

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

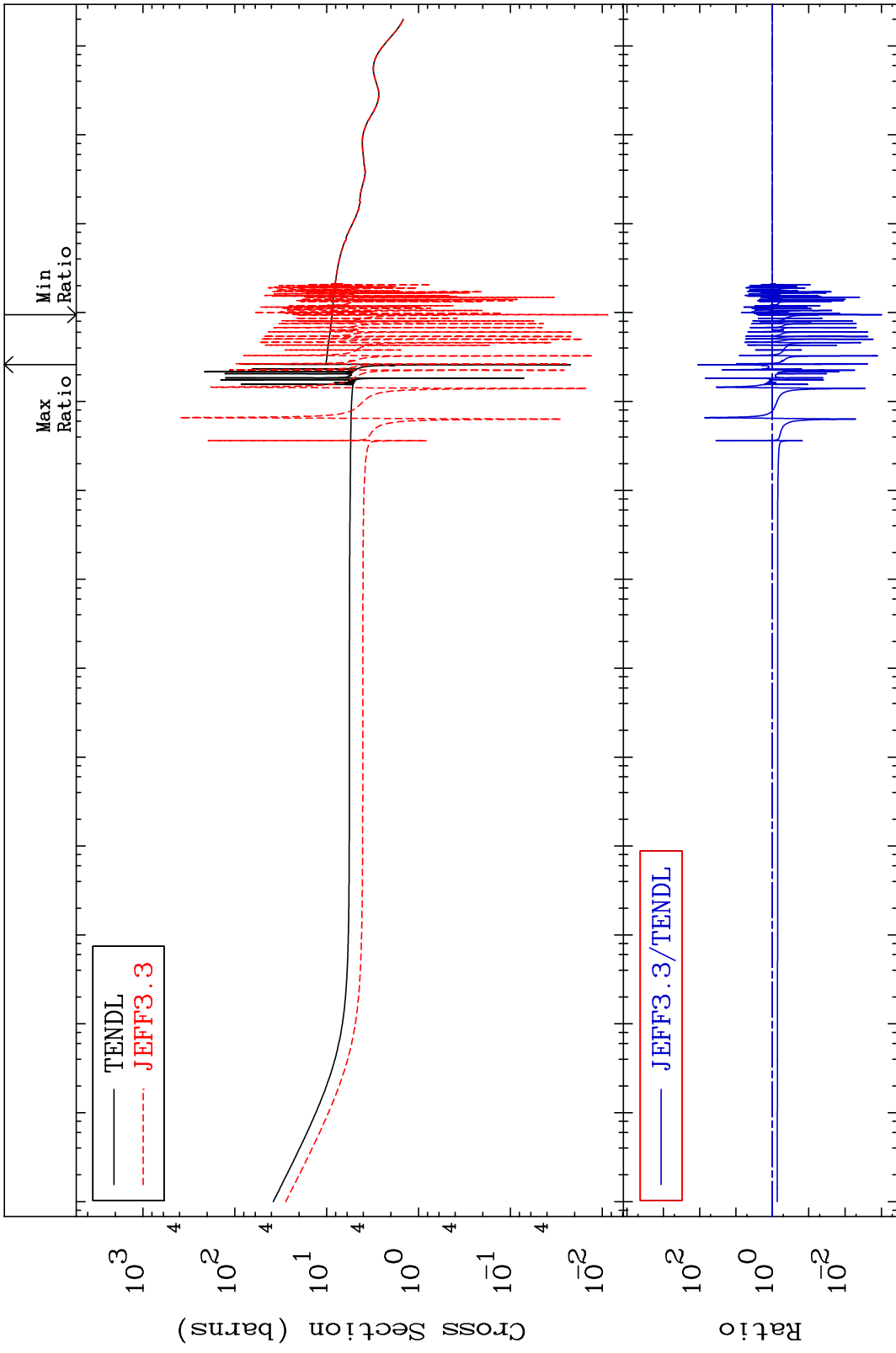
MAT 3449

Total

34-Se-82

Cross Section

-99.90 To 9999. %



TENDL
JEFF3.3

JEFF3.3/TENDL

Ratio

10³
10²
10¹
10⁰
10⁻¹
10⁻²
10⁻³
10⁻⁴
10⁻⁵

10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

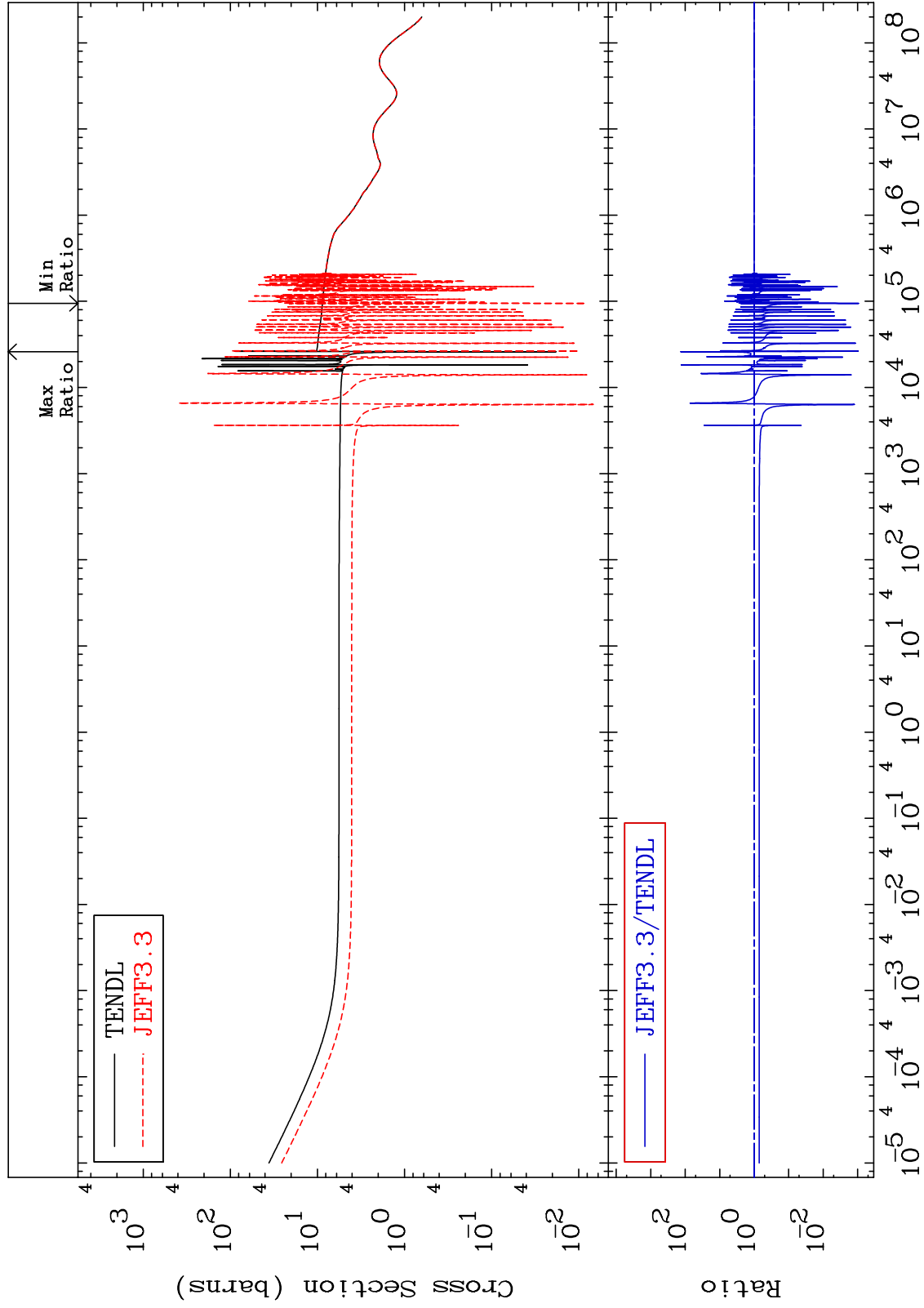
Incident Energy (eV)

34-Se-82

MAT 3449

Elastic
Cross Section

34-Se-82
-99.91 To 9999. %



Incident Energy (eV)

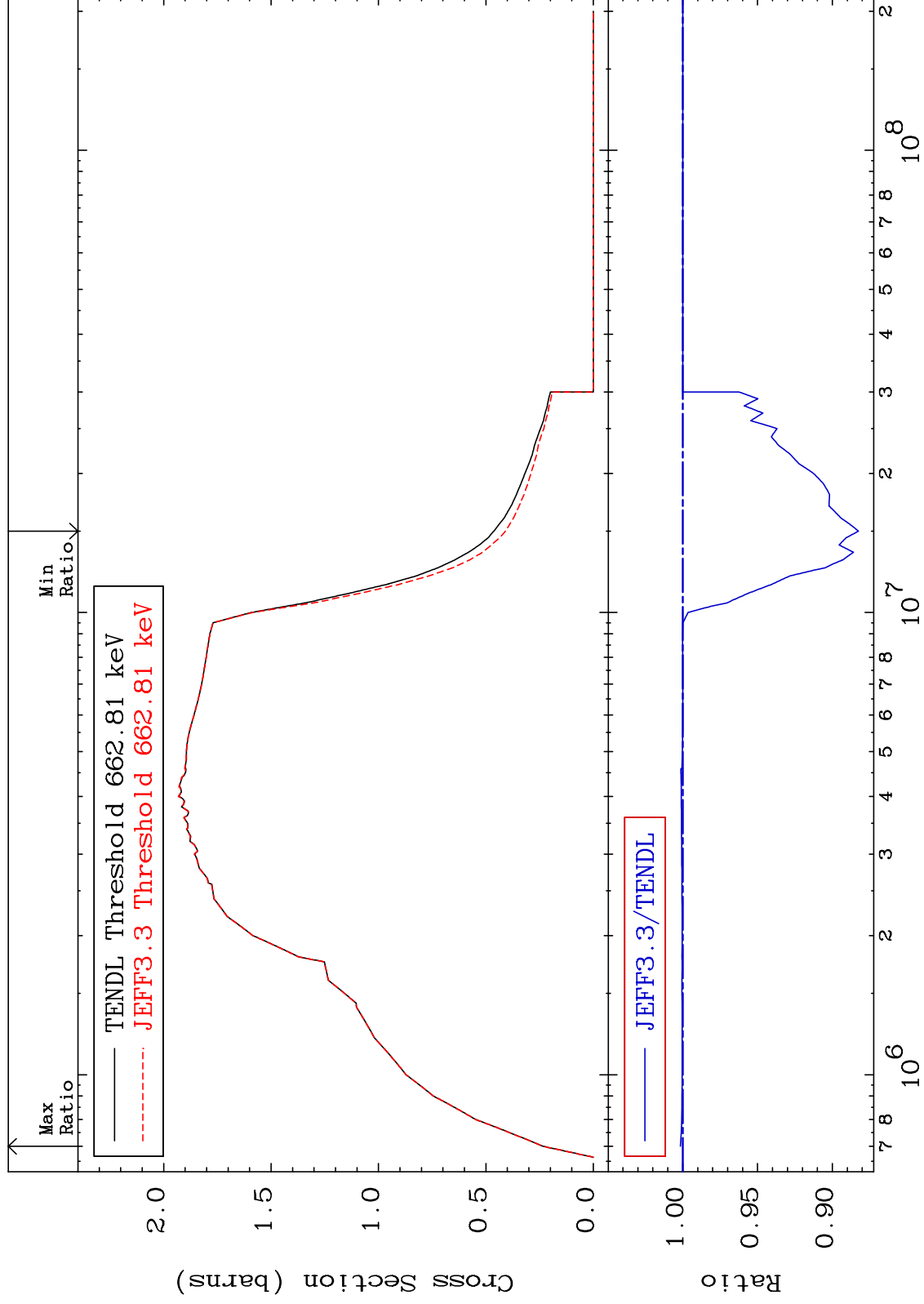
34-Se-82

MAT 3449

Inelastic
Cross Section

34-Se-82

-11.75 To 0.154 %



3

Incident Energy (eV)

34-Se-82

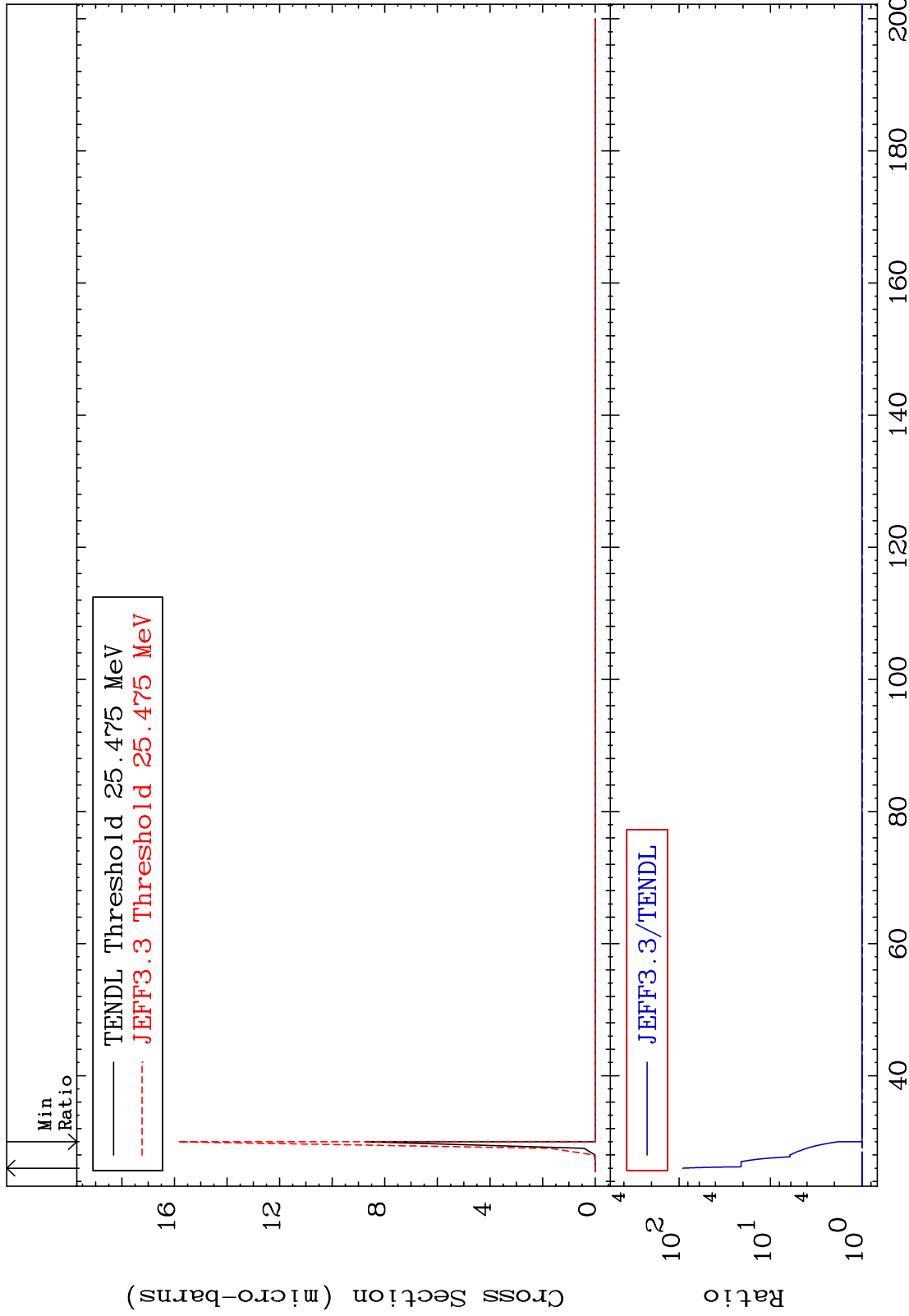
MAT 3449

(n,2n) d

³⁴Se-82

Cross Section

0.000 To 8977. %



4

Incident Energy (MeV)

³⁴Se-82

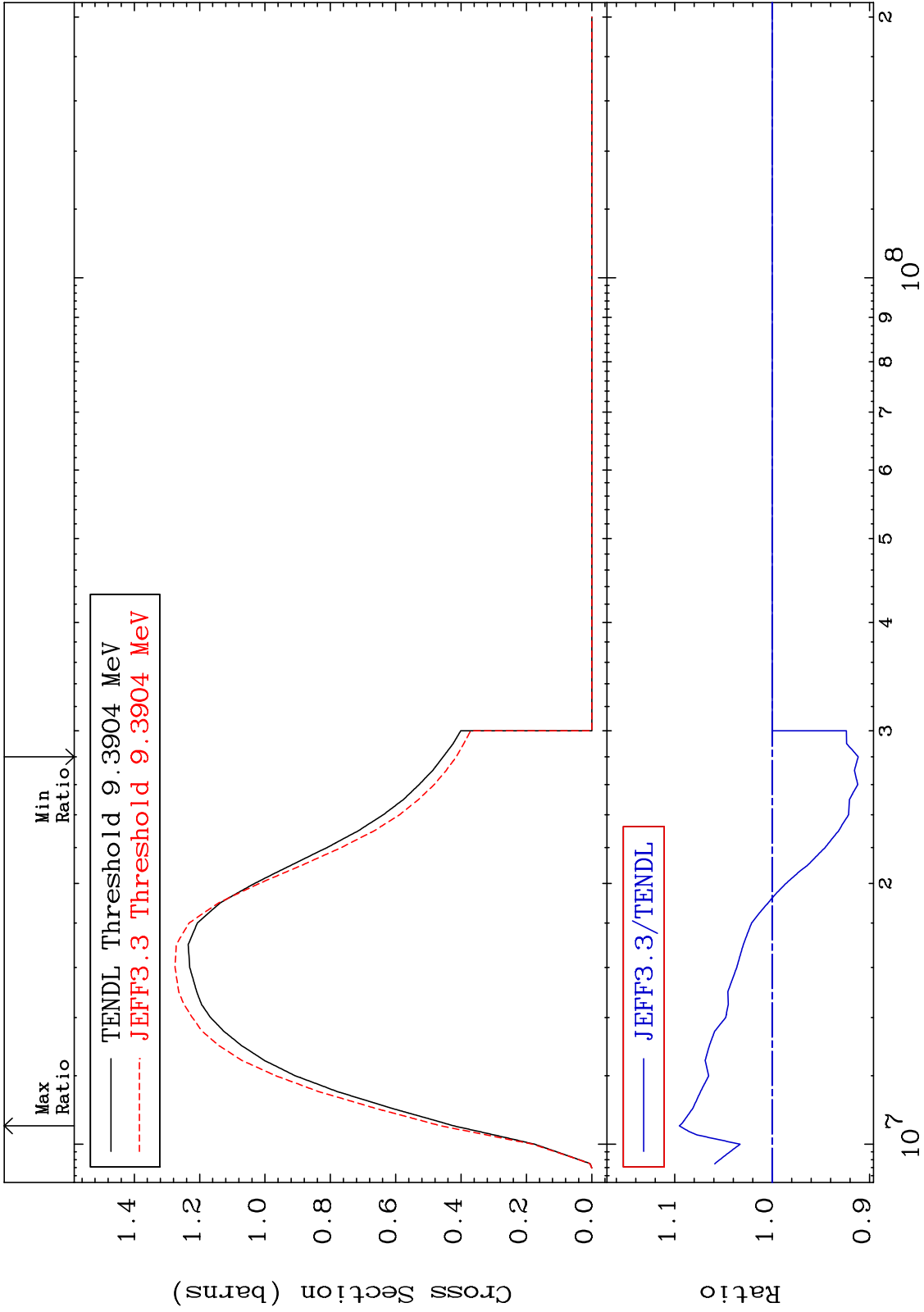
MAT 3449

(n,2n)

34-Se-82

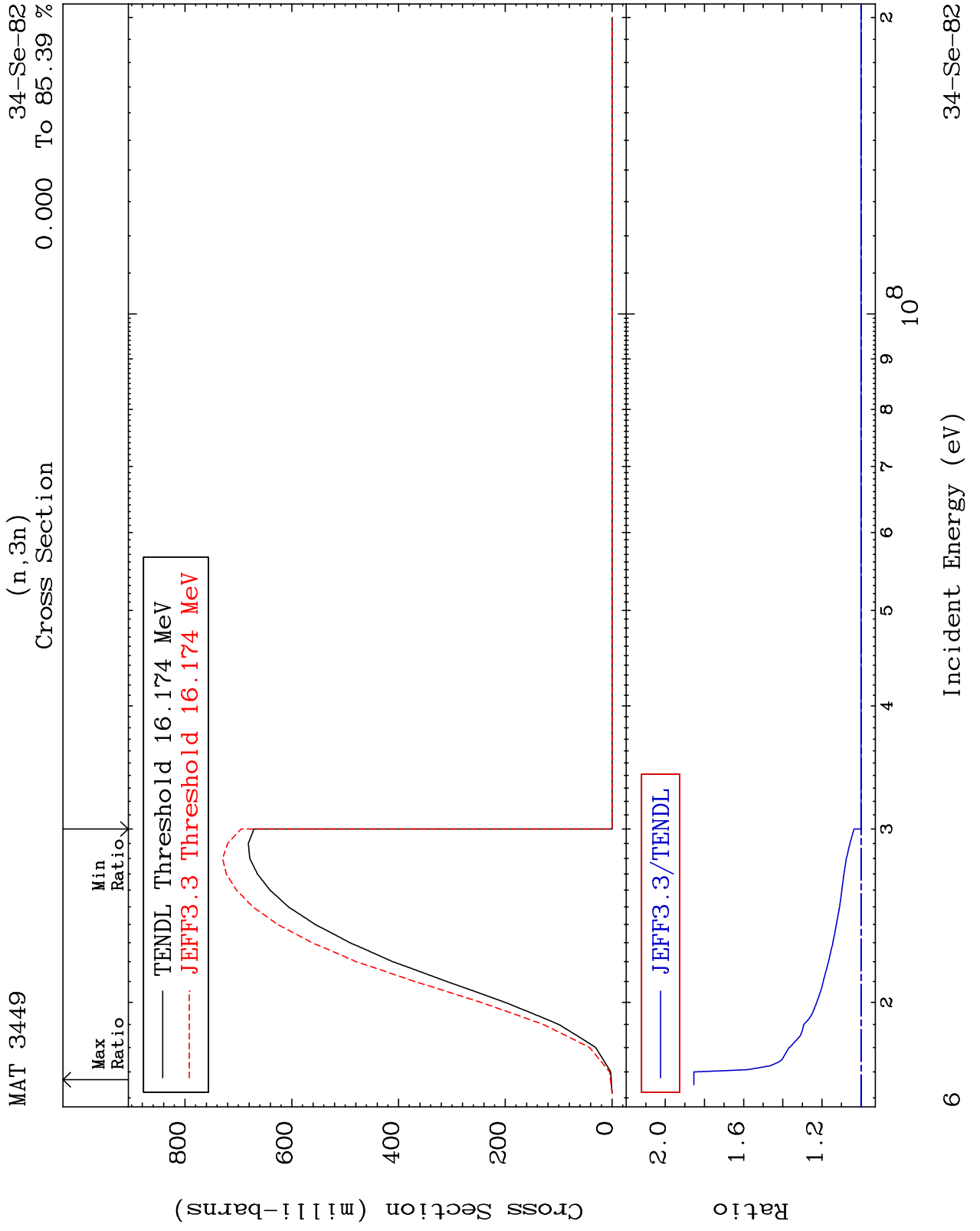
Cross Section

-8.829 To 9.529 %



Incident Energy (eV)

34-Se-82



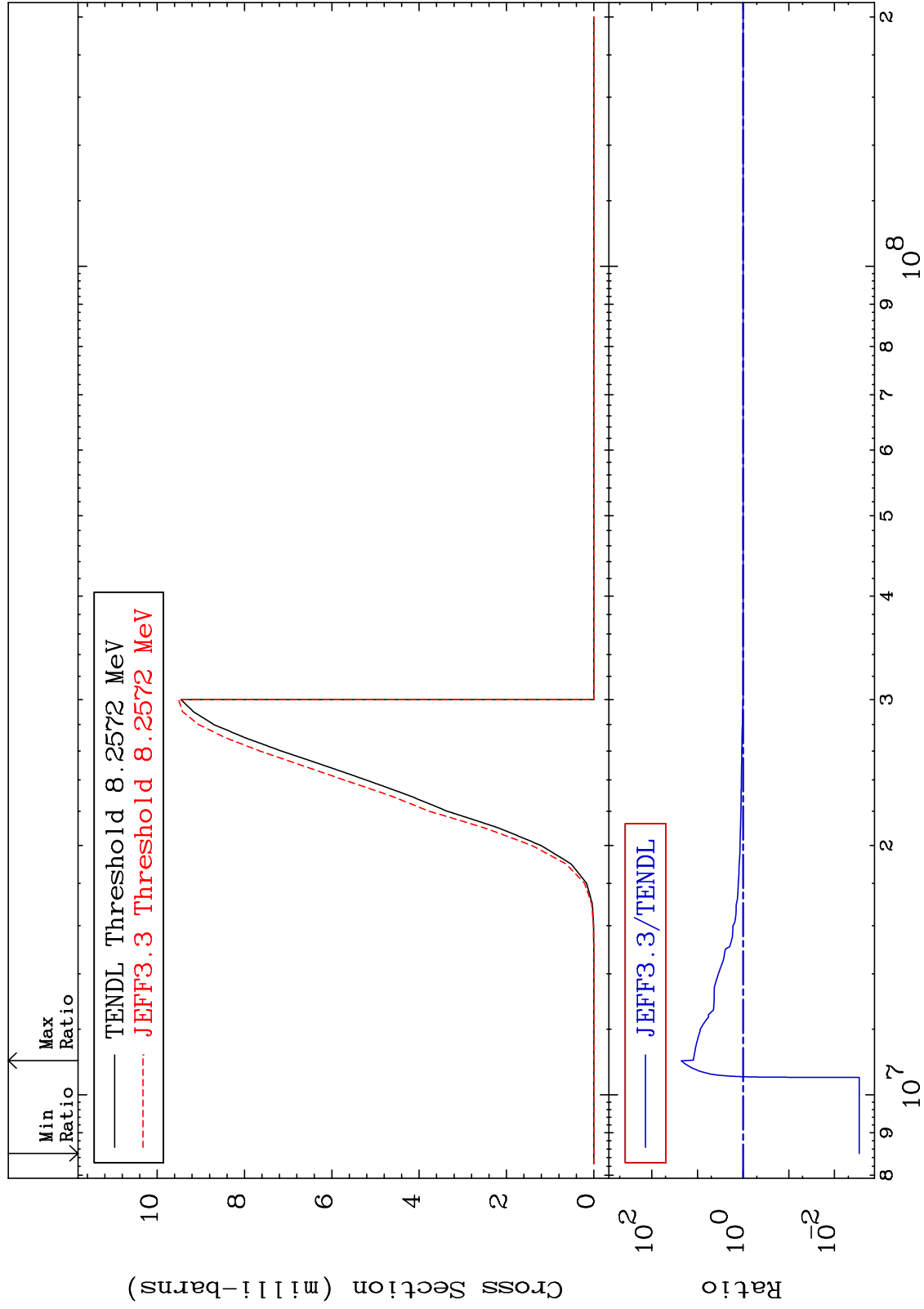
MAT 3449

(n, n') α

34-Se-82

Cross Section

-99.71 To 2186. %



34-Se-82

34-Se-82

MAT 3449

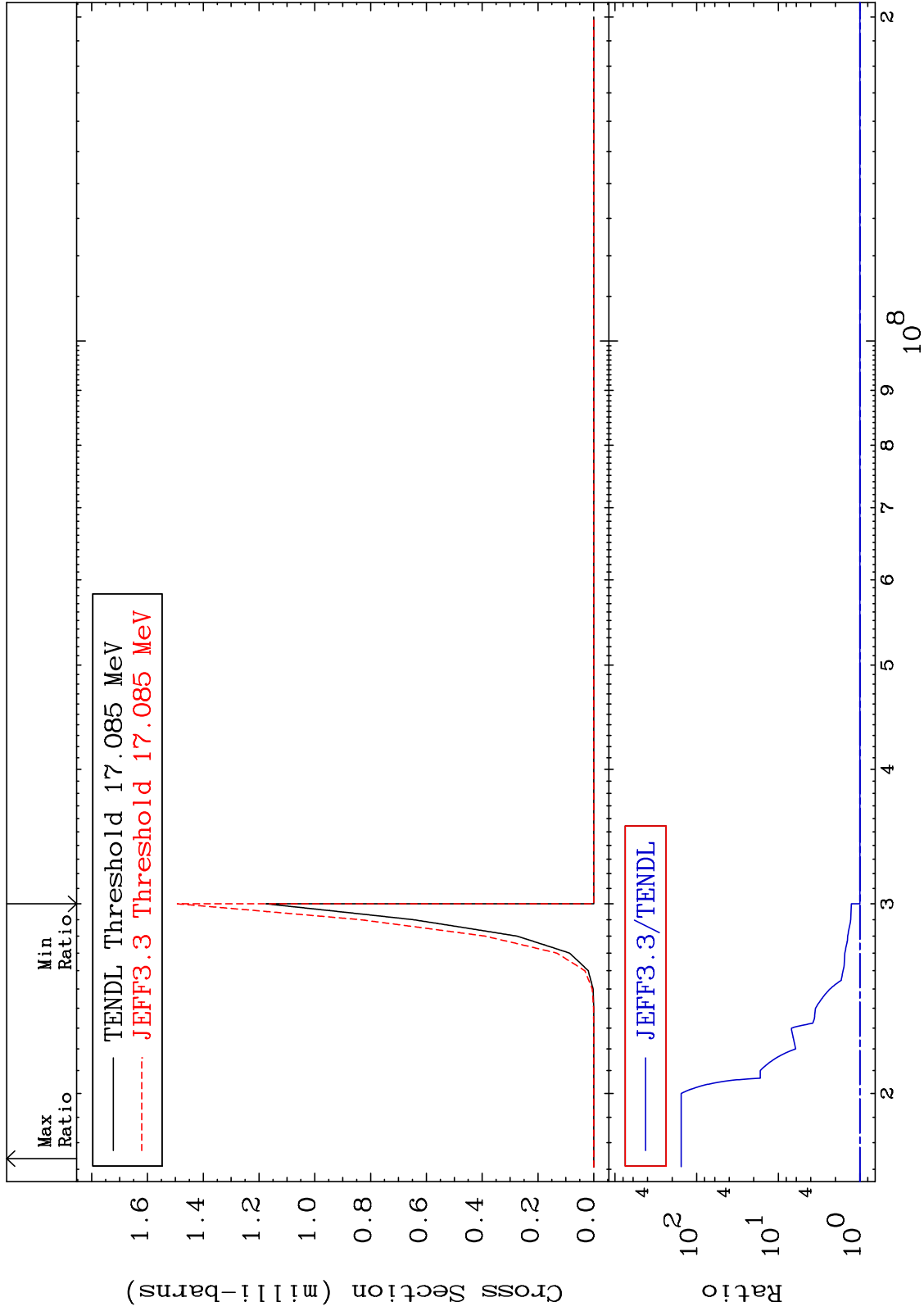
(n,2n) α

³⁴Se-82

Cross Section

0.000

To 9999. %



Incident Energy (eV)

³⁴Se-82

MAT 3449

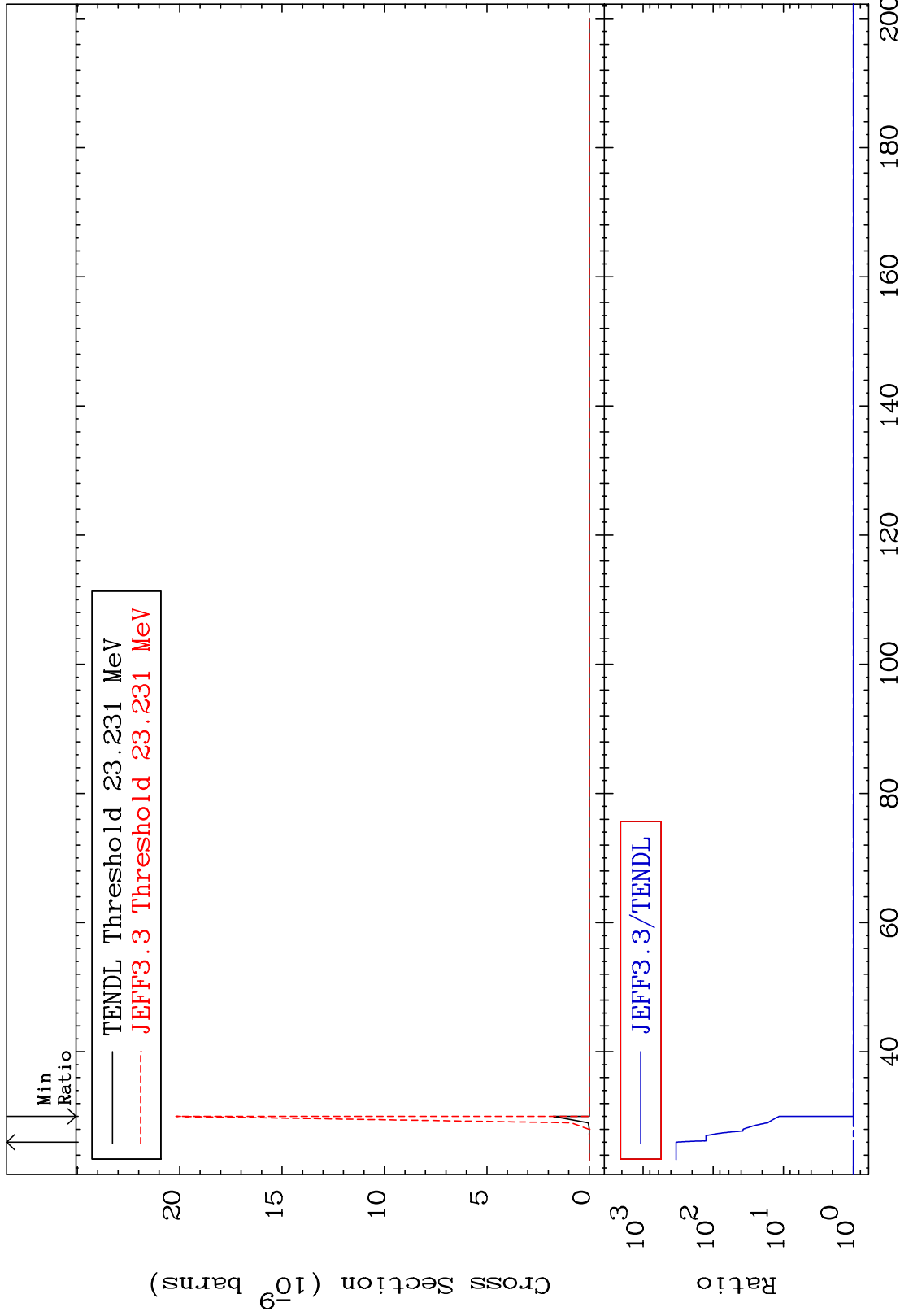
(n,3n) α

34-Se-82

Cross Section

0.000

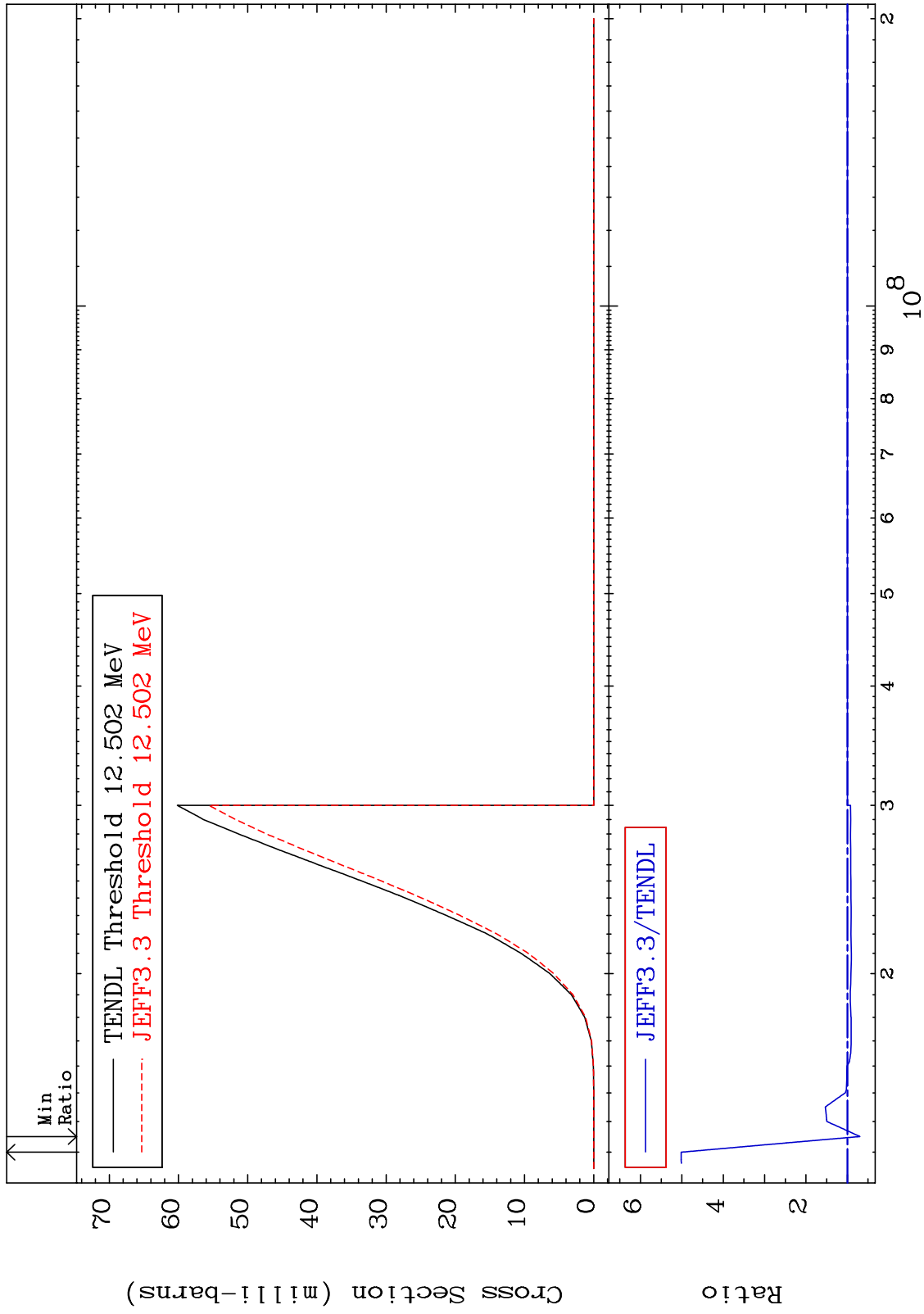
To 9999. %



MAT 3449

(n,n') p
Cross Section

34-Se-82
-30.45 To 401.5 %



10

34-Se-82

34-Se-82

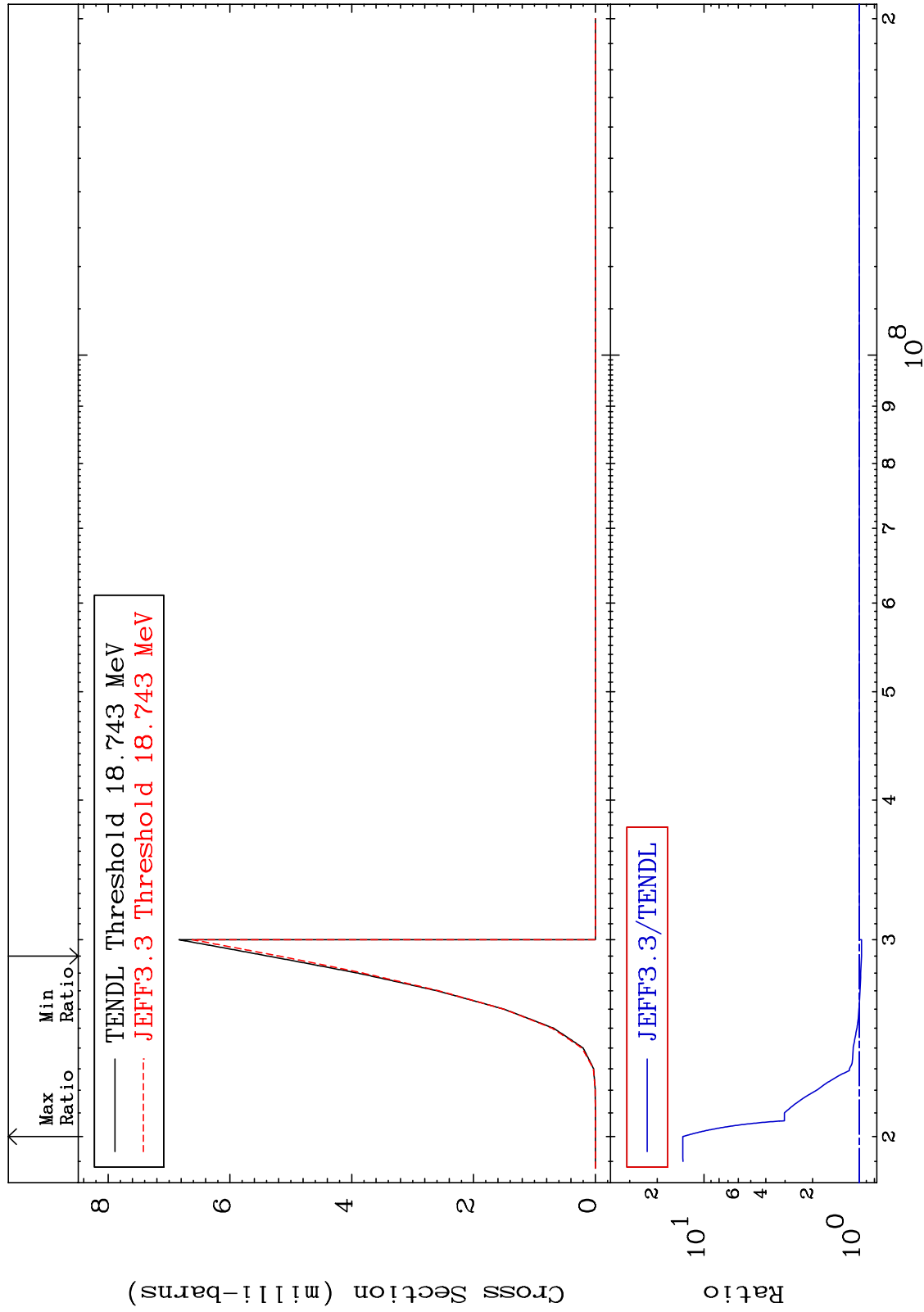
MAT 3449

(n, n') d

³⁴Se-82

Cross Section

-3.320 To 1266. %



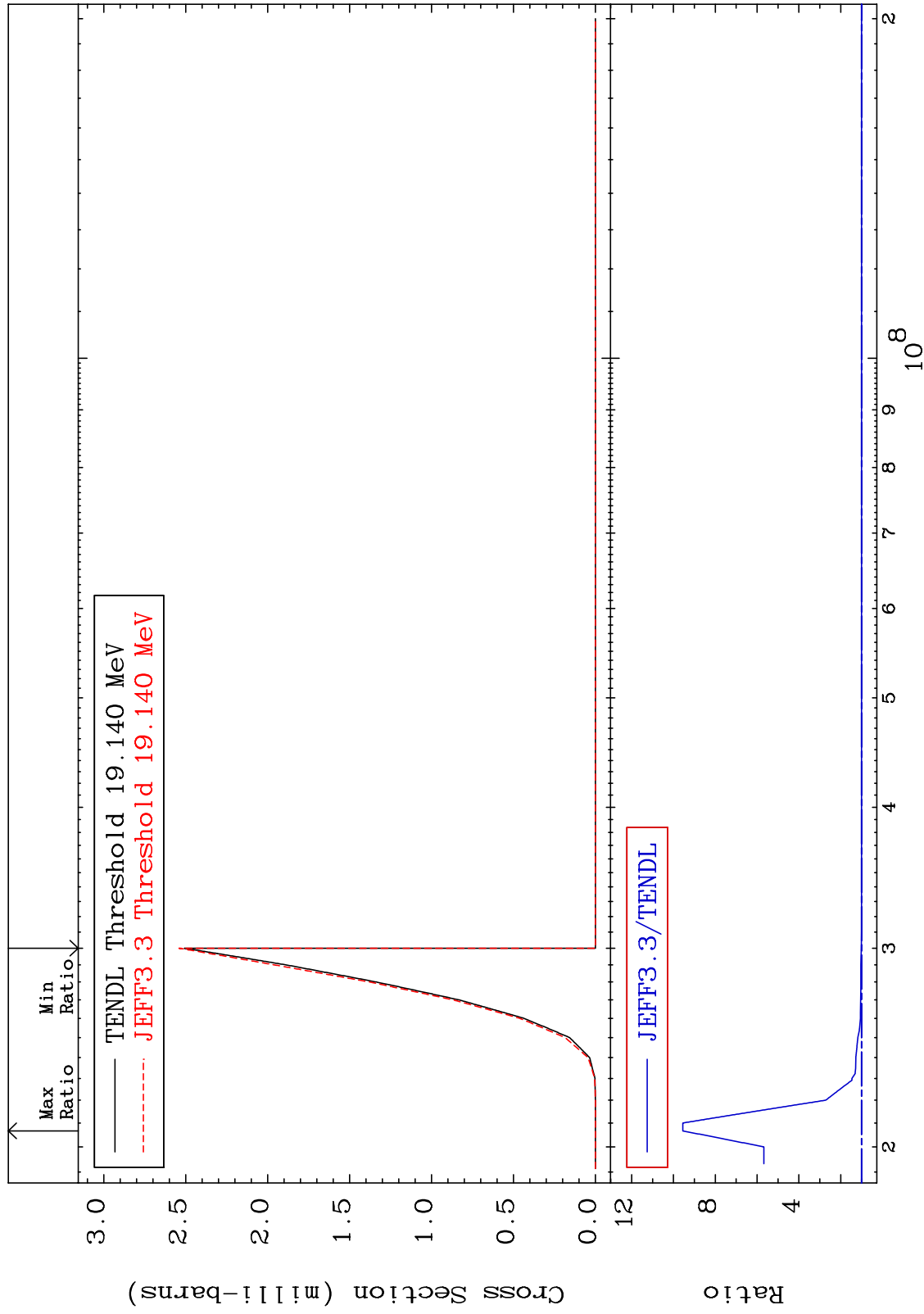
MAT 3449

(n,n') t

³⁴Se-82

Cross Section

0.000 To 855.1 %



12

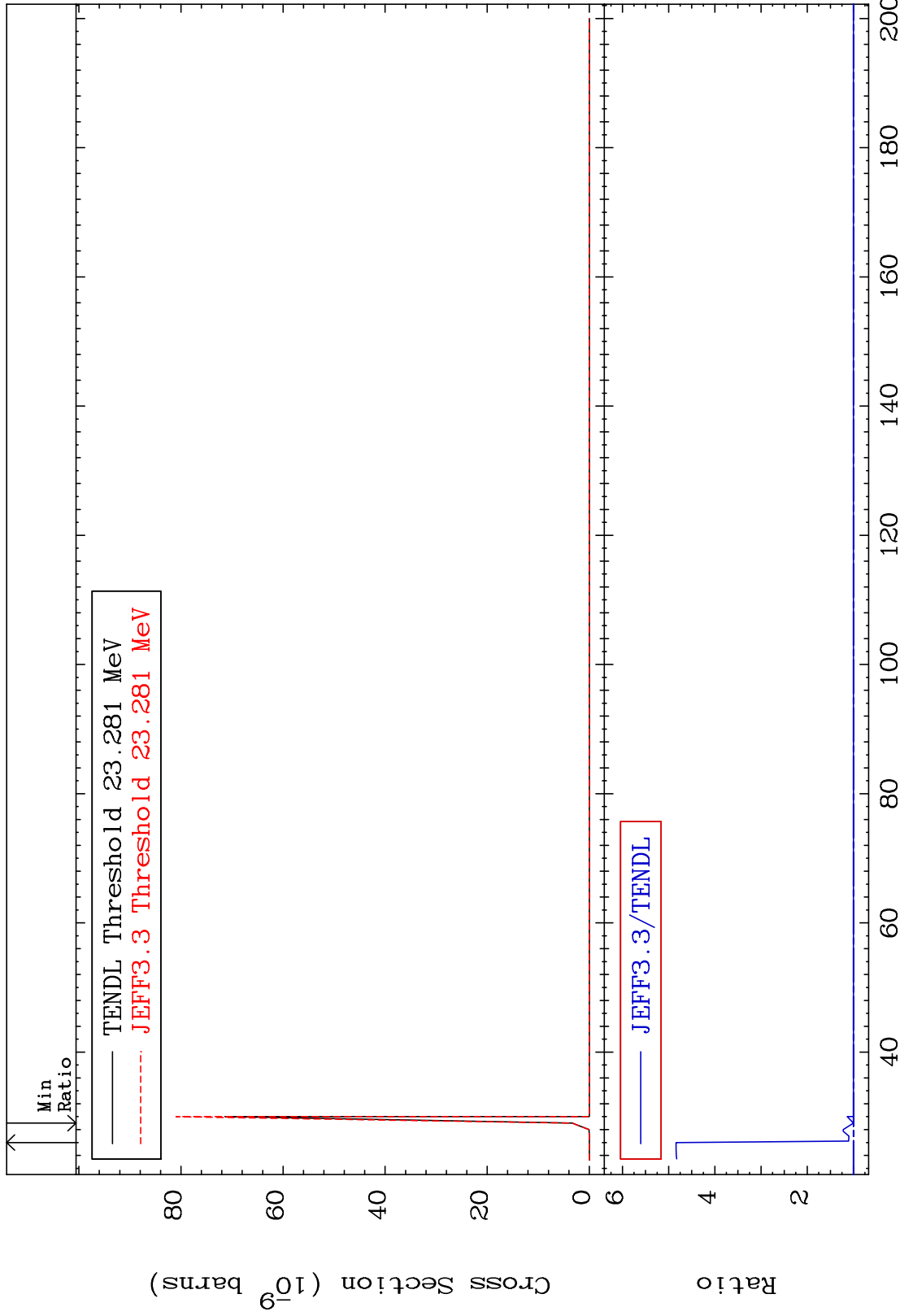
Incident Energy (eV)

³⁴Se-82

MAT 3449

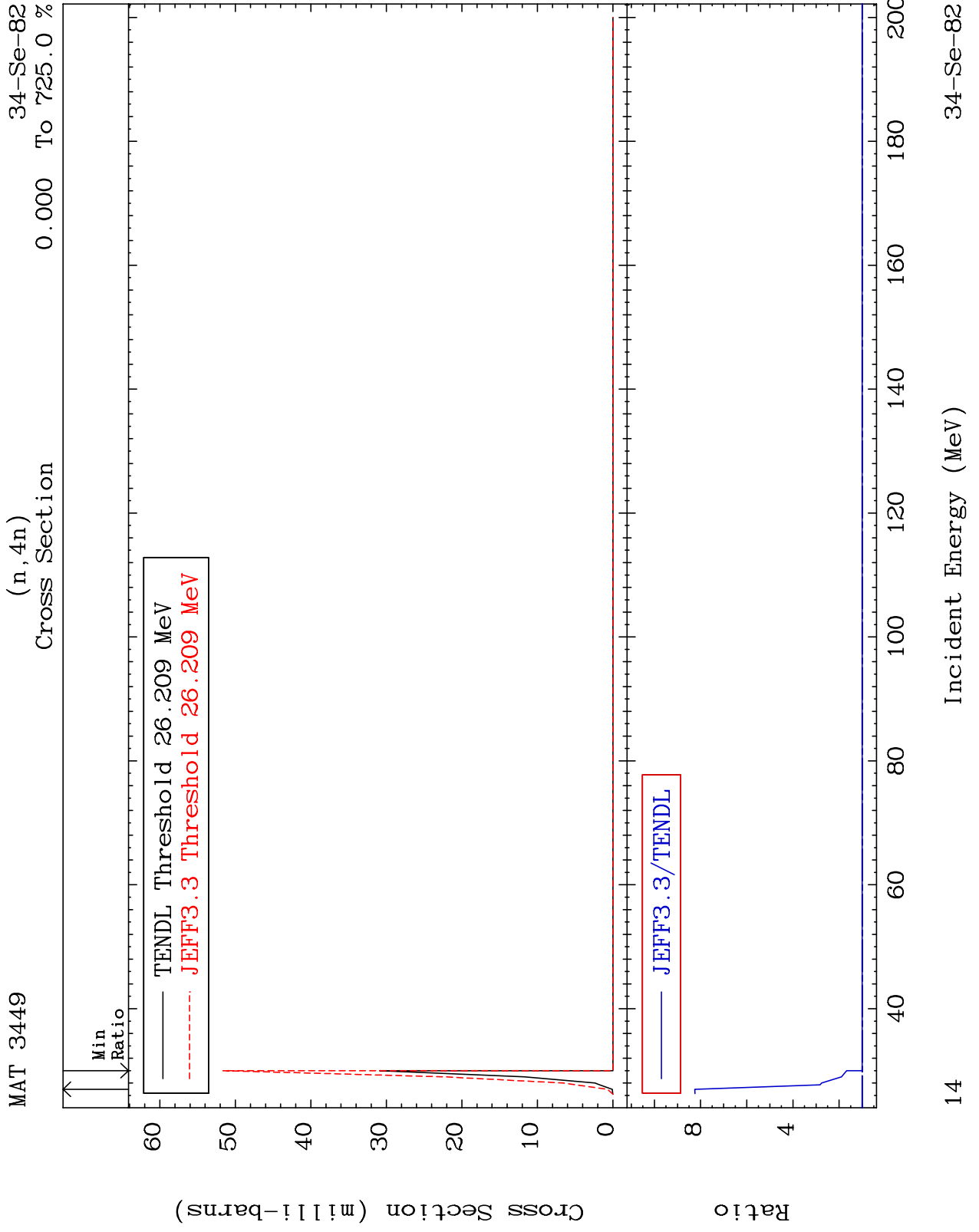
(n, n') He-3
Cross Section

34-Se-82
-0.038 To 383.8 %



34-Se-82

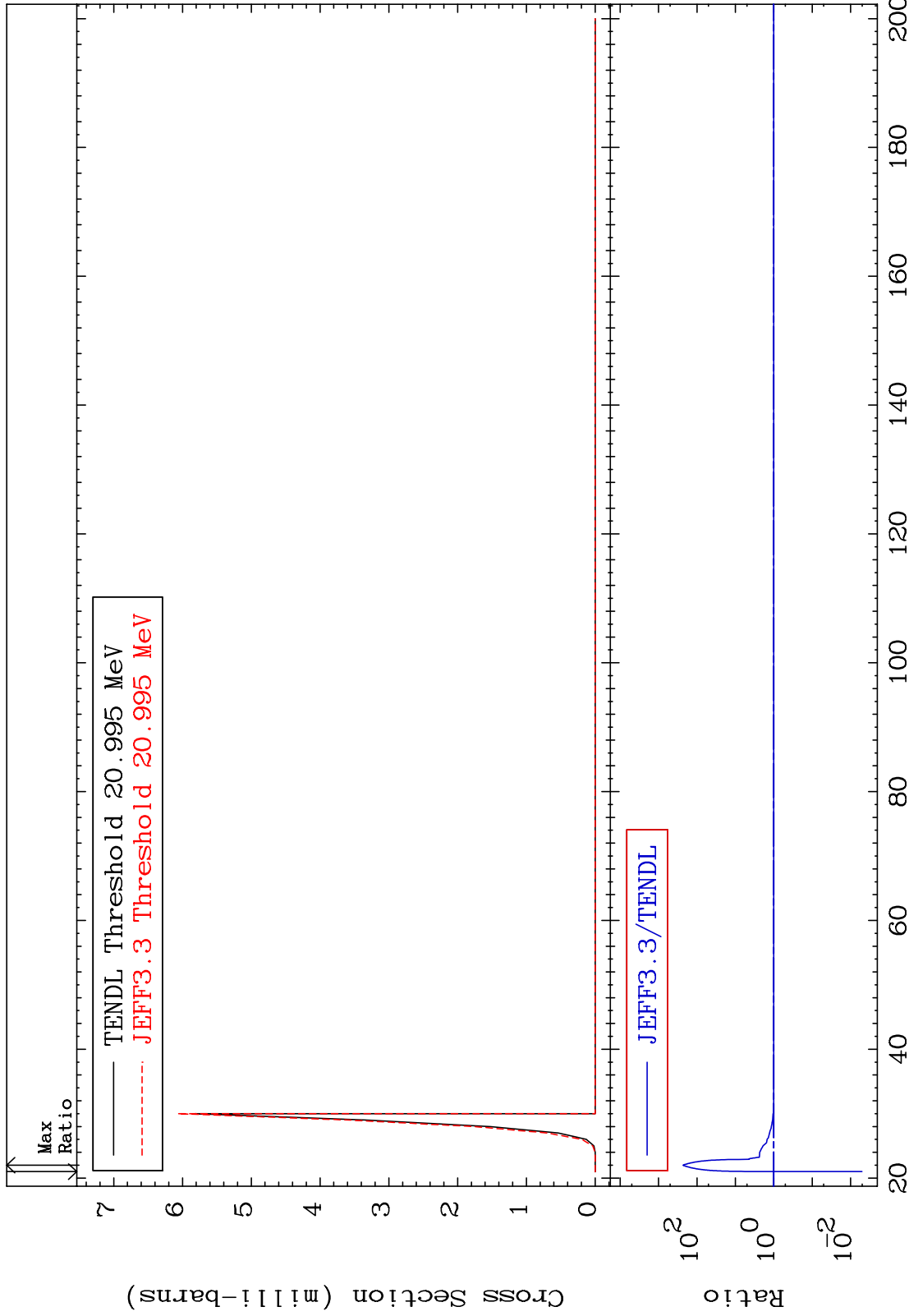
Incident Energy (MeV)



MAT 3449

(n,2n) p
Cross Section

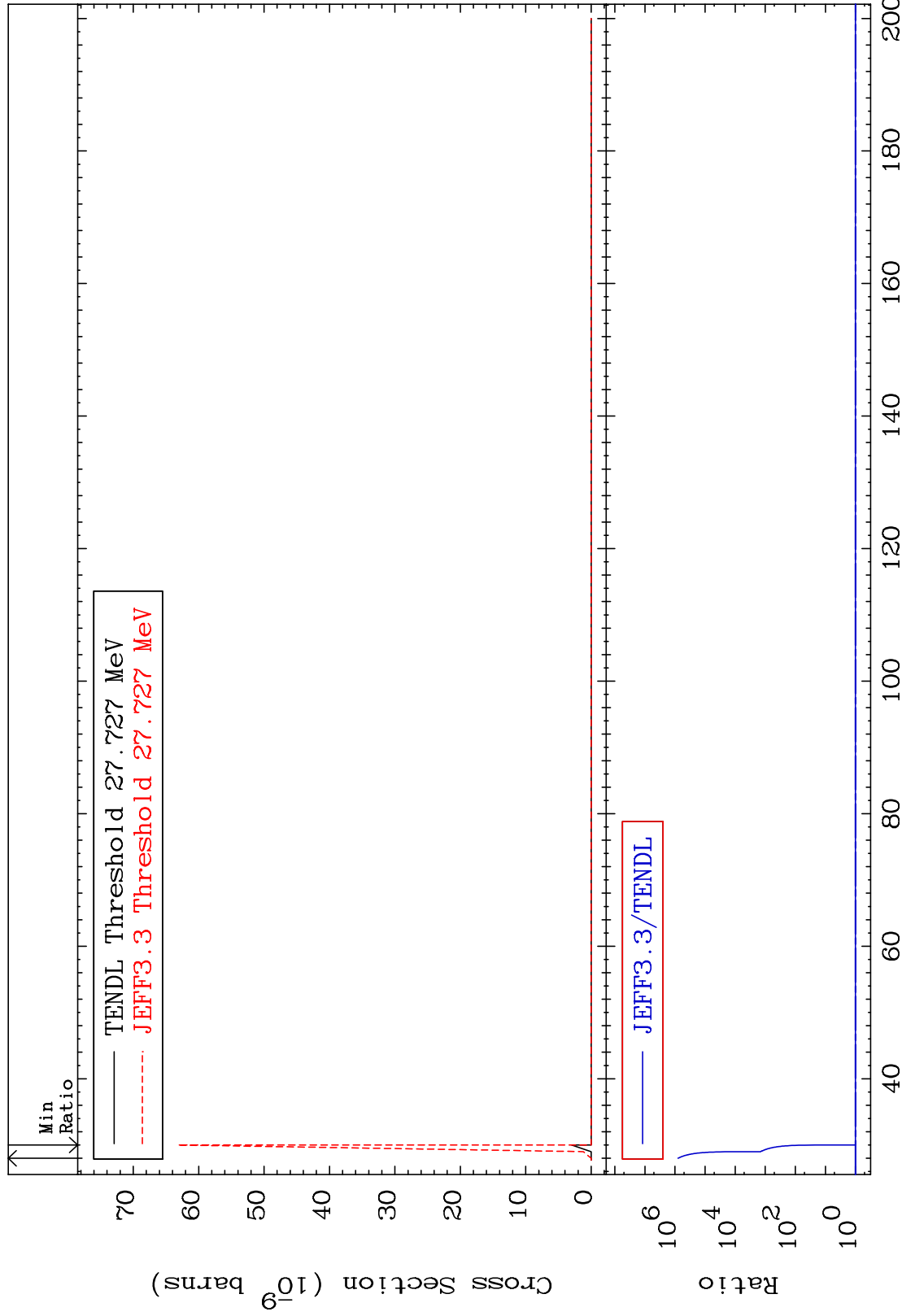
34-Se-82
-99.50 To 9999. %



MAT 3449

(n,3n) p
Cross Section

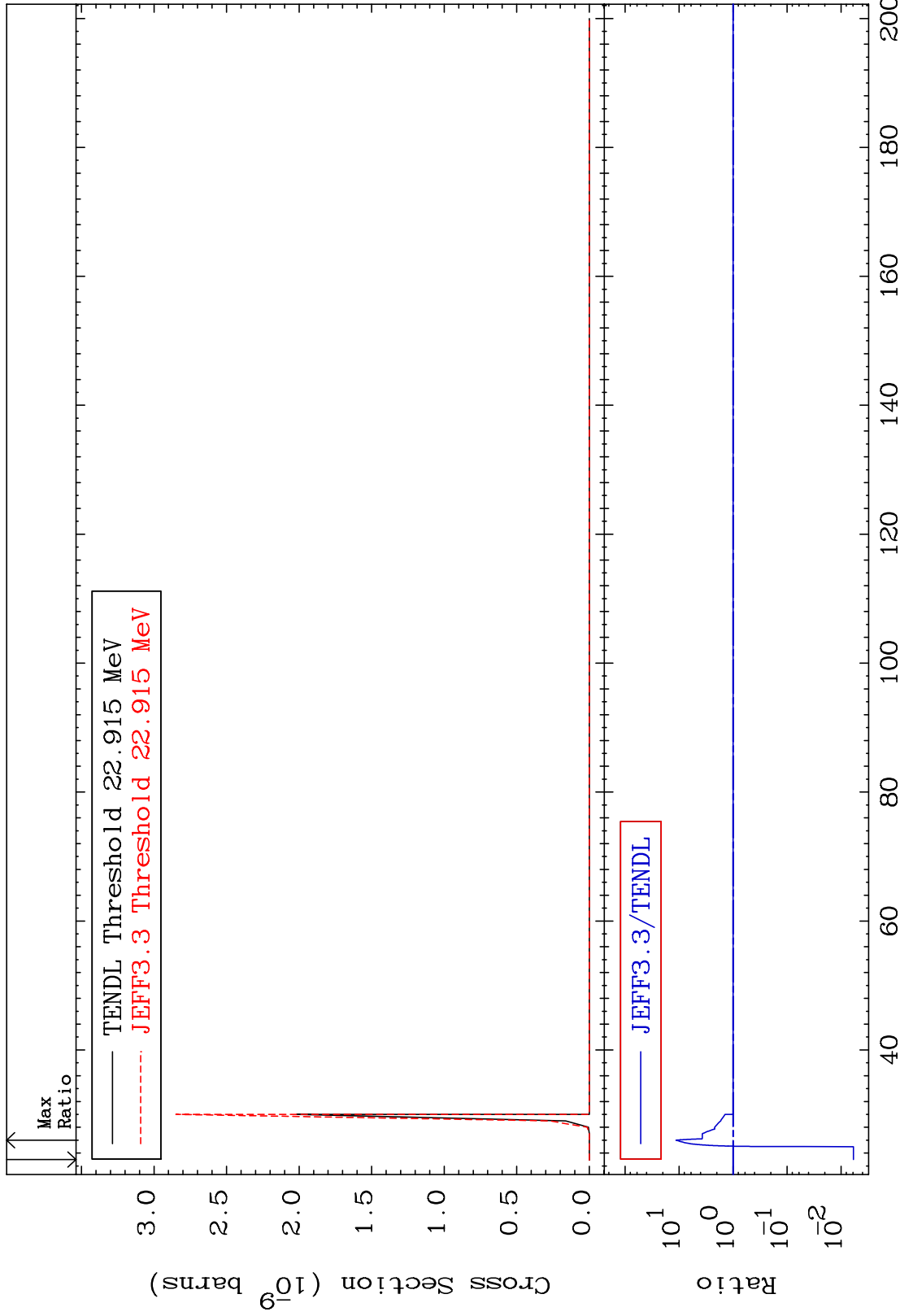
34-Se-82
0.000 To 9999. %



MAT 3449

(n,2n) p
Cross Section

34-Se-82
-99.41 To 1033. %



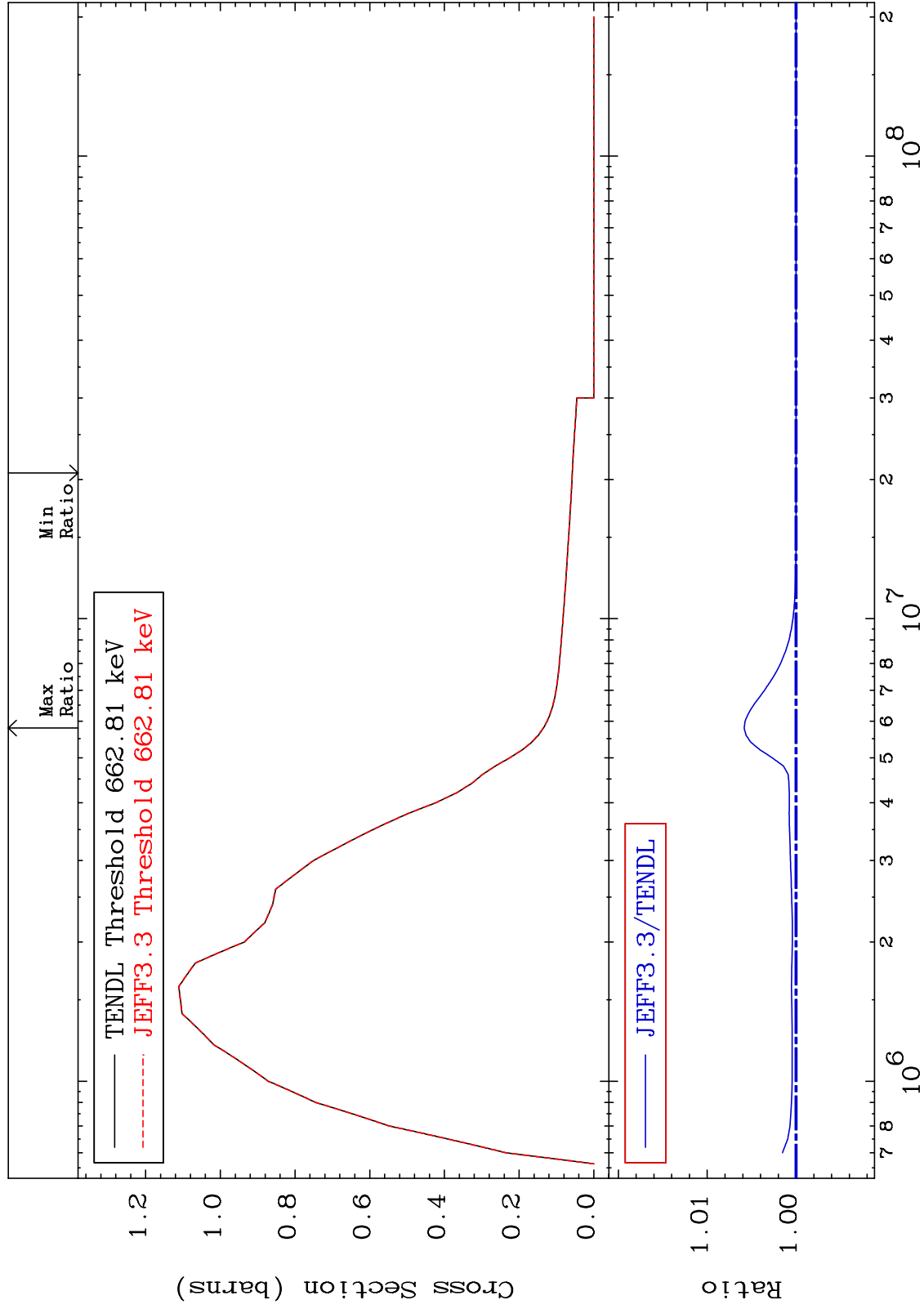
MAT 3449

MT= 51 (n,n') Level

34-Se-82

0.000 To 0.584 %

Cross Section



18

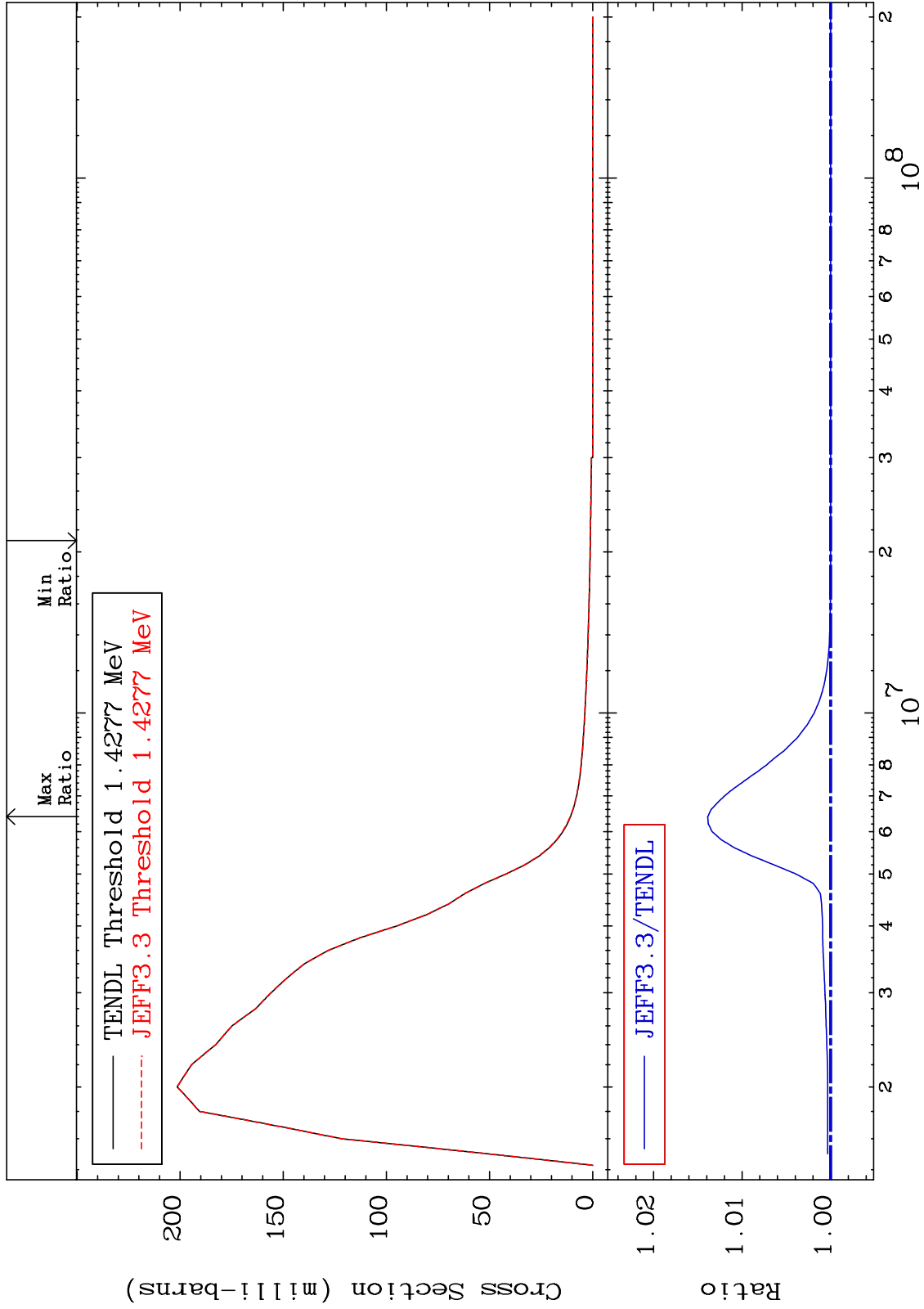
Incident Energy (eV)

34-Se-82

MAT 3449

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

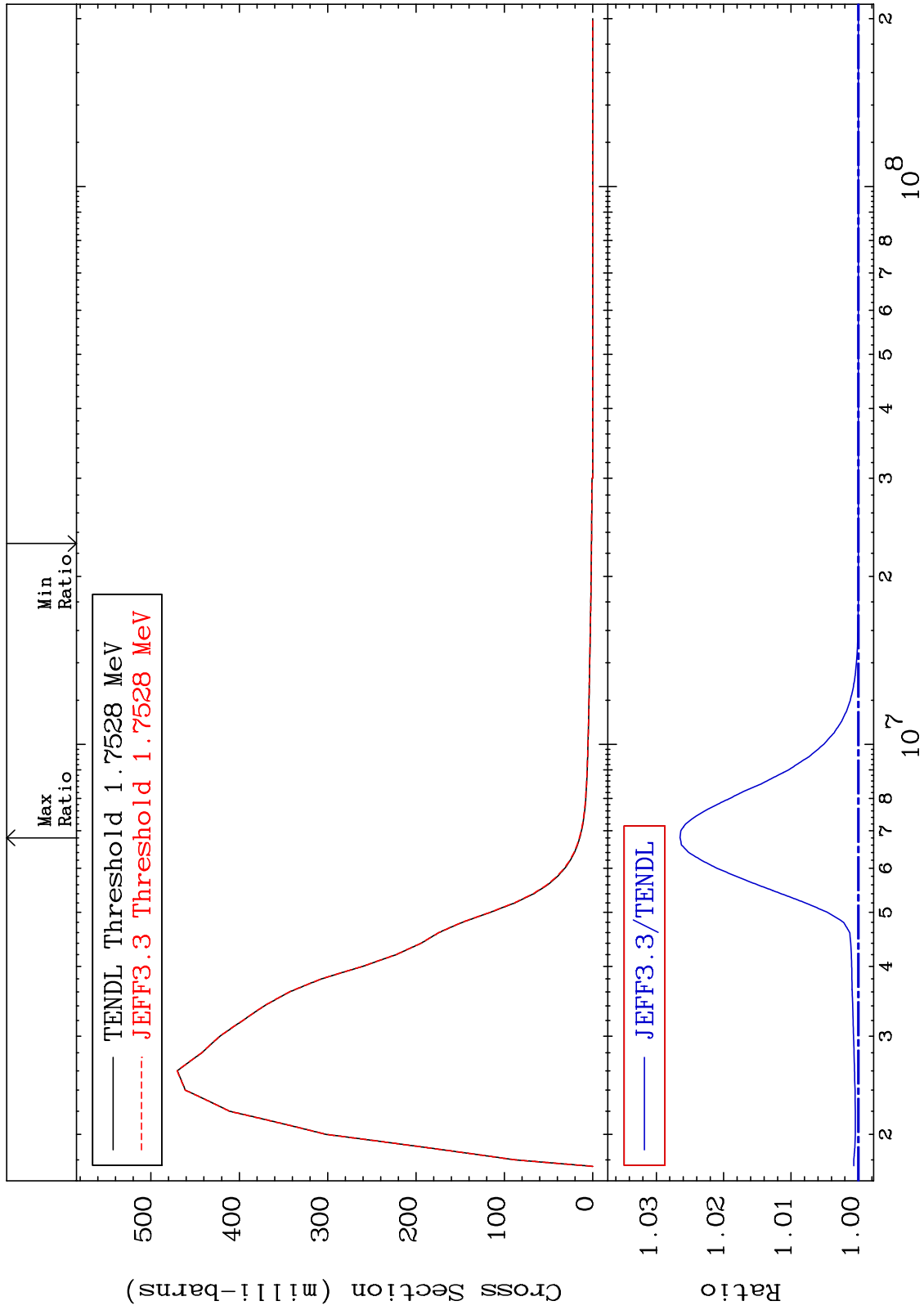
34-Se-82
0.000 To 1.388 %



MAT 3449

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

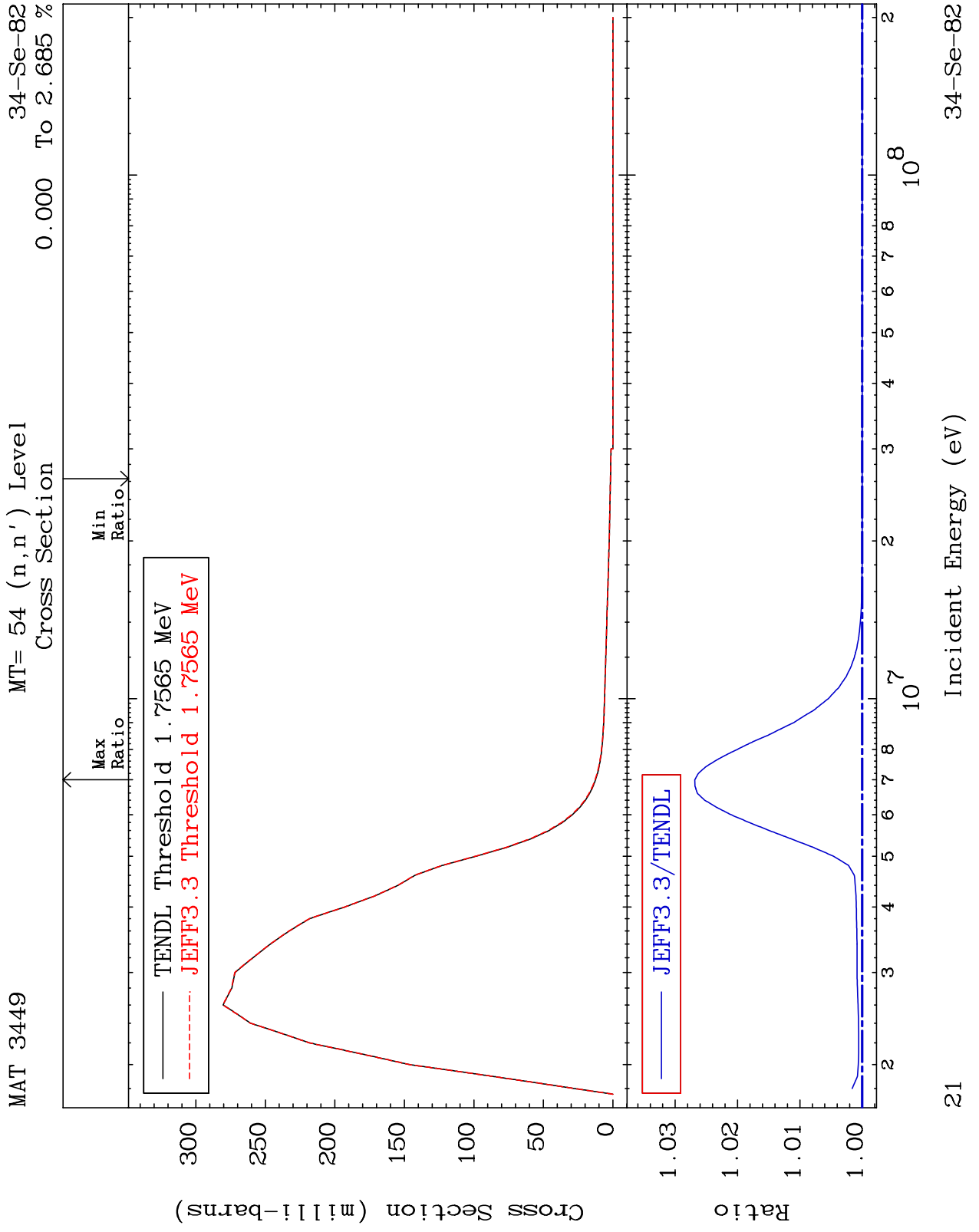
34-Se-82
0.000 To 2.648 %



20

Incident Energy (eV)

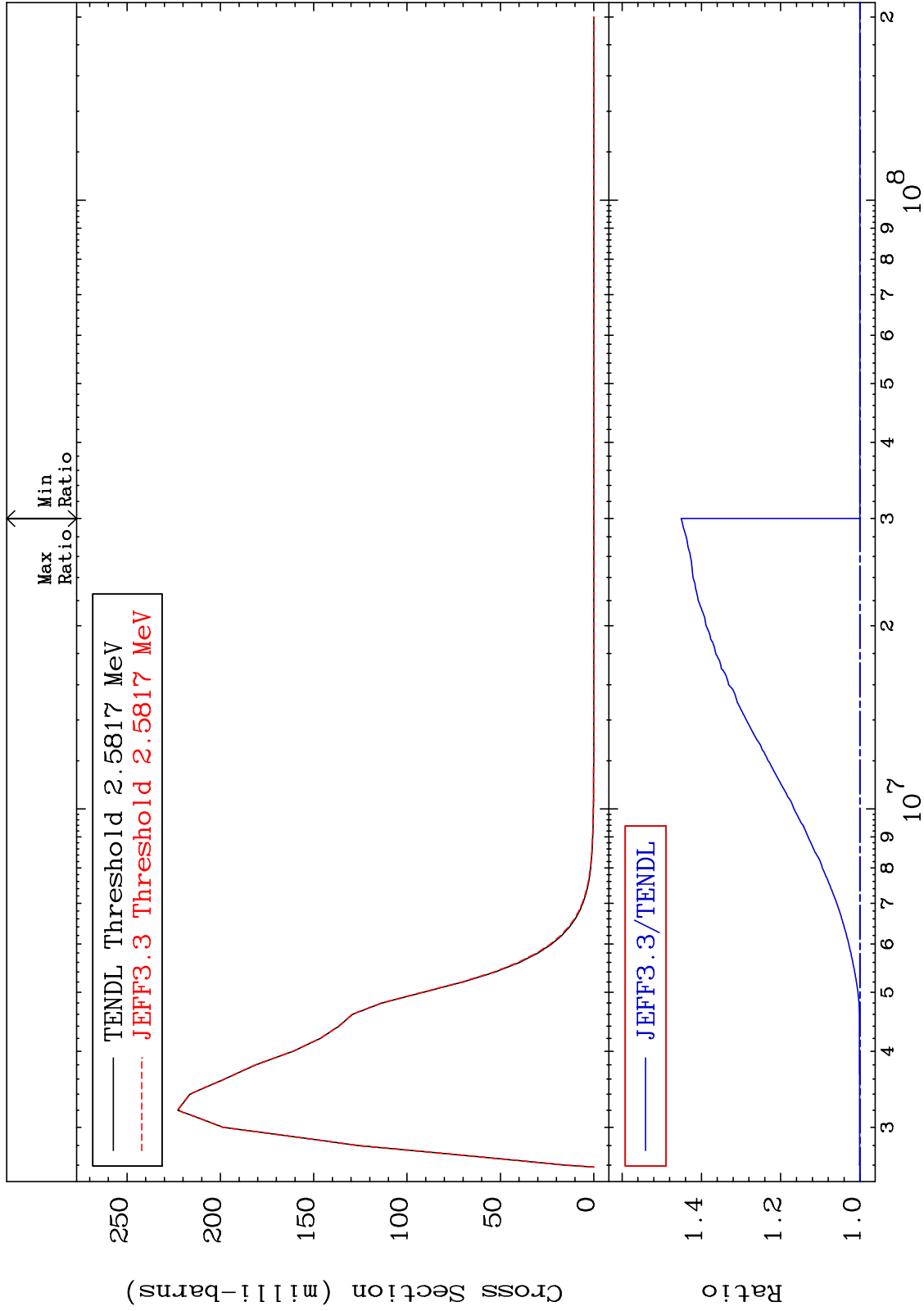
34-Se-82



MAT 3449

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

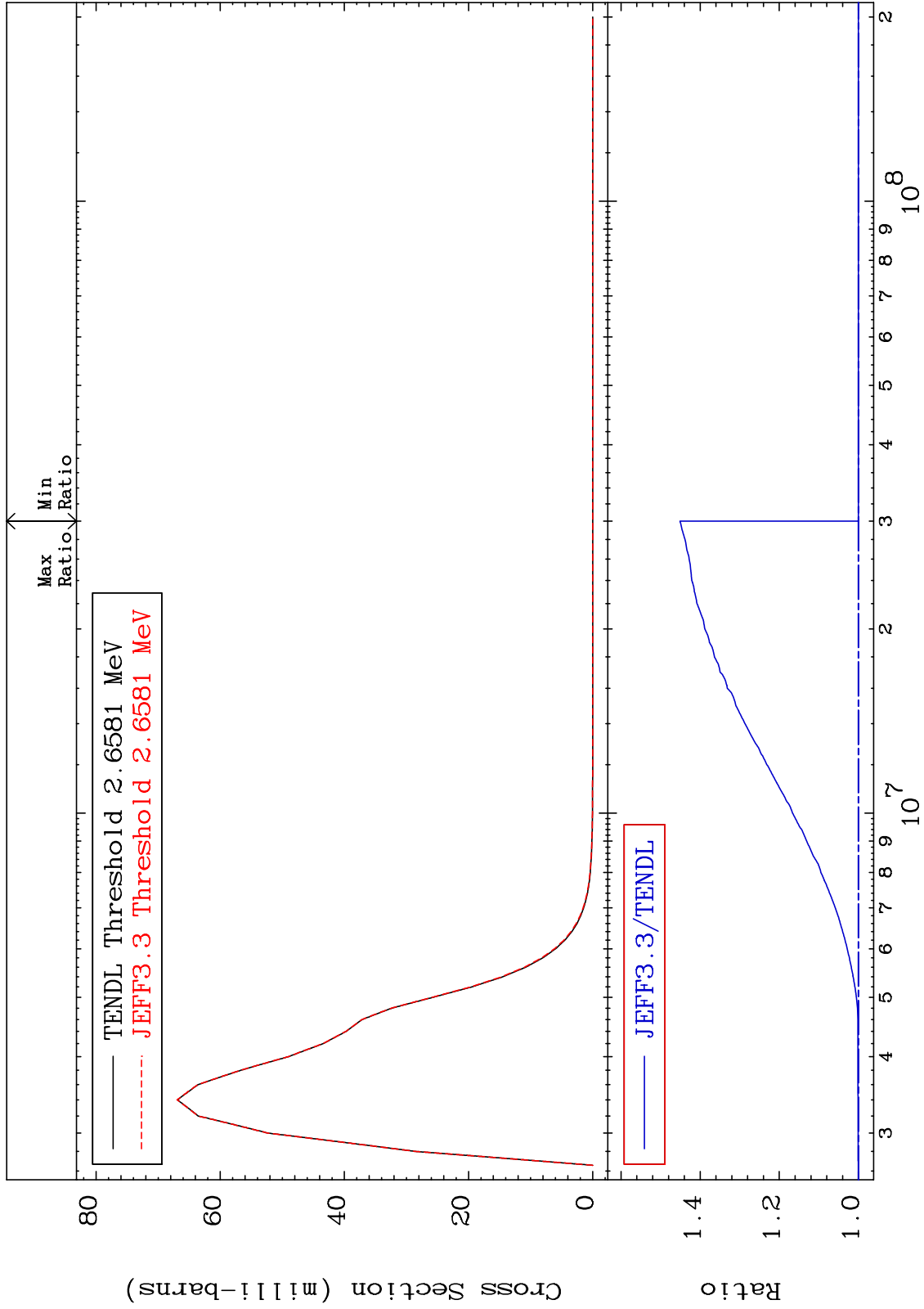
34-Se-82
0.000 To 45.08 %

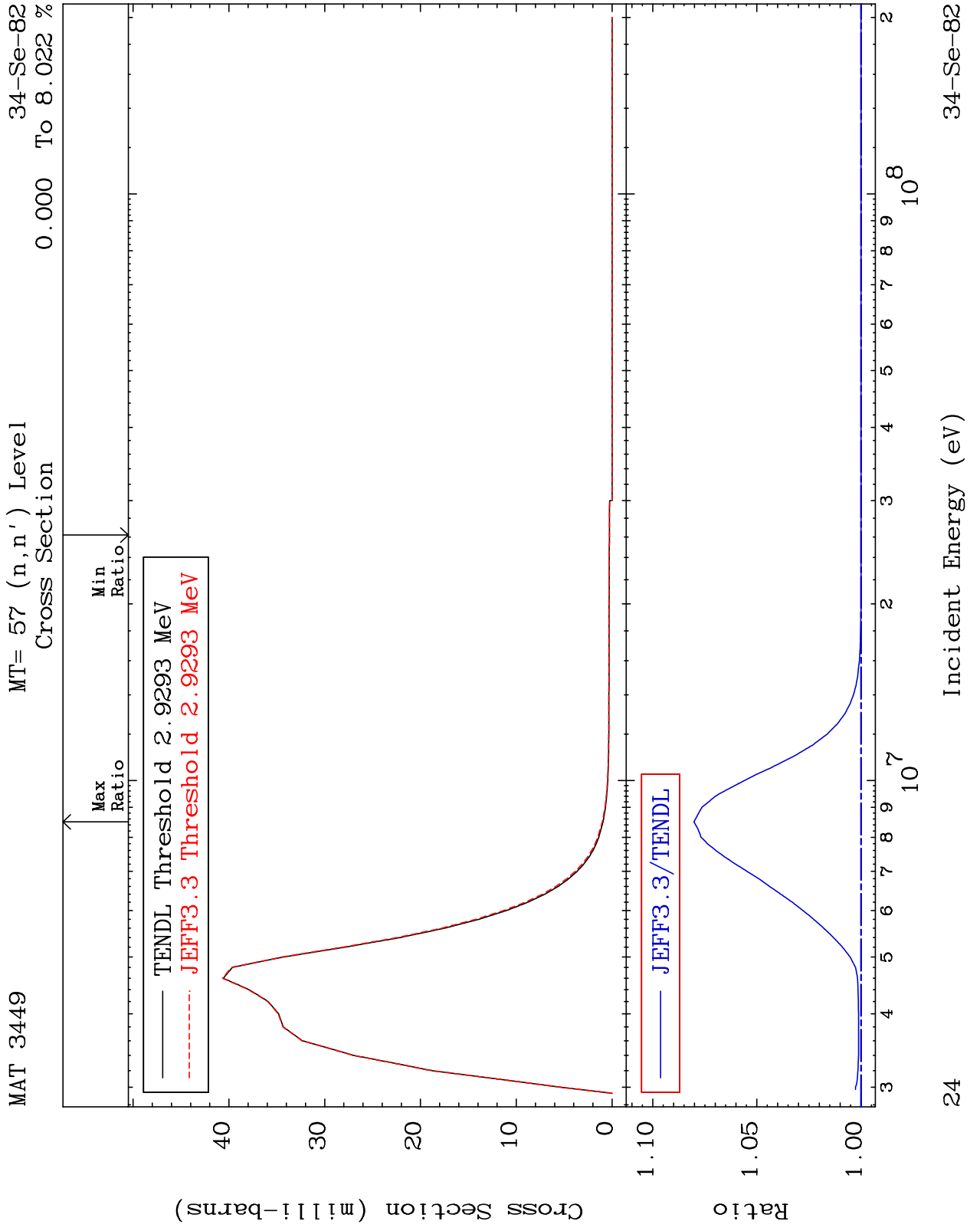


MAT 3449

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

34-Se-82
0.000 To 45.09 %

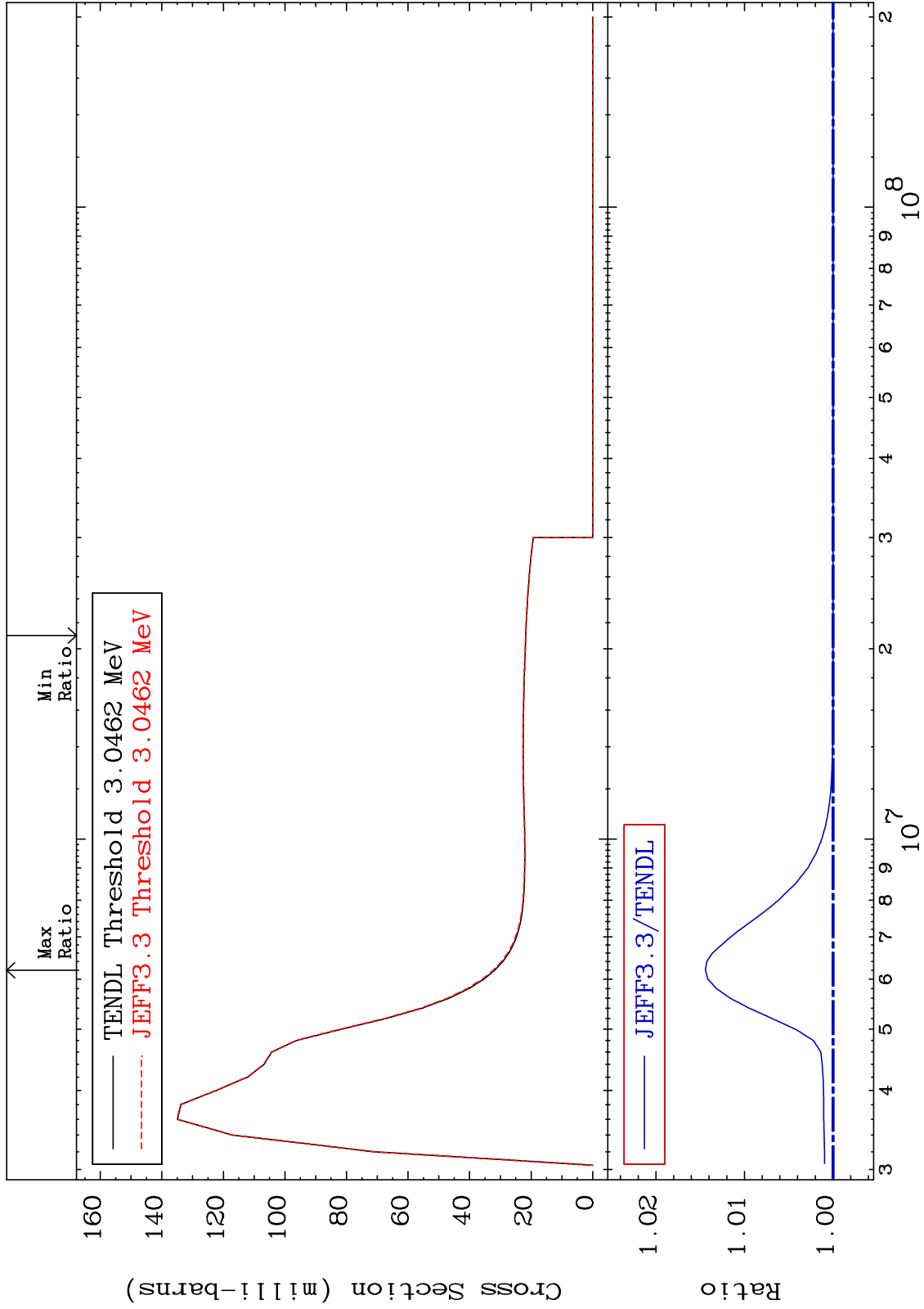




MAT 3449

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

34-Se-82
0.000 To 1.441 %



25

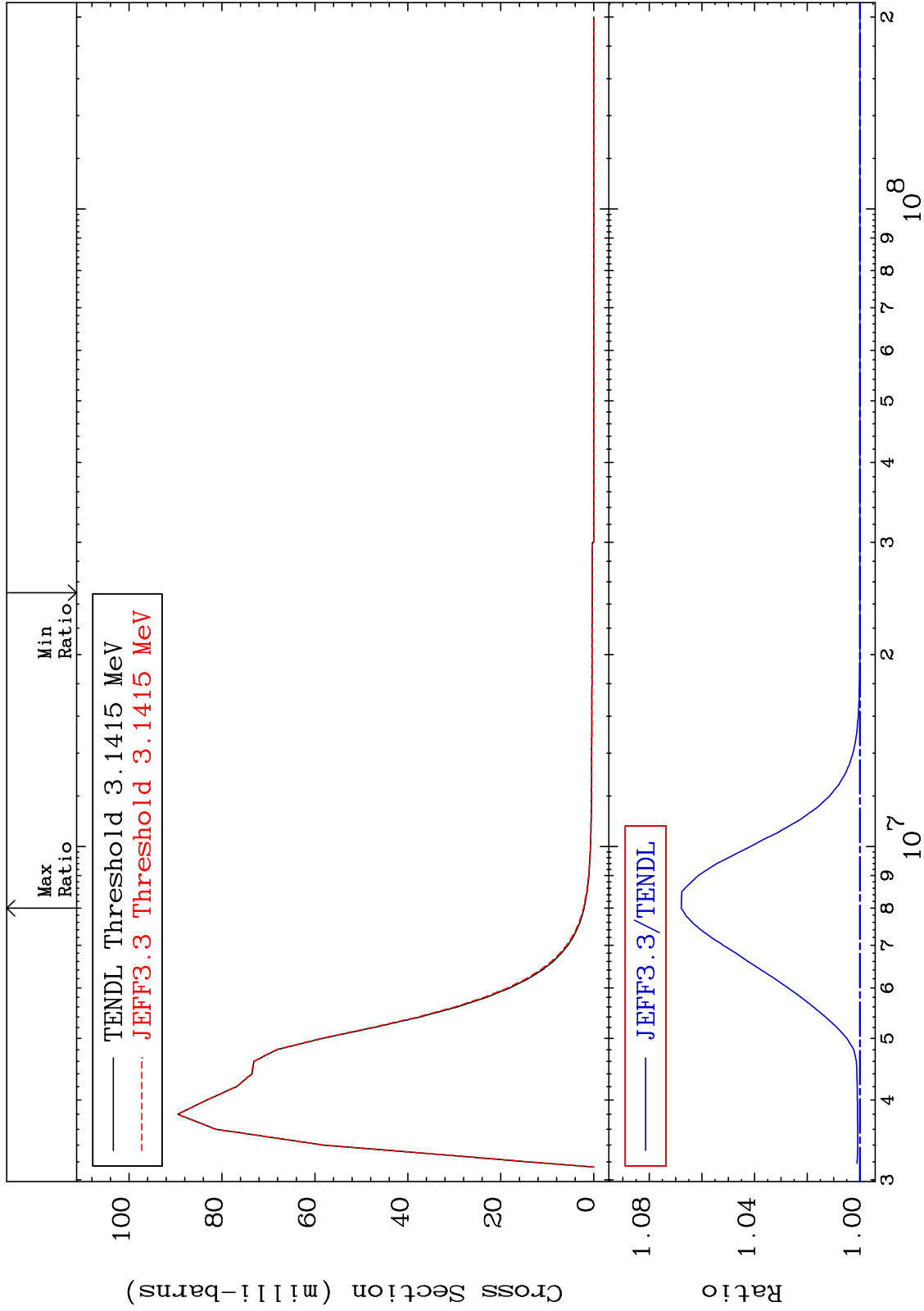
Incident Energy (eV)

34-Se-82

MAT 3449

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

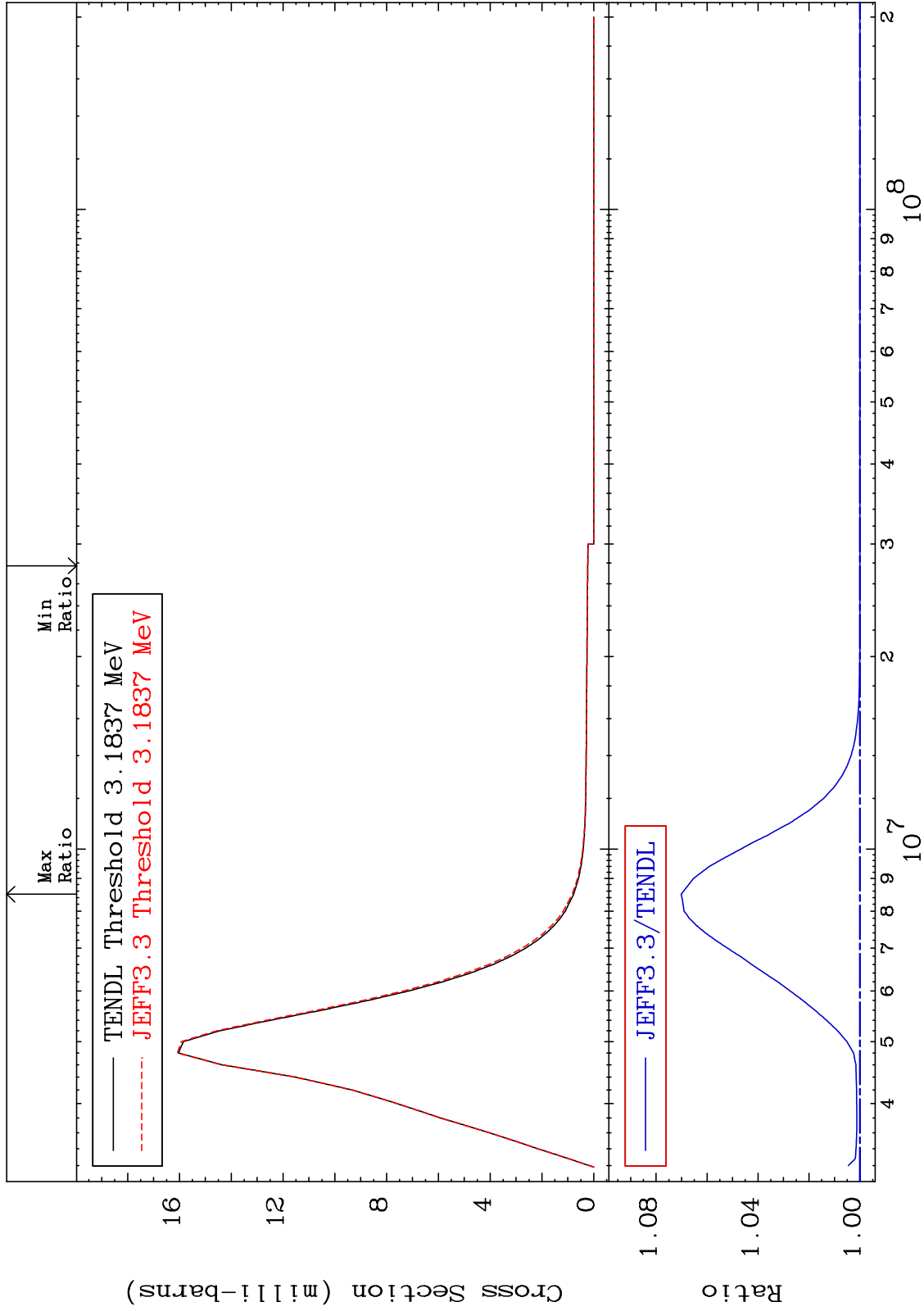
34-Se-82
0.000 To 6.786 %



MAT 3449

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

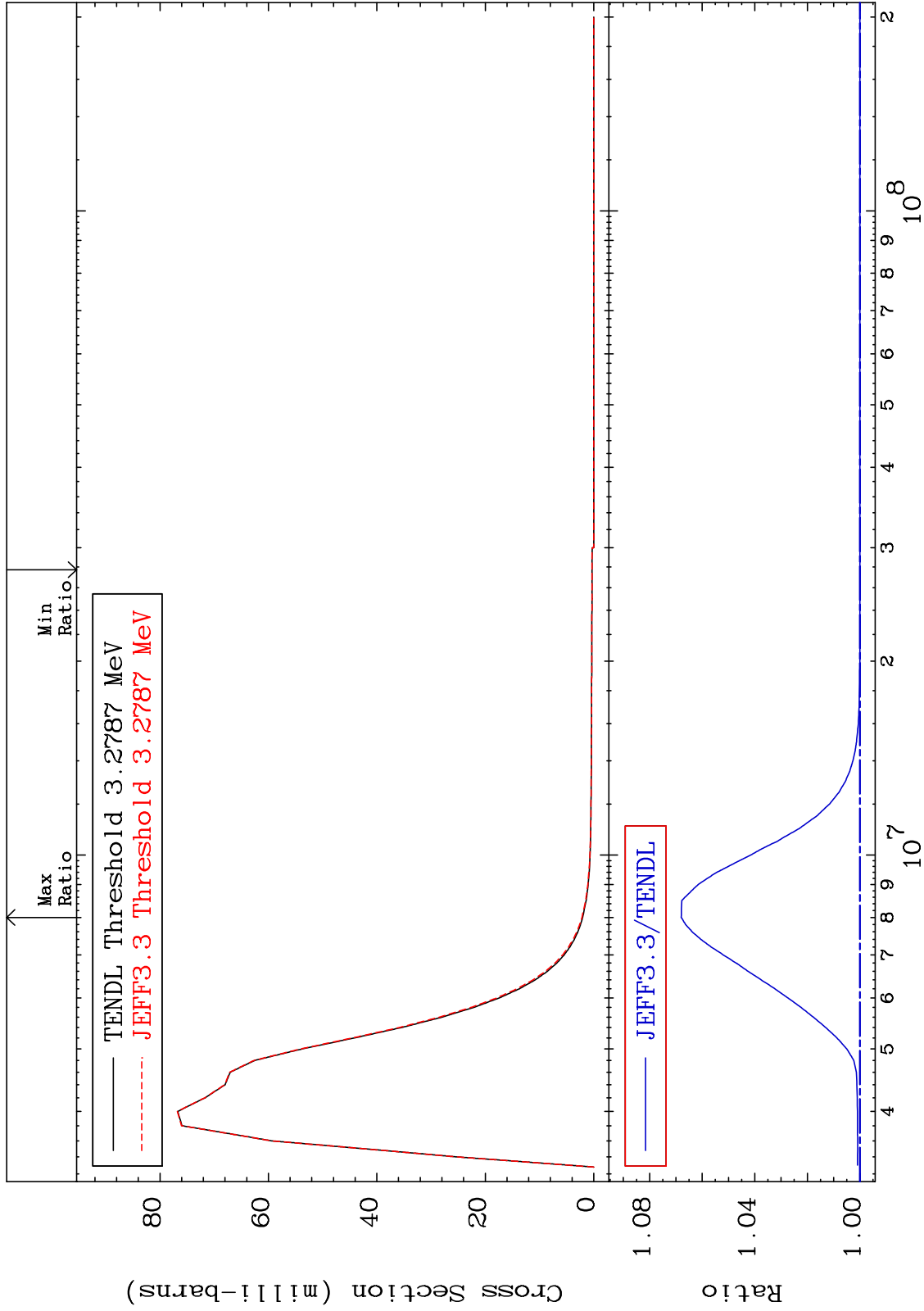
34-Se-82
0.000 To 7.014 %



MAT 3449

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

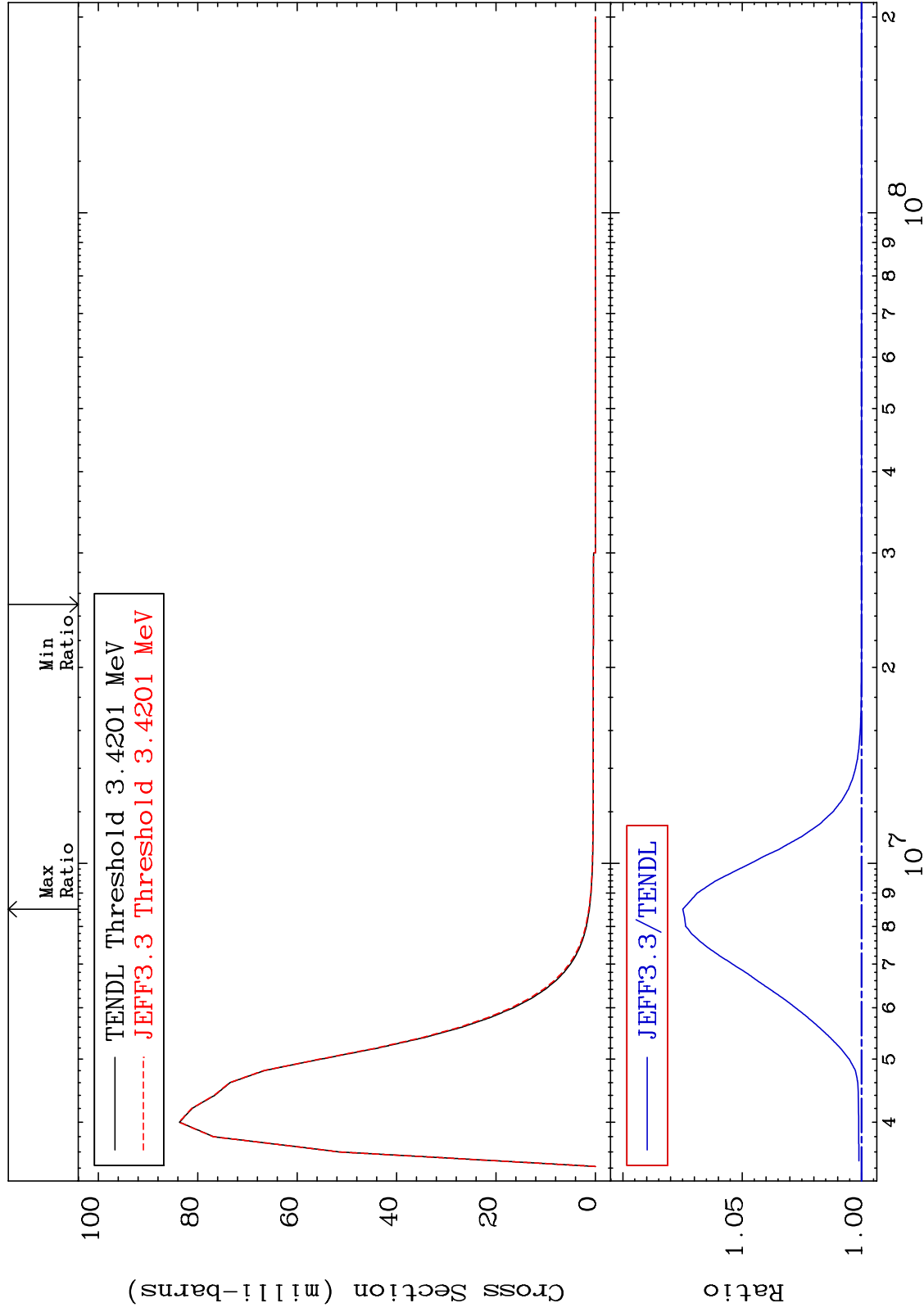
34-Se-82
0.000 To 6.798 %



MAT 3449

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

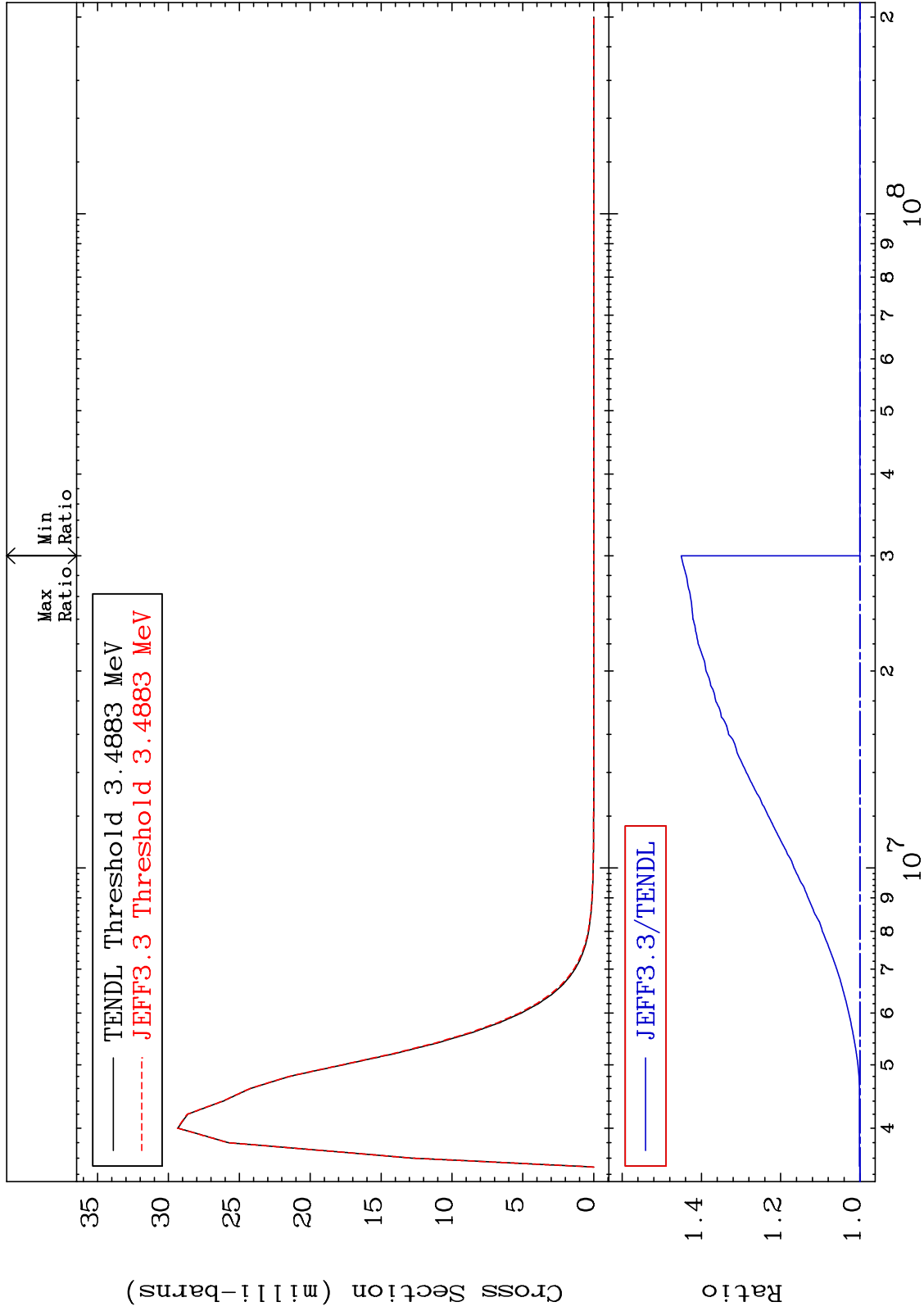
34-Se-82
0.000 To 7.486 %



MAT 3449

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

34-Se-82
0.000 To 45.09 %



30

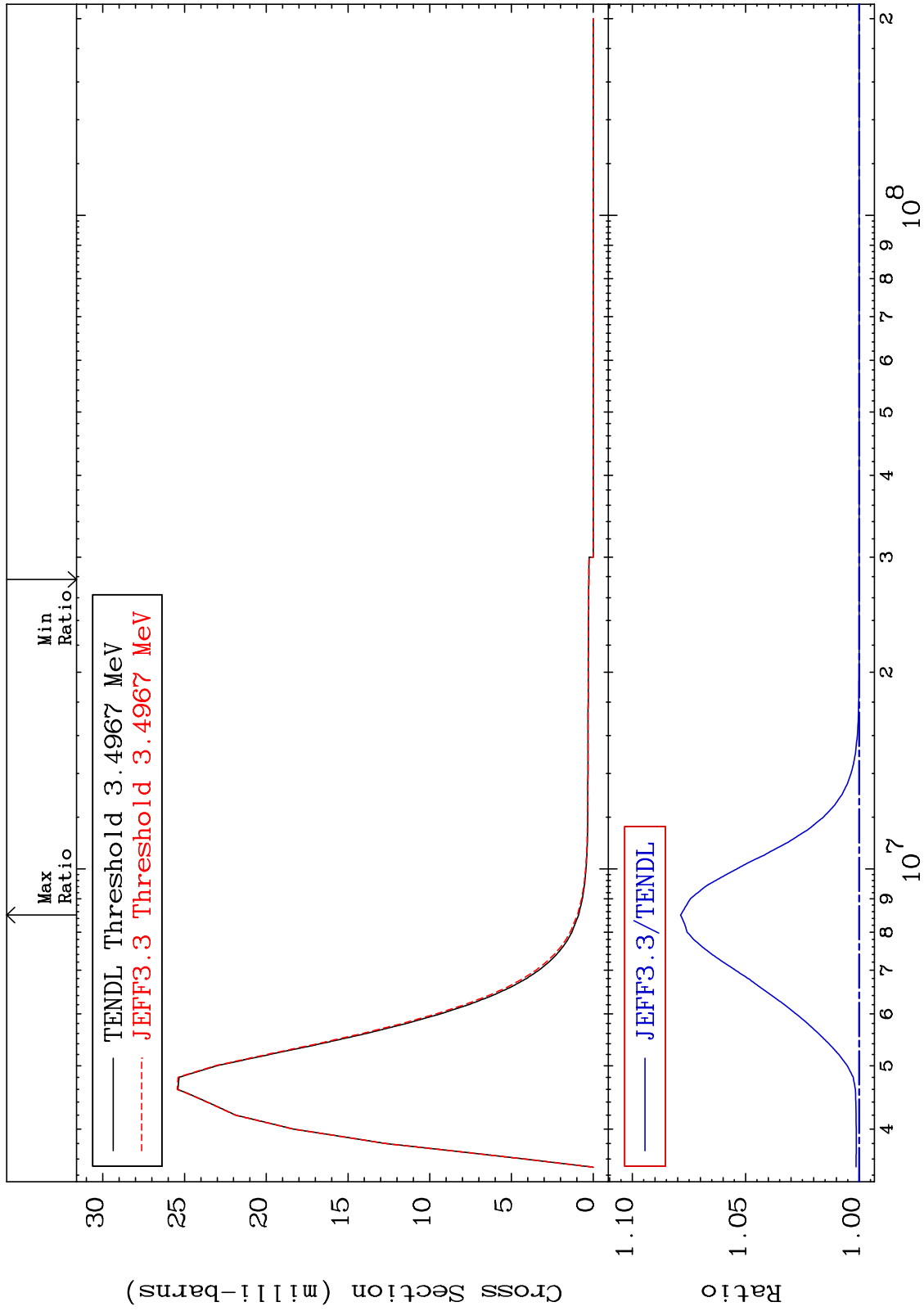
Incident Energy (eV)

34-Se-82

MAT 3449

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

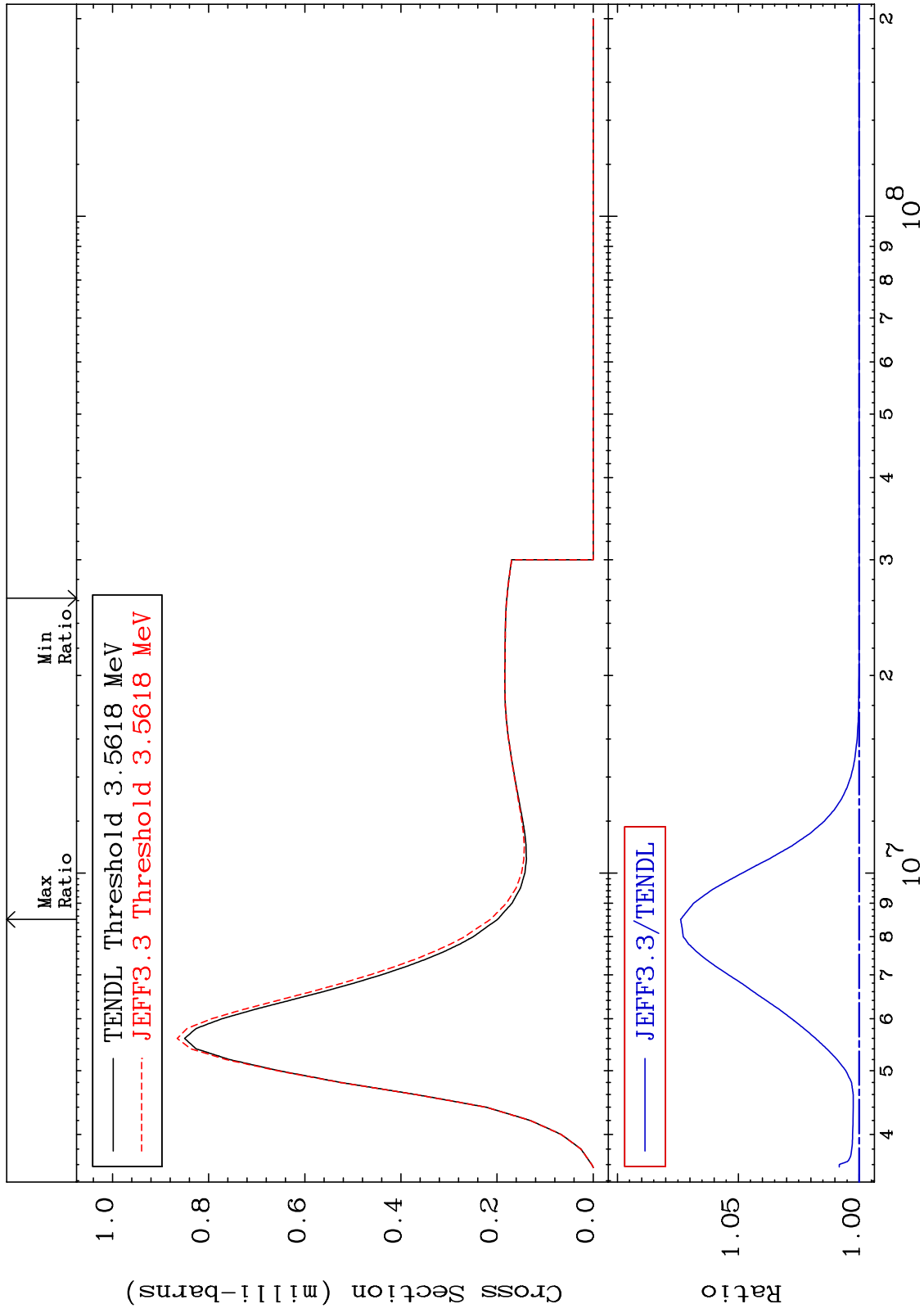
34-Se-82
0.000 To 7.868 %



MAT 3449

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

34-Se-82
0.000 To 7.387 %



32

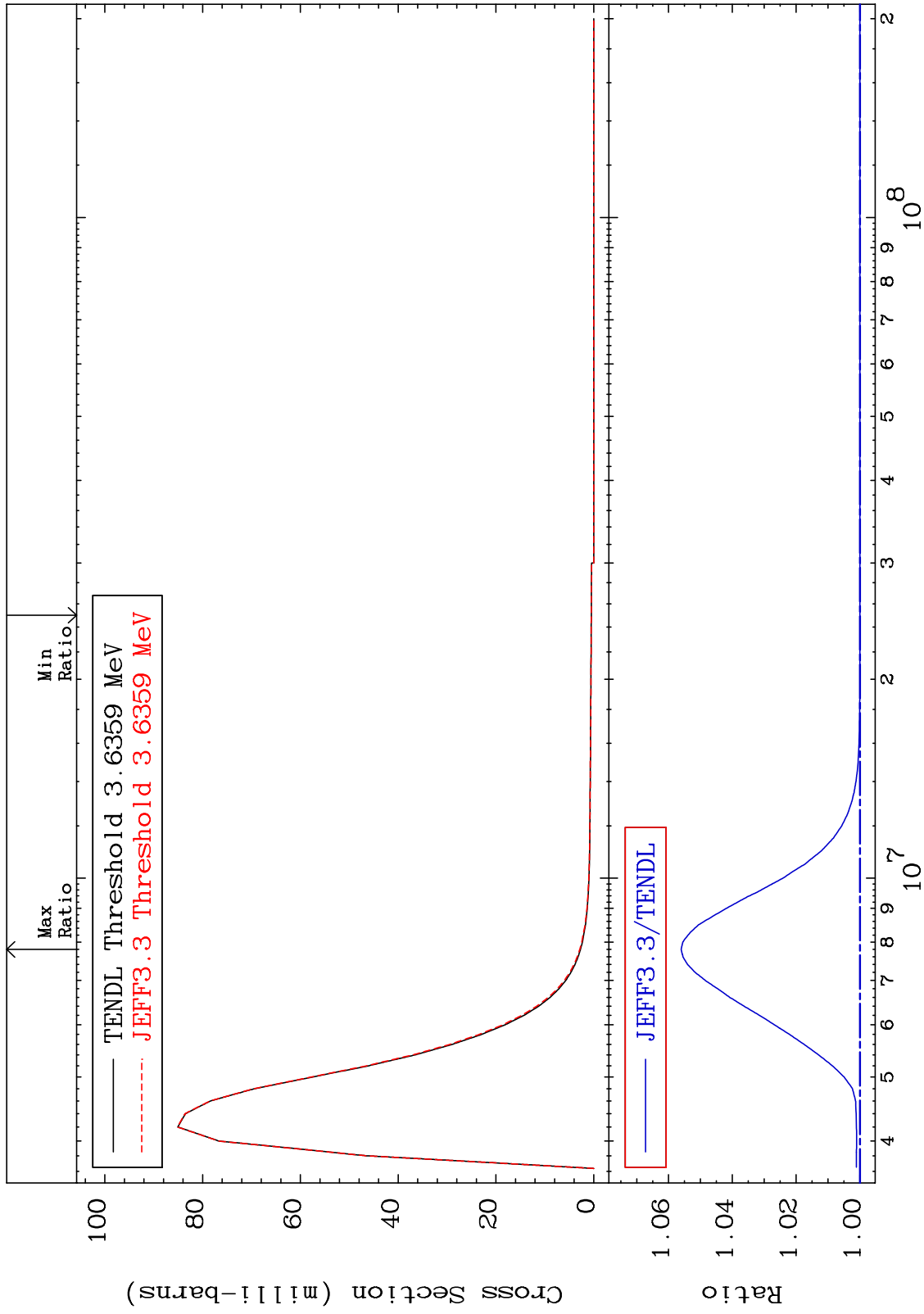
Incident Energy (eV)

34-Se-82

MAT 3449

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

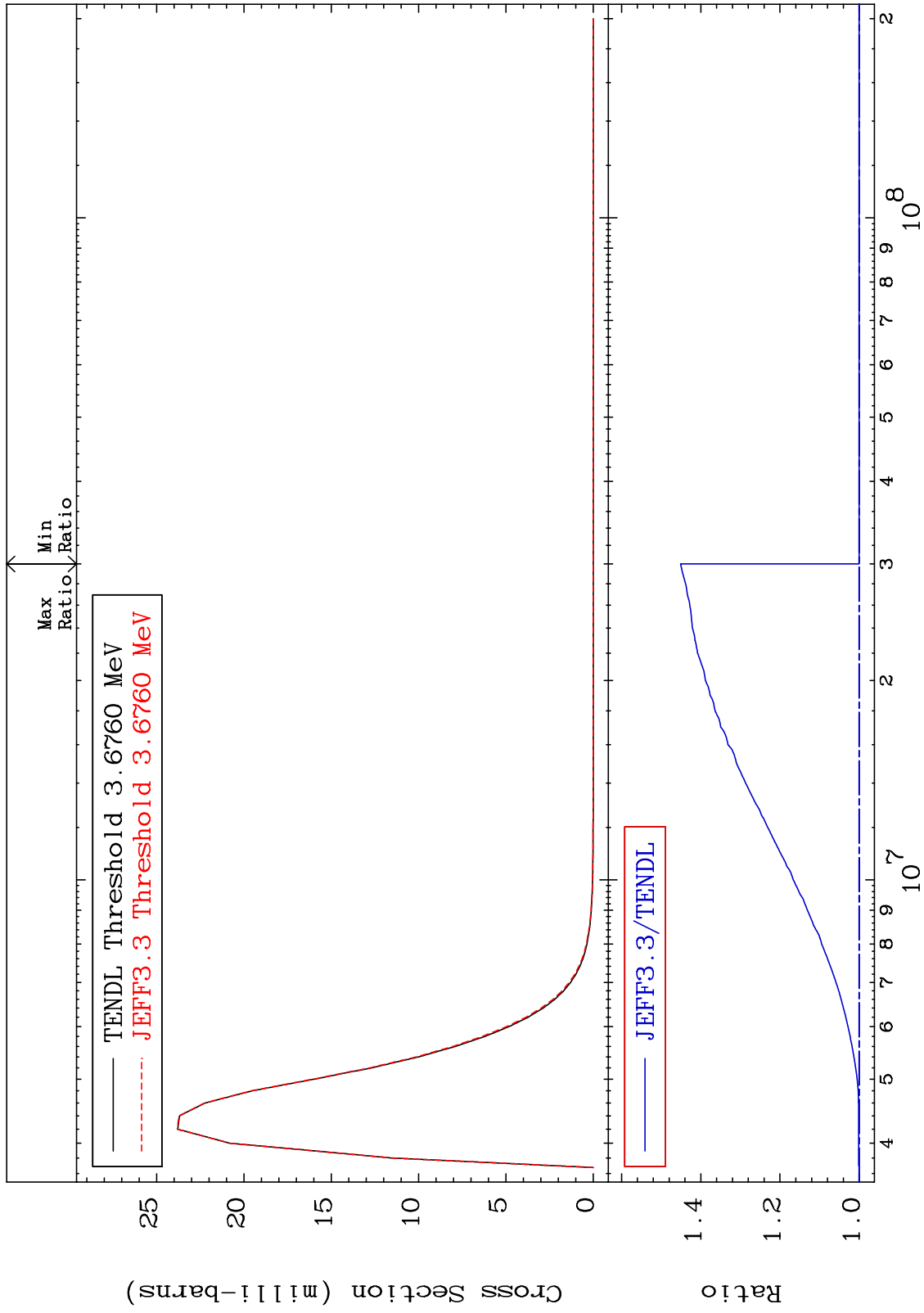
34-Se-82
0.000 To 5.604 %



MAT 3449

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

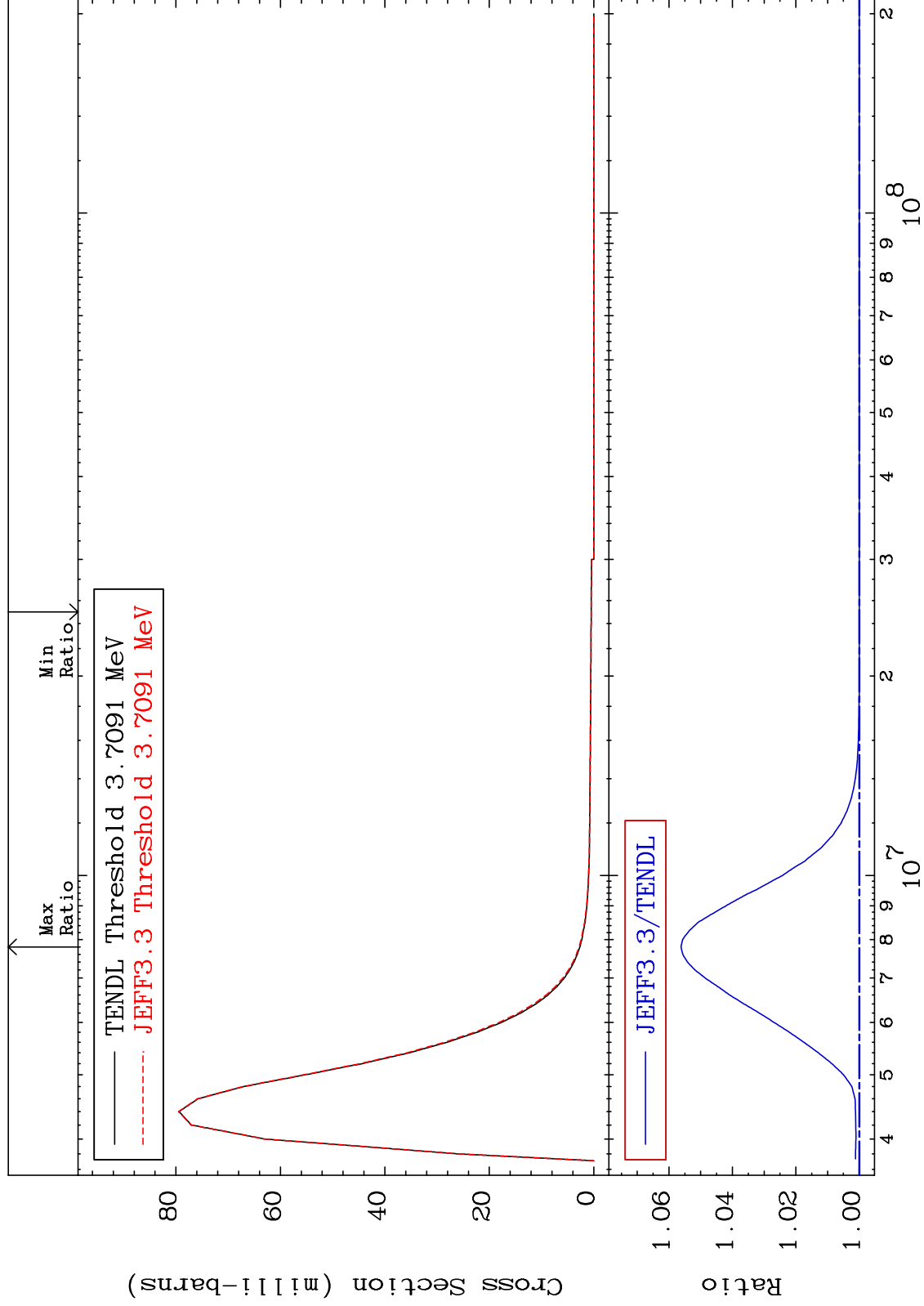
34-Se-82
0.000 To 45.09 %



MAT 3449

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

34-Se-82
0.000 To 5.619 %



35

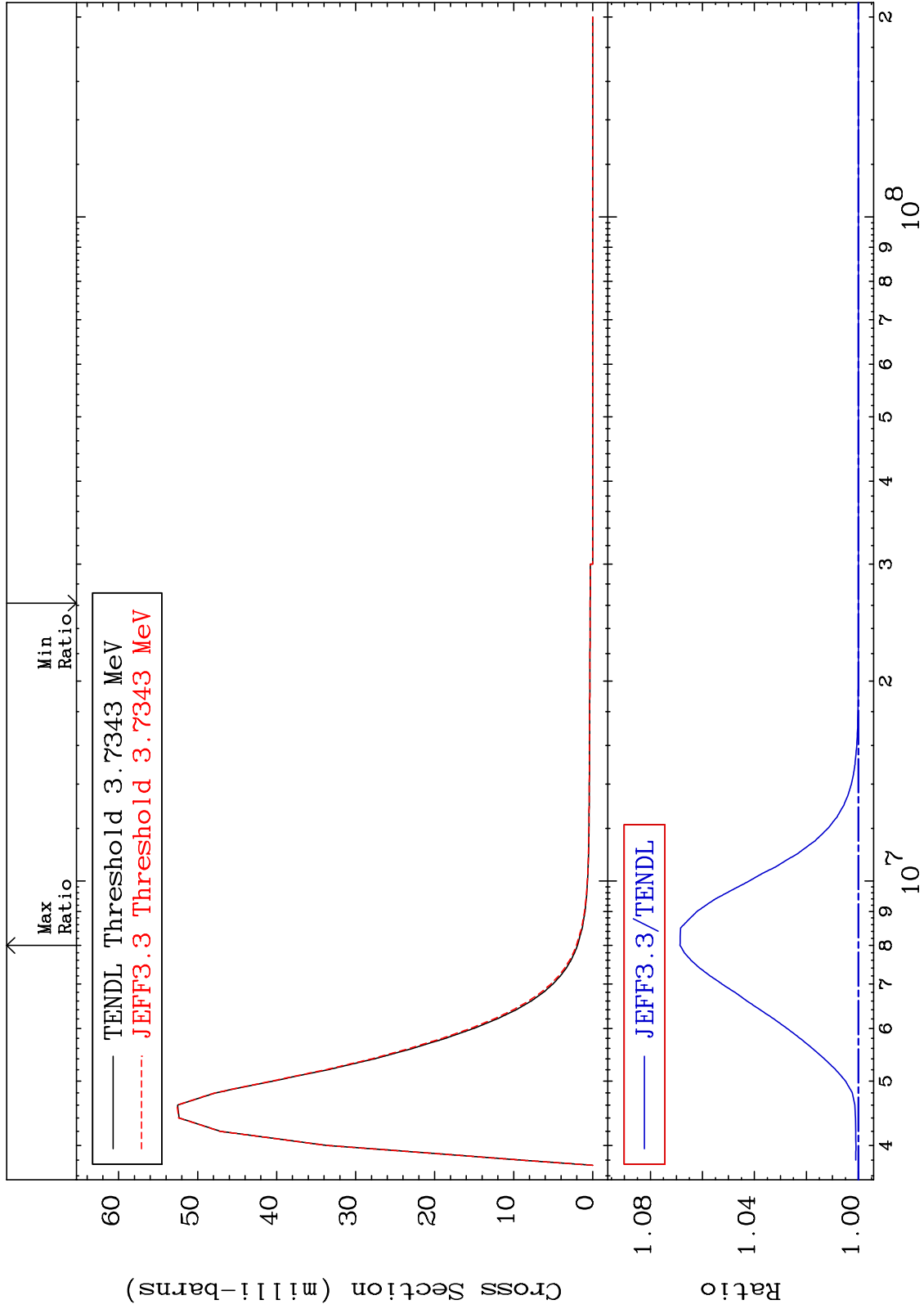
Incident Energy (eV)

34-Se-82

MAT 3449

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

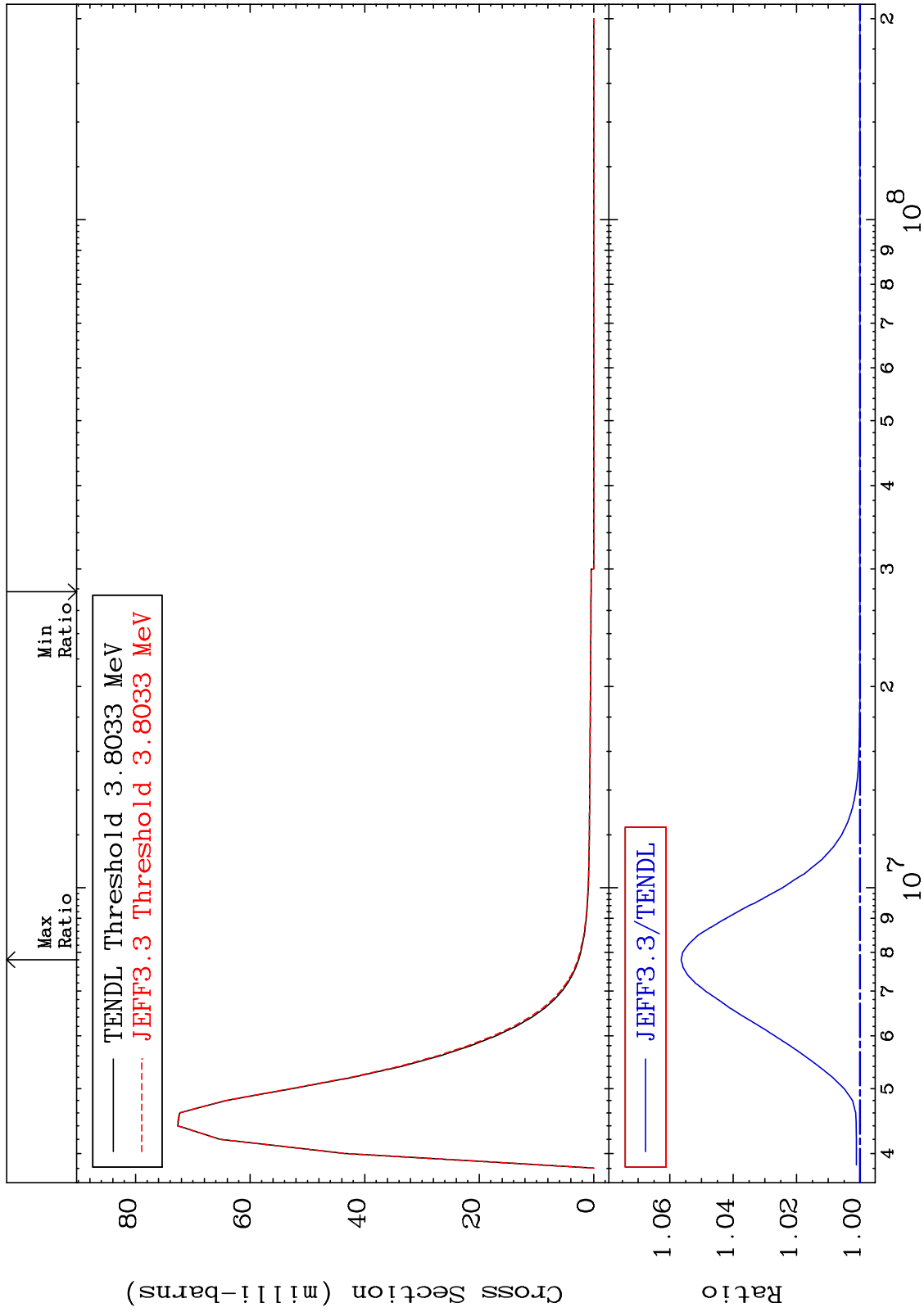
34-Se-82
0.000 To 6.862 %

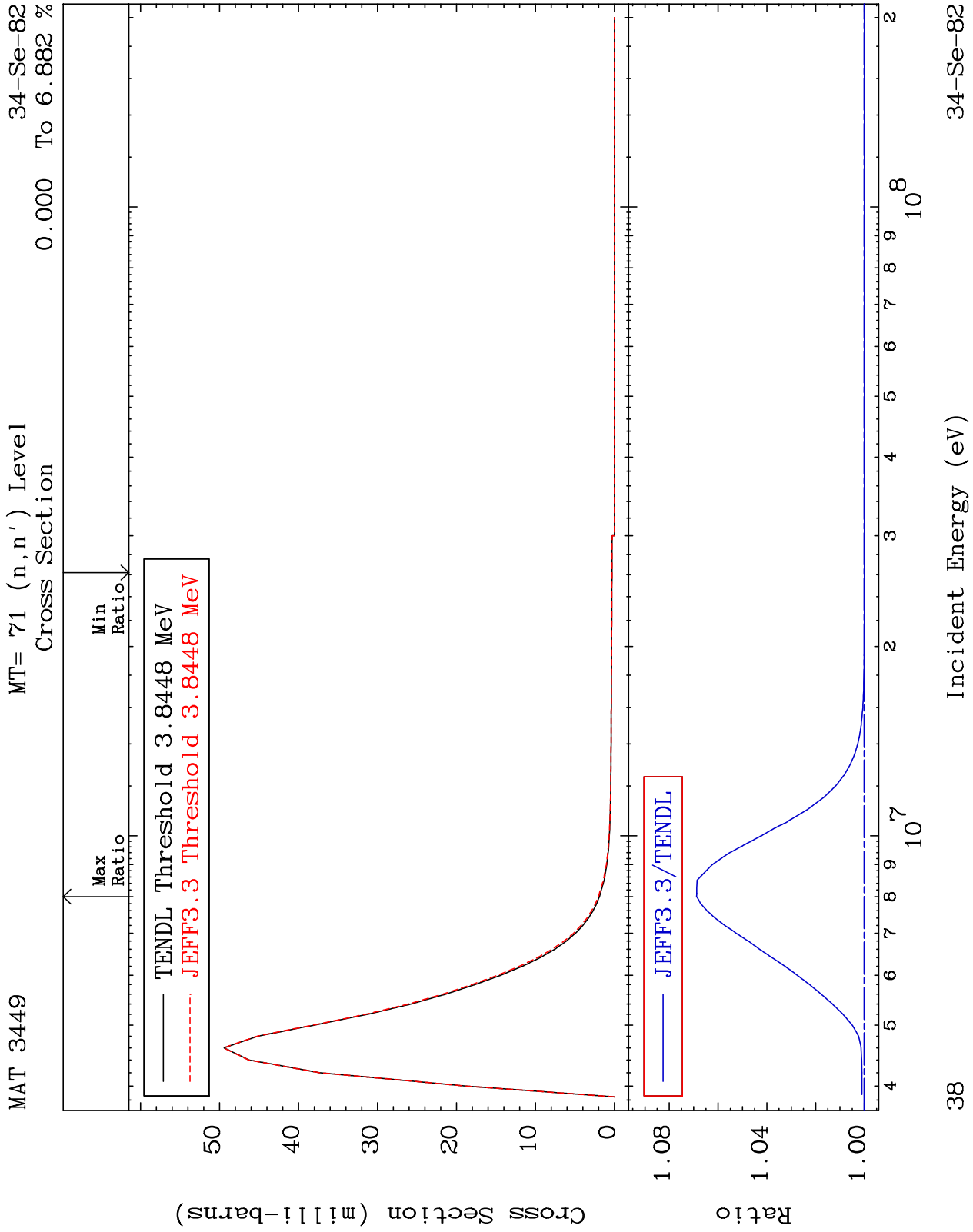


MAT 3449

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

34-Se-82
0.000 To 5.641 %

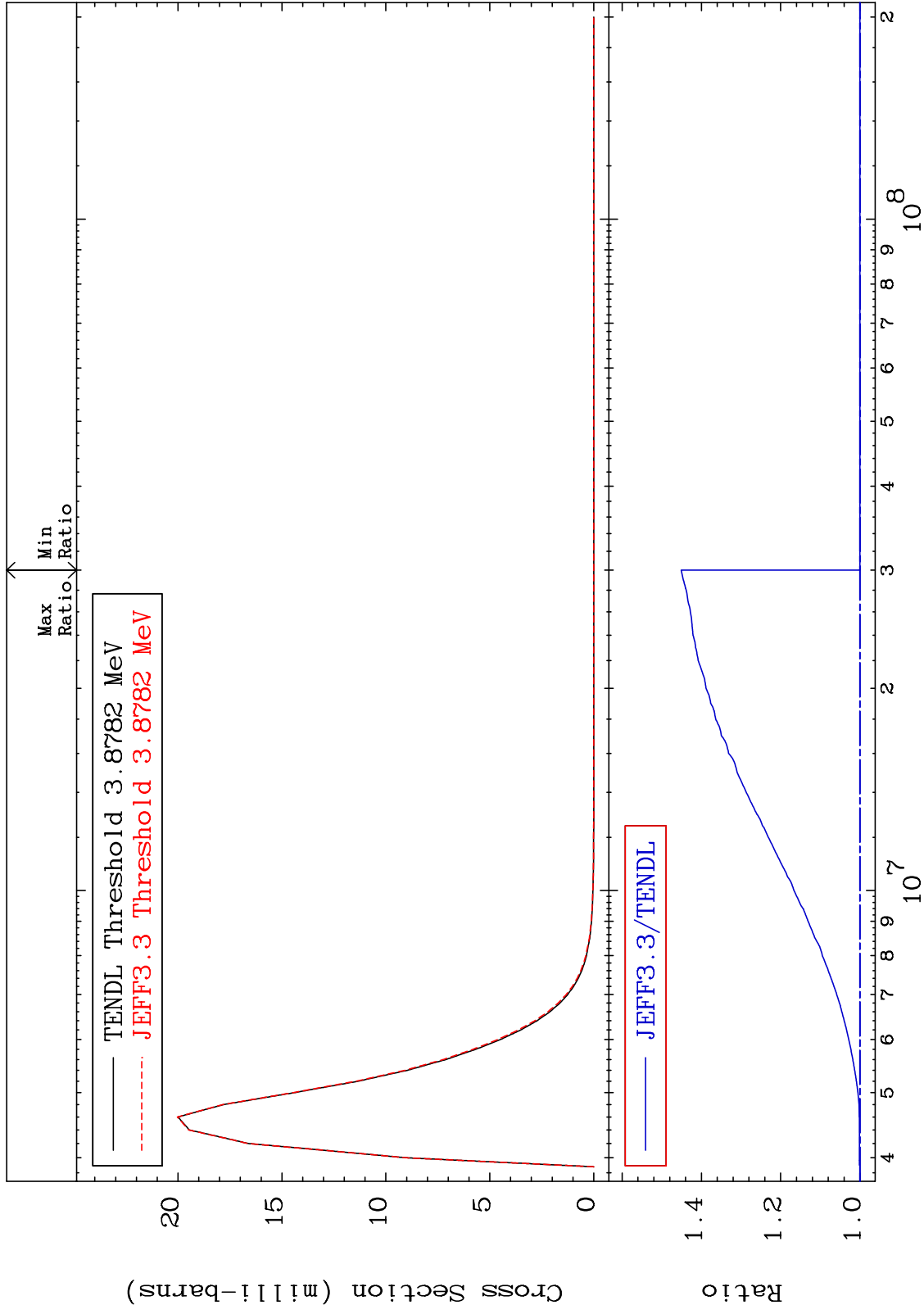




MAT 3449

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

34-Se-82
0.000 To 45.09 %

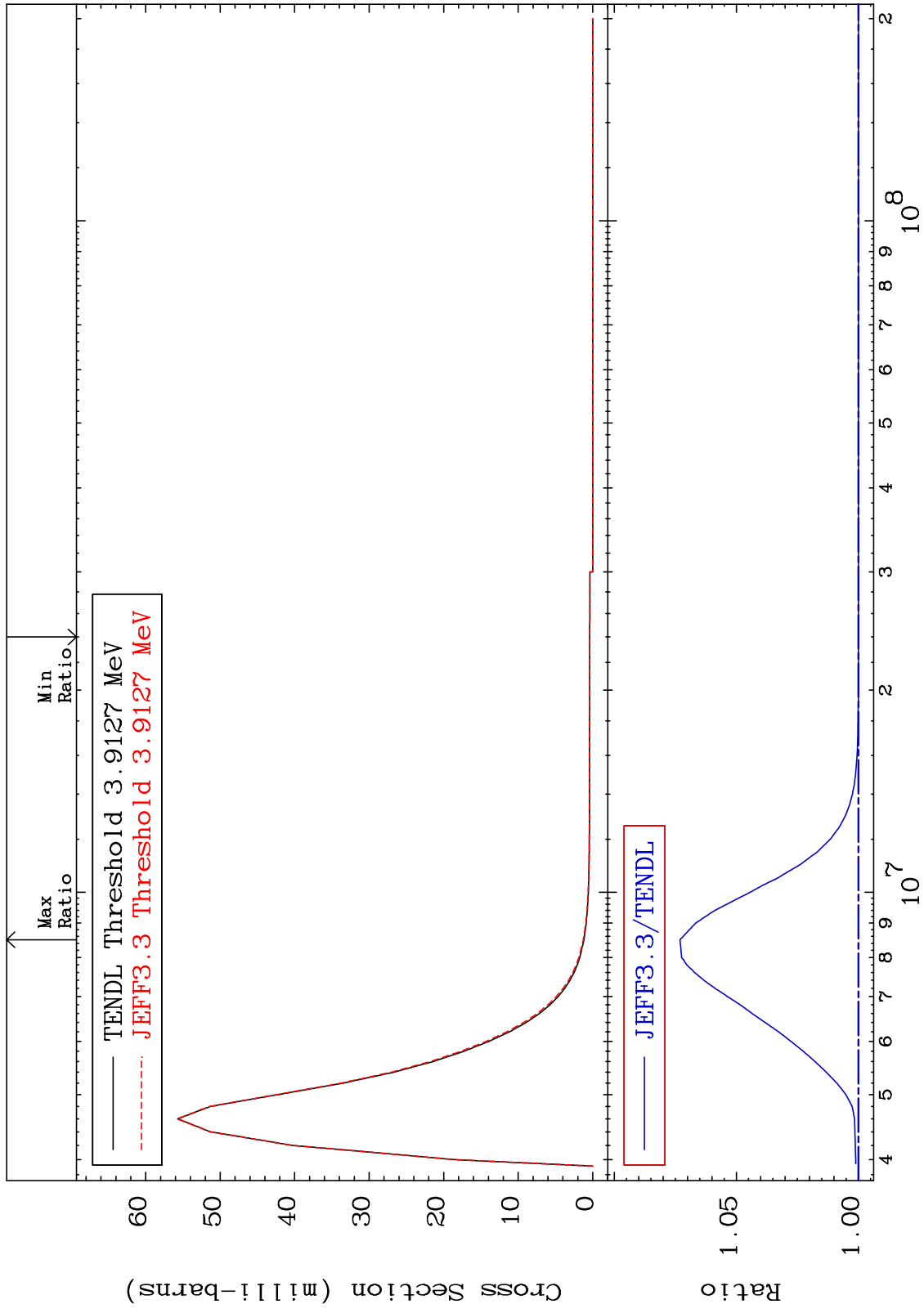


39

Incident Energy (eV)

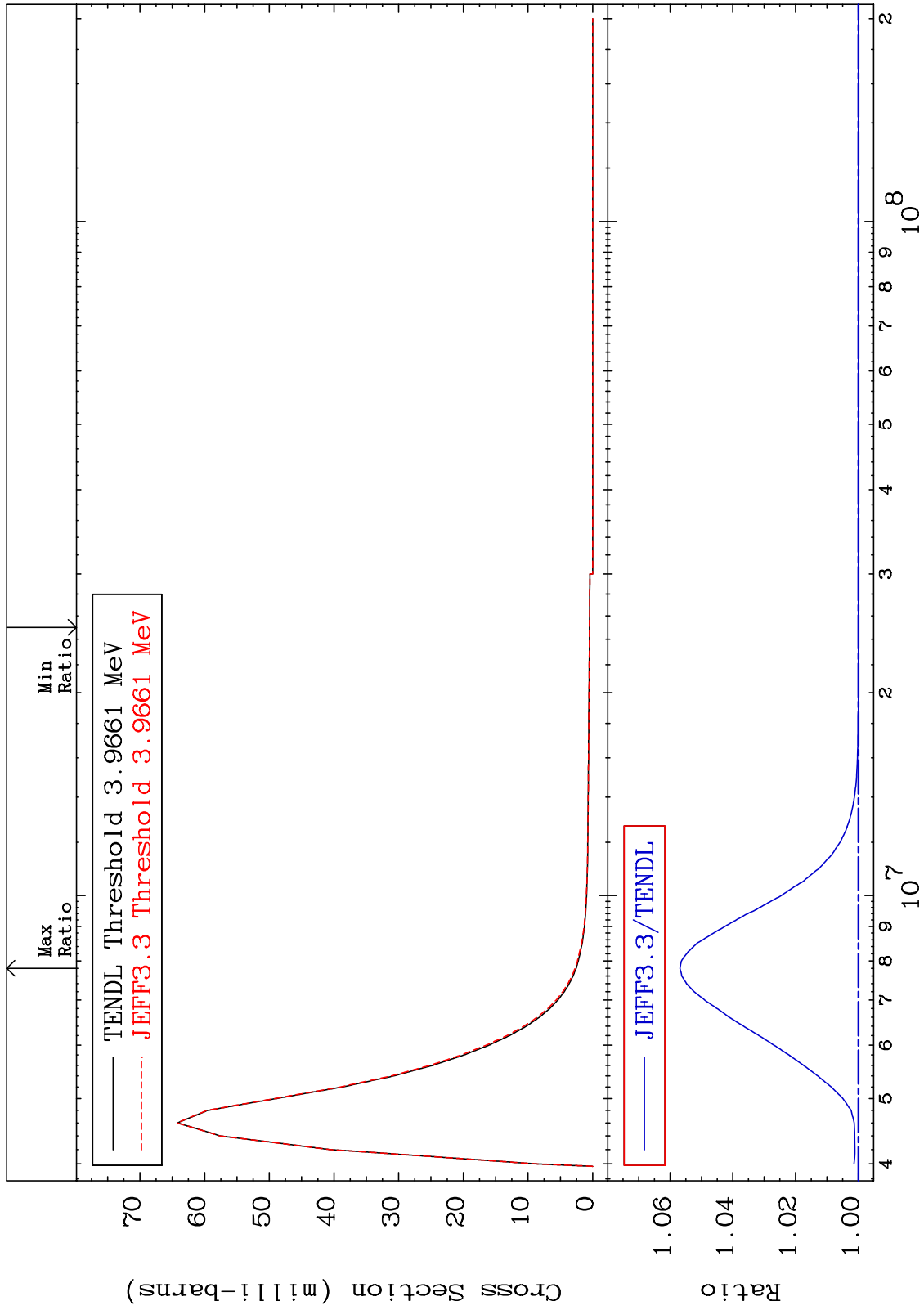
34-Se-82

MAT 3449 MT= 73 (n,n') Level Cross Section 34-Se-82 To 7.307 %



40 Incident Energy (eV) 34-Se-82

MAT 3449 MT= 74 (n,n') Level Cross Section 34-Se-82 To 5.683 %

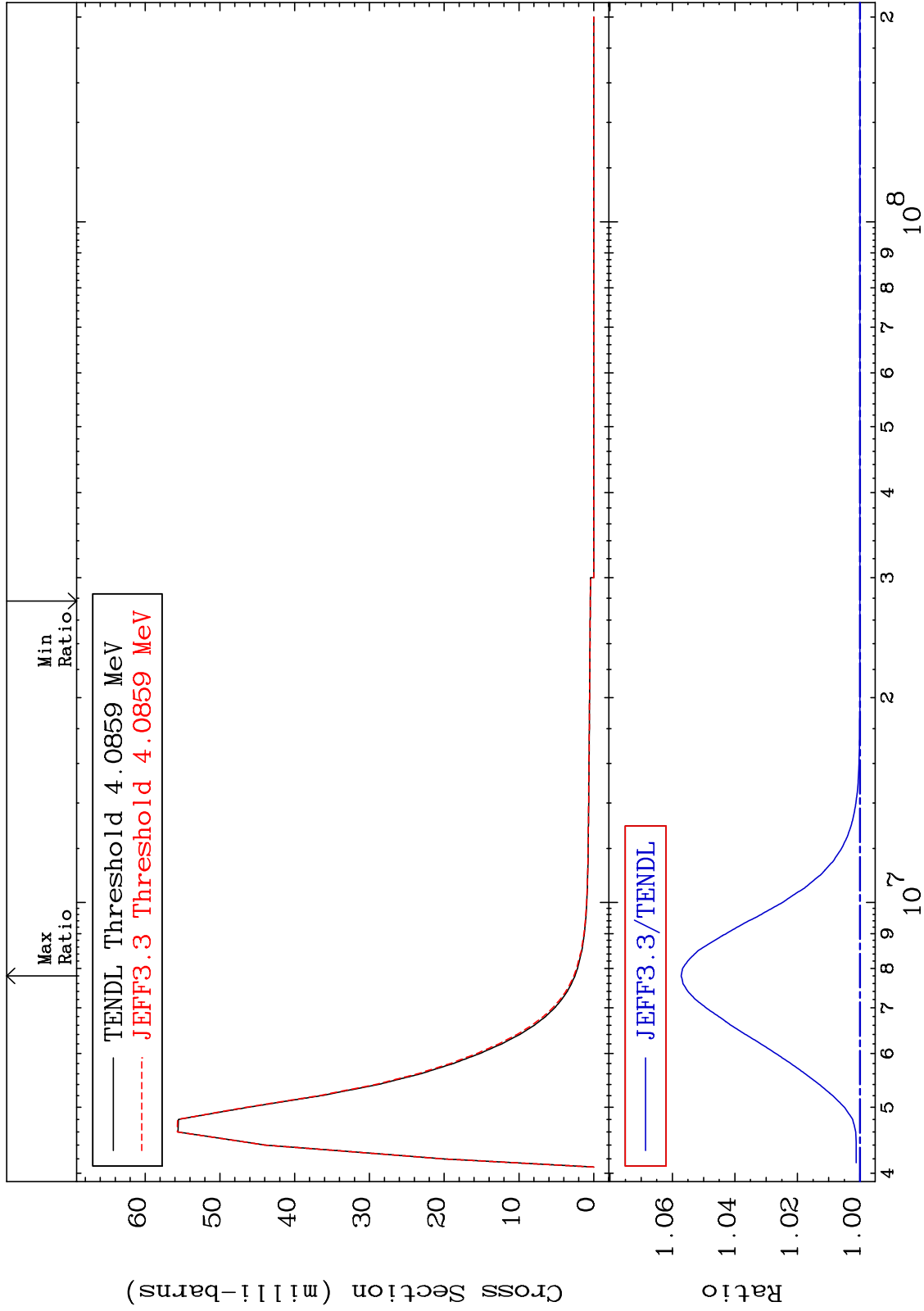


34-Se-82

MAT 3449

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

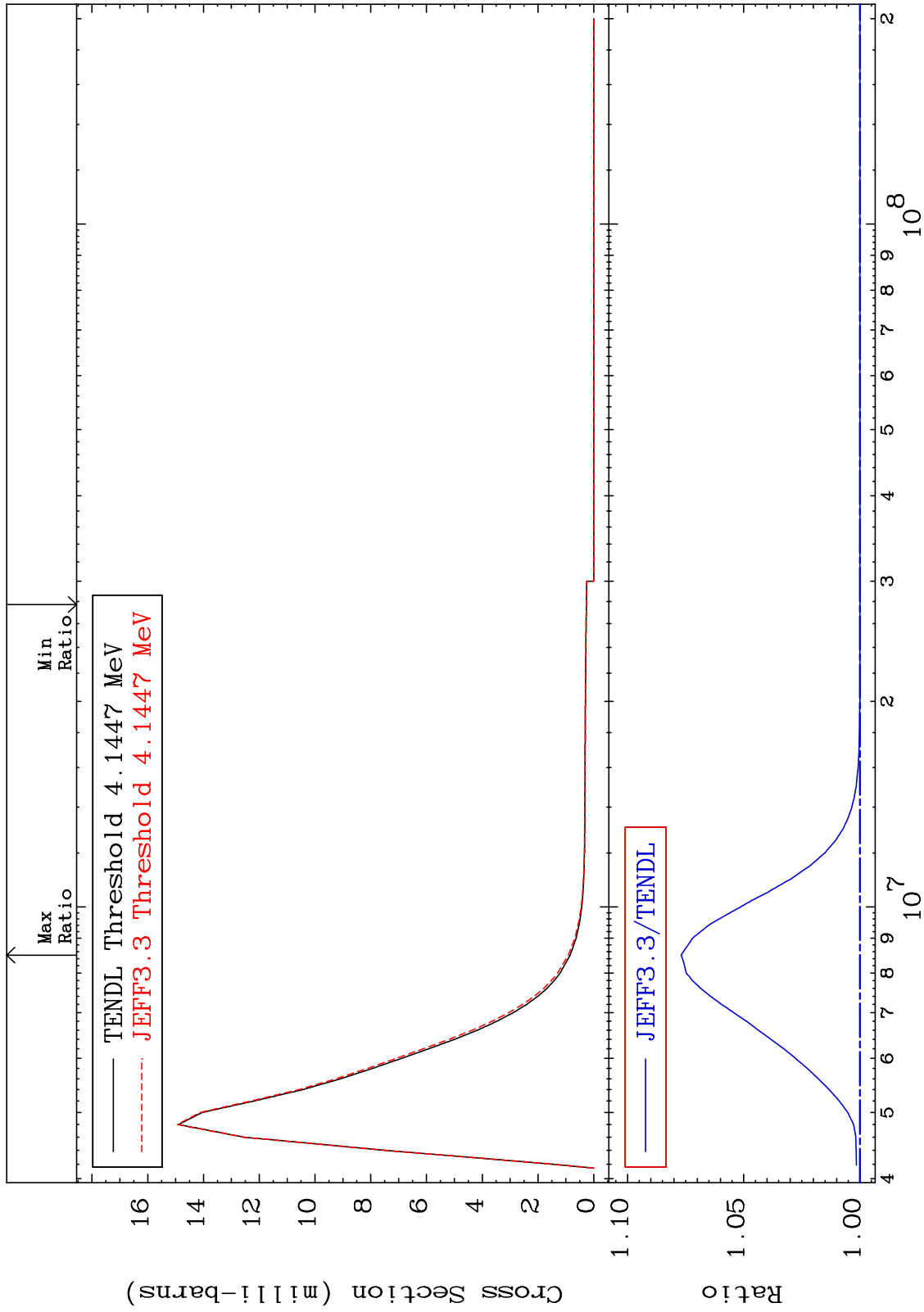
34-Se-82
0.000 To 5.716 %



MAT 3449

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

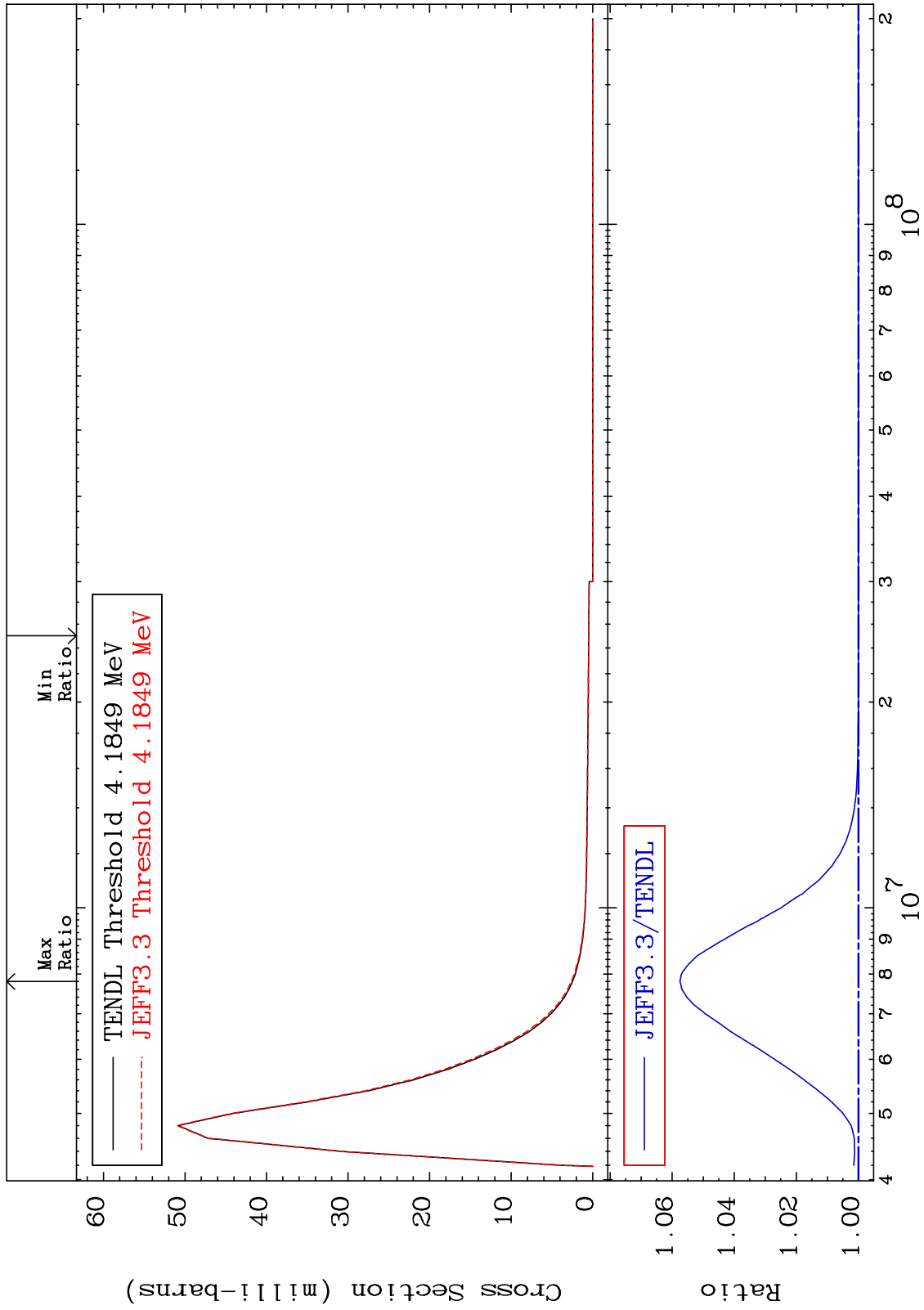
34-Se-82
0.000 To 7.690 %



43

34-Se-82

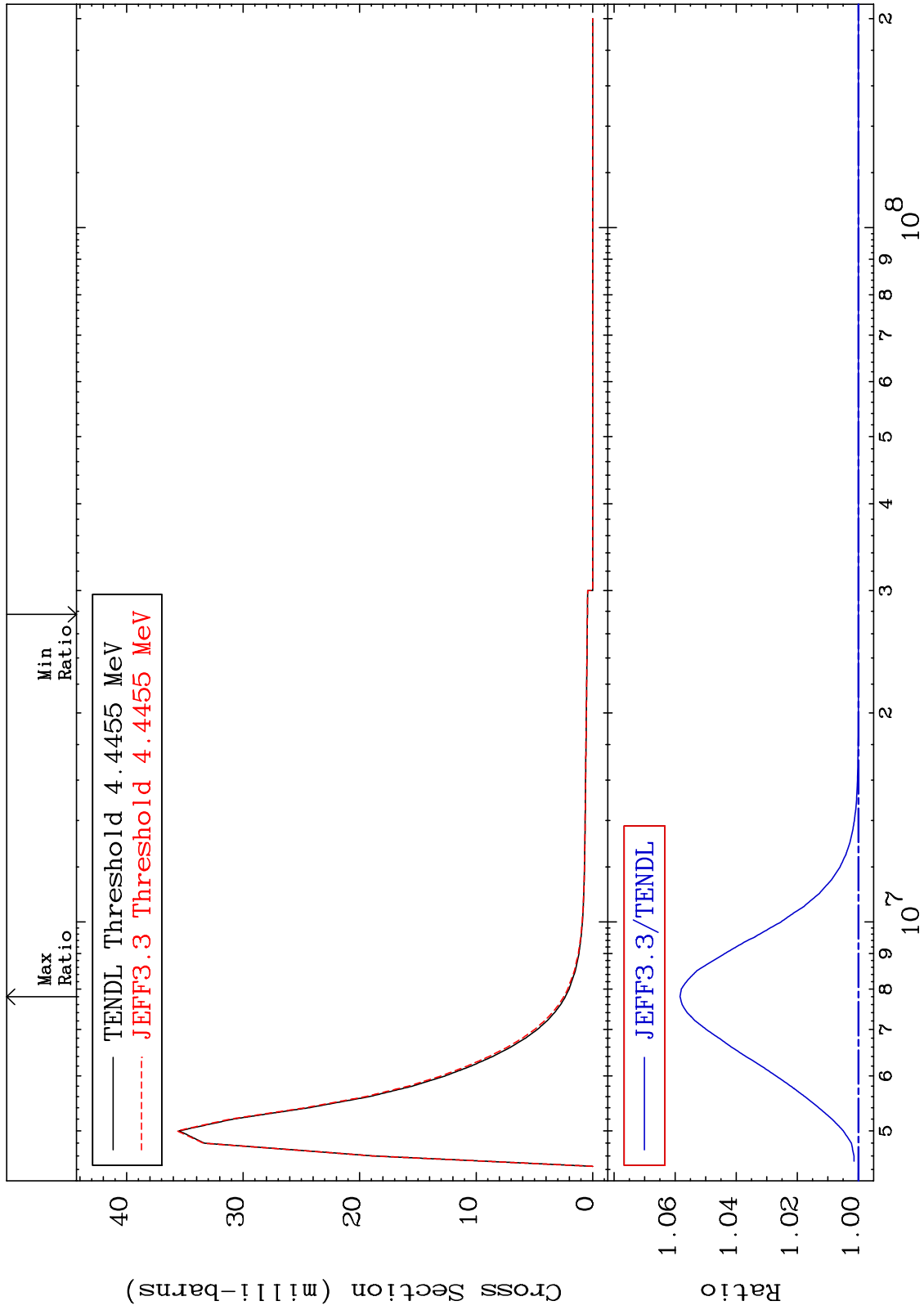
MAT 3449 MT= 77 (n,n') Level Cross Section 34-Se-82 To 5.748 %



34-Se-82

Incident Energy (eV)

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



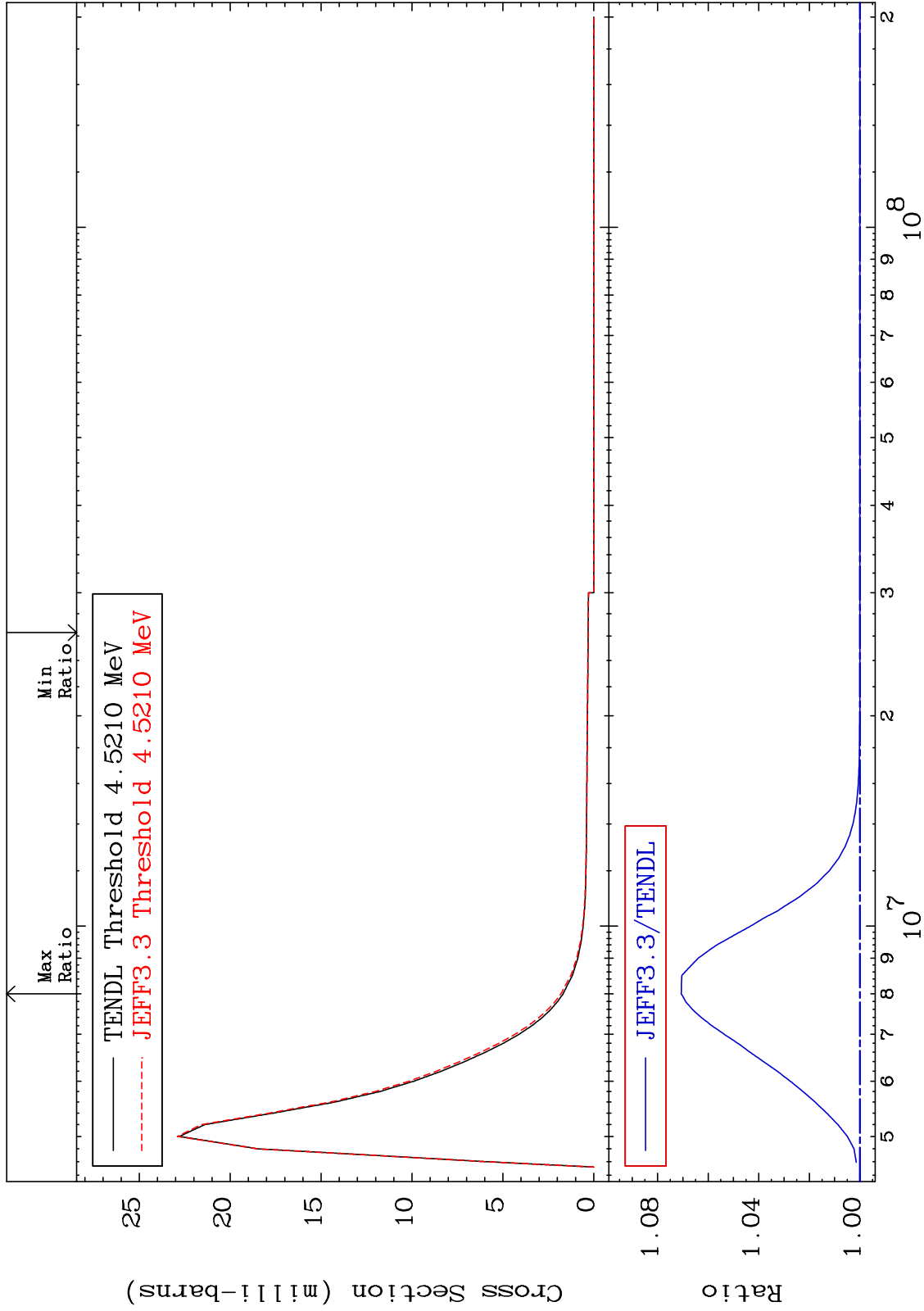
34-Se-82

Incident Energy (eV)

MAT 3449

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

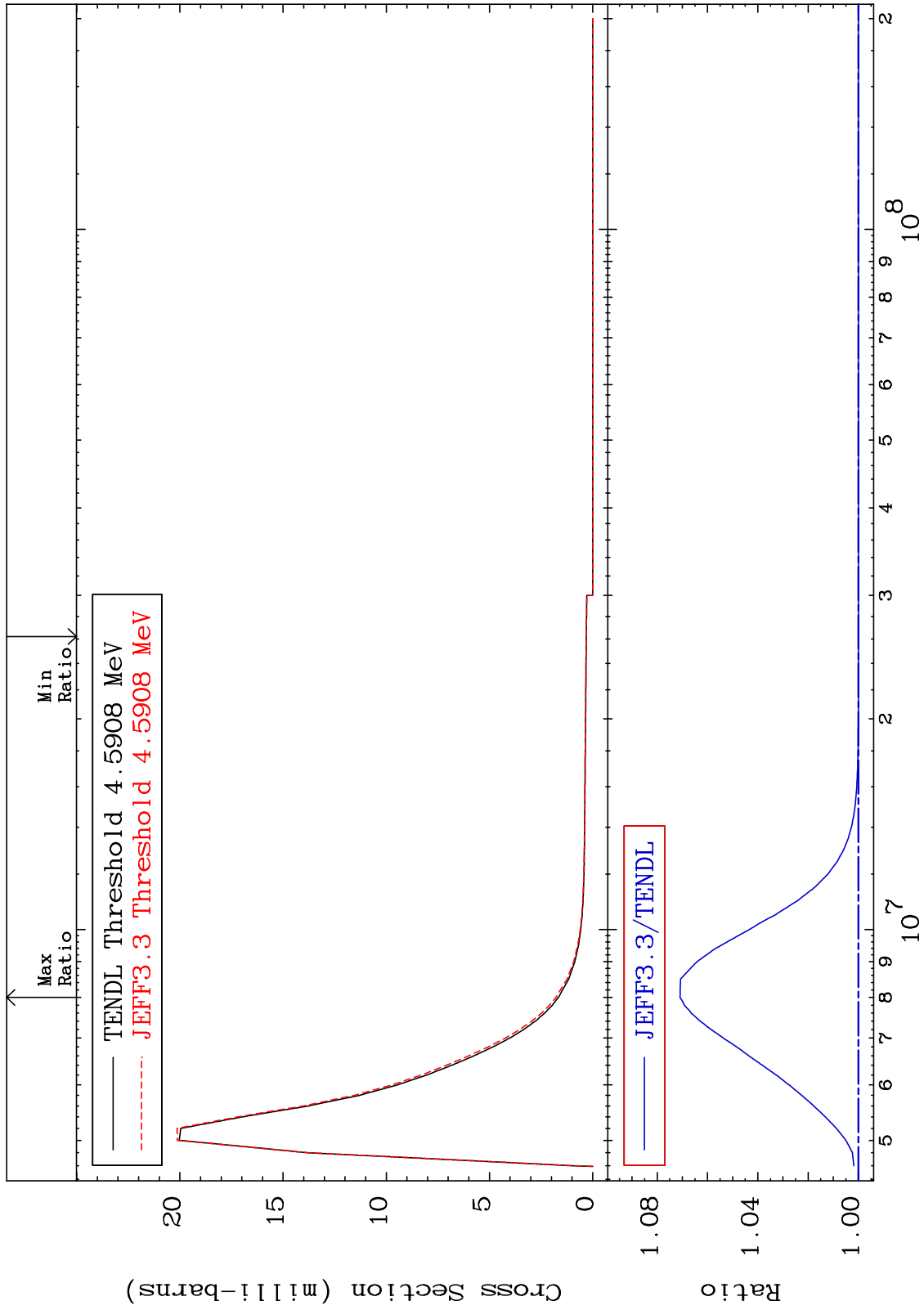
34-Se-82
0.000 To 7.065 %



46

34-Se-82

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

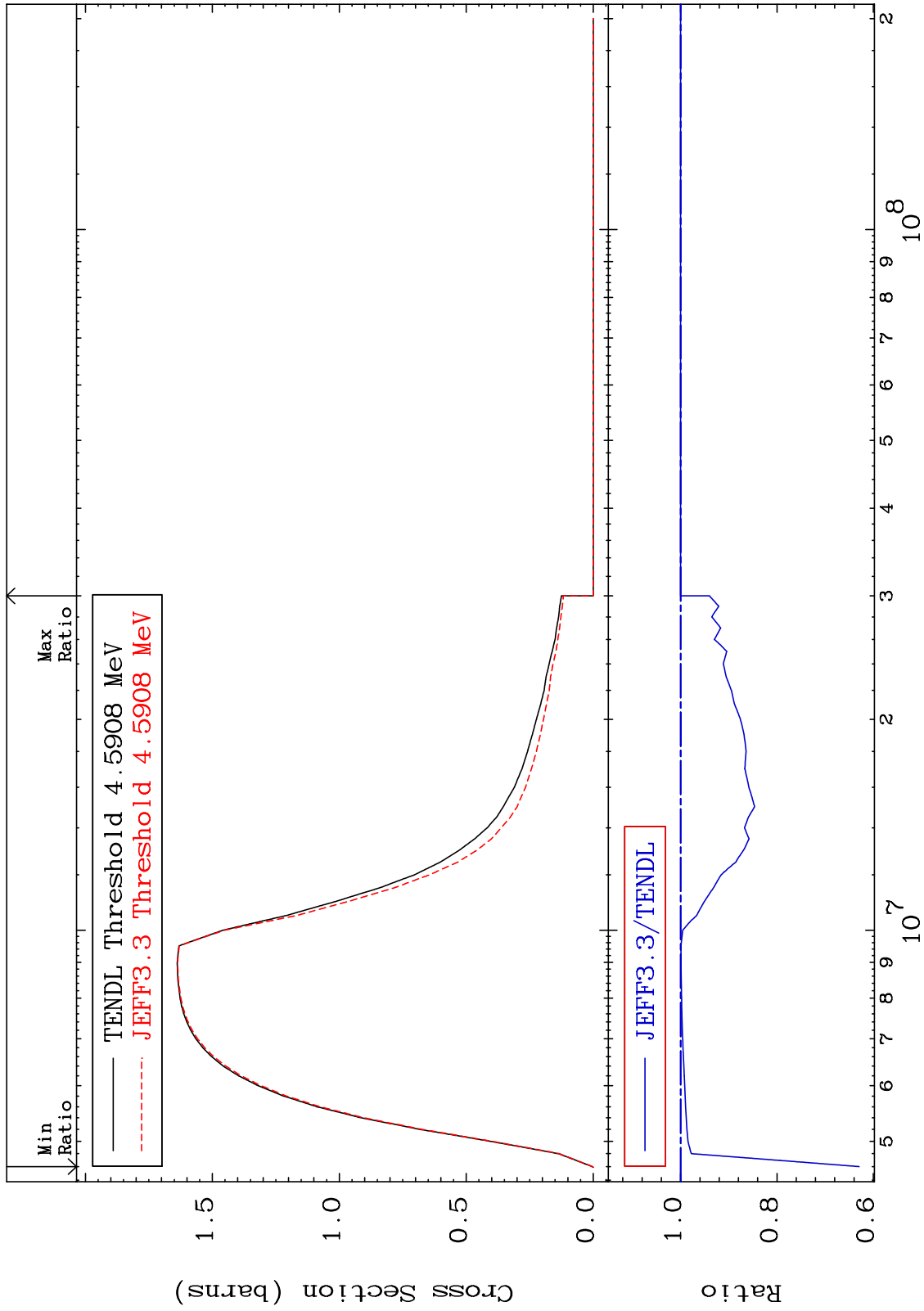


47 34-Se-82

MAT 3449

(n, n') Continuum
Cross Section

34-Se-82
-37.06 To 0.000 %



48

34-Se-82

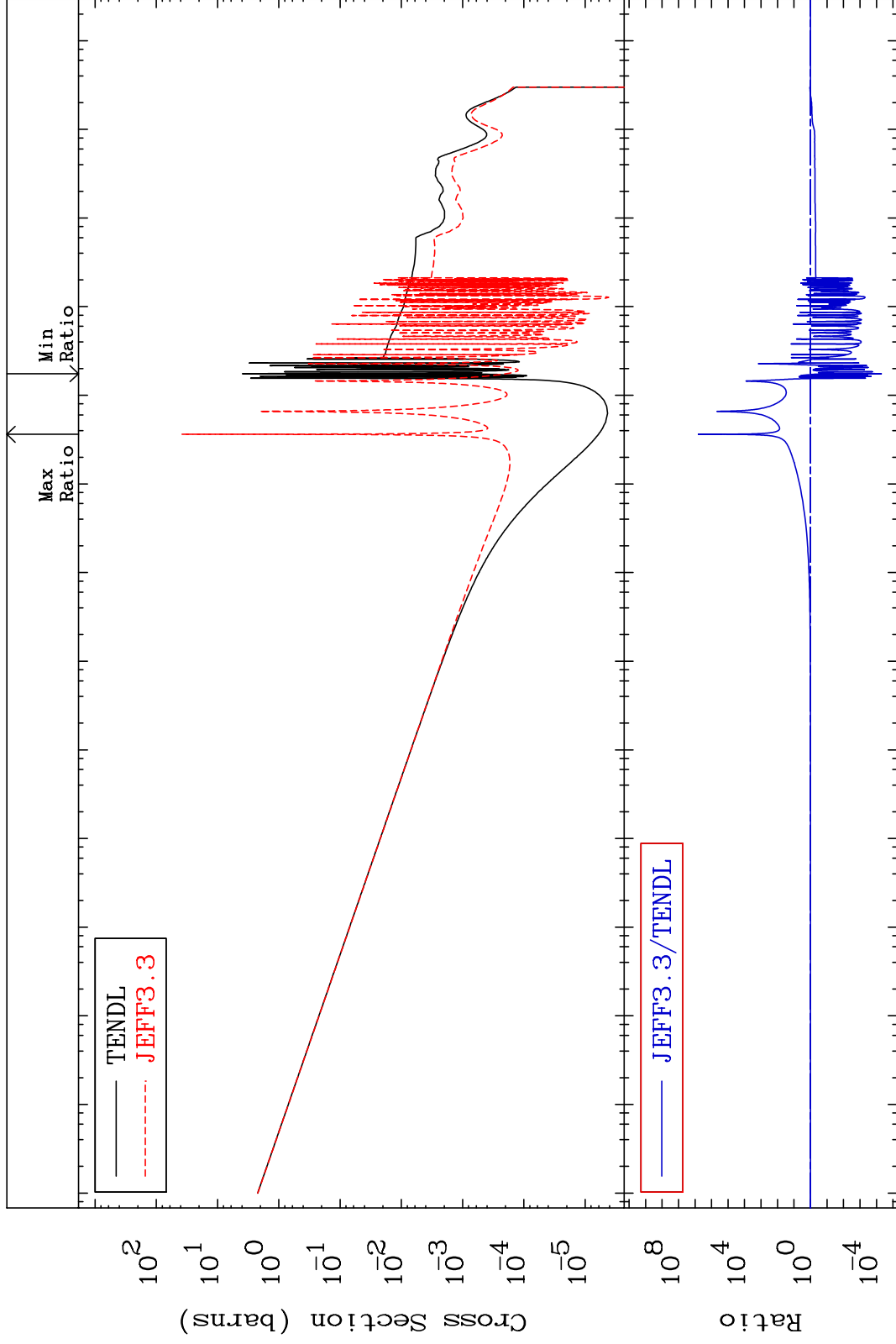
MAT 3449

³⁴Se-82

(n, γ)

Cross Section

-100.0 To 9999. %



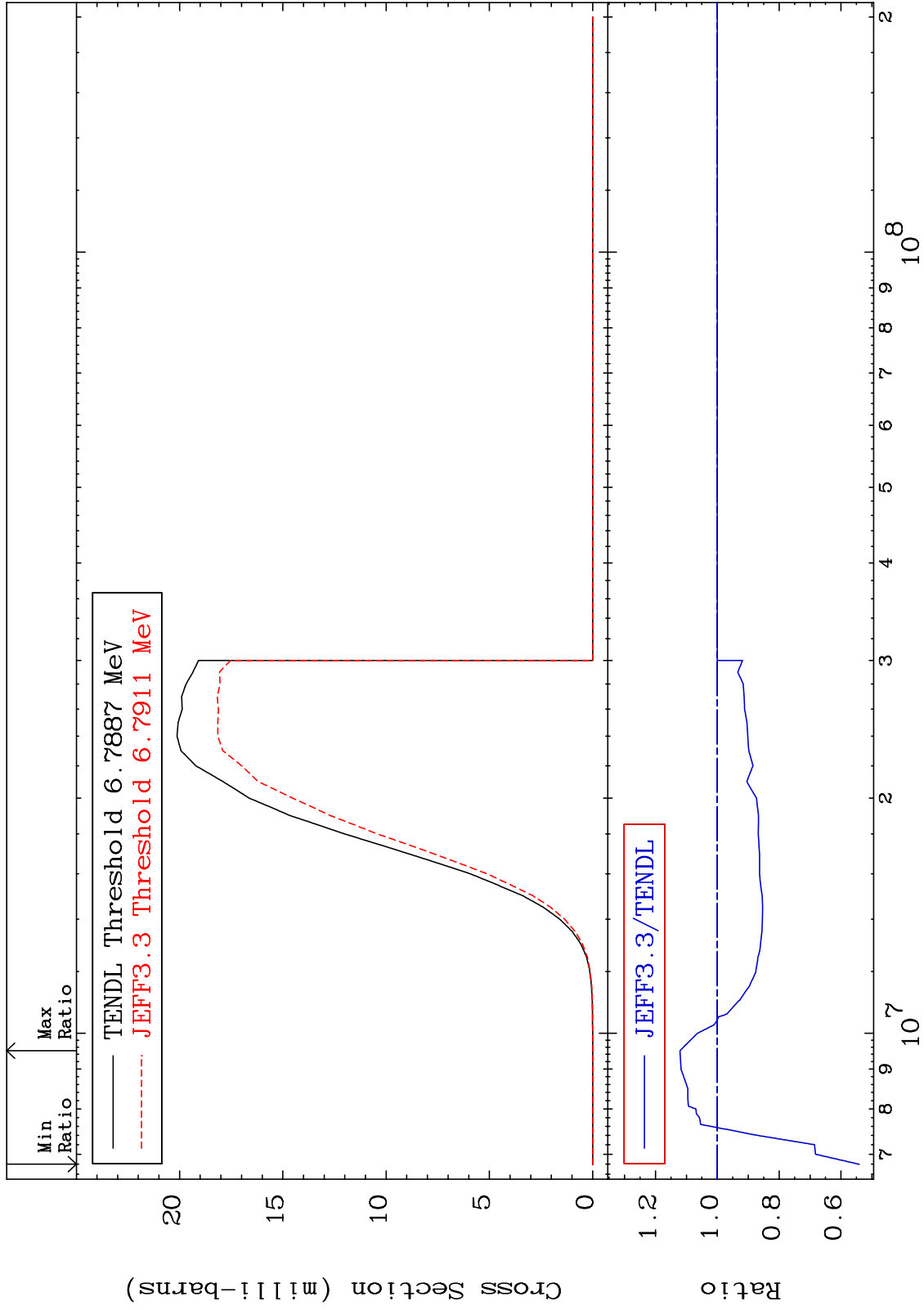
MAT 3449

(n,p)

³⁴Se-82

Cross Section

-45.64 To 12.06 %



50

Incident Energy (eV)

³⁴Se-82

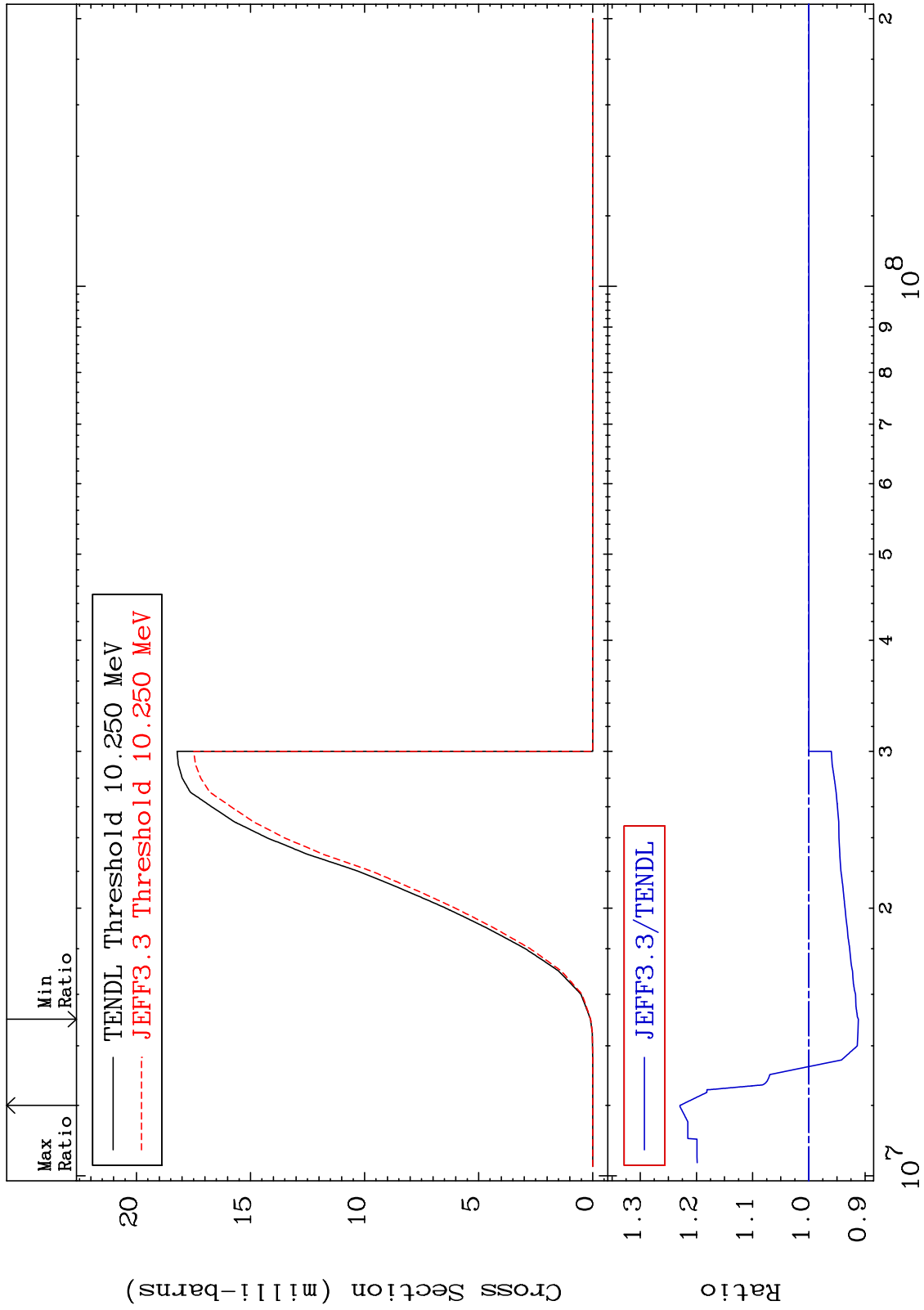
MAT 3449

(n, d)

34-Se-82

Cross Section

-8.814 To 22.92 %



51

Incident Energy (eV)

34-Se-82

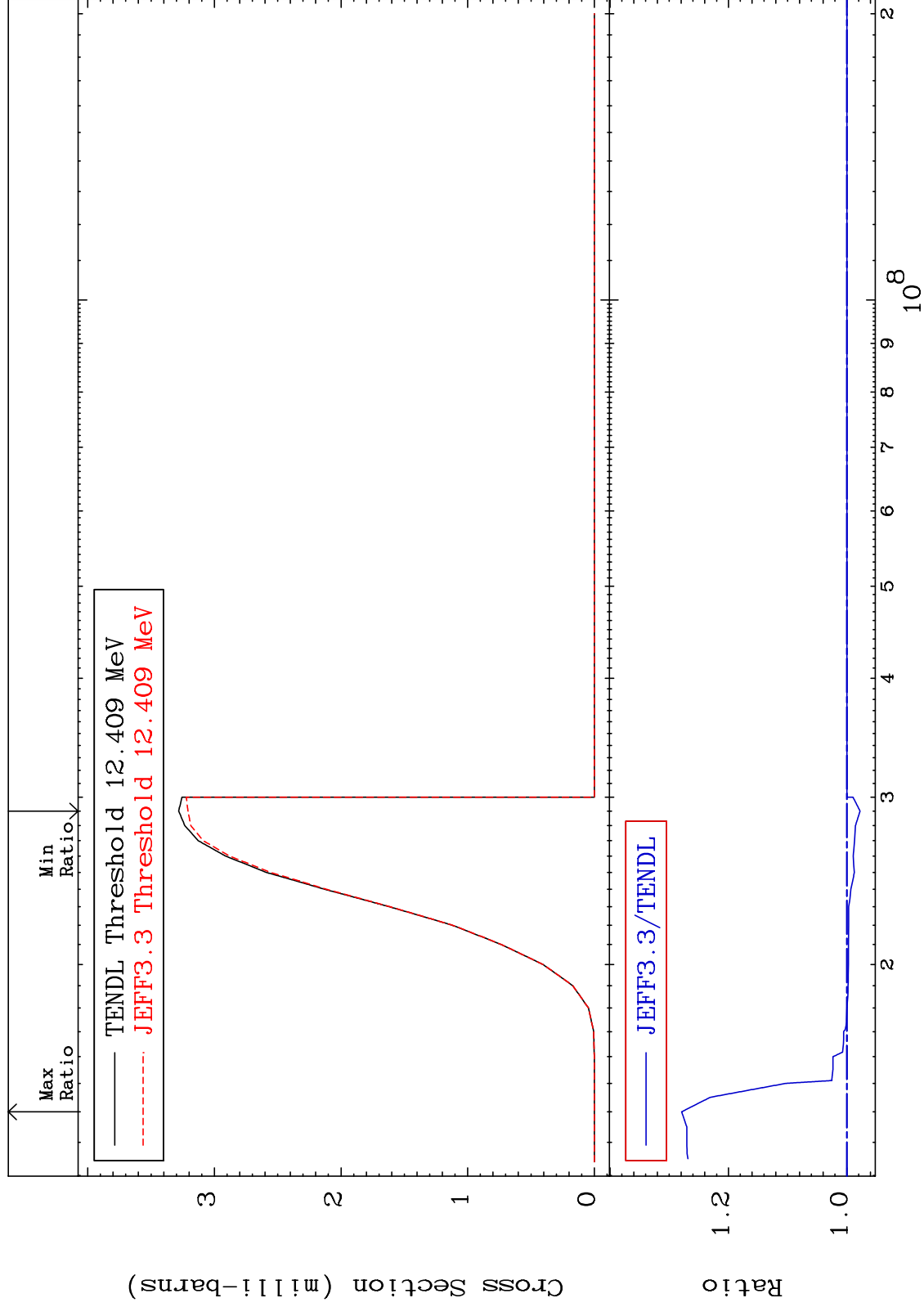
MAT 3449

(n, t)

34-Se-82

Cross Section

-2.230 To 27.91 %



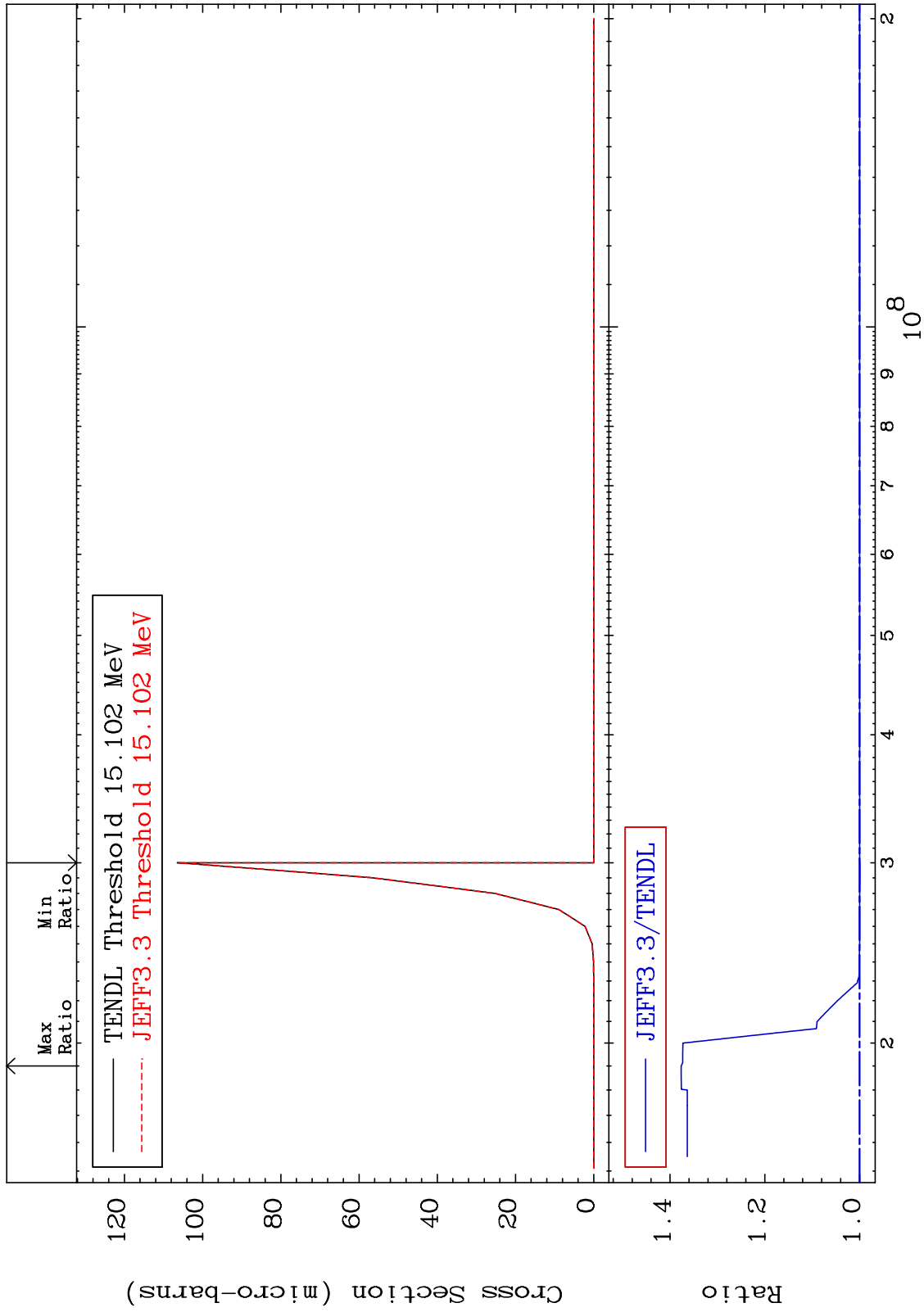
MAT 3449

(n, He-3)

34-Se-82

Cross Section

-0.075 To 37.64 %



53

Incident Energy (eV)

34-Se-82

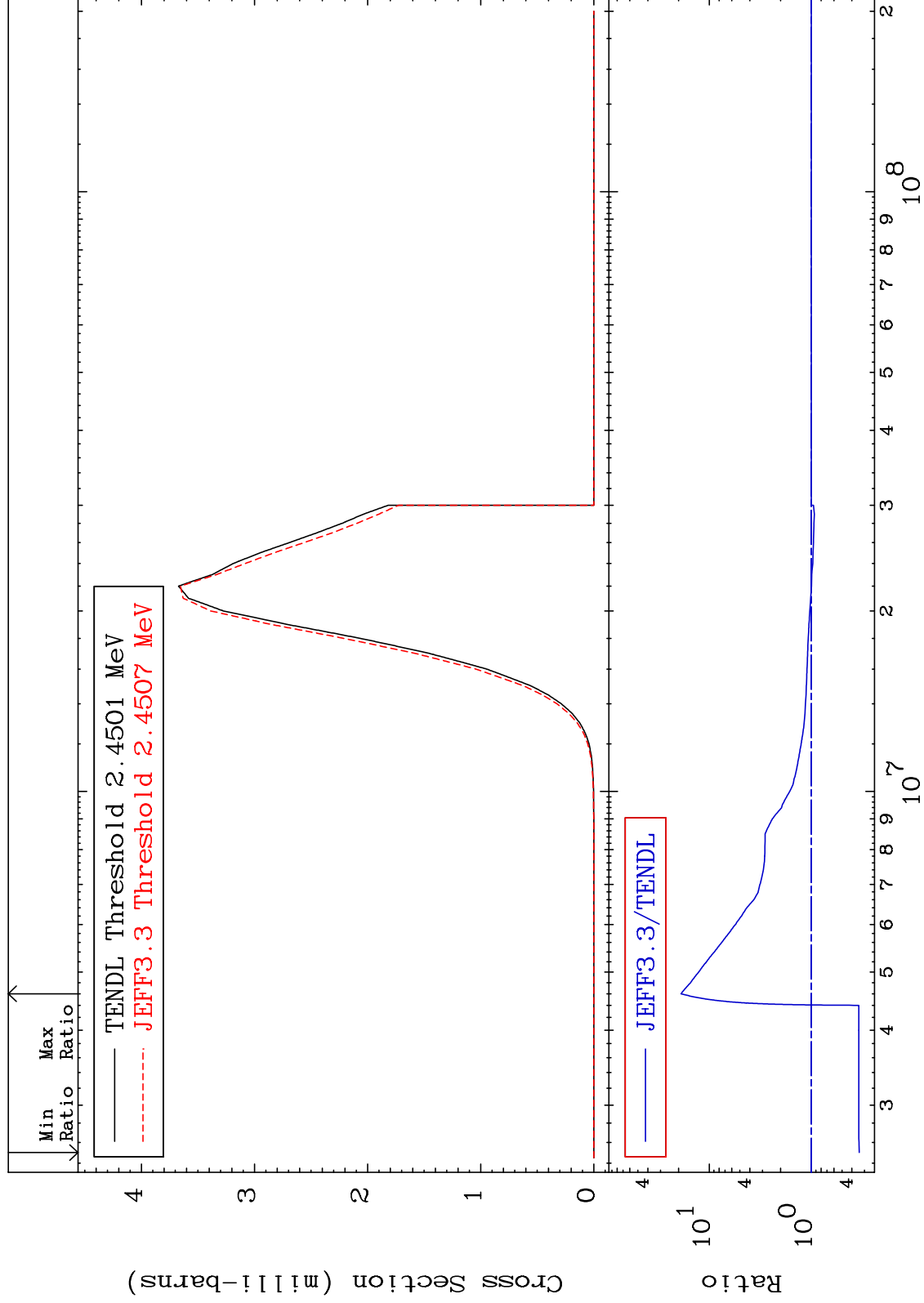
MAT 3449

(n, α)

³⁴Se-82

Cross Section

-66.21 To 1789. %



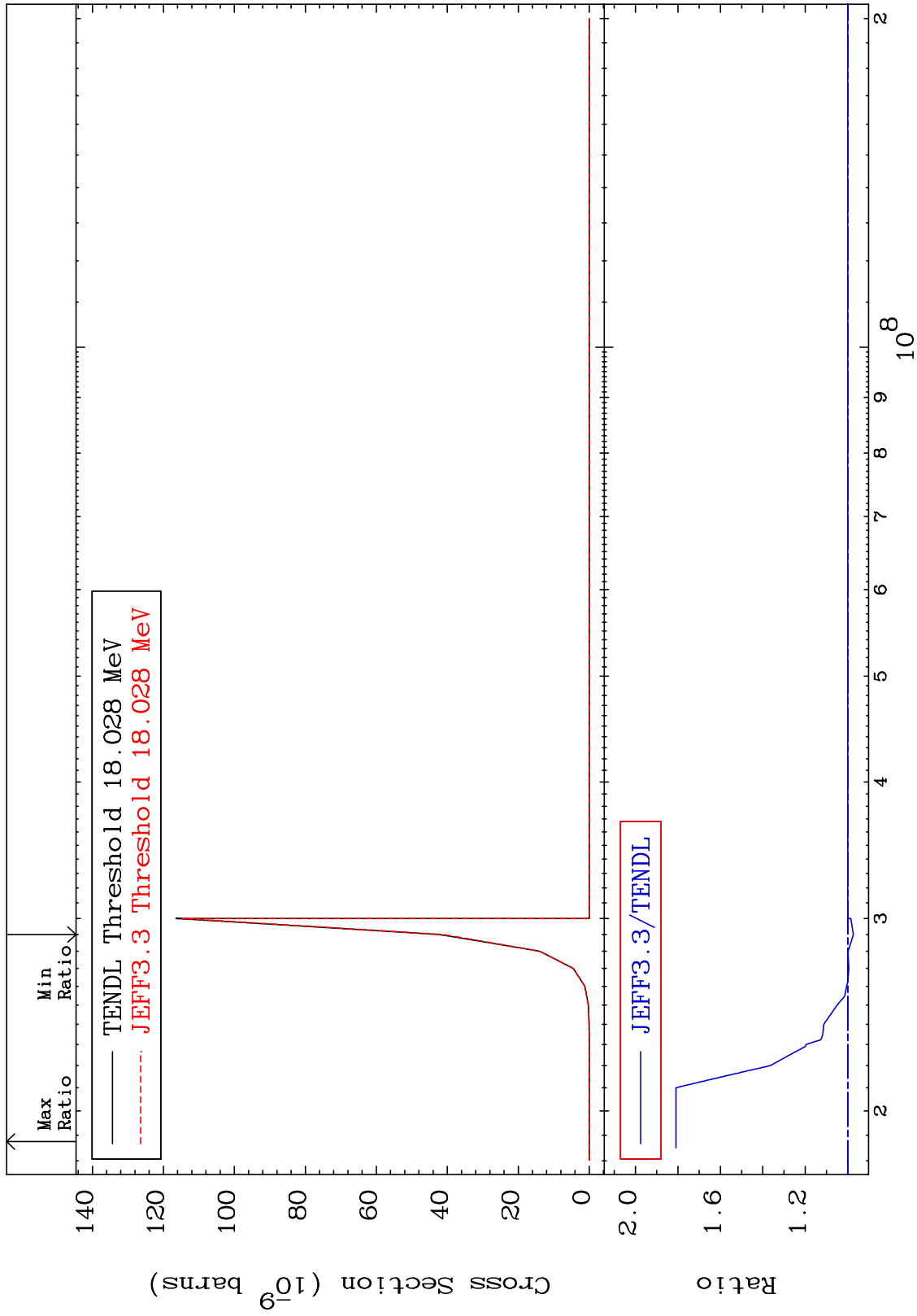
MAT 3449

(n,2p)

³⁴Se-82

Cross Section

-2.681 To 80.89 %



55

Incident Energy (eV)

³⁴Se-82

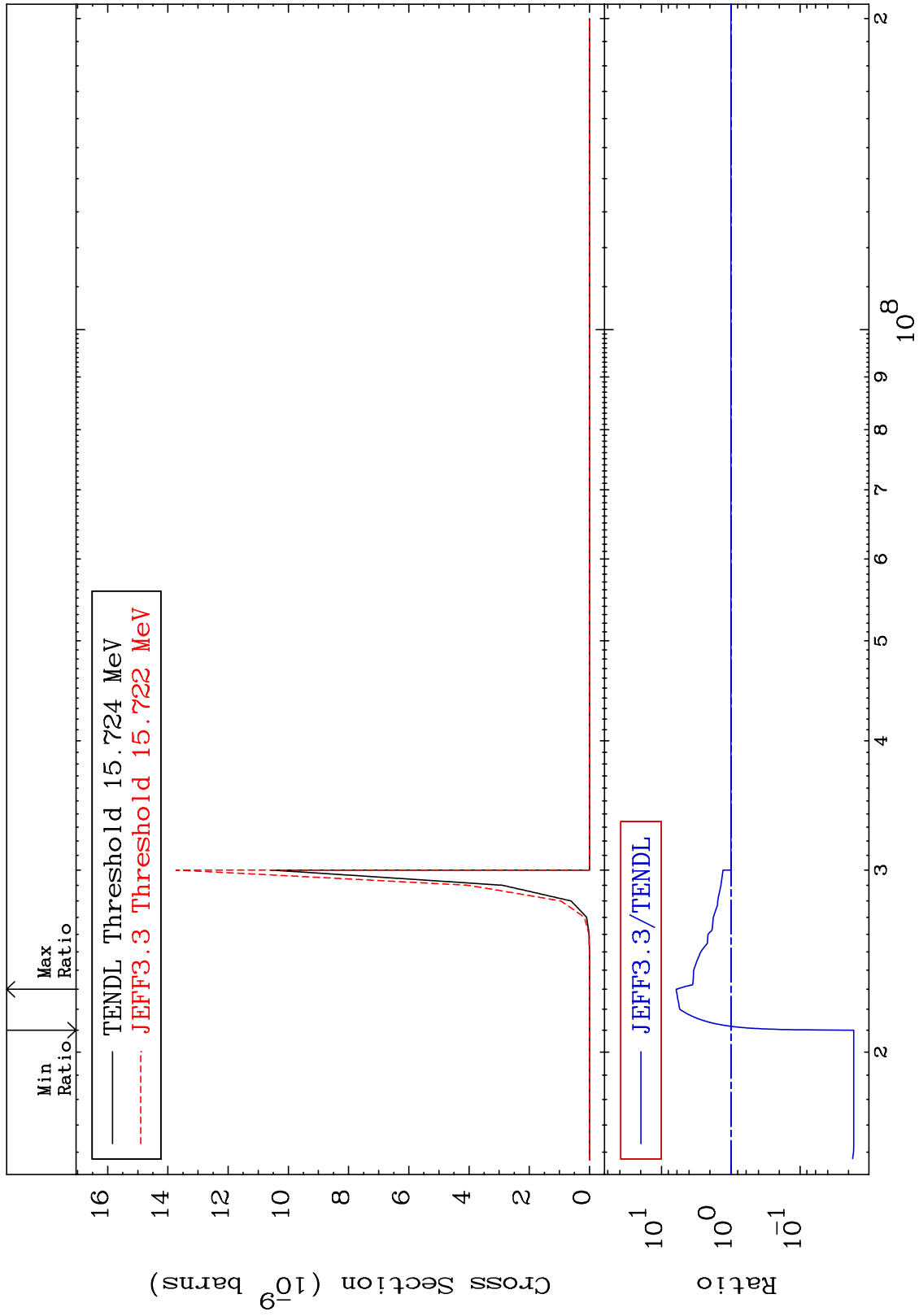
MAT 3449

(n,p) α

34-Se-82

Cross Section

-98.32 To 512.3 %



56

Incident Energy (eV)

34-Se-82

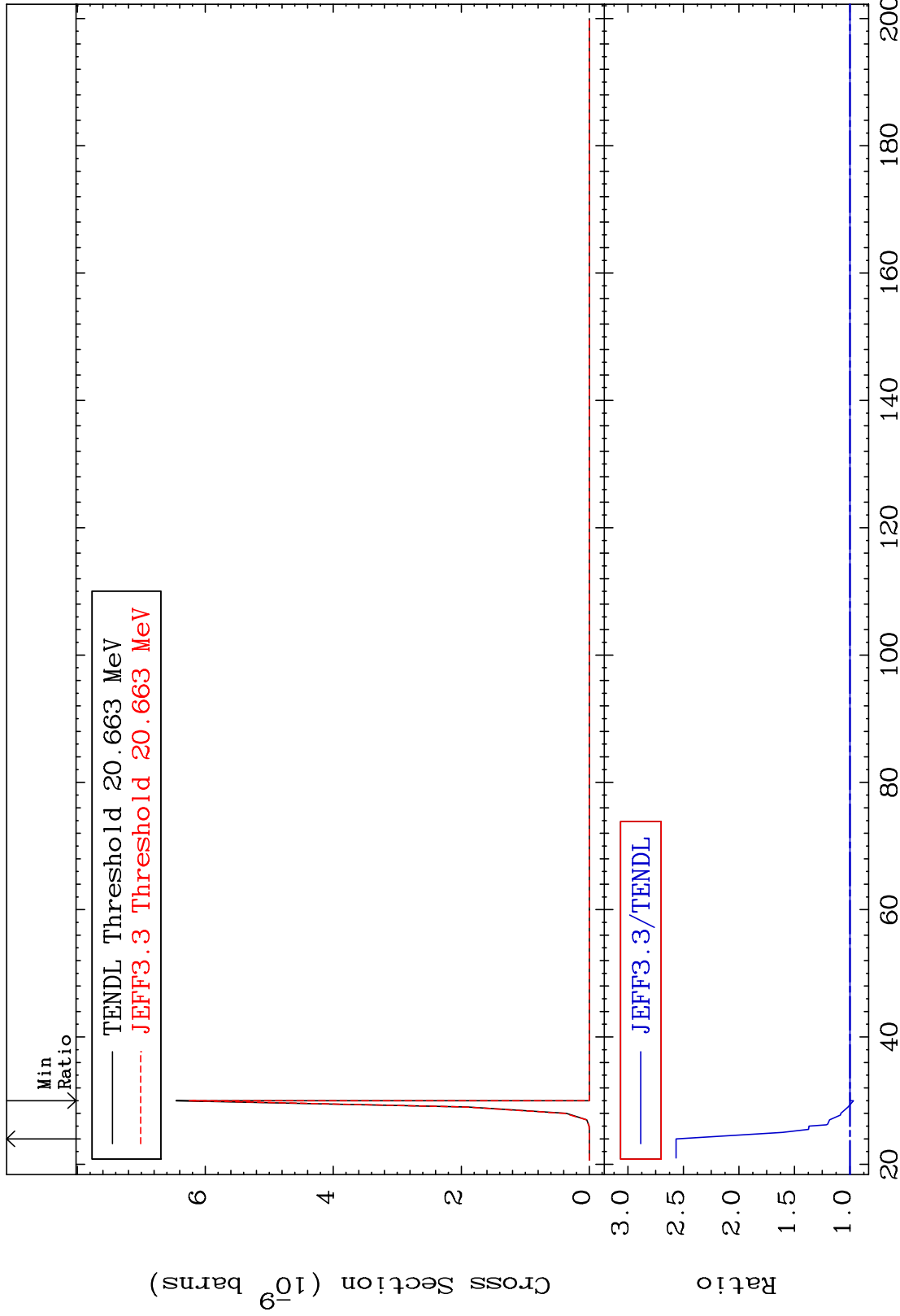
MAT 3449

(n,p) d

³⁴Se-82

Cross Section

-3.094 To 156.6 %



57

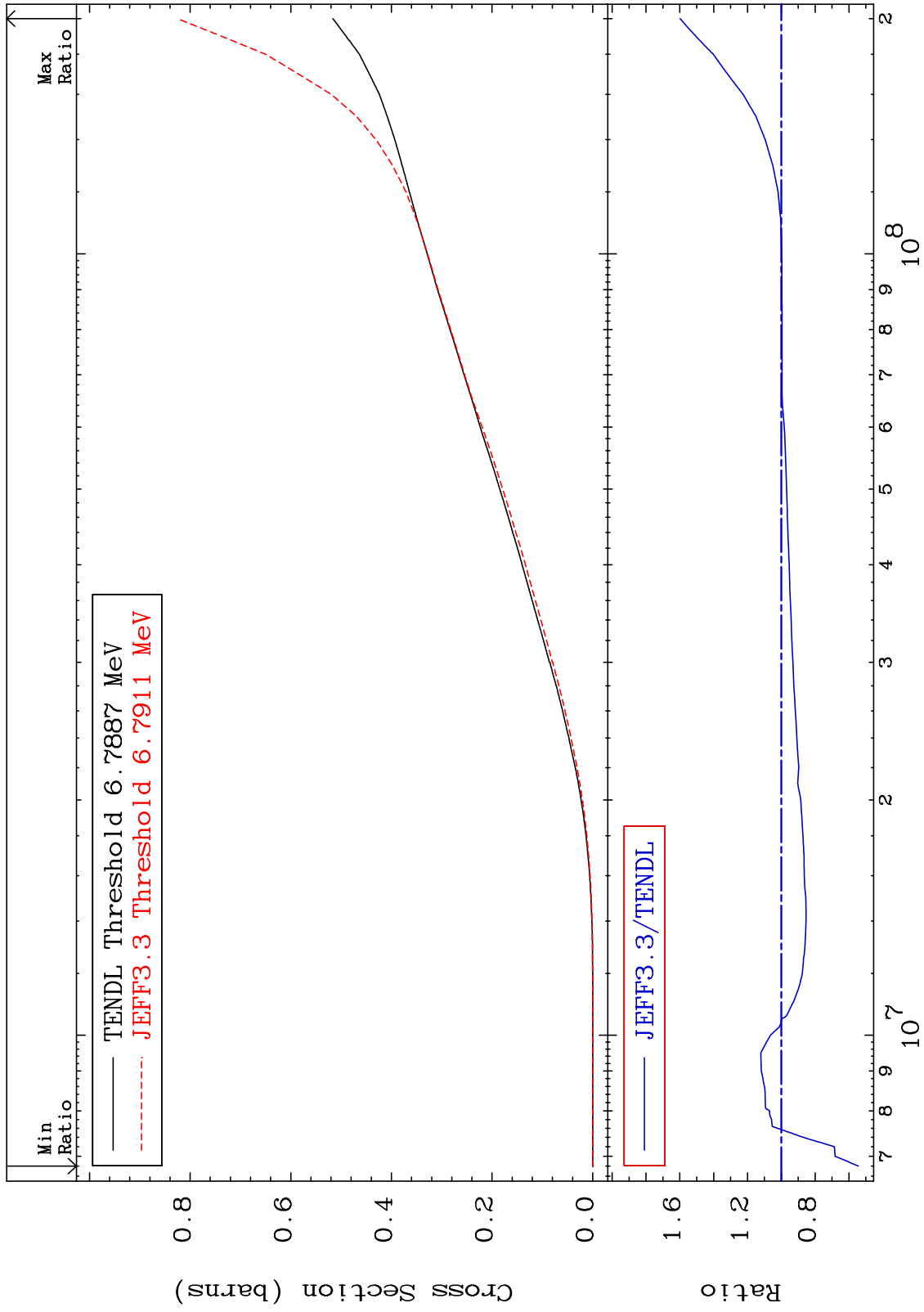
Incident Energy (MeV)

³⁴Se-82

MAT 3449

Hydrogen Production
Cross Section

34-Se-82
-45.64 To 59.89 %



58

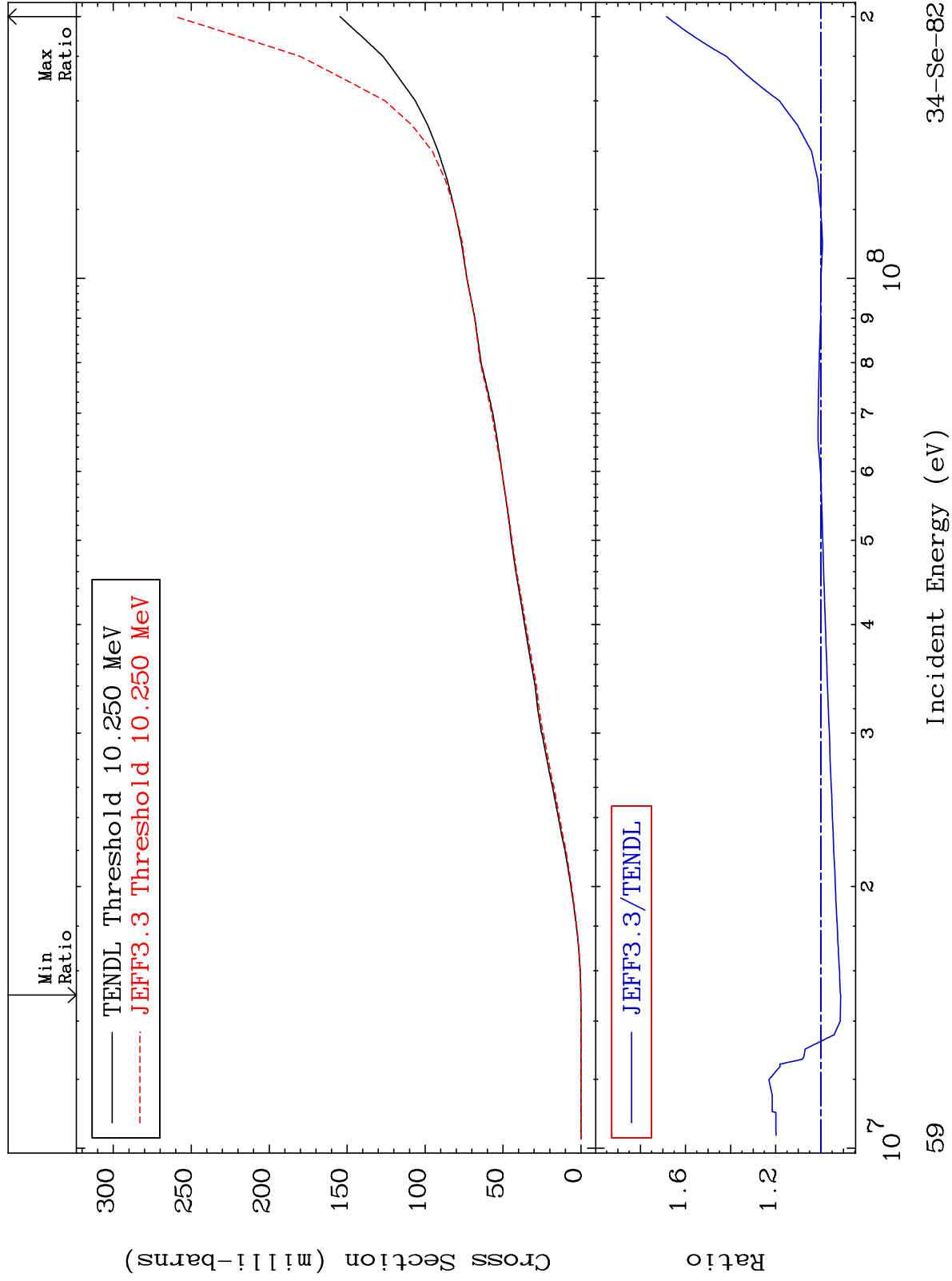
Incident Energy (eV)

34-Se-82

MAT 3449

Deuterium Production
Cross Section

34-Se-82
-8.814 To 68.49 %



59

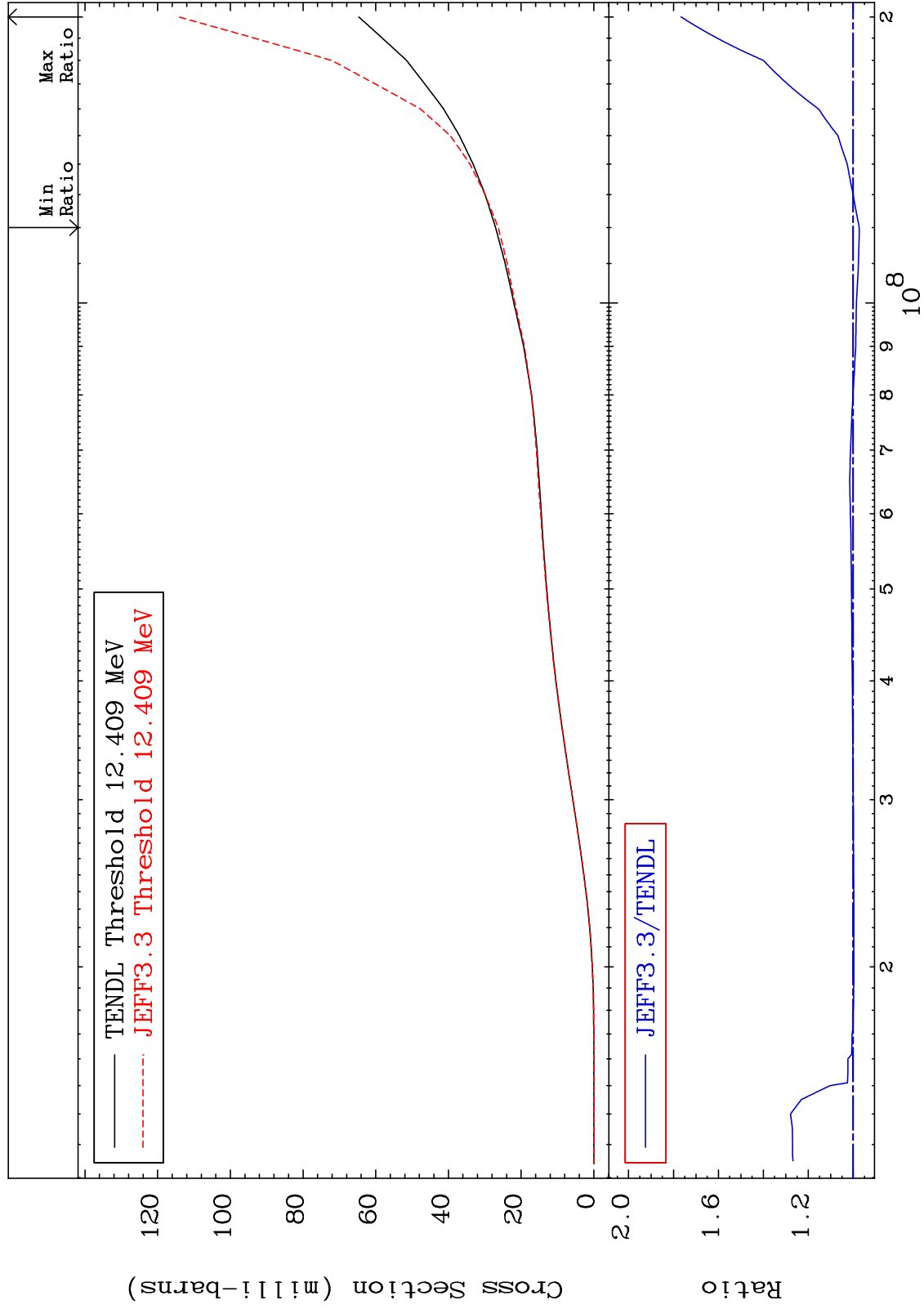
Incident Energy (eV)

34-Se-82

MAT 3449

Tritium Production
Cross Section

34-Se-82
-2.712 To 76.63 %



60

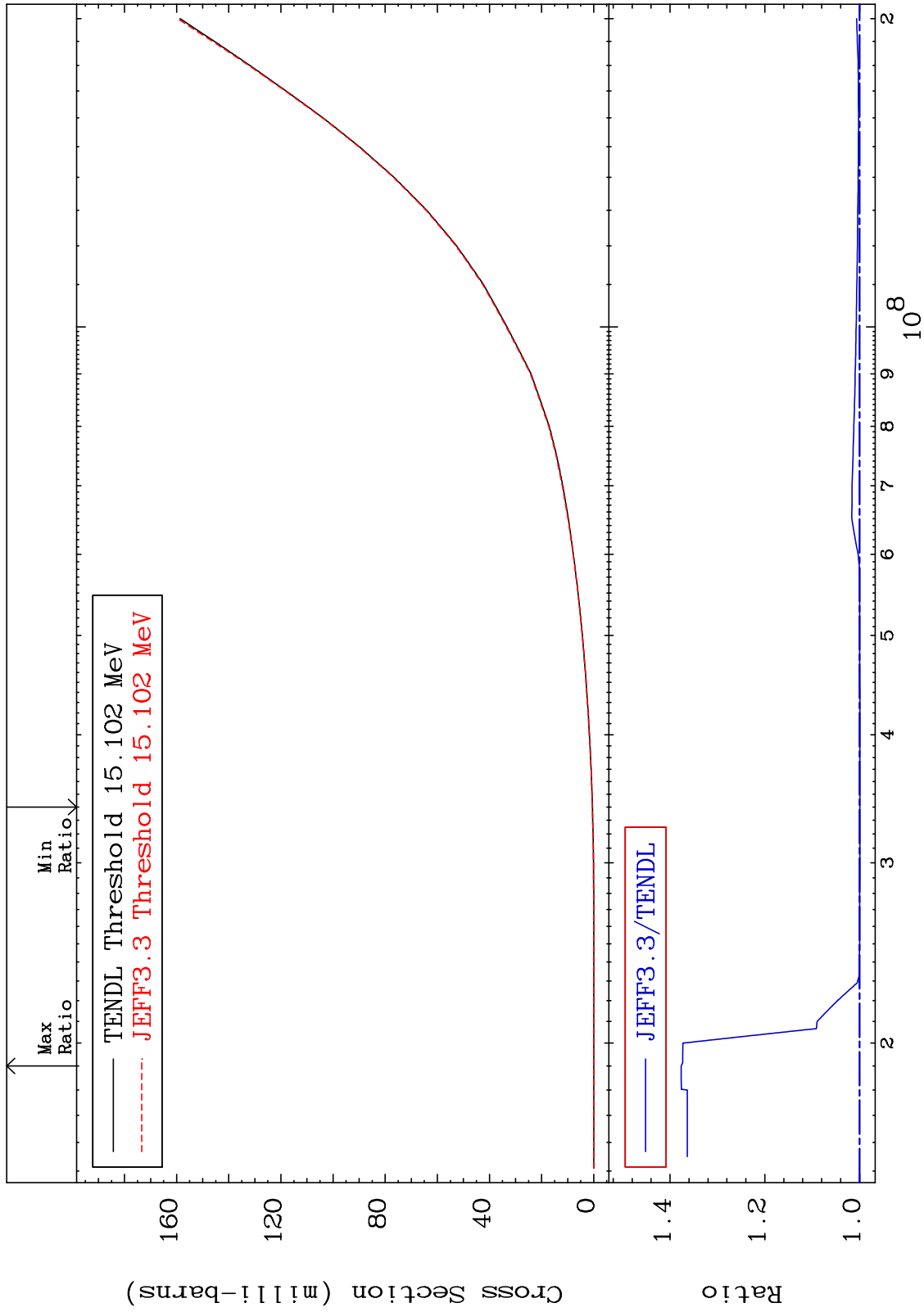
Incident Energy (eV)

34-Se-82

MAT 3449

He-3 Production
Cross Section

³⁴Se-82
-0.076 To 37.64 %



61

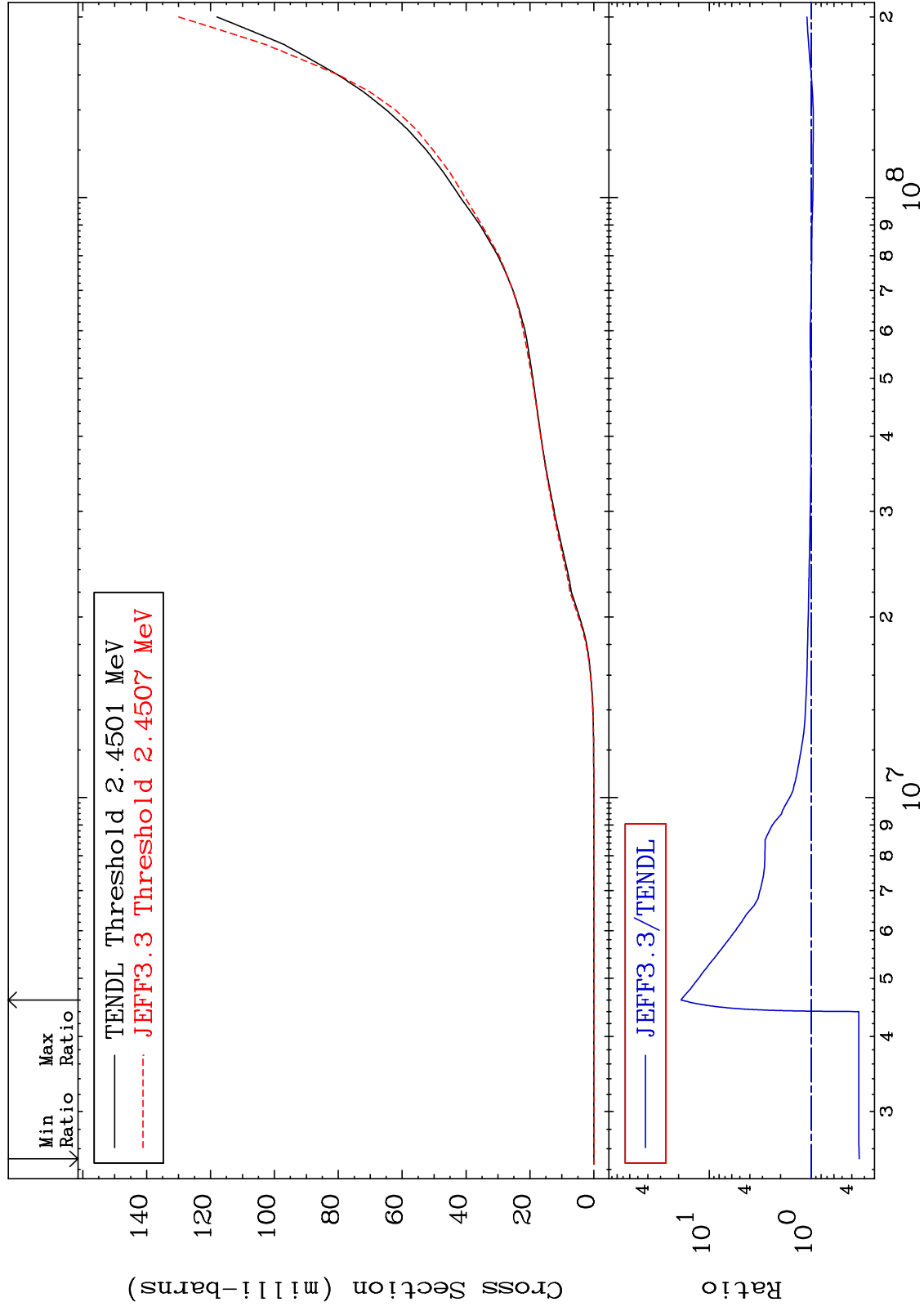
Incident Energy (eV)

³⁴Se-82

MAT 3449

He-4 Production
Cross Section

³⁴Se-82
-66.21 To 1789. %



62

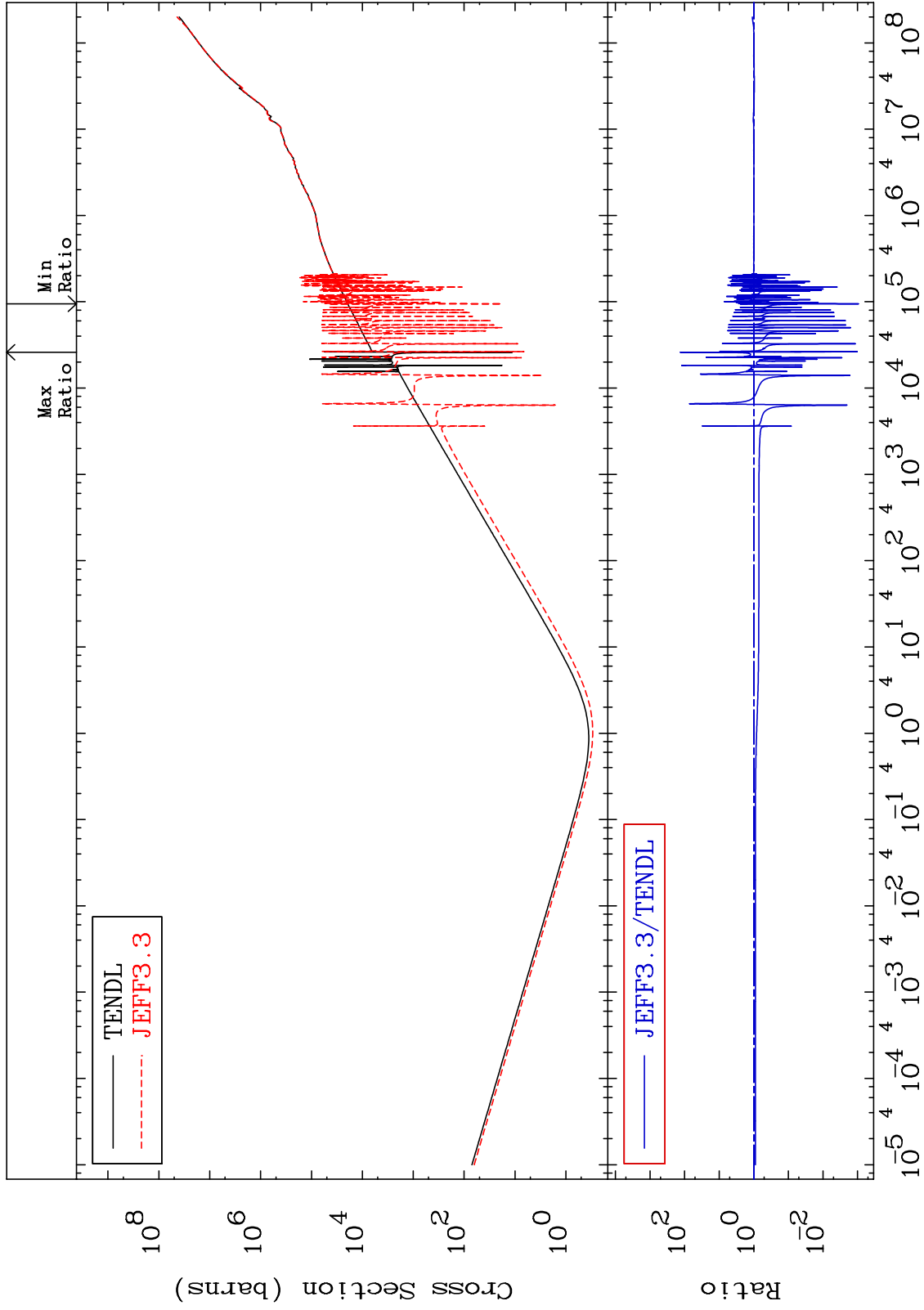
Incident Energy (eV)

³⁴Se-82

MAT 3449

Kerma total (eV-barns)
Cross Section

34-Se-82
-99.91 To 9999. %



63

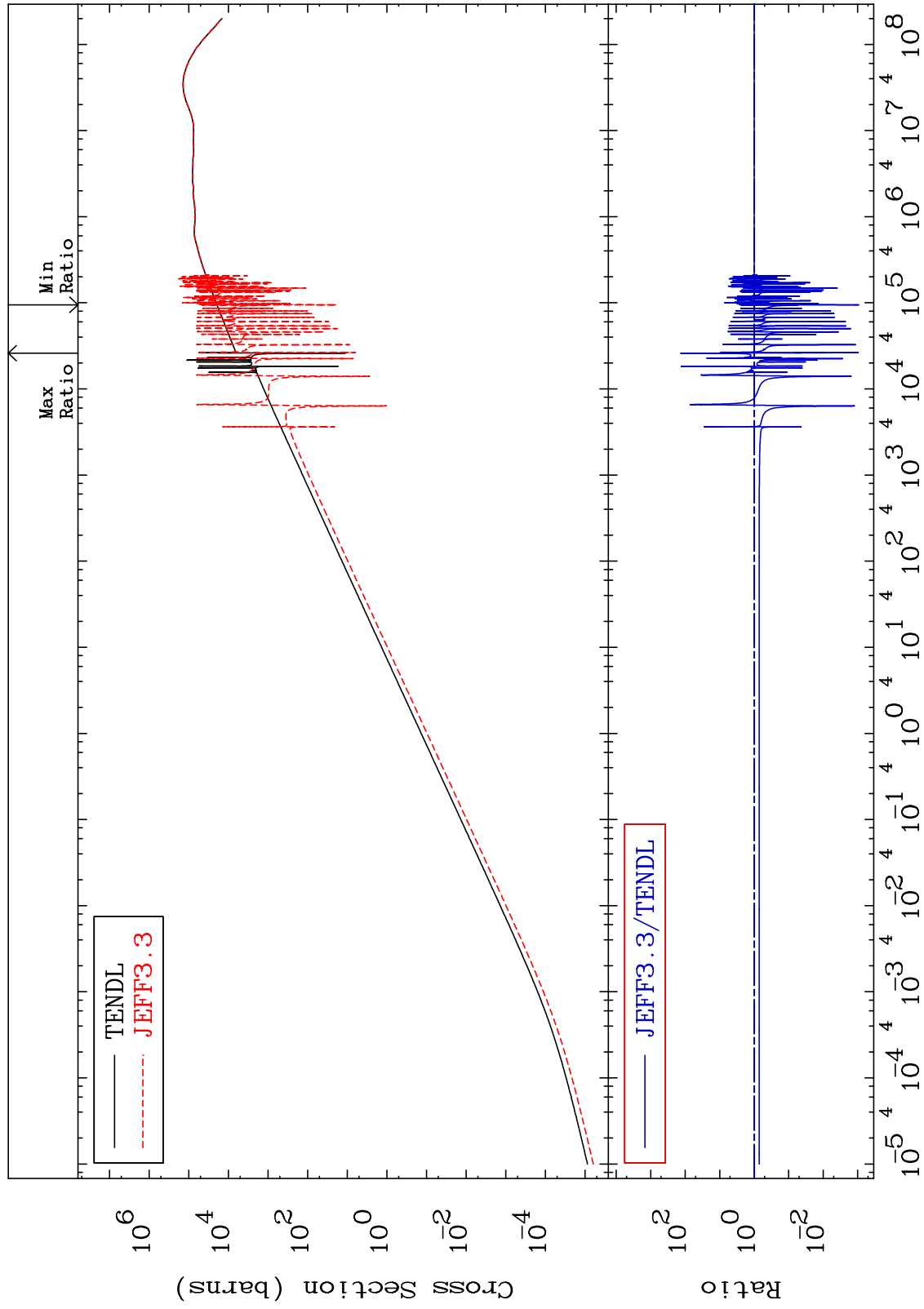
Incident Energy (eV)

34-Se-82

MAT 3449

Kerma elastic
Cross Section

34-Se-82
-99.91 To 9999. %



64

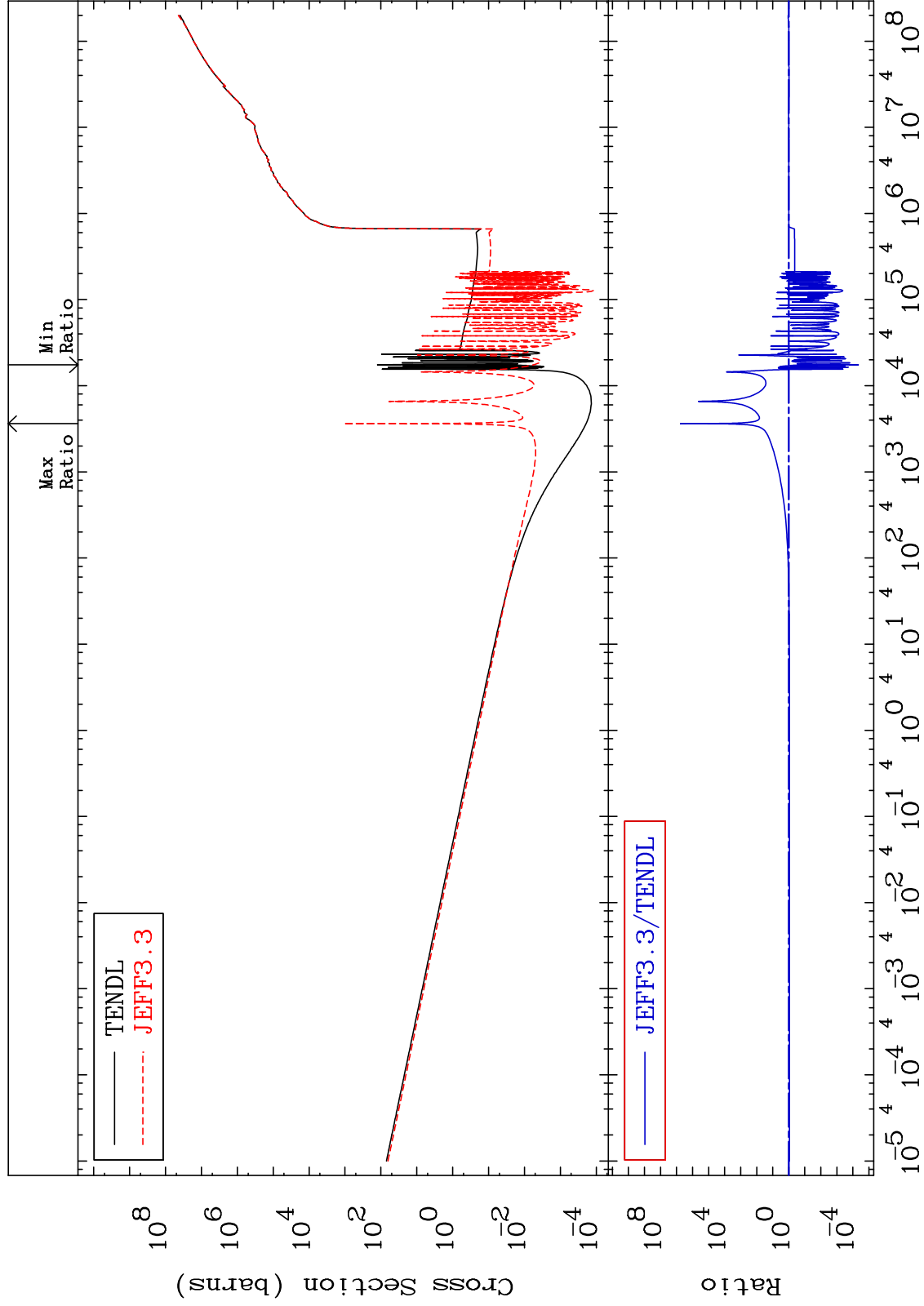
Incident Energy (eV)

34-Se-82

MAT 3449

Kerma non-elastic (all but mt2)
Cross Section

34-Se-82
-100.0 To 9999. %



65

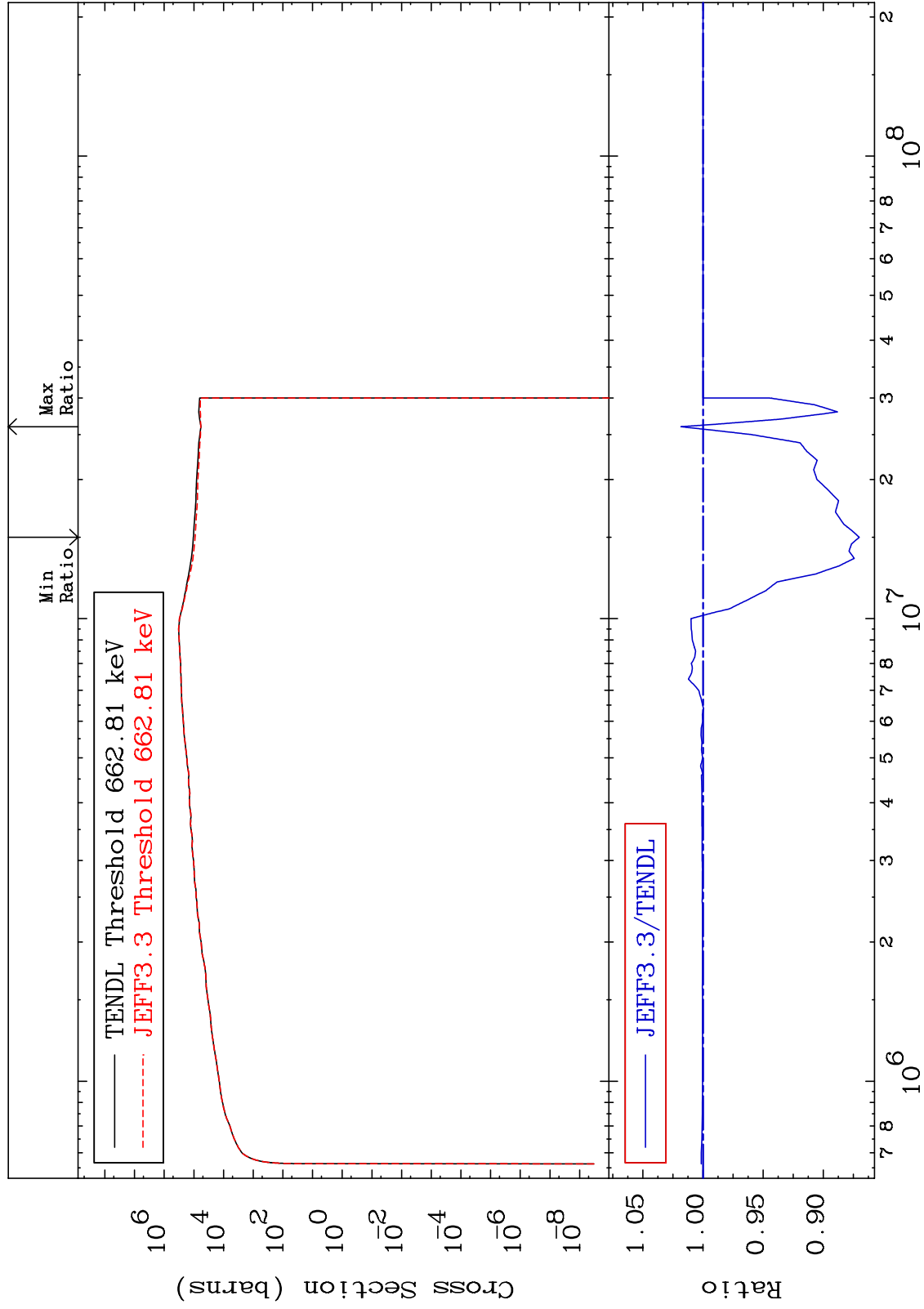
Incident Energy (eV)

34-Se-82

MAT 3449

Kerma inelastic (mt51-91)
Cross Section

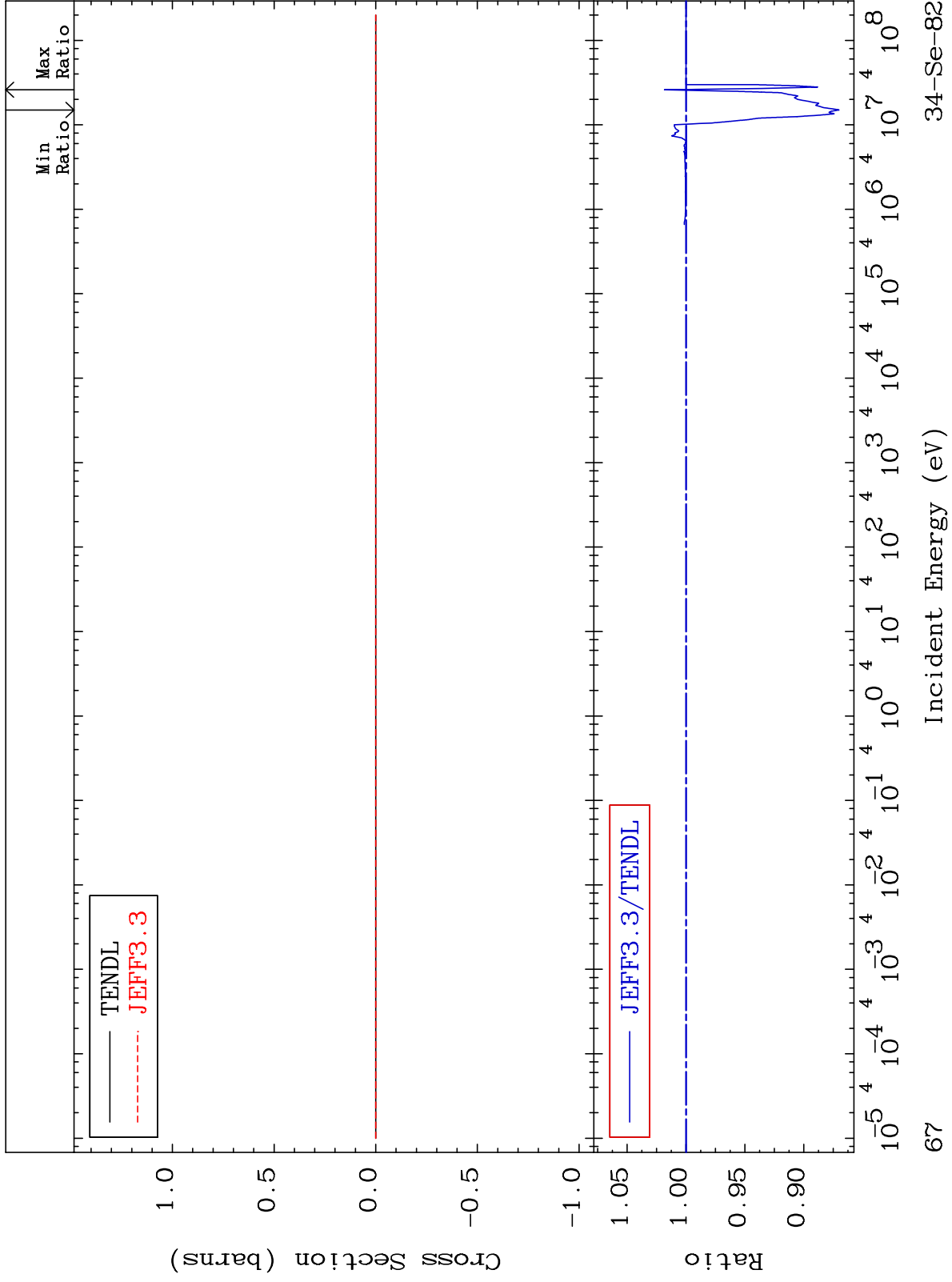
34-Se-82
-12.99 To 1.829 %



MAT 3449

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

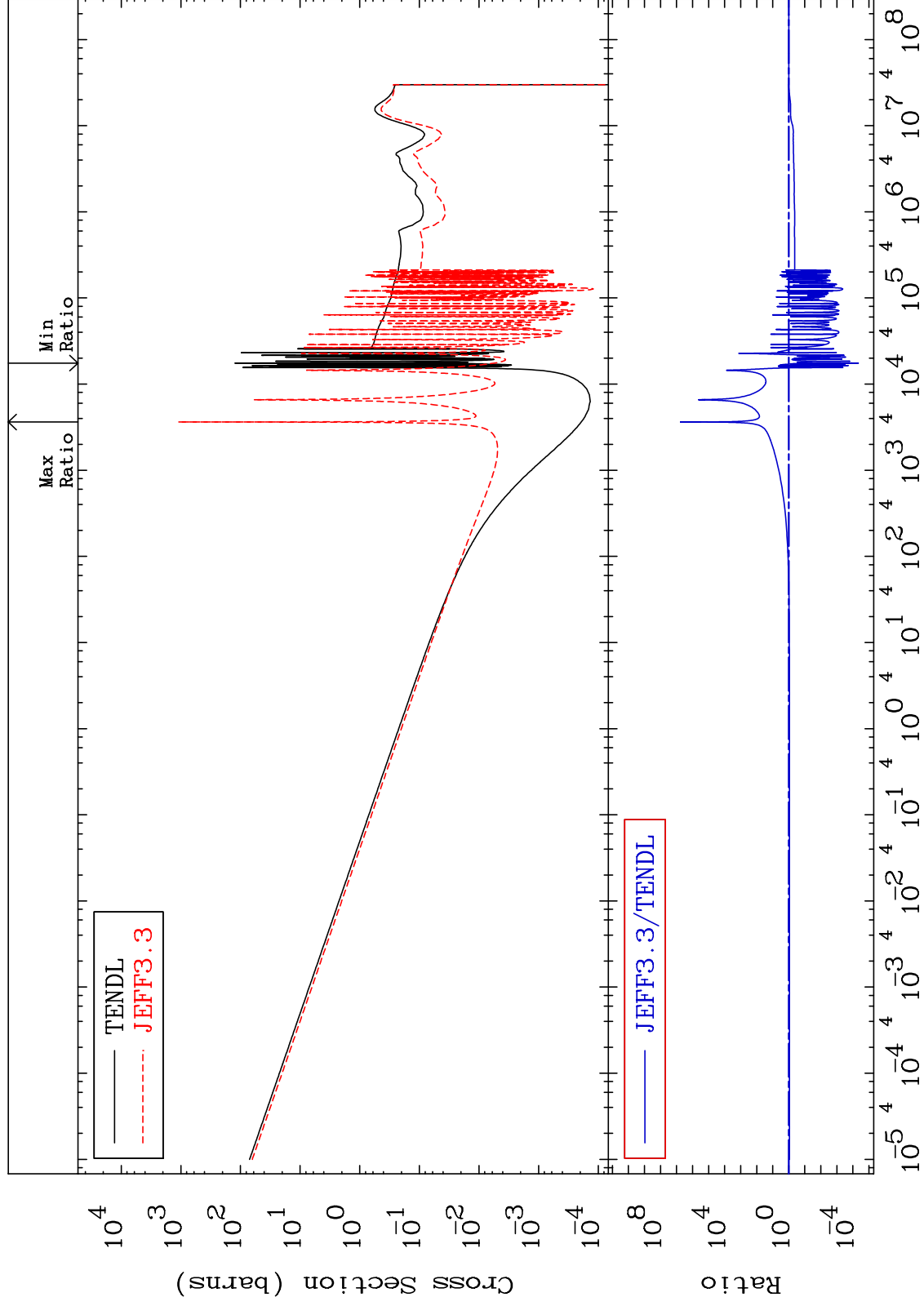
34-Se-82
-12.99 To 1.829 %



MAT 3449

Kerma capture (mt102)
Cross Section

34-Se-82
-100.0 To 9999. %



68

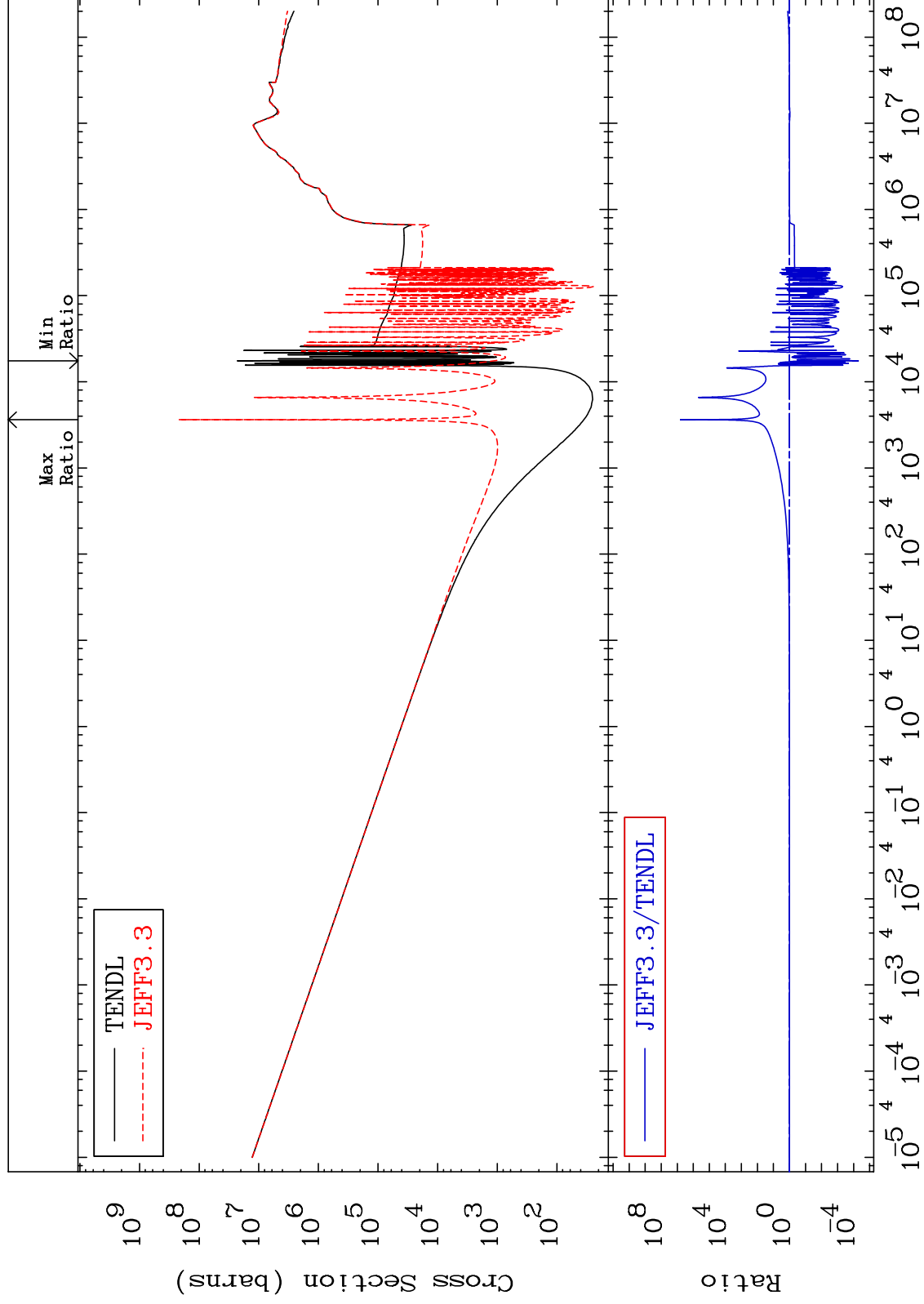
Incident Energy (eV)

34-Se-82

MAT 3449

Total photon (eV-barns)
Cross Section

34-Se-82
-100.0 To 9999. %



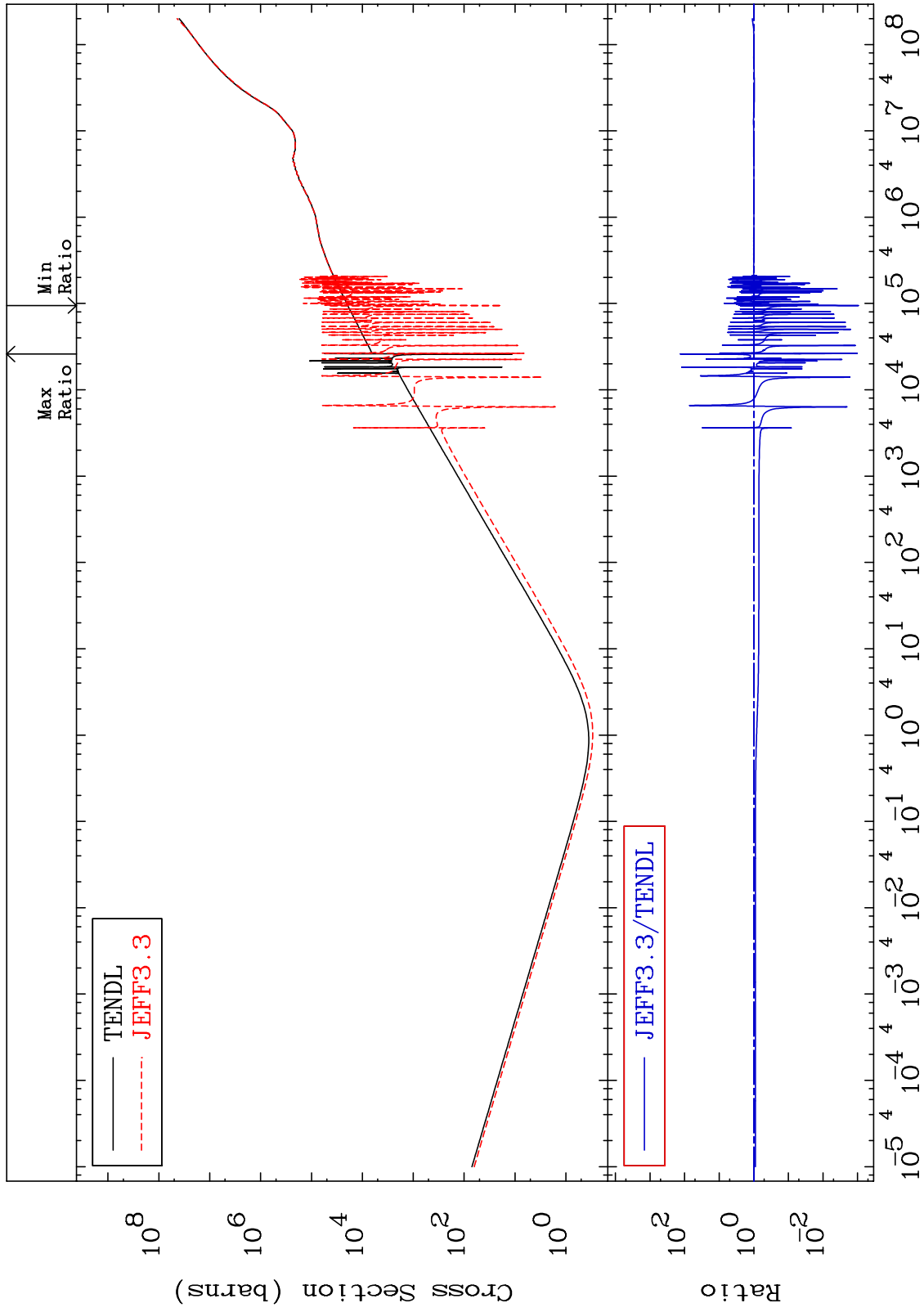
— TENDL
- - - JEFF3.3

— JEFF3.3/TENDL

MAT 3449

Total kinematic kerma (high limit)
Cross Section

34-Se-82
-99.91 To 9999. %



70

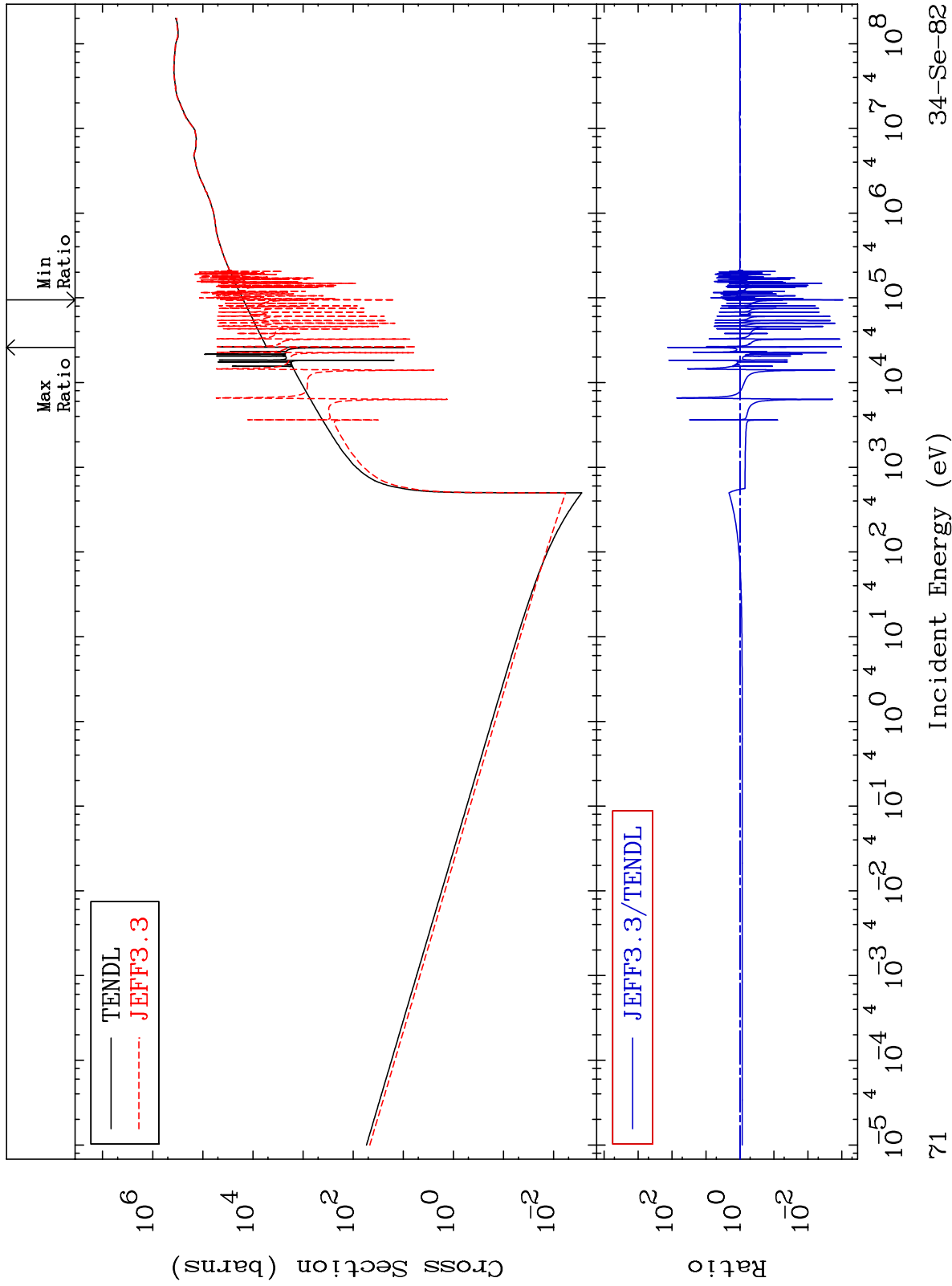
Incident Energy (eV)

34-Se-82

MAT 3449

Dpa total (eV-barns)
Cross Section

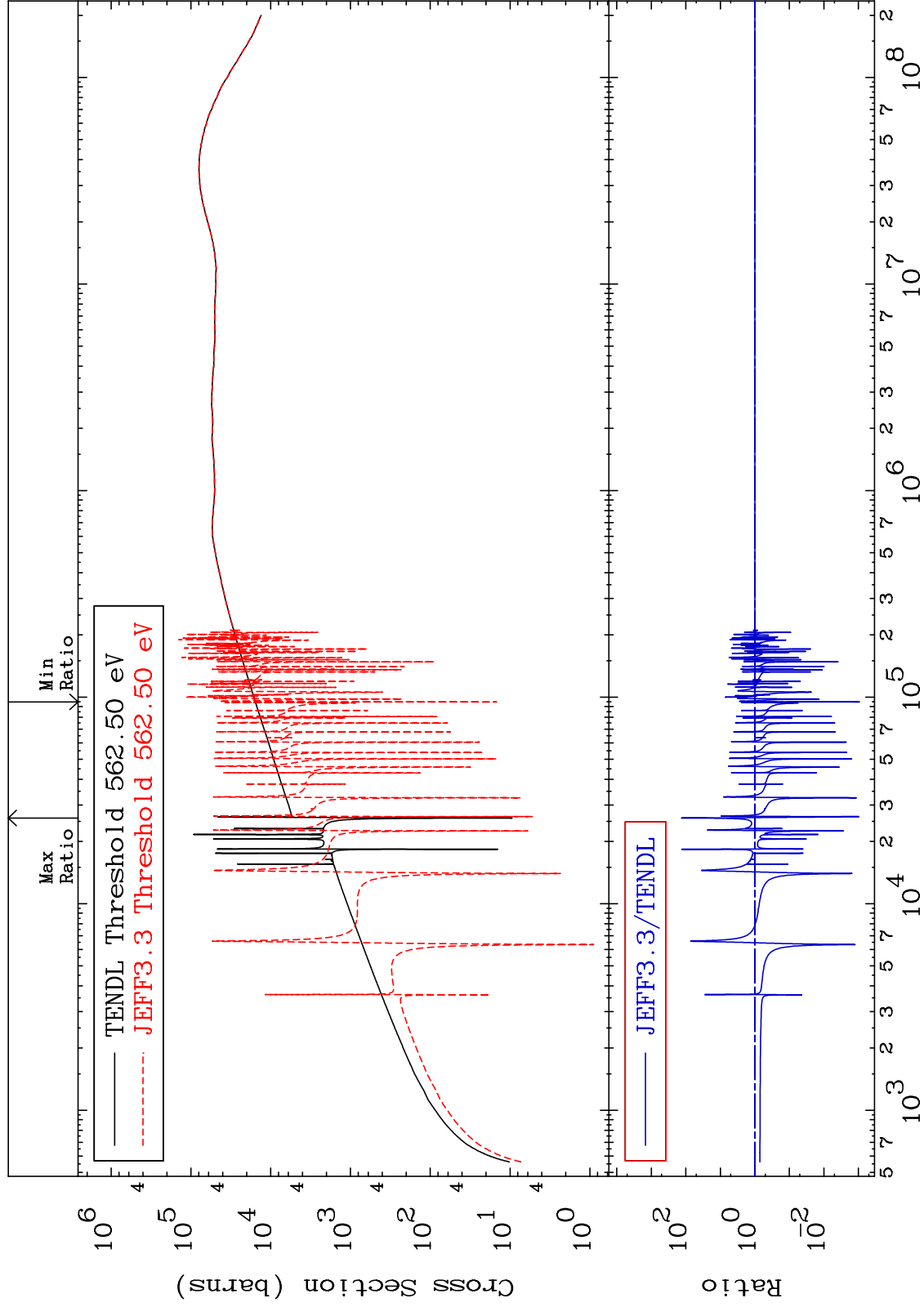
34-Se-82
-99.91 To 9999. %



MAT 3449

Dpa elastic (mt2)
Cross Section

34-Se-82
-99.91 To 9999. %



72

Incident Energy (eV)

34-Se-82

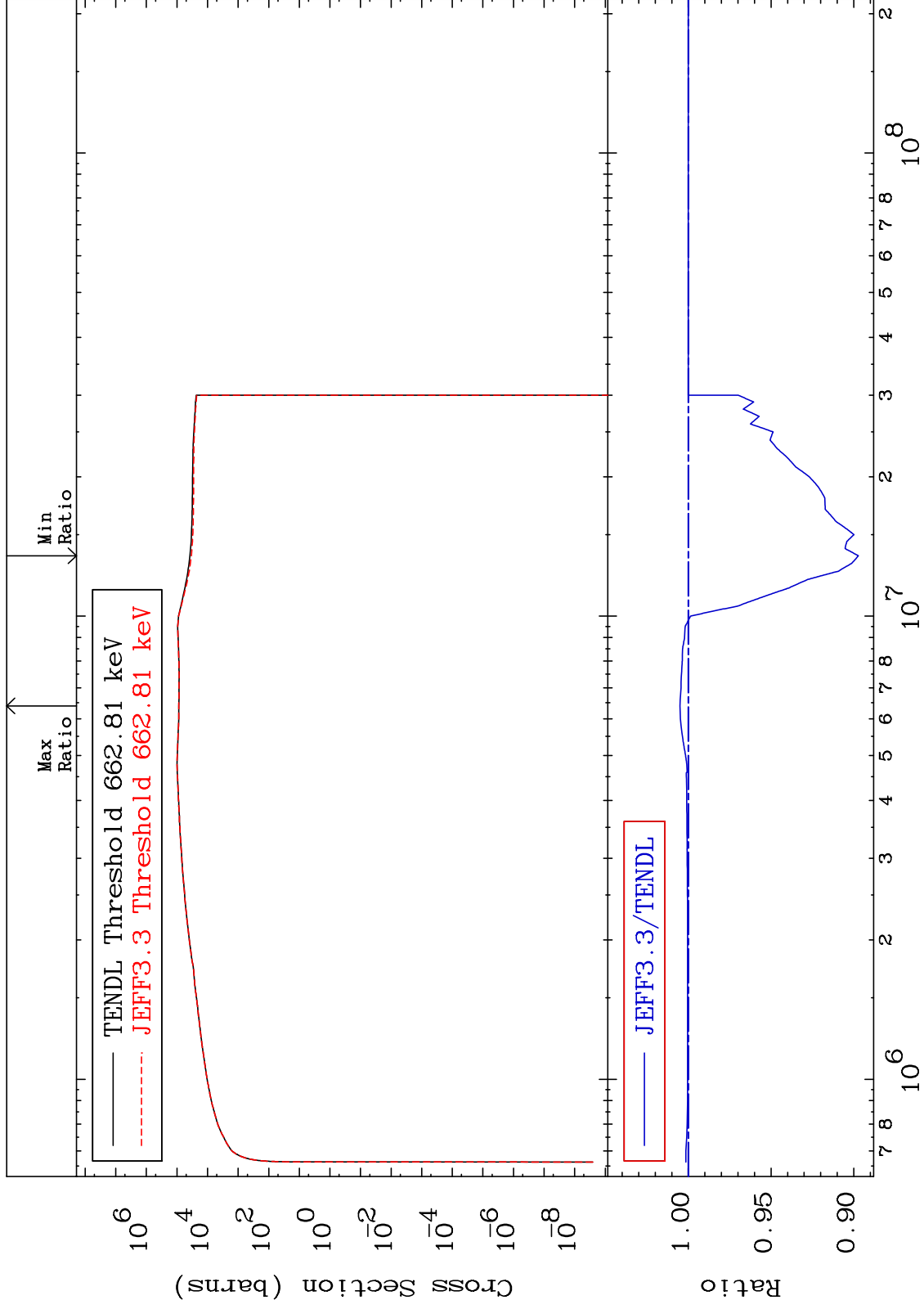
MAT 3449

Dpa inelastic (mt51-91)

34-Se-82

-10.28 To 0.503 %

Cross Section



73

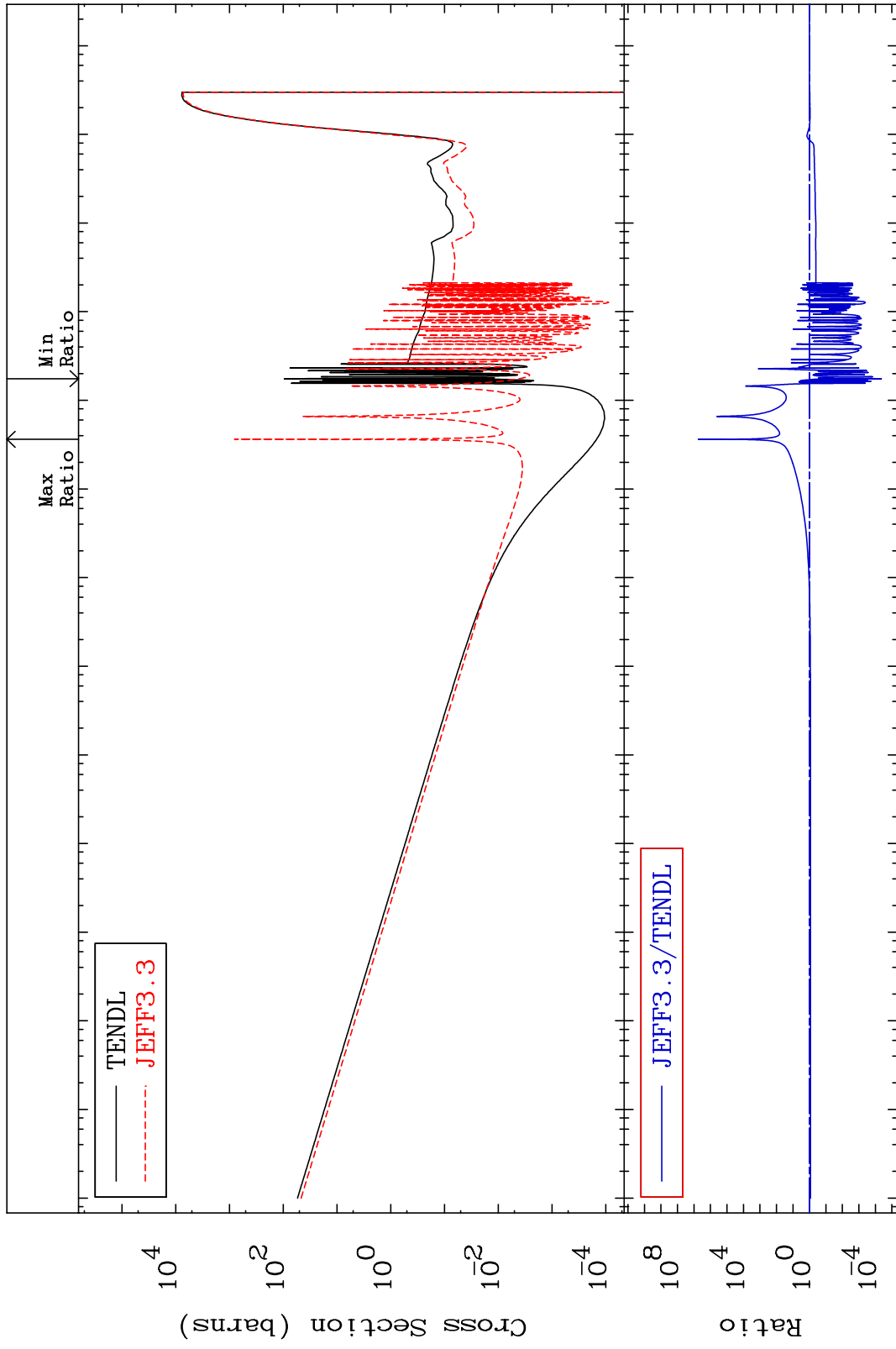
Incident Energy (eV)

34-Se-82

MAT 3449

Dpa disappearance (mt102 -120)
Cross Section

34-Se-82
-100.0 To 9999. %



74

Incident Energy (eV)

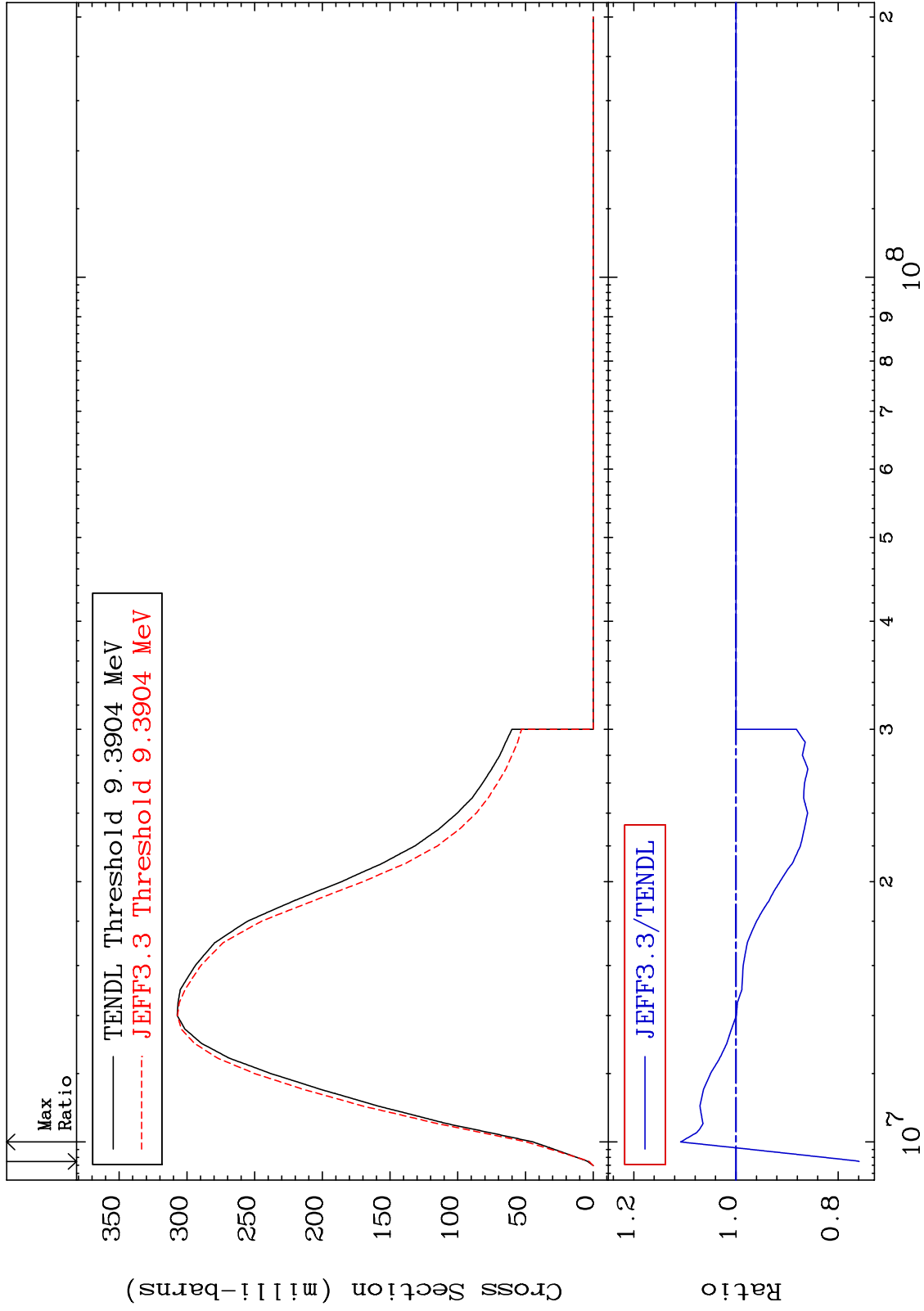
34-Se-82

MAT 3449

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

34-Se-82

Radionuclide Production Cross Section -24.11 To 10.83 %



75

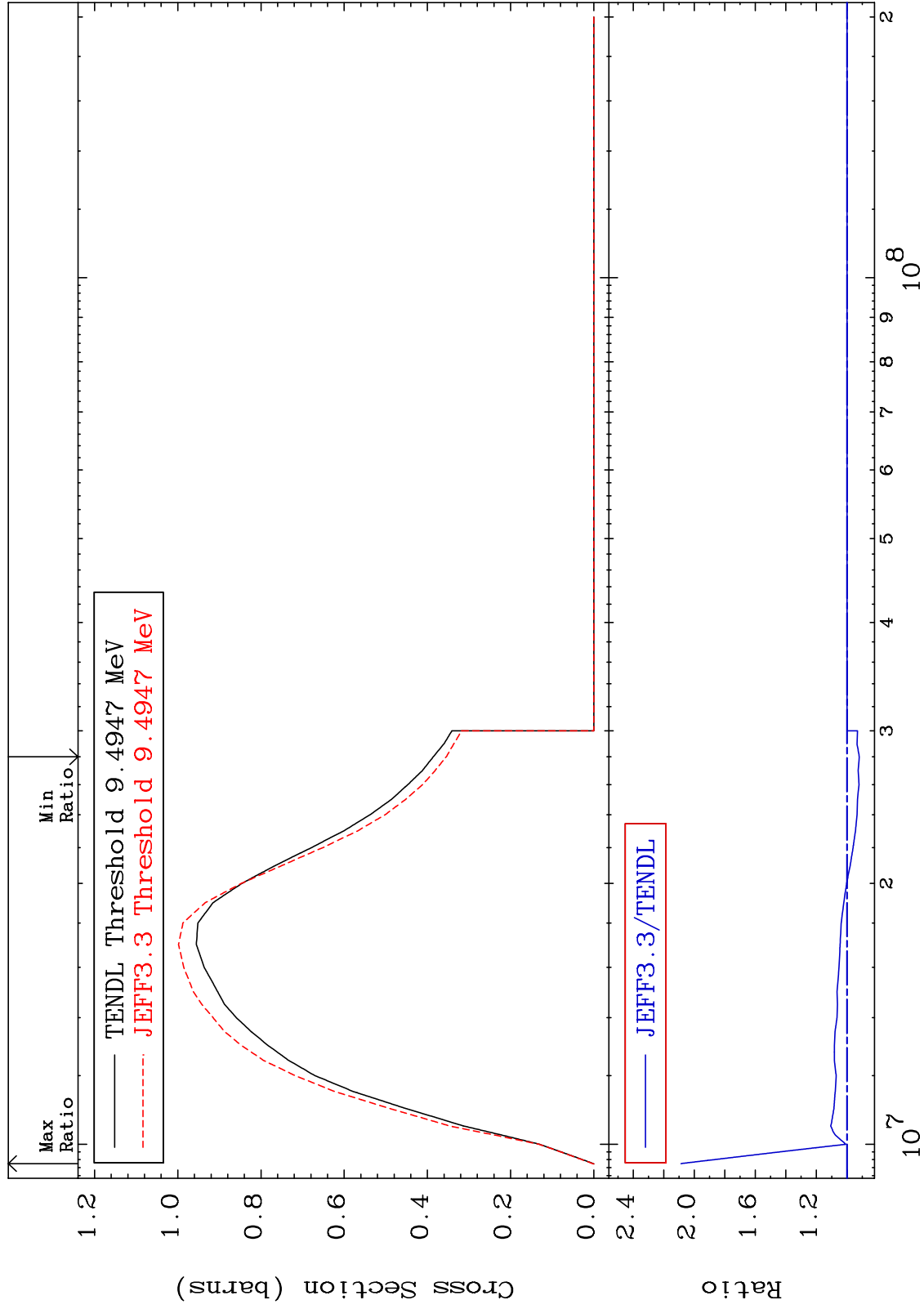
34-Se-82

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)

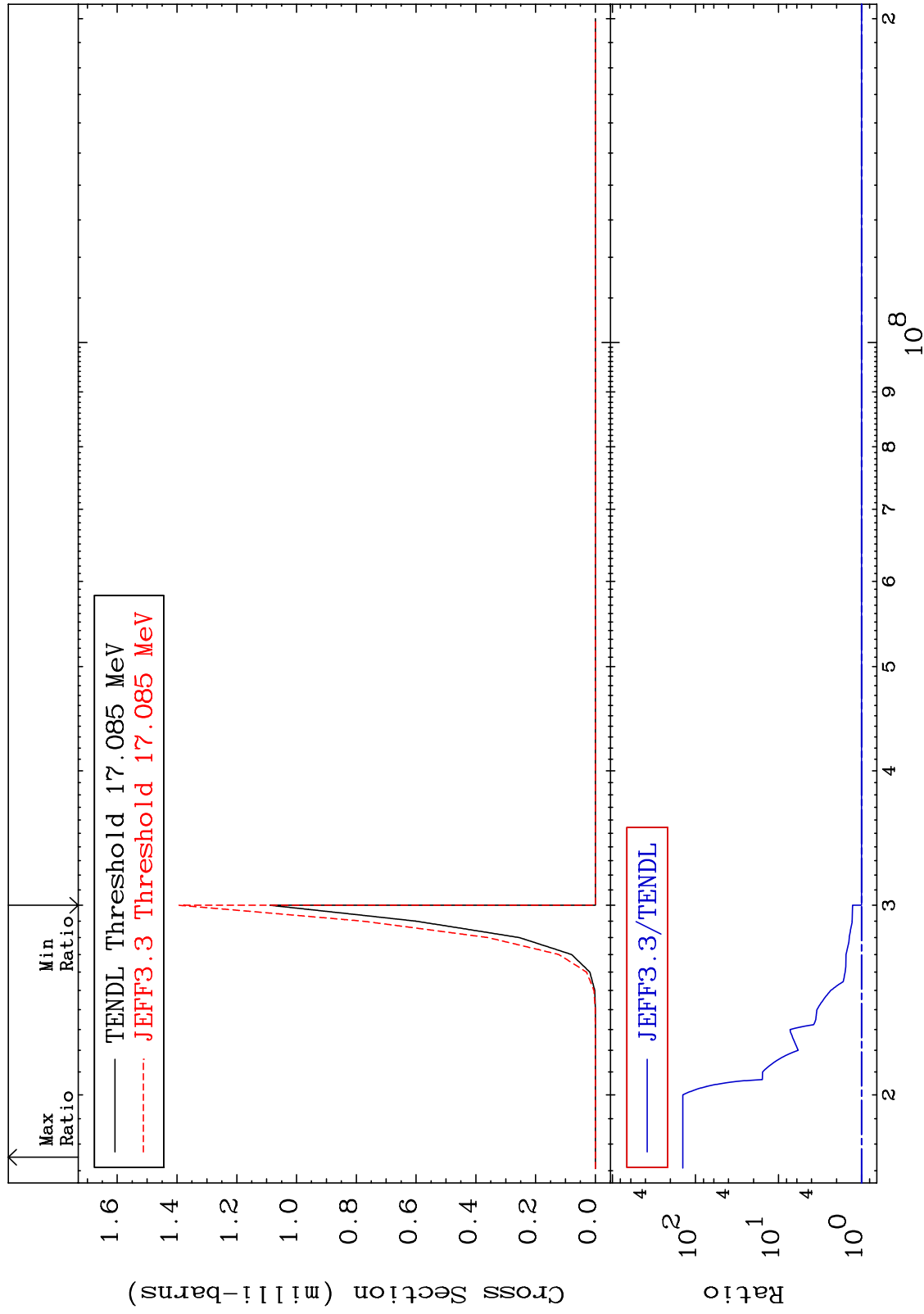
76

MAT 3449

(n,2n) α :32-Ge-77g

34-Se-82

Radionuclide Production Cross Section 0.000 To 9999. %



77

Incident Energy (eV)

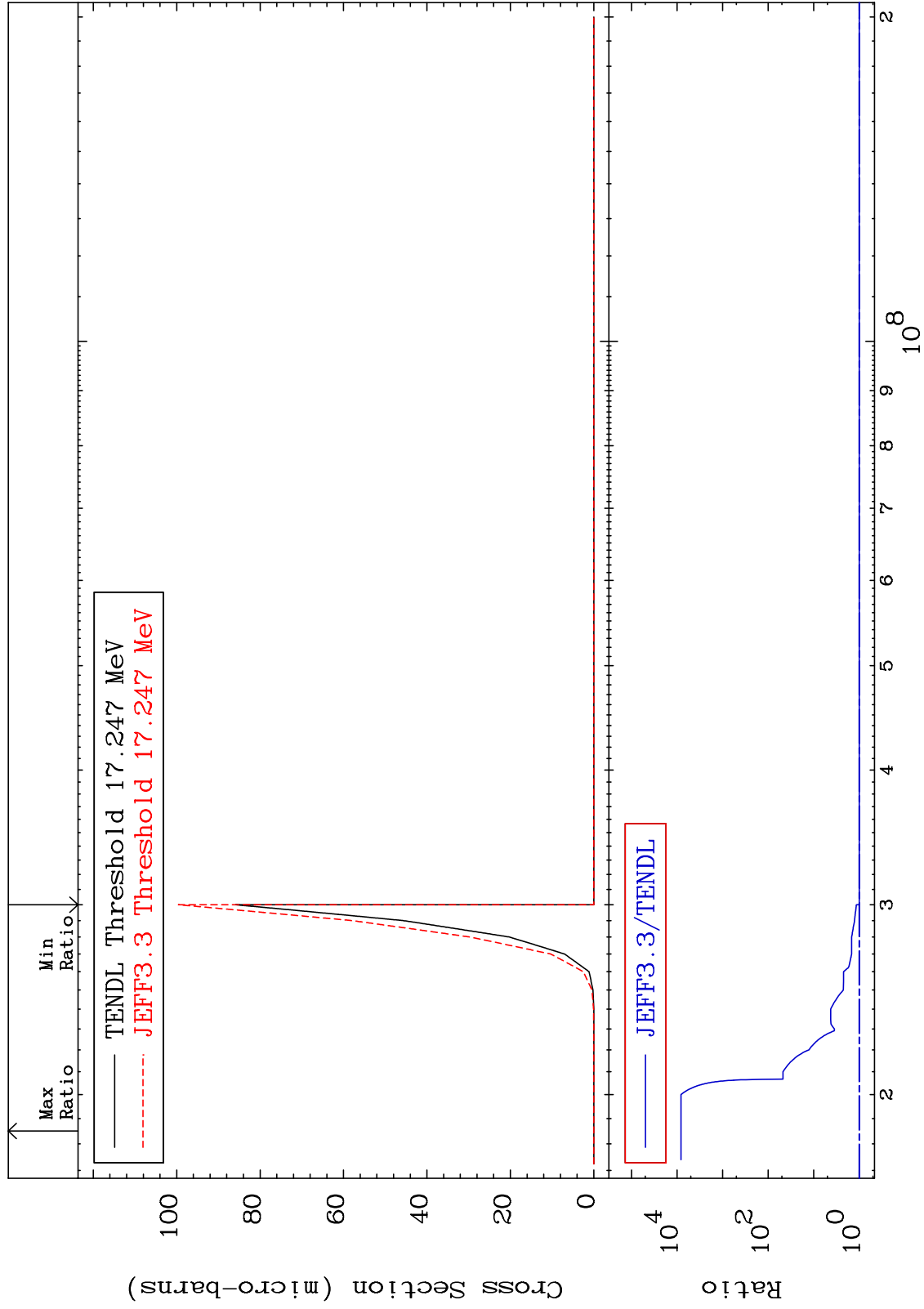
34-Se-82

MAT 3449

(n,2n) α :32-Ge-77m1

34-^{Se}-82

Radionuclide Production Cross Section 0.000 To 9999. %



78

Incident Energy (eV)

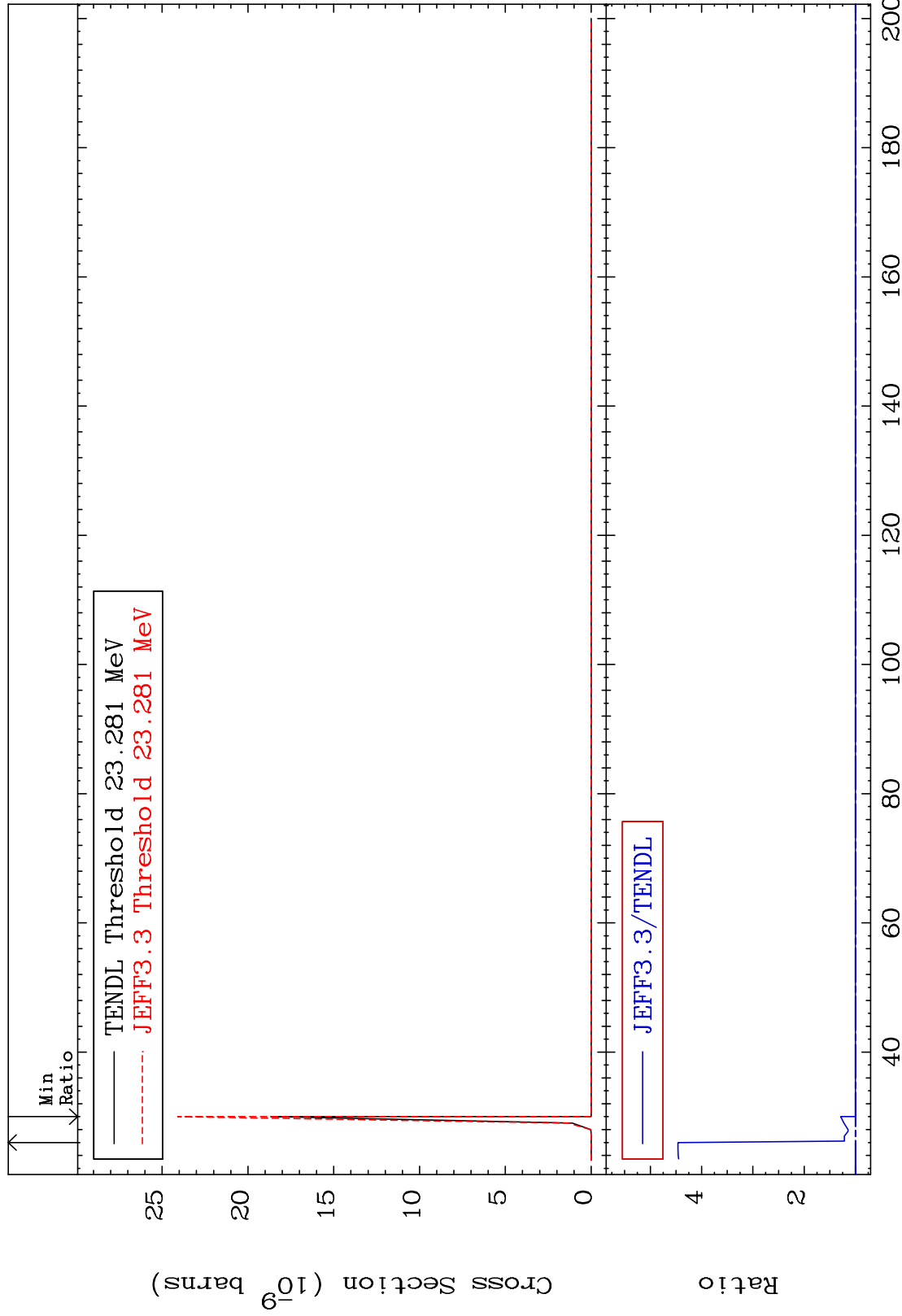
34-^{Se}-82

MAT 3449

34-Se-82

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

Radionuclide Production Cross Section 0.000 To 346.0 %



79

Incident Energy (MeV)

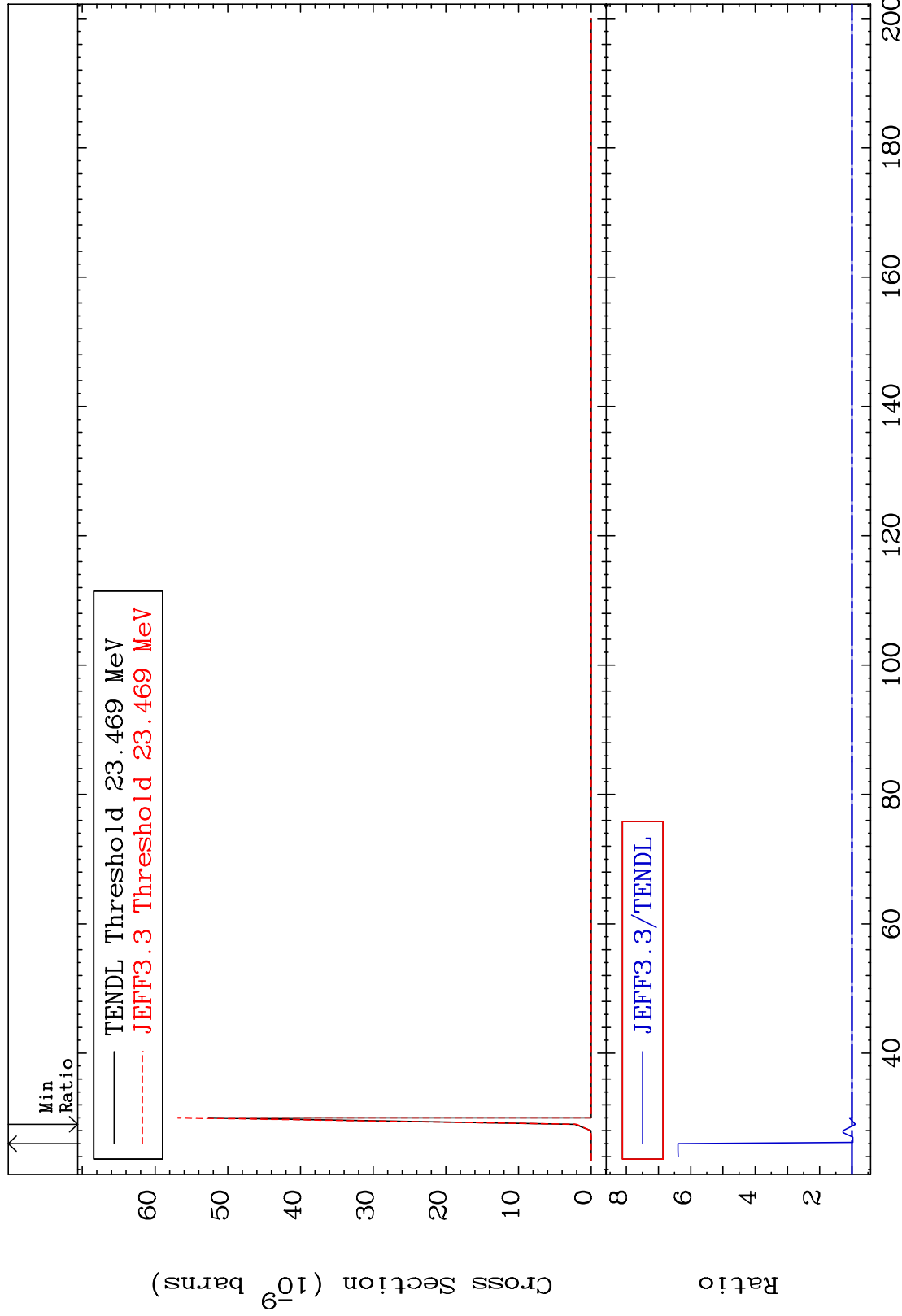
34-Se-82

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)

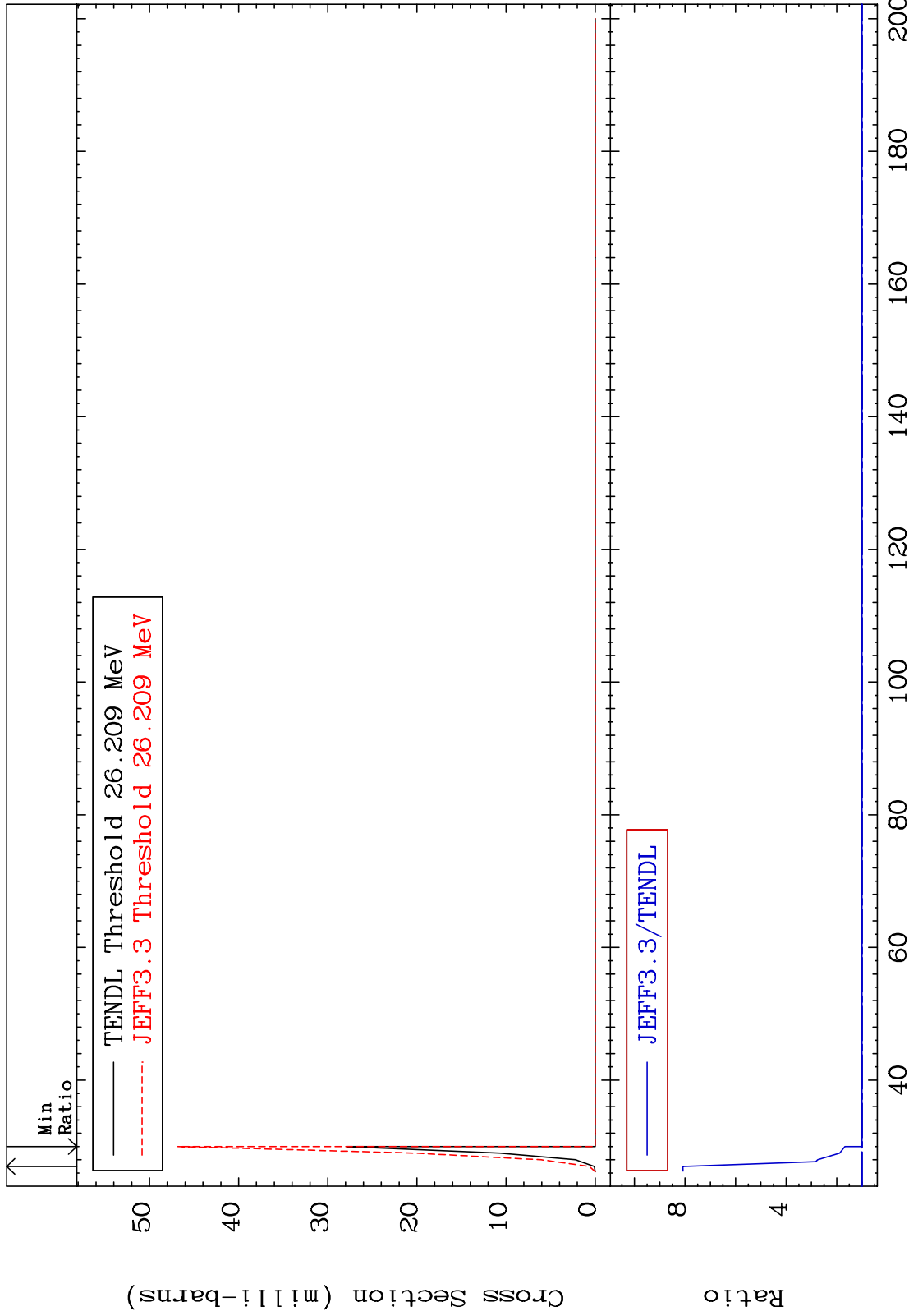
34-Se-82

MAT 3449

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

34-Se-82

Radionuclide Production Cross Section 0.000 To 708.5 %



81

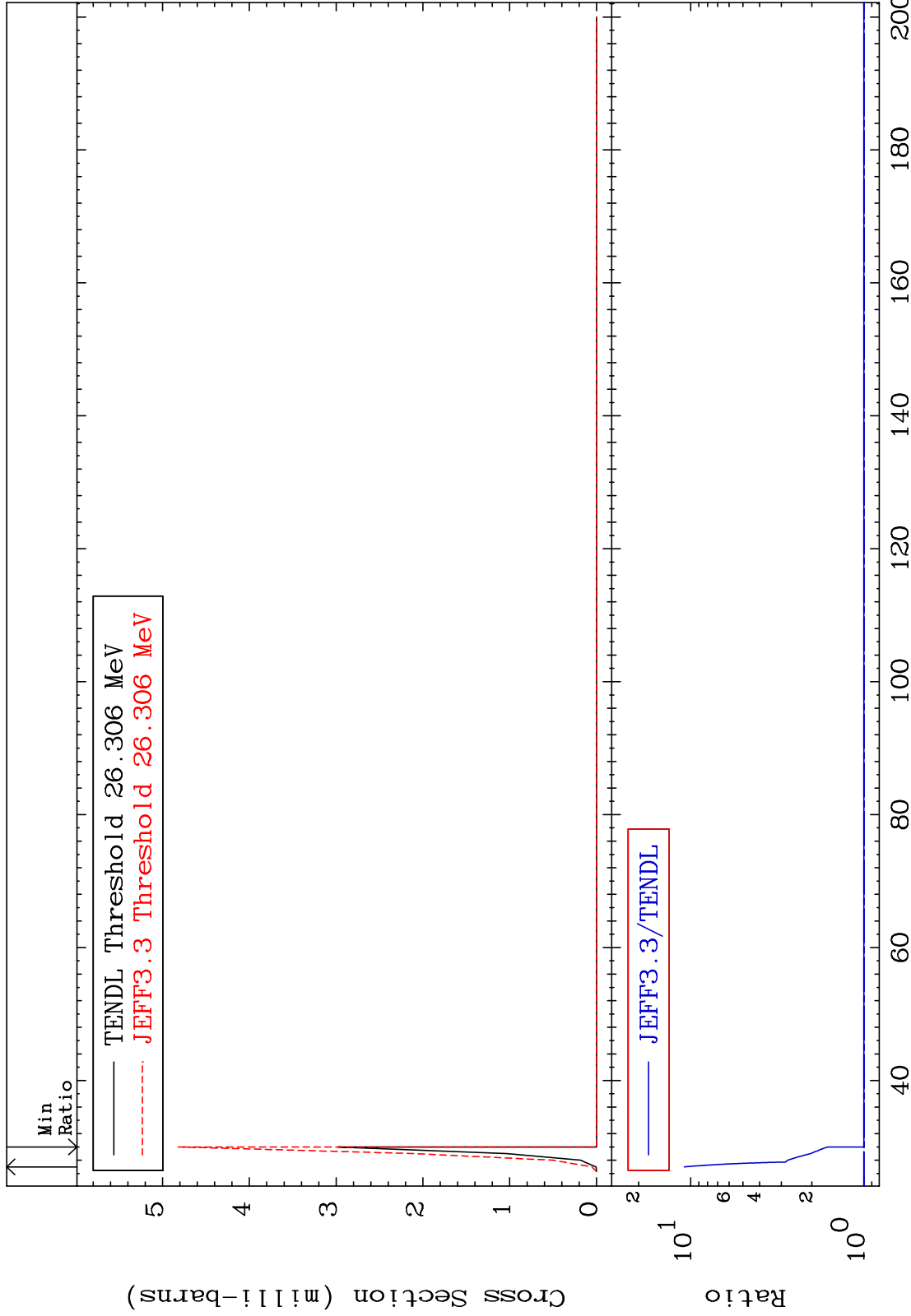
34-Se-82

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

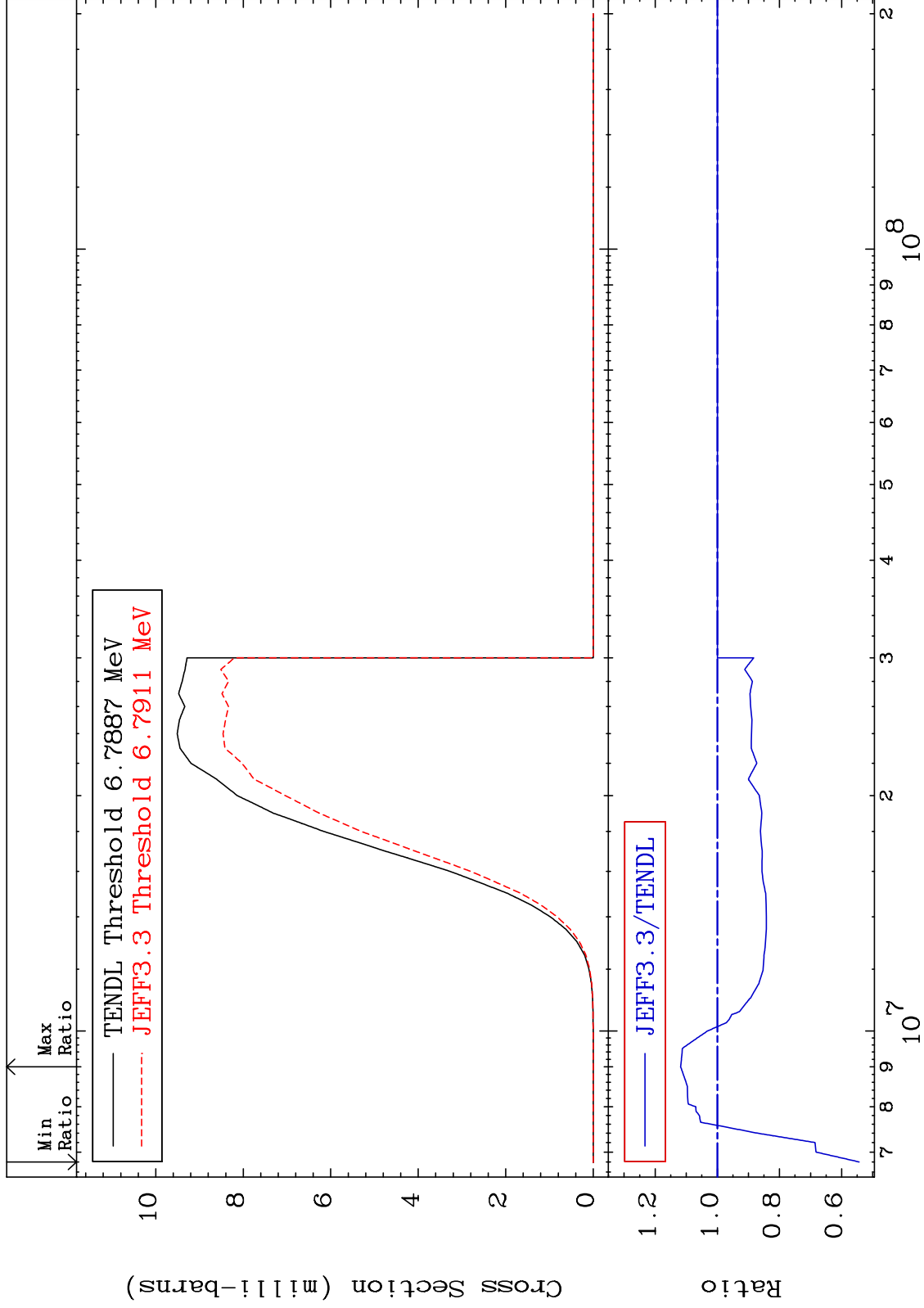
MAT 3449

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

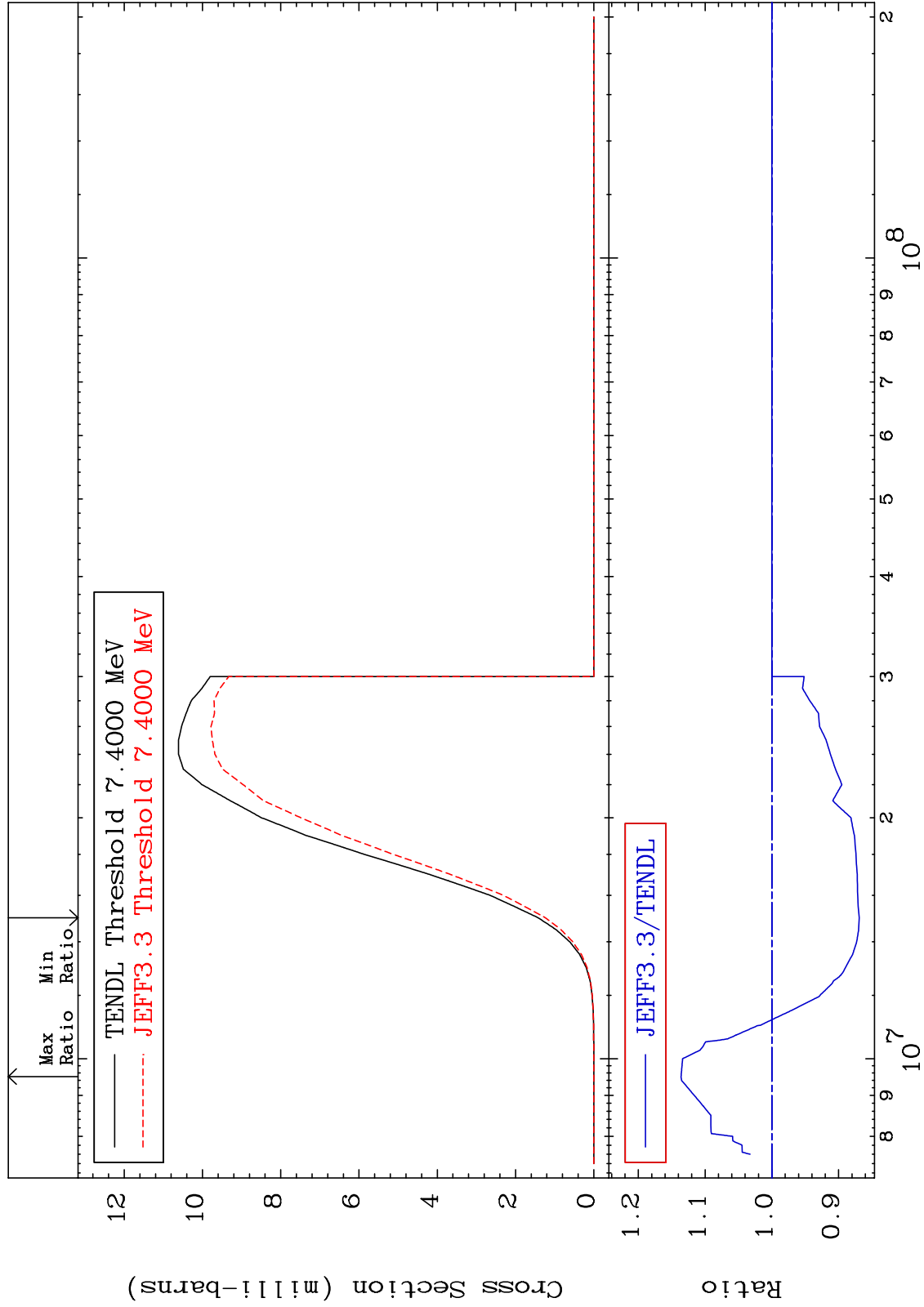
34-Se-82

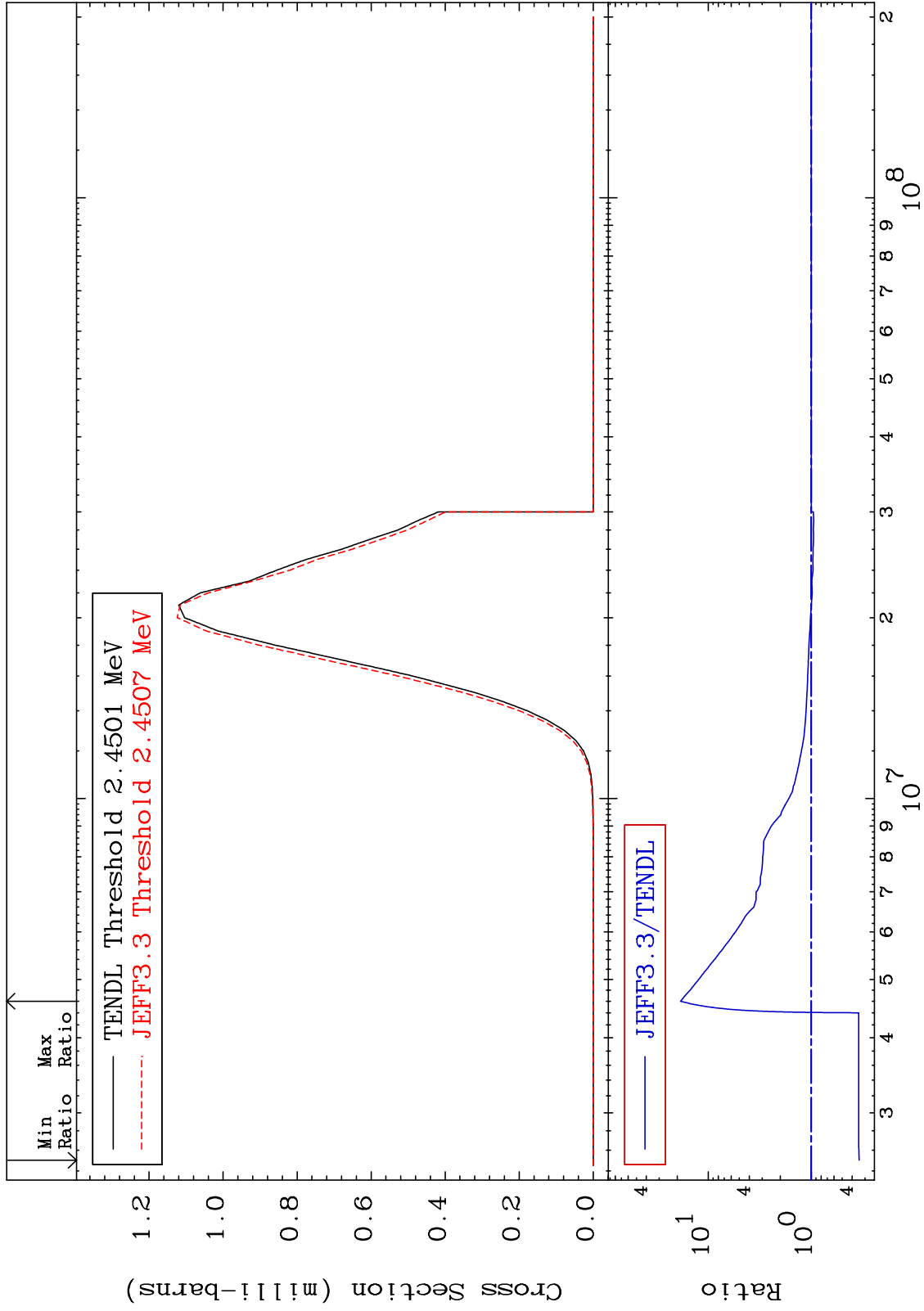
Radionuclide Production Cross Section

-45.64 To 11.82 %



Radionuclide Production Cross Section -13.10 To 13.60 %



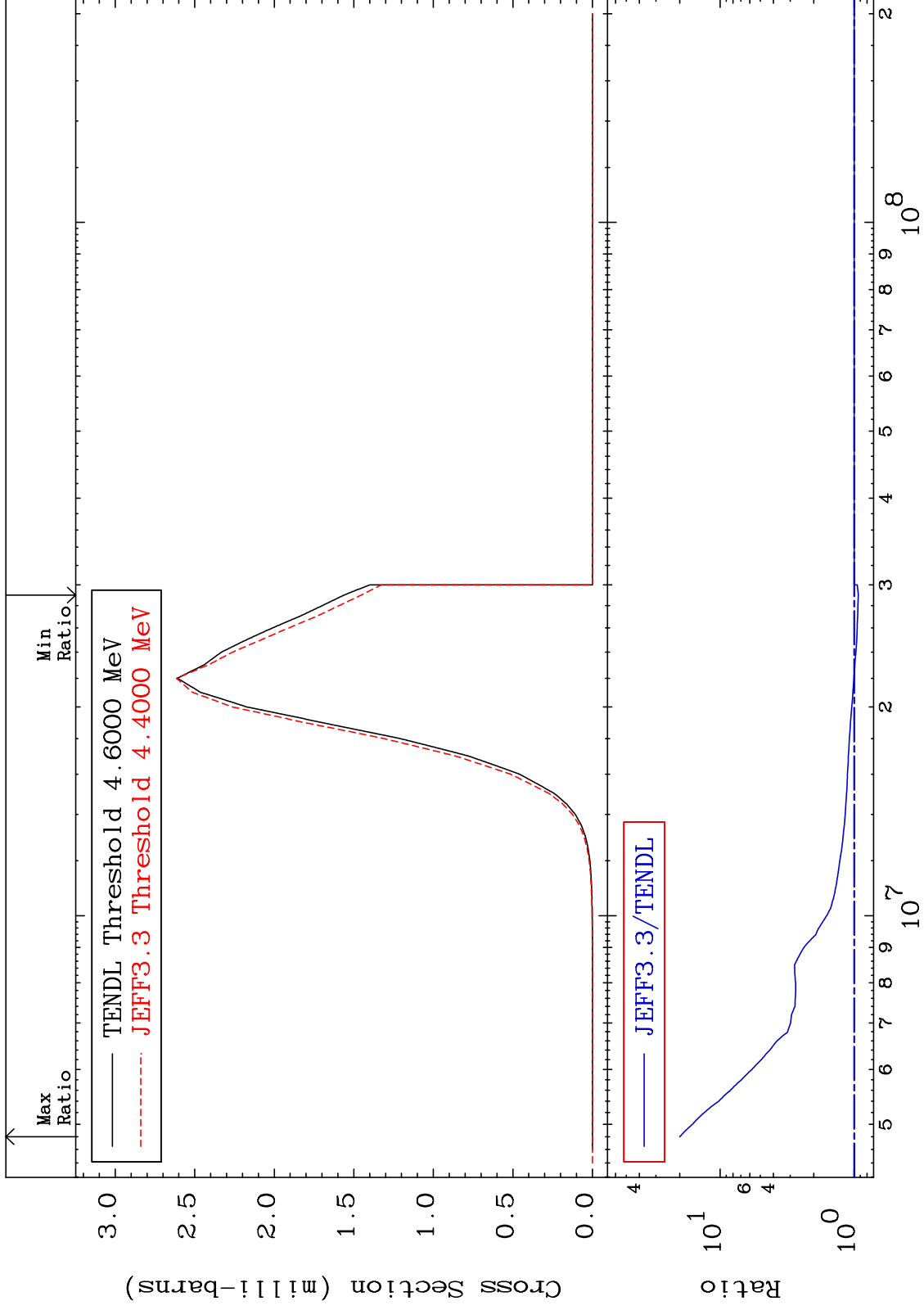


MAT 3449

(n, α): 32-Ge-79m1

34-Se-82

Radionuclide Production Cross Section -6.980 To 1894. %

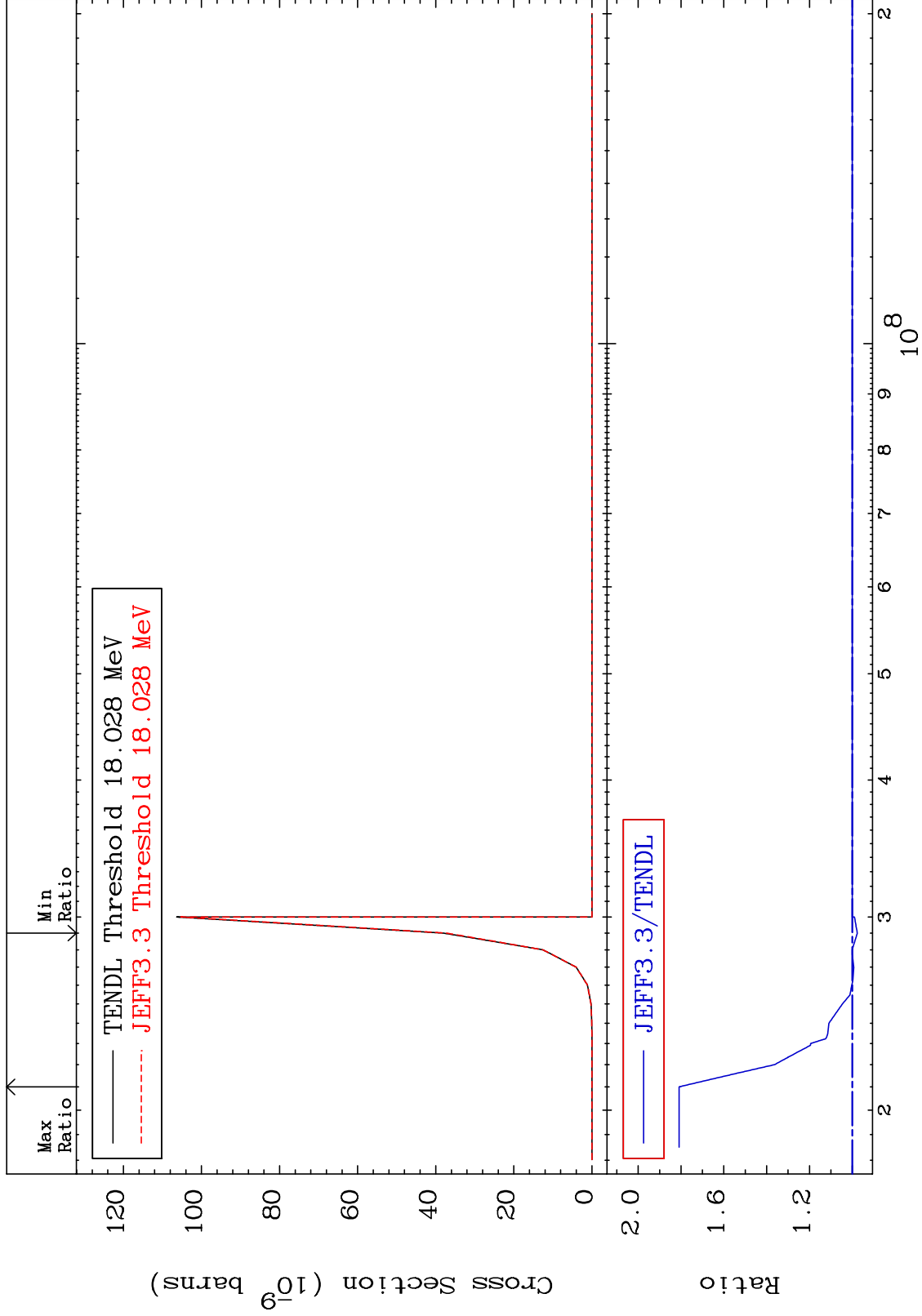


MAT 3449

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

34-Se-82

Radionuclide Production Cross Section -2.350 To 80.87 %



87

Incident Energy (eV)

34-Se-82

