

Program Complot
(Version 2018-1)

by

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(Present Contact Information)

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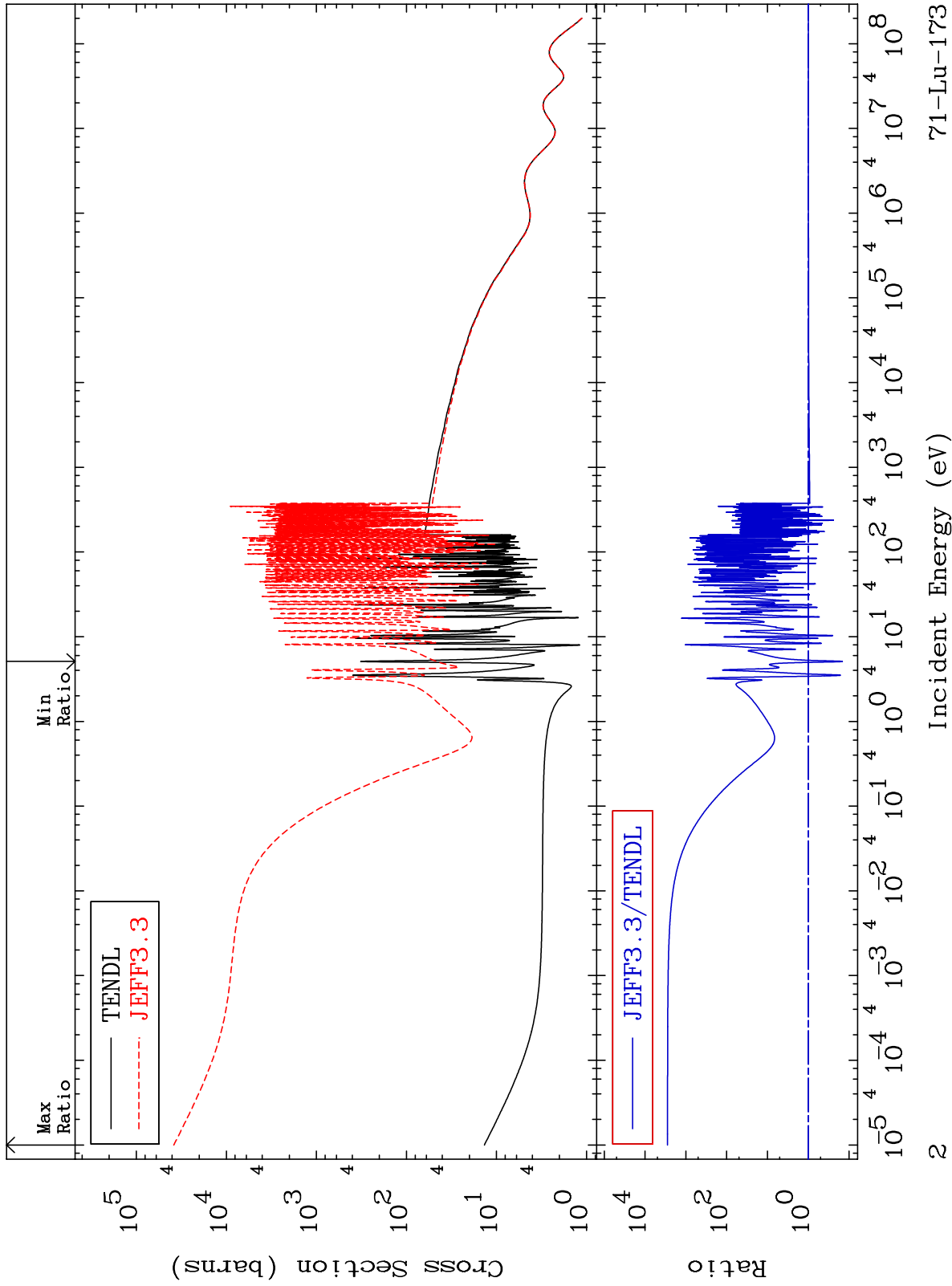
U.S.A.

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Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7119 Elastic Cross Section 71-Lu-173 -85.62 To 9999. %



71-Lu-173

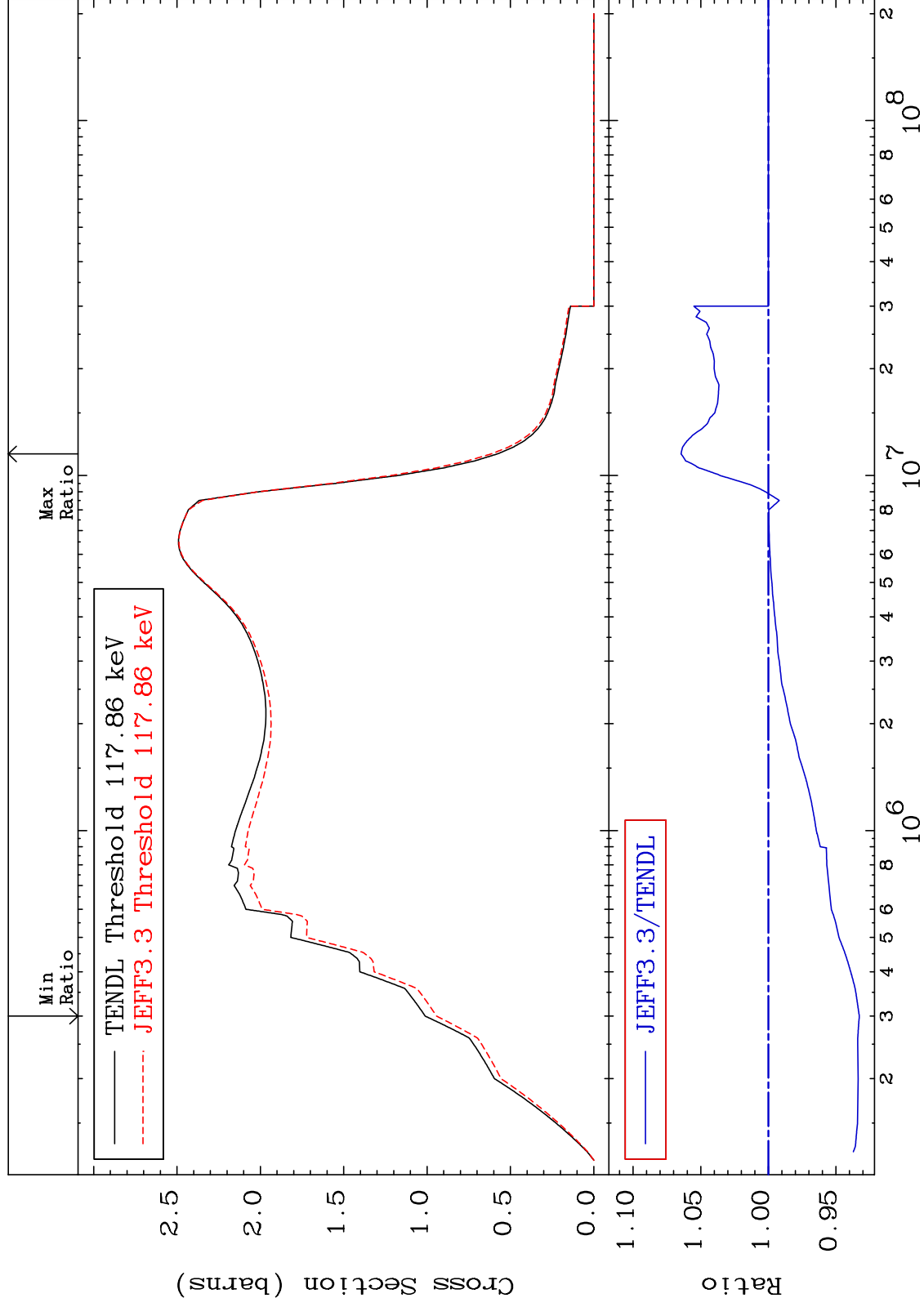
MAT 7119

Inelastic

71-Lu-173

Cross Section

-6.725 To 6.455 %



Incident Energy (eV)

71-Lu-173

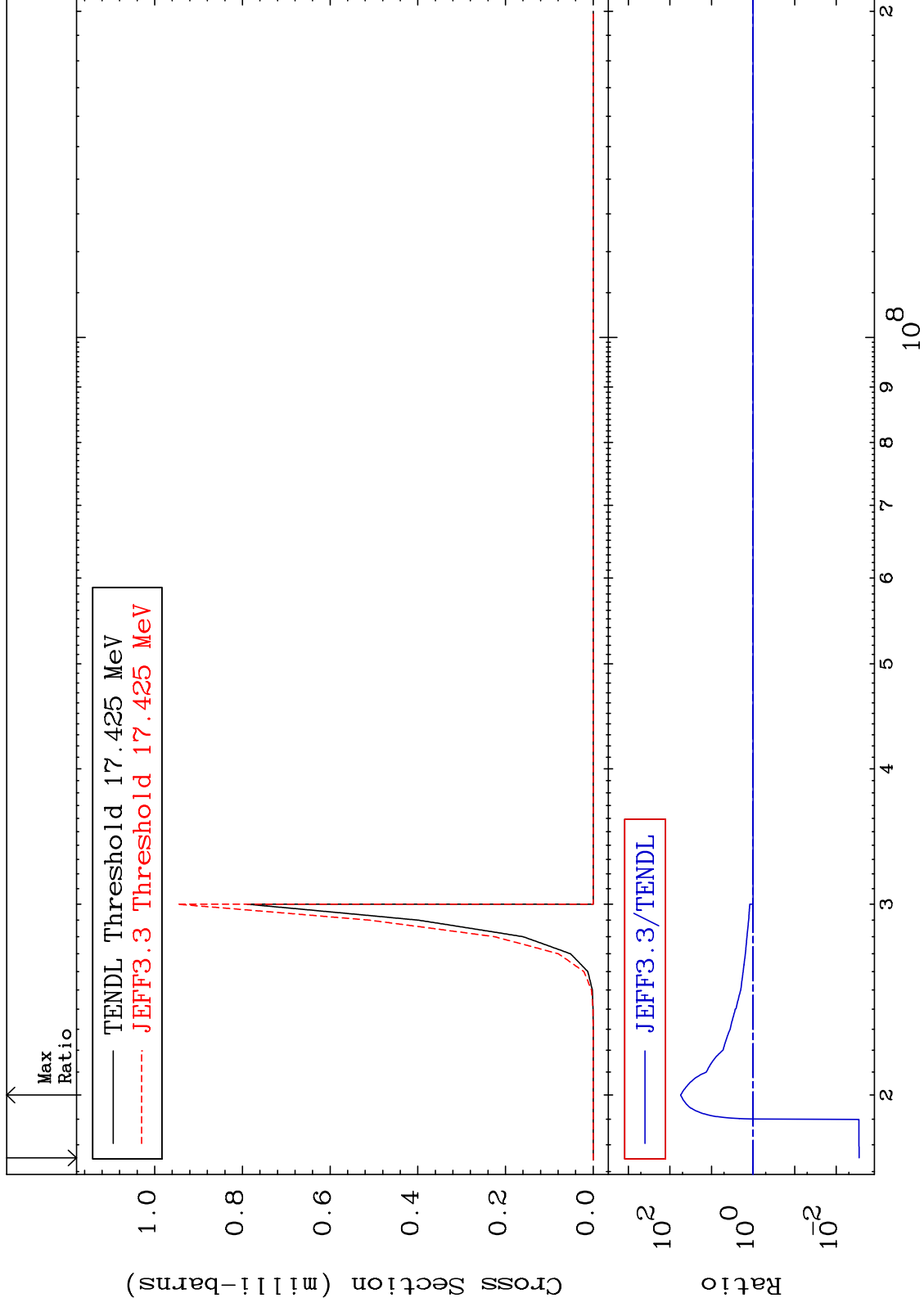
MAT 7119

(n,2n) d

71-Lu-173

Cross Section

-99.72 To 5430. %



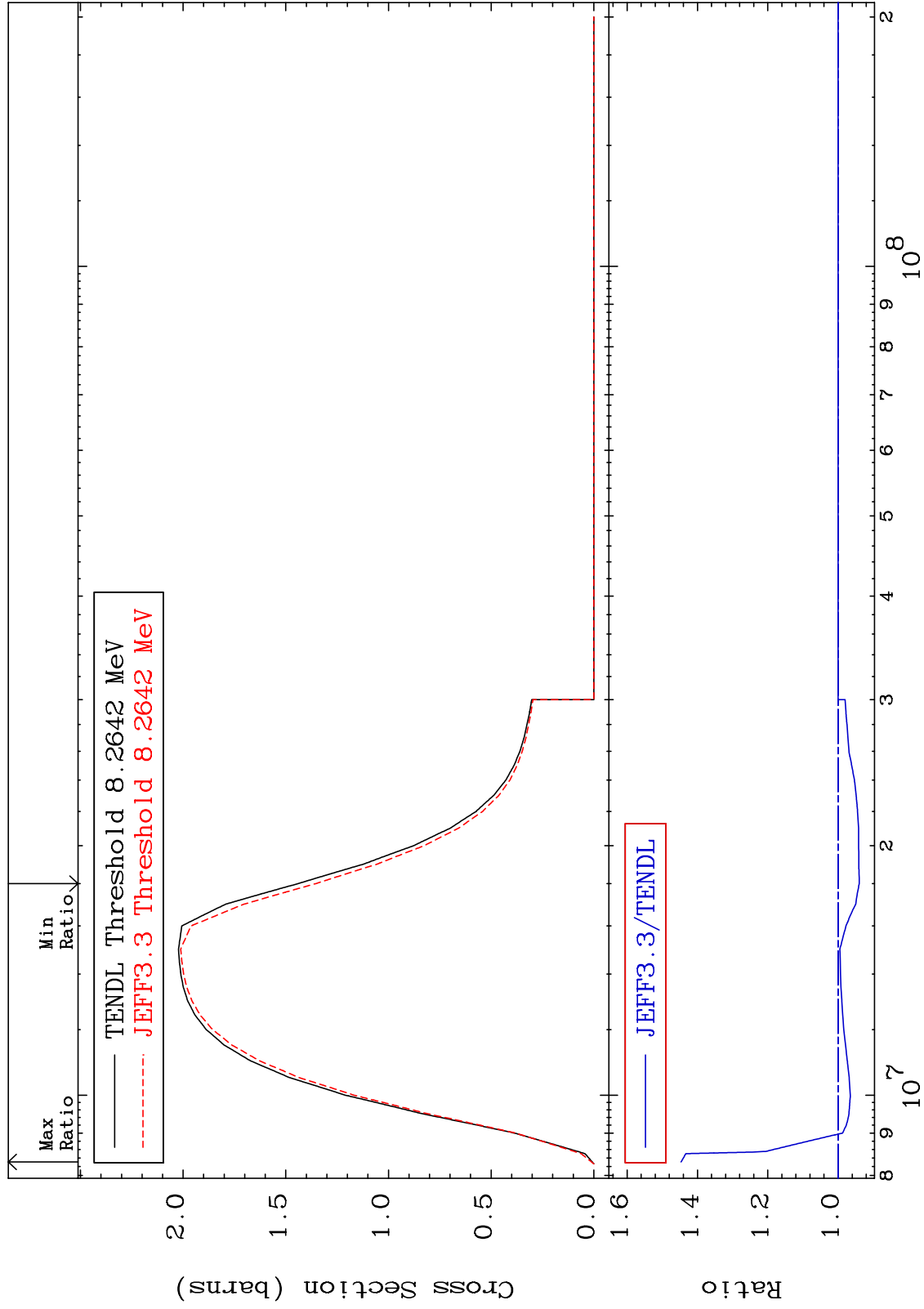
MAT 7119

(n, 2n)

⁷¹Lu-173

Cross Section

-6.023 To 44.66 %



⁷¹Lu-173

Incident Energy (eV)

5

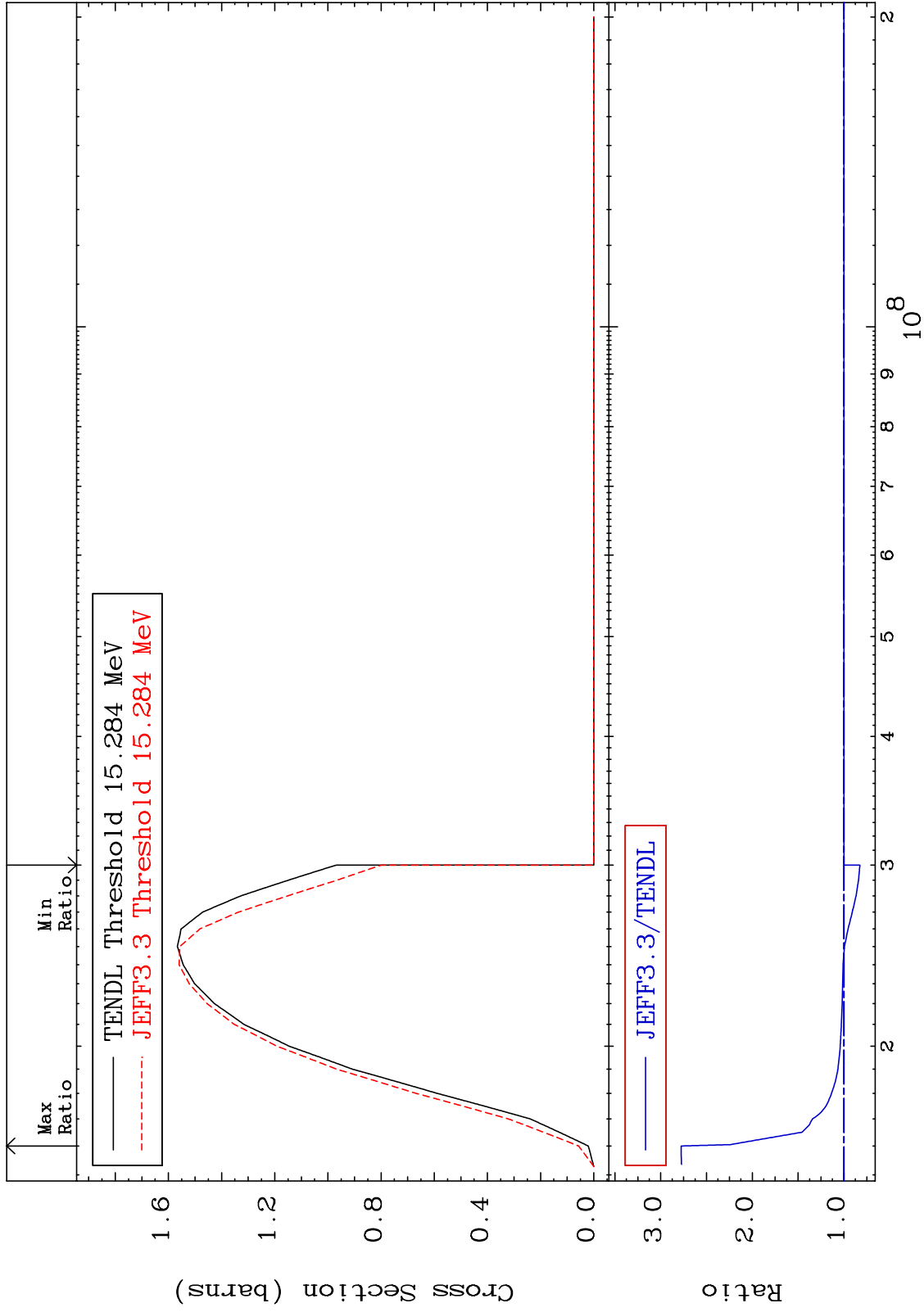
MAT 7119

(n,3n)

71-Lu-173

Cross Section

-17.50 To 177.6 %



6

71-Lu-173

71-Lu-173

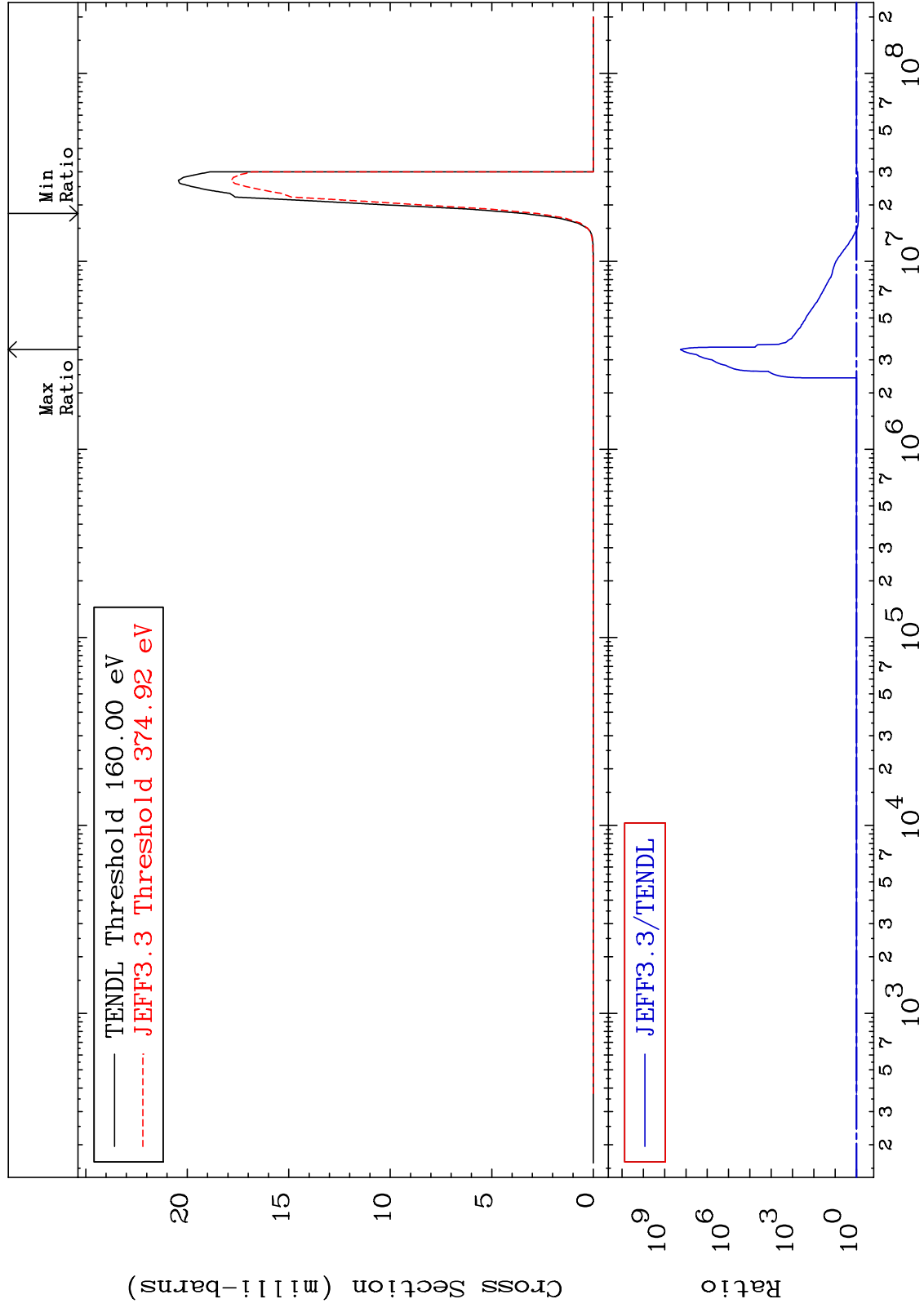
MAT 7119

(n, n') α

71-Lu-173

Cross Section

-19.14 To 9999. %



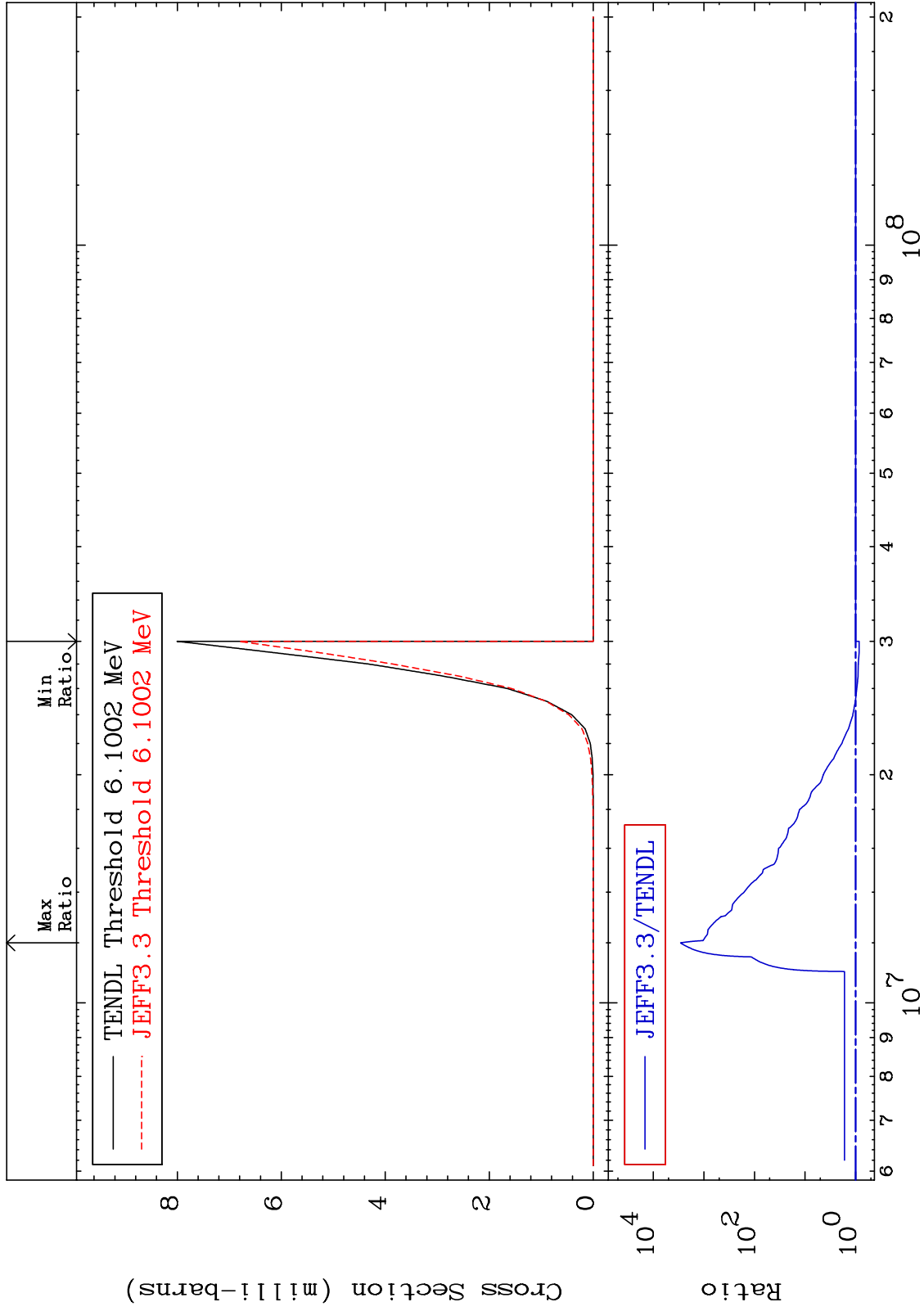
MAT 7119

(n,2n) α

⁷¹Lu-173

-14.76 To 9999. %

Cross Section



⁷¹Lu-173

Incident Energy (eV)

8

MAT 7119

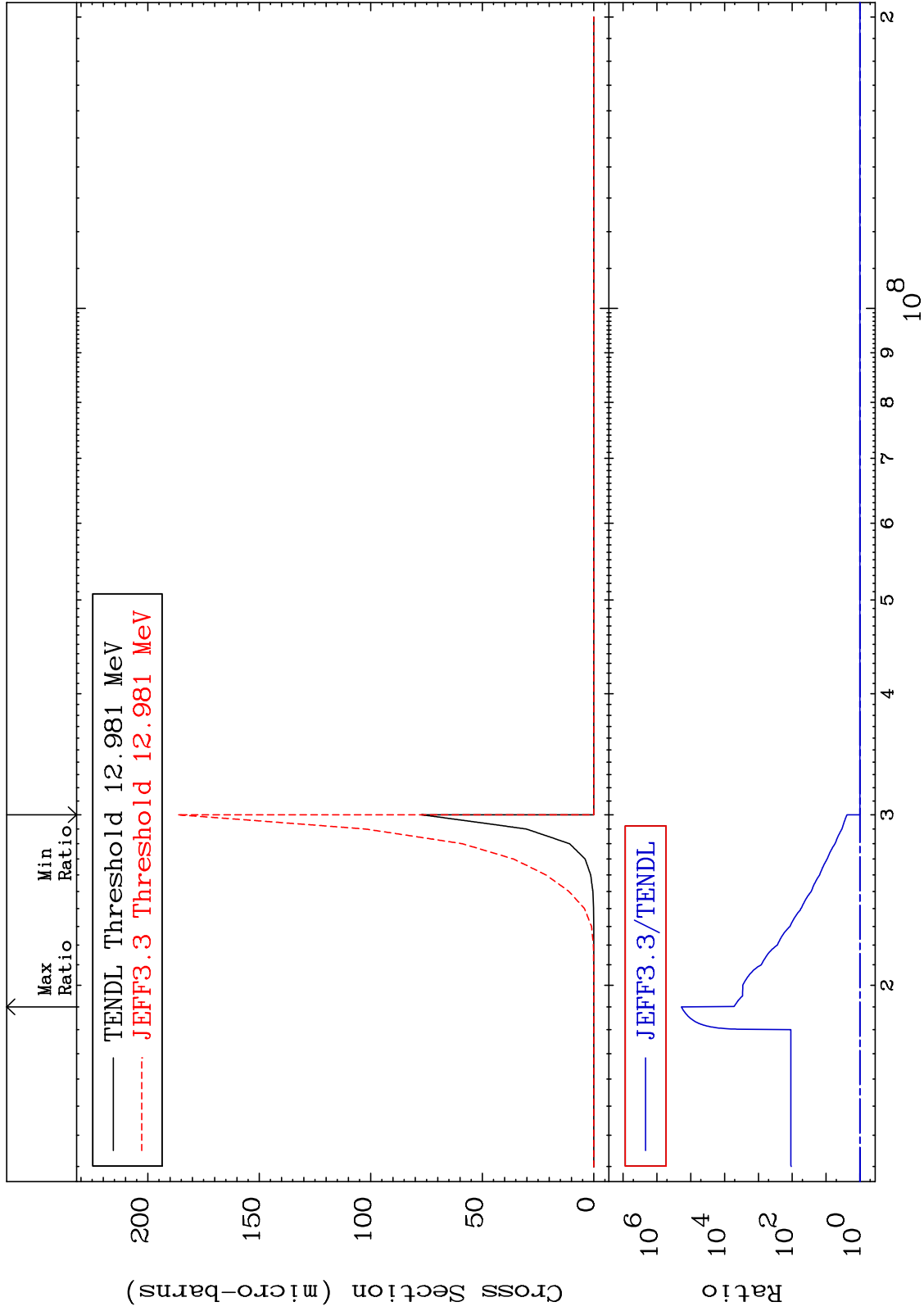
(n,3n) α

71-Lu-173

Cross Section

0.000

To 9999. %



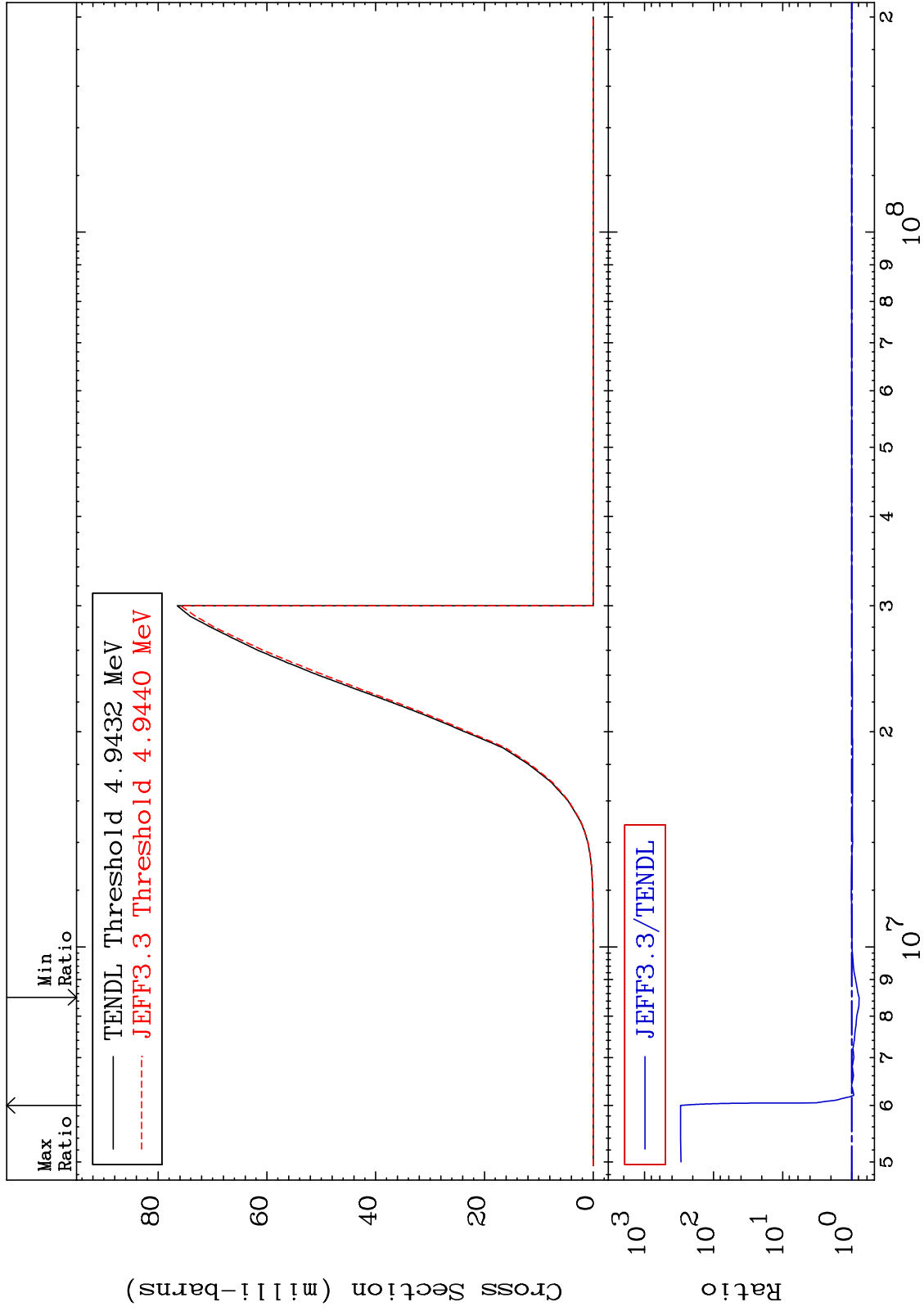
MAT 7119

(n,n') p

71-Lu-173

Cross Section

-22.07 To 9999. %



10

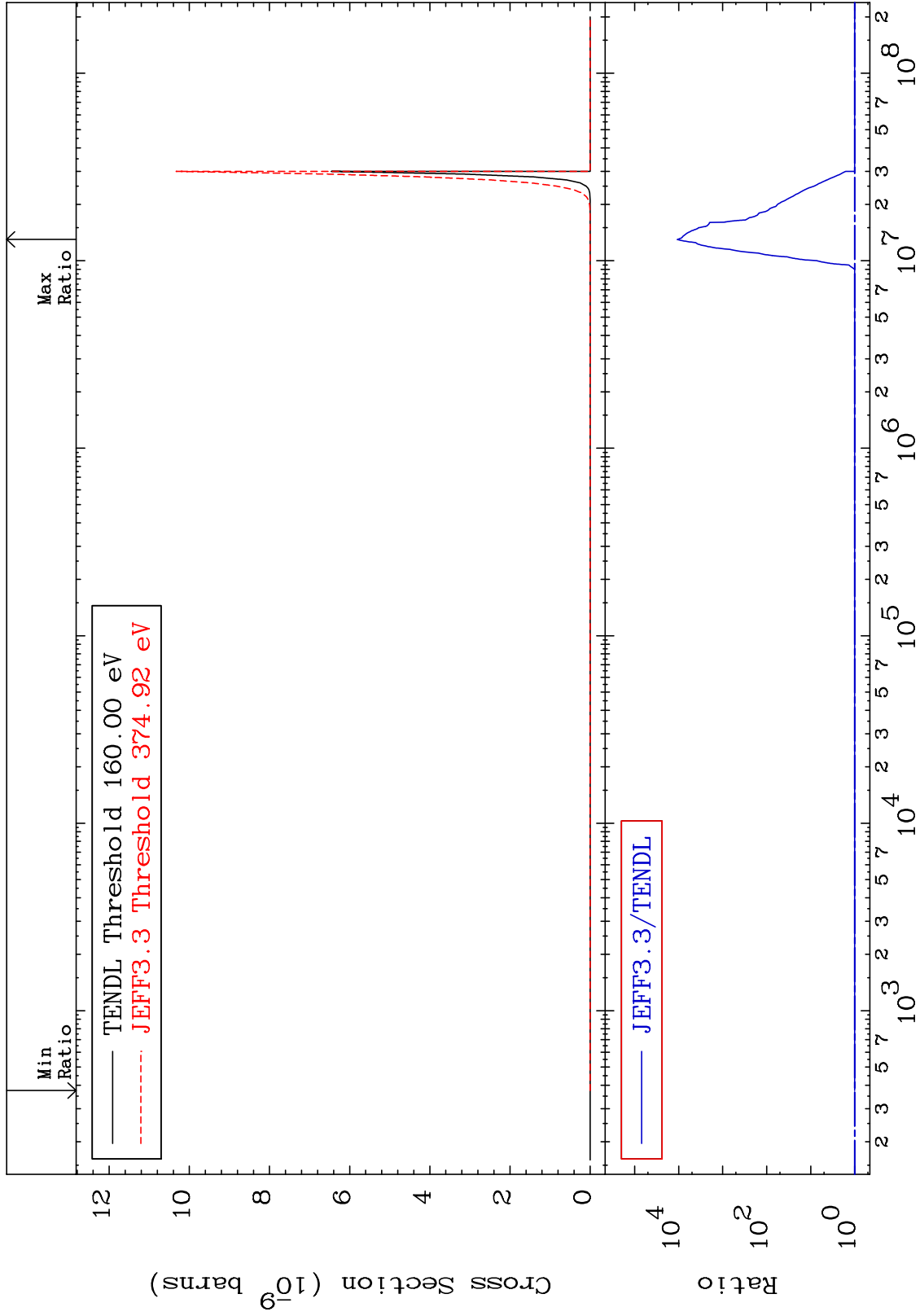
Incident Energy (eV)

71-Lu-173

MAT 7119

(n, n') 2α
Cross Section

71-Lu-173
To 9999. %



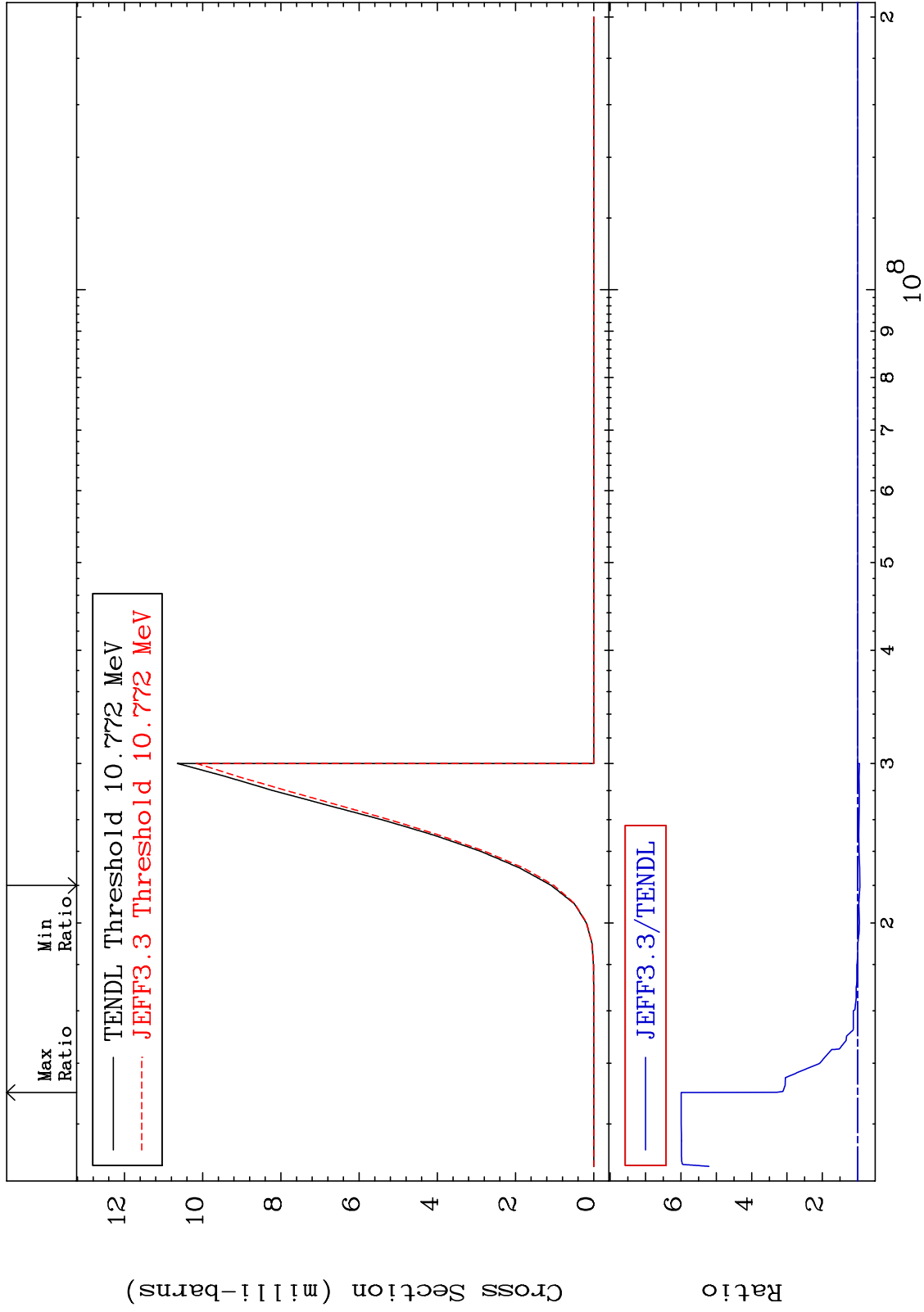
MAT 7119

(n, n') d

⁷¹Lu-173

Cross Section

-6.194 To 499.1 %



12

Incident Energy (eV)

⁷¹Lu-173

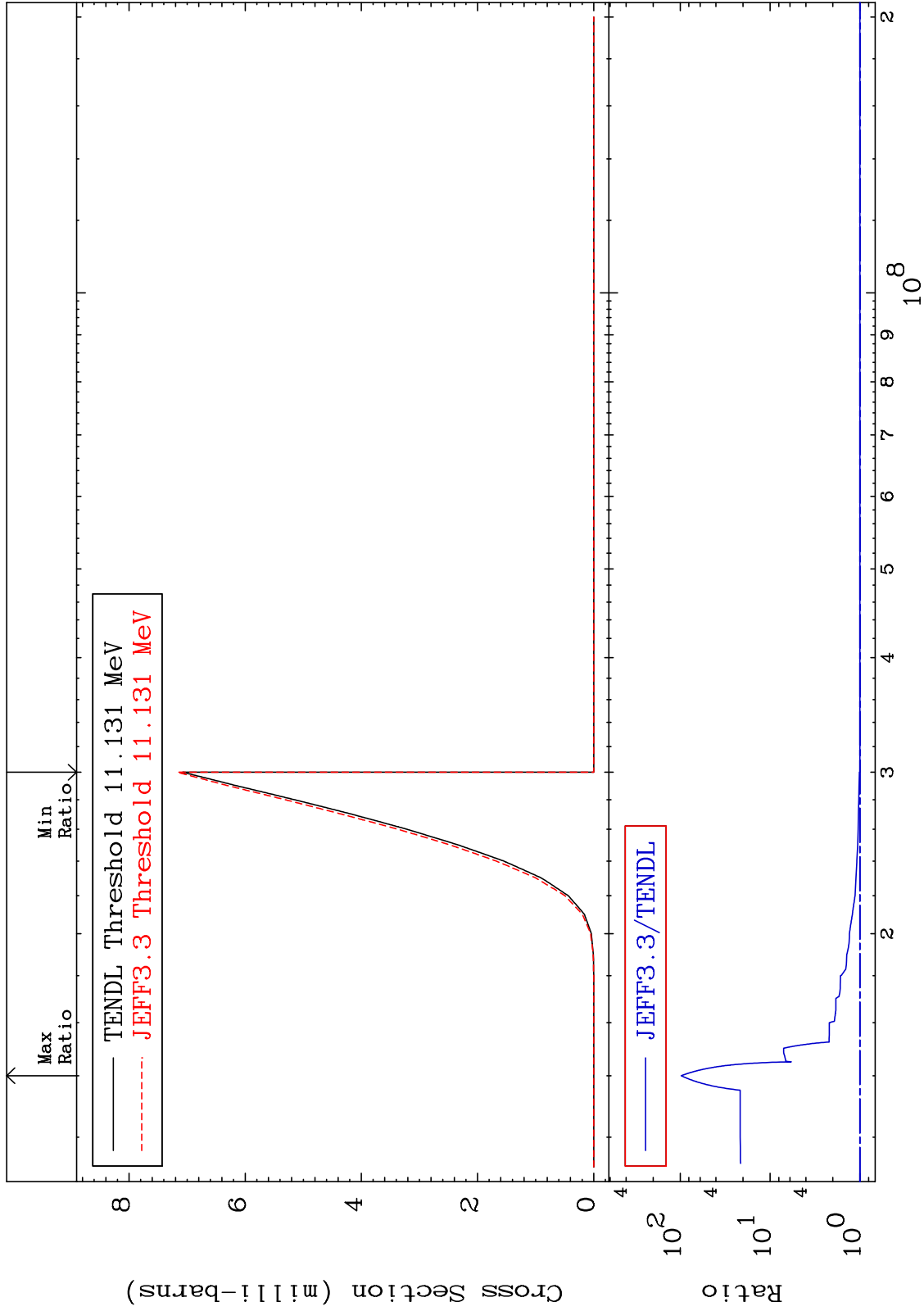
MAT 7119

(n,n') t

71-Lu-173

Cross Section

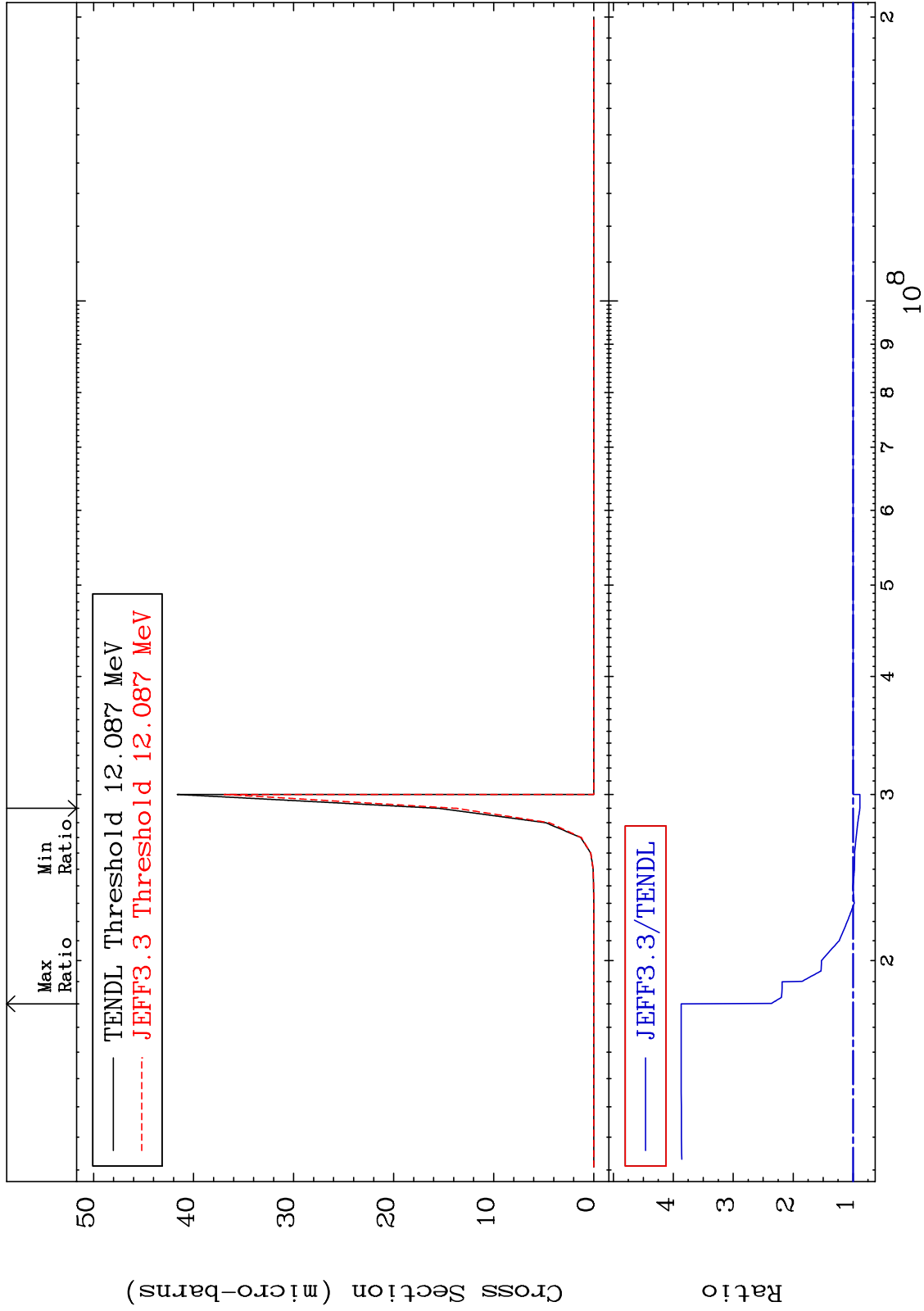
0.000 To 9635. %



MAT 7119

(n, n') He-3
Cross Section

71-Lu-173
-11.43 To 286.7 %



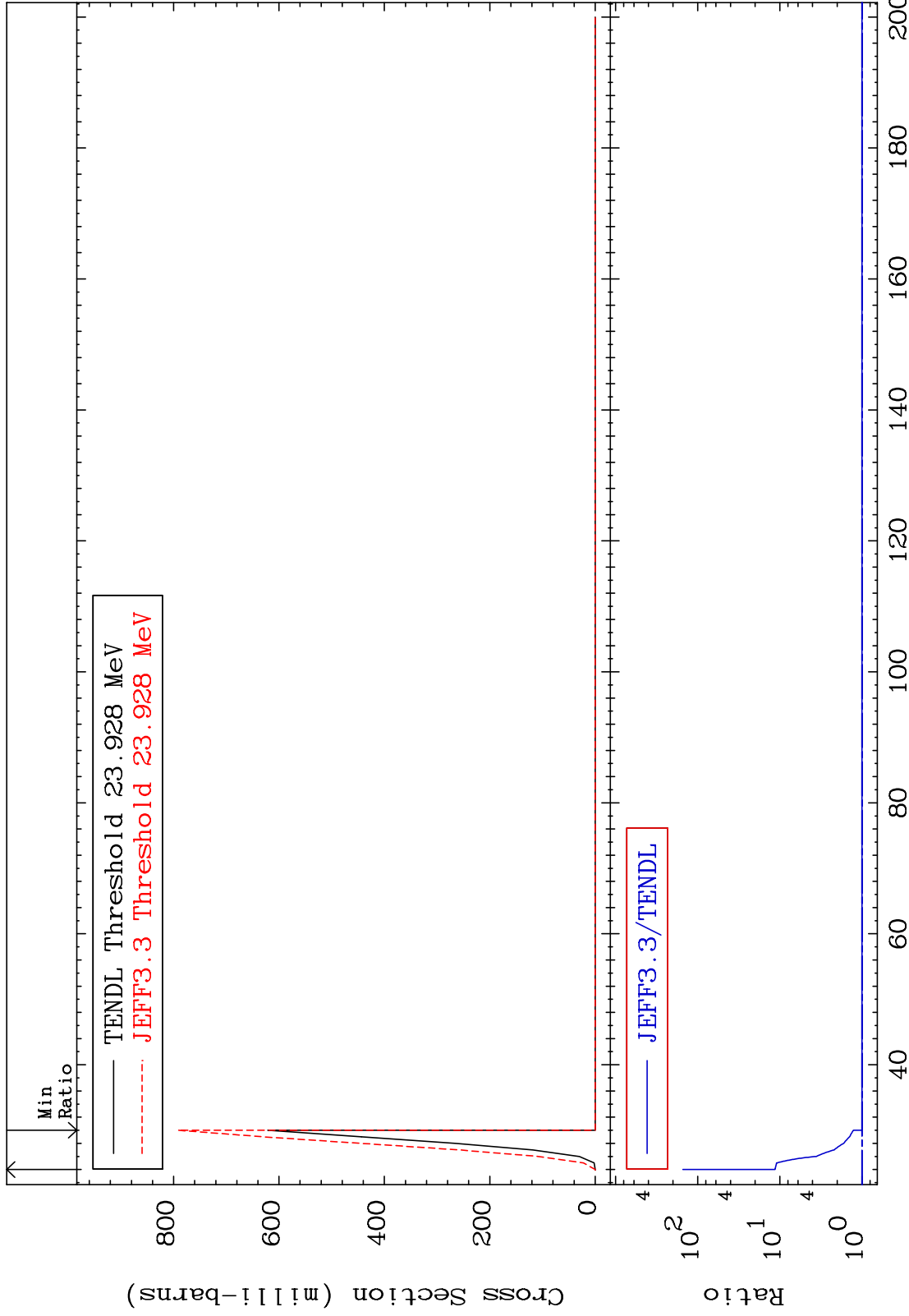
MAT 7119

(n, 4n)

⁷¹Lu-173

Cross Section

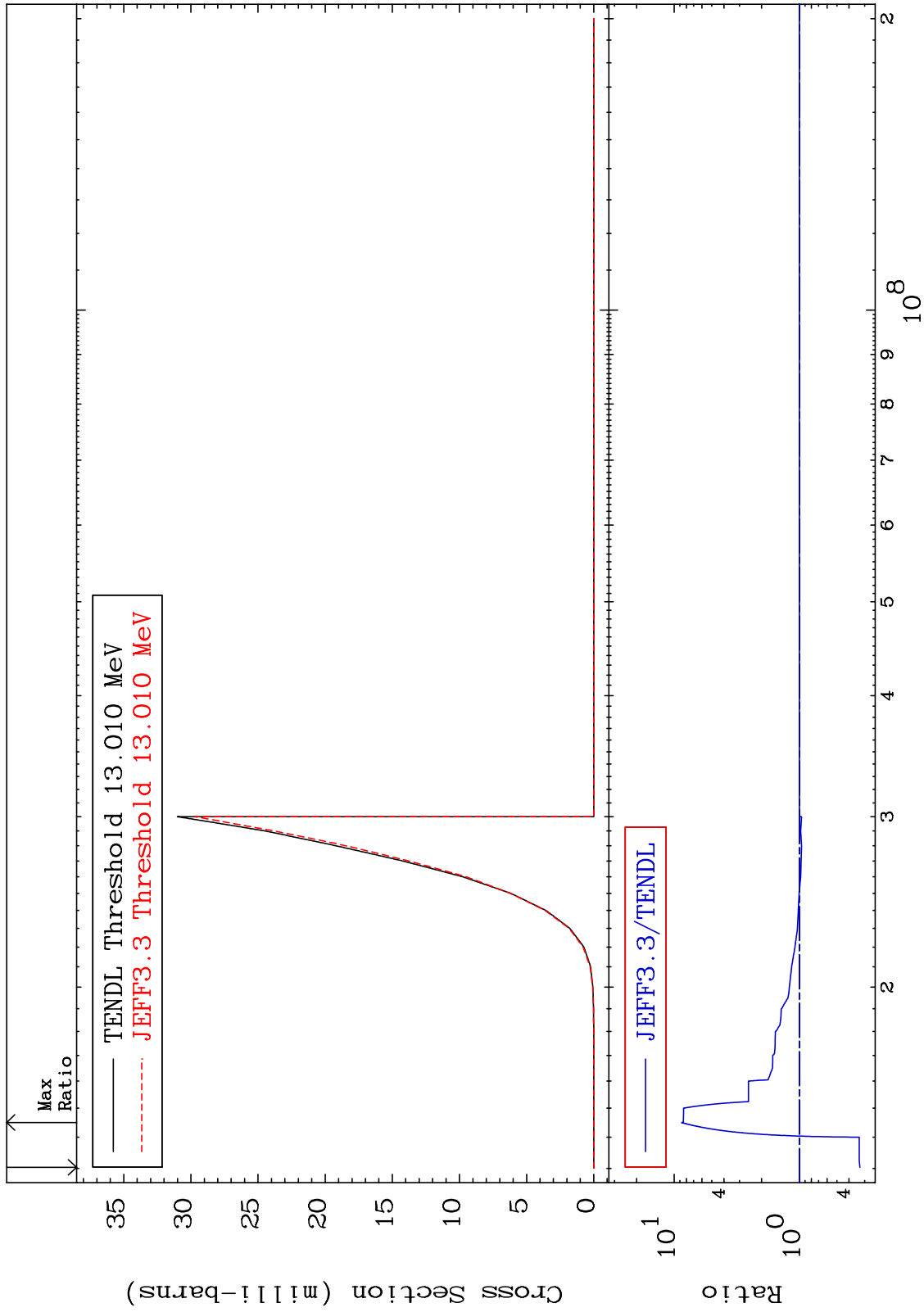
0.000 To 9999. %



MAT 7119

(n,2n) p
Cross Section

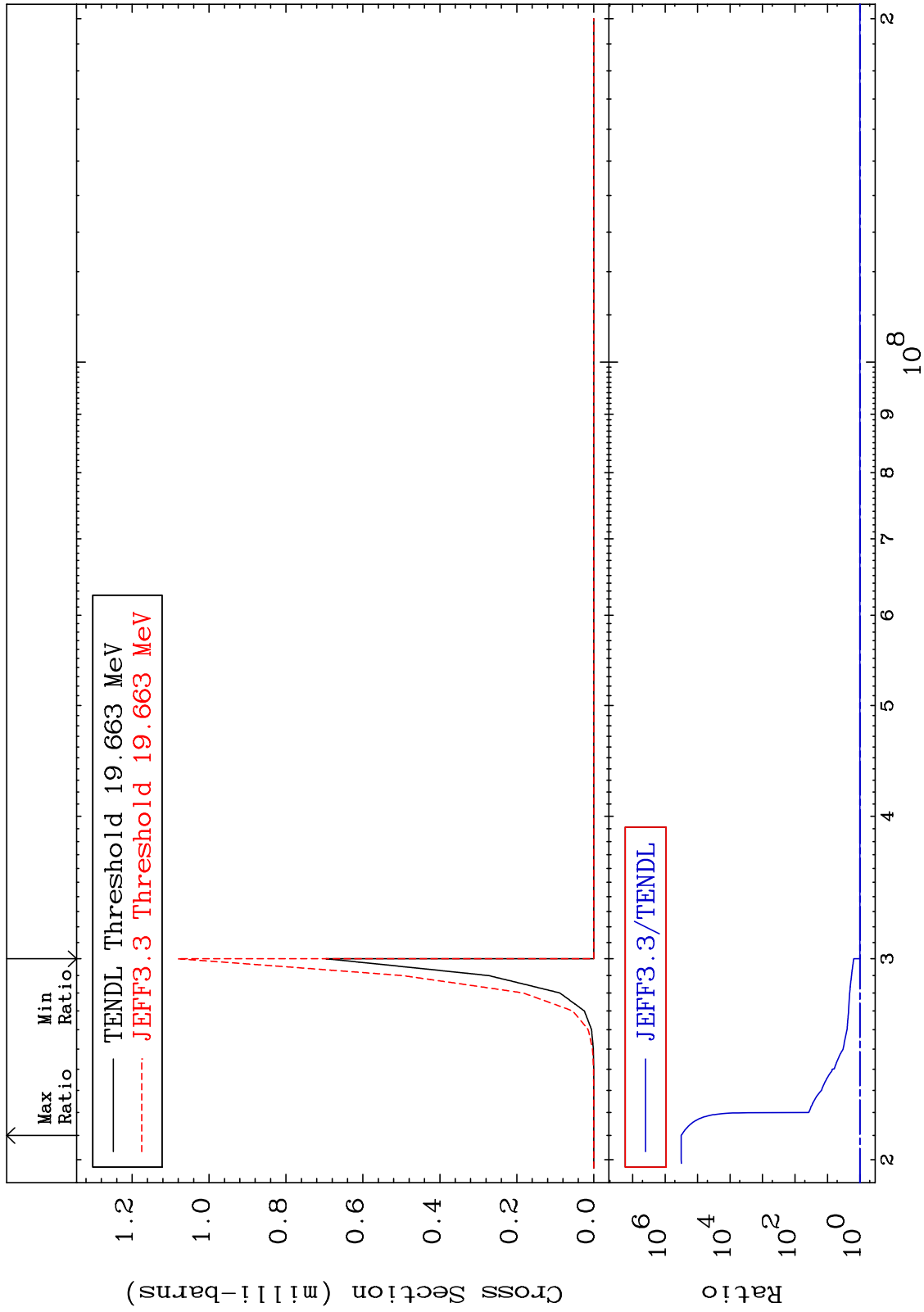
71-Lu-173
-67.27 To 778.4 %



MAT 7119

(n,3n) p
Cross Section

71-Lu-173
0.000 To 9999. %



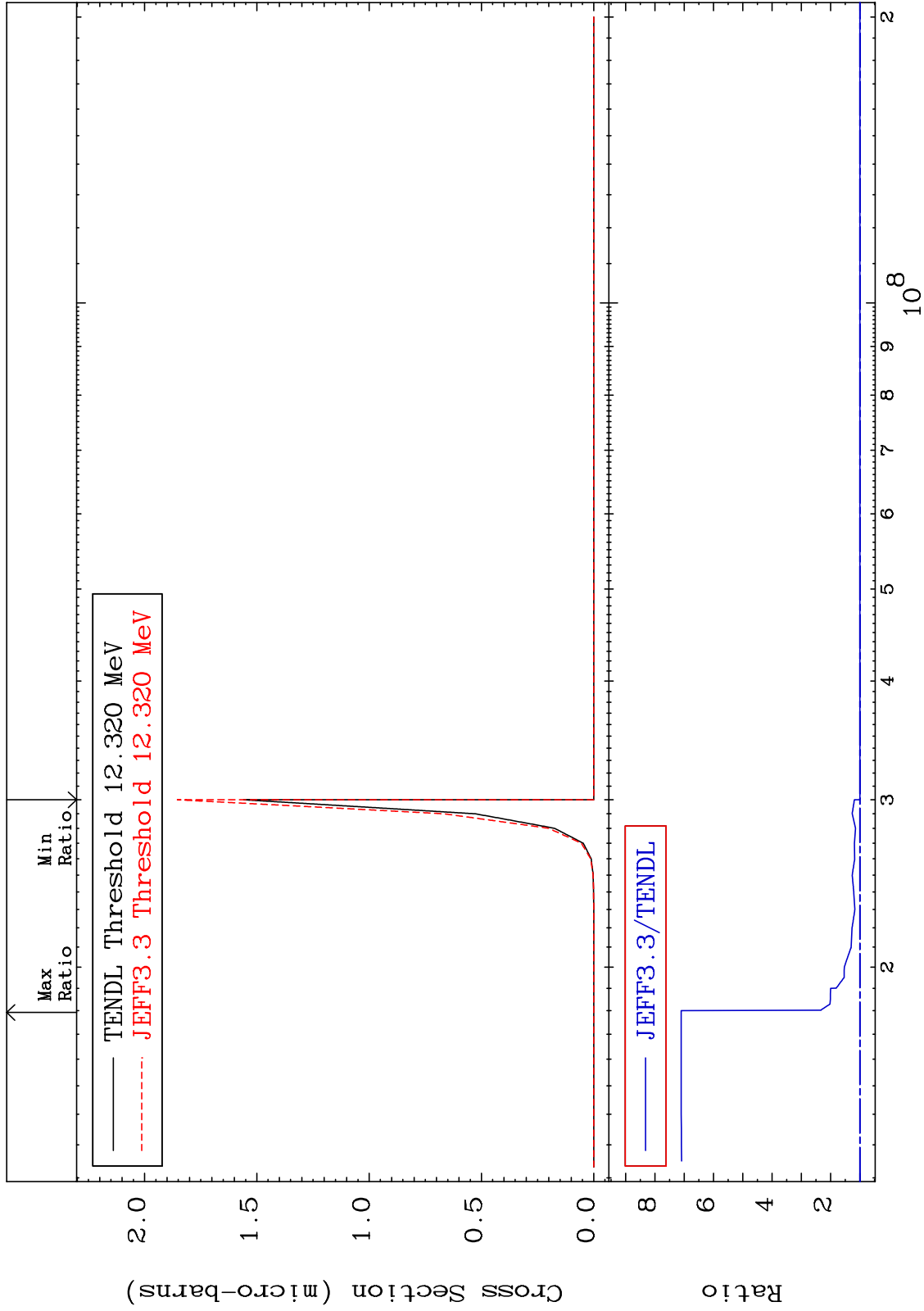
MAT 7119

(n,2n) p

⁷¹Lu-173

Cross Section

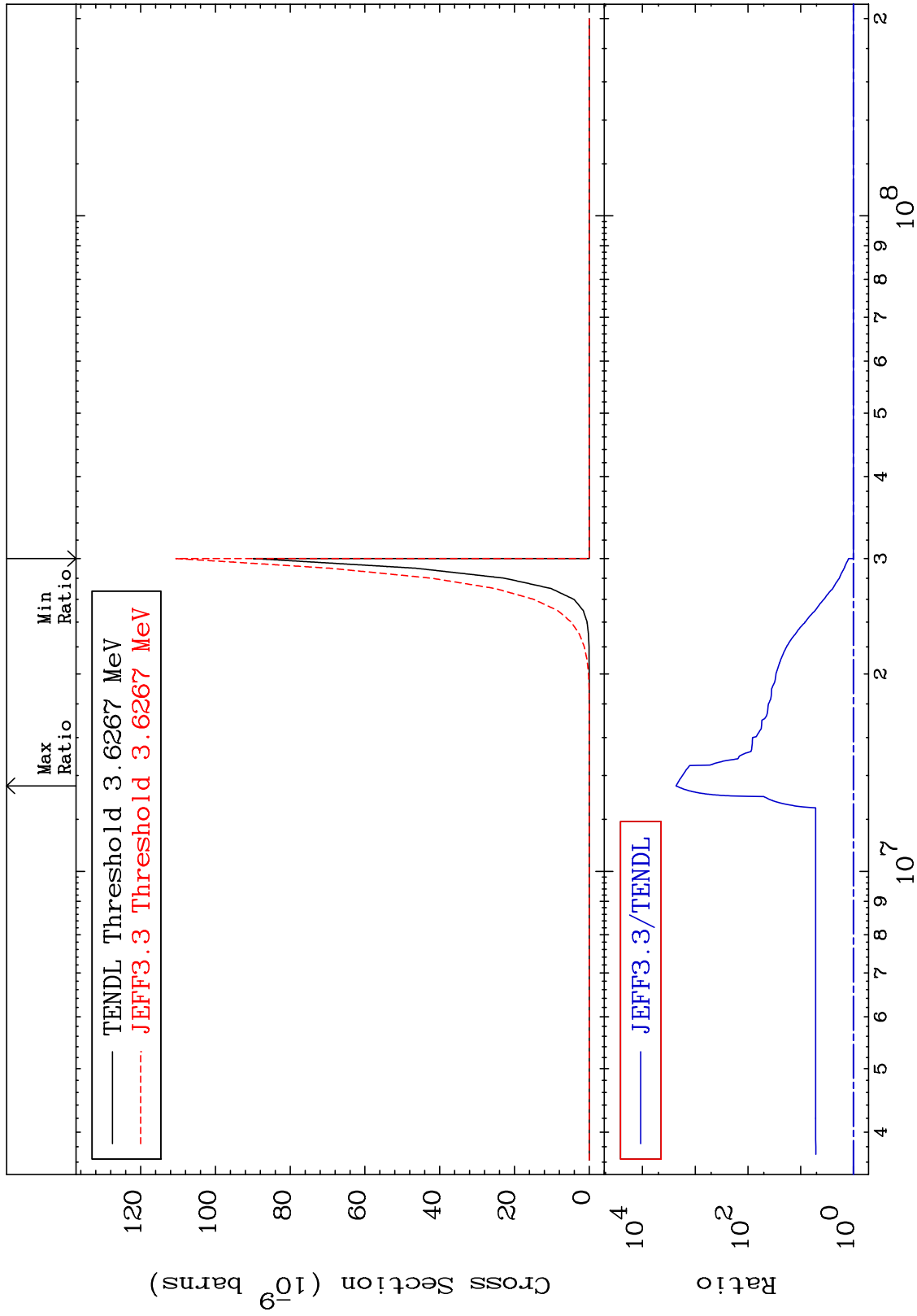
0.000 To 610.4 %



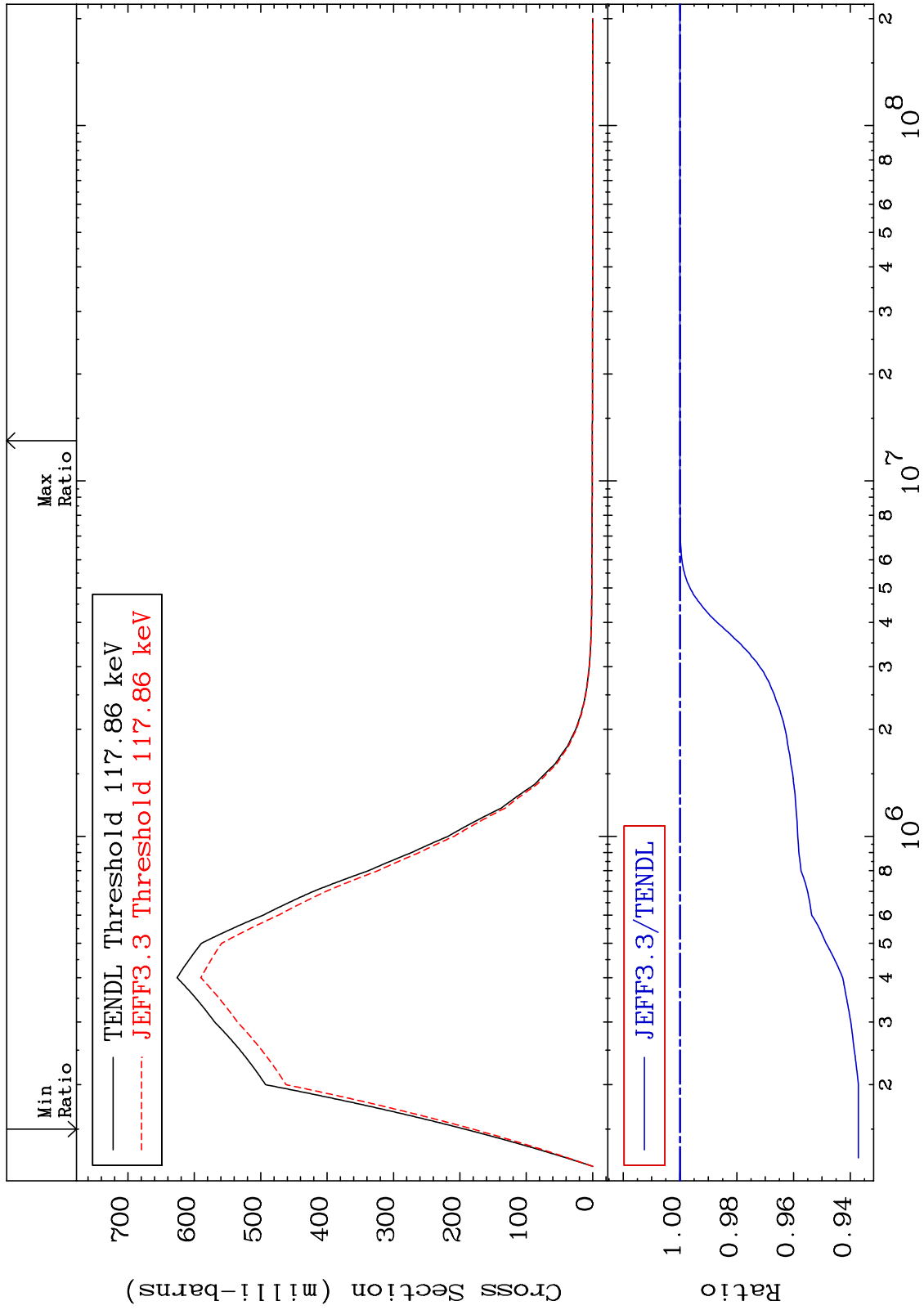
MAT 7119

(n, n') p α
Cross Section

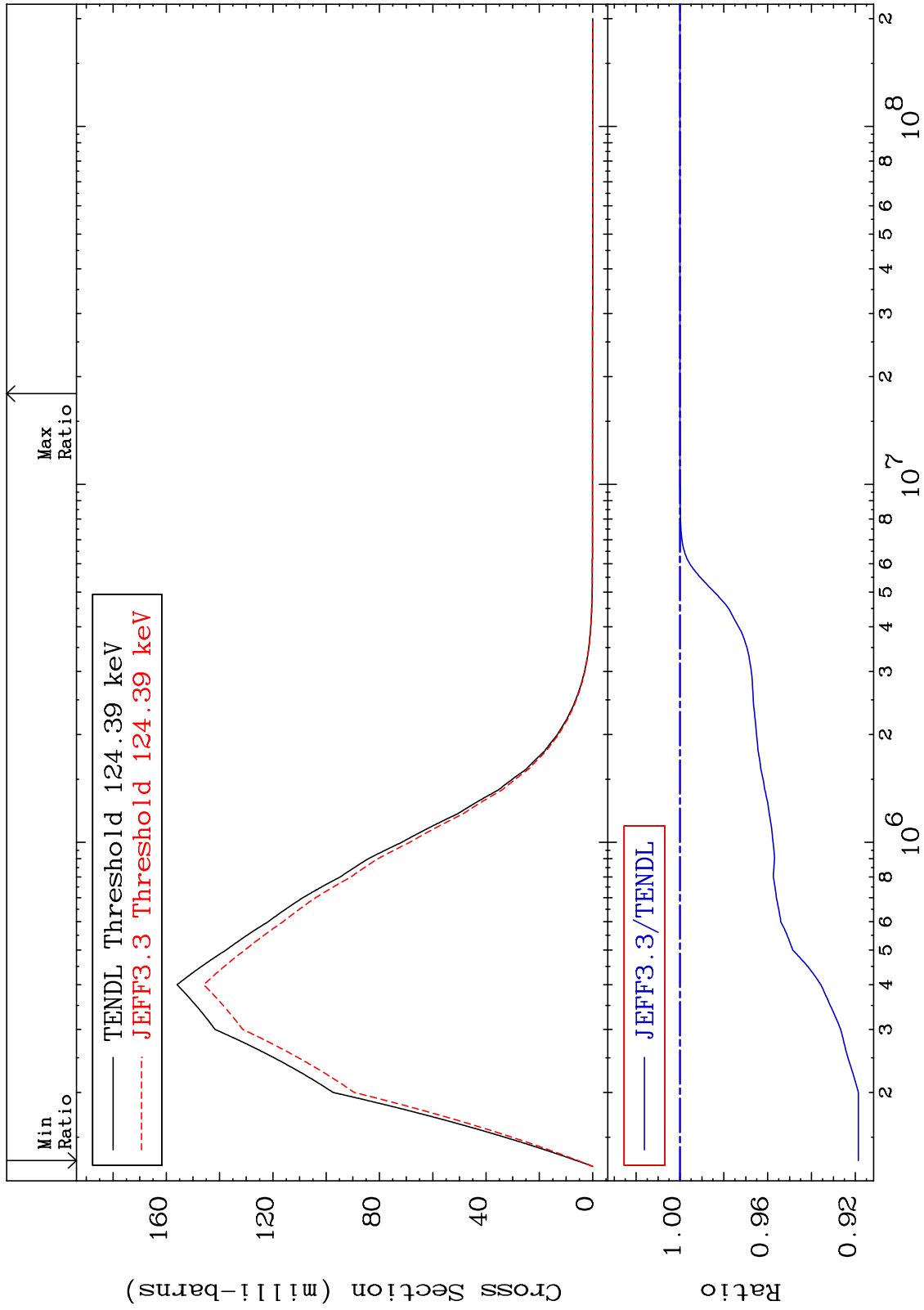
71-Lu-173
0.000 To 9999. %



MAT 7119 MT= 51 (n,n') Level Cross Section 71-Lu-173 -6.284 To 0.000 %



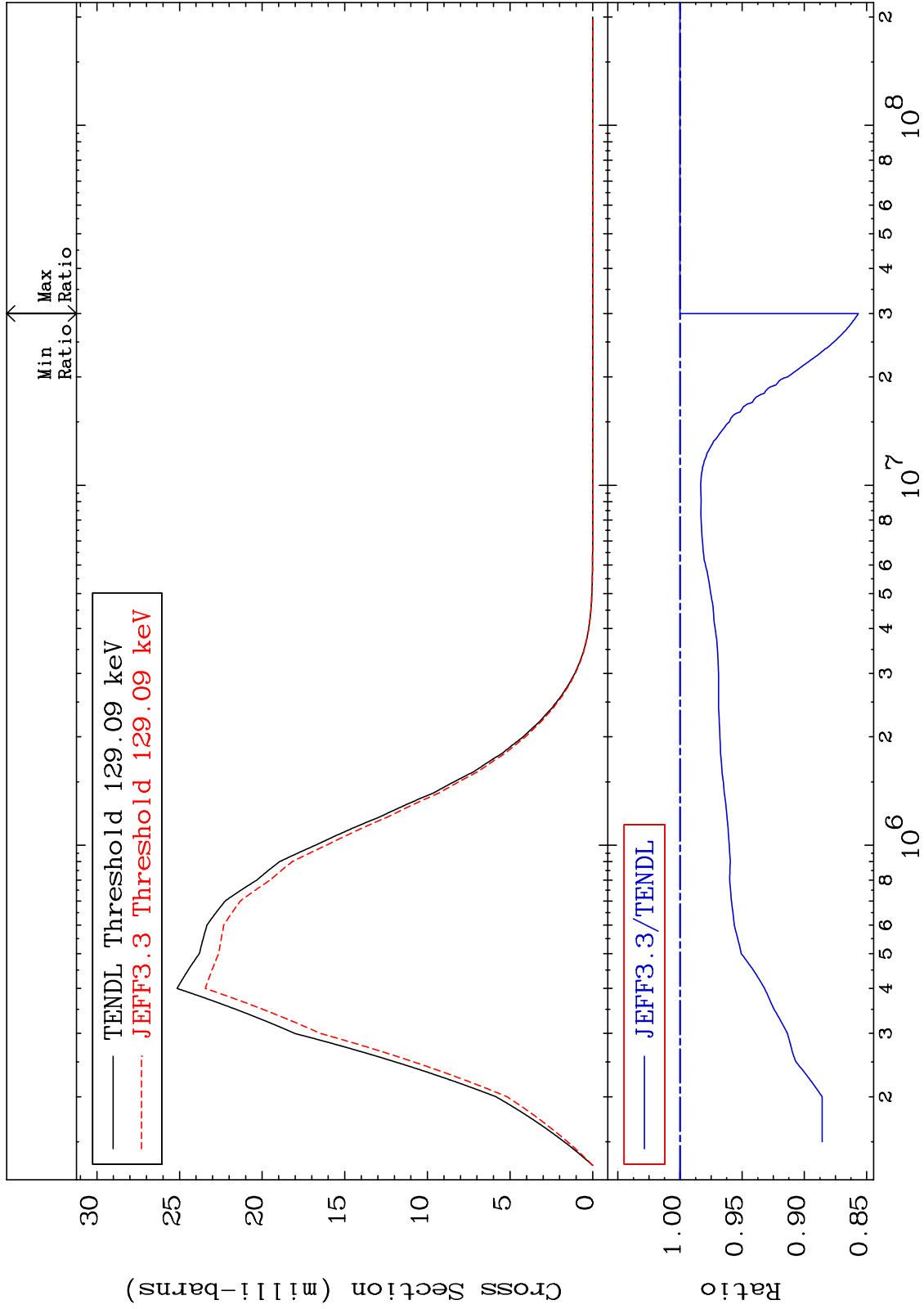
MAT 7119 MT= 52 (n,n') Level Cross Section 71-Lu-173 -8.138 To 0.000 %



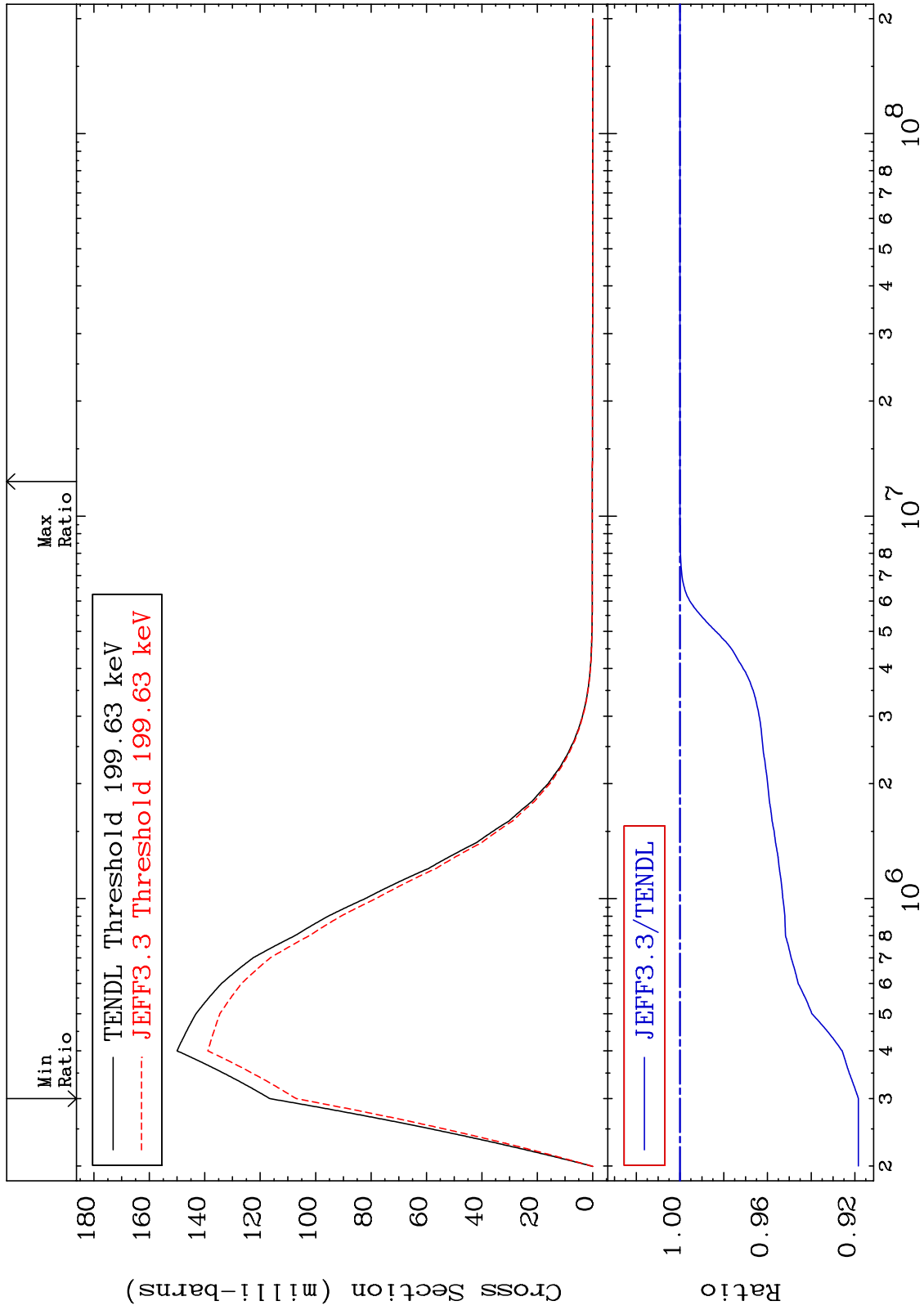
MAT 7119

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

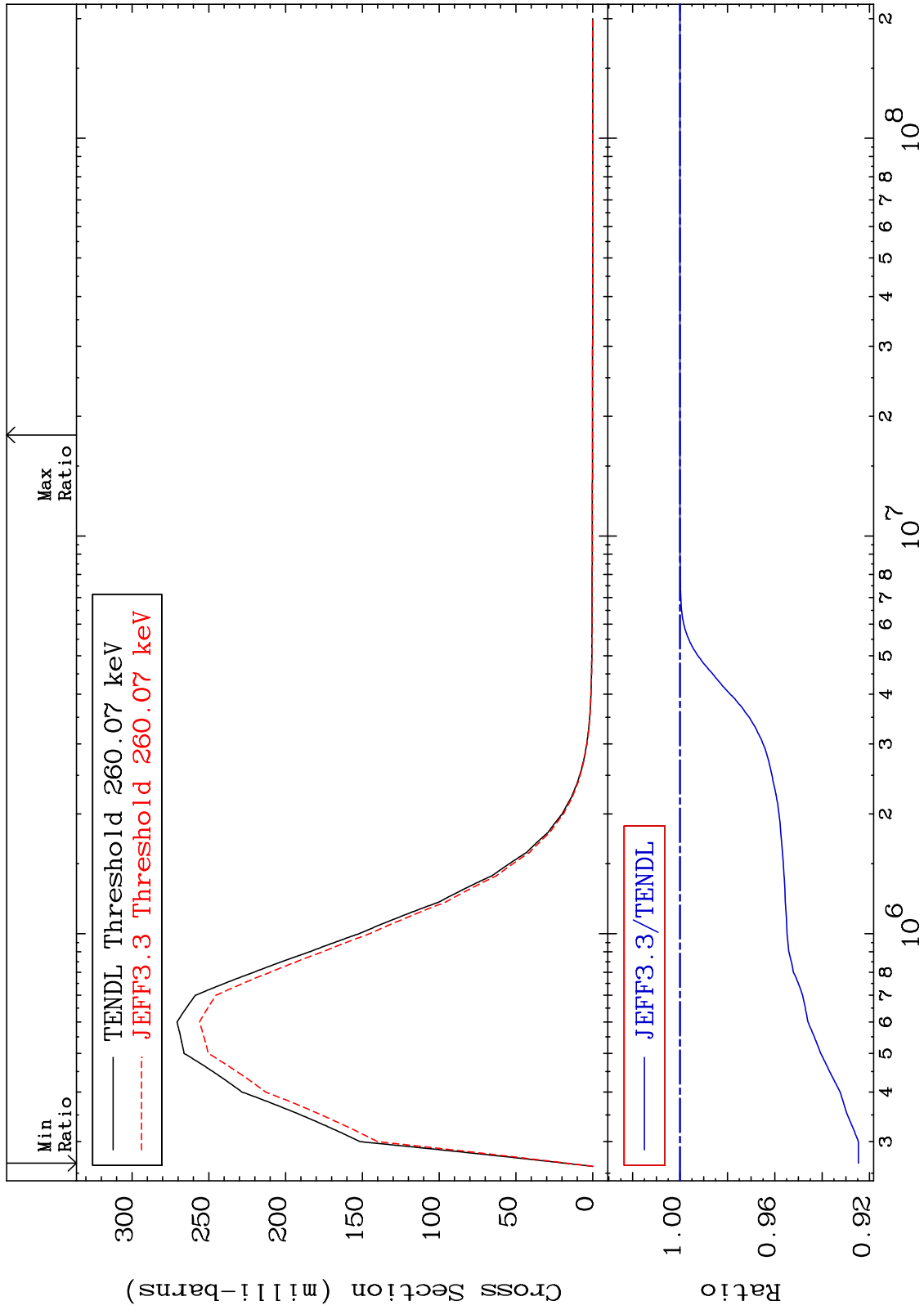
71-Lu-173
-14.35 To 0.000 %

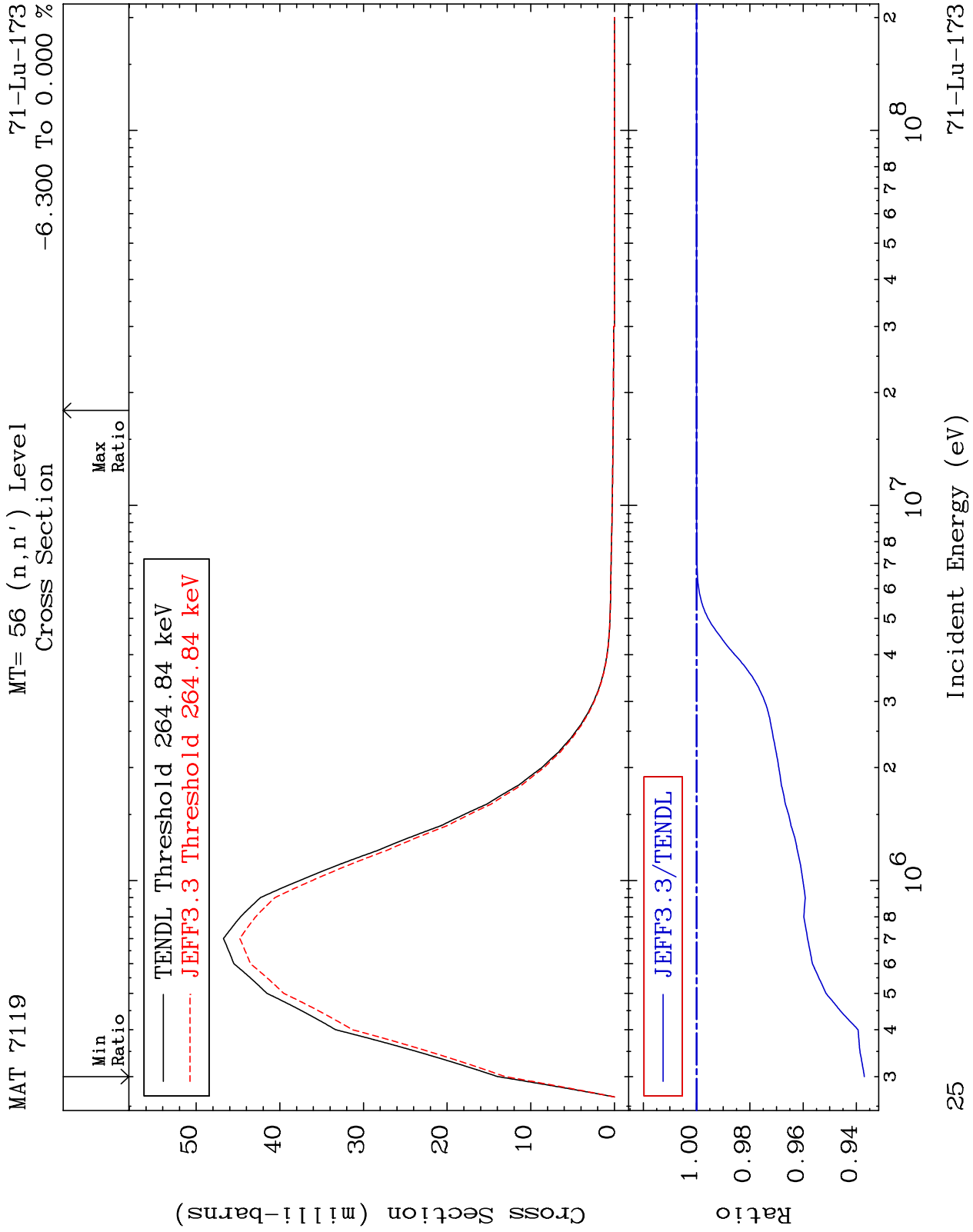


MAT 7119 MT= 54 (n,n') Level Cross Section -8.162 To 0.000 % 71-Lu-173

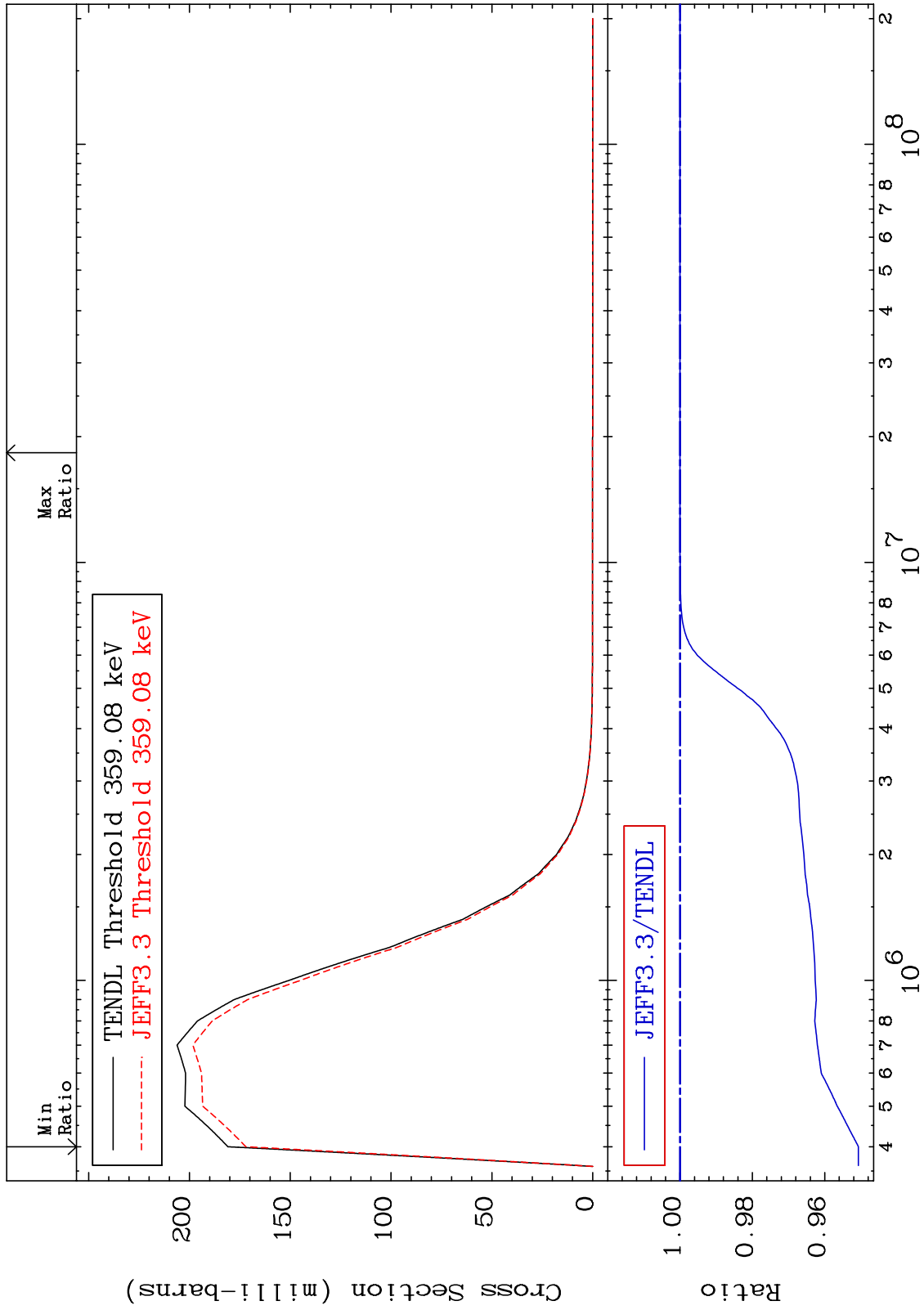


MAT 7119 MT= 55 (n,n') Level Cross Section 71-Lu-173 -7.529 To 0.000 %



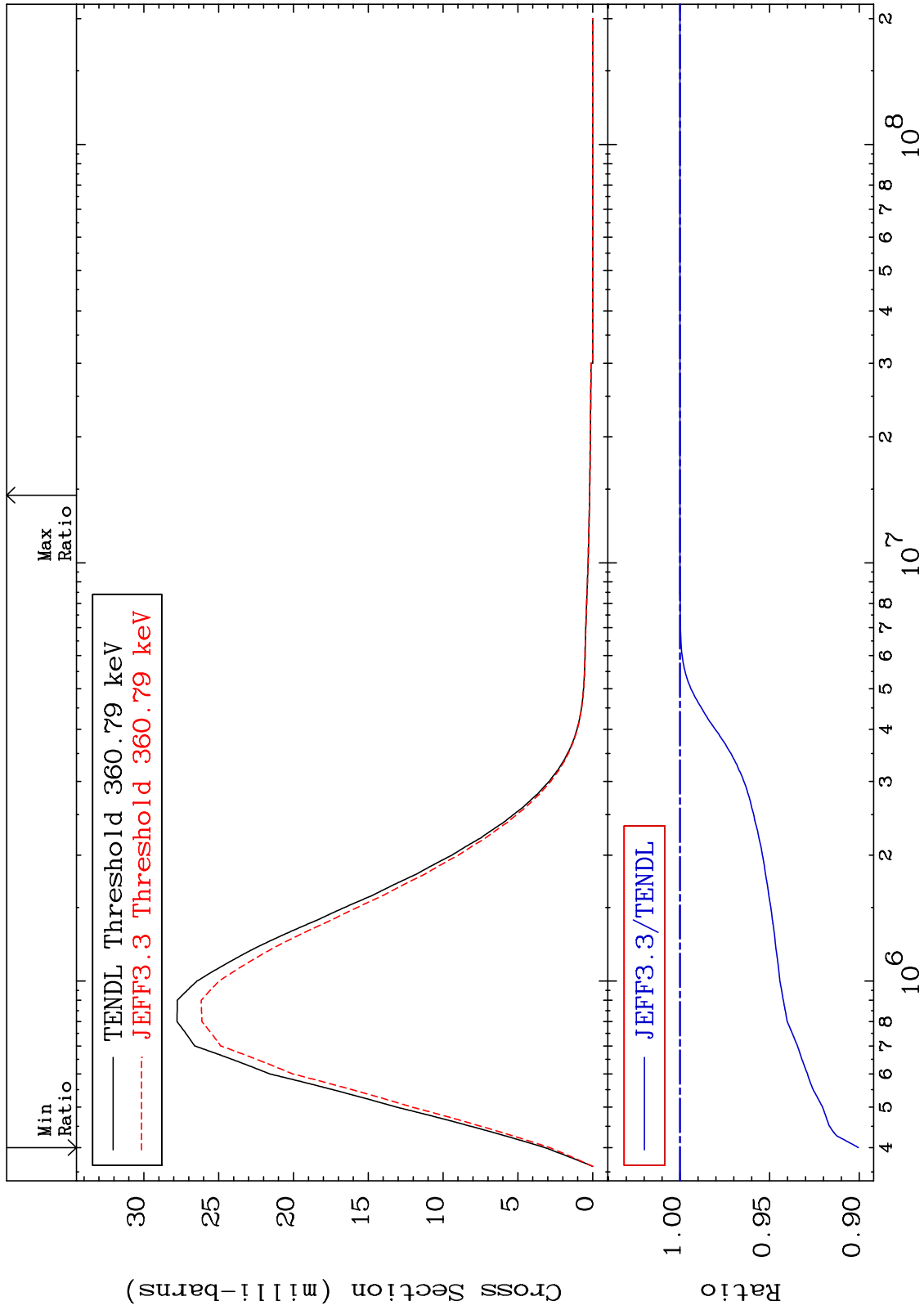


MAT 7119 MT= 57 (n,n') Level Cross Section 71-Lu-173 -4.930 To 0.000 %

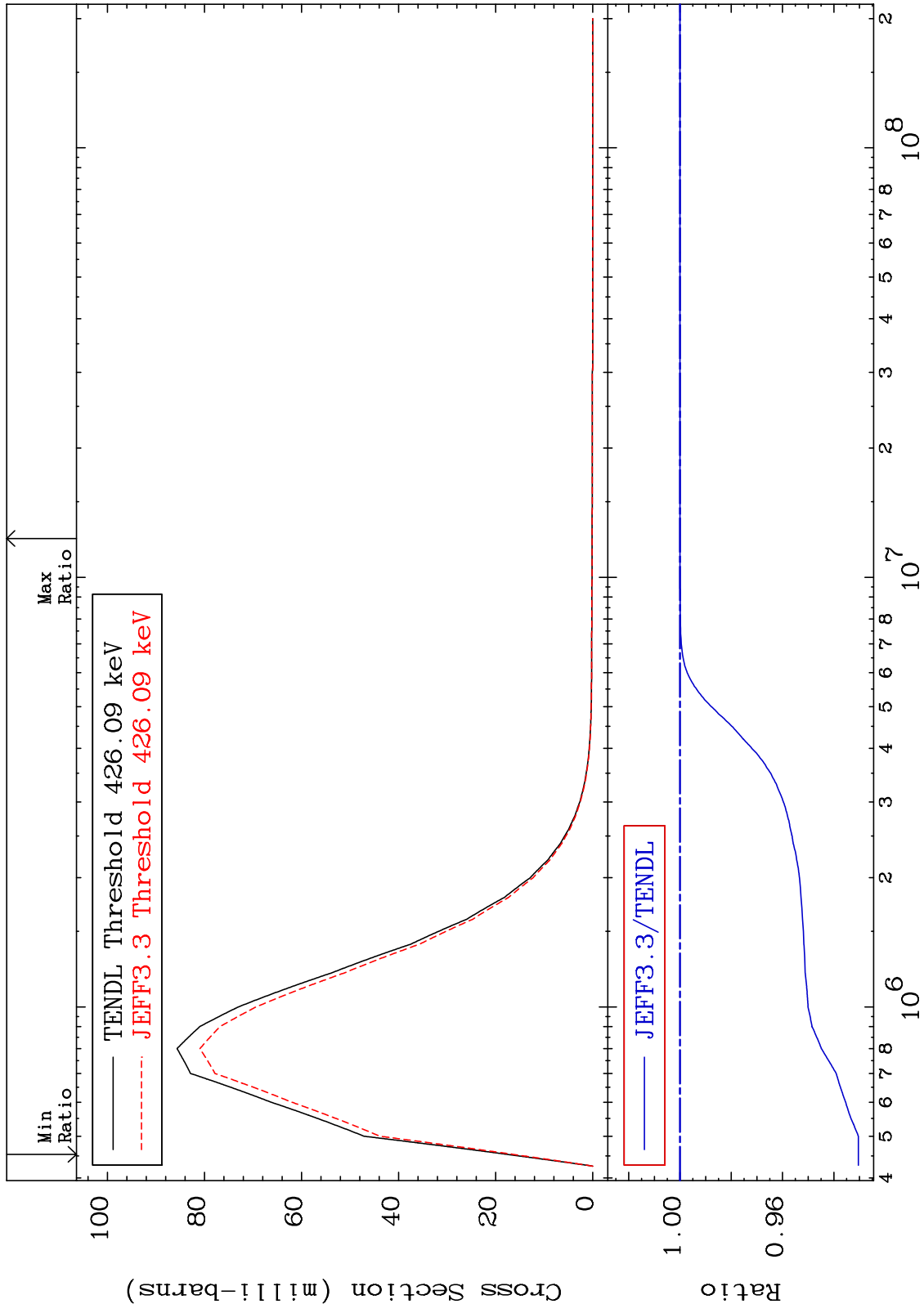


Incident Energy (eV) 71-Lu-173

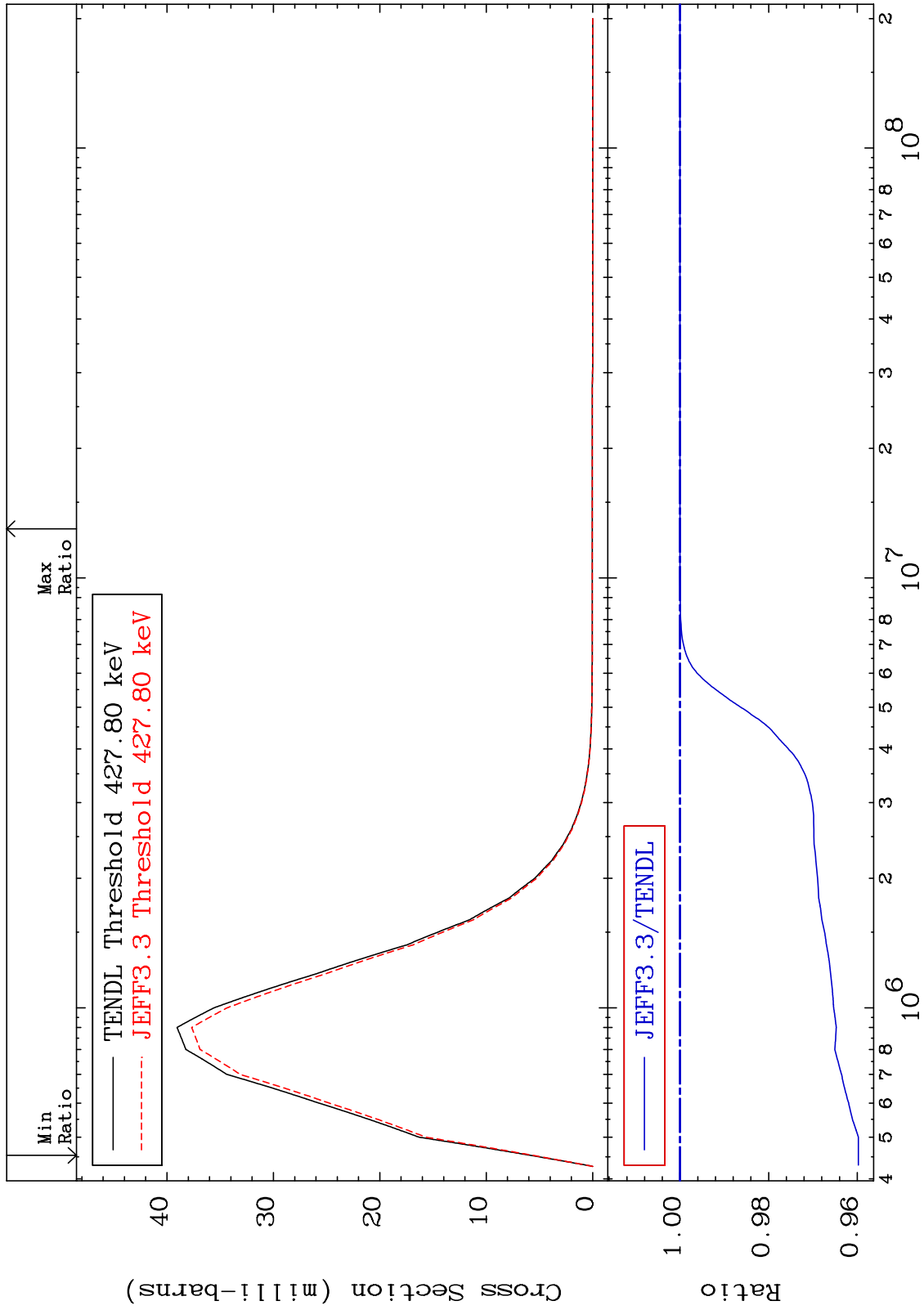
MAT 7119 MT= 58 (n,n') Level Cross Section 71-Lu-173 -9.950 To 0.000 %



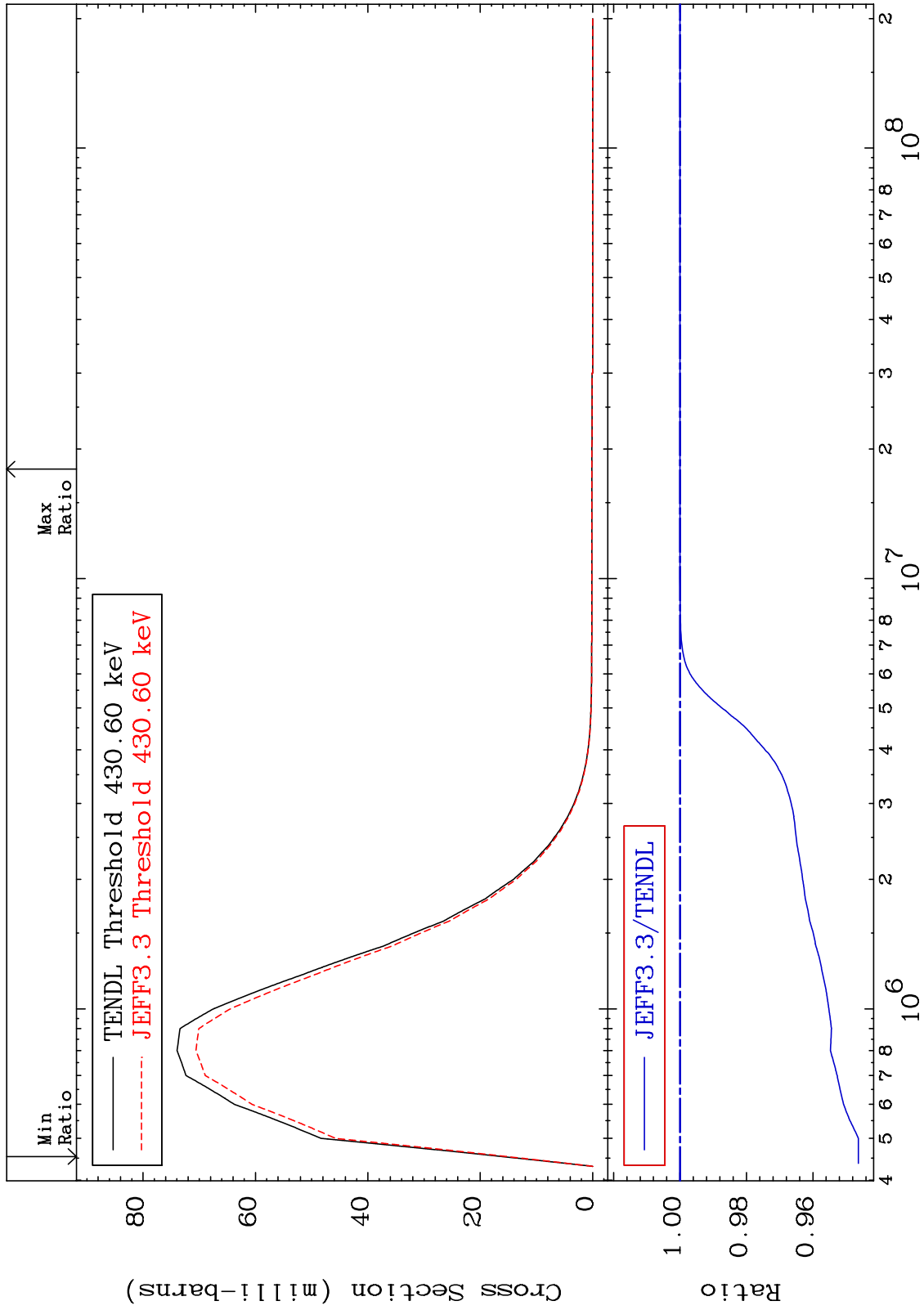
MAT 7119 MT= 59 (n, n') Level Cross Section -6.959 To 0.000 % 71-Lu-173



MAT 7119 MT= 60 (n, n') Level Cross Section -4.027 To 0.000 % 71-Lu-173

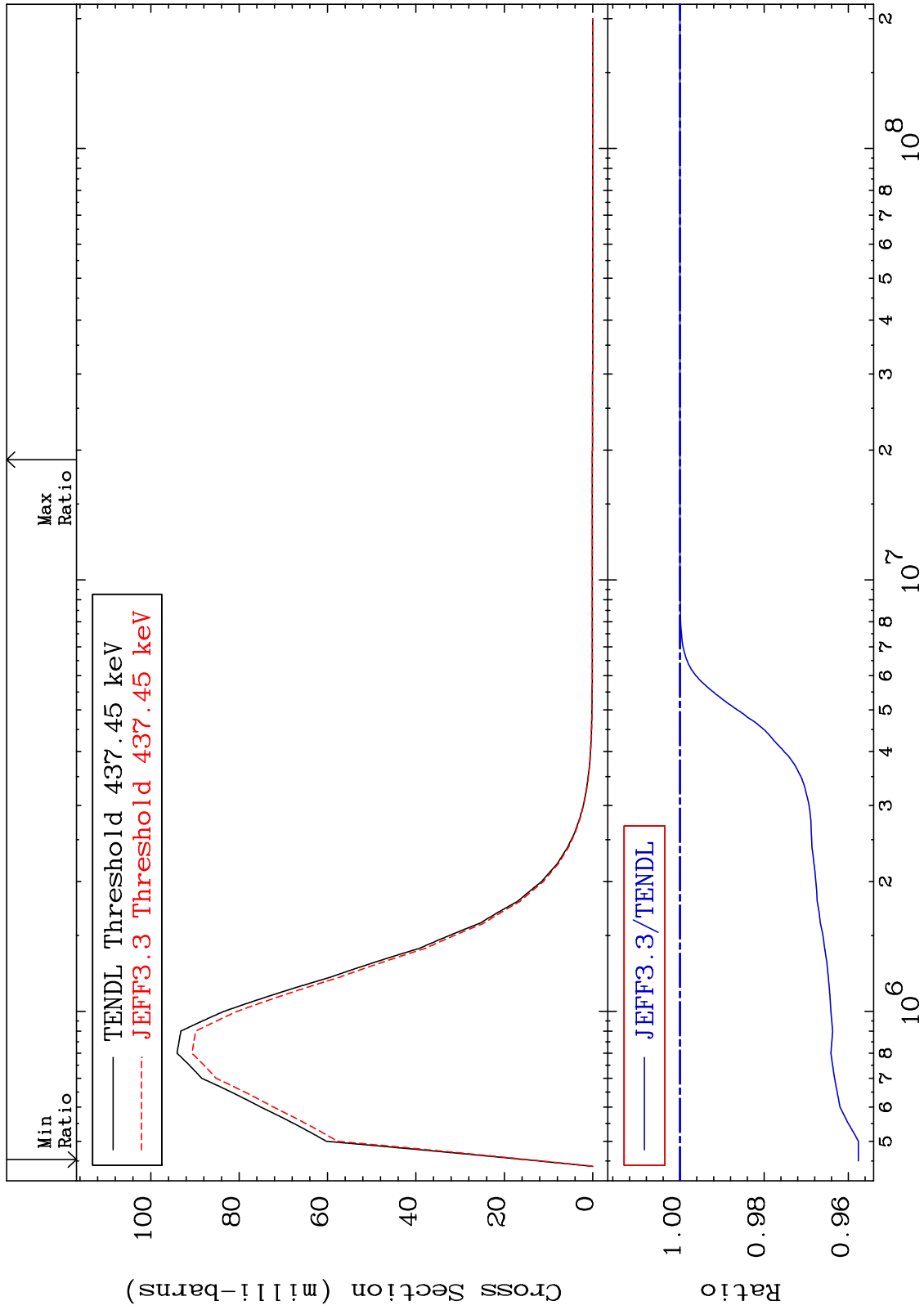


MAT 7119 MT= 61 (n,n') Level Cross Section 71-Lu-173 -5.370 To 0.000 %

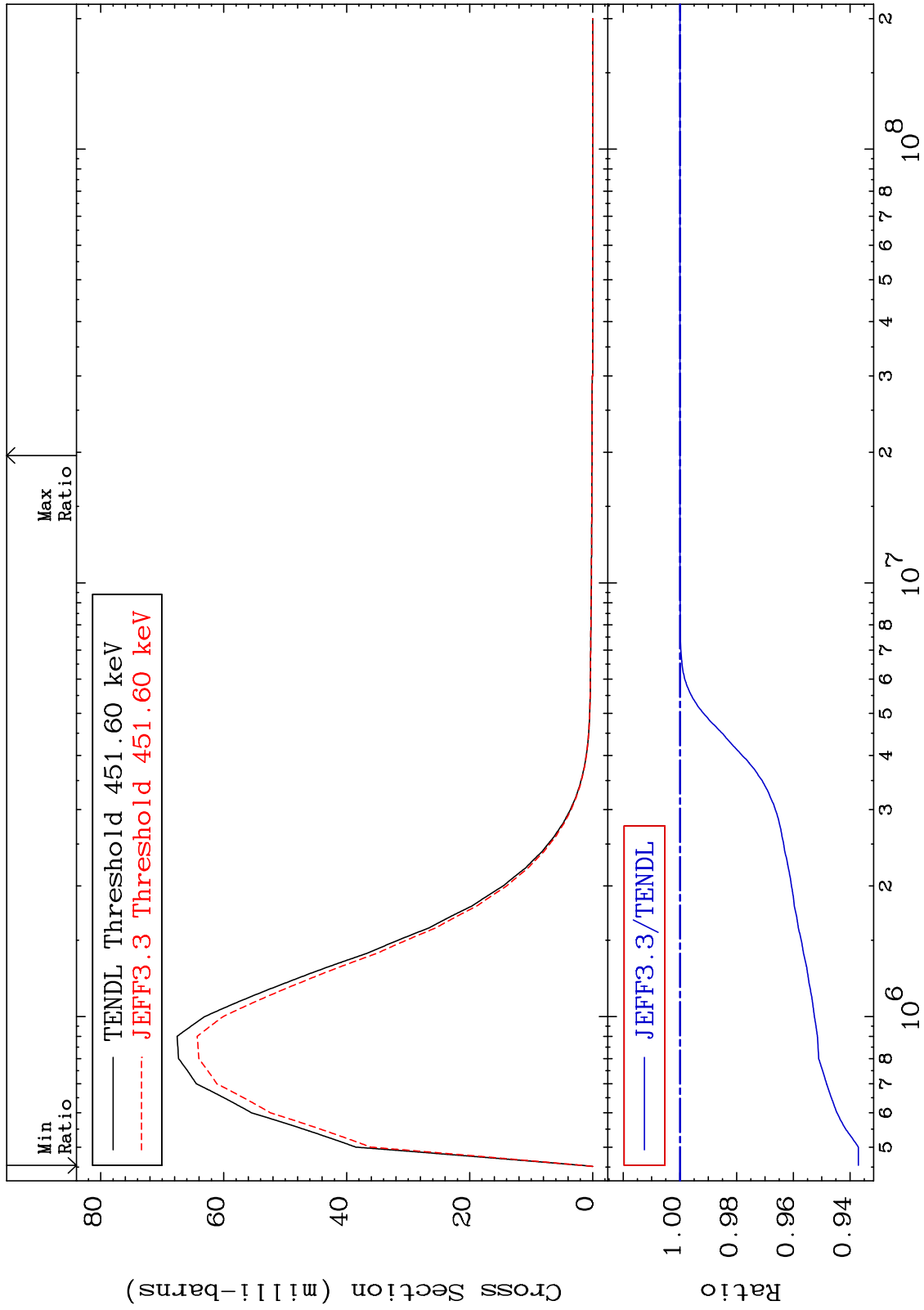


30 Incident Energy (eV) 71-Lu-173

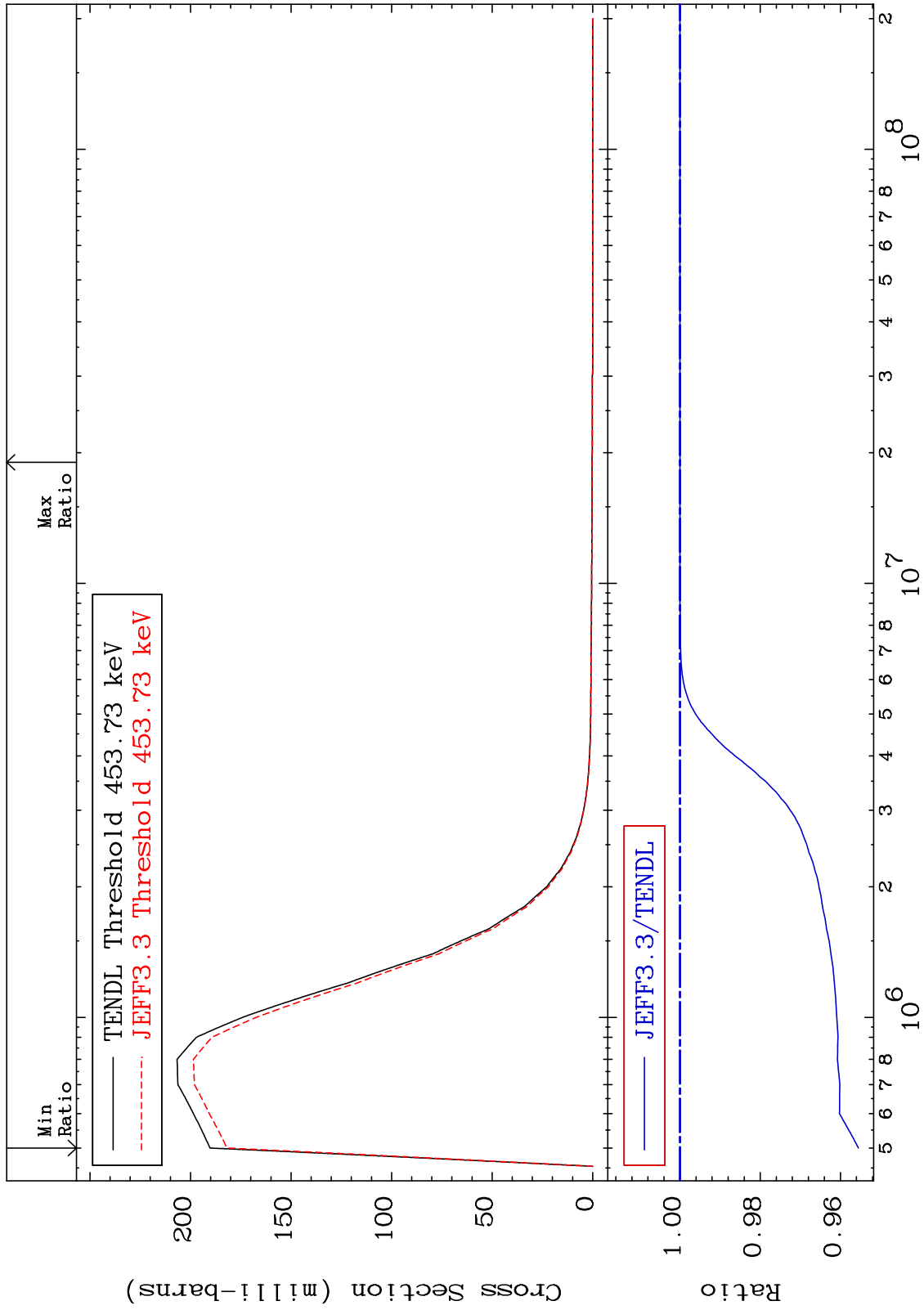
MAT 7119 MT= 62 (n,n') Level Cross Section 71-Lu-173 -4.240 To 0.000 %



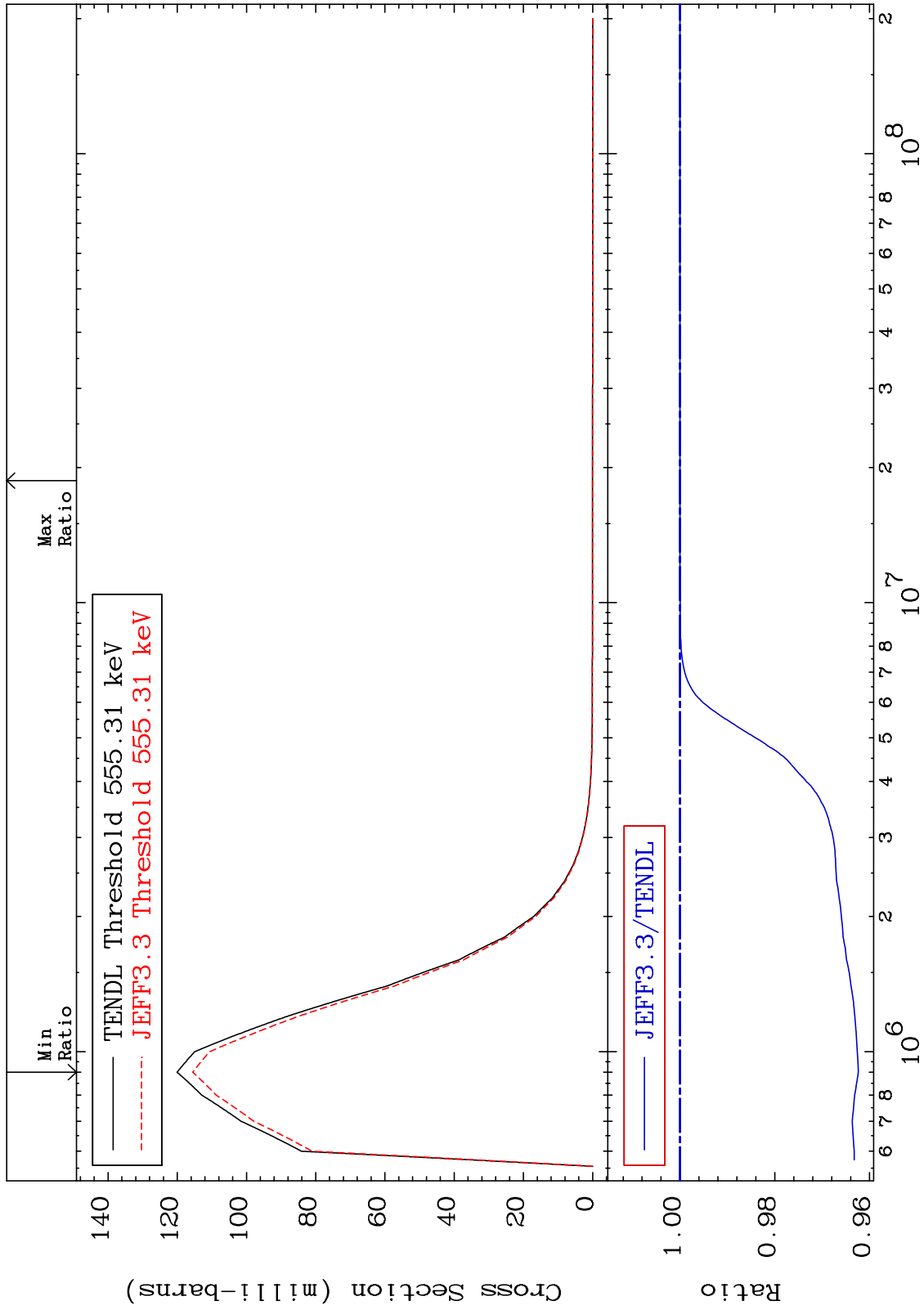
MAT 7119 MT= 63 (n,n') Level Cross Section 71-Lu-173 -6.291 To 0.000 %



MAT 7119 MT= 64 (n,n') Level 71-Lu-173
 Cross Section -4.448 To 0.000 %



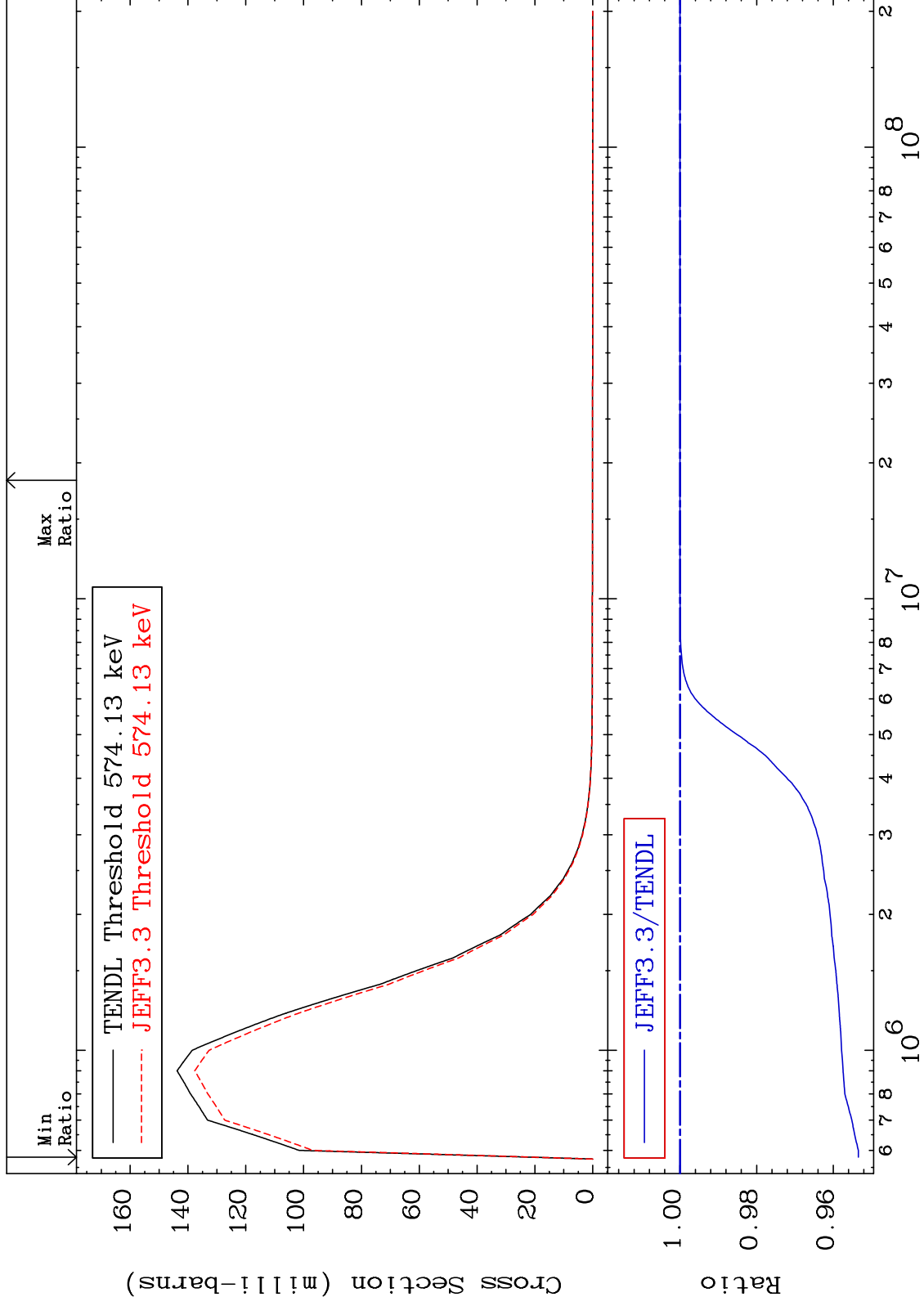
MAT 7119 MT= 65 (n,n') Level Cross Section -3.764 To 0.000 % 71-Lu-173



MAT 7119

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

71-Lu-173
-4.657 To 0.000 %

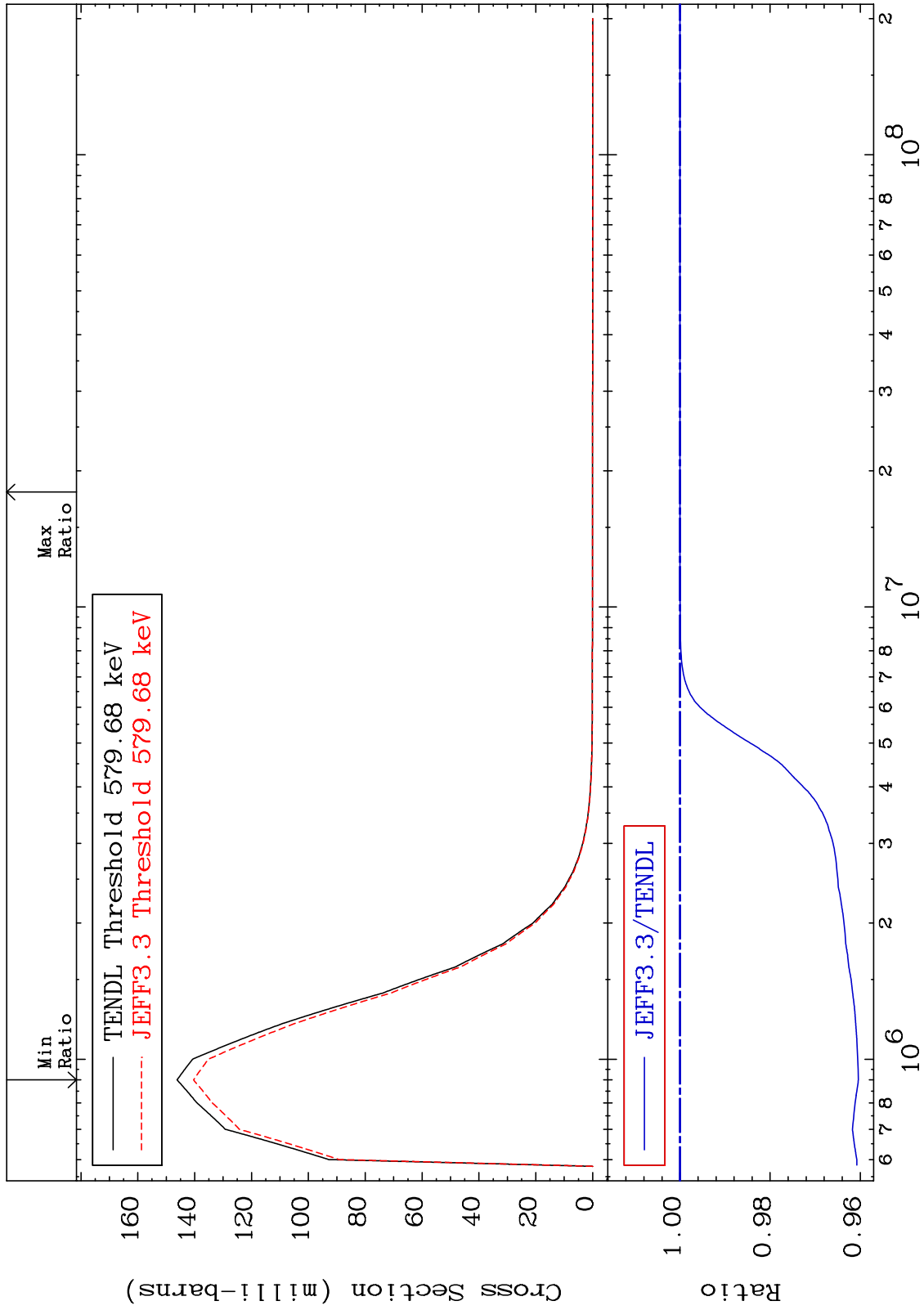


35

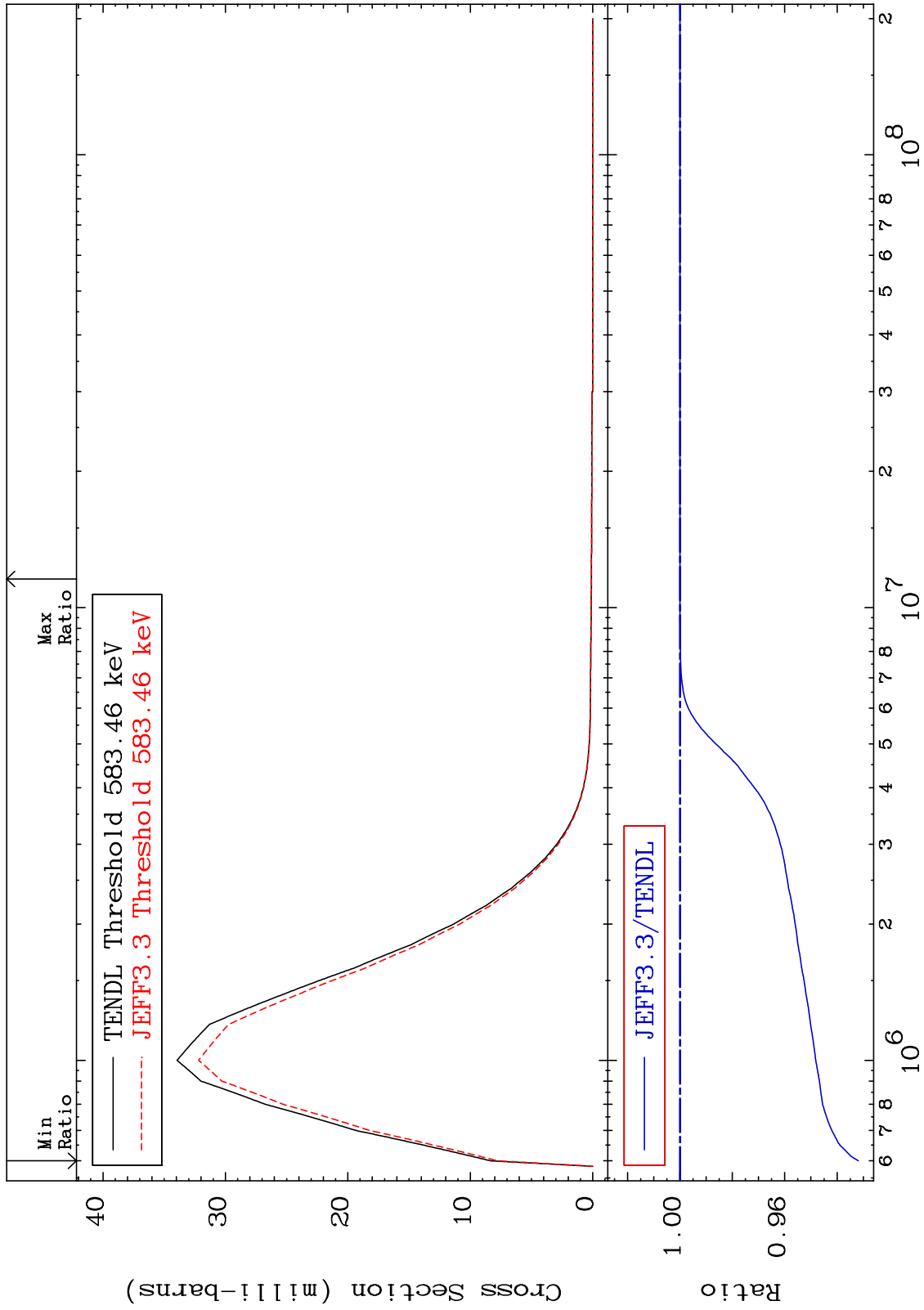
Incident Energy (eV)

71-Lu-173

MAT 7119 MT= 67 (n,n') Level Cross Section 71-Lu-173
 -3.960 To 0.000 %

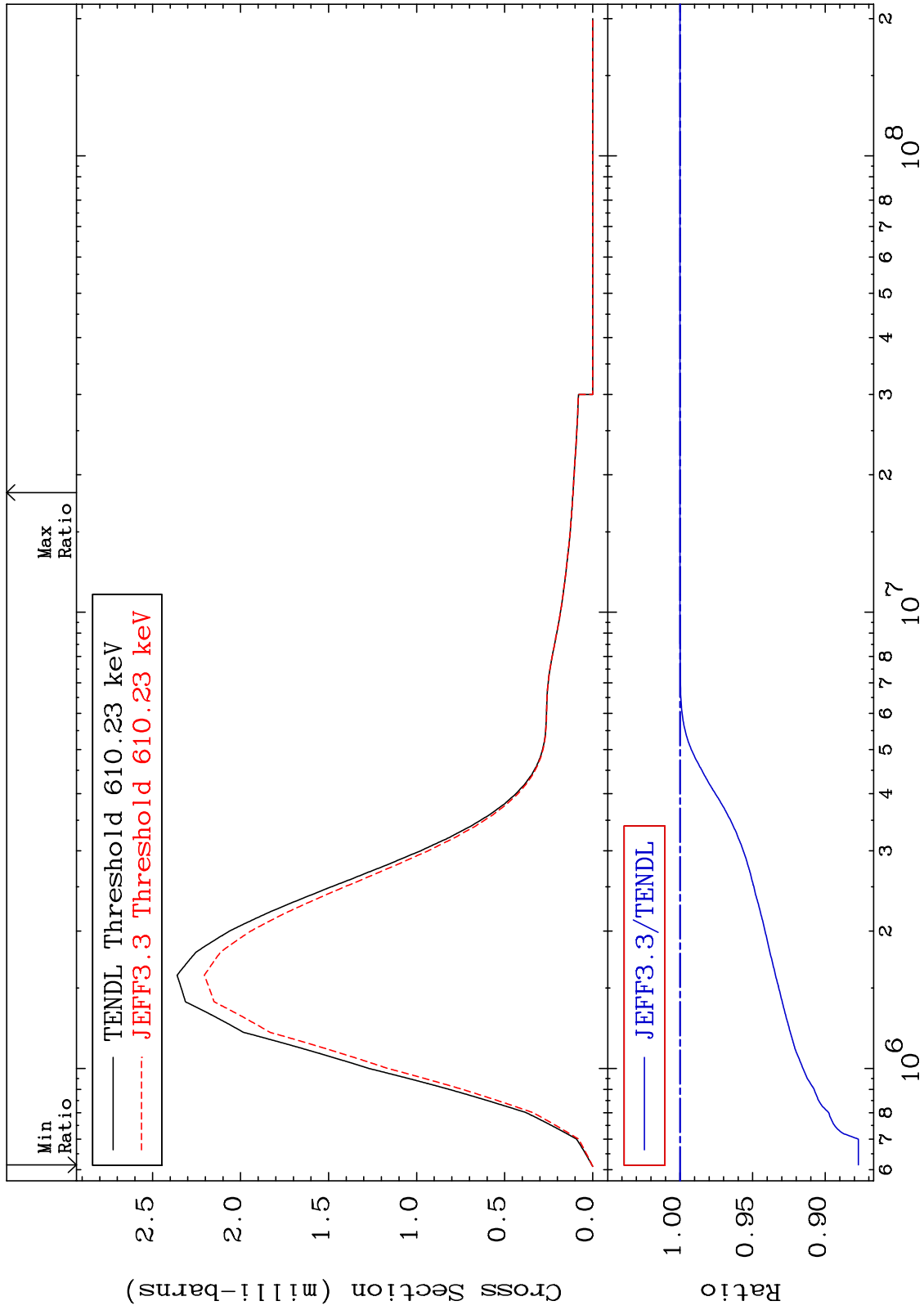


MAT 7119 MT= 68 (n,n') Level Cross Section -6.814 To 0.000 % 71-Lu-173

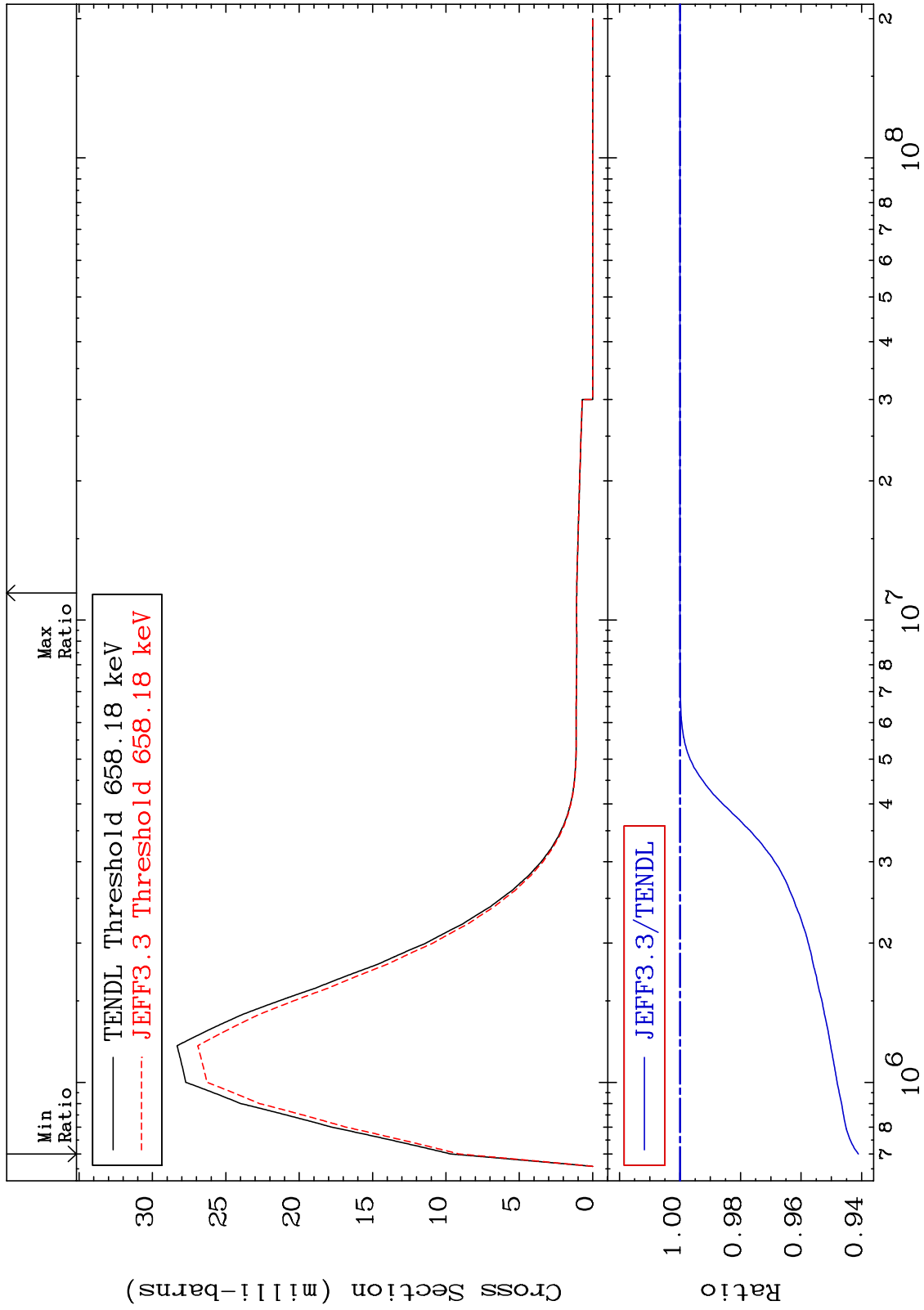


37 71-Lu-173

MAT 7119 MT= 69 (n,n') Level 71-Lu-173
 Cross Section -12.28 To 0.000 %

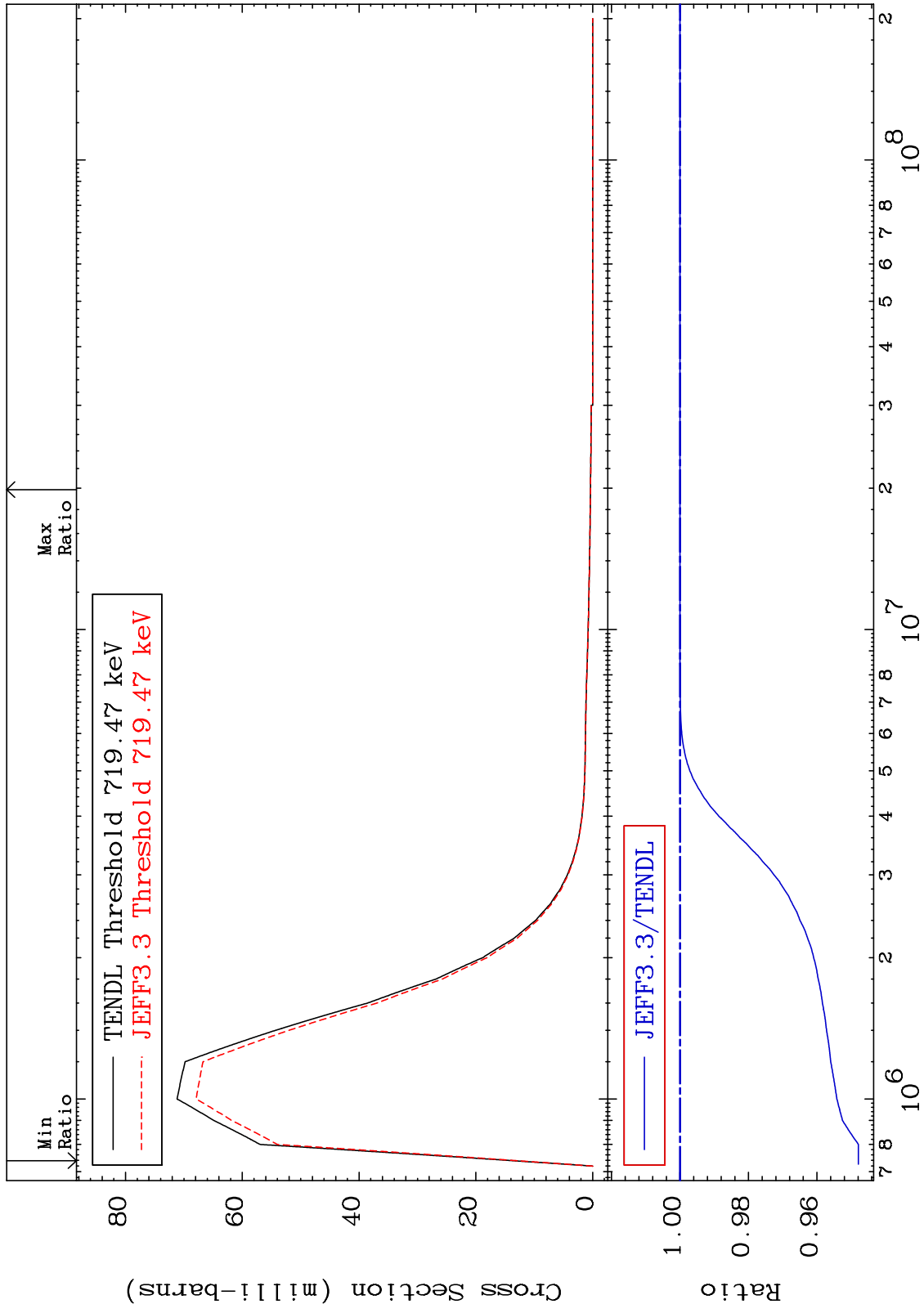


MAT 7119 MT= 71 (n,n') Level Cross Section 71-Lu-173
-5.893 To 0.000 %



40 Incident Energy (eV) 71-Lu-173

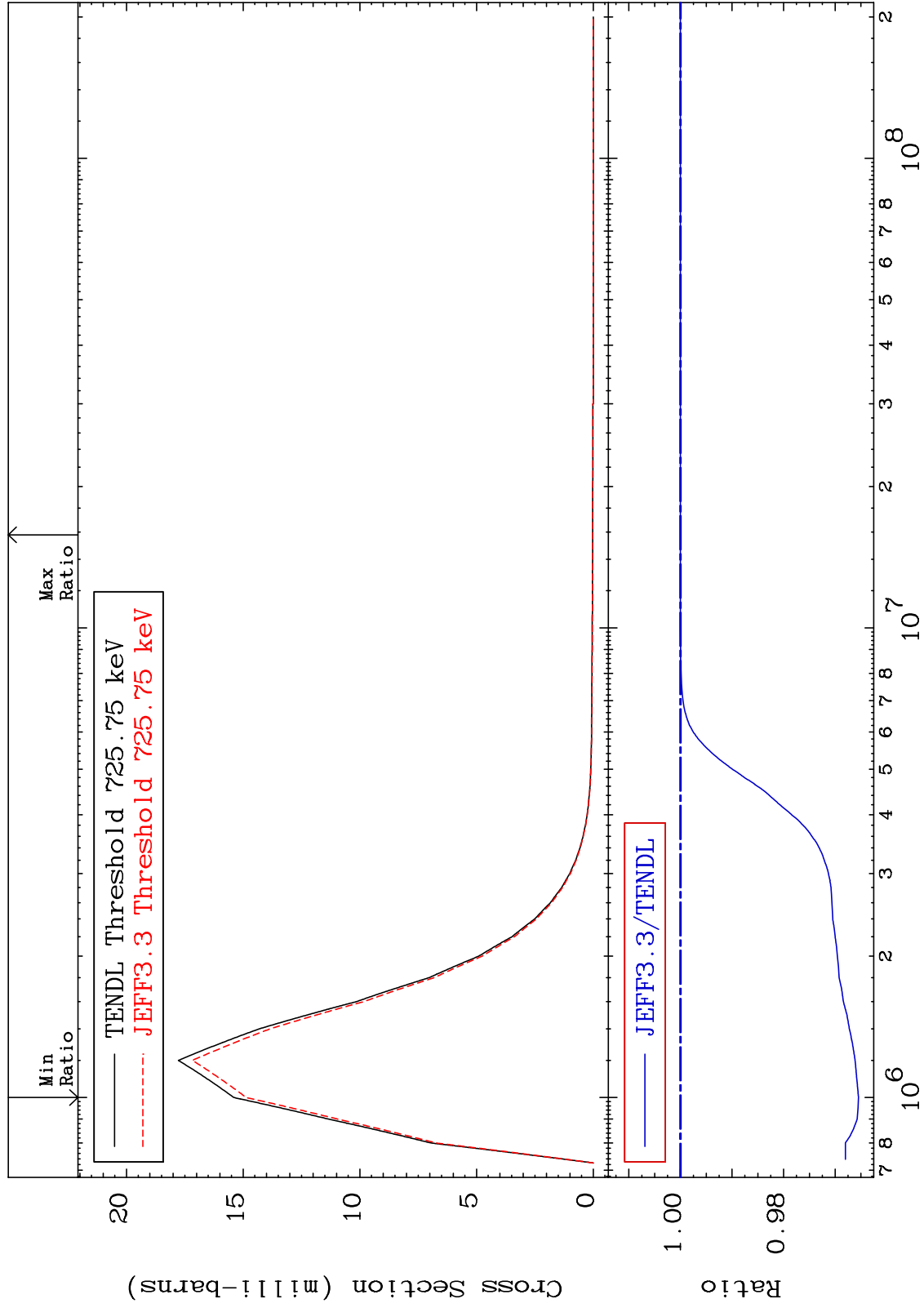
MAT 7119 MT= 72 (n,n') Level Cross Section 71-Lu-173 -5.210 To 0.000 %



MAT 7119

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

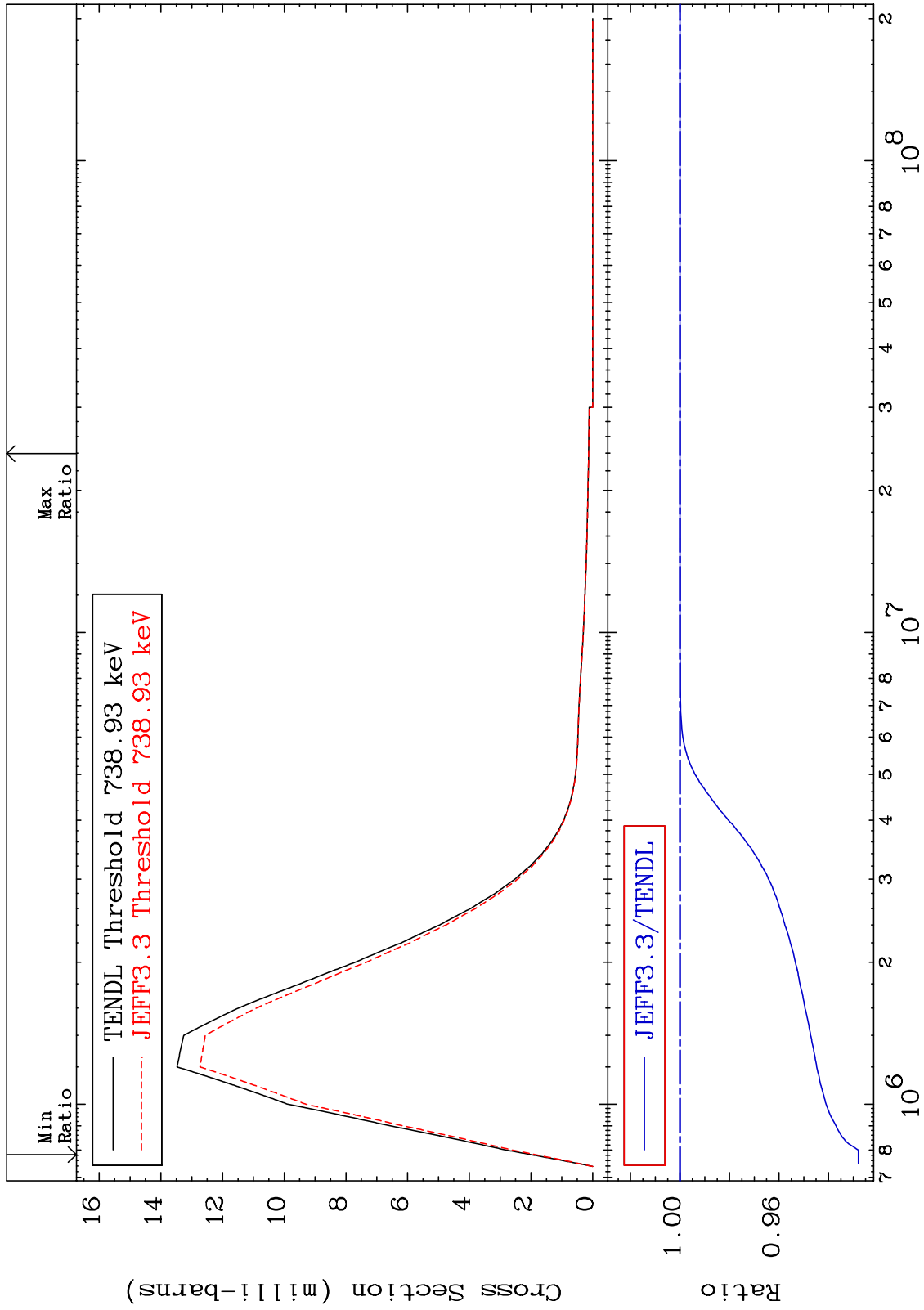
71-Lu-173
-3.452 To 0.000 %



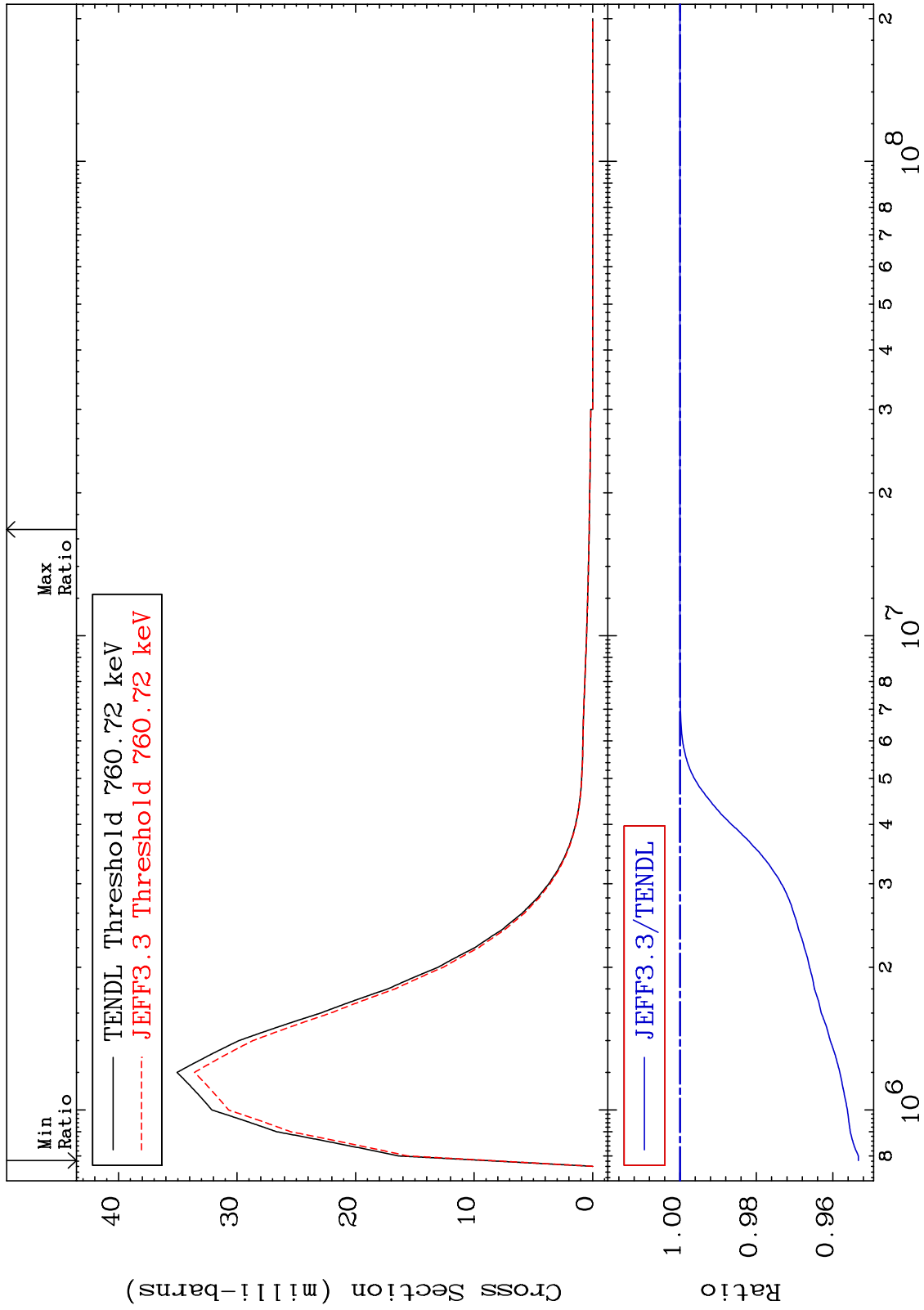
42

71-Lu-173

MAT 7119 MT= 74 (n,n') Level Cross Section 71-Lu-173 -7.207 To 0.000 %



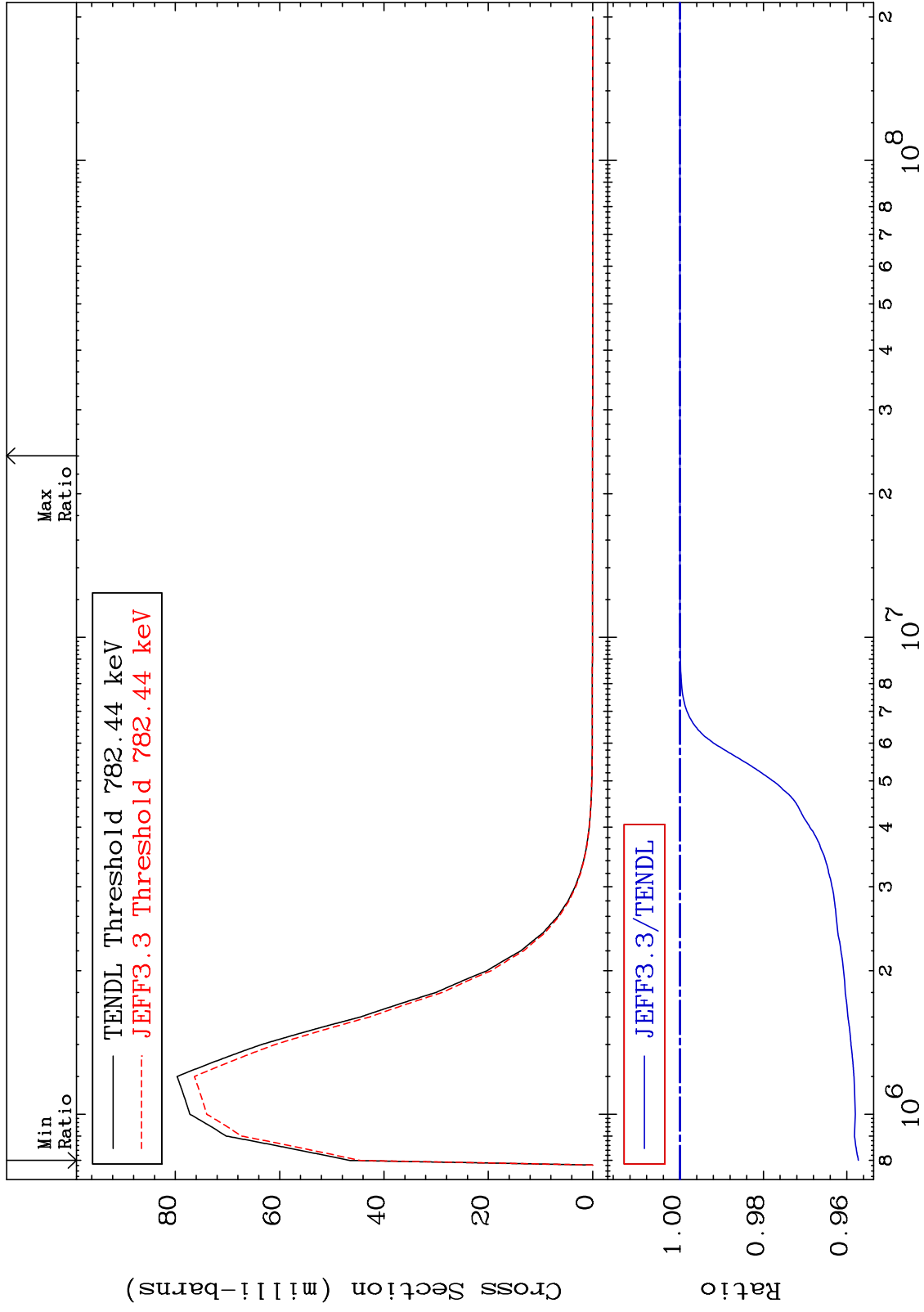
MAT 7119 MT= 75 (n, n') Level Cross Section -4.672 To 0.000 % 71-Lu-173



MAT 7119

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

71-Lu-173
-4.276 To 0.000 %



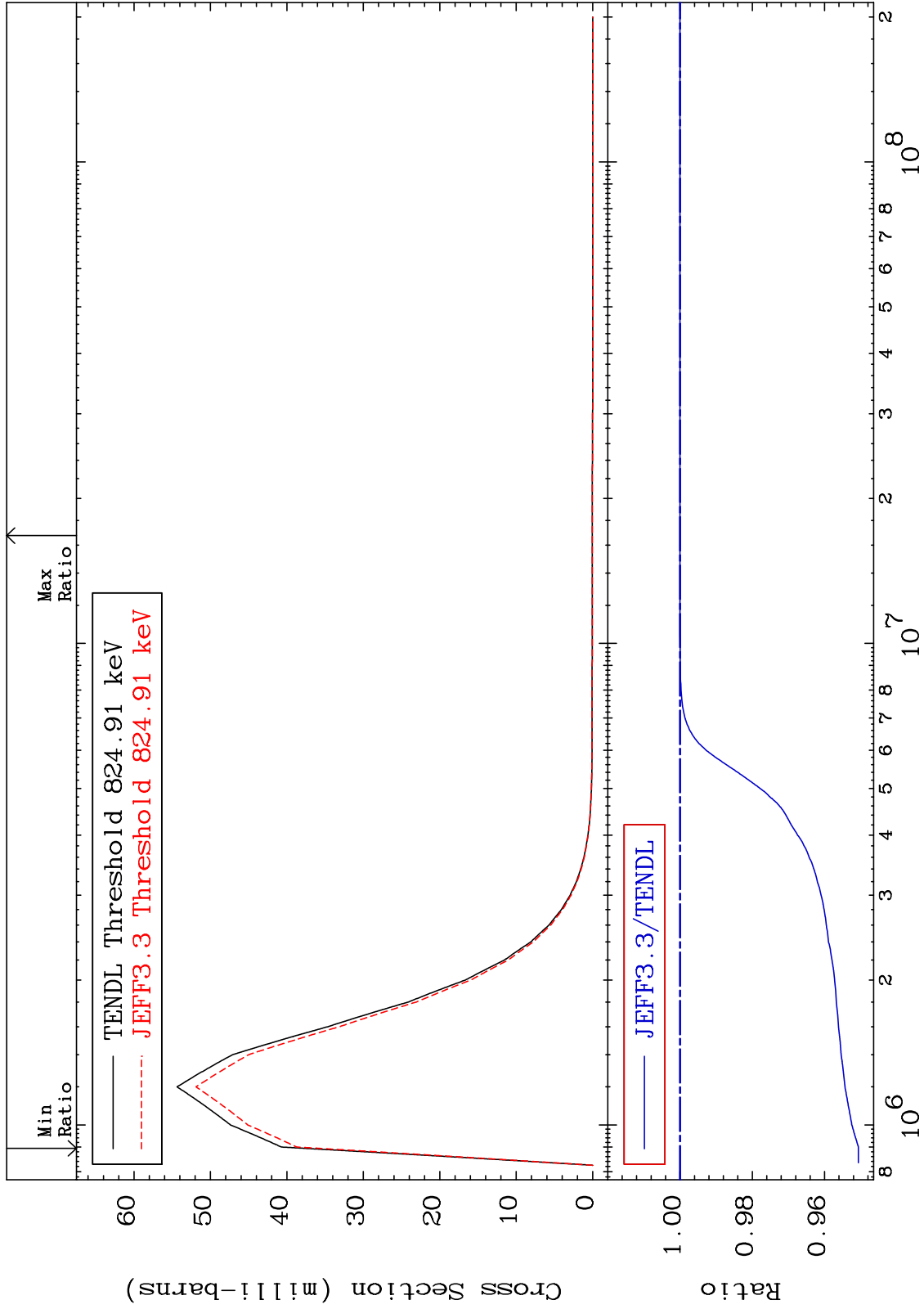
45

71-Lu-173

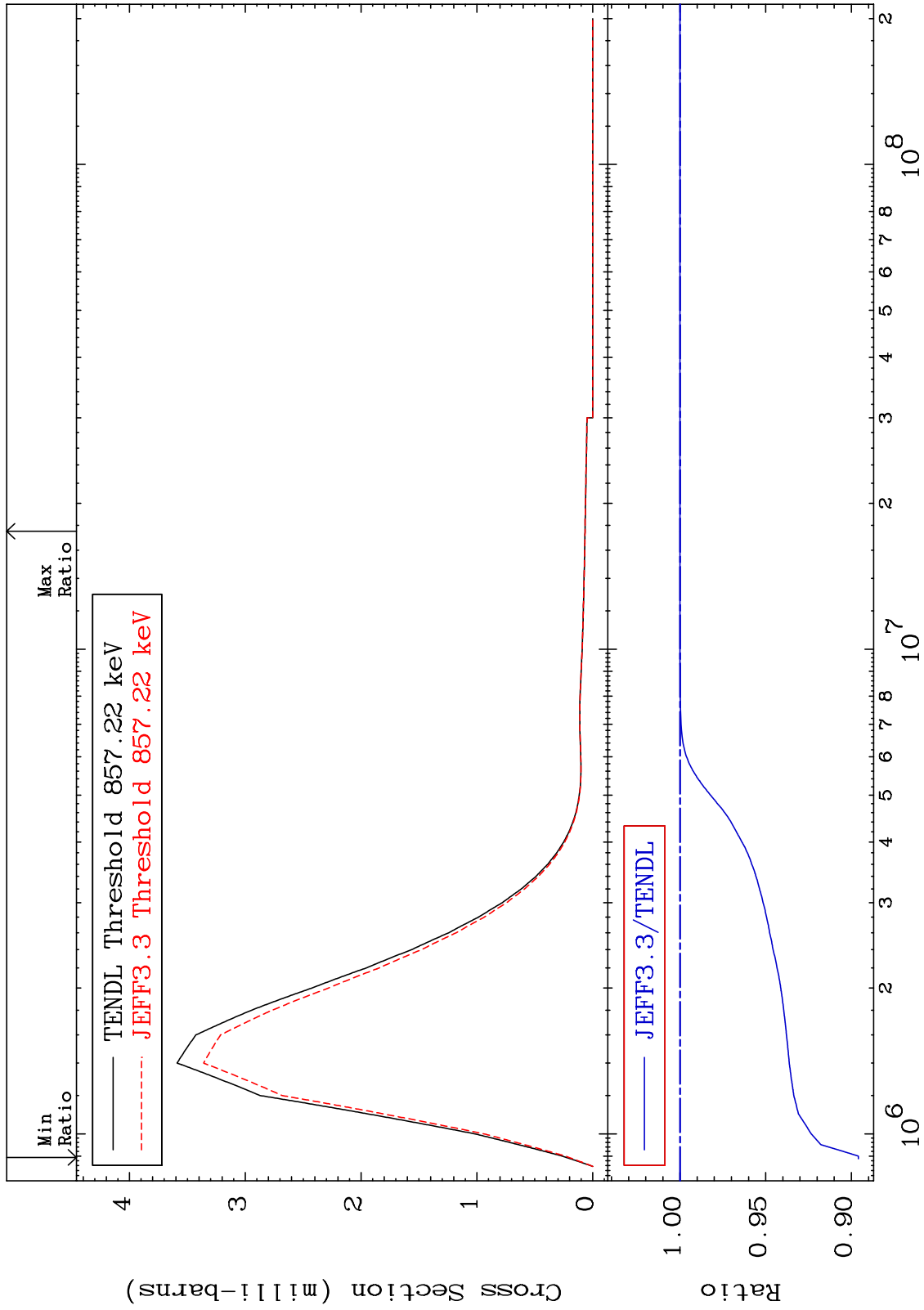
MAT 7119

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

71-Lu-173
-4.936 To 0.000 %



MAT 7119 MT= 78 (n, n') Level Cross Section -10.41 To 0.000 % 71-Lu-173

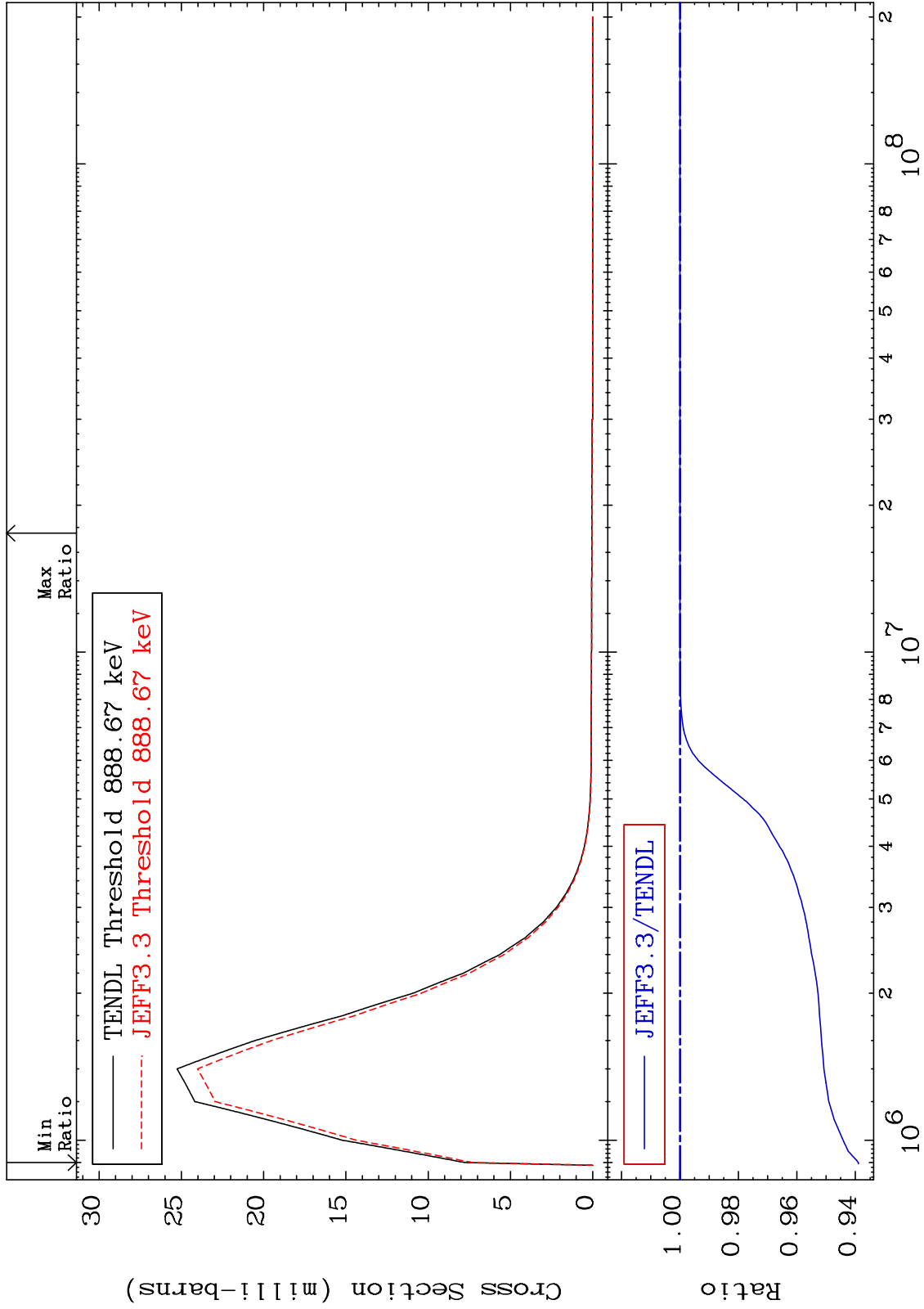


47 71-Lu-173

MAT 7119

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

71-Lu-173
-6.102 To 0.000 %



48

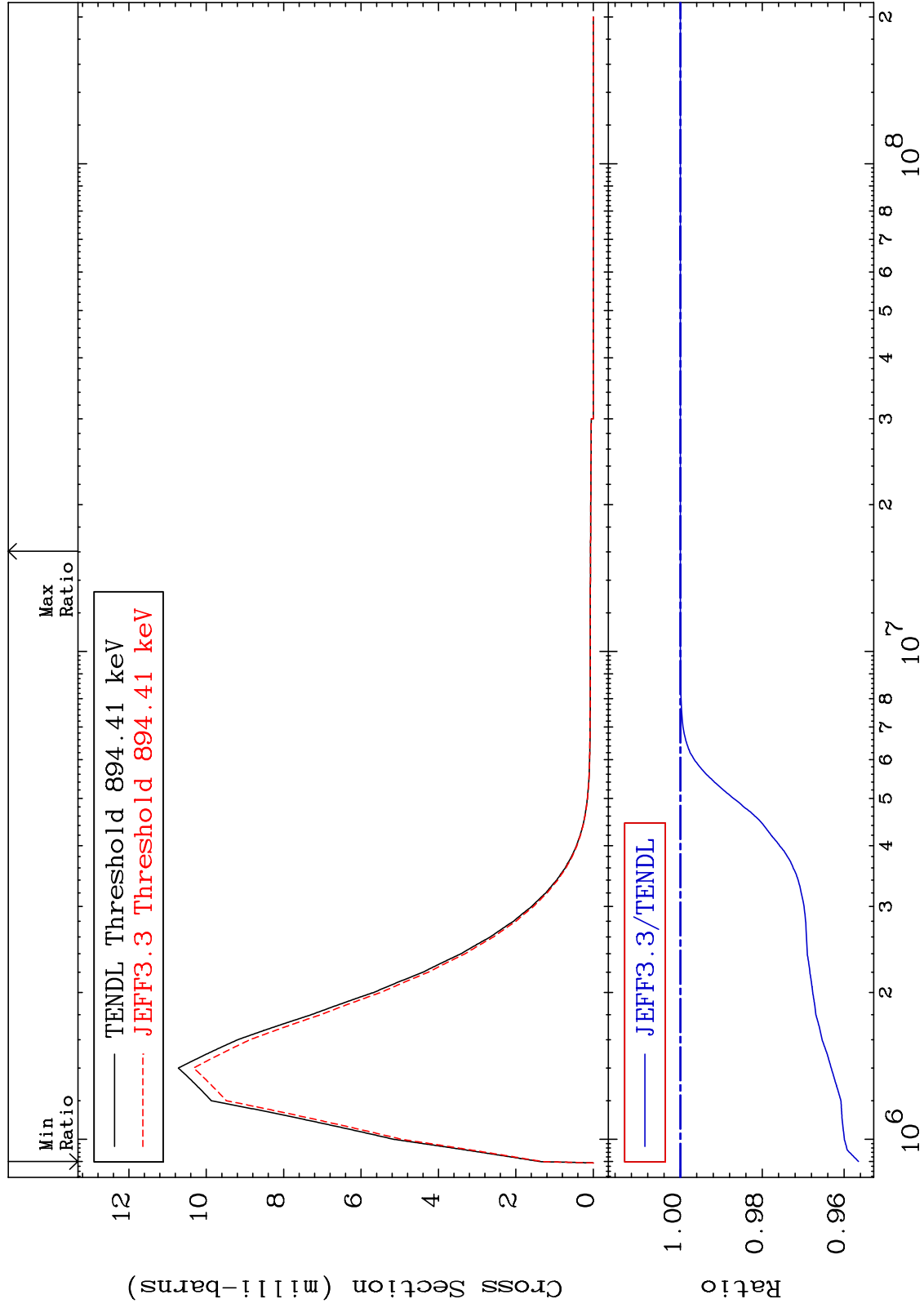
Incident Energy (eV)

71-Lu-173

MAT 7119

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

71-Lu-173
-4.352 To 0.000 %



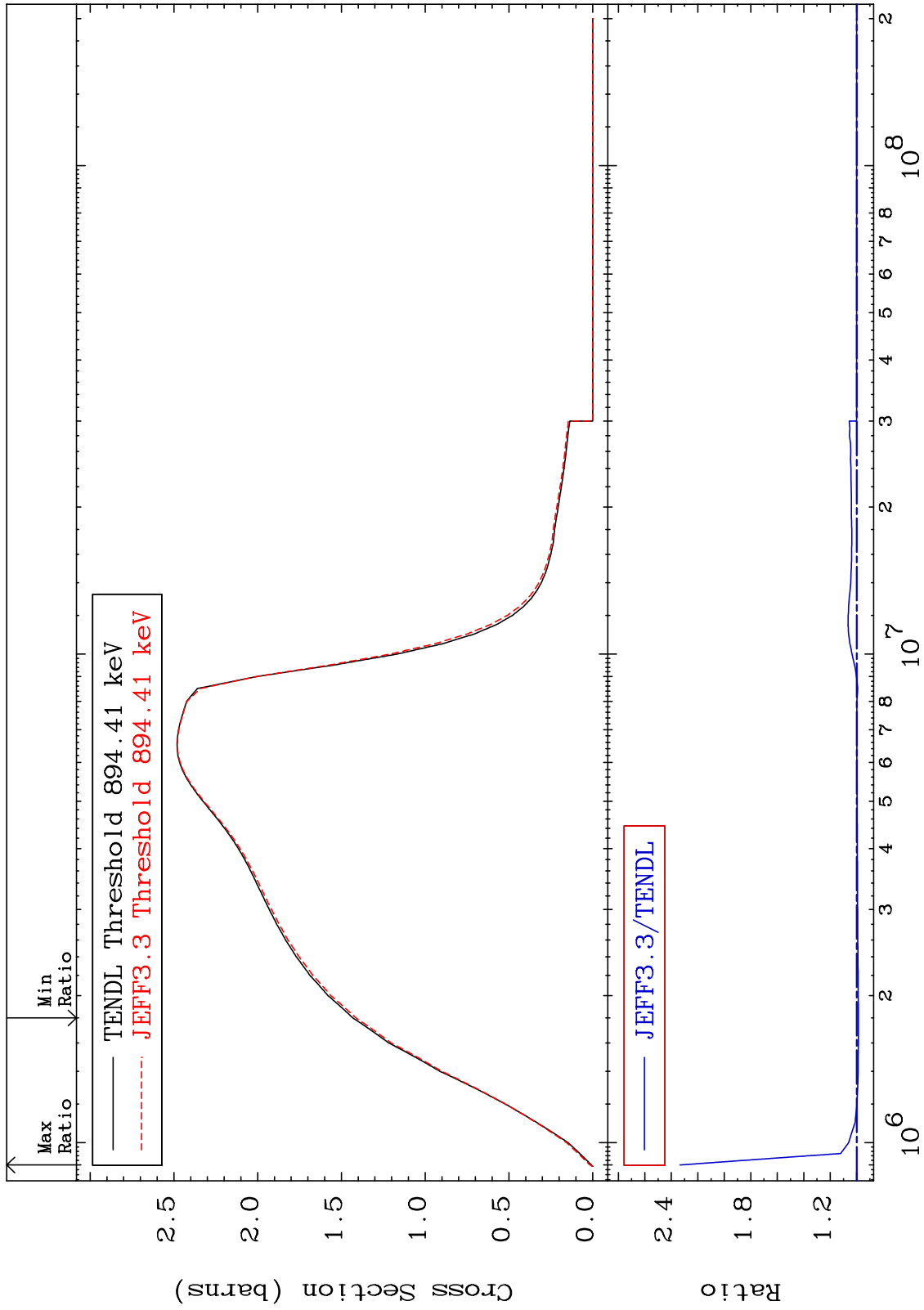
49

71-Lu-173

MAT 7119

(n, n') Continuum
Cross Section

⁷¹Lu-173
-1.279 To 133.4 %



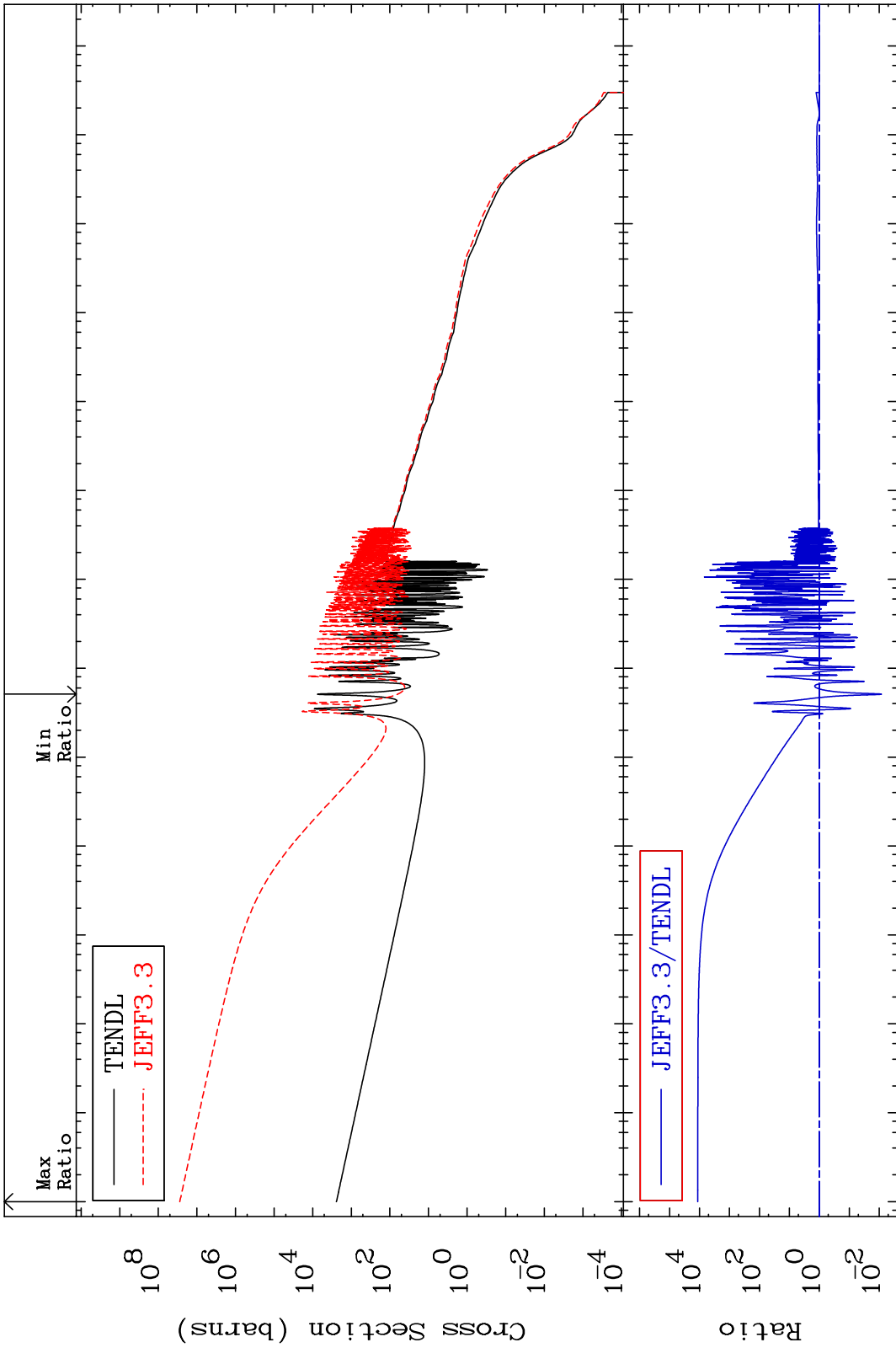
⁷¹Lu-173

Incident Energy (eV)

50

MAT 7119 71-Lu-173
-99.16 To 9999. %

(n, γ)
 Cross Section



Incident Energy (eV) 71-Lu-173

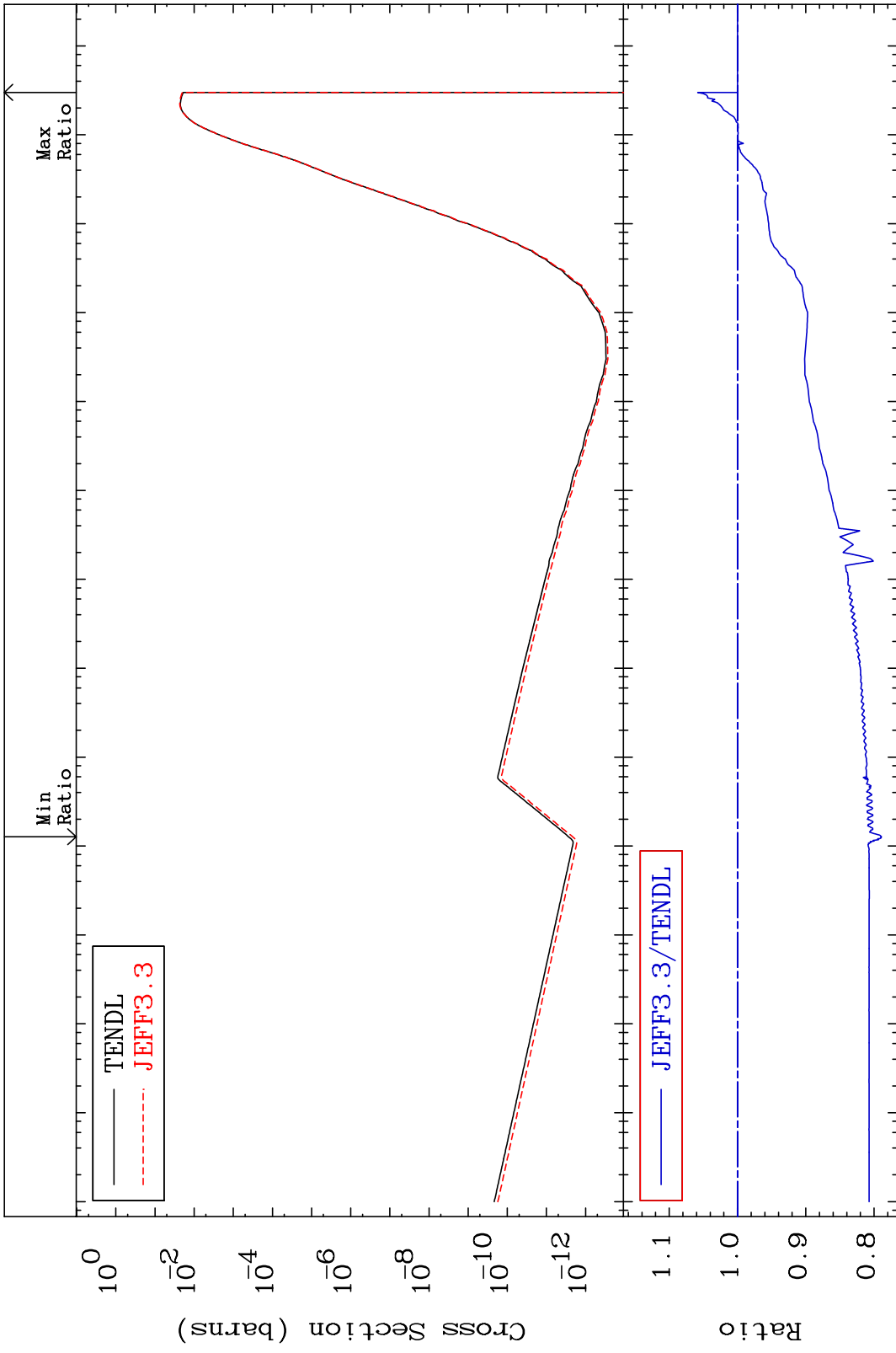
MAT 7119

(n,p)

71-Lu-173

Cross Section

-21.08 To 5.820 %



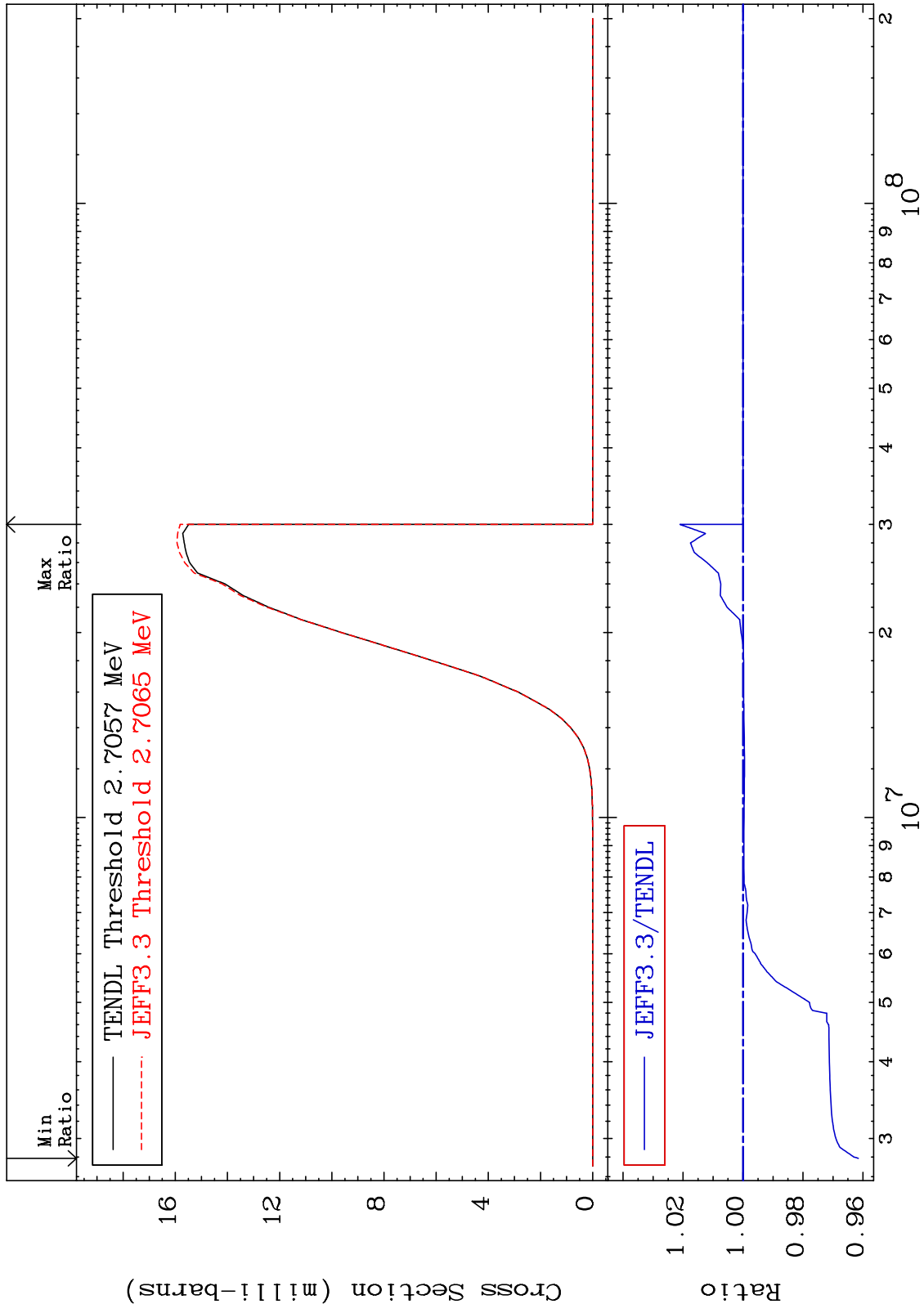
MAT 7119

(n, d)

71-Lu-173

Cross Section

-3.847 To 2.101 %



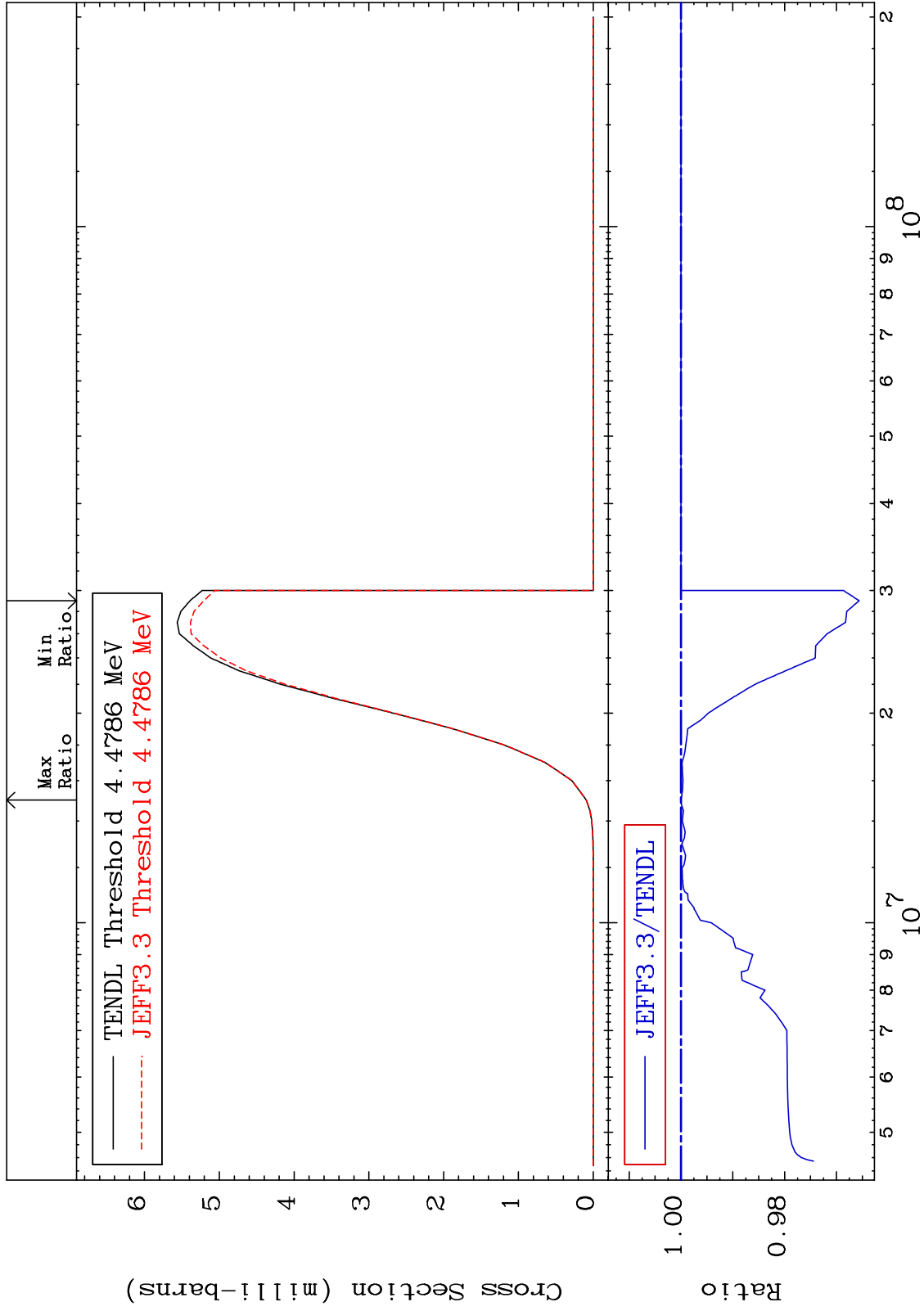
MAT 7119

(n, t)

71-Lu-173

Cross Section

-3.439 To 0.007 %



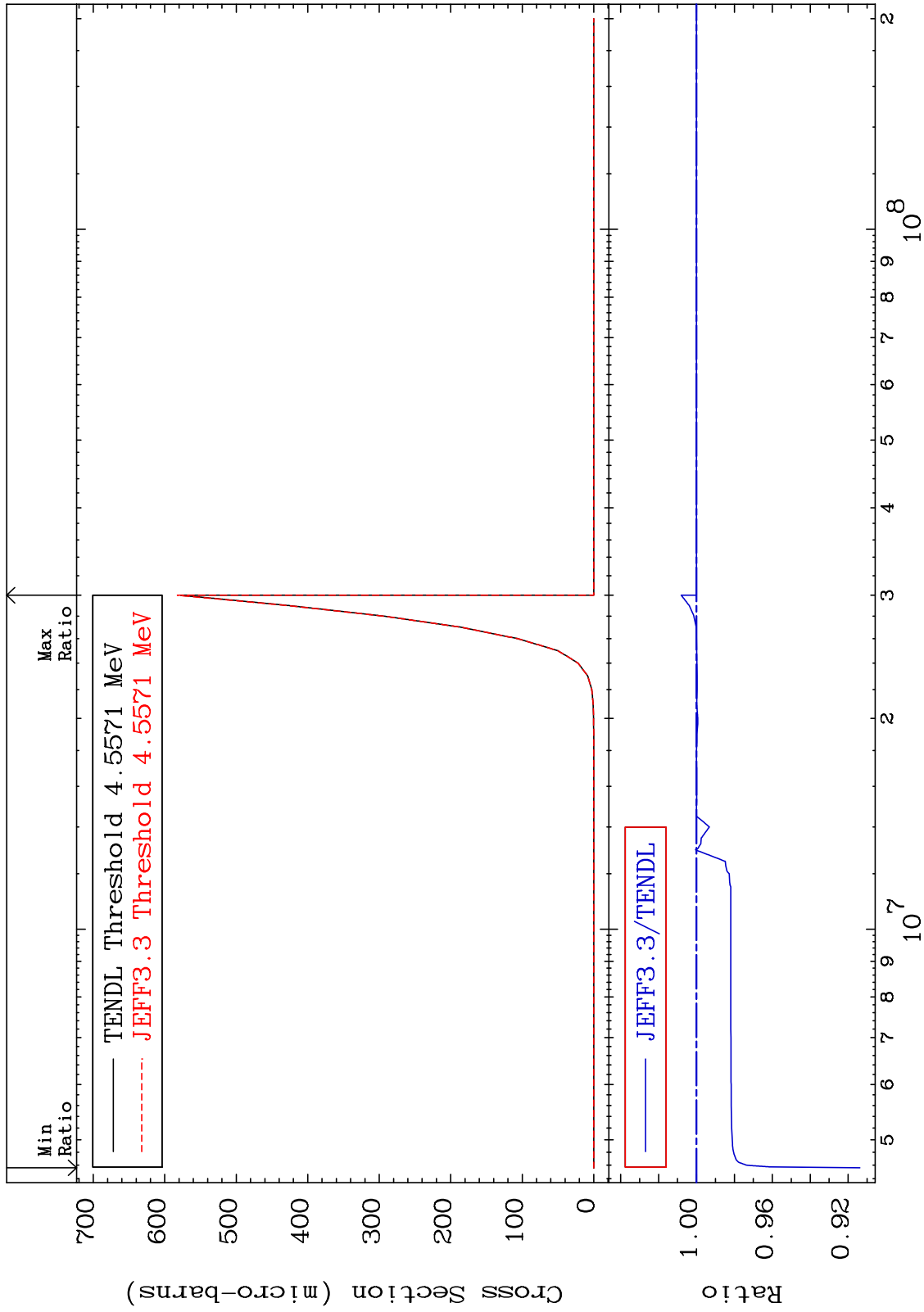
MAT 7119

(n, He-3)

71-Lu-173

Cross Section

-8.623 To 0.805 %



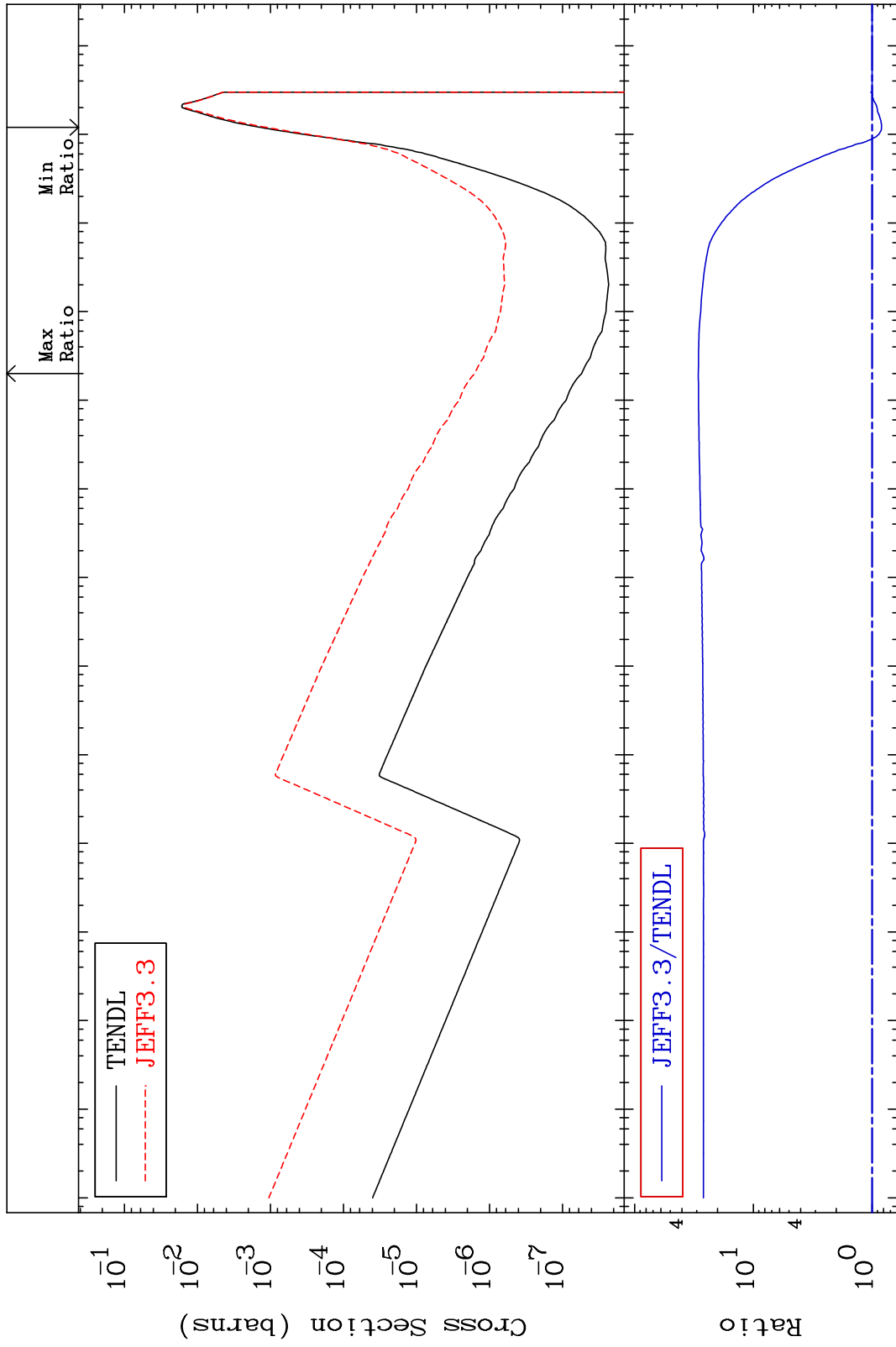
MAT 7119

(n, α)

71-Lu-173

Cross Section

-16.88 To 2803. %



Incident Energy (eV)

56

71-Lu-173

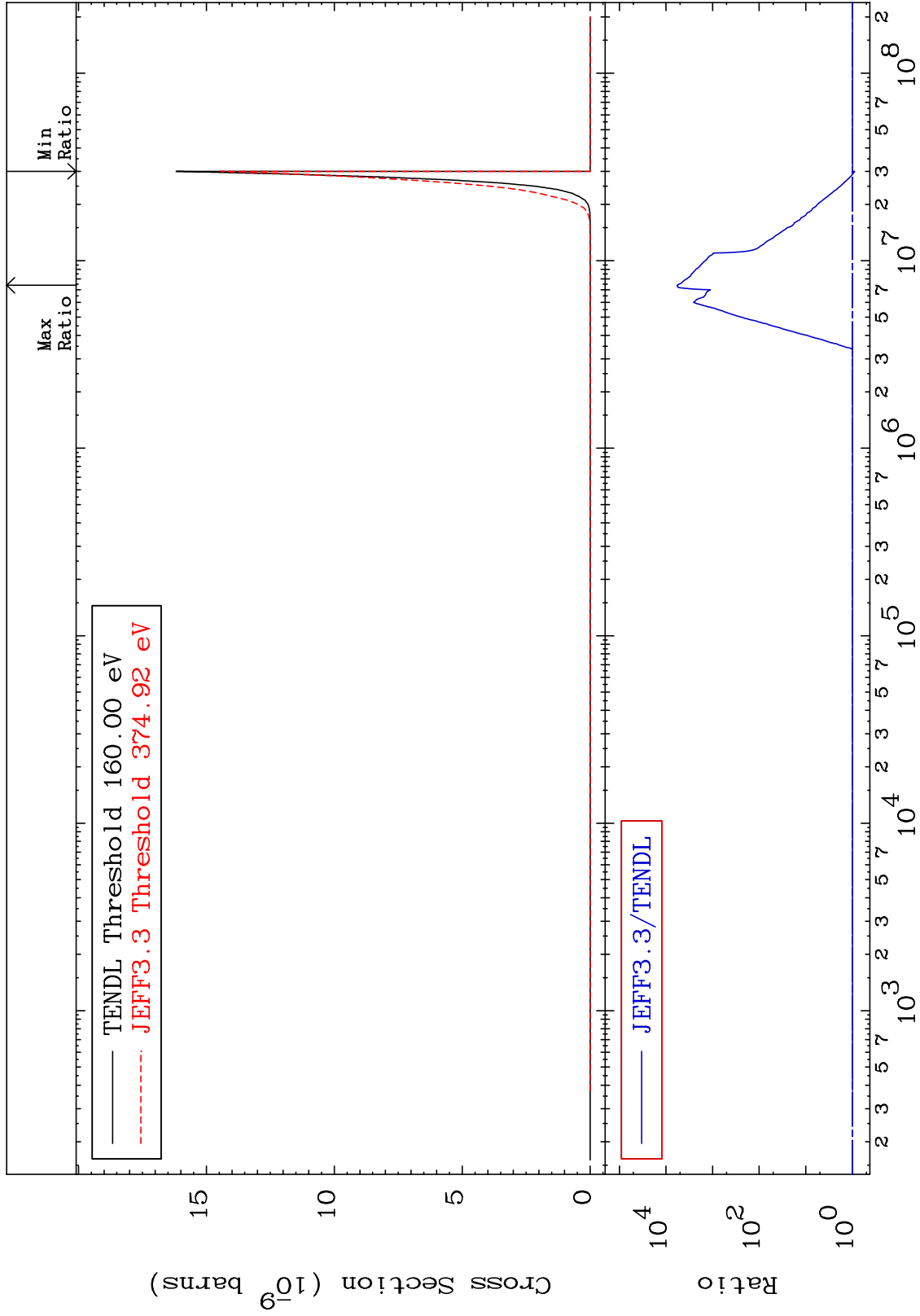
MAT 7119

(n, 2α)

71-Lu-173

Cross Section

-10.79 To 9999. %



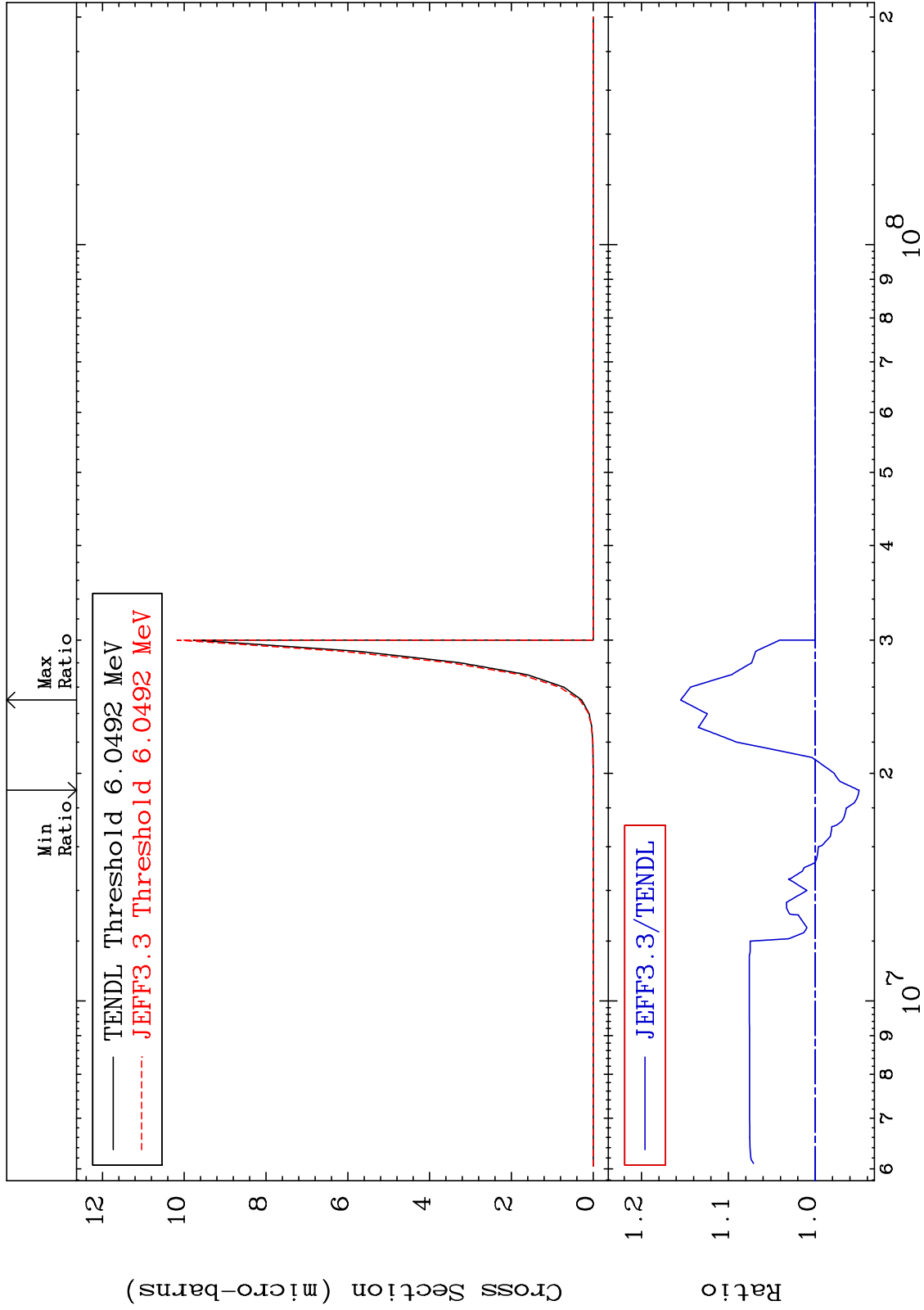
MAT 7119

(n,2p)

71-Lu-173

Cross Section

-5.059 To 15.50 %



58

71-Lu-173

71-Lu-173

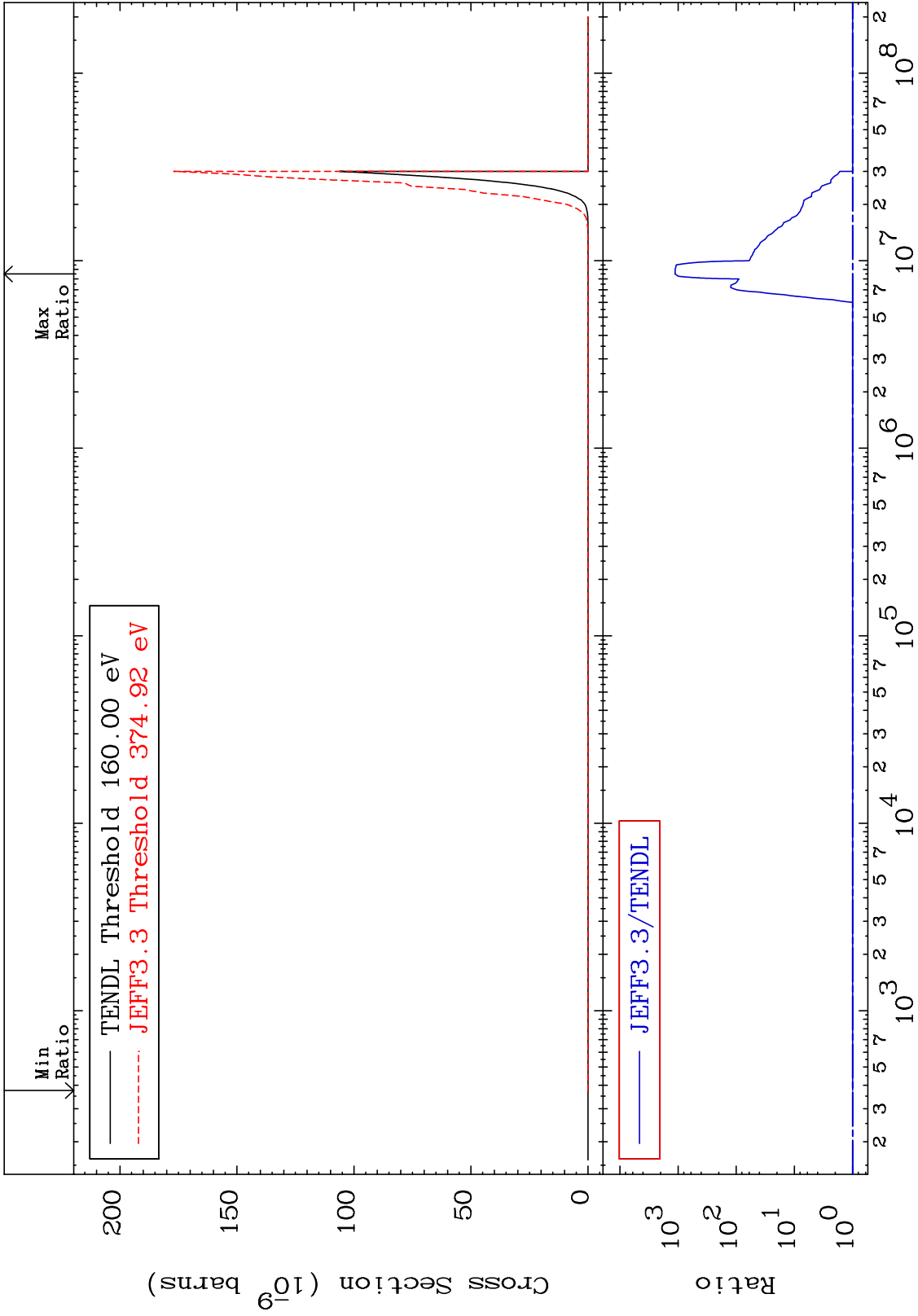
MAT 7119

(n,p) α

71-Lu-173

Cross Section

0.000 To 9999. %



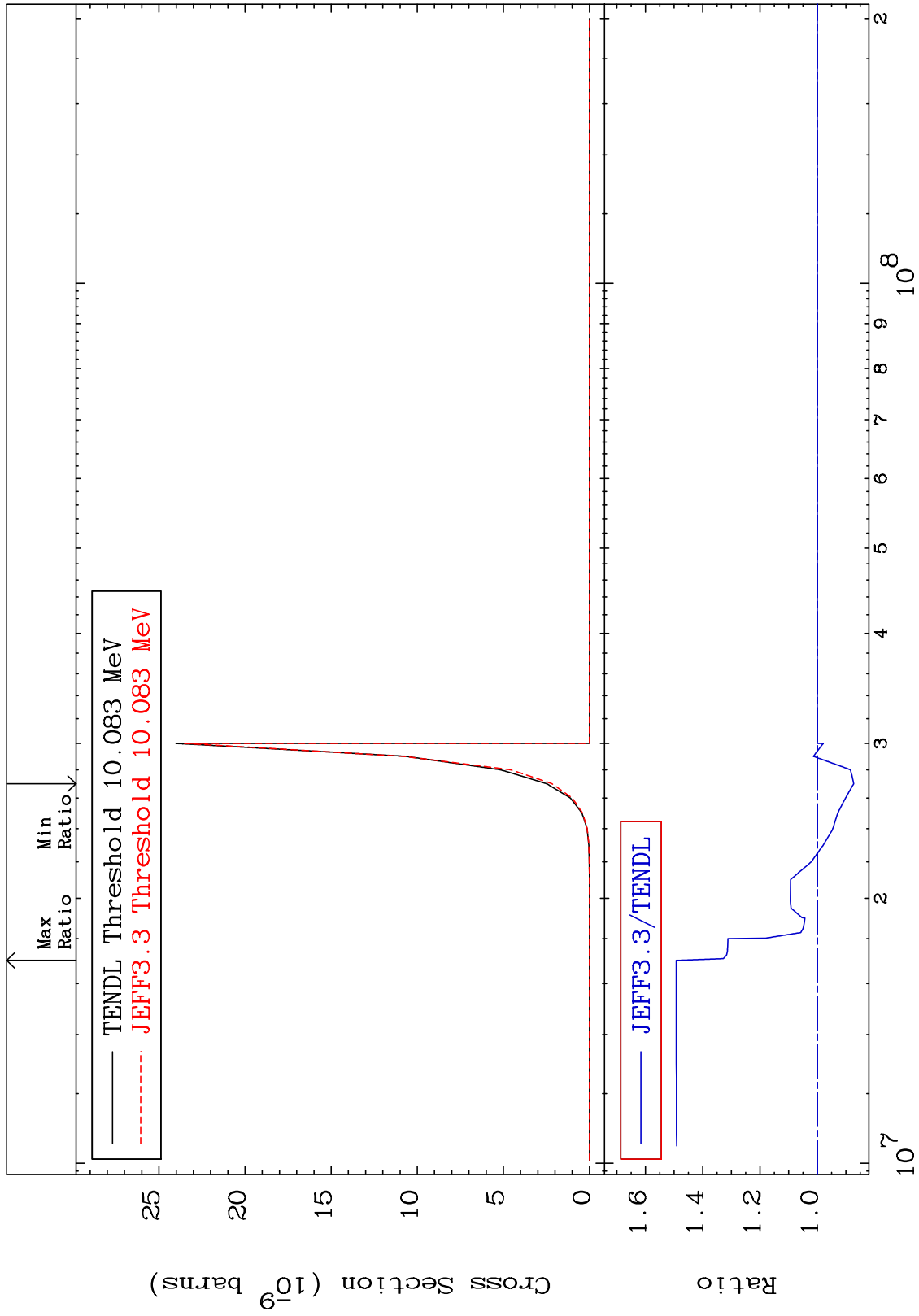
MAT 7119

(n,p) d

71-Lu-173

Cross Section

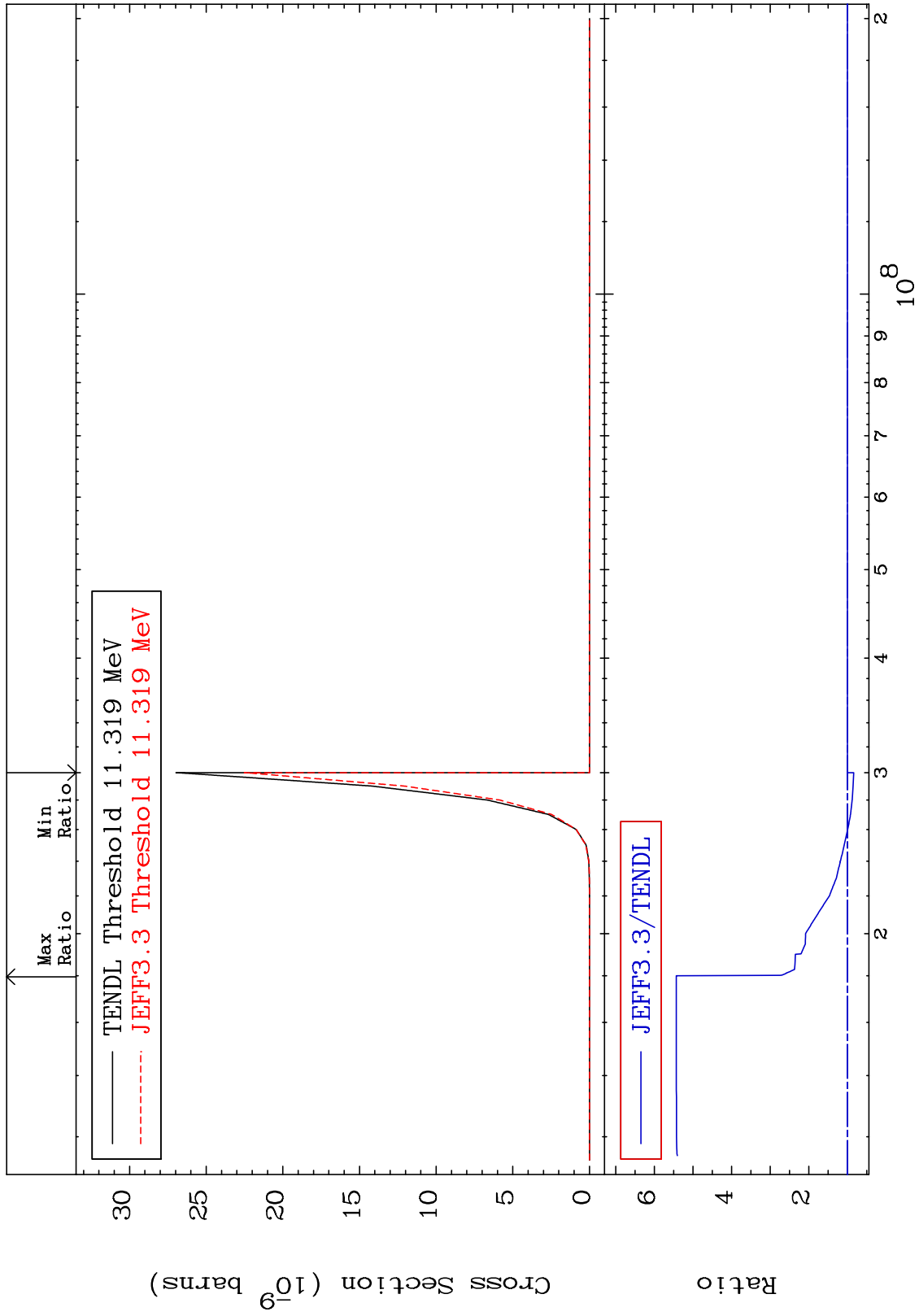
-12.72 To 49.20 %



Incident Energy (eV)

71-Lu-173

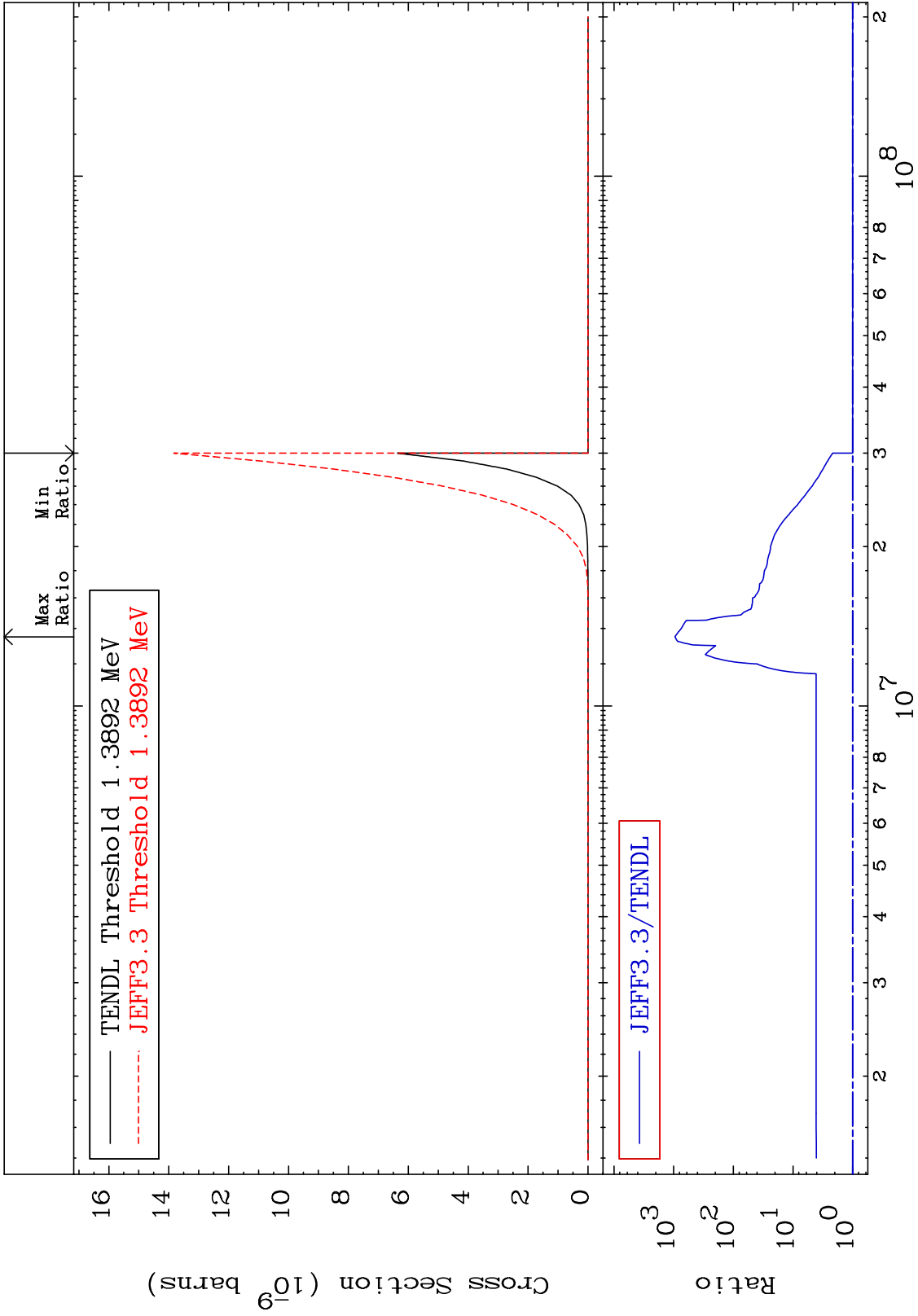
MAT 7119 (n,p) t 71-Lu-173
 Cross Section -16.51 To 443.3 %



MAT 7119

(n,d) α
Cross Section

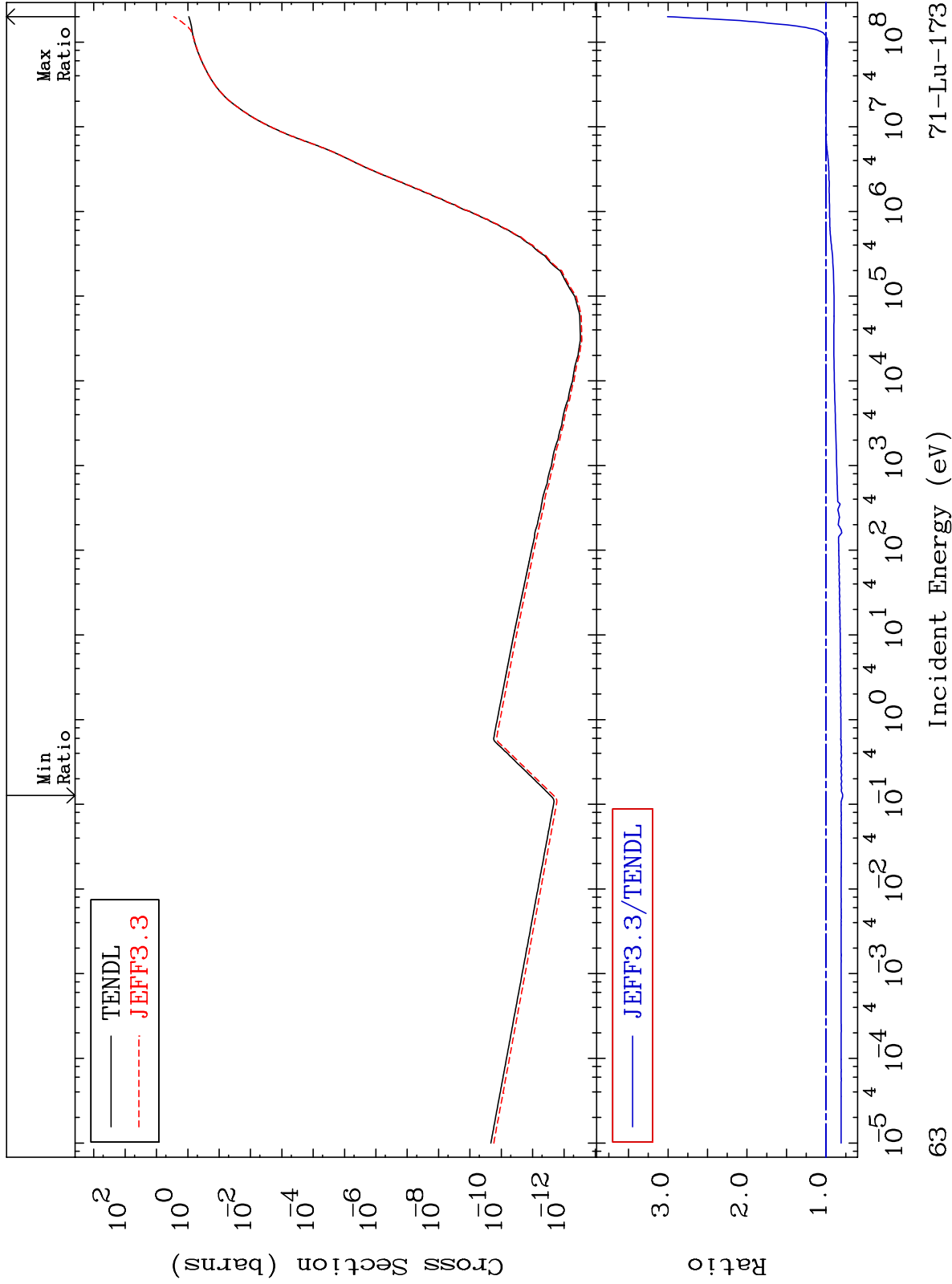
71-Lu-173
To 9999. %
0.000



MAT 7119

Hydrogen Production
Cross Section

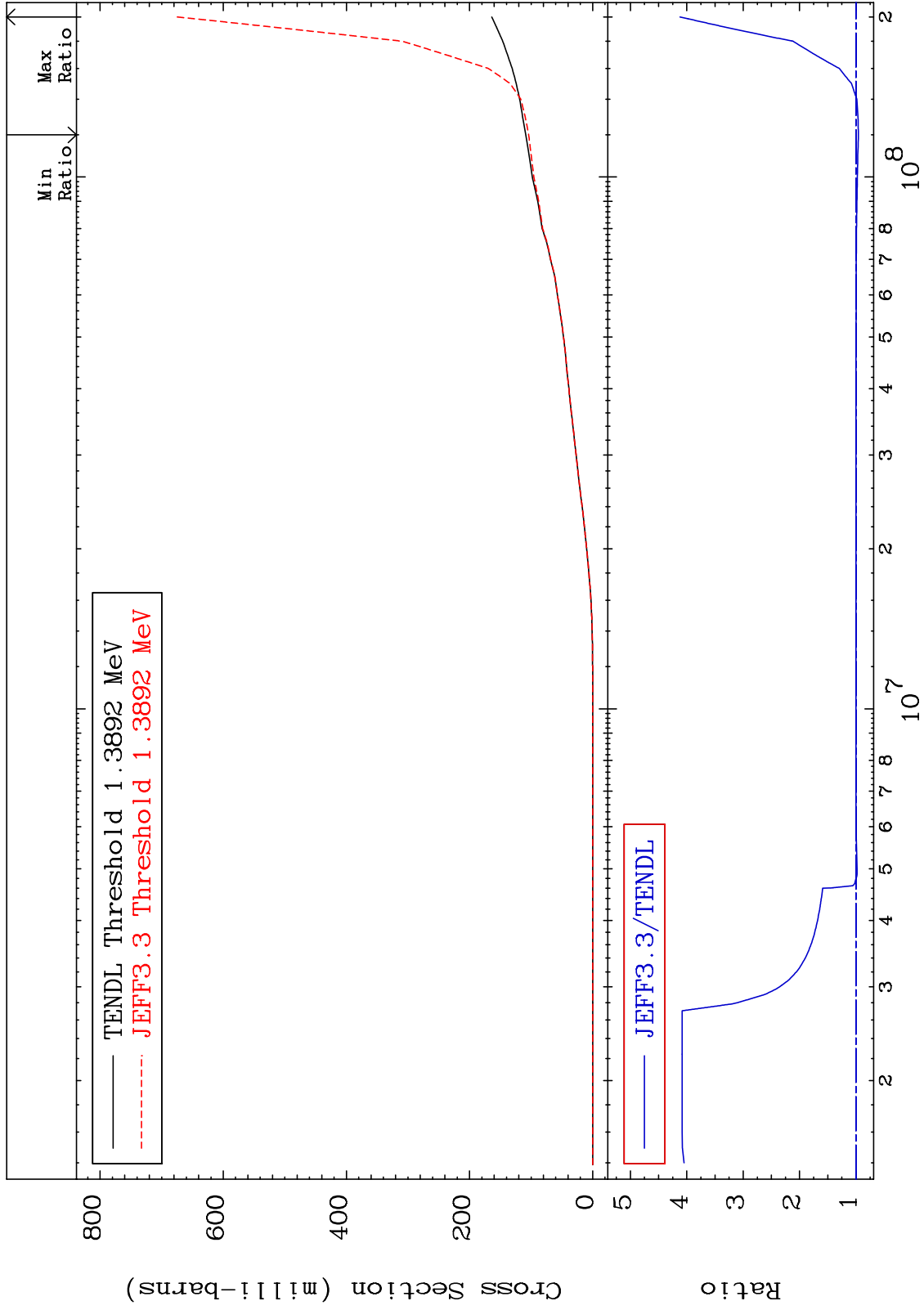
71-Lu-173
-21.08 To 200.6 %



MAT 7119

Deuterium Production
Cross Section

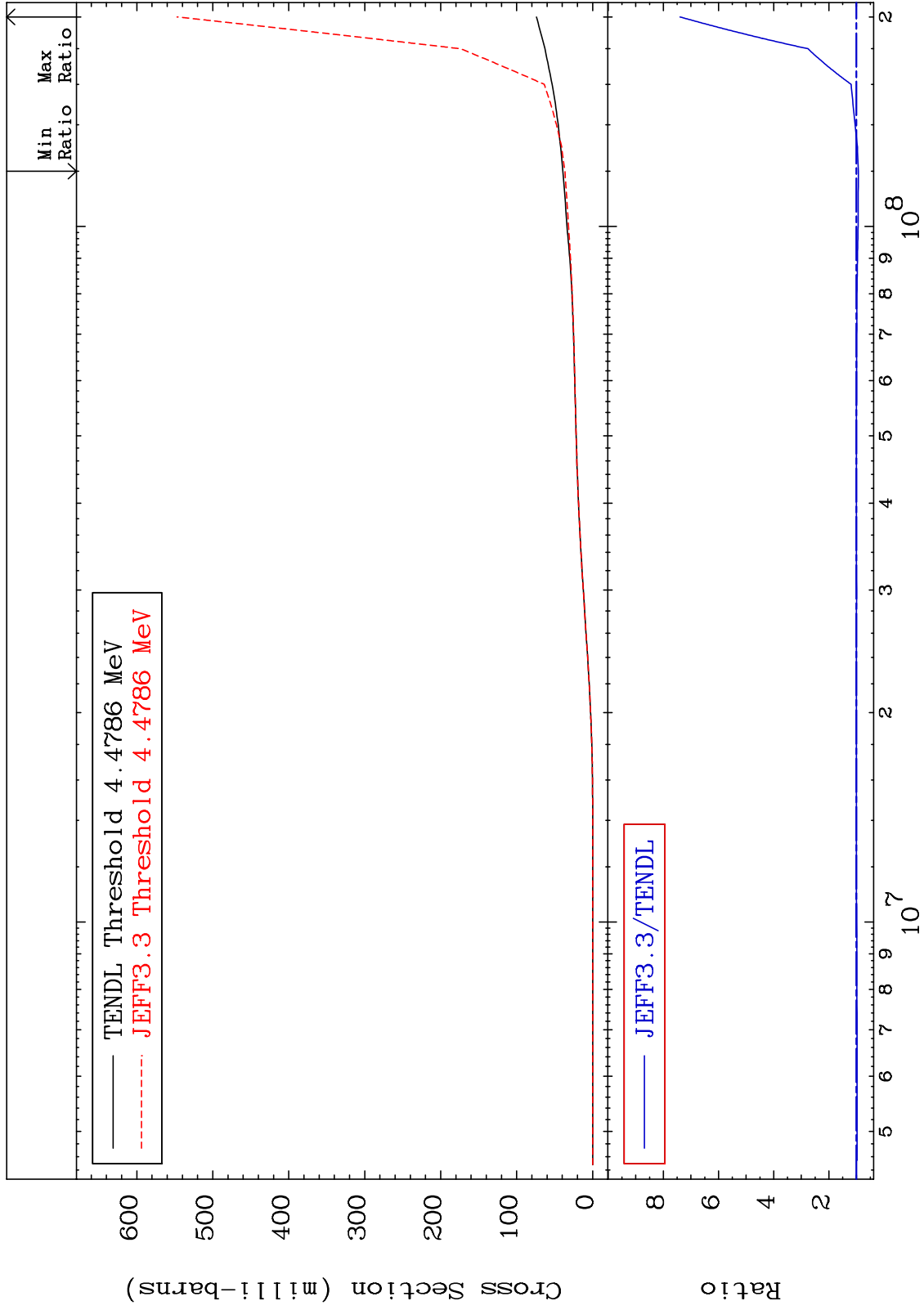
71-Lu-173
-4.343 To 312.0 %



MAT 7119

Tritium Production
Cross Section

71-Lu-173
-7.069 To 639.5 %



65

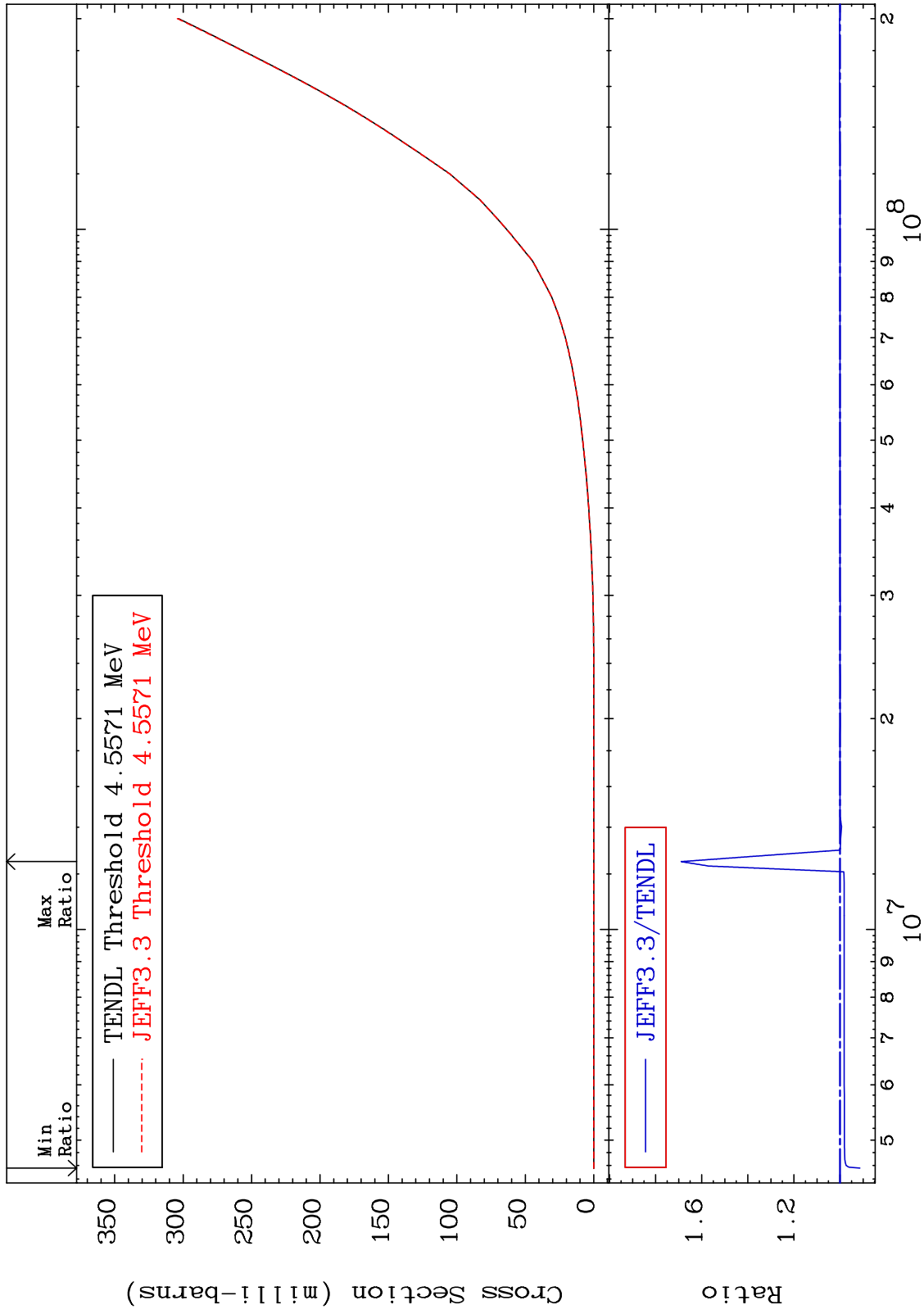
Incident Energy (eV)

71-Lu-173

MAT 7119

He-3 Production
Cross Section

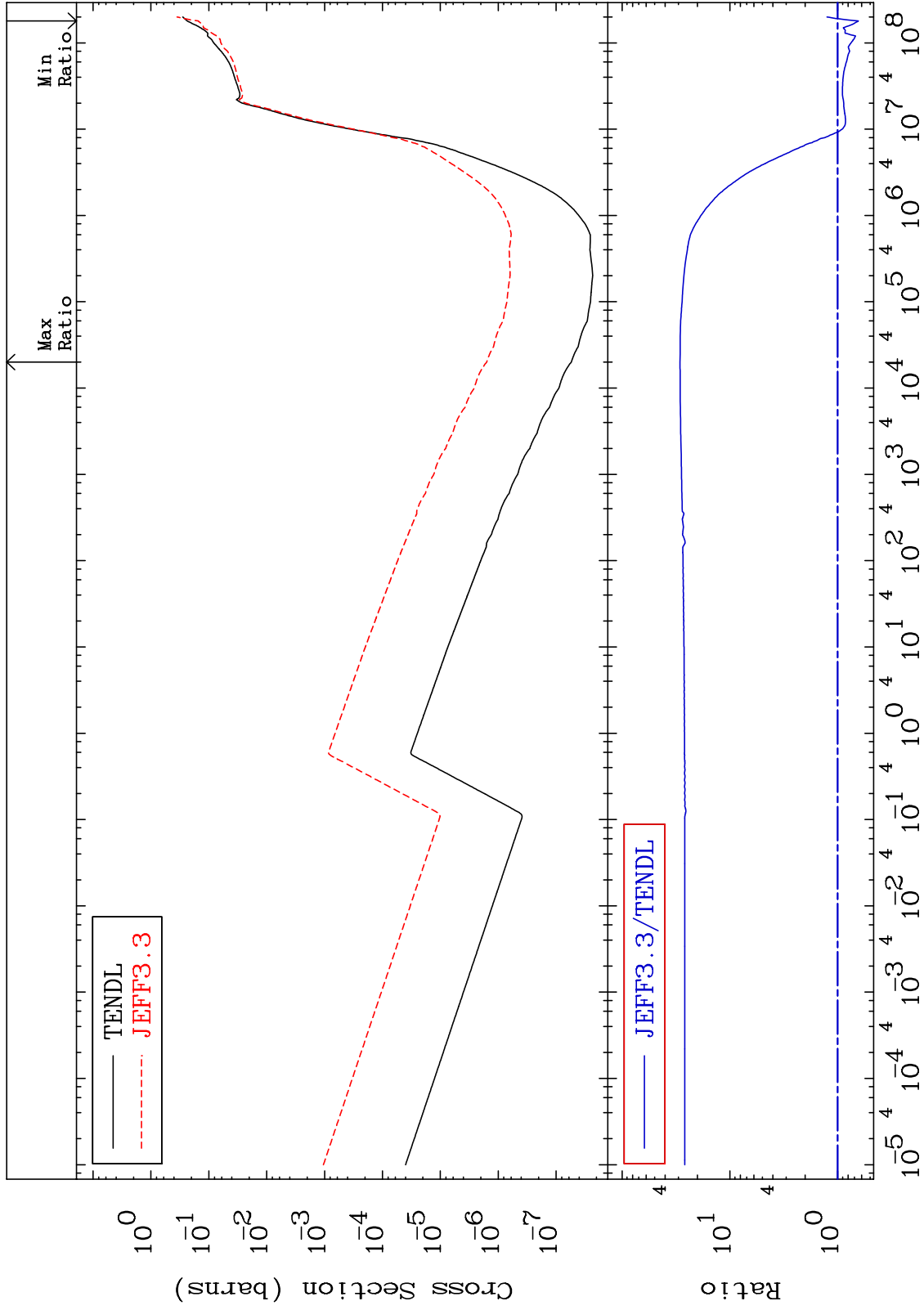
71-Lu-173
-8.623 To 68.90 %



MAT 7119

He-4 Production
Cross Section

71-Lu-173
-35.80 To 2803. %

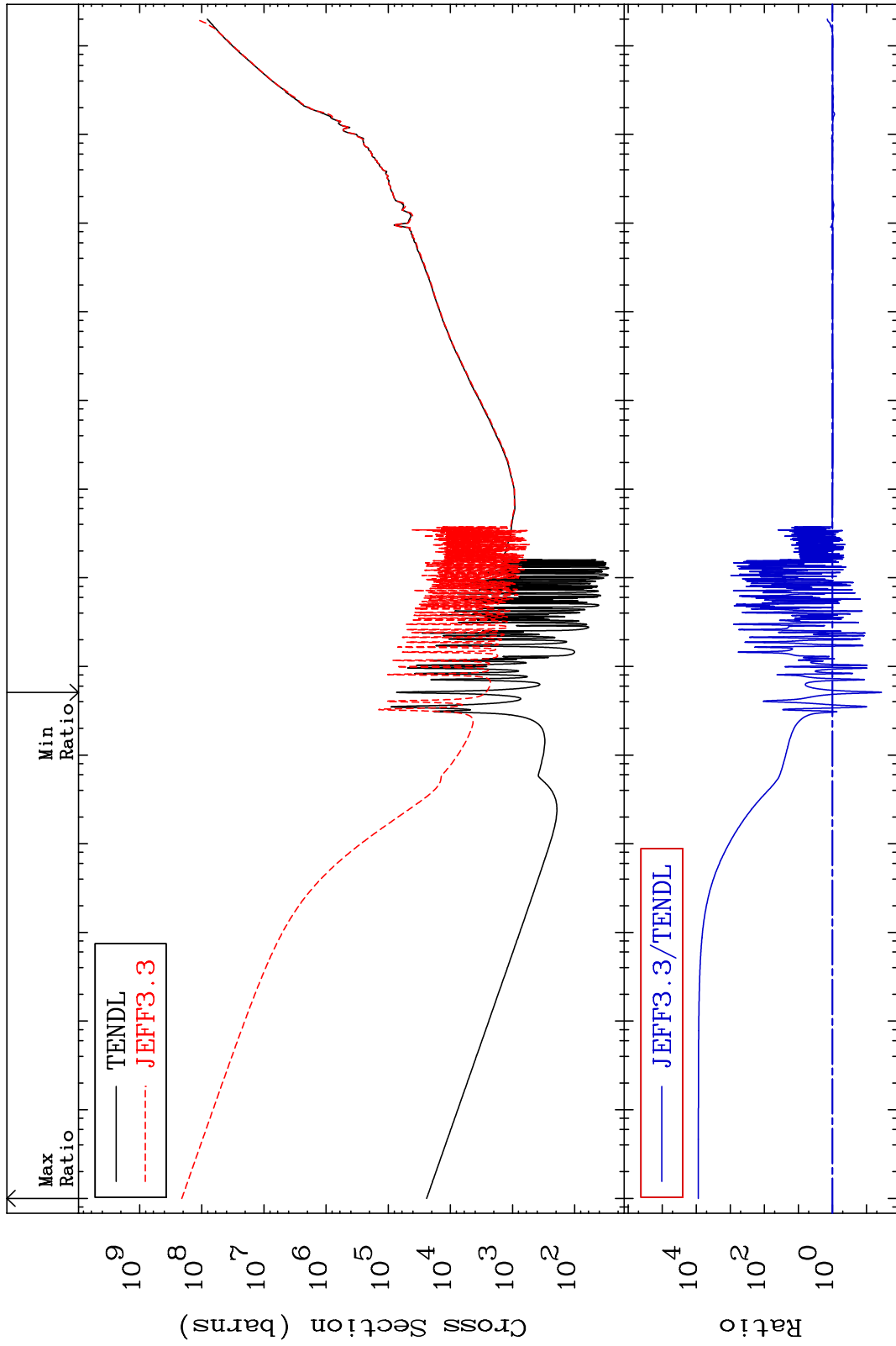


67

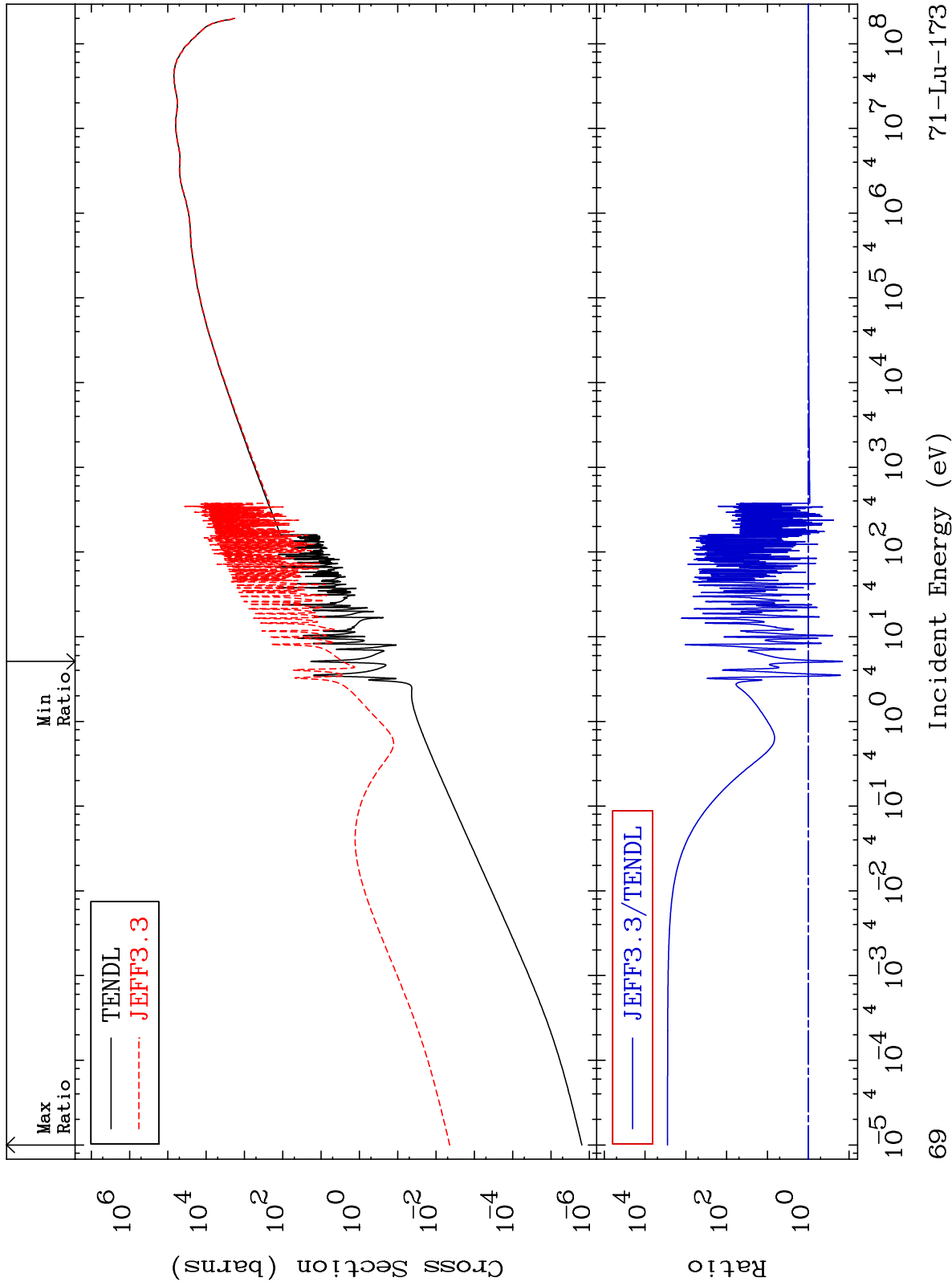
Incident Energy (eV)

71-Lu-173

MAT 7119 Kerma total (eV-barns) 71-Lu-173
 Cross Section -96.37 To 9999. %



MAT 7119 71-Lu-173
Kerma elastic -85.62 To 9999. %
Cross Section

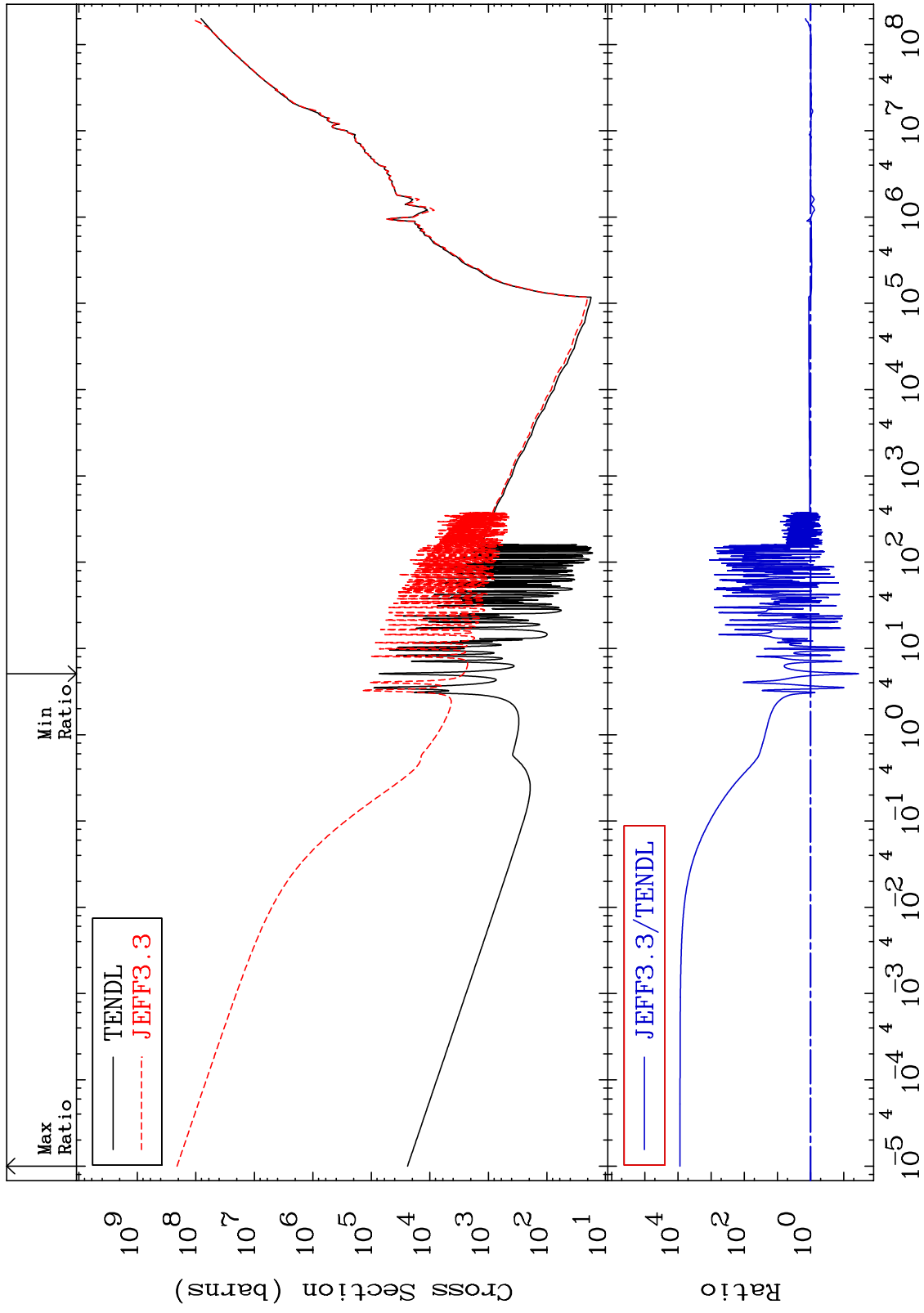


69 71-Lu-173

MAT 7119

Kerma non-elastic (all but mt2)
Cross Section

71-Lu-173
-96.38 To 9999. %



70

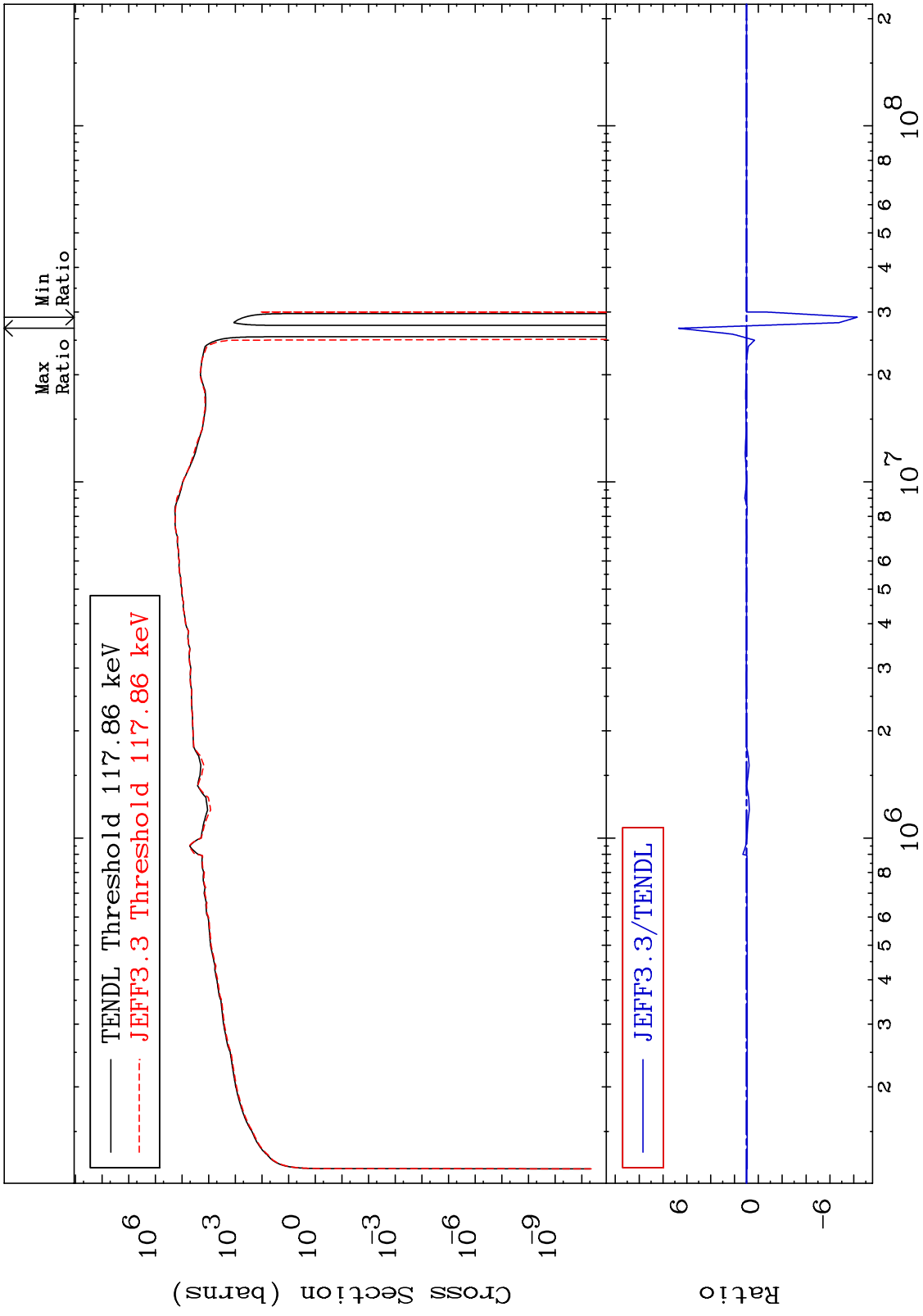
Incident Energy (eV)

71-Lu-173

MAT 7119

Kerma inelastic (mt51-91)
Cross Section

71-Lu-173
-929.8 To 568.8 %



71

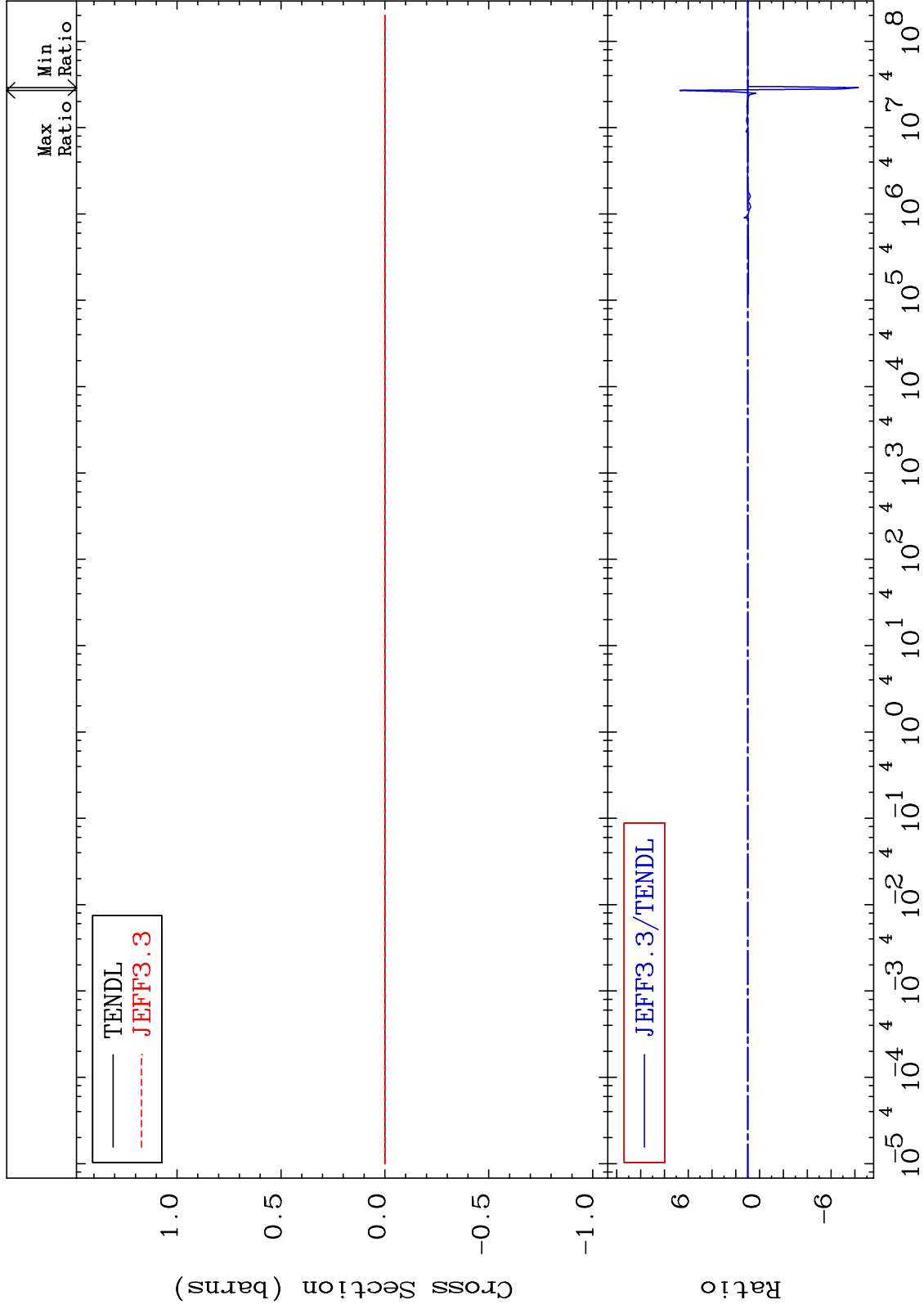
Incident Energy (eV)

71-Lu-173

MAT 7119

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

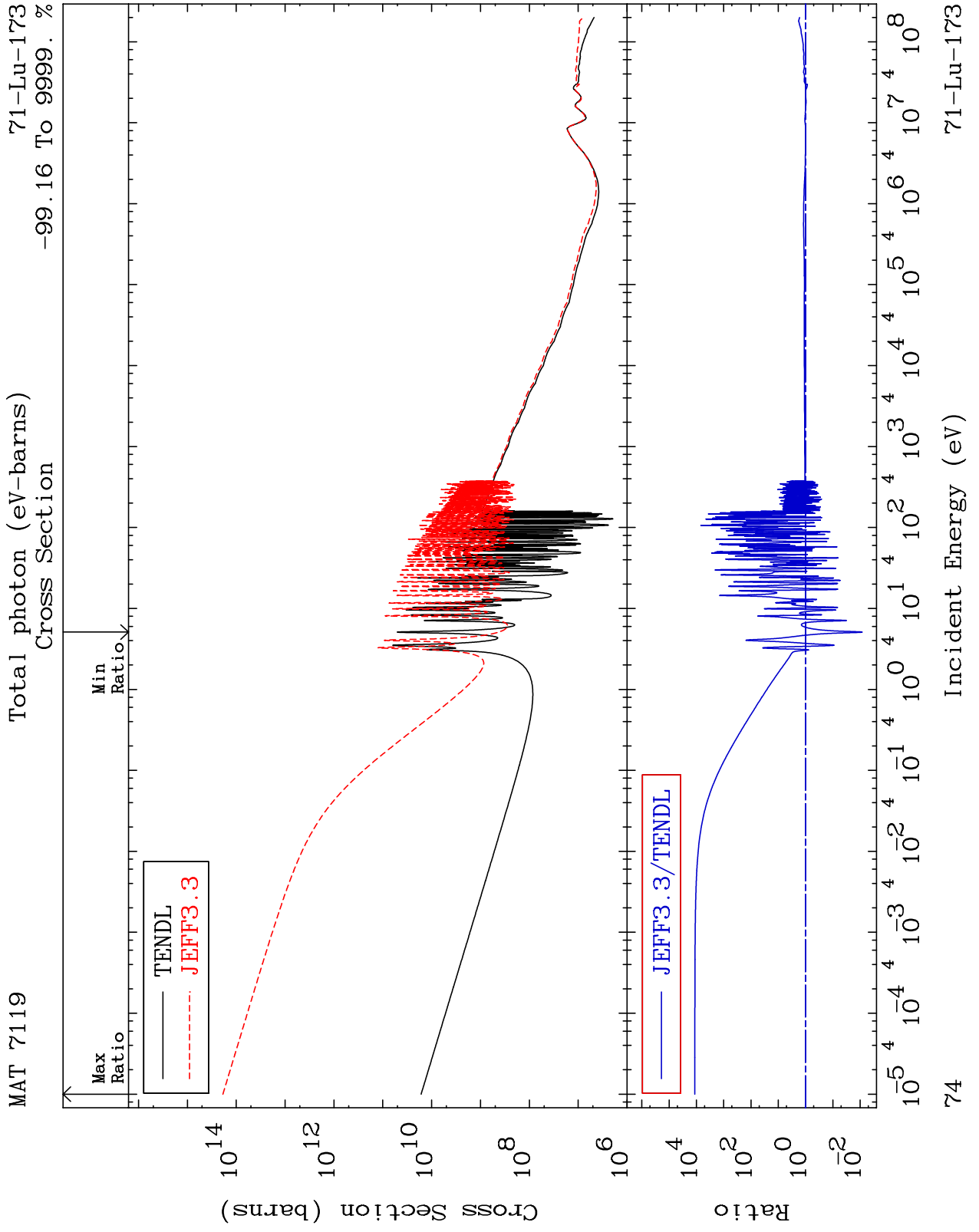
71-Lu-173
-929.8 To 568.8 %



72

Incident Energy (eV)

71-Lu-173



Max Ratio

Min Ratio

— TENDL

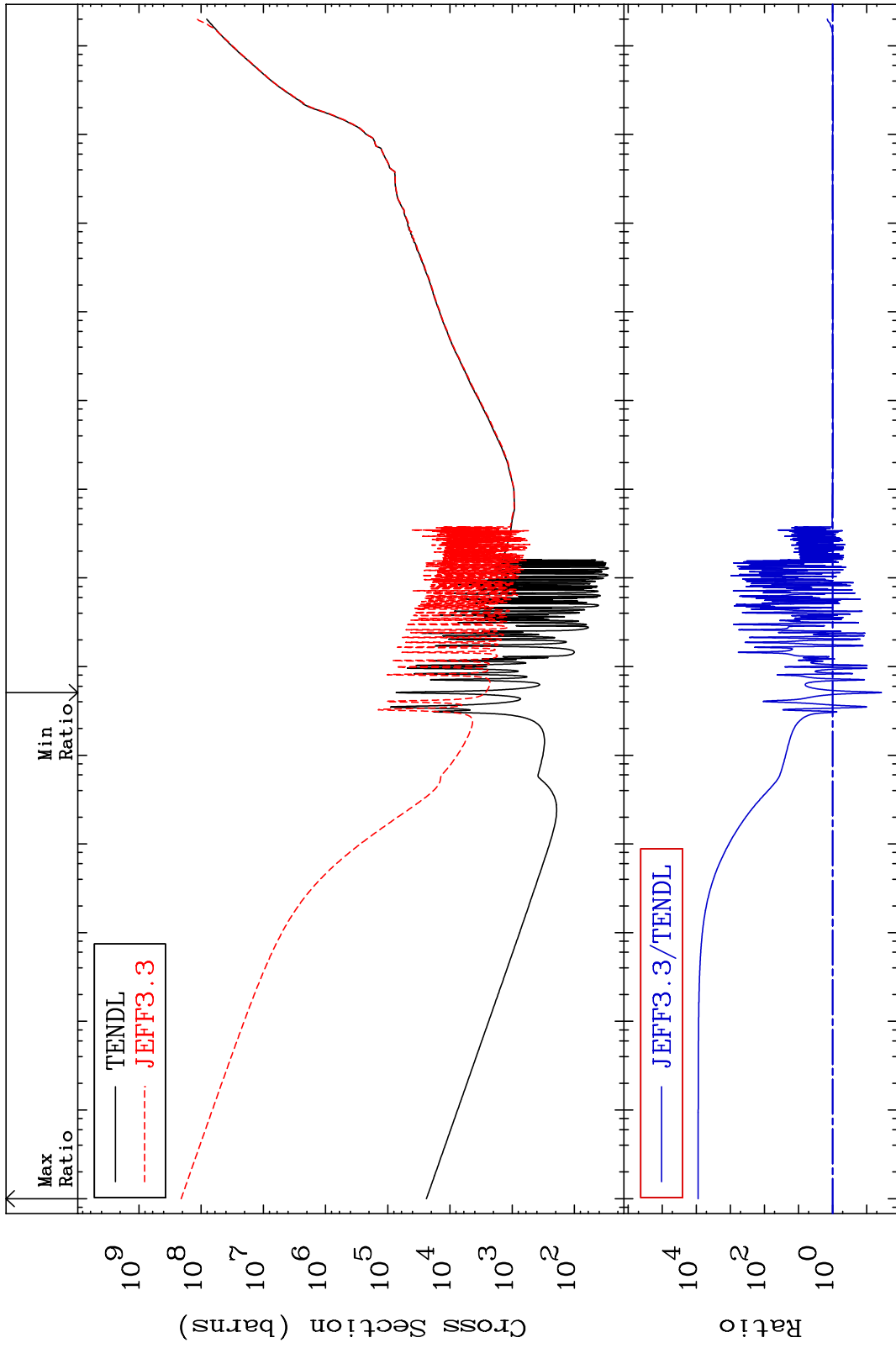
- - - JEFF3.3

— JEFF3.3/TENDL

MAT 7119

Total kinematic kerma (high limit)
Cross Section

71-Lu-173
-96.36 To 9999. %



75

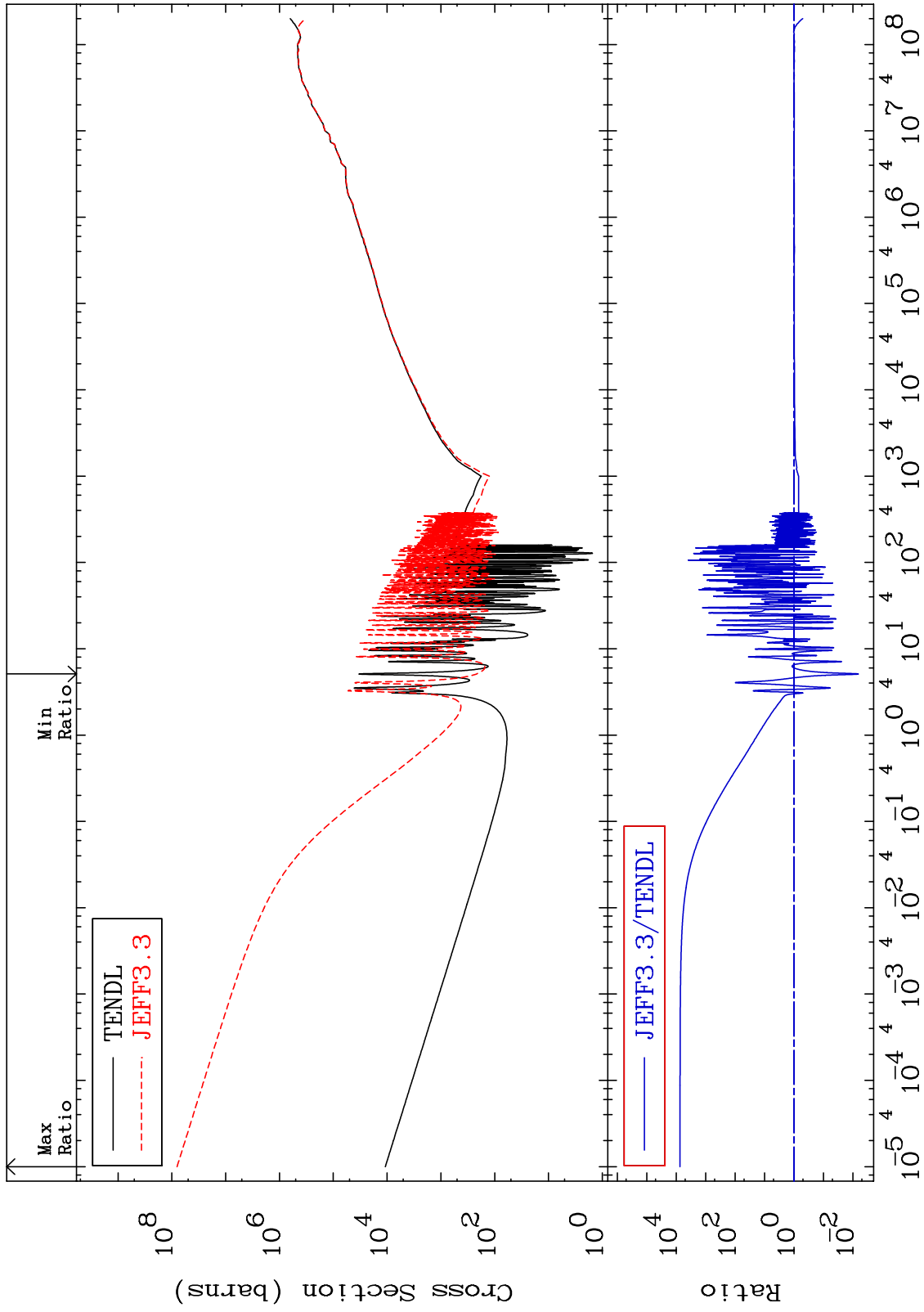
Incident Energy (eV)

71-Lu-173

MAT 7119

Dpa total (eV-barns)
Cross Section

71-Lu-173
-99.35 To 9999. %



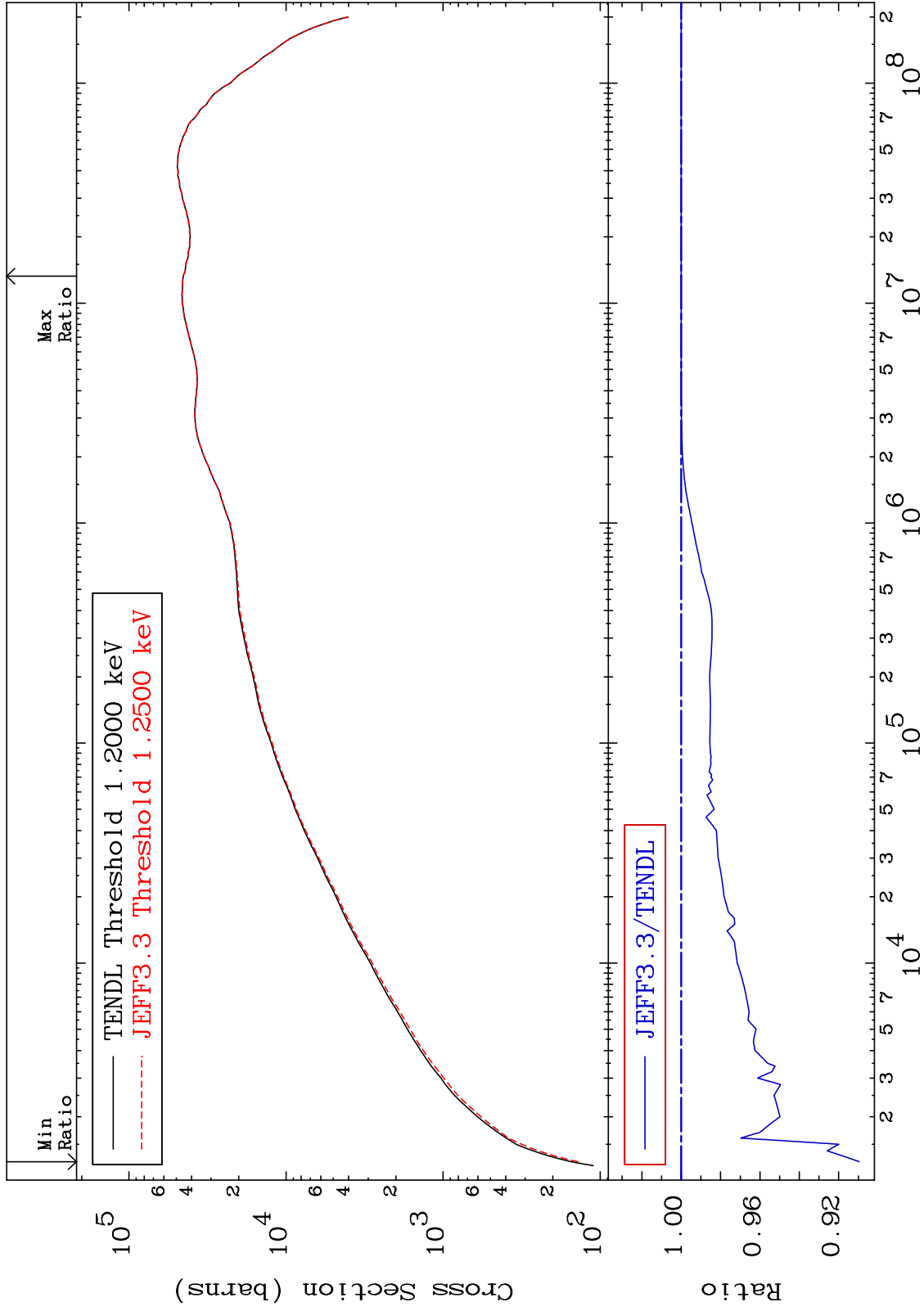
76

71-Lu-173

MAT 7119

Dpa elastic (mt2)
Cross Section

71-Lu-173
-9.040 To 0.030 %

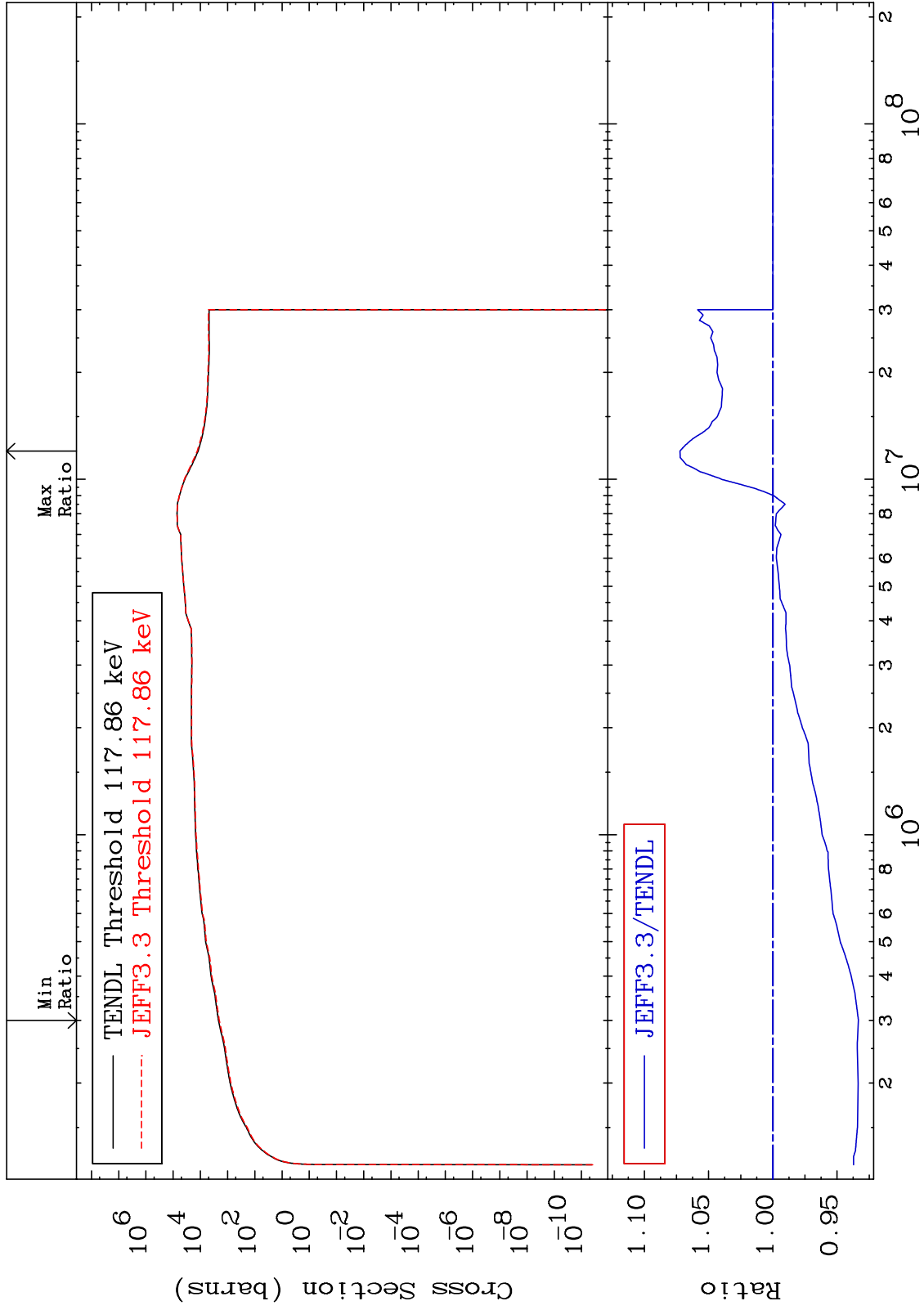


71-Lu-173

MAT 7119

Dpa inelastic (mt51-91)
Cross Section

71-Lu-173
-6.659 To 7.227 %

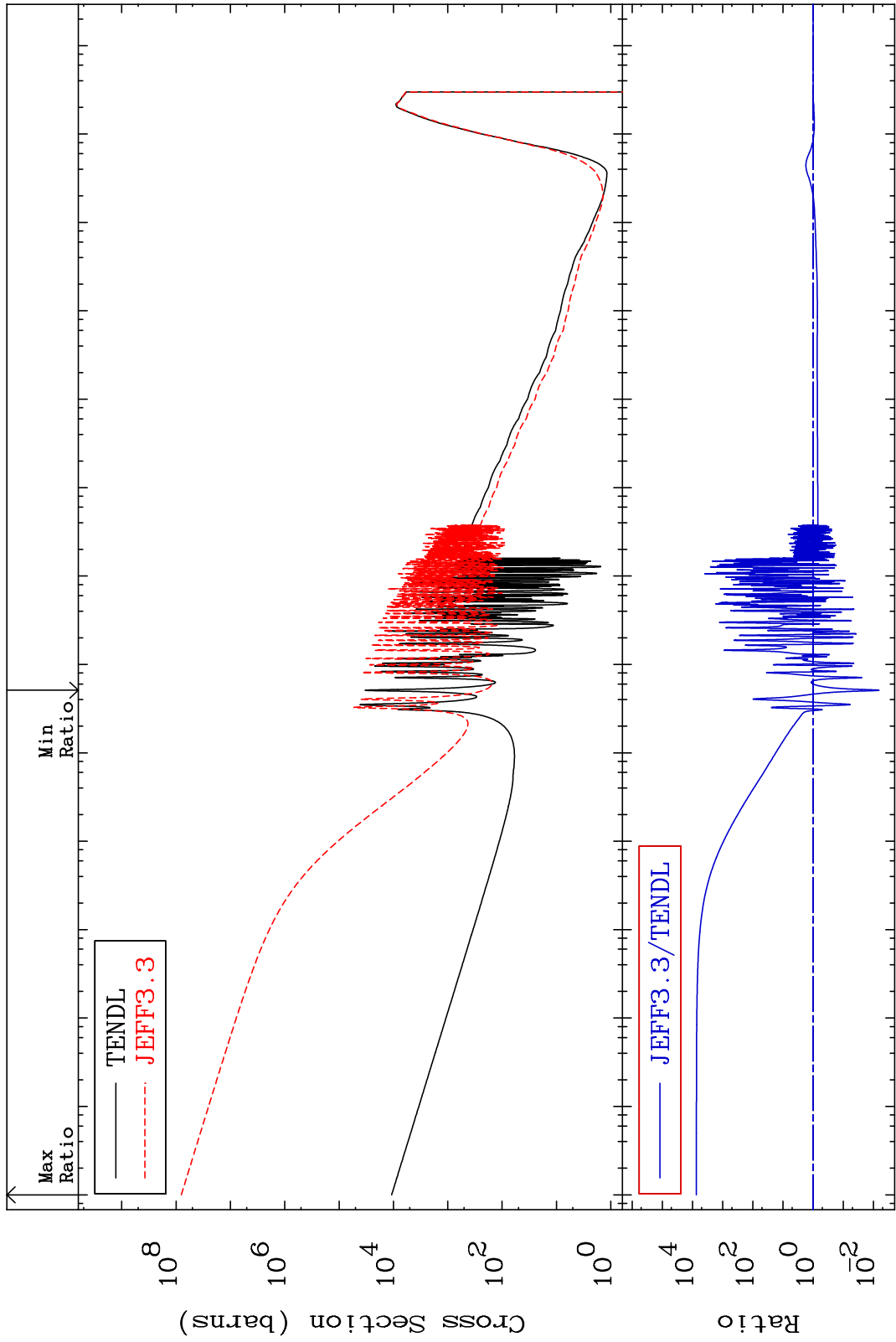


78

Incident Energy (eV)

71-Lu-173

MAT 7119 Dpa disappearance (mt102 -120) 71-Lu-173
Cross Section -99.35 To 9999. %

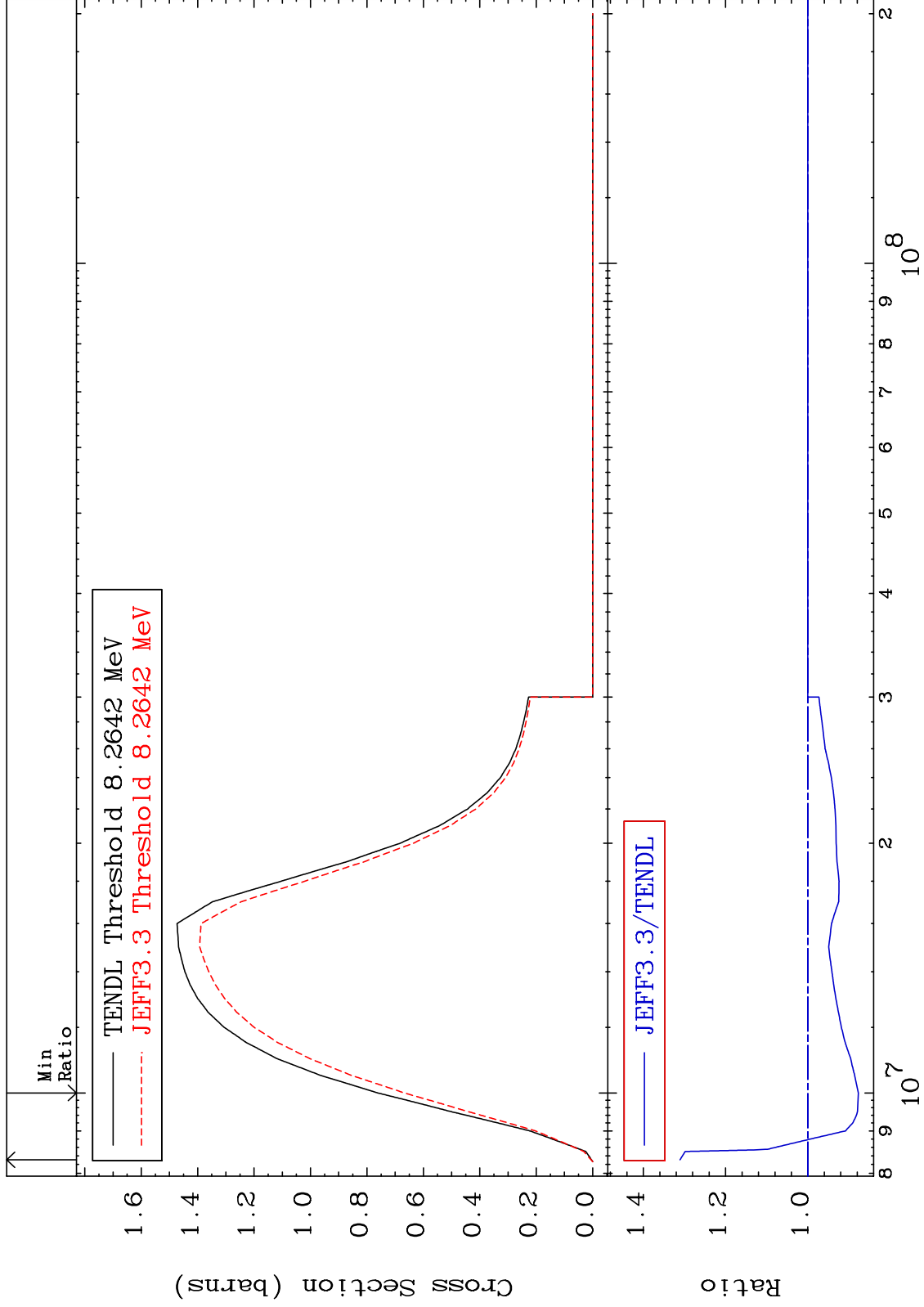


MAT 7119

(n,2n):71-Lu-172g

71-Lu-173

Radionuclide Production Cross Section -12.29 To 31.08 %



80

Incident Energy (eV)

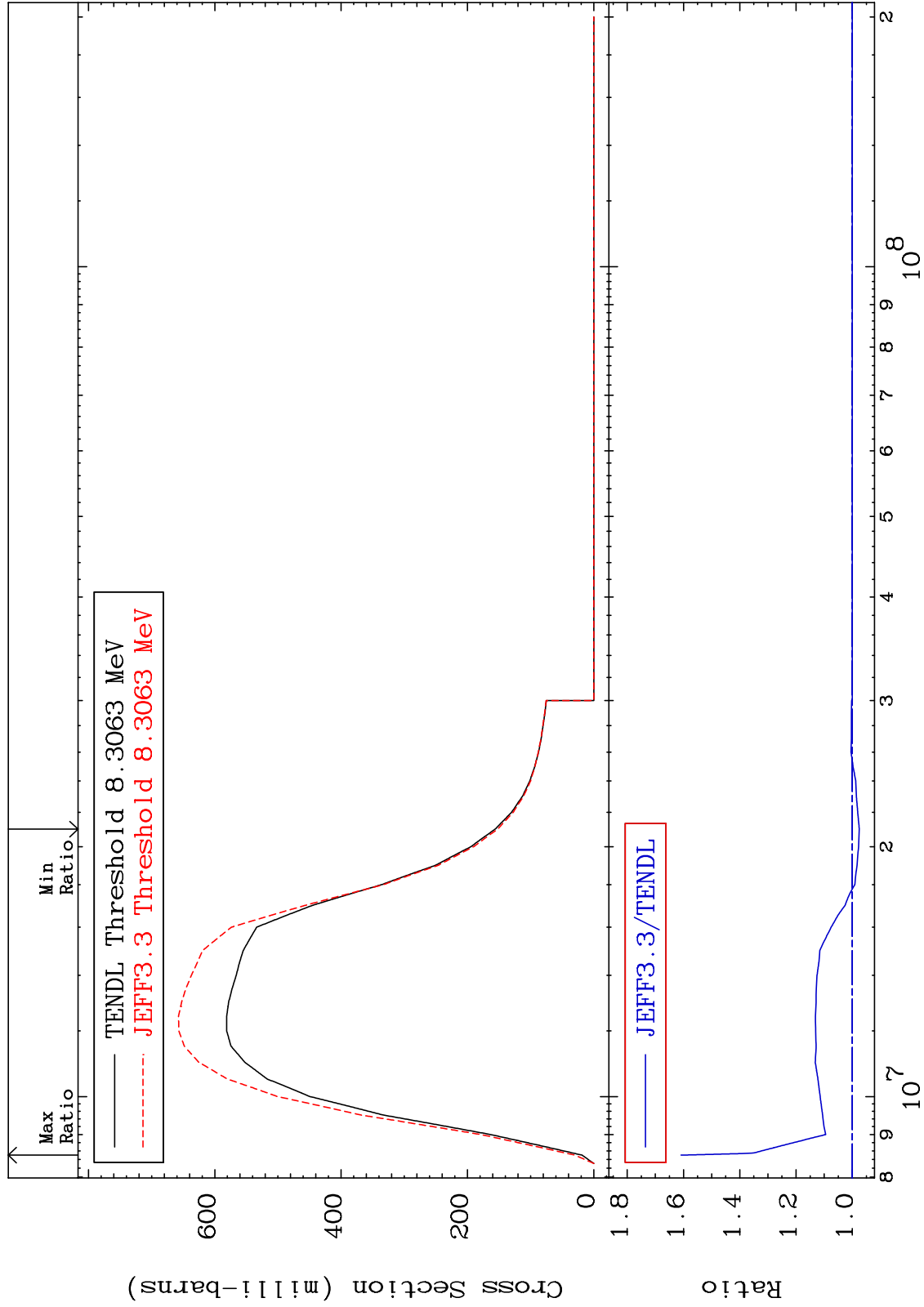
71-Lu-173

MAT 7119

(n,2n): 71-Lu-172m1

71-Lu-173

Radionuclide Production Cross Section -2.476 To 60.87 %



81

Incident Energy (eV)

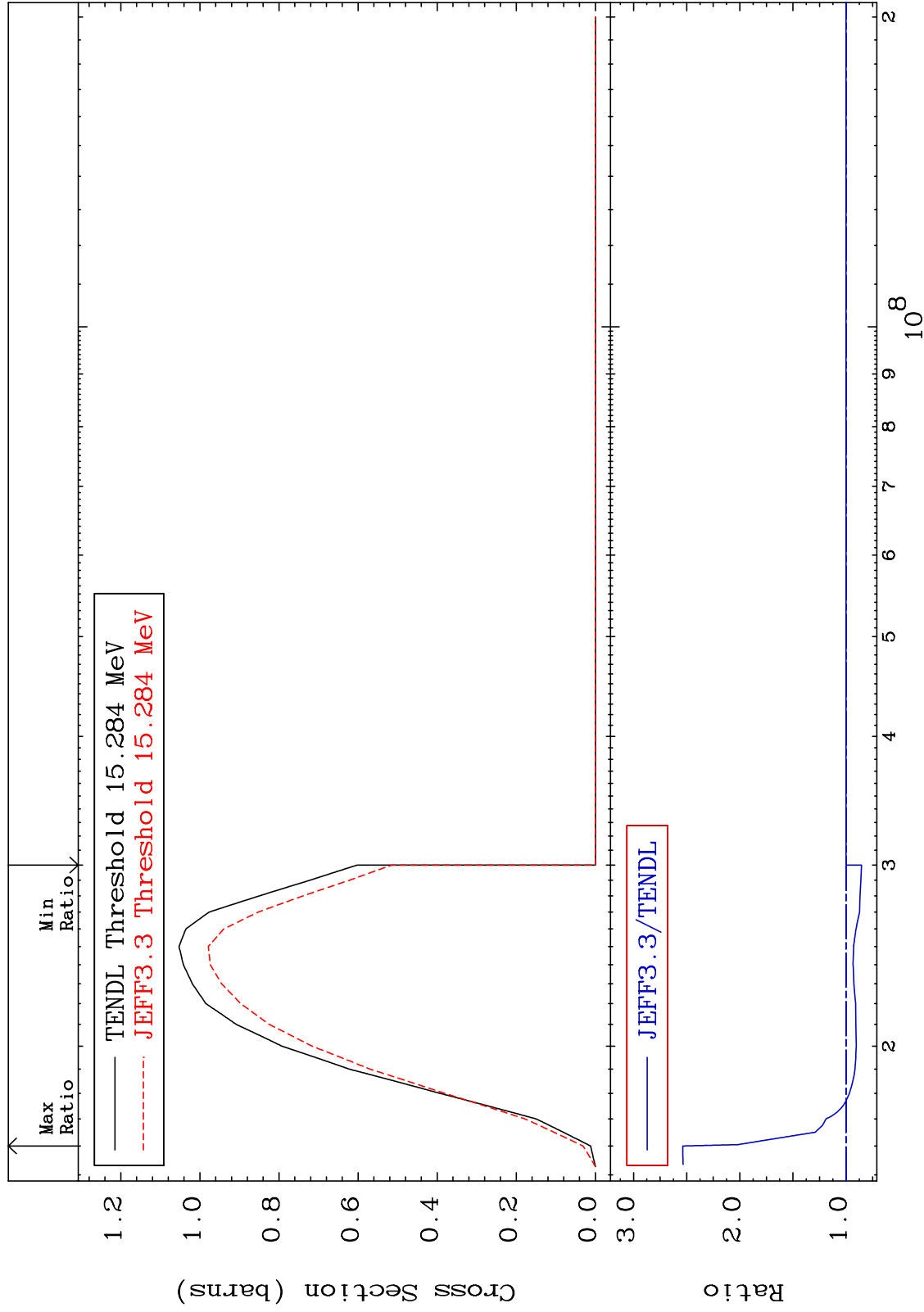
71-Lu-173

MAT 7119

(n,3n):71-Lu-171g

71-Lu-173

Radionuclide Production Cross Section -14.55 To 153.6 %

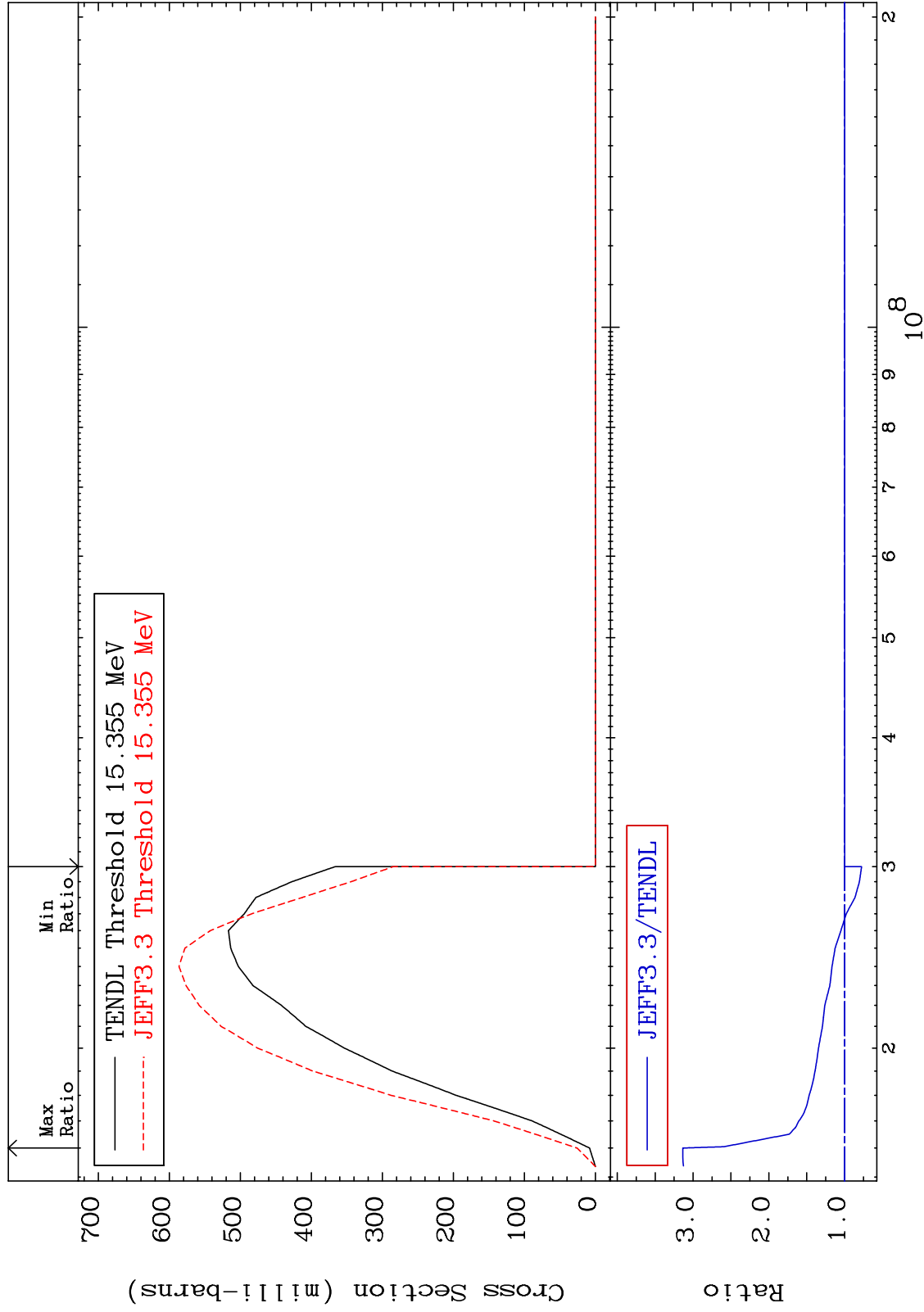


MAT 7119

(n,3n):71-Lu-171m1

71-Lu-173

Radionuclide Production Cross Section -22.35 To 213.4 %

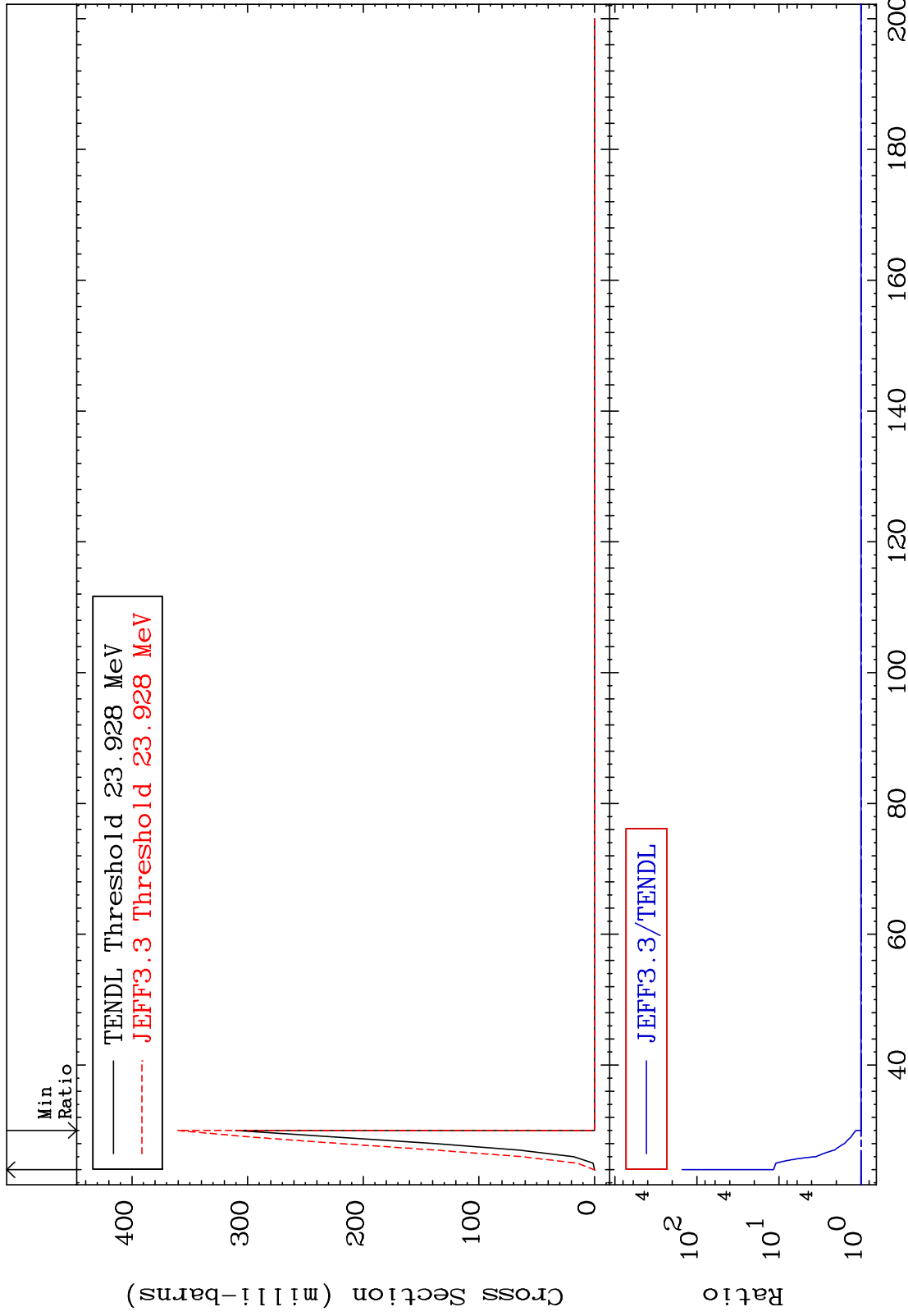


MAT 7119

(n,4n):71-Lu-170g

71-Lu-173

Radionuclide Production Cross Section 0.000 To 9999. %

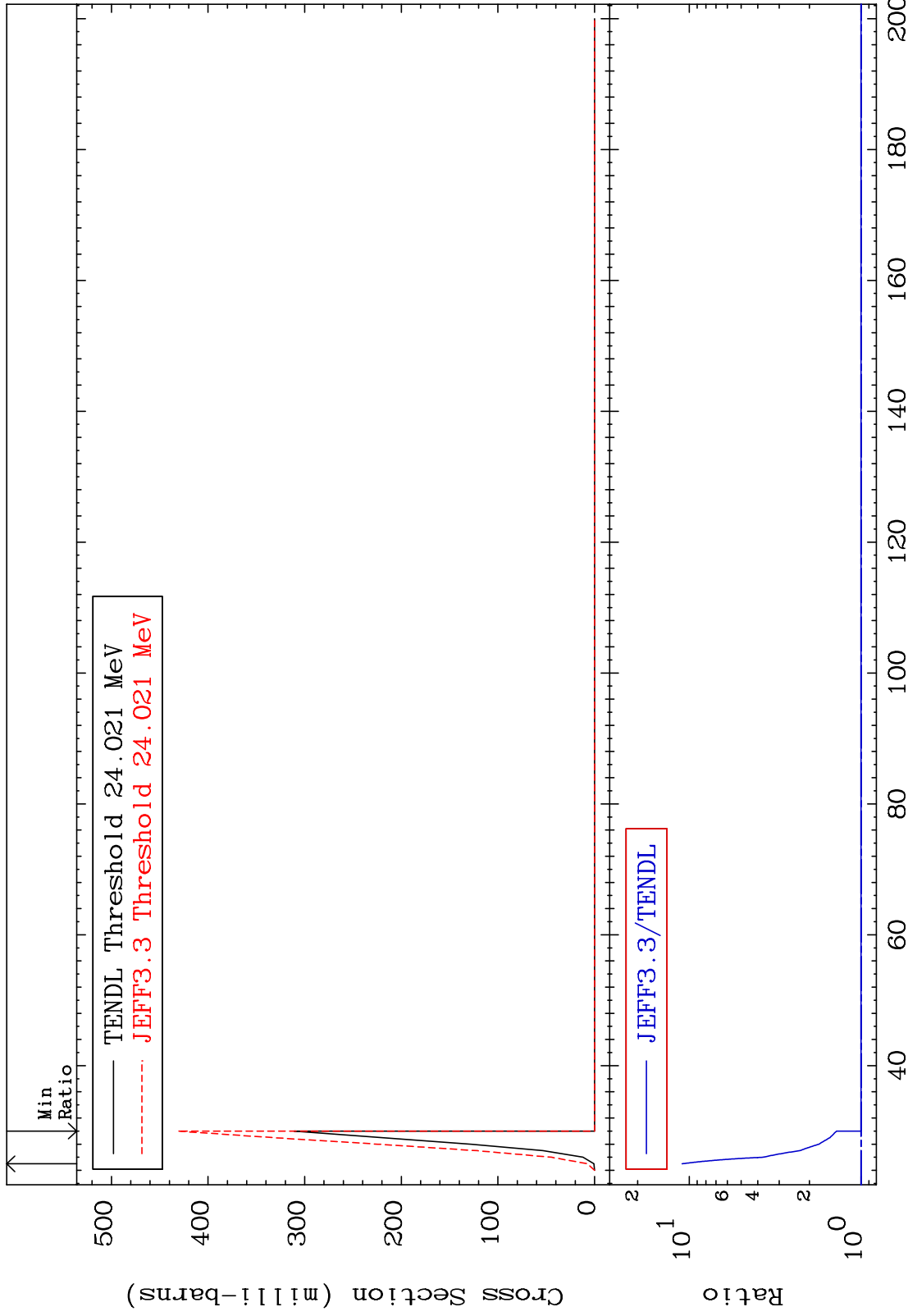


MAT 7119

(n, 4n): 71-Lu-170m2

71-Lu-173

Radionuclide Production Cross Section 0.000 To 1002. %



85

Incident Energy (MeV)

71-Lu-173