

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

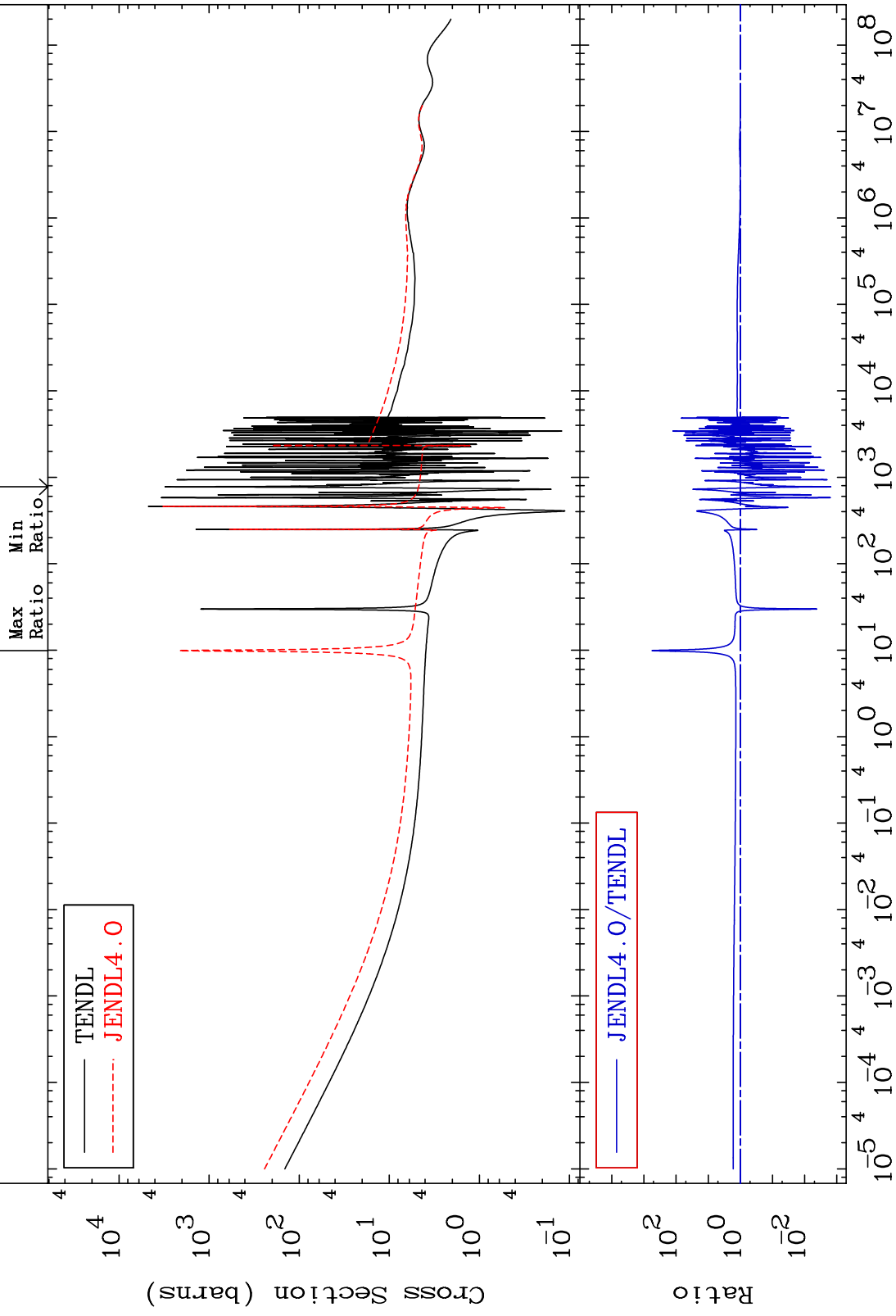
Press Mouse Button to Start

MAT 5431

54-Xe-126

-99.85 To 9999. %

Total
Cross Section



Incident Energy (eV)

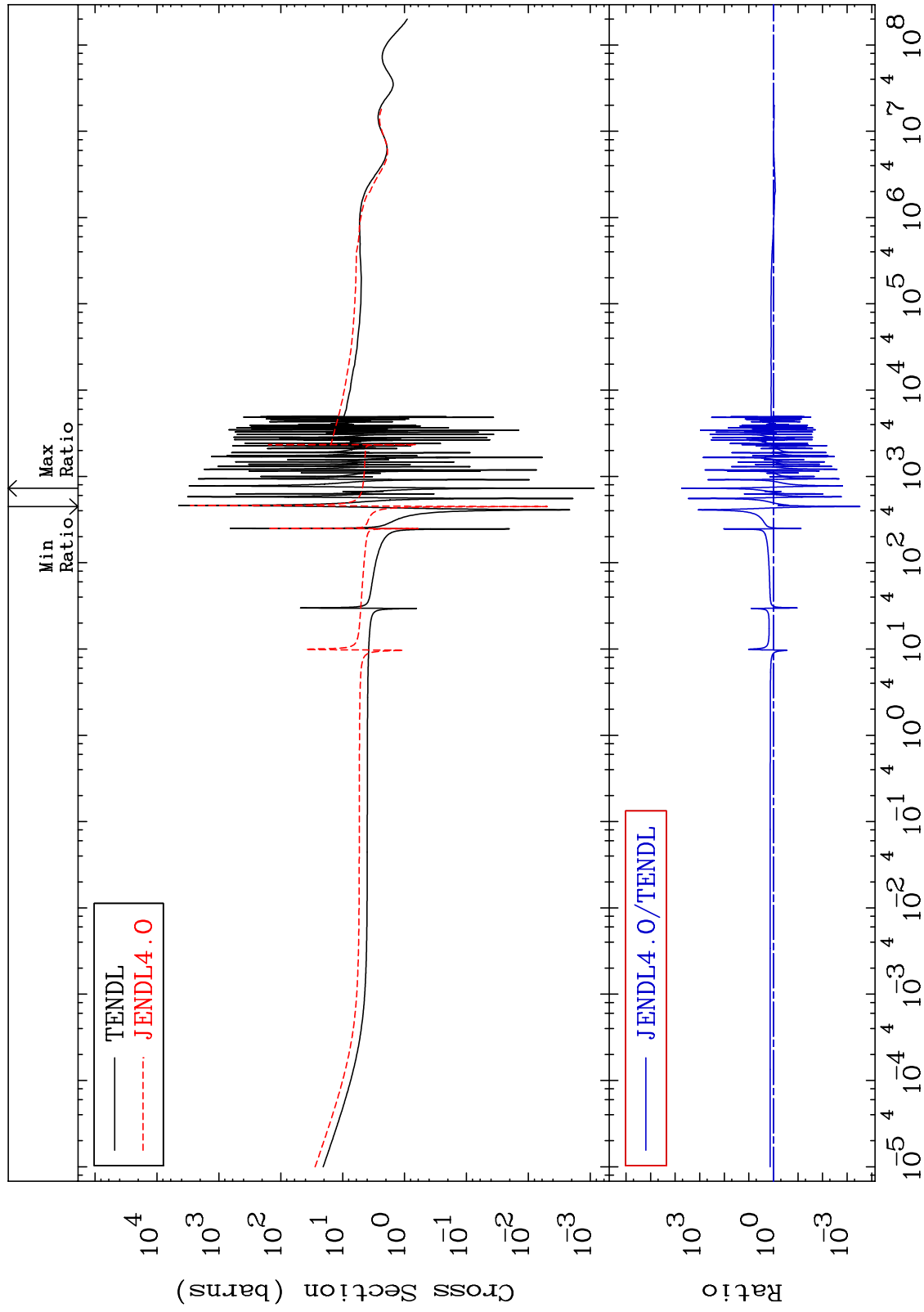
54-Xe-126

1

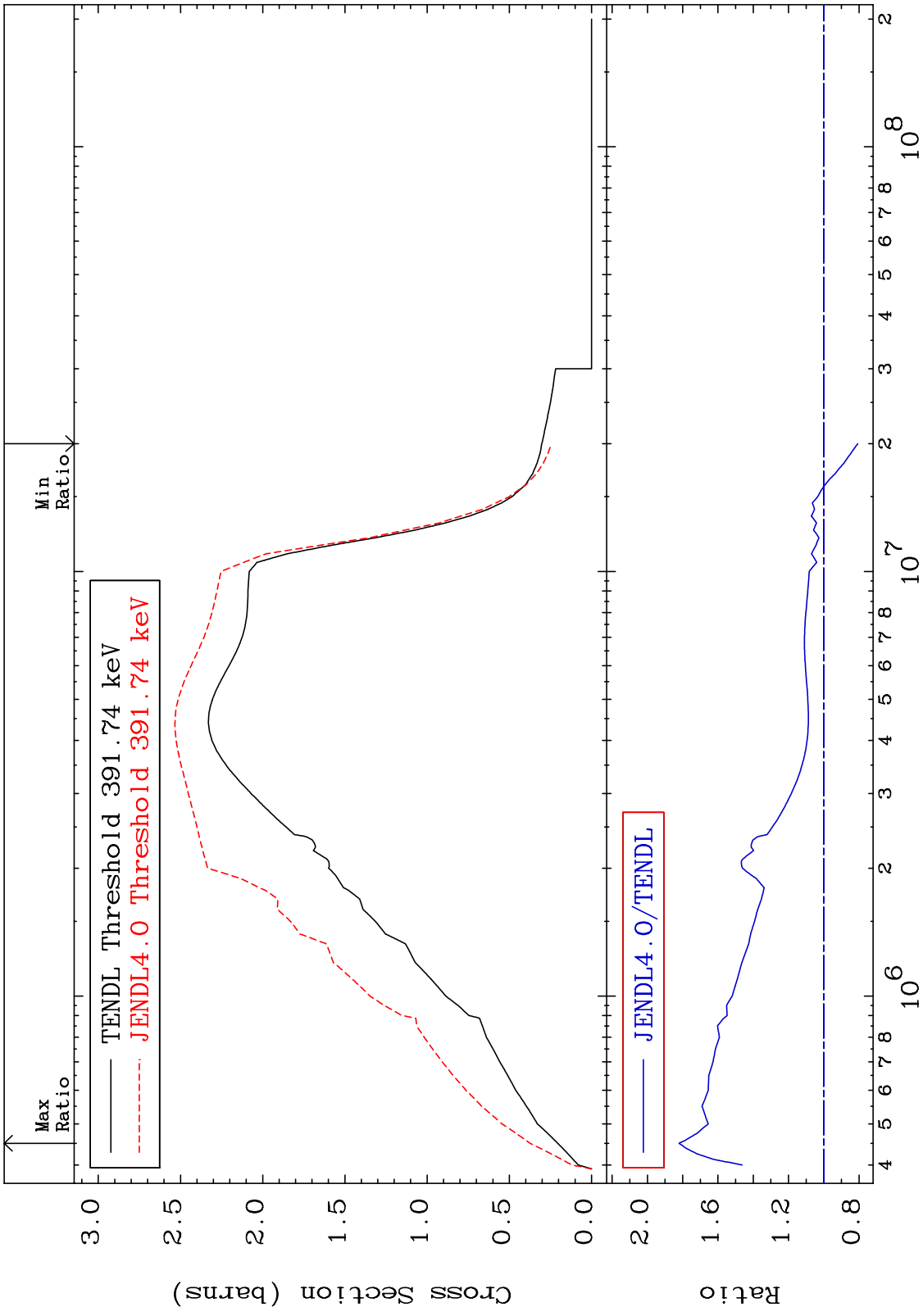
MAT 5431

Elastic
Cross Section

54-Xe-126
-99.97 To 9999. %



MAT 5431 Inelastic Cross Section 54-Xe-126 -19.31 To 82.07 %



3 54-Xe-126

MAT 5431 (n,2n) Cross Section 54-Xe-126 5.941 To 172.3 %



54-Xe-126

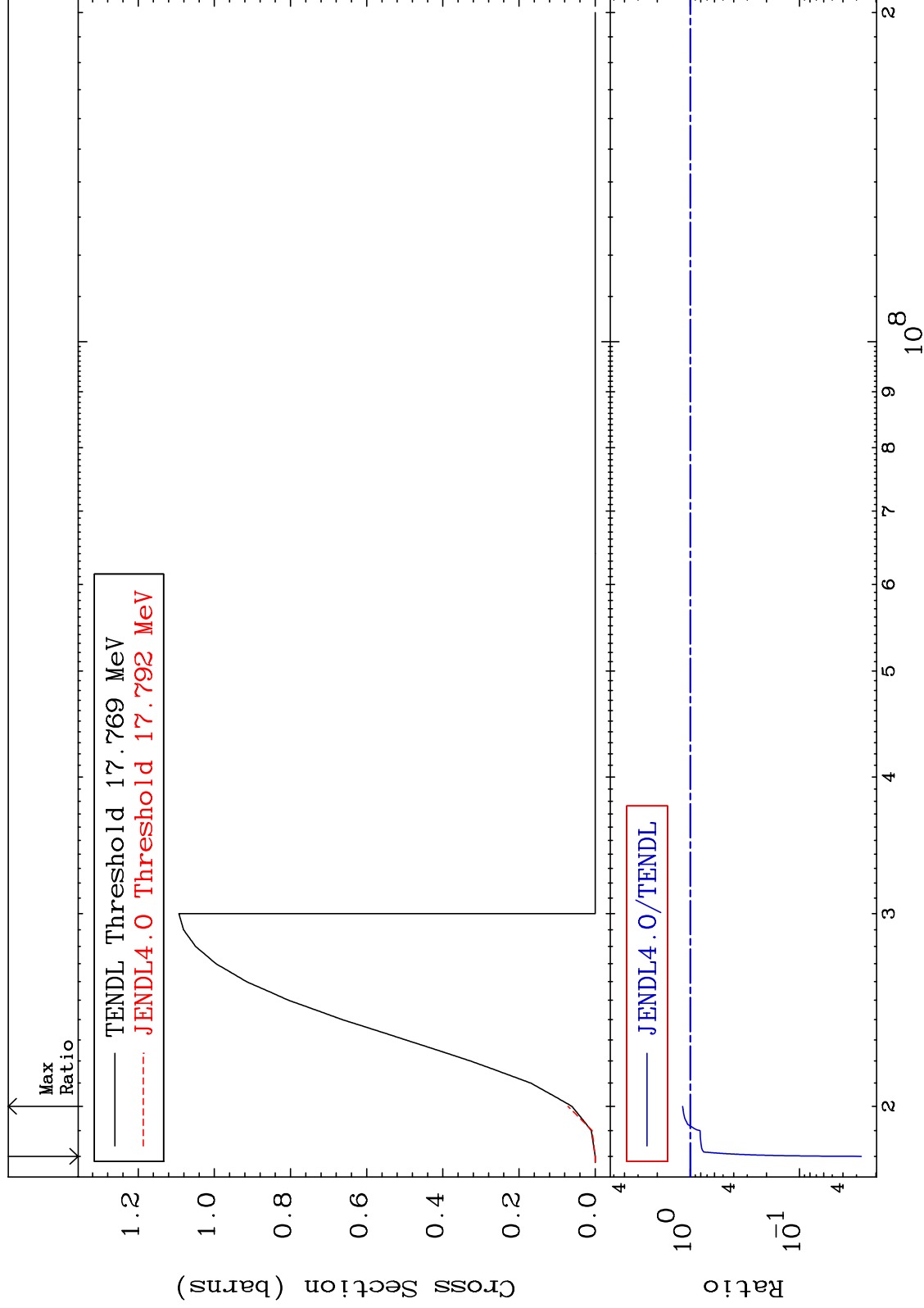
MAT 5431

(n,3n)

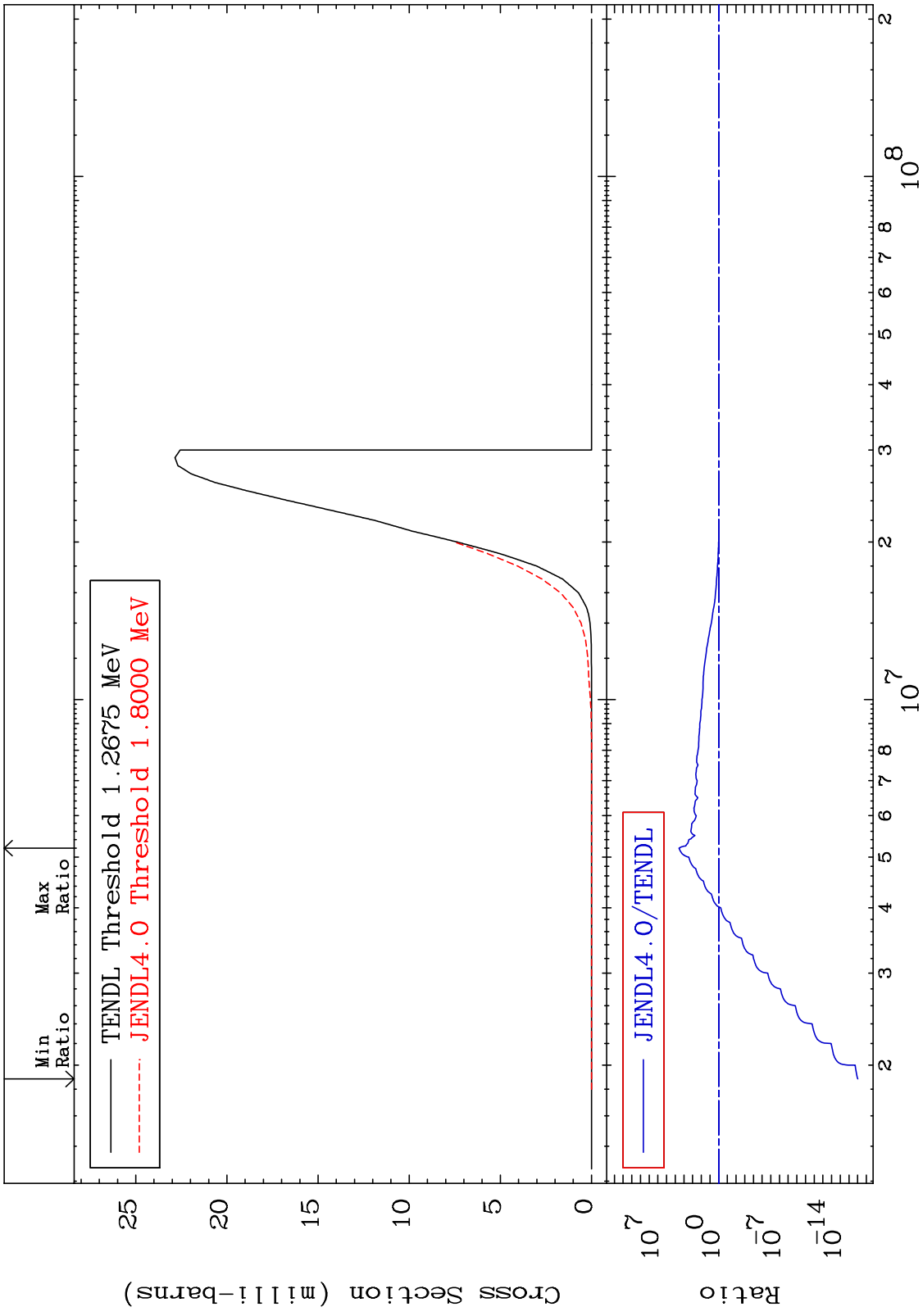
54-Xe-126

Cross Section

-97.29 To 17.20 %



MAT 5431 $(n, n') \alpha$ 54-Xe-126
 Cross Section -100.0 To 9999. %



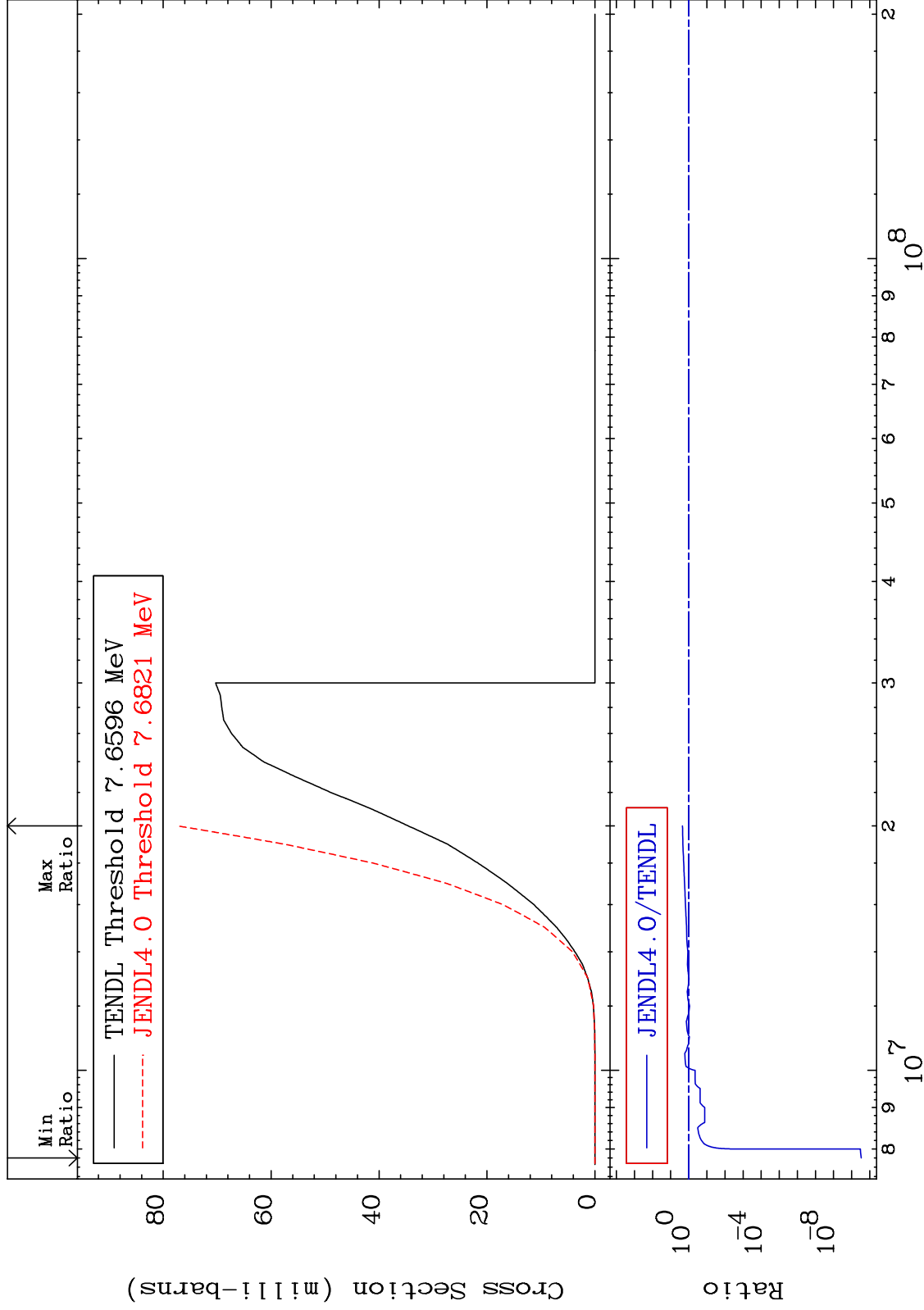
MAT 5431

(n,n') p

54-Xe-126

Cross Section

-100.0 To 123.3 %

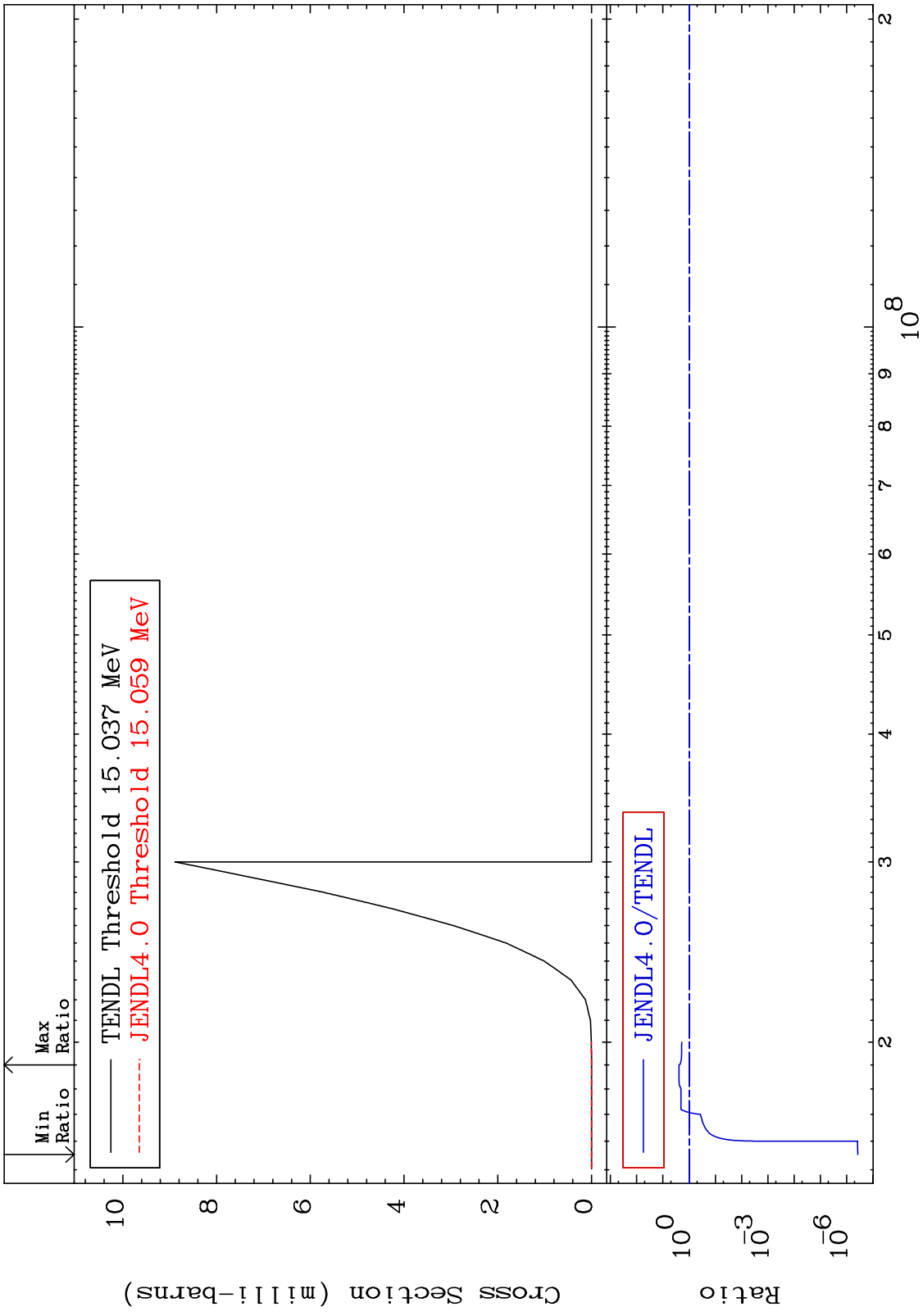


7

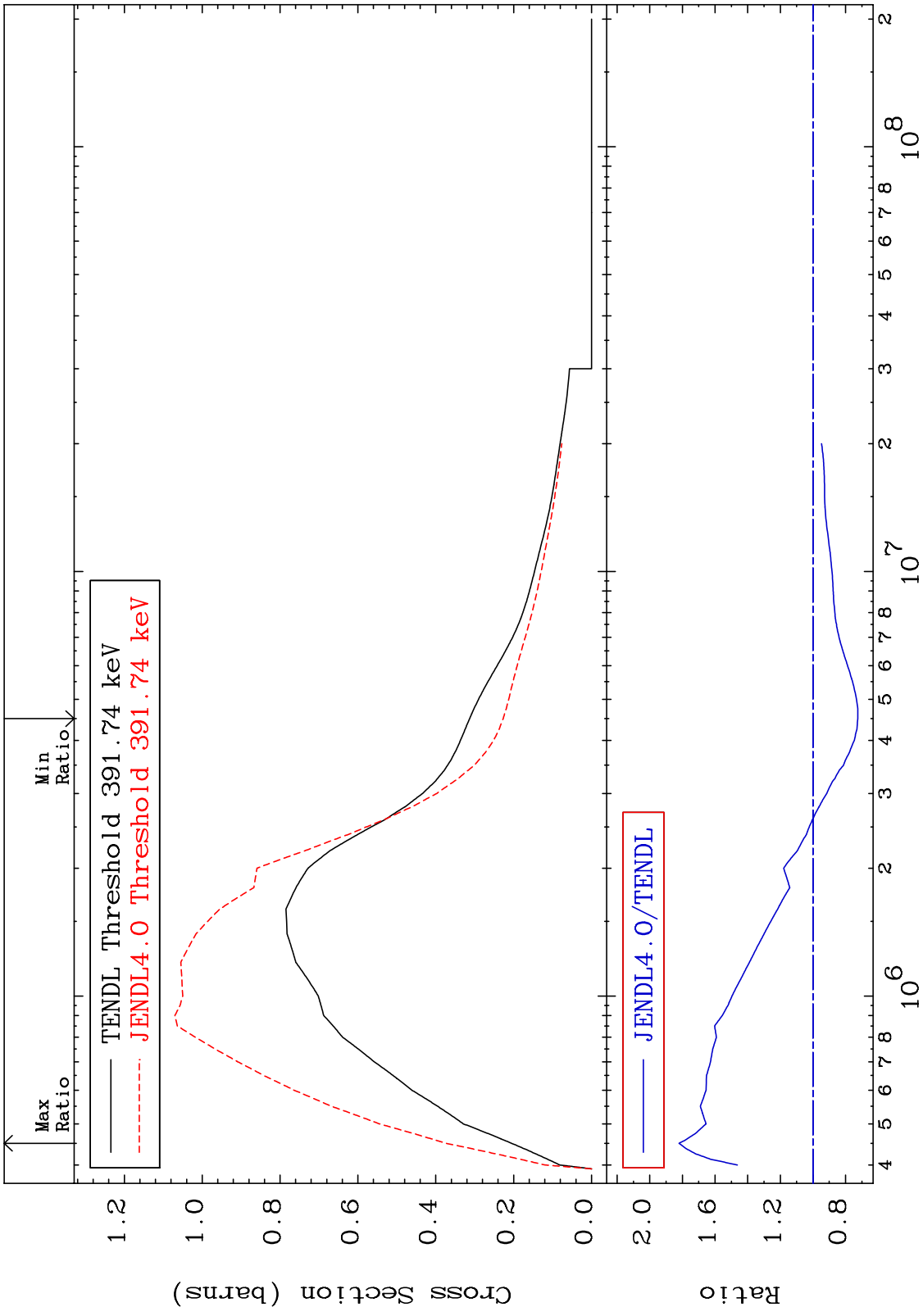
Incident Energy (eV)

54-Xe-126

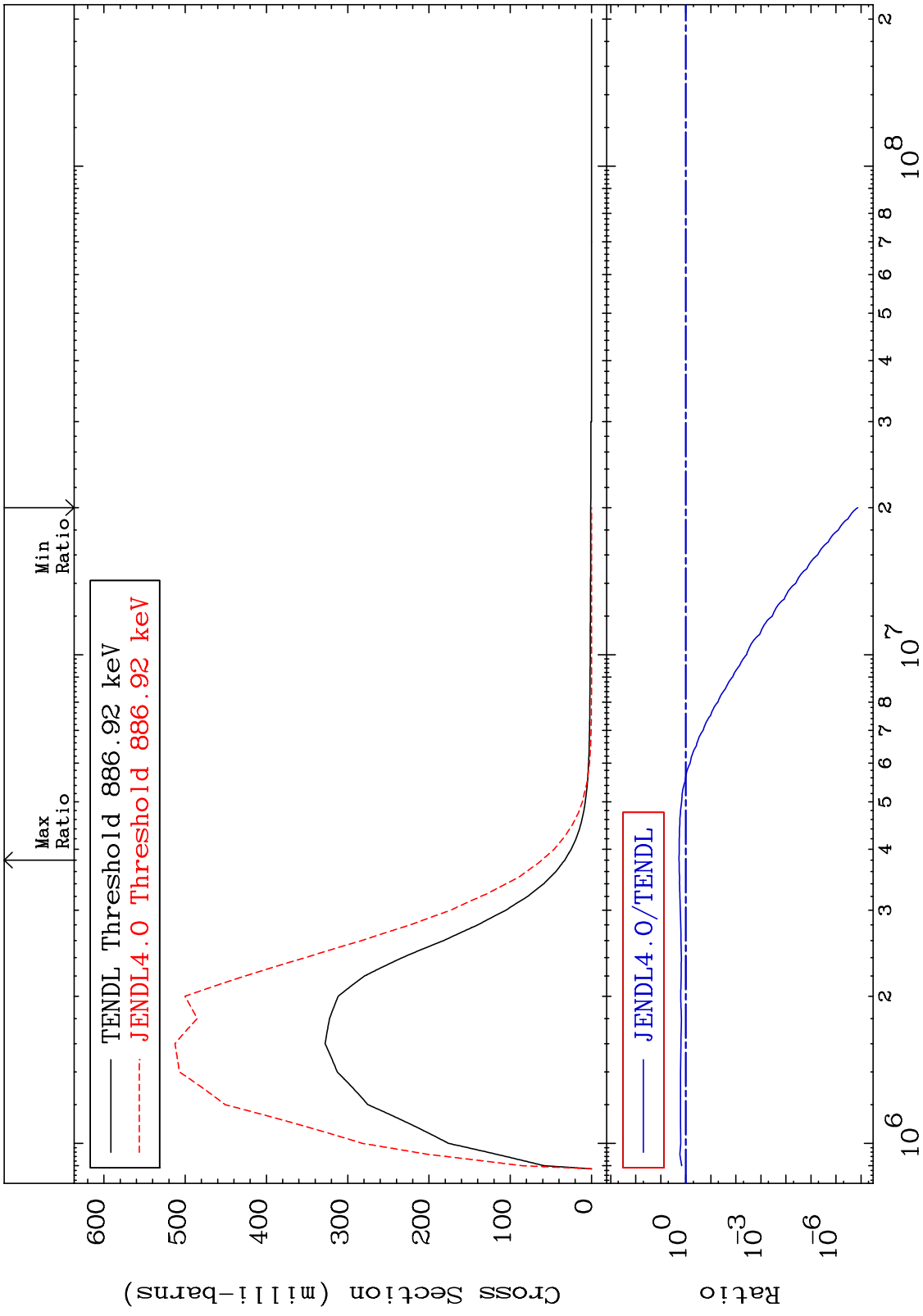
MAT 5431 (n, n') d 54-Xe-126
 Cross Section -100.0 To 142.6 %



MAT 5431 MT= 51 (n,n') Level Cross Section 54-Xe-126 -27.52 To 82.07 %

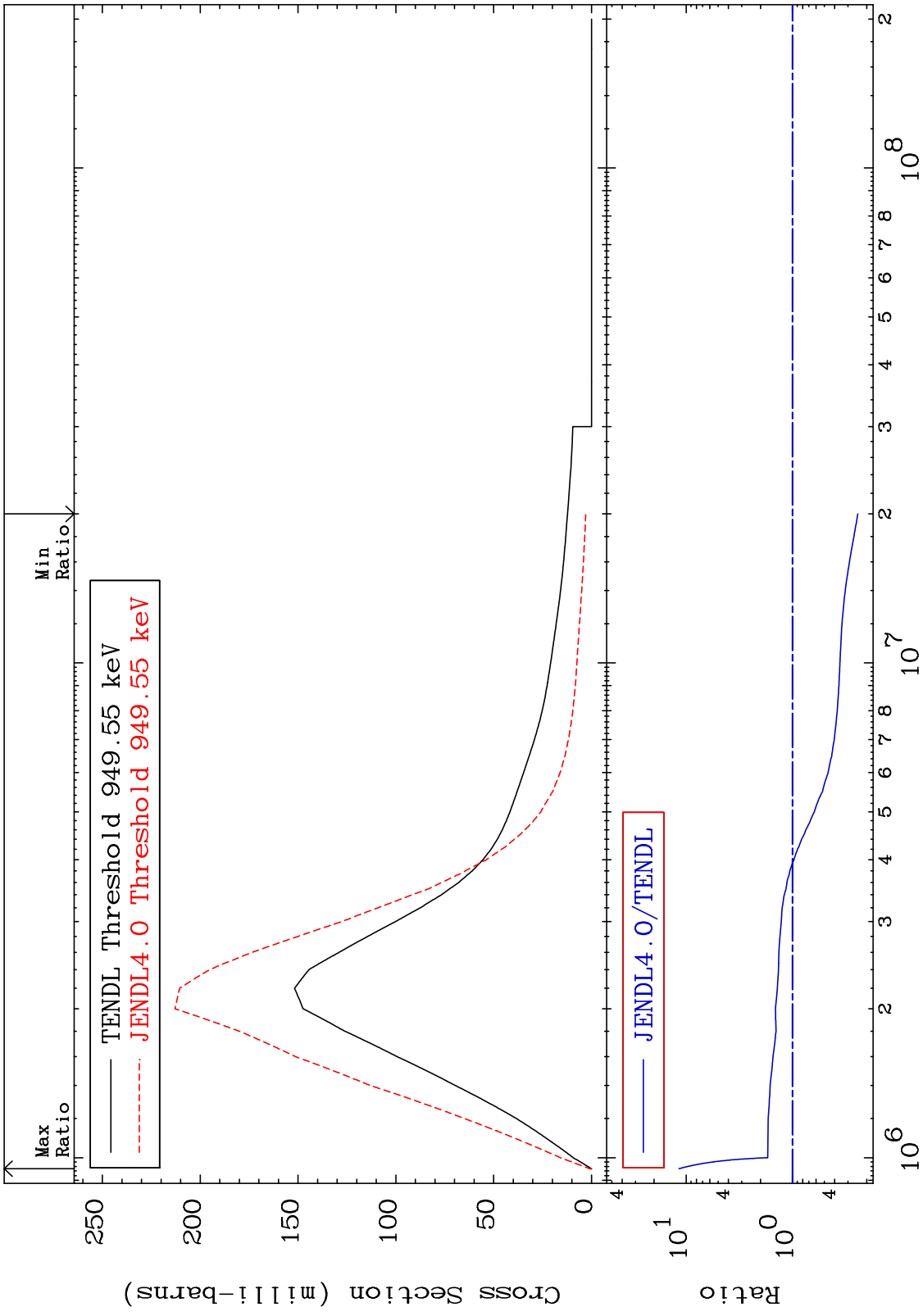


MAT 5431 MT= 52 (n,n') Level Cross Section 54-Xe-126 -100.0 To 86.10 %



Incident Energy (eV) 54-Xe-126

MAT 5431 MT= 53 (n,n') Level Cross Section 54-Xe-126 -75.76 To 1066. %

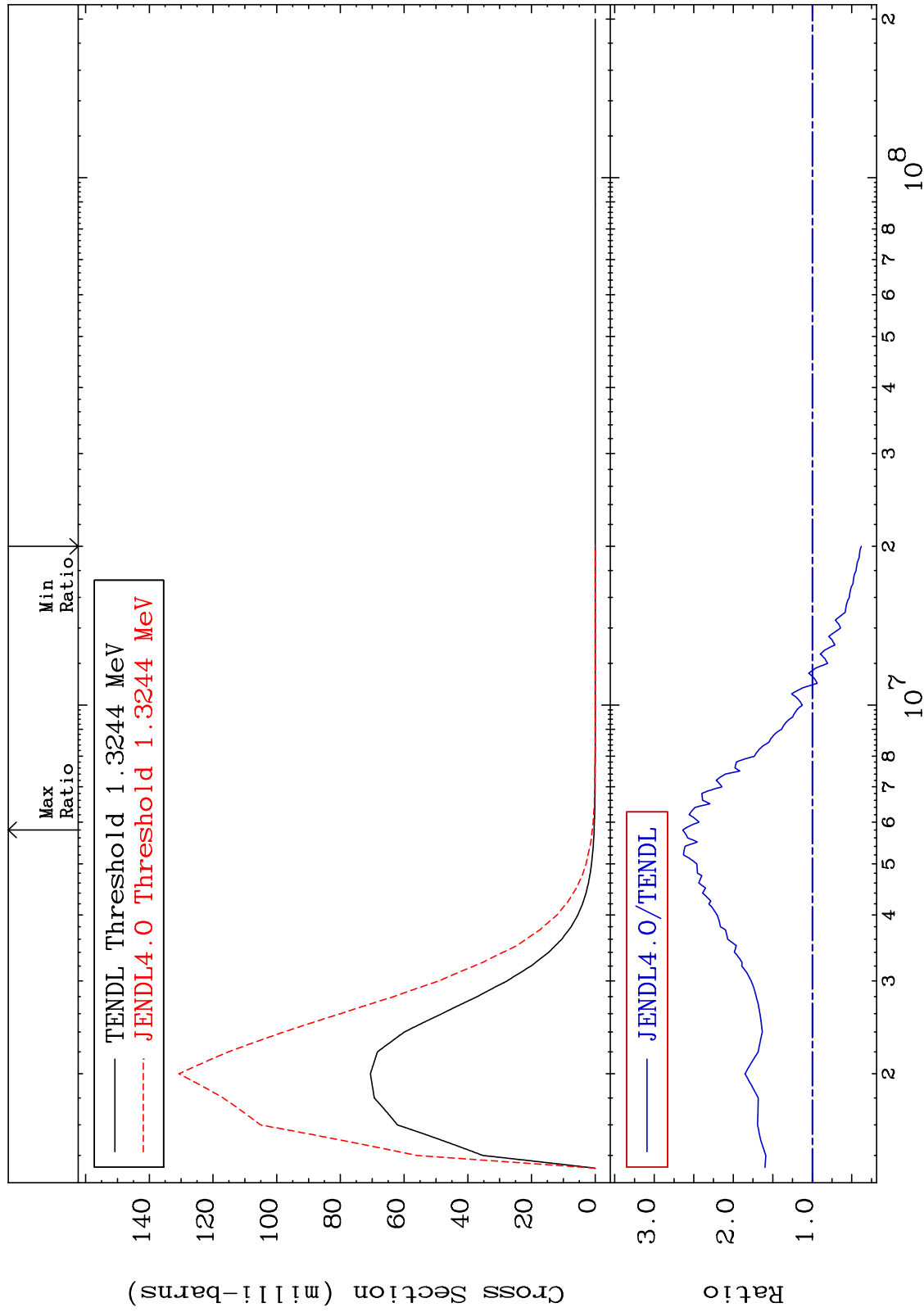


11 54-Xe-126

MAT 5431

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

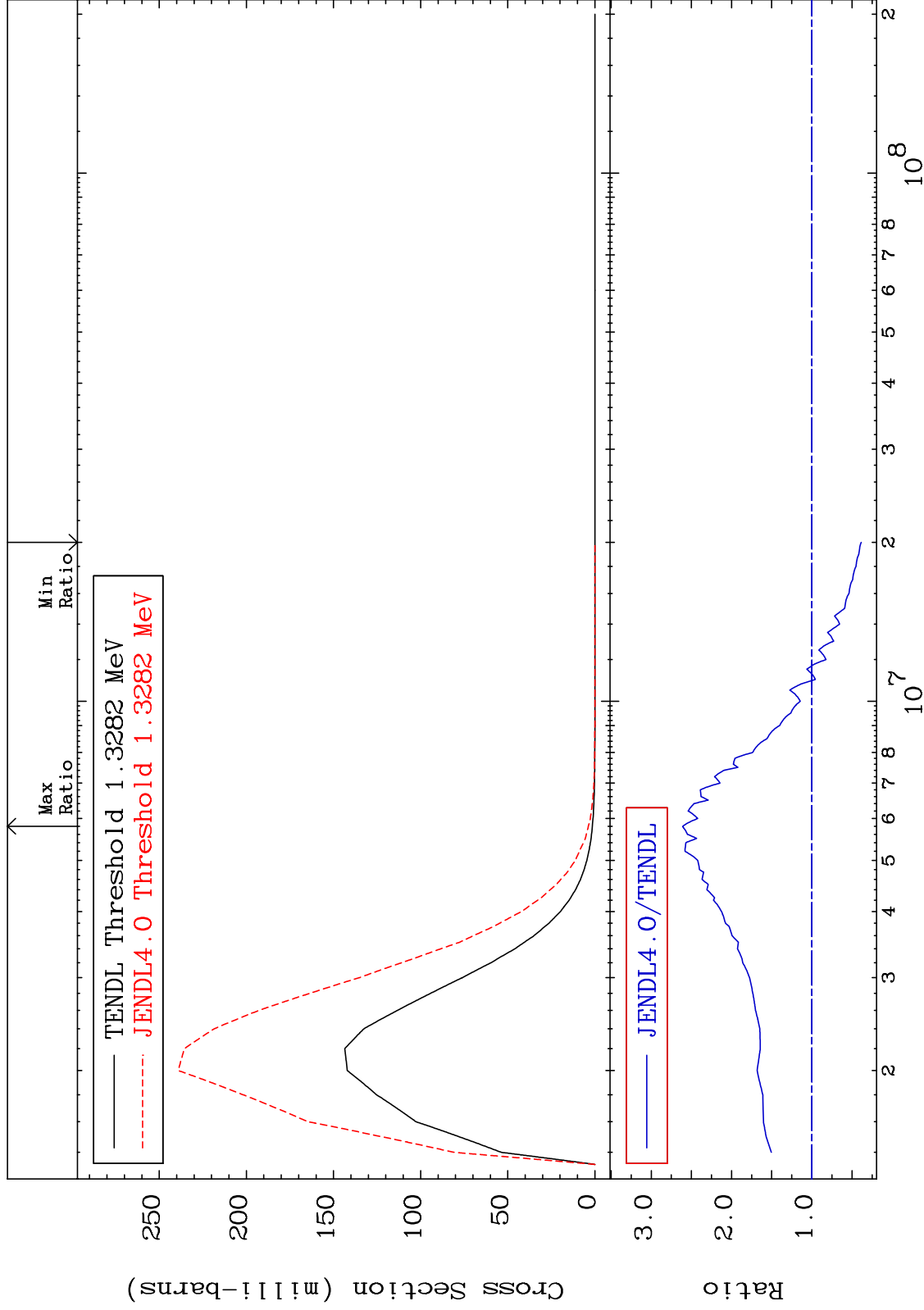
54-Xe-126
-62.12 To 164.0 %



MAT 5431

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

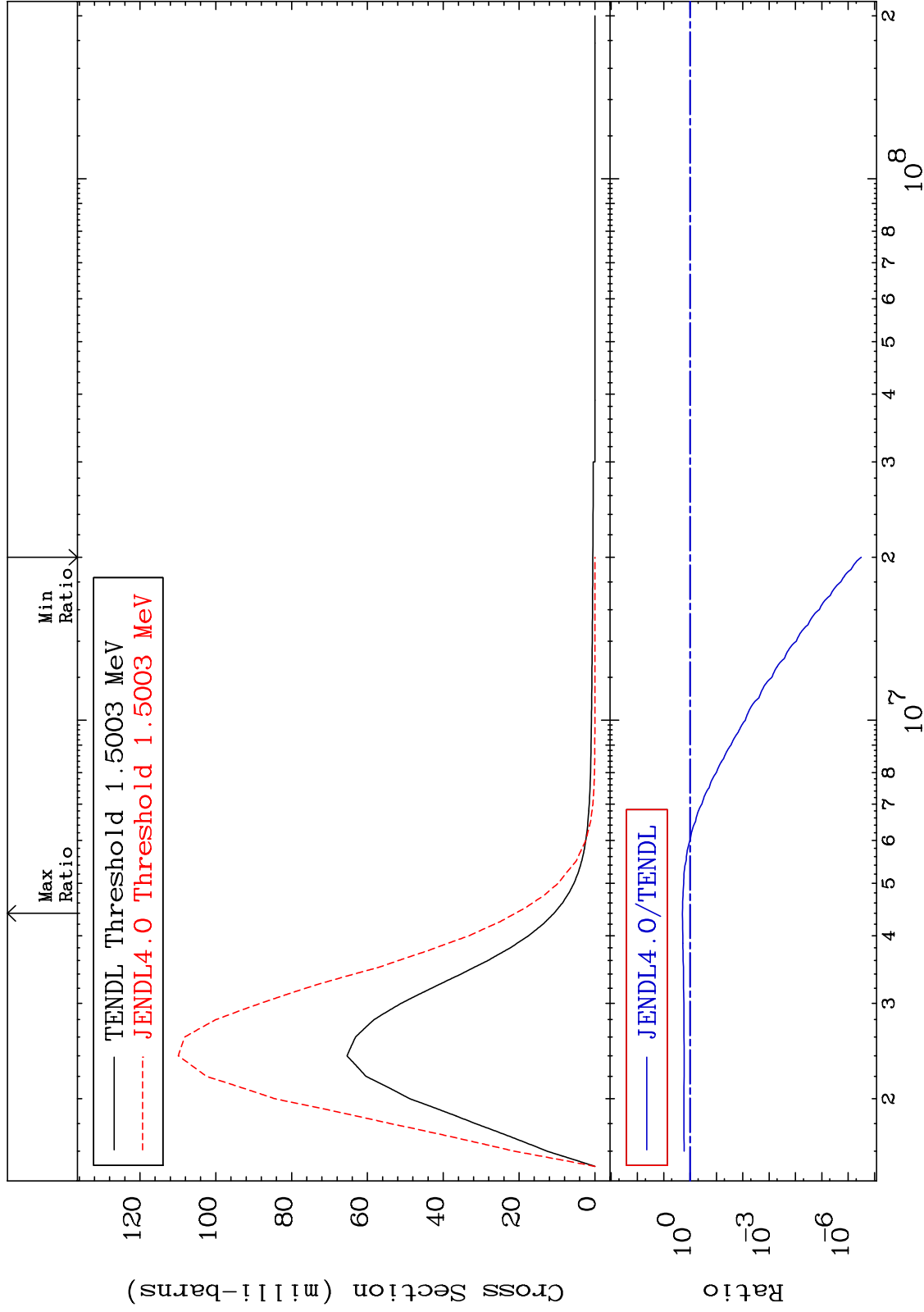
54-Xe-126
-61.56 To 161.1 %



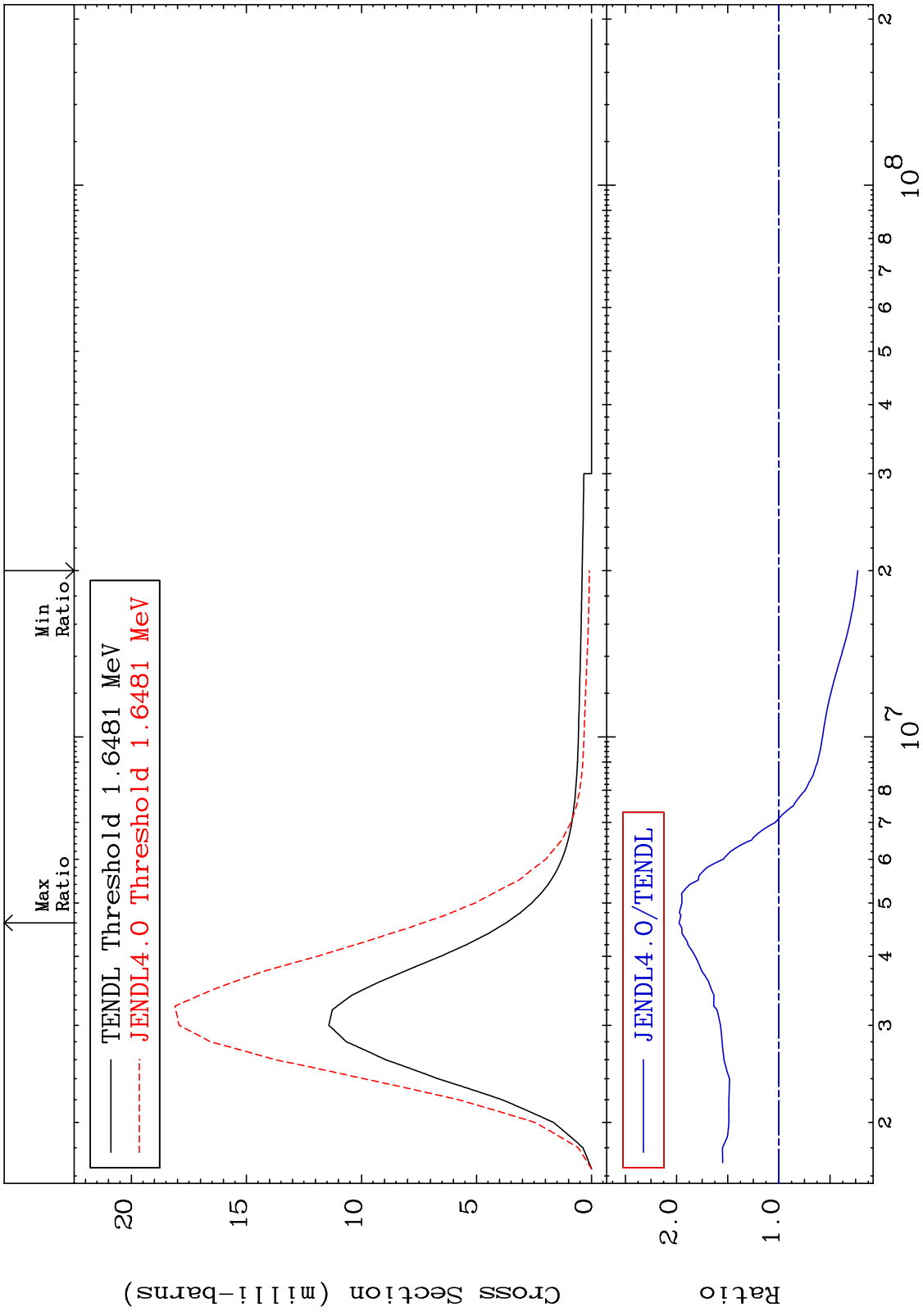
MAT 5431

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

54-Xe-126
-100.0 To 94.96 %



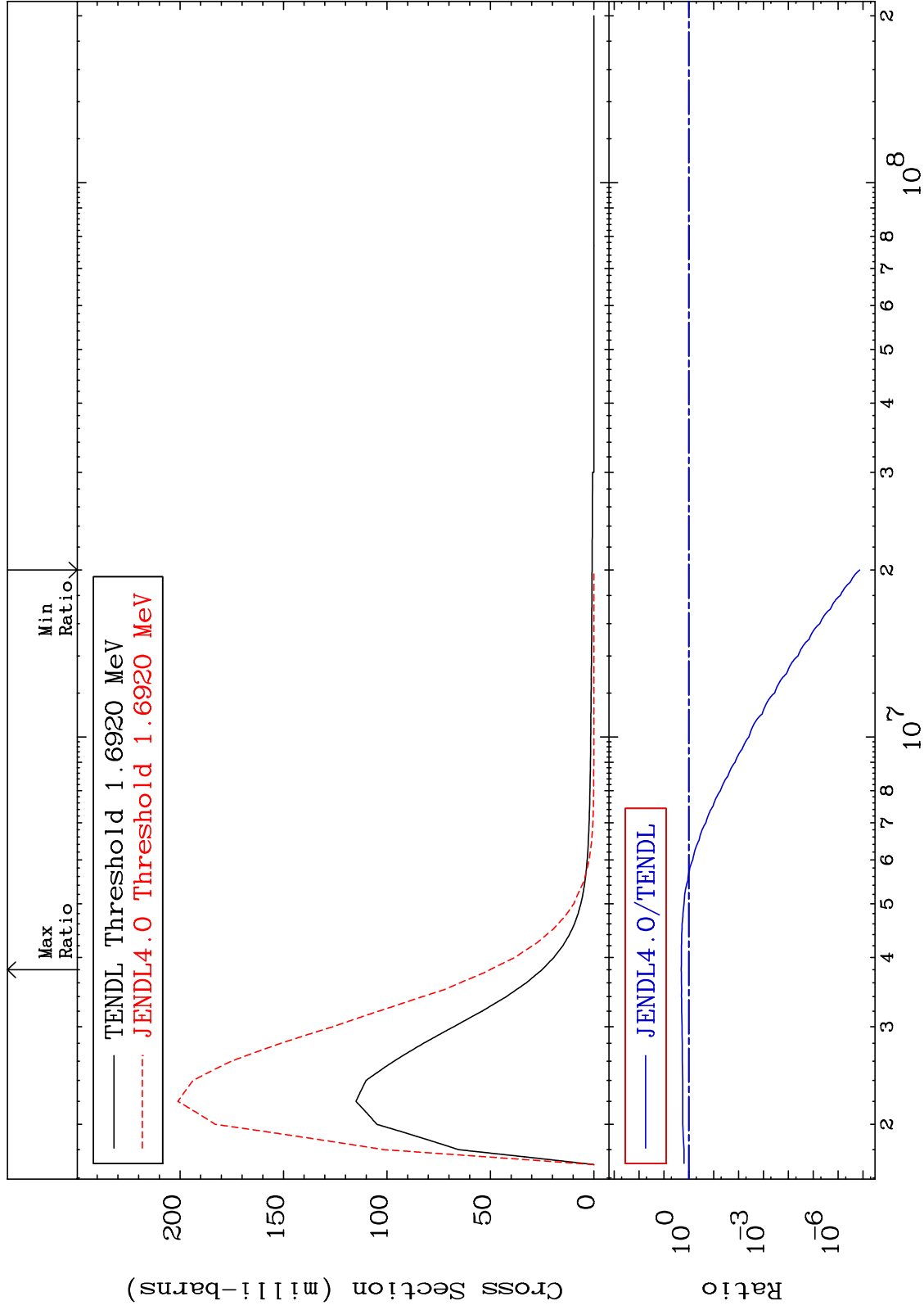
MAT 5431 MT= 57 (n,n') Level Cross Section 54-Xe-126 -77.20 To 97.58 %



MAT 5431

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

54-Xe-126
-100.0 To 100.7 %

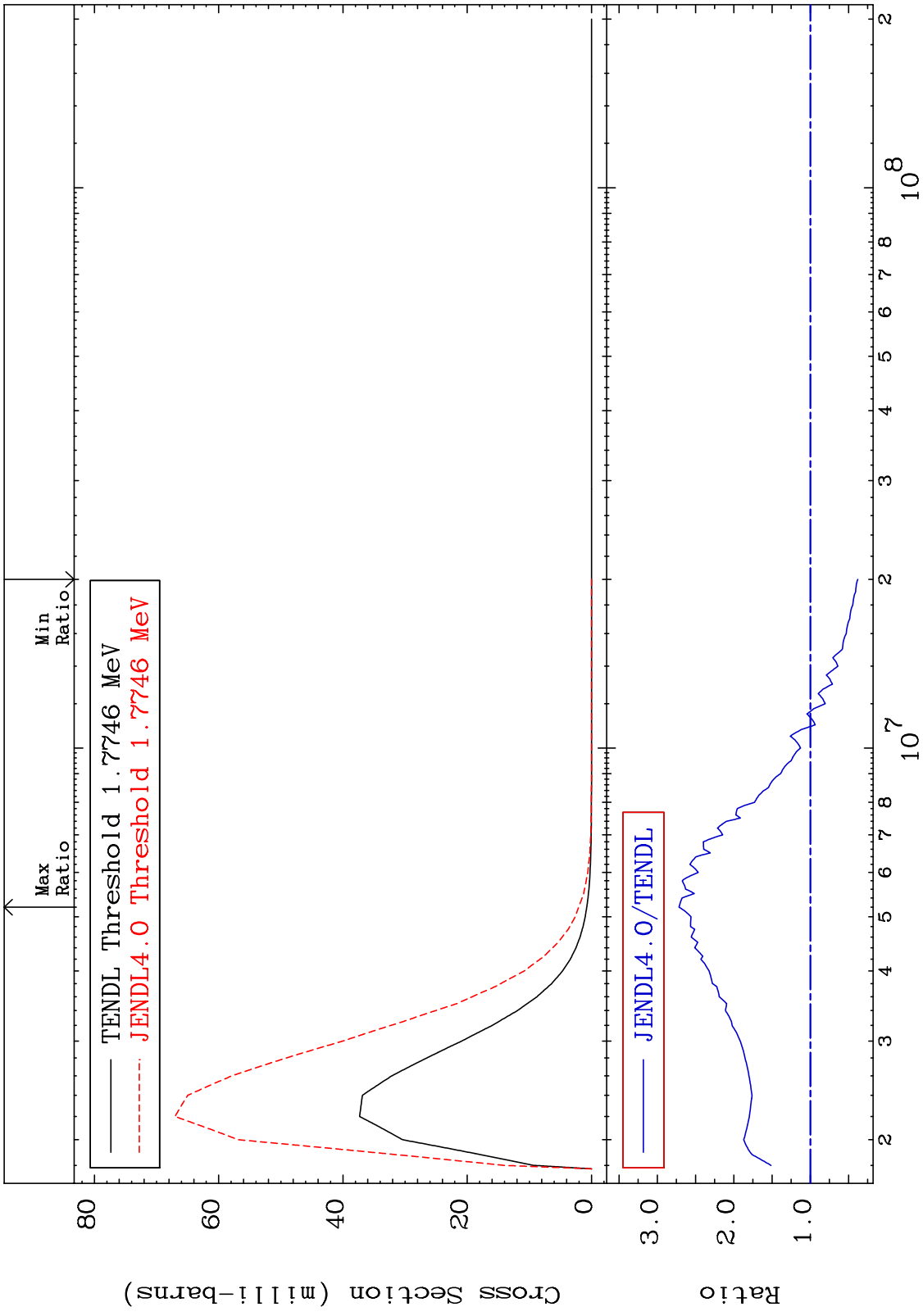


16

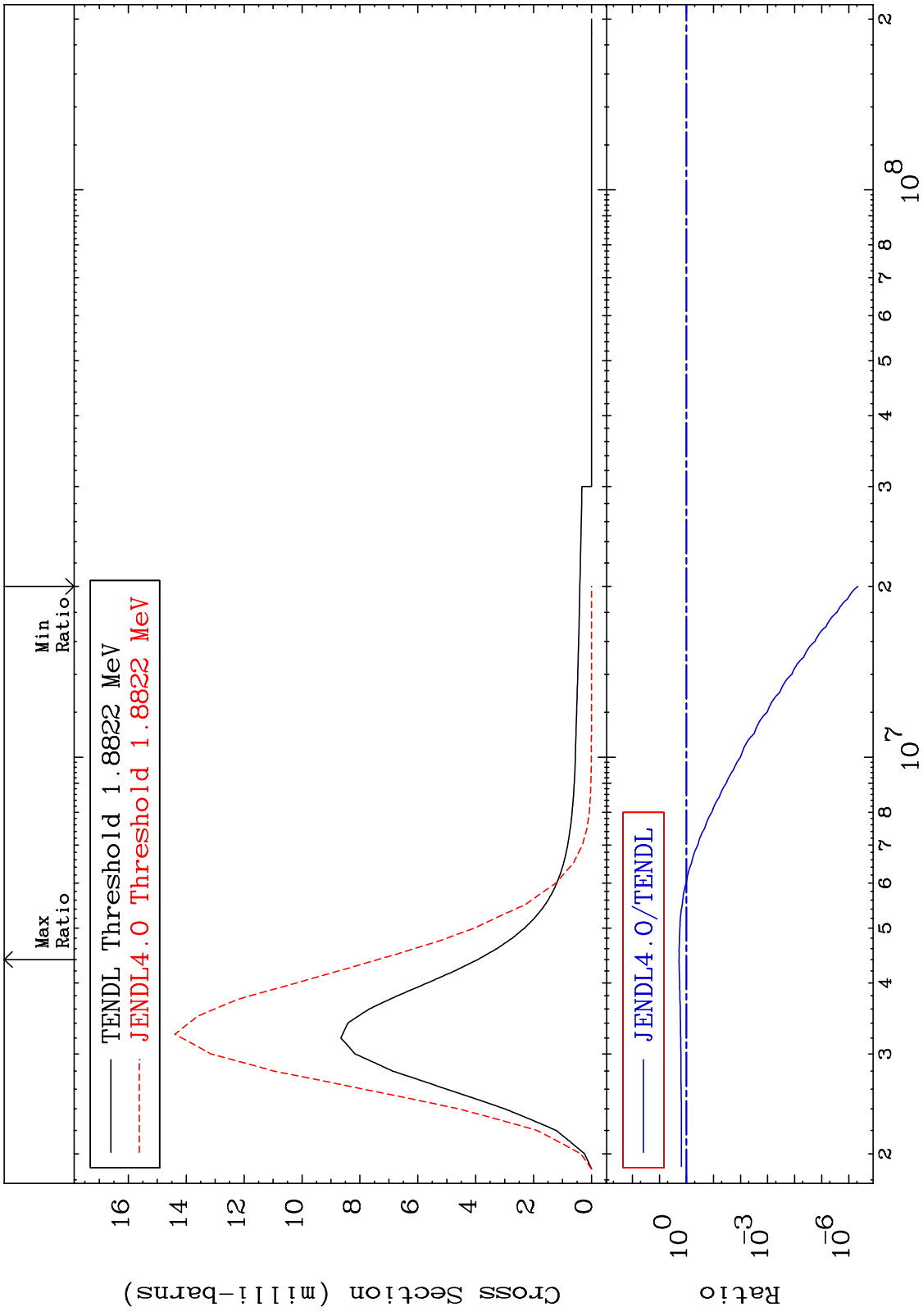
Incident Energy (eV)

54-Xe-126

MAT 5431 MT= 59 (n,n') Level Cross Section 54-Xe-126 -62.08 To 171.5 %



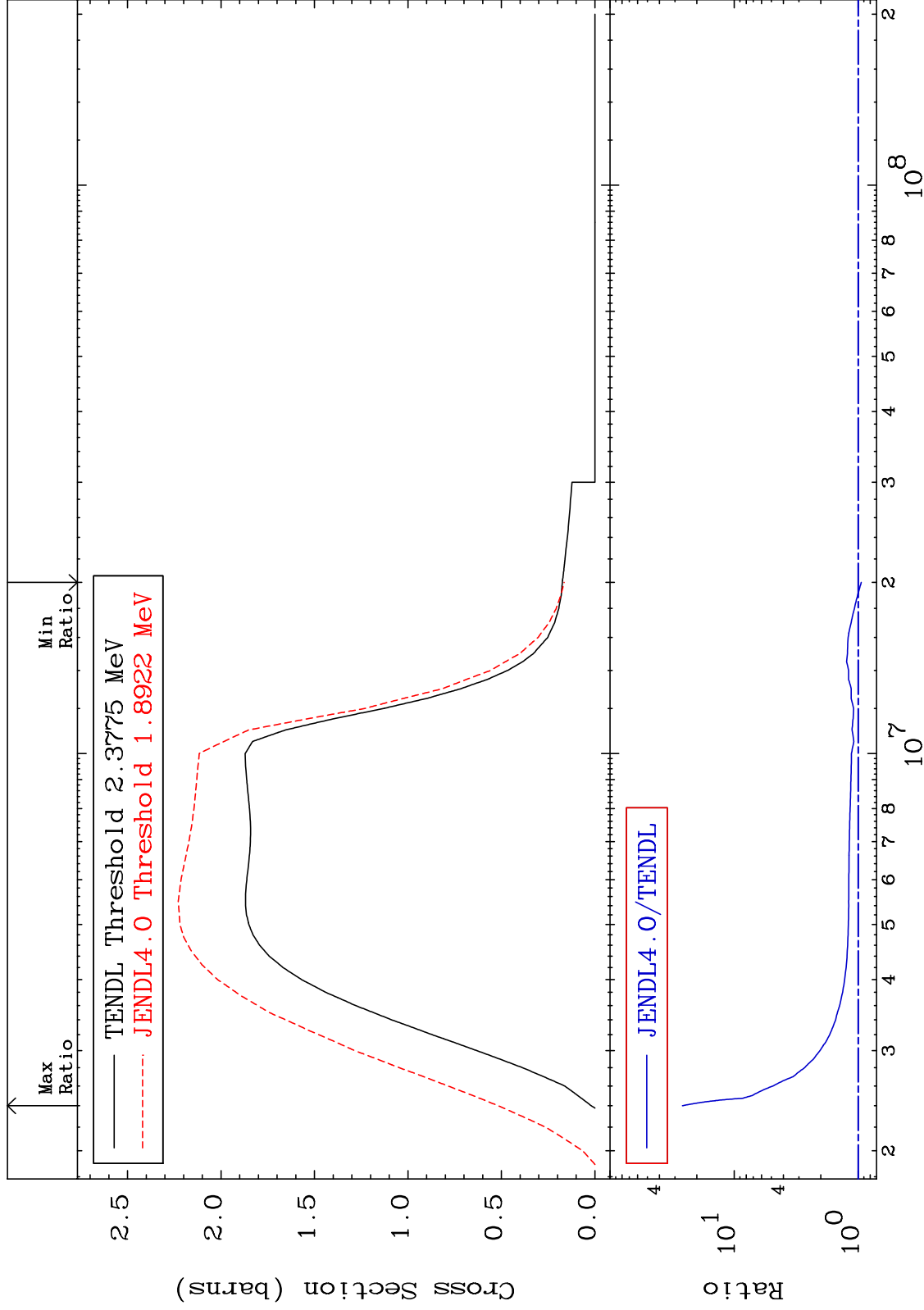
MAT 5431 MT= 60 (n,n') Level Cross Section 54-Xe-126 -100.0 To 88.08 %



MAT 5431

(n, n') Continuum
Cross Section

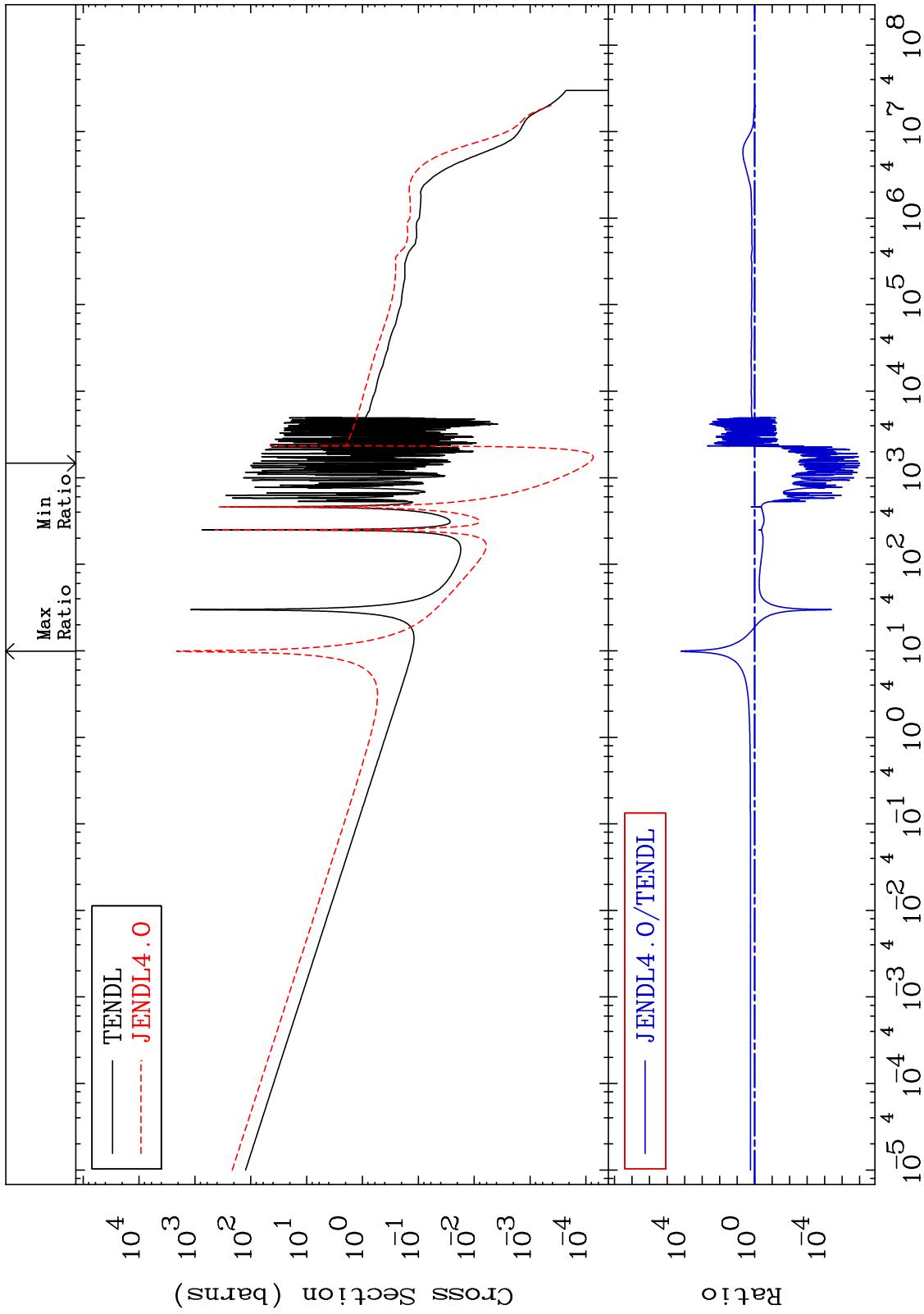
54-Xe-126
-5.686 To 2510. %



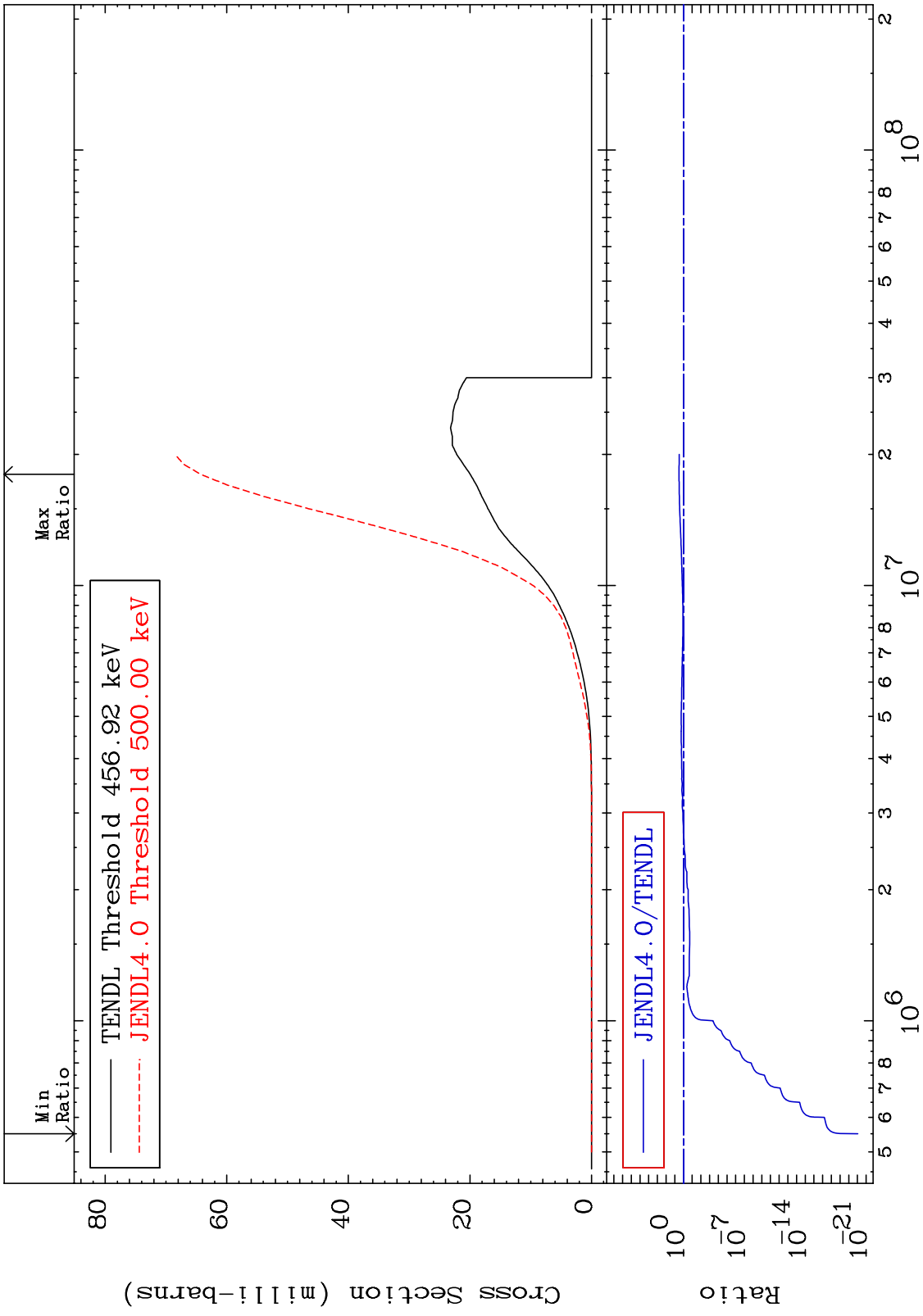
MAT 5431

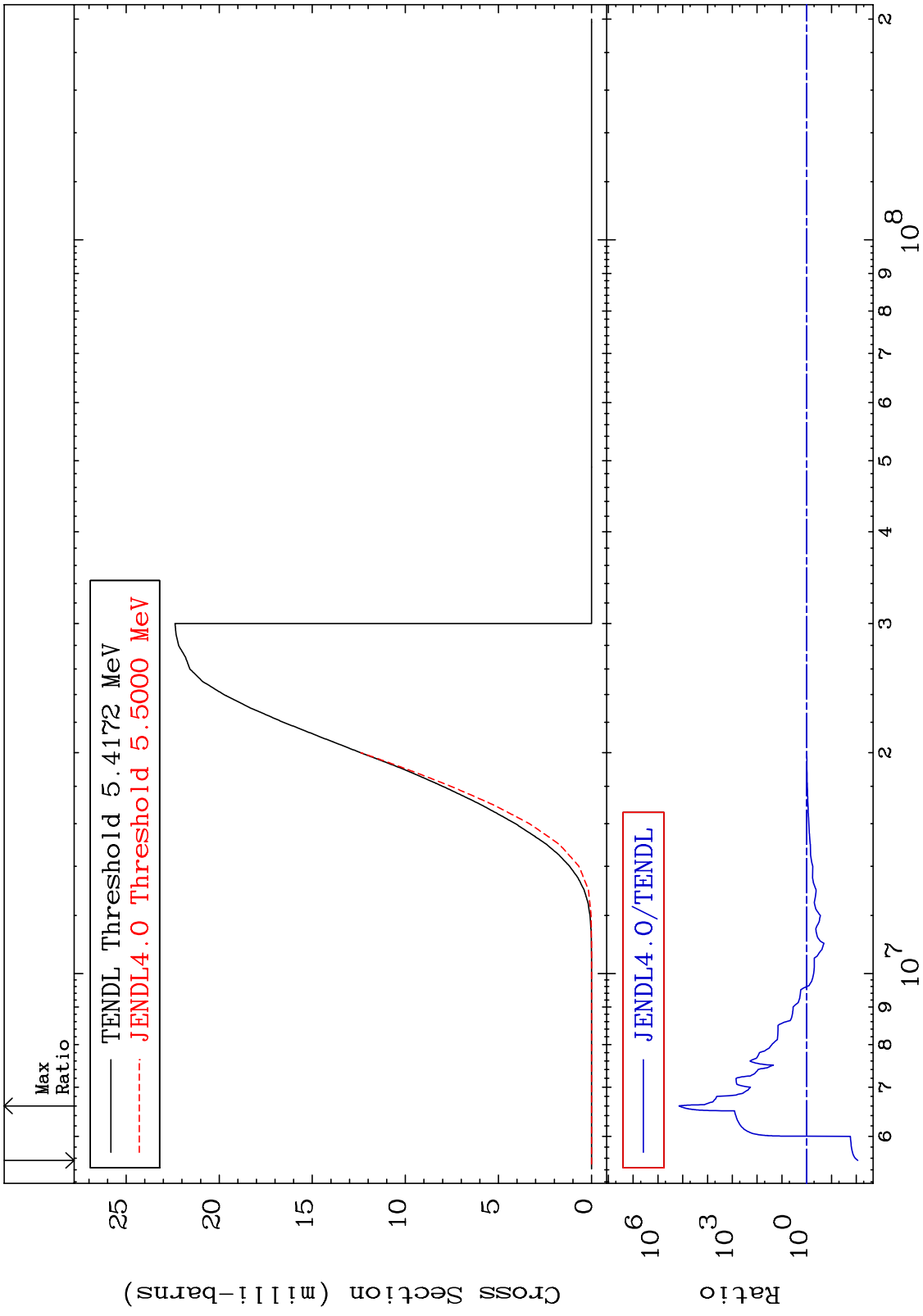
(n, γ)
Cross Section
-100.0 To 9999. %

54-Xe-126

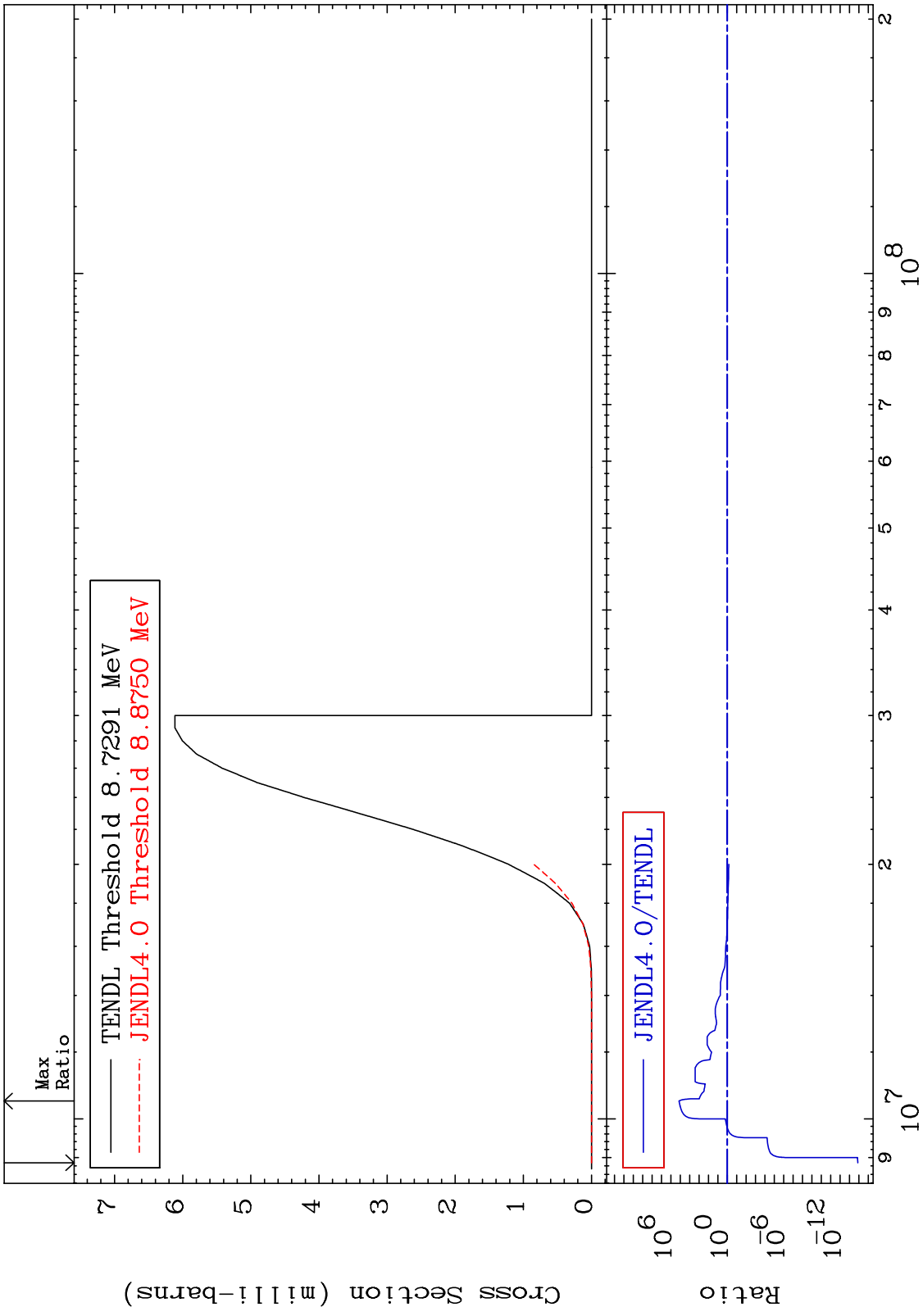


MAT 5431 (n,p) Cross Section 54-Xe-126 -100.0 To 222.3 %





MAT 5431 (n,t) 54-Xe-126
 Cross Section -100.0 To 9999. %



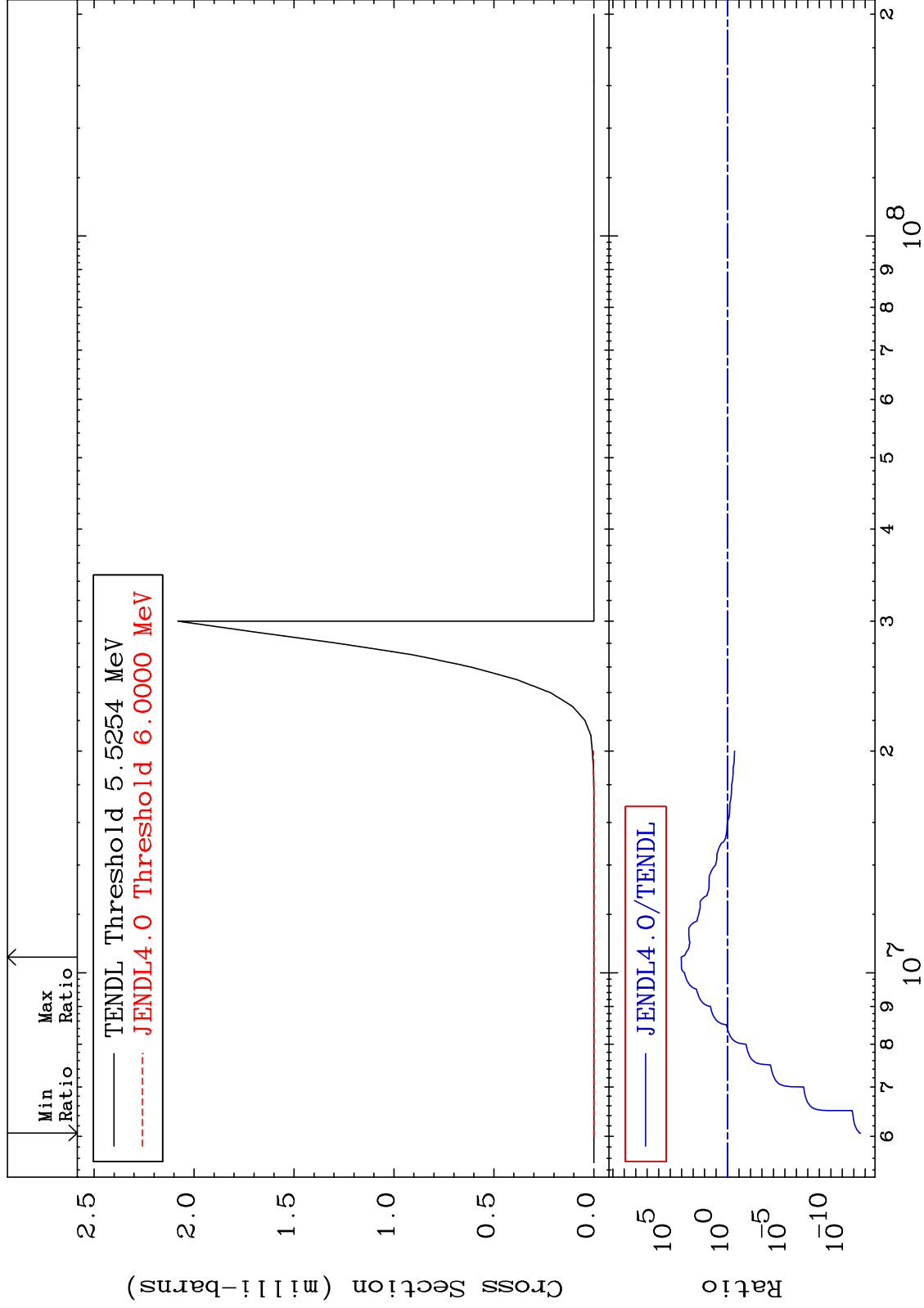
MAT 5431

(n,He-3)

54-Xe-126

-100.0 To 9999. %

Cross Section



24

Incident Energy (eV)

54-Xe-126

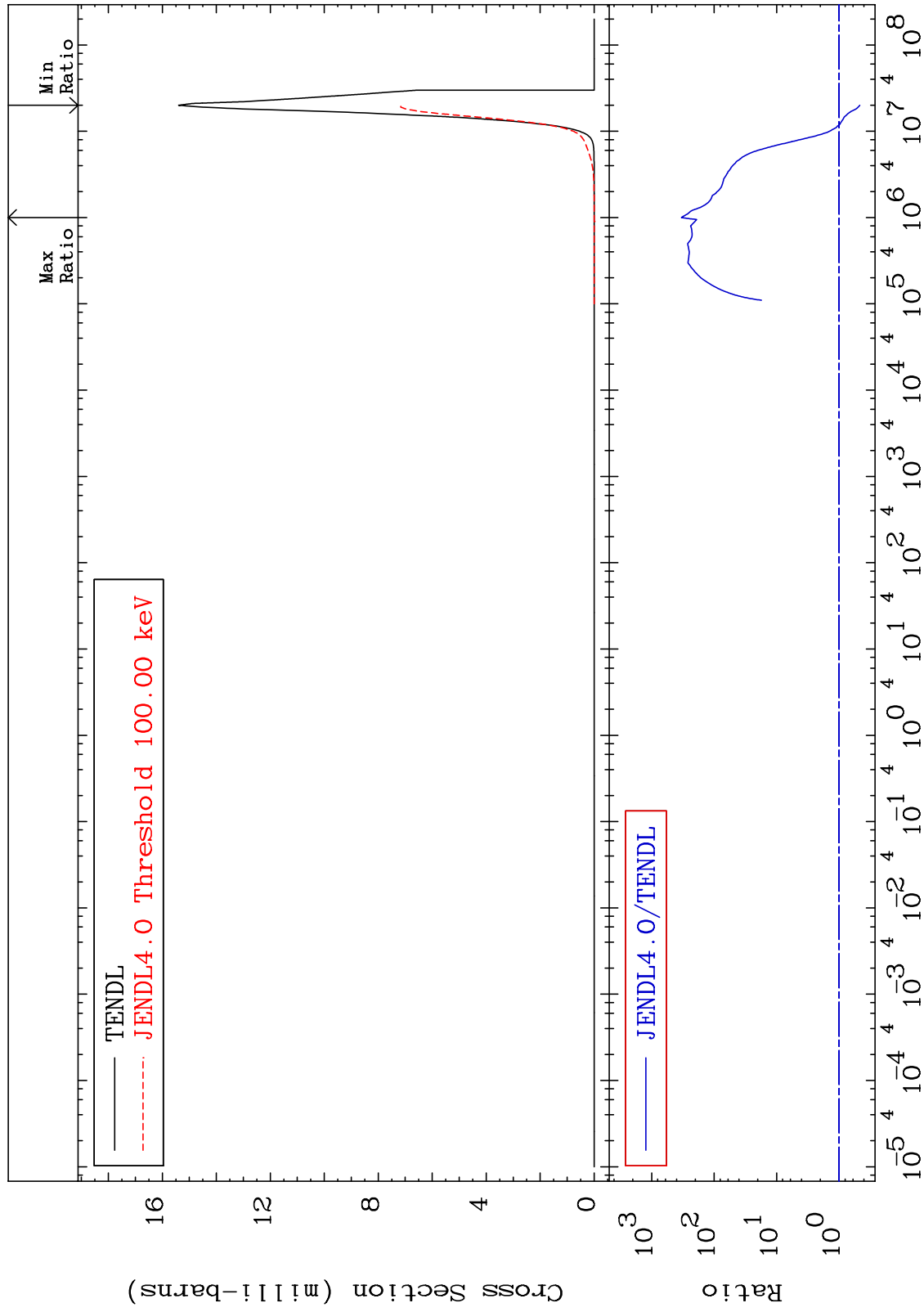
MAT 5431

(n, α)

54-Xe-126

Cross Section

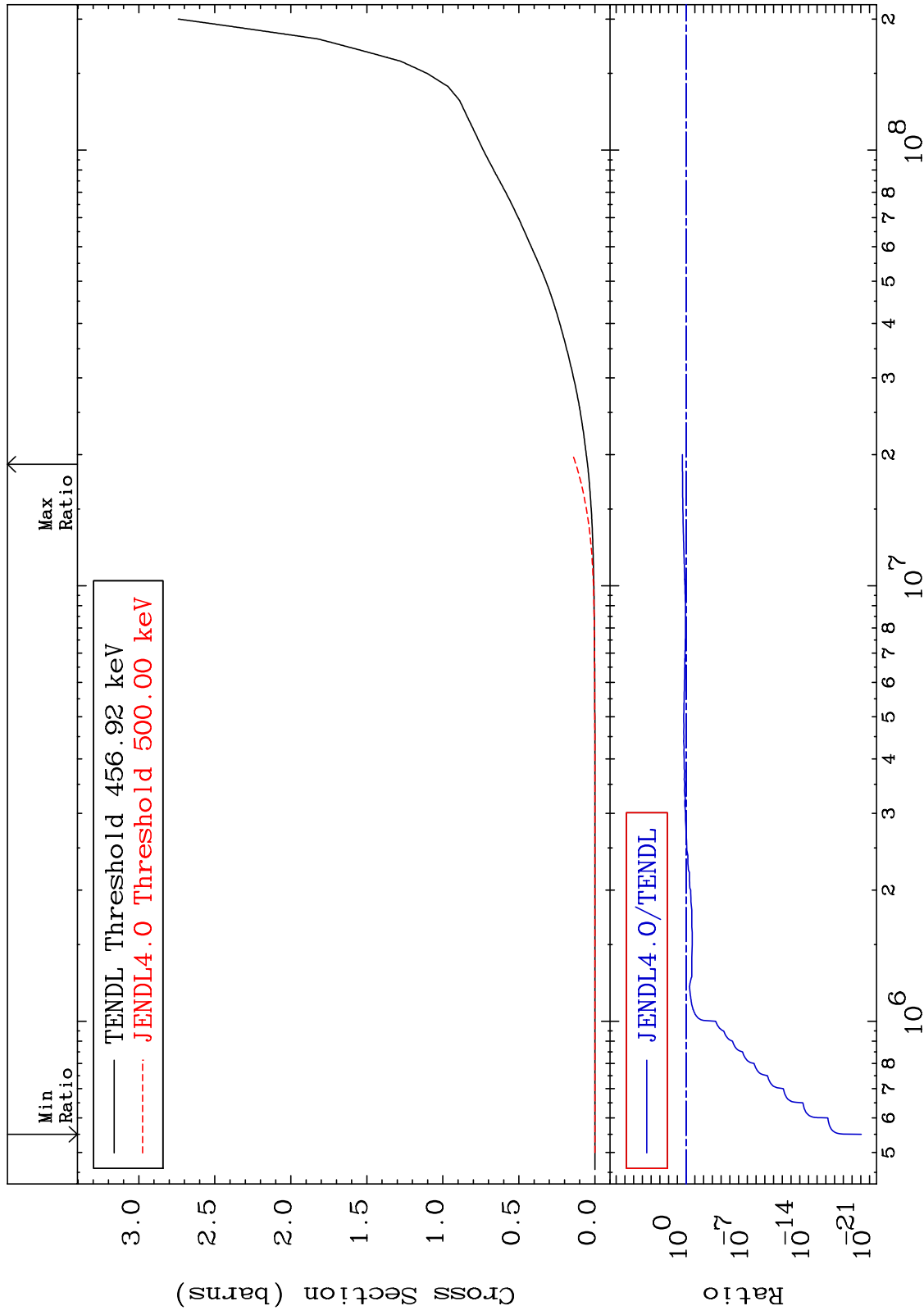
-53.42 To 9999. %



MAT 5431

Hydrogen Production
Cross Section

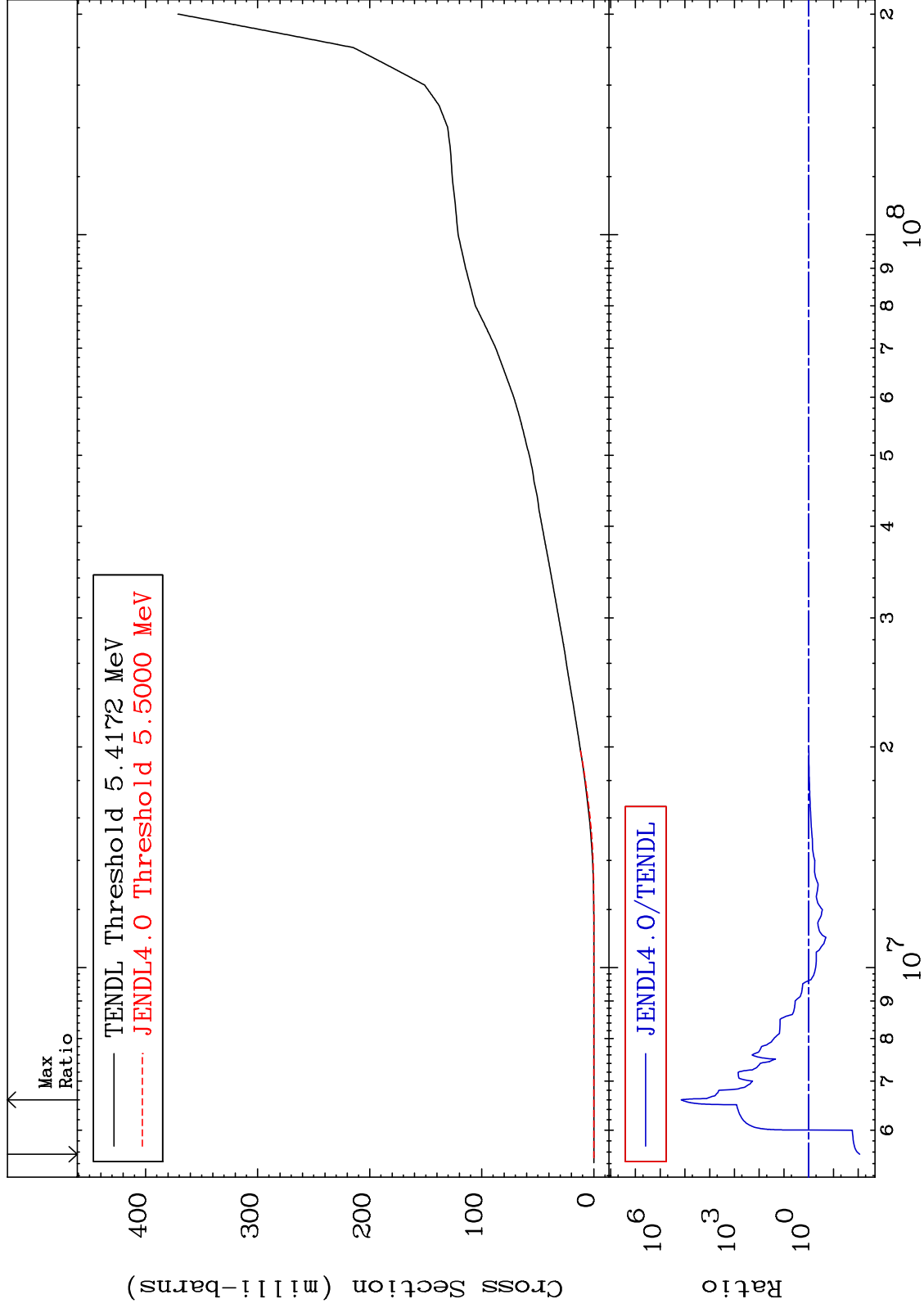
54-Xe-126
-100.0 To 157.4 %



MAT 5431

Deuterium Production
Cross Section

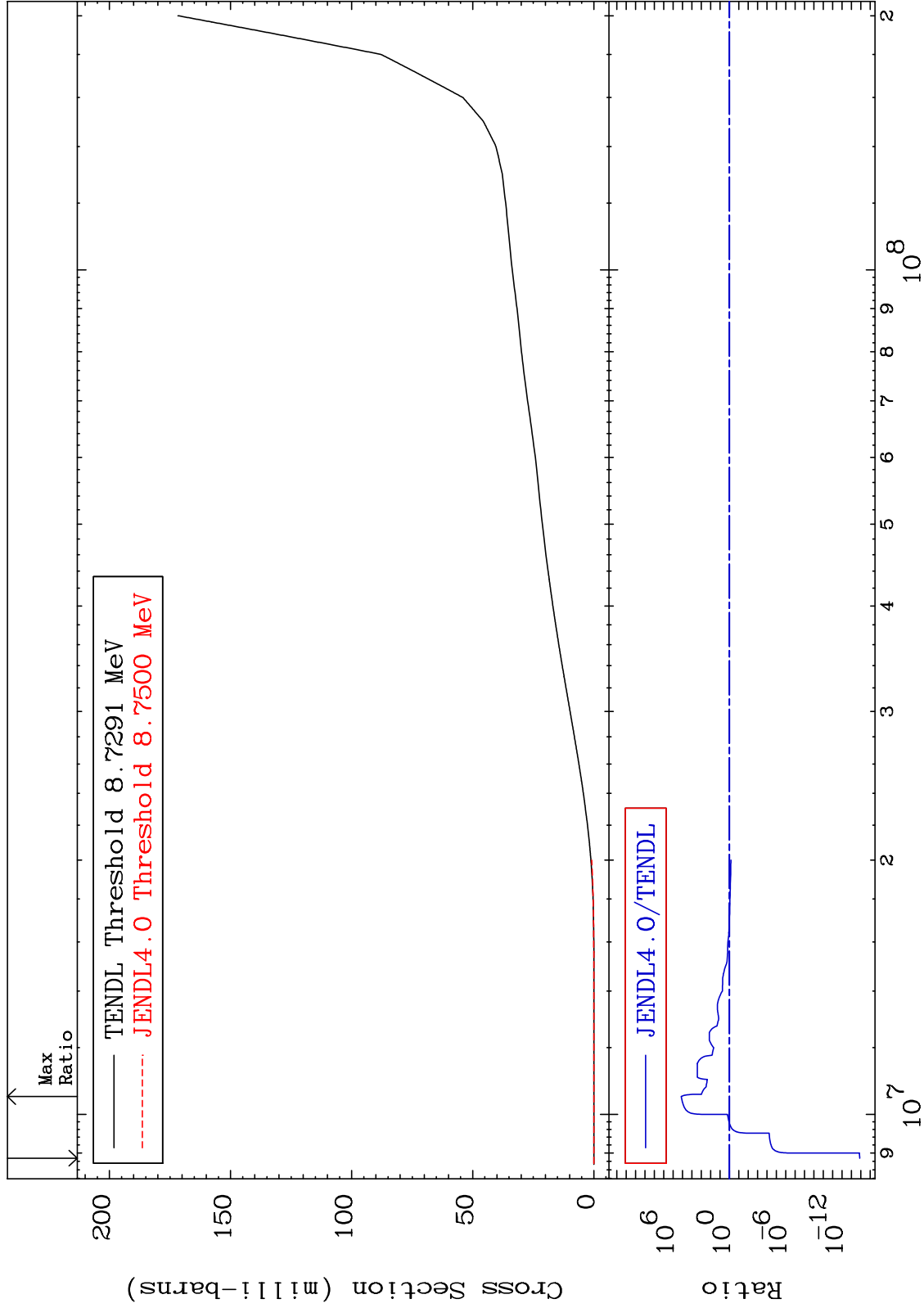
54-Xe-126
-99.13 To 9999. %



MAT 5431

Tritium Production
Cross Section

54-Xe-126
-100.0 To 9999. %



28

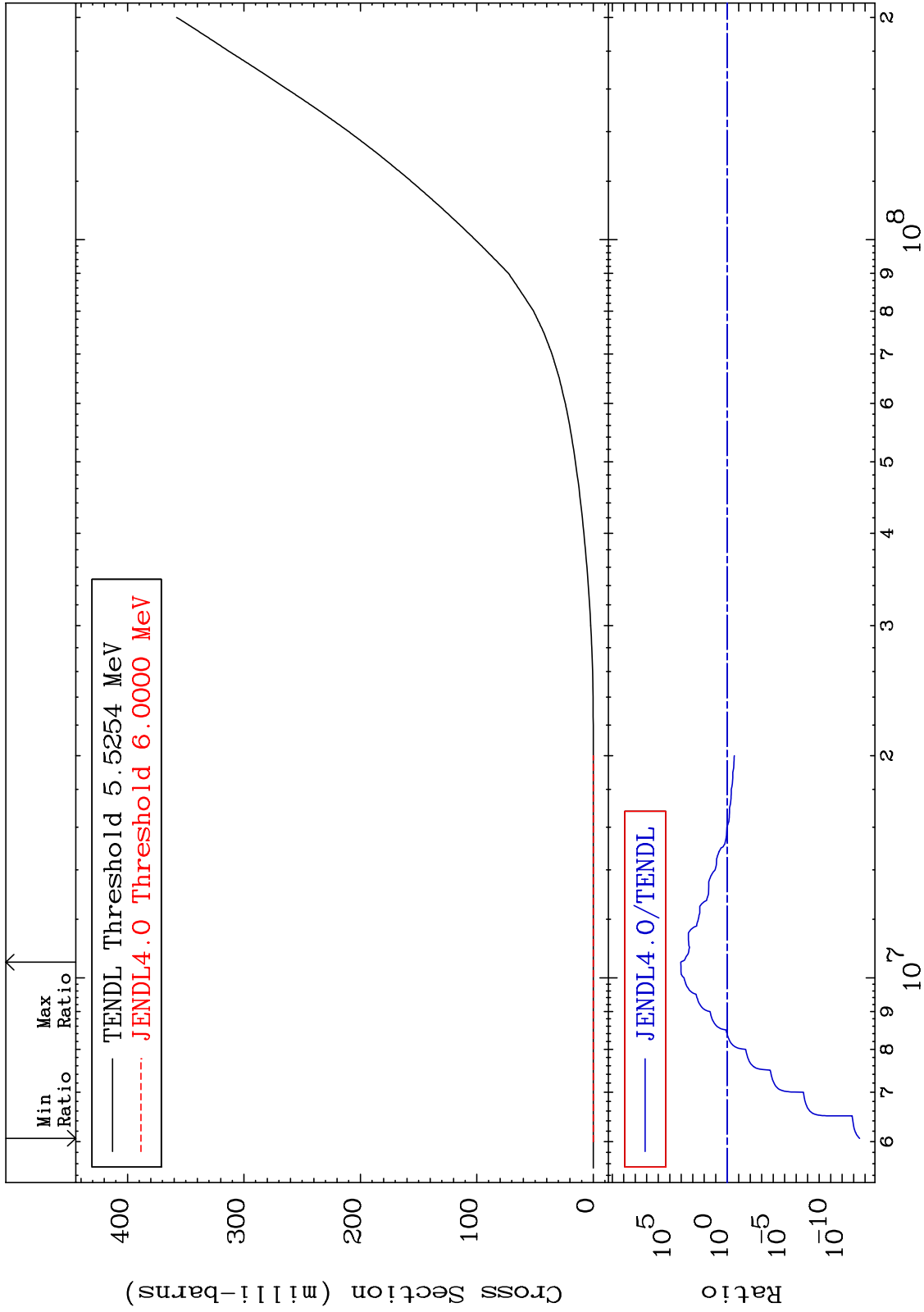
Incident Energy (eV)

54-Xe-126

MAT 5431

He-3 Production
Cross Section

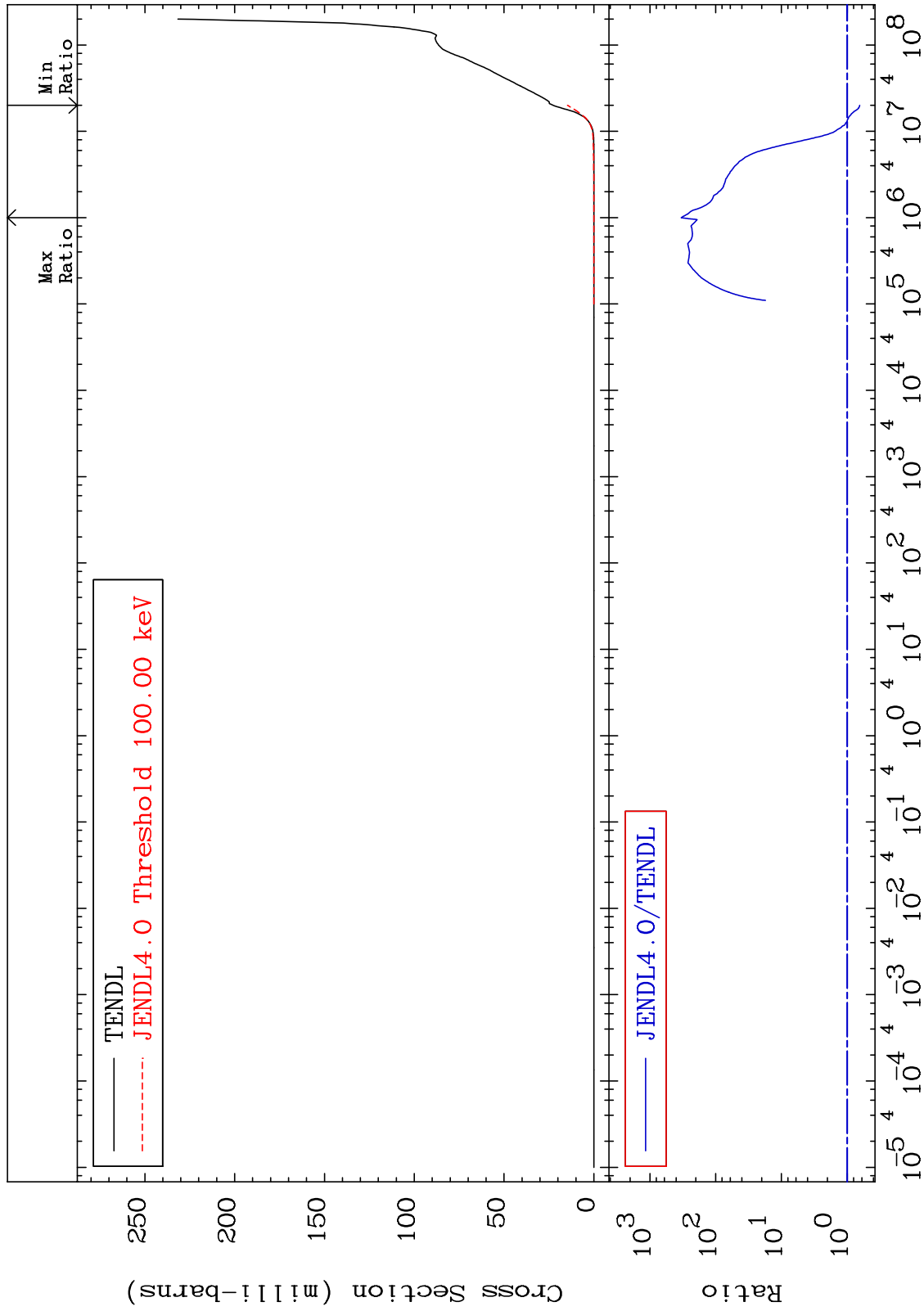
54-Xe-126
-100.0 To 9999. %



MAT 5431

He-4 Production
Cross Section

54-Xe-126
-35.46 To 9999. %

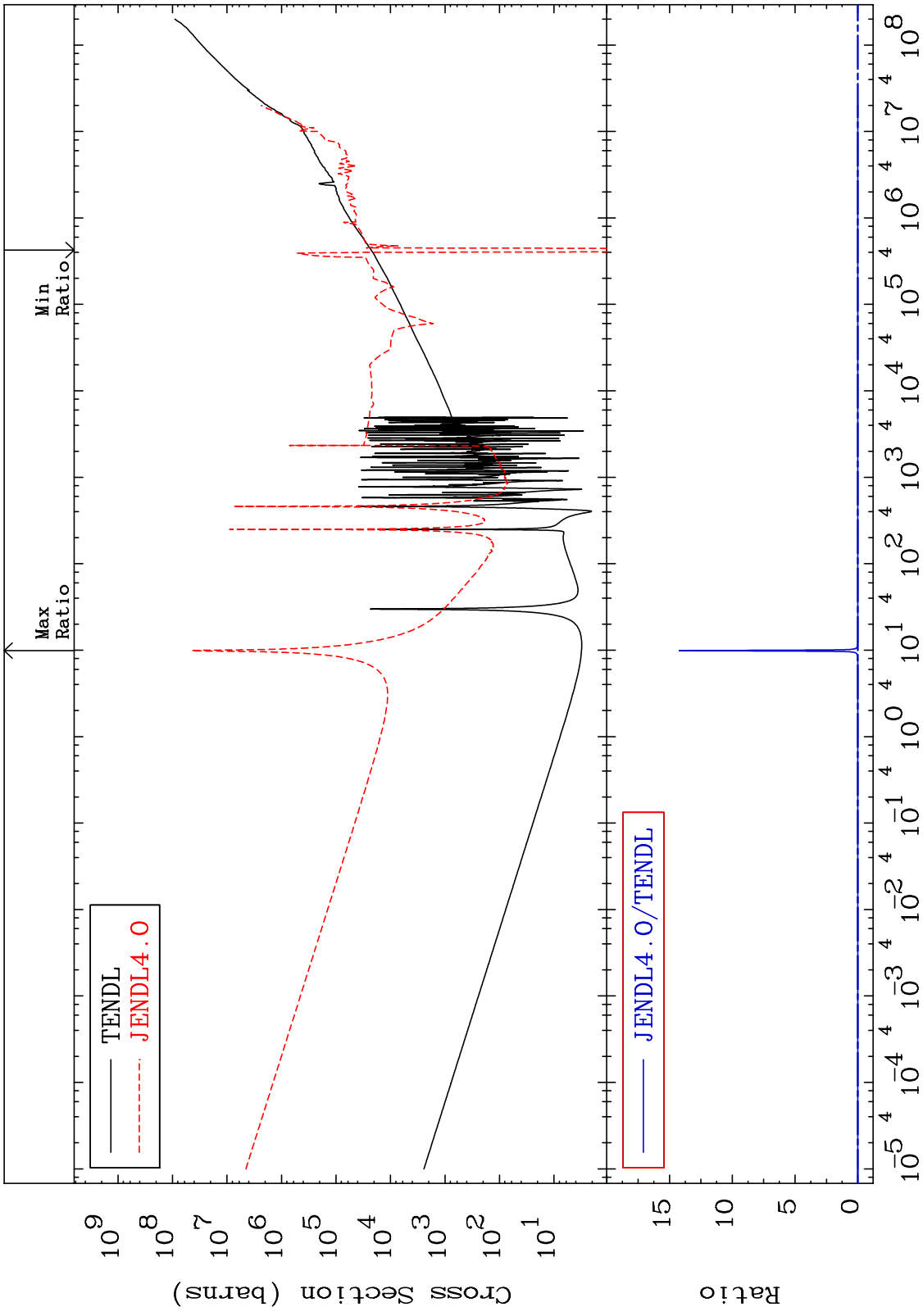


30

Incident Energy (eV)

54-Xe-126

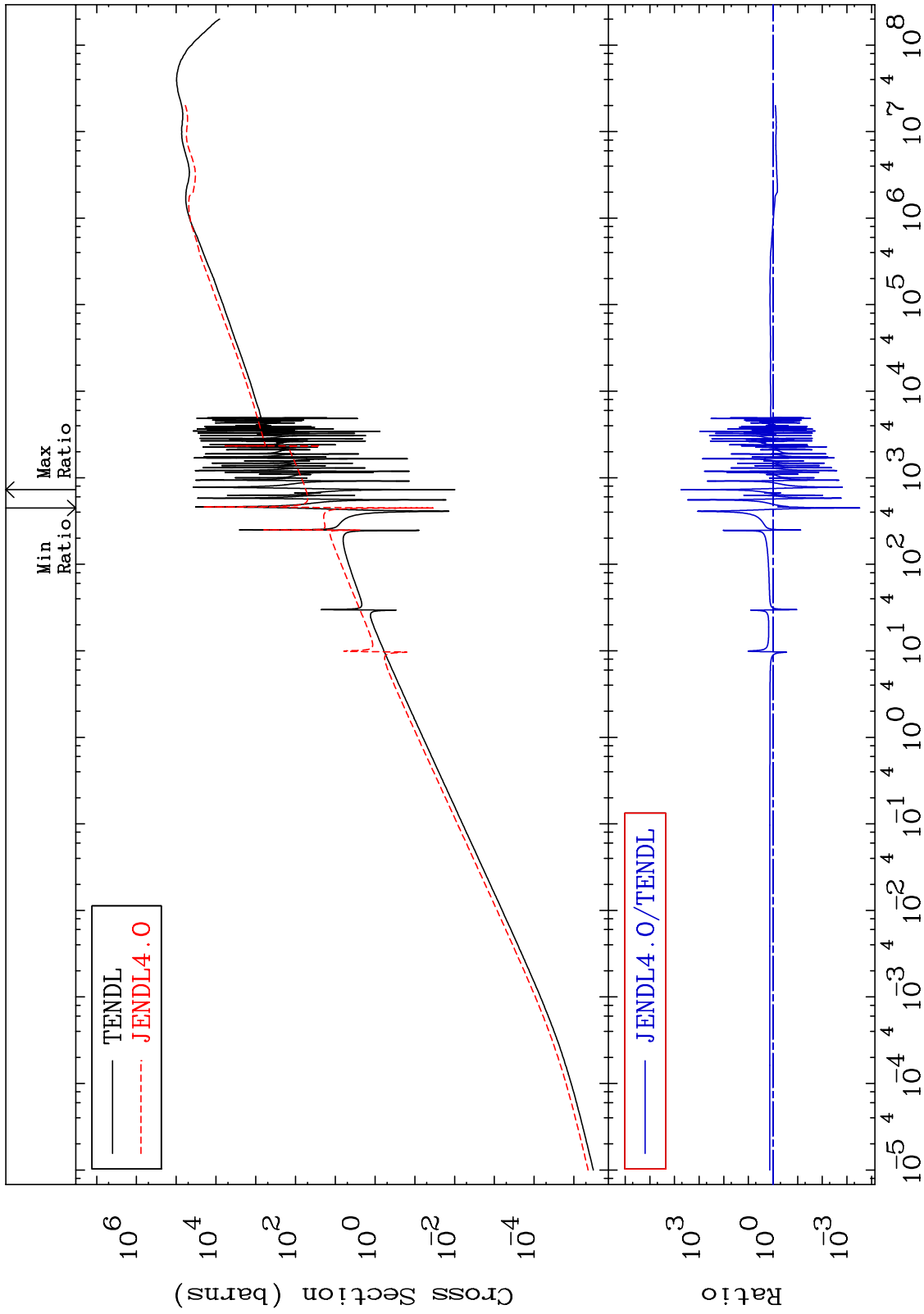
MAT 5431 Kerma total (eV-barns) 54-Xe-126
 Cross Section -398.8 To 9999. %



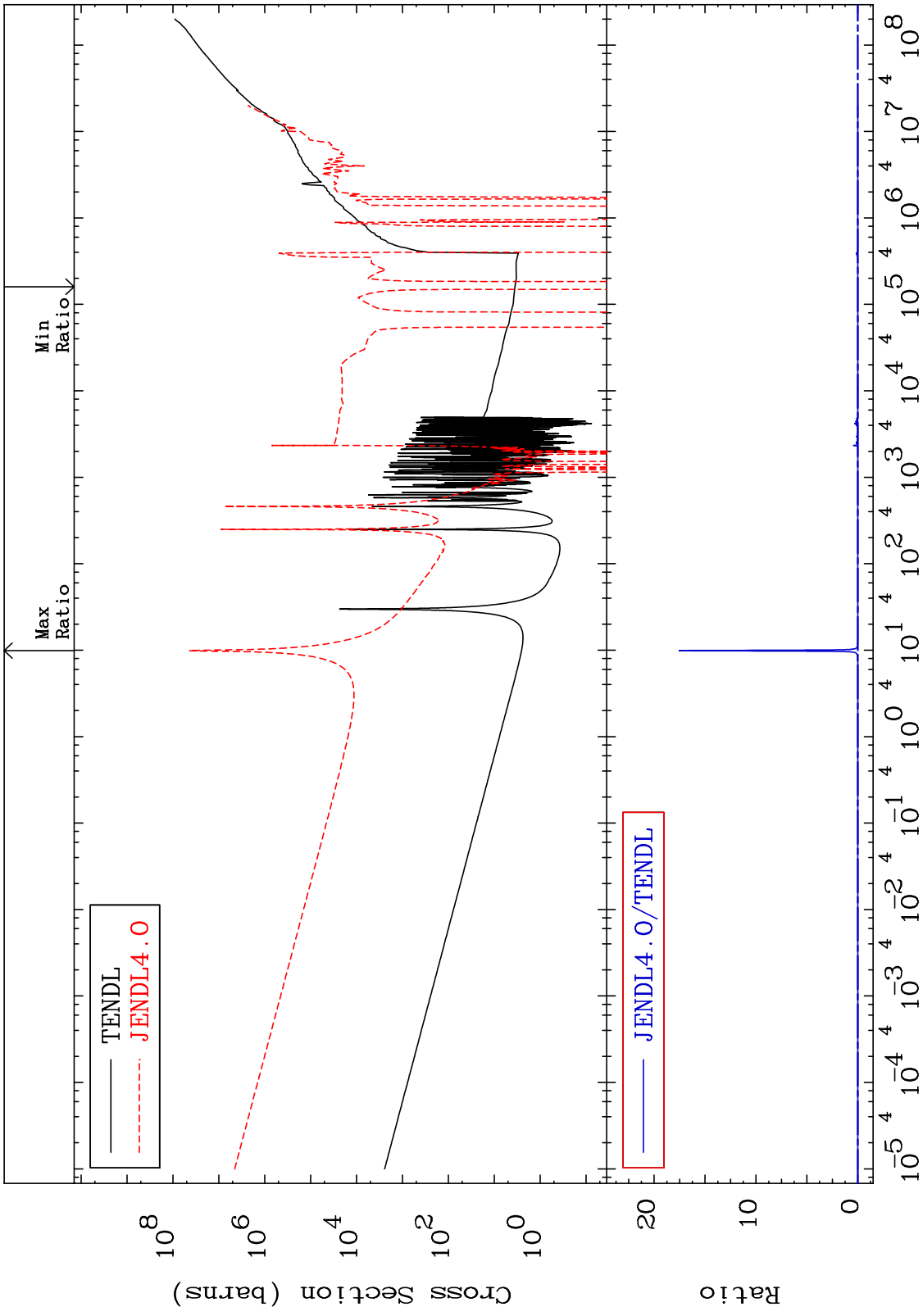
MAT 5431

Kerma elastic
Cross Section

54-Xe-126
-99.97 To 9999. %

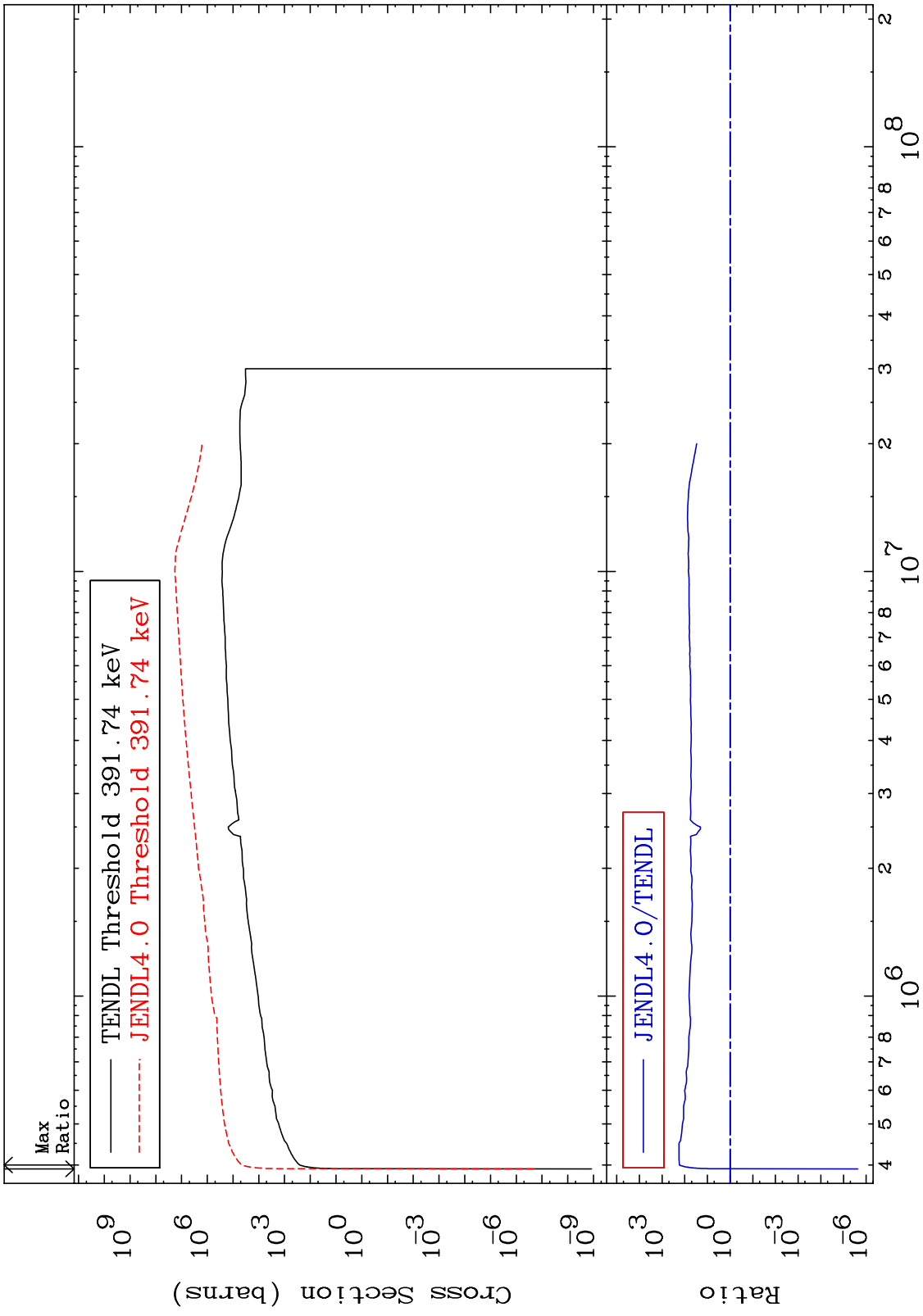


MAT 5431 Kerma non-elastic (all but mt2) 54-Xe-126
 -9999. To 9999. %
 Cross Section



33 Incident Energy (eV) 54-Xe-126

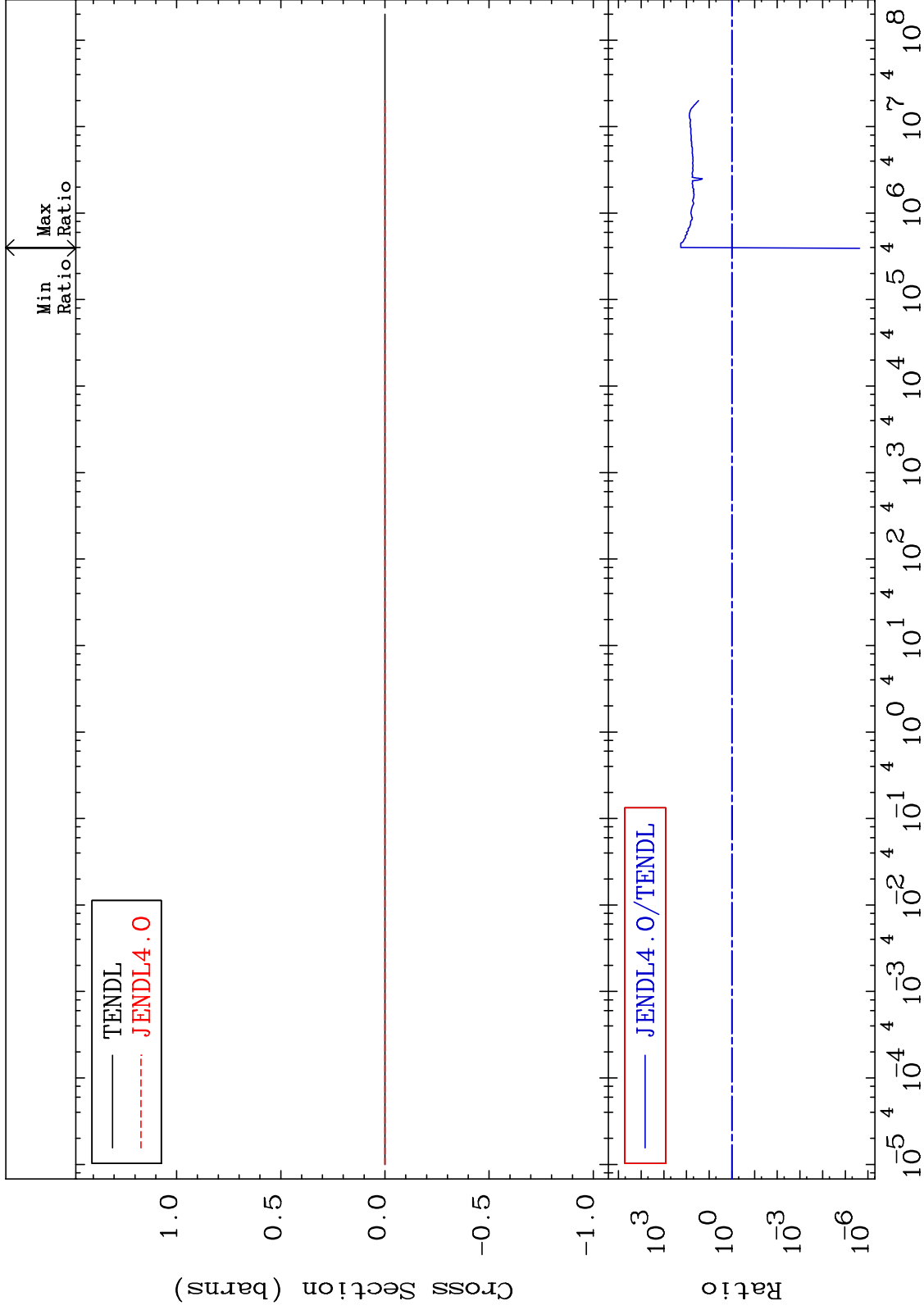
MAT 5431 Kerma inelastic (mt51-91) 54-Xe-126
 -100.0 To 9999. %
 Cross Section



MAT 5431

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

54-Xe-126
-100.0 To 9999. %

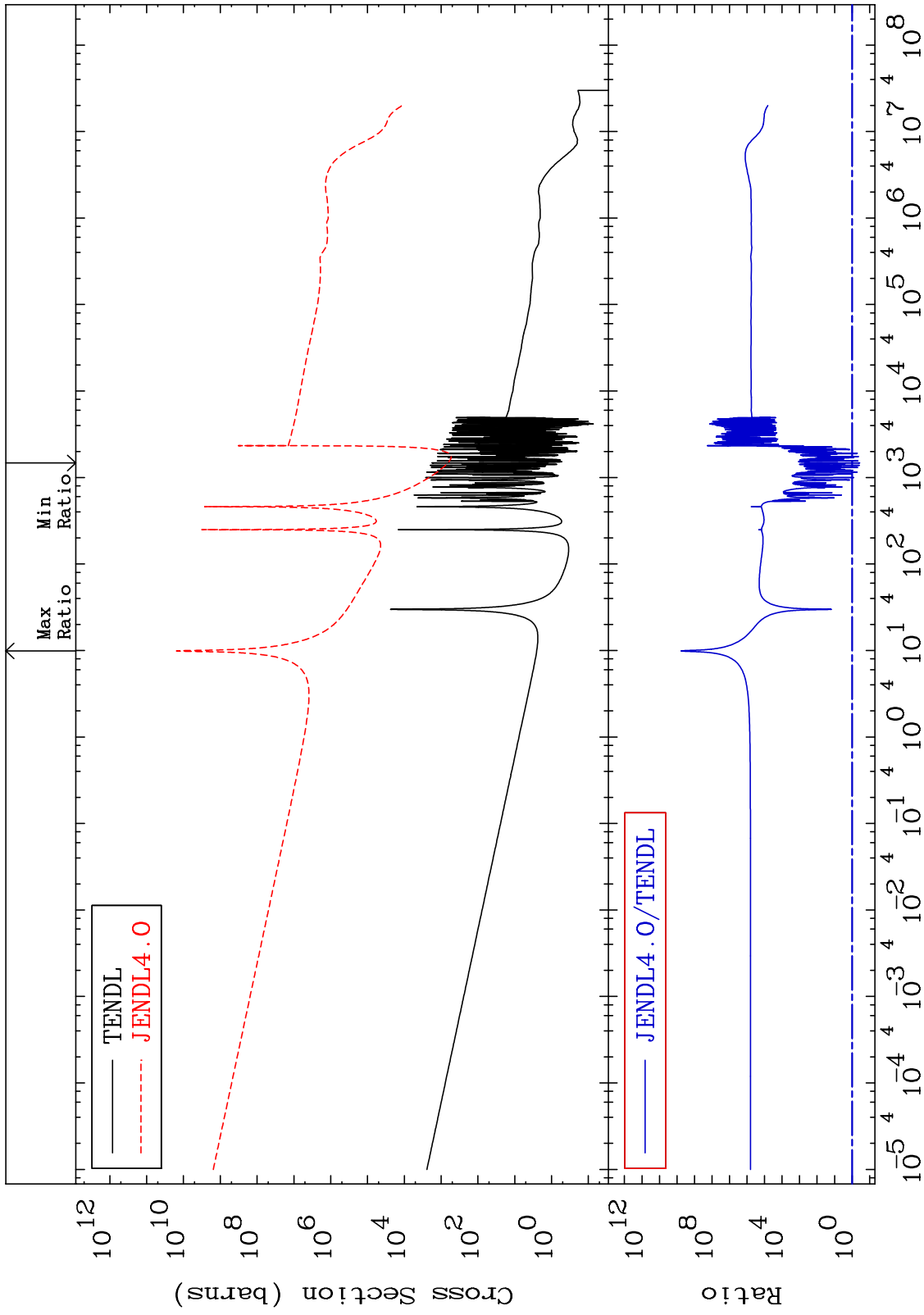


MAT 5431

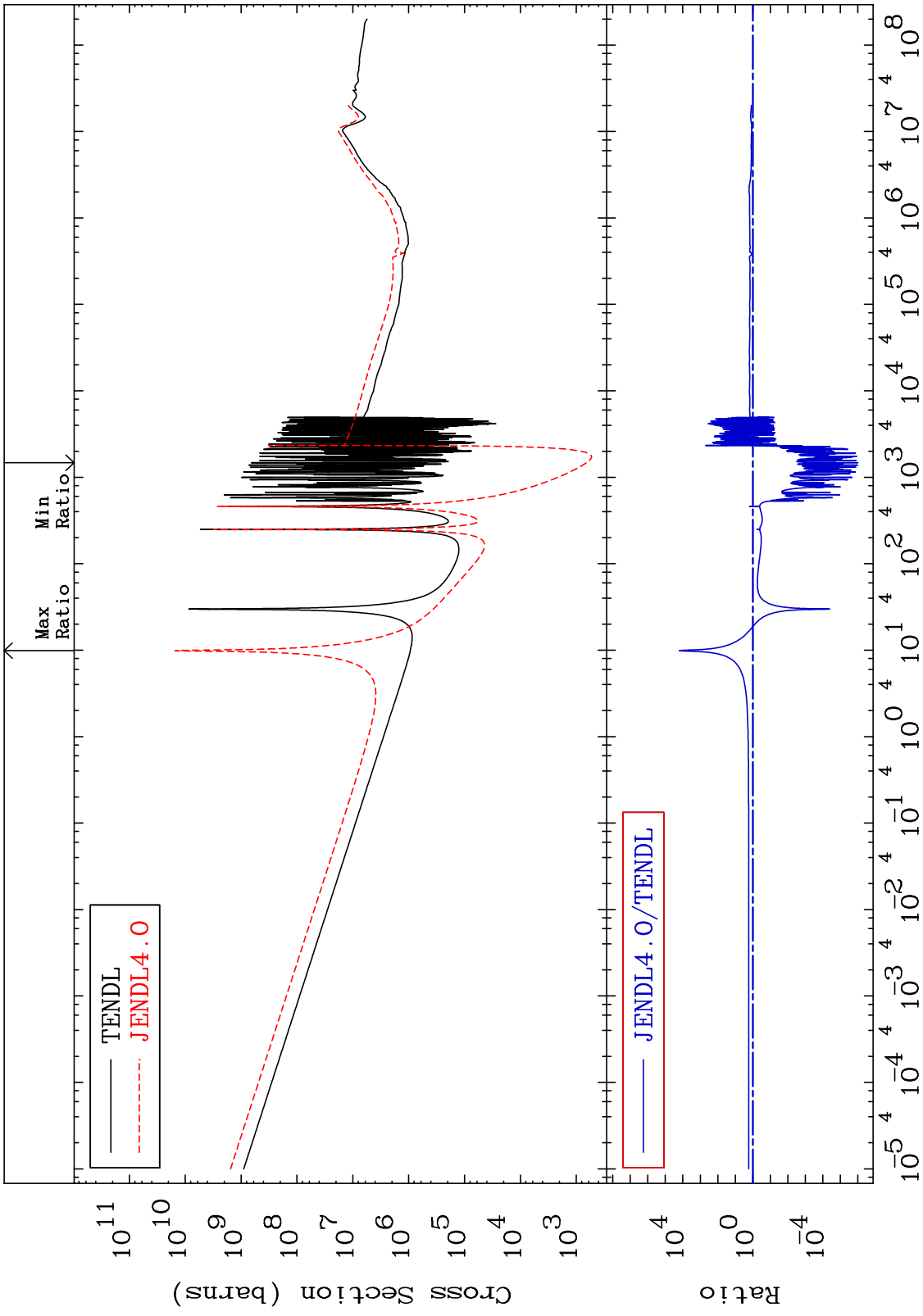
Kerma capture (mt102)
Cross Section

54-Xe-126

-62.95 To 9999. %



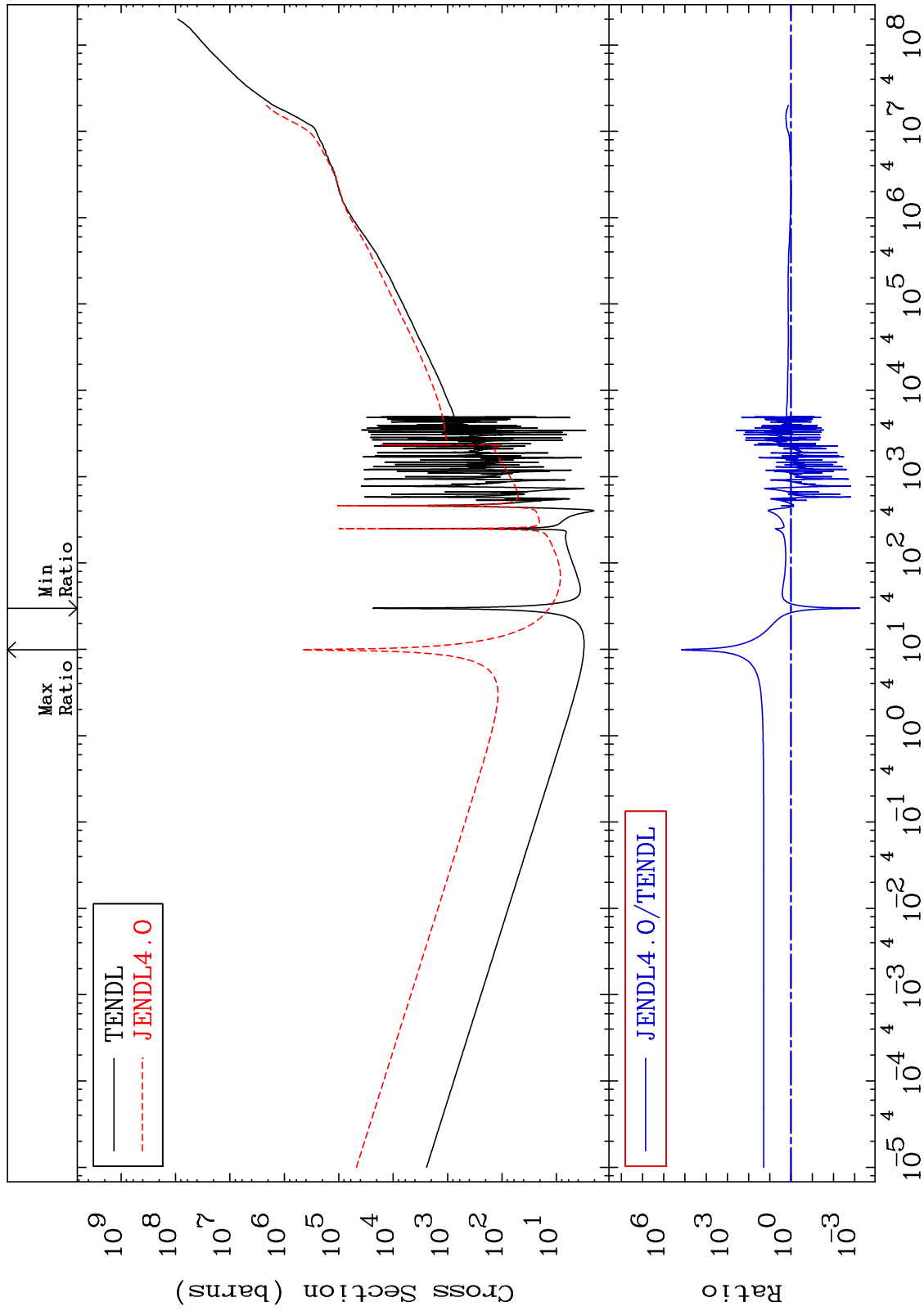
MAT 5431 Total photon (eV-barns) 54-Xe-126
 -100.0 To 9999. %



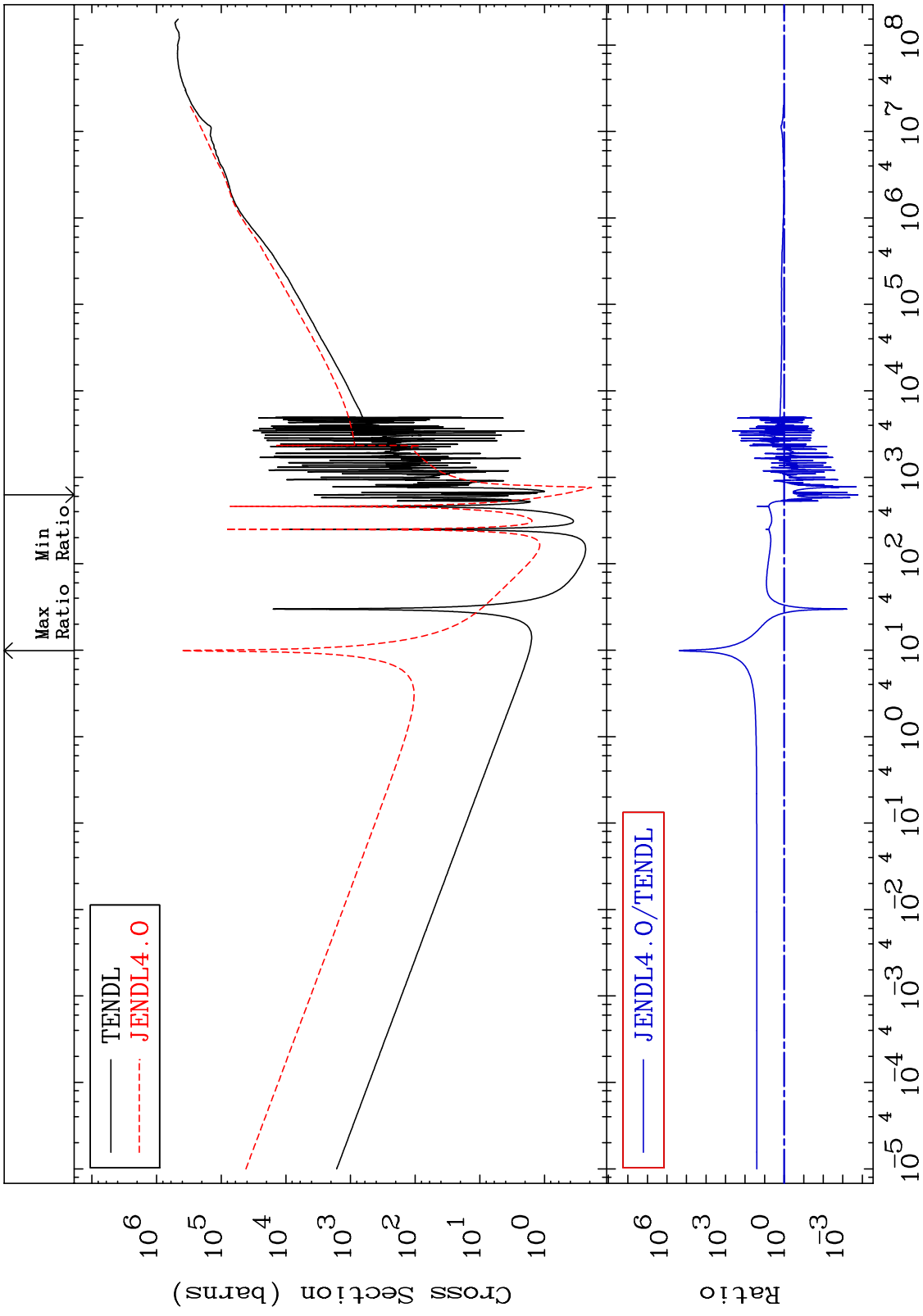
MAT 5431

Total kinematic kerma (high limit)
Cross Section

54-Xe-126
-99.94 To 9999. %



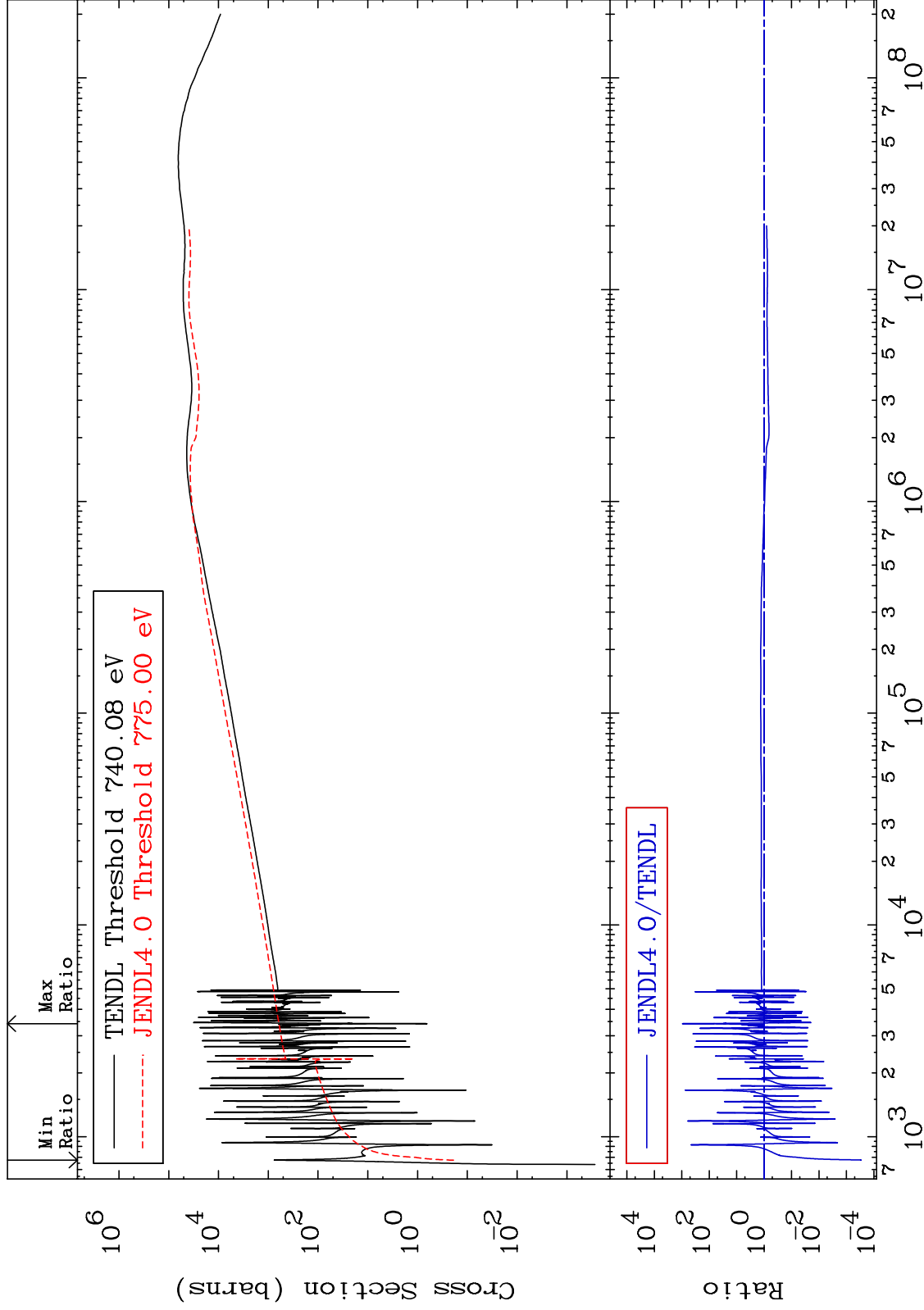
MAT 5431 Dpa total (eV-barns) 54-Xe-126
 Cross Section -99.98 To 9999. %



MAT 5431

Dpa elastic (mt2)
Cross Section

54-Xe-126
-99.97 To 9999. %

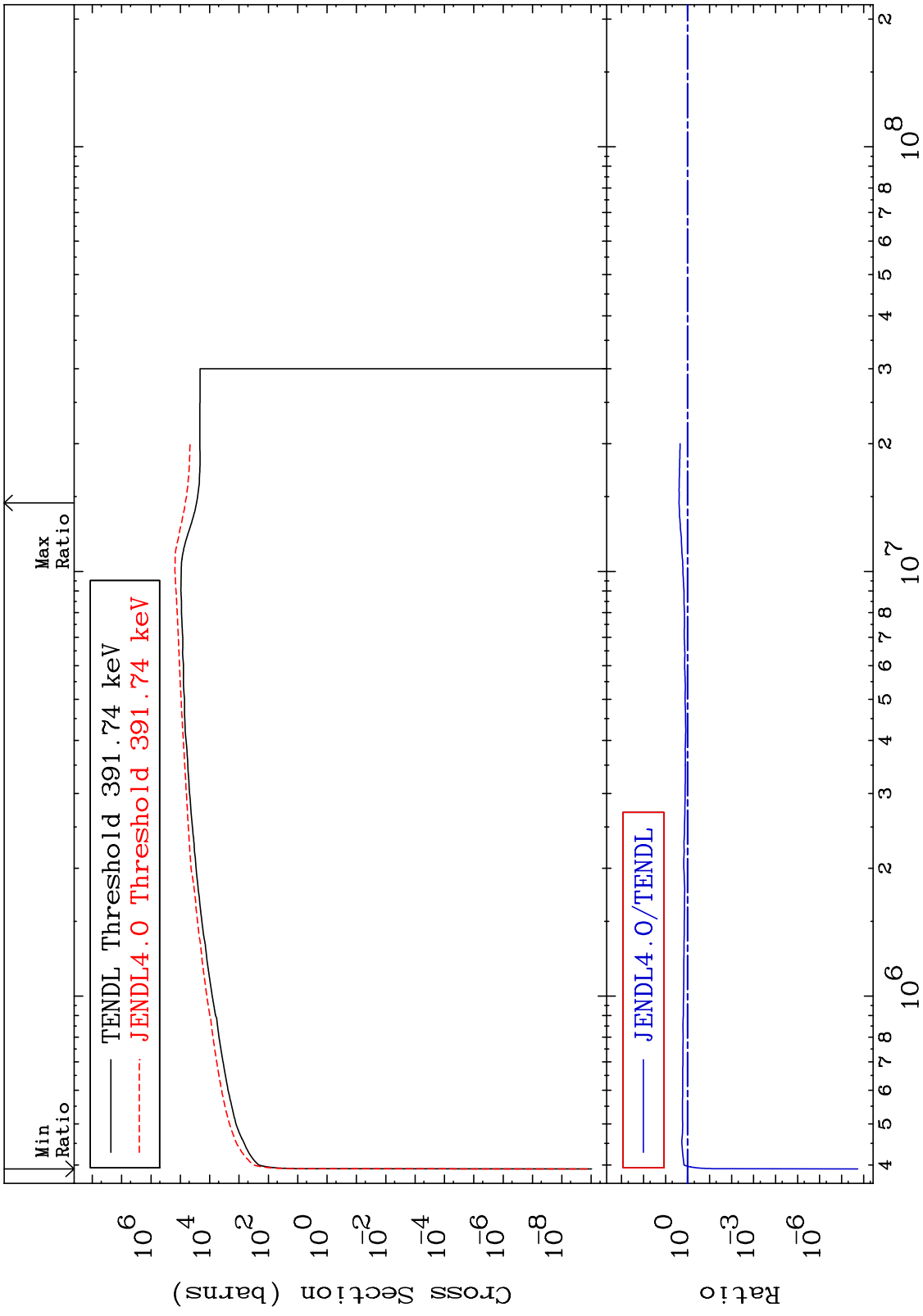


40

Incident Energy (eV)

54-Xe-126

MAT 5431 Dpa inelastic (mt51-91) 54-Xe-126
 Cross Section -100.0 To 143.9 %

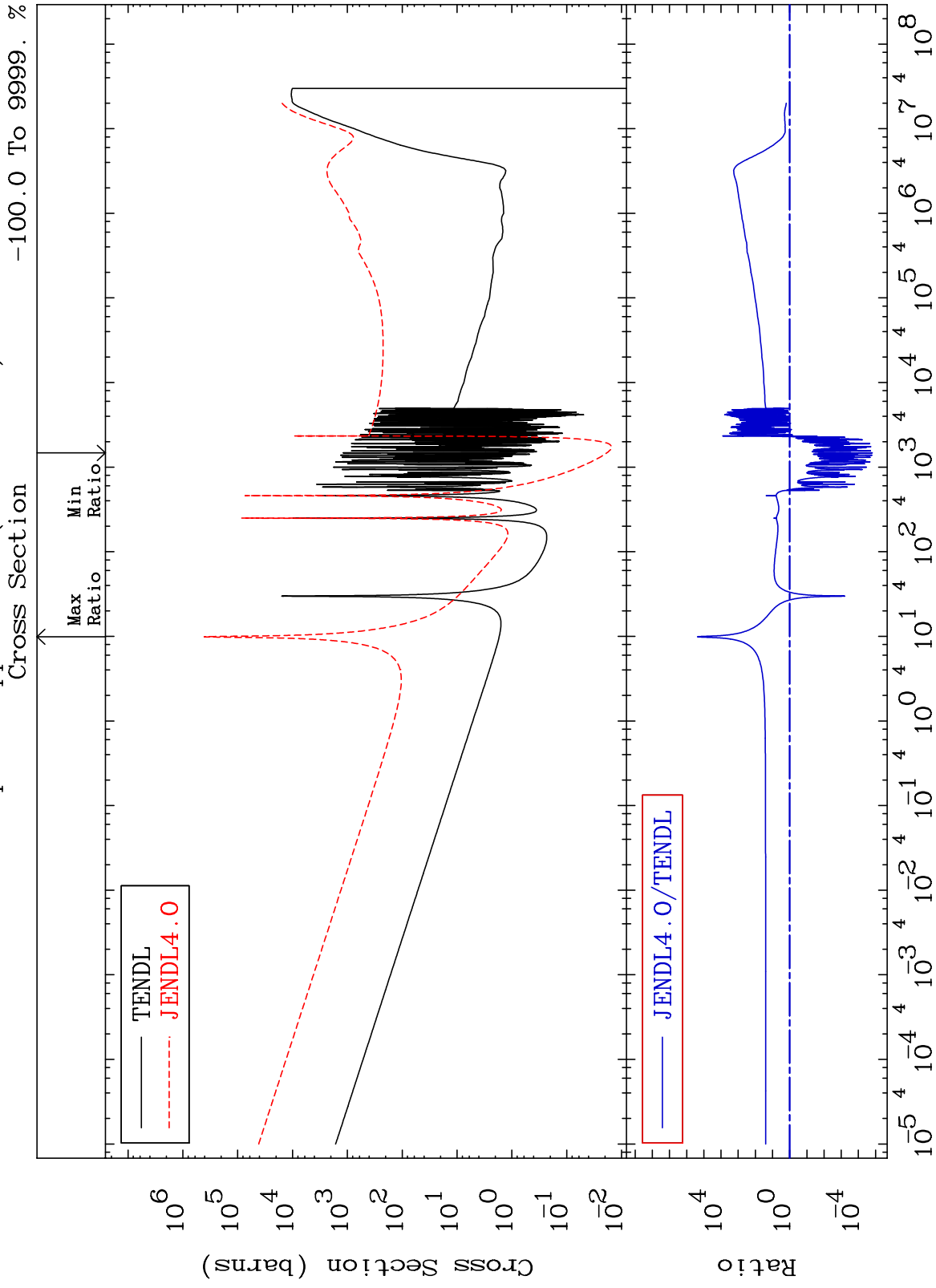


MAT 5431

Dpa disappearance (mt102 -120)

54-Xe-126

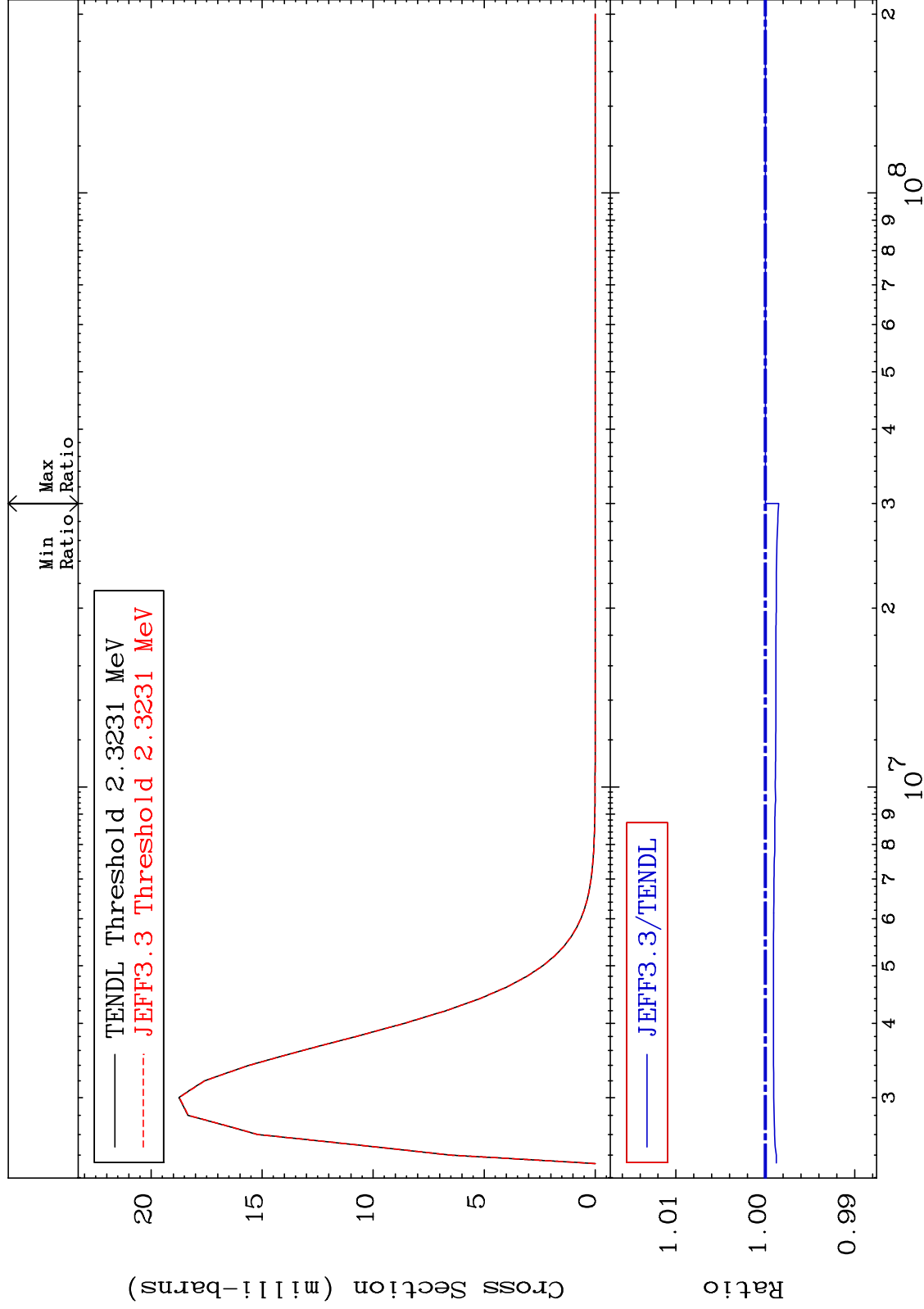
-100.0 To 9999. %



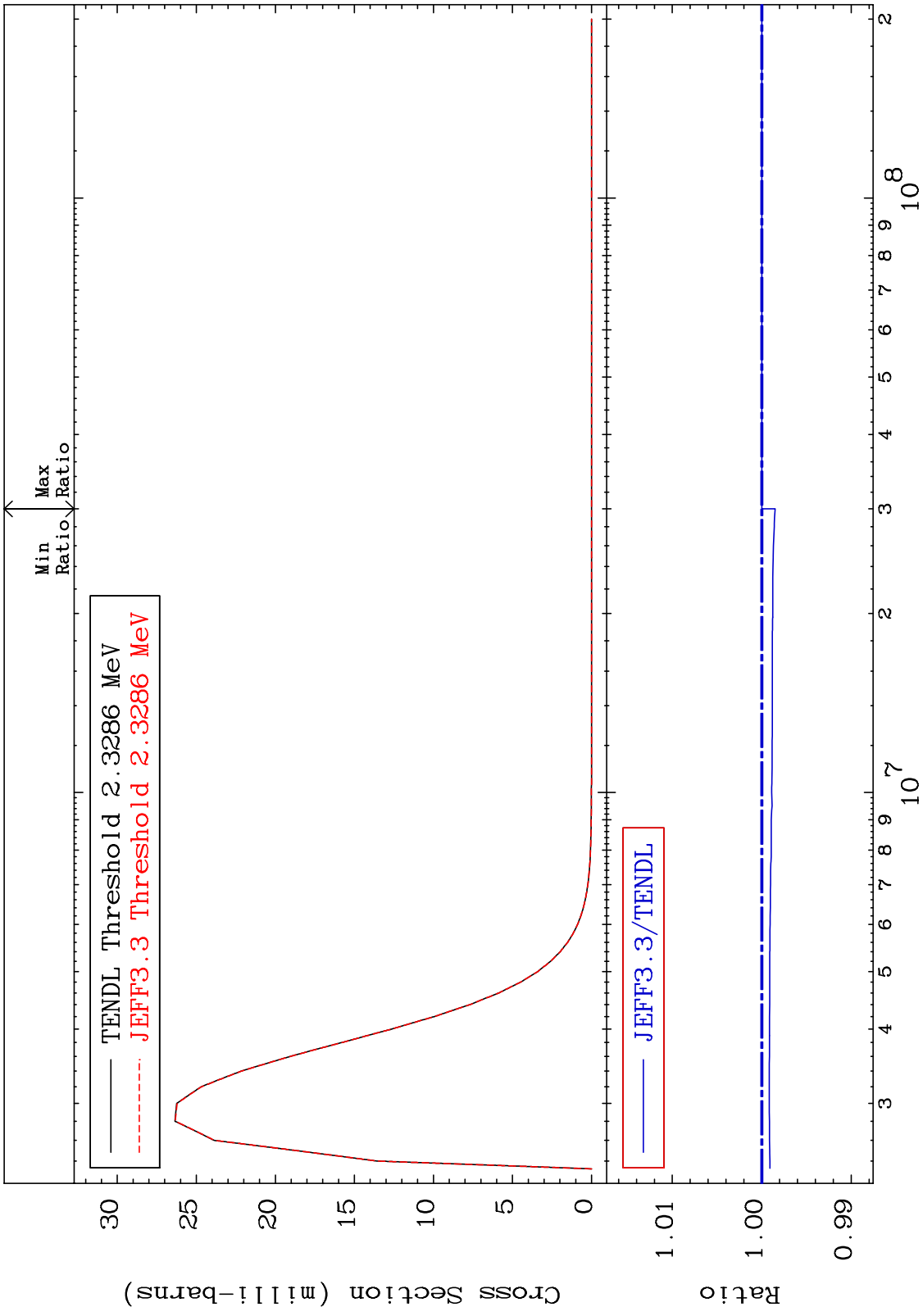
MAT 5431

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

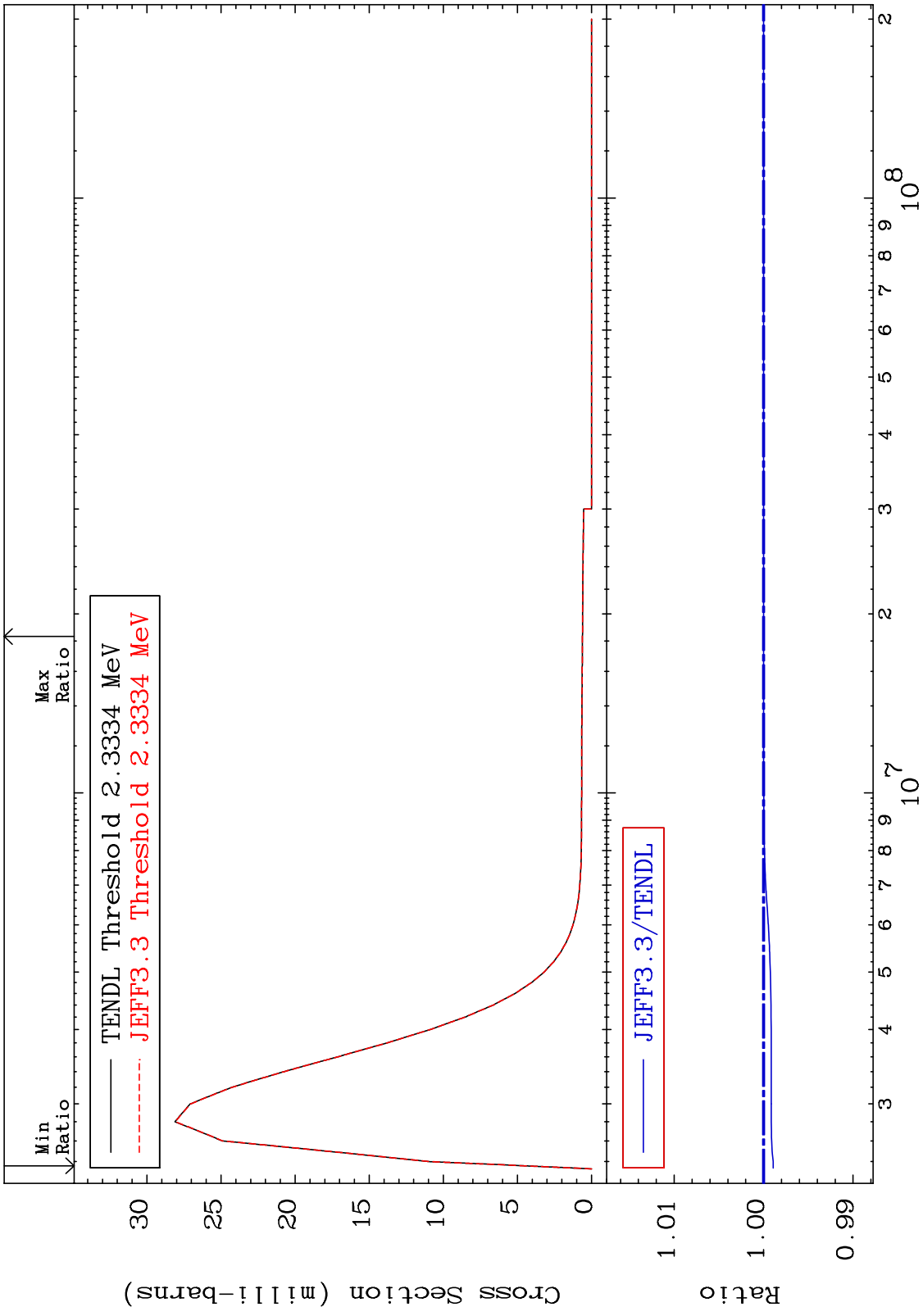
54-Xe-126
-0.150 To 0.000 %



MAT 5431 MT= 75 (n,n') Level Cross Section 54-Xe-126 -0.150 To 0.000 %



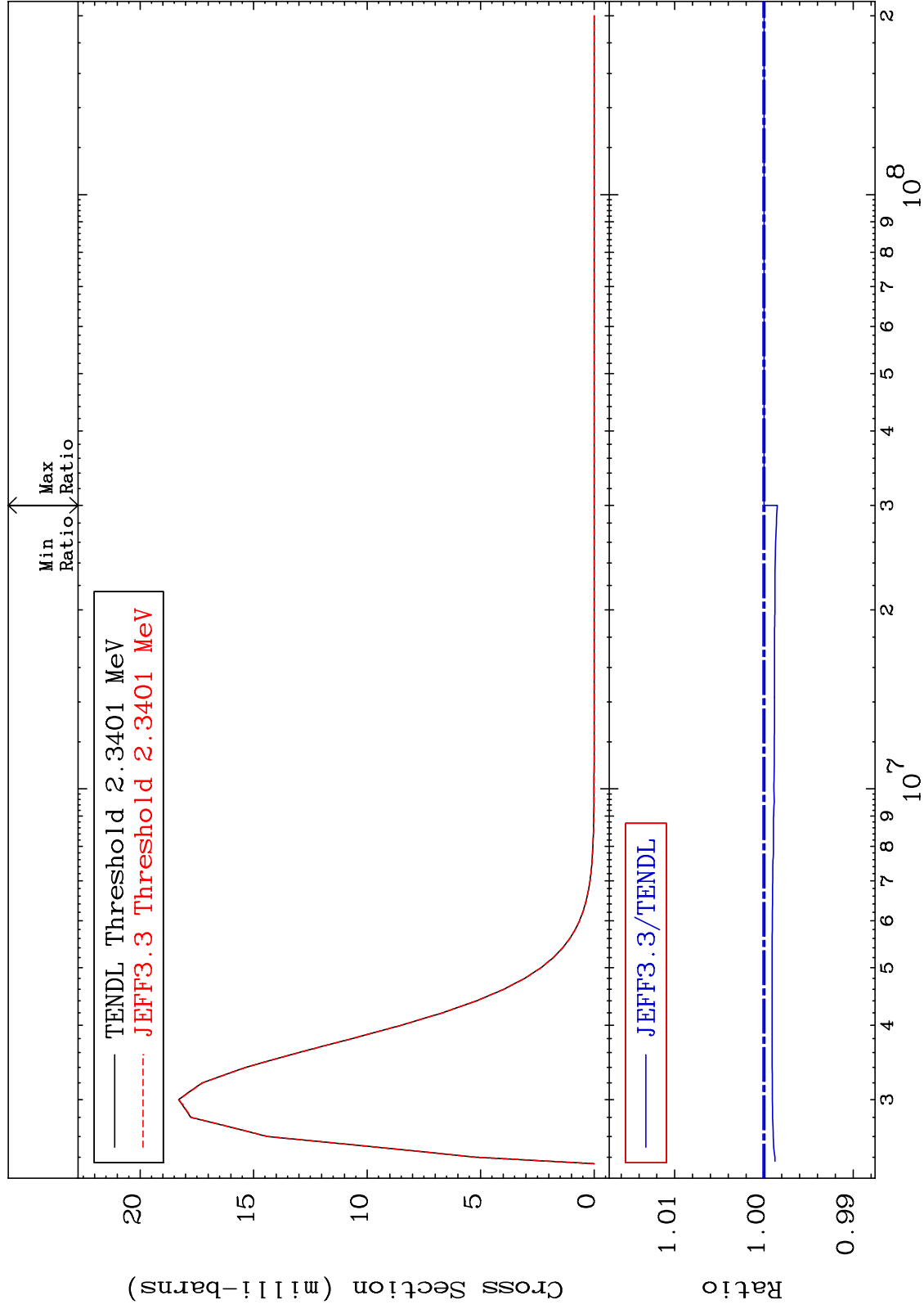
MAT 5431 MT= 76 (n,n') Level Cross Section 54-Xe-126
 -0.108 To 0.000 %



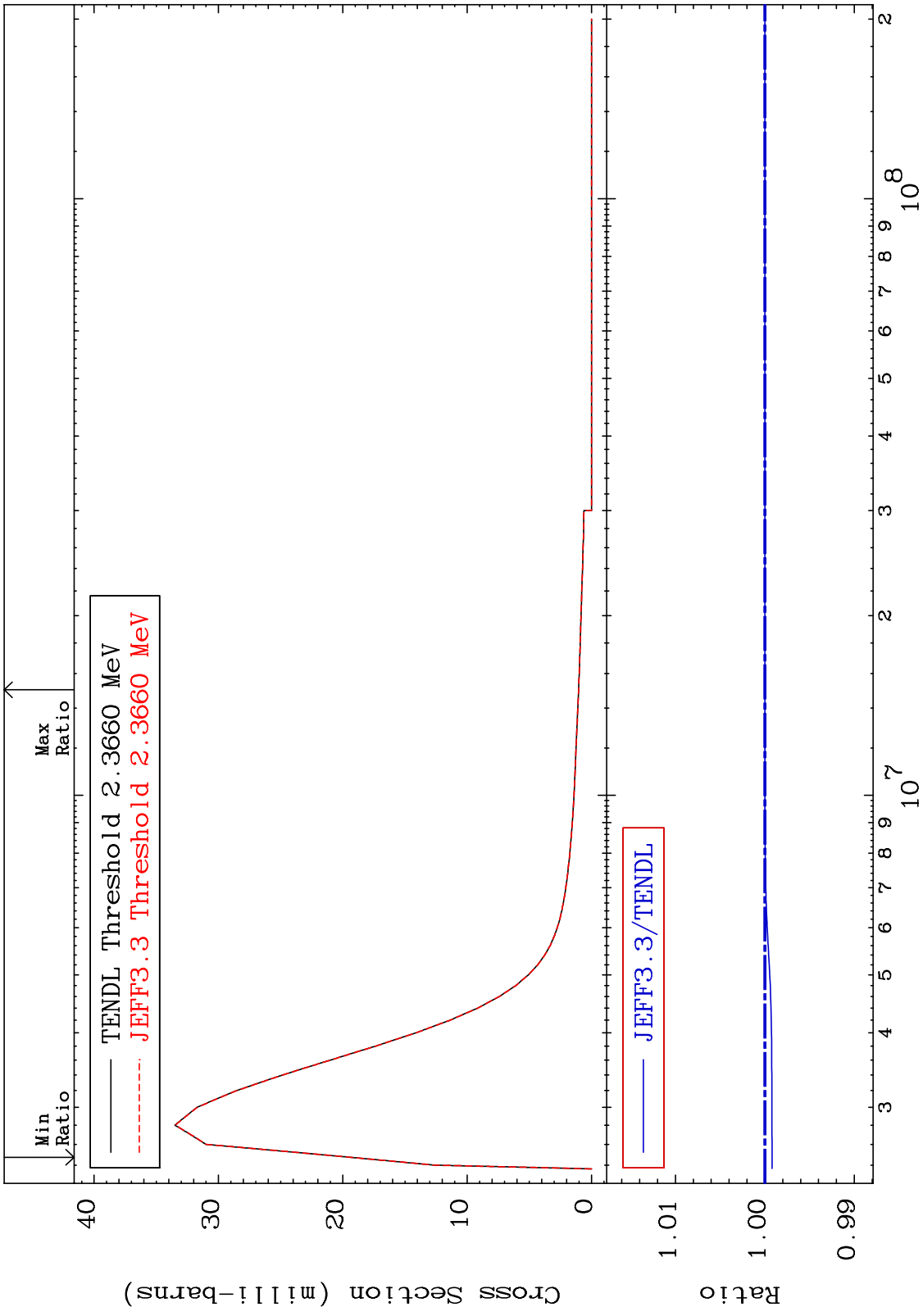
MAT 5431

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

54-Xe-126
-0.150 To 0.000 %



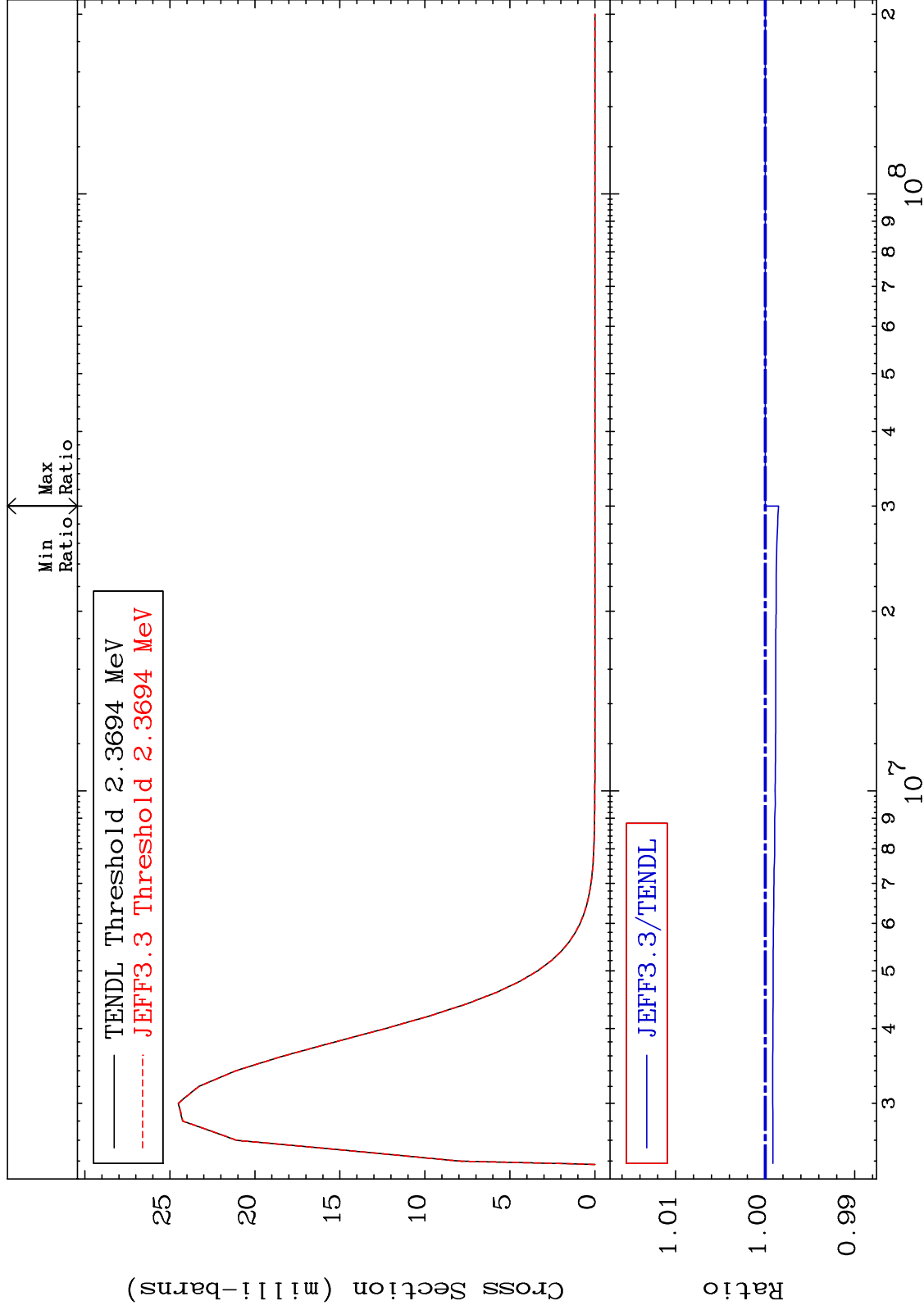
MAT 5431 MT= 78 (n,n') Level Cross Section 54-Xe-126 -0.080 To 0.000 %



MAT 5431

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

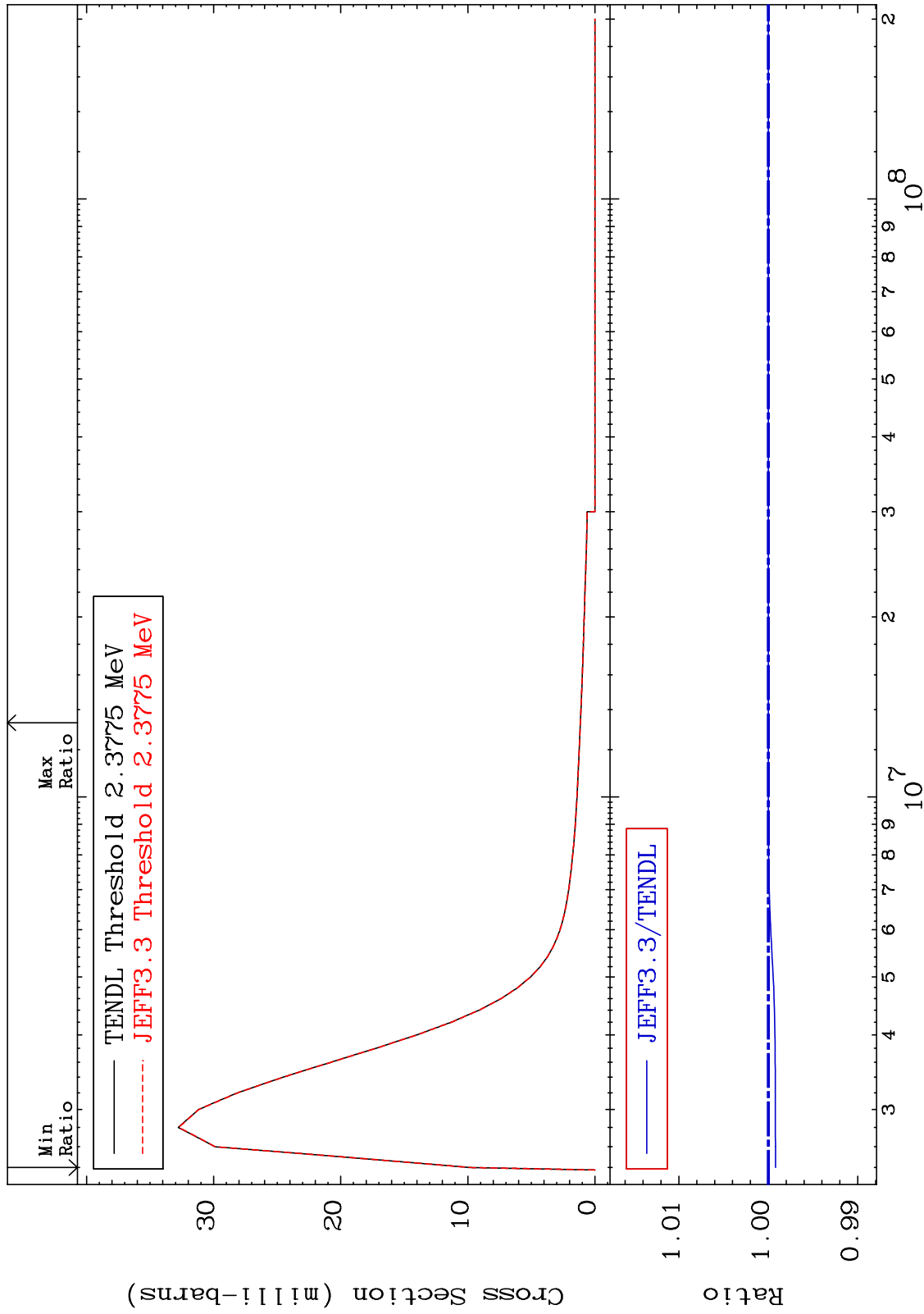
54-Xe-126
-0.150 To 0.000 %



MAT 5431

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

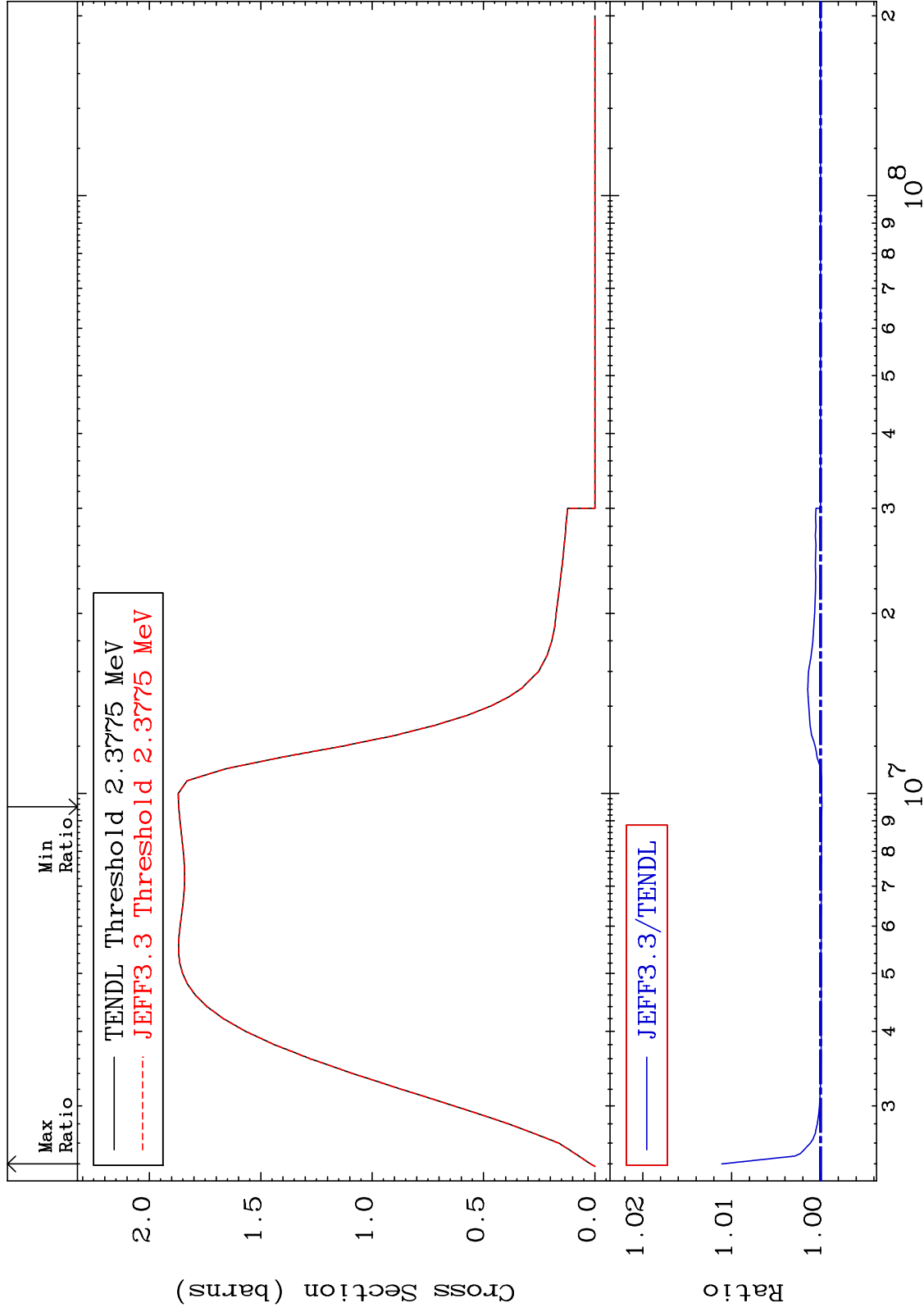
54-Xe-126
-0.080 To 0.000 %



MAT 5431

(n,n') Continuum
Cross Section

54-Xe-126
-0.016 To 1.111 %



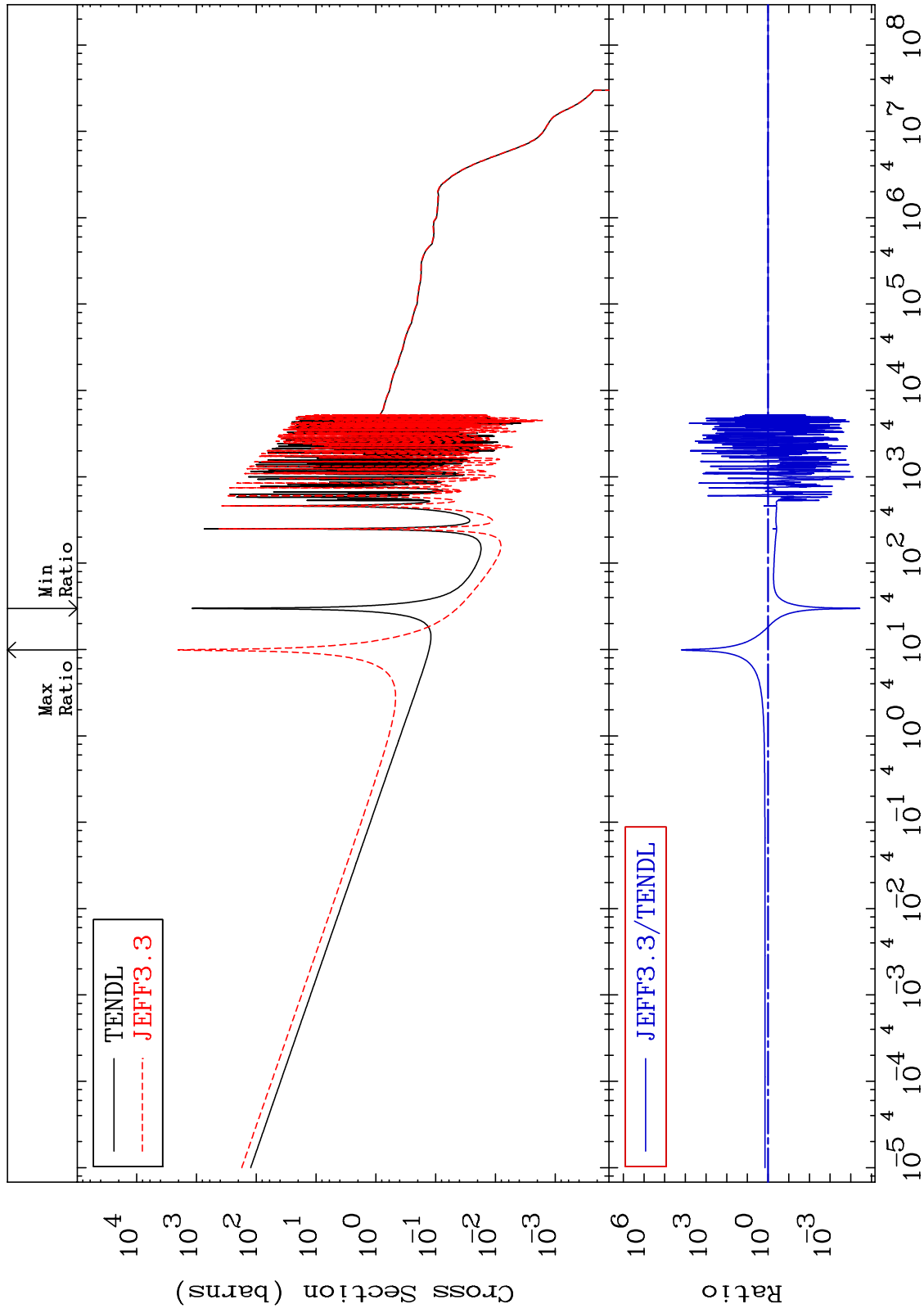
50

Incident Energy (eV)

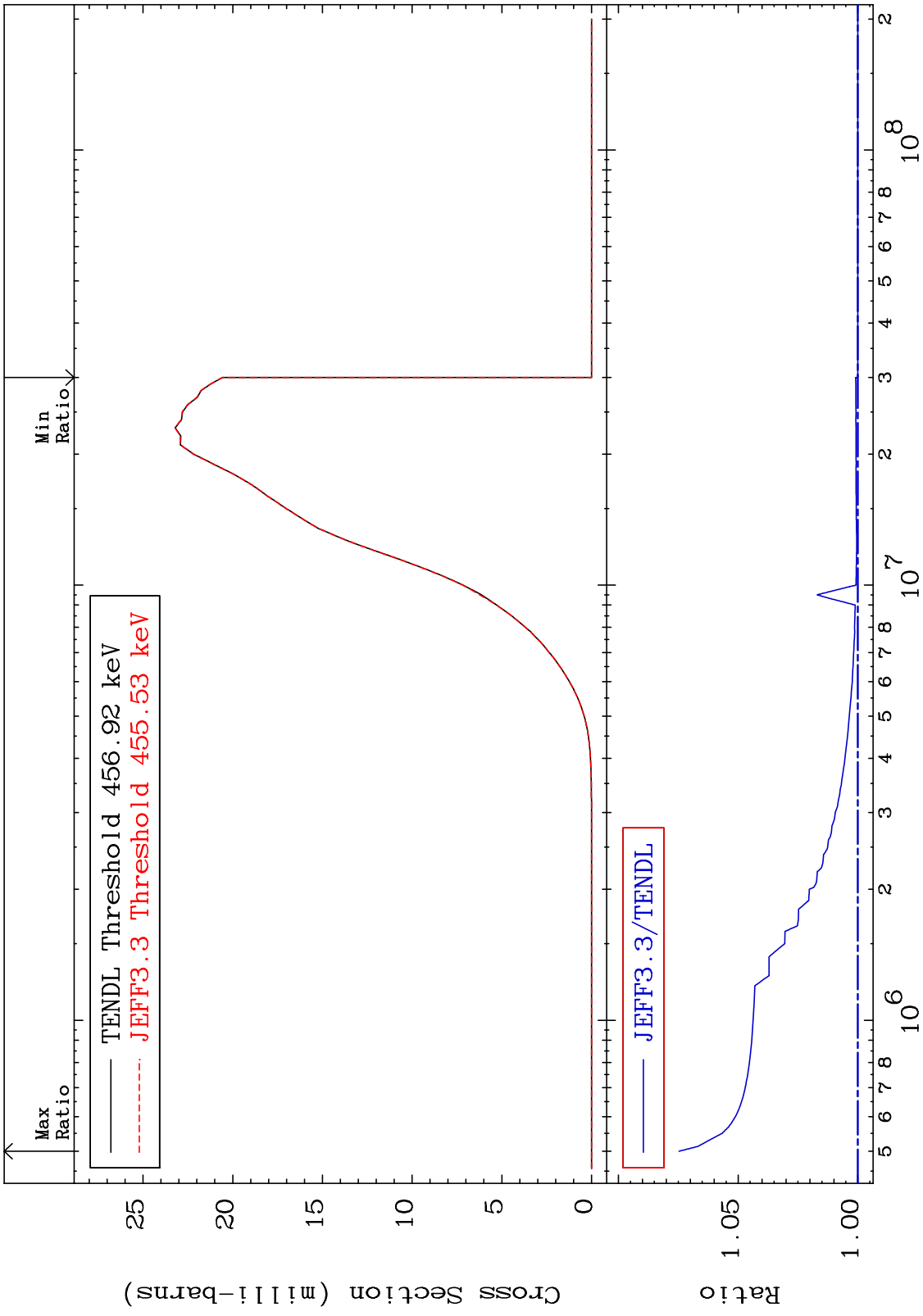
54-Xe-126

MAT 5431

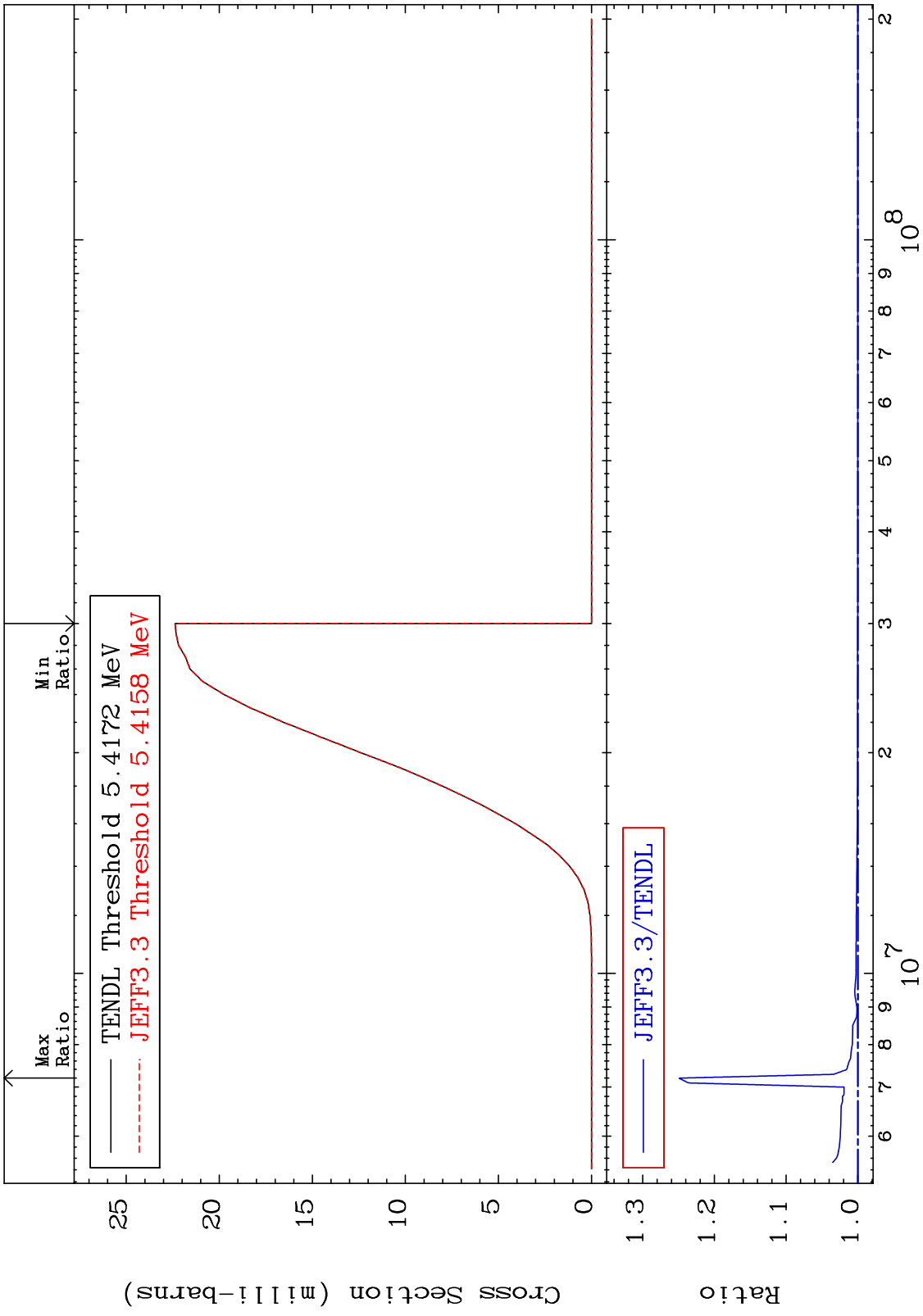
(n, γ) Cross Section
54-Xe-126
-100.0 To 9999. %



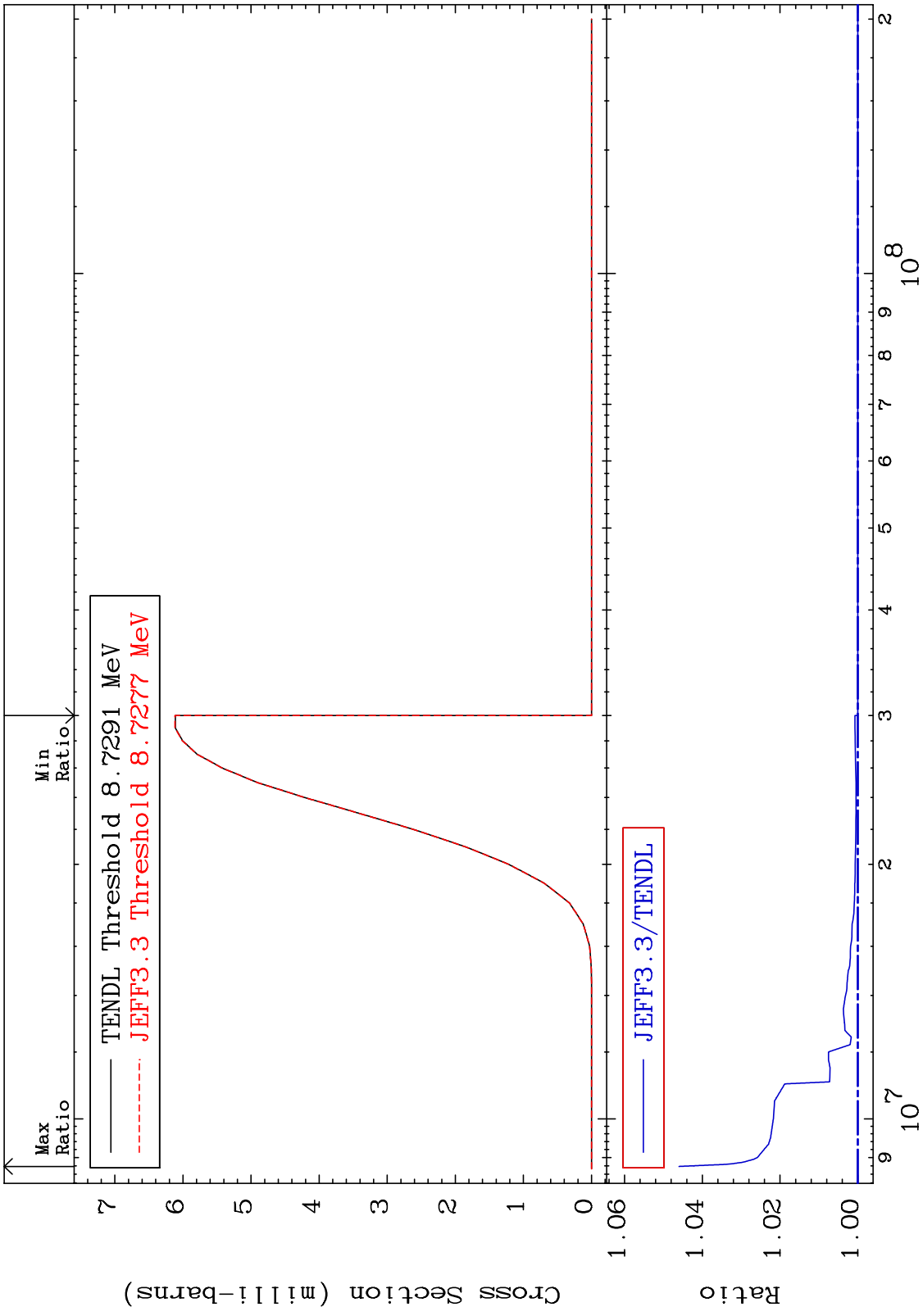
MAT 5431 (n,p) Cross Section 54-Xe-126 To 7.468 %



MAT 5431 (n,d) Cross Section 54-Xe-126 To 24.94 %

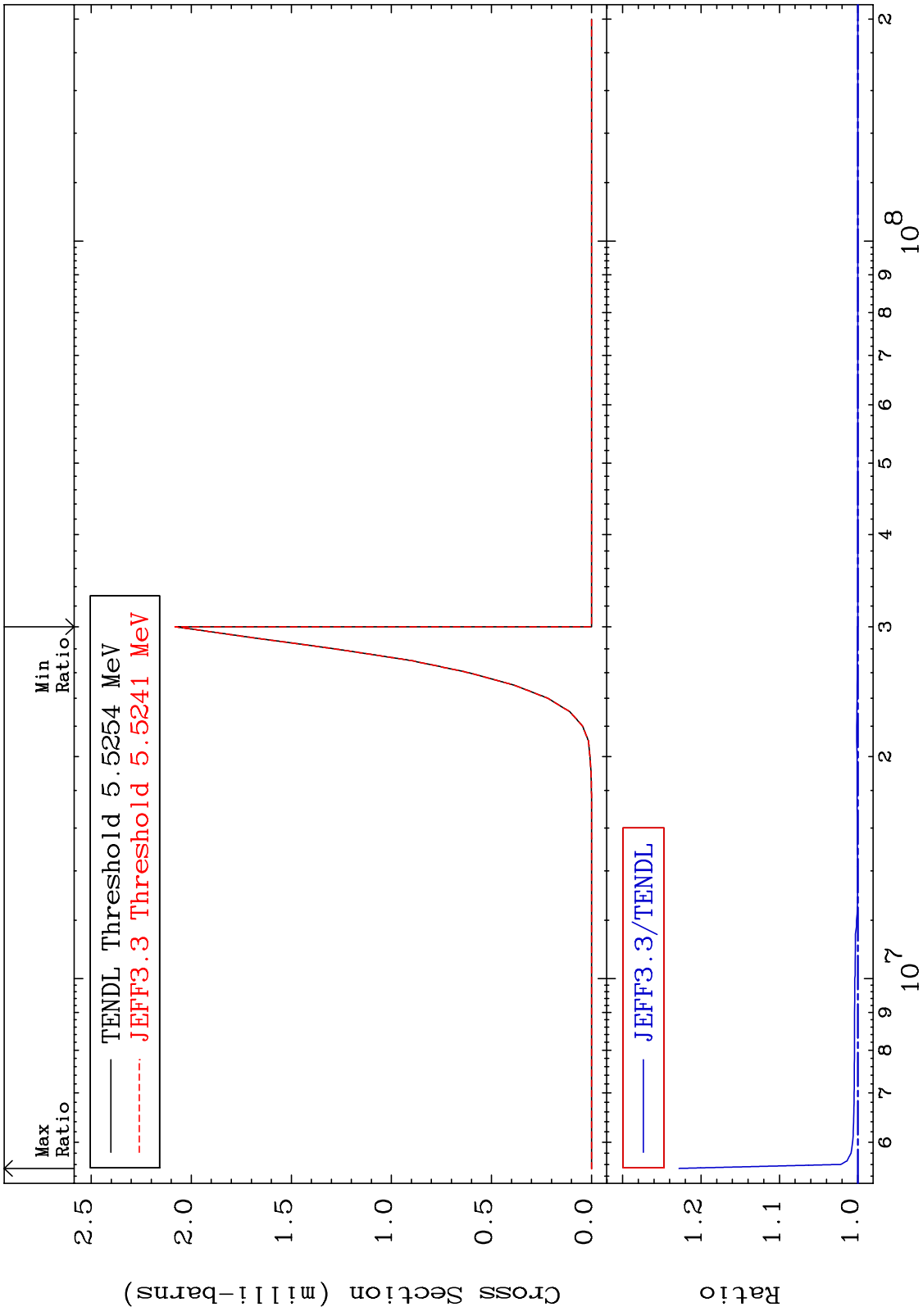


MAT 5431 (n,t) Cross Section 54-Xe-126 To 4.598 %



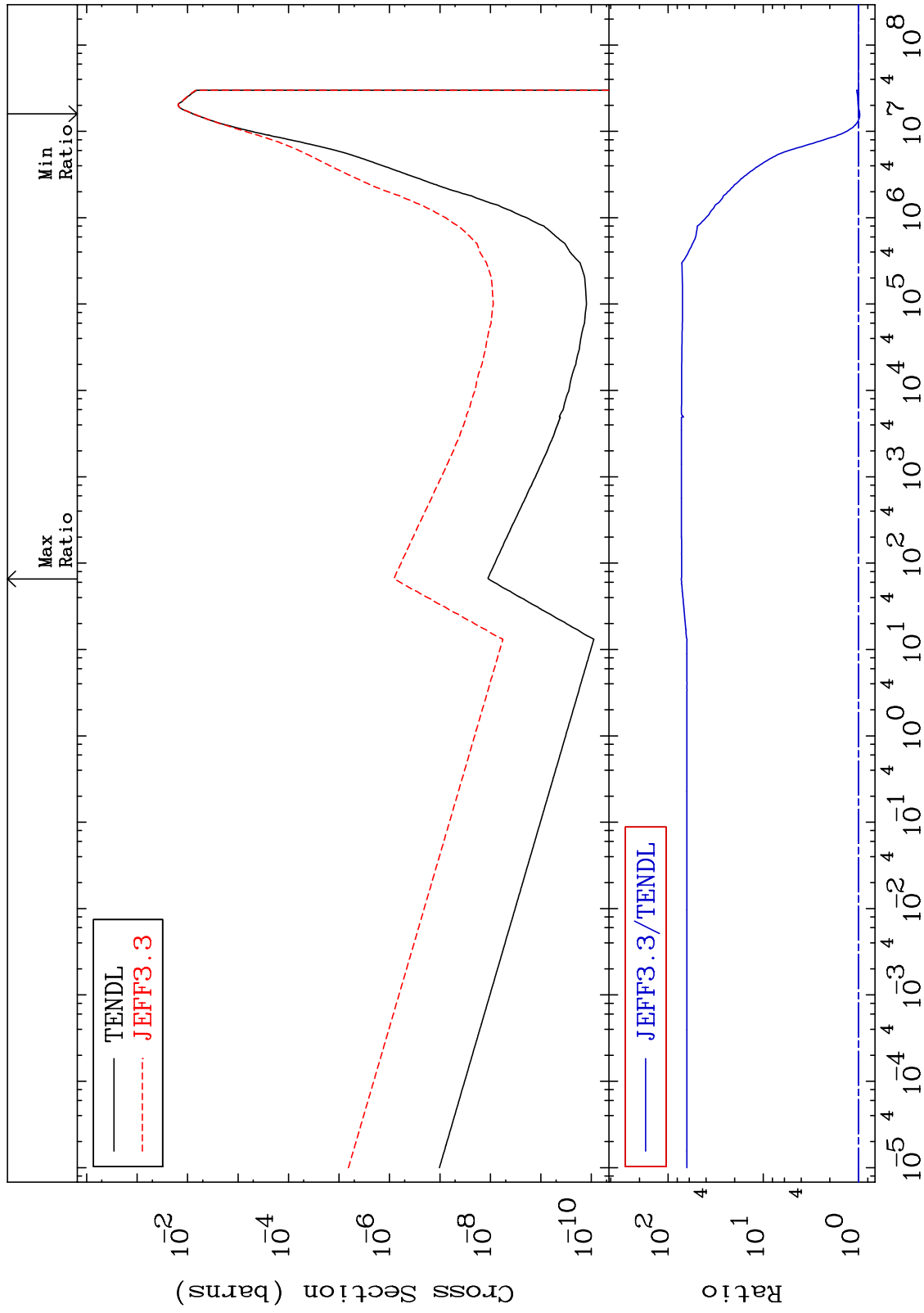
54 Incident Energy (eV) 54-Xe-126

MAT 5431 (n, He-3) Cross Section 54-Xe-126 To 22.80 %

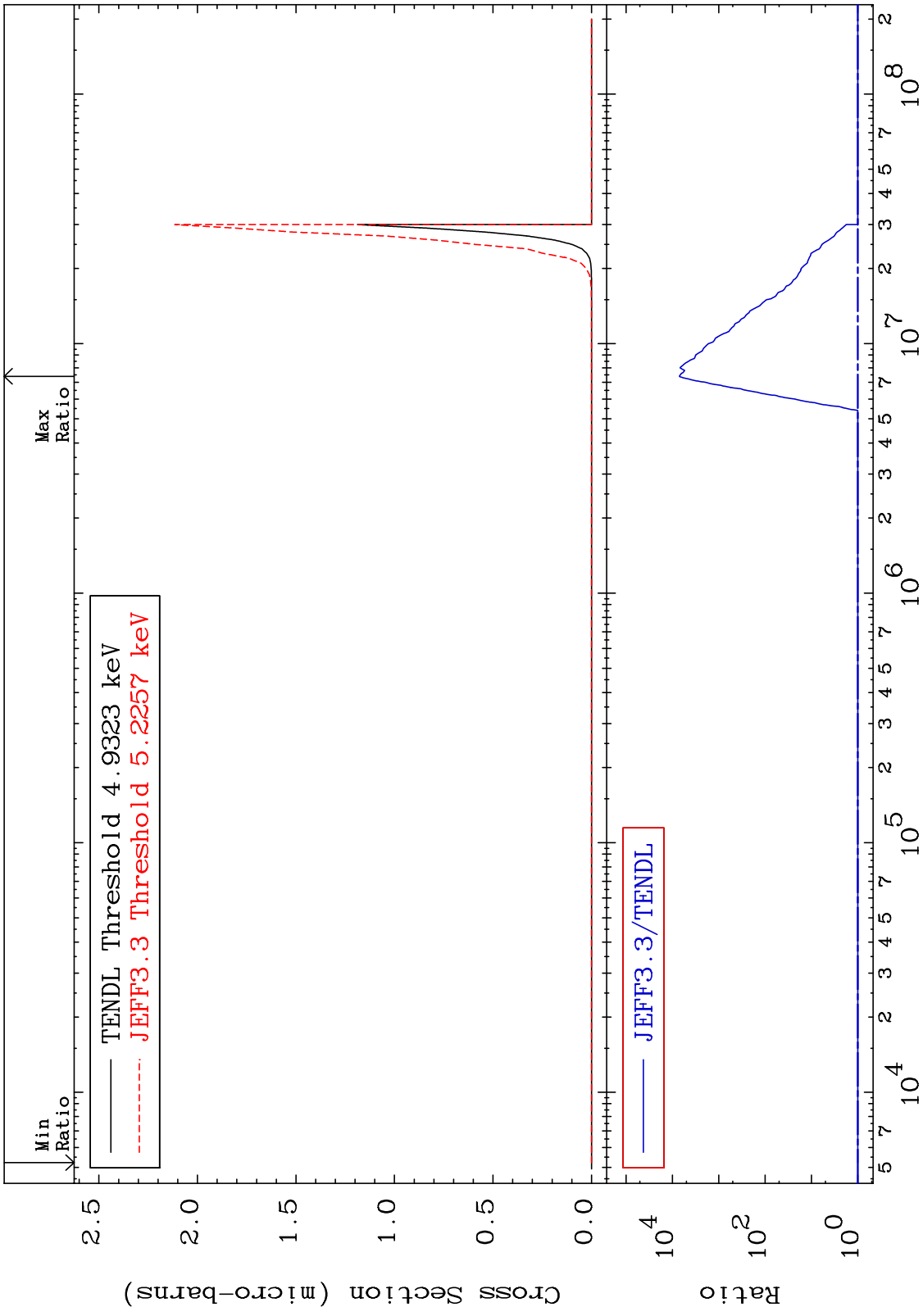


MAT 5431

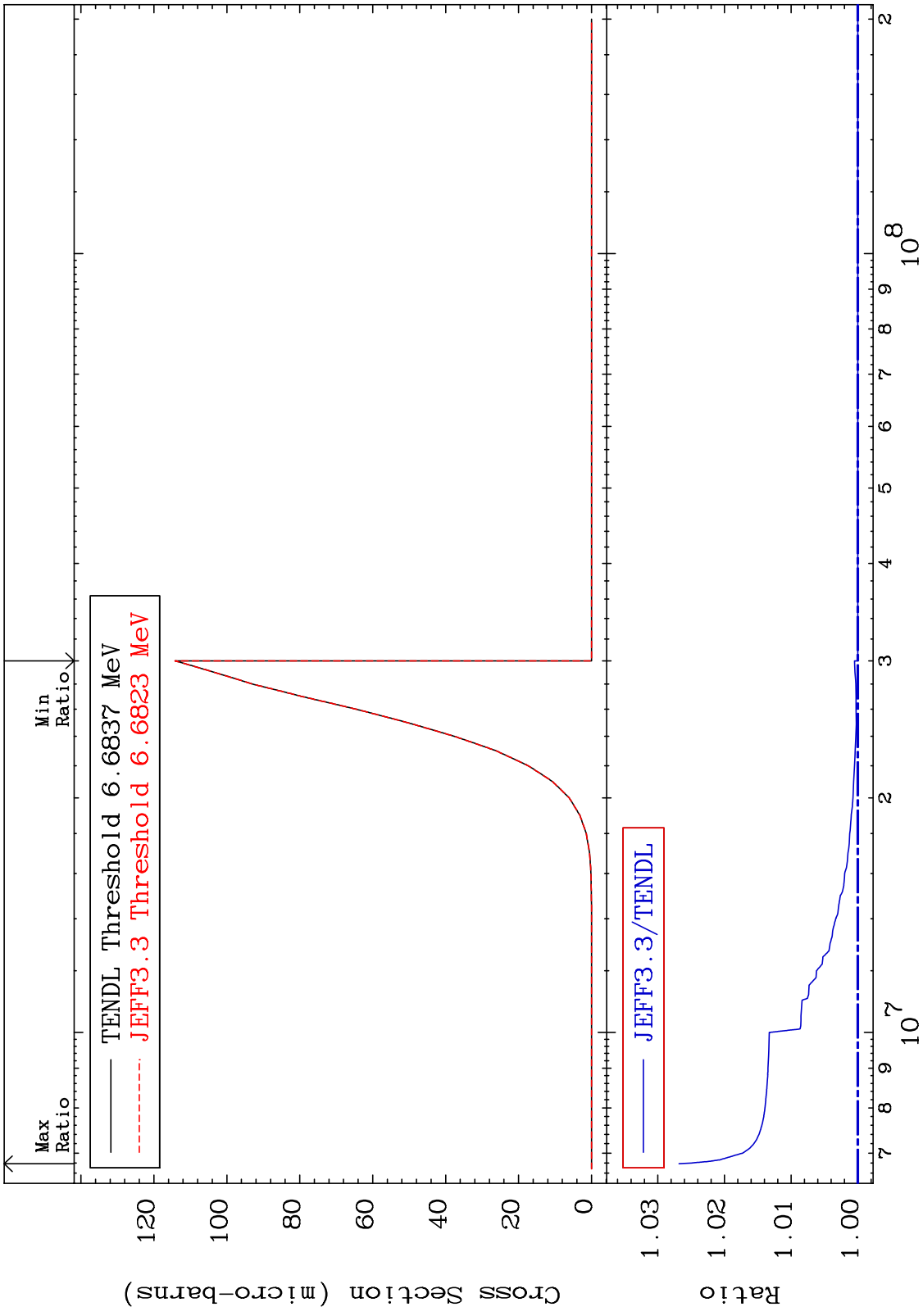
(n, α) Cross Section
54-Xe-126
-3.091 To 7173. %



MAT 5431 (n,2α) Cross Section 54-Xe-126 To 9999. %



MAT 5431 (n,2p) Cross Section 54-Xe-126 To 2.680 %



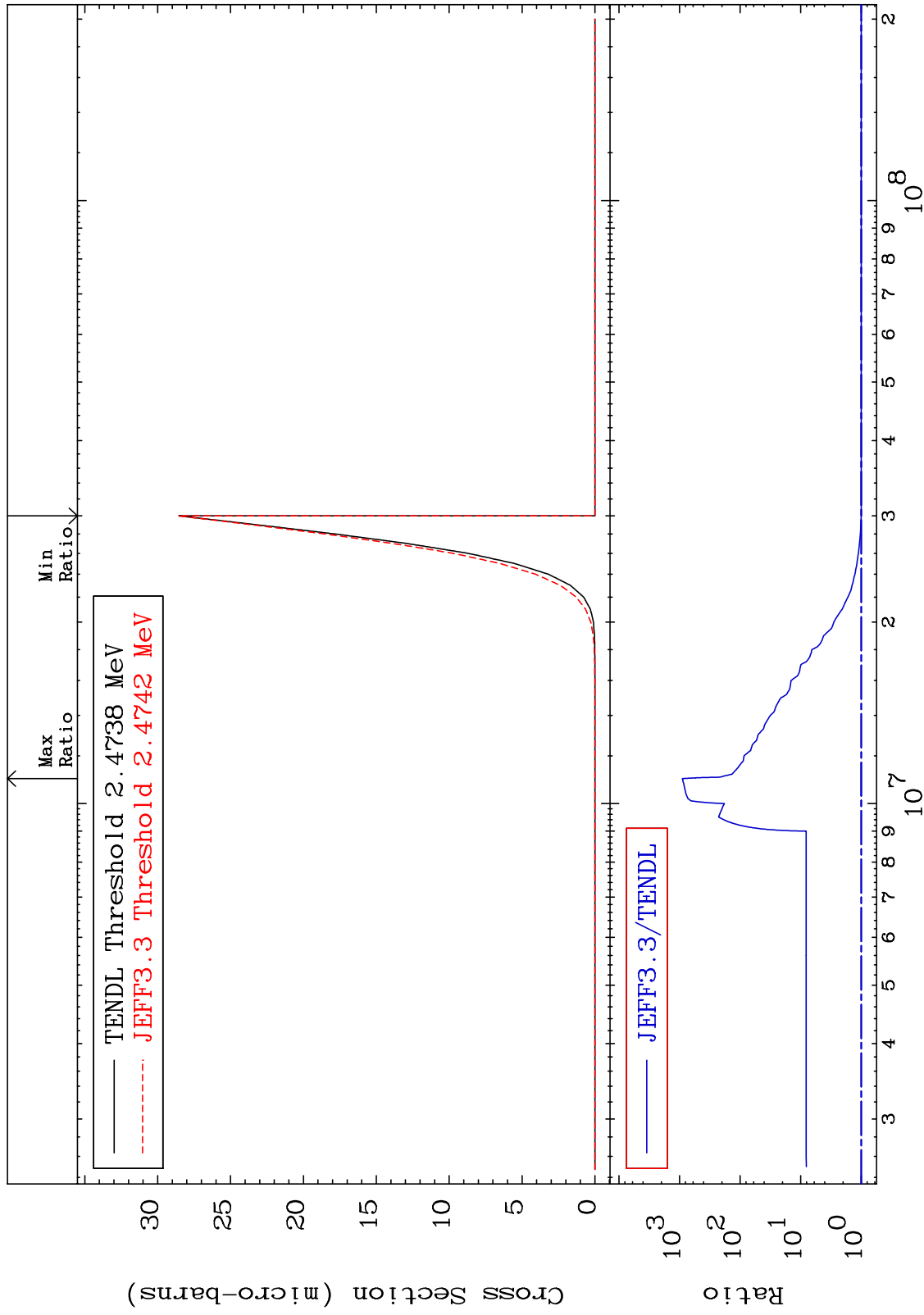
MAT 5431

(n,p) α

54-Xe-126

Cross Section

0.000 To 9999. %



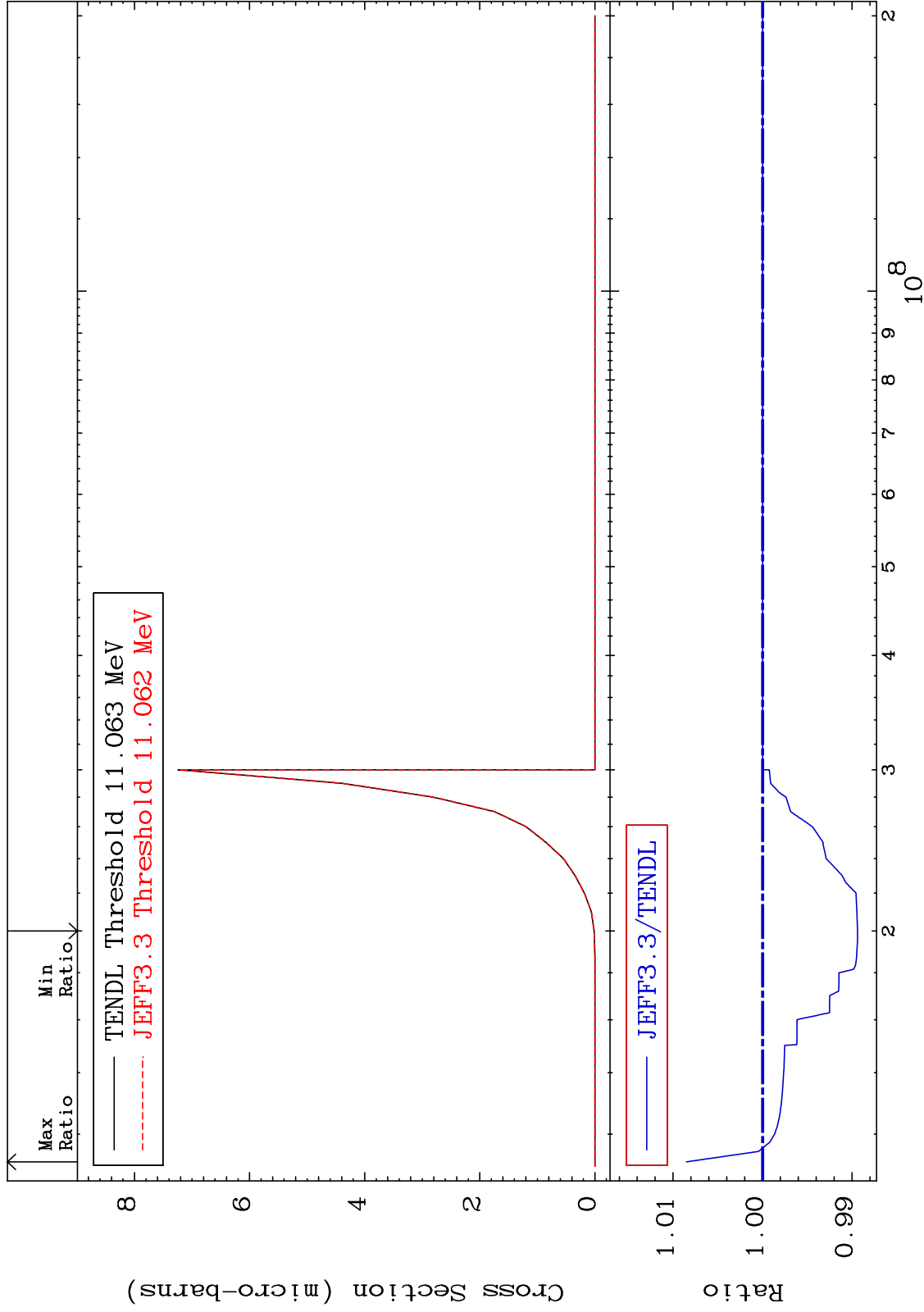
MAT 5431

(n,p) d

54-Xe-126

Cross Section

-1.061 To 0.853 %

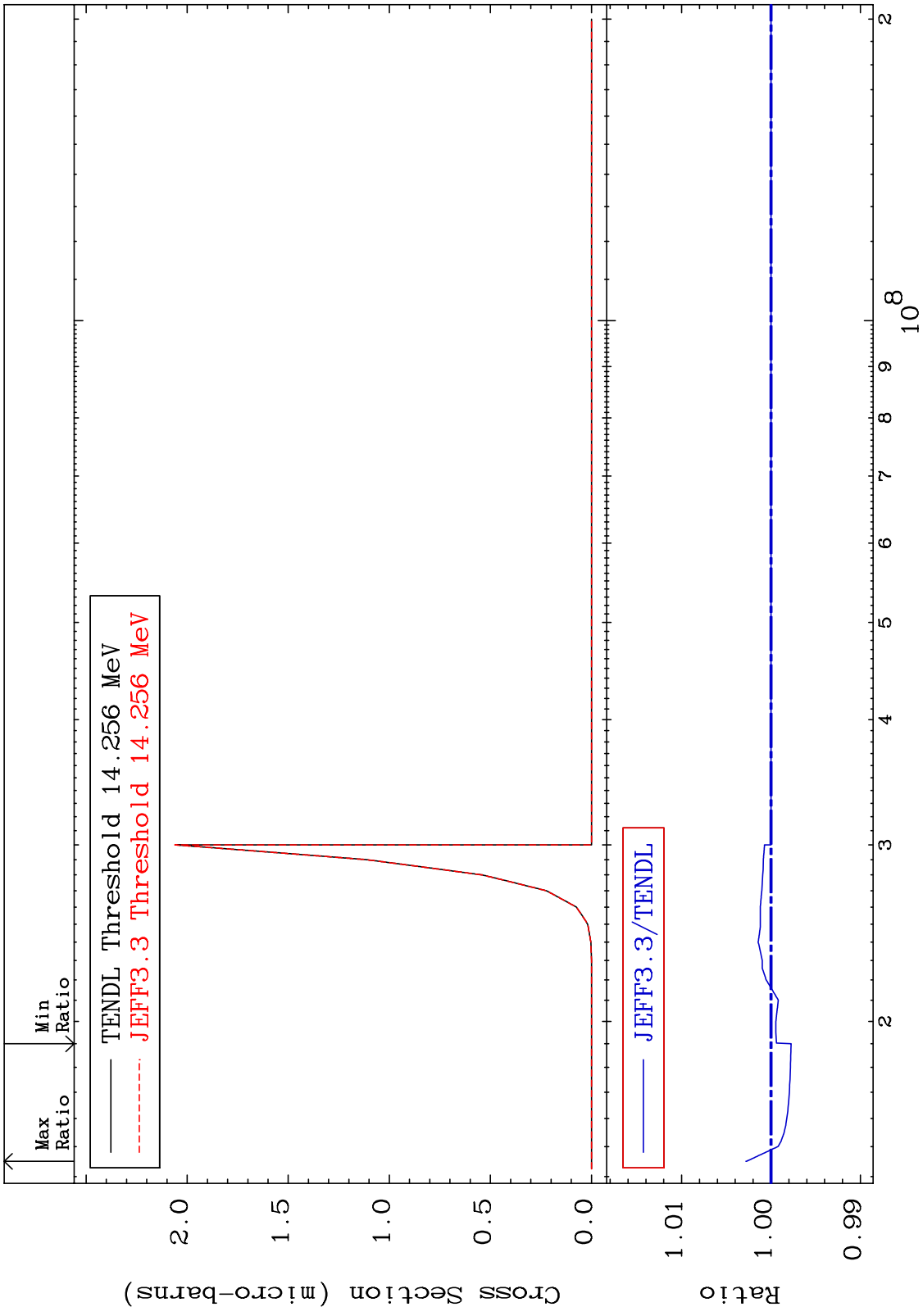


60

Incident Energy (eV)

54-Xe-126

MAT 5431 (n,p) t 54-Xe-126
 Cross Section -0.225 To 0.282 %



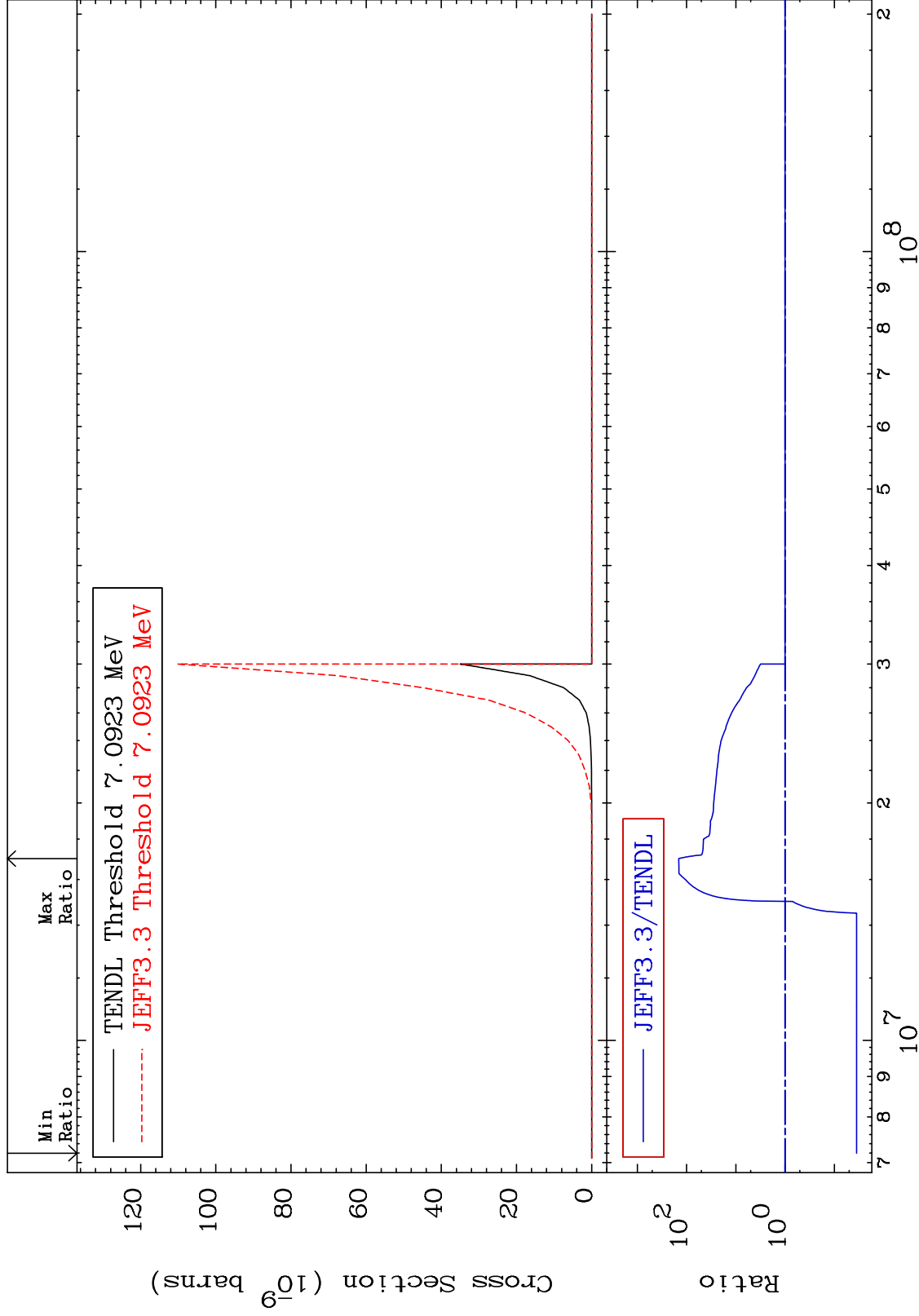
MAT 5431

(n,d) α

54-Xe-126

Cross Section

-96.48 To 9999. %



62

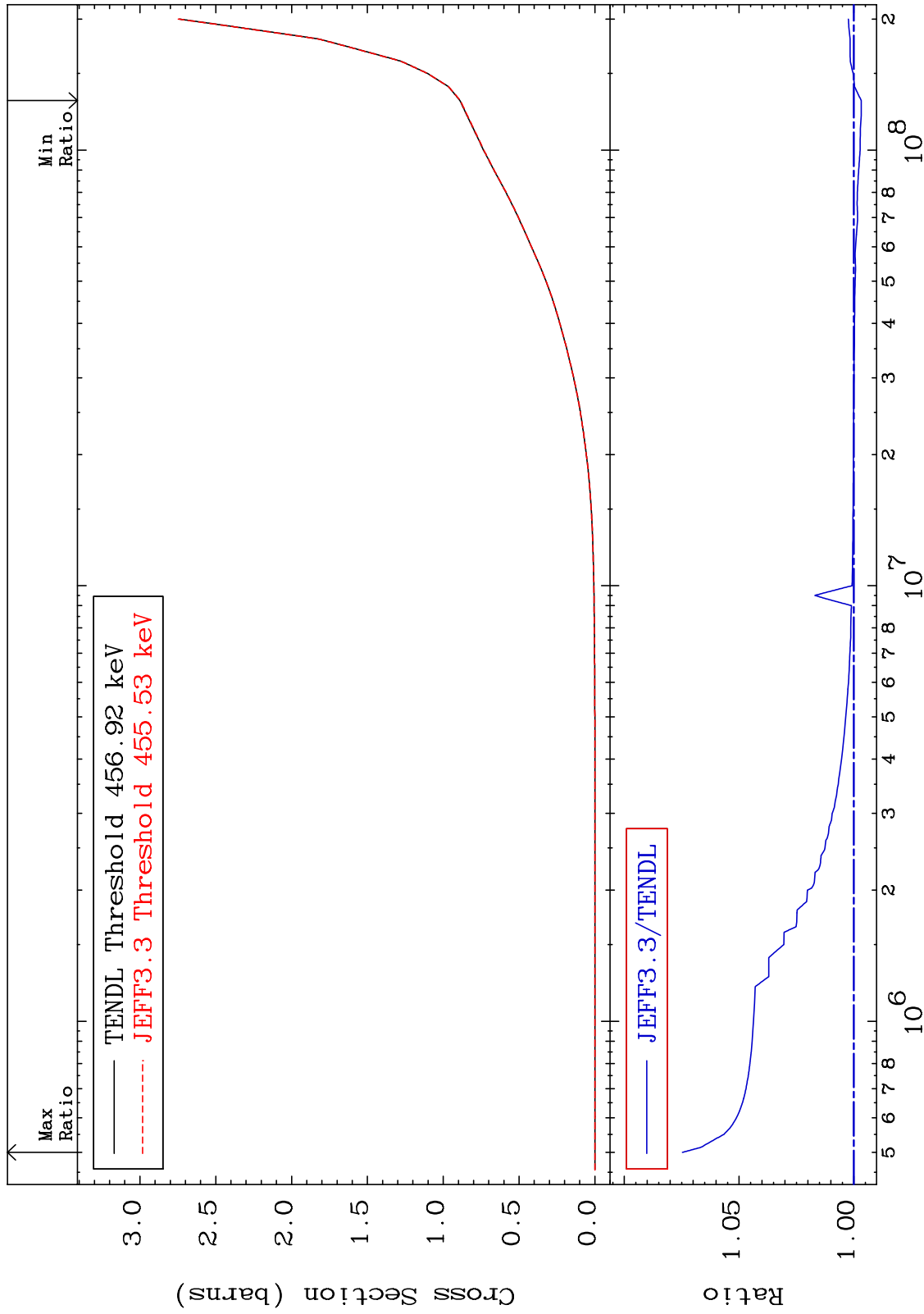
Incident Energy (eV)

54-Xe-126

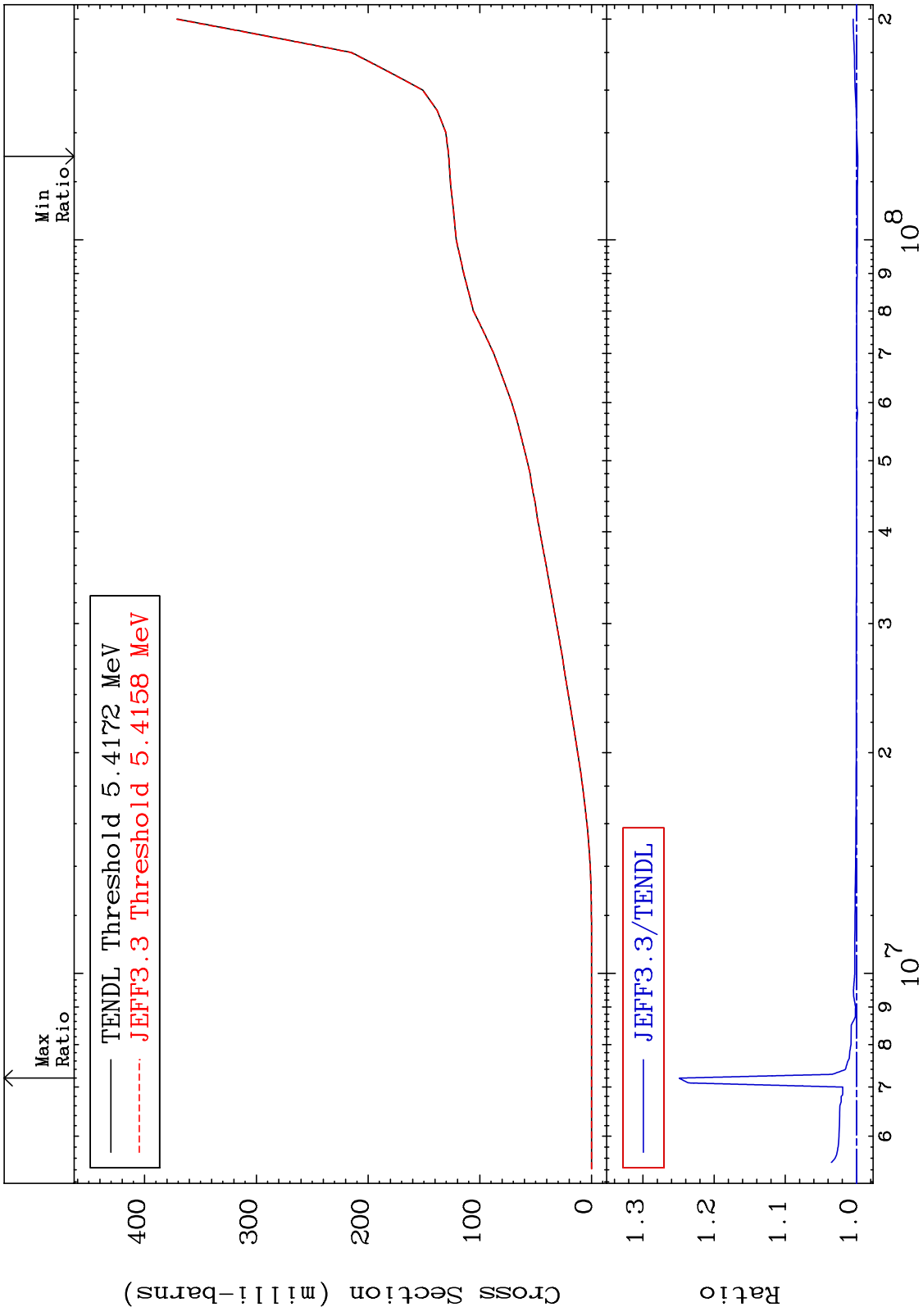
MAT 5431

Hydrogen Production
Cross Section

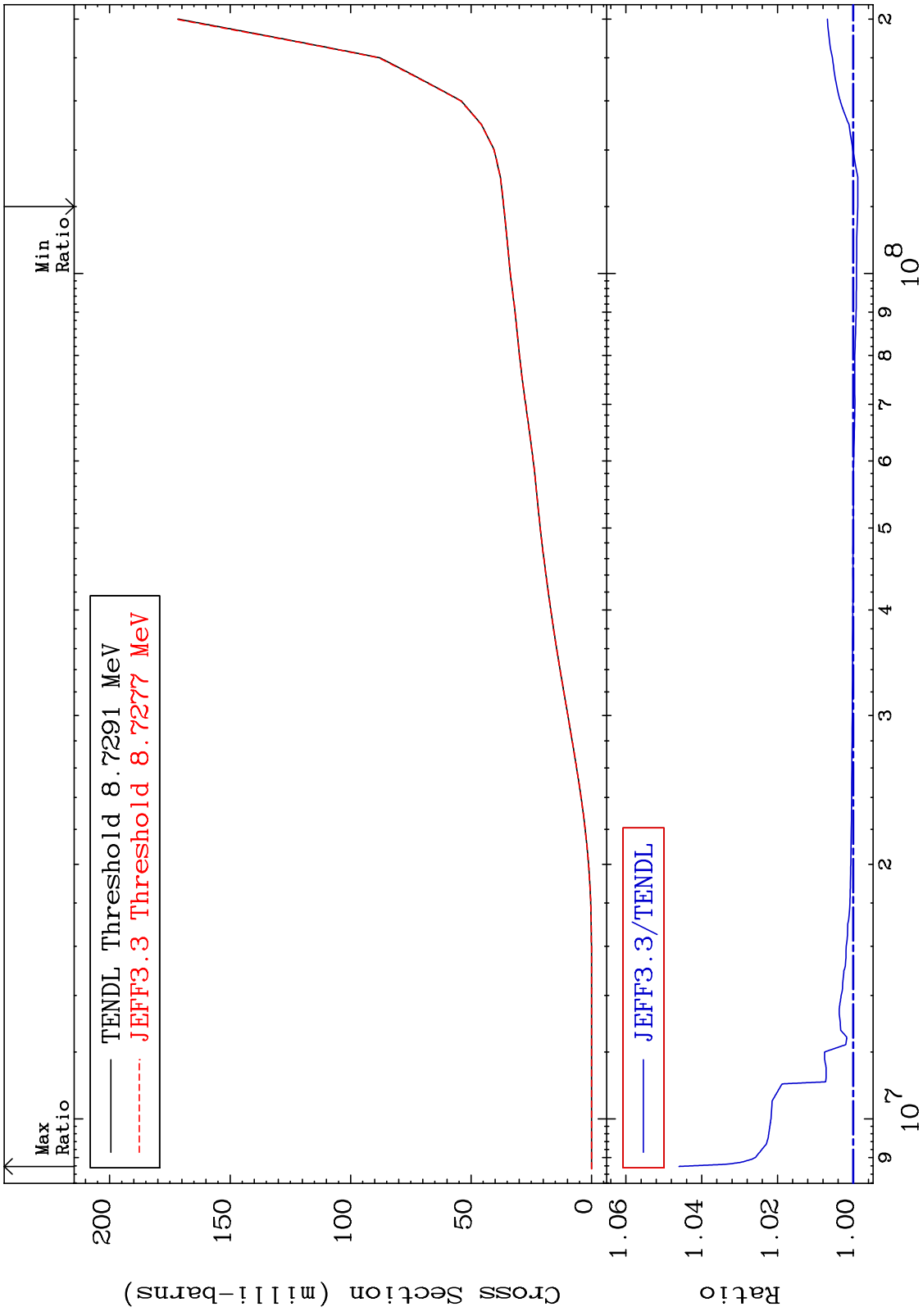
54-Xe-126
-0.322 To 7.468 %



MAT 5431 Deuterium Production Cross Section 54-Xe-126 -0.195 To 24.94 %



MAT 5431 Tritium Production Cross Section 54-Xe-126 -0.121 To 4.598 %

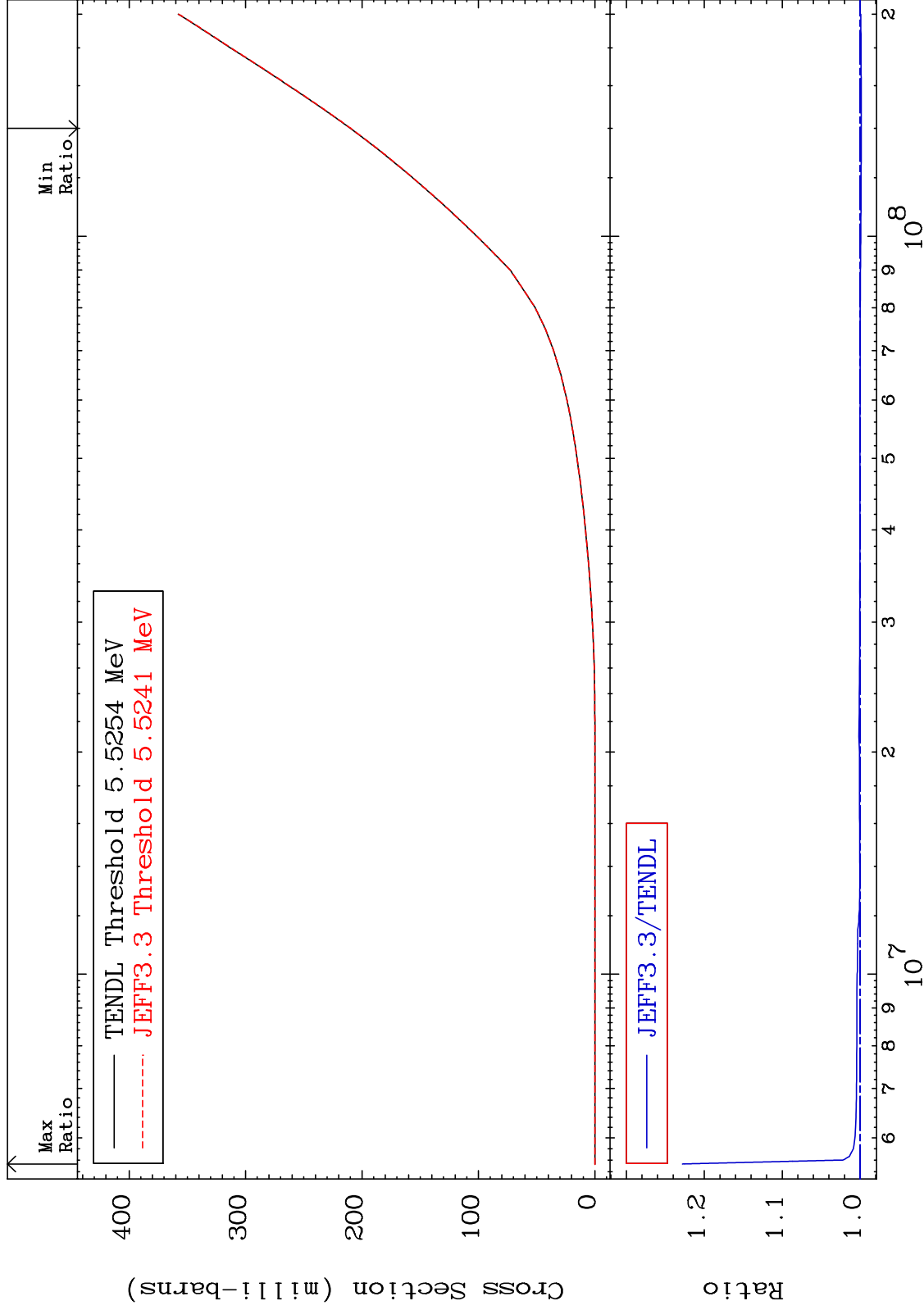


65 54-Xe-126

MAT 5431

He-3 Production
Cross Section

54-Xe-126
-0.148 To 22.80 %



66

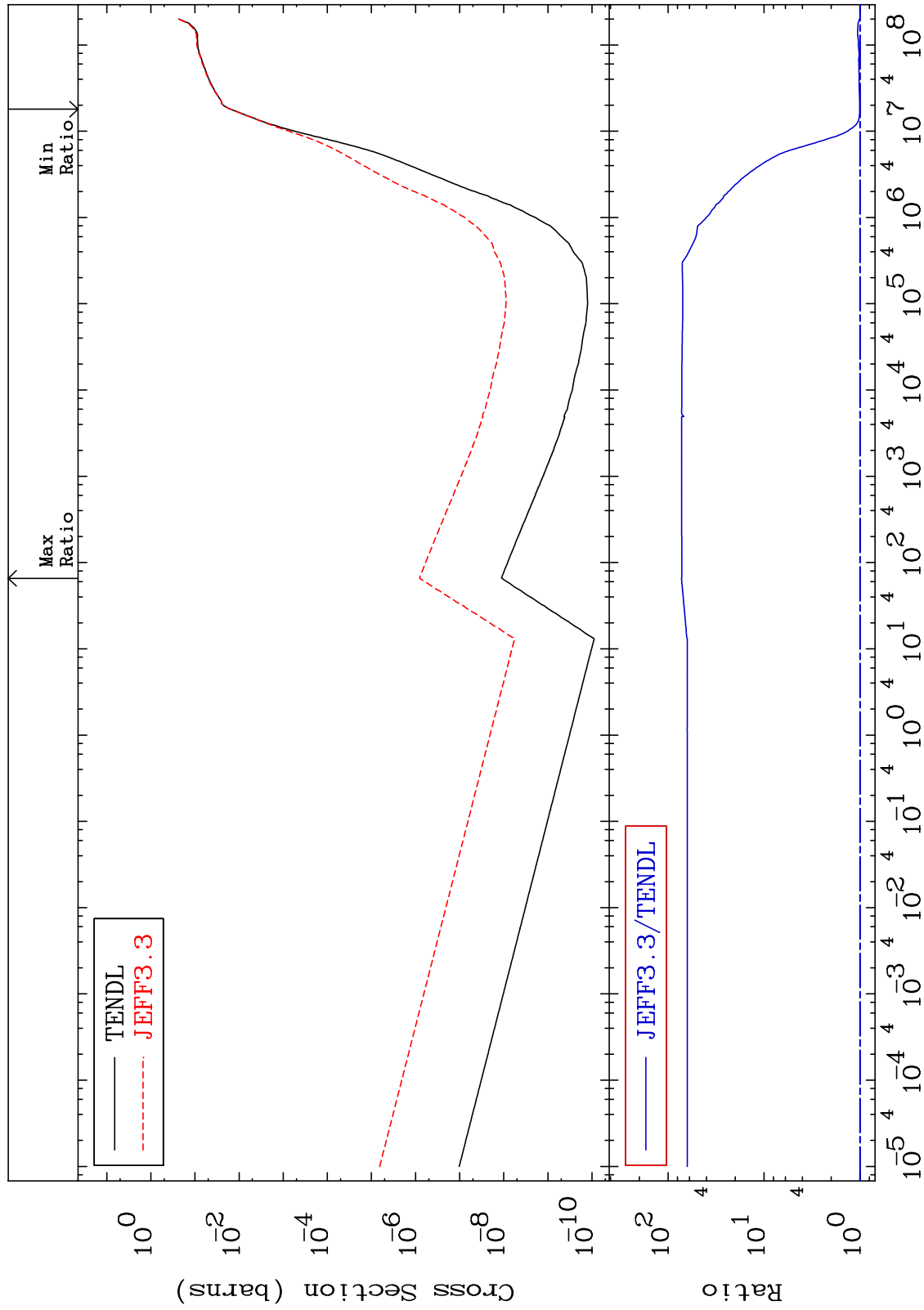
Incident Energy (eV)

54-Xe-126

MAT 5431

He-4 Production
Cross Section

54-Xe-126
0.638 To 7173. %

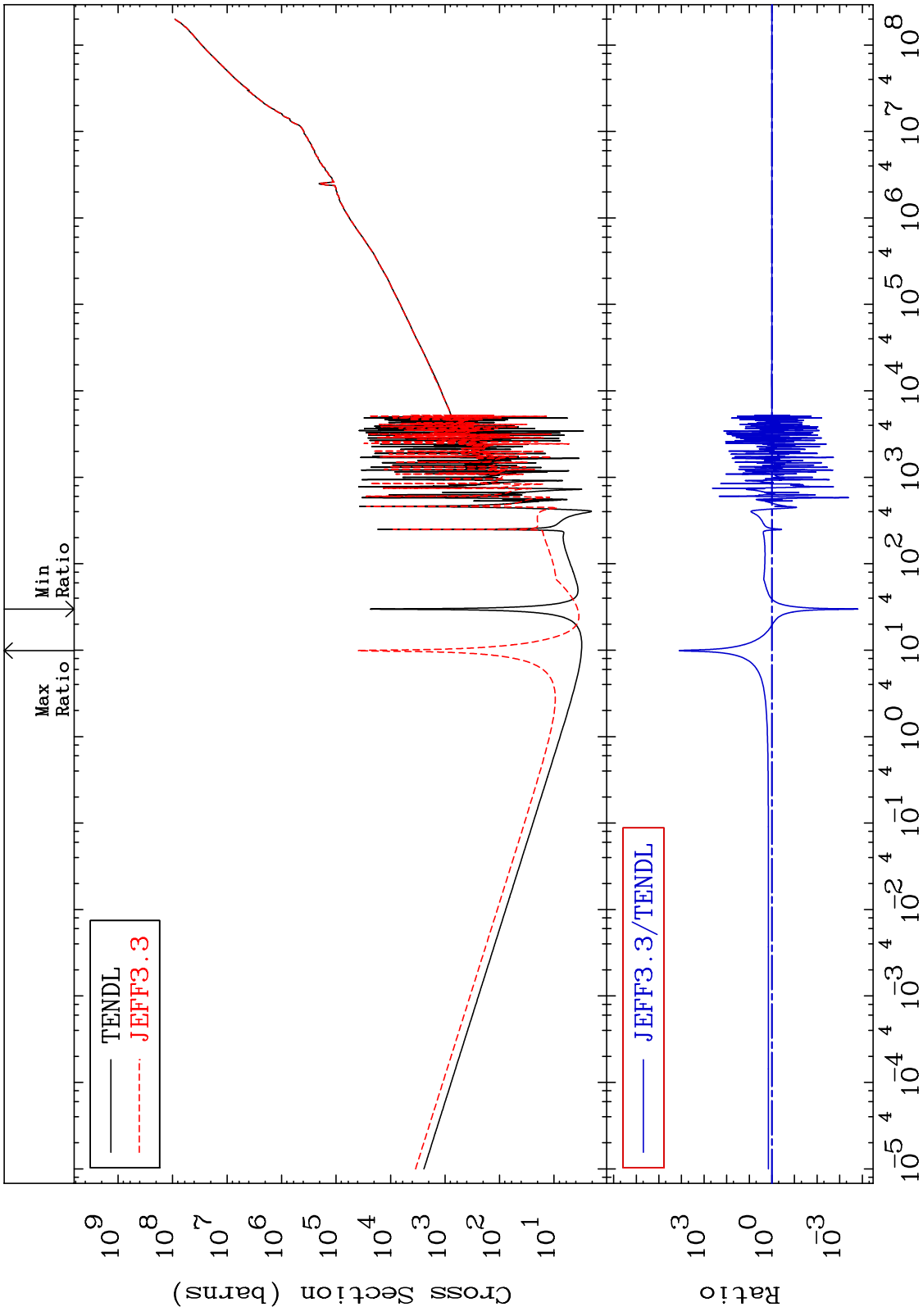


67

Incident Energy (eV)

54-Xe-126

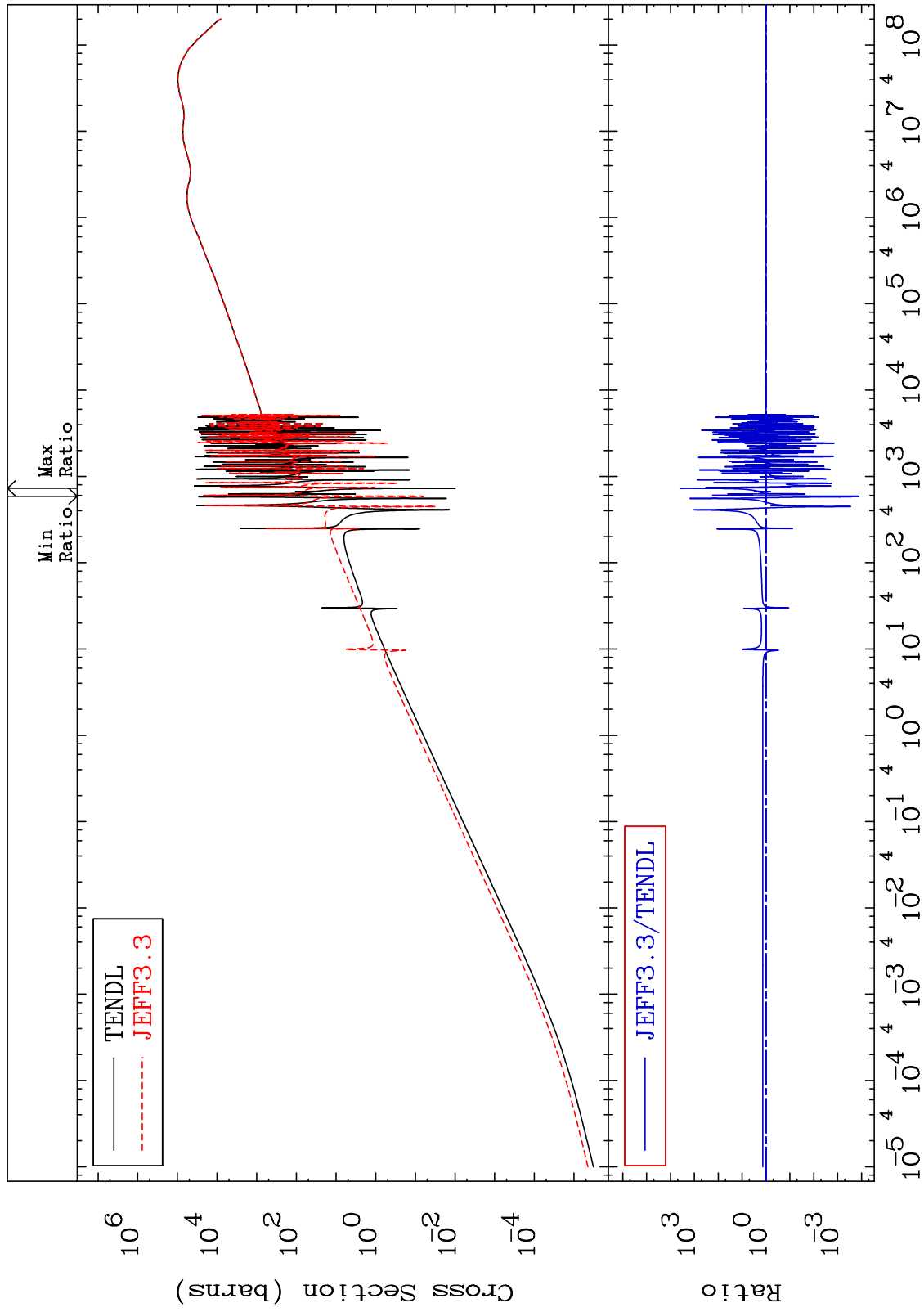
MAT 5431 Kerma total (eV-barns) 54-Xe-126
 Cross Section -99.98 To 9999. %



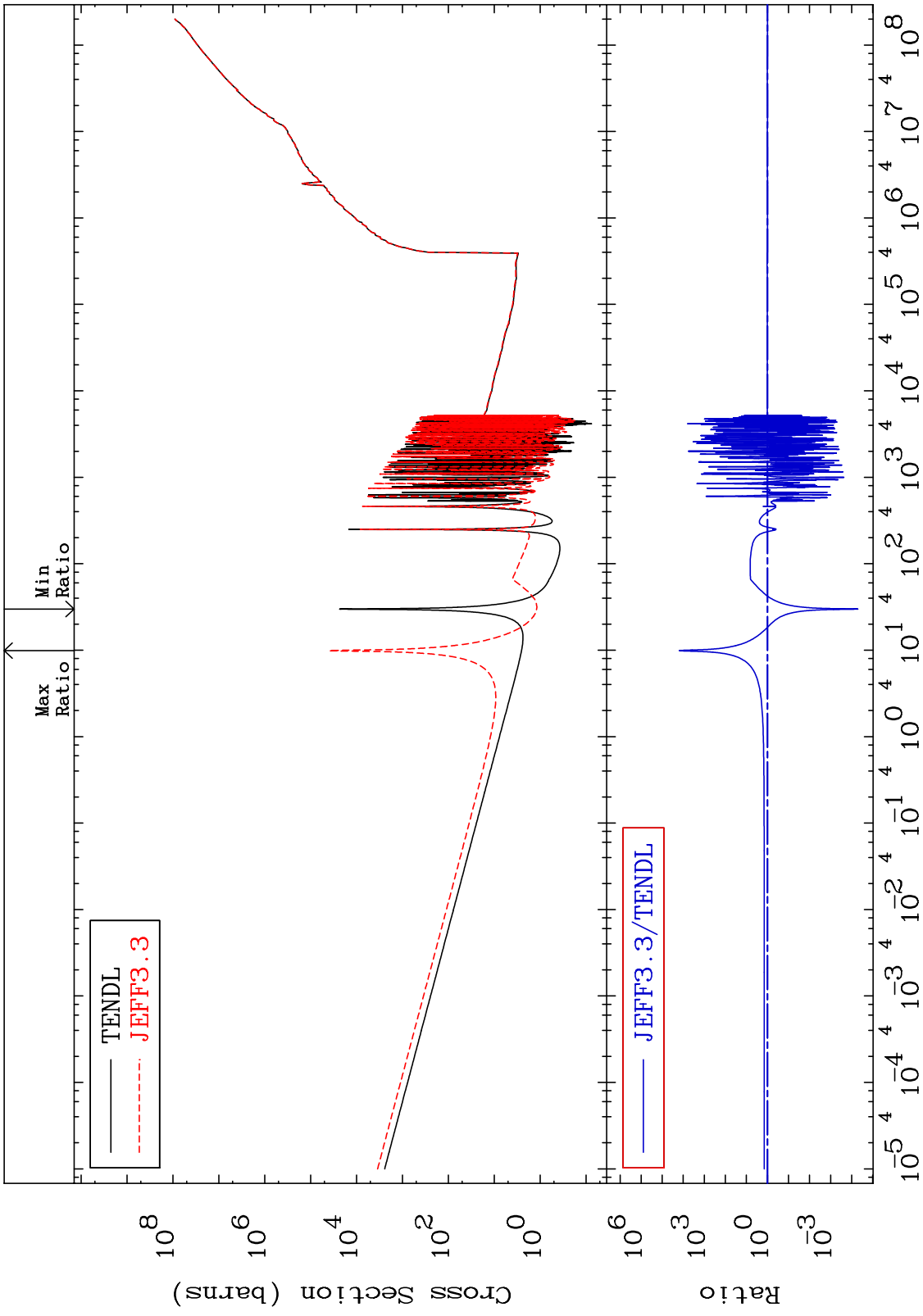
MAT 5431

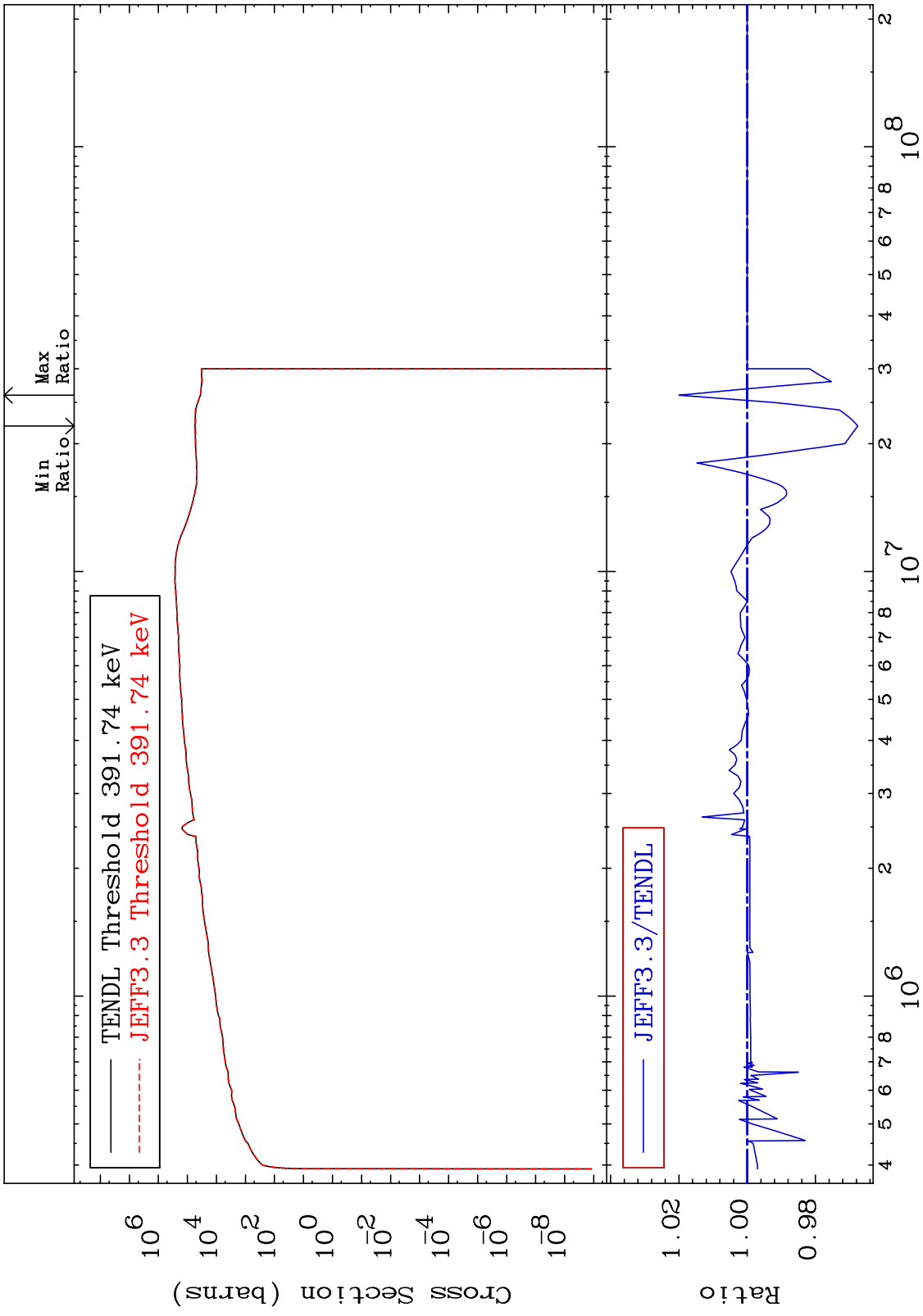
Kerma elastic
Cross Section

54-Xe-126
-99.99 To 9999. %



MAT 5431 Kerma non-elastic (all but mt2) 54-Xe-126
 -99.99 To 9999. %
 Cross Section

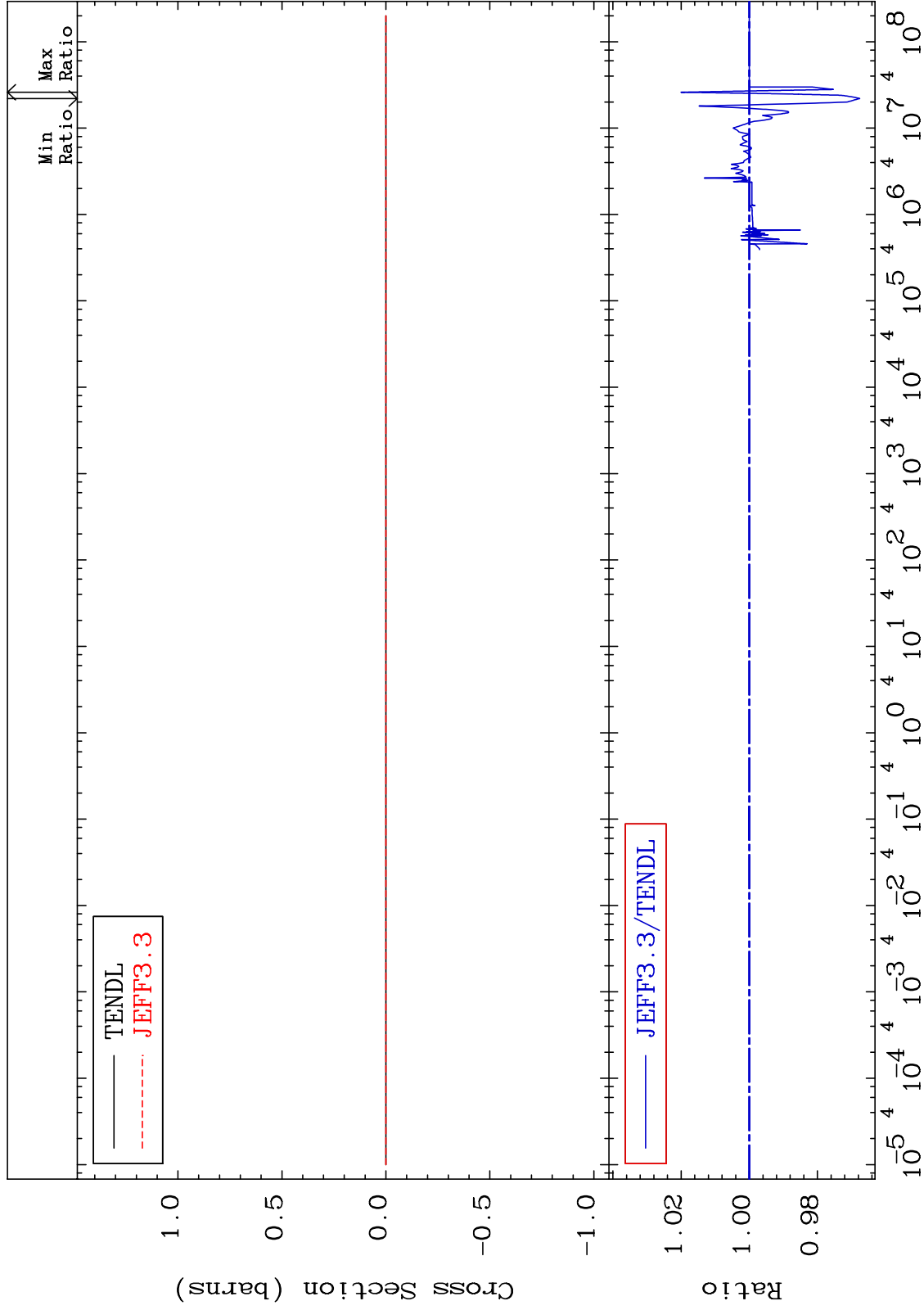




MAT 5431

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

54-Xe-126
-3.242 To 1.996 %



72

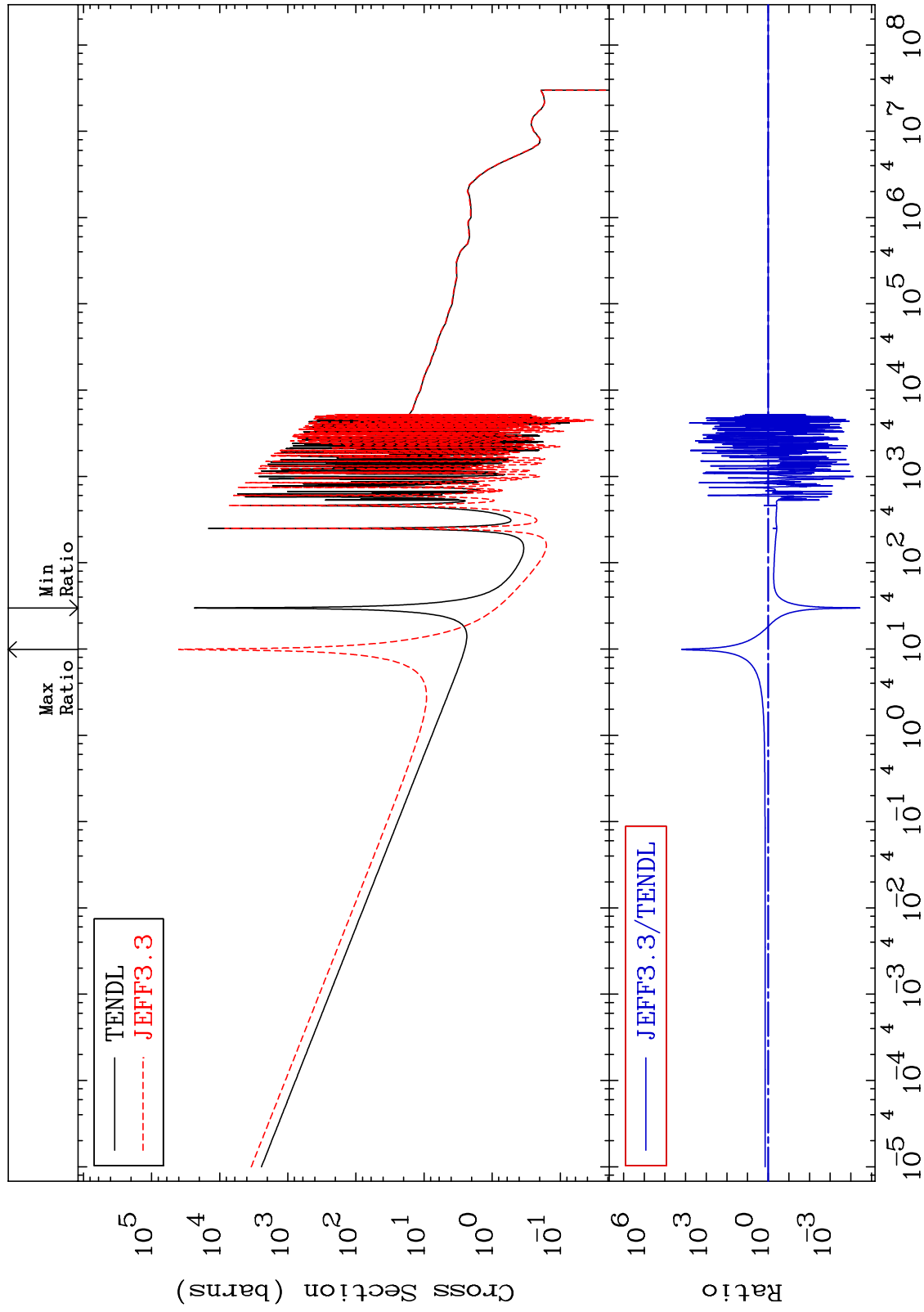
Incident Energy (eV)

54-Xe-126

MAT 5431

Kerma capture (mt102)
Cross Section

54-Xe-126
-100.0 To 9999. %



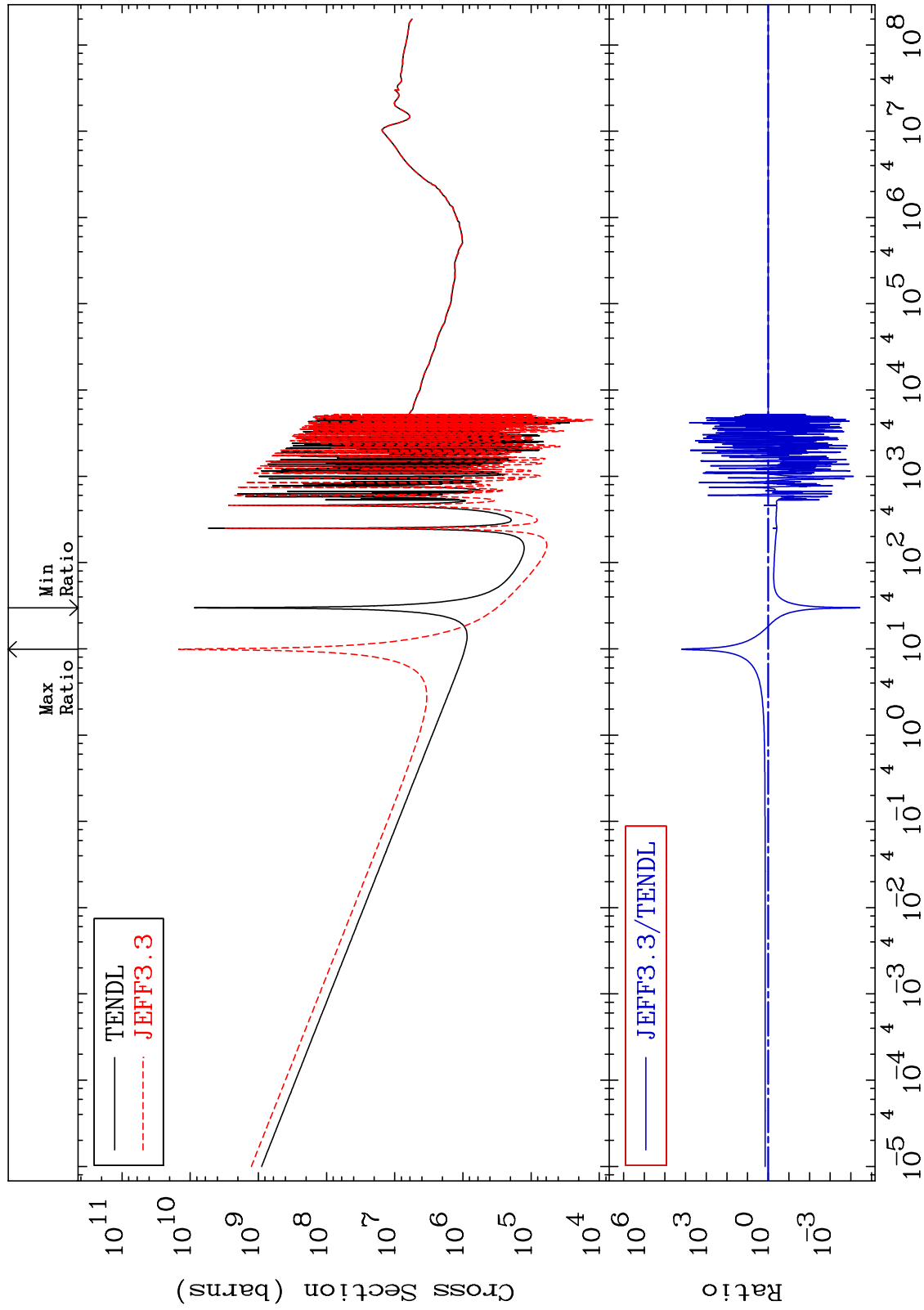
73

54-Xe-126

MAT 5431

Total photon (eV-barns)
Cross Section

54-Xe-126
-100.0 To 9999. %

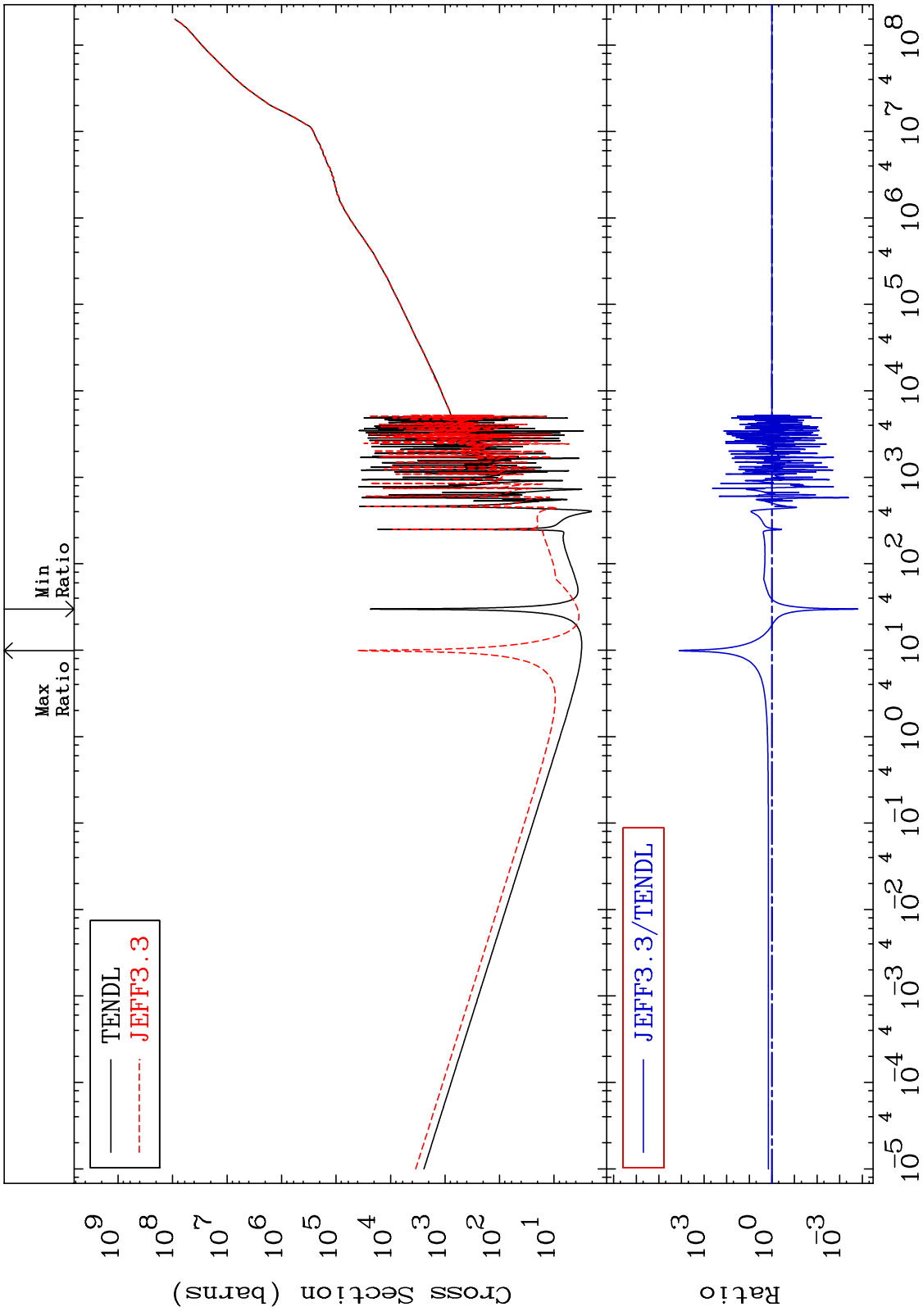


74

Incident Energy (eV)

54-Xe-126

MAT 5431 Total kinematic kerma (high limit) 54-Xe-126
Cross Section -99.98 To 9999. %



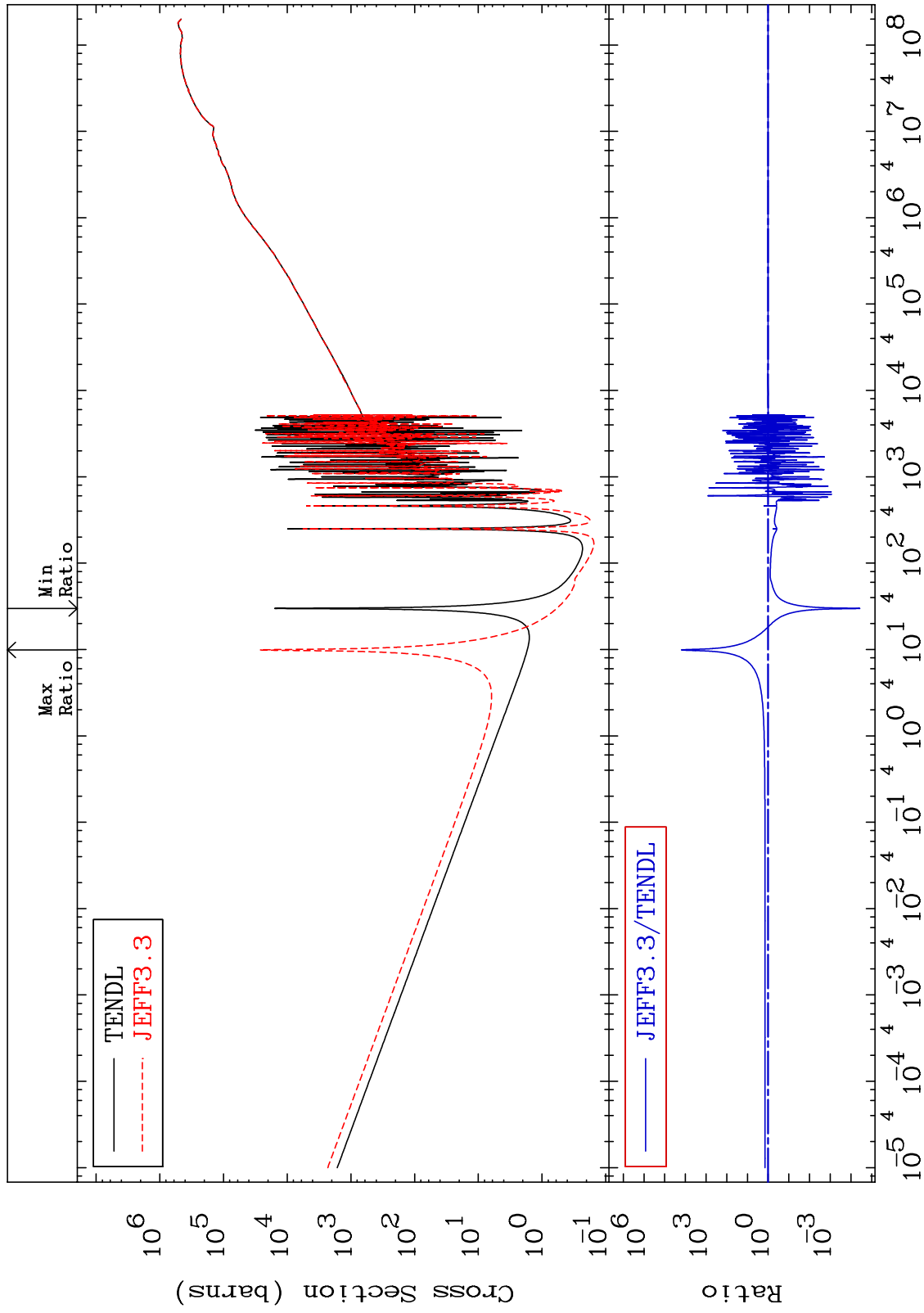
MAT 5431

Dpa total (eV-barns)

54-Xe-126

-100.0 To 9999. %

Cross Section



76

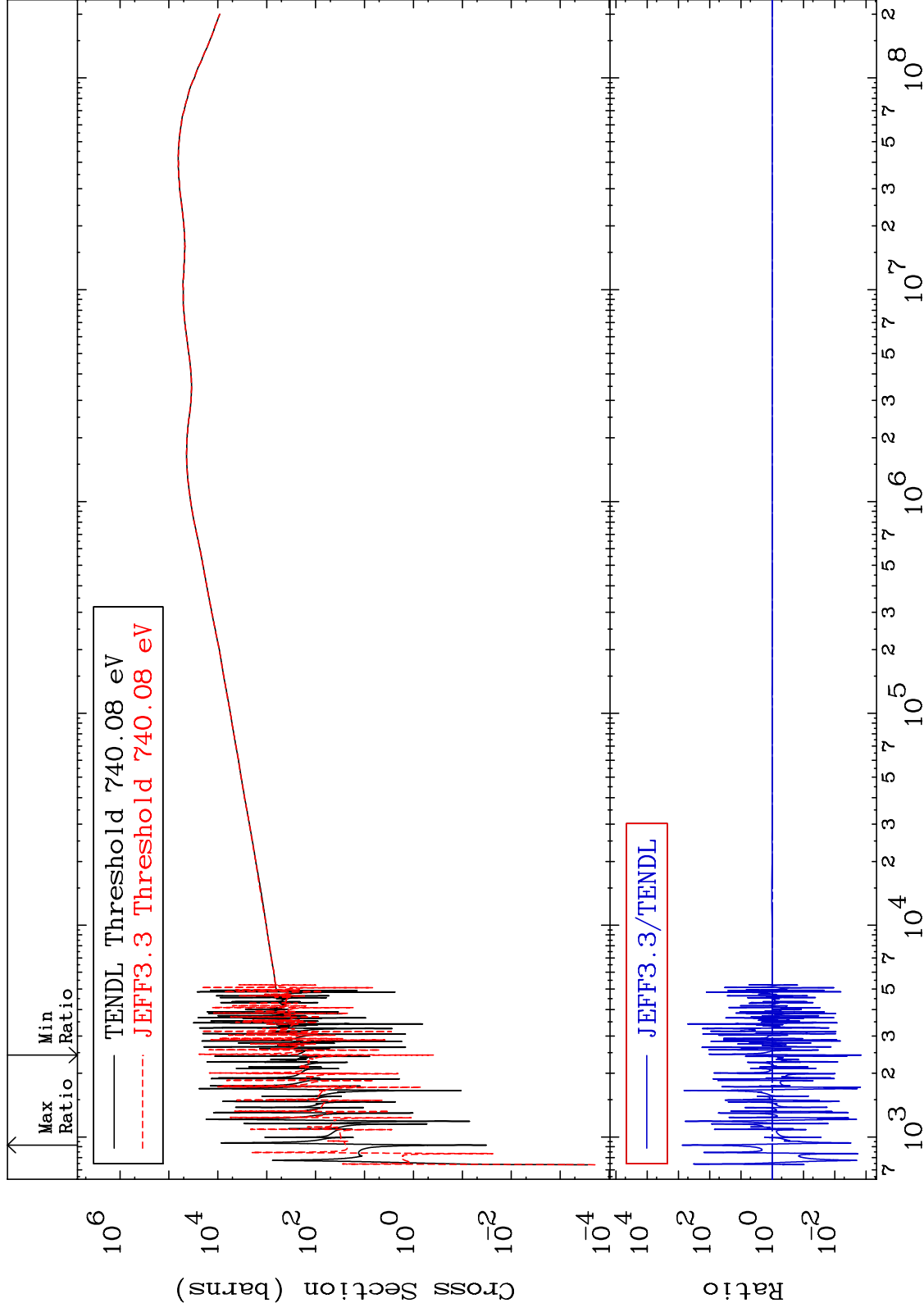
Incident Energy (eV)

54-Xe-126

MAT 5431

Dpa elastic (mt2)
Cross Section

54-Xe-126
-99.86 To 9999. %



77

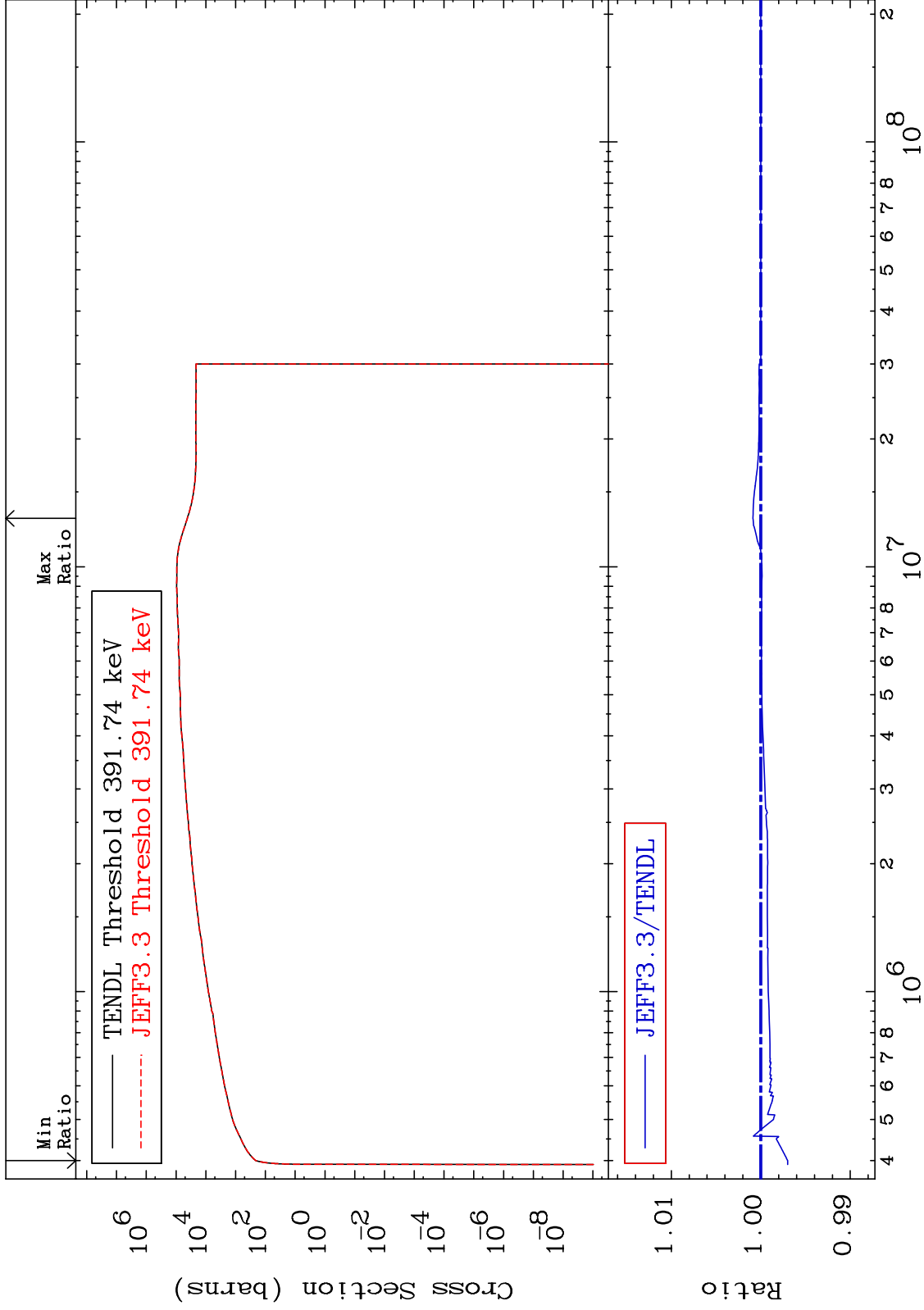
Incident Energy (eV)

54-Xe-126

MAT 5431

Dpa inelastic (mt51-91)
Cross Section

54-Xe-126
-0.299 To 0.088 %



78

Incident Energy (eV)

54-Xe-126

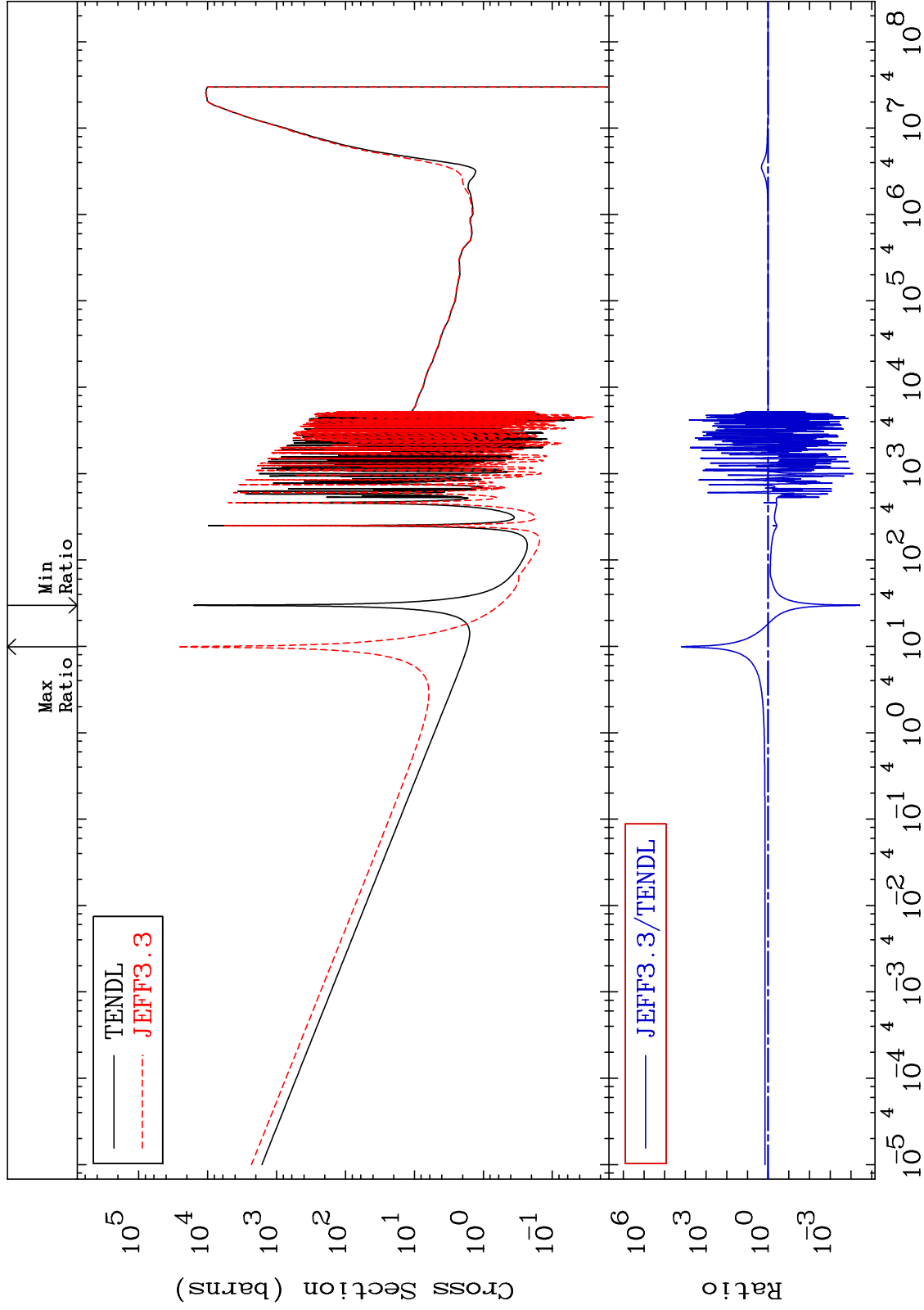
MAT 5431

Dpa disappearance (mt102 -120)

54-Xe-126

-100.0 To 9999. %

Cross Section

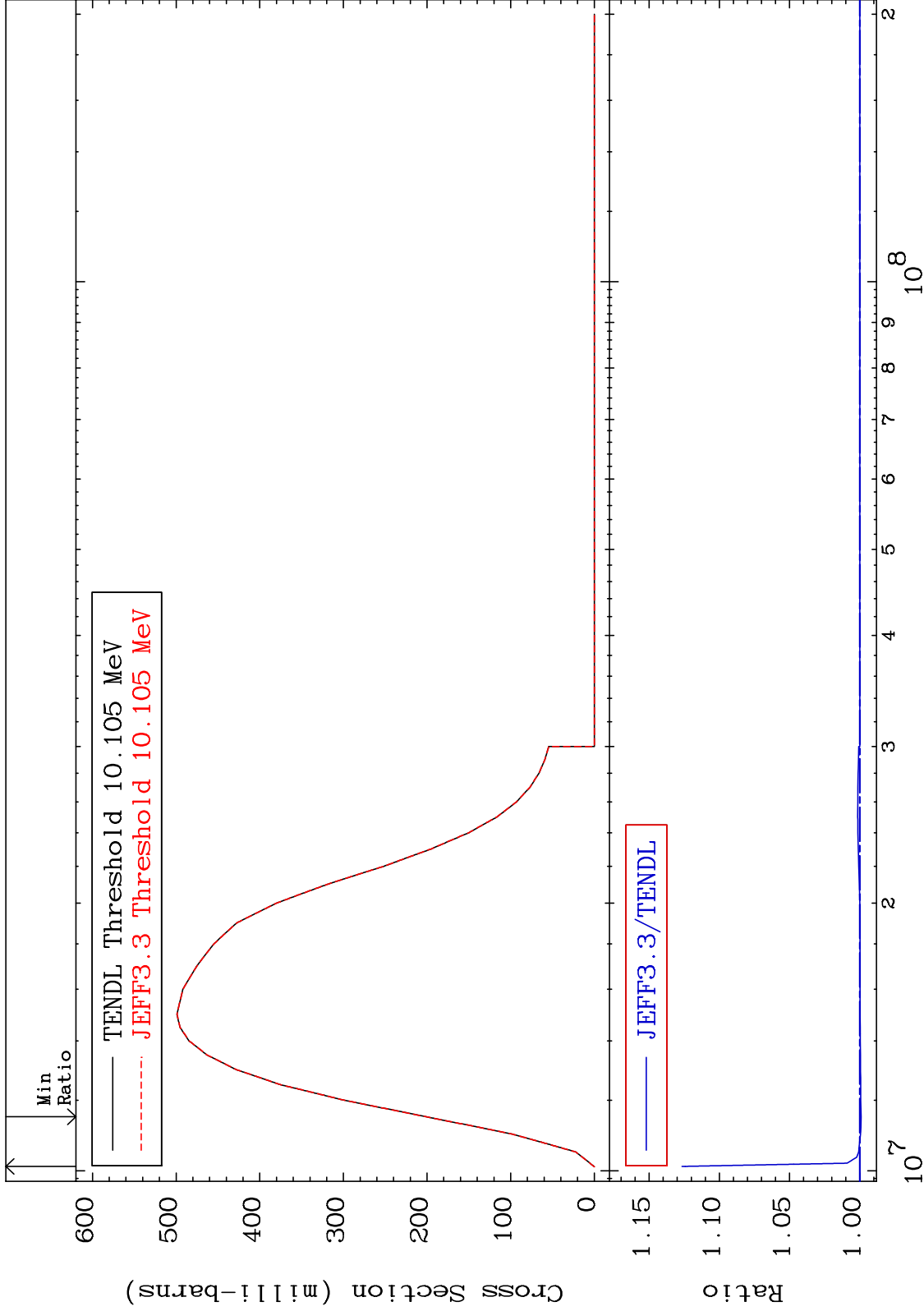


MAT 5431

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

54-Xe-126

Radionuclide Production Cross Section -0.101 To 12.66 %



80

Incident Energy (eV)

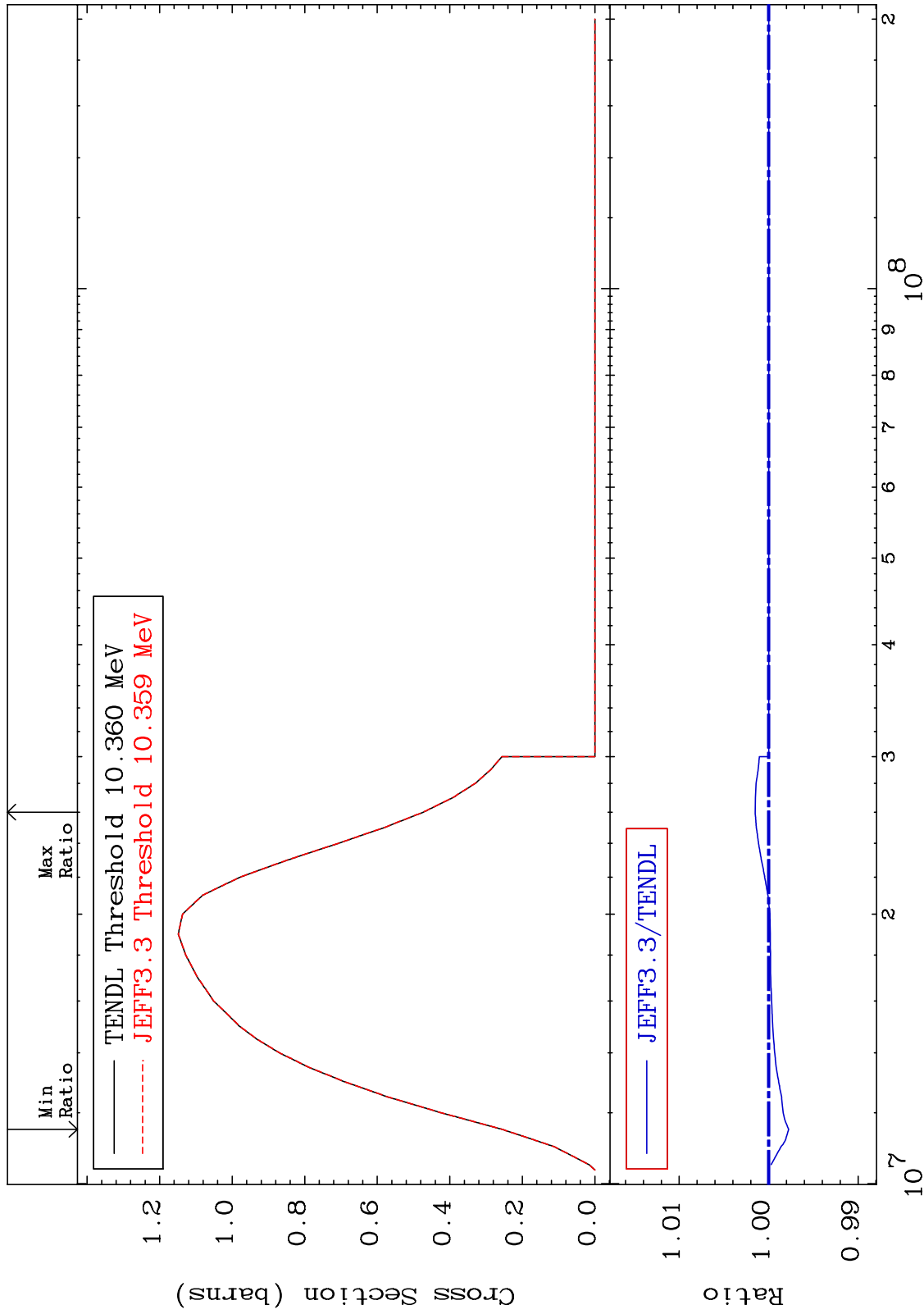
54-Xe-126

MAT 5431

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

54-Xe-126

Radionuclide Production Cross Section -0.223 To 0.151 %



81

Incident Energy (eV)

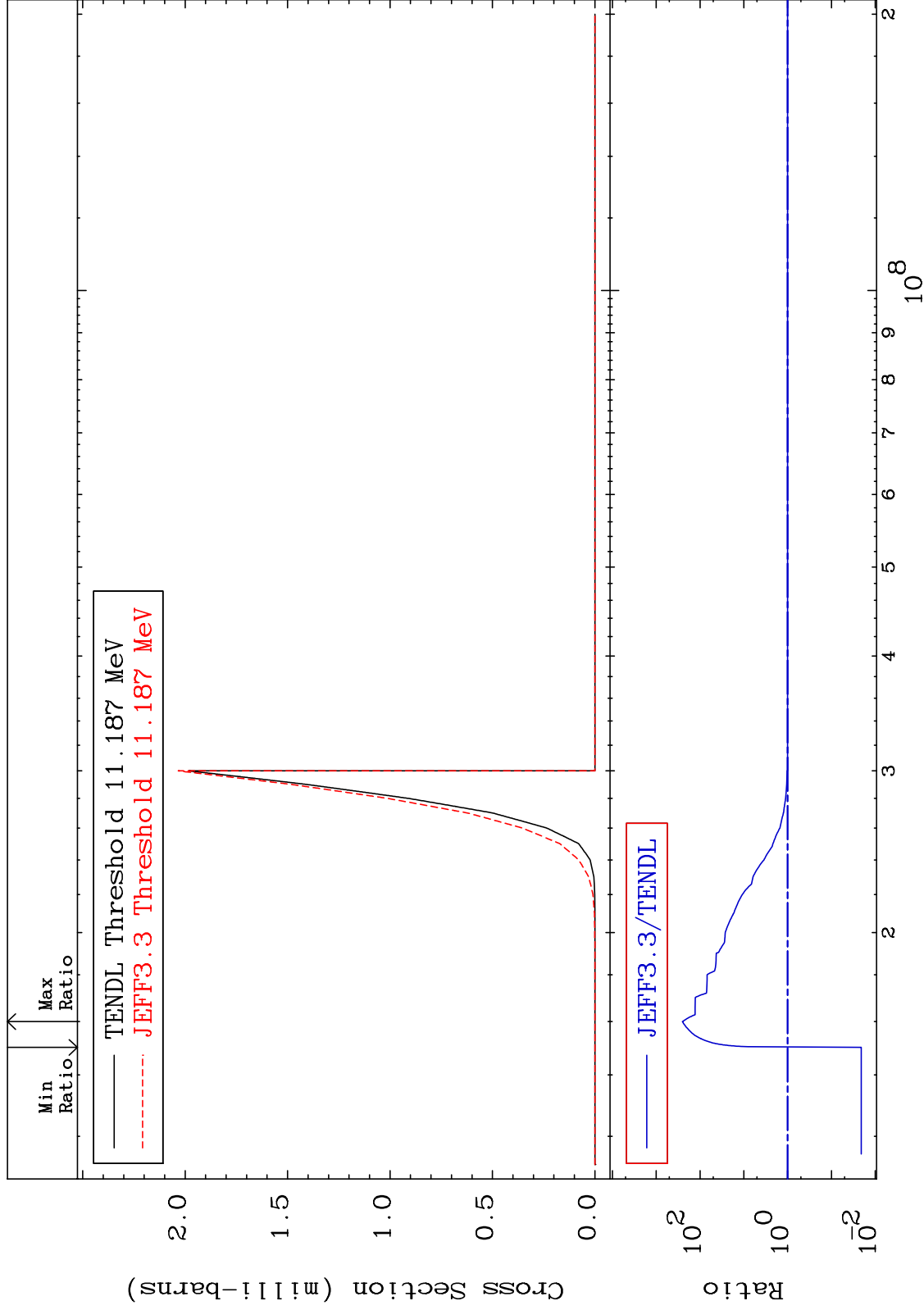
54-Xe-126

MAT 5431

(n,2n) α :52-Te-121g

54-Xe-126

Radionuclide Production Cross Section -97.91 To 9999. %



82

Incident Energy (eV)

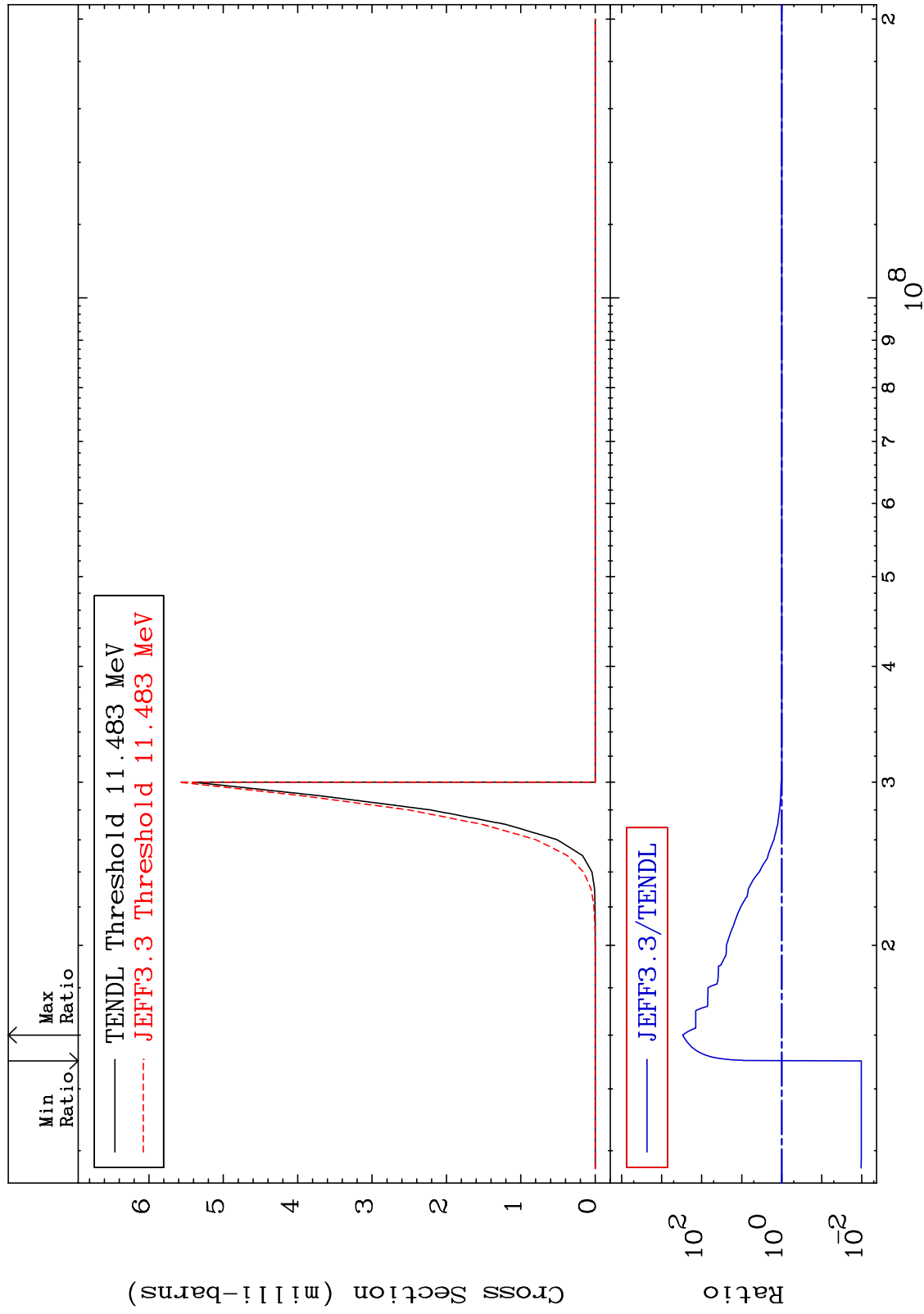
54-Xe-126

MAT 5431

(n,2n) α :52-Te-121m2

54-Xe-126

Radionuclide Production Cross Section -98.98 To 9999. %



83

Incident Energy (eV)

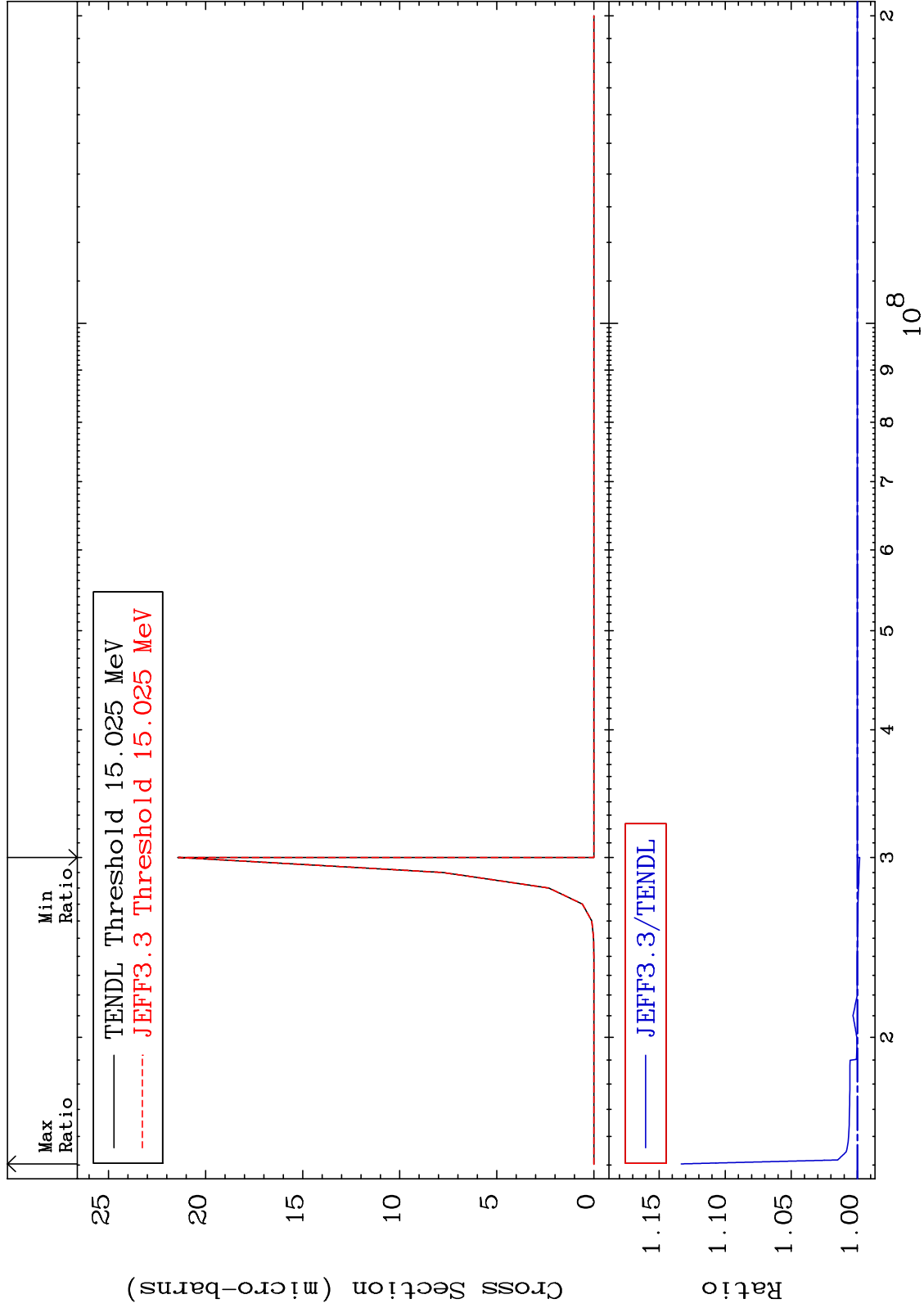
54-Xe-126

MAT 5431

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

54-Xe-126

Radionuclide Production Cross Section -0.180 To 13.32 %

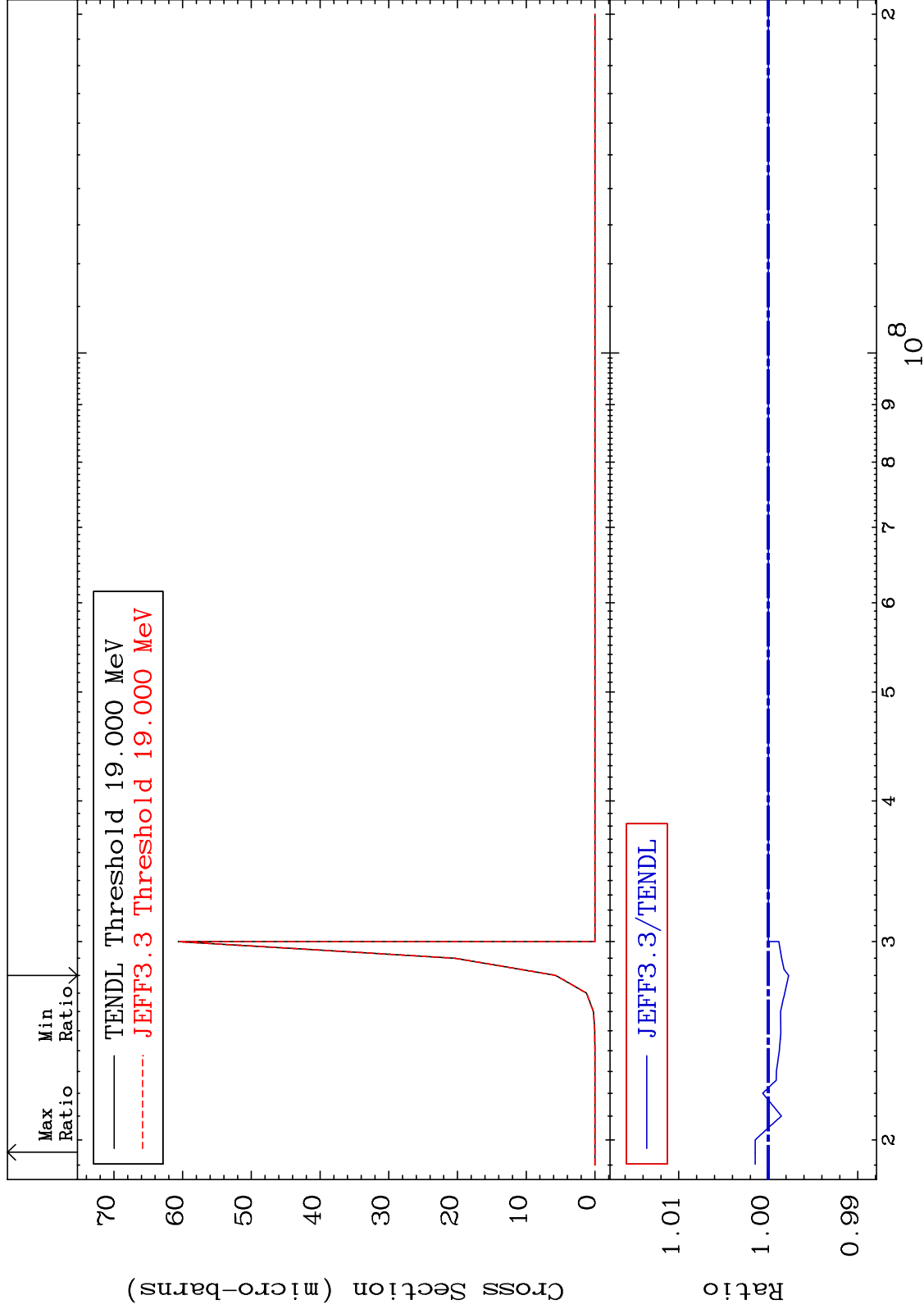


MAT 5431

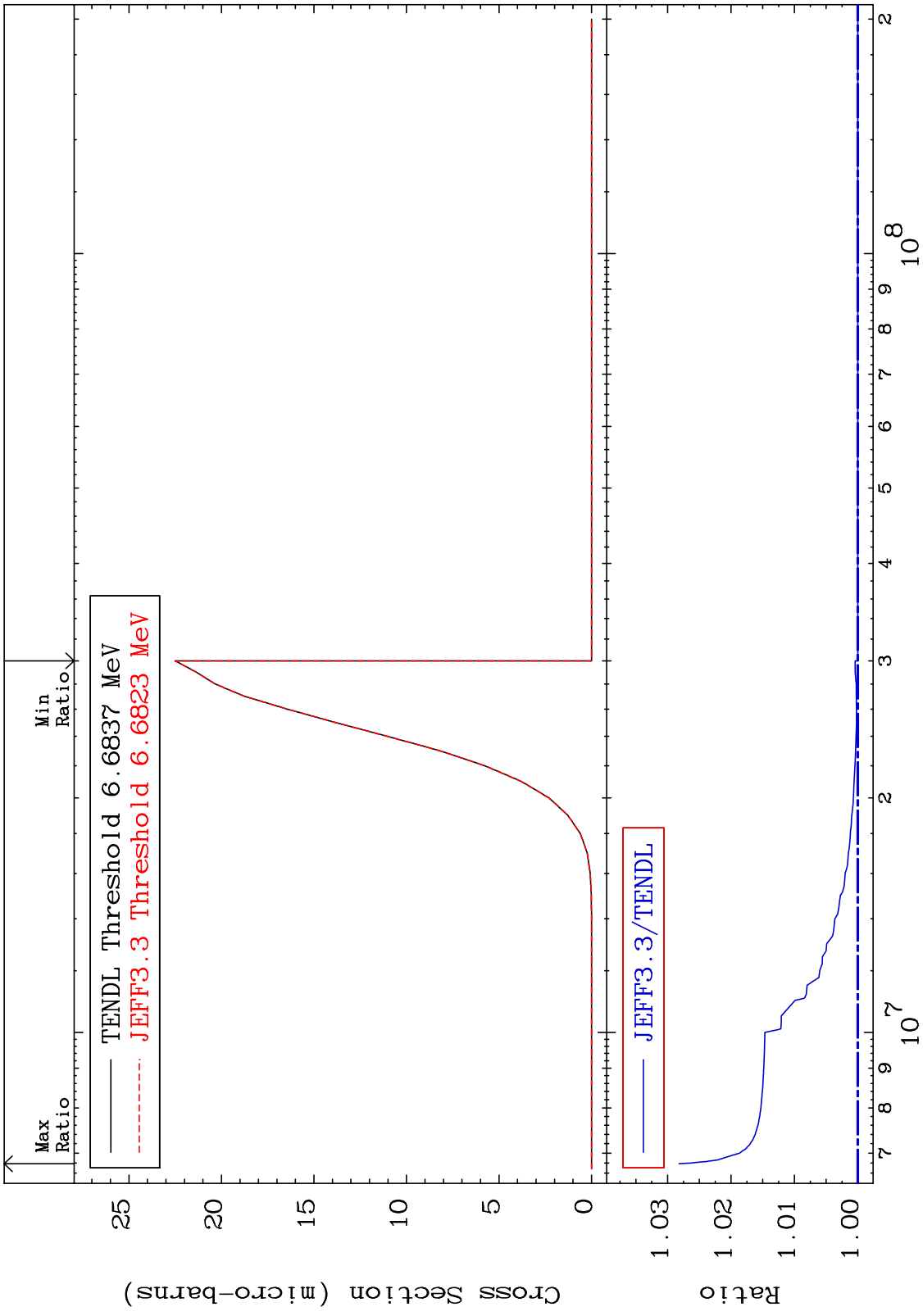
(n, n') He-3:52-Te-123m2

54-Xe-126

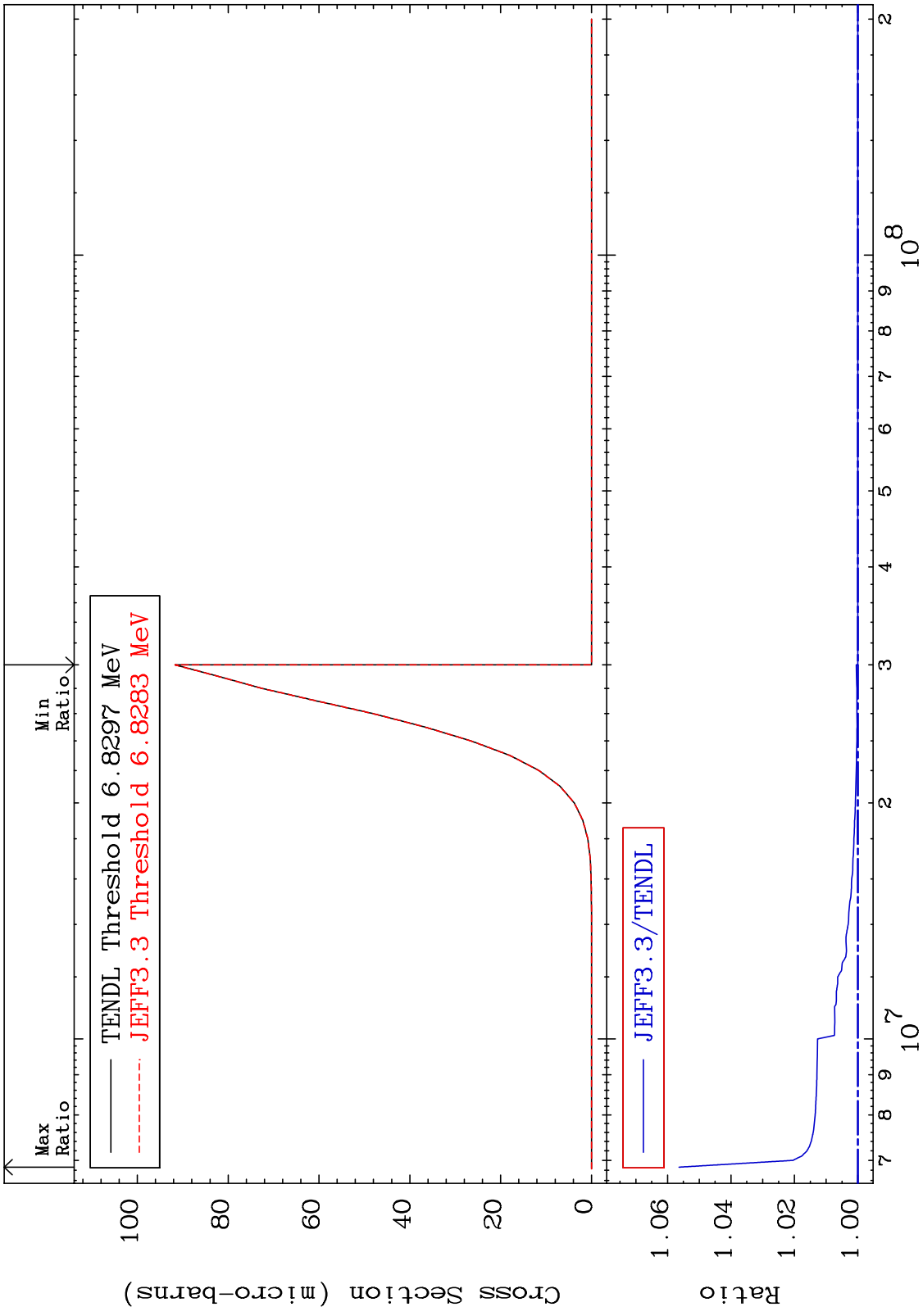
Radionuclide Production Cross Section -0.228 To 0.146 %



MAT 5431 (n,2p):52-Te-125g 54-Xe-126
 Radionuclide Production Cross Section 0.000 To 2.820 %

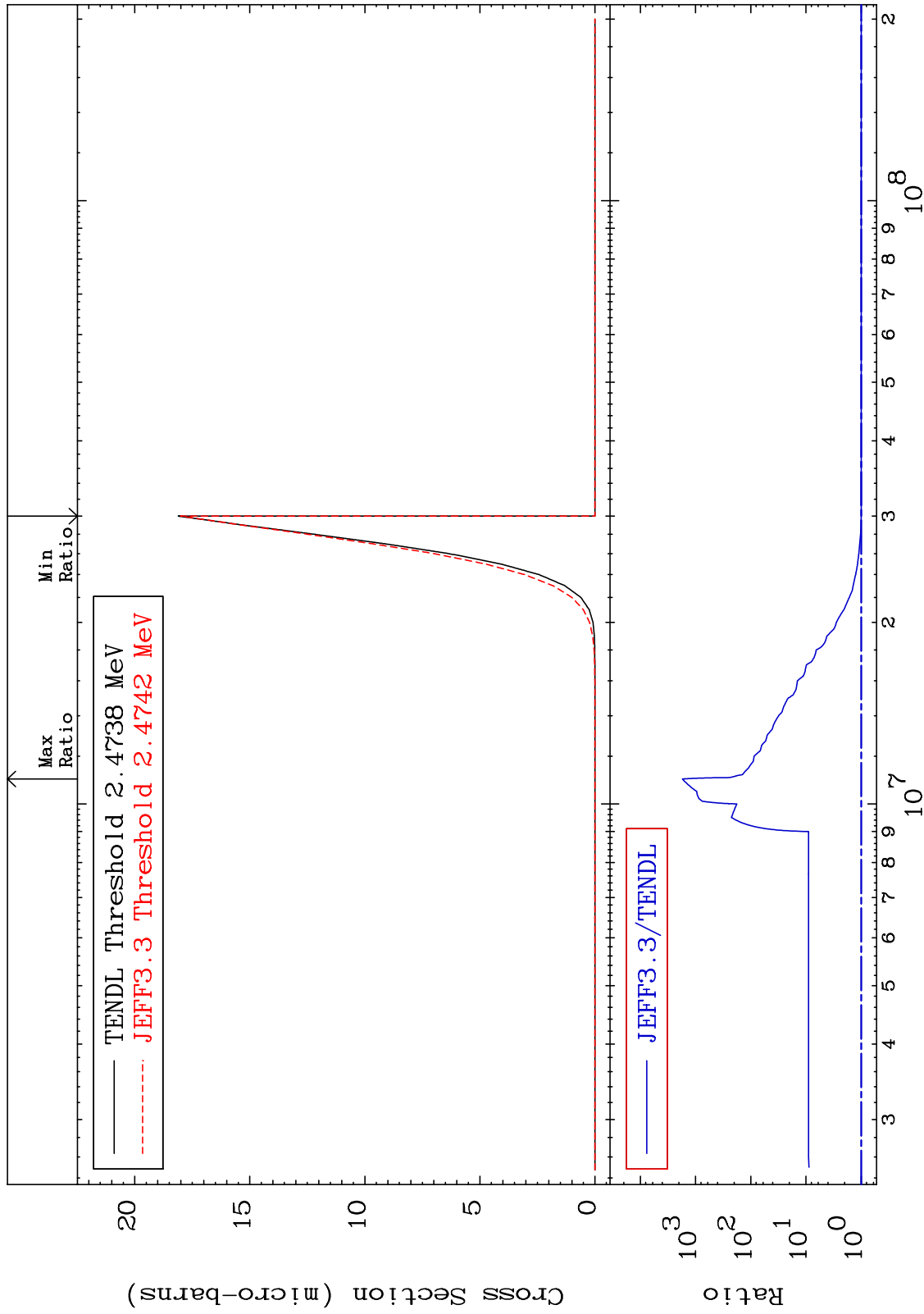


MAT 5431 (n,2p):52-Te-125m2 54-Xe-126
 Radionuclide Production Cross Section 0.000 To 5.638 %



MAT 5431

(n,p) α :51-Sb-122g 54-Xe-126
Radionuclide Production Cross Section -0.570 To 9999. %

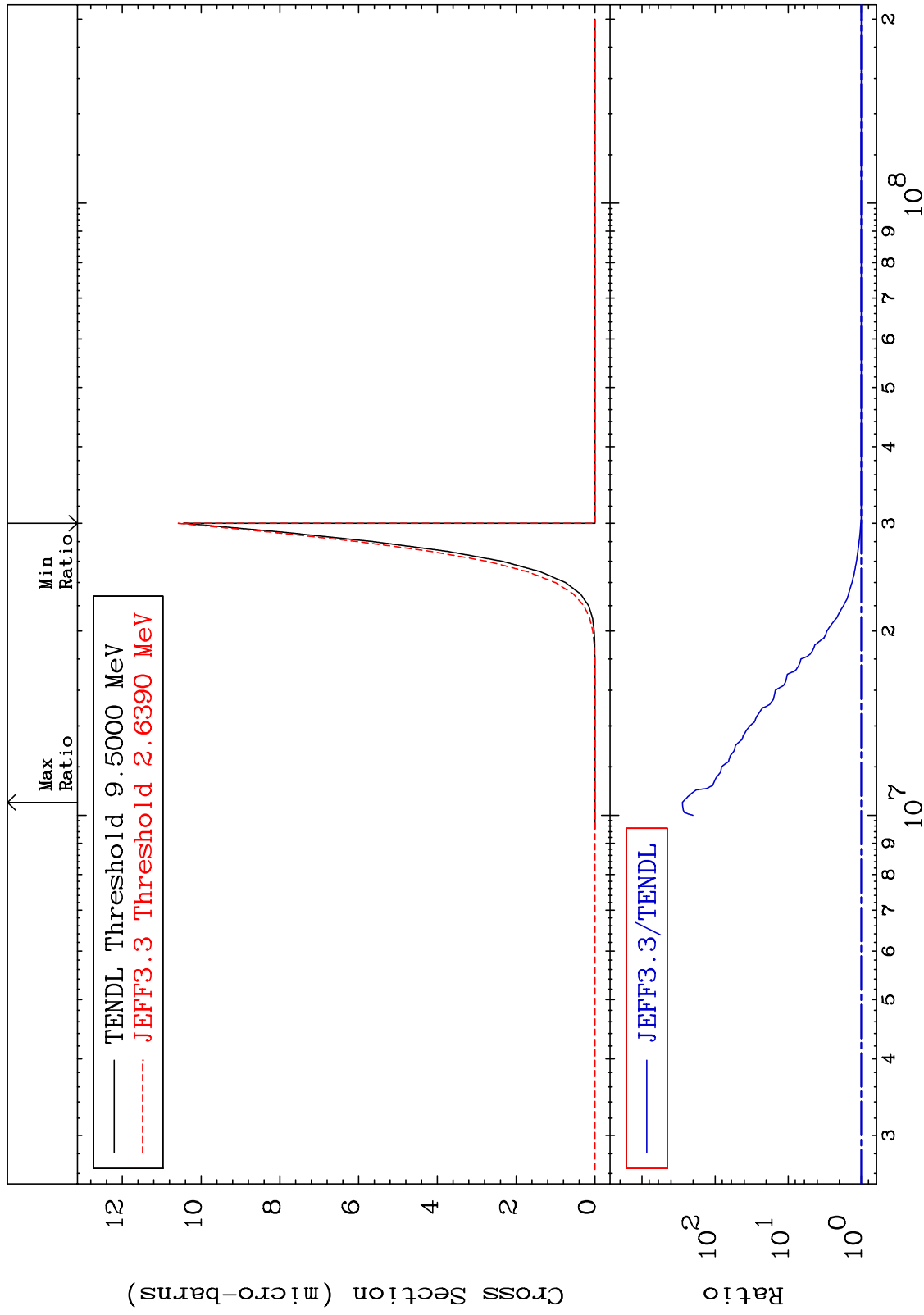


MAT 5431

(n, p) α :51-Sb-122m5

54-Xe-126

Radionuclide Production Cross Section 0.000 To 9999. %

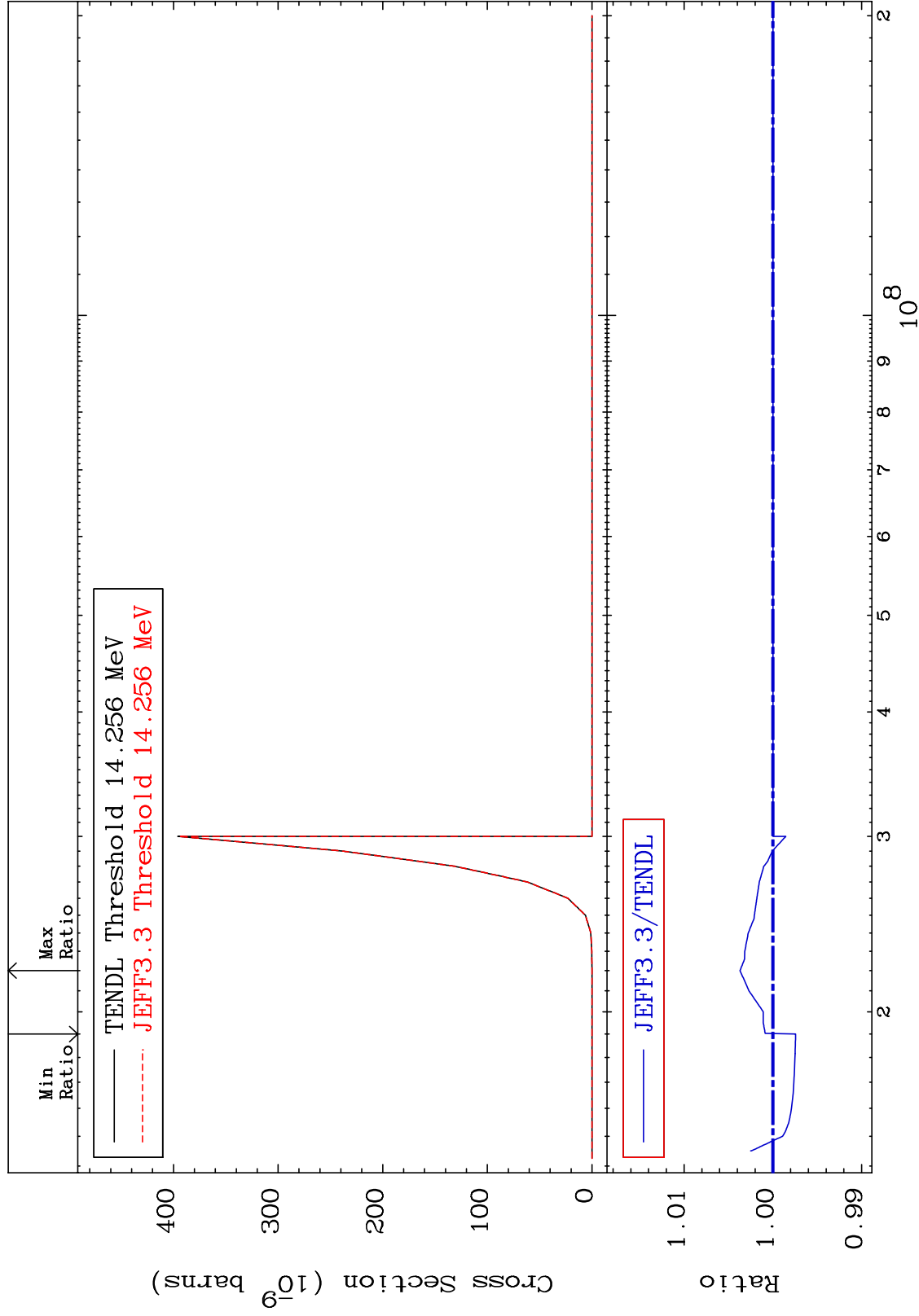


MAT 5431

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

54-Xe-126

Radionuclide Production Cross Section -0.257 To 0.370 %



90

Incident Energy (eV)

54-Xe-126

MAT 5431

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

54-Xe-126

Radionuclide Production Cross Section -0.262 To 0.124 %

