

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

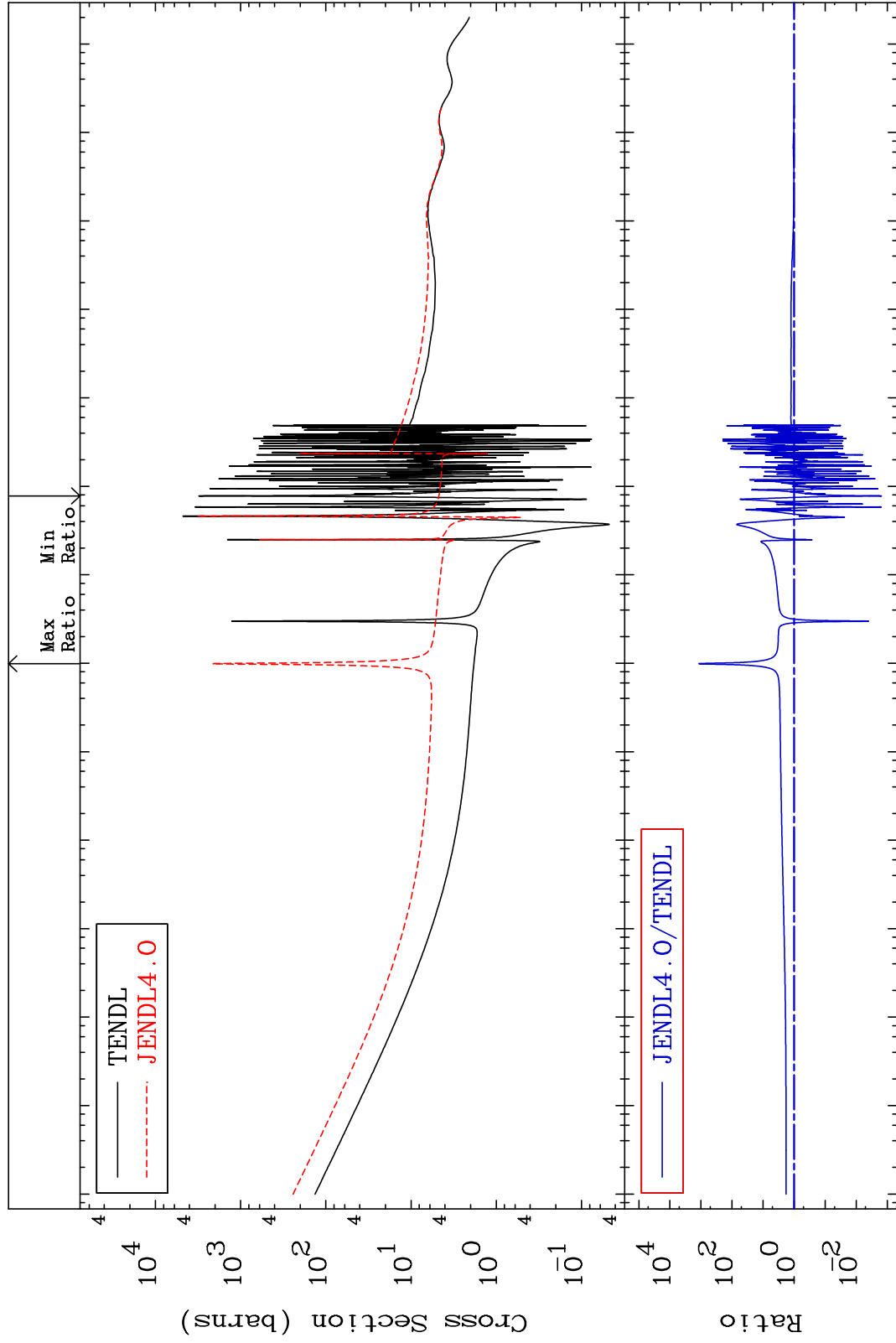
MAT 5431

Total

54-Xe-126

-99.85 To 9999. %

Cross Section



Incident Energy (eV)

54-Xe-126

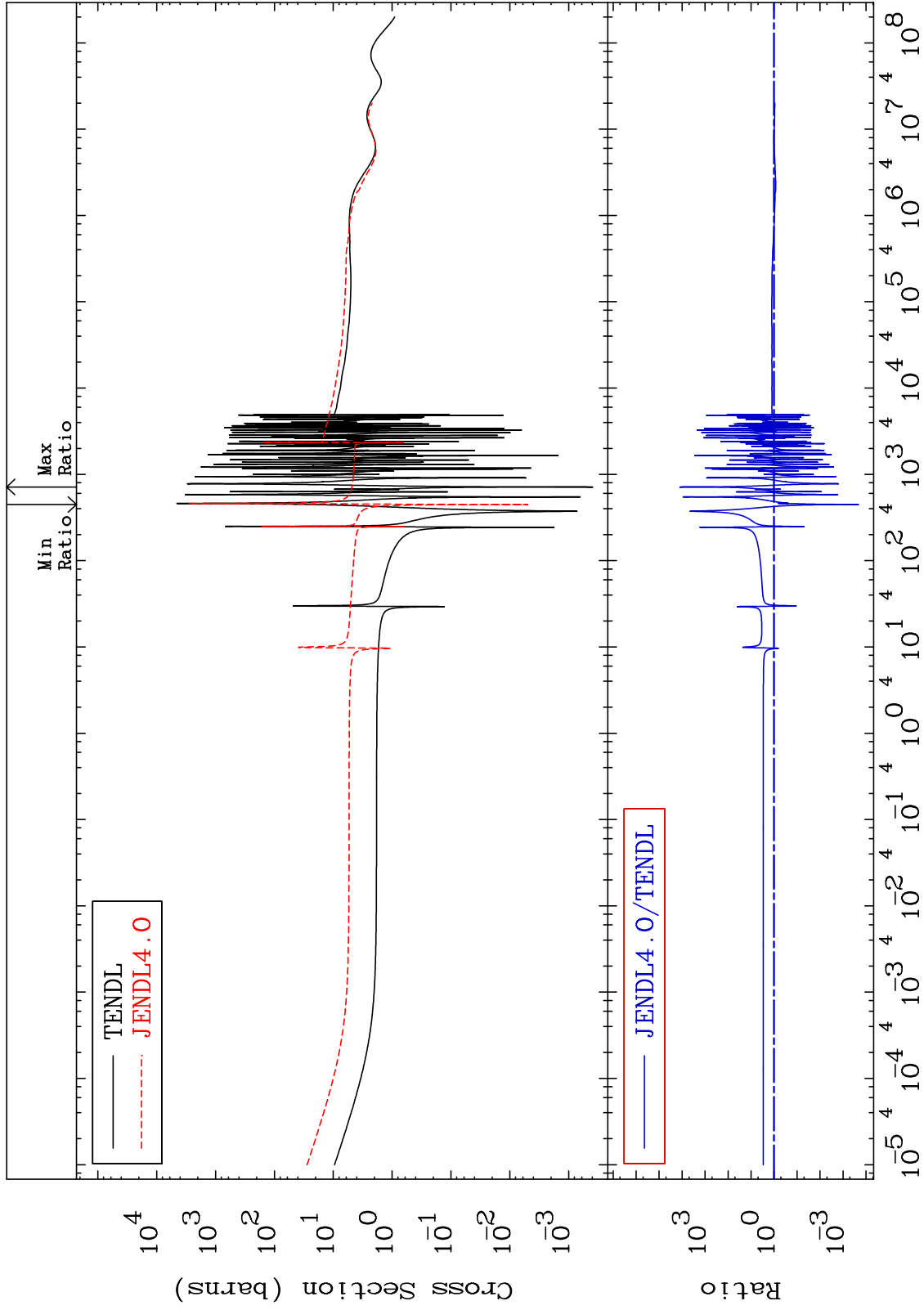
MAT 5431

Elastic

Cross Section

54-Xe-126

-99.98 To 9999. %



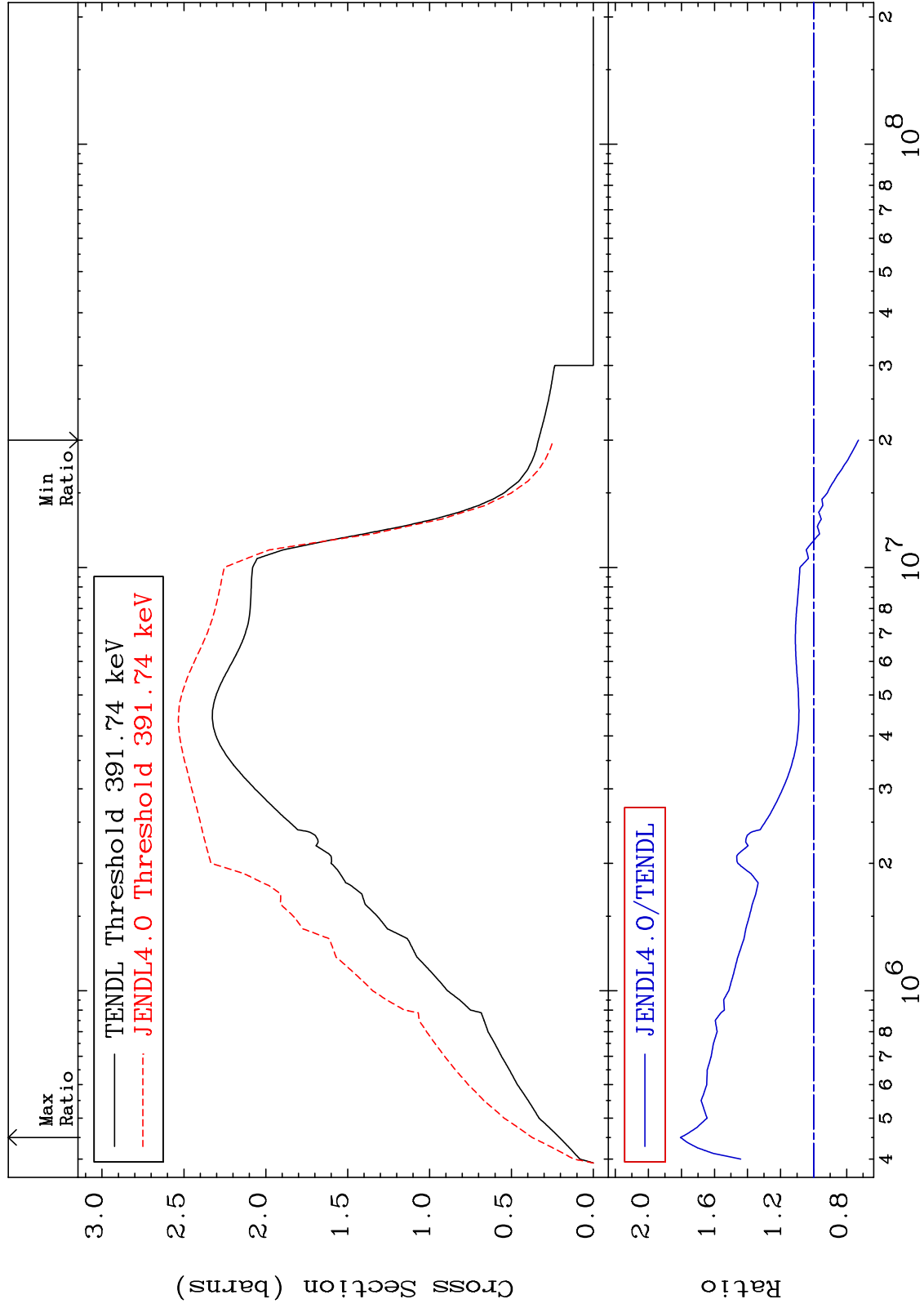
MAT 5431

Inelastic

54-Xe-126

Cross Section

-27.20 To 80.60 %



MAT 5431

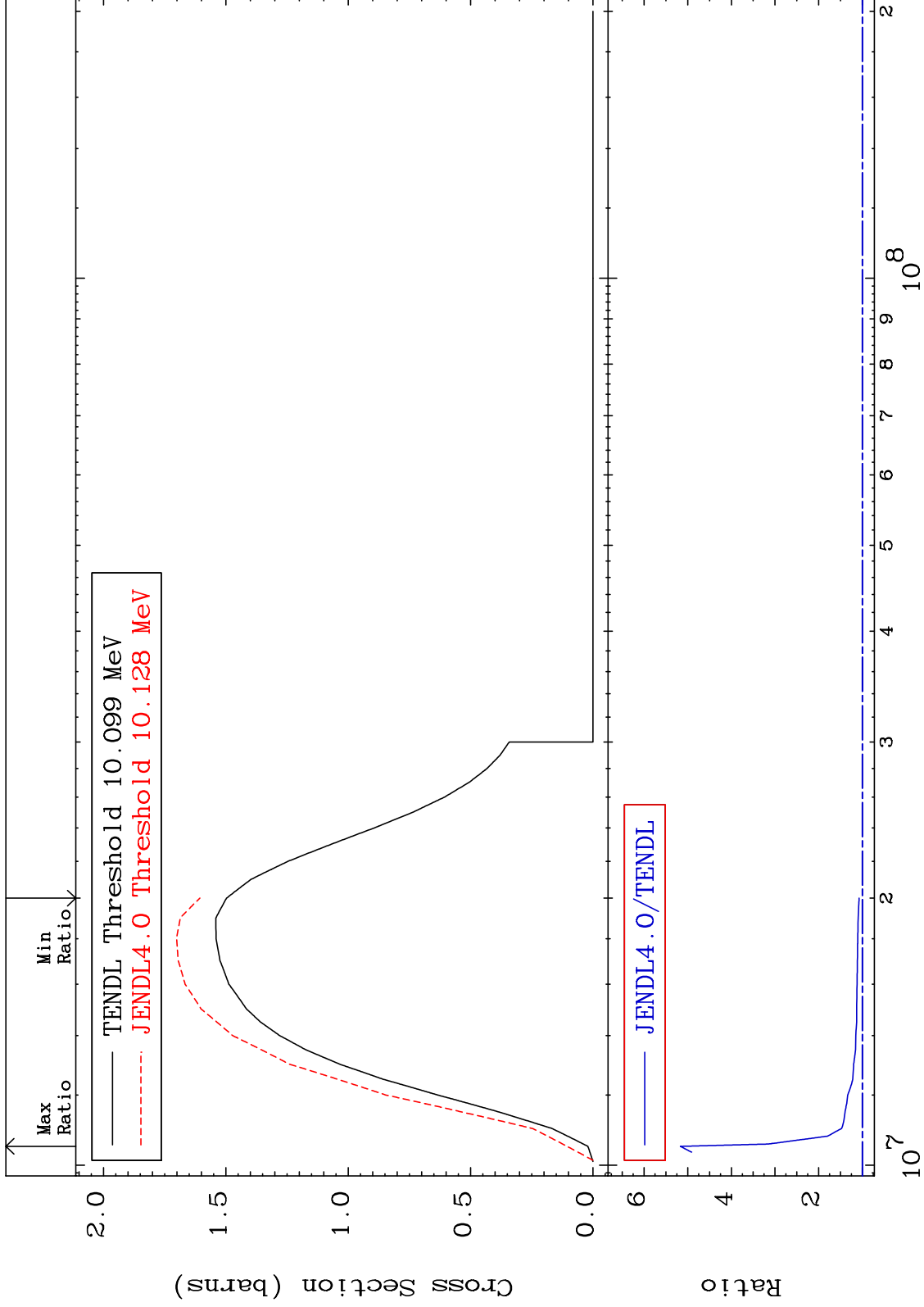
(n,2n)

54-Xe-126

Cross Section

7.292

To 416.8 %



Incident Energy (eV)

54-Xe-126

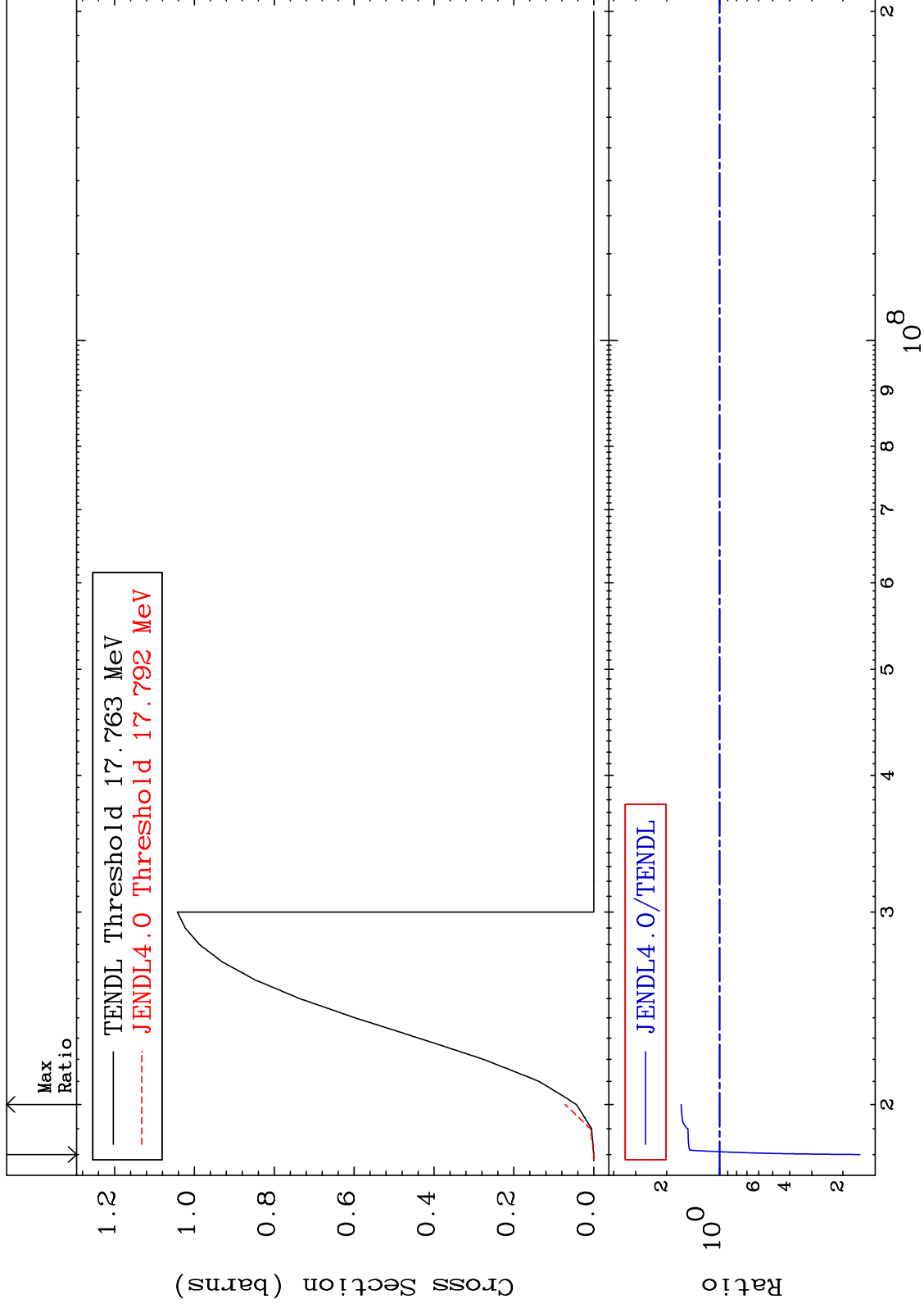
MAT 5431

(n,3n)

54-Xe-126

Cross Section

-84.02 To 65.36 %



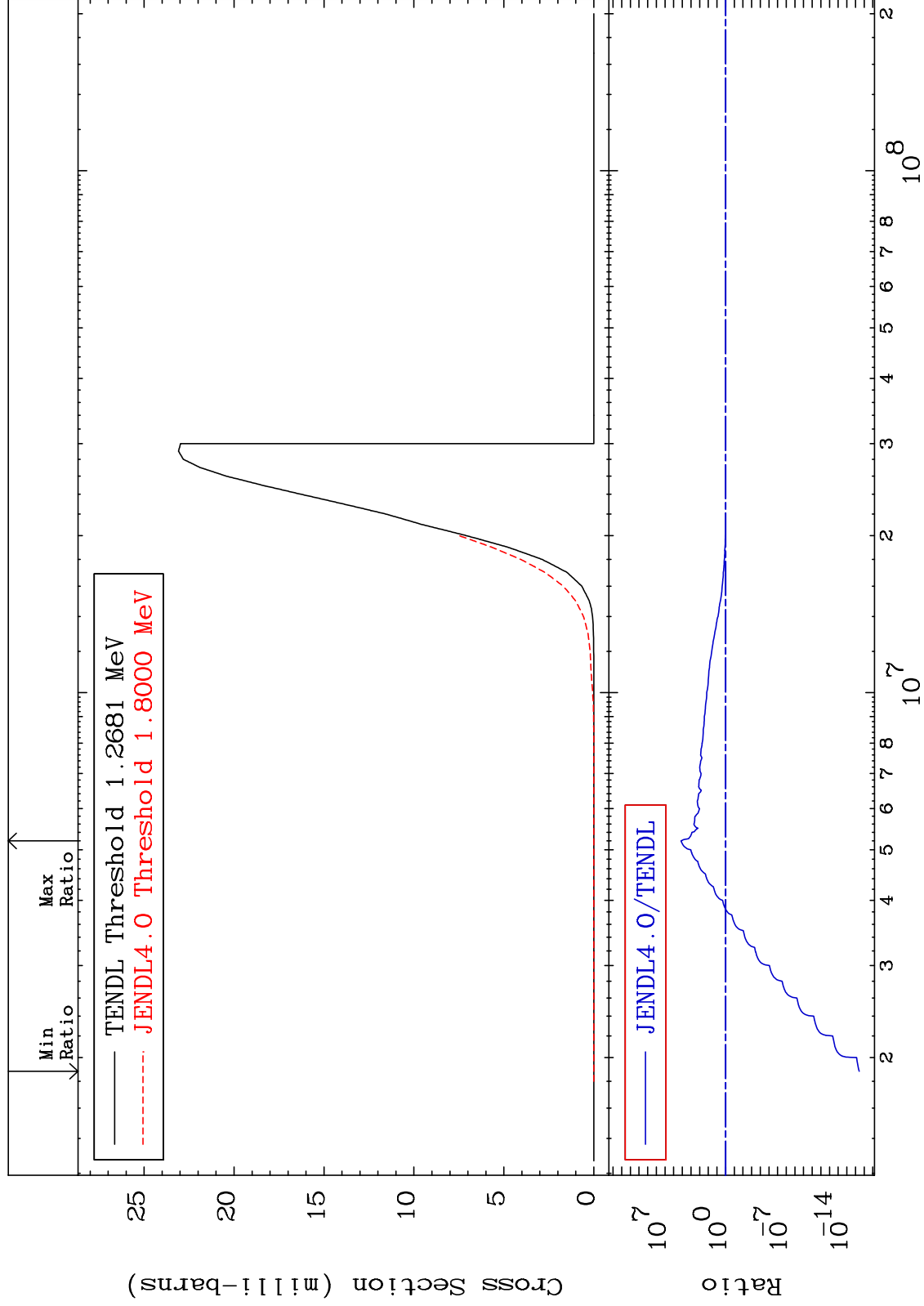
MAT 5431

(n,n') α

54-Xe-126

Cross Section

-100.0 To 9999. %



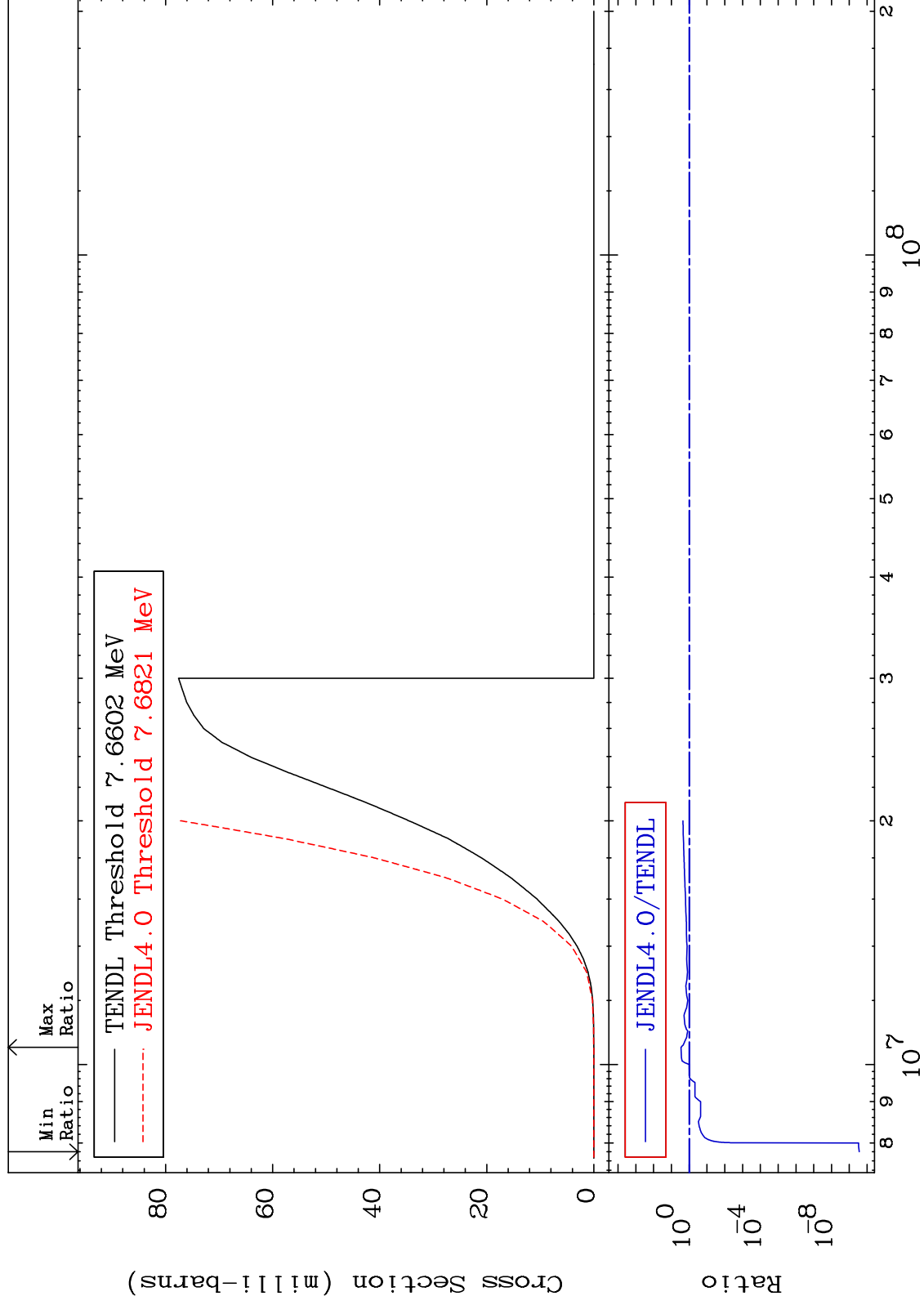
MAT 5431

(n,n') p

54-Xe-126

Cross Section

-100.0 To 187.0 %



7

Incident Energy (eV)

54-Xe-126

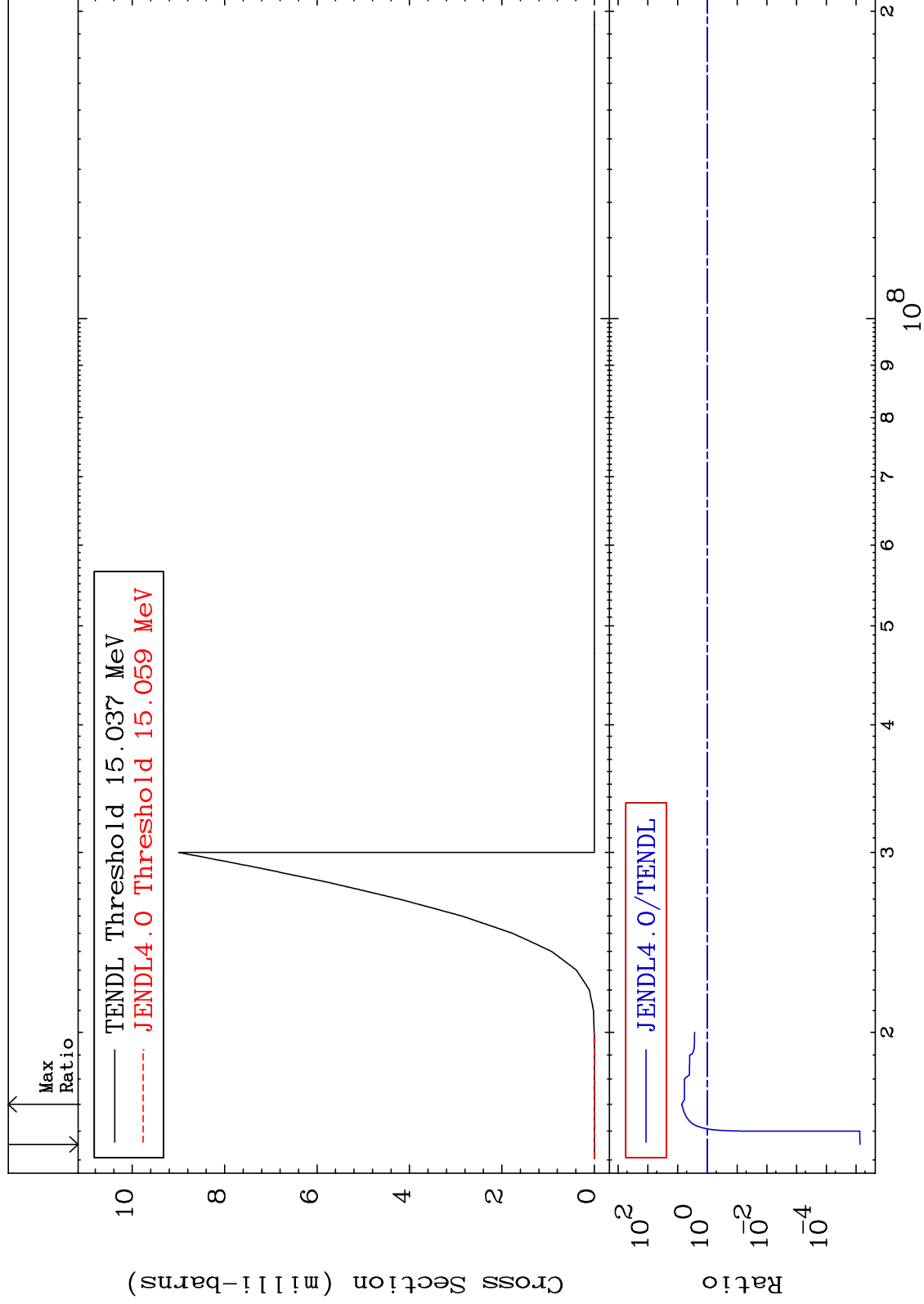
MAT 5431

(n,n') d

54-Xe-126

Cross Section

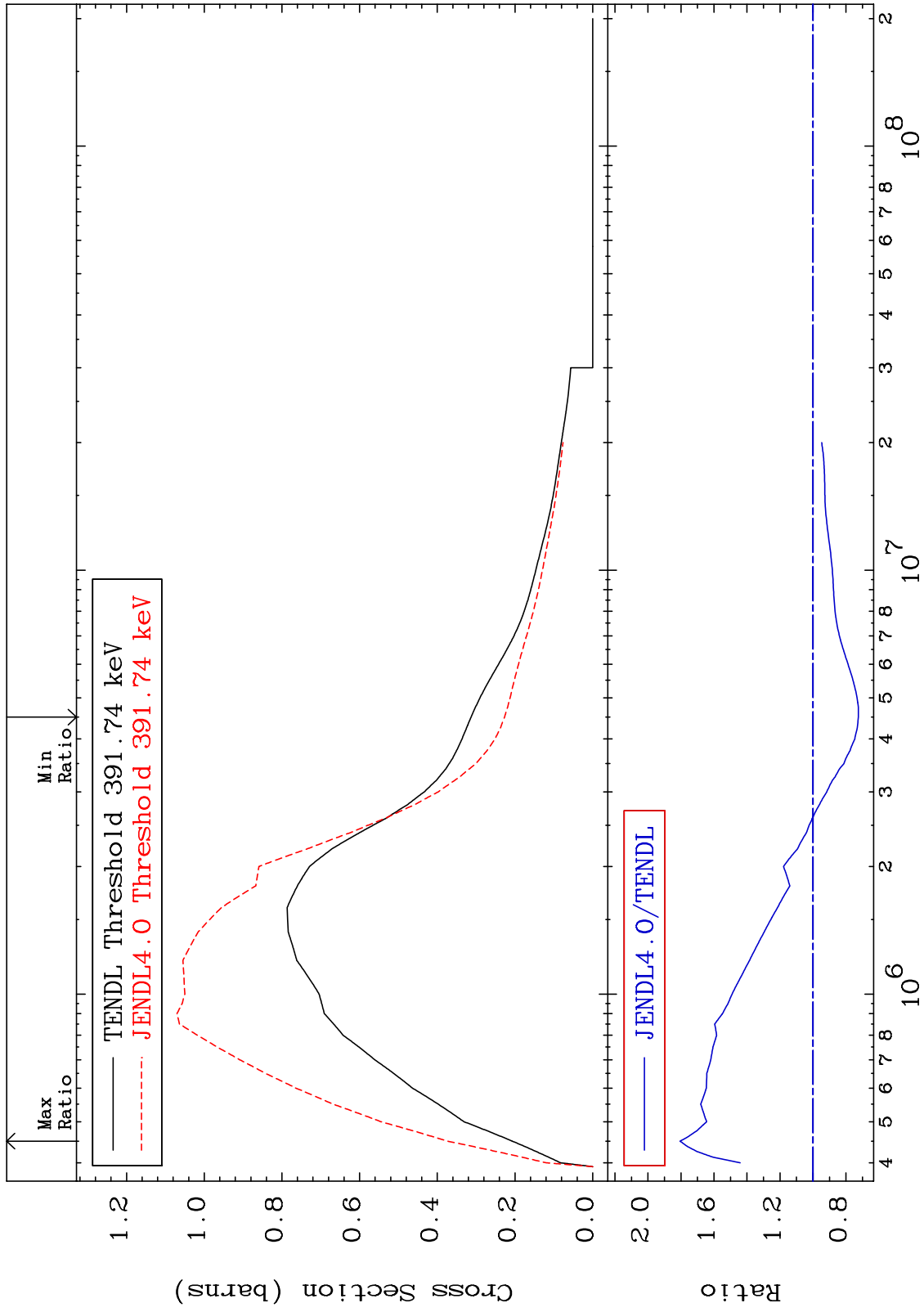
-100.0 To 631.0 %



MAT 5431

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

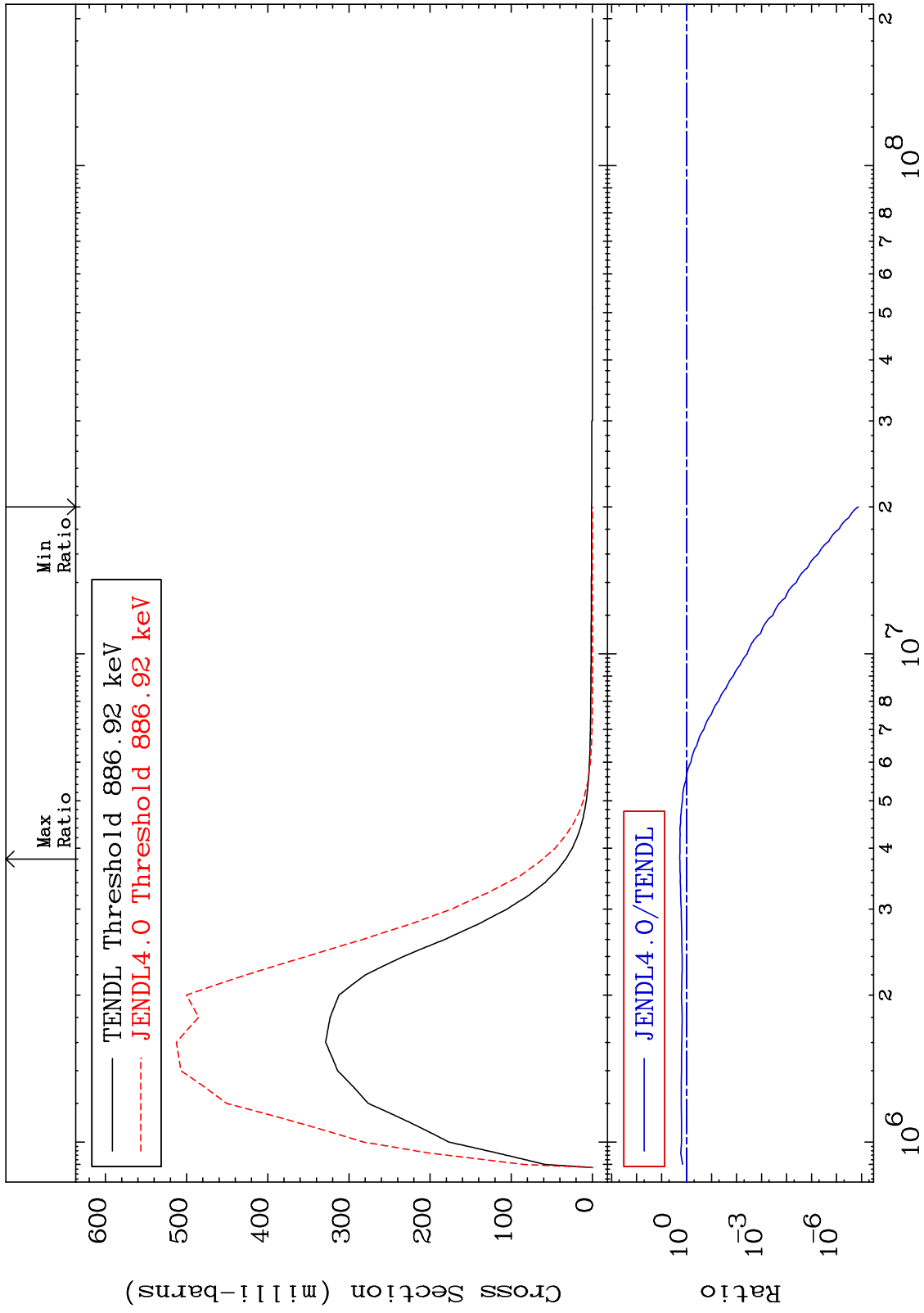
54-Xe-126
-27.50 To 80.60 %



MAT 5431

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

54-Xe-126
-100.0 To 87.00 %



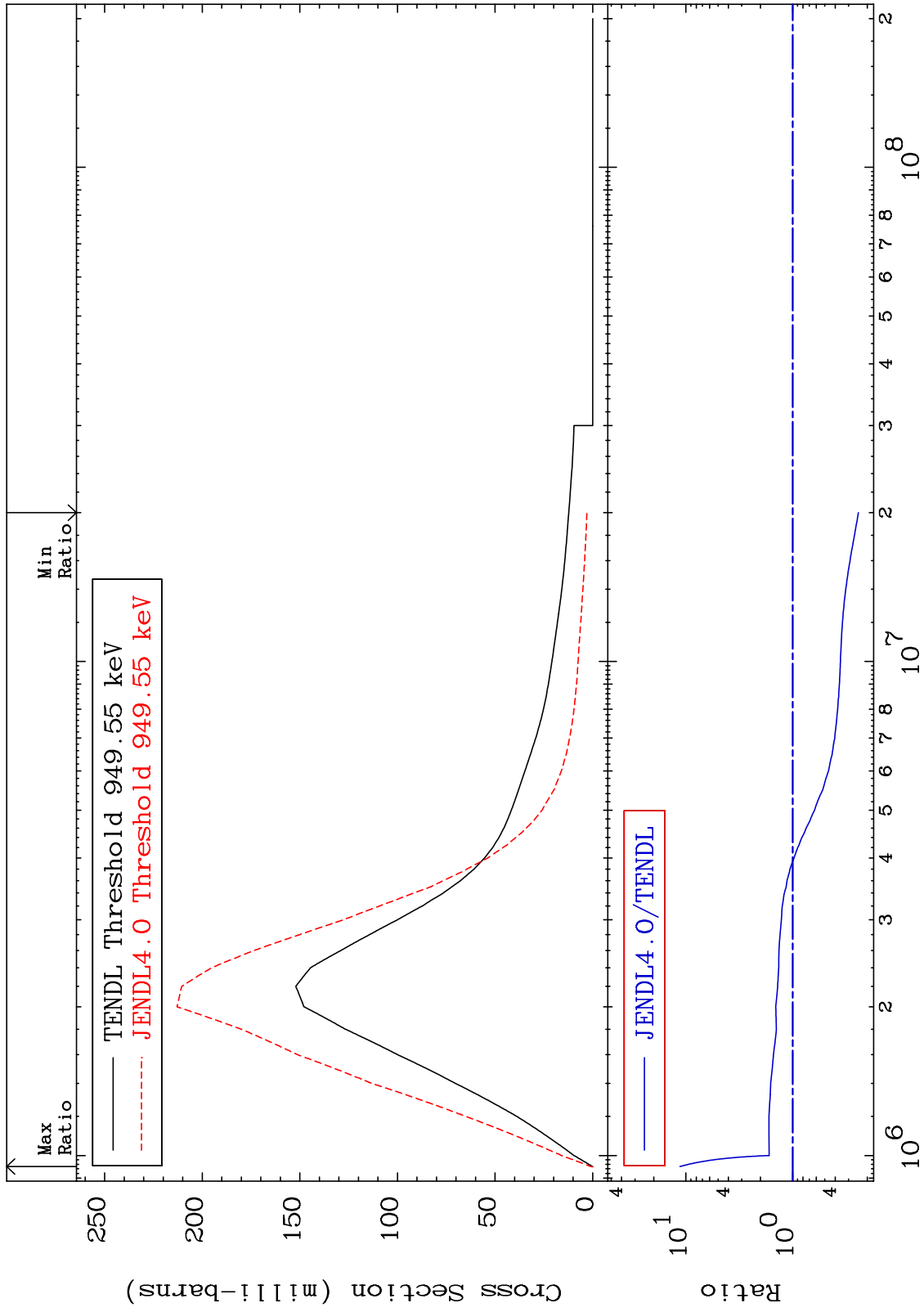
Incident Energy (eV)

54-Xe-126

MAT 5431

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

54-Xe-126
-75.76 To 1034. %



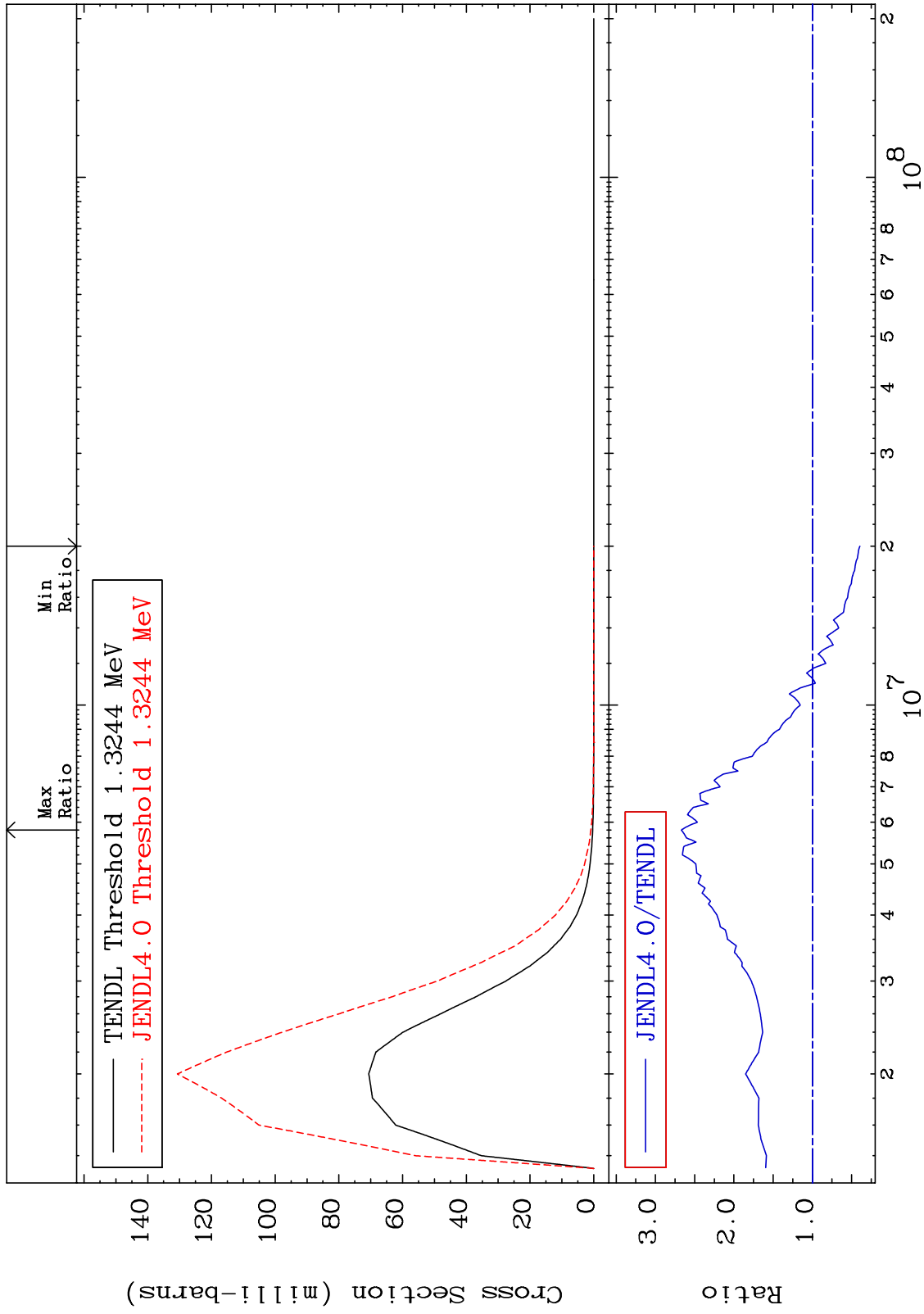
11

54-Xe-126

MAT 5431

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

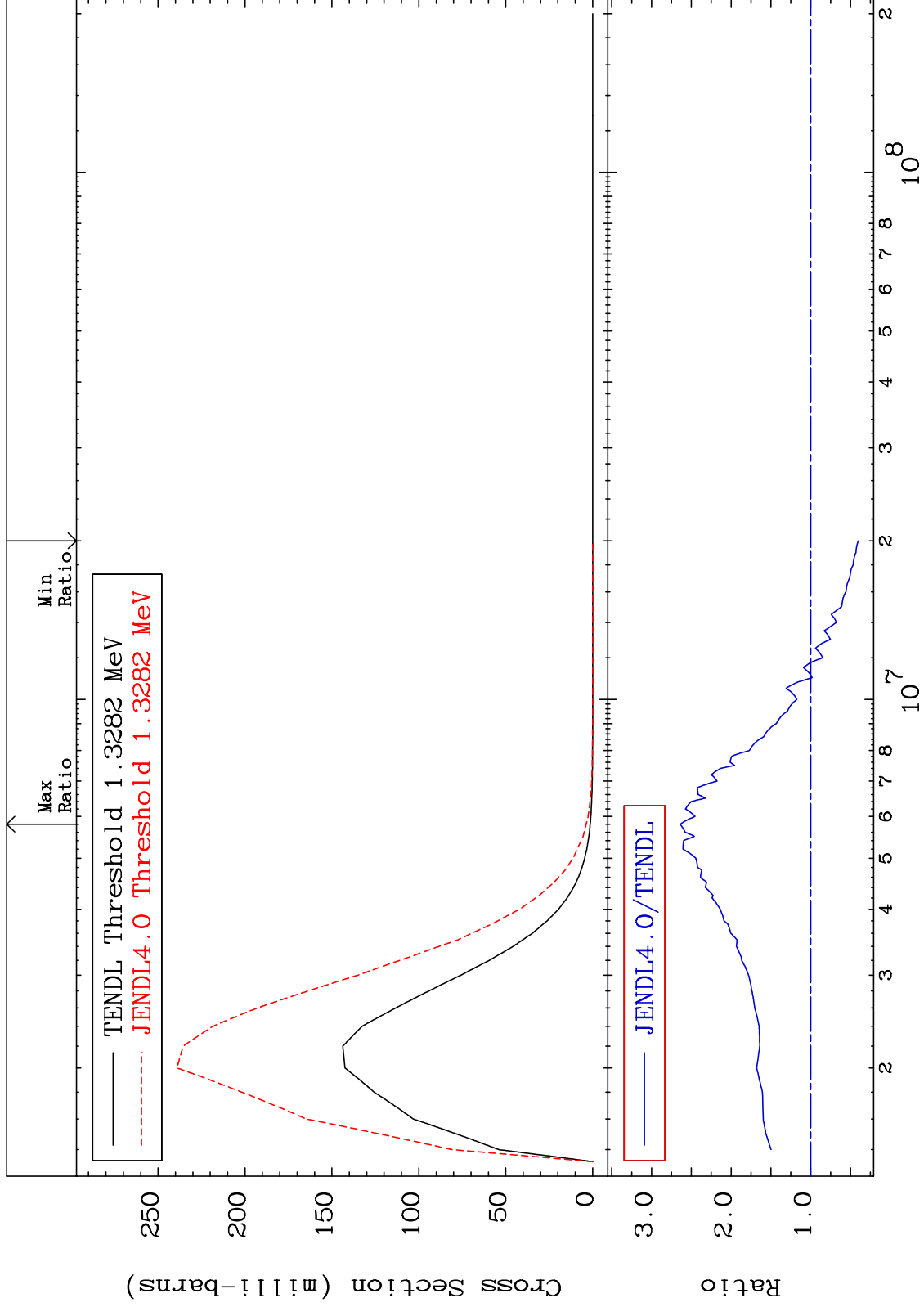
54-Xe-126
-60.58 To 167.1 %



MAT 5431

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

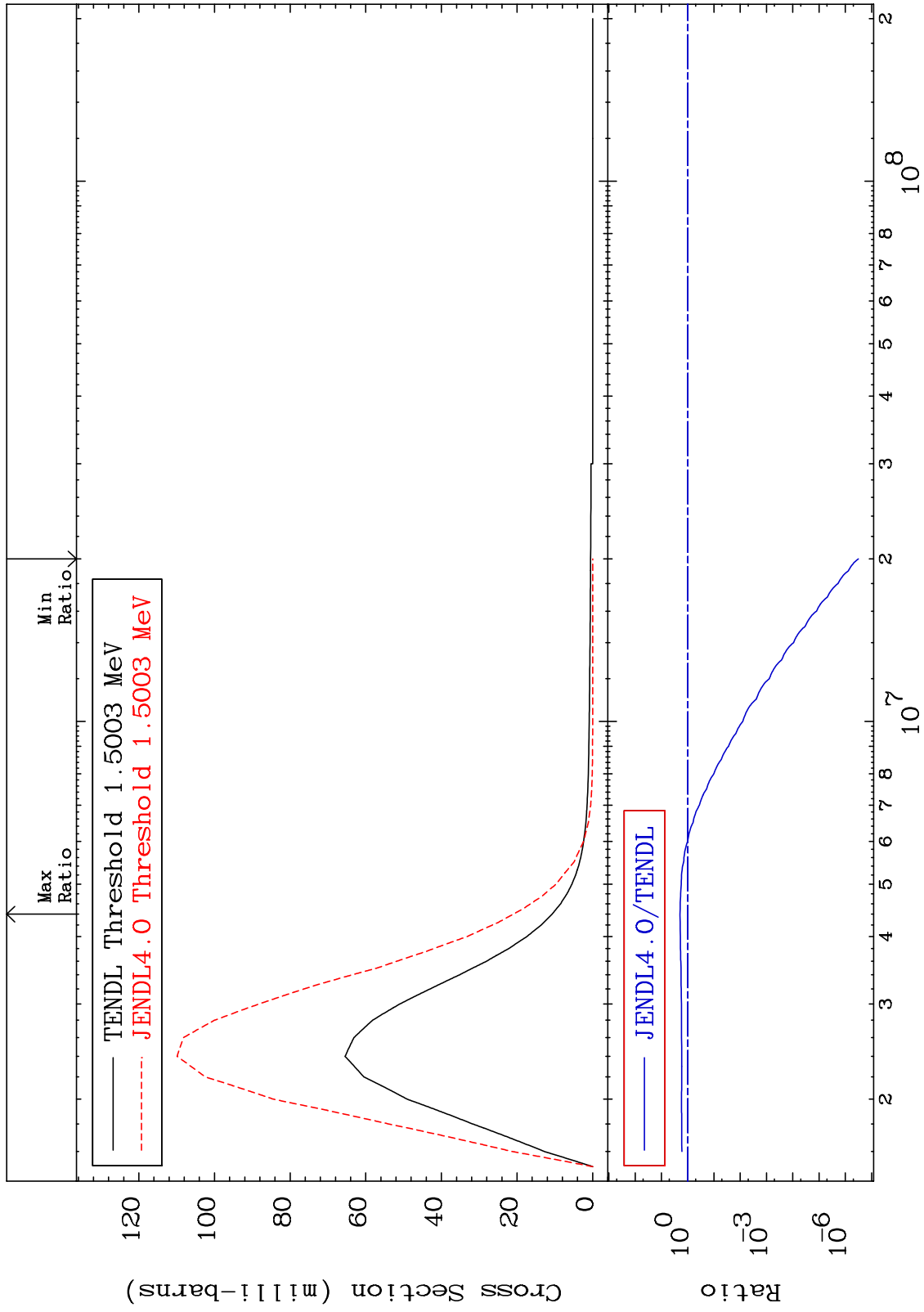
54-Xe-126
-60.00 To 164.2 %



MAT 5431

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

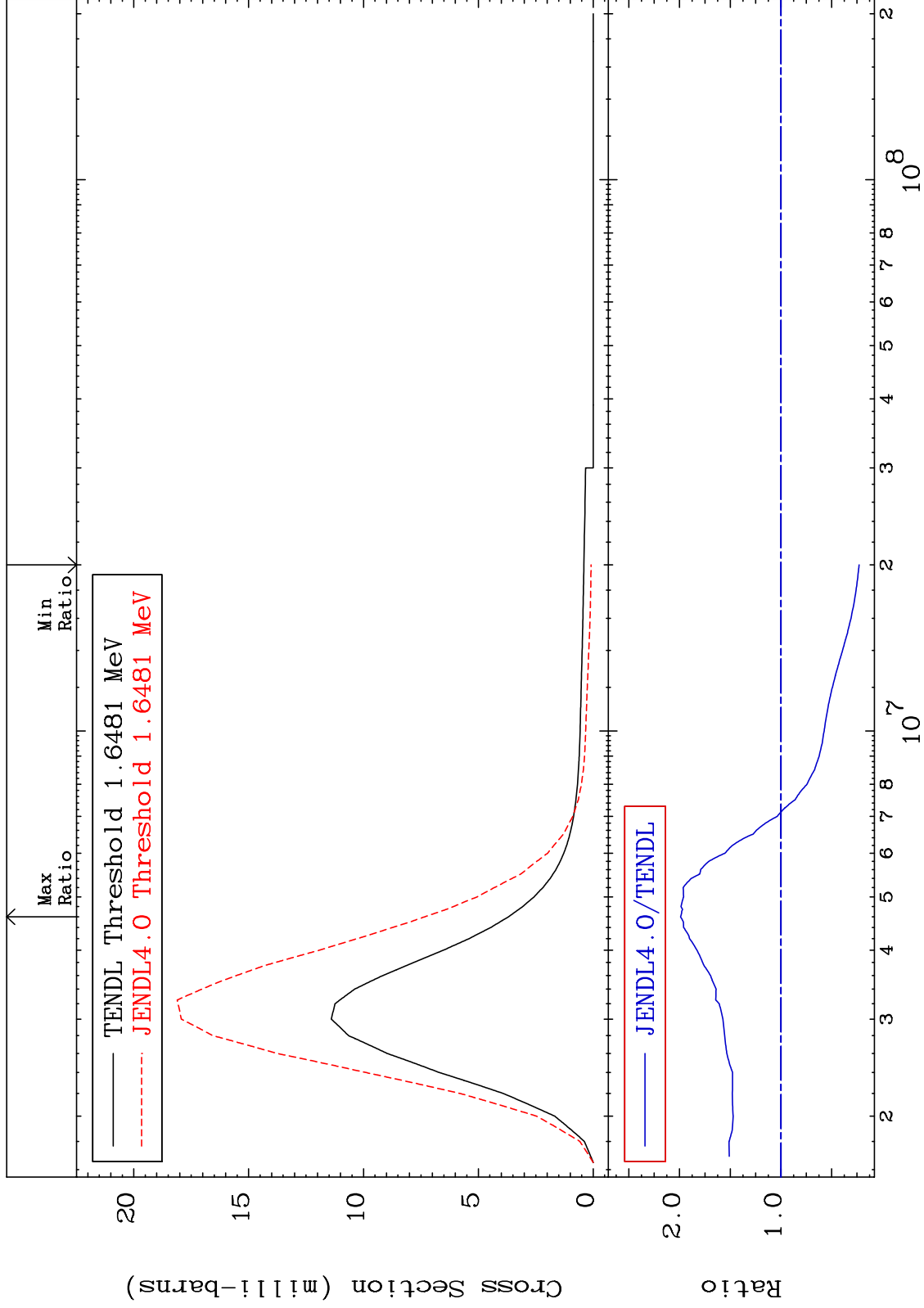
54-Xe-126
-100.0 To 96.23 %



MAT 5431

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

54-Xe-126
-77.20 To 98.95 %



15

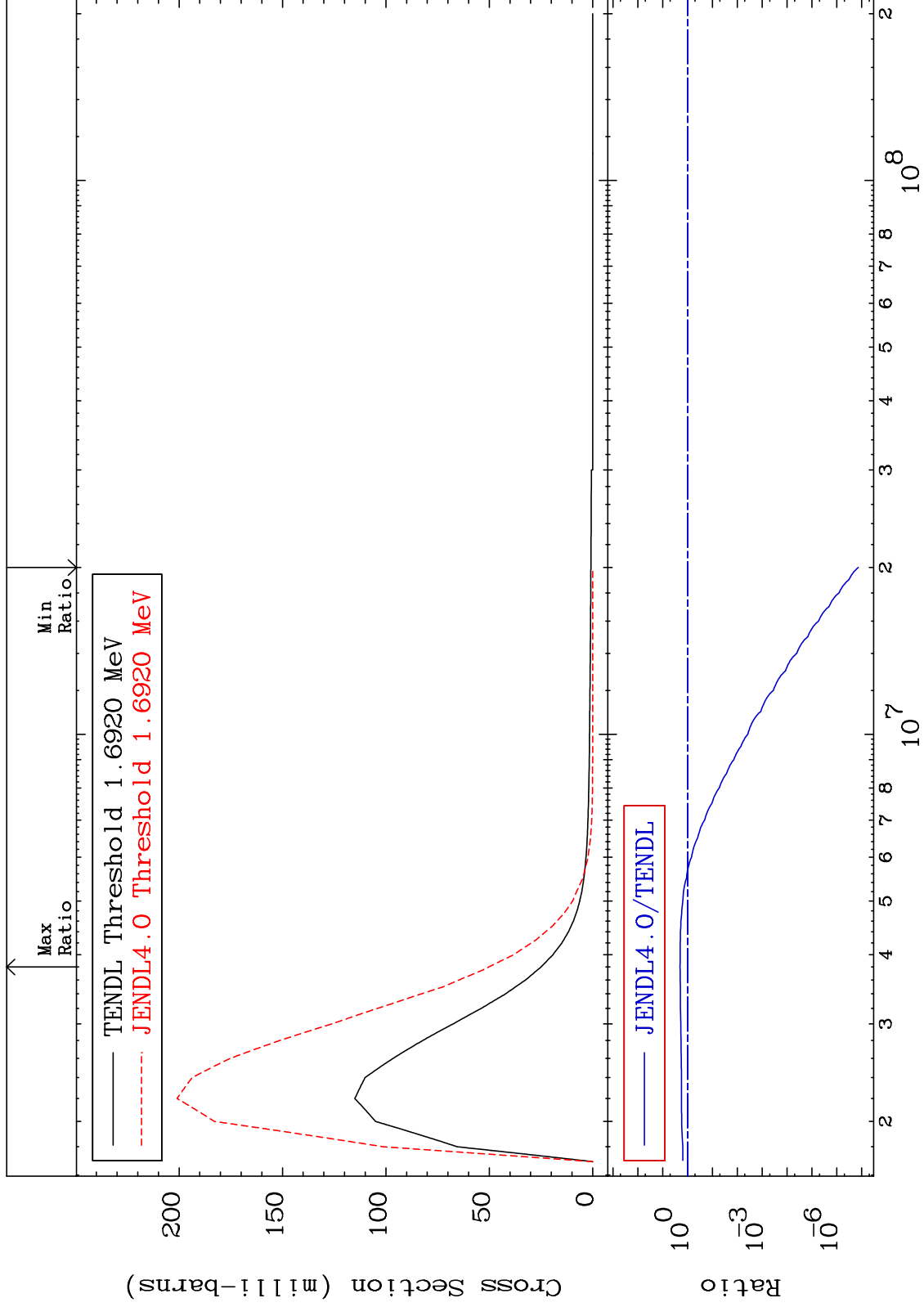
Incident Energy (eV)

54-Xe-126

MAT 5431

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

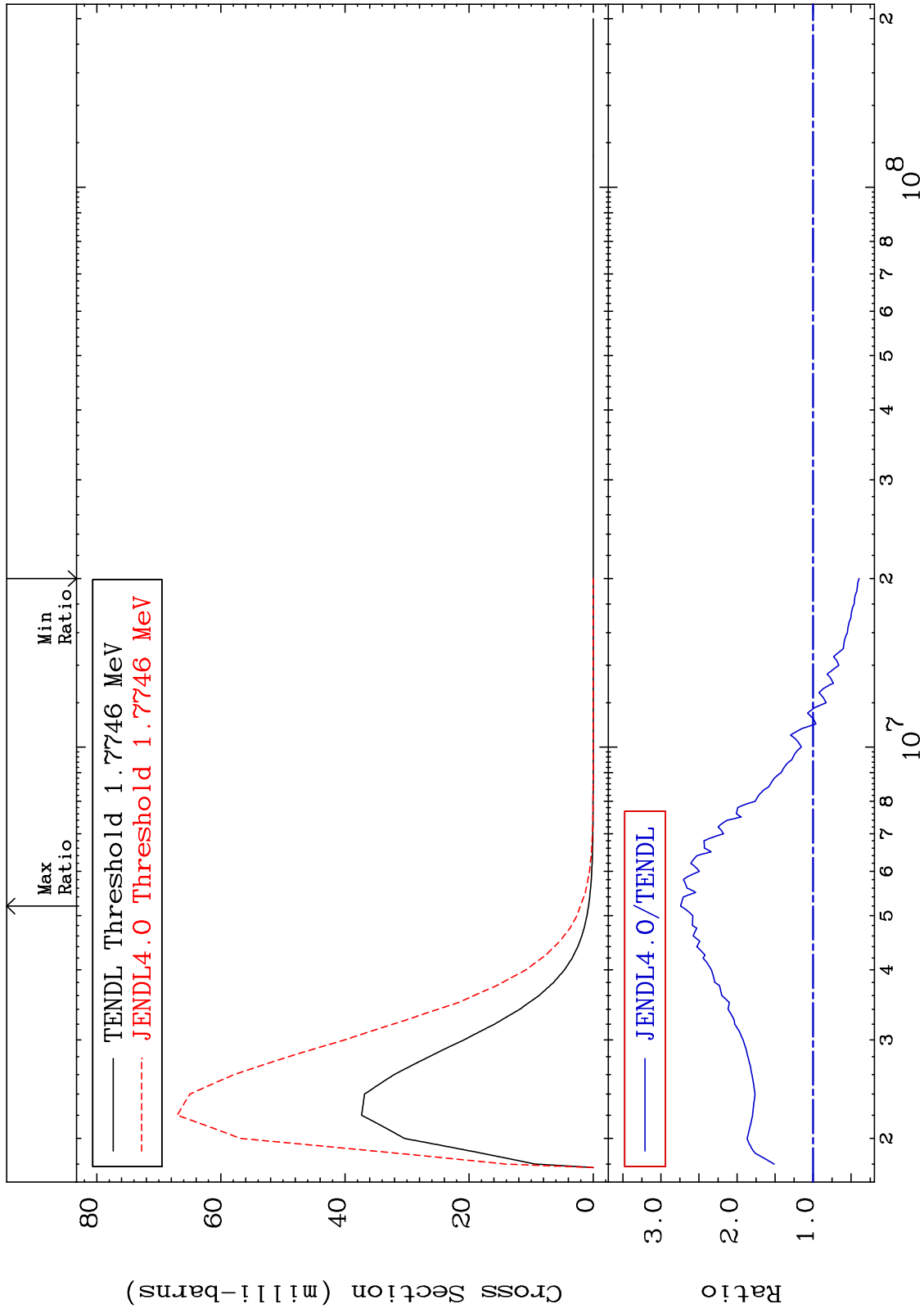
54-Xe-126
-100.0 To 101.7 %



MAT 5431

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

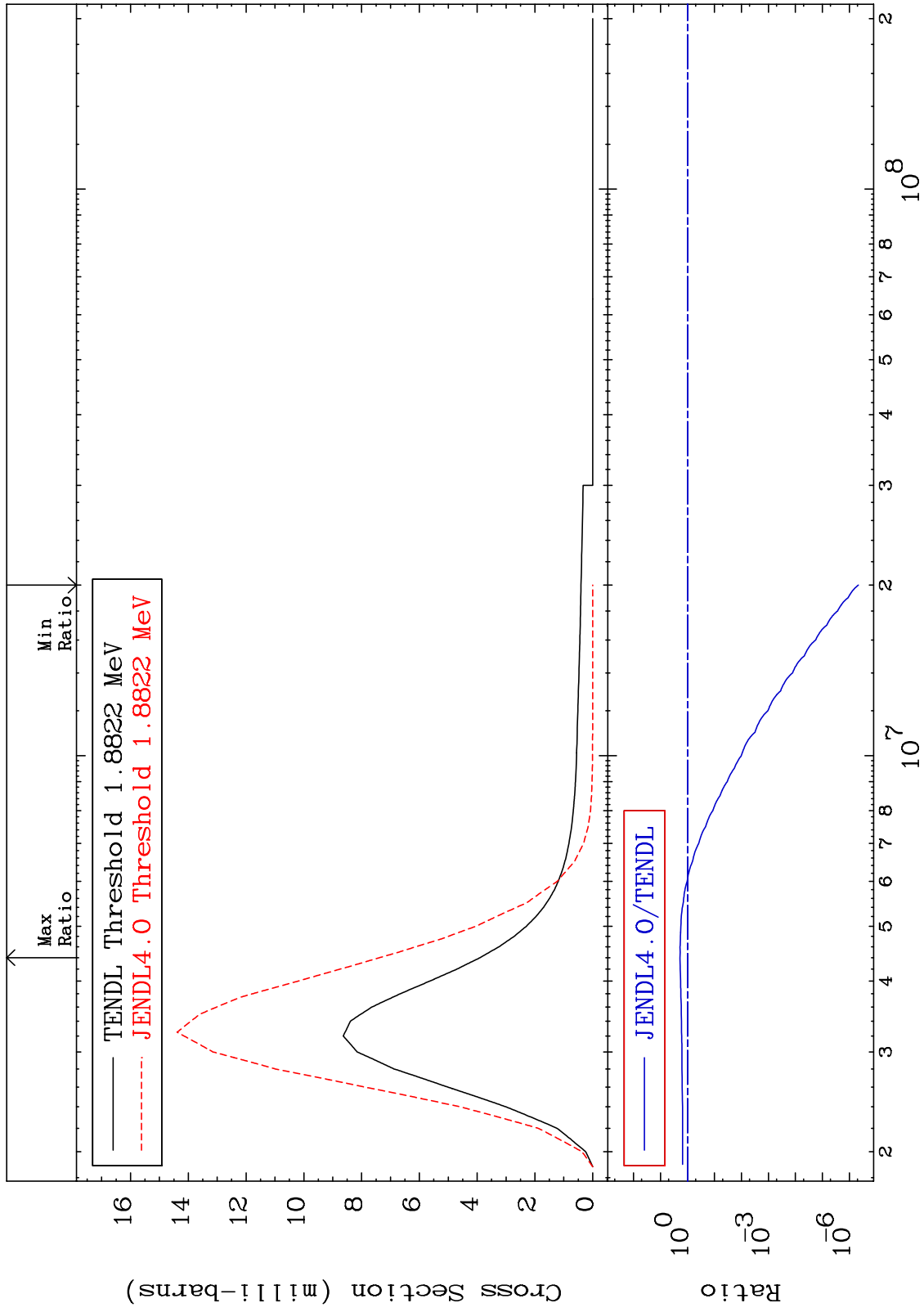
54-Xe-126
-60.54 To 174.1 %



MAT 5431

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

54-Xe-126
-100.0 To 89.36 %



18

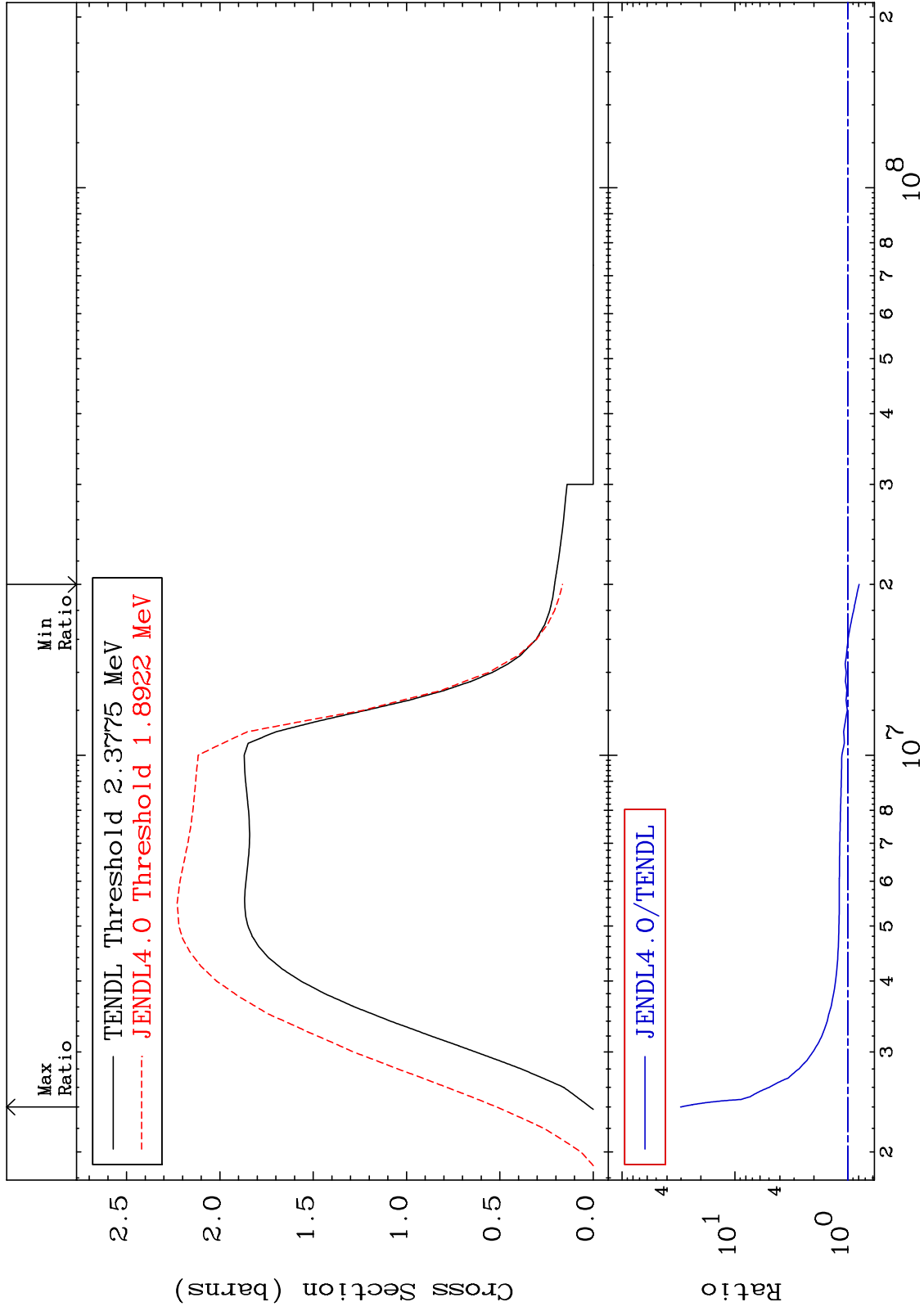
Incident Energy (eV)

54-Xe-126

MAT 5431

(n, n') Continuum
Cross Section

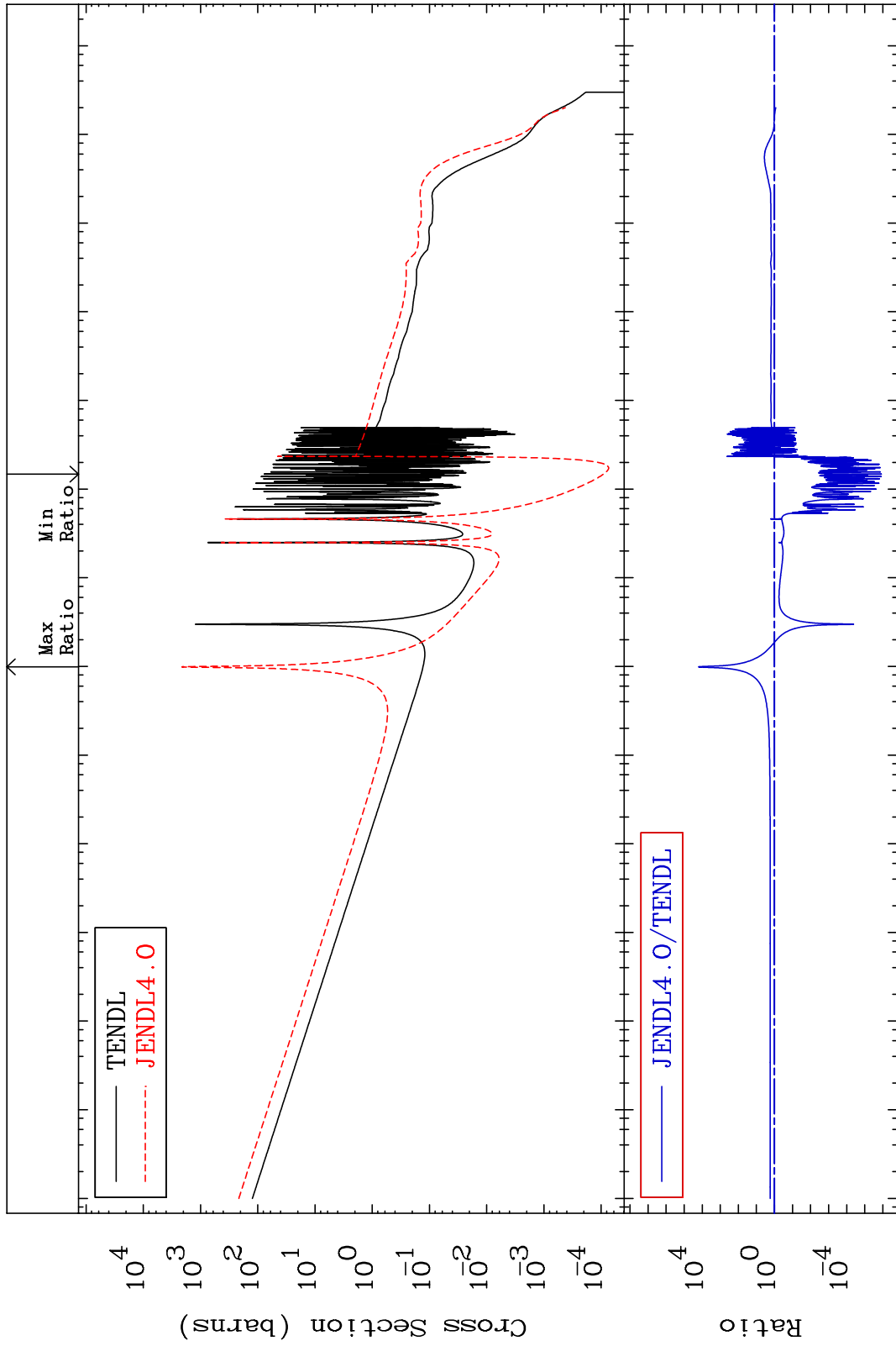
54-Xe-126
-20.61 To 2928. %



MAT 5431

(n, γ)
Cross Section

54-Xe-126
-100.0 To 9999. %

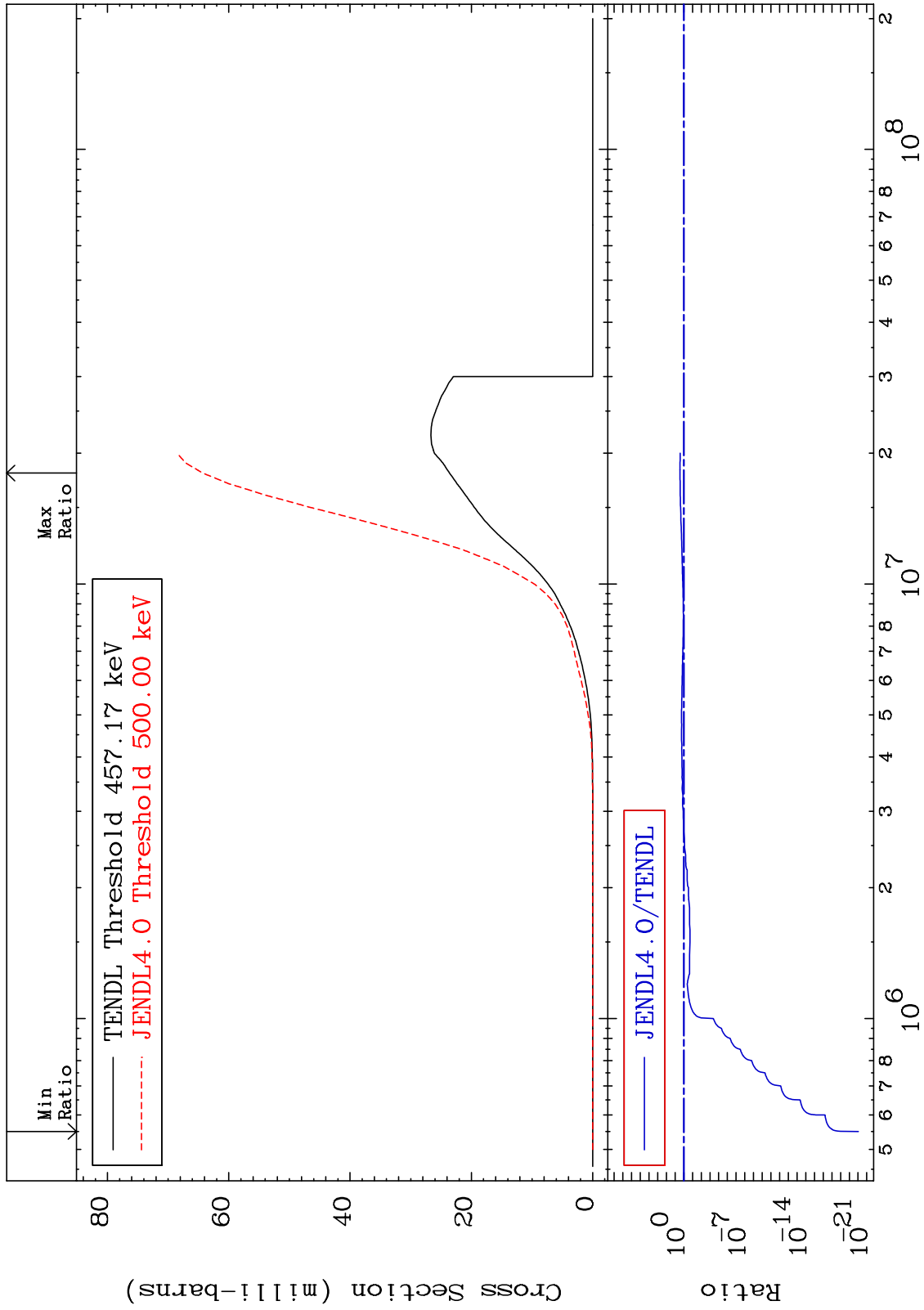


MAT 5431

(n,p)

54-Xe-126

Cross Section
-100.0 To 172.4 %



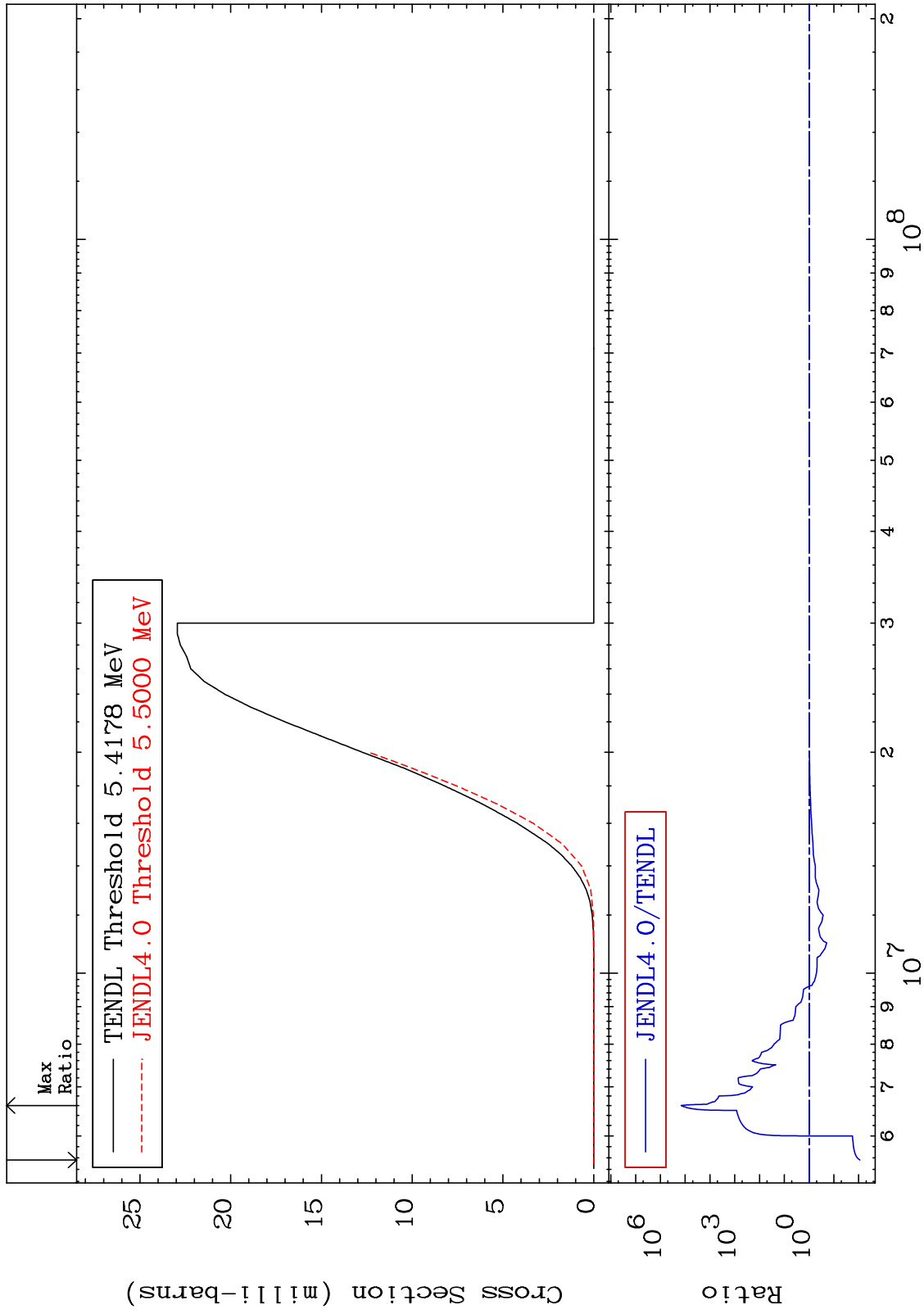
MAT 5431

(n, d)

54-Xe-126

Cross Section

-99.11 To 9999. %



22

Incident Energy (eV)

54-Xe-126

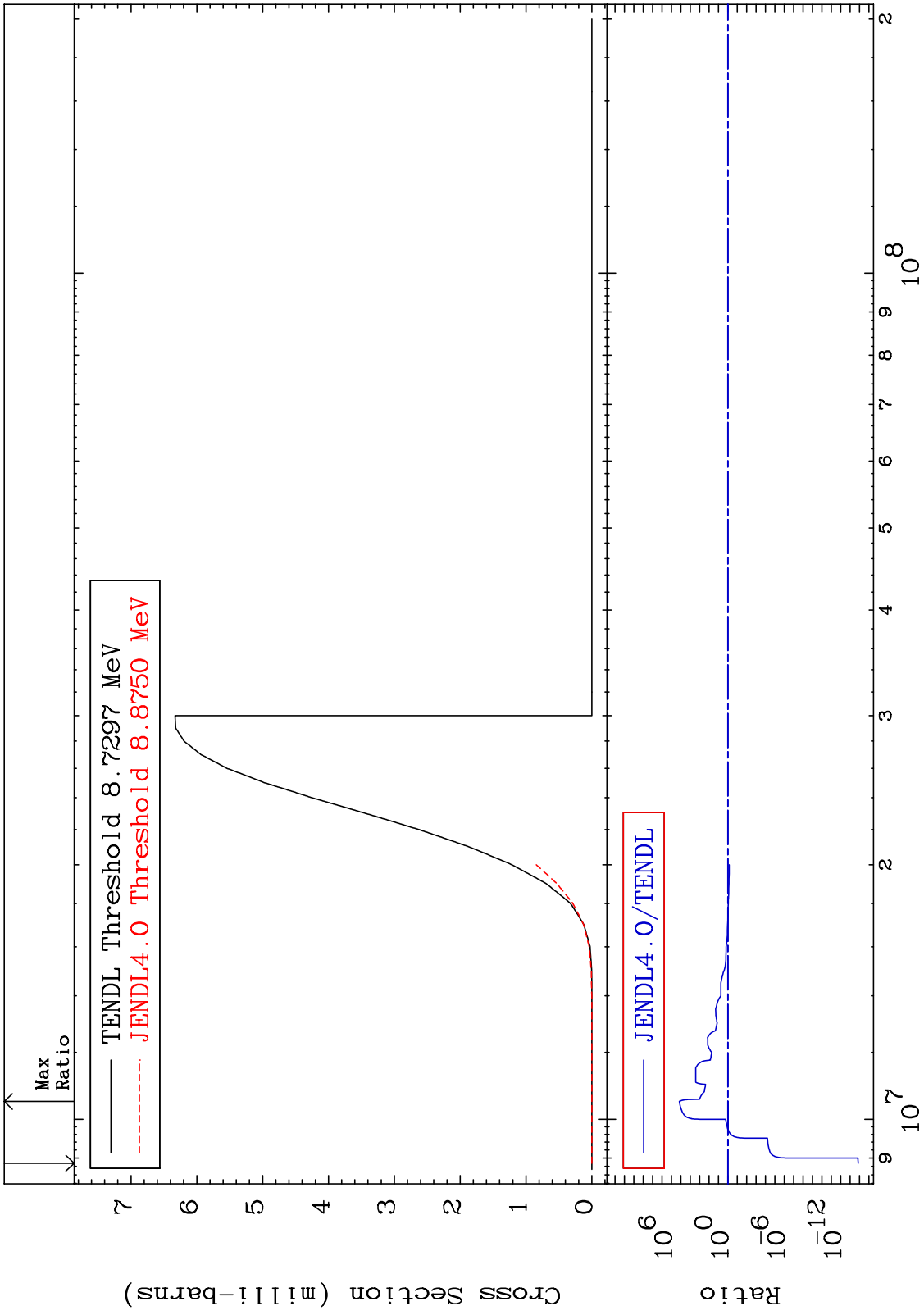
MAT 5431

(n, t)

54-Xe-126

Cross Section

-100.0 To 9999. %



23

Incident Energy (eV)

54-Xe-126

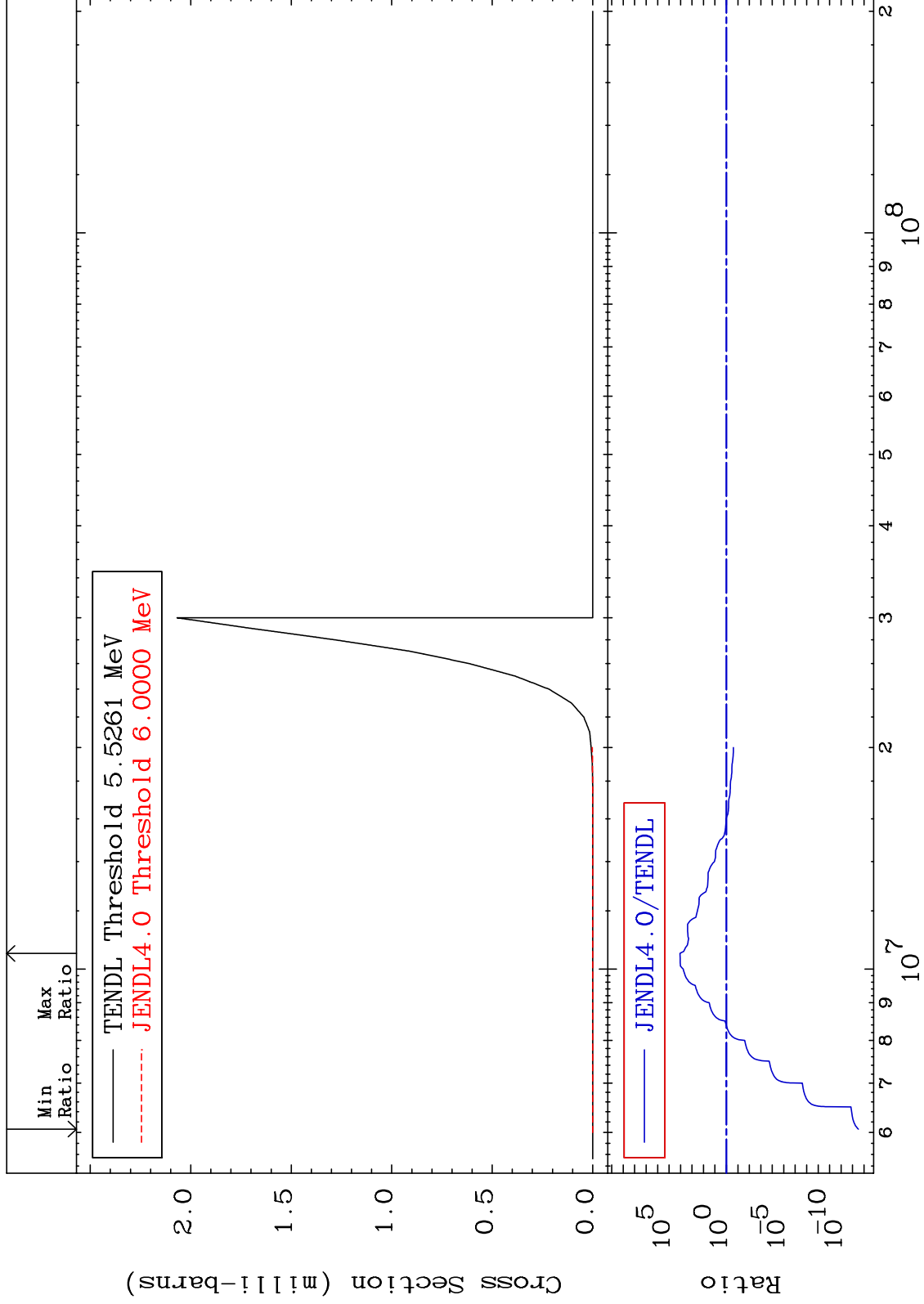
MAT 5431

(n, He-3)

54-Xe-126

Cross Section

-100.0 To 9999. %



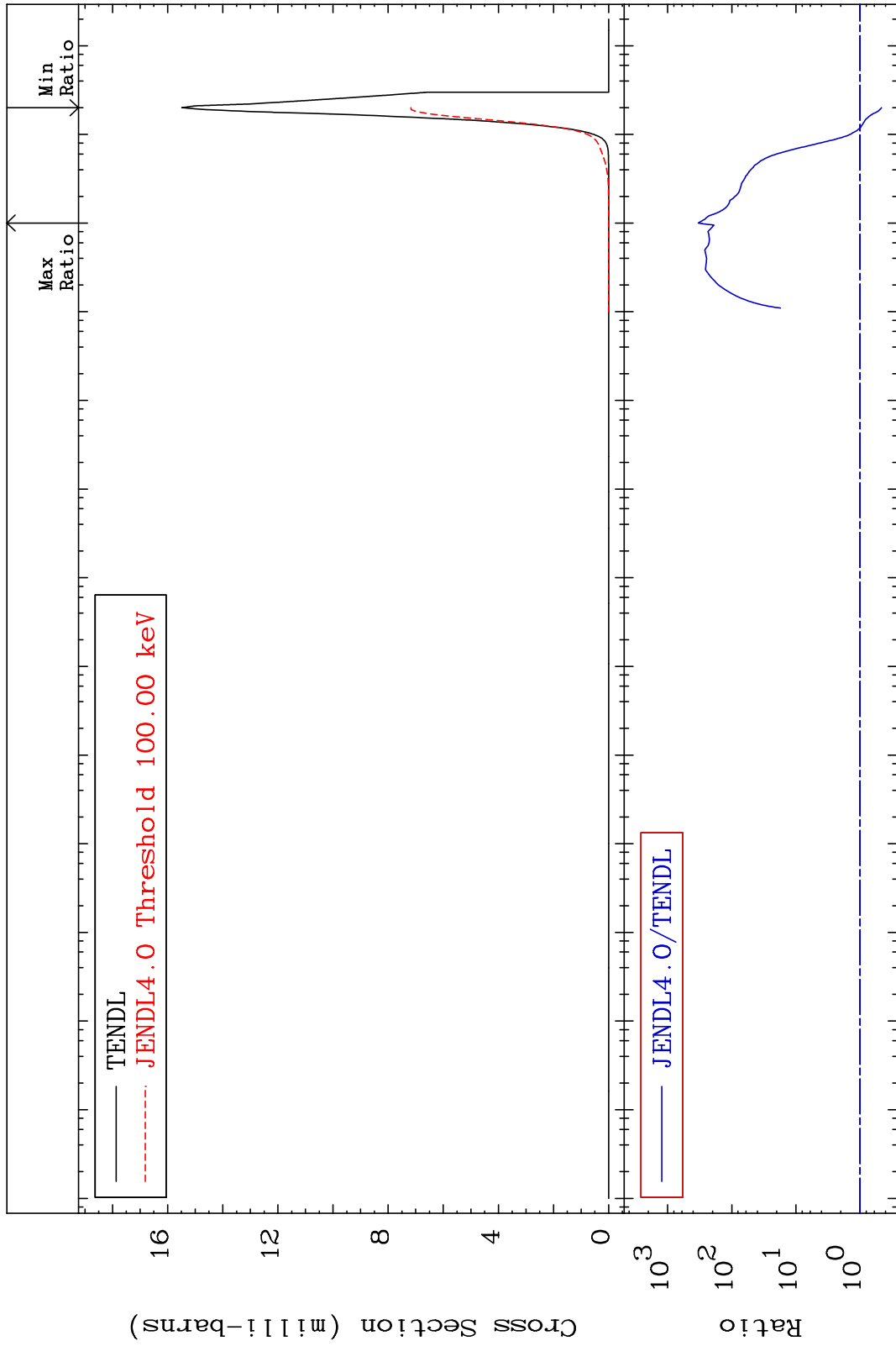
MAT 5431

(n, α)

54-Xe-126

Cross Section

-53.69 To 9999. %



Incident Energy (eV)

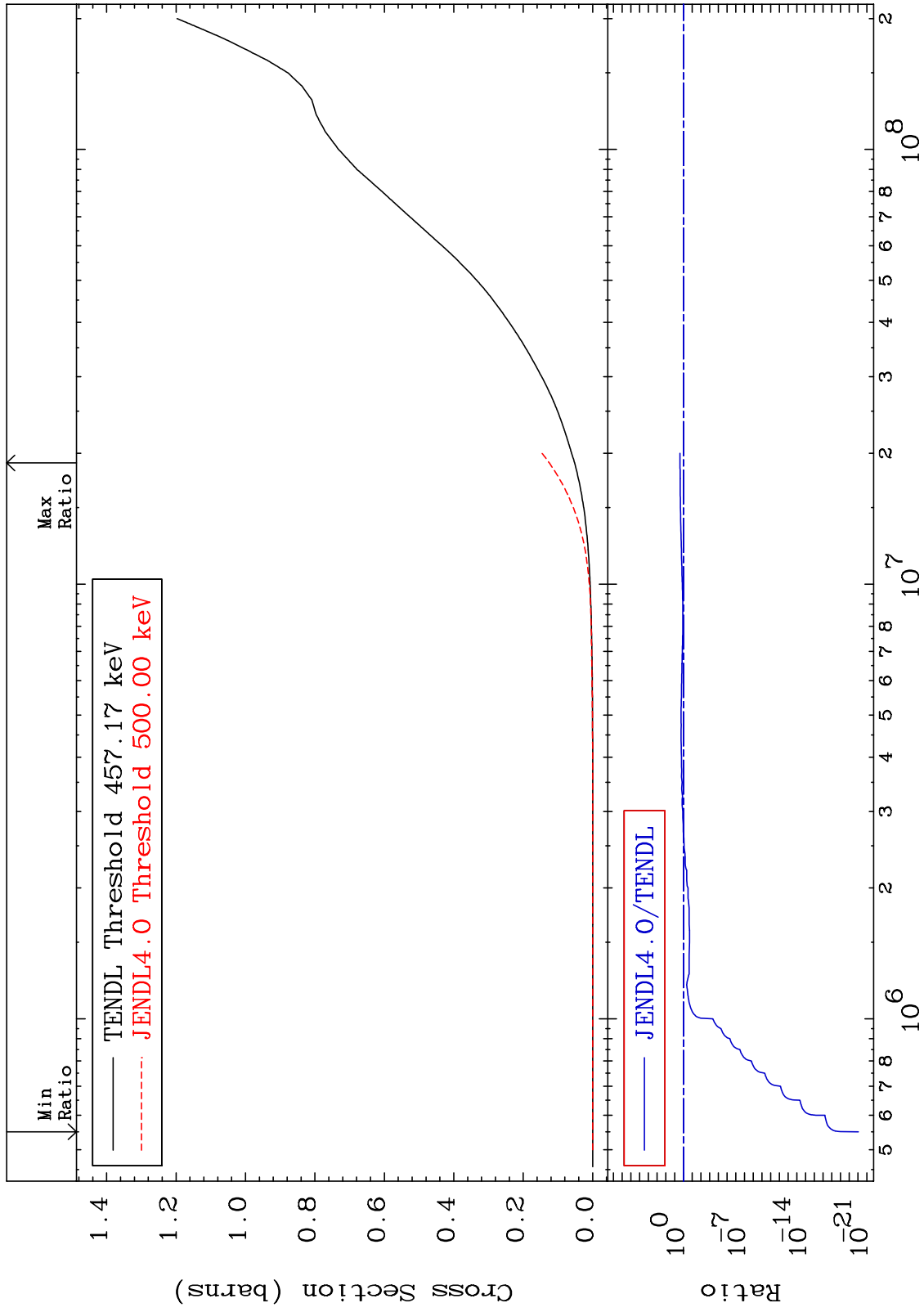
54-Xe-126

25

MAT 5431

Hydrogen Production
Cross Section

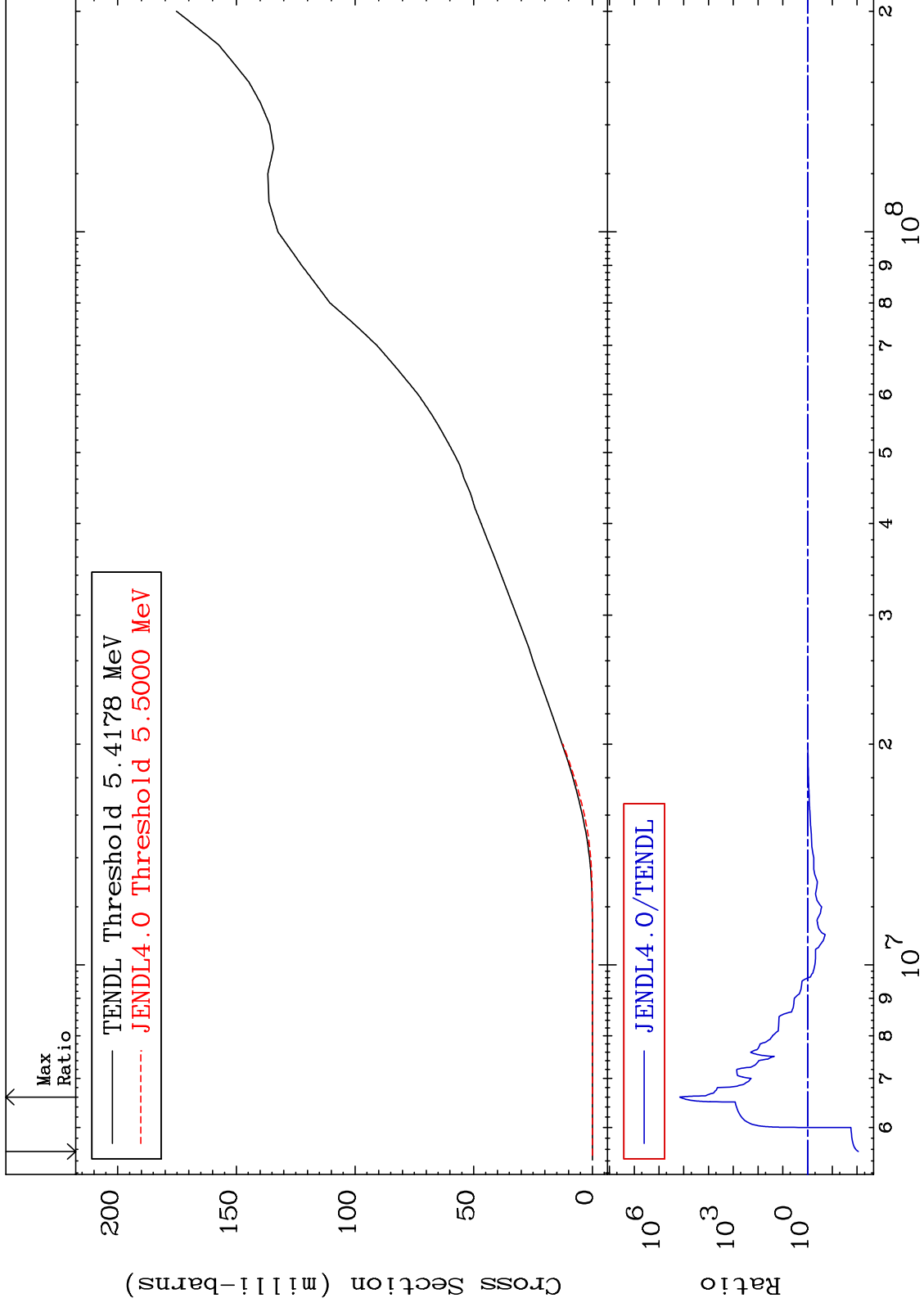
54-Xe-126
-100.0 To 140.5 %



MAT 5431

Deuterium Production
Cross Section

54-Xe-126
-99.11 To 9999. %



27

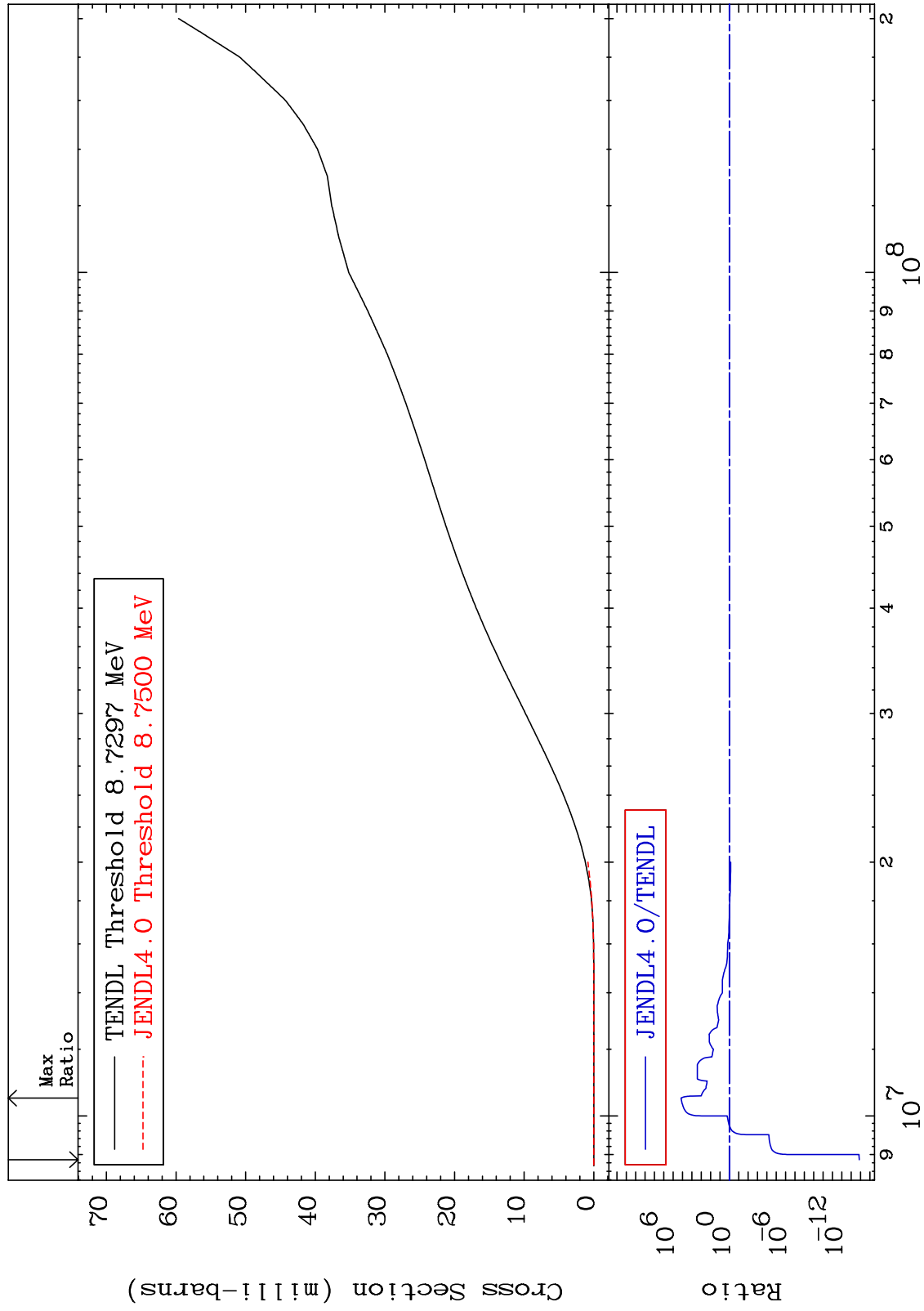
Incident Energy (eV)

54-Xe-126

MAT 5431

Tritium Production
Cross Section

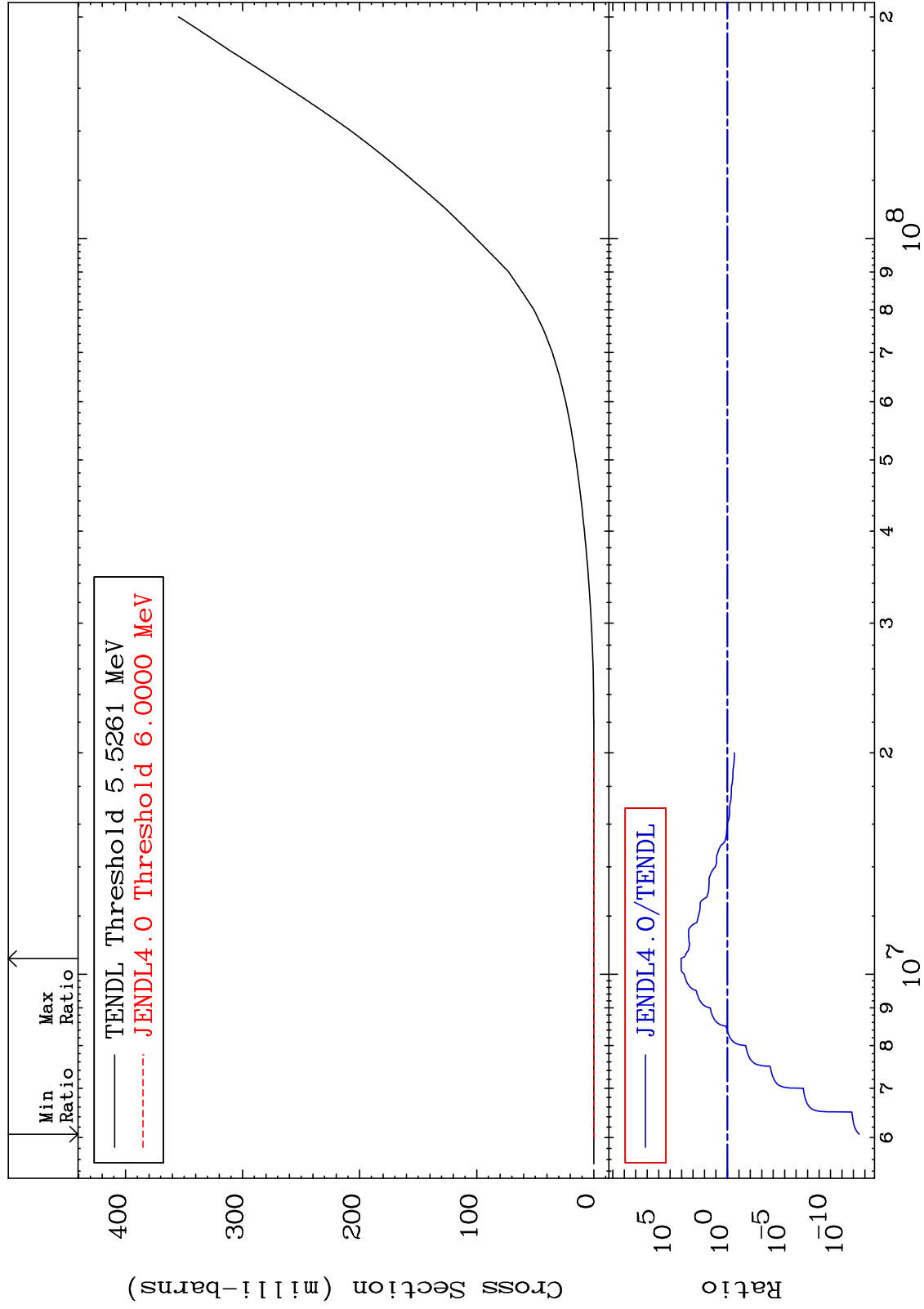
54-Xe-126
-100.0 To 9999. %



MAT 5431

He-3 Production
Cross Section

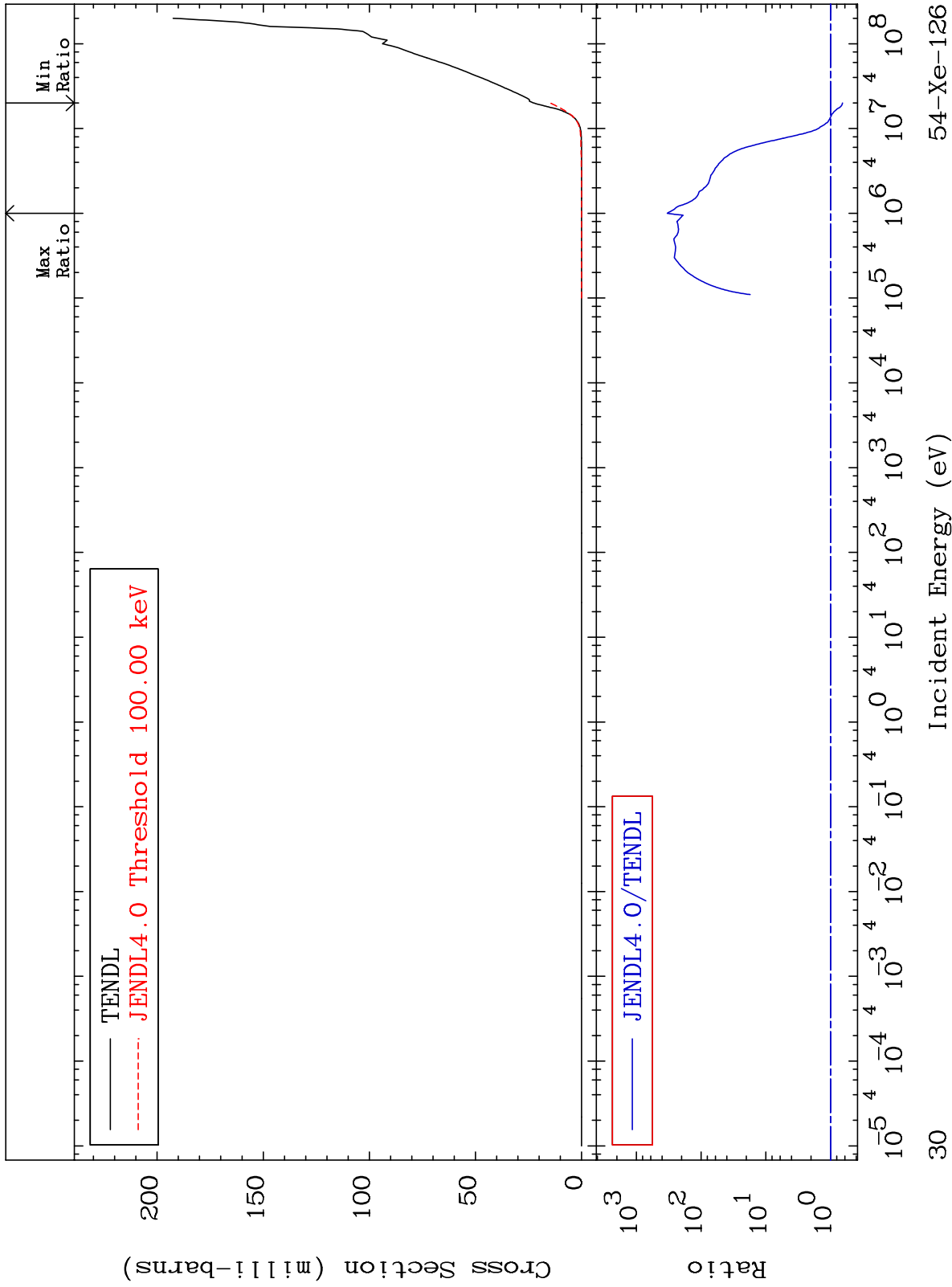
54-Xe-126
-100.0 To 9999. %



MAT 5431

He-4 Production
Cross Section

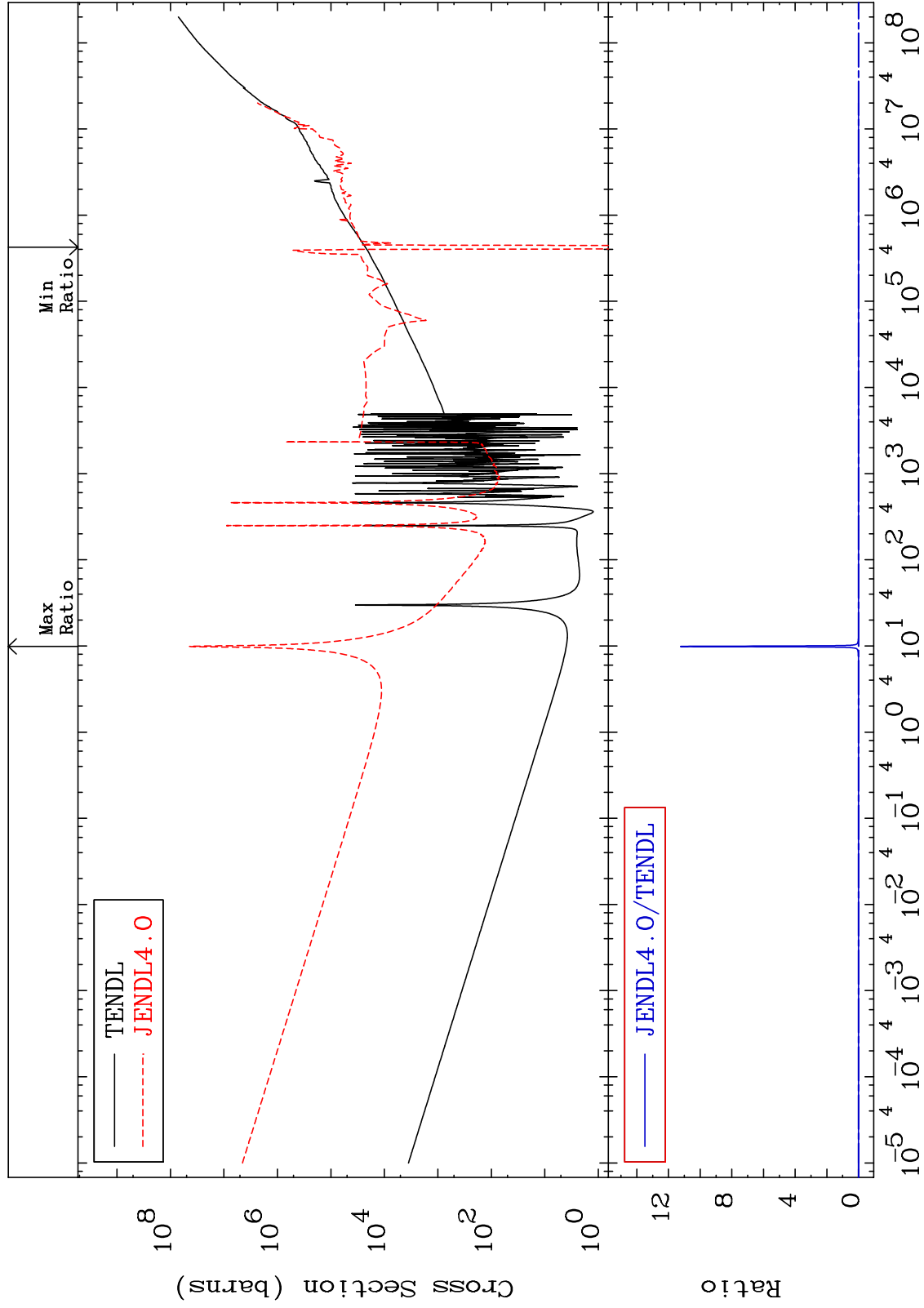
54-Xe-126
-35.01 To 9999. %



MAT 5431

Kerma total (eV-barns)
Cross Section

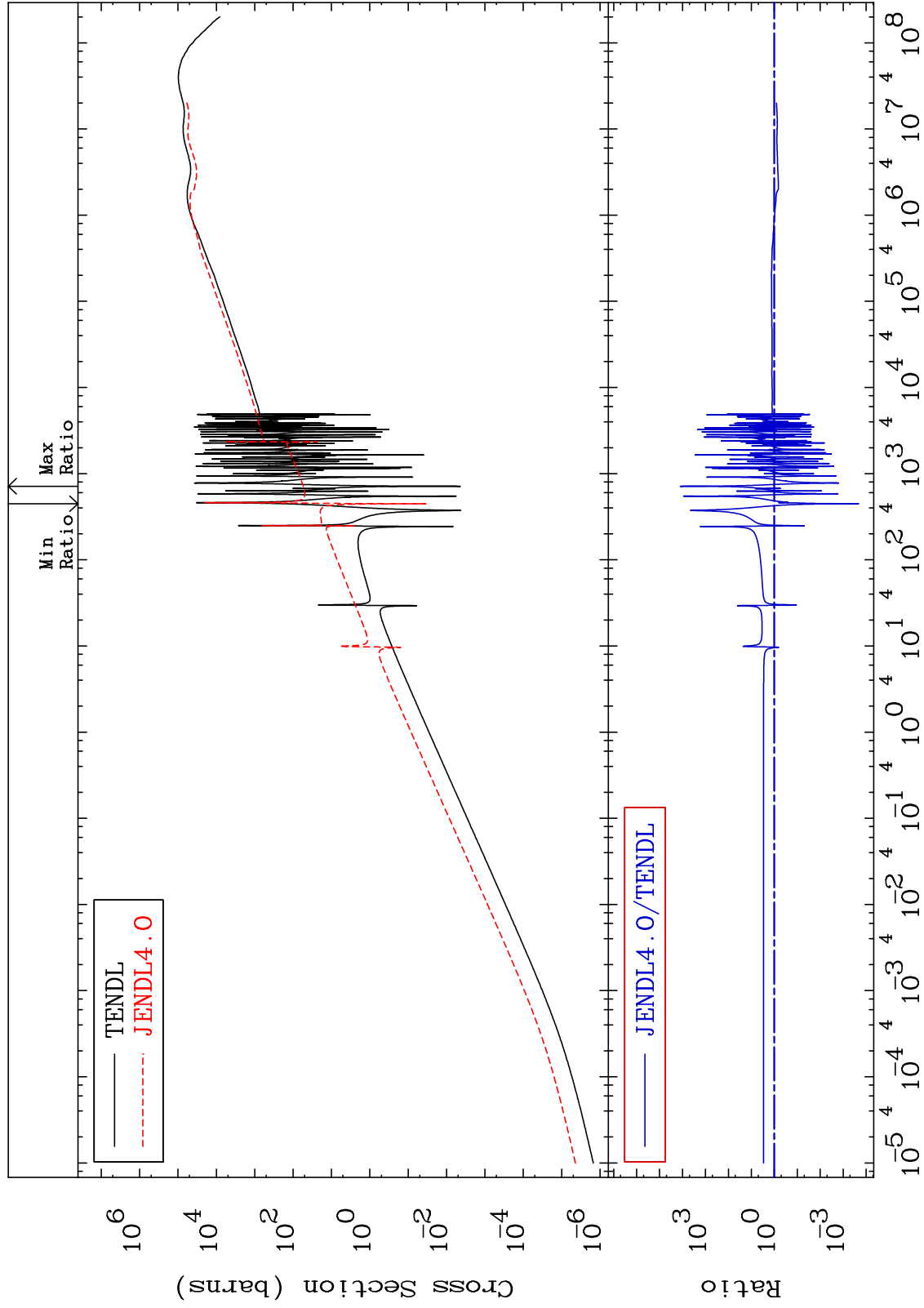
54-Xe-126
-398.2 To 9999. %



MAT 5431

Kerma elastic
Cross Section

54-Xe-126
-99.98 To 9999. %



32

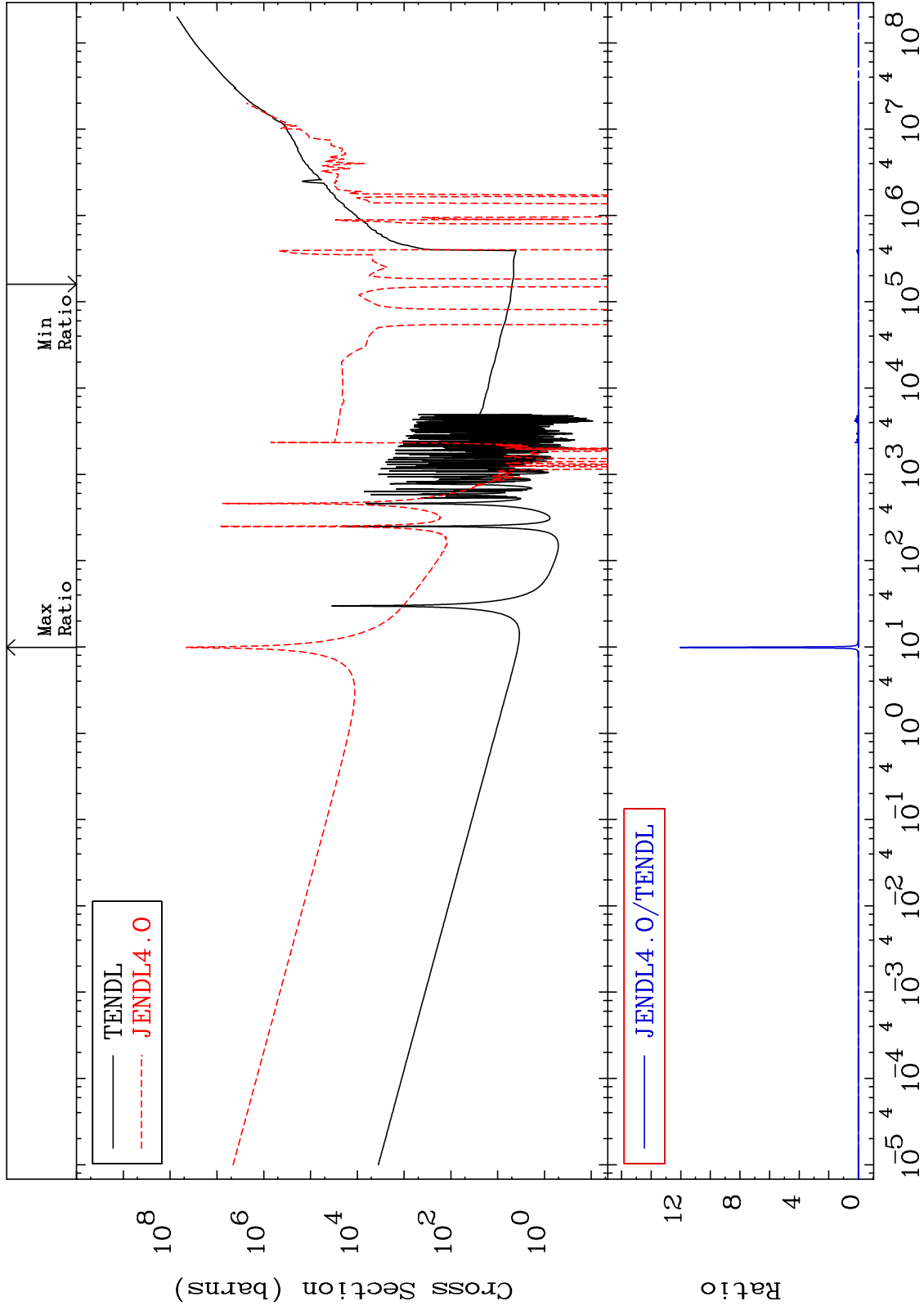
Incident Energy (eV)

54-Xe-126

MAT 5431

Kerma non-elastic (all but mt2)
Cross Section

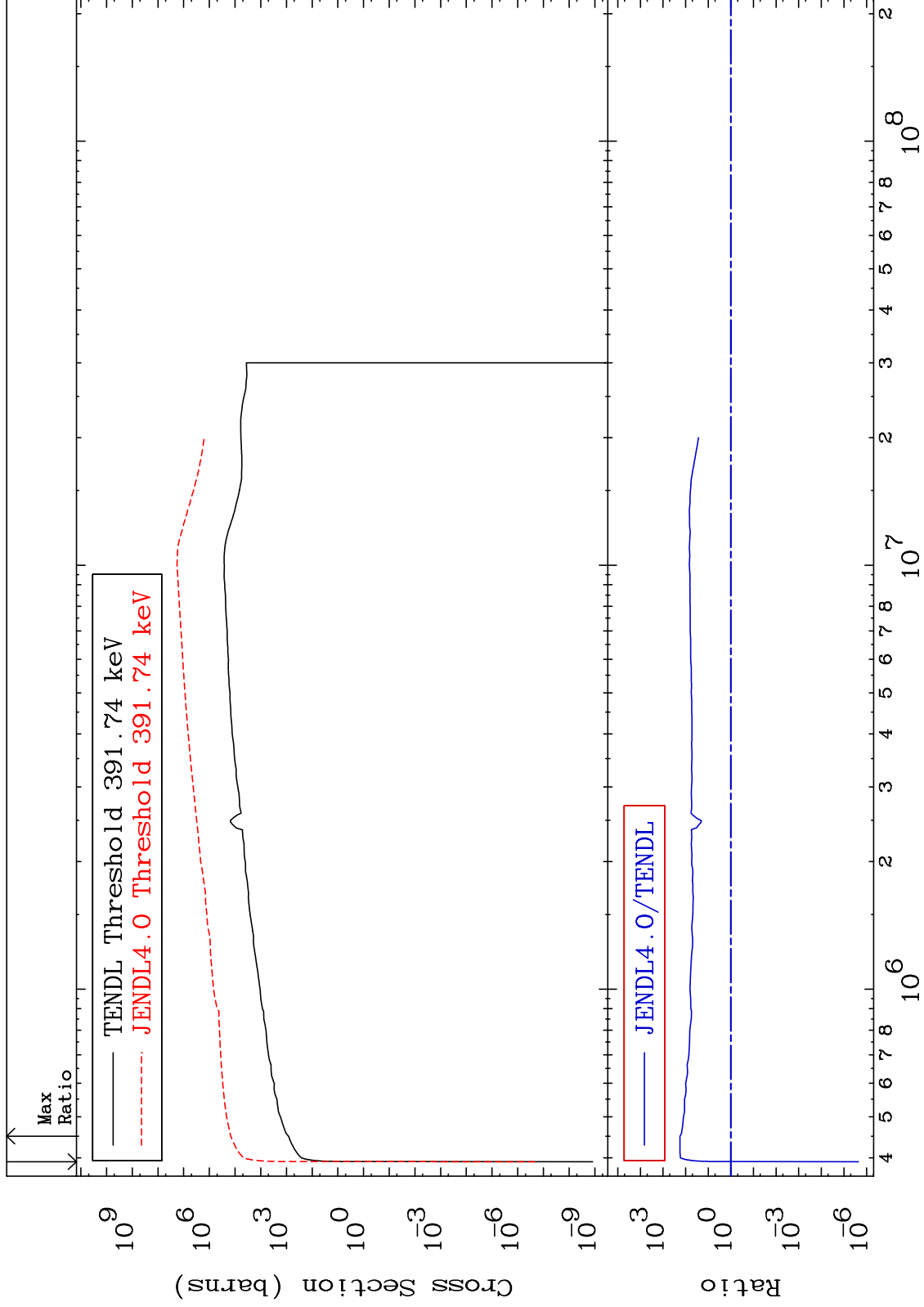
54-Xe-126
-9999. To 9999. %



MAT 5431

Kerma inelastic (mt51-91)
Cross Section

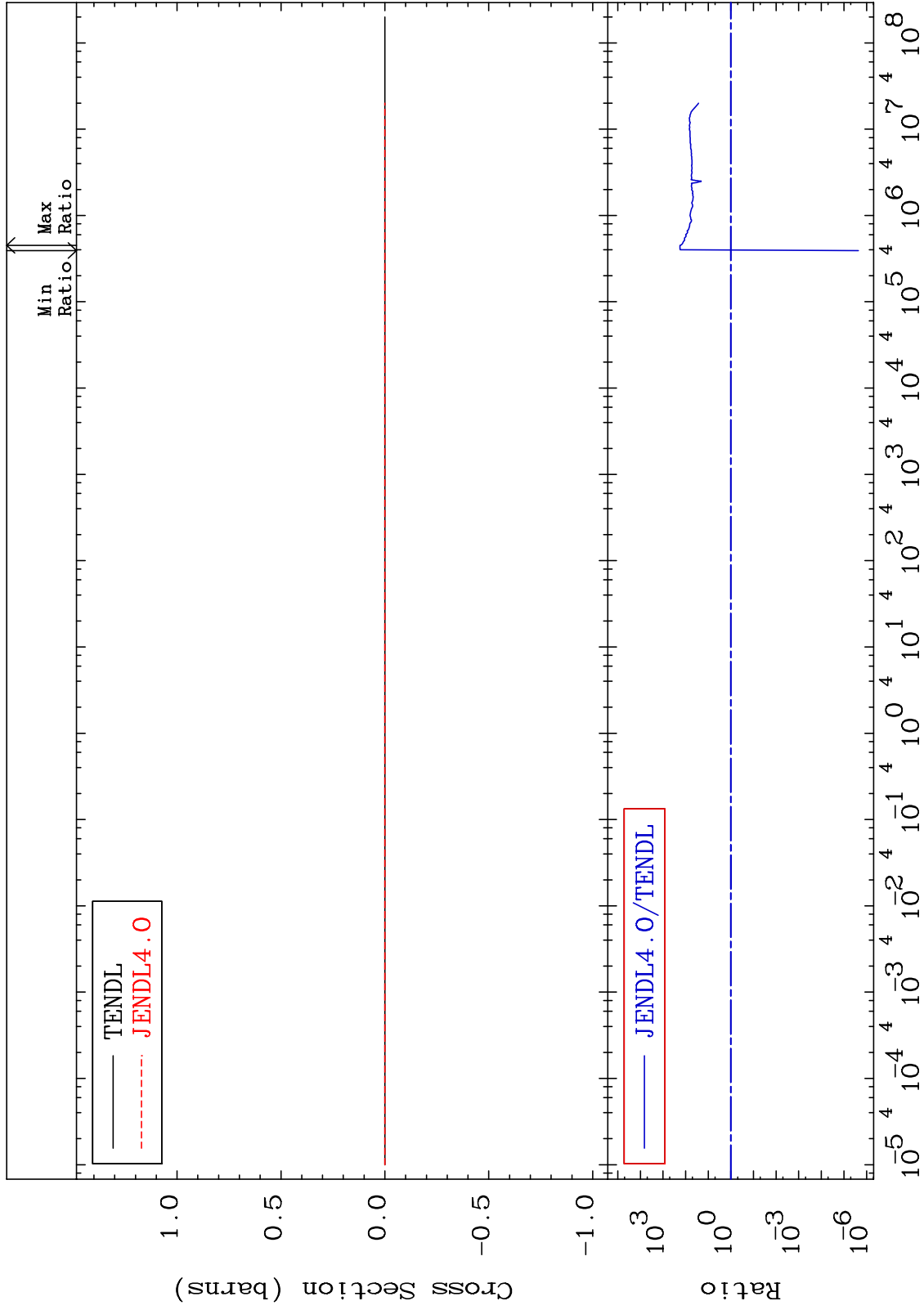
54-Xe-126
-100.0 To 9999. %



MAT 5431

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

54-Xe-126
-100.0 To 9999. %



35

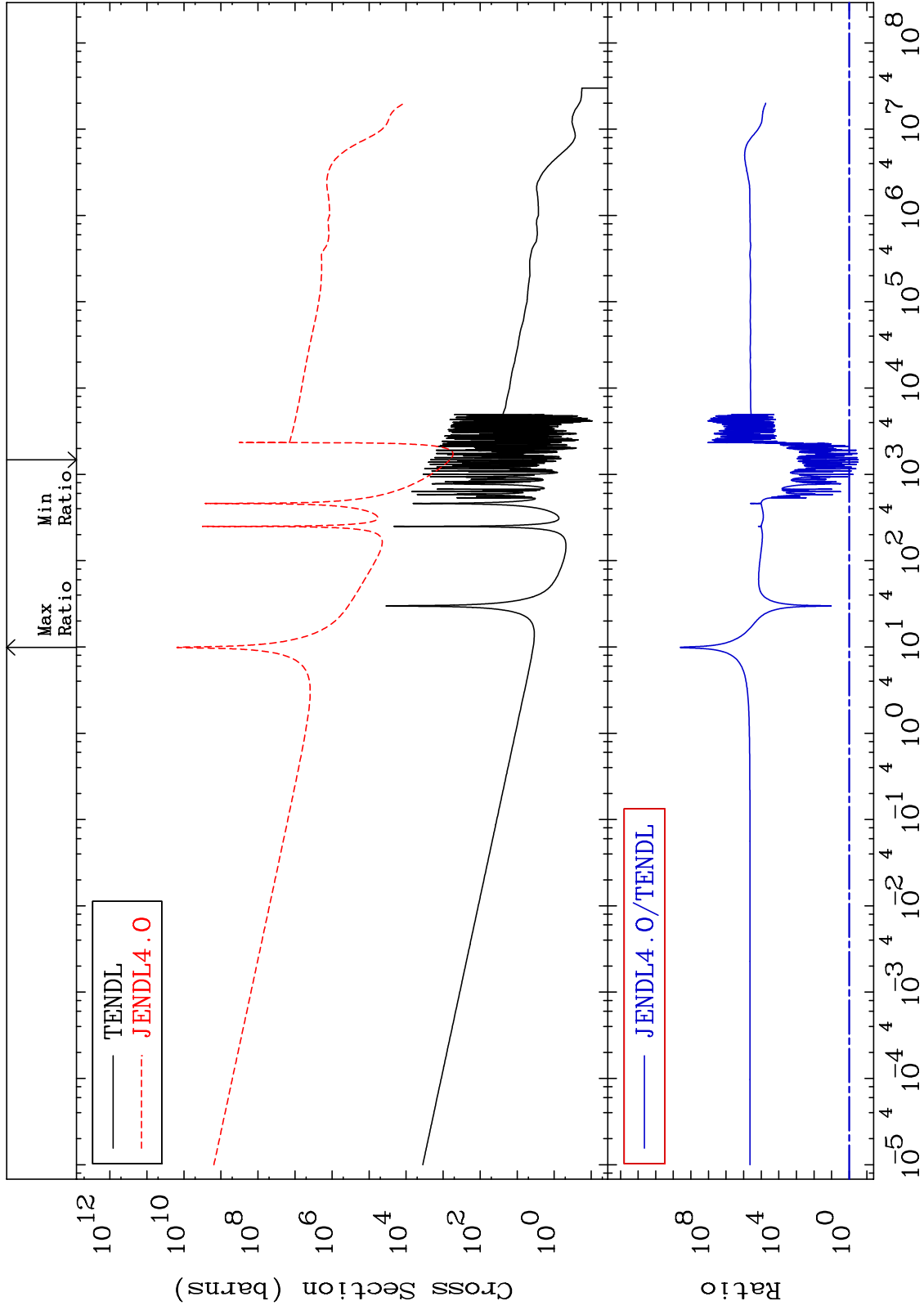
Incident Energy (eV)

54-Xe-126

MAT 5431

Kerma capture (mt102)
Cross Section

54-Xe-126
-70.12 To 9999. %



36

Incident Energy (eV)

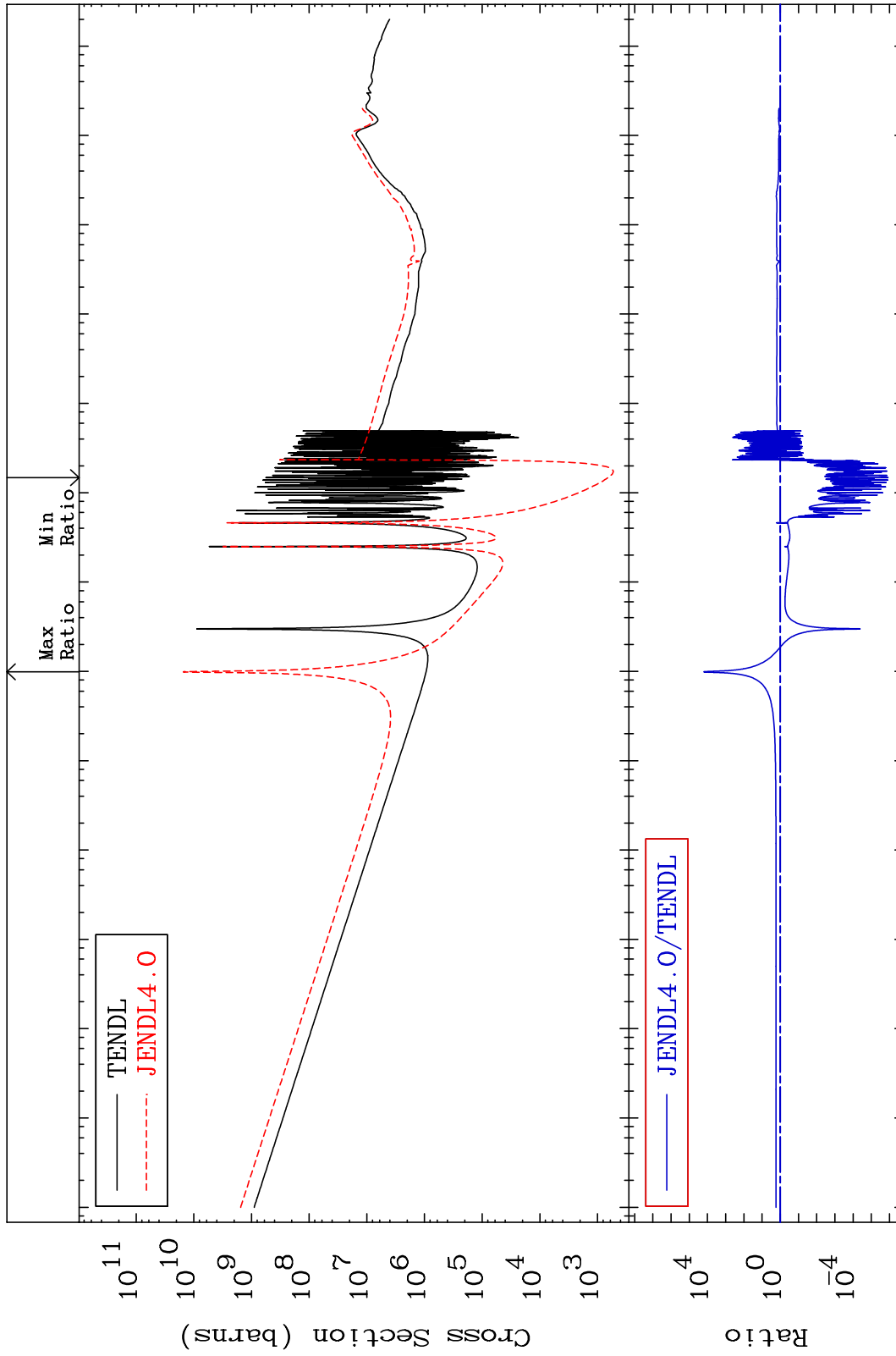
54-Xe-126

MAT 5431

Total photon (eV-barns)
Cross Section

54-Xe-126

-100.0 To 9999. %



Incident Energy (eV)

37

54-Xe-126

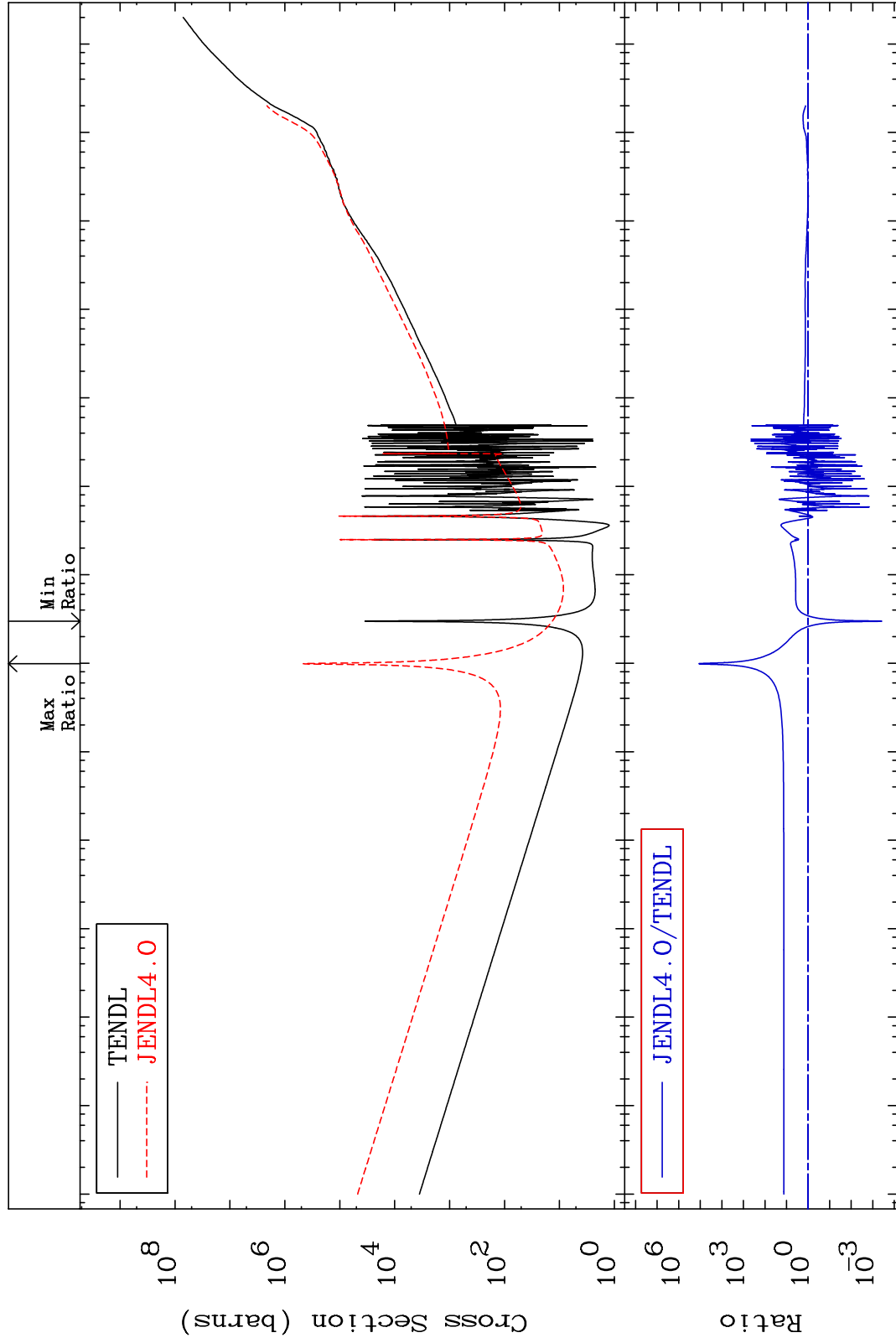
MAT 5431

Total kinematic kerma (high limit)

54-Xe-126

-99.96 To 9999. %

Cross Section



38

Incident Energy (eV)

54-Xe-126

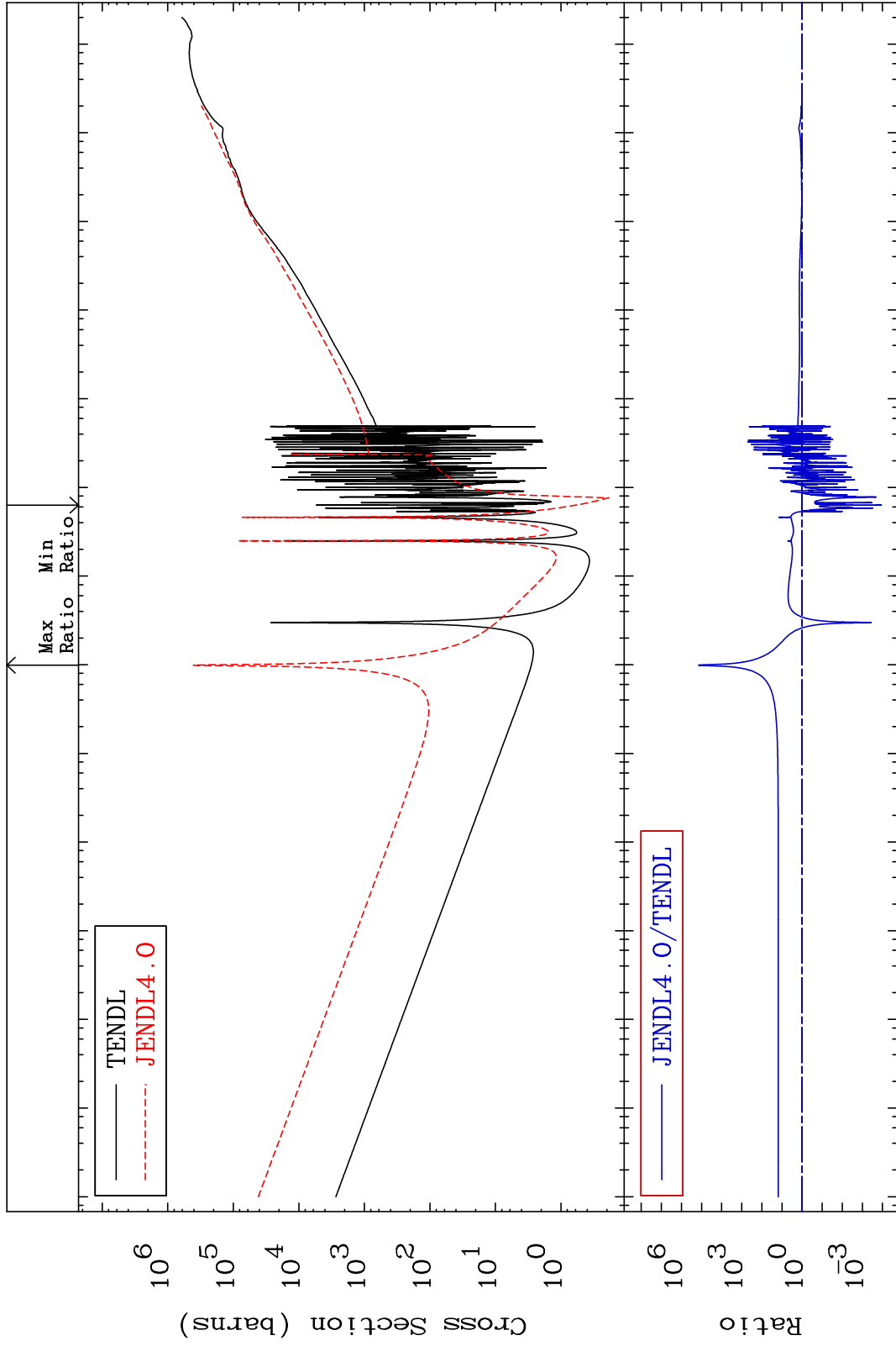
MAT 5431

Dpa total (eV-barns)

54-Xe-126

-99.99 To 9999. %

Cross Section



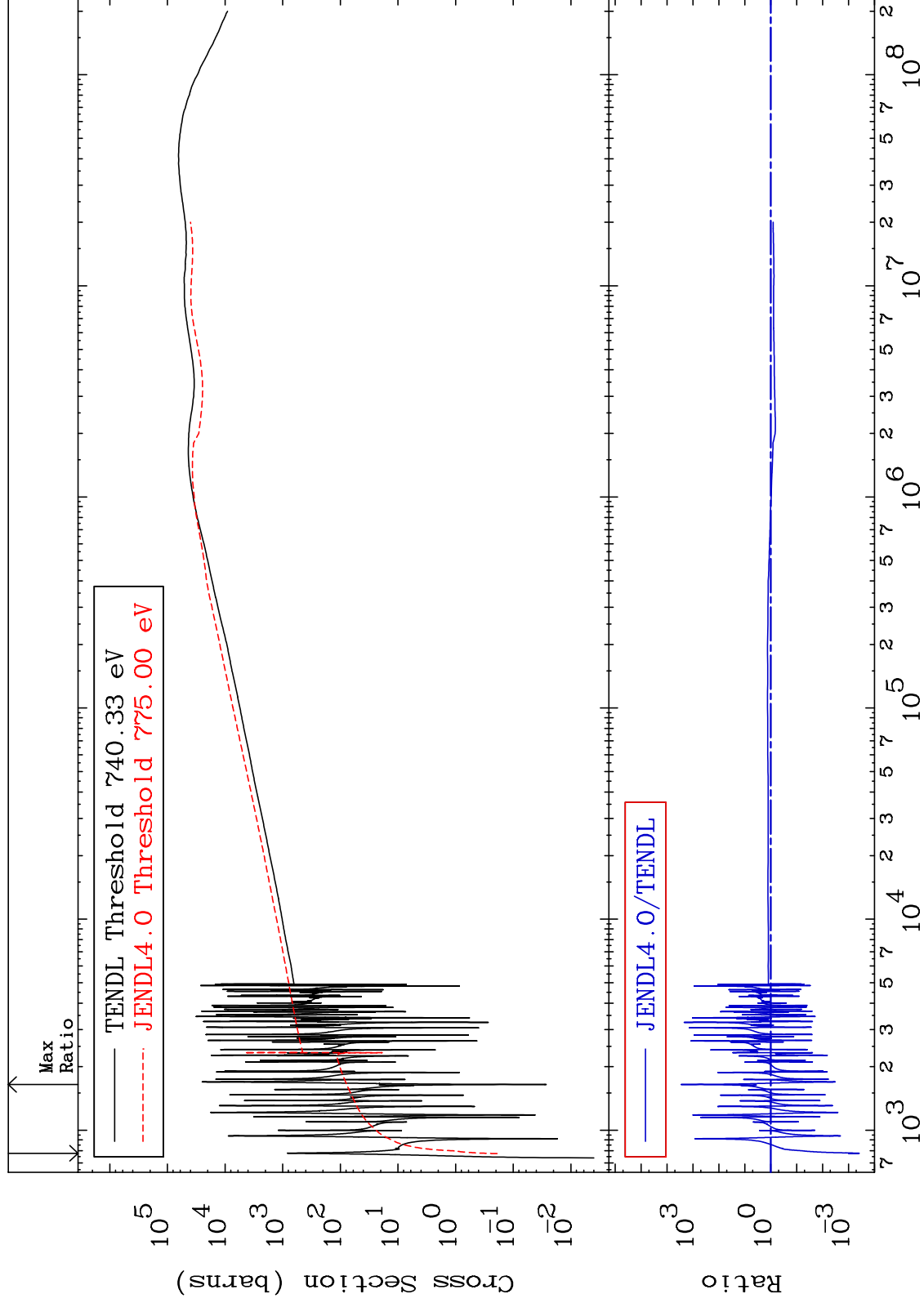
— TENDL
- - - JENDL4.0

— JENDL4.0/TENDL

MAT 5431

Dpa elastic (mt2)
Cross Section

54-Xe-126
-99.96 To 9999. %



40

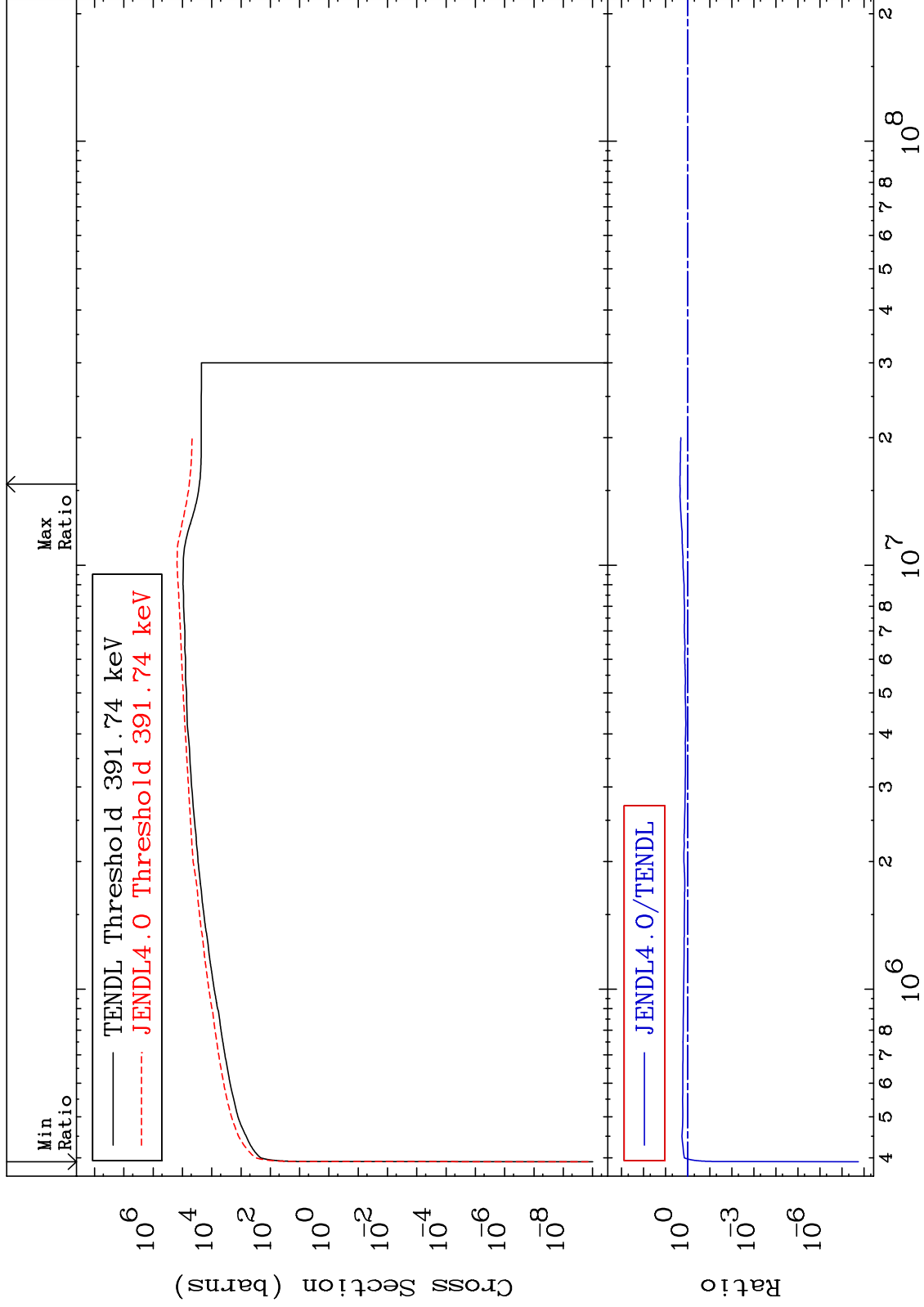
Incident Energy (eV)

54-Xe-126

MAT 5431

Dpa inelastic (mt51-91)
Cross Section

54-Xe-126
-100.0 To 122.4 %



41

54-Xe-126

54-Xe-126

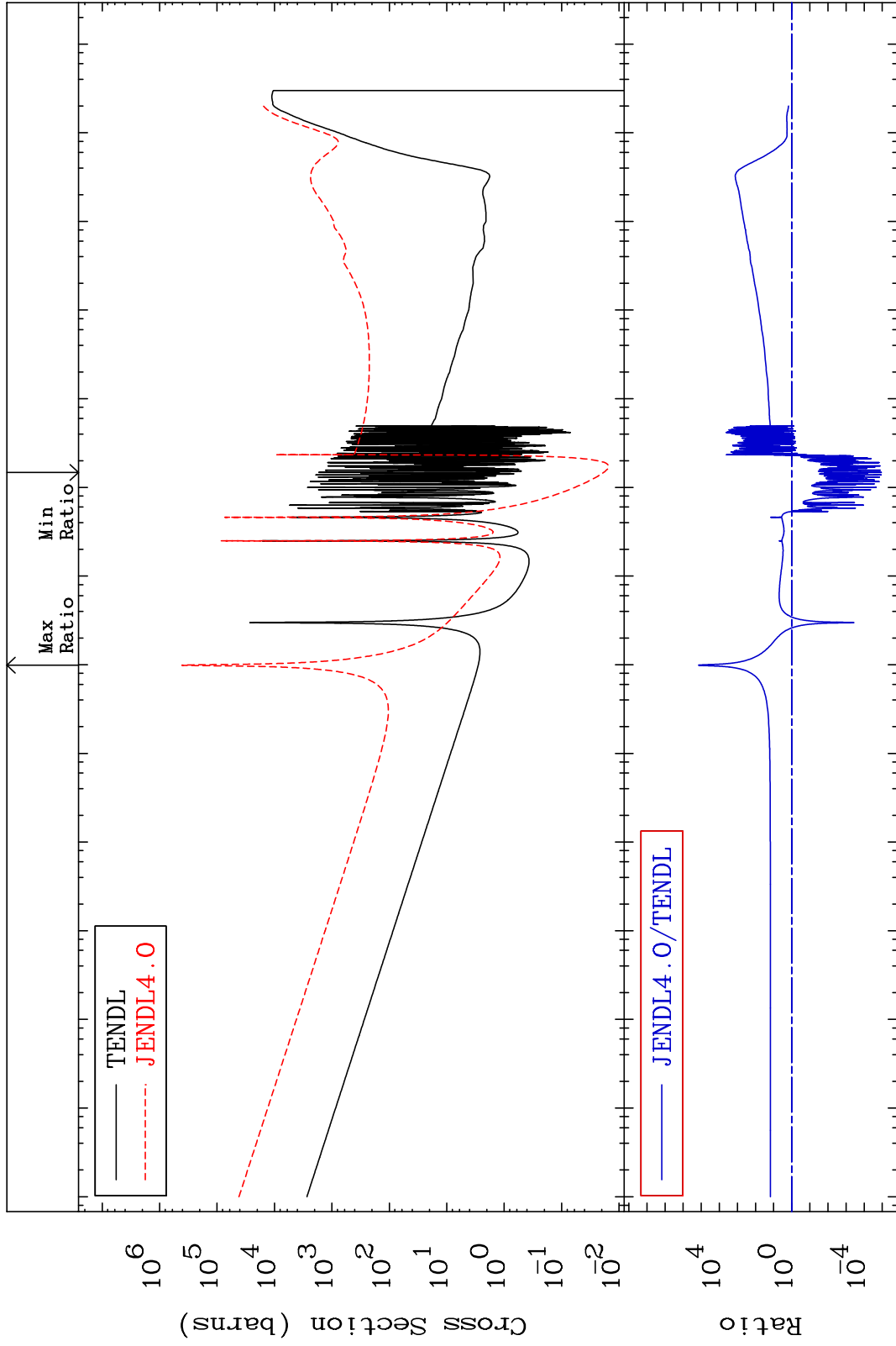
MAT 5431

Dpa disappearance (mt102 -120)

54-Xe-126

-100.0 To 9999. %

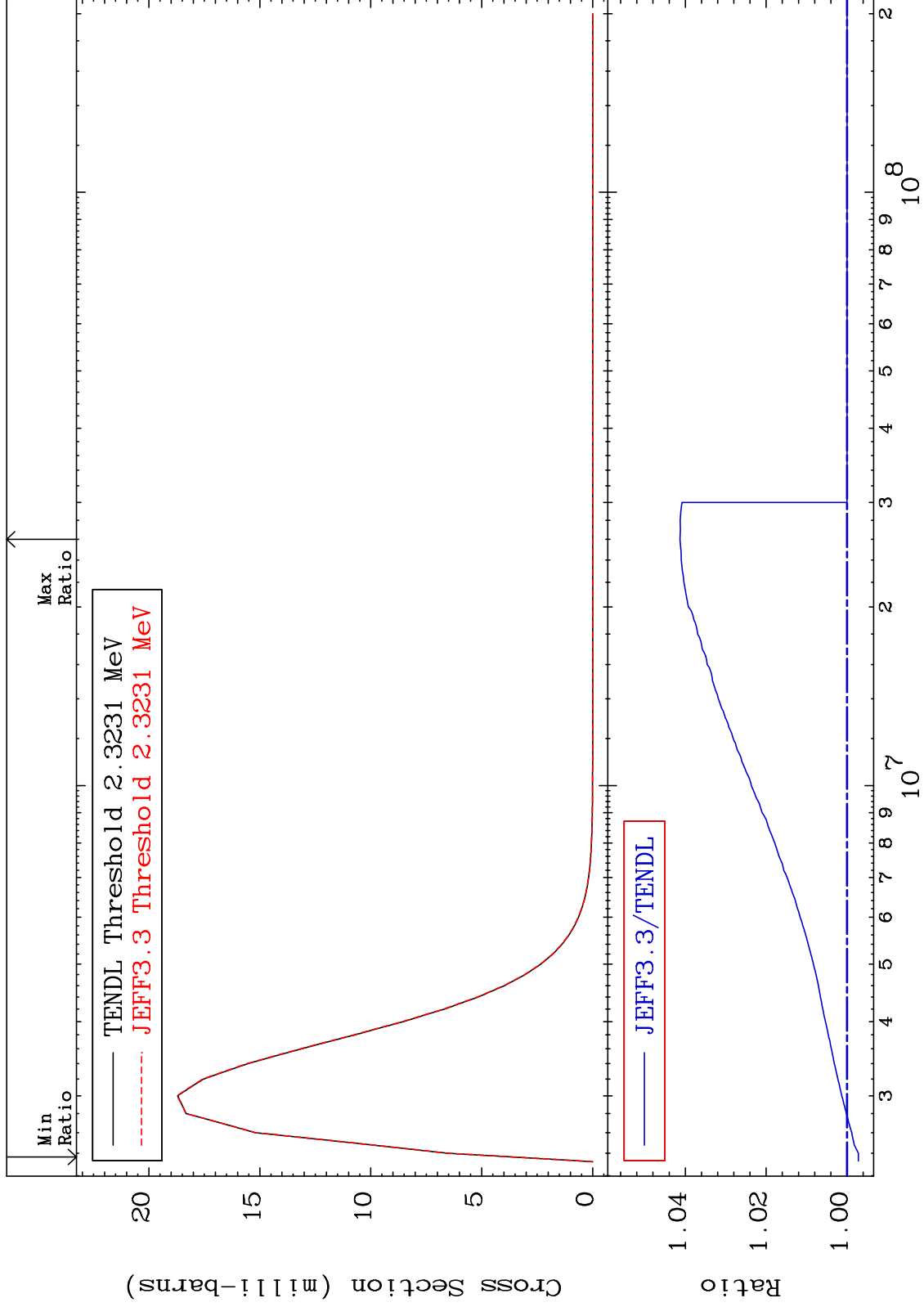
Cross Section



MAT 5431

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

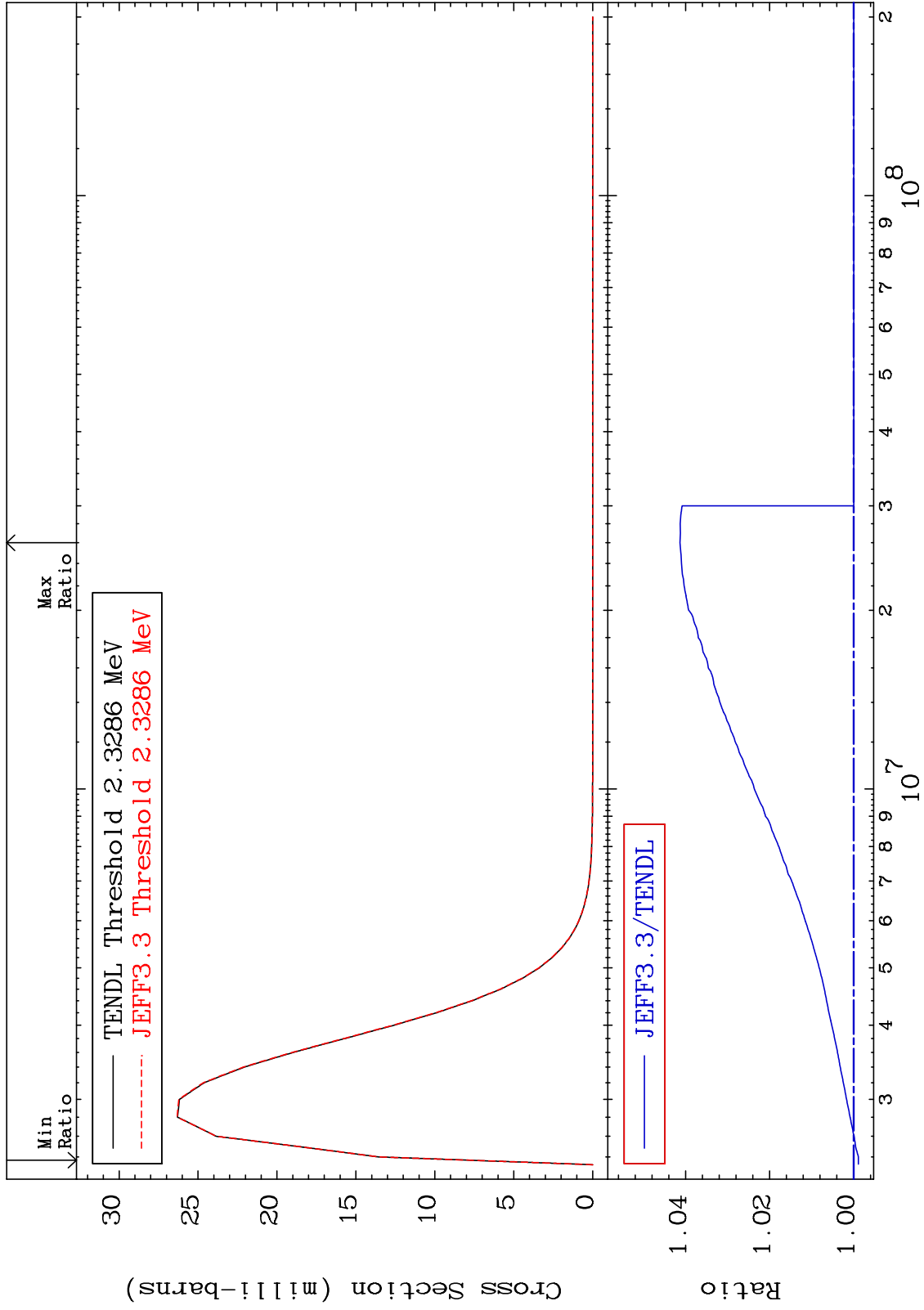
54-Xe-126
-0.282 To 4.132 %



MAT 5431

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

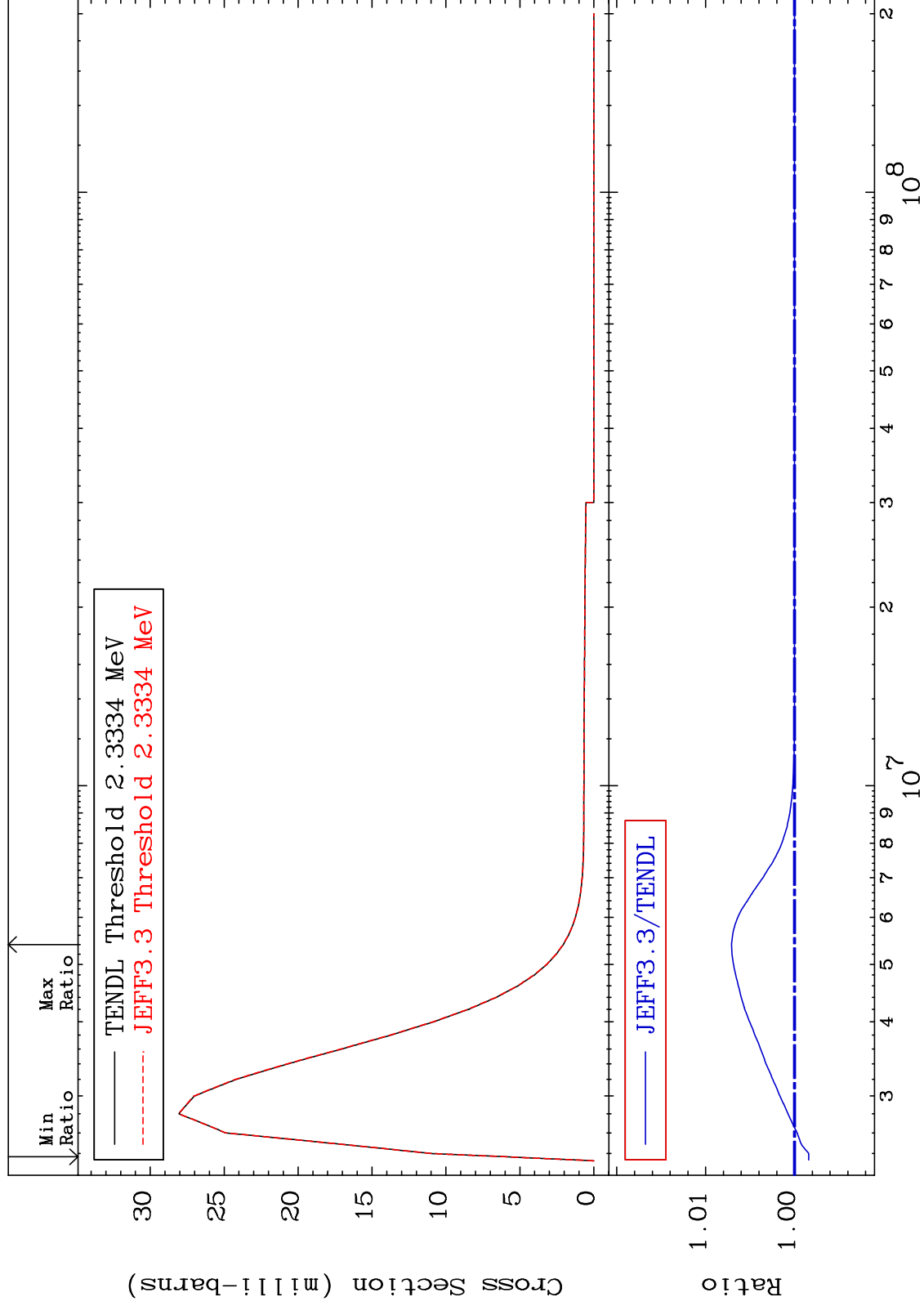
54-Xe-126
-0.113 To 4.135 %



MAT 5431

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

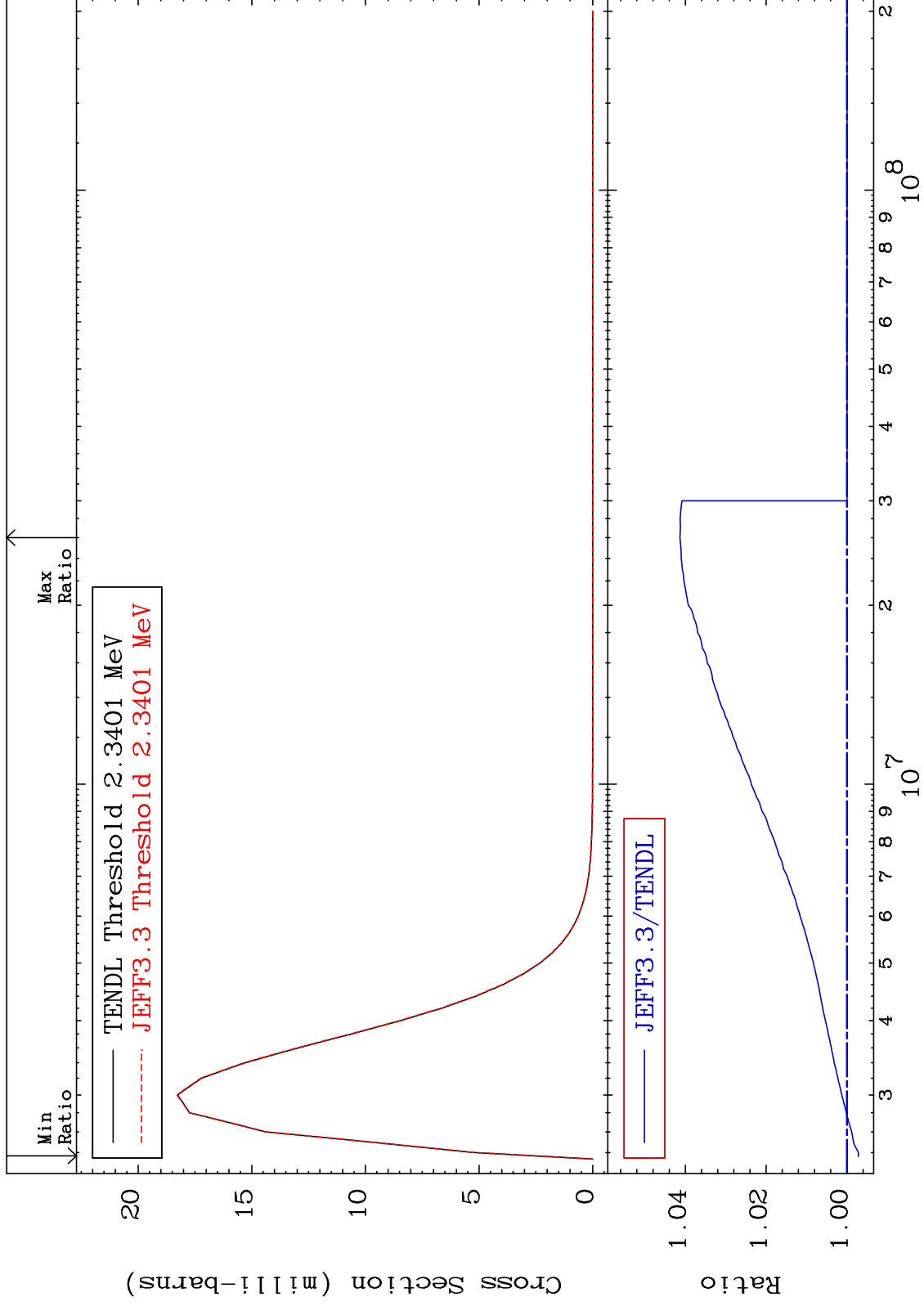
54-Xe-126
-0.160 To 0.709 %



MAT 5431

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

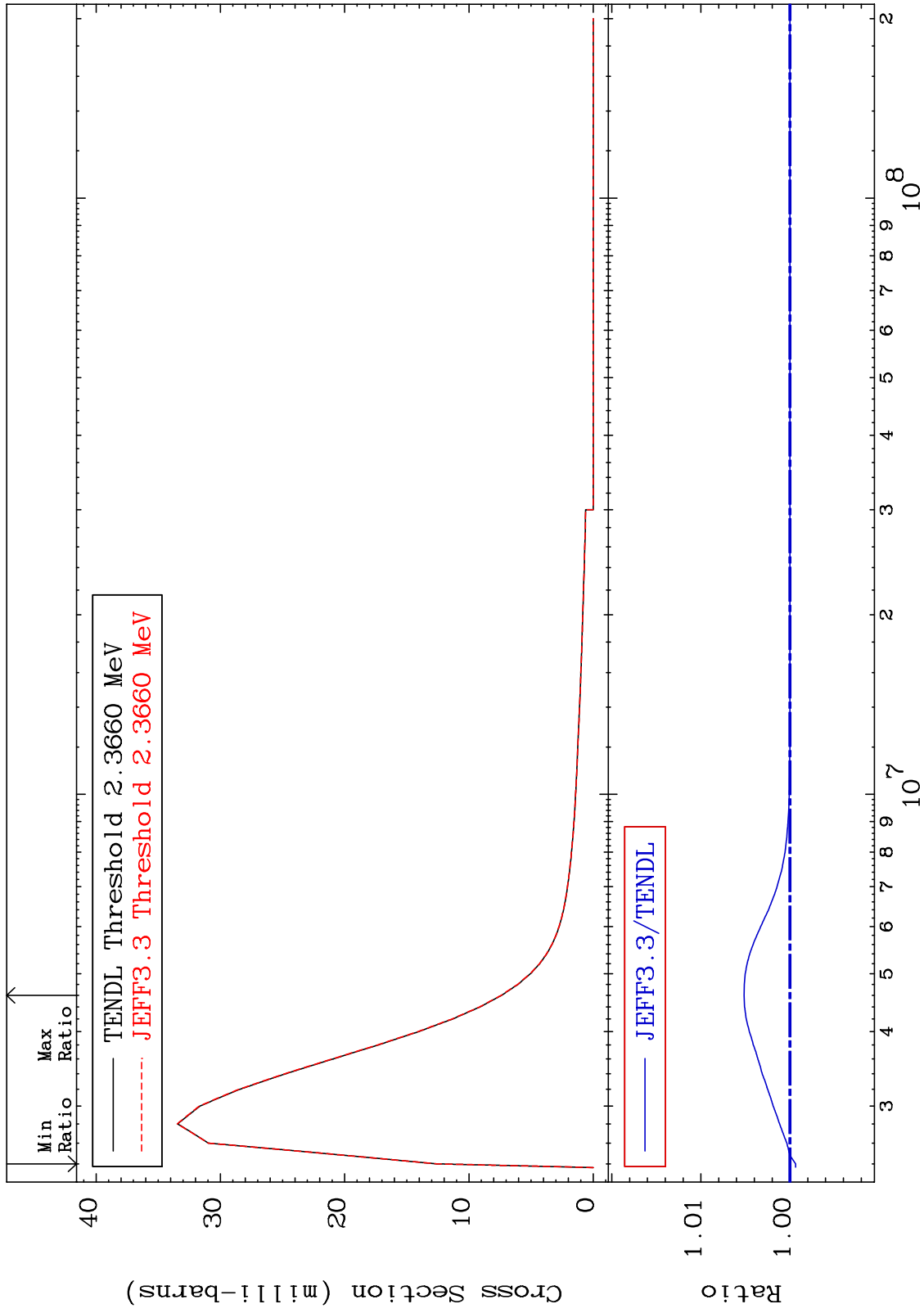
54-Xe-126
-0.284 To 4.132 %



MAT 5431

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

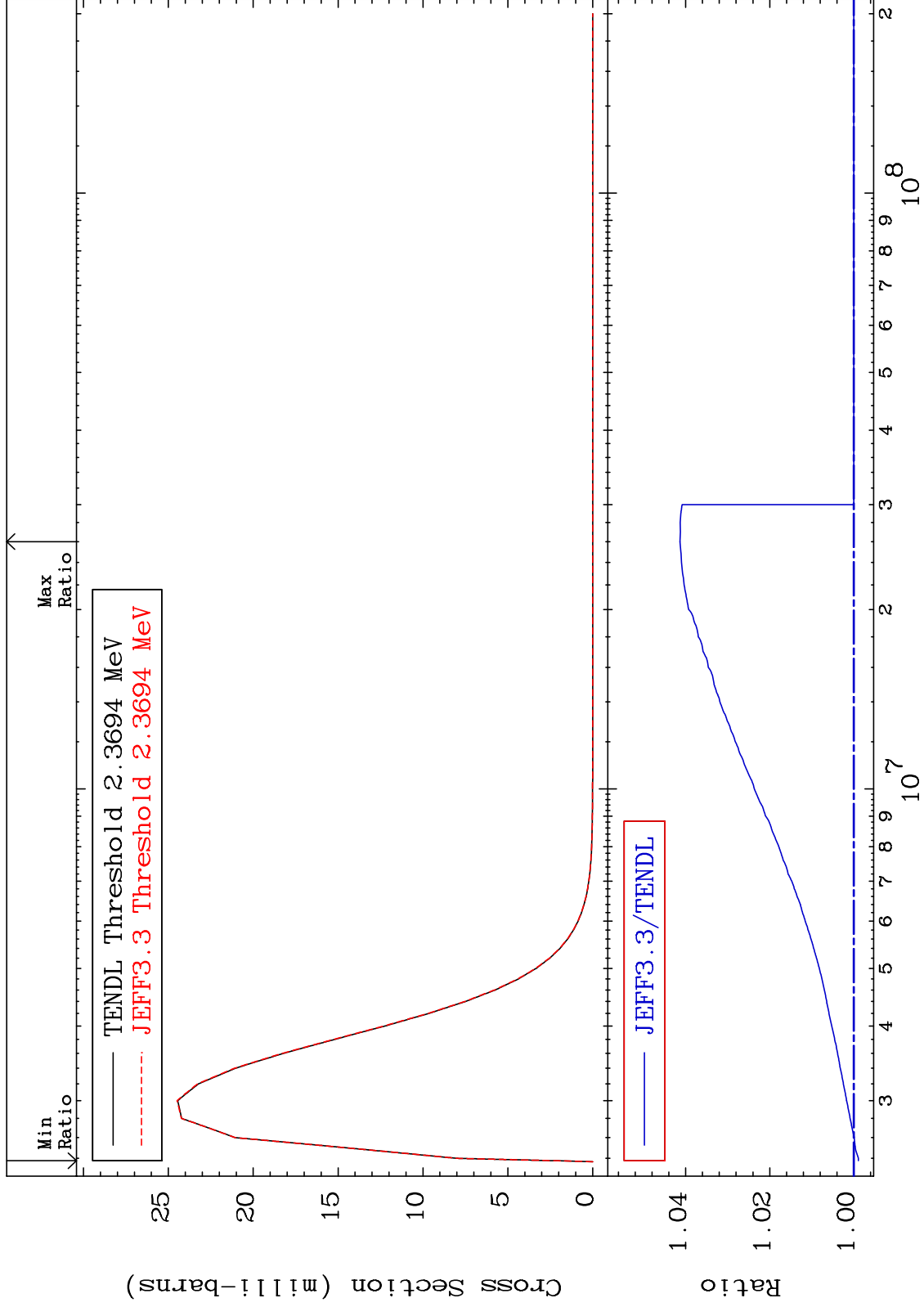
54-Xe-126
-0.064 To 0.515 %



MAT 5431

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

54-Xe-126
-0.110 To 4.135 %



48

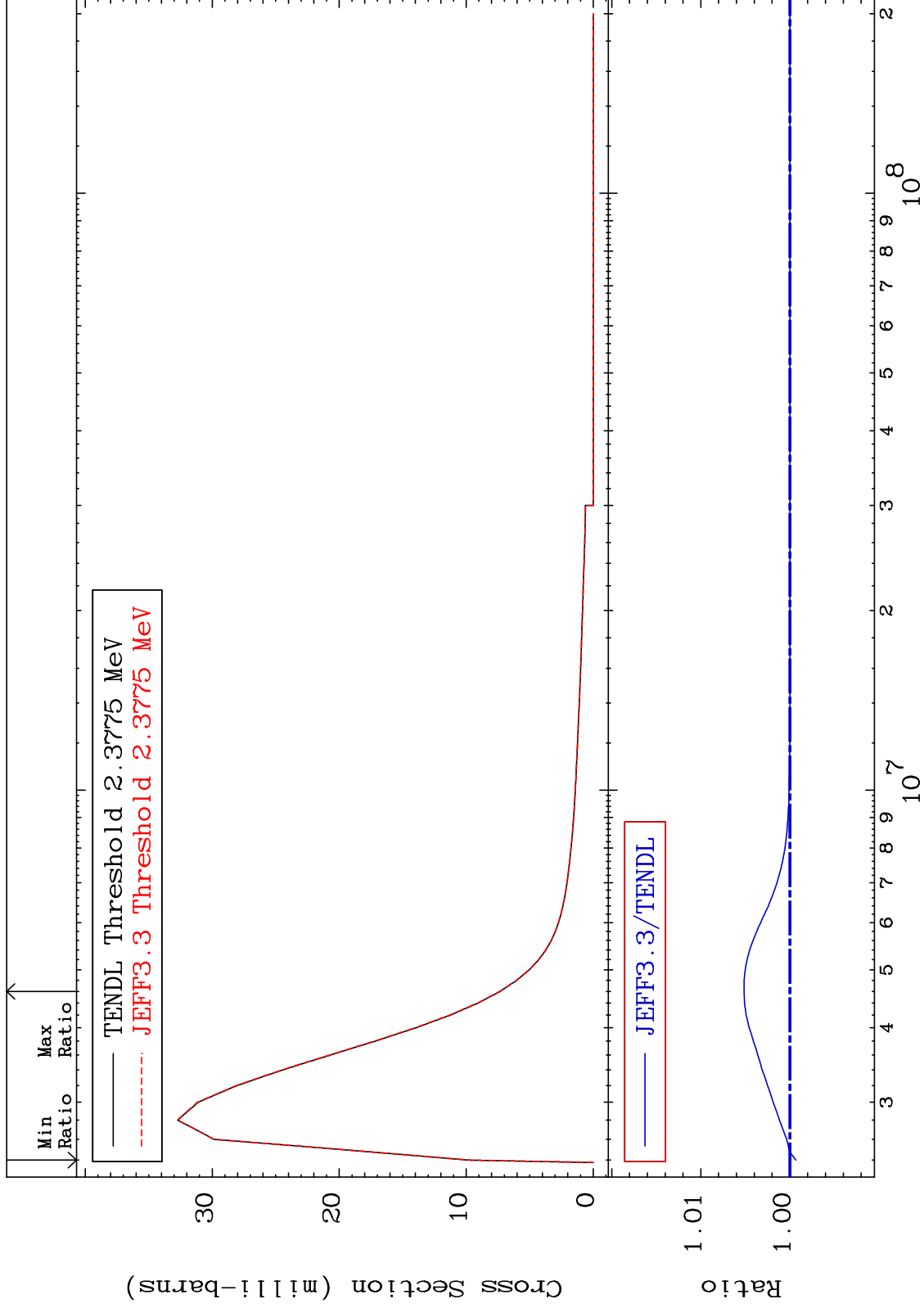
Incident Energy (eV)

54-Xe-126

MAT 5431

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

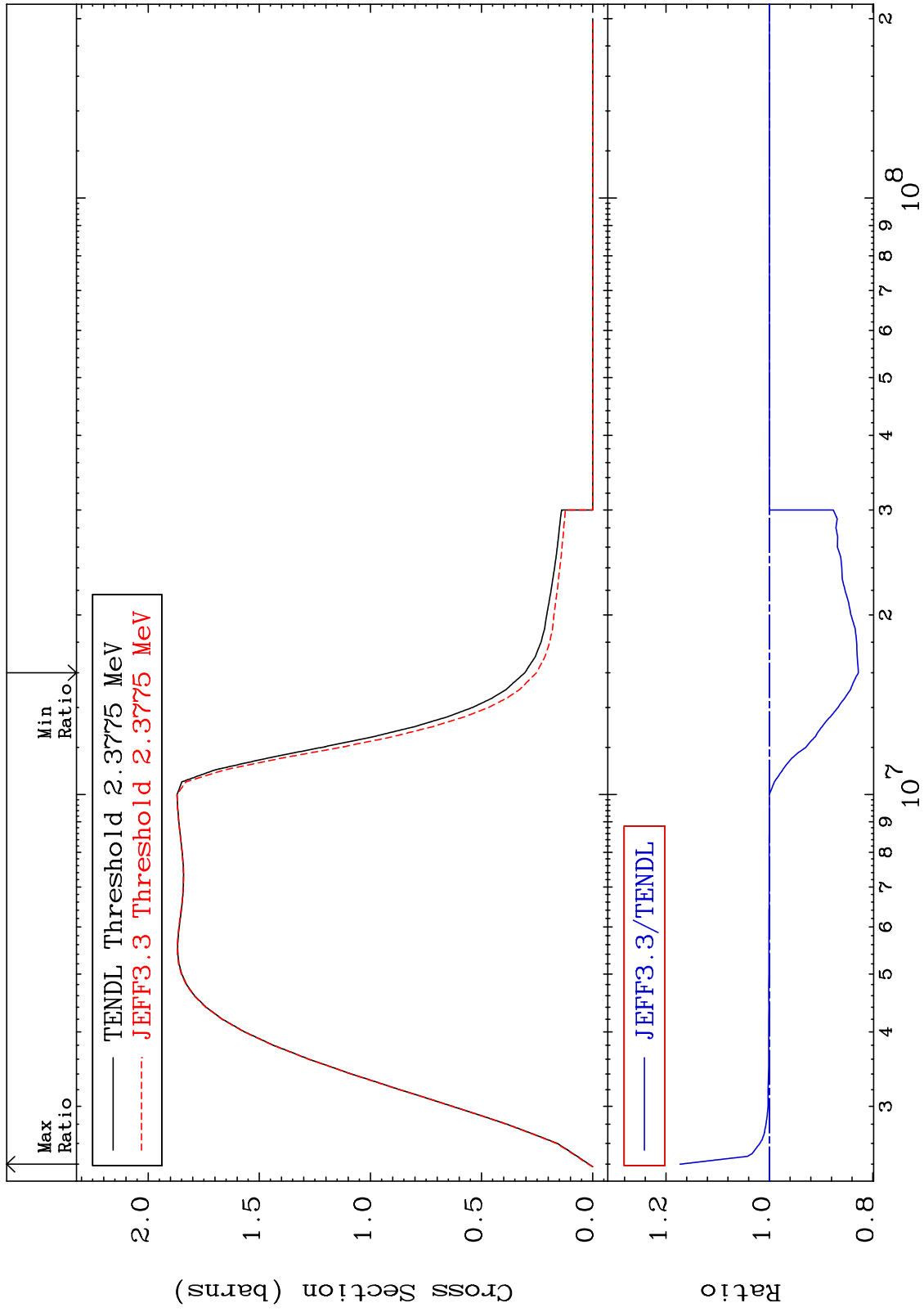
54-Xe-126
-0.066 To 0.515 %



MAT 5431

(n,n') Continuum
Cross Section

54-Xe-126
-17.21 To 17.28 %



50

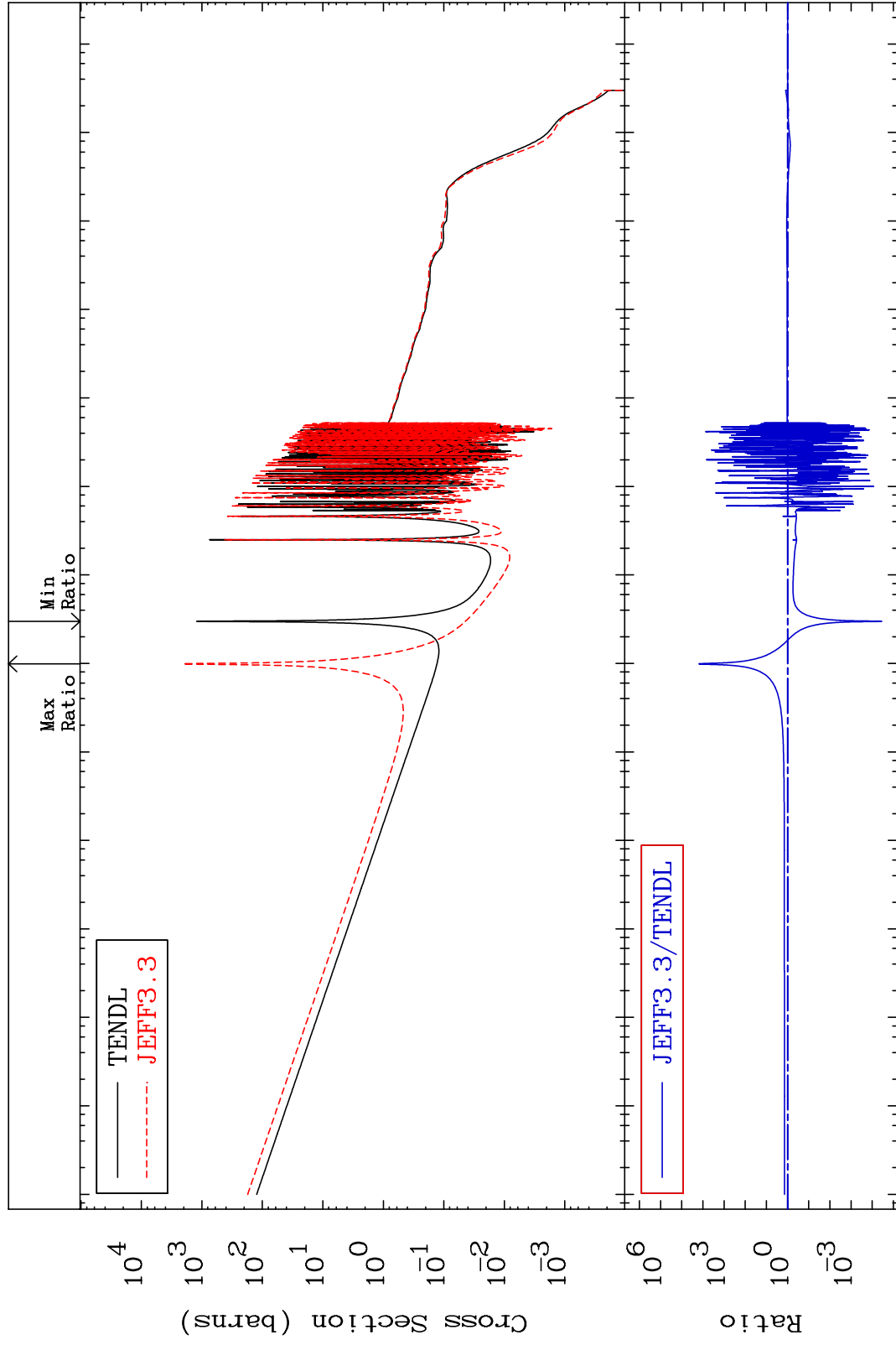
Incident Energy (eV)

54-Xe-126

MAT 5431

(n, γ)
Cross Section

54-Xe-126
-100.0 To 9999. %



51

Incident Energy (eV)

54-Xe-126

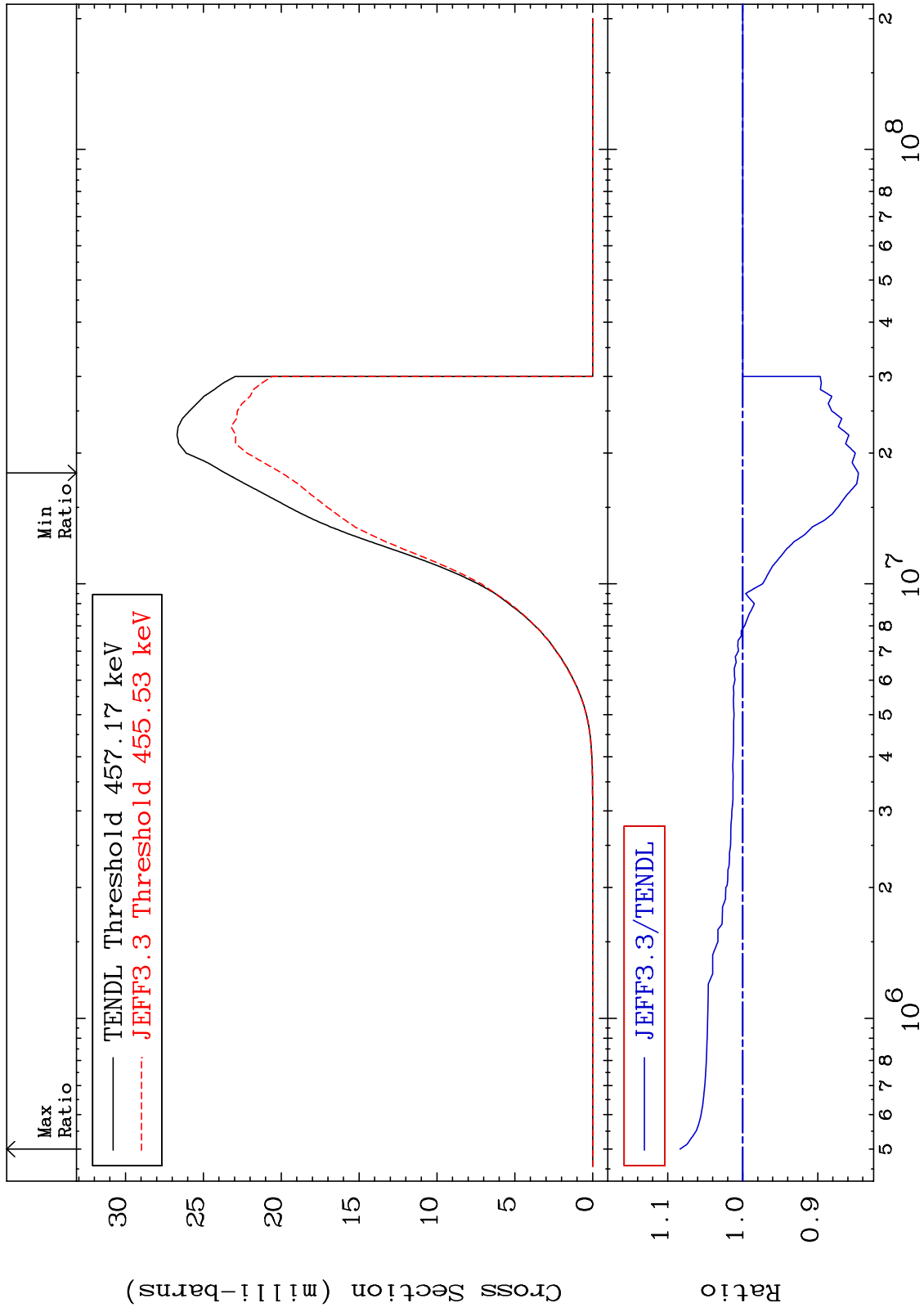
MAT 5431

(n,p)

54-Xe-126

Cross Section

-15.41 To 8.351 %



52

Incident Energy (eV)

54-Xe-126

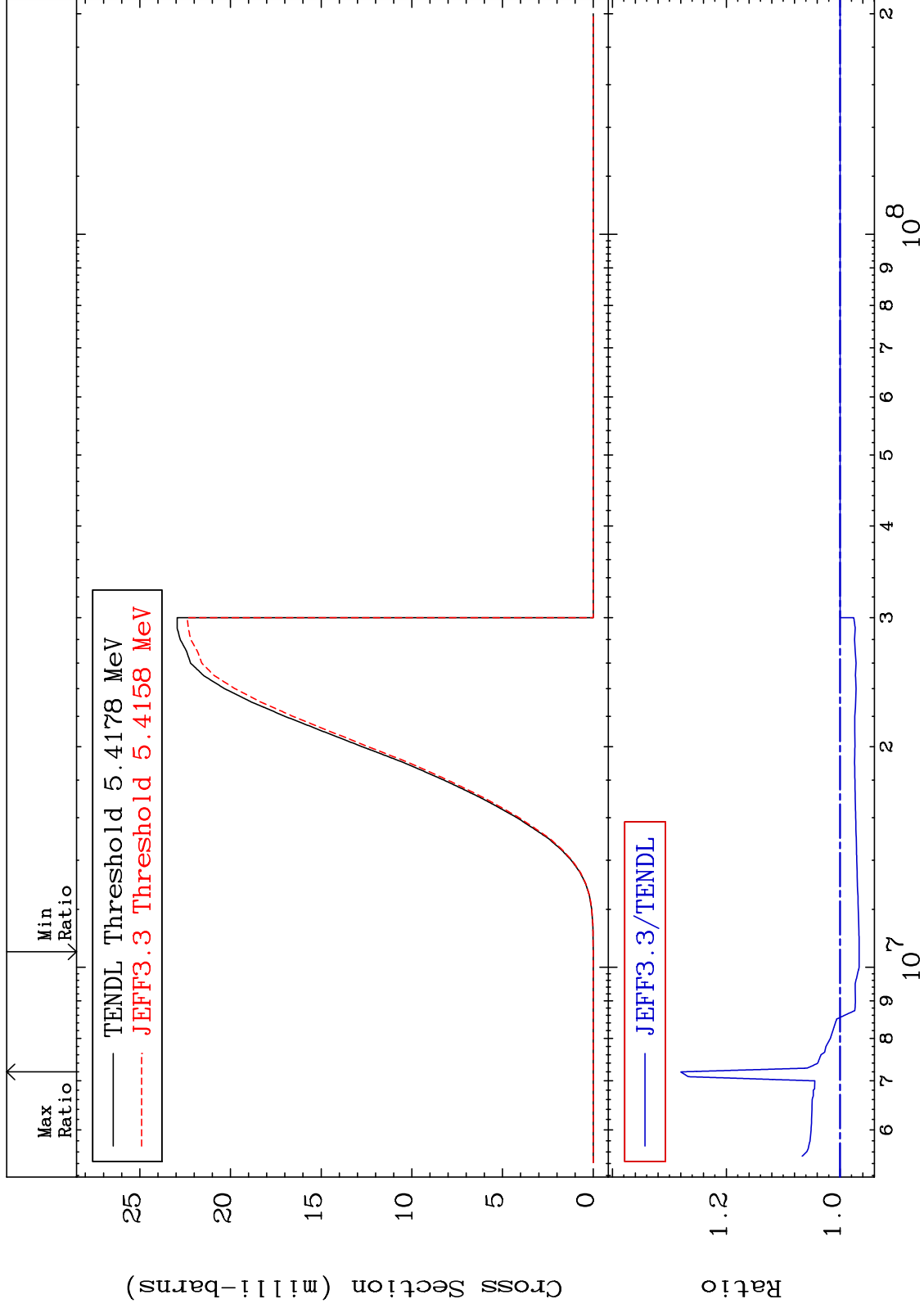
MAT 5431

(n, d)

54-Xe-126

Cross Section

-3.358 To 28.03 %



53

Incident Energy (eV)

54-Xe-126

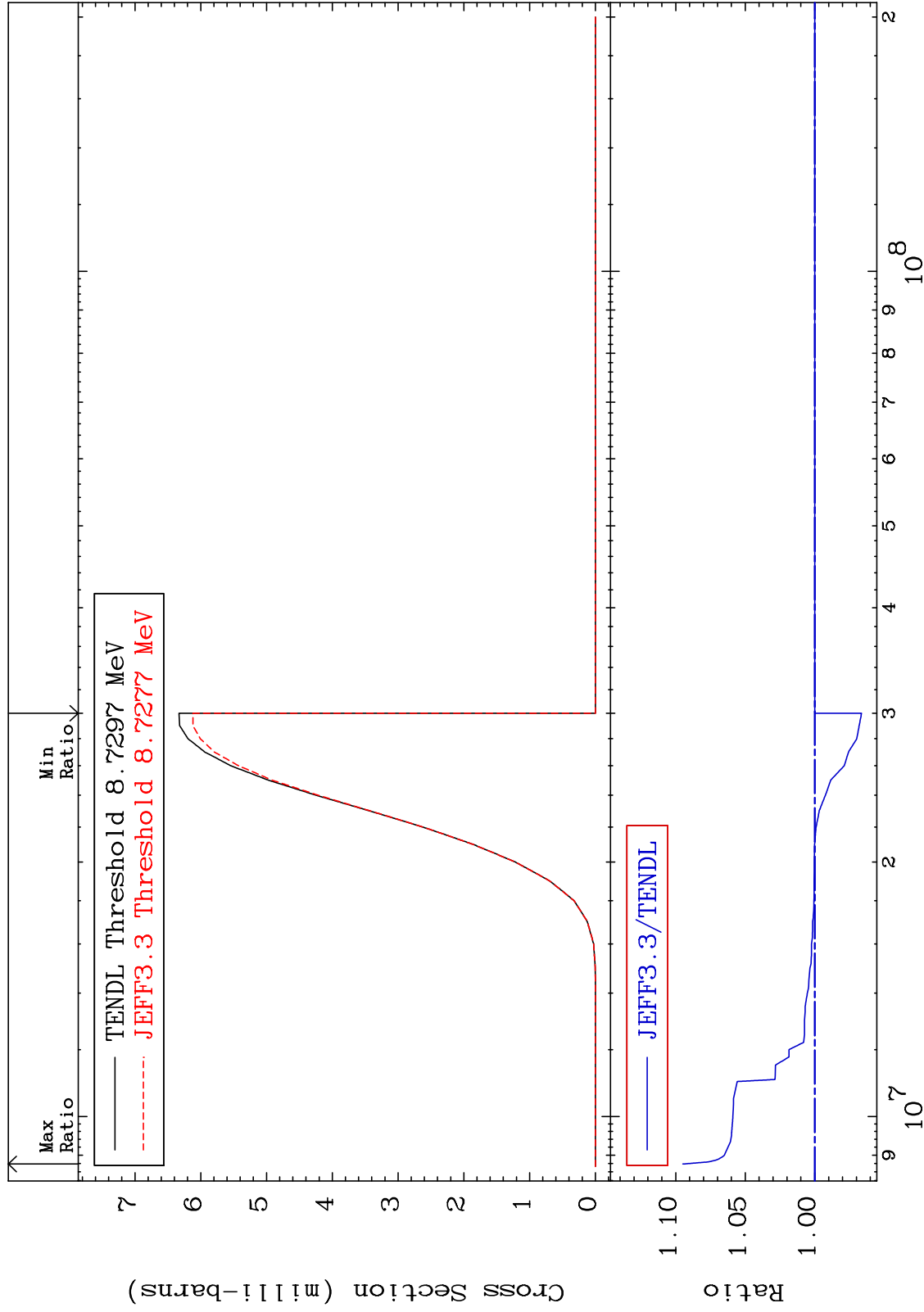
MAT 5431

(n, t)

54-Xe-126

Cross Section

-3.368 To 9.486 %



54

Incident Energy (eV)

54-Xe-126

MAT 5431

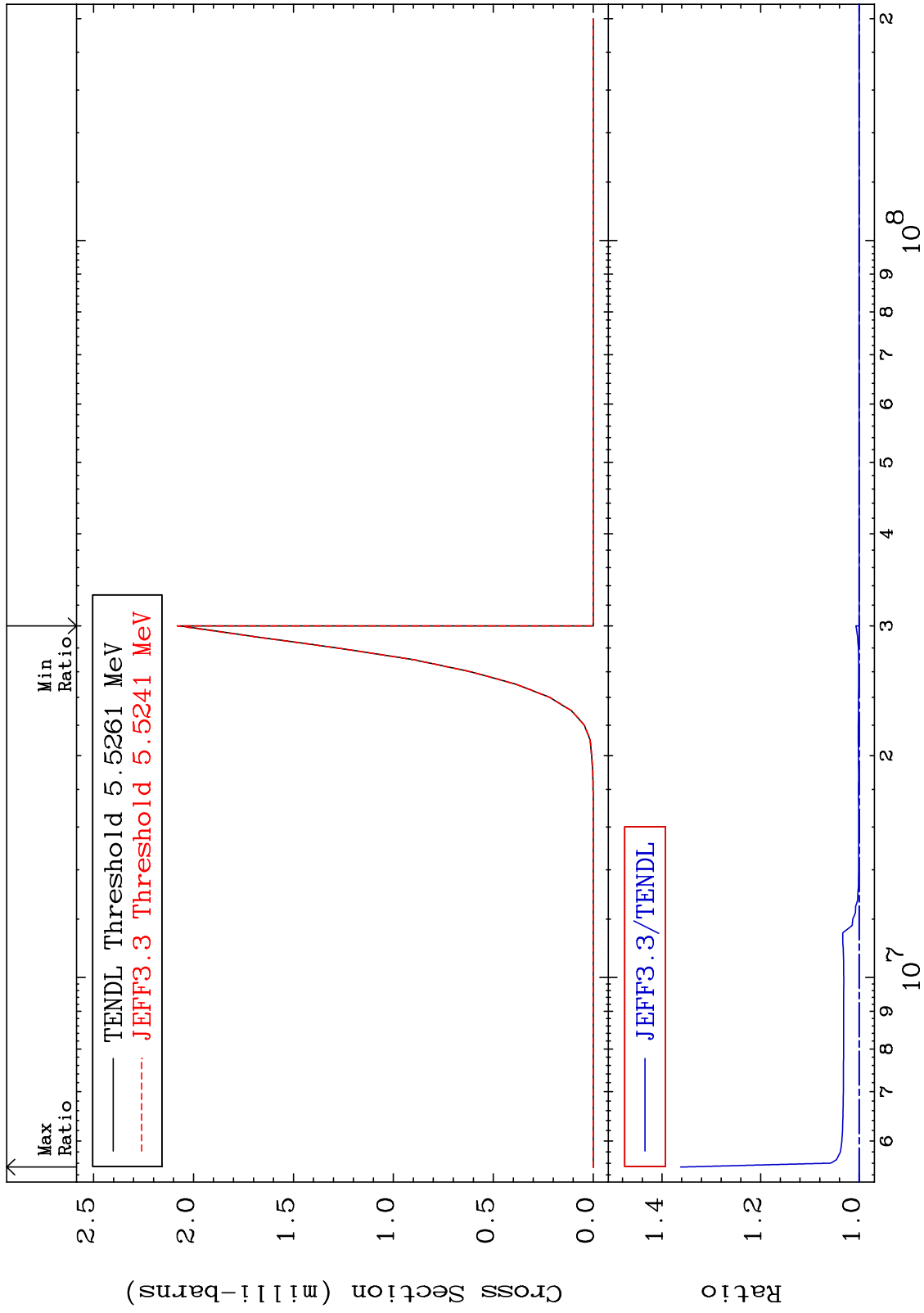
(n, He-3)

54-Xe-126

Cross Section

0.000

To 36.22 %



55

Incident Energy (eV)

54-Xe-126

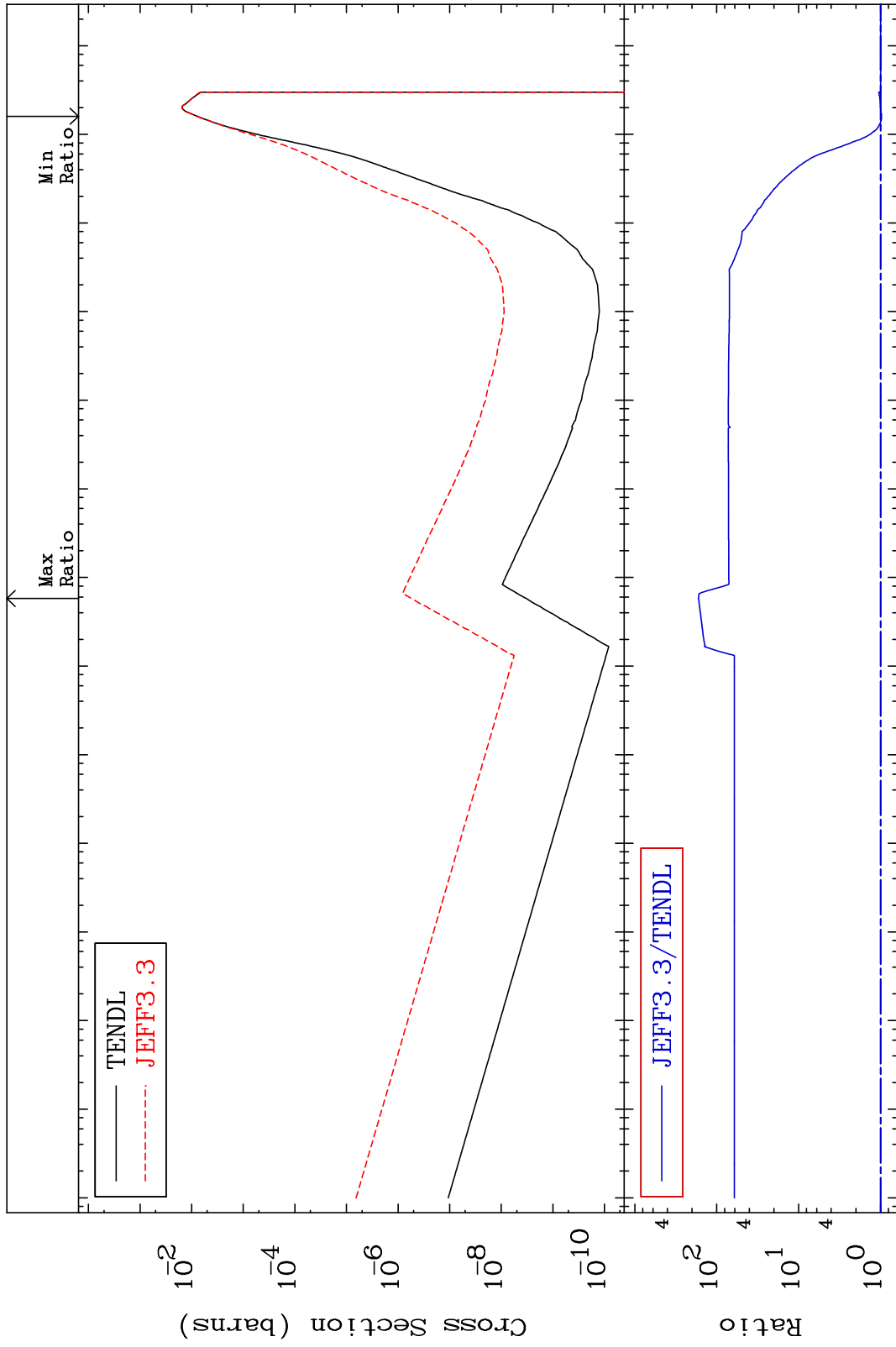
MAT 5431

(n, α)

54-Xe-126

Cross Section

-2.871 To 9999. %



Incident Energy (eV)

56

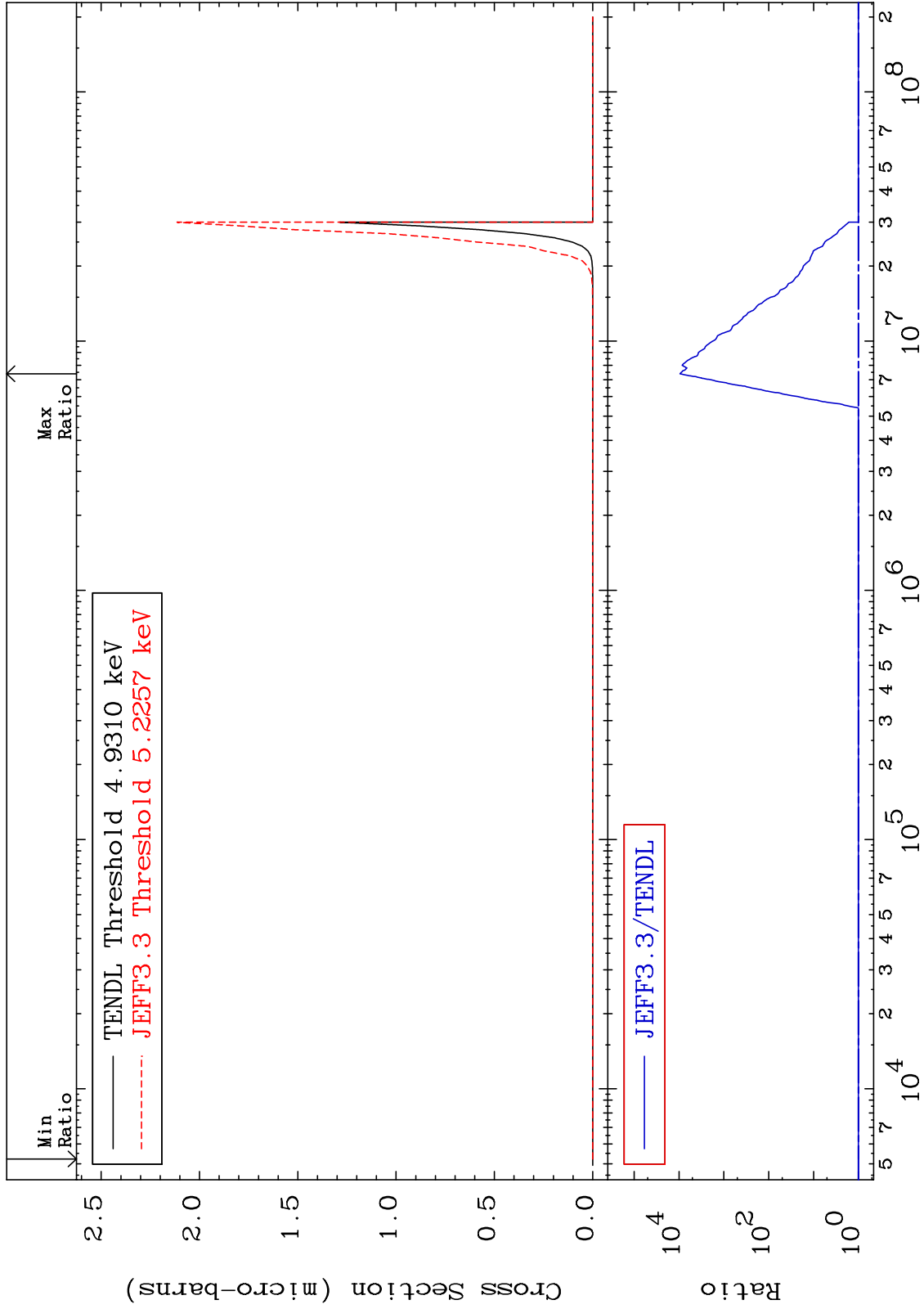
54-Xe-126

MAT 5431

(n, 2α)

54-Xe-126

Cross Section To 9999. %



57

Incident Energy (eV)

54-Xe-126

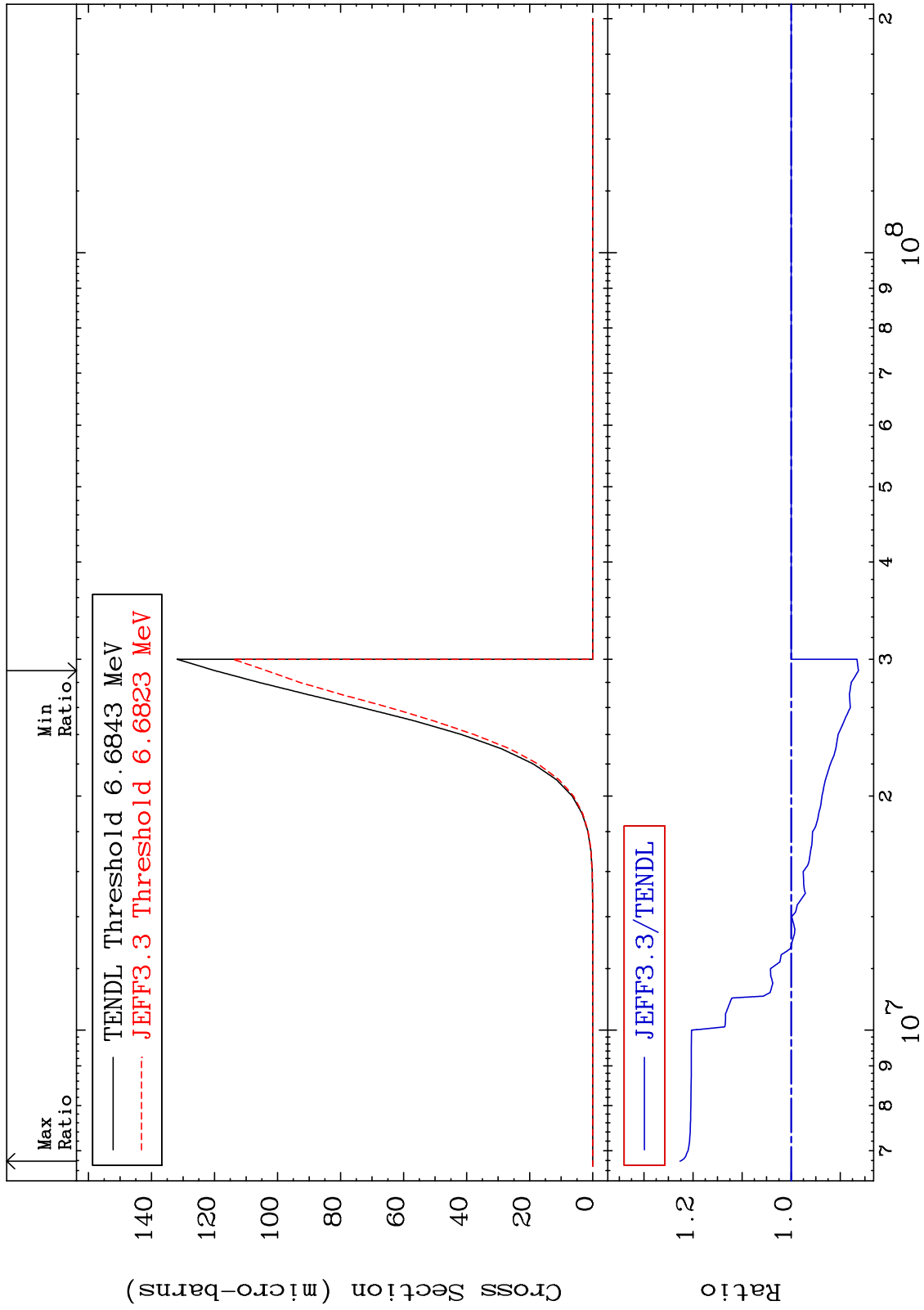
MAT 5431

(n,2p)

54-Xe-126

Cross Section

-13.69 To 22.64 %



58

Incident Energy (eV)

54-Xe-126

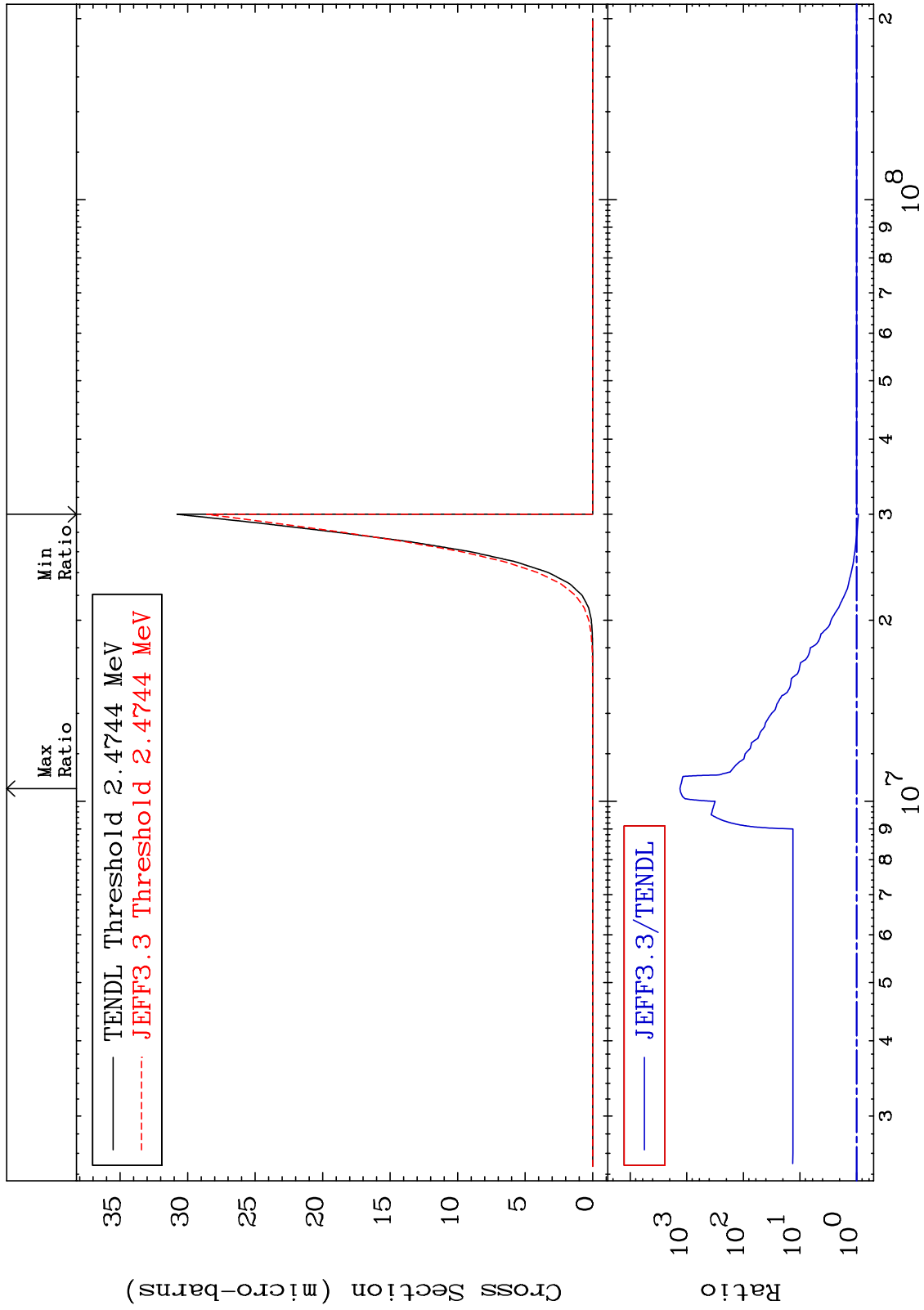
MAT 5431

(n,p) α

54-Xe-126

-7.141 To 9999. %

Cross Section



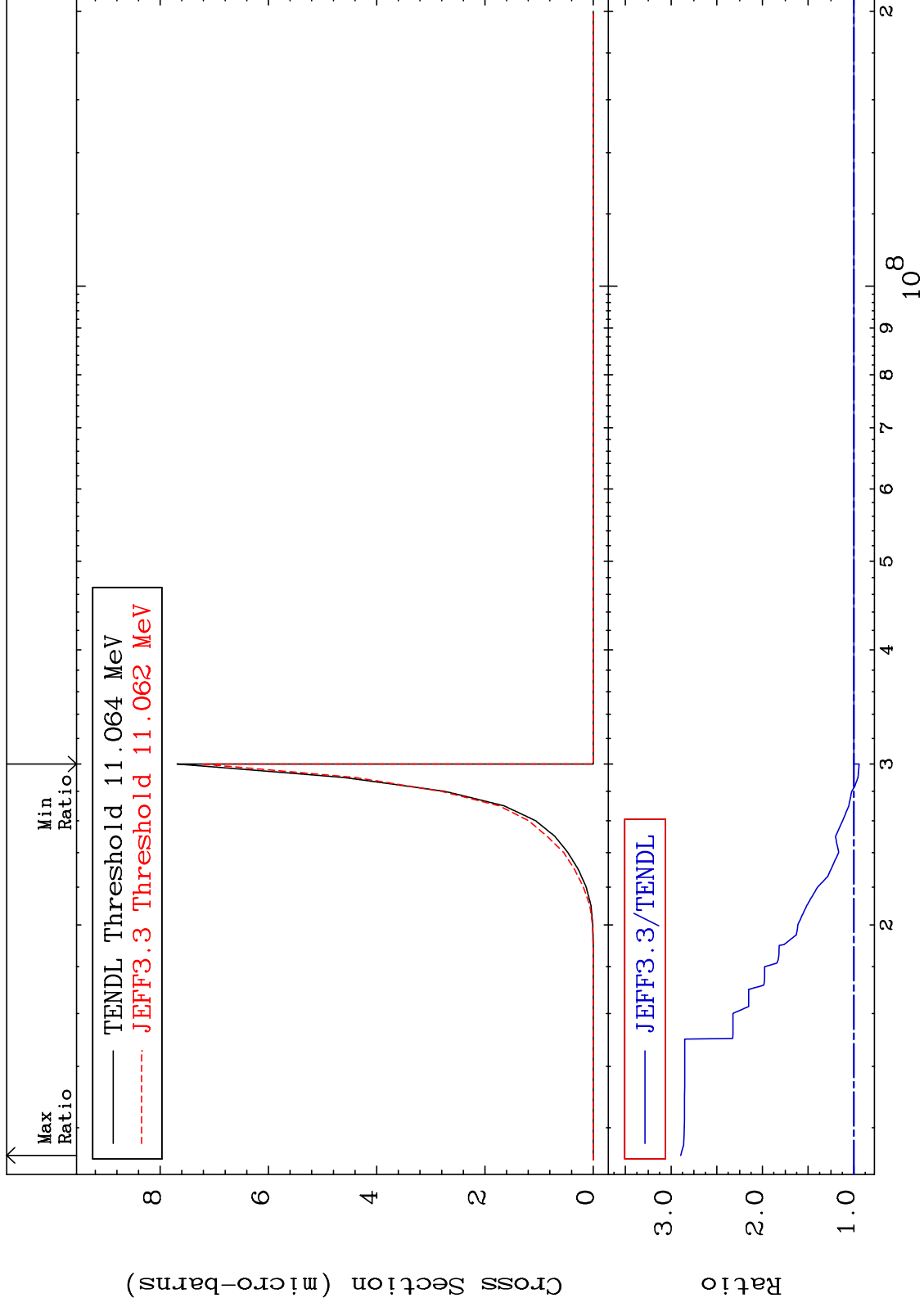
MAT 5431

(n,p) d

54-Xe-126

Cross Section

-5.871 To 189.6 %



60

Incident Energy (eV)

54-Xe-126

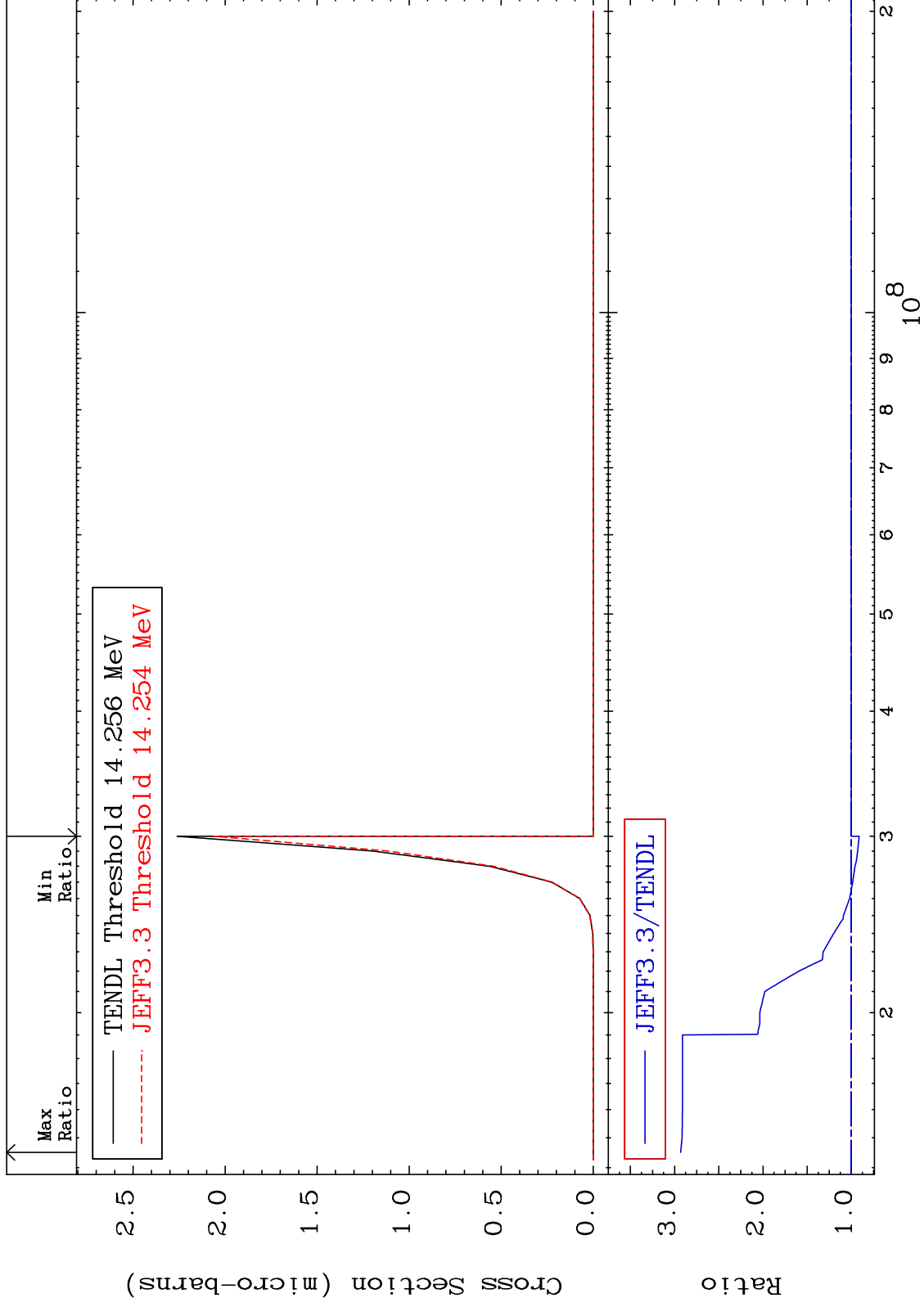
MAT 5431

(n,p) t

54-Xe-126

Cross Section

-8.837 To 193.2 %



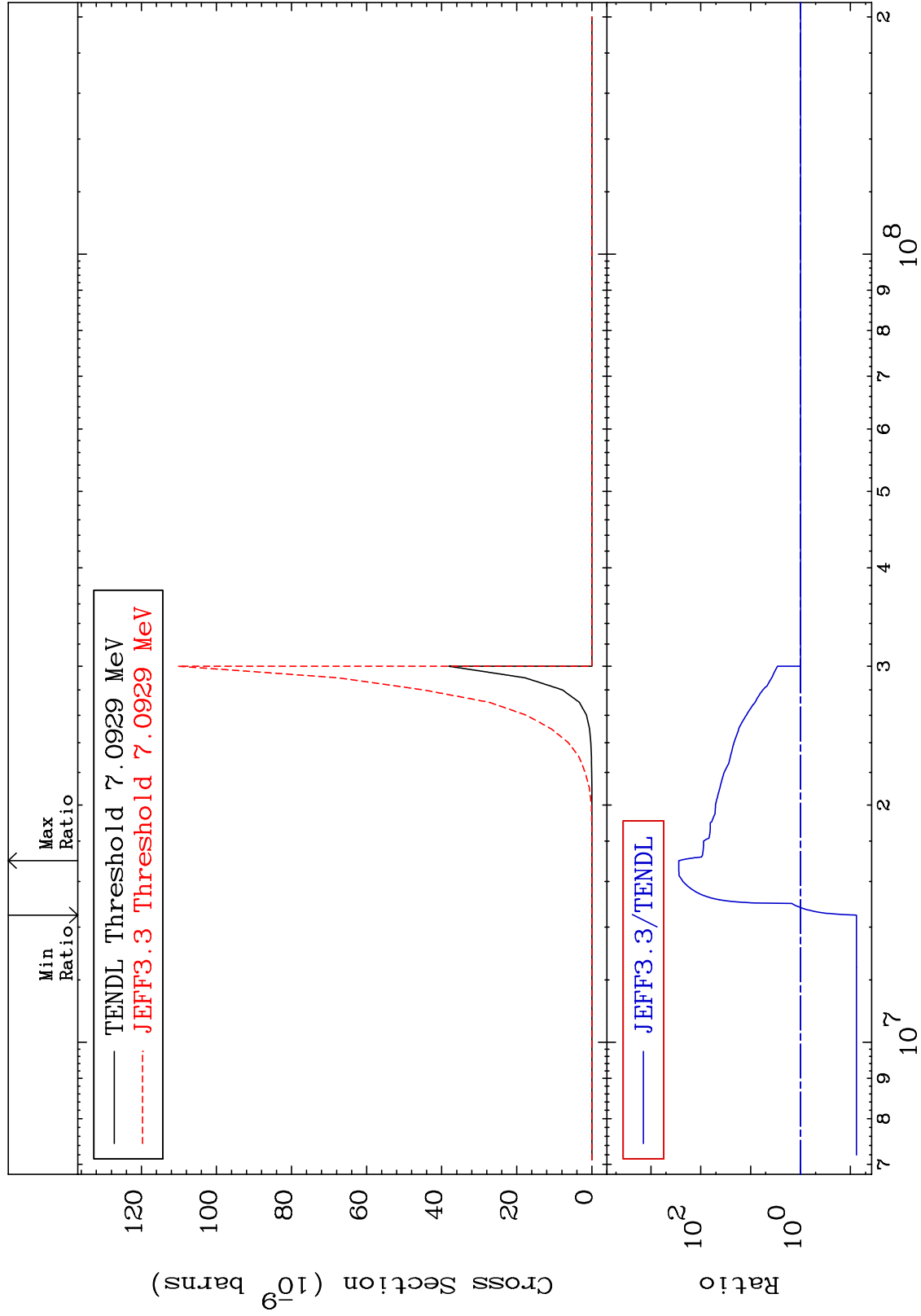
MAT 5431

(n,d) α

54-Xe-126

Cross Section

-92.43 To 9999. %



62

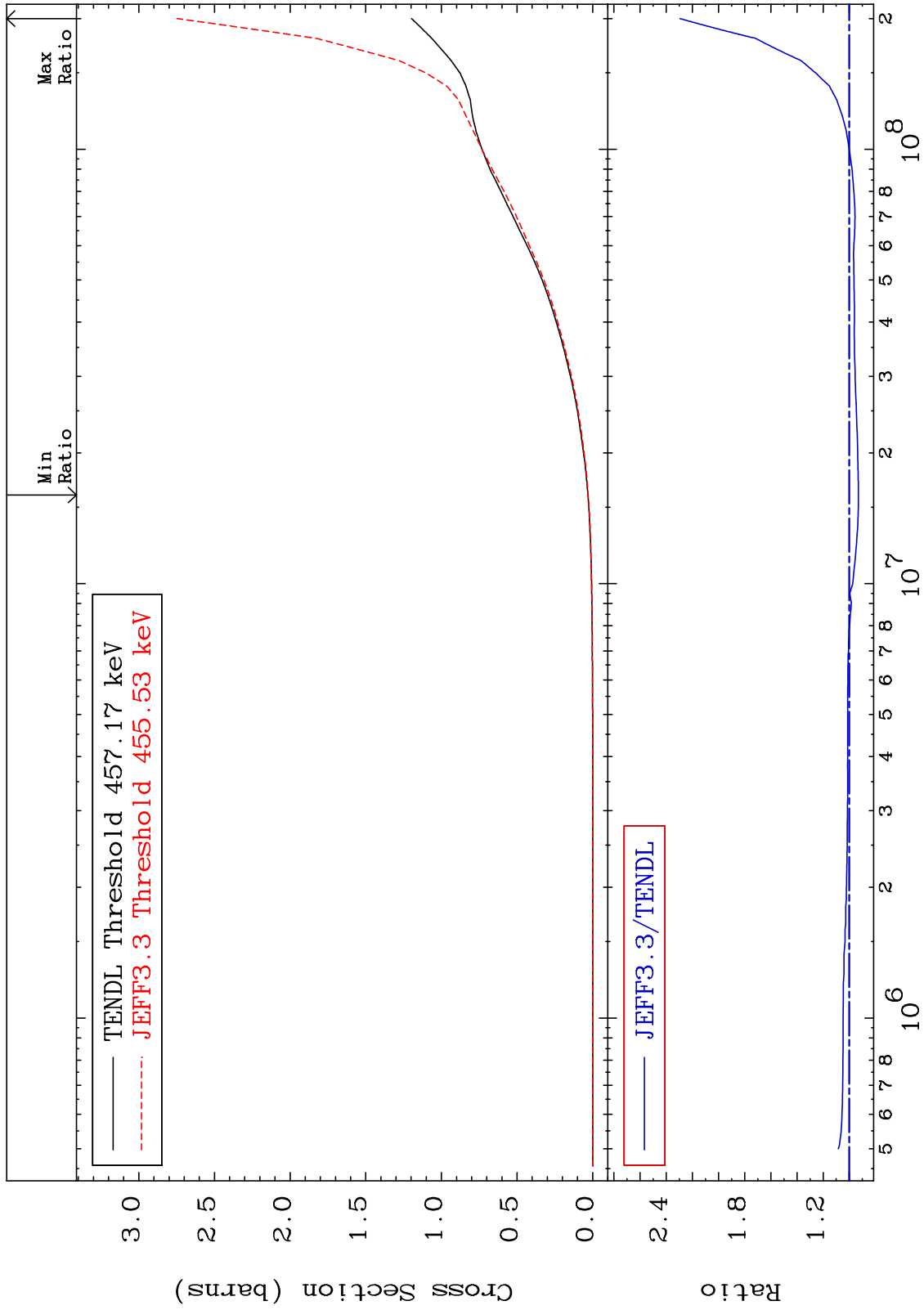
Incident Energy (eV)

54-Xe-126

MAT 5431

Hydrogen Production
Cross Section

54-Xe-126
-6.971 To 129.5 %



63

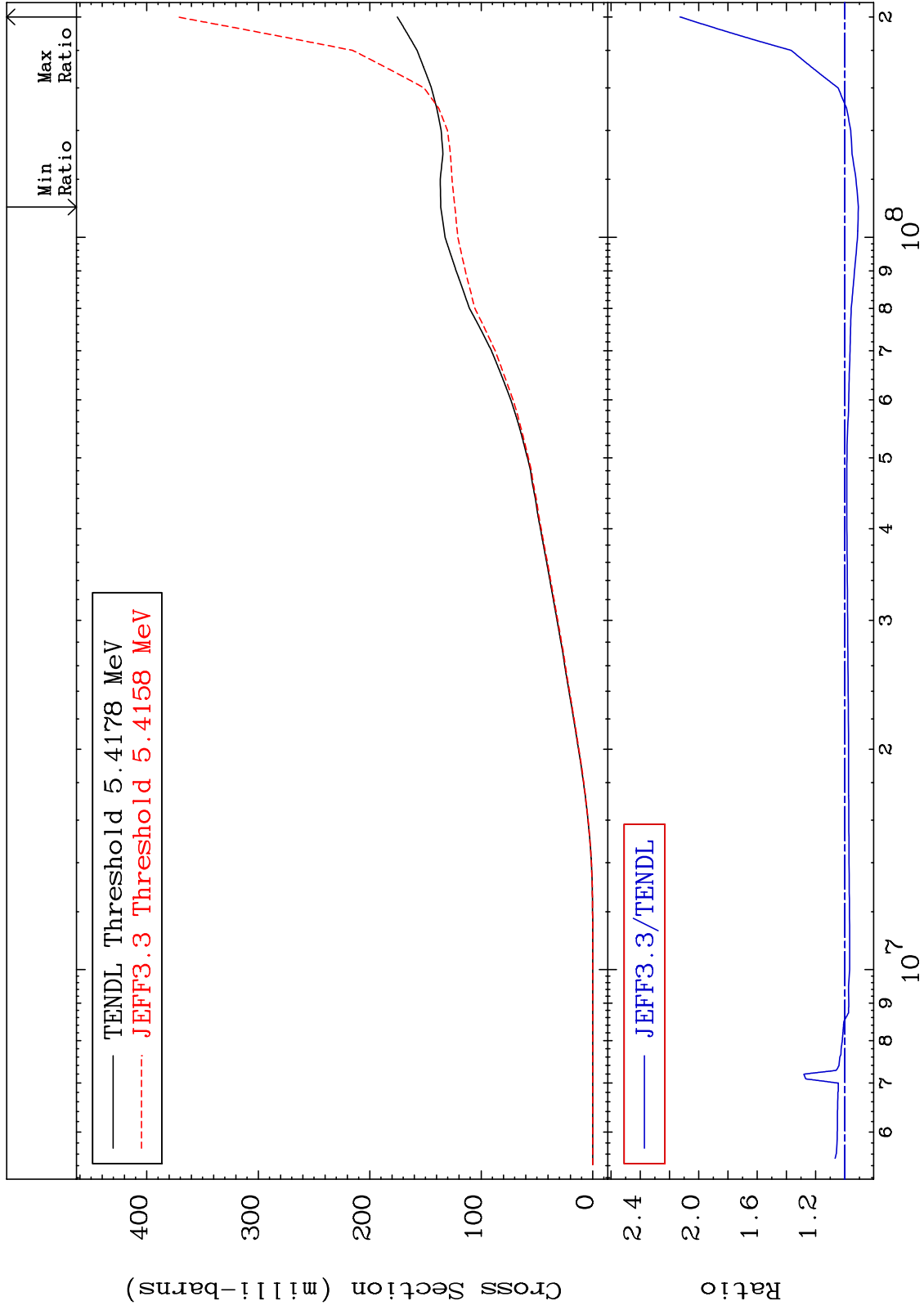
Incident Energy (eV)

54-Xe-126

MAT 5431

Deuterium Production
Cross Section

54-Xe-126
-9.338 To 112.7 %



64

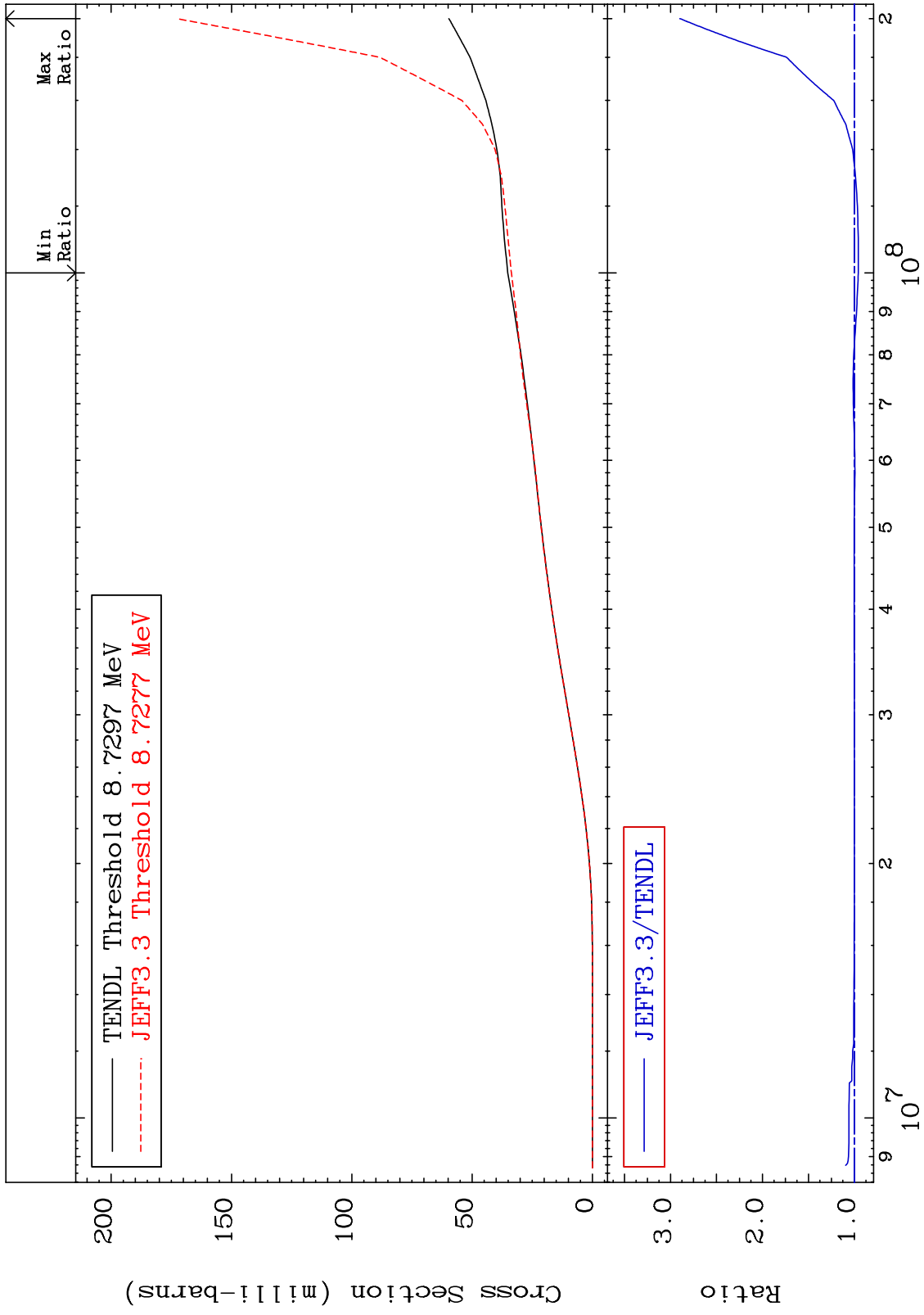
Incident Energy (eV)

54-Xe-126

MAT 5431

Tritium Production
Cross Section

54-Xe-126
-4.297 To 189.9 %



65

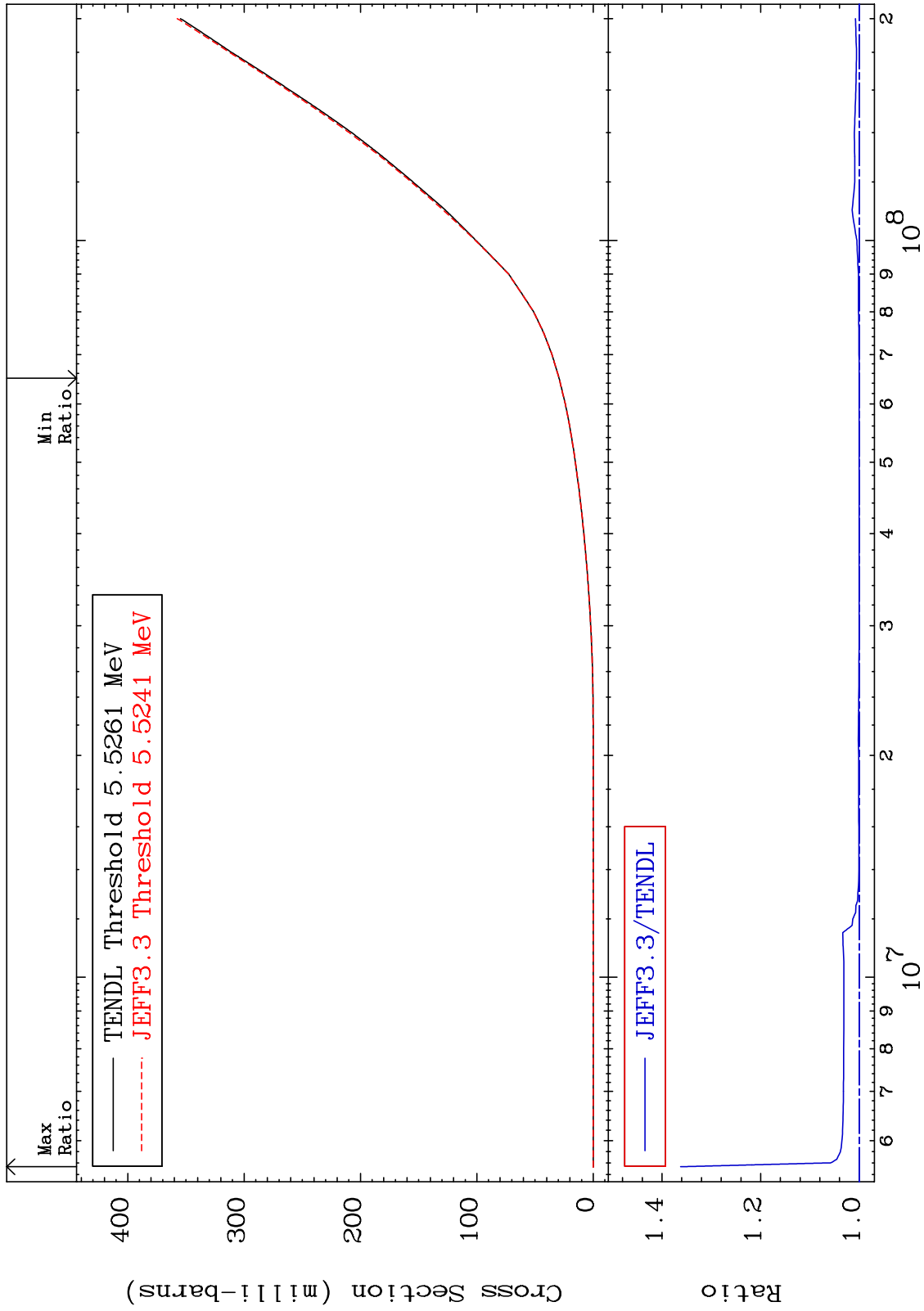
Incident Energy (eV)

54-Xe-126

MAT 5431

He-3 Production
Cross Section

54-Xe-126
0.026 To 36.22 %



66

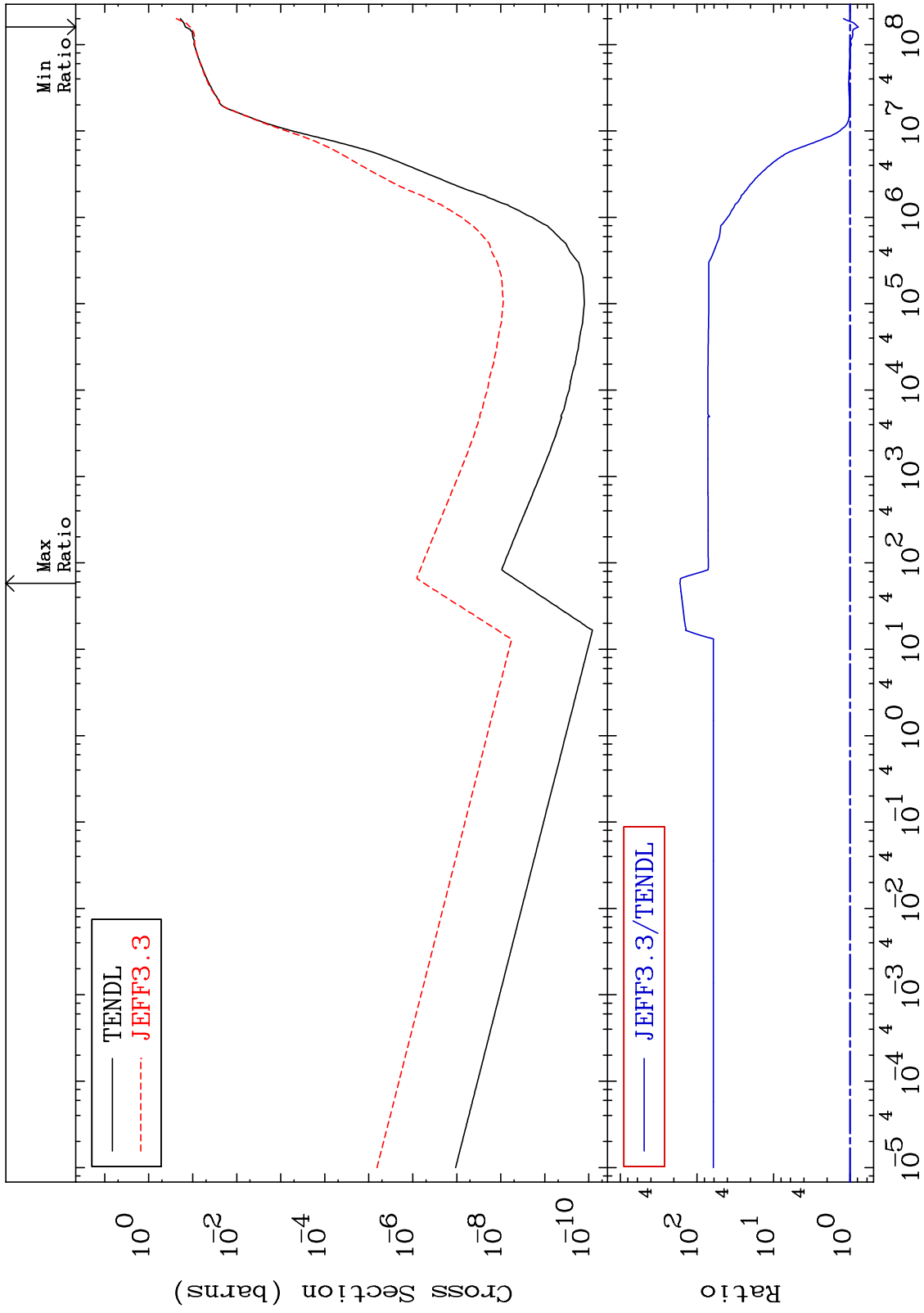
Incident Energy (eV)

54-Xe-126

MAT 5431

He-4 Production
Cross Section

54-Xe-126
-22.03 To 9999. %



67

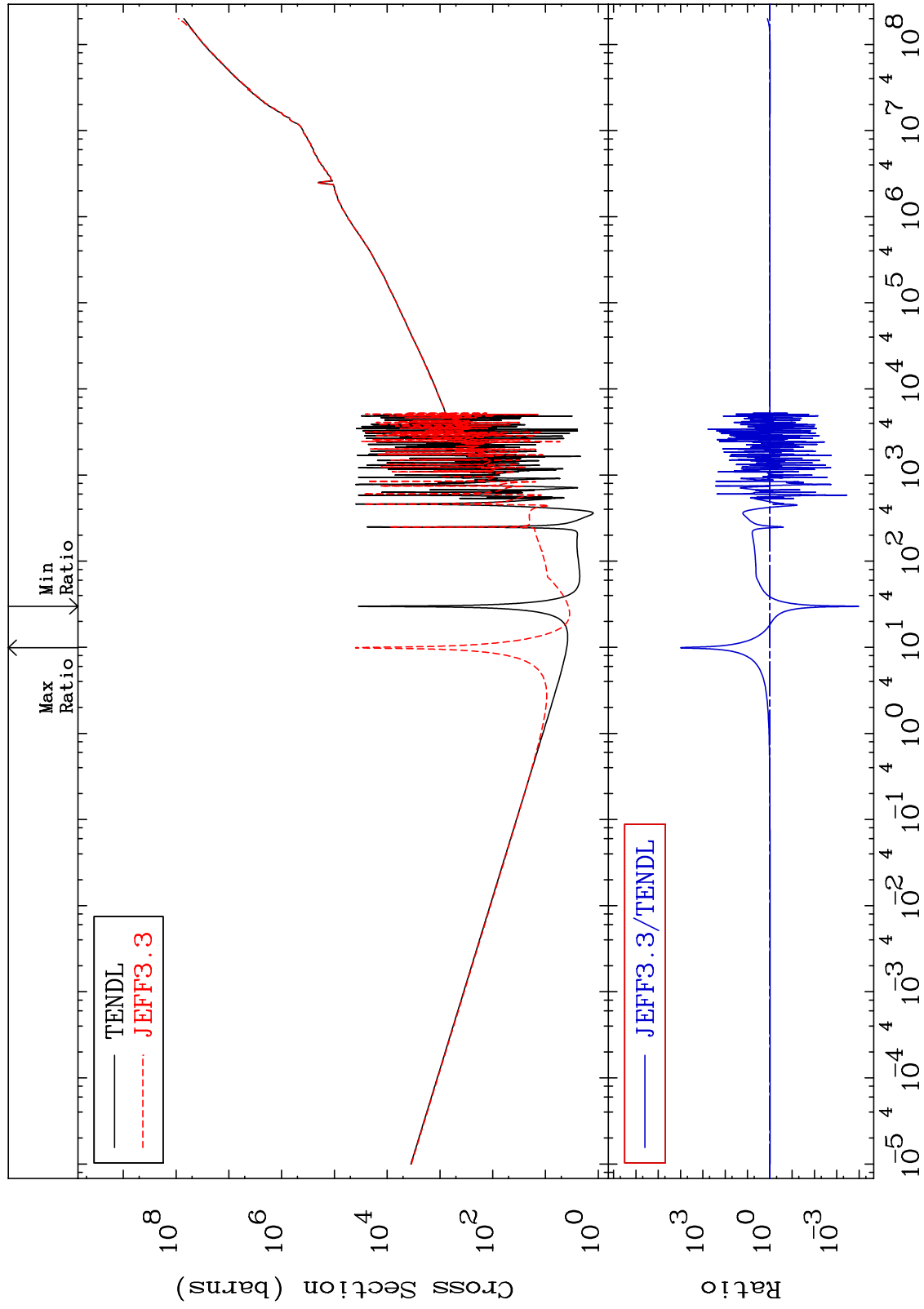
Incident Energy (eV)

54-Xe-126

MAT 5431

Kerma total (eV-barns)
Cross Section

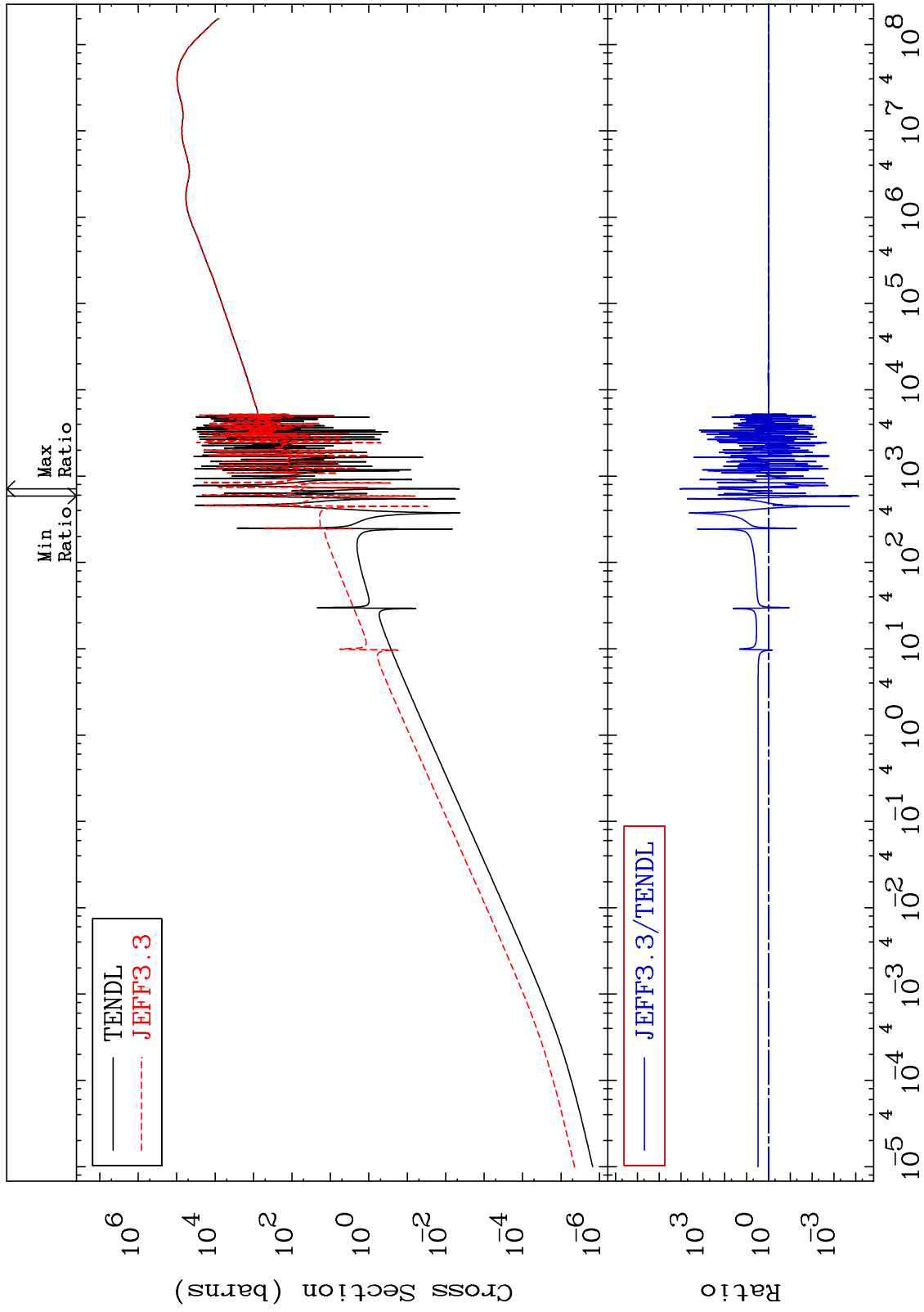
54-Xe-126
-99.99 To 9999. %



MAT 5431

Kerma elastic
Cross Section

54-Xe-126
-99.99 To 9999. %



69

Incident Energy (eV)

54-Xe-126

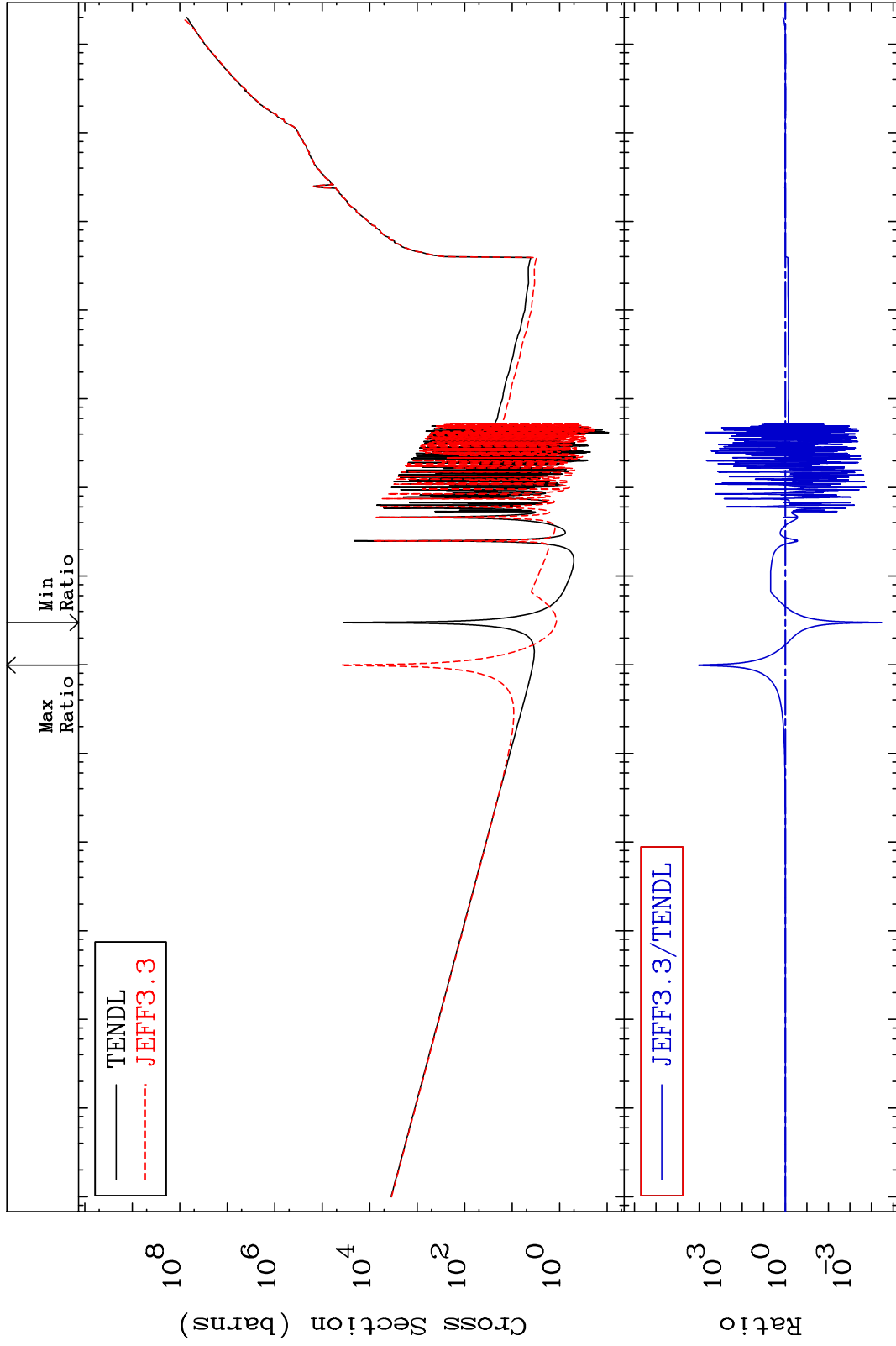
MAT 5431

Kerma non-elastic (all but mt2)

54-Xe-126

-100.0 To 9999. %

Cross Section



70

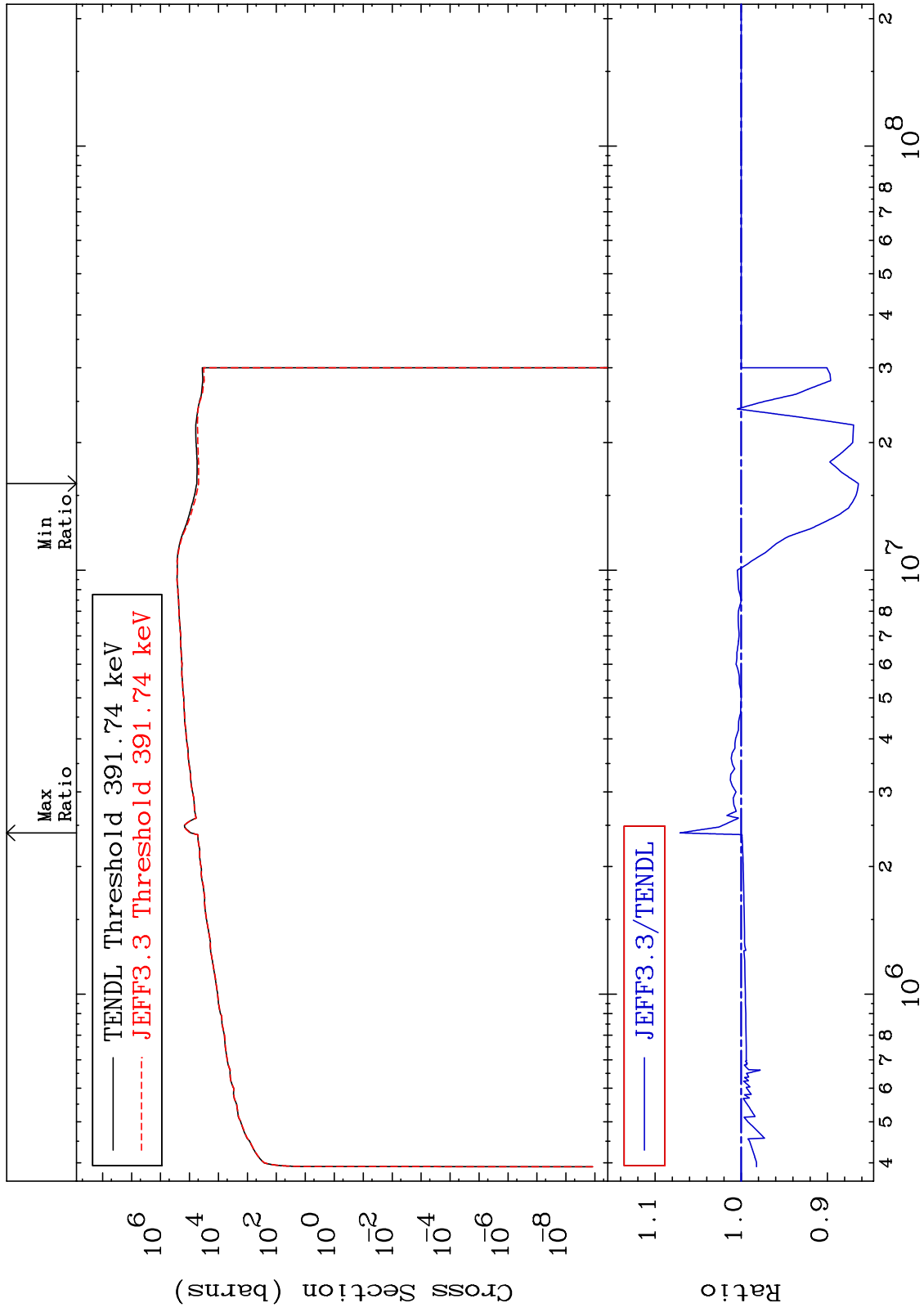
Incident Energy (eV)

54-Xe-126

MAT 5431

Kerma inelastic (mt51-91)
Cross Section

54-Xe-126
-13.60 To 7.097 %



71

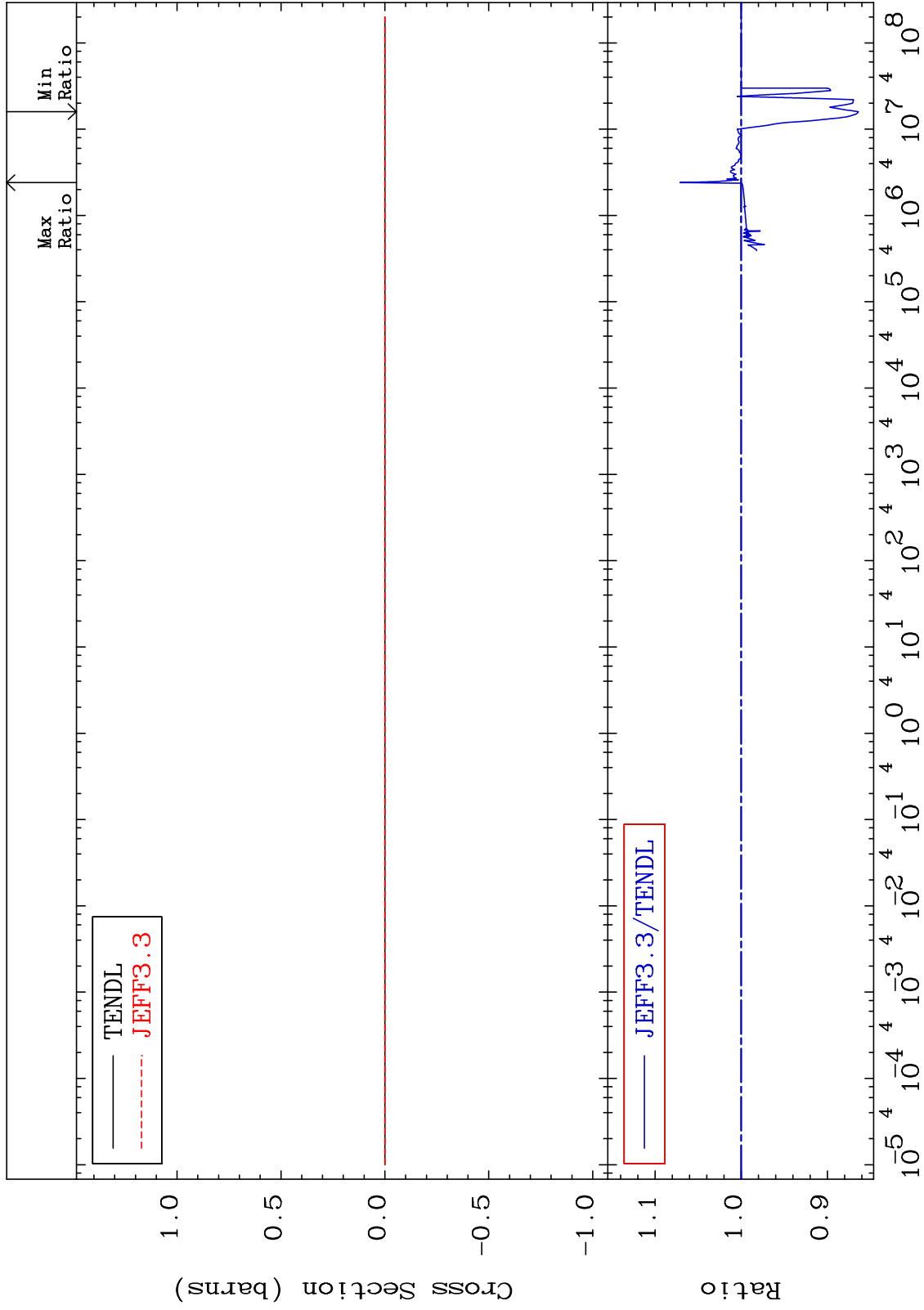
54-Xe-126

54-Xe-126

MAT 5431

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

54-Xe-126
-13.60 To 7.097 %



72

Incident Energy (eV)

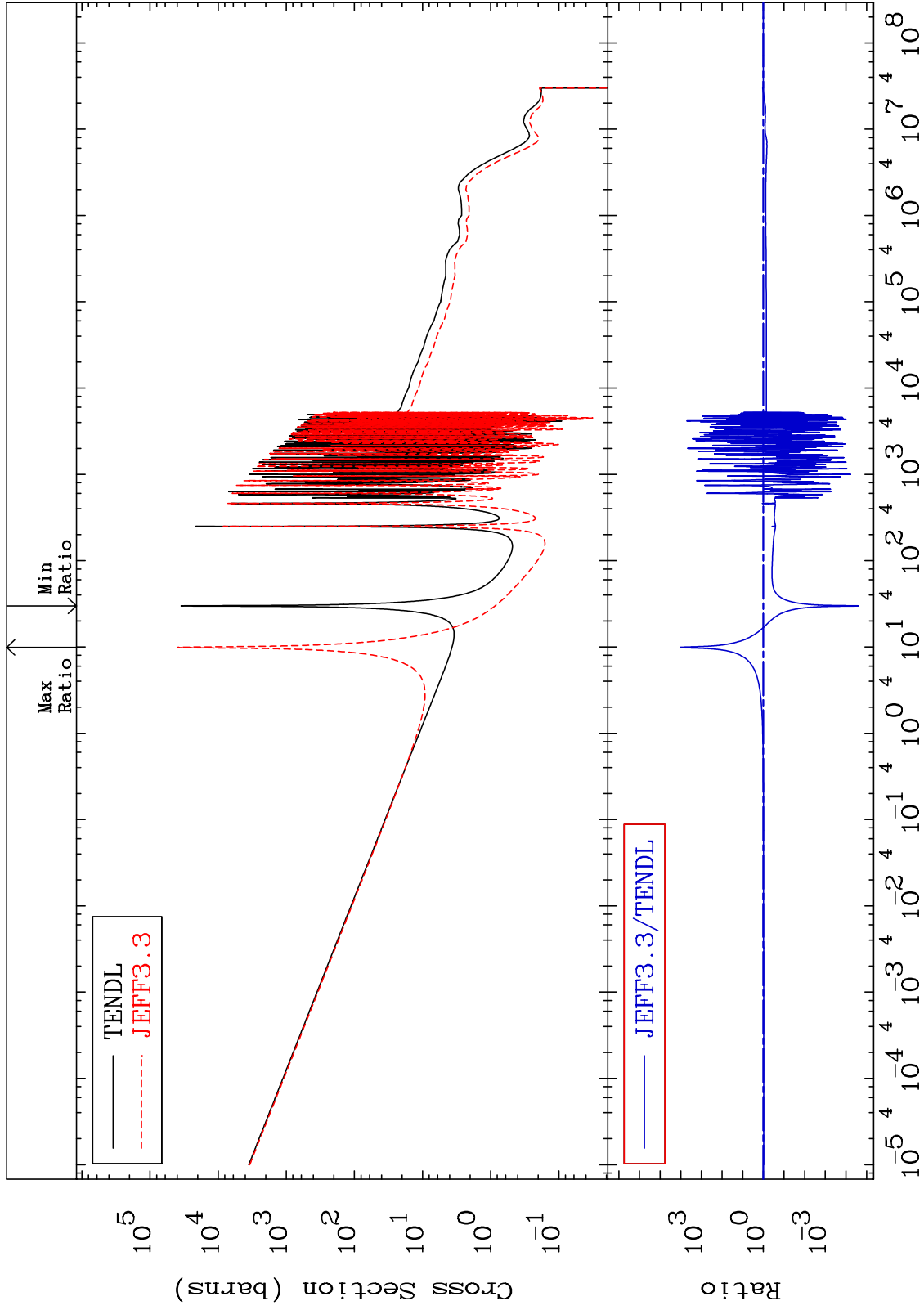
54-Xe-126

MAT 5431

Kerma capture (mt102)

54-Xe-126

-100.0 To 9999. %



73

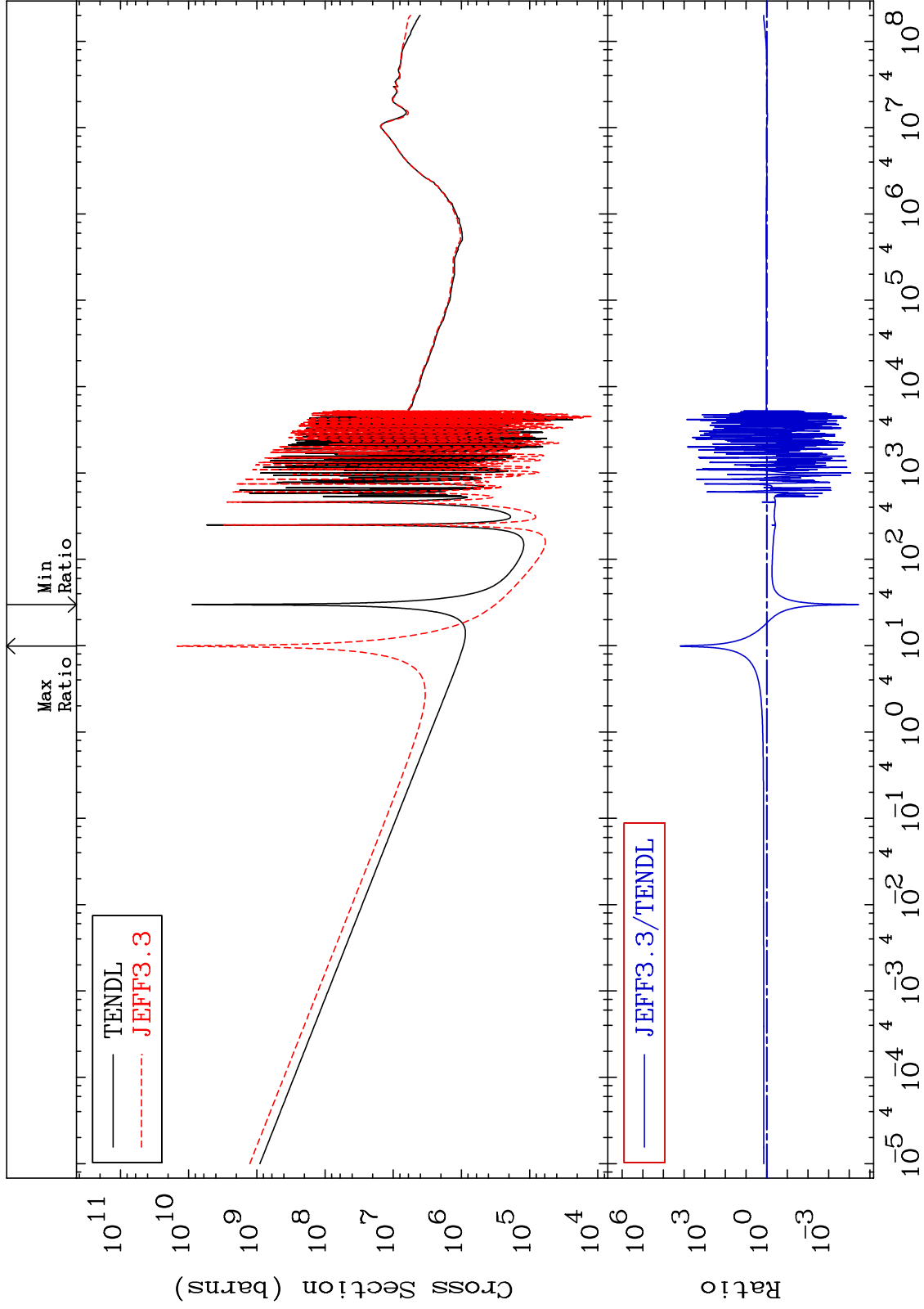
Incident Energy (eV)

54-Xe-126

MAT 5431

Total photon (eV-barns)
Cross Section

54-Xe-126
-100.0 To 9999. %



74

Incident Energy (eV)

54-Xe-126

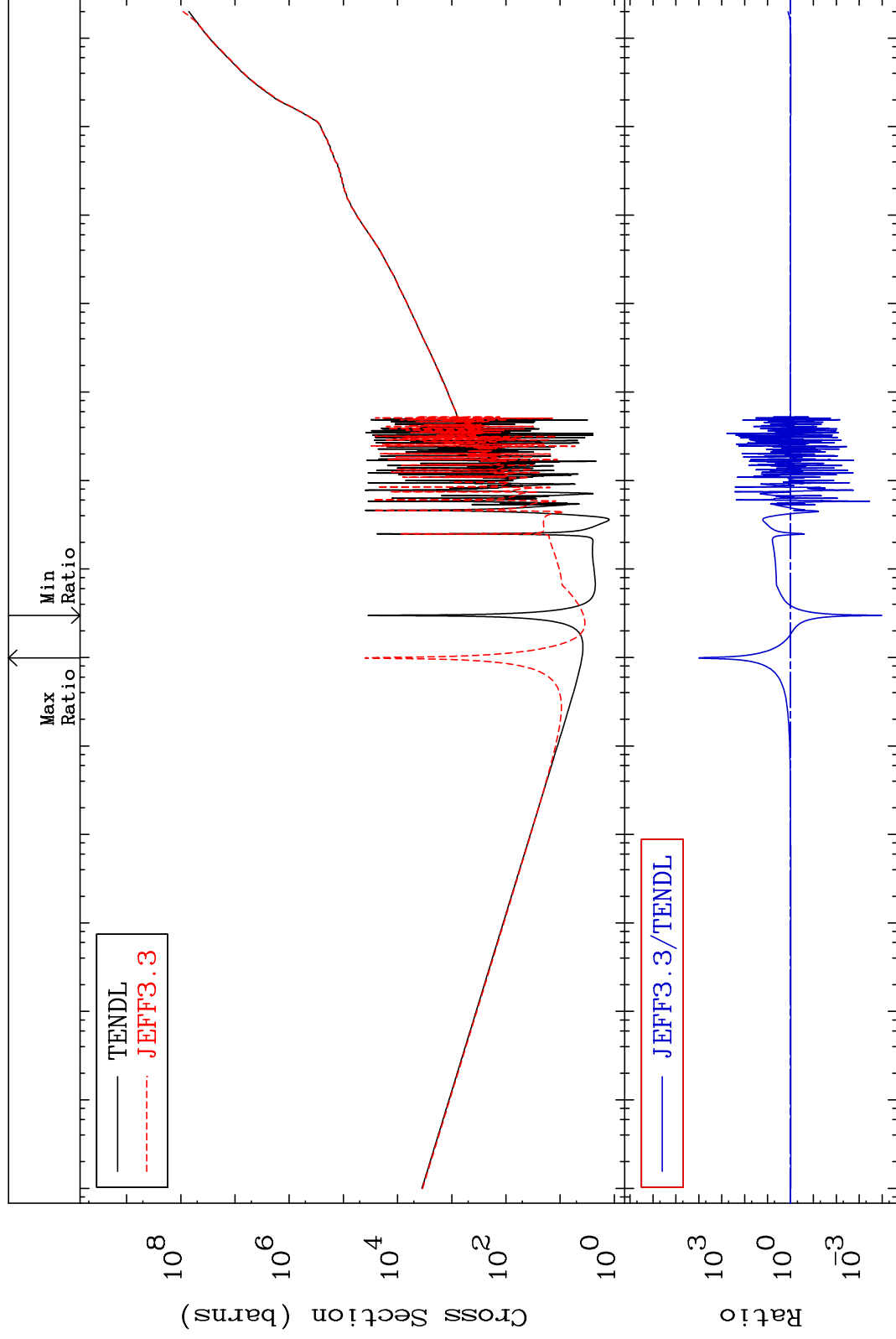
MAT 5431

Total kinematic kerma (high limit)

54-Xe-126

-99.99 To 9999. %

Cross Section



75

Incident Energy (eV)

54-Xe-126

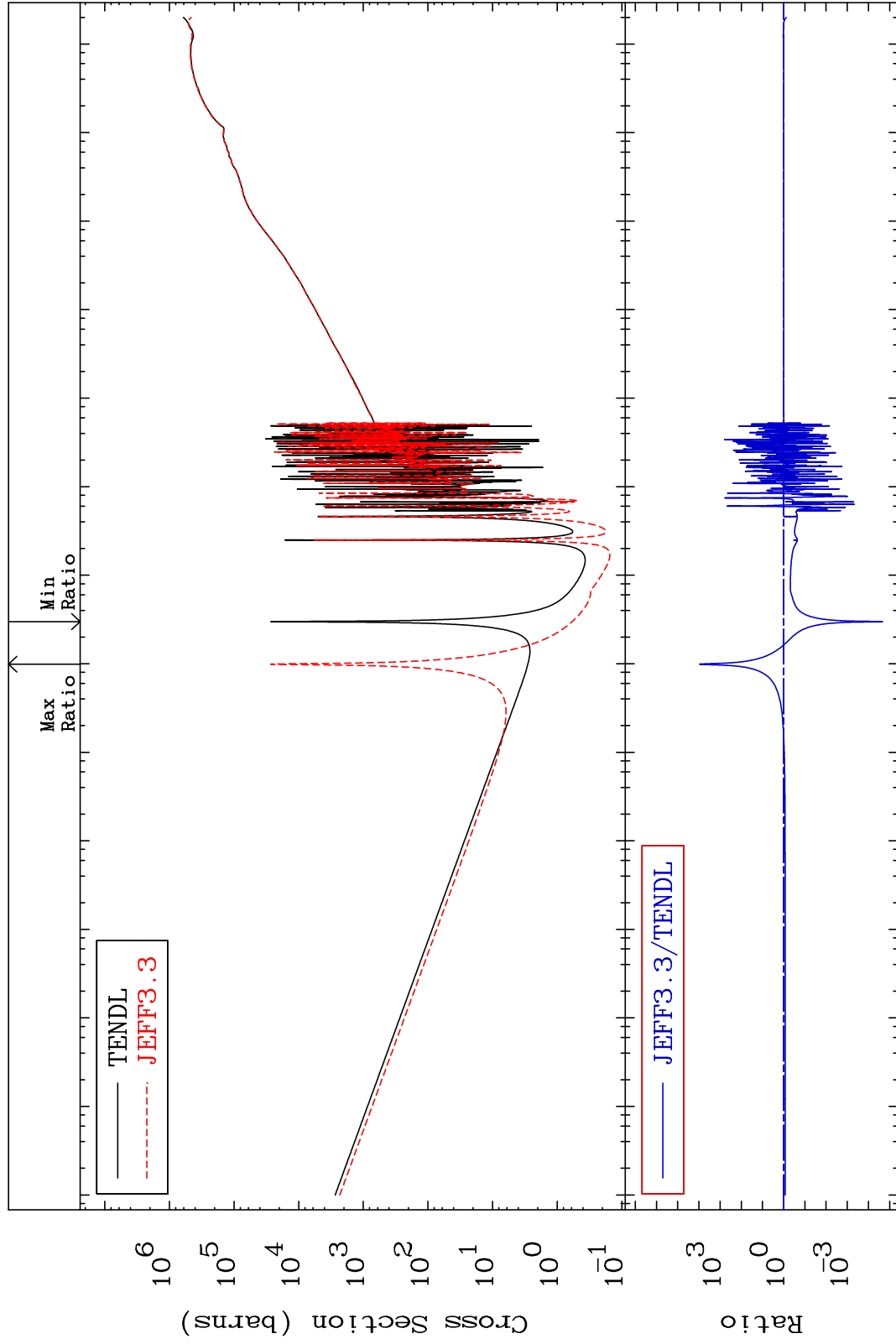
MAT 5431

Dpa total (eV-barns)

54-Xe-126

-100.0 To 9999. %

Cross Section



76

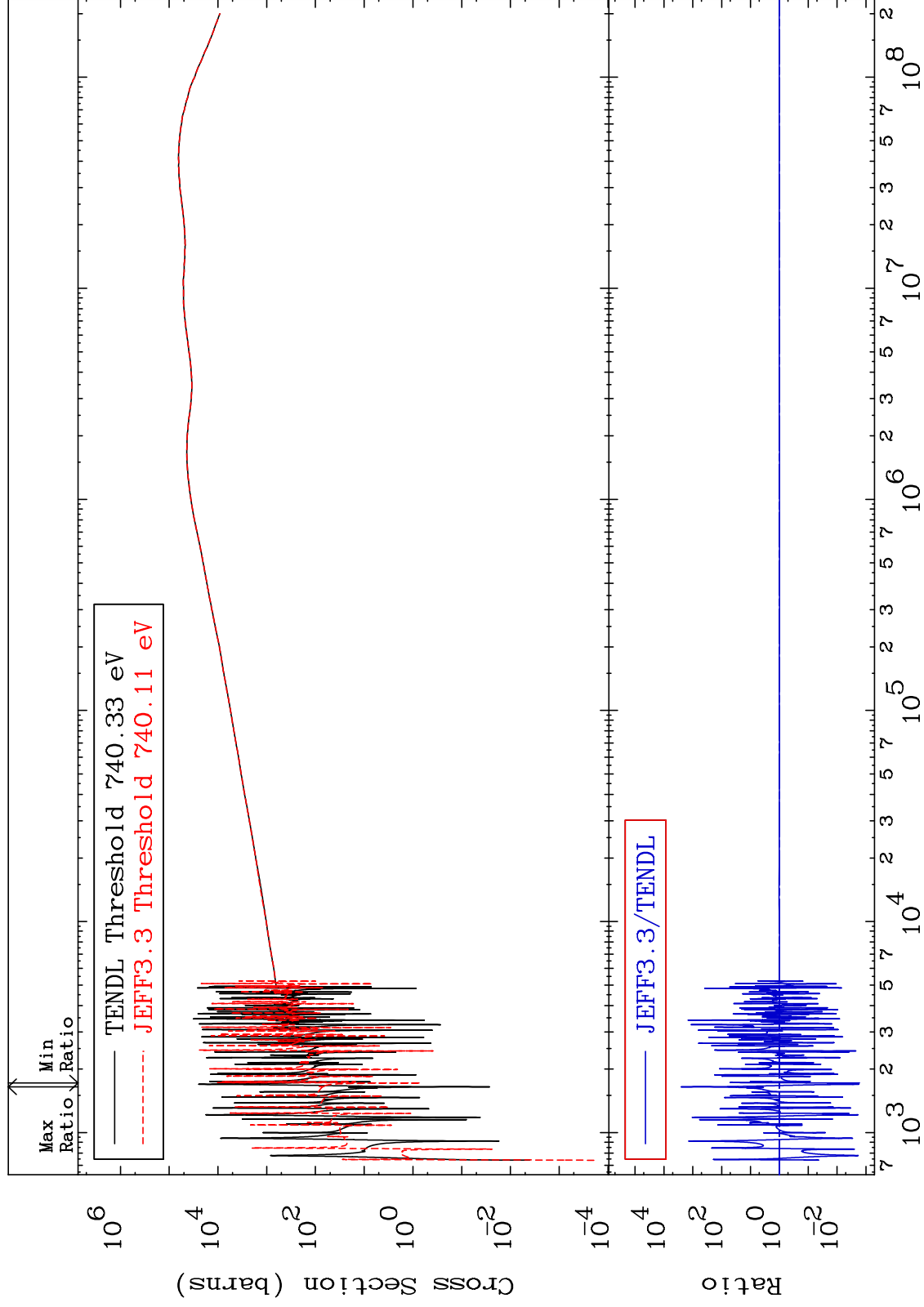
Incident Energy (eV)

54-Xe-126

MAT 5431

Dpa elastic (mt2)
Cross Section

54-Xe-126
-99.83 To 9999. %



77

Incident Energy (eV)

54-Xe-126

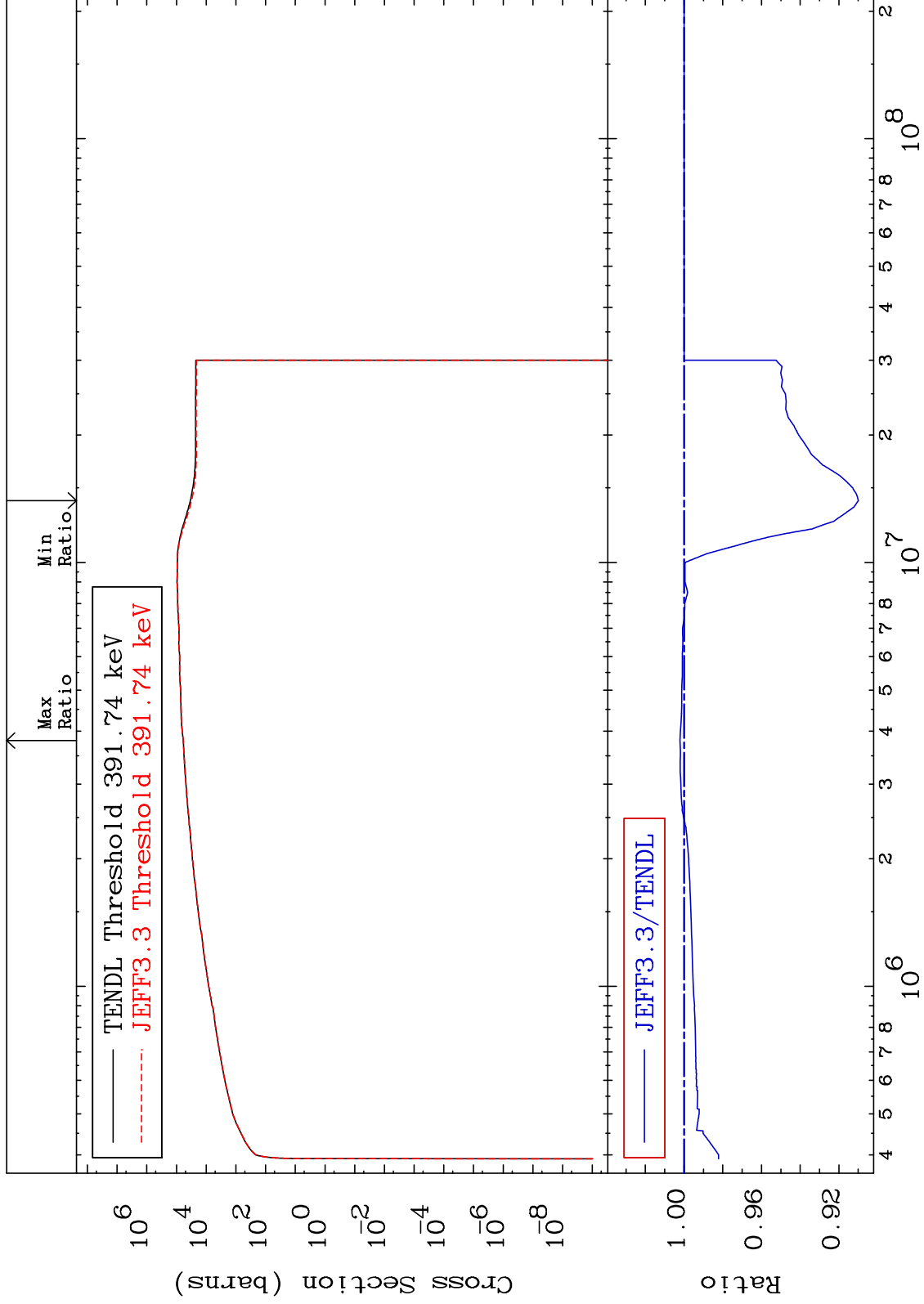
MAT 5431

Dpa inelastic (mt51-91)

54-Xe-126

-9.008 To 0.209 %

Cross Section



78

Incident Energy (eV)

54-Xe-126

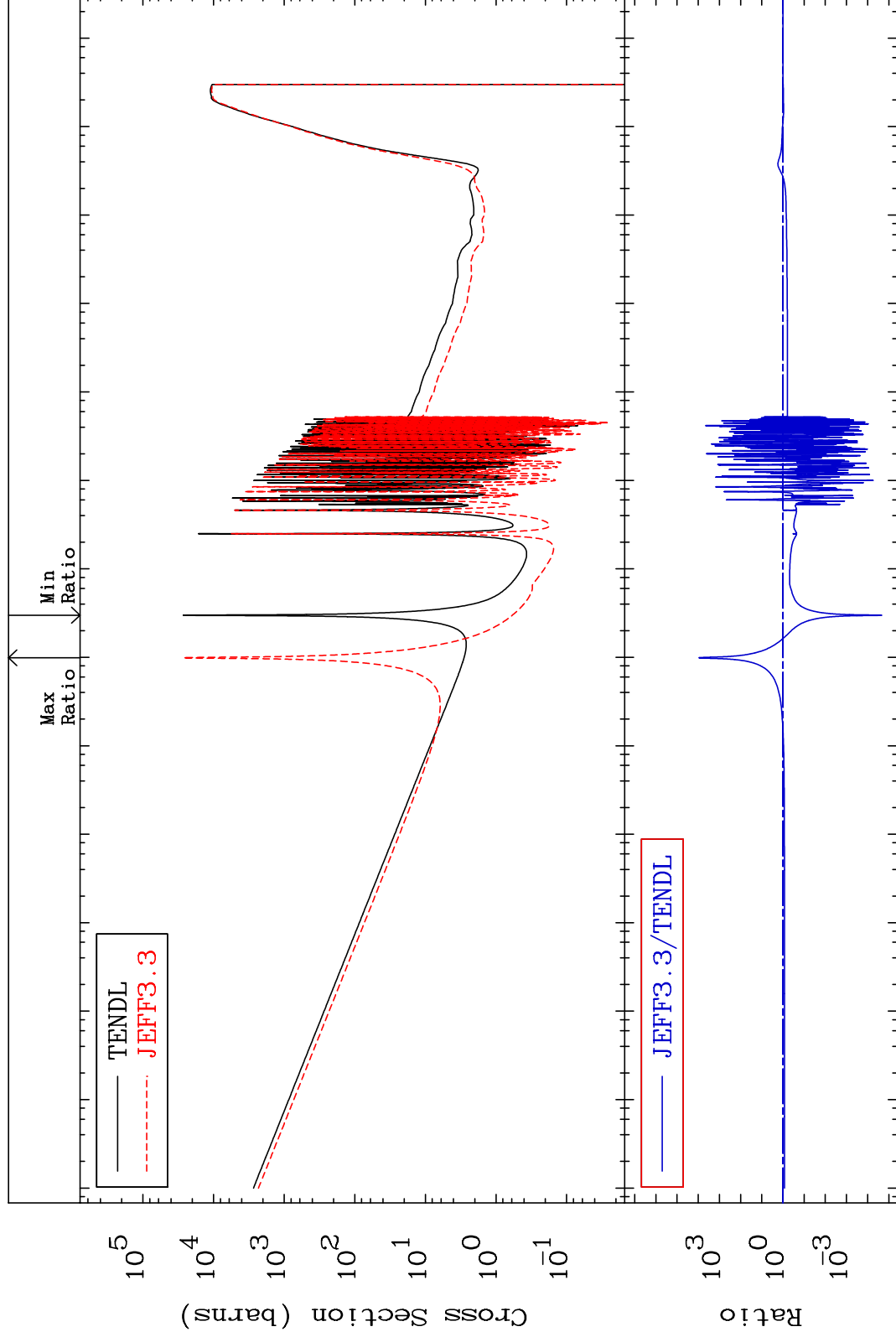
MAT 5431

Dpa disappearance (mt102 -120)

54-Xe-126

-100.0 To 9999. %

Cross Section

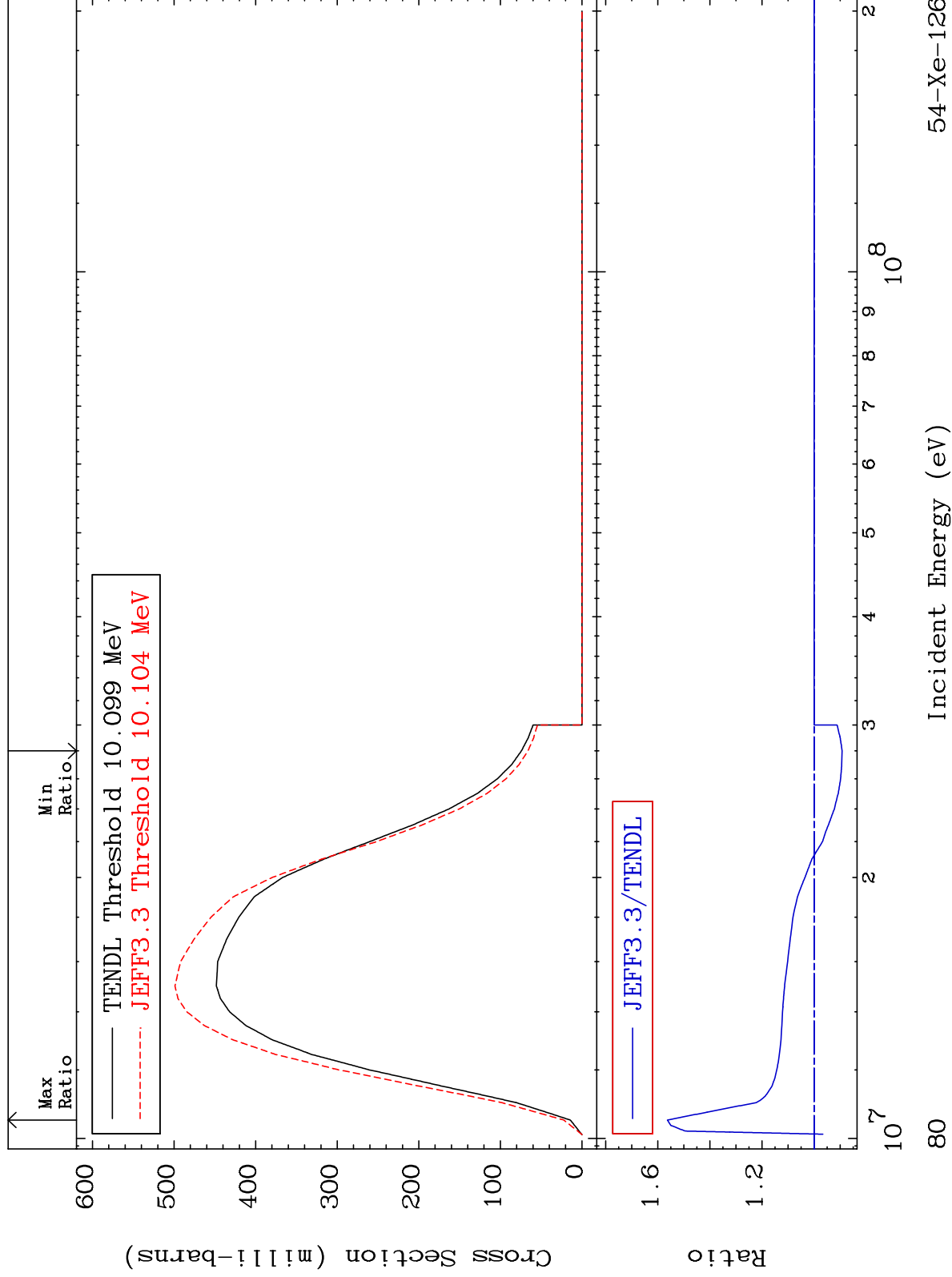


MAT 5431

(n,2n):54-Xe-125g

54-Xe-126

Radionuclide Production Cross Section -10.77 To 56.29 %

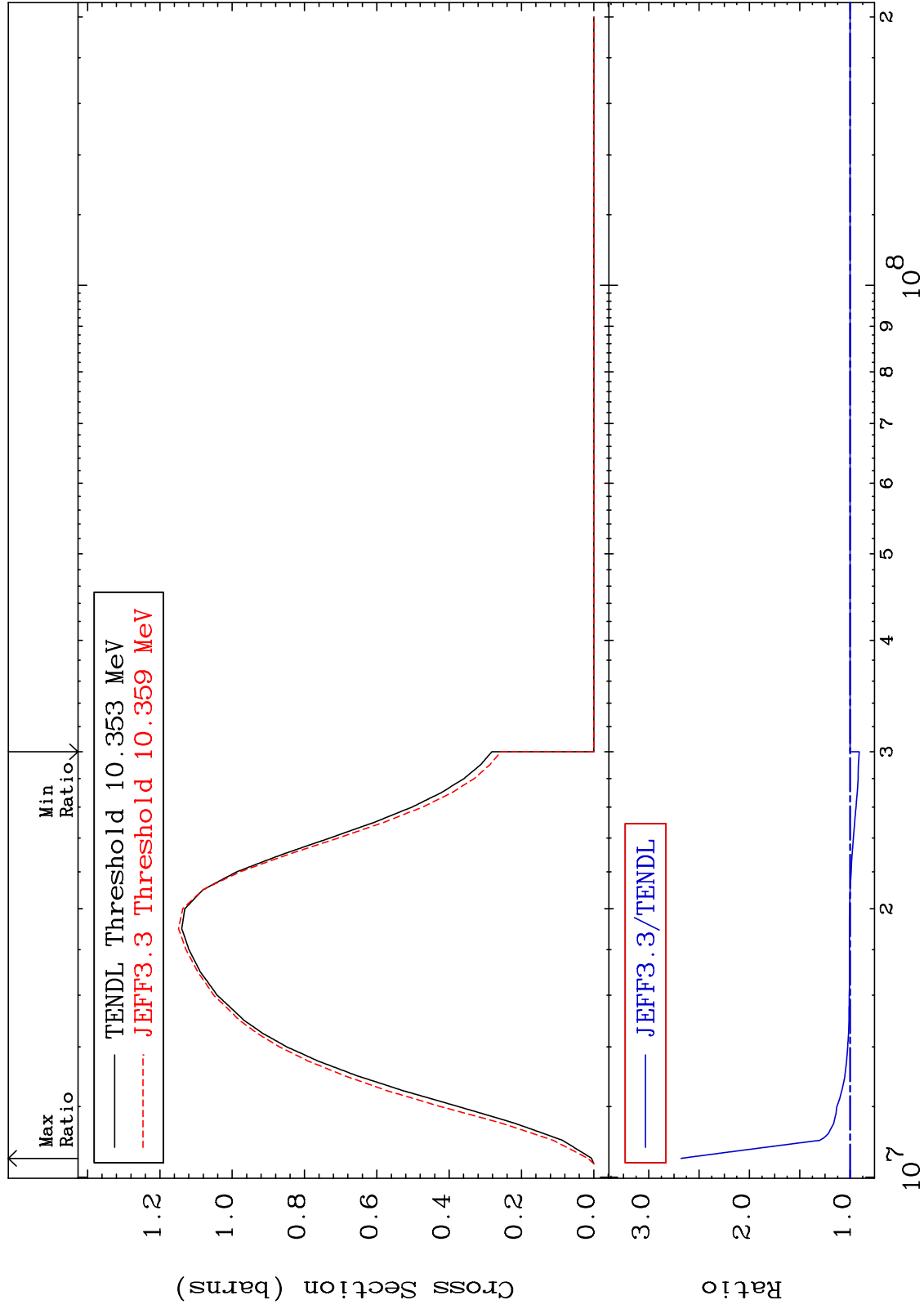


MAT 5431

(n,2n):54-Xe-125m2

54-Xe-126

Radionuclide Production Cross Section -9.053 To 167.9 %



81

Incident Energy (eV)

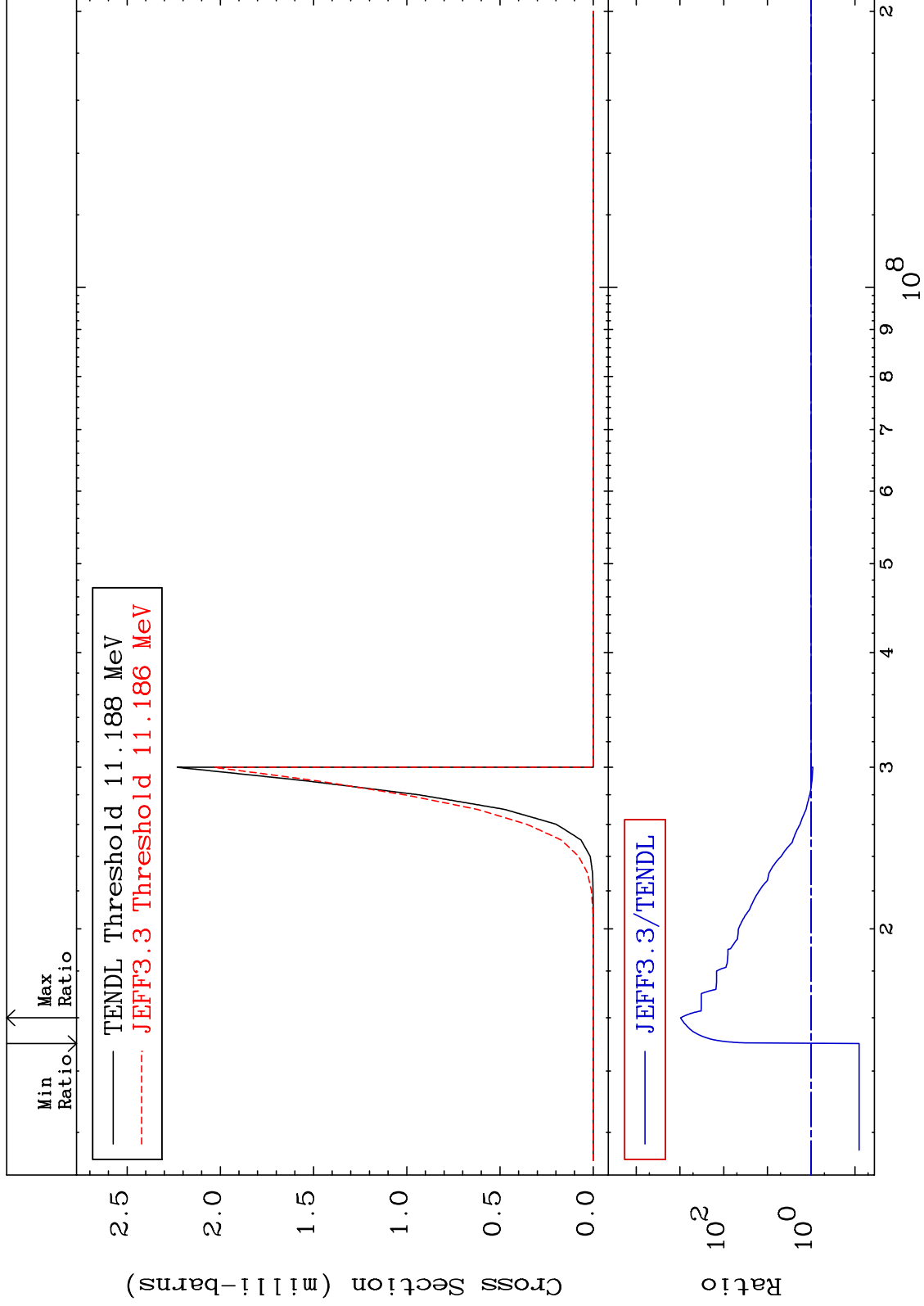
54-Xe-126

MAT 5431

(n,2n) α :52-Te-121g

54-Xe-126

Radionuclide Production Cross Section -92.00 To 9999. %

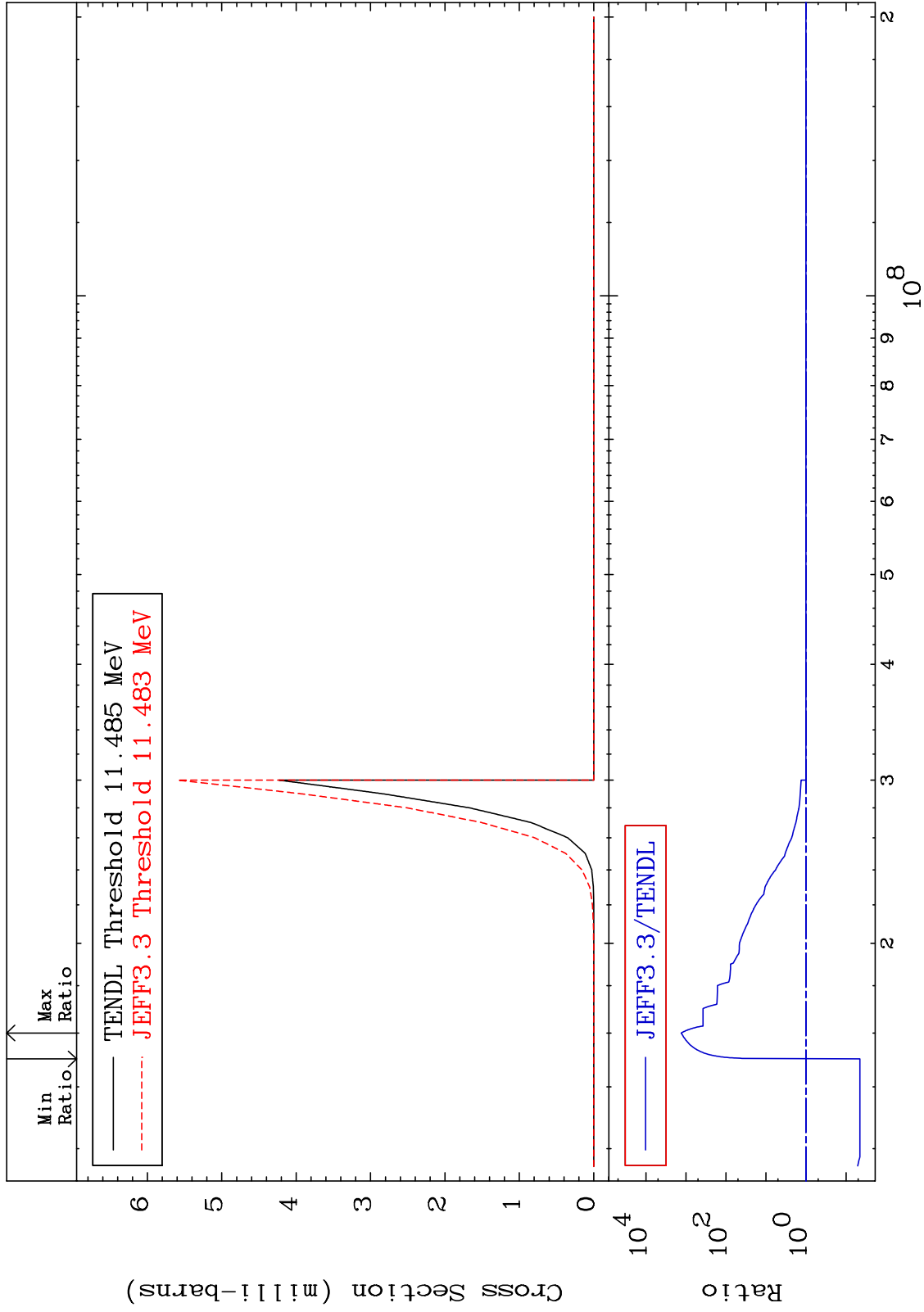


MAT 5431

(n,2n) α :52-Te-121m2

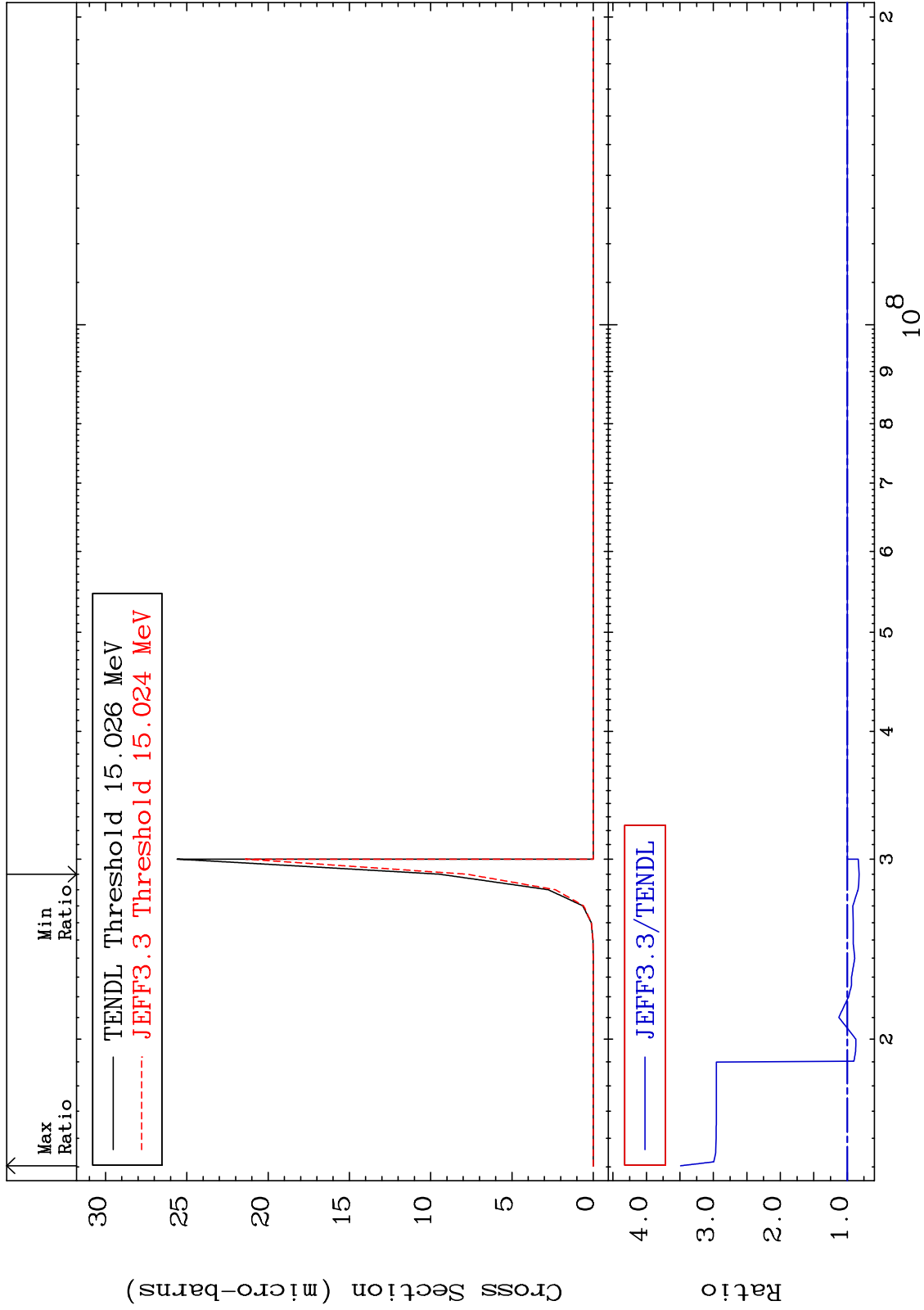
54-Xe-126

Radionuclide Production Cross Section -95.50 To 9999. %



MAT 5431

(n, n') He-3:52-Te-123g 54-Xe-126
Radionuclide Production Cross Section -17.75 To 248.9 %

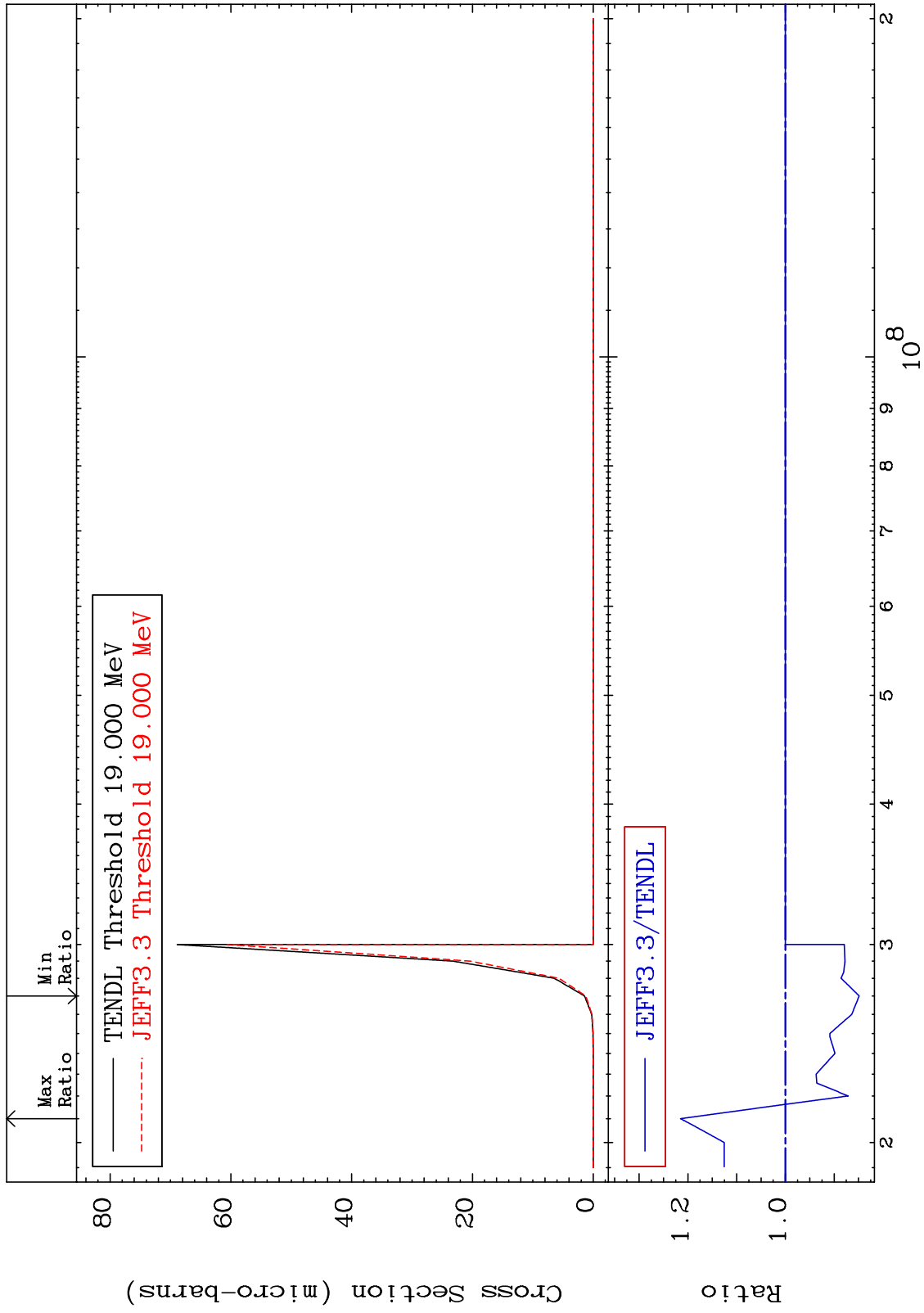


MAT 5431

(n, n') He-3:52-Te-123m2

54-Xe-126

Radionuclide Production Cross Section -15.13 To 21.49 %



85

Incident Energy (eV)

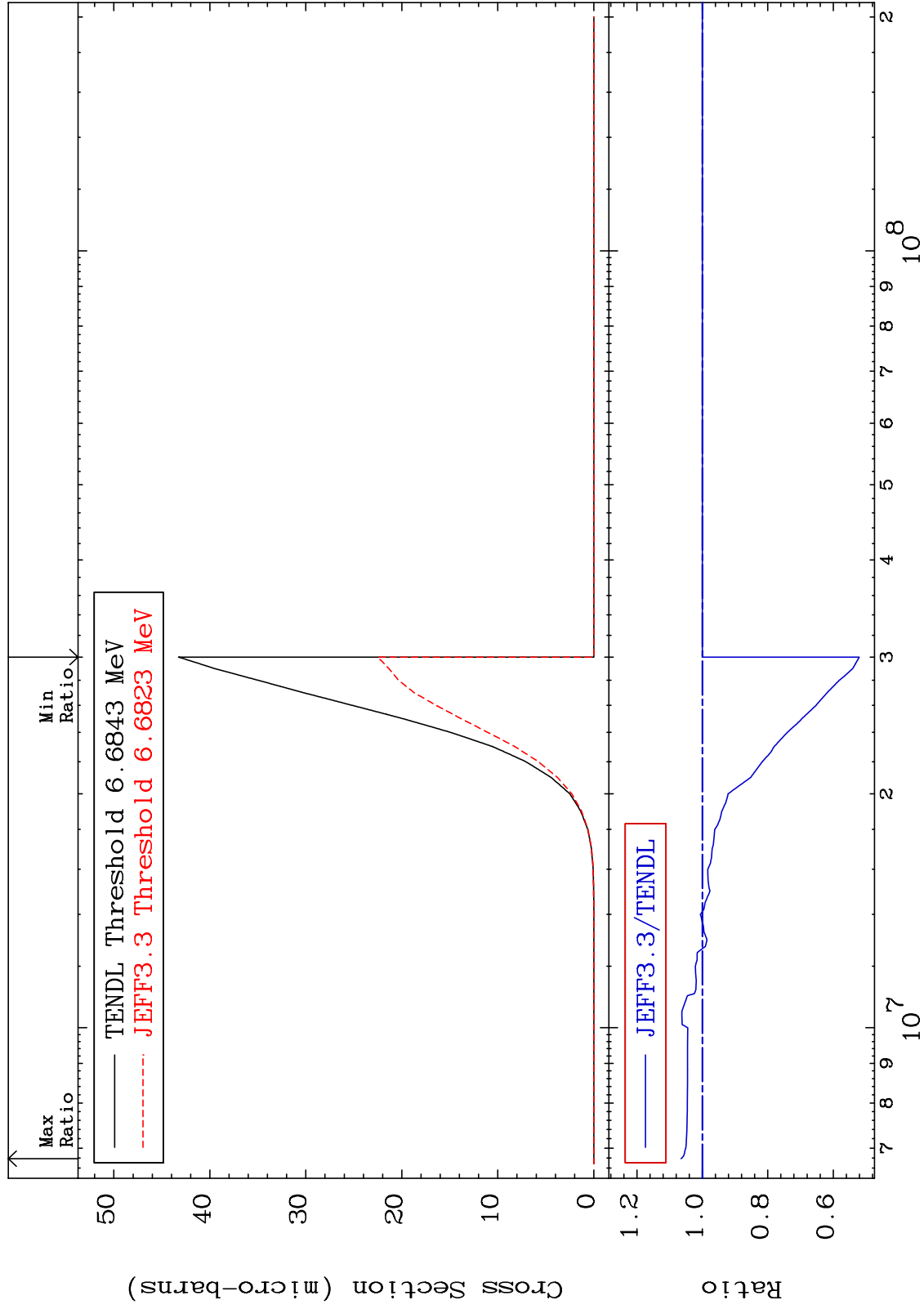
54-Xe-126

MAT 5431

(n,2p):52-Te-125g

54-Xe-126

Radionuclide Production Cross Section -47.96 To 6.509 %

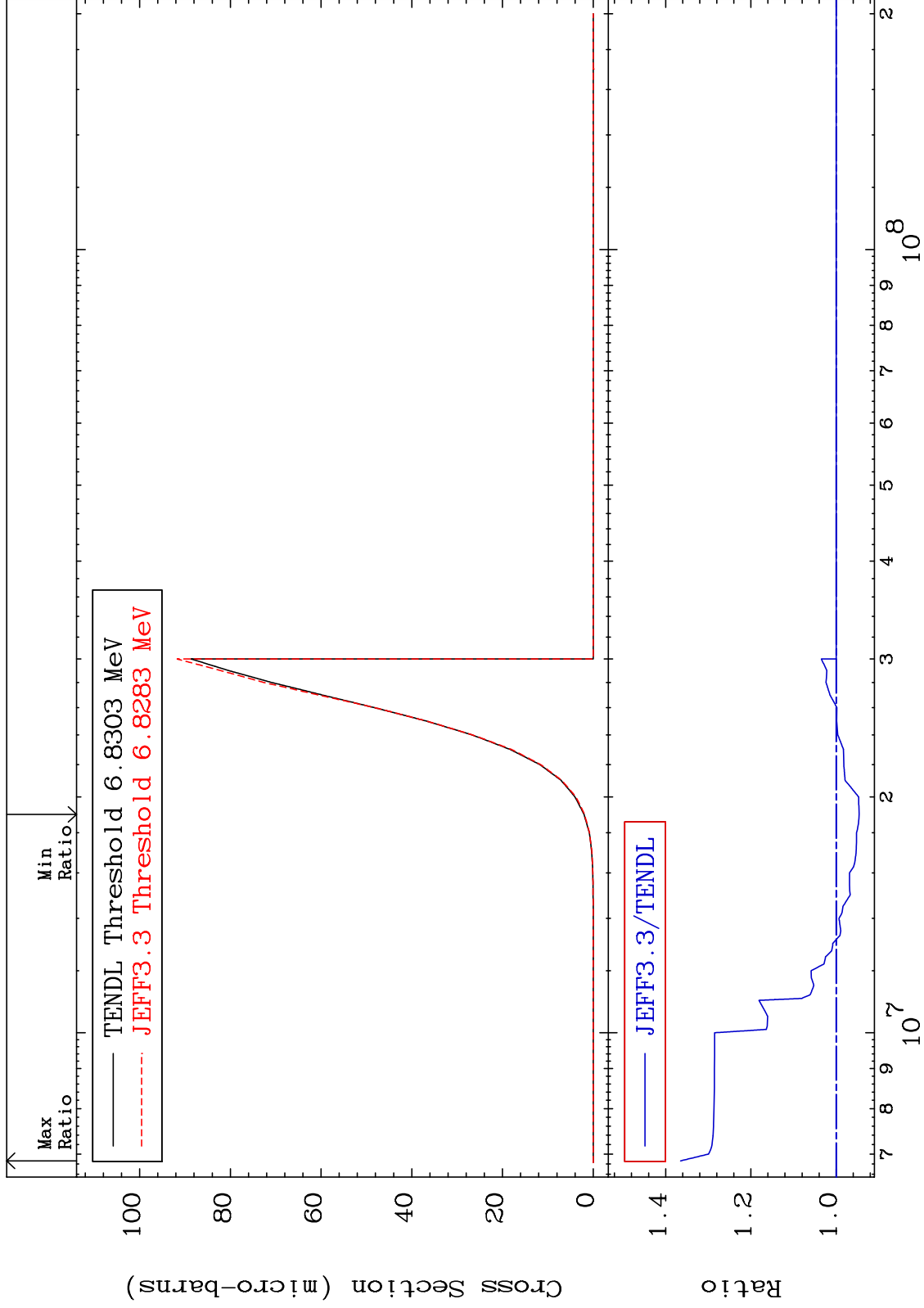


MAT 5431

(n,2p):52-Te-125m2

54-Xe-126

Radionuclide Production Cross Section -5.398 To 36.48 %



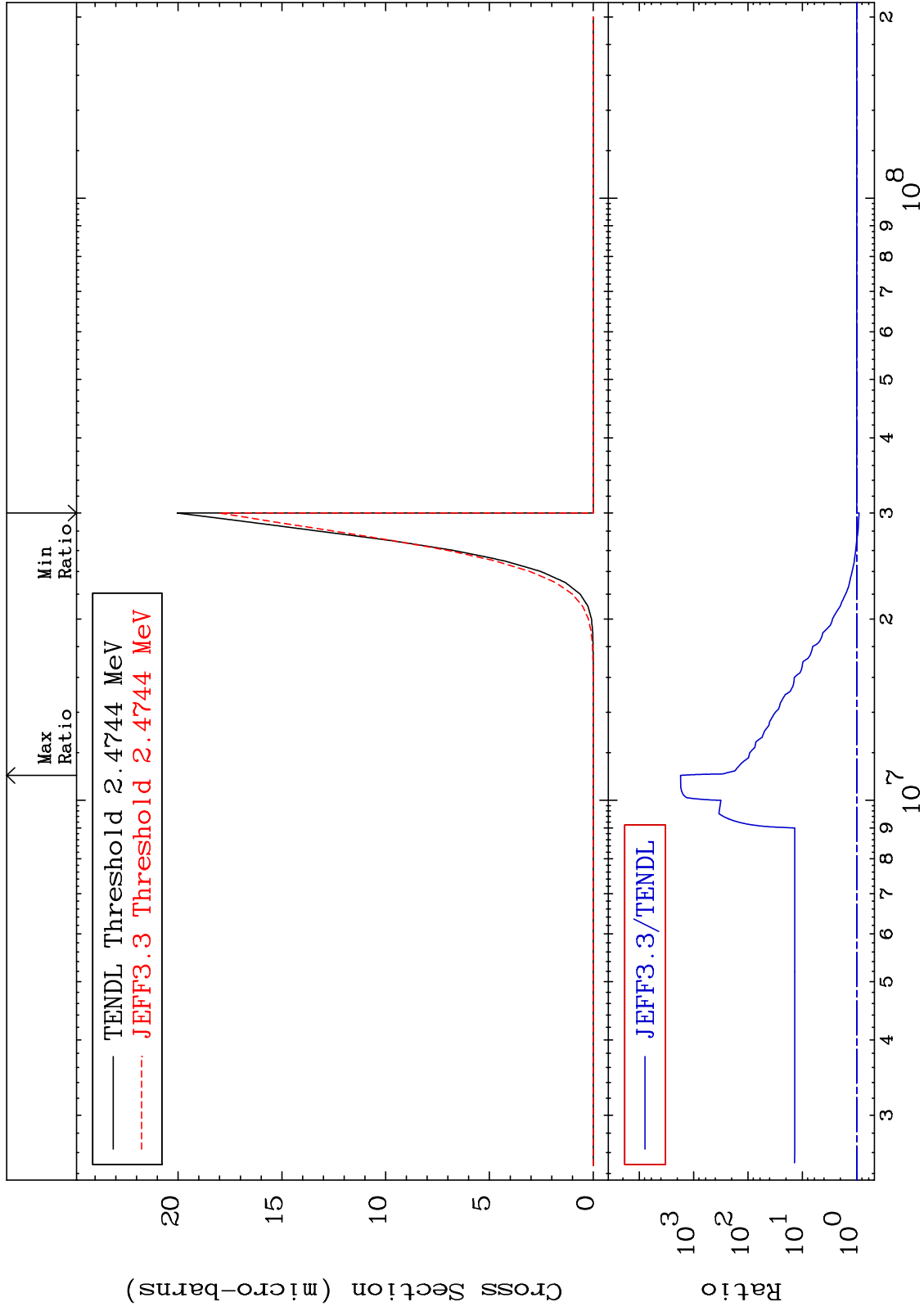
87

Incident Energy (eV)

54-Xe-126

MAT 5431

(n, p) α :51-Sb-122g 54-Xe-126
Radionuclide Production Cross Section -10.16 To 9999. %

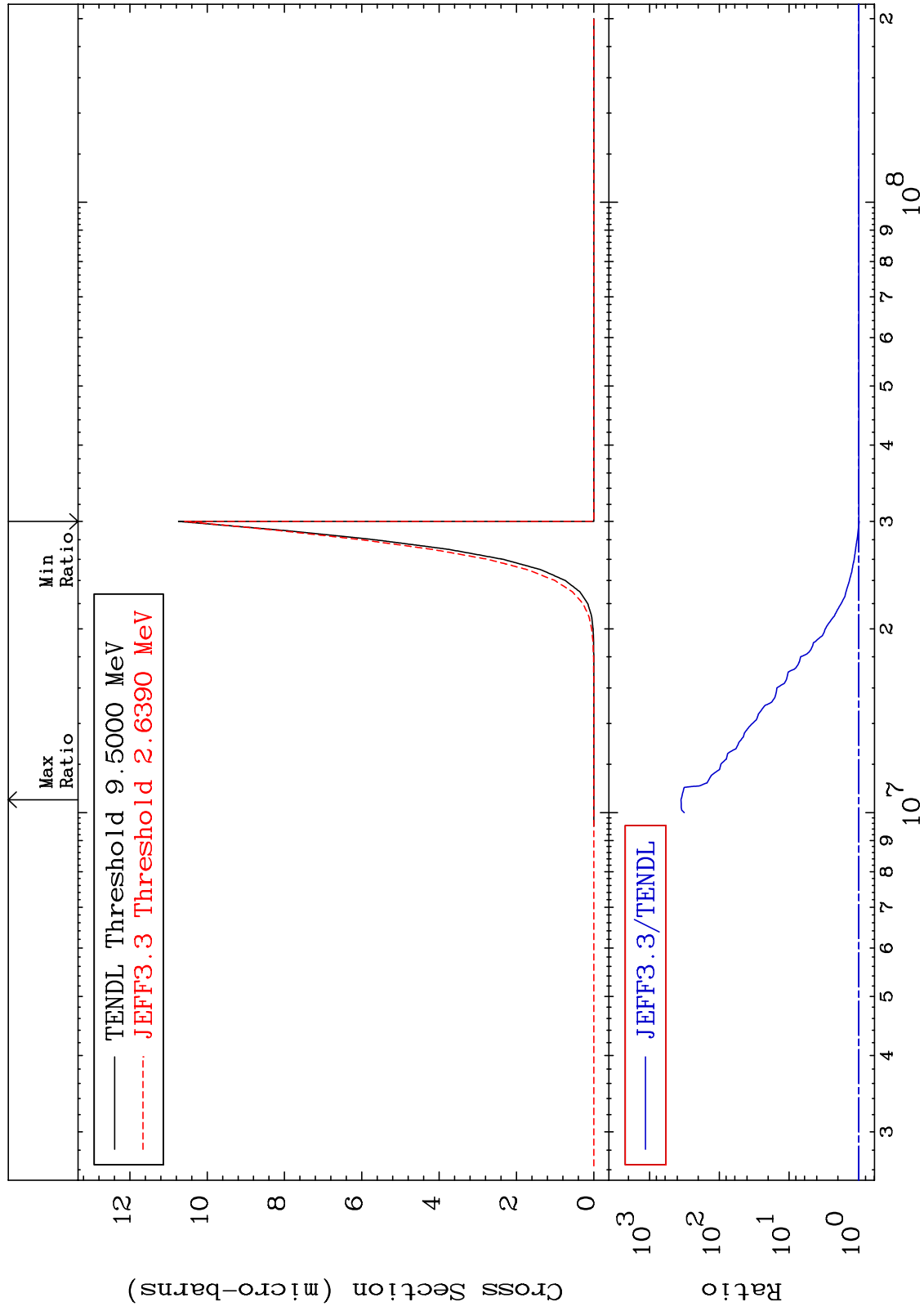


MAT 5431

(n, p) α :51-Sb-122m5

54-Xe-126

Radionuclide Production Cross Section -1.497 To 9999. %



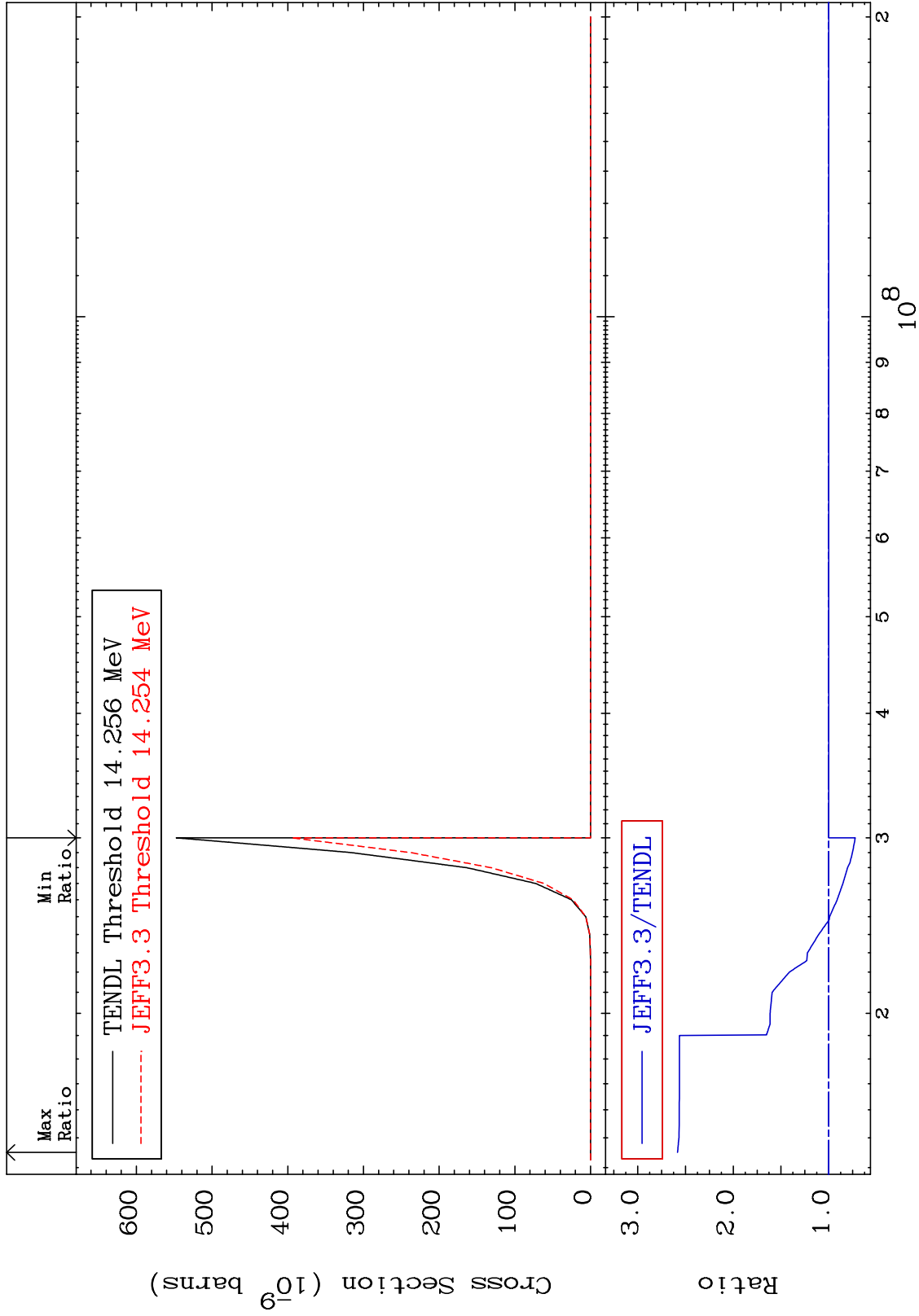
MAT 5431

(n, p) t:52-Te-123g

54-Xe-126

Radionuclide Production Cross Section

-27.77 To 158.3 %



90

Incident Energy (eV)

54-Xe-126

MAT 5431

(n, p) t:52-Te-123m2

54-Xe-126

Radionuclide Production Cross Section -2.790 To 317.6 %

