

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

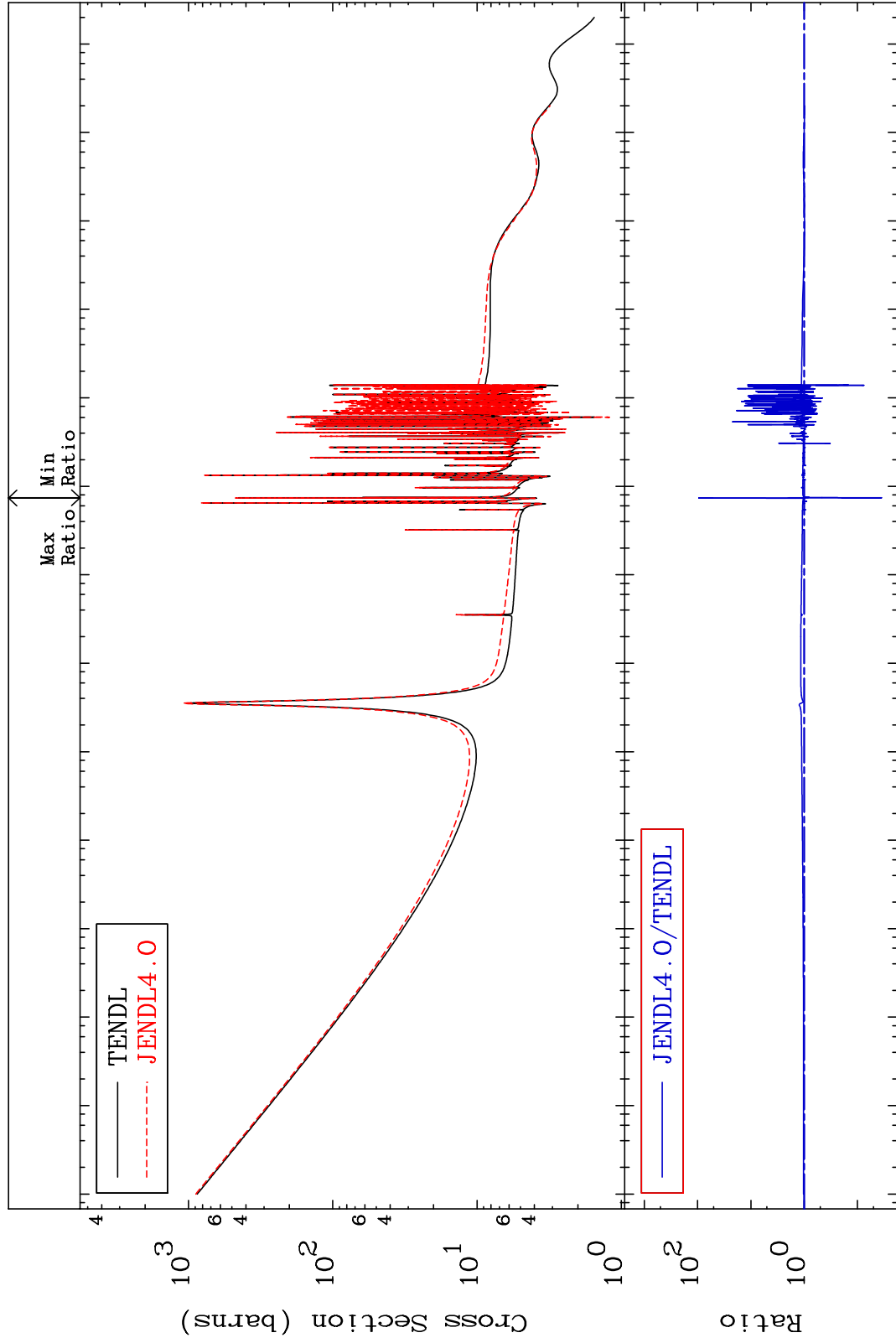
MAT 3834

Total

38-Sr-87

-96.49 To 9436. %

Cross Section



38-Sr-87

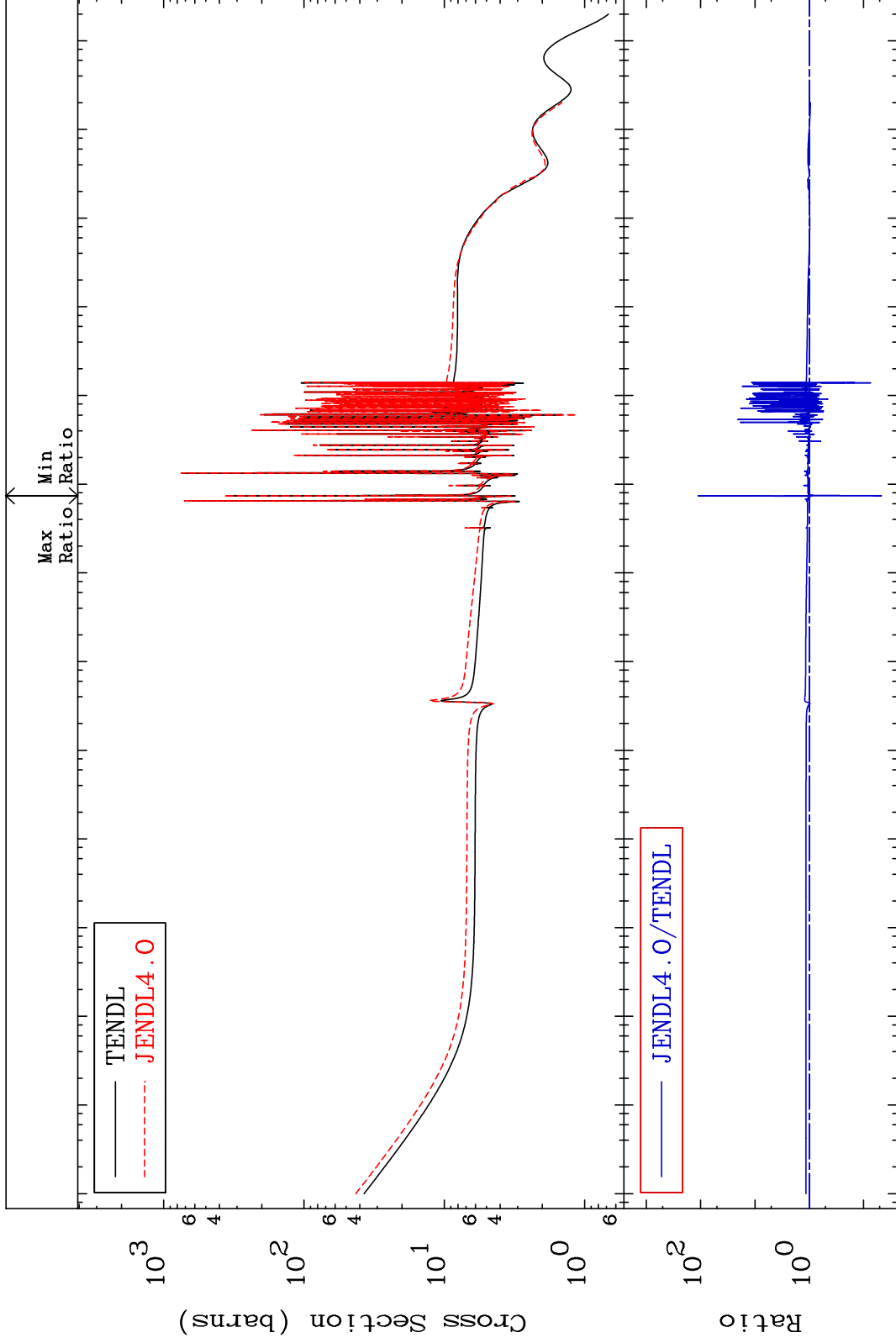
MAT 3834

Elastic

38-Sr-87

Cross Section

-95.35 To 9999. %

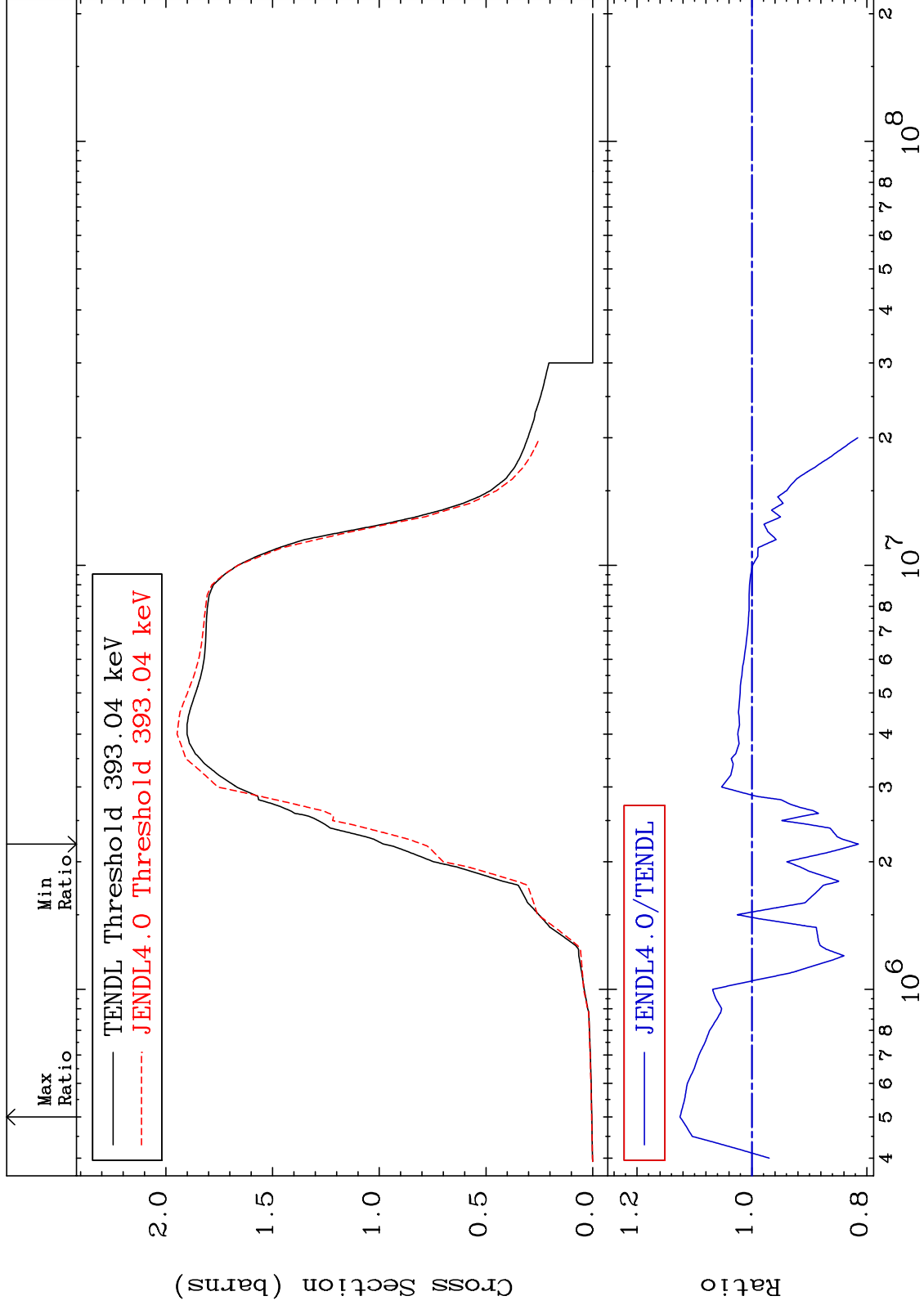


MAT 3834

Inelastic
Cross Section

38-Sr-87

-18.52 To 12.52 %



3

Incident Energy (eV)

38-Sr-87

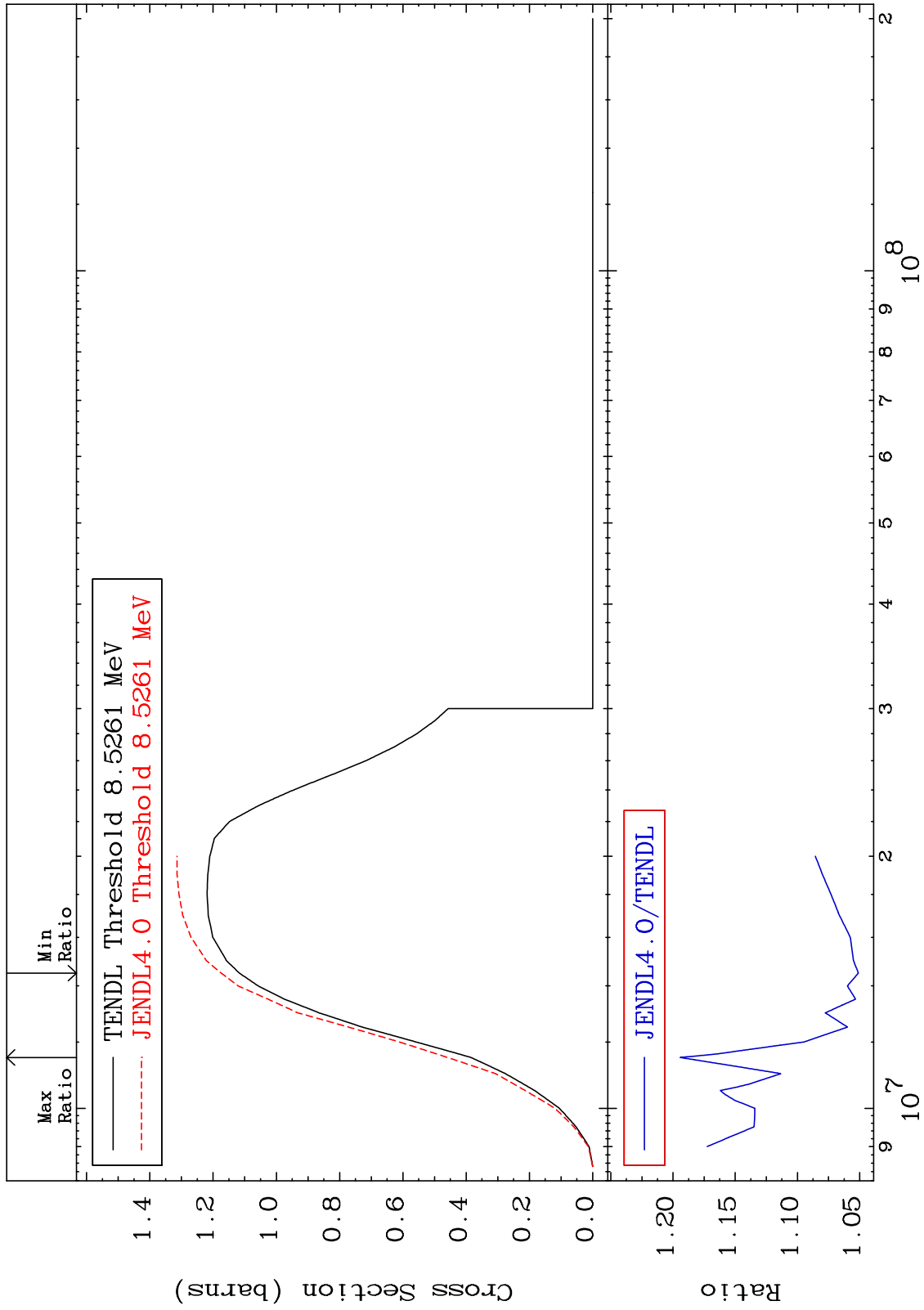
MAT 3834

(n,2n)

38-Sr-87

Cross Section

5.098 To 19.44 %



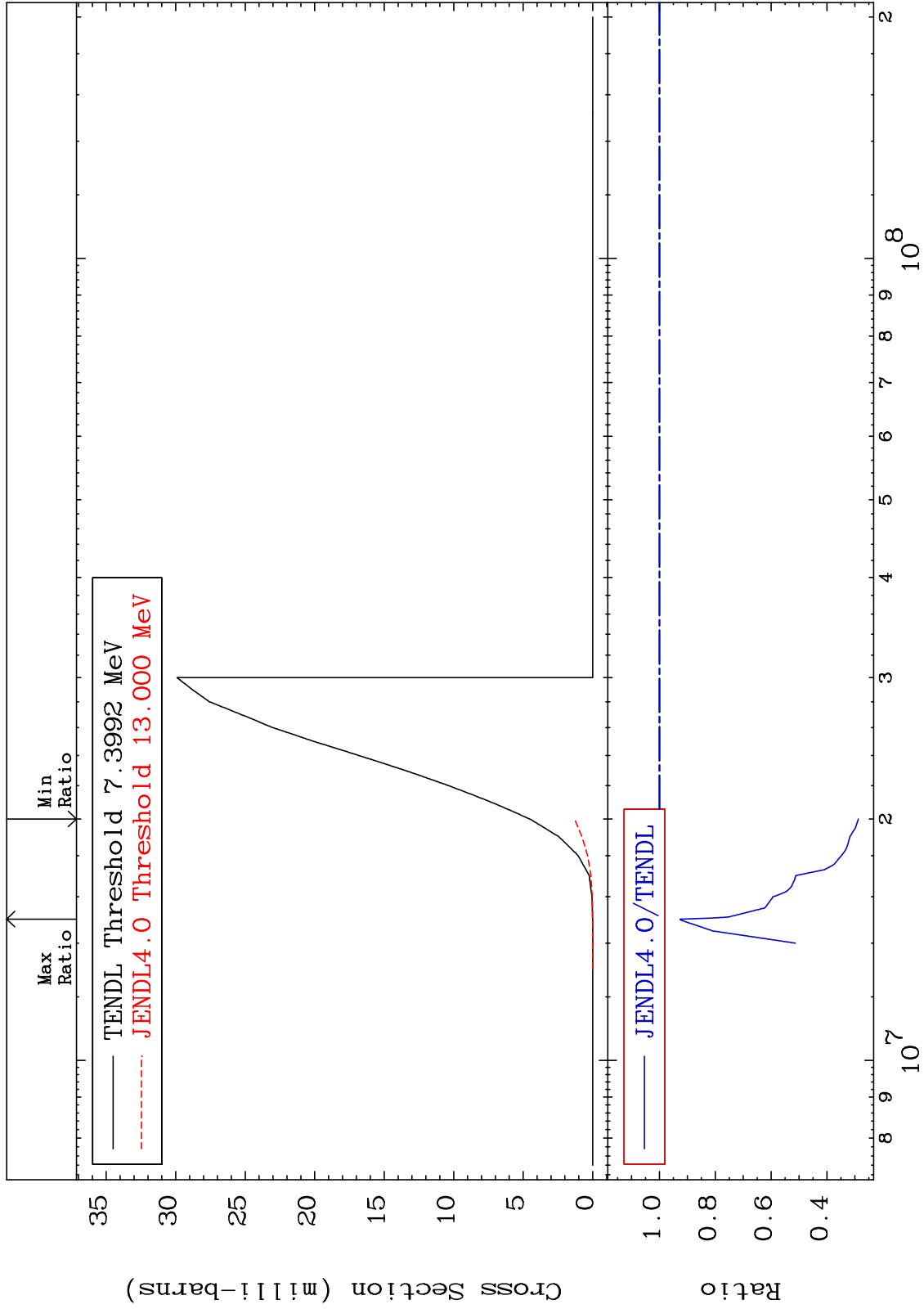
MAT 3834

(n,n') α

38-Sr-87

Cross Section

-71.24 To -7.352%



5

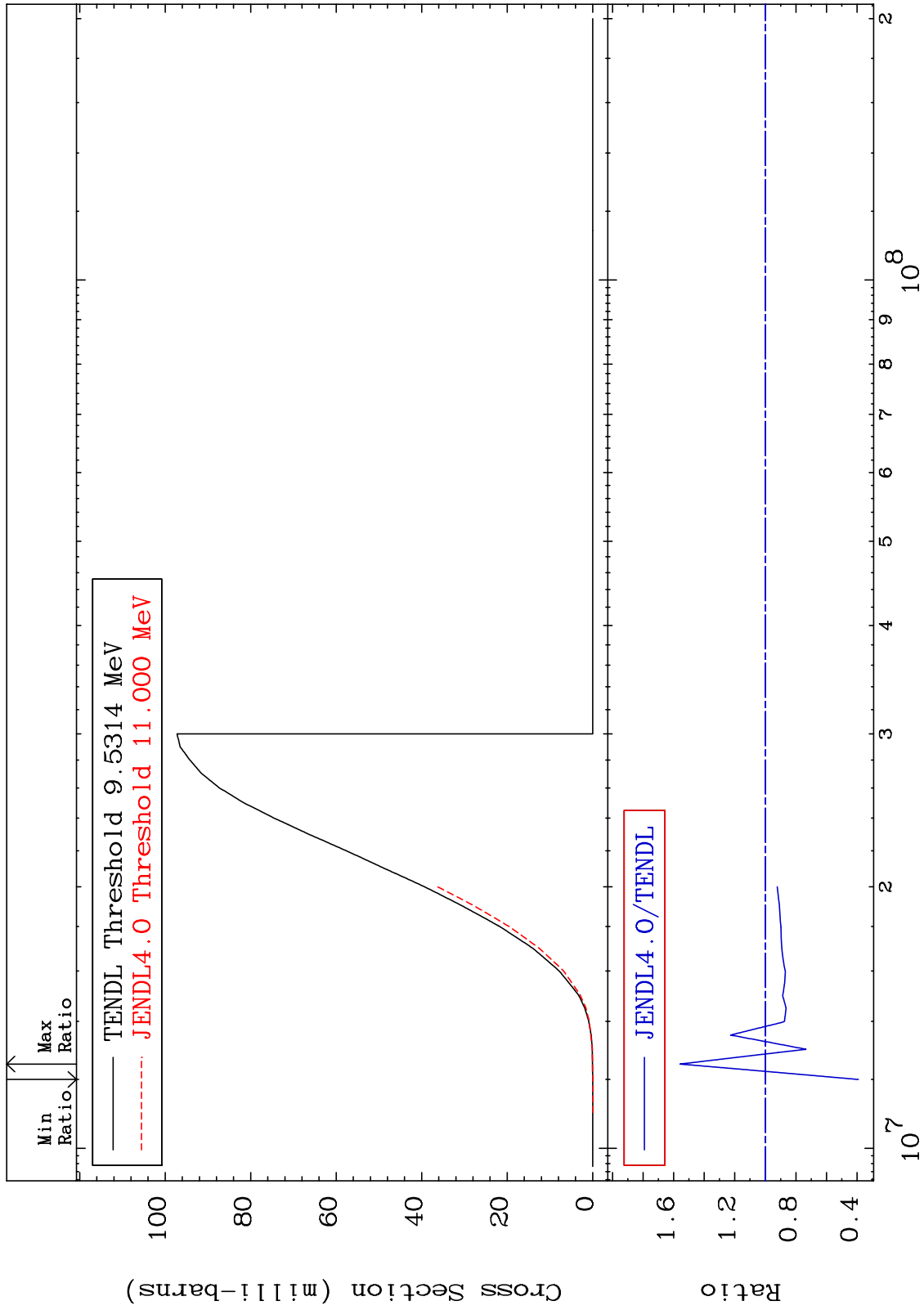
Incident Energy (eV)

38-Sr-87

MAT 3834

(n,n') p
Cross Section

38-Sr-87
-60.85 To 55.81 %



Incident Energy (eV)

38-Sr-87

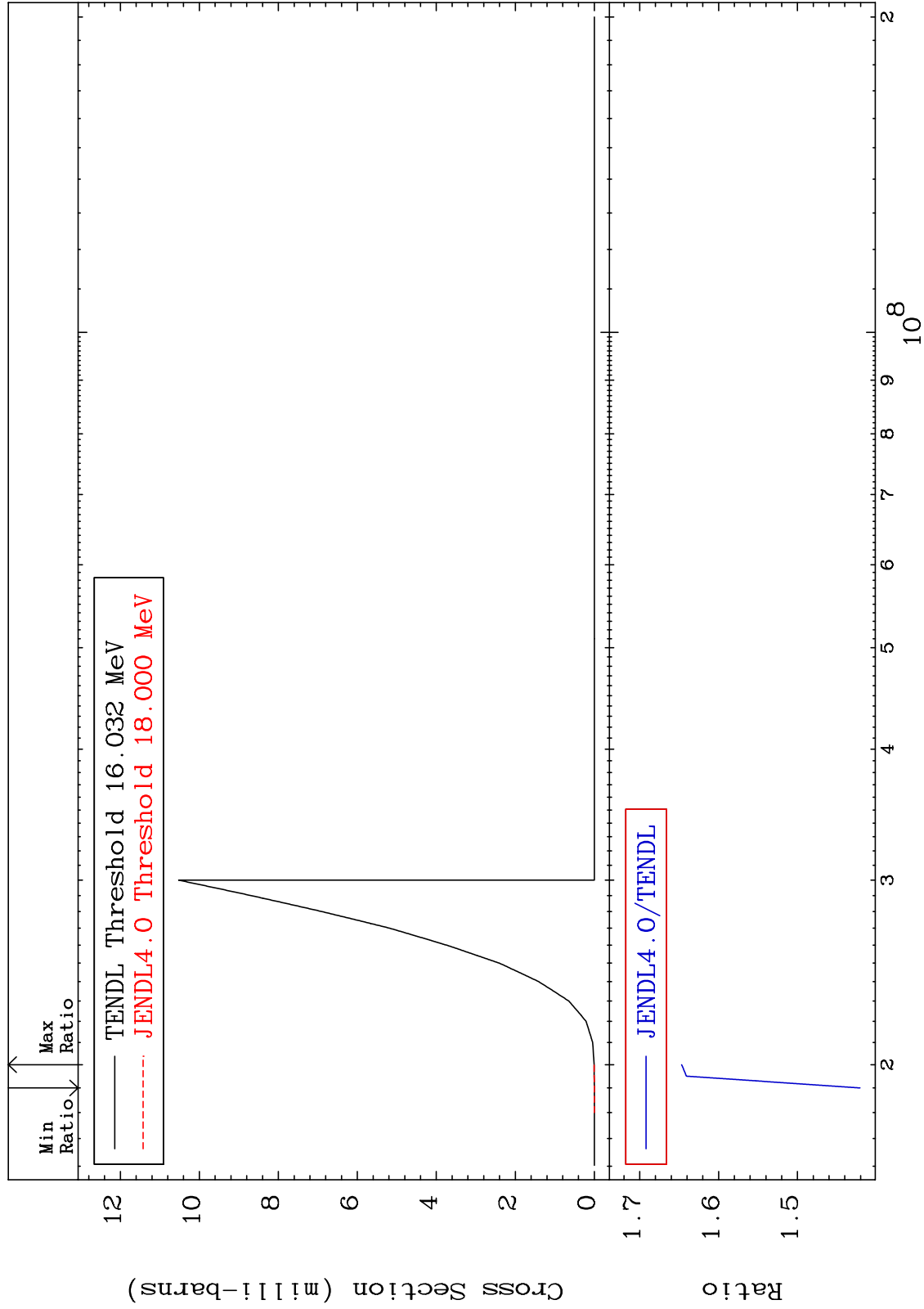
MAT 3834

(n,n') d

38-Sr-87

Cross Section

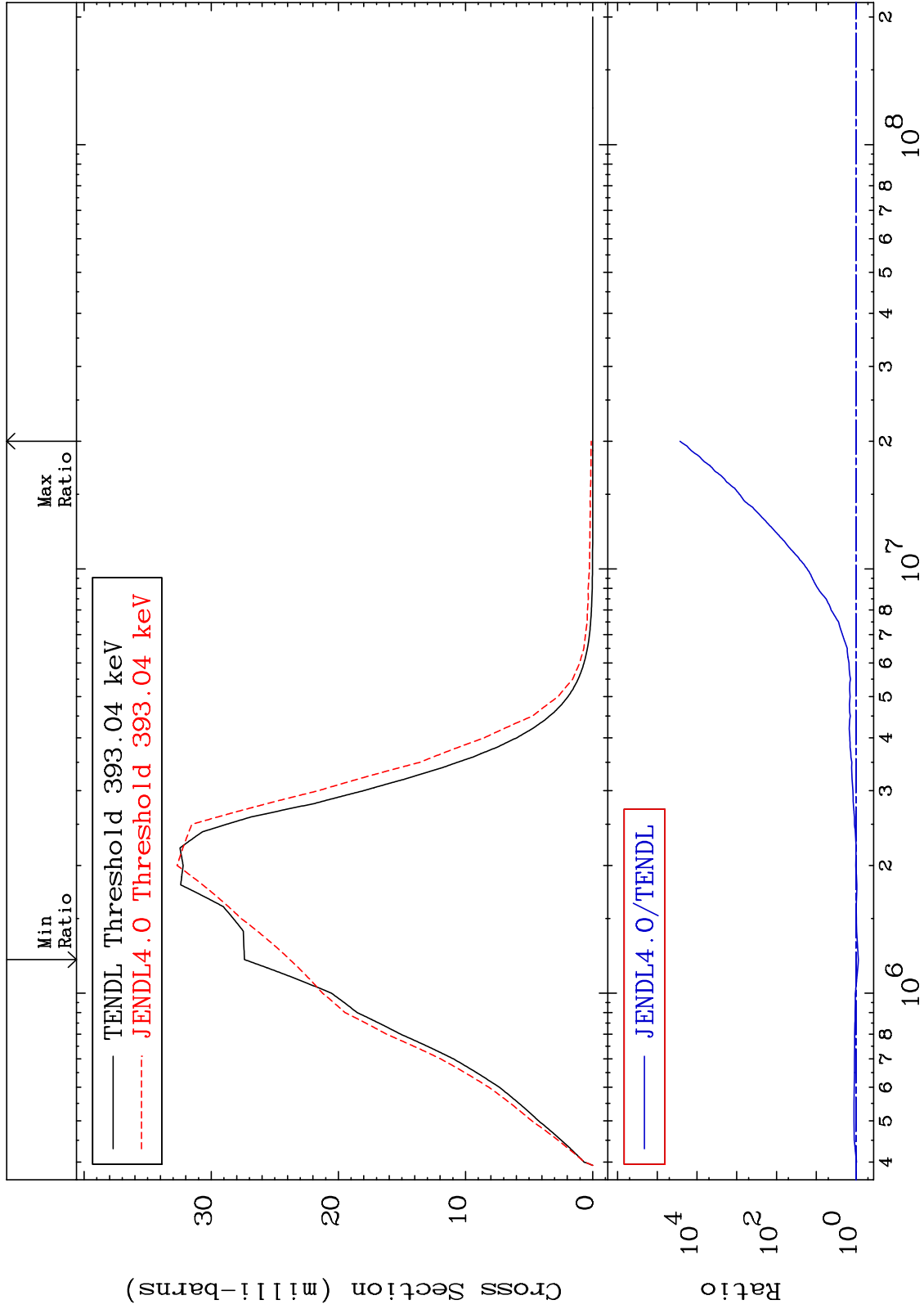
42.07 To 64.69 %



MAT 3834

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

38-Sr-87
-13.09 To 9999. %



8

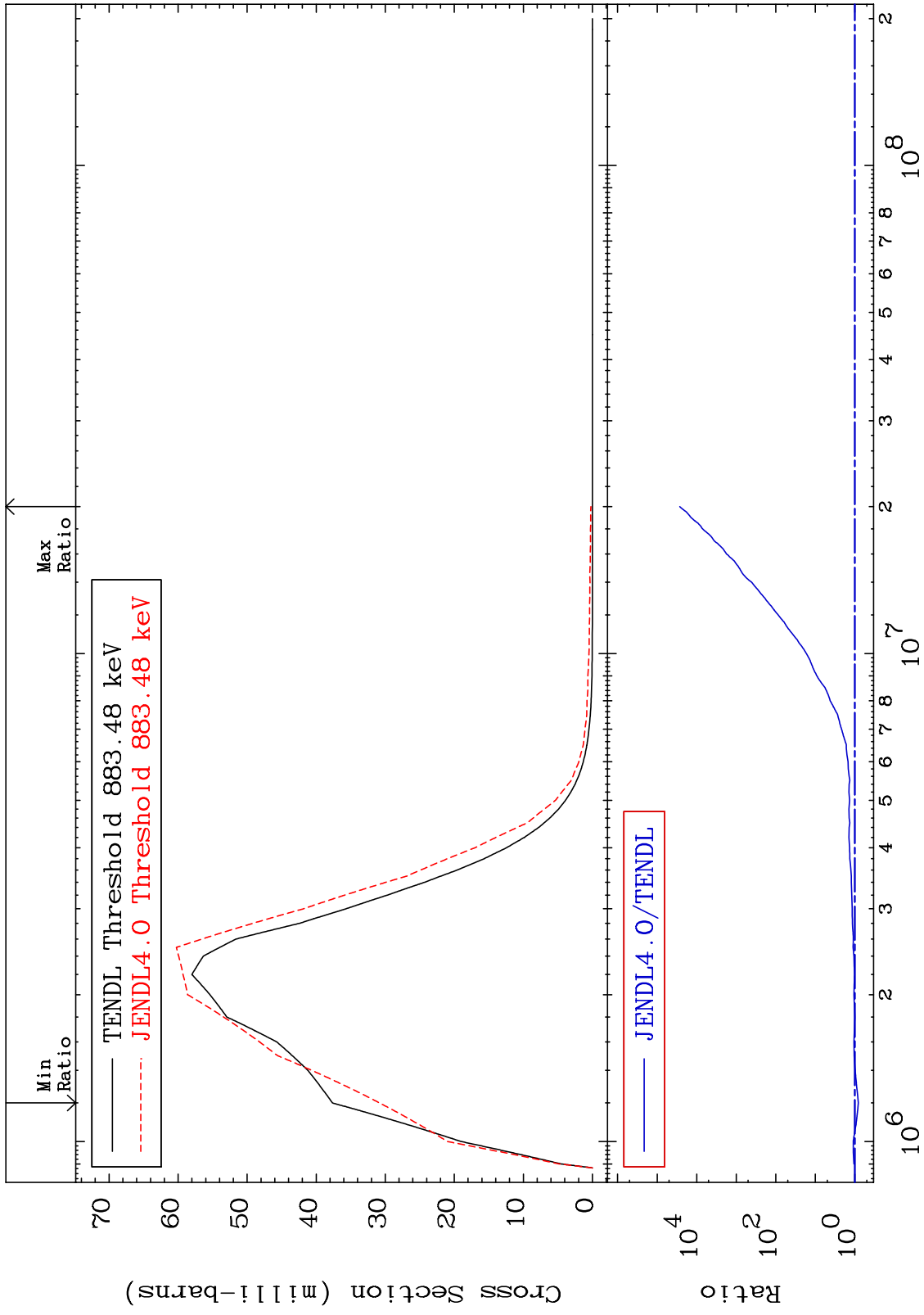
Incident Energy (eV)

38-Sr-87

MAT 3834

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

38-Sr-87
-18.14 To 9999. %



9

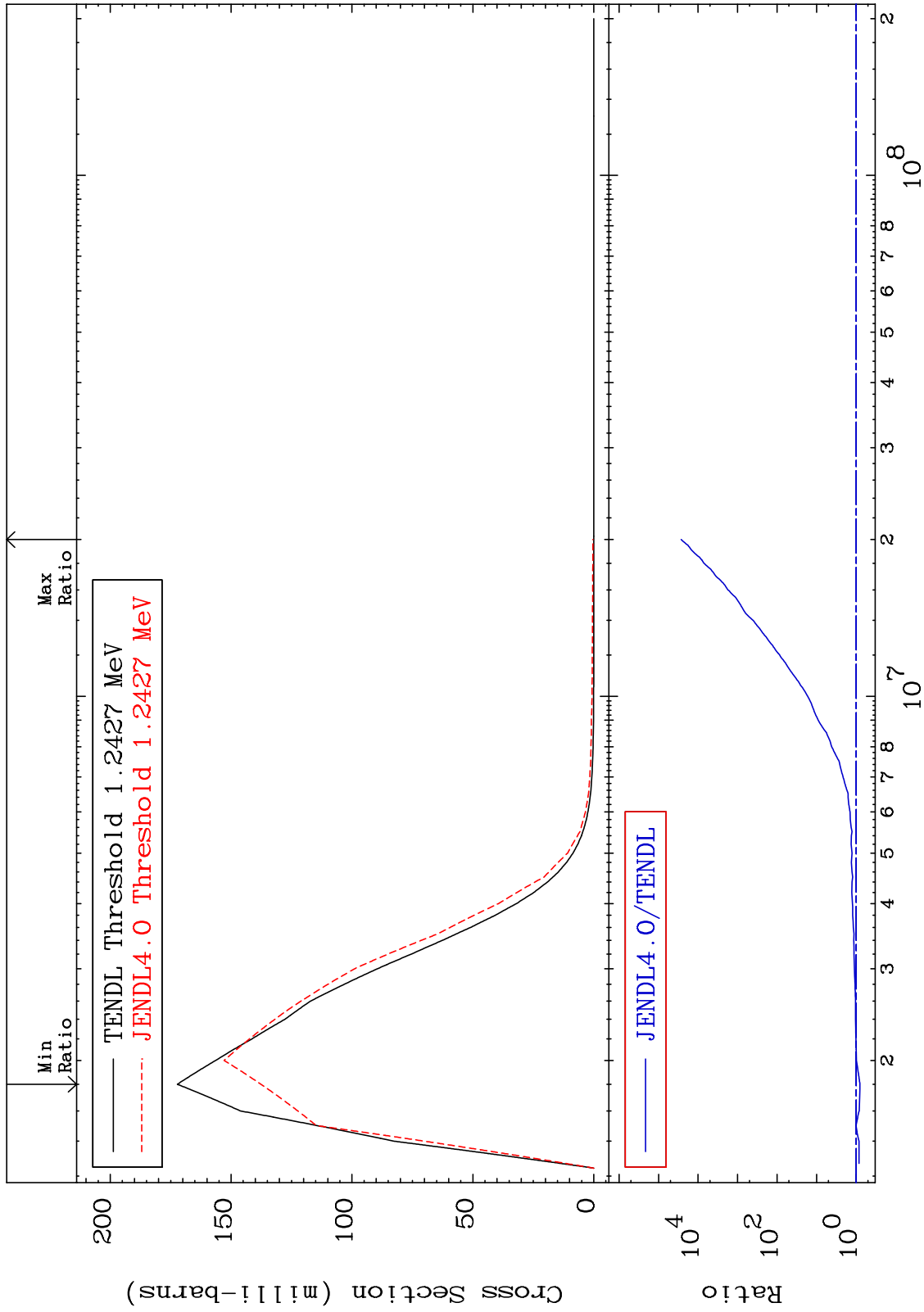
Incident Energy (eV)

38-Sr-87

MAT 3834

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

38-Sr-87
-20.07 To 9999. %



10

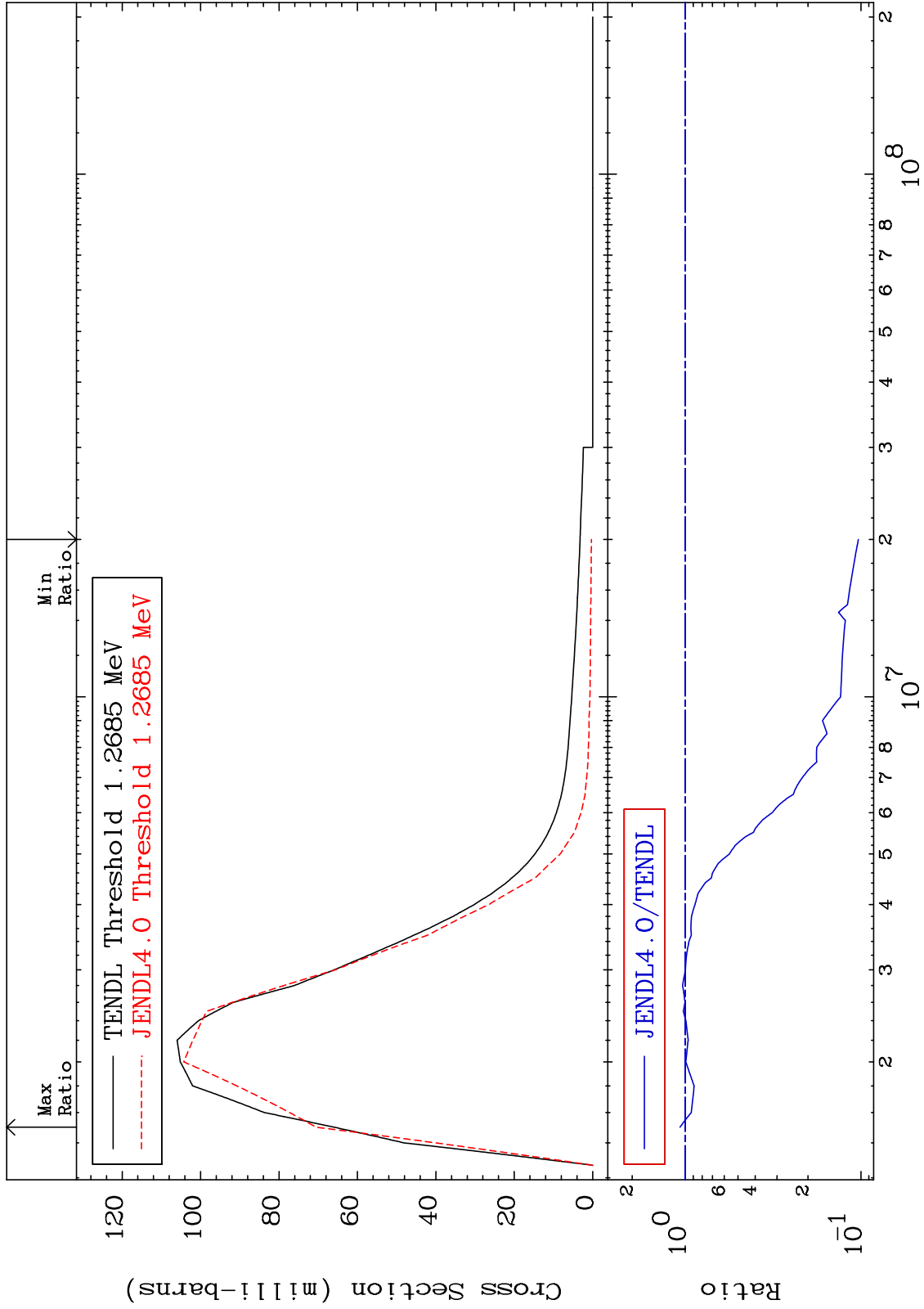
Incident Energy (eV)

38-Sr-87

MAT 3834

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

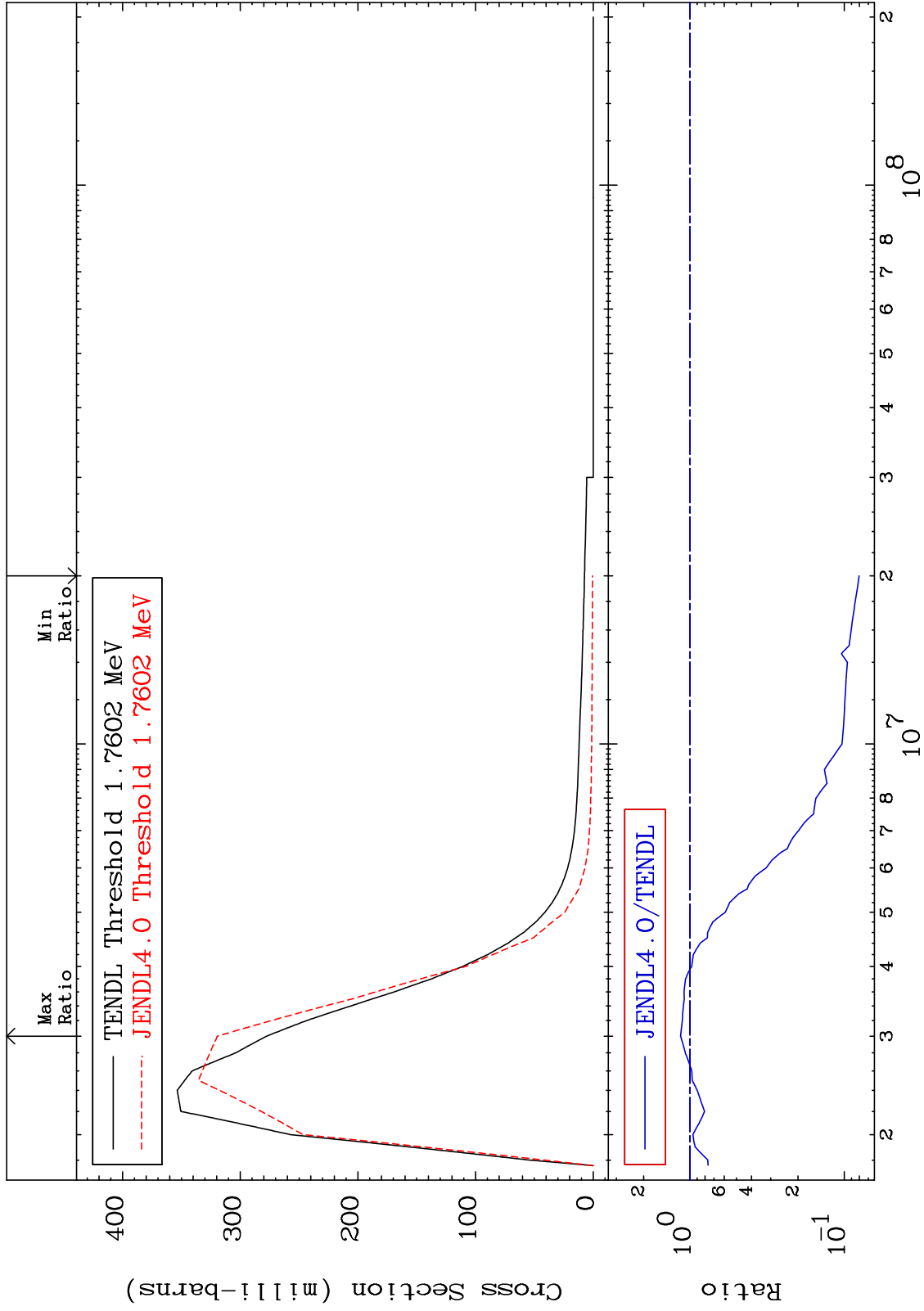
38-Sr-87
-89.67 To 6.980 %



MAT 3834

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

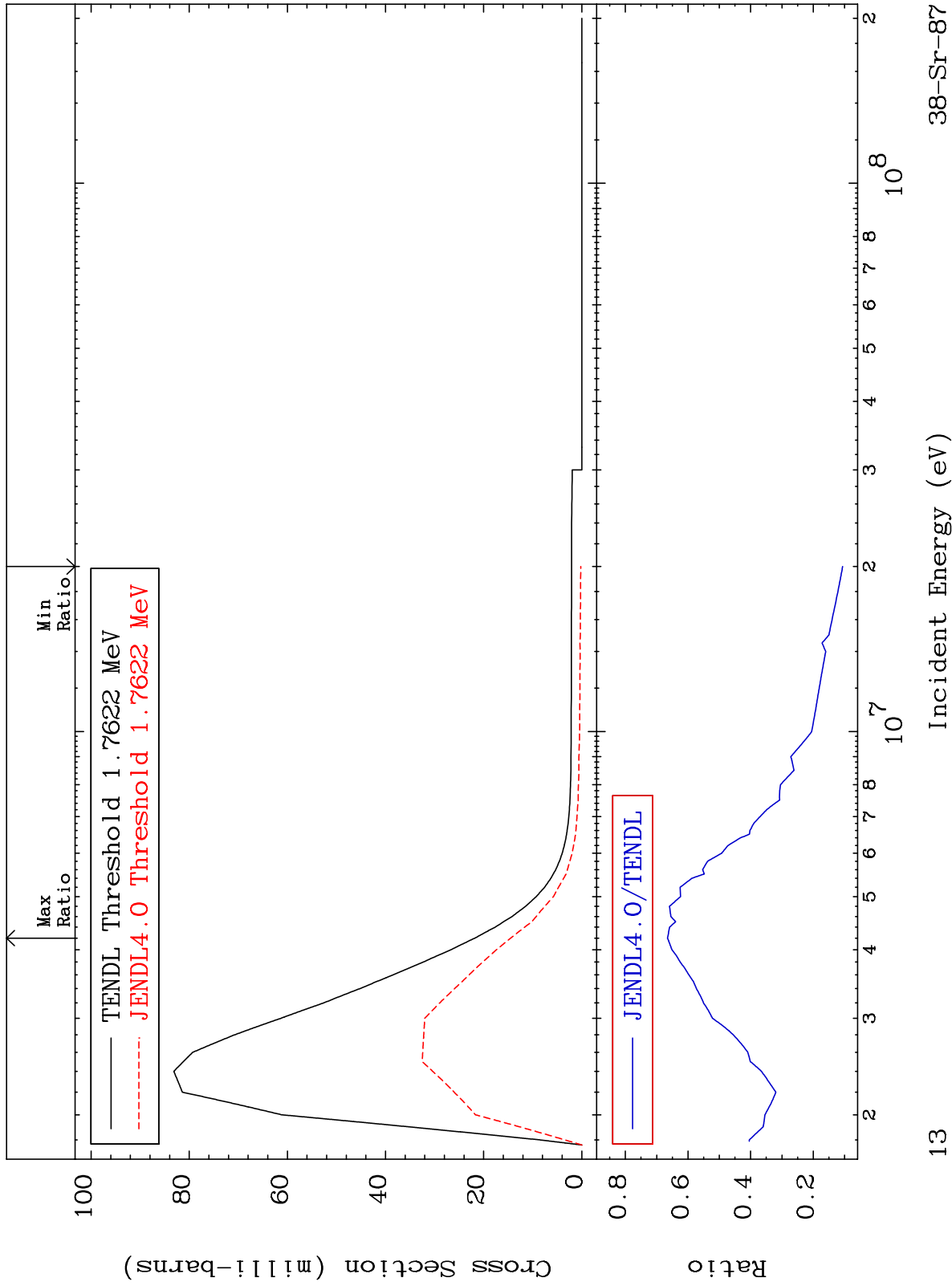
38-Sr-87
-91.98 To 15.05 %



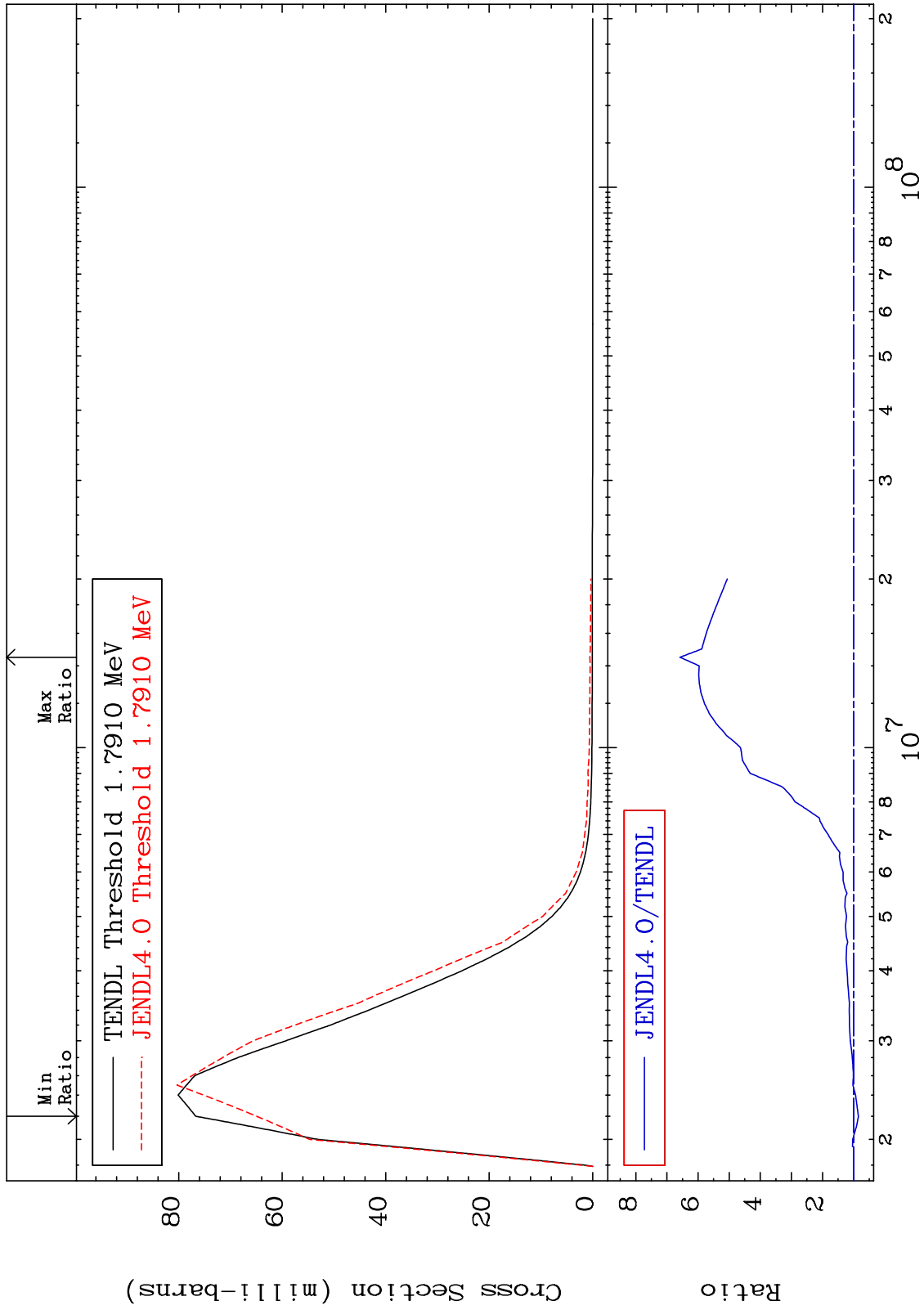
MAT 3834

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

38-Sr-87
-89.39 To -33.47%



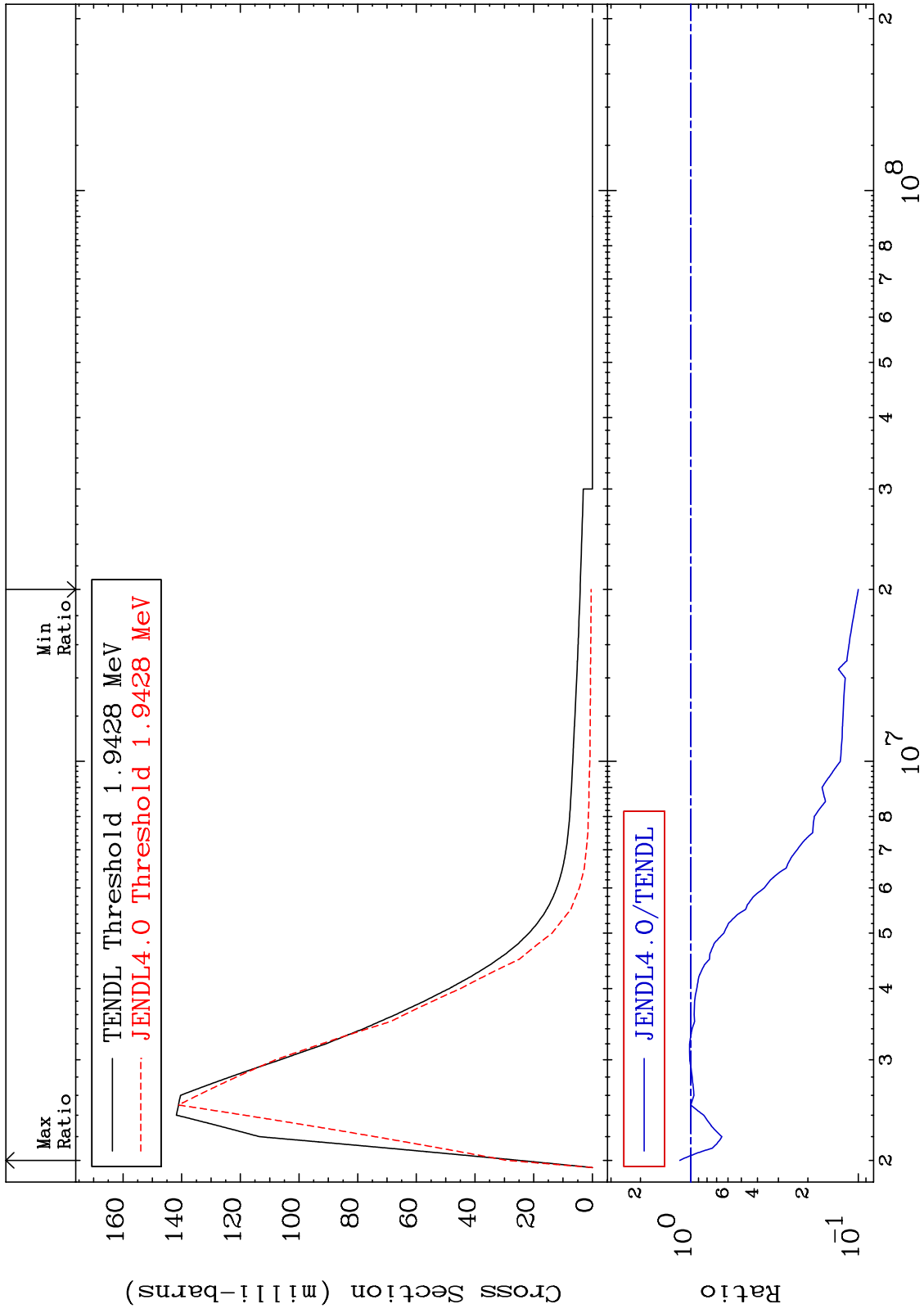
MAT 3834 MT= 57 (n,n') Level Cross Section 38-Sr-87
 -15.35 To 557.9 %



MAT 3834

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

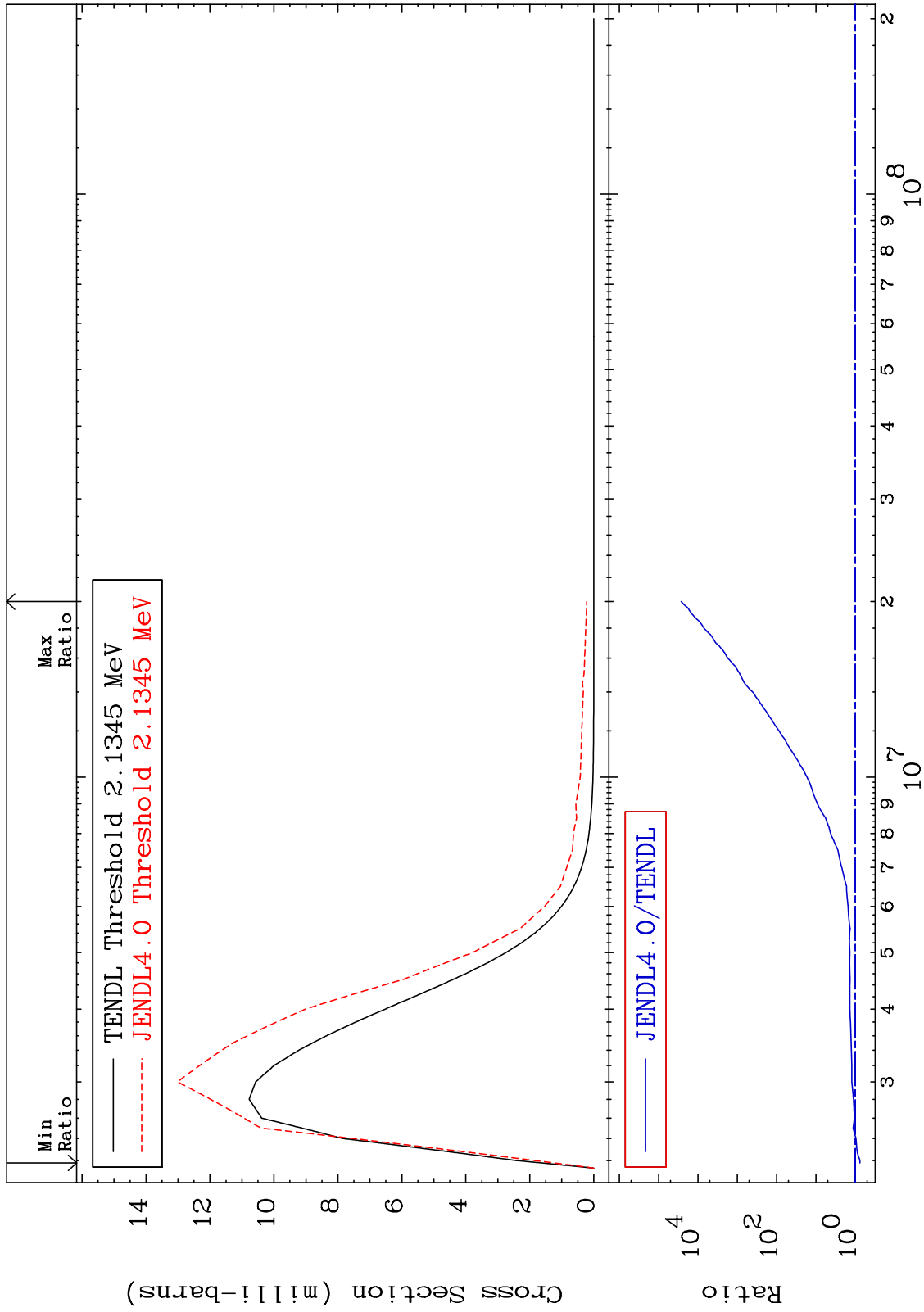
38-Sr-87
-90.02 To 16.33 %



MAT 3834

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

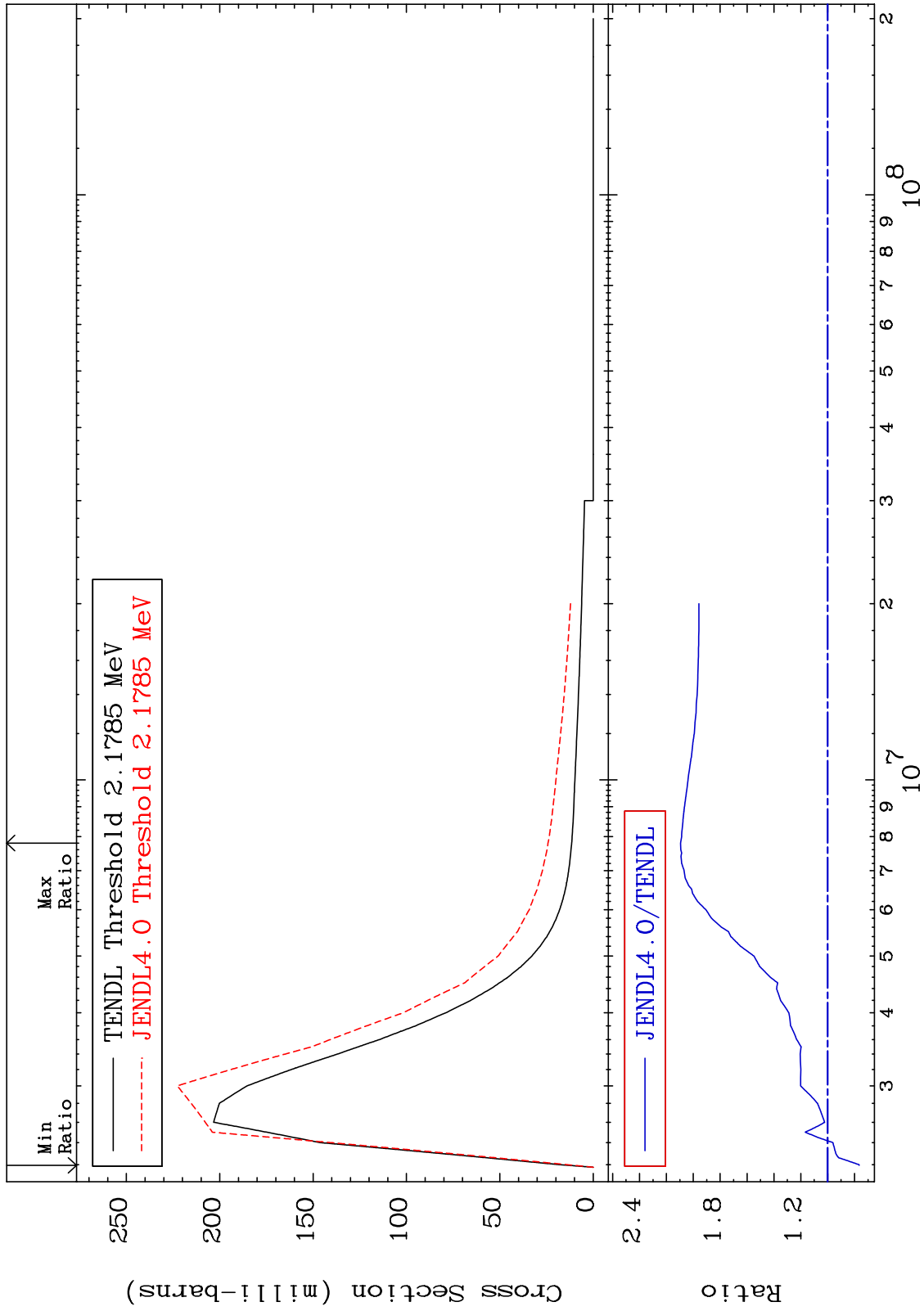
38-Sr-87
-23.63 To 9999. %



MAT 3834

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

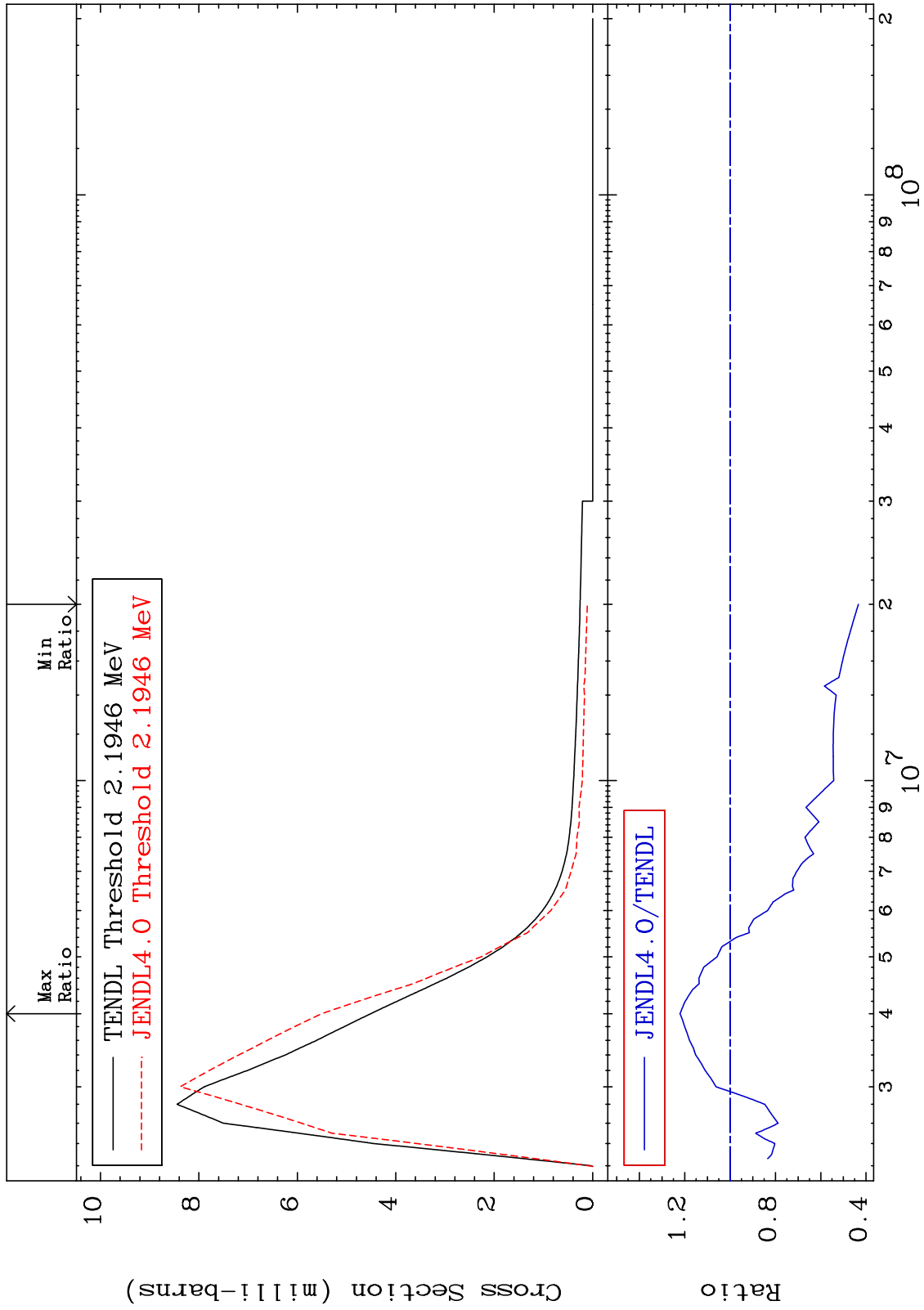
38-Sr-87
-23.45 To 109.4 %



MAT 3834

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

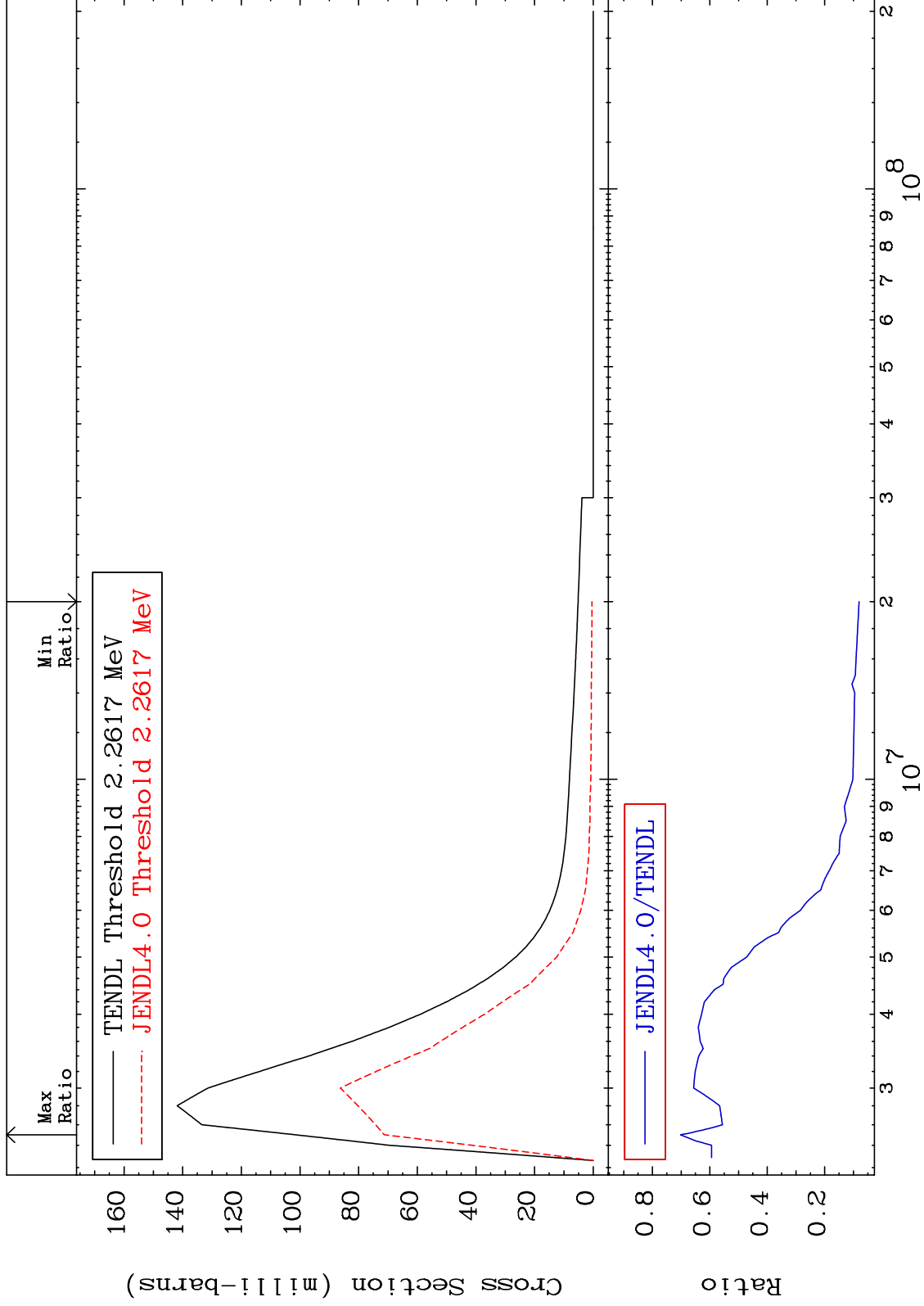
38-Sr-87
-56.62 To 22.09 %



MAT 3834

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

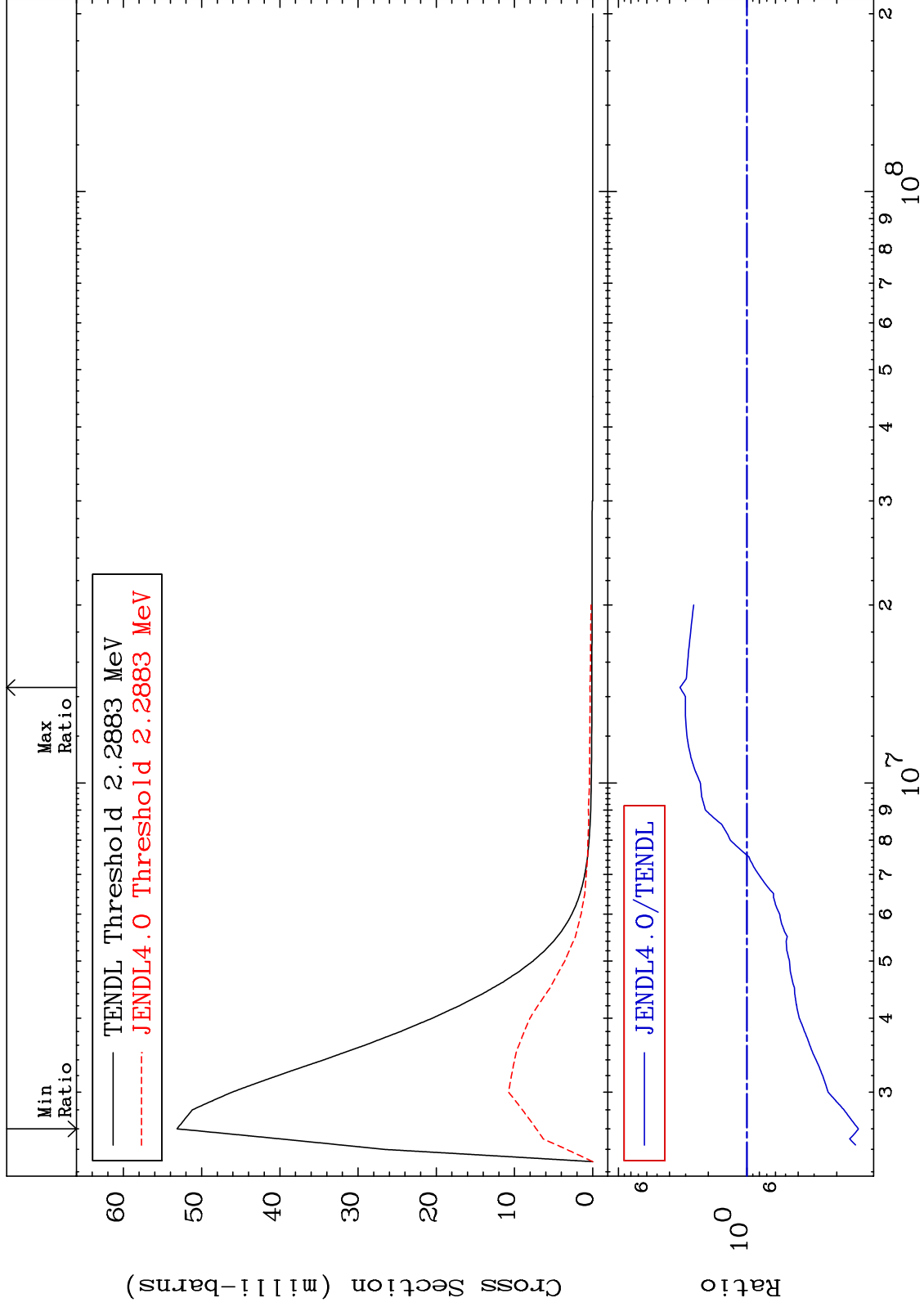
38-Sr-87
-92.01 To -29.82%



MAT 3834

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

38-Sr-87
-86.43 To 231.4 %

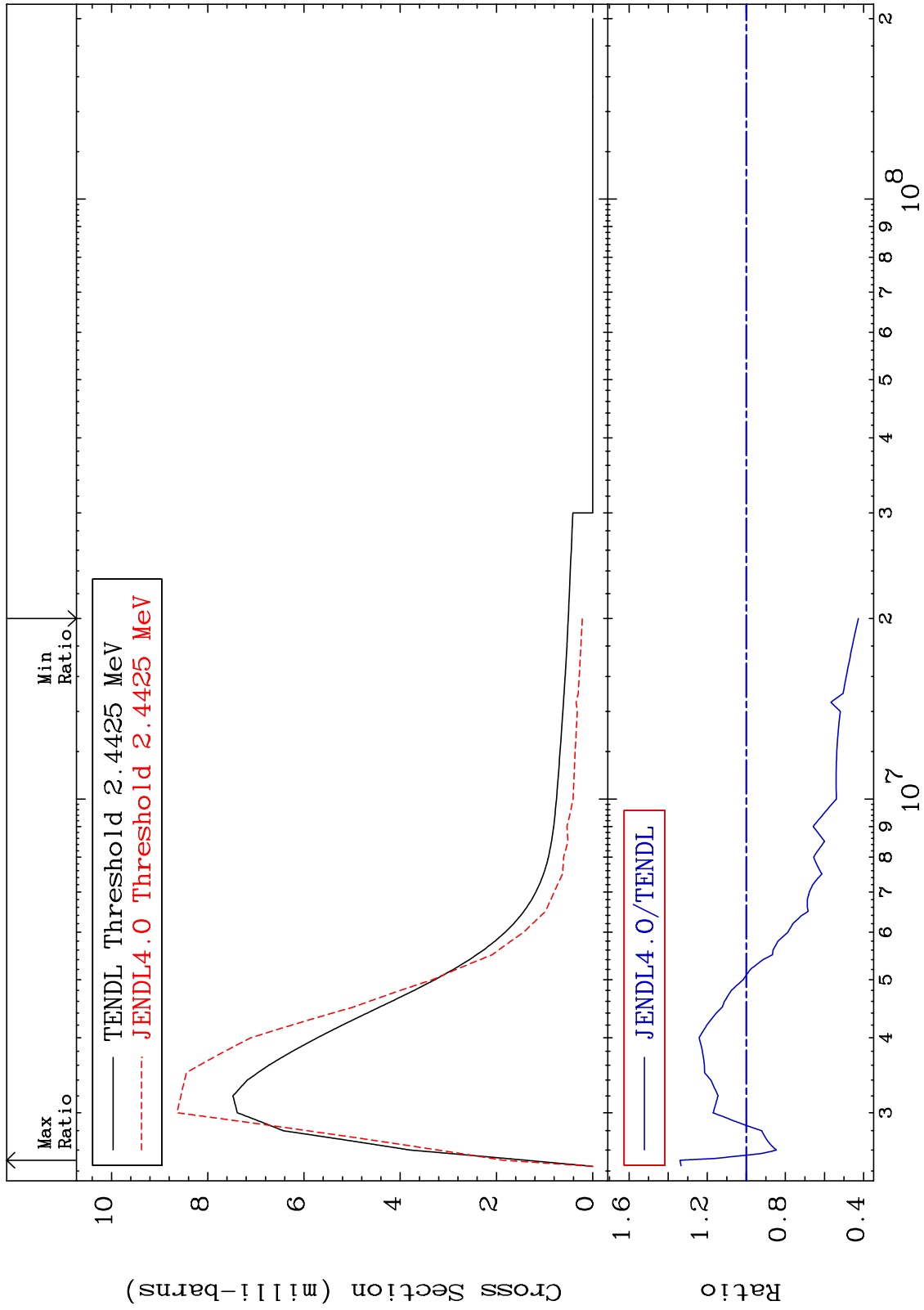


20

Incident Energy (eV)

38-Sr-87

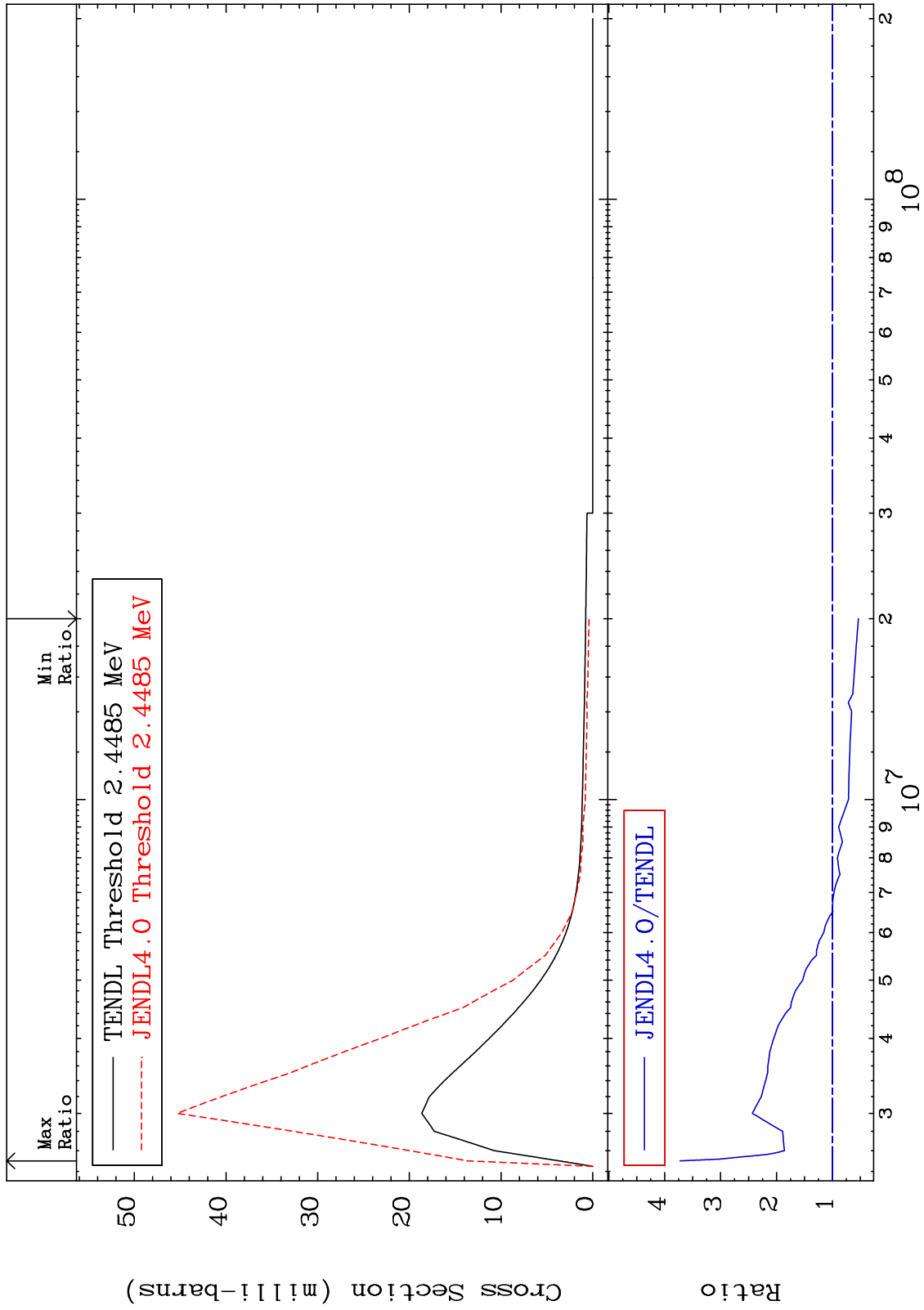
MAT 3834 MT= 64 (n,n') Level Cross Section 38-Sr-87
 -57.37 To 33.93 %



MAT 3834

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

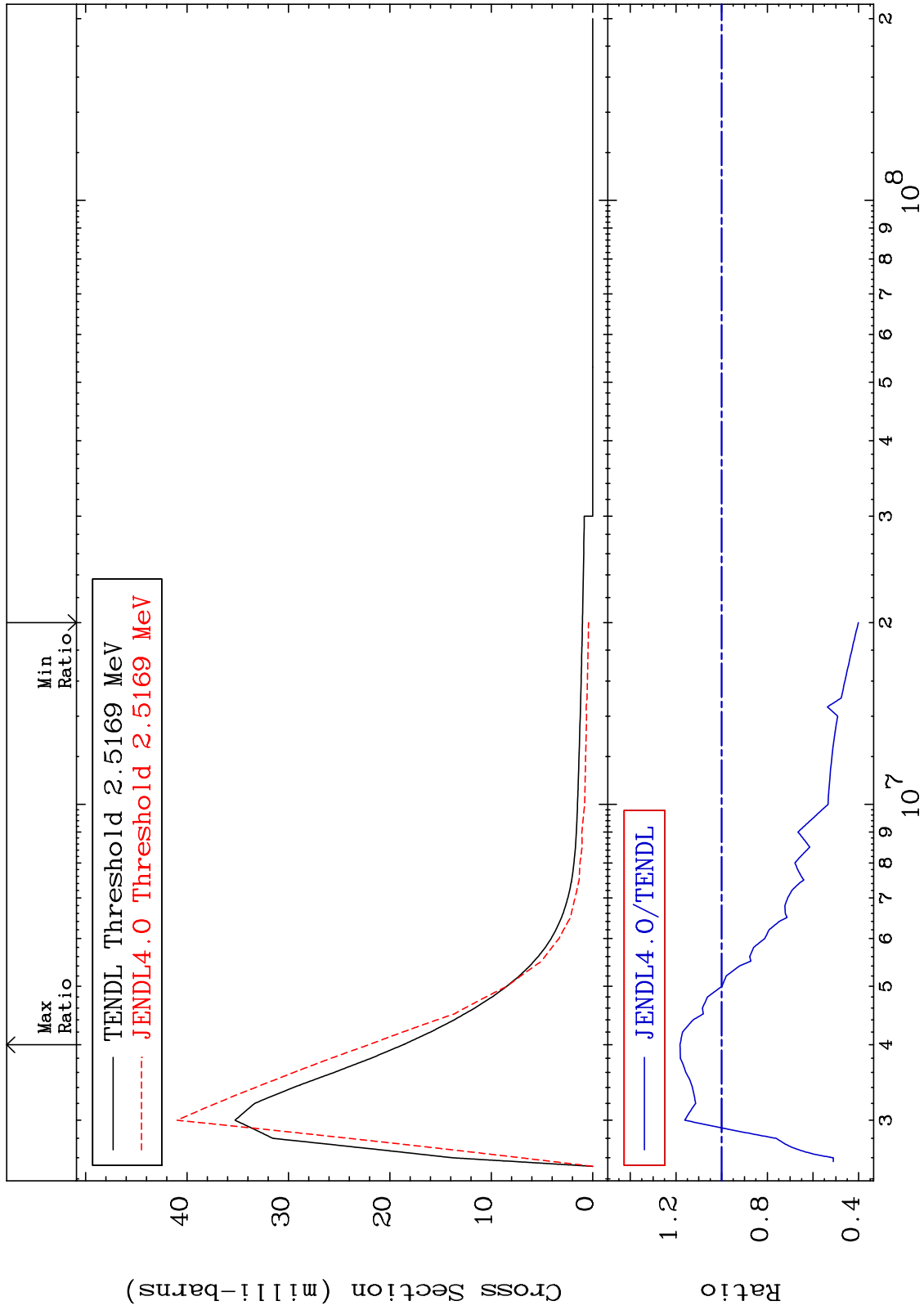
38-Sr-87
-46.47 To 272.6 %



MAT 3834

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

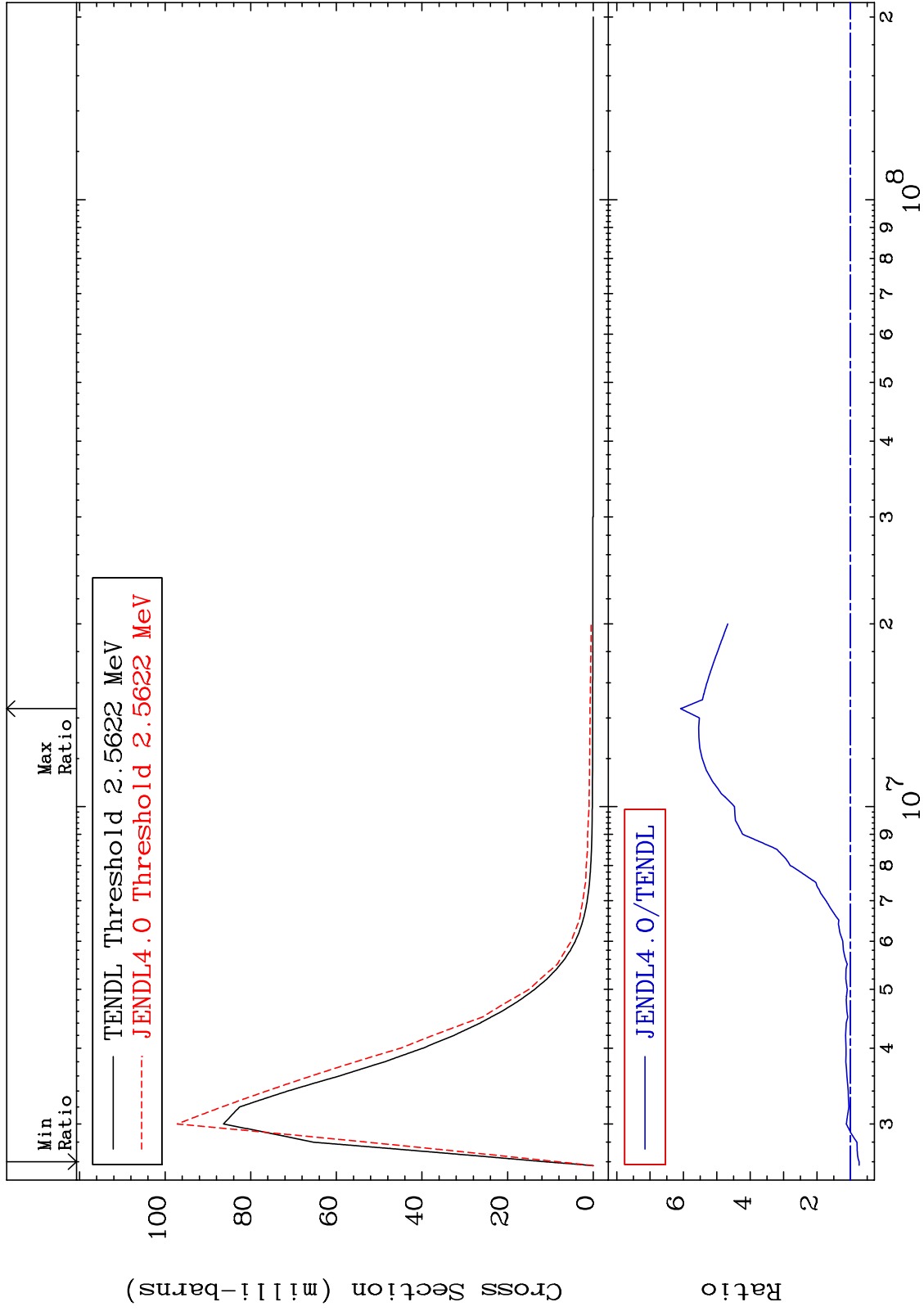
38-Sr-87
-59.88 To 18.22 %



MAT 3834

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

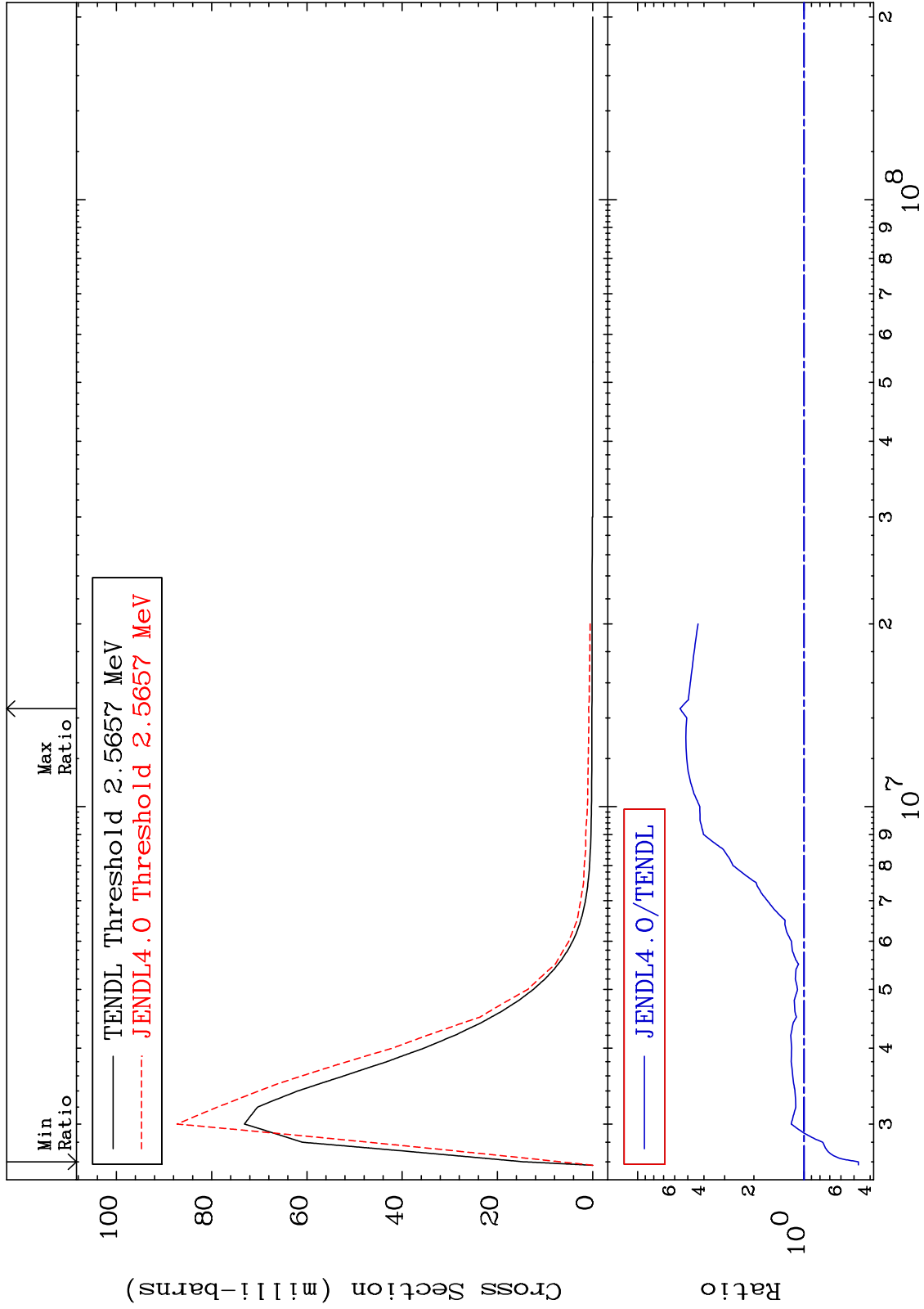
38-Sr-87
-25.97 To 508.6 %



MAT 3834

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

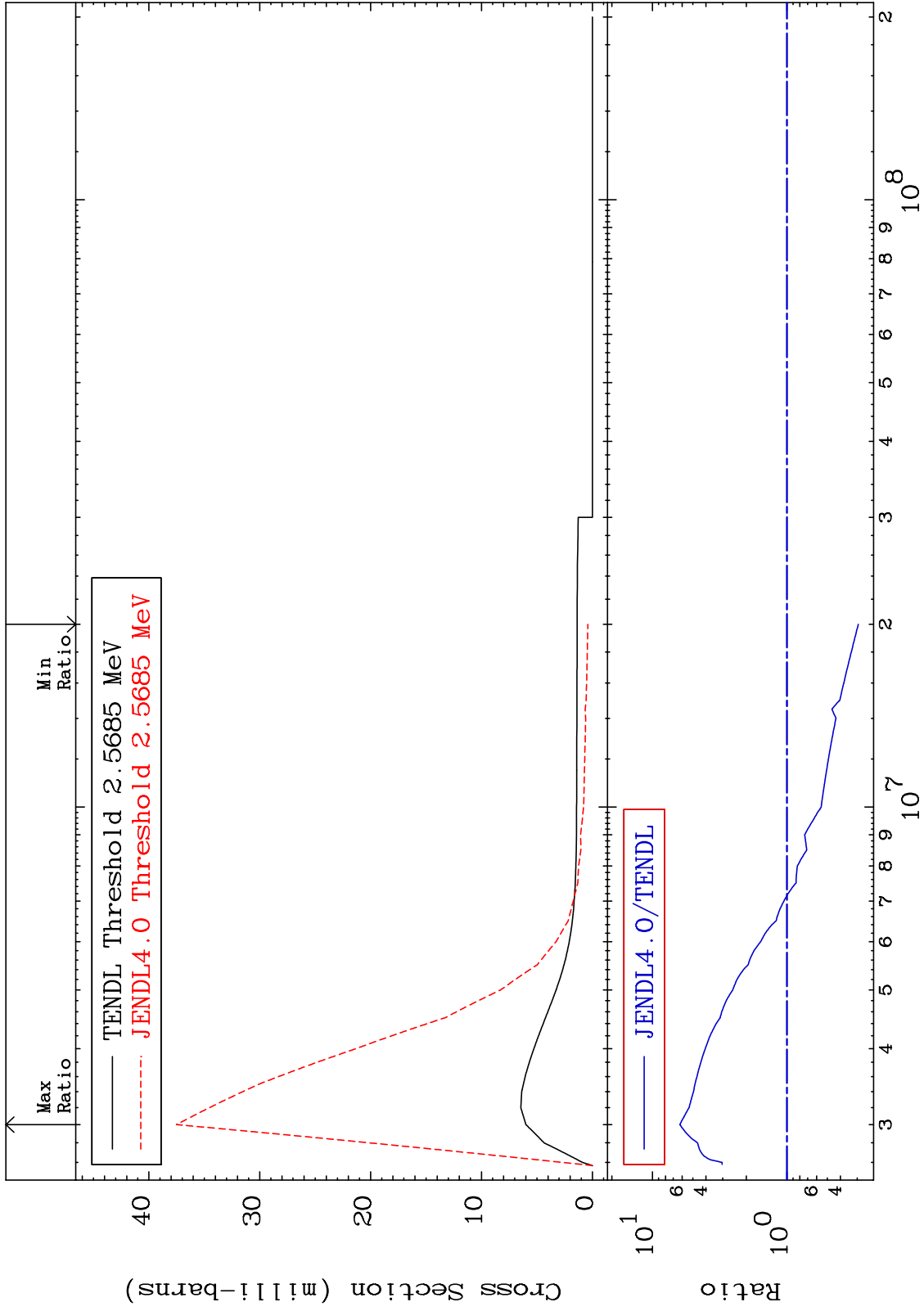
38-Sr-87
-52.96 To 456.7 %



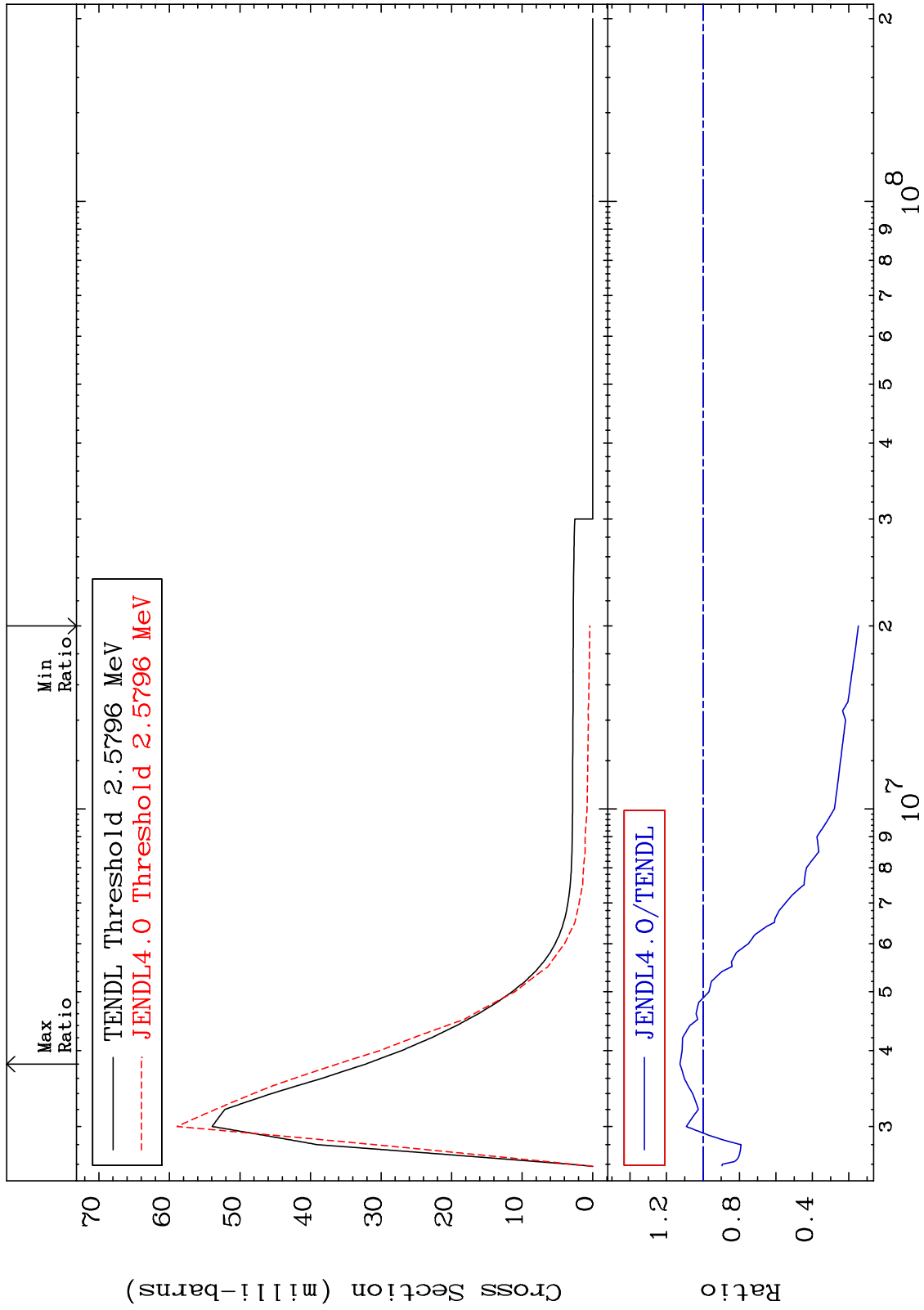
MAT 3834

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

38-Sr-87
-70.60 To 525.6 %



MAT 3834 MT= 70 (n,n') Level Cross Section 38-Sr-87
 -85.25 To 12.60 %

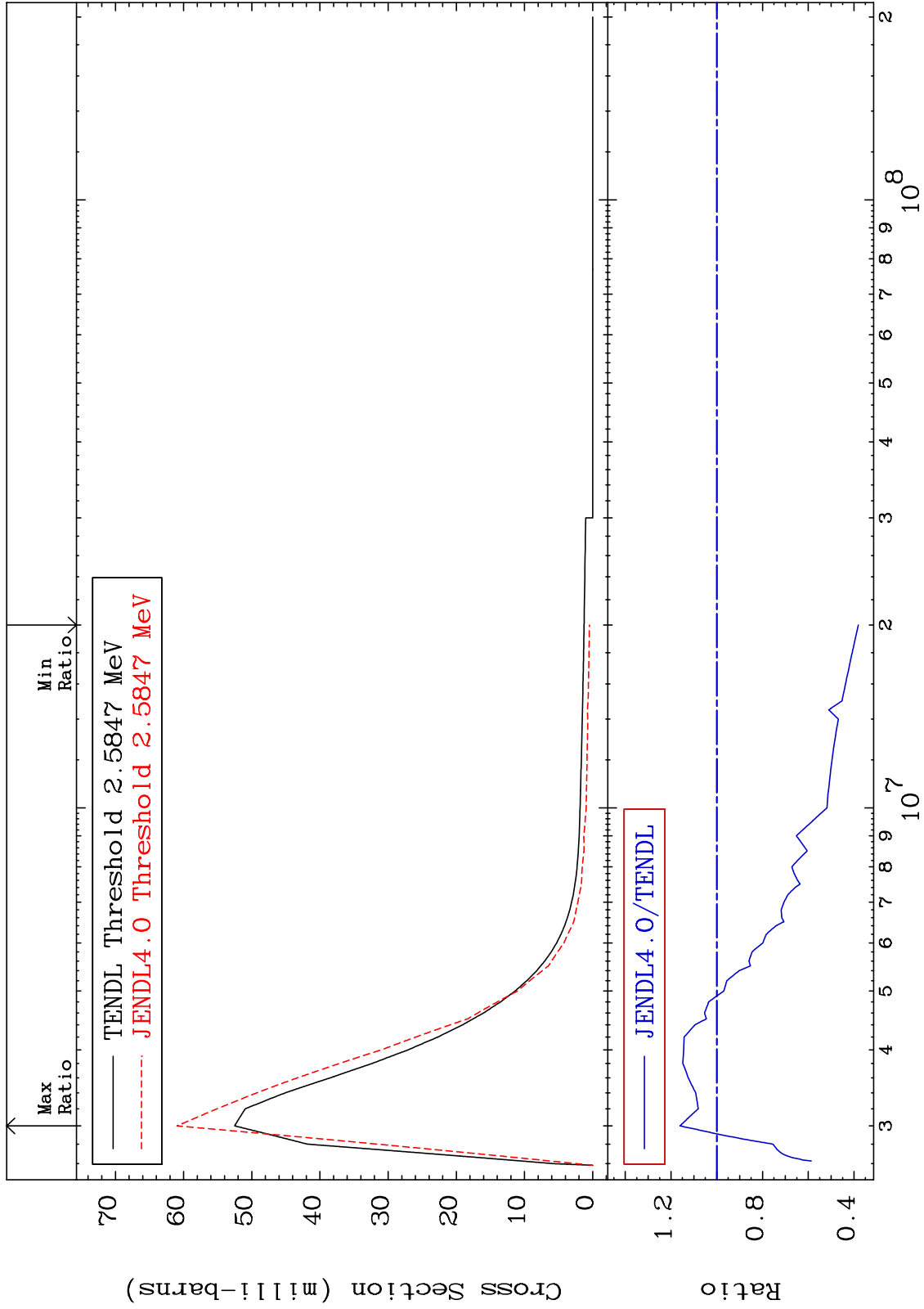


27 38-Sr-87 Incident Energy (eV)

MAT 3834

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

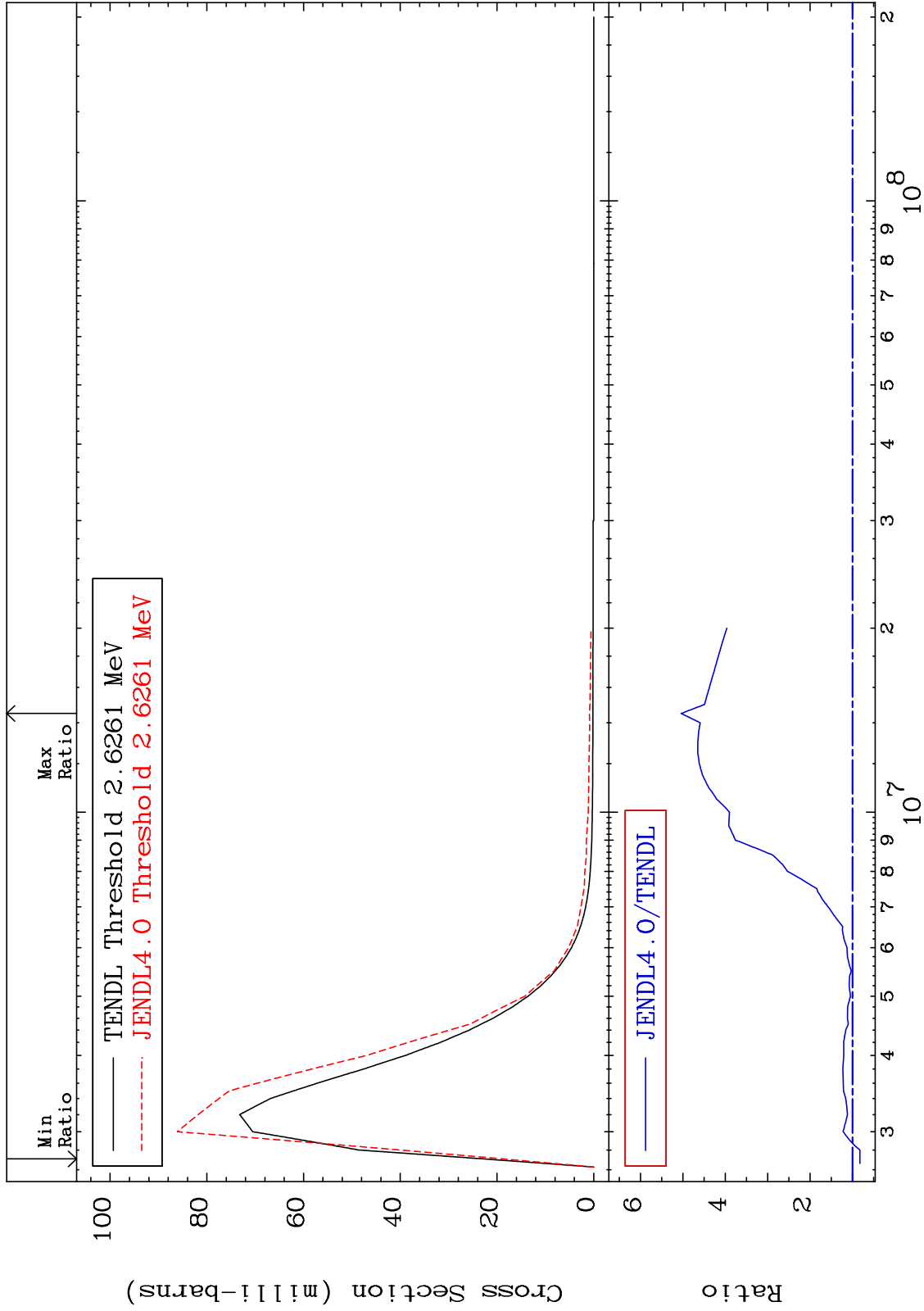
38-Sr-87
-61.92 To 16.06 %



MAT 3834

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

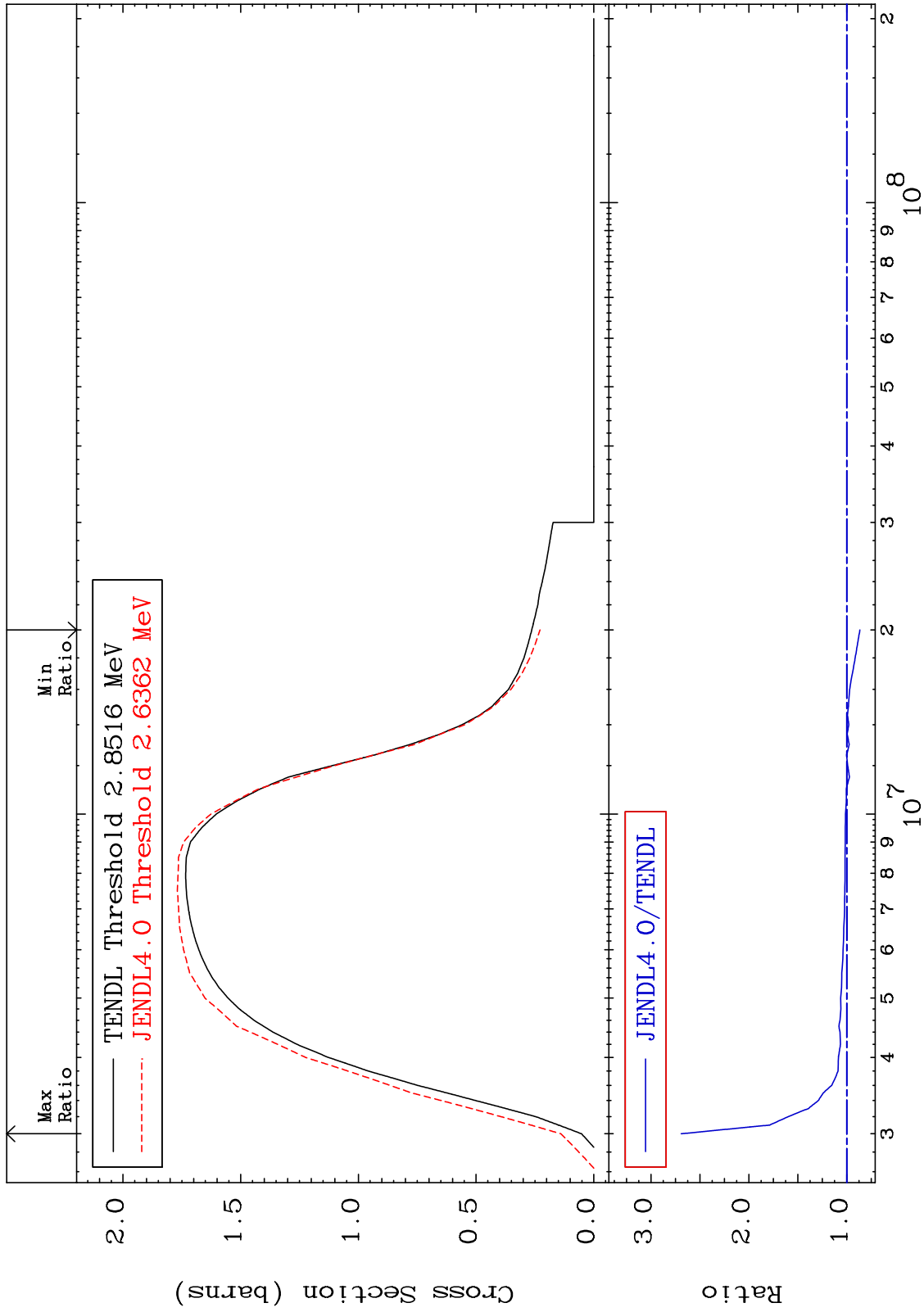
38-Sr-87
-17.54 To 404.0 %



MAT 3834

(n, n') Continuum
Cross Section

38-Sr-87
-13.35 To 169.1 %



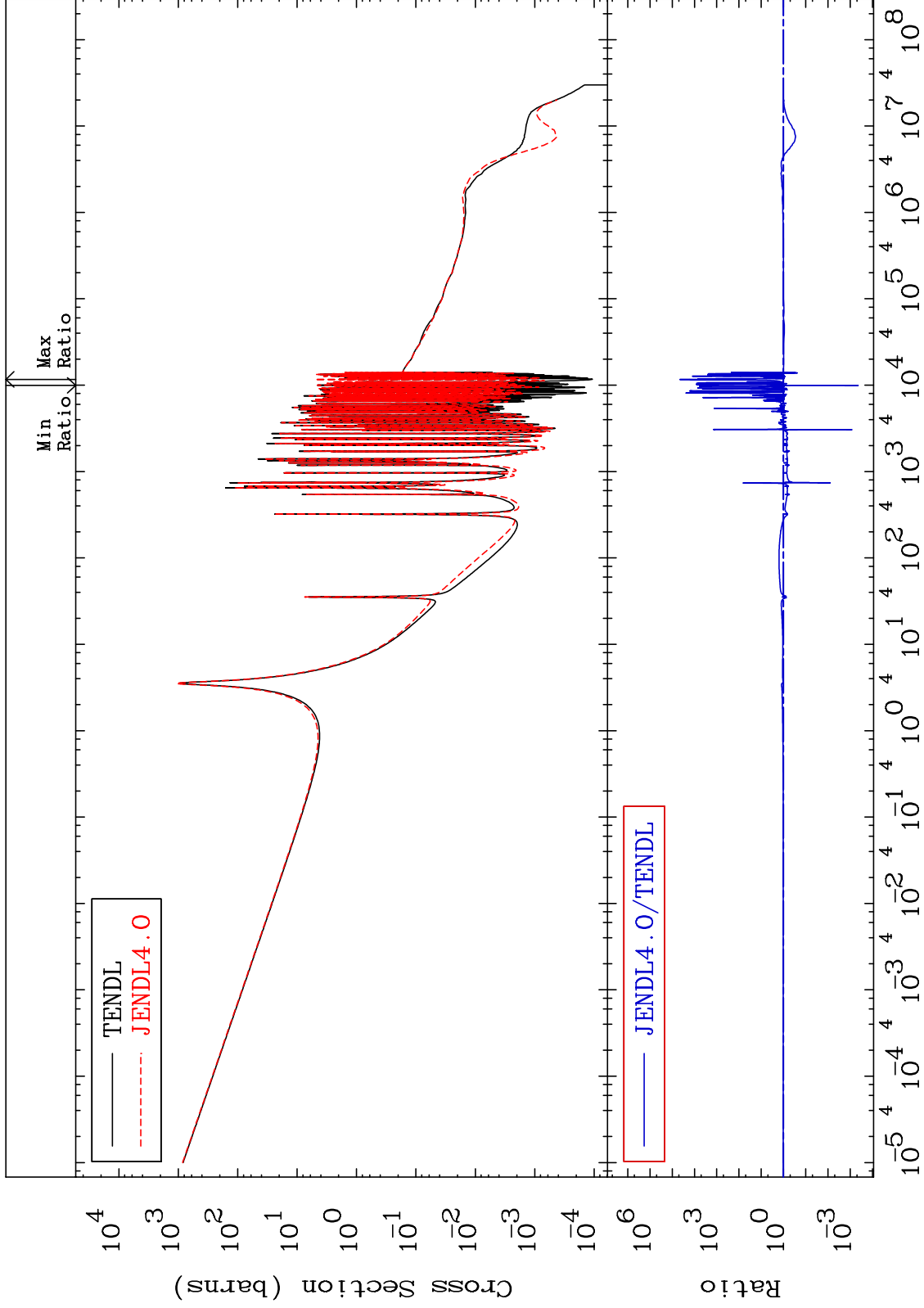
MAT 3834

(n, γ)

38-Sr-87

Cross Section

-99.96 To 9999. %



31

Incident Energy (eV)

38-Sr-87

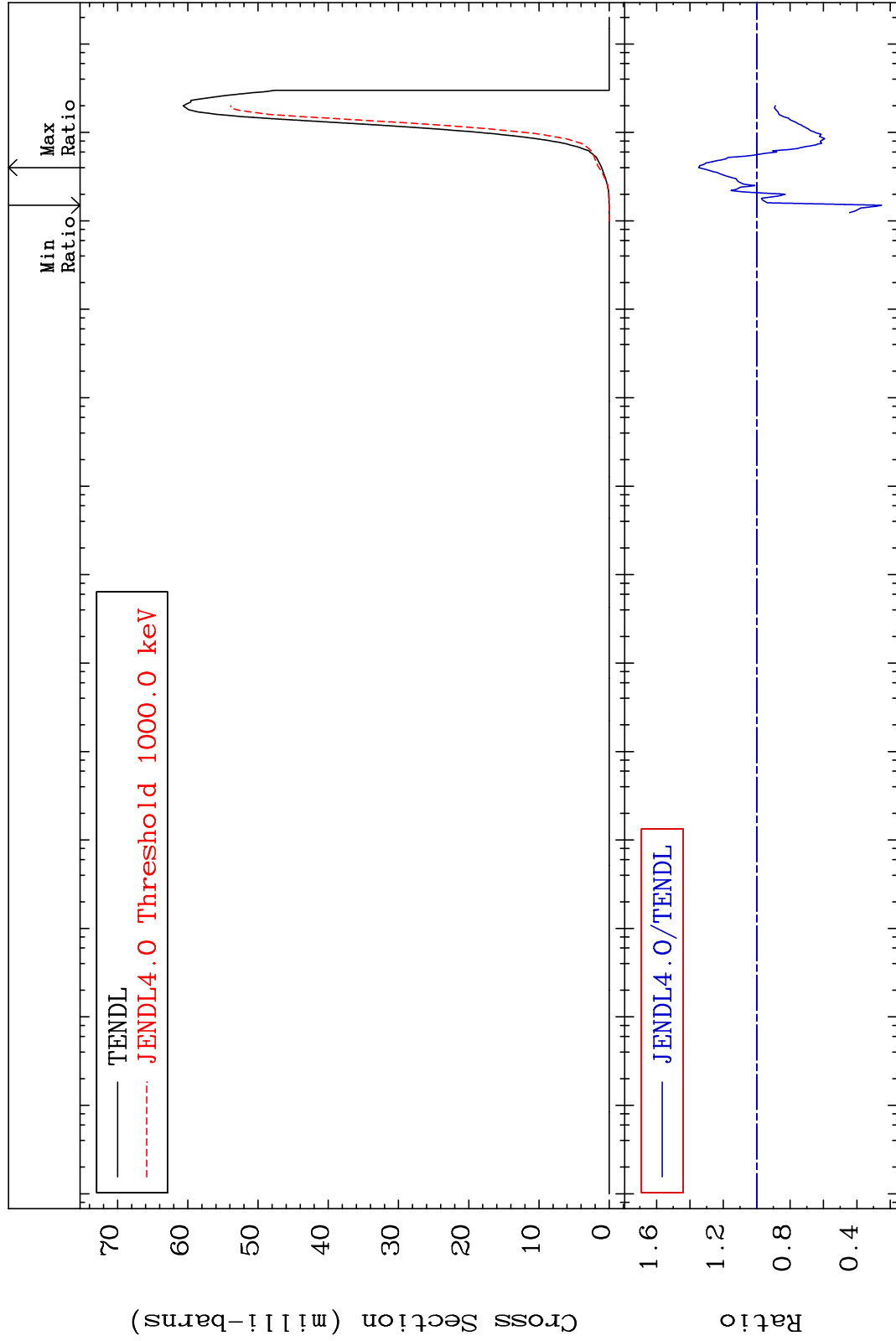
MAT 3834

(n,p)

38-Sr-87

Cross Section

-74.81 To 34.75 %



Incident Energy (eV)

38-Sr-87

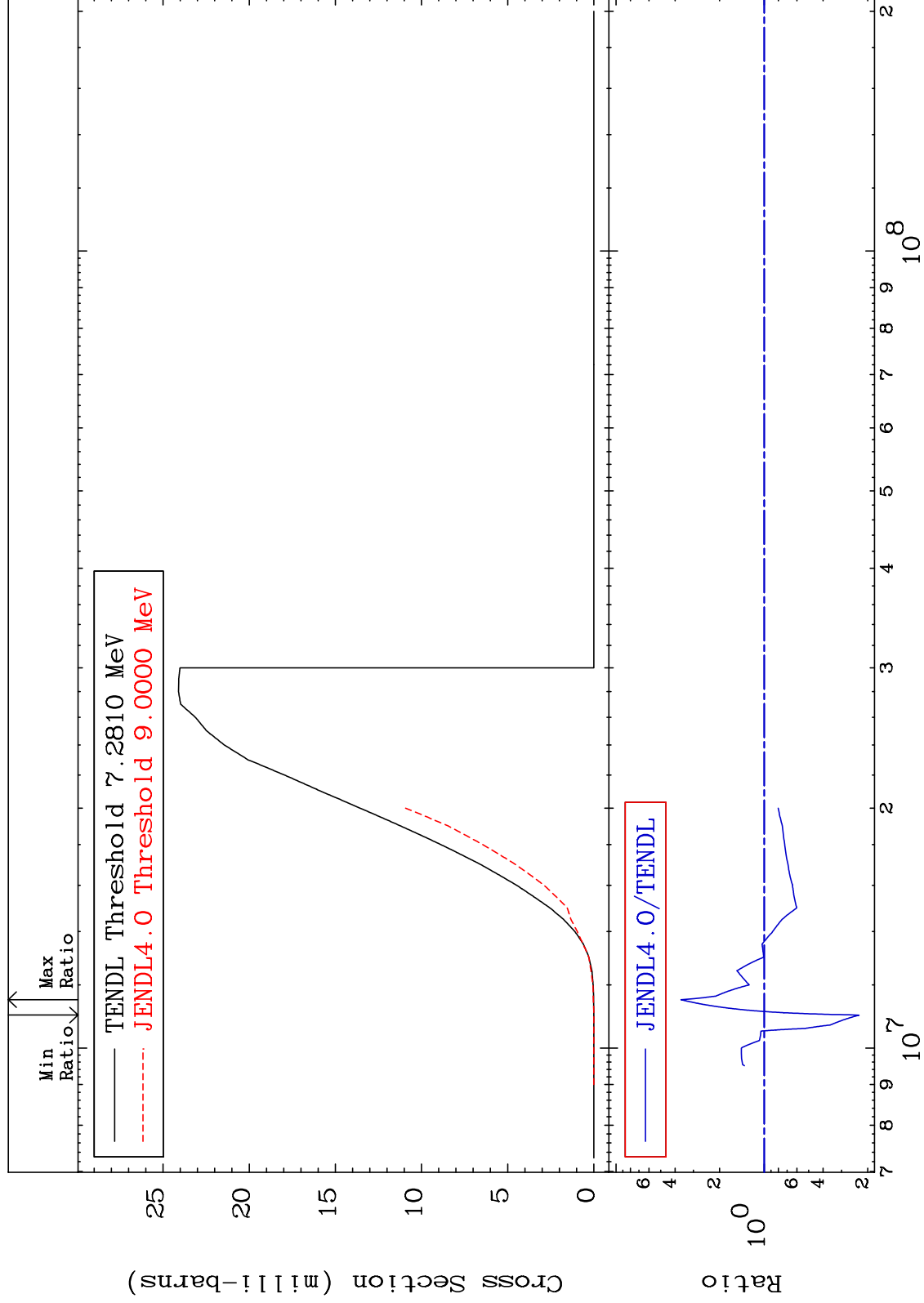
MAT 3834

(n, d)

38-Sr-87

Cross Section

-77.22 To 264.1 %



Incident Energy (eV)

38-Sr-87

33

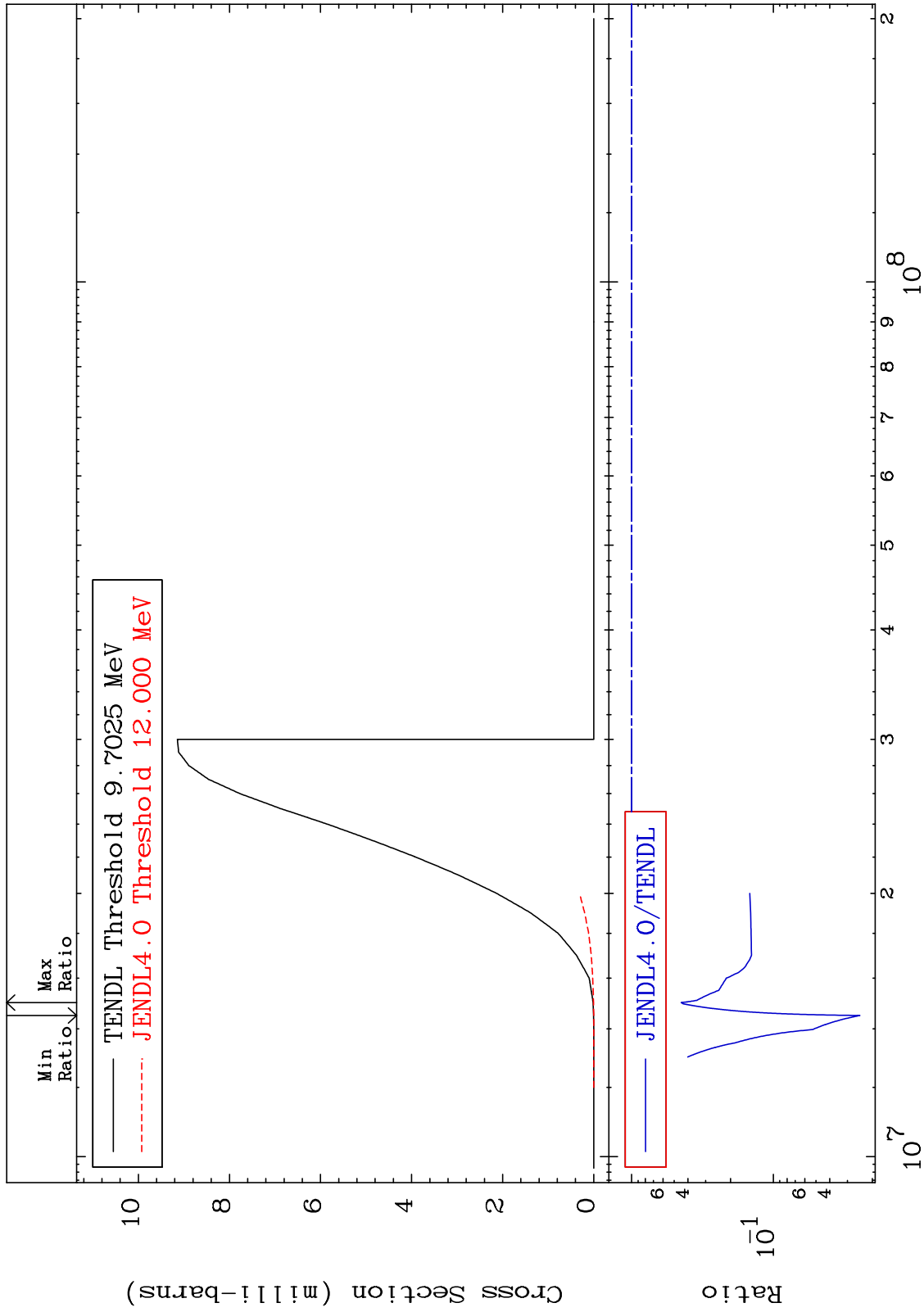
MAT 3834

(n, t)

38-Sr-87

Cross Section

-97.55 To -55.38%



34

Incident Energy (eV)

38-Sr-87

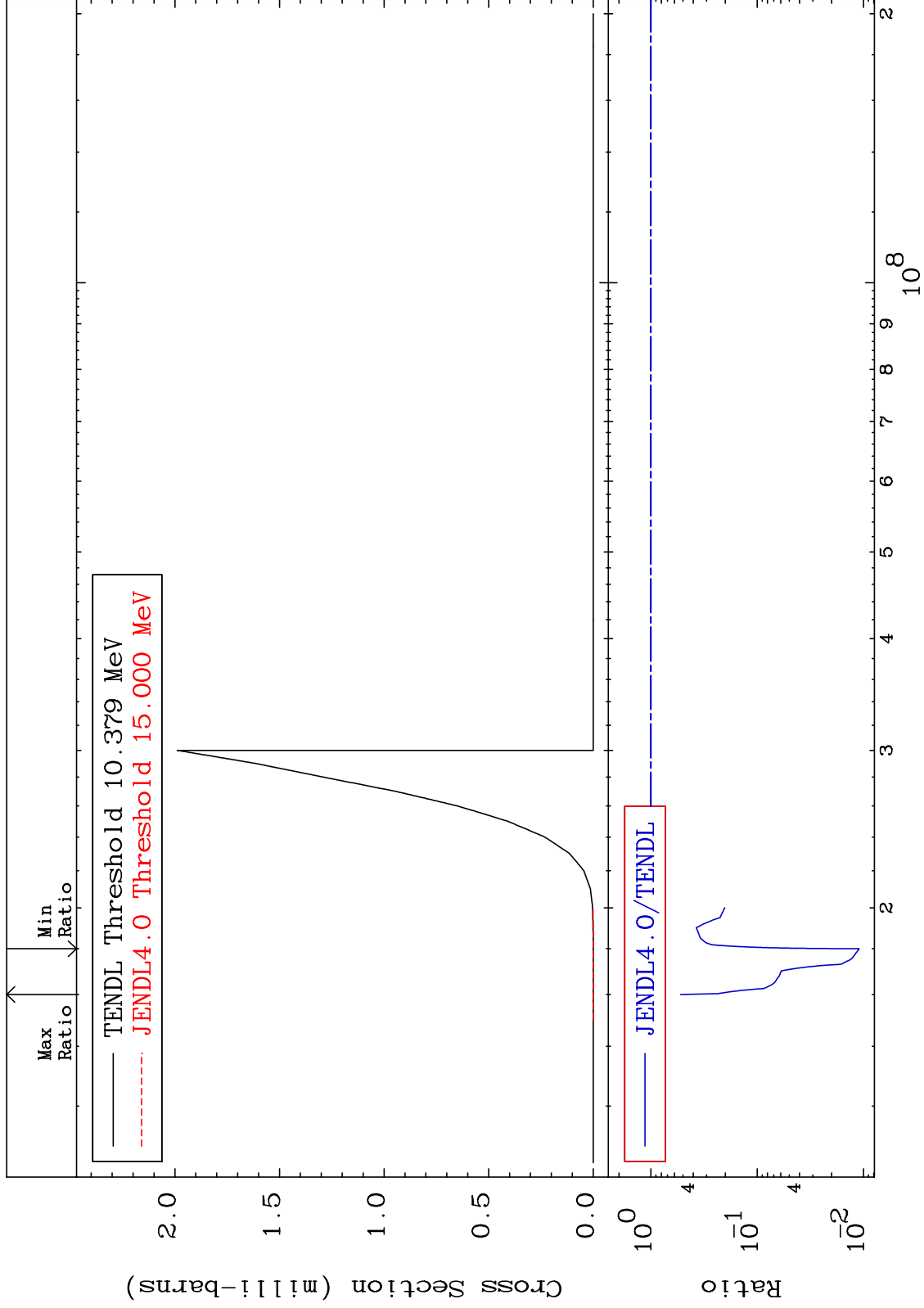
MAT 3834

(n, He-3)

38-Sr-87

Cross Section

-98.90 To -47.41%



35

Incident Energy (eV)

38-Sr-87

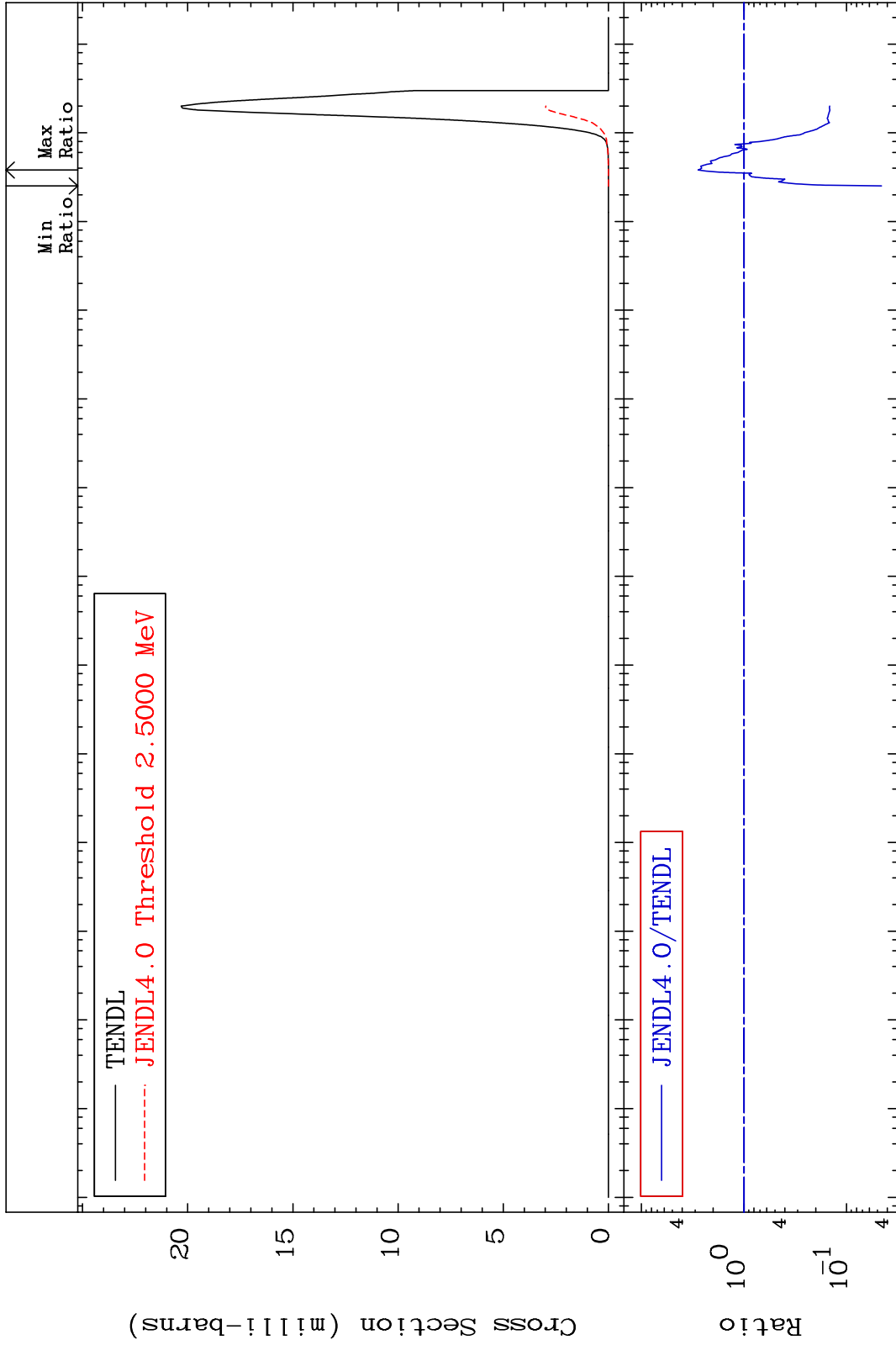
MAT 3834

(n, α)

38-Sr-87

Cross Section

-95.44 To 180.0 %



36

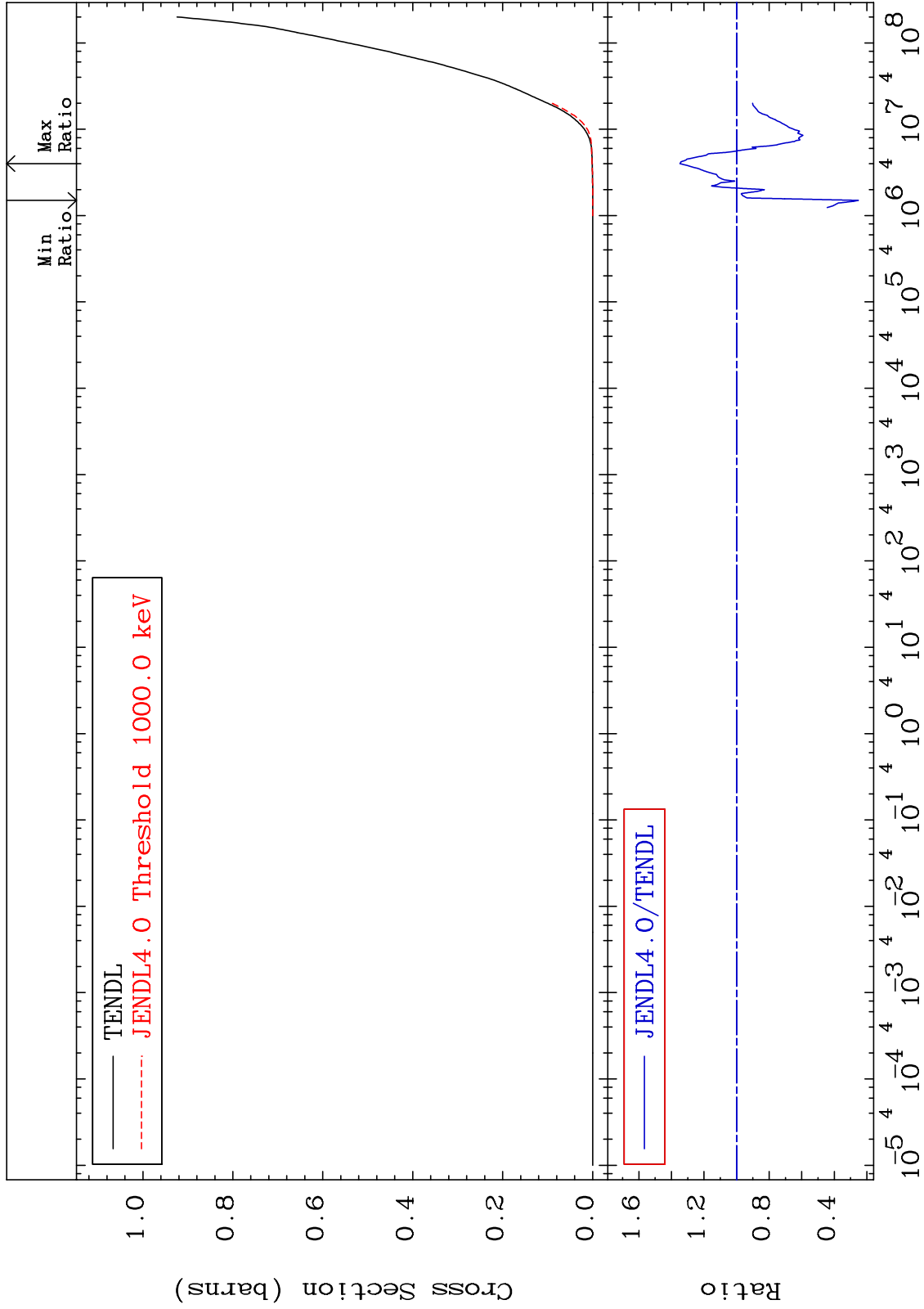
Incident Energy (eV)

38-Sr-87

MAT 3834

Hydrogen Production Cross Section

38-Sr-87
-74.81 To 34.75 %



37

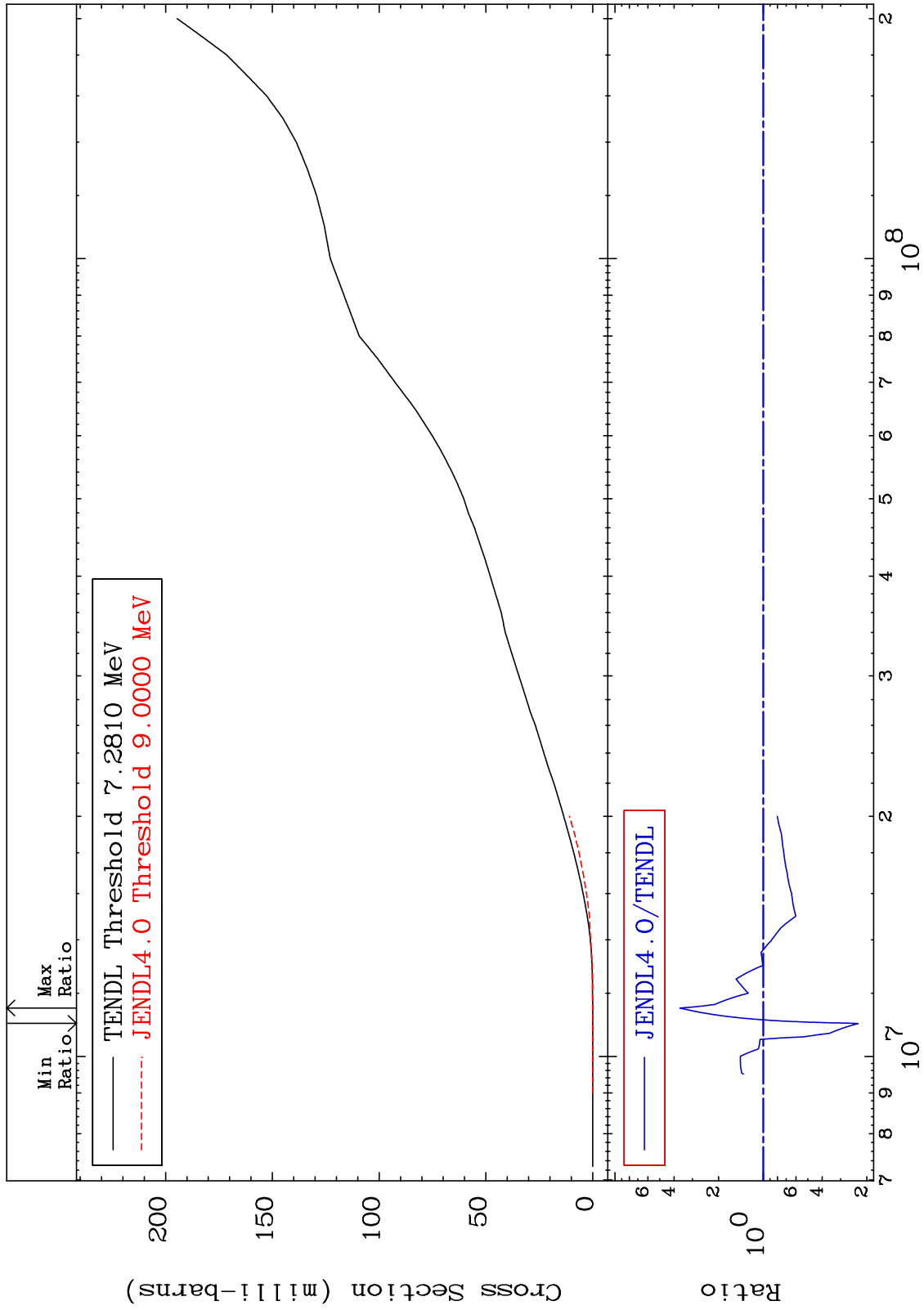
Incident Energy (eV)

38-Sr-87

MAT 3834

Deuterium Production
Cross Section

38-Sr-87
-77.22 To 264.1 %



38

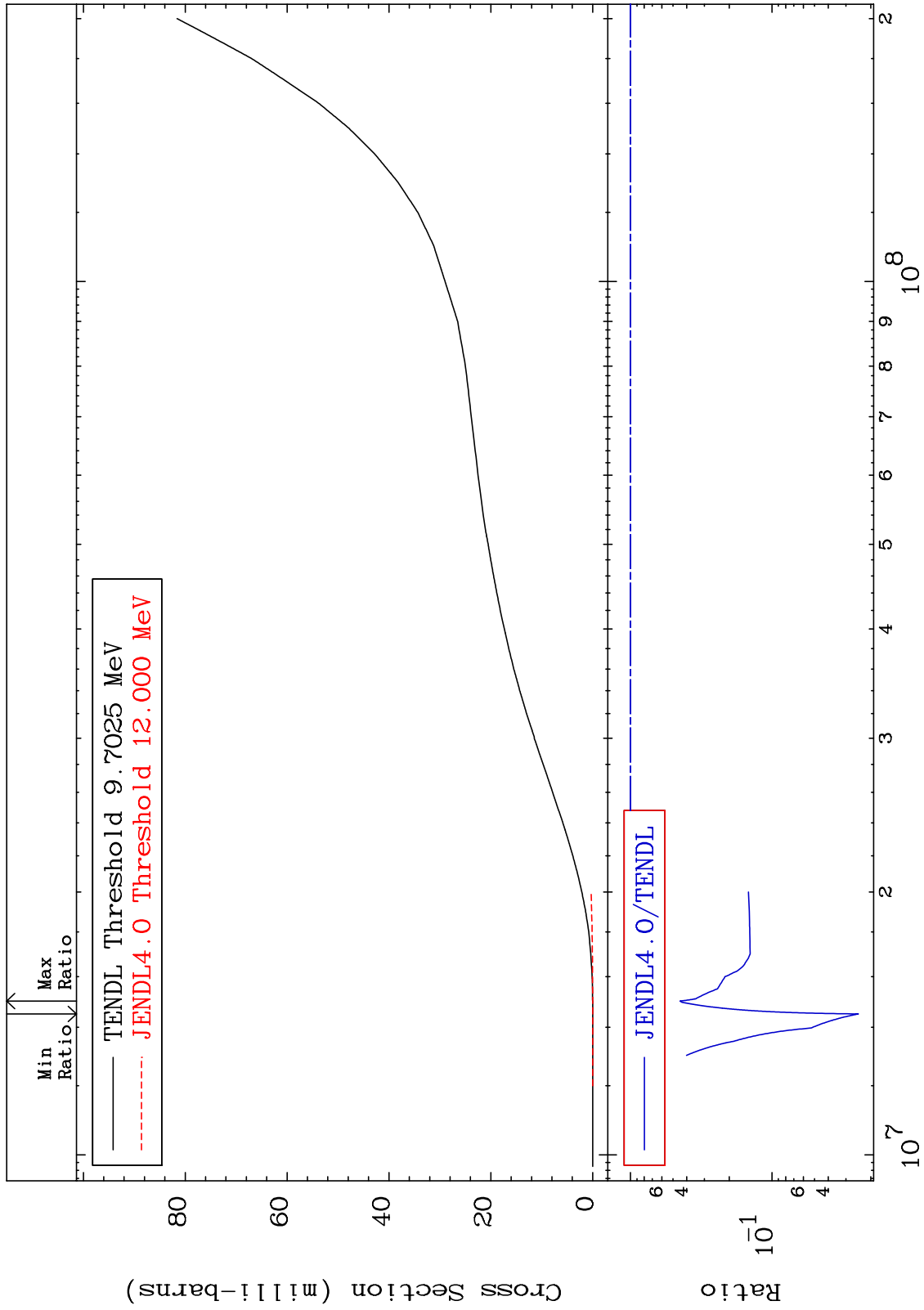
Incident Energy (eV)

38-Sr-87

MAT 3834

Tritium Production
Cross Section

38-Sr-87
-97.55 To -55.38%



39

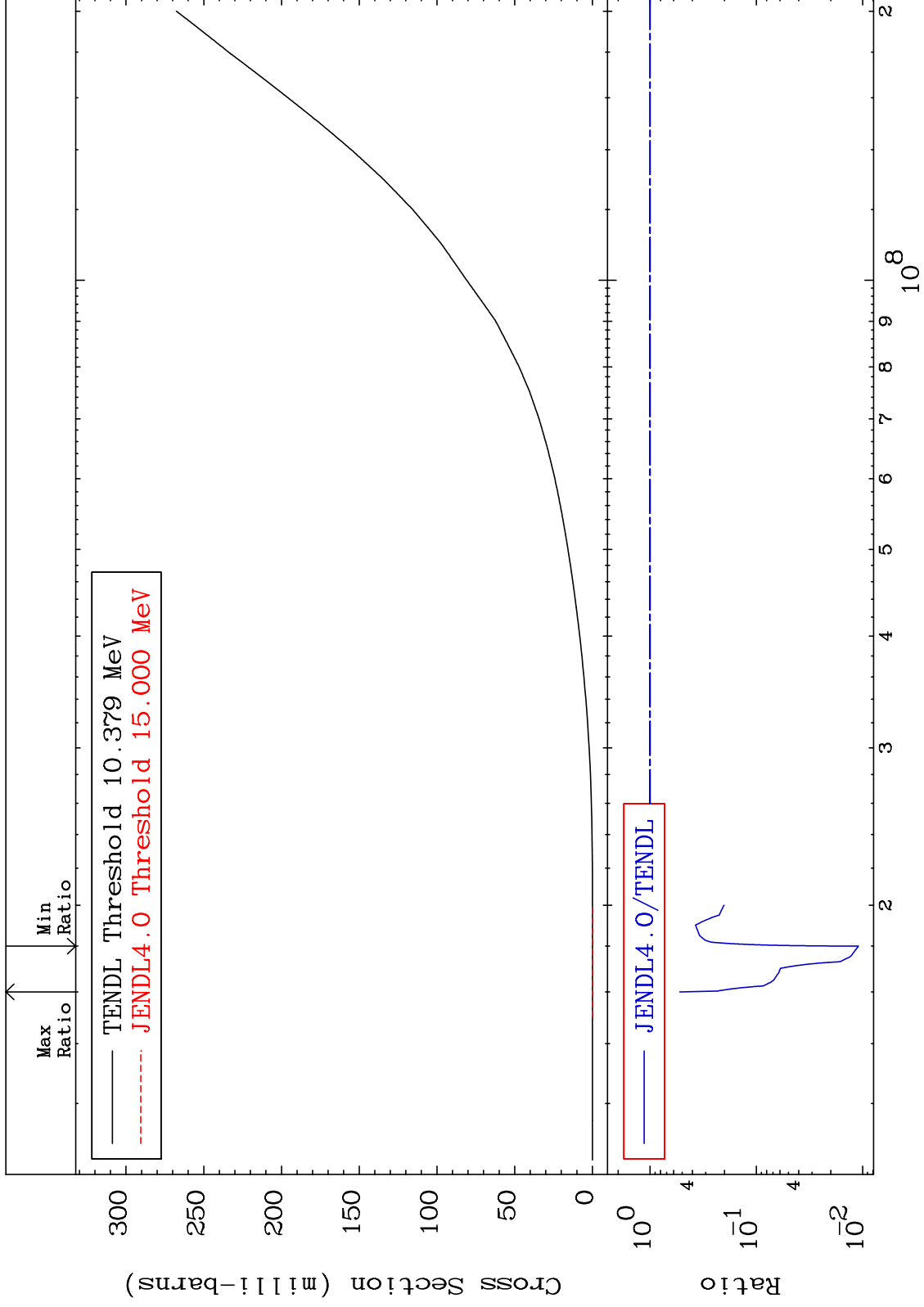
Incident Energy (eV)

38-Sr-87

MAT 3834

He-3 Production
Cross Section

38-Sr-87
-98.90 To -47.41%



40

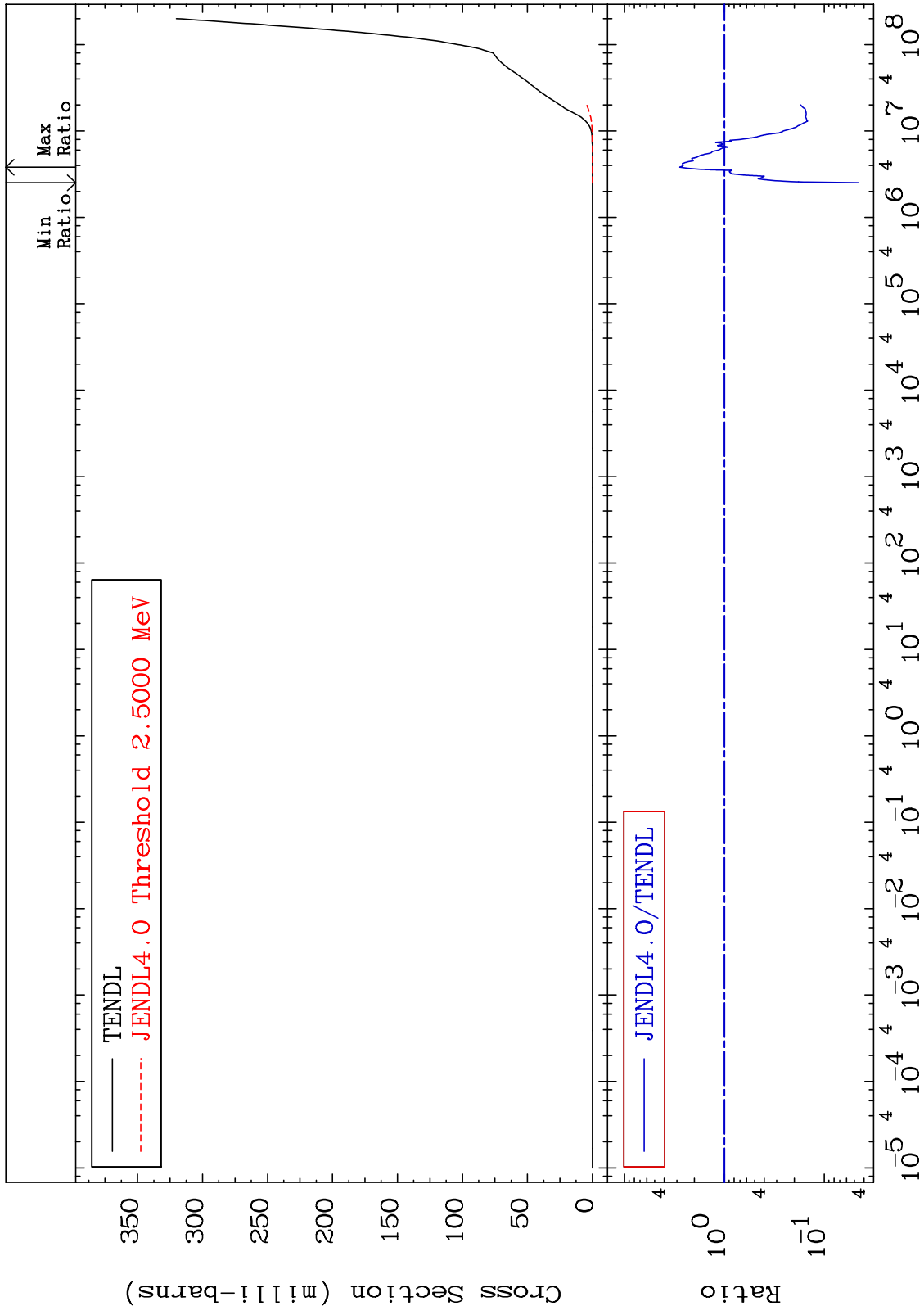
Incident Energy (eV)

38-Sr-87

MAT 3834

He-4 Production
Cross Section

38-Sr-87
-95.44 To 180.0 %



41

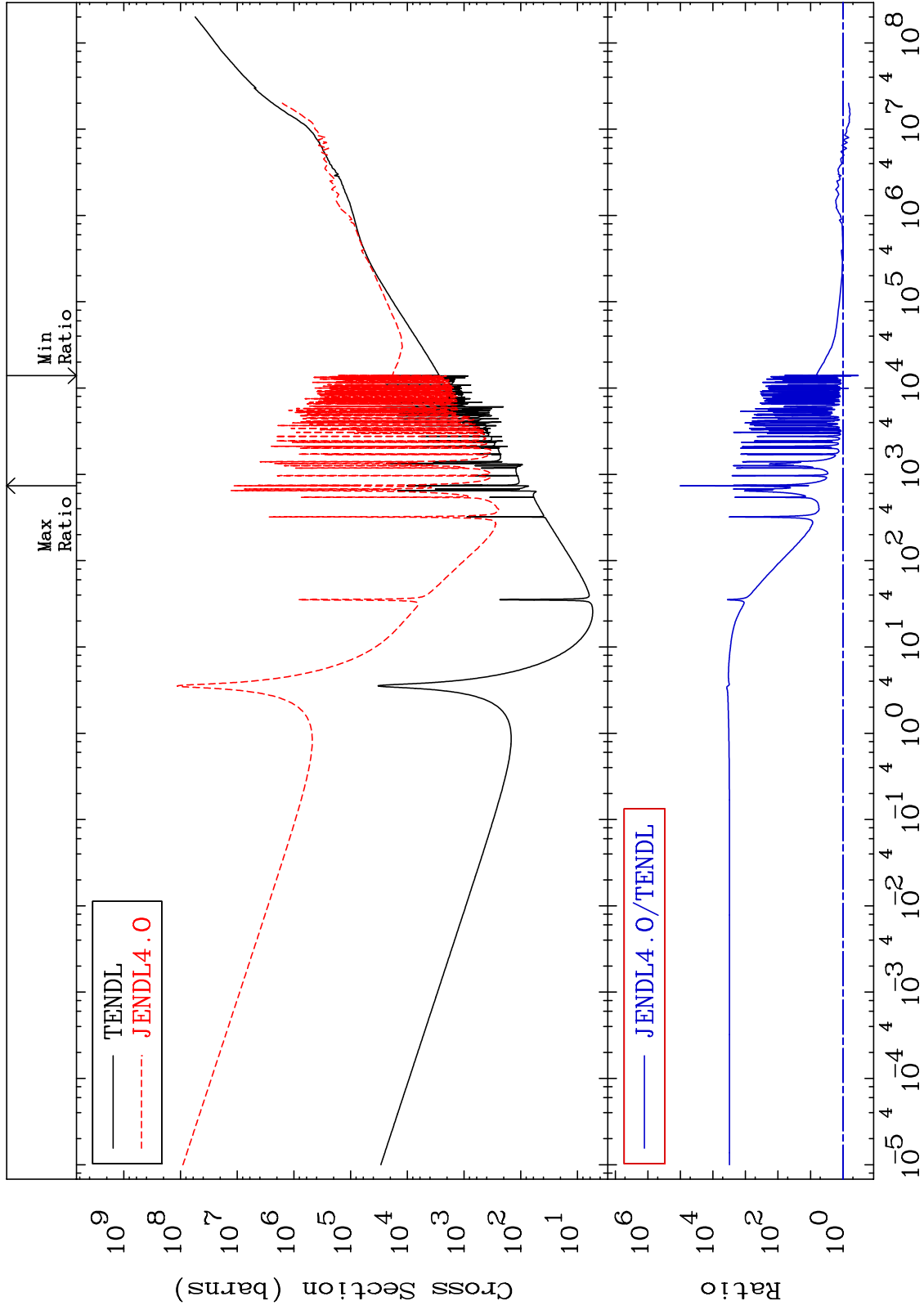
Incident Energy (eV)

38-Sr-87

MAT 3834

Kerma total (eV-barns)
Cross Section

38-Sr-87
-66.32 To 9999. %



42

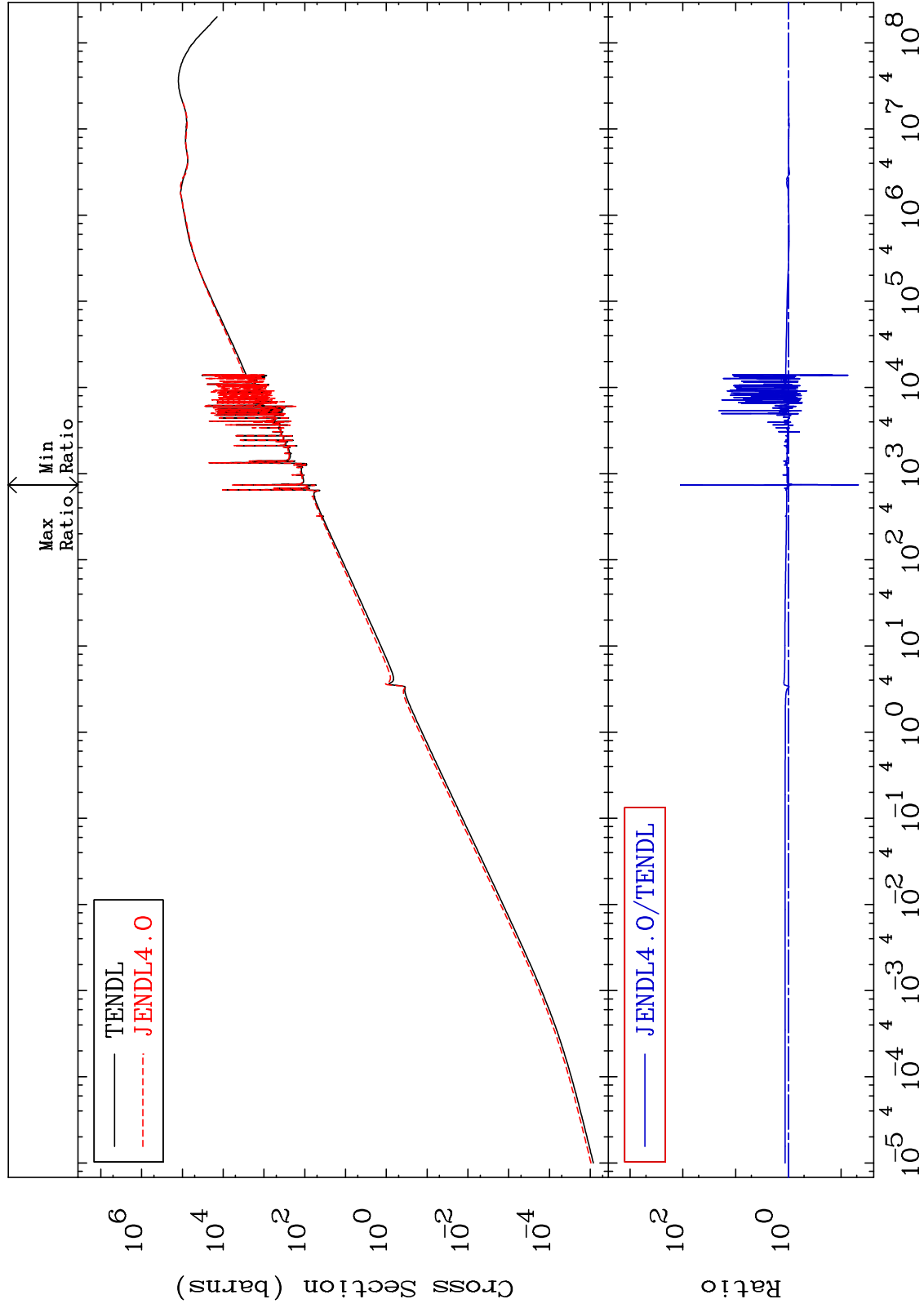
Incident Energy (eV)

38-Sr-87

MAT 3834

Kerma elastic
Cross Section

38-Sr-87
-95.35 To 9999. %



43

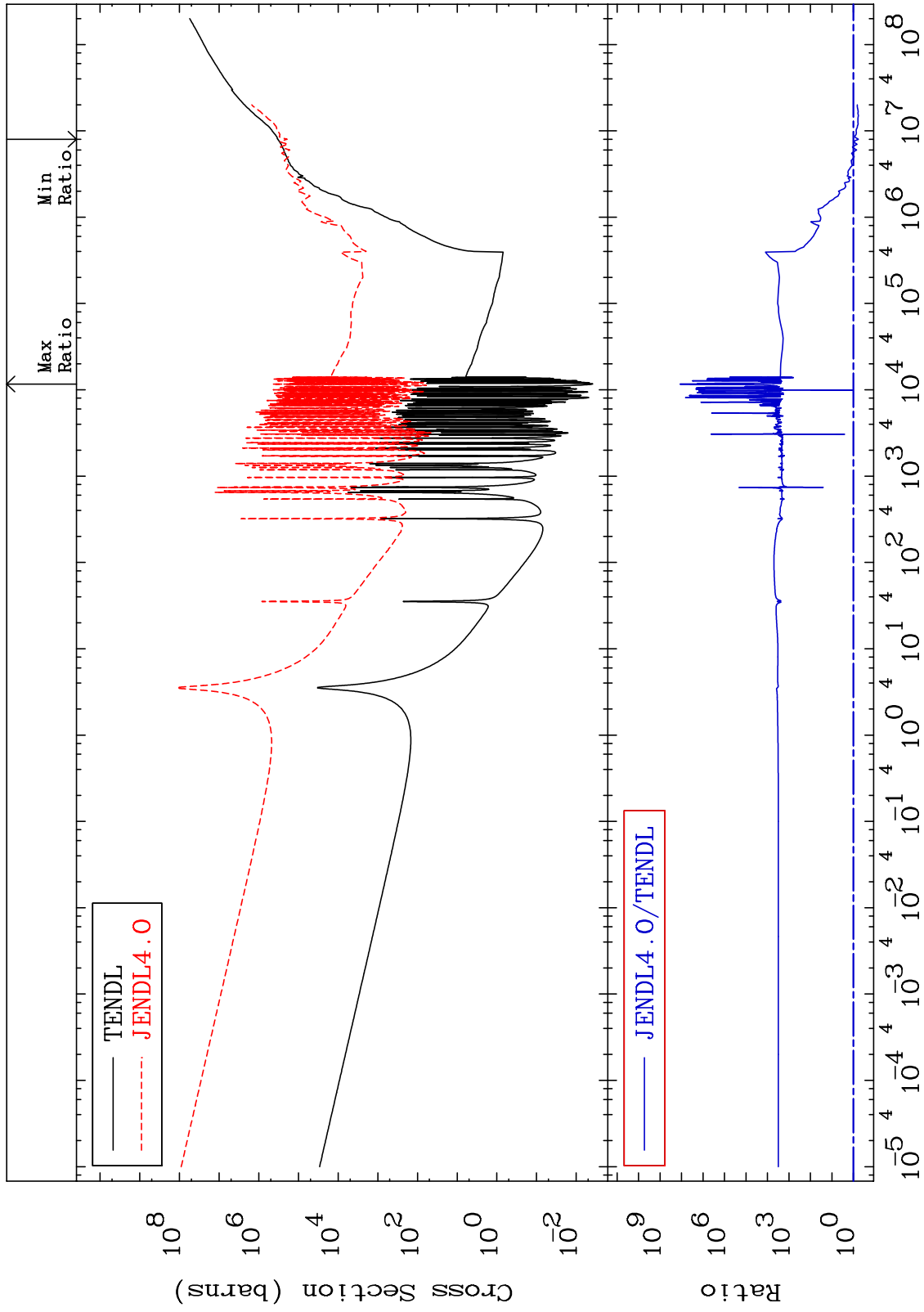
Incident Energy (eV)

38-Sr-87

MAT 3834

Kerma non-elastic (all but mt2)
Cross Section

38-Sr-87
-41.86 To 9999. %



44

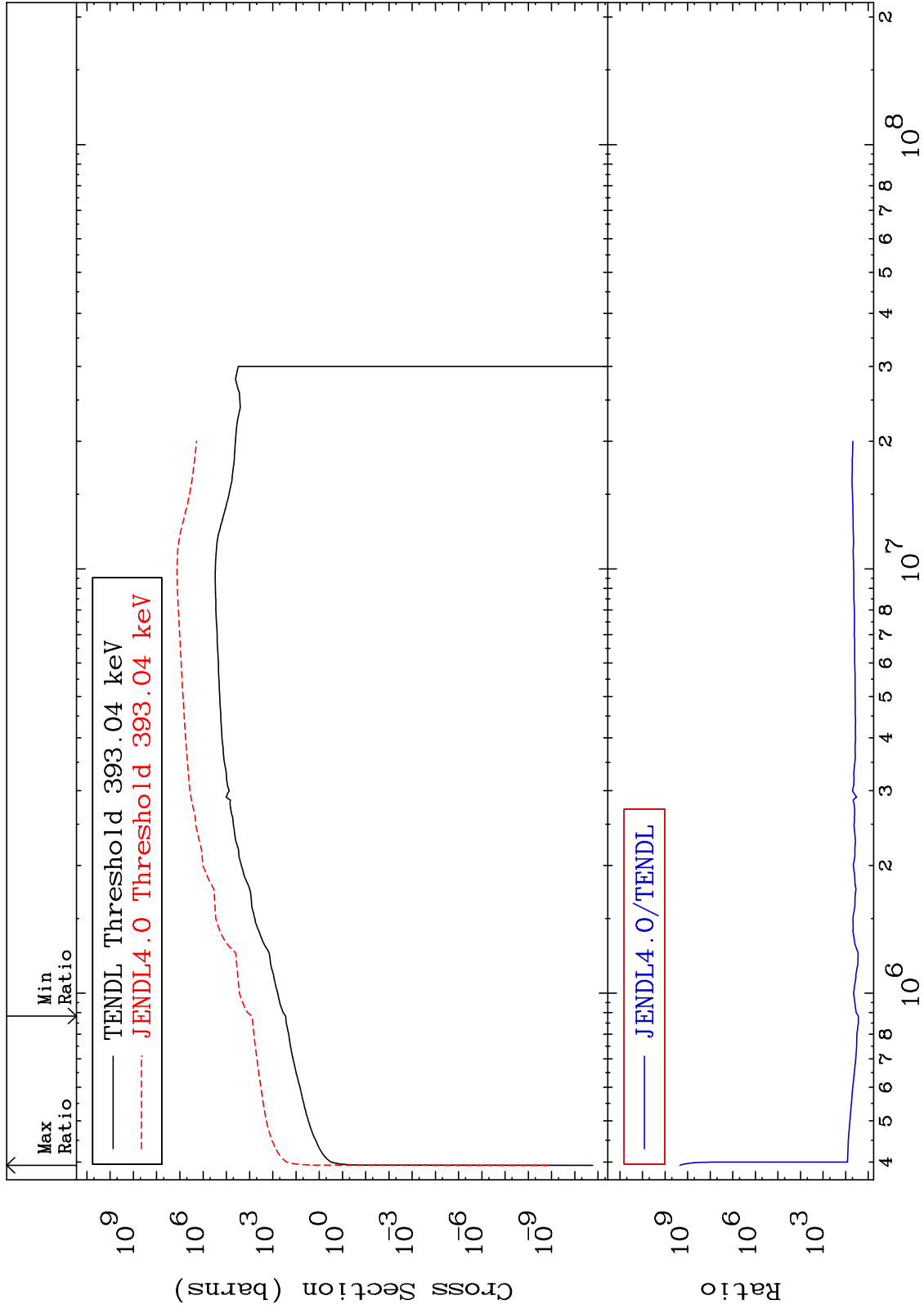
Incident Energy (eV)

38-Sr-87

MAT 3834

Kerma inelastic (mt51-91)
Cross Section

38-Sr-87
2611. To 9999. %



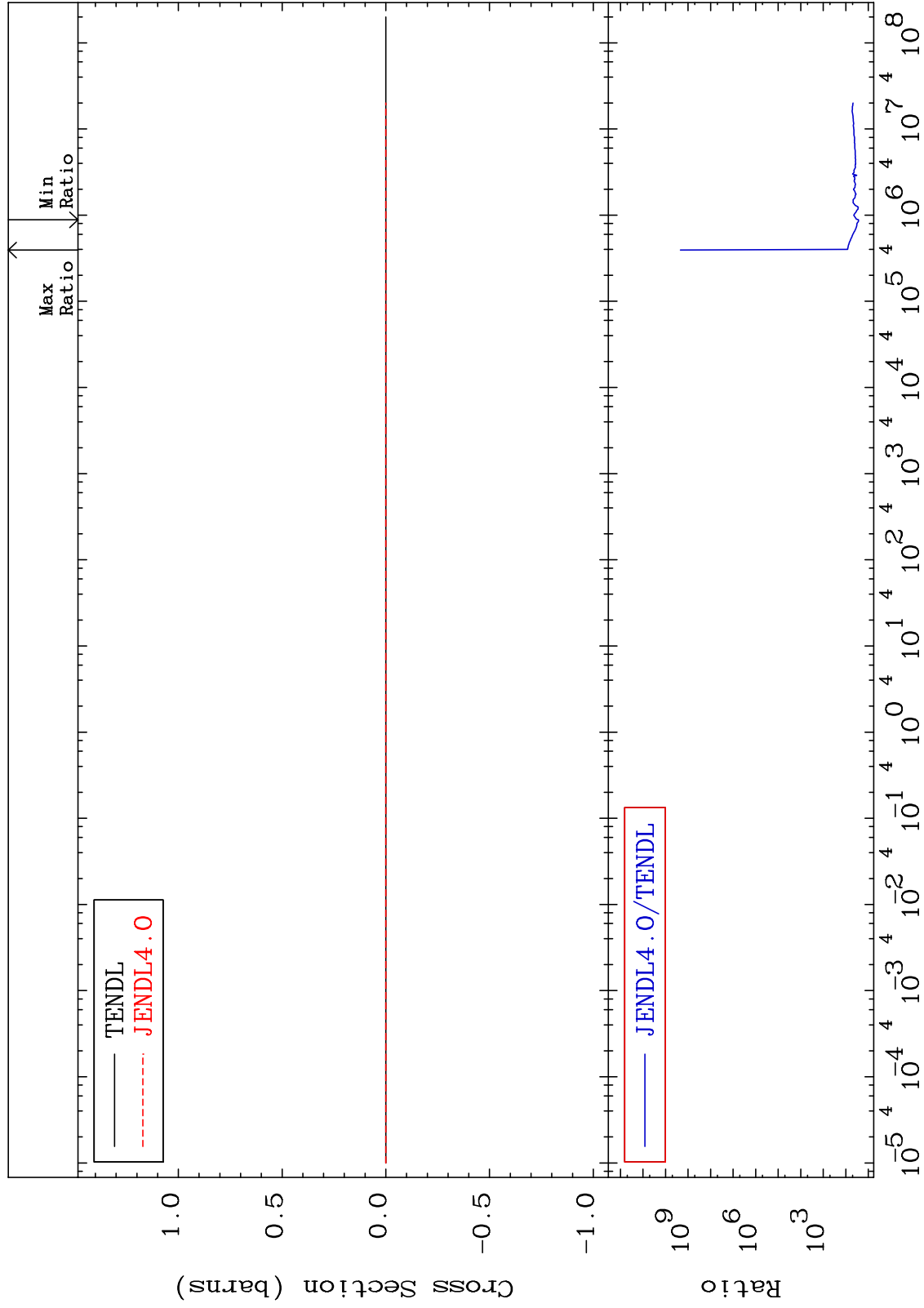
45

38-Sr-87

MAT 3834

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

38-Sr-87
2611. To 9999. %



46

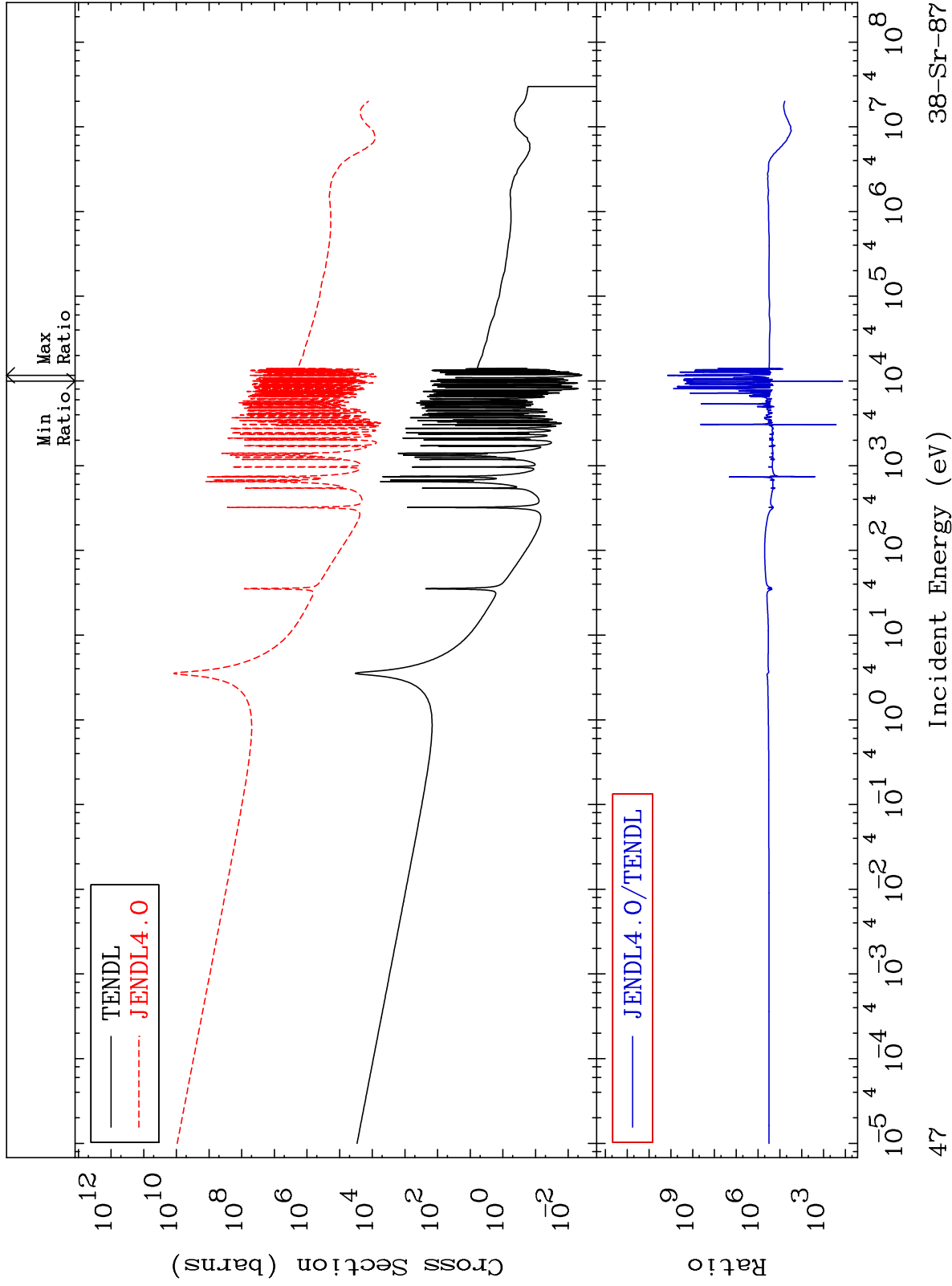
Incident Energy (eV)

38-Sr-87

MAT 3834

Kerma capture (mt102)
Cross Section

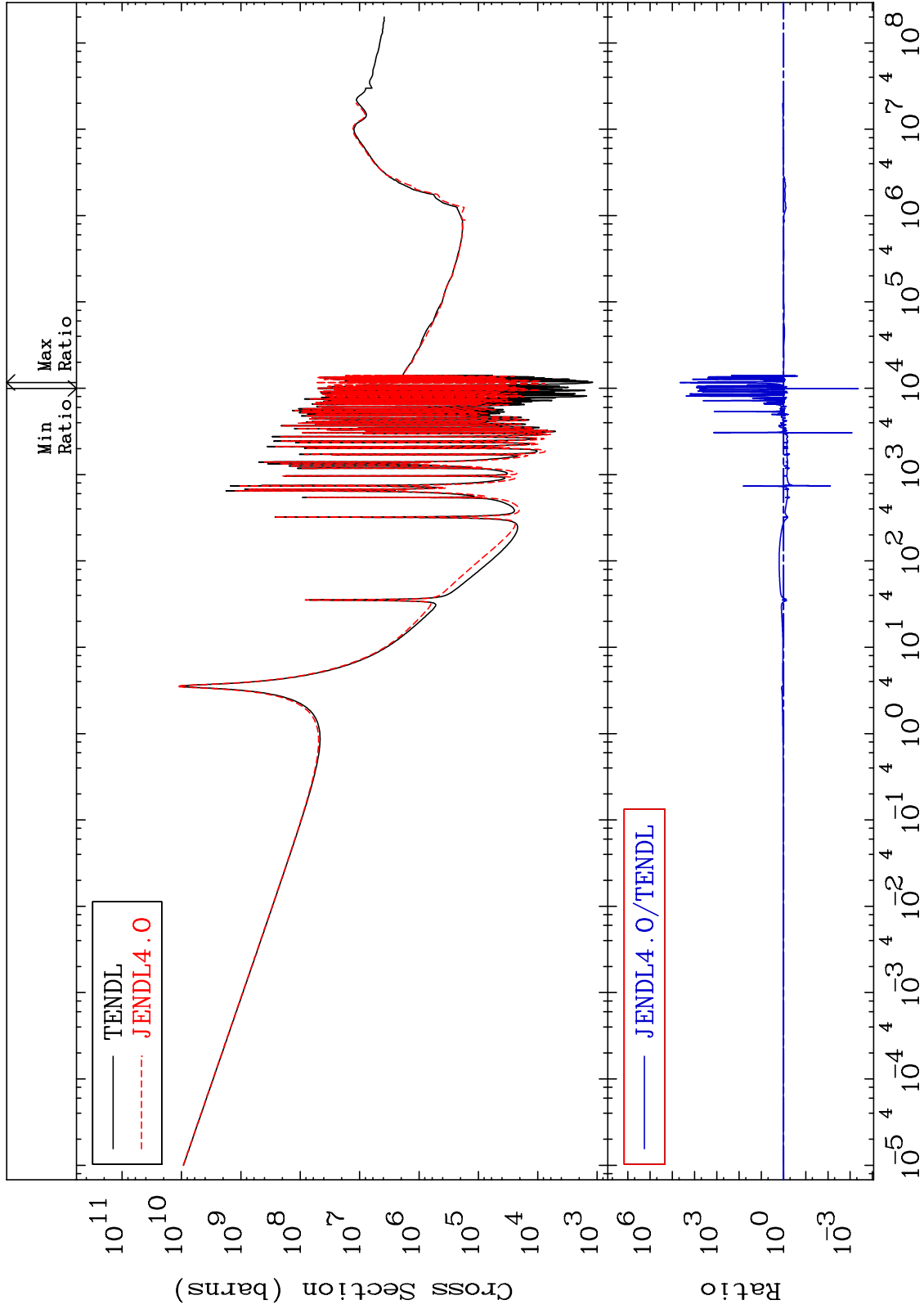
38-Sr-87
9999. To 9999. %



MAT 3834

Total photon (eV-barns)
Cross Section

38-Sr-87
-99.96 To 9999. %



48

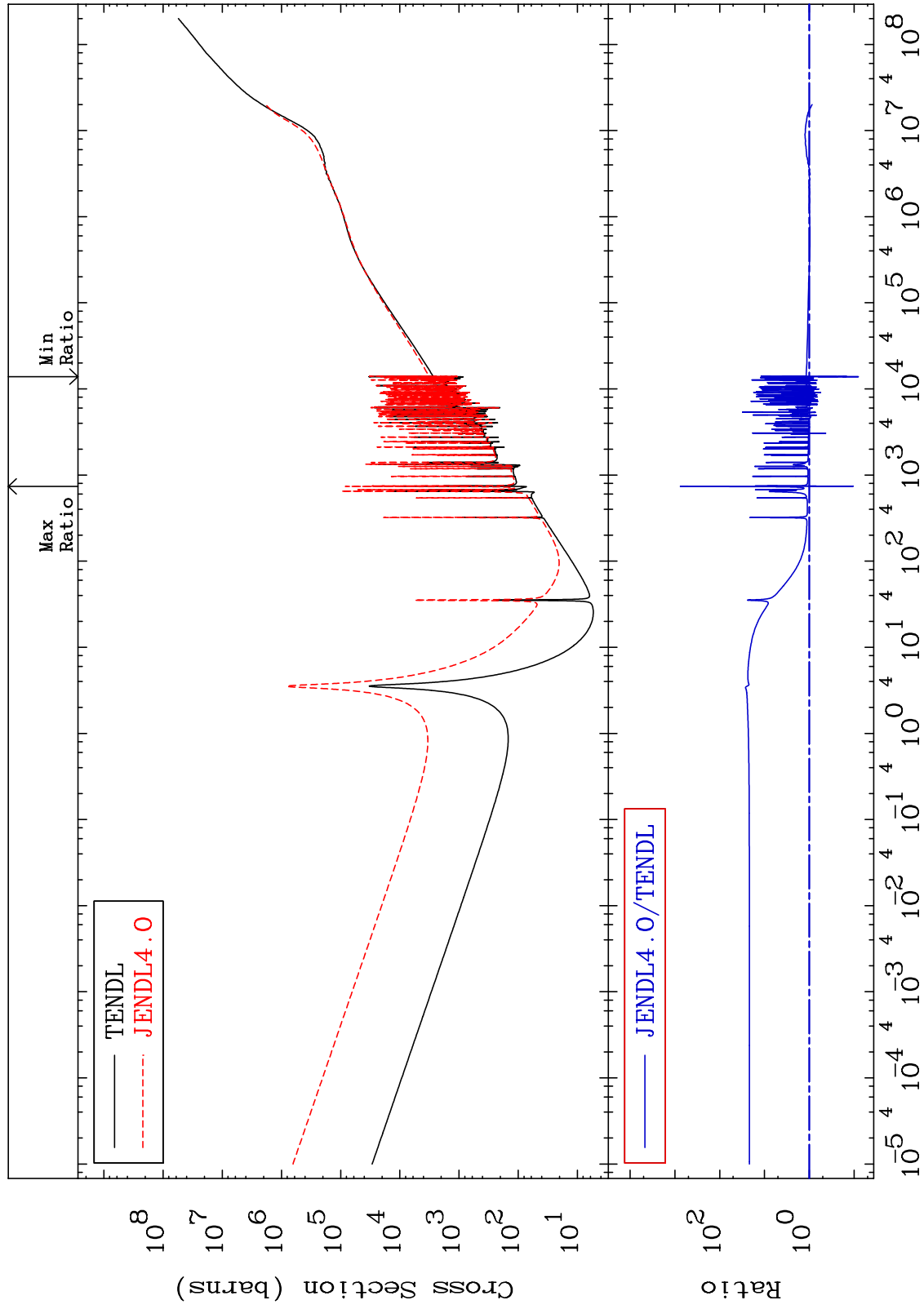
Incident Energy (eV)

38-Sr-87

MAT 3834

Total kinematic kerma (high limit)
Cross Section

38-Sr-87
-92.03 To 9999. %



49

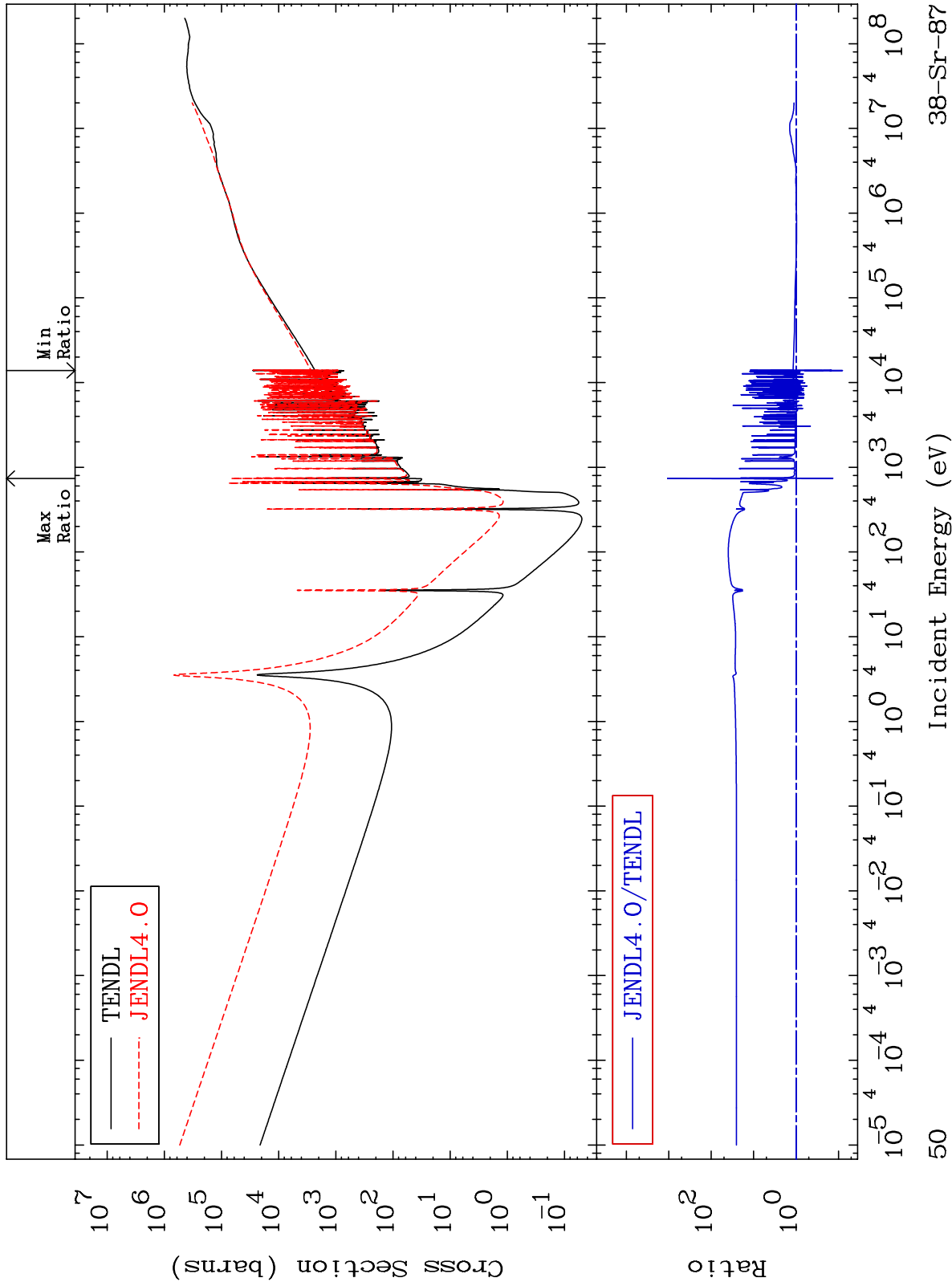
Incident Energy (eV)

38-Sr-87

MAT 3834

Dpa total (eV-barns)
Cross Section

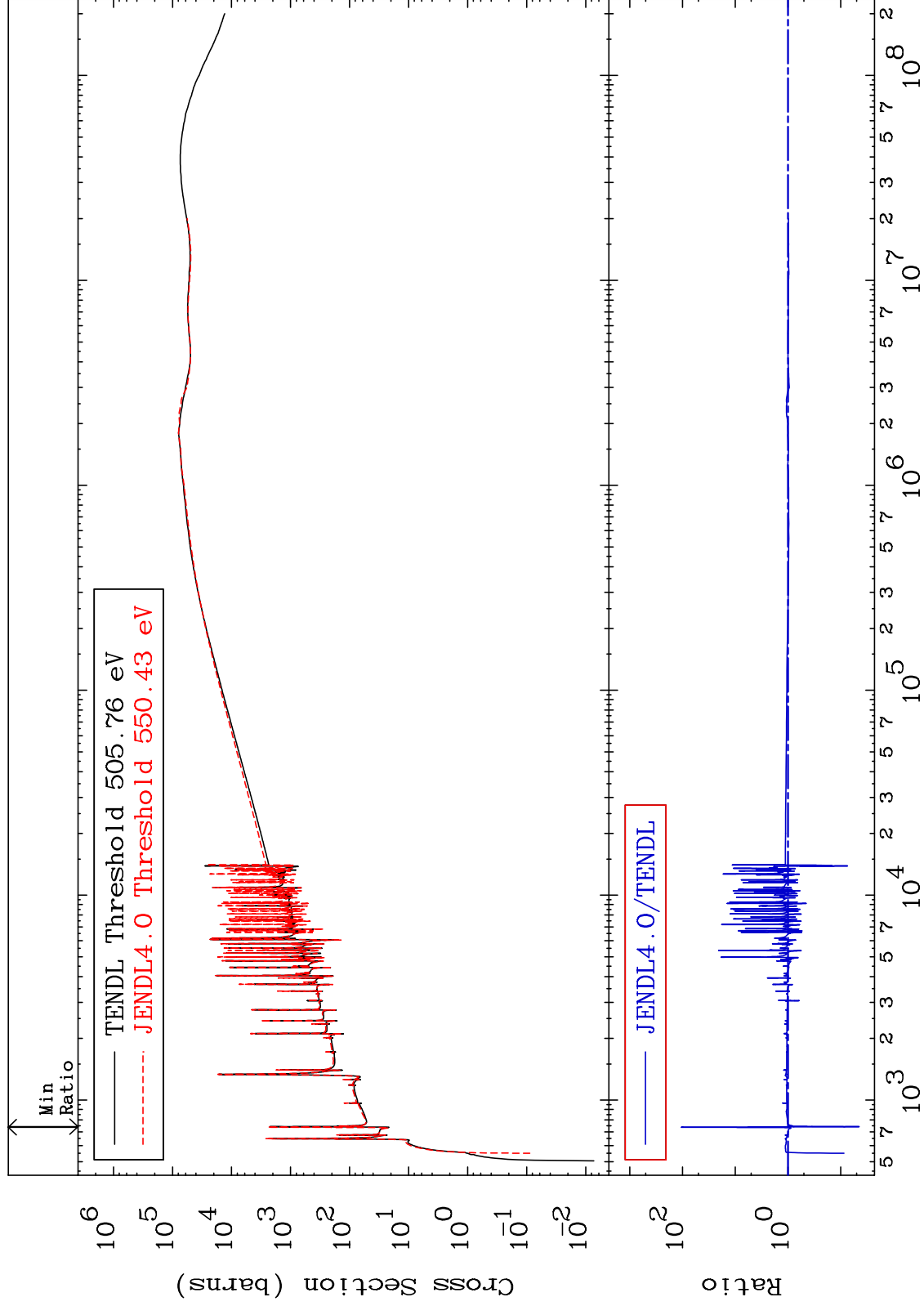
38-Sr-87
-92.04 To 9999. %



MAT 3834

Dpa elastic (mt2)
Cross Section

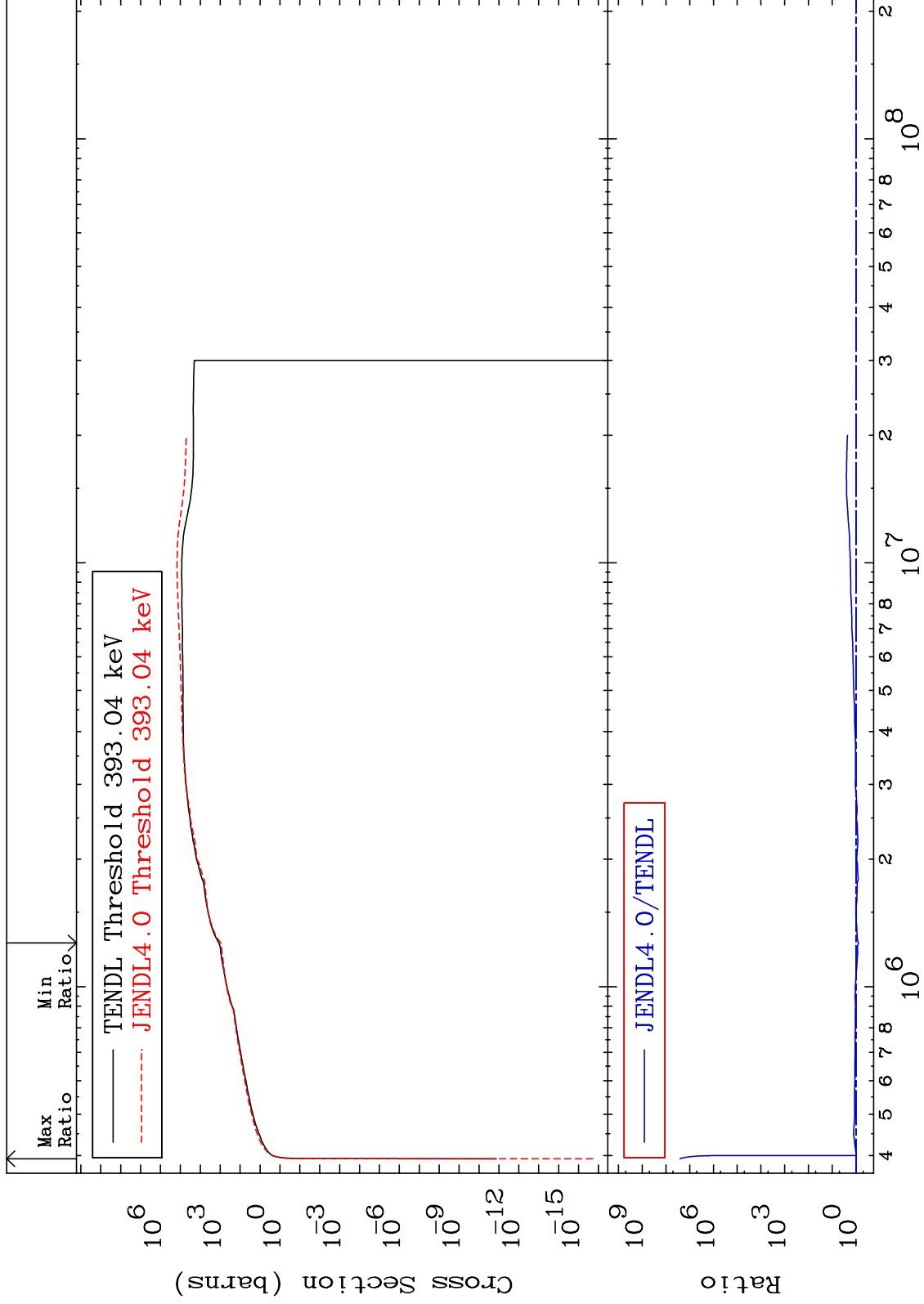
38-Sr-87
-95.54 To 9999. %



MAT 3834

Dpa inelastic (mt51-91)
Cross Section

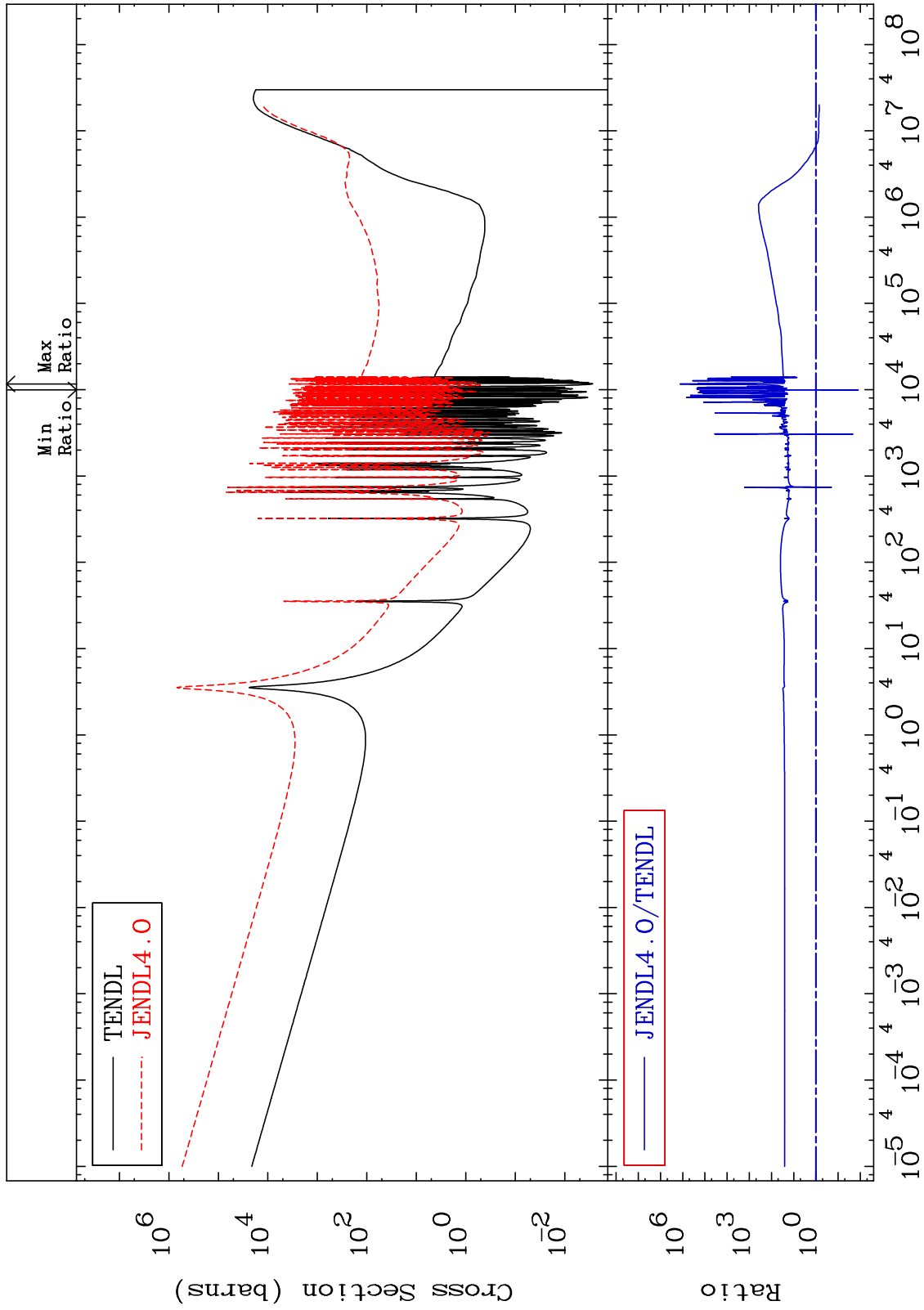
38-Sr-87
-21.17 To 9999. %



MAT 3834

Dpa disappearance (mt102 -120)
Cross Section

38-Sr-87
-98.78 To 9999. %



53

Incident Energy (eV)

38-Sr-87

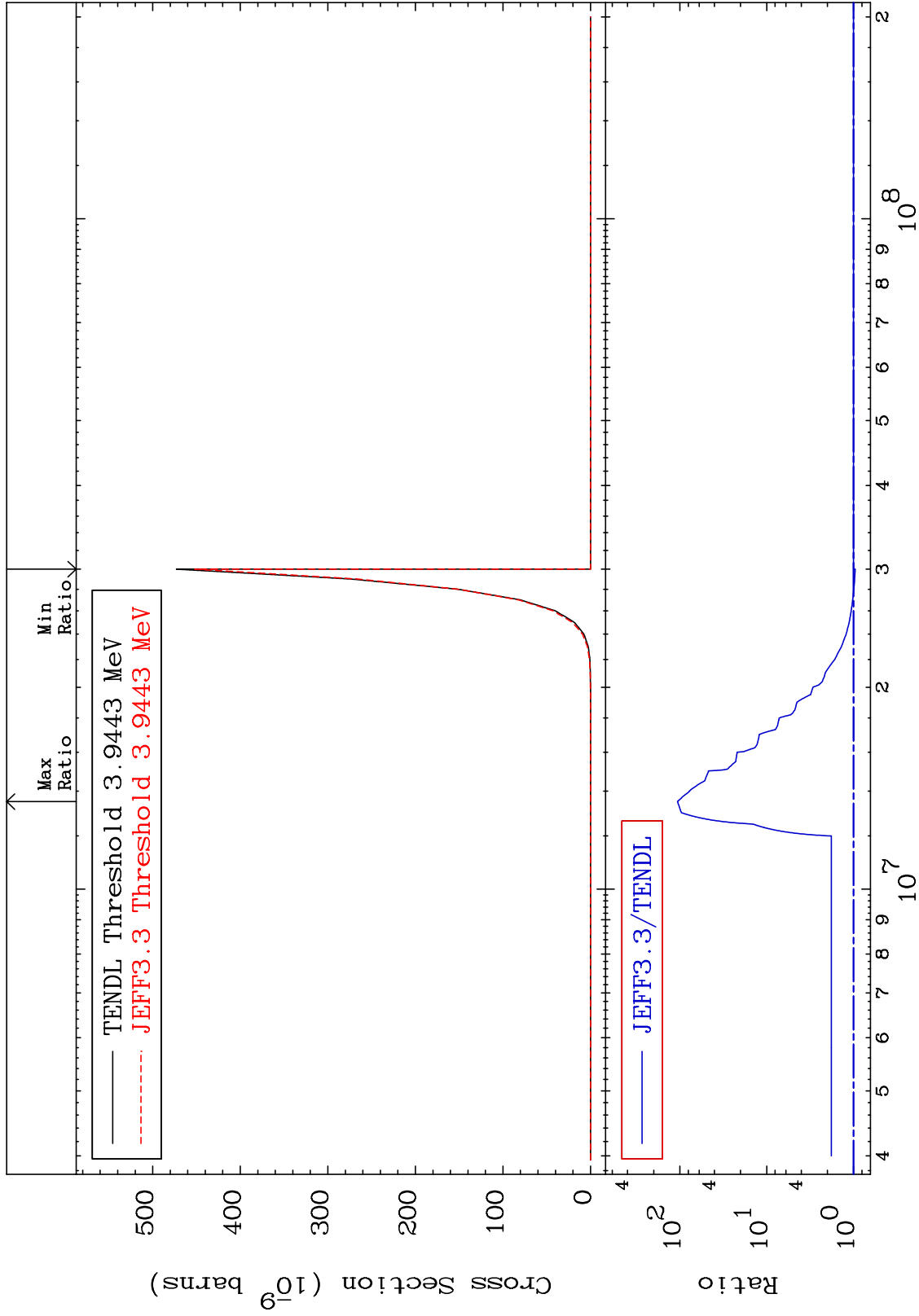
MAT 3834

(n, 2α)

38-Sr-87

Cross Section

-4.438 To 9999. %



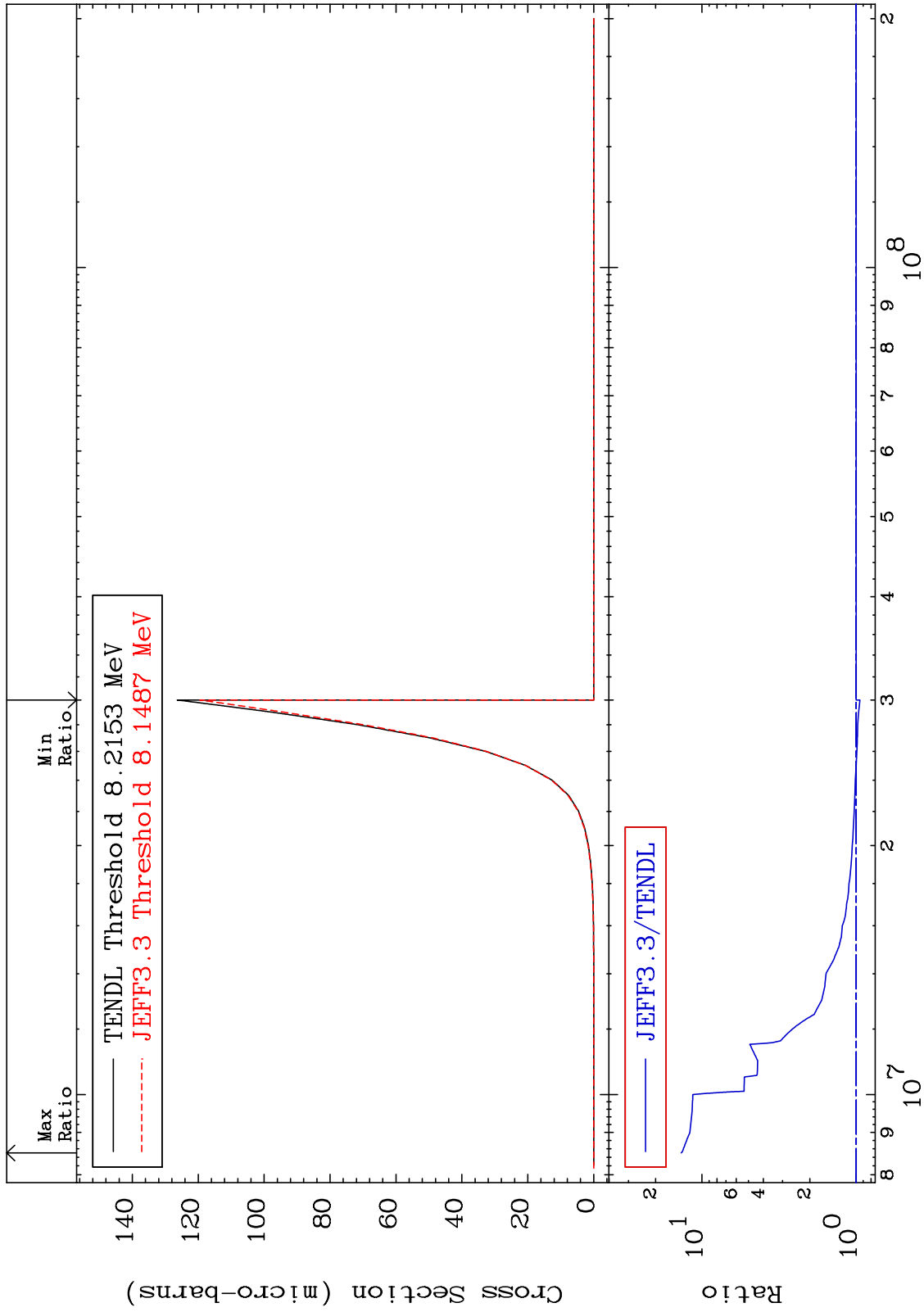
MAT 3834

(n,2p)

38-Sr-87

Cross Section

-5.452 To 1263. %



55

Incident Energy (eV)

38-Sr-87

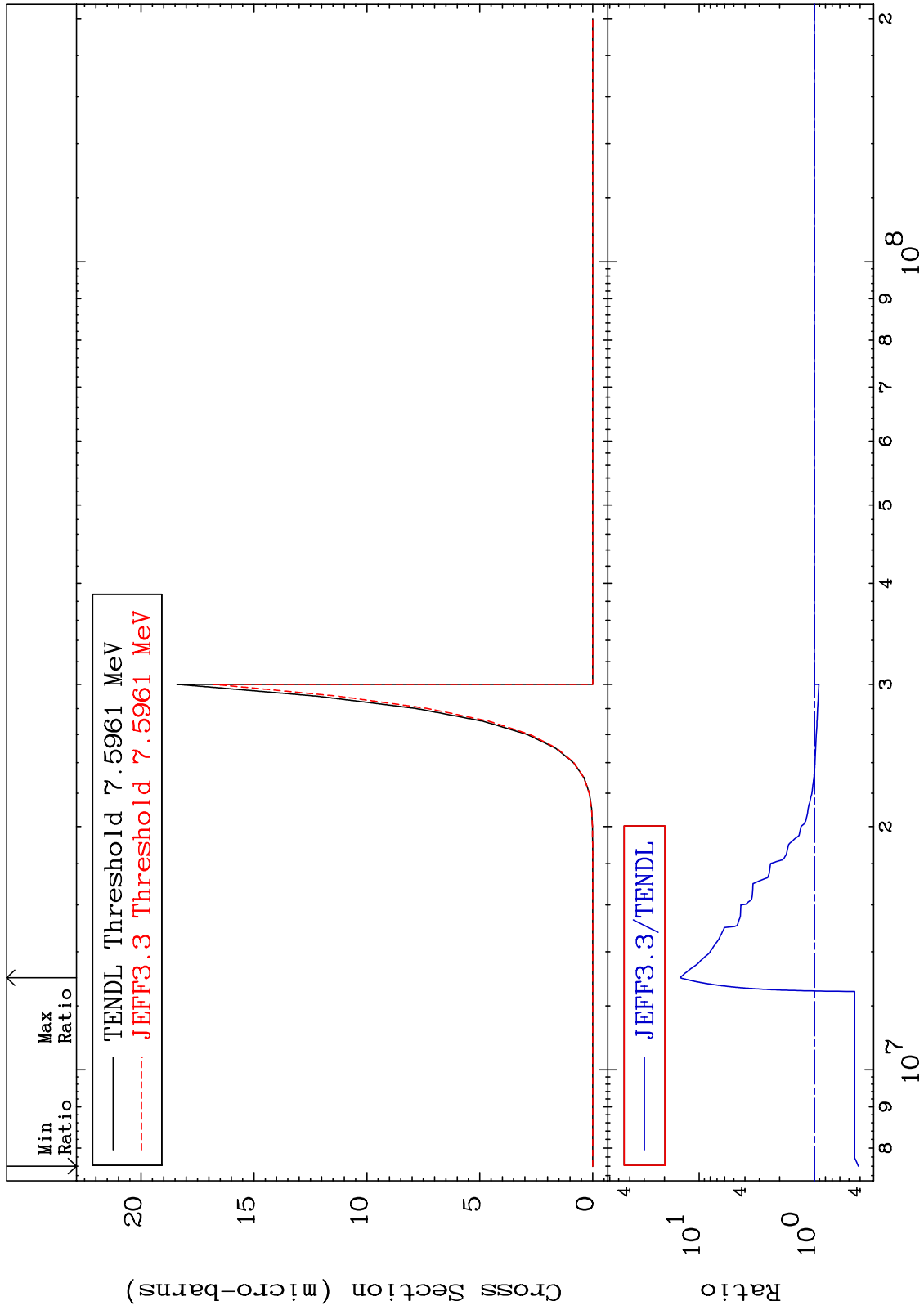
MAT 3834

(n,p) α

38-Sr-87

Cross Section

-58.64 To 1367. %



56

Incident Energy (eV)

38-Sr-87

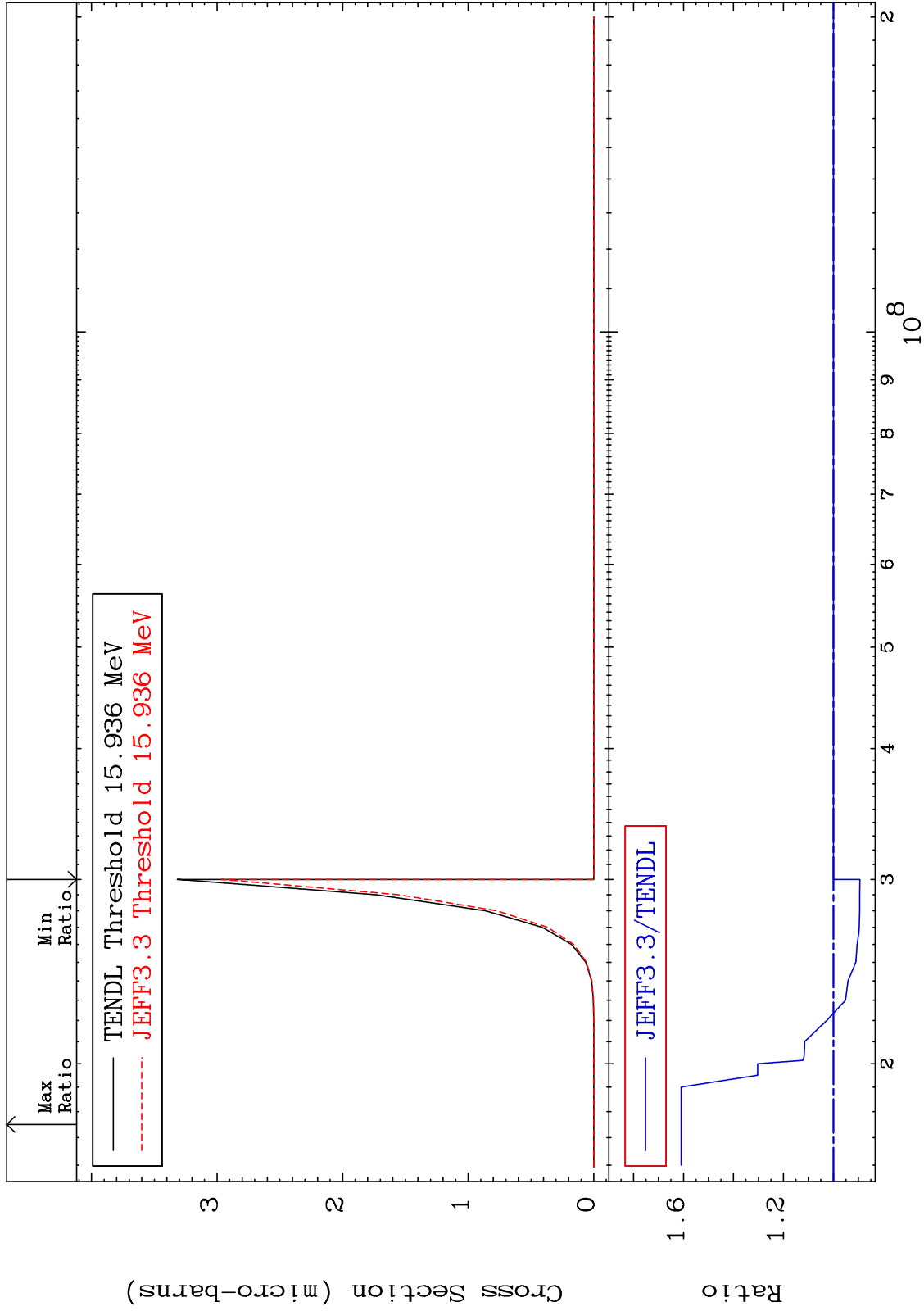
MAT 3834

(n,p) d

38-Sr-87

Cross Section

-10.63 To 60.90 %



57

Incident Energy (eV)

38-Sr-87

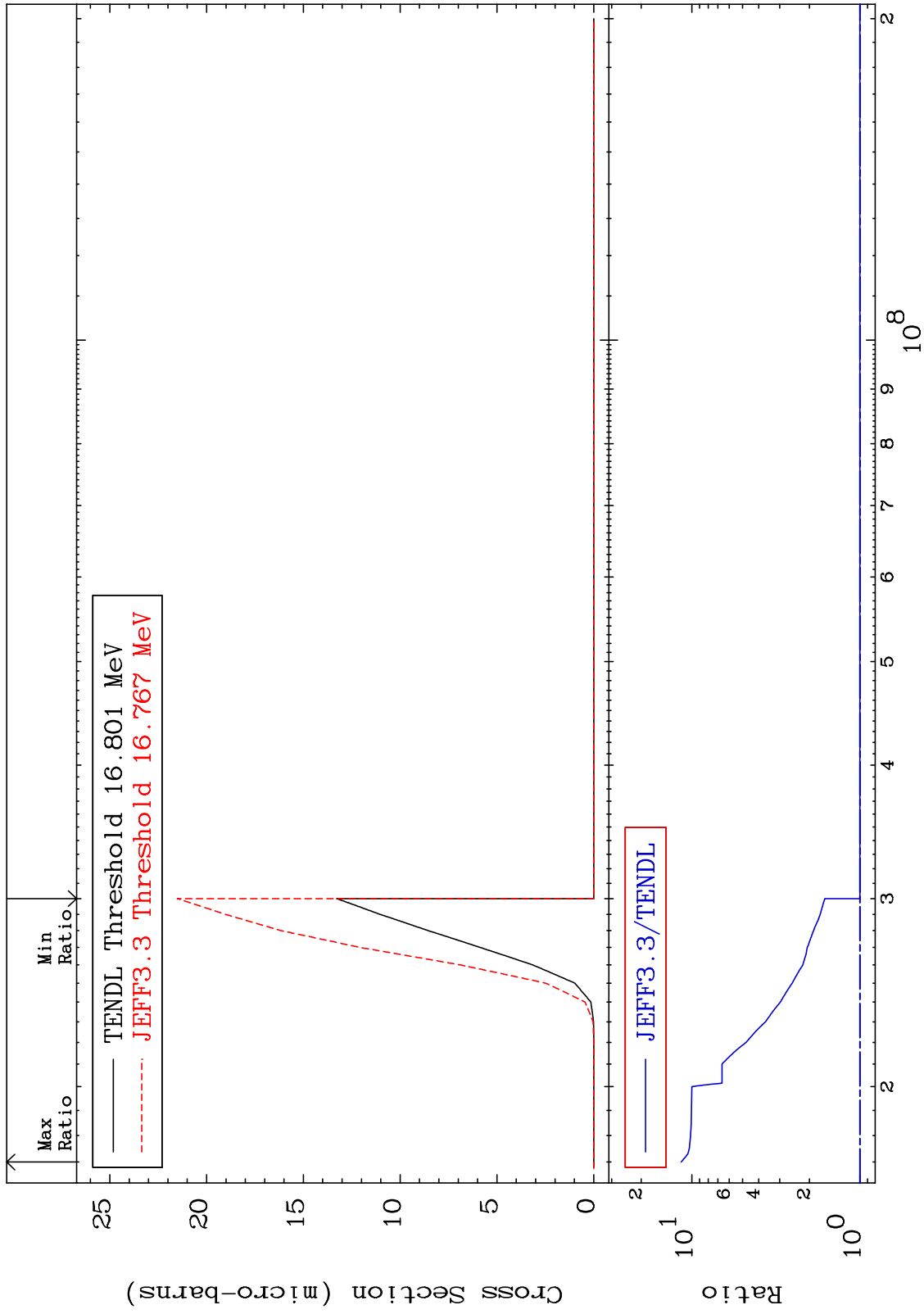
MAT 3834

(n,p) t

38-Sr-87

Cross Section

0.000 To 1057. %



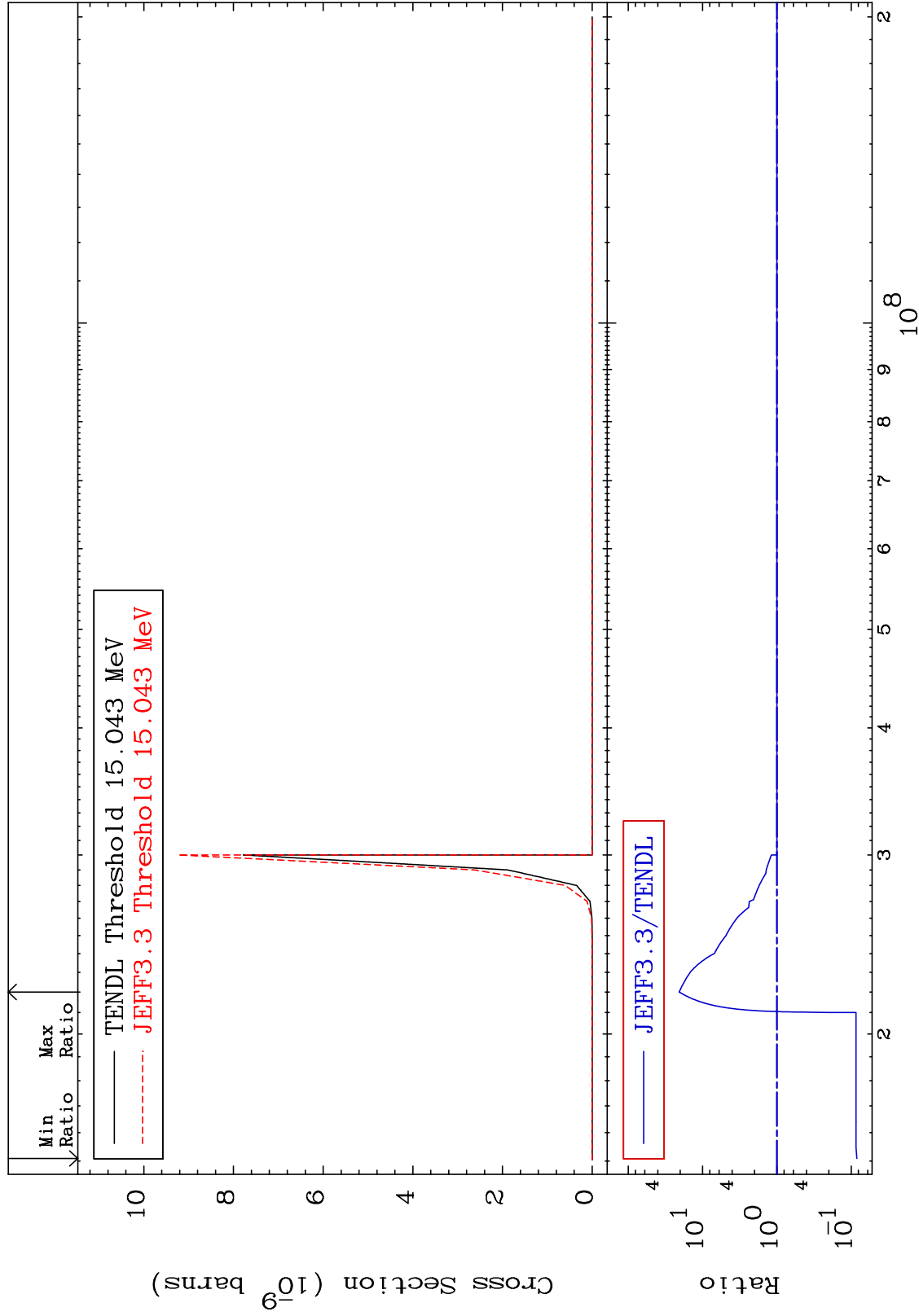
MAT 3834

(n,d) α

38-Sr-87

Cross Section

-91.60 To 1963. %



59

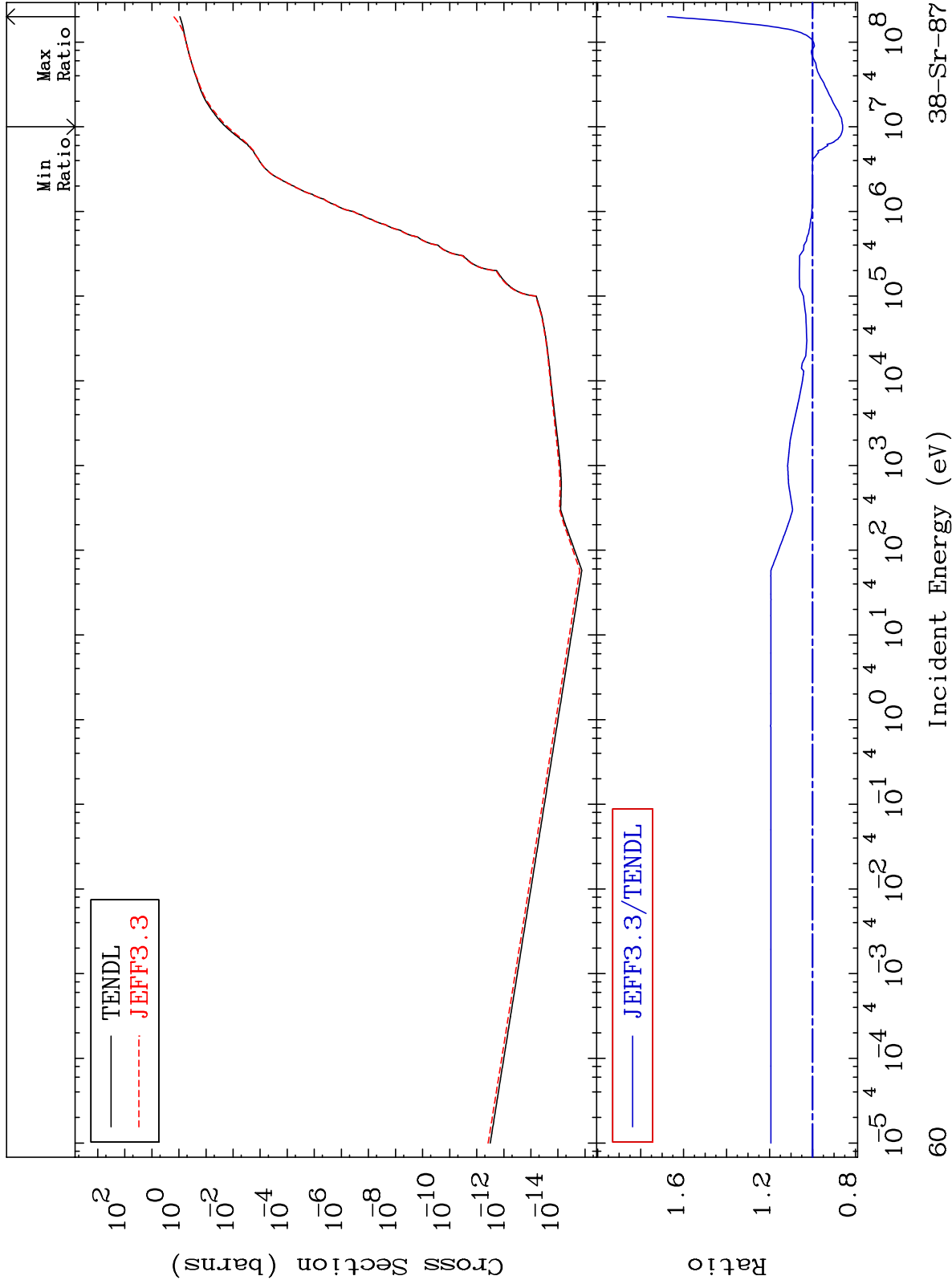
Incident Energy (eV)

38-Sr-87

MAT 3834

Hydrogen Production
Cross Section

38-Sr-87
-14.02 To 67.48 %



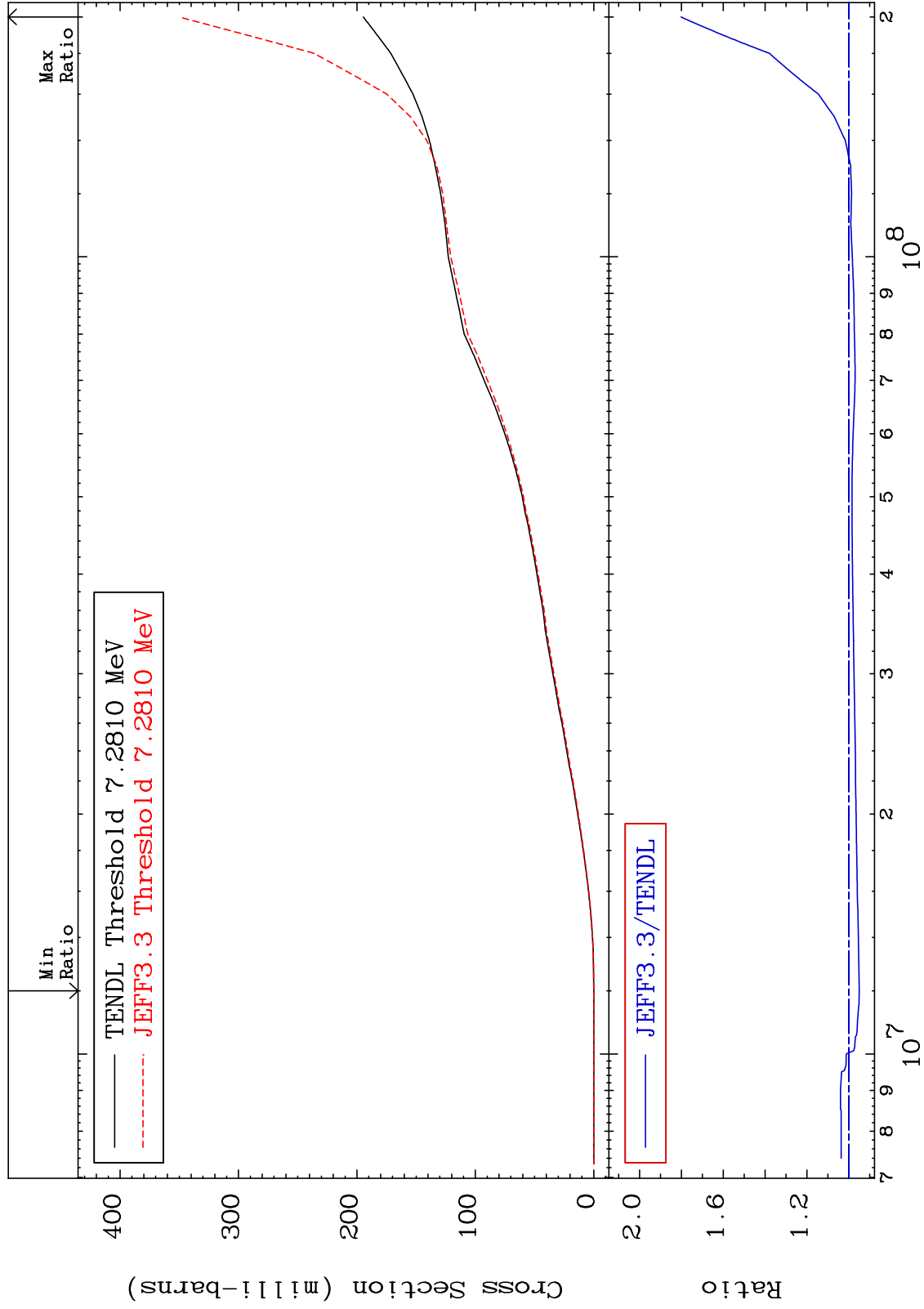
38-Sr-87

60

MAT 3834

Deuterium Production
Cross Section

38-Sr-87
-5.059 To 80.15 %



61

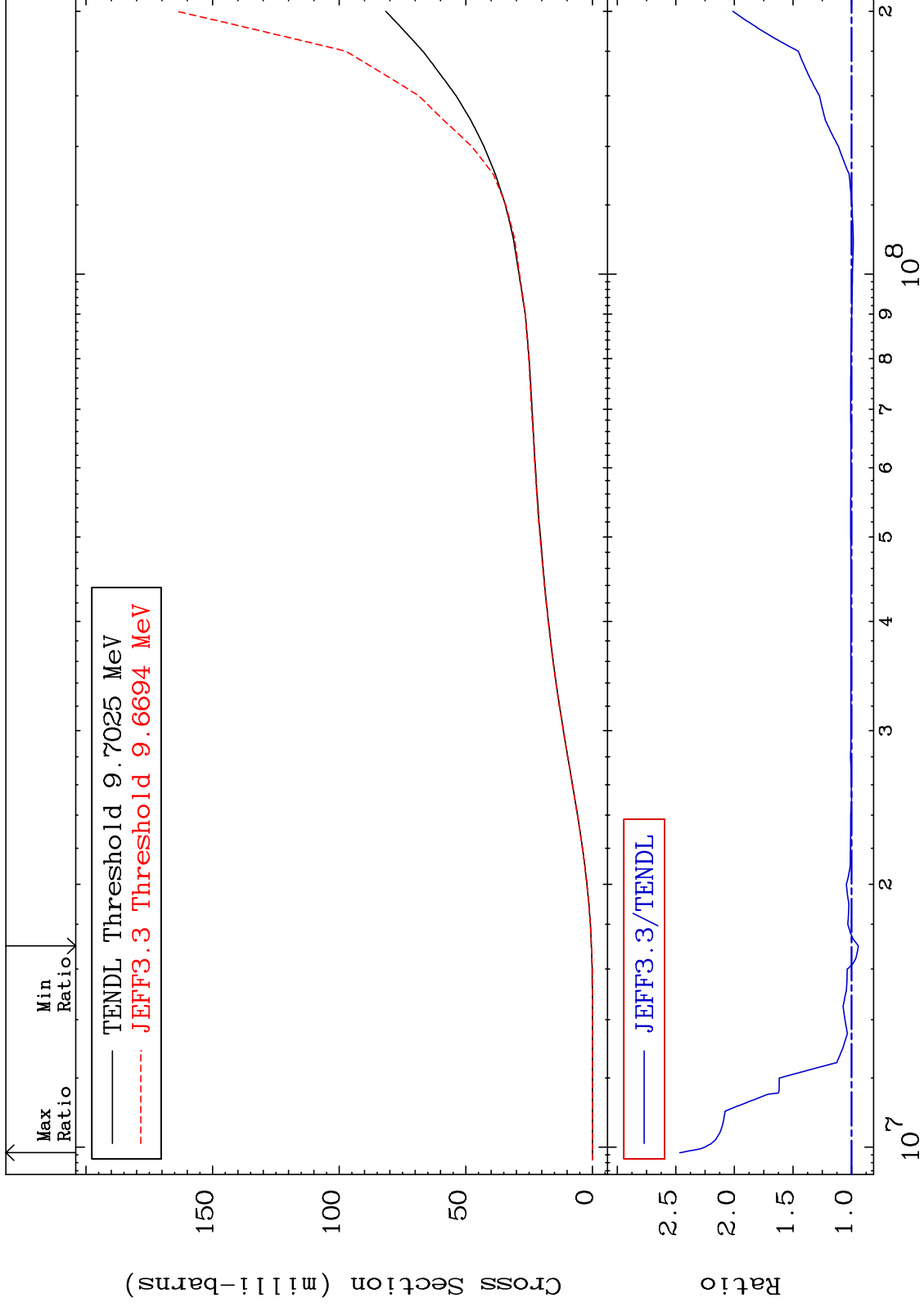
Incident Energy (eV)

38-Sr-87

MAT 3834

Tritium Production
Cross Section

³⁸Sr-87
-5.781 To 146.6 %



62

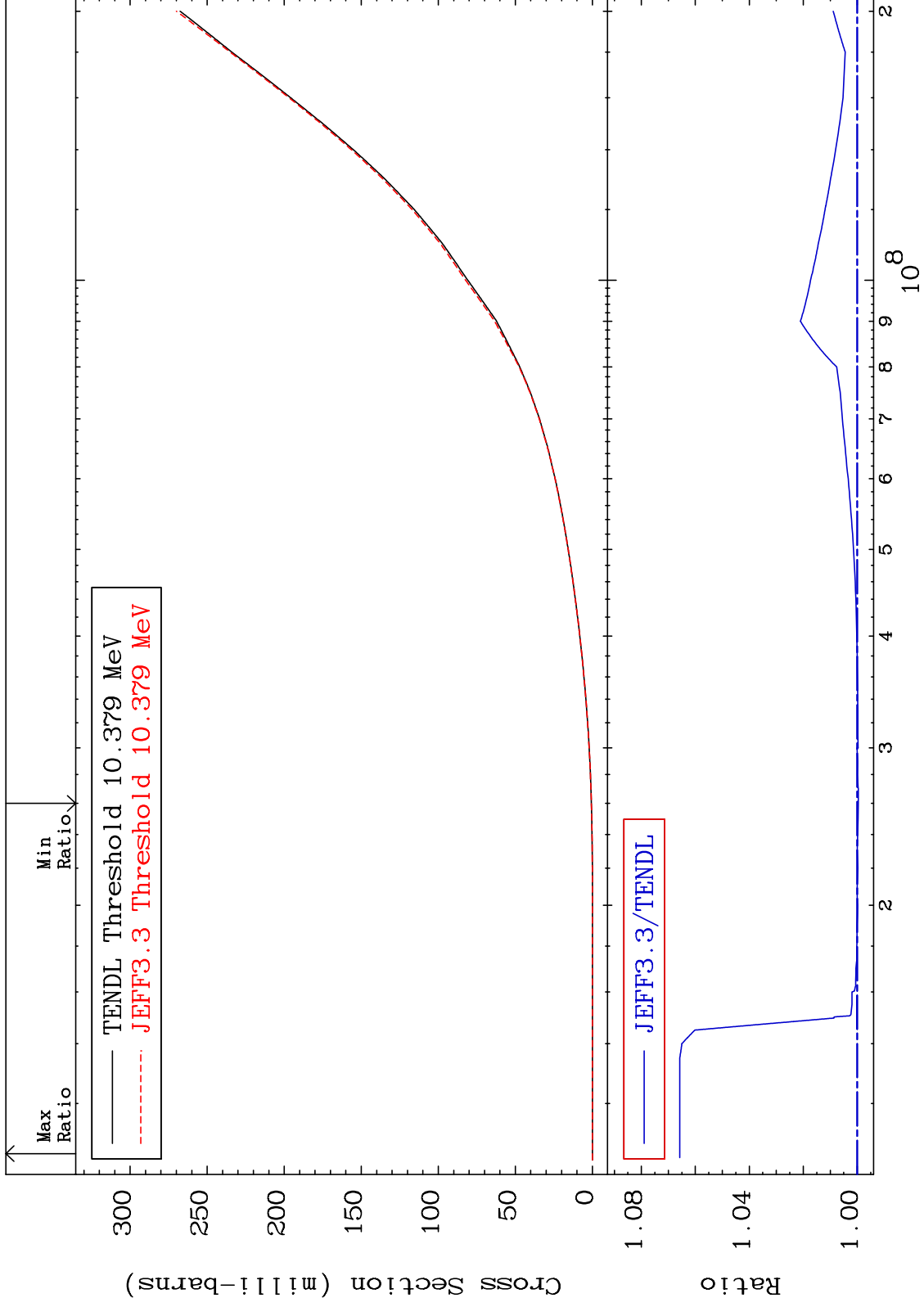
Incident Energy (eV)

³⁸Sr-87

MAT 3834

He-3 Production
Cross Section

38-Sr-87
-0.041 To 6.575 %



63

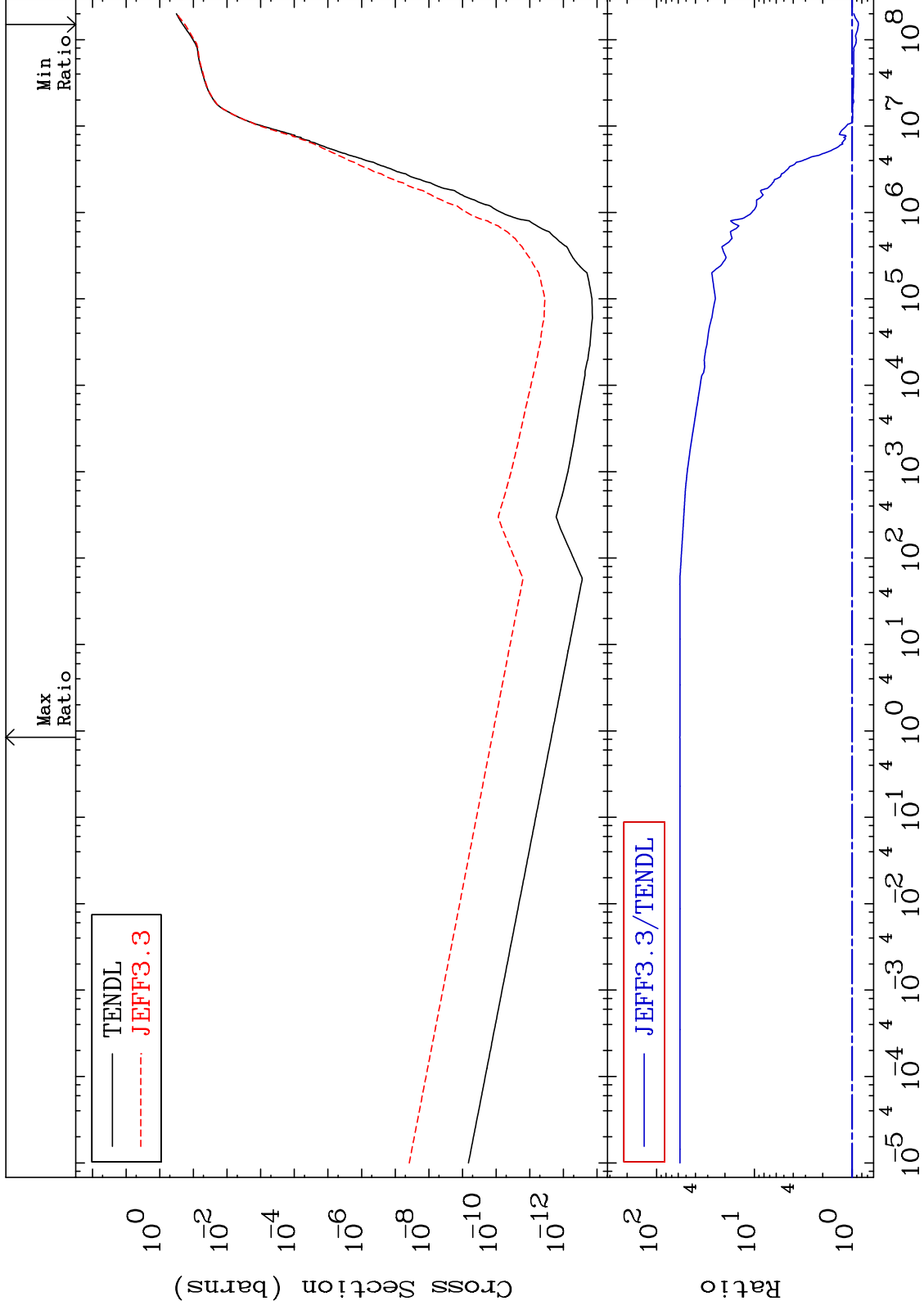
Incident Energy (eV)

38-Sr-87

MAT 3834

He-4 Production
Cross Section

38-Sr-87
-13.40 To 5691. %



64

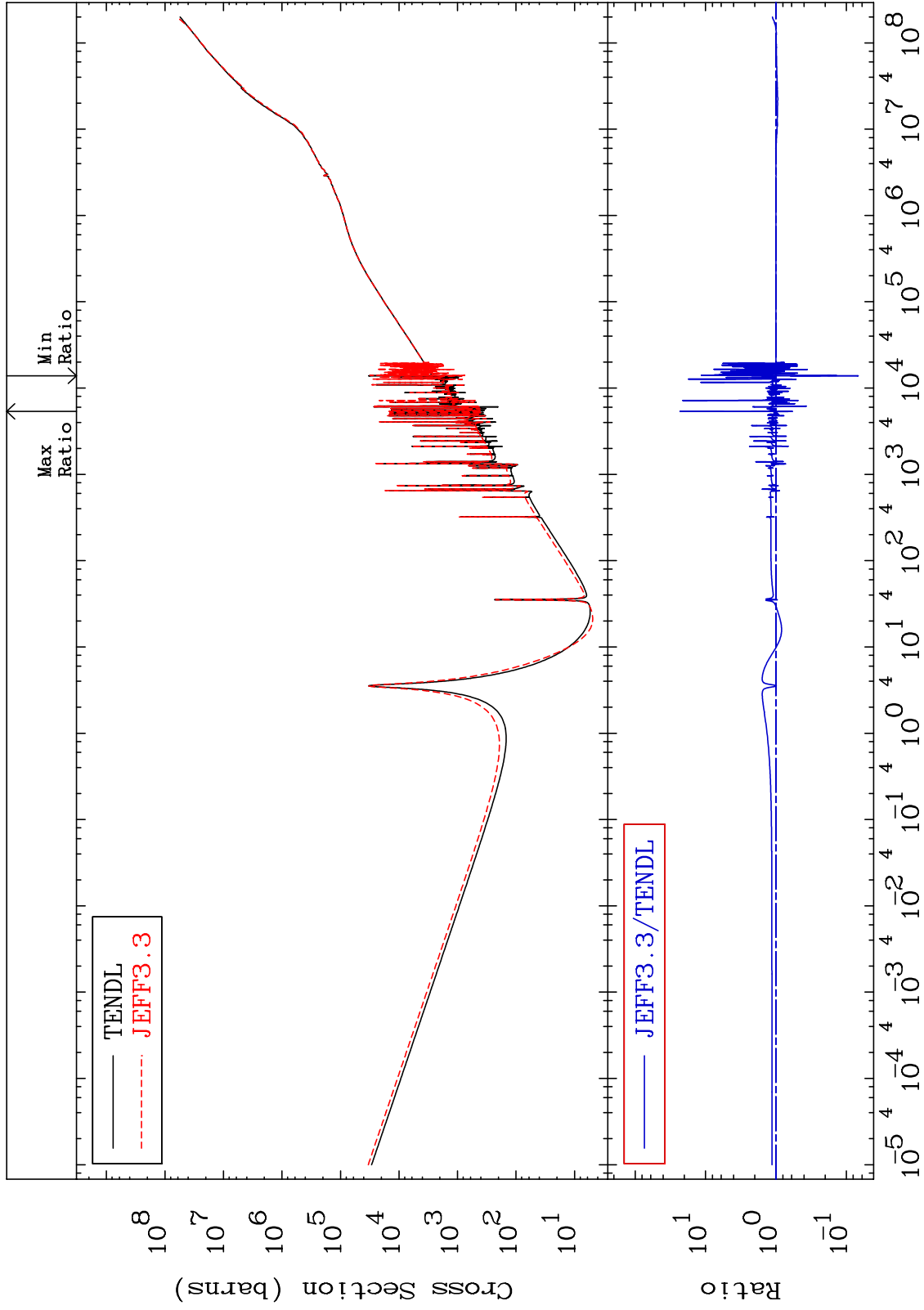
Incident Energy (eV)

38-Sr-87

MAT 3834

Kerma total (eV-barns)
Cross Section

38-Sr-87
-93.25 To 2205. %



65

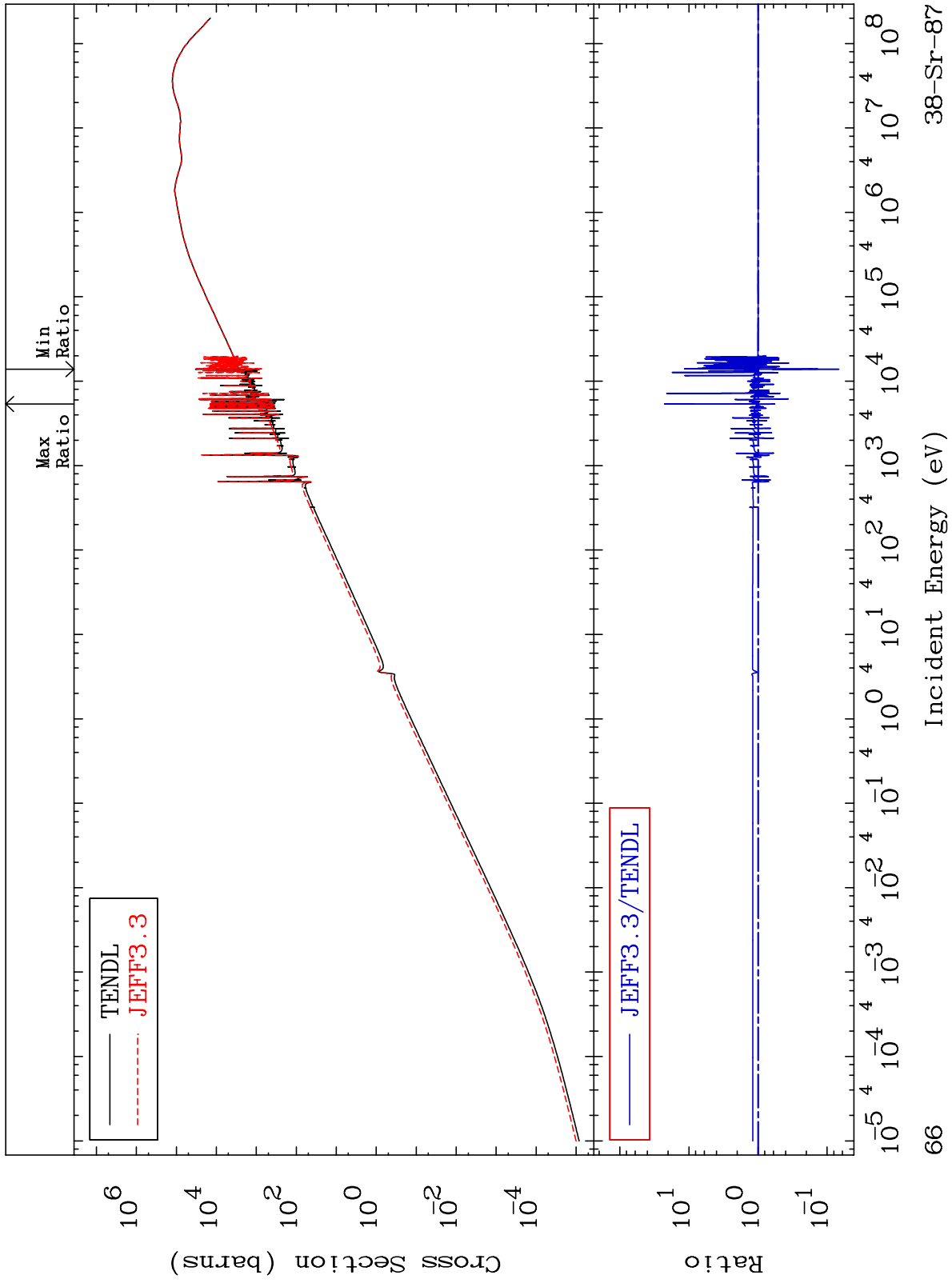
Incident Energy (eV)

38-Sr-87

MAT 3834

Kerma elastic
Cross Section

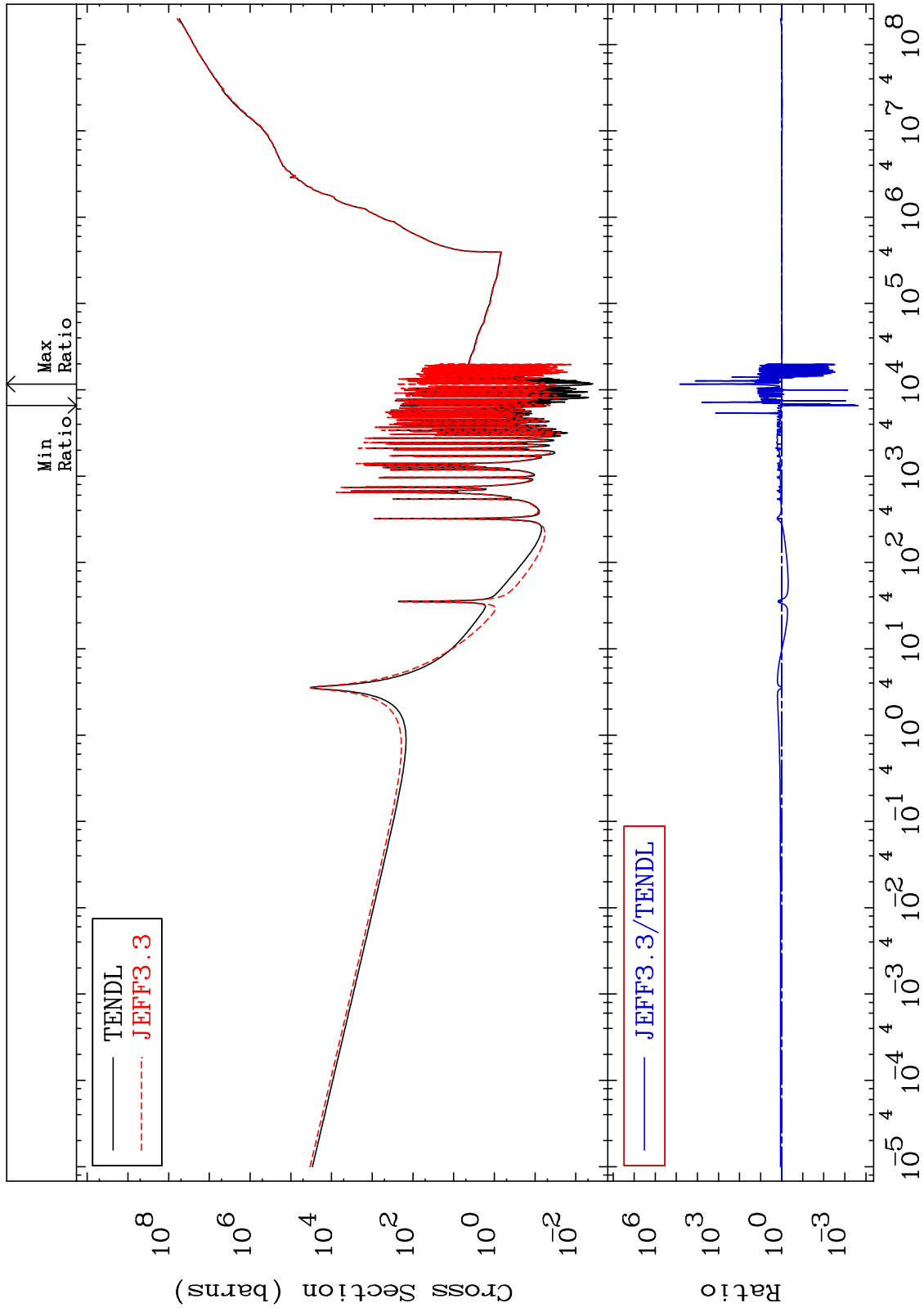
38-Sr-87
-93.27 To 2159. %



MAT 3834

Kerma non-elastic (all but mt2)
Cross Section

38-Sr-87
-99.98 To 9999. %



67

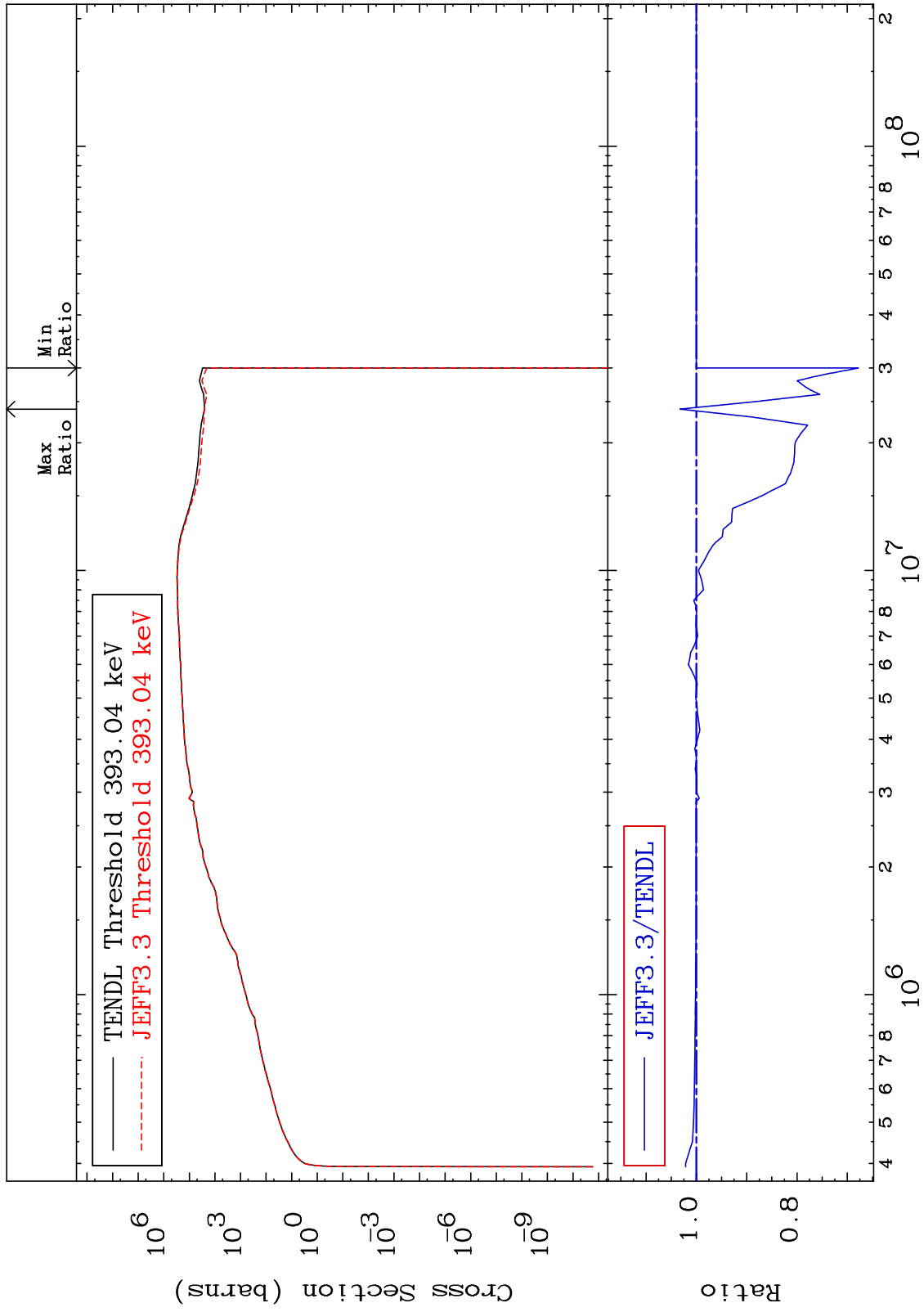
Incident Energy (eV)

38-Sr-87

MAT 3834

Kerma inelastic (mt51-91)
Cross Section

38-Sr-87
-32.21 To 3.249 %



68

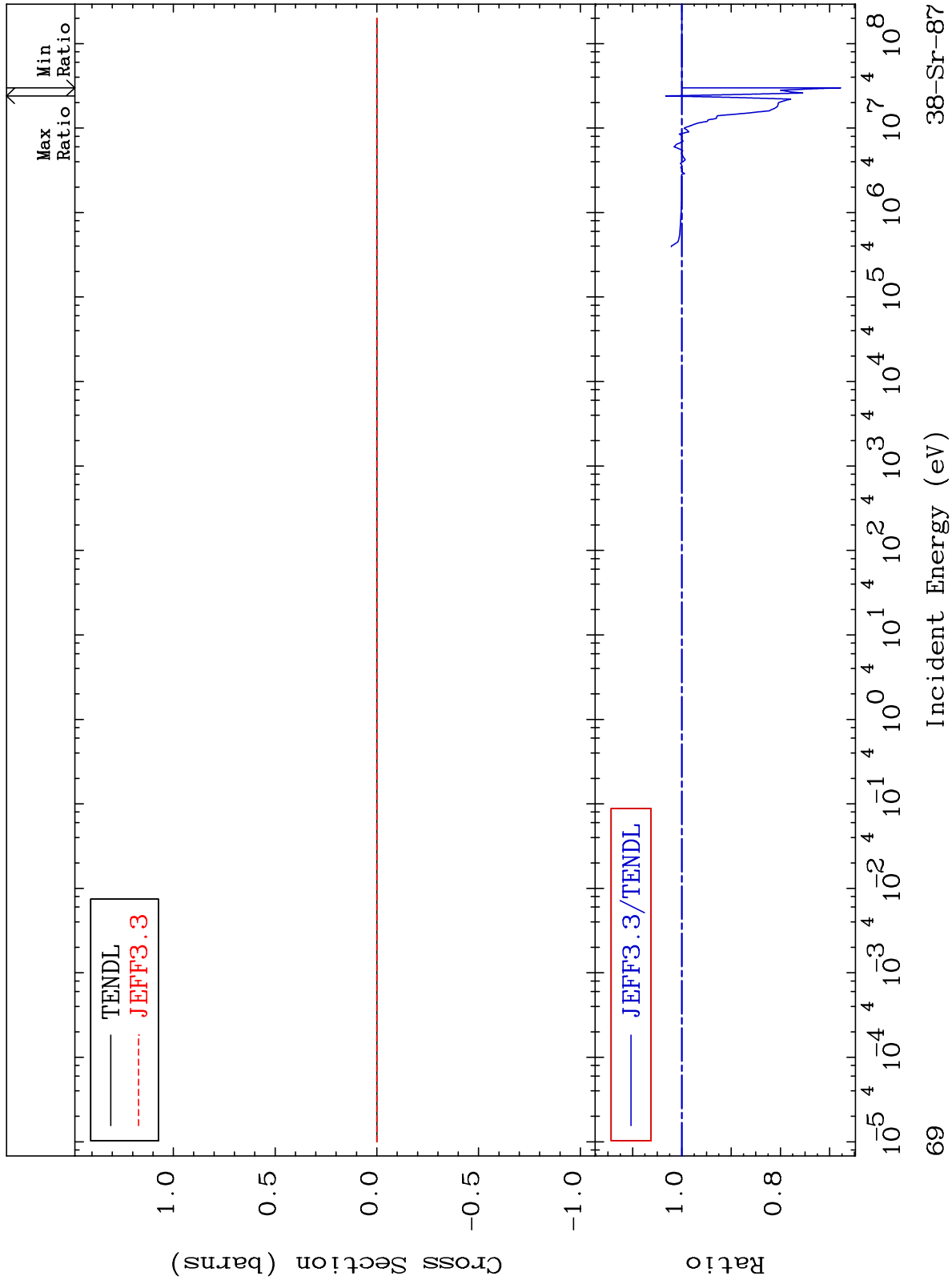
Incident Energy (eV)

38-Sr-87

MAT 3834

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

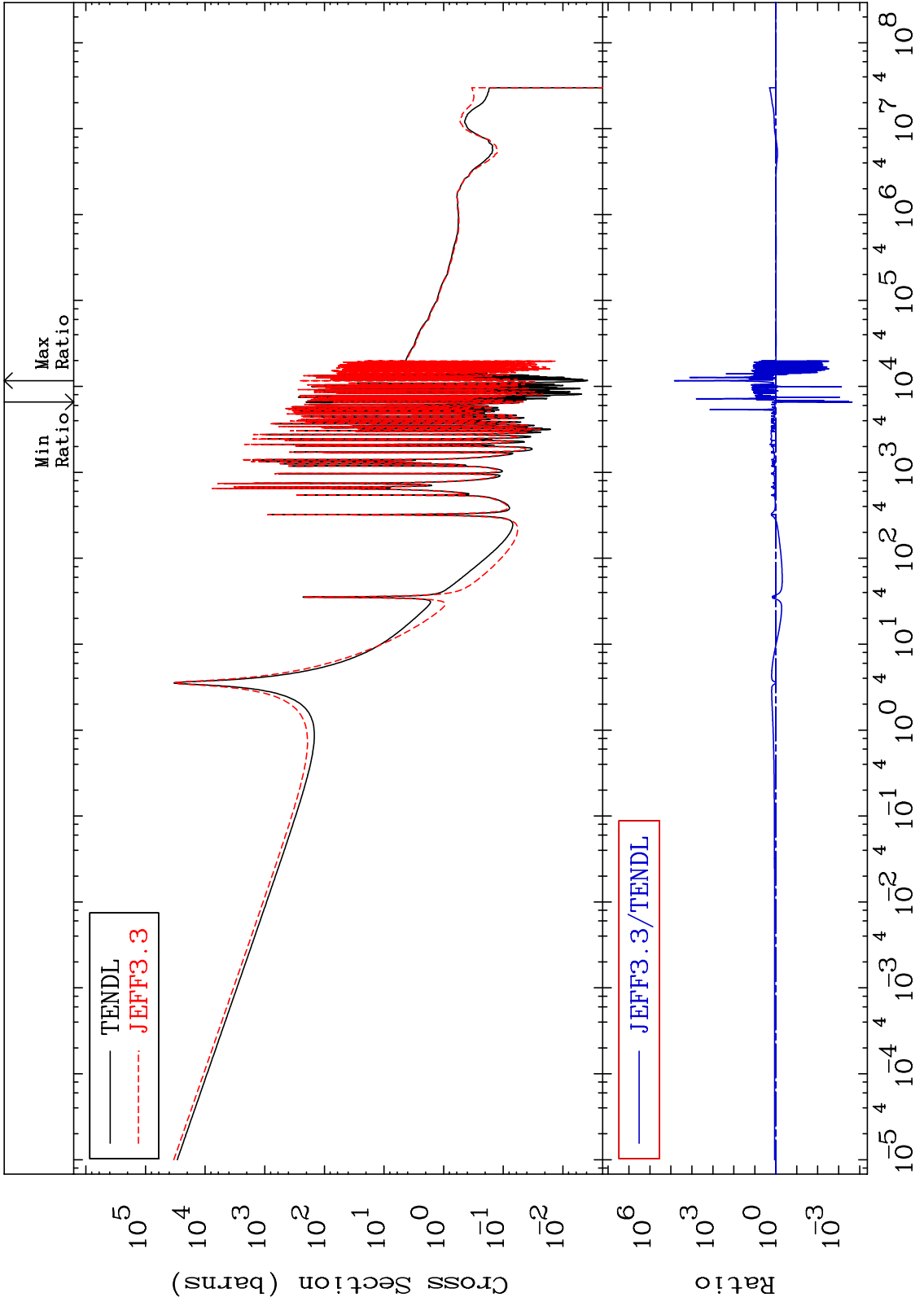
38-Sr-87
-32.21 To 3.249 %



MAT 3834

Kerma capture (mt102)
Cross Section

38-Sr-87
-99.98 To 9999. %



70

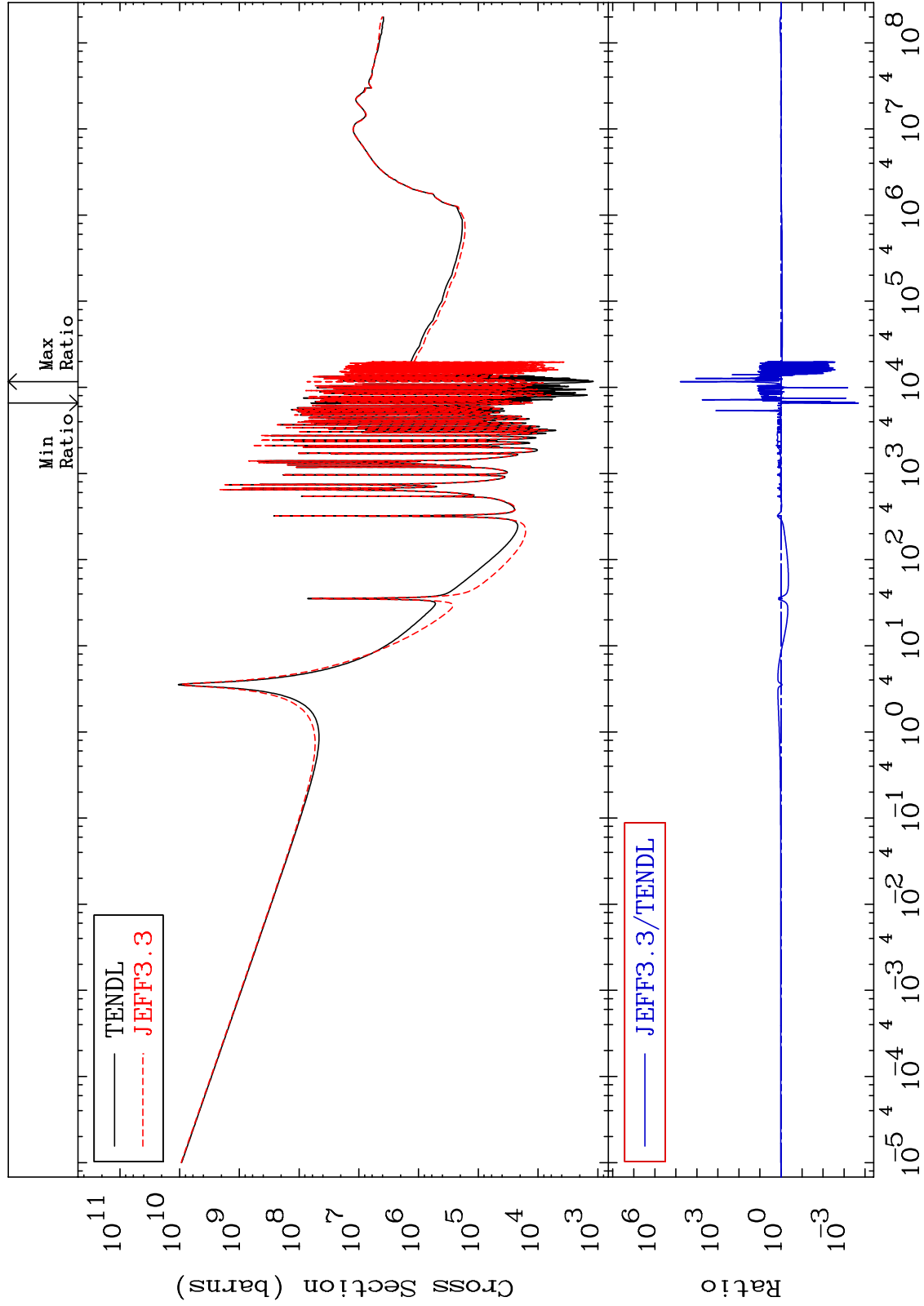
Incident Energy (eV)

38-Sr-87

MAT 3834

Total photon (eV-barns)
Cross Section

38-Sr-87
-99.98 To 9999. %



71

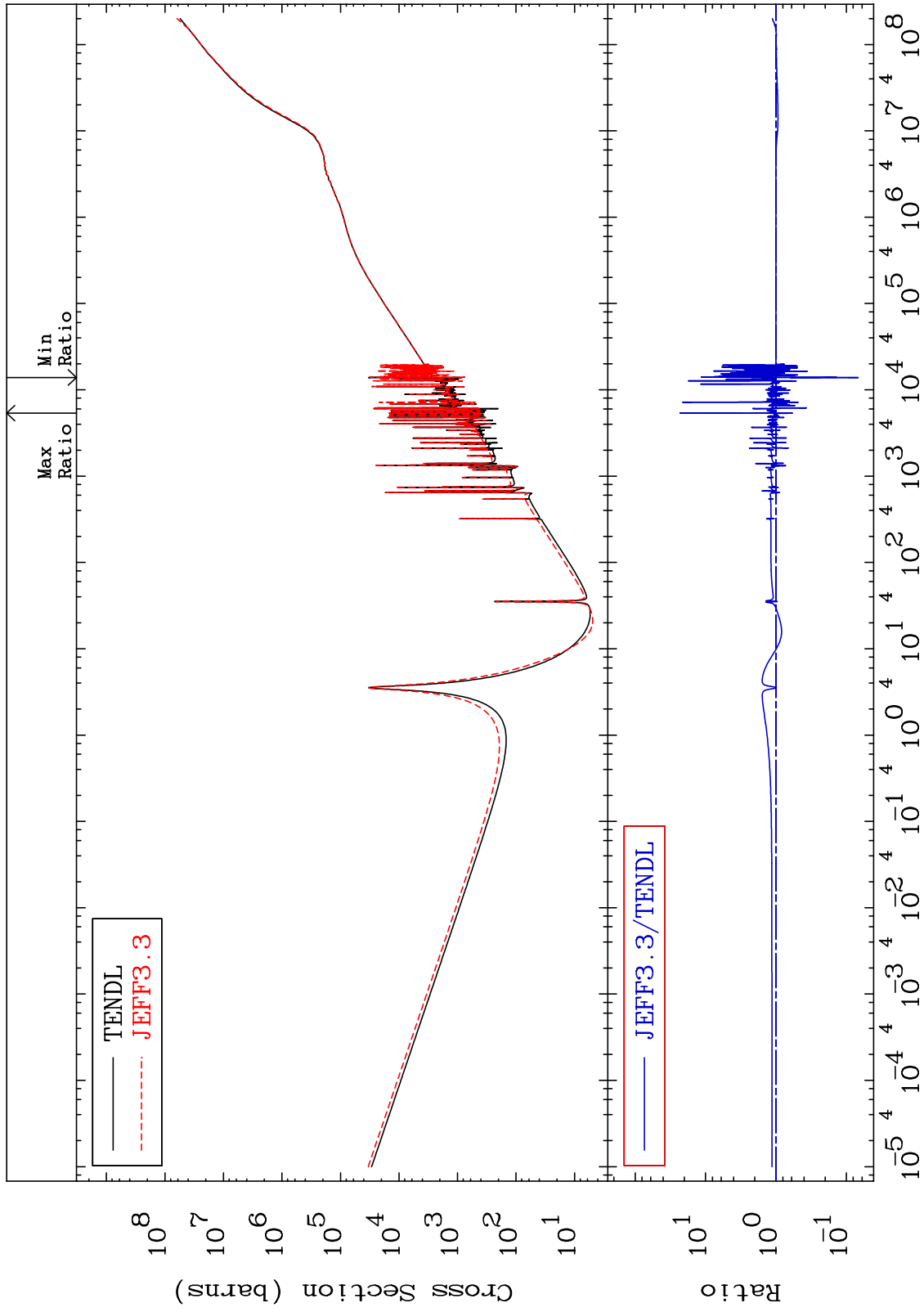
Incident Energy (eV)

38-Sr-87

MAT 3834

Total kinematic kerma (high limit)
Cross Section

38-Sr-87
-93.25 To 2205. %



72

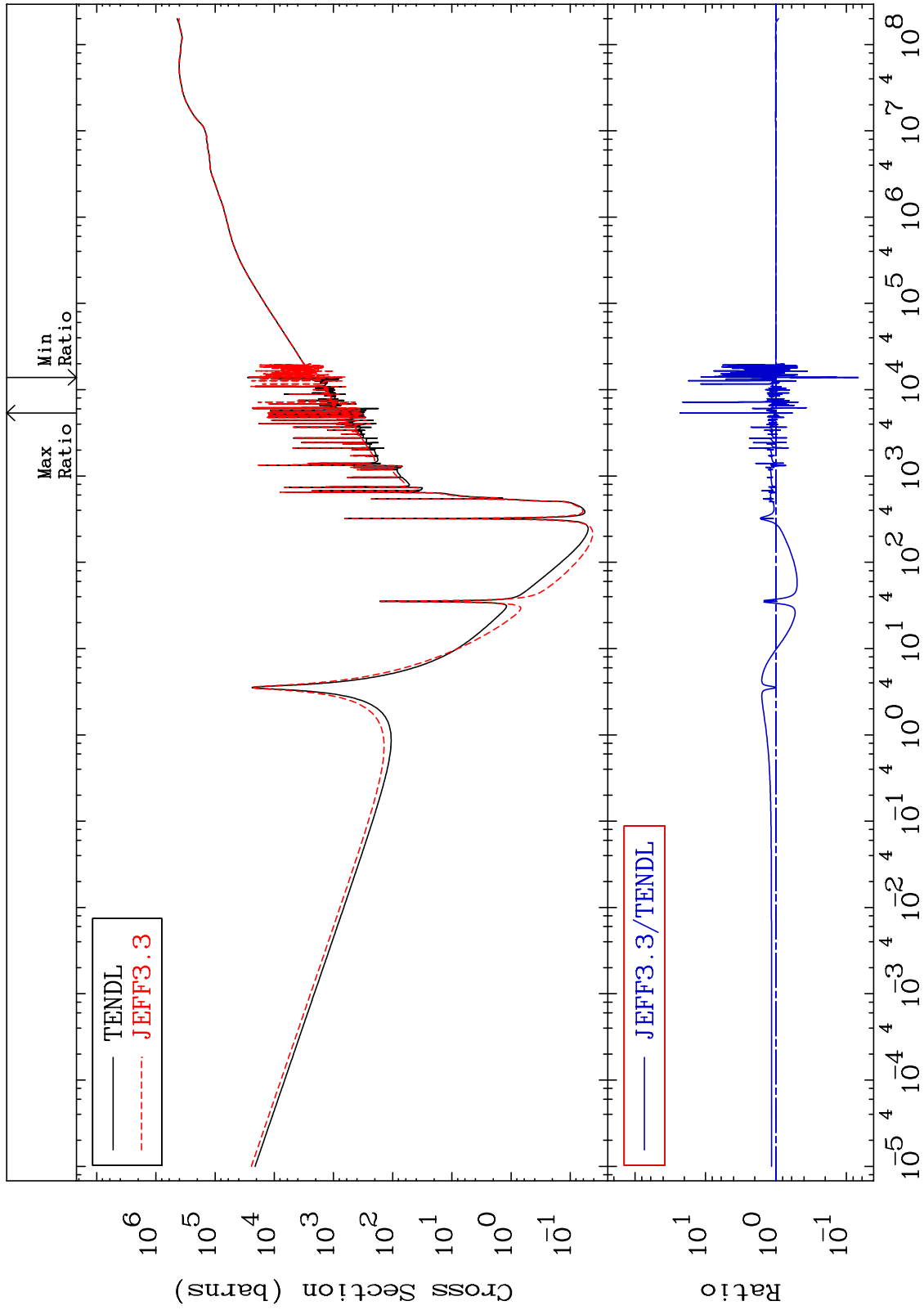
Incident Energy (eV)

38-Sr-87

MAT 3834

Dpa total (eV-barns)
Cross Section

38-Sr-87
-93.25 To 2198. %



73

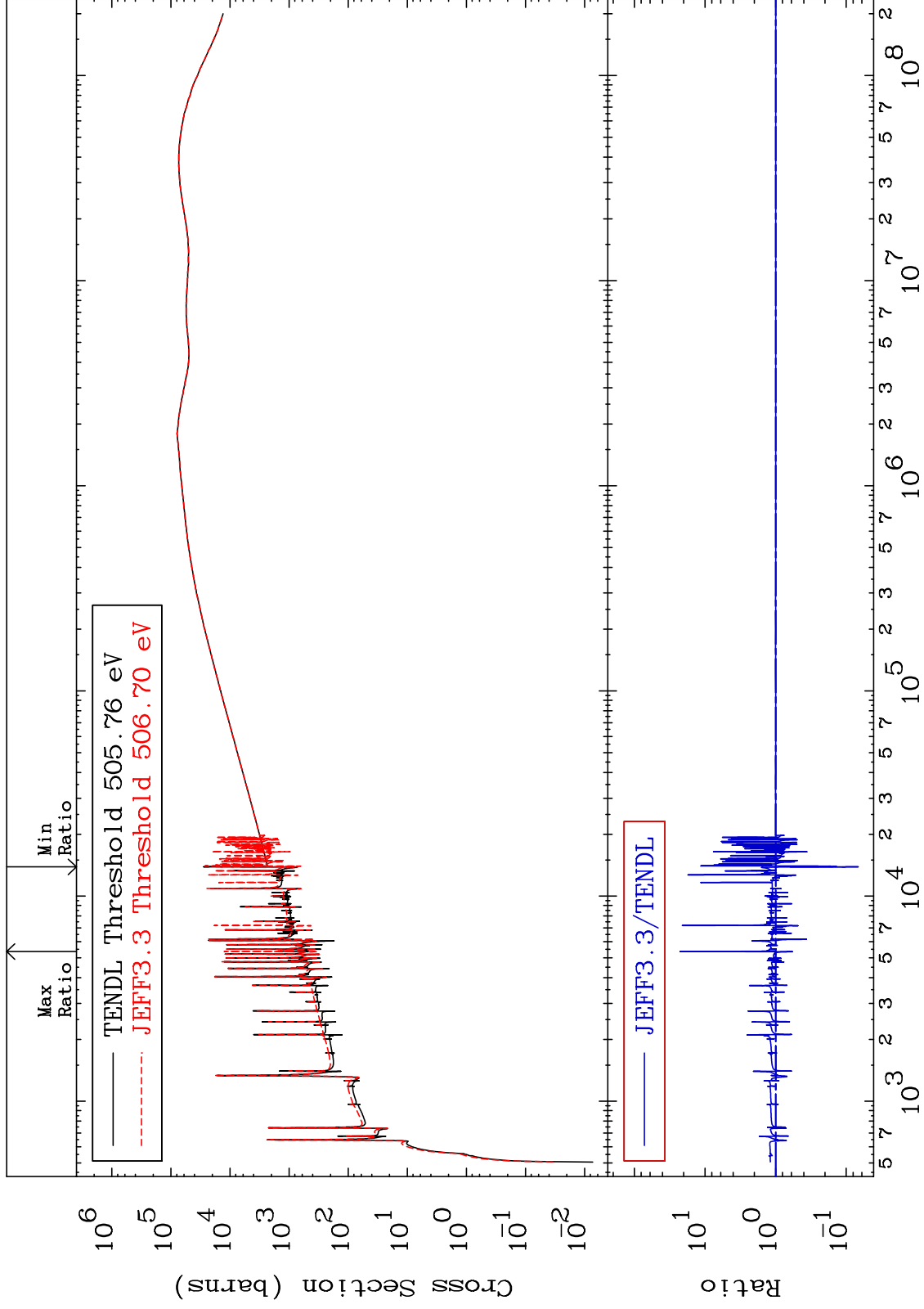
Incident Energy (eV)

38-Sr-87

MAT 3834

Dpa elastic (mt2)
Cross Section

38-Sr-87
-93.27 To 2159. %



74

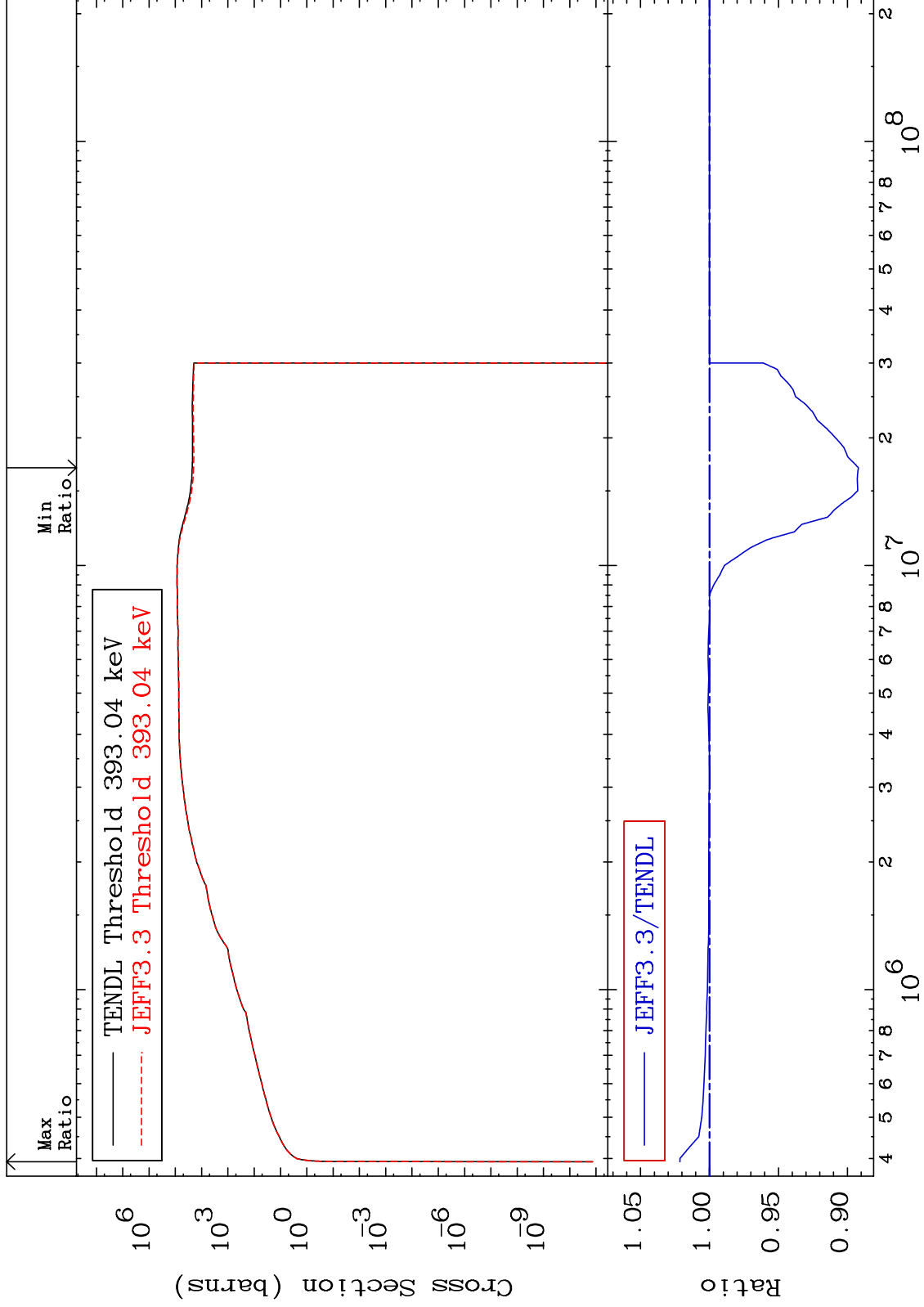
Incident Energy (eV)

38-Sr-87

MAT 3834

Dpa inelastic (mt51-91)
Cross Section

38-Sr-87
-10.80 To 2.139 %



75

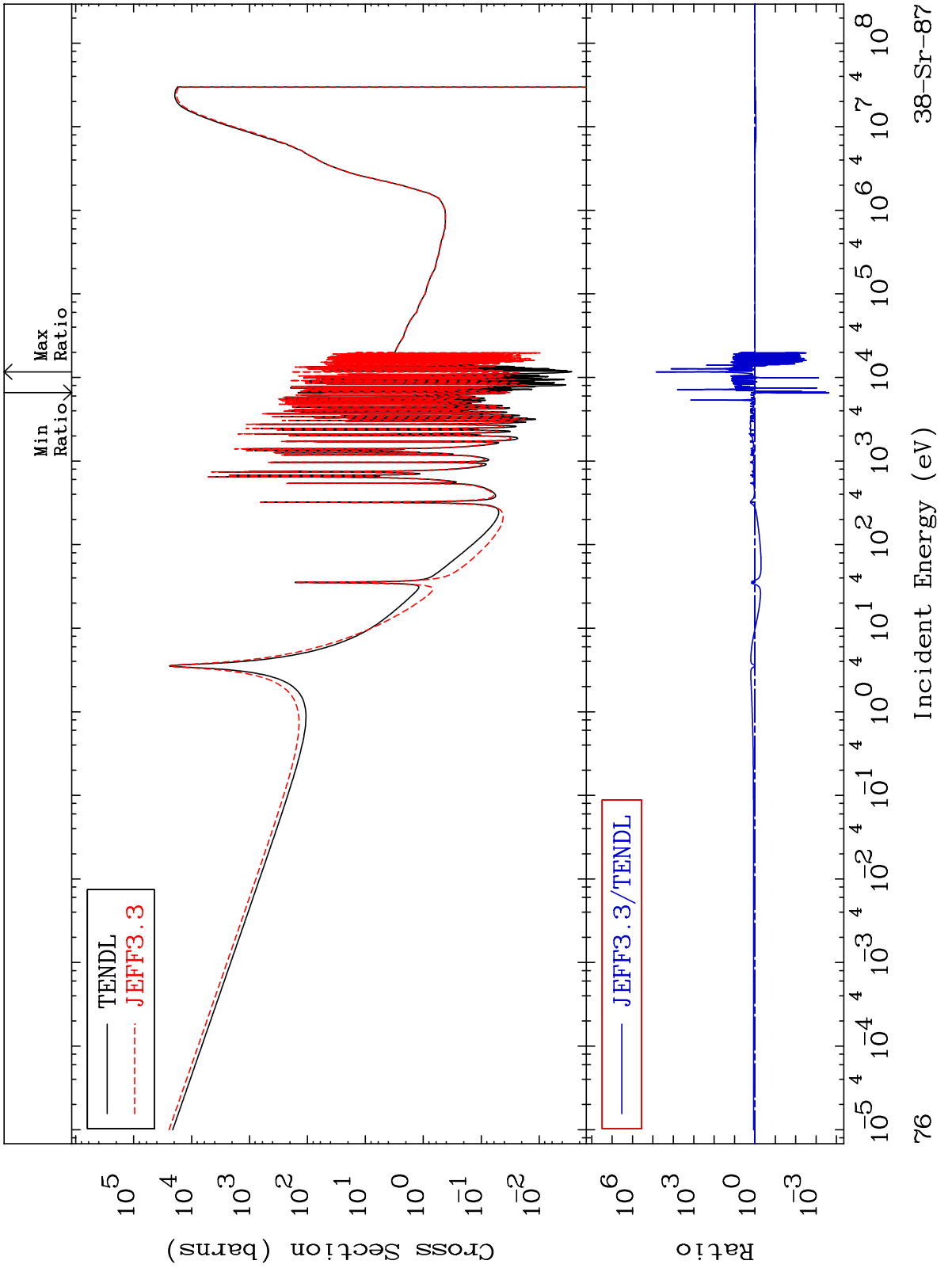
38-Sr-87

38-Sr-87

MAT 3834

Dpa disappearance (mt102 -120)
Cross Section

38-Sr-87
-99.98 To 9999. %



76

Incident Energy (eV)

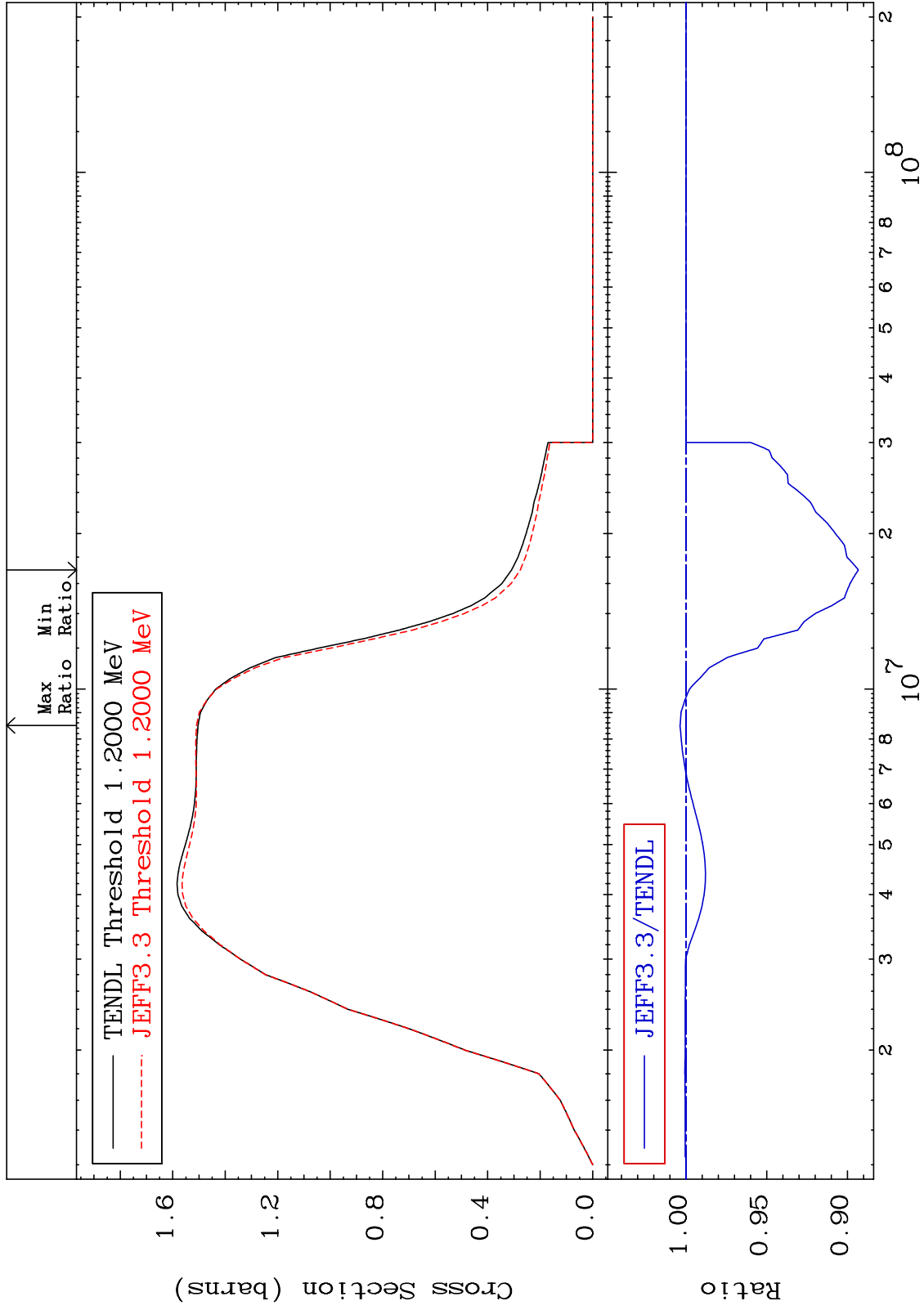
38-Sr-87

MAT 3834

38-Sr-87

Inelastic:38-Sr-87g

Radionuclide Production Cross Section -10.68 To 0.368 %



77

Incident Energy (eV)

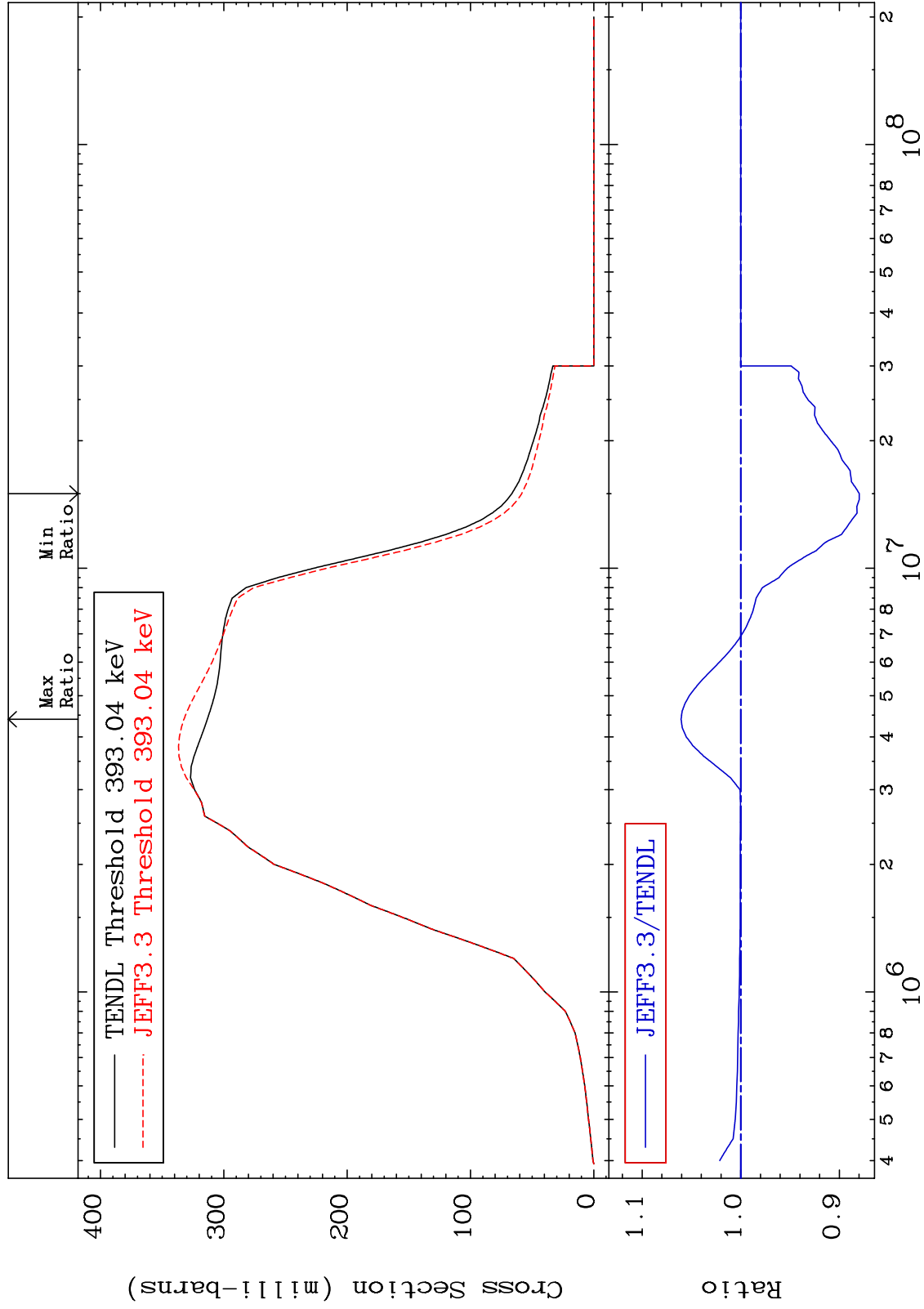
38-Sr-87

MAT 3834

Inelastic:38-Sr-87m1

38-Sr-87

Radionuclide Production Cross Section -12.02 To 6.059 %



78

Incident Energy (eV)

38-Sr-87

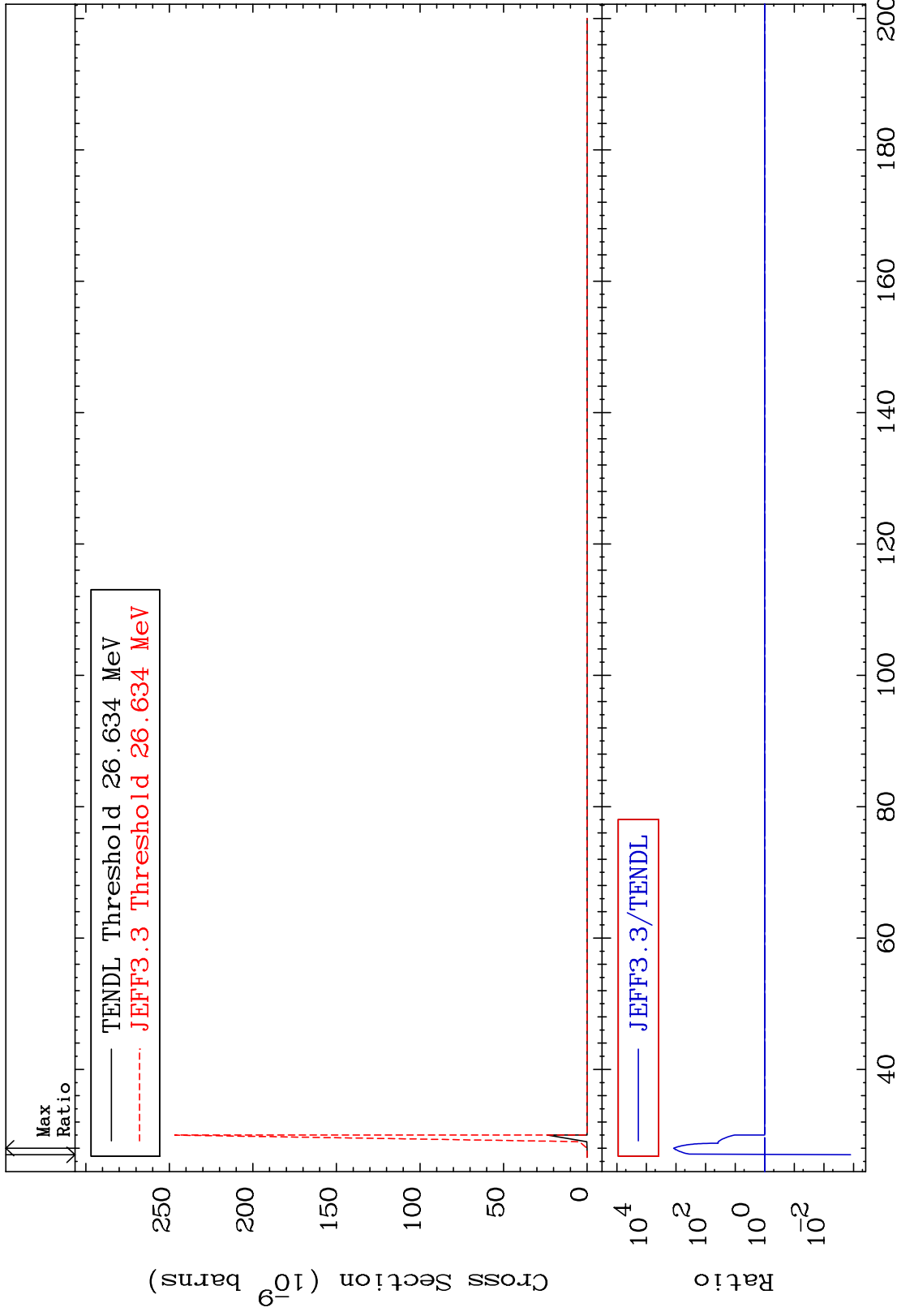
MAT 3834

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

38-Sr-87

Radionuclide Production Cross Section

-99.87 To 9999. %



79

Incident Energy (MeV)

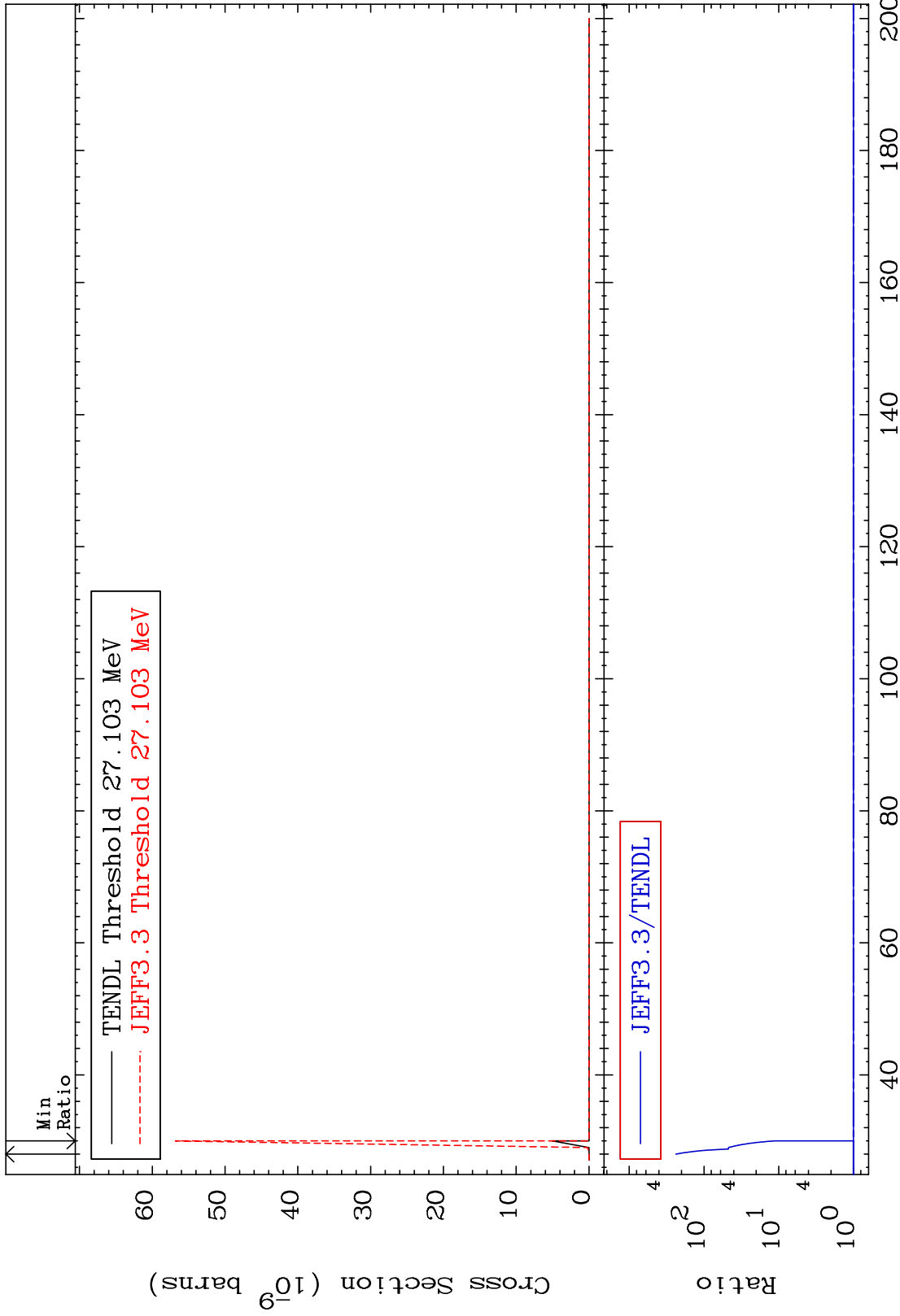
38-Sr-87

MAT 3834

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

38-Sr-87

Radionuclide Production Cross Section 0.000 To 9999. %



80

Incident Energy (MeV)

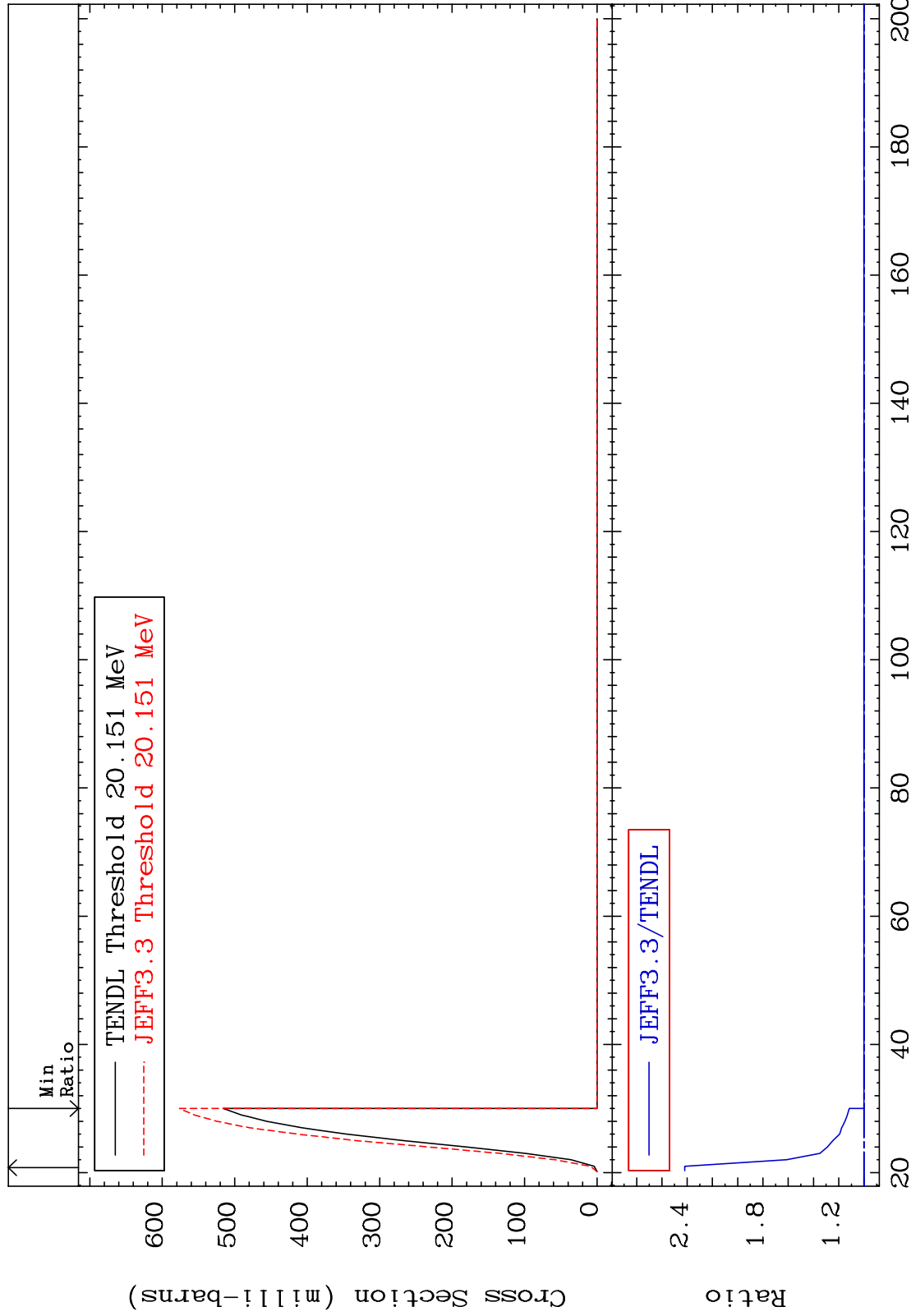
38-Sr-87

MAT 3834

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

38-Sr-87

Radionuclide Production Cross Section 0.000 To 141.9 %



81

Incident Energy (MeV)

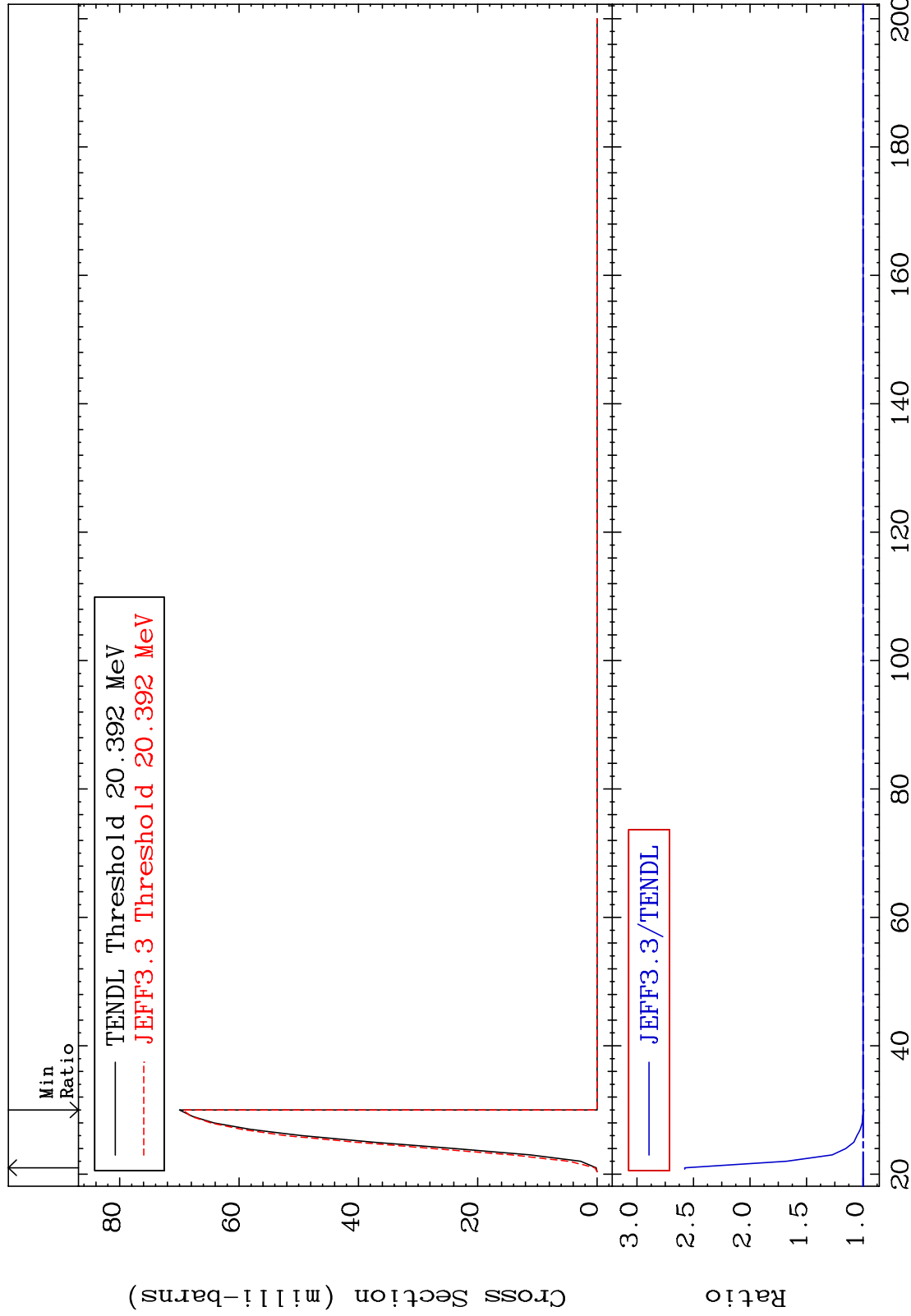
38-Sr-87

MAT 3834

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

38-Sr-87

Radionuclide Production Cross Section -0.832 To 157.7 %



82

Incident Energy (MeV)

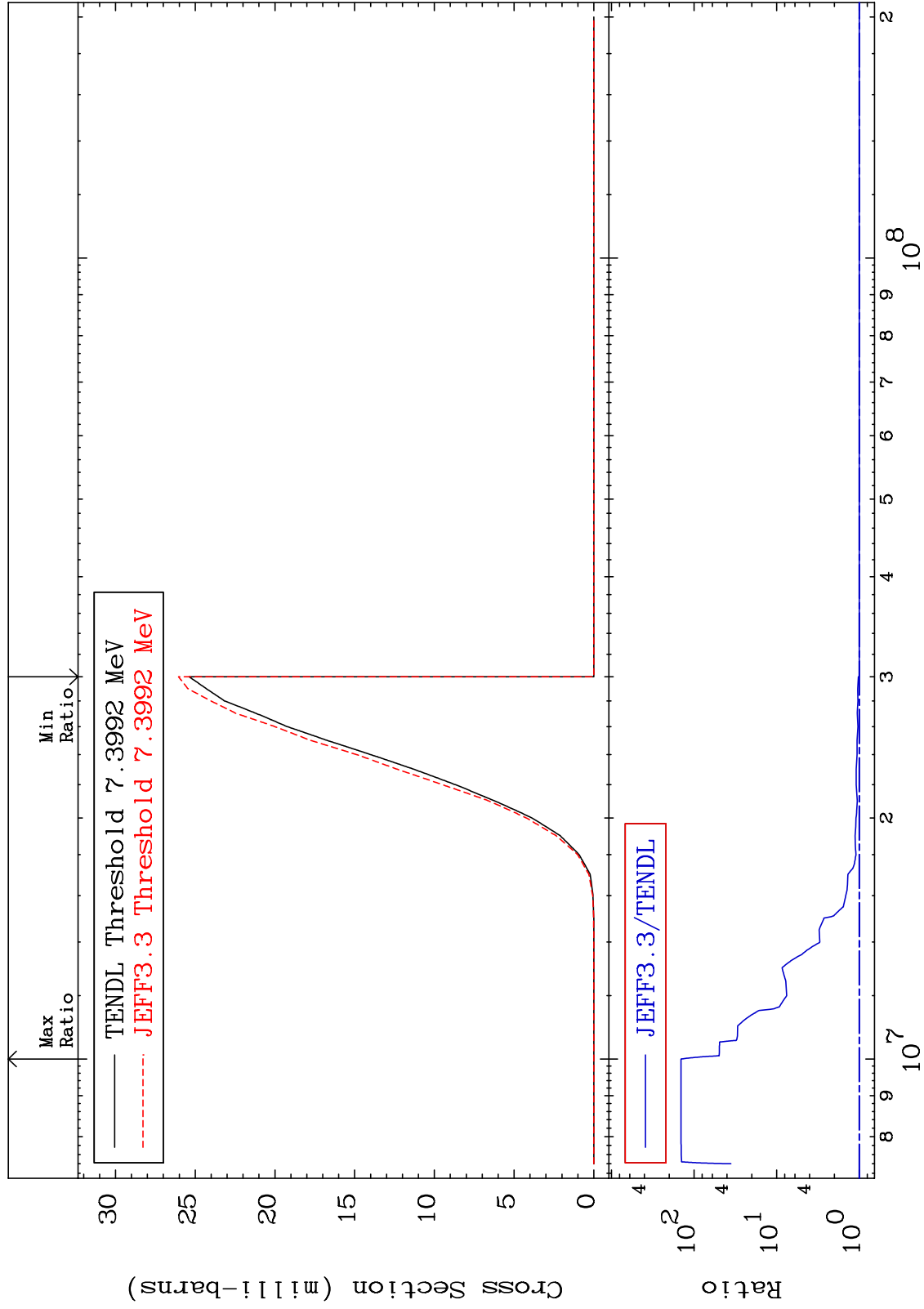
38-Sr-87

MAT 3834

(n, n') α : 36-Kr-83g

38-Sr-87

Radionuclide Production Cross Section 0.000 To 9999. %



83

Incident Energy (eV)

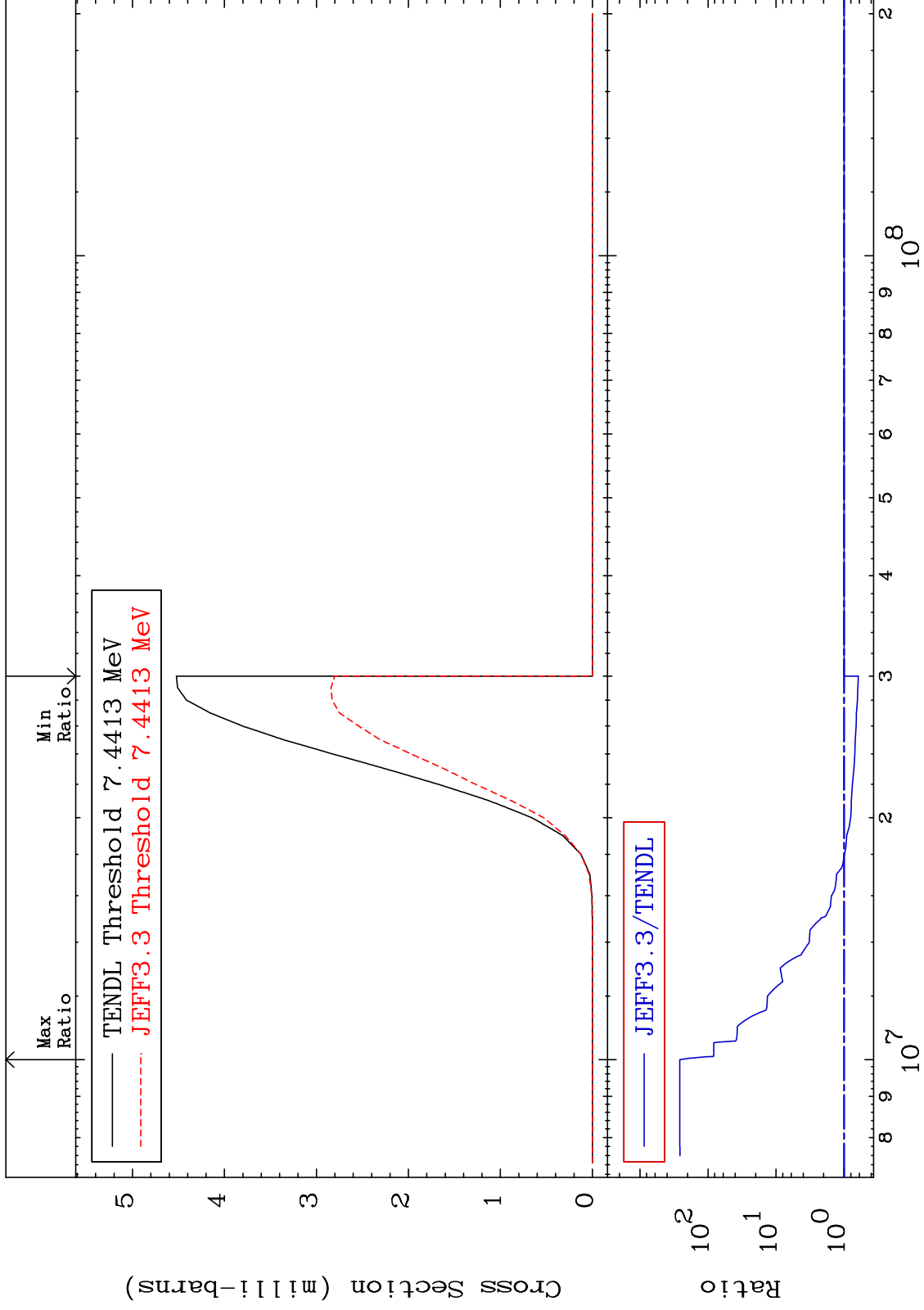
38-Sr-87

MAT 3834

(n, n') α :36-Kr-83m2

38-Sr-87

Radionuclide Production Cross Section -38.05 To 9999. %

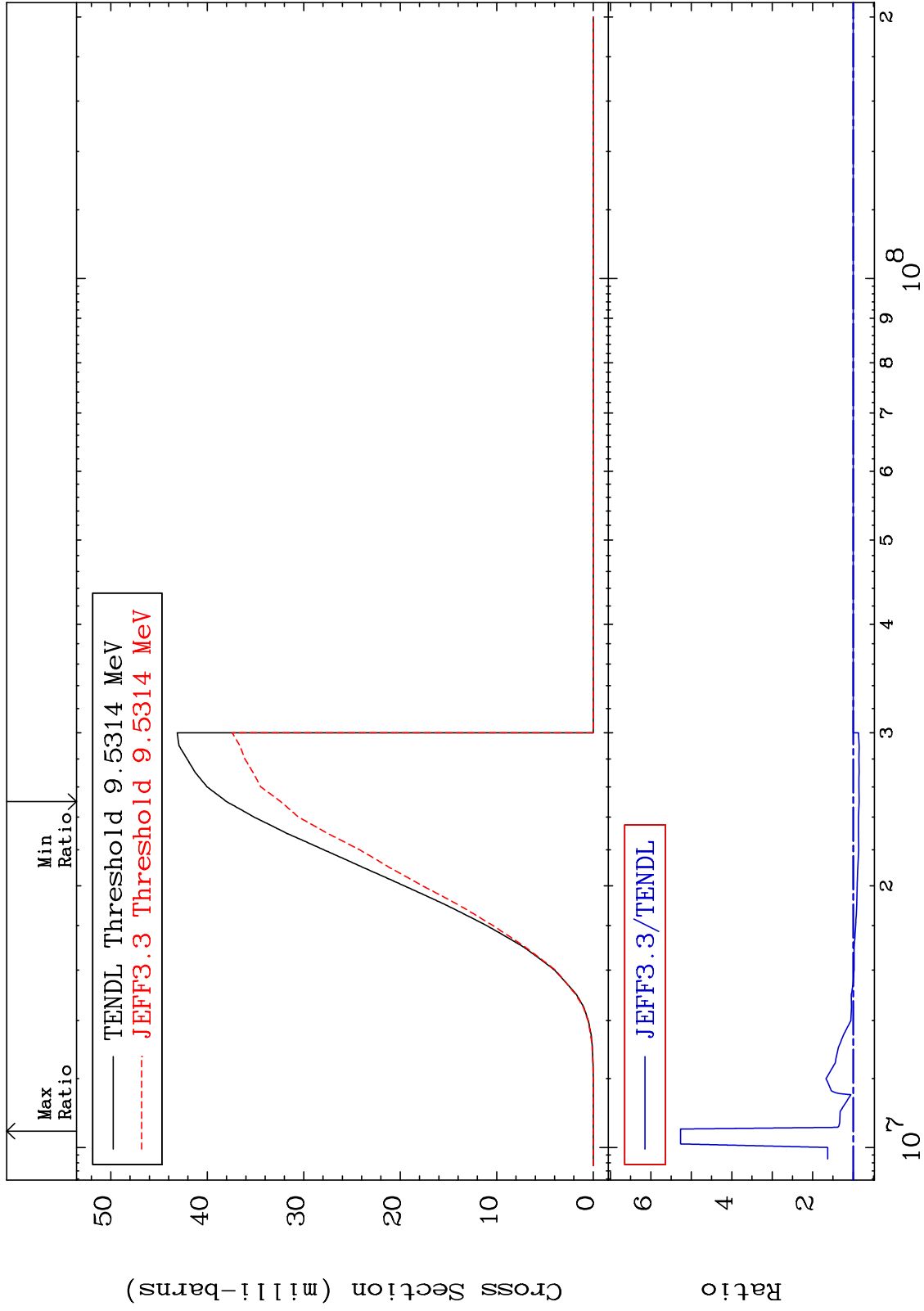


MAT 3834

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

38-Sr-87

Radionuclide Production Cross Section -14.77 To 426.5 %



85

Incident Energy (eV)

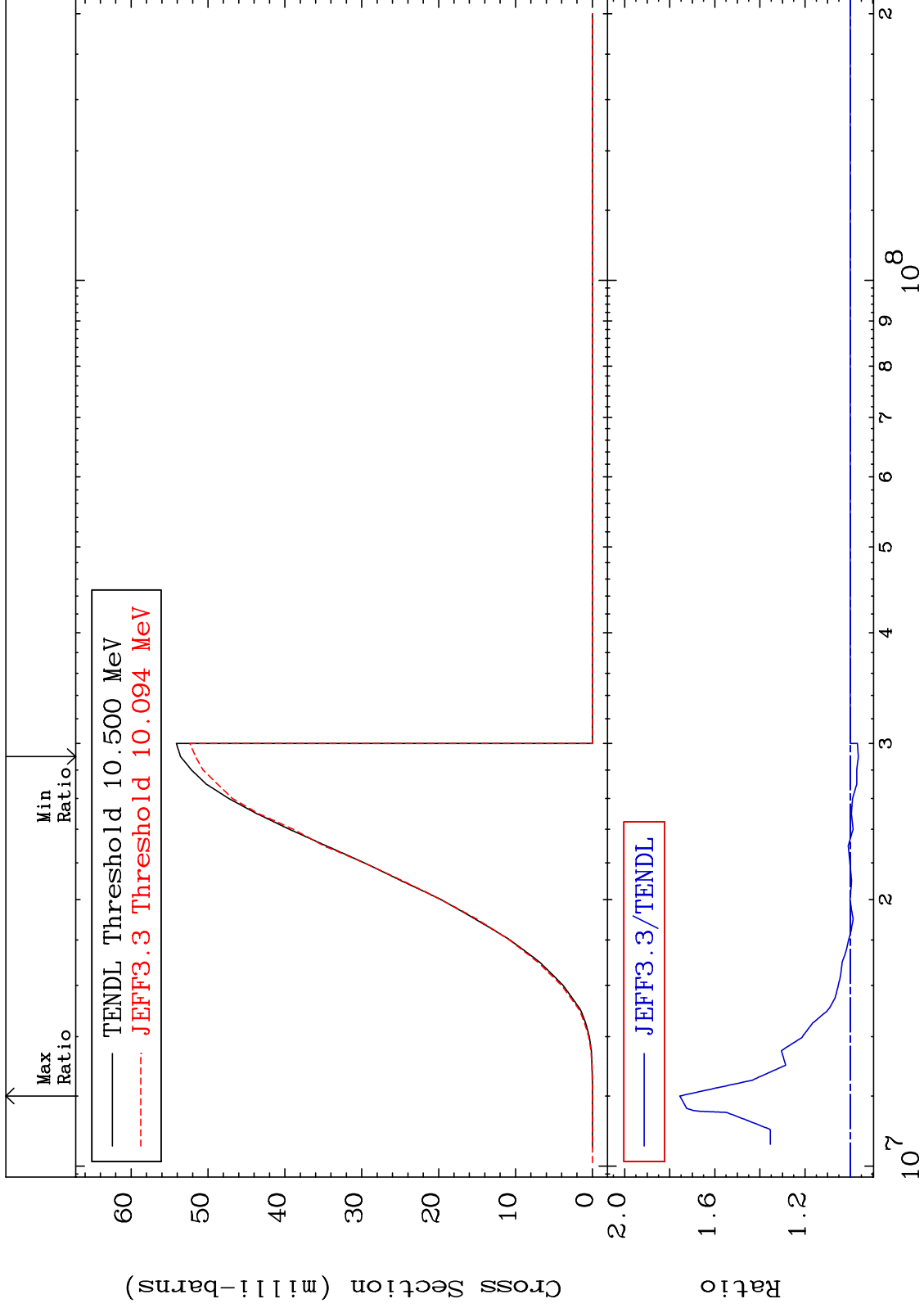
38-Sr-87

MAT 3834

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

38-Sr-87

Radionuclide Production Cross Section -3.632 To 75.54 %



86

Incident Energy (eV)

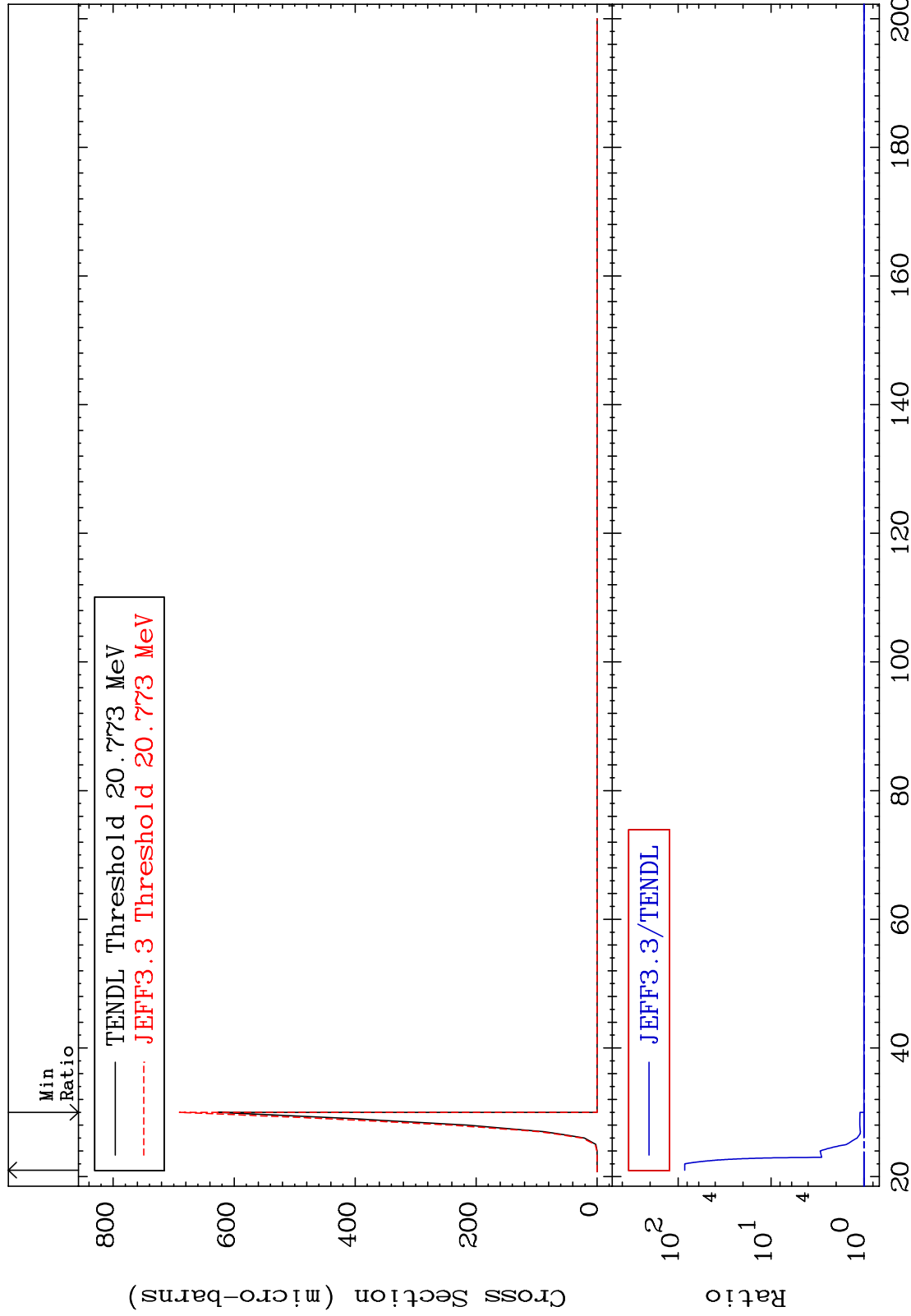
38-Sr-87

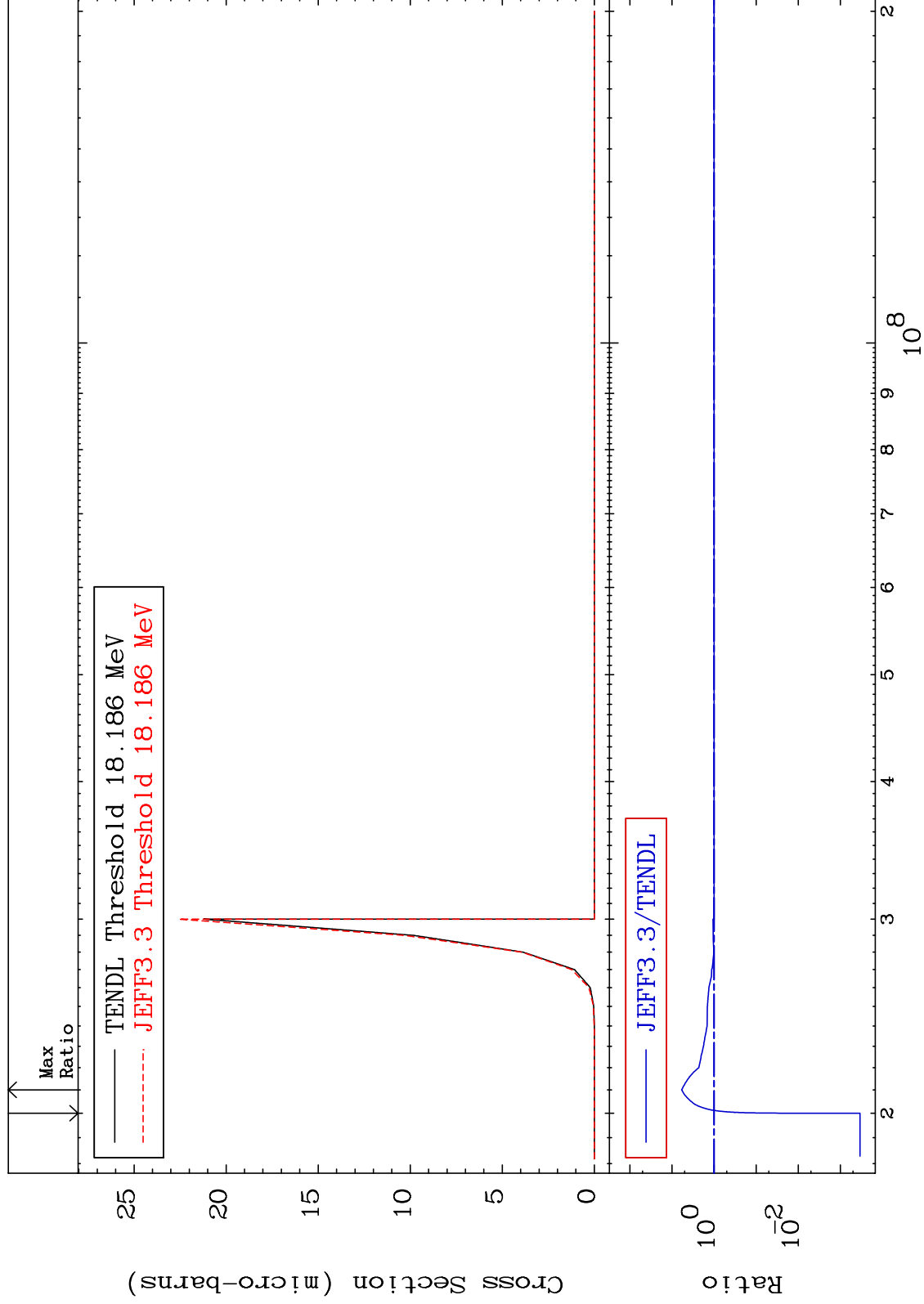
MAT 3834

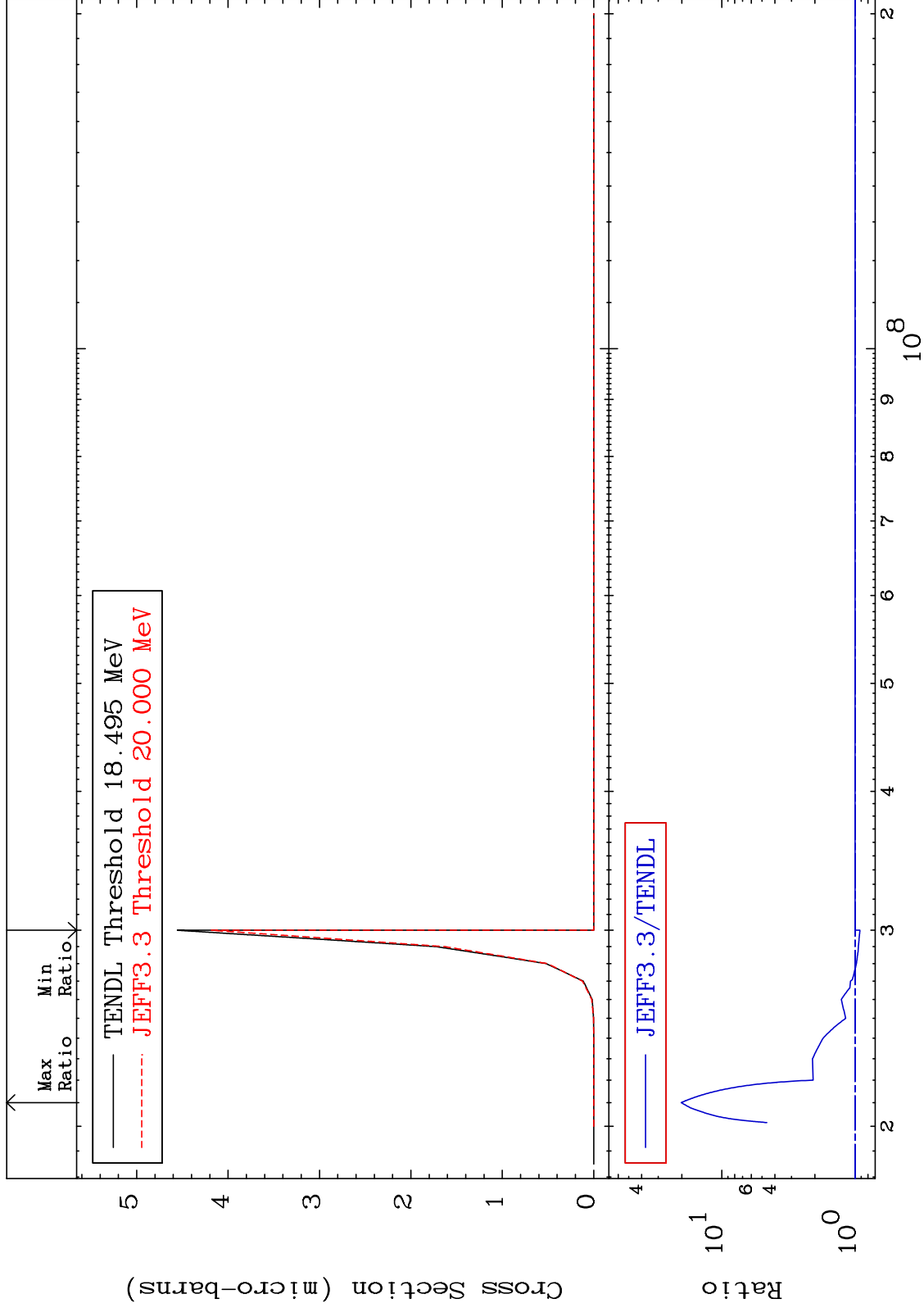
(n, n') t:37-Rb-84m2

38-Sr-87

Radionuclide Production Cross Section 0.000 To 8378. %





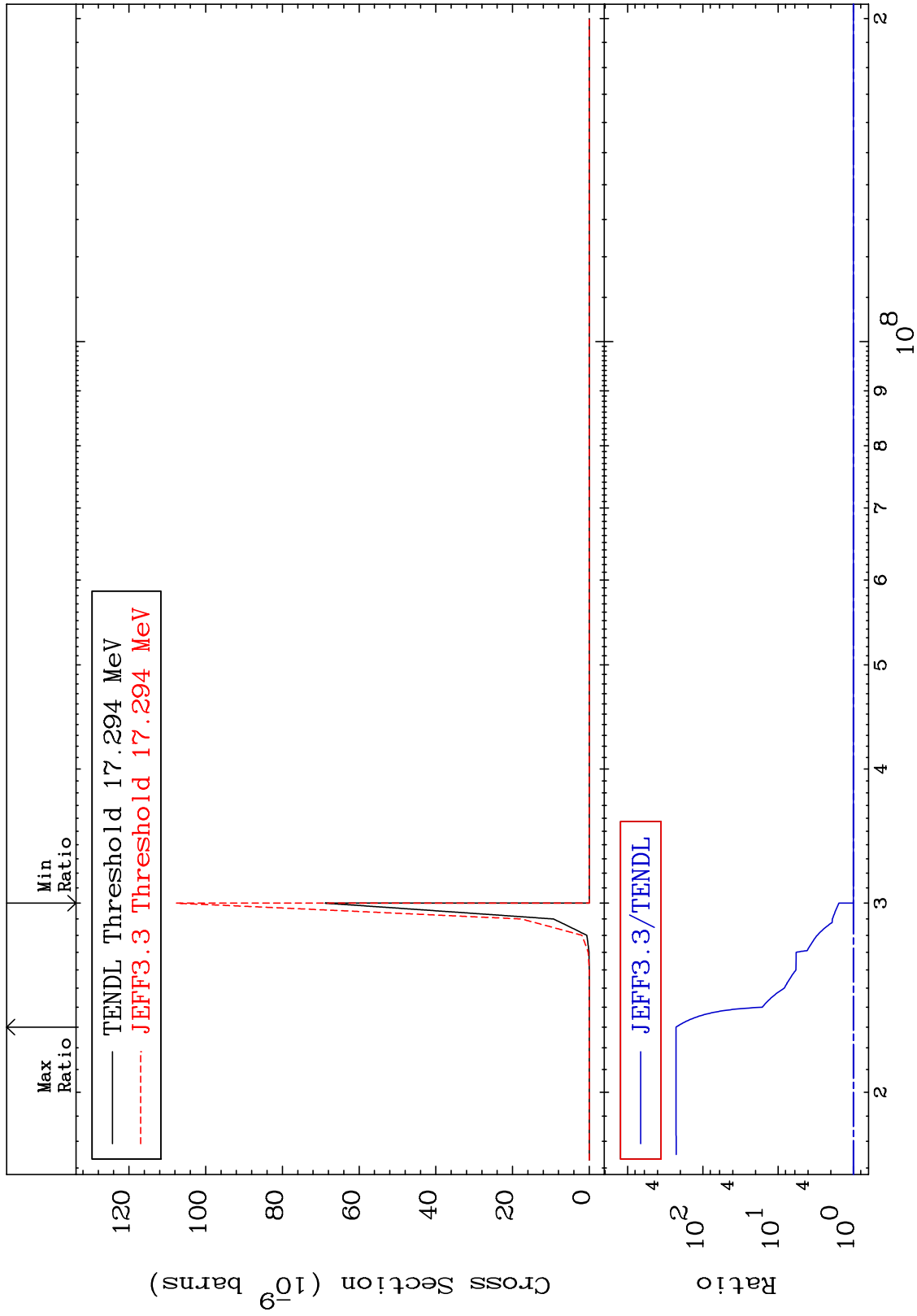


MAT 3834

(n, n') p α : 35-Br-82g

38-Sr-87

Radionuclide Production Cross Section 0.000 To 9999. %

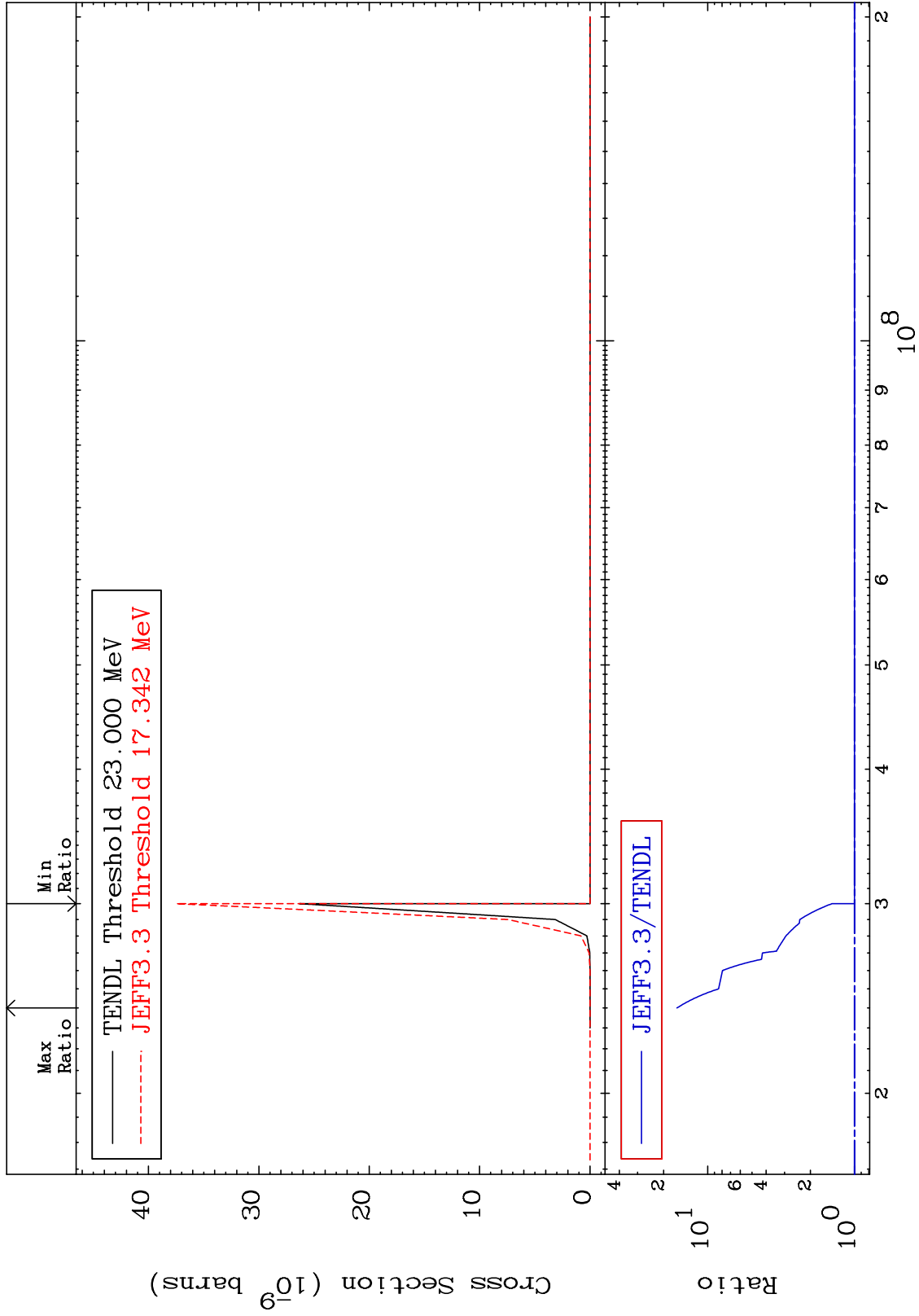


MAT 3834

(n, n') p α :35-Br-82m1

38-Sr-87

Radionuclide Production Cross Section 0.000 To 1520. %



92

Incident Energy (eV)

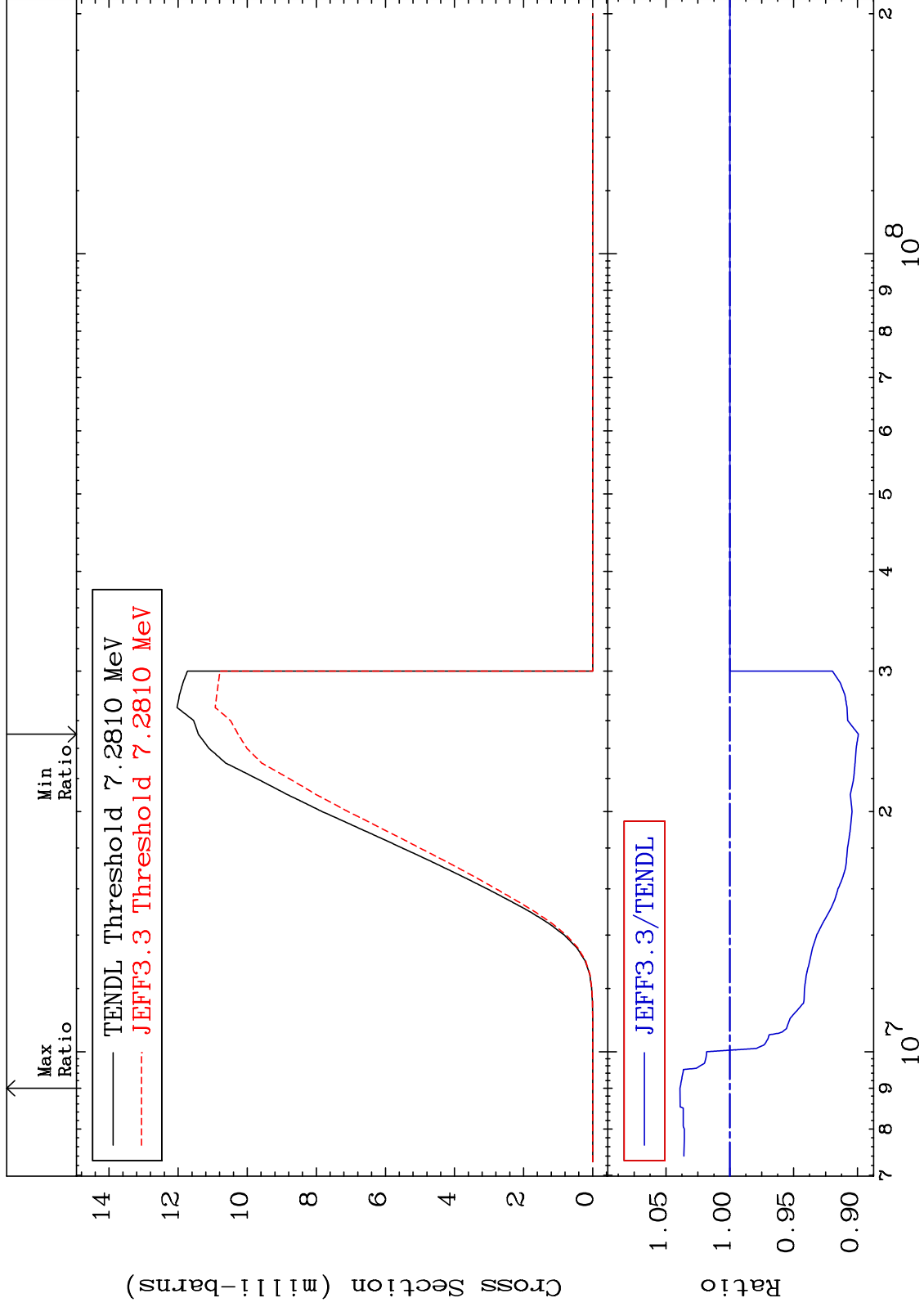
38-Sr-87

MAT 3834

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

38-Sr-87

Radionuclide Production Cross Section -10.07 To 3.903 %



93

Incident Energy (eV)

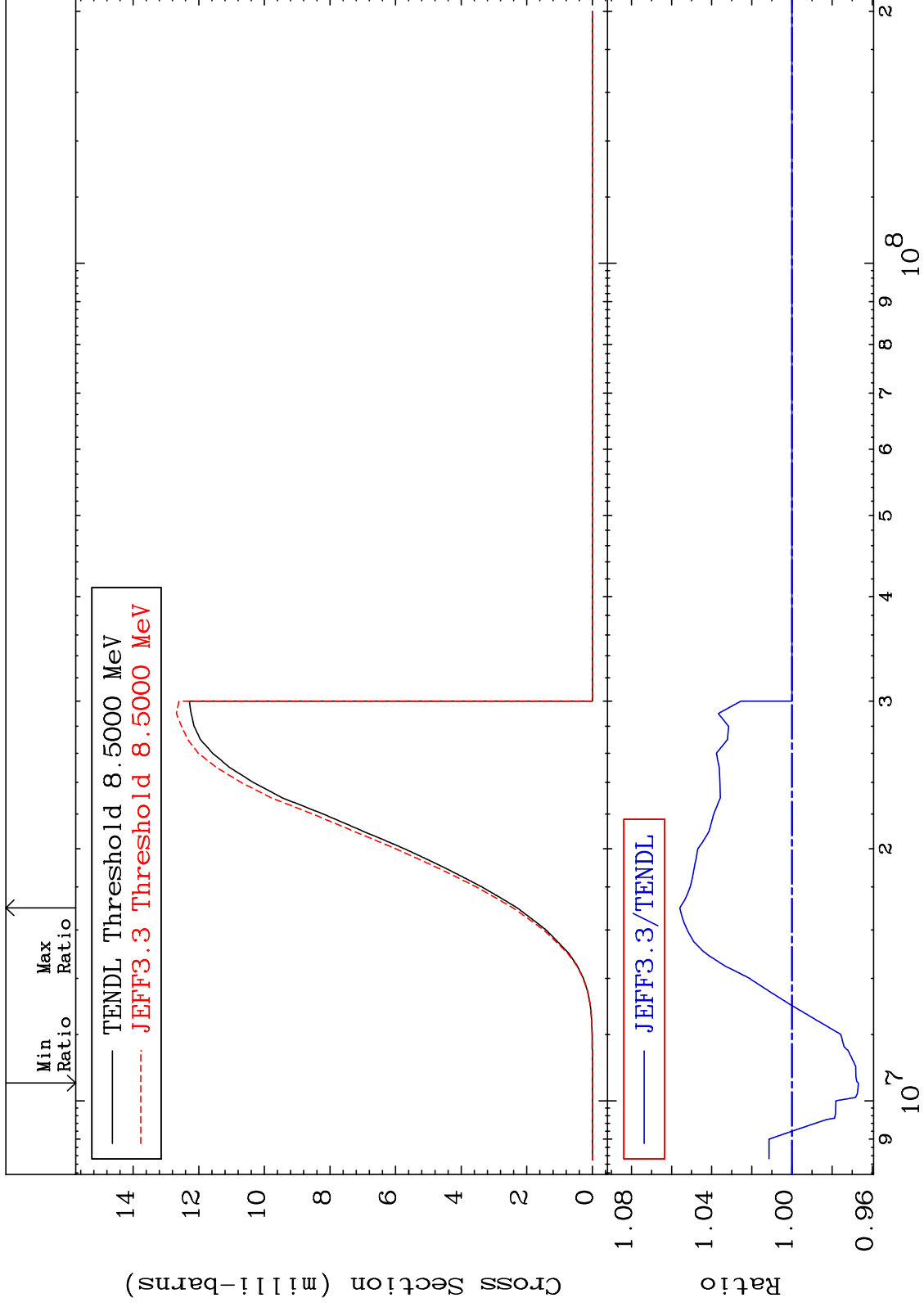
38-Sr-87

MAT 3834

(n, d): 37-Rb-86m2

38-Sr-87

Radionuclide Production Cross Section -3.308 To 5.589 %



94

Incident Energy (eV)

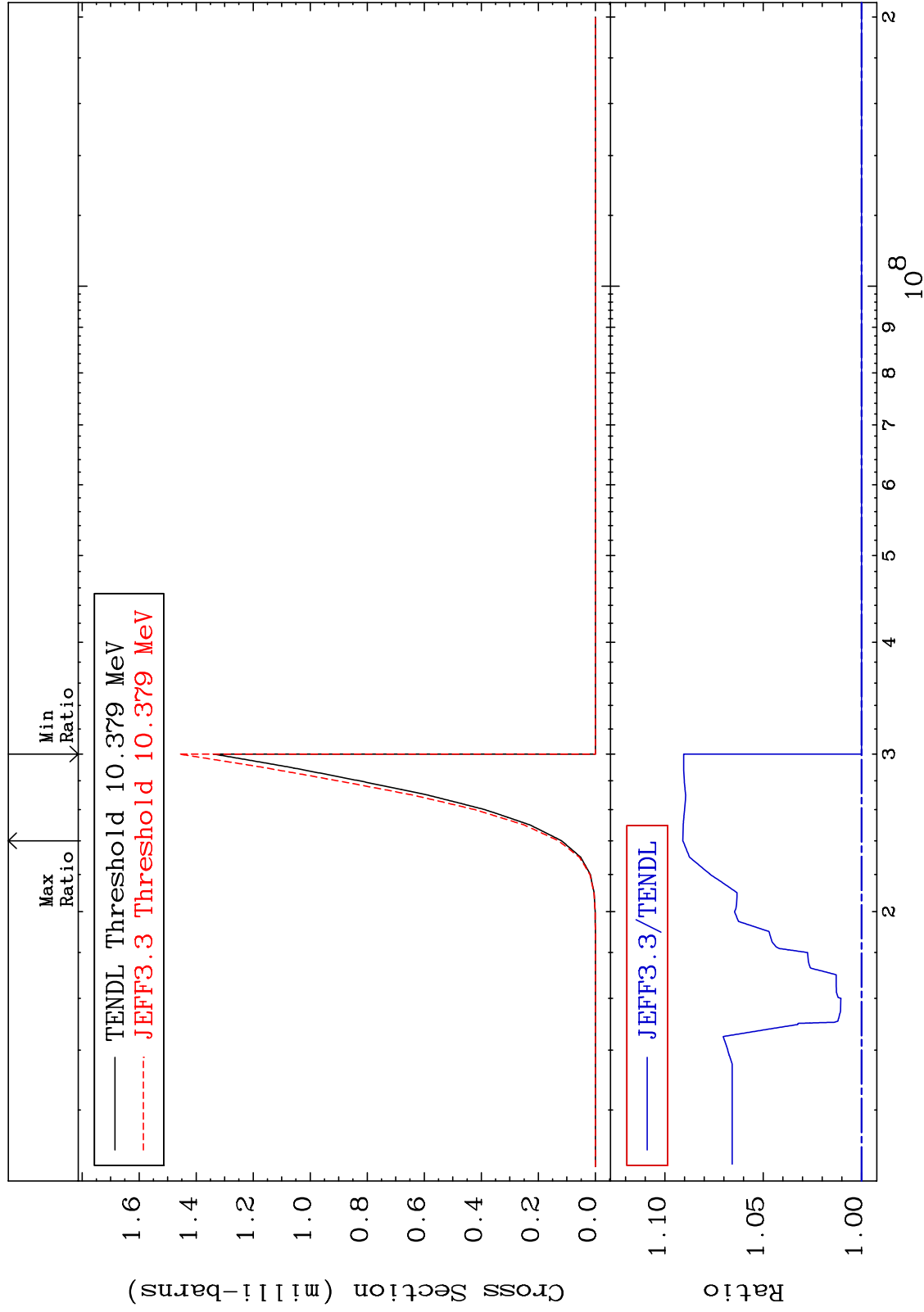
38-Sr-87

MAT 3834

38-Sr-87

(n,He-3) : 36-Kr-85g

Radionuclide Production Cross Section 0.000 To 9.089 %



95

Incident Energy (eV)

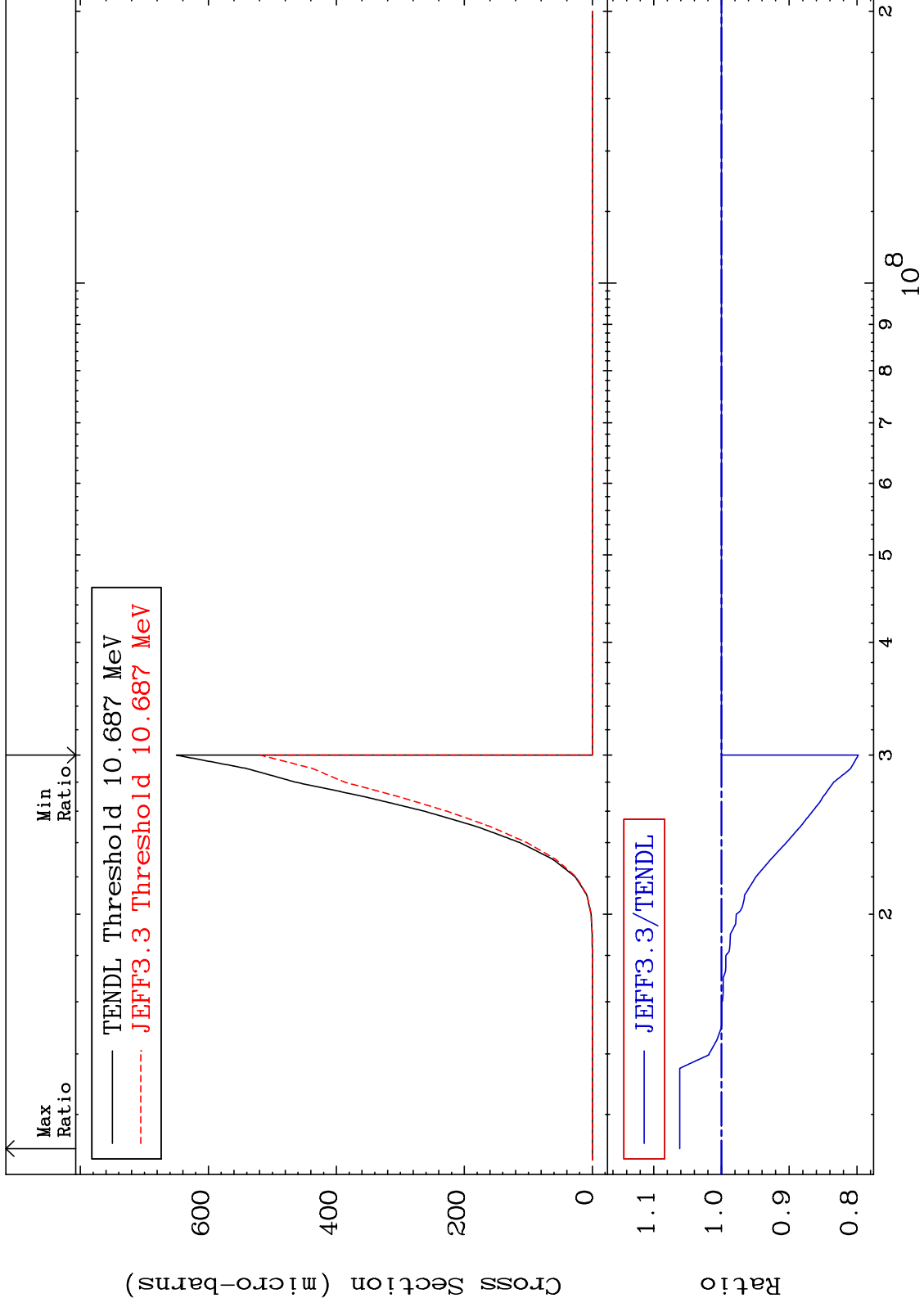
38-Sr-87

MAT 3834

(n,He-3):36-Kr-85m1

38-Sr-87

Radionuclide Production Cross Section -20.20 To 6.147 %

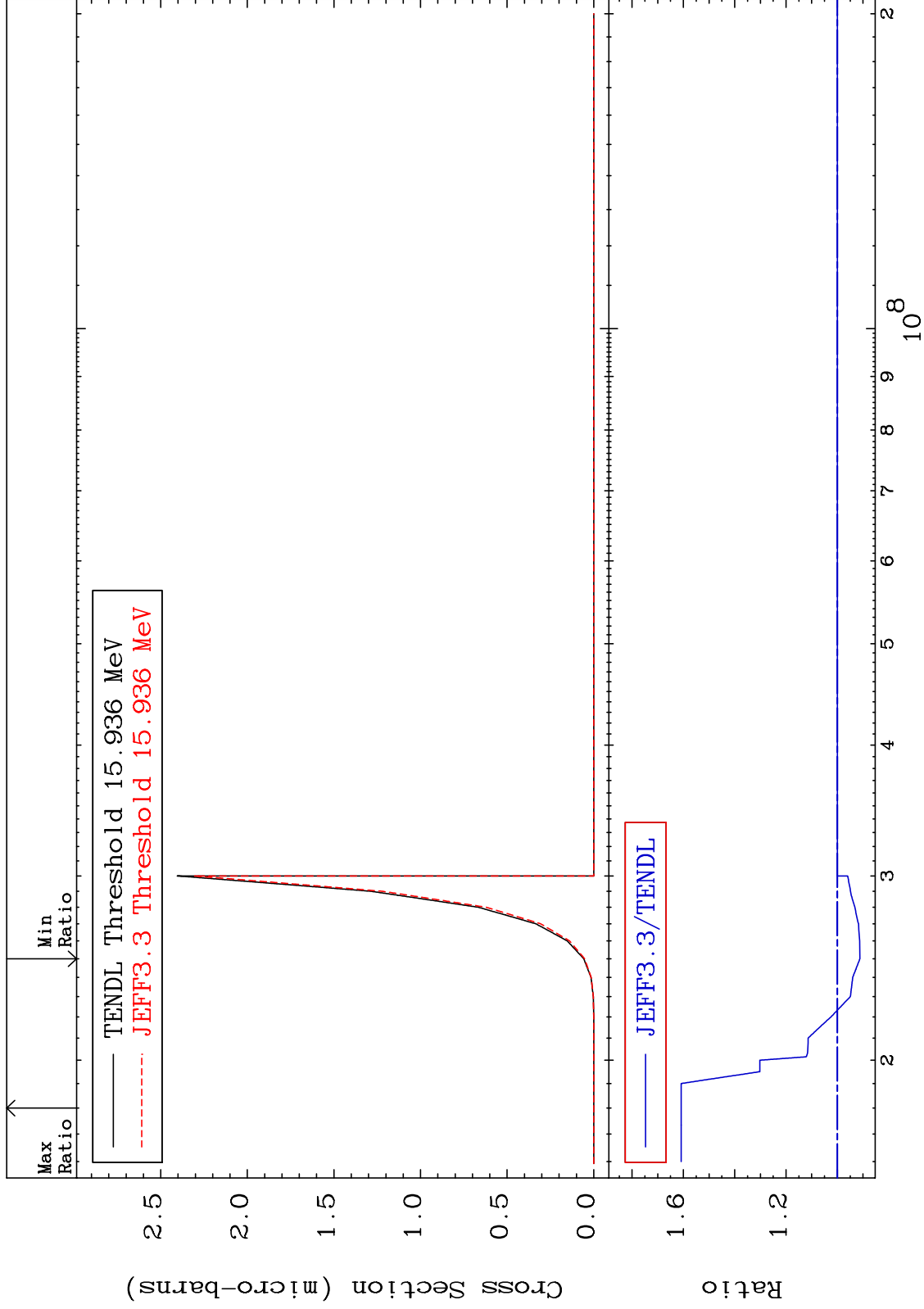


MAT 3834

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

38-Sr-87

Radionuclide Production Cross Section -8.805 To 60.84 %



97

Incident Energy (eV)

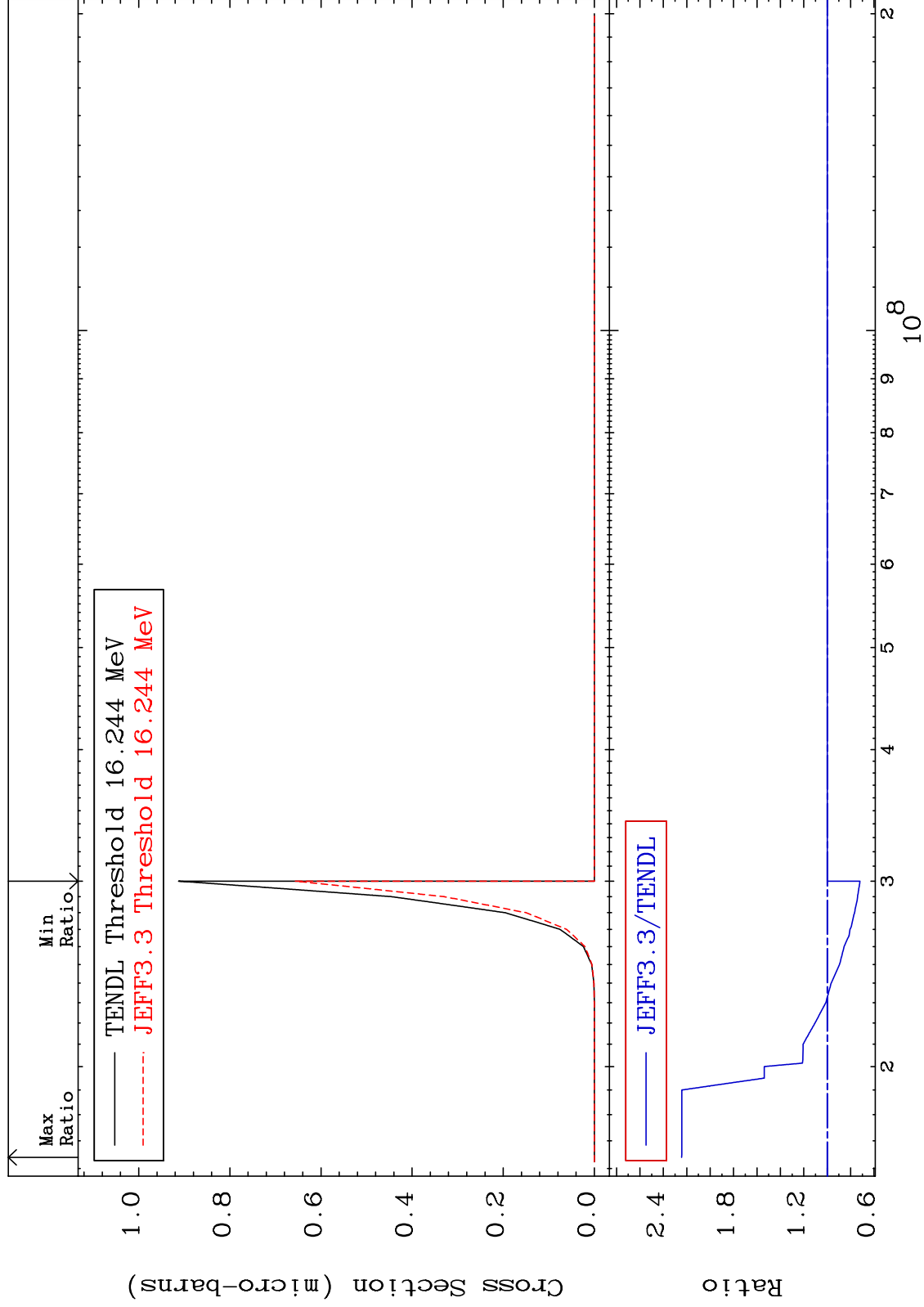
38-Sr-87

MAT 3834

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

38-Sr-87

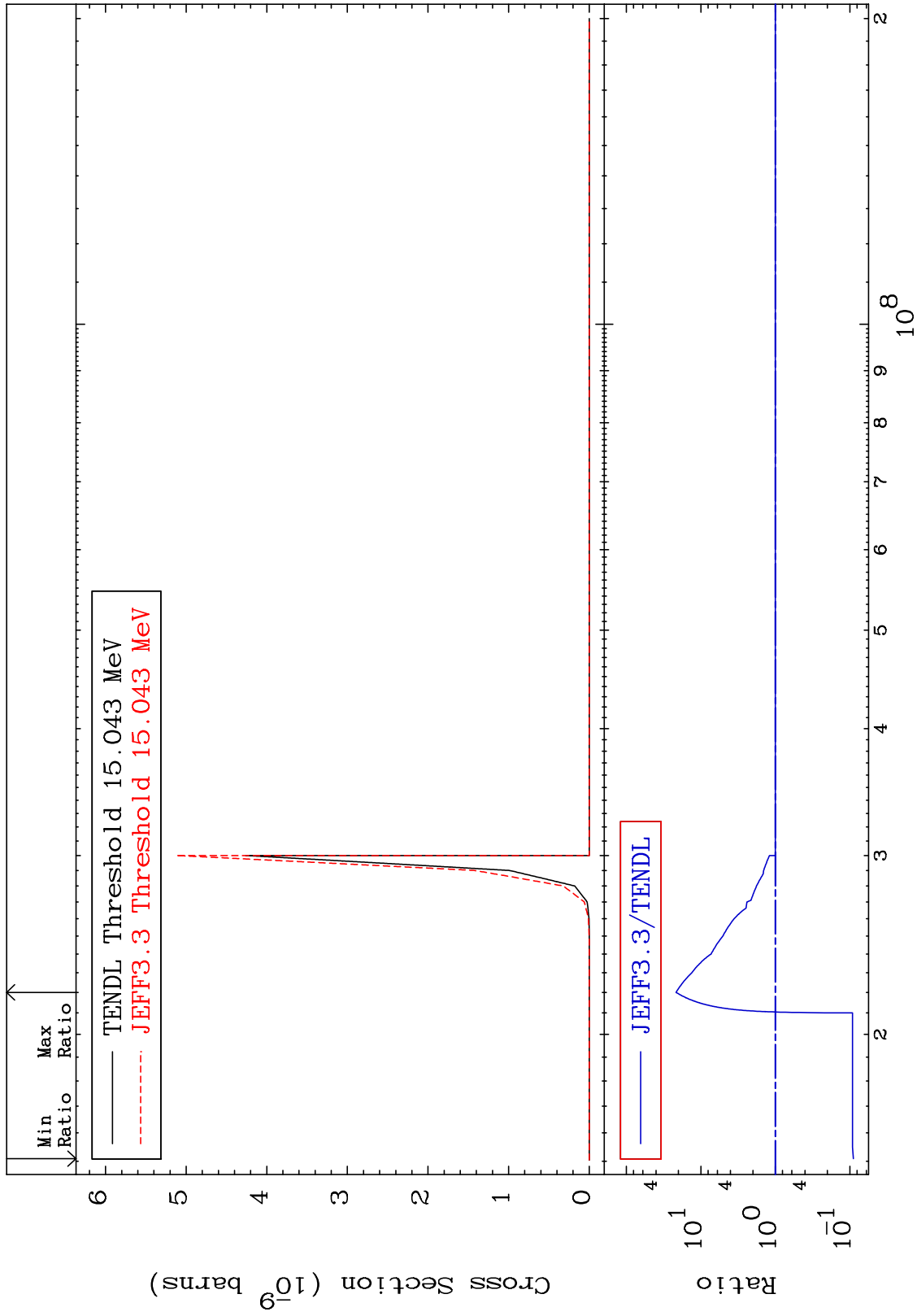
Radionuclide Production Cross Section -28.07 To 124.4 %



98

Incident Energy (eV)

38-Sr-87

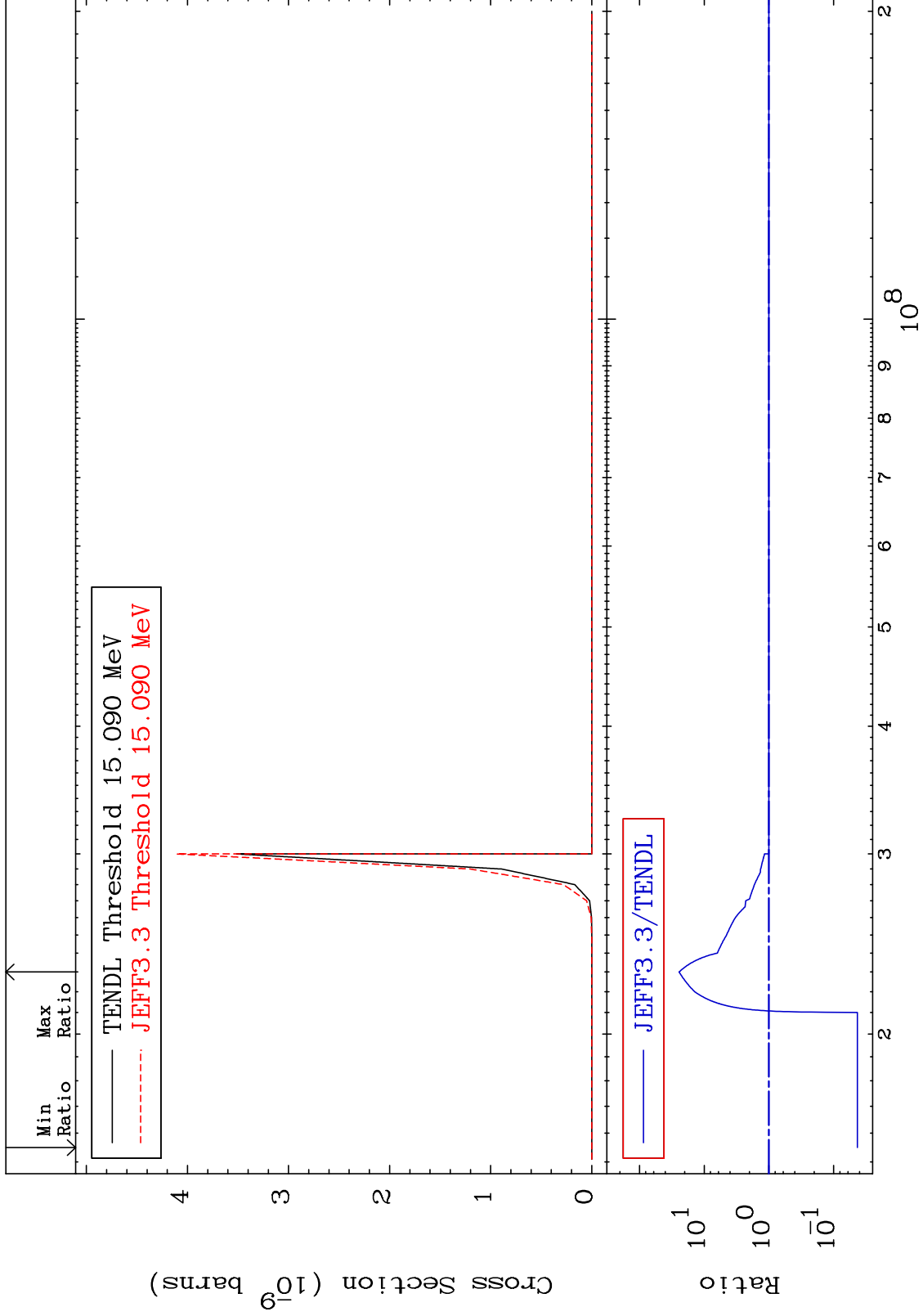


MAT 3834

(n, d) α : 35-Br-82m1

38-Sr-87

Radionuclide Production Cross Section -95.70 To 2344. %



100

Incident Energy (eV)

38-Sr-87