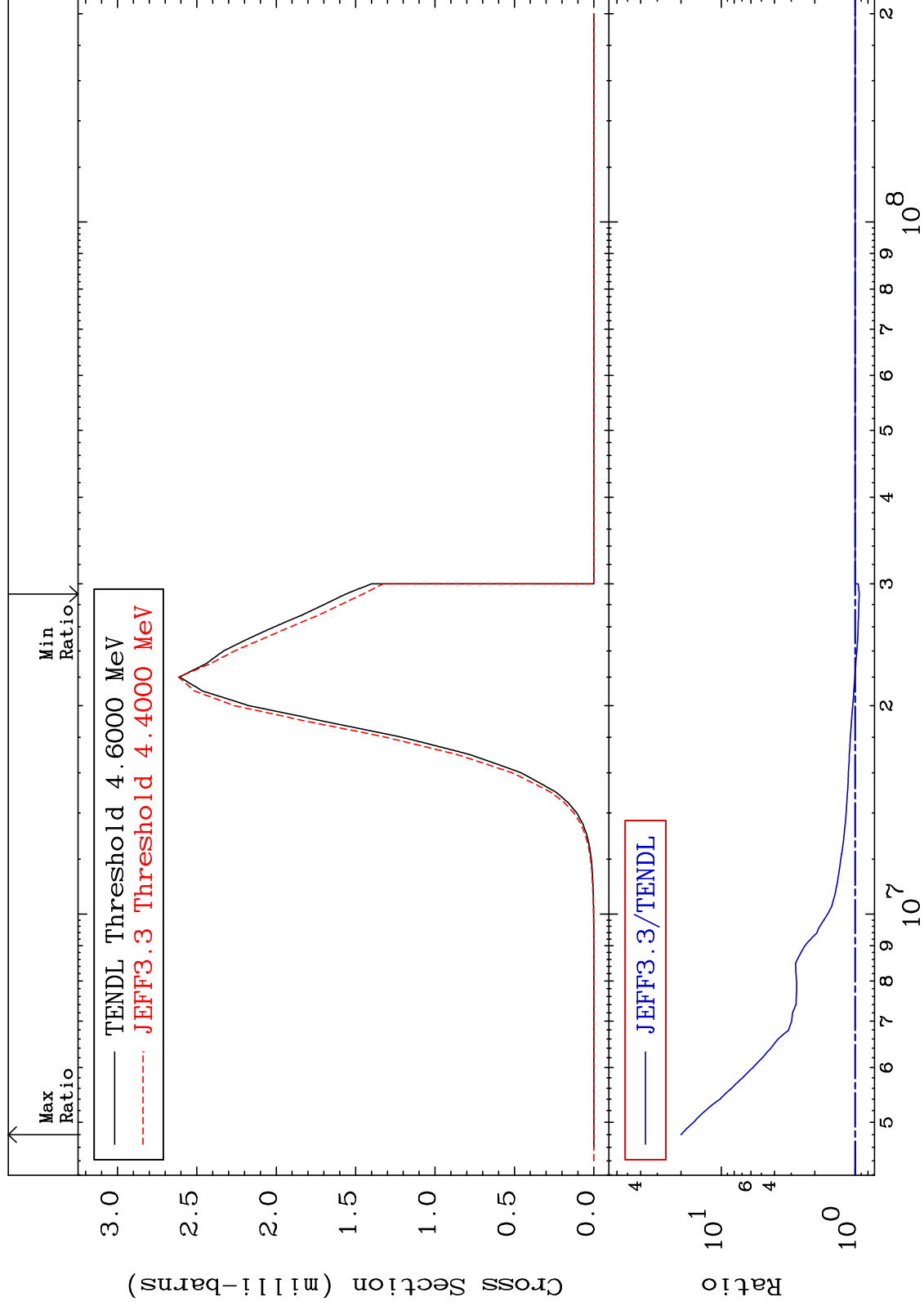


MAT 3449

(n, α): 32-Ge-79m1

34-Se-82

Radionuclide Production Cross Section -6.980 To 1894. %

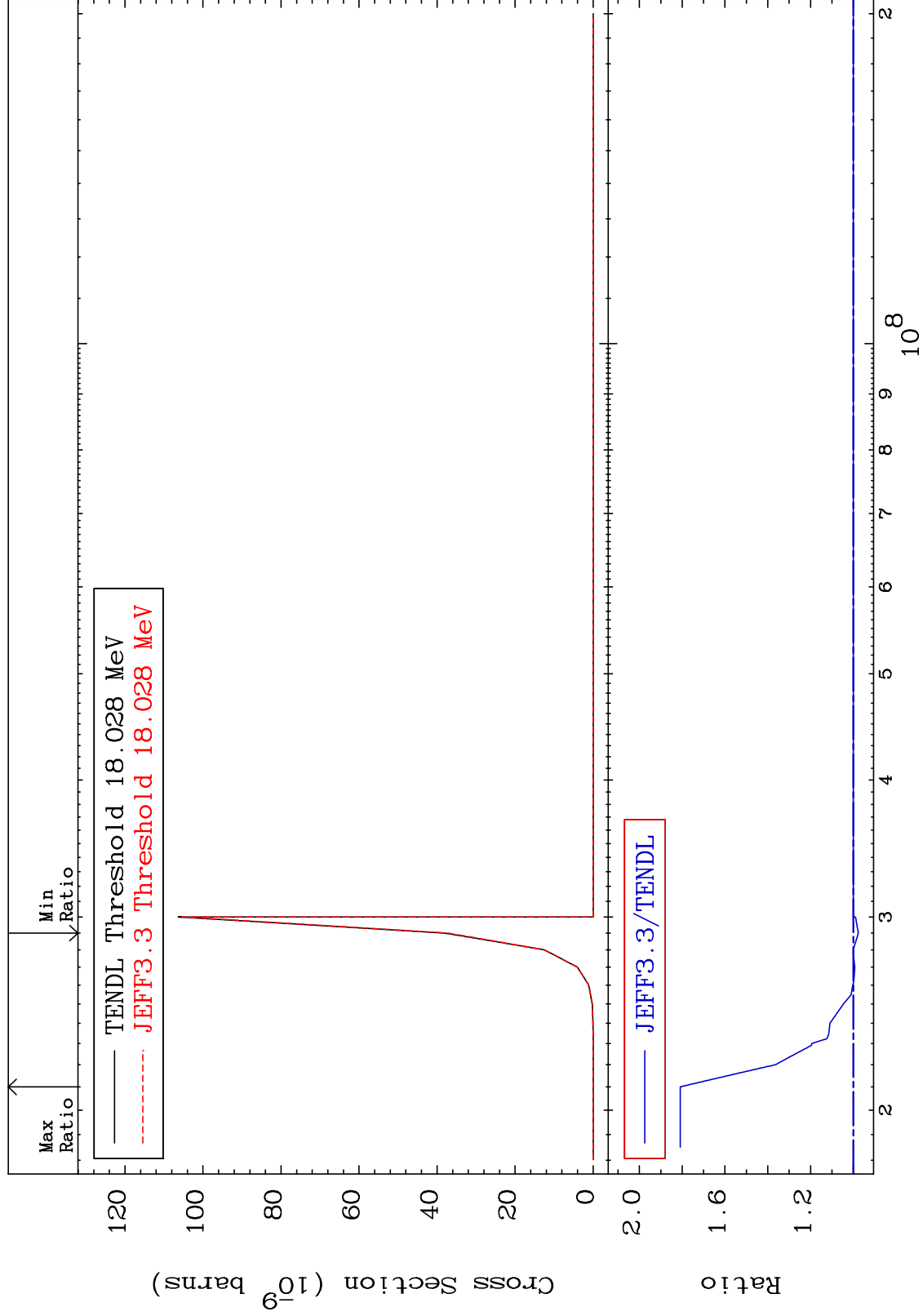


MAT 3449

(n,2p):32-Ge-81g

34-Se-82

Radionuclide Production Cross Section -2.350 To 80.87 %



87

Incident Energy (eV)

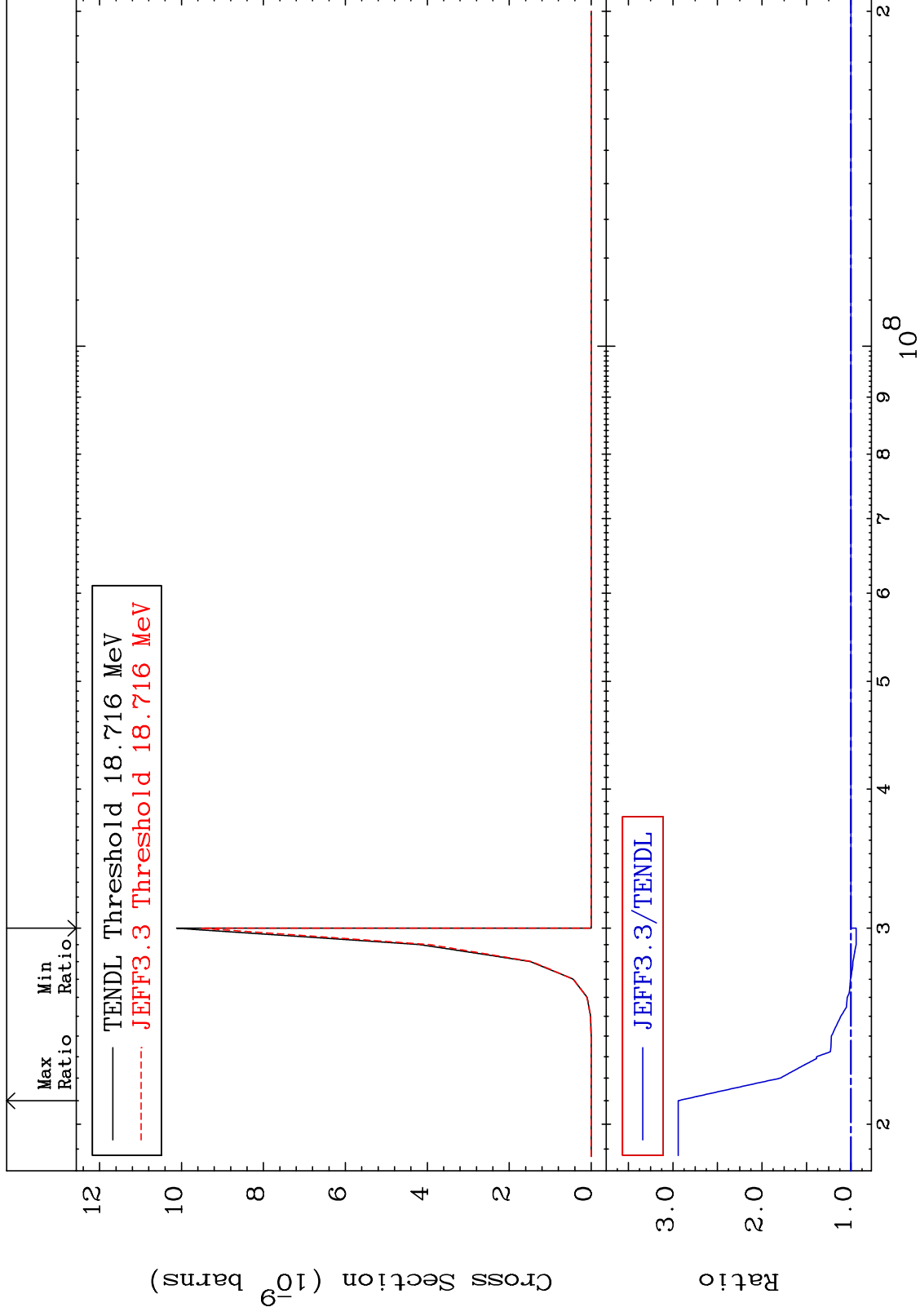
34-Se-82

MAT 3449

(n,2p):32-Ge-81m1

34-Se-82

Radionuclide Production Cross Section -5.861 To 194.0 %



88

Incident Energy (eV)

34-Se-82