

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

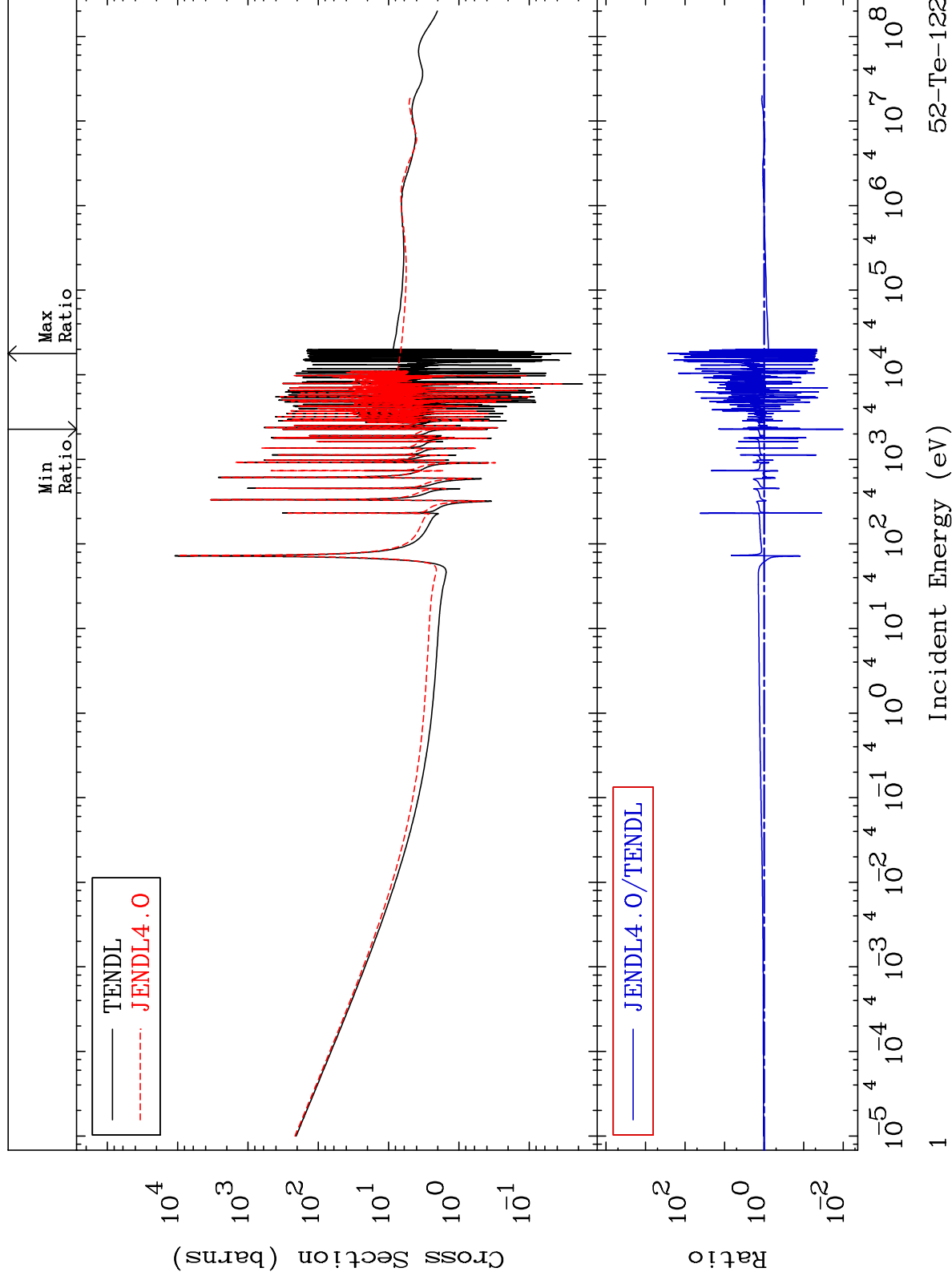
MAT 5231

Total

52-Te-122

Cross Section

-98.98 To 9999. %



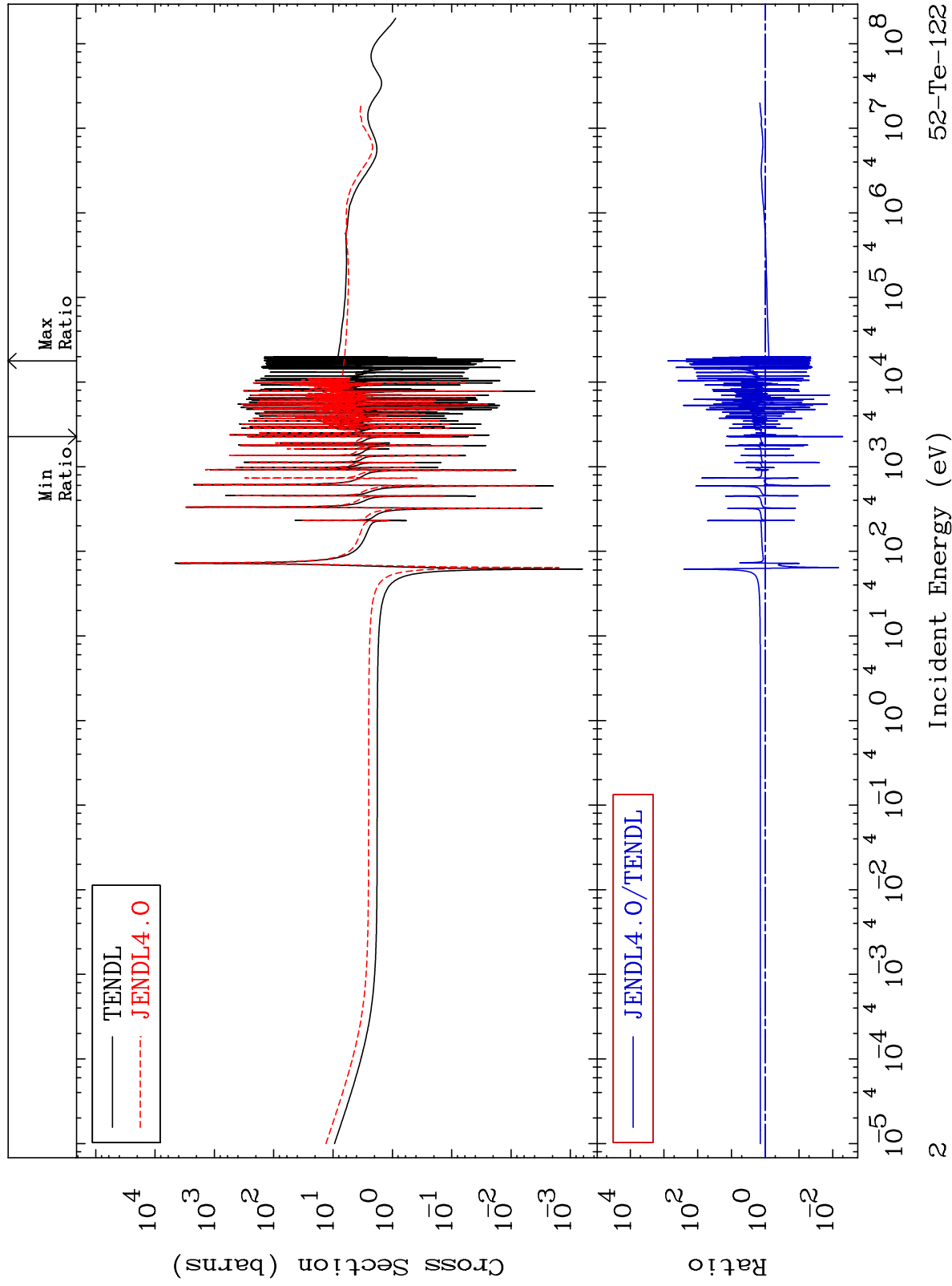
Incident Energy (eV)

52-Te-122

MAT 5231

Elastic
Cross Section

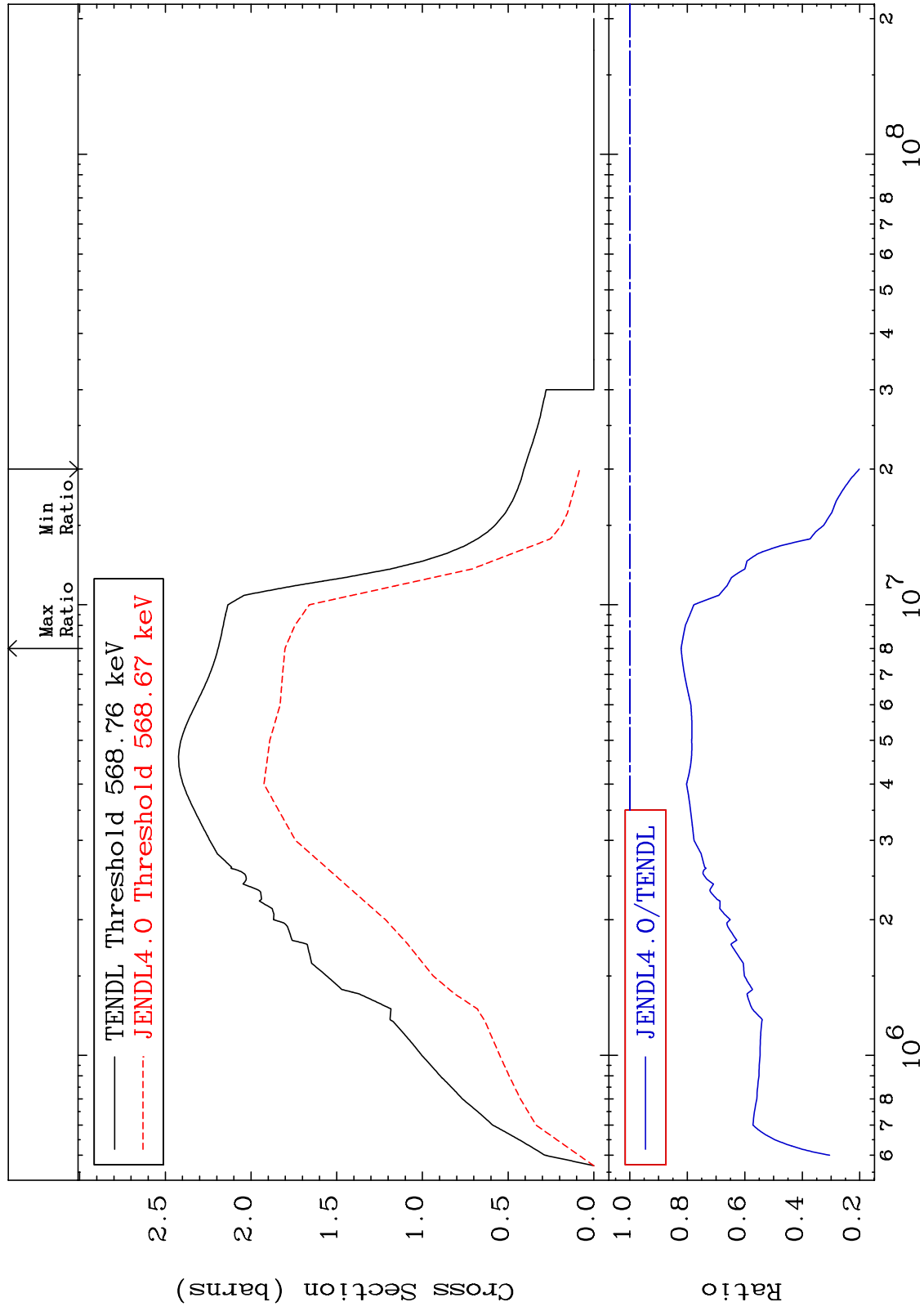
52-Te-122
-99.50 To 9999. %



MAT 5231

52-Te-122
-79.83 To -17.81%

Inelastic
Cross Section



3

Incident Energy (eV)

52-Te-122

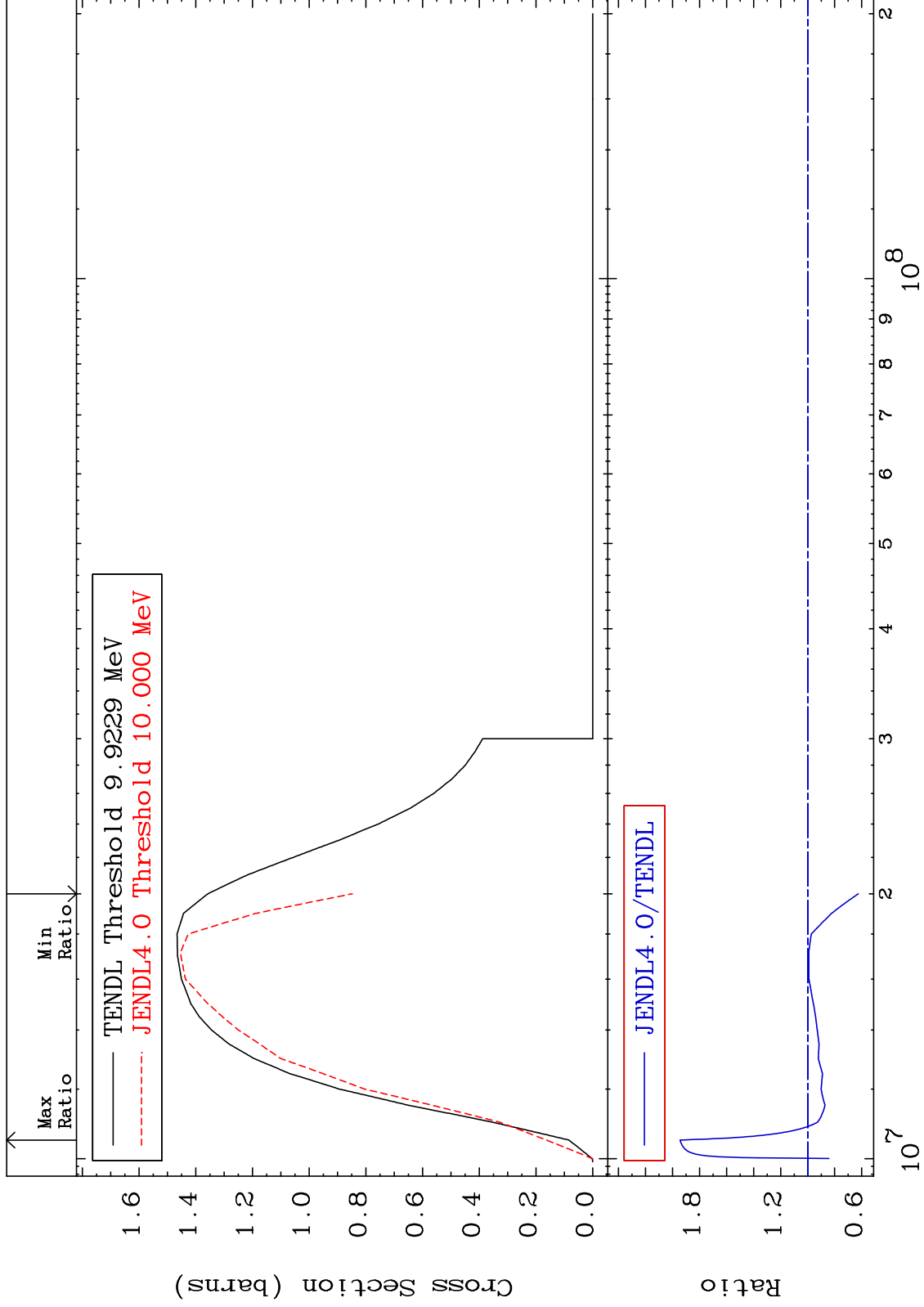
MAT 5231

(n,2n)

52-Te-122

Cross Section

-37.55 To 94.47 %



Incident Energy (eV)

52-Te-122

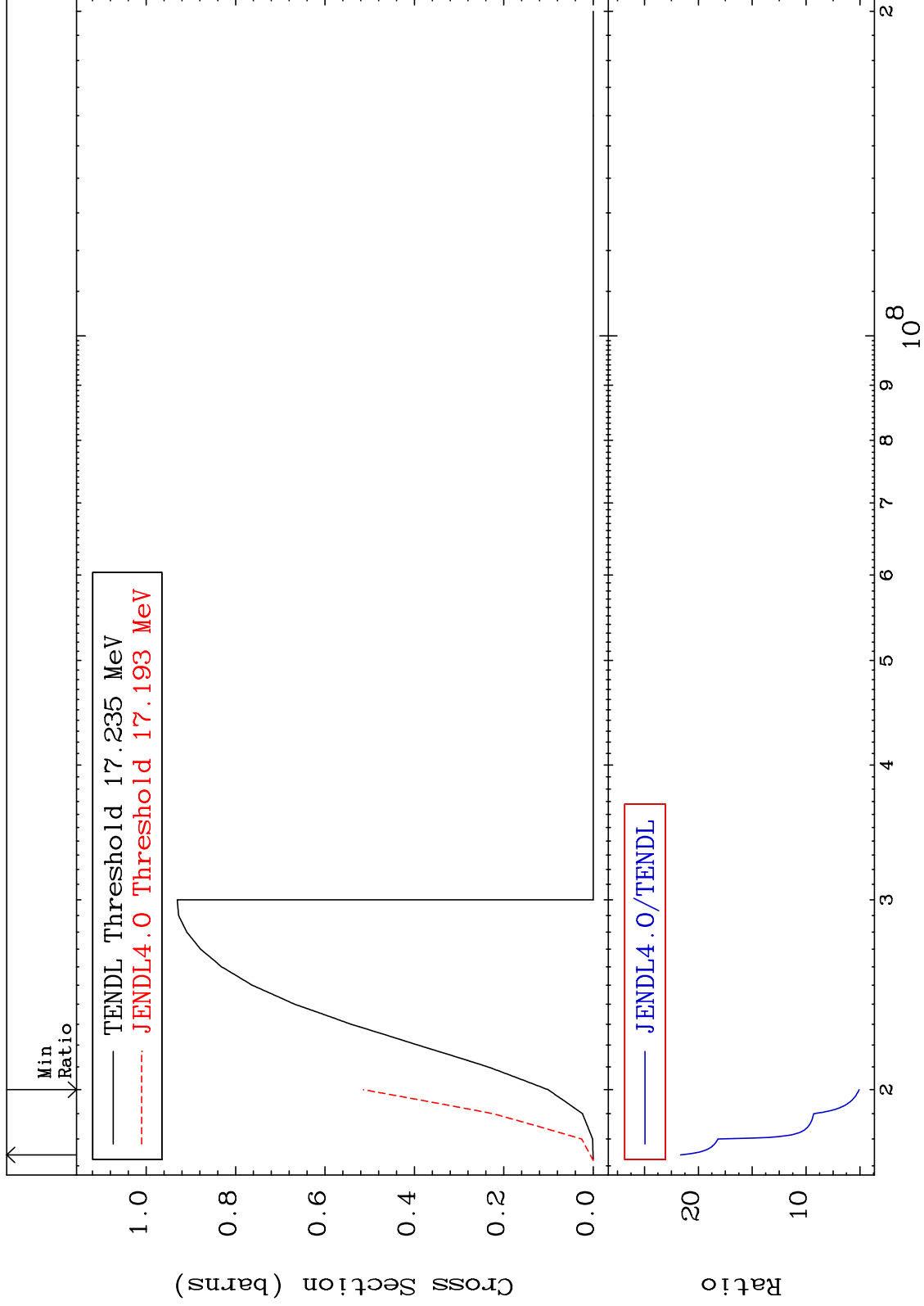
MAT 5231

(n,3n)

52-Te-122

Cross Section

407.8 To 2065. %



5

Incident Energy (eV)

52-Te-122

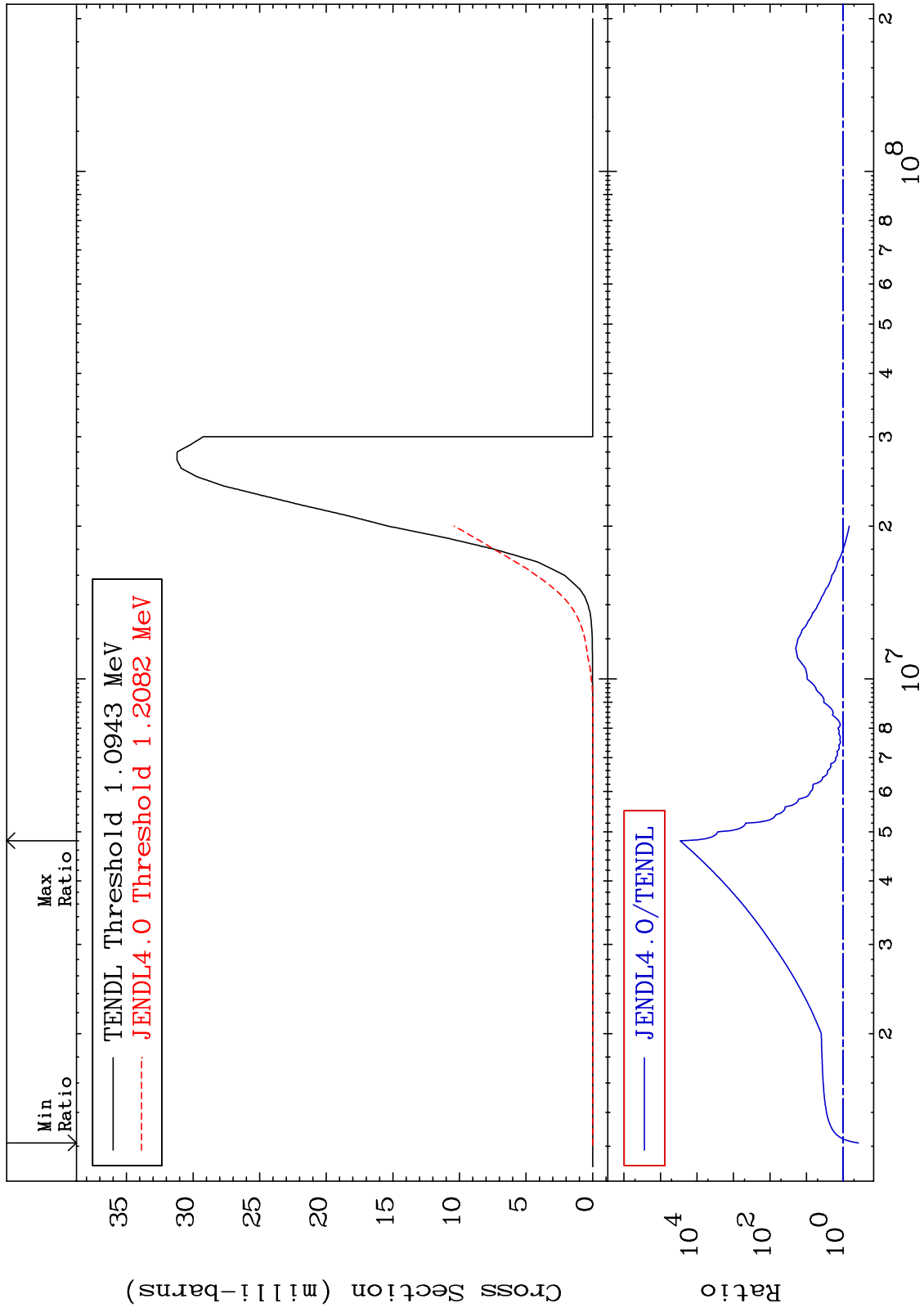
MAT 5231

(n, n') α

52-Te-122

Cross Section

-62.18 To 9999. %



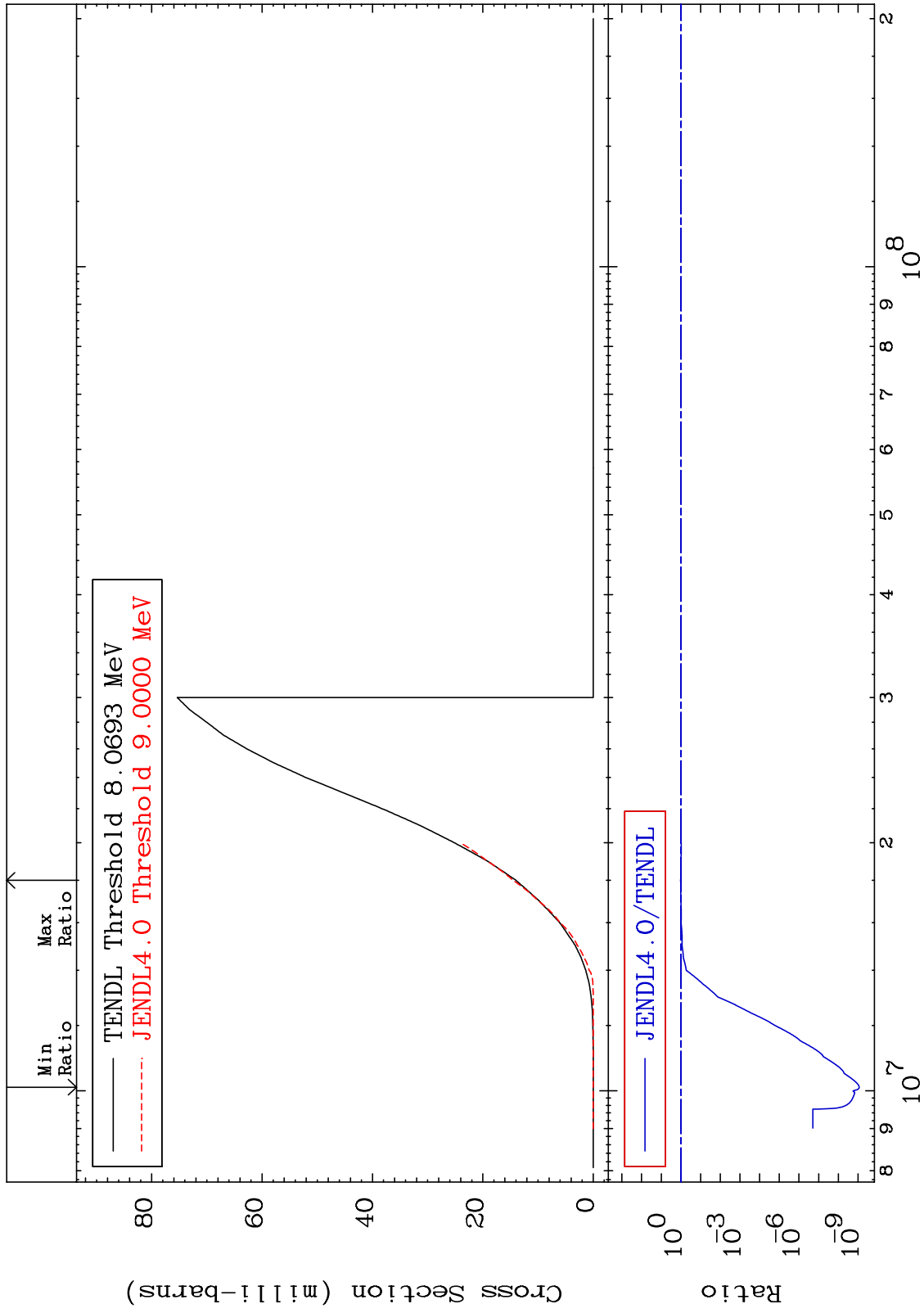
MAT 5231

(n,n') p

52-Te-122

Cross Section

-100.0 To 3.645 %



7

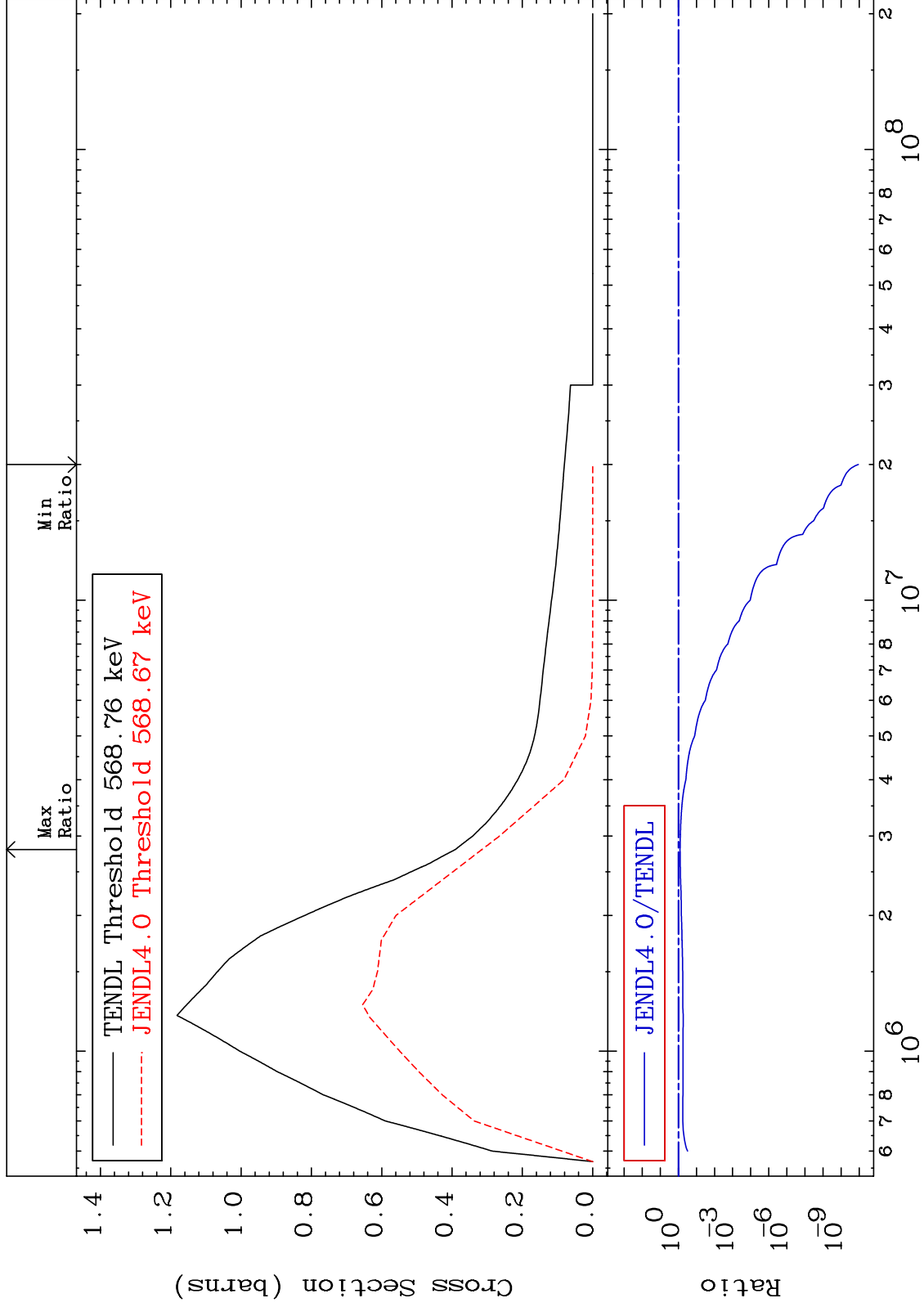
Incident Energy (eV)

52-Te-122

MAT 5231

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

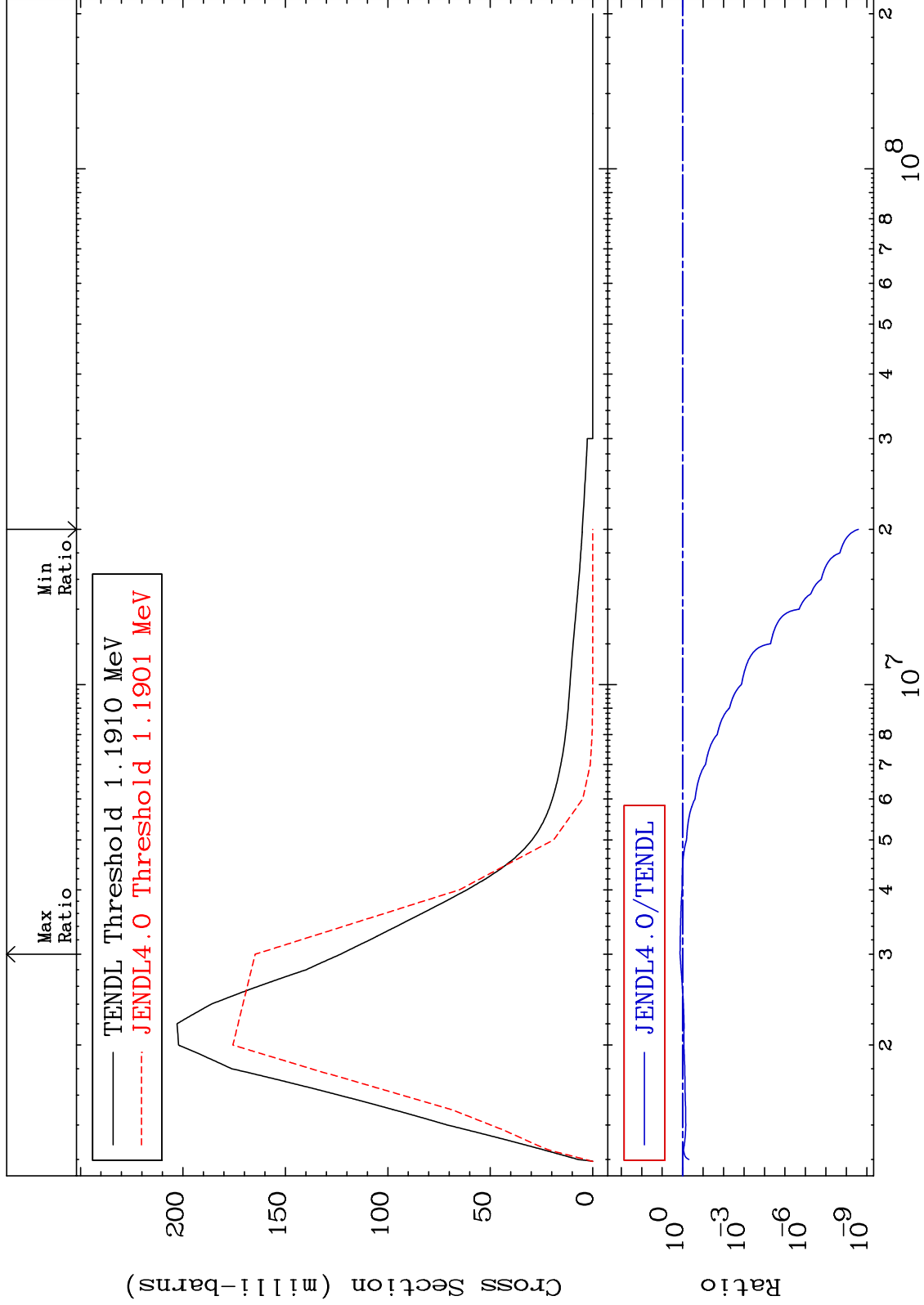
52-Te-122
-100.0 To -19.35%



MAT 5231

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

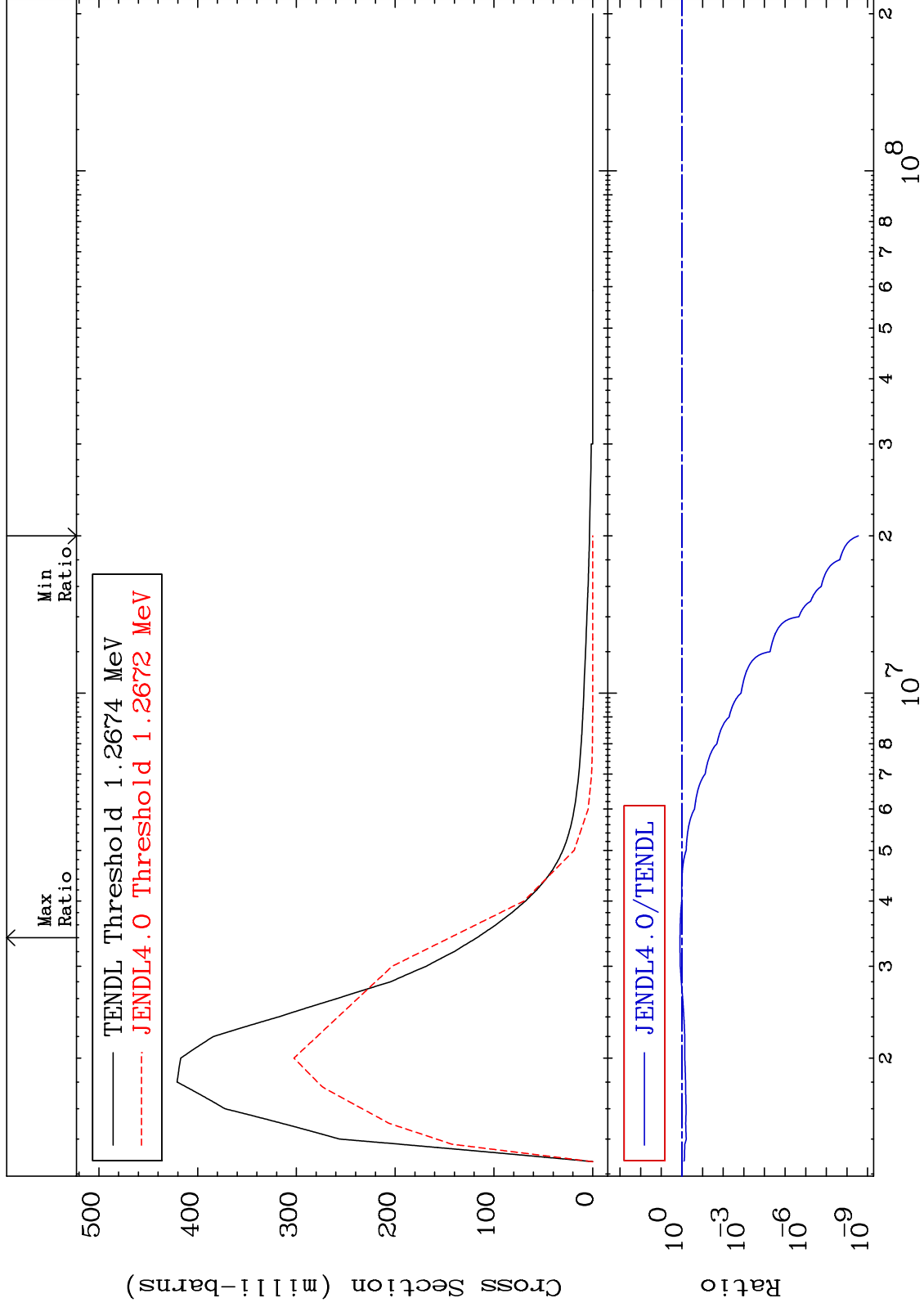
52-Te-122
-100.0 To 33.82 %



MAT 5231

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

52-Te-122
-100.0 To 23.57 %



10

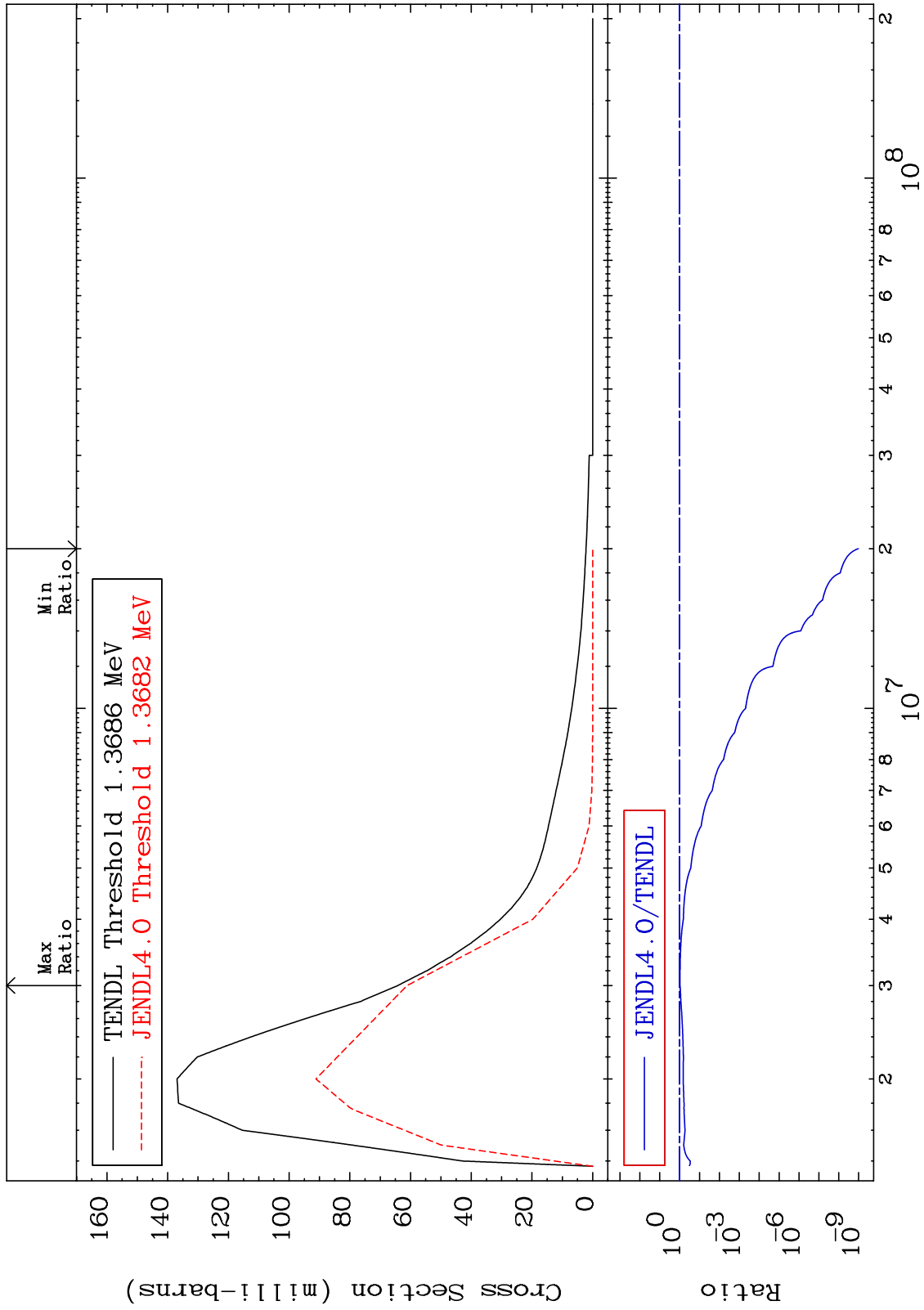
Incident Energy (eV)

52-Te-122

MAT 5231

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

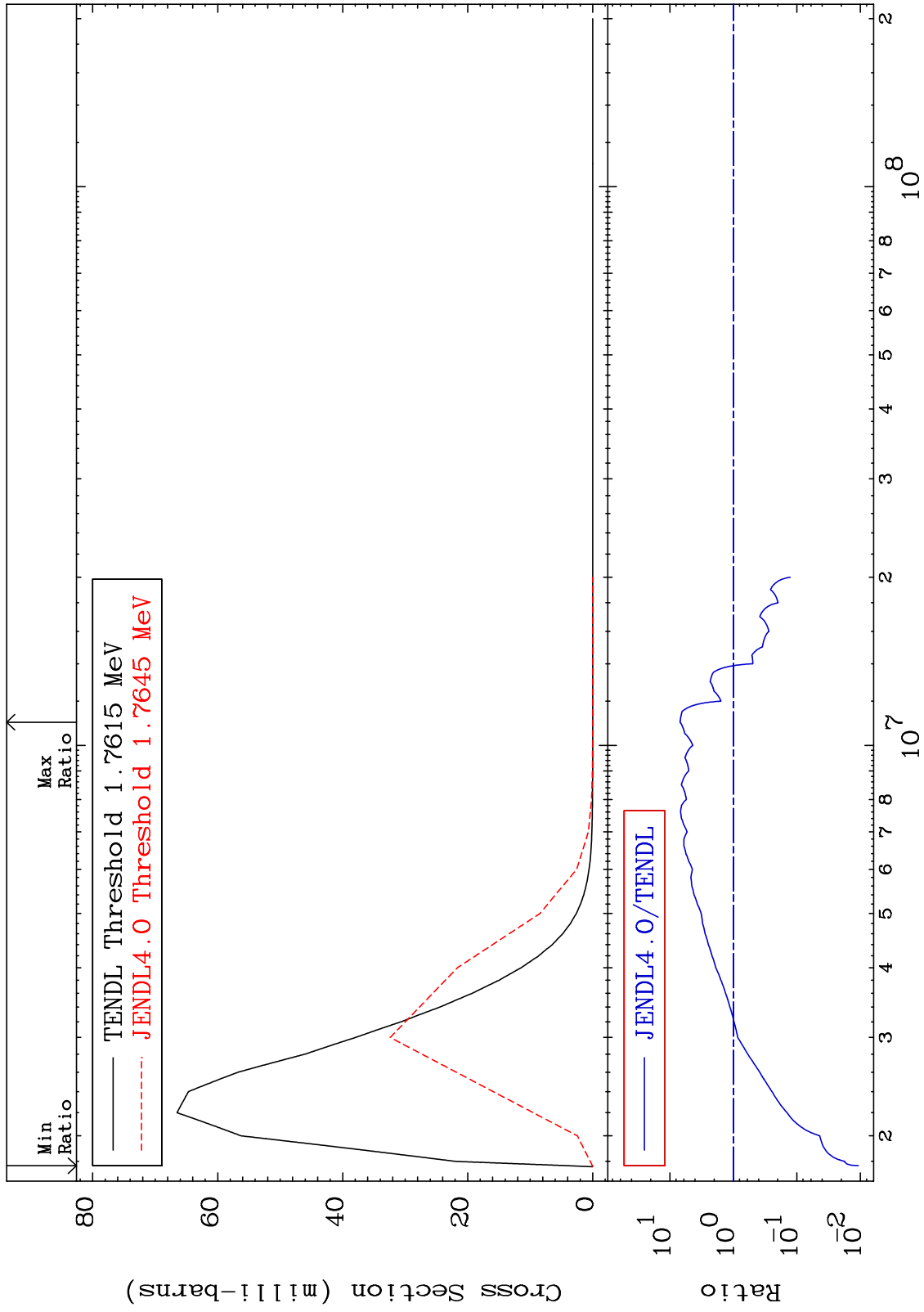
52-Te-122
-100.0 To -4.736%



MAT 5231

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

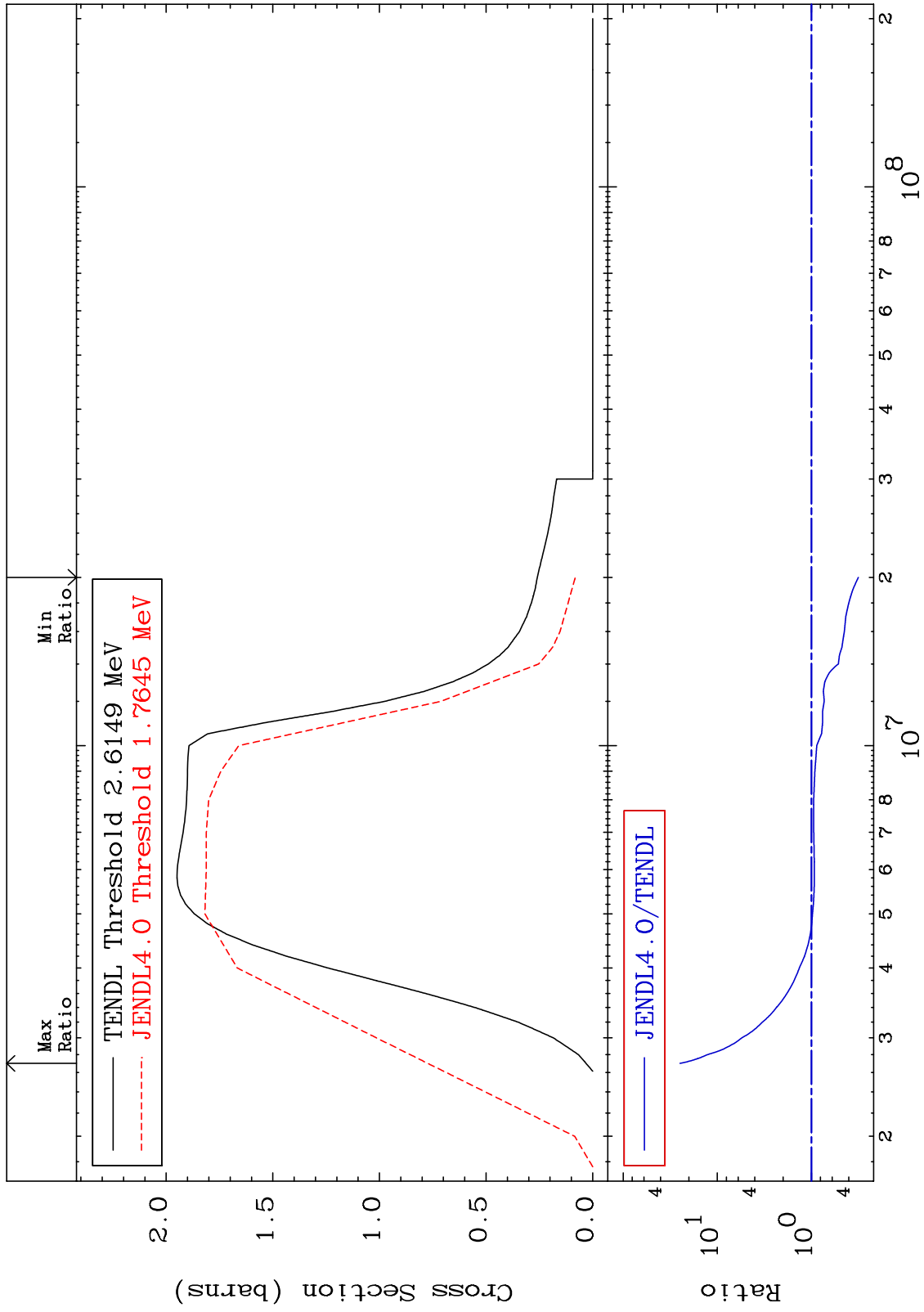
52-Te-122
-98.92 To 591.1 %



MAT 5231

(n, n') Continuum
Cross Section

52-Te-122
-68.37 To 2388. %



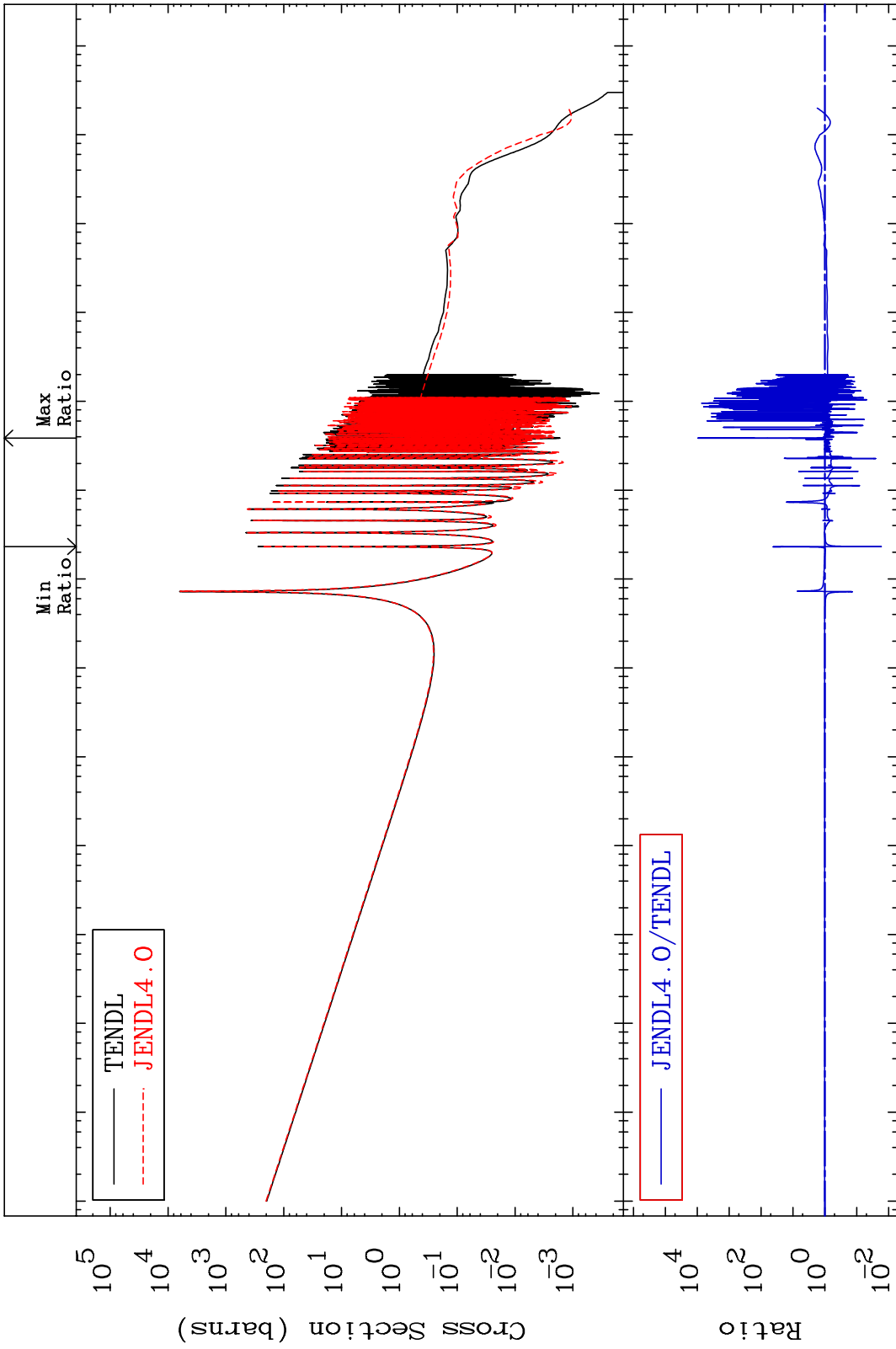
MAT 5231

(n, γ)

52-Te-122

-98.31 To 9999. %

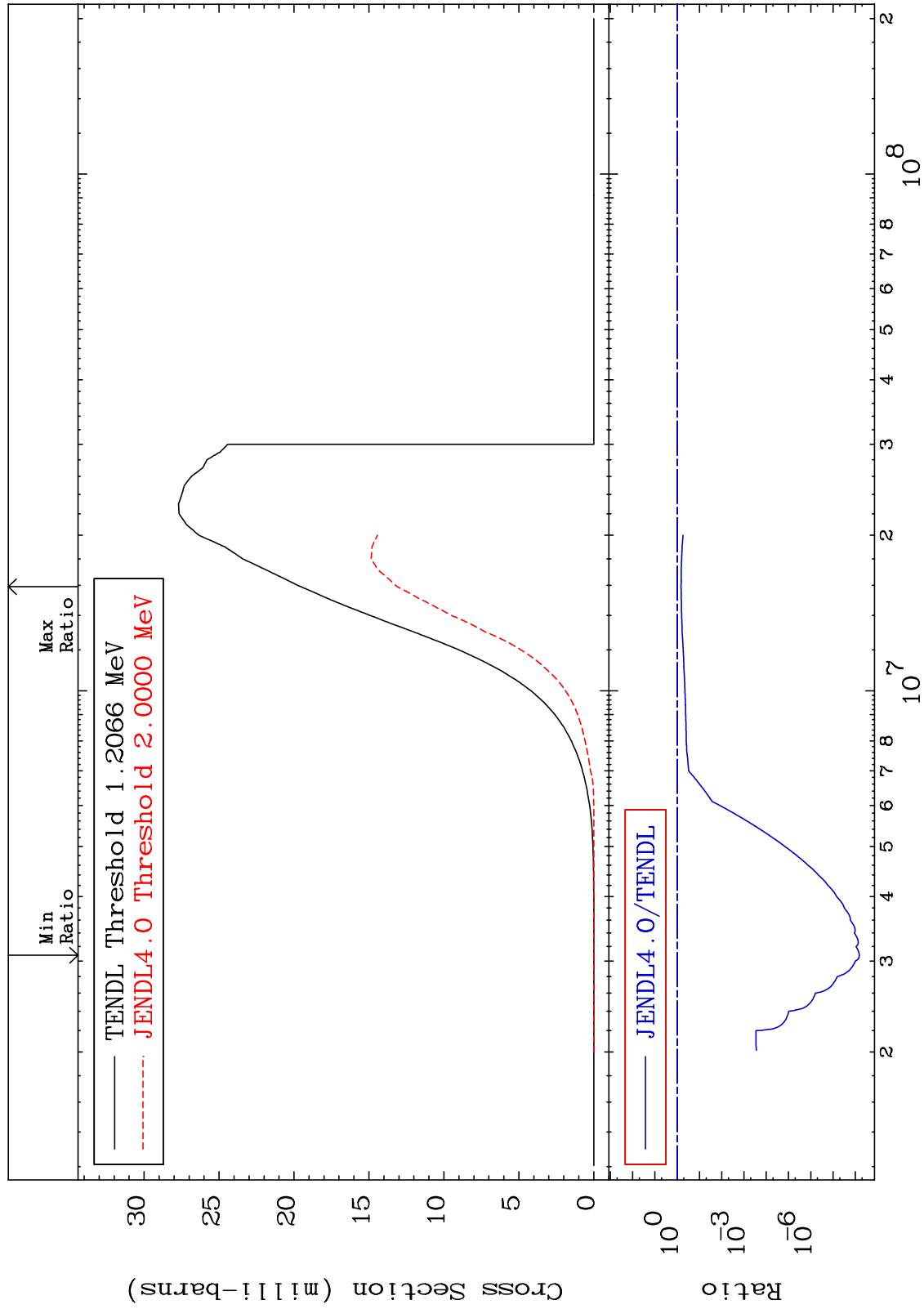
Cross Section



MAT 5231

52-Te-122

(n,p)
Cross Section
-100.0 To -32.89%



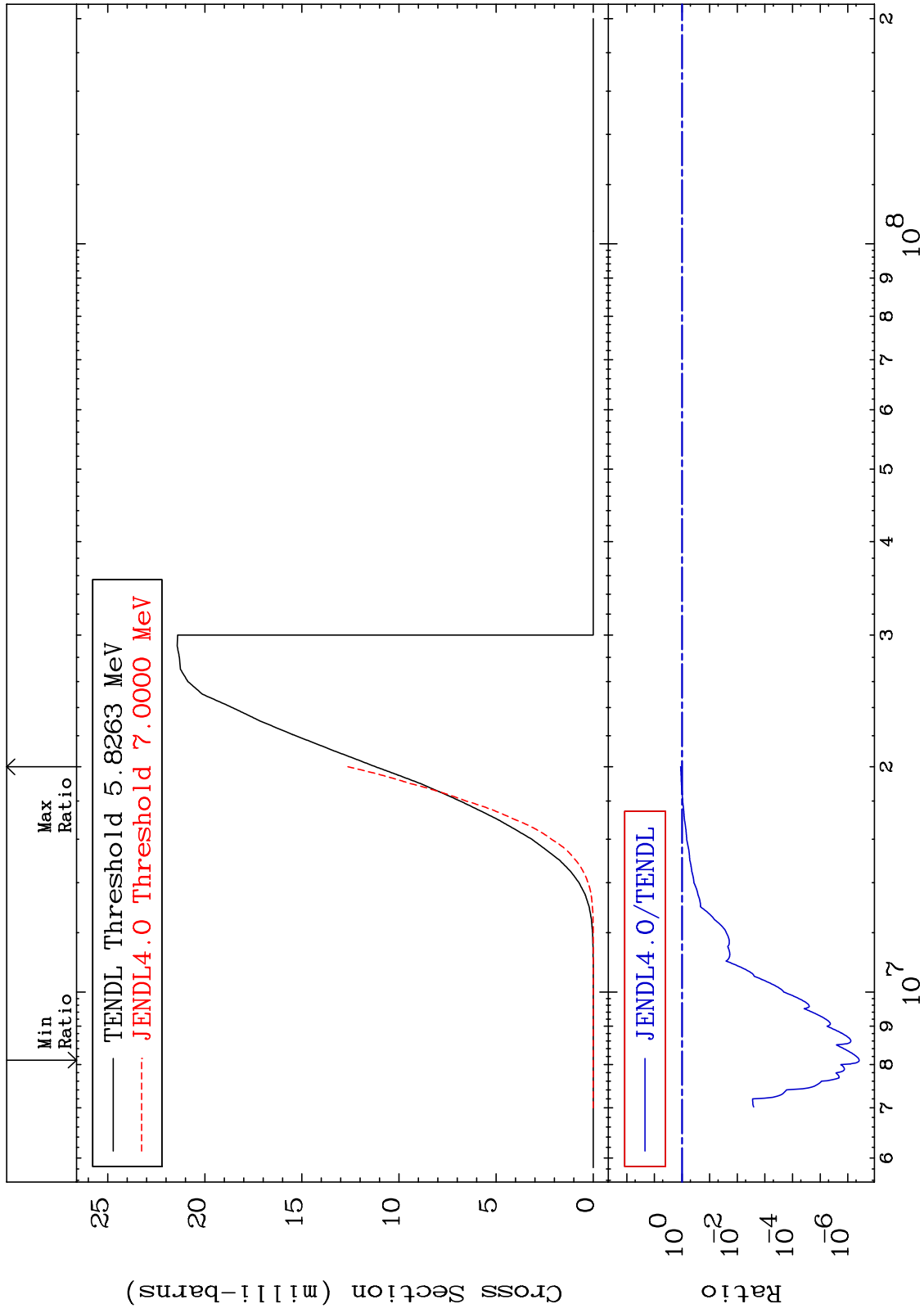
MAT 5231

(n, d)

52-Te-122

Cross Section

-100.0 To 12.67 %



16

Incident Energy (eV)

52-Te-122

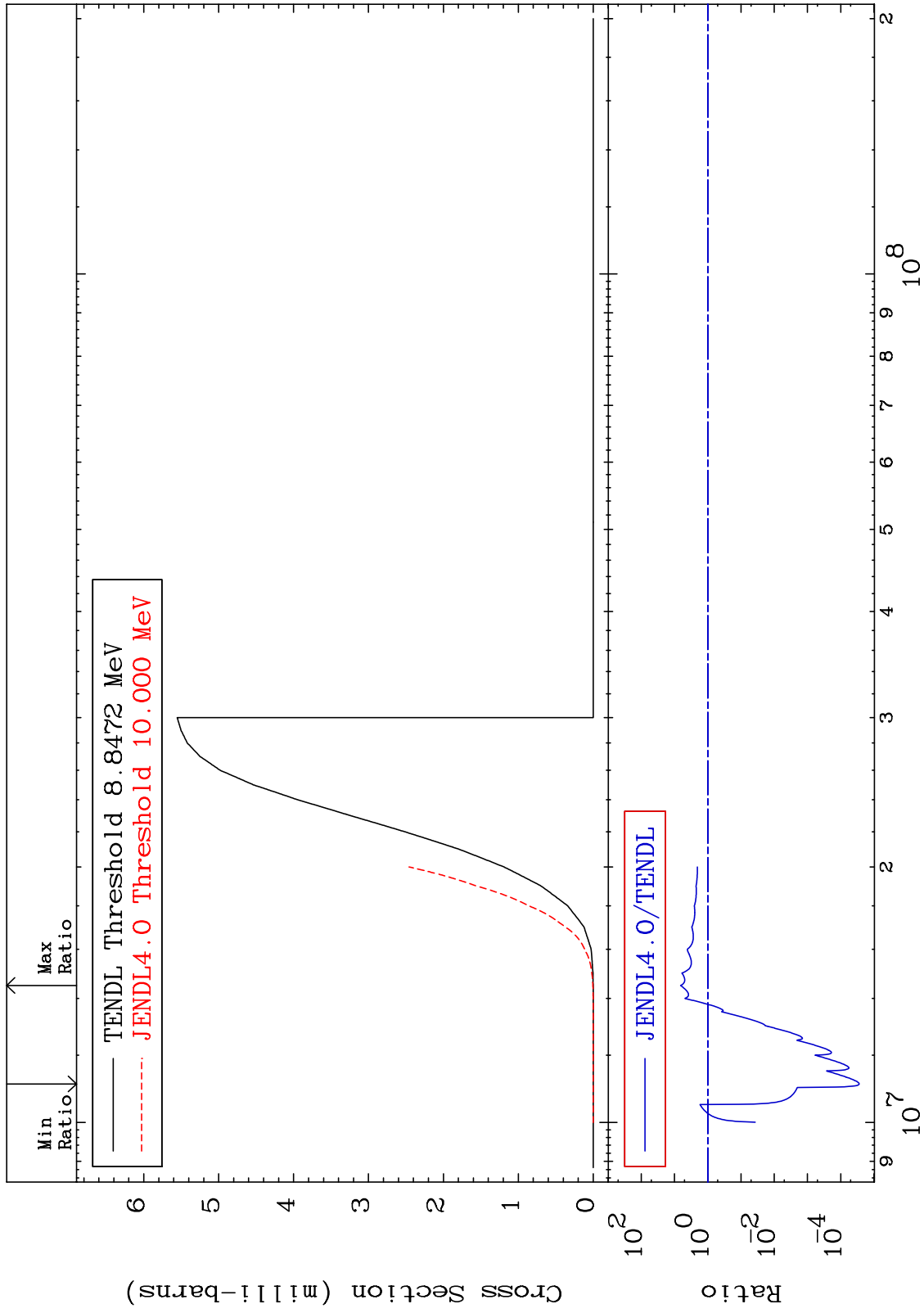
MAT 5231

(n, t)

52-Te-122

Cross Section

-100.0 To 554.4 %



17

Incident Energy (eV)

52-Te-122

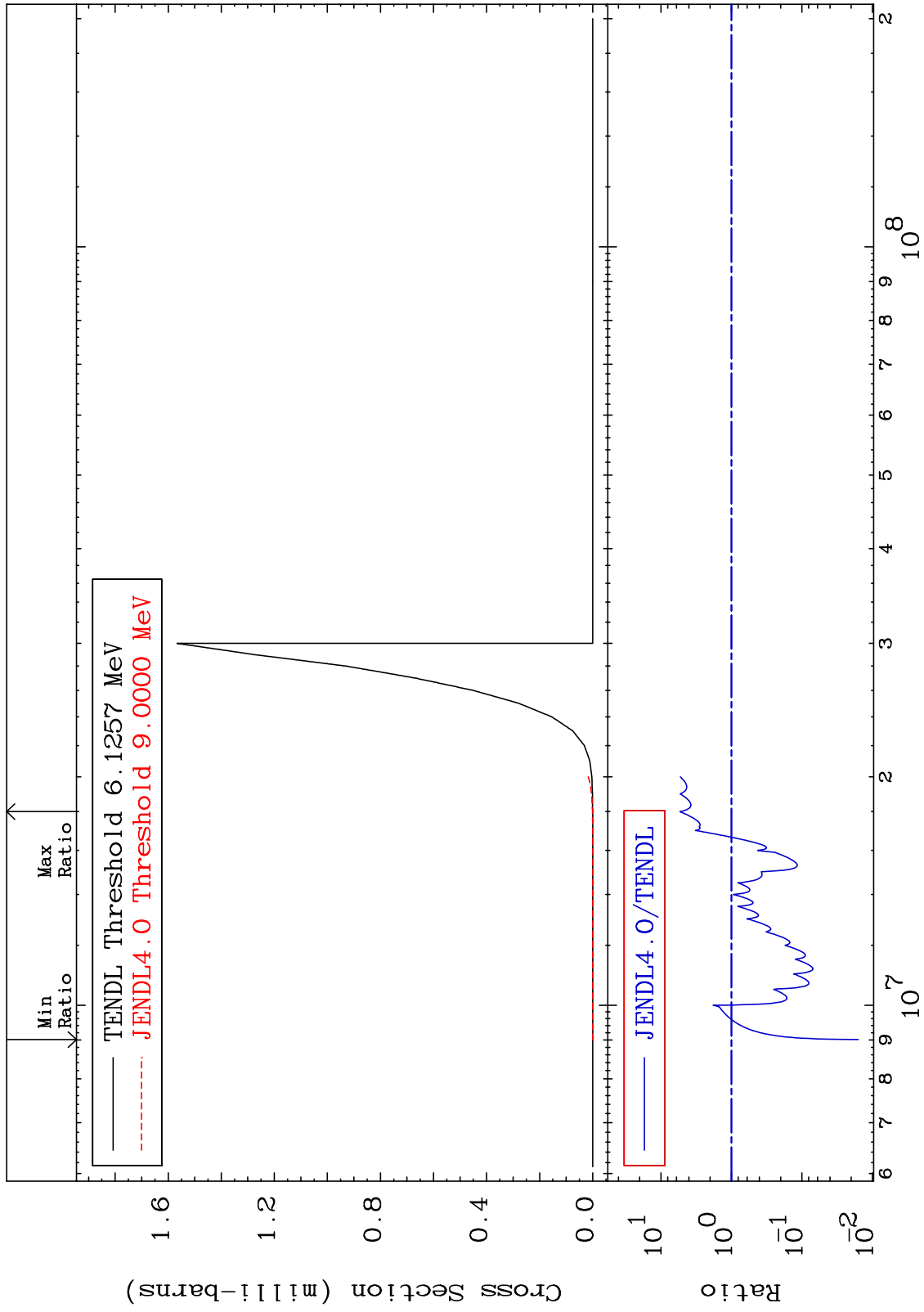
MAT 5231

(n, He-3)

52-Te-122

Cross Section

-98.42 To 435.2 %



18

Incident Energy (eV)

52-Te-122

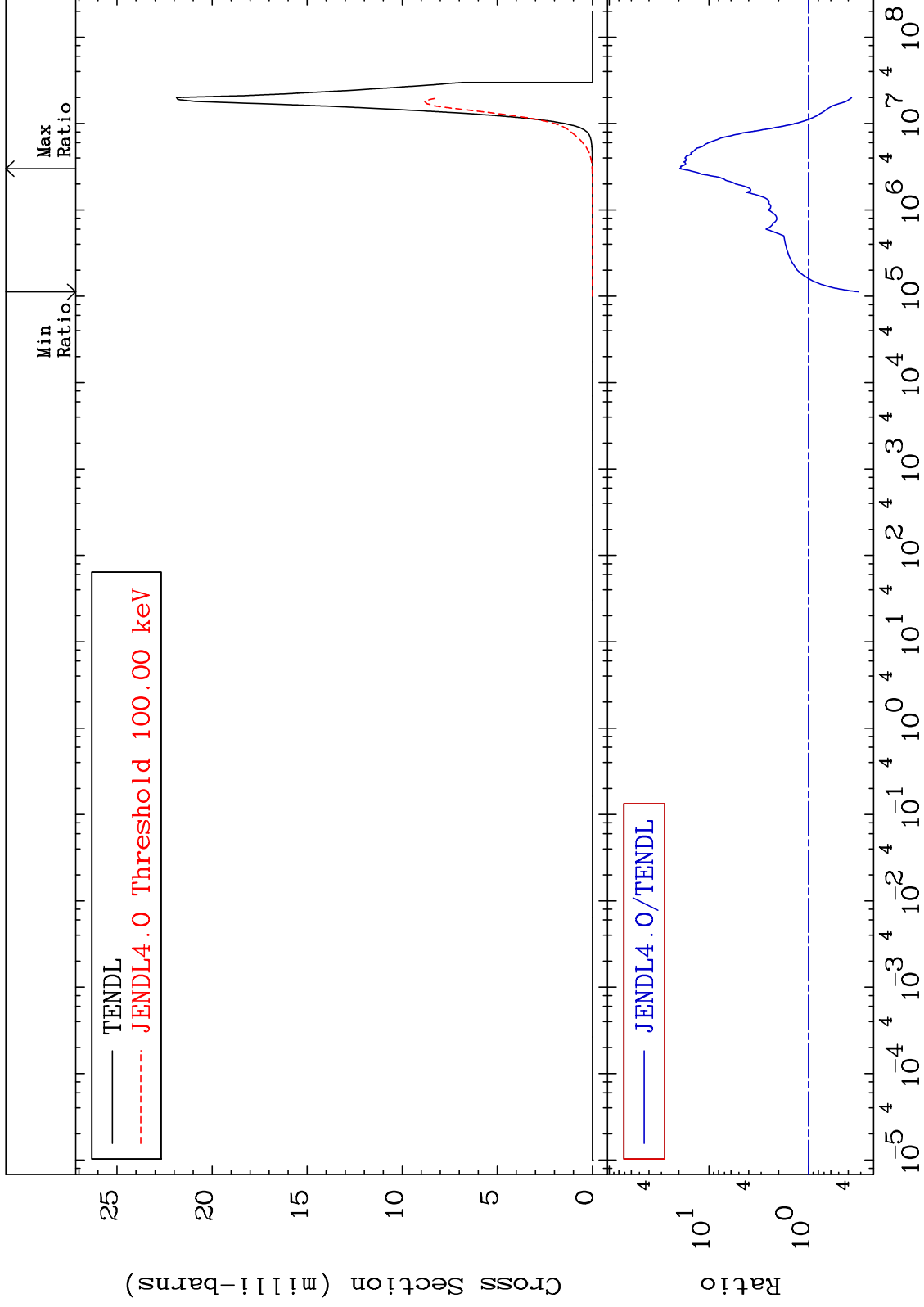
MAT 5231

(n, α)

52-Te-122

Cross Section

-68.27 To 1860. %



19

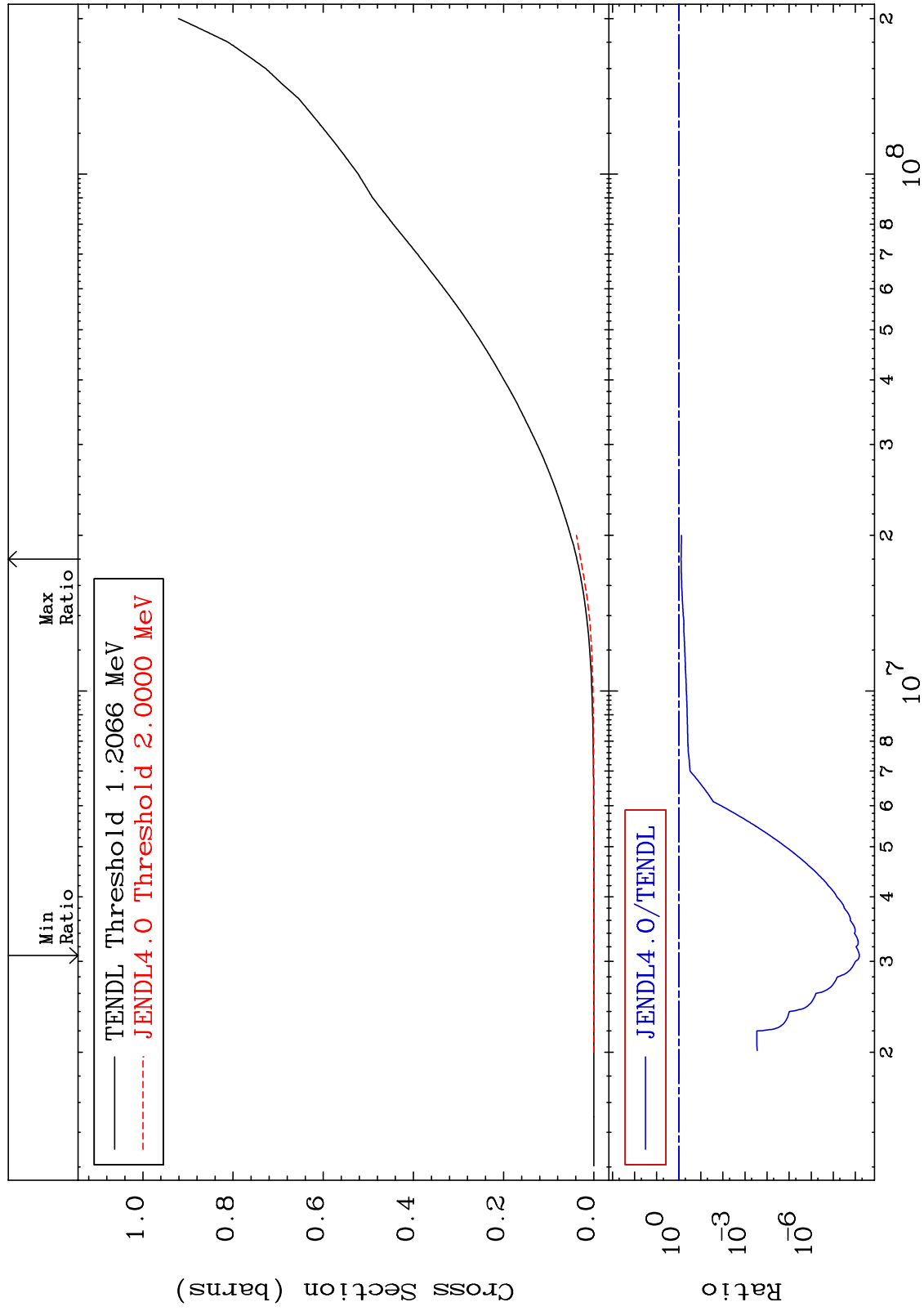
Incident Energy (eV)

52-Te-122

MAT 5231

Hydrogen Production
Cross Section

$^{52}\text{Te-122}$
-100.0 To -21.51%



20

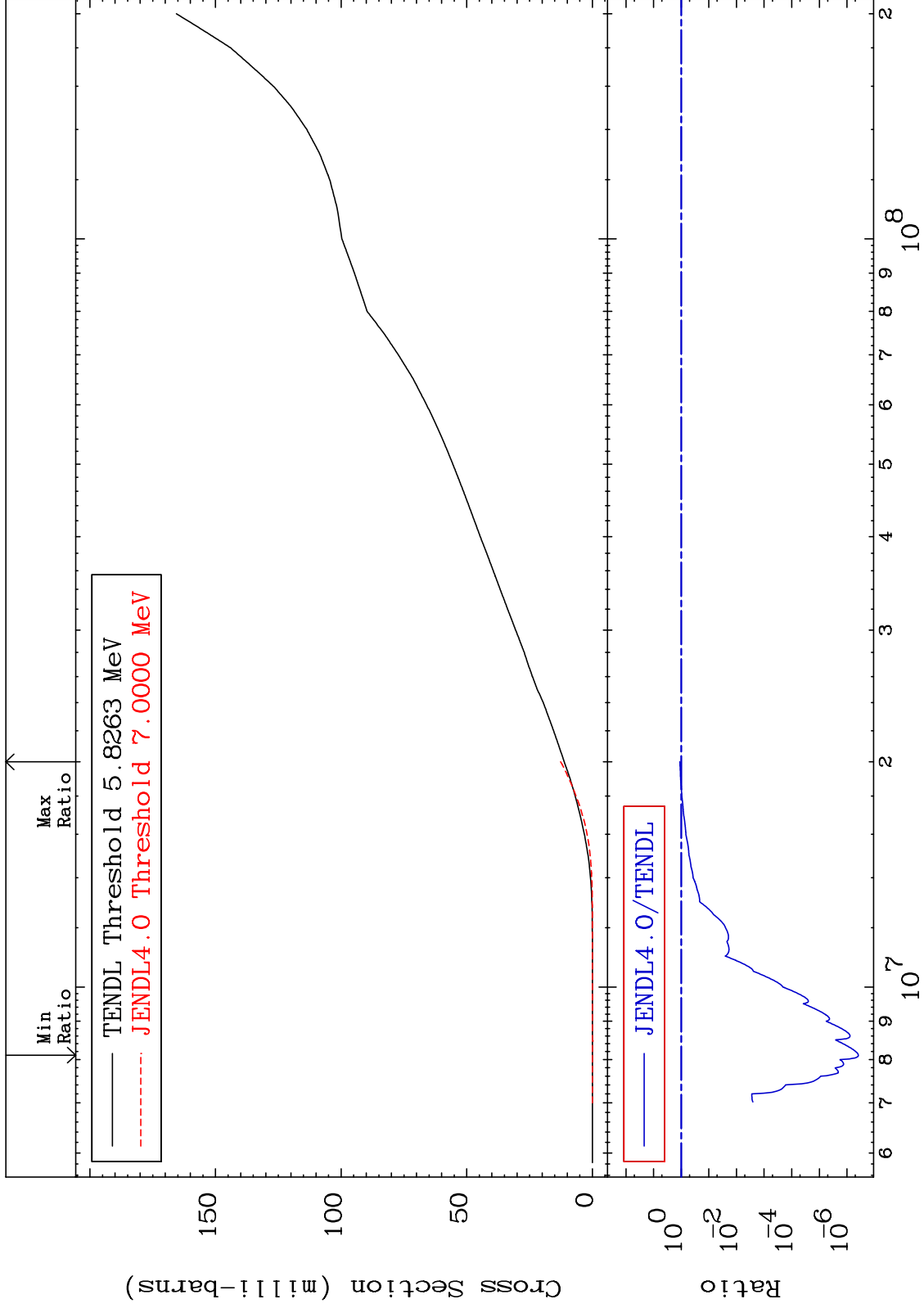
Incident Energy (eV)

$^{52}\text{Te-122}$

MAT 5231

Deuterium Production
Cross Section

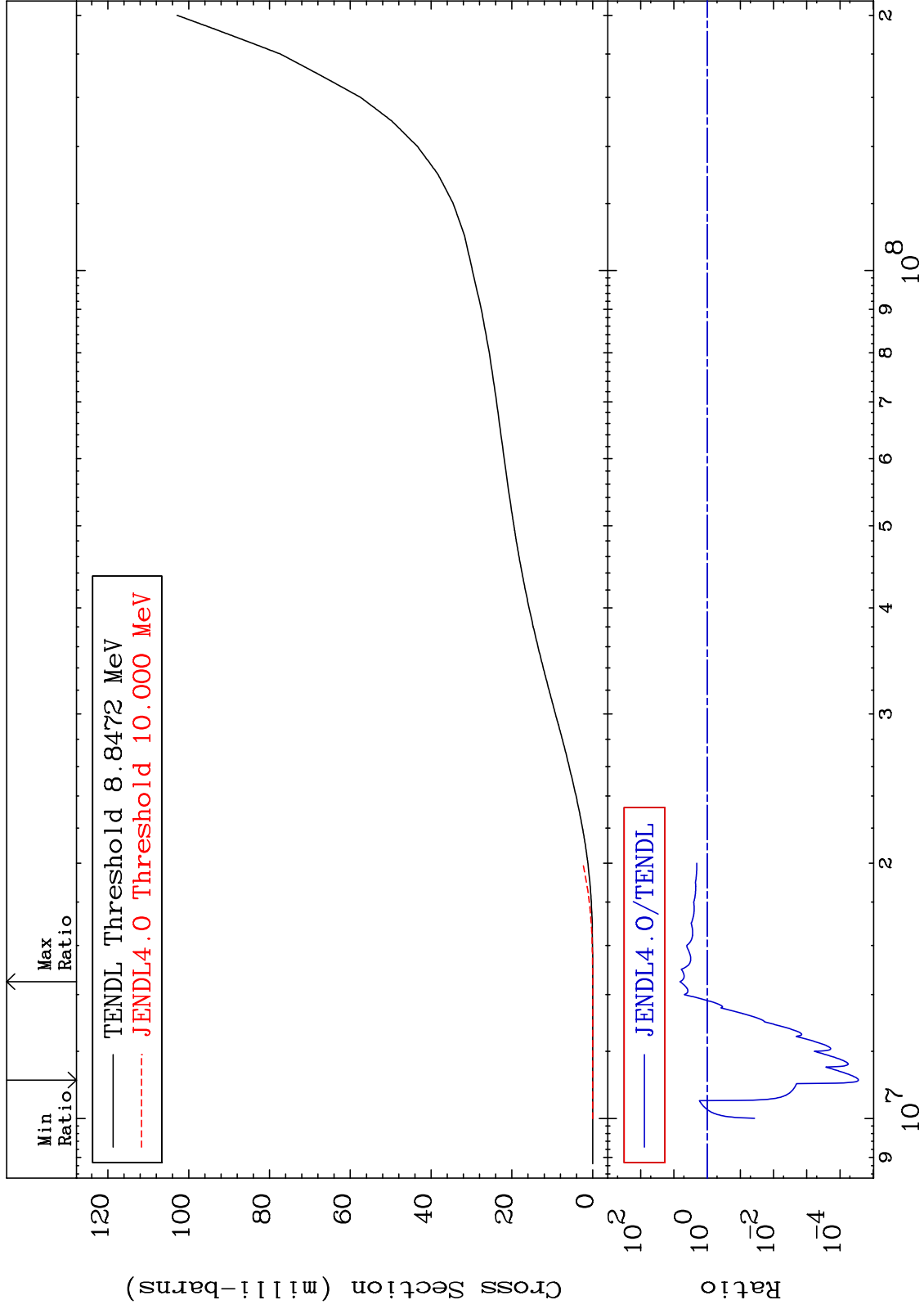
52-Te-122
-100.0 To 12.65 %



MAT 5231

Tritium Production
Cross Section

⁵²Te-122
-100.0 To 554.4 %



22

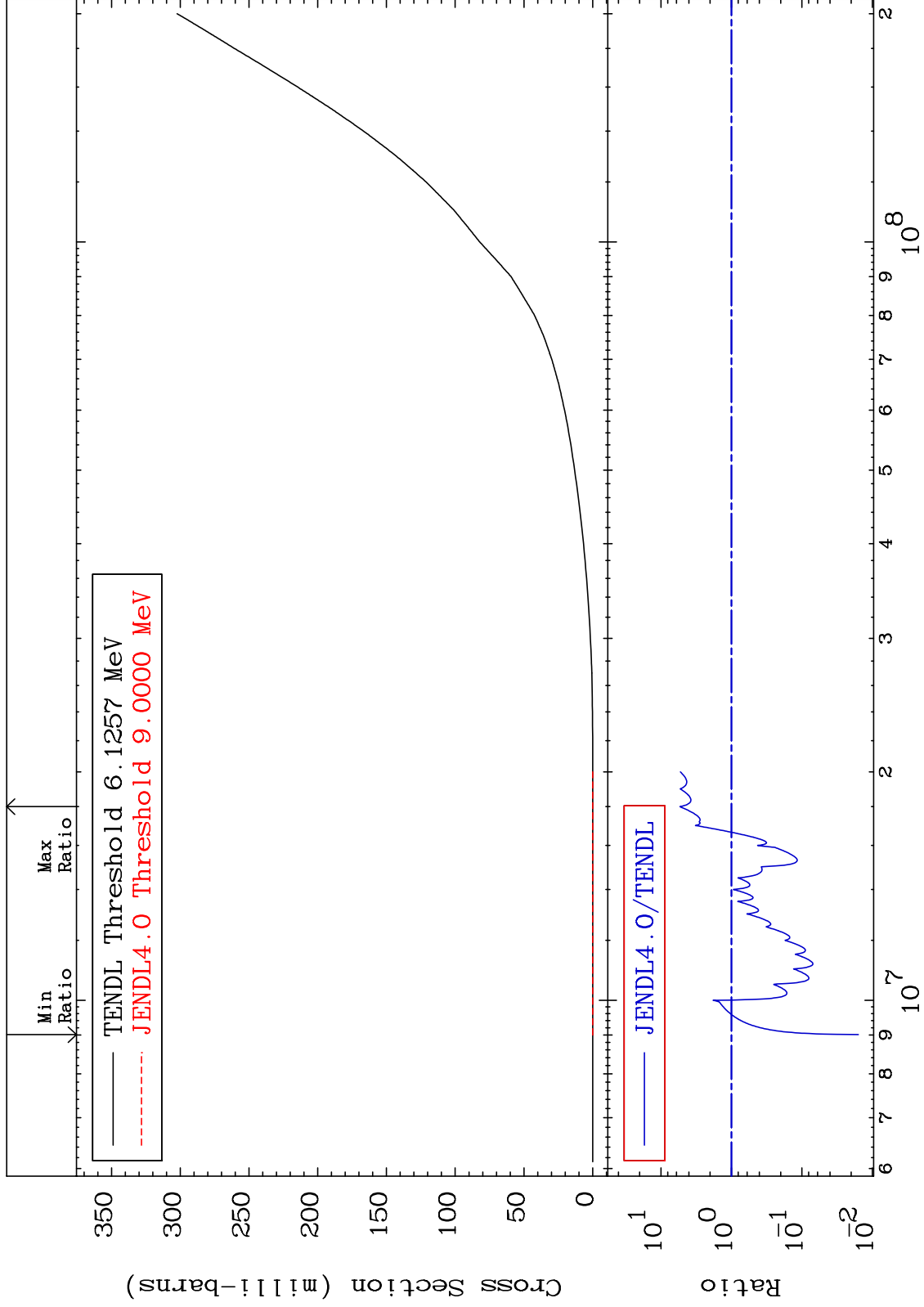
Incident Energy (eV)

⁵²Te-122

MAT 5231

He-3 Production
Cross Section

52-Te-122
-98.42 To 435.2 %



23

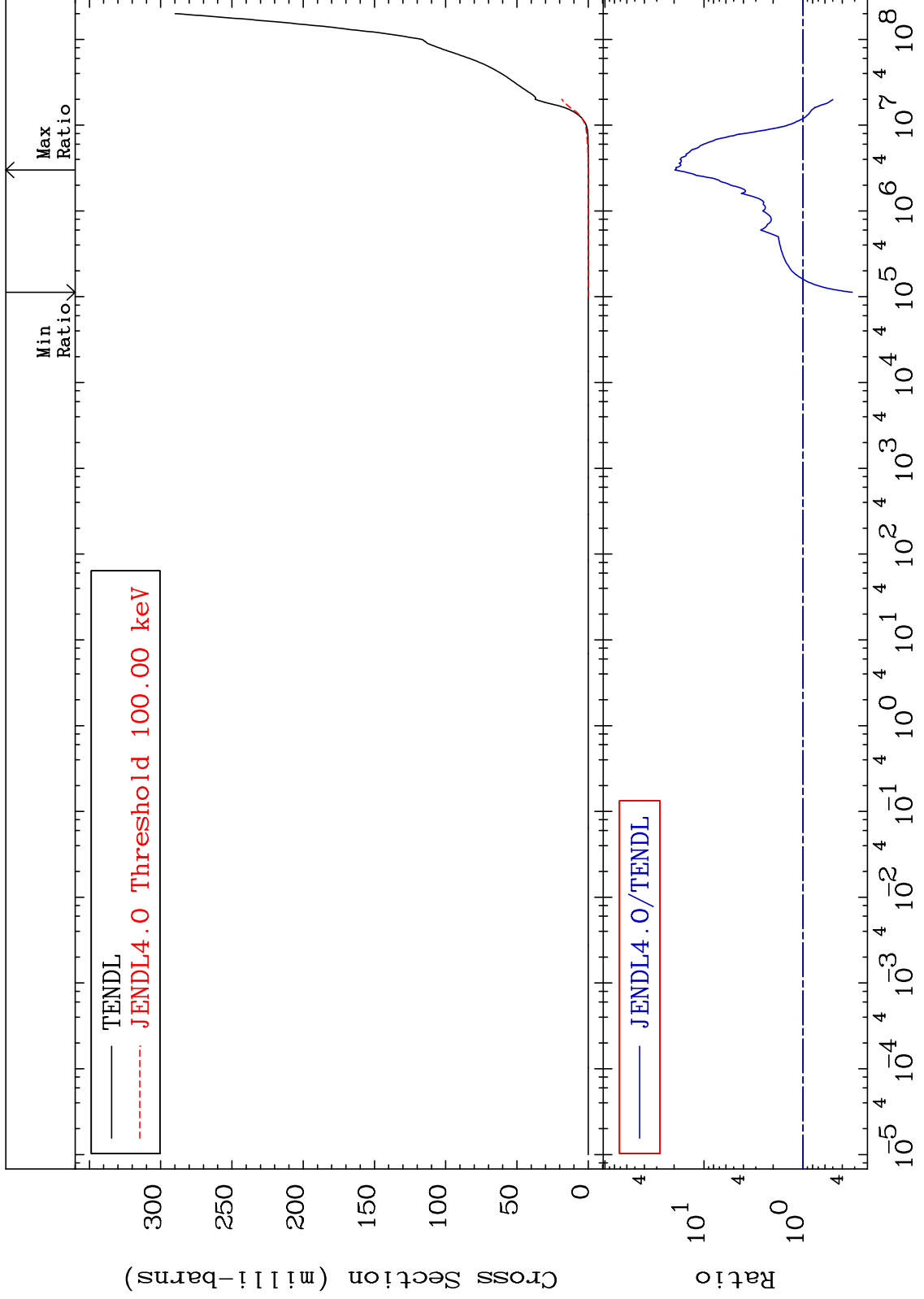
Incident Energy (eV)

52-Te-122

MAT 5231

He-4 Production
Cross Section

52-Te-122
-68.27 To 1860. %



24

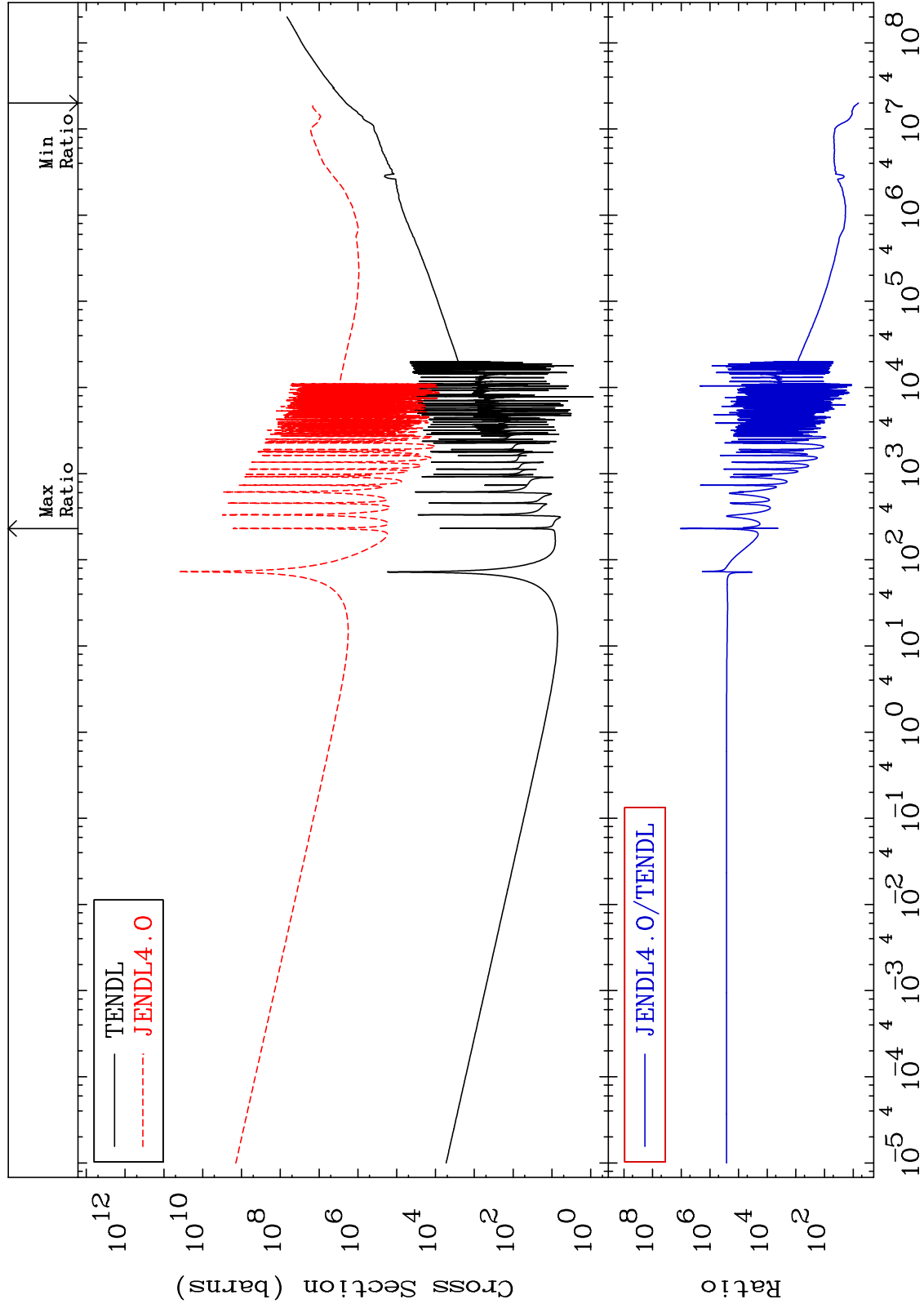
Incident Energy (eV)

52-Te-122

MAT 5231

Kerma total (eV-barns)
Cross Section

52-Te-122
549.9 To 9999. %



25

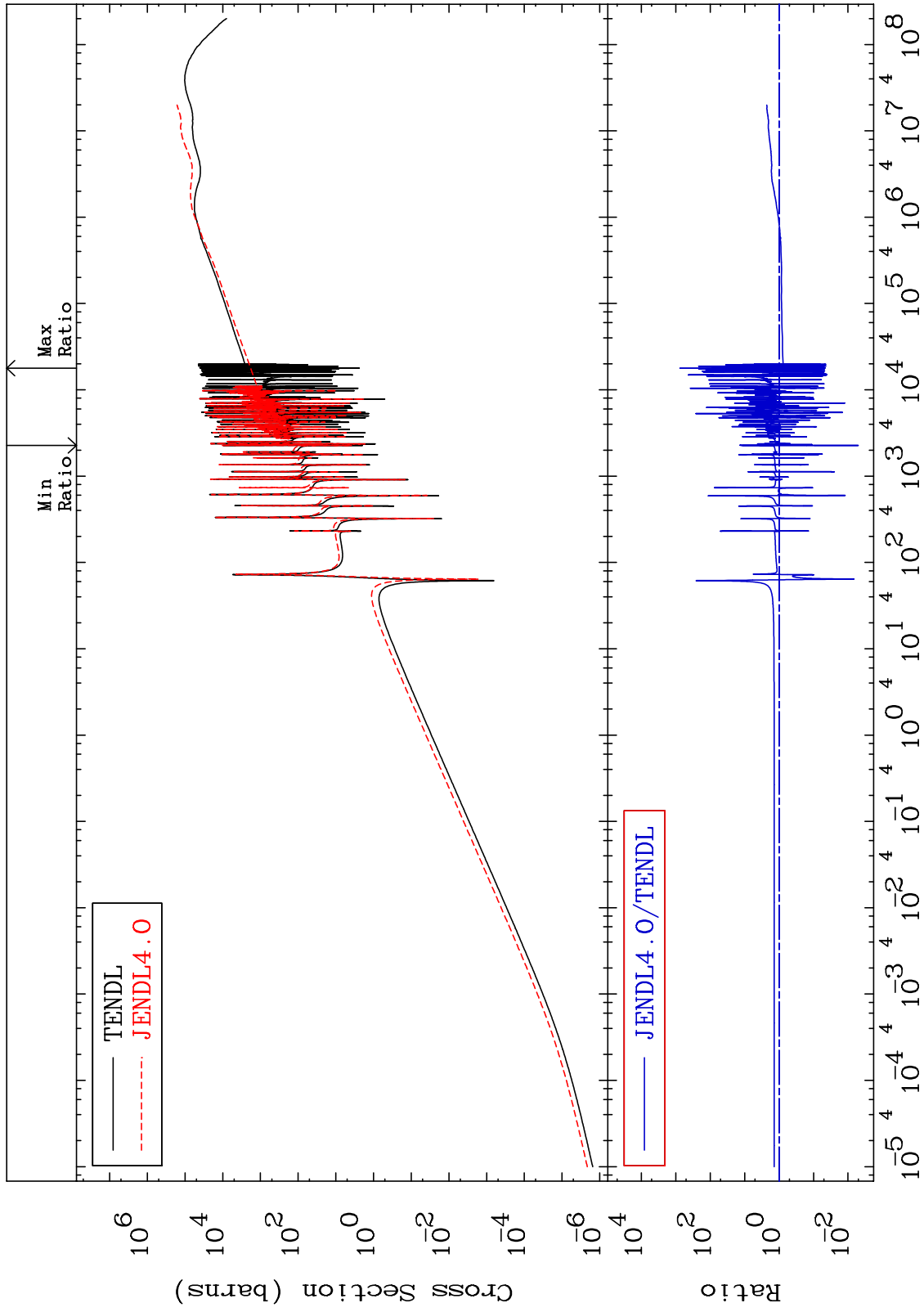
Incident Energy (eV)

52-Te-122

MAT 5231

Kerma elastic
Cross Section

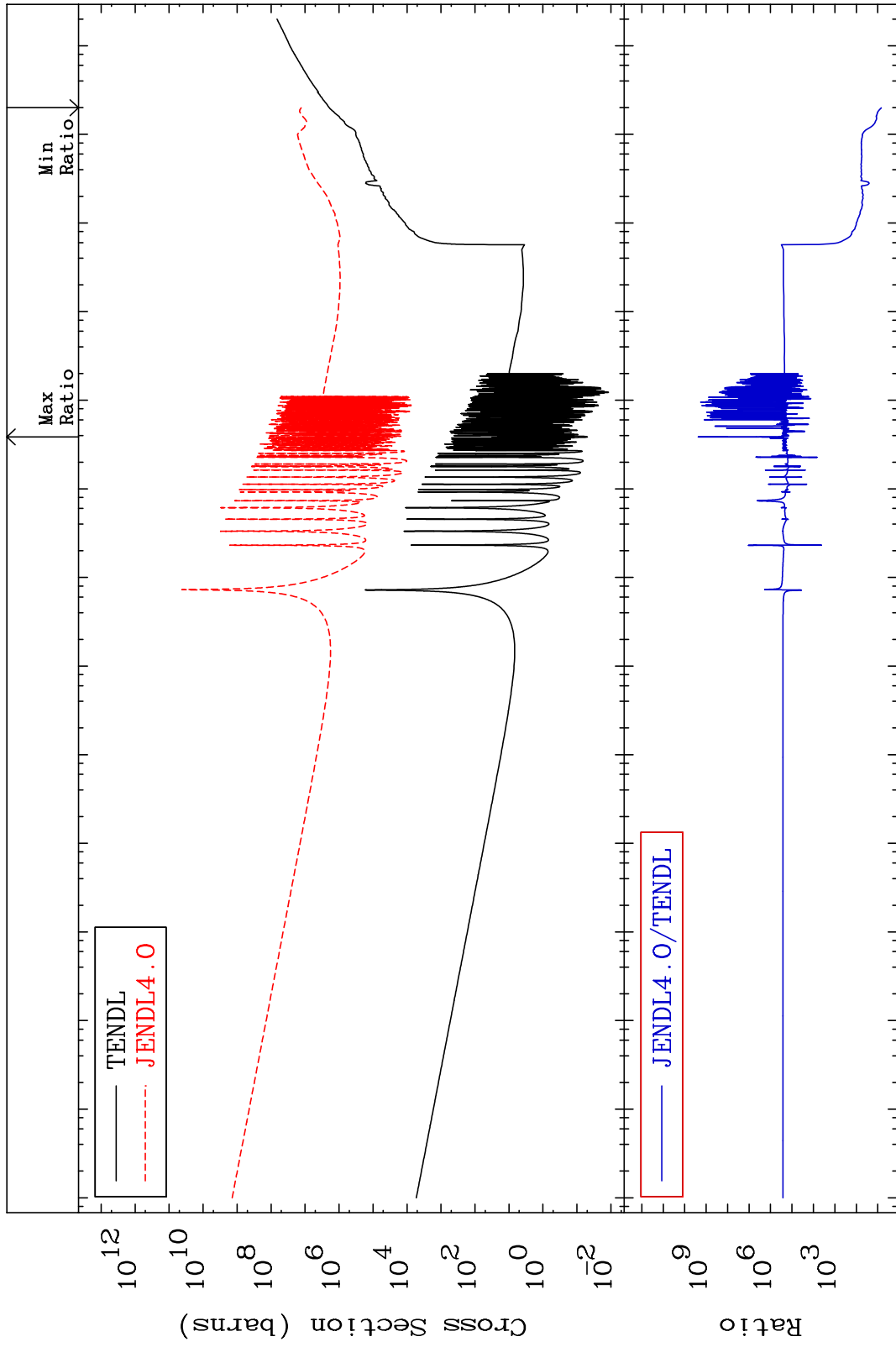
52-Te-122
-99.50 To 9999. %



MAT 5231

Kerma non-elastic (all but mt2)
Cross Section

52-Te-122
565.5 To 9999. %



27

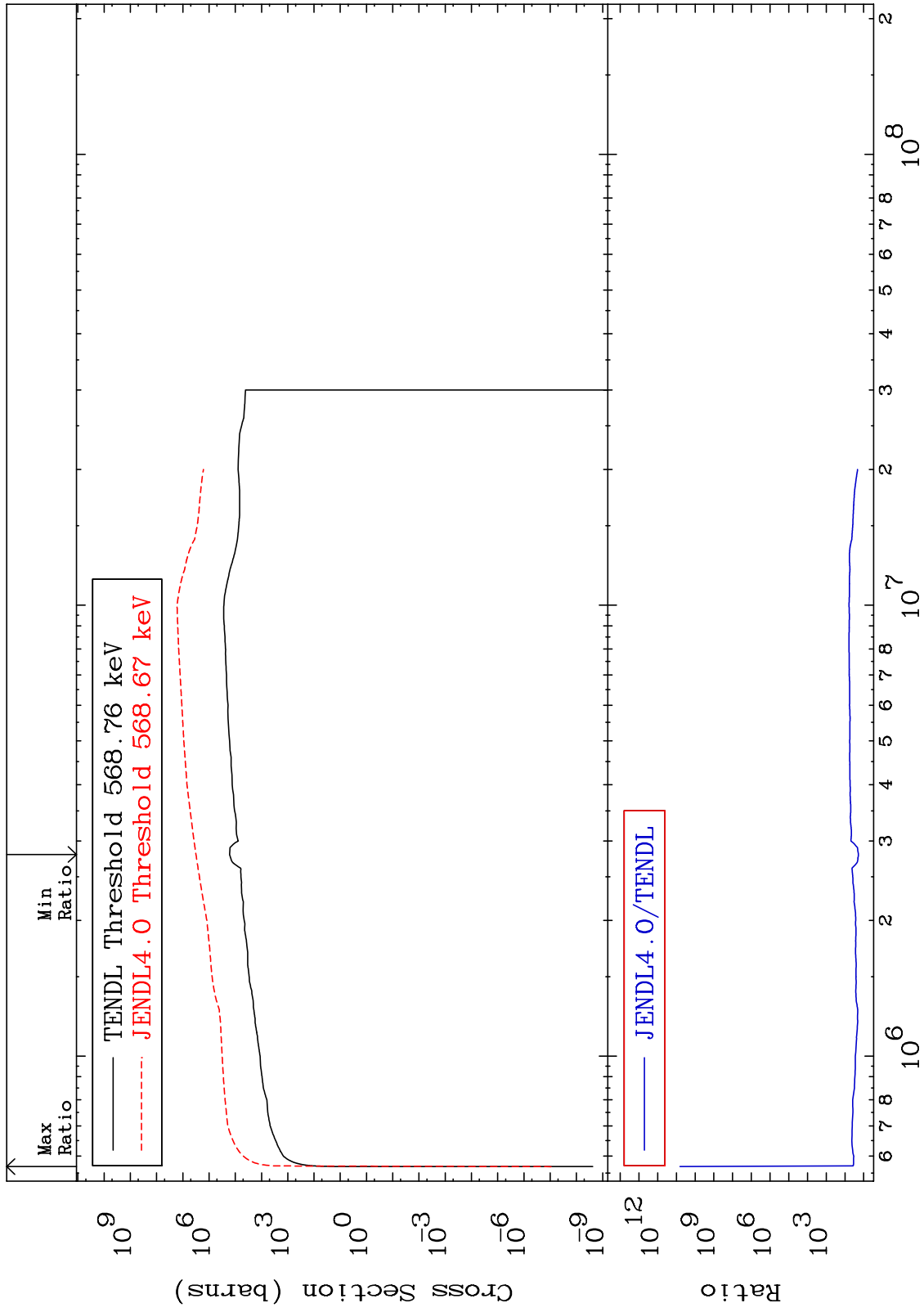
Incident Energy (eV)

52-Te-122

MAT 5231

Kerma inelastic (mt51-91)
Cross Section

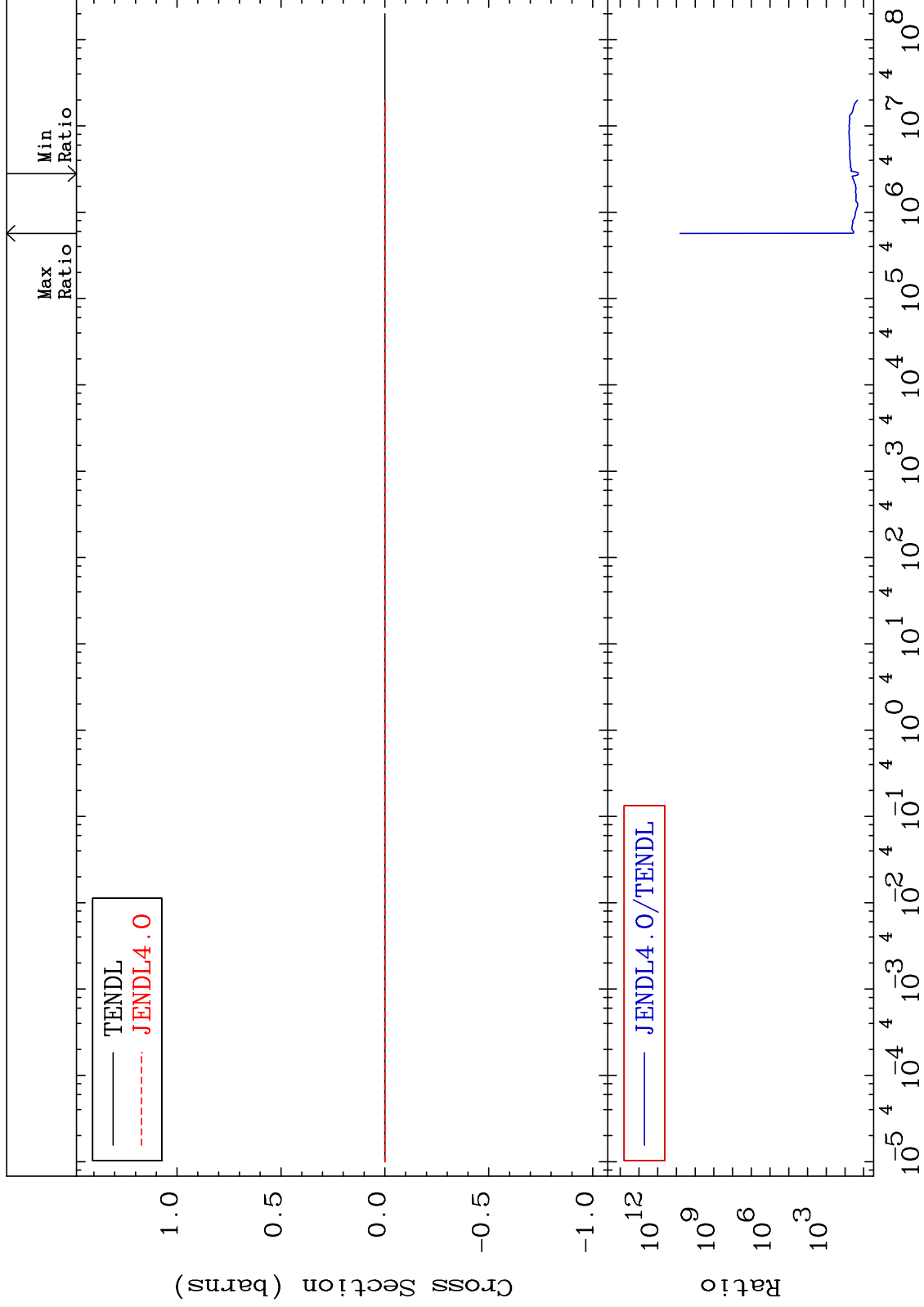
52-Te-122
1812. To 9999. %



MAT 5231

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

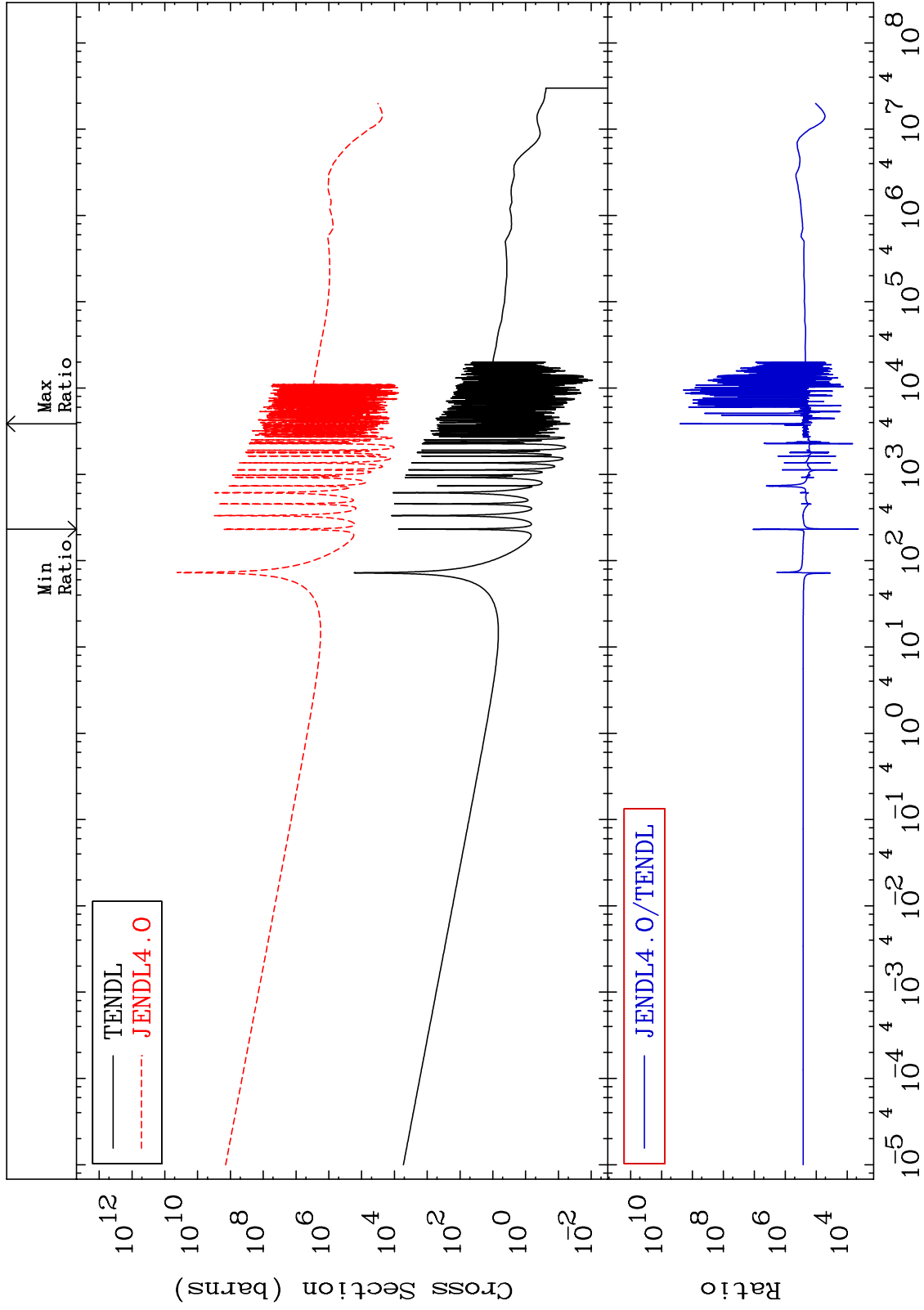
52-Te-122
1812. To 9999. %



MAT 5231

Kerma capture (mt102)
Cross Section

52-Te-122
9999. To 9999. %



30

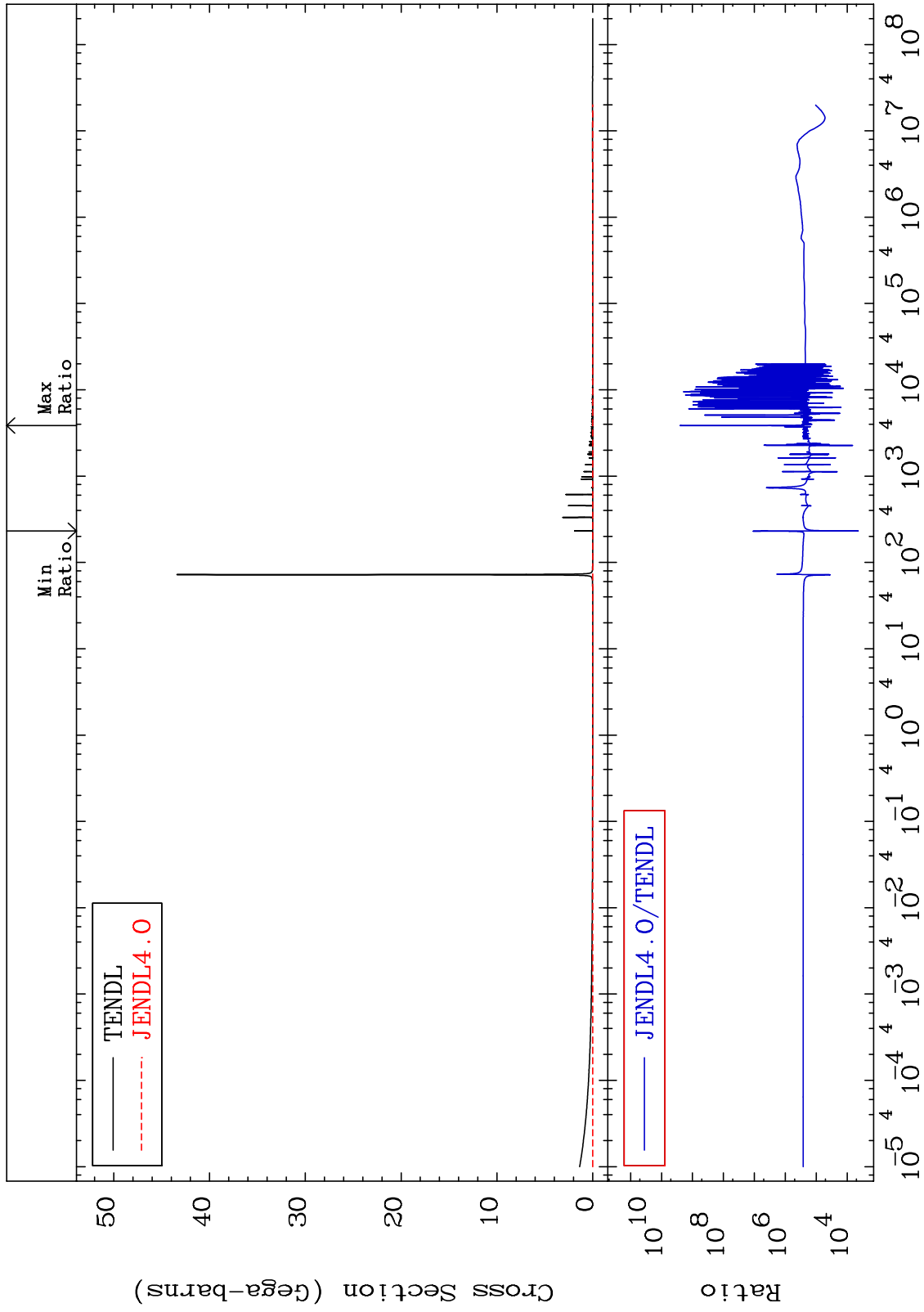
Incident Energy (eV)

52-Te-122

MAT 5231

Total photon (eV-barns)
Cross Section

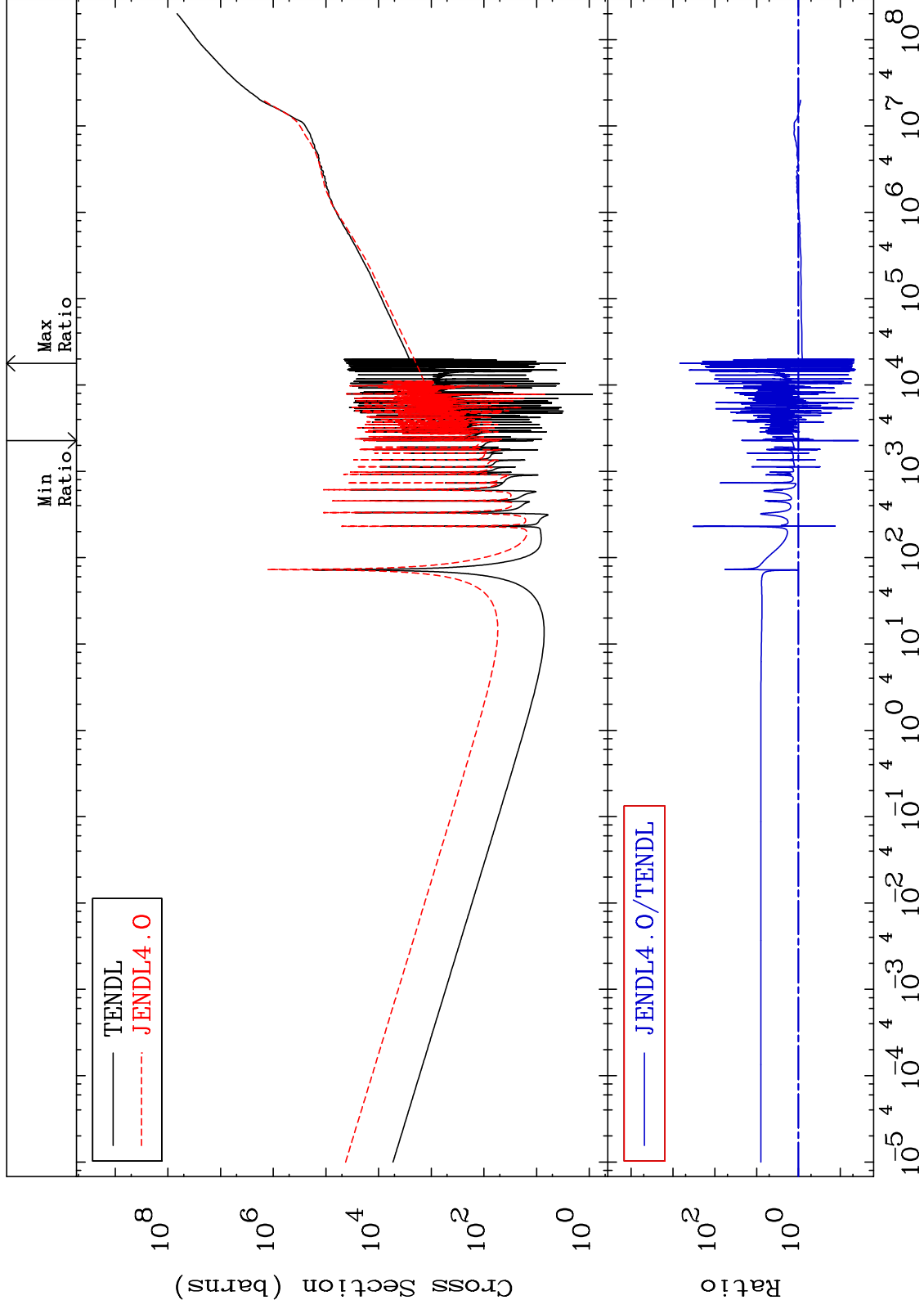
52-Te-122
9999. To 9999. %



MAT 5231

Total kinematic kerma (high limit)
Cross Section

52-Te-122
-96.31 To 9999. %



32

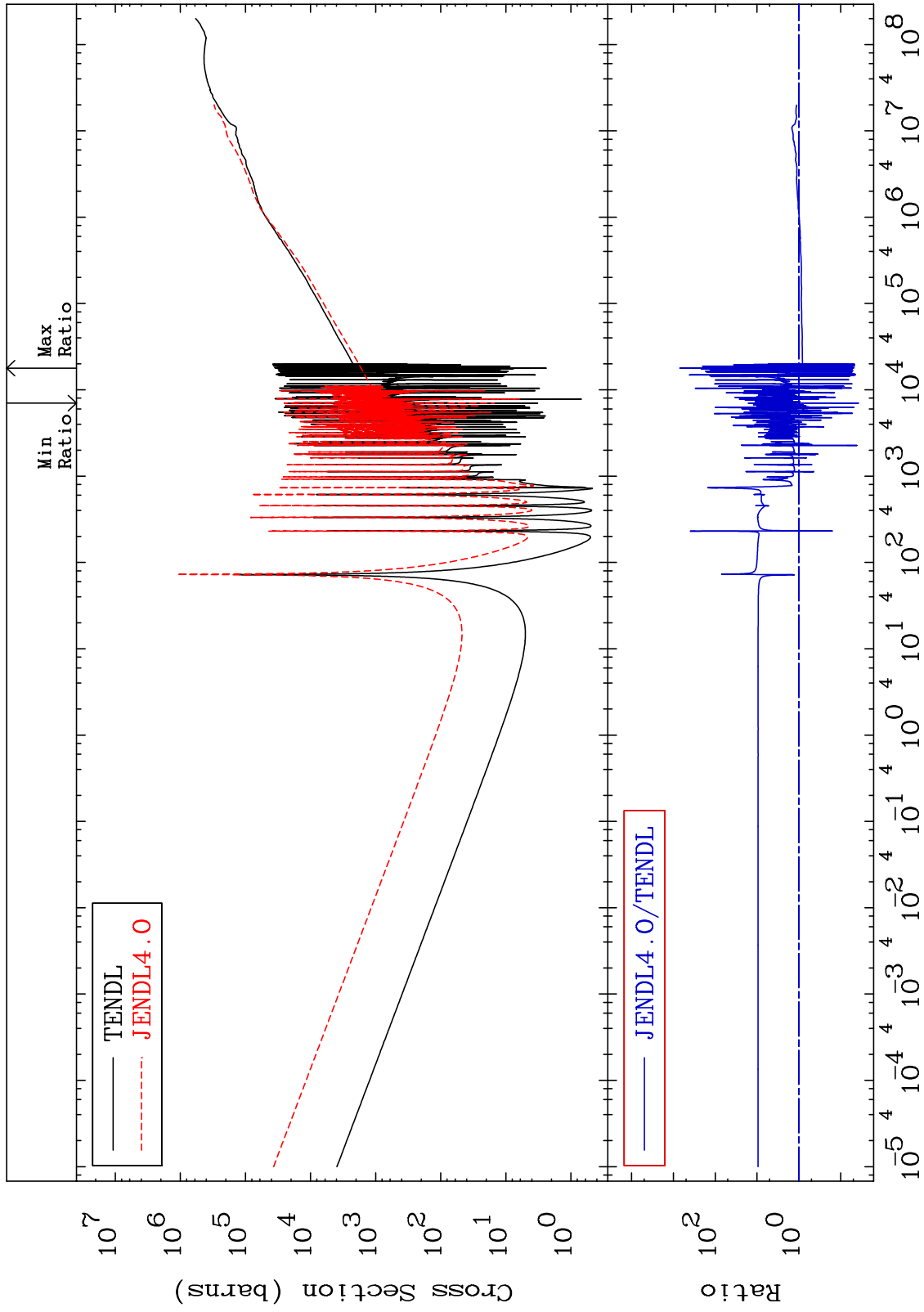
Incident Energy (eV)

52-Te-122

MAT 5231

Dpa total (eV-barns)
Cross Section

52-Te-122
-96.24 To 9999. %



33

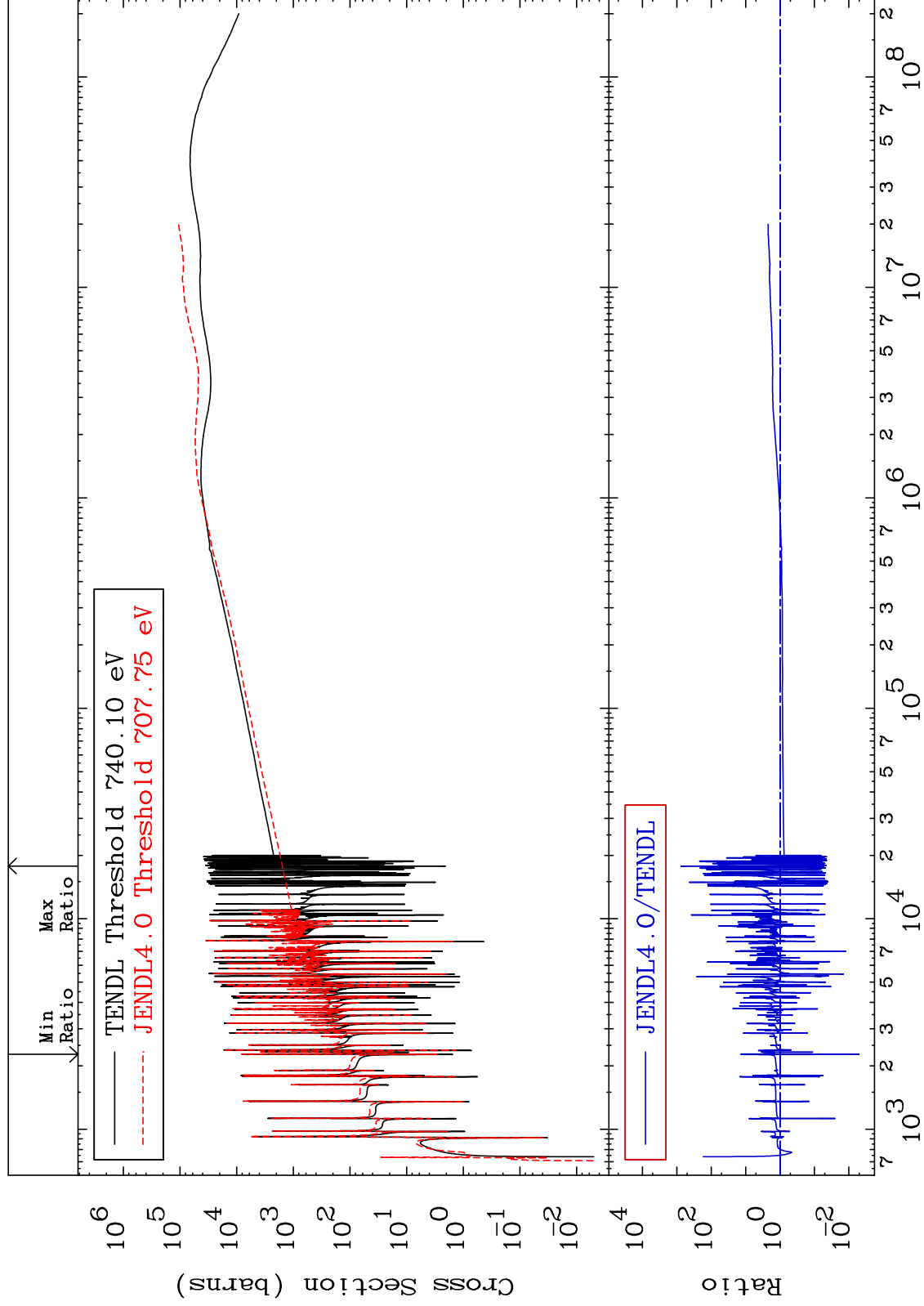
Incident Energy (eV)

52-Te-122

MAT 5231

Dpa elastic (mt2)
Cross Section

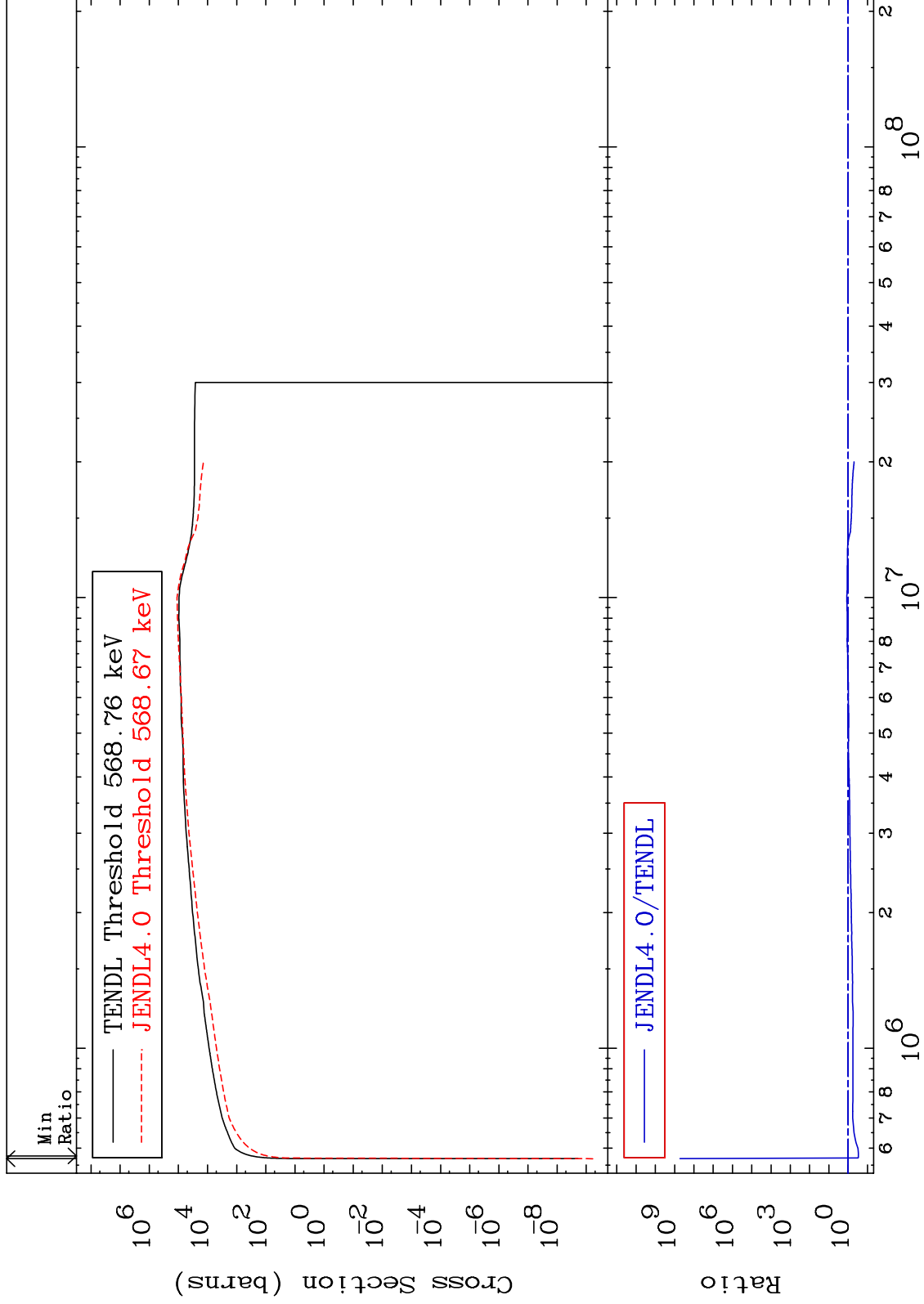
52-Te-122
-99.50 To 9999. %



MAT 5231

Dpa inelastic (mt51-91)
Cross Section

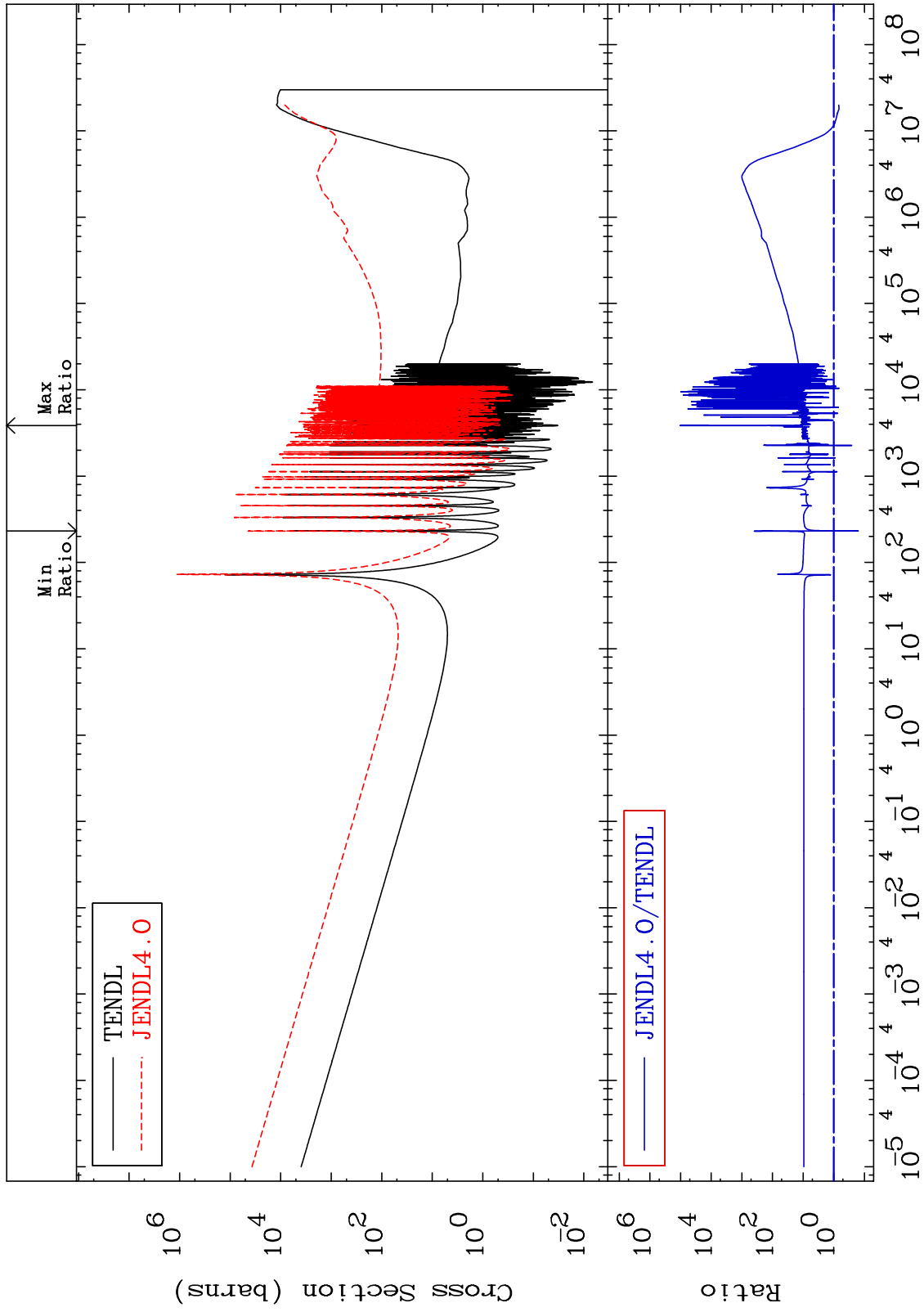
52-Te-122
-70.68 To 9999. %



MAT 5231

Dpa disappearance (mt102 -120)
Cross Section

52-Te-122
-84.34 To 9999. %



36

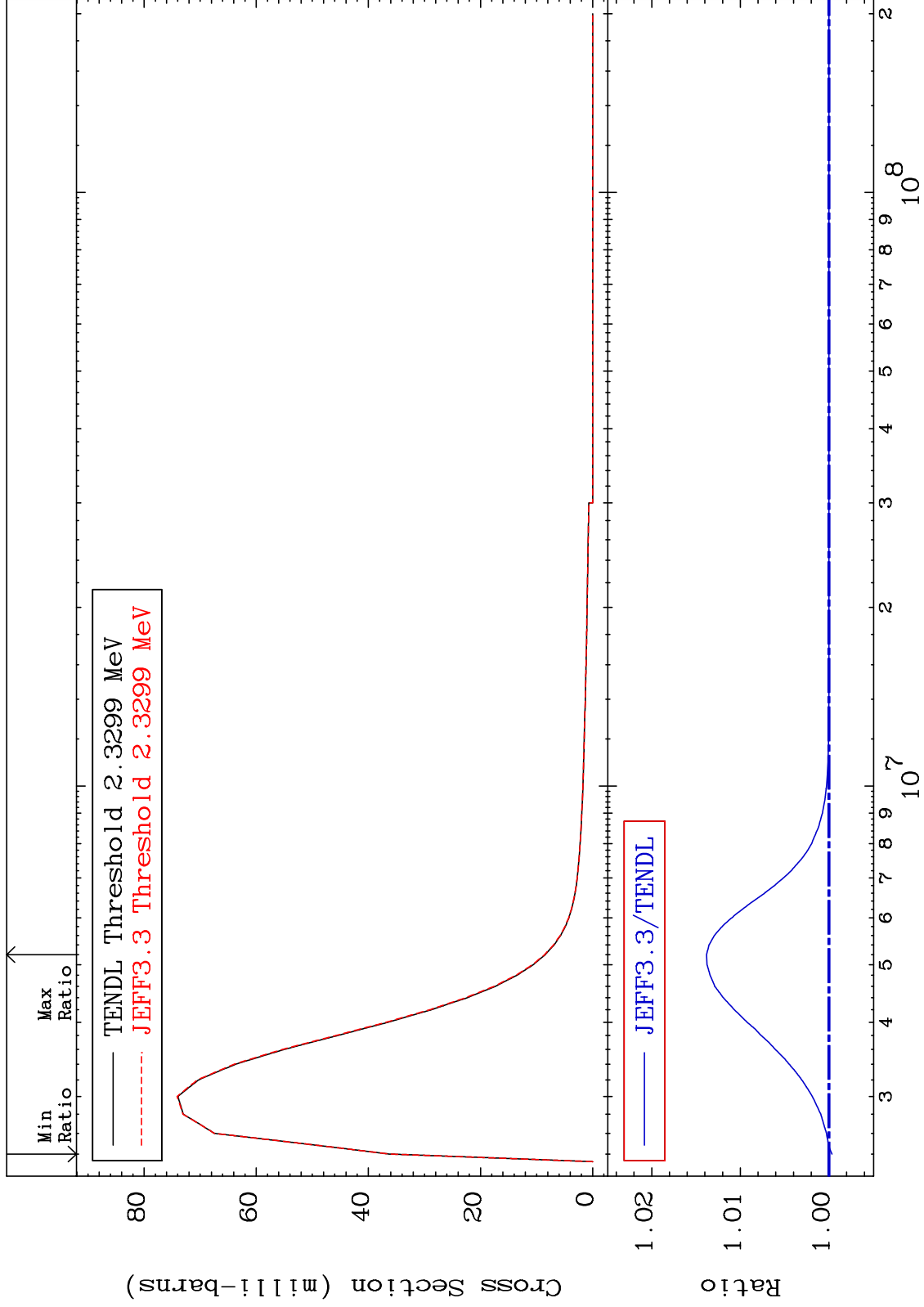
Incident Energy (eV)

52-Te-122

MAT 5231

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

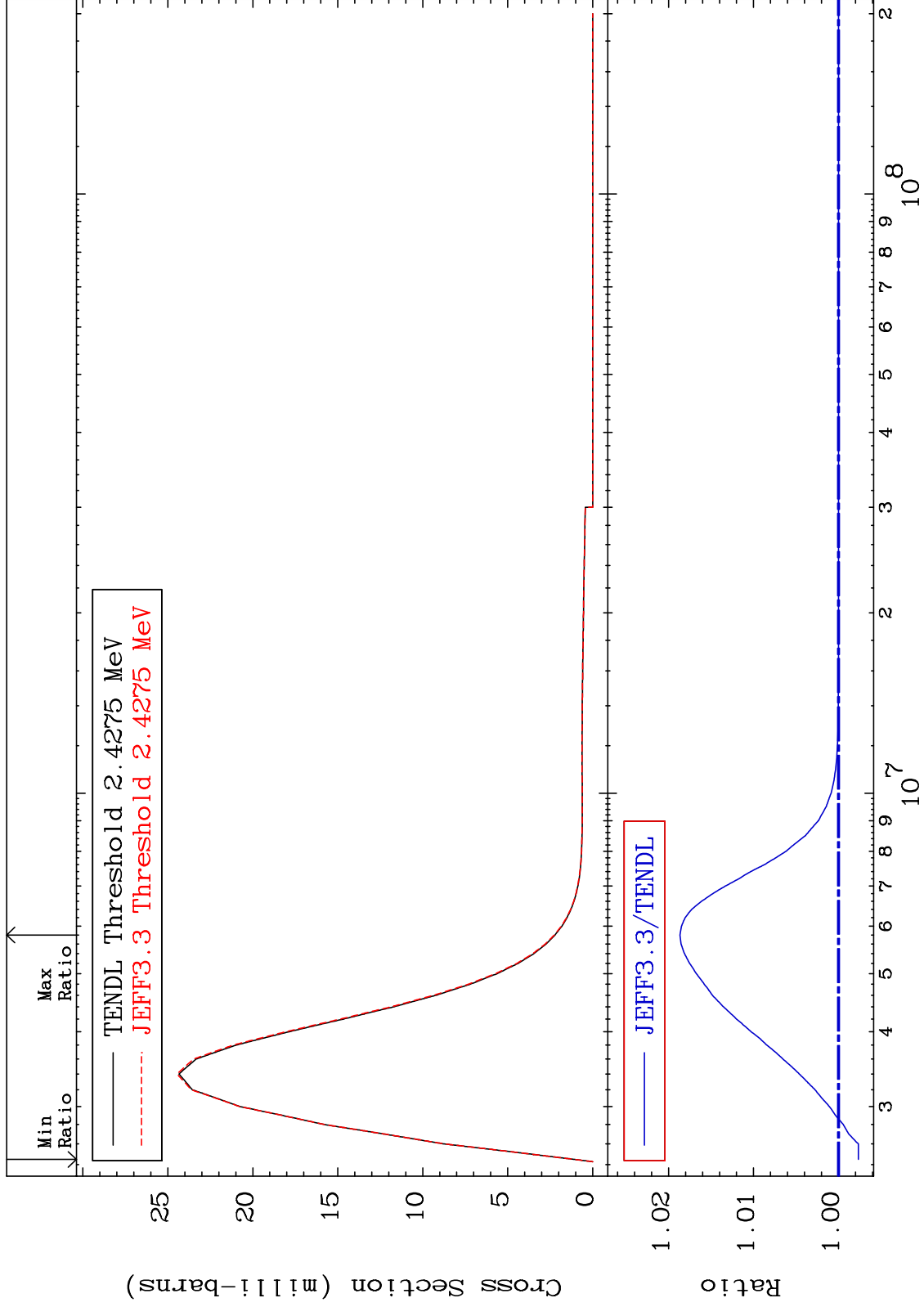
52-Te-122
-0.034 To 1.382 %



MAT 5231

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

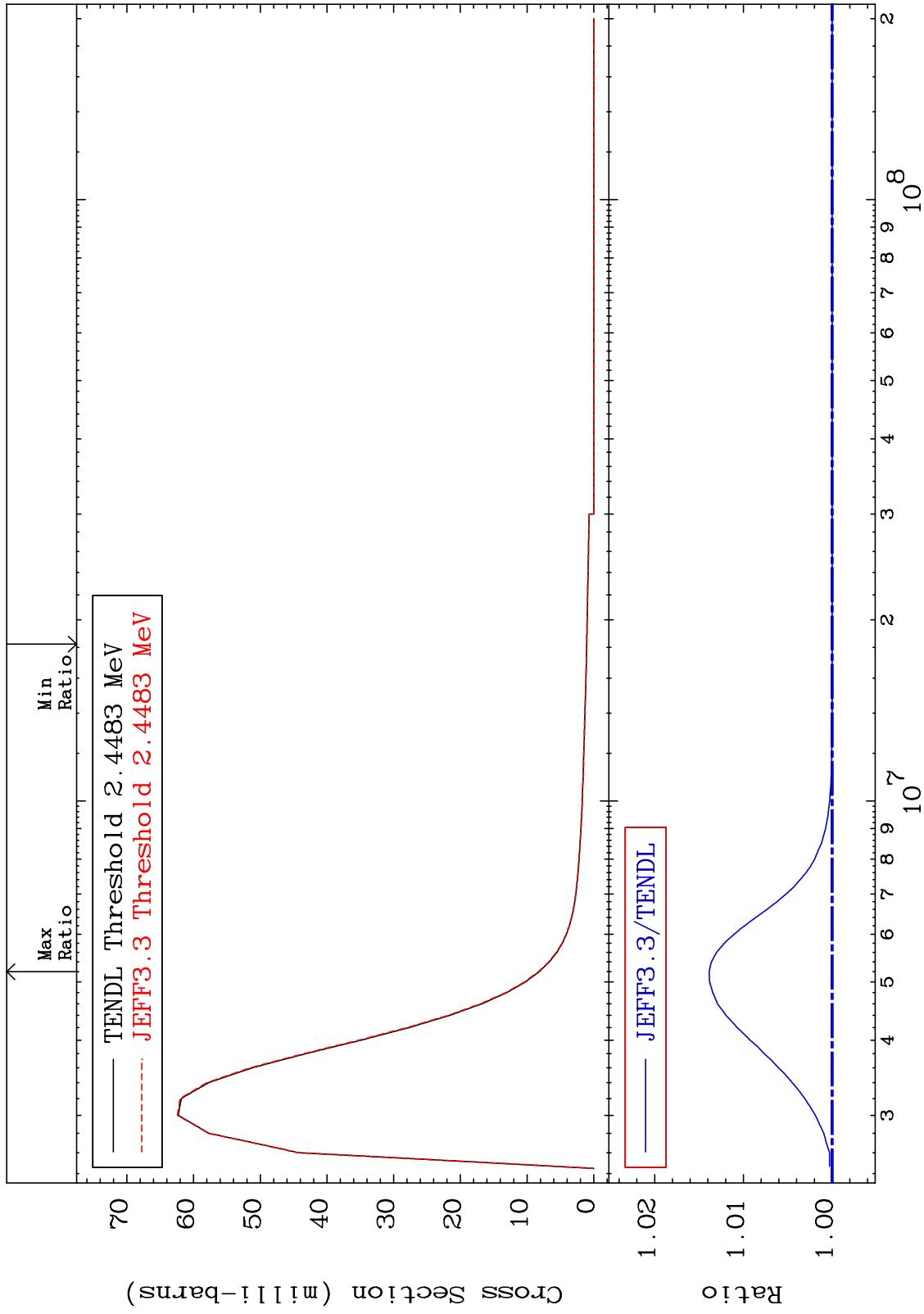
52-Te-122
-0.235 To 1.865 %



MAT 5231

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

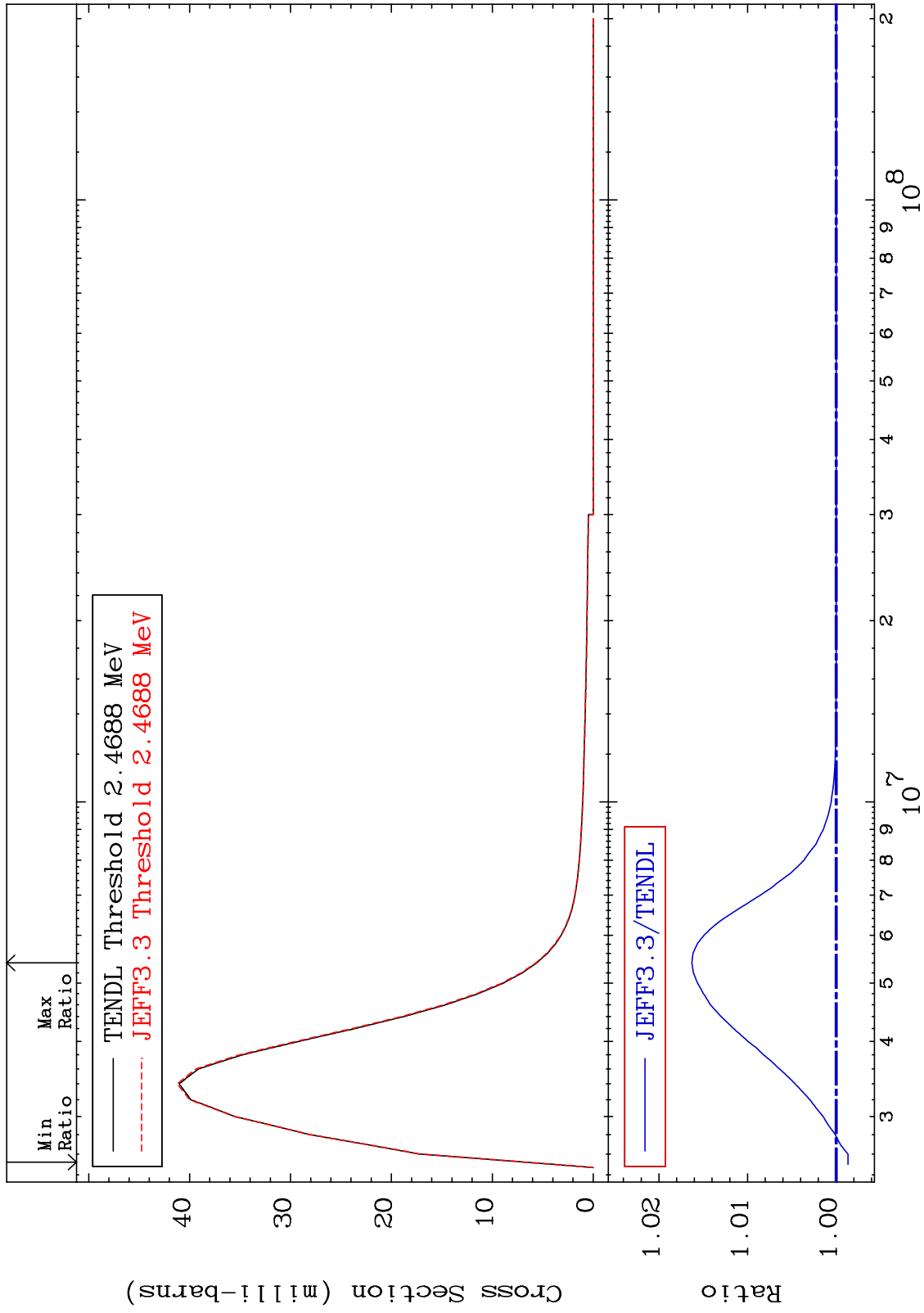
52-Te-122
0.000 To 1.387 %



MAT 5231

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

52-Te-122
-0.133 To 1.628 %



40

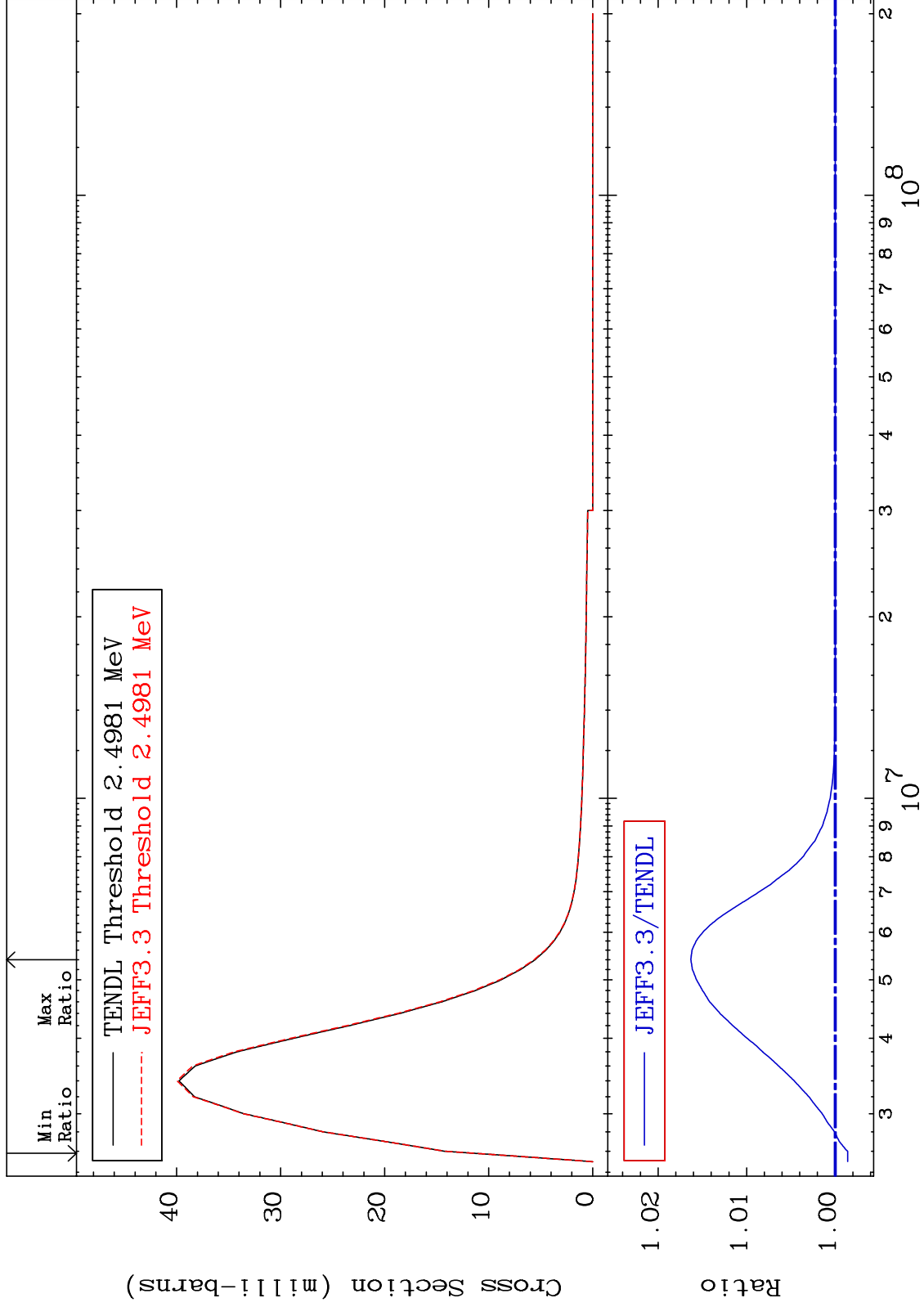
Incident Energy (eV)

52-Te-122

MAT 5231

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

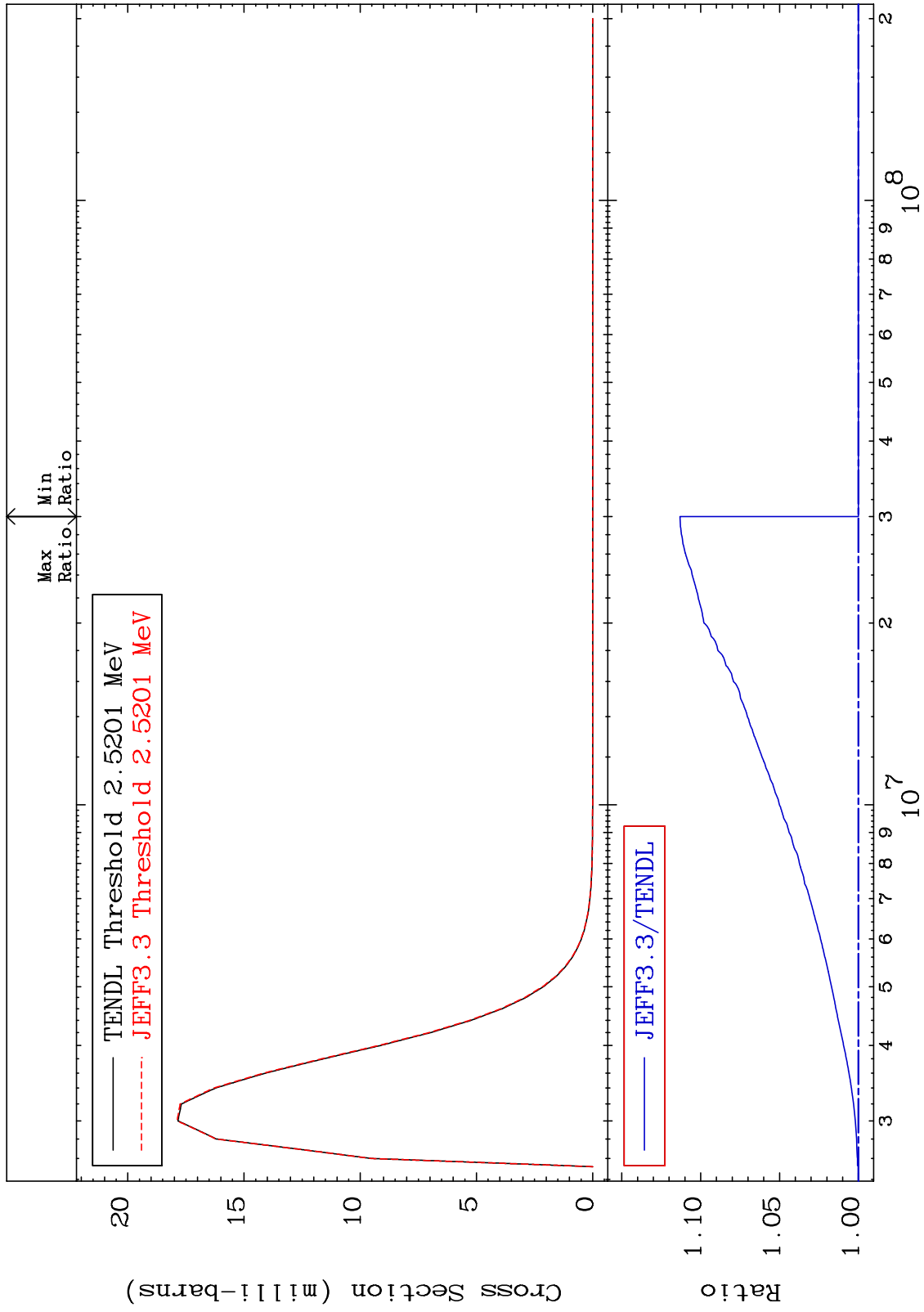
52-Te-122
-0.140 To 1.630 %



MAT 5231

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

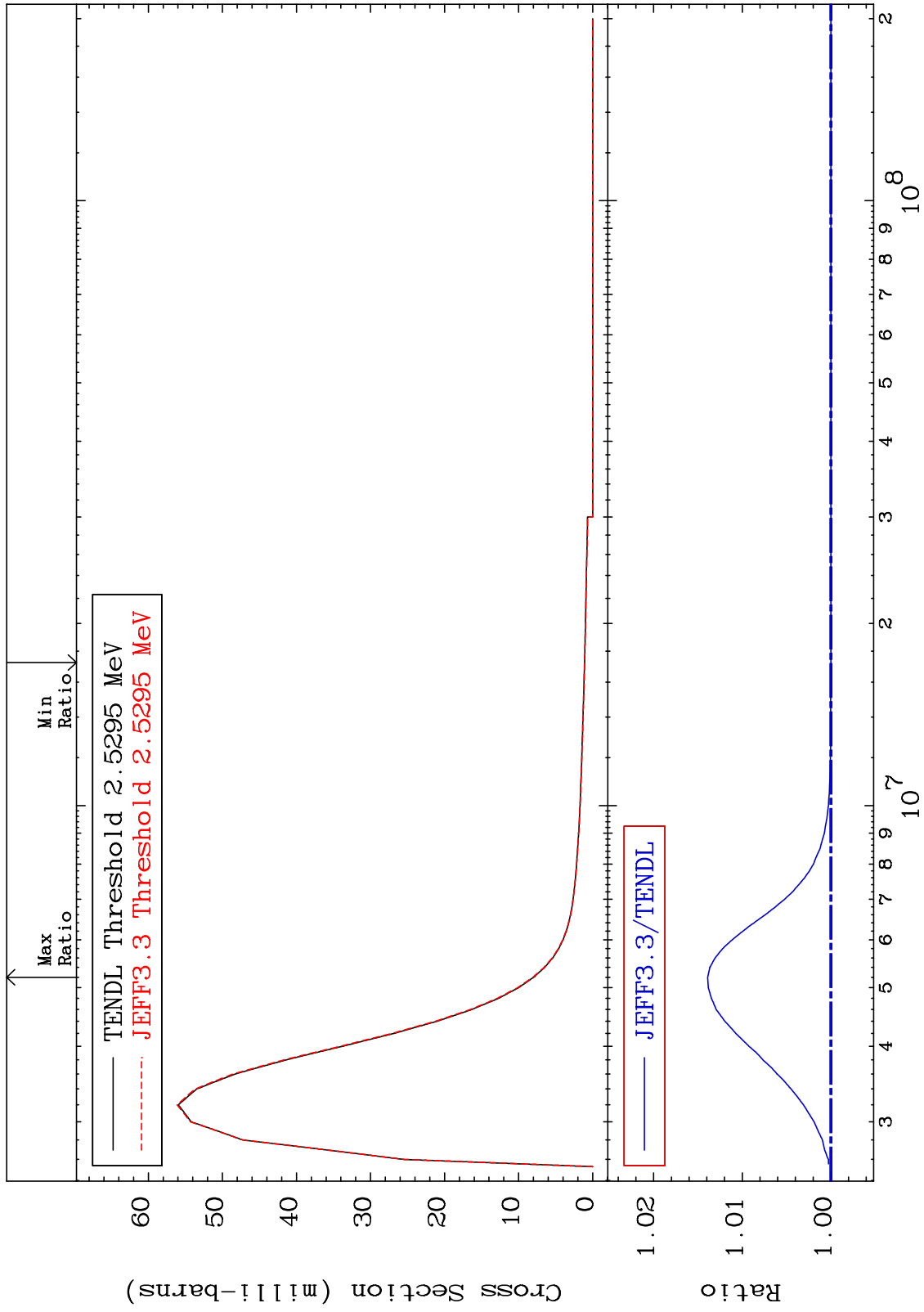
52-Te-122
0.000 To 11.31 %



MAT 5231

MT= 74 (n,n') Level
Cross Section

52-Te-122
0.000 To 1.391 %



43

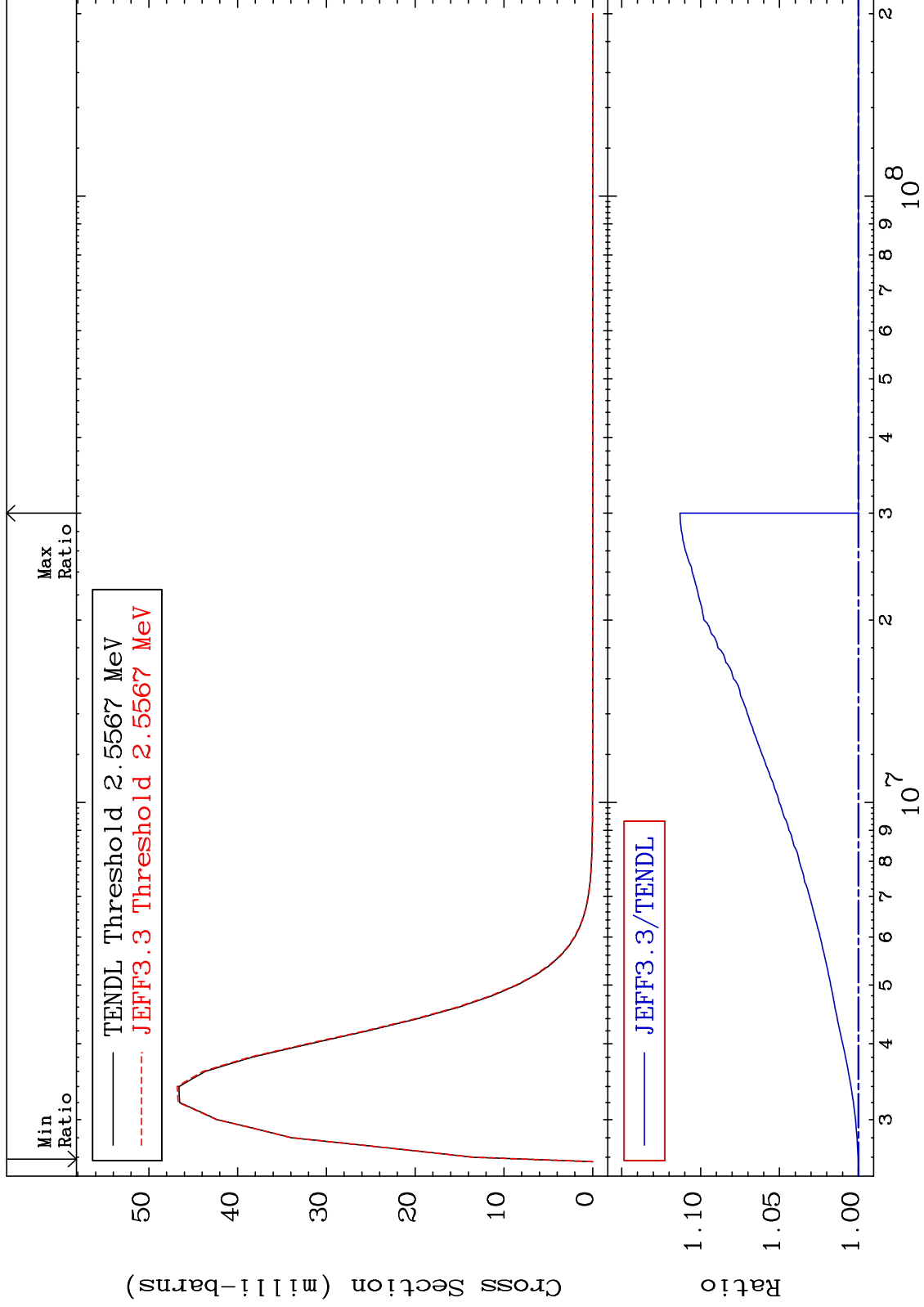
Incident Energy (eV)

52-Te-122

MAT 5231

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

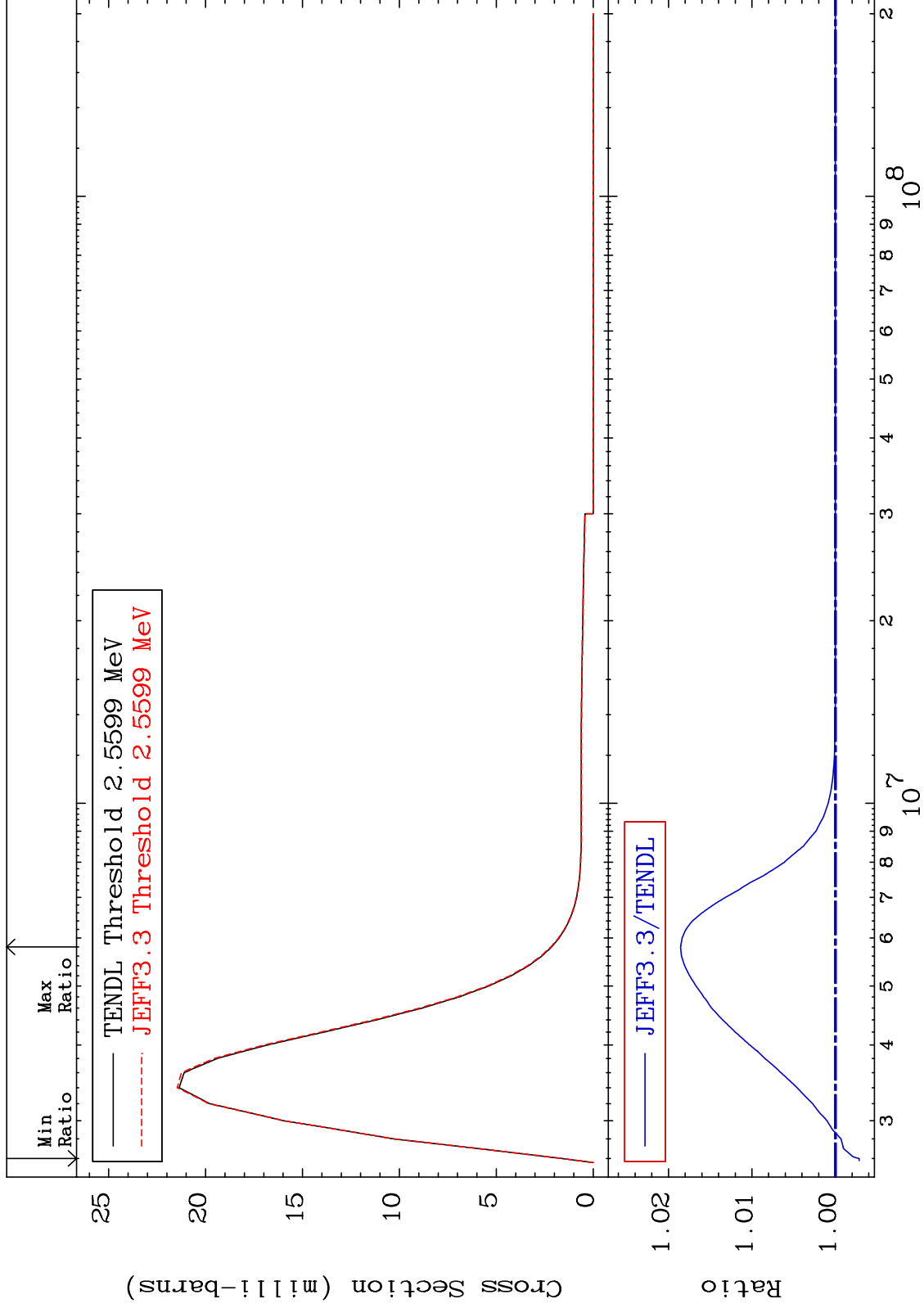
52-Te-122
-0.004 To 11.31 %



MAT 5231

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

52-Te-122
-0.285 To 1.855 %



45

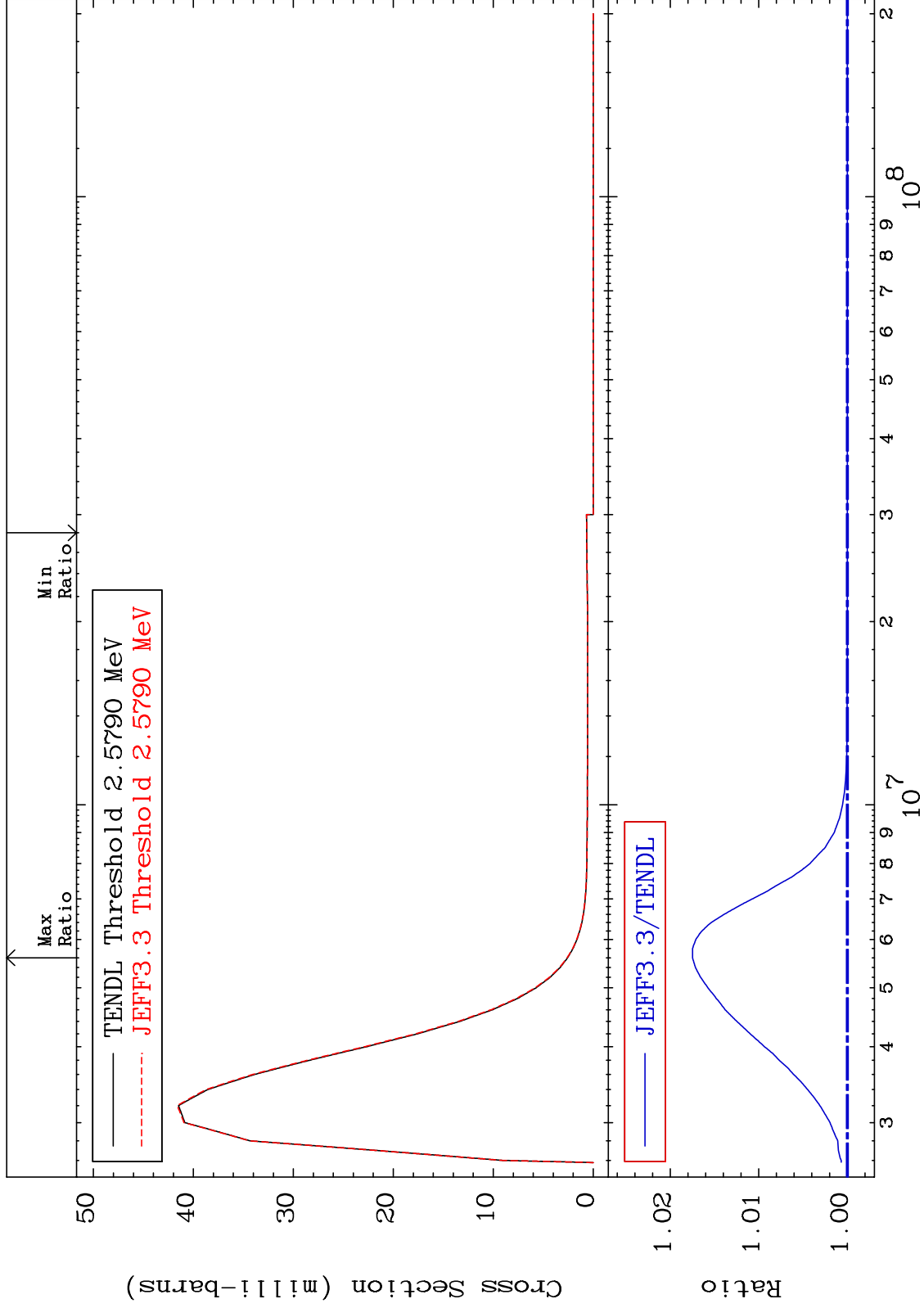
Incident Energy (eV)

52-Te-122

MAT 5231

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

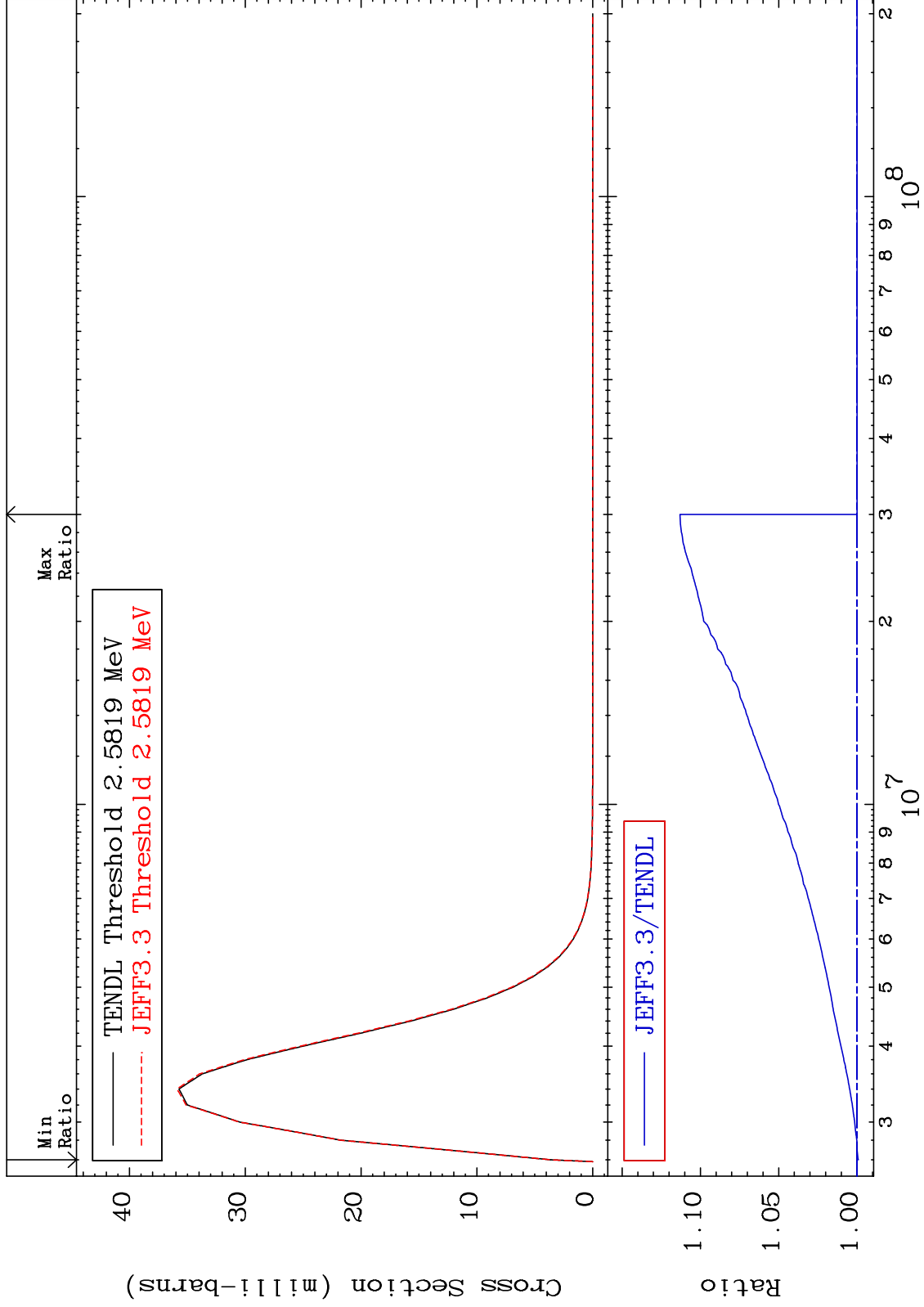
52-Te-122
To 1.748 %



MAT 5231

MT= 78 (n, n') Level
Cross Section

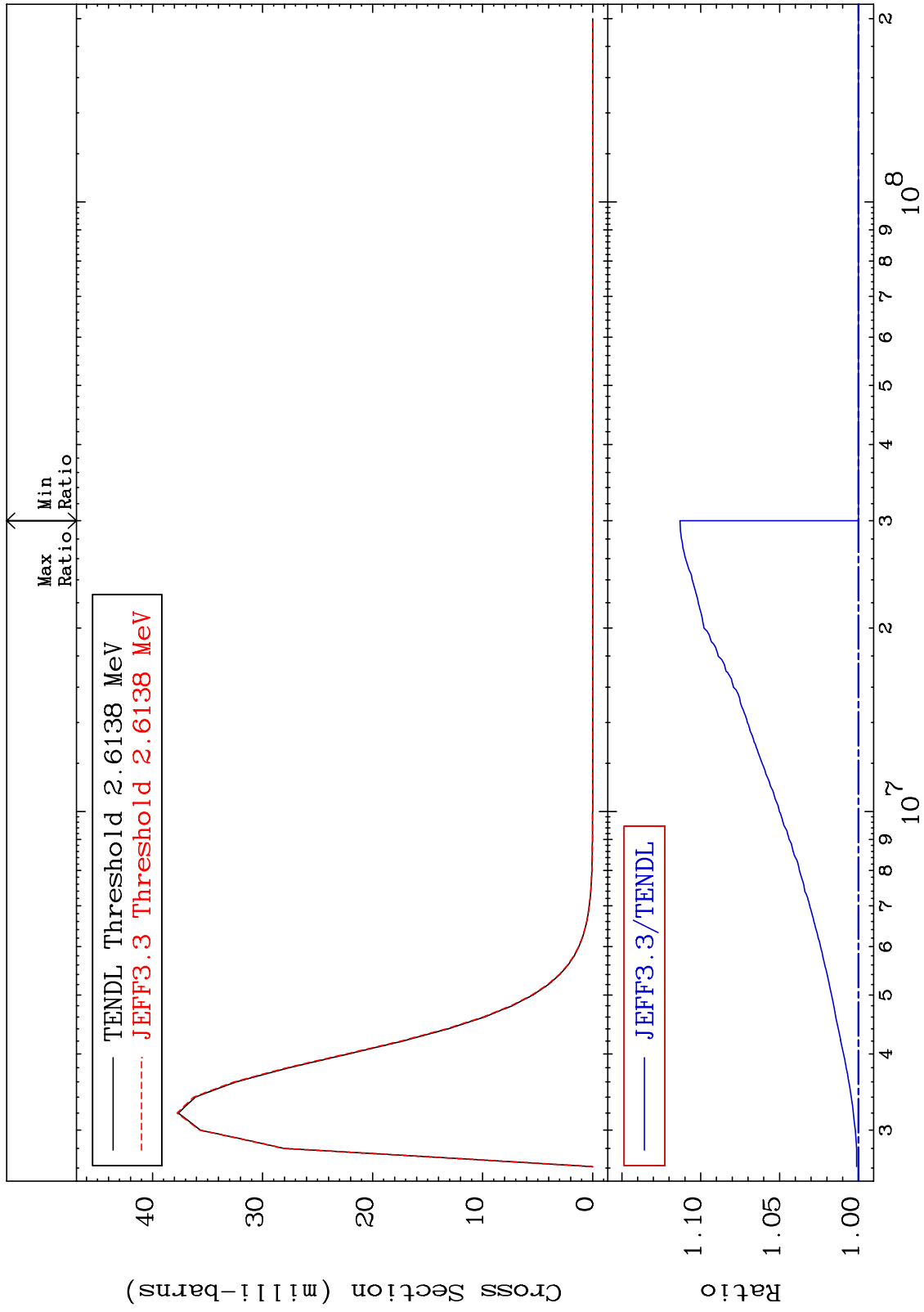
52-Te-122
-0.091 To 11.30 %



MAT 5231

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

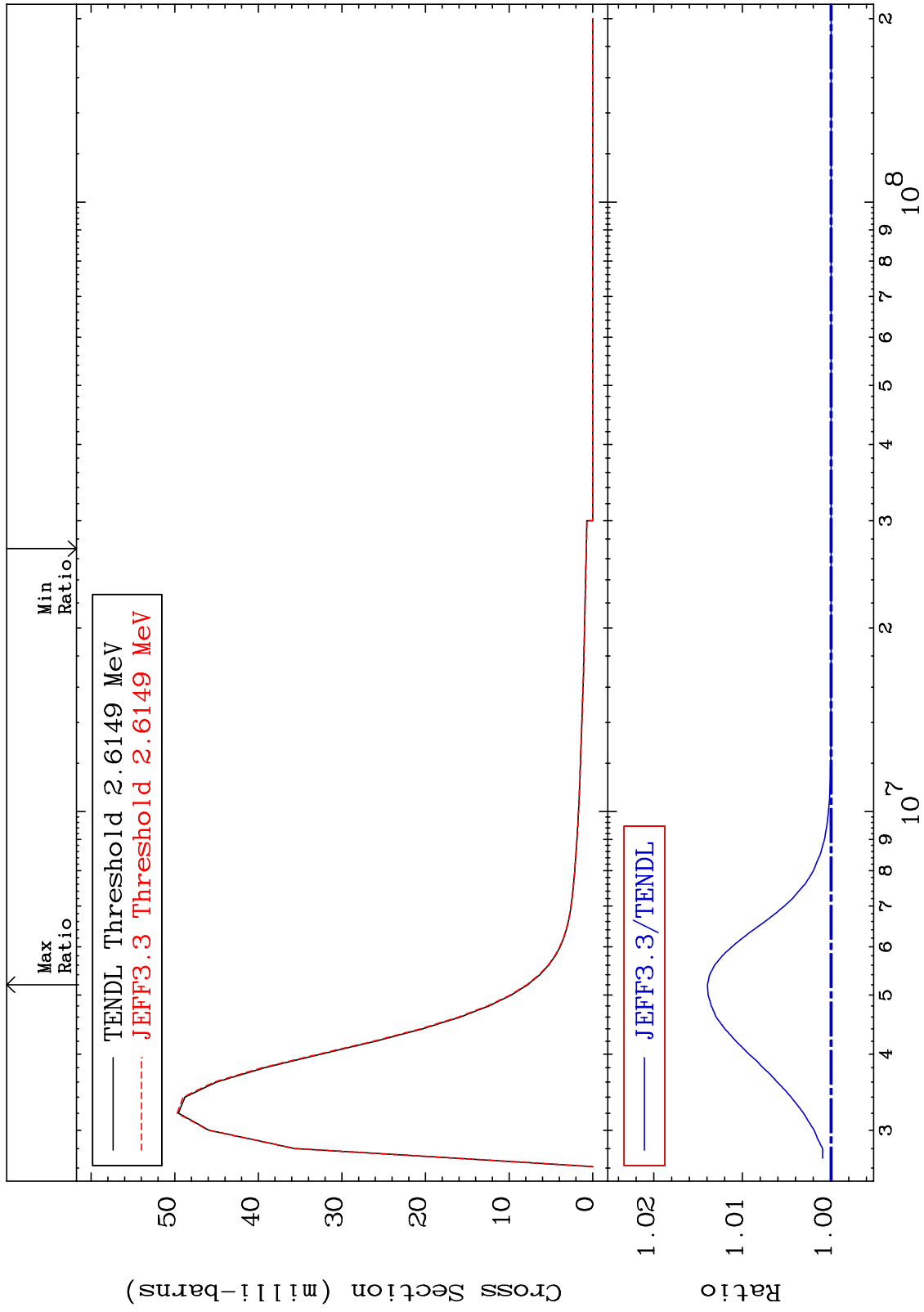
52-Te-122
0.000 To 11.31 %



MAT 5231

MT= 80 (n, n') Level
Cross Section

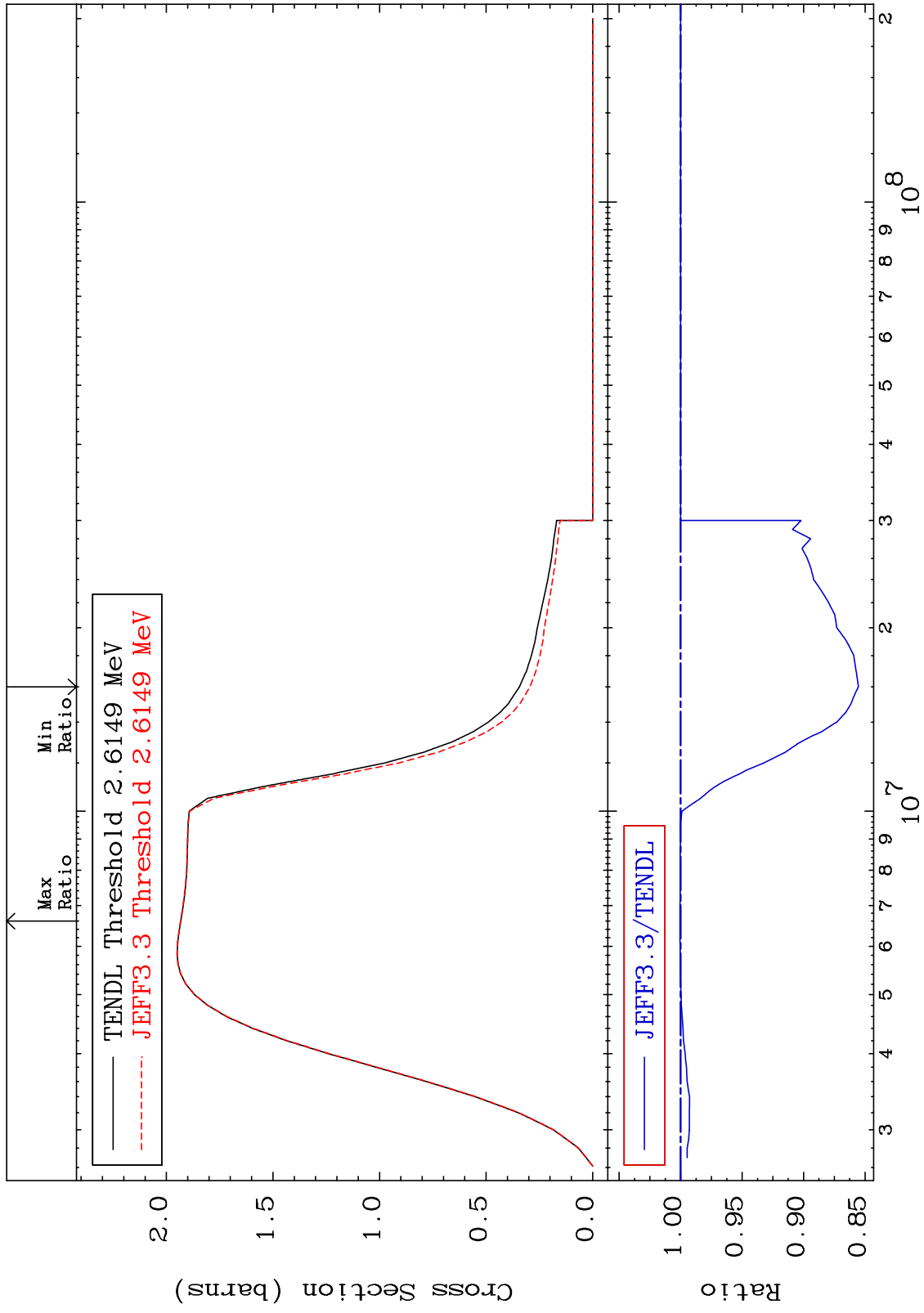
52-Te-122
To 1.395 %
0.000



MAT 5231

(n, n') Continuum
Cross Section

52-Te-122
-14.45 To 0.049 %



50

Incident Energy (eV)

52-Te-122

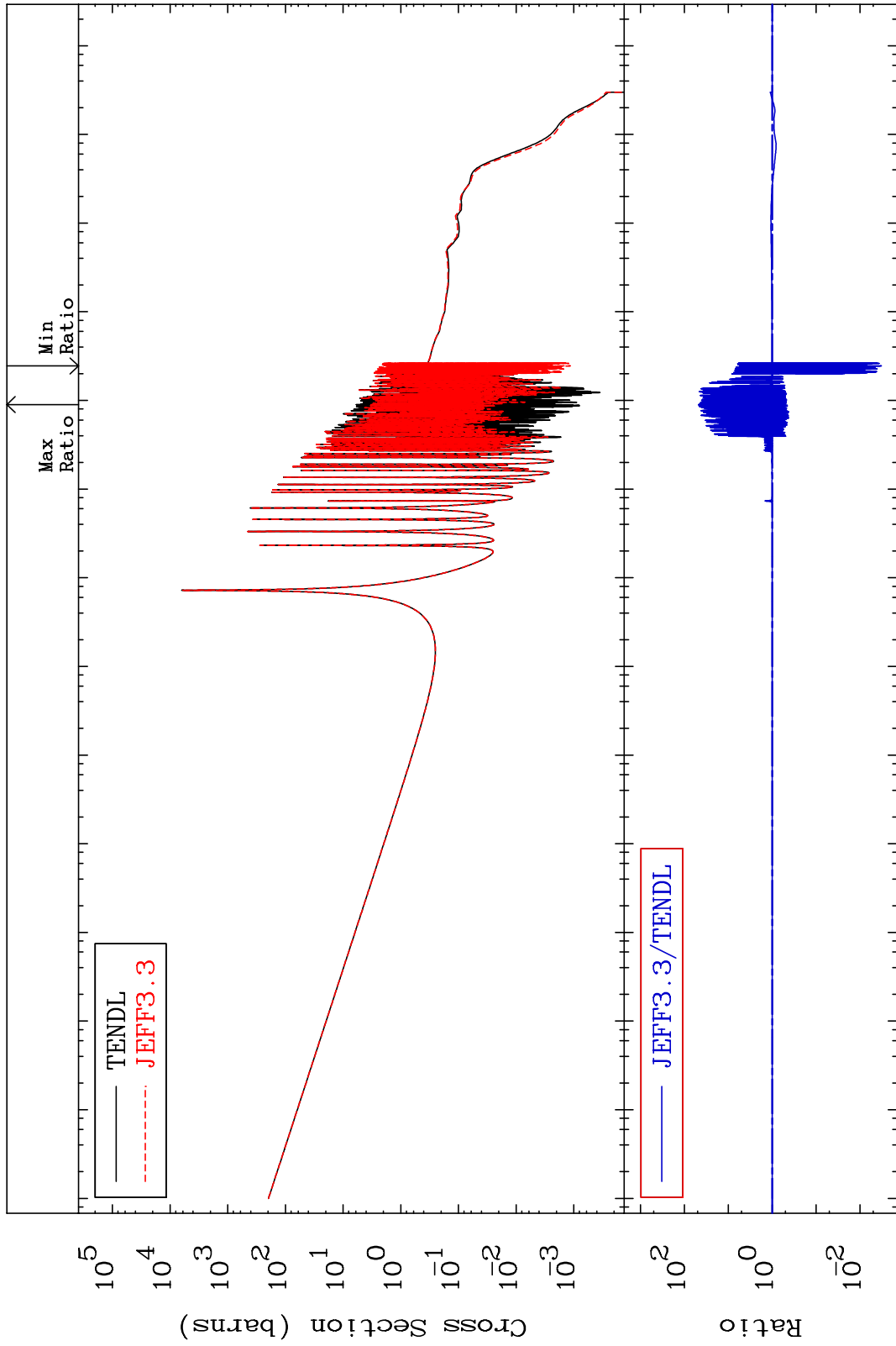
MAT 5231

(n, γ)

52-Te-122

Cross Section

-99.68 To 4714. %



51

Incident Energy (eV)

52-Te-122

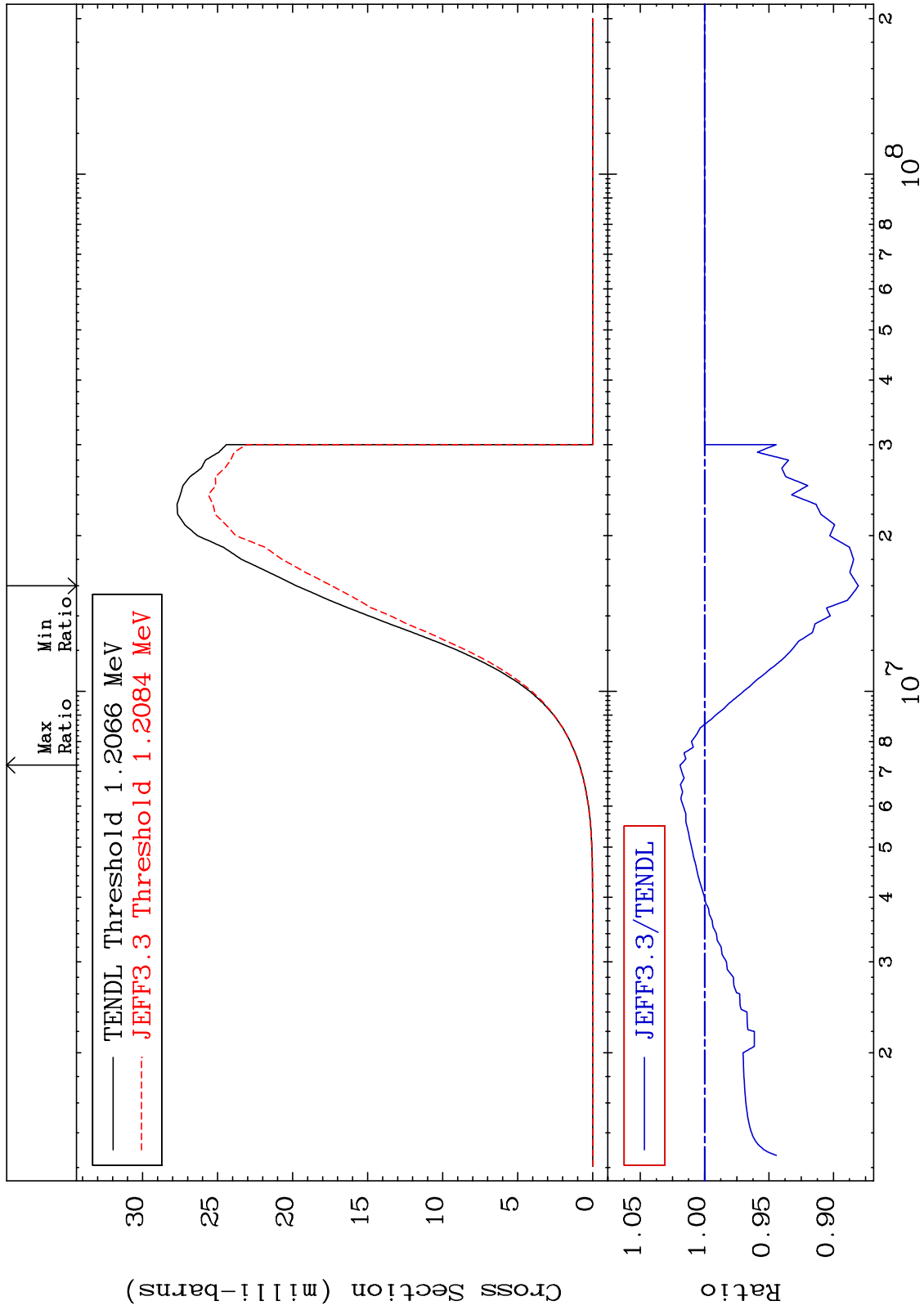
MAT 5231

52-Te-122

(n,p)

-11.94 To 1.912 %

Cross Section



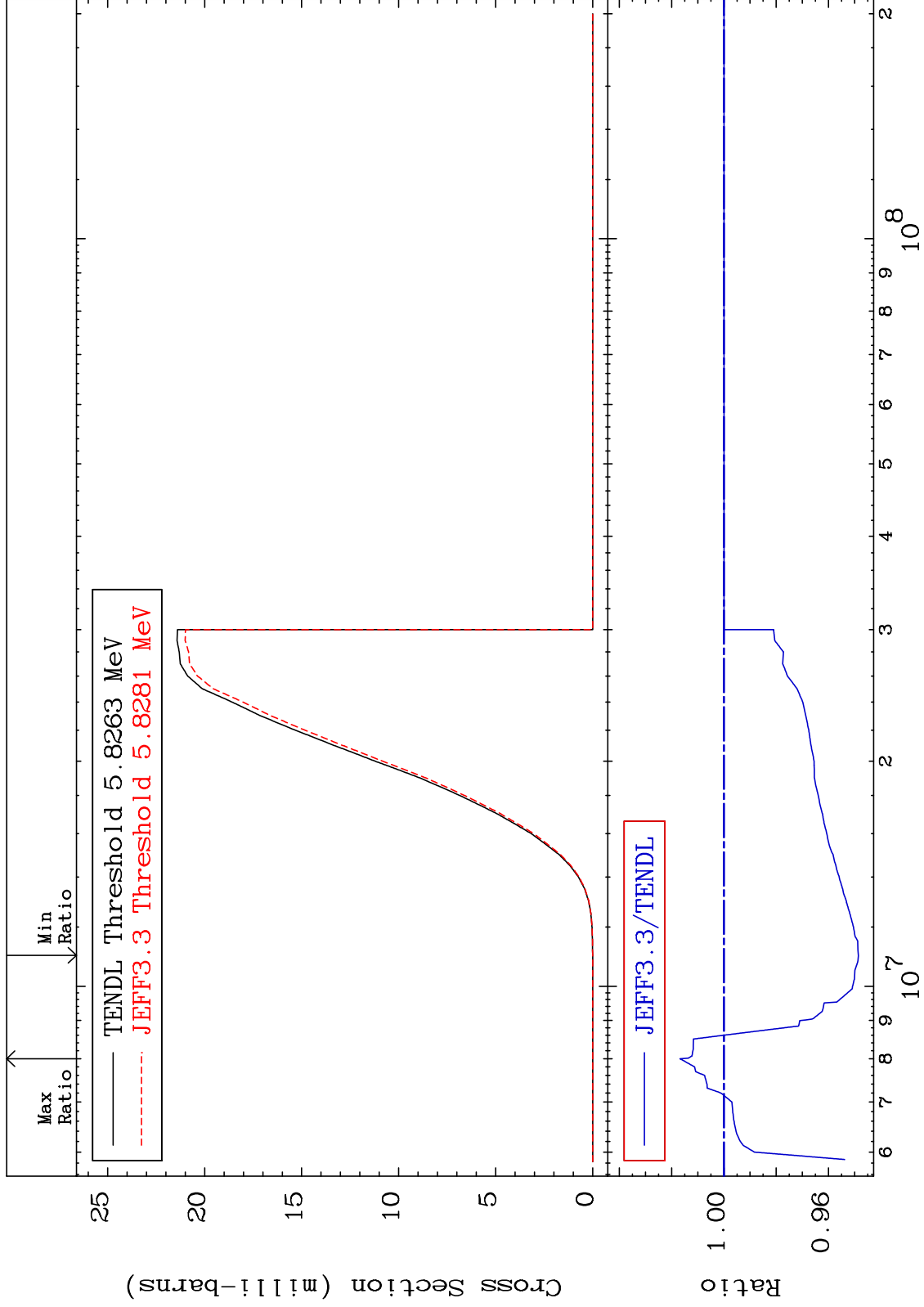
MAT 5231

(n, d)

52-Te-122

Cross Section

-5.145 To 1.680 %



53

Incident Energy (eV)

52-Te-122

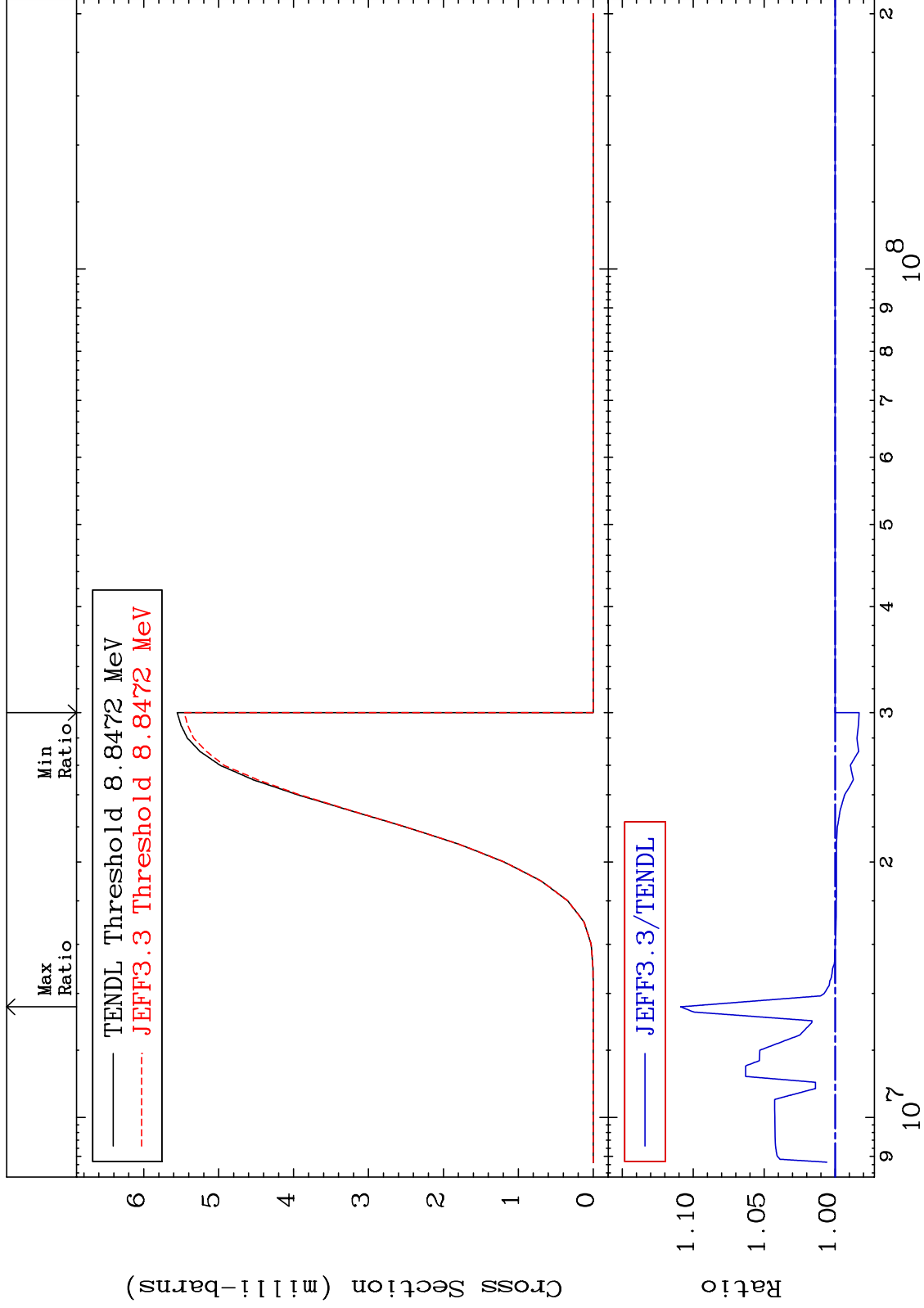
MAT 5231

(n, t)

52-Te-122

Cross Section

-1.691 To 10.89 %



54

Incident Energy (eV)

52-Te-122

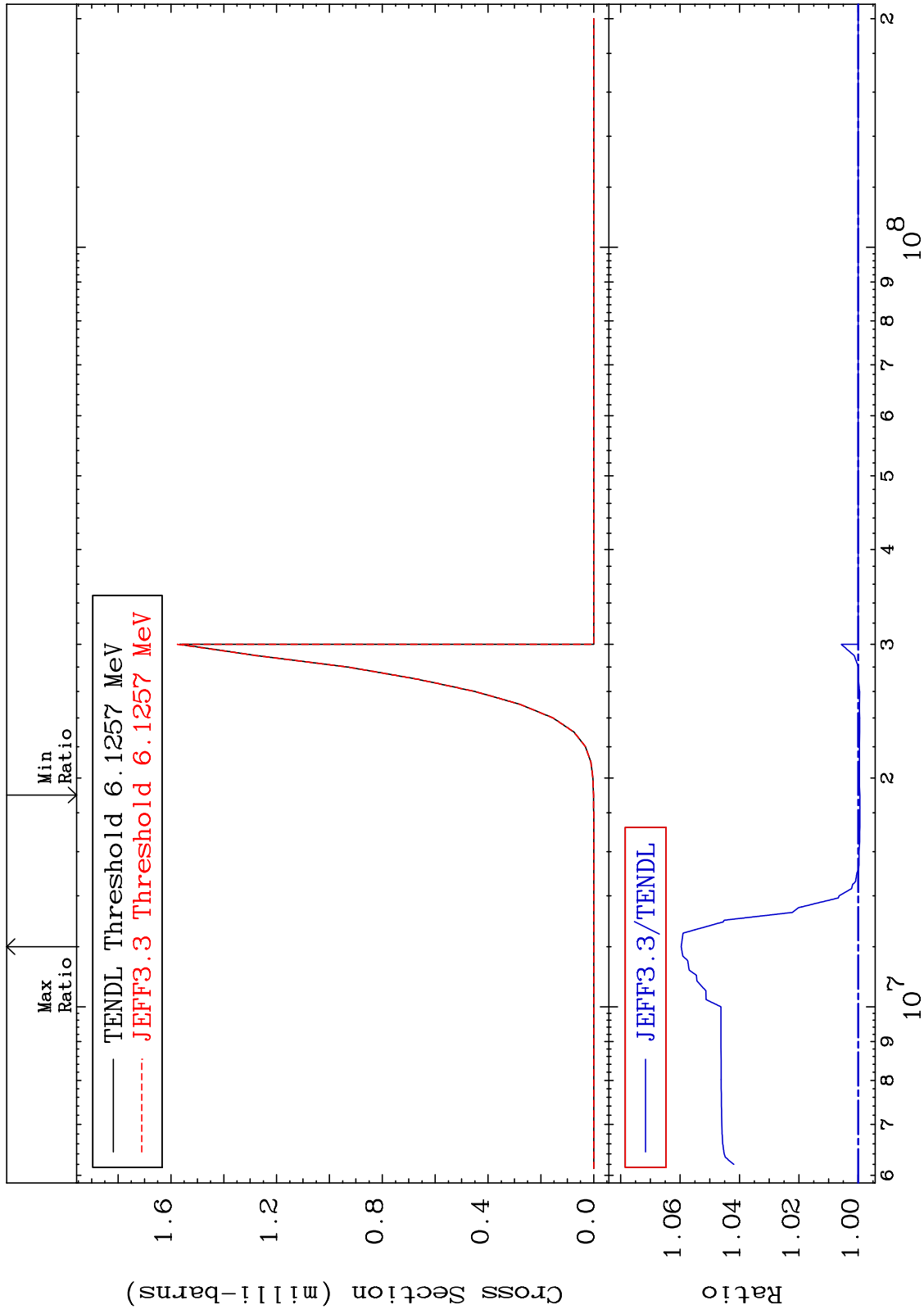
MAT 5231

(n, He-3)

52-Te-122

Cross Section

-0.058 To 5.962 %



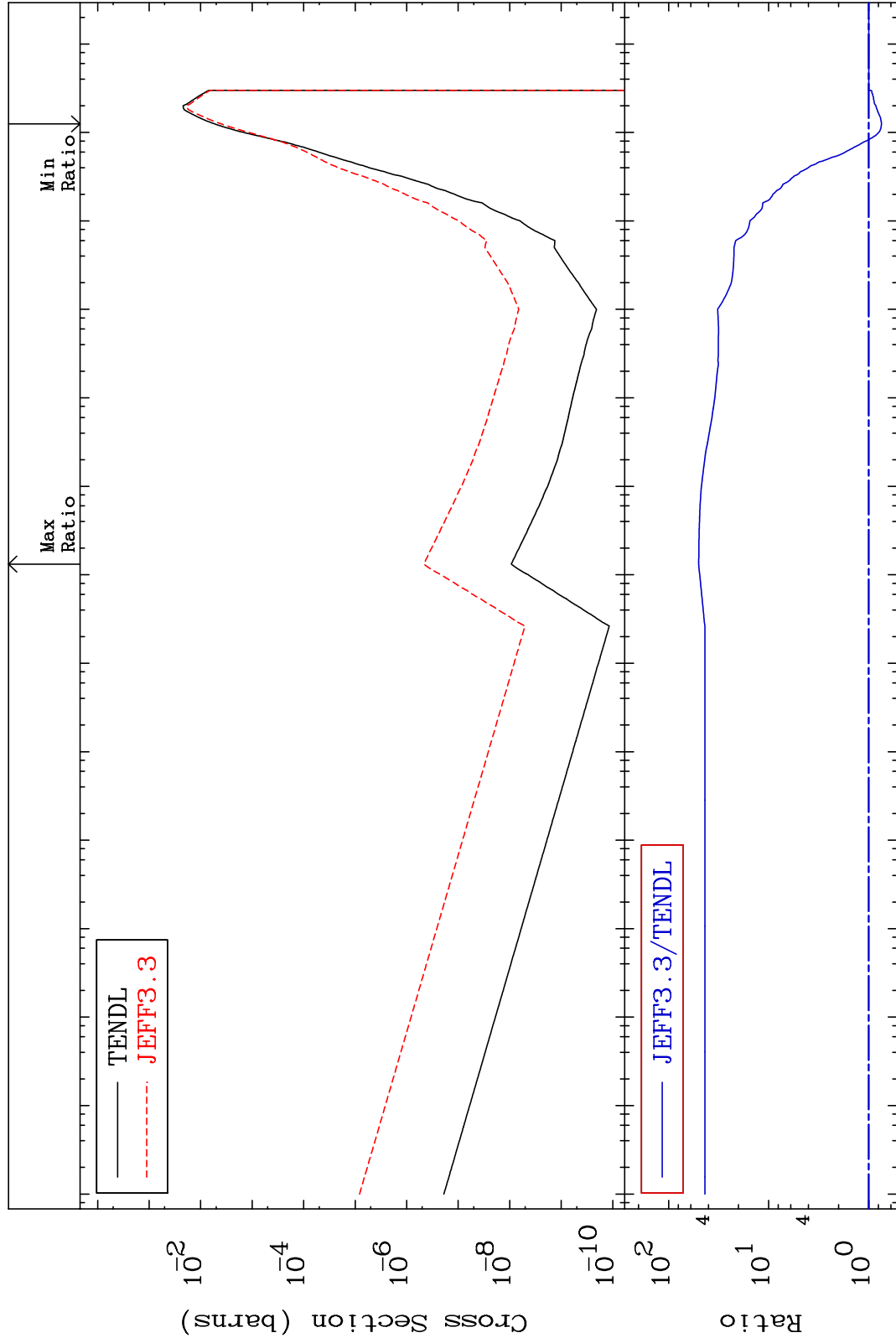
MAT 5231

(n, α)

52-Te-122

Cross Section

-25.69 To 4899. %



56

Incident Energy (eV)

52-Te-122

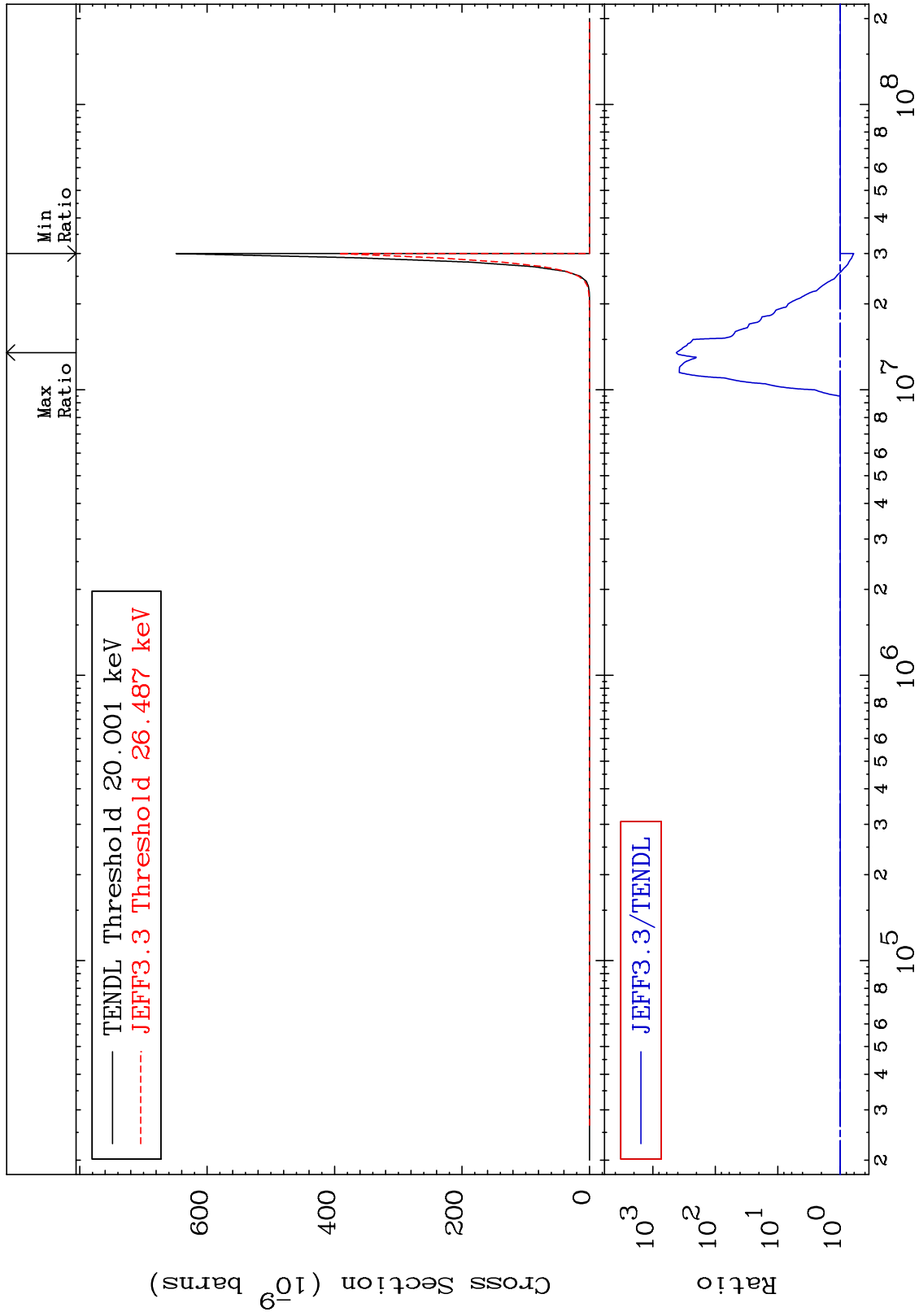
MAT 5231

(n, 2α)

52-Te-122

Cross Section

-39.31 To 9999. %



57

Incident Energy (eV)

52-Te-122

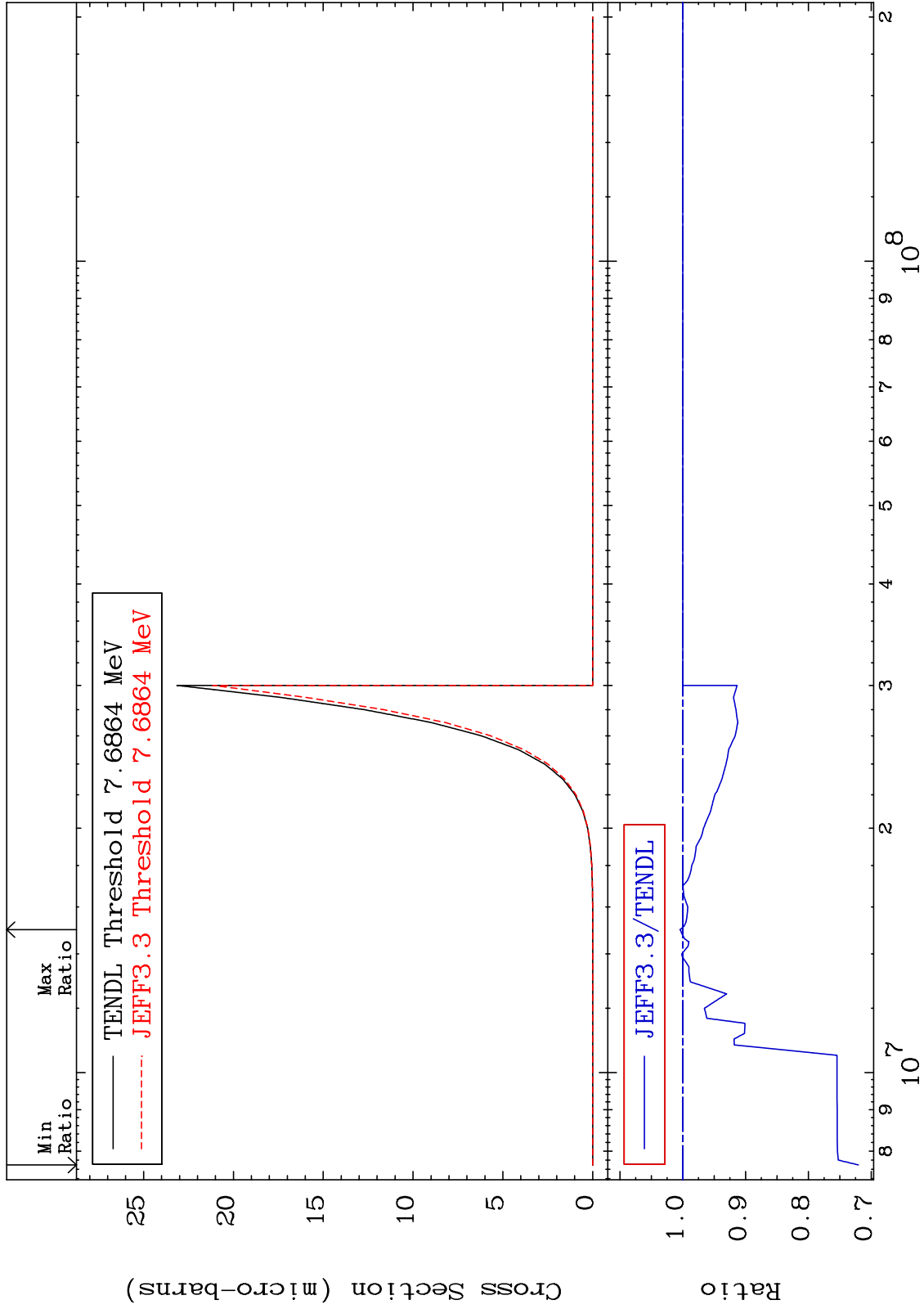
MAT 5231

(n,2p)

52-Te-122

Cross Section

-27.96 To 0.438 %



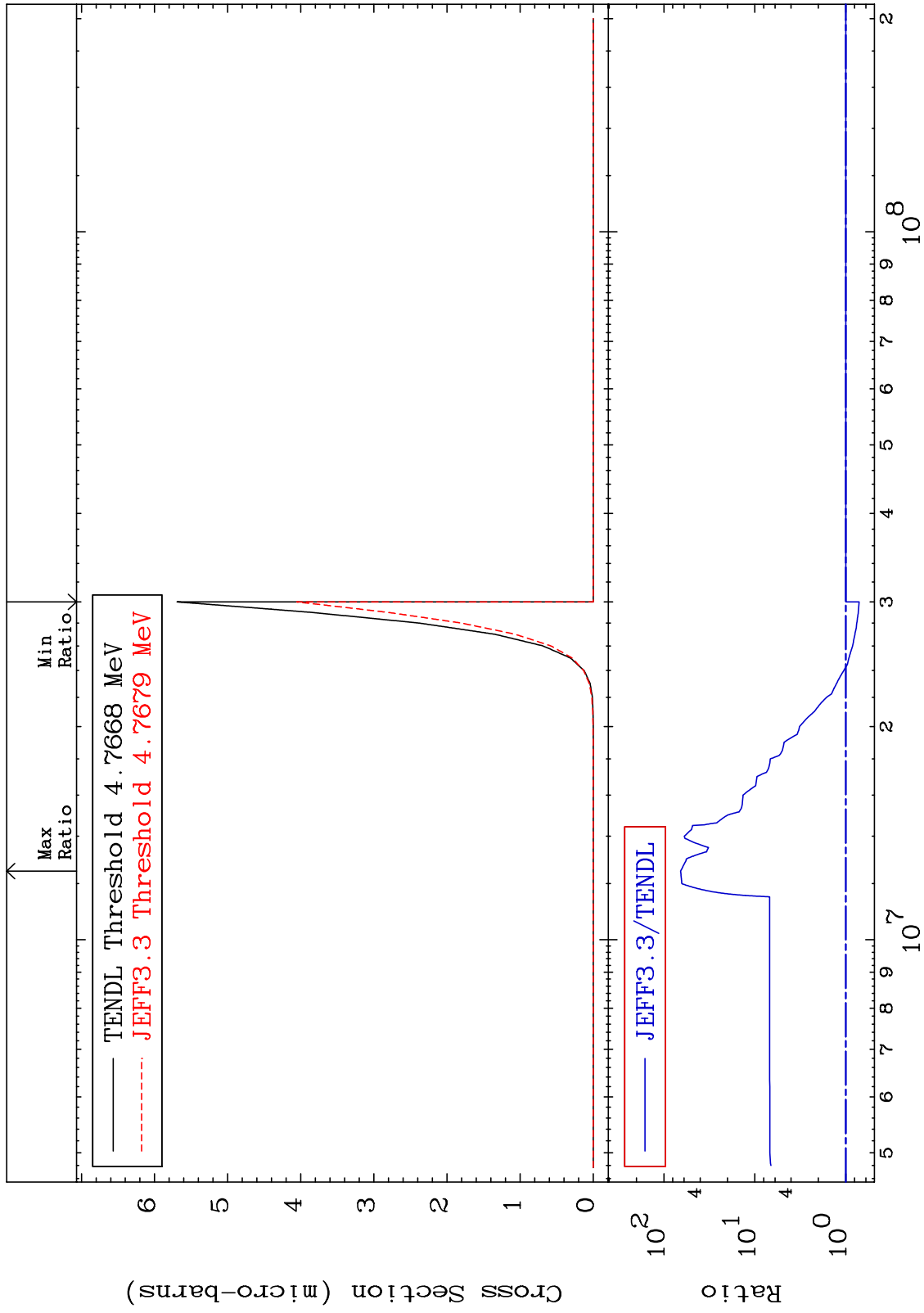
MAT 5231

(n,p) α

52-Te-122

Cross Section

-28.76 To 6451. %



59

Incident Energy (eV)

52-Te-122

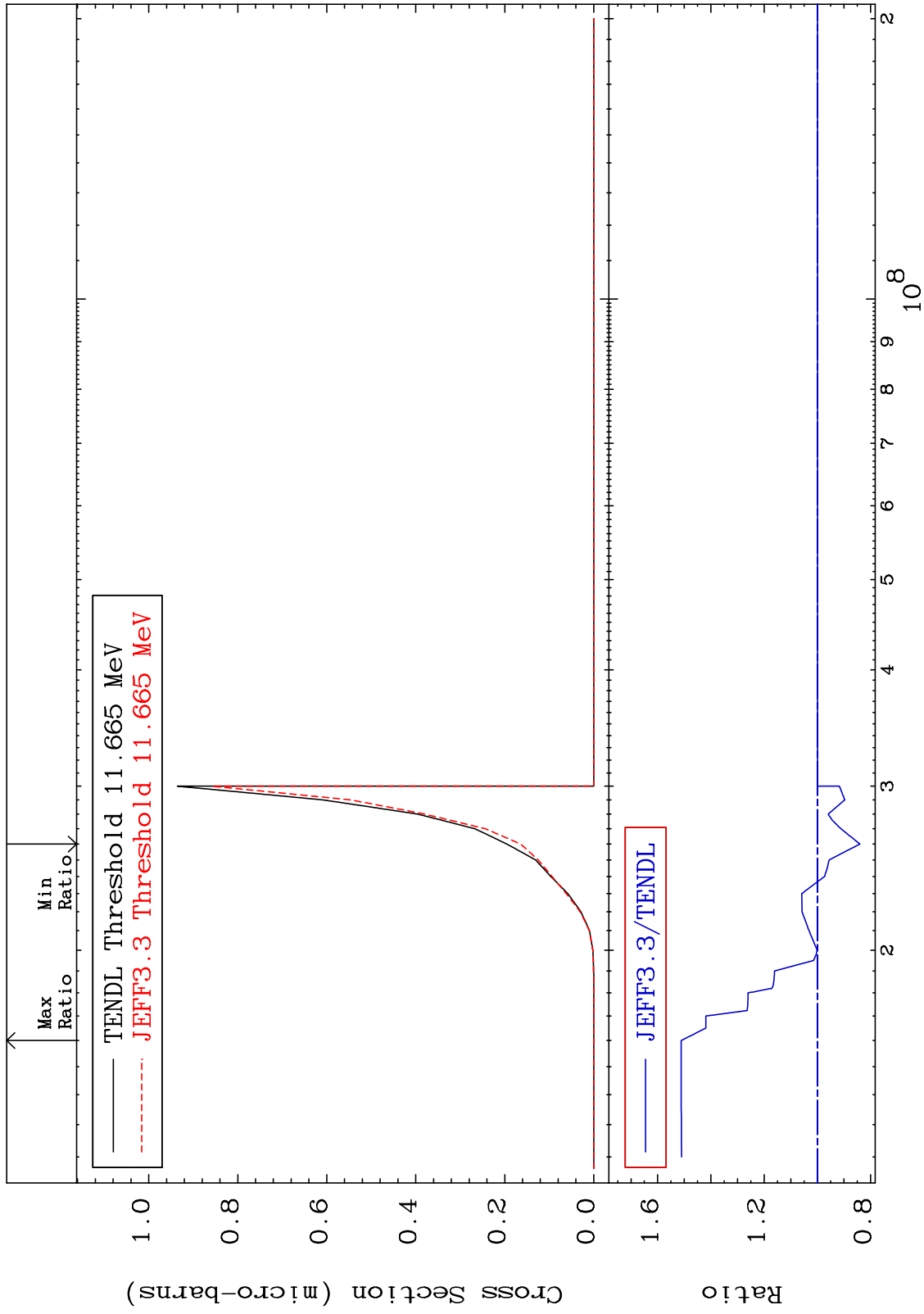
MAT 5231

(n,p) d

52-Te-122

Cross Section

-15.98 To 51.14 %



60

52-Te-122

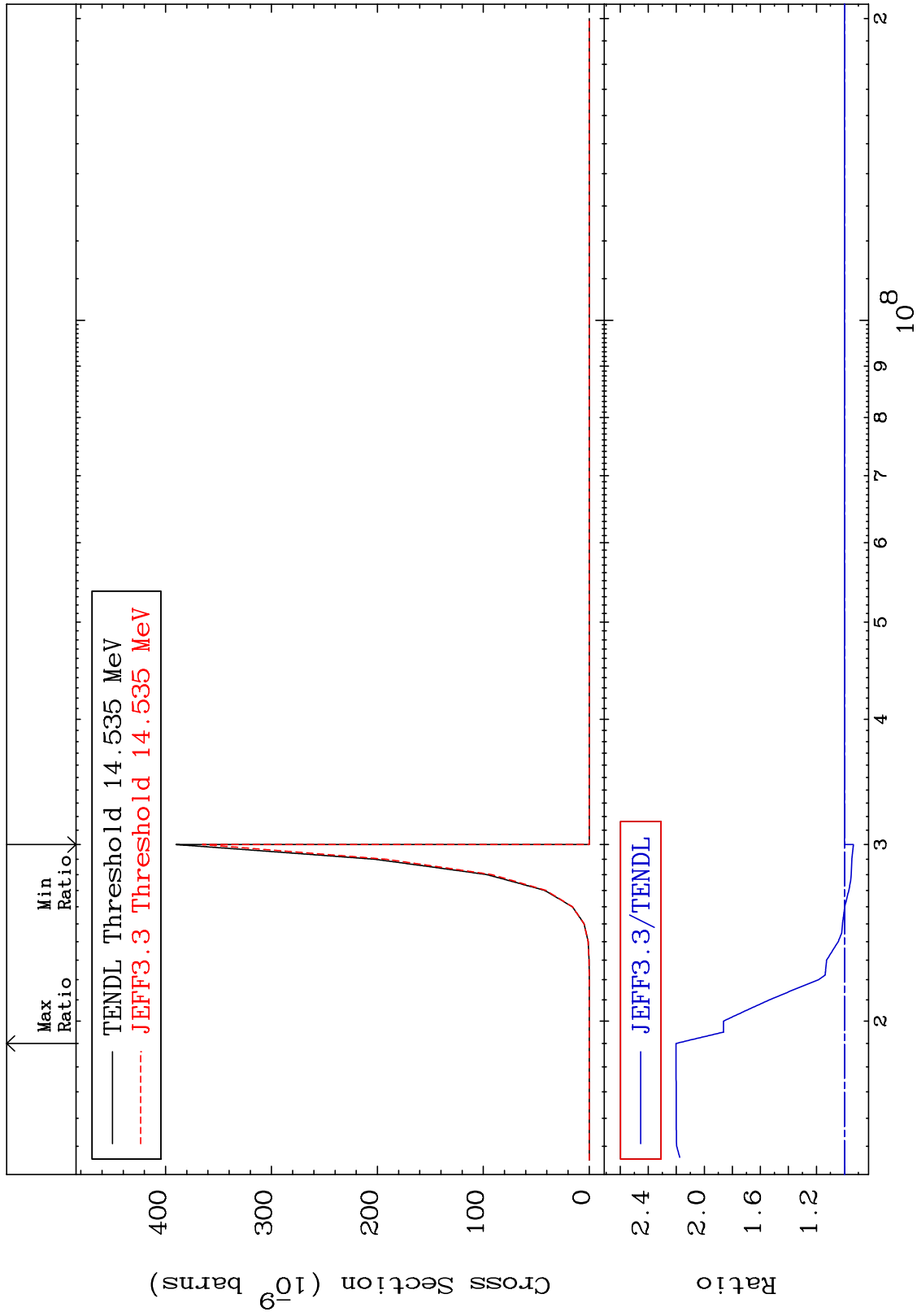
MAT 5231

(n,p) t

52-Te-122

Cross Section

-6.403 To 120.2 %



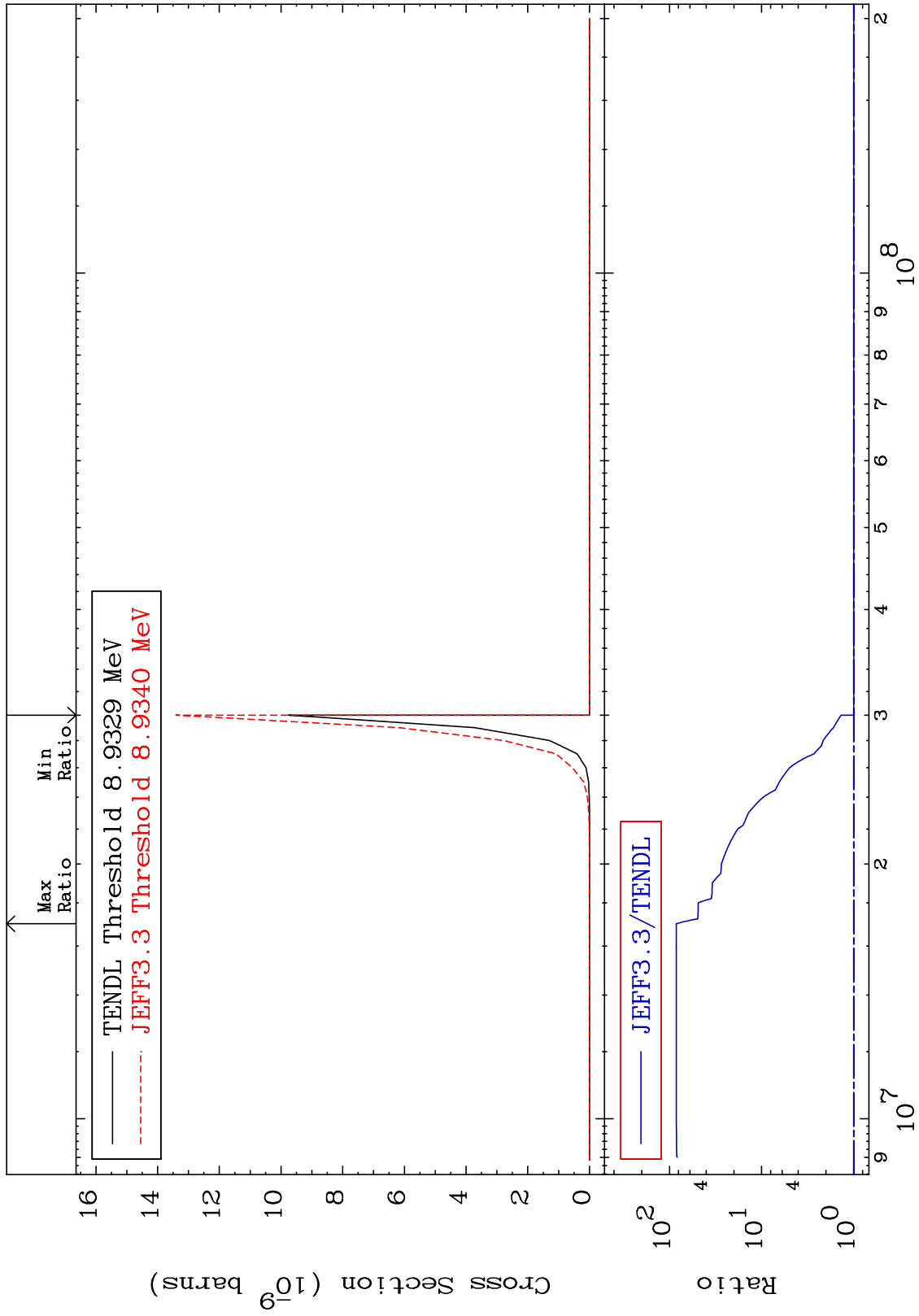
MAT 5231

(n,d) α

52-Te-122

Cross Section

0.000 To 8324. %



62

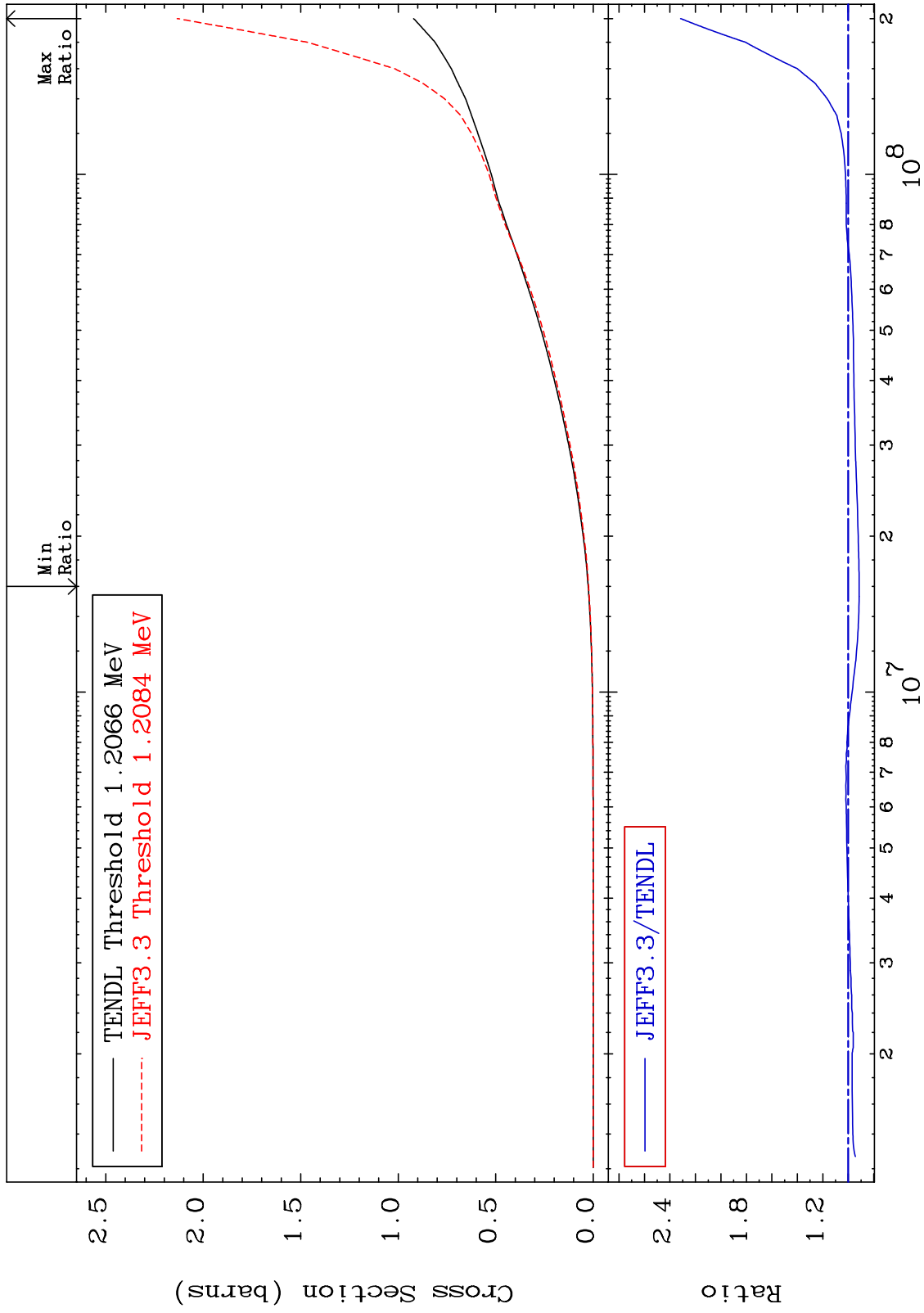
Incident Energy (eV)

52-Te-122

MAT 5231

Hydrogen Production
Cross Section

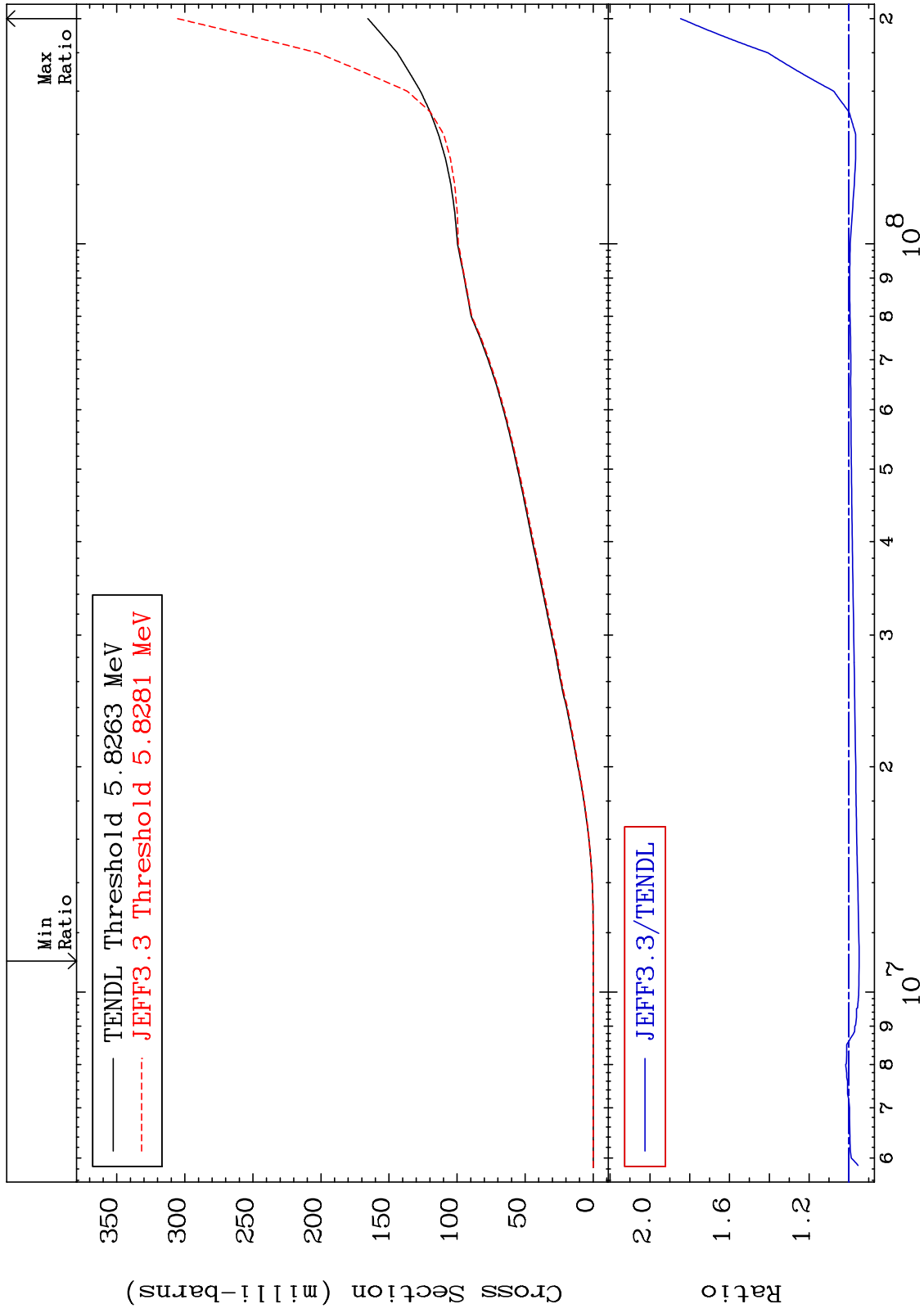
52-Te-122
-8.576 To 131.6 %



MAT 5231

Deuterium Production
Cross Section

52-Te-122
-5.145 To 84.57 %



64

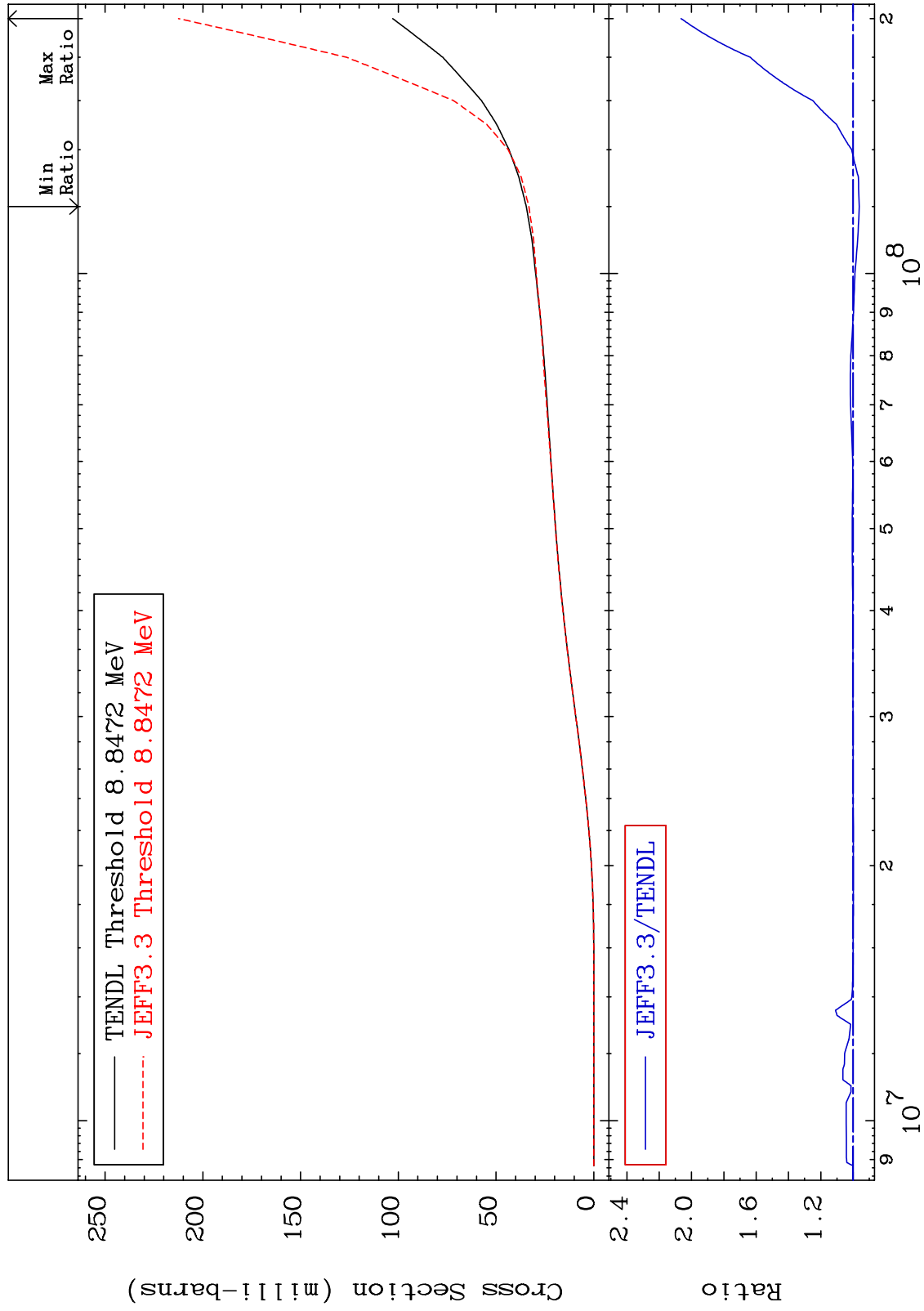
Incident Energy (eV)

52-Te-122

MAT 5231

Tritium Production
Cross Section

52-Te-122
-3.811 To 106.5 %



65

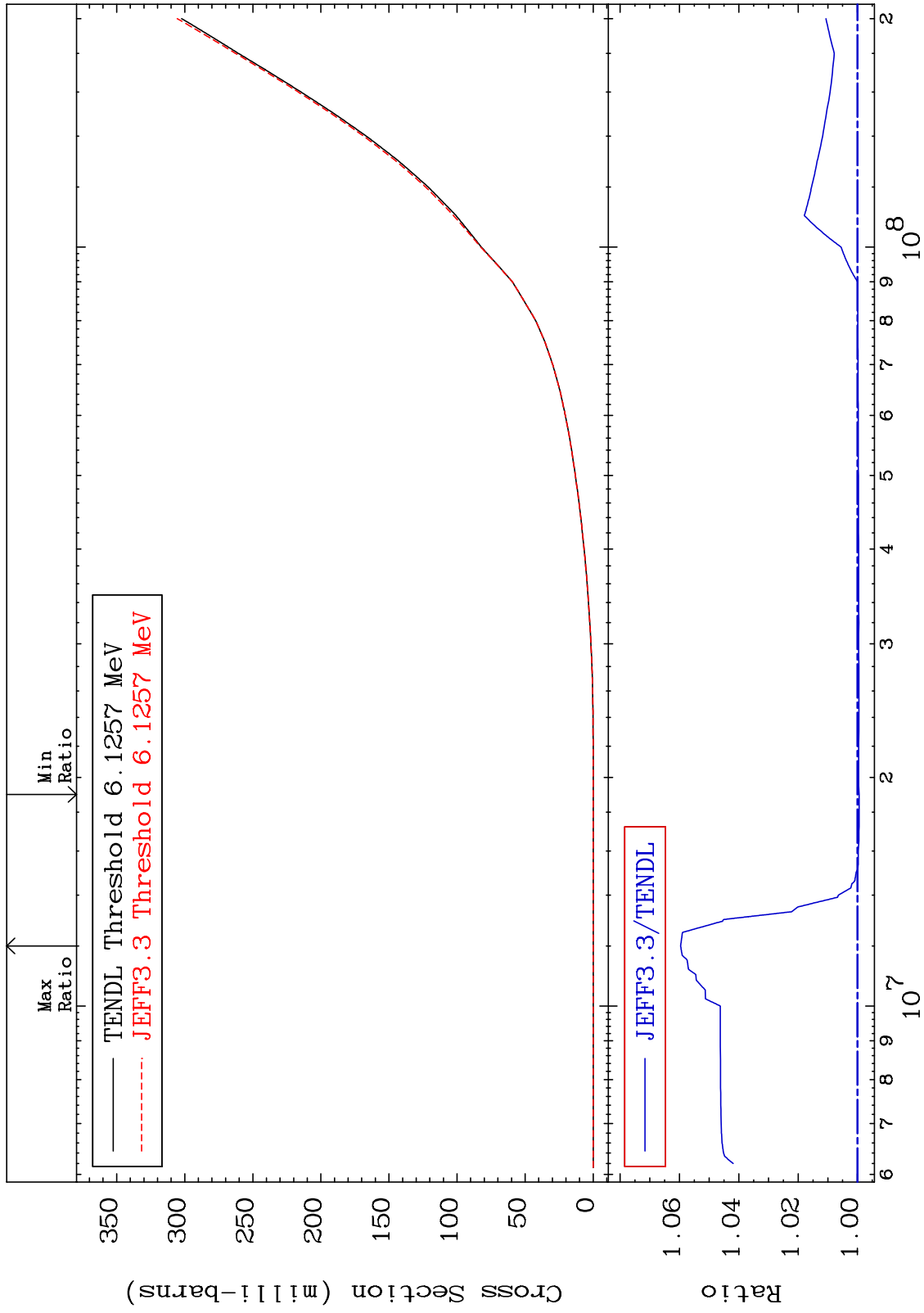
Incident Energy (eV)

52-Te-122

MAT 5231

He-3 Production
Cross Section

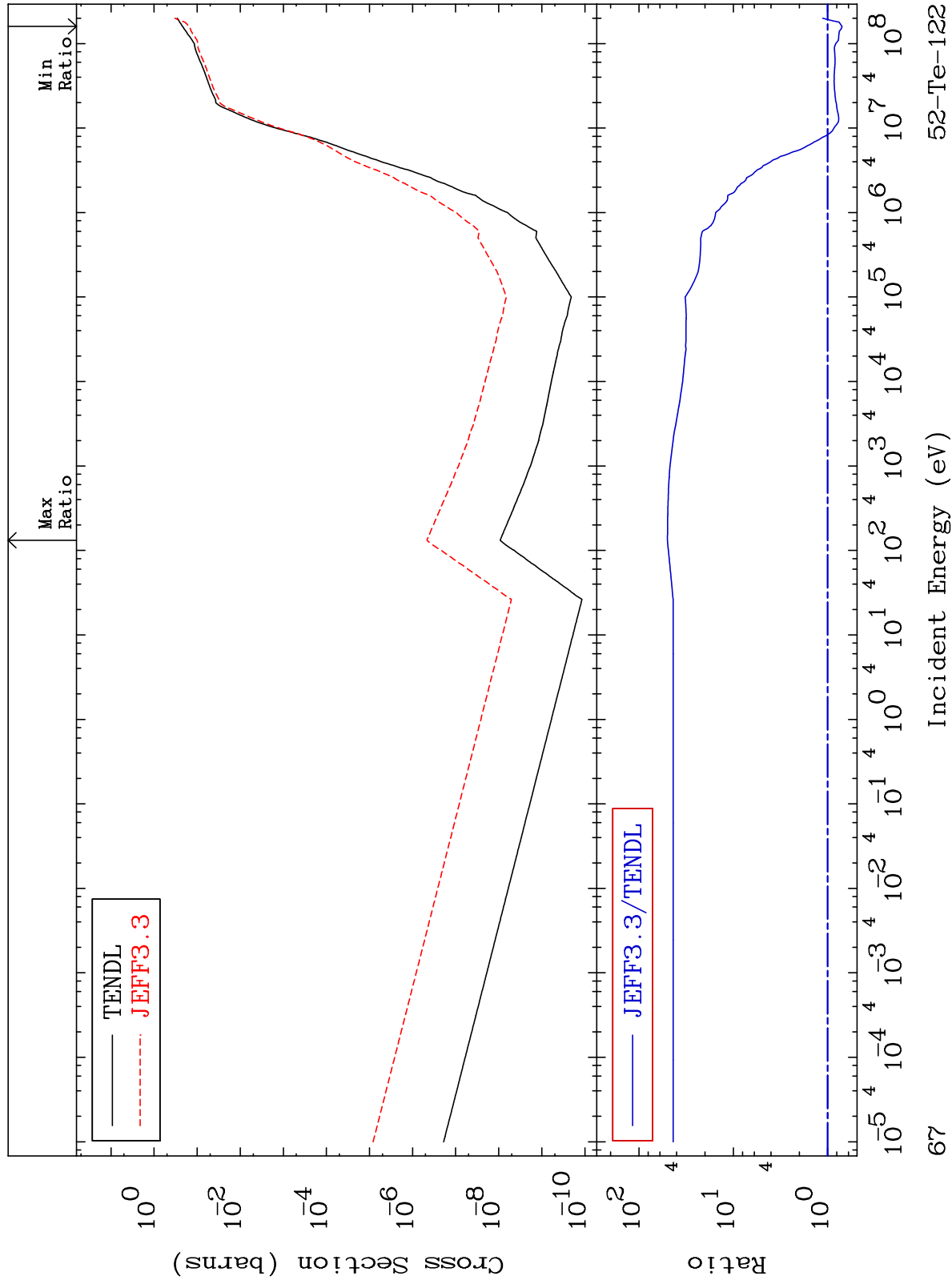
52-Te-122
-0.058 To 5.962 %



MAT 5231

He-4 Production
Cross Section

52-Te-122
-29.77 To 4899. %



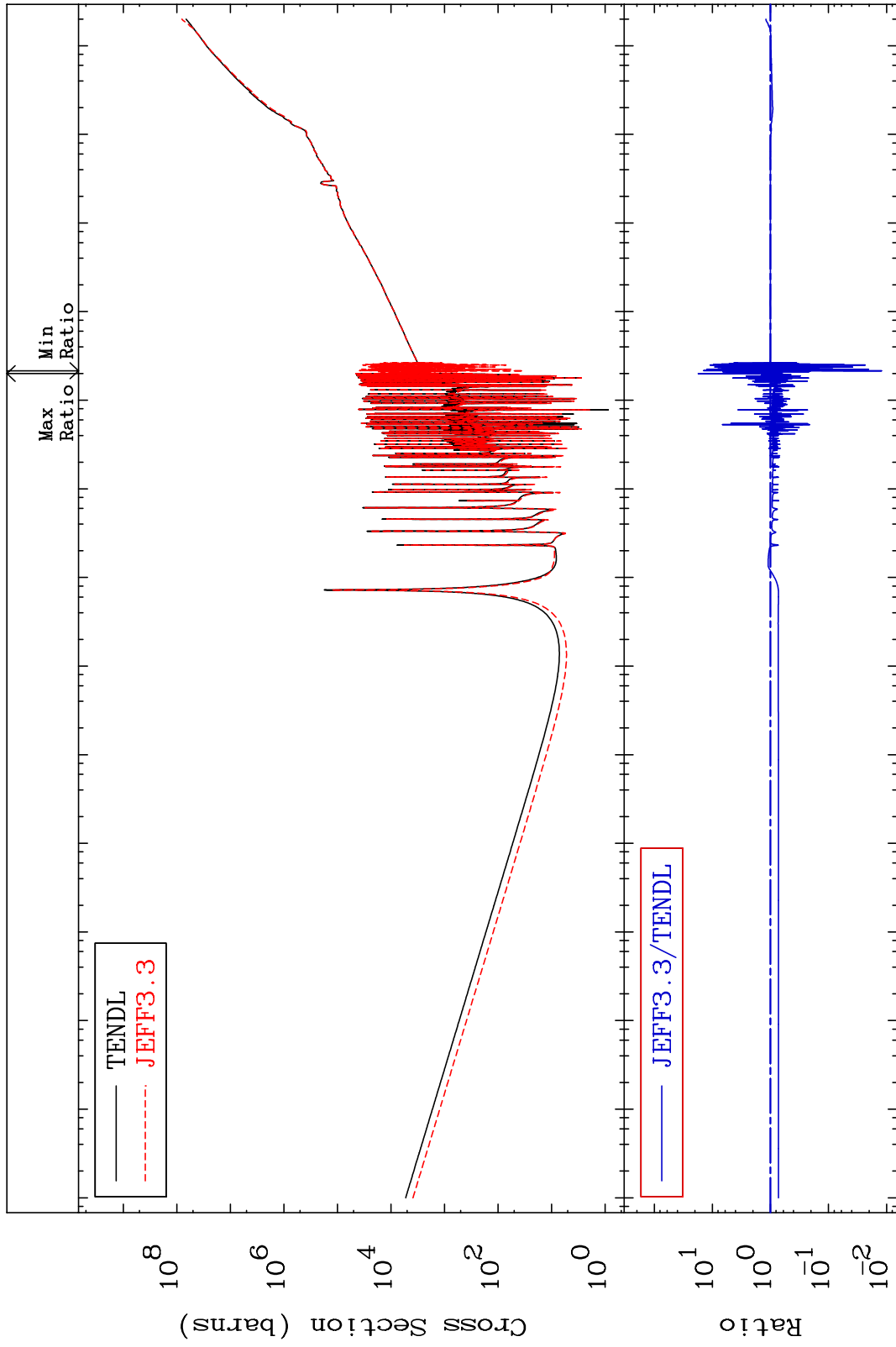
67

52-Te-122

MAT 5231

Kerma total (eV-barns)
Cross Section

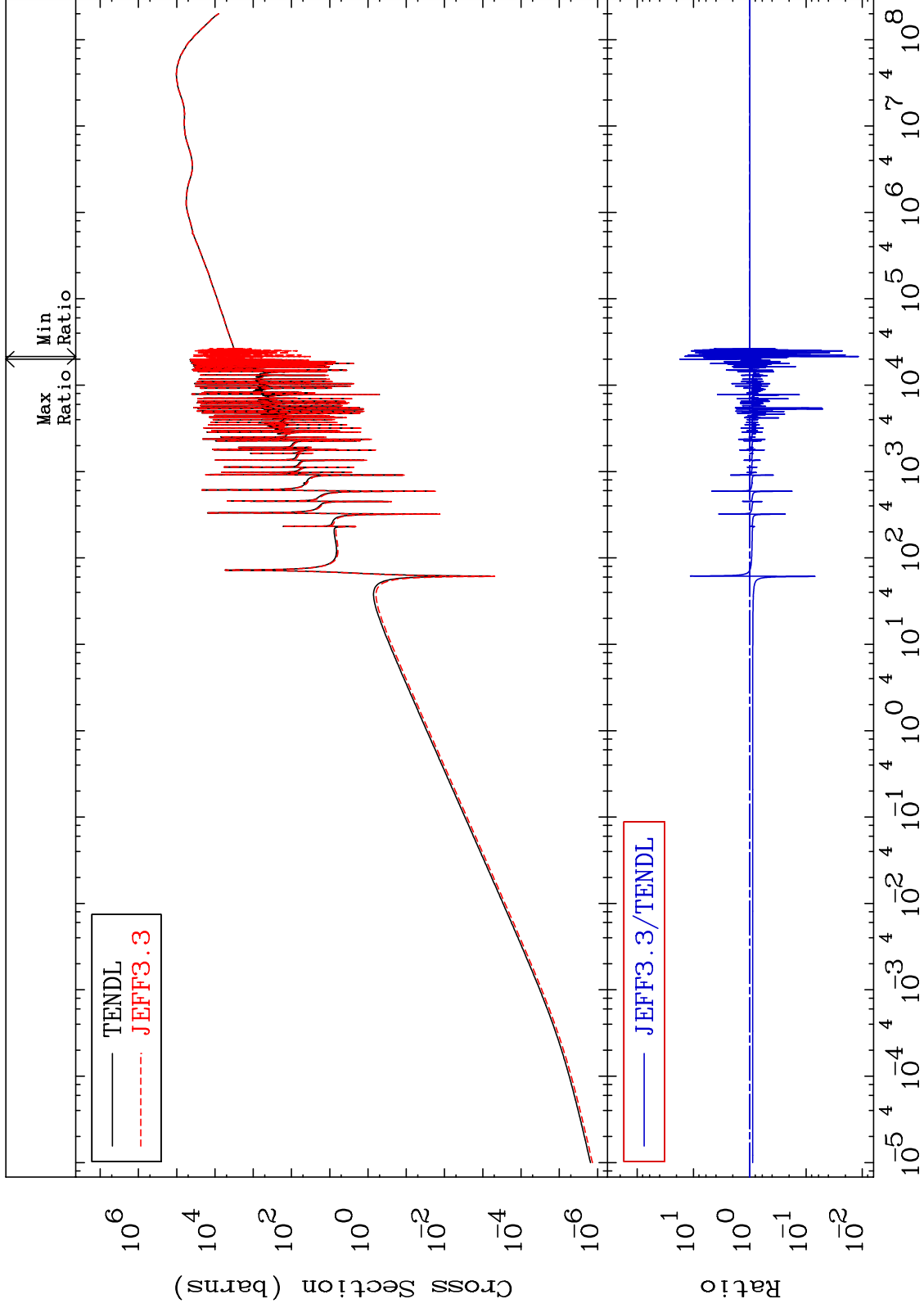
52-Te-122
-98.78 To 1643. %



MAT 5231

Kerma elastic
Cross Section

52-Te-122
-98.82 To 1649. %



69

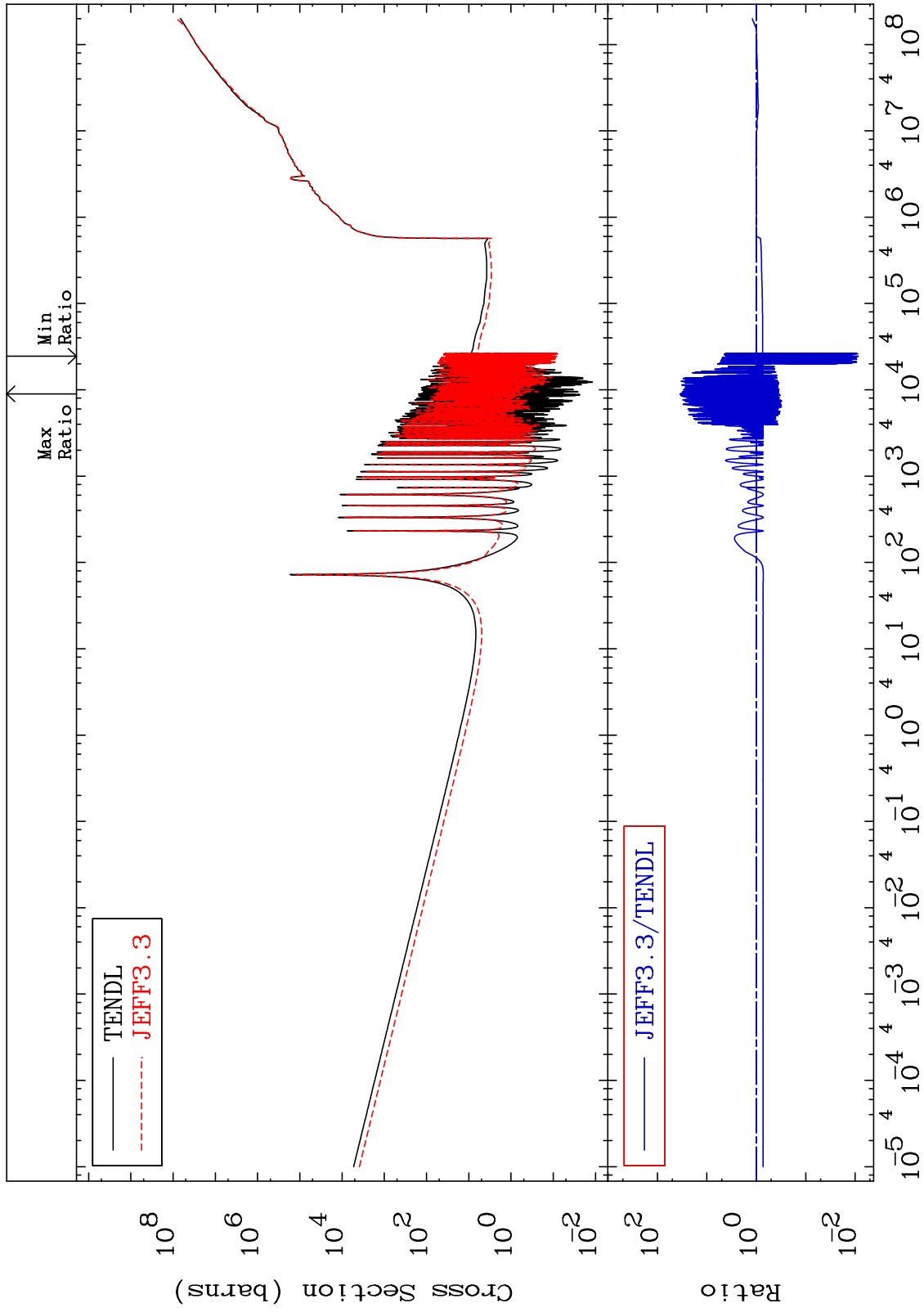
Incident Energy (eV)

52-Te-122

MAT 5231

Kerma non-elastic (all but mt2)
Cross Section

52-Te-122
-99.14 To 3392. %



70

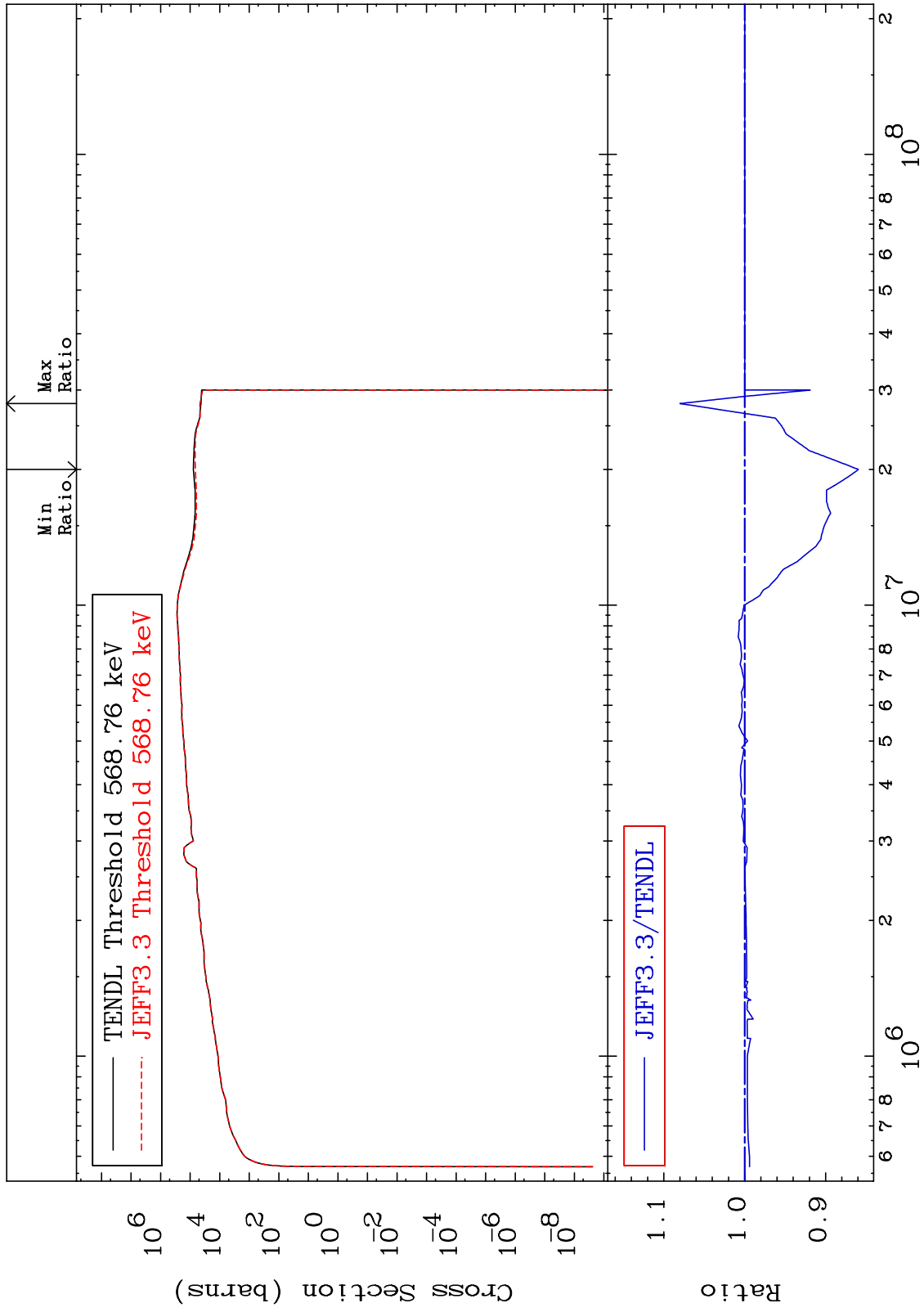
Incident Energy (eV)

52-Te-122

MAT 5231

Kerma inelastic (mt51-91)
Cross Section

52-Te-122
-14.06 To 7.993 %



71

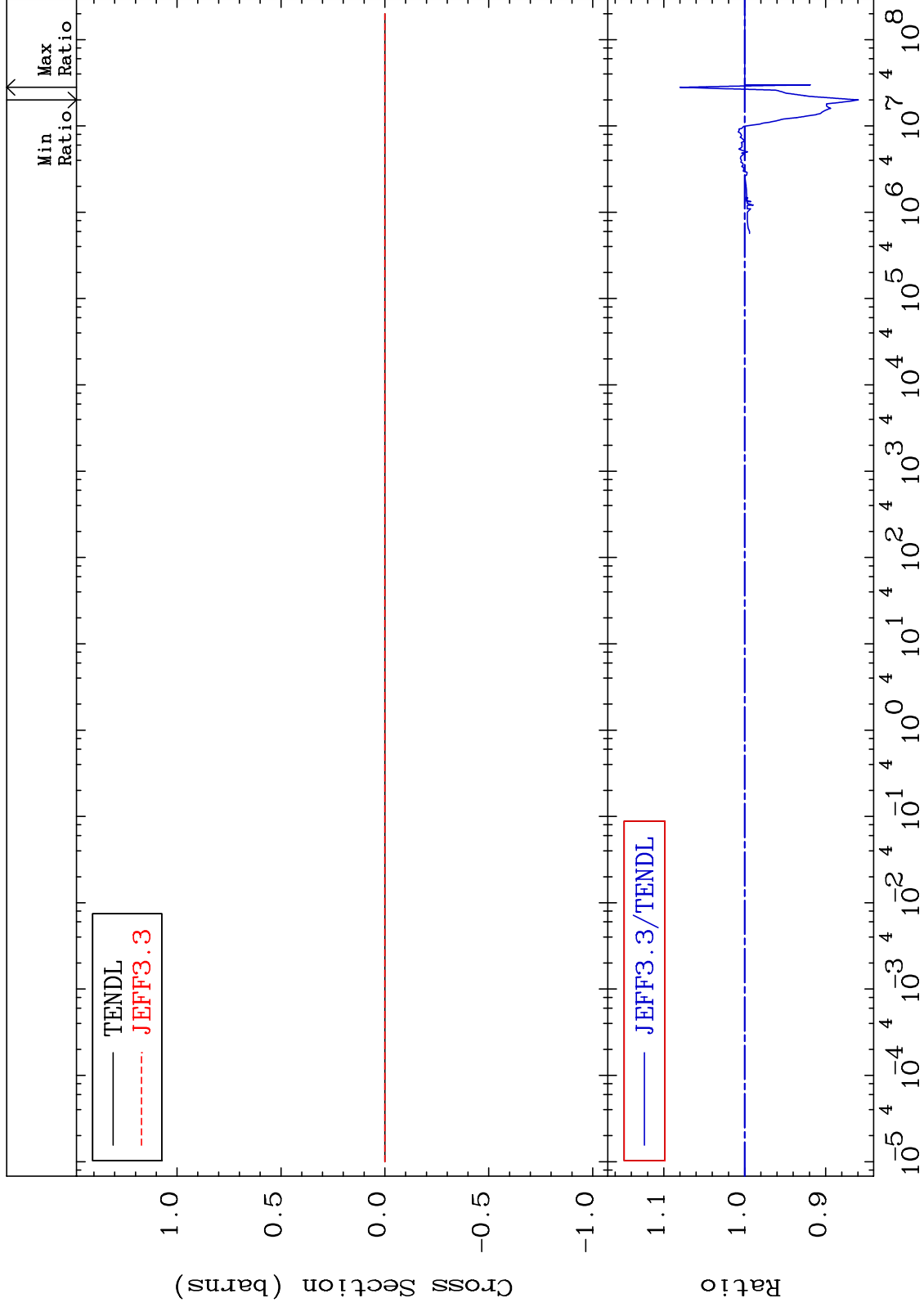
Incident Energy (eV)

52-Te-122

MAT 5231

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

52-Te-122
-14.06 To 7.993 %



72

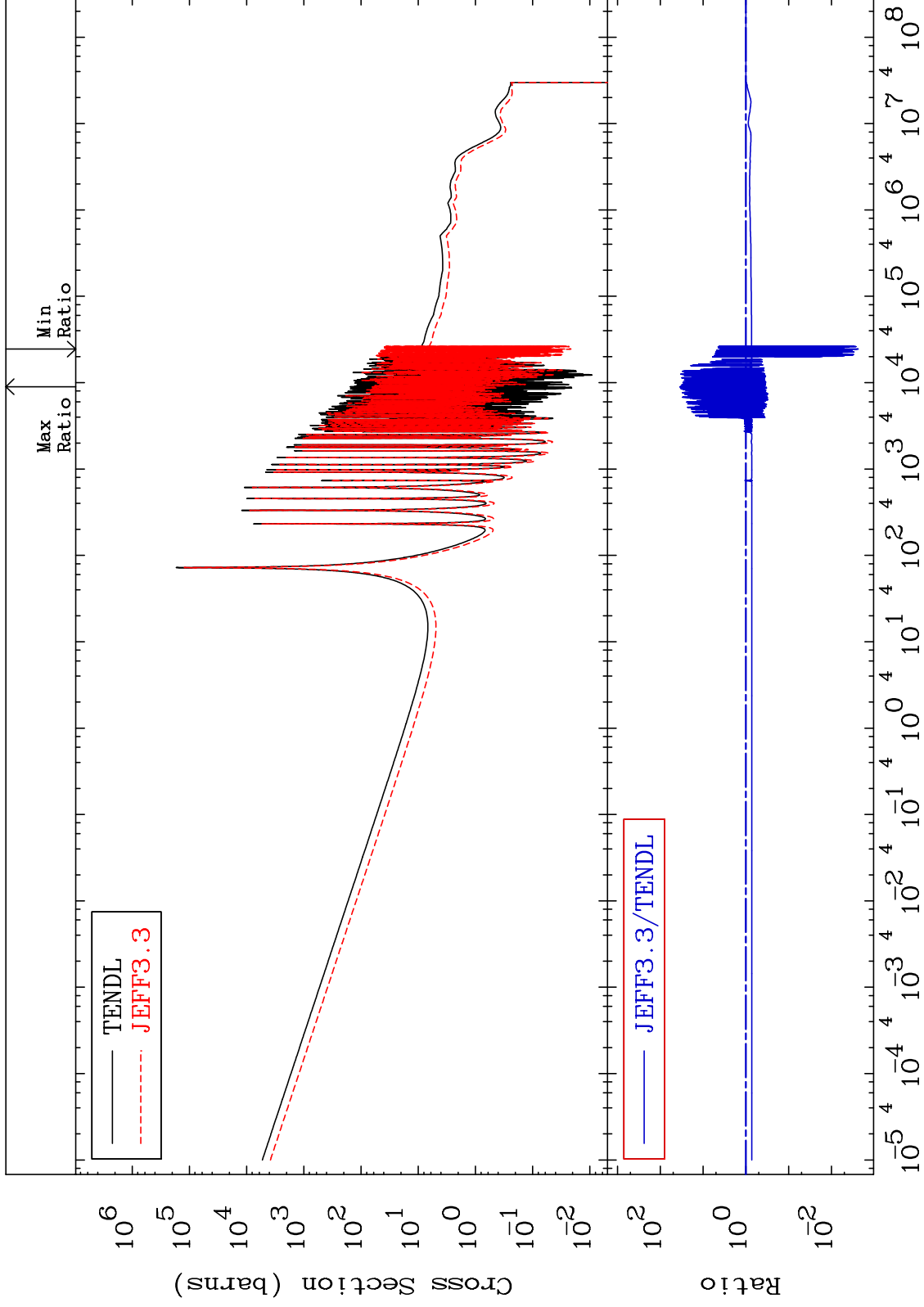
Incident Energy (eV)

52-Te-122

MAT 5231

Kerma capture (mt102)
Cross Section

52-Te-122
-99.77 To 3396. %



73

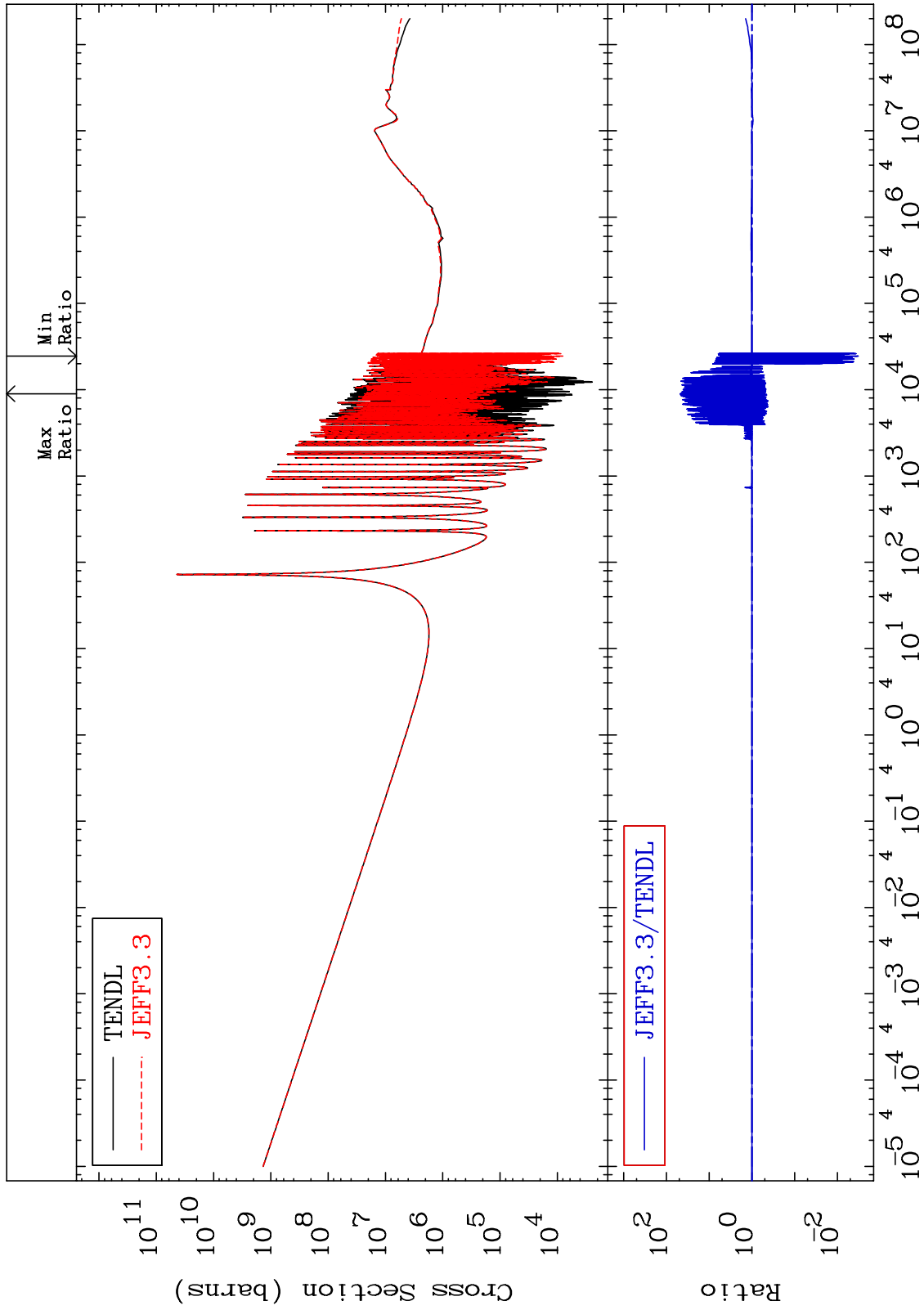
Incident Energy (eV)

52-Te-122

MAT 5231

Total photon (eV-barns)
Cross Section

52-Te-122
-99.68 To 4714. %



74

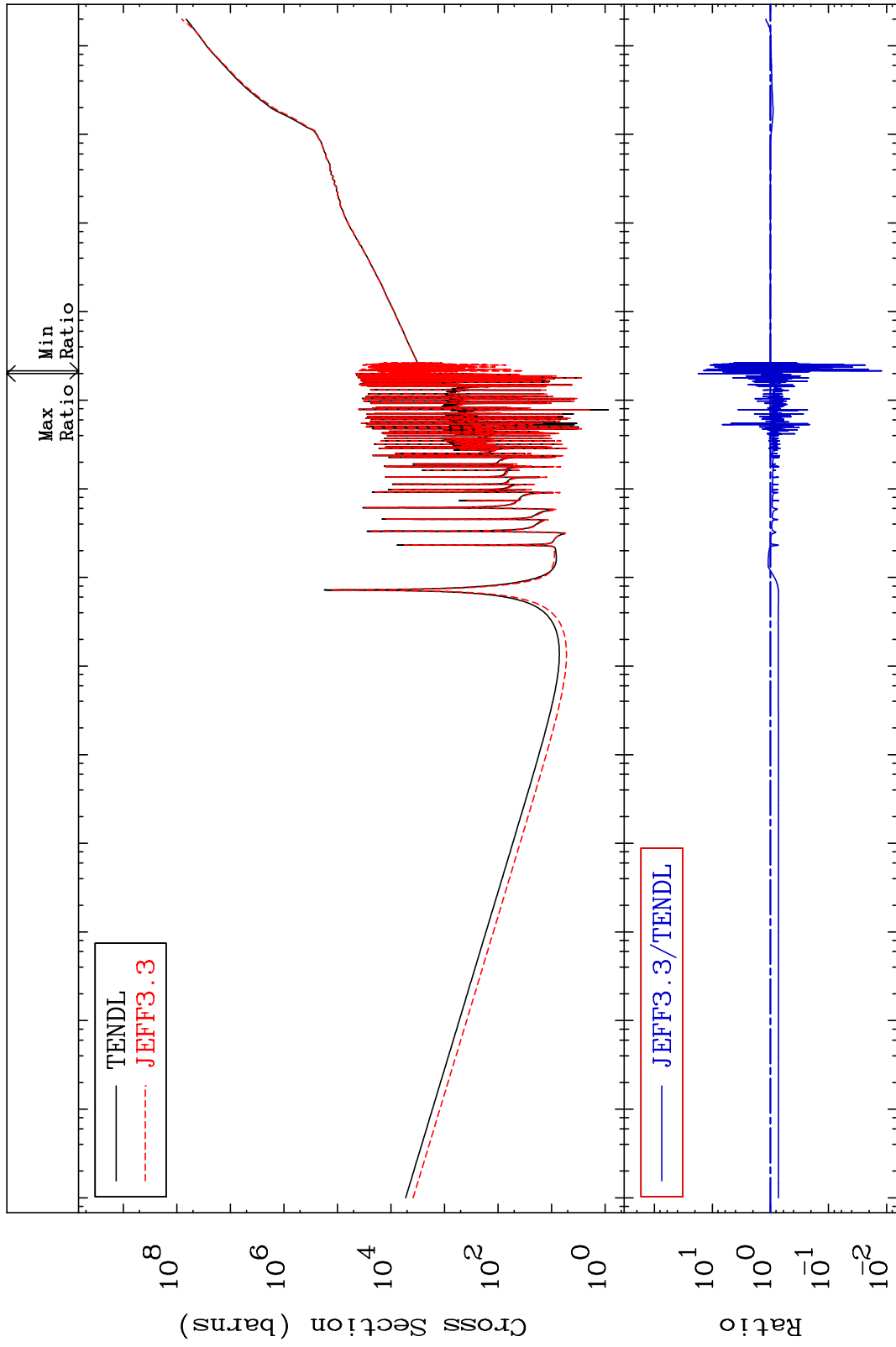
Incident Energy (eV)

52-Te-122

MAT 5231

Total kinematic kerma (high limit)
Cross Section

52-Te-122
-98.78 To 1643. %



75

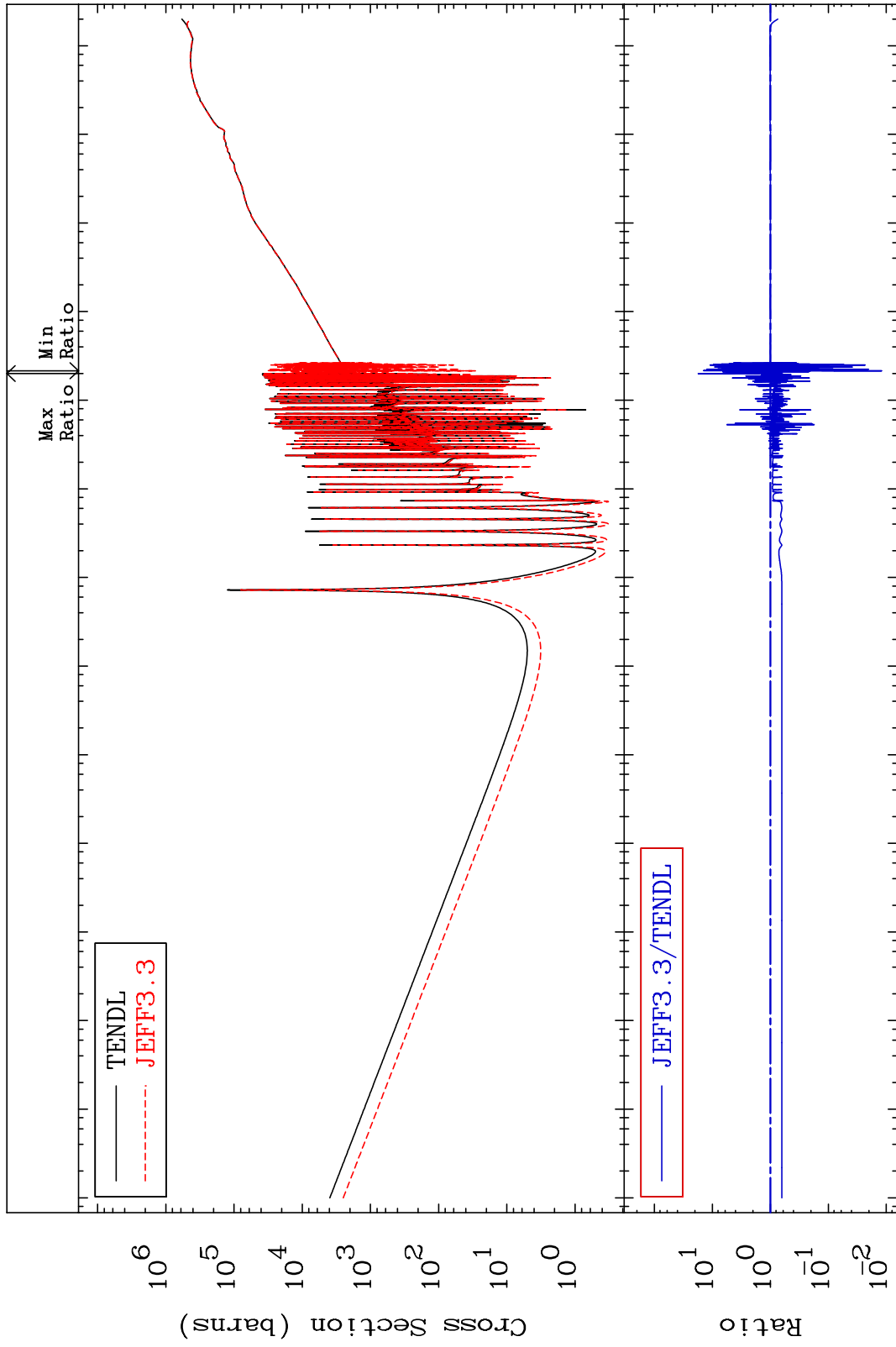
Incident Energy (eV)

52-Te-122

MAT 5231

Dpa total (eV-barns)
Cross Section

52-Te-122
-98.79 To 1644. %



76

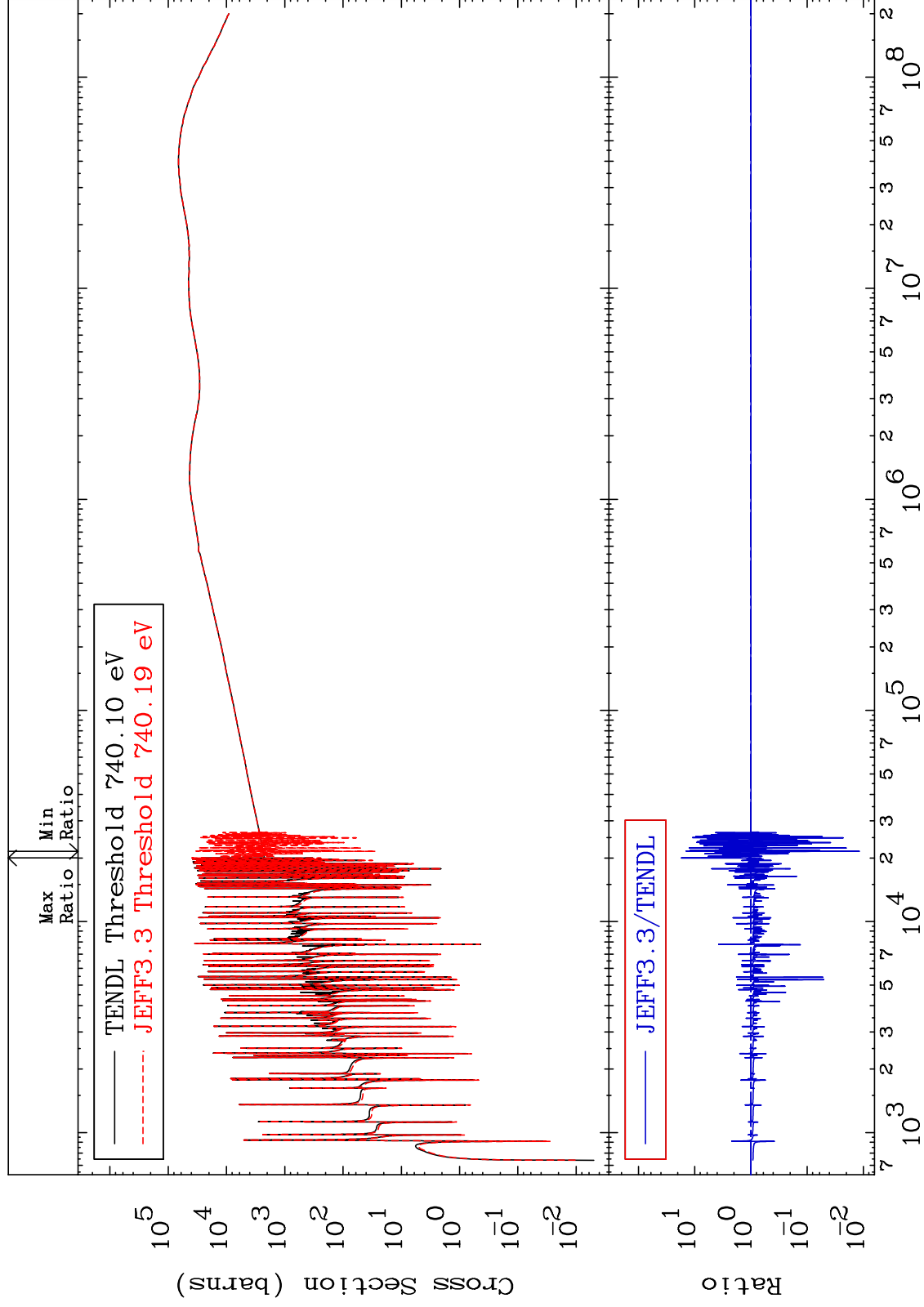
Incident Energy (eV)

52-Te-122

MAT 5231

Dpa elastic (mt2)
Cross Section

52-Te-122
-98.82 To 1649. %



77

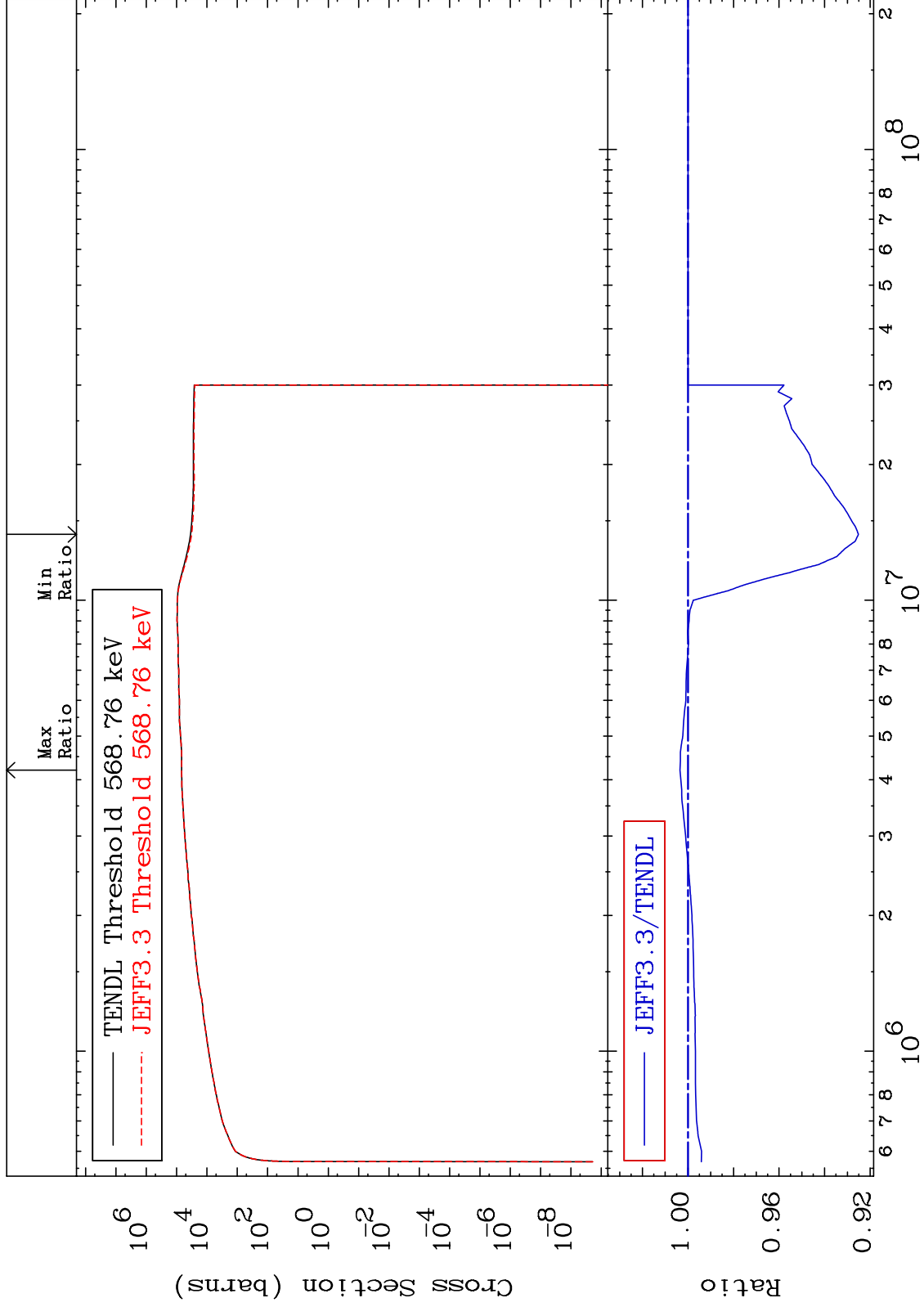
Incident Energy (eV)

52-Te-122

MAT 5231

Dpa inelastic (mt51-91)
Cross Section

52-Te-122
-7.485 To 0.350 %



78

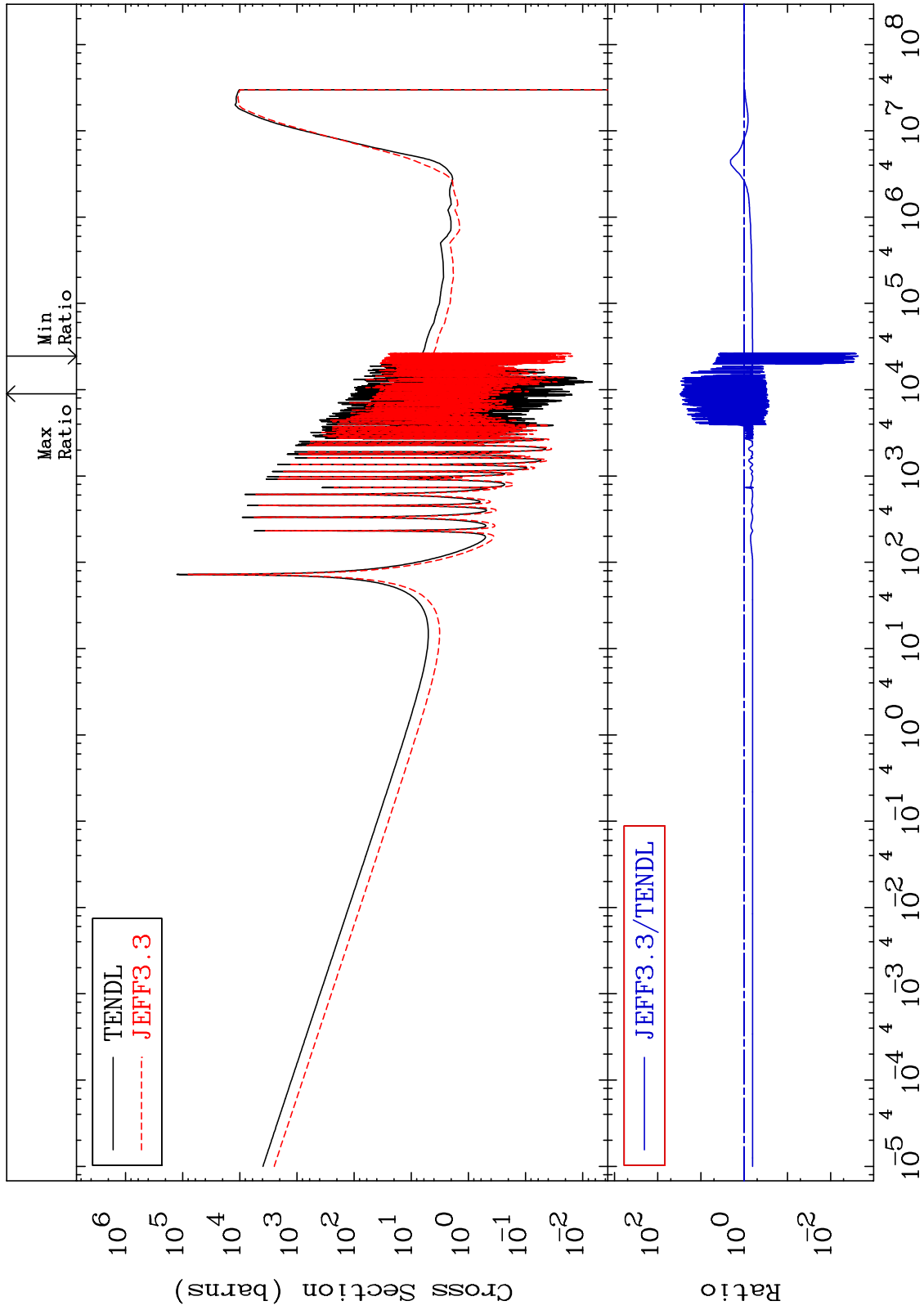
Incident Energy (eV)

52-Te-122

MAT 5231

Dpa disappearance (mt102 -120)
Cross Section

52-Te-122
-99.77 To 2954. %



79

Incident Energy (eV)

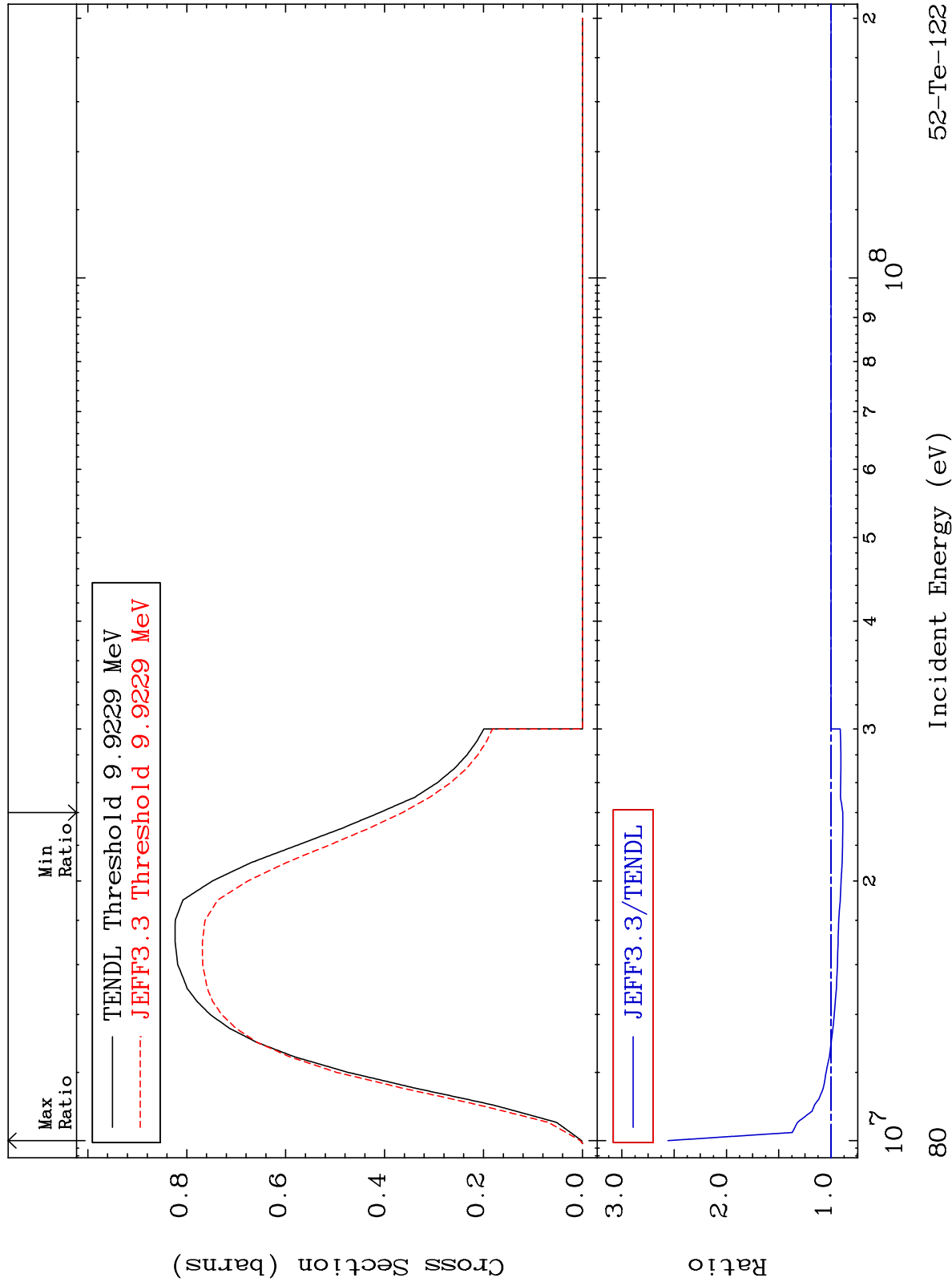
52-Te-122

MAT 5231

(n,2n):52-Te-121g

52-Te-122

Radionuclide Production Cross Section -11.28 To 155.9 %

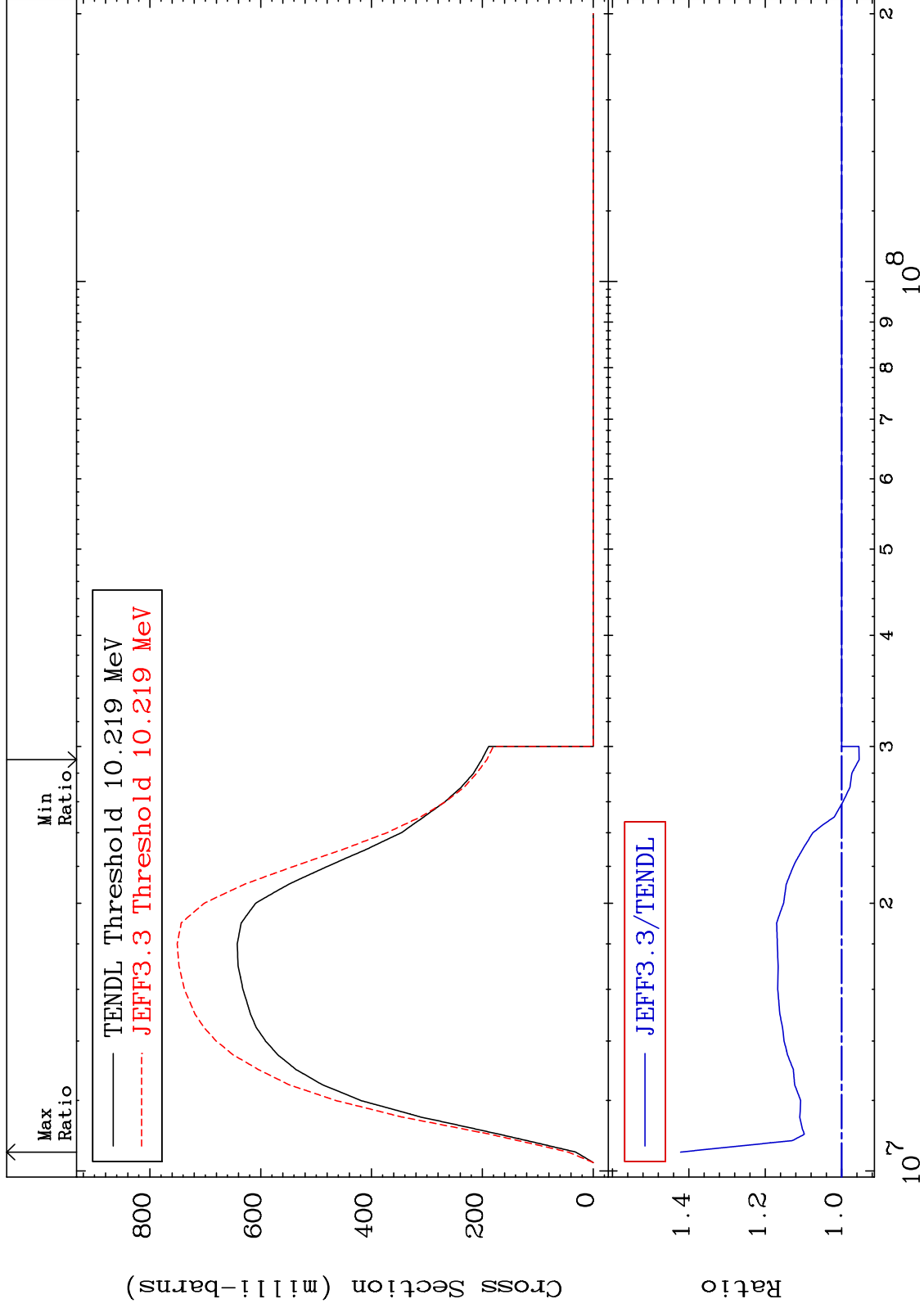


MAT 5231

(n,2n):52-Te-121m2

52-Te-122

Radionuclide Production Cross Section -4.582 To 42.17 %



81

Incident Energy (eV)

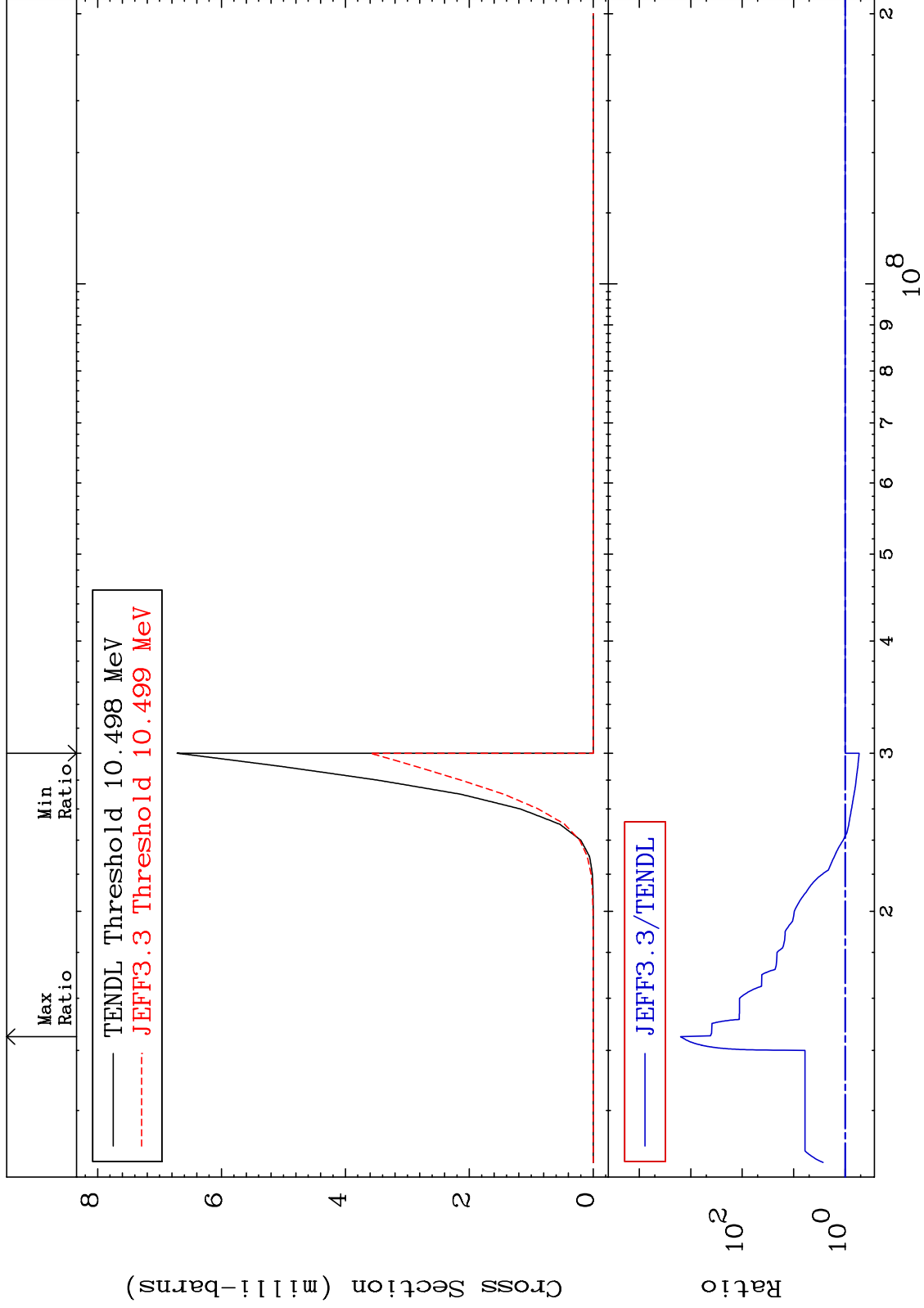
52-Te-122

MAT 5231

(n,2n) α :50-Sn-117g

52-Te-122

Radionuclide Production Cross Section -46.43 To 9999. %

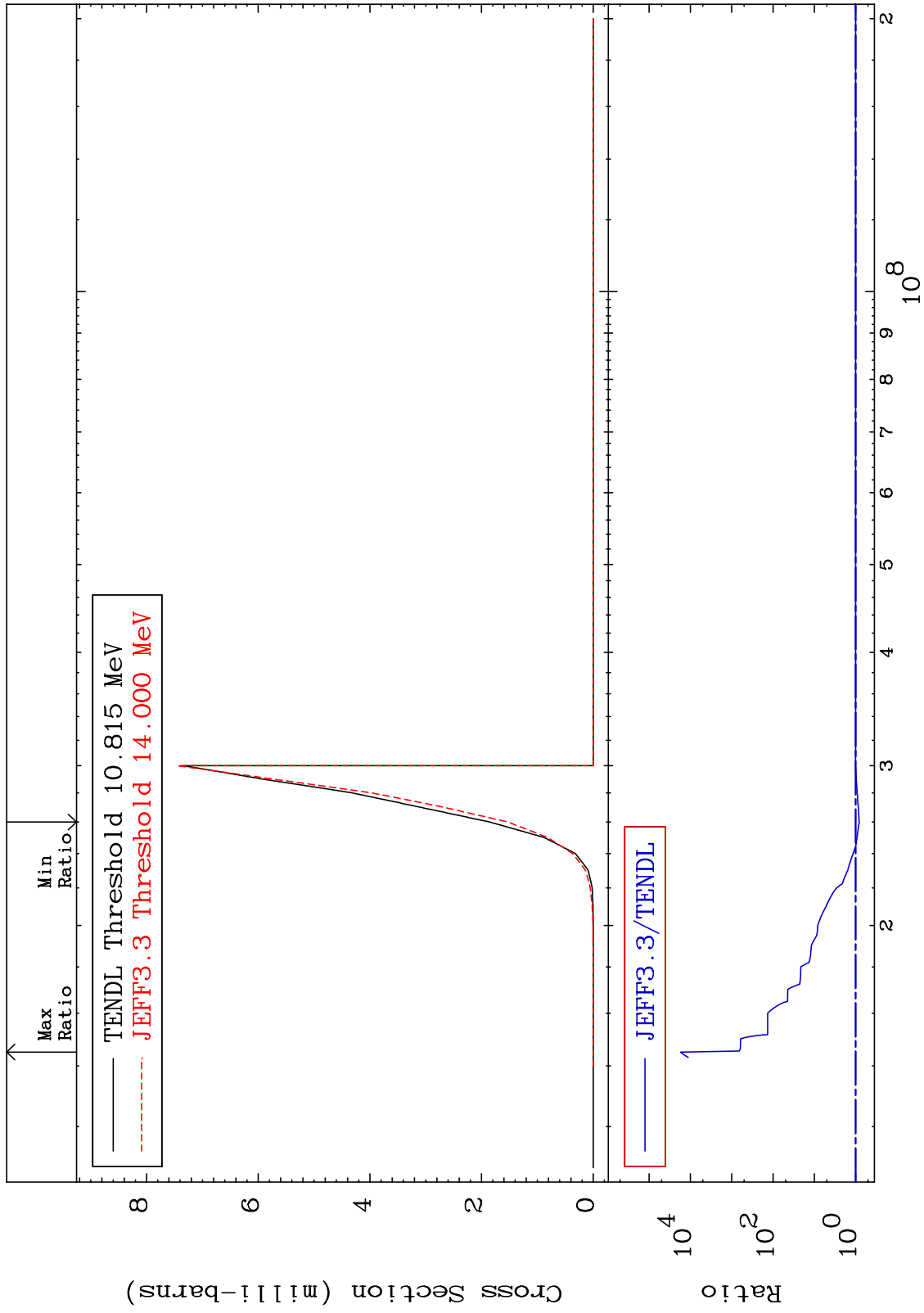


MAT 5231

(n,2n) α :50-Sn-117m2

52-Te-122

Radionuclide Production Cross Section -17.64 To 9999. %

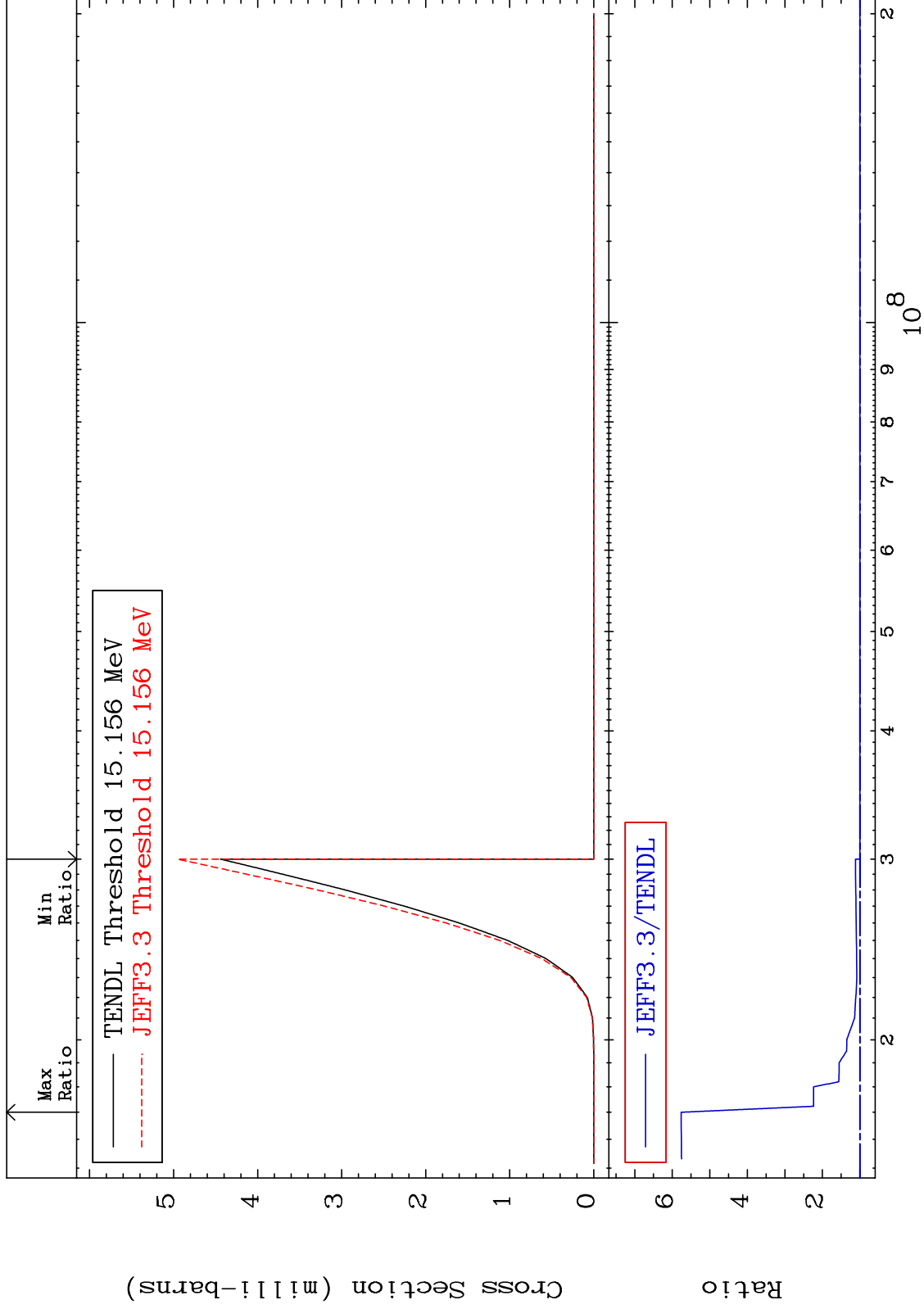


MAT 5231

(n, n') d:51-Sb-120g

52-Te-122

Radionuclide Production Cross Section 0.000 To 476.2 %

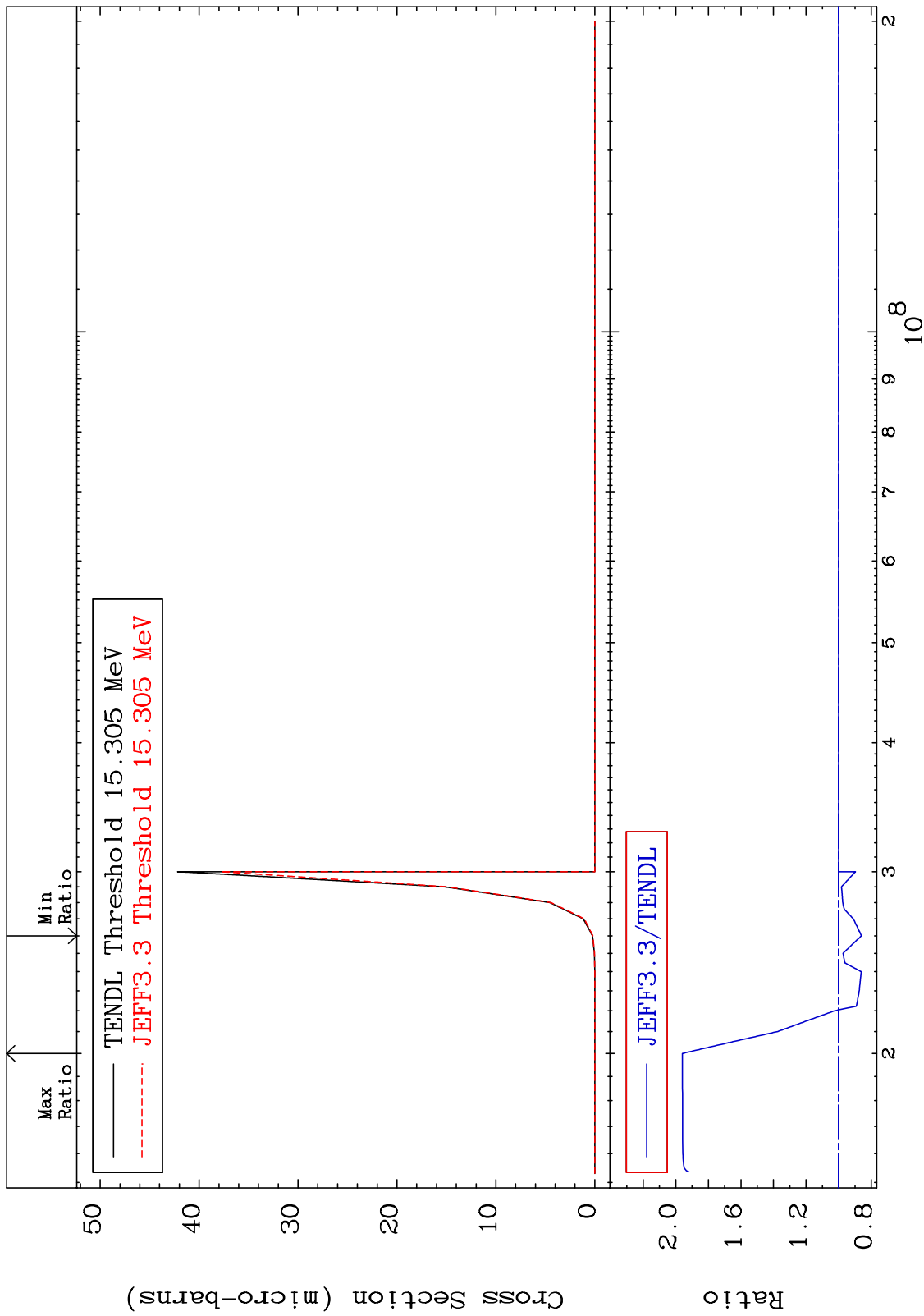


MAT 5231

(n, n') He-3:50-Sn-119g

52-Te-122

Radionuclide Production Cross Section -13.96 To 95.89 %

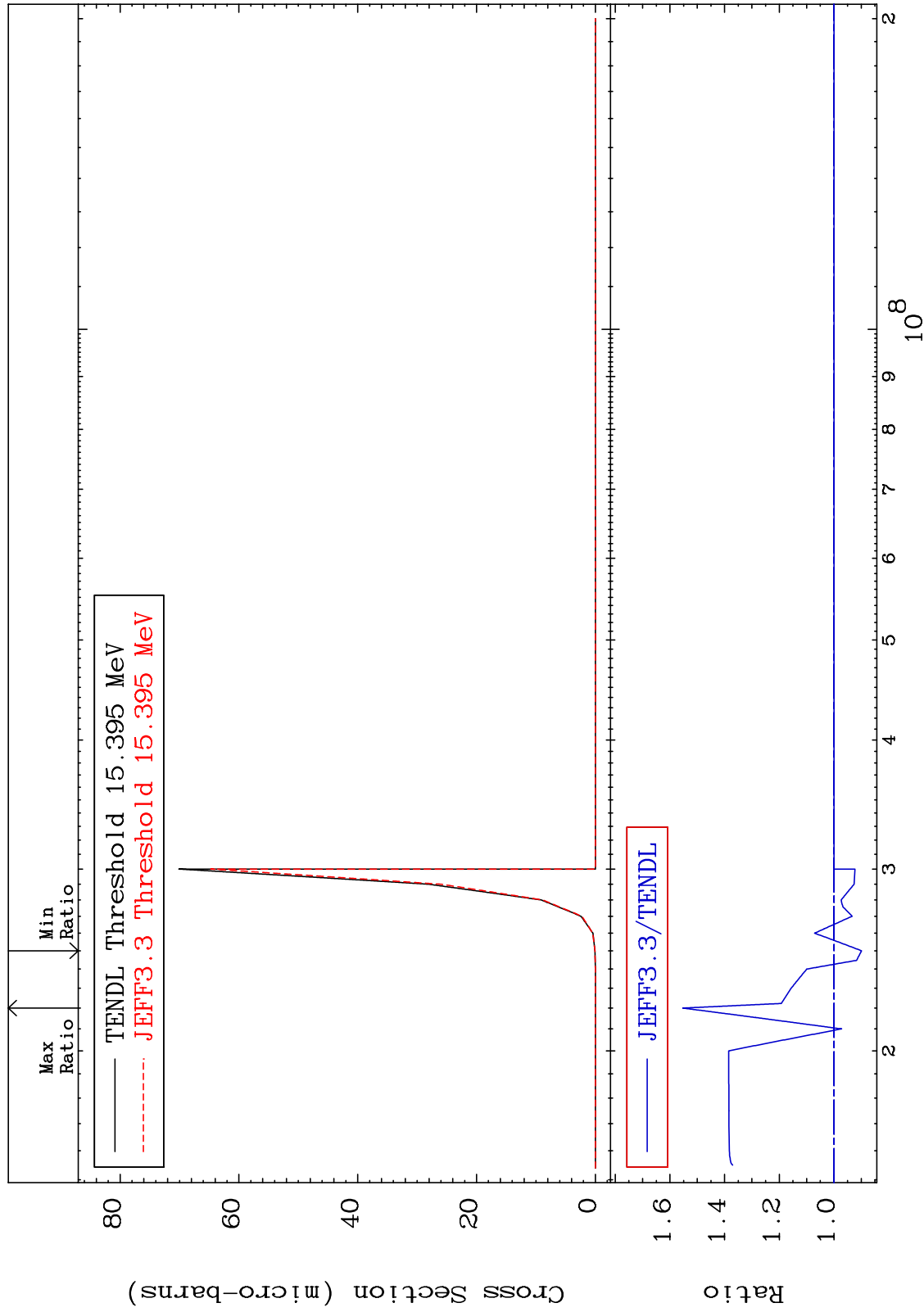


MAT 5231

(n, n') He-3:50-Sn-119m2

52-Te-122

Radionuclide Production Cross Section -10.11 To 55.27 %

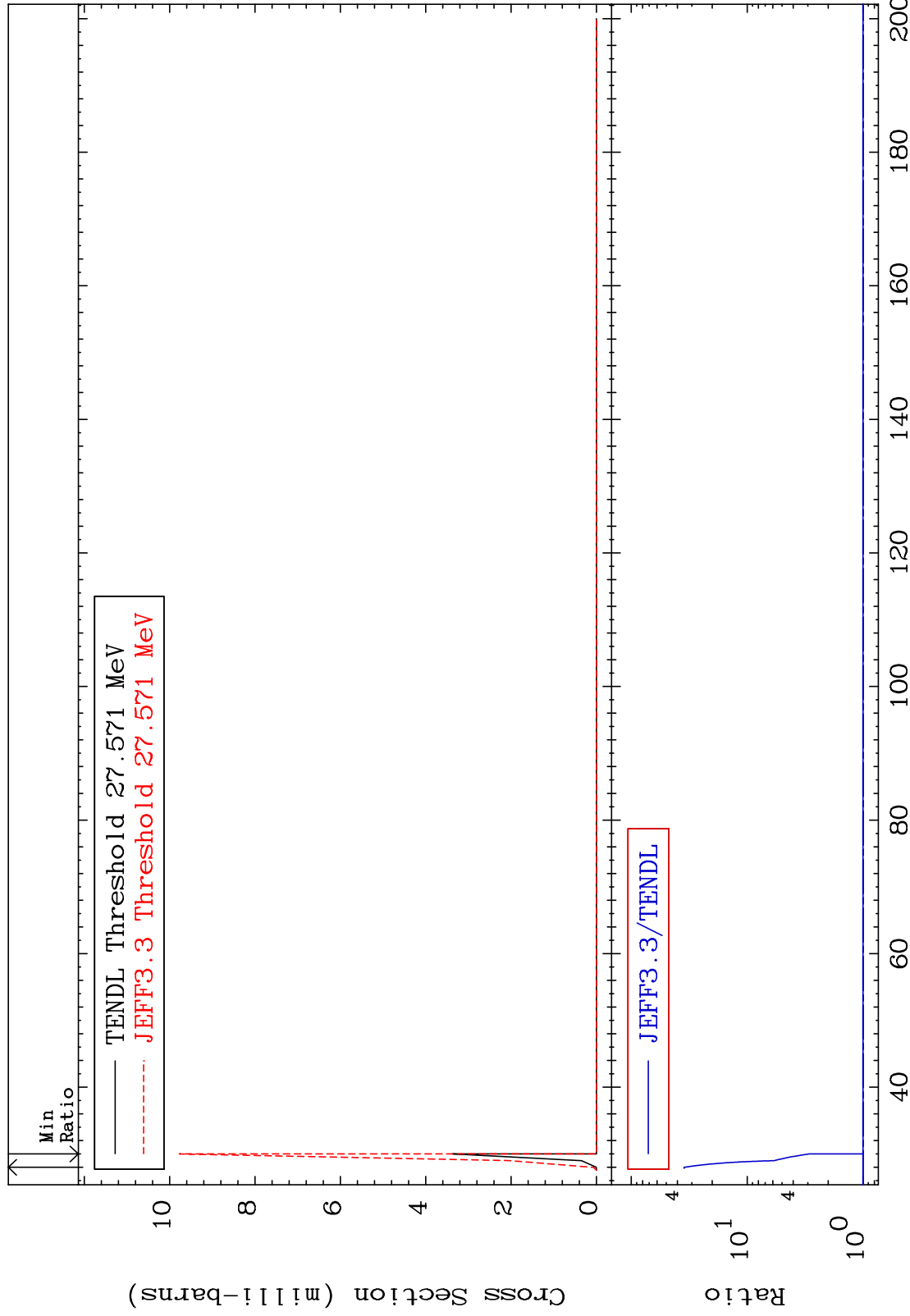


MAT 5231

(n,4n):52-Te-119g

52-Te-122

Radionuclide Production Cross Section 0.000 To 3408. %

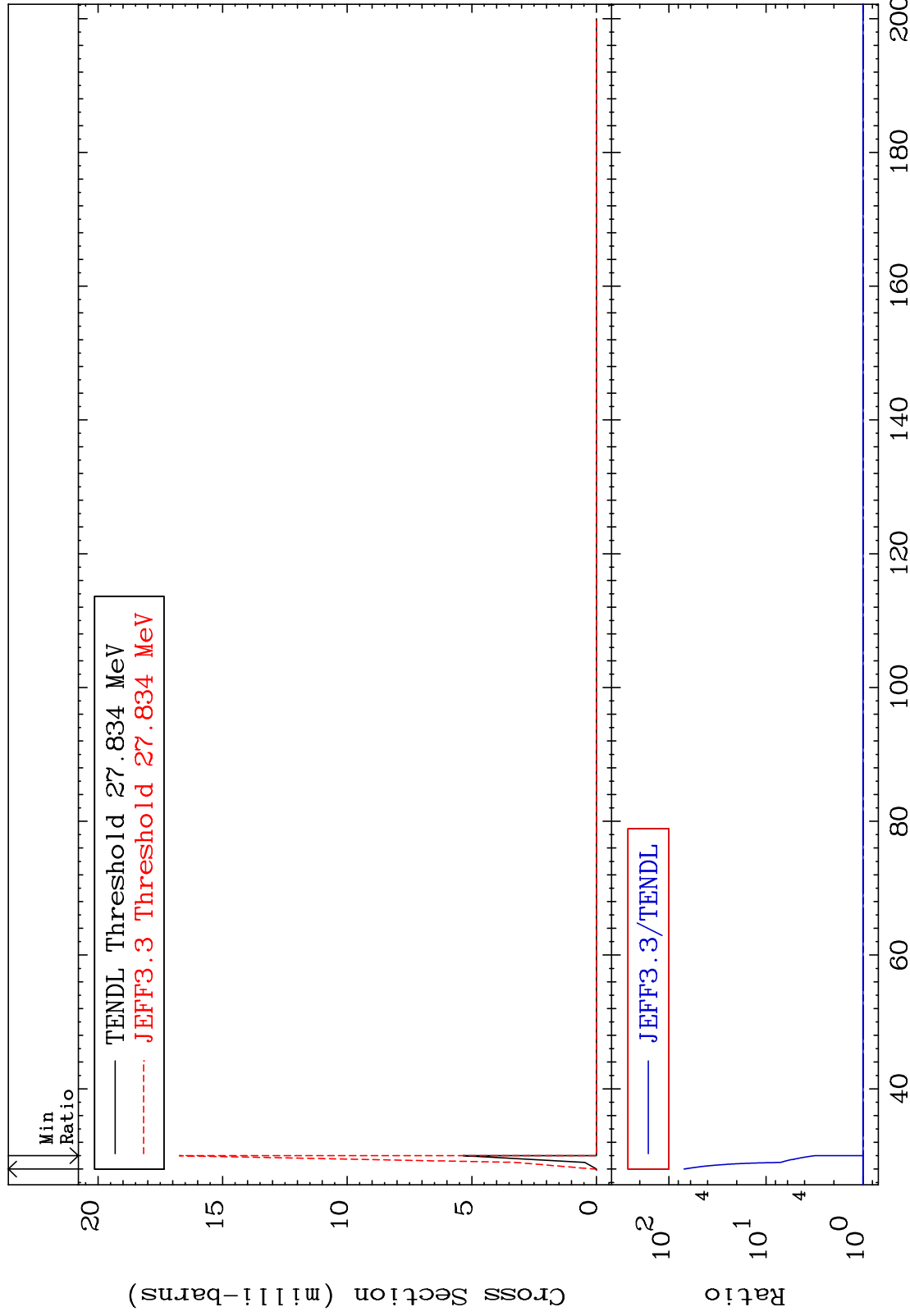


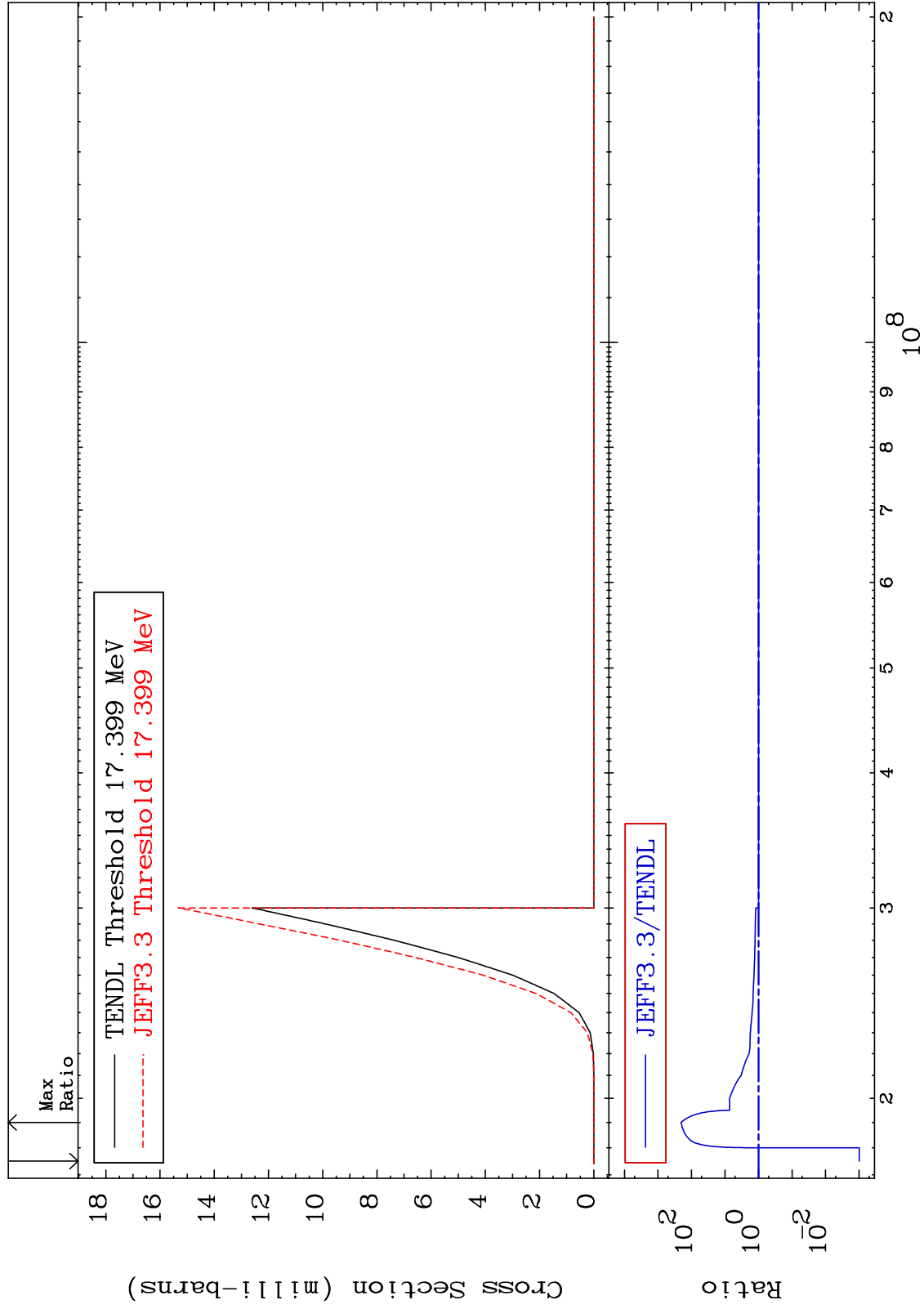
MAT 5231

(n, 4n):52-Te-119m2

52-Te-122

Radionuclide Production Cross Section 0.000 To 6884. %



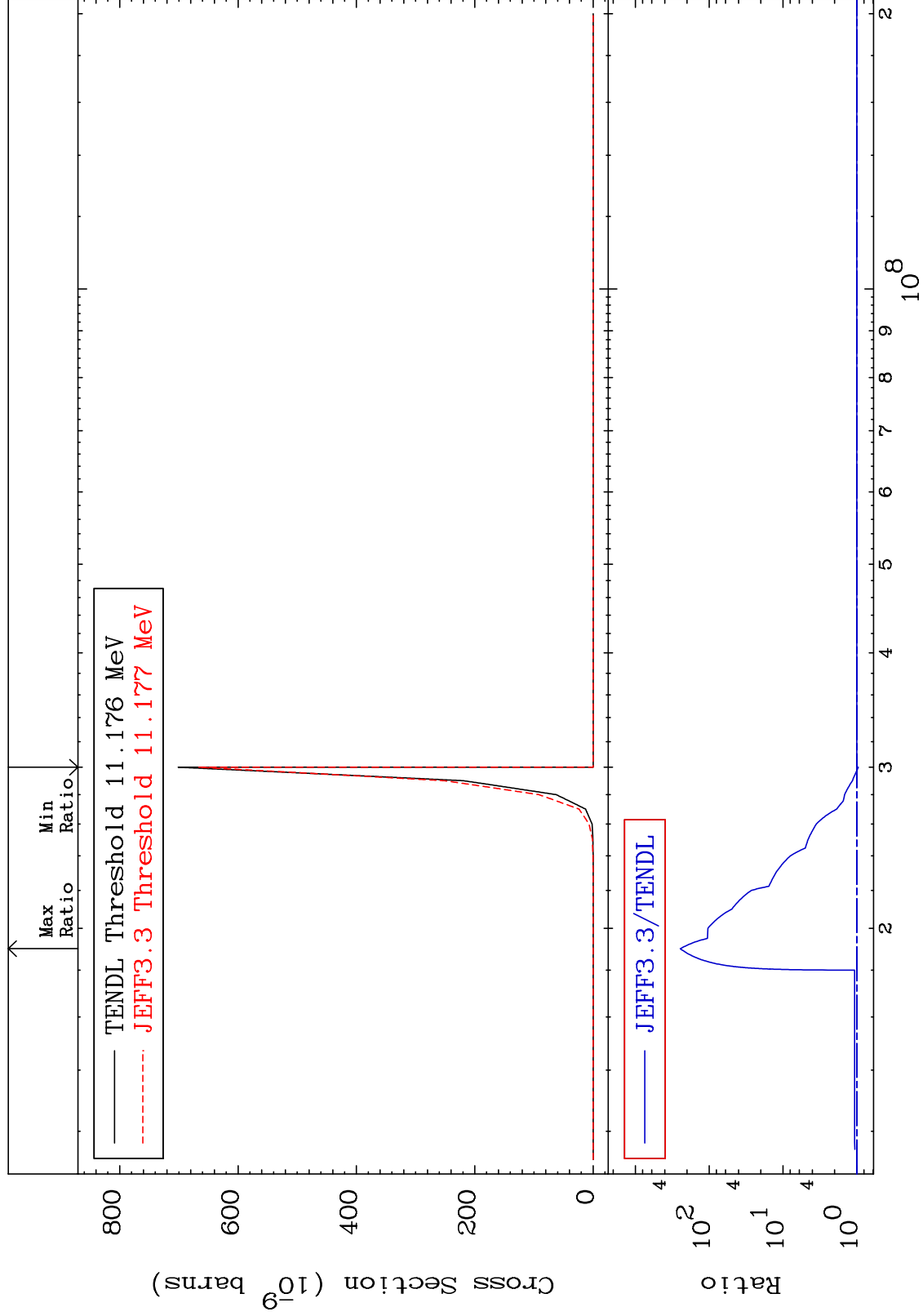


MAT 5231

(n, n') p α : 49-In-117g

52-Te-122

Radionuclide Production Cross Section -4.840 To 9999. %

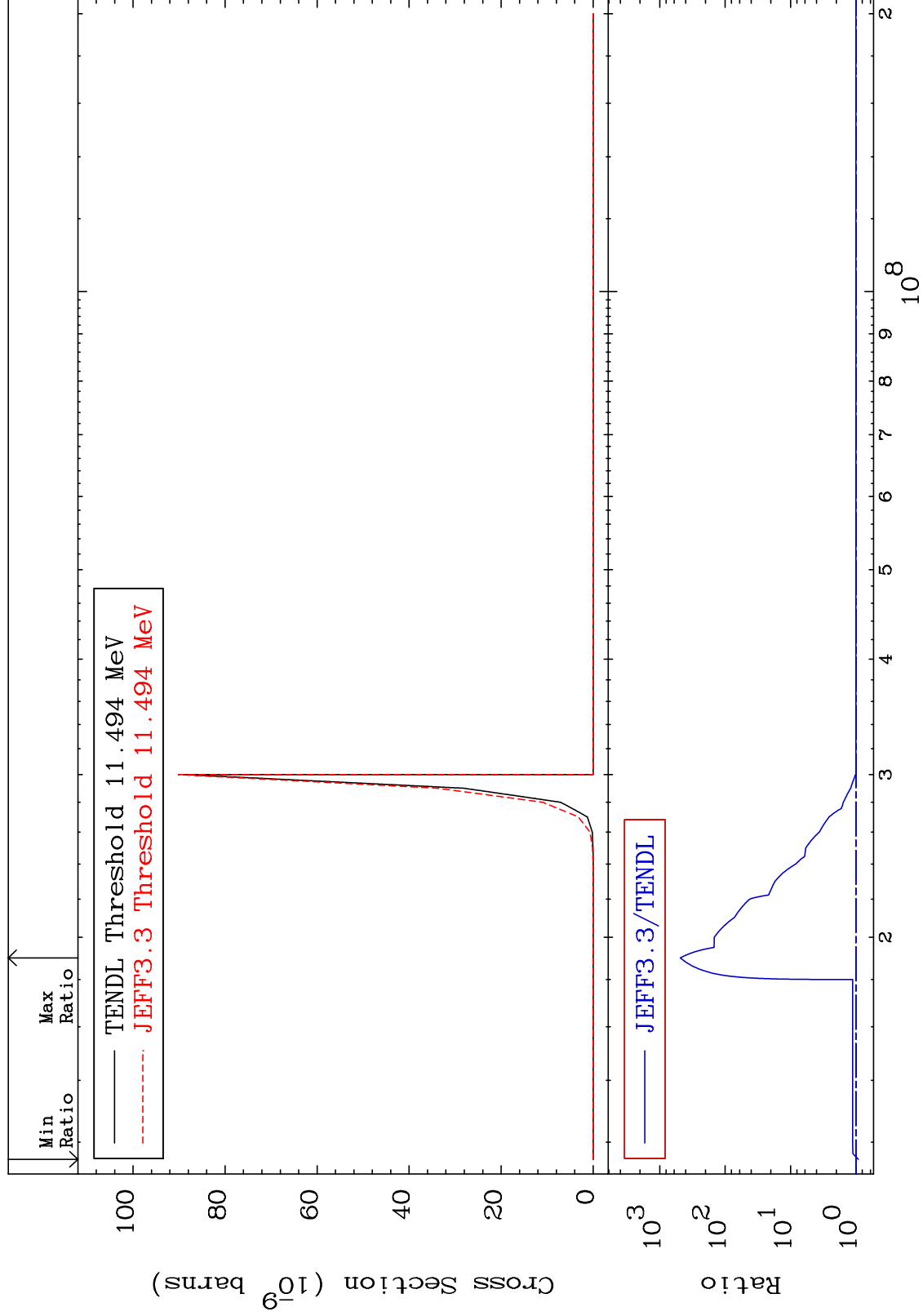


MAT 5231

(n, n') p α : 49-In-117m1

52-Te-122

Radionuclide Production Cross Section -8.246 To 9999. %



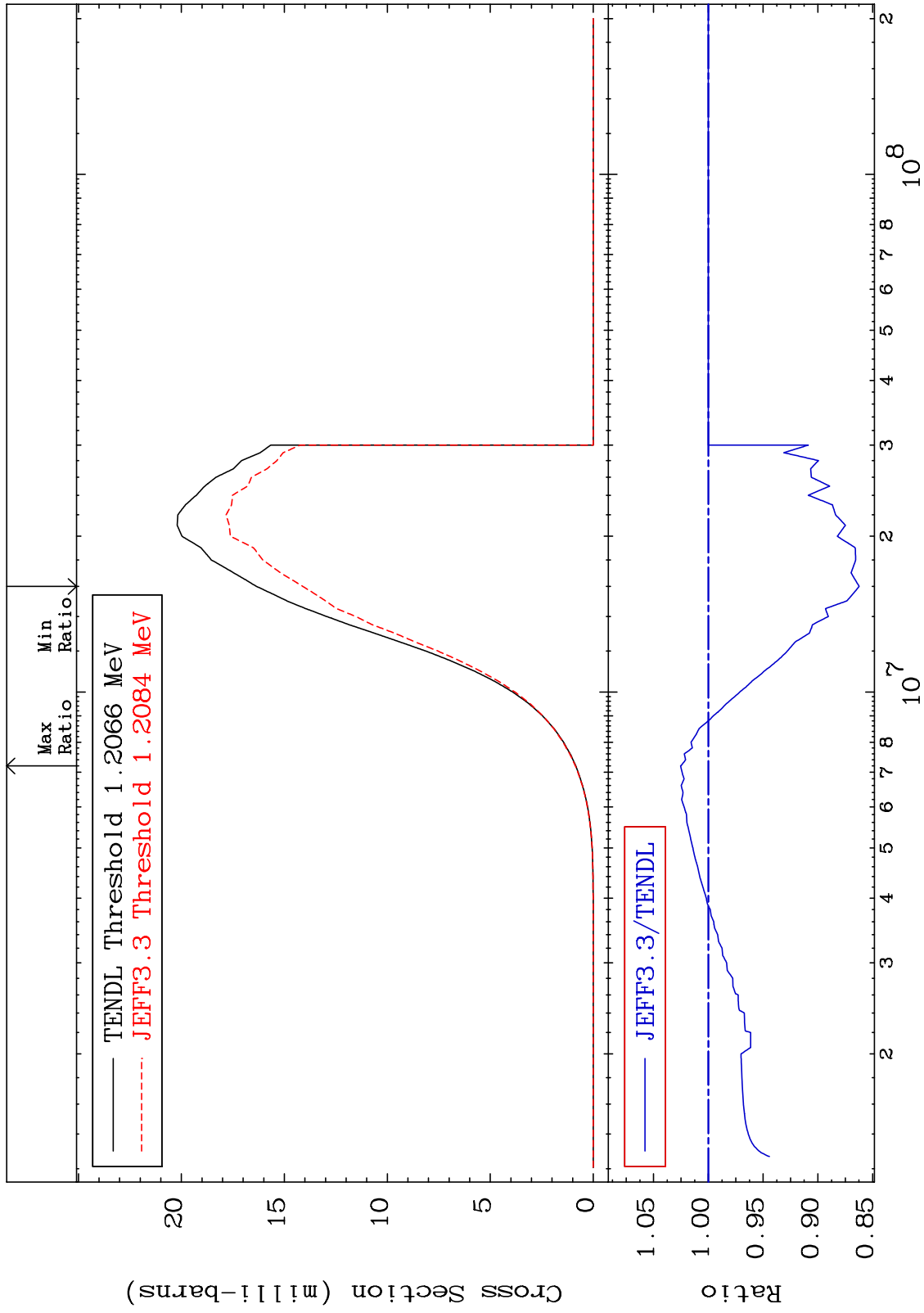
MAT 5231

(n,p):51-Sb-122g

52-Te-122

Radionuclide Production Cross Section

-13.77 To 2.530 %

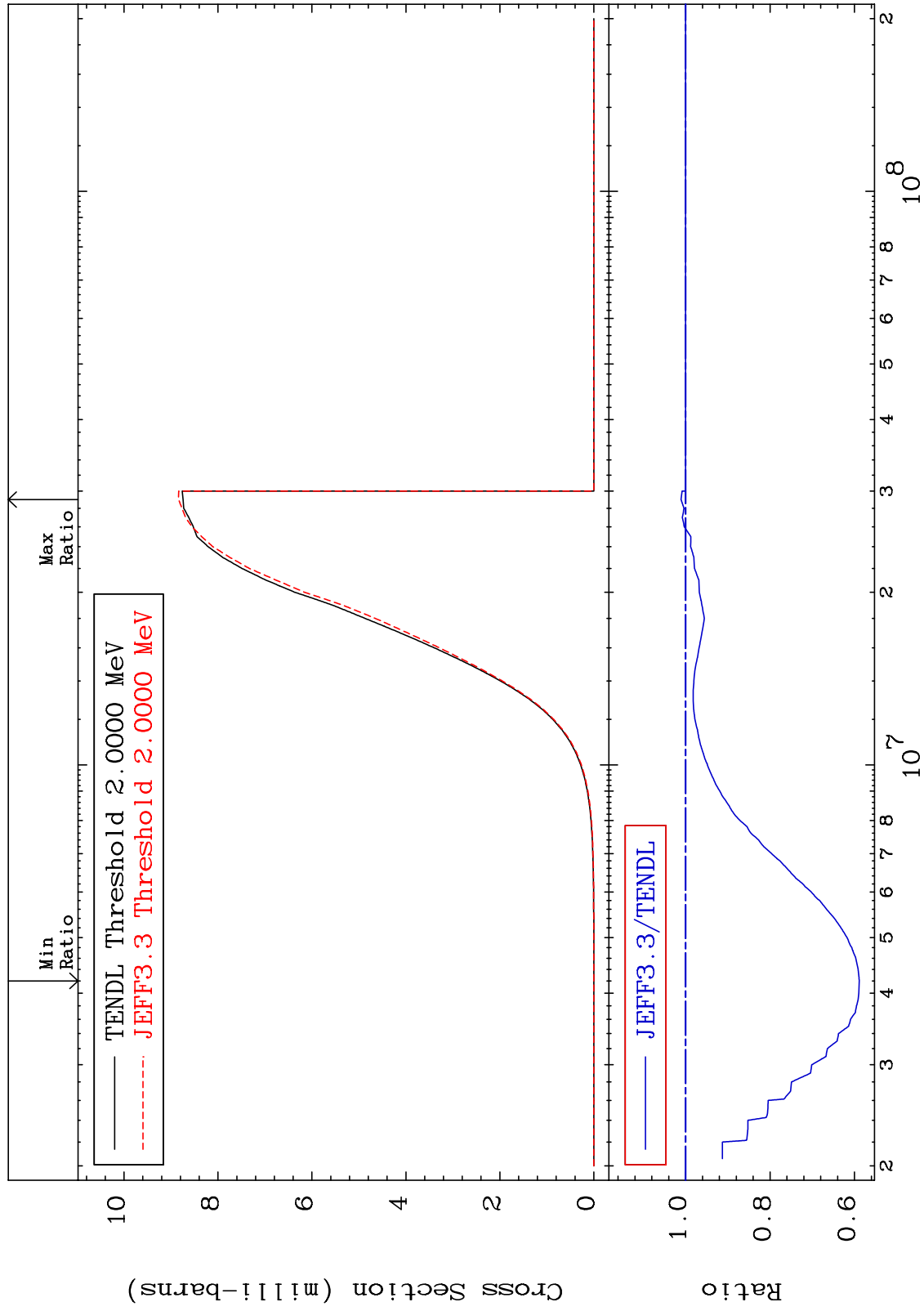


MAT 5231

(n, p) : 51-Sb-122m5

52-Te-122

Radionuclide Production Cross Section -41.12 To 1.090 %



93

Incident Energy (eV)

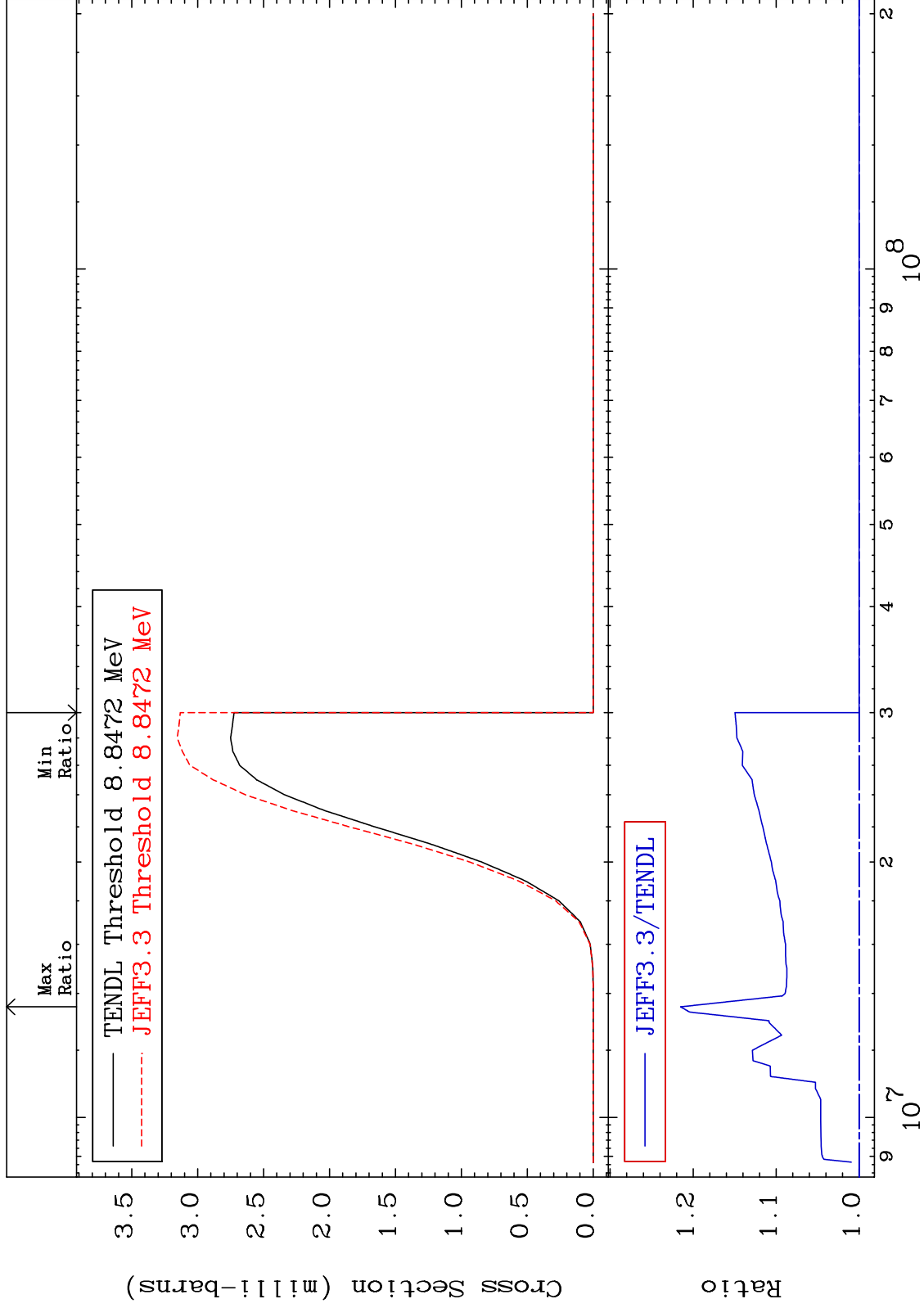
52-Te-122

MAT 5231

(n, t):51-Sb-120g

52-Te-122

Radionuclide Production Cross Section 0.000 To 21.51 %



94

Incident Energy (eV)

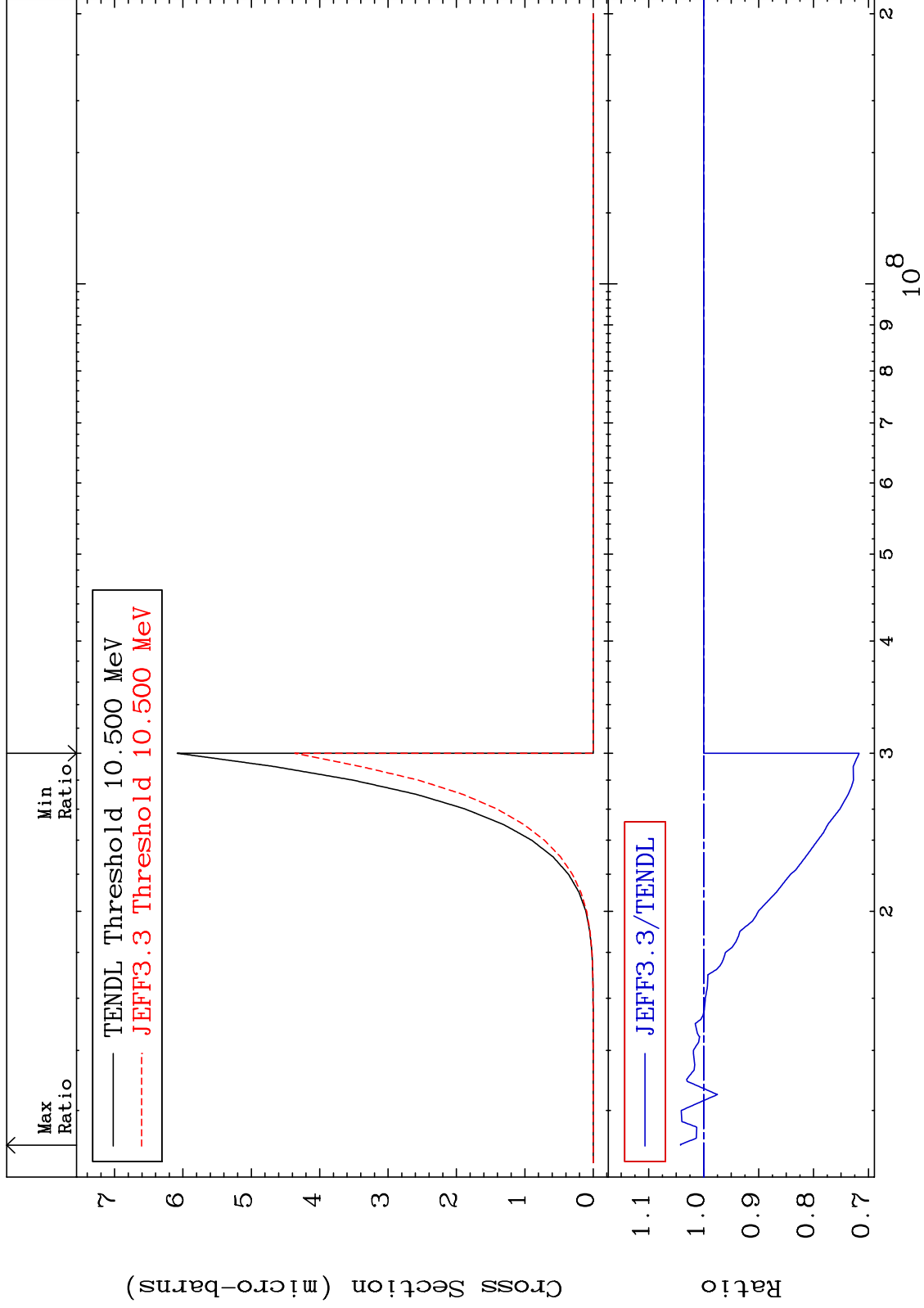
52-Te-122

MAT 5231

(n,2p):50-Sn-121g

52-Te-122

Radionuclide Production Cross Section -28.29 To 4.188 %

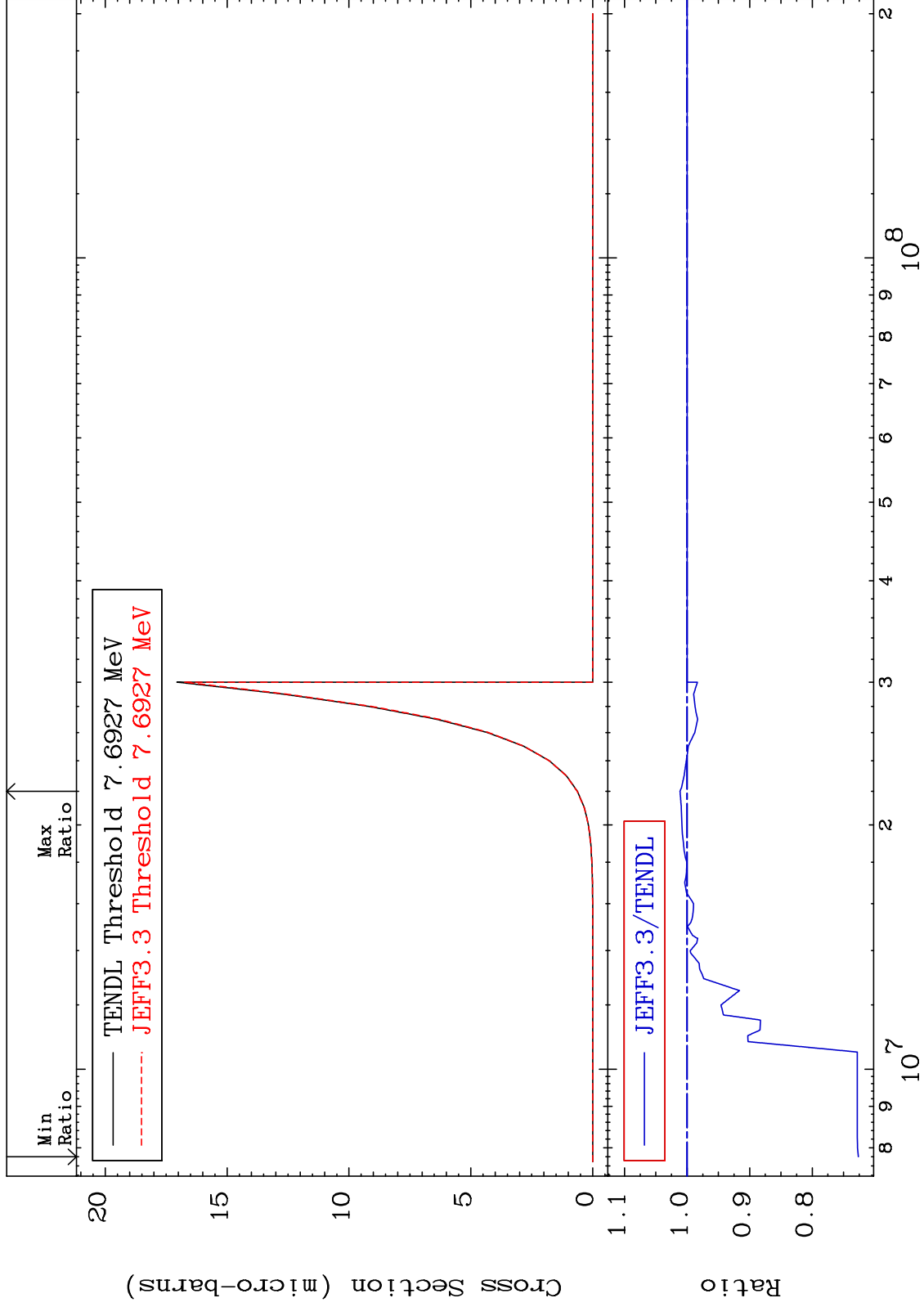


MAT 5231

(n,2p):50-Sn-121m1

52-Te-122

Radionuclide Production Cross Section -27.37 To 1.132 %



96

Incident Energy (eV)

52-Te-122

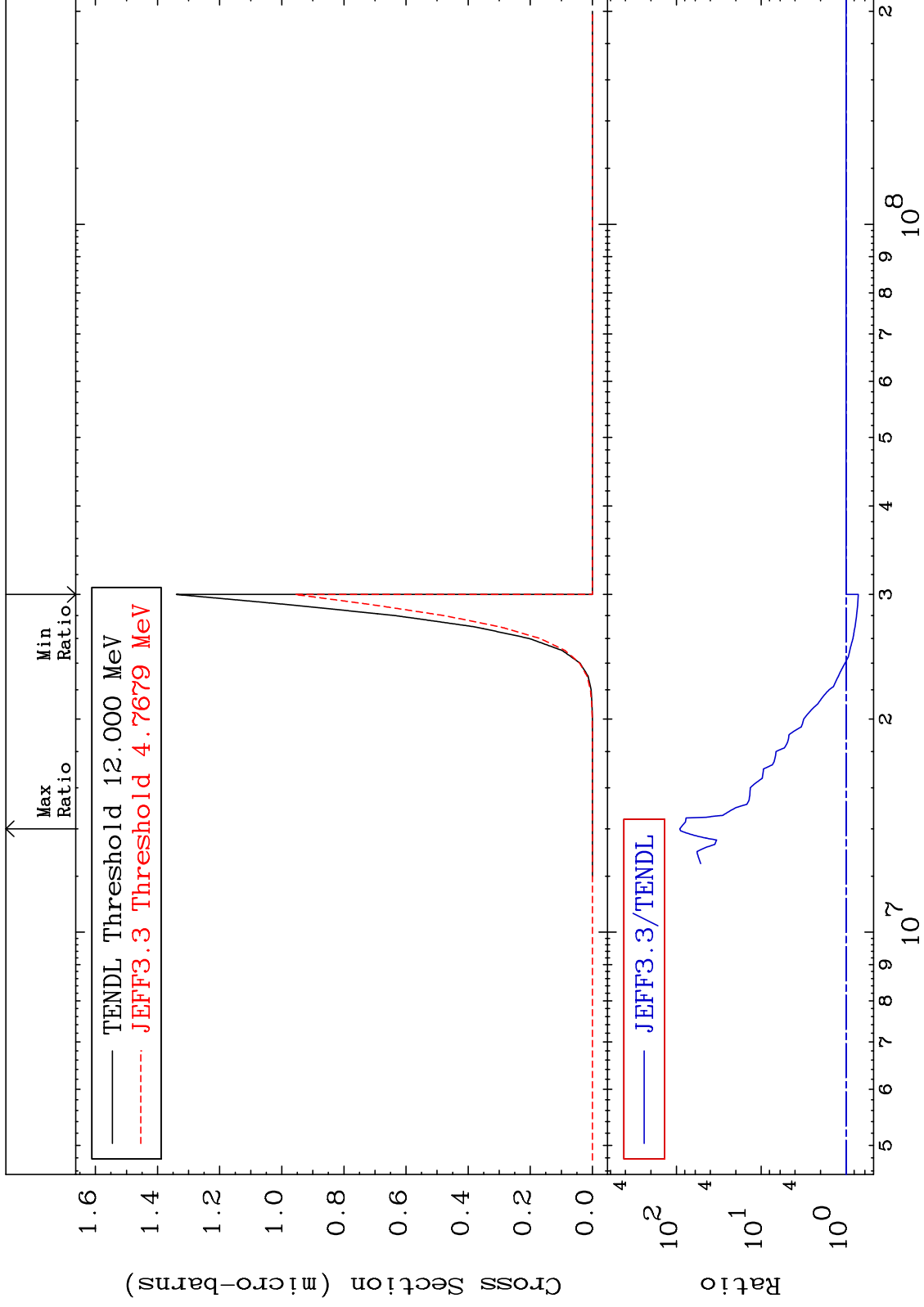
MAT 5231

(n, p) α : 49-In-118g

52-Te-122

Radionuclide Production Cross Section

-28.45 To 9041. %



97

52-Te-122

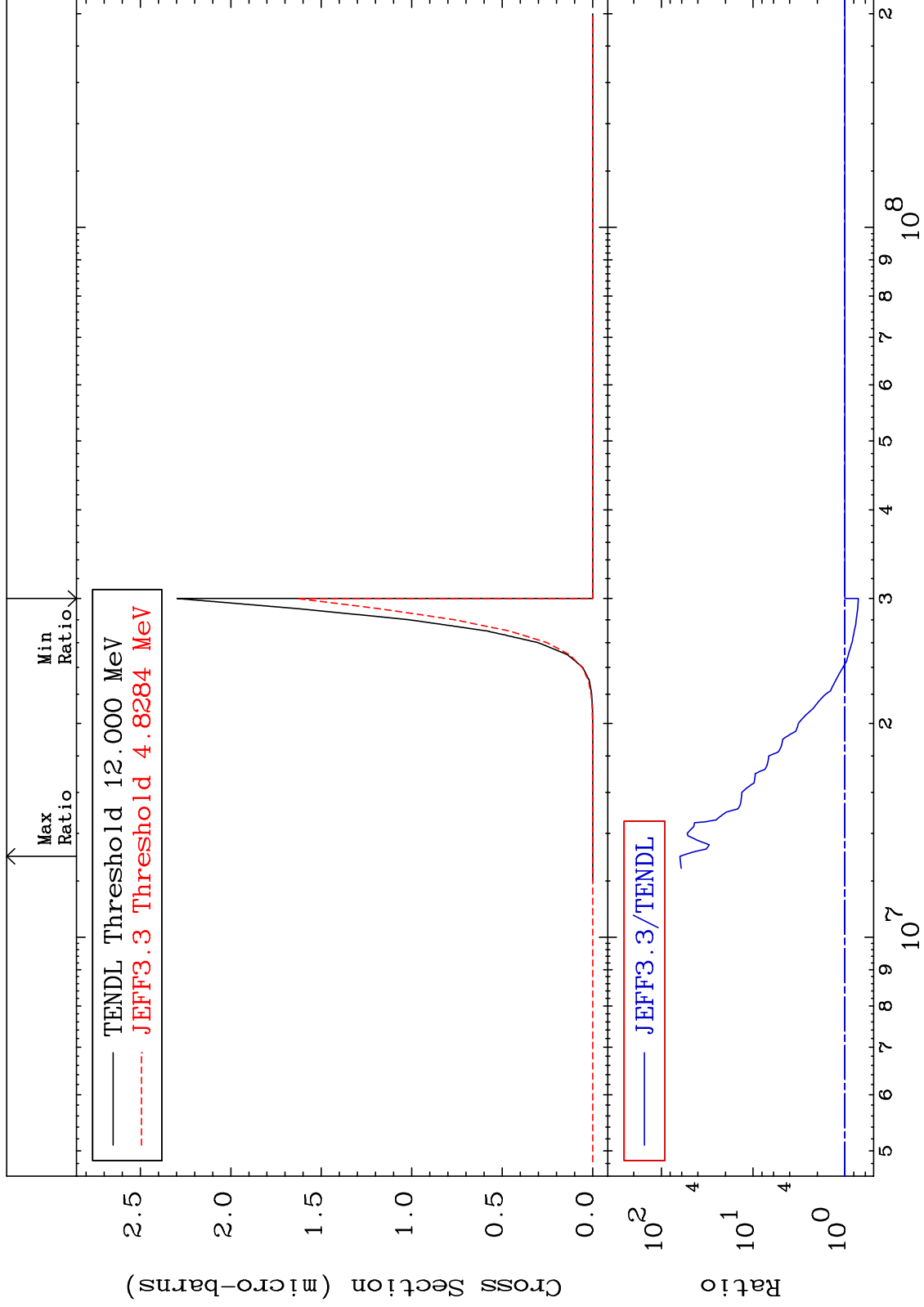
52-Te-122

MAT 5231

(n, p) α :49-In-118m1

52-Te-122

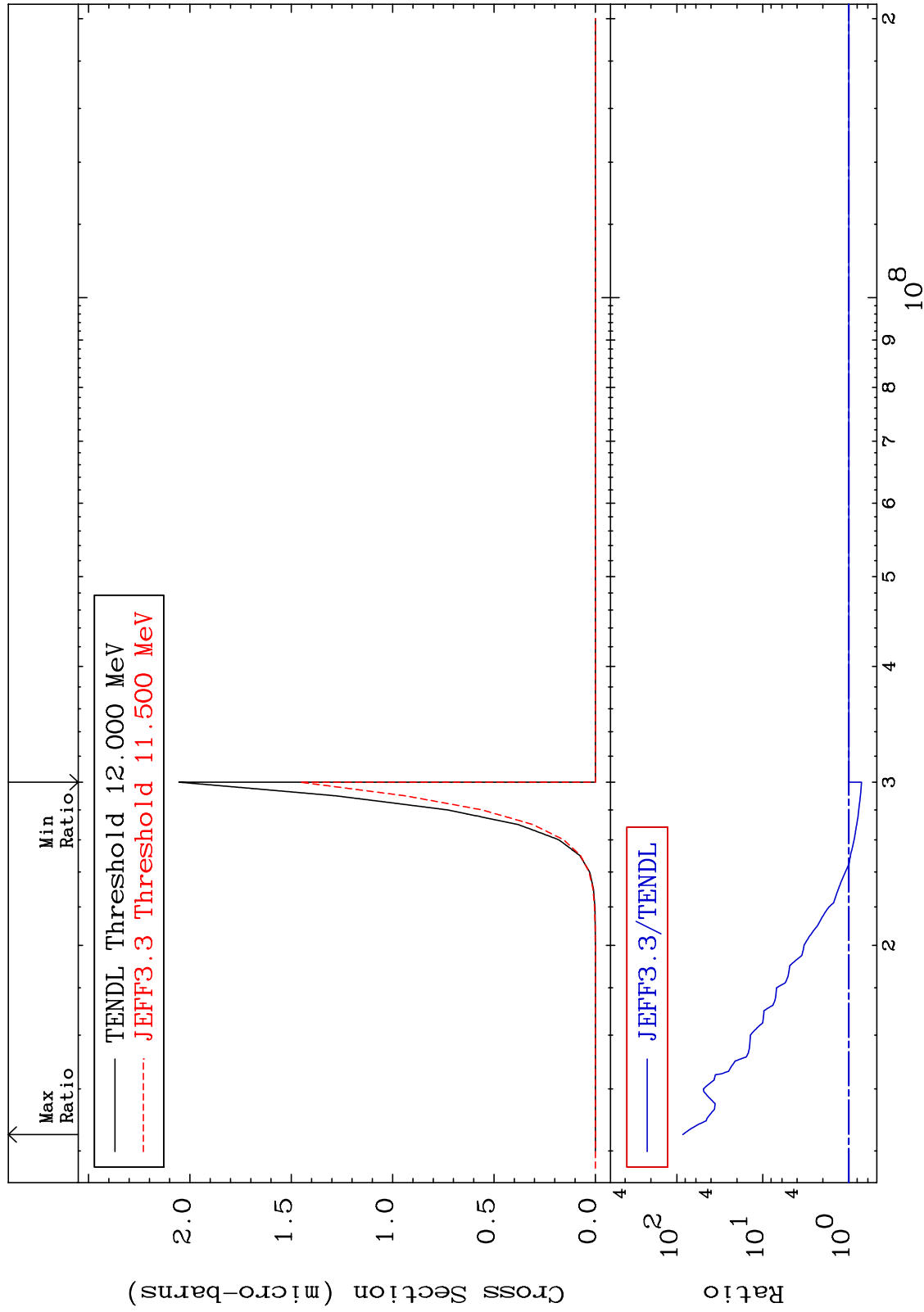
Radionuclide Production Cross Section -28.78 To 6160. %



98

Incident Energy (eV)

52-Te-122



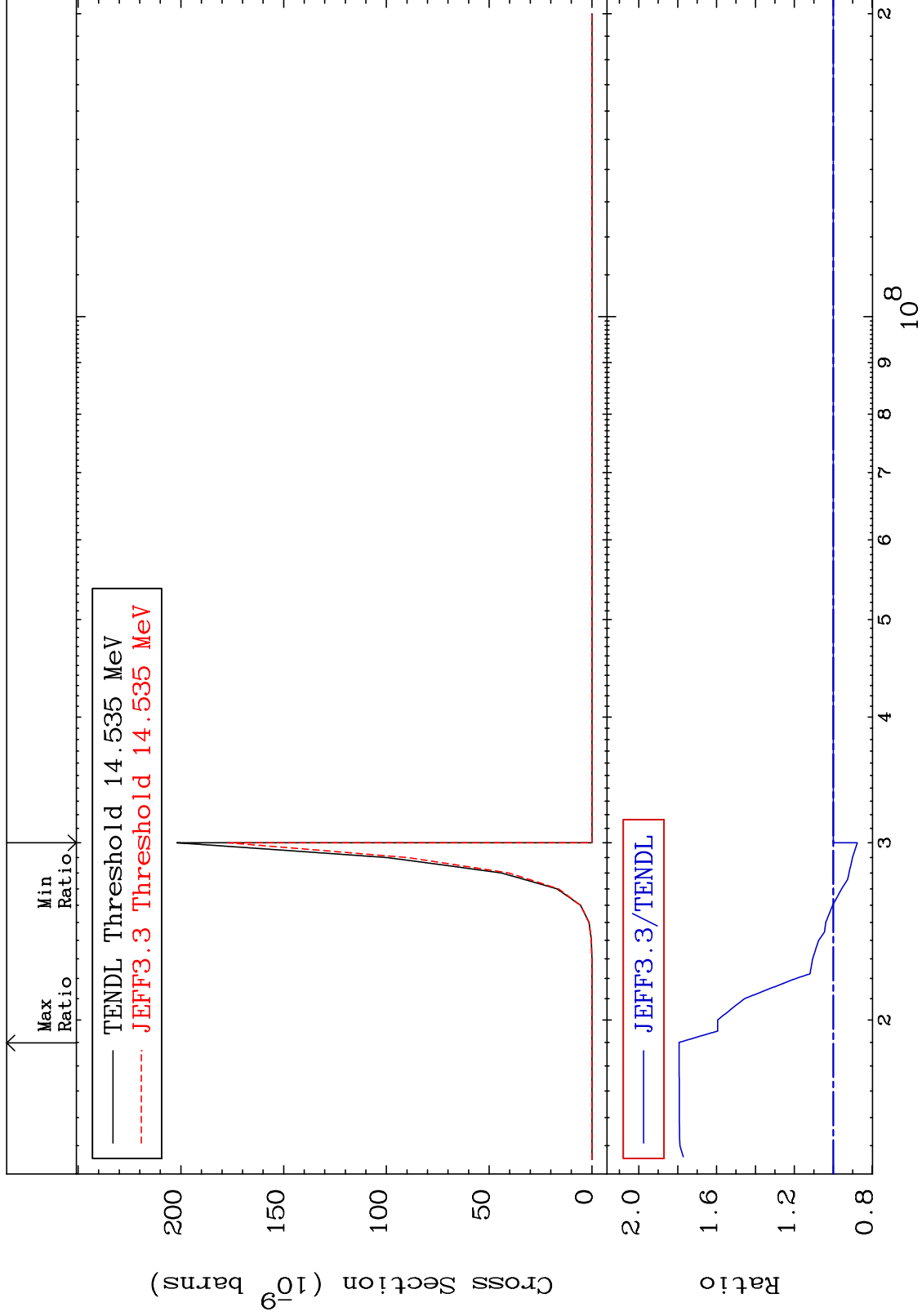
MAT 5231

(n, p) t:50-Sn-119g

52-Te-122

Radionuclide Production Cross Section

-12.37 To 79.24 %



100

Incident Energy (eV)

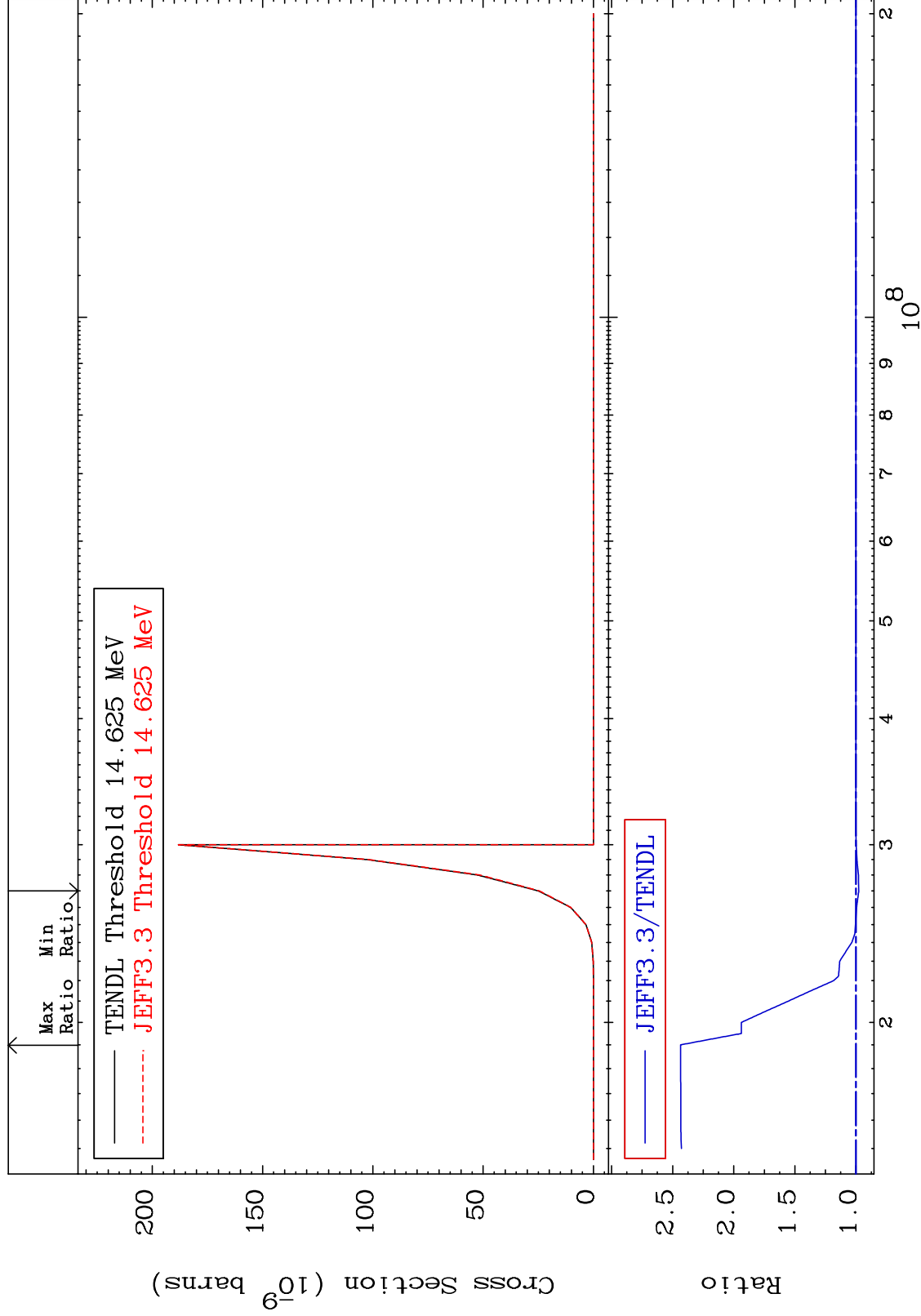
52-Te-122

MAT 5231

(n, p) t:50-Sn-119m2

52-Te-122

Radionuclide Production Cross Section -2.266 To 143.4 %

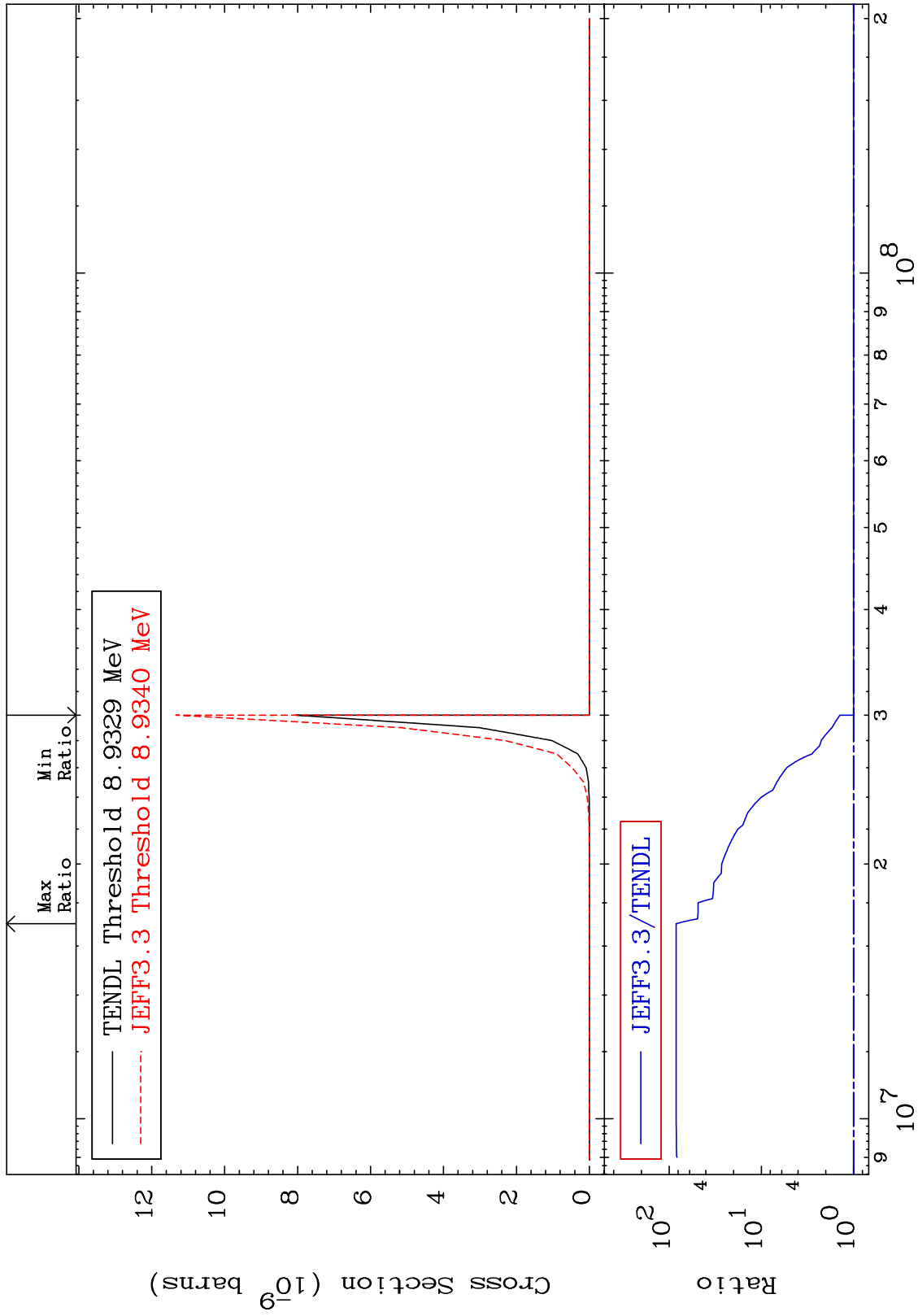


MAT 5231

(n, d) α : 49-In-117g

52-Te-122

Radionuclide Production Cross Section 0.000 To 8291. %



102

Incident Energy (eV)

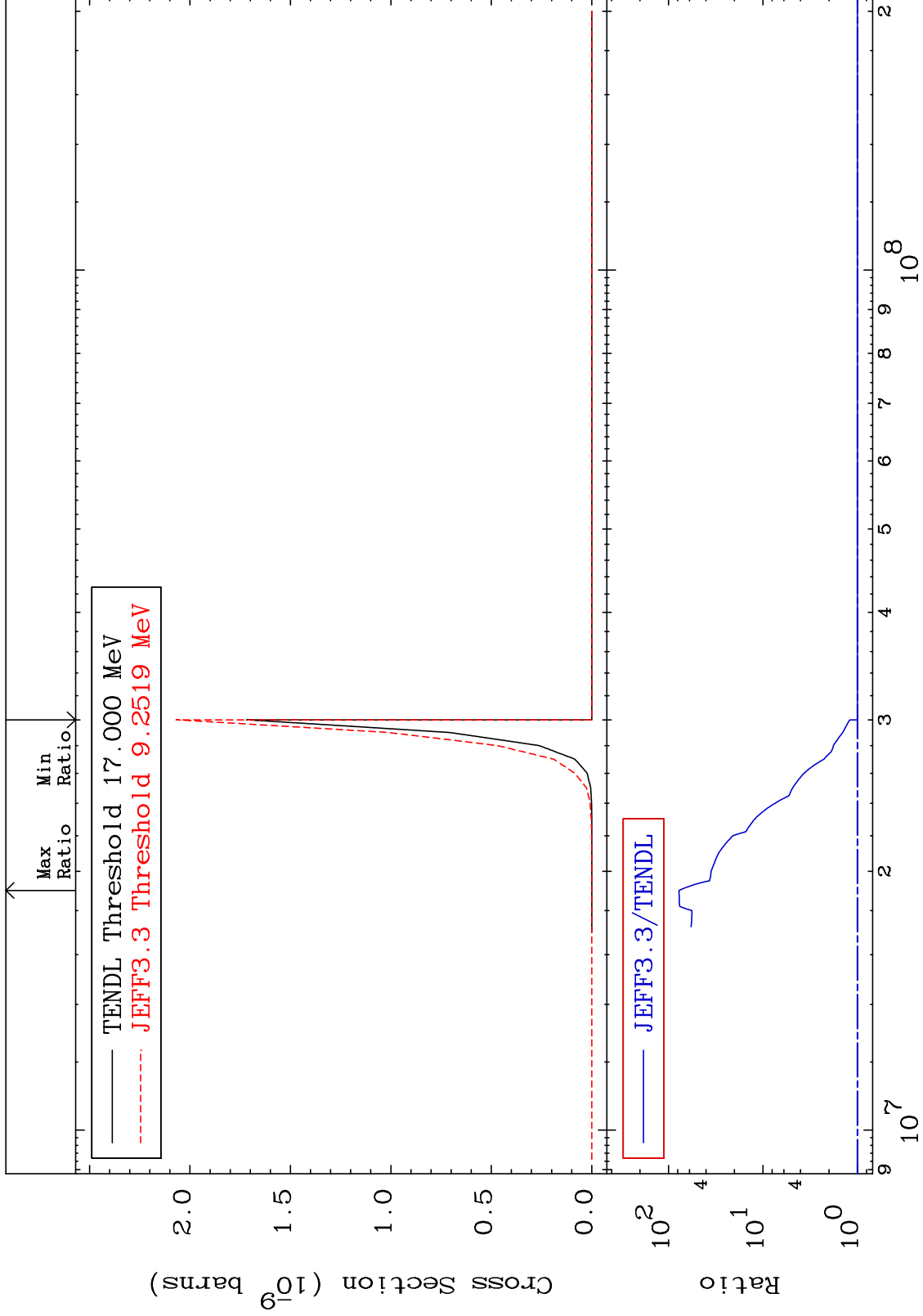
52-Te-122

MAT 5231

(n, d) α :49-In-117m1

52-Te-122

Radionuclide Production Cross Section 0.000 To 7618. %



103

Incident Energy (eV)

52-Te-122