

Program Complot
(Version 2018-1)

by

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(Present Contact Information)

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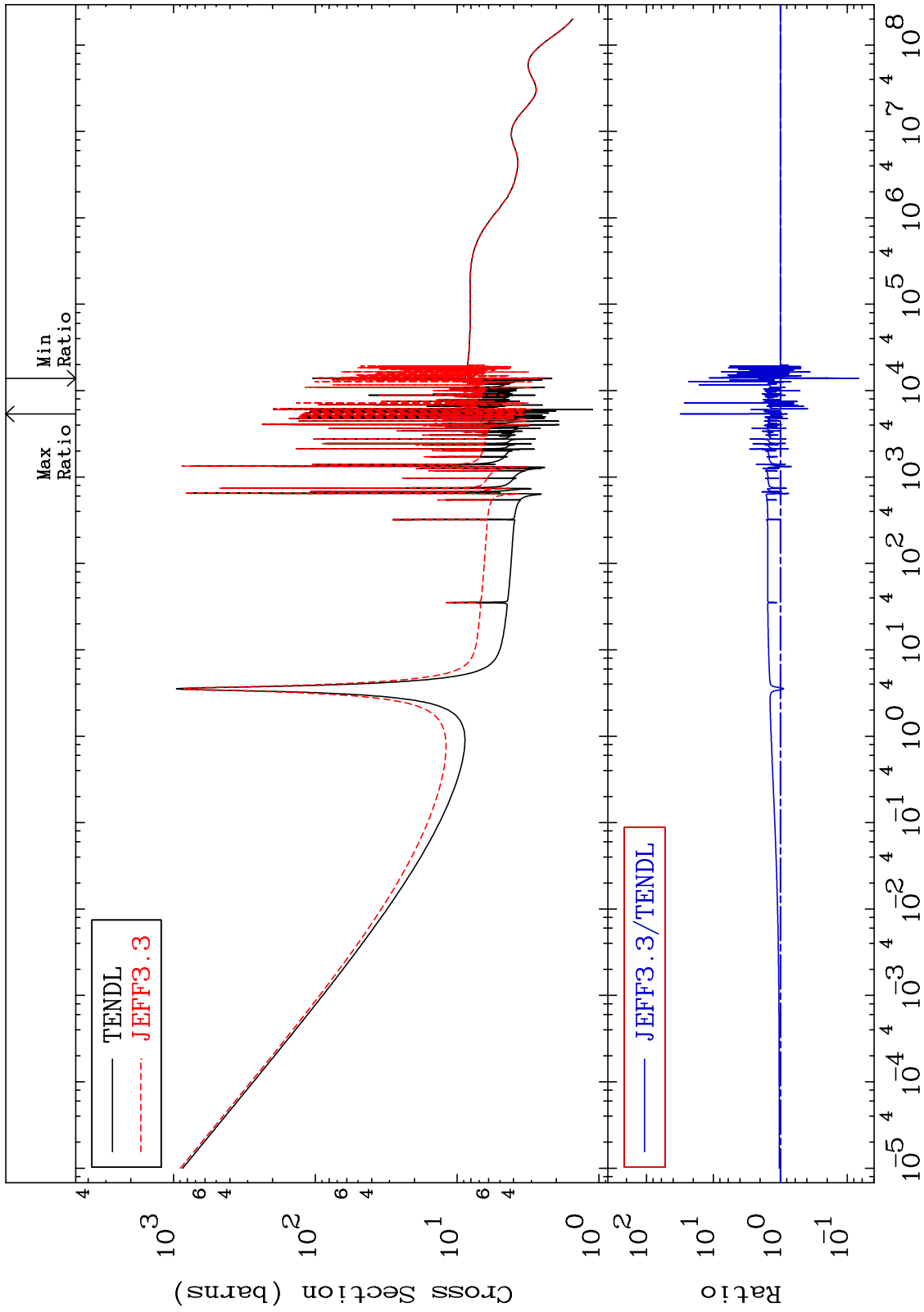
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 3834

Total
Cross Section

38-Sr-87
-93.30 To 3036. %



Incident Energy (eV)

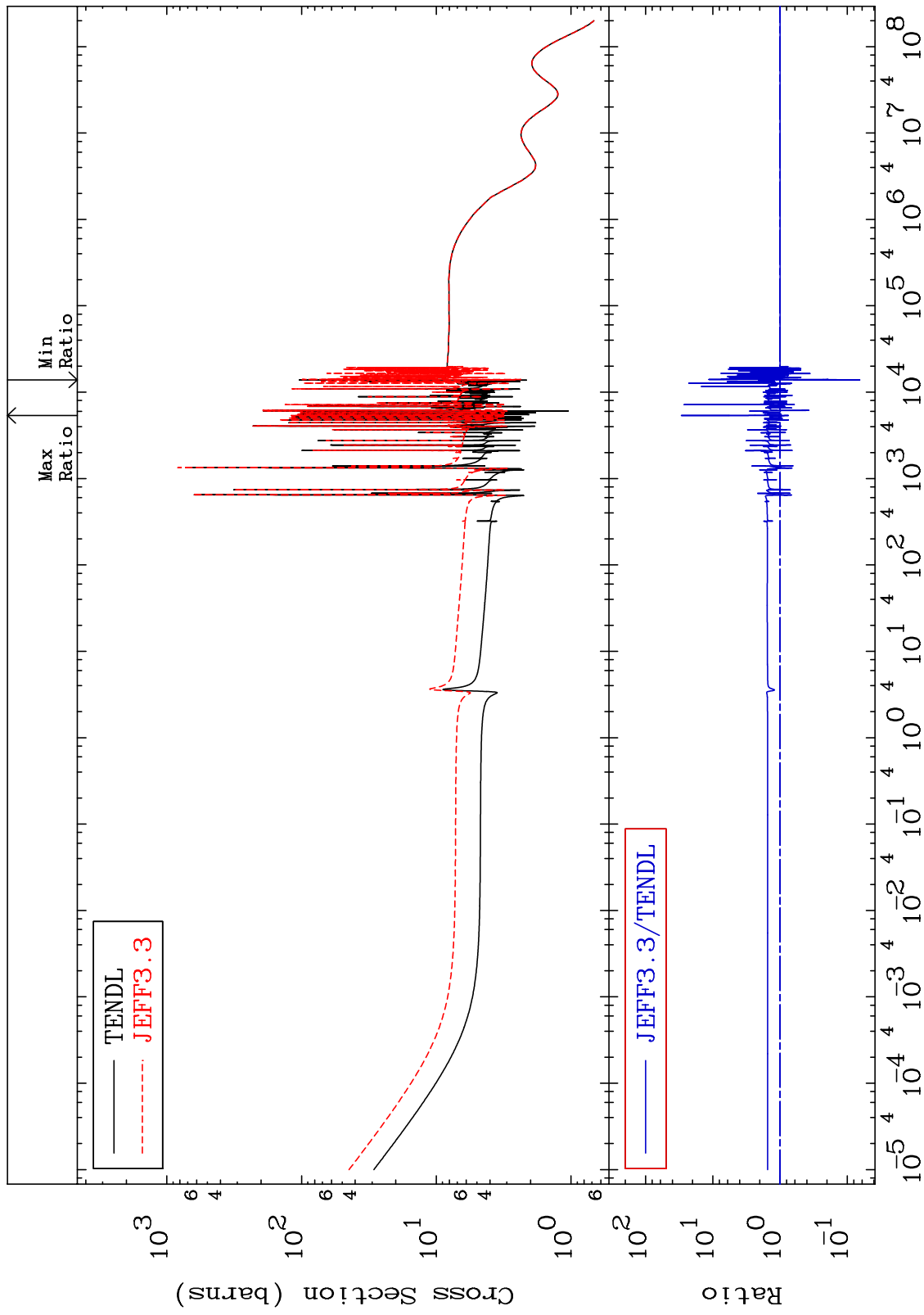
38-Sr-87

1

MAT 3834

Elastic
Cross Section

38-Sr-87
-93.48 To 2850. %



2

Incident Energy (eV)

38-Sr-87

MAT 3834 38-Sr-87 -0.004 To 0.486 %

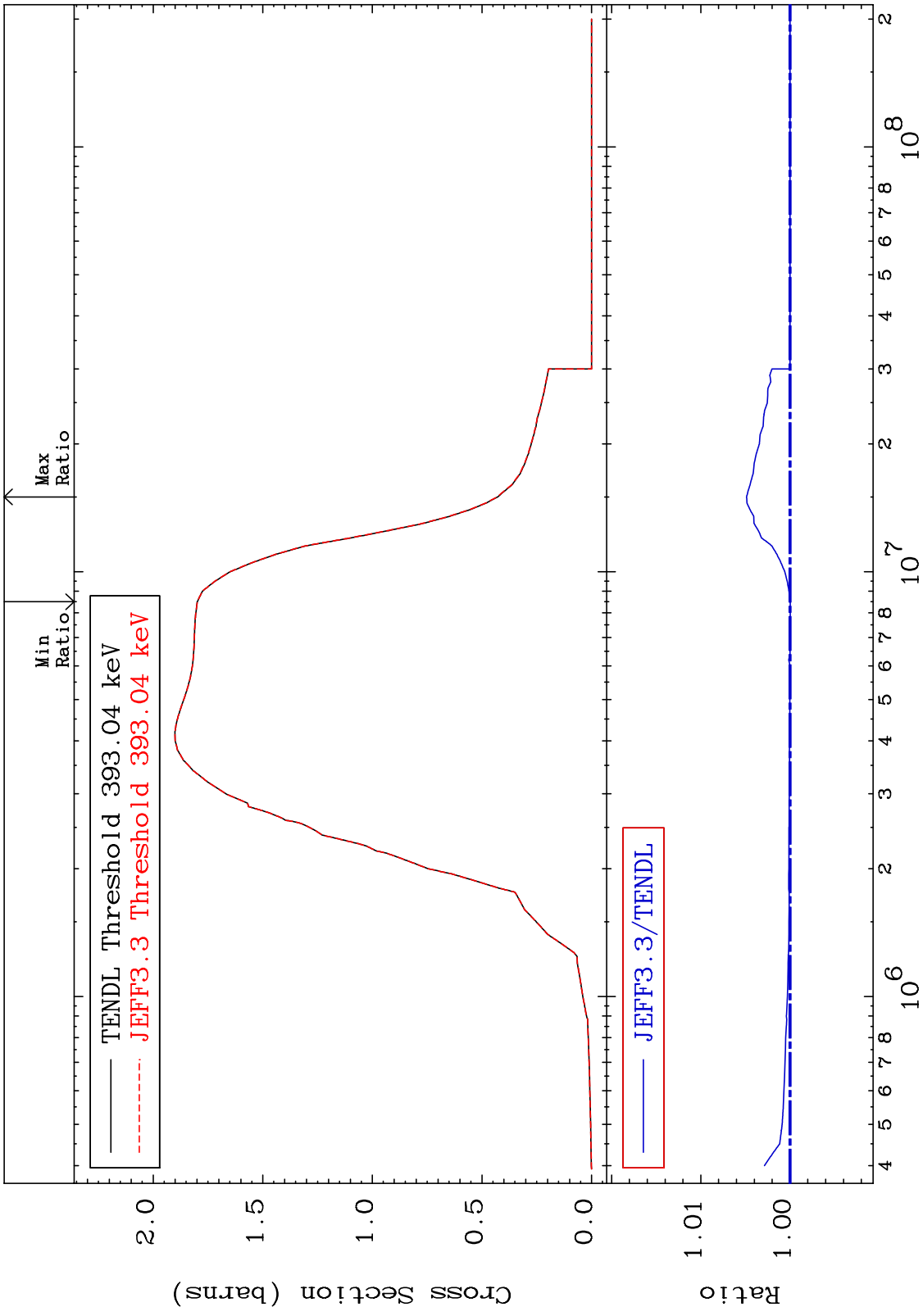
Inelastic Cross Section

Min Ratio

Max Ratio

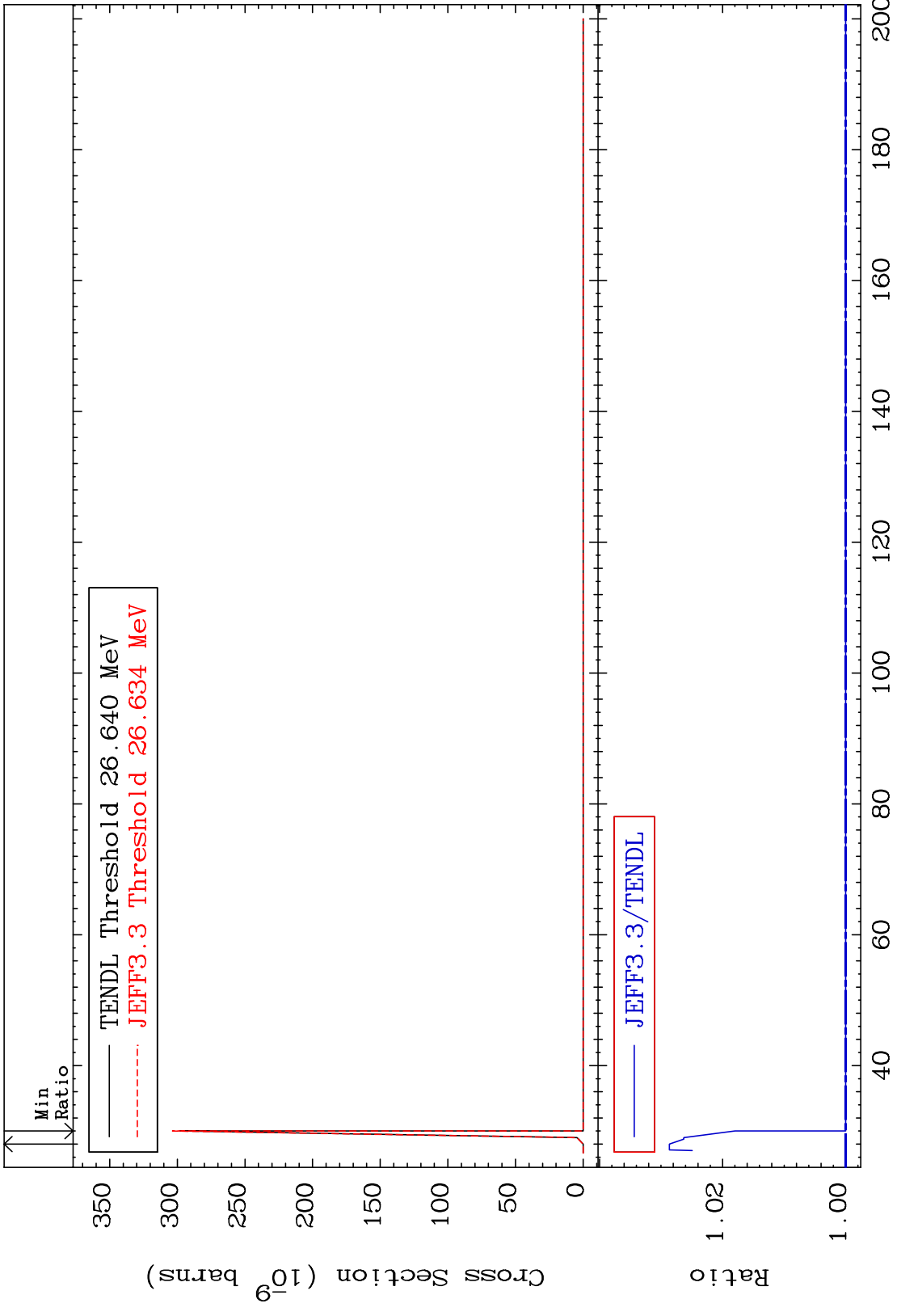
38-Sr-87

-0.004 To 0.486 %

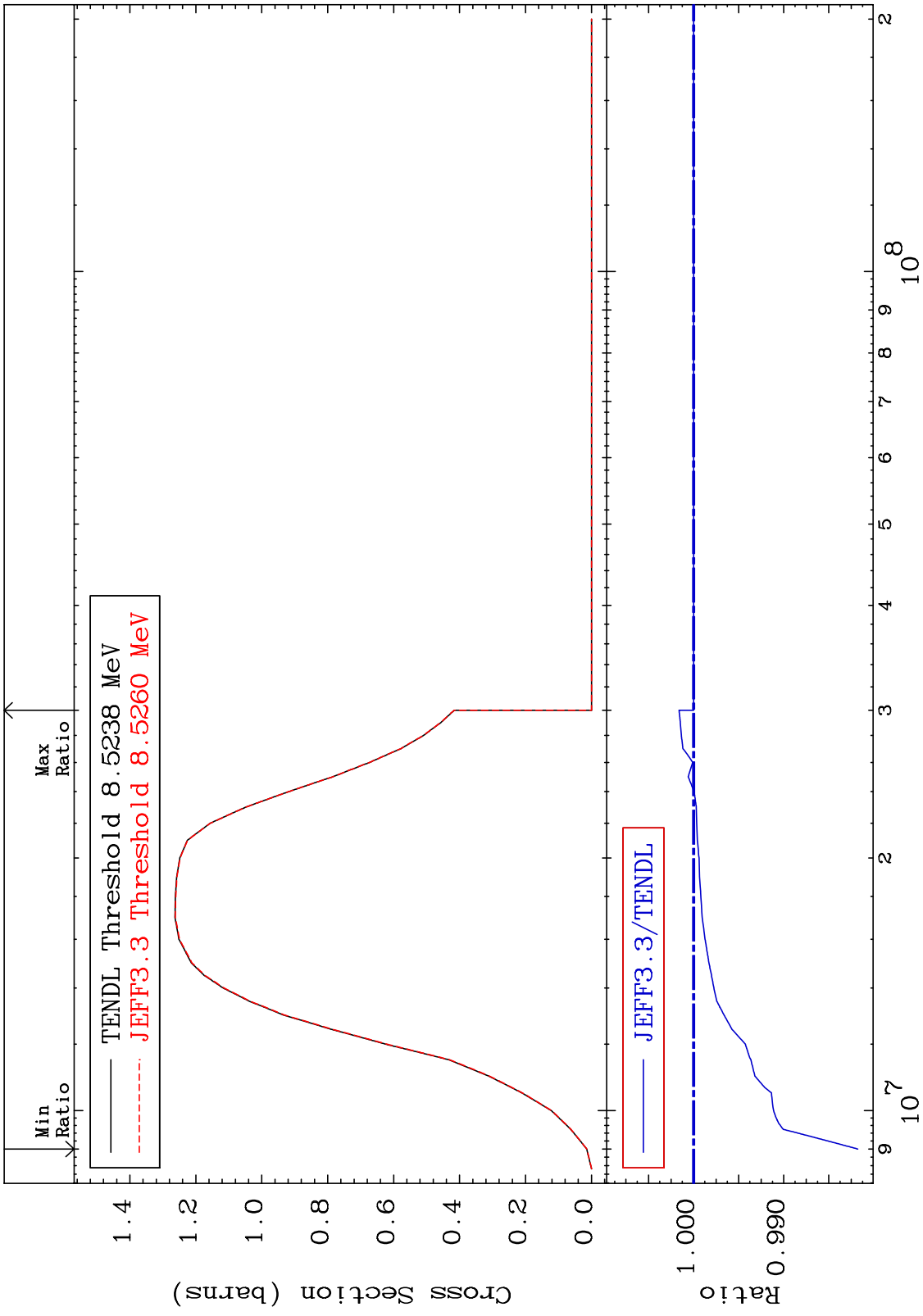


38-Sr-87

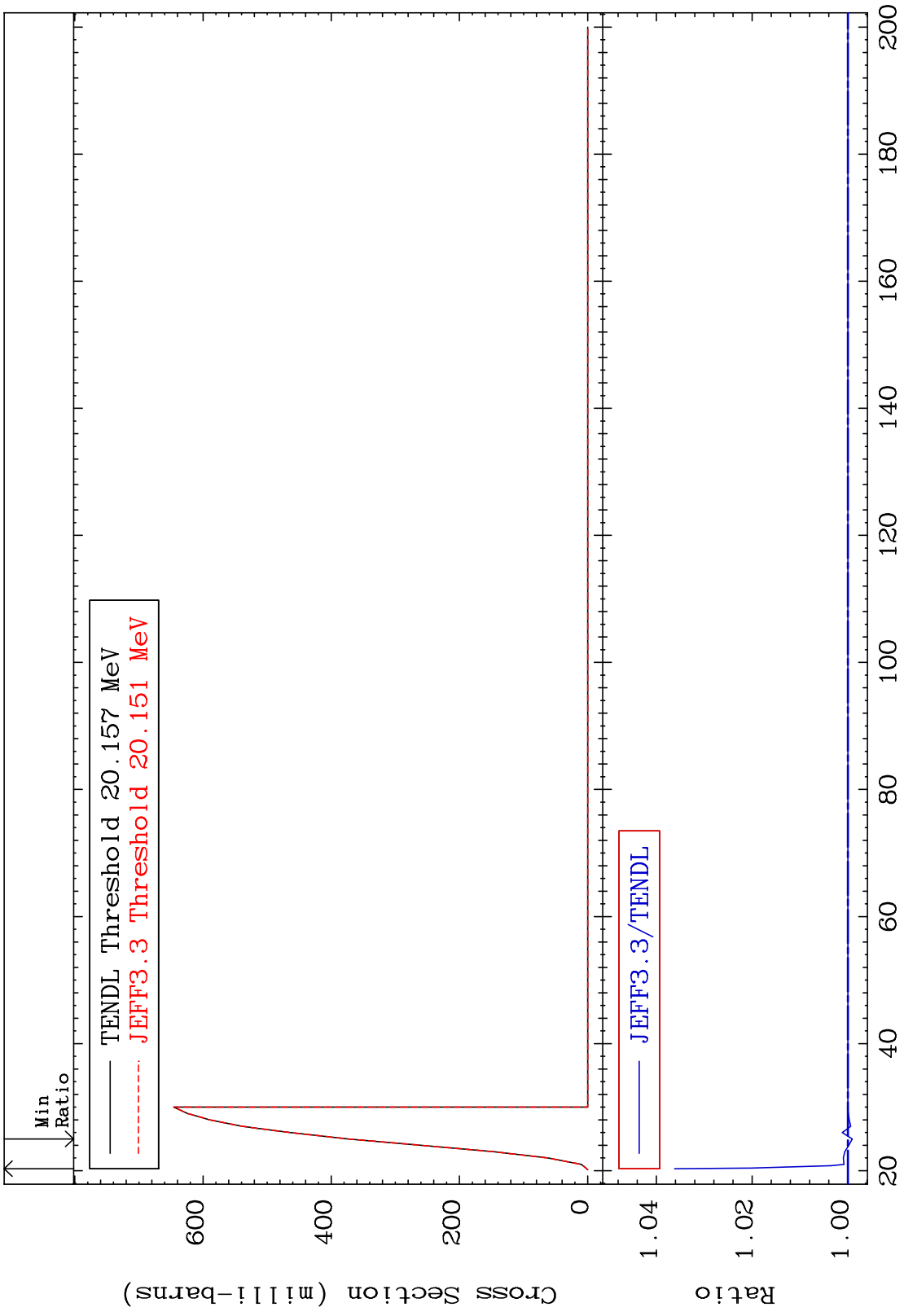
MAT 3834 (n,2n) d 38-Sr-87
Cross Section 0.000 To 2.863 %



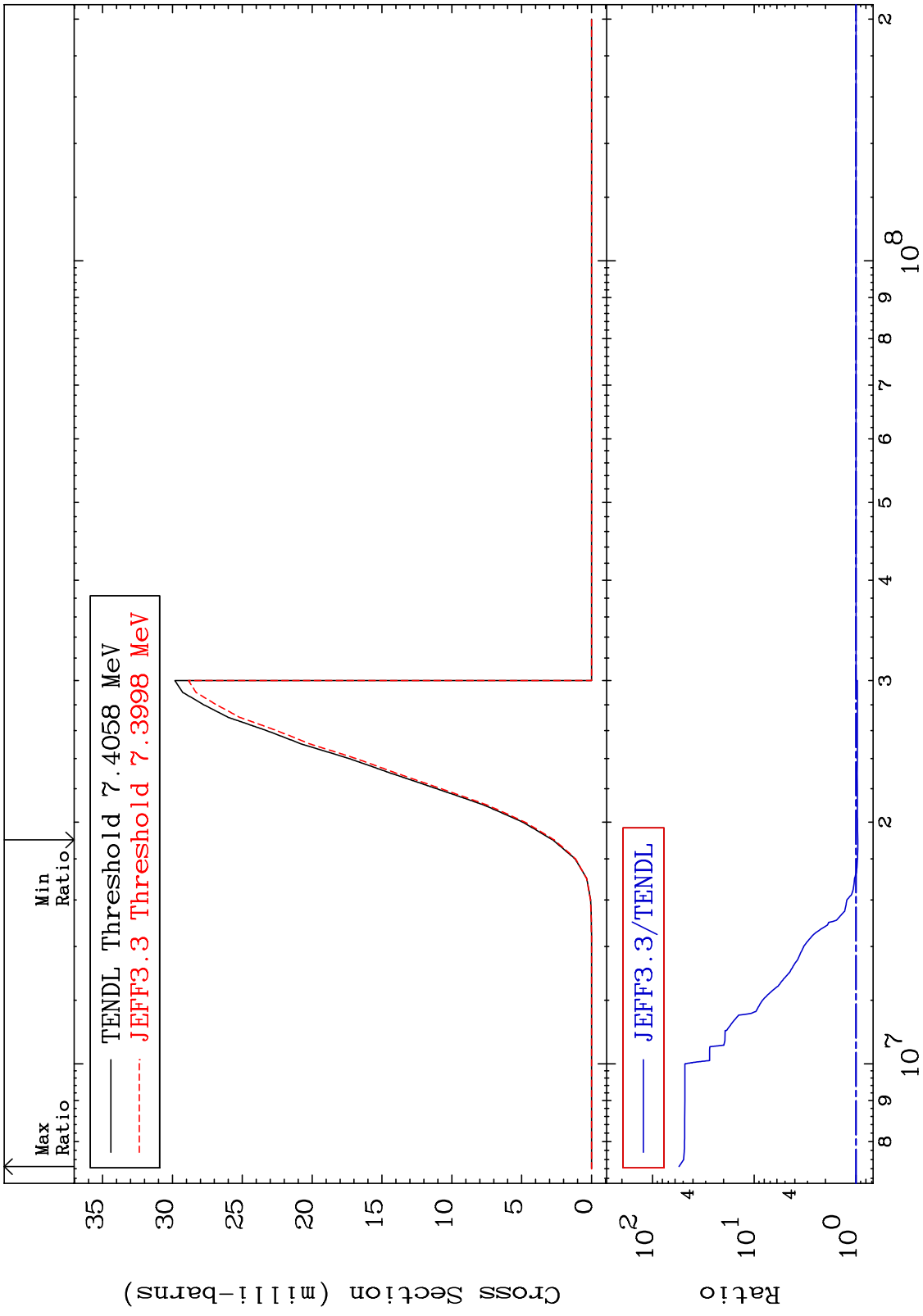
MAT 3834 $(n, 2n)$ Cross Section $^{38}\text{Sr-87}$ -1.822 To 0.161 %



MAT 3834 (n,3n) Cross Section 38-Sr-87 -0.092 To 3.618 %

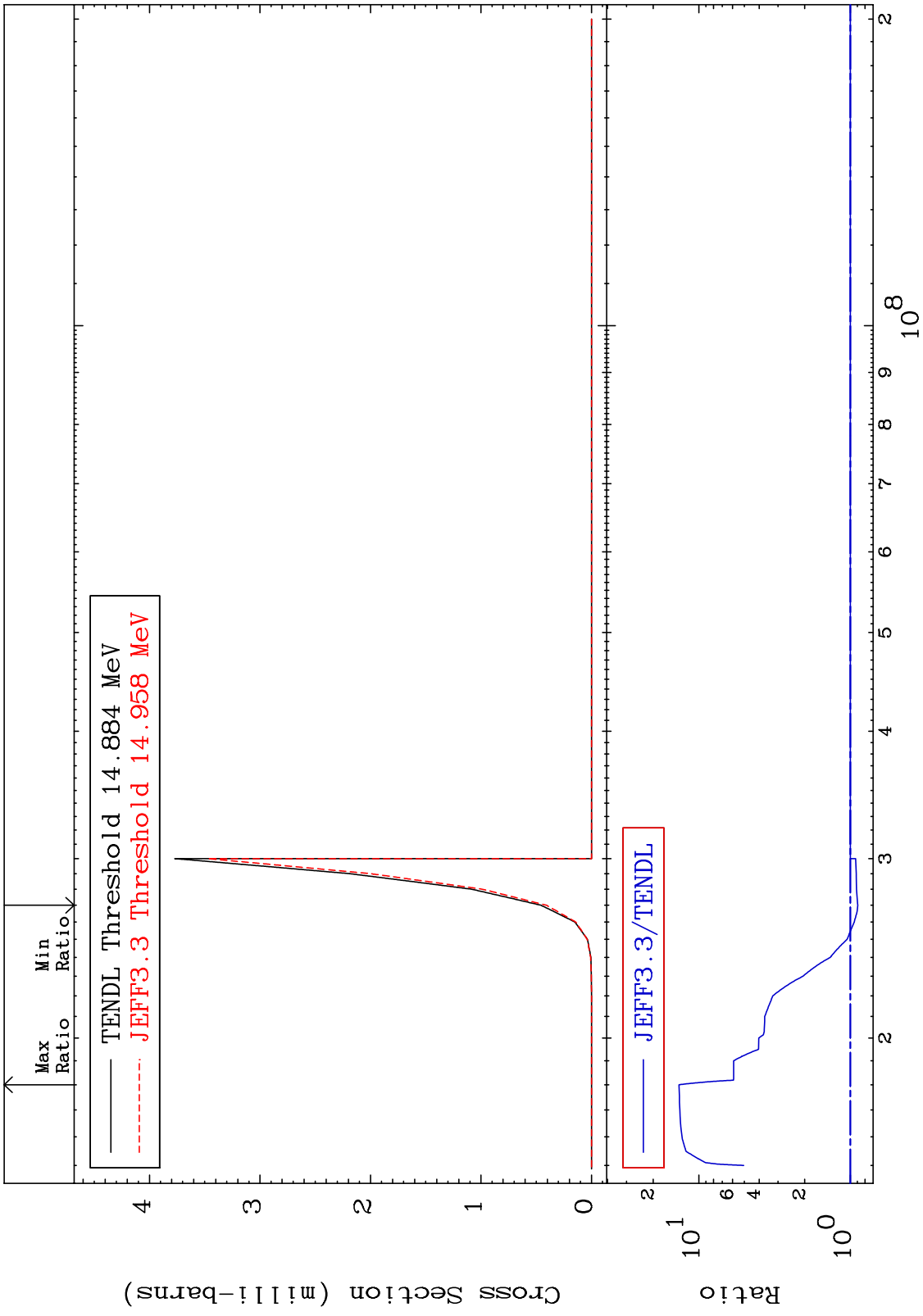


MAT 3834 $(n, n') \alpha$ 38-Sr-87
 Cross Section -4.137 To 5392. %

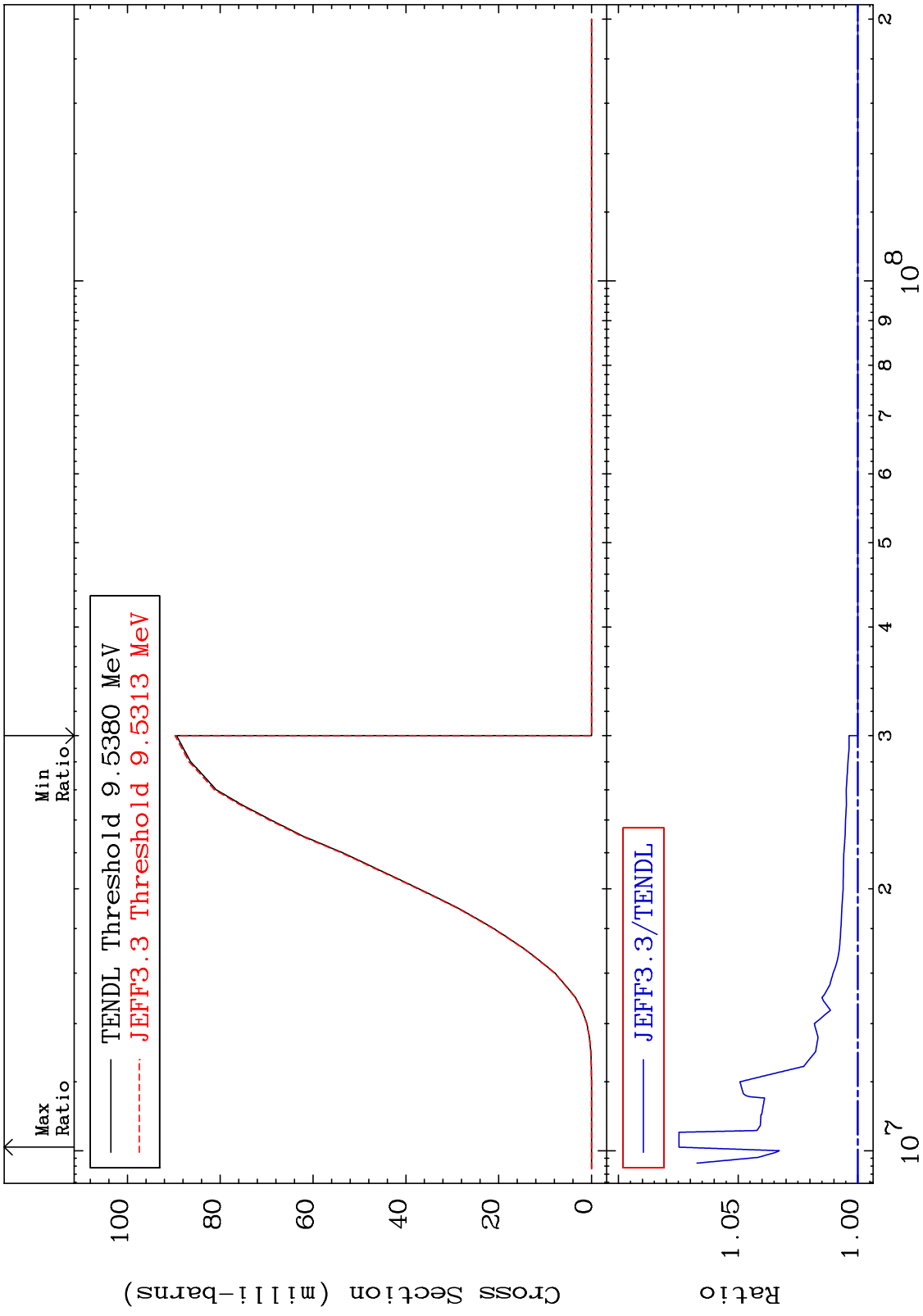


7 Incident Energy (eV) 38-Sr-87

MAT 3834 $(n, 2n) \alpha$ $^{38}\text{Sr-87}$
 Cross Section $-10.74 \text{ To } 1251. \%$

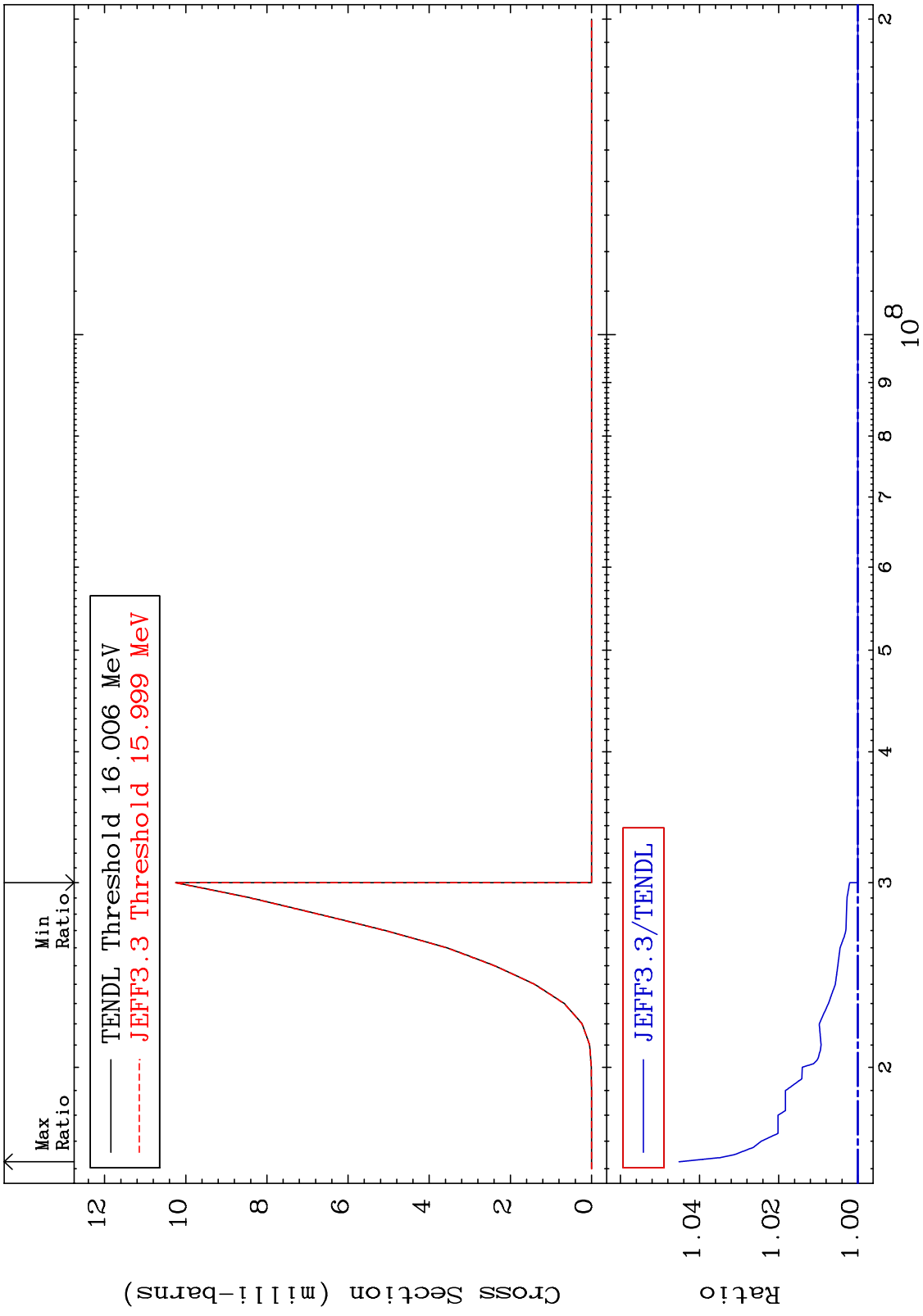


MAT 3834 (n,n') p 38-Sr-87
Cross Section 0.000 To 7.468 %



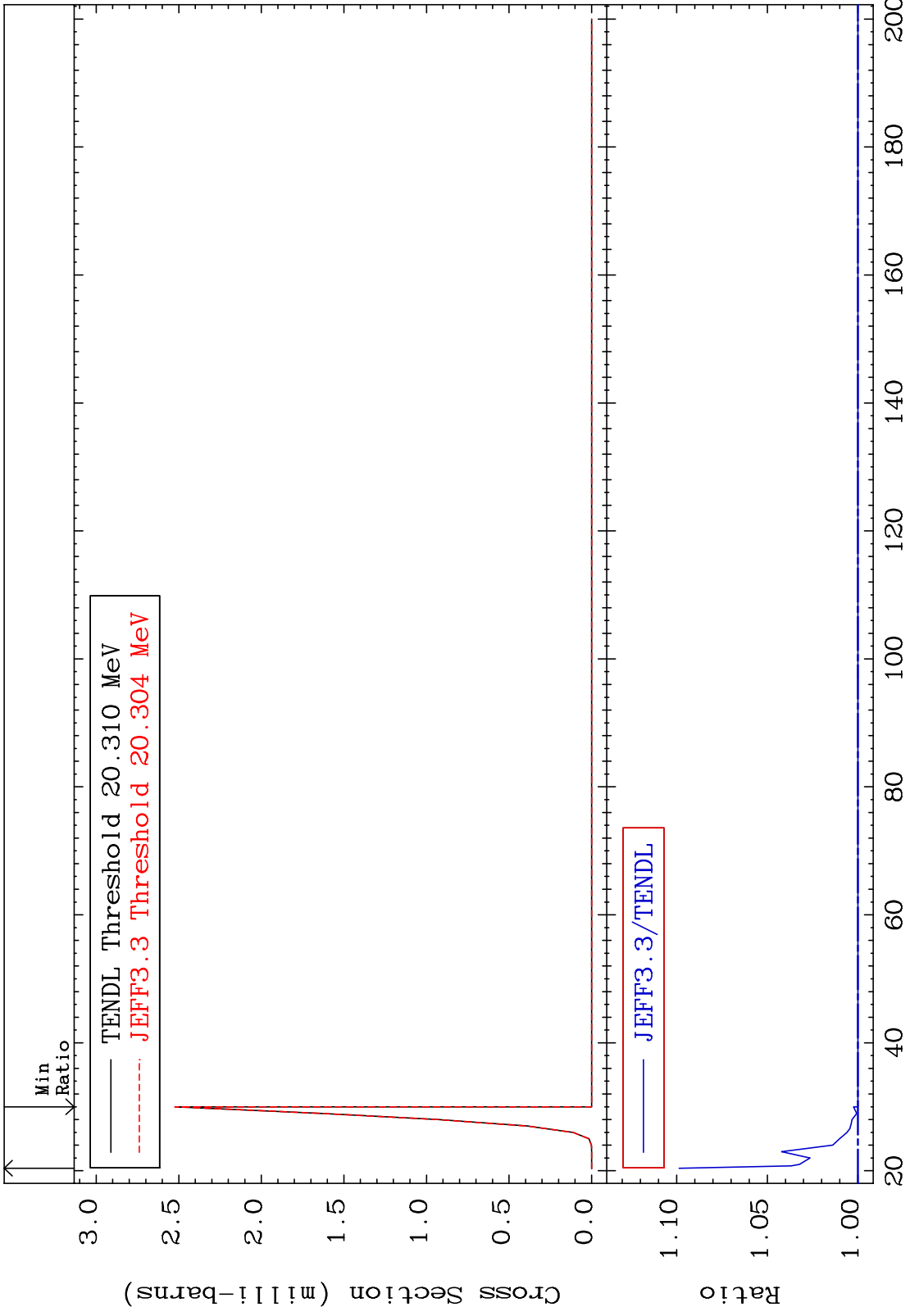
38-Sr-87

MAT 3834 (n,n') d 38-Sr-87
 Cross Section 0.000 To 4.519 %

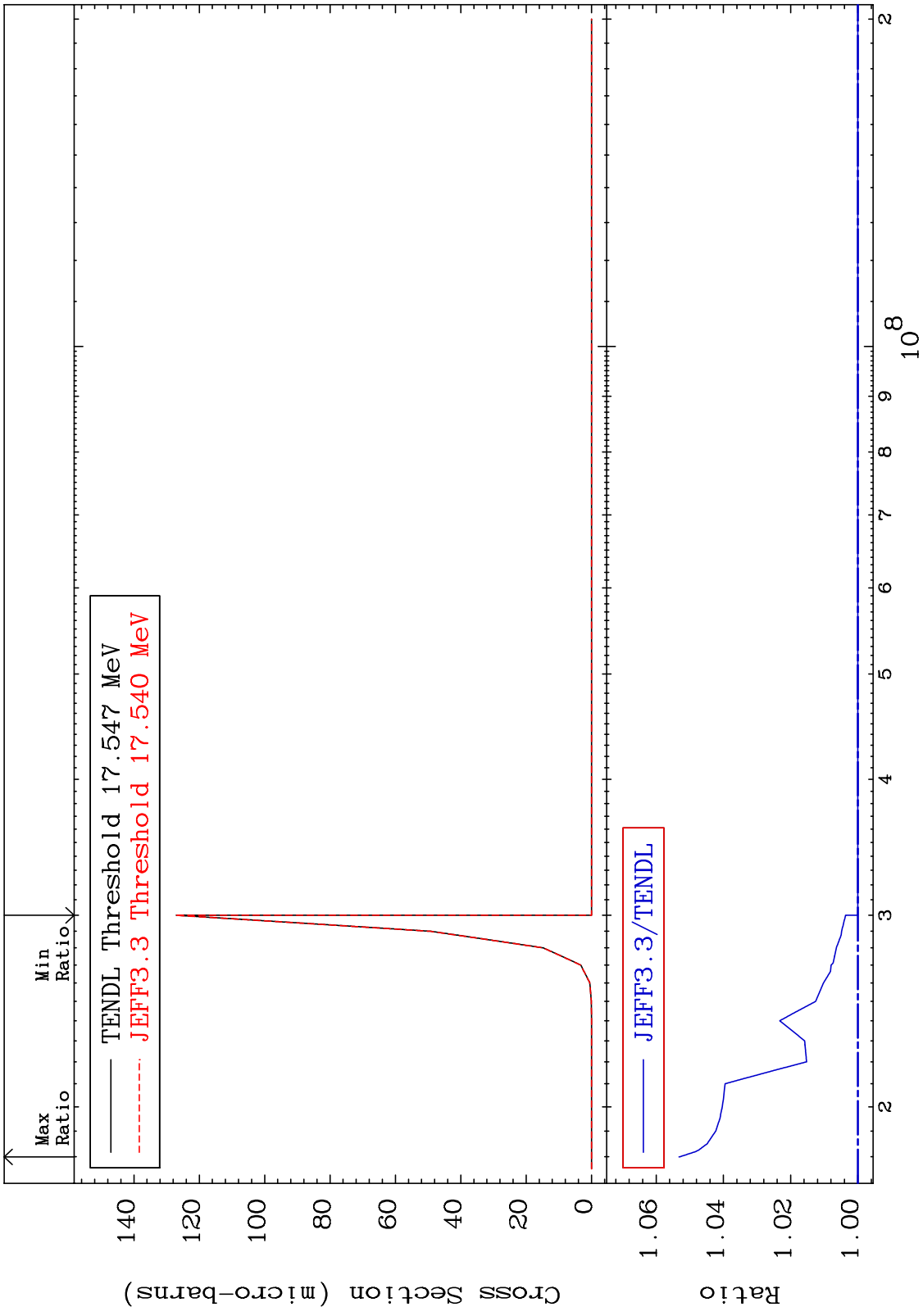


10 38-Sr-87

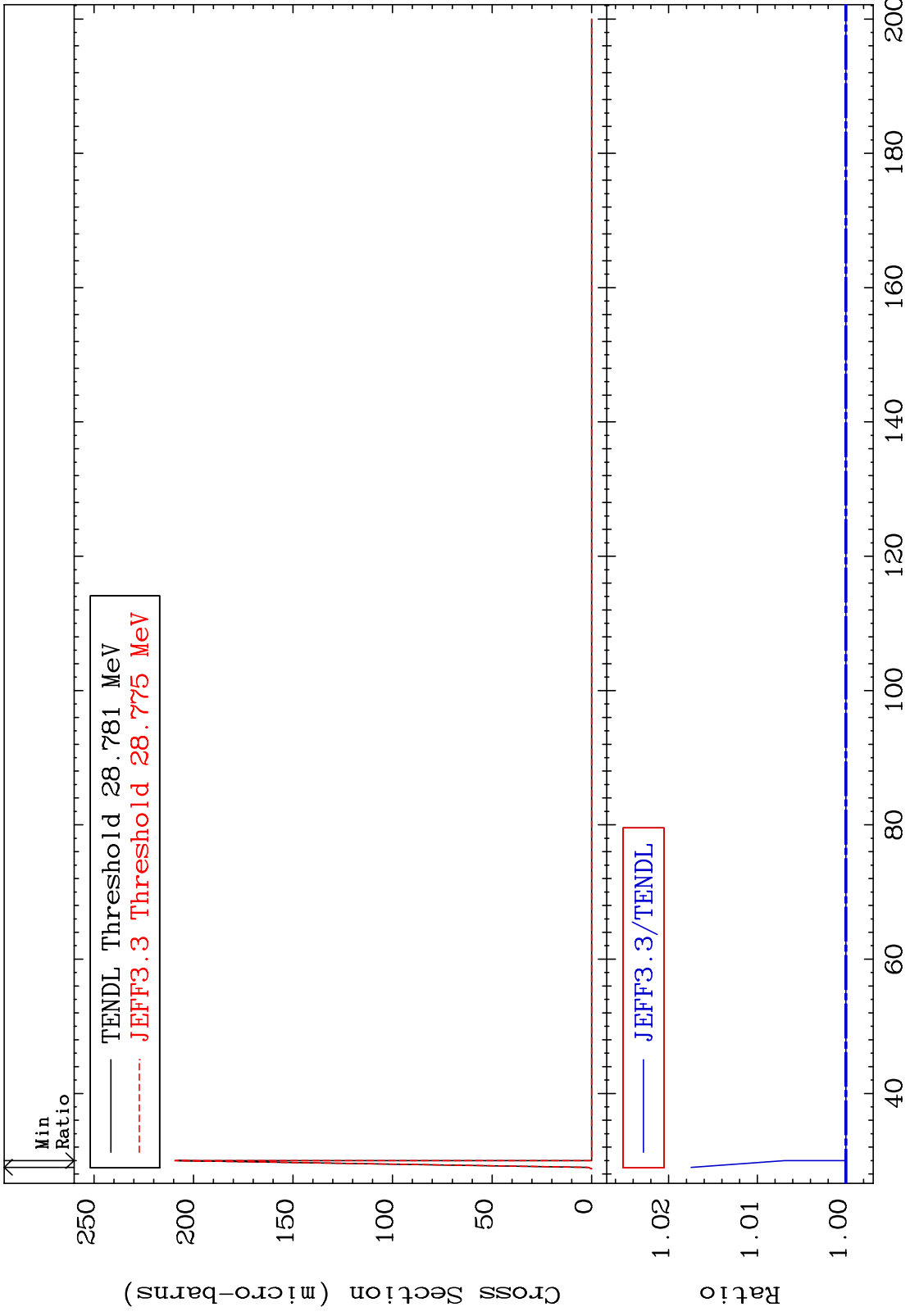
MAT 3834 (n,n') t 38-Sr-87
 Cross Section 0.000 To 9.865 %



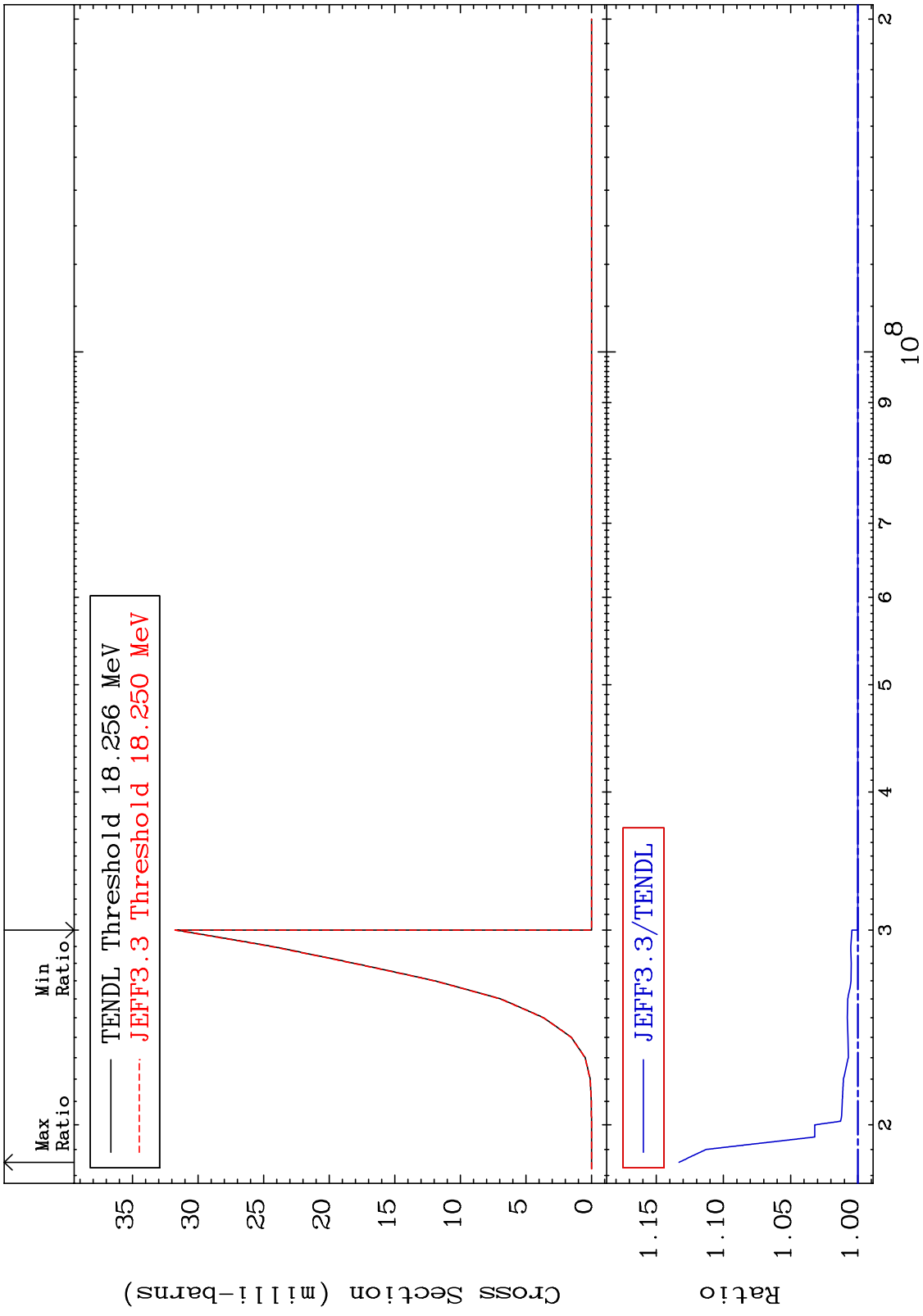
MAT 3834 (n, n') He-3 38-Sr-87
 Cross Section 0.000 To 5.319 %



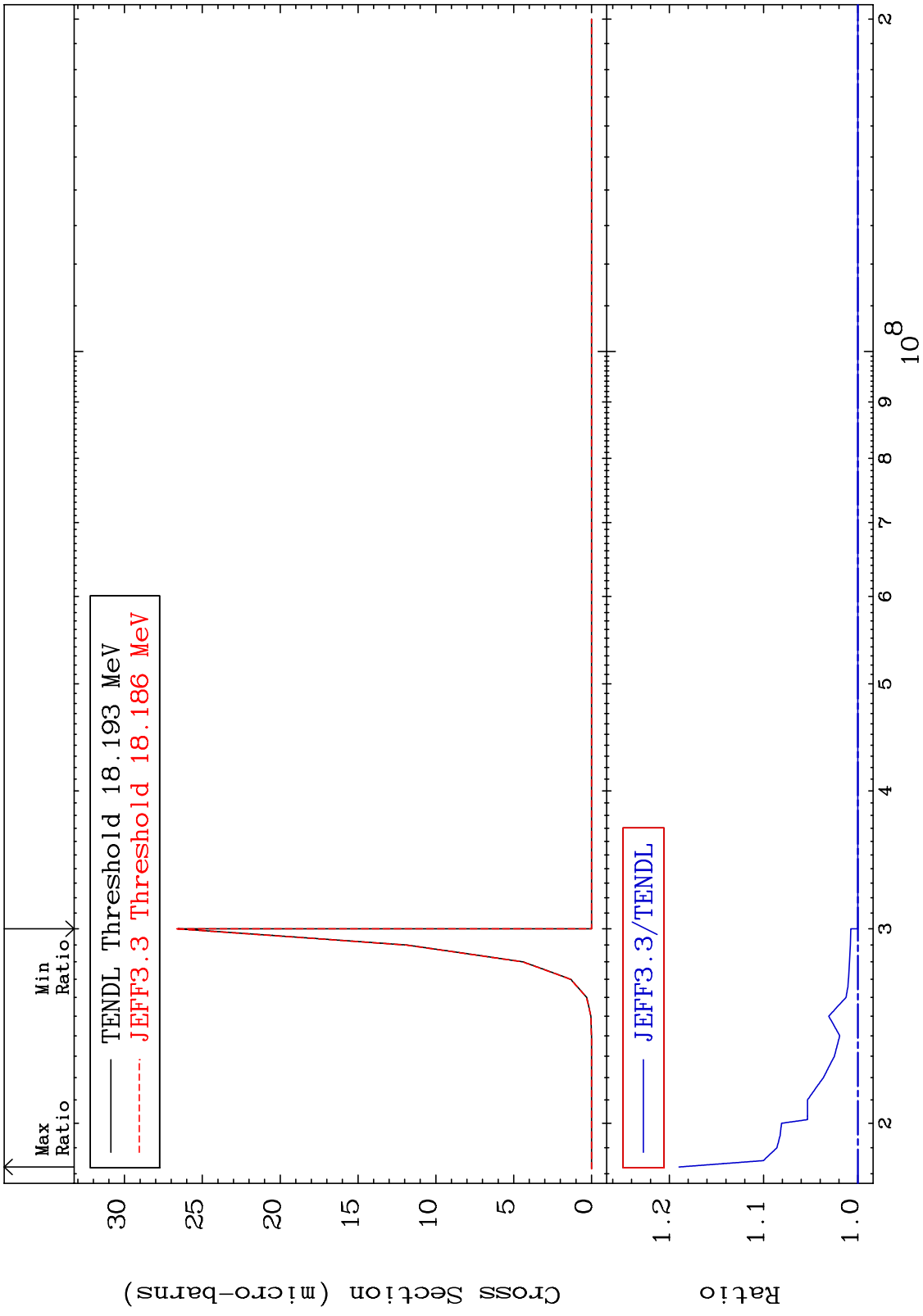
MAT 3834 (n,4n) Cross Section 38-Sr-87 To 1.746 %



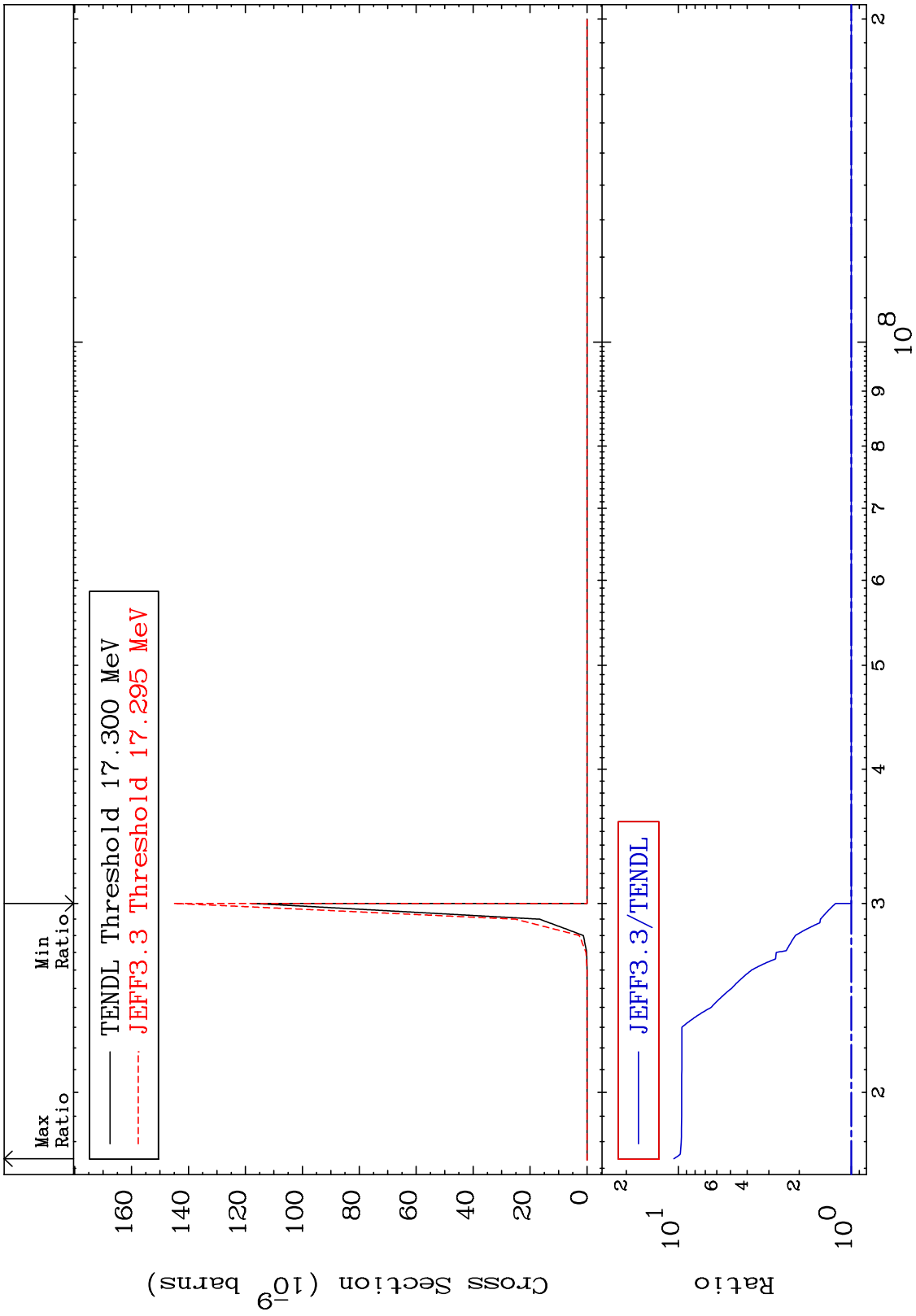
MAT 3834 (n,2n) p 38-Sr-87
 Cross Section 0.000 To 13.30 %



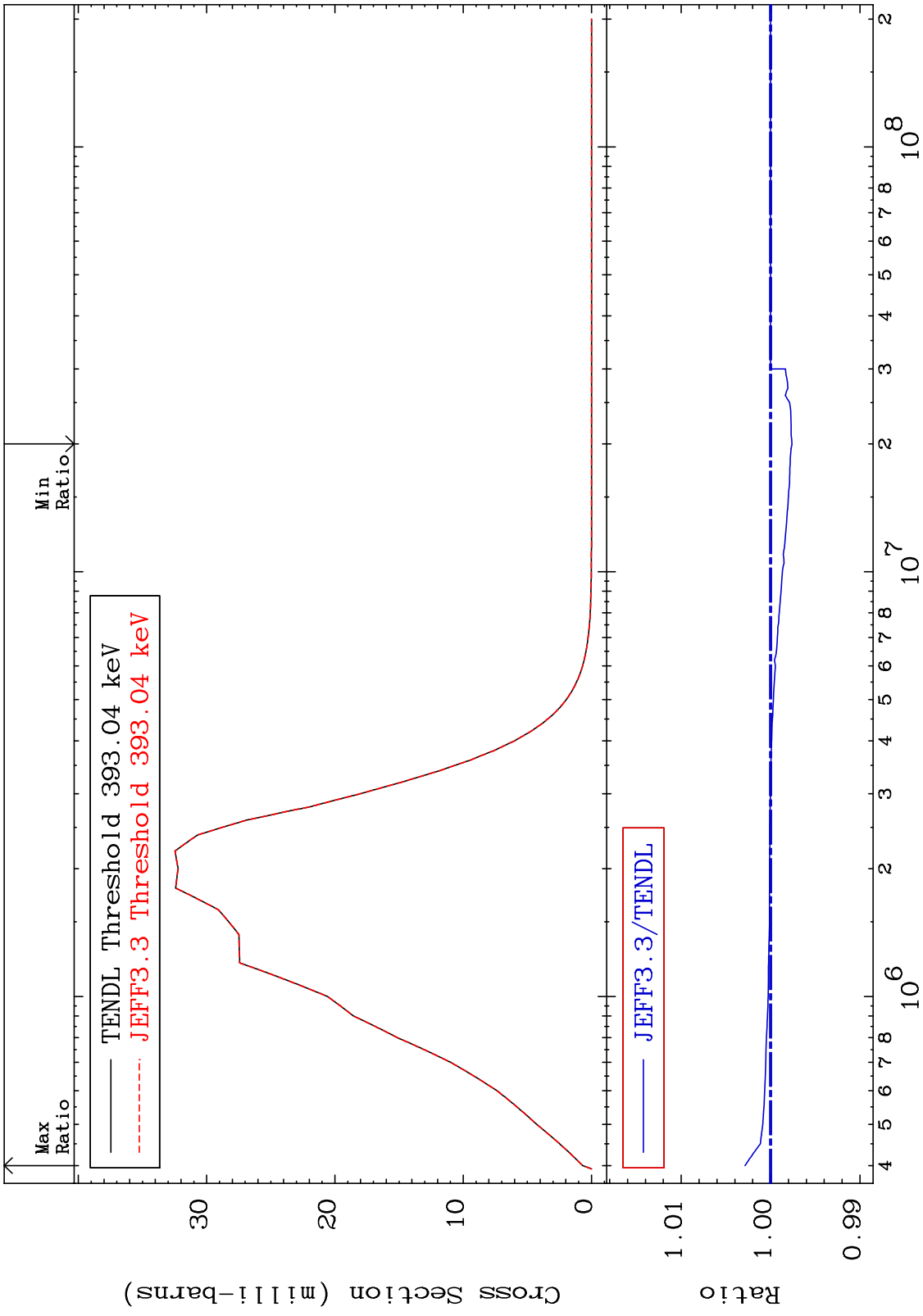
MAT 3834 (n,2n) p 38-Sr-87
 Cross Section 0.000 To 18.97 %



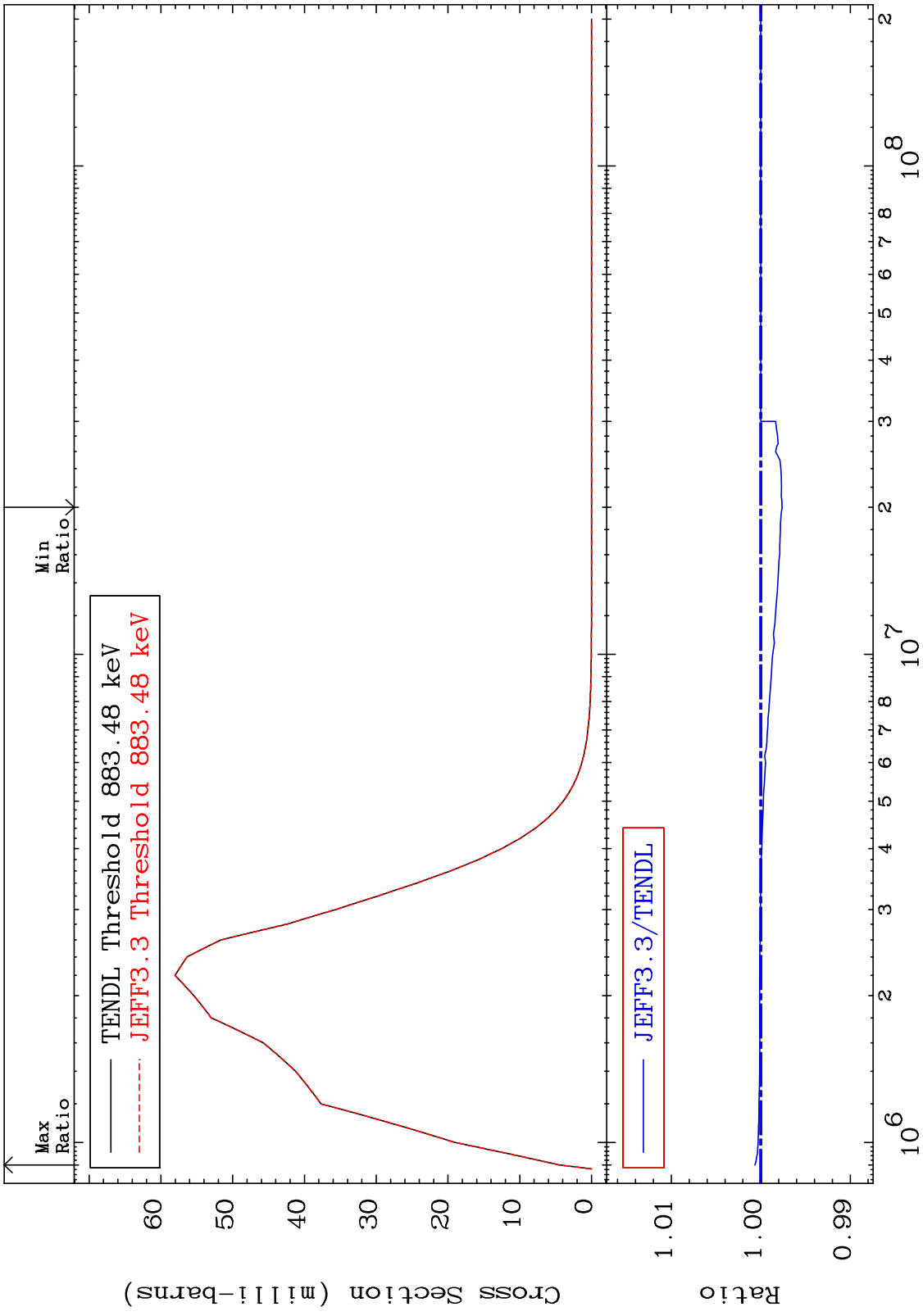
MAT 3834 (n,n') p α Cross Section 38-Sr-87 To 961.7 %



MAT 3834 MT= 51 (n,n') Level Cross Section -0.238 To 0.286 % 38-Sr-87

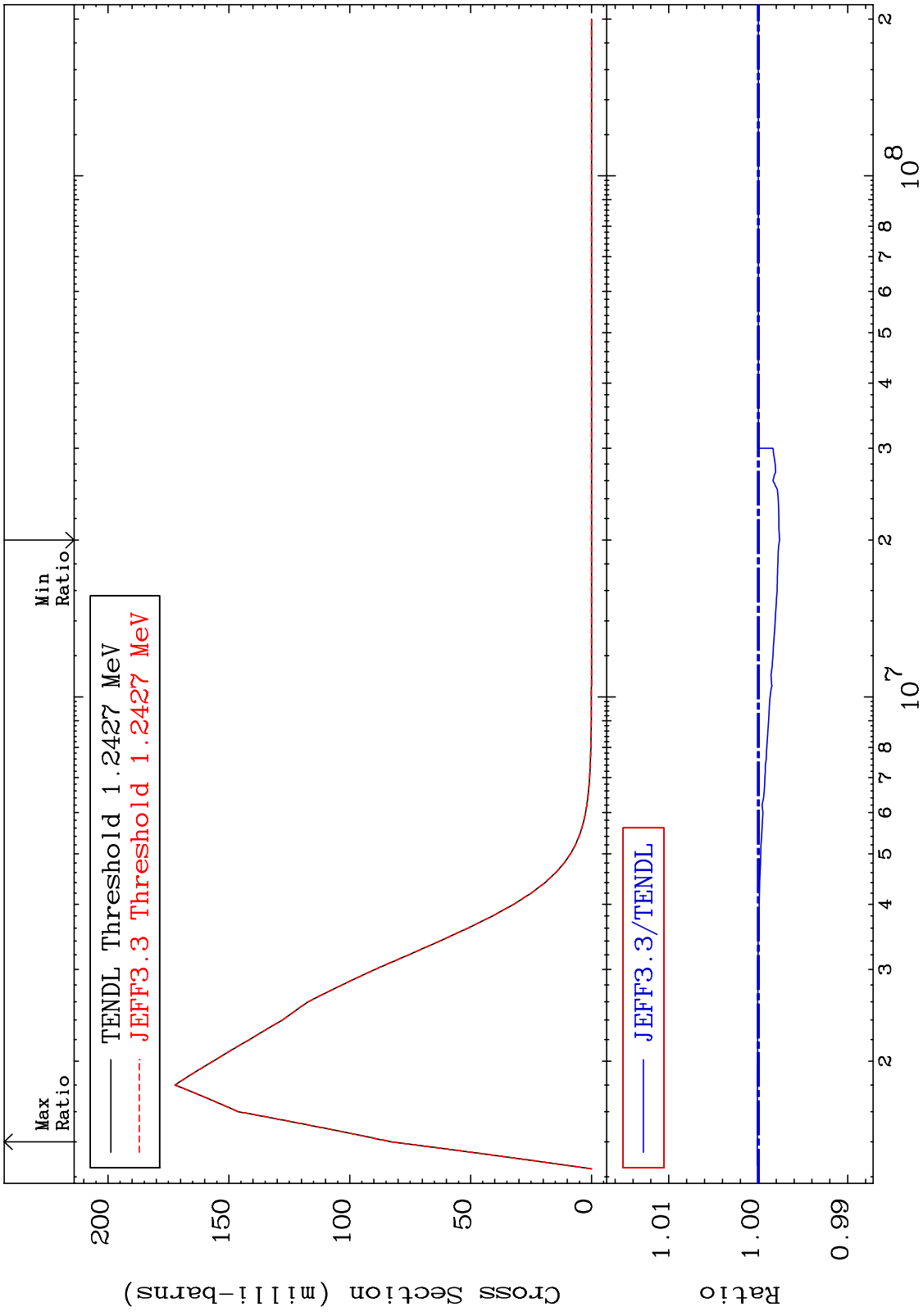


MAT 3834 MT= 52 (n,n') Level Cross Section 38-Sr-87
-0.238 To 0.067 %

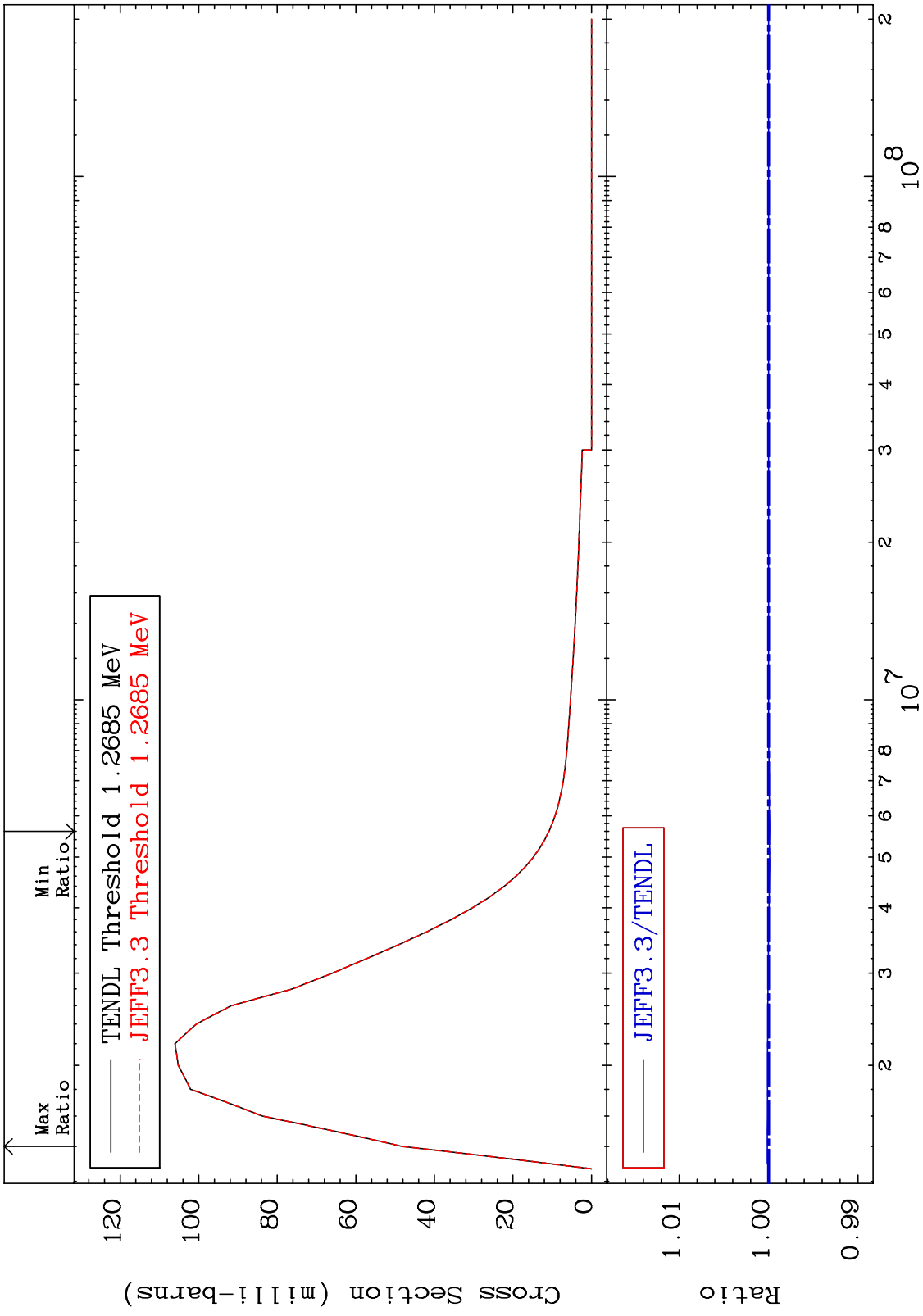


18 38-Sr-87

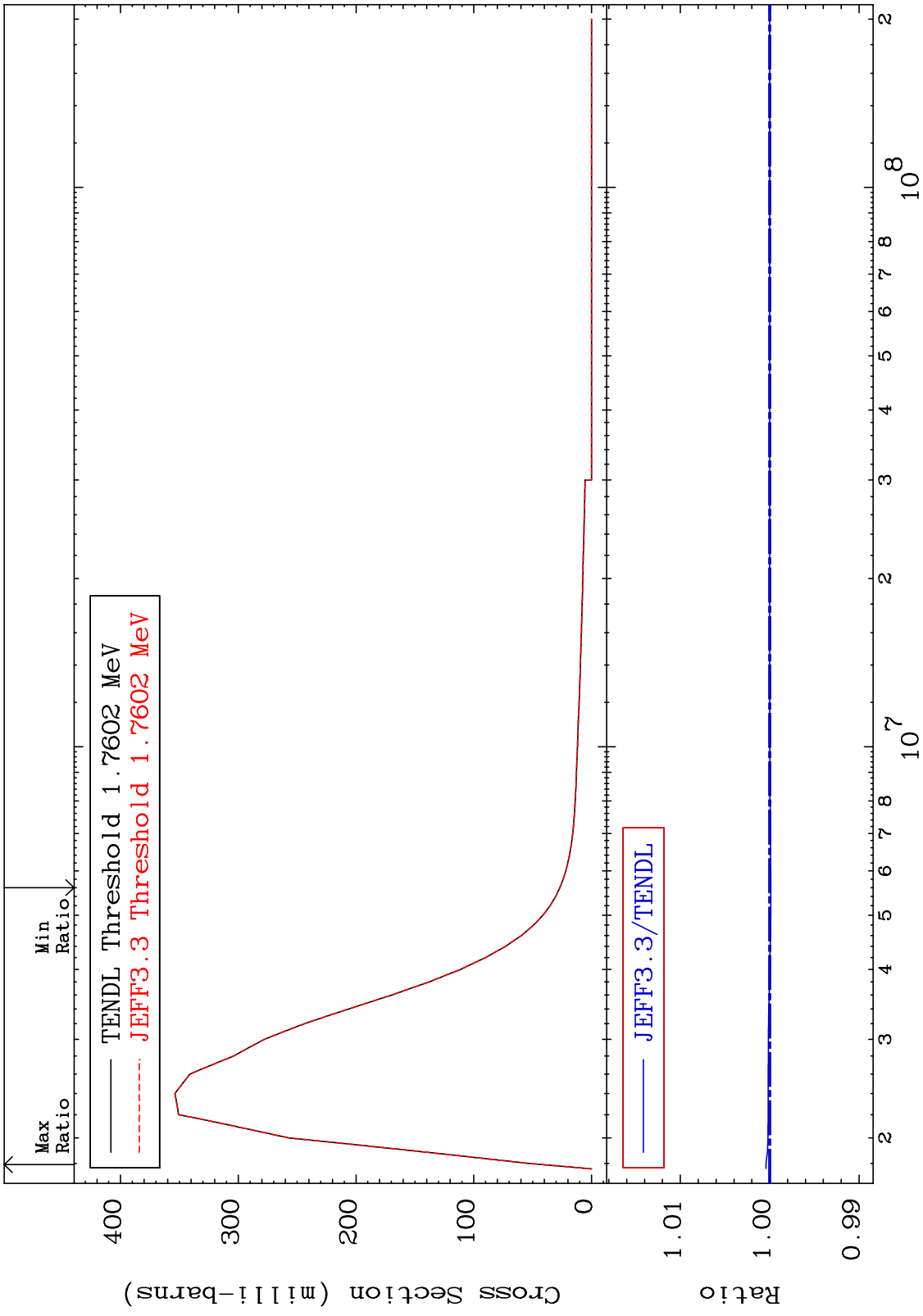
MAT 3834 MT= 53 (n, n') Level Cross Section 38-Sr-87
 -0.238 To 0.010 %



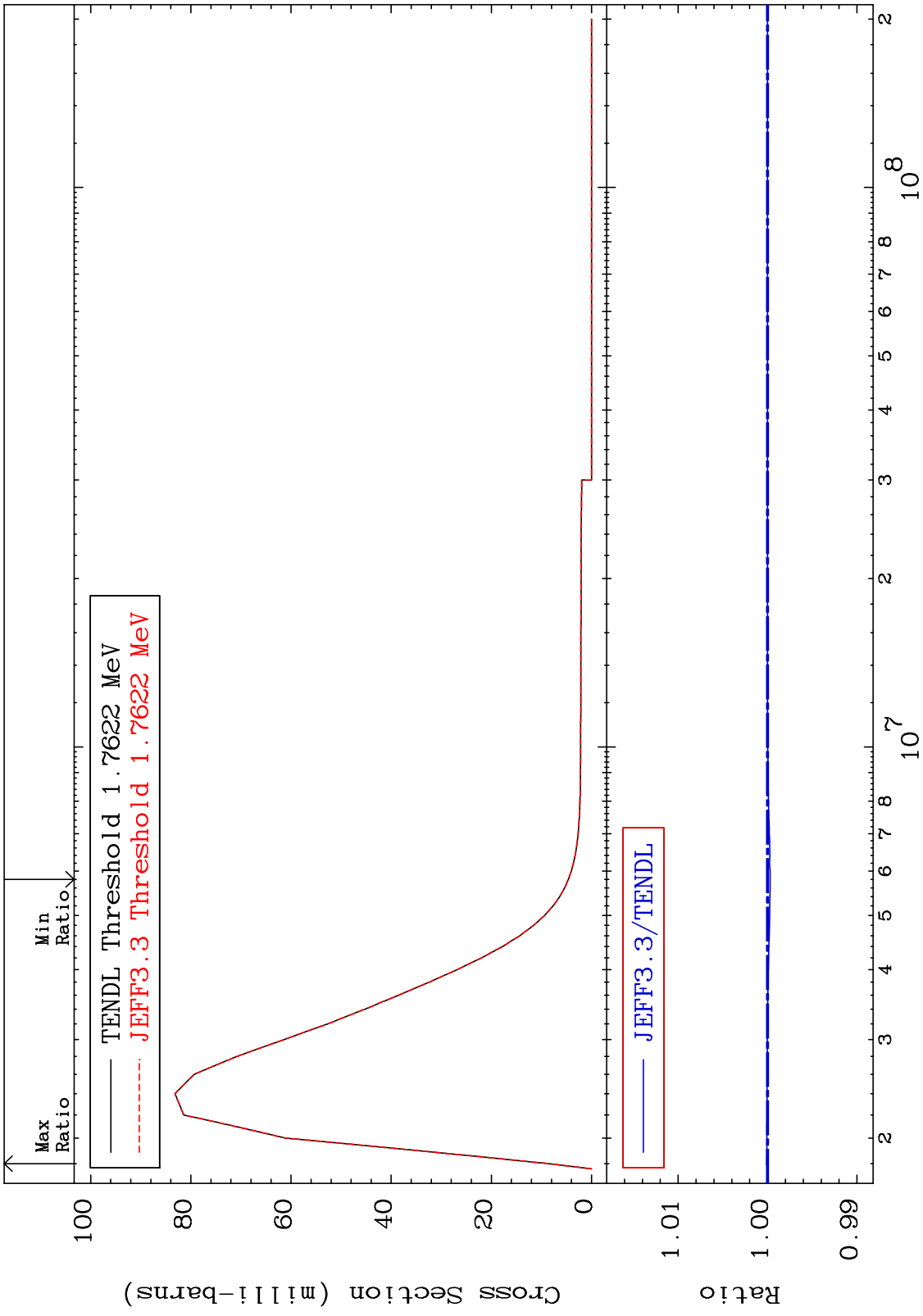
MAT 3834 MT= 54 (n,n') Level Cross Section 38-Sr-87
 -0.013 To 0.015 %



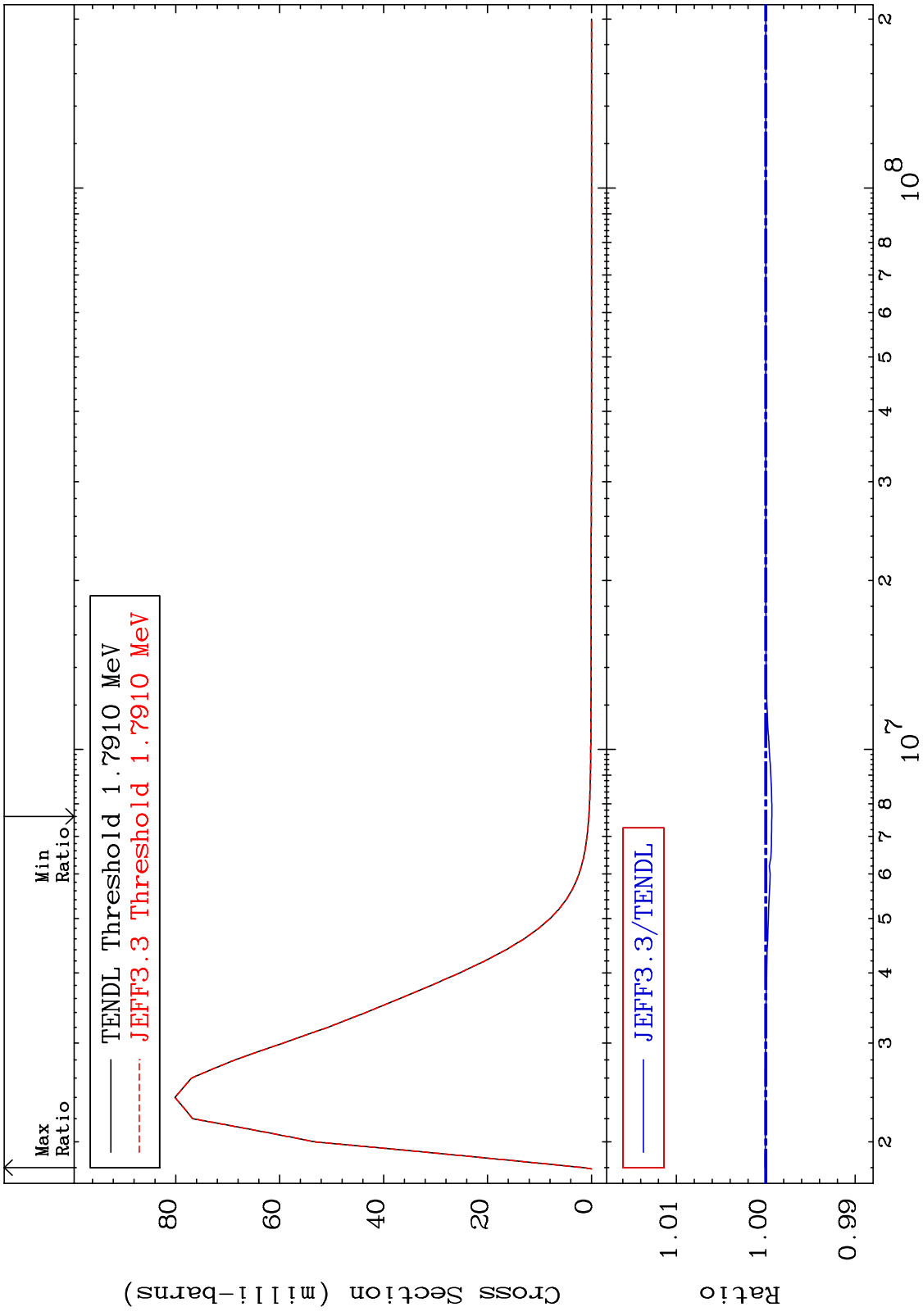
MAT 3834 MT= 55 (n,n') Level Cross Section 38-Sr-87
 -0.013 To 0.041 %

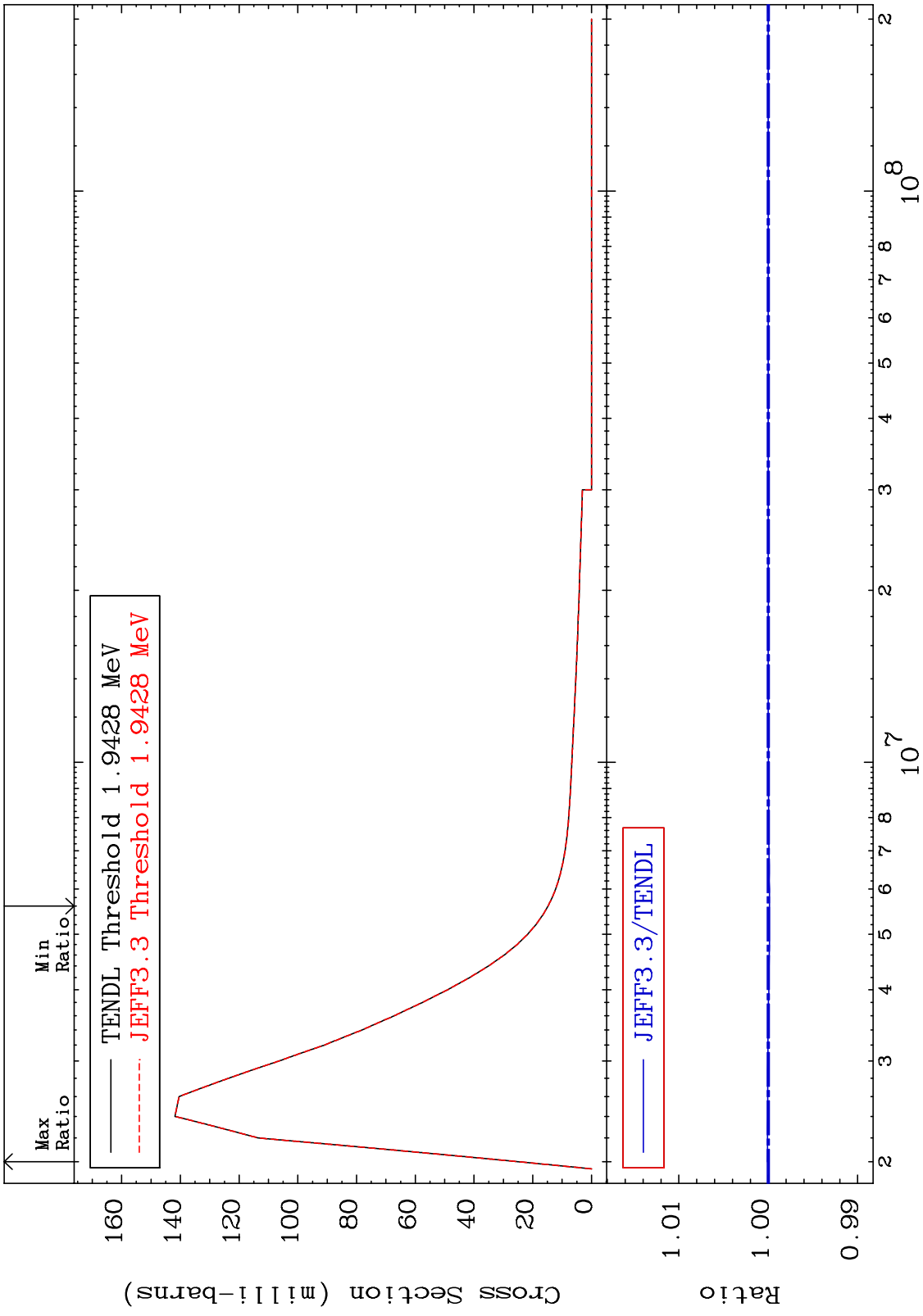


MAT 3834 MT= 56 (n,n') Level Cross Section 38-Sr-87
 -0.030 To 0.010 %

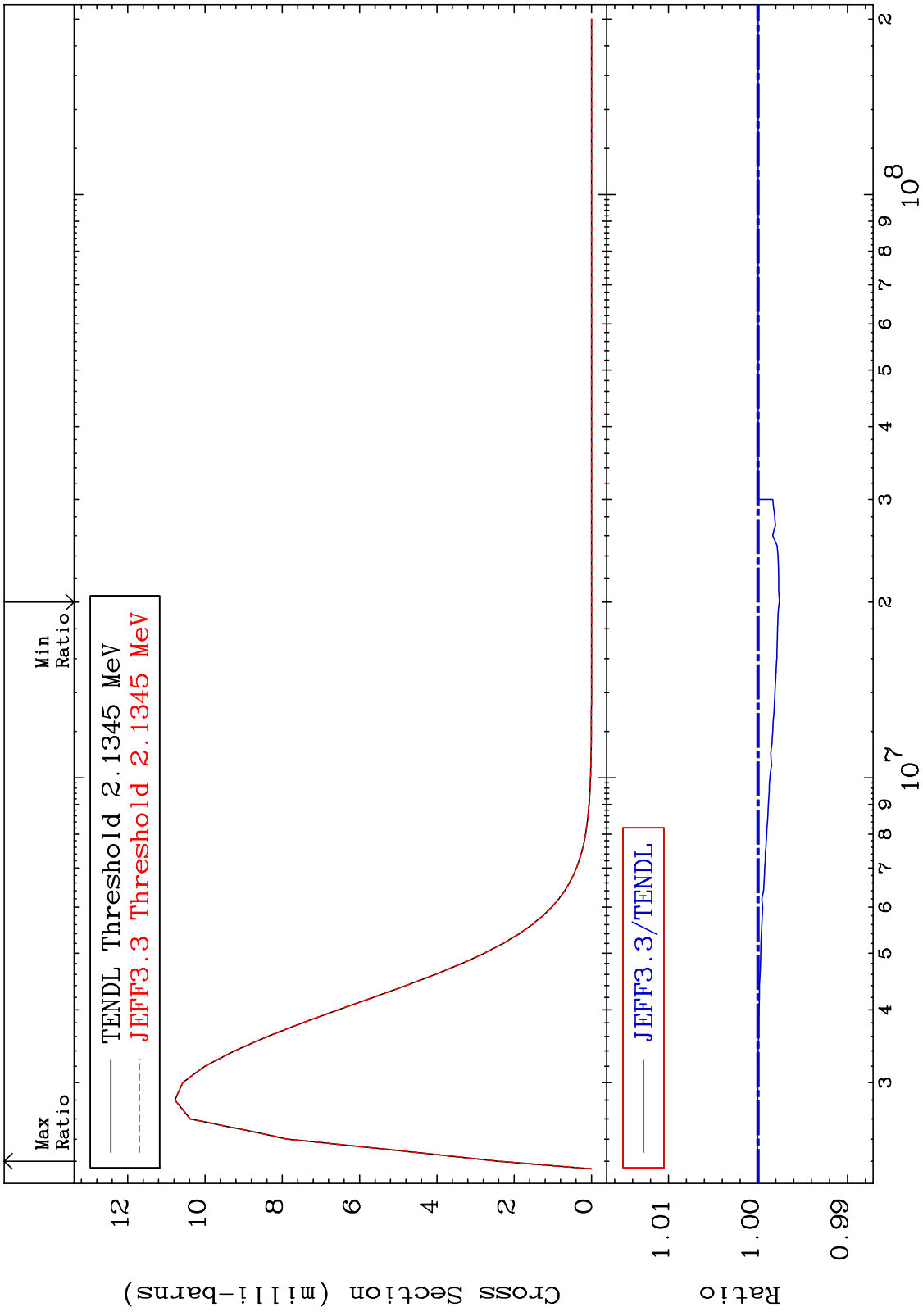


MAT 3834 MT= 57 (n,n') Level Cross Section 38-Sr-87
 -0.067 To 0.009 %

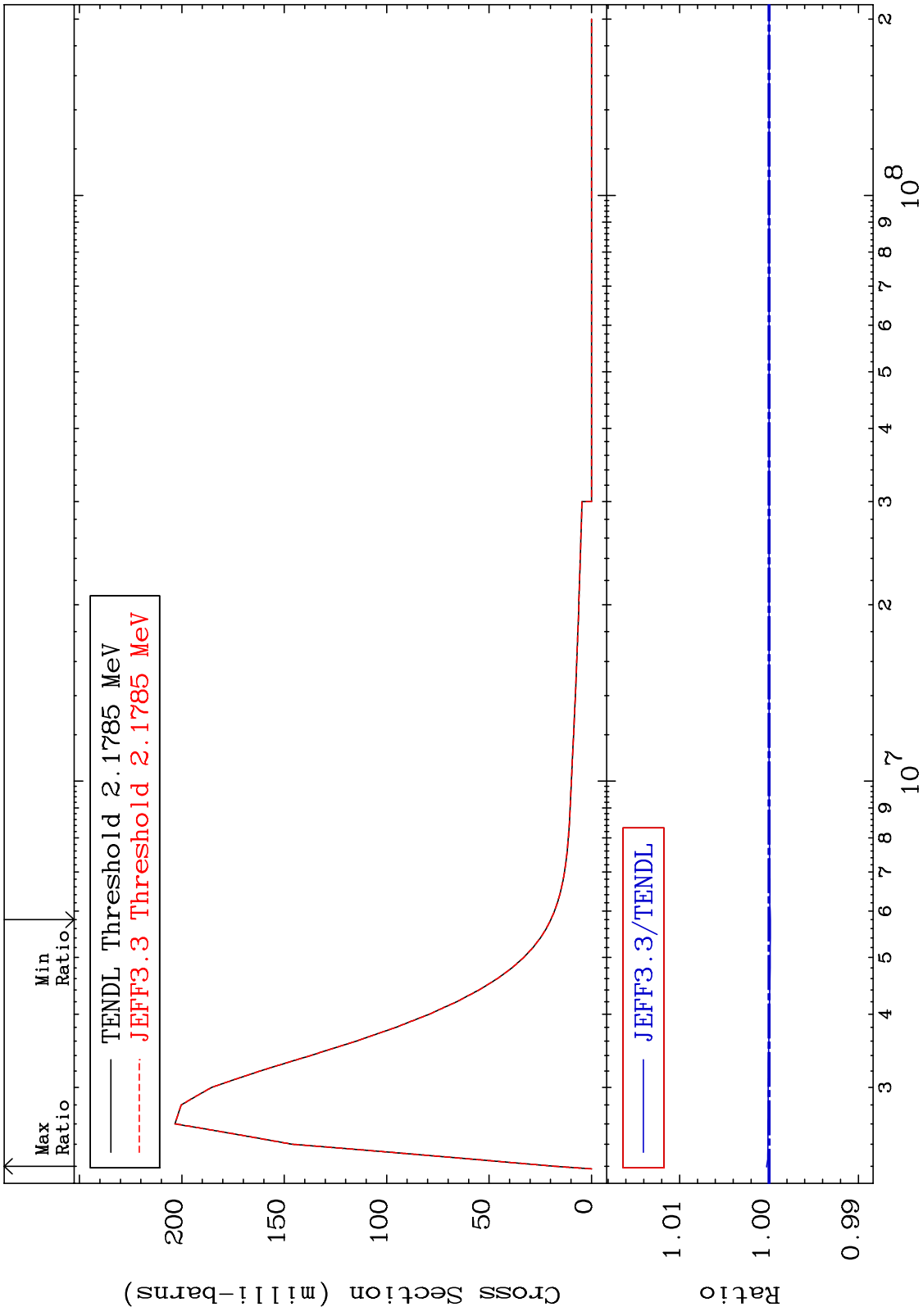




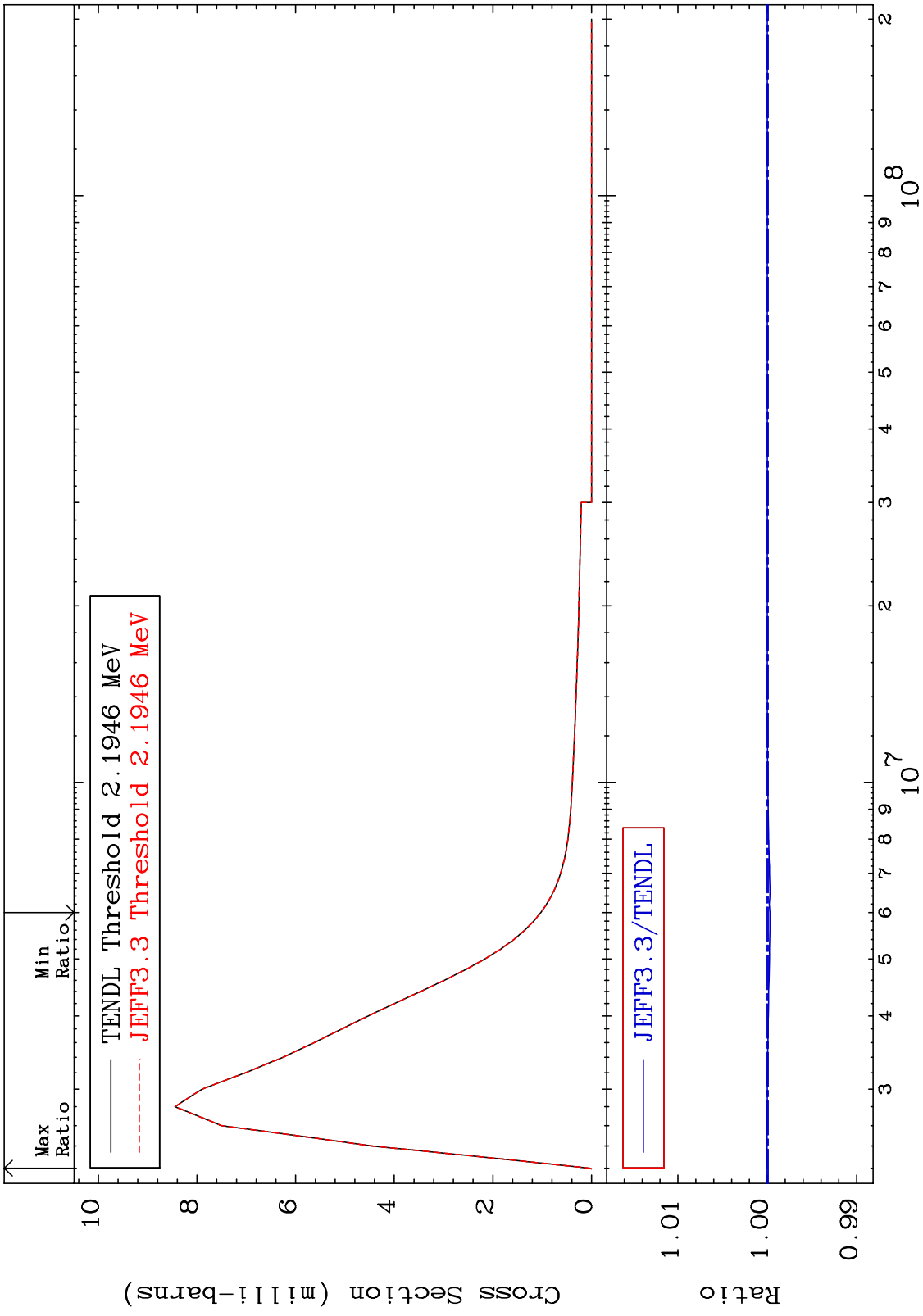
MAT 3834 MT= 59 (n,n') Level Cross Section 38-Sr-87
 -0.238 To 0.005 %



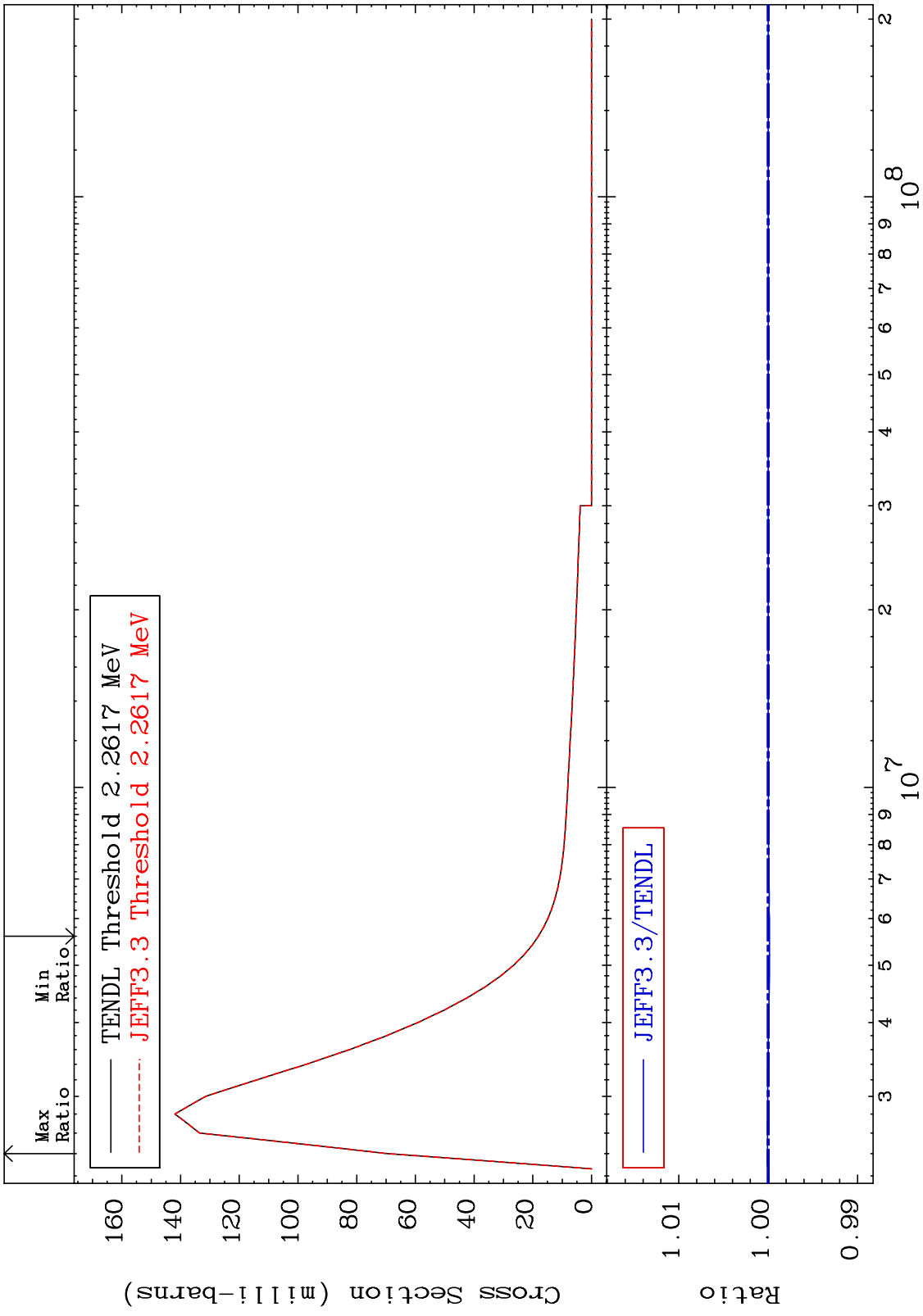
MAT 3834 MT= 60 (n,n') Level Cross Section 38-Sr-87
 -0.014 To 0.026 %



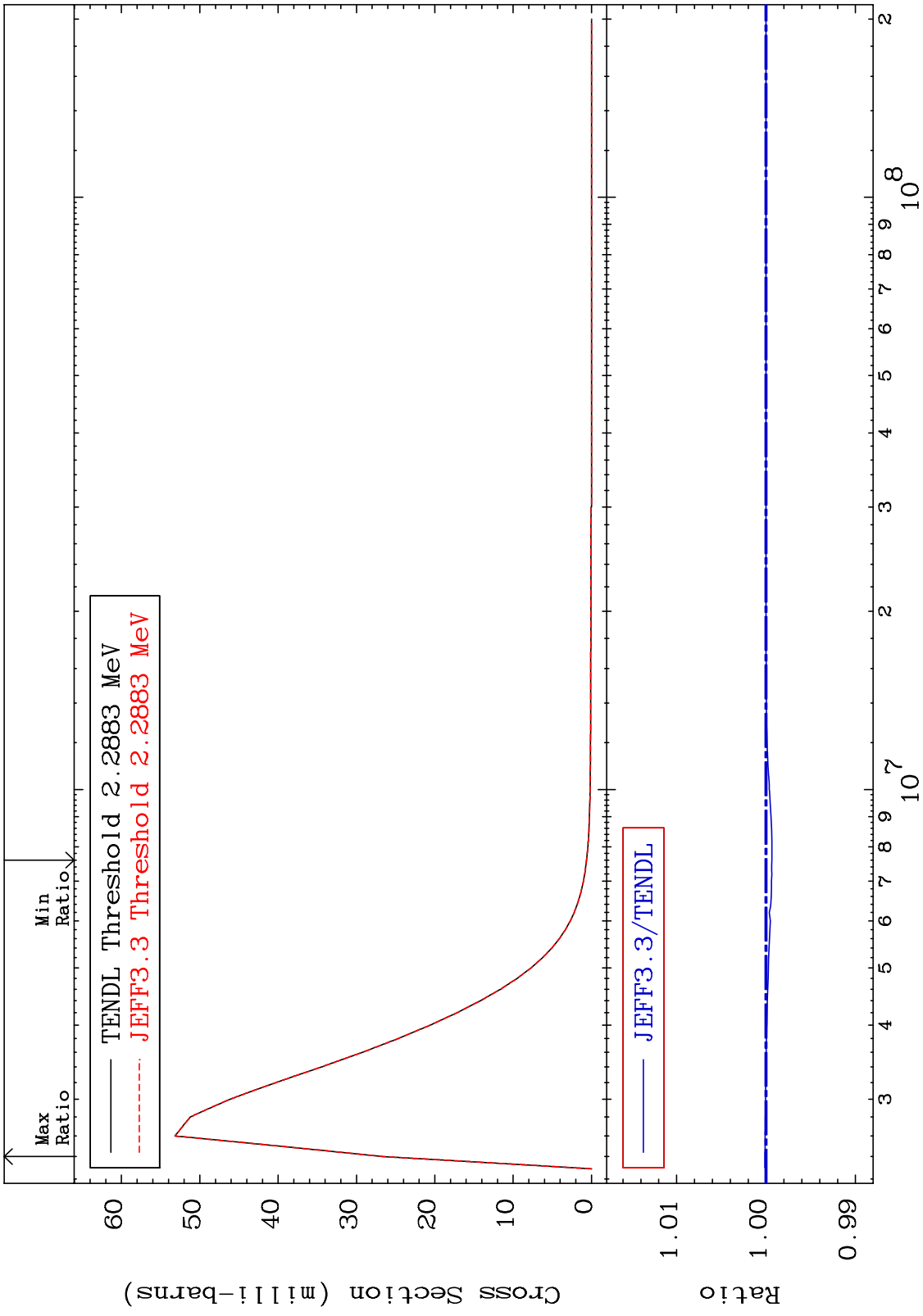
MAT 3834 MT= 61 (n,n') Level Cross Section 38-Sr-87
 -0.030 To 0.005 %



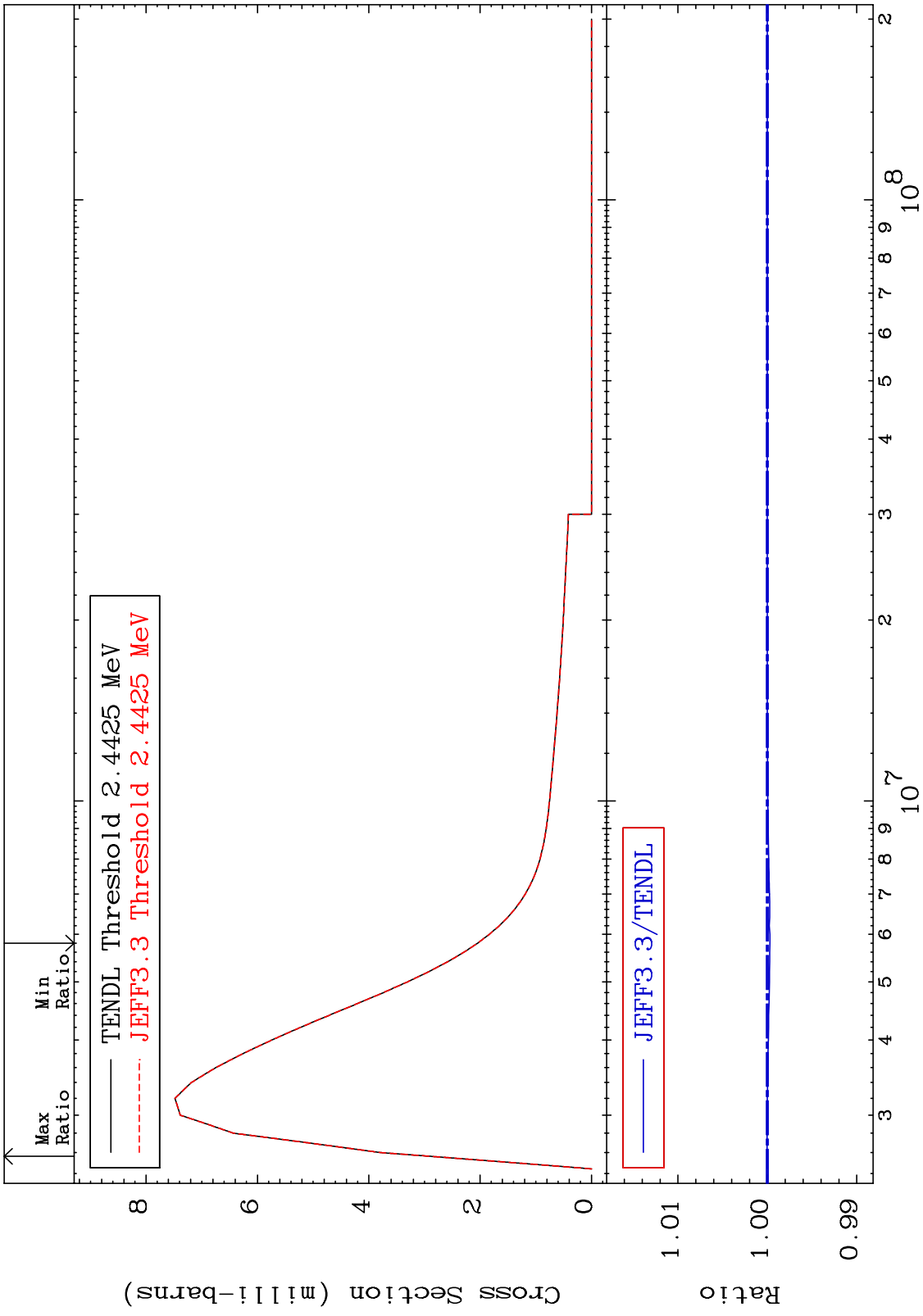
MAT 3834 MT= 62 (n,n') Level Cross Section 38-Sr-87
 -0.015 To 0.010 %



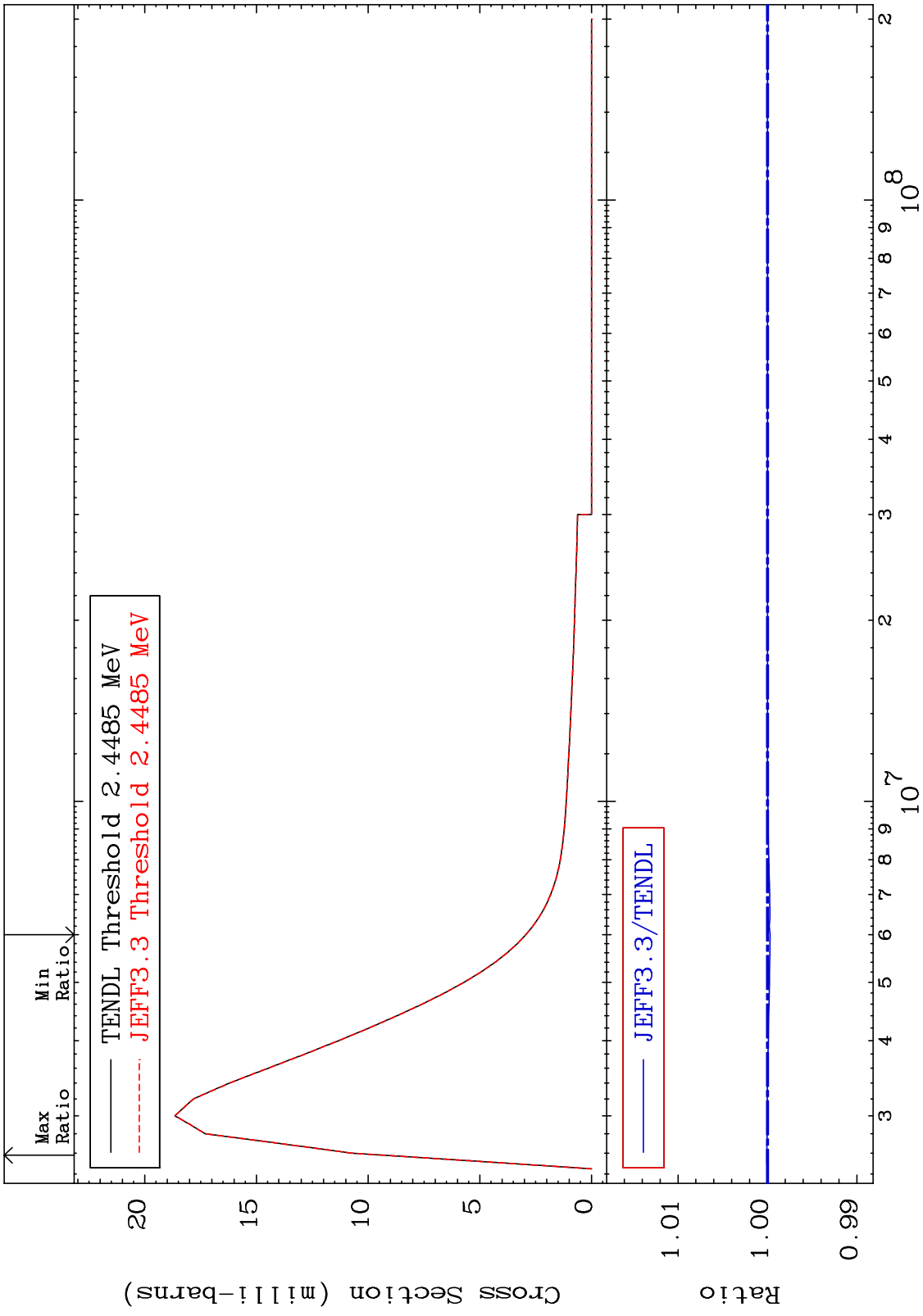
MAT 3834 MT= 63 (n,n') Level Cross Section 38-Sr-87
 -0.066 To 0.013 %



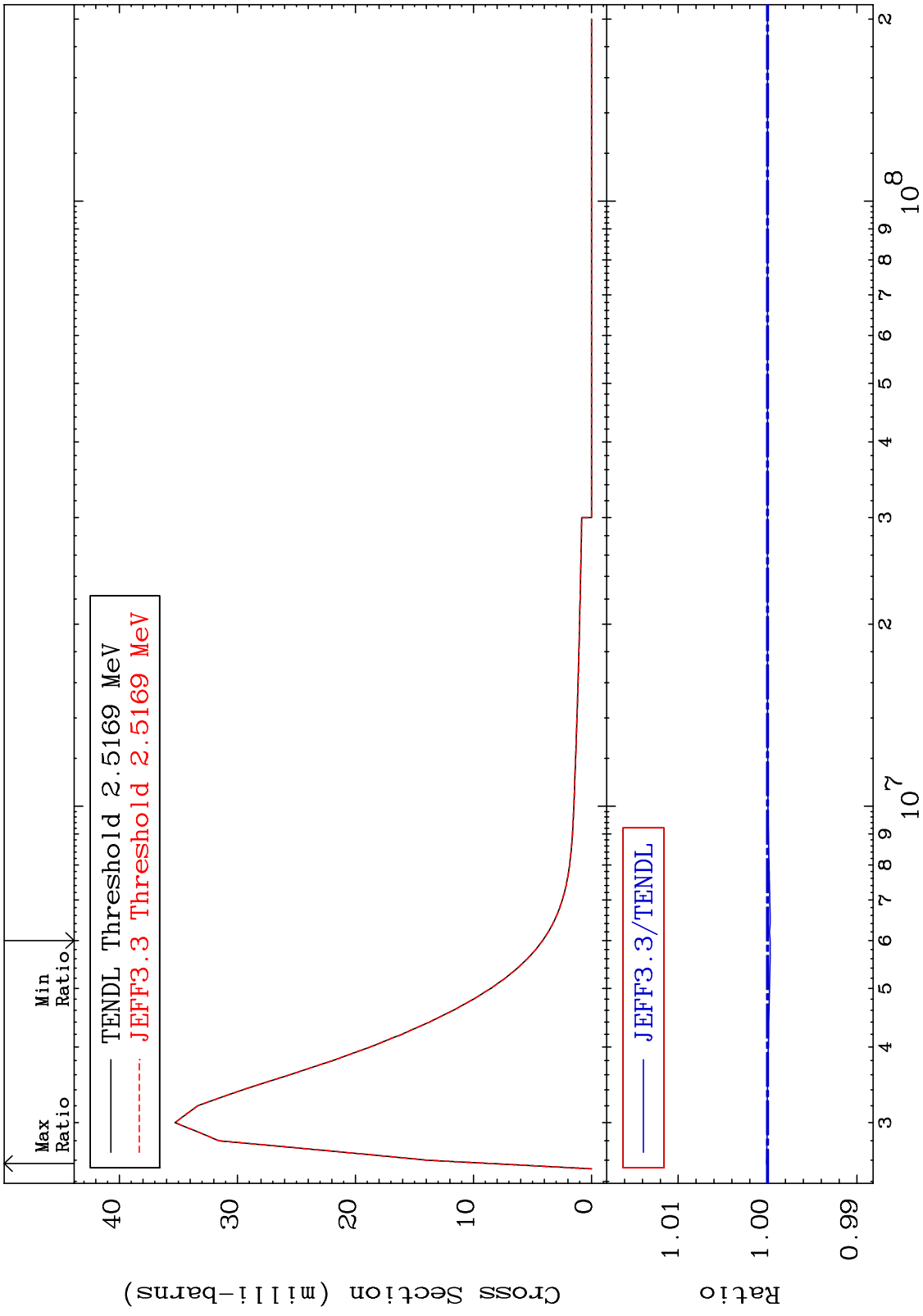
MAT 3834 MT= 64 (n,n') Level Cross Section 38-Sr-87
 -0.028 To 0.004 %



MAT 3834 MT= 65 (n,n') Level Cross Section 38-Sr-87
 -0.029 To 0.007 %



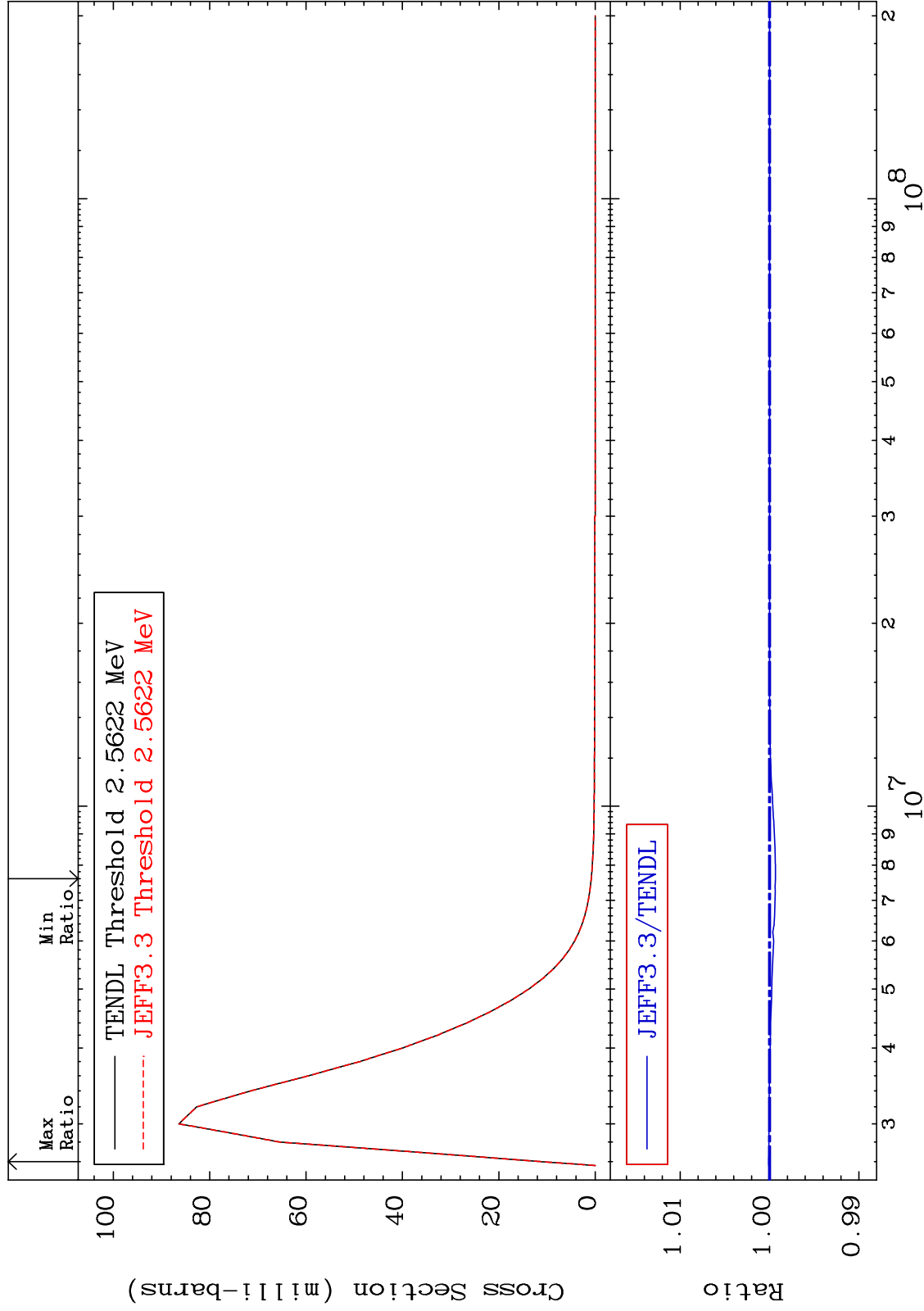
MAT 3834 MT= 66 (n,n') Level Cross Section 38-Sr-87
 -0.029 To 0.010 %



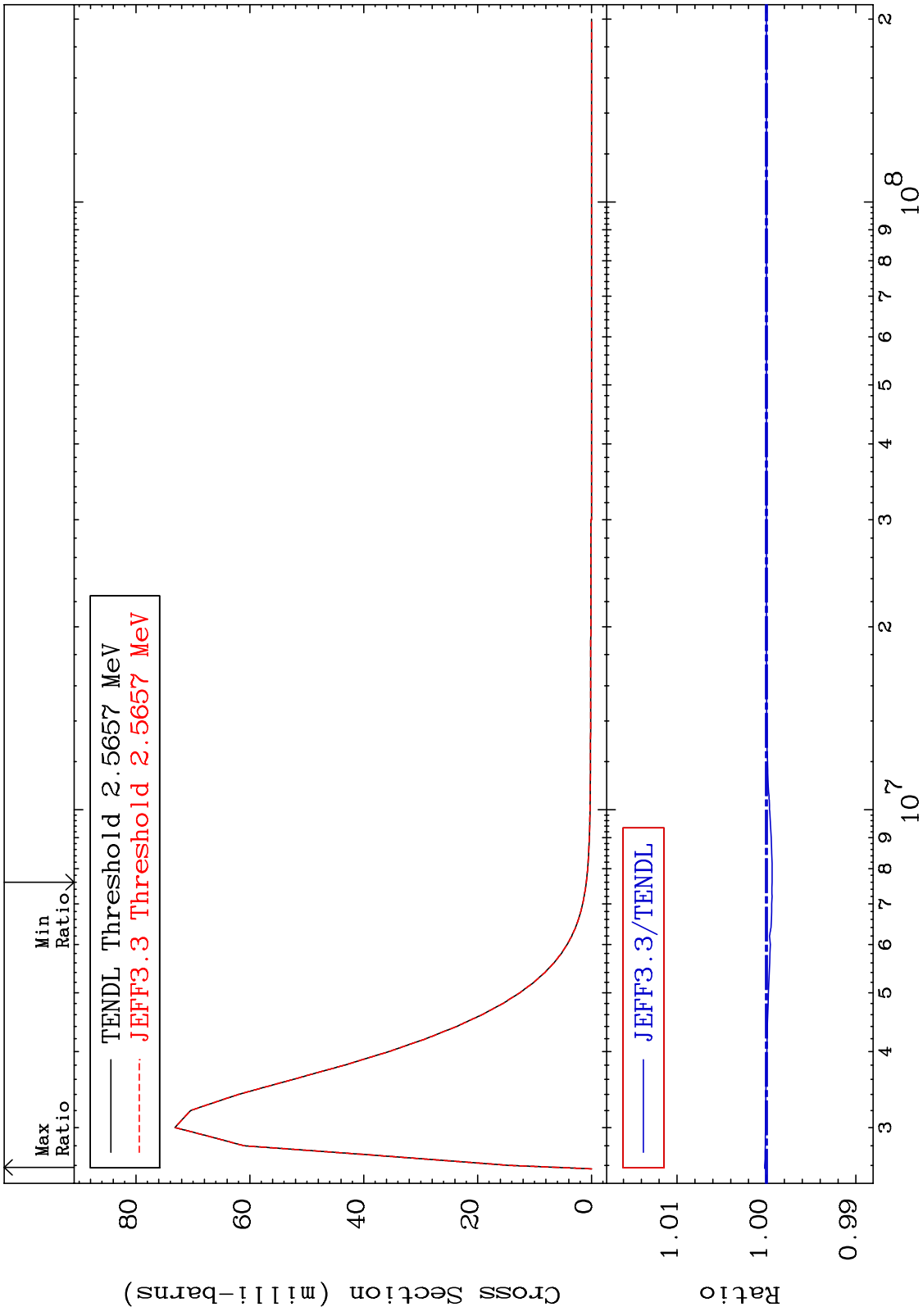
MAT 3834

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

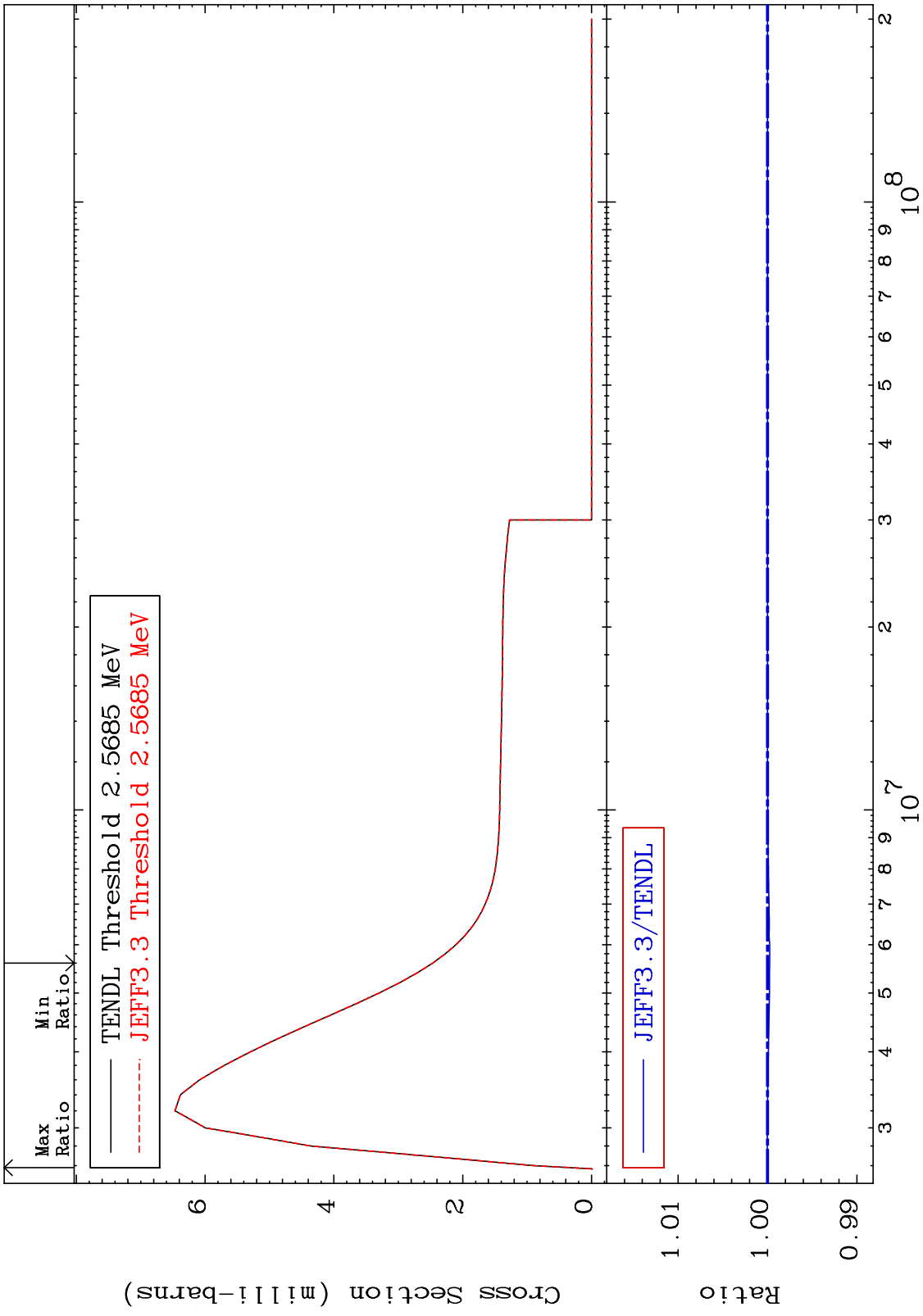
38-Sr-87
-0.066 To 0.011 %



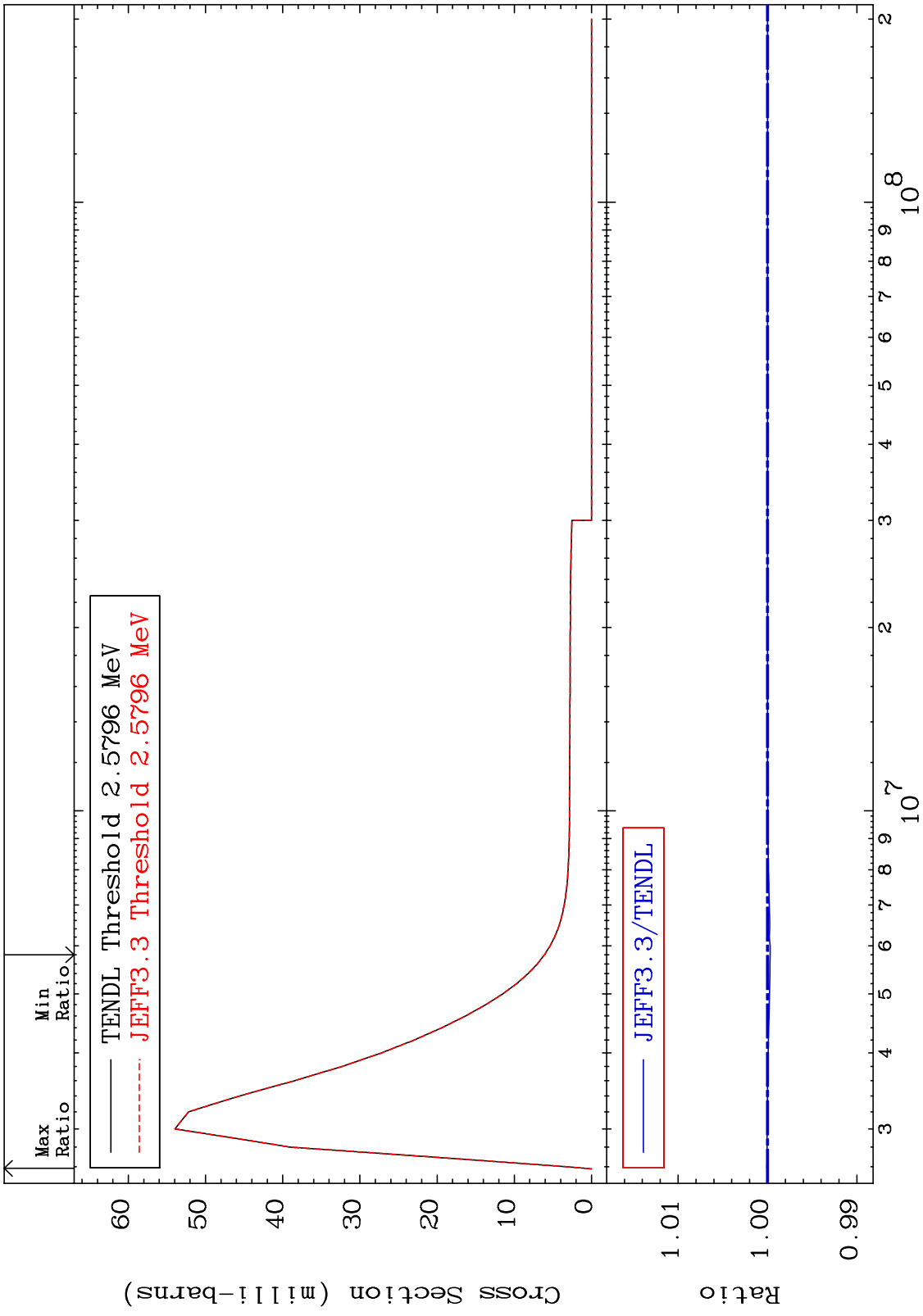
MAT 3834 MT= 68 (n,n') Level Cross Section 38-Sr-87
 -0.064 To 0.020 %



MAT 3834 MT= 69 (n,n') Level Cross Section 38-Sr-87
 -0.024 To 0.003 %



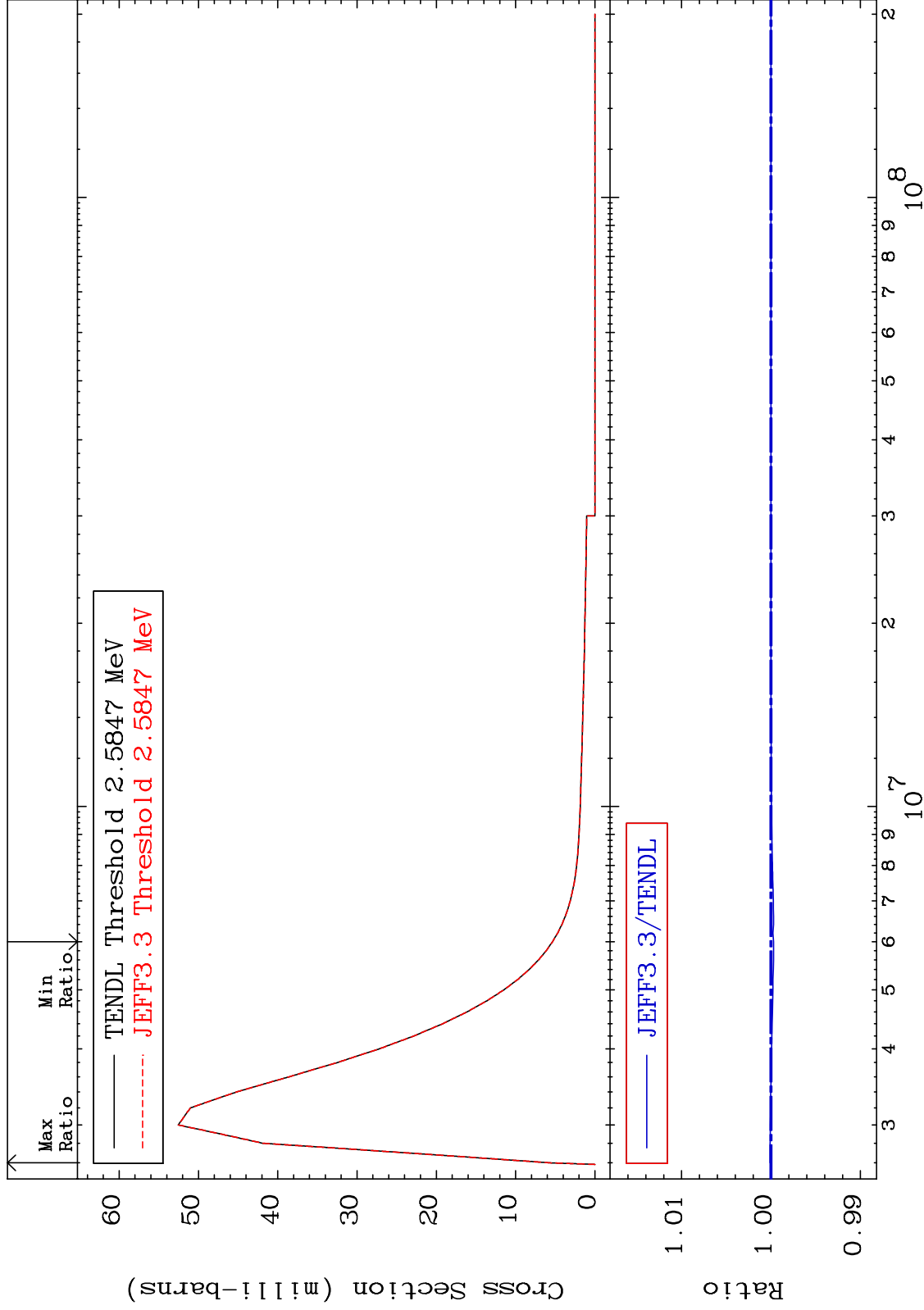
MAT 3834 MT= 70 (n,n') Level Cross Section 38-Sr-87
 -0.028 To 0.008 %



MAT 3834

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

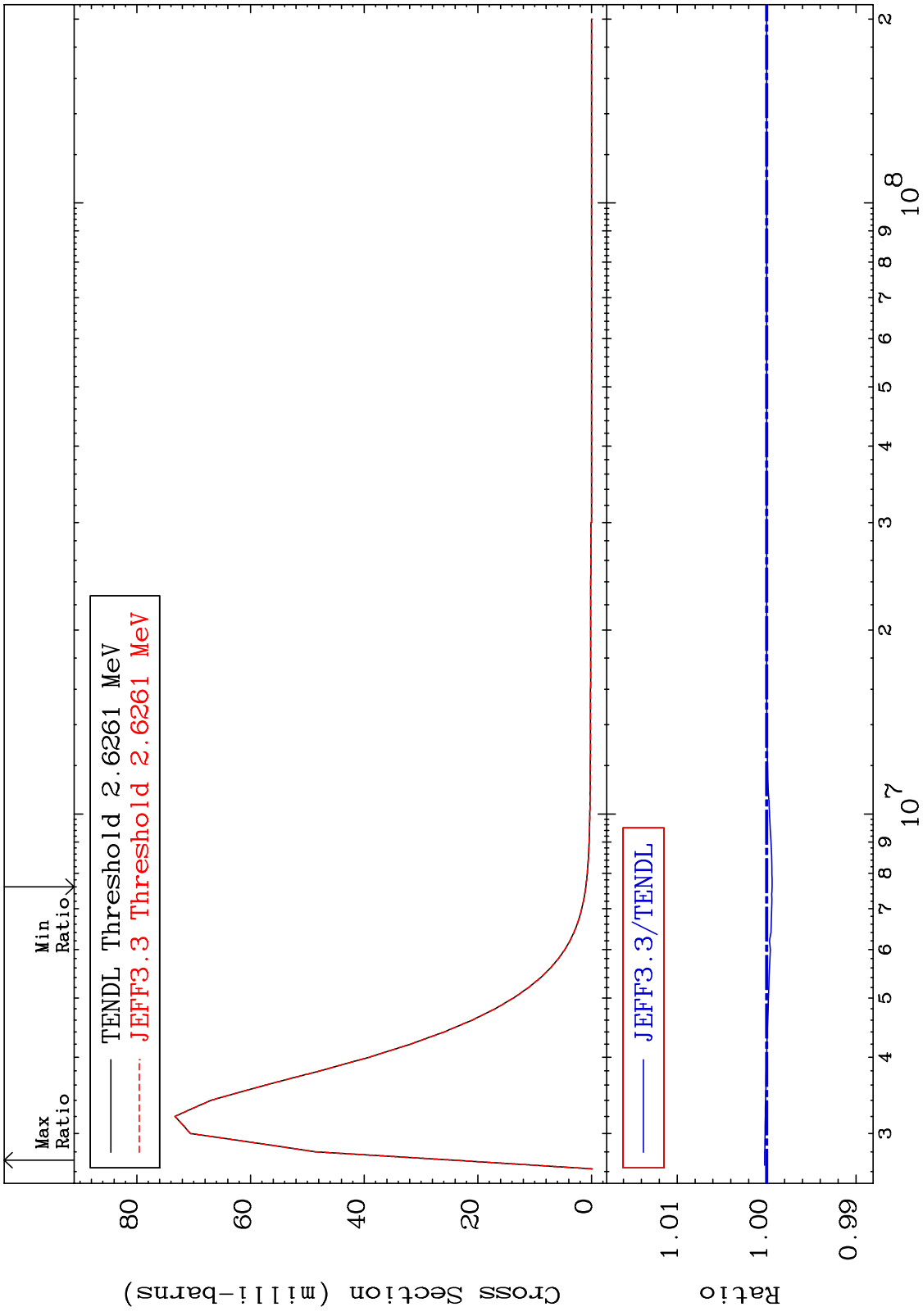
38-Sr-87
-0.029 To 0.010 %



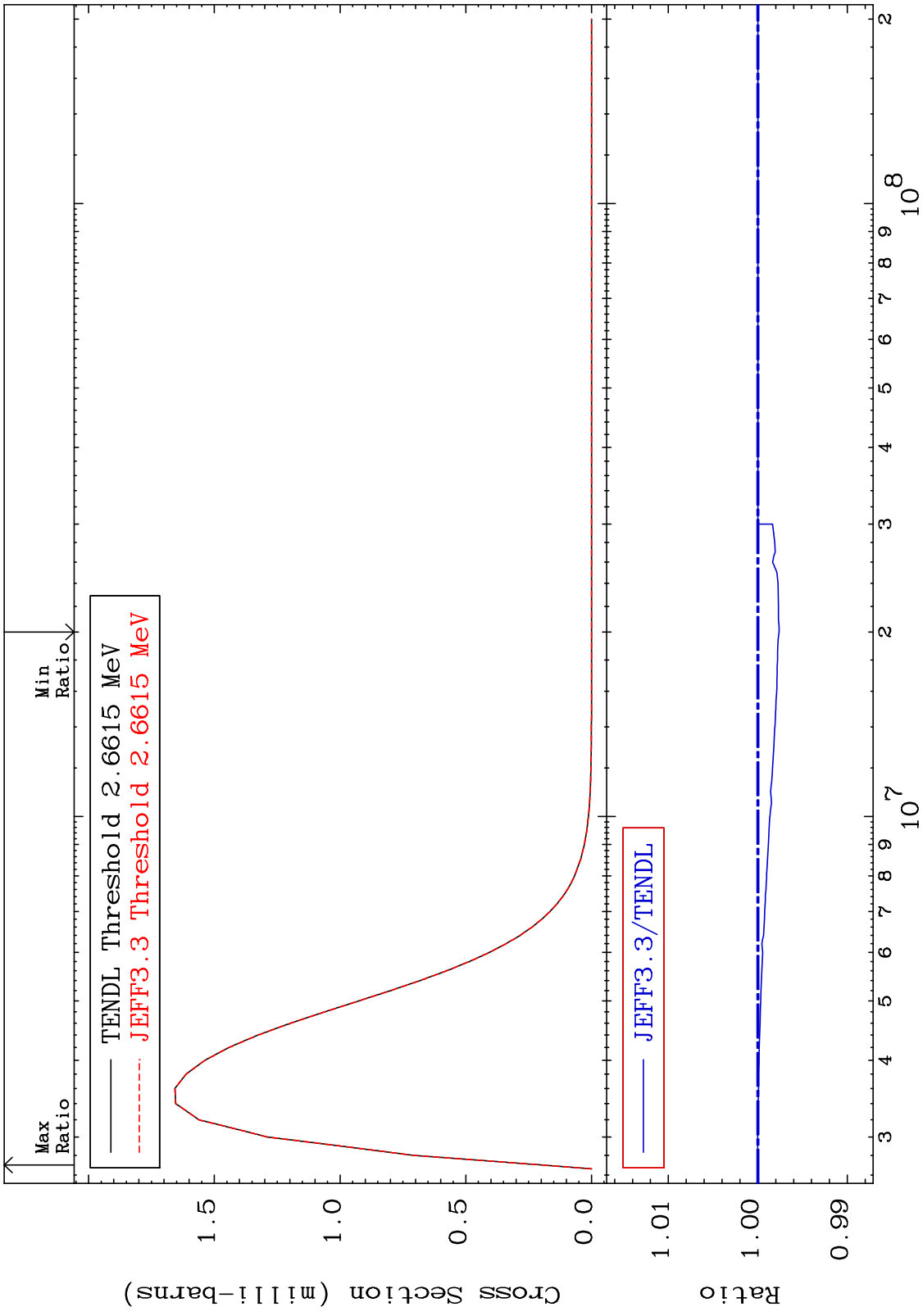
37

38-Sr-87

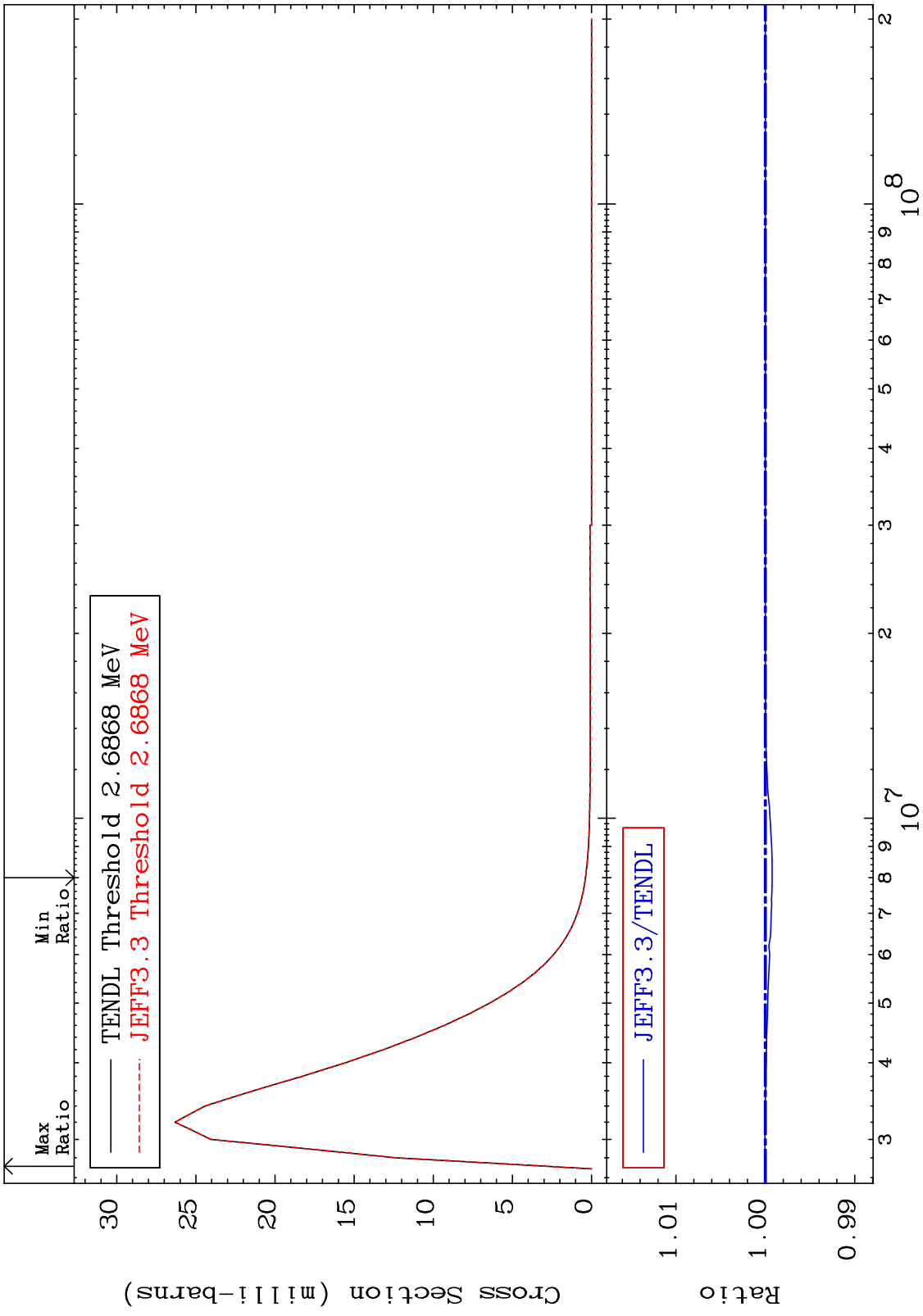
MAT 3834 MT= 72 (n,n') Level Cross Section 38-Sr-87 -0.062 To 0.021 %



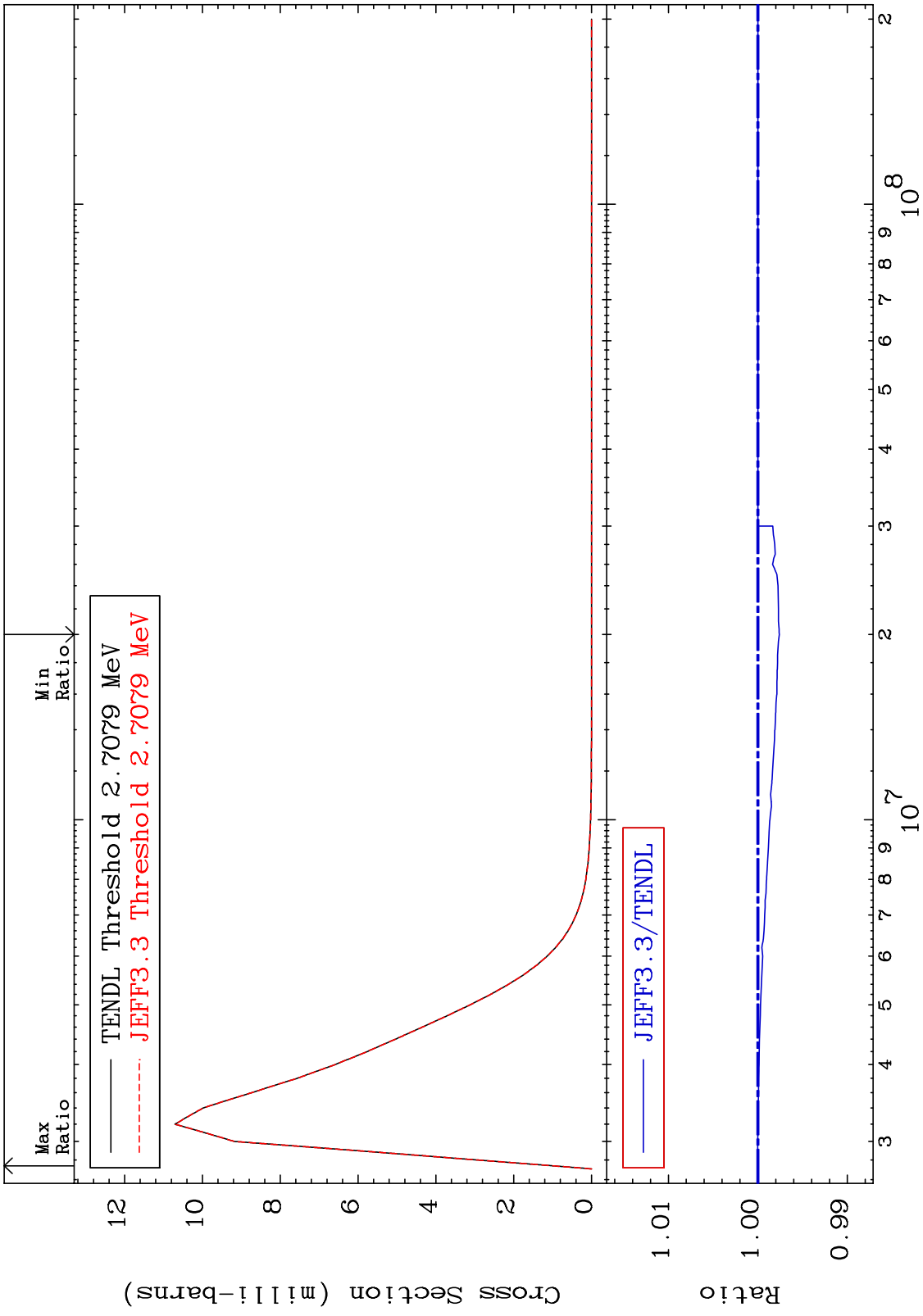
MAT 3834 MT= 73 (n,n') Level Cross Section 38-Sr-87
 -0.239 To 0.002 %



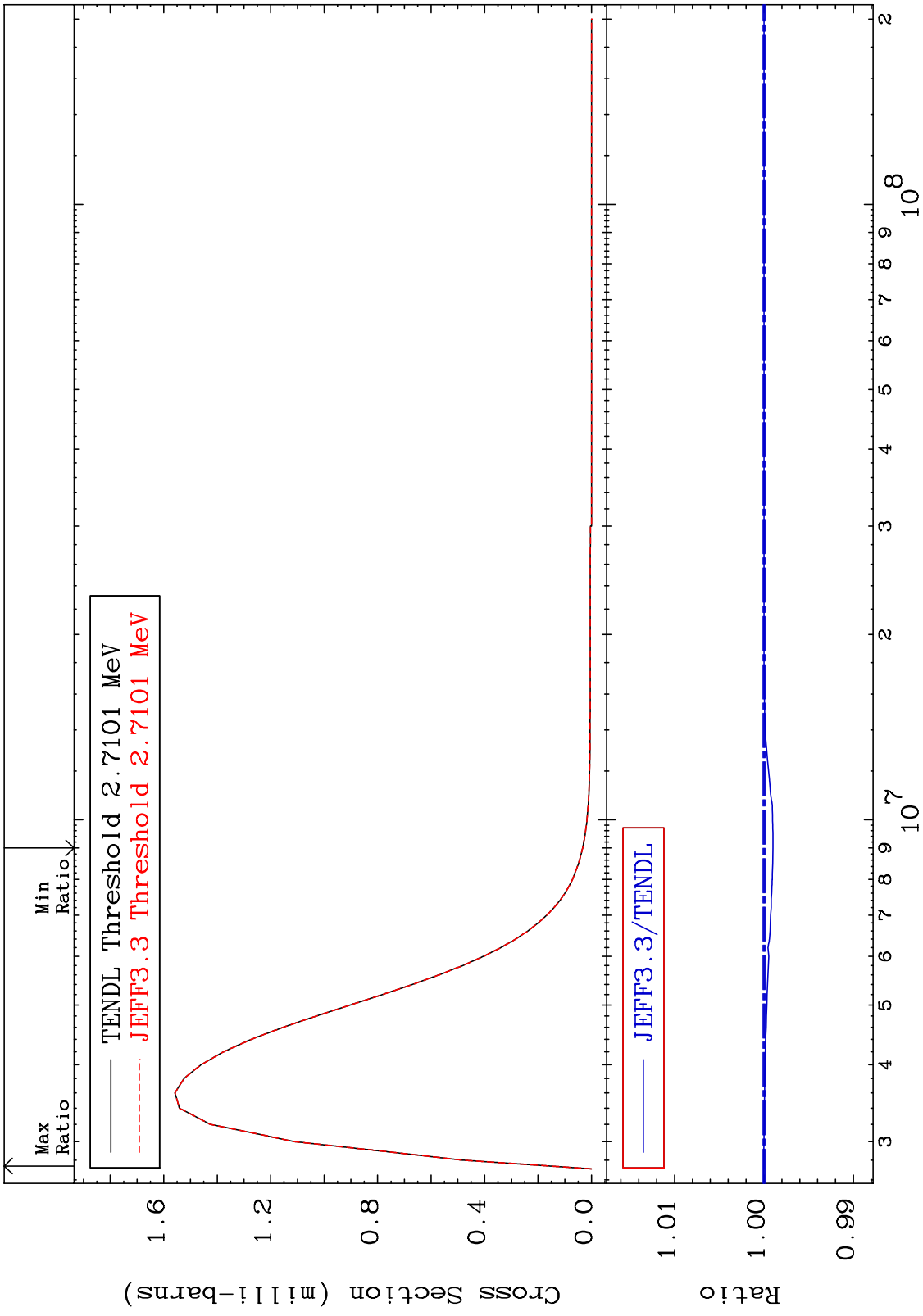
MAT 3834 MT= 74 (n,n') Level Cross Section 38-Sr-87
 -0.076 To 0.006 %



MAT 3834 MT= 75 (n,n') Level Cross Section 38-Sr-87
 -0.238 To 0.003 %



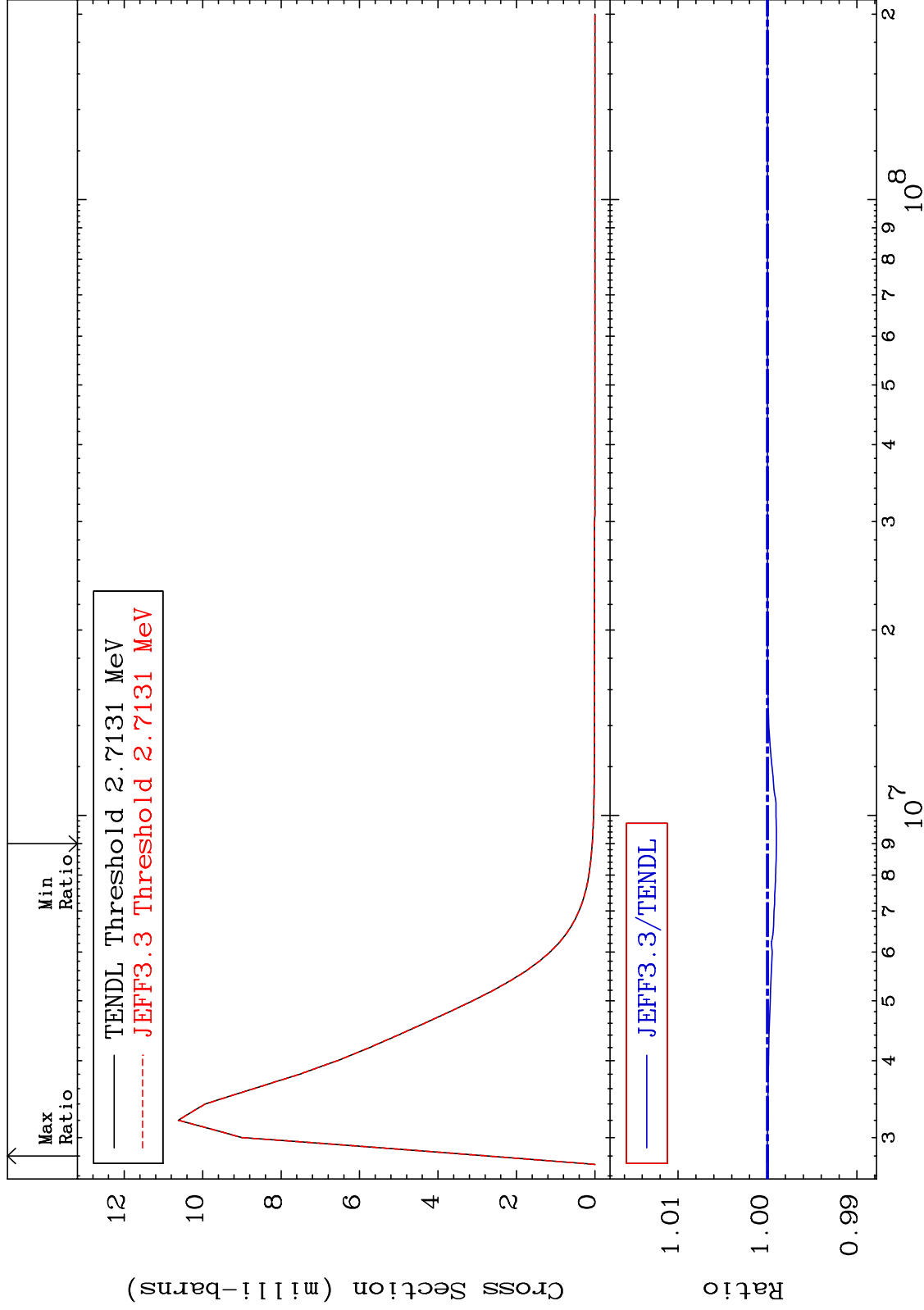
MAT 3834 MT= 76 (n,n') Level Cross Section 38-Sr-87
 -0.101 To 0.002 %



MAT 3834

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

38-Sr-87
-0.101 To 0.003 %

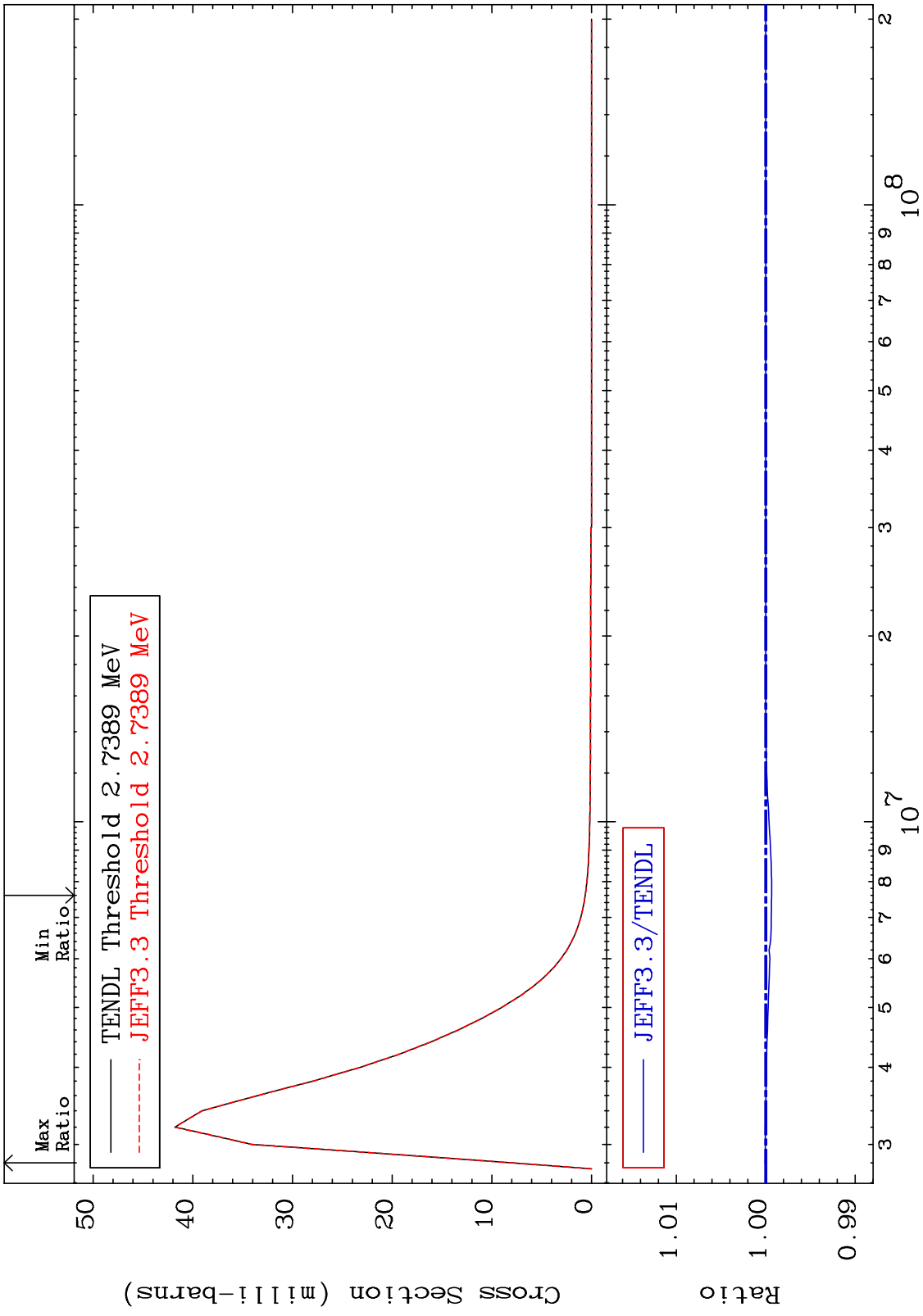


43

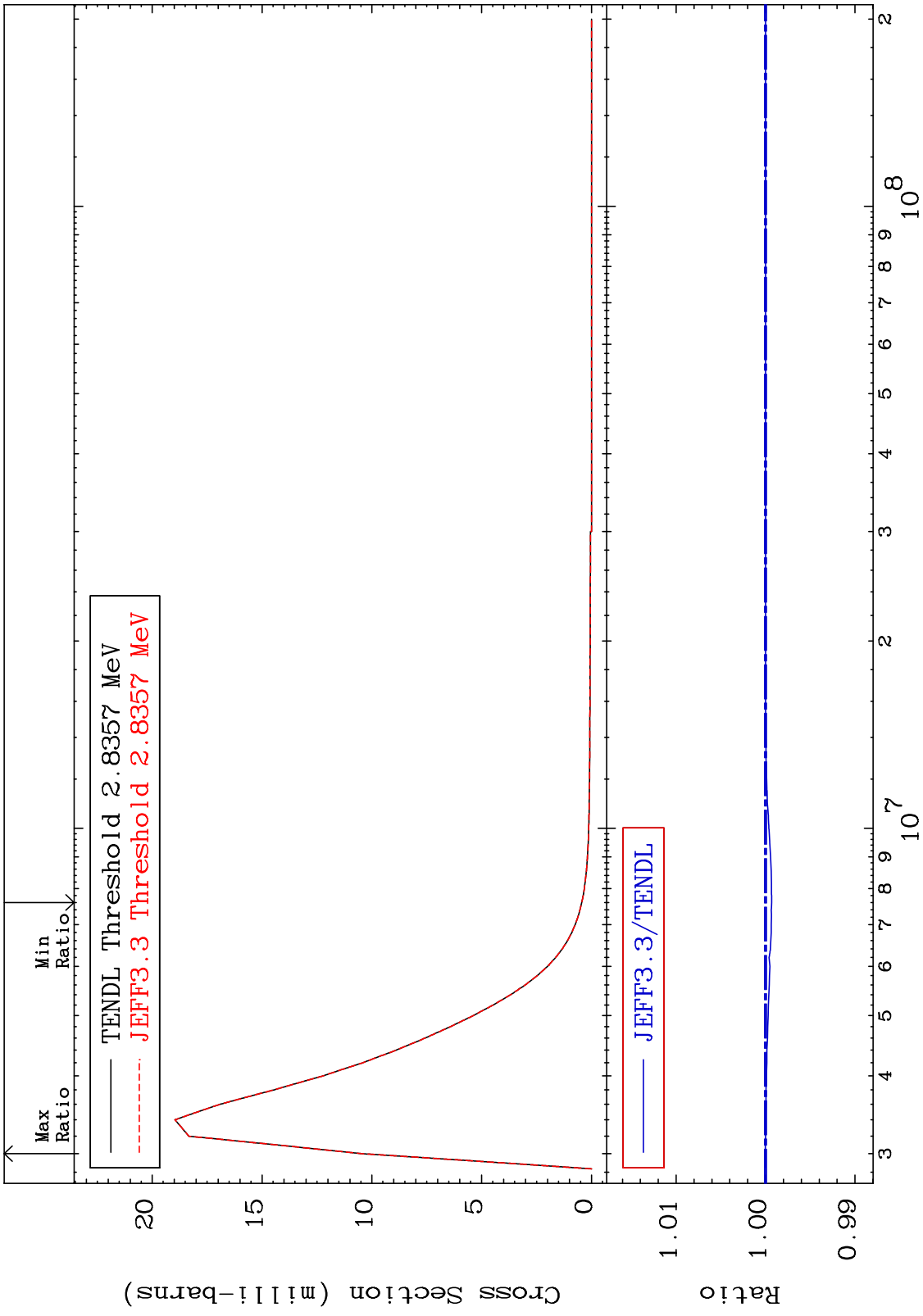
Incident Energy (eV)

38-Sr-87

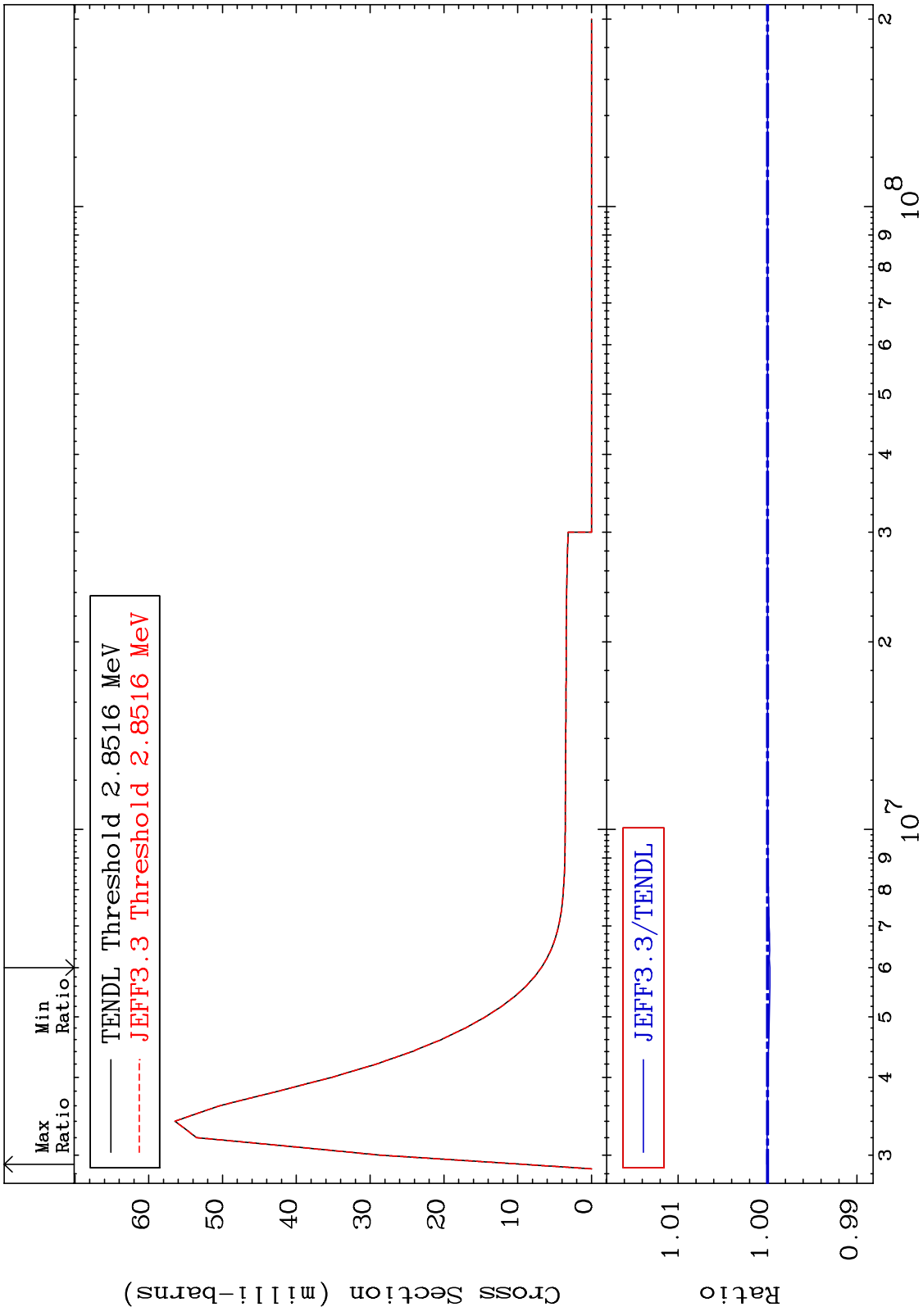
MAT 3834 MT= 78 (n,n') Level Cross Section 38-Sr-87
 -0.067 To 0.005 %



MAT 3834 MT= 79 (n,n') Level Cross Section 38-Sr-87
 -0.067 To 0.003 %



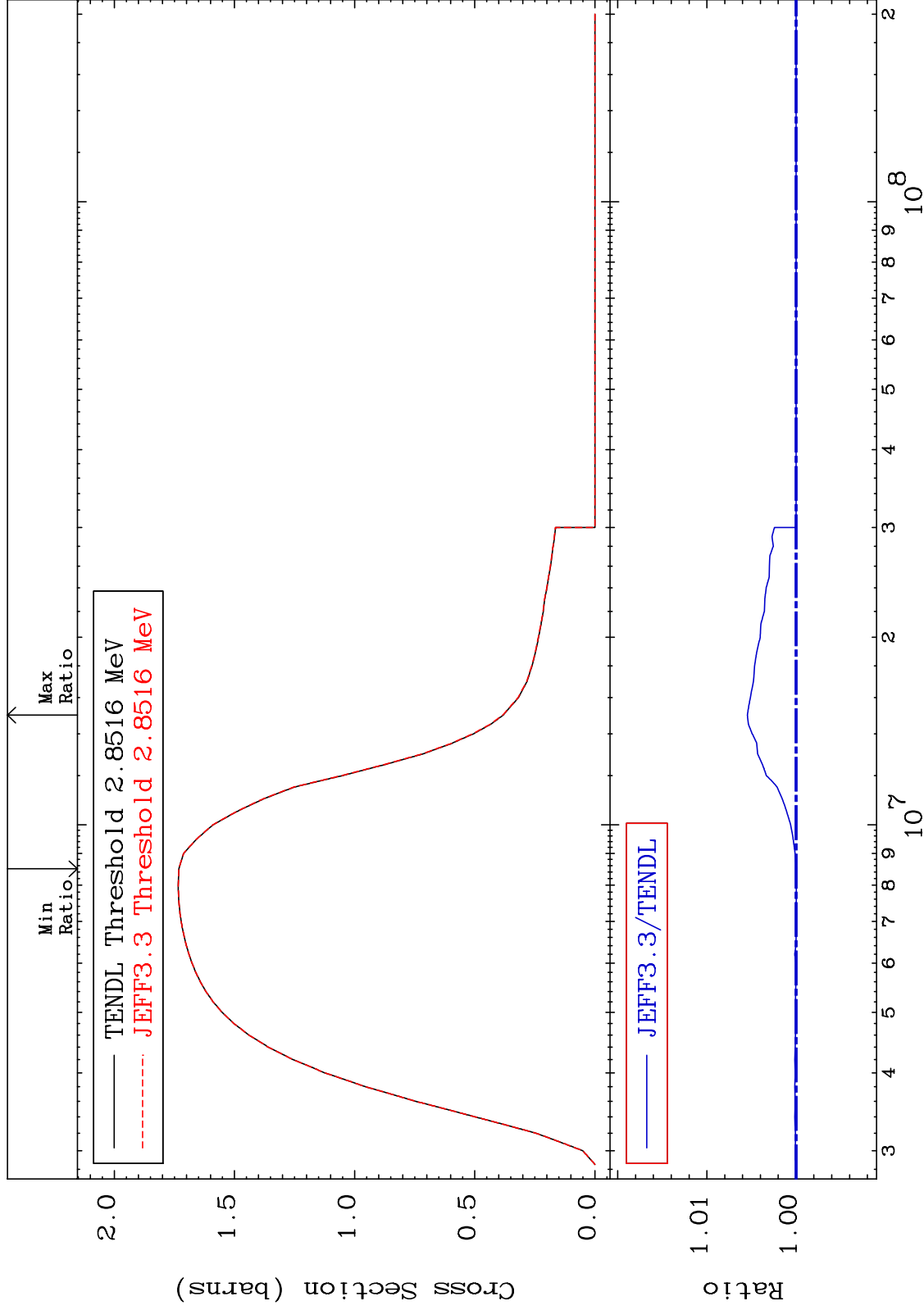
MAT 3834 MT= 80 (n,n') Level Cross Section 38-Sr-87
 -0.028 To 0.006 %



MAT 3834

(n, n') Continuum
Cross Section

38-Sr-87
-0.004 To 0.546 %



47

Incident Energy (eV)

38-Sr-87

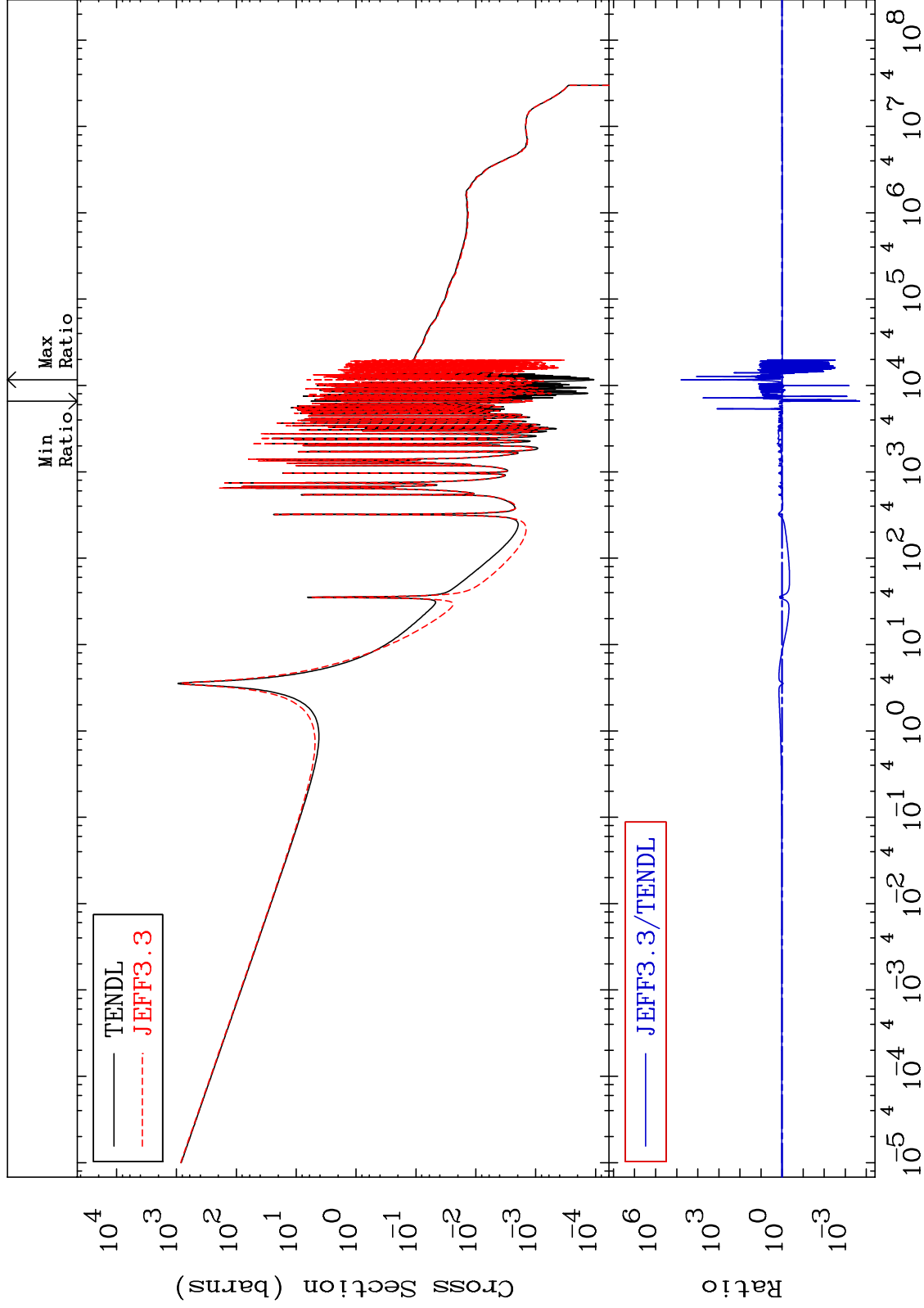
MAT 3834

(n, γ)

38-Sr-87

Cross Section

-99.98 To 9999. %



MAT 3834

(n,p)

38-Sr-87

-5.440 To 2917. %

Cross Section

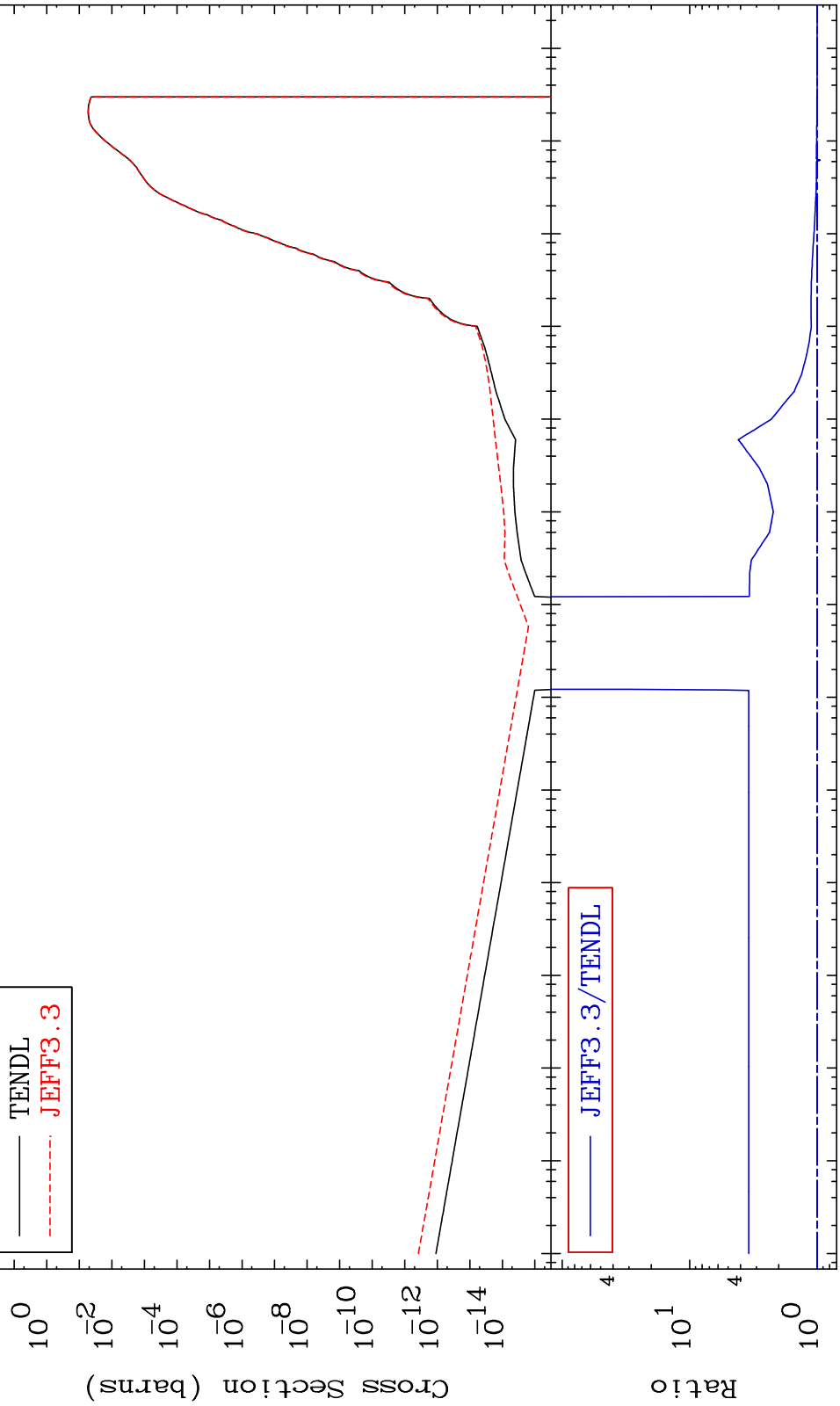
Max Ratio

Min Ratio

TENDL
JEFF3.3

JEFF3.3/TENDL

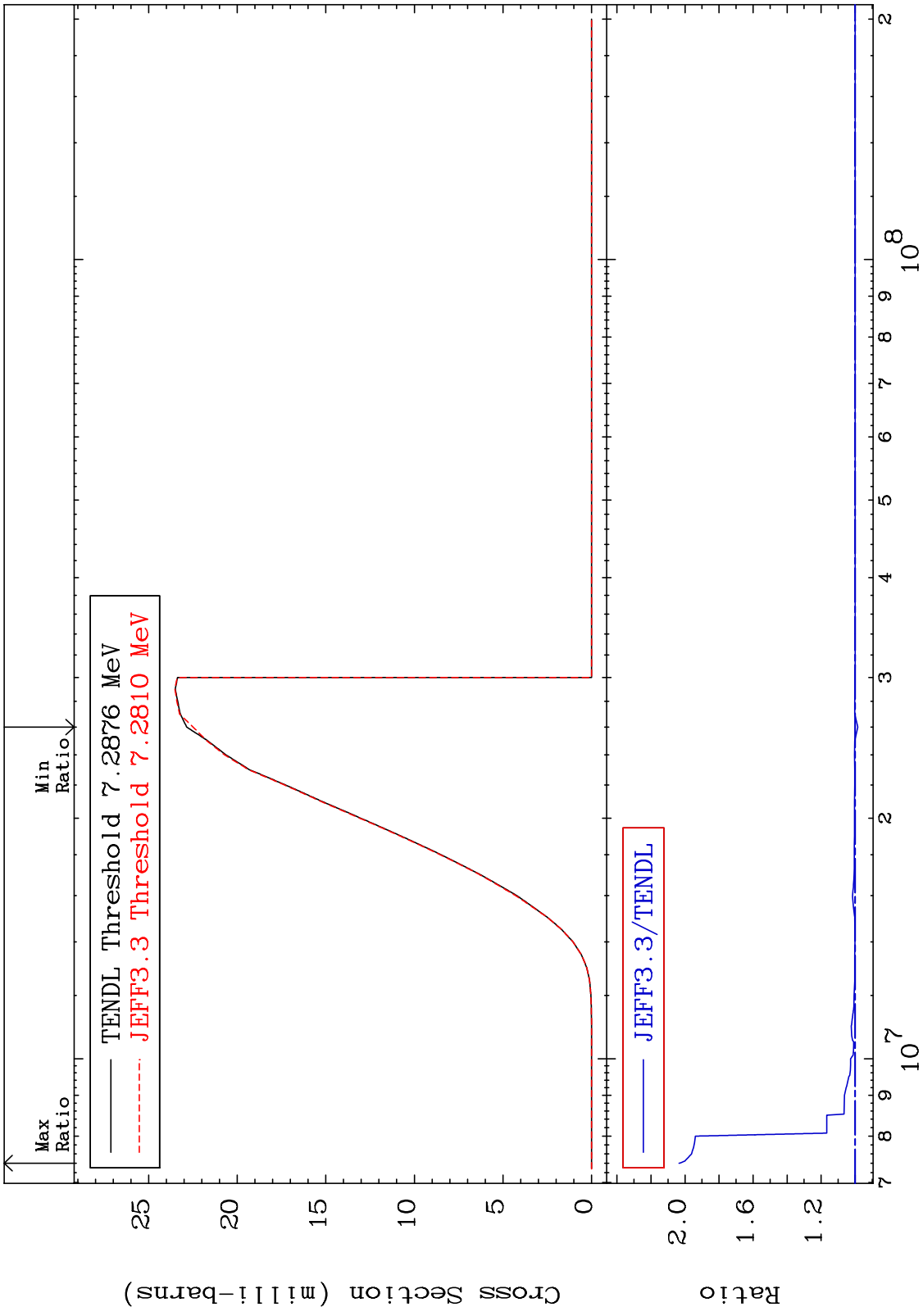
Cross Section (barns)



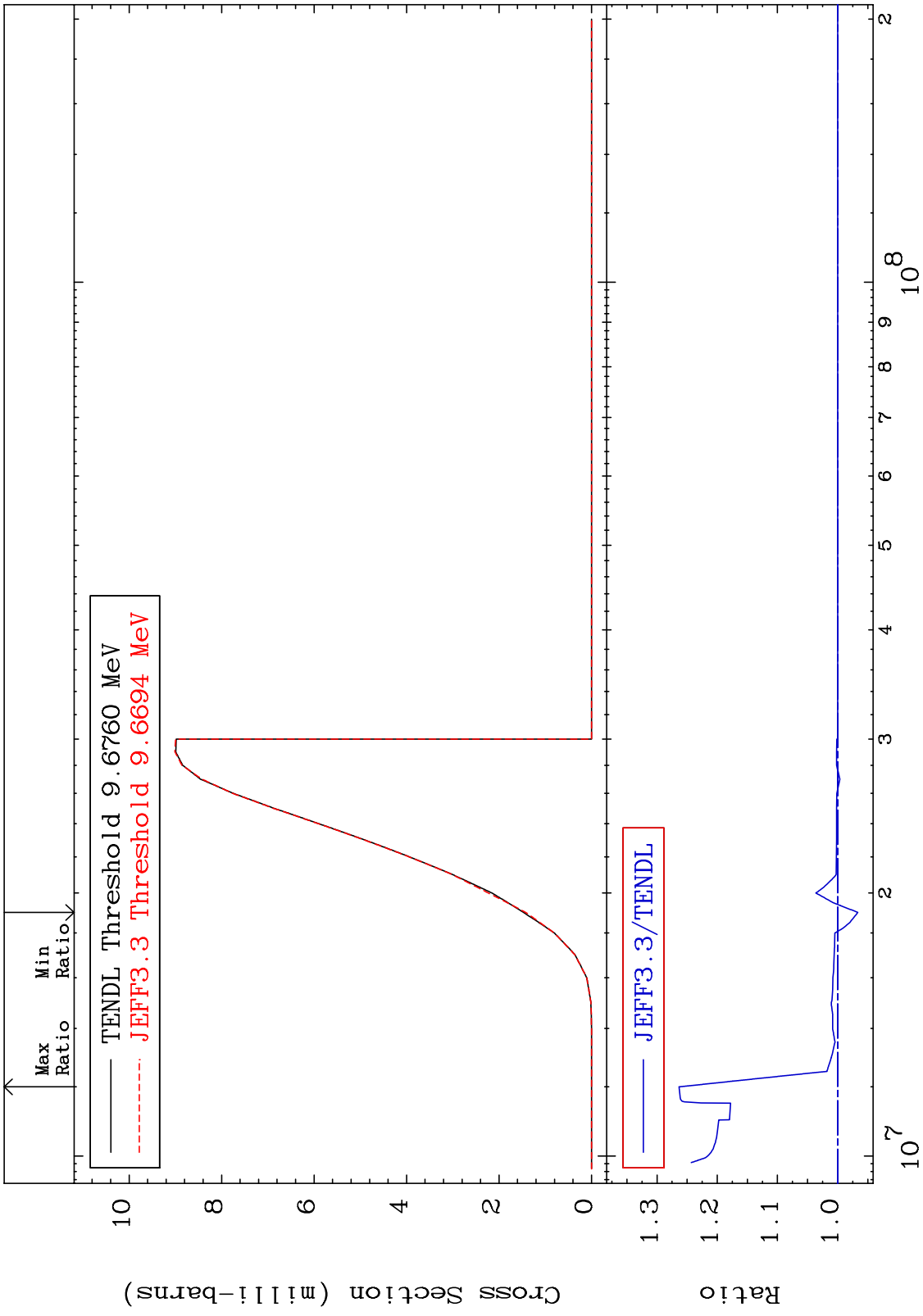
Incident Energy (eV)

38-Sr-87

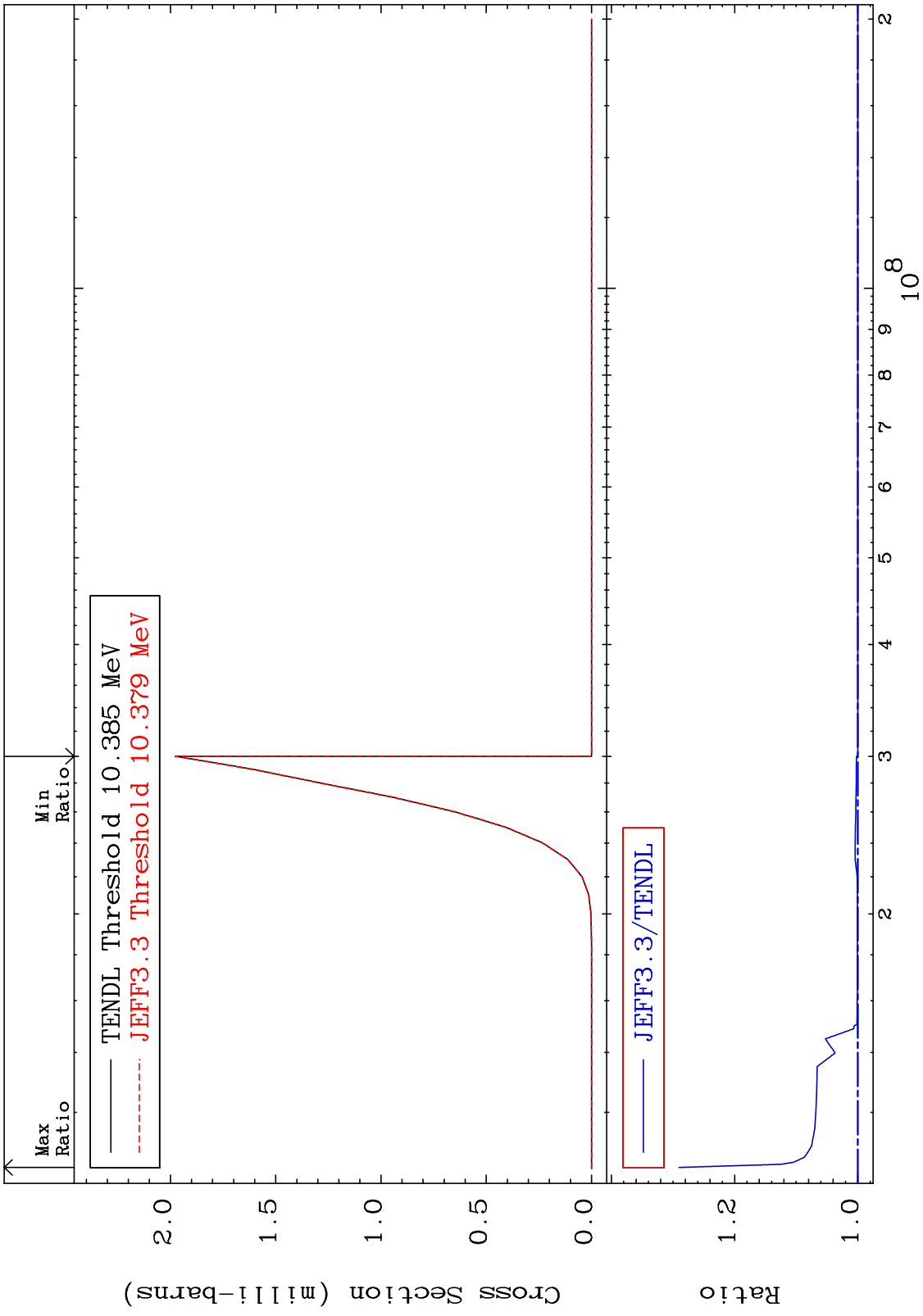
MAT 3834 (n,d) 38-Sr-87
Cross Section -1.575 To 103.5 %



MAT 3834 (n,t) 38-Sr-87
 Cross Section -3.350 To 26.34 %



MAT 3834 (n, He-3) Cross Section 38-Sr-87 To 29.02 %
 0.000



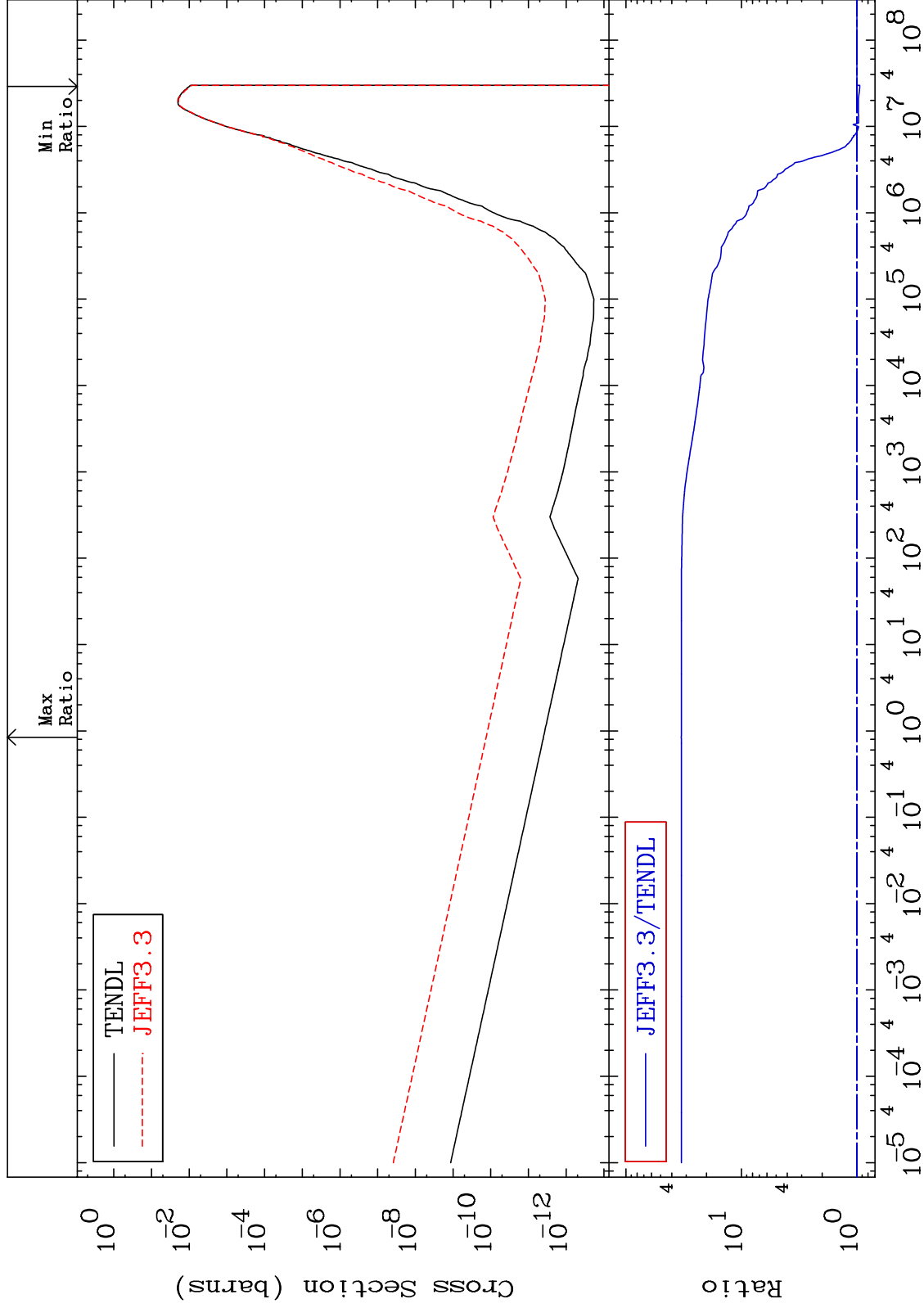
MAT 3834

(n,α)

38-Sr-87

Cross Section

-5.674 To 3216. %



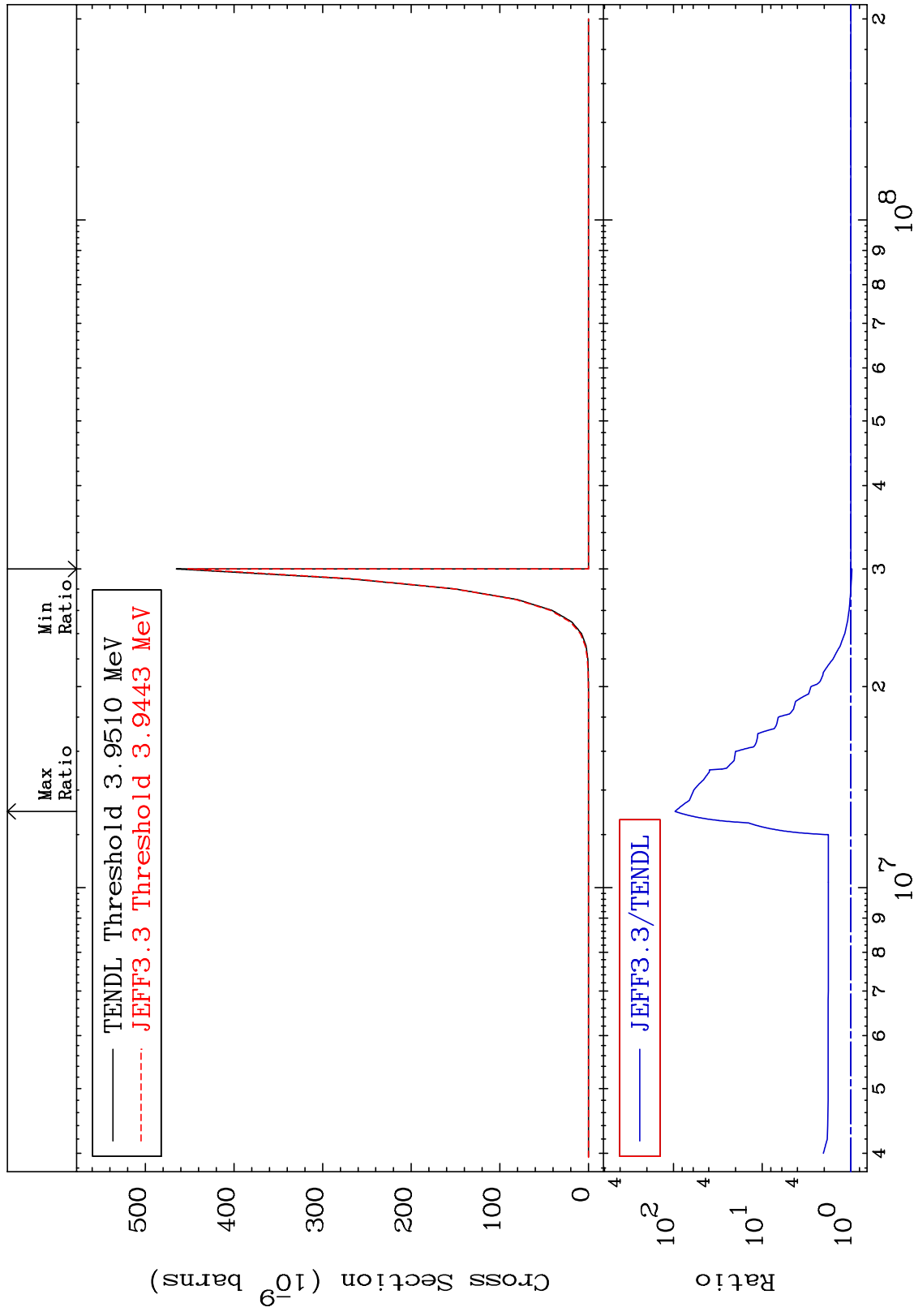
MAT 3834

(n,2α)

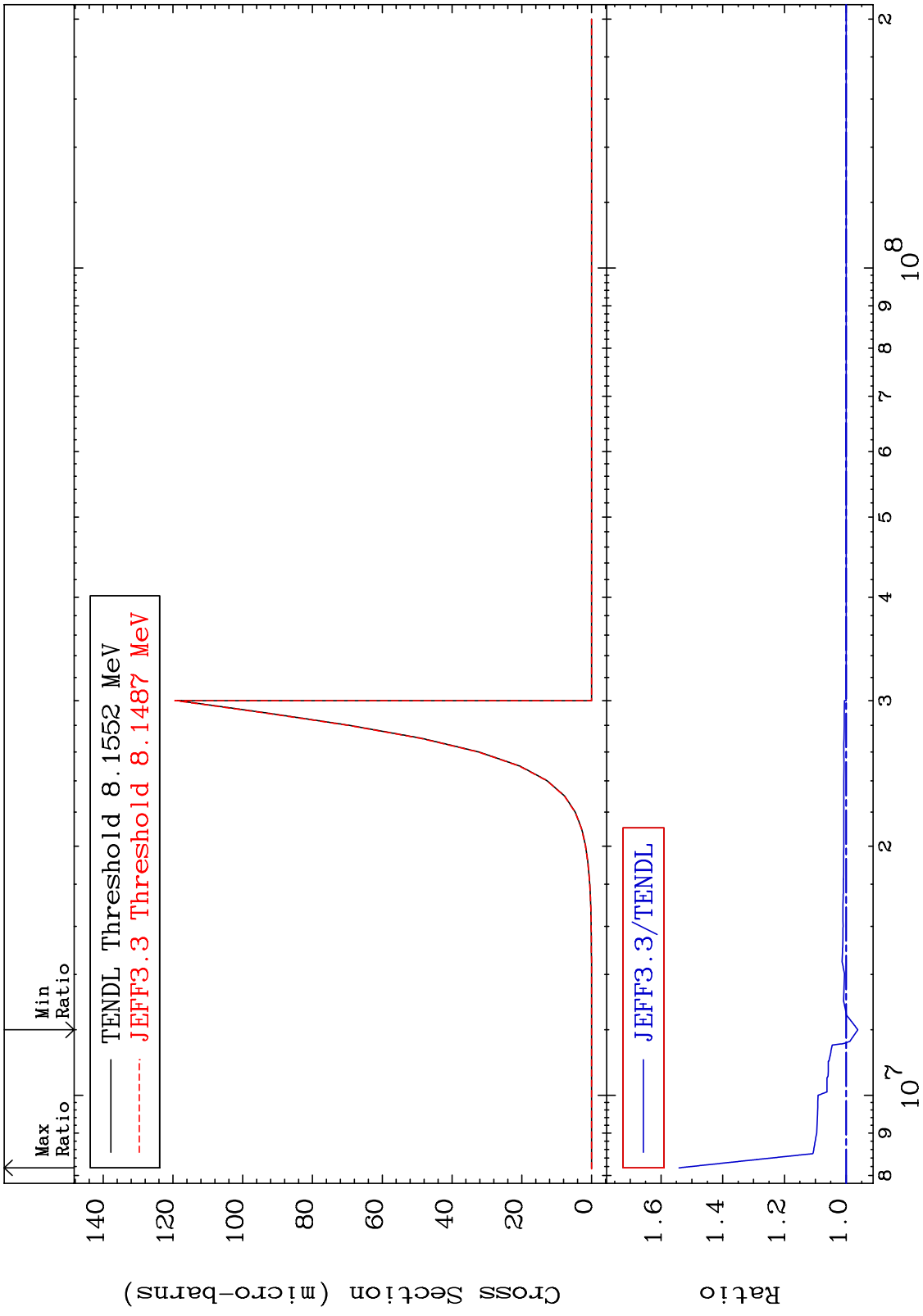
38-Sr-87

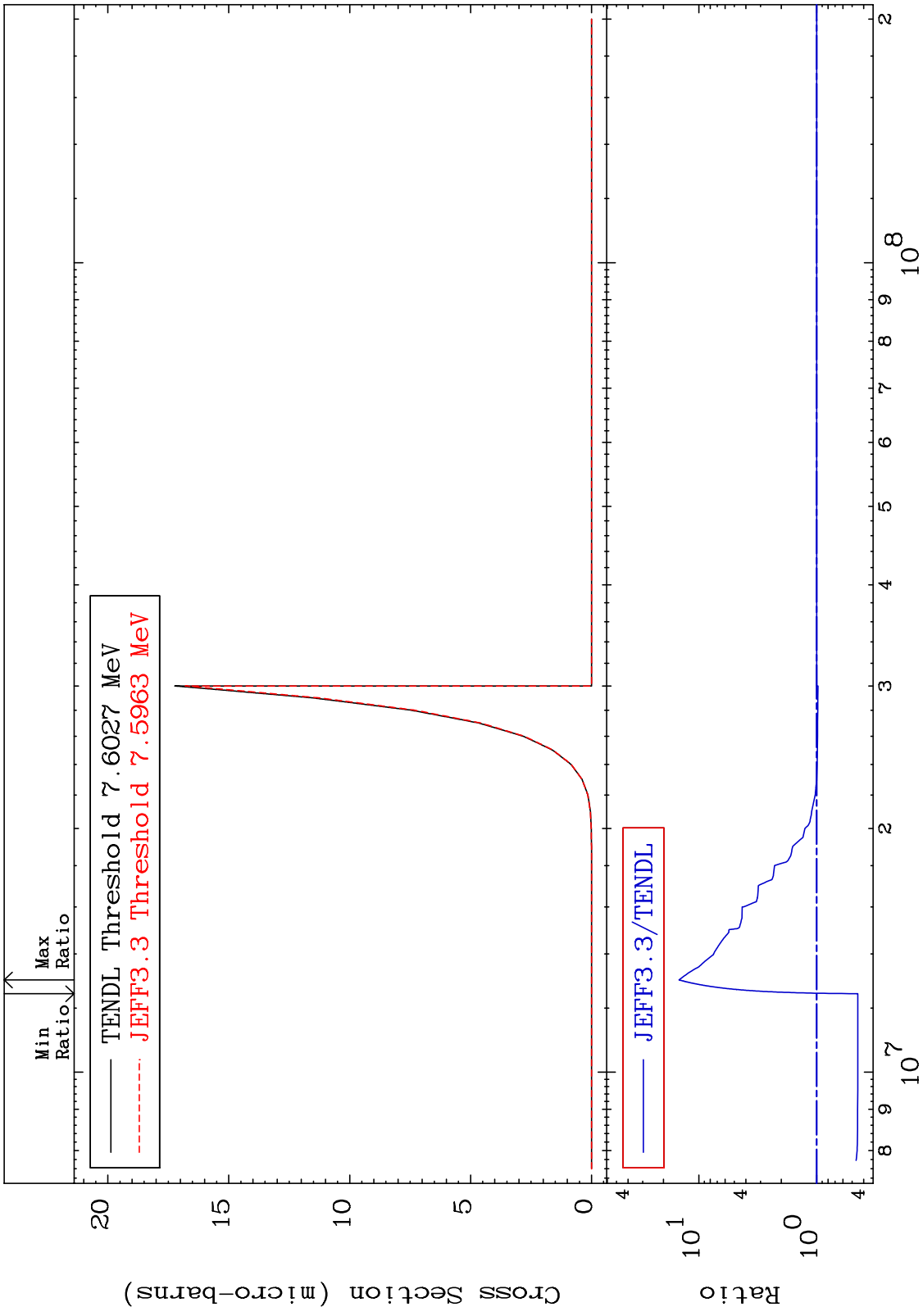
Cross Section

-2.826 To 9499. %

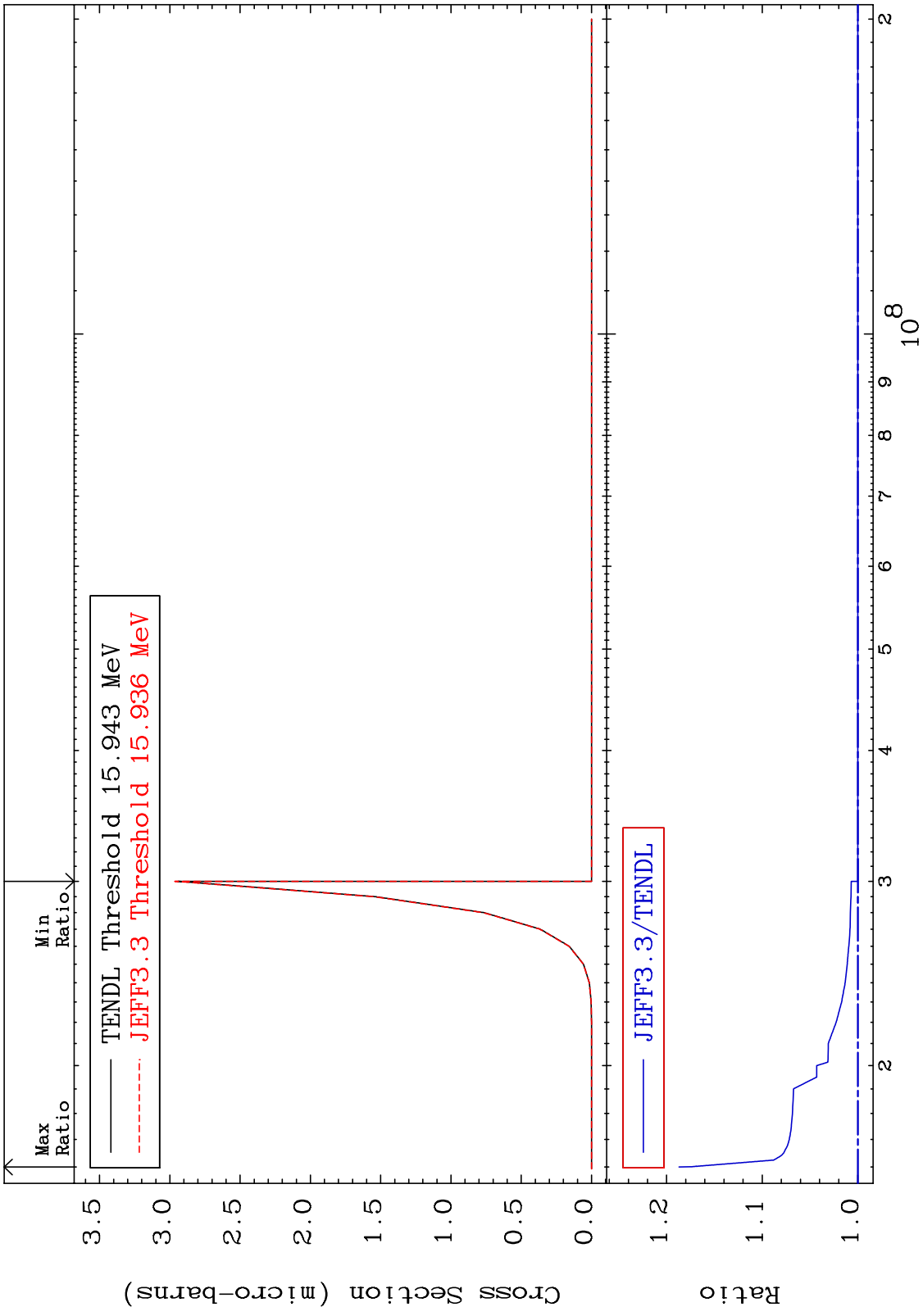


MAT 3834 (n,2p) Cross Section 38-Sr-87
 -3.764 To 54.16 %

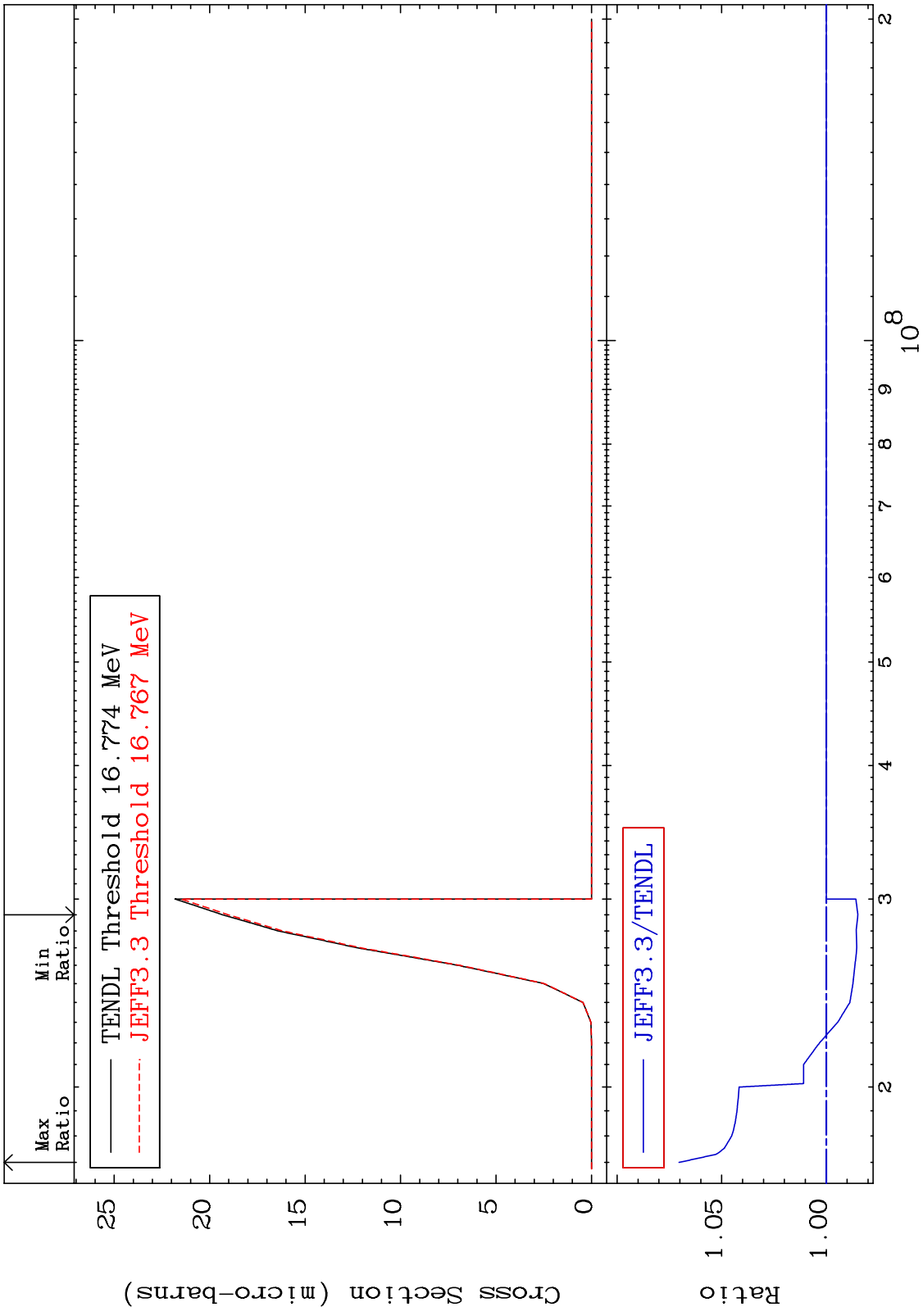


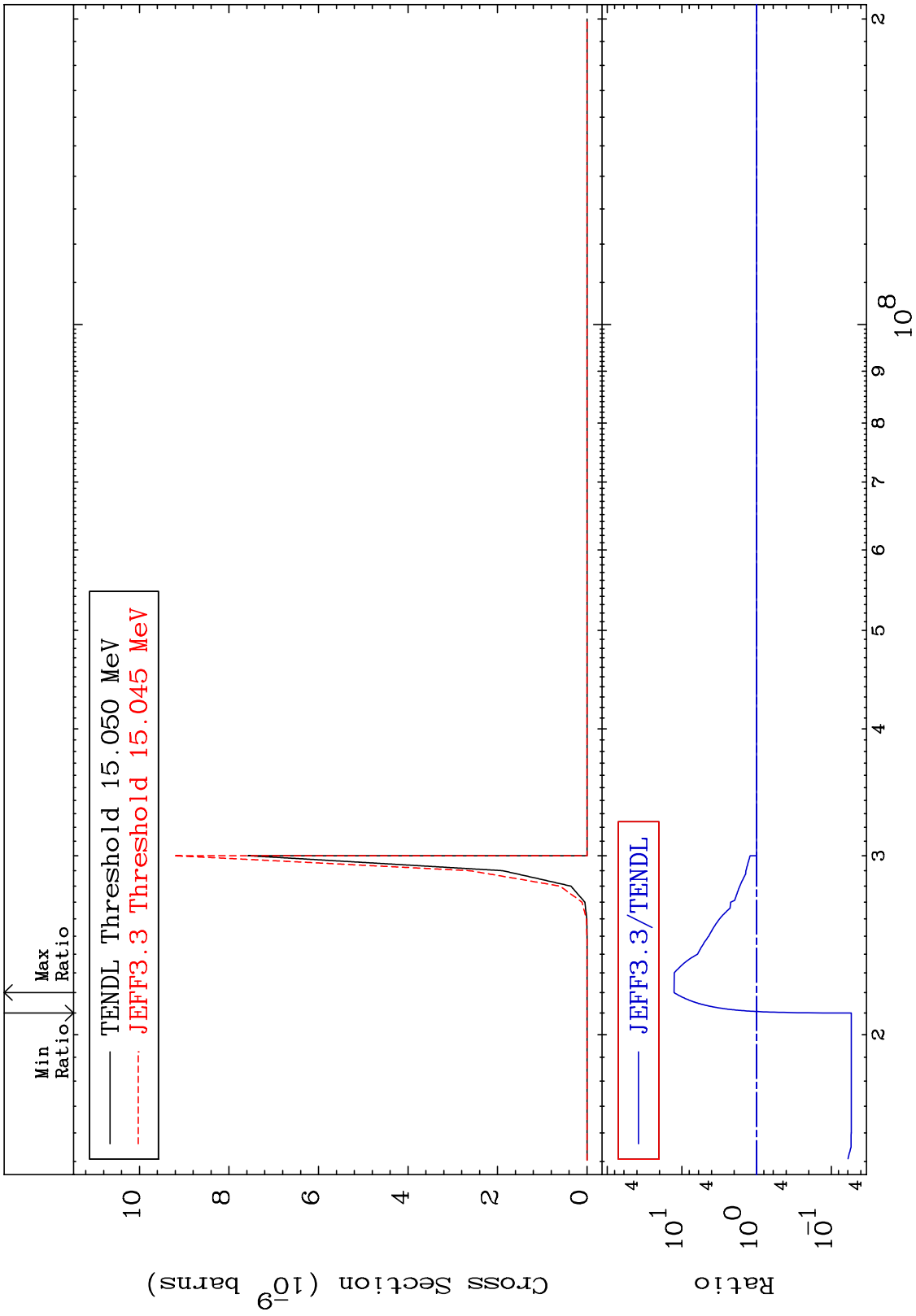


MAT 3834 (n,p) d 38-Sr-87
 Cross Section 0.000 To 18.70 %



MAT 3834 (n,p) t 38-Sr-87
 Cross Section -1.511 To 7.039 %

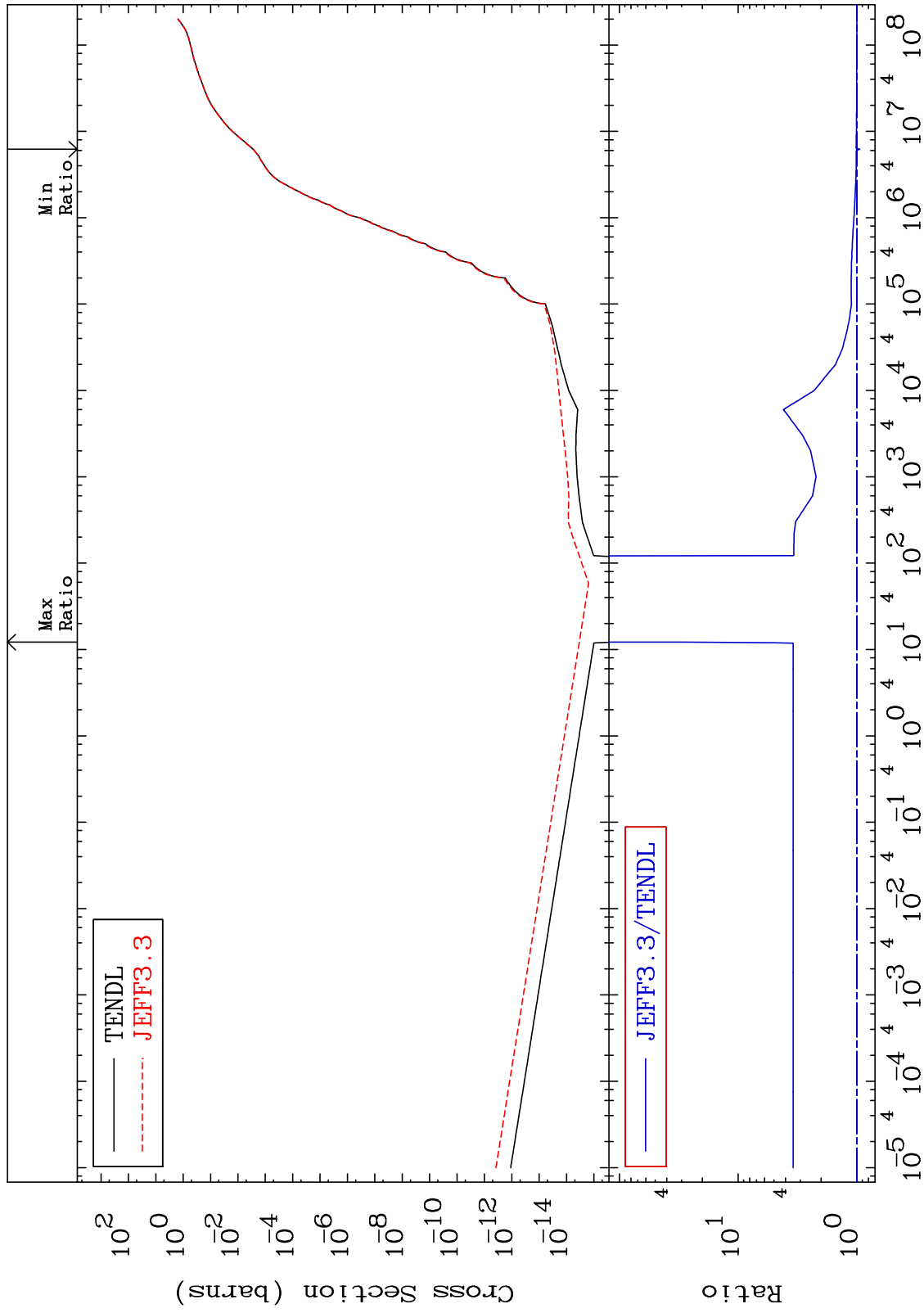




MAT 3834

Hydrogen Production
Cross Section

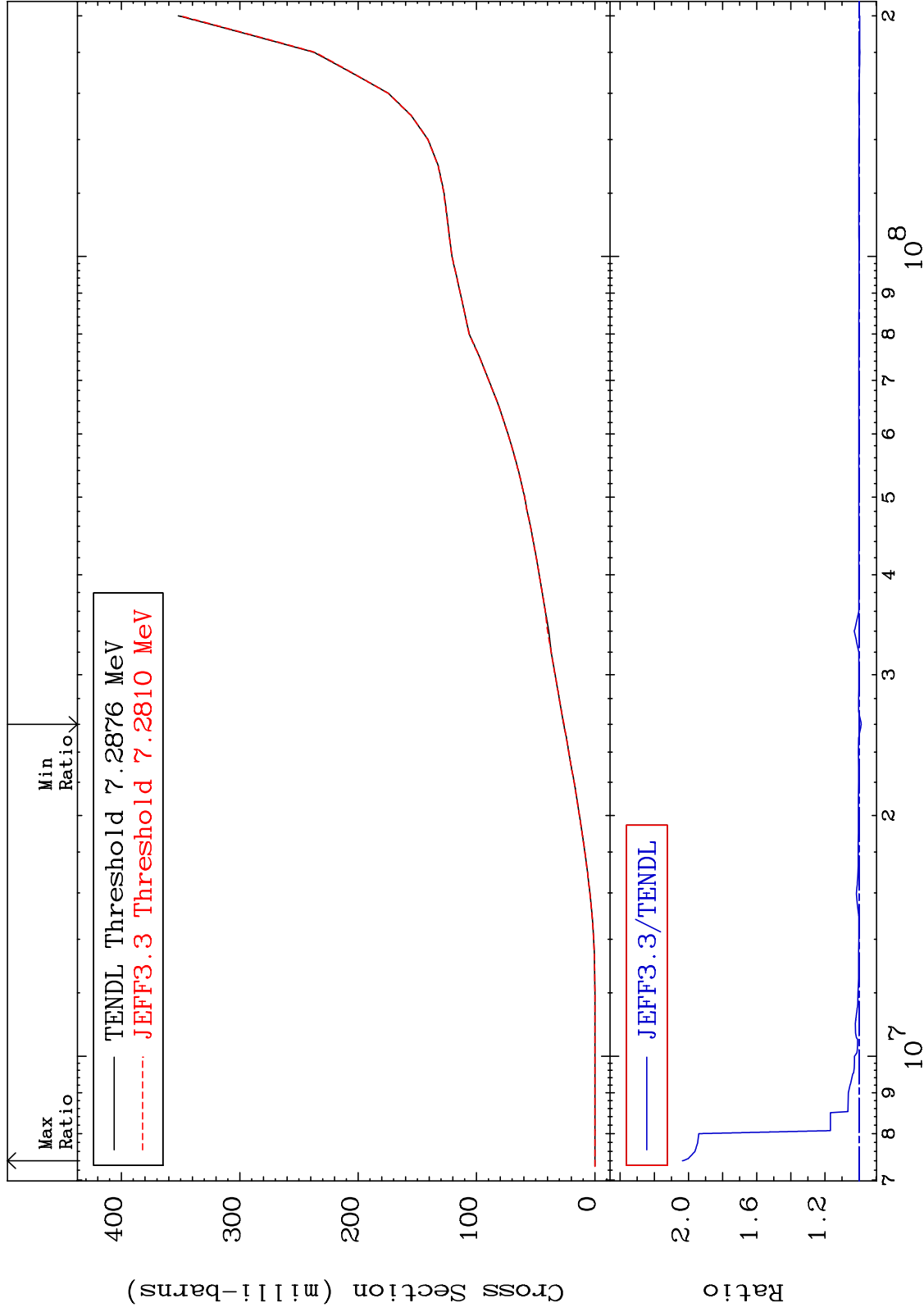
38-Sr-87
-5.440 To 2917. %



MAT 3834

Deuterium Production
Cross Section

38-Sr-87
-1.302 To 103.5 %

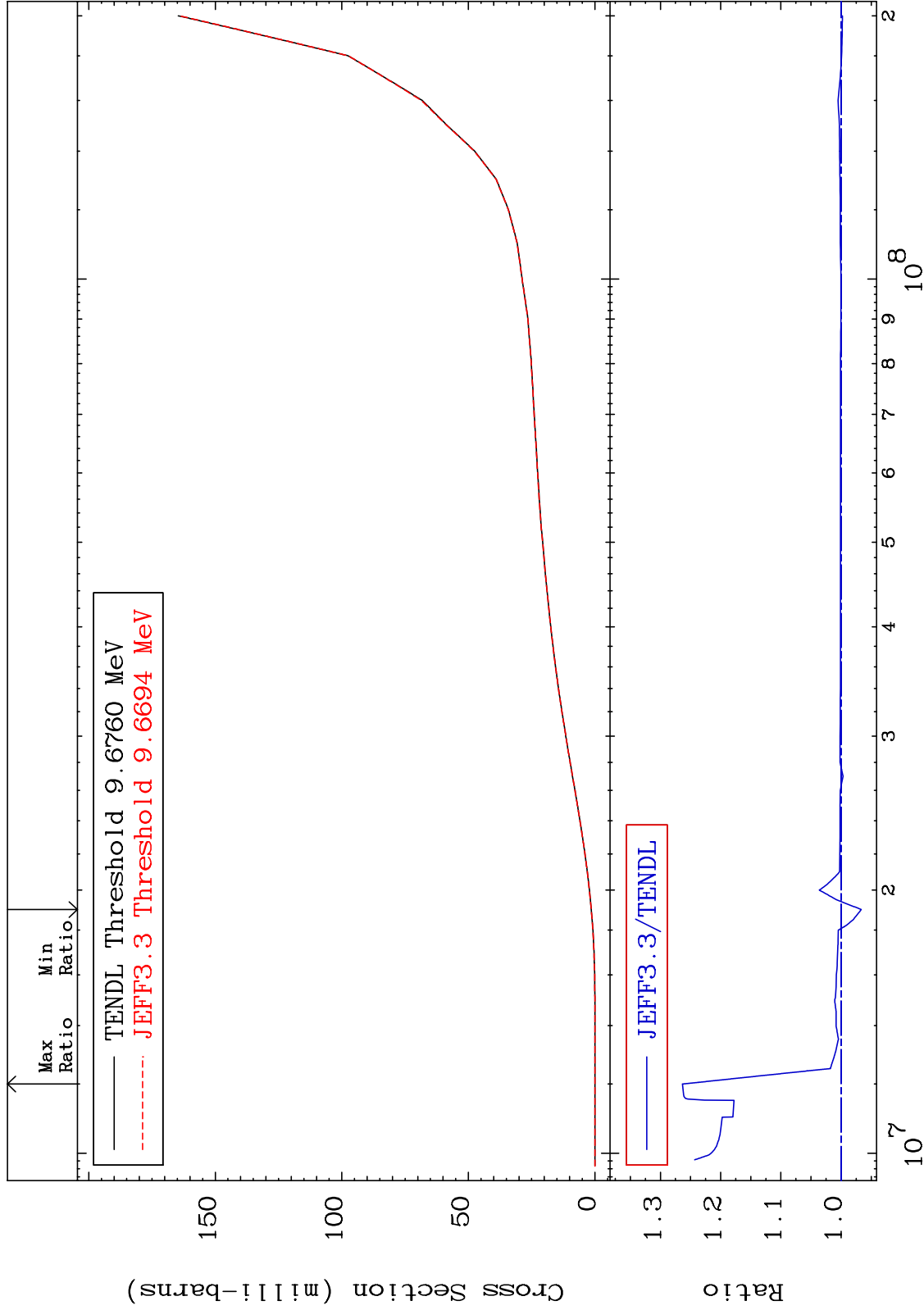


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MAT 3834

Tritium Production
Cross Section

38-Sr-87
-3.350 To 26.34 %

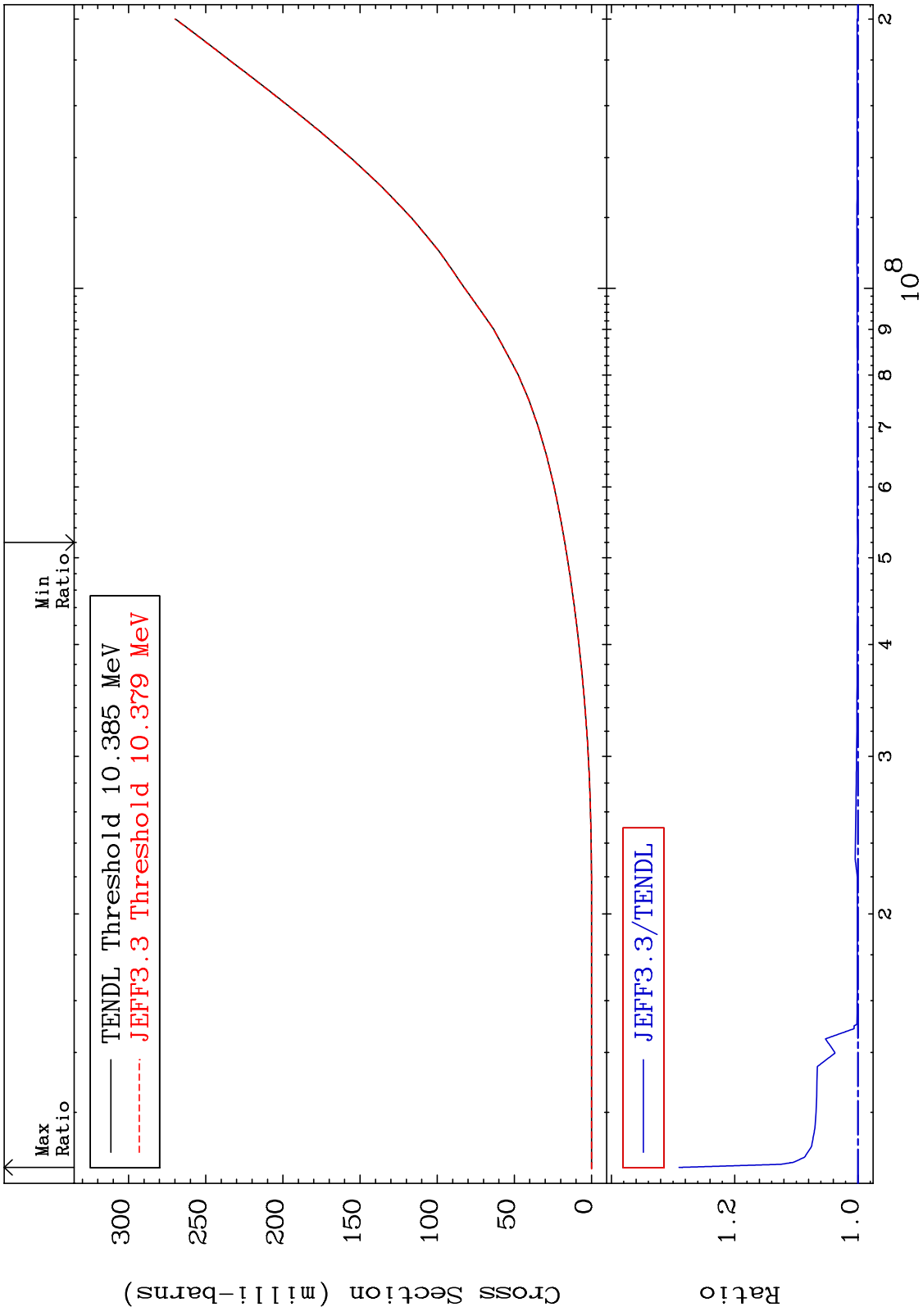


62

Incident Energy (eV)

38-Sr-87

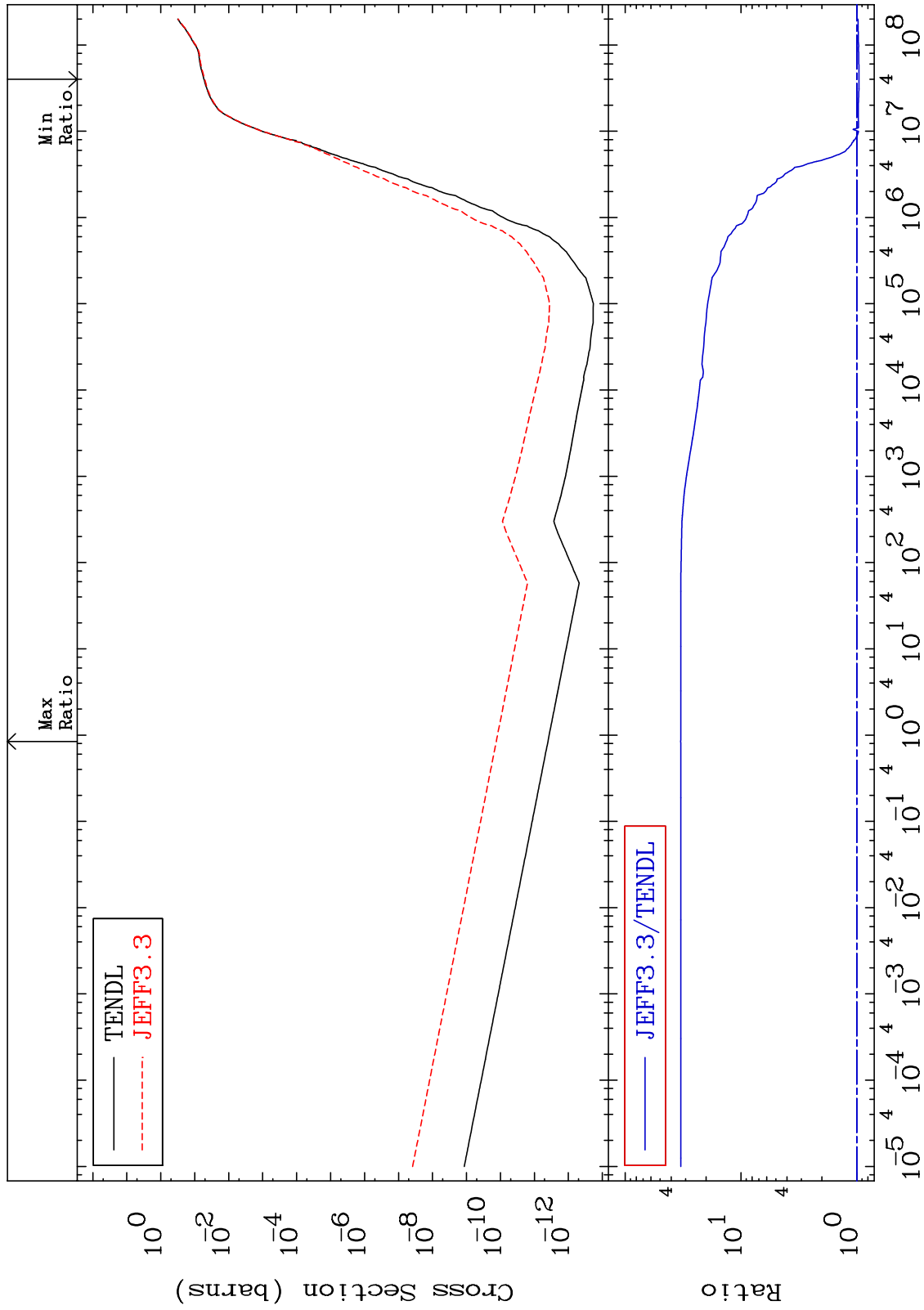
MAT 3834 He-3 Production Cross Section 38-Sr-87 To 29.02 %



MAT 3834

He-4 Production
Cross Section

38-Sr-87
-4.455 To 3216. %



64

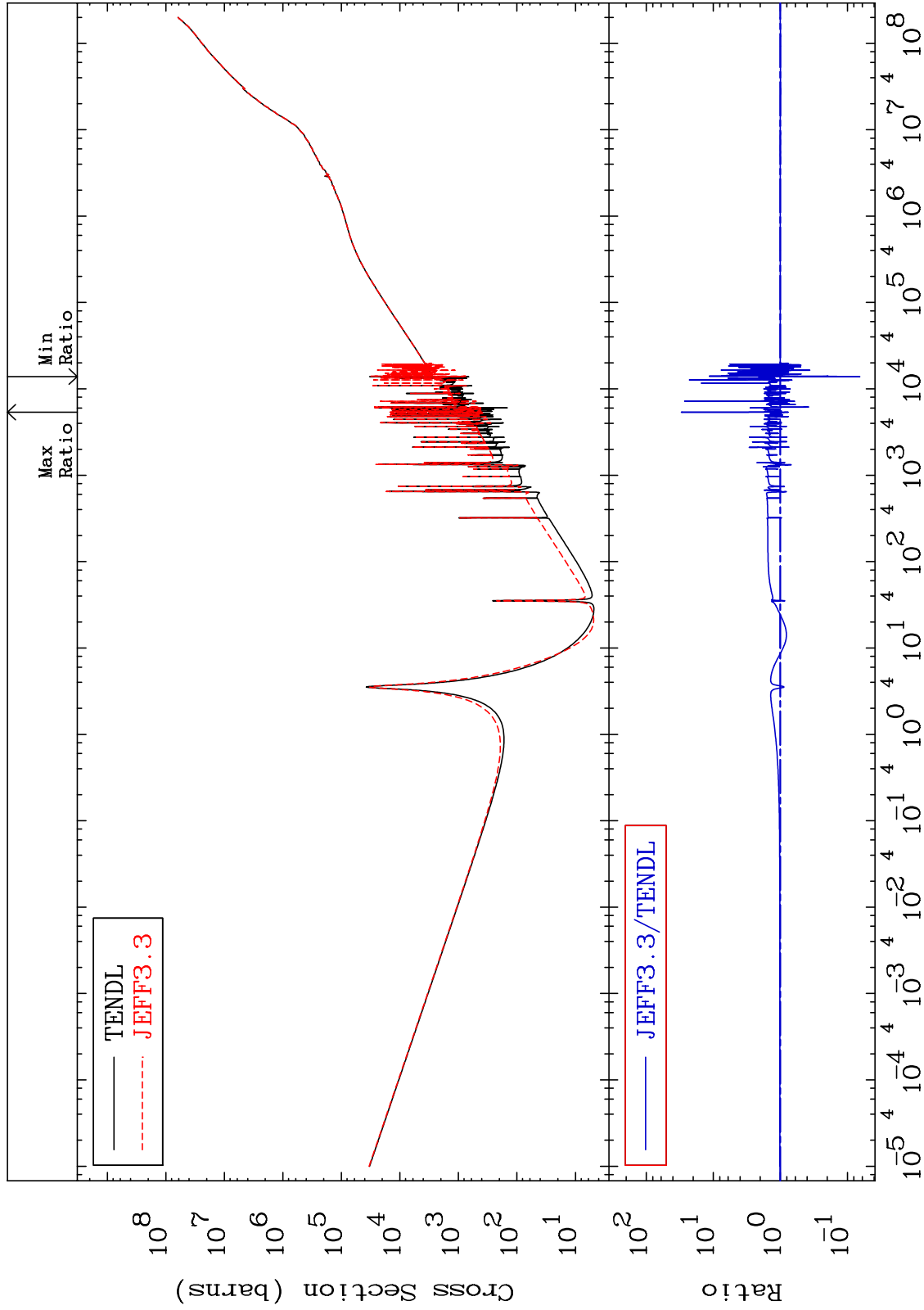
Incident Energy (eV)

38-Sr-87

MAT 3834

Kerma total (eV-barns)
Cross Section

38-Sr-87
-93.46 To 2911. %



65

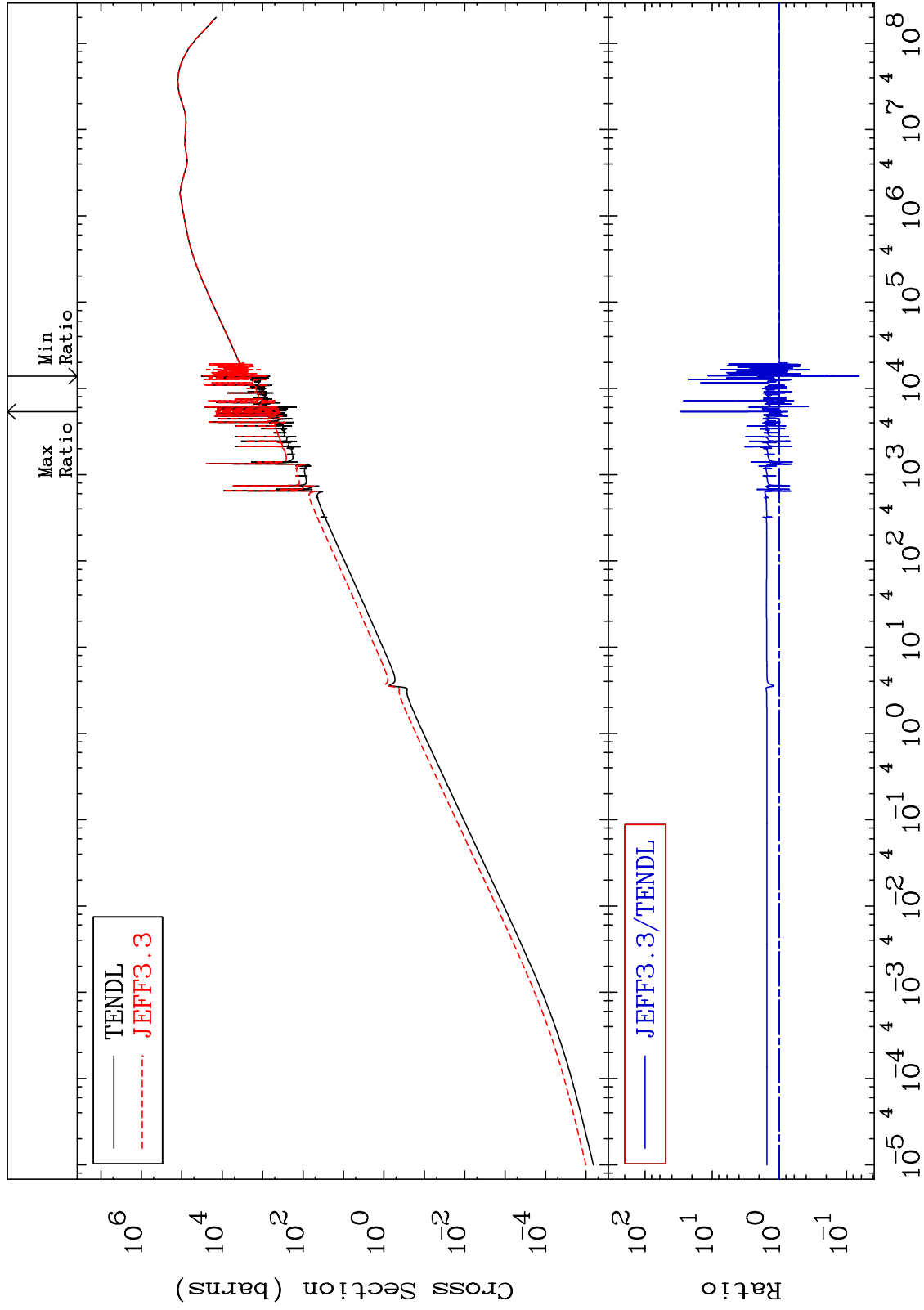
Incident Energy (eV)

38-Sr-87

MAT 3834

Kerma elastic
Cross Section

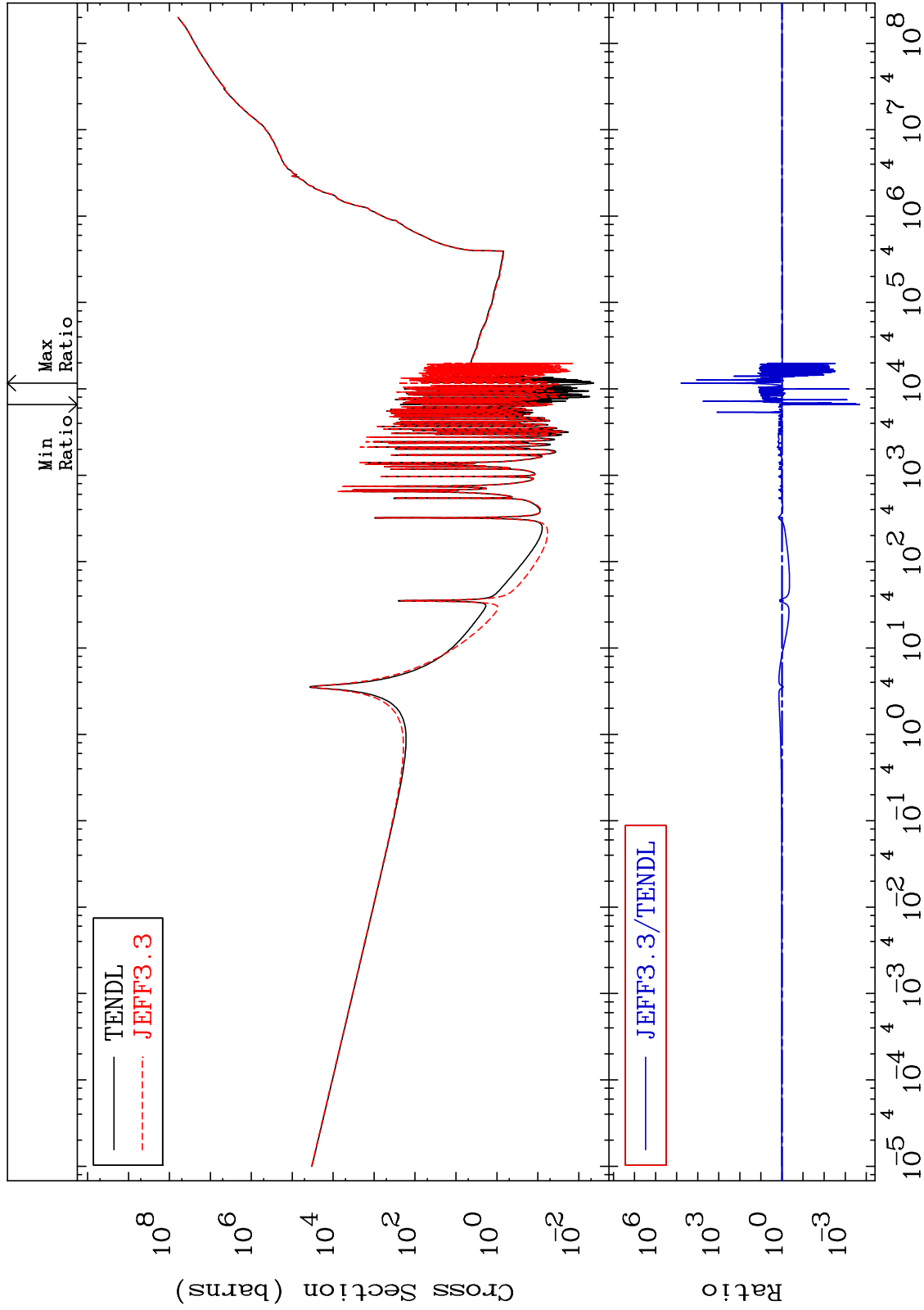
38-Sr-87
-93.48 To 2850. %



MAT 3834

Kerma non-elastic (all but mt2)
Cross Section

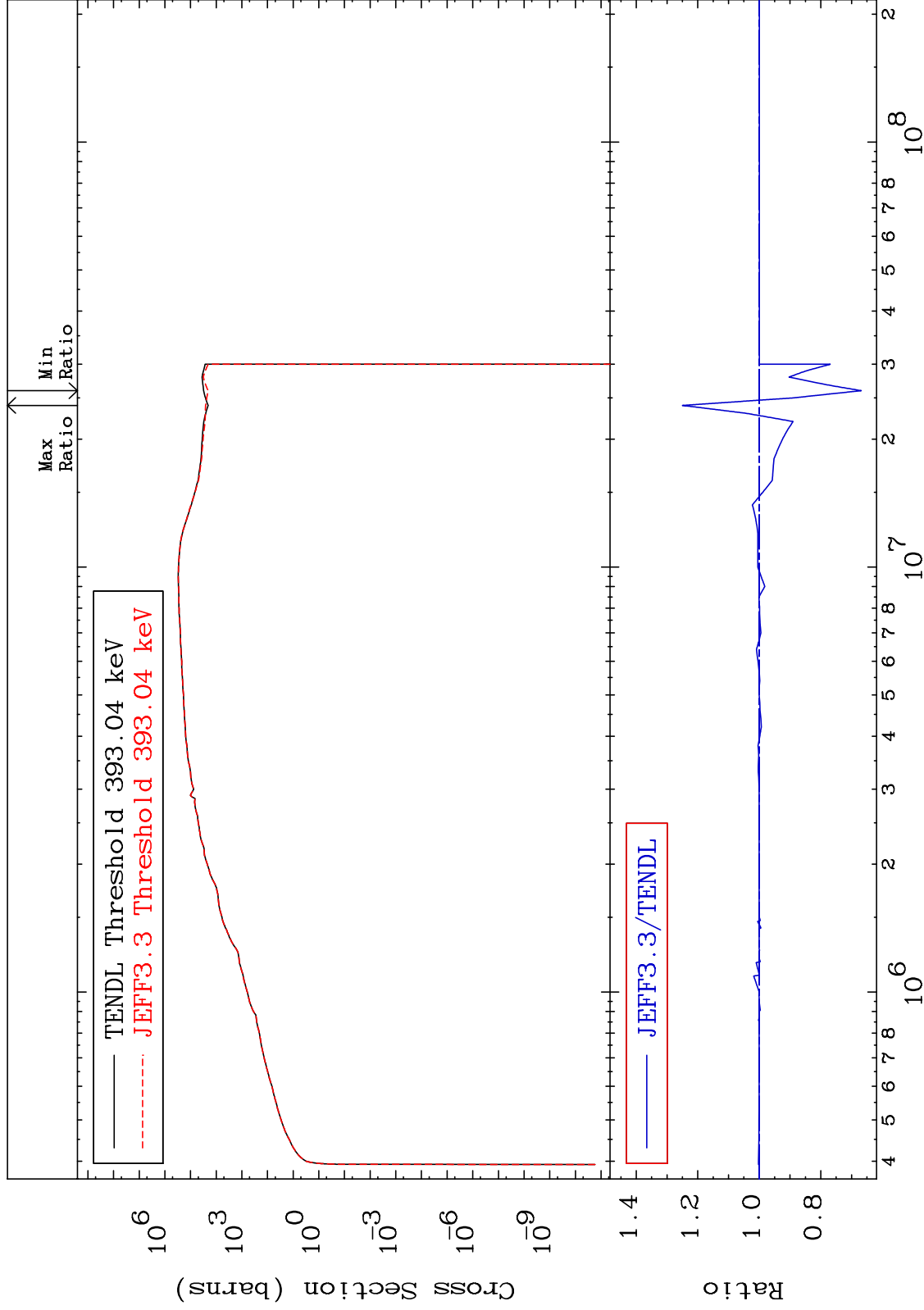
38-Sr-87
-99.98 To 9999. %



MAT 3834

Kerma inelastic (mt51-91)
Cross Section

38-Sr-87
-33.18 To 24.98 %



68

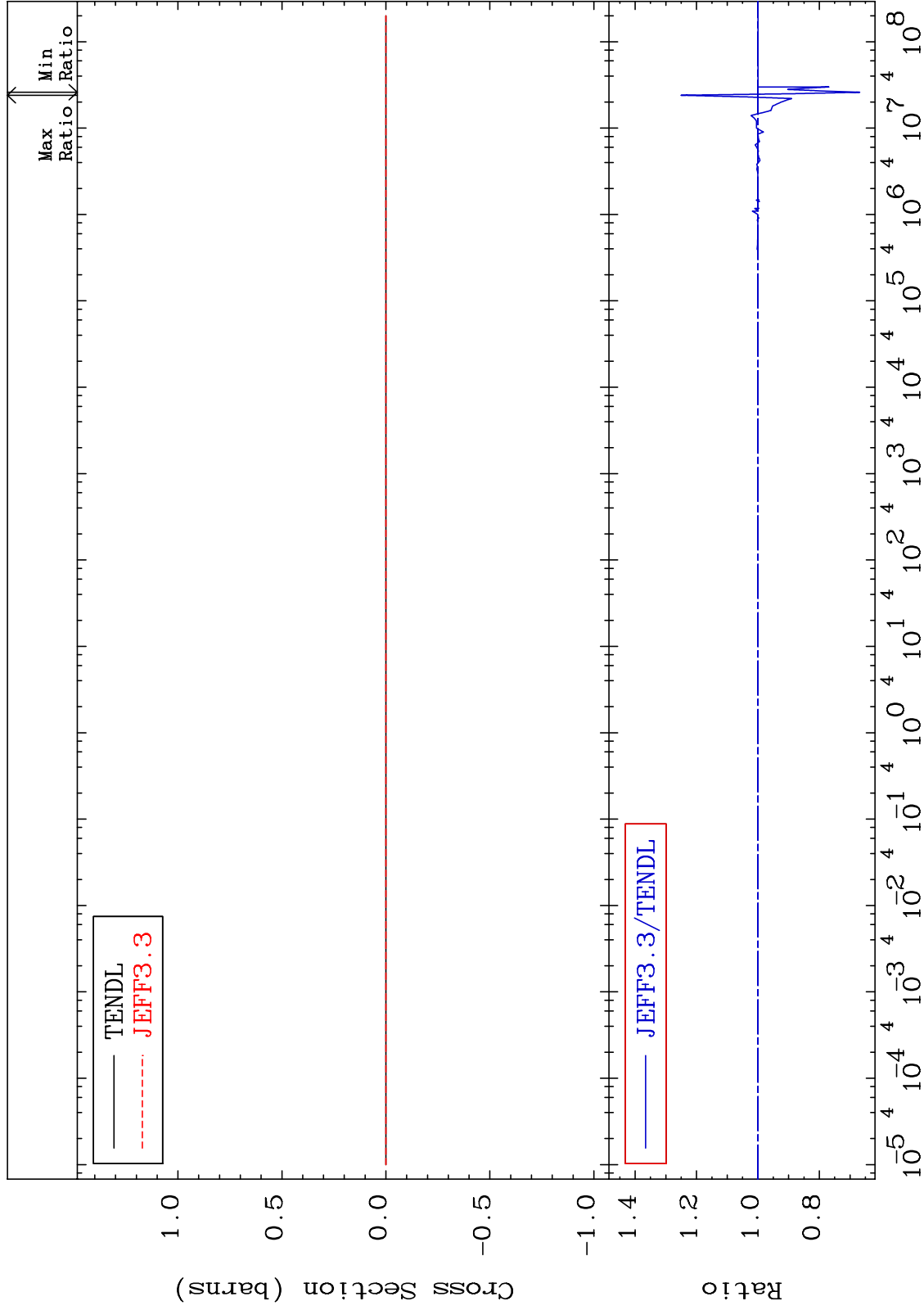
Incident Energy (eV)

38-Sr-87

MAT 3834

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

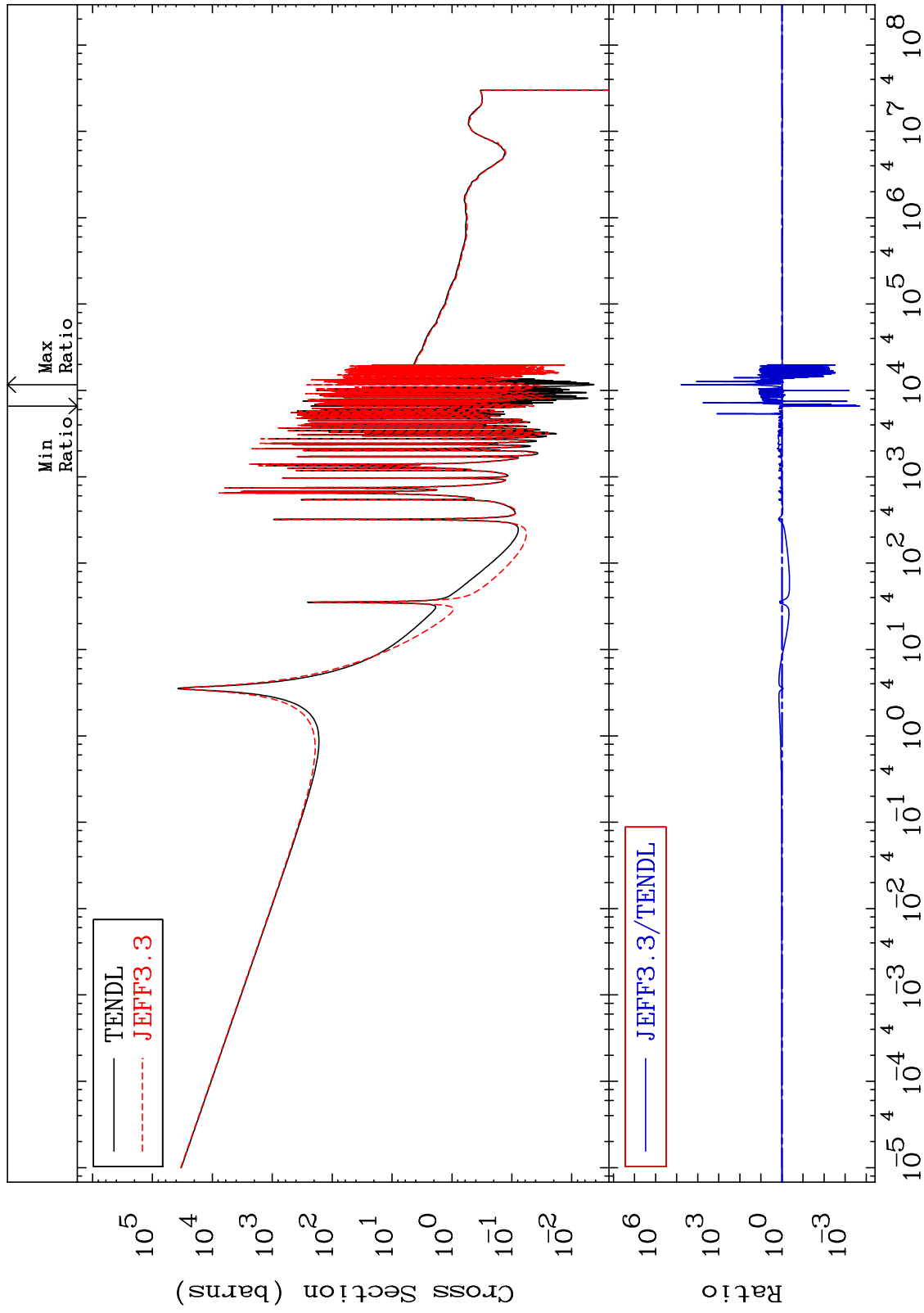
38-Sr-87
-33.18 To 24.98 %



MAT 3834

Kerma capture (mt102)
Cross Section

38-Sr-87
-99.98 To 9999. %



70

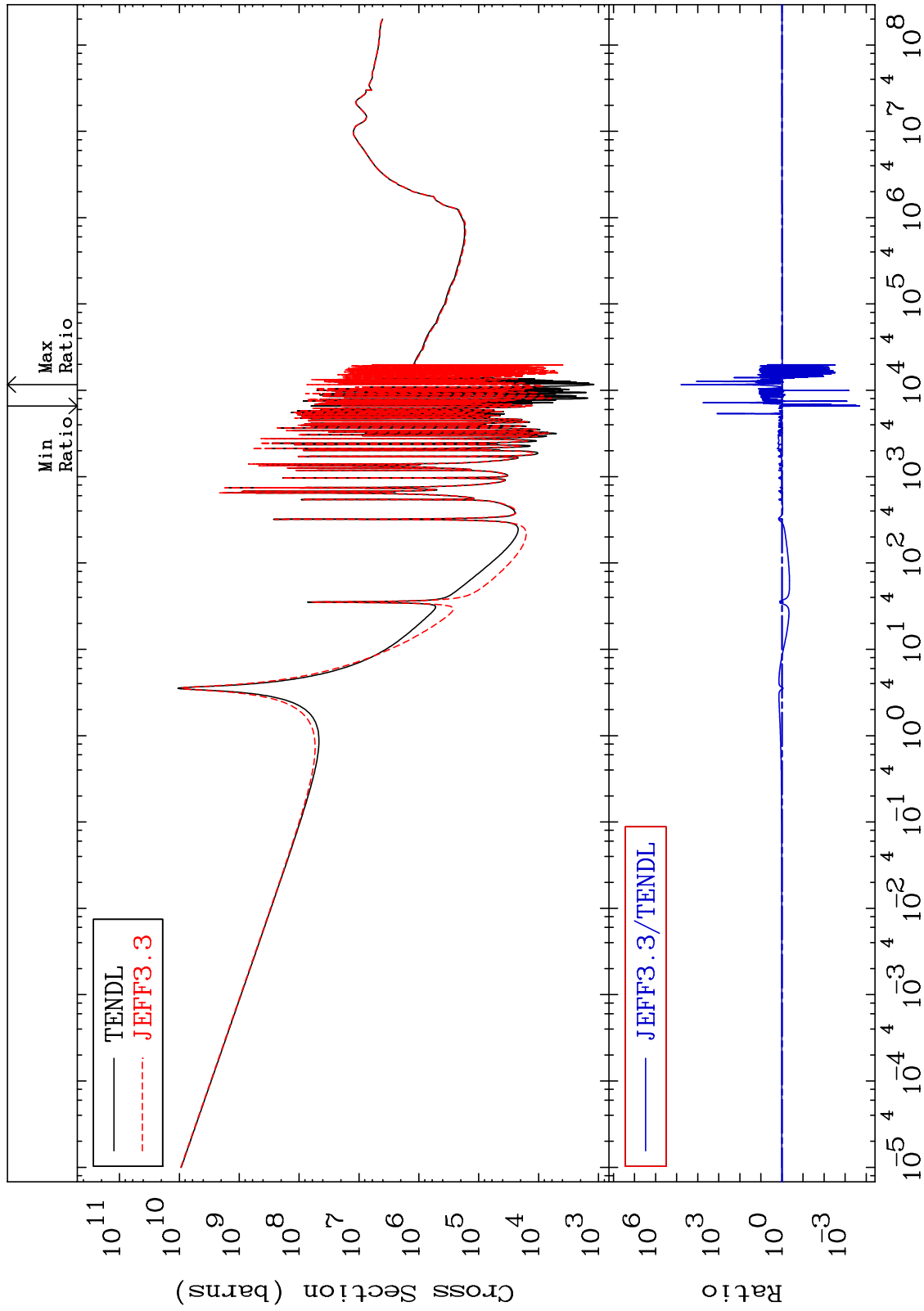
Incident Energy (eV)

38-Sr-87

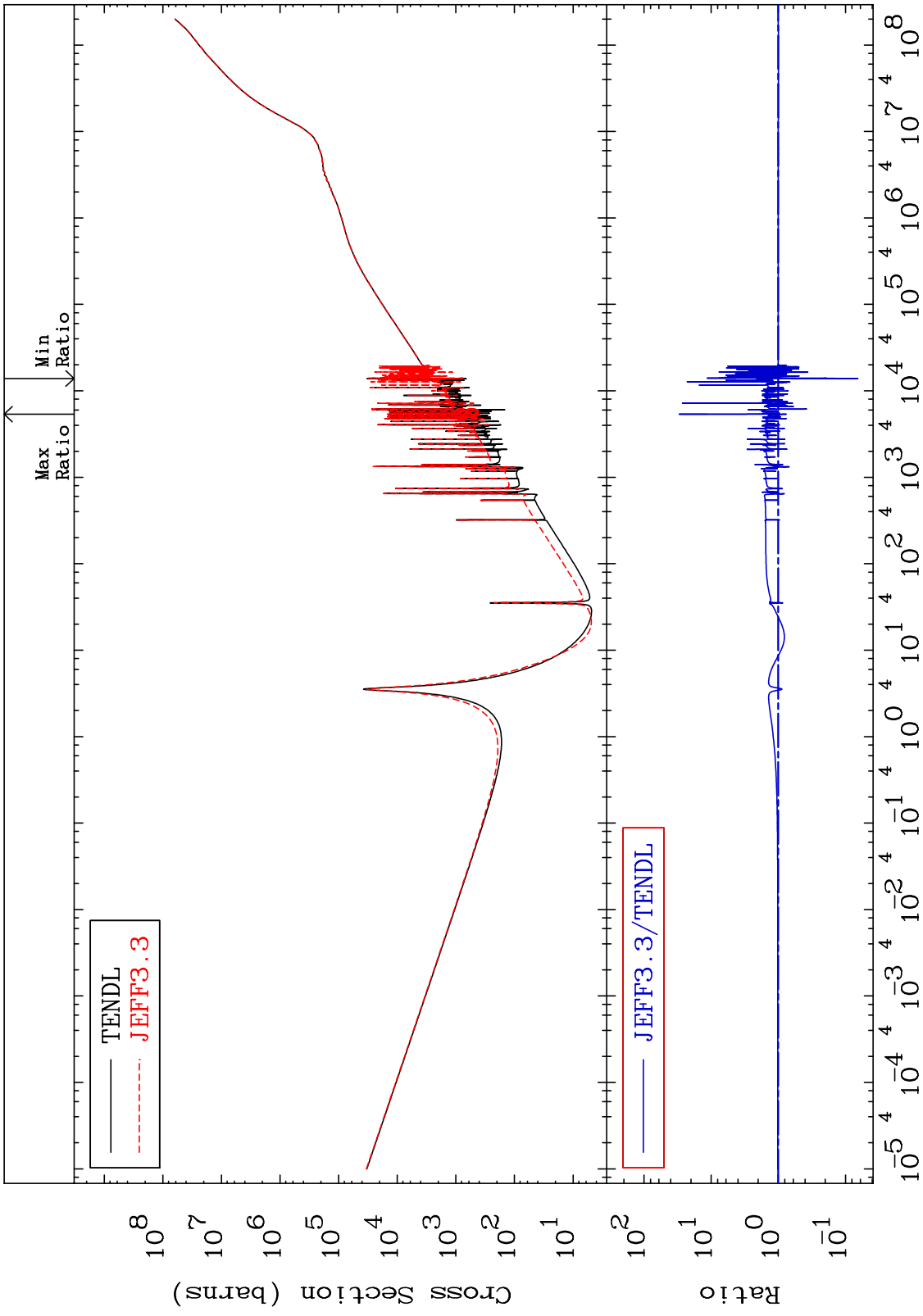
MAT 3834

Total photon (eV-barns)
Cross Section

38-Sr-87
-99.98 To 9999. %



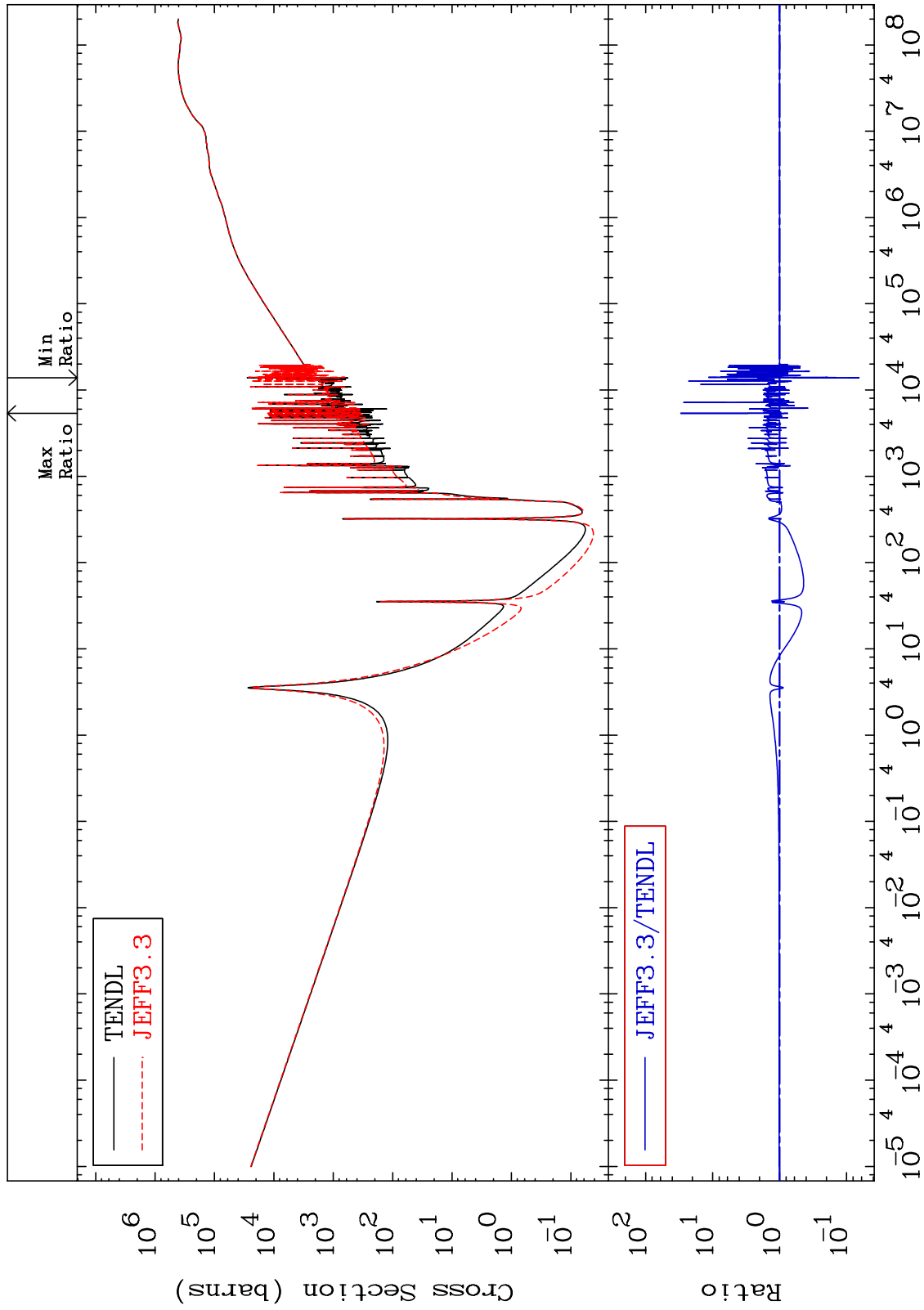
MAT 3834 Total kinematic kerma (high limit) 38-Sr-87
 Cross Section -93.46 To 2911. %



MAT 3834

Dpa total (eV-barns)
Cross Section

38-Sr-87
-93.46 To 2901. %



73

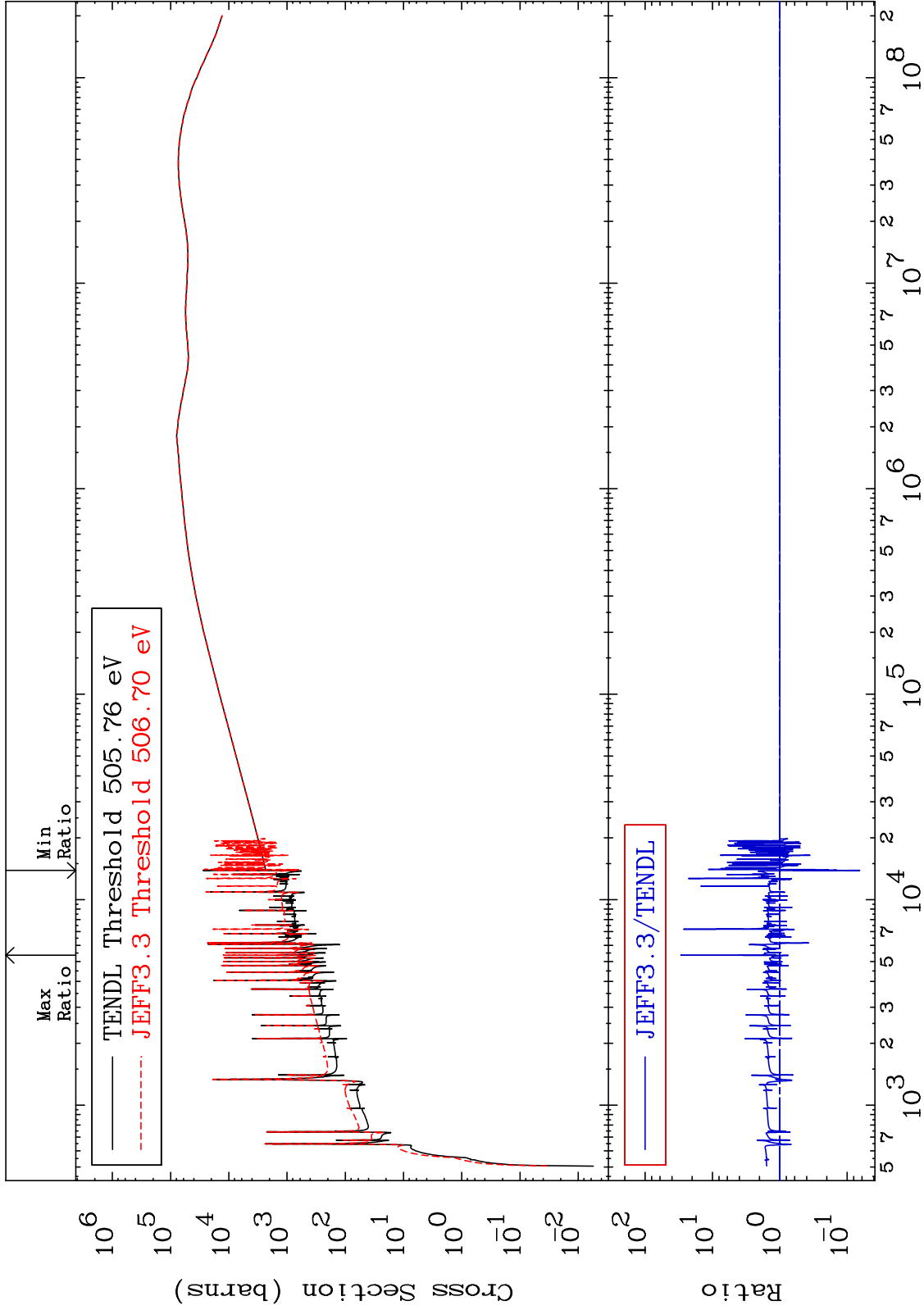
Incident Energy (eV)

38-Sr-87

MAT 3834

Dpa elastic (mt2)
Cross Section

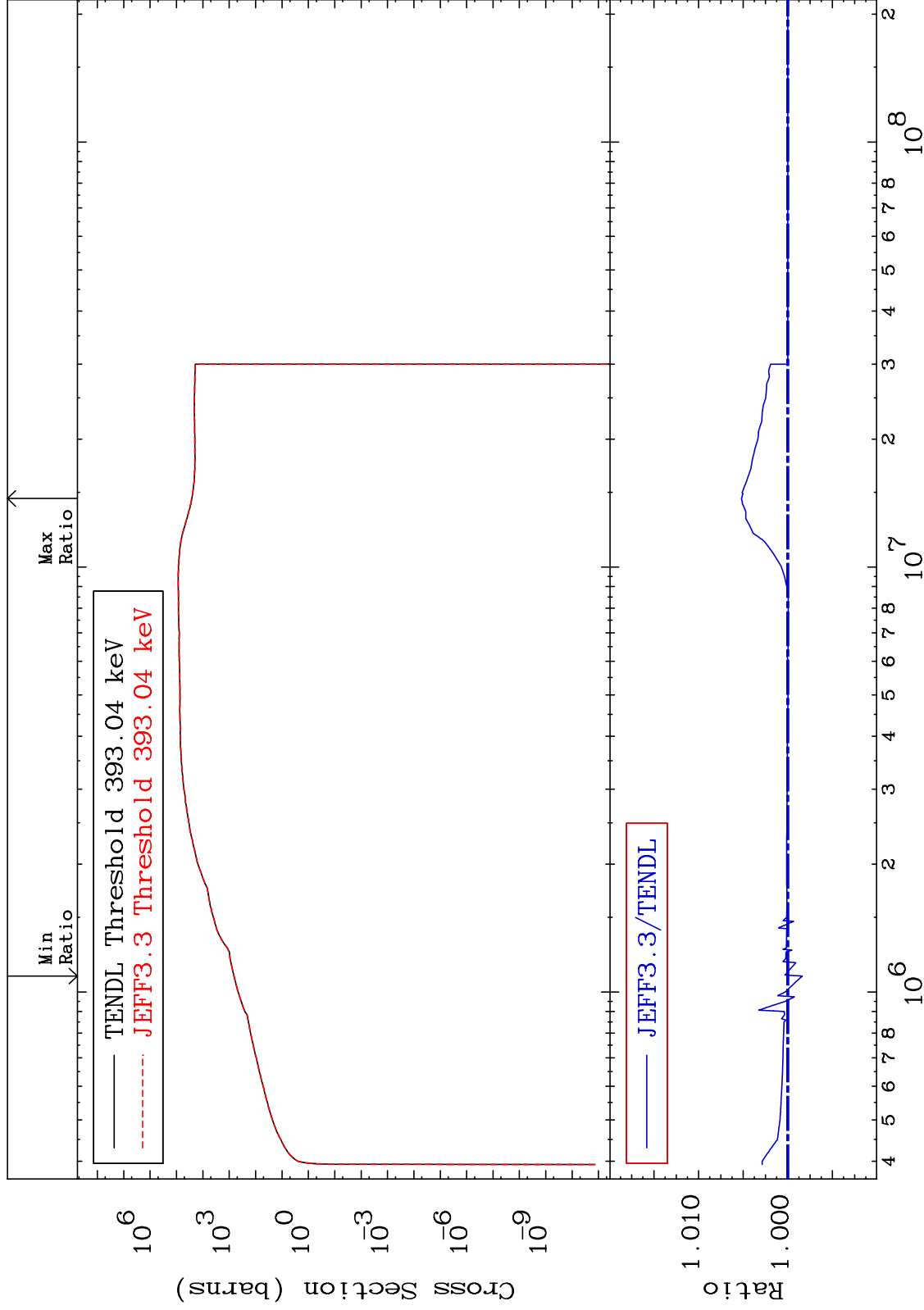
38-Sr-87
-93.48 To 2850. %



MAT 3834

Dpa inelastic (mt51-91)
Cross Section

38-Sr-87
-0.162 To 0.519 %



75

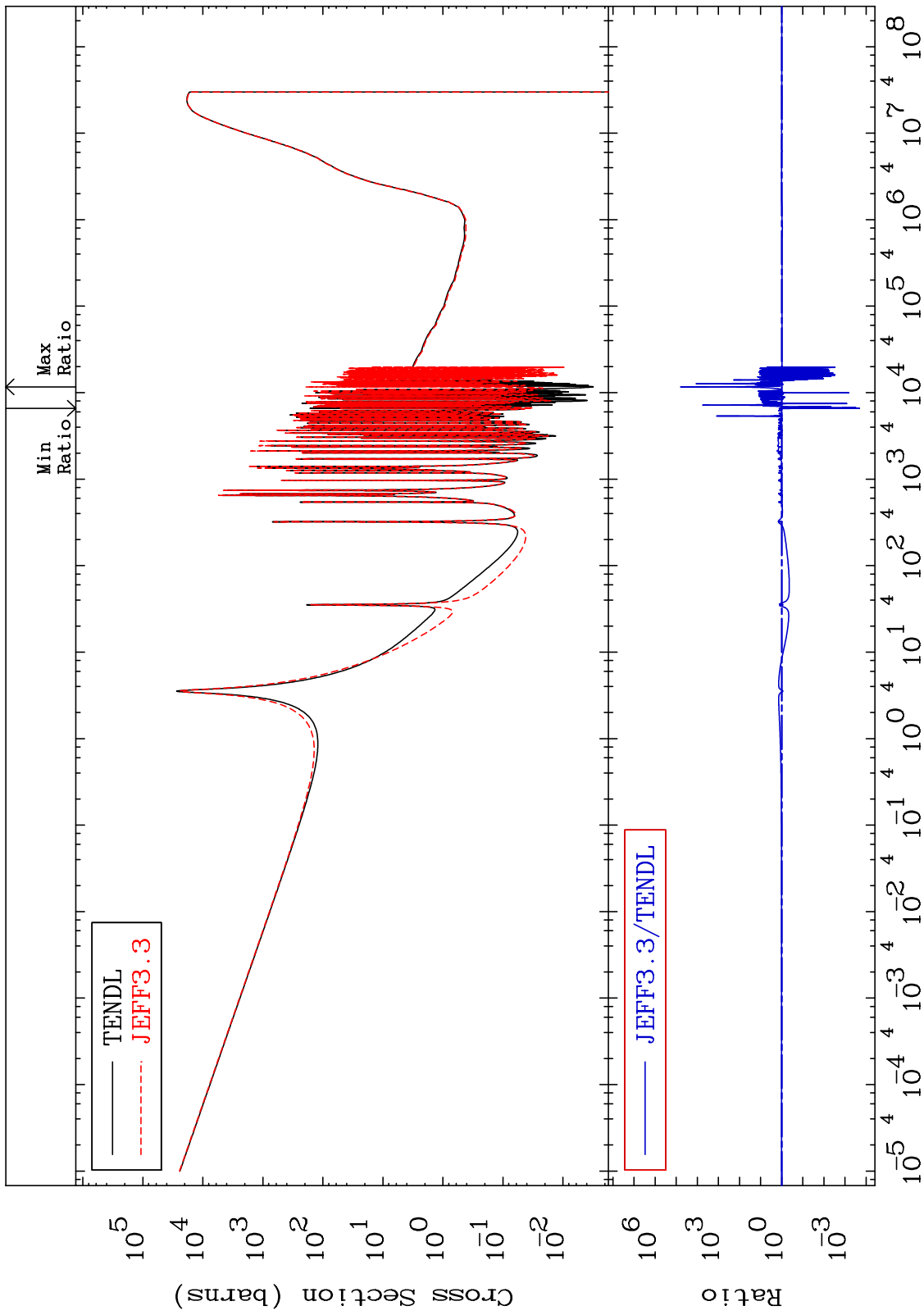
Incident Energy (eV)

38-Sr-87

MAT 3834

Dpa disappearance (mt102 -120)
Cross Section

38-Sr-87
-99.98 To 9999. %



76

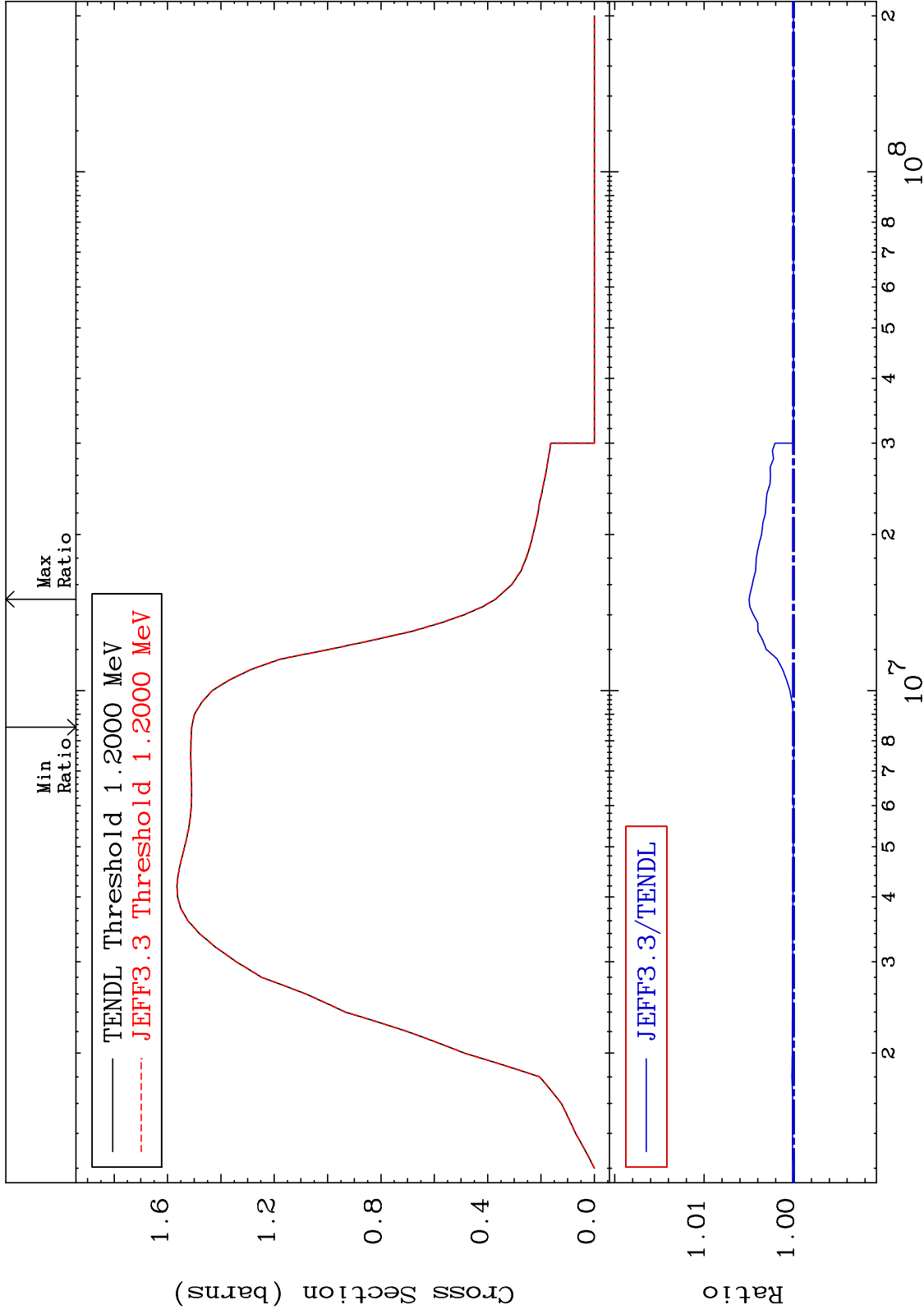
Incident Energy (eV)

38-Sr-87

MAT 3834

Inelastic: 38-Sr-87g
Radionuclide Production Cross Section -0.007 To 0.498 %

38-Sr-87



77

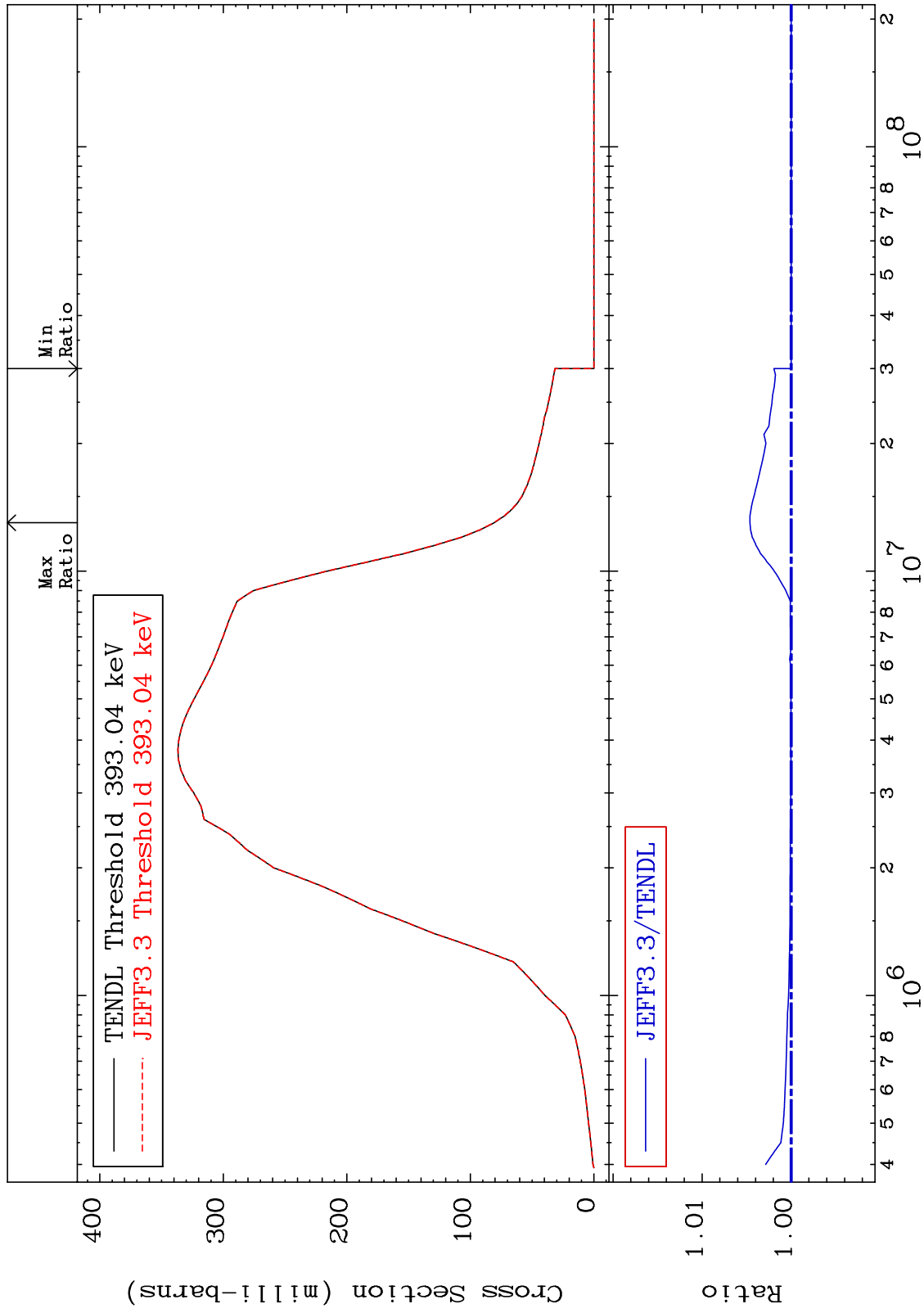
Incident Energy (eV)

38-Sr-87

MAT 3834

Inelastic: 38-Sr-87m1
Radionuclide Production Cross Section 0.000 To 0.463 %

38-Sr-87



78

Incident Energy (eV)

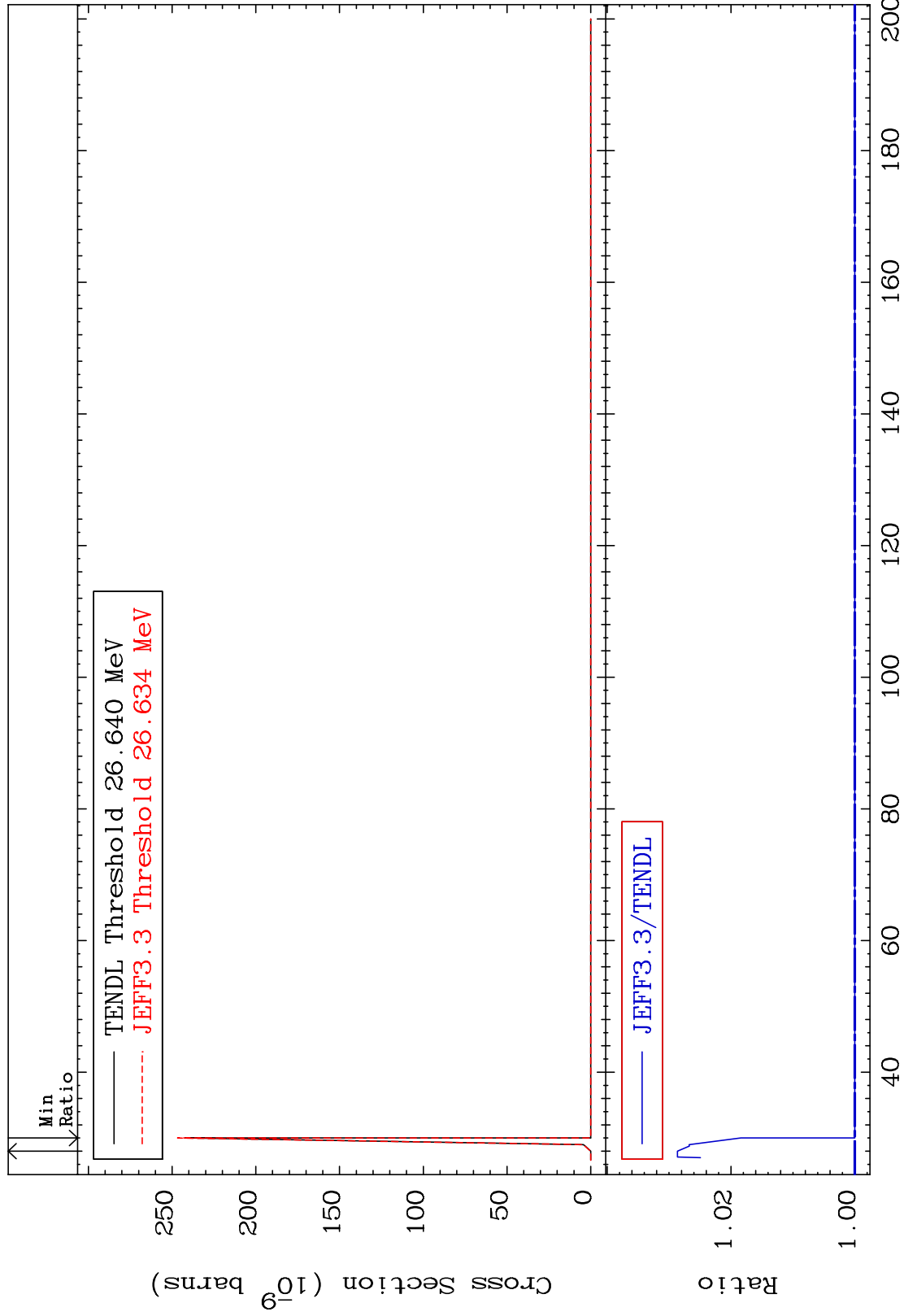
38-Sr-87

MAT 3834

(n,2n) d:37-Rb-84g

38-Sr-87

Radionuclide Production Cross Section 0.000 To 2.864 %



79

Incident Energy (MeV)

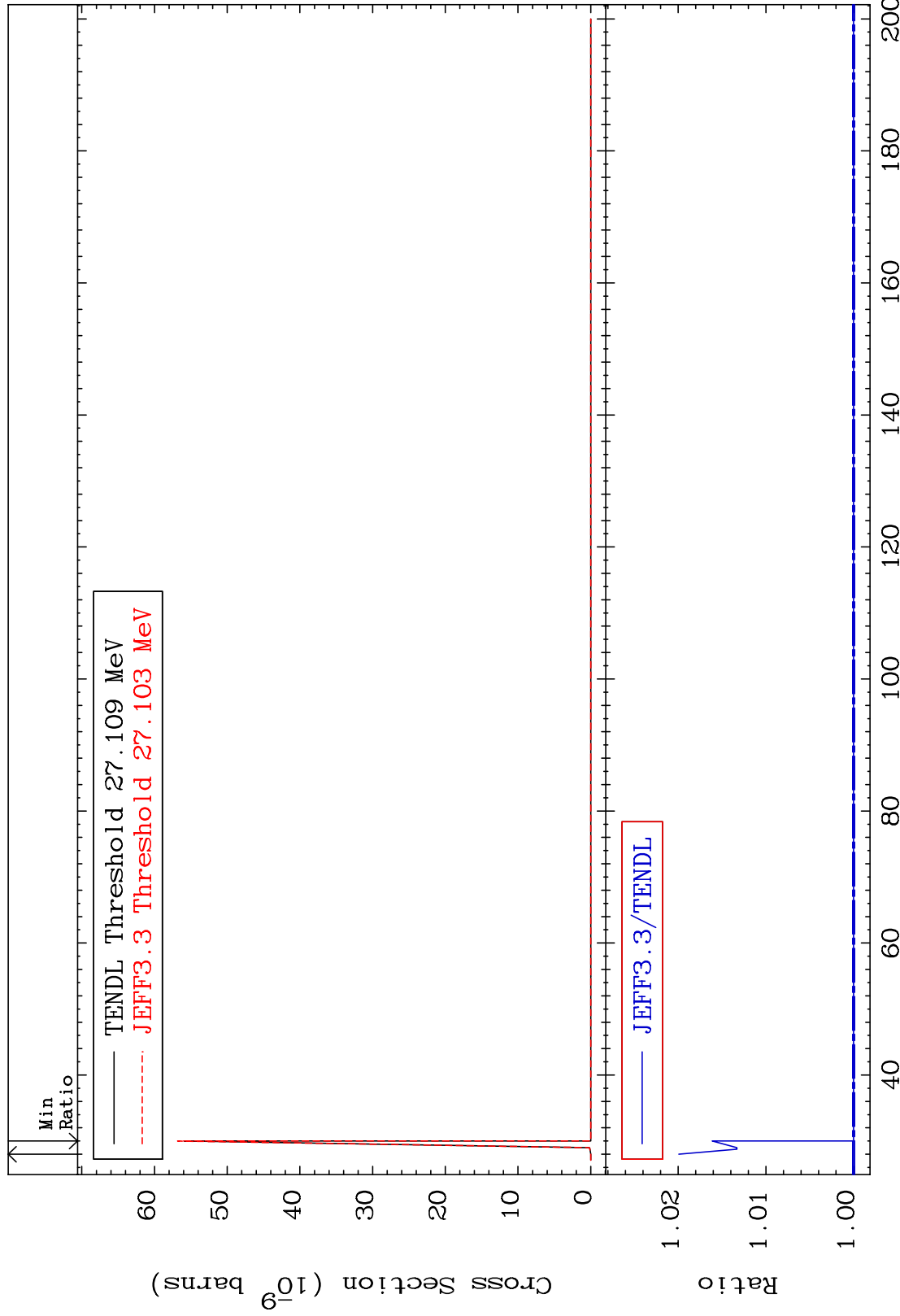
38-Sr-87

MAT 3834

(n,2n) d:37-Rb-84m2

38-Sr-87

Radionuclide Production Cross Section 0.000 To 1.992 %



80

Incident Energy (MeV)

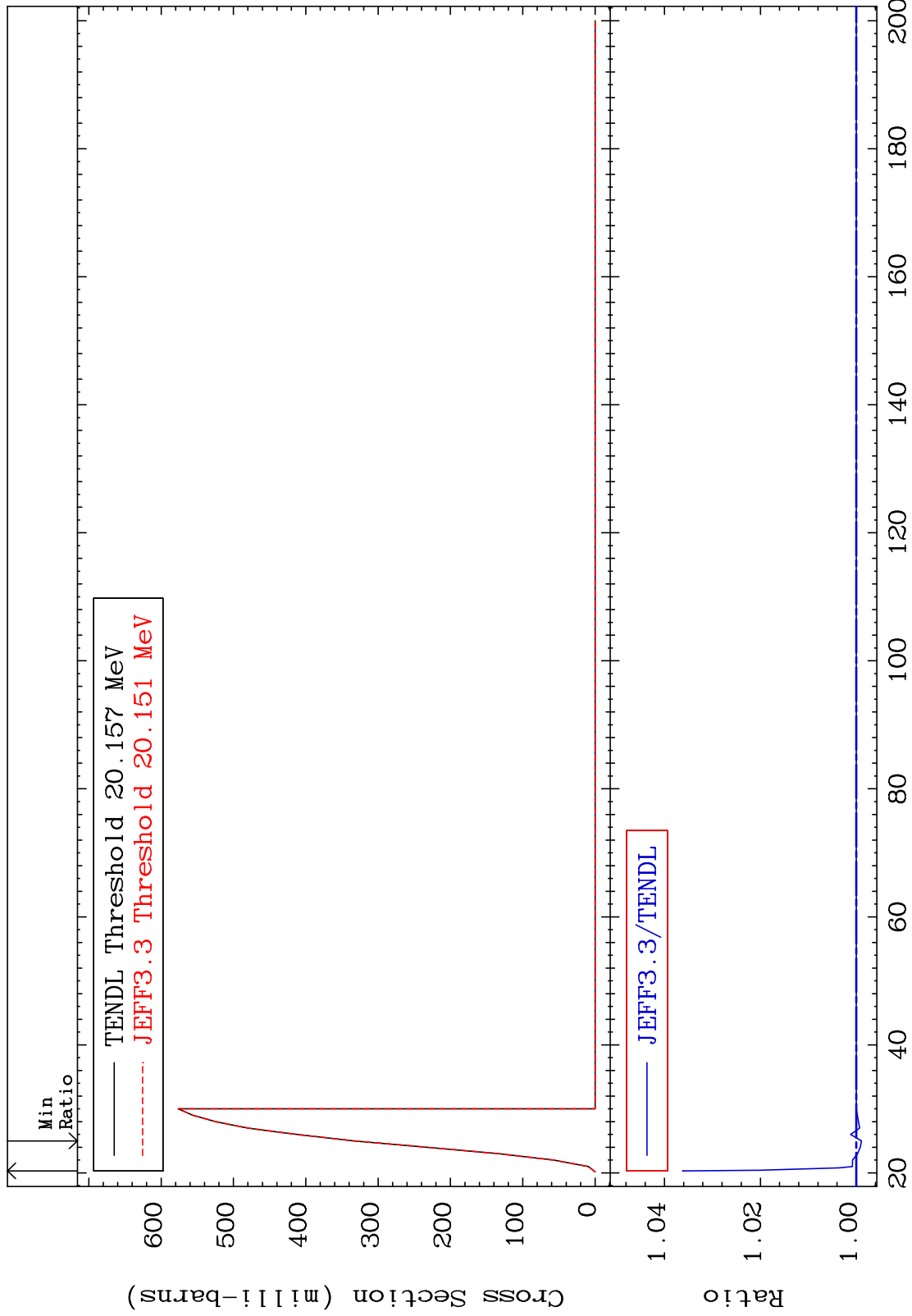
38-Sr-87

MAT 3834

(n,3n):38-Sr-85g

38-Sr-87

Radionuclide Production Cross Section -0.109 To 3.619 %



81

Incident Energy (MeV)

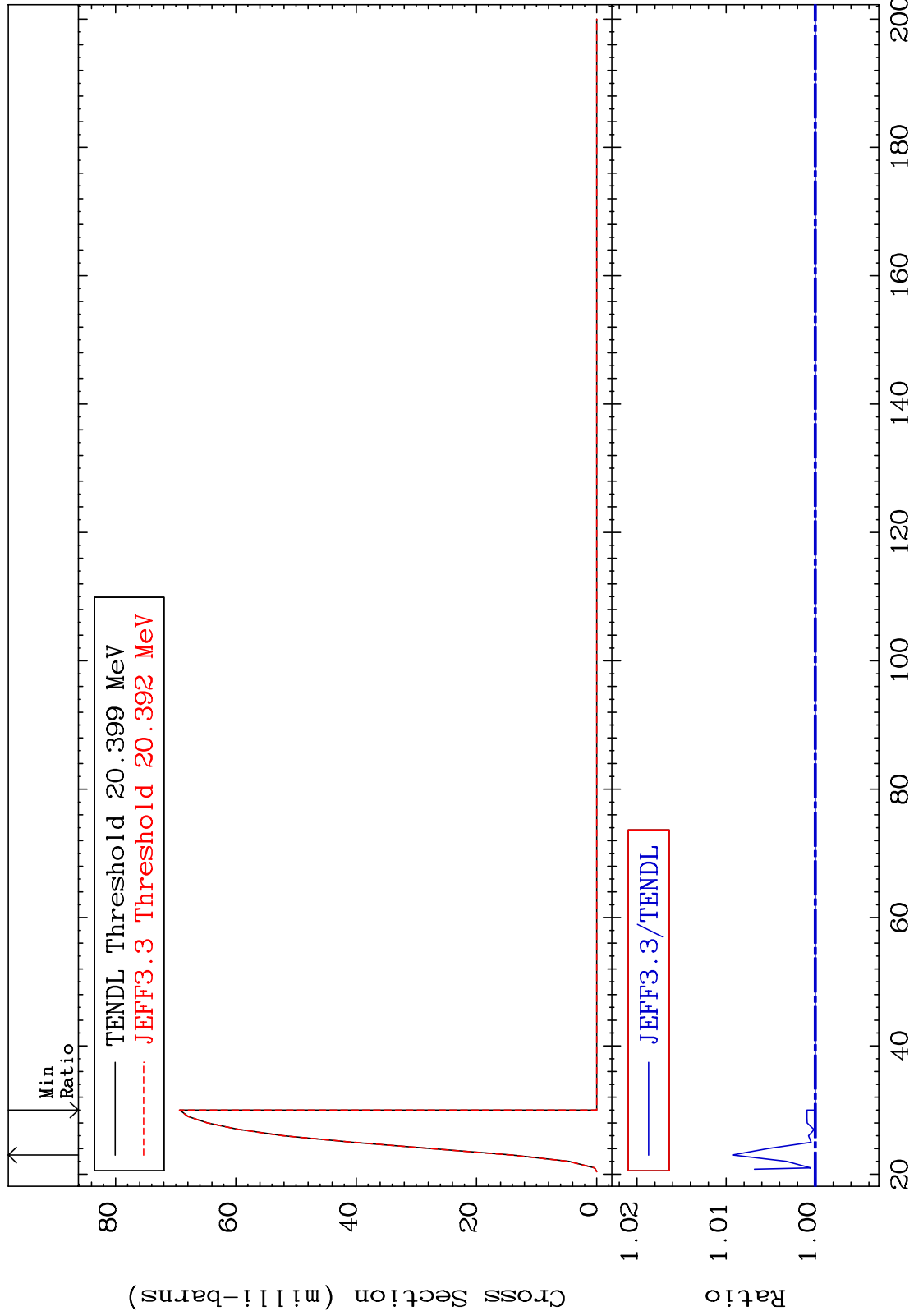
38-Sr-87

MAT 3834

(n,3n):38-Sr-85m2

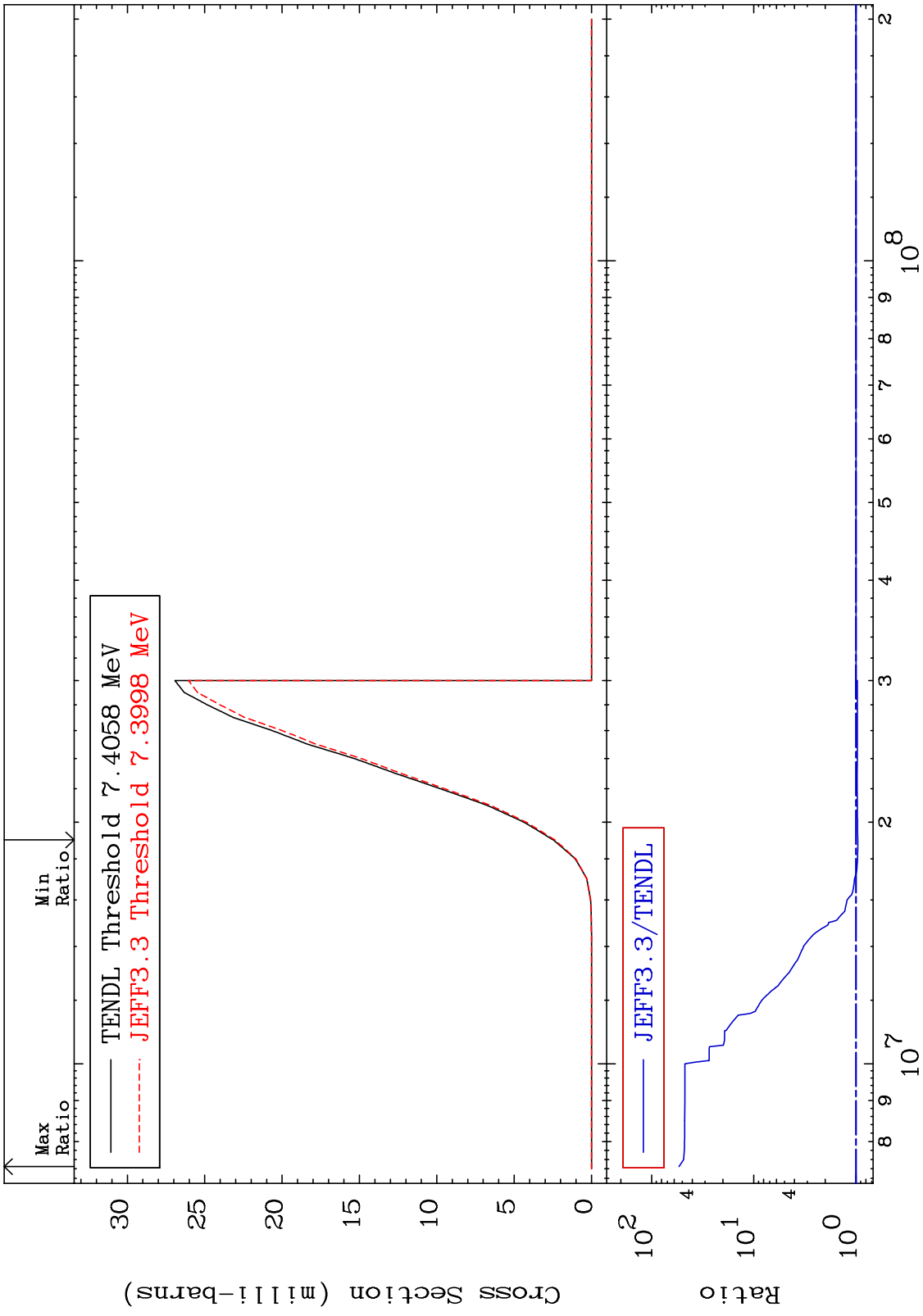
38-Sr-87

Radionuclide Production Cross Section 0.000 To 0.929 %



82

38-Sr-87

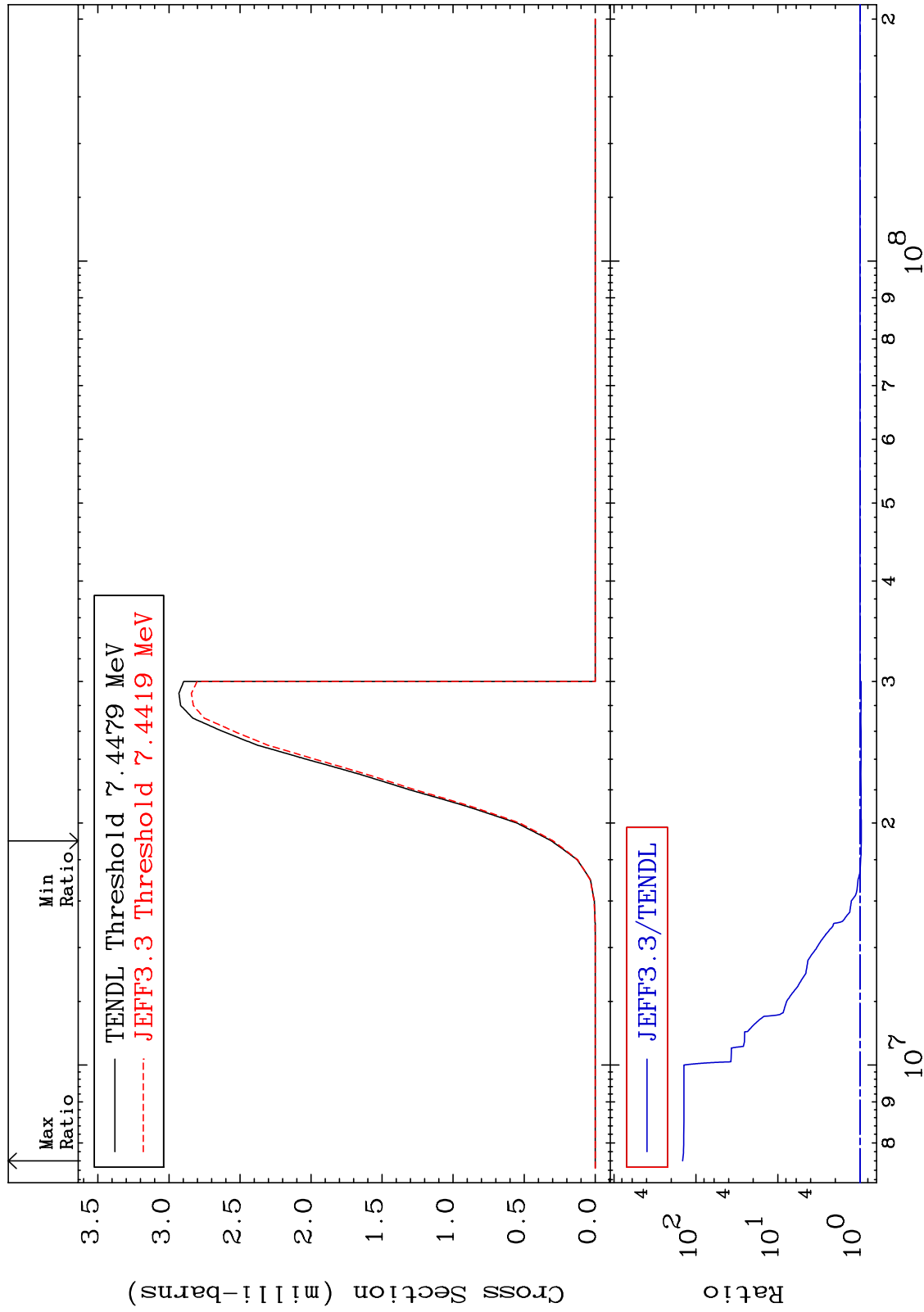


MAT 3834

(n, n') α :36-Kr-83m2

38-Sr-87

Radionuclide Production Cross Section -3.953 To 9999. %

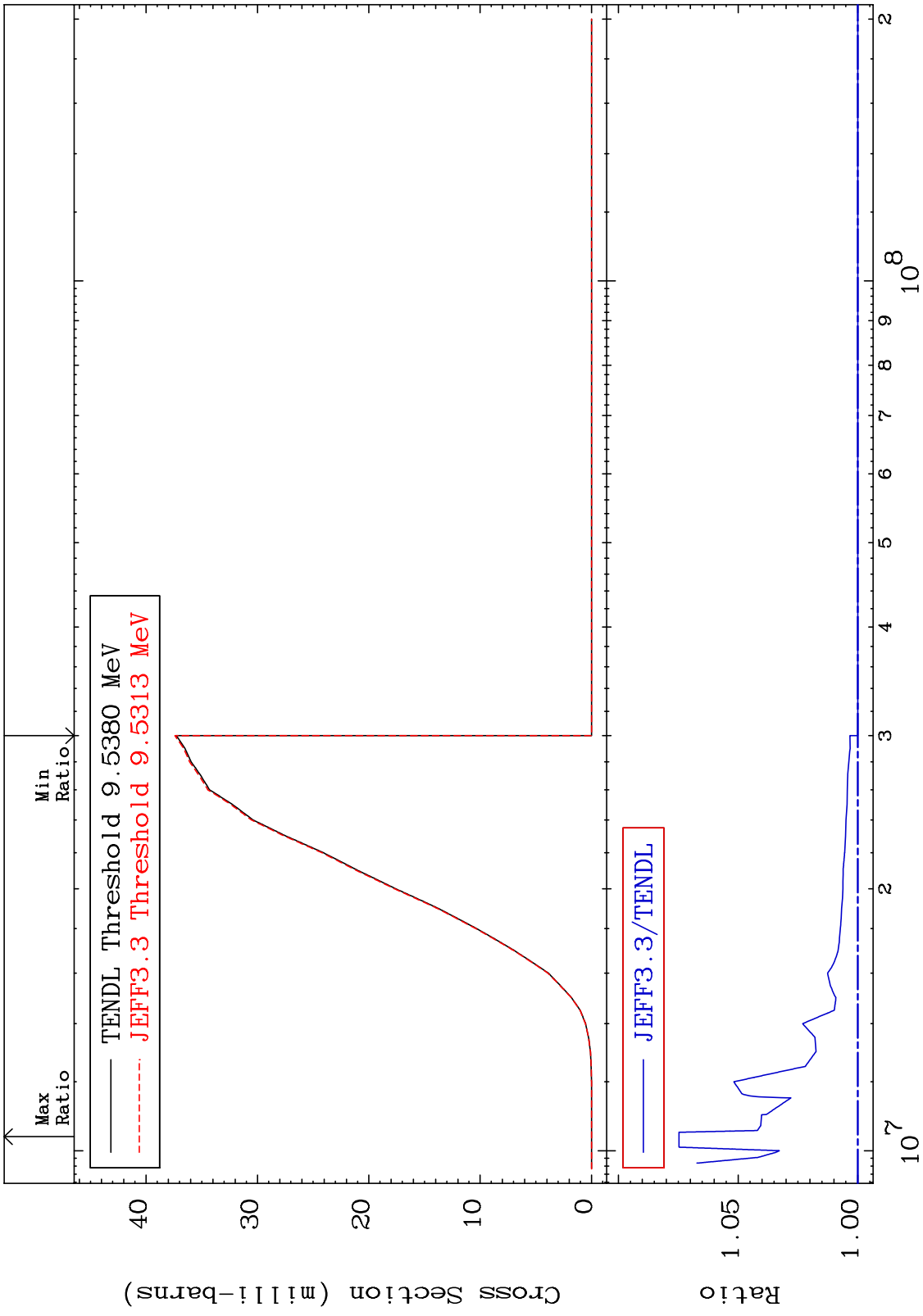


84

Incident Energy (eV)

38-Sr-87

MAT 3834 (n, n') p:37-Rb-86g 38-Sr-87
 Radionuclide Production Cross Section 0.000 To 7.468 %



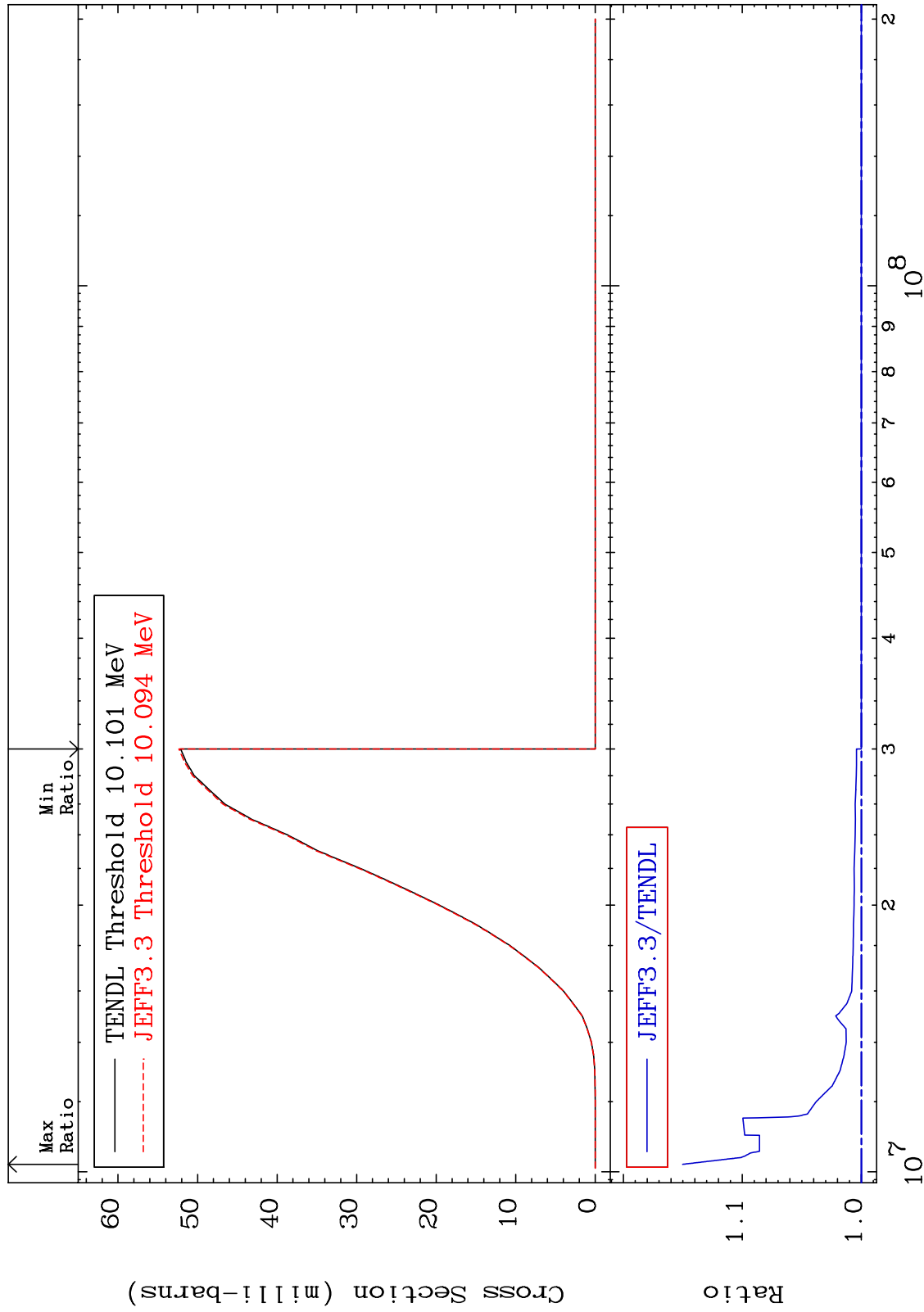
85 38-Sr-87

MAT 3834

(n, n') p:37-Rb-86m2

38-Sr-87

Radionuclide Production Cross Section 0.000 To 15.01 %



86

Incident Energy (eV)

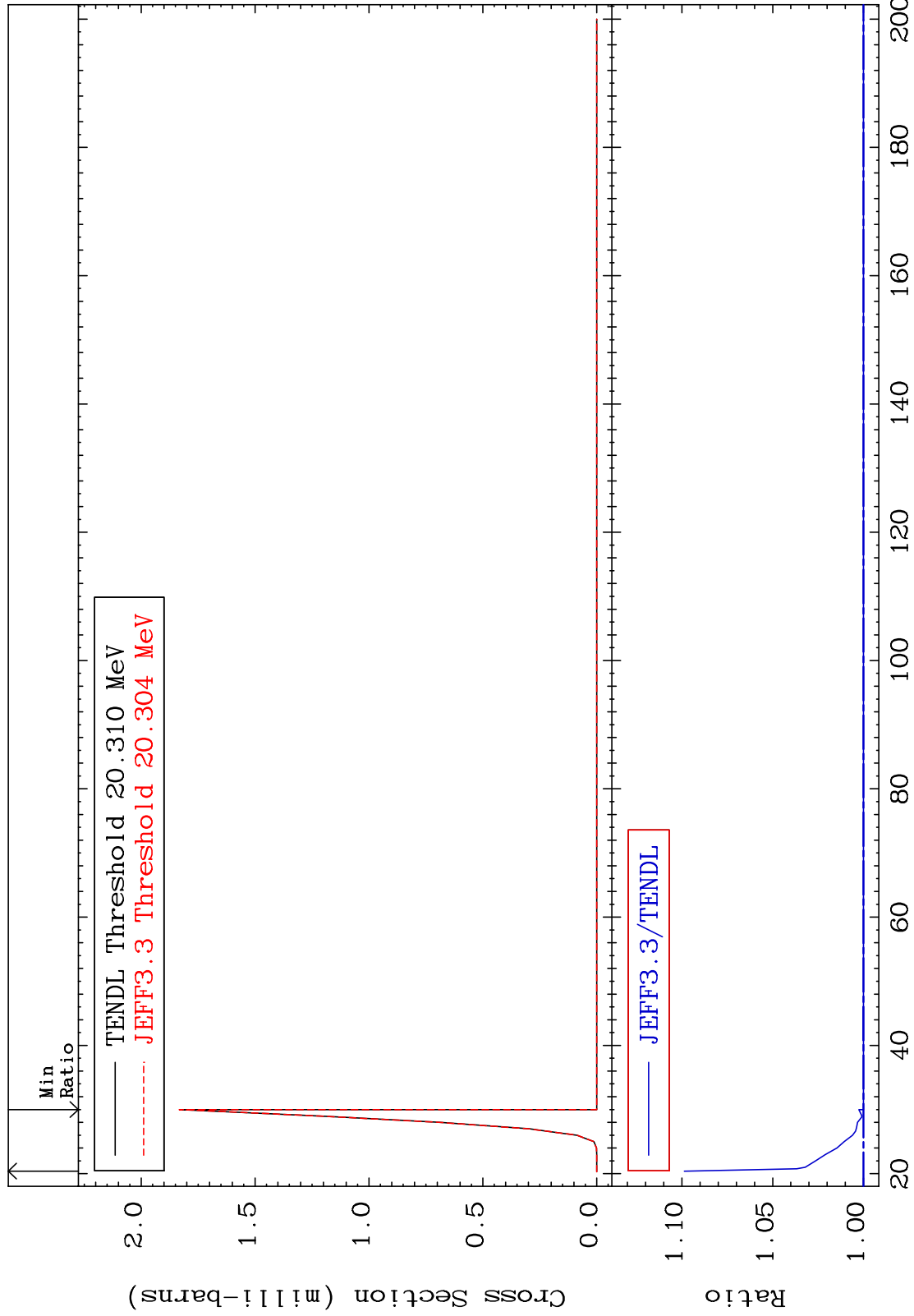
38-Sr-87

MAT 3834

(n, n') t: 37-Rb-84g

38-Sr-87

Radionuclide Production Cross Section 0.000 To 9.861 %



87

Incident Energy (MeV)

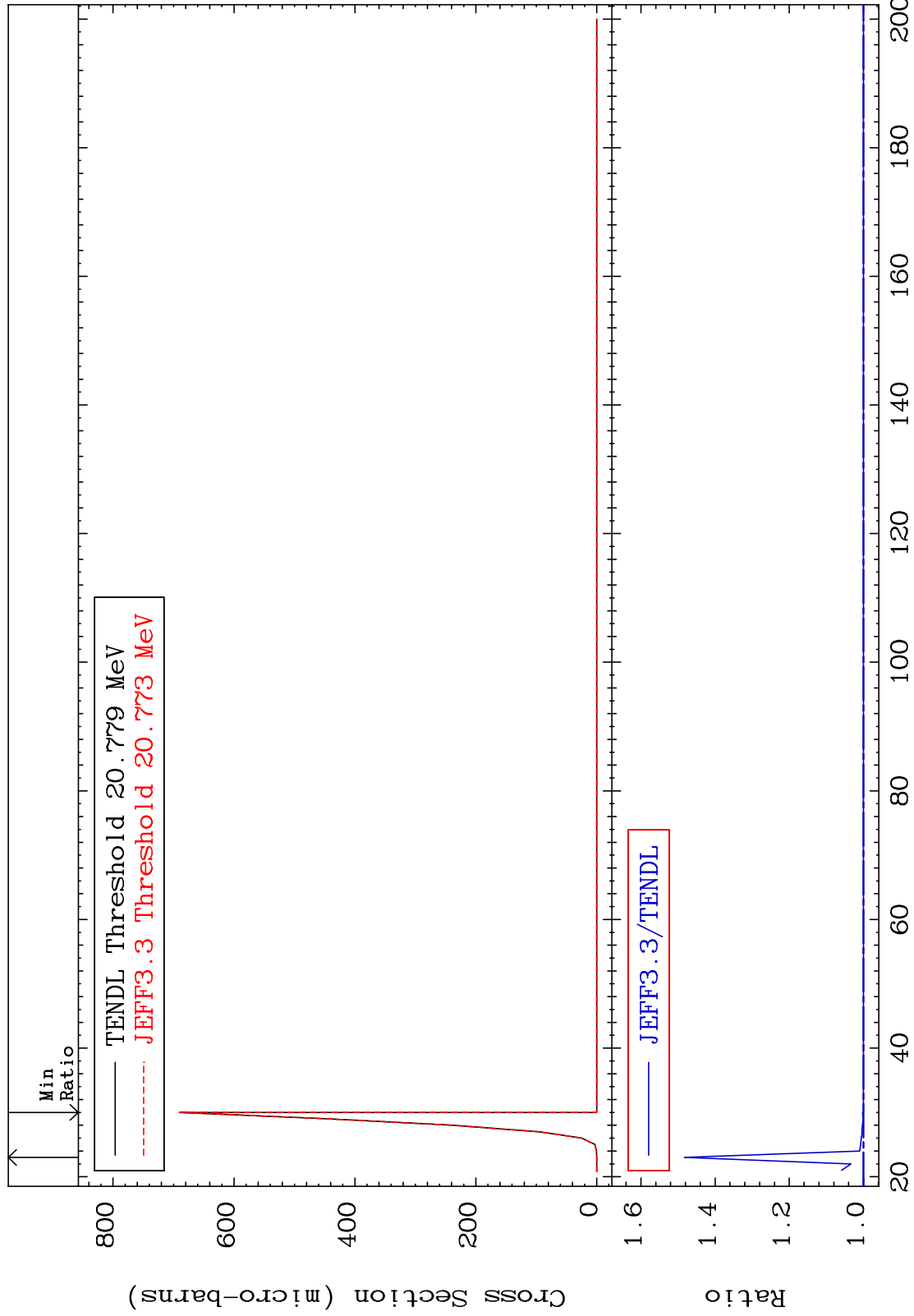
38-Sr-87

MAT 3834

(n, n') t:37-Rb-84m2

38-Sr-87

Radionuclide Production Cross Section 0.000 To 48.29 %



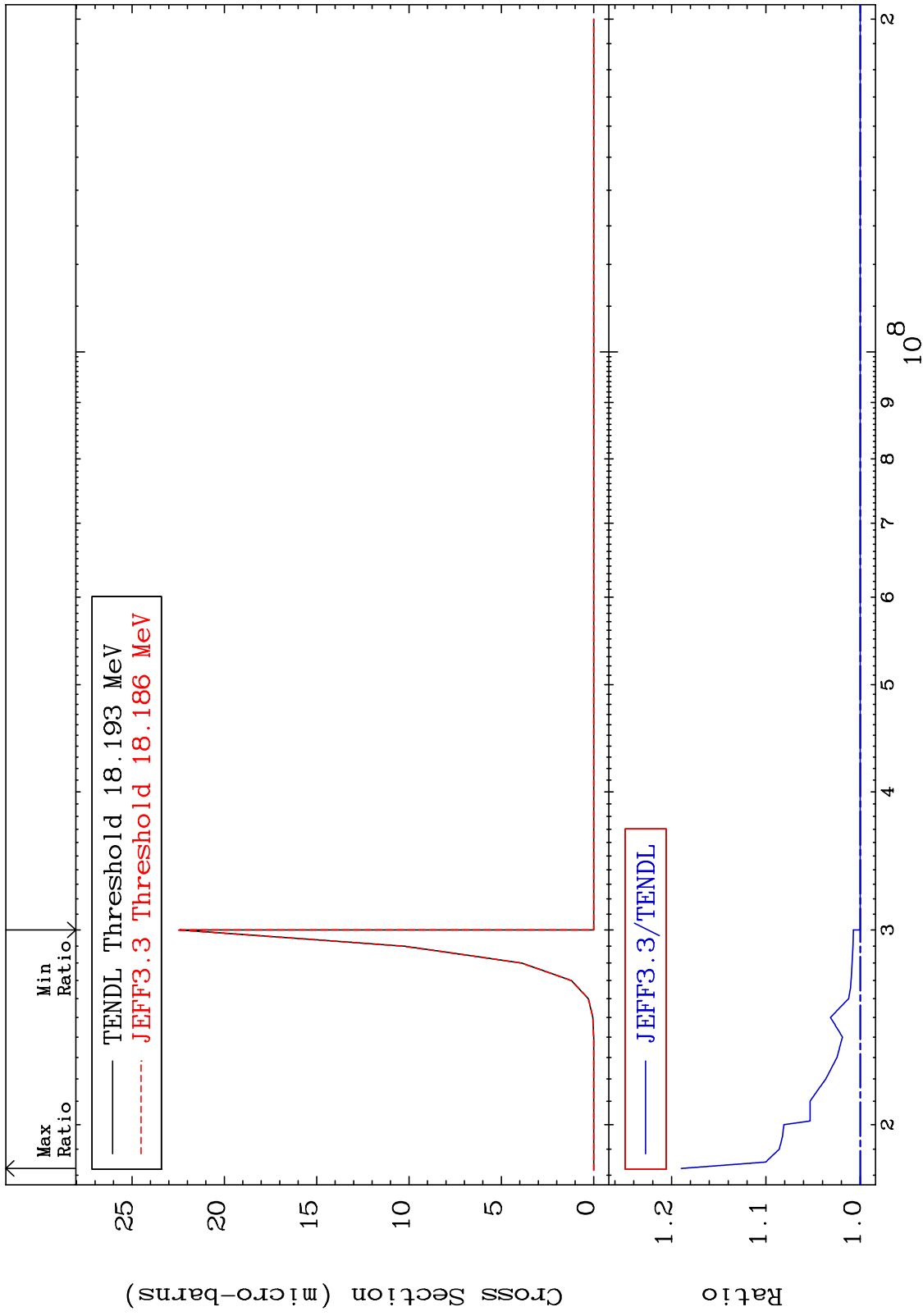
88

Incident Energy (MeV)

38-Sr-87

MAT 3834

(n,2n) p:36-Kr-85g 38-Sr-87
Radionuclide Production Cross Section 0.000 To 18.97 %

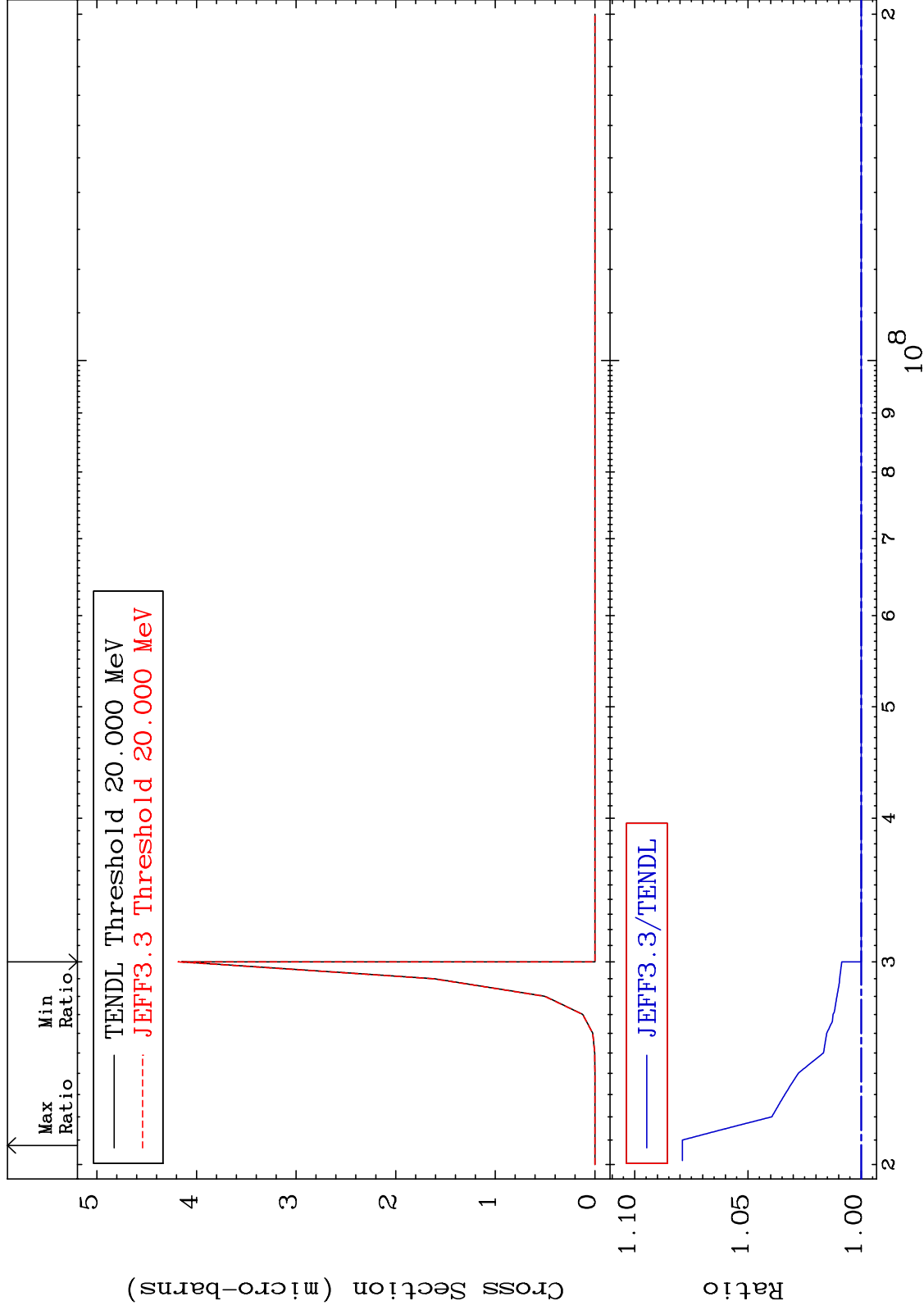


MAT 3834

(n,2n) p:36-Kr-85m1

38-Sr-87

Radionuclide Production Cross Section 0.000 To 7.895 %

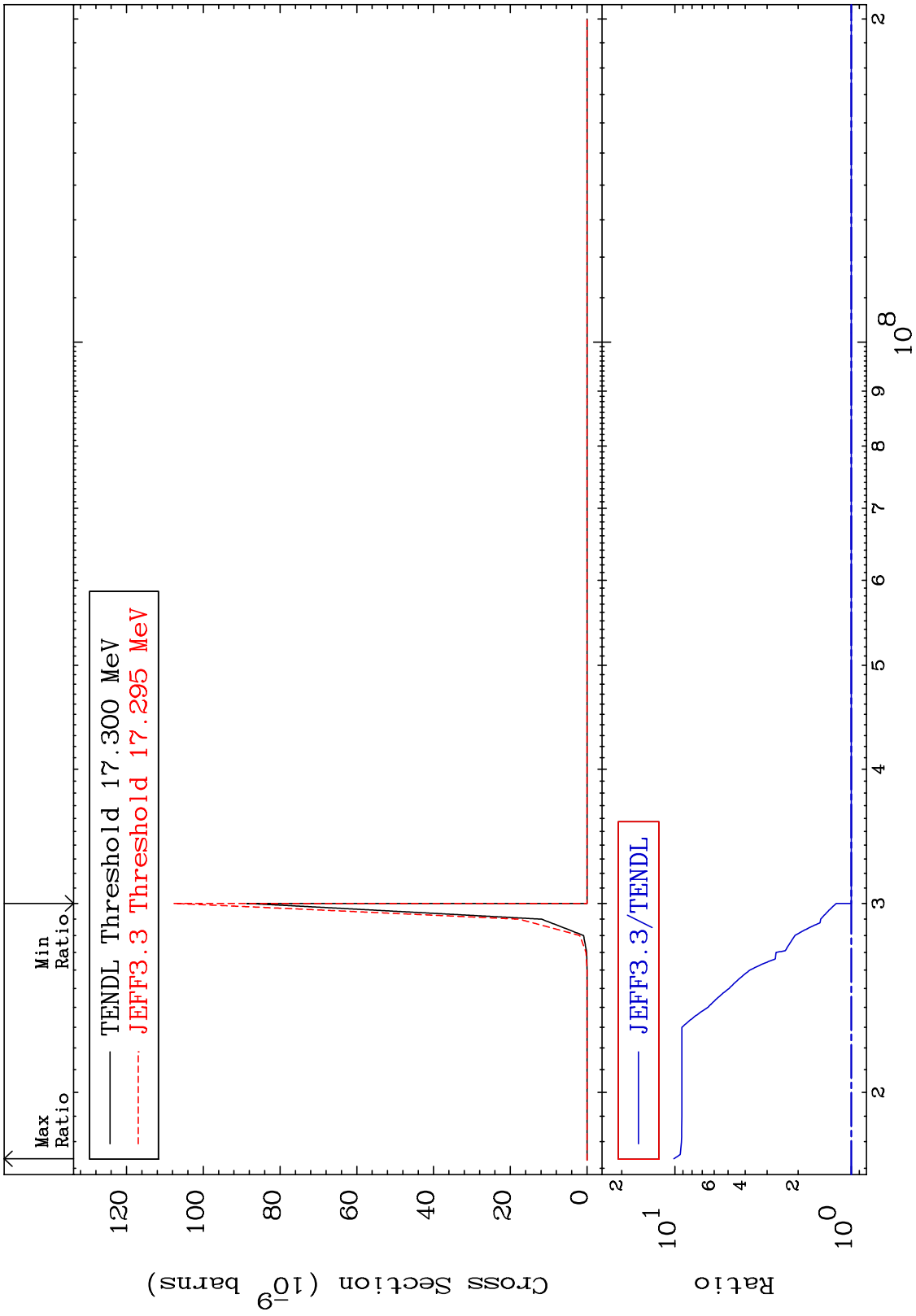


90

Incident Energy (eV)

38-Sr-87

MAT 3834 (n,n') p α :35-Br-82g 38-Sr-87
 Radionuclide Production Cross Section 0.000 To 913.9 %

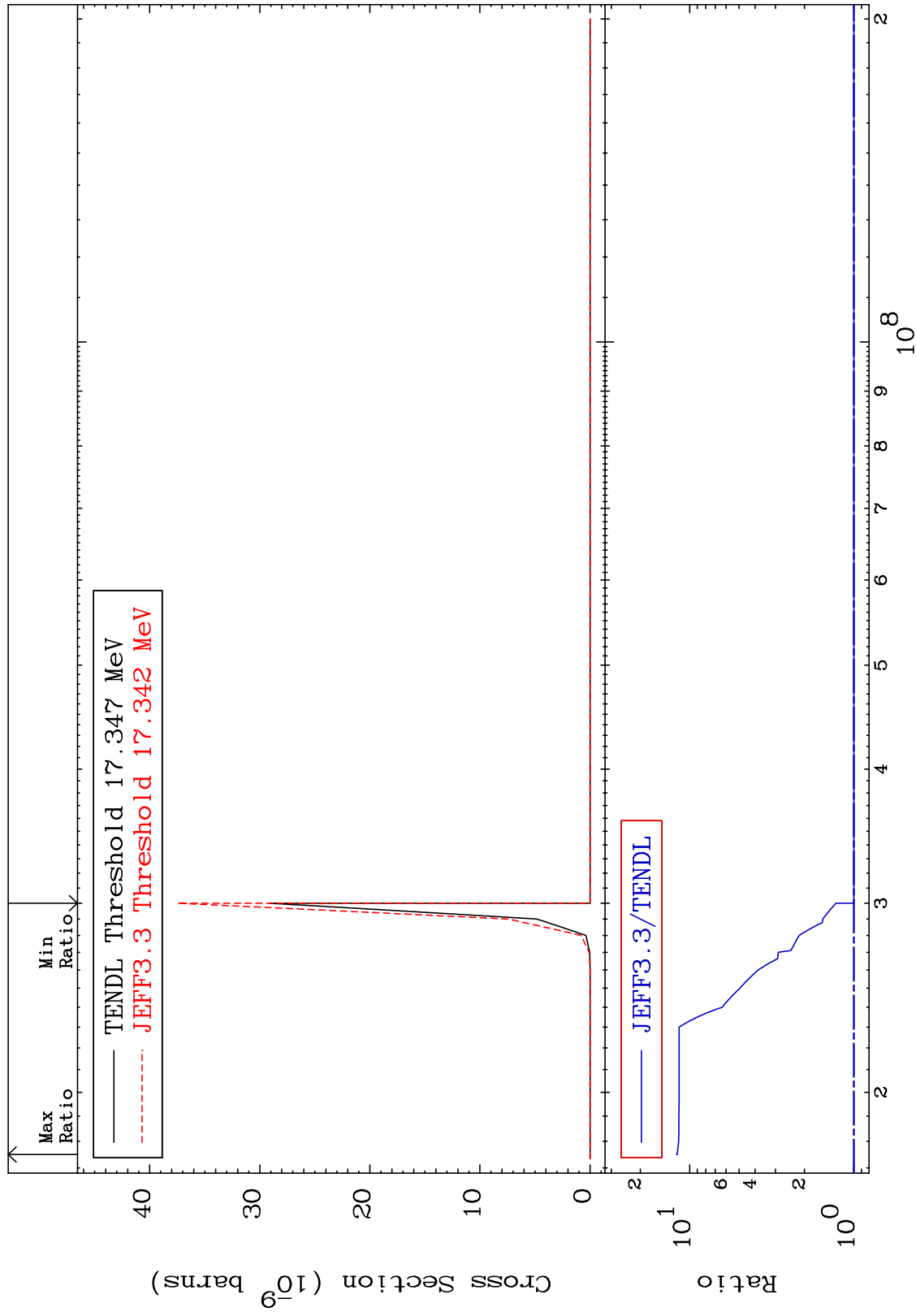


MAT 3834

(n,n') p α :35-Br-82m1

38-Sr-87

Radionuclide Production Cross Section 0.000 To 1099. %

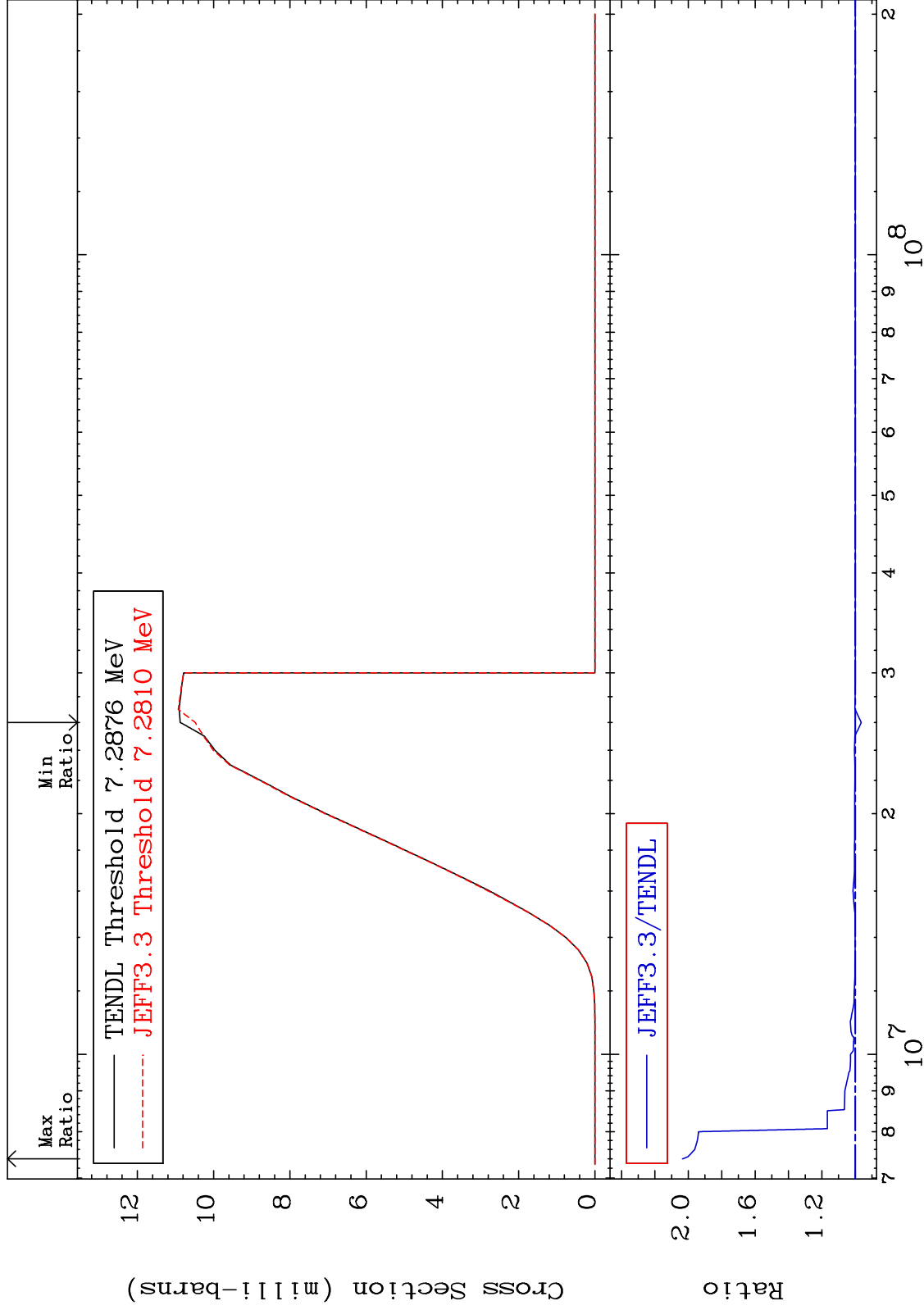


MAT 3834

(n,d):37-Rb-86g

38-Sr-87

Radionuclide Production Cross Section -3.589 To 103.5 %

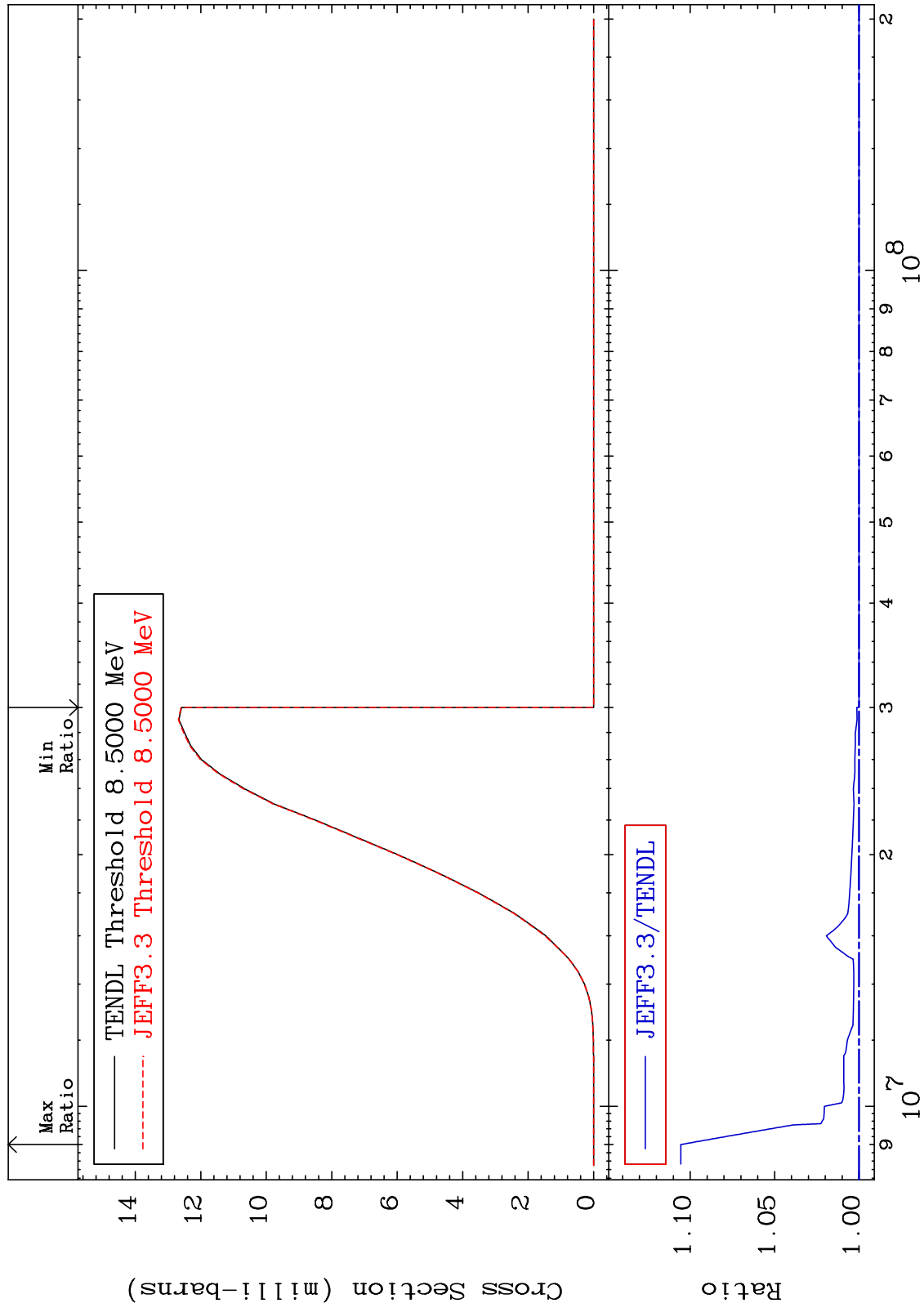


93

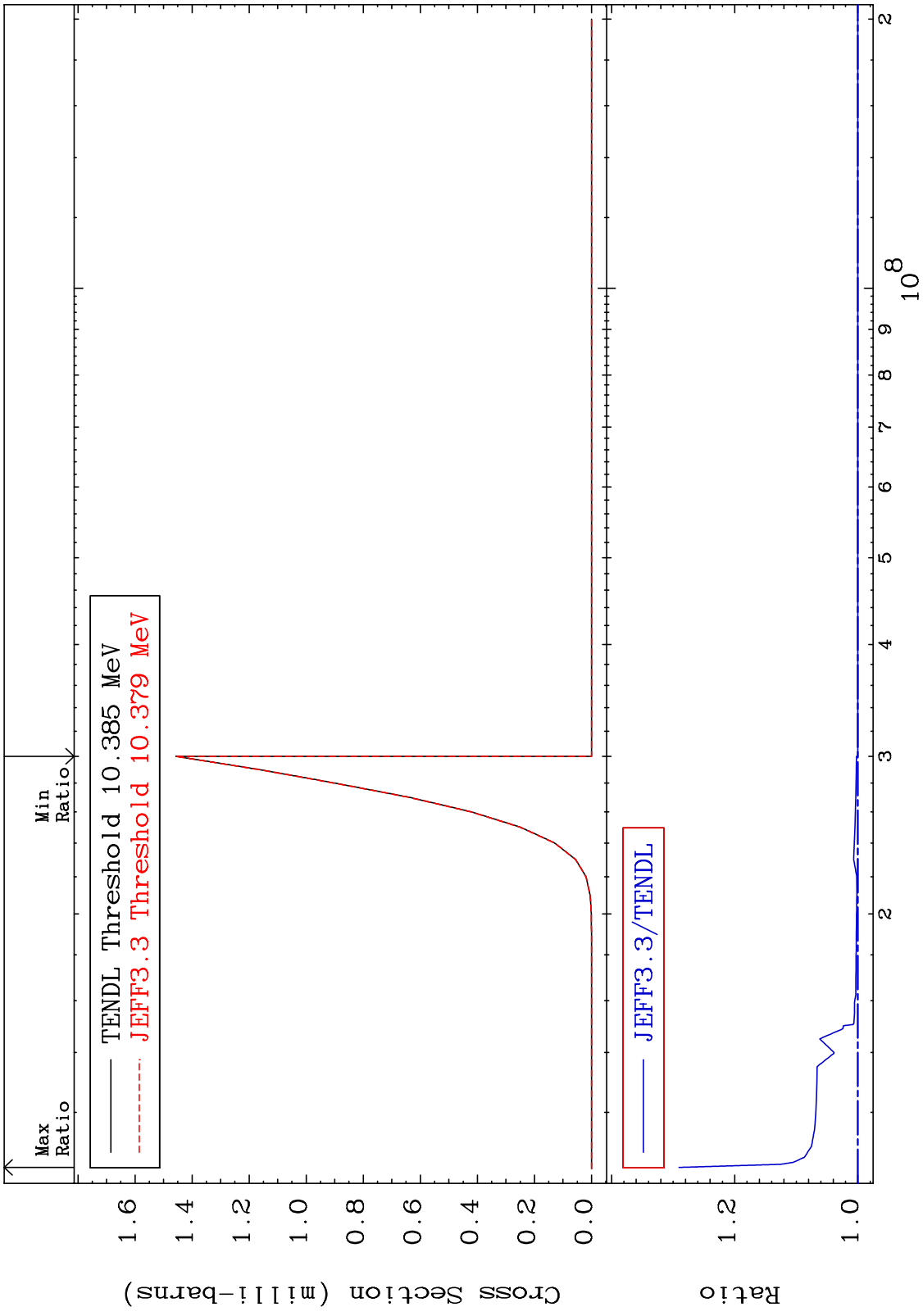
Incident Energy (eV)

38-Sr-87

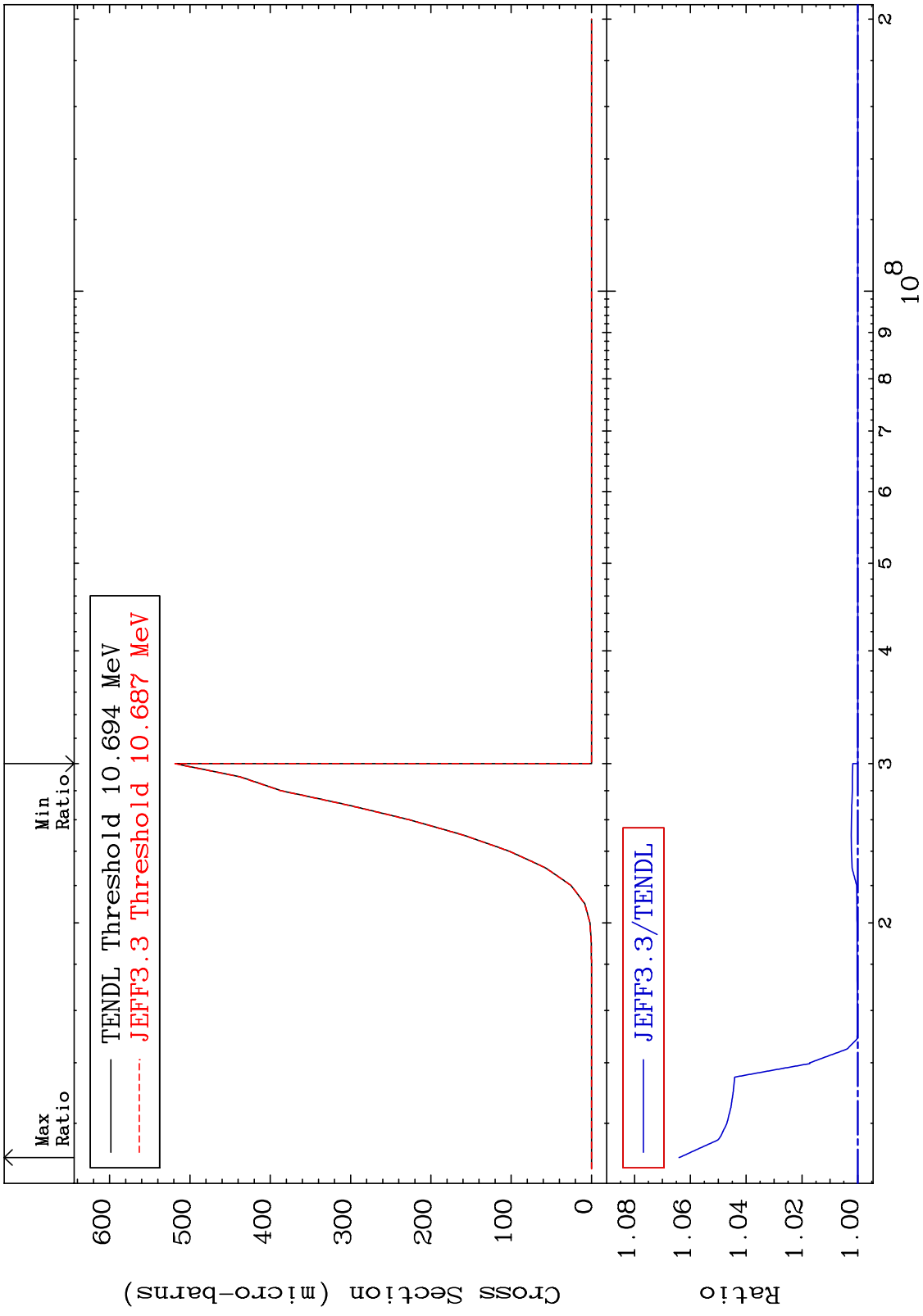
MAT 3834 (n,d):37-Rb-86m2 38-Sr-87
Radionuclide Production Cross Section 0.000 To 10.55 %



MAT 3834 (n,He-3):36-Kr-85g 38-Sr-87
 Radionuclide Production Cross Section 0.000 To 29.04 %



MAT 3834 (n, He-3) : 36-Kr-85m1 38-Sr-87
 Radionuclide Production Cross Section 0.000 To 6.405 %



38-Sr-87

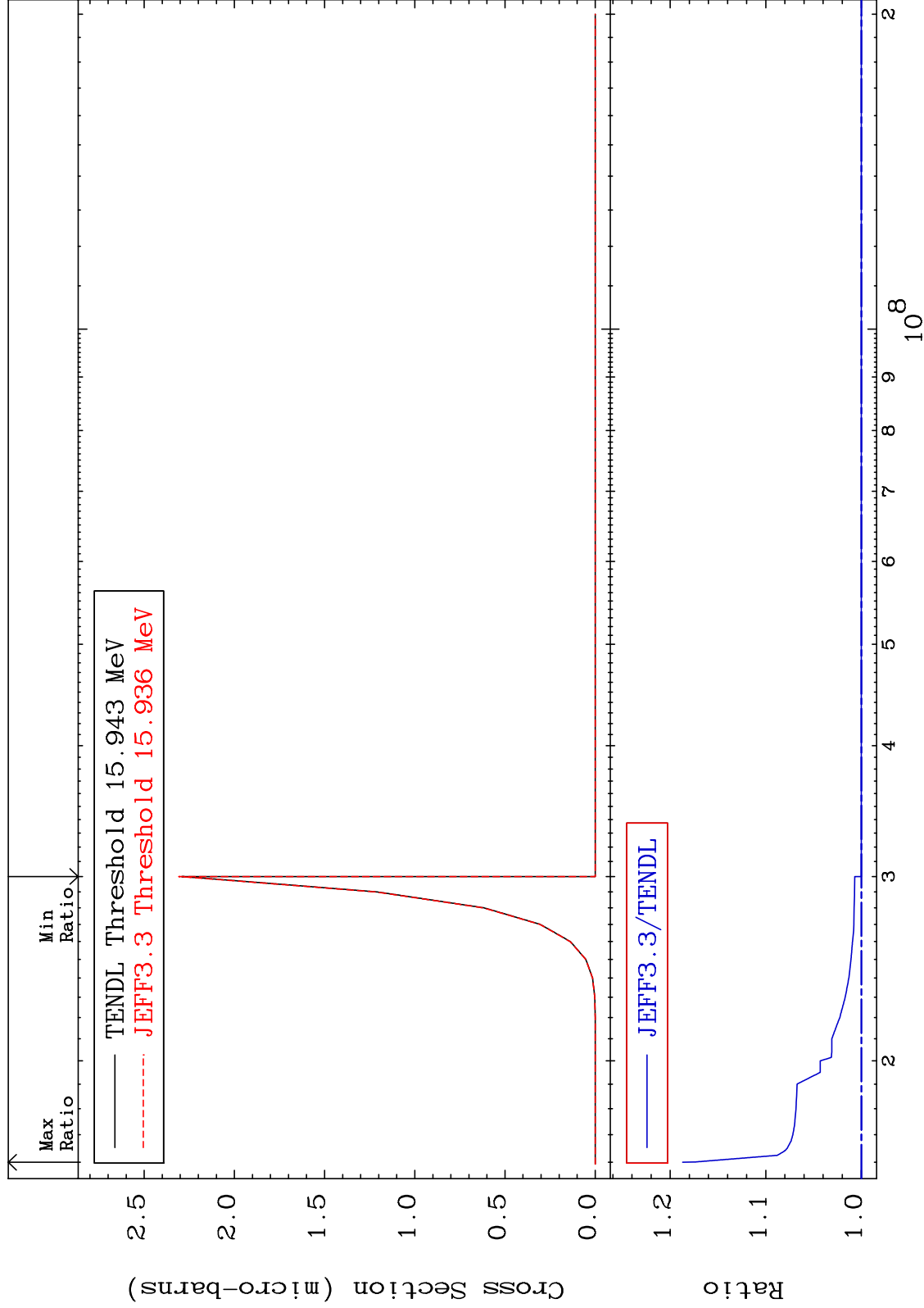
Incident Energy (eV)

MAT 3834

(n, p) d:36-Kr-85g

38-Sr-87

Radionuclide Production Cross Section 0.000 To 18.70 %



97

Incident Energy (eV)

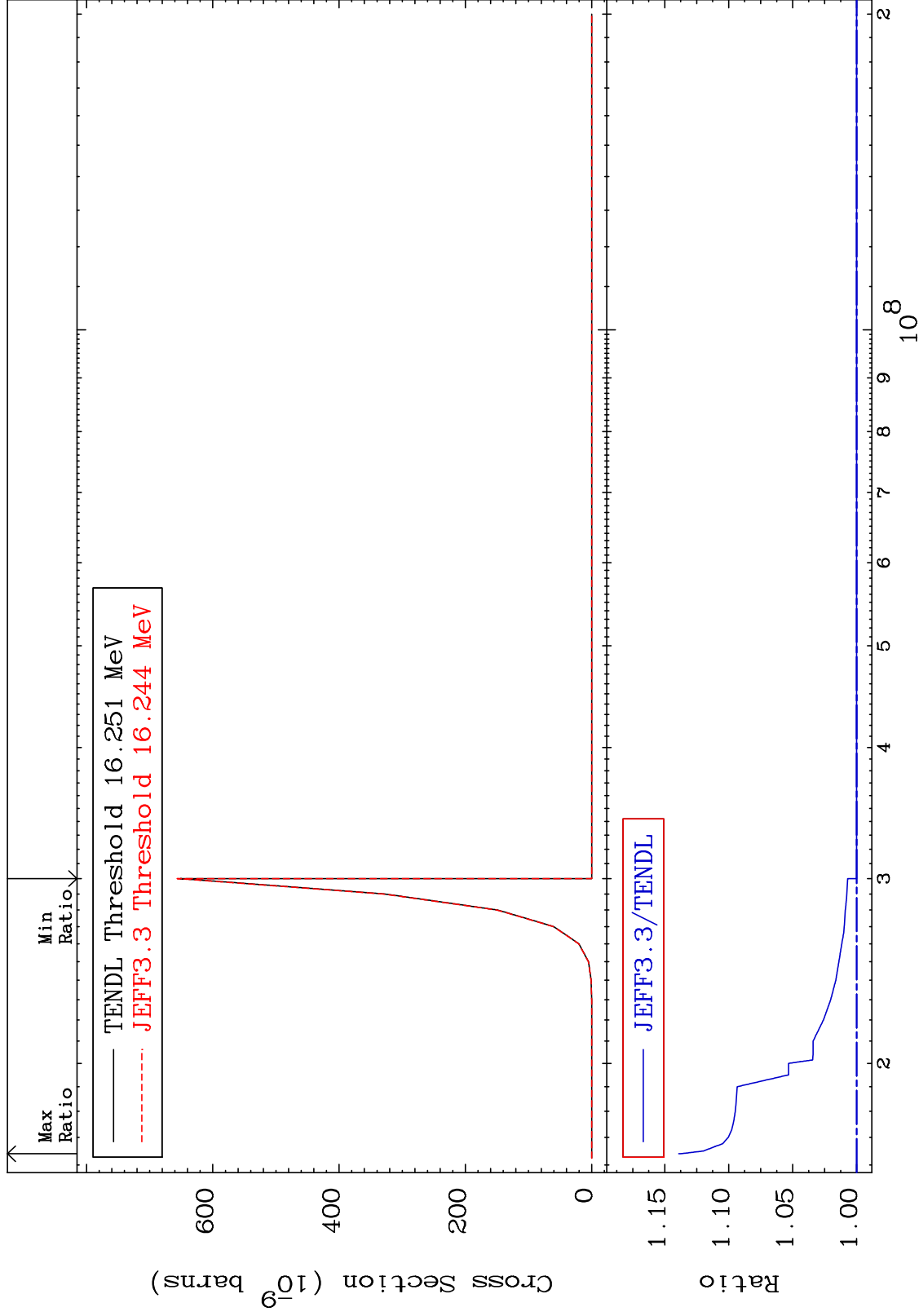
38-Sr-87

MAT 3834

(n, p) d:36-Kr-85m1

38-Sr-87

Radionuclide Production Cross Section 0.000 To 13.90 %

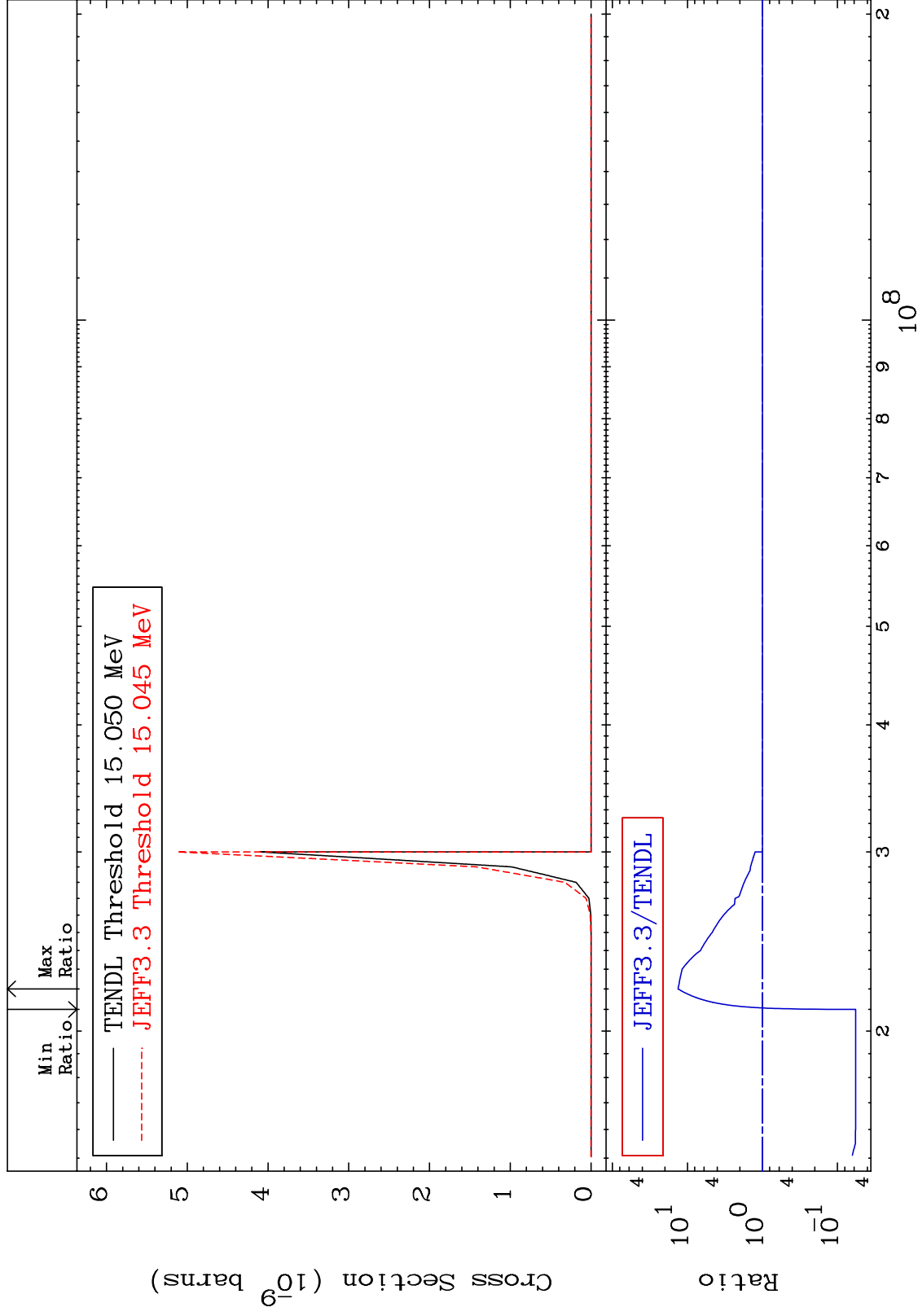


MAT 3834

(n,d) α :35-Br-82g

38-Sr-87

Radionuclide Production Cross Section -94.28 To 1234. %

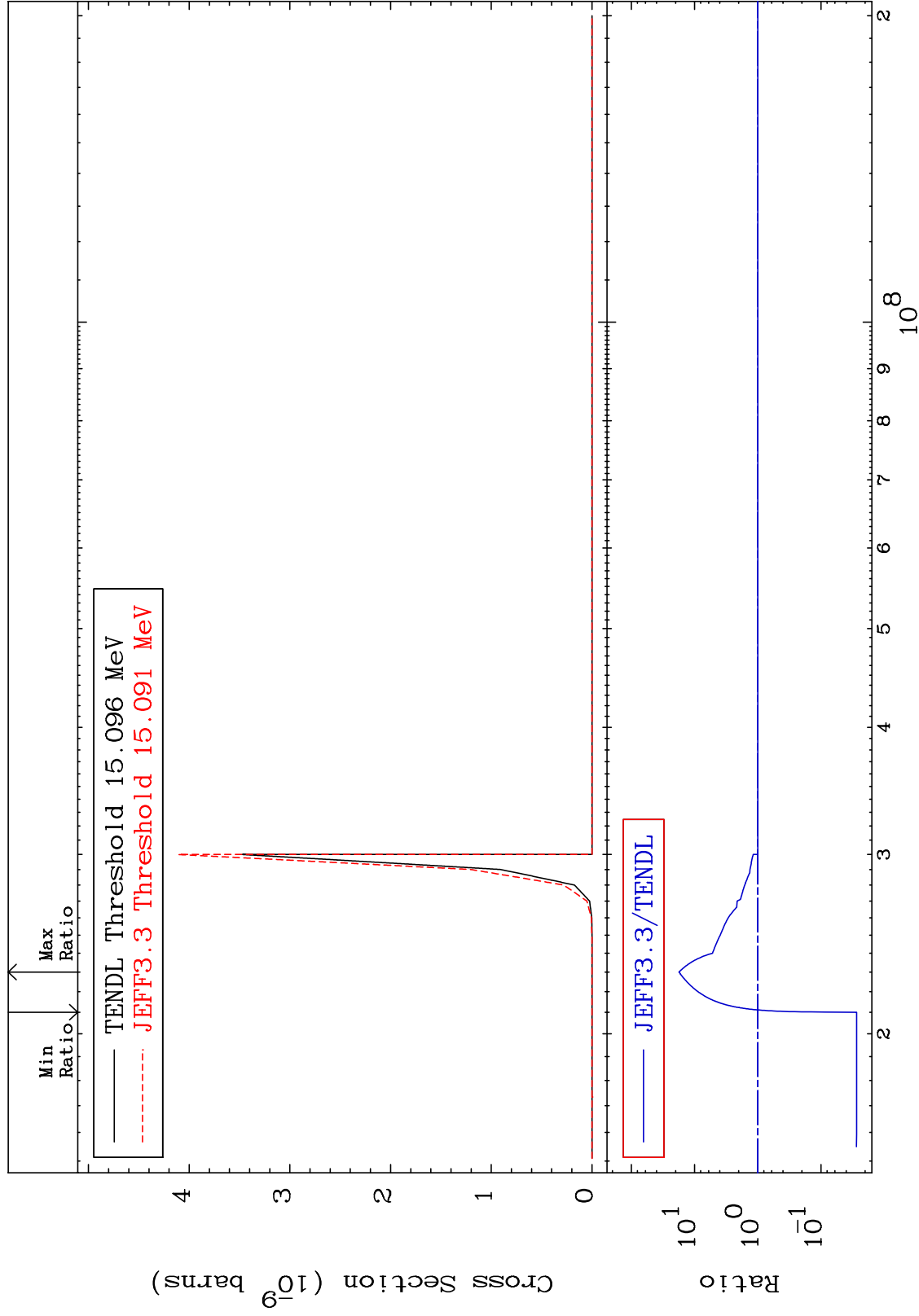


MAT 3834

(n, d) α :35-Br-82m1

38-Sr-87

Radionuclide Production Cross Section -97.28 To 1665. %



100

Incident Energy (eV)

38-Sr-87