

Program Complot
(Version 2018-1)

by

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Press Mouse Button to Start

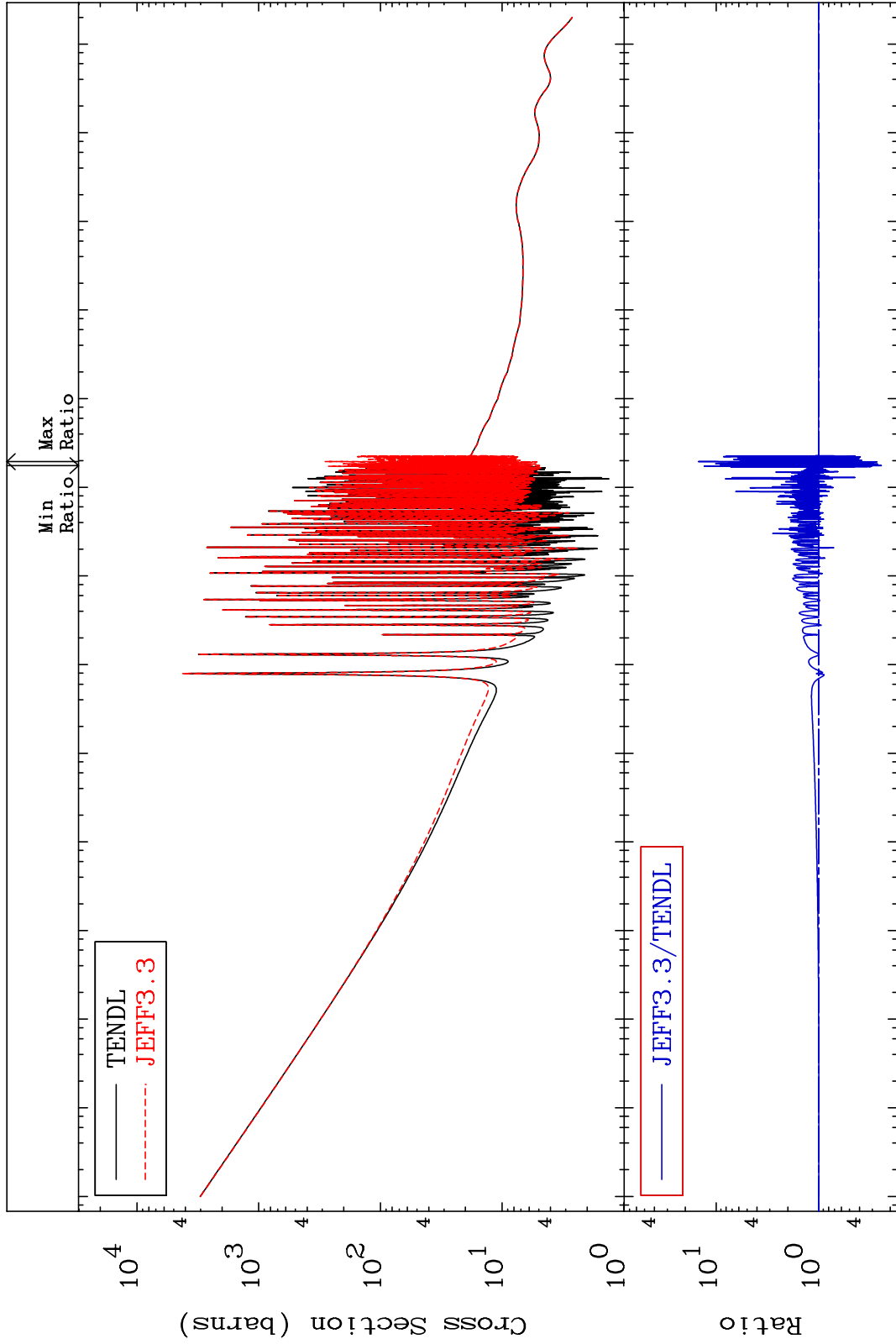
MAT 7034

Total

70-Yb-171

-75.66 To 1392. %

Cross Section



10⁴
10³
10²
10¹
10⁰
10⁻¹
10⁻²
10⁻³
10⁻⁴
10⁻⁵

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

Ratio

Incident Energy (eV)

70-Yb-171

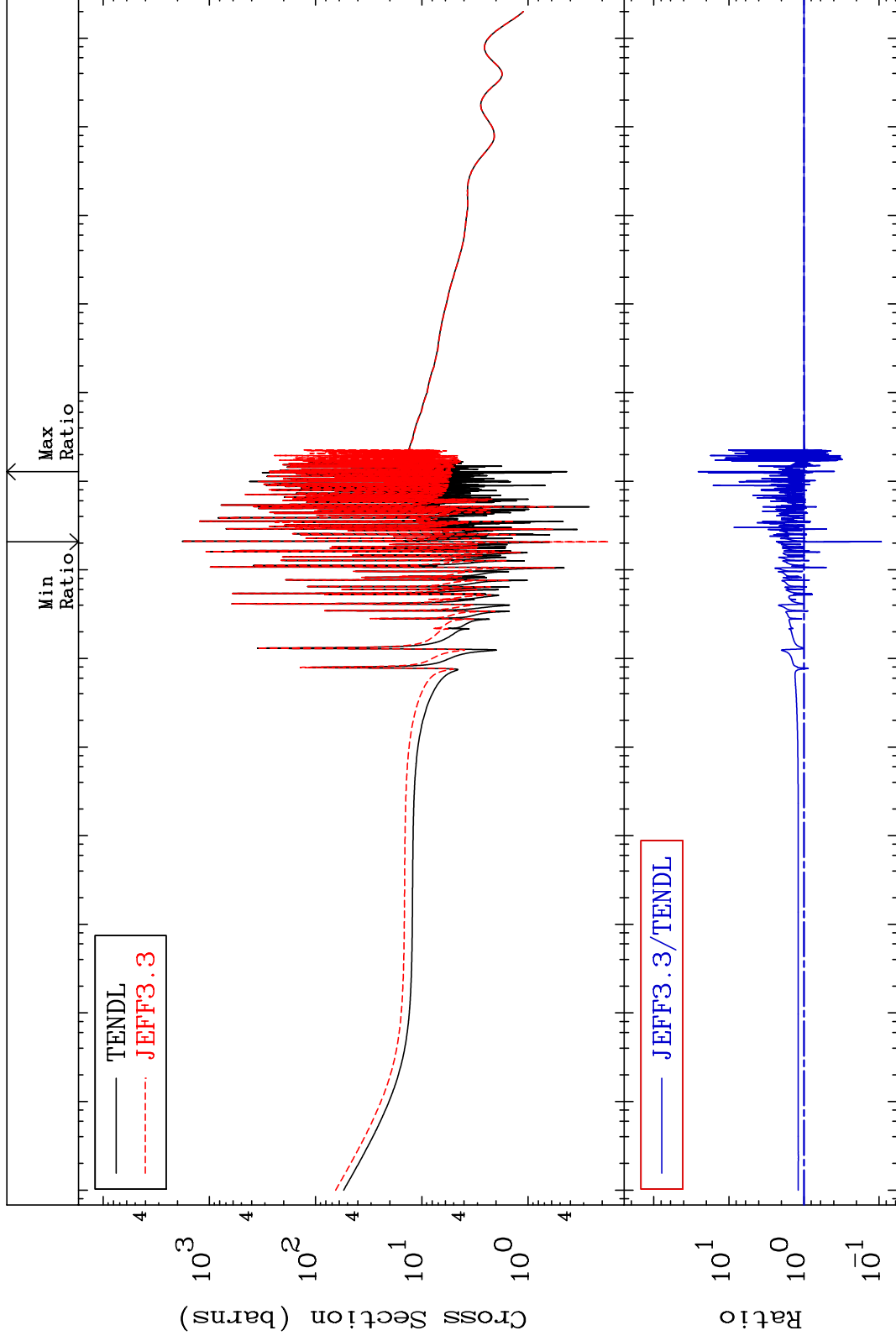
MAT 7034

Elastic

Cross Section

70-Yb-171

-90.75 To 2451. %



Incident Energy (eV)

70-Yb-171

2

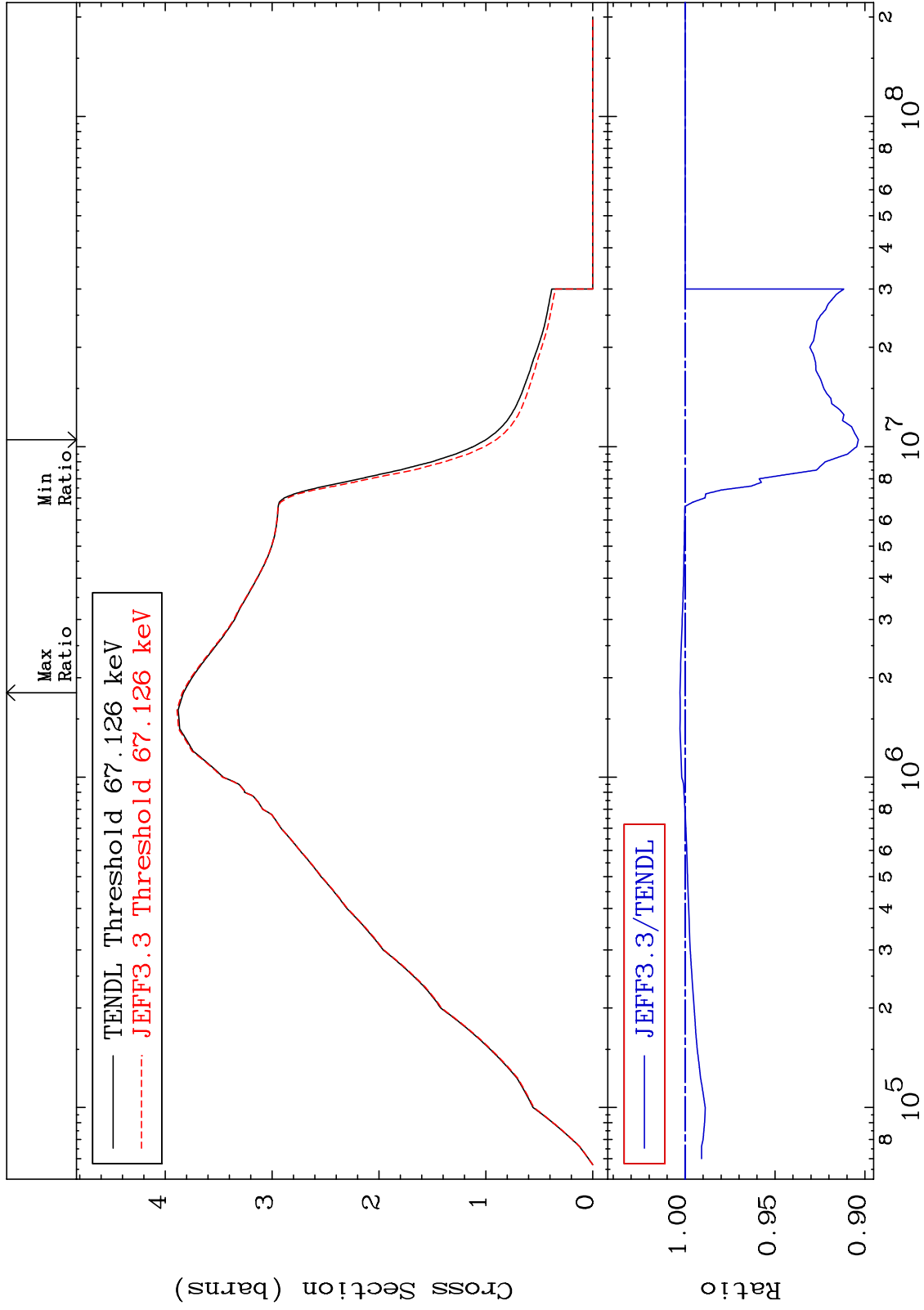
MAT 7034

Inelastic

70-Yb-171

Cross Section

-9.638 To 0.283 %



3

Incident Energy (eV)

70-Yb-171

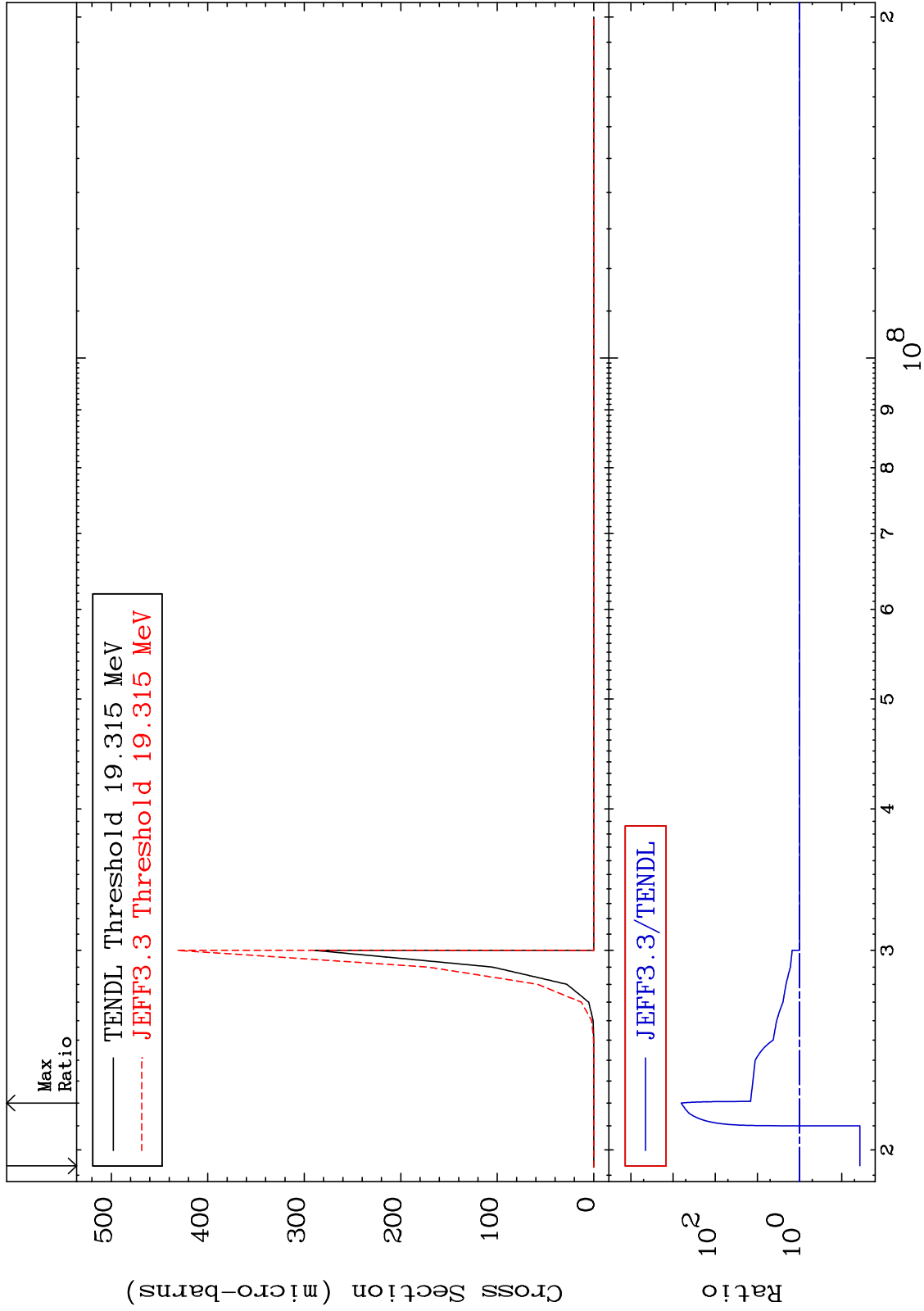
MAT 7034

(n,2n) d

70-Yb-171

Cross Section

-96.31 To 9999. %



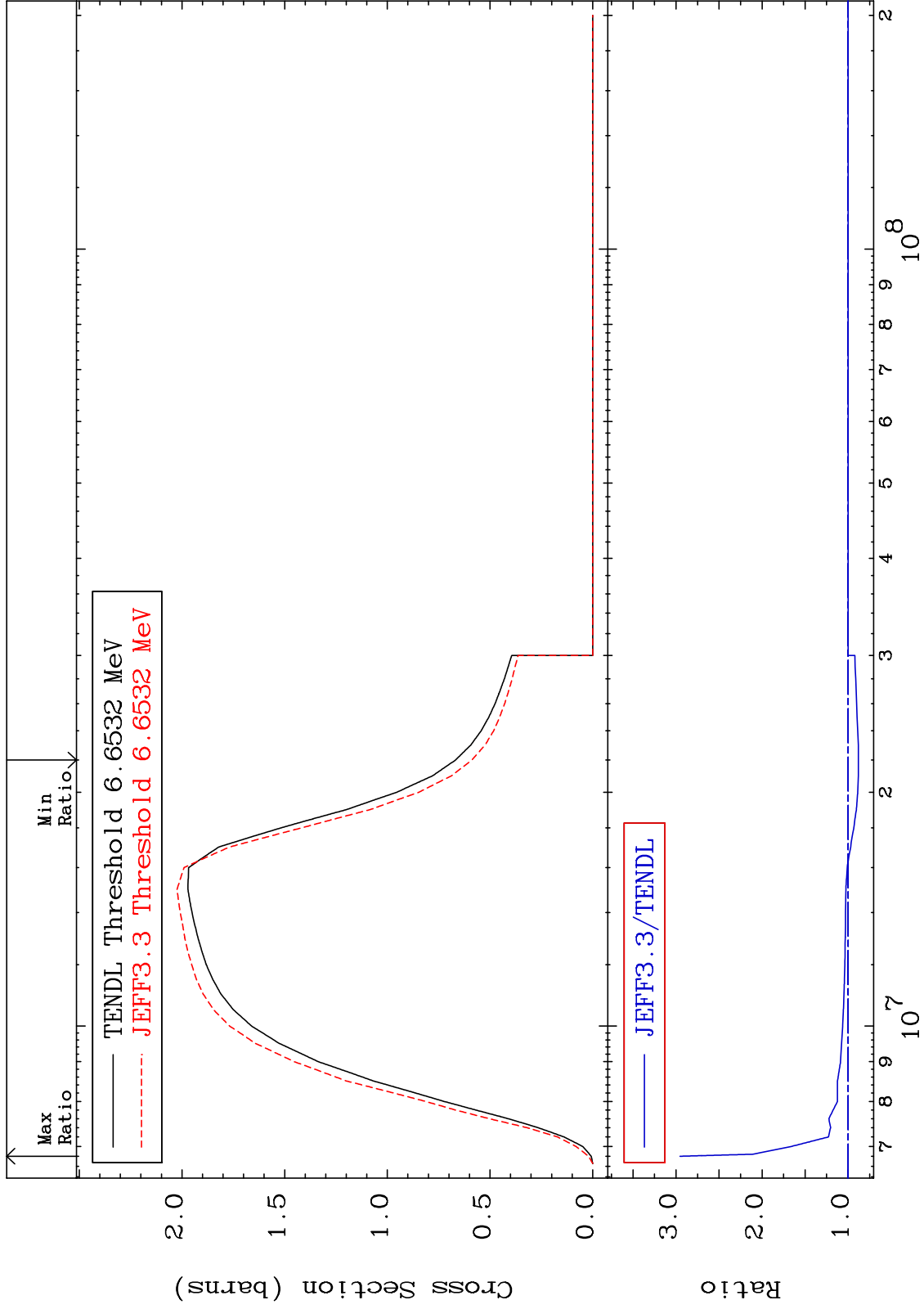
MAT 7034

(n, 2n)

70-Yb-171

Cross Section

-11.95 To 195.3 %



5

Incident Energy (eV)

70-Yb-171

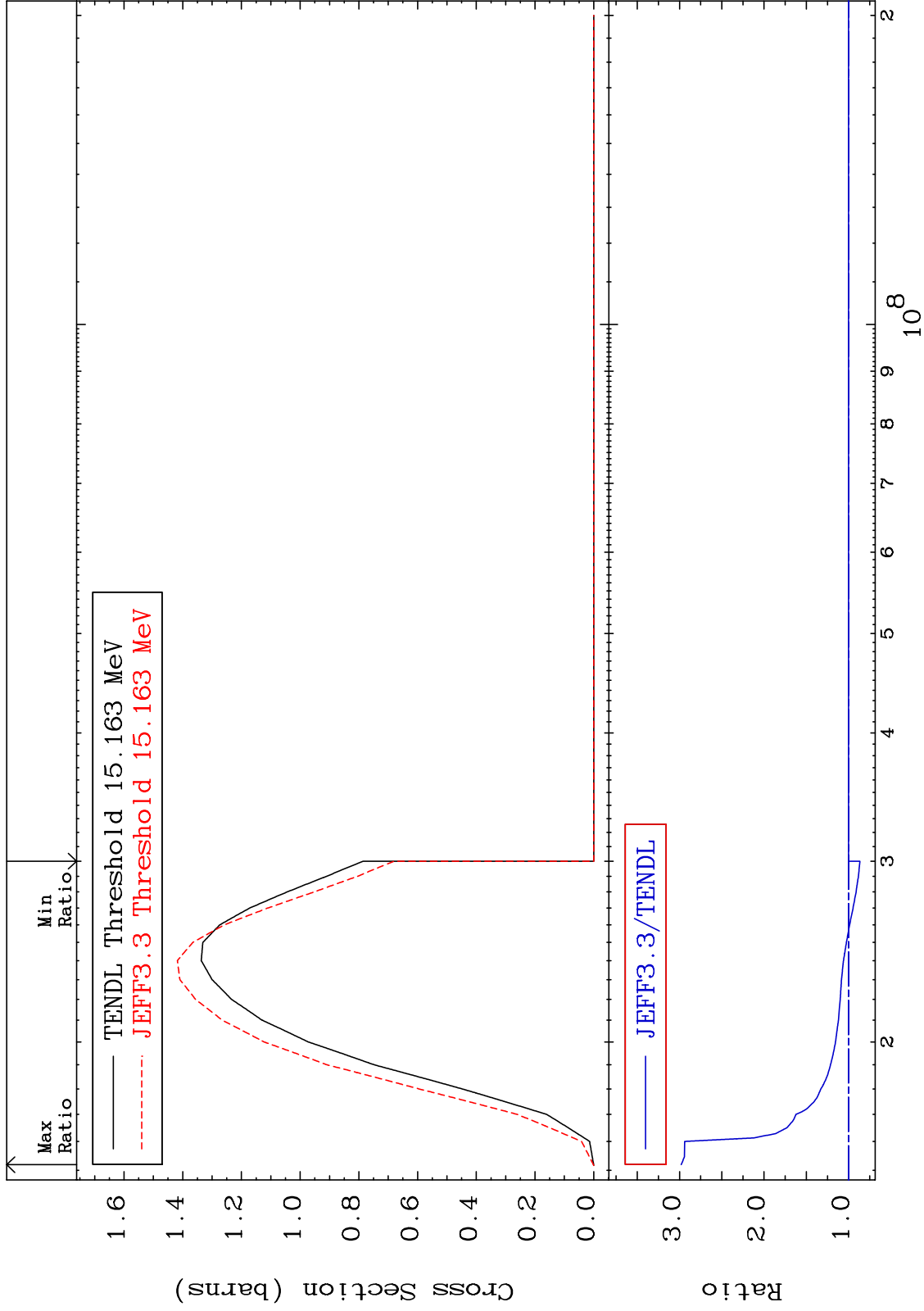
MAT 7034

(n, 3n)

70-Yb-171

Cross Section

-13.40 To 198.0 %



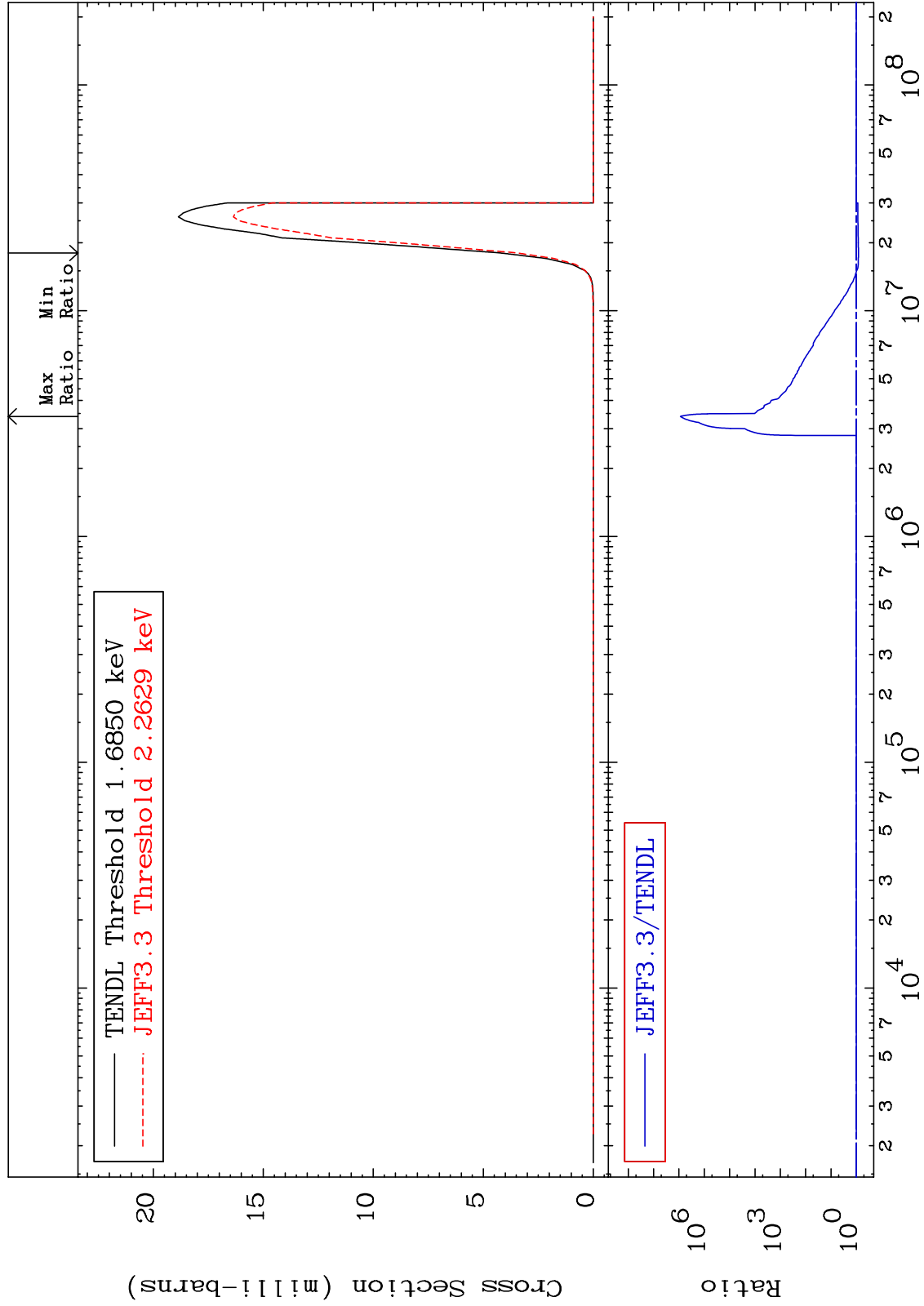
MAT 7034

(n, n') α

70-Yb-171

Cross Section

-17.97 To 9999. %



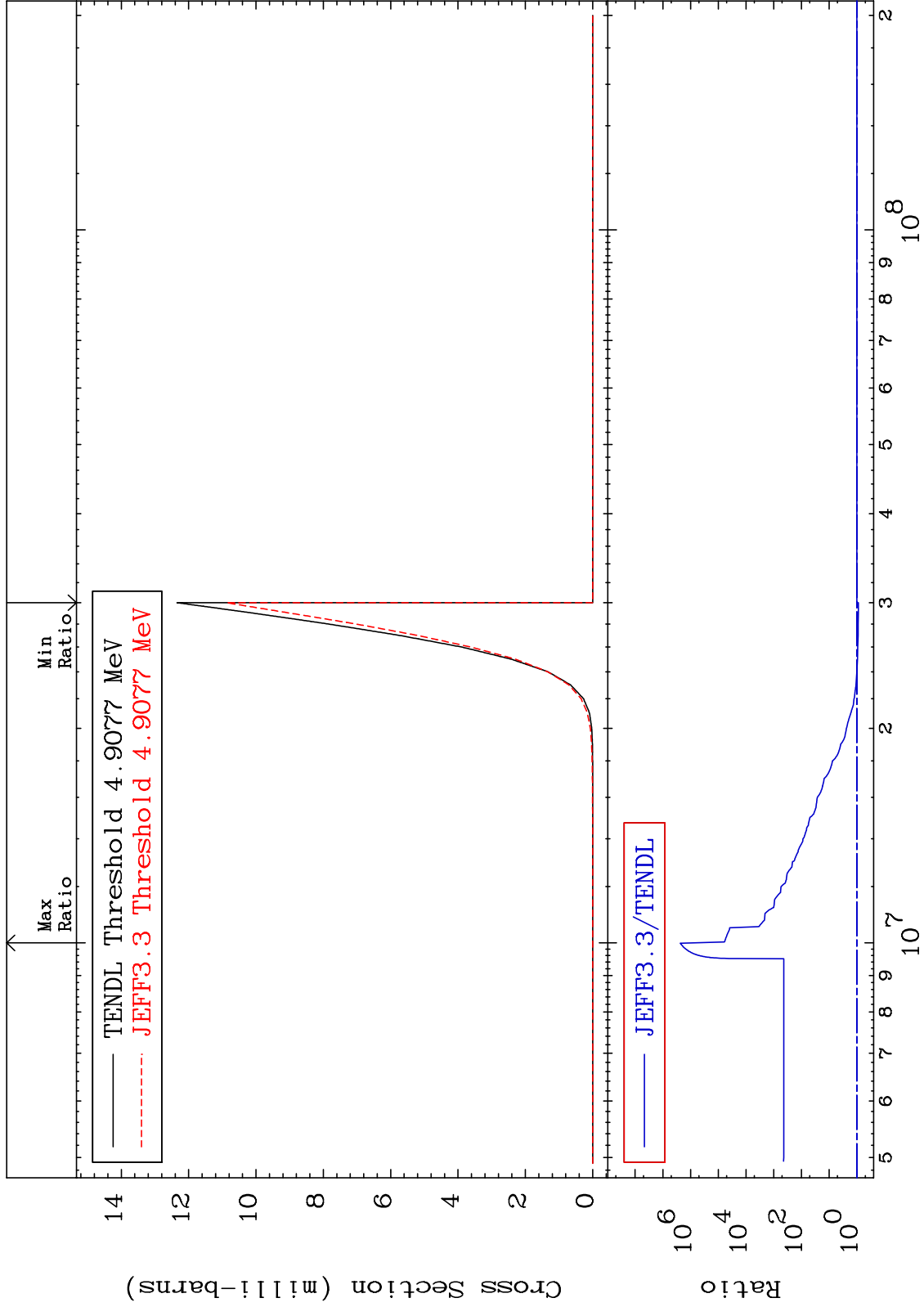
MAT 7034

(n,2n) α

70-Yb-171

-11.82 To 9999. %

Cross Section



MAT 7034

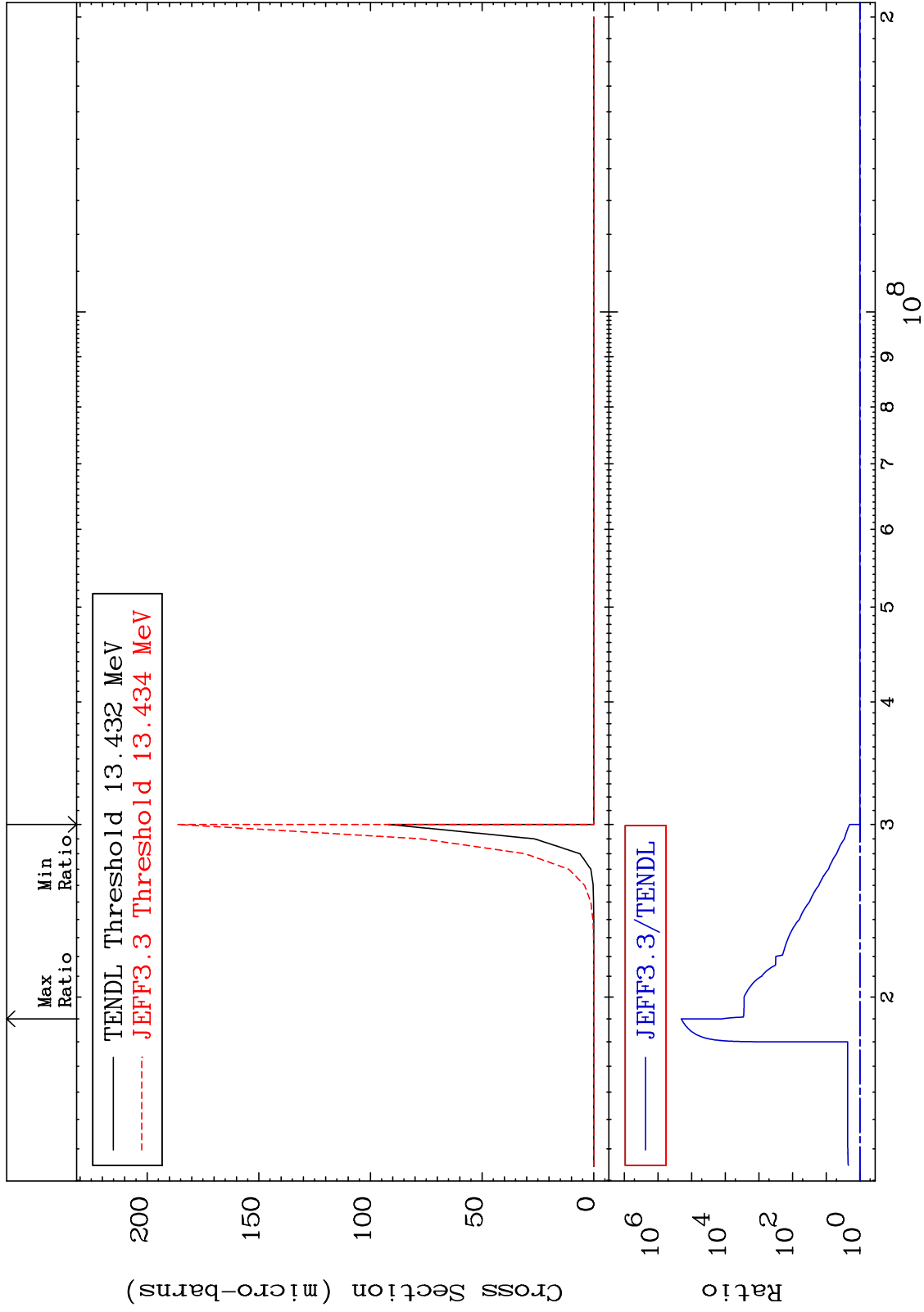
(n,3n) α

70-Yb-171

Cross Section

0.000

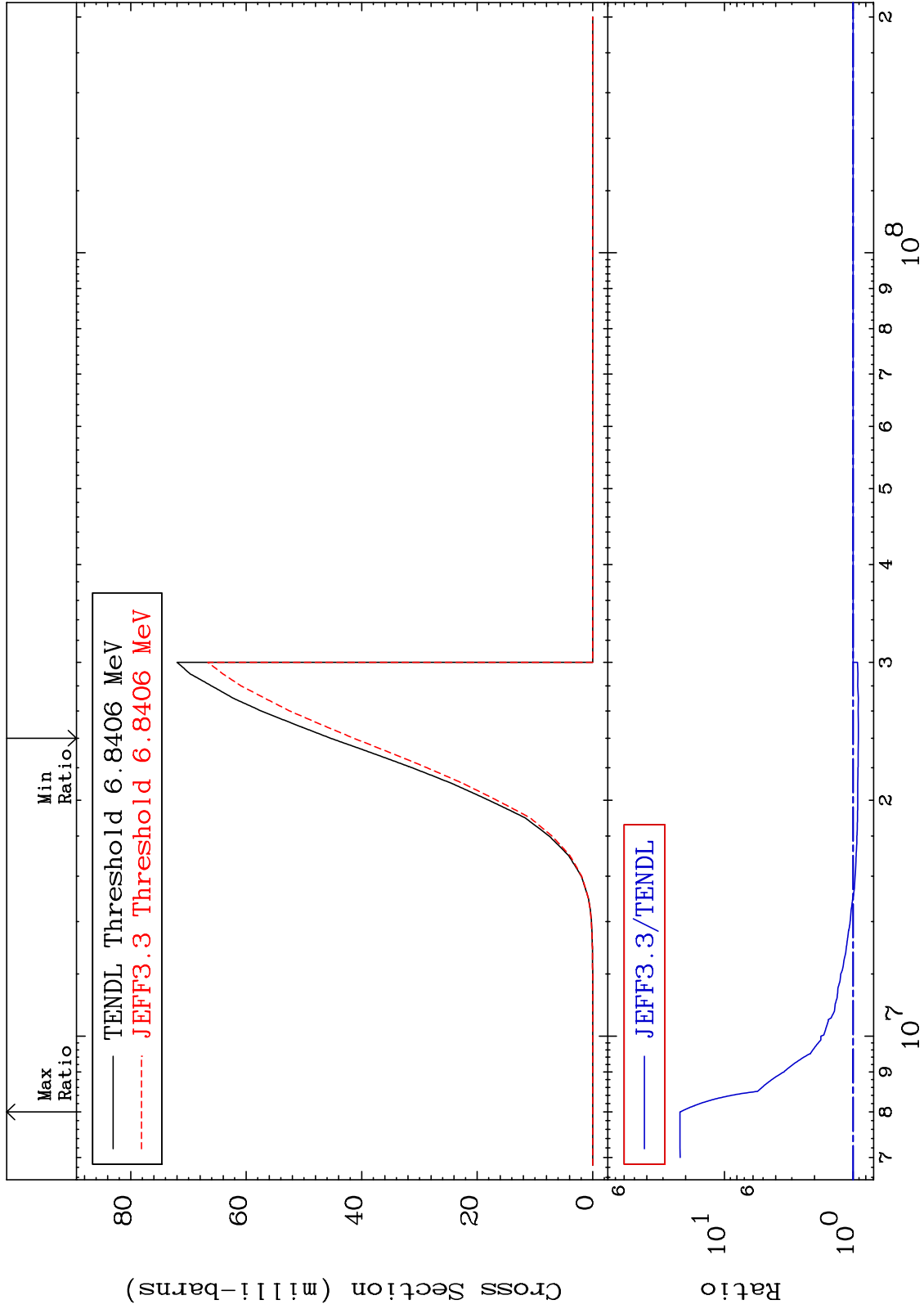
To 9999. %



MAT 7034

(n, n') p
Cross Section

70-Yb-171
-8.884 To 2109. %



10

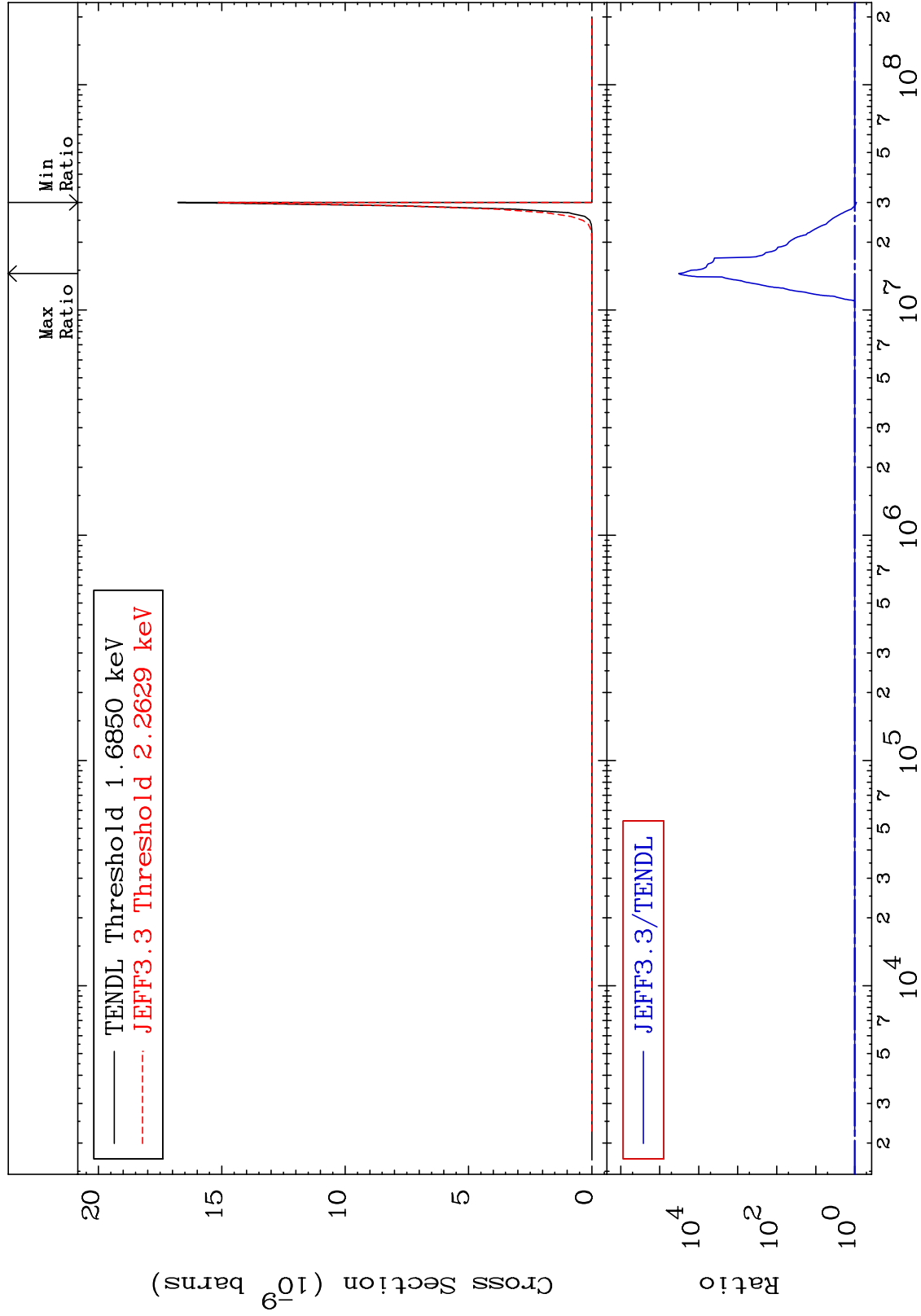
Incident Energy (eV)

70-Yb-171

MAT 7034

(n,n') 2α
Cross Section

70-Yb-171
-9.708 To 9999. %



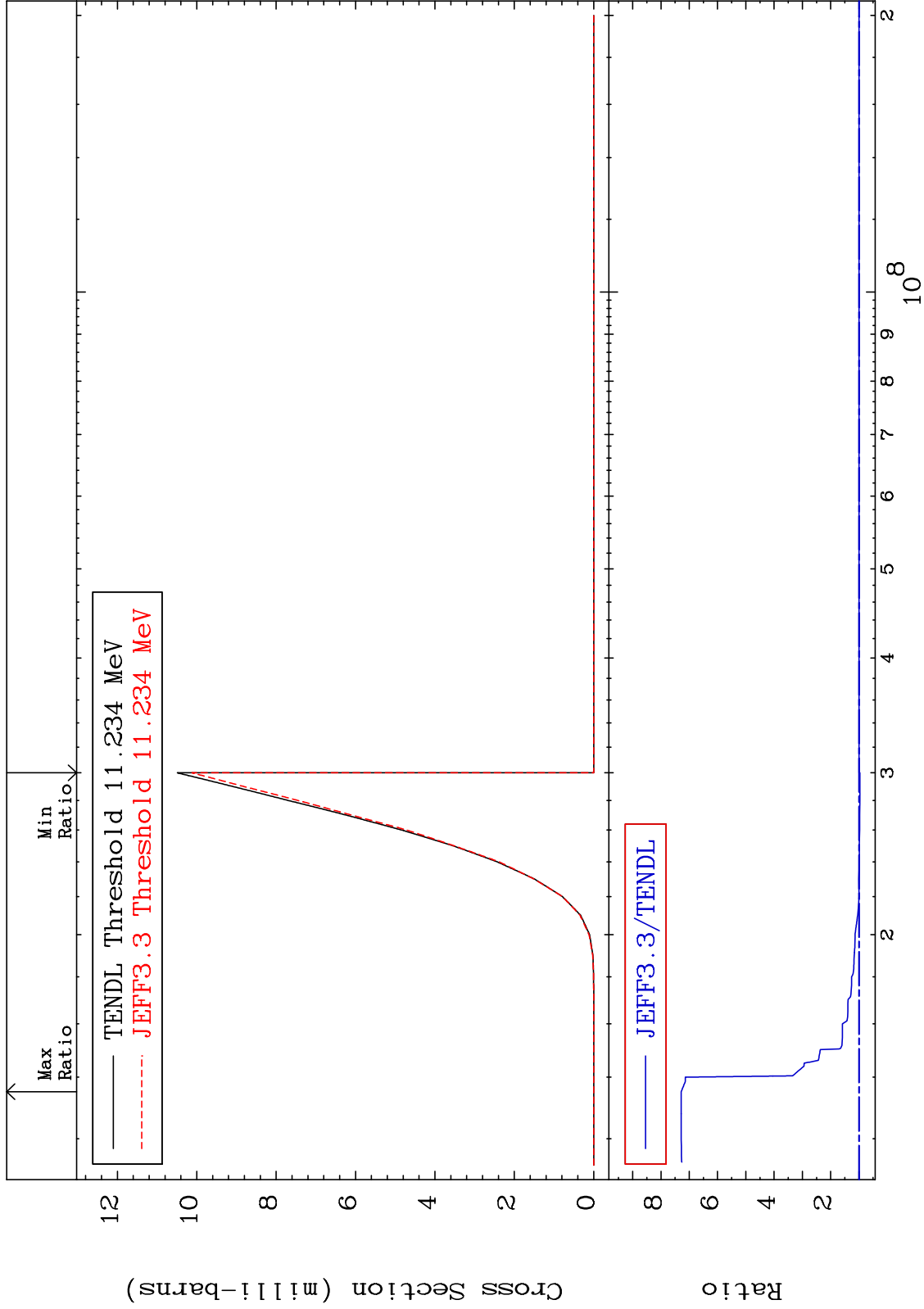
MAT 7034

(n,n') d

70-Yb-171

Cross Section

-3.501 To 628.4 %



MAT 7034

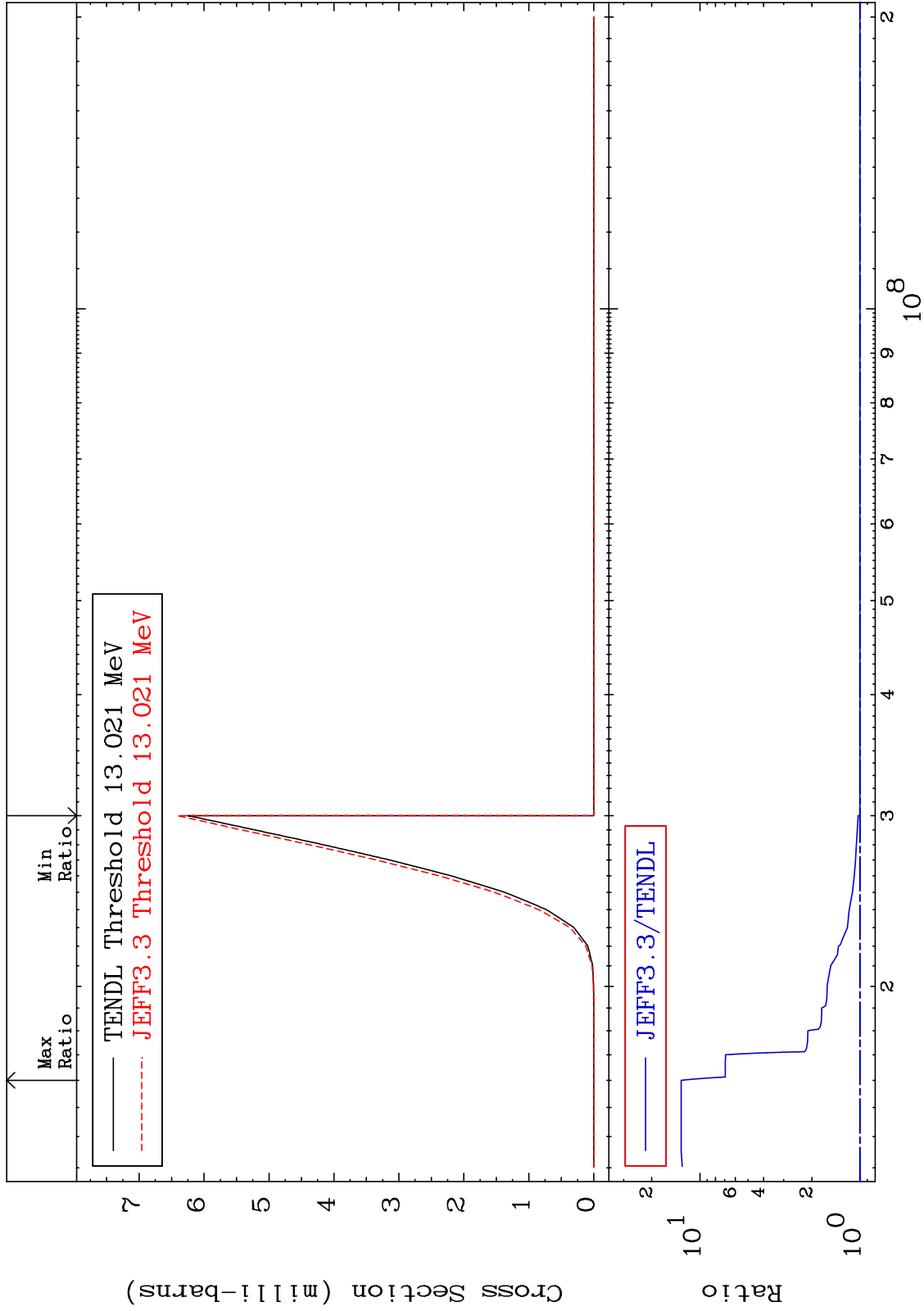
(n, n') t

70-Yb-171

Cross Section

0.000

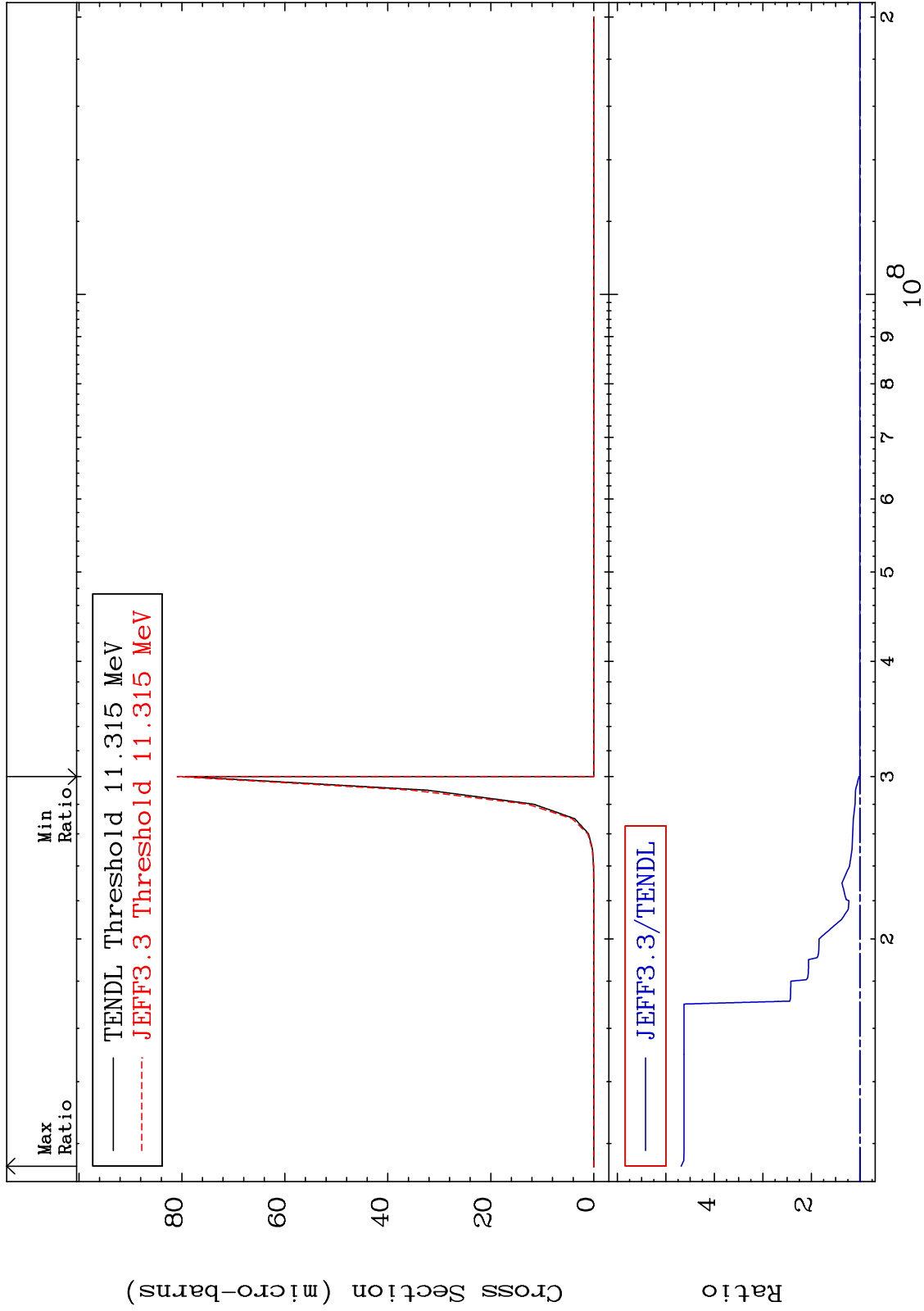
To 1209. %



MAT 7034

(n,n') He-3
Cross Section

70-Yb-171
To 368.4 %
0.000



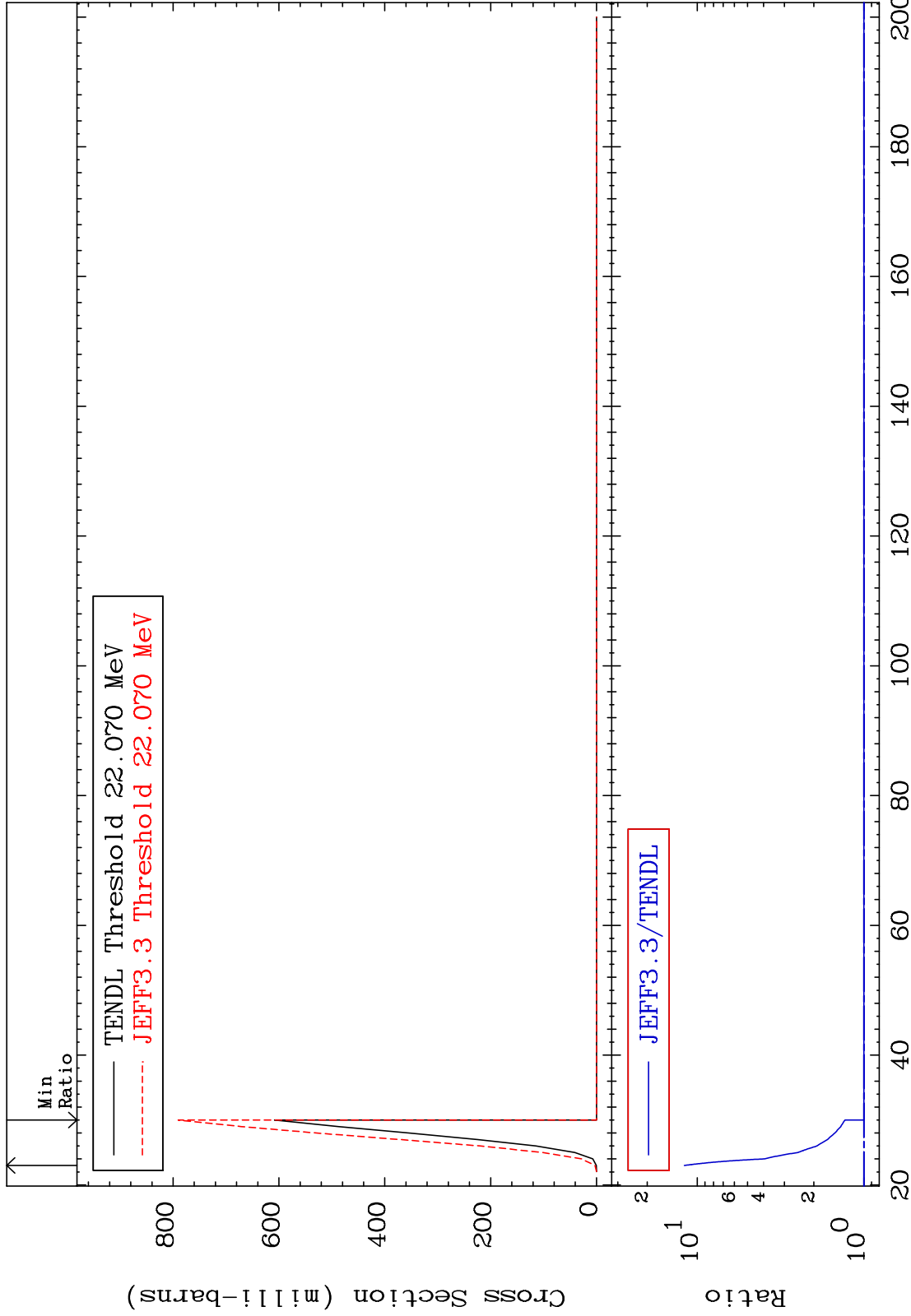
MAT 7034

(n, 4n)

⁷⁰Yb-171

Cross Section

0.000 To 1096. %



⁷⁰Yb-171

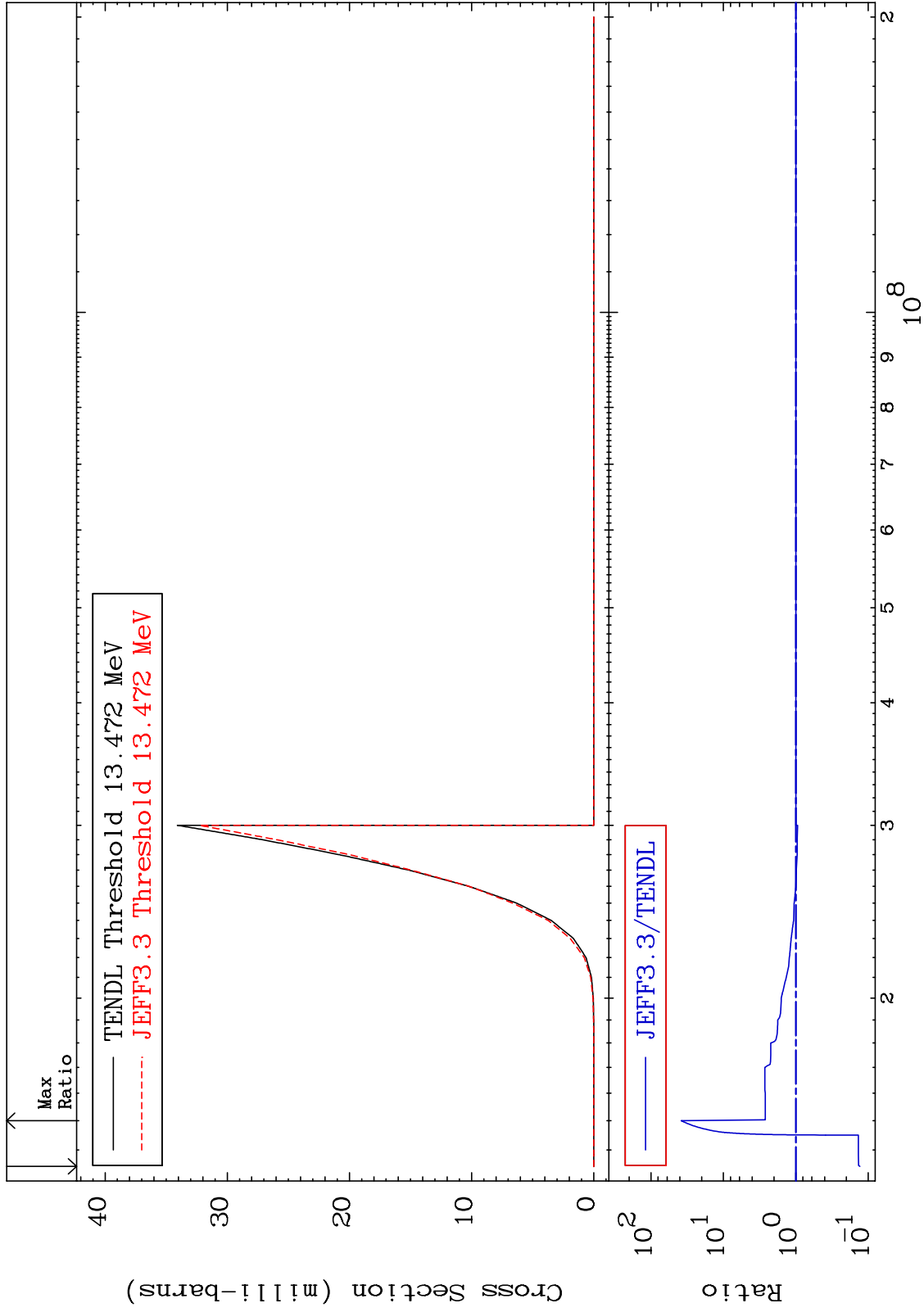
Incident Energy (MeV)

15

MAT 7034

(n,2n) p
Cross Section

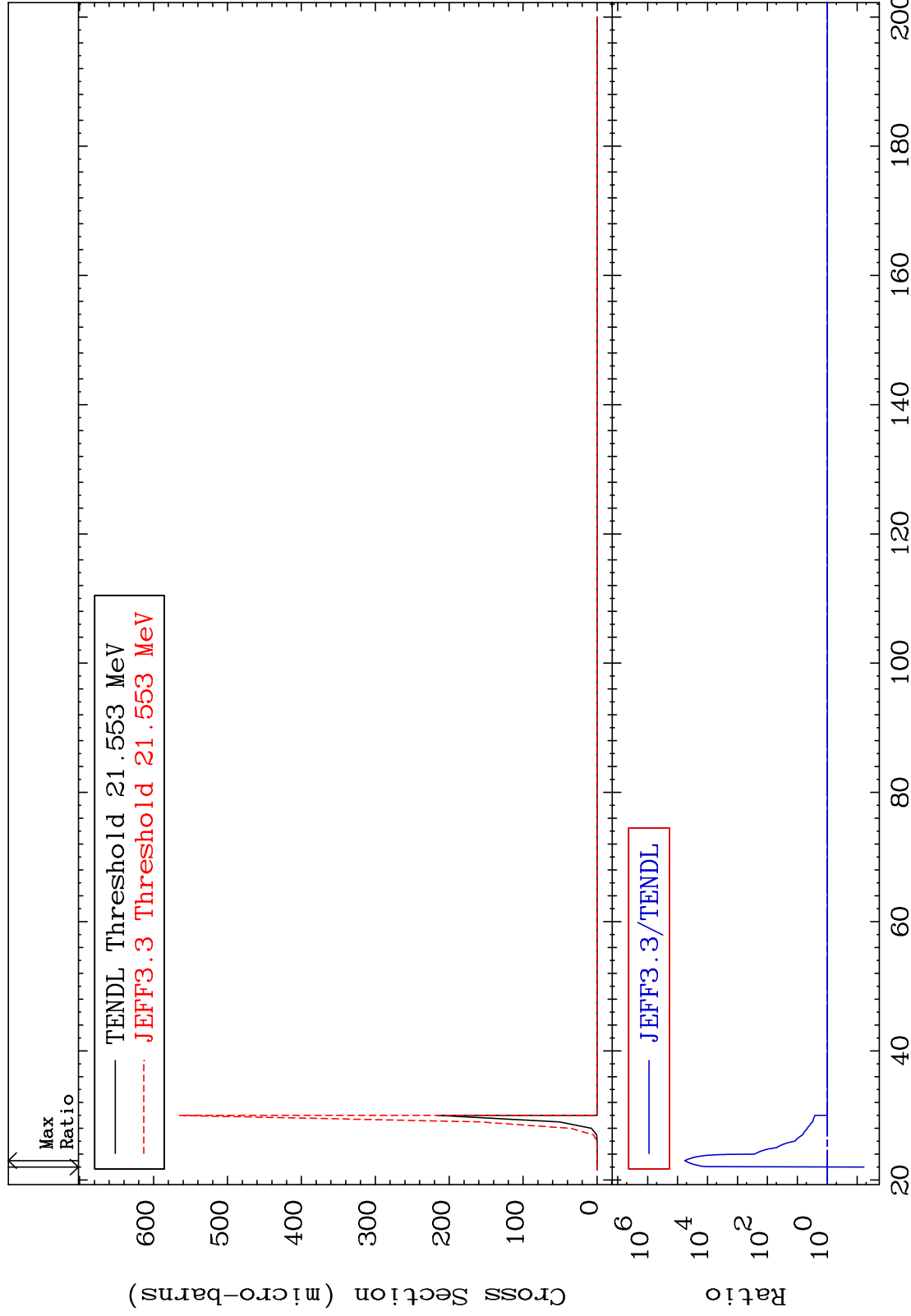
70-Yb-171
-87.00 To 3728. %



MAT 7034

(n,3n) p
Cross Section

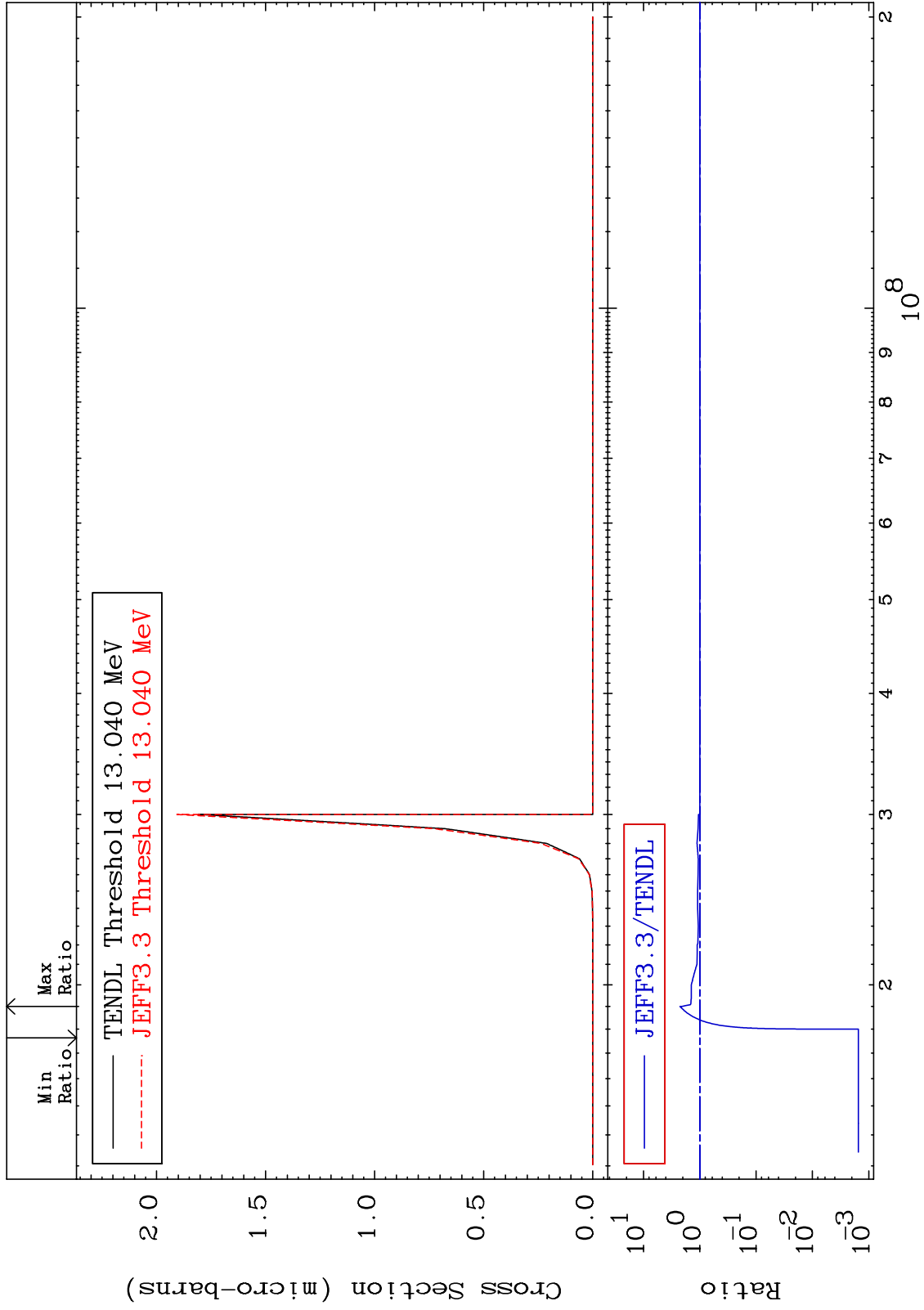
70-Yb-171
-94.05 To 9999. %



MAT 7034

(n,2n) p
Cross Section

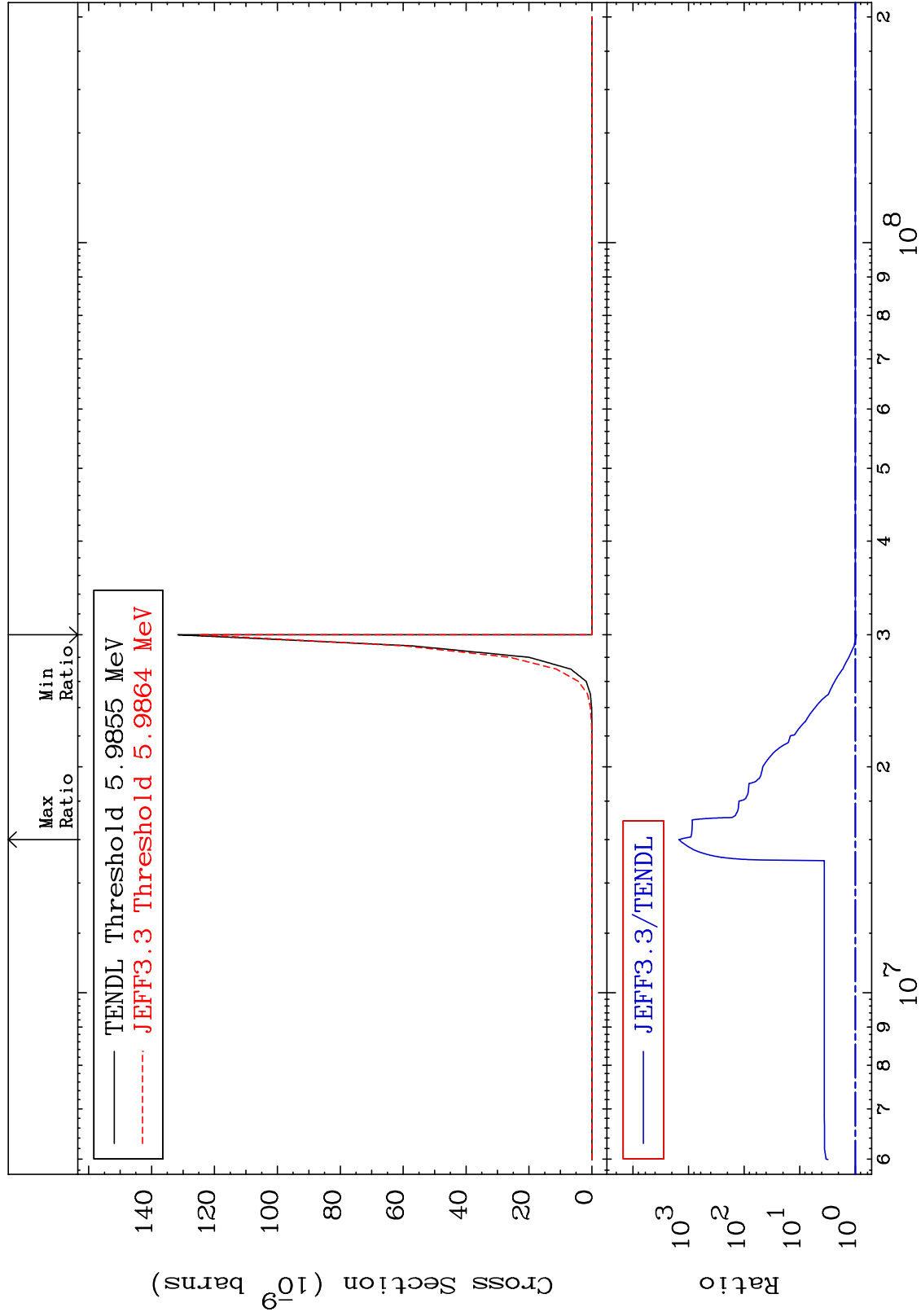
70-Yb-171
-99.85 To 124.3 %



MAT 7034

(n,n') p α
Cross Section

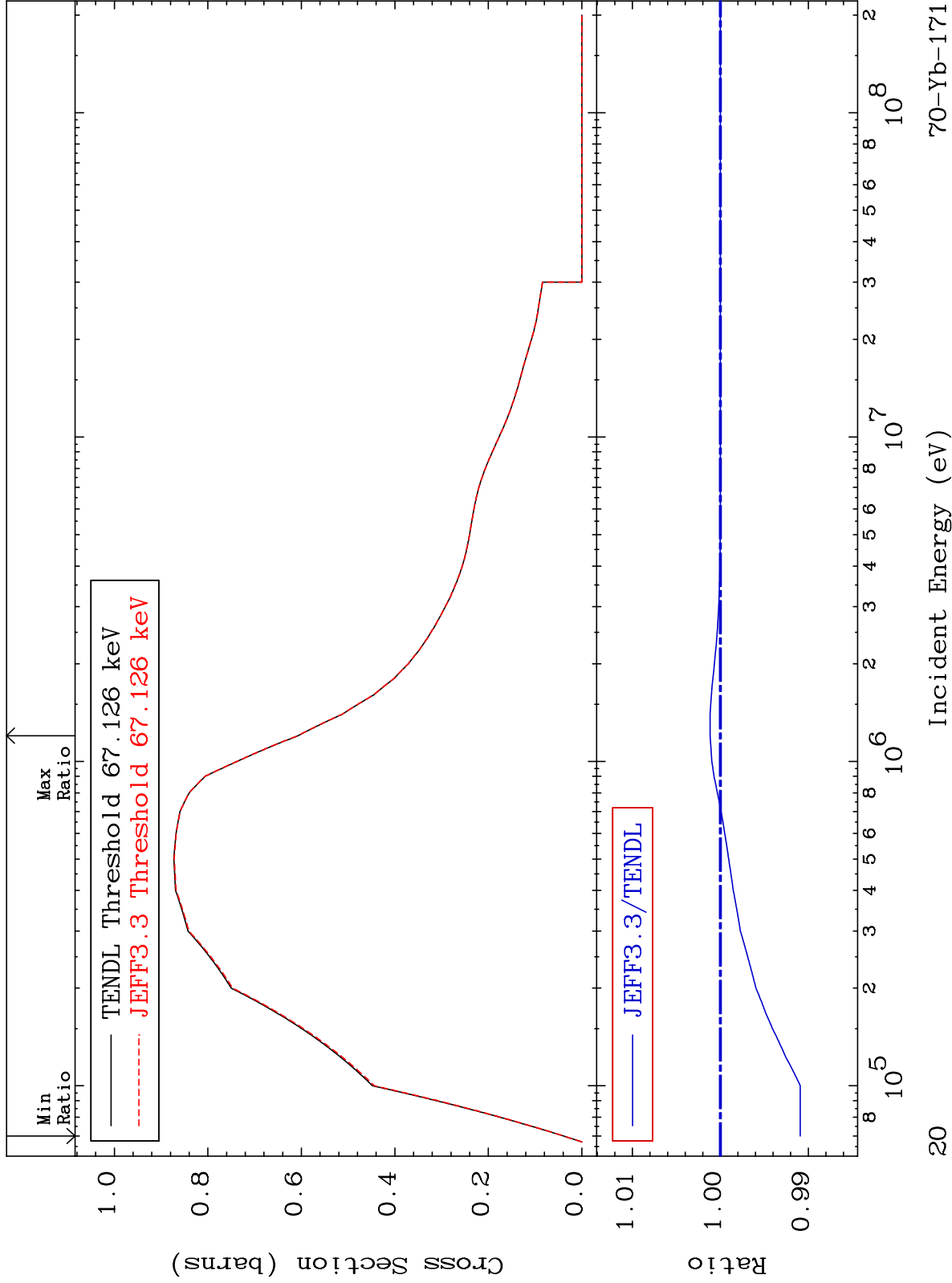
70-Yb-171
-4.998 To 9999. %



MAT 7034

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

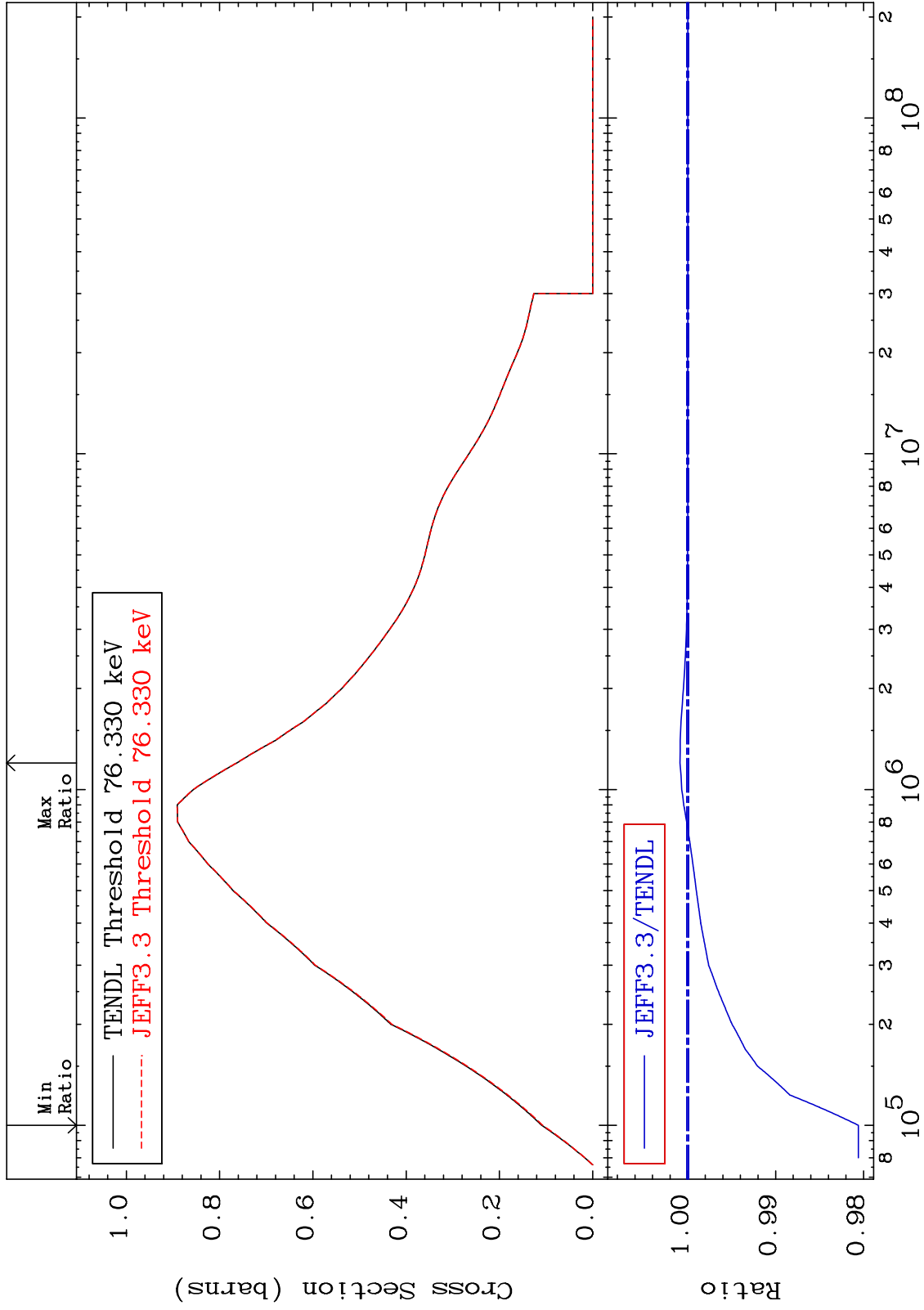
70-Yb-171
-0.909 To 0.118 %



MAT 7034

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

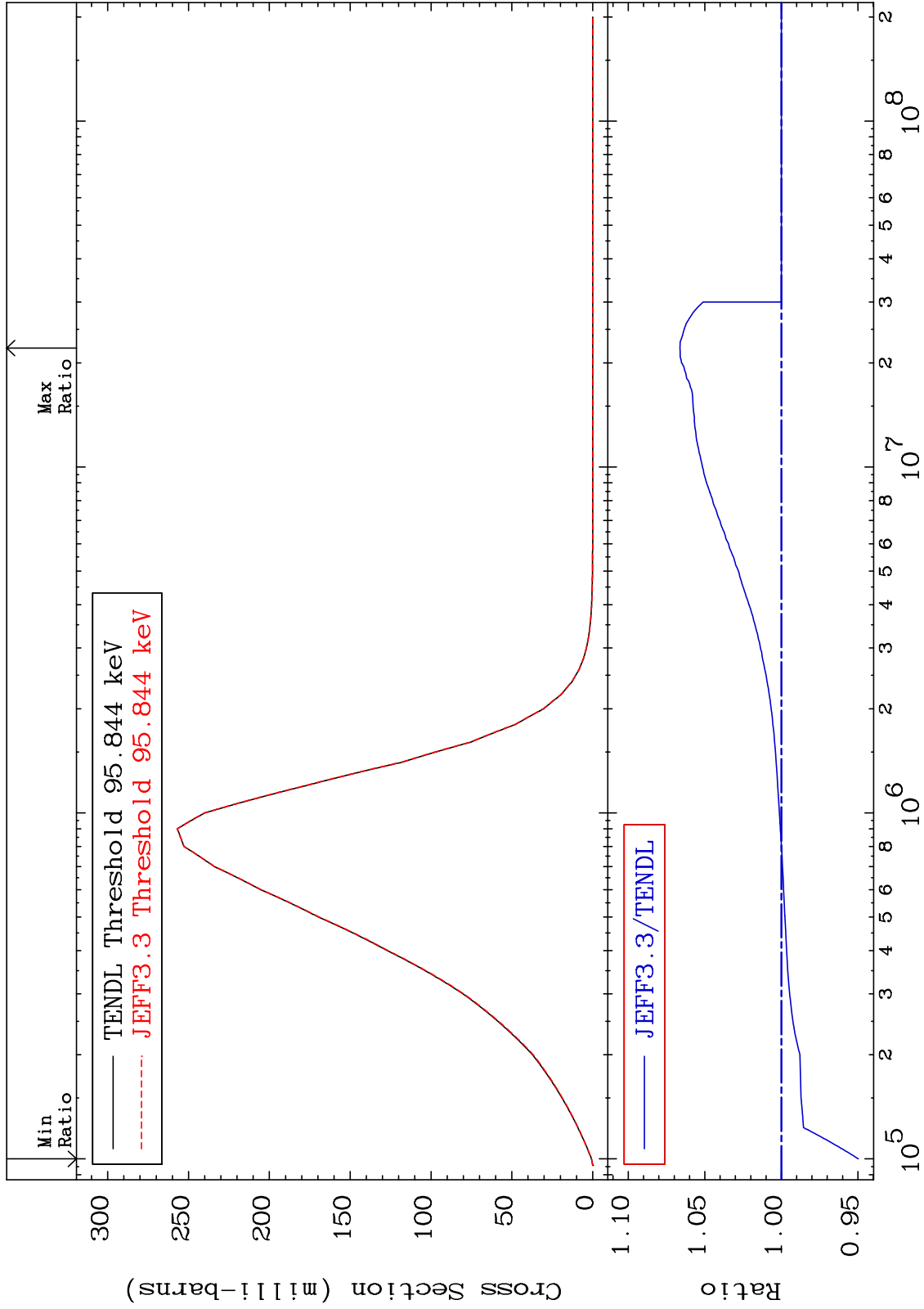
70-Yb-171
-1.941 To 0.087 %



MAT 7034

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

70-Yb-171
-5.036 To 6.620 %



22

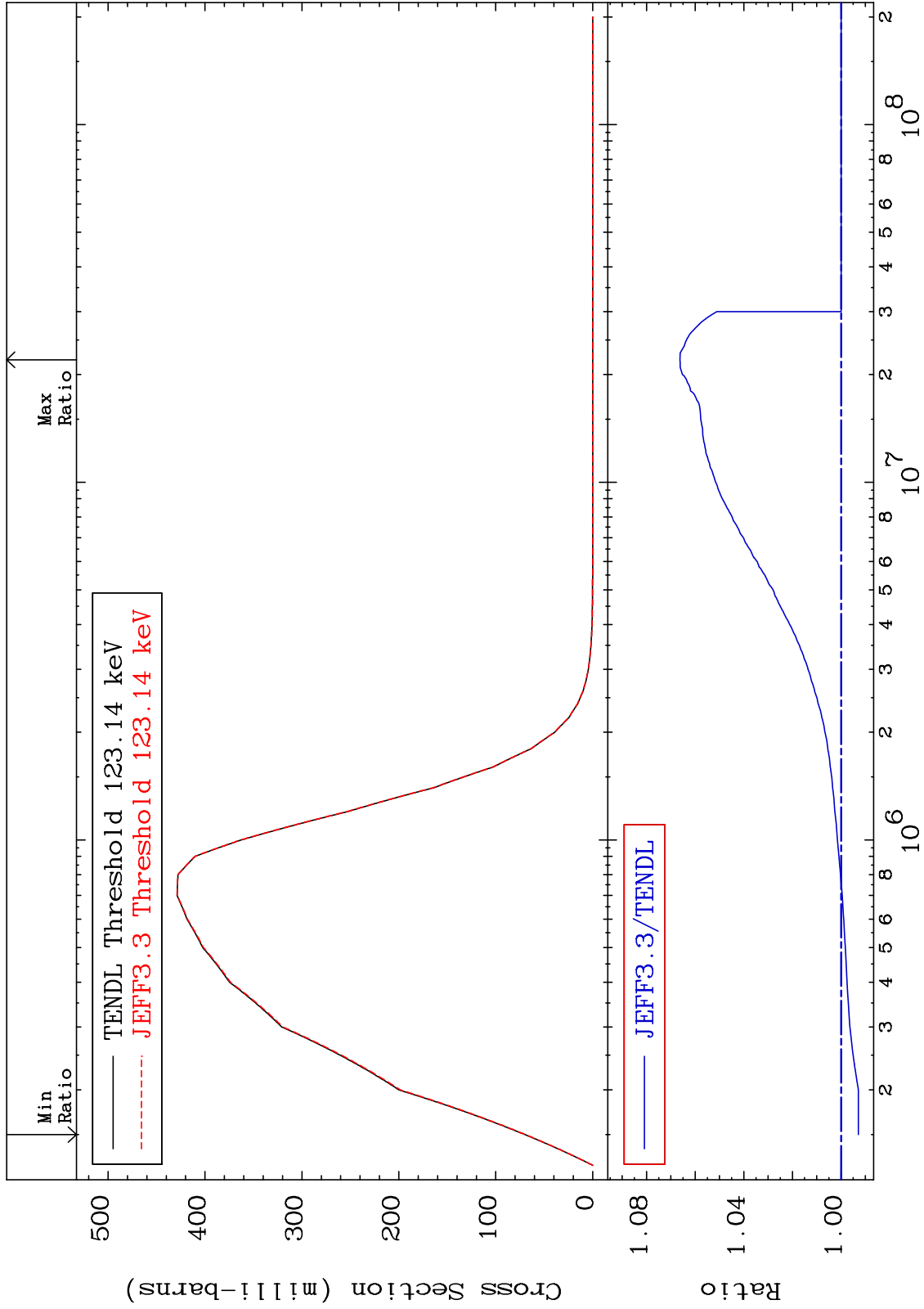
Incident Energy (eV)

70-Yb-171

MAT 7034

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

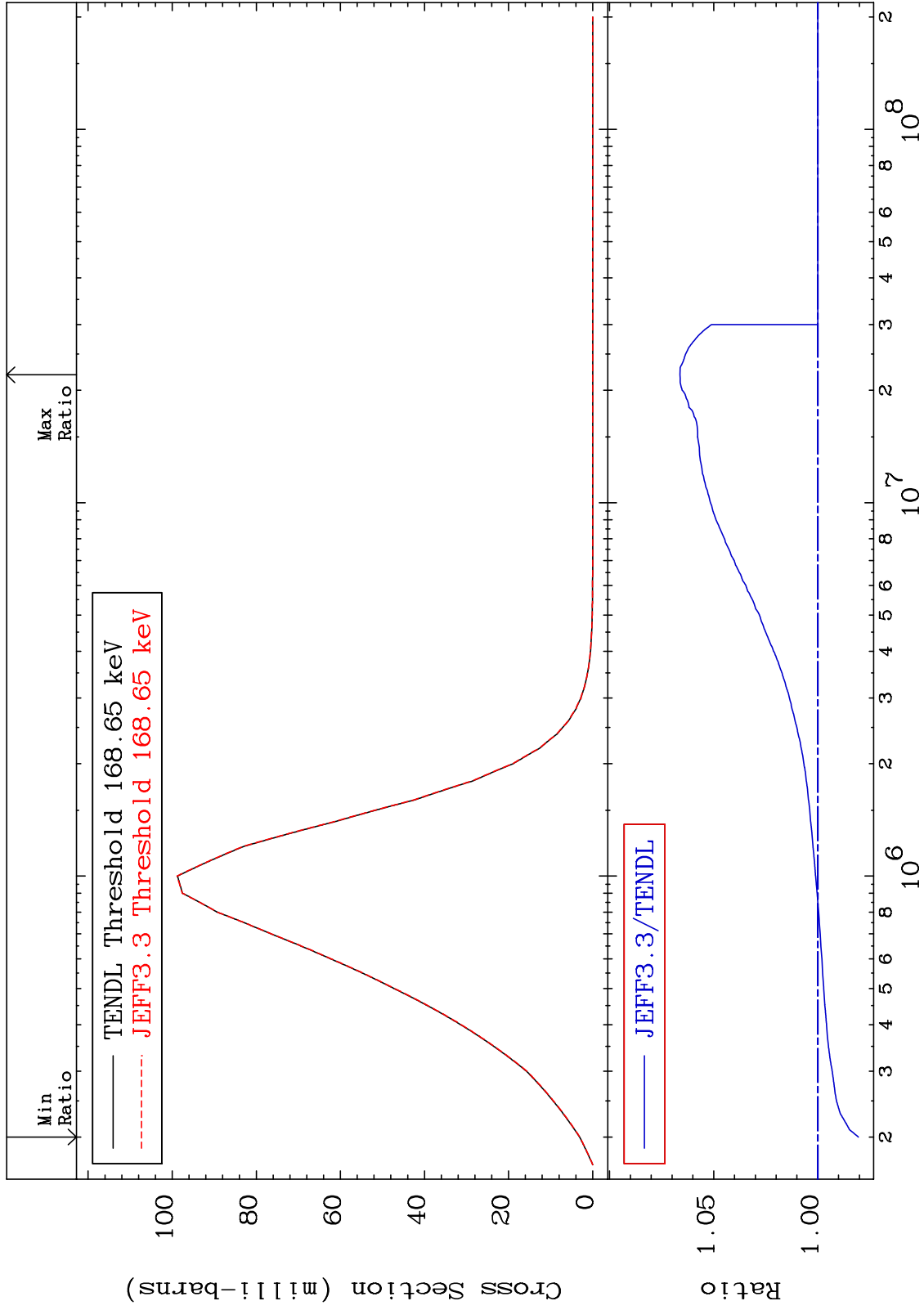
70-Yb-171
-0.713 To 6.623 %



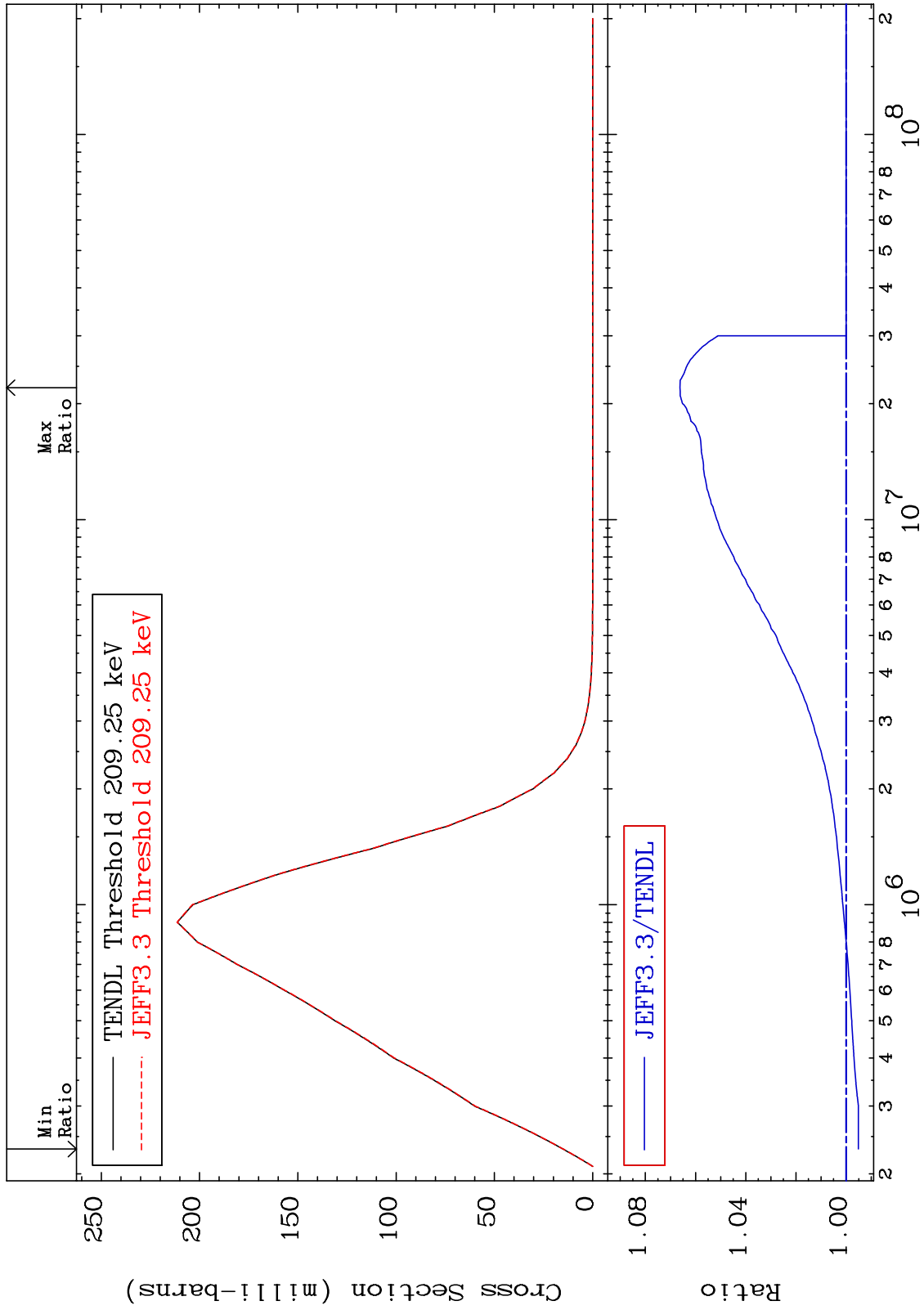
MAT 7034

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

70-Yb-171
-1.950 To 6.615 %



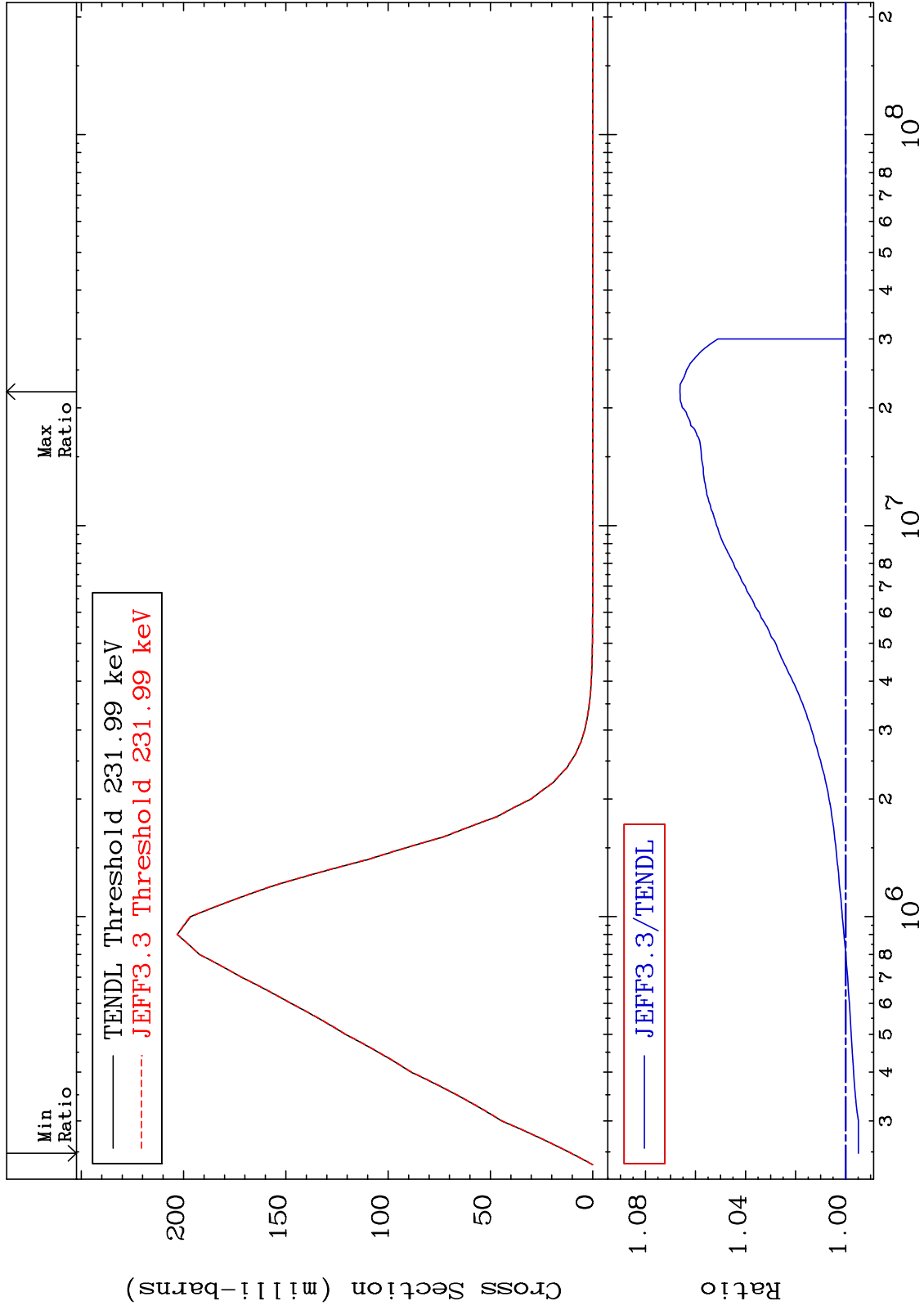
MAT 7034 MT= 56 (n,n') Level 70-Yb-171
 Cross Section -0.488 To 6.620 %



MAT 7034

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

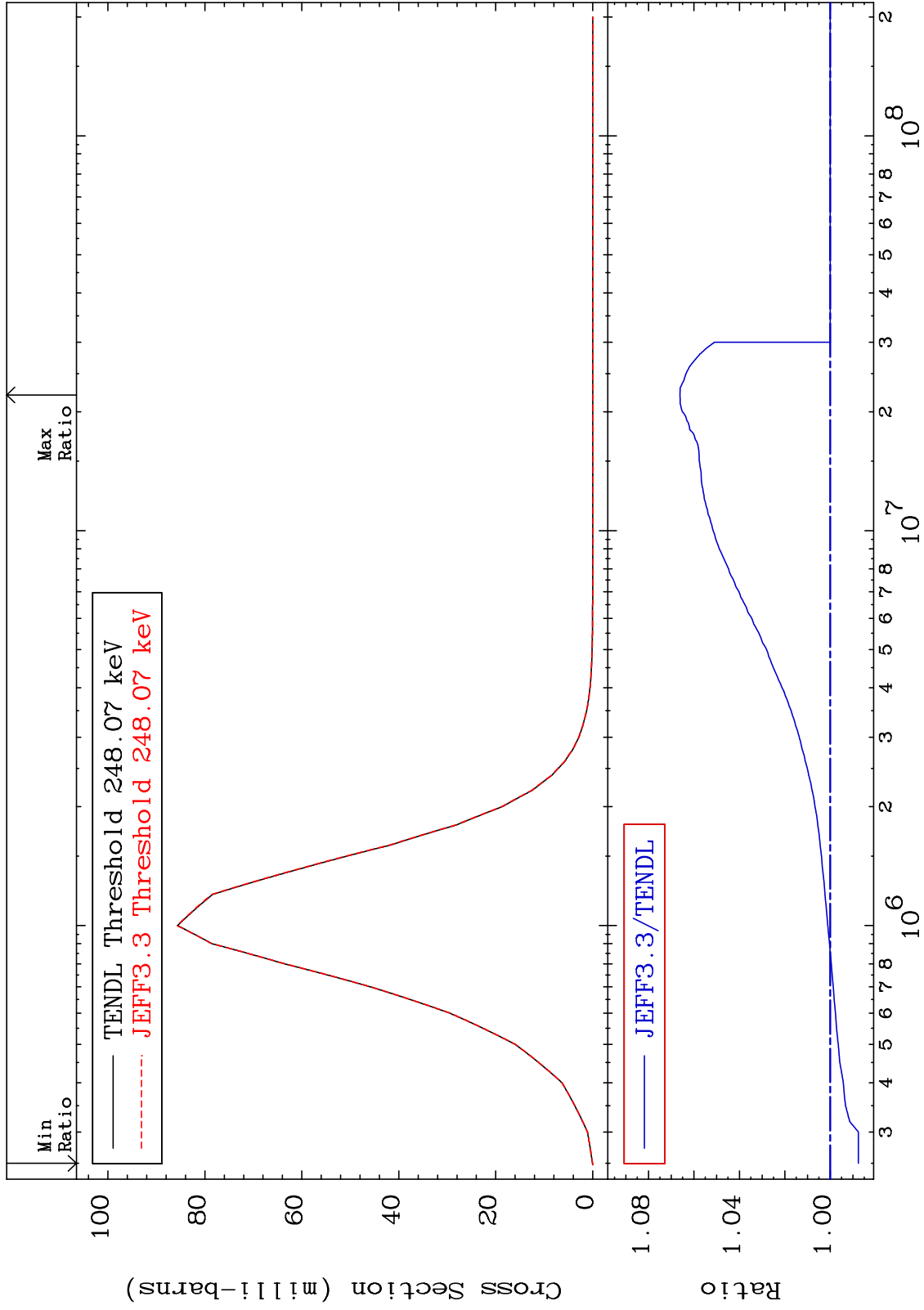
70-Yb-171
-0.510 To 6.619 %



MAT 7034

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

70-Yb-171
-1.244 To 6.616 %



27

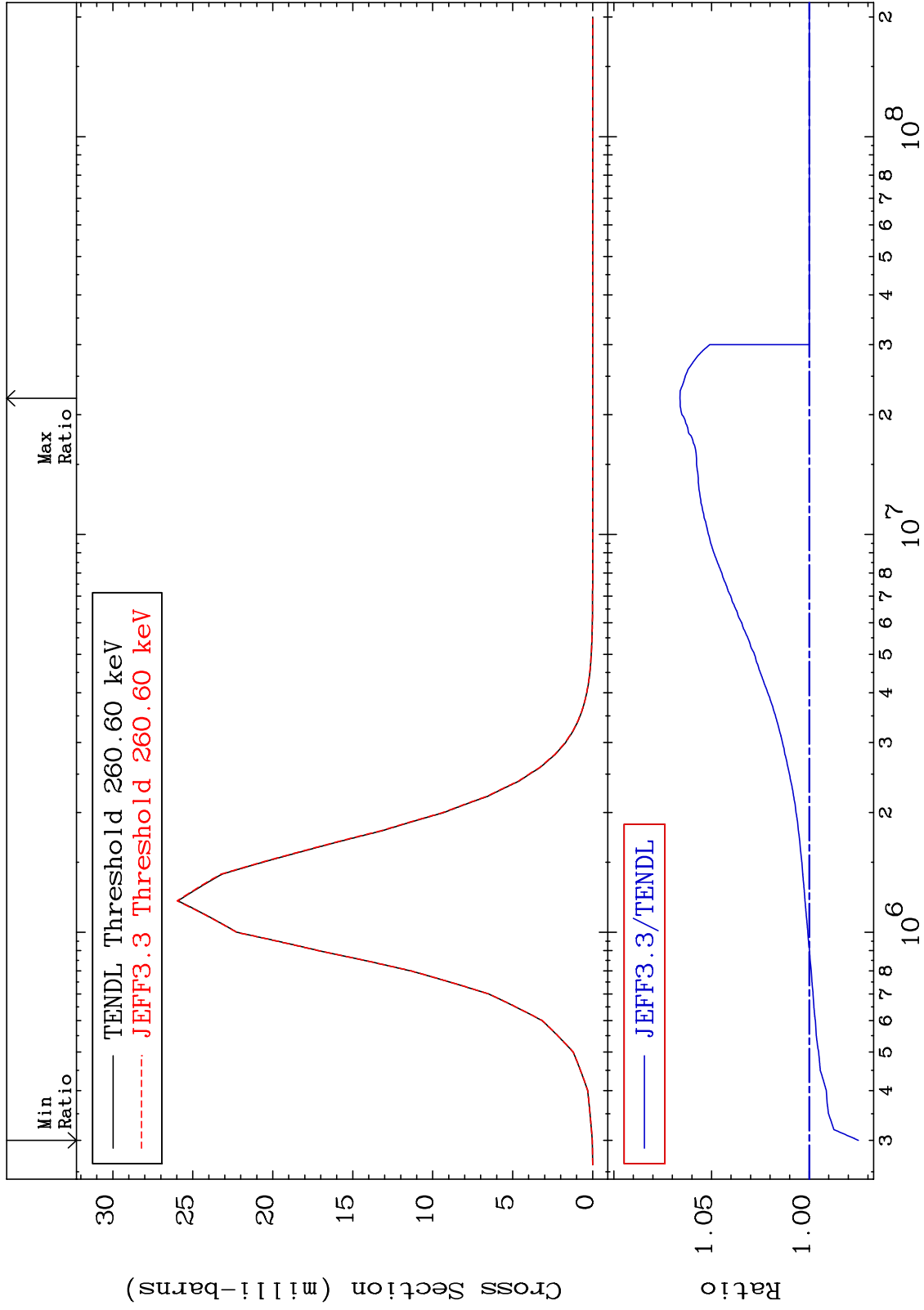
Incident Energy (eV)

70-Yb-171

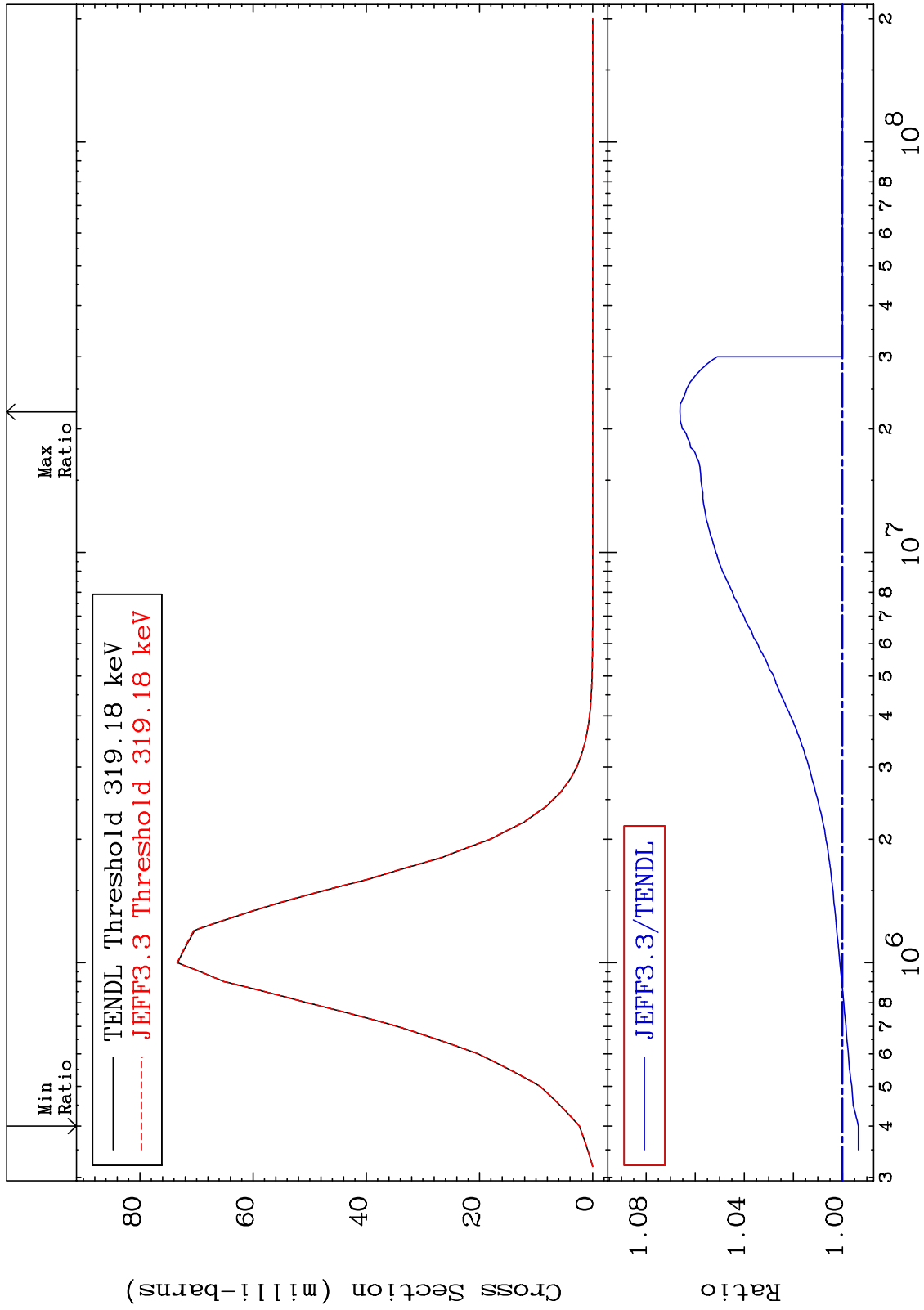
MAT 7034

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

70-Yb-171
-2.516 To 6.610 %



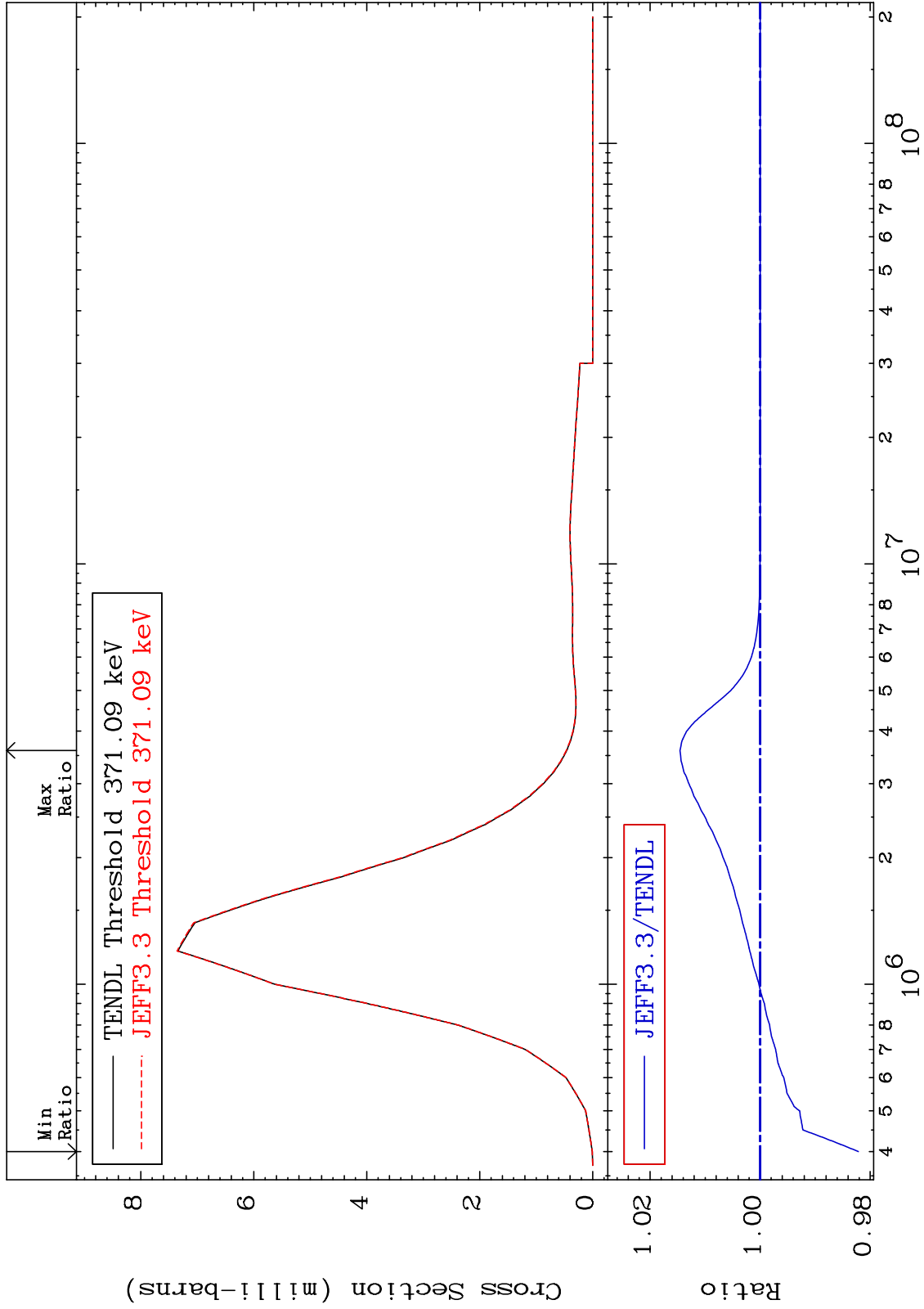
MAT 7034 MT= 60 (n,n') Level Cross Section -0.654 To 6.615 % 70-Yb-171



MAT 7034

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

70-Yb-171
-1.786 To 1.457 %

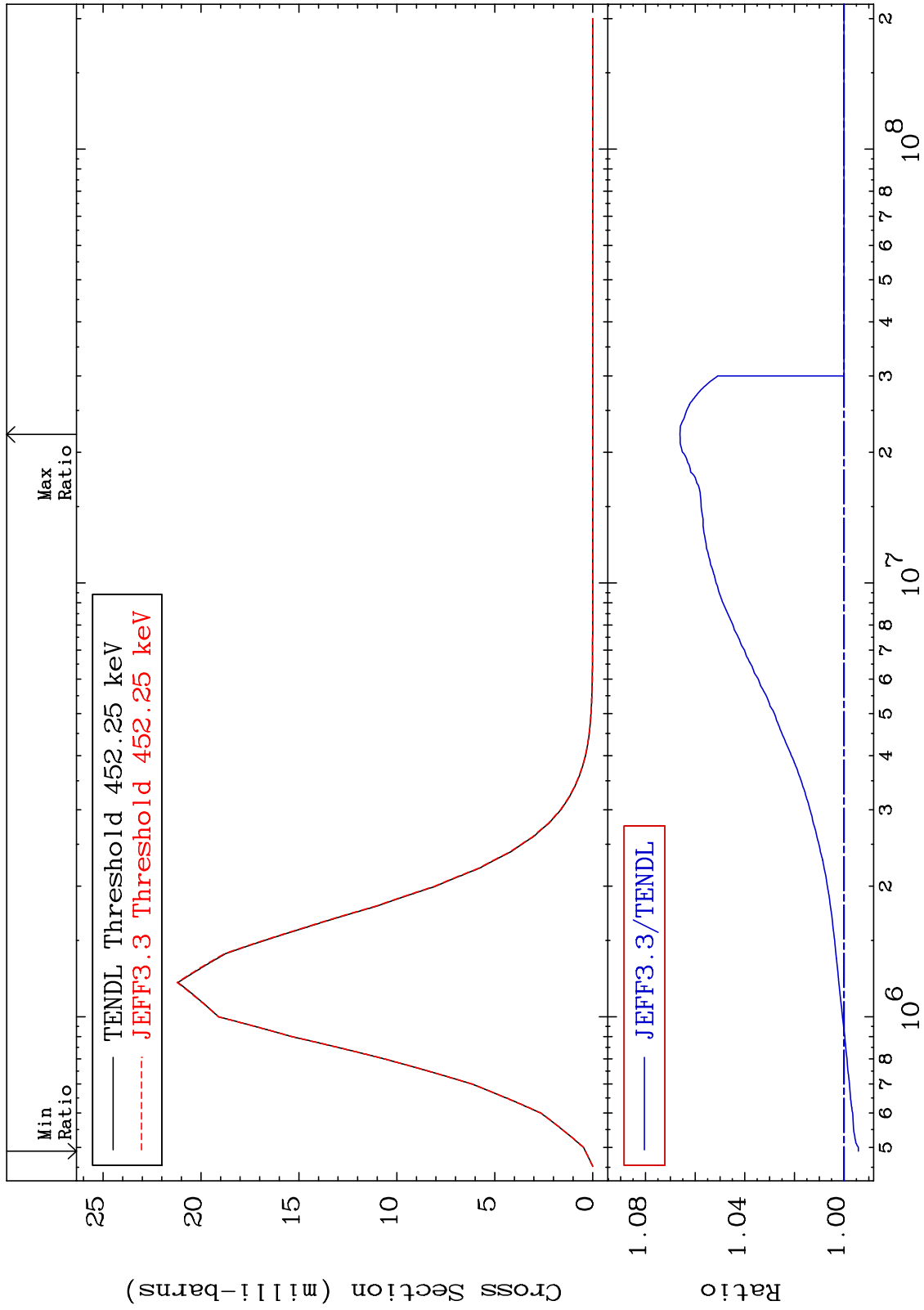


30

Incident Energy (eV)

70-Yb-171

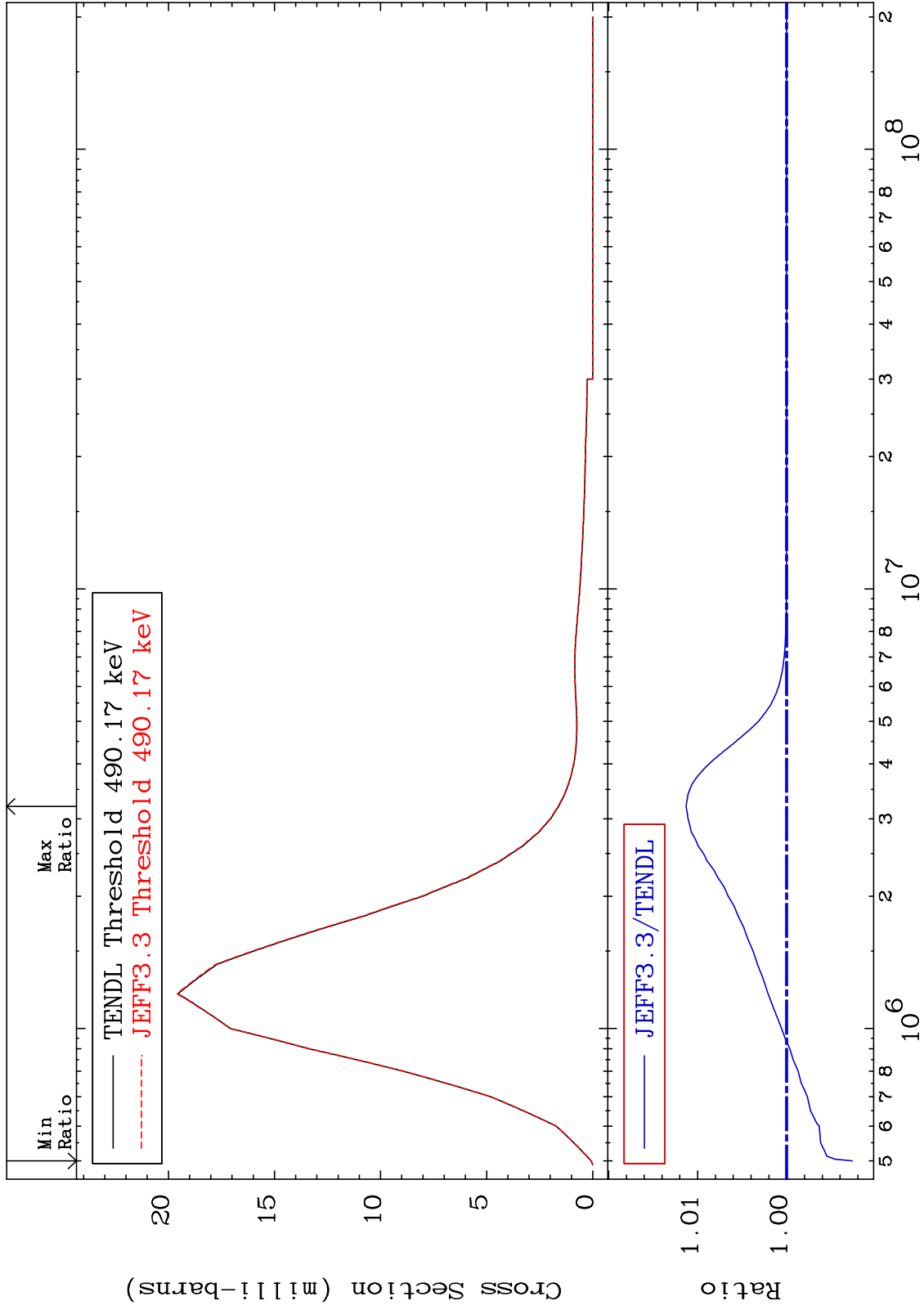
MAT 7034 MT= 62 (n,n') Level Cross Section -0.579 To 6.610 % 70-Yb-171



MAT 7034

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

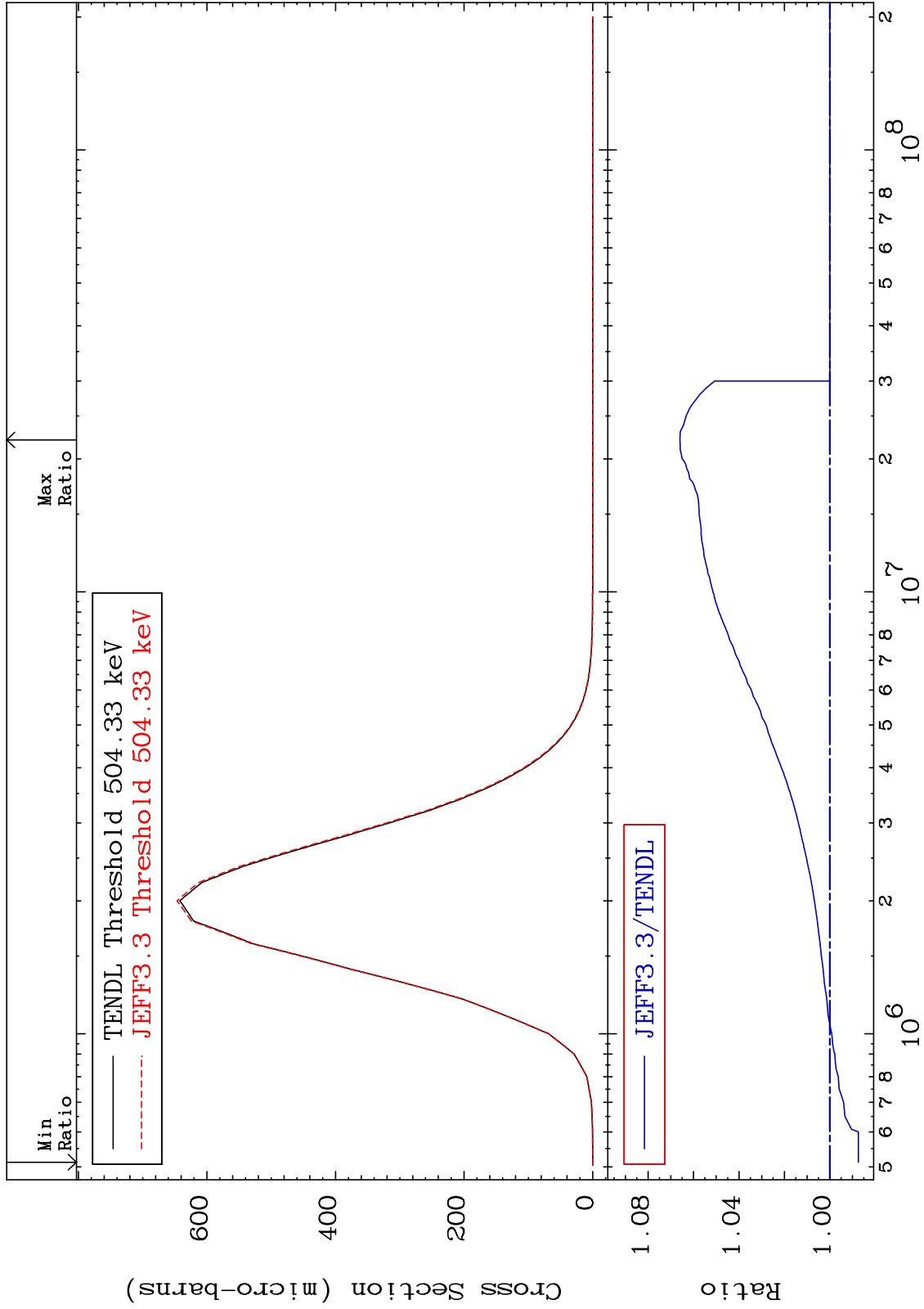
70-Yb-171
-0.737 To 1.129 %



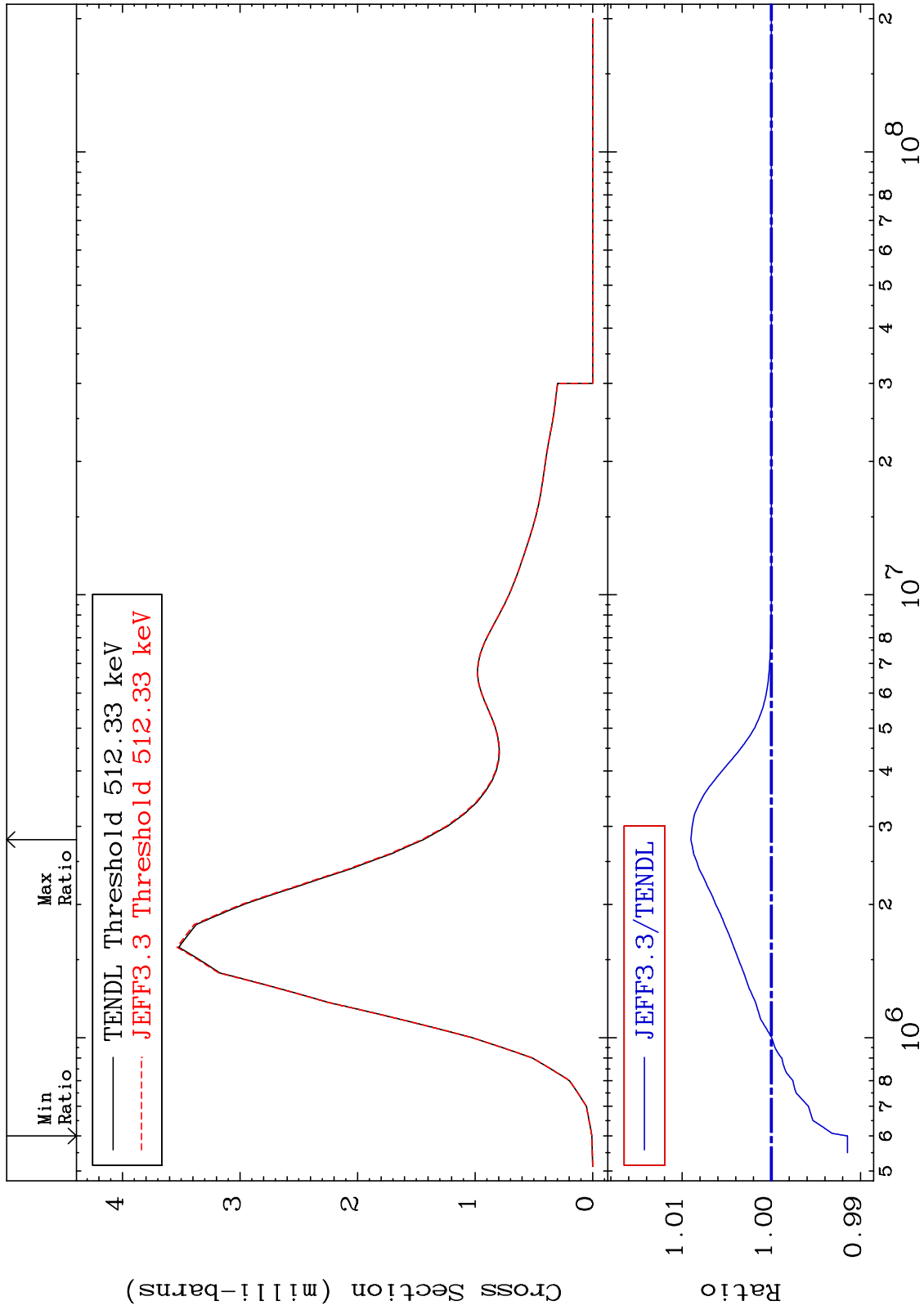
MAT 7034

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

70-Yb-171
-1.260 To 6.596 %



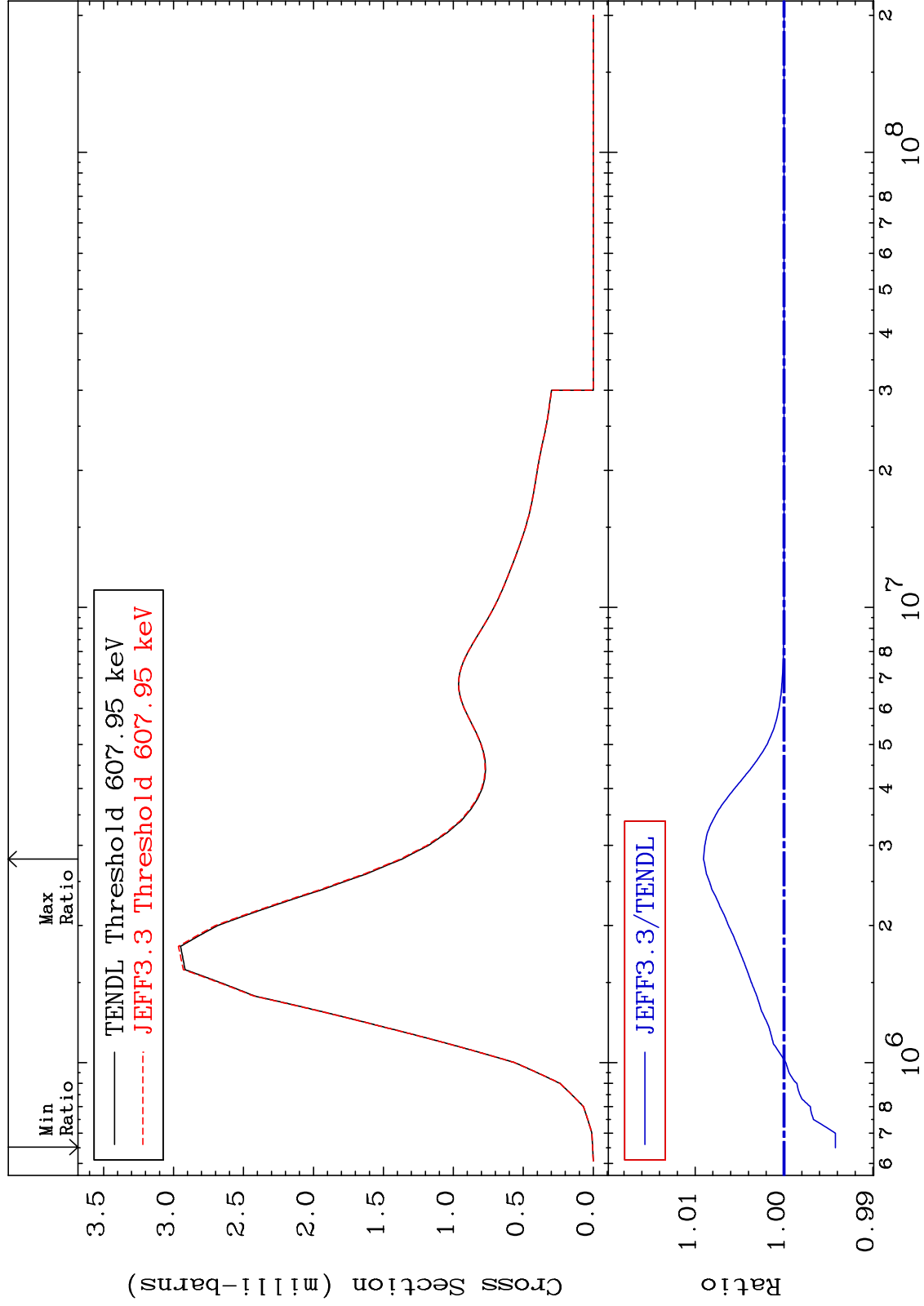
MAT 7034 MT= 65 (n,n') Level
Cross Section 70-Yb-171
-0.853 To 0.902 %



MAT 7034

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

70-Yb-171
-0.578 To 0.905 %



35

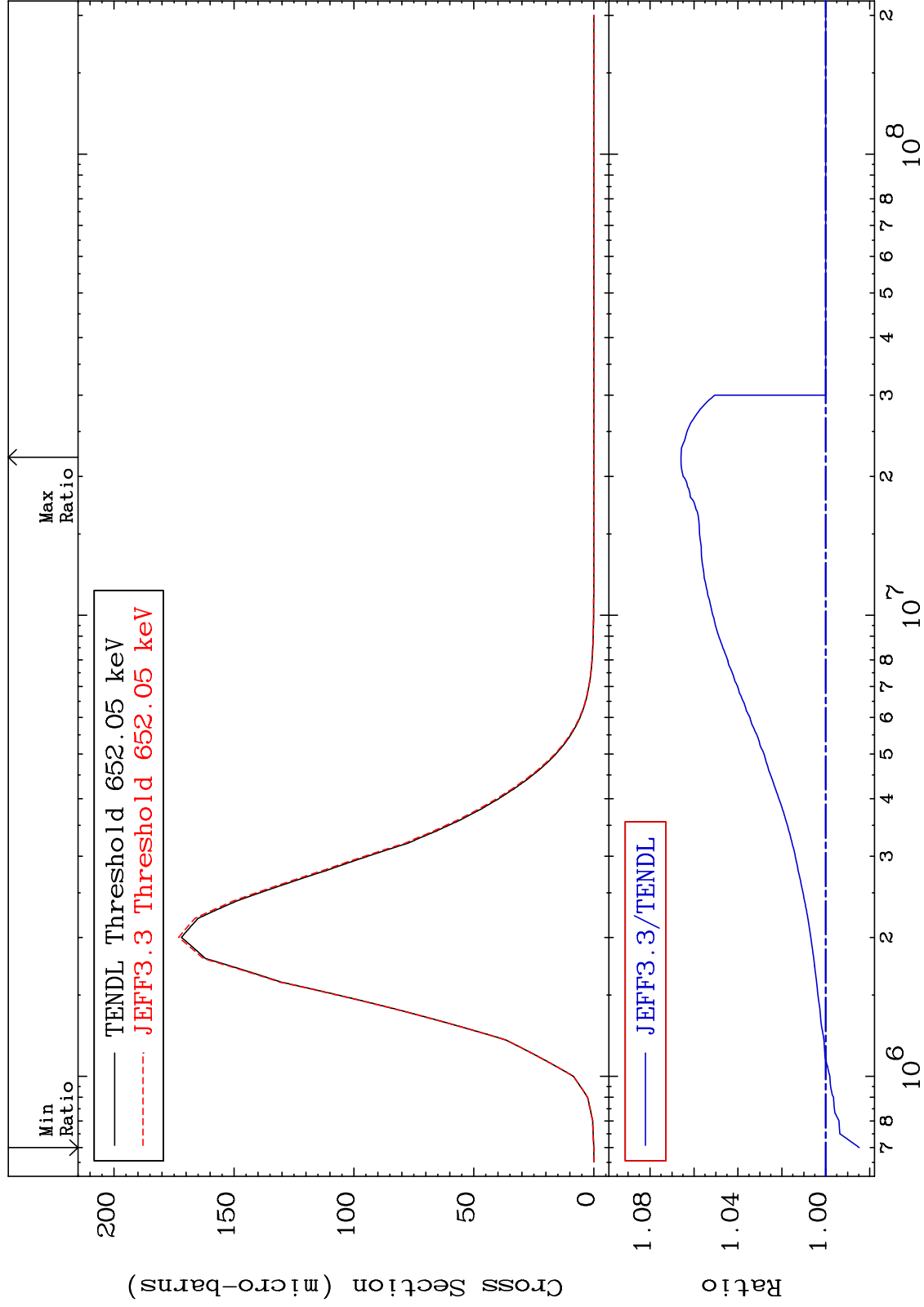
Incident Energy (eV)

70-Yb-171

MAT 7034

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

70-Yb-171
-1.526 To 6.588 %



36

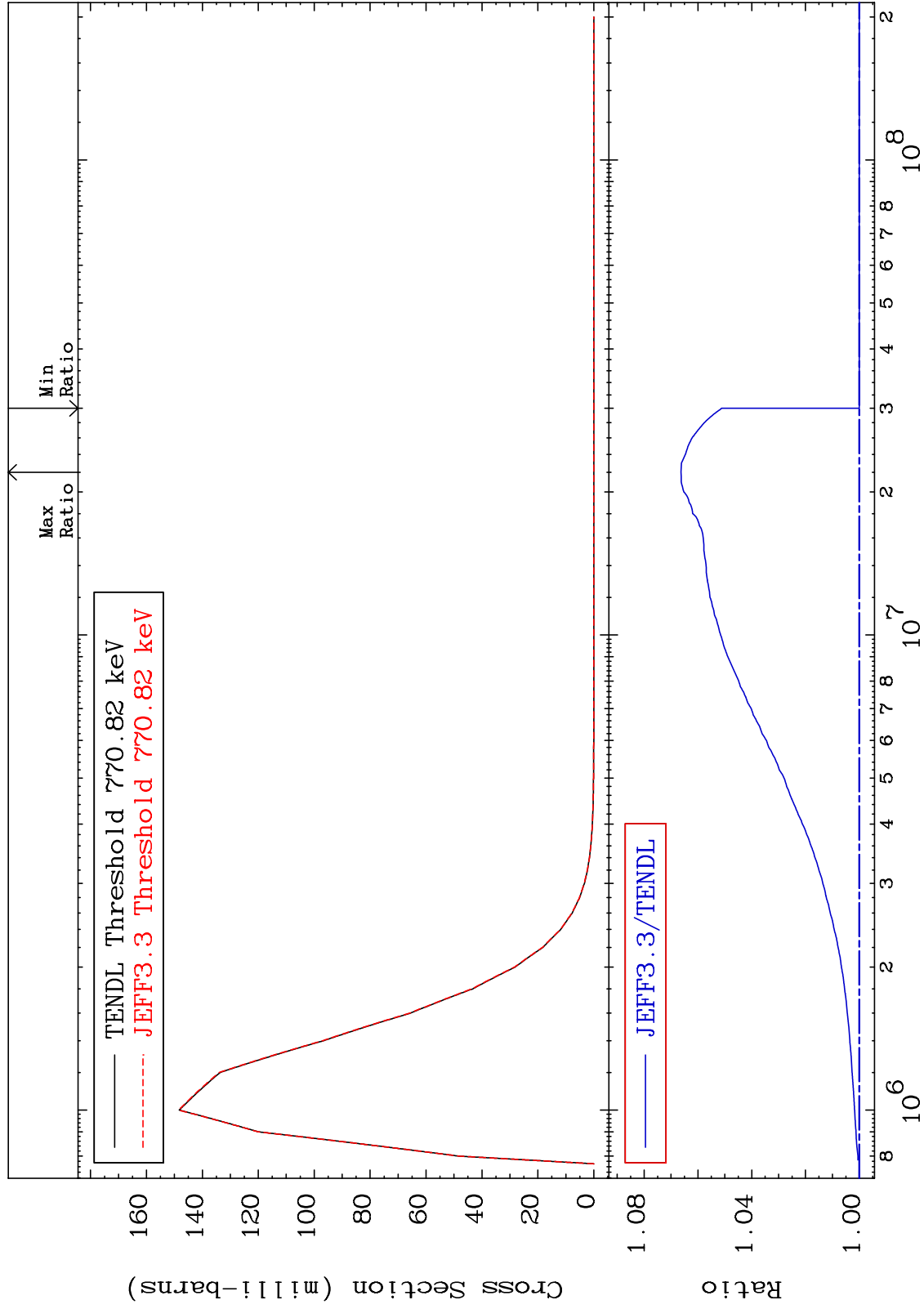
Incident Energy (eV)

70-Yb-171

MAT 7034

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

70-Yb-171
0.000 To 6.627 %



37

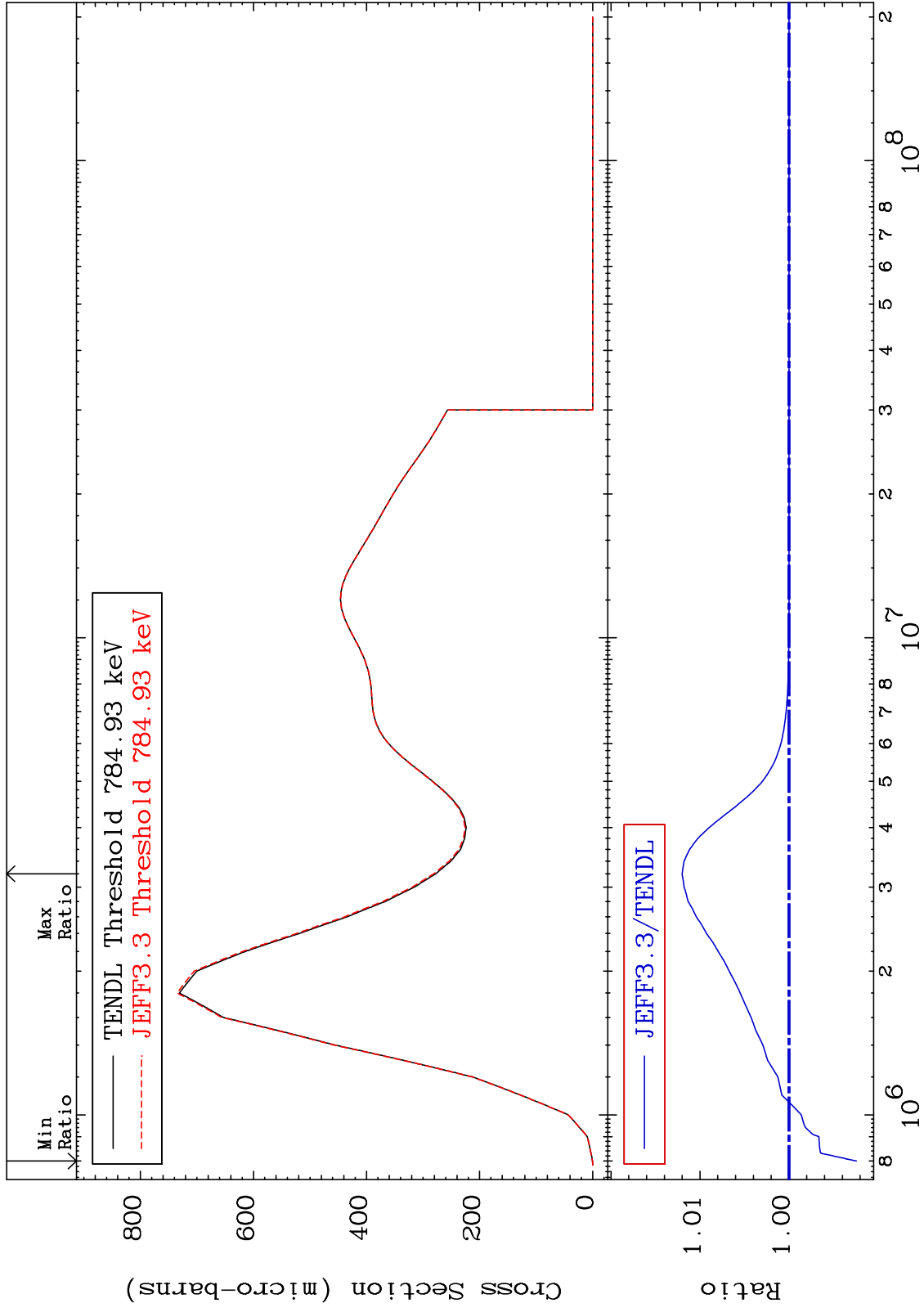
Incident Energy (eV)

70-Yb-171

MAT 7034

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

70-Yb-171
-0.757 To 1.201 %



38

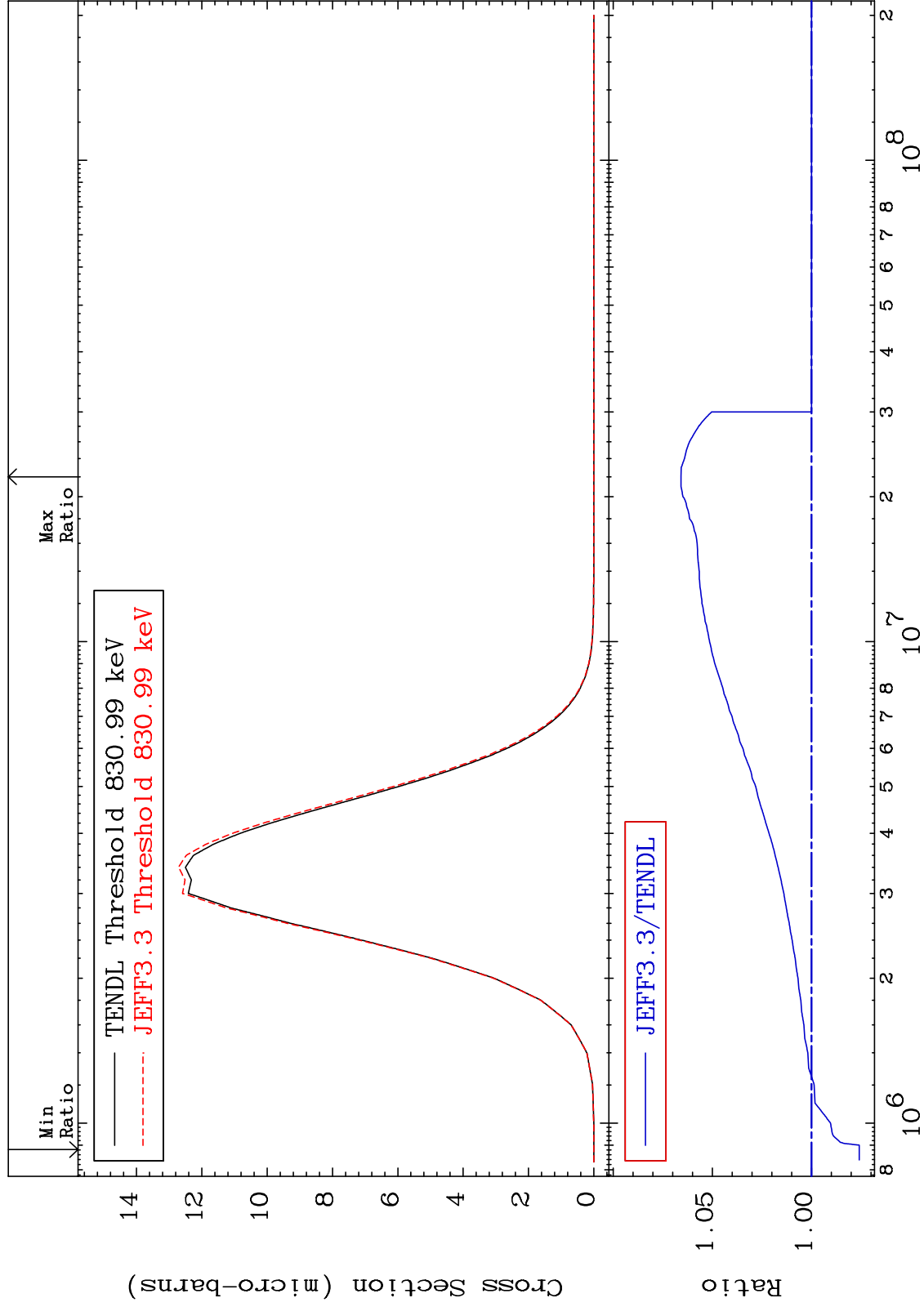
Incident Energy (eV)

70-Yb-171

MAT 7034

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

70-Yb-171
-2.414 To 6.579 %



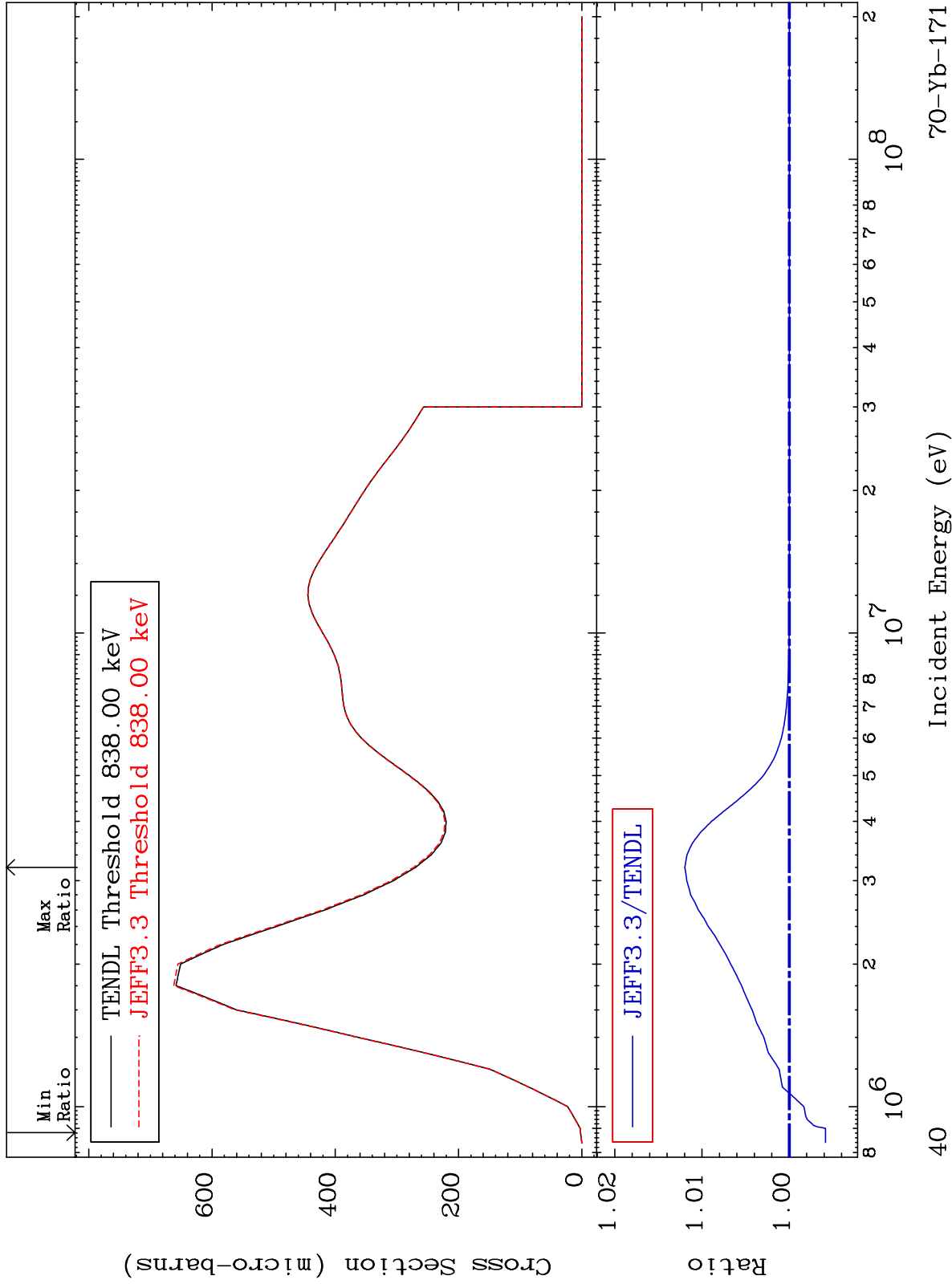
39

70-Yb-171

MAT 7034

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

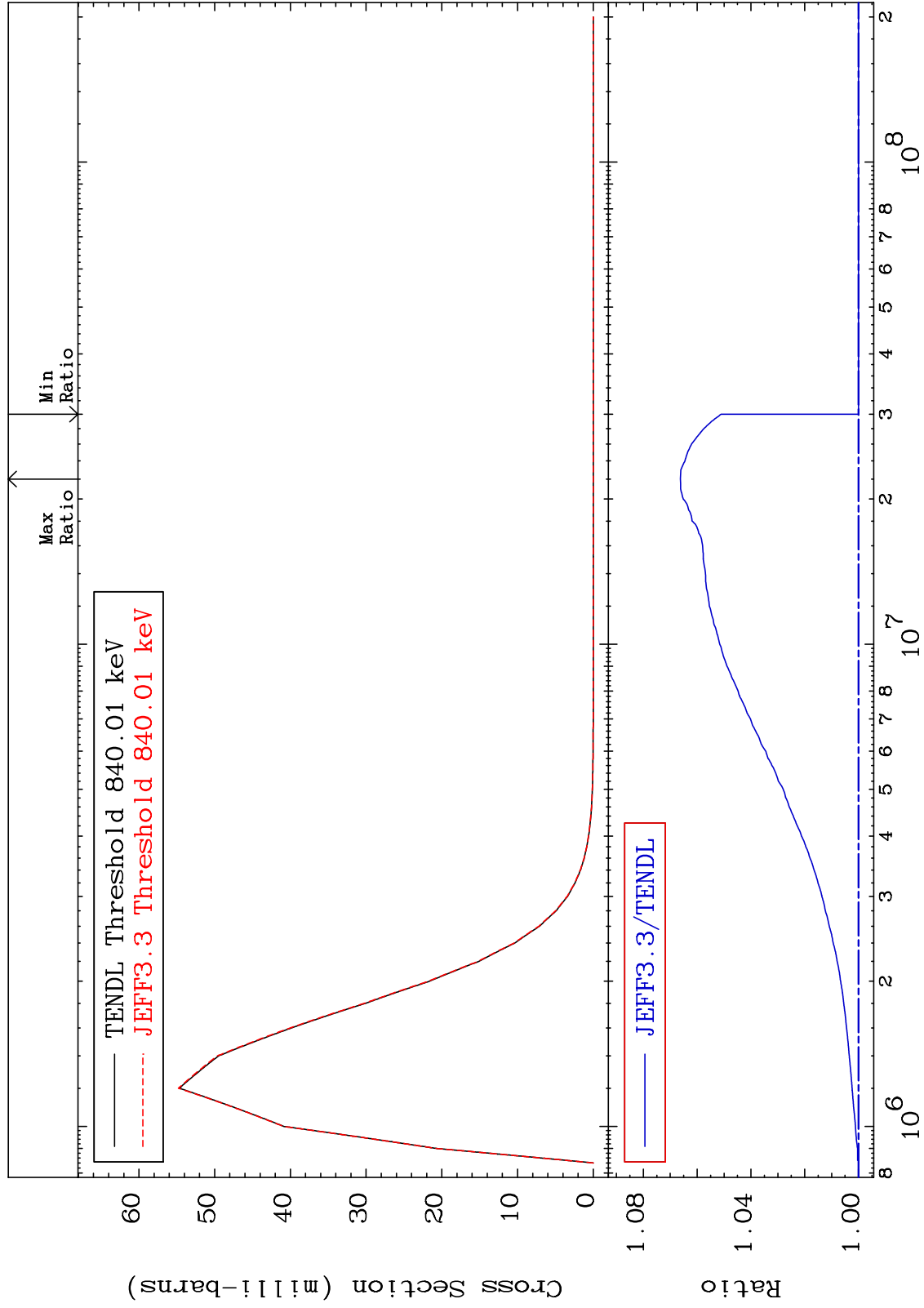
70-Yb-171
-0.415 To 1.197 %



MAT 7034

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

70-Yb-171
0.000 To 6.621 %



41

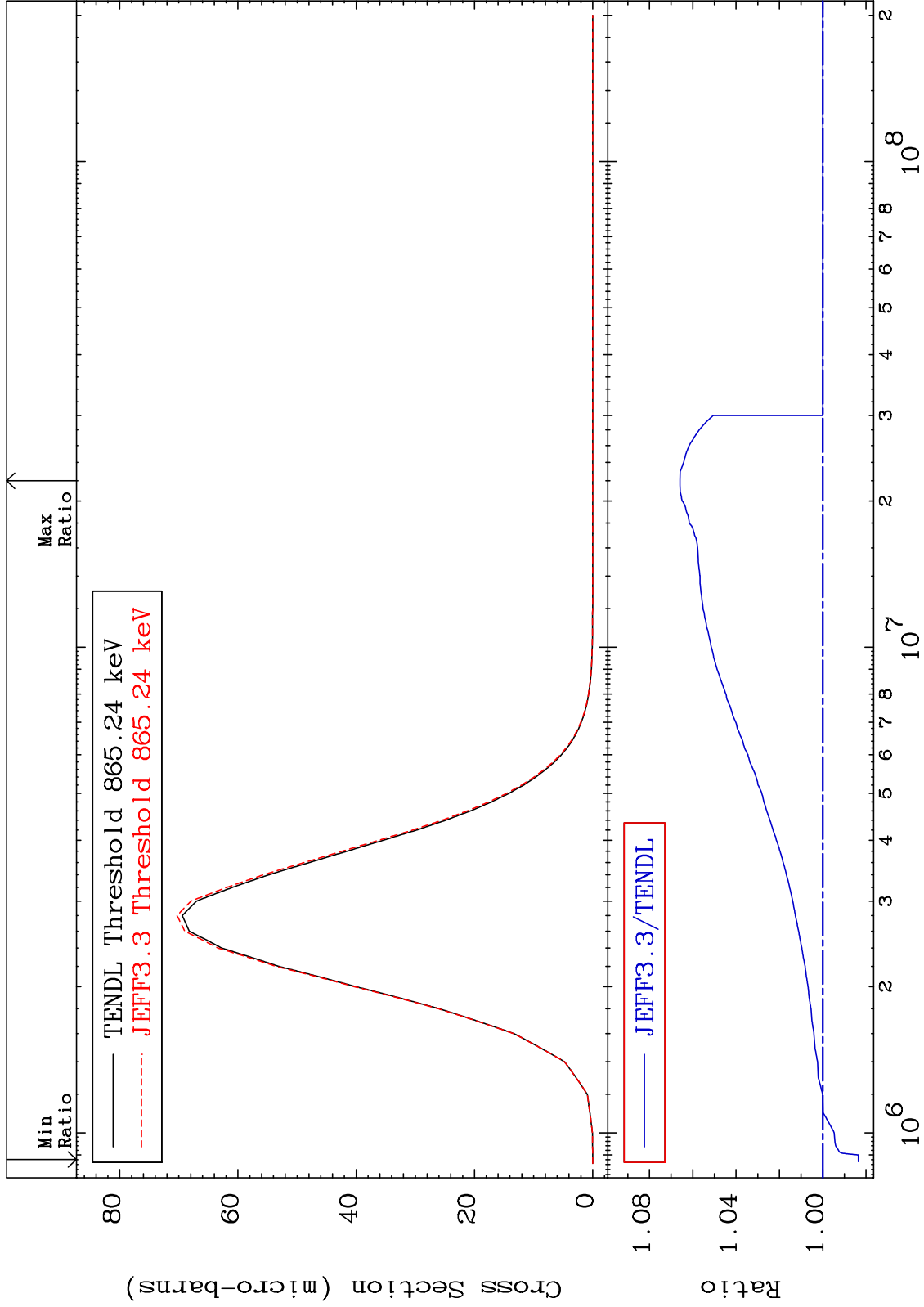
Incident Energy (eV)

70-Yb-171

MAT 7034

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

70-Yb-171
-1.645 To 6.588 %



42

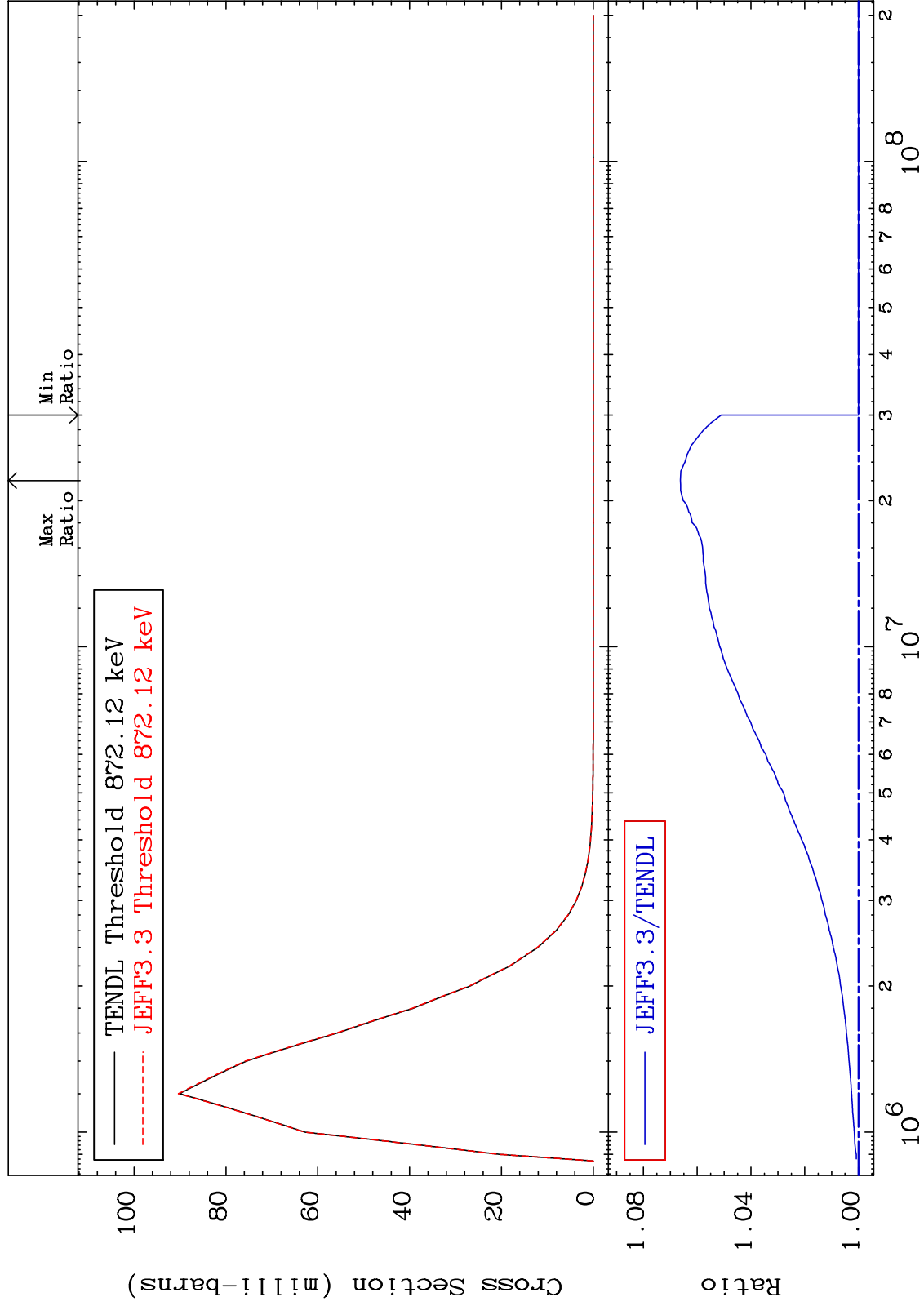
Incident Energy (eV)

70-Yb-171

MAT 7034

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

70-Yb-171
0.000 To 6.624 %



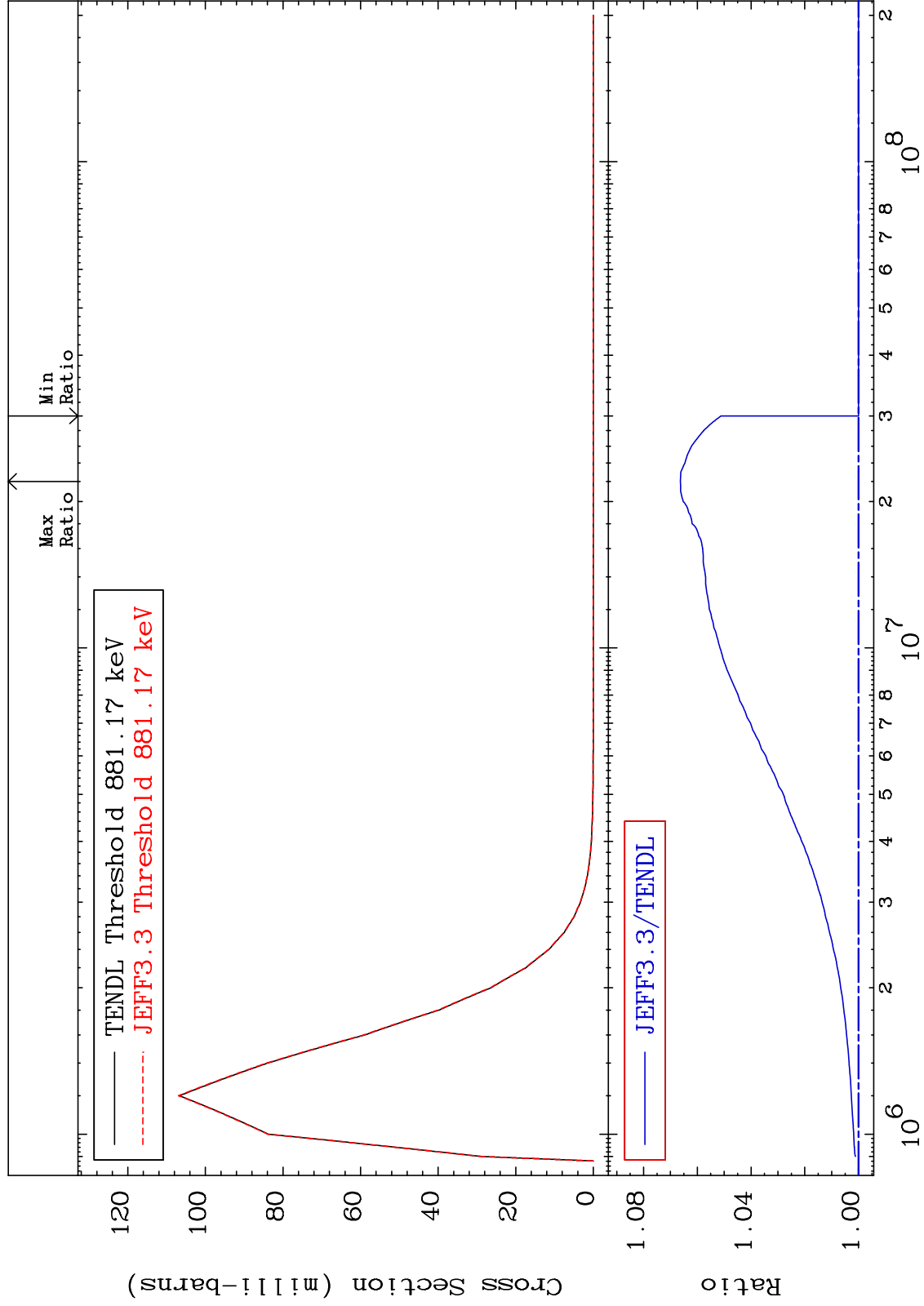
43

70-Yb-171

MAT 7034

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

70-Yb-171
0.000 To 6.627 %



Incident Energy (eV)

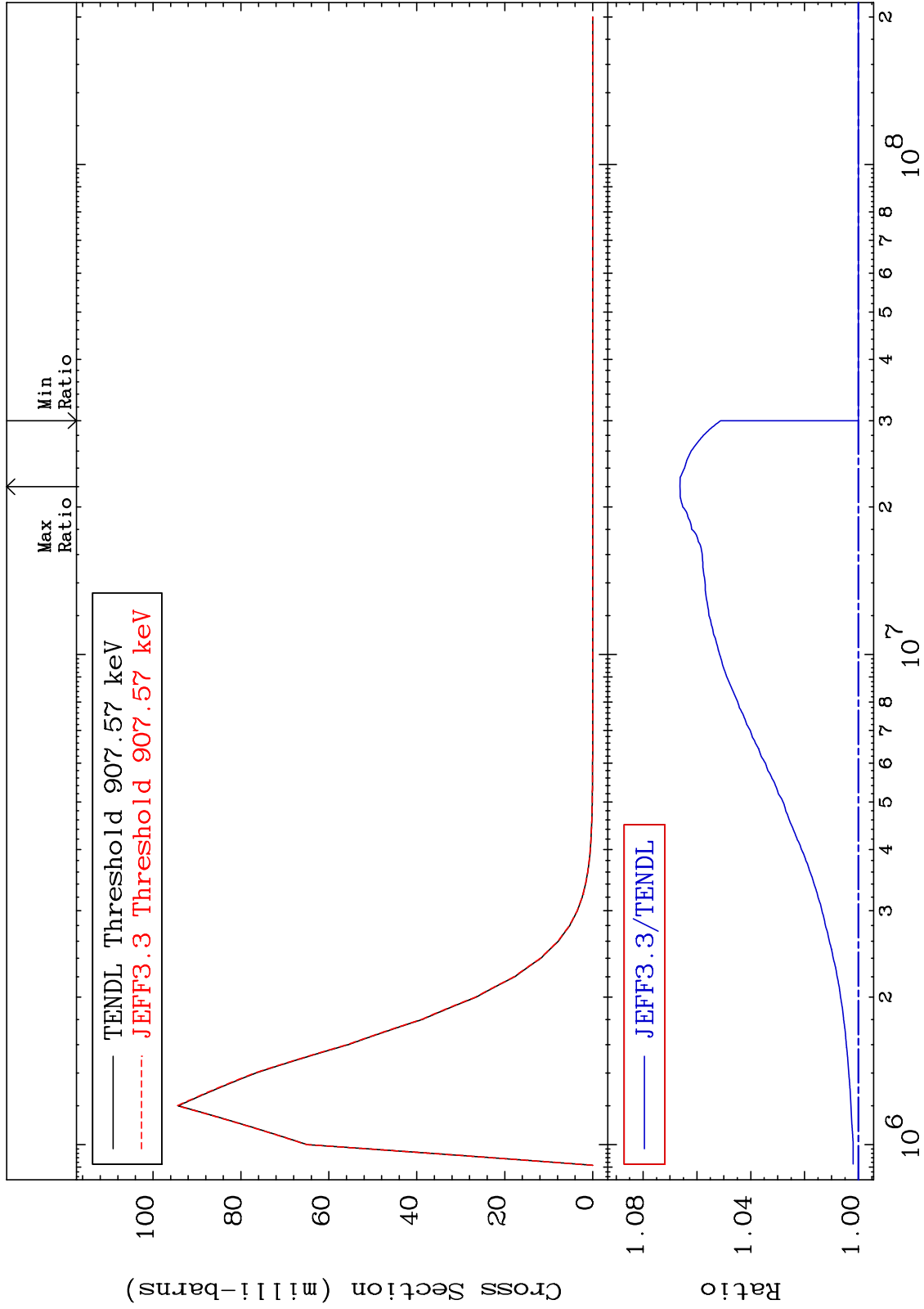
70-Yb-171

44

MAT 7034

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

70-Yb-171
0.000 To 6.628 %



45

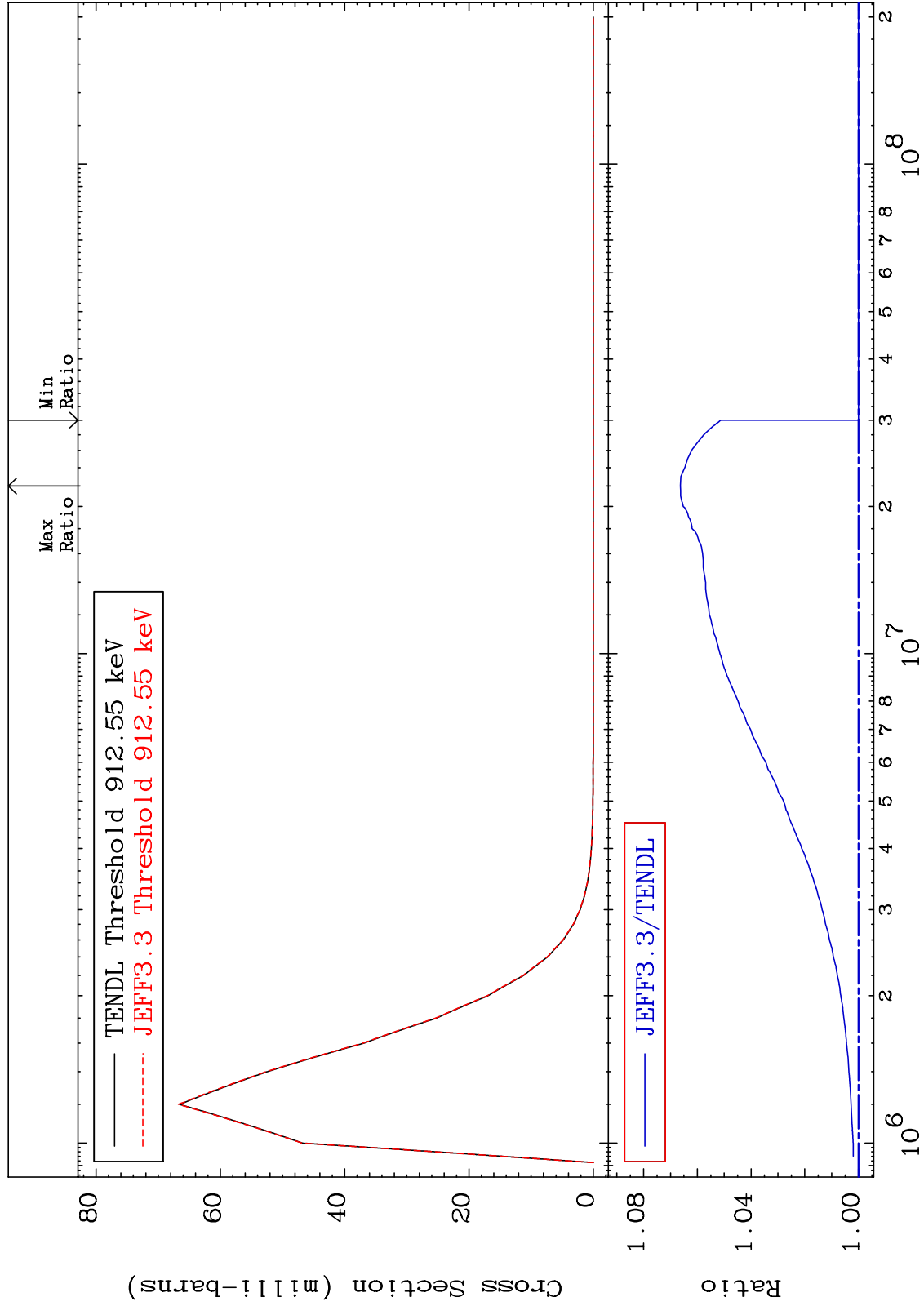
Incident Energy (eV)

70-Yb-171

MAT 7034

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

70-Yb-171
0.000 To 6.630 %

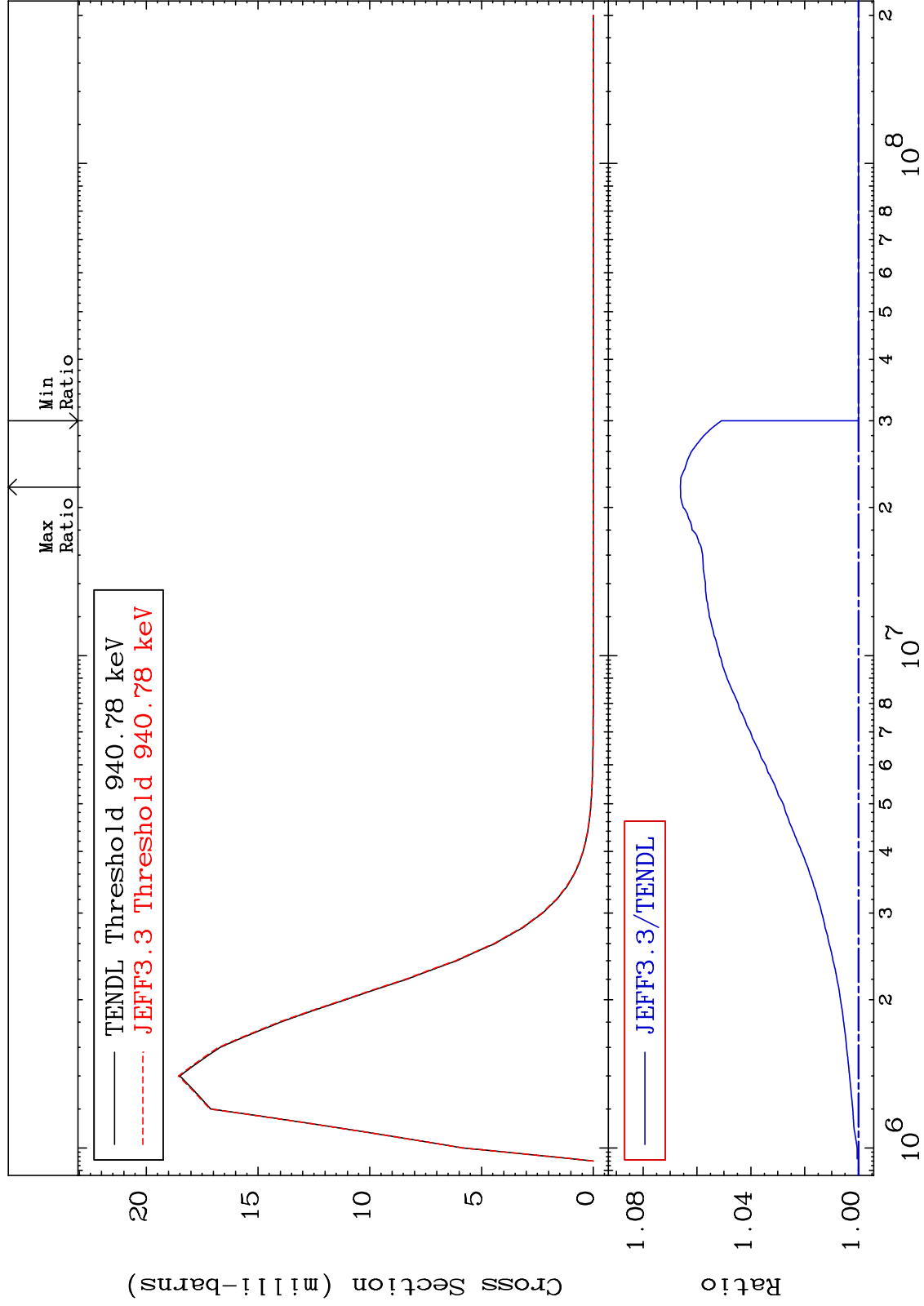


46 70-Yb-171

MAT 7034

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

70-Yb-171
0.000 To 6.616 %



Incident Energy (eV)

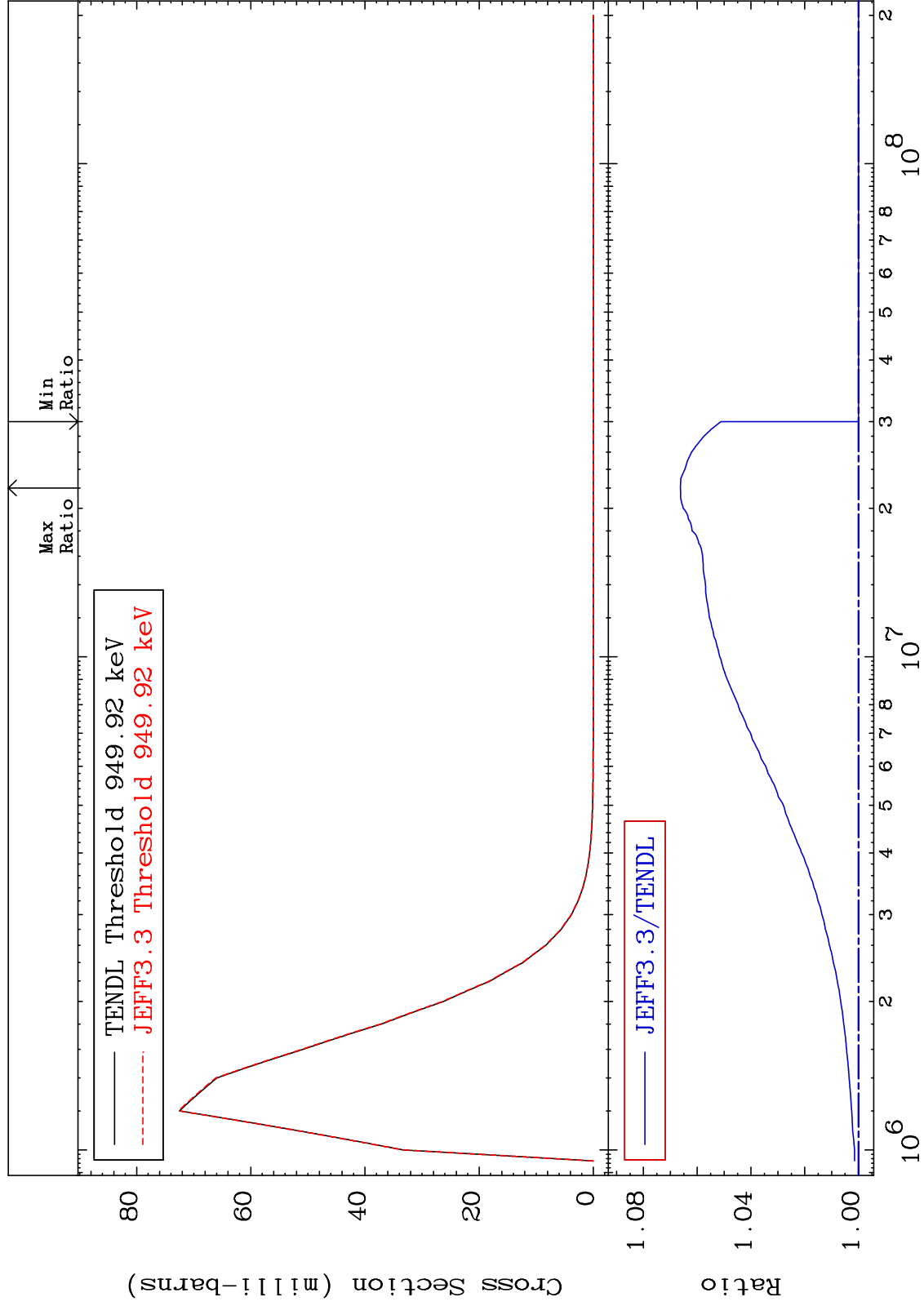
70-Yb-171

47

MAT 7034

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

70-Yb-171
0.000 To 6.624 %



Incident Energy (eV)

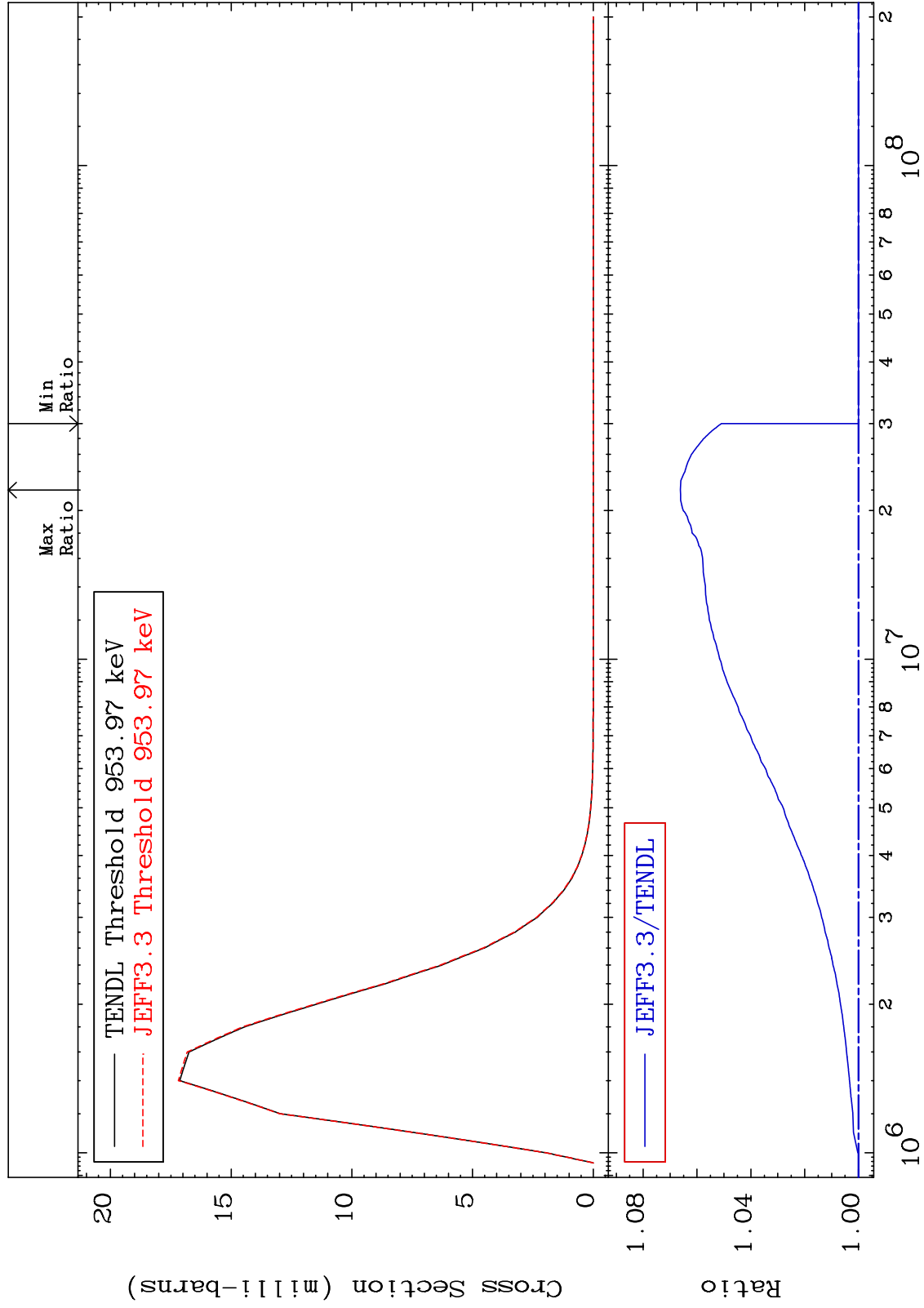
70-Yb-171

48

MAT 7034

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

70-Yb-171
0.000 To 6.616 %



Incident Energy (eV)

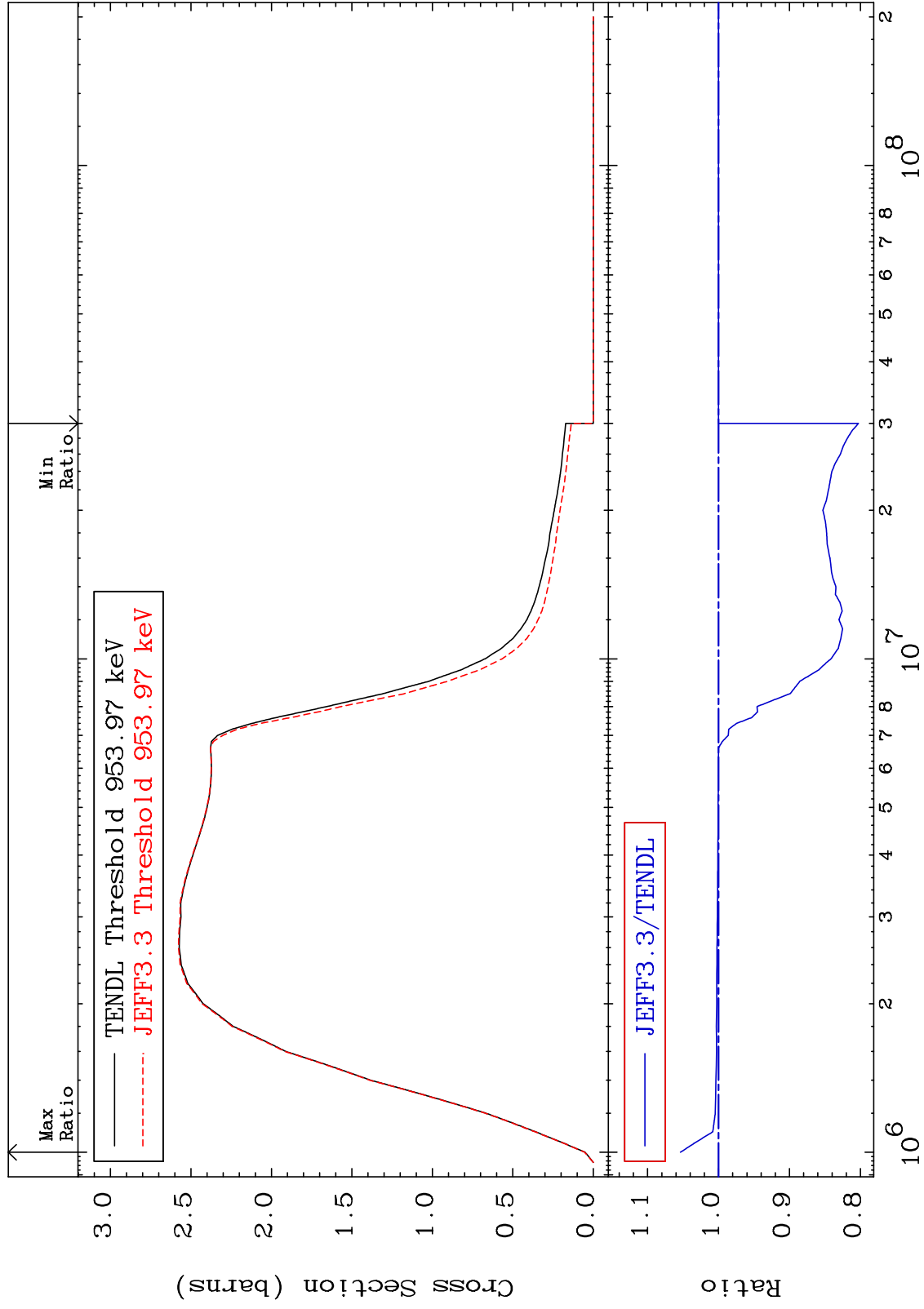
70-Yb-171

49

MAT 7034

(n, n') Continuum
Cross Section

70-Yb-171
-19.73 To 5.371 %



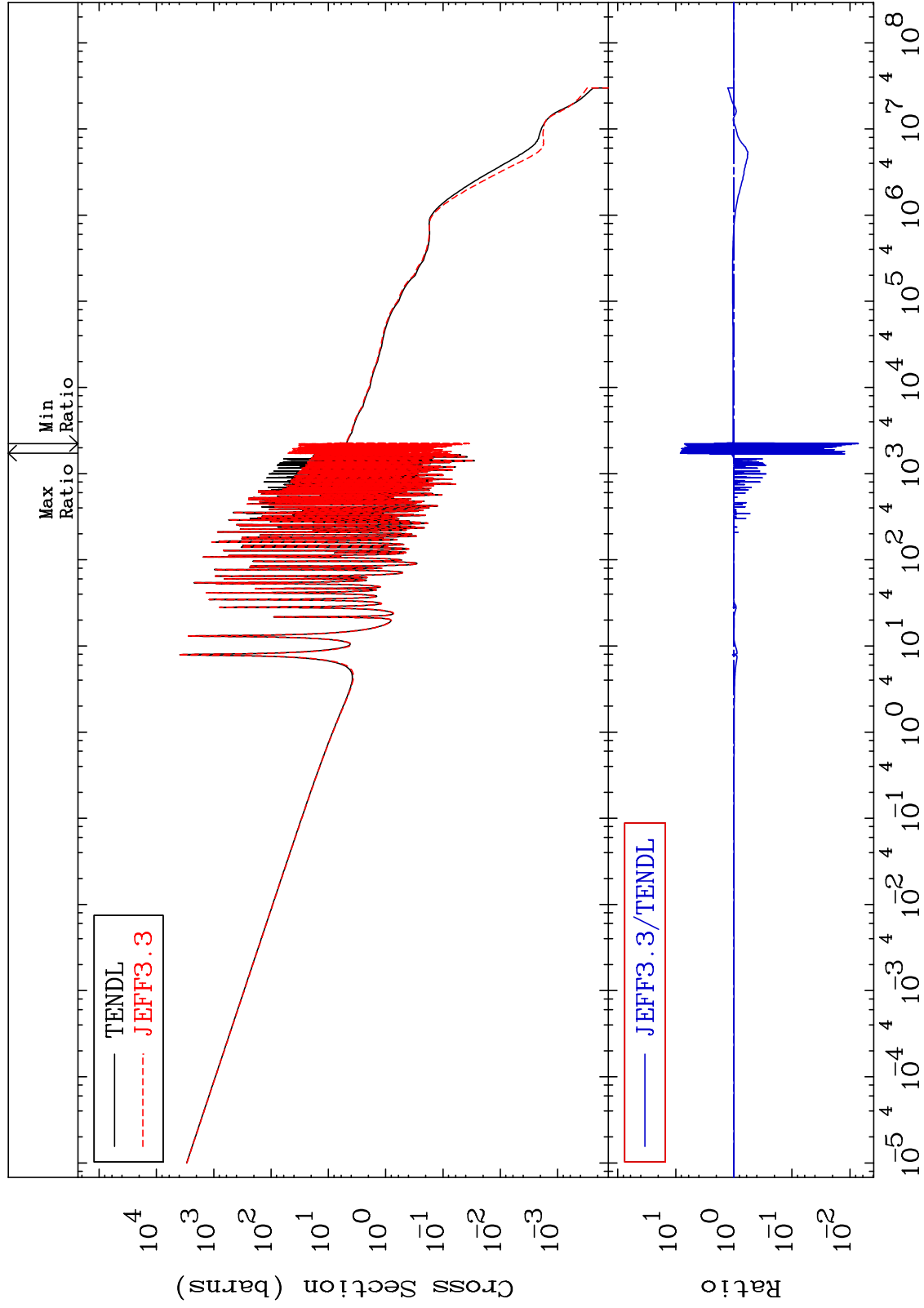
70-Yb-171

50

MAT 7034

(n, γ)
Cross Section

70-Yb-171
-99.29 To 728.6 %



51

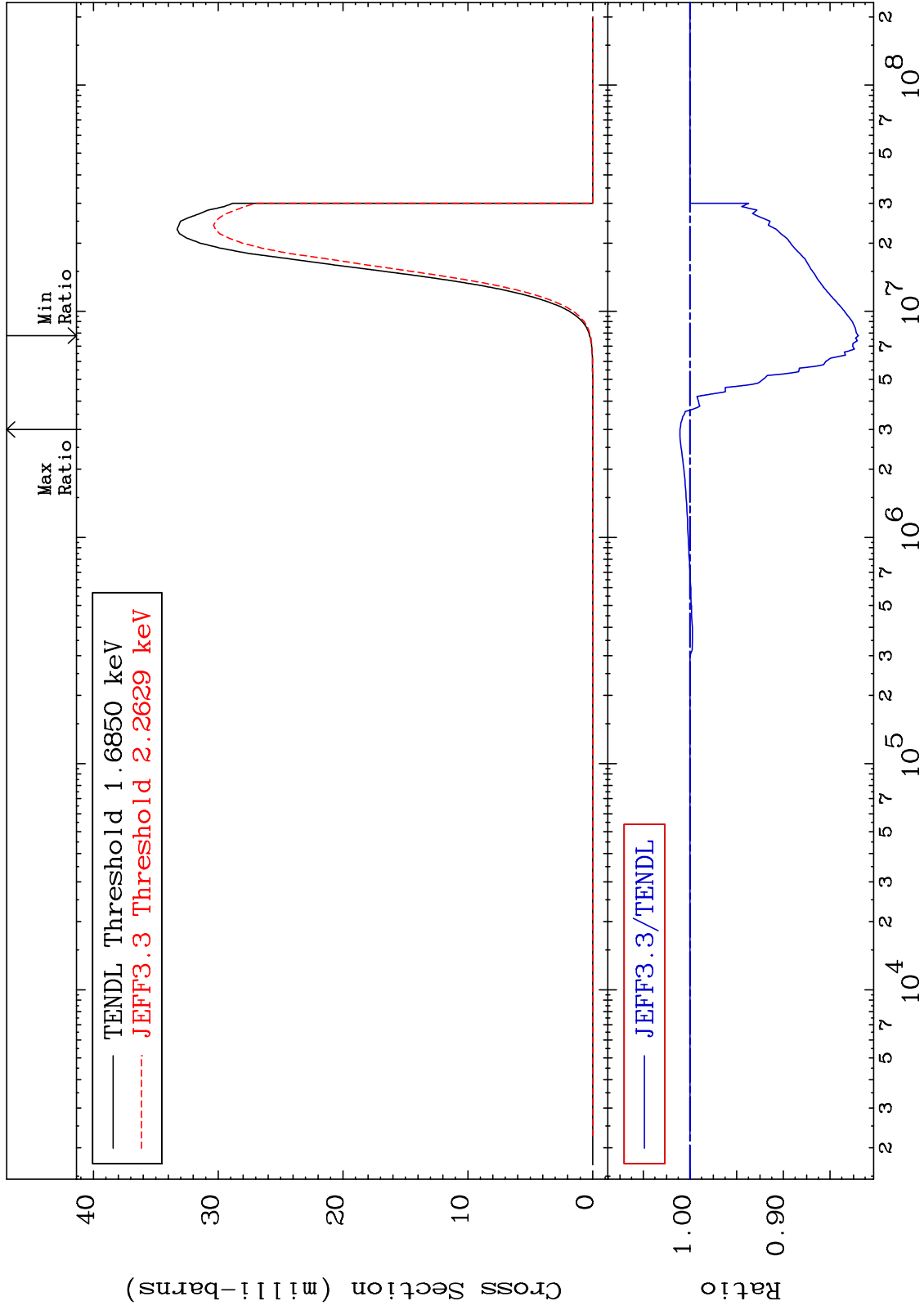
Incident Energy (eV)

70-Yb-171

MAT 7034

(n, p)
Cross Section

70-Yb-171
-18.03 To 1.064 %



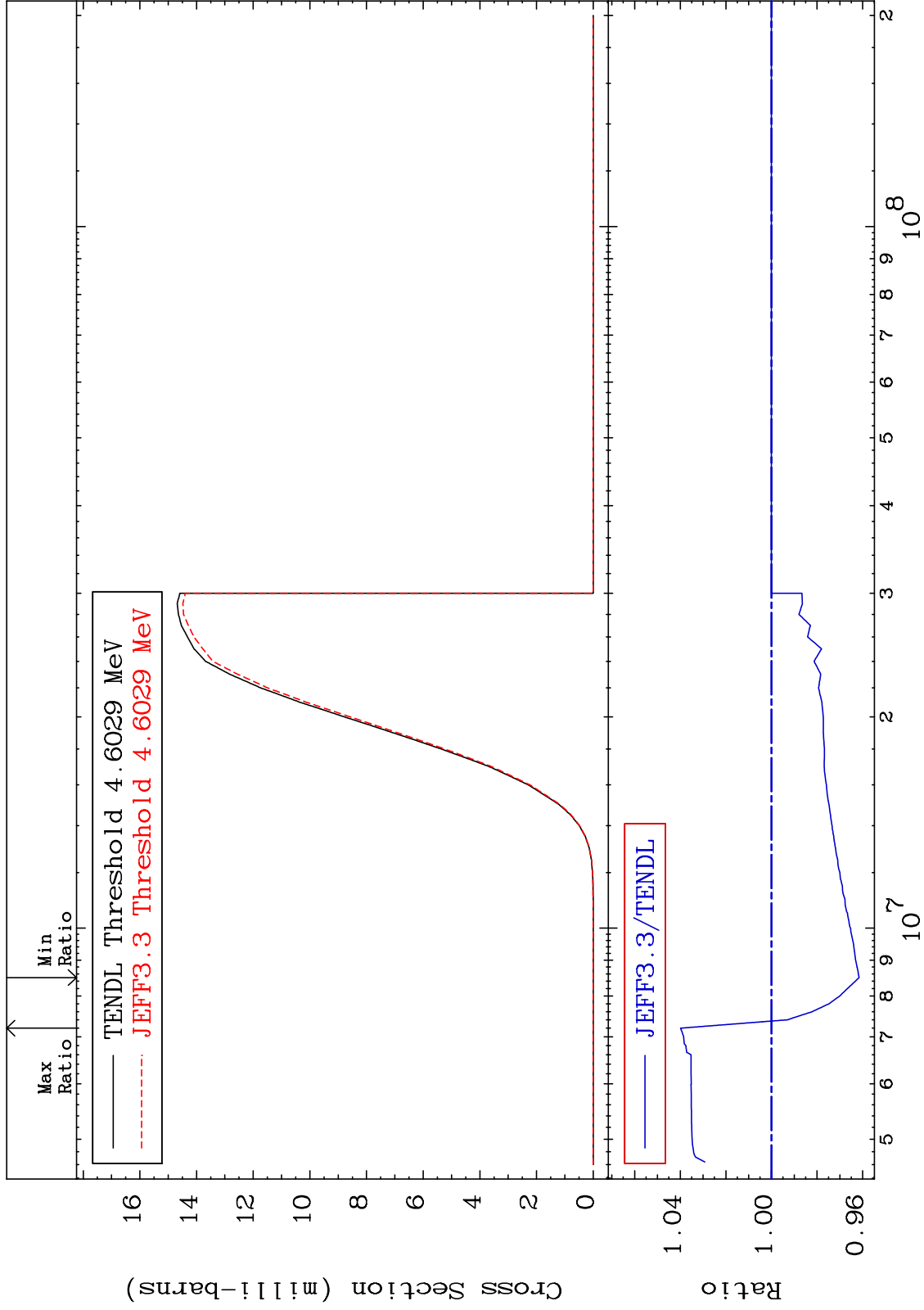
MAT 7034

(n, d)

70-Yb-171

Cross Section

-3.846 To 3.984 %



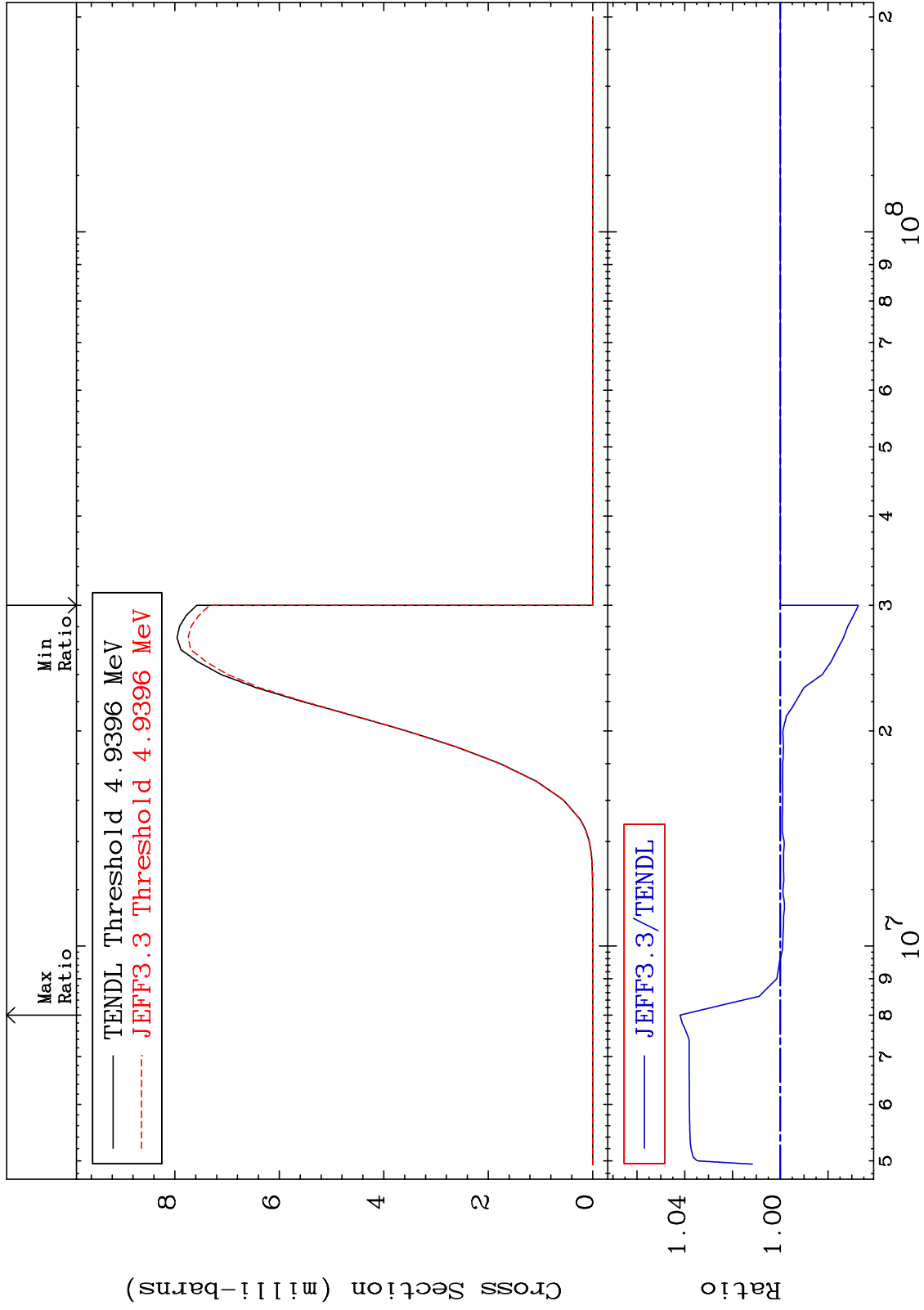
MAT 7034

(n, t)

70-Yb-171

Cross Section

-3.273 To 4.196 %



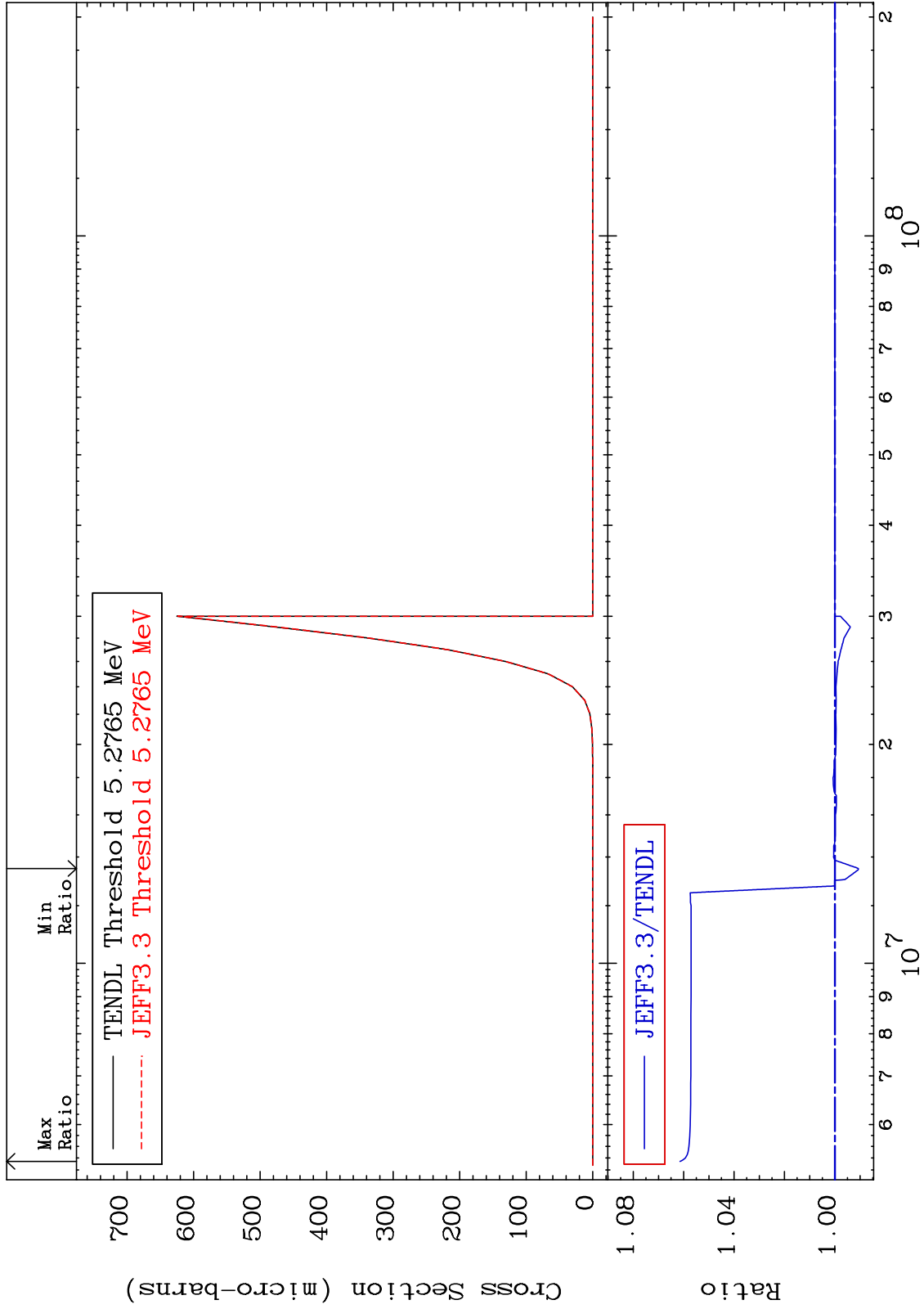
MAT 7034

(n, He-3)

70-Yb-171

Cross Section

-0.933 To 6.145 %



55

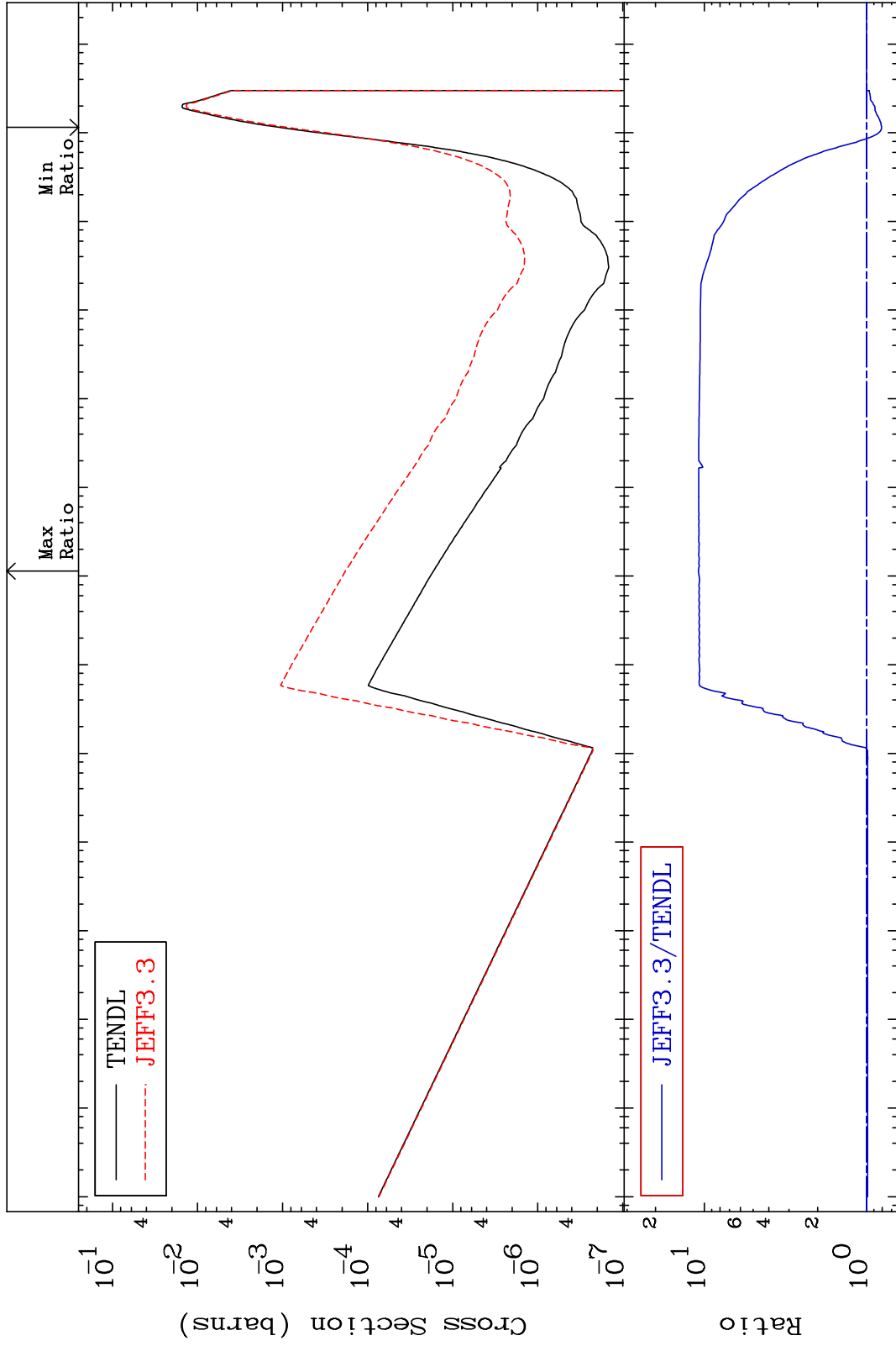
Incident Energy (eV)

70-Yb-171

MAT 7034

(n, α)
Cross Section

70-Yb-171
-19.30 To 988.7 %



Incident Energy (eV)
70-Yb-171

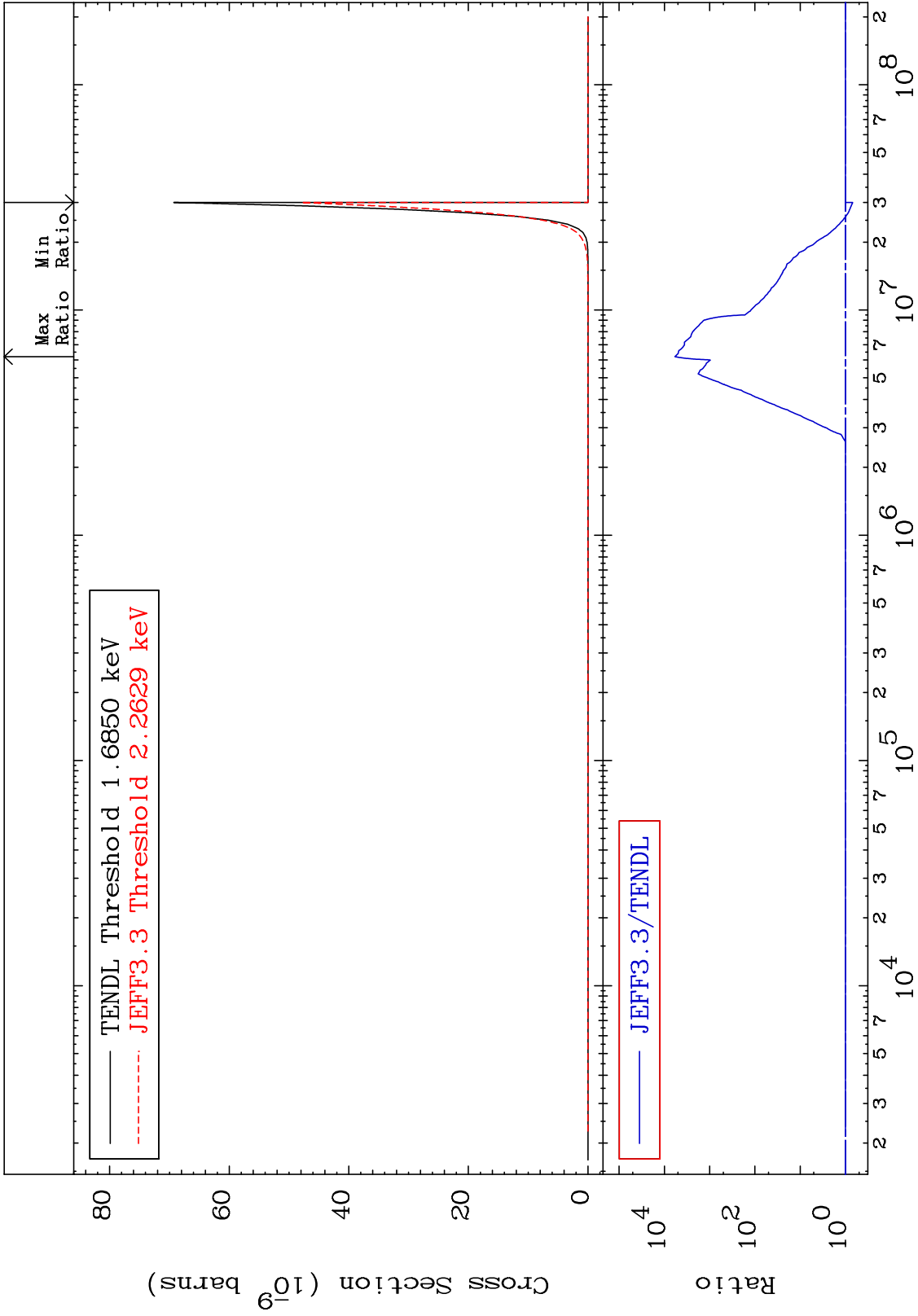
MAT 7034

(n, 2α)

70-Yb-171

Cross Section

-30.74 To 9999. %



57

Incident Energy (eV)

70-Yb-171

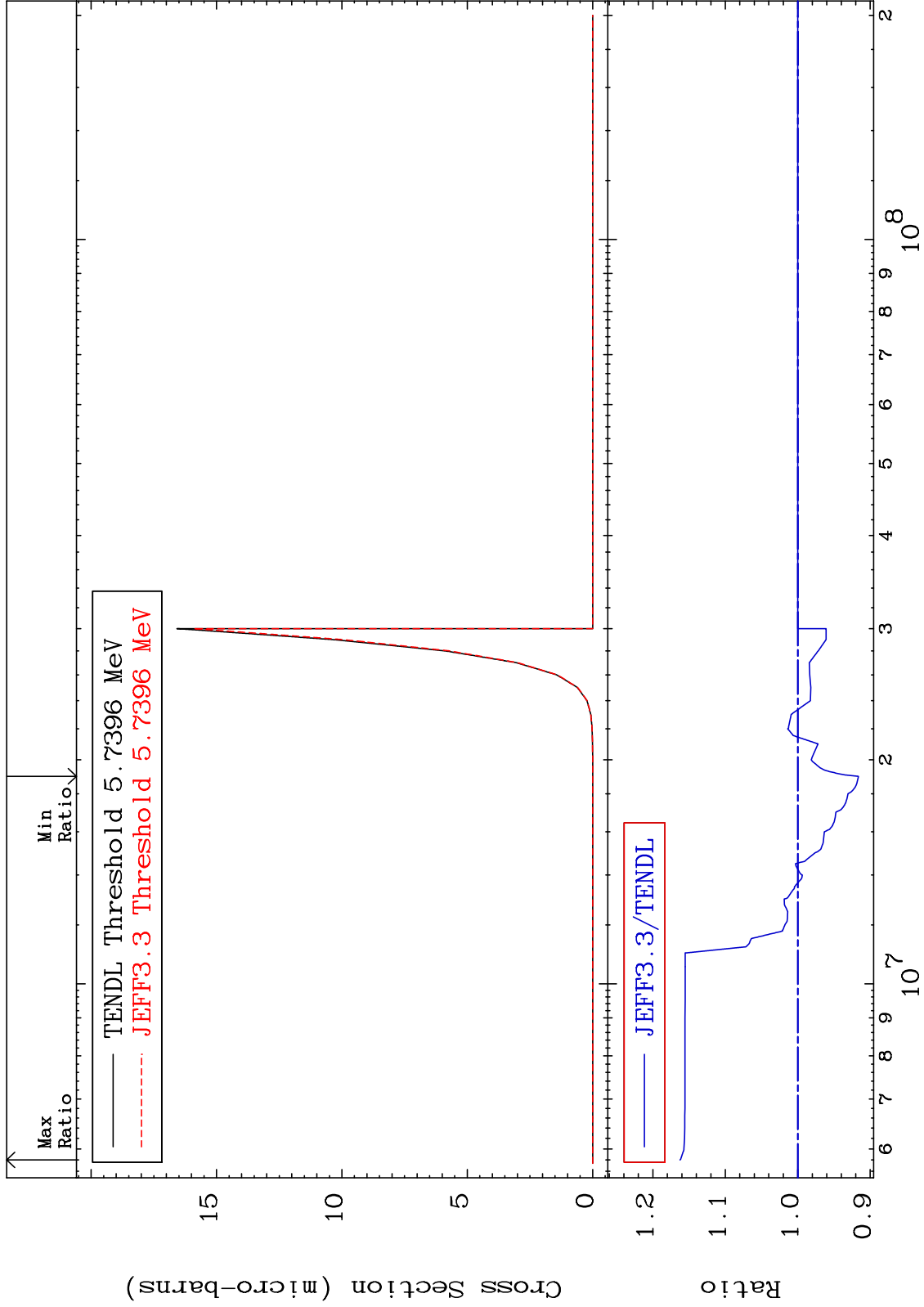
MAT 7034

(n,2p)

70-Yb-171

Cross Section

-8.368 To 16.25 %

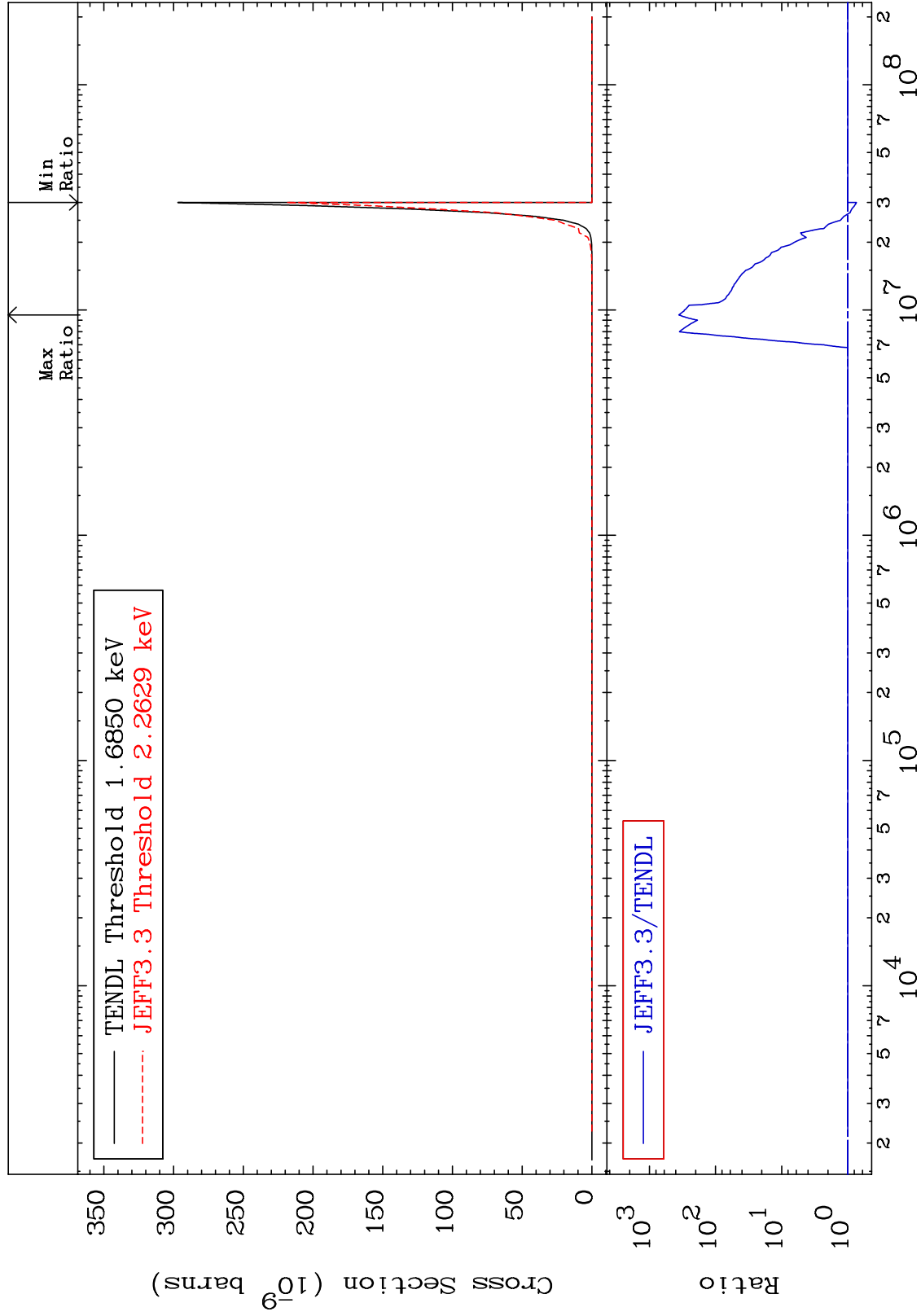


MAT 7034

(n,p) α

Cross Section

70-Yb-171
-26.16 To 9999. %



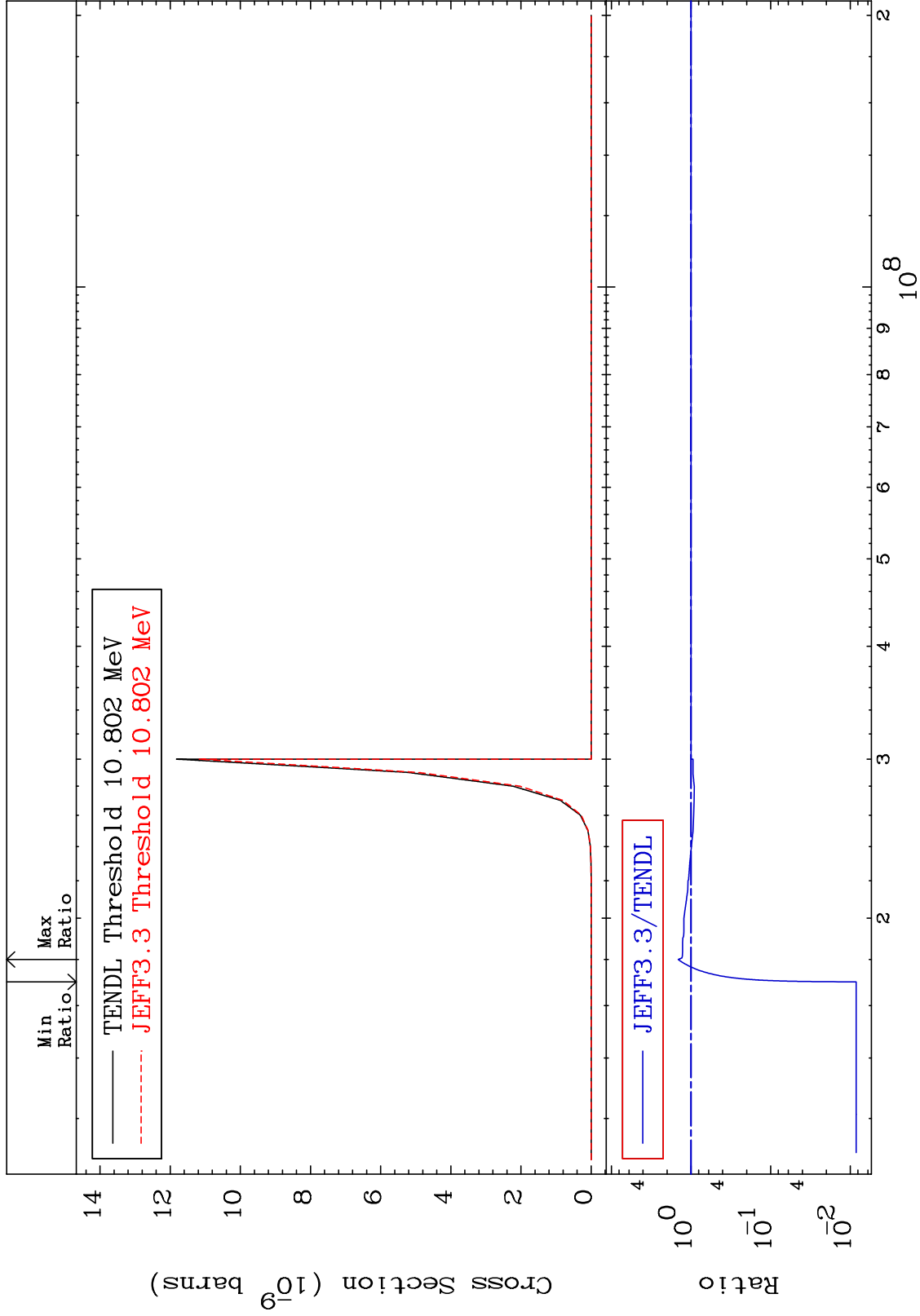
MAT 7034

(n,p) d

70-Yb-171

Cross Section

-99.16 To 44.43 %



60

Incident Energy (eV)

70-Yb-171

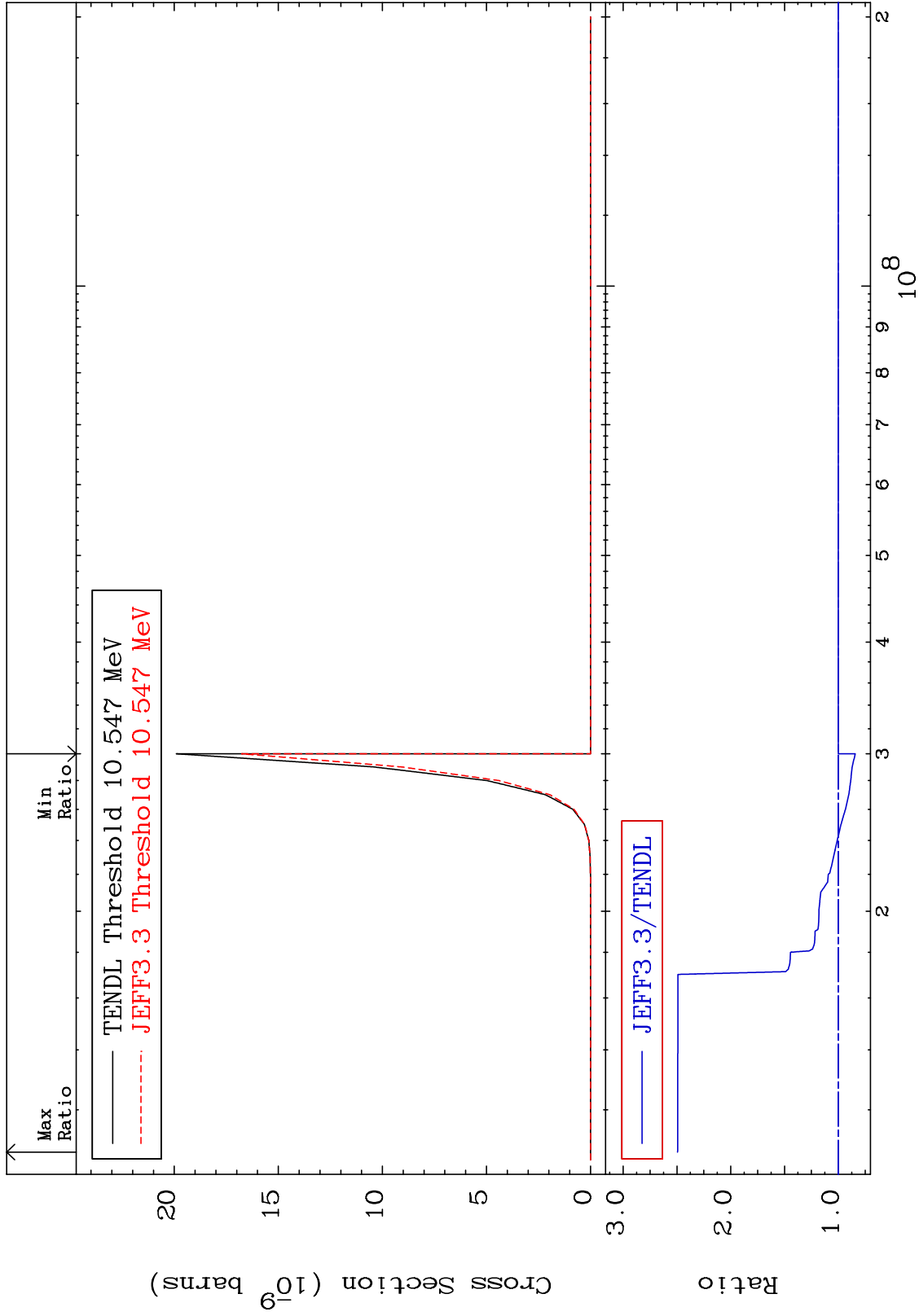
MAT 7034

(n,p) t

70-Yb-171

Cross Section

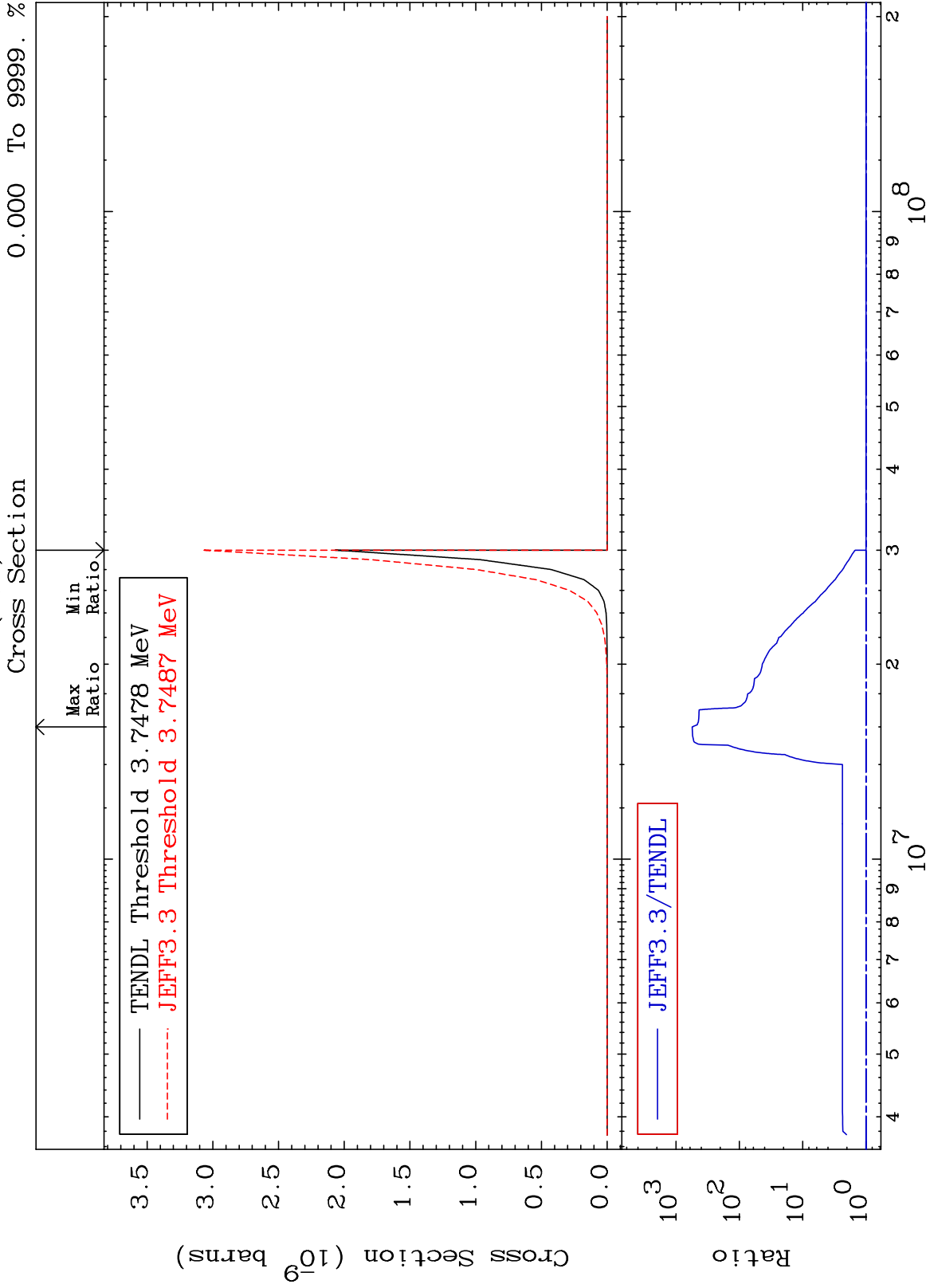
-15.80 To 149.4 %



MAT 7034

(n,d) α

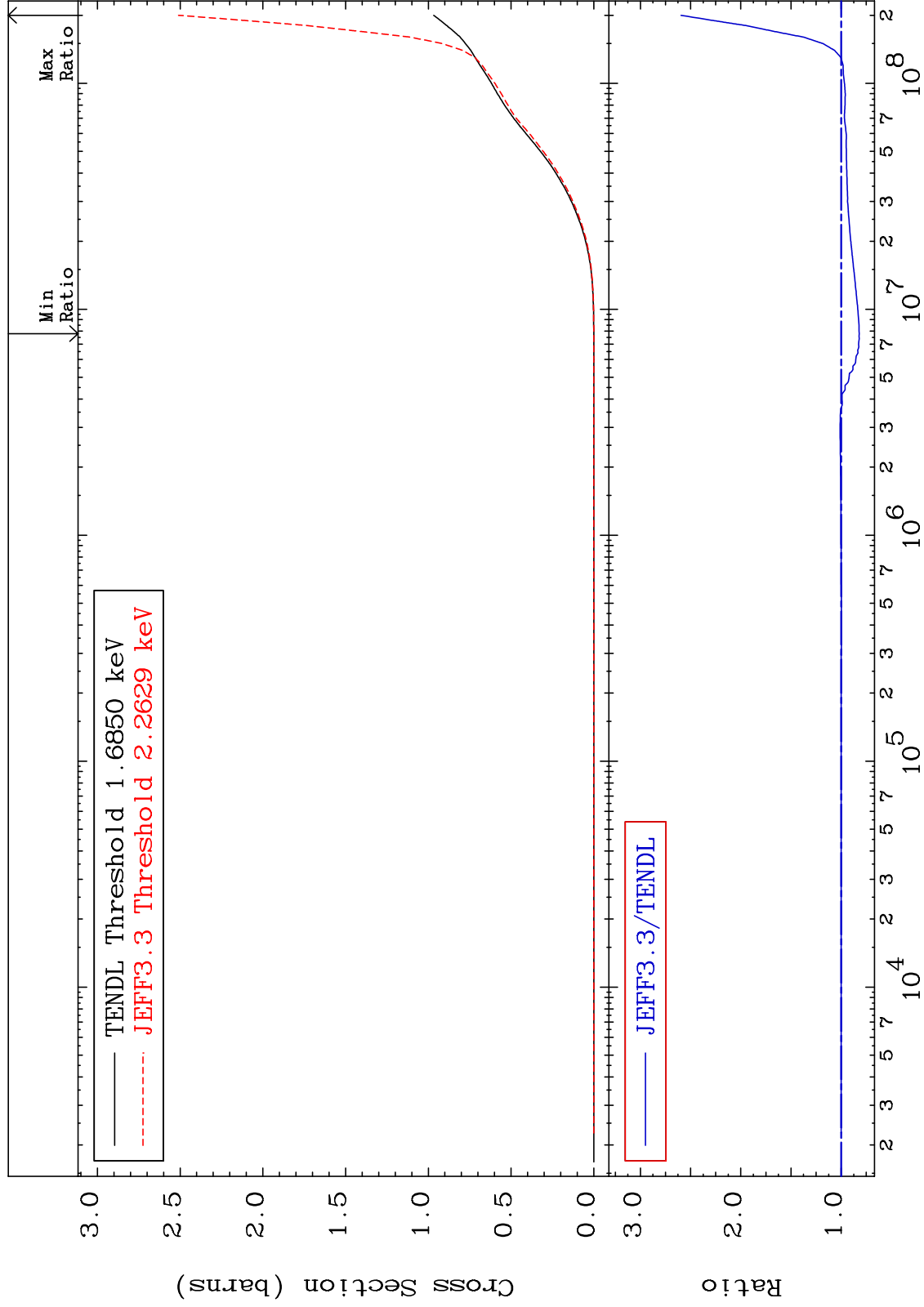
70-Yb-171
To 9999. %
0.000



MAT 7034

Hydrogen Production
Cross Section

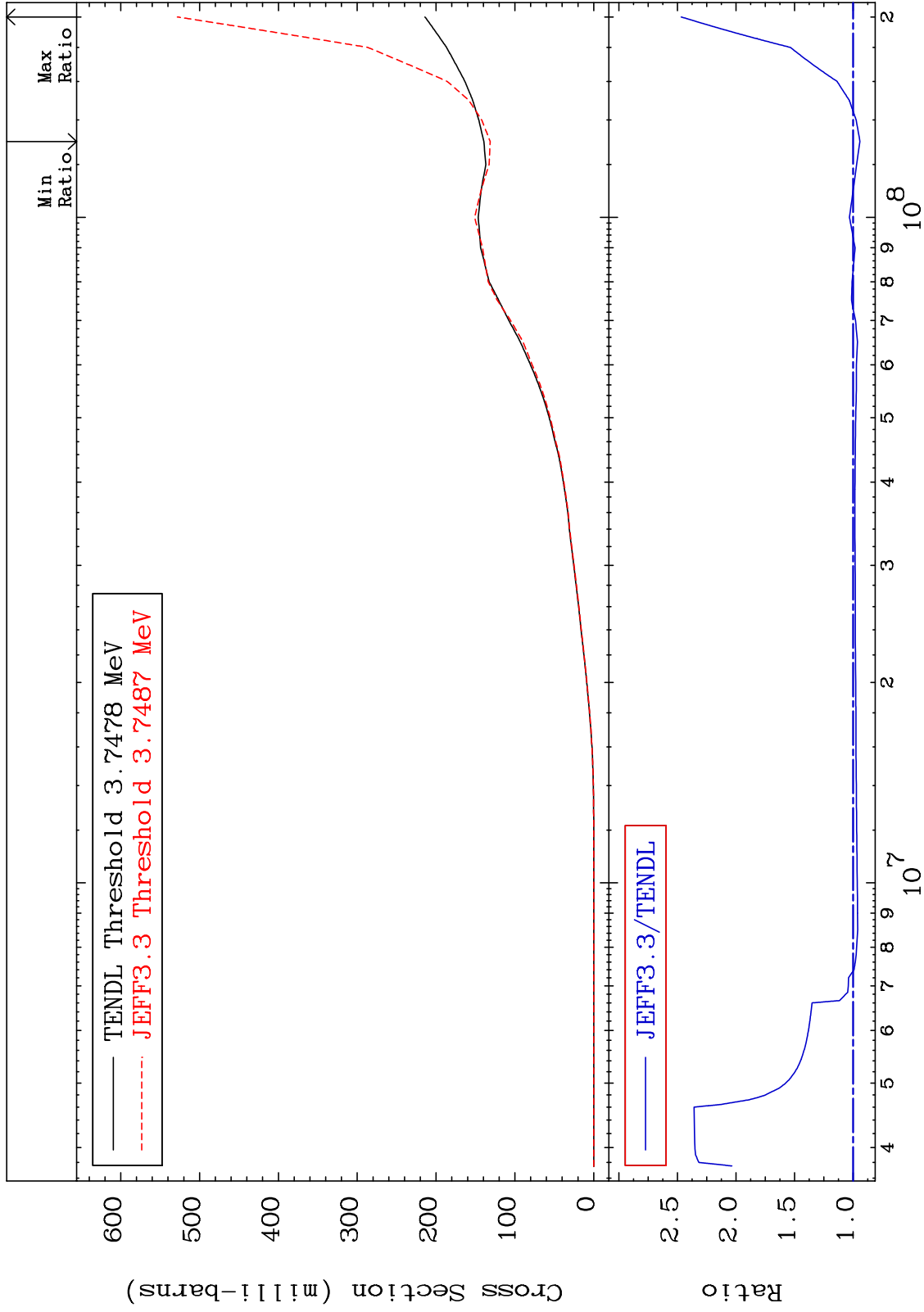
70-Yb-171
-18.03 To 159.5 %



MAT 7034

Deuterium Production
Cross Section

70-Yb-171
-5.759 To 146.7 %



64

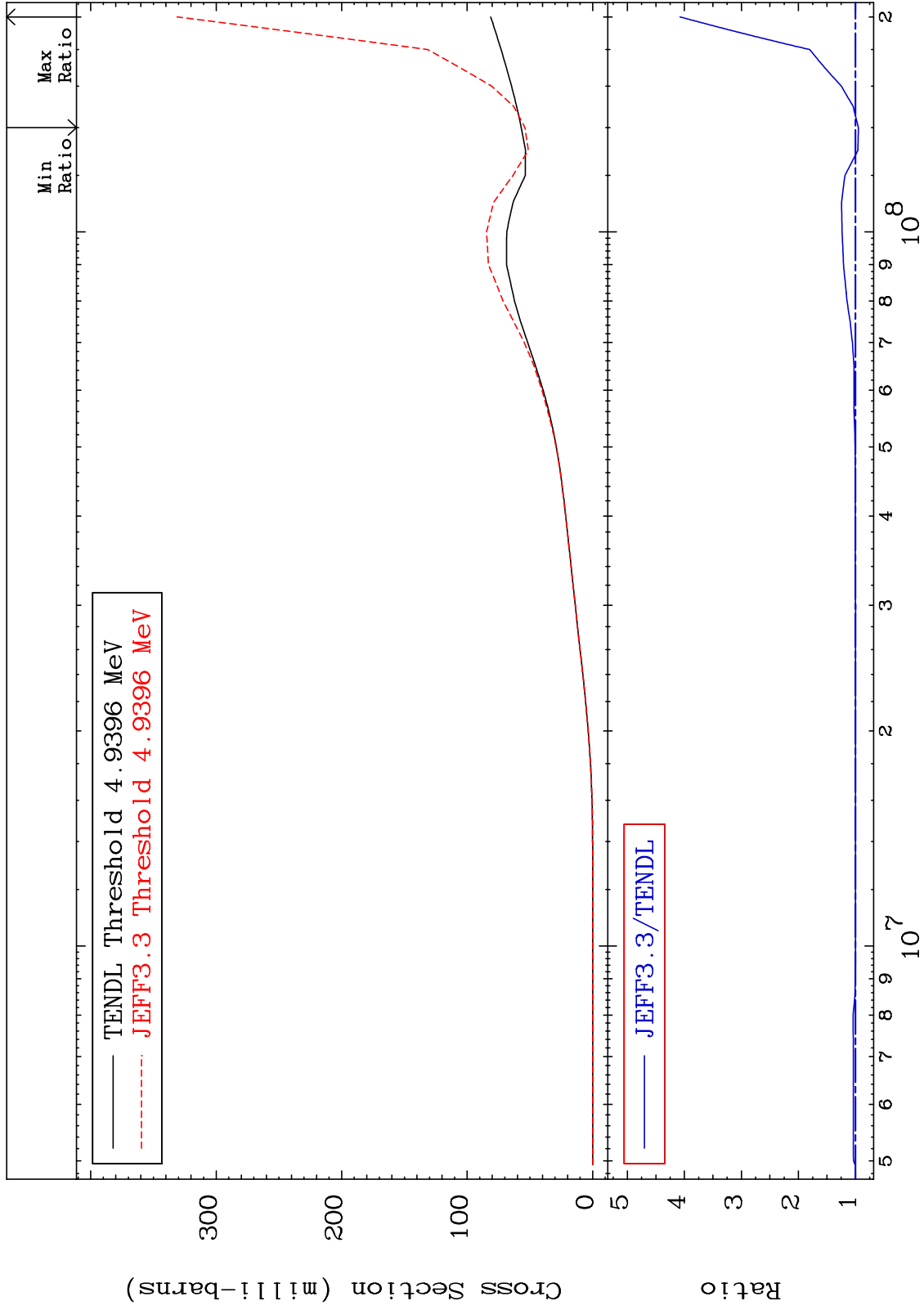
Incident Energy (eV)

70-Yb-171

MAT 7034

Tritium Production
Cross Section

70-Yb-171
-5.196 To 307.7 %



65

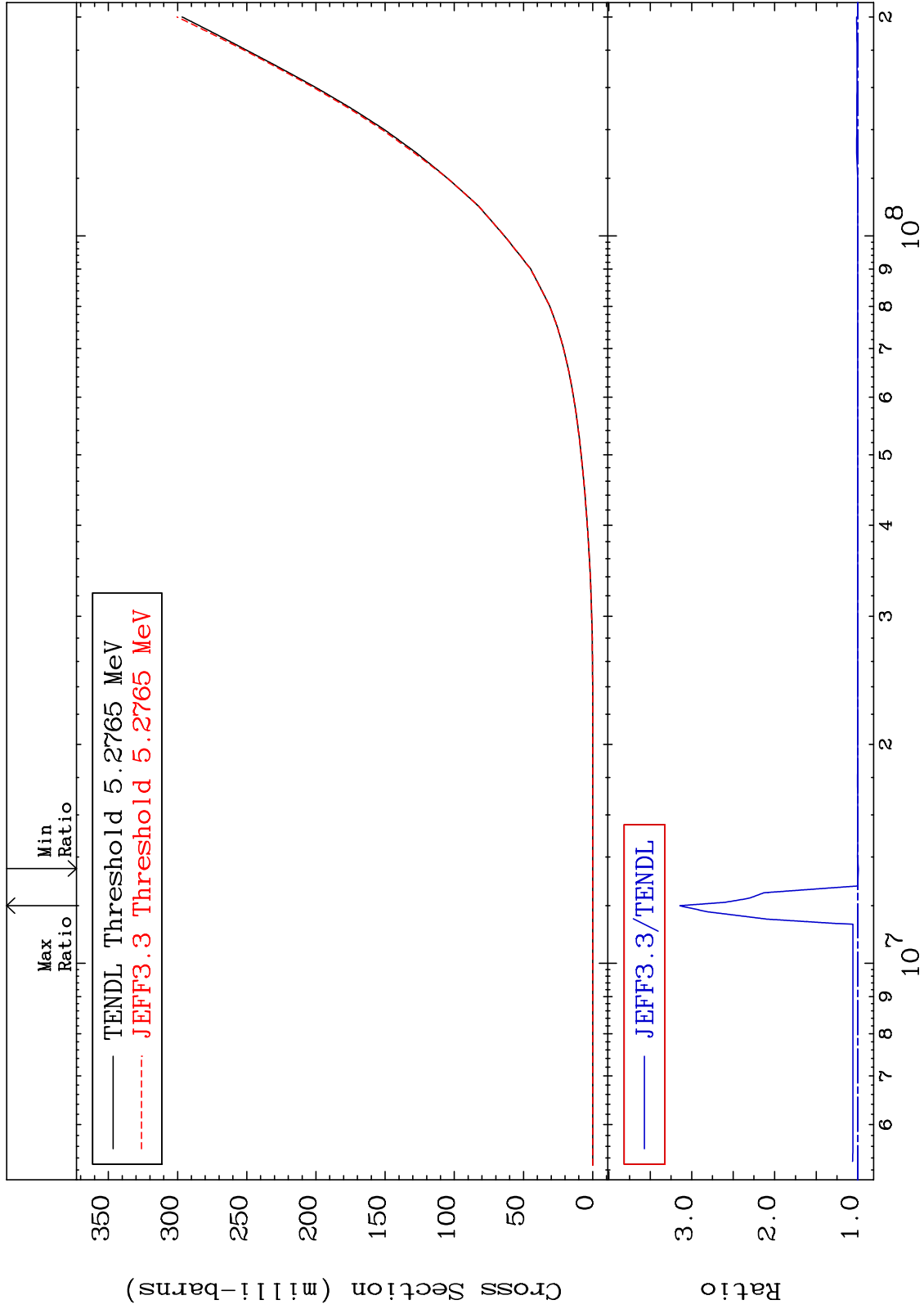
Incident Energy (eV)

70-Yb-171

MAT 7034

He-3 Production
Cross Section

70-Yb-171
-0.931 To 214.2 %



66

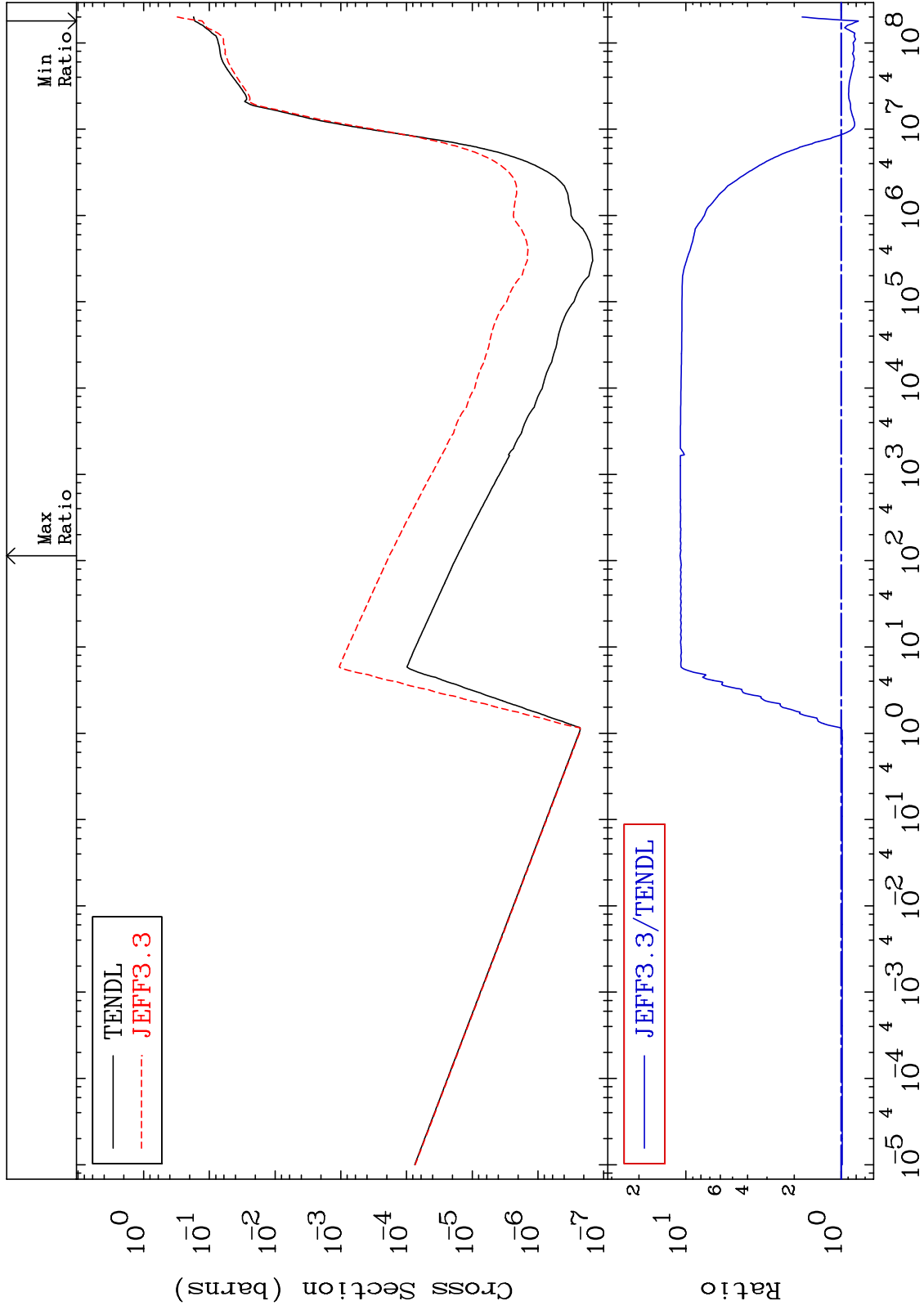
Incident Energy (eV)

70-Yb-171

MAT 7034

He-4 Production
Cross Section

70-Yb-171
-22.64 To 988.7 %



67

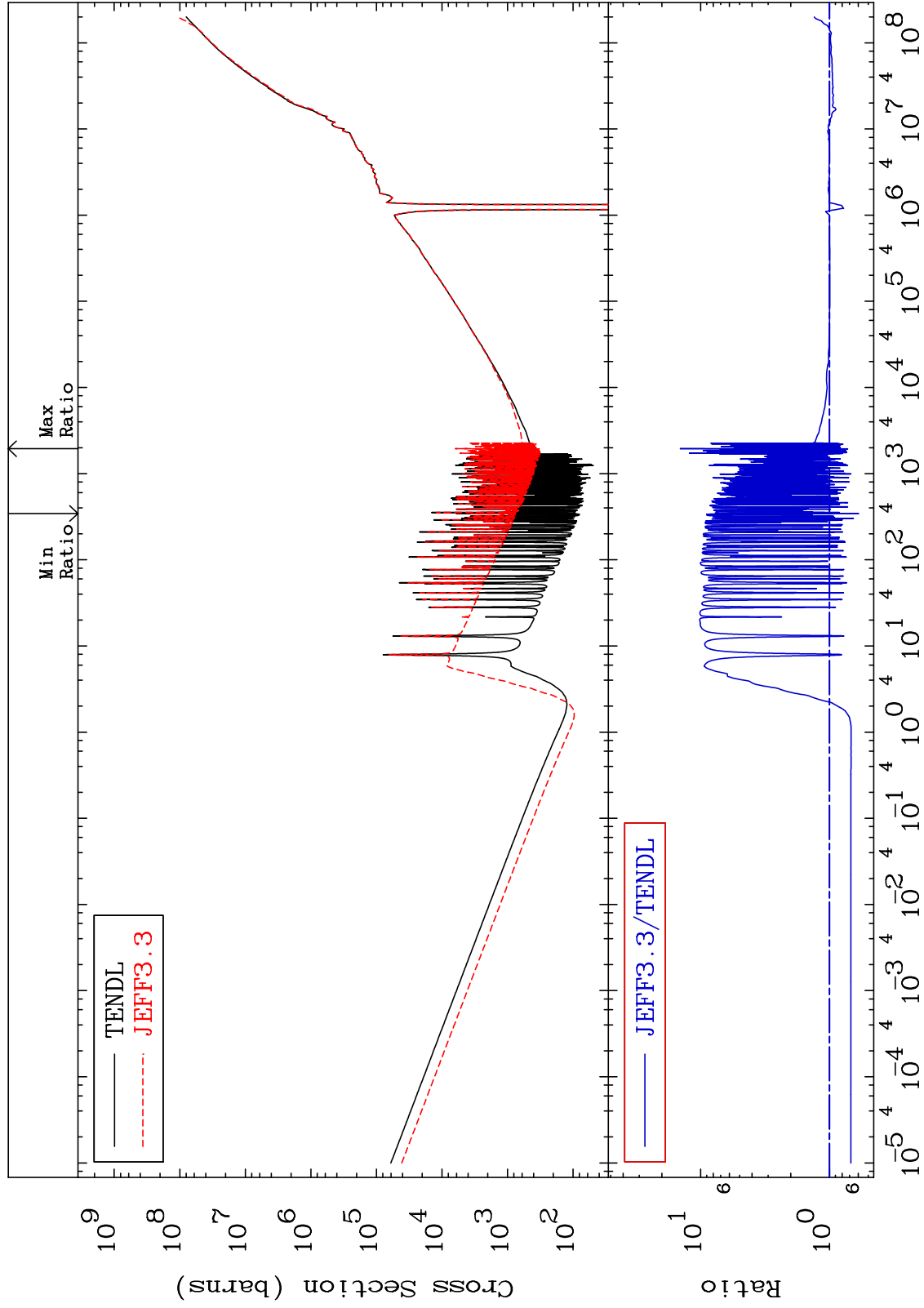
Incident Energy (eV)

70-Yb-171

MAT 7034

Kerma total (eV-barns)
Cross Section

70-Yb-171
-40.38 To 1337. %



68

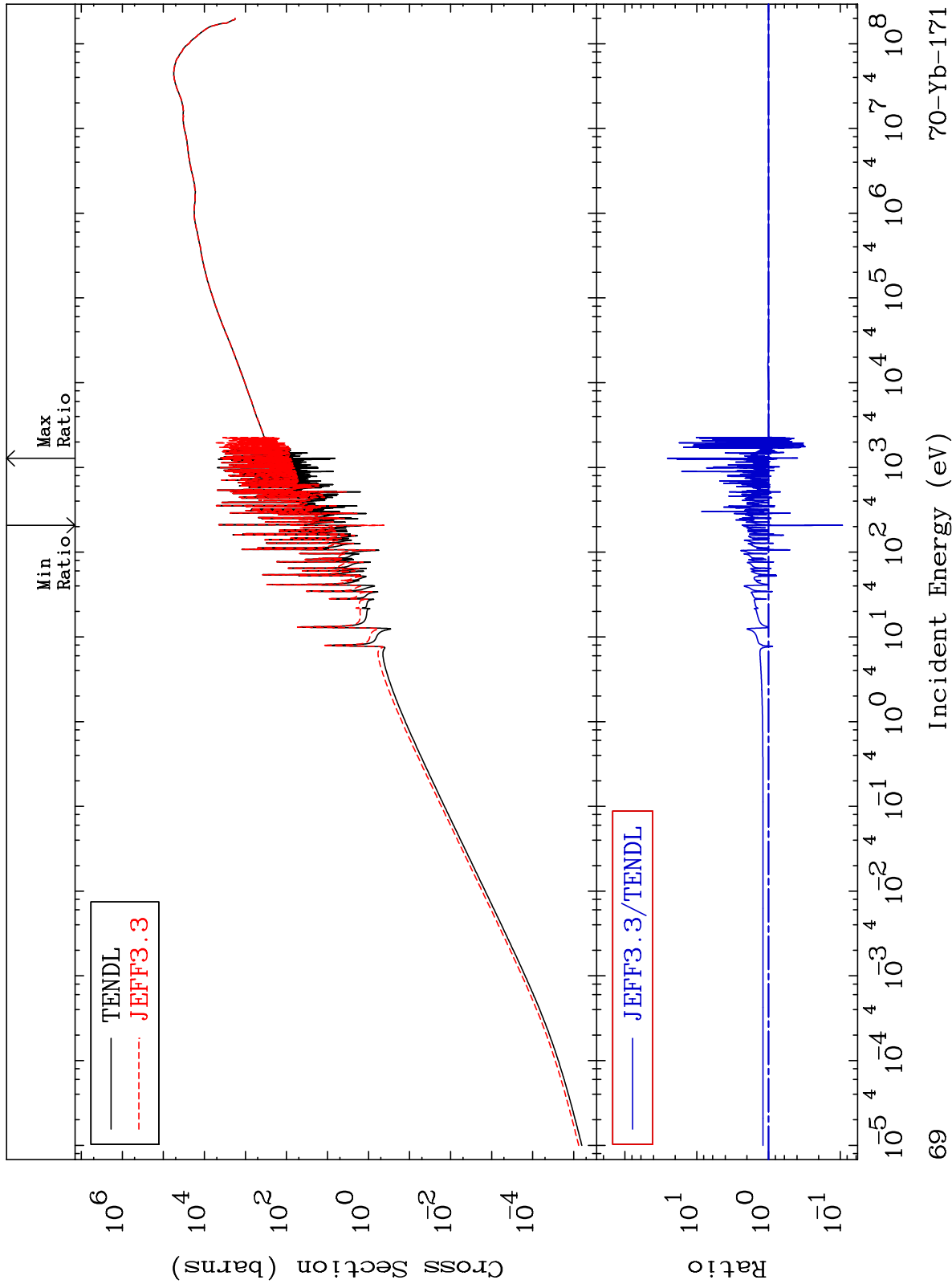
Incident Energy (eV)

70-Yb-171

MAT 7034

Kerma elastic
Cross Section

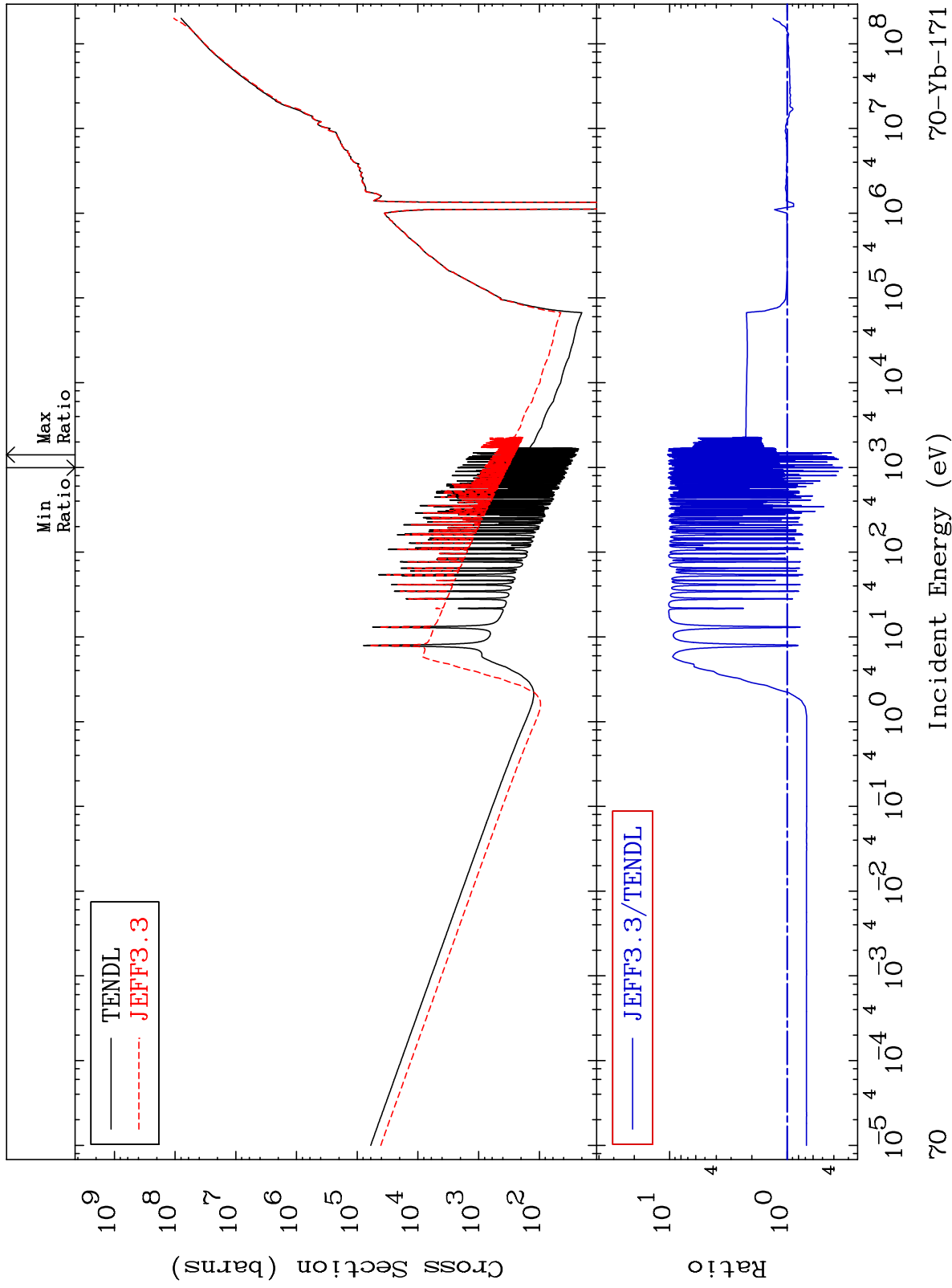
70-Yb-171
-90.75 To 2451. %



MAT 7034

Kerma non-elastic (all but mt2)
Cross Section

70-Yb-171
-66.38 To 942.3 %



70-Yb-171

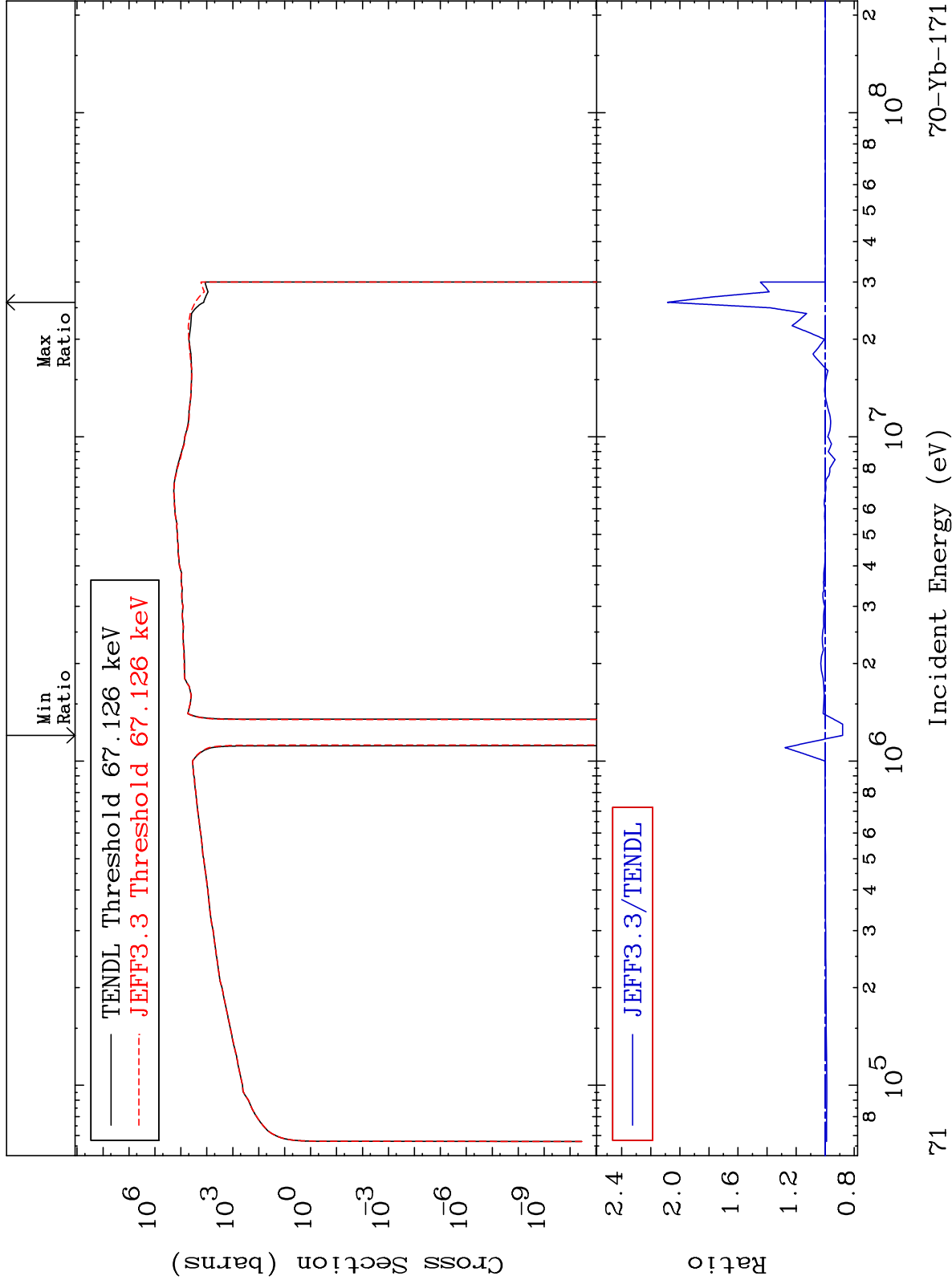
Incident Energy (eV)

70

MAT 7034

Kerma inelastic (mt51-91)
Cross Section

70-Yb-171
-12.01 To 108.5 %



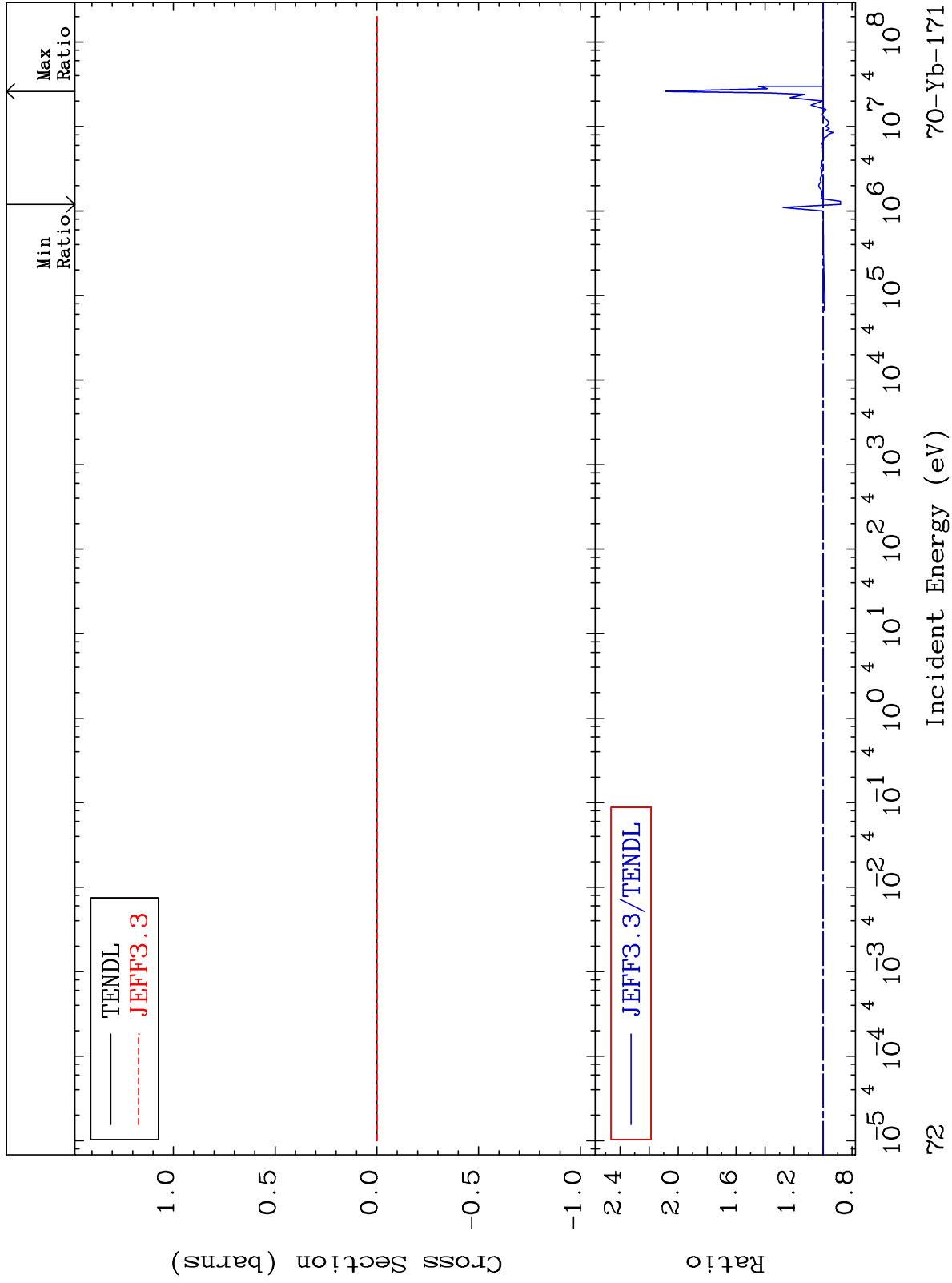
71

70-Yb-171

MAT 7034

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

70-Yb-171
-12.01 To 108.5 %



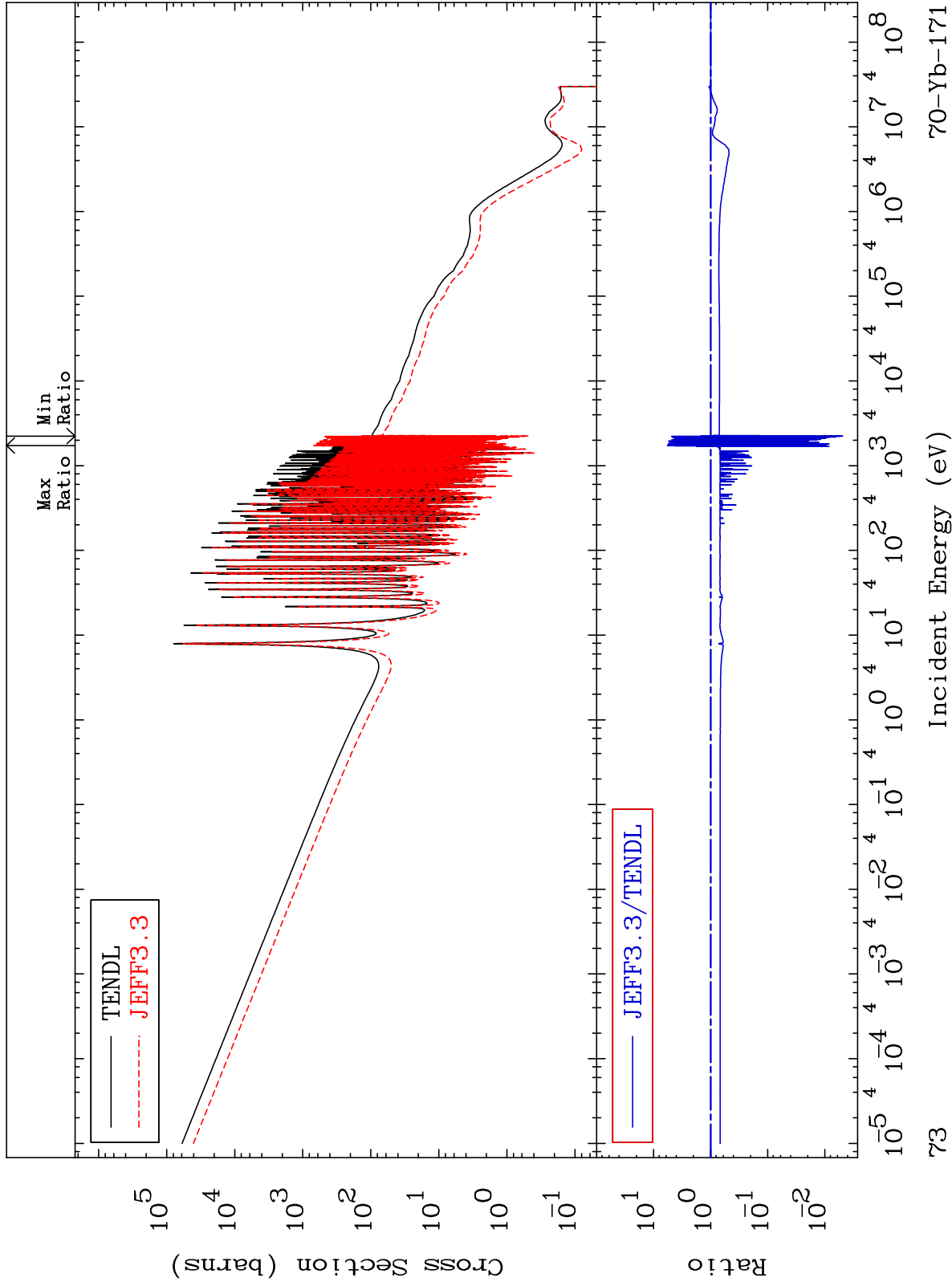
72

70-Yb-171

MAT 7034

Kerma capture (mt102)
Cross Section

70-Yb-171
-99.51 To 468.2 %



73

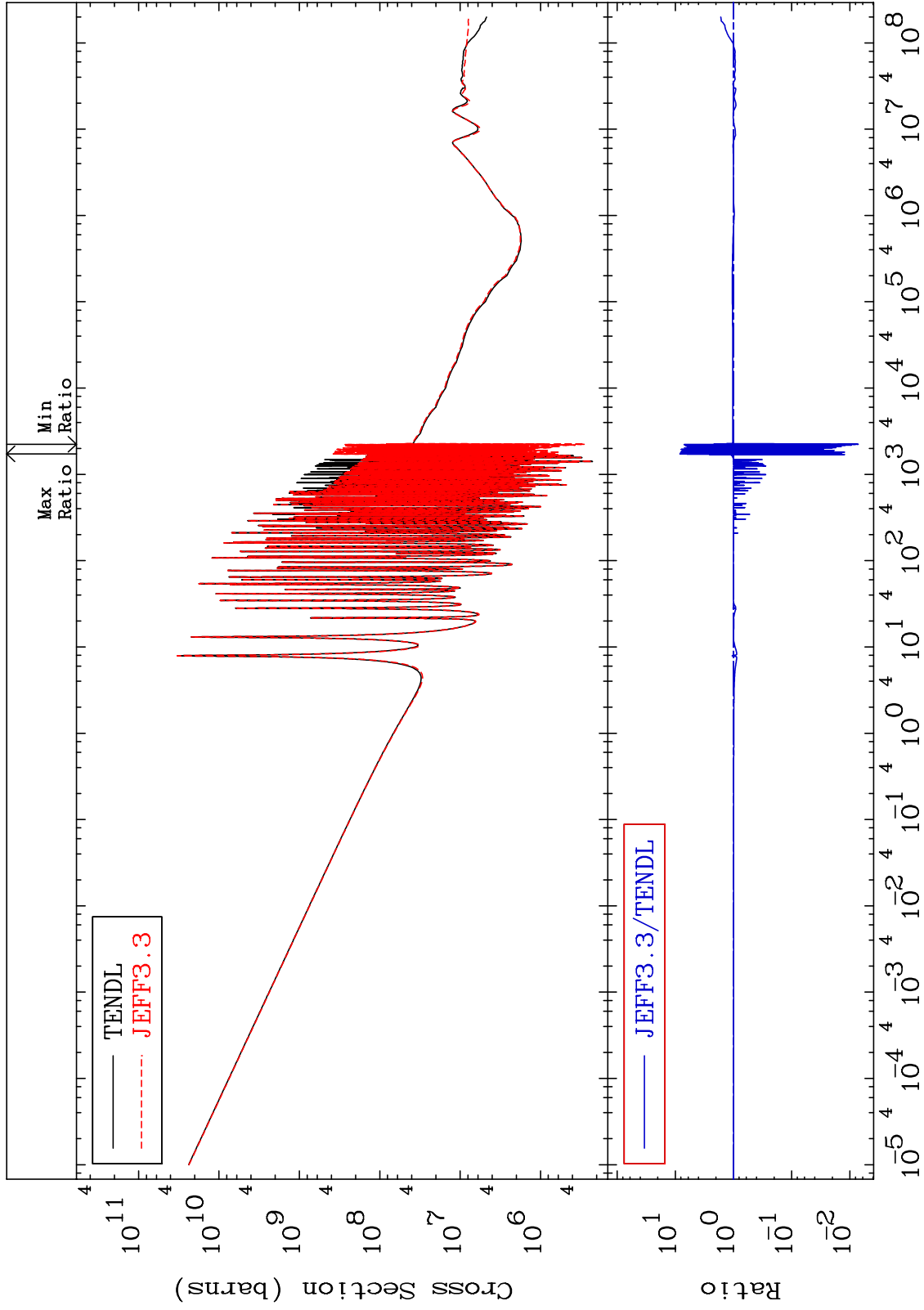
Incident Energy (eV)

70-Yb-171

MAT 7034

Total photon (eV-barns)
Cross Section

70-Yb-171
-99.29 To 728.5 %



74

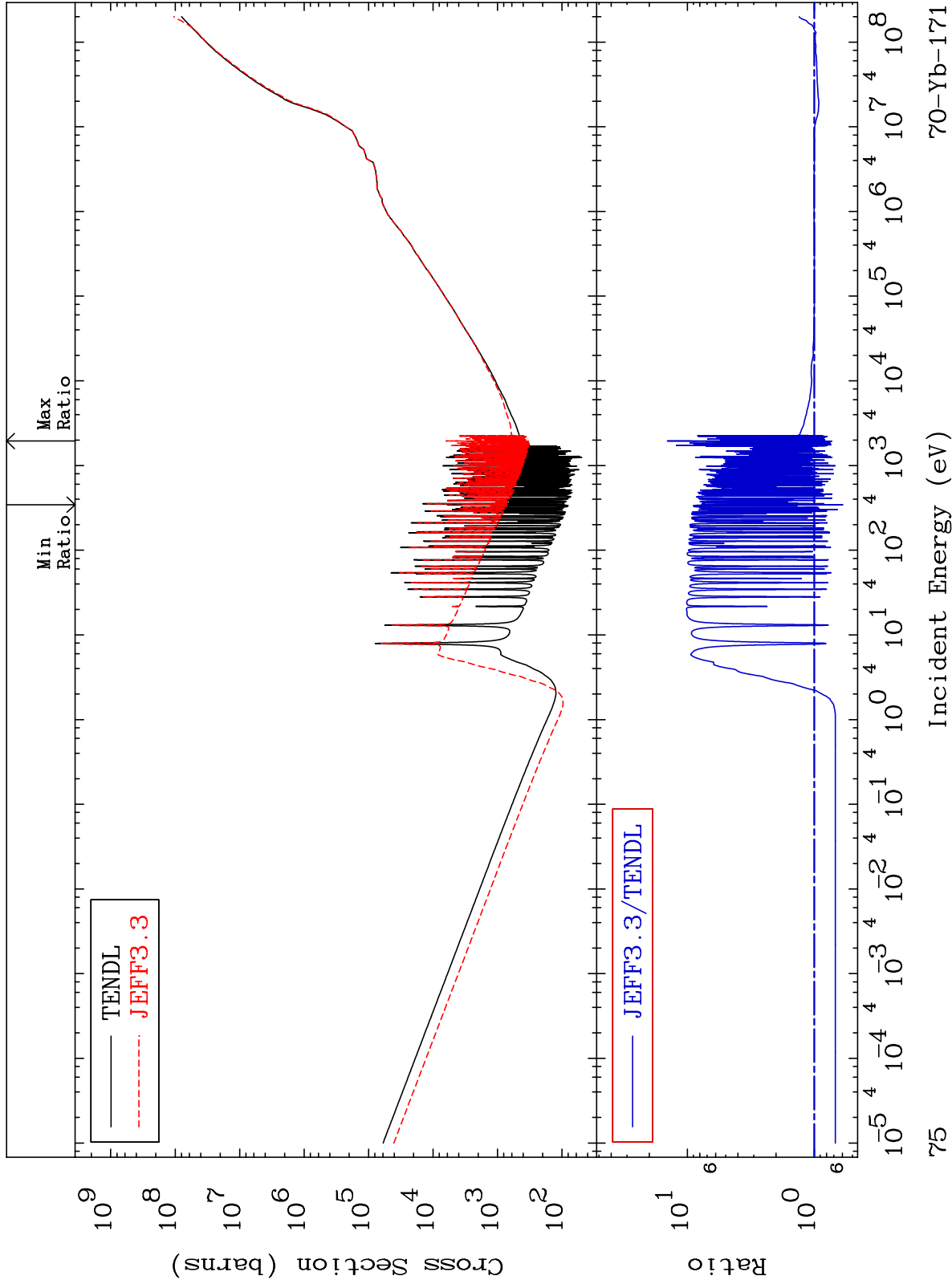
Incident Energy (eV)

70-Yb-171

MAT 7034

Total kinematic kerma (high limit)
Cross Section

70-Yb-171
-40.32 To 1337. %



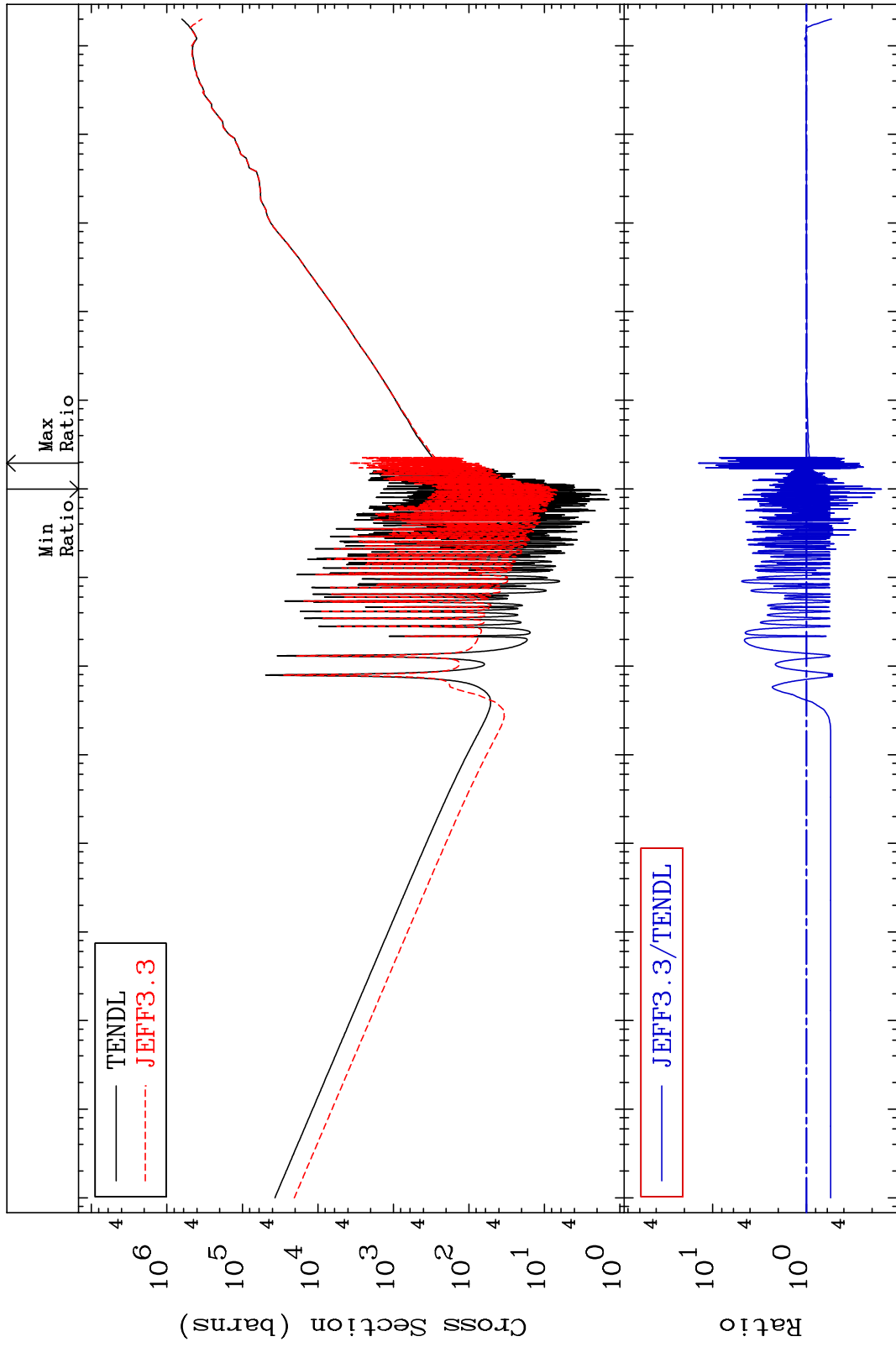
MAT 7034

Dpa total (eV-barns)

70-Yb-171

-84.16 To 1322. %

Cross Section



76

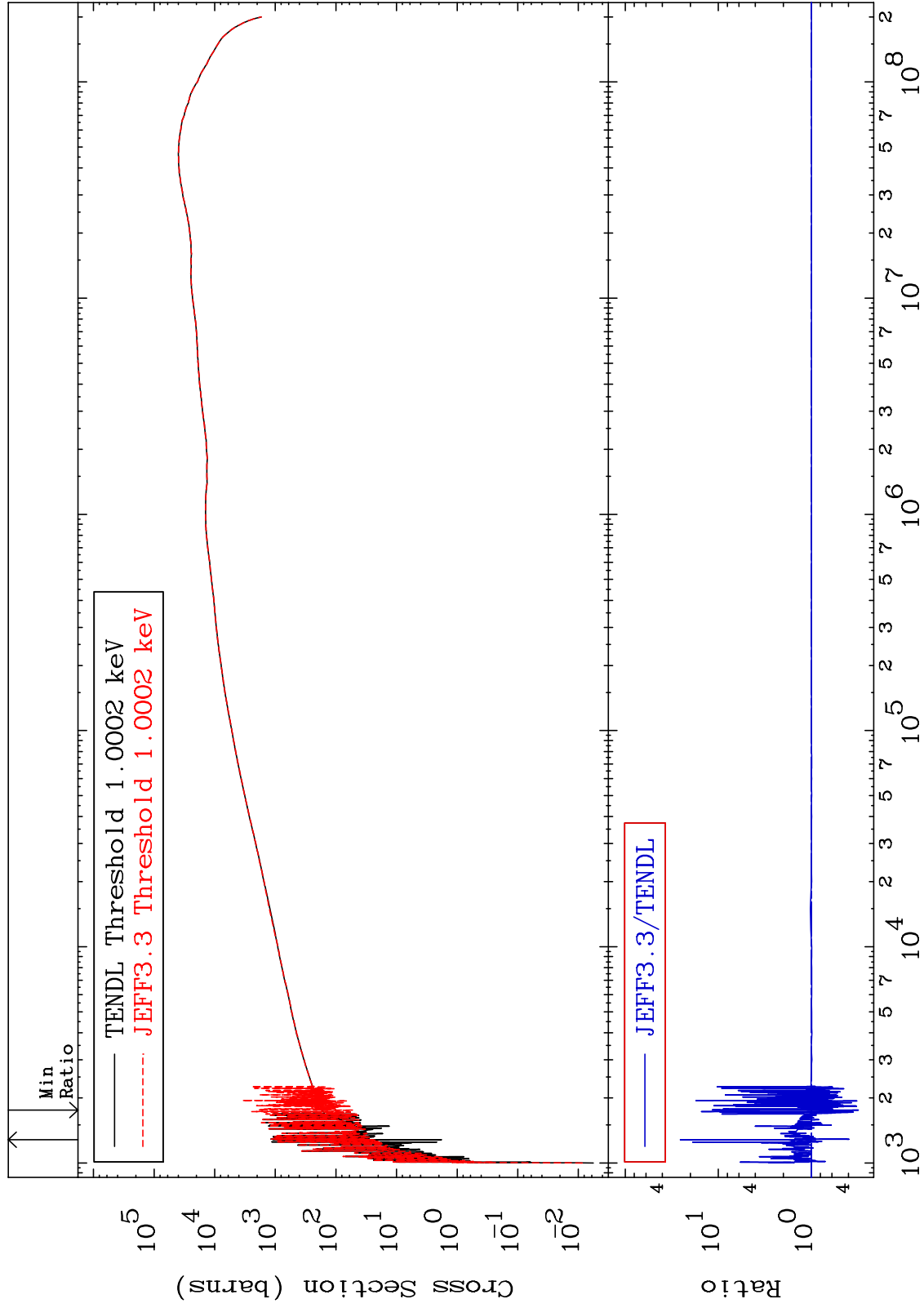
Incident Energy (eV)

70-Yb-171

MAT 7034

Dpa elastic (mt2)
Cross Section

70-Yb-171
-68.86 To 2451. %



77

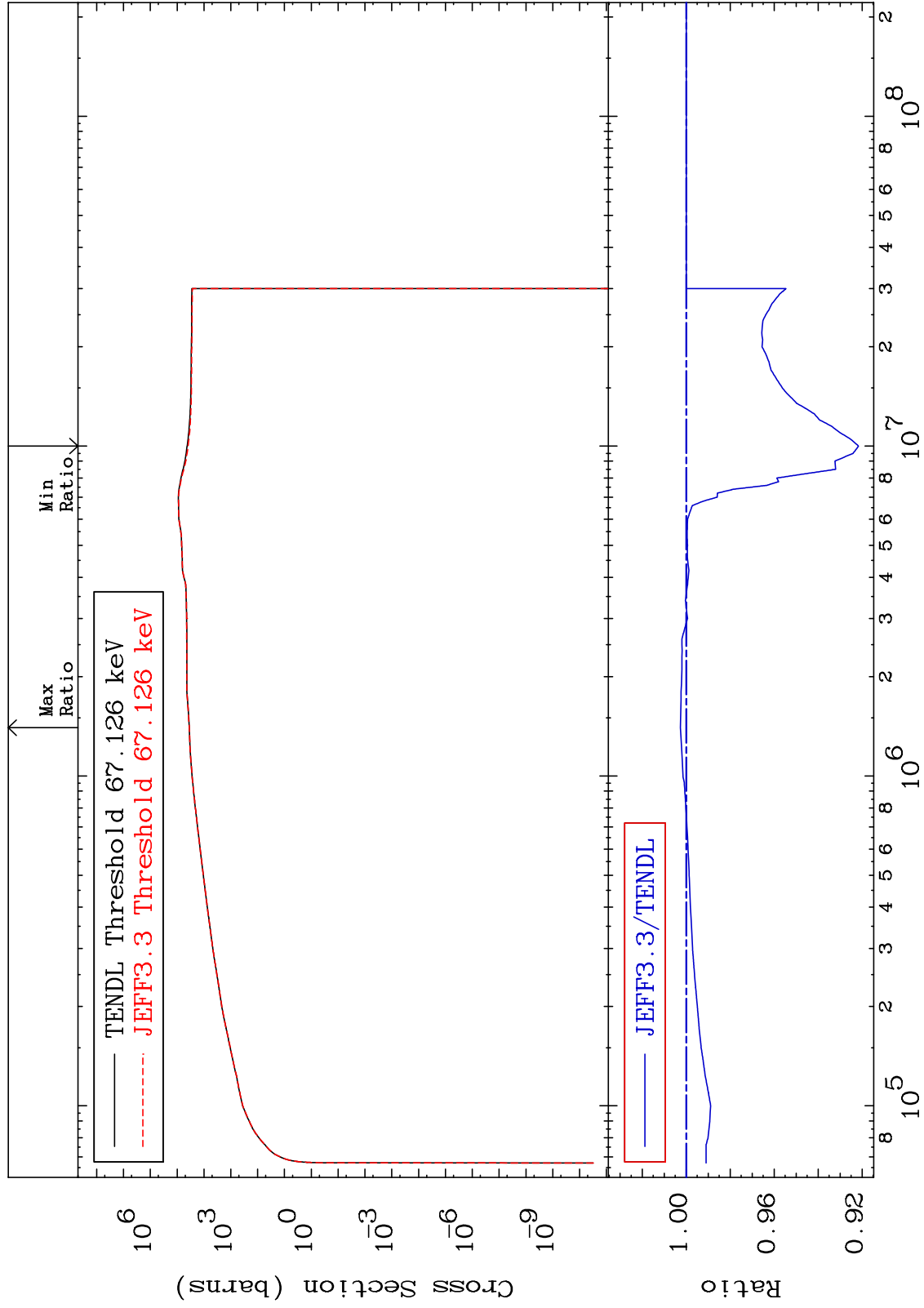
Incident Energy (eV)

70-Yb-171

MAT 7034

Dpa inelastic (mt51-91)
Cross Section

70-Yb-171
-7.835 To 0.260 %



78

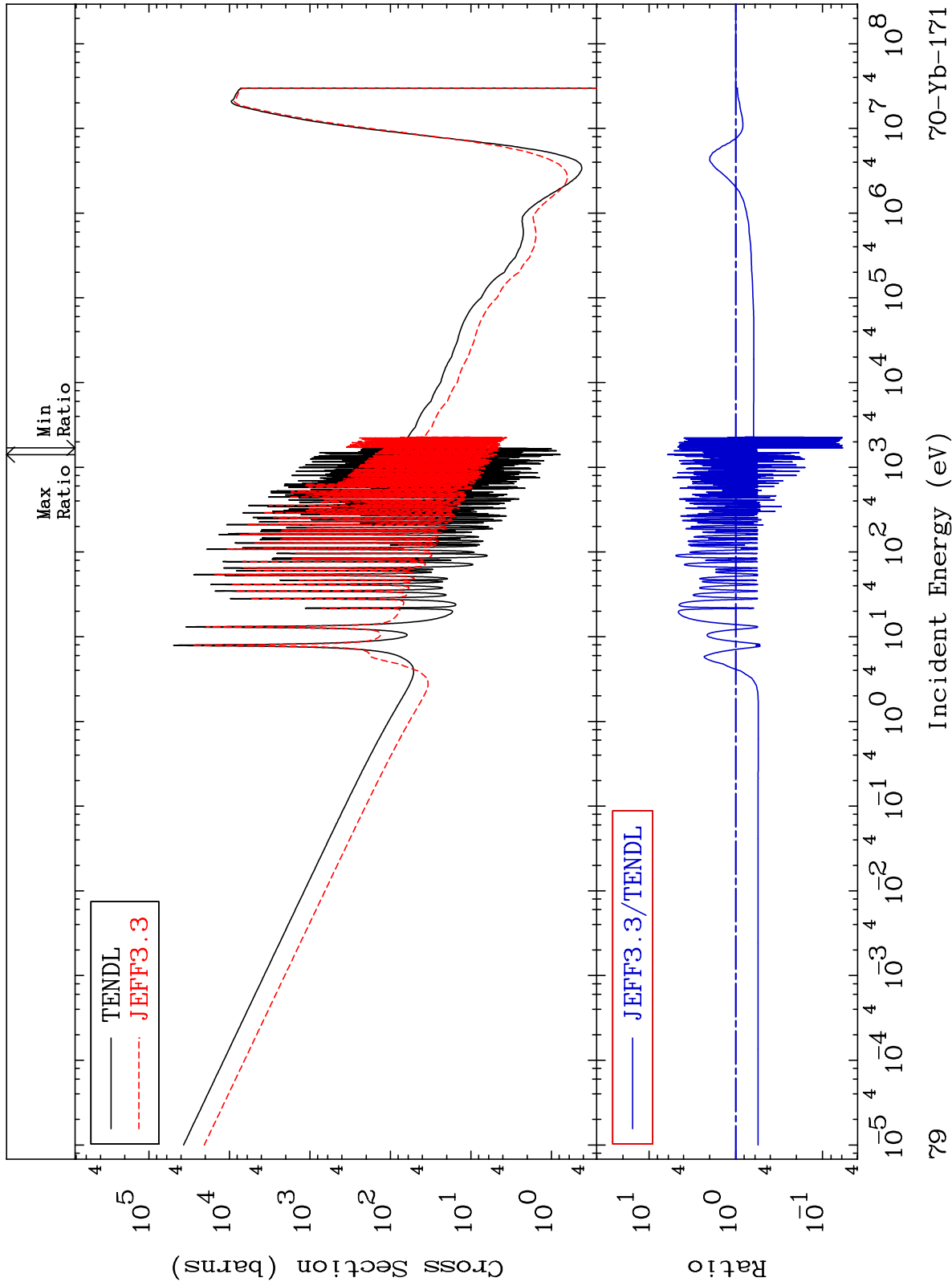
Incident Energy (eV)

70-Yb-171

MAT 7034

Dpa disappearance (mt102 -120)
Cross Section

70-Yb-171
-94.13 To 512.1 %

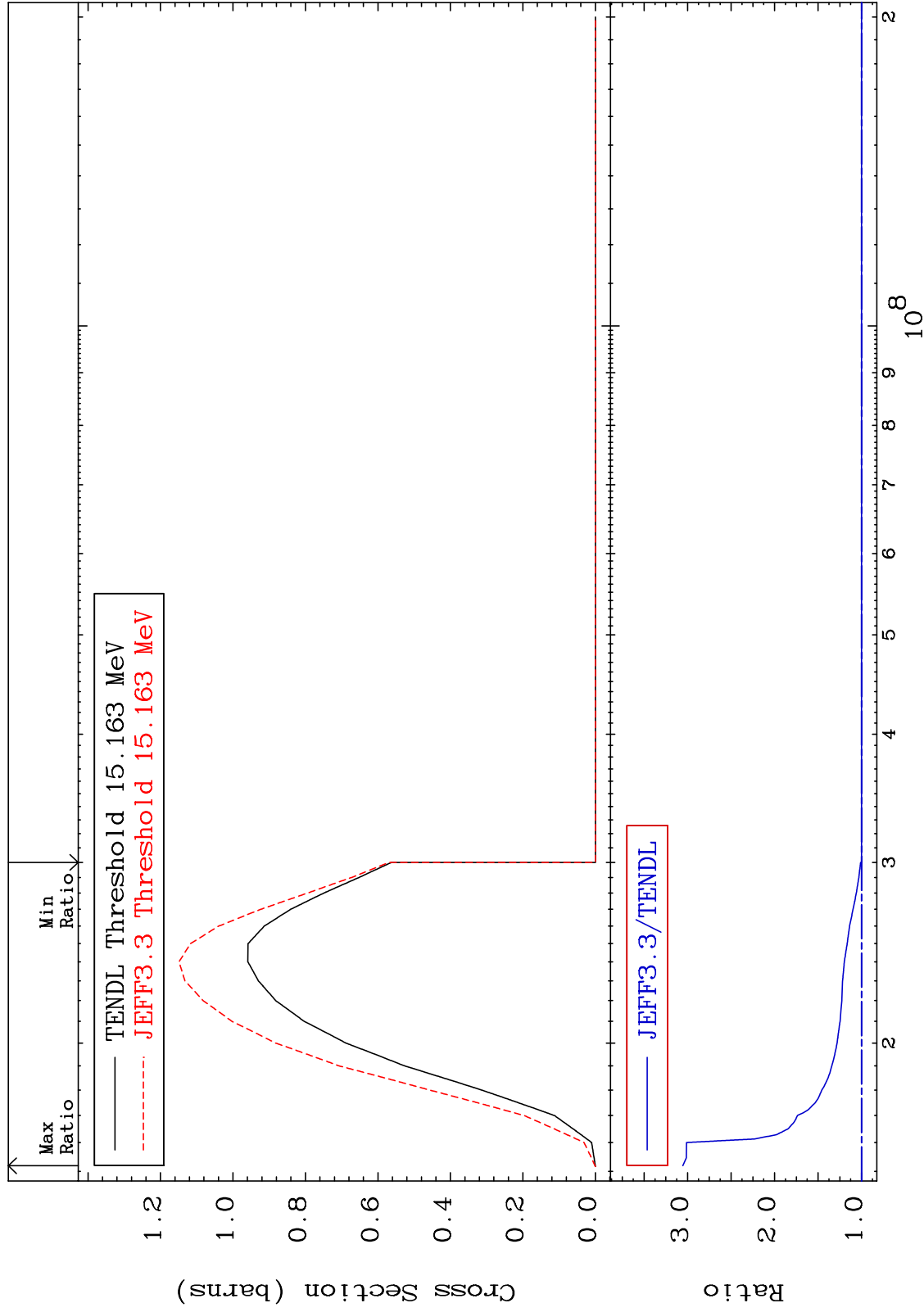


MAT 7034

(n,3n):70-Yb-169g

70-Yb-171

Radionuclide Production Cross Section 0.000 To 205.4 %



80

Incident Energy (eV)

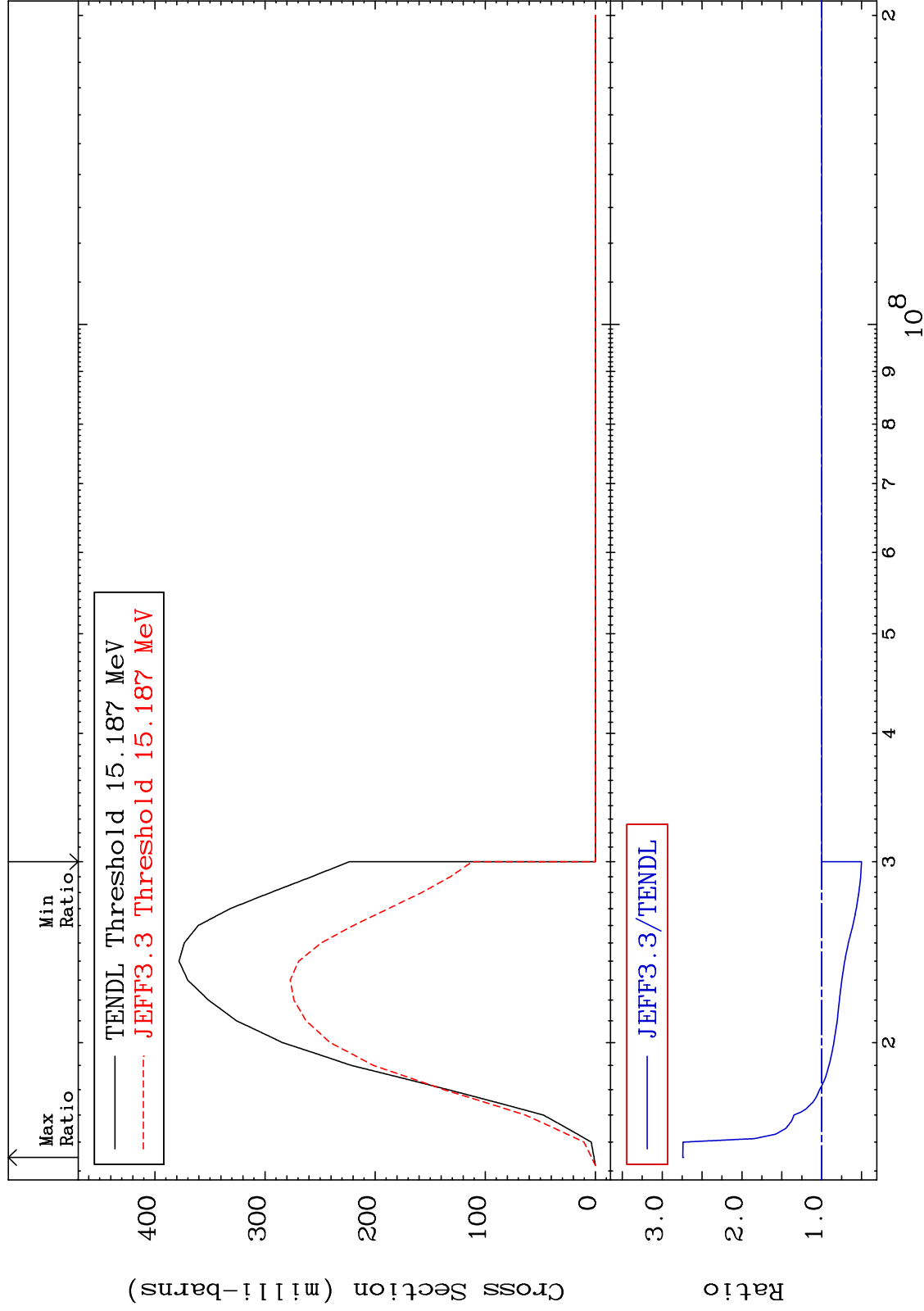
70-Yb-171

MAT 7034

(n,3n):70-Yb-169m1

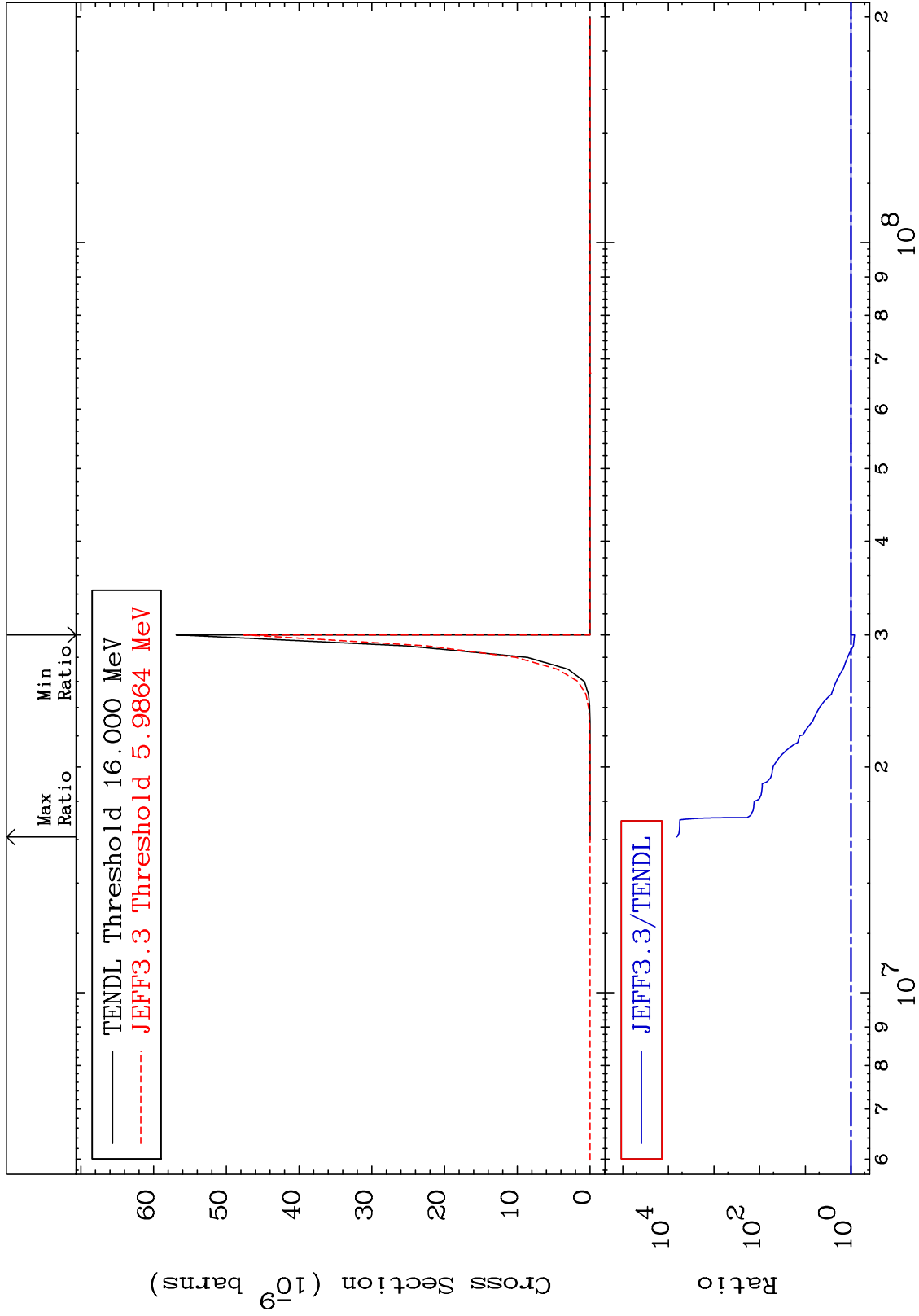
70-Yb-171

Radionuclide Production Cross Section -49.94 To 174.1 %



MAT 7034

(n, n') p α : 67-Ho-166g 70-Yb-171
Radionuclide Production Cross Section -16.43 To 9999. %



82

Incident Energy (eV)

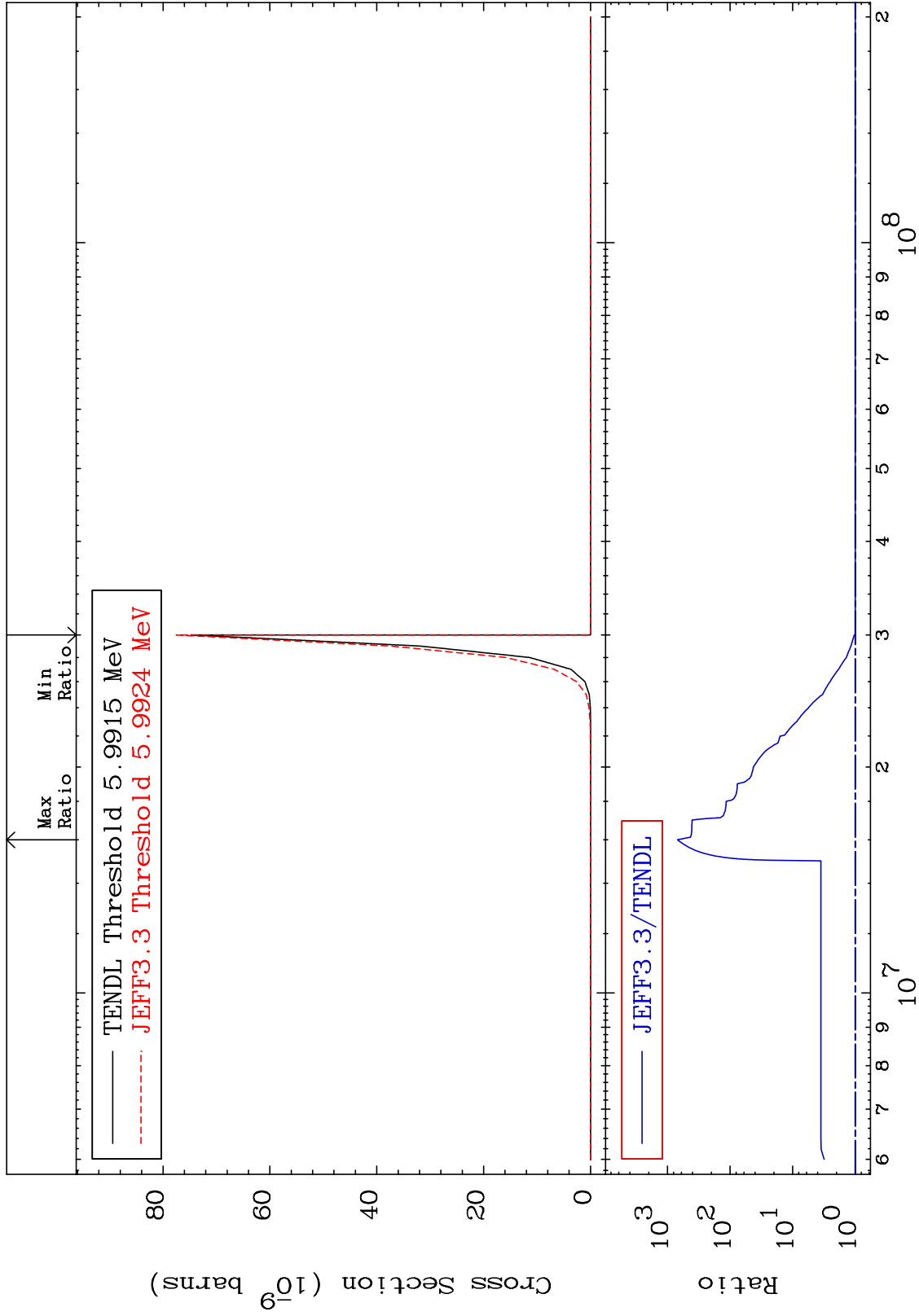
70-Yb-171

MAT 7034

(n, n') p α : 67-Ho-166m1

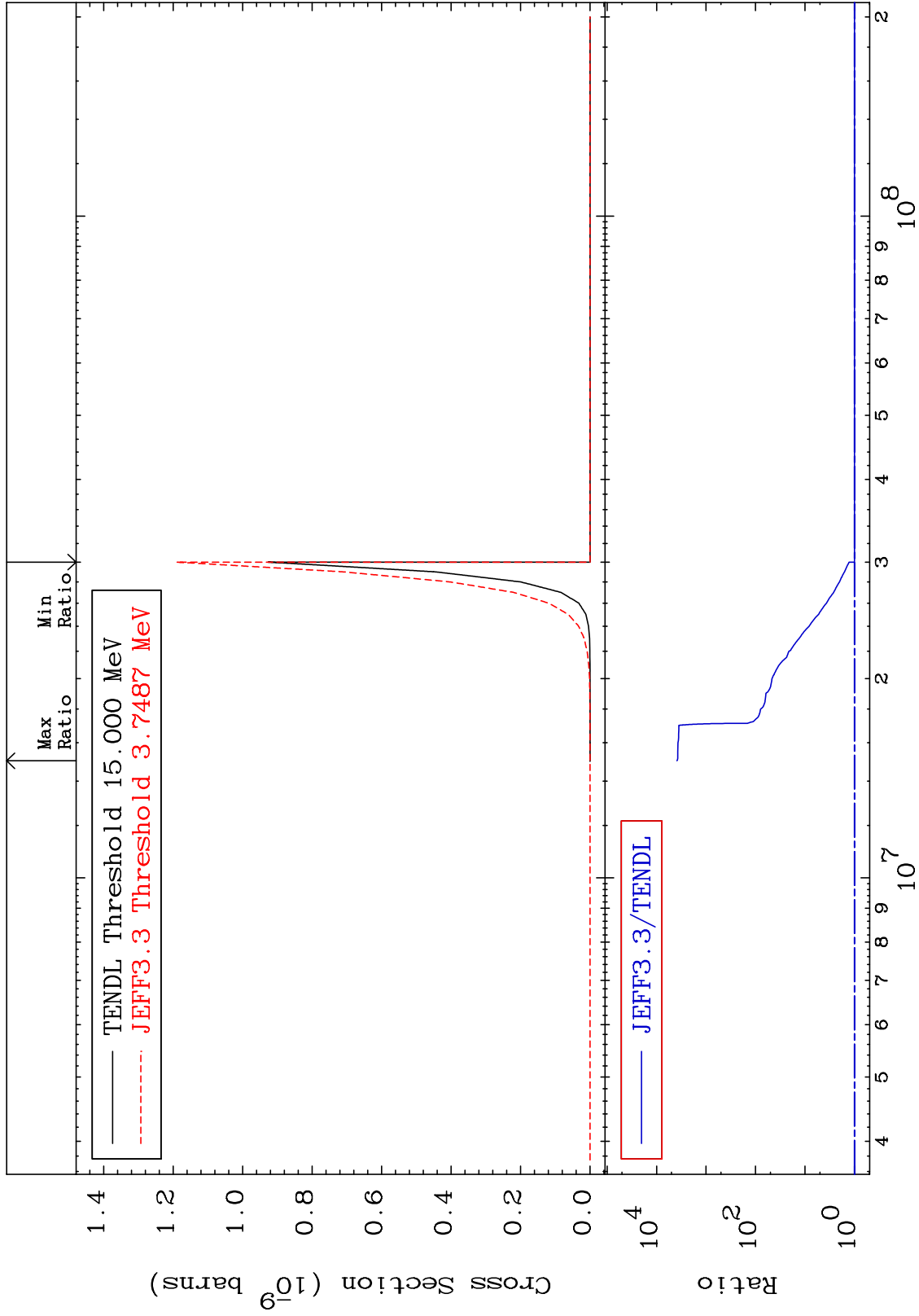
70-Yb-171

Radionuclide Production Cross Section 0.000 To 9999. %



MAT 7034

(n, d) α : 67-Ho-166g 70-Yb-171
Radionuclide Production Cross Section 0.000 To 9999. %



70-Yb-171

Incident Energy (eV)

MAT 7034

(n,d) α :67-Ho-166m1 70-Yb-171
Radionuclide Production Cross Section 0.000 To 9999. %

