

Program Complot
(Version 2018-1)

by

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Press Mouse Button to Start

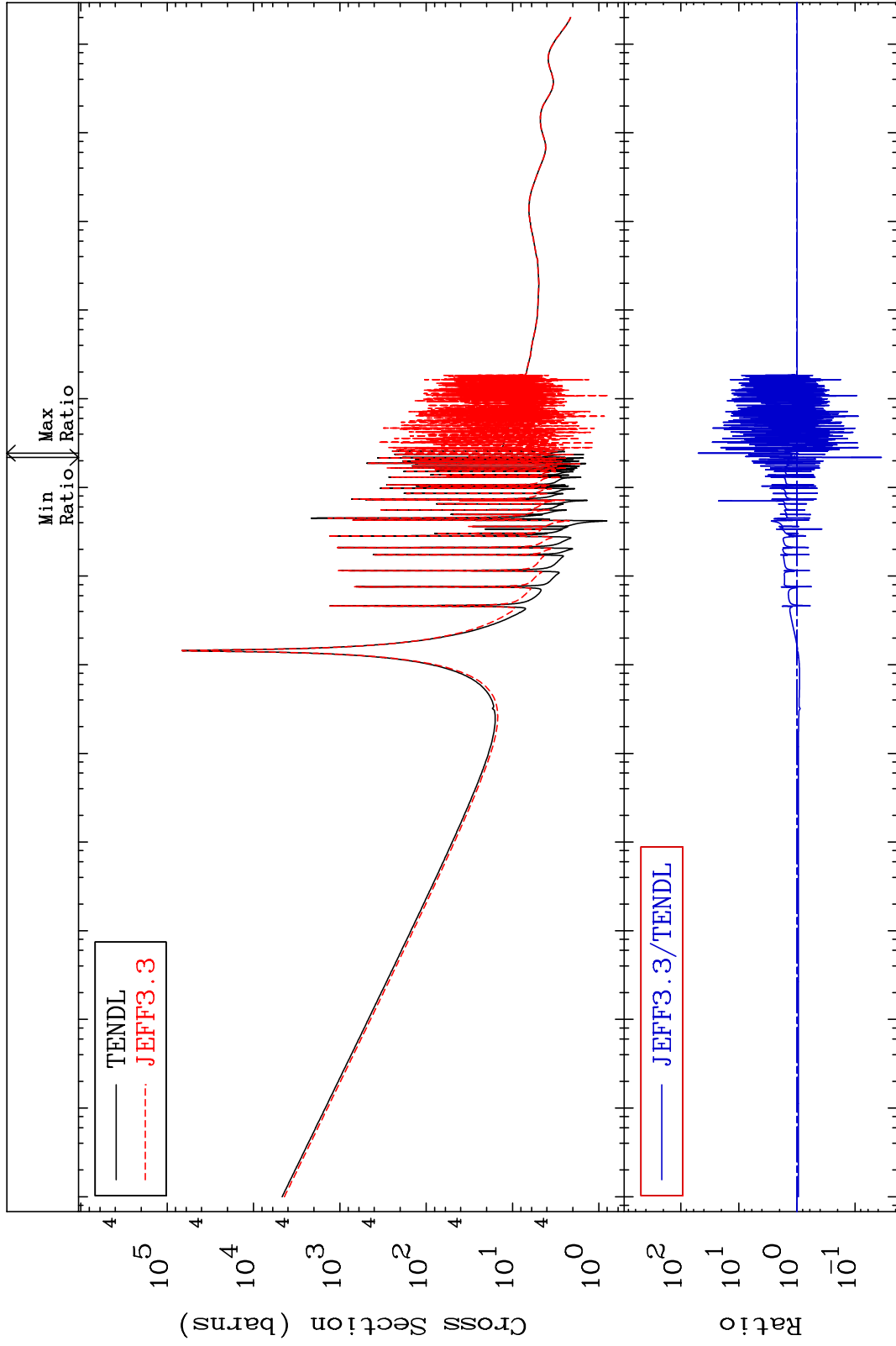
MAT 5446

Total

54-Xe-131

-96.50 To 4883. %

Cross Section



10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

Incident Energy (eV)

54-Xe-131

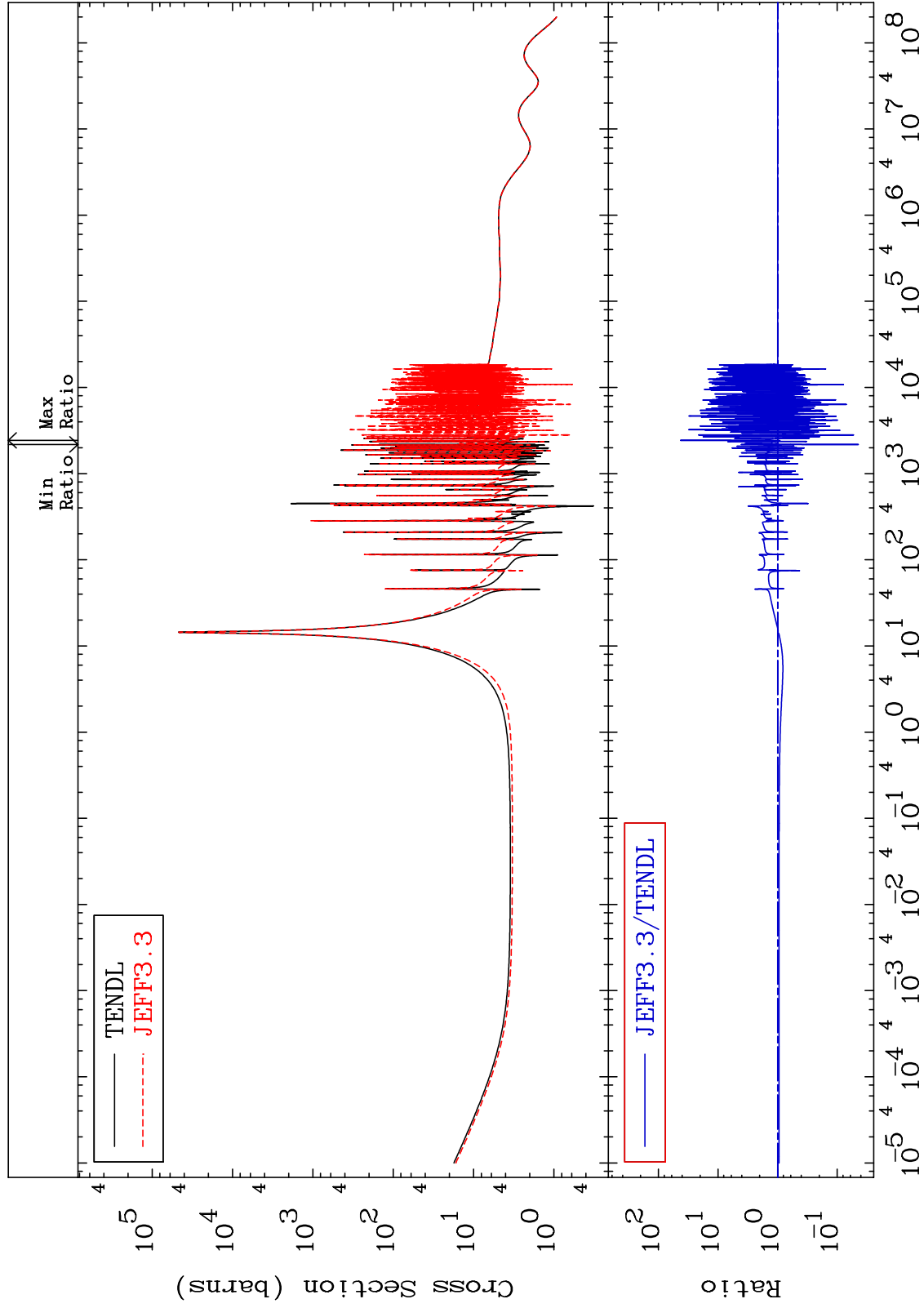
MAT 5446

Elastic

⁵⁴Xe-131

Cross Section

-95.62 To 4174. %



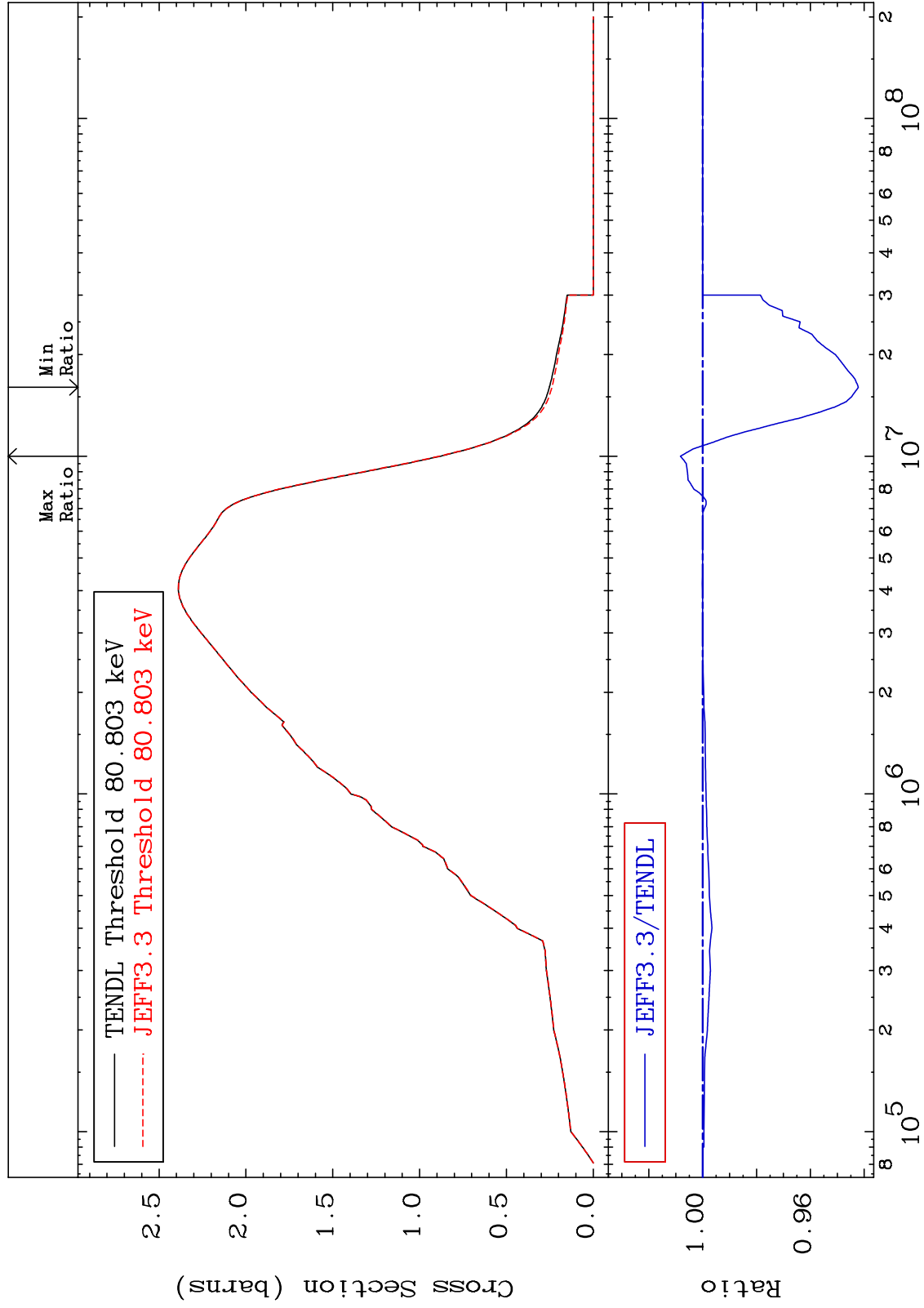
2

Incident Energy (eV)

⁵⁴Xe-131

MAT 5446

Inelastic Cross Section
54-Xe-131
-5.788 To 0.825 %

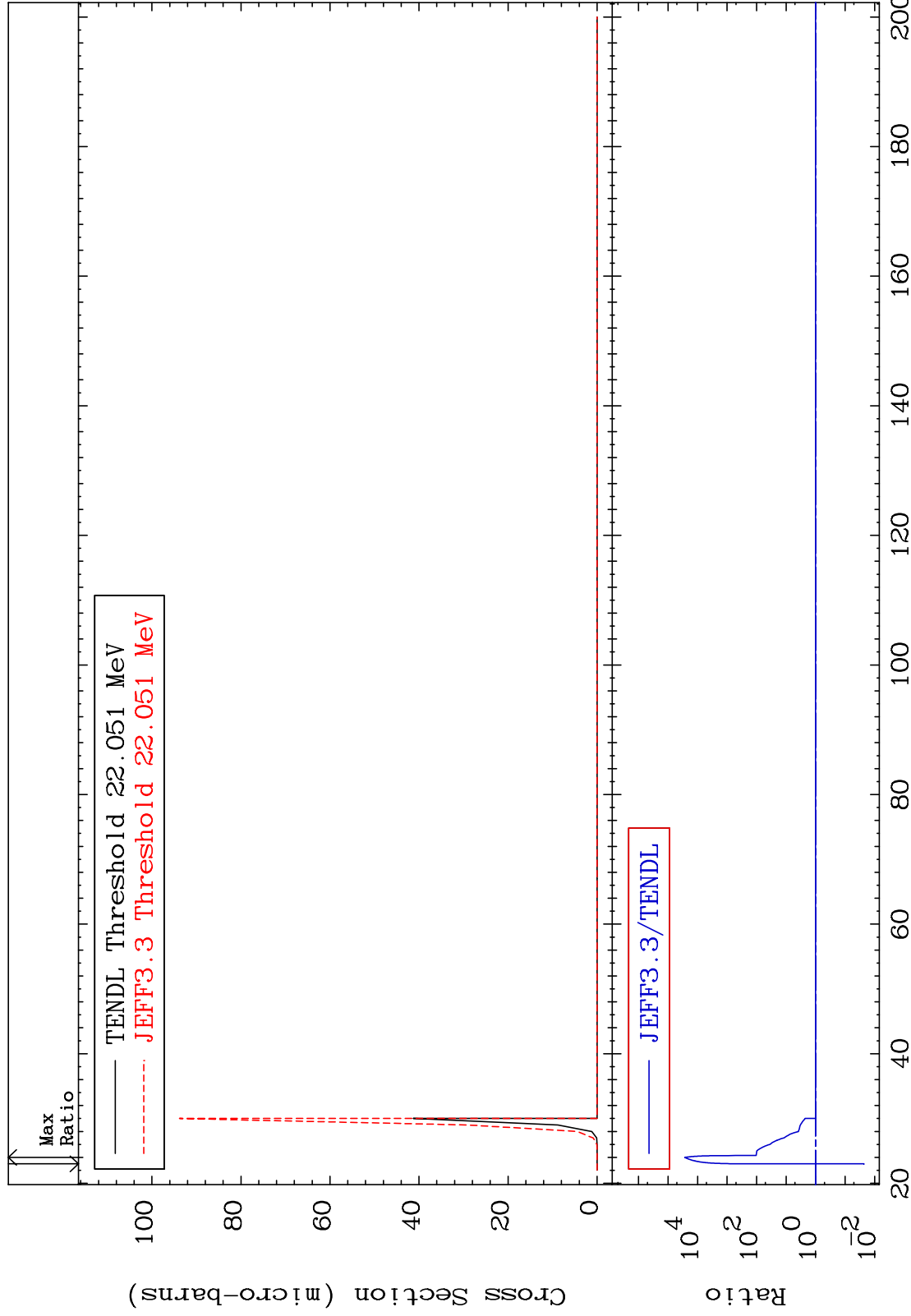


3 Incident Energy (eV) 54-Xe-131

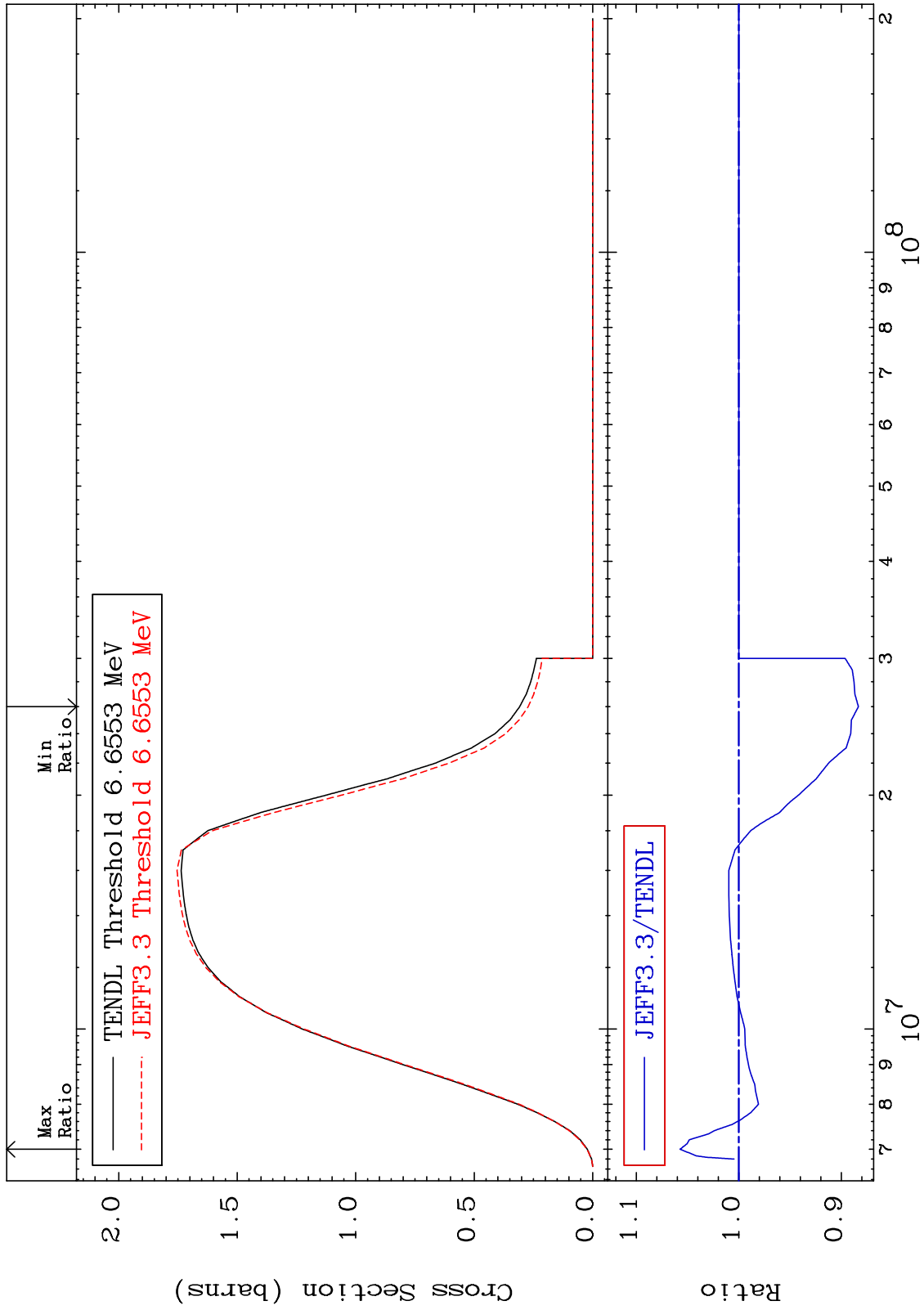
MAT 5446

(n,2n) d
Cross Section

54-Xe-131
-97.71 To 9999. %



MAT 5446 (n,2n) Cross Section 54-Xe-131 -11.66 To 5.735 %



5 54-Xe-131 Incident Energy (eV)

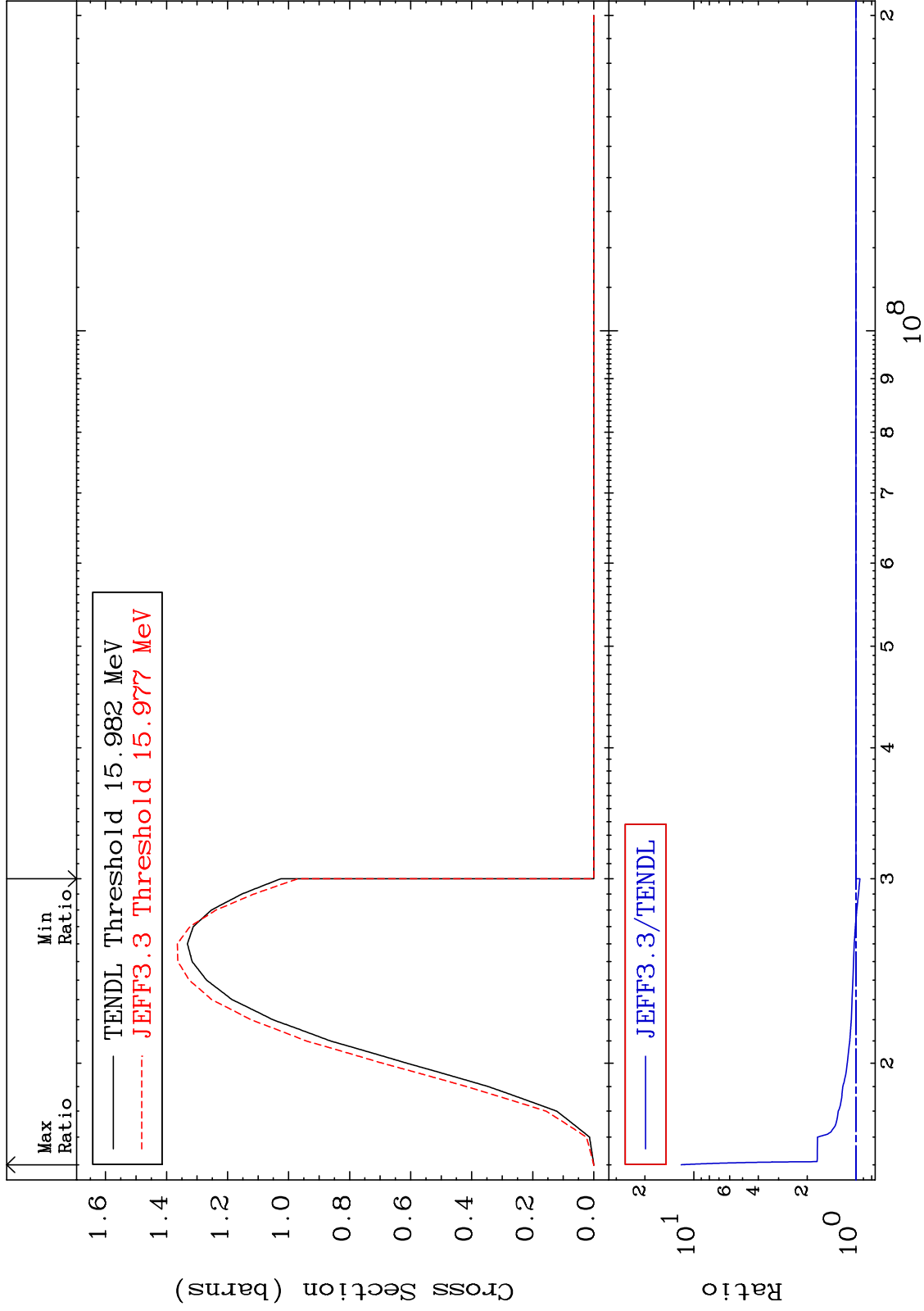
MAT 5446

(n, 3n)

54-Xe-131

Cross Section

-5.488 To 1094. %



6

Incident Energy (eV)

54-Xe-131

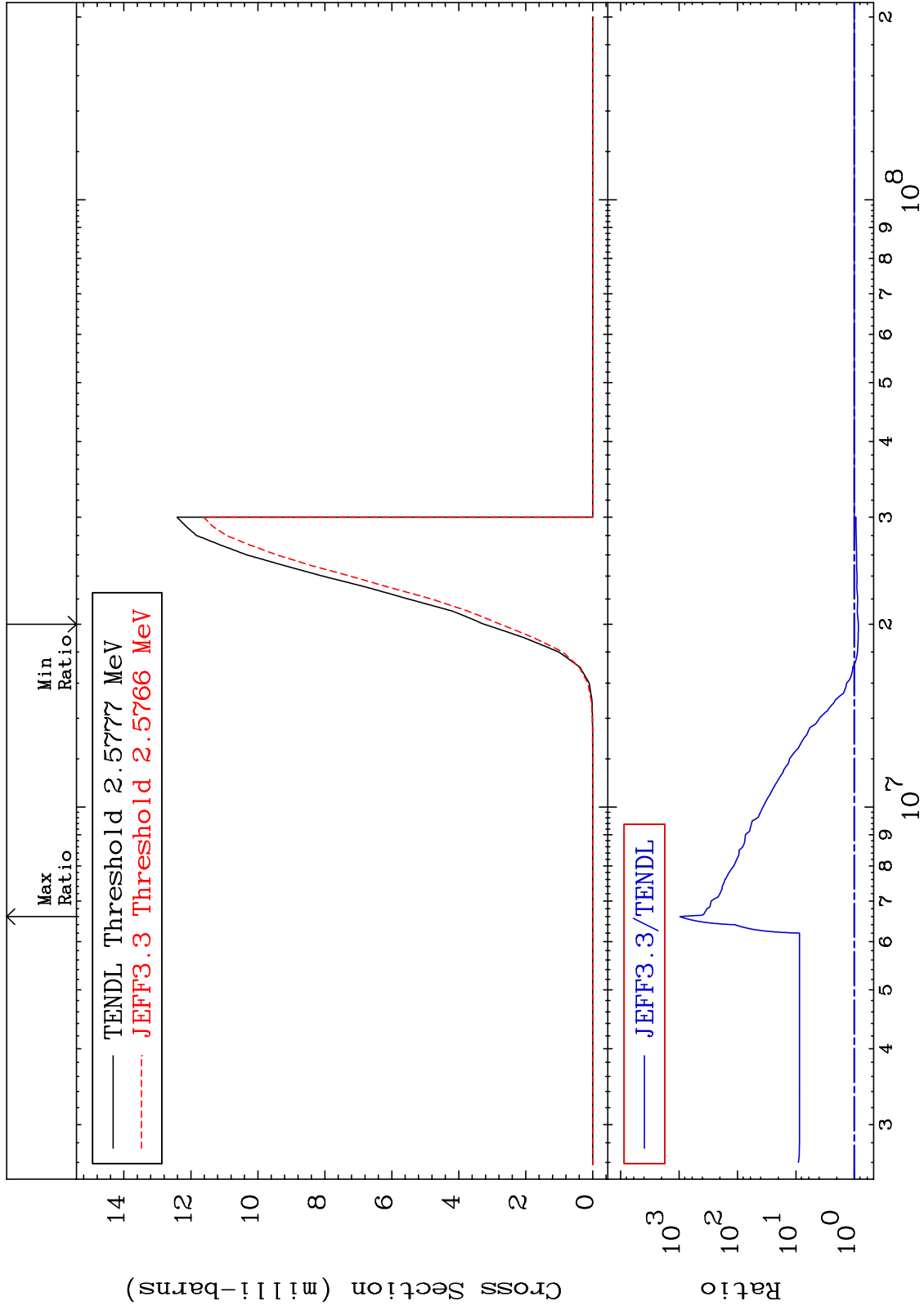
MAT 5446

(n, n') α

54-Xe-131

-15.04 To 9999. %

Cross Section



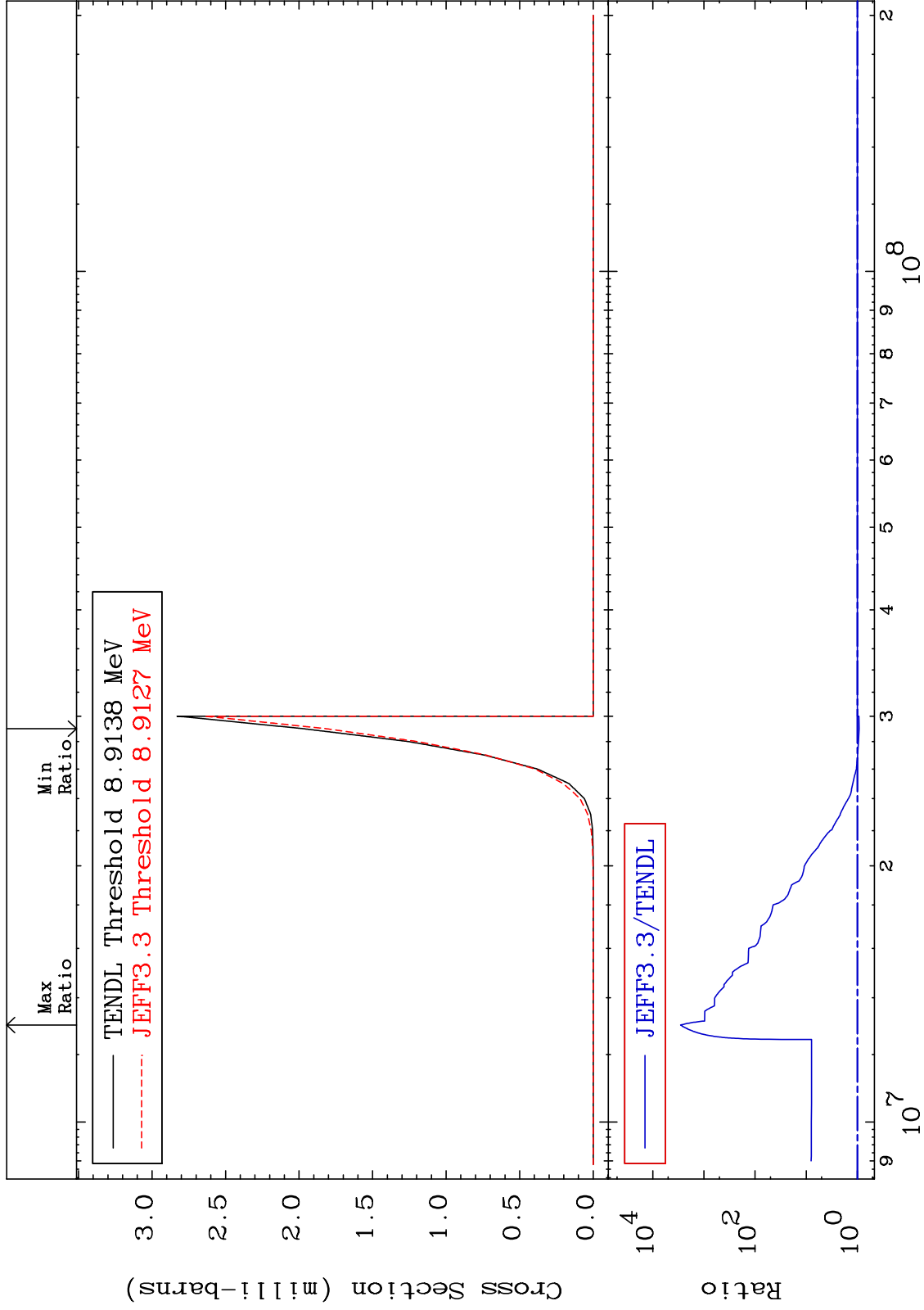
MAT 5446

(n,2n) α

54-Xe-131

Cross Section

-7.920 To 9999. %



8

Incident Energy (eV)

54-Xe-131

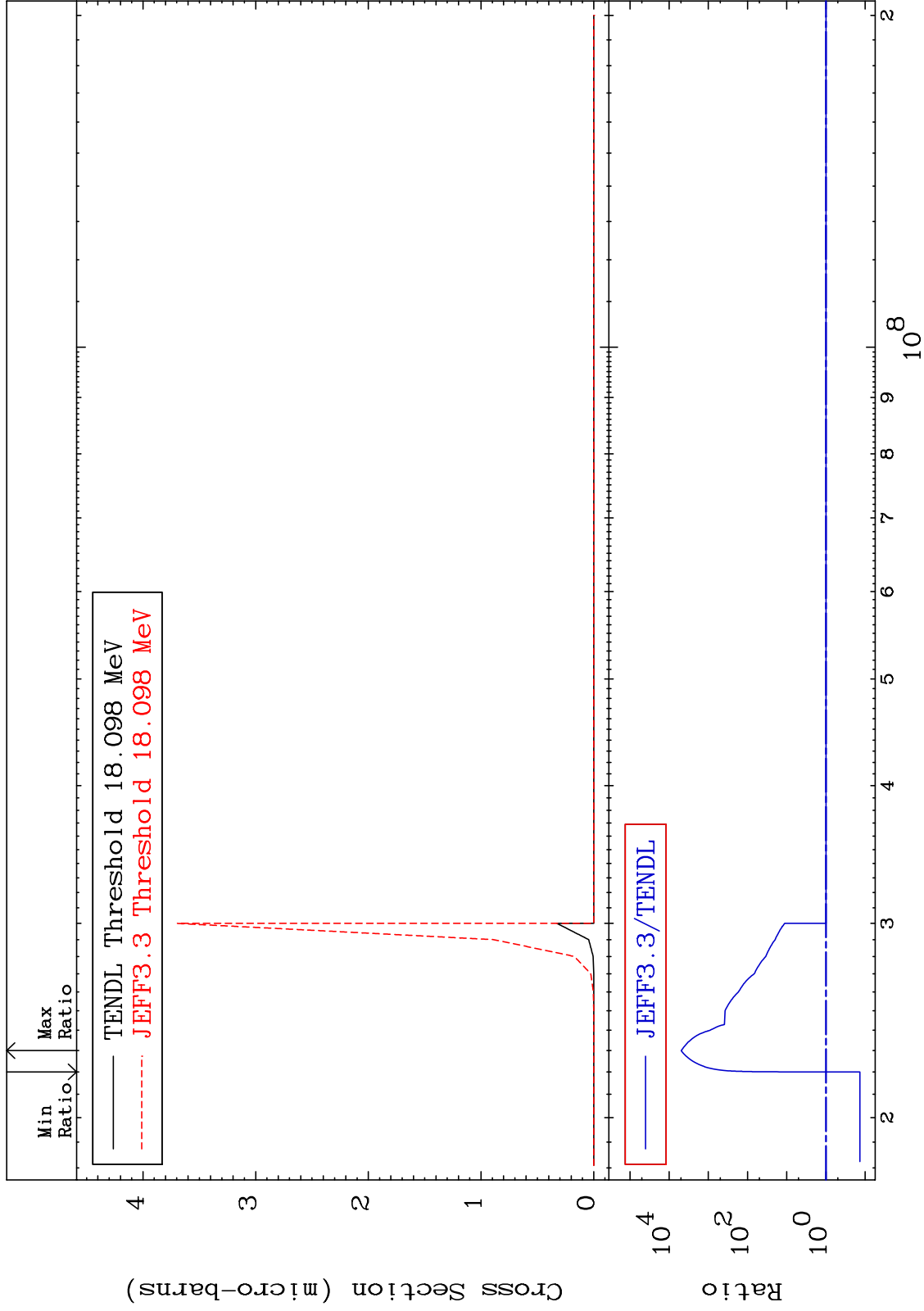
MAT 5446

(n,3n) α

54-Xe-131

Cross Section

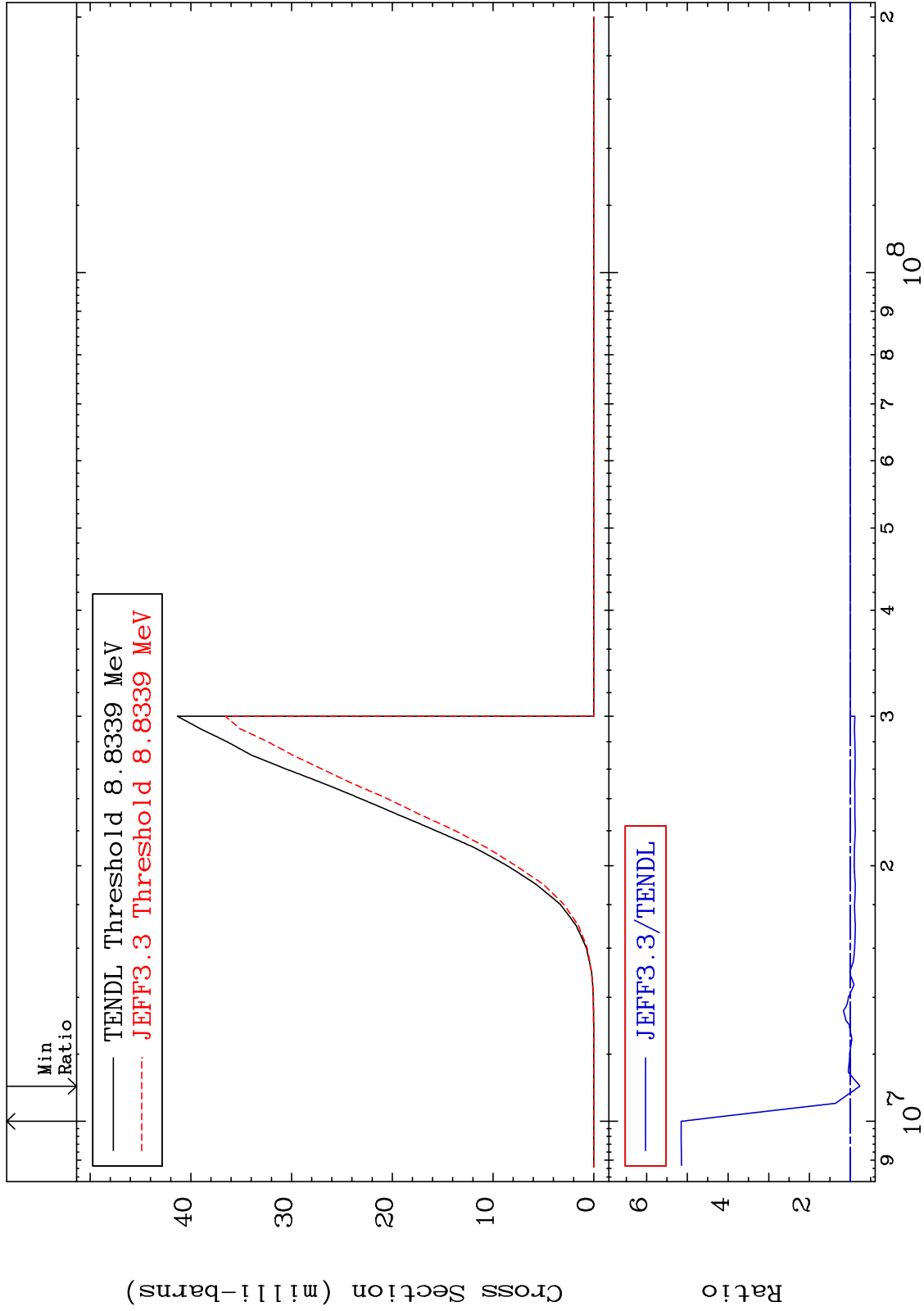
-86.37 To 9999. %



MAT 5446

(n,n') p
Cross Section

54-Xe-131
-23.77 To 415.0 %



Incident Energy (eV) 54-Xe-131

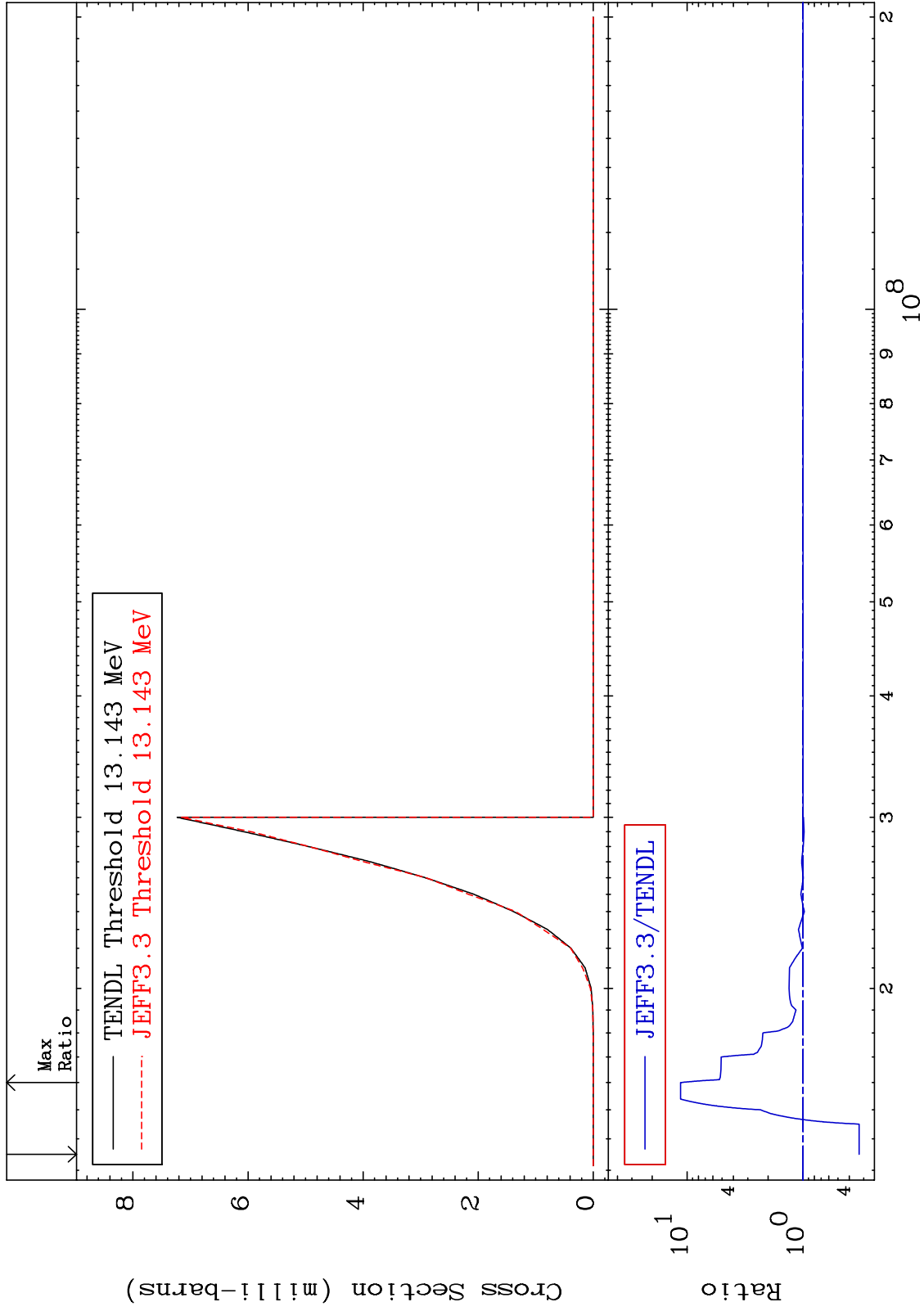
MAT 5446

(n, n') d

54-Xe-131

Cross Section

-67.18 To 1039. %



MAT 5446

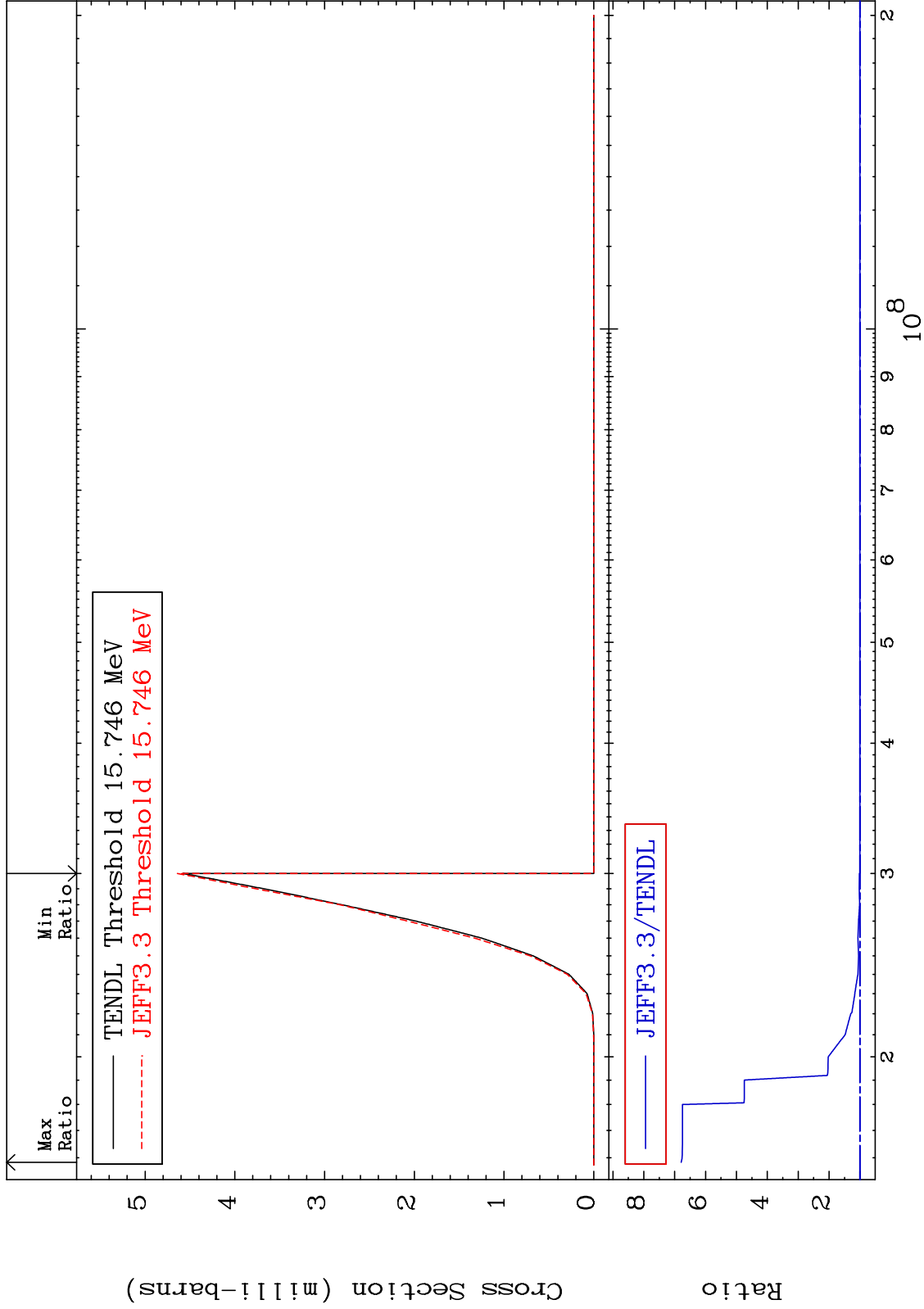
(n,n') t

54-Xe-131

Cross Section

0.000

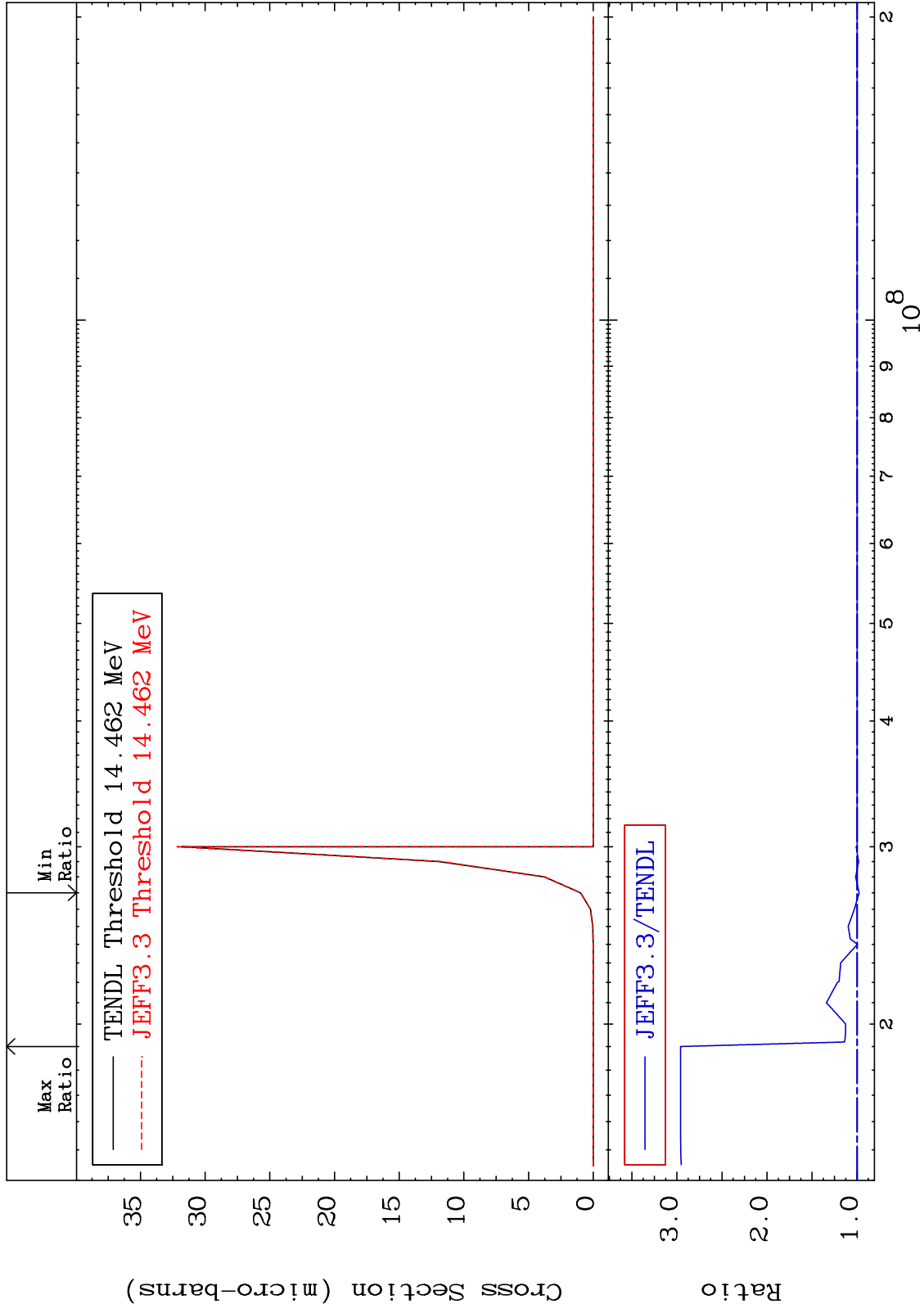
To 578.9 %



MAT 5446

(n, n') He-3
Cross Section

54-Xe-131
-2.321 To 195.9 %



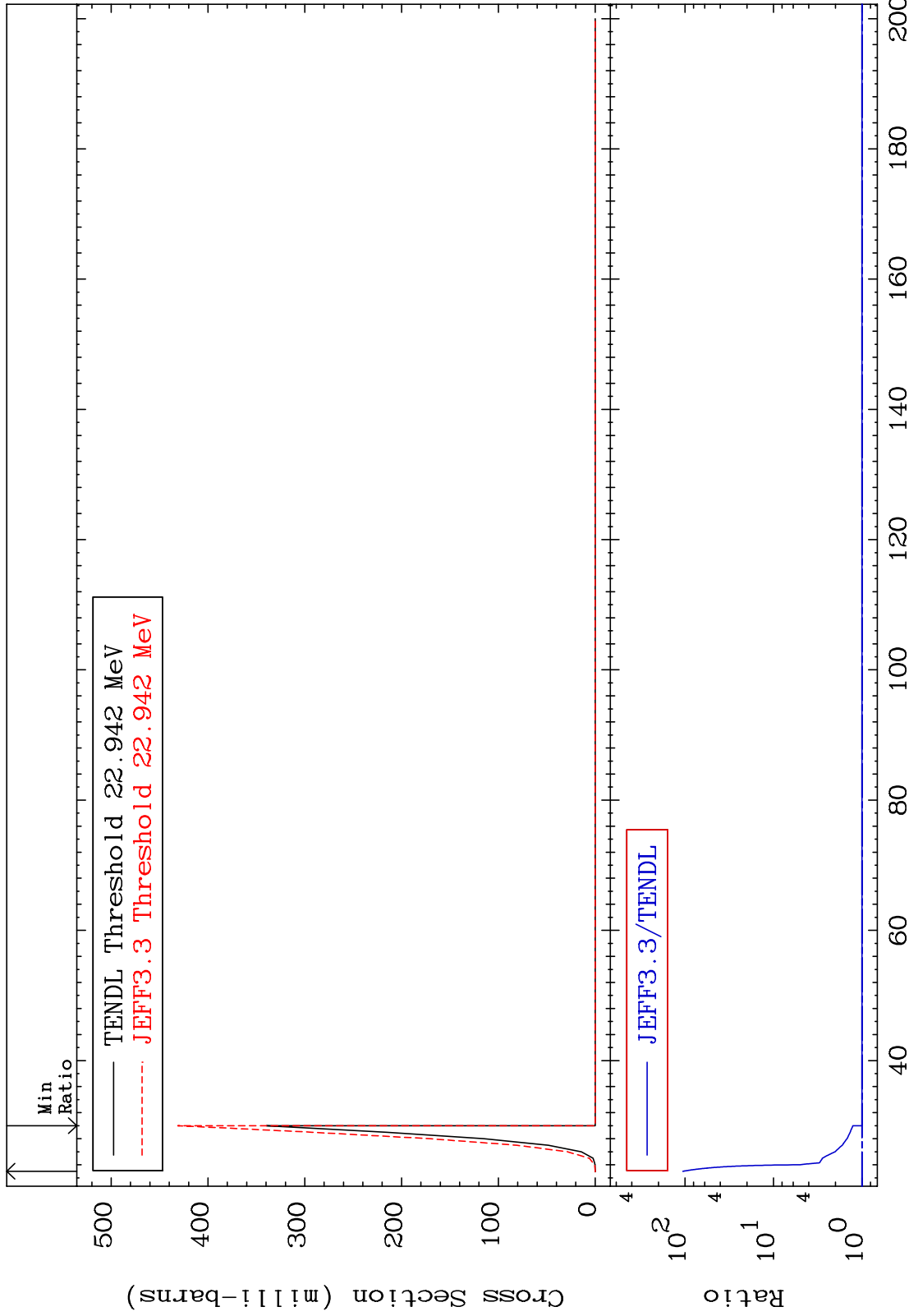
MAT 5446

(n, 4n)

54-Xe-131

Cross Section

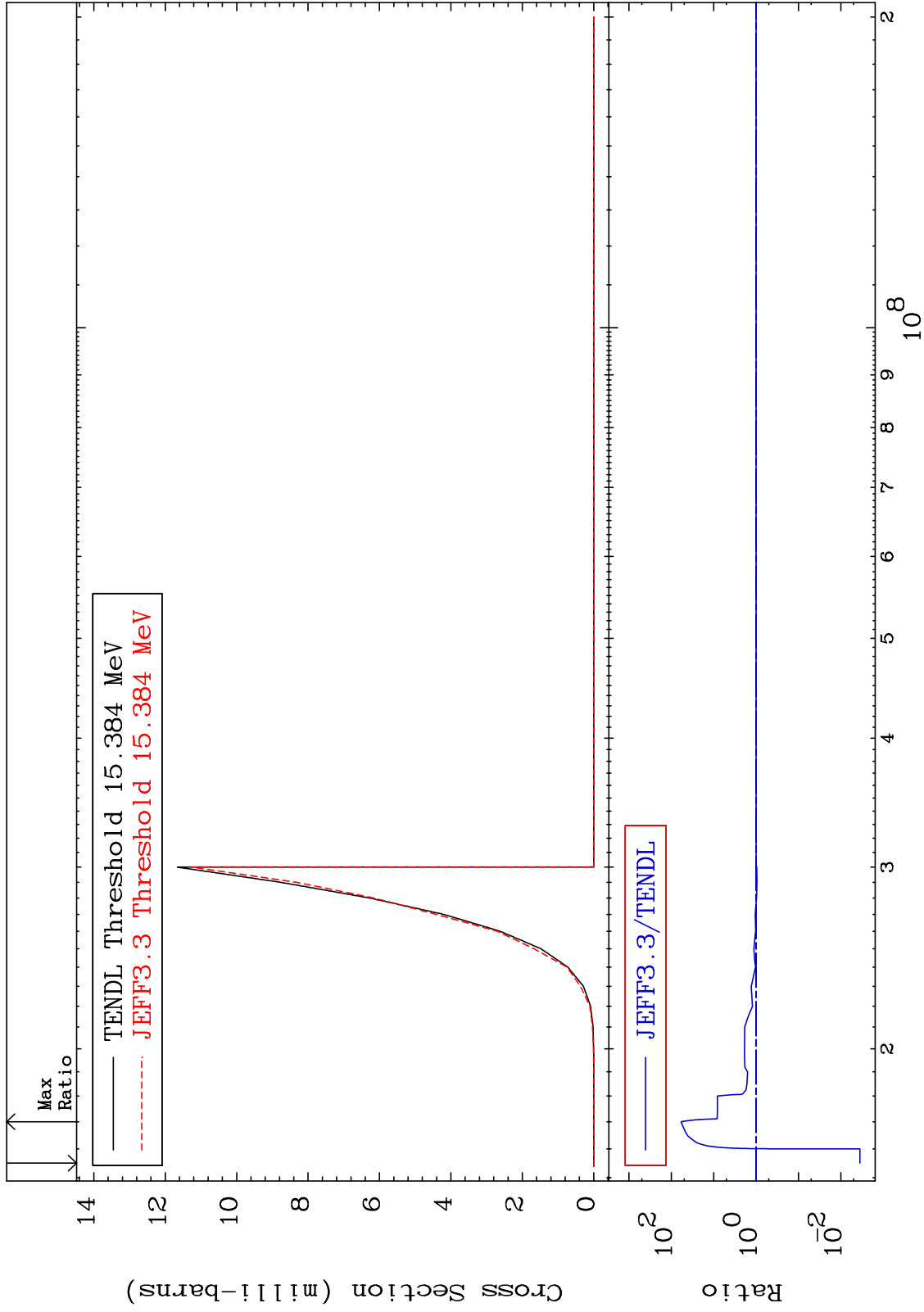
0.000 To 9999. %



MAT 5446

(n,2n) p
Cross Section

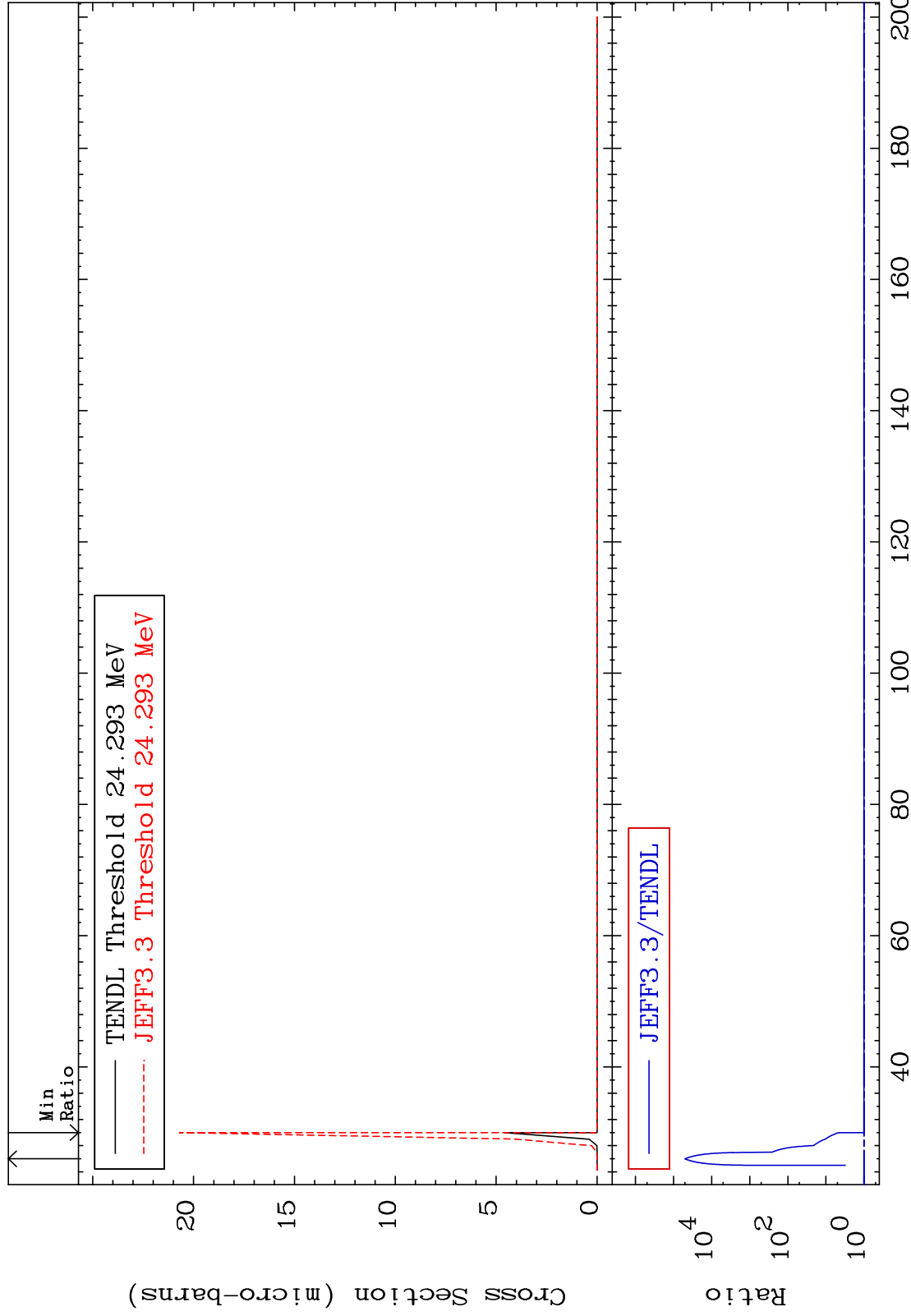
54-Xe-131
-99.64 To 5749. %

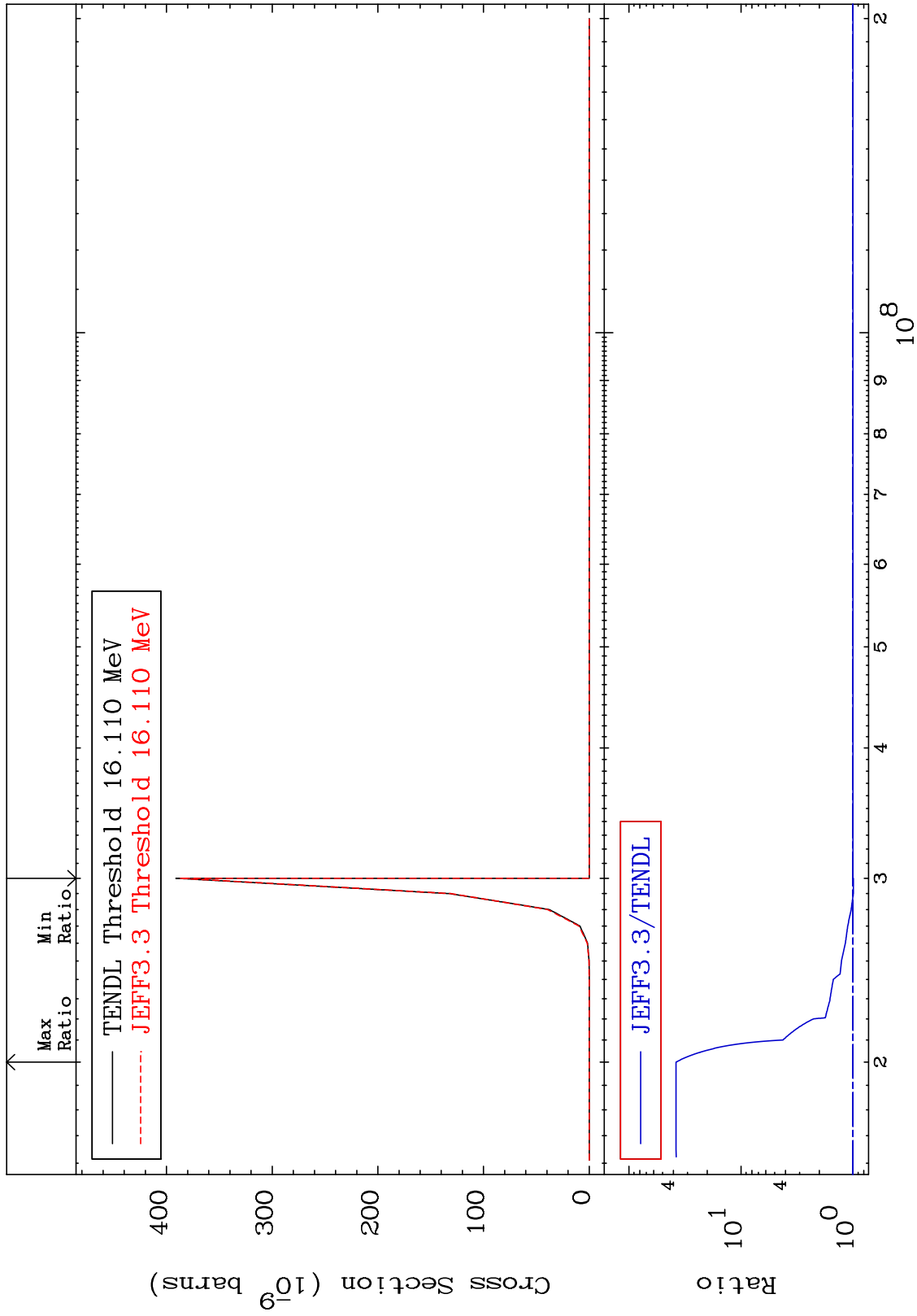


MAT 5446

(n,3n) p
Cross Section

54-Xe-131
0.000 To 9999. %

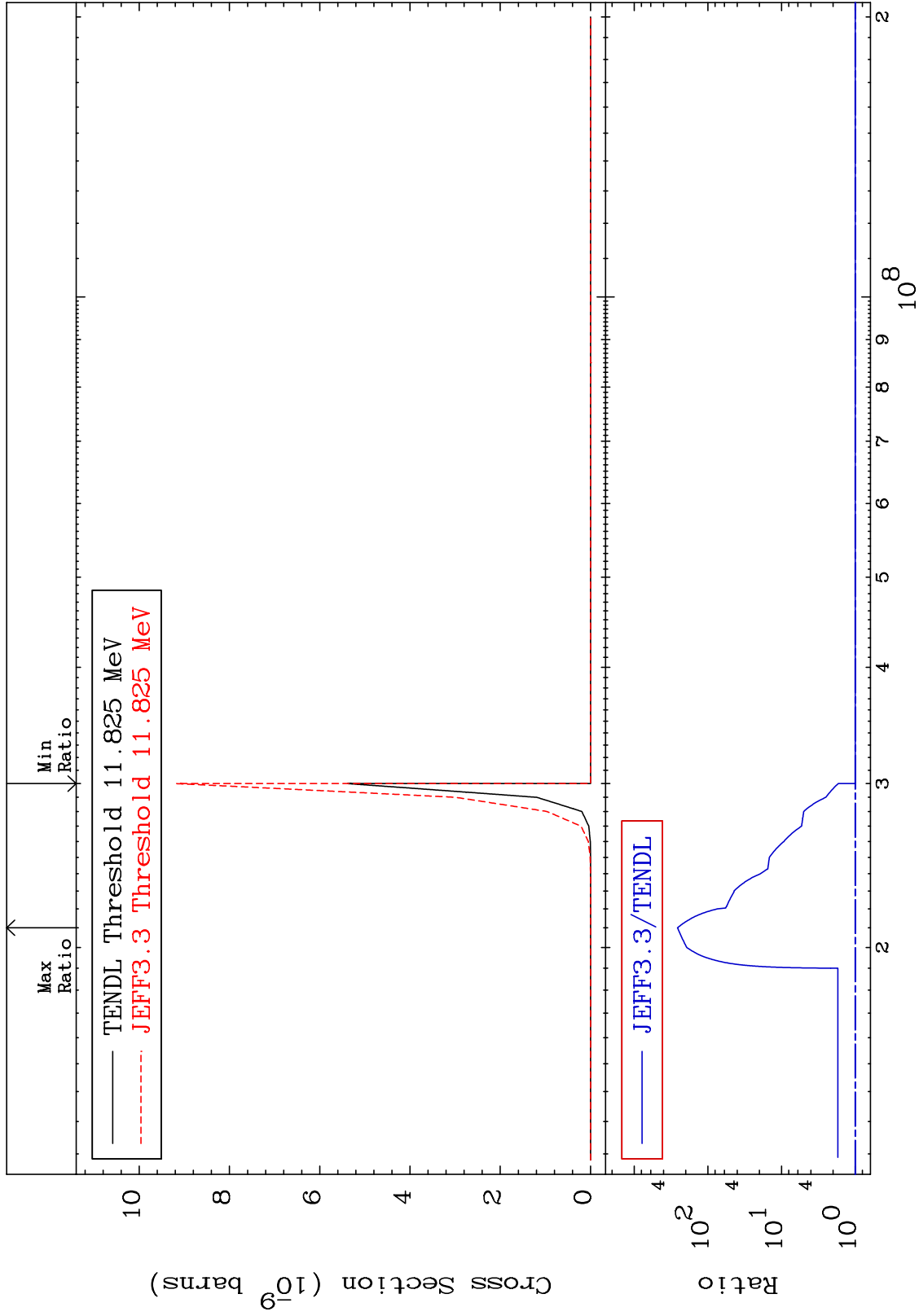




MAT 5446

(n,n') p α
Cross Section

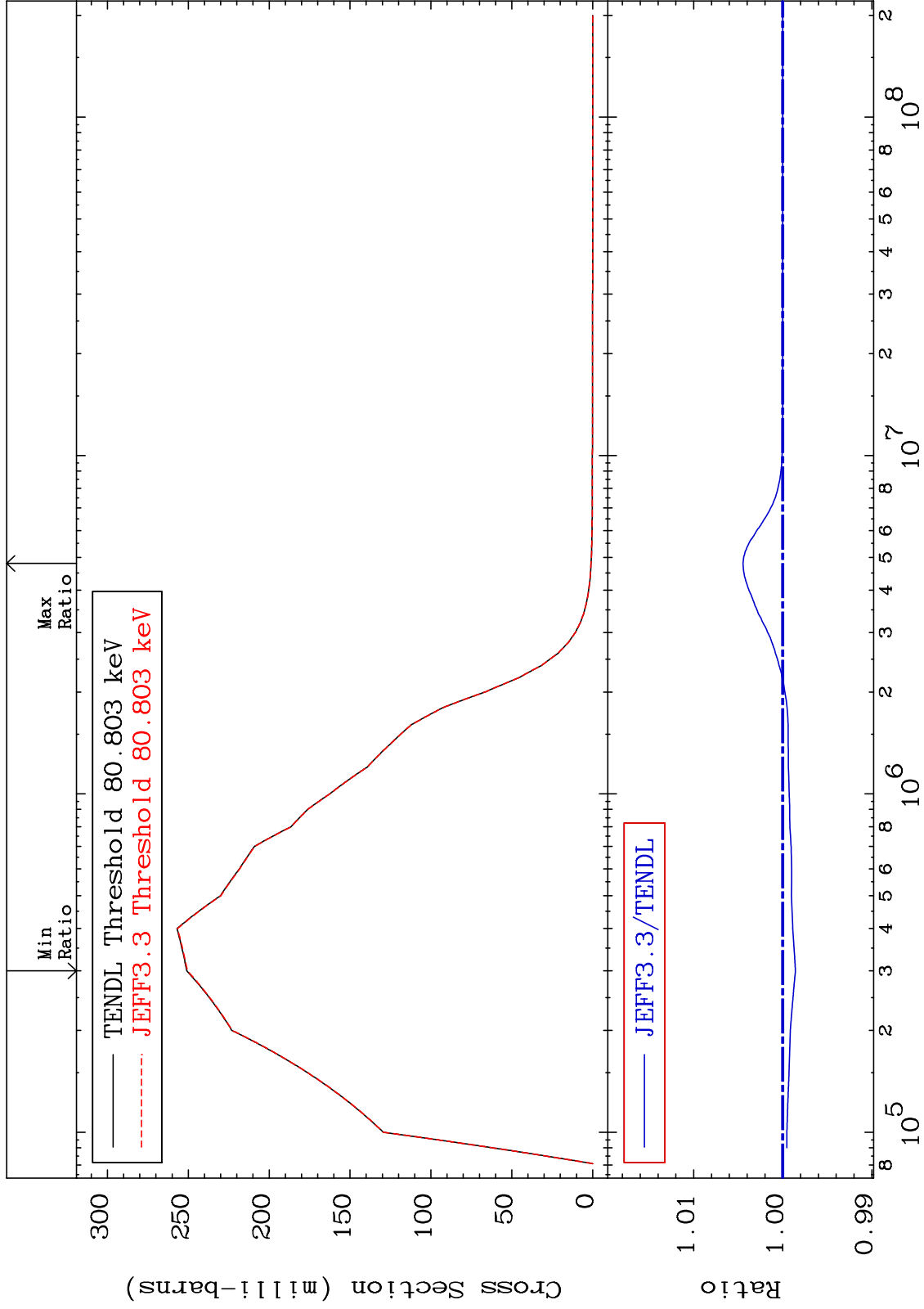
54-Xe-131
0.000 To 9999. %



MAT 5446

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

54-Xe-131
-0.143 To 0.446 %



19

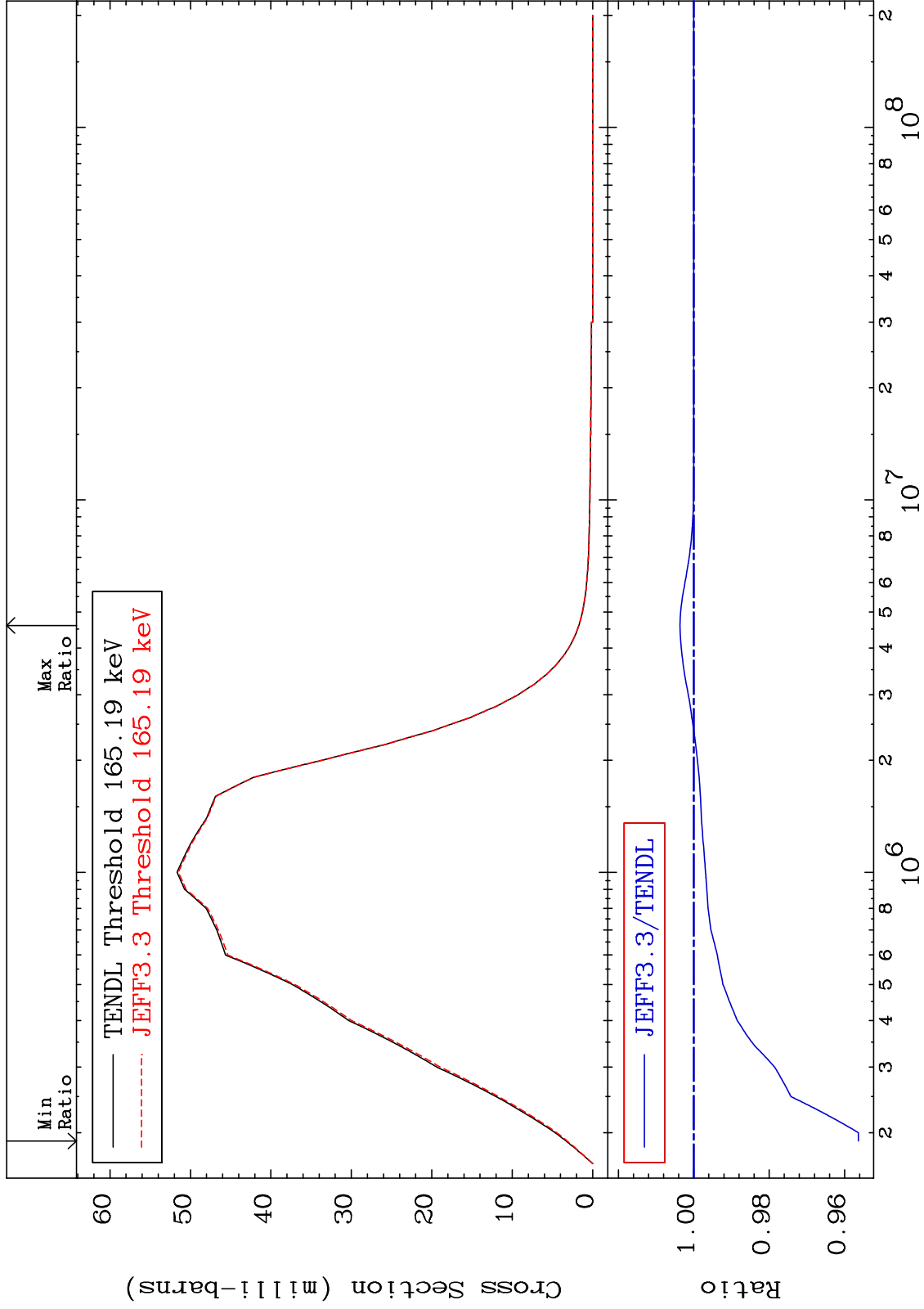
Incident Energy (eV)

54-Xe-131

MAT 5446

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

54-Xe-131
-4.367 To 0.364 %

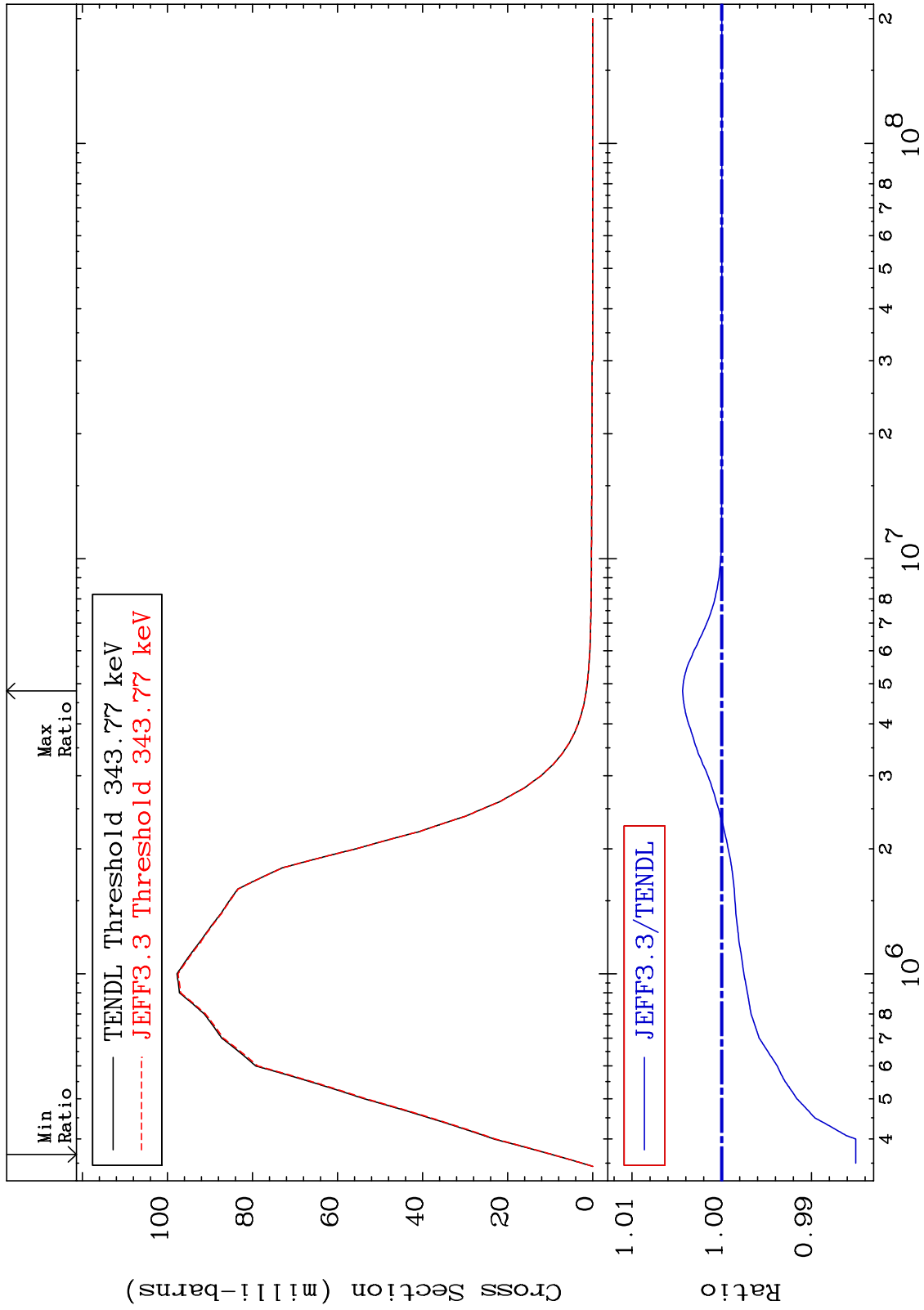


20

Incident Energy (eV)

54-Xe-131

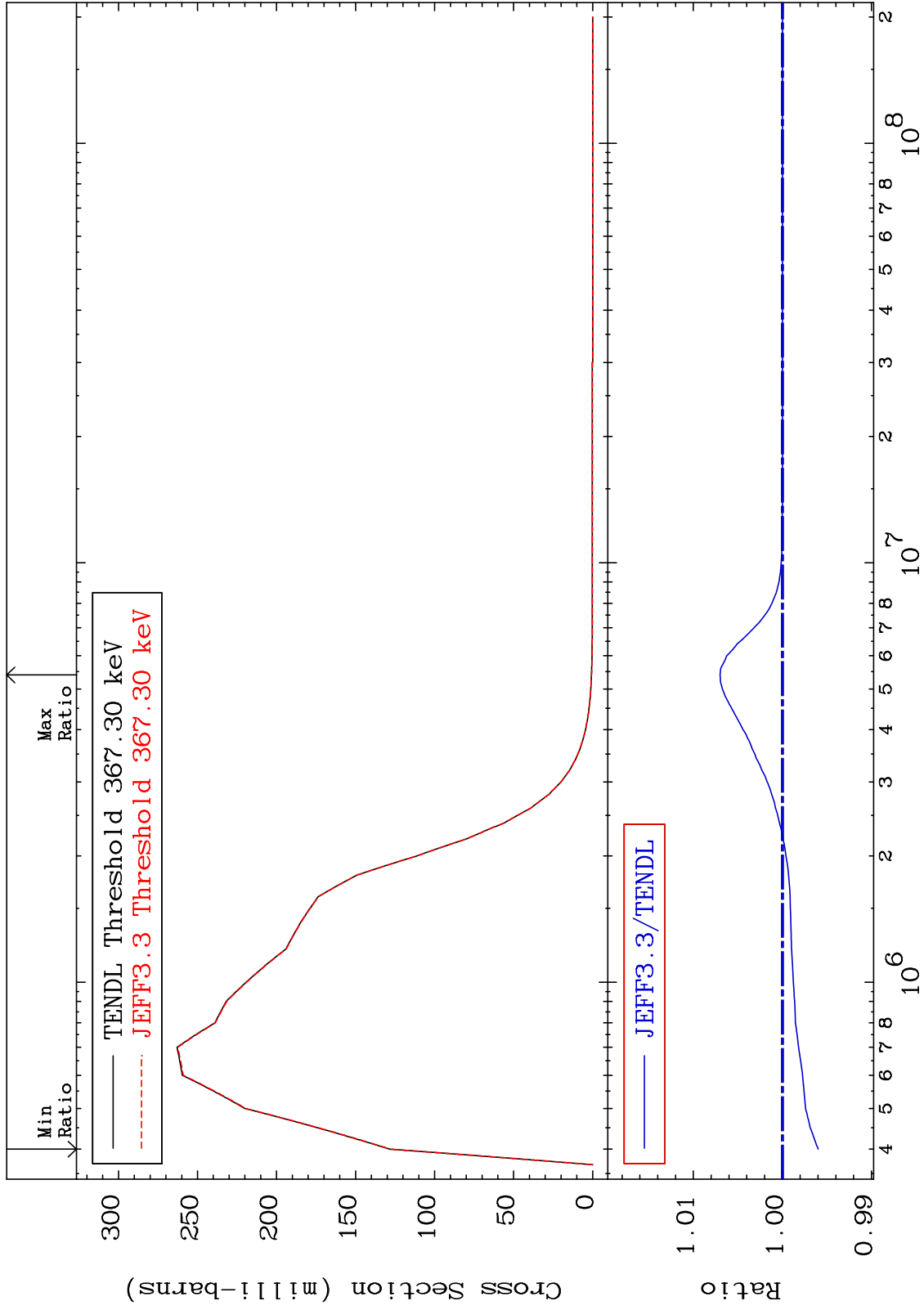
MAT 5446 MT= 53 (n,n') Level 54-Xe-131
 Cross Section -1.495 To 0.436 %



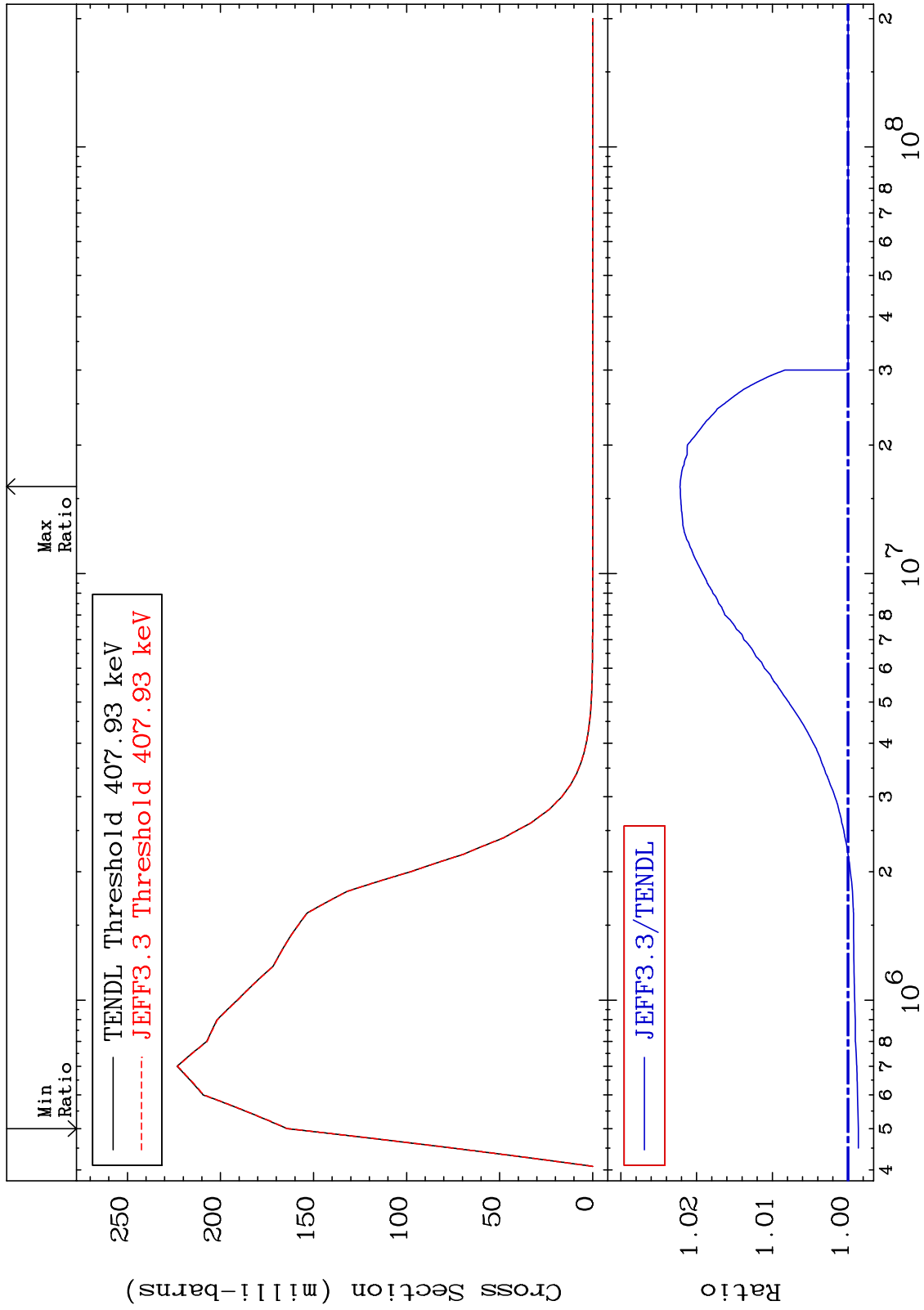
MAT 5446

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

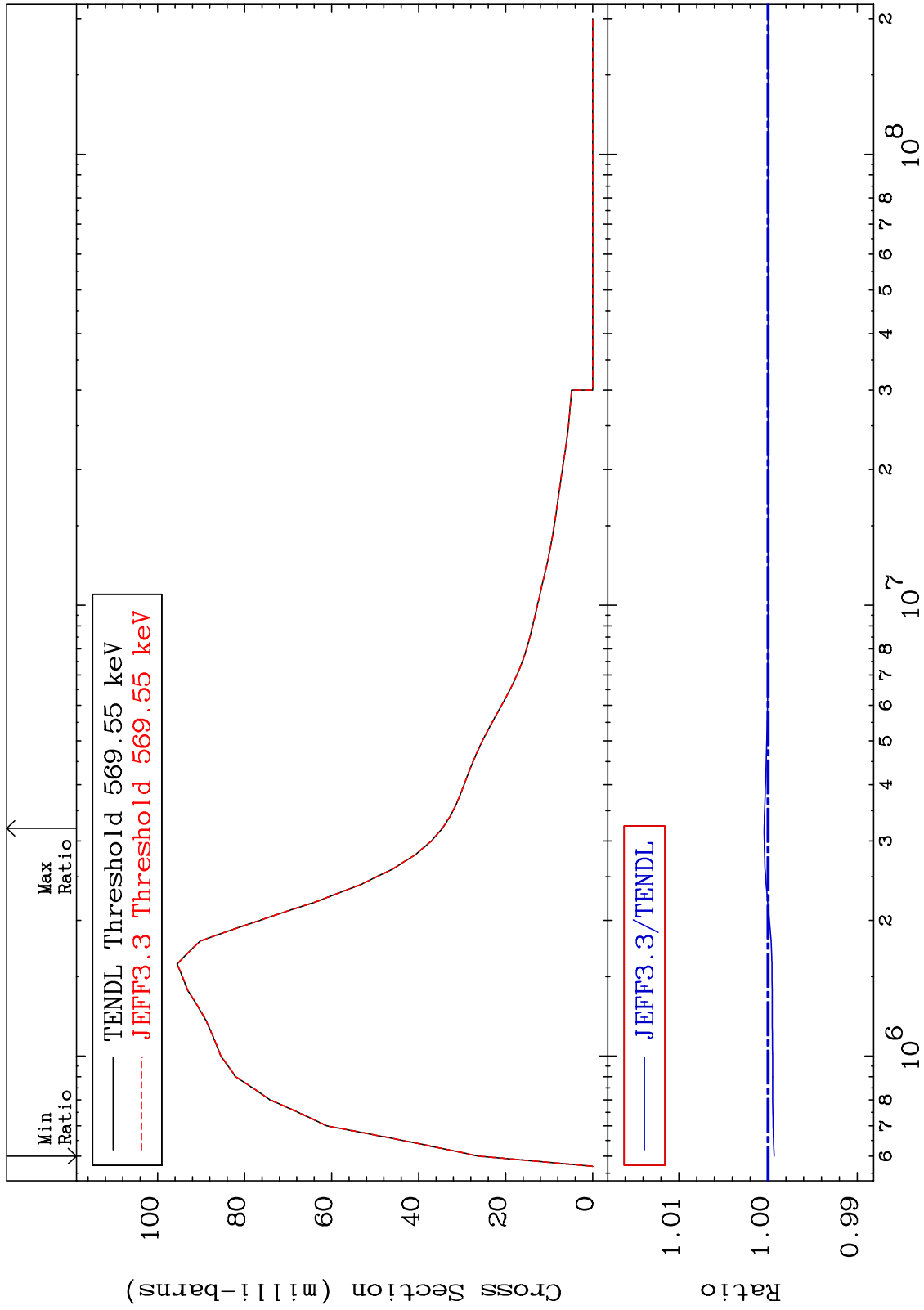
54-Xe-131
-0.403 To 0.699 %



MAT 5446 MT= 55 (n,n') Level Cross Section -0.137 To 2.219 % 54-Xe-131



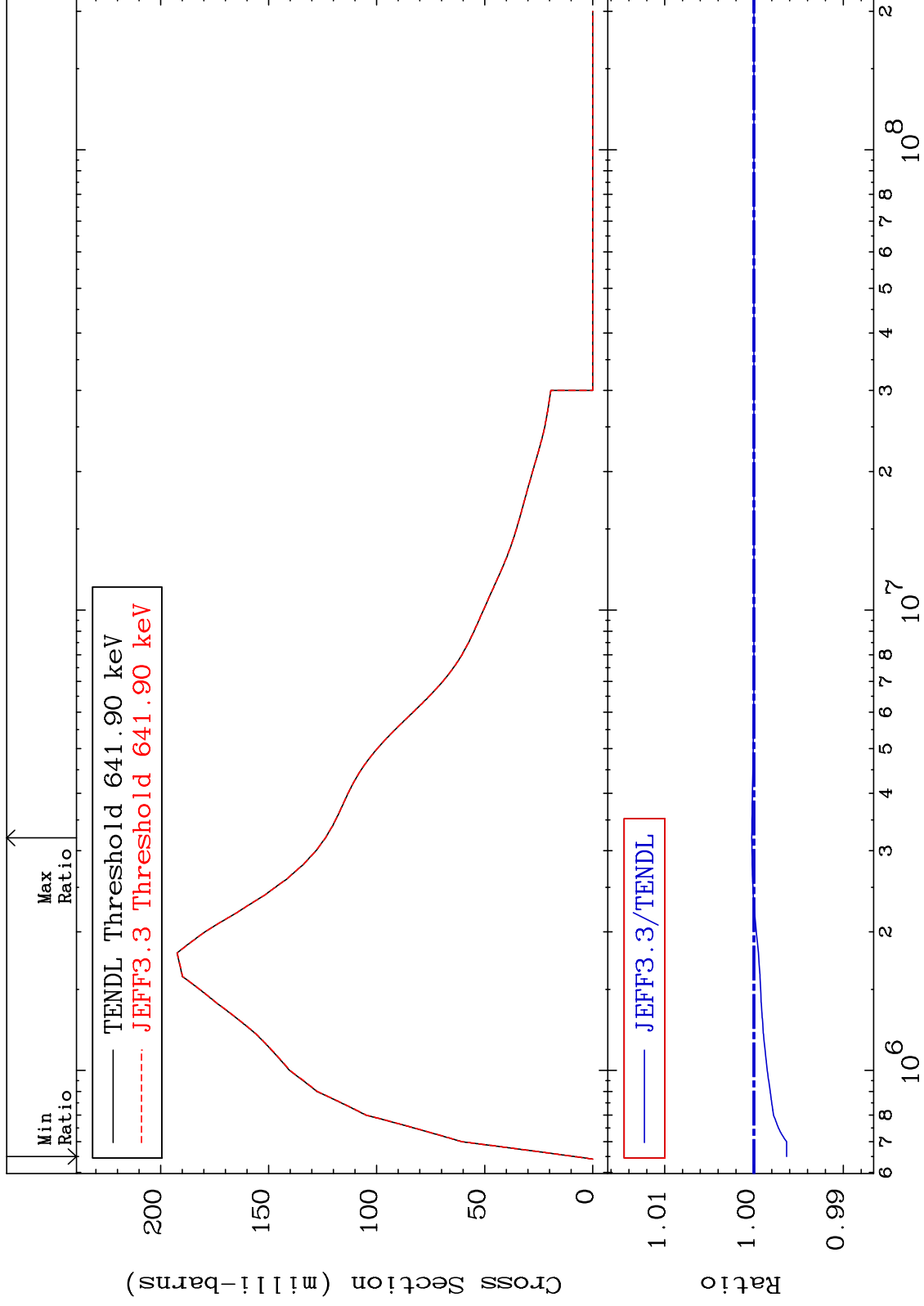
MAT 5446 MT= 56 (n,n') Level
 Cross Section 54-Xe-131
 -0.070 To 0.043 %



MAT 5446

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

54-Xe-131
-0.366 To 0.024 %



25

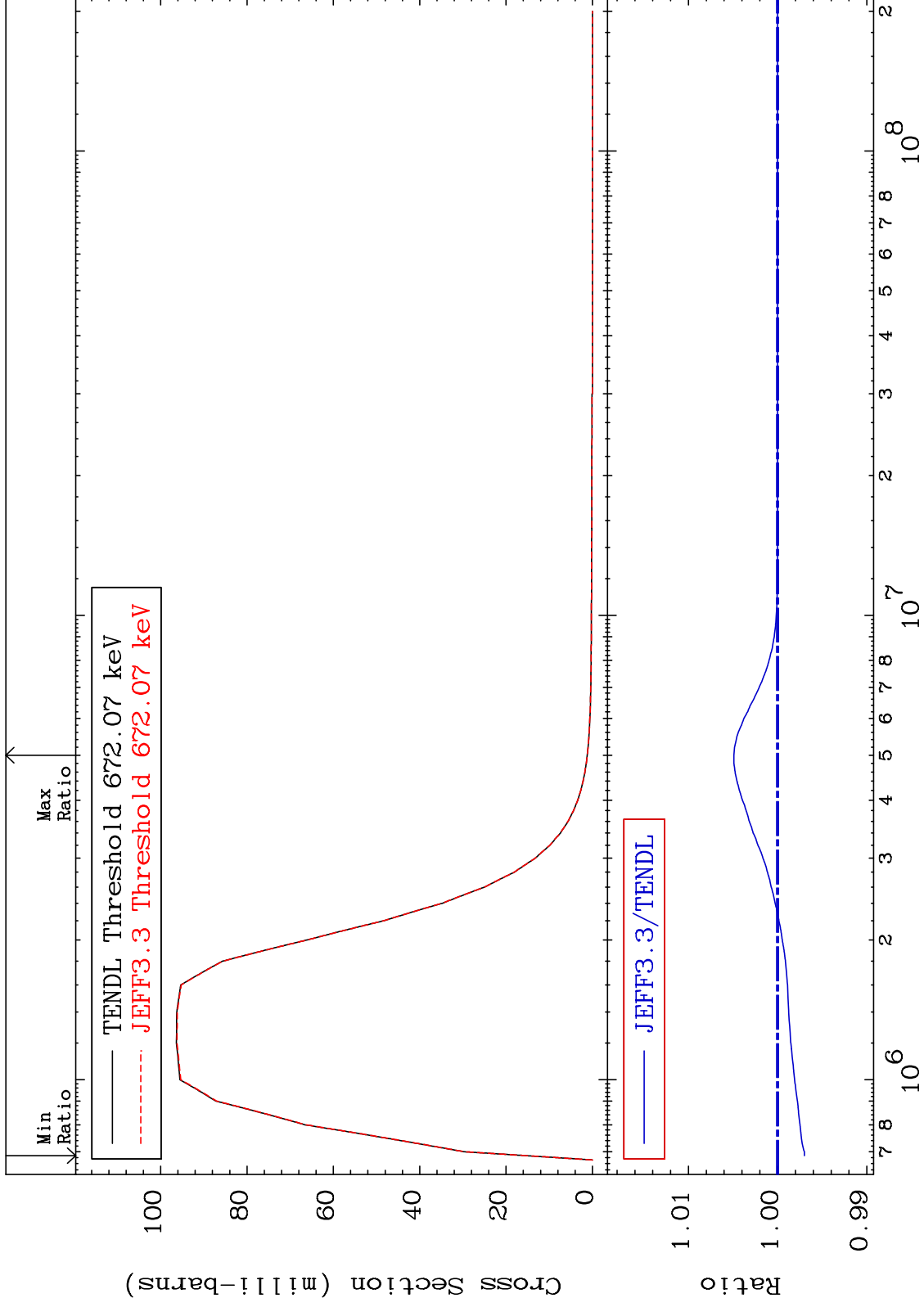
Incident Energy (eV)

54-Xe-131

MAT 5446

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

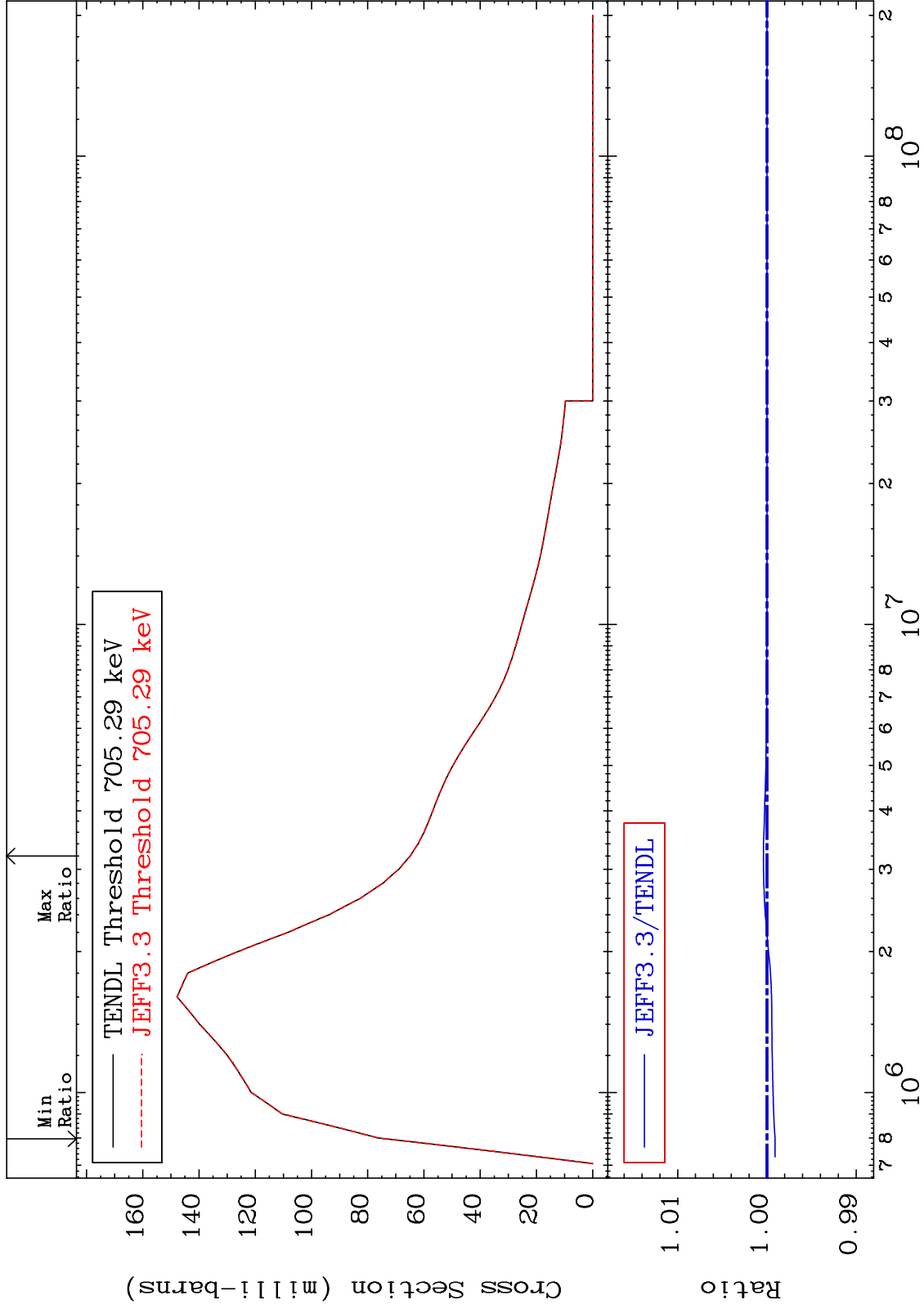
54-Xe-131
-0.299 To 0.491 %



MAT 5446

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

54-Xe-131
-0.091 To 0.039 %



27

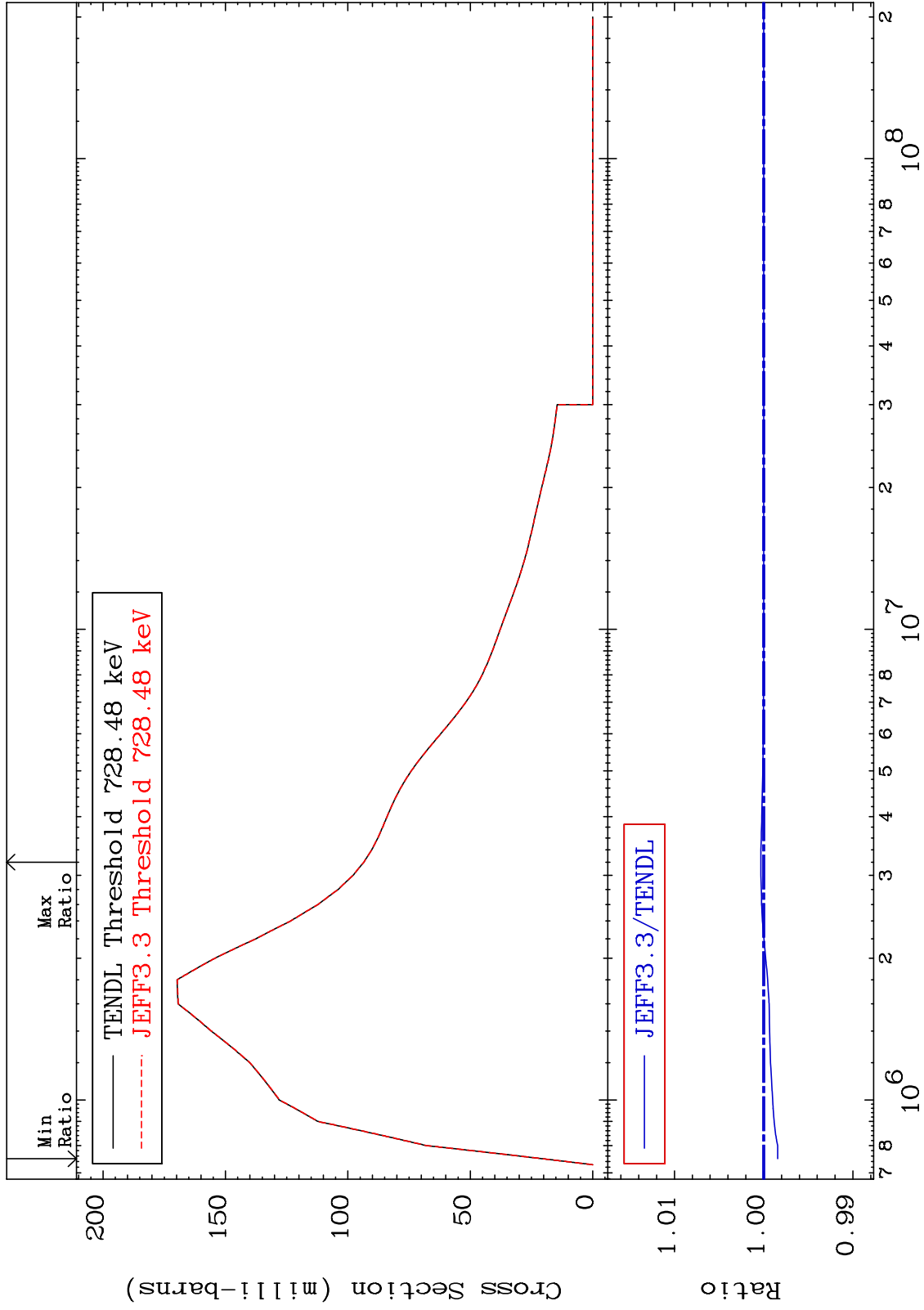
Incident Energy (eV)

54-Xe-131

MAT 5446

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

54-Xe-131
-0.156 To 0.032 %



28

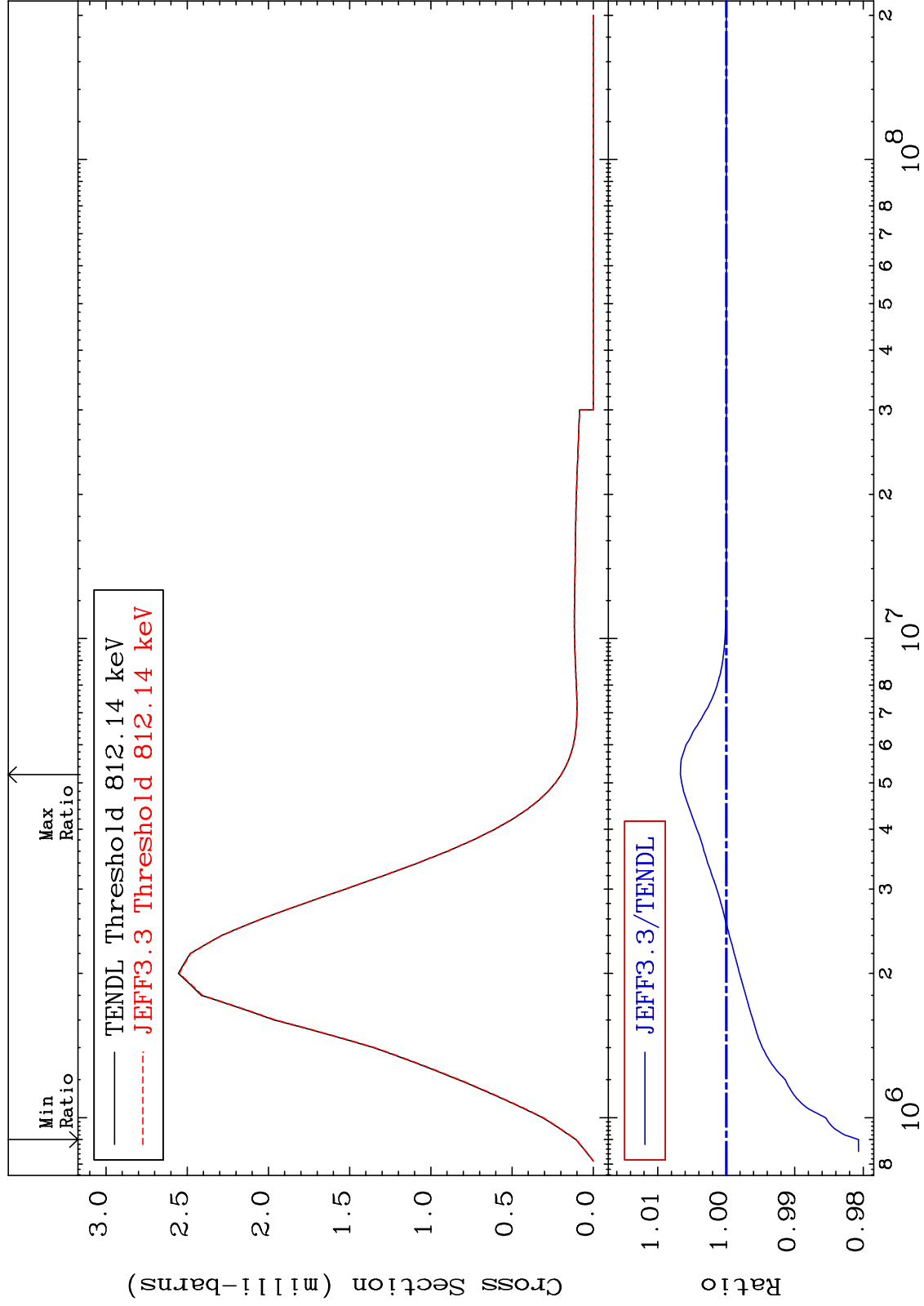
Incident Energy (eV)

54-Xe-131

MAT 5446

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

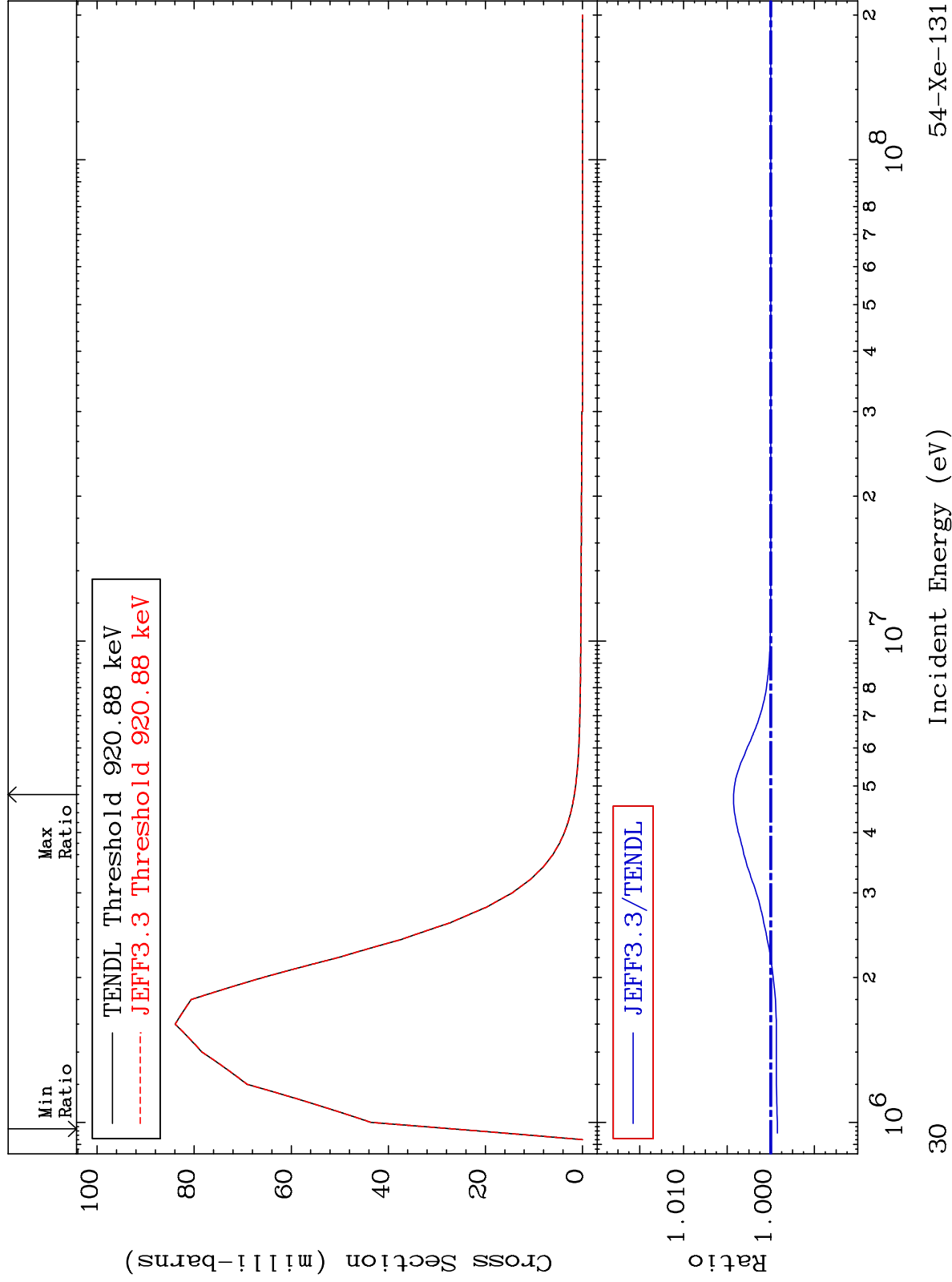
54-Xe-131
-1.932 To 0.669 %



MAT 5446

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

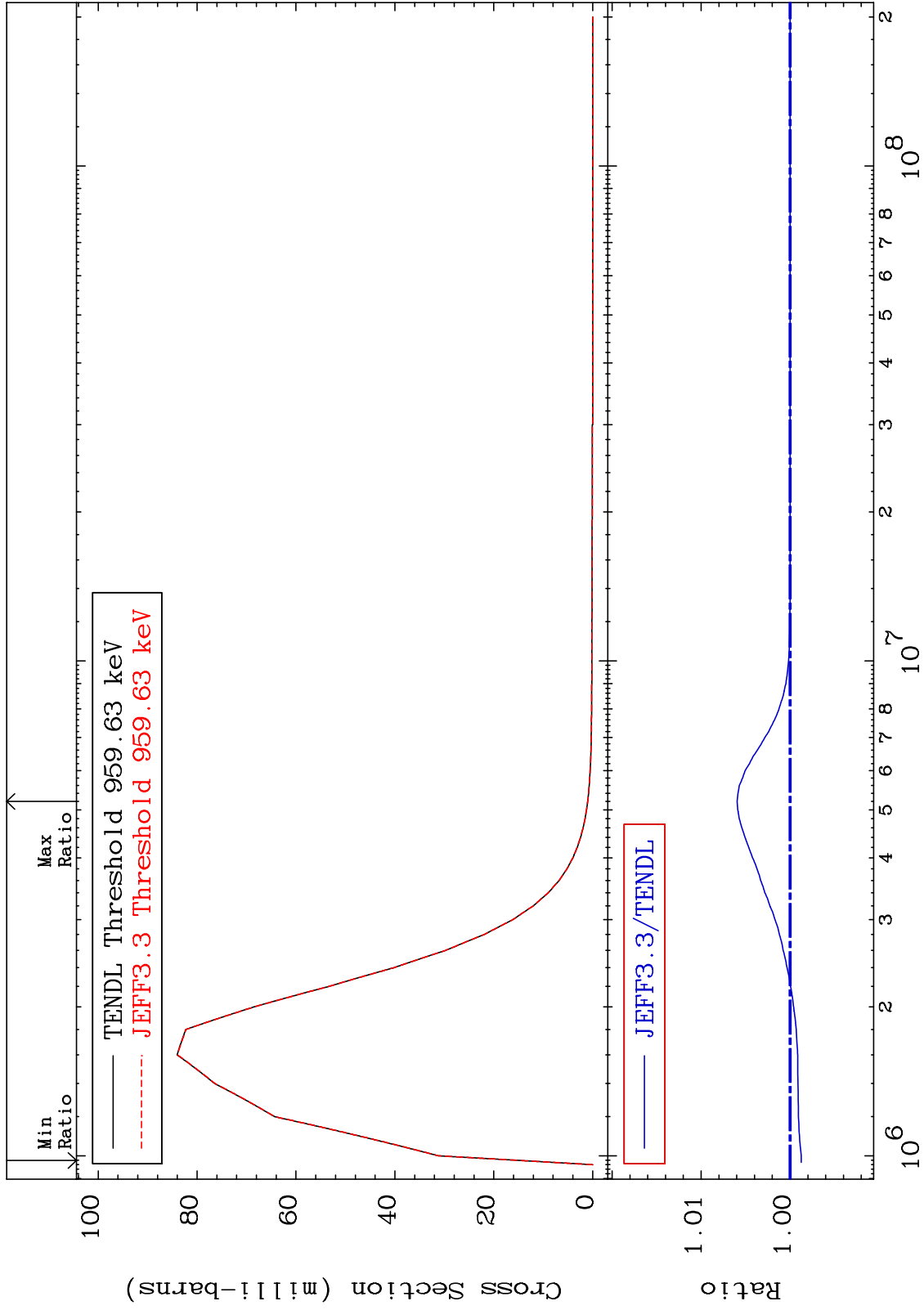
54-Xe-131
-0.076 To 0.426 %



MAT 5446

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

54-Xe-131
-0.125 To 0.595 %



31

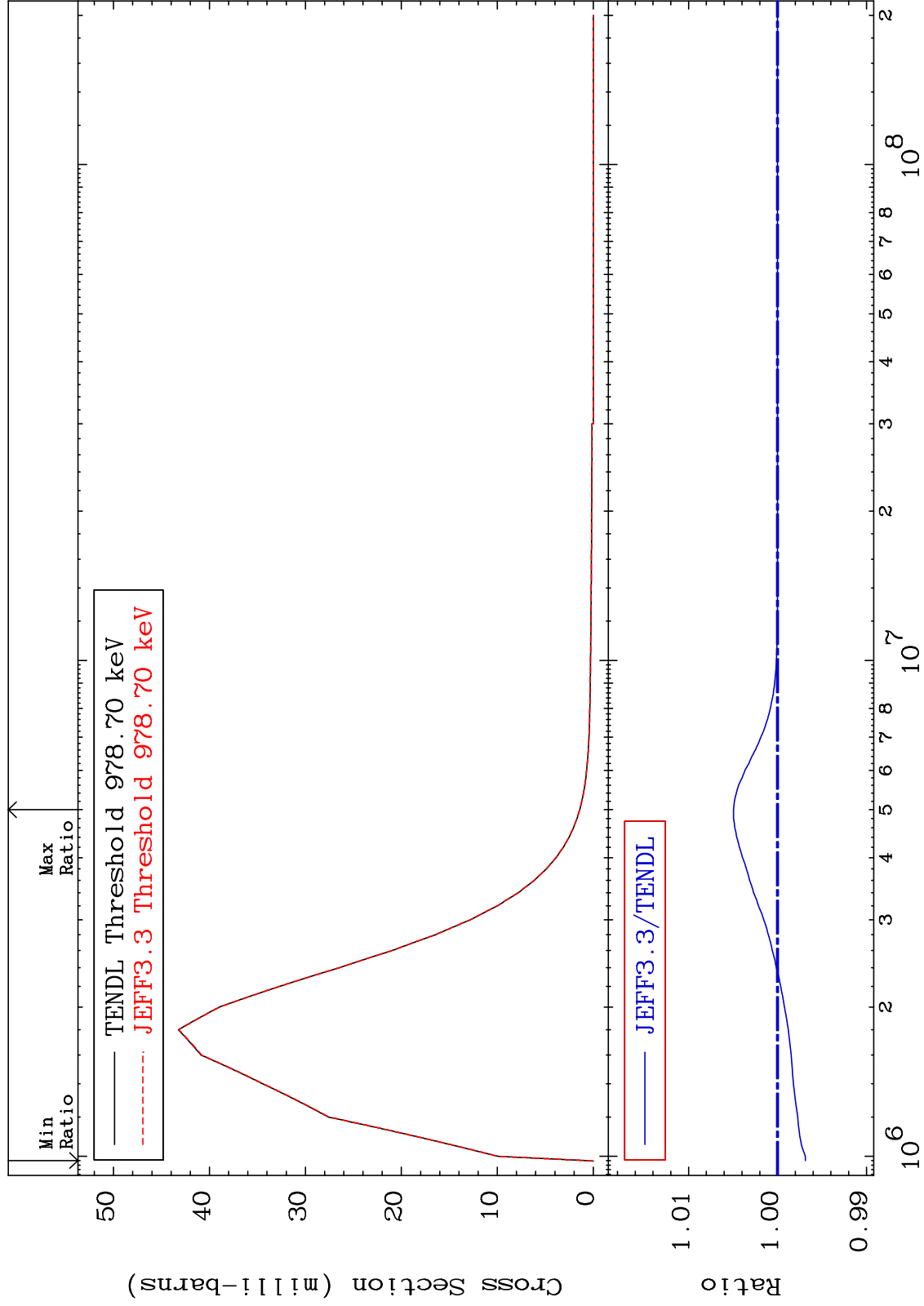
Incident Energy (eV)

54-Xe-131

MAT 5446

MT= 64 (n,n') Level
Cross Section

54-Xe-131
-0.313 To 0.494 %



Incident Energy (eV)

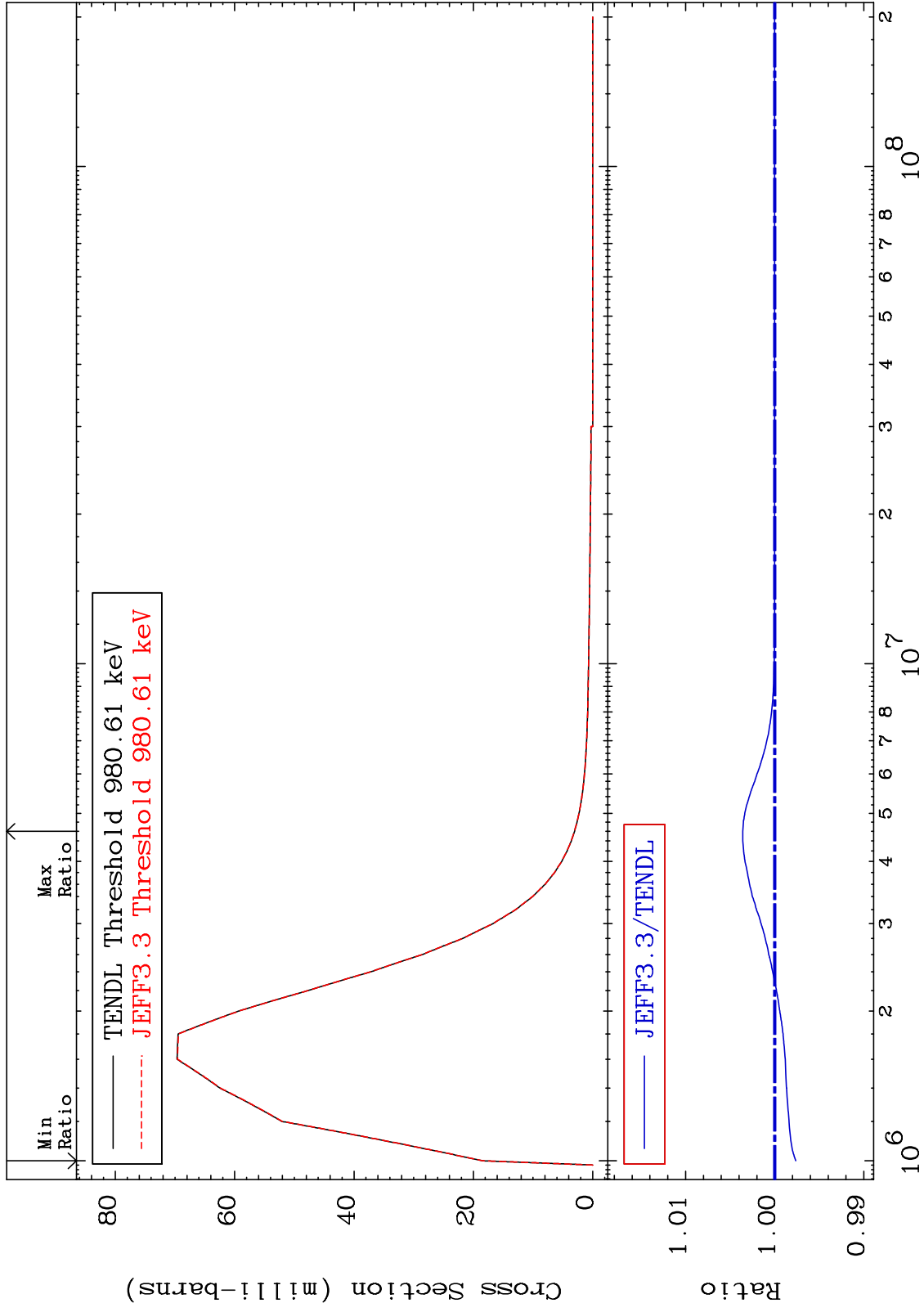
54-Xe-131

32

MAT 5446

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

54-Xe-131
-0.236 To 0.359 %



Incident Energy (eV)

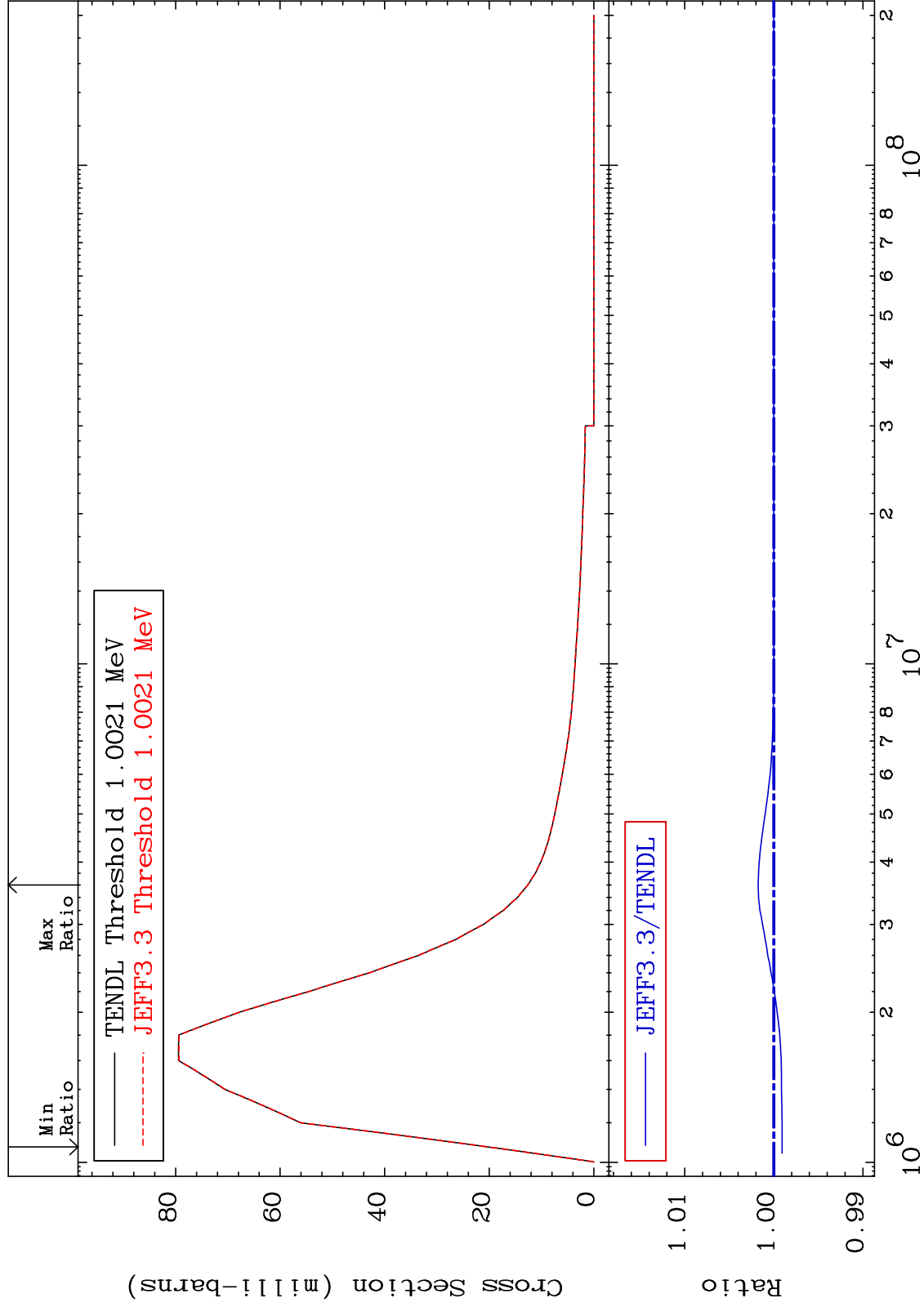
54-Xe-131

33

MAT 5446

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

54-Xe-131
-0.094 To 0.175 %



34

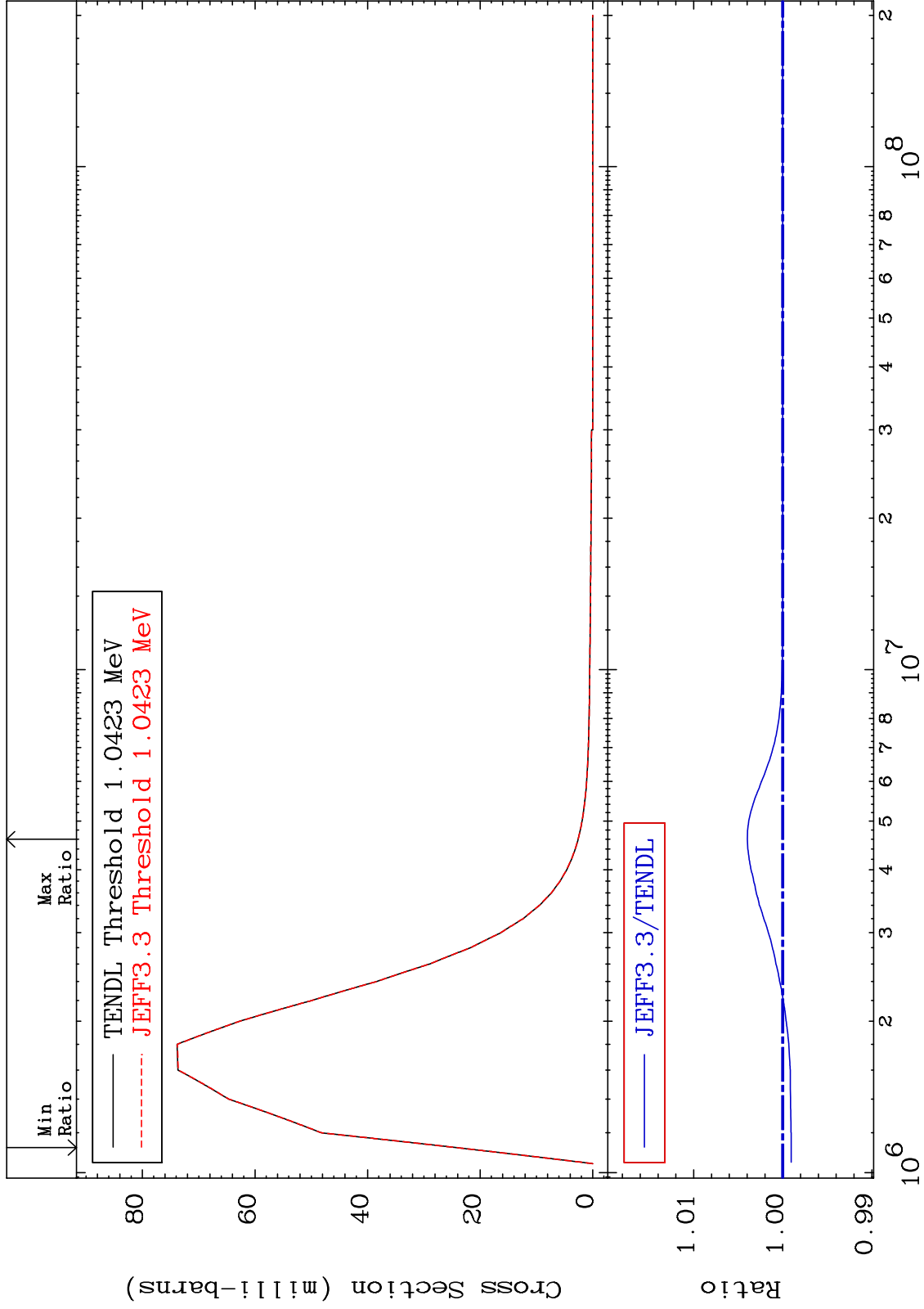
Incident Energy (eV)

54-Xe-131

MAT 5446

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

54-Xe-131
-0.094 To 0.398 %



35

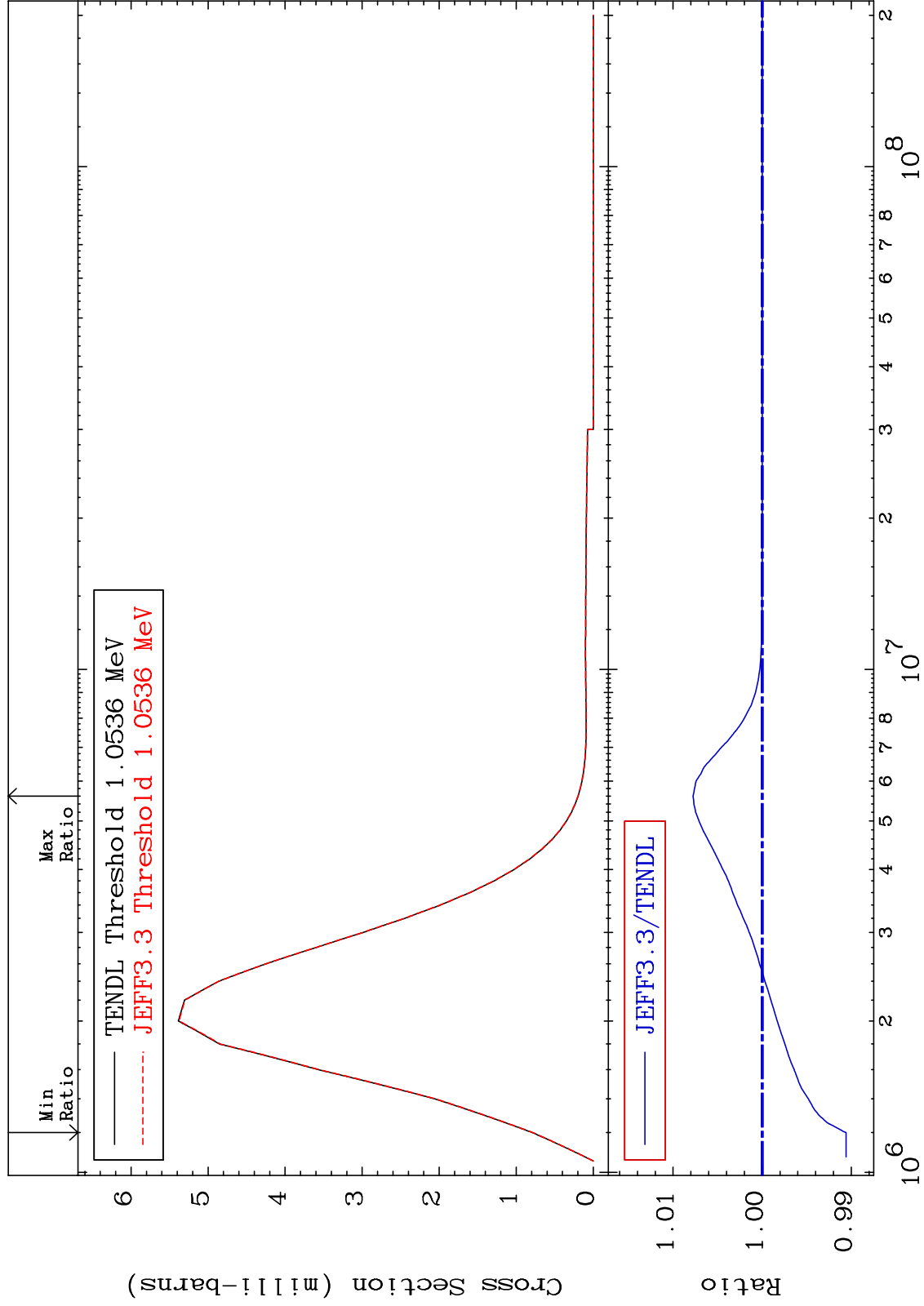
Incident Energy (eV)

54-Xe-131

MAT 5446

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

54-Xe-131
-0.940 To 0.776 %



36

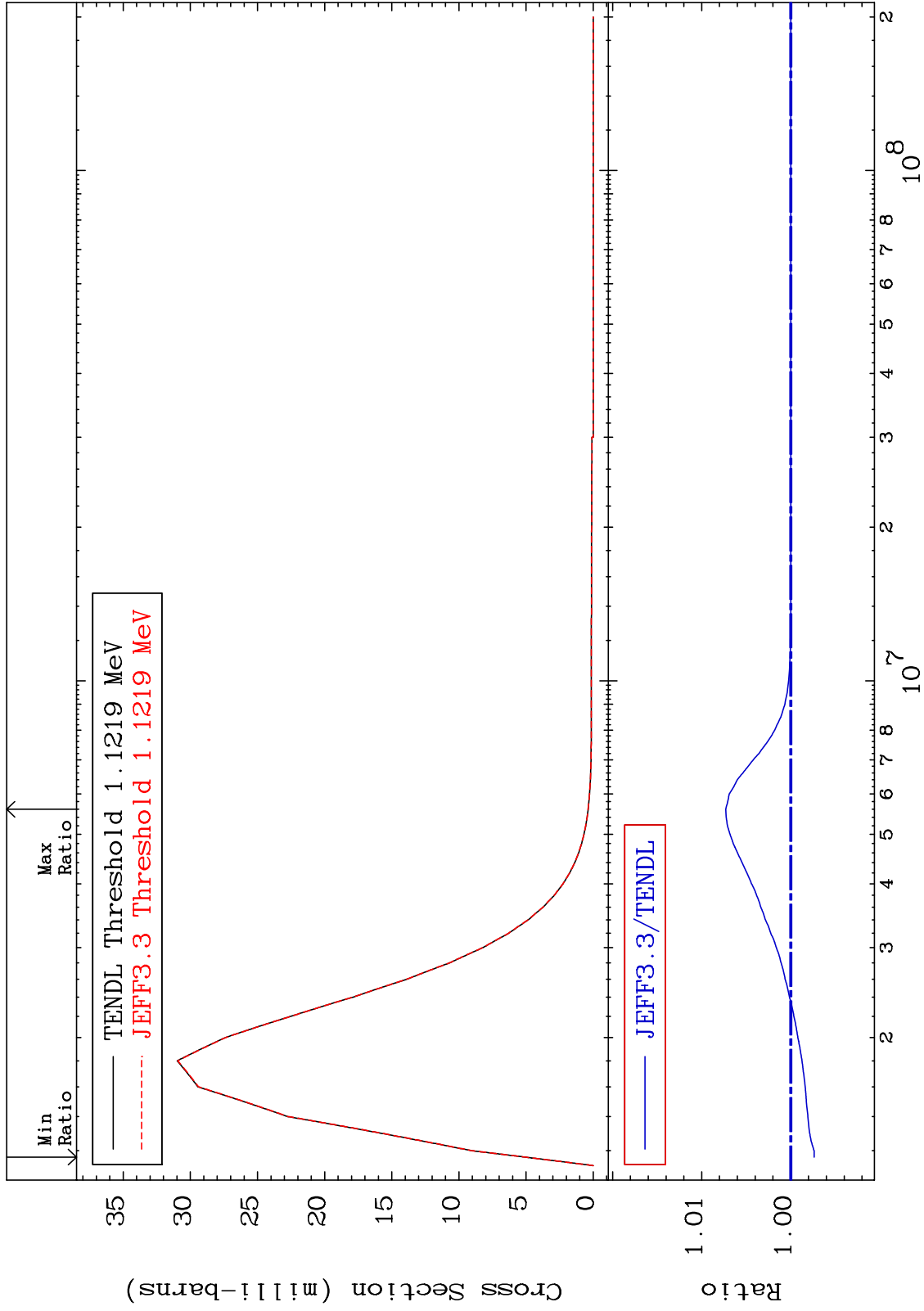
Incident Energy (eV)

54-Xe-131

MAT 5446

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

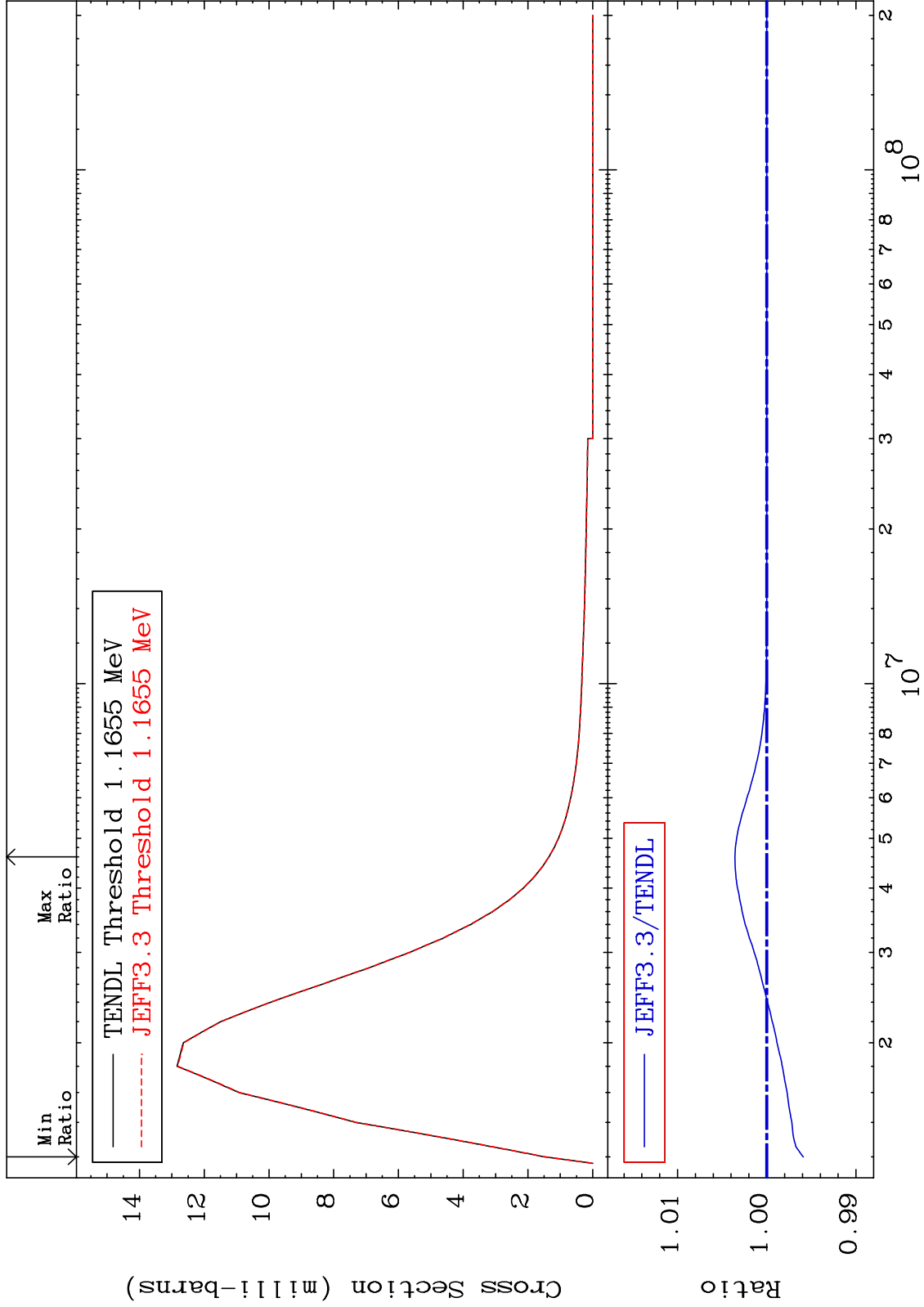
54-Xe-131
-0.262 To 0.730 %



MAT 5446

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

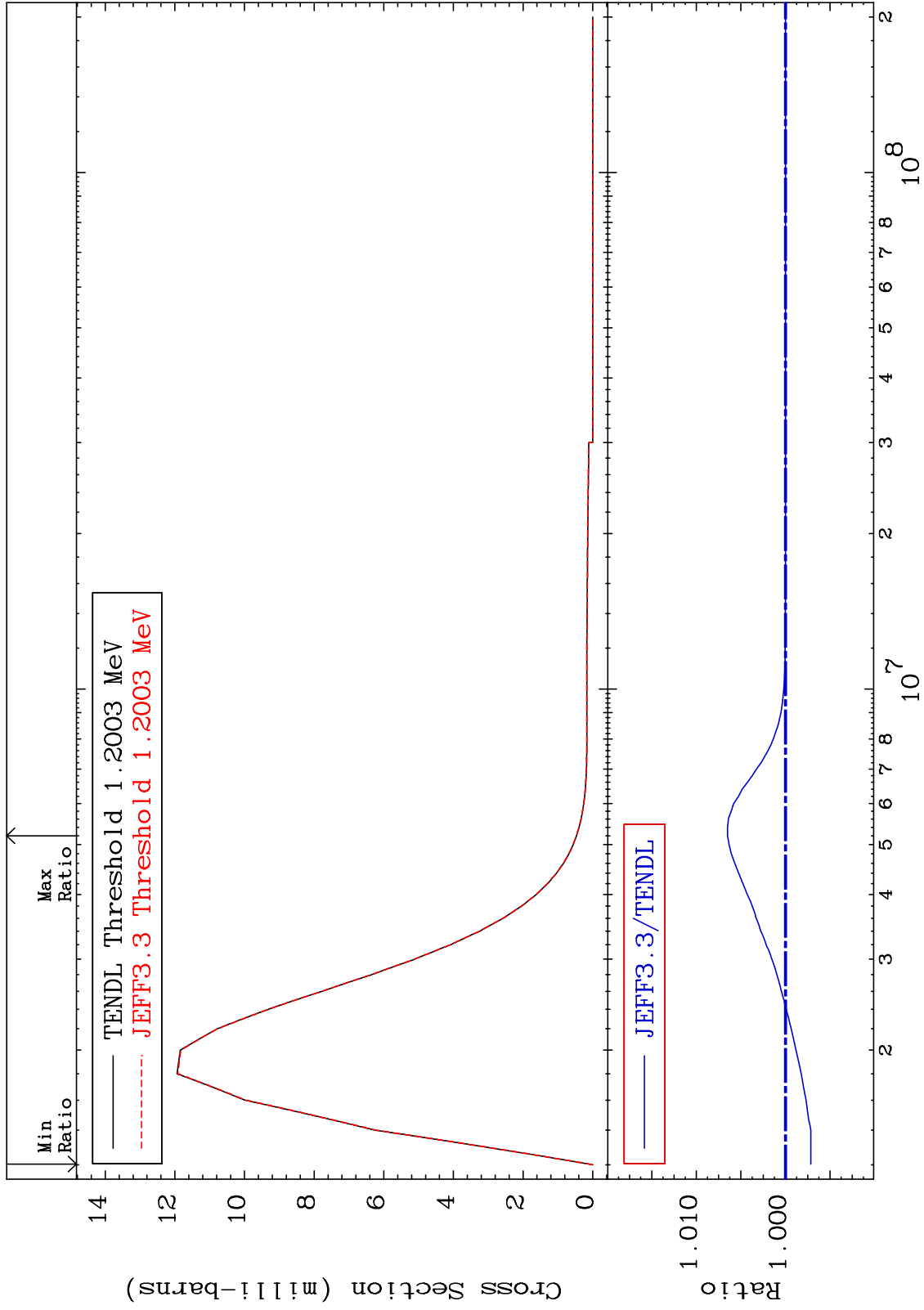
54-Xe-131
-0.412 To 0.357 %



MAT 5446

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

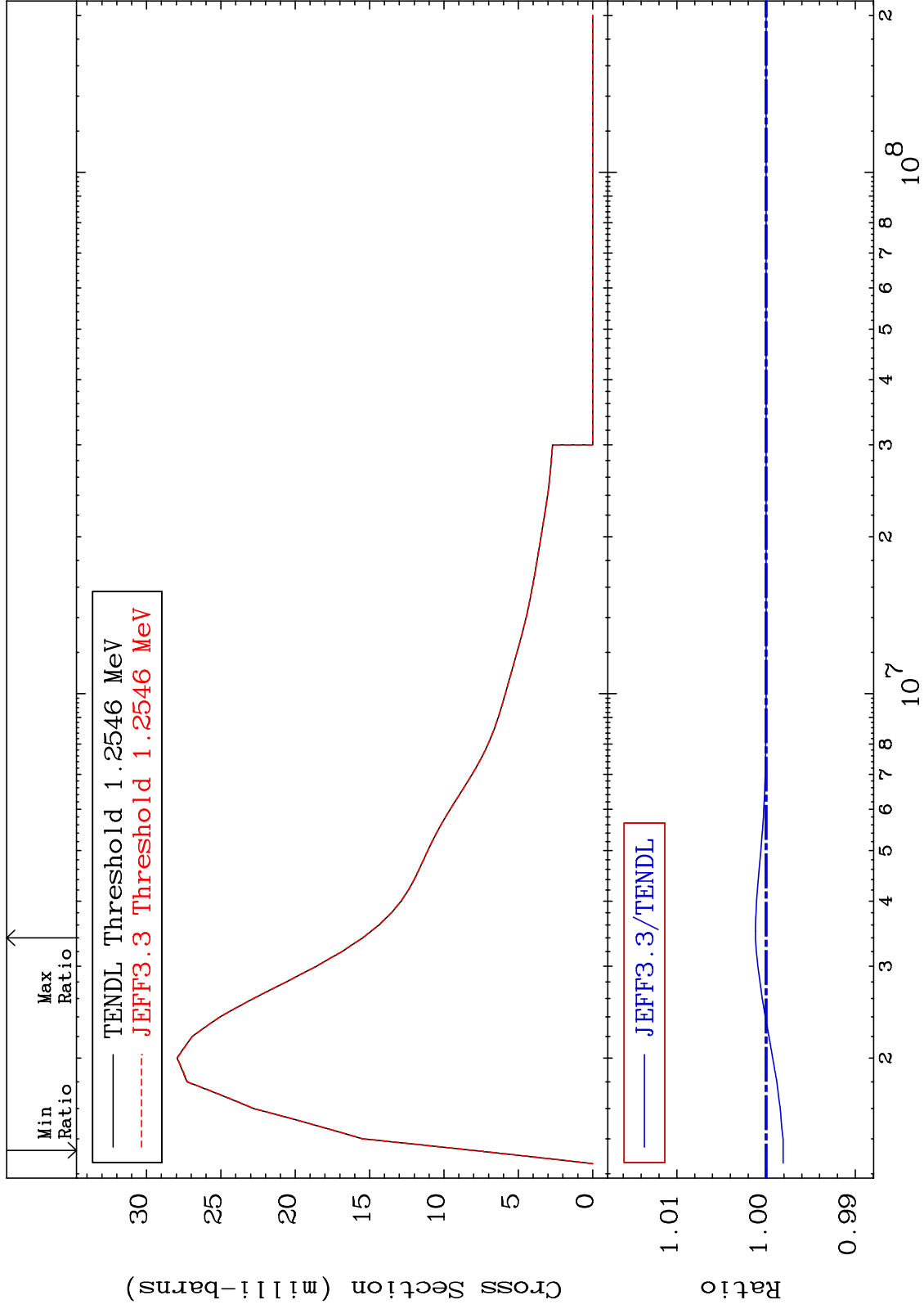
54-Xe-131
-0.286 To 0.650 %



MAT 5446

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

54-Xe-131
-0.190 To 0.120 %

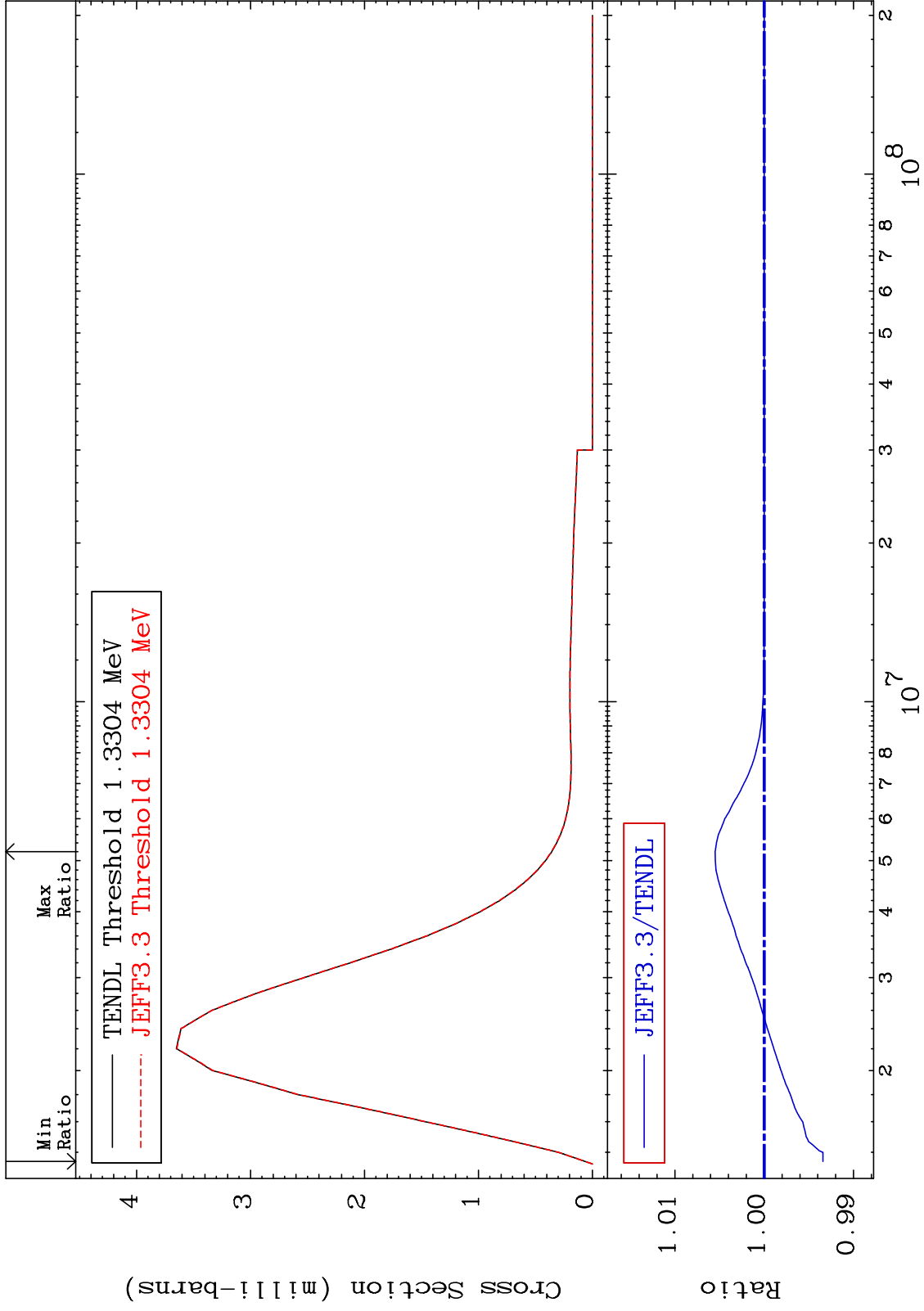


40

Incident Energy (eV)

54-Xe-131

MAT 5446 MT= 73 (n,n') Level
Cross Section 54-Xe-131
-0.659 To 0.549 %

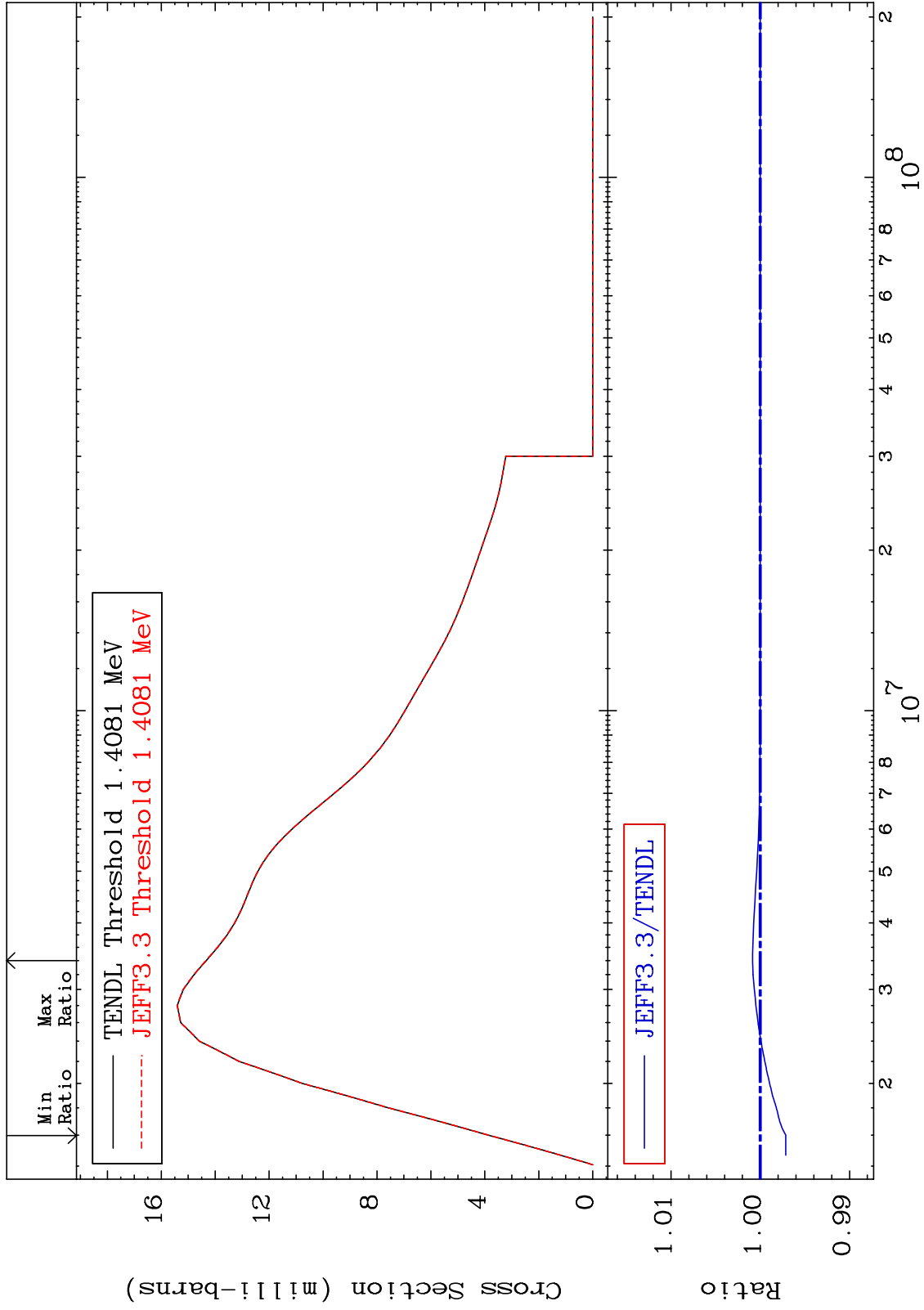


41 54-Xe-131

MAT 5446

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

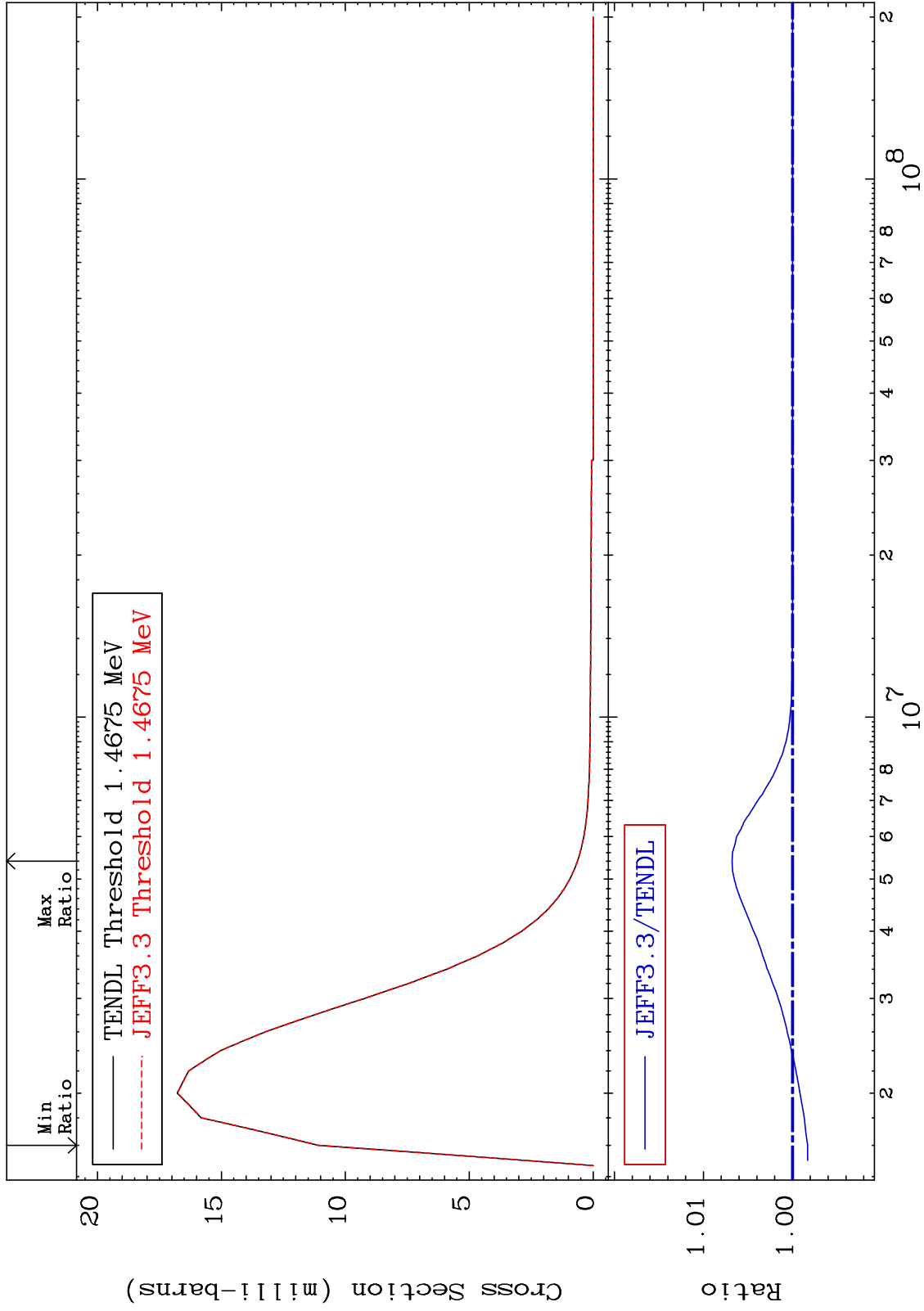
54-Xe-131
-0.286 To 0.086 %



MAT 5446

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

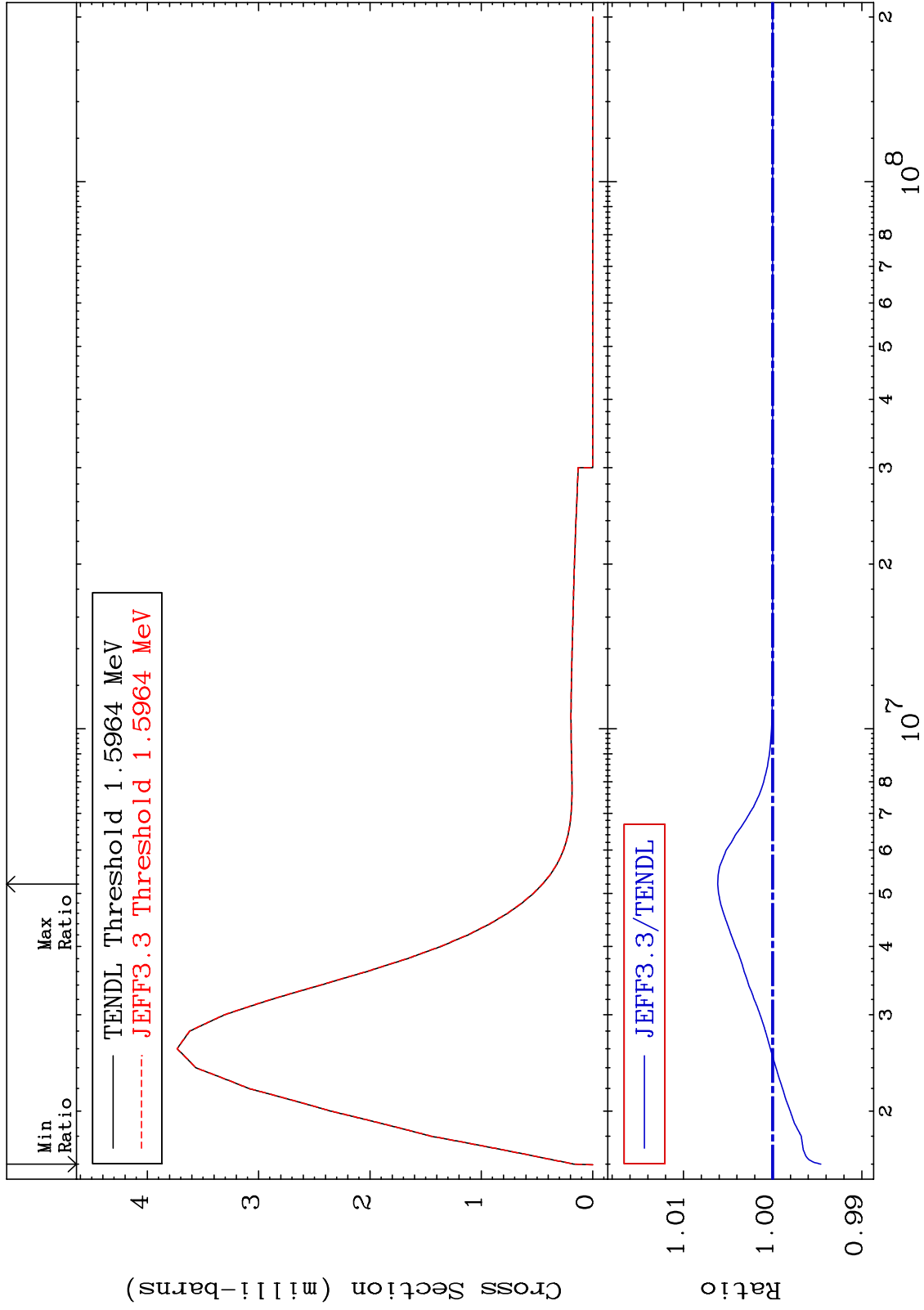
54-Xe-131
-0.170 To 0.678 %



MAT 5446

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

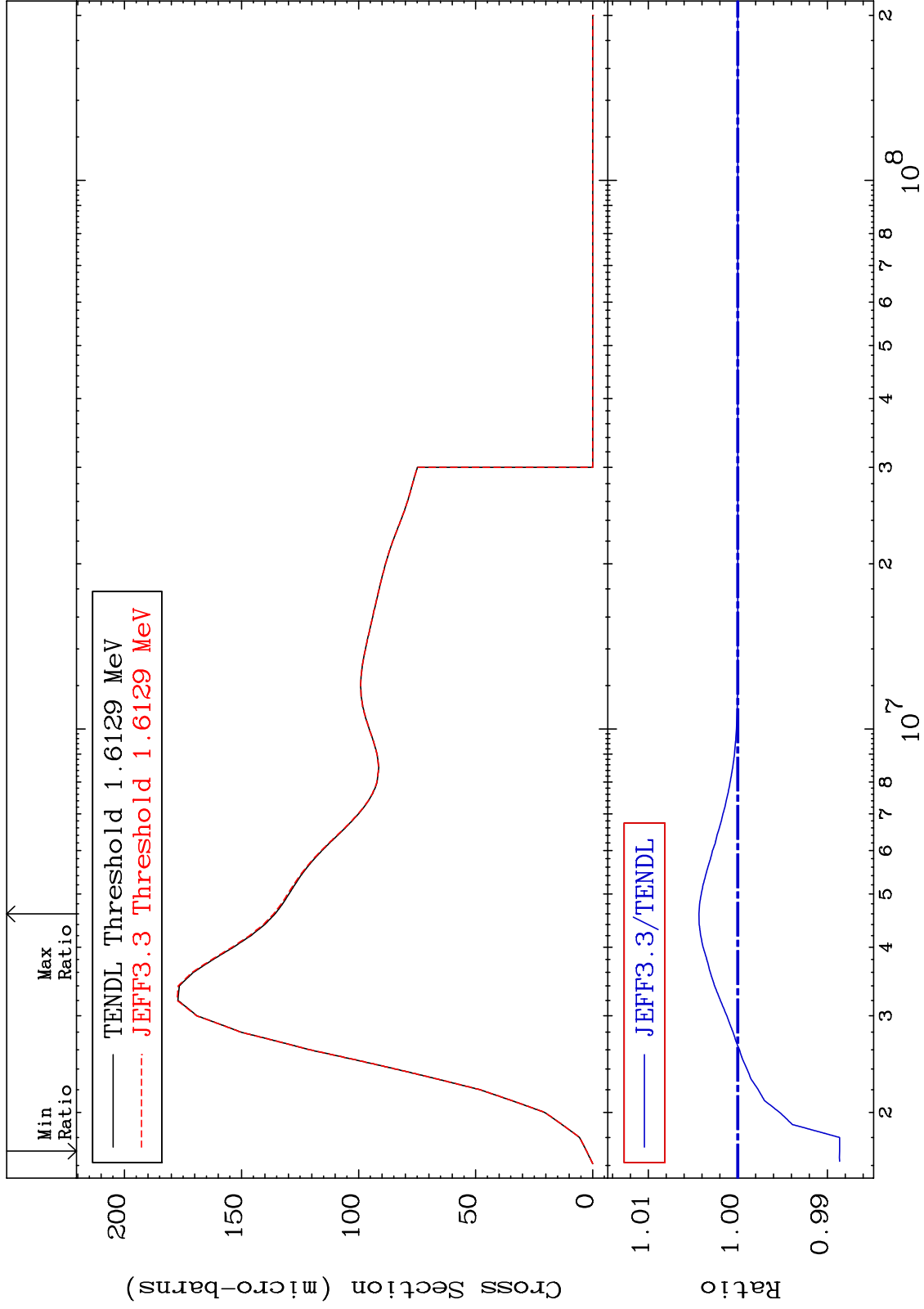
54-Xe-131
-0.541 To 0.617 %



MAT 5446

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

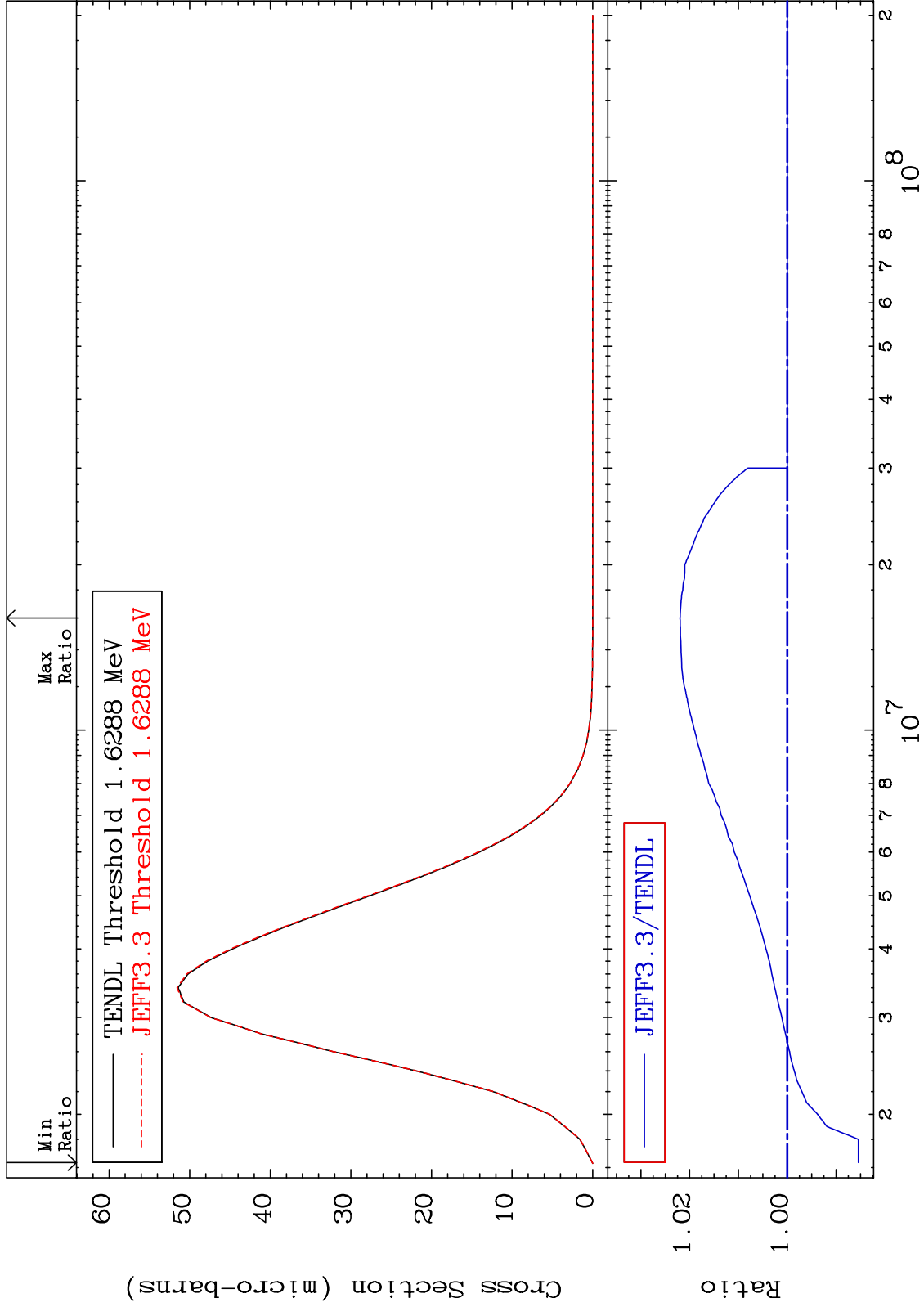
54-Xe-131
-1.136 To 0.434 %



MAT 5446

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

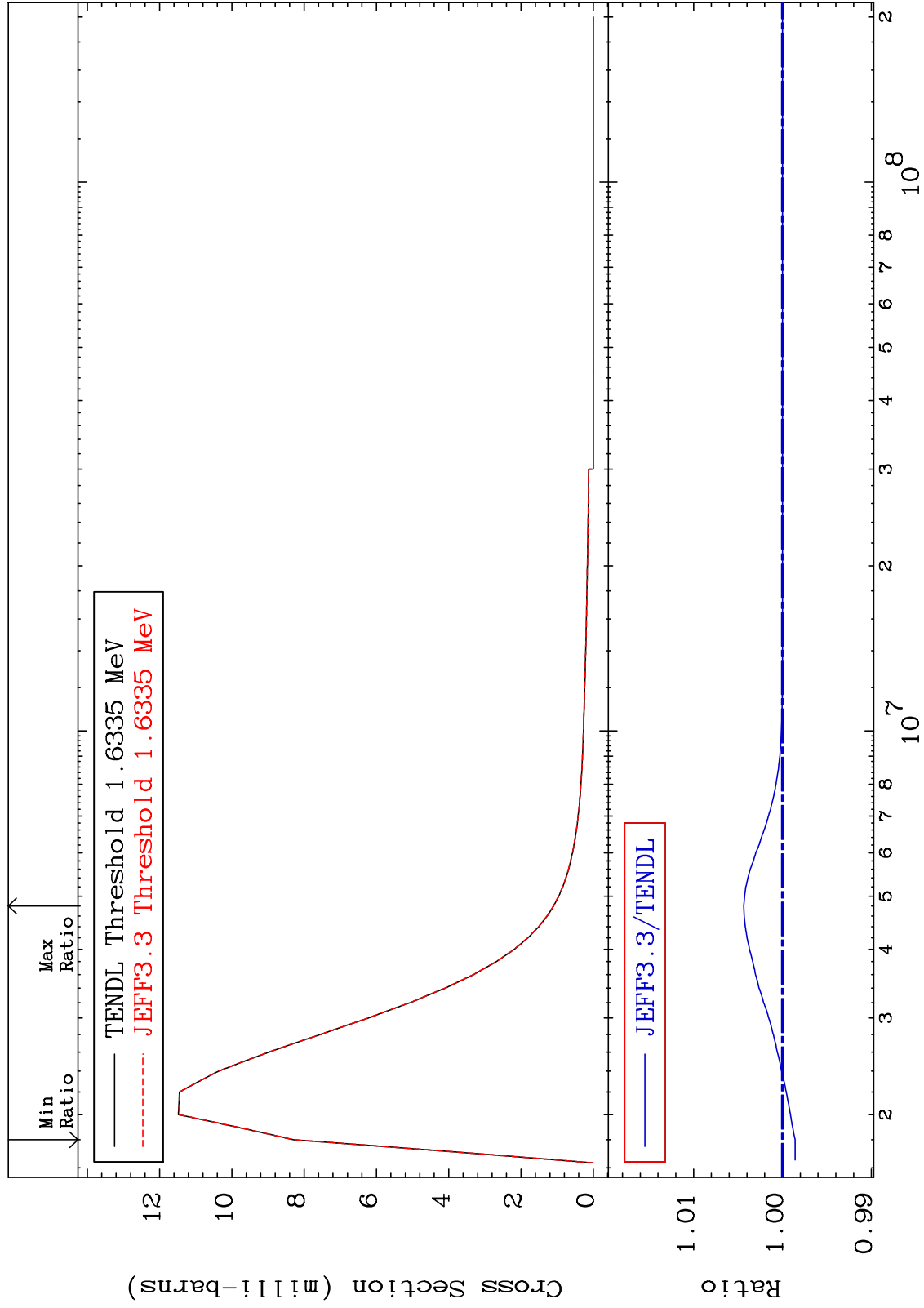
54-Xe-131
-1.456 To 2.197 %



MAT 5446

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

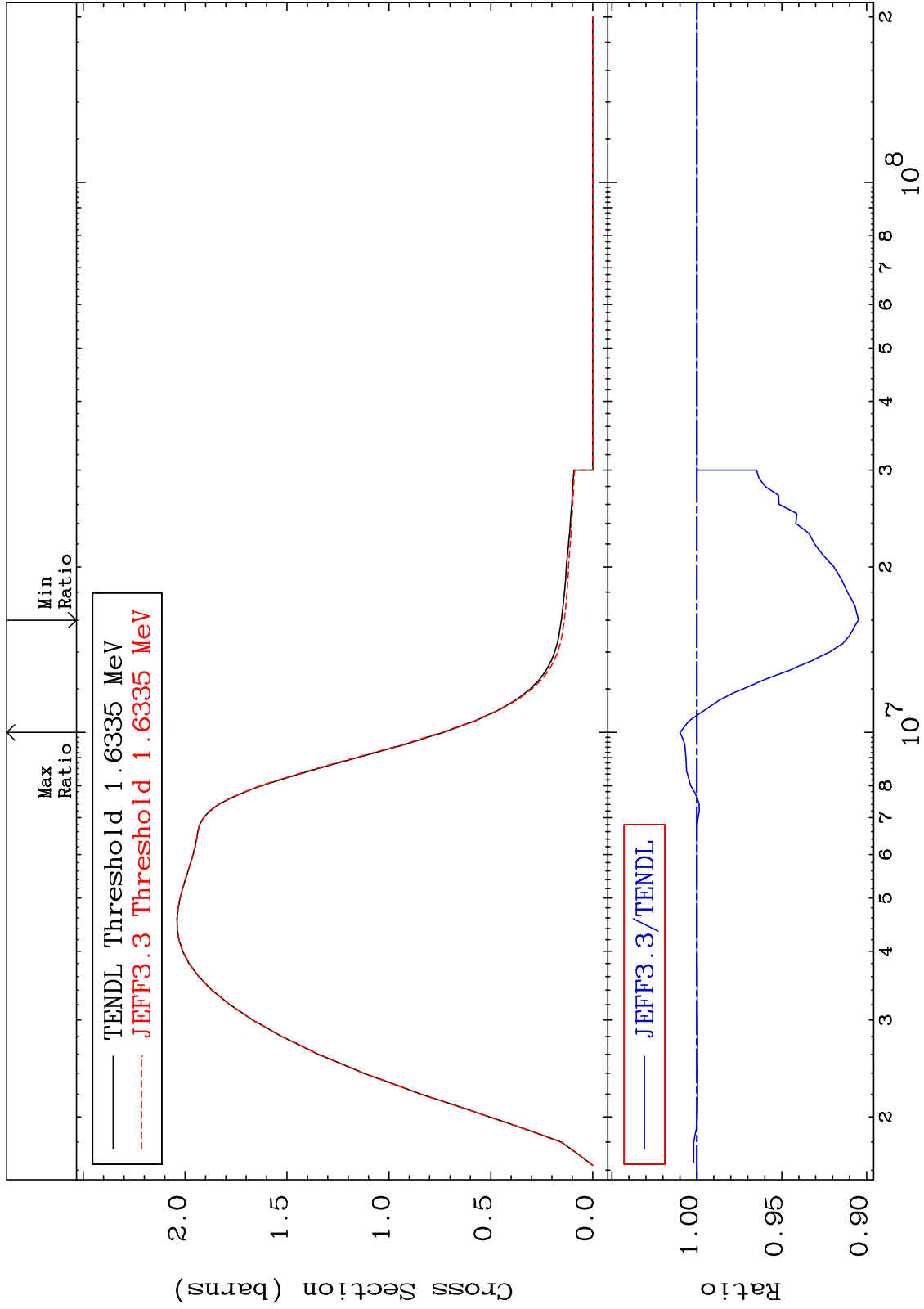
54-Xe-131
-0.142 To 0.435 %



MAT 5446

(n, n') Continuum
Cross Section

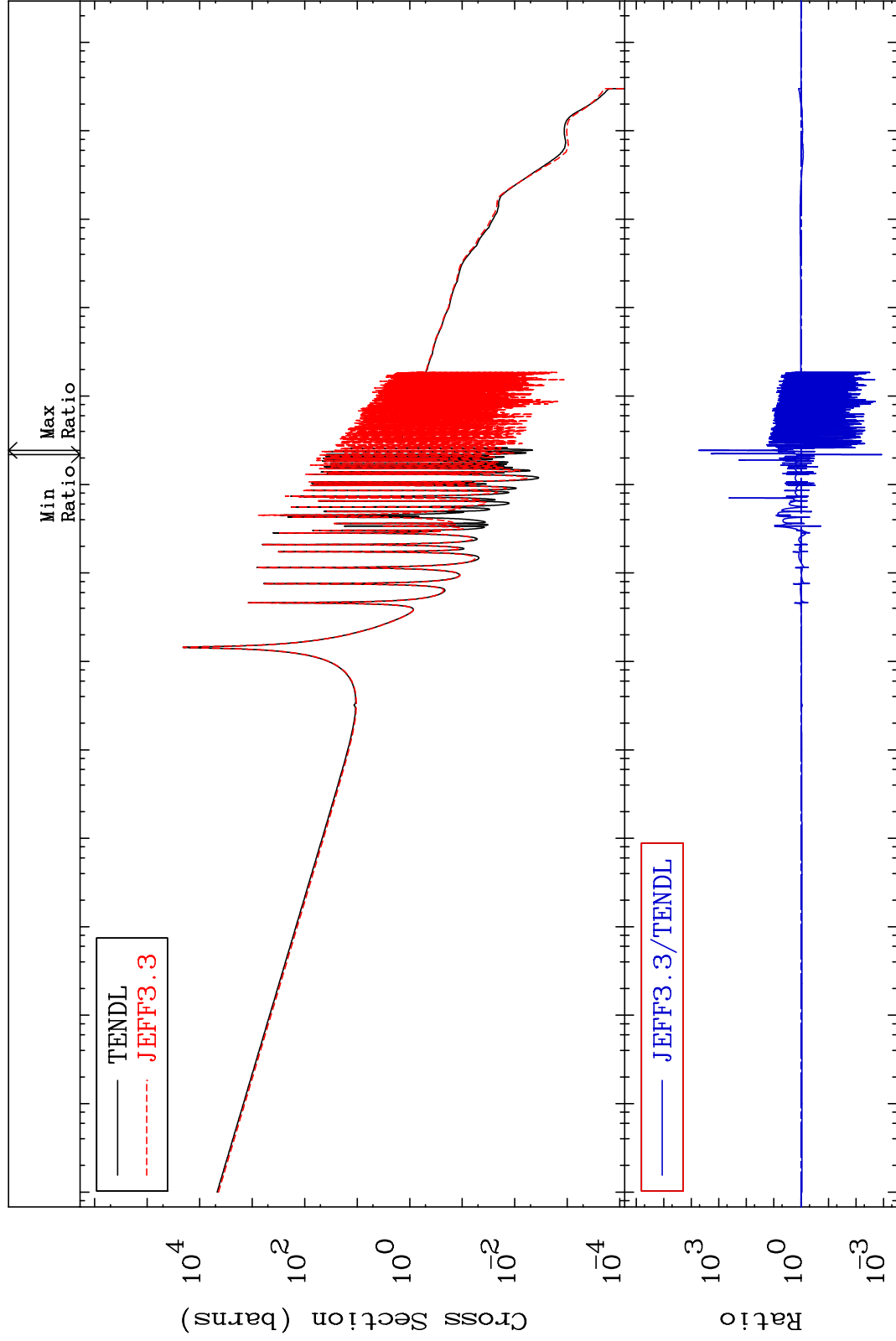
54-Xe-131
-9.514 To 0.992 %



MAT 5446

(n, γ)
Cross Section

54-Xe-131
-99.88 To 9999. %



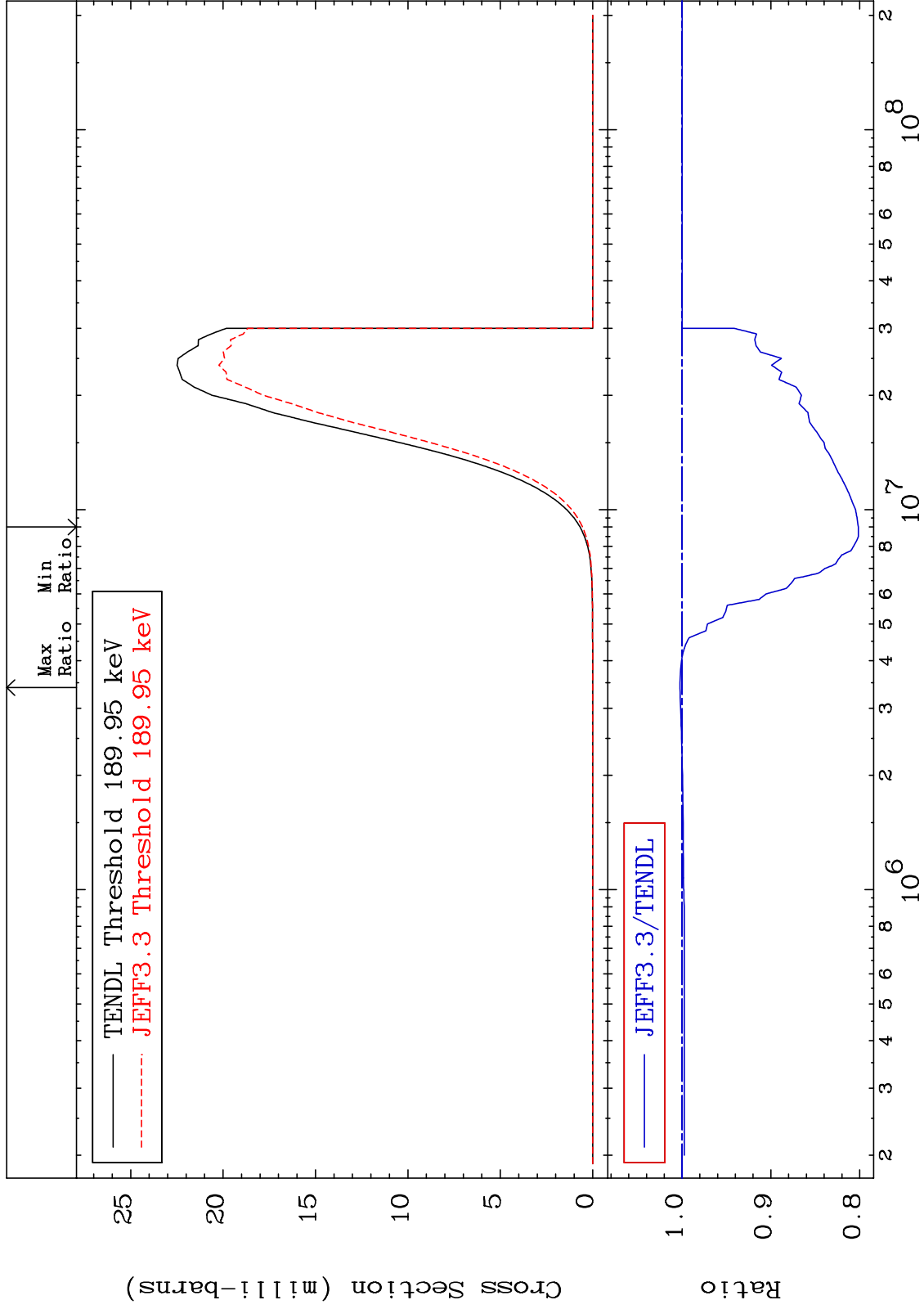
MAT 5446

(n, p)

54-Xe-131

Cross Section

-19.85 To 0.227 %



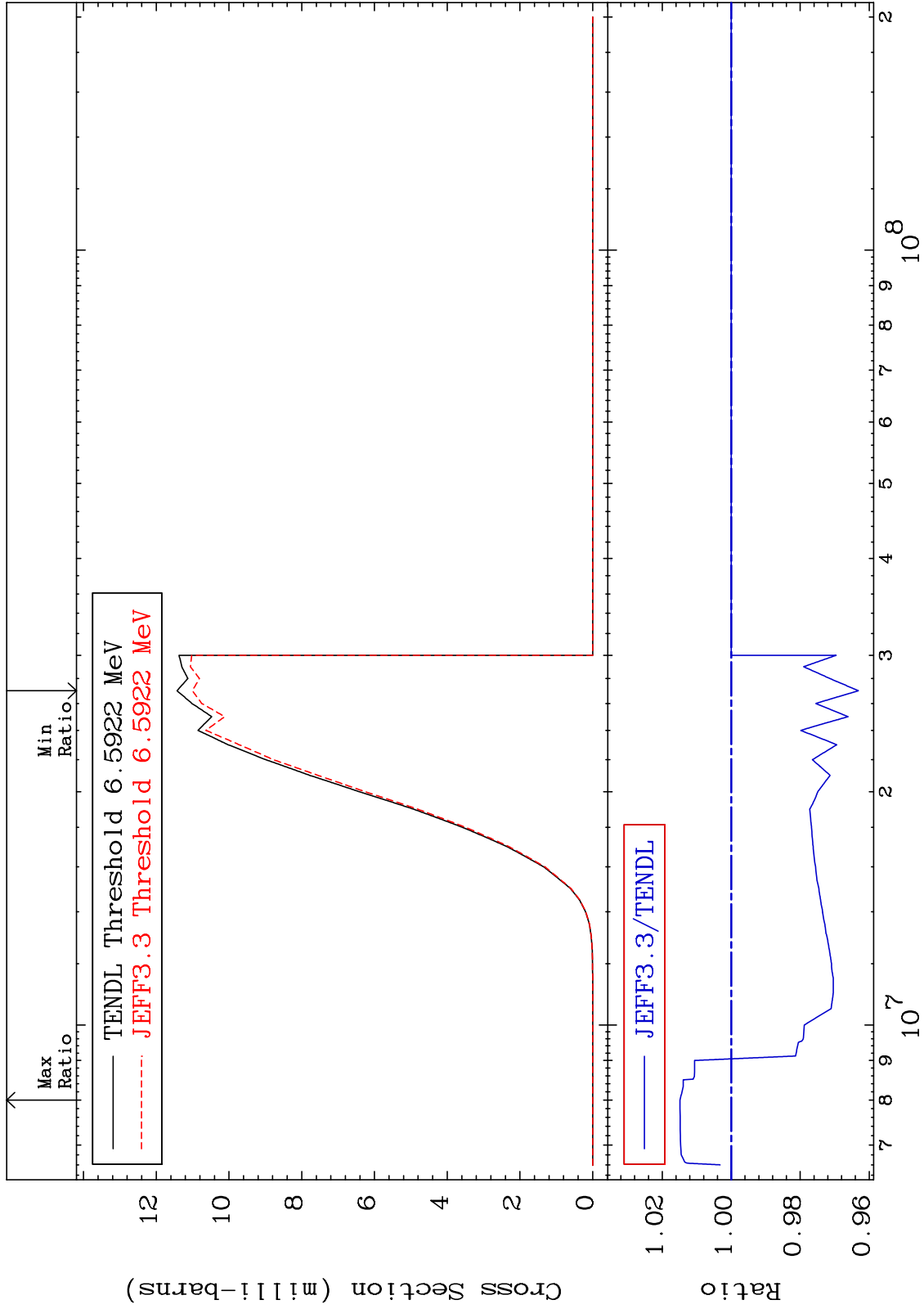
MAT 5446

(n, d)

54-Xe-131

Cross Section

-3.687 To 1.485 %



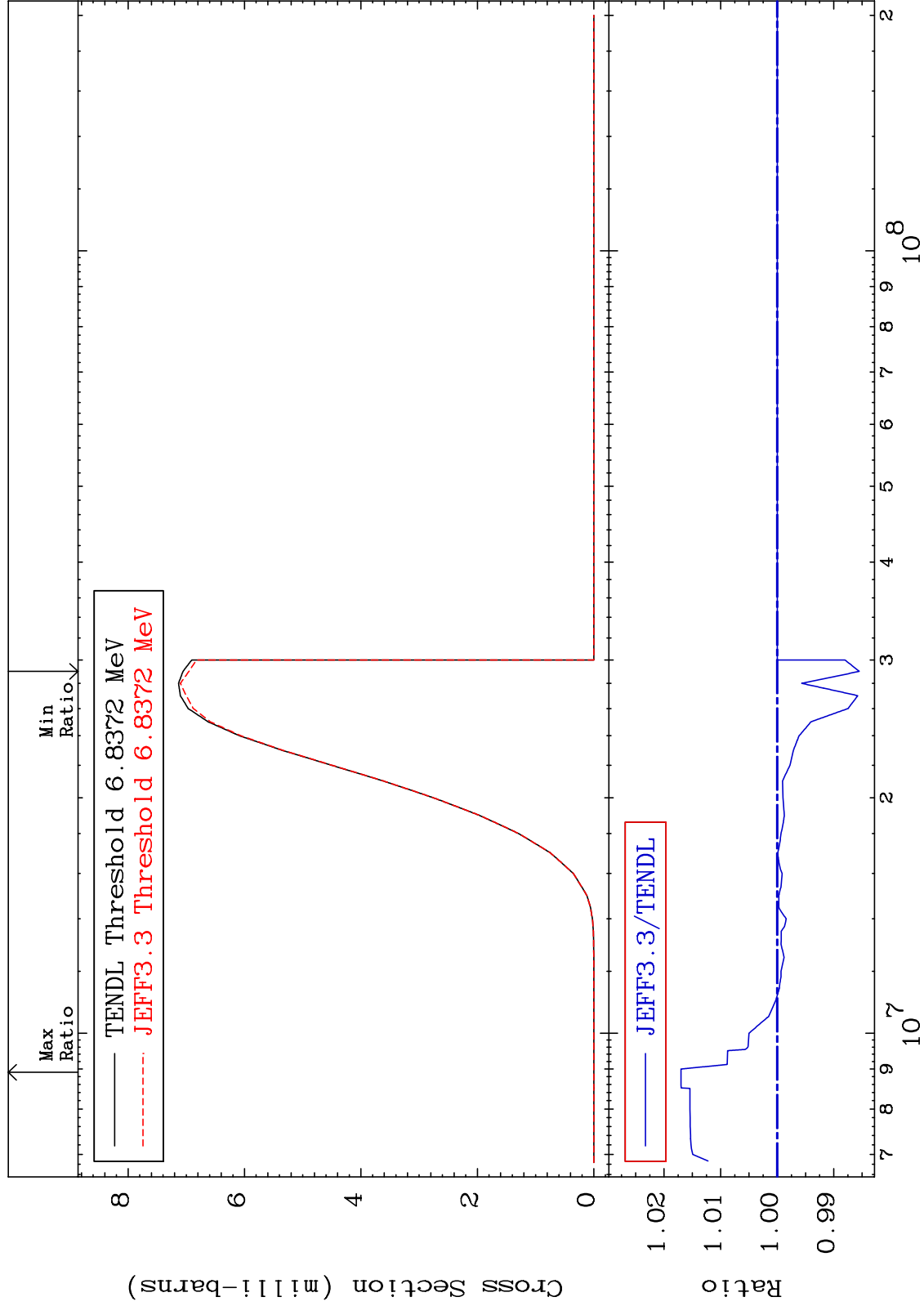
MAT 5446

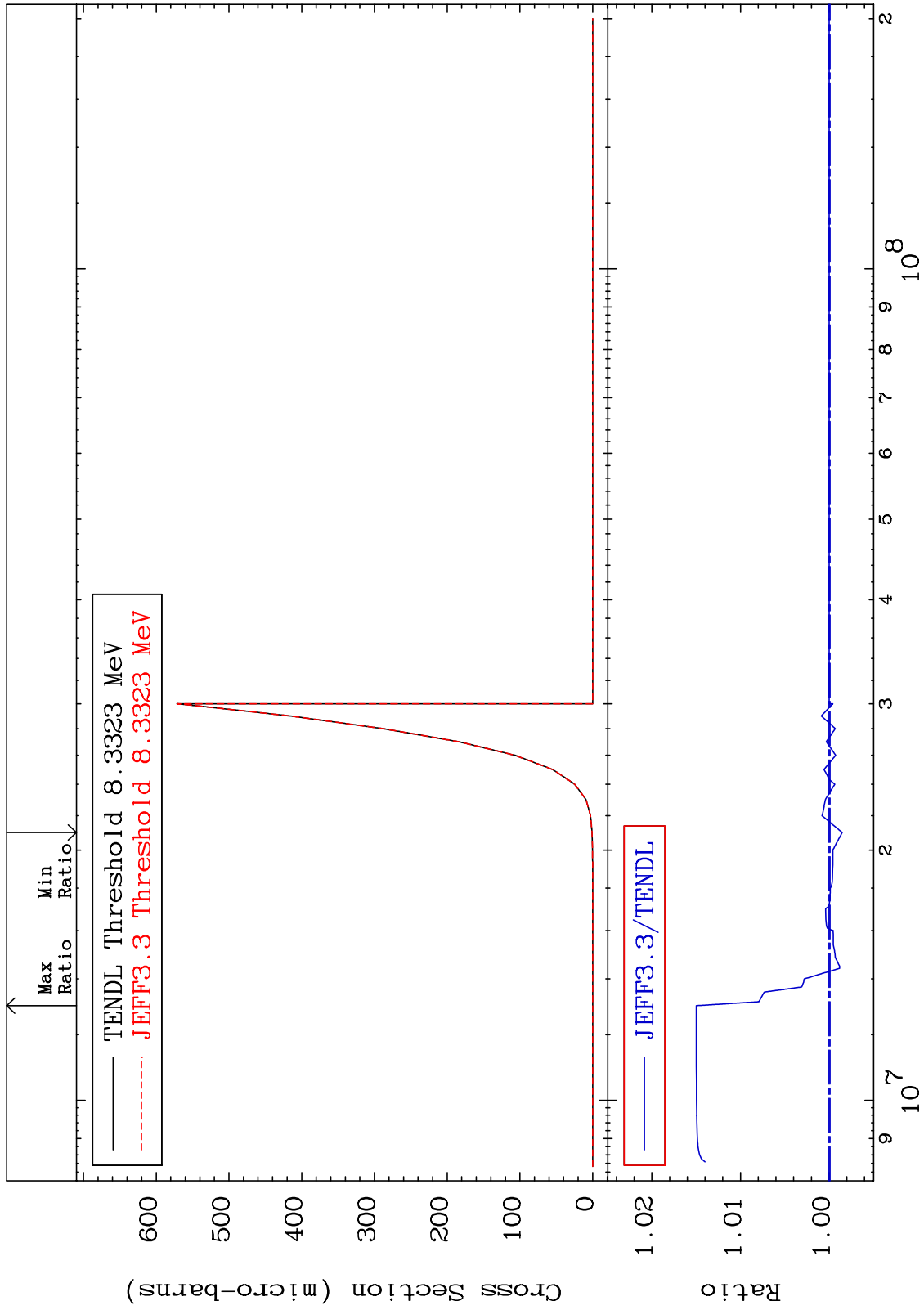
(n, t)

54-Xe-131

-1.449 To 1.698 %

Cross Section





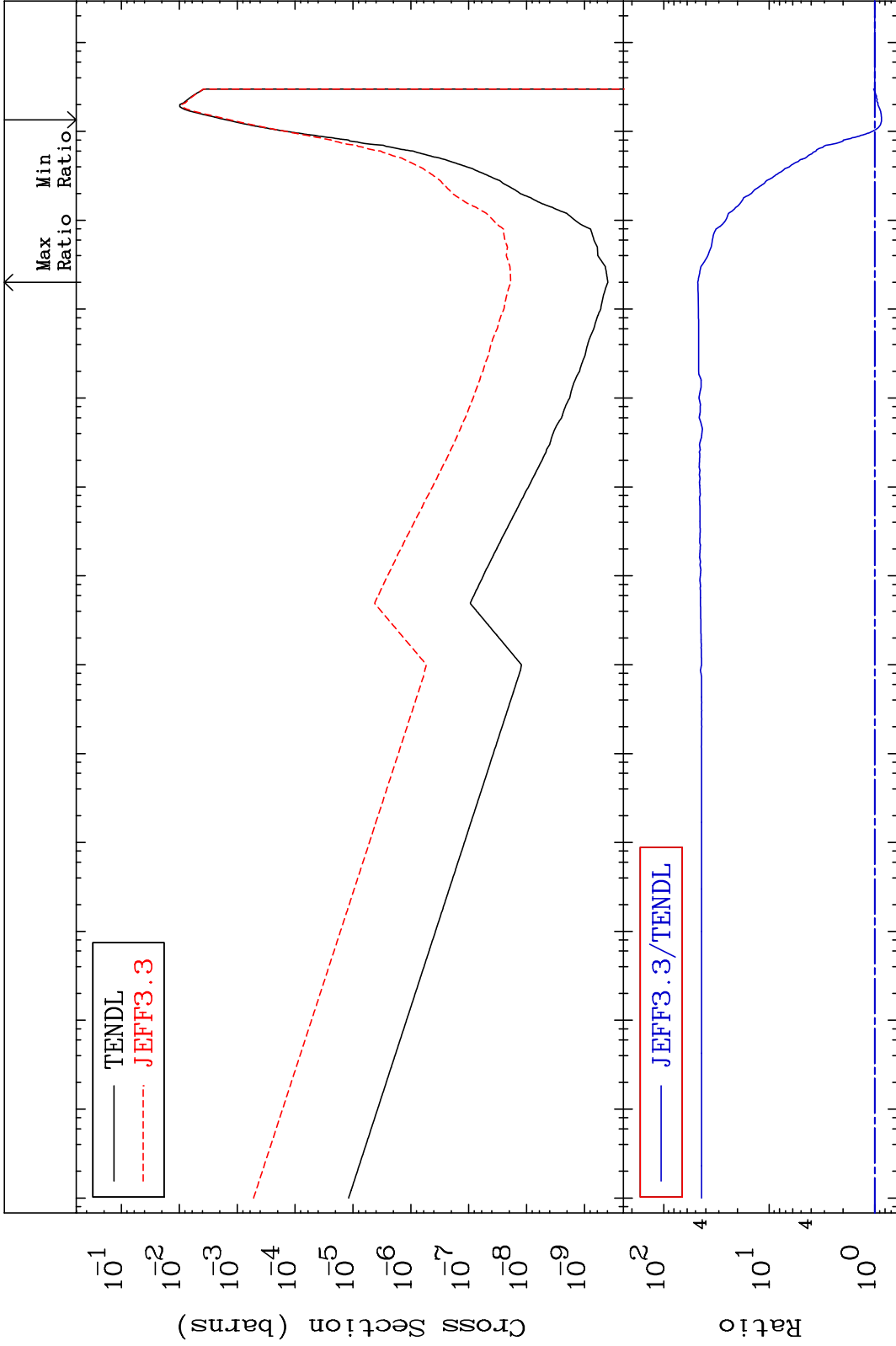
MAT 5446

(n, α)

54-Xe-131

Cross Section

-13.69 To 4657. %



Incident Energy (eV)

54

54-Xe-131

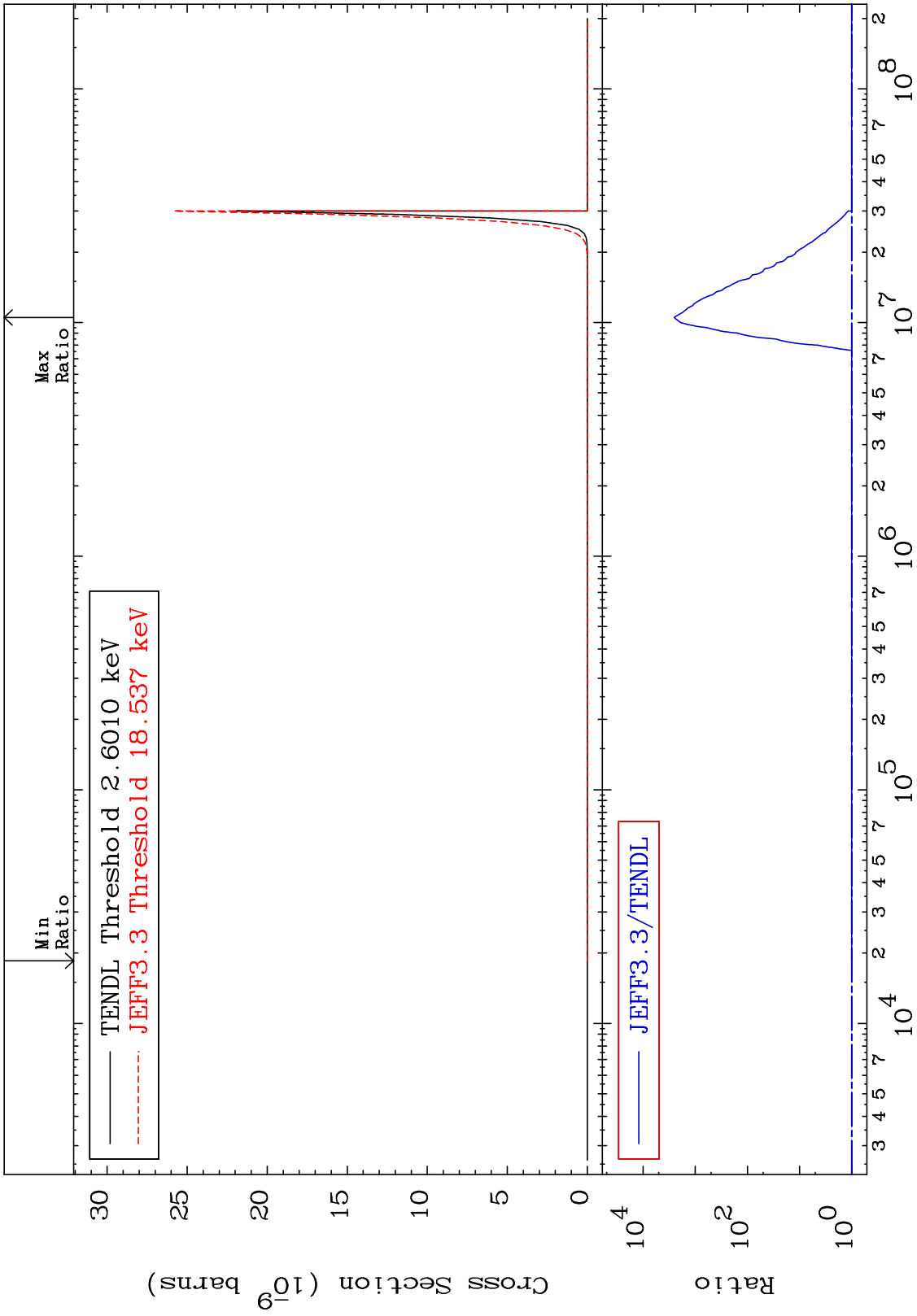
MAT 5446

(n,2α)

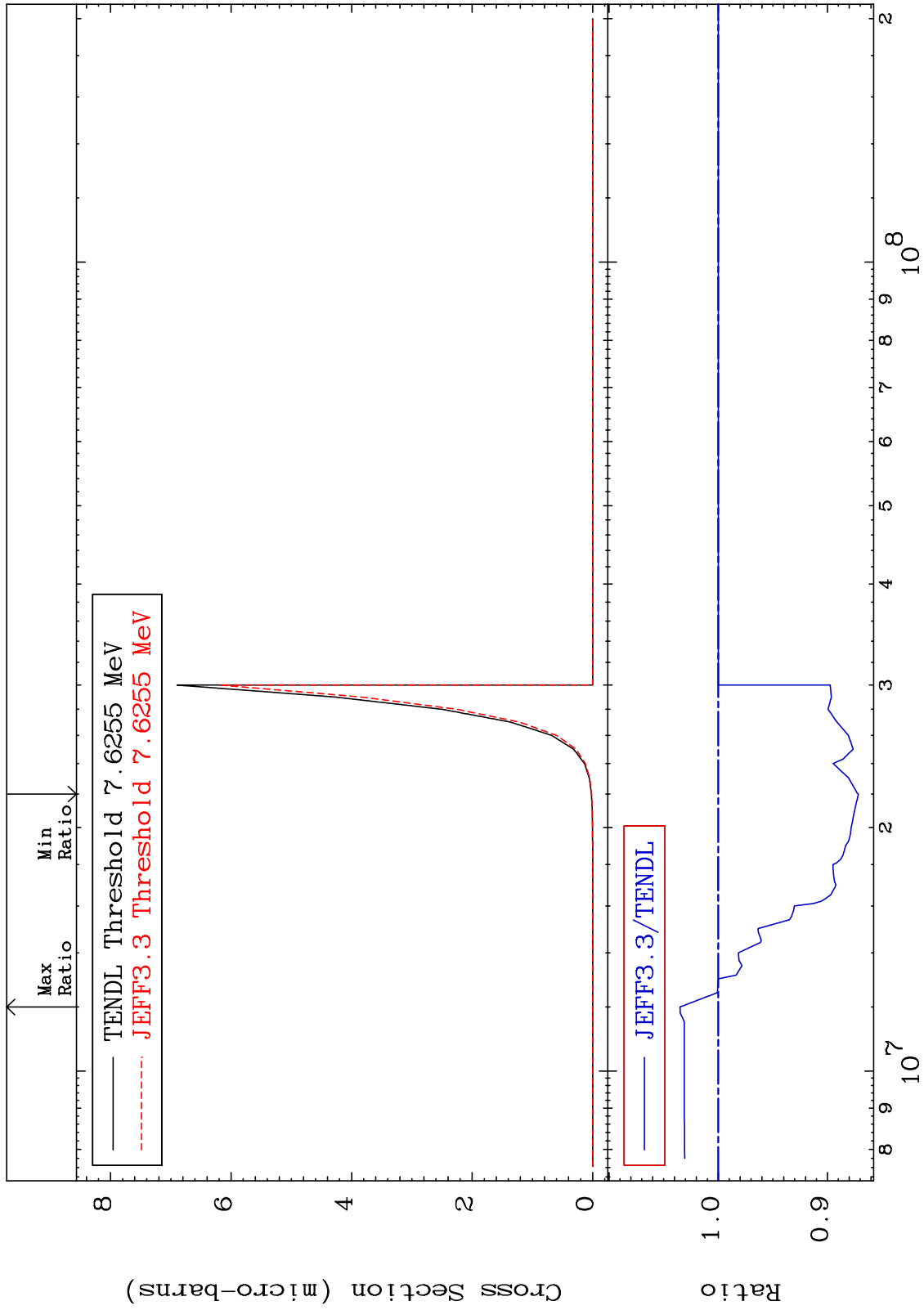
54-Xe-131

Cross Section

0.000 To 9999. %



MAT 5446 (n,2p) Cross Section 54-Xe-131 -12.84 To 3.502 %



56 54-Xe-131 Incident Energy (eV)

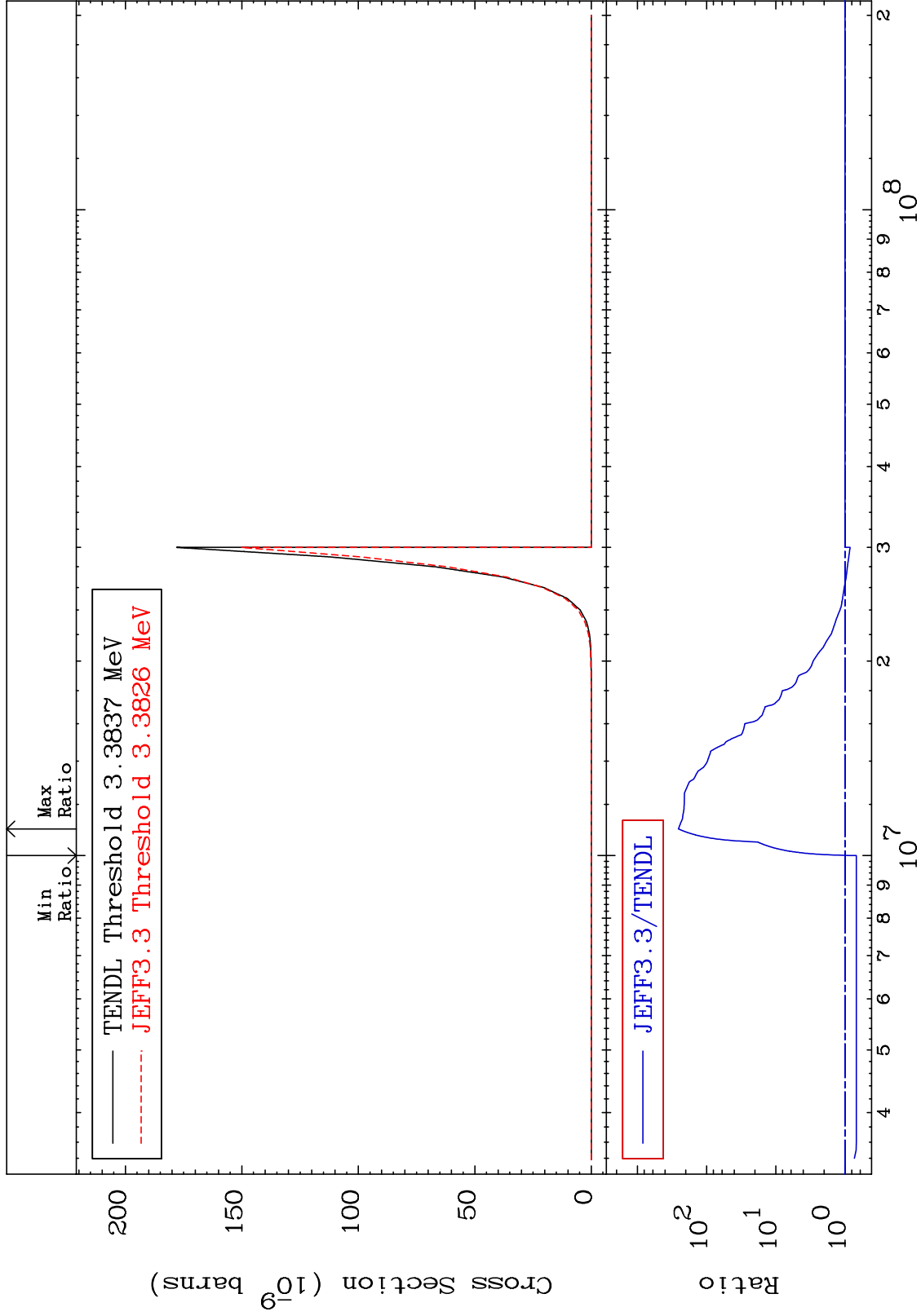
MAT 5446

(n,p) α

54-Xe-131

Cross Section

-31.54 To 9999. %



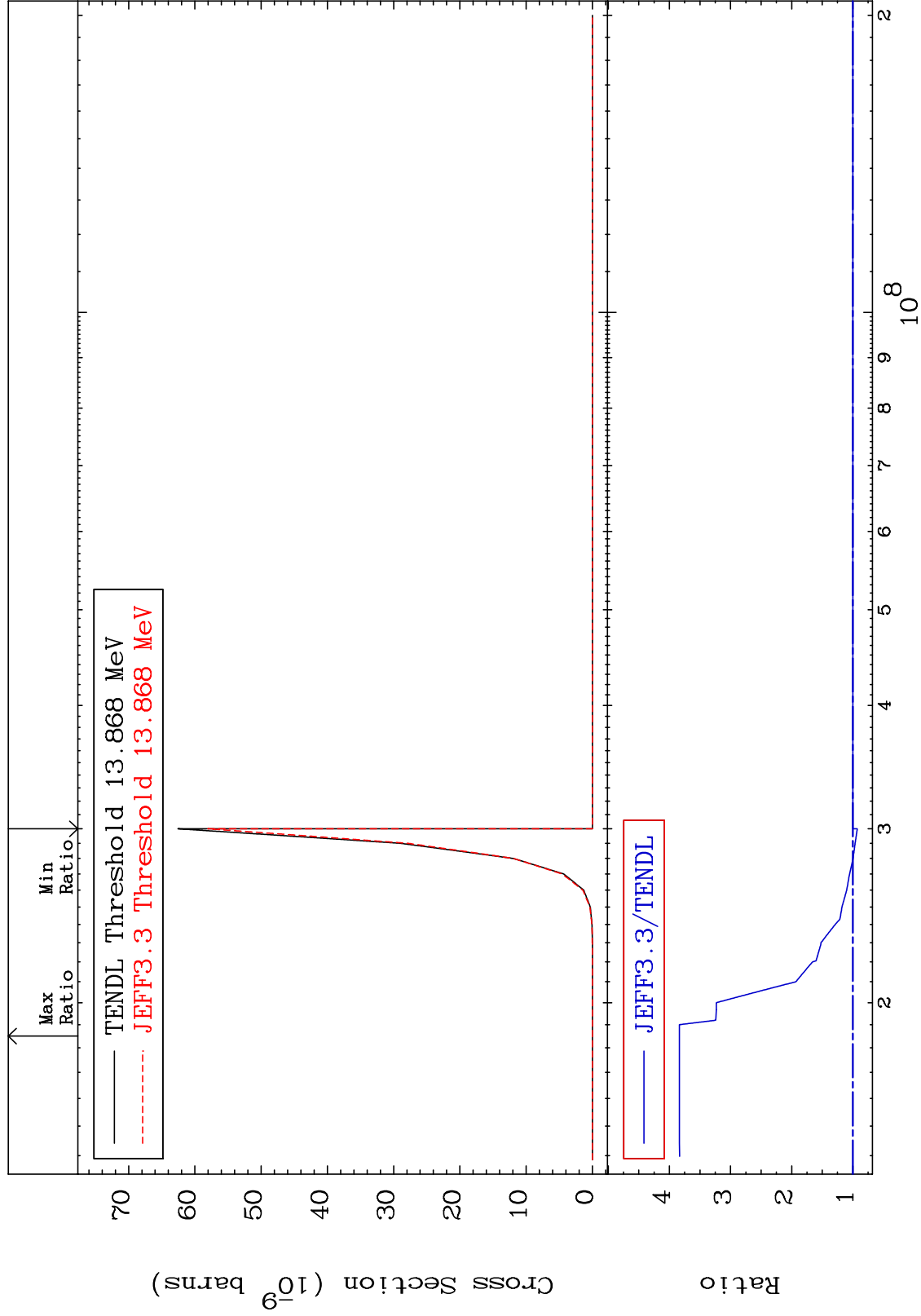
MAT 5446

(n,p) d

54-Xe-131

Cross Section

-7.260 To 283.6 %



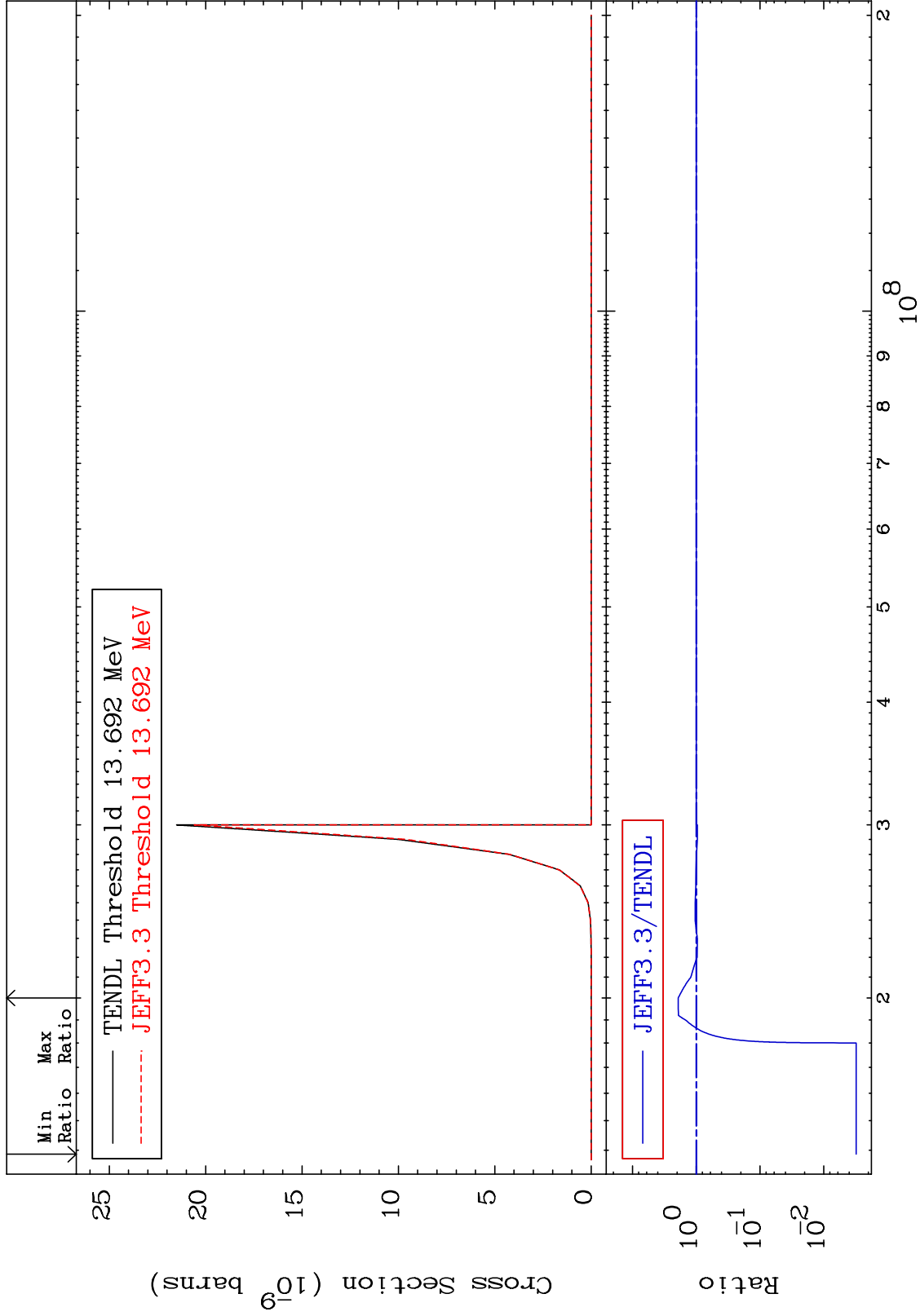
MAT 5446

(n,p) t

54-Xe-131

Cross Section

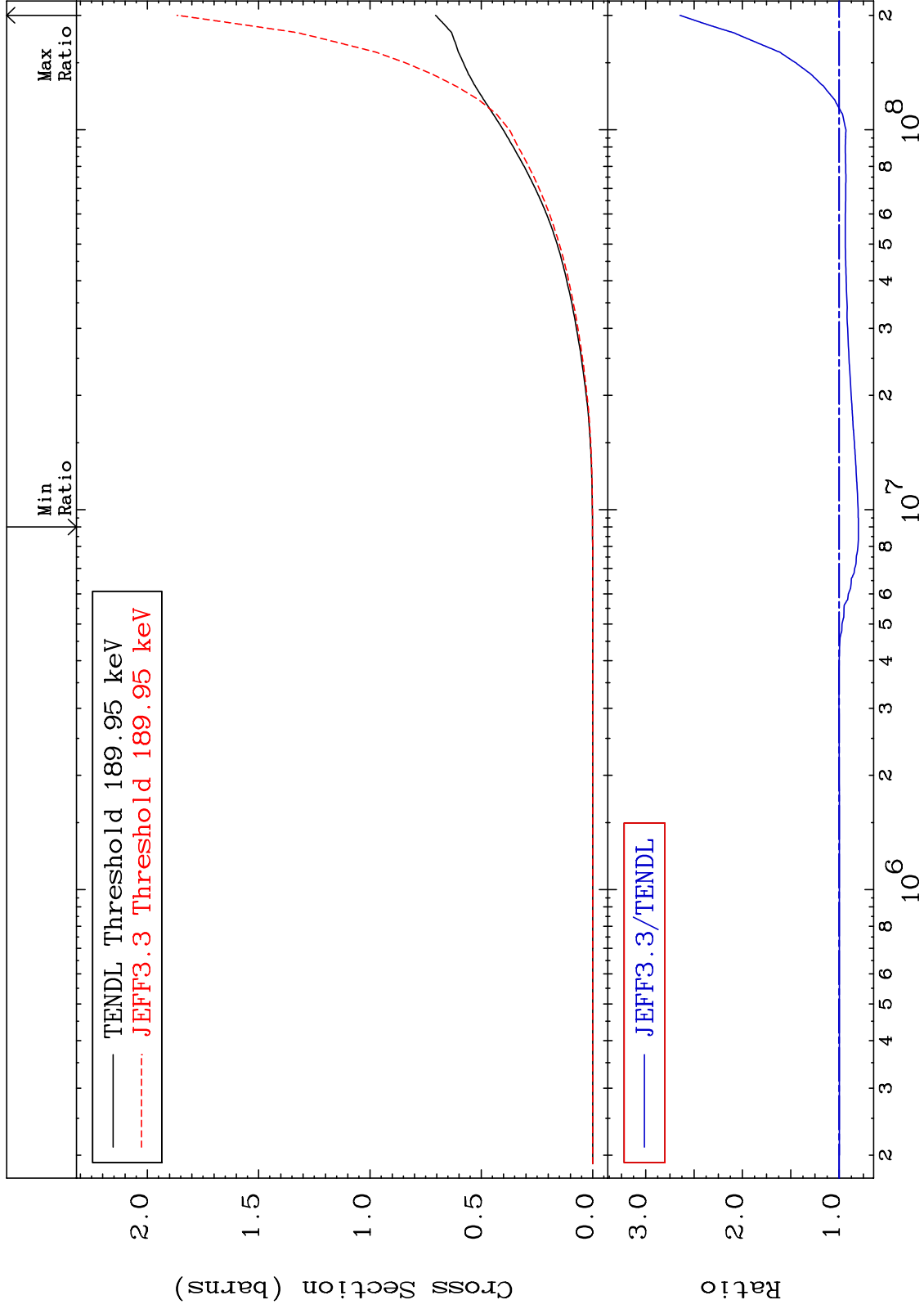
-99.69 To 91.25 %



MAT 5446

Hydrogen Production
Cross Section

54-Xe-131
-19.85 To 164.5 %



60

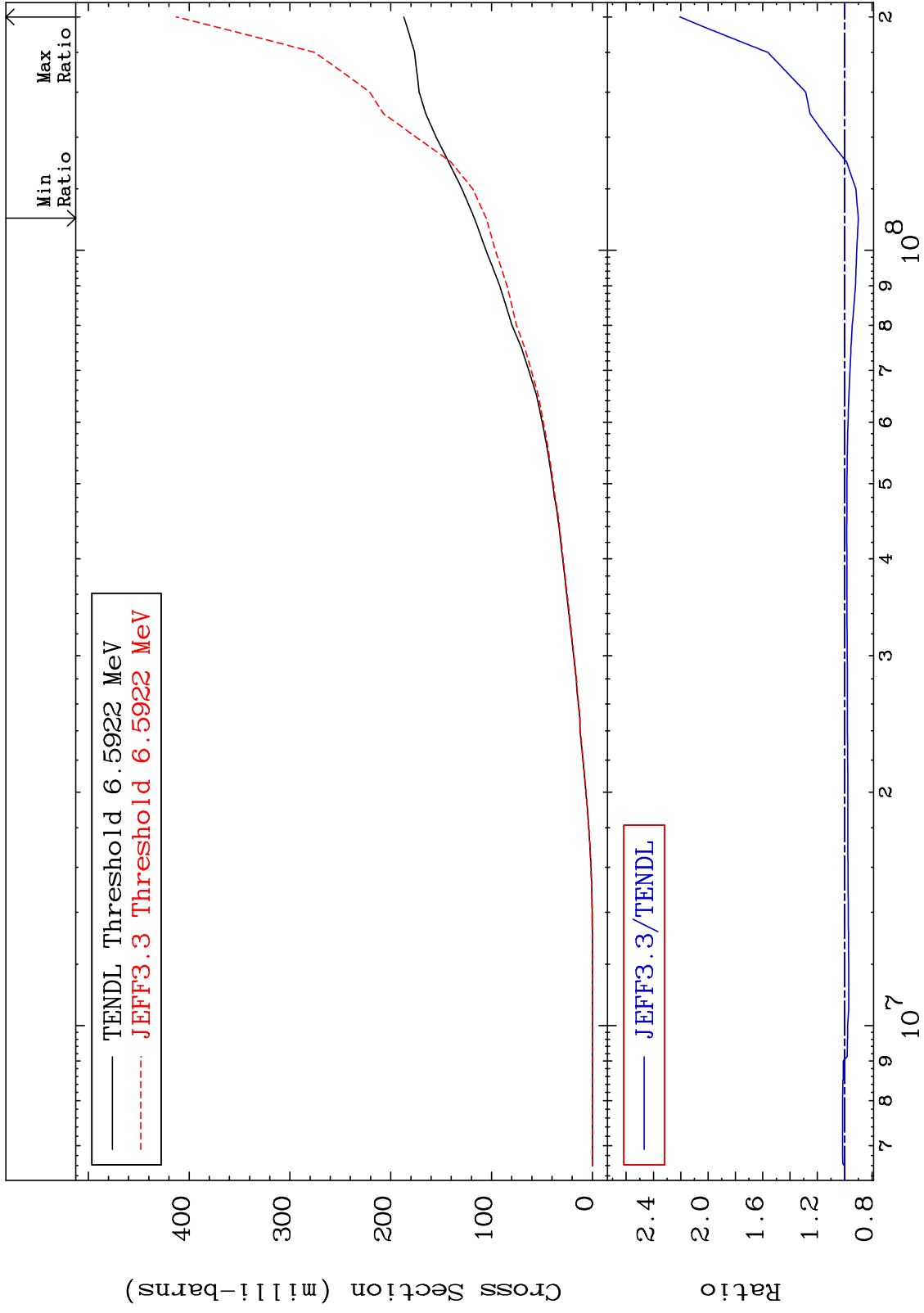
Incident Energy (eV)

54-Xe-131

MAT 5446

Deuterium Production
Cross Section

54-Xe-131
-10.04 To 120.7 %



61

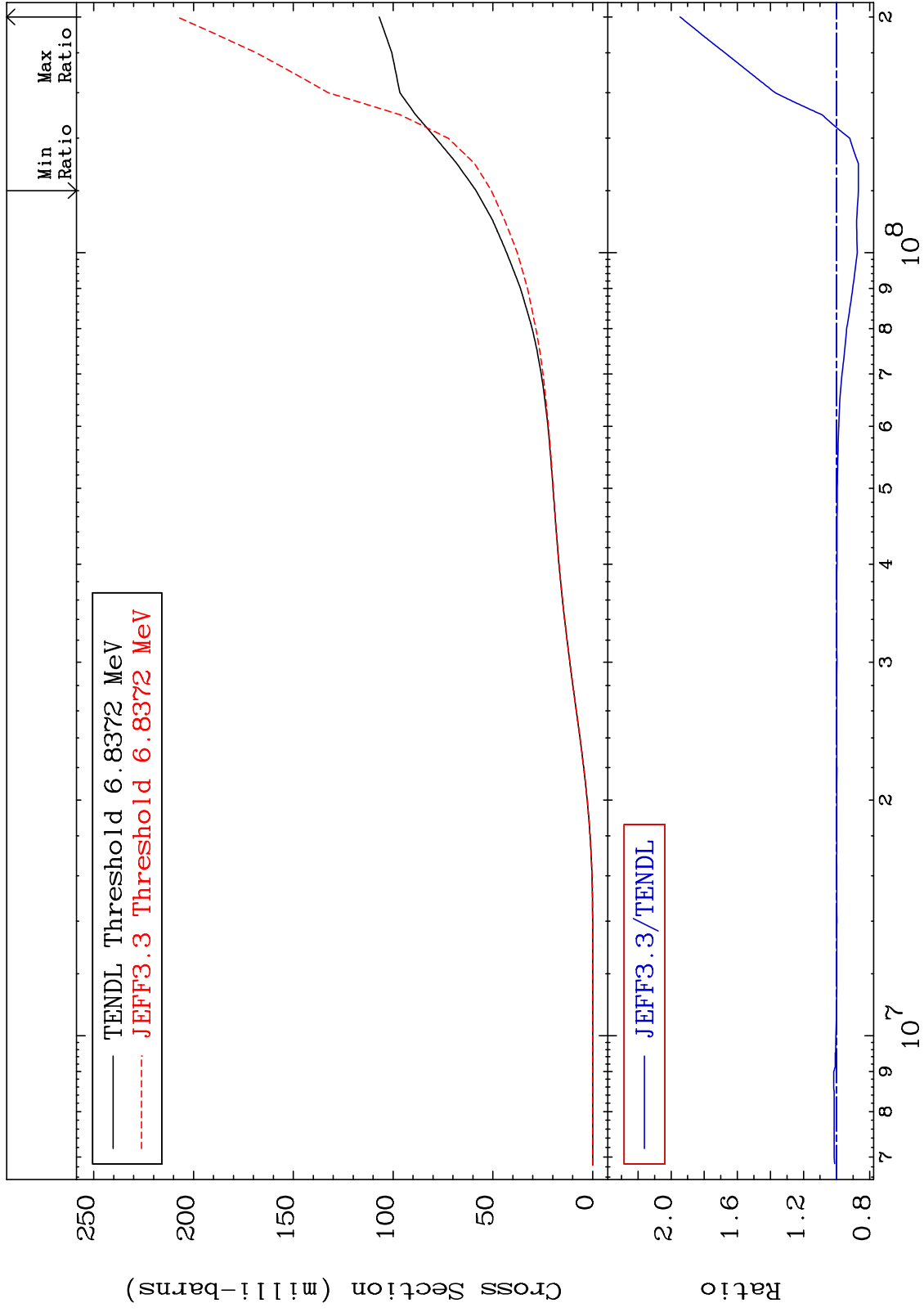
Incident Energy (eV)

54-Xe-131

MAT 5446

Tritium Production
Cross Section

54-Xe-131
-13.16 To 94.64 %



62

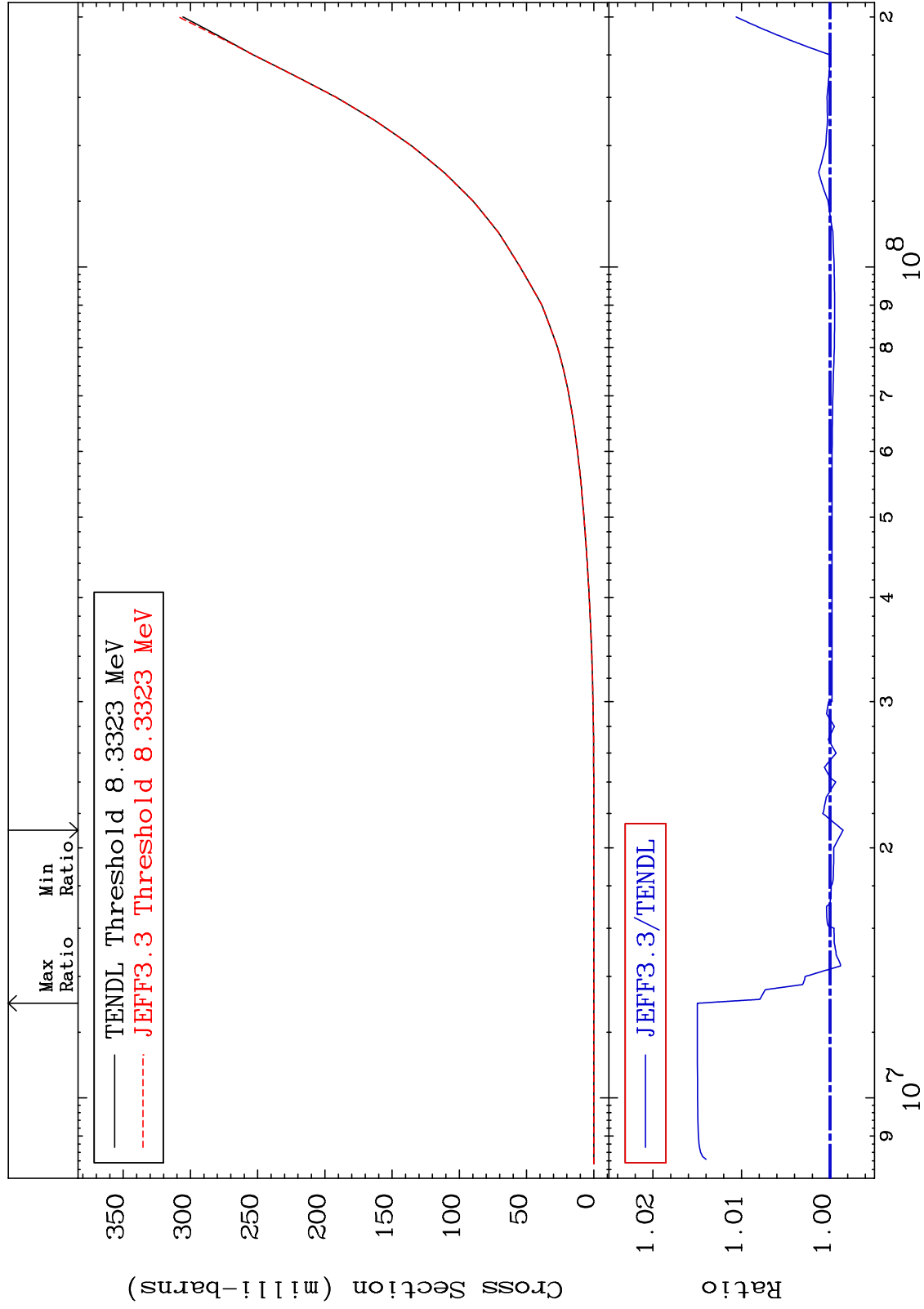
Incident Energy (eV)

54-Xe-131

MAT 5446

He-3 Production
Cross Section

54-Xe-131
-0.148 To 1.500 %



63

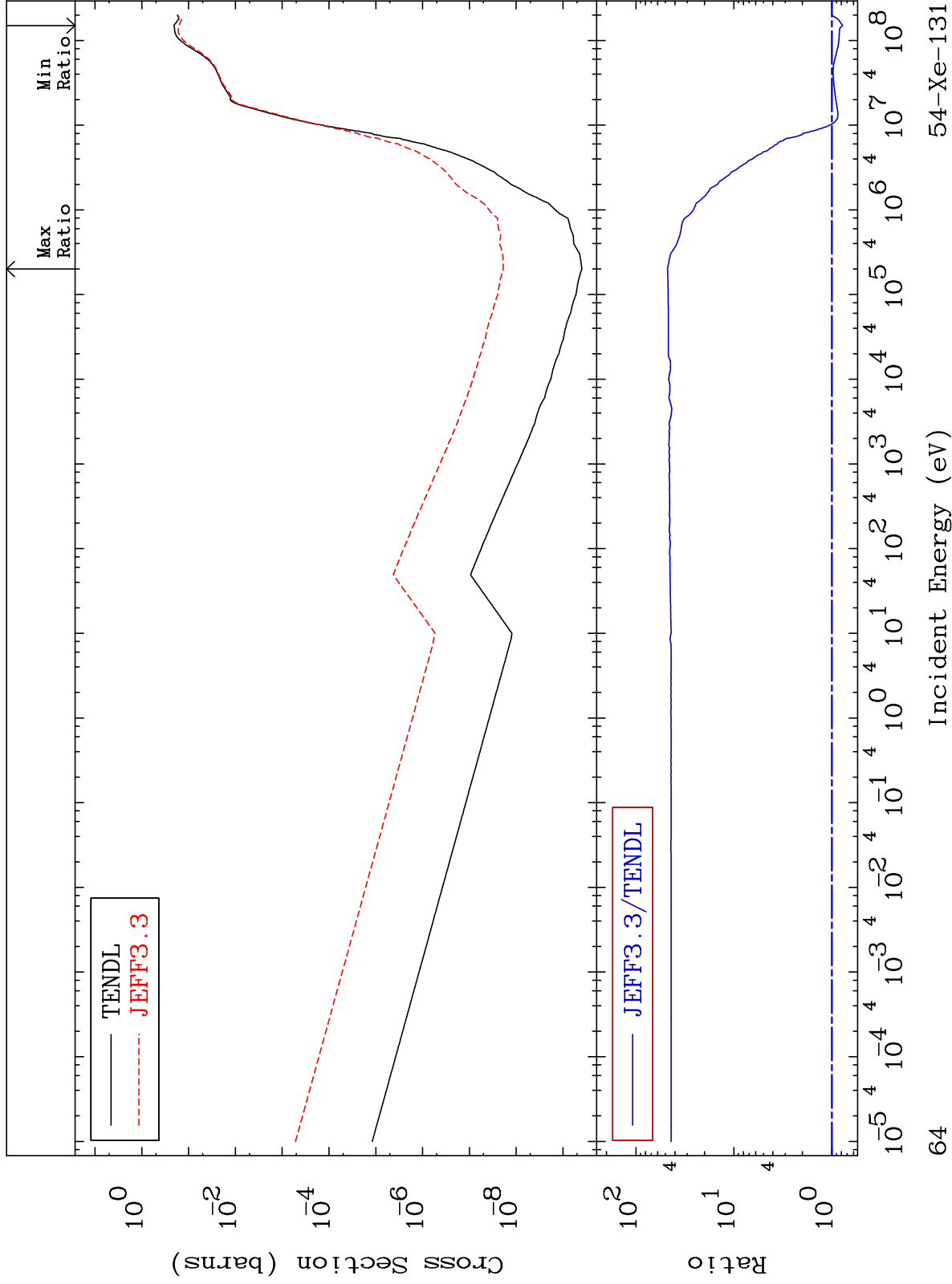
Incident Energy (eV)

54-Xe-131

MAT 5446

He-4 Production
Cross Section

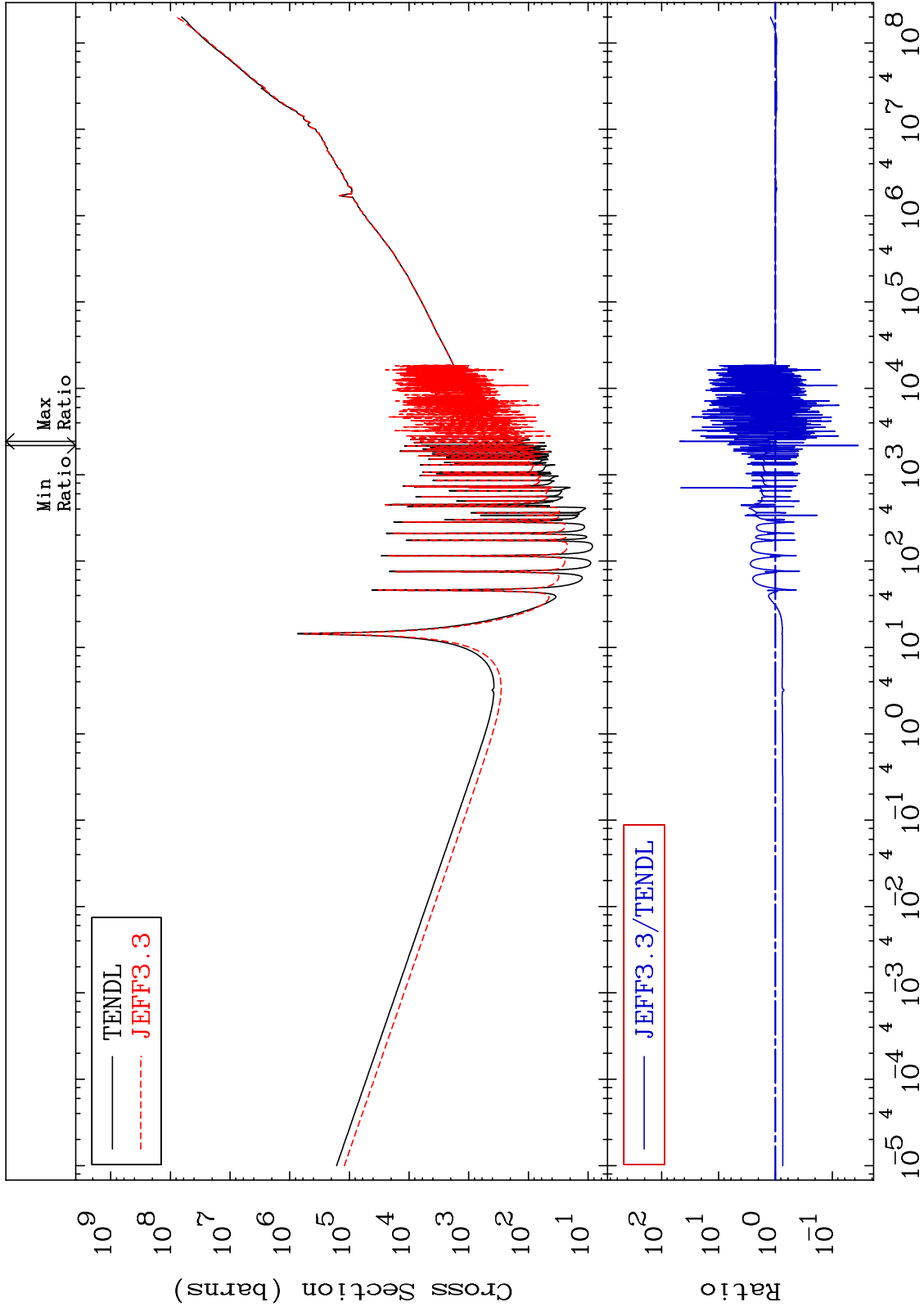
54-Xe-131
-22.34 To 4657. %



MAT 5446

Kerma total (eV-barns)
Cross Section

54-Xe-131
-96.53 To 4690. %



65

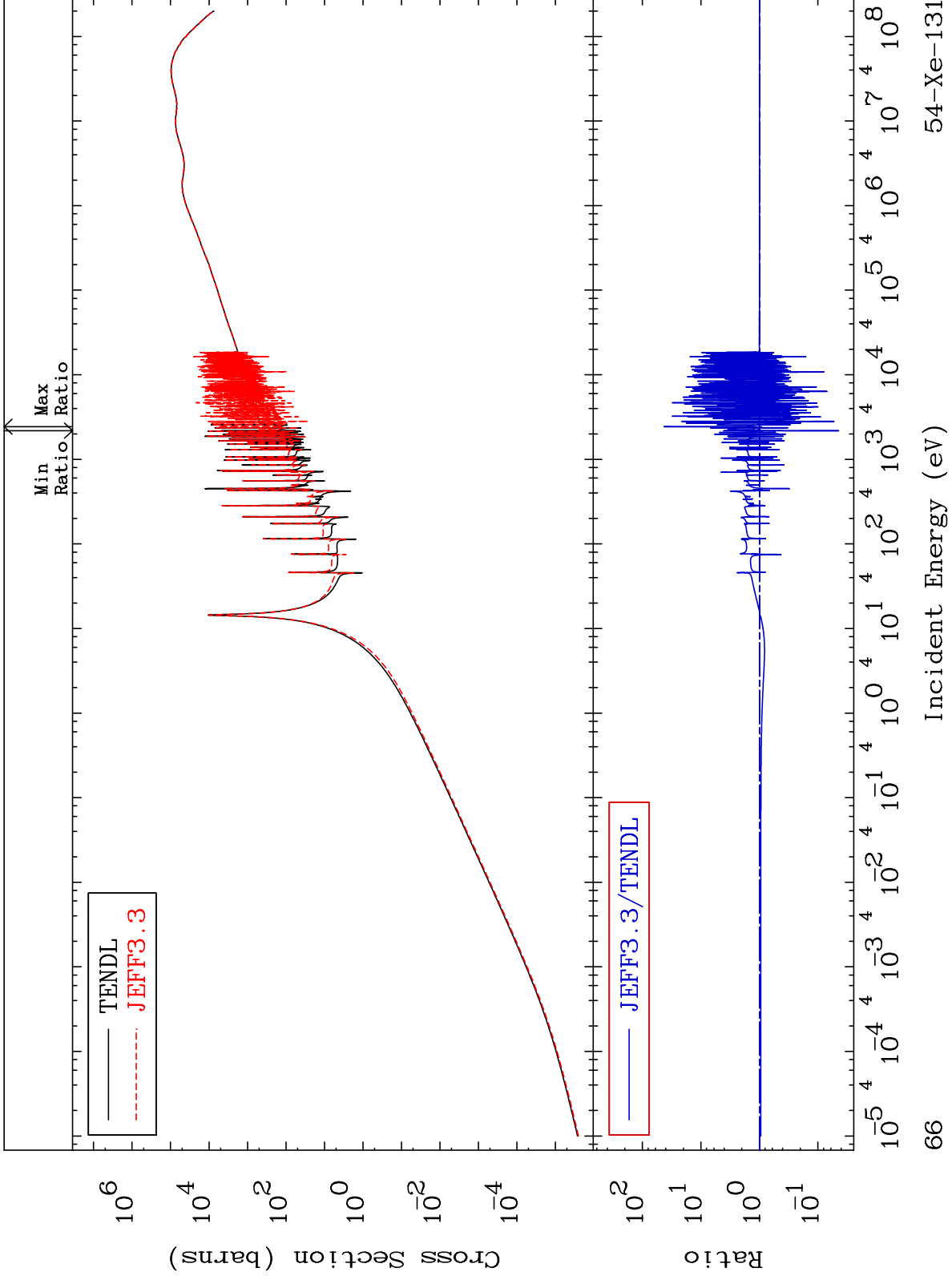
Incident Energy (eV)

54-Xe-131

MAT 5446

Kerma elastic
Cross Section

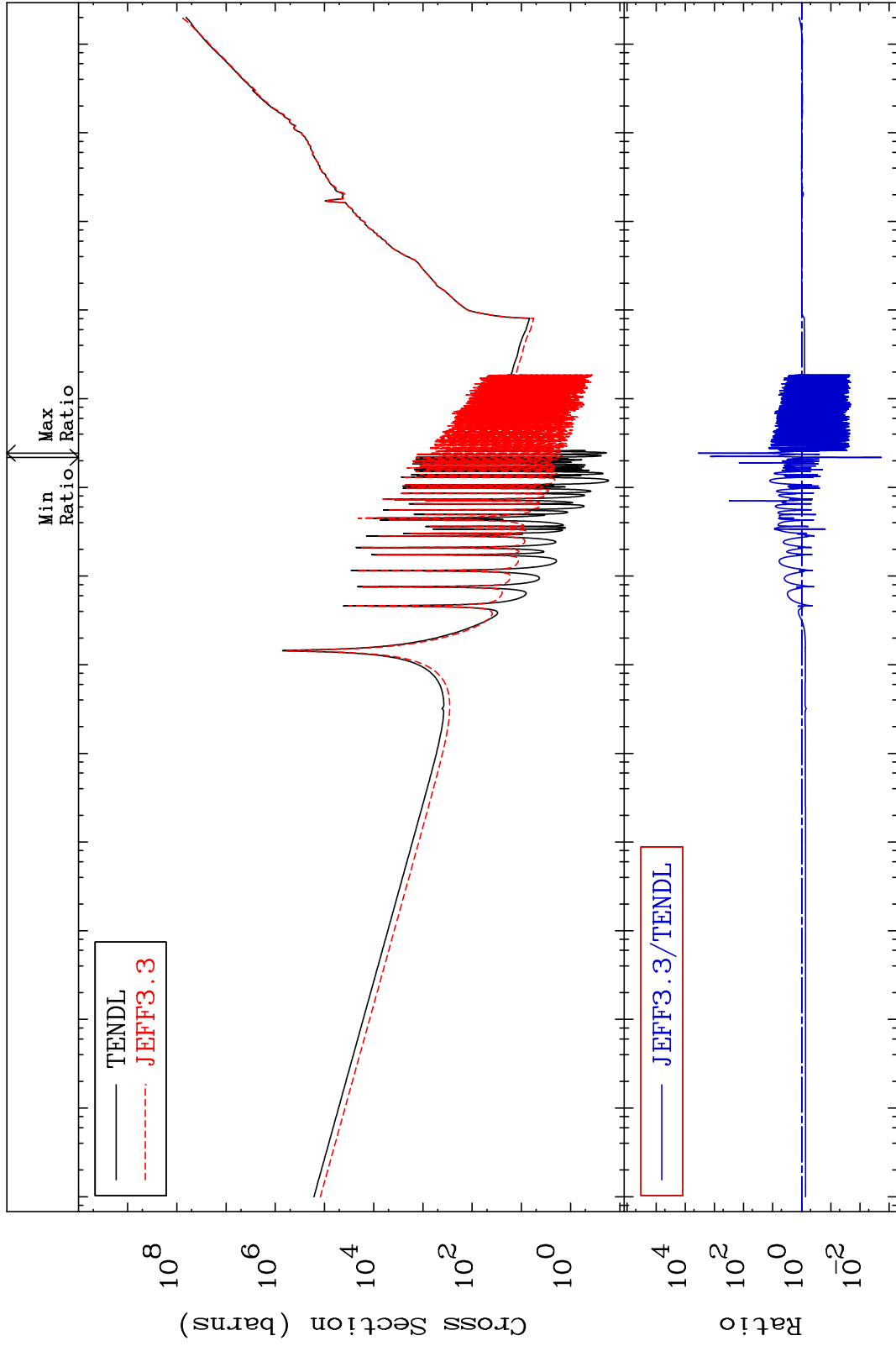
54-Xe-131
-95.62 To 4174. %



MAT 5446

Kerma non-elastic (all but mt2)
Cross Section

54-Xe-131
-99.82 To 9999. %



67

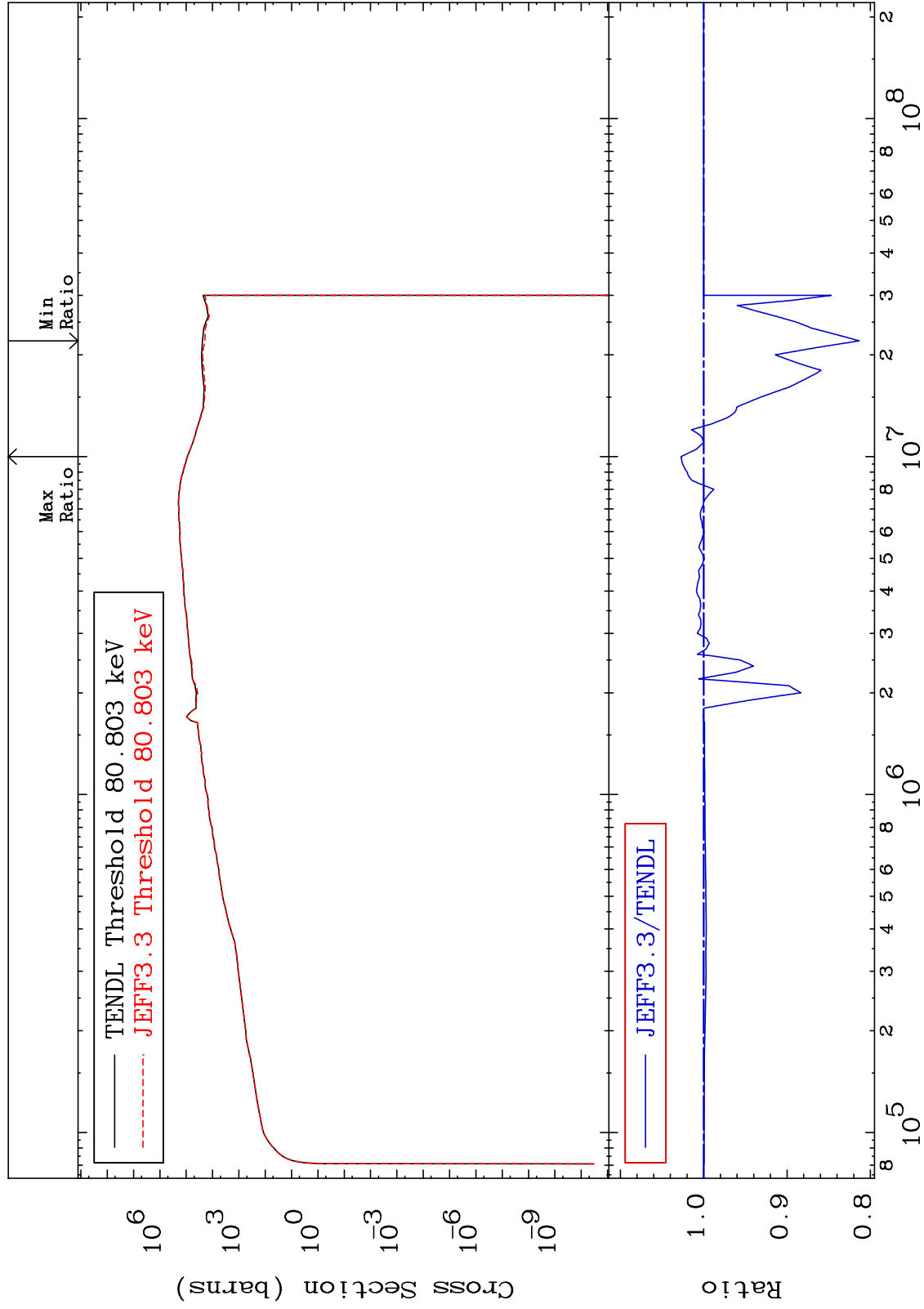
Incident Energy (eV)

54-Xe-131

MAT 5446

Kerma inelastic (mt51-91)
Cross Section

54-Xe-131
-18.66 To 2.723 %



68

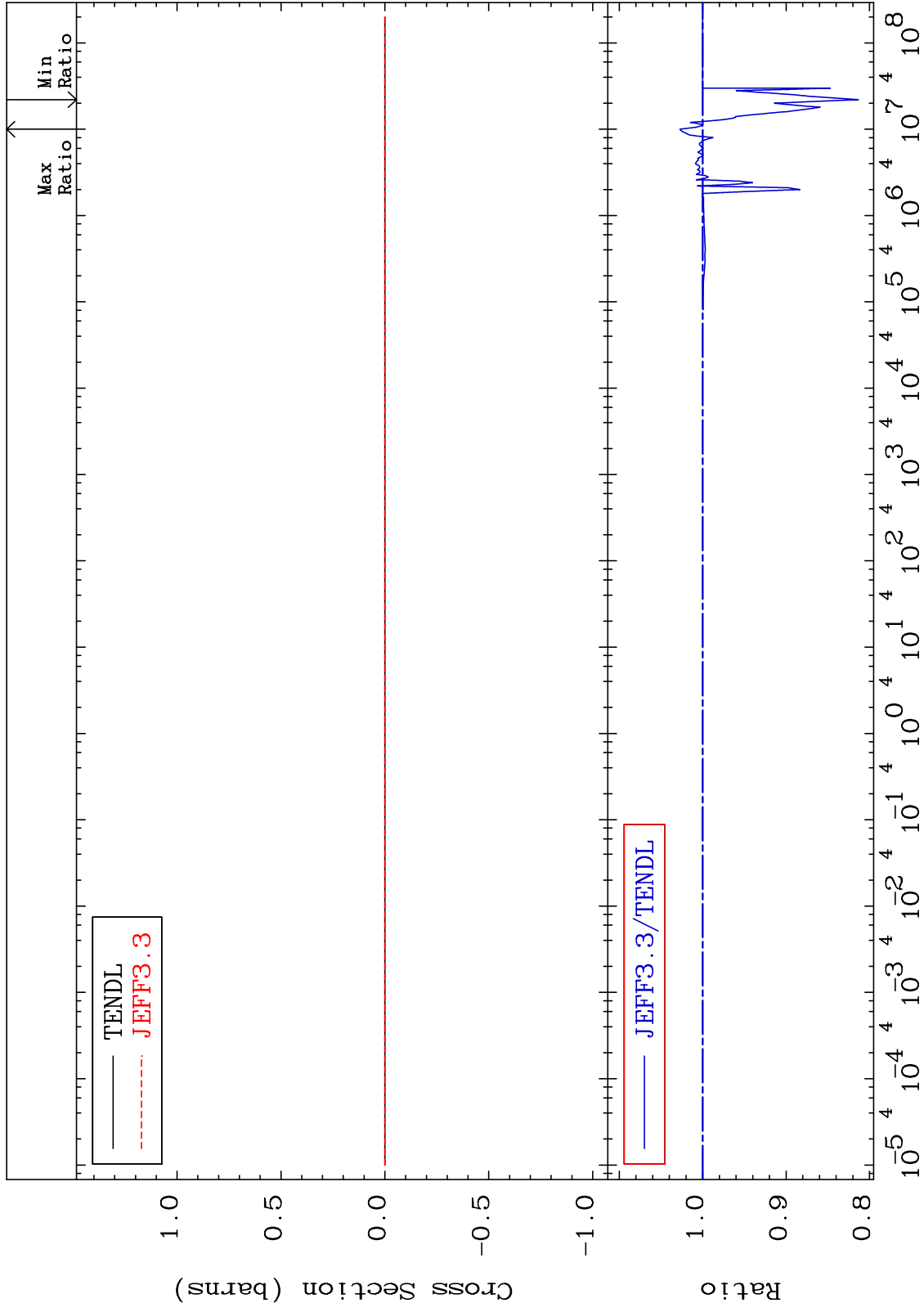
Incident Energy (eV)

54-Xe-131

MAT 5446

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

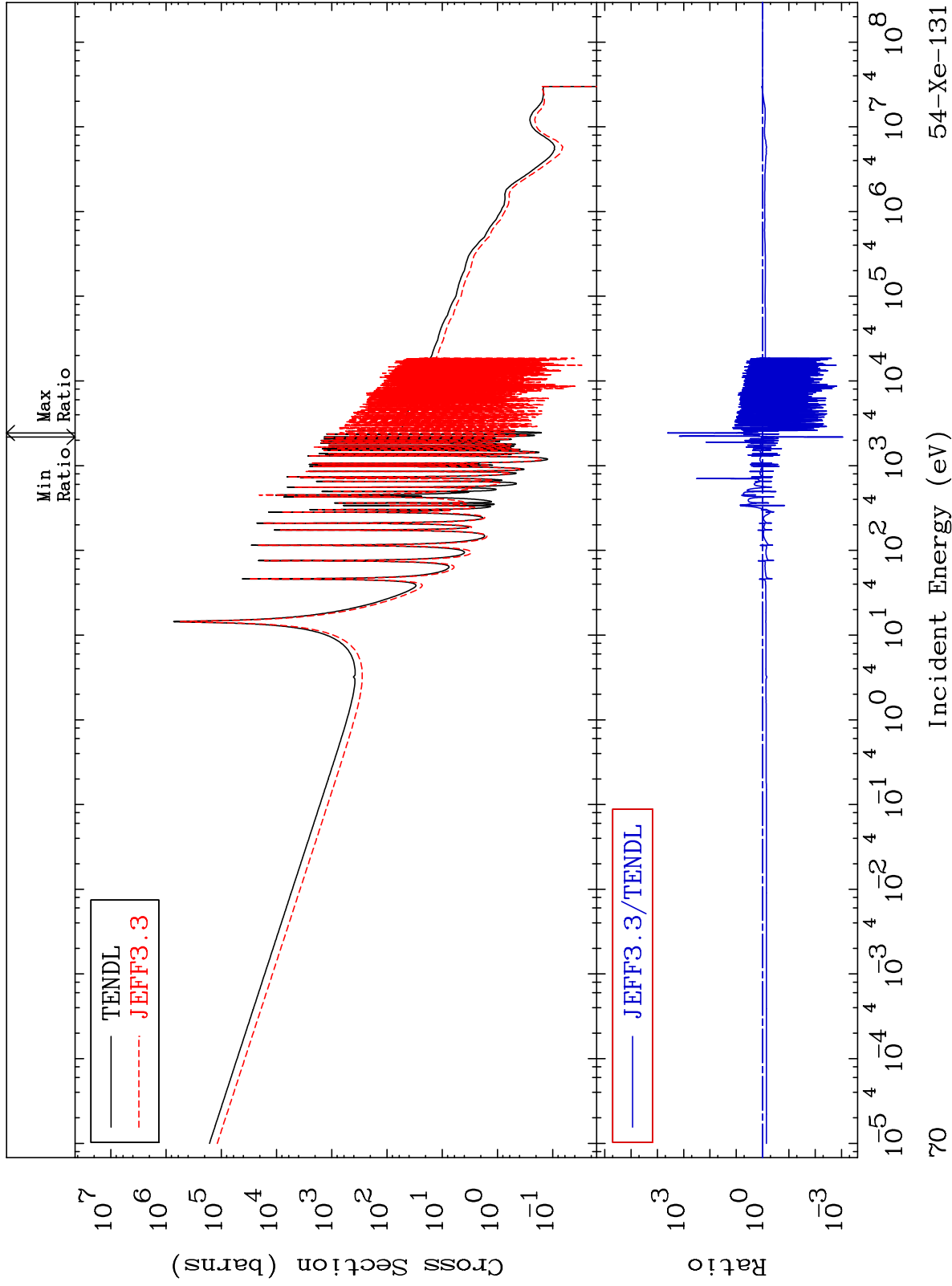
54-Xe-131
-18.66 To 2.723 %



MAT 5446

Kerma capture (mt102)
Cross Section

54-Xe-131
-99.91 To 9999. %



70

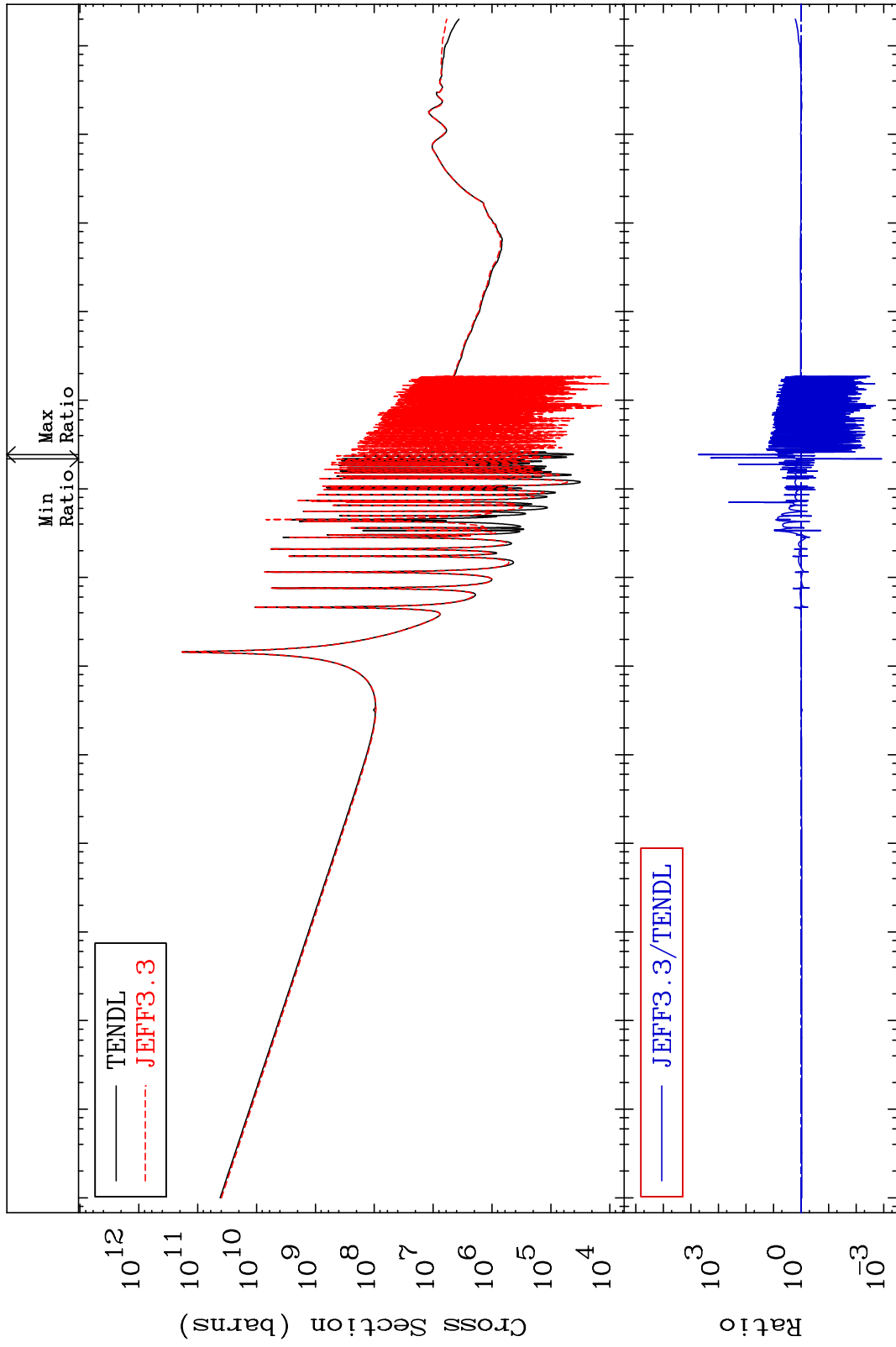
Incident Energy (eV)

54-Xe-131

MAT 5446

Total photon (eV-barns)
Cross Section

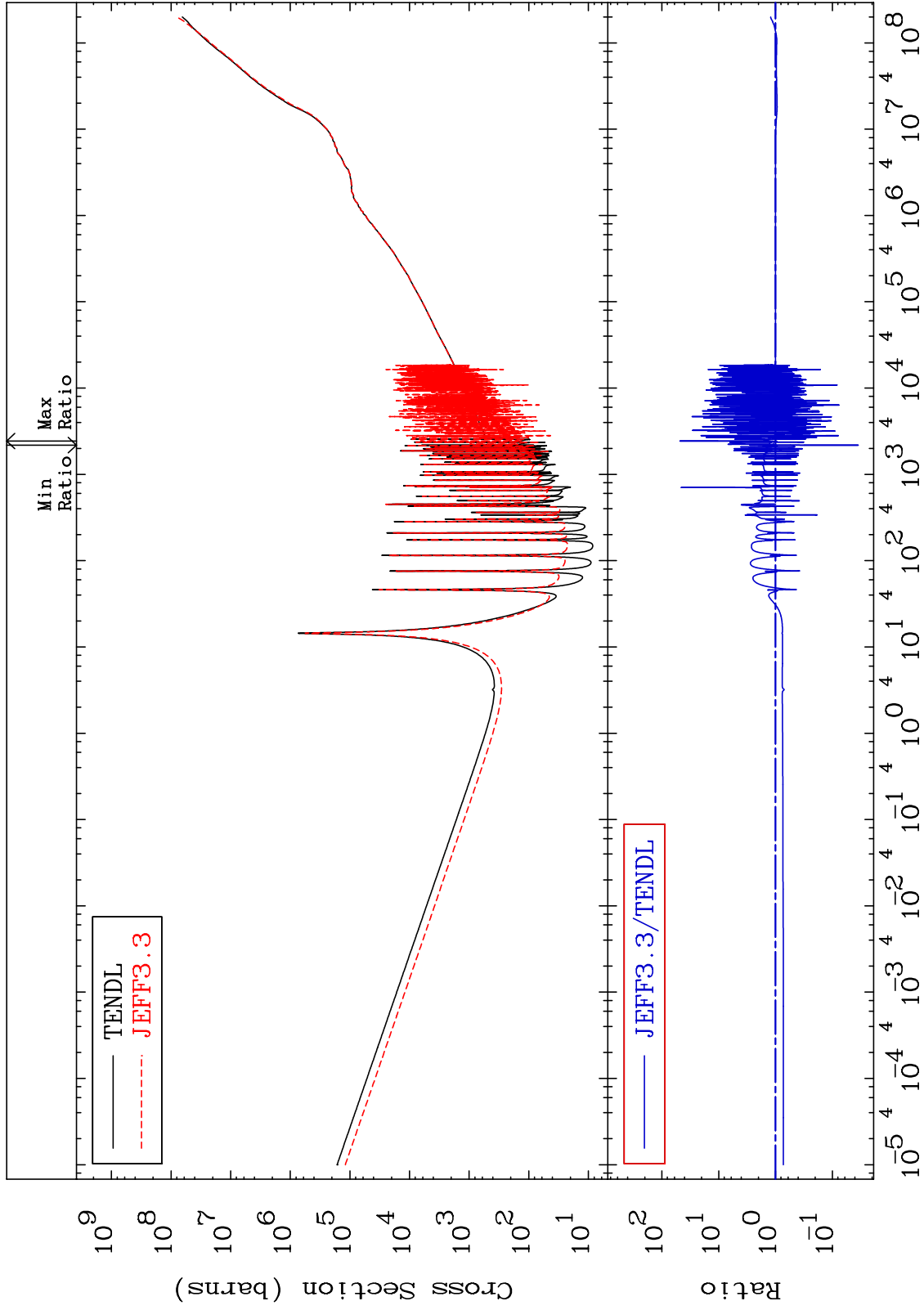
54-Xe-131
-99.88 To 9999. %



MAT 5446

Total kinematic kerma (high limit)
Cross Section

54-Xe-131
-96.53 To 4690. %



72

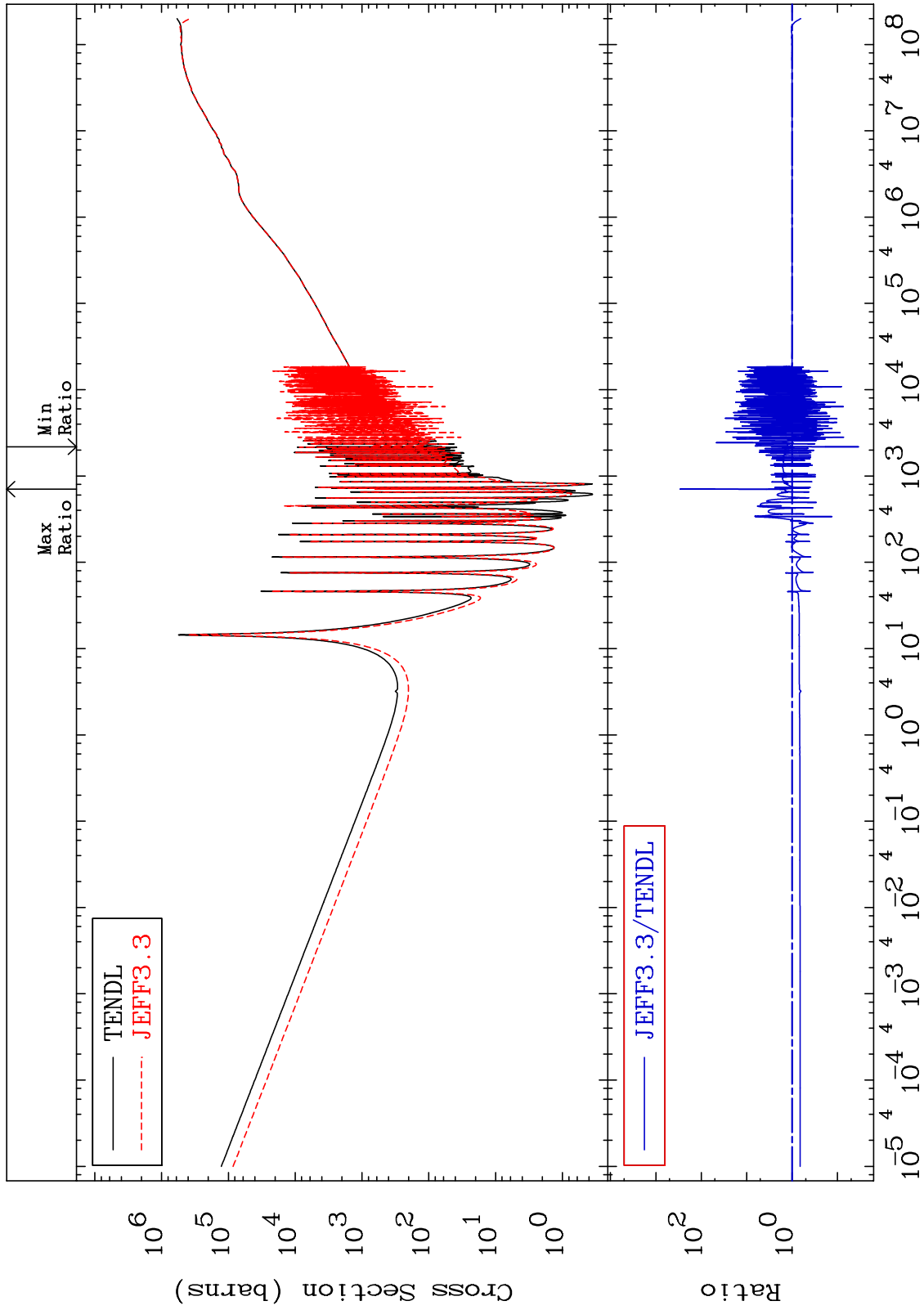
Incident Energy (eV)

54-Xe-131

MAT 5446

Dpa total (eV-barns)
Cross Section

54-Xe-131
-96.55 To 9999. %



73

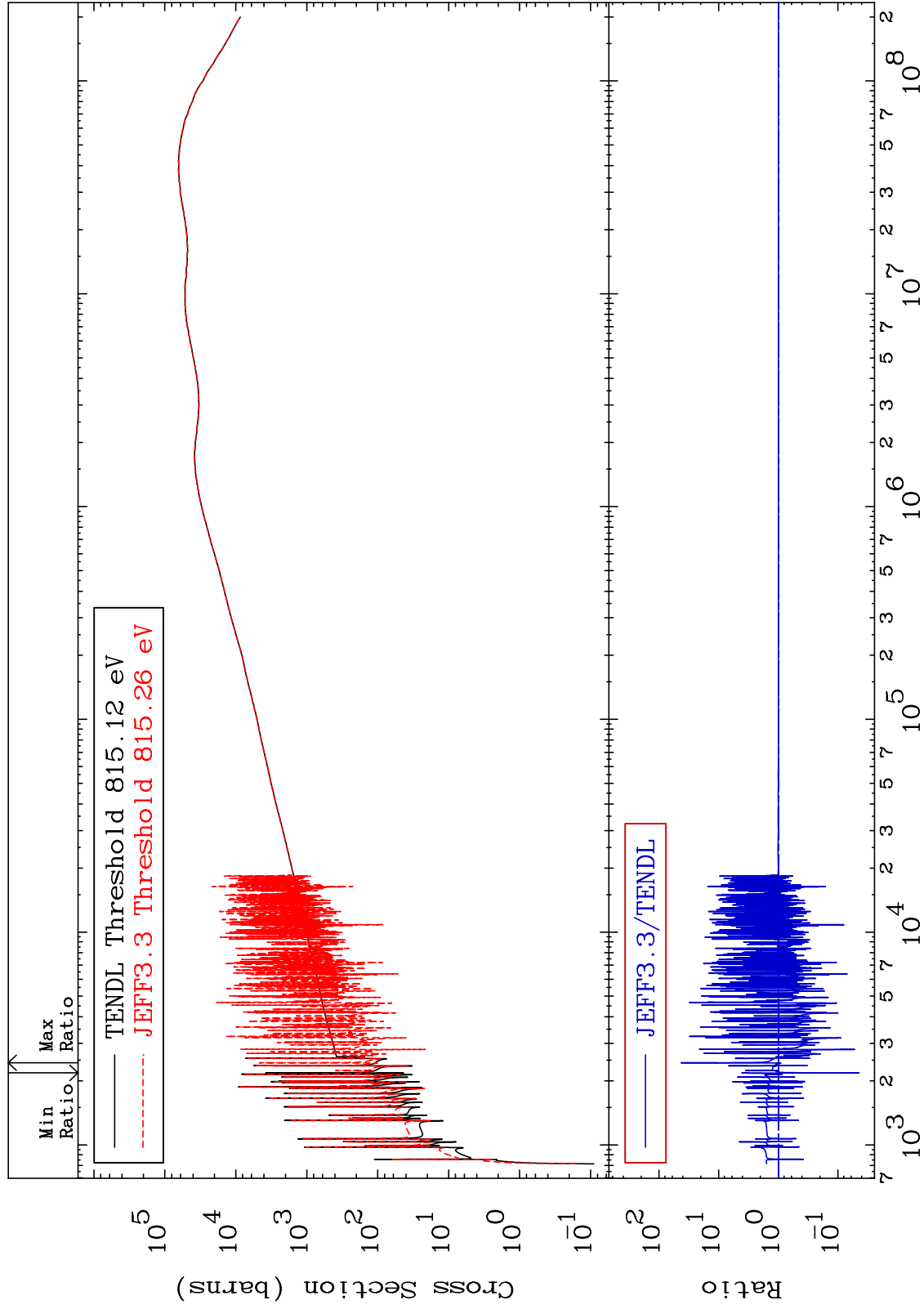
Incident Energy (eV)

54-Xe-131

MAT 5446

Dpa elastic (mt2)
Cross Section

54-Xe-131
-95.62 To 4174. %



74

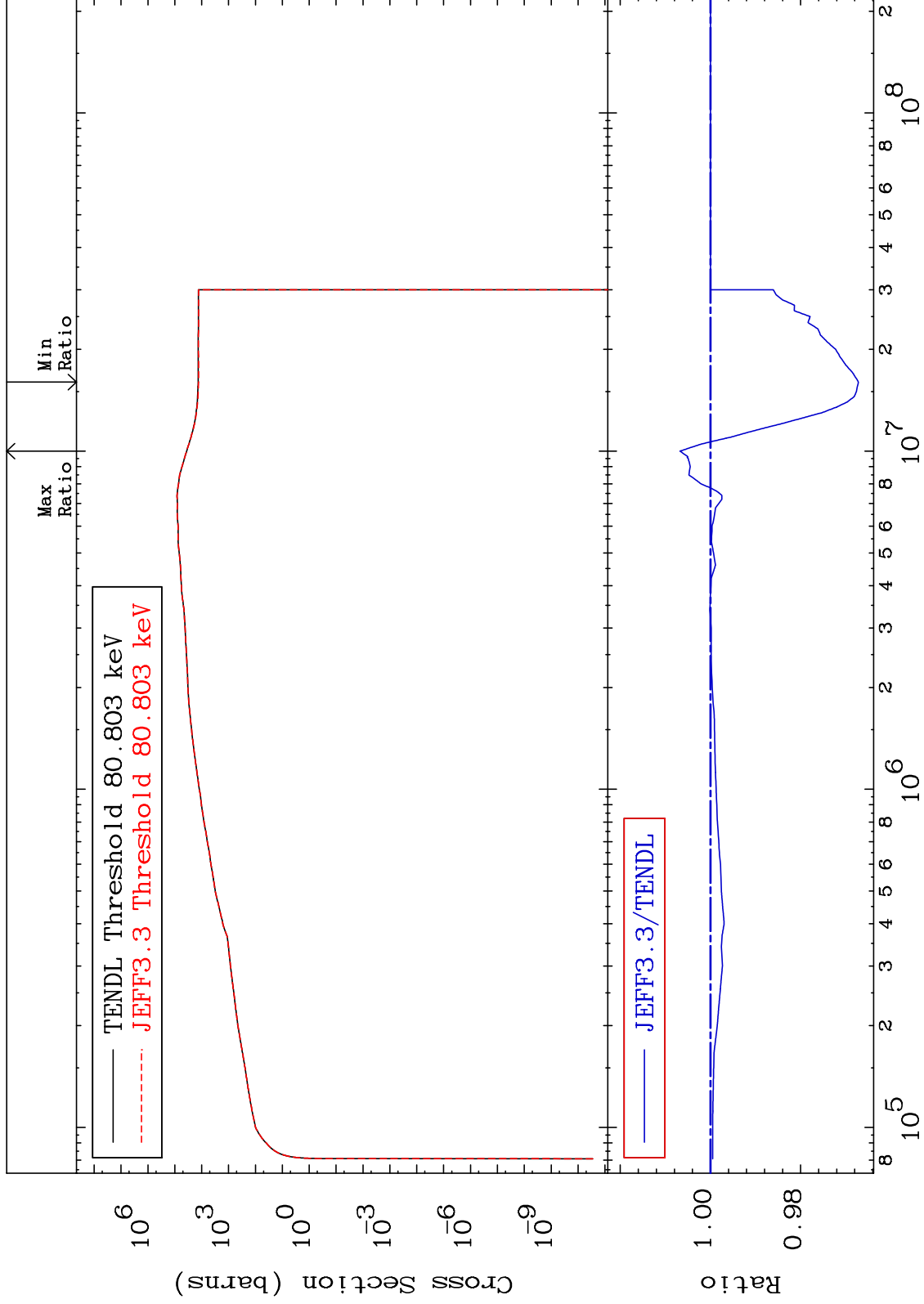
Incident Energy (eV)

54-Xe-131

MAT 5446

Dpa inelastic (mt51-91)
Cross Section

54-Xe-131
-3.281 To 0.675 %



75

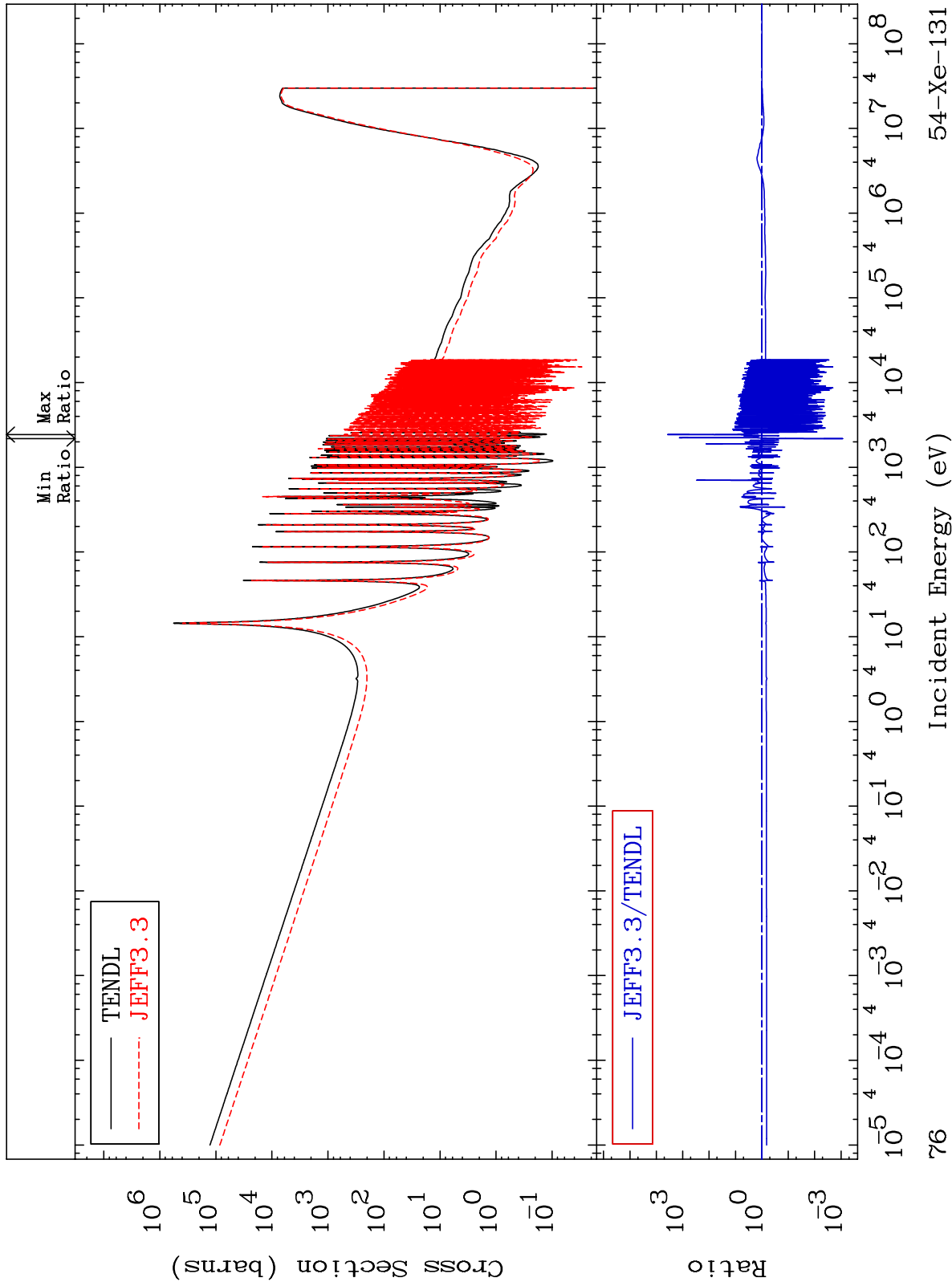
Incident Energy (eV)

54-Xe-131

MAT 5446

Dpa disappearance (mt102 -120)
Cross Section

54-Xe-131
-99.91 To 9999. %



76

Incident Energy (eV)

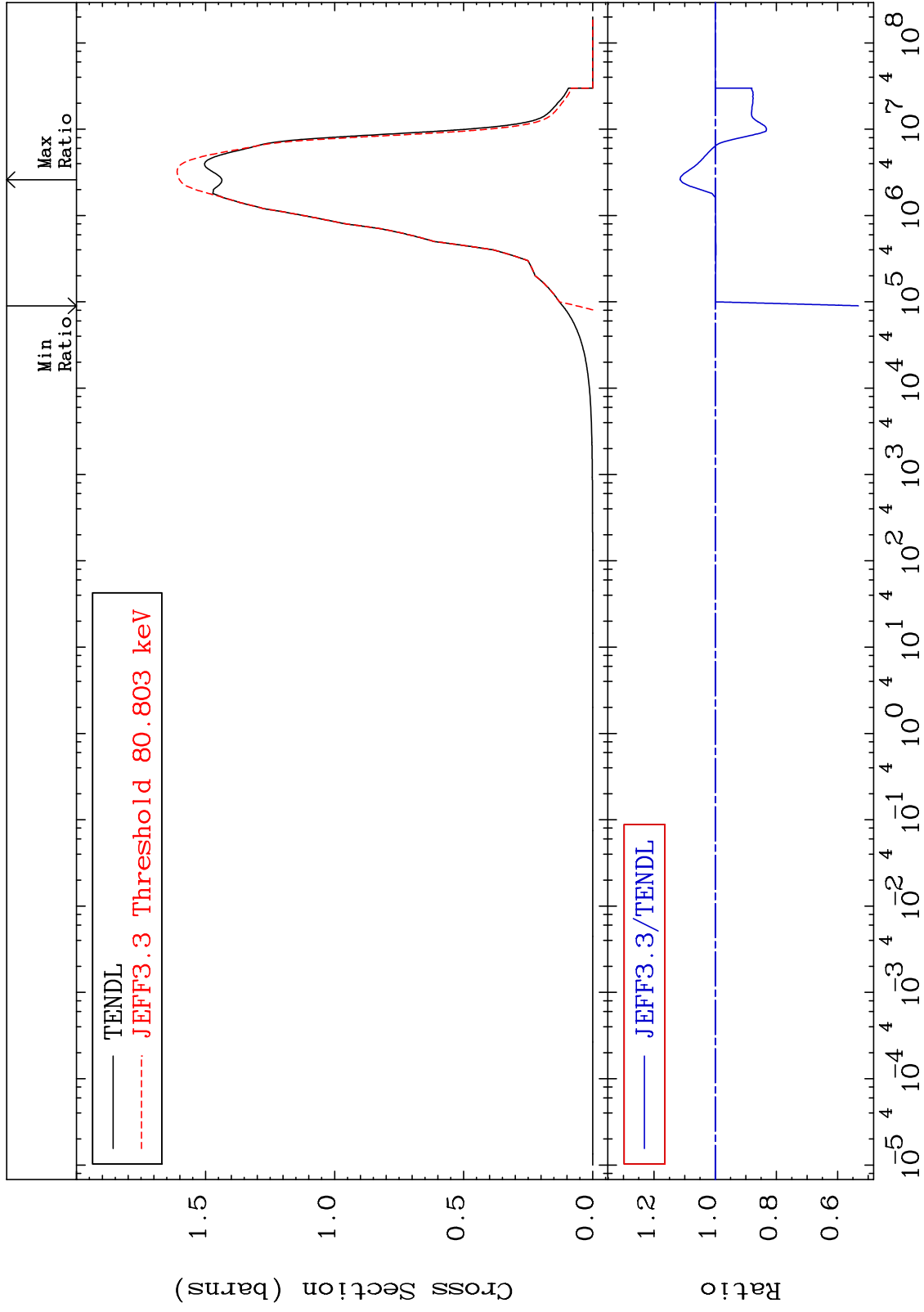
54-Xe-131

MAT 5446

Inelastic:54-Xe-131g

54-Xe-131

Radionuclide Production Cross Section -46.79 To 11.52 %



77

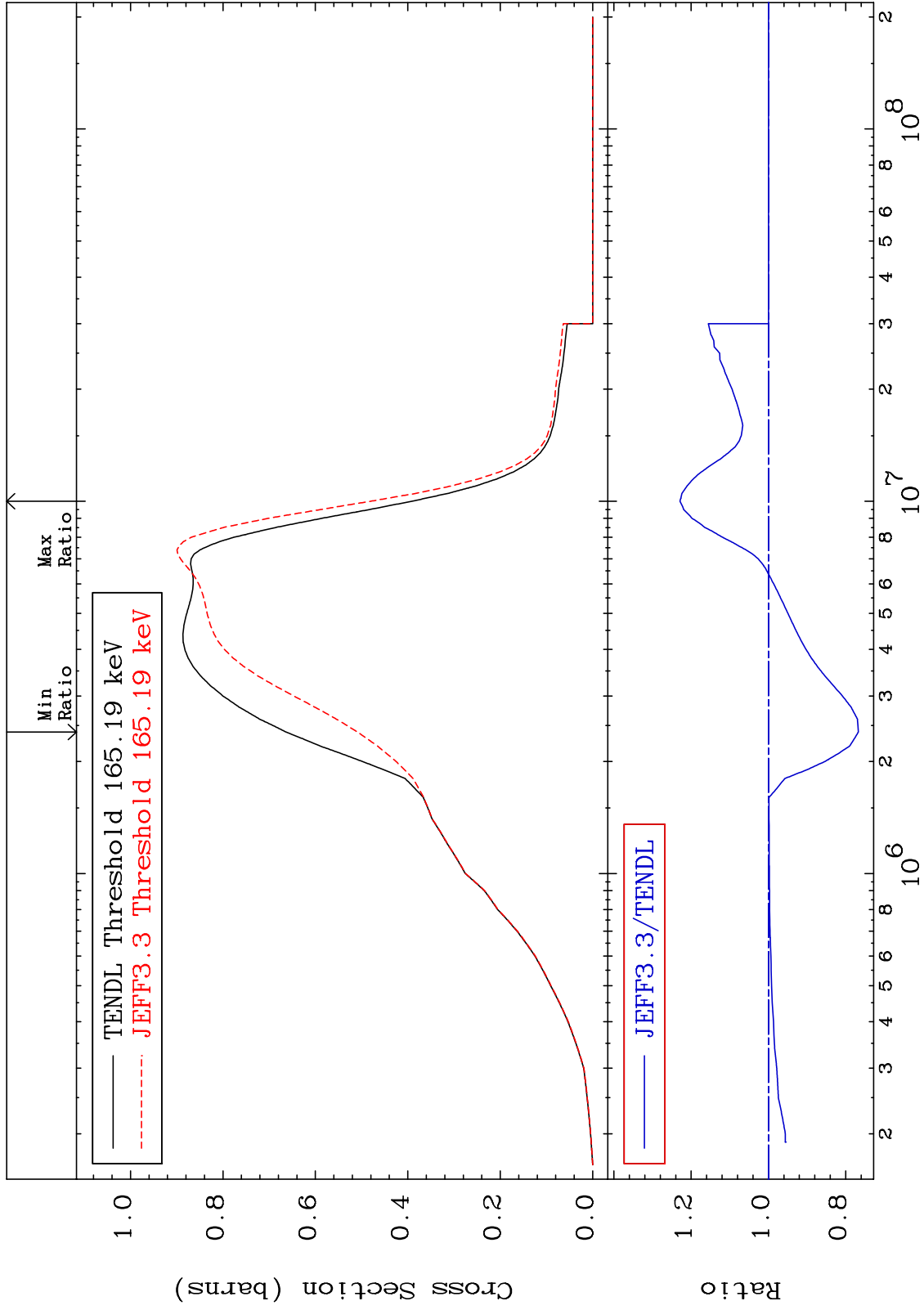
Incident Energy (eV)

54-Xe-131

MAT 5446

Inelastic:54-Xe-131m2
Radionuclide Production Cross Section -23.29 To 22.89 %

54-Xe-131



78

Incident Energy (eV)

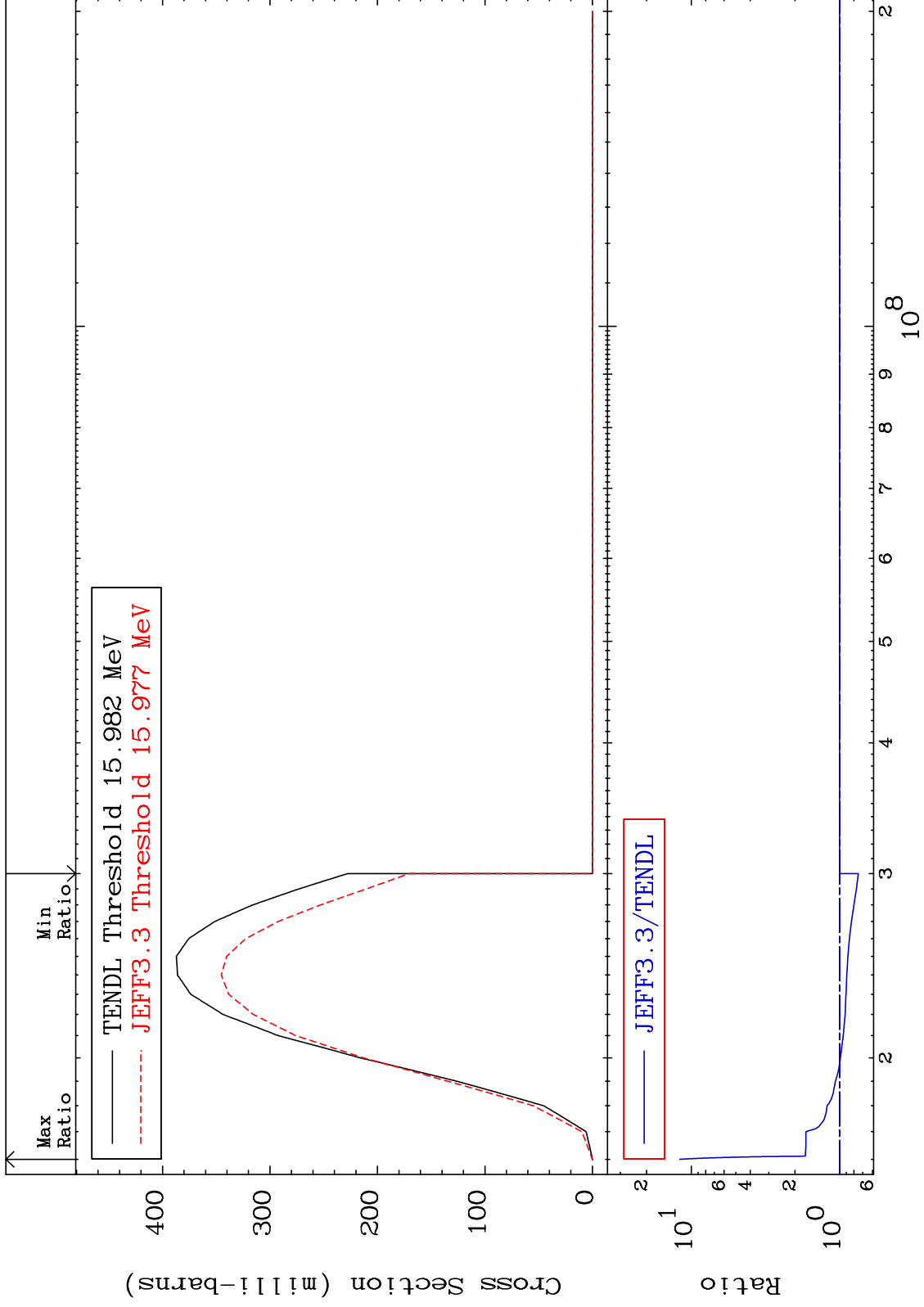
54-Xe-131

MAT 5446

(n,3n):54-Xe-129g

54-Xe-131

Radionuclide Production Cross Section -25.26 To 1094. %

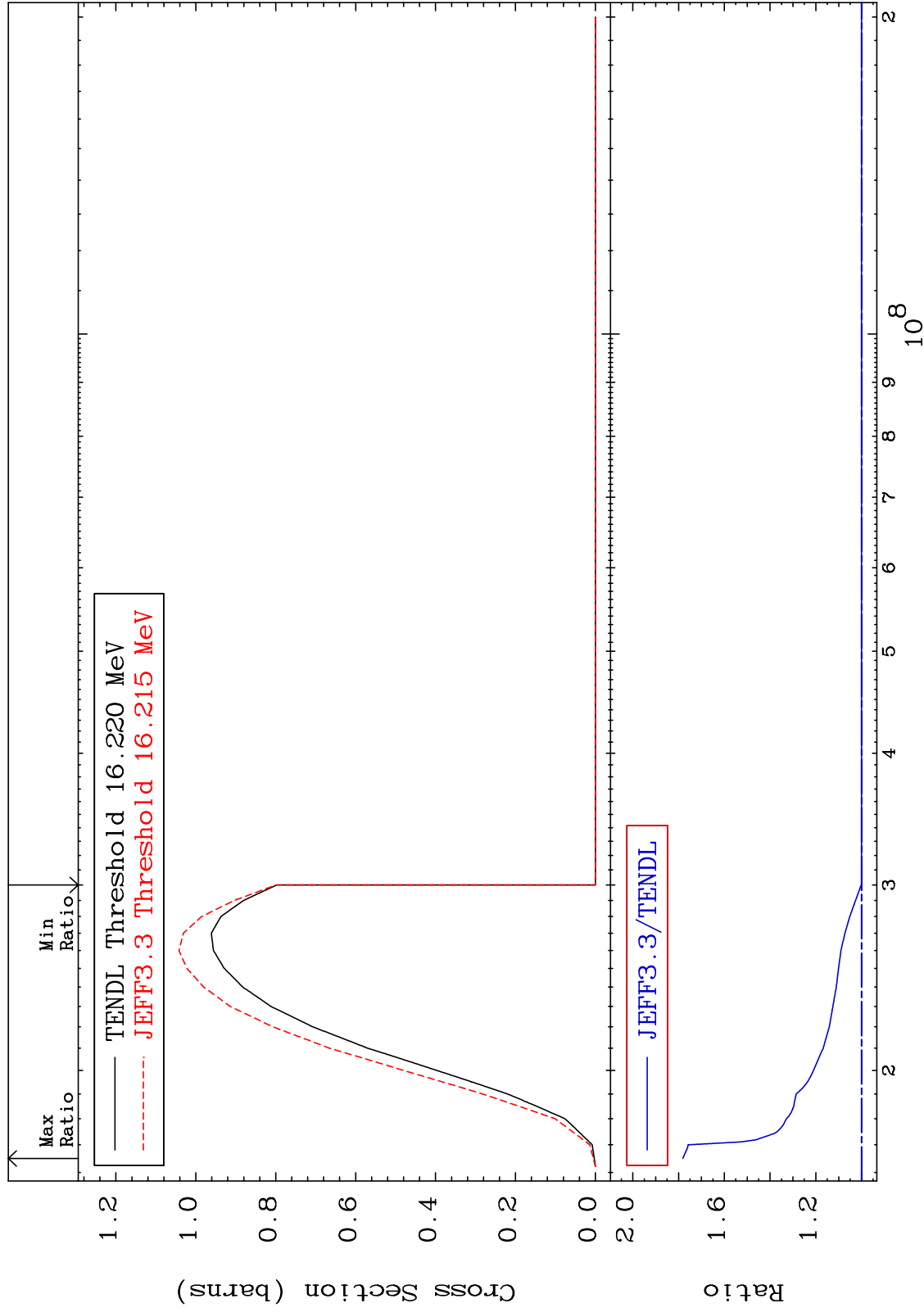


MAT 5446

(n,3n):54-Xe-129m2

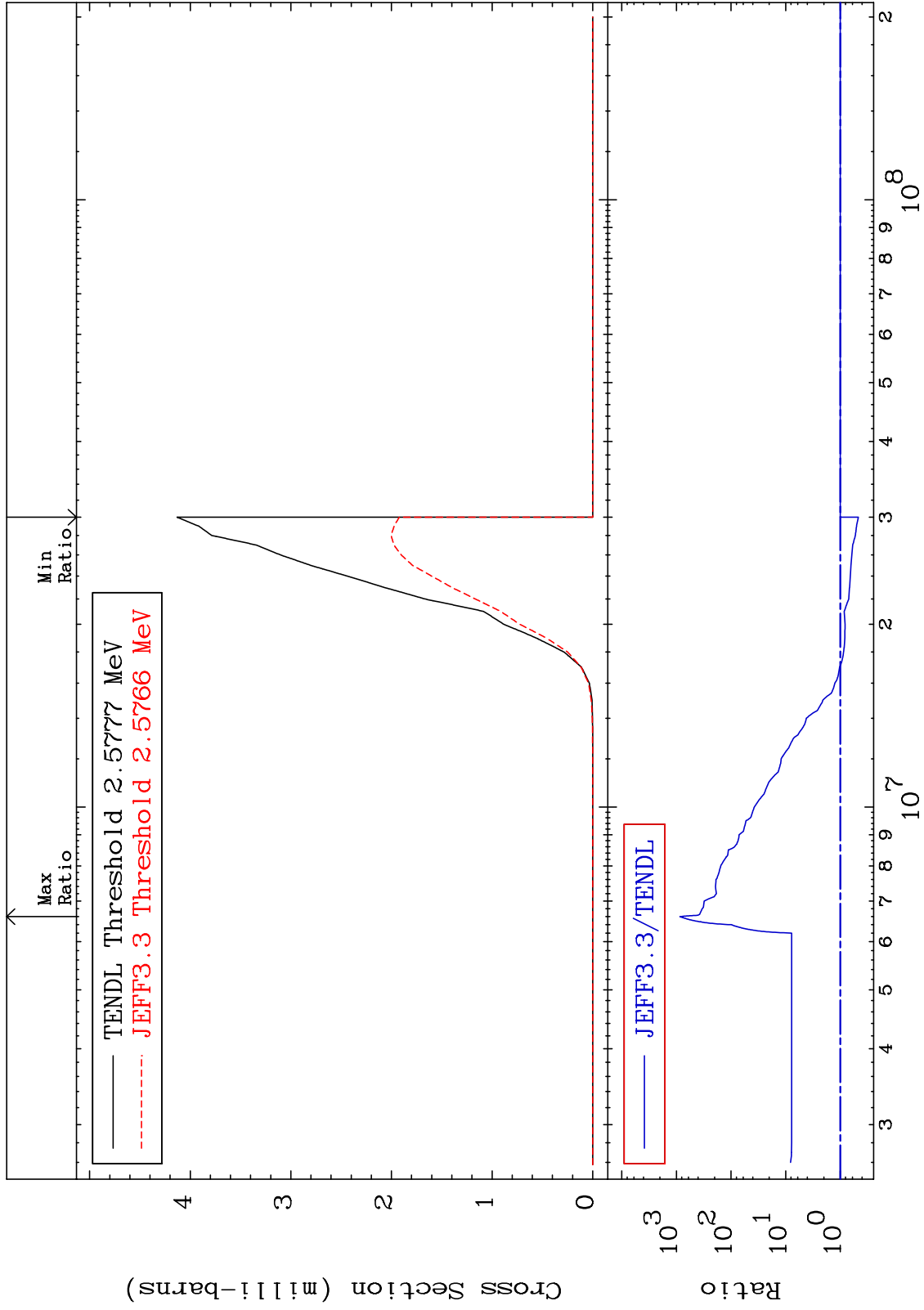
54-Xe-131

Radionuclide Production Cross Section 0.000 To 78.12 %



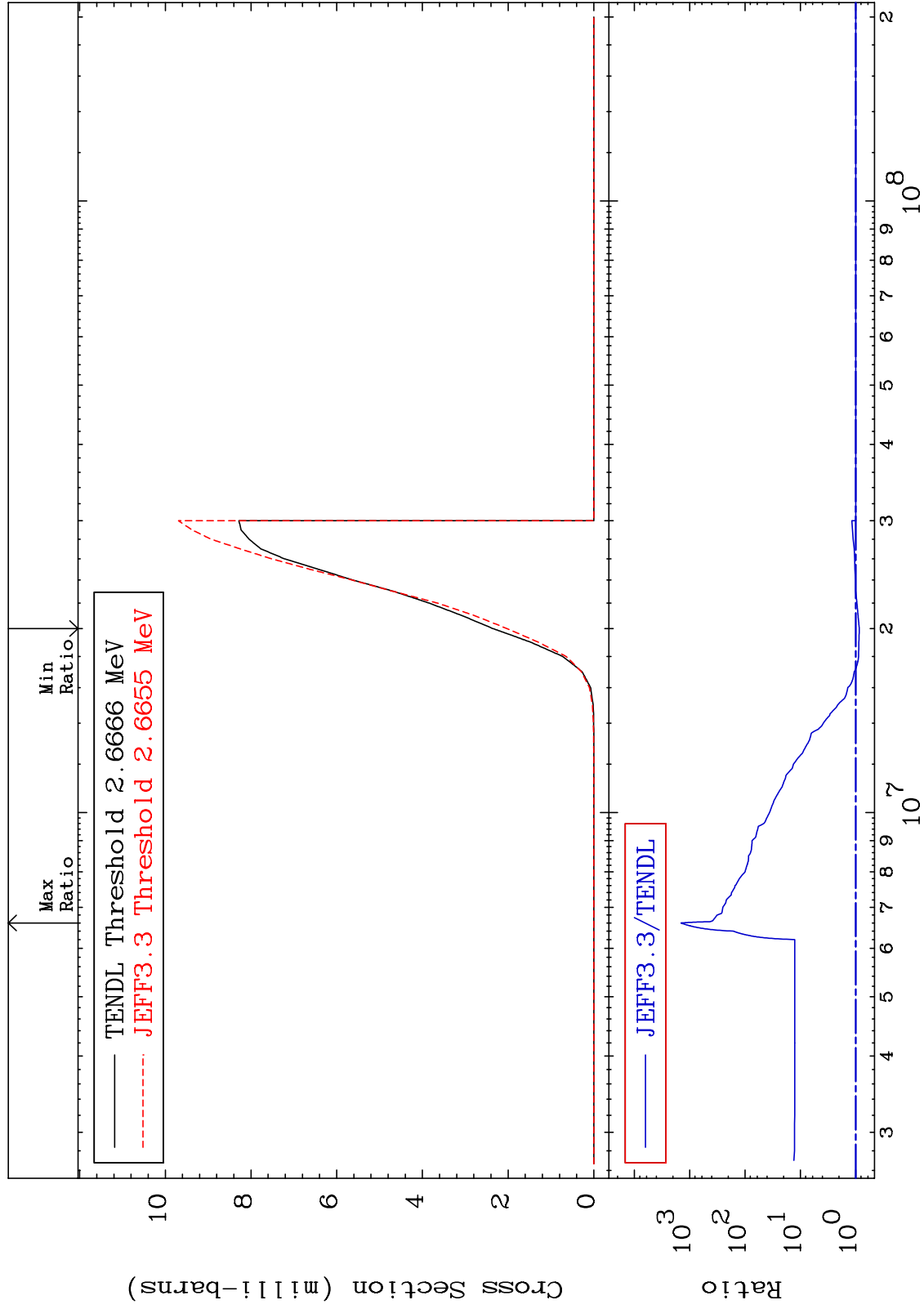
MAT 5446

(n, n') α :52-Te-127g 54-Xe-131
Radionuclide Production Cross Section -53.44 To 9999. %



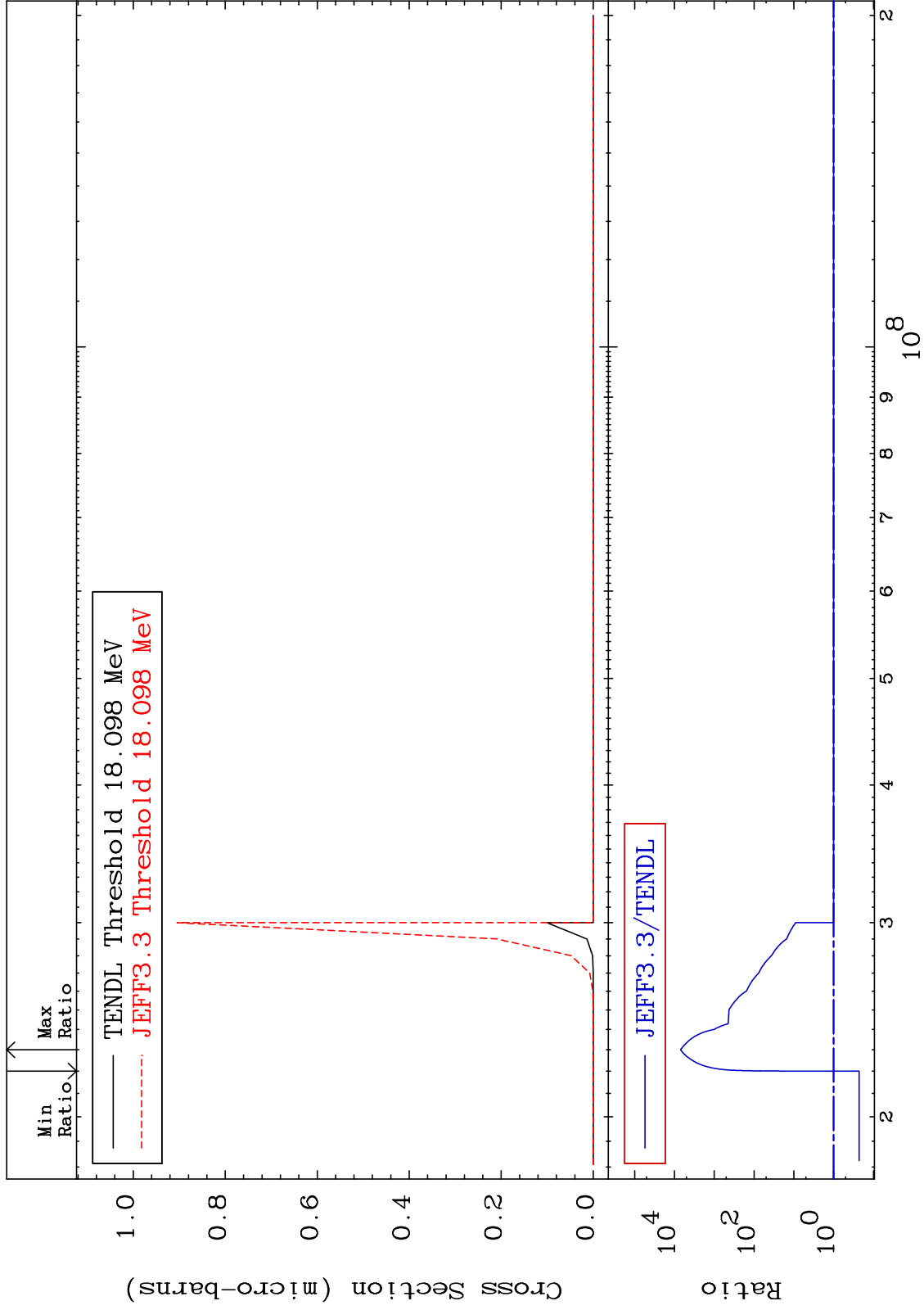
MAT 5446

(n, n') α :52-Te-127m2 54-Xe-131
Radionuclide Production Cross Section -13.96 To 9999. %



MAT 5446

(n,3n) α :52-Te-125g 54-Xe-131
Radionuclide Production Cross Section -77.10 To 9999. %

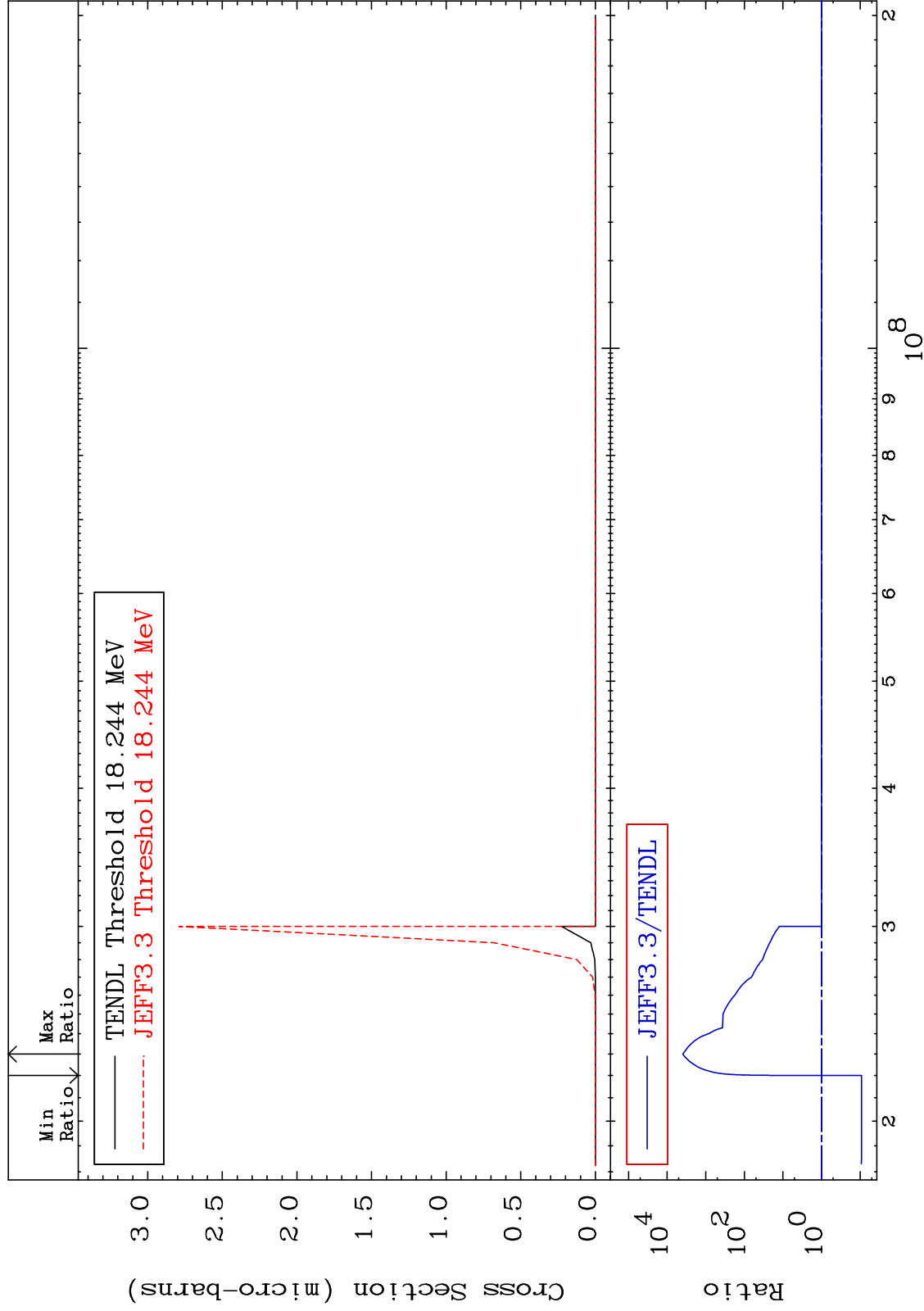


MAT 5446

(n,3n) α :52-Te-125m2

54-Xe-131

Radionuclide Production Cross Section -90.82 To 9999. %

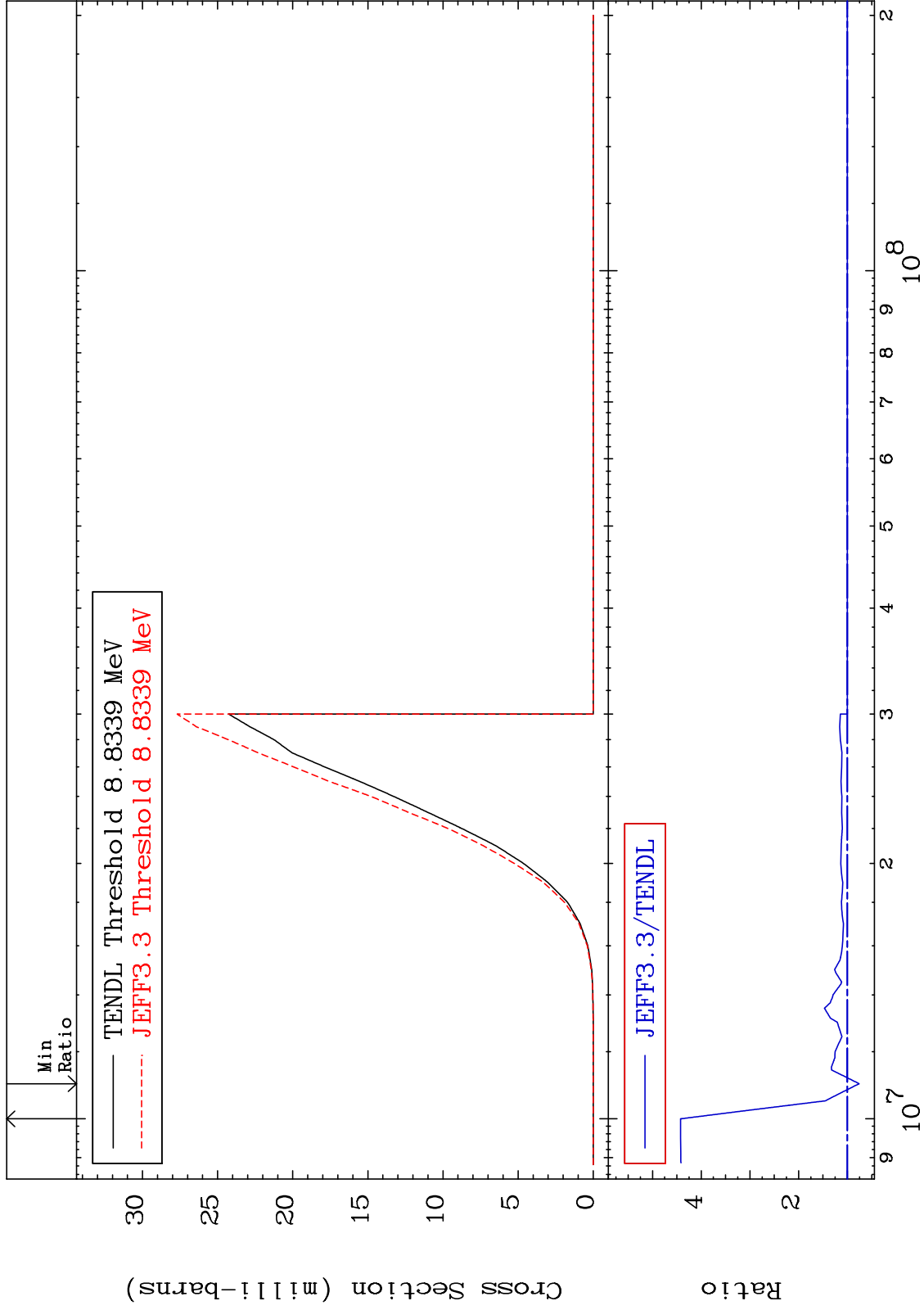


MAT 5446

(n, n') p:53-I -130g

54-Xe-131

Radionuclide Production Cross Section -24.32 To 342.3 %



85

Incident Energy (eV)

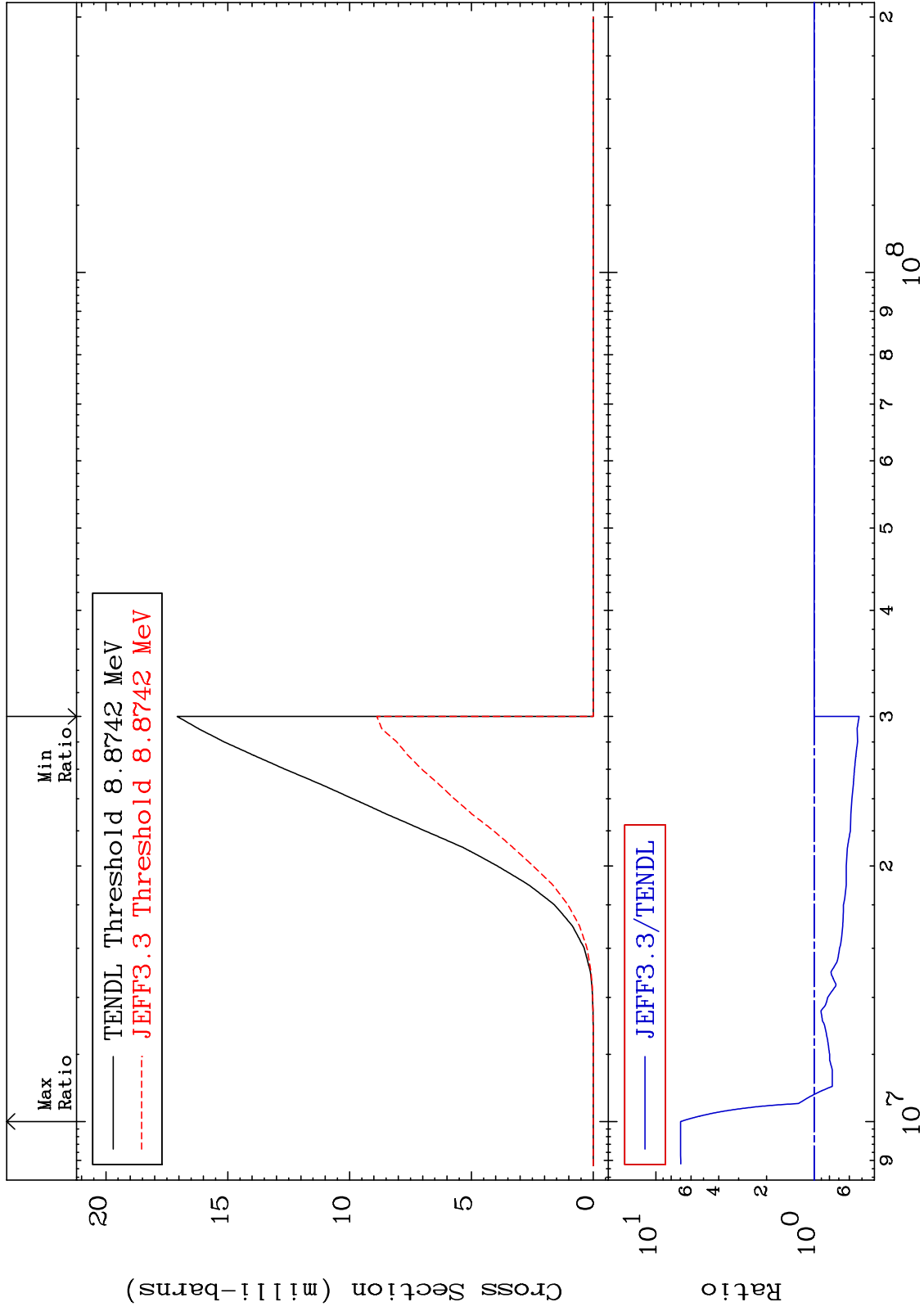
54-Xe-131

MAT 5446

(n, n') p:53-I -130m1

54-Xe-131

Radionuclide Production Cross Section -48.00 To 597.1 %



86

Incident Energy (eV)

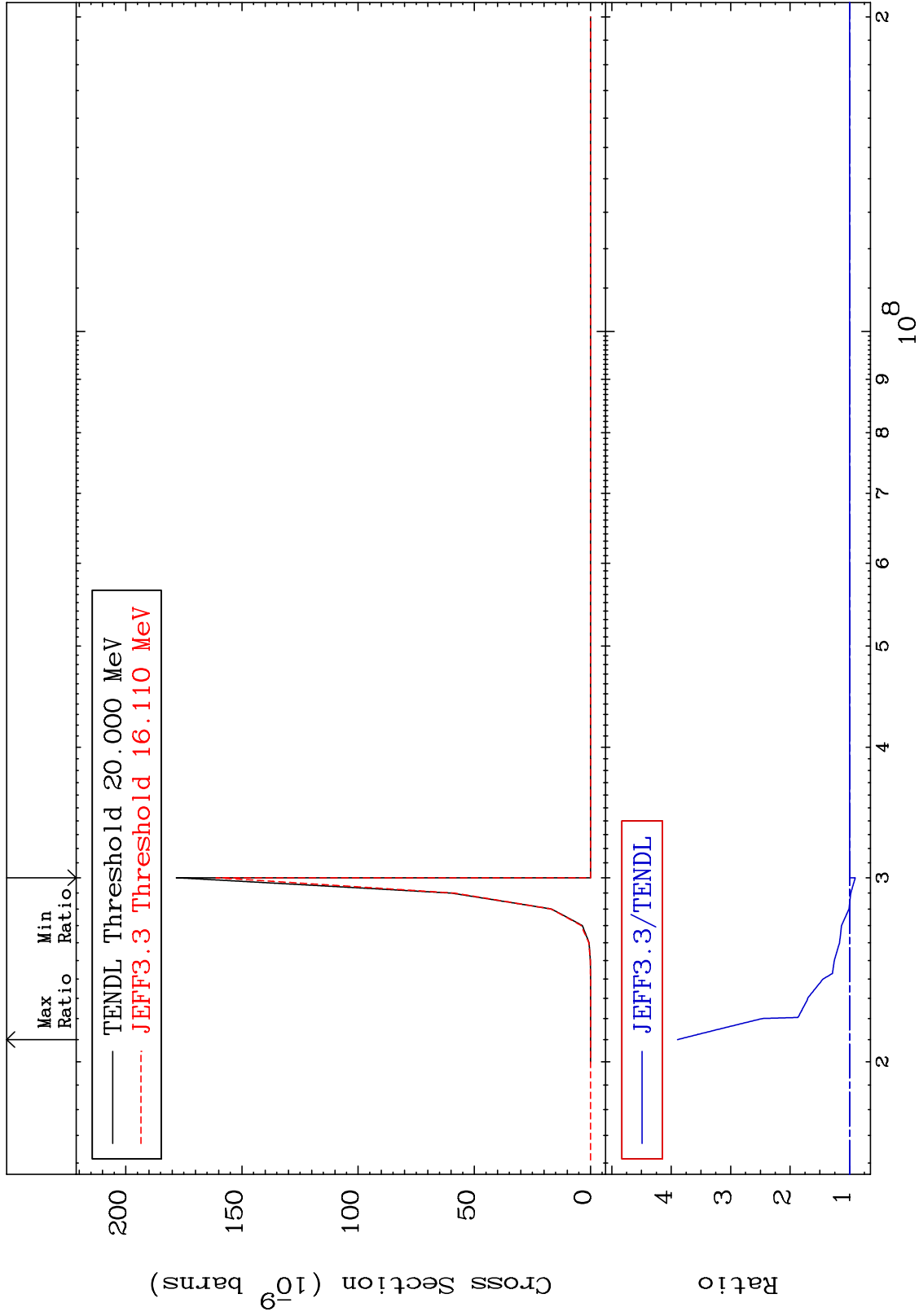
54-Xe-131

MAT 5446

54-Xe-131

(n,2n) p:52-Te-129g

Radionuclide Production Cross Section -9.604 To 289.3 %

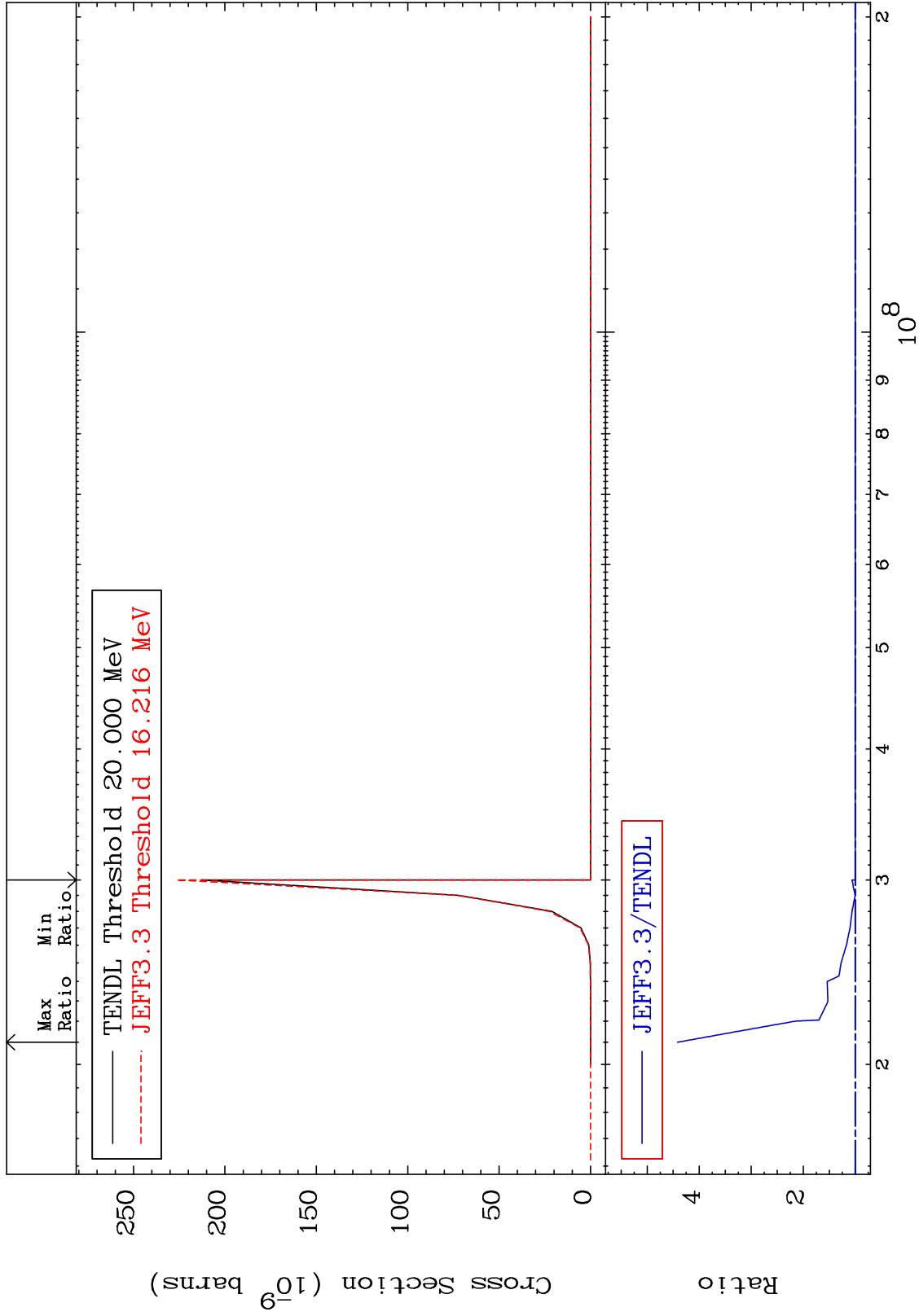


MAT 5446

(n,2n) p:52-Te-129m1

54-Xe-131

Radionuclide Production Cross Section 0.000 To 341.7 %

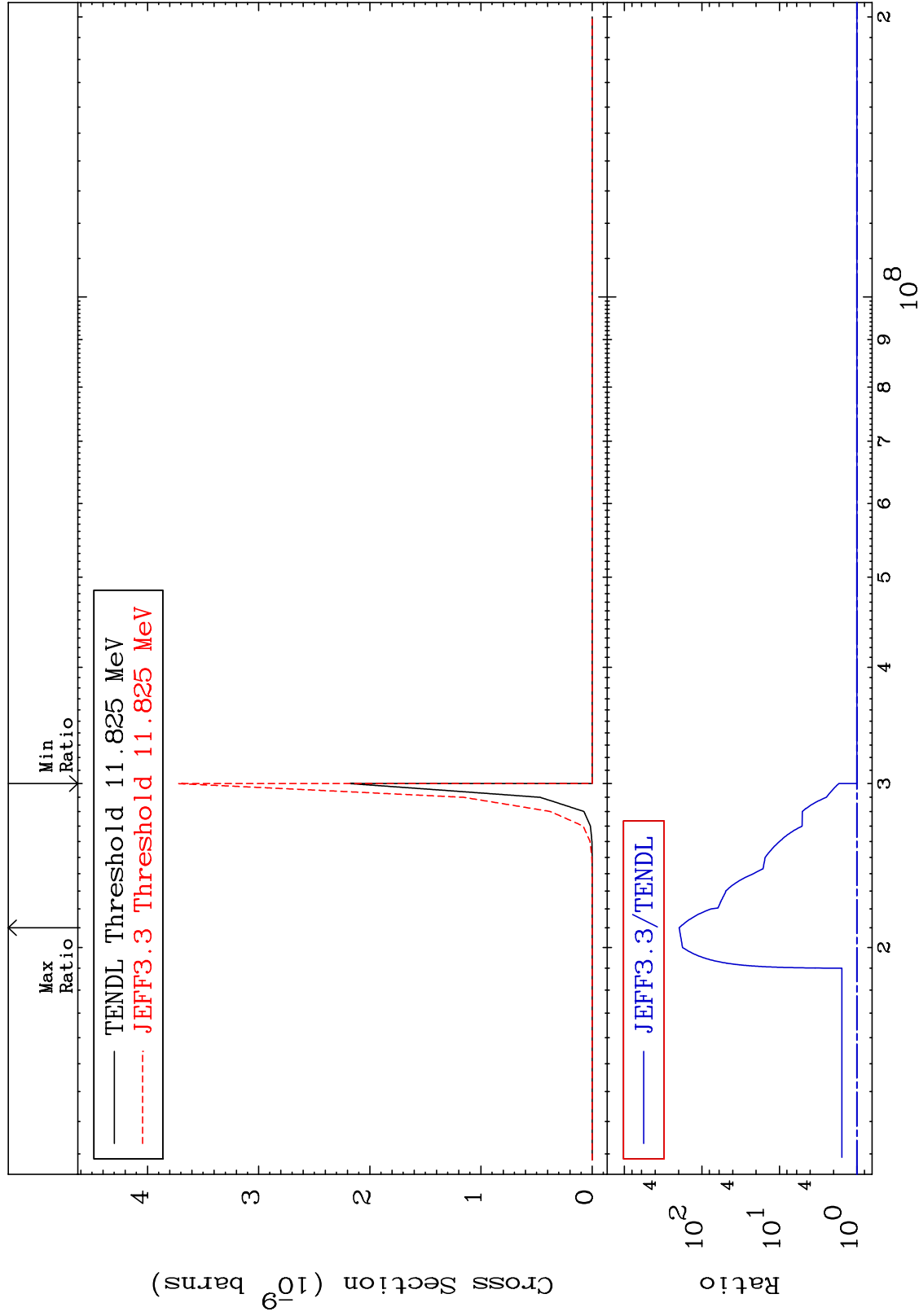


MAT 5446

(n, n') p α :51-Sb-126g

54-Xe-131

Radionuclide Production Cross Section 0.000 To 9999. %

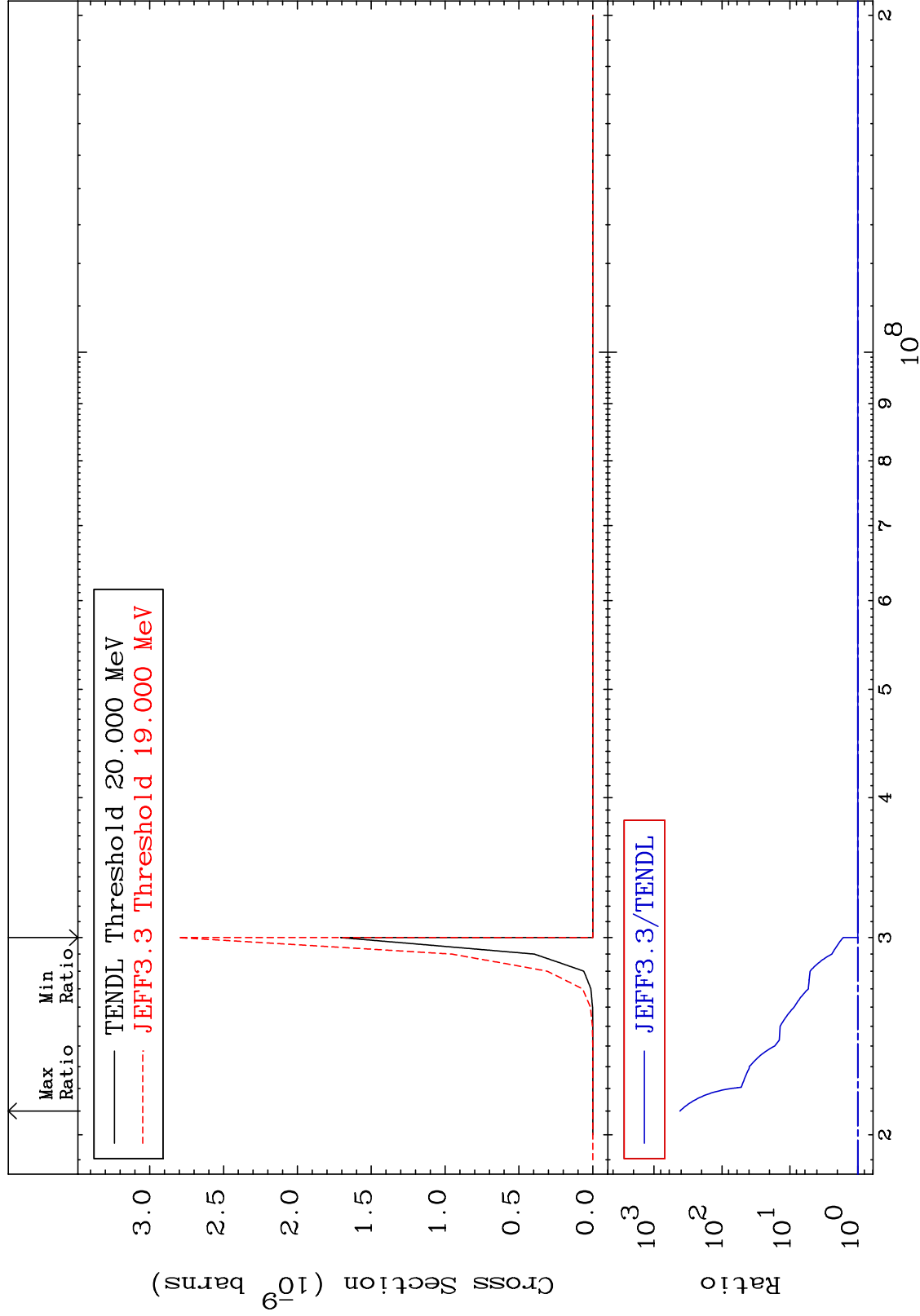


MAT 5446

(n, n') p α :51-Sb-126m1

54-Xe-131

Radionuclide Production Cross Section 0.000 To 9999. %



90

Incident Energy (eV)

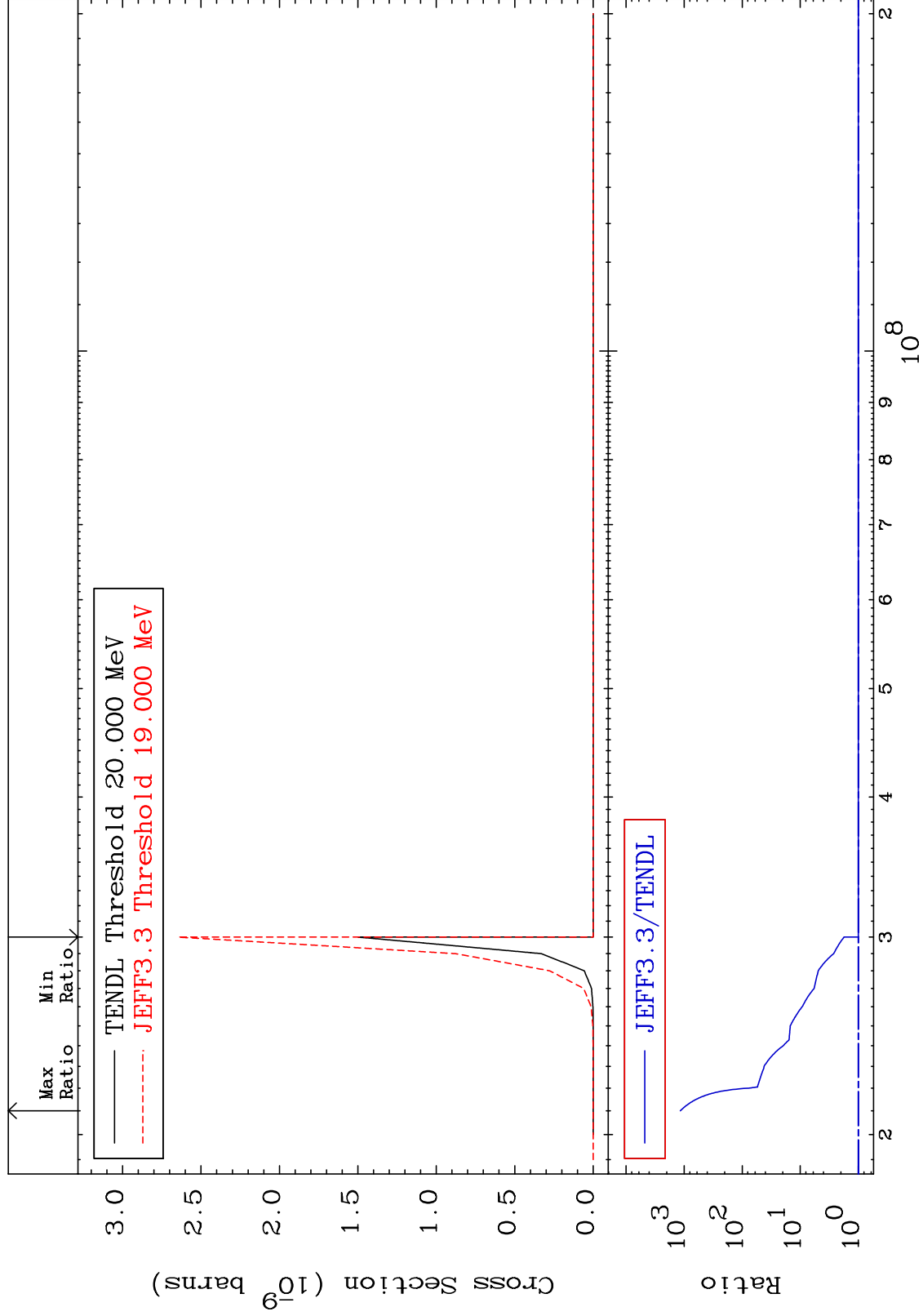
54-Xe-131

MAT 5446

(n, n') p α :51-Sb-126m2

54-Xe-131

Radionuclide Production Cross Section 0.000 To 9999. %

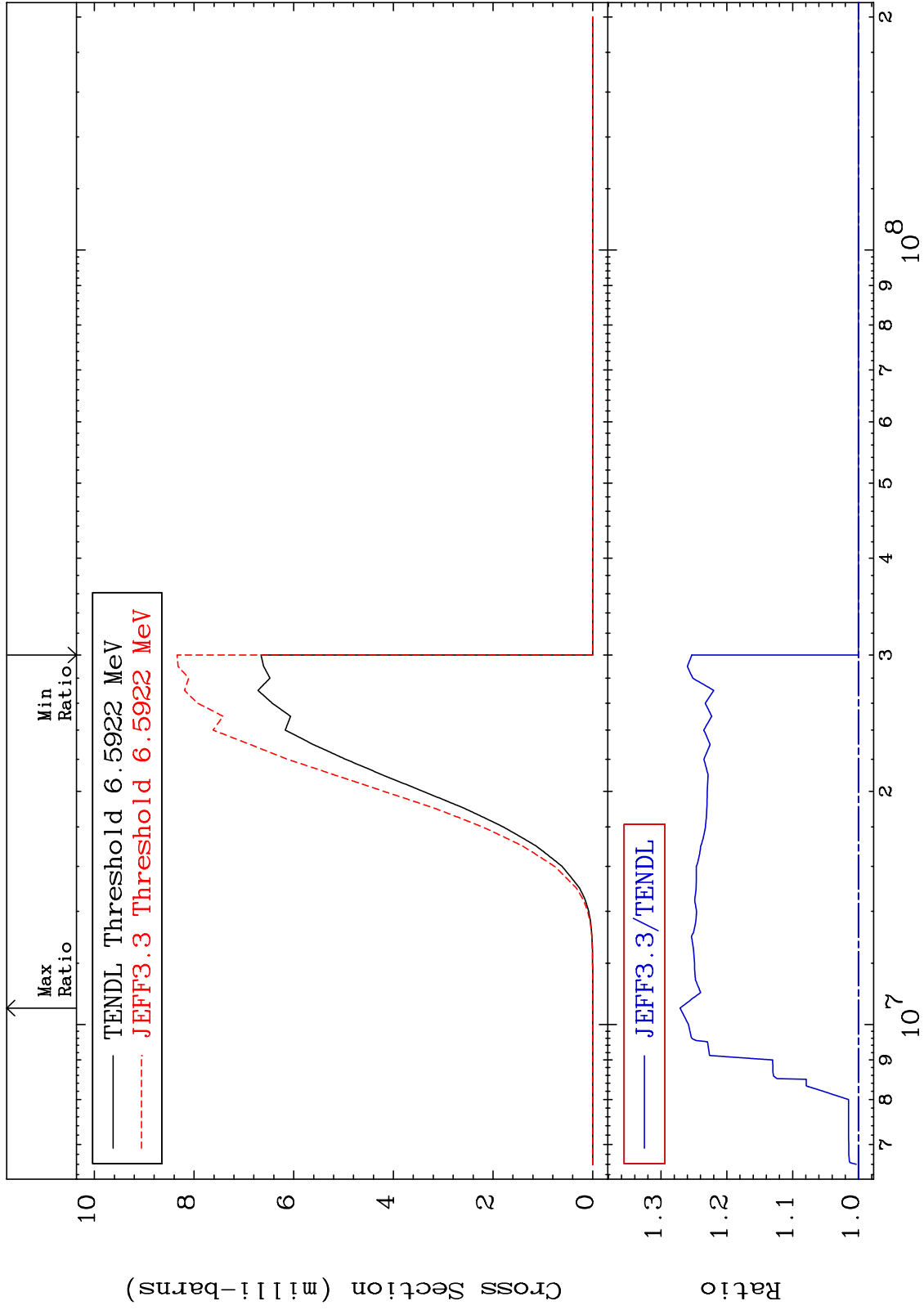


MAT 5446

(n,d):53-I -130g

54-Xe-131

Radionuclide Production Cross Section 0.000 To 27.12 %



92

Incident Energy (eV)

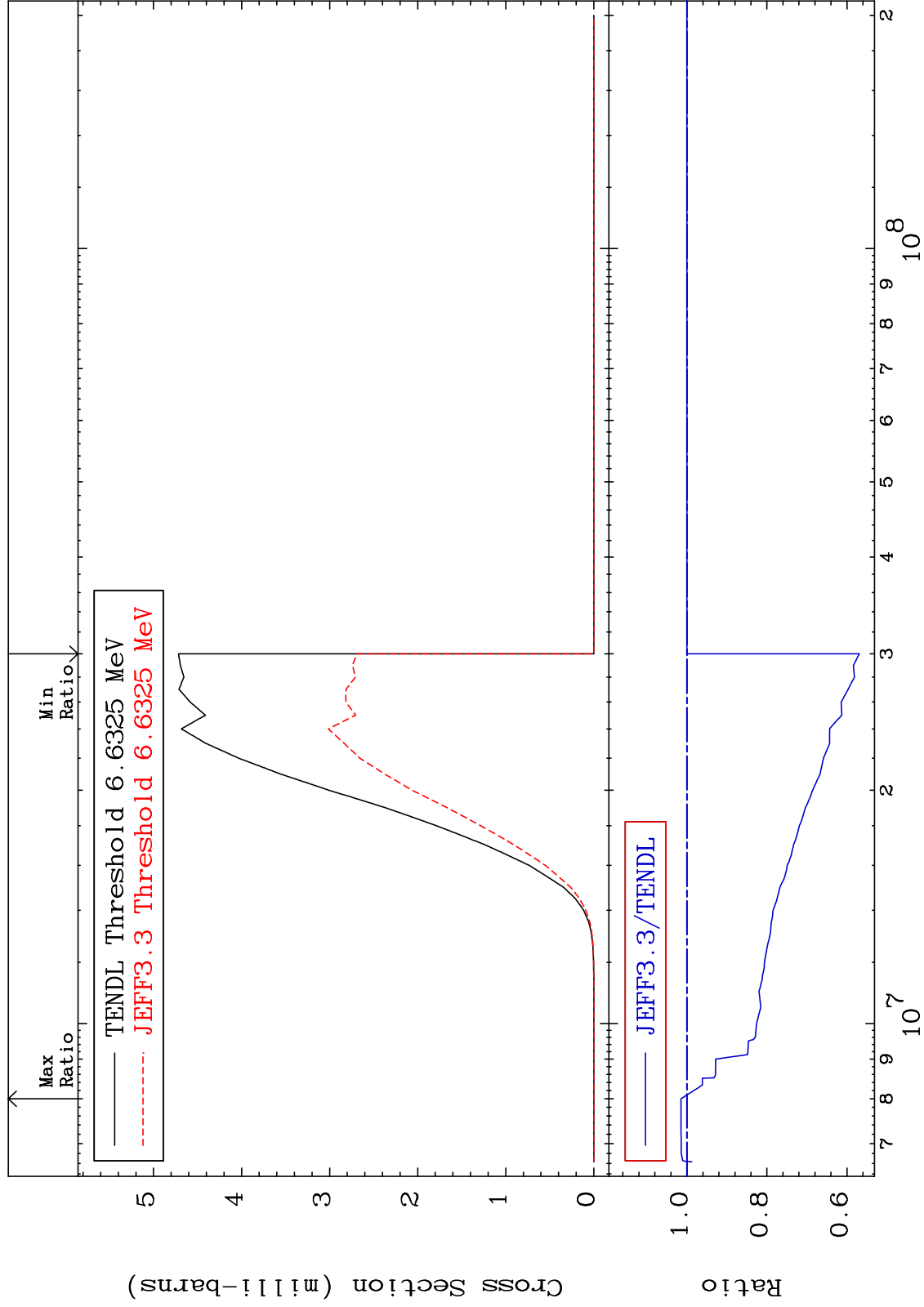
54-Xe-131

MAT 5446

(n,d):53-I -130m1

54-Xe-131

Radionuclide Production Cross Section -43.07 To 1.461 %



93

Incident Energy (eV)

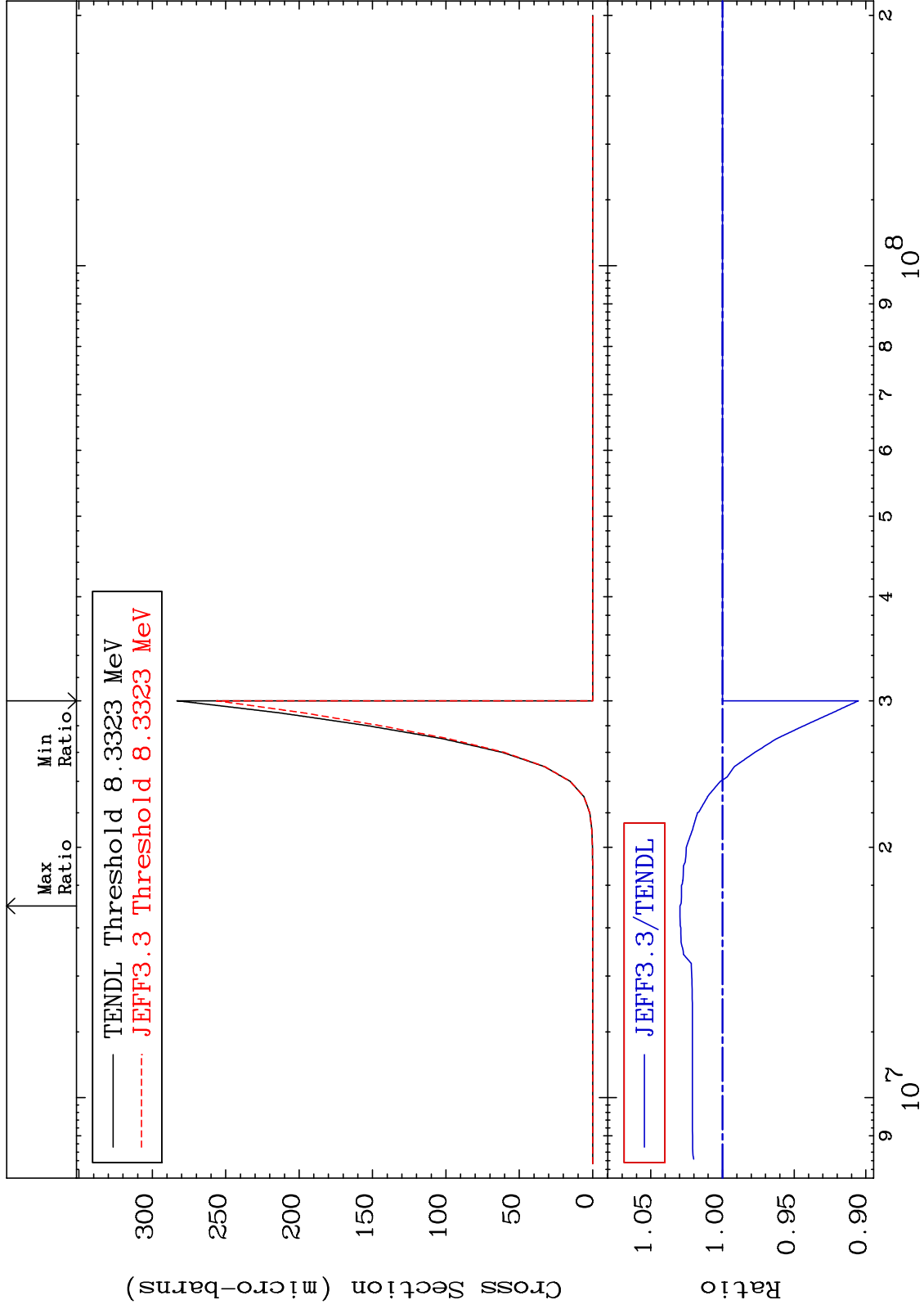
54-Xe-131

MAT 5446

54-Xe-131

(n,He-3):52-Te-129g

Radionuclide Production Cross Section -9.479 To 2.963 %



94

Incident Energy (eV)

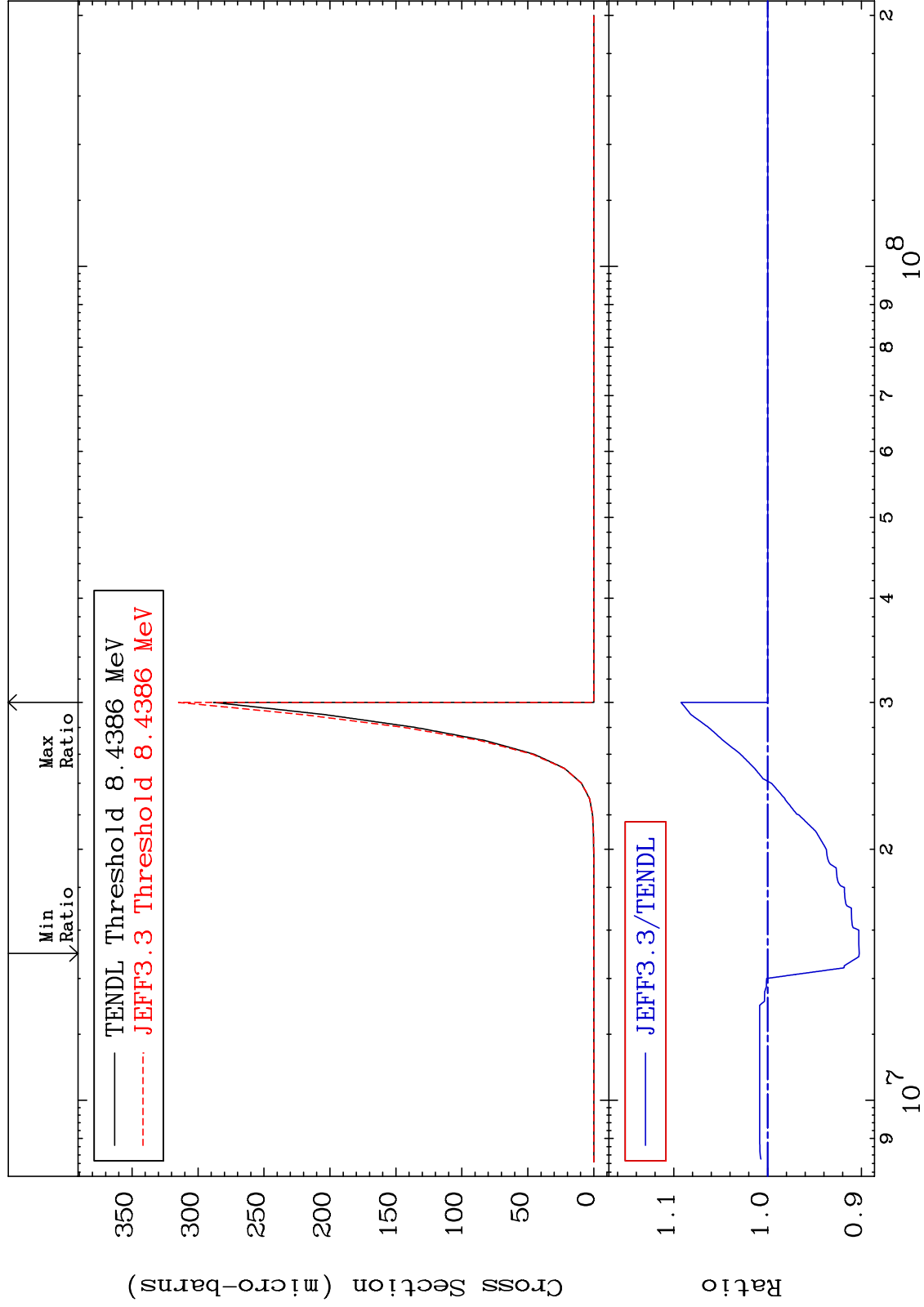
54-Xe-131

MAT 5446

(n, He-3) : 52-Te-129m1

54-Xe-131

Radionuclide Production Cross Section -9.774 To 9.229 %



95

Incident Energy (eV)

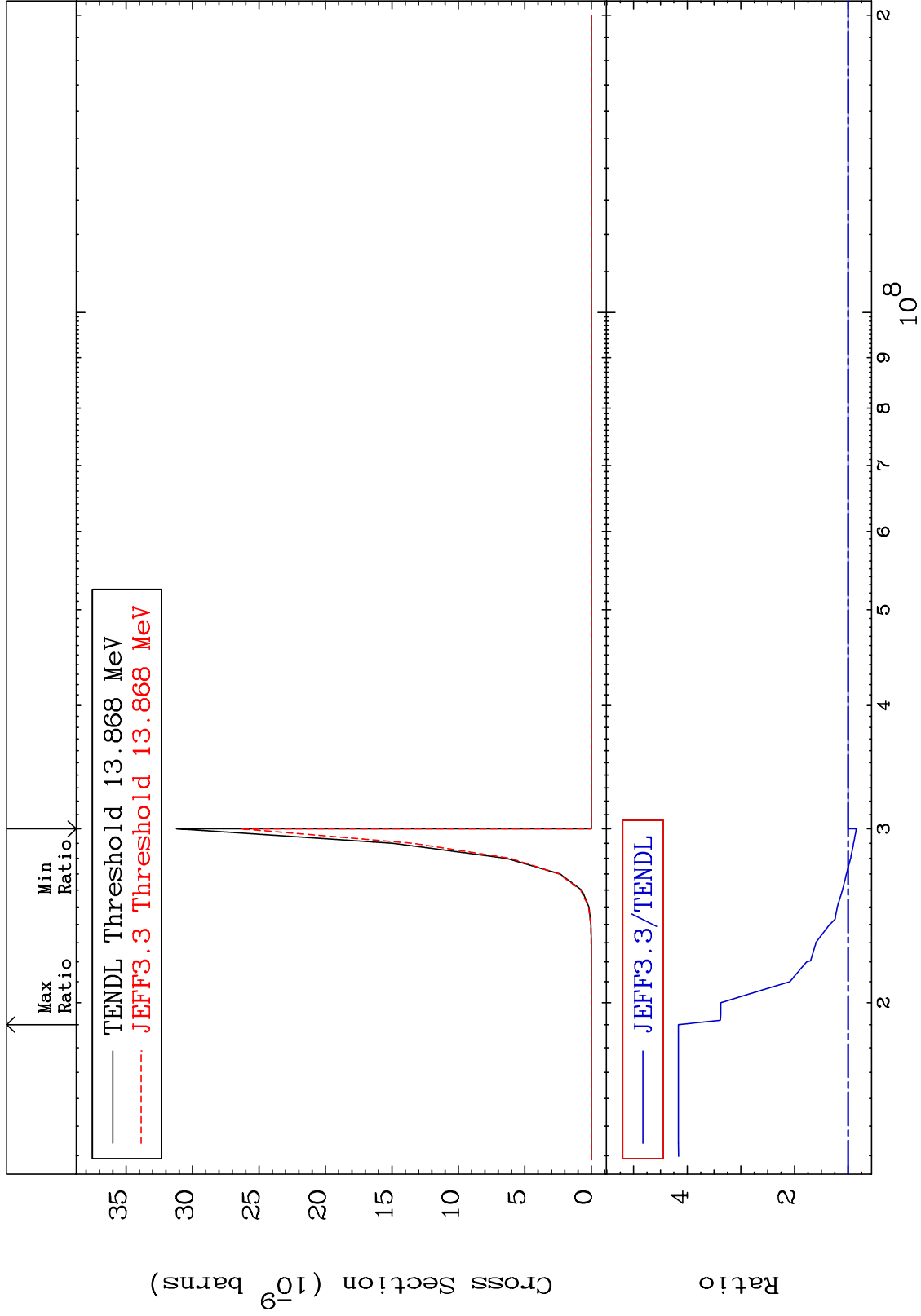
54-Xe-131

MAT 5446

(n, p) d:52-Te-129g

54-Xe-131

Radionuclide Production Cross Section -15.34 To 316.5 %



MAT 5446

(n, p) d:52-Te-129m1

54-Xe-131

Radionuclide Production Cross Section 0.000 To 266.4 %

