

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

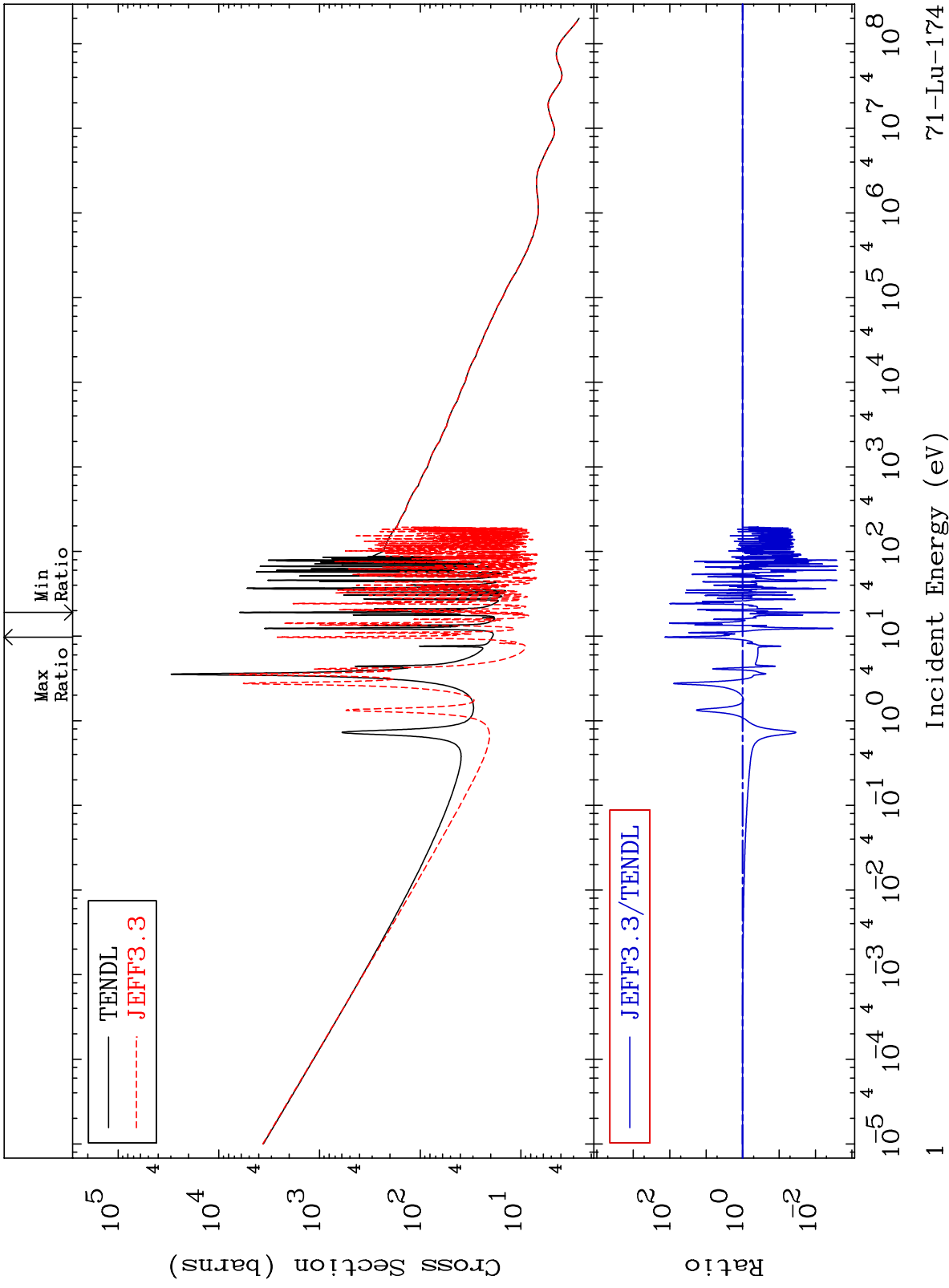
Press Mouse Button to Start

MAT 7122

71-Lu-174

-99.78 To 9999. %

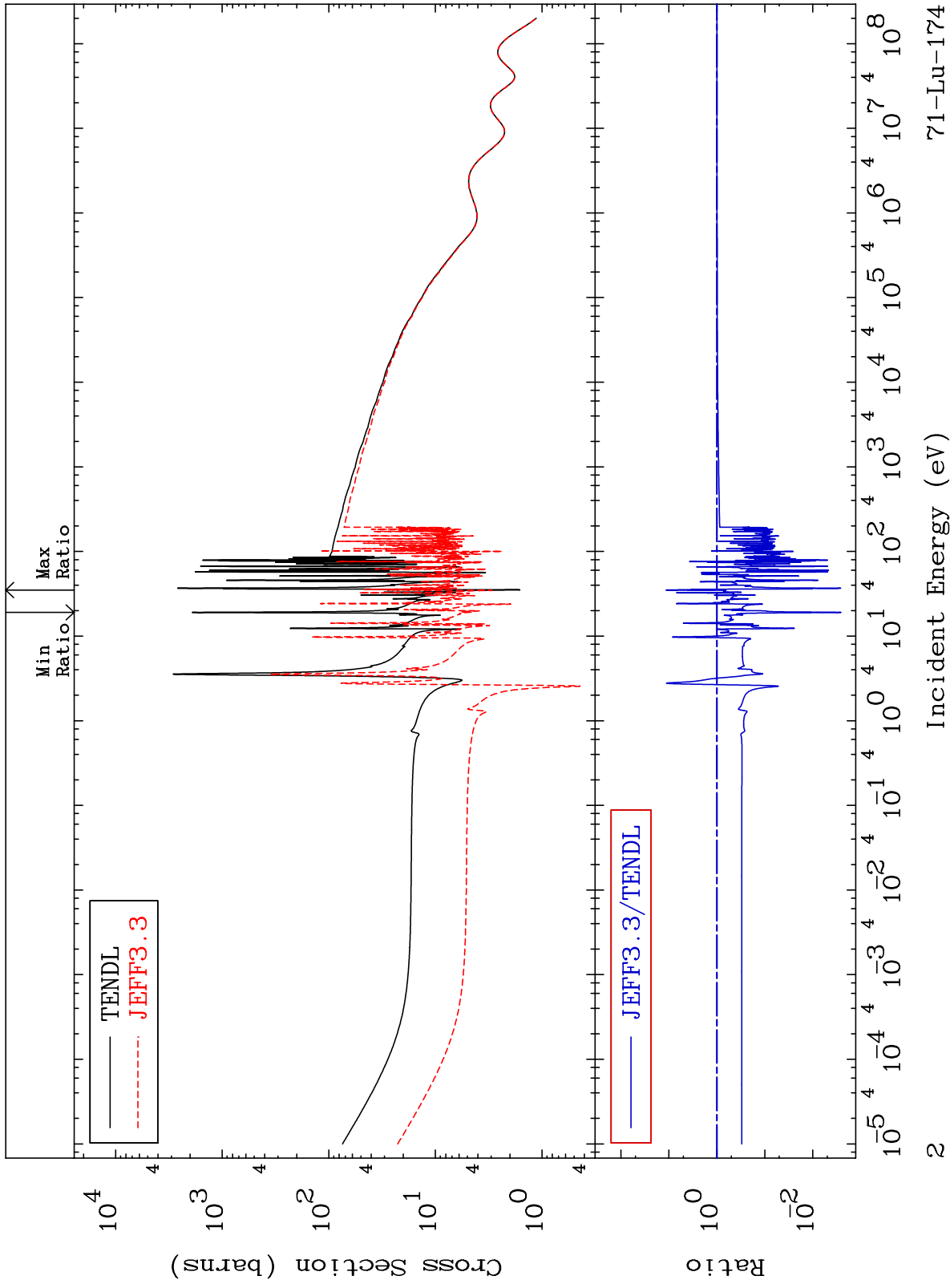
Total
Cross Section



MAT 7122

Elastic
Cross Section

71-Lu-174
-99.74 To 1055. %



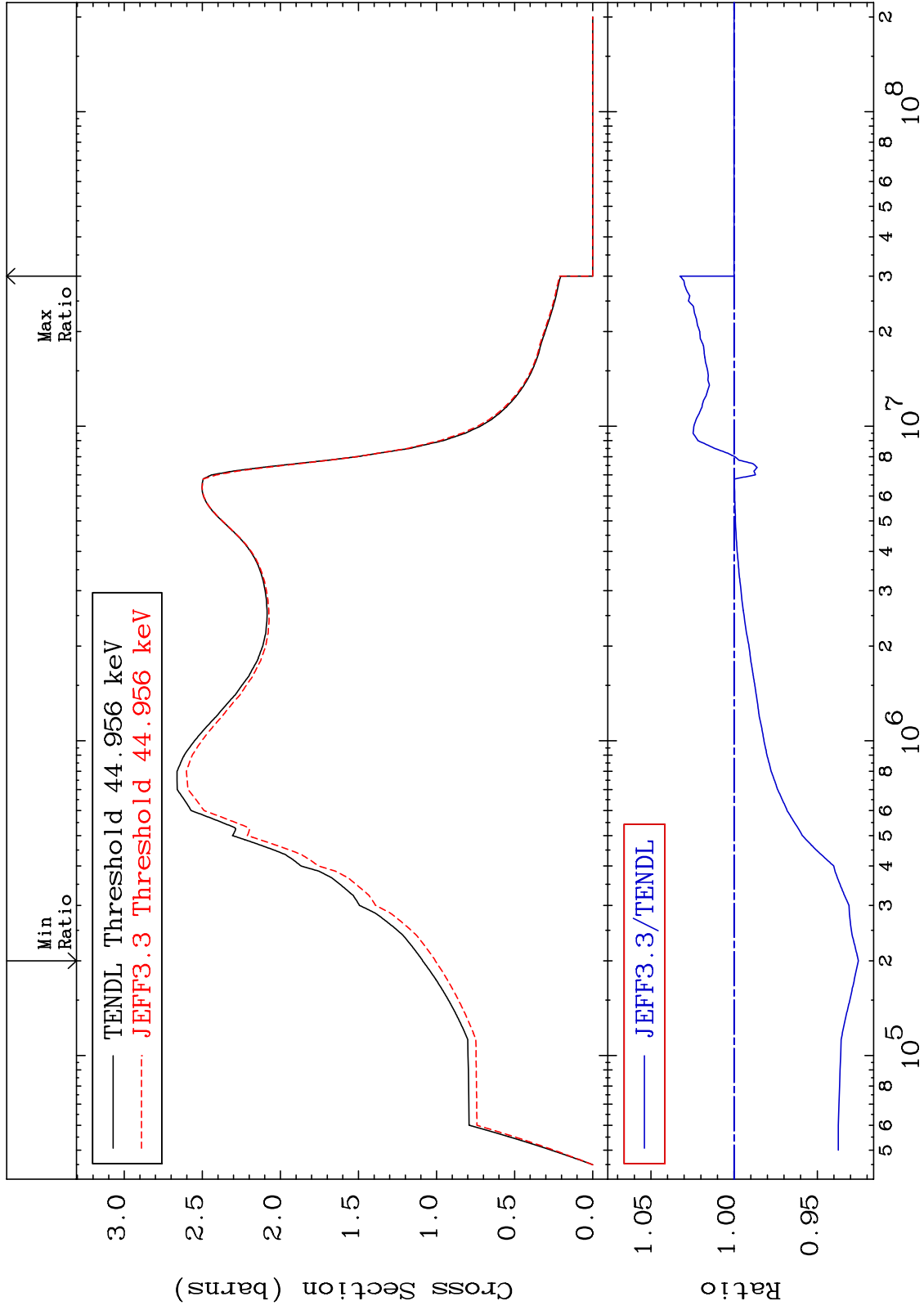
71-Lu-174

Incident Energy (eV)

MAT 7122

Inelastic
Cross Section

71-Lu-174
-7.472 To 3.251 %



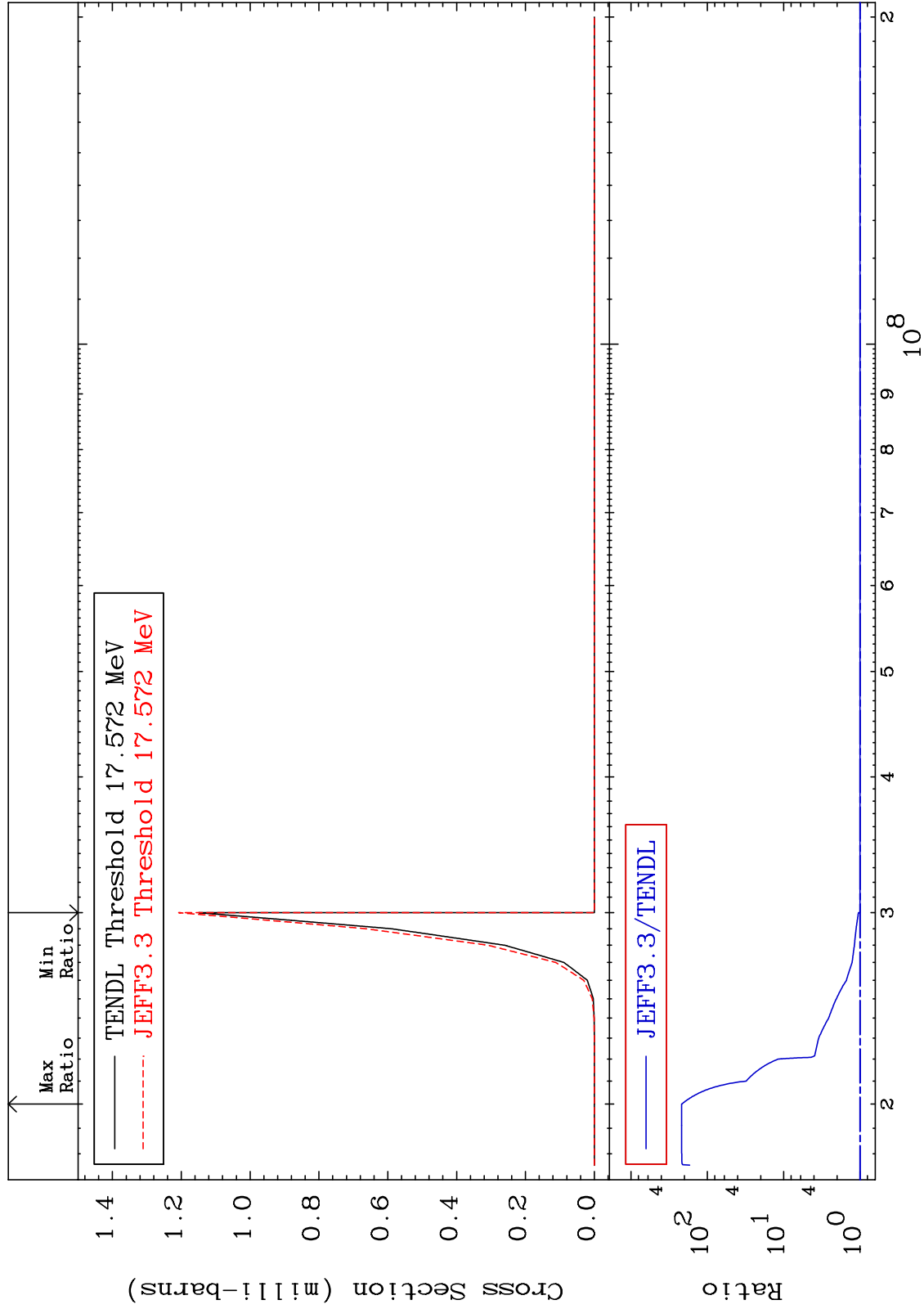
MAT 7122

(n,2n) d

71-Lu-174

Cross Section

0.000 To 9999. %



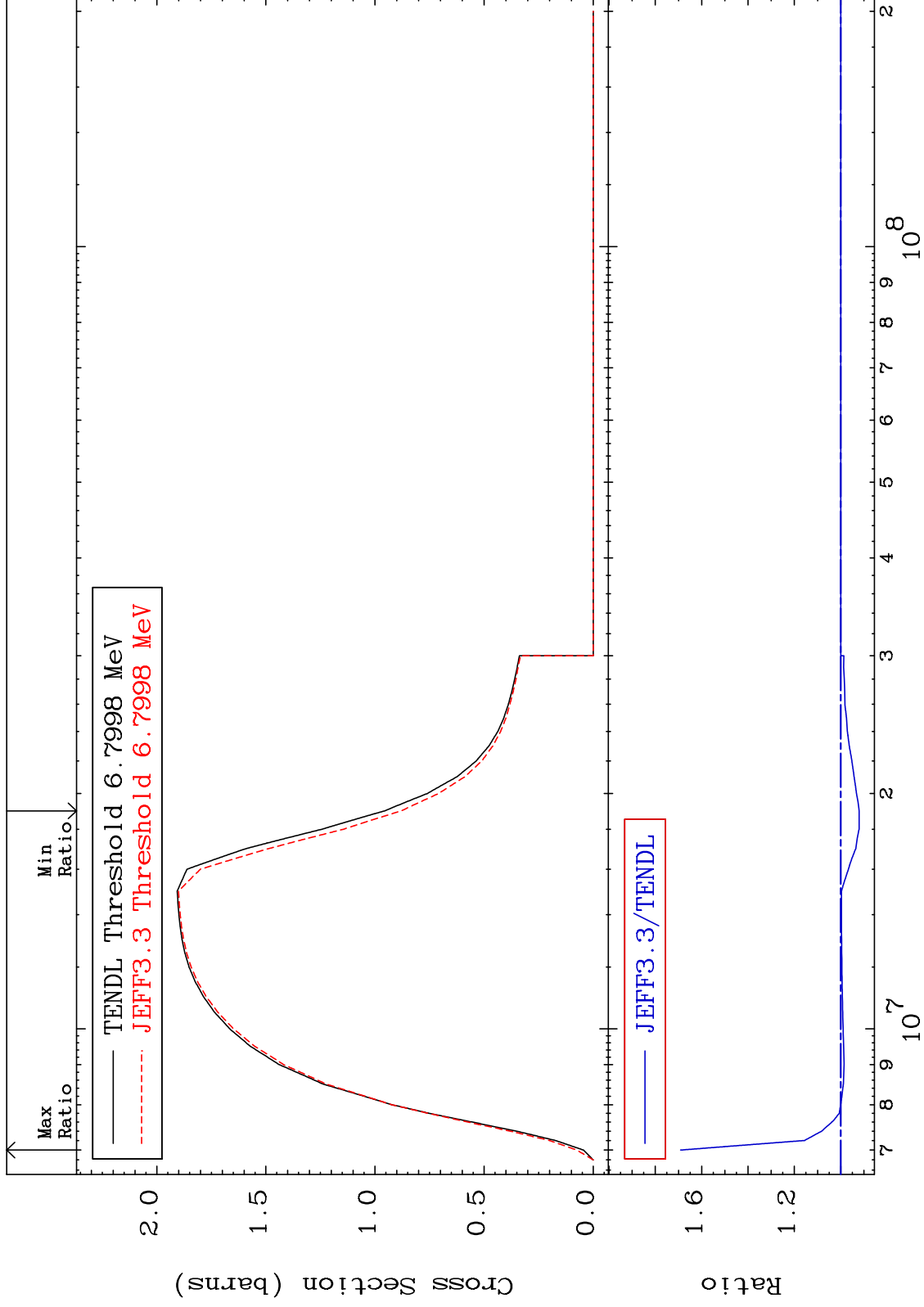
MAT 7122

(n, 2n)

⁷¹-Lu-174

Cross Section

-7.963 To 69.08 %



5

Incident Energy (eV)

⁷¹-Lu-174

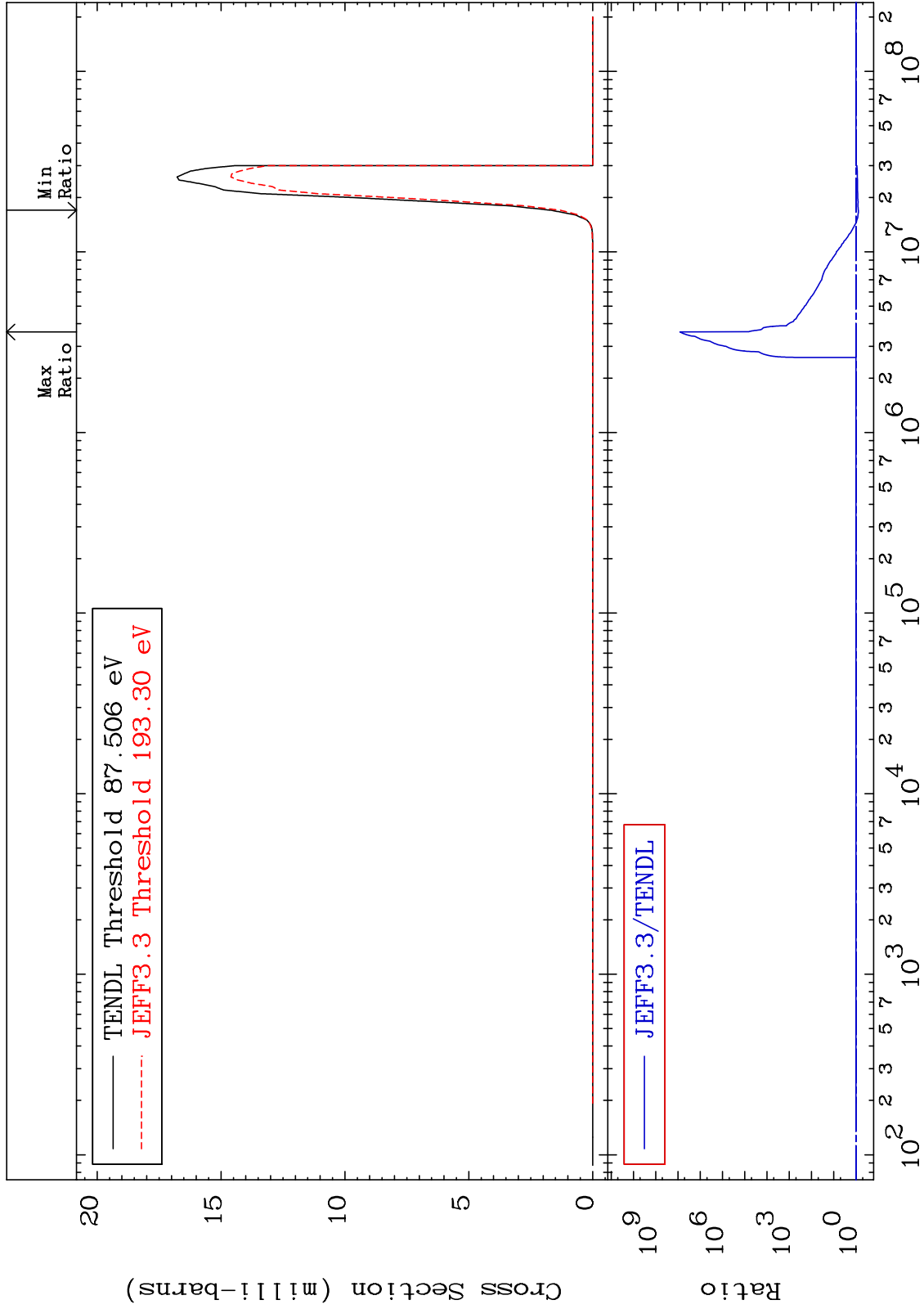
MAT 7122

(n, n') α

71-Lu-174

Cross Section

-22.18 To 9999. %



71-Lu-174

Incident Energy (eV)

7

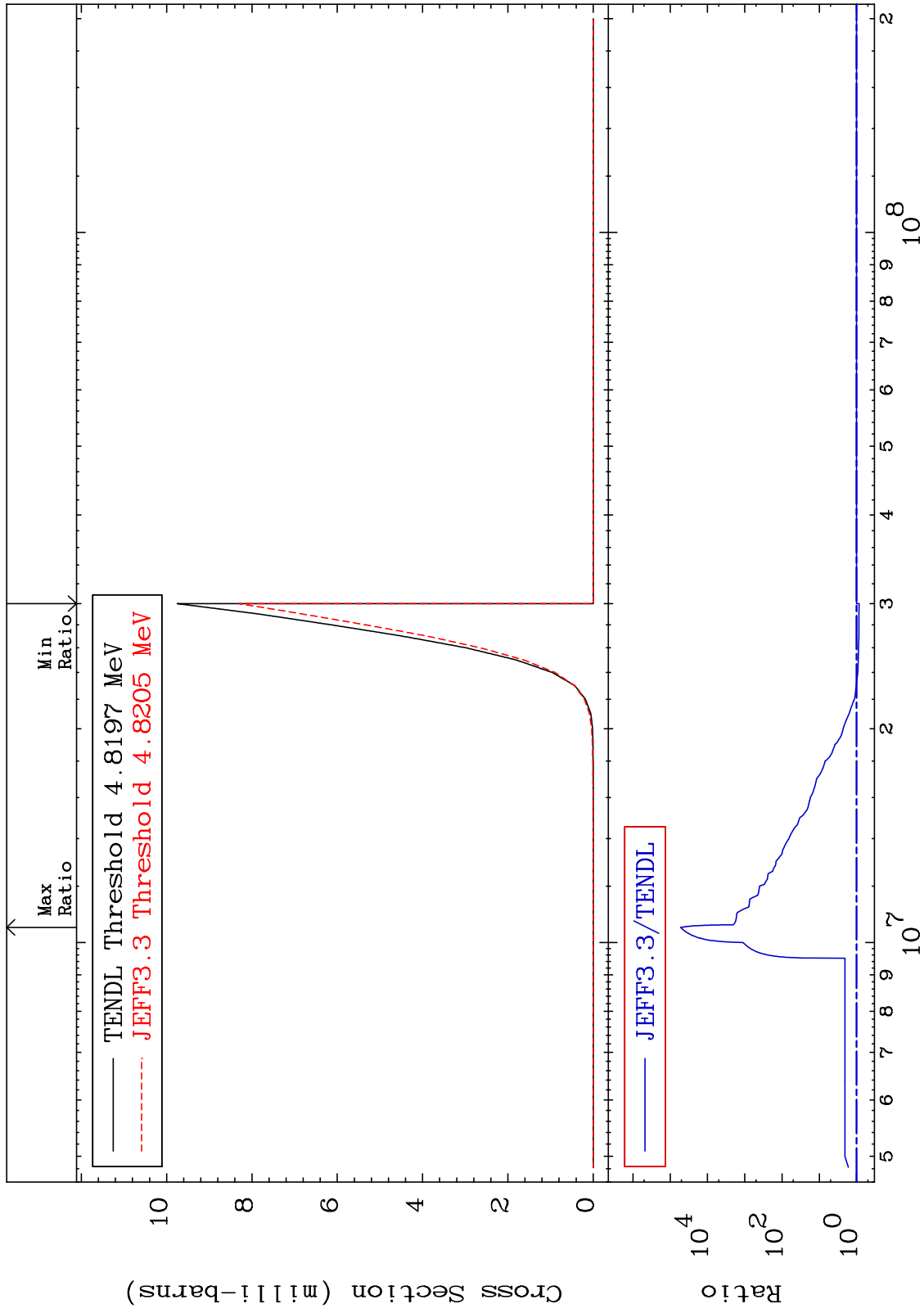
MAT 7122

(n,2n) α

71-Lu-174

Cross Section

-14.85 To 9999. %



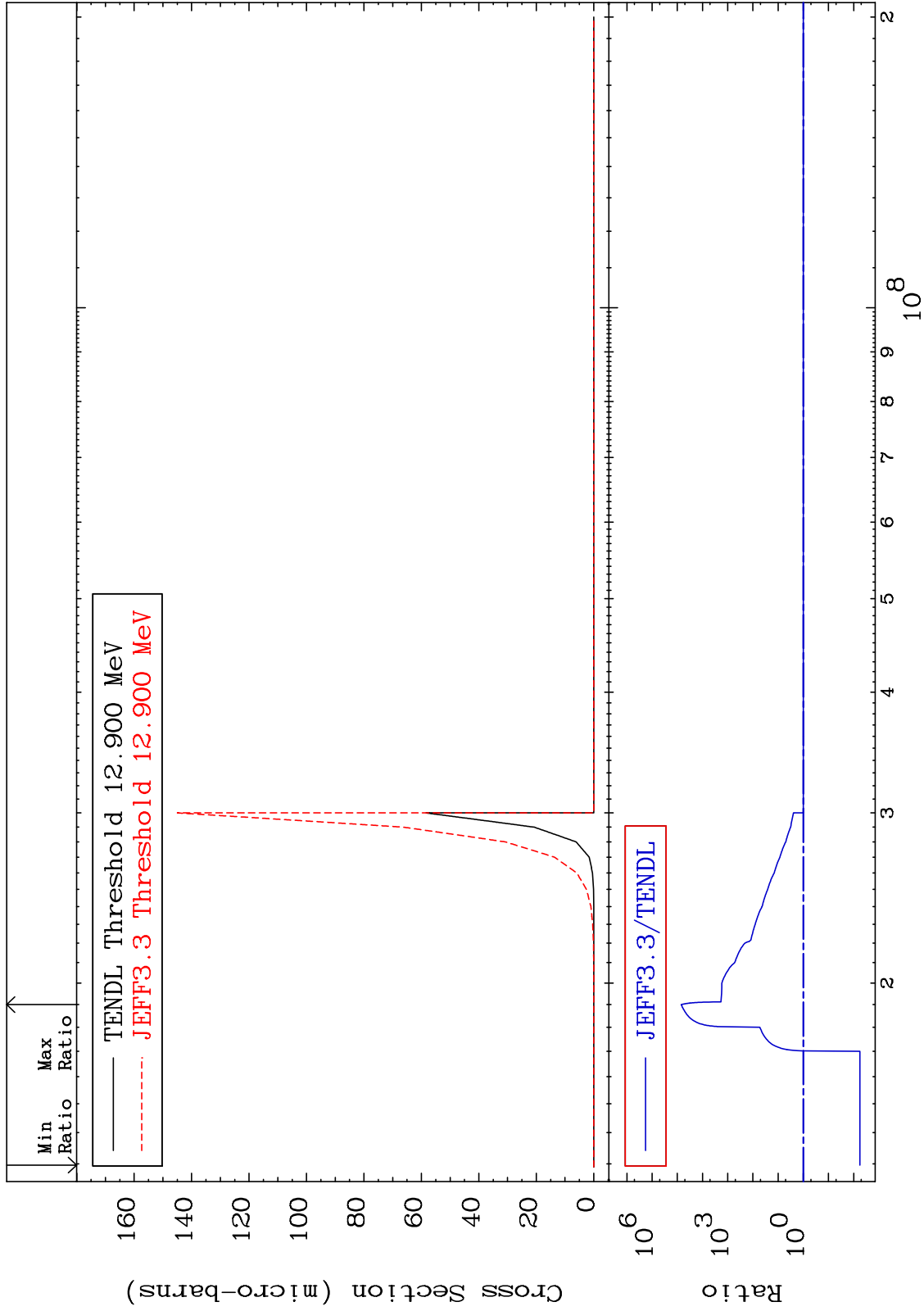
MAT 7122

(n,3n) α

71-Lu-174

Cross Section

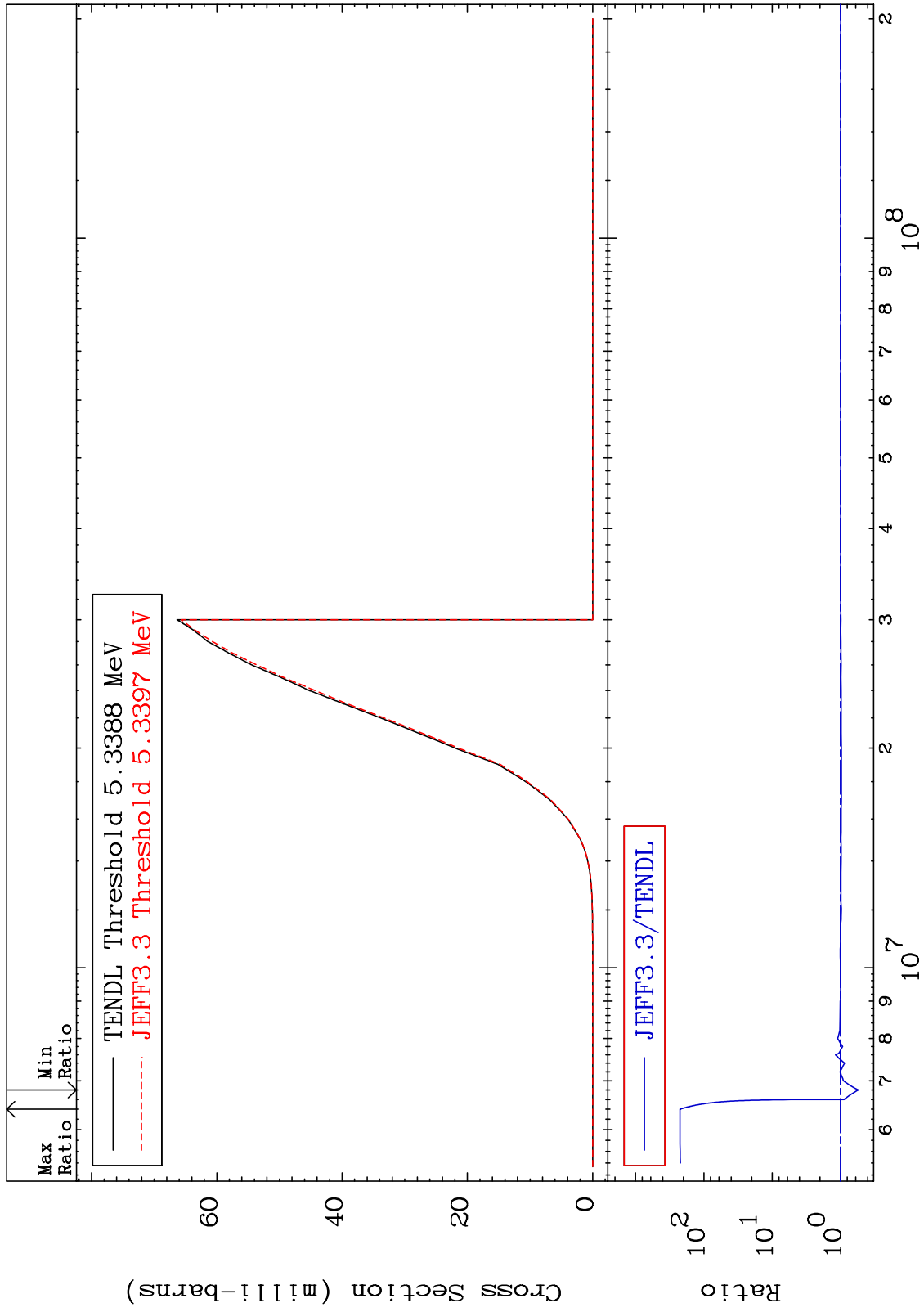
-99.43 To 9999. %



MAT 7122

(n,n') p
Cross Section

⁷¹Lu-174
-45.09 To 9999. %



10

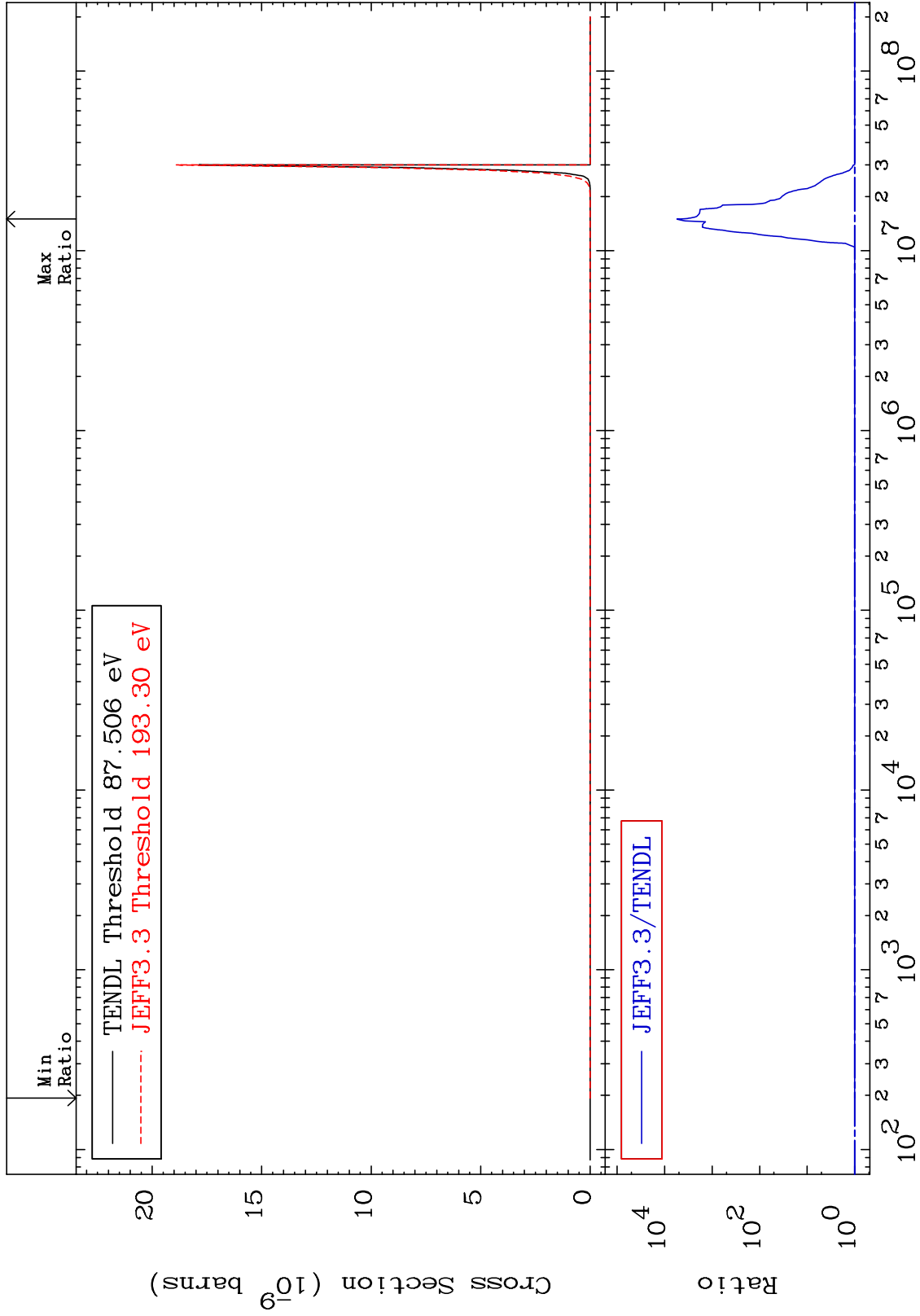
Incident Energy (eV)

⁷¹Lu-174

MAT 7122

(n,n') 2α
Cross Section

71-Lu-174
To 9999. %



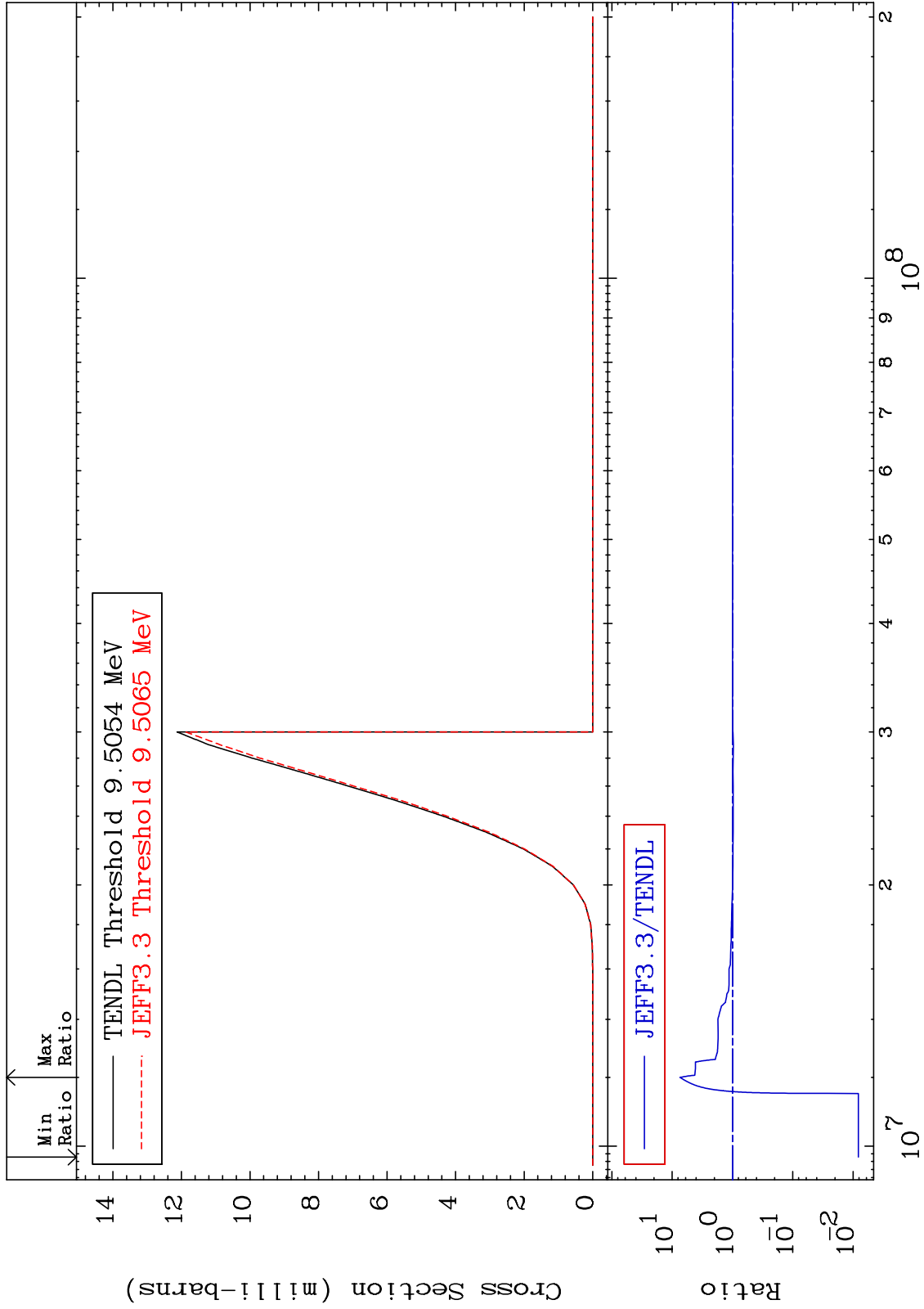
MAT 7122

(n, n') d

71-Lu-174

Cross Section

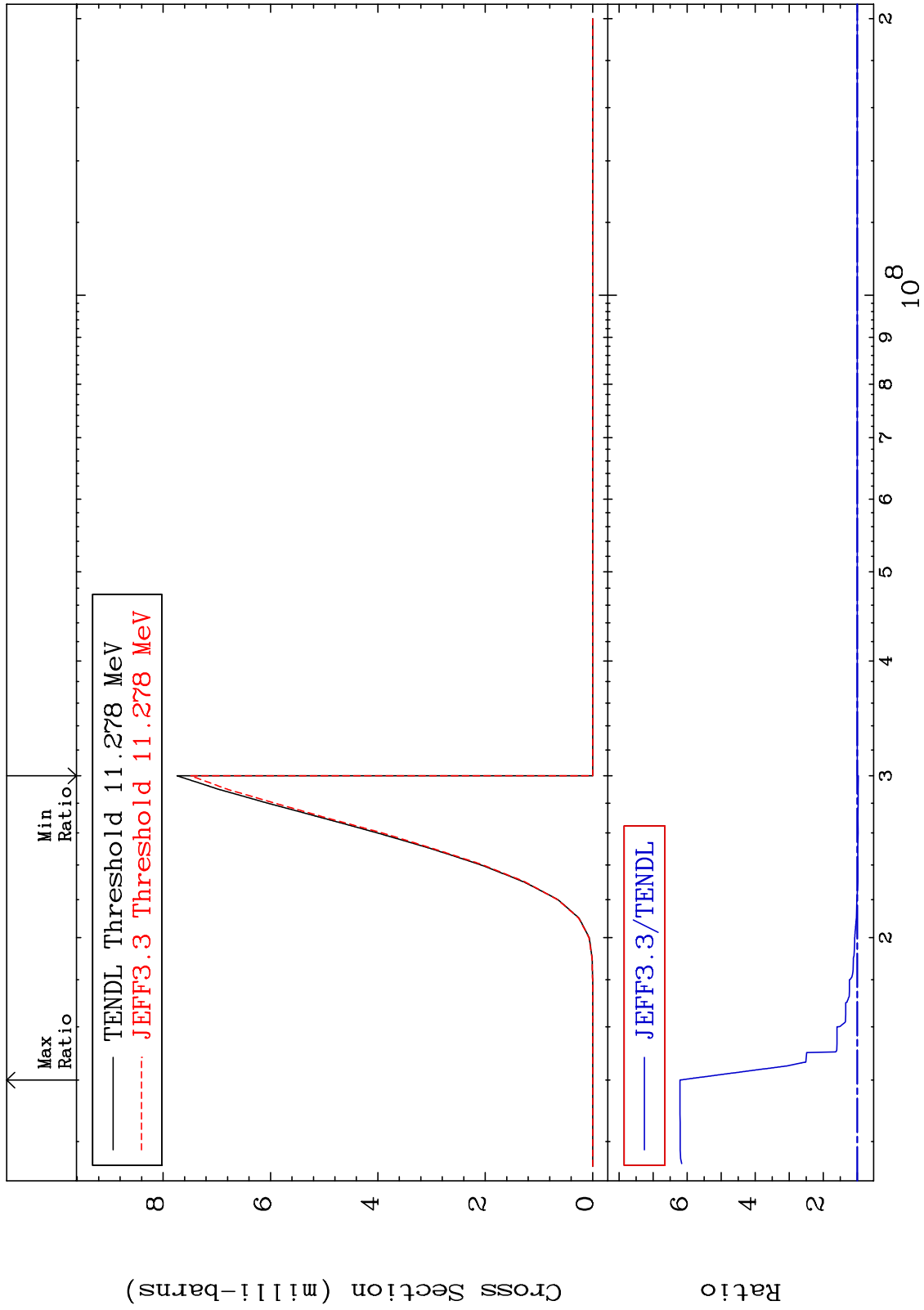
-99.18 To 641.4 %



Incident Energy (eV)

71-Lu-174

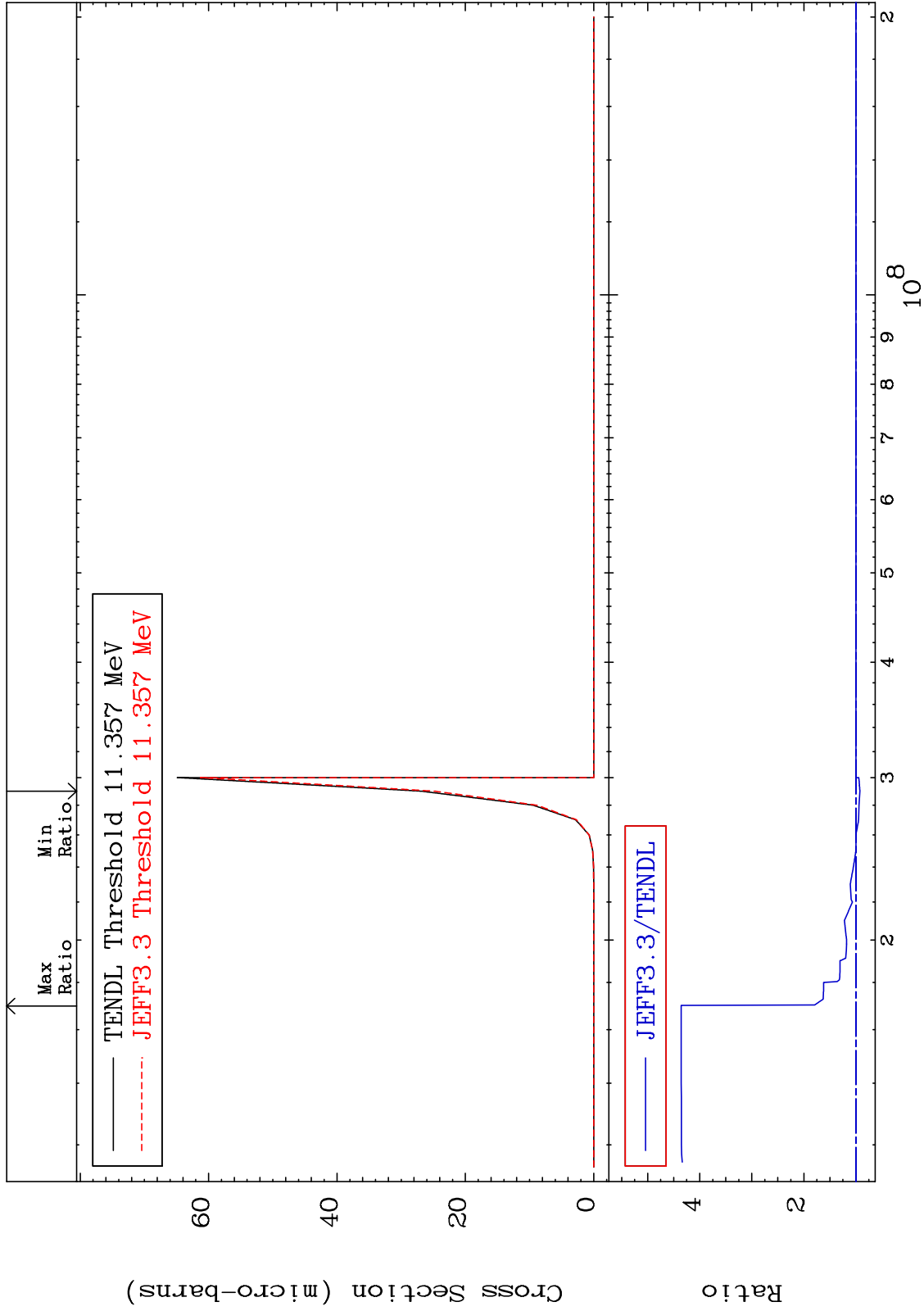
12



MAT 7122

(n, n') He-3
Cross Section

71-Lu-174
-7.735 To 335.5 %



MAT 7122

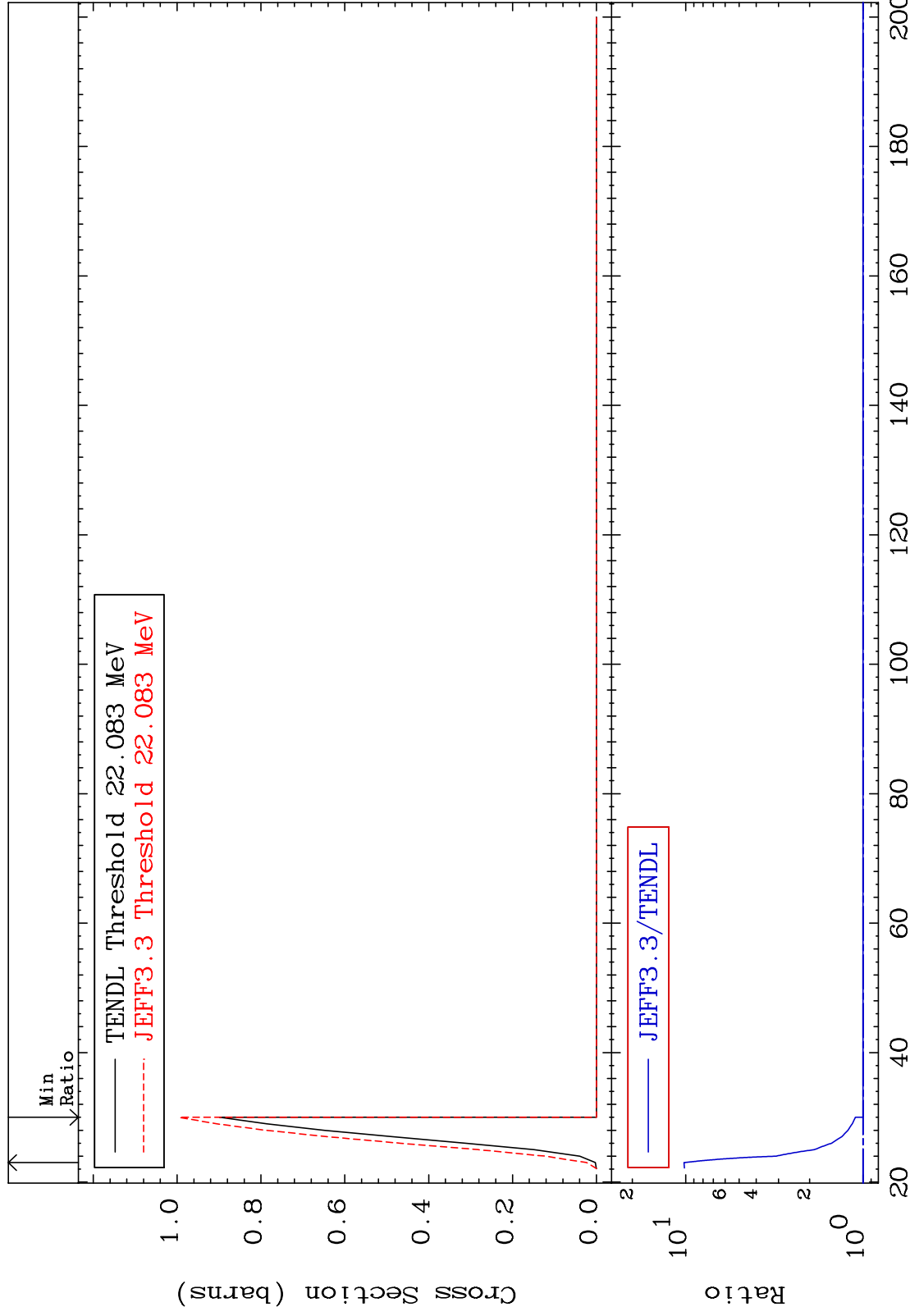
(n, 4n)

⁷¹Lu-174

Cross Section

0.000

To 922.2 %



15

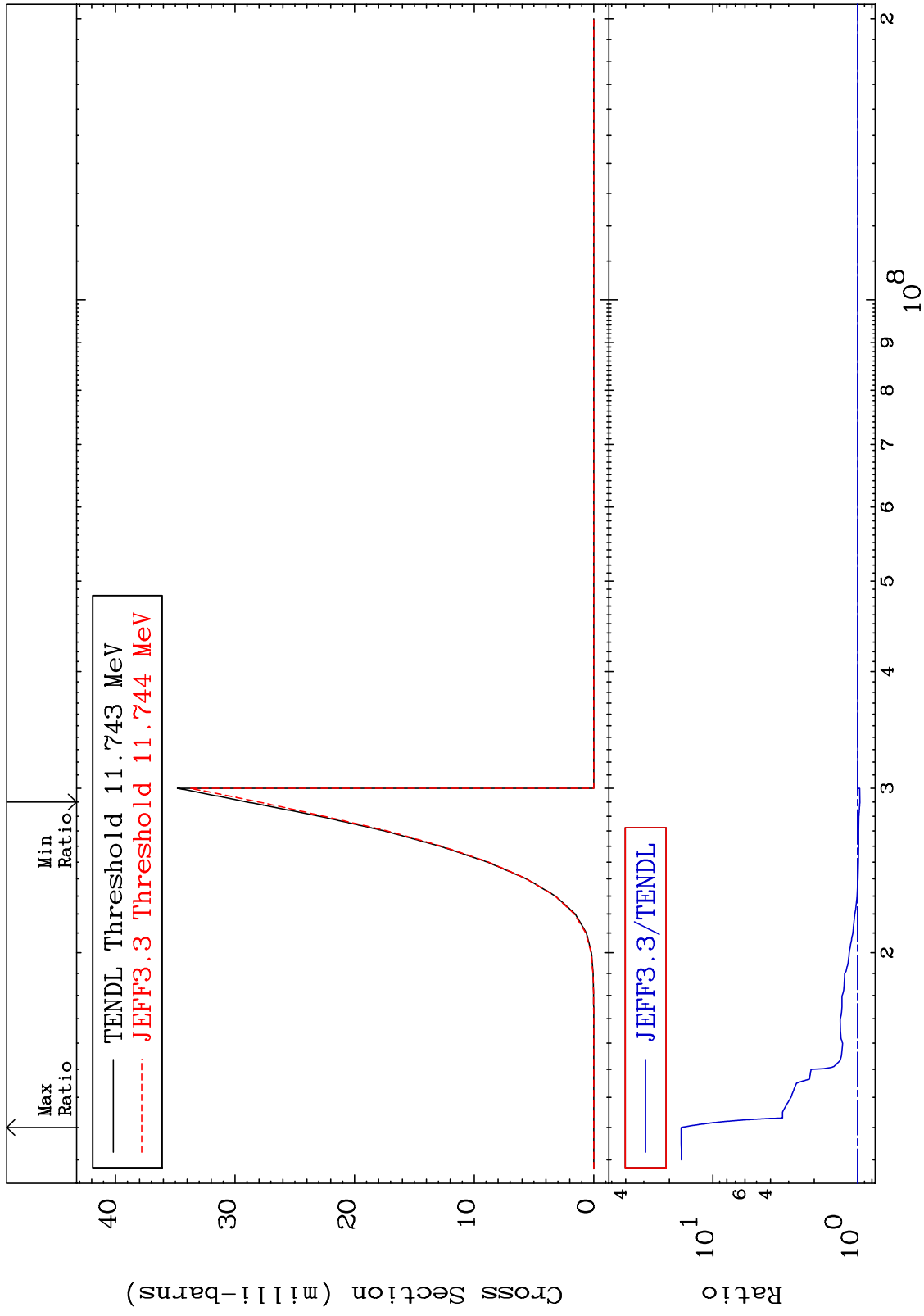
Incident Energy (MeV)

⁷¹Lu-174

MAT 7122

(n,2n) p
Cross Section

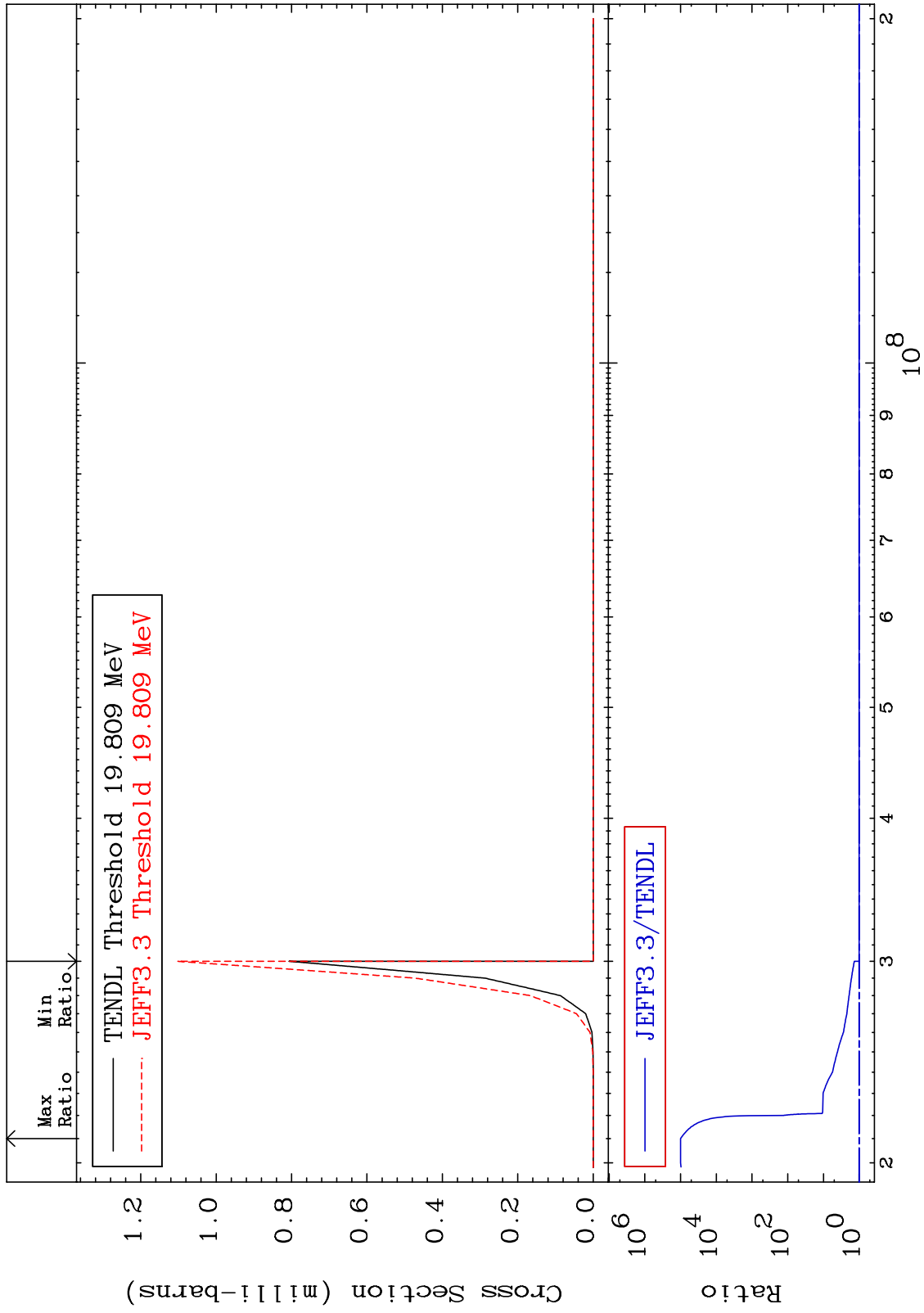
⁷¹-Lu-174
-3.390 To 1554. %



MAT 7122

(n,3n) p
Cross Section

71-Lu-174
0.000 To 9999. %



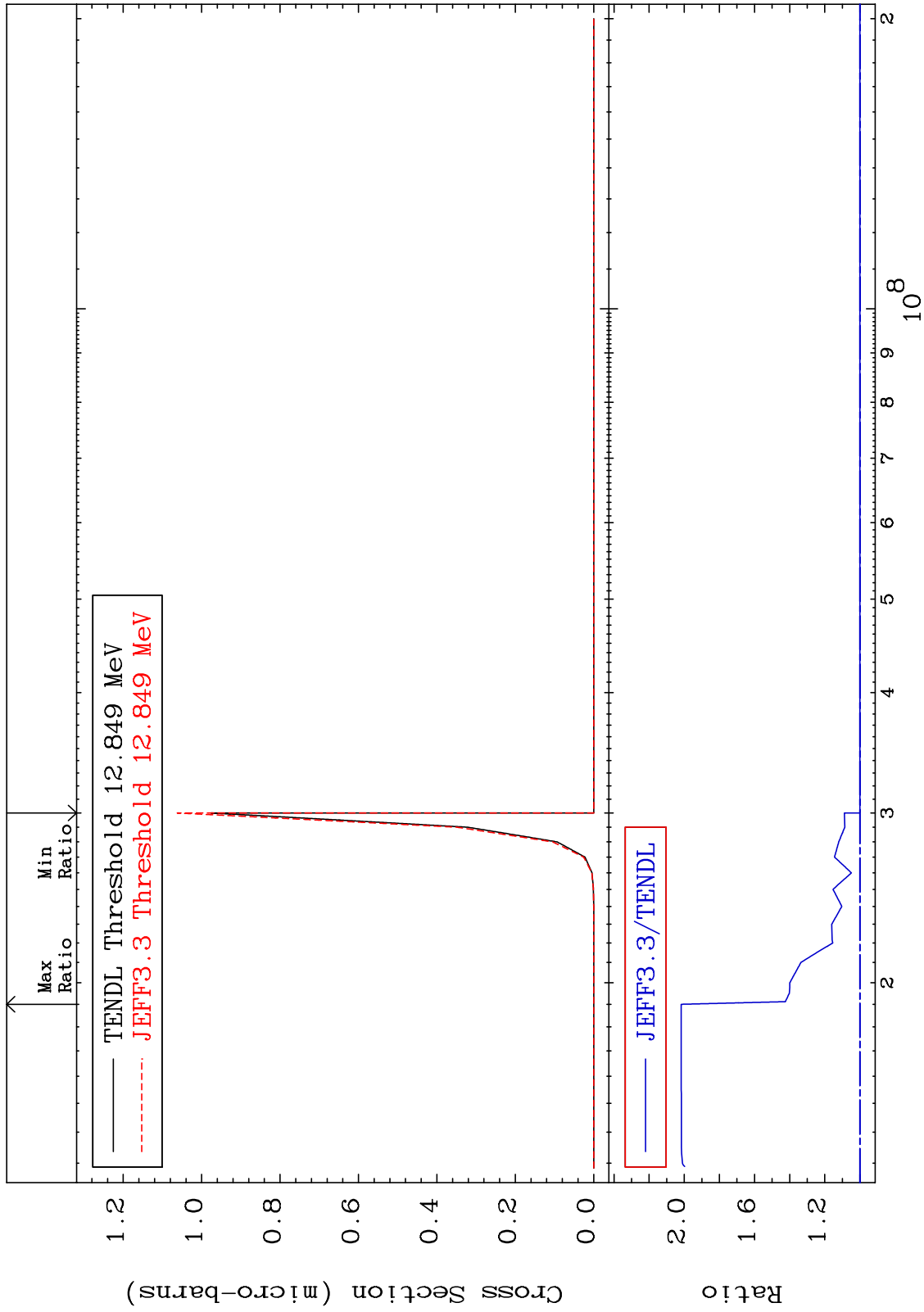
71-Lu-174

Incident Energy (eV)

MAT 7122

(n,2n) p
Cross Section

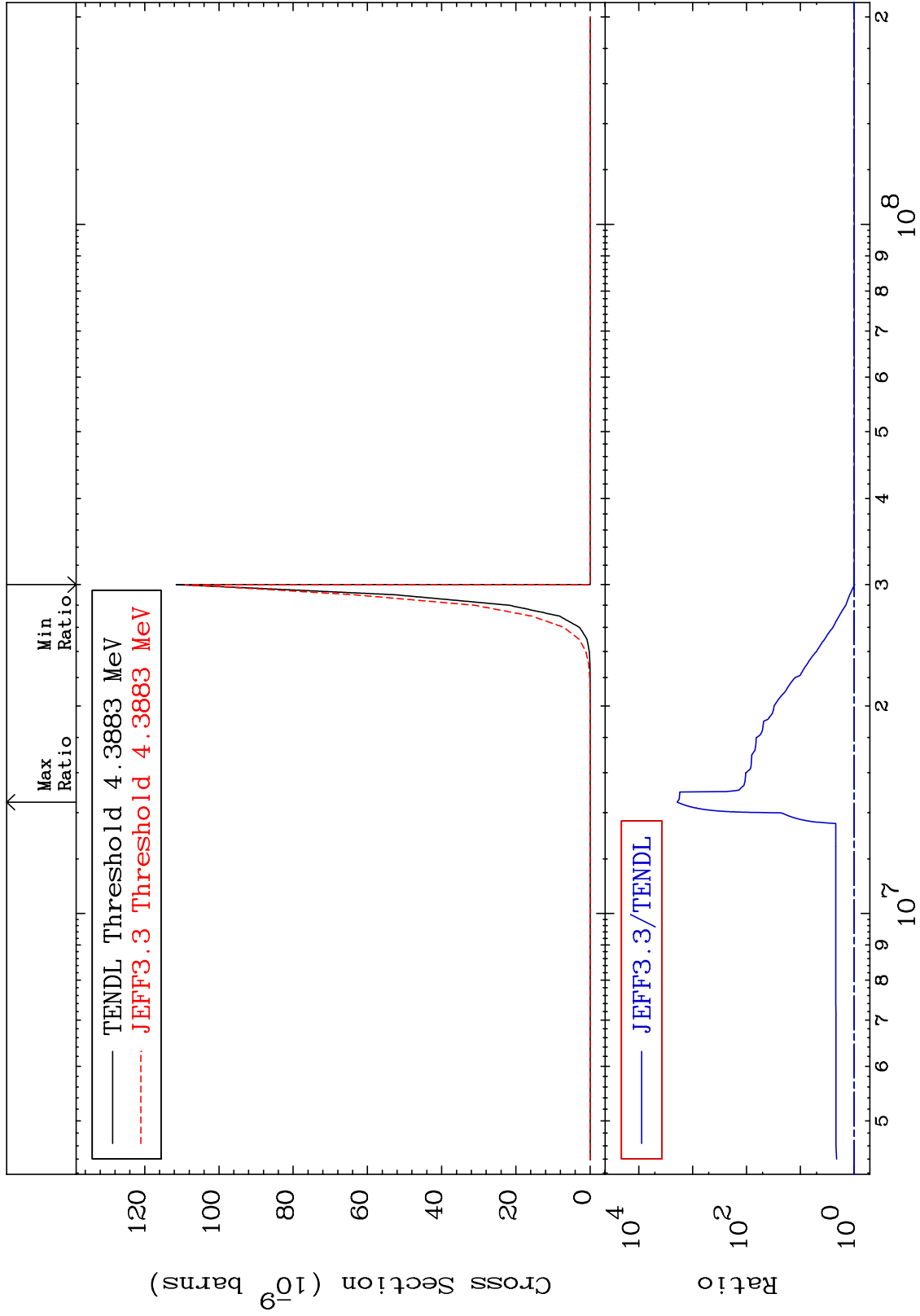
71-Lu-174
0.000 To 101.7 %



MAT 7122

(n, n') p α
Cross Section

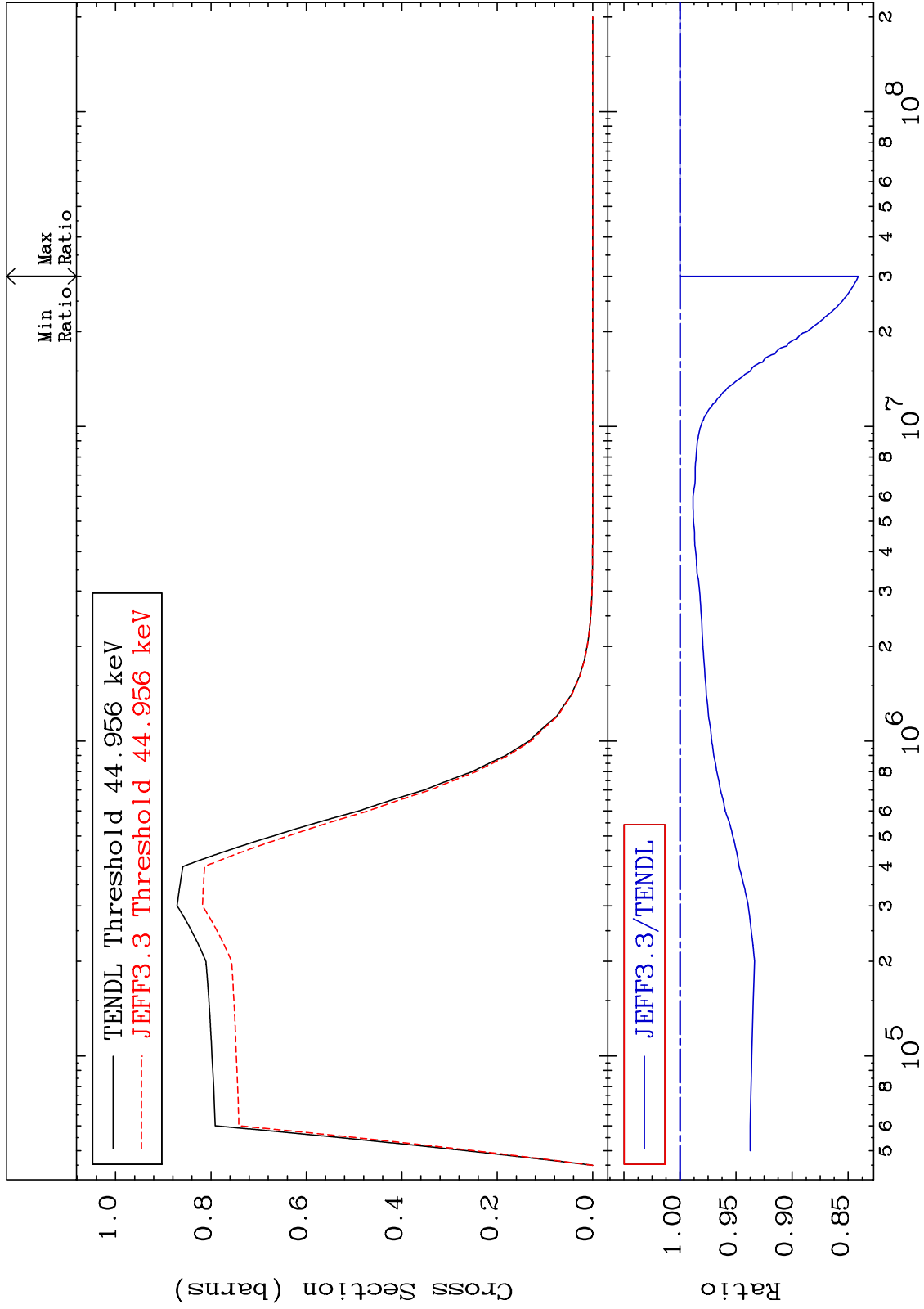
71-Lu-174
-2.109 To 9999. %

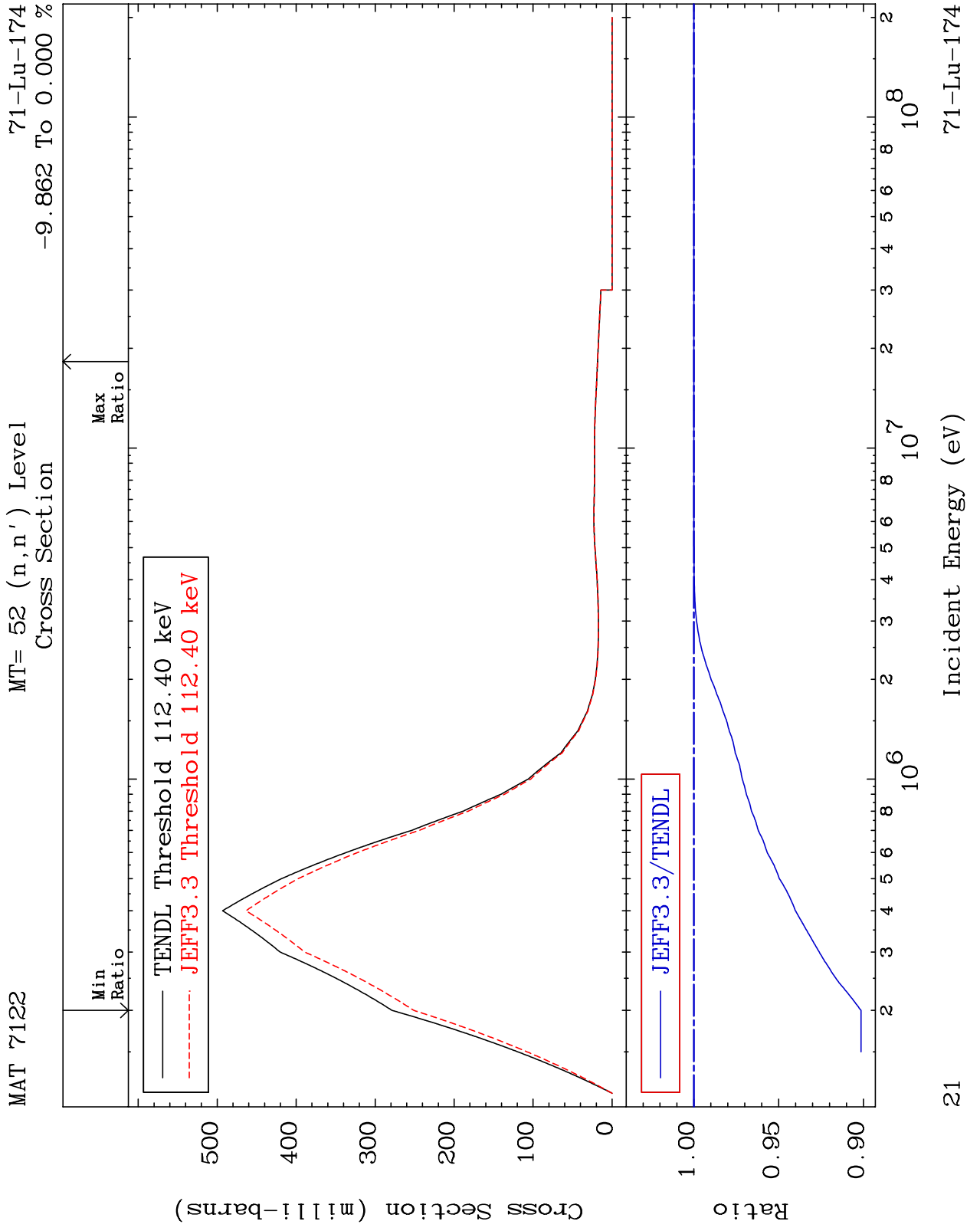


MAT 7122

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

71-Lu-174
-15.91 To 0.000 %

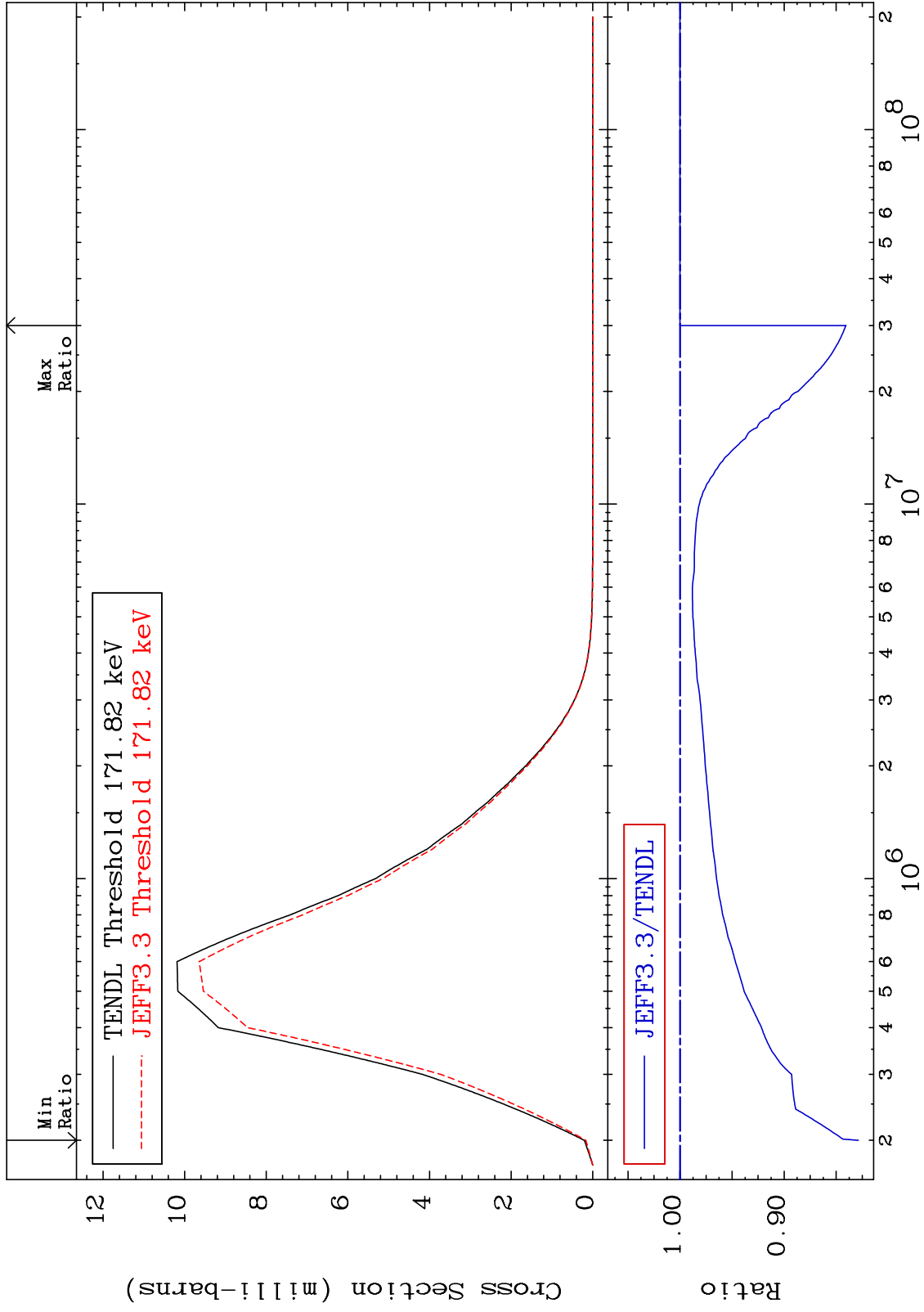




MAT 7122

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

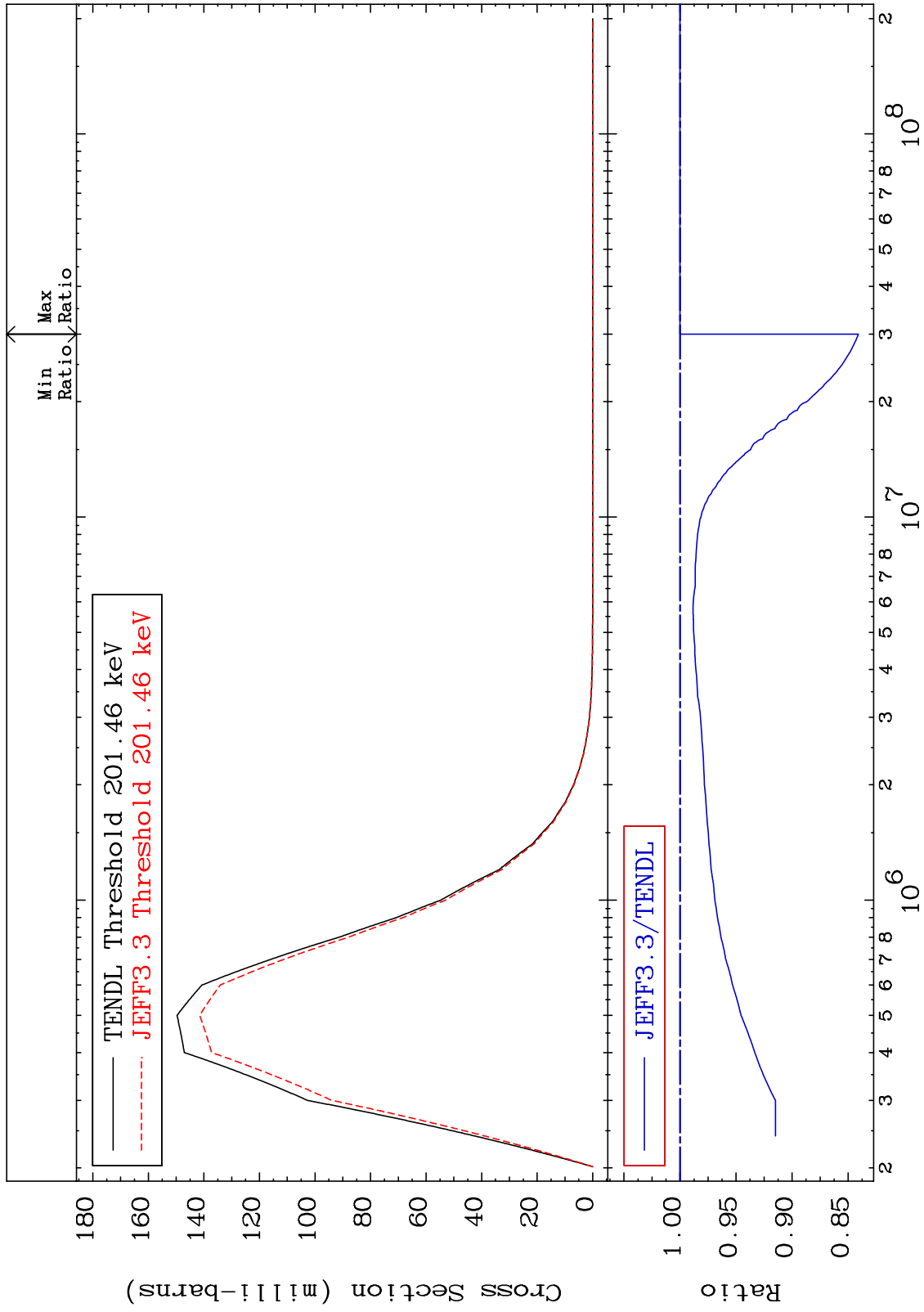
71-Lu-174
-17.13 To 0.000 %



MAT 7122

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

71-Lu-174
-15.92 To 0.000 %



Incident Energy (eV)

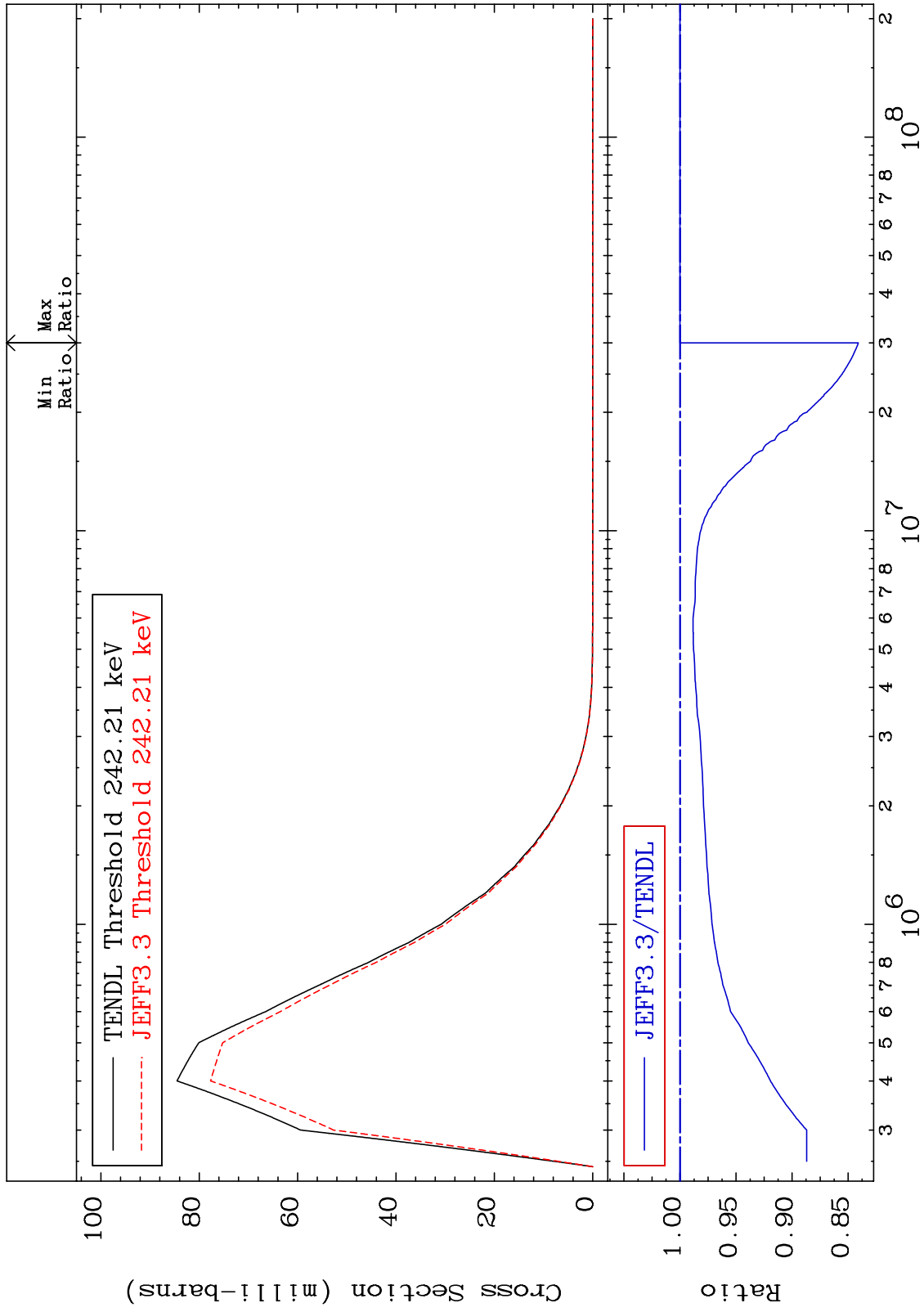
71-Lu-174

23

MAT 7122

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

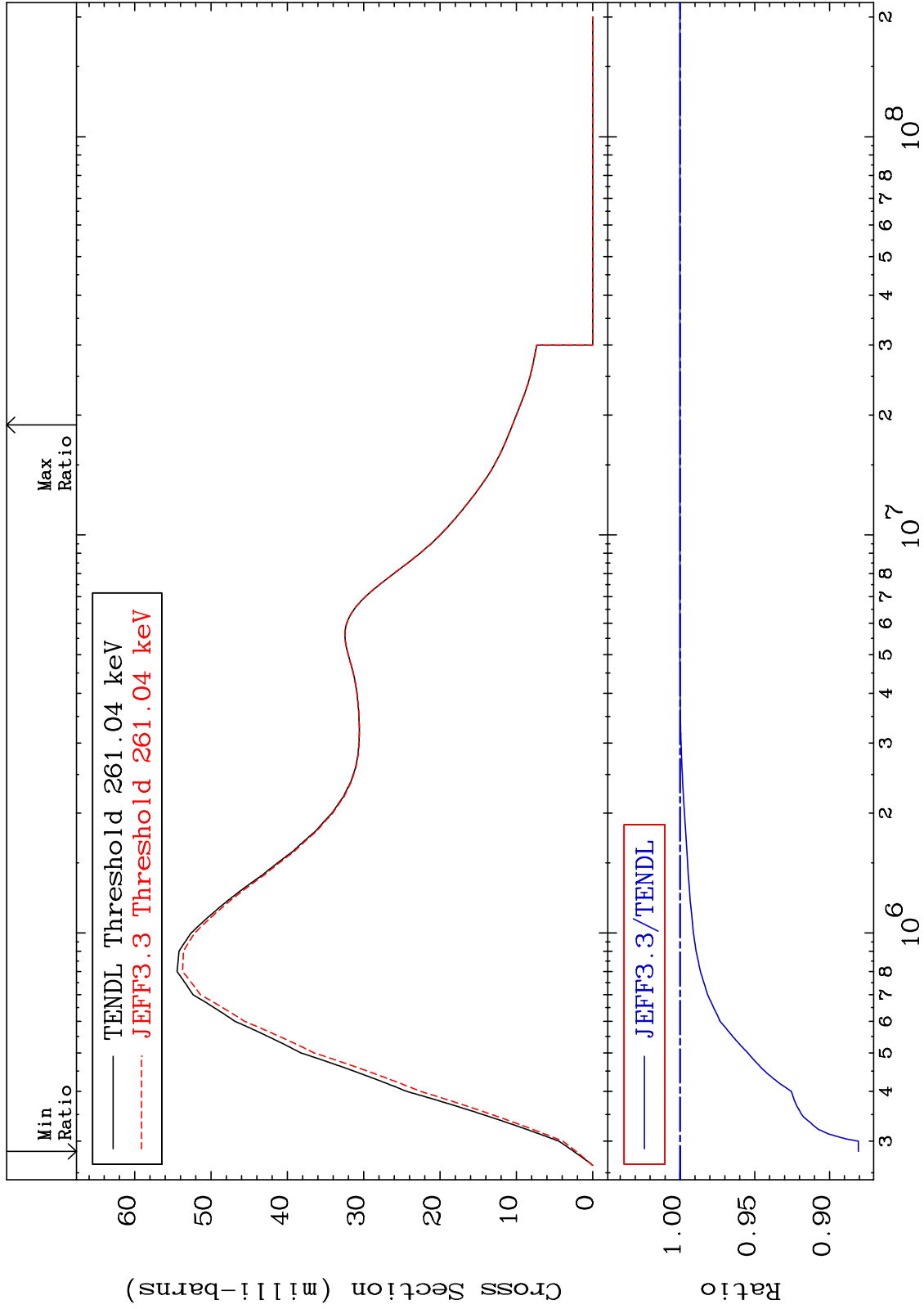
71-Lu-174
-15.91 To 0.000 %



MAT 7122

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

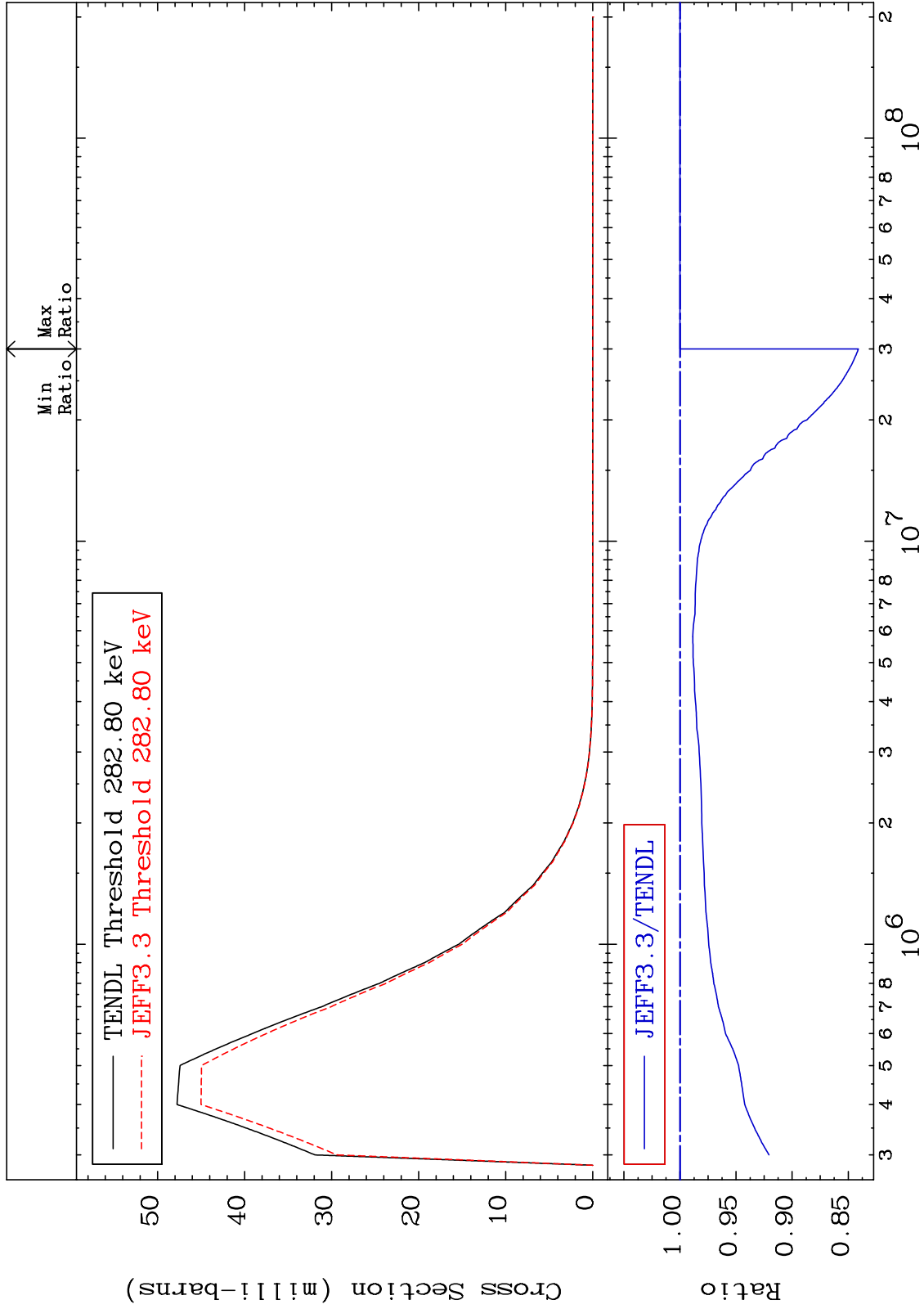
71-Lu-174
-11.94 To 0.000 %



MAT 7122

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

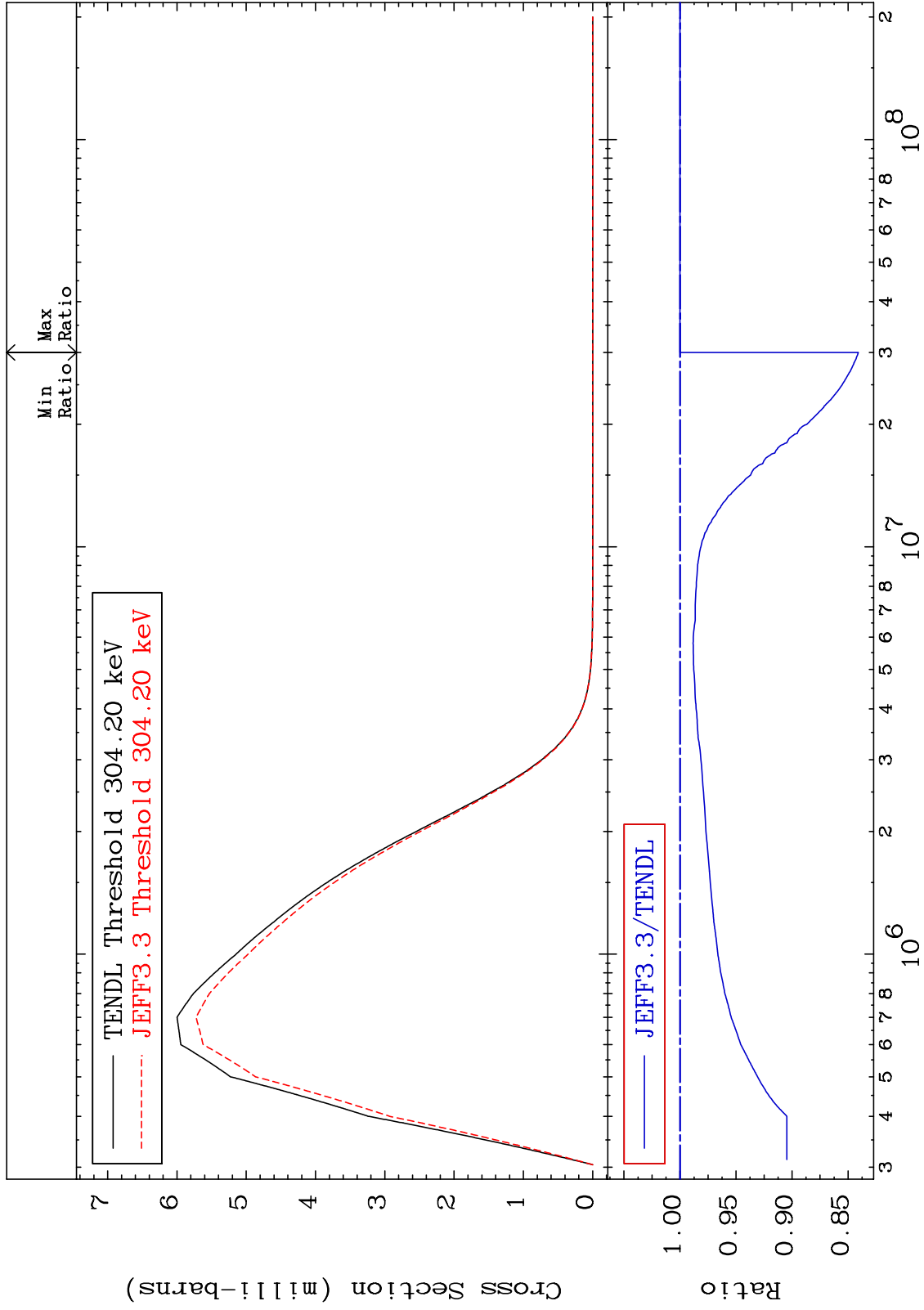
71-Lu-174
-15.91 To 0.000 %



MAT 7122

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

71-Lu-174
-15.92 To 0.000 %

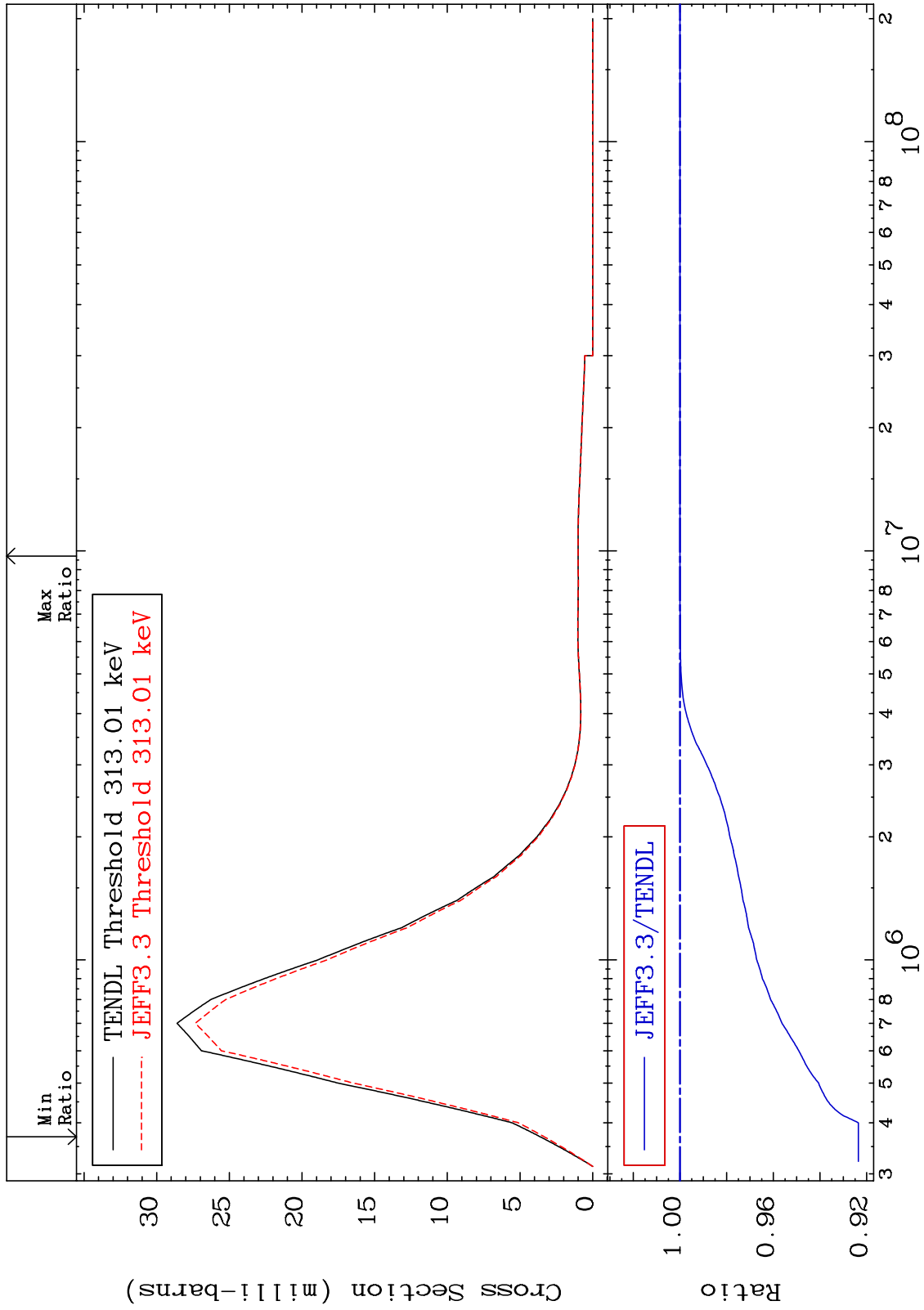


27

Incident Energy (eV)

71-Lu-174

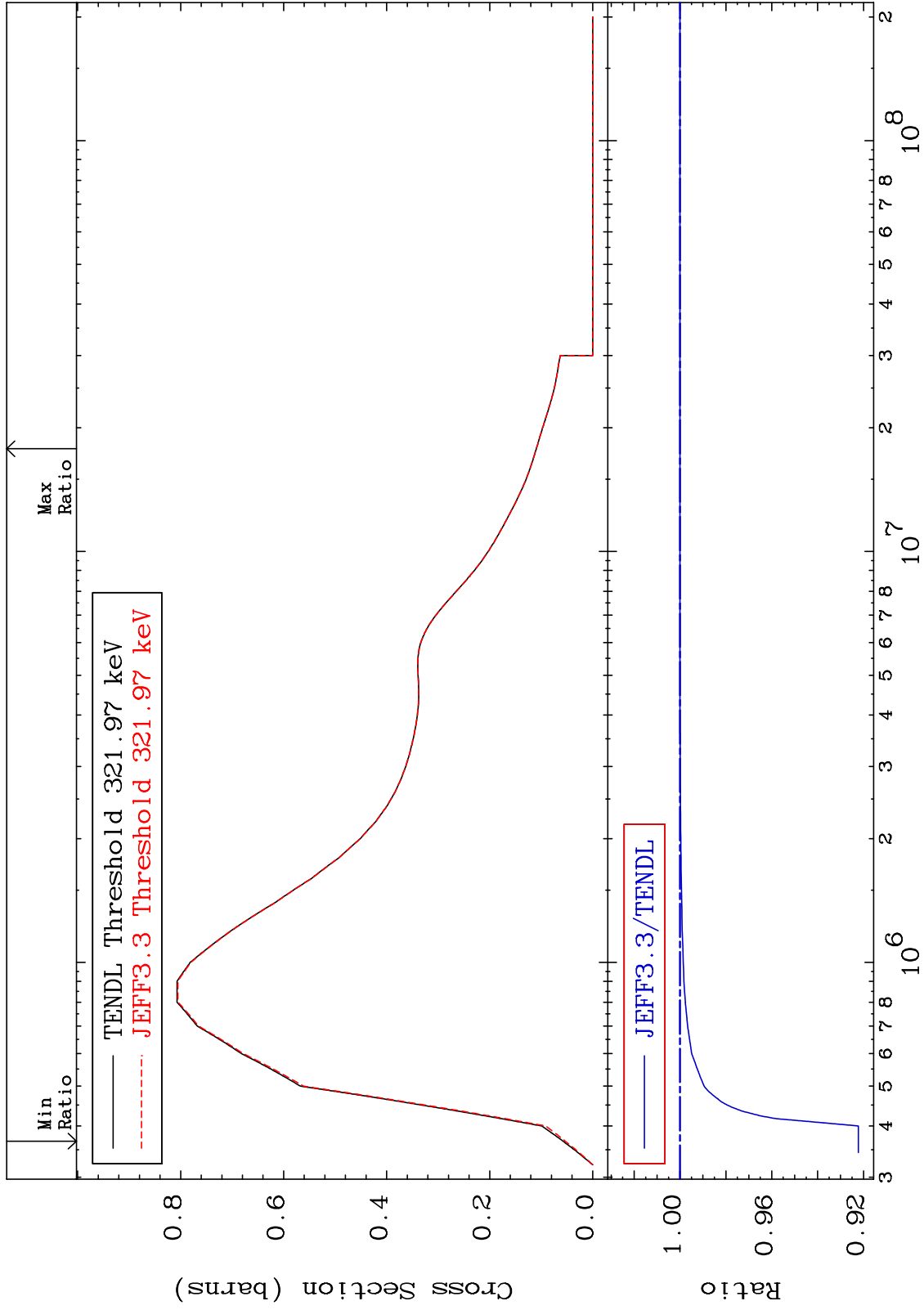
MAT 7122 MT= 59 (n, n') Level Cross Section 71-Lu-174 -7.645 To 0.000 %



MAT 7122

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

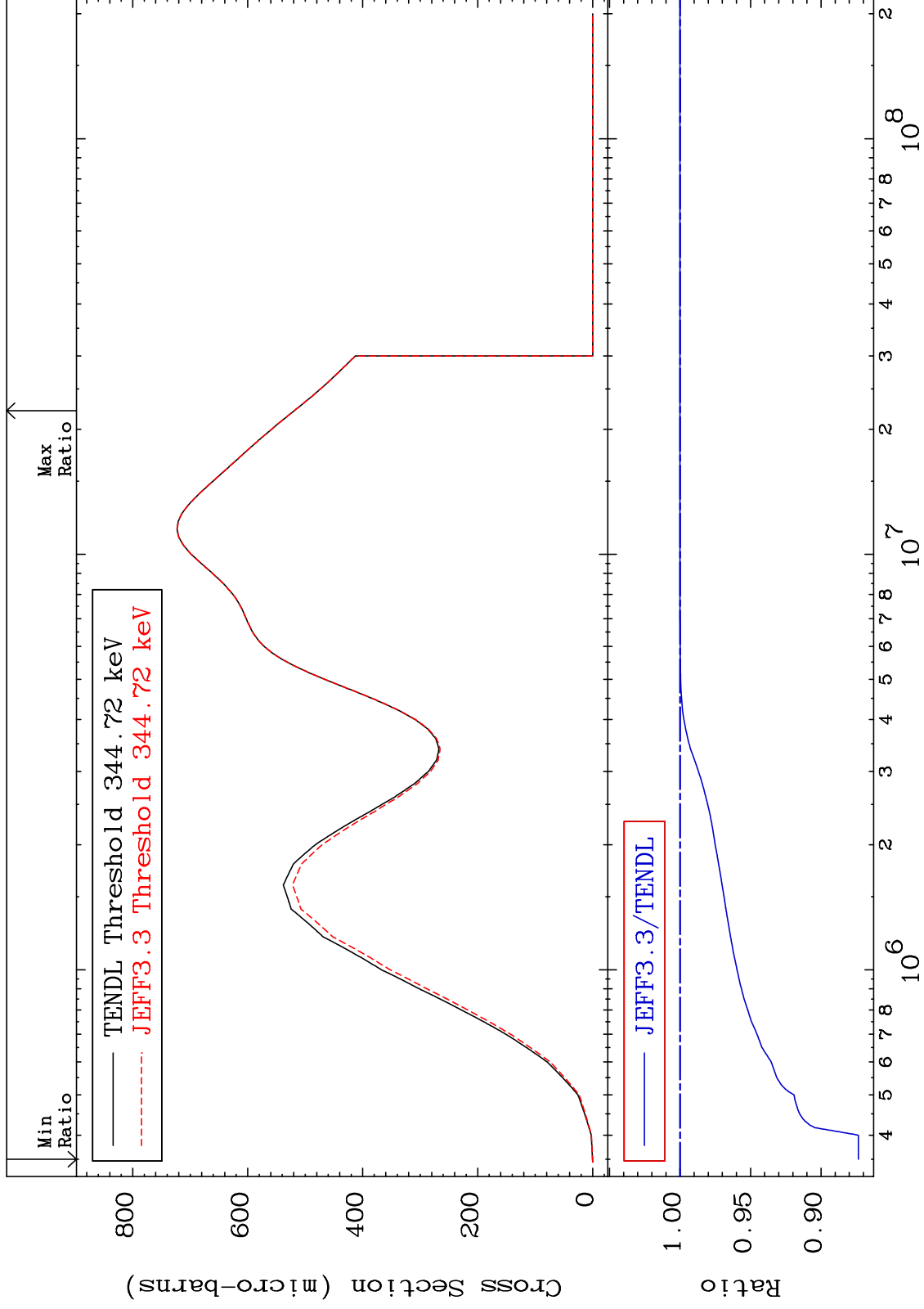
71-Lu-174
-7.778 To 0.000 %



MAT 7122

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

71-Lu-174
-12.65 To 0.000 %



30

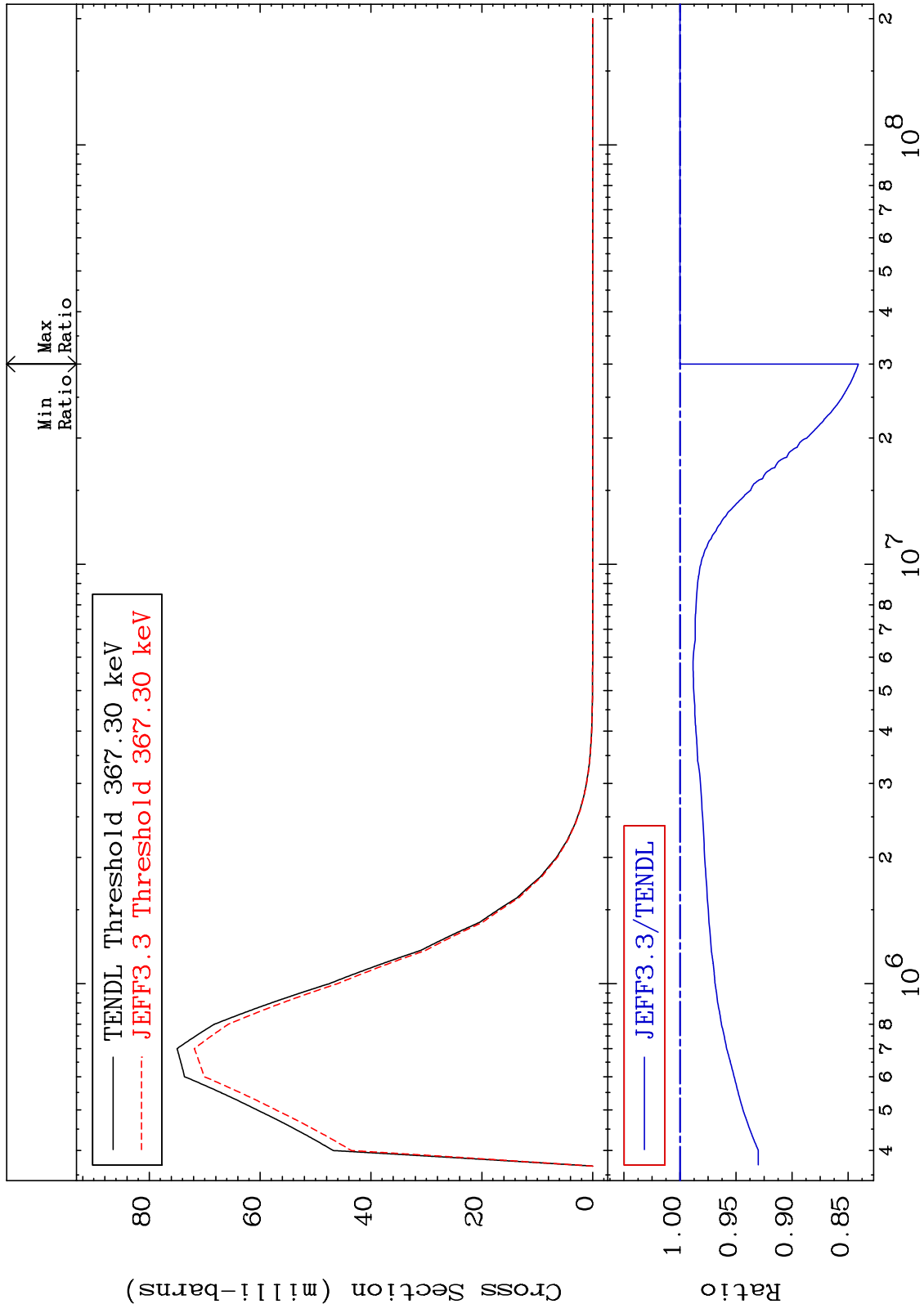
Incident Energy (eV)

71-Lu-174

MAT 7122

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

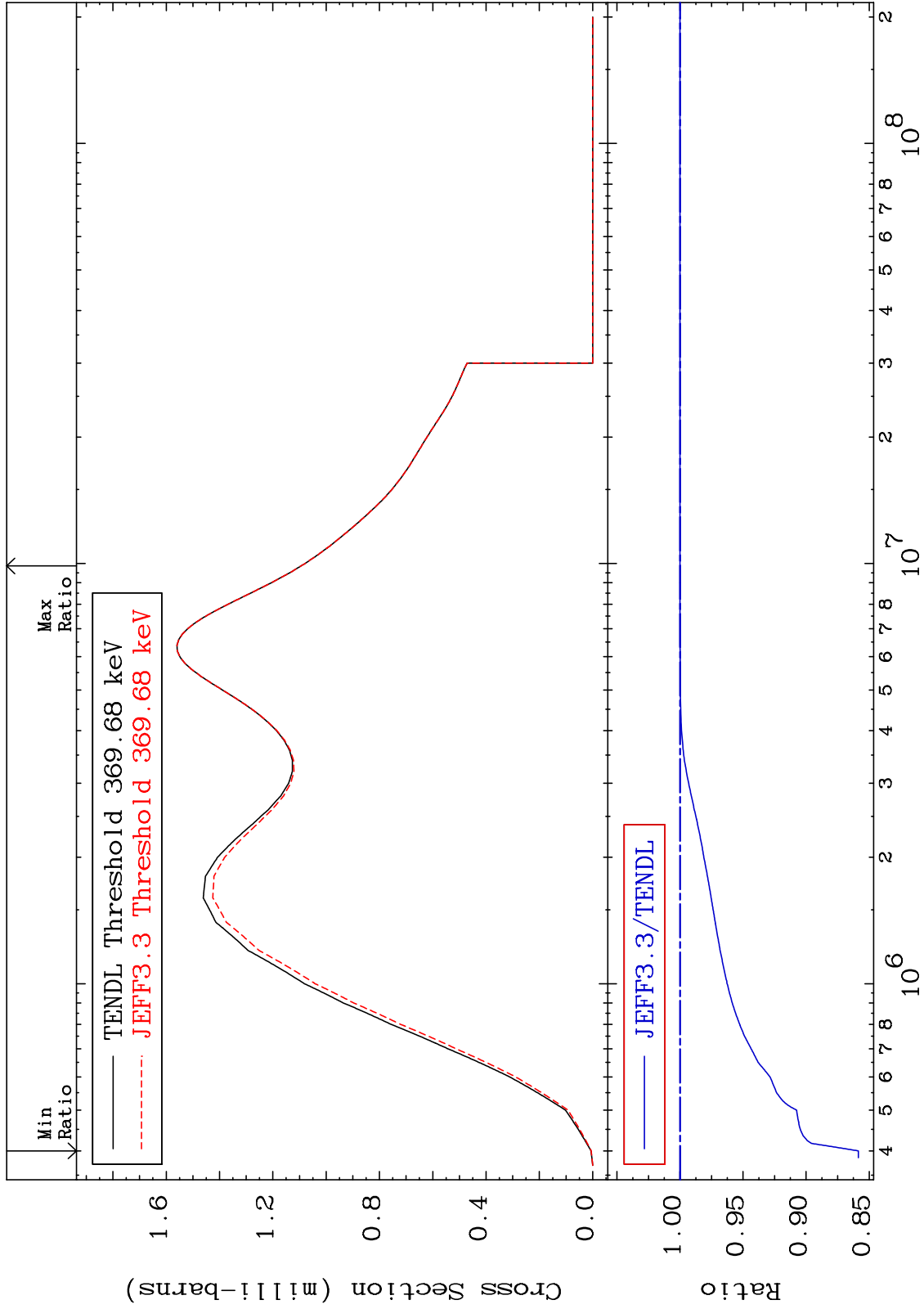
71-Lu-174
-15.92 To 0.000 %



MAT 7122

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

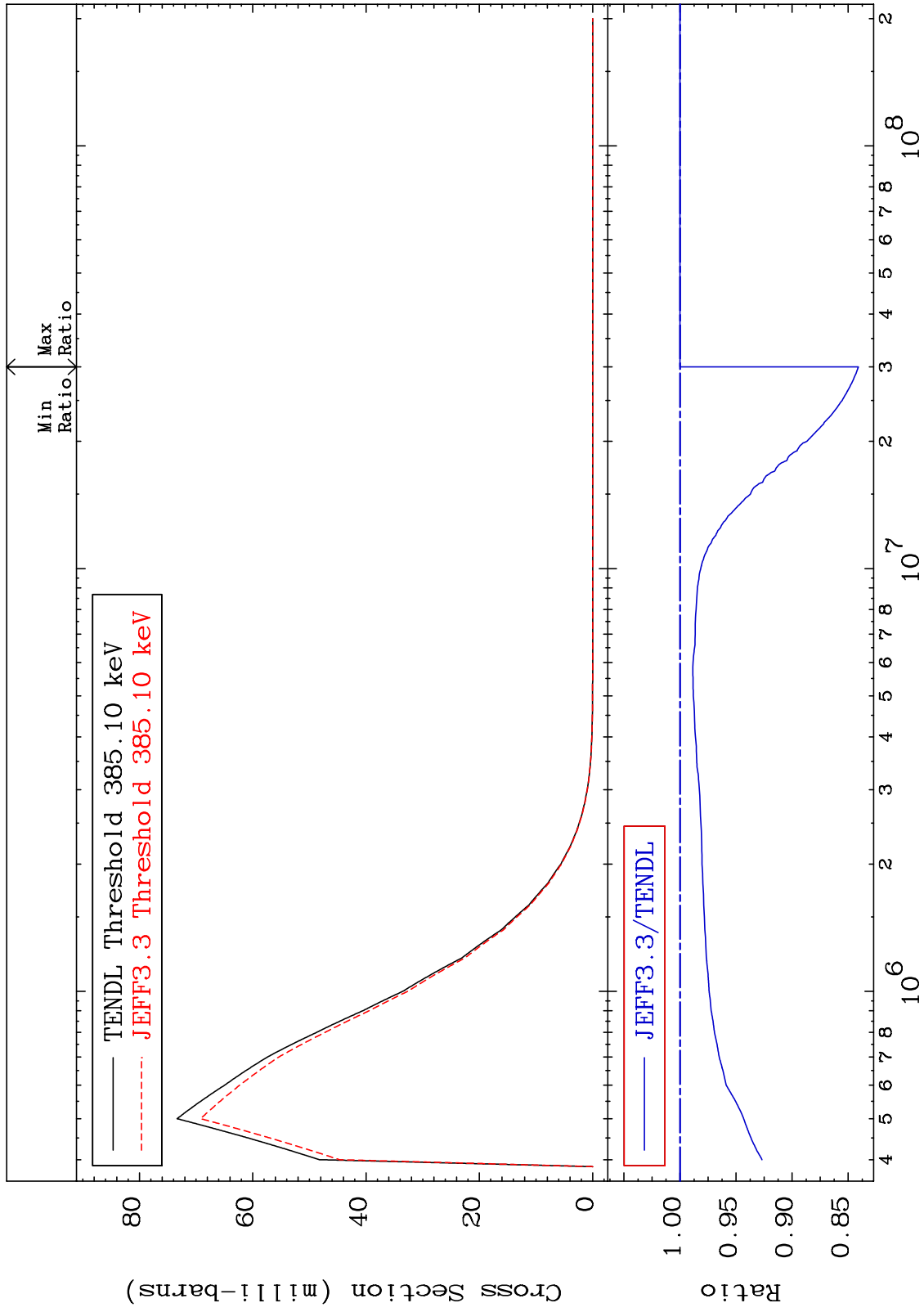
71-Lu-174
-14.15 To 0.000 %



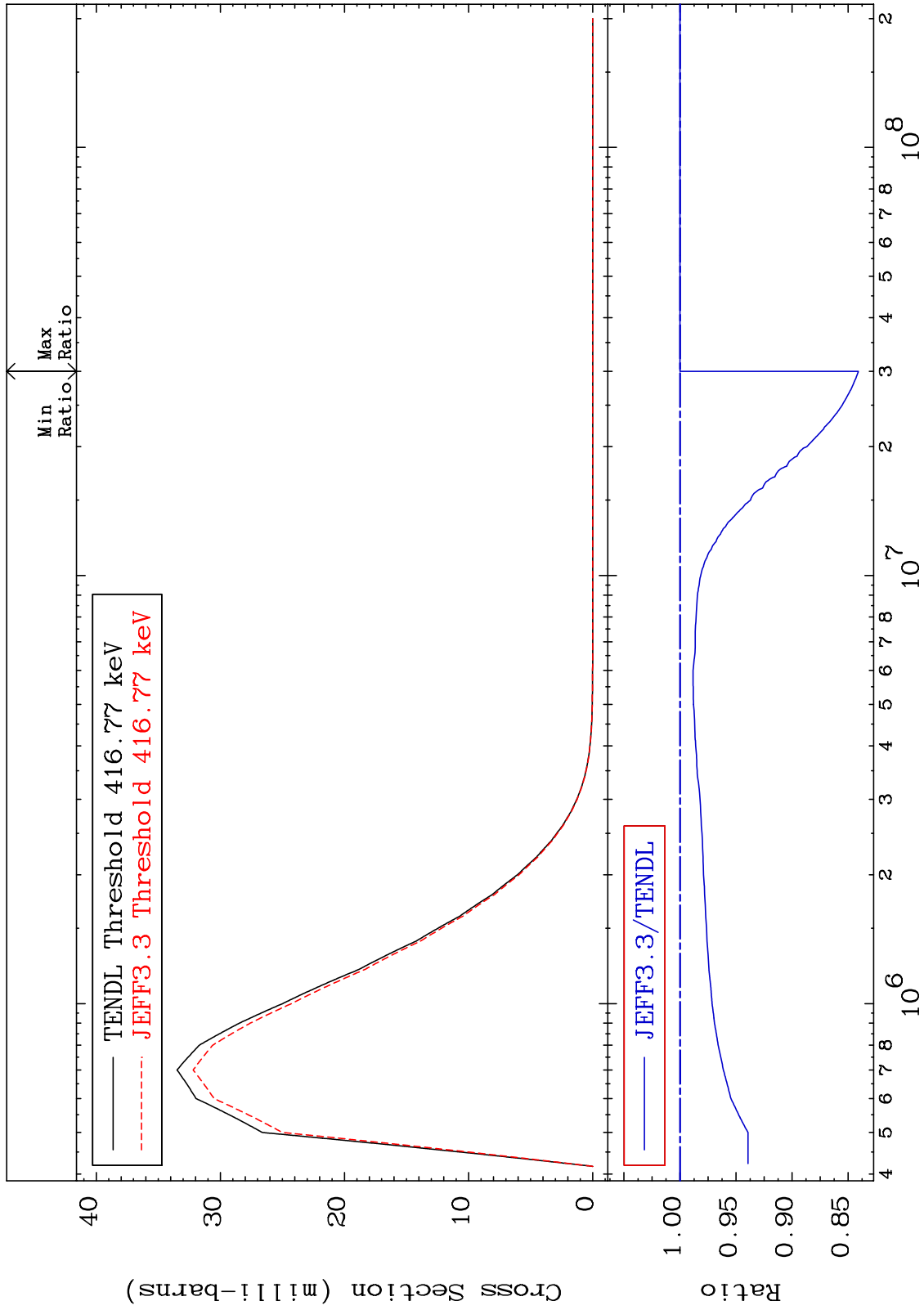
MAT 7122

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

71-Lu-174
-15.91 To 0.000 %



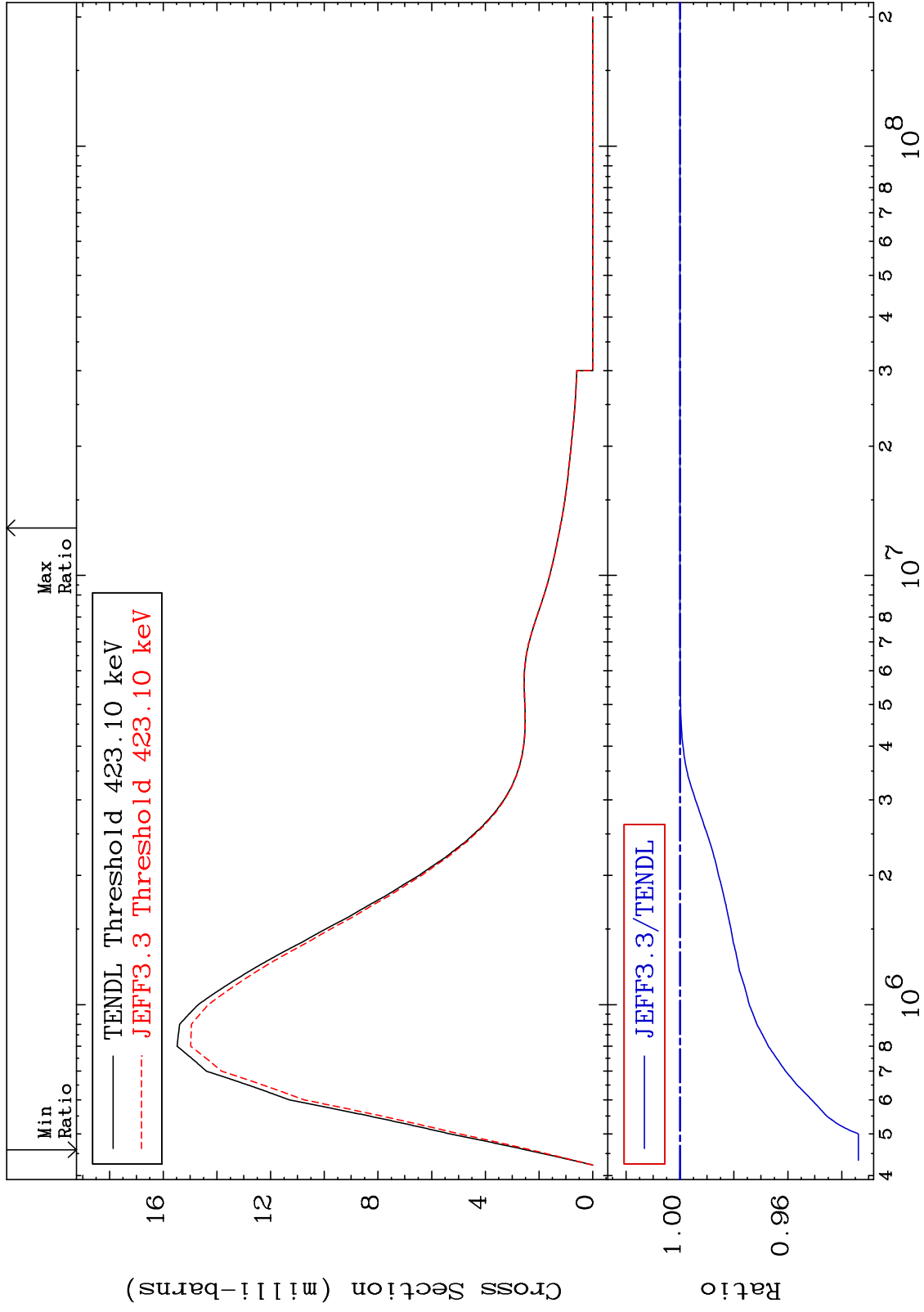
MAT 7122 MT= 65 (n,n') Level 71-Lu-174
 Cross Section -15.91 To 0.000 %



MAT 7122

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

71-Lu-174
-6.618 To 0.000 %



35

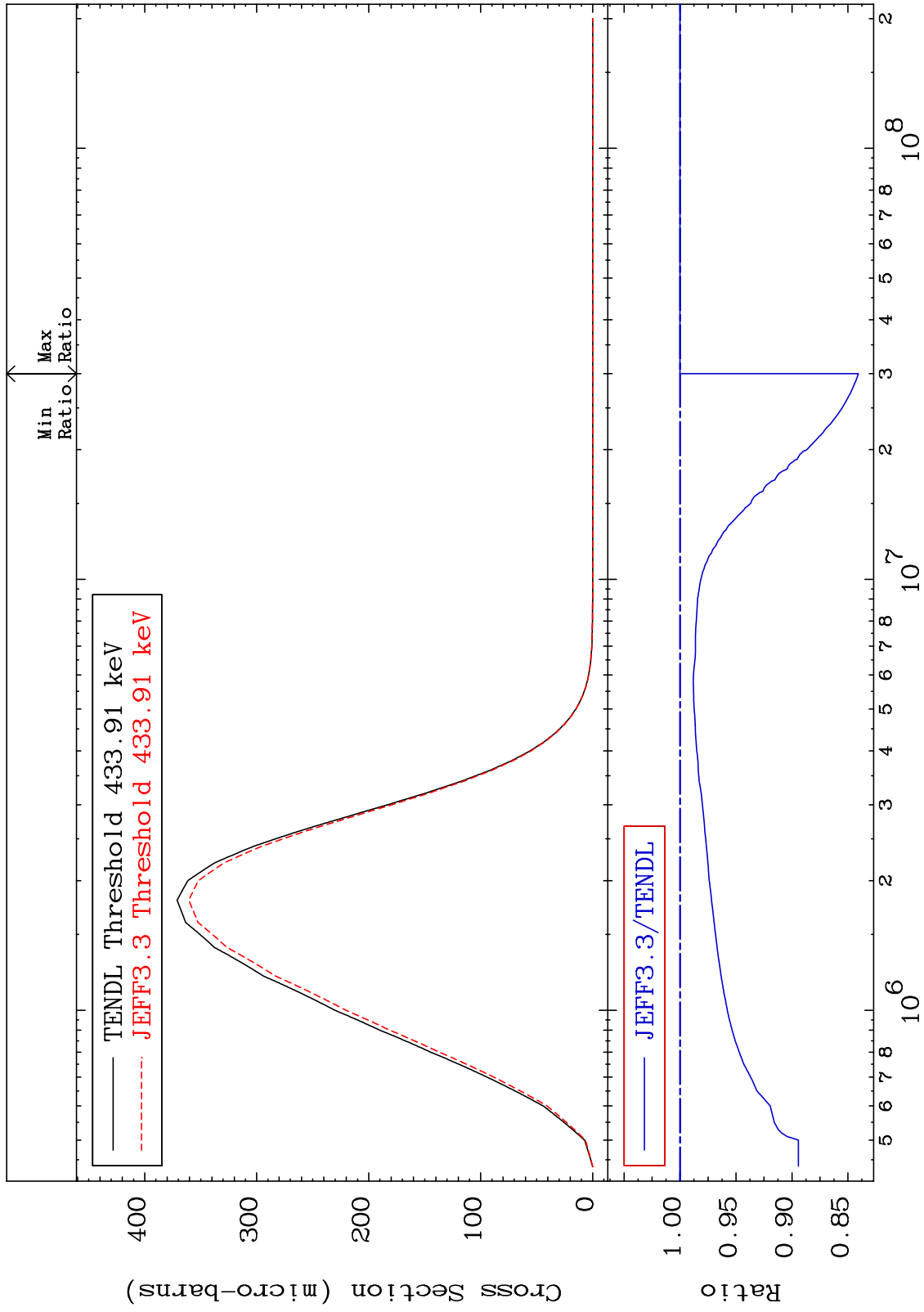
Incident Energy (eV)

71-Lu-174

MAT 7122

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

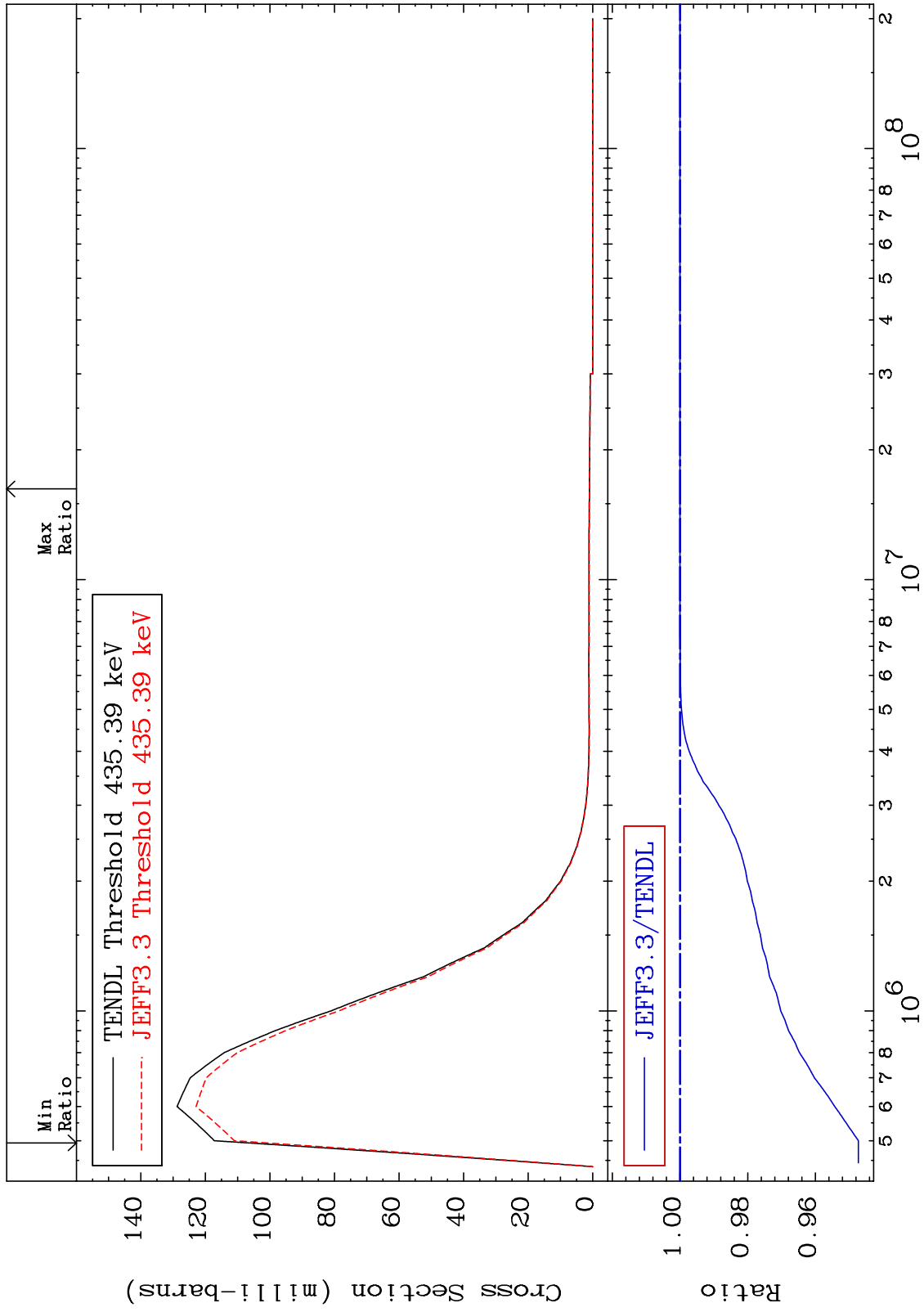
71-Lu-174
-15.93 To 0.000 %



MAT 7122

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

71-Lu-174
-5.270 To 0.000 %



37

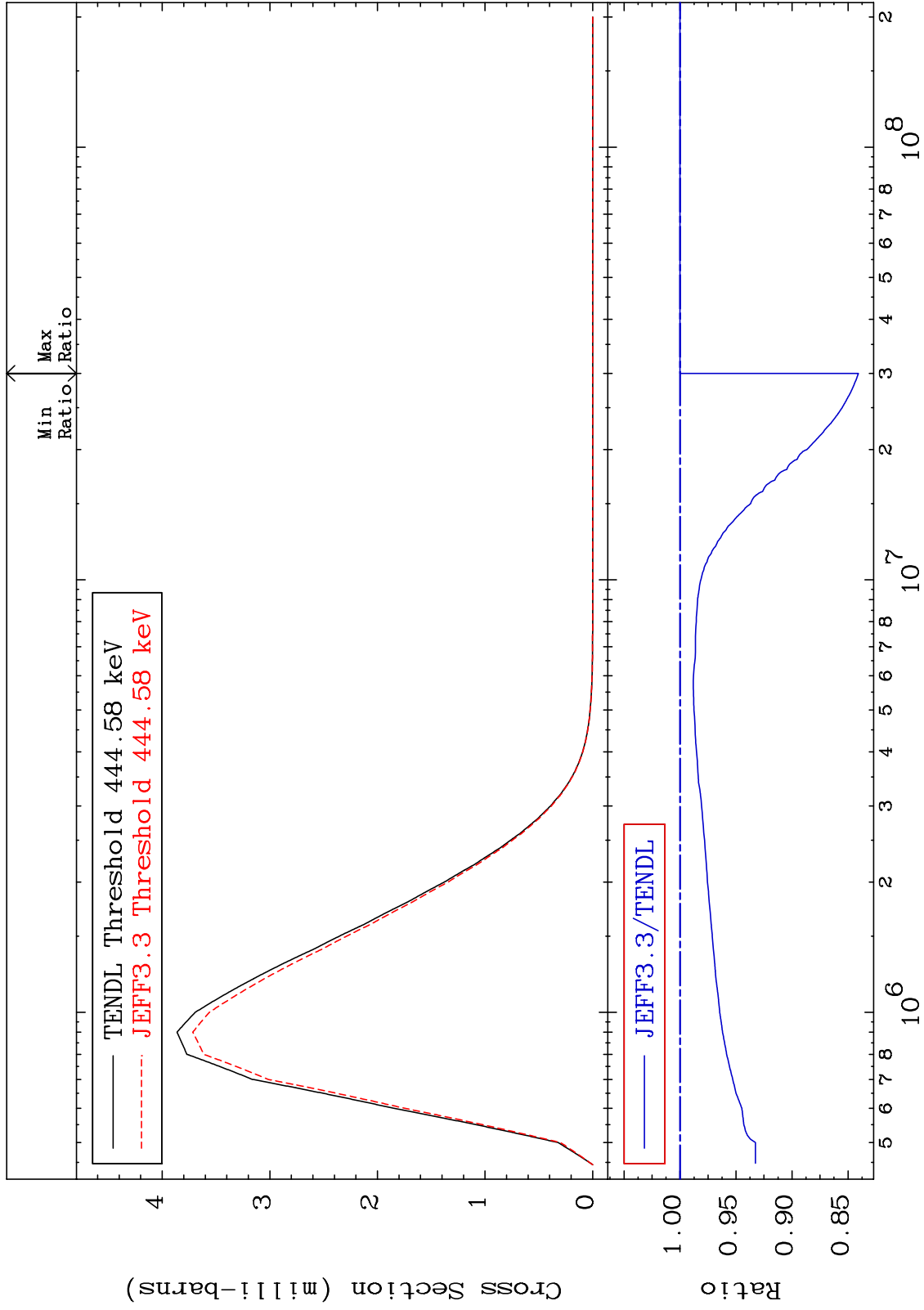
Incident Energy (eV)

71-Lu-174

MAT 7122

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

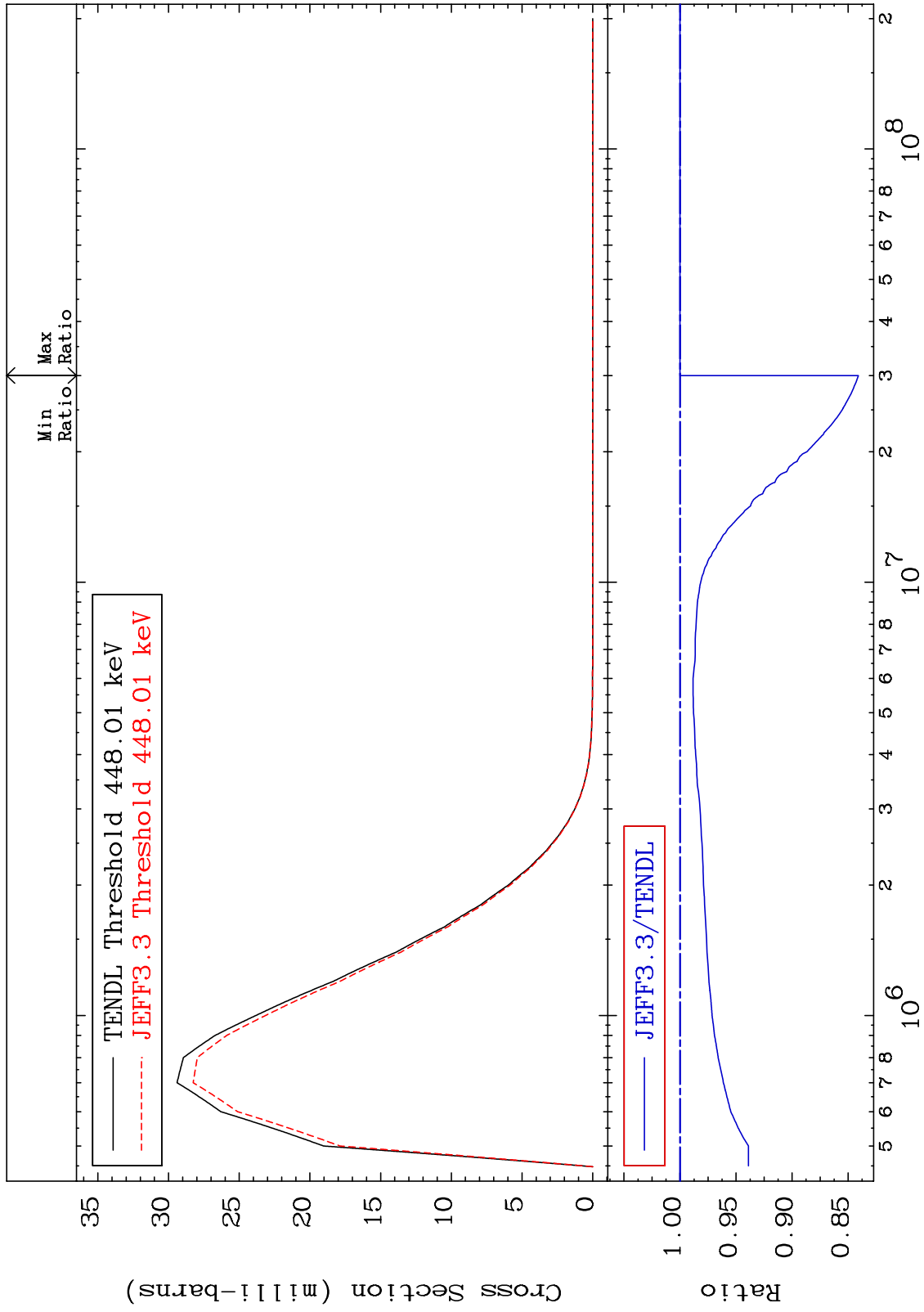
71-Lu-174
-15.93 To 0.000 %



MAT 7122

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

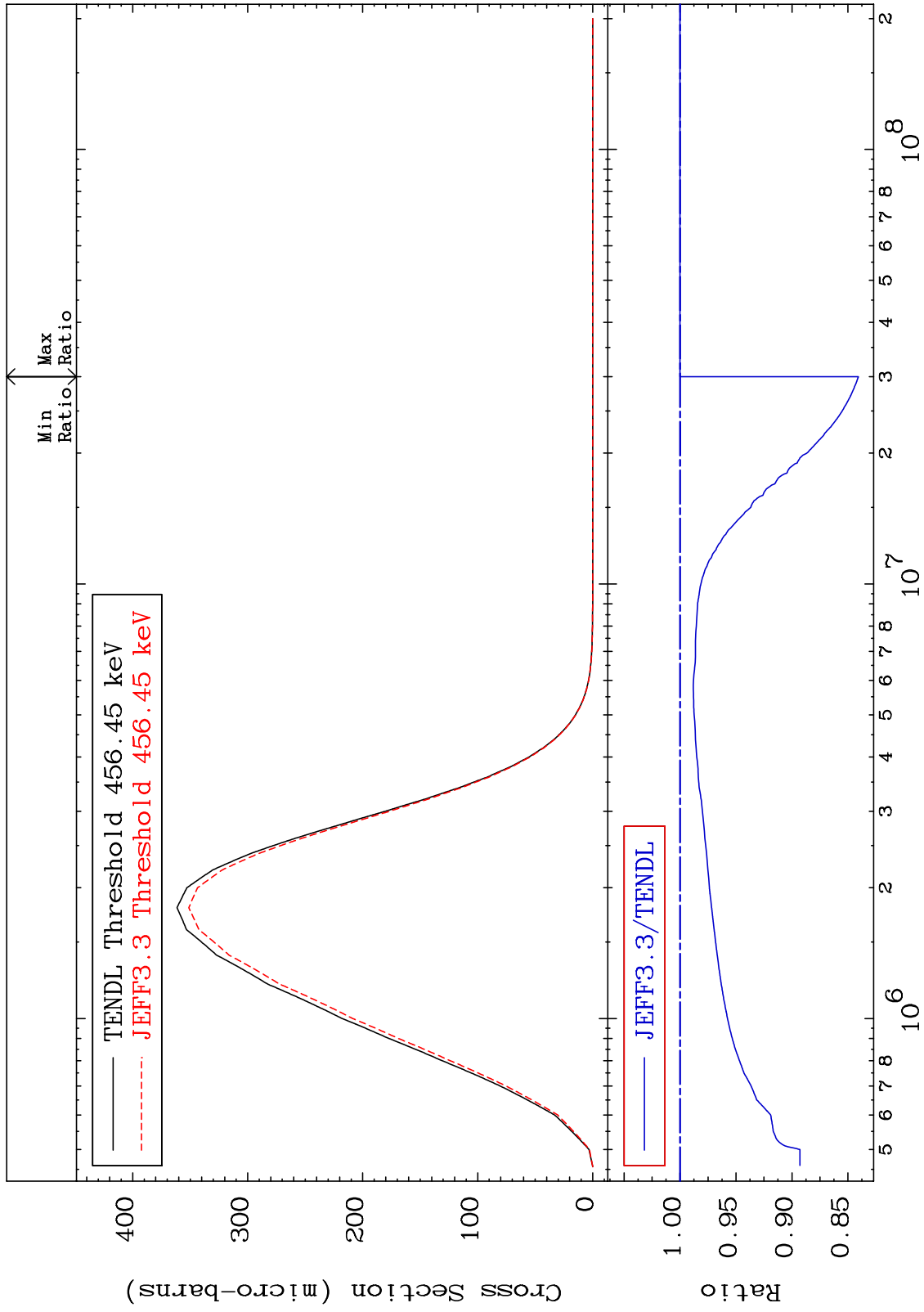
71-Lu-174
-15.91 To 0.000 %



MAT 7122

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

71-Lu-174
-15.93 To 0.000 %

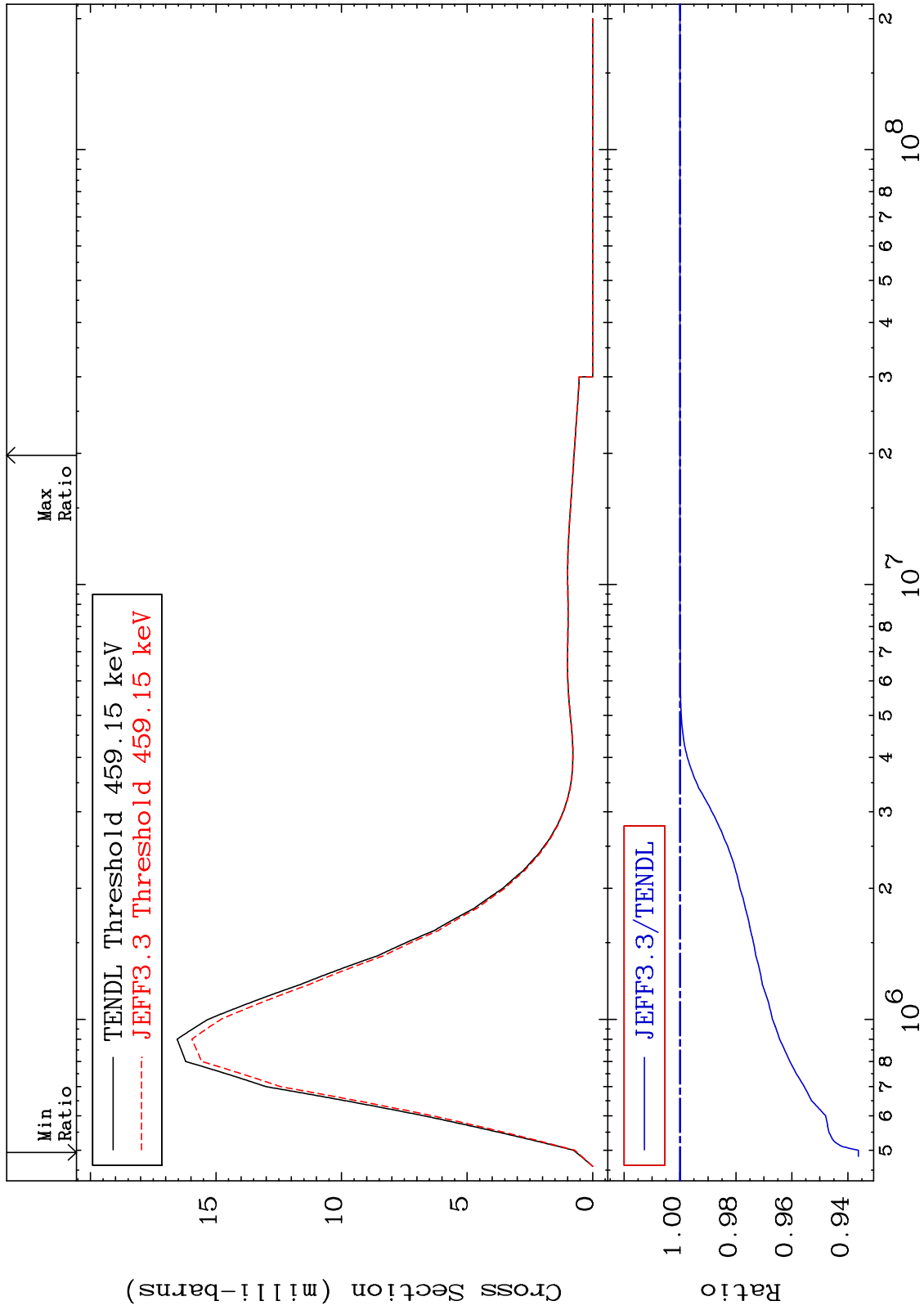


40

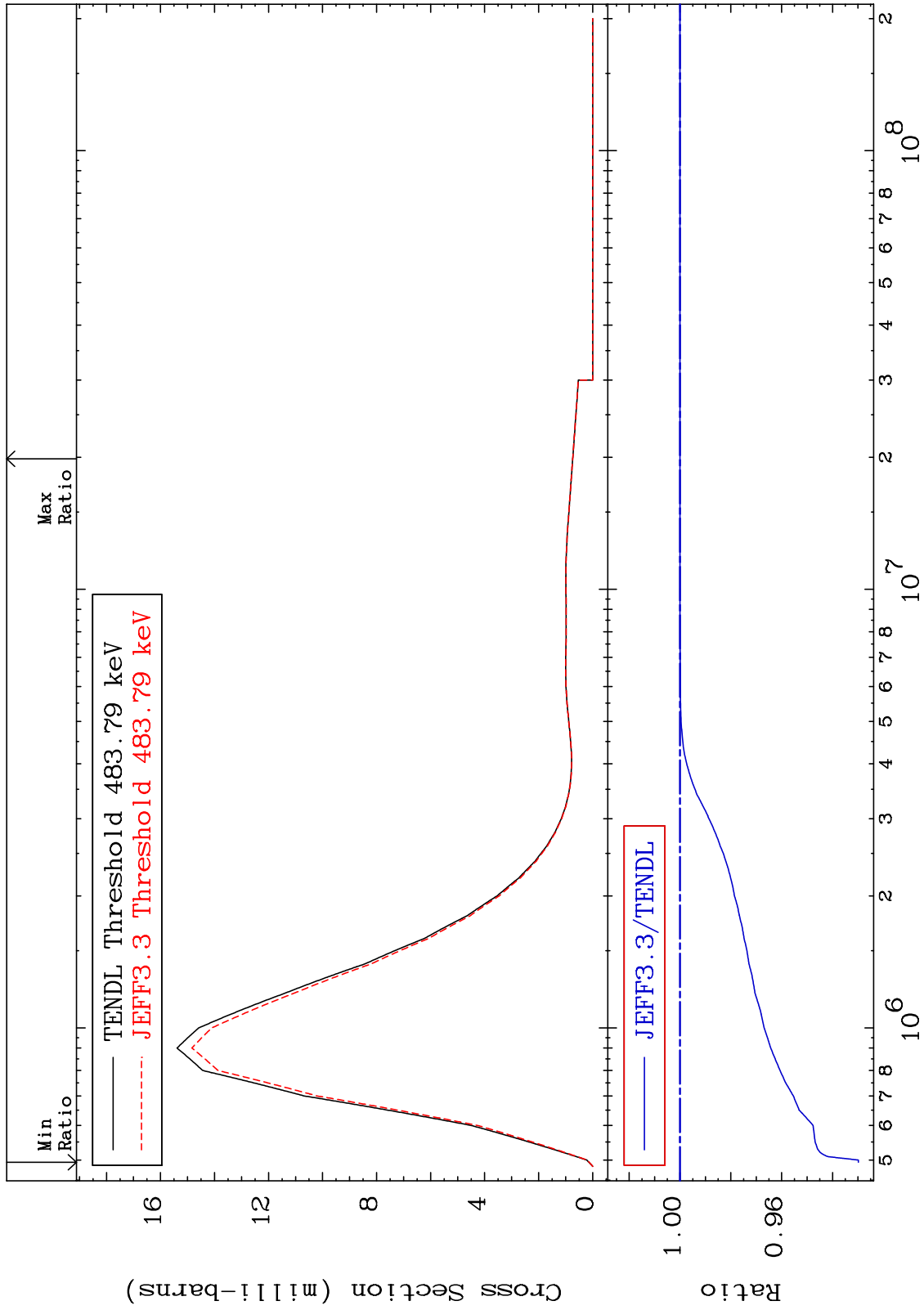
Incident Energy (eV)

71-Lu-174

MAT 7122 MT= 72 (n,n') Level Cross Section 71-Lu-174 -6.379 To 0.000 %



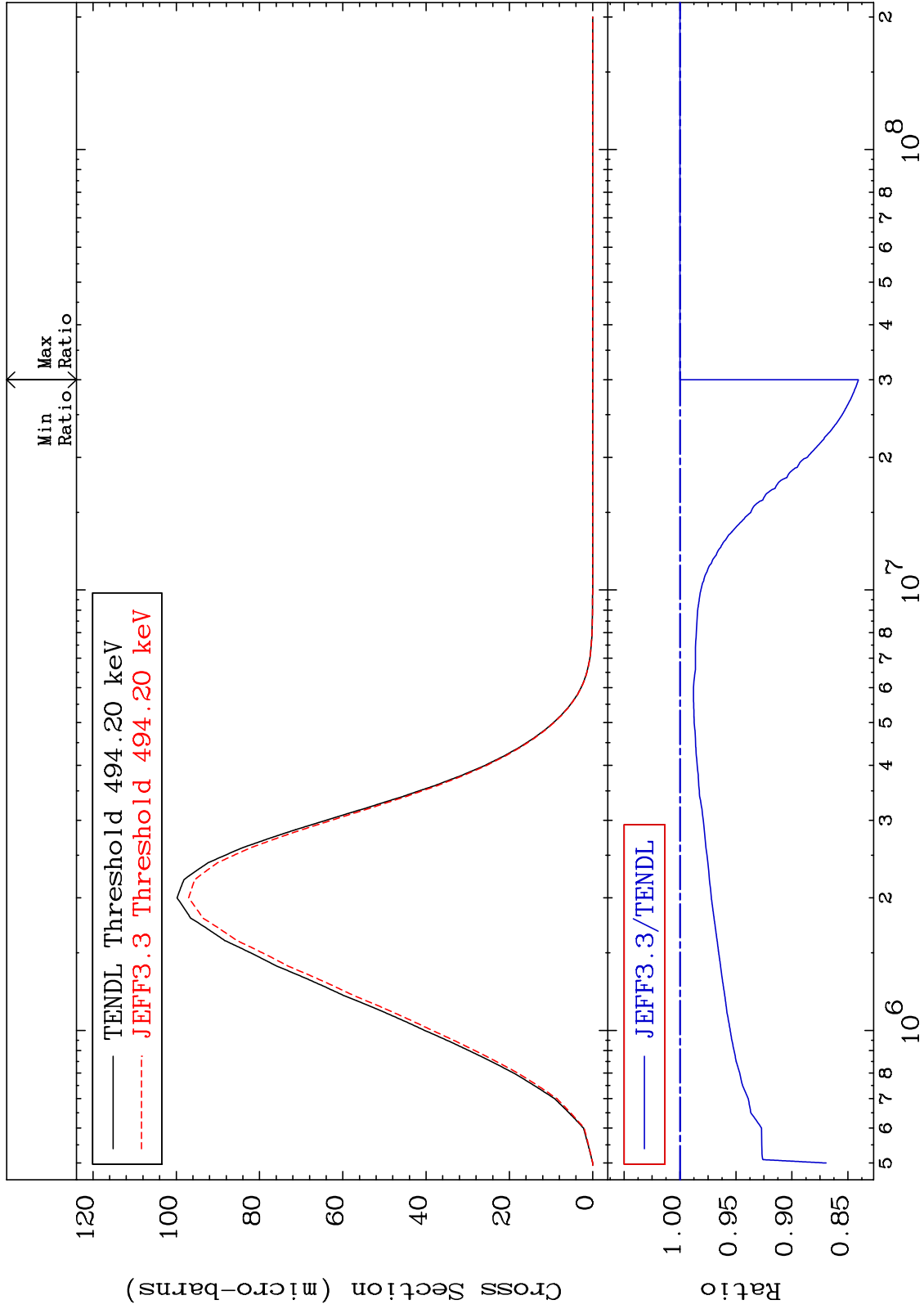
MAT 7122 MT= 73 (n,n') Level Cross Section 71-Lu-174 -7.018 To 0.000 %



MAT 7122

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

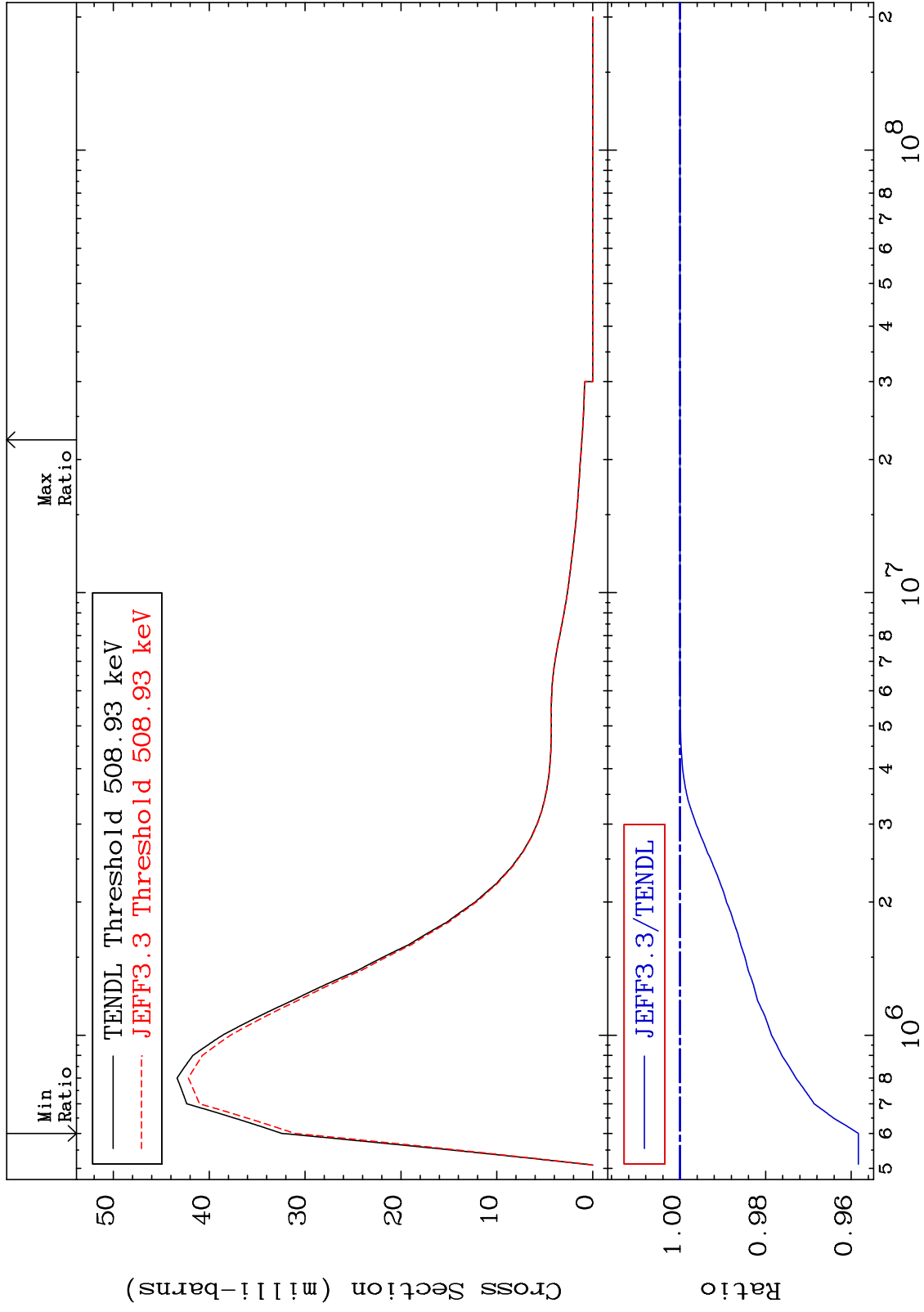
71-Lu-174
-15.94 To 0.000 %



MAT 7122

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

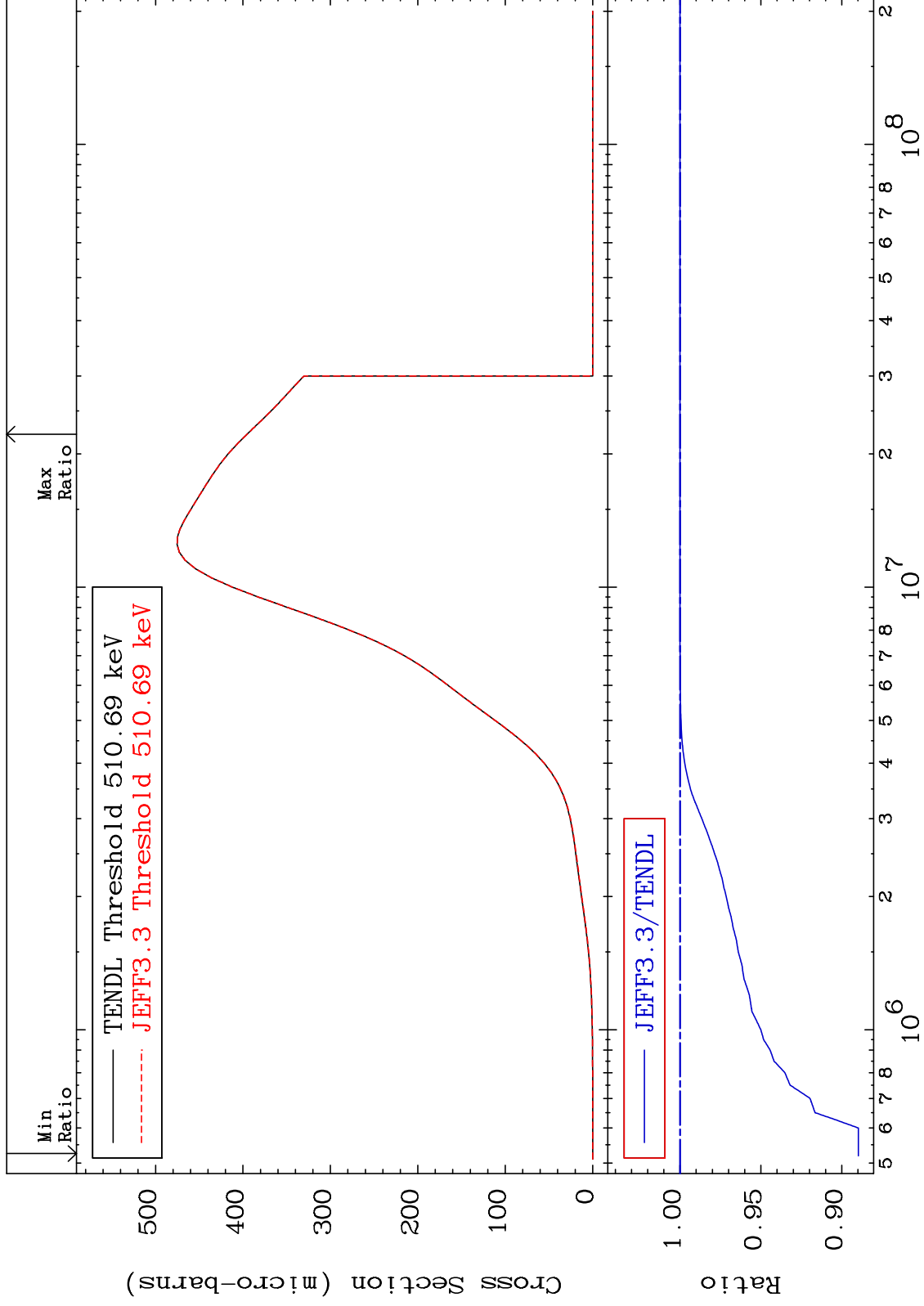
71-Lu-174
-4.167 To 0.000 %



MAT 7122

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

71-Lu-174
-11.03 To 0.000 %



45

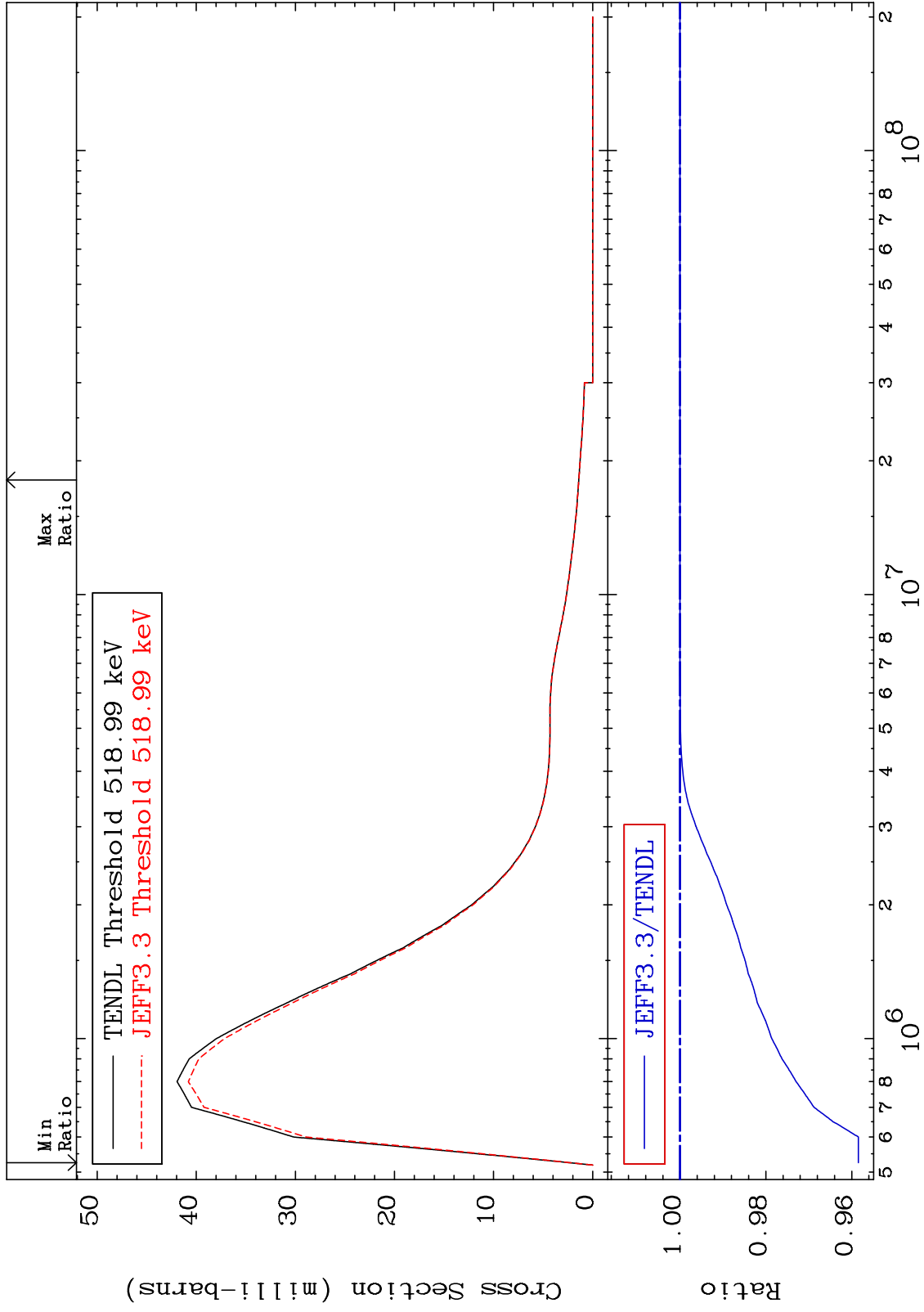
71-Lu-174

71-Lu-174

MAT 7122

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

71-Lu-174
-4.156 To 0.000 %



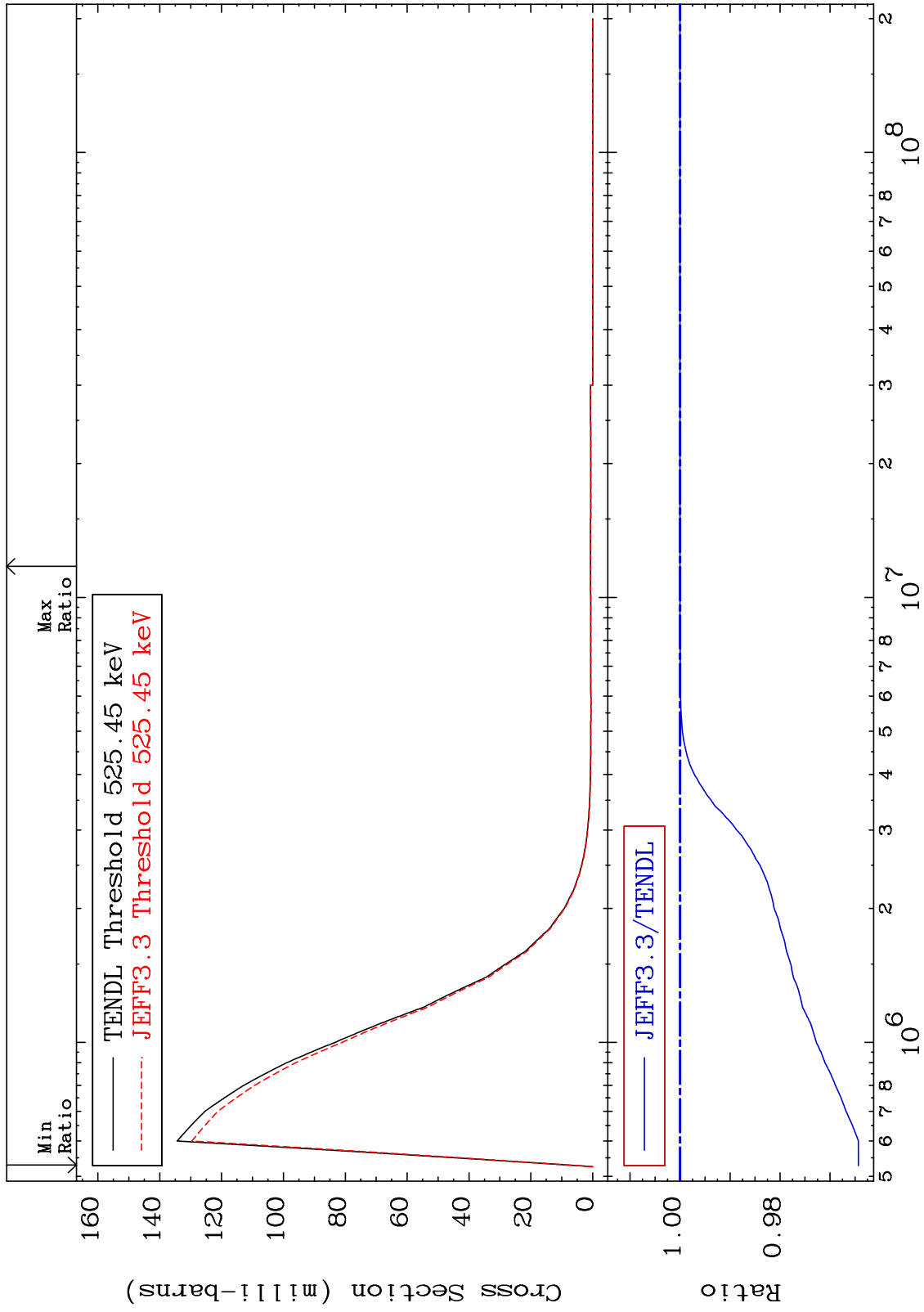
46

71-Lu-174

MAT 7122

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

71-Lu-174
-3.568 To 0.000 %



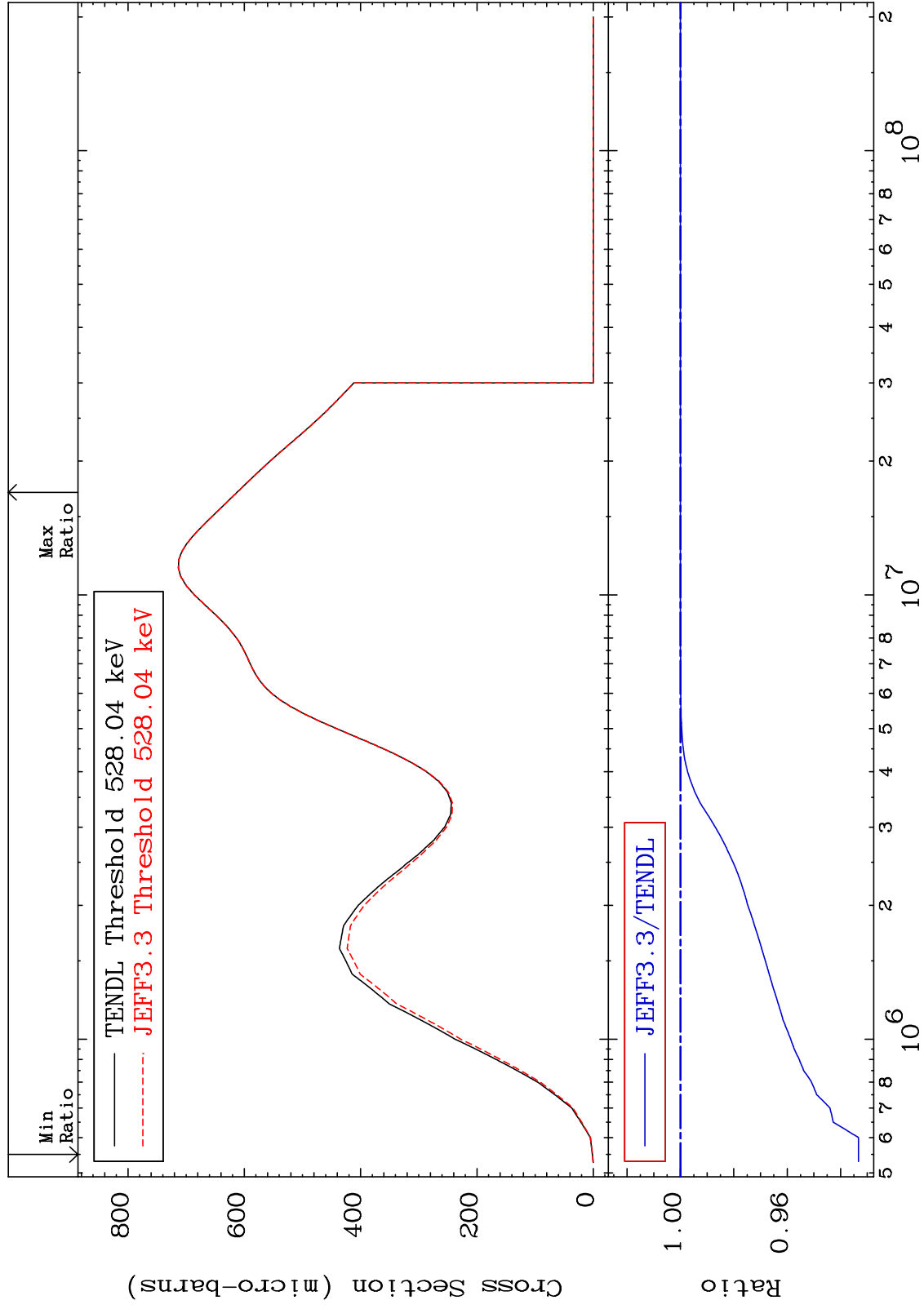
47

71-Lu-174

MAT 7122

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

71-Lu-174
-6.673 To 0.000 %



48

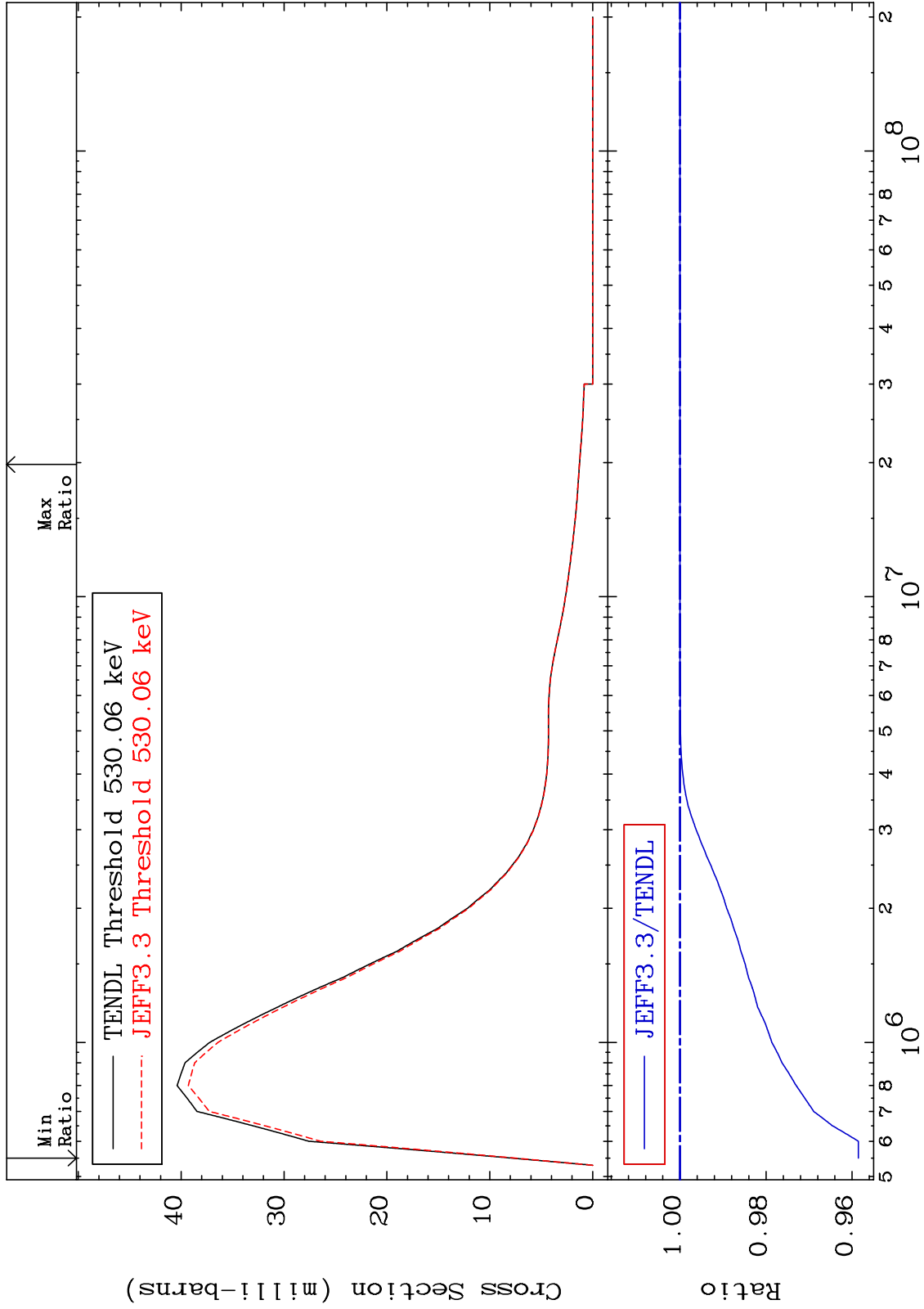
Incident Energy (eV)

71-Lu-174

MAT 7122

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

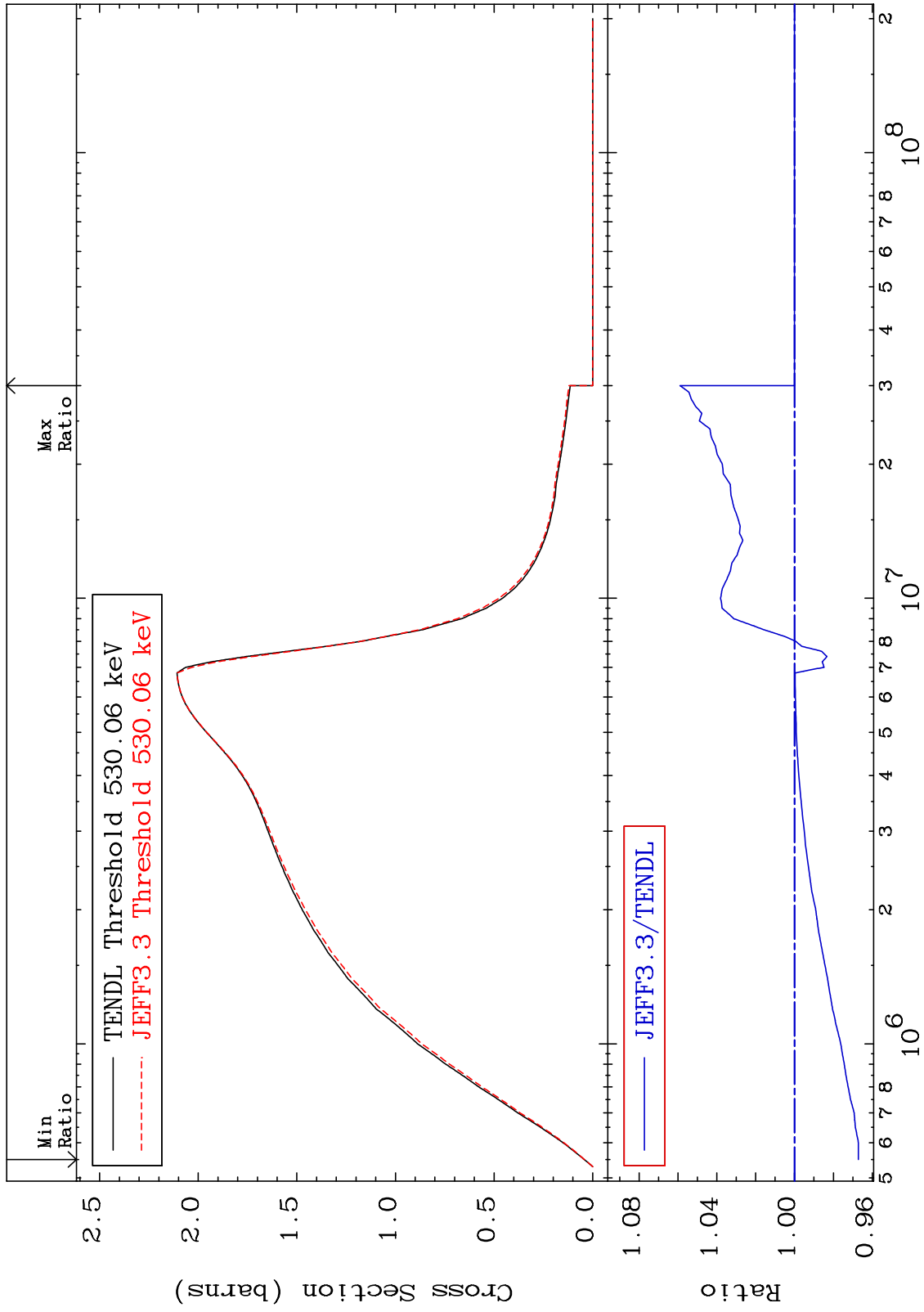
71-Lu-174
-4.146 To 0.000 %



MAT 7122

(n, n') Continuum
Cross Section

71-Lu-174
-3.288 To 5.899 %



50

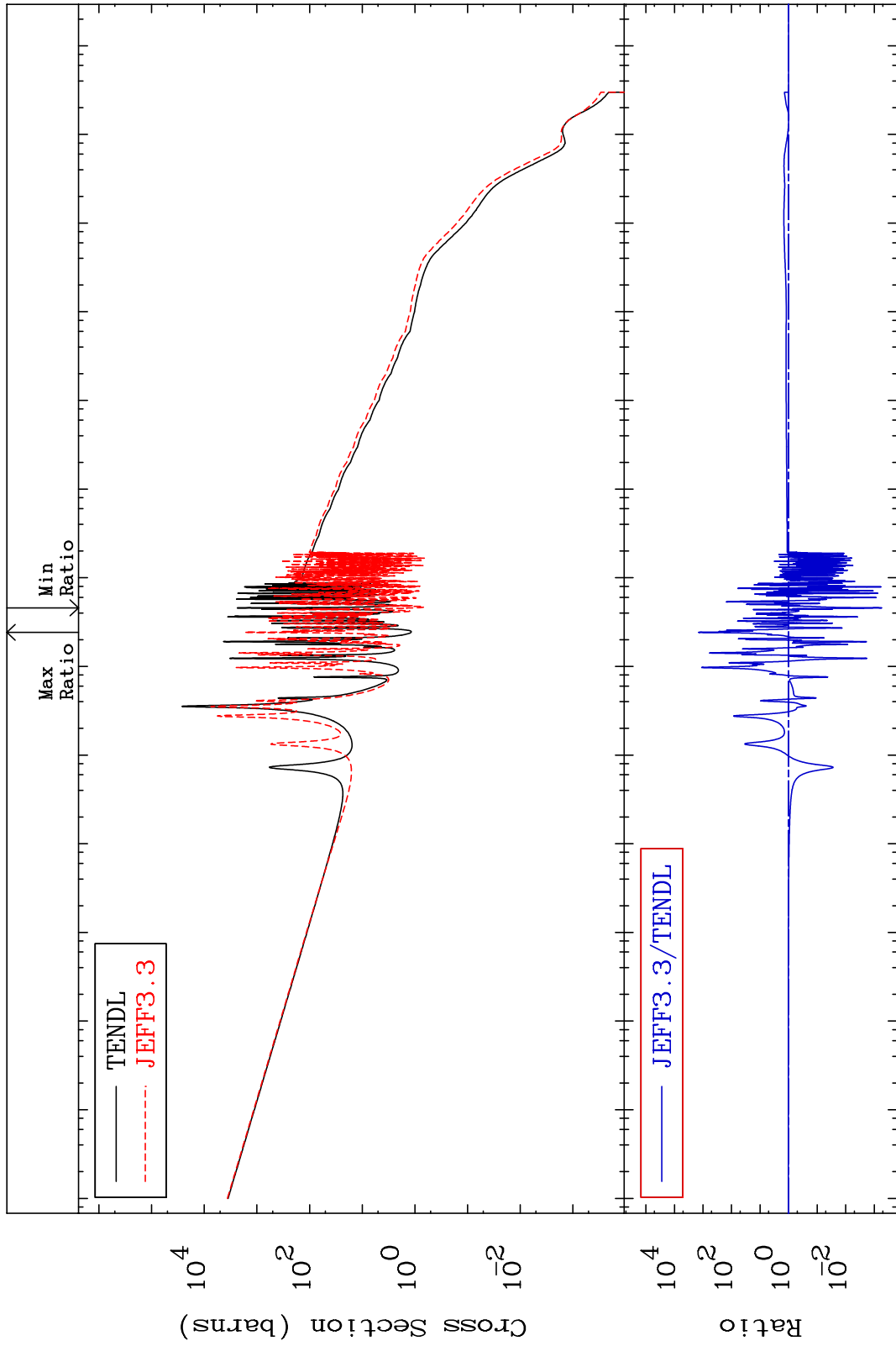
Incident Energy (eV)

71-Lu-174

MAT 7122

(n, γ)
Cross Section

71-Lu-174
-99.94 To 9999. %



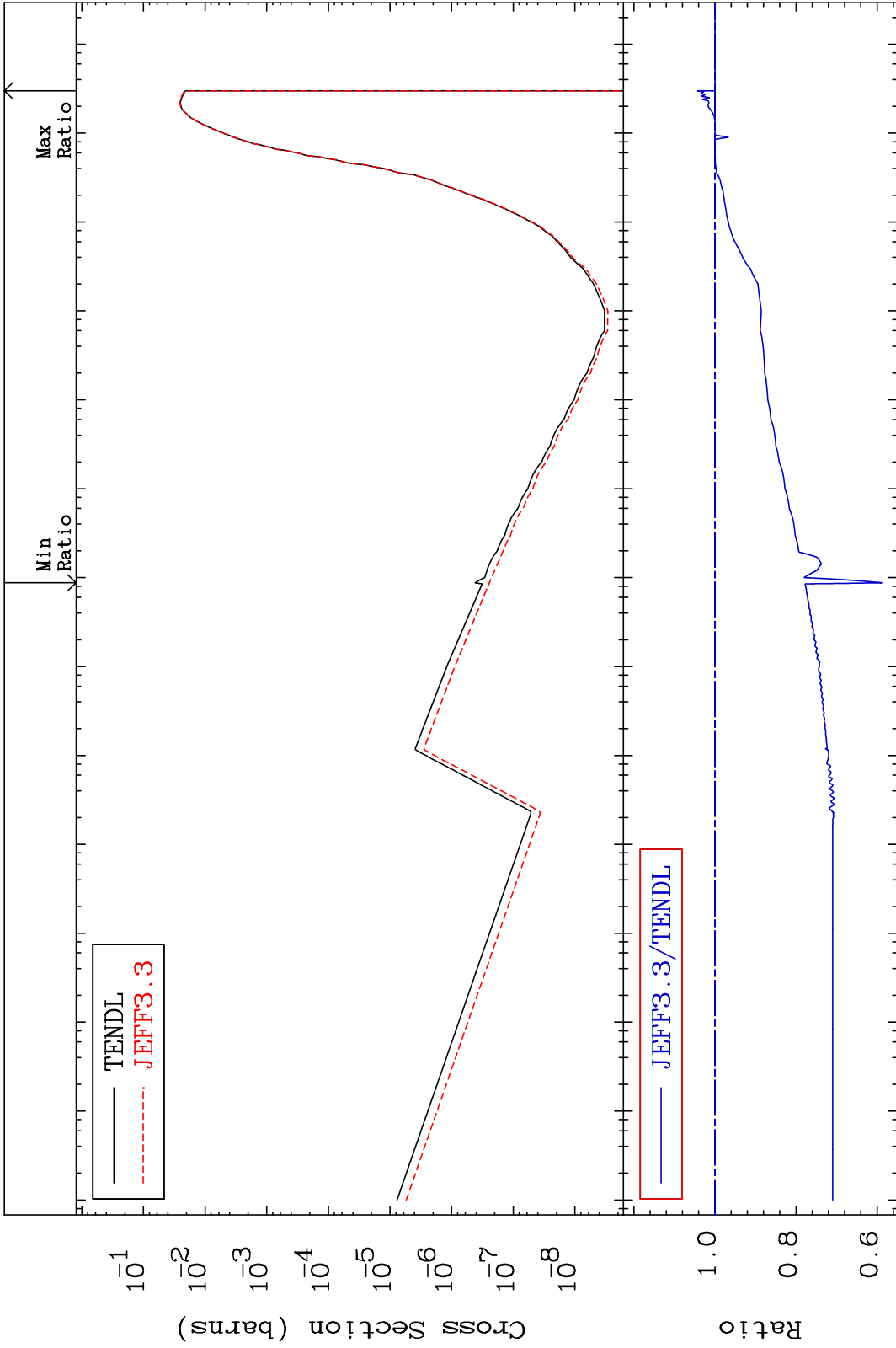
MAT 7122

(n, p)

71-Lu-174

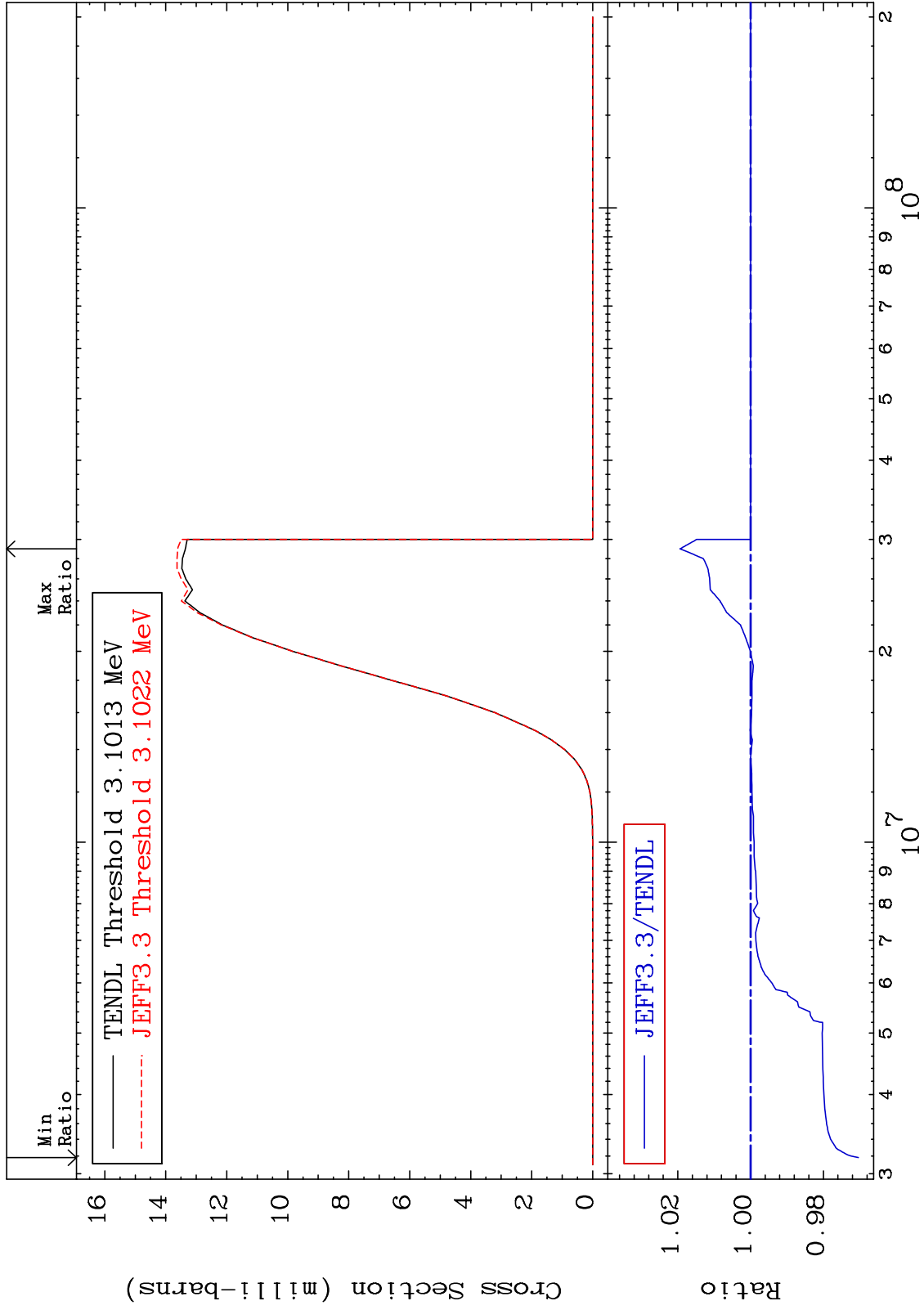
Cross Section

-41.09 To 4.224 %



MAT 7122

(n, d)
Cross Section
71-Lu-174
-2.962 To 1.939 %



71-Lu-174

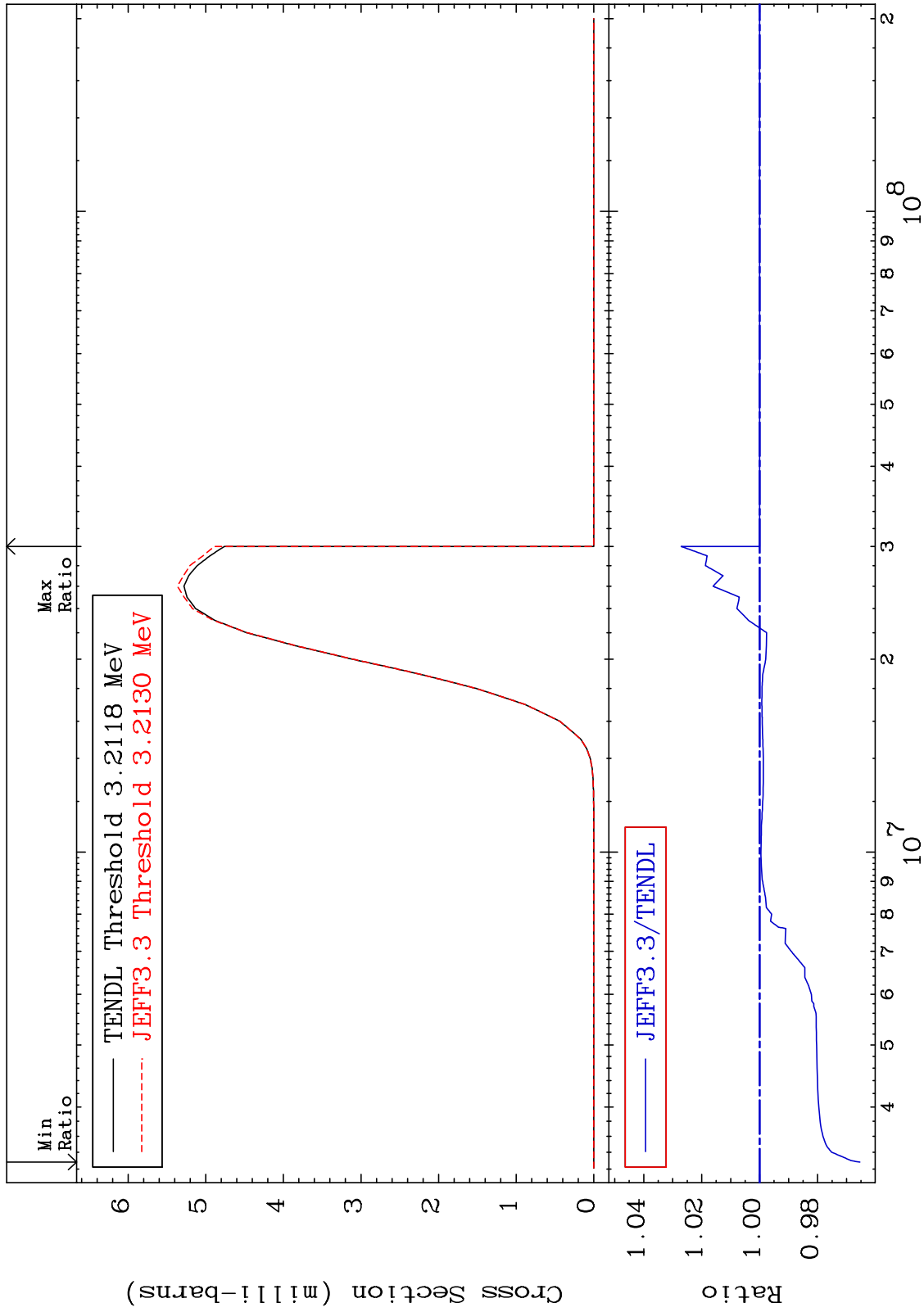
Incident Energy (eV)

53

MAT 7122

71-Lu-174

(n, t)
Cross Section
-3.461 To 2.706 %



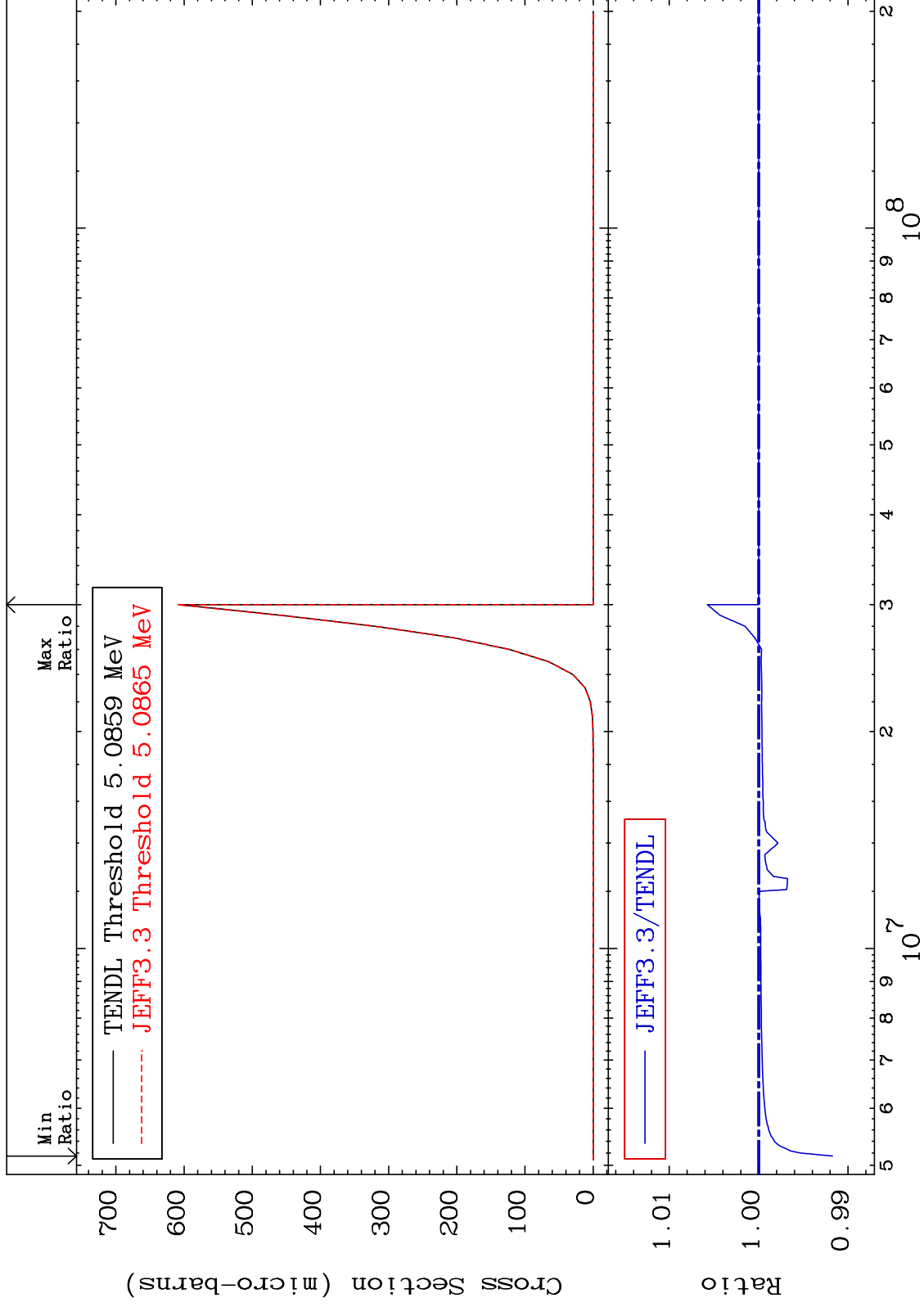
MAT 7122

(n, He-3)

71-Lu-174

Cross Section

-0.826 To 0.575 %



55

Incident Energy (eV)

71-Lu-174

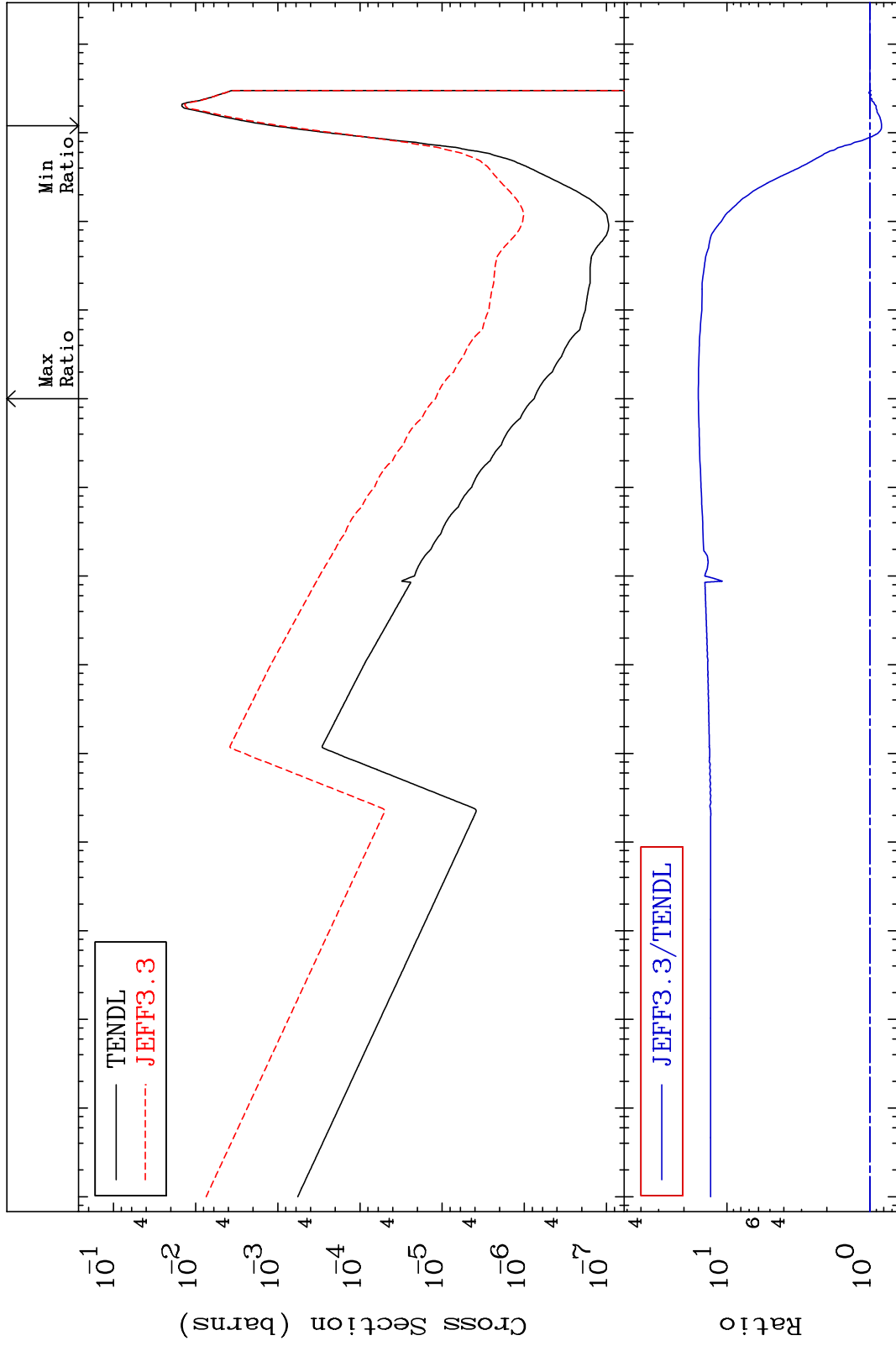
MAT 7122

(n, α)

71-Lu-174

Cross Section

-17.21 To 1484. %



Incident Energy (eV)

56

71-Lu-174

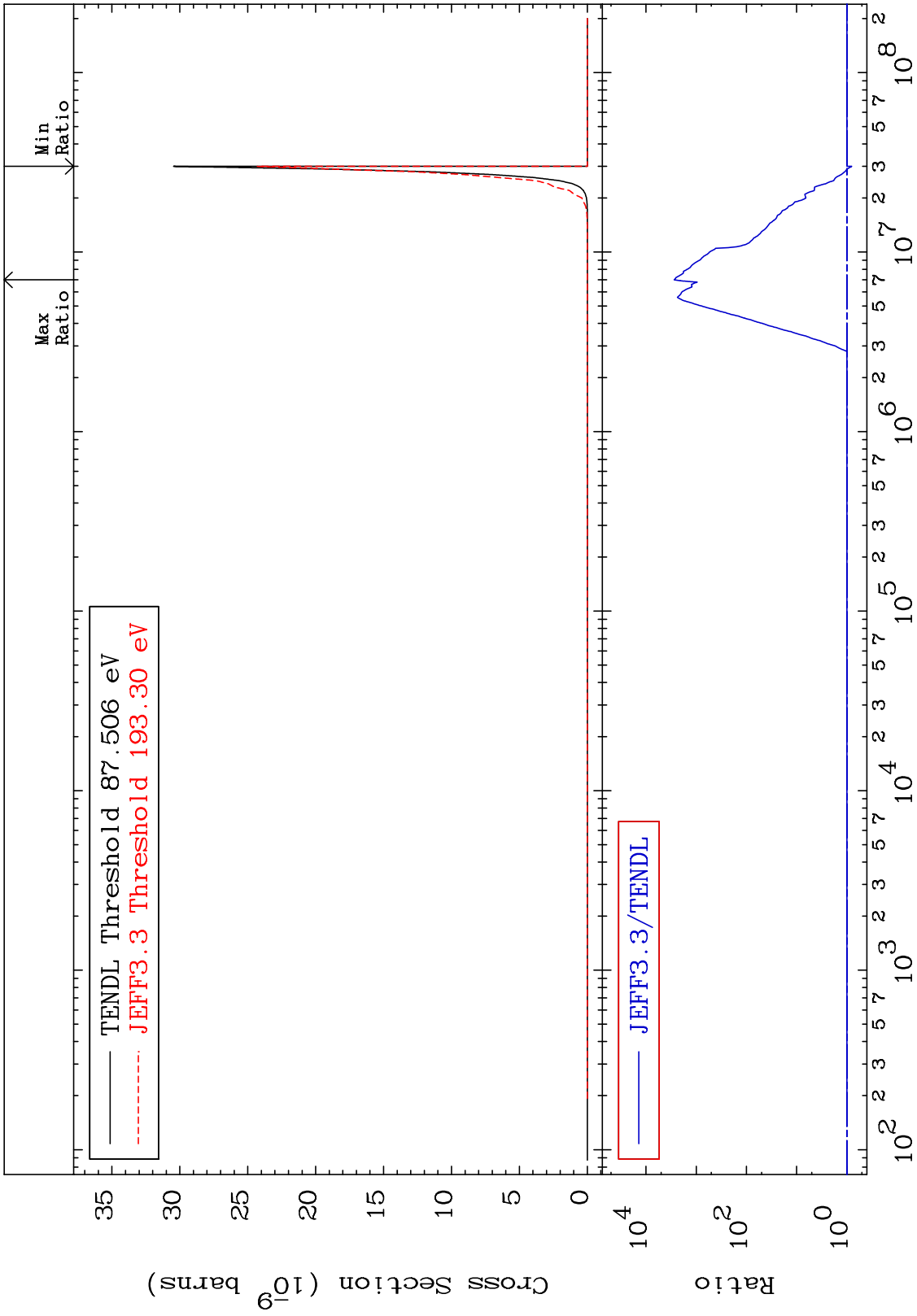
MAT 7122

(n, 2α)

71-Lu-174

Cross Section

-20.19 To 9999. %



57

Incident Energy (eV)

71-Lu-174

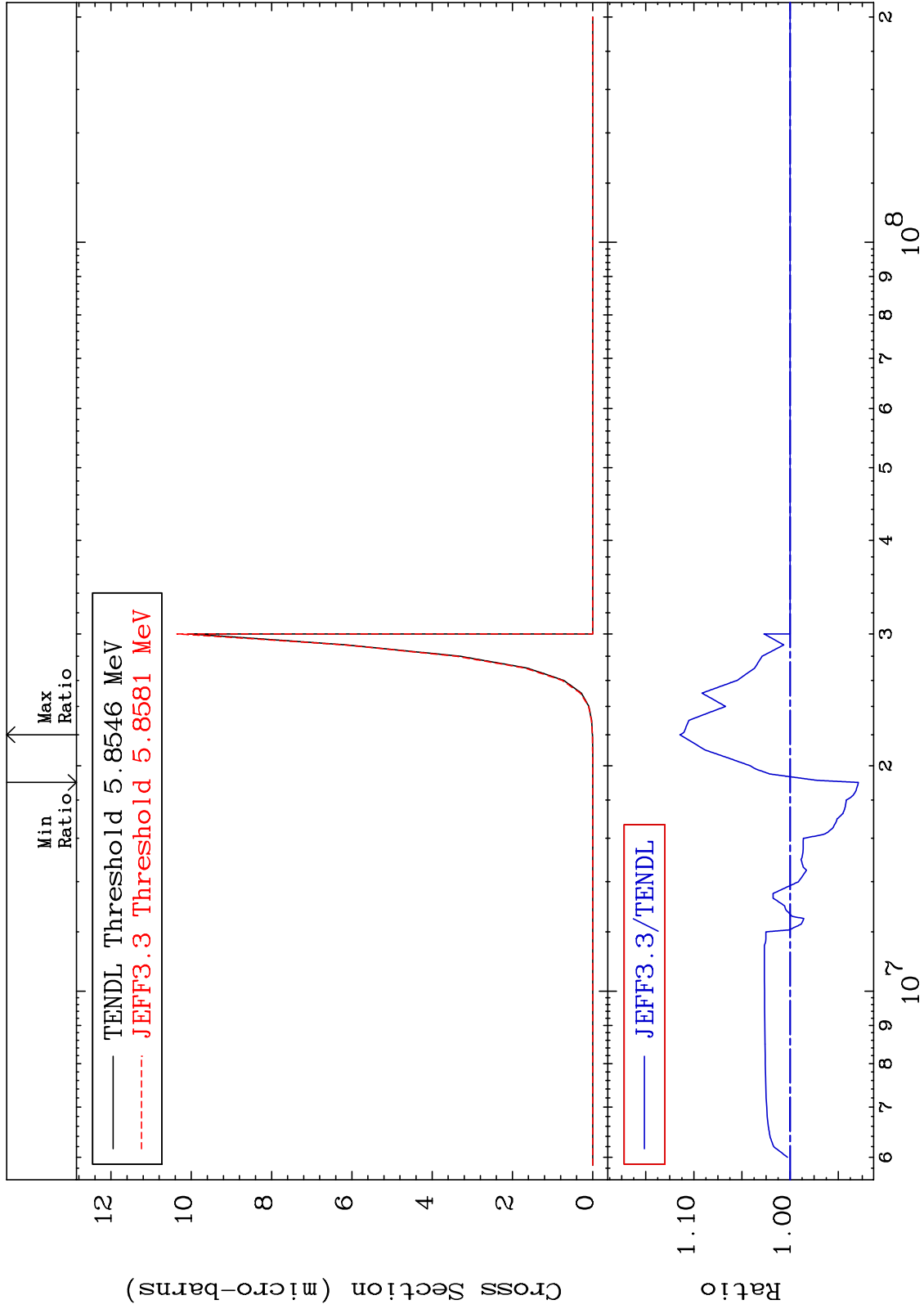
MAT 7122

(n,2p)

71-Lu-174

Cross Section

-7.096 To 11.44 %



58

Incident Energy (eV)

71-Lu-174

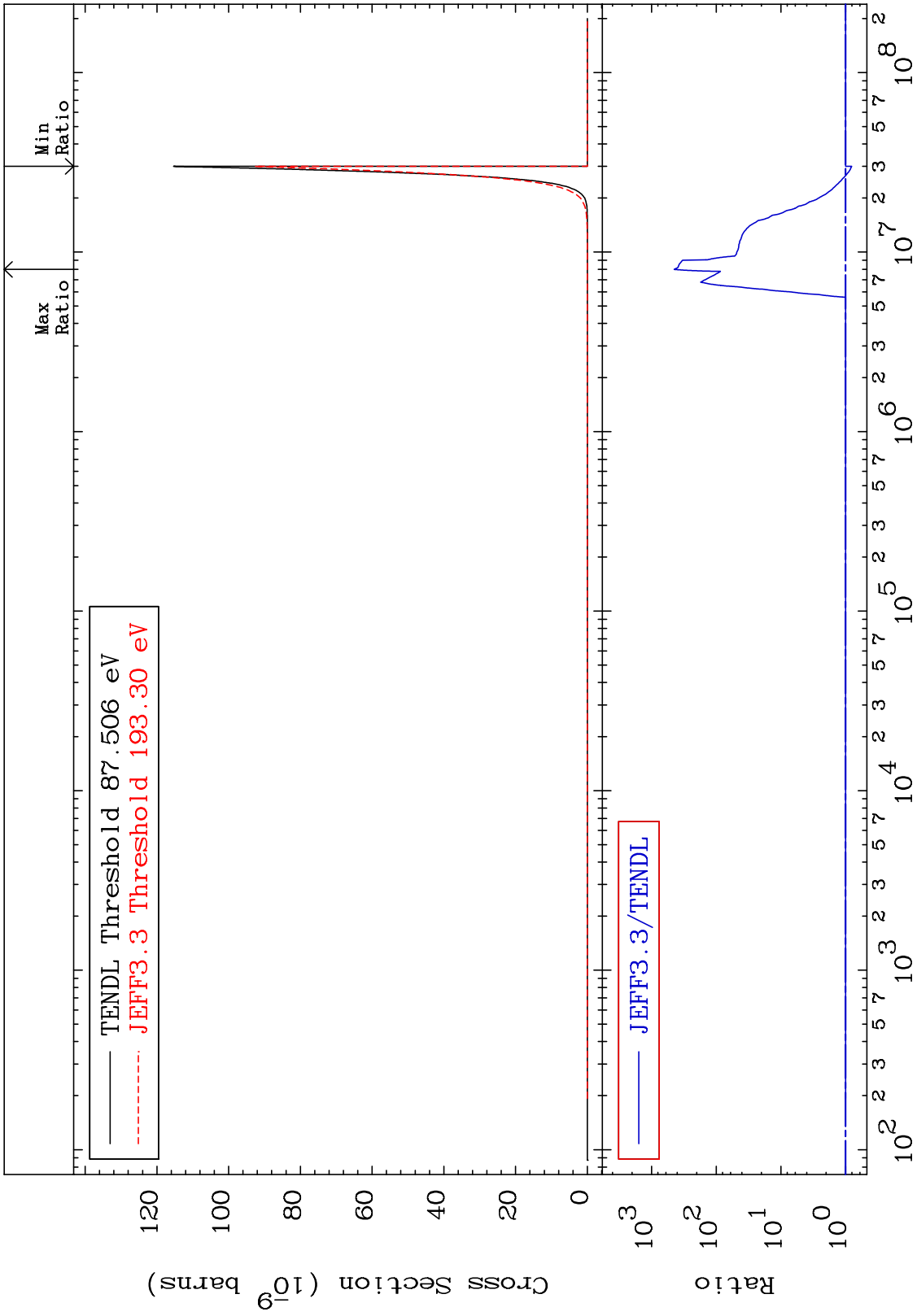
MAT 7122

(n,p) α

Cross Section

71-Lu-174

-19.59 To 9999. %



59

Incident Energy (eV)

71-Lu-174

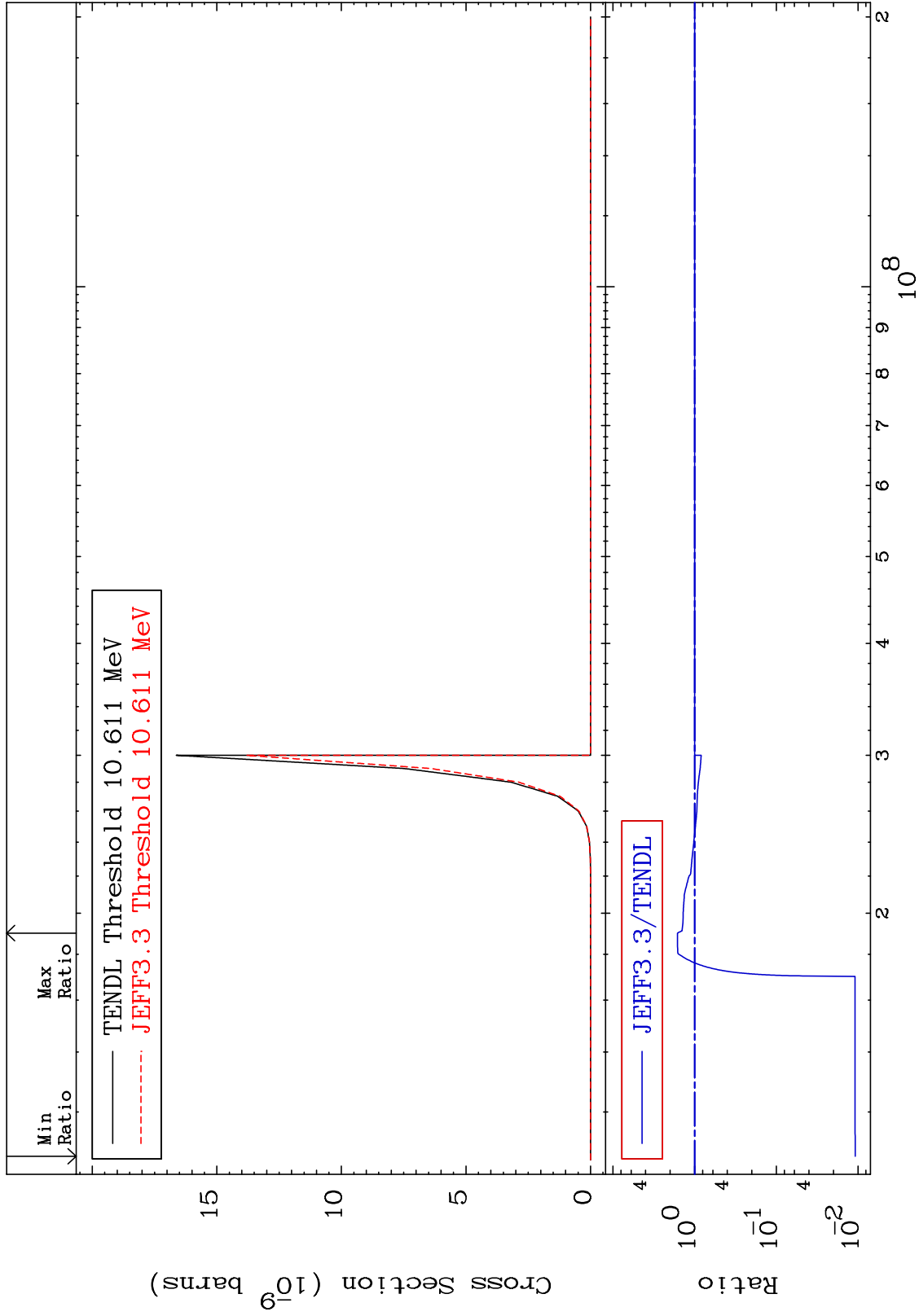
MAT 7122

(n,p) d

71-Lu-174

Cross Section

-98.92 To 62.02 %



60

Incident Energy (eV)

71-Lu-174

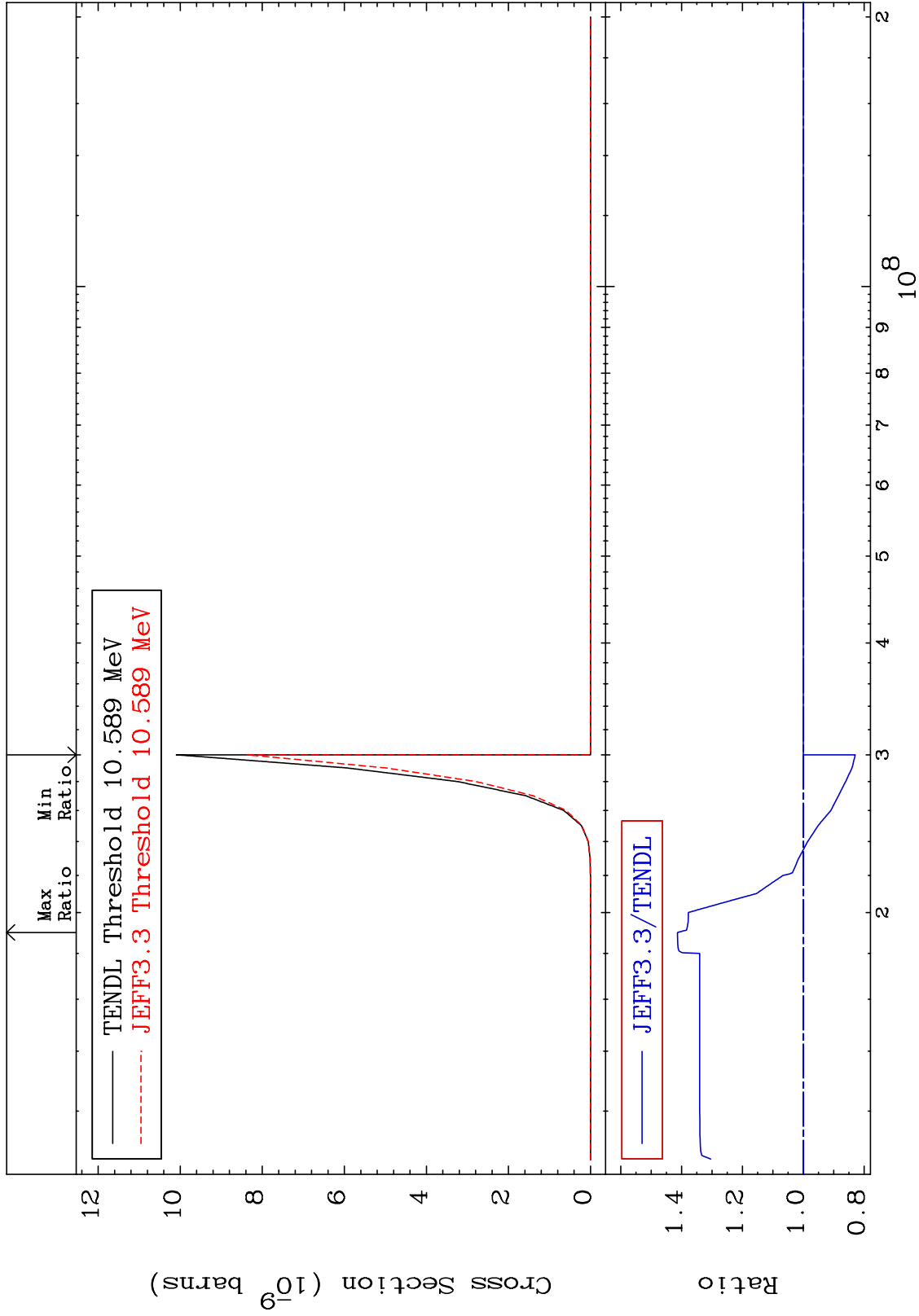
MAT 7122

(n,p) t

71-Lu-174

Cross Section

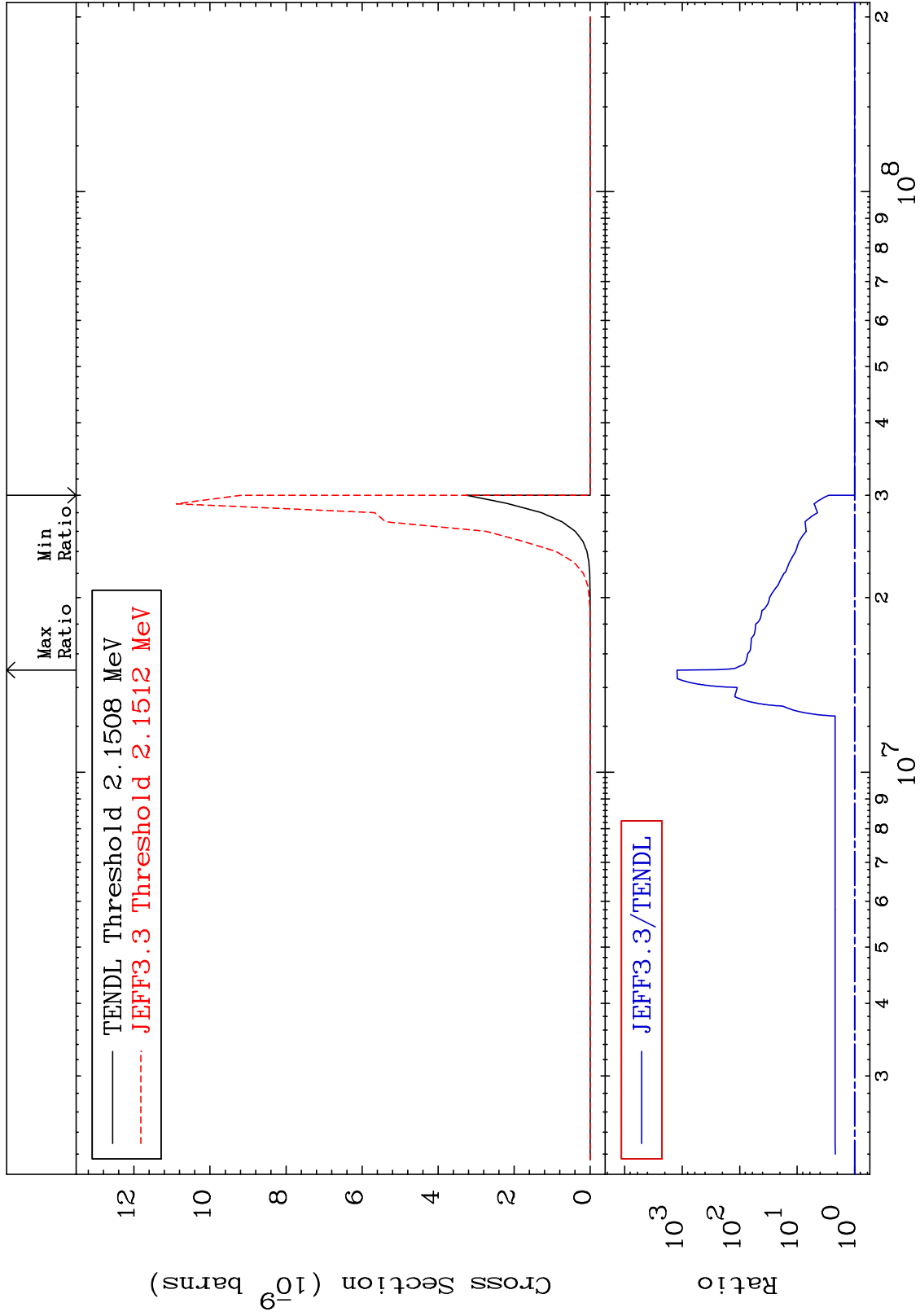
-17.05 To 41.35 %



MAT 7122

(n,d) α
Cross Section

71-Lu-174
0.000 To 9999. %



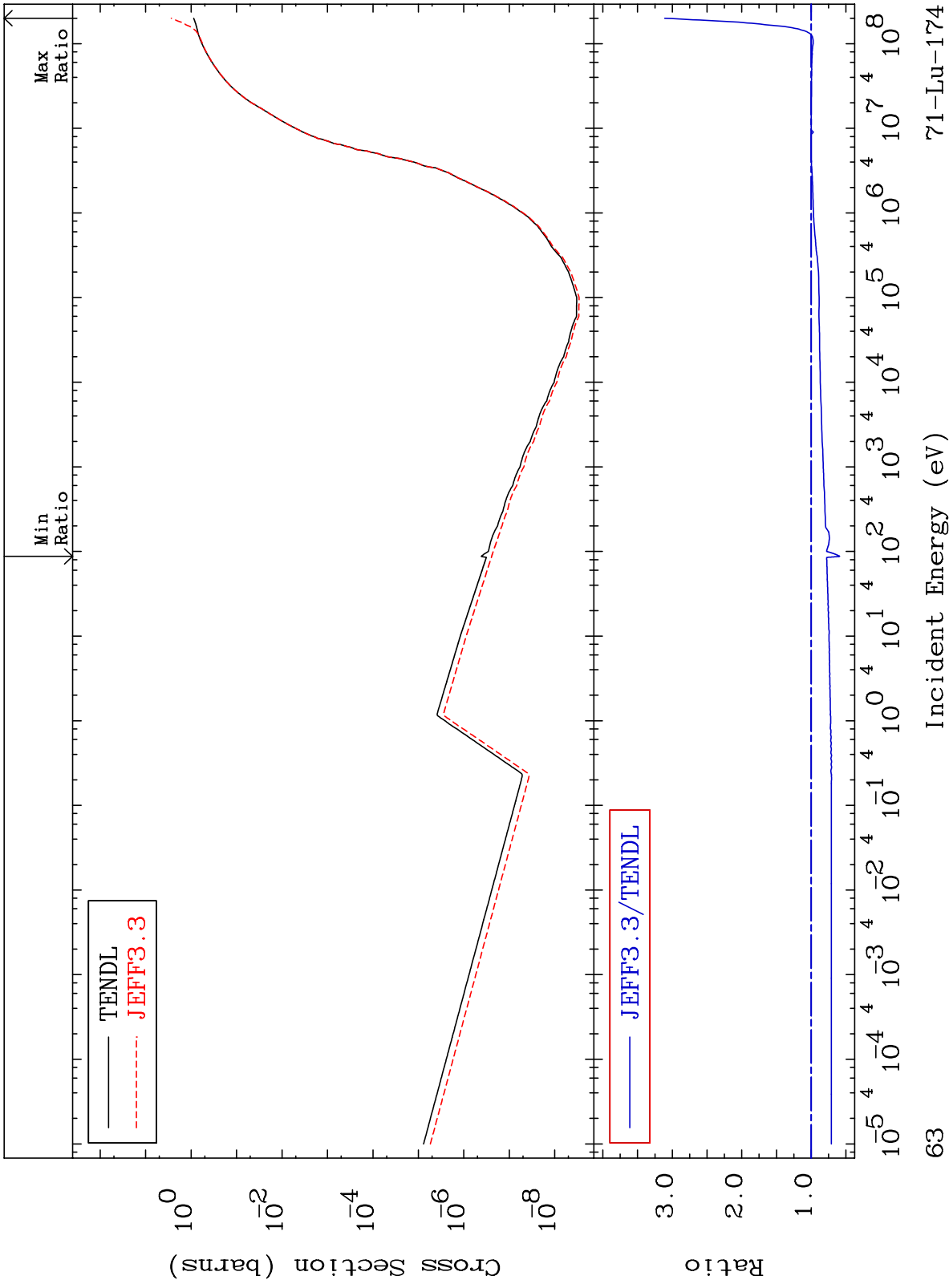
62

71-Lu-174

MAT 7122

Hydrogen Production
Cross Section

71-Lu-174
-41.09 To 210.9 %



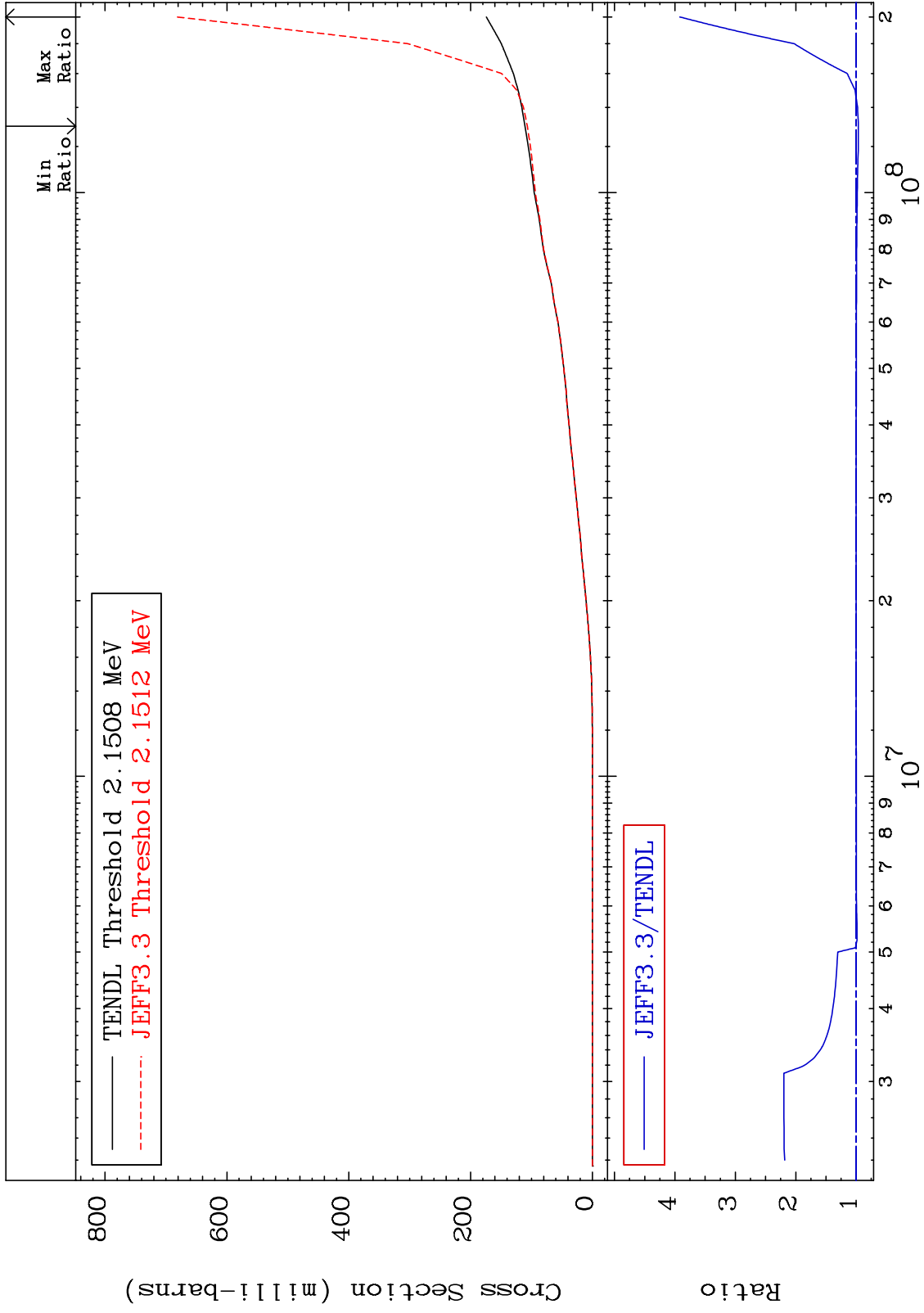
63

71-Lu-174

MAT 7122

Deuterium Production
Cross Section

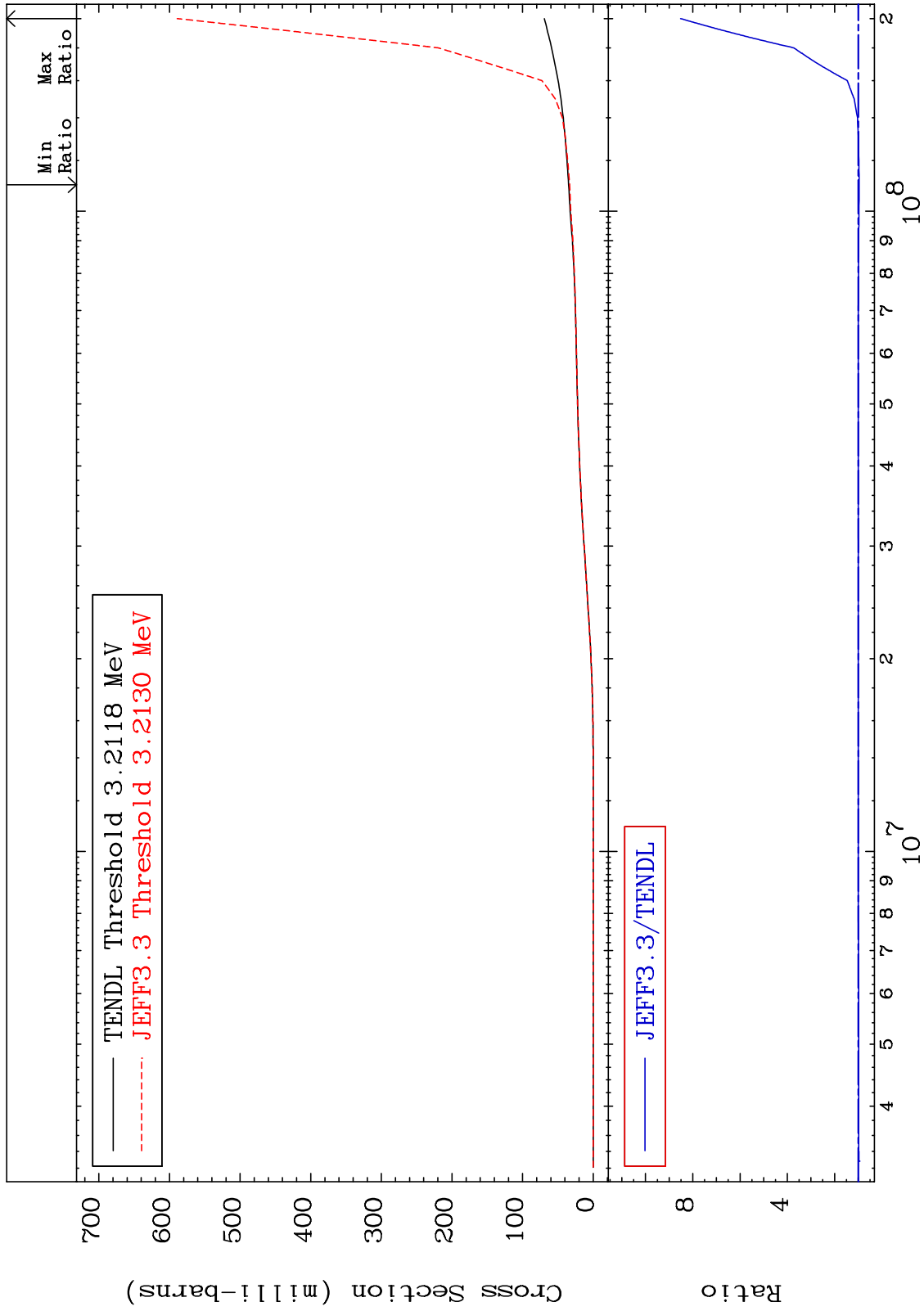
71-Lu-174
-3.582 To 291.9 %



MAT 7122

Tritium Production
Cross Section

71-Lu-174
-4.072 To 751.4 %



65

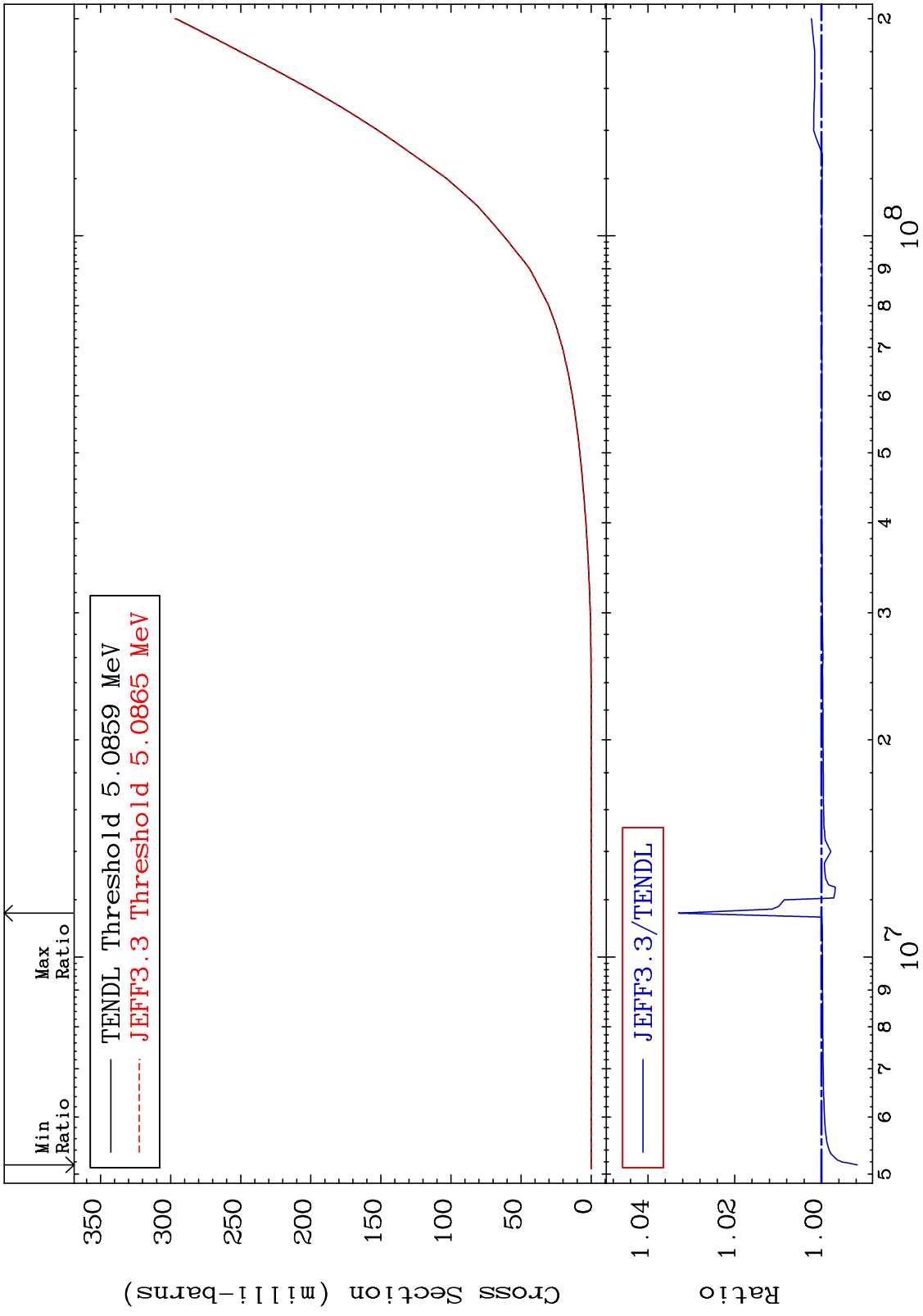
Incident Energy (eV)

71-Lu-174

MAT 7122

He-3 Production
Cross Section

71-Lu-174
-0.826 To 3.292 %



66

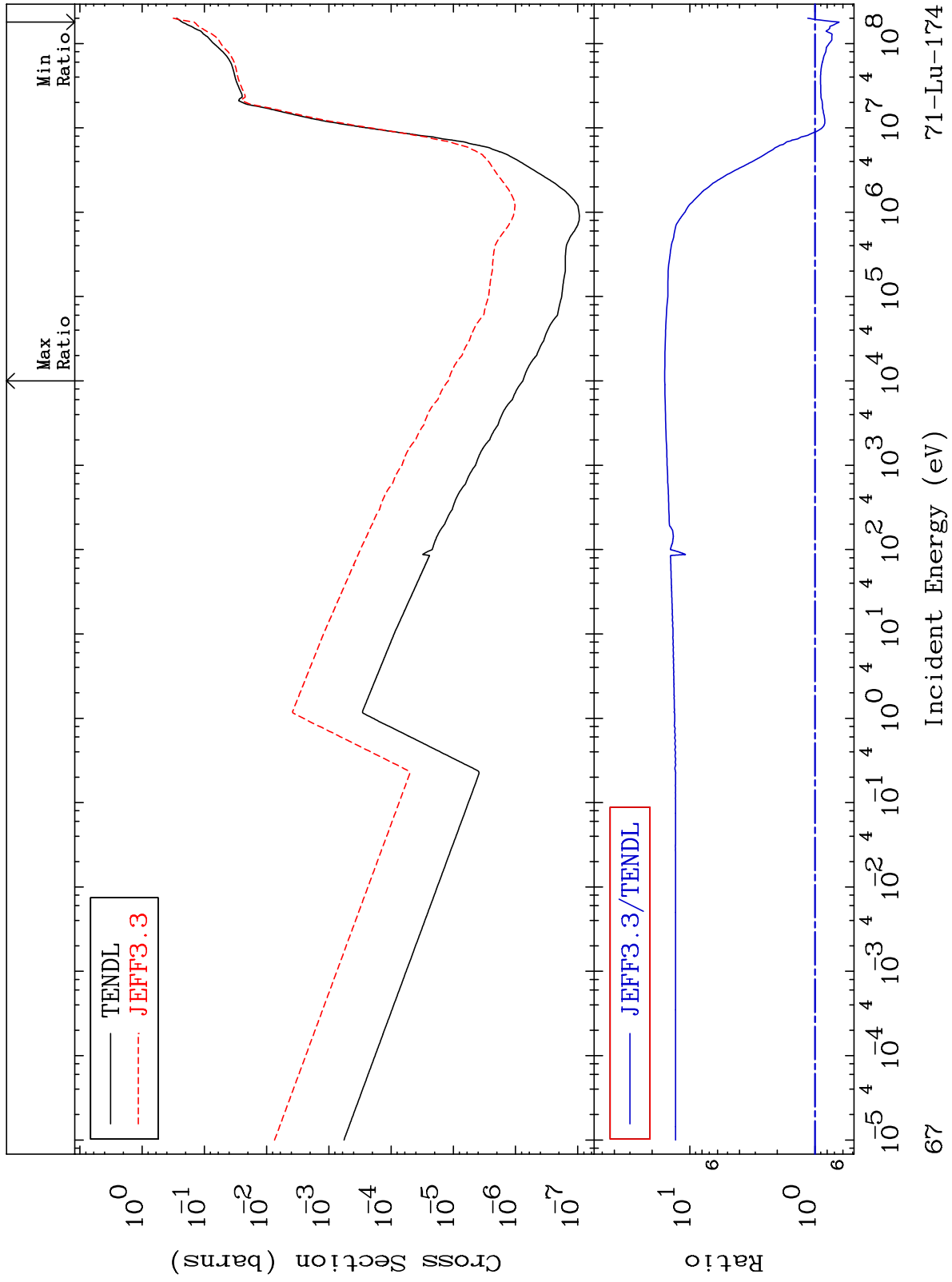
Incident Energy (eV)

71-Lu-174

MAT 7122

He-4 Production
Cross Section

71-Lu-174
-35.76 To 1484. %



67

71-Lu-174

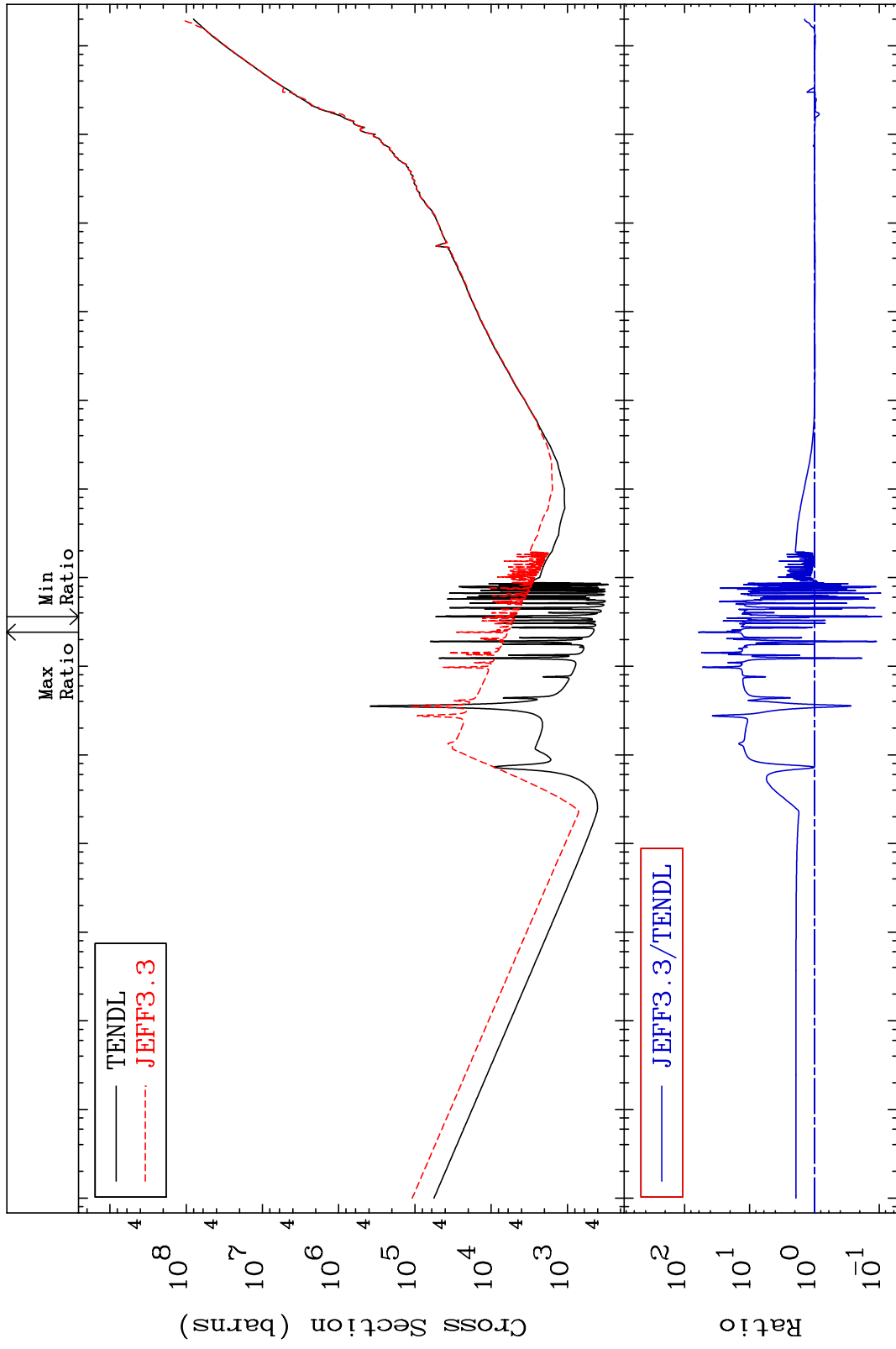
MAT 7122

Kerma total (eV-barns)

71-Lu-174

-90.76 To 6051. %

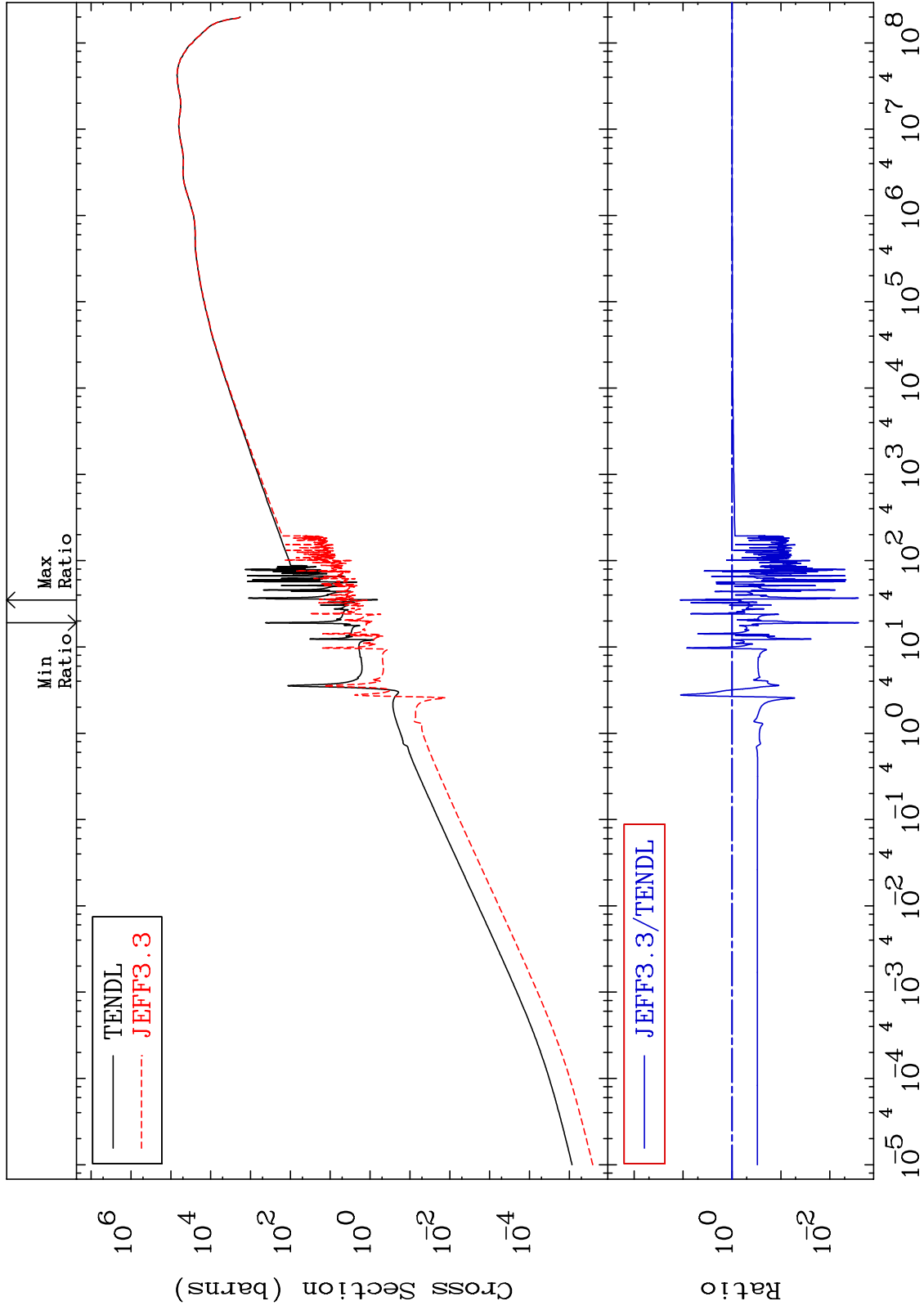
Cross Section



MAT 7122

Kerma elastic
Cross Section

71-Lu-174
-99.74 To 1055. %



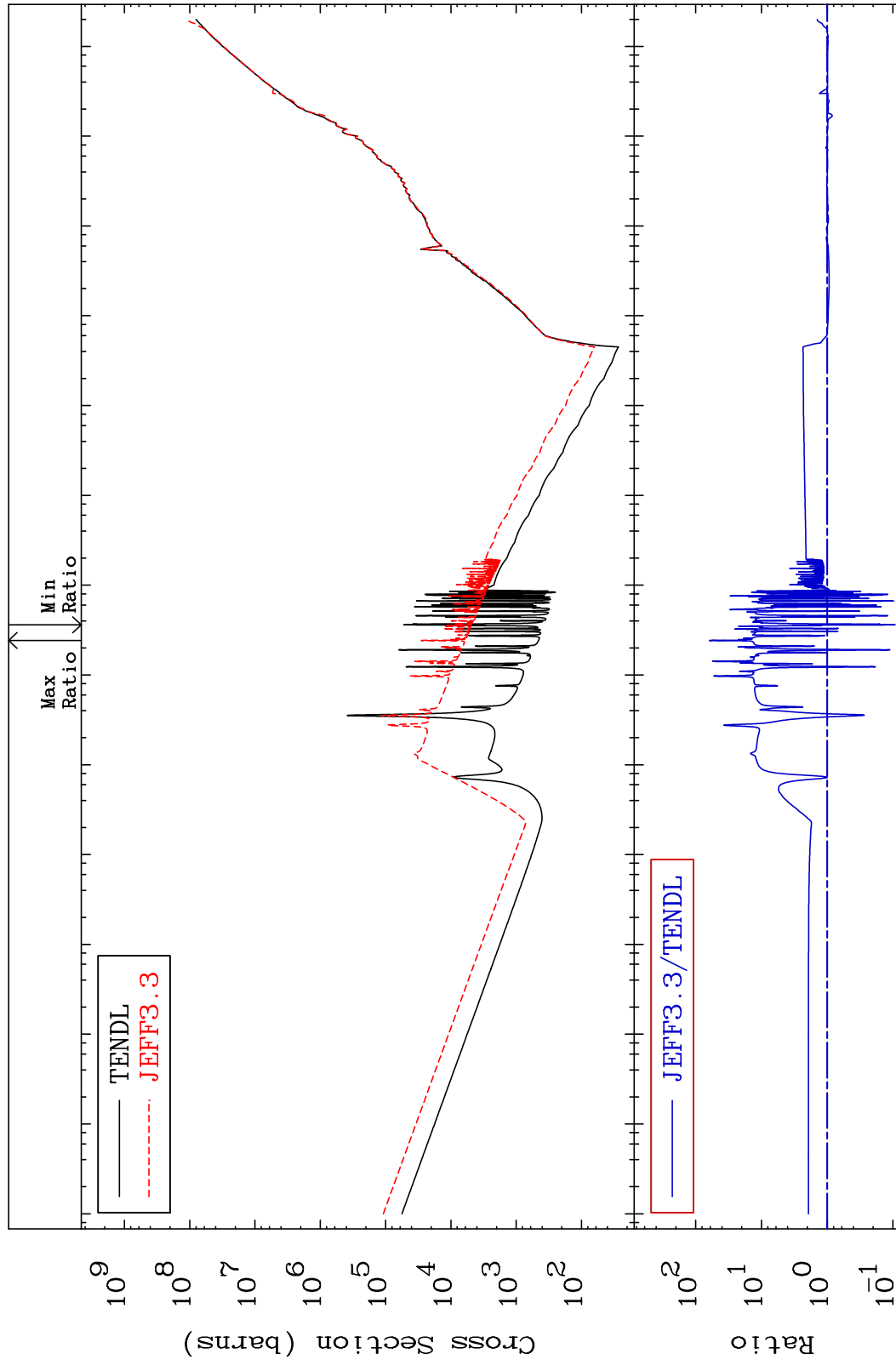
MAT 7122

Kerma non-elastic (all but mt2)

71-Lu-174

-90.70 To 6109. %

Cross Section



70

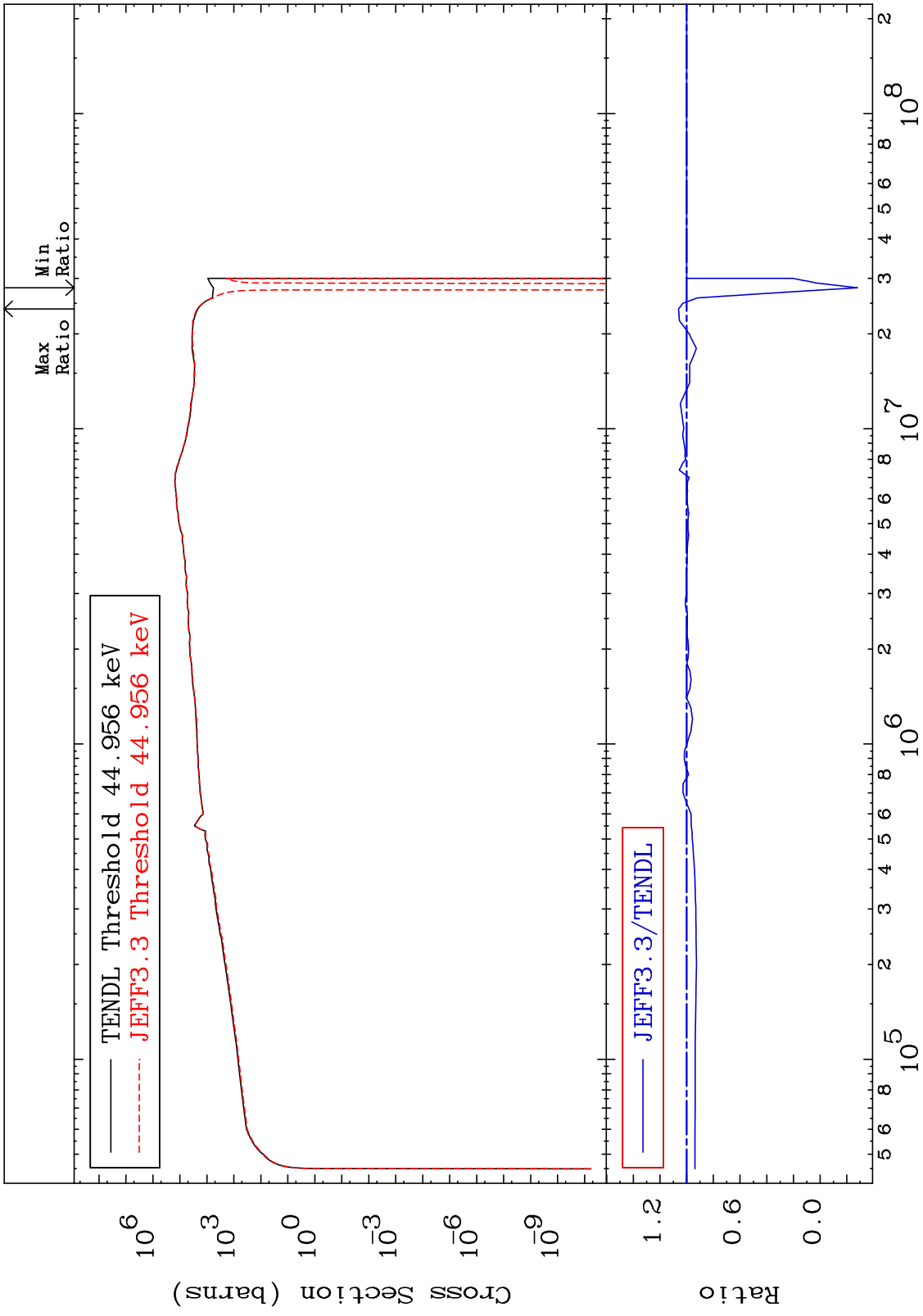
Incident Energy (eV)

71-Lu-174

MAT 7122

Kerma inelastic (mt51-91)
Cross Section

71-Lu-174
-127.9 To 6.041 %



71

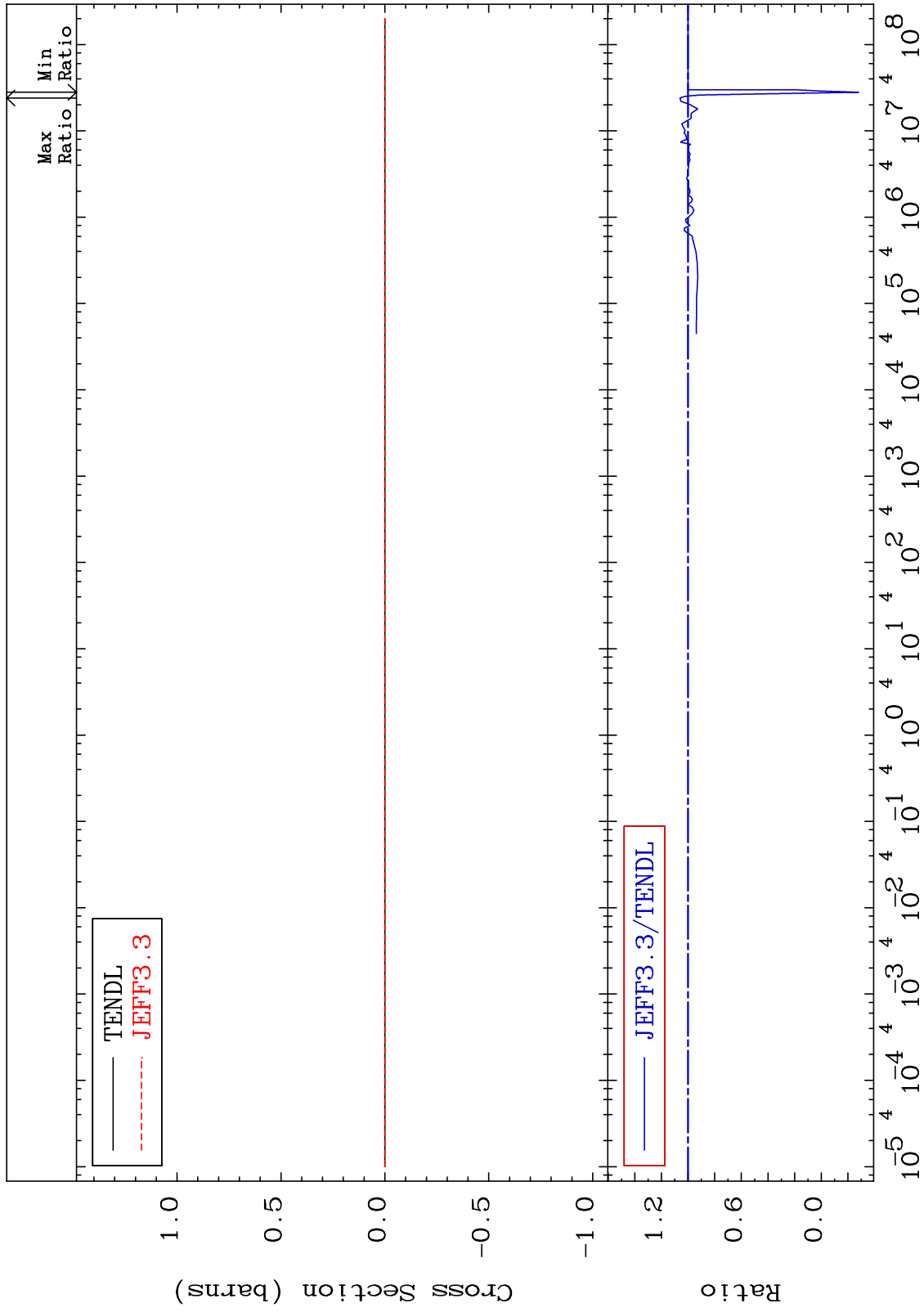
Incident Energy (eV)

71-Lu-174

MAT 7122

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

71-Lu-174
-127.9 To 6.041 %



72

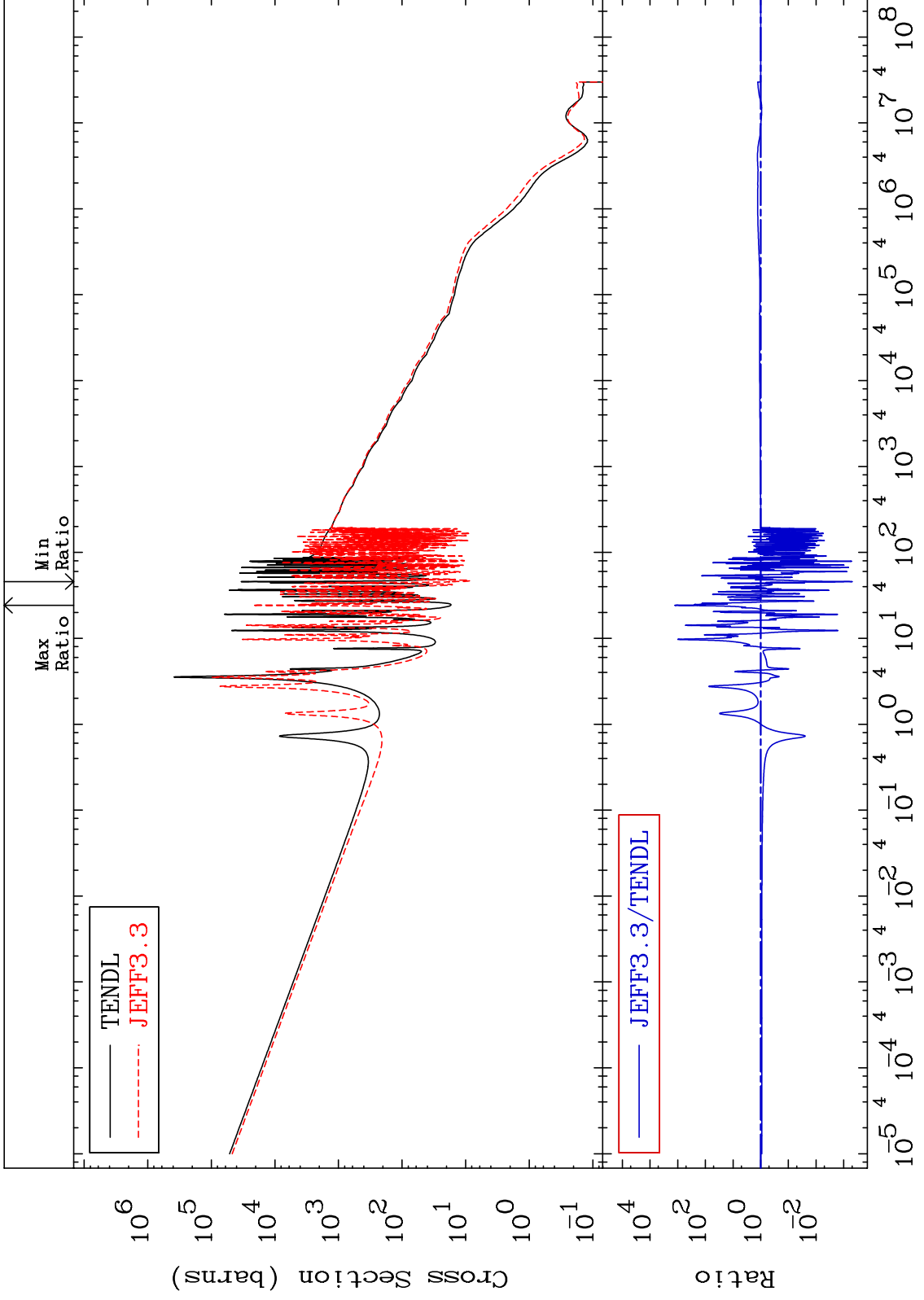
Incident Energy (eV)

71-Lu-174

MAT 7122

Kerma capture (mt102)
Cross Section

71-Lu-174
-99.95 To 9999. %



73

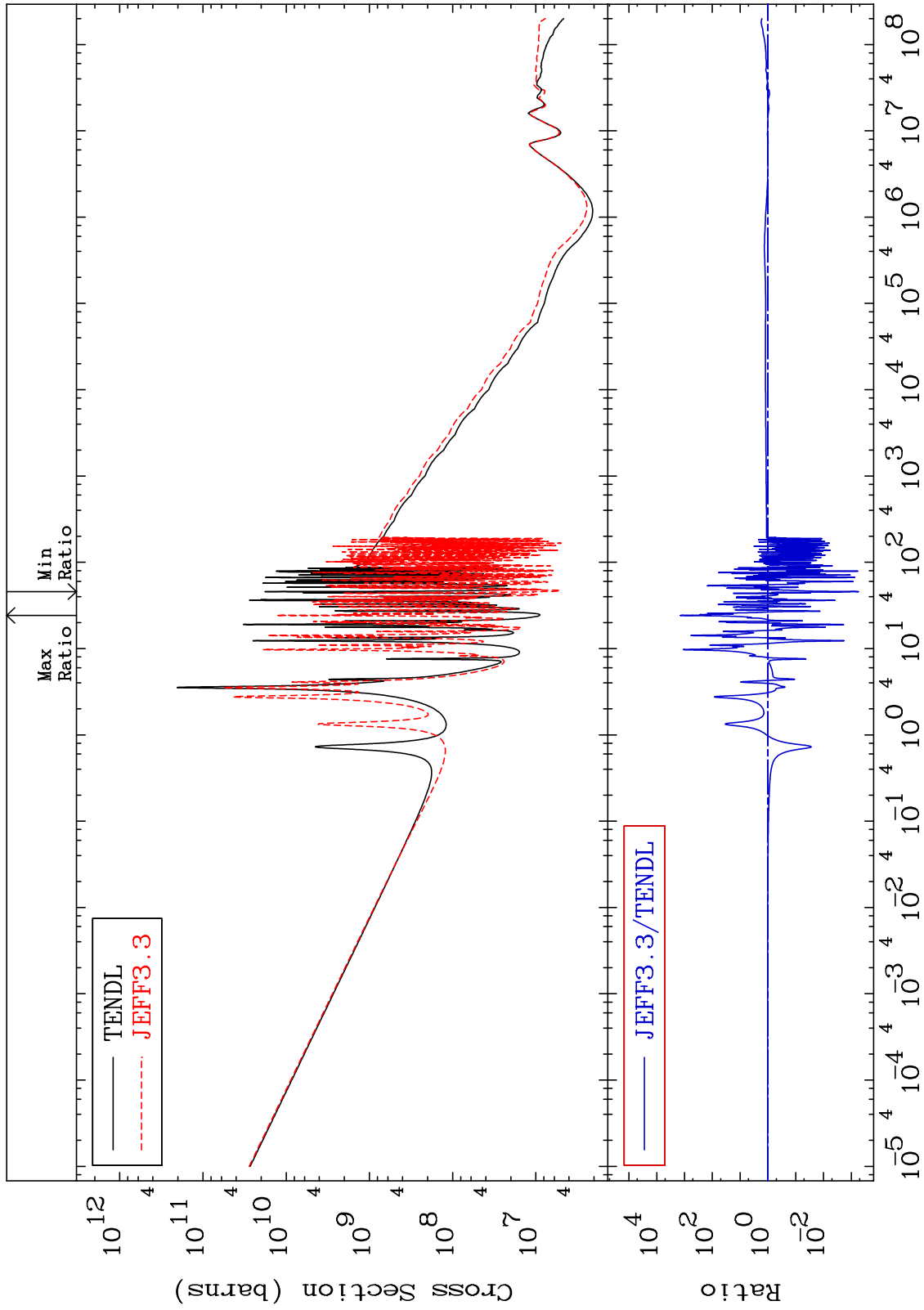
Incident Energy (eV)

71-Lu-174

MAT 7122

Total photon (eV-barns)
Cross Section

71-Lu-174
-99.94 To 9999. %



74

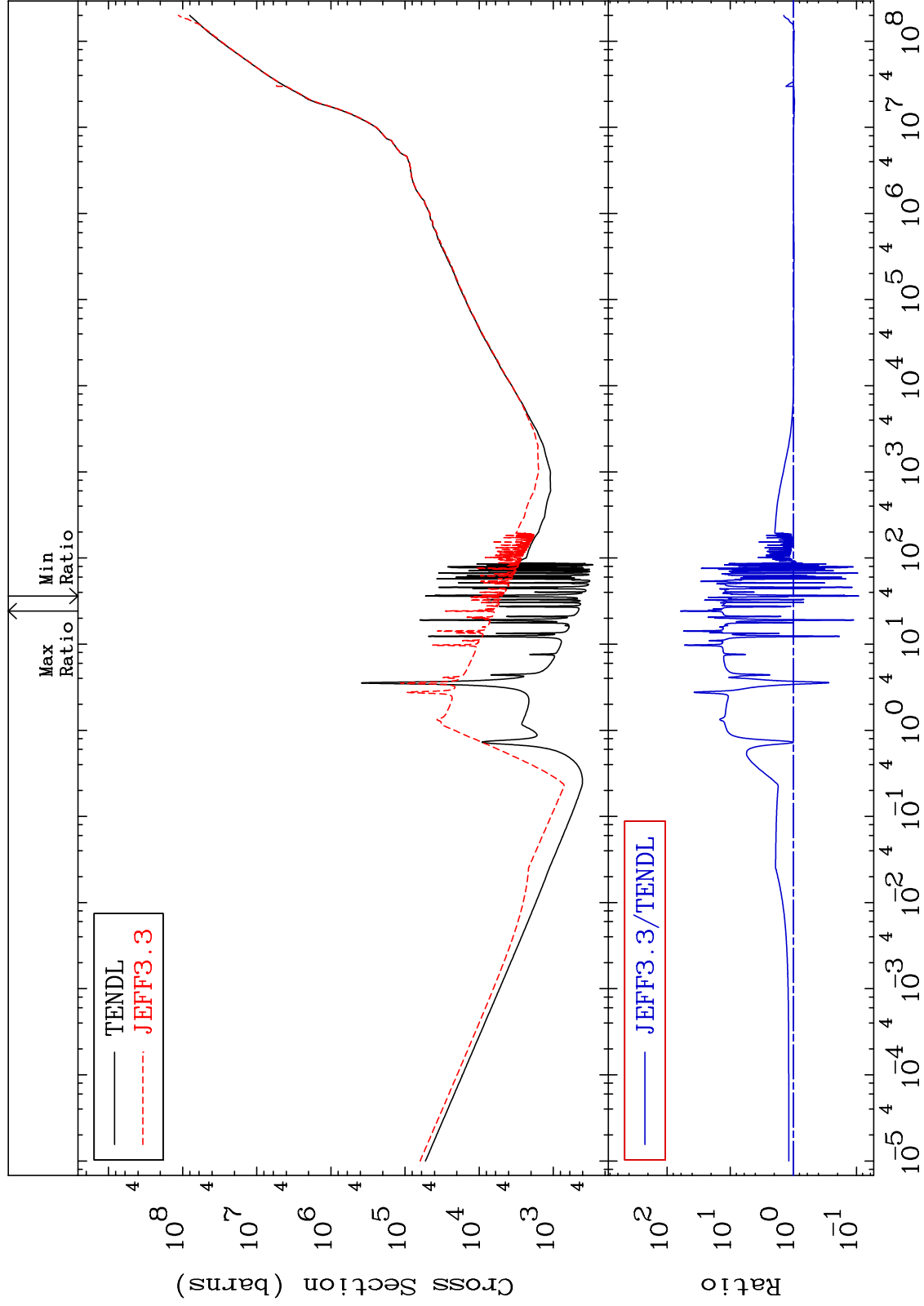
Incident Energy (eV)

71-Lu-174

MAT 7122

Total kinematic kerma (high limit)
Cross Section

71-Lu-174
-90.71 To 6029. %



75

Incident Energy (eV)

71-Lu-174

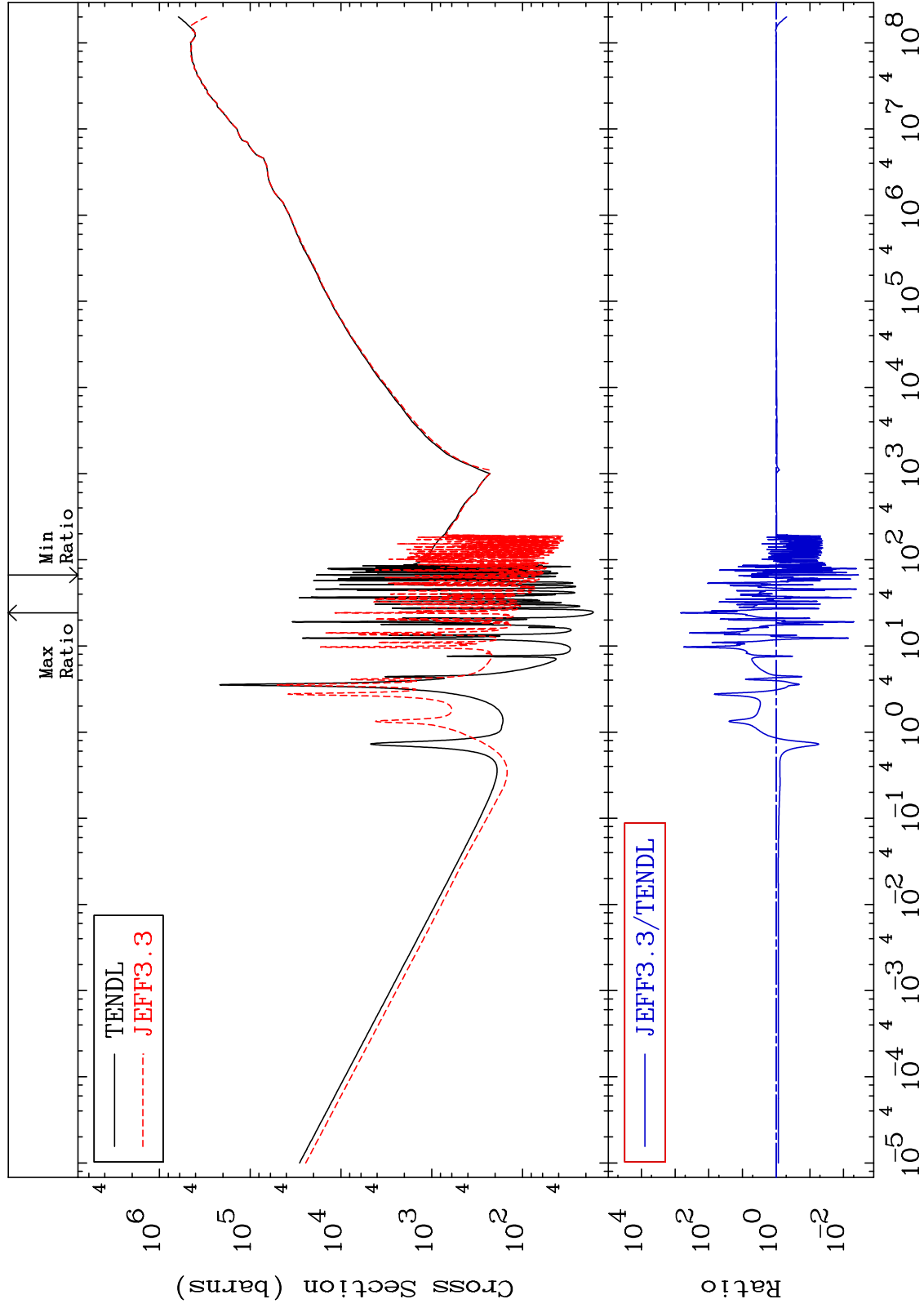
MAT 7122

Dpa total (eV-barns)

71-Lu-174

-99.64 To 9999. %

Cross Section



76

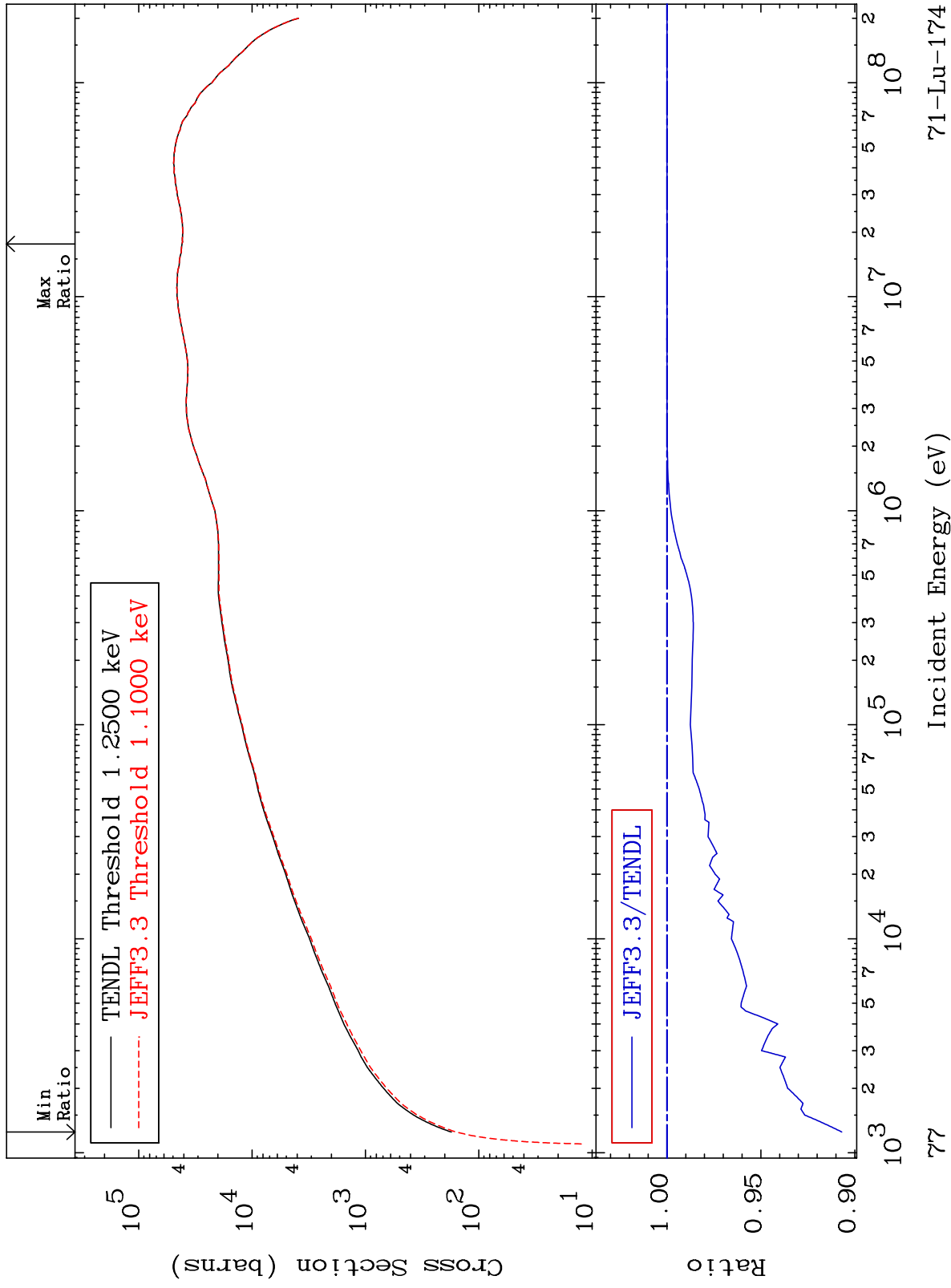
Incident Energy (eV)

71-Lu-174

MAT 7122

Dpa elastic (mt2)
Cross Section

71-Lu-174
-9.309 To 0.004 %



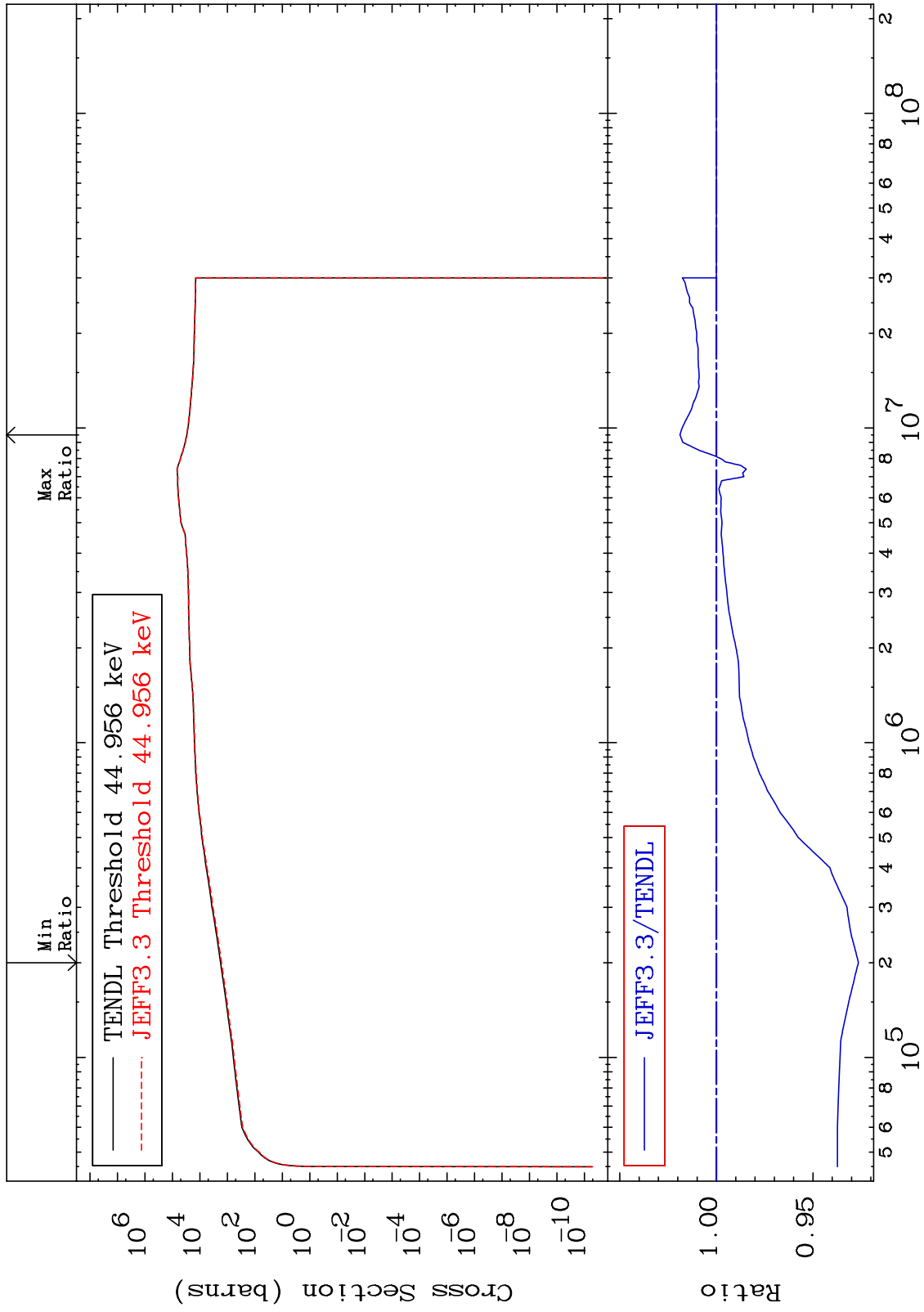
71-Lu-174

77

MAT 7122

Dpa inelastic (mt51-91)
Cross Section

71-Lu-174
-7.353 To 1.884 %



78

Incident Energy (eV)

71-Lu-174

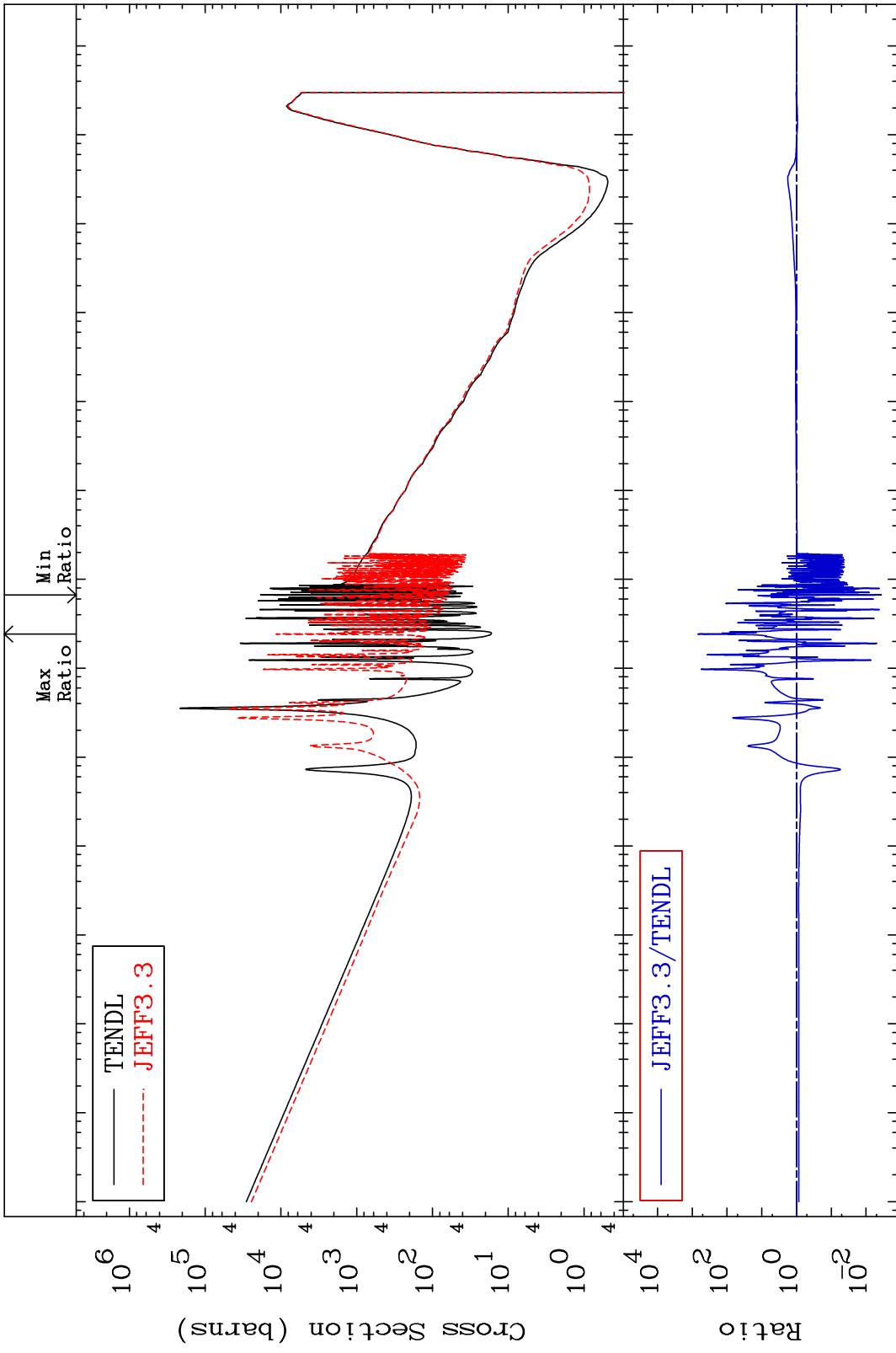
MAT 7122

Dpa disappearance (mt102 -120)

71-Lu-174

-99.64 To 9999. %

Cross Section



79

Incident Energy (eV)

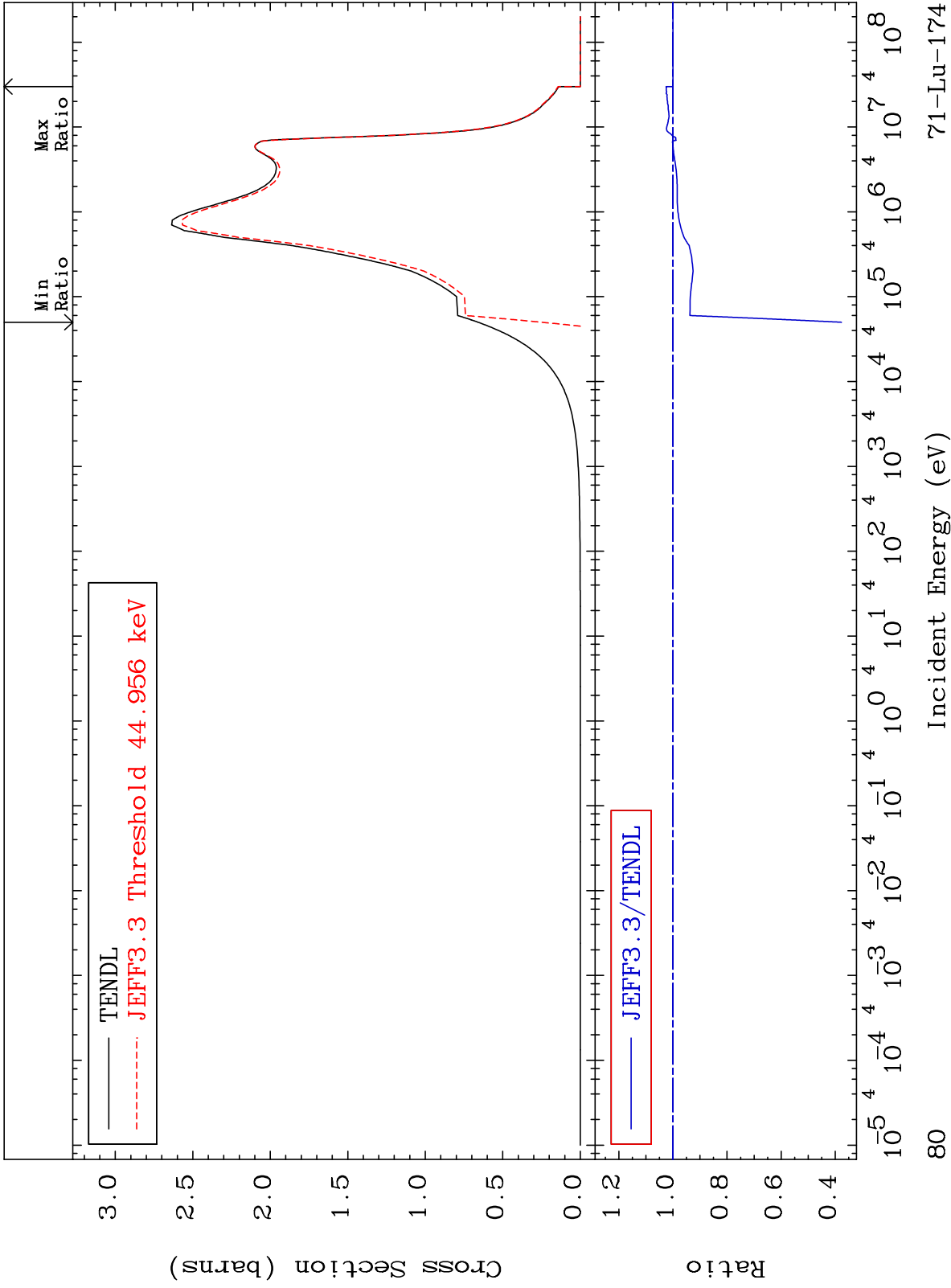
71-Lu-174

MAT 7122

Inelastic: 71-Lu-174g

71-Lu-174

Radionuclide Production Cross Section -62.29 To 2.514 %



80

Incident Energy (eV)

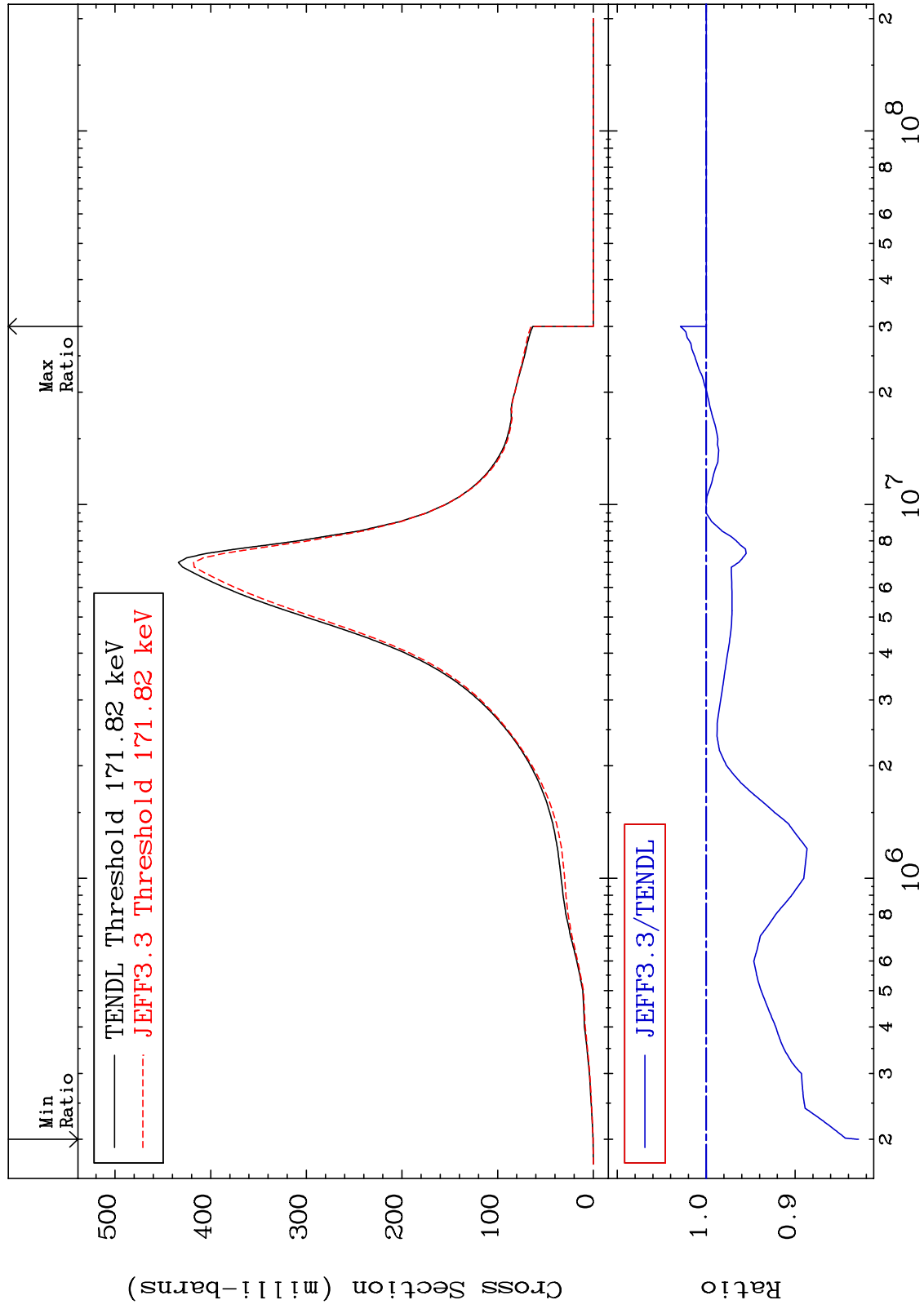
71-Lu-174

MAT 7122

Inelastic:71-Lu-174m3

71-Lu-174

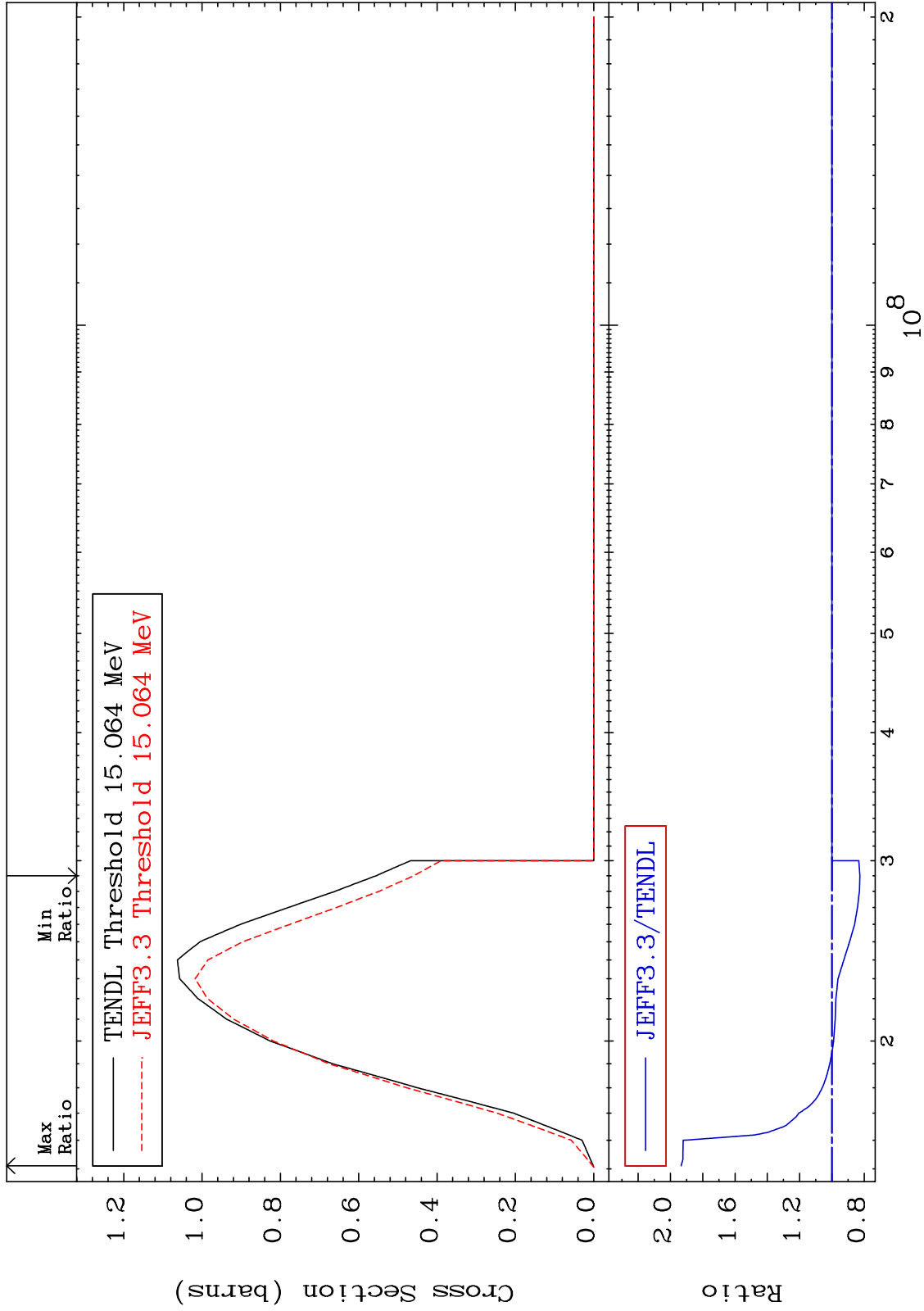
Radionuclide Production Cross Section -17.13 To 2.900 %



81

71-Lu-174

71-Lu-174

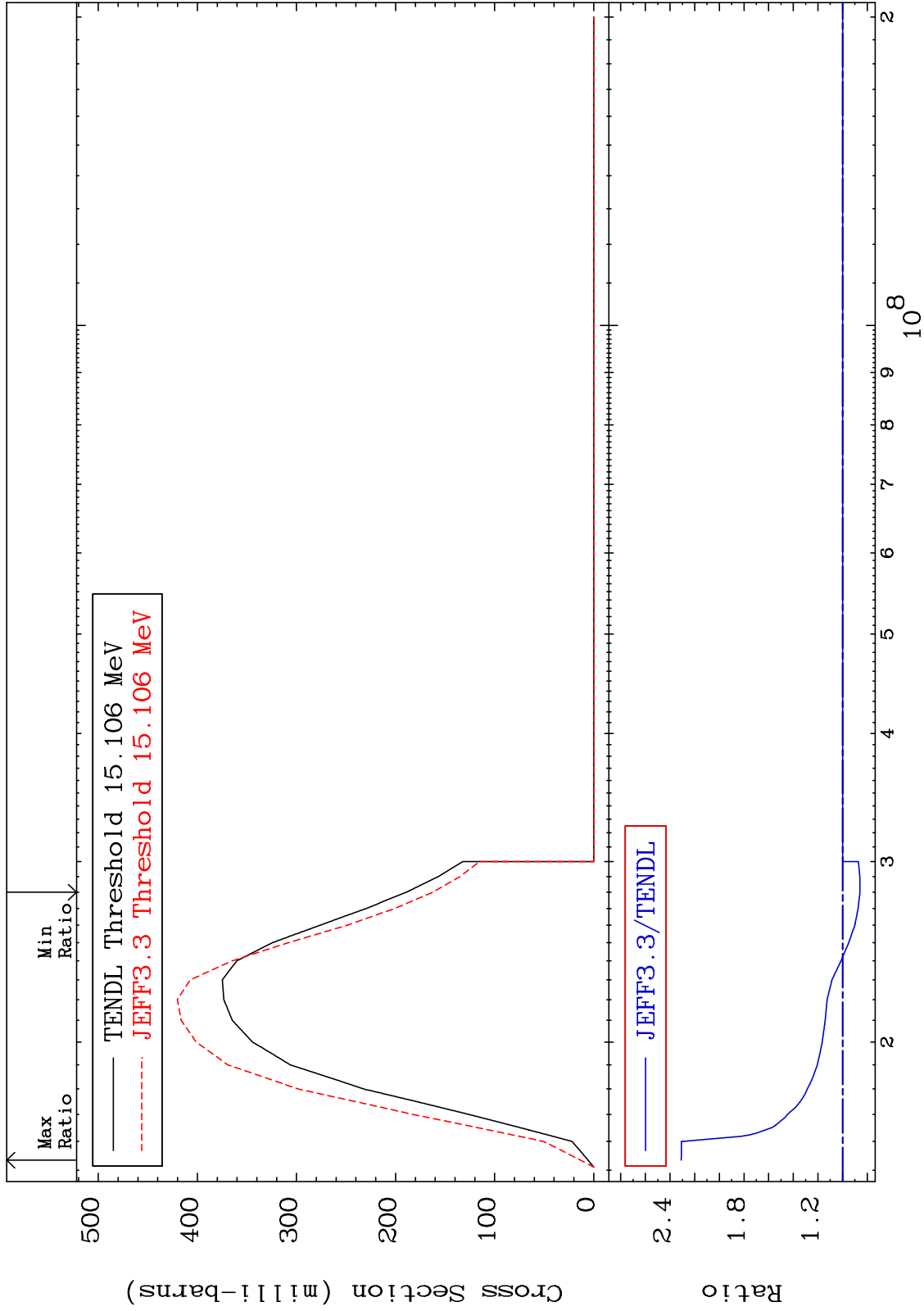


MAT 7122

(n, 3n): 71-Lu-172m1

71-Lu-174

Radionuclide Production Cross Section -14.07 To 130.9 %

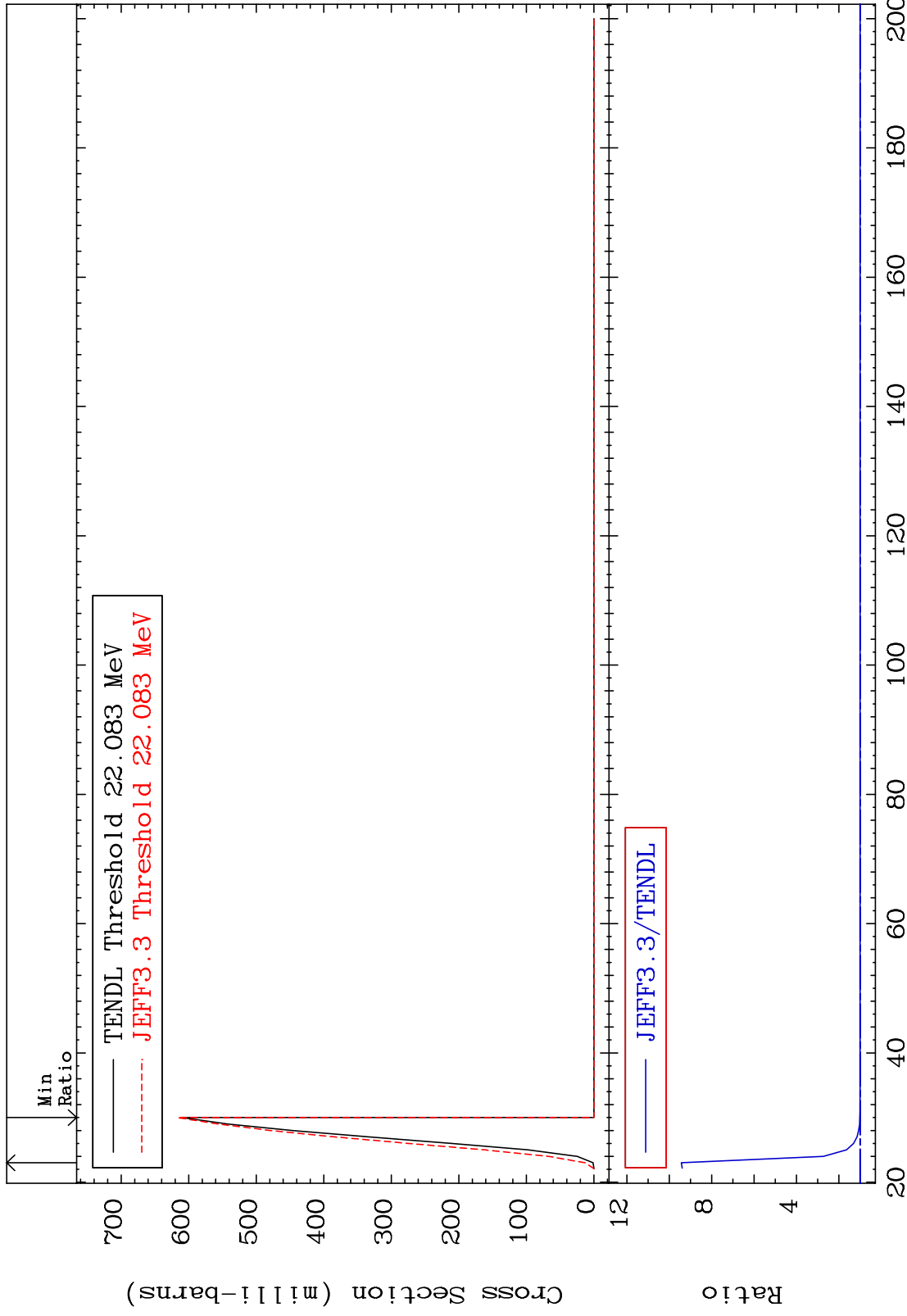


MAT 7122

(n,4n):71-Lu-171g

71-Lu-174

Radionuclide Production Cross Section 0.000 To 842.6 %

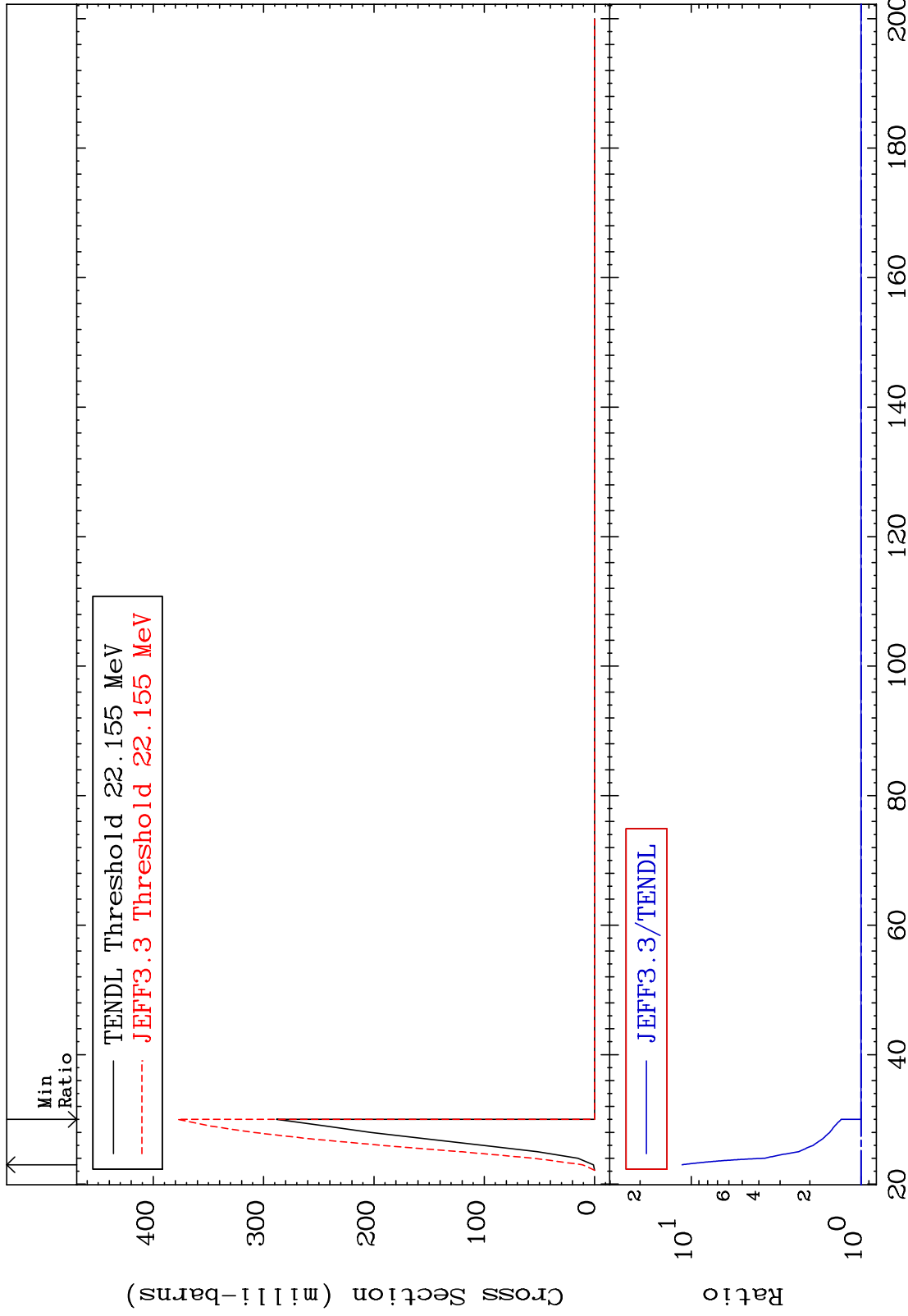


MAT 7122

(n, 4n): 71-Lu-171m1

71-Lu-174

Radionuclide Production Cross Section 0.000 To 1030. %



85

Incident Energy (MeV)

71-Lu-174