

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

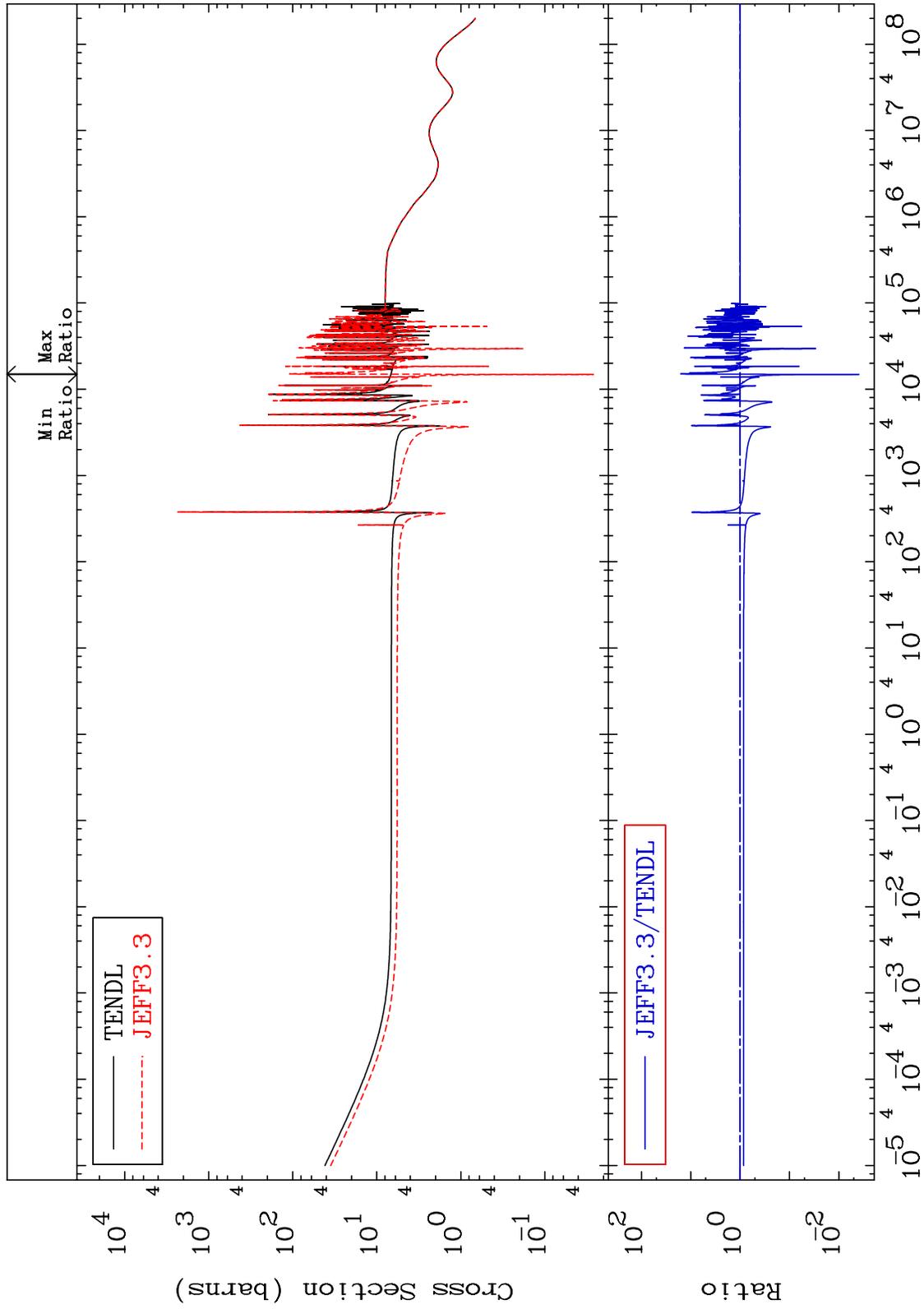
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 3731

Elastic
Cross Section

37-Rb-87
-99.61 To 1509. %

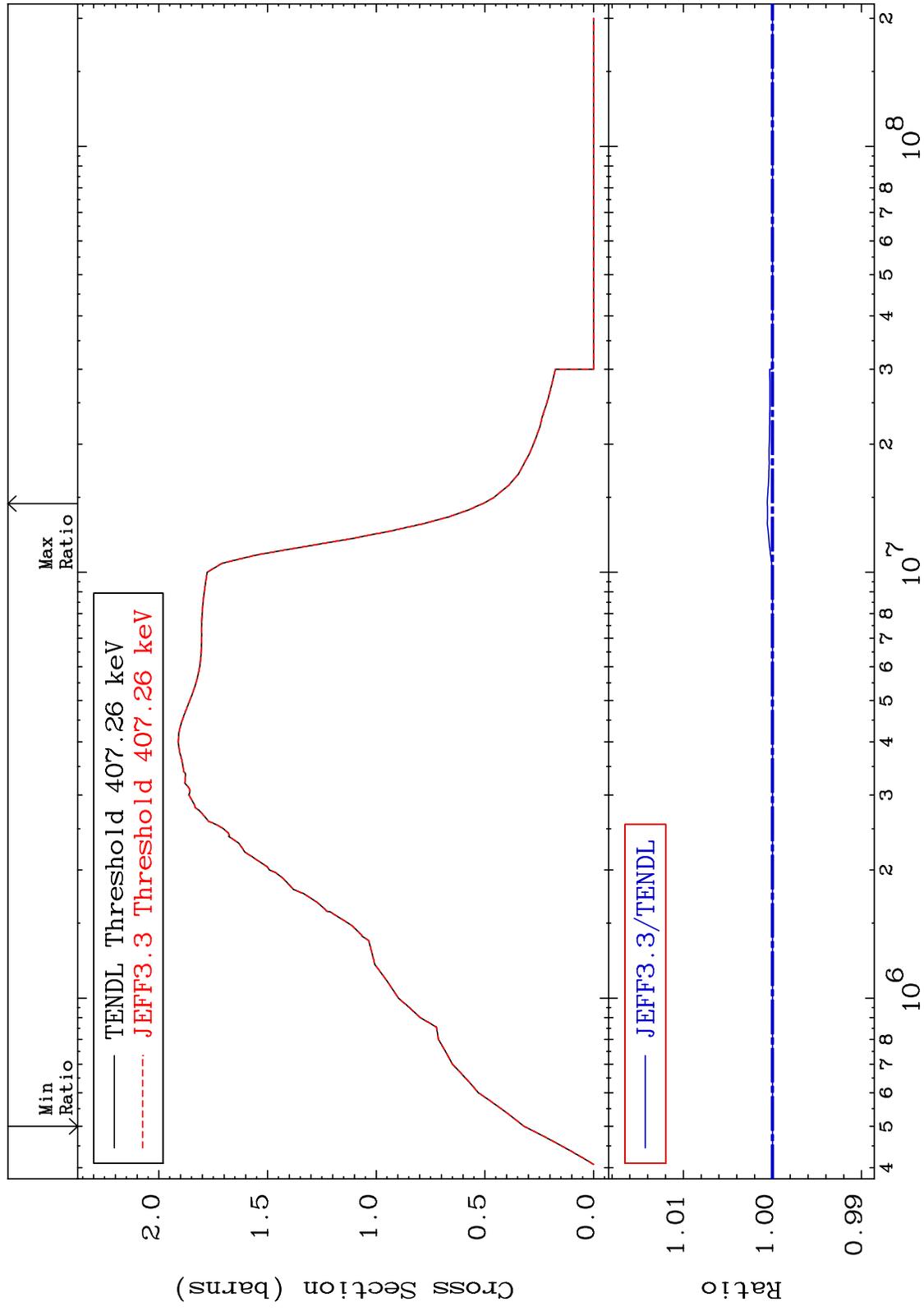


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Incident Energy (eV)

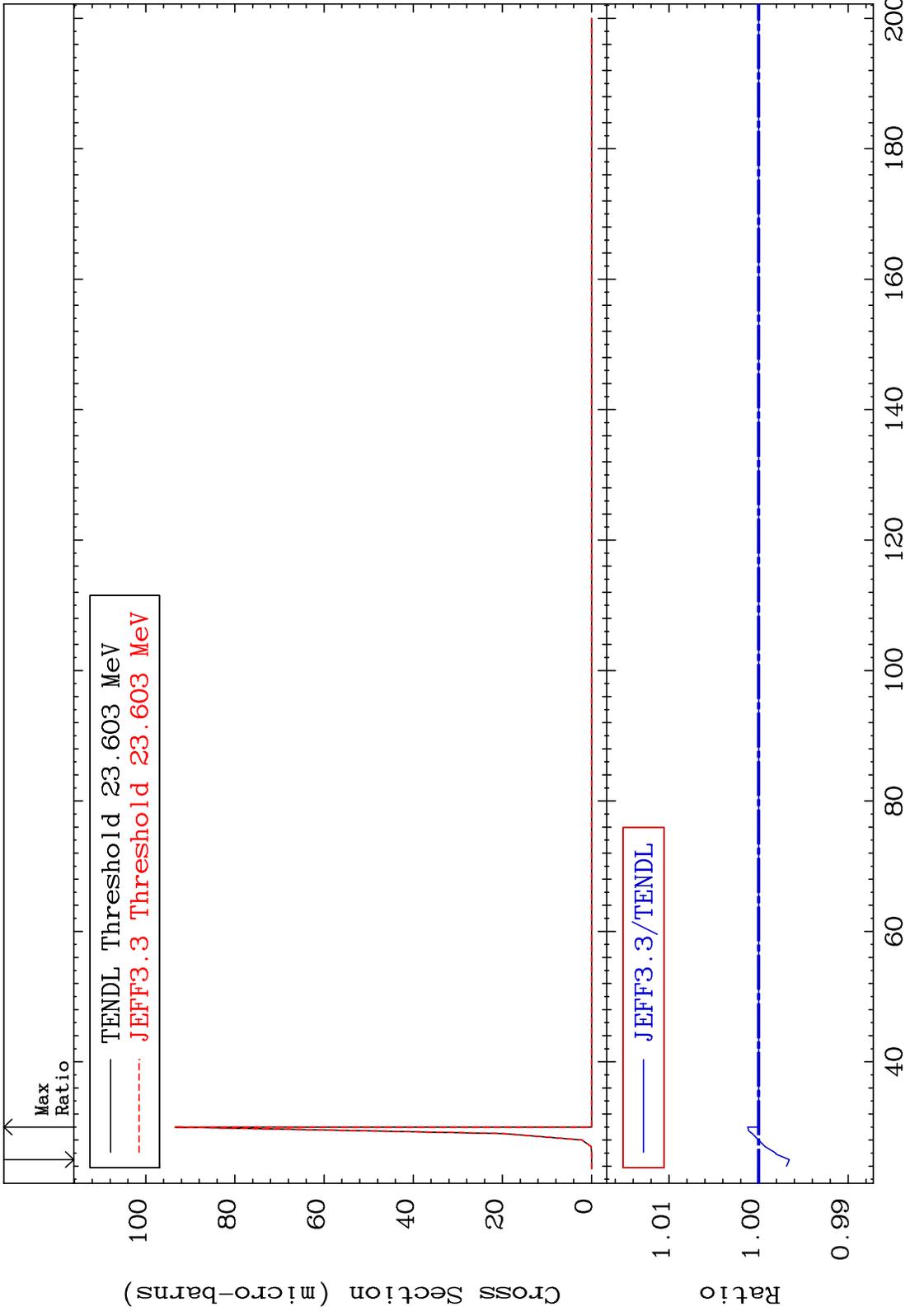
37-Rb-87

MAT 3731 37-Rb-87 Inelastic Cross Section -0.002 To 0.058 % 37-Rb-87



3 37-Rb-87

MAT 3731 (n,2n) d 37-Rb-87
 Cross Section -0.344 To 0.121 %



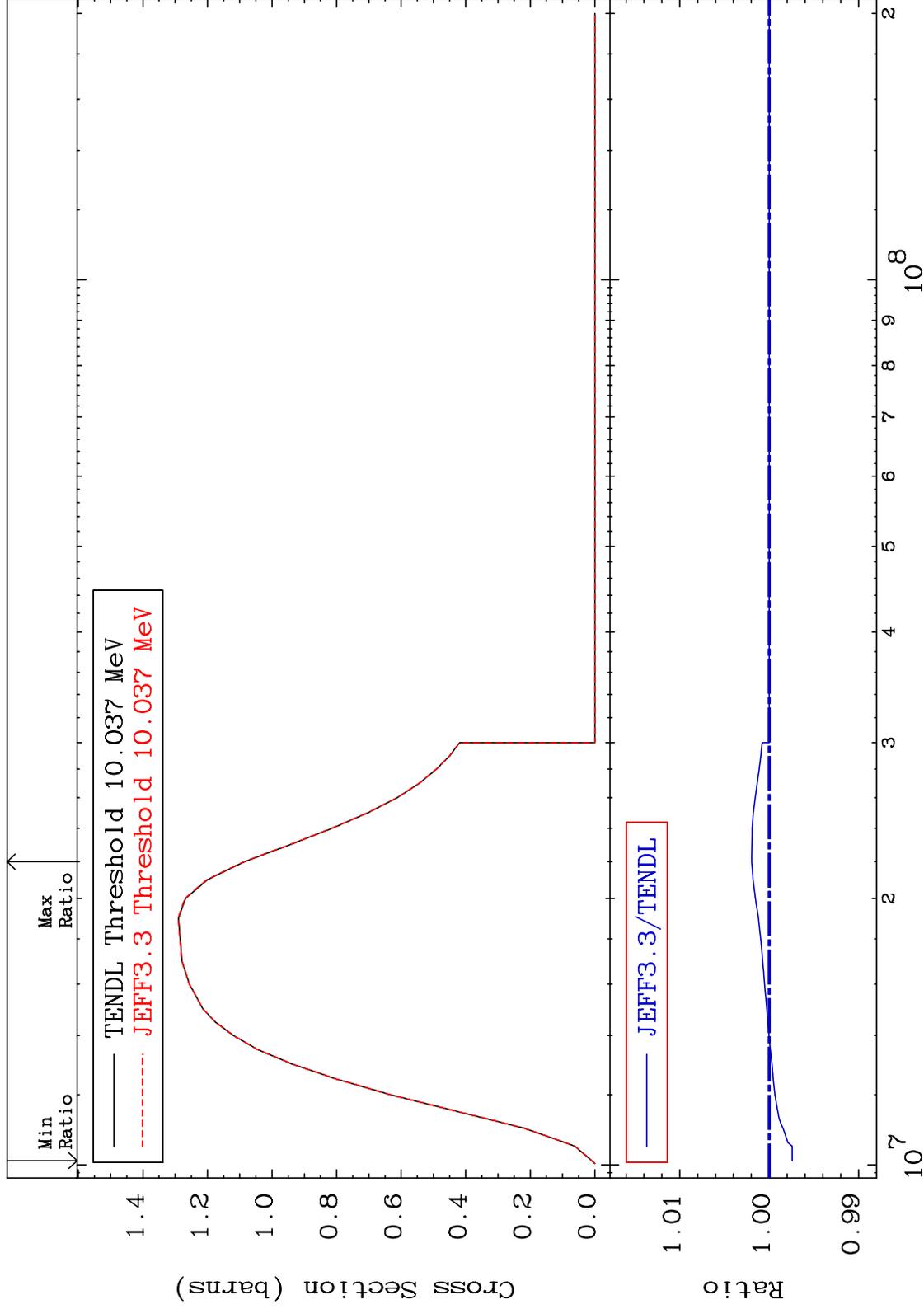
MAT 3731

(n,2n)

³⁷Rb-87

Cross Section

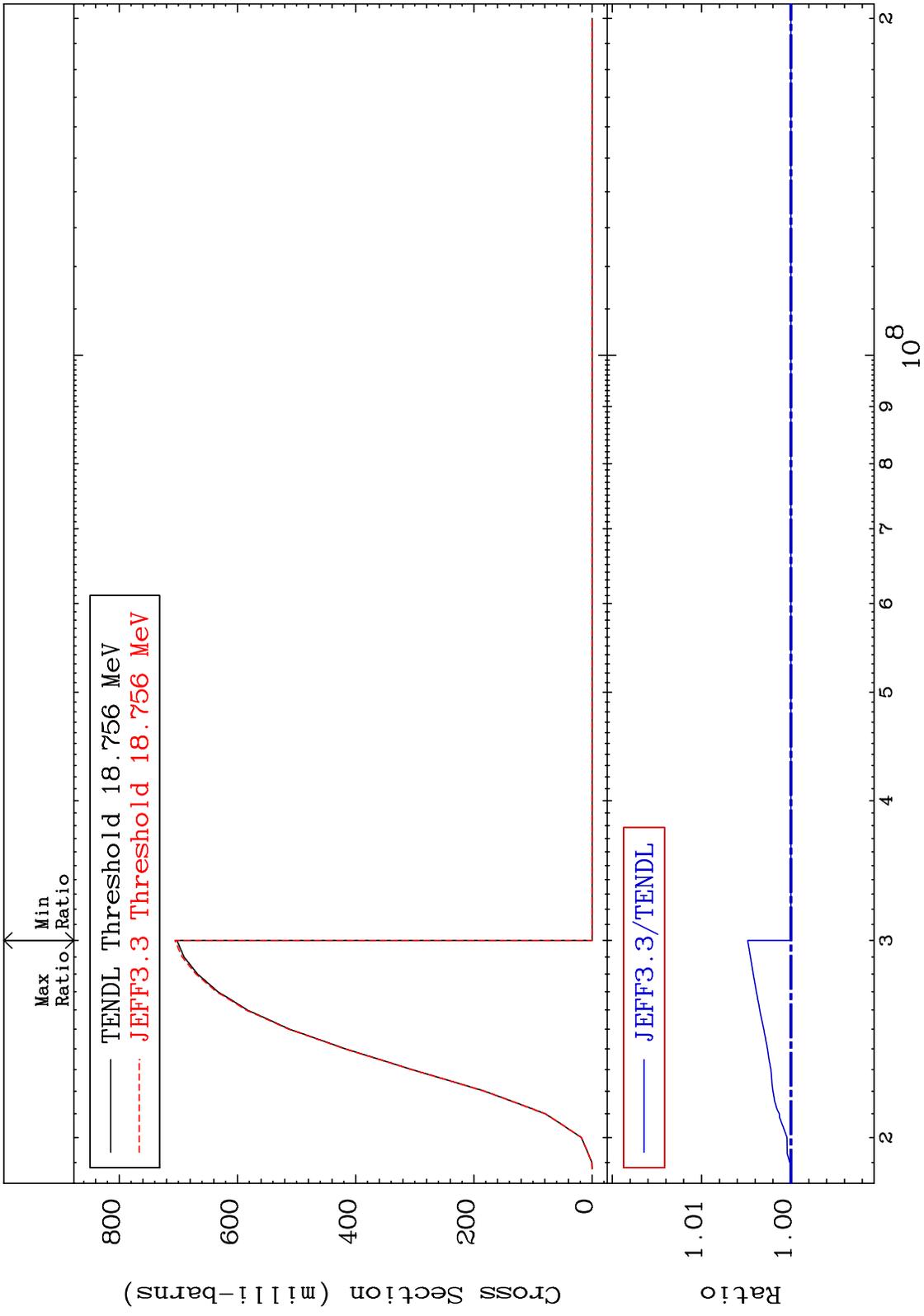
-0.256 To 0.196 %



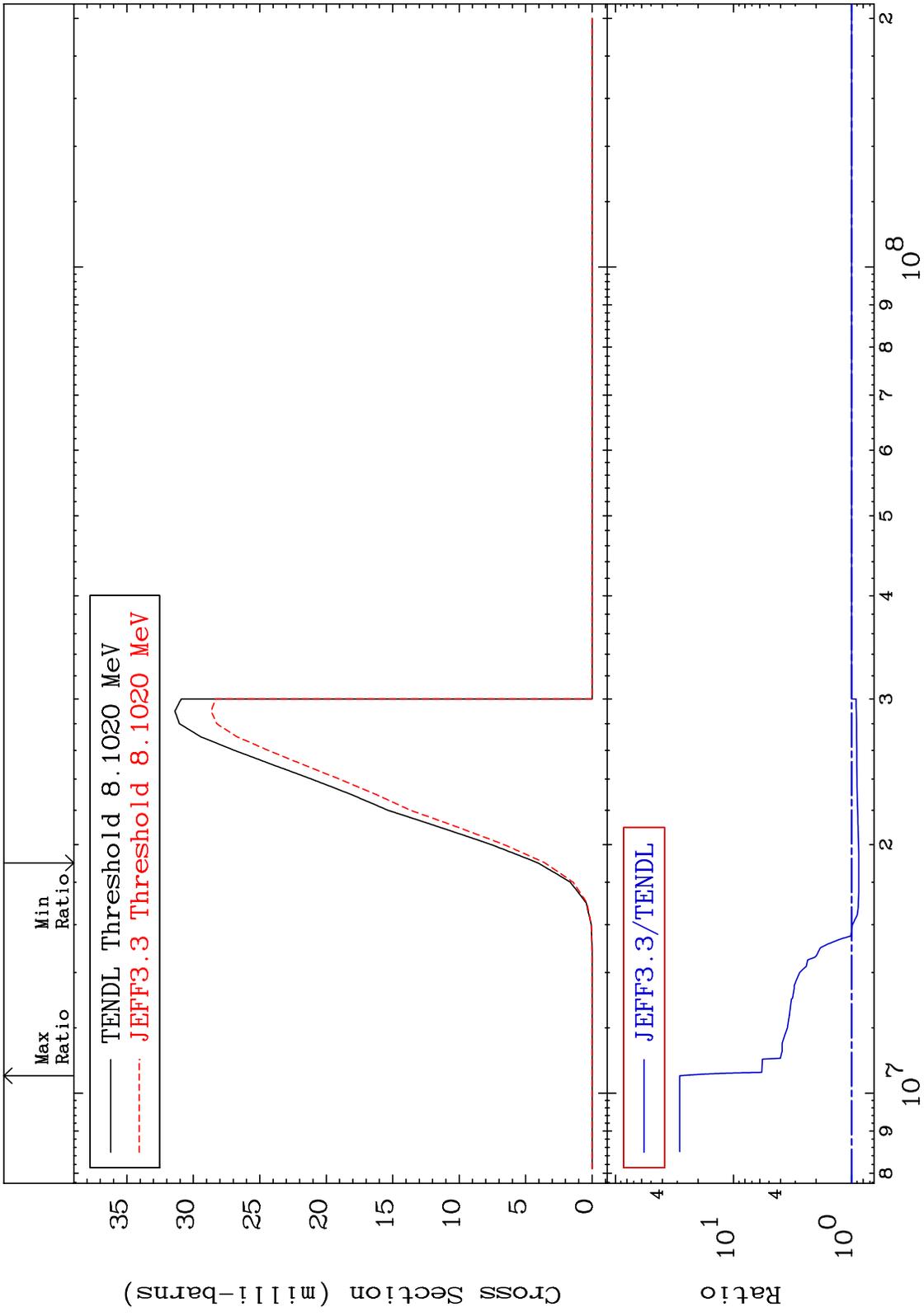
Incident Energy (eV)

³⁷Rb-87

MAT 3731 $(n, 3n)$ Cross Section $^{37}\text{Rb-87}$ T_0 0.484 %

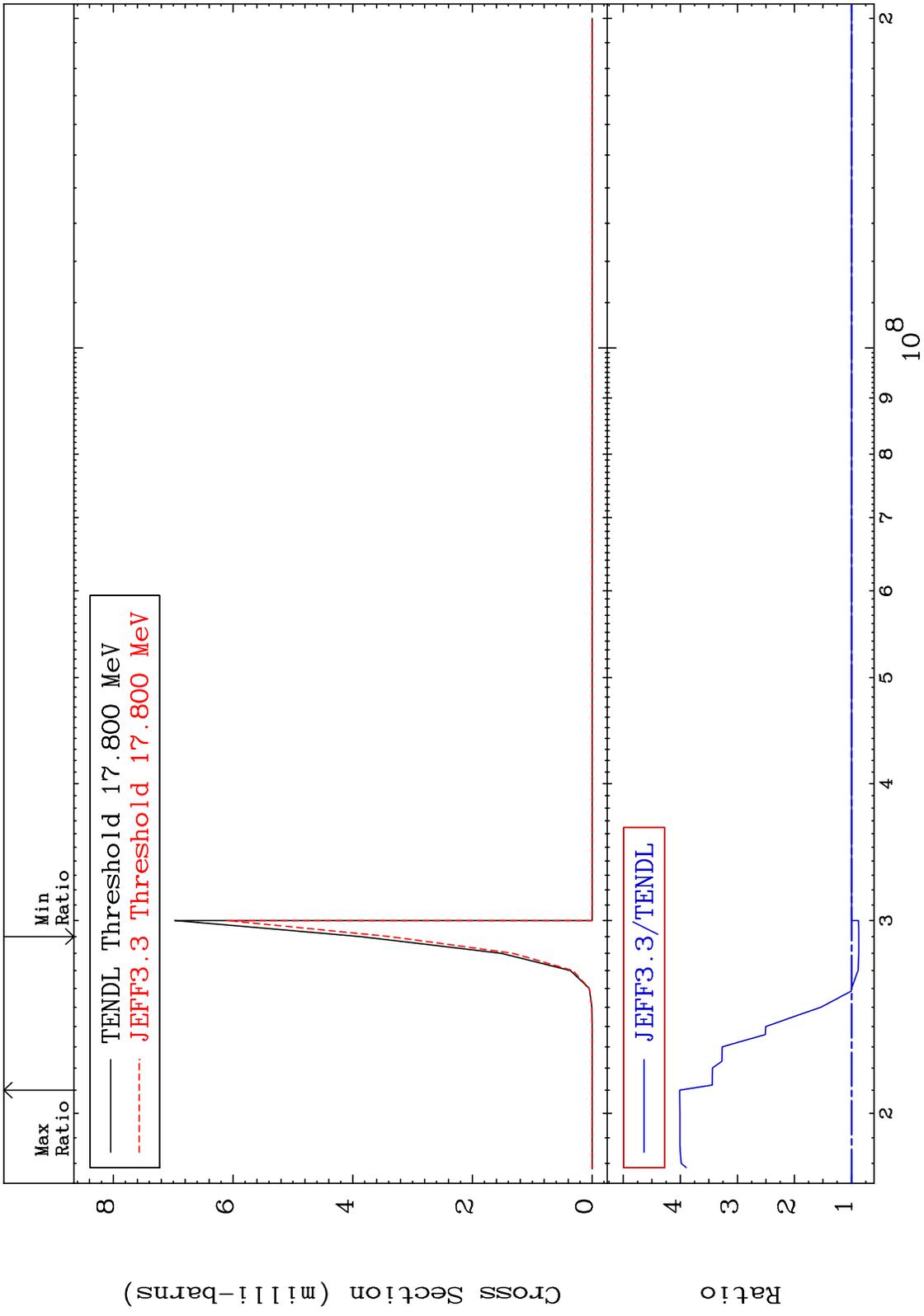


MAT 3731 $(n, n') \alpha$ 37-Rb-87
 Cross Section -13.07 To 2754. %

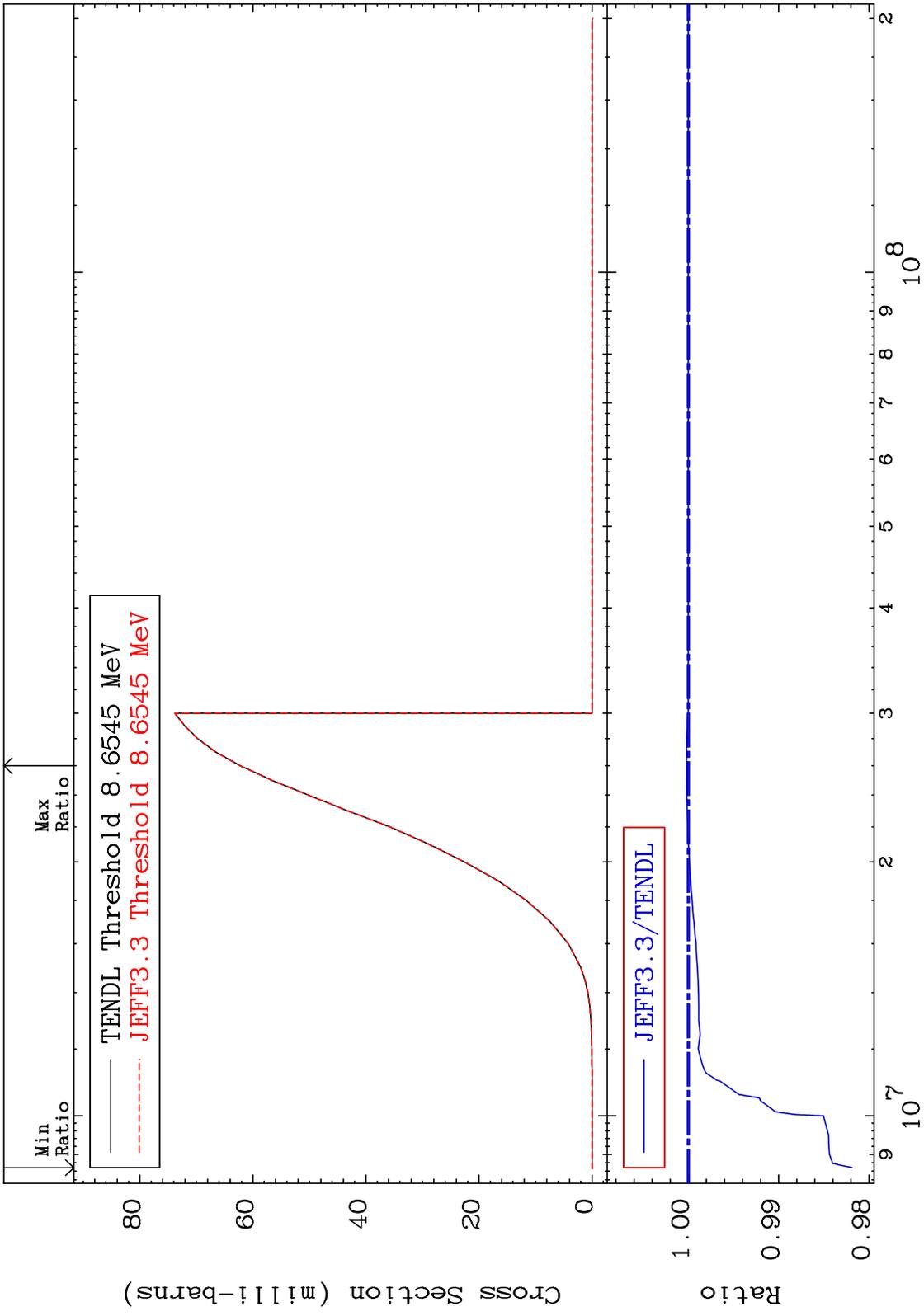


37-Rb-87

MAT 3731 $(n, 2n) \alpha$ $^{37}\text{Rb-87}$
 Cross Section -12.90 To 301.0 %



MAT 3731 (n, n') p $^{37}\text{Rb-87}$
 Cross Section -1.814 To 0.021 %



37-Rb-87

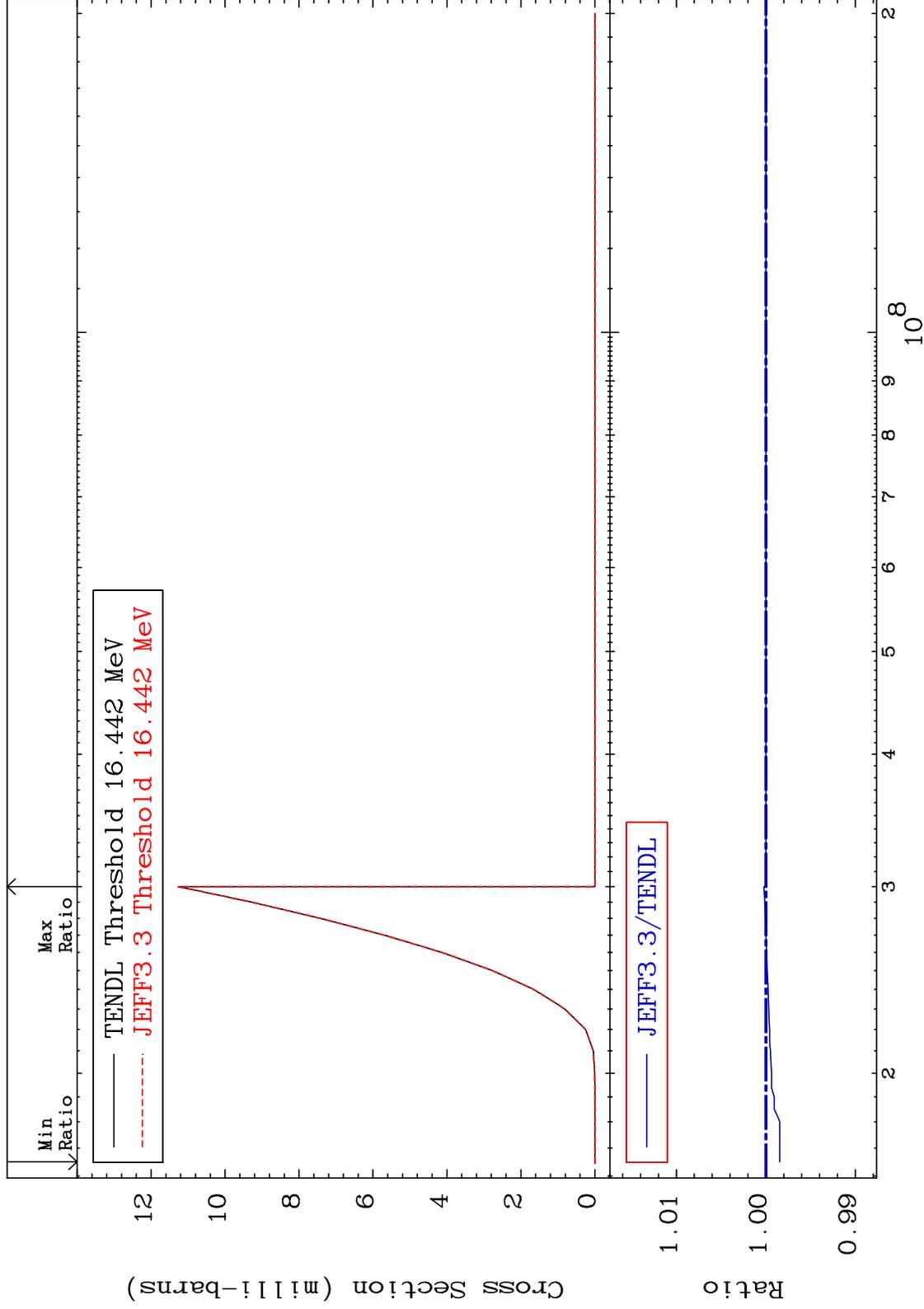
MAT 3731

(n, n') d

37-Rb-87

Cross Section

-0.156 To 0.021 %

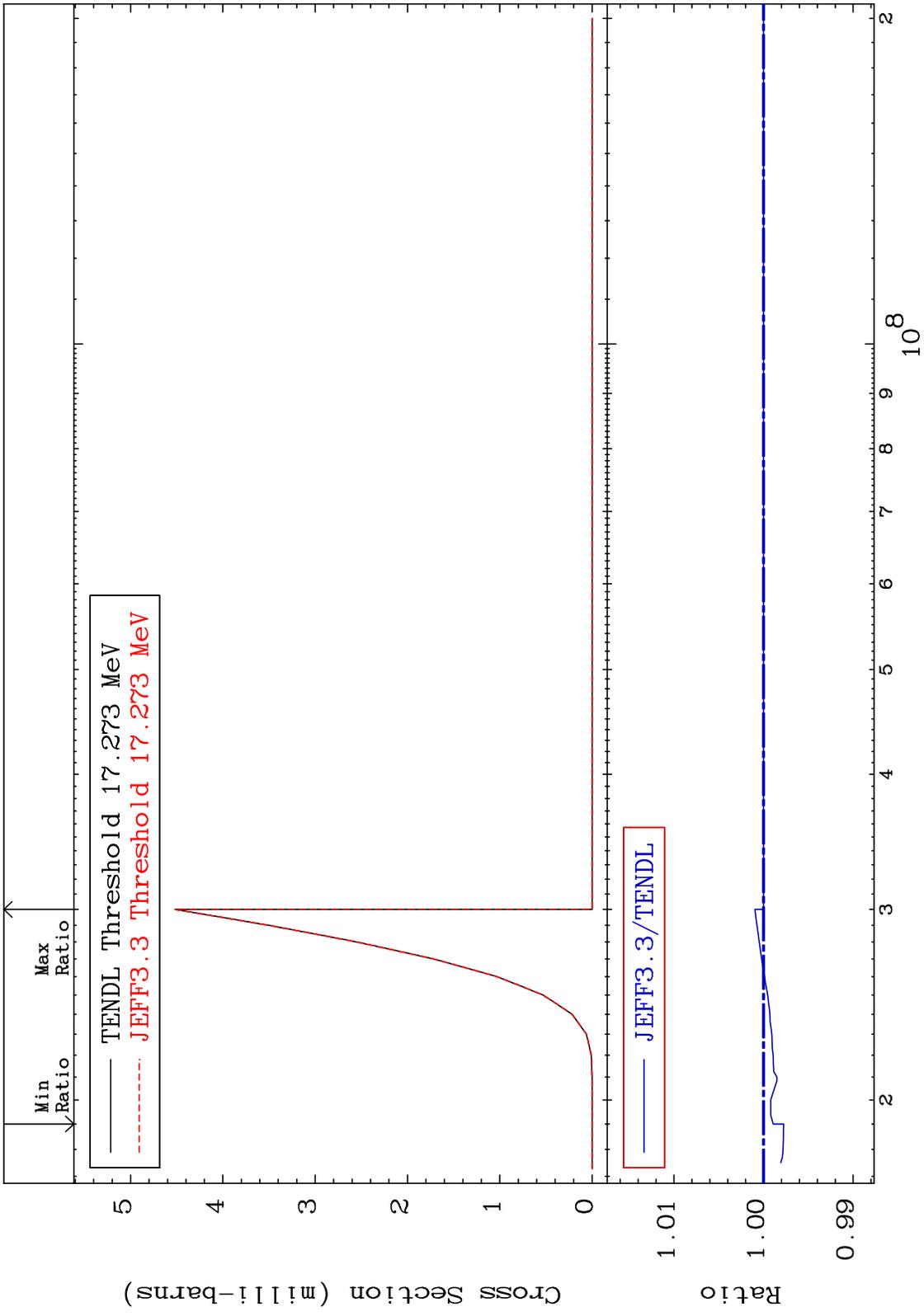


10

Incident Energy (eV)

37-Rb-87

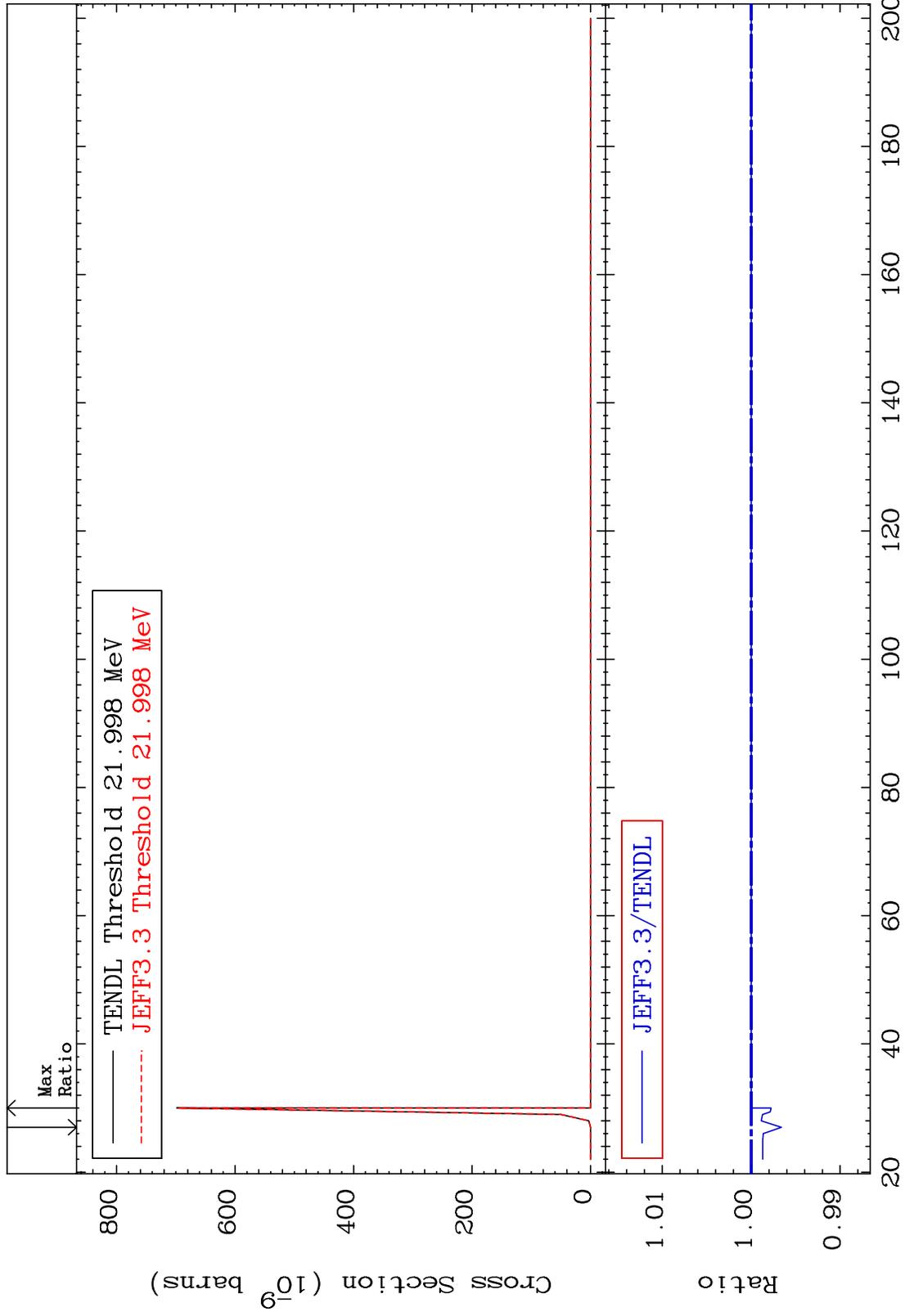
MAT 3731 (n,n') t 37-Rb-87
 Cross Section -0.223 To 0.096 %

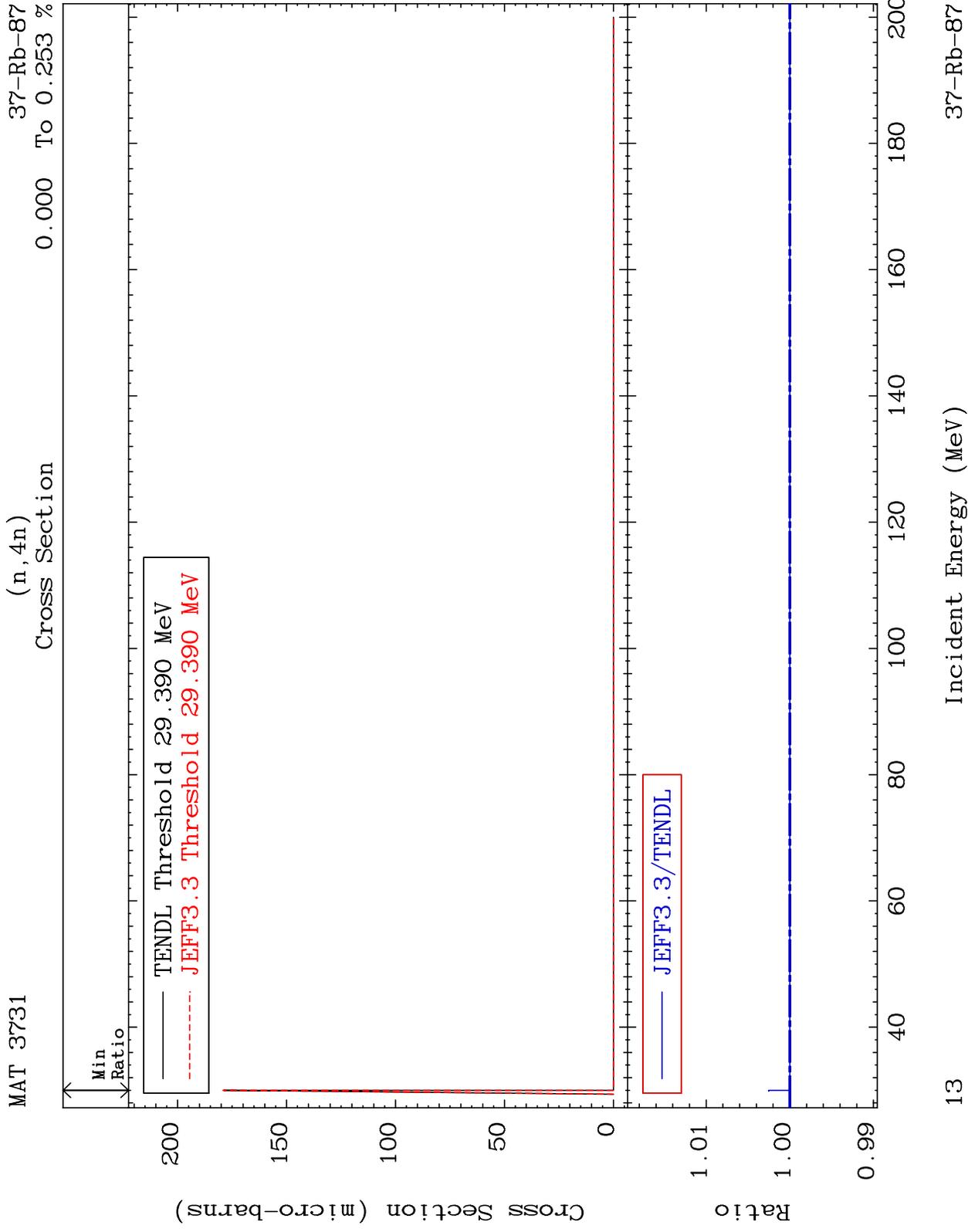


MAT 3731

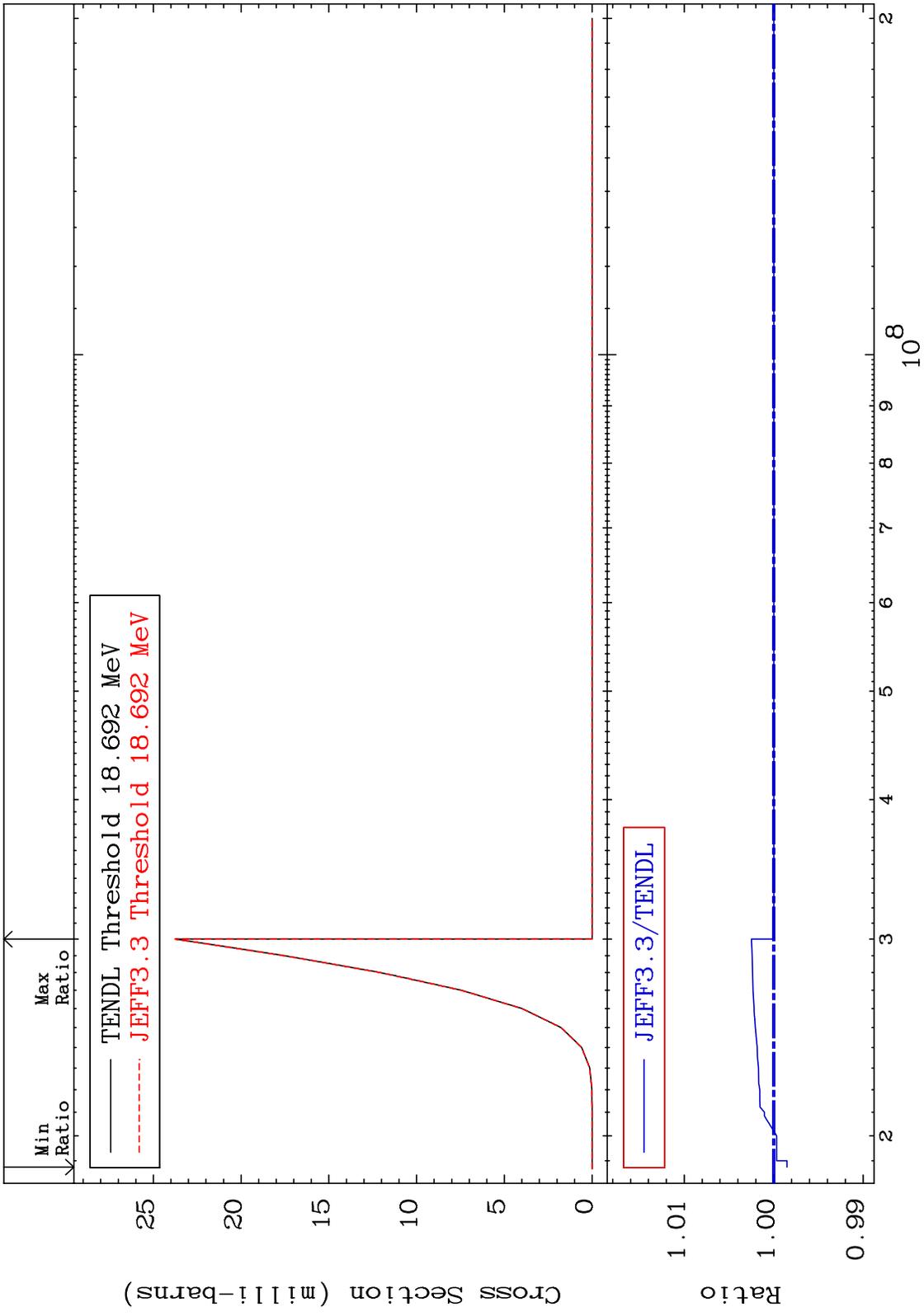
(n, n') He-3
Cross Section

37-Rb-87
-0.339 To 0.000 %

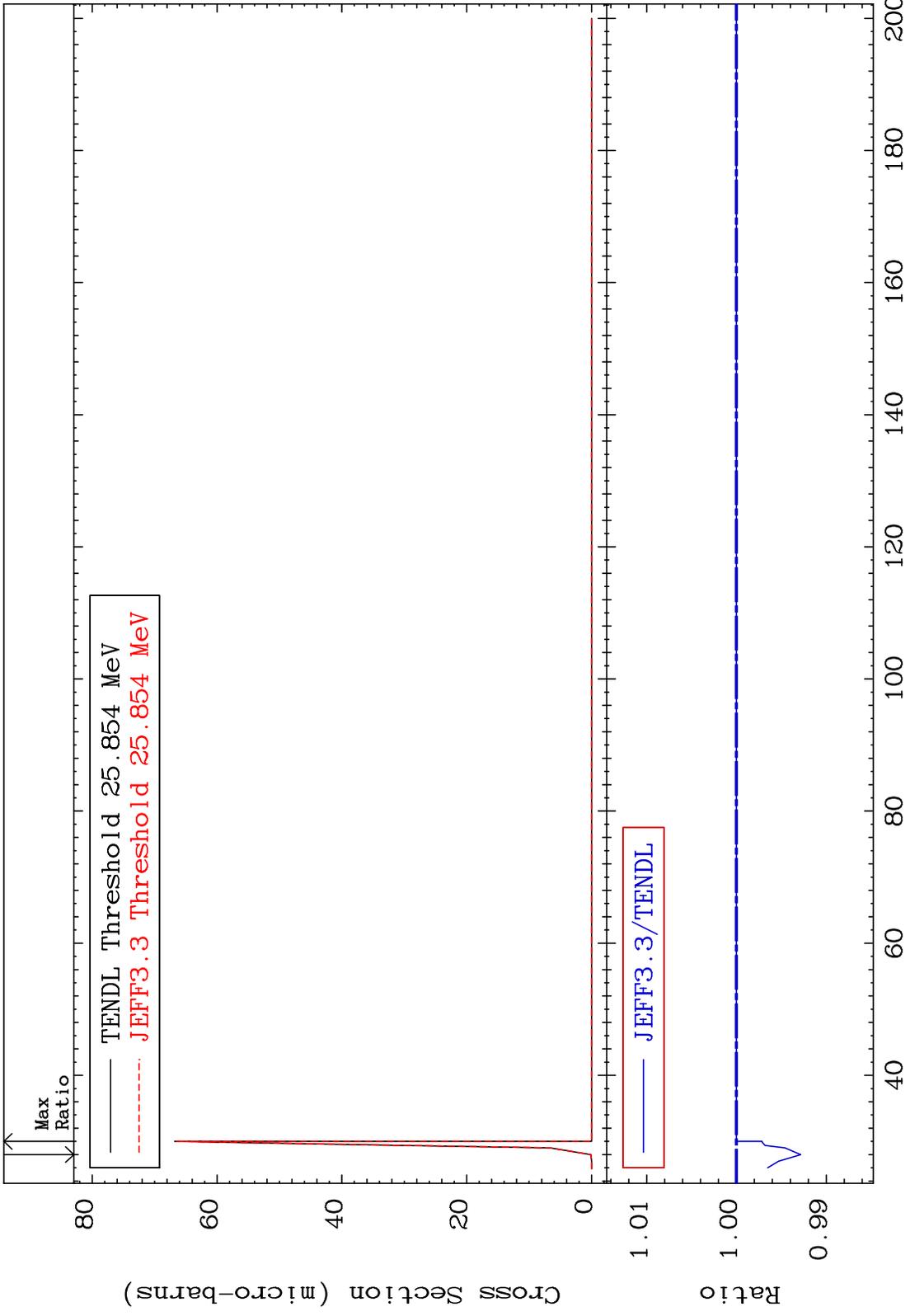




MAT 3731 $(n, 2n)$ p $^{37}\text{Rb-87}$
 Cross Section -0.149 To 0.248 %



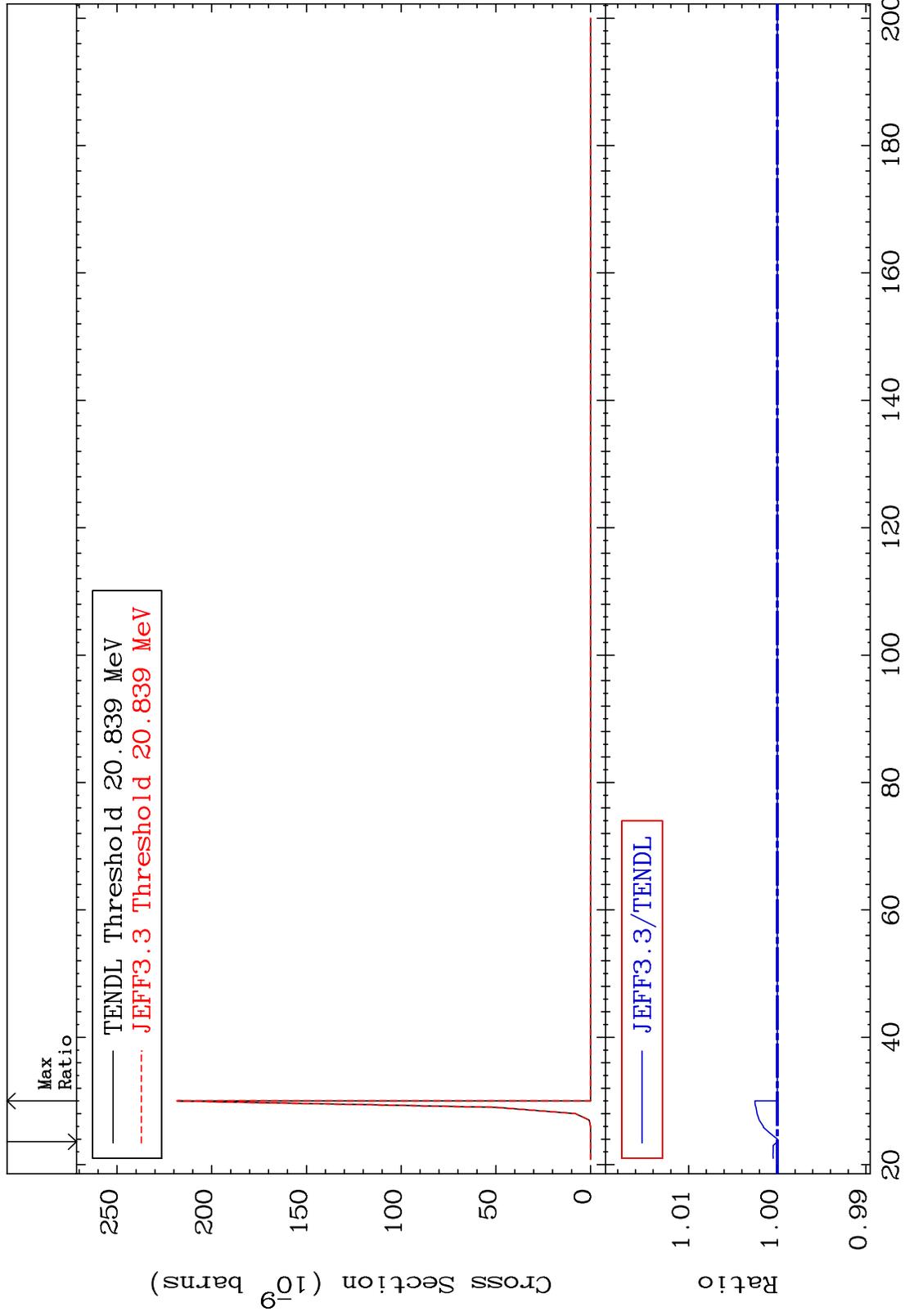
MAT 3731 (n,3n) p 37-Rb-87
 Cross Section -0.716 To 0.000 %



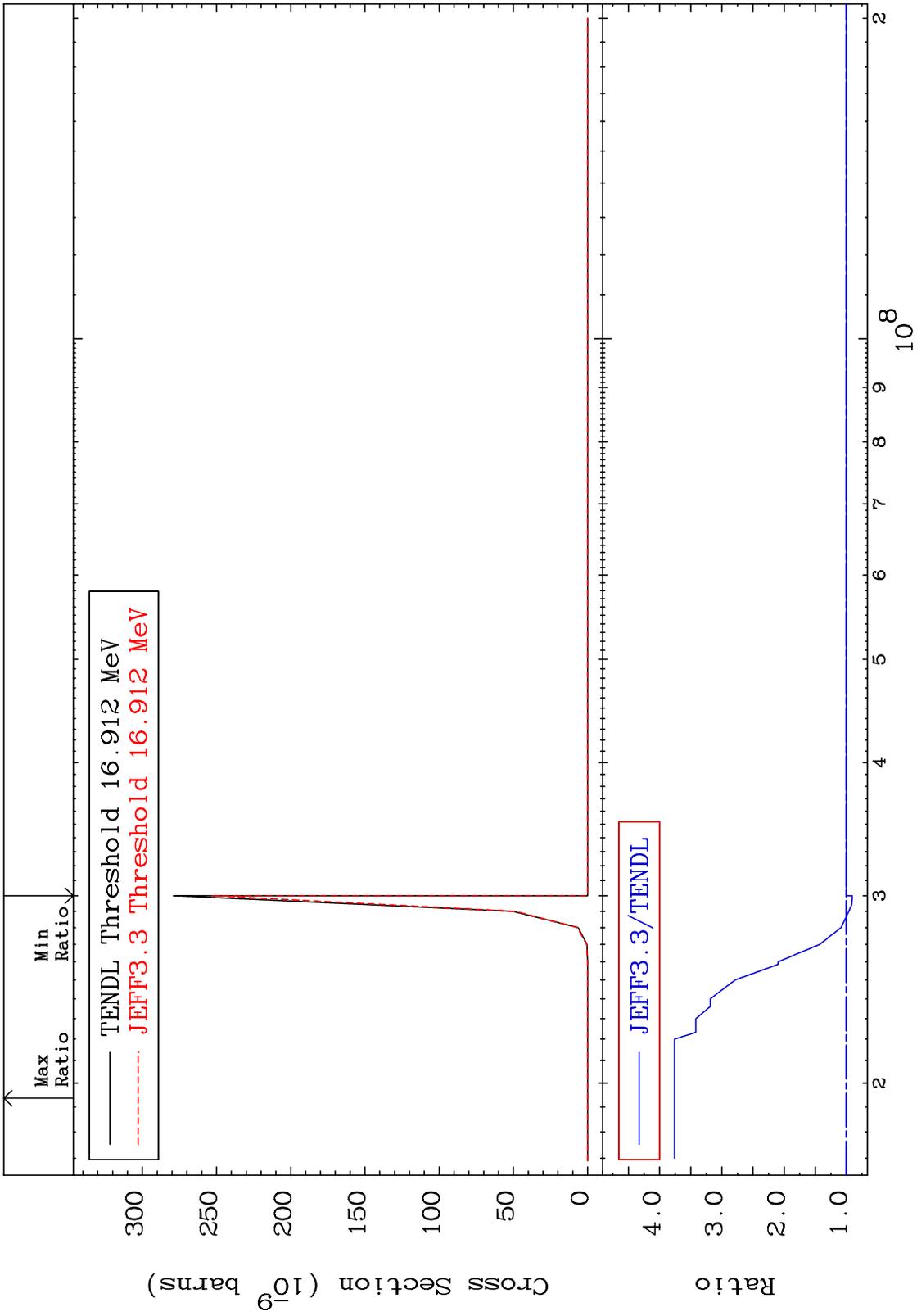
MAT 3731

(n,2n) p
Cross Section

³⁷Rb-87
-0.003 To 0.252 %



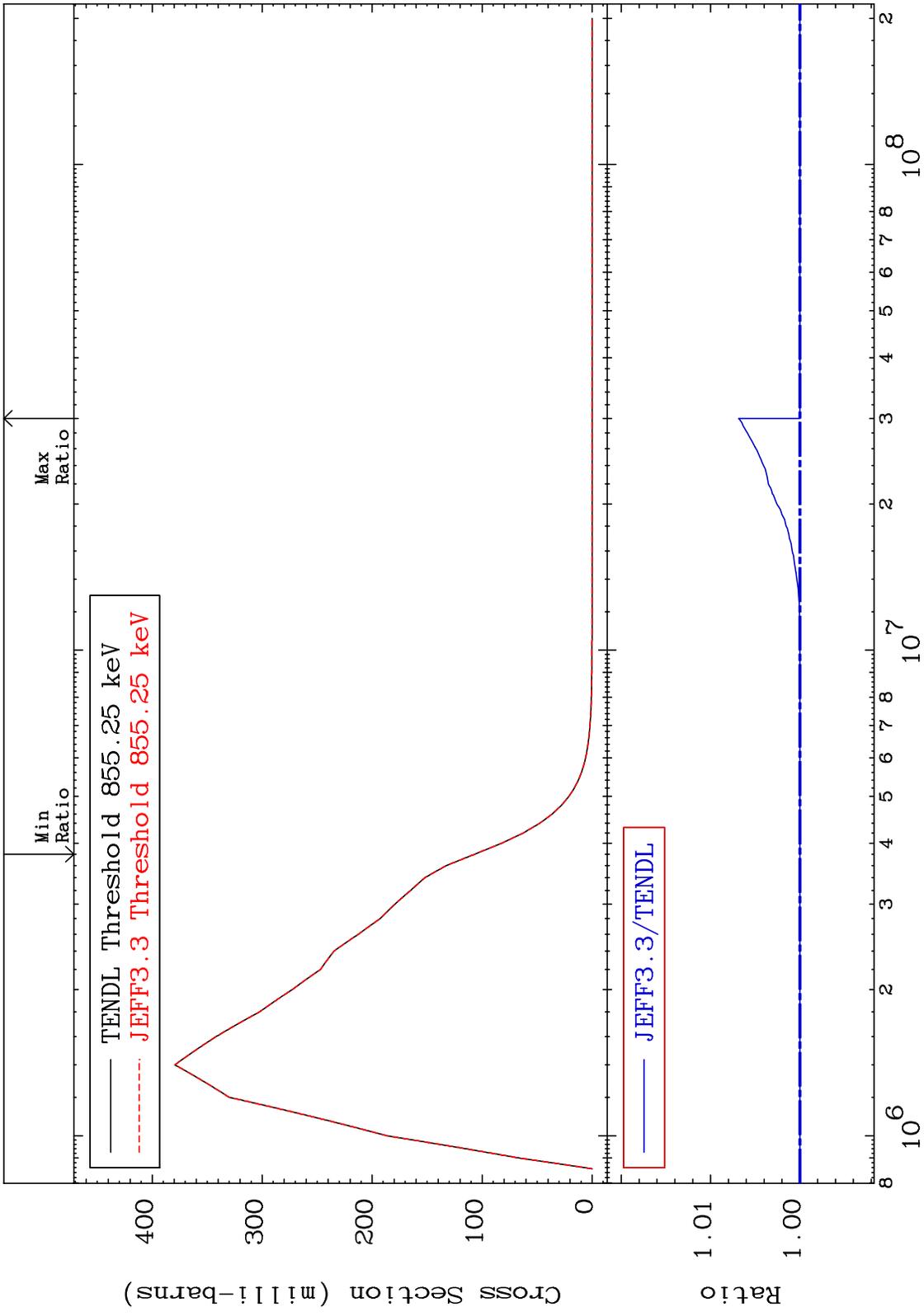
MAT 3731 (n,n') p α 37-Rb-87
 Cross Section -9.335 To 276.0 %



37-Rb-87

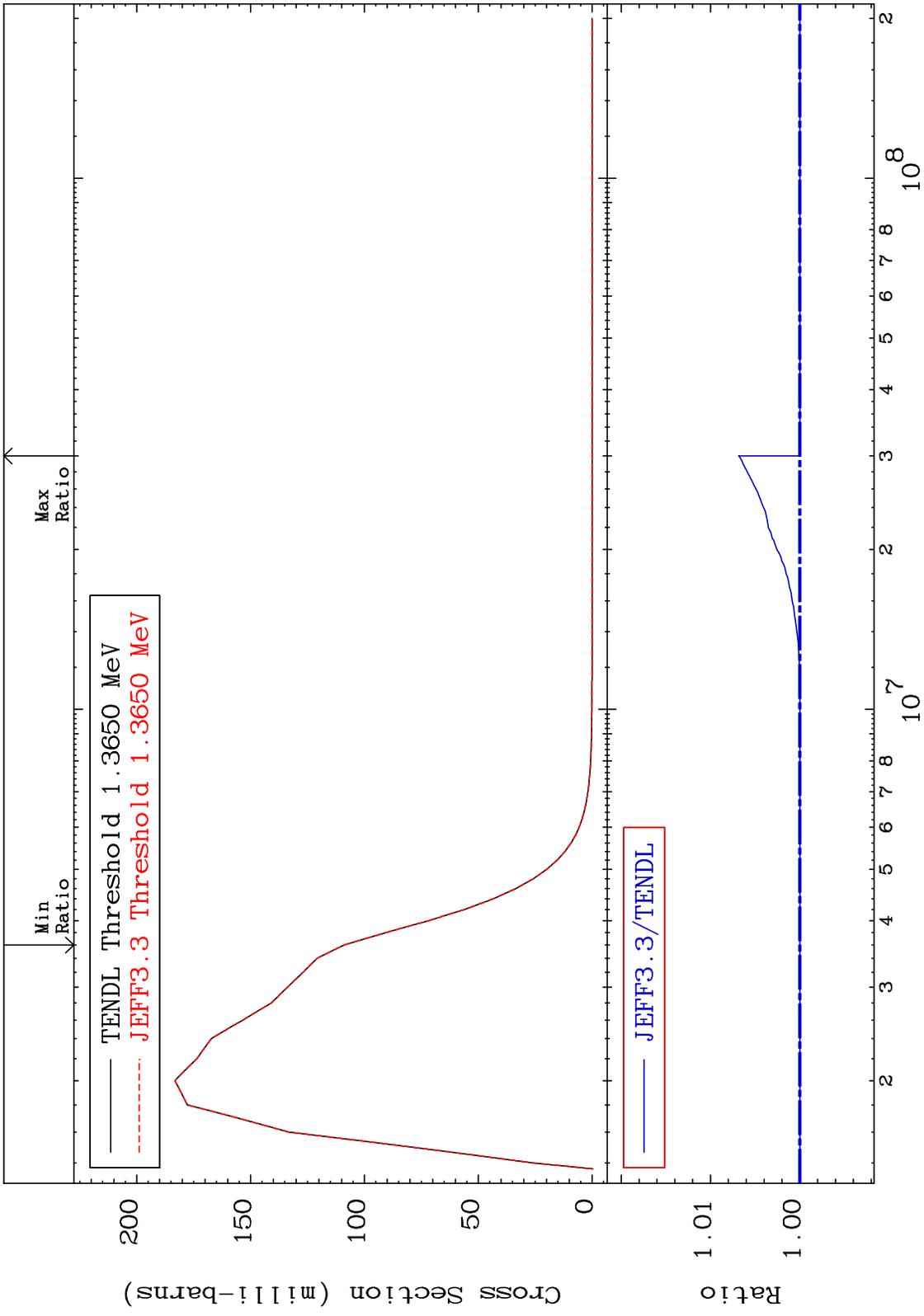
Incident Energy (eV)

MAT 3731 MT= 52 (n,n') Level Cross Section 37-Rb-87 -0.002 To 0.686 %



18 Incident Energy (eV) 37-Rb-87

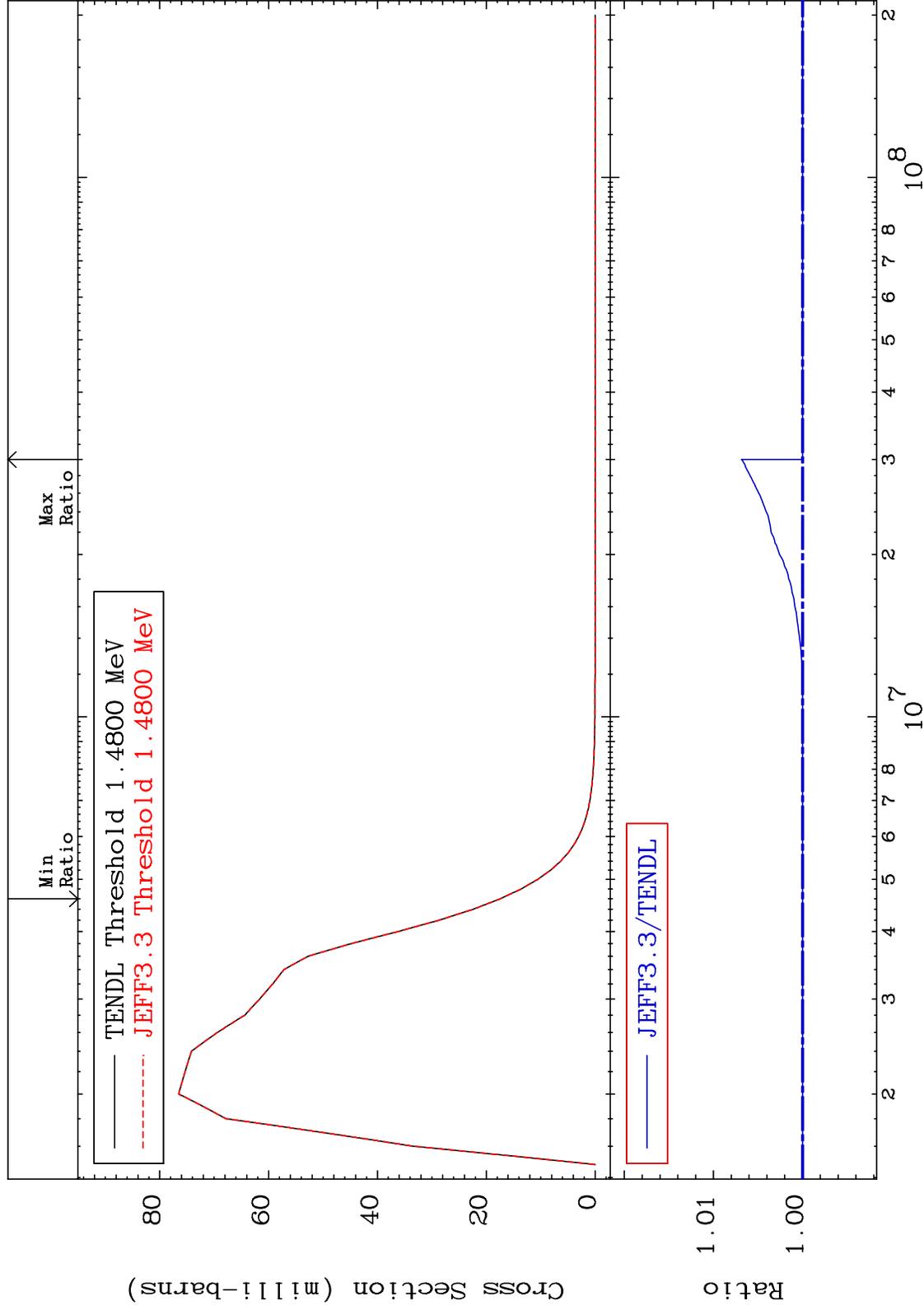
MAT 3731 MT= 53 (n,n') Level Cross Section -0.002 To 0.685 % 37-Rb-87



MAT 3731

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

37-Rb-87
-0.001 To 0.685 %

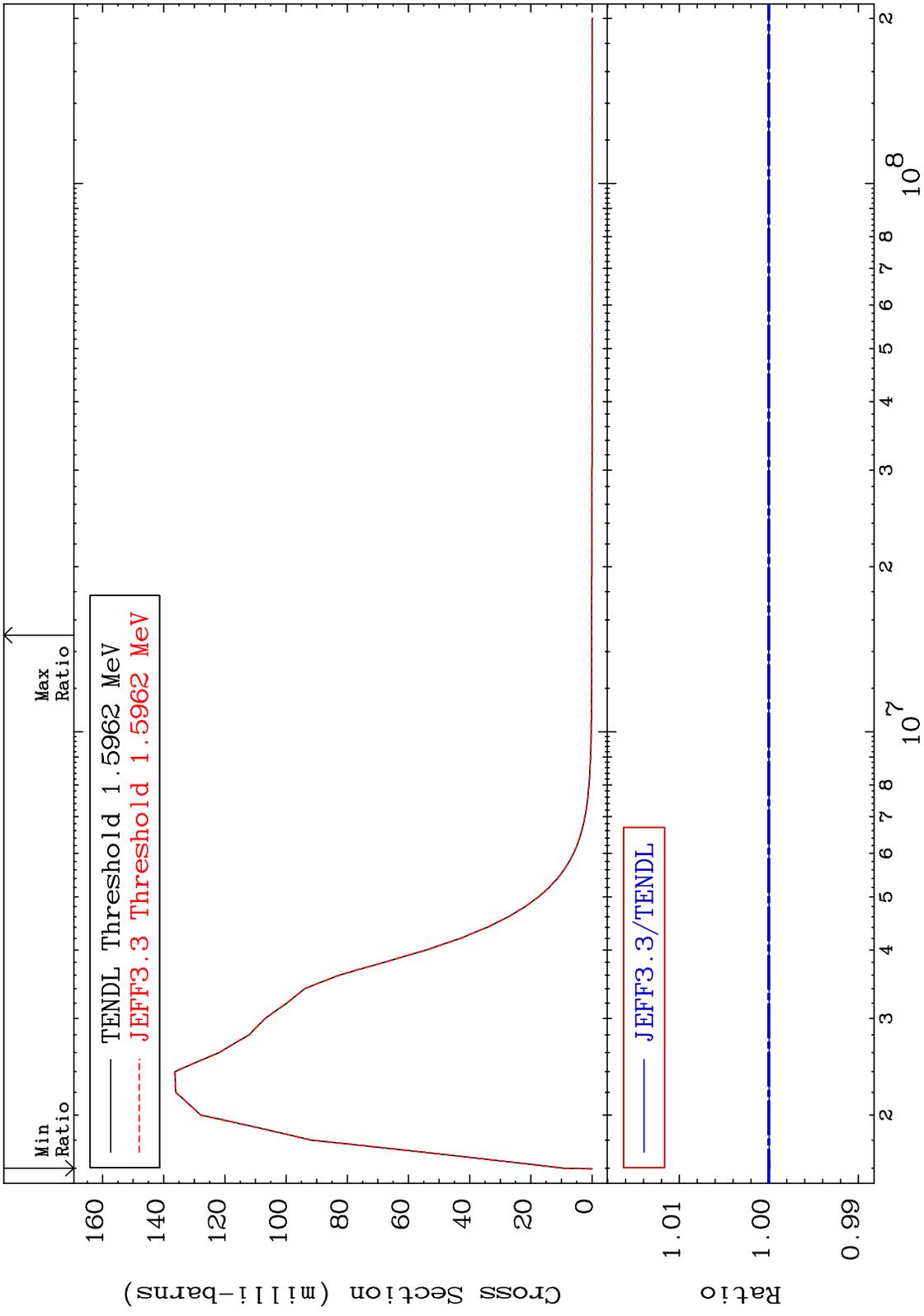


20

Incident Energy (eV)

37-Rb-87

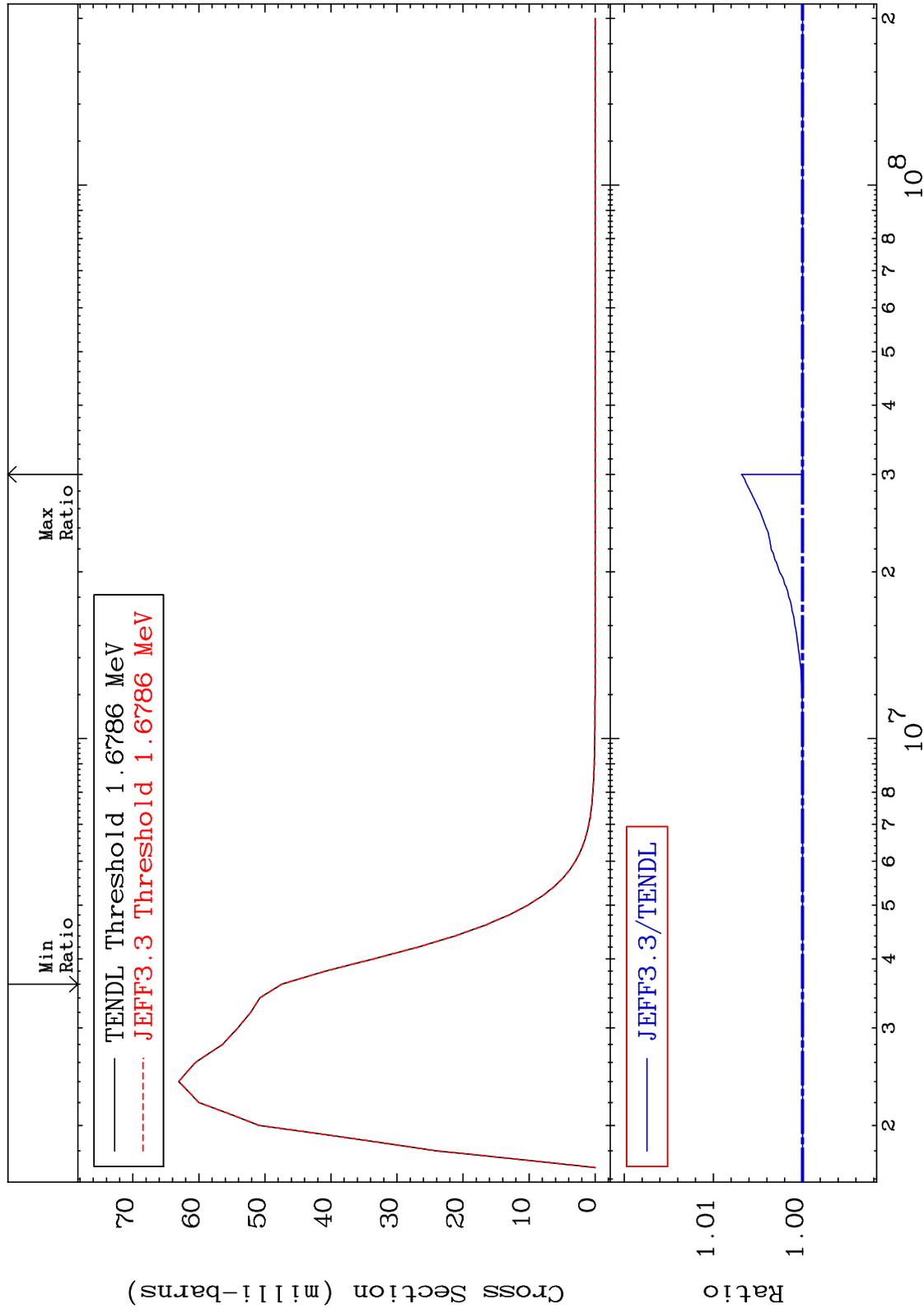
MAT 3731 MT= 56 (n,n') Level Cross Section -0.011 To 0.002 % 37-Rb-87



MAT 3731

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

37-Rb-87
-0.001 To 0.685 %

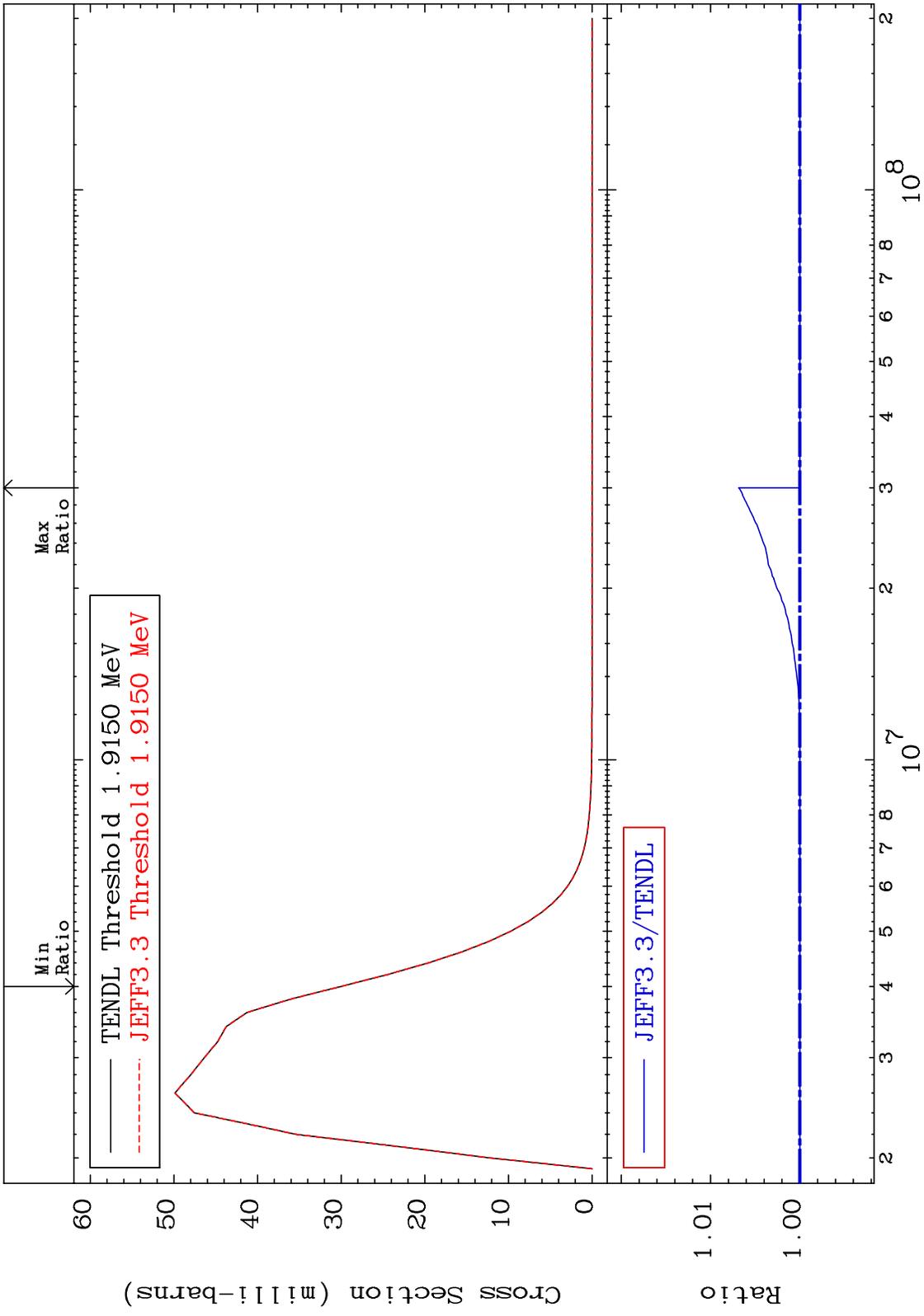


22

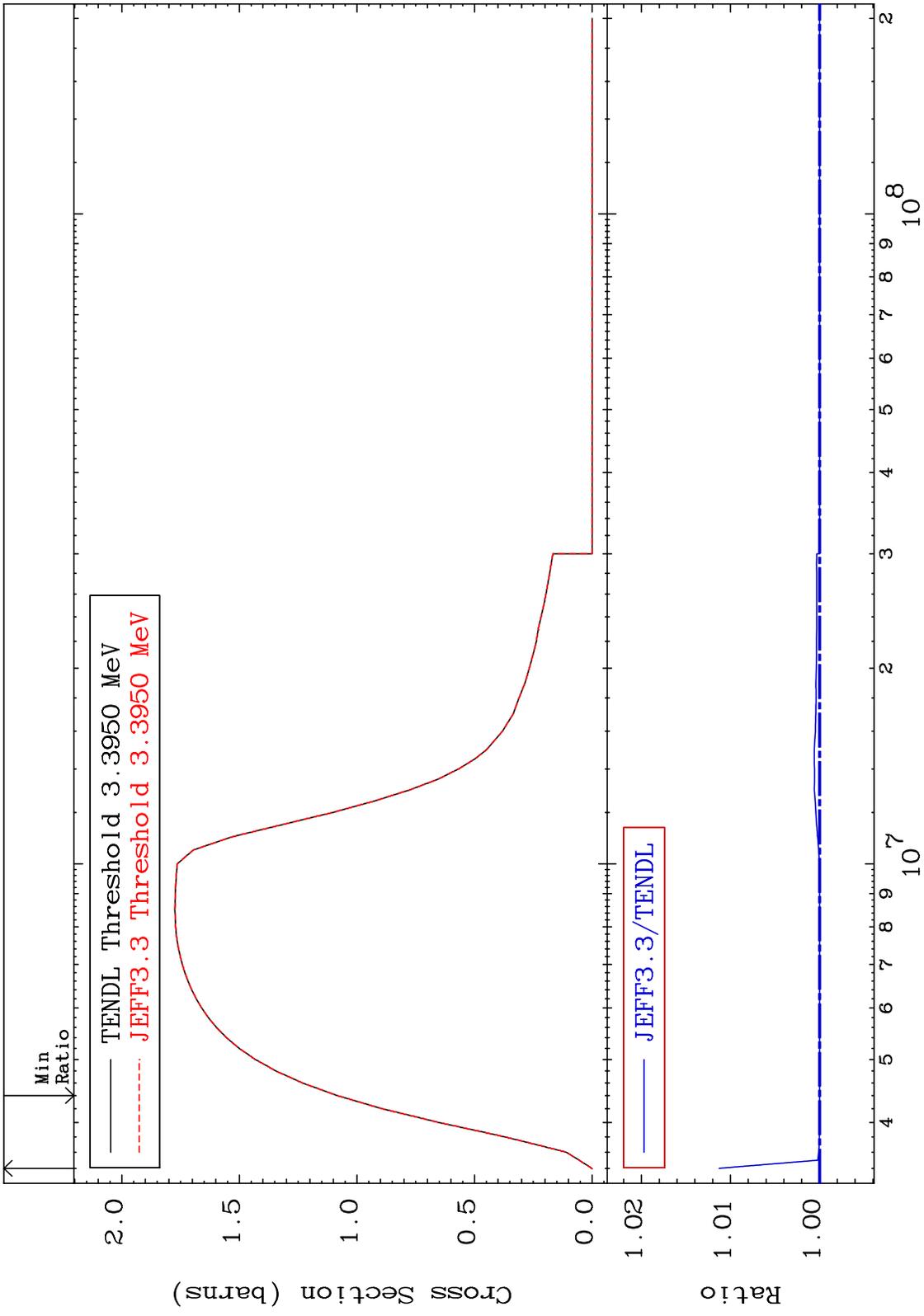
37-Rb-87

37-Rb-87

MAT 3731 MT= 59 (n,n') Level Cross Section -0.001 To 0.685 % 37-Rb-87



MAT 3731 (n,n') Continuum Cross Section 37-Rb-87 0.000 To 1.129 %



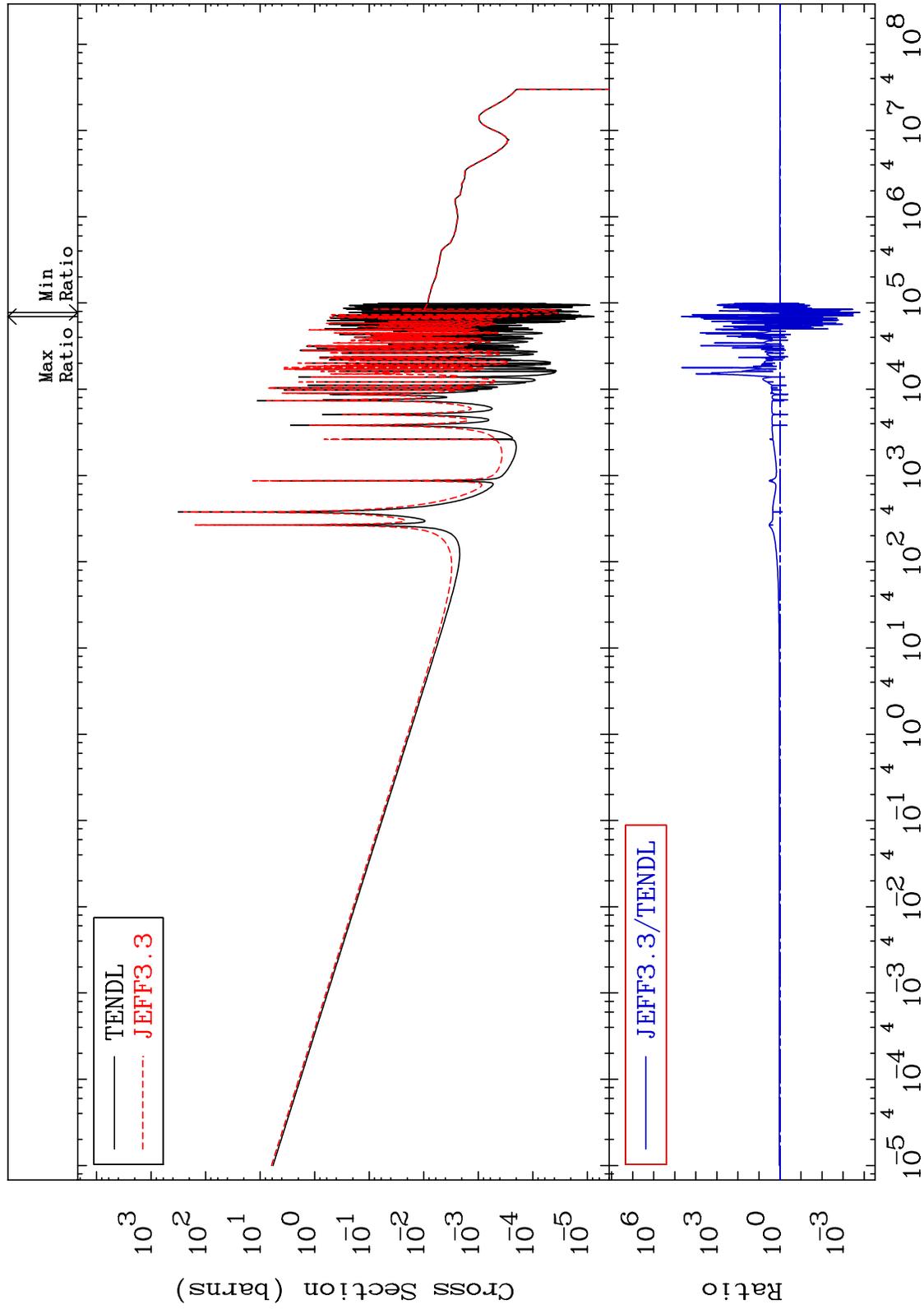
MAT 3731

(n, γ)

37-Rb-87

Cross Section

-99.98 To 9999. %



Incident Energy (eV)

37-Rb-87

MAT 3731

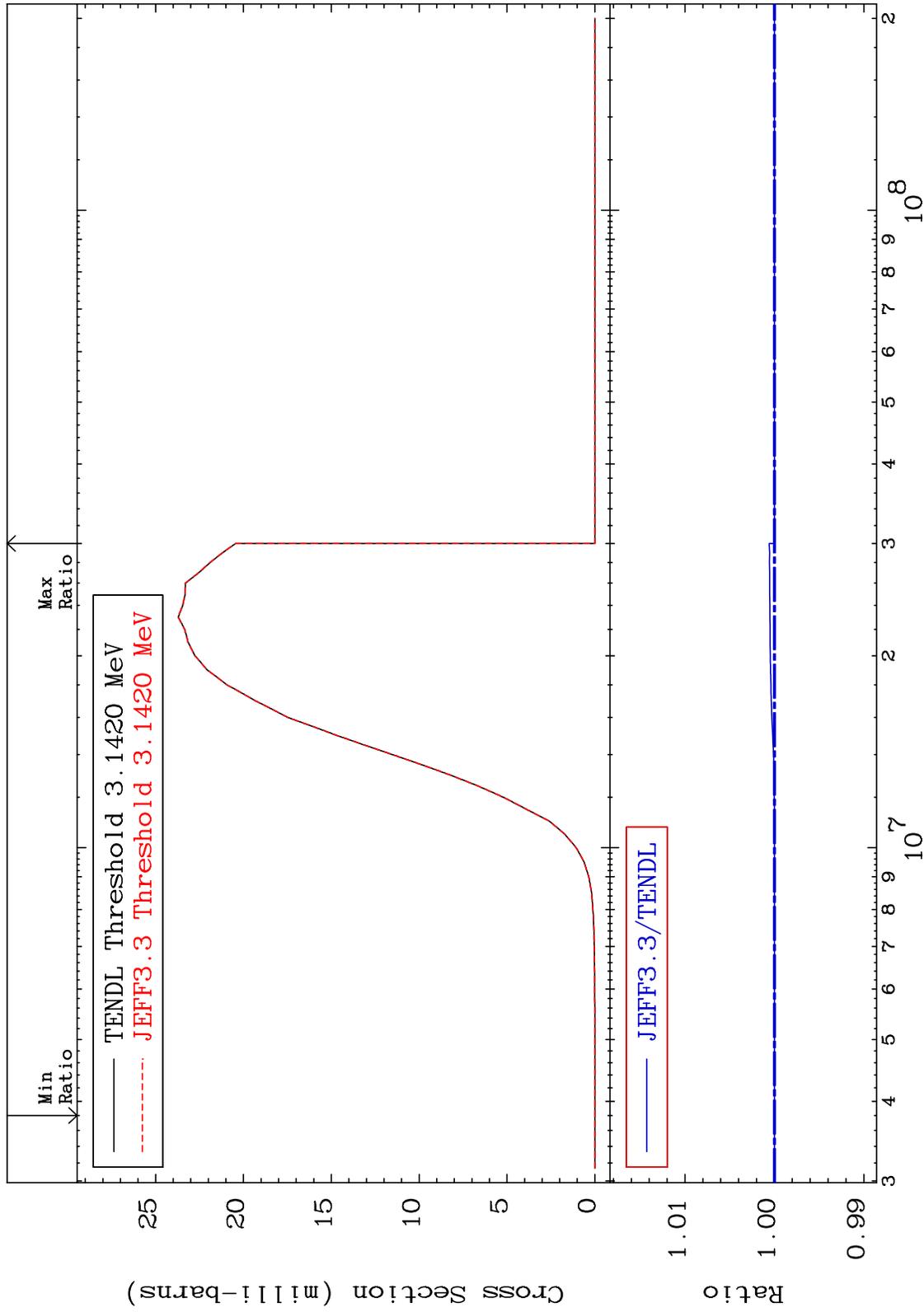
(n,p)

³⁷Rb-87

Cross Section

Cross Section

-0.002 To 0.058 %

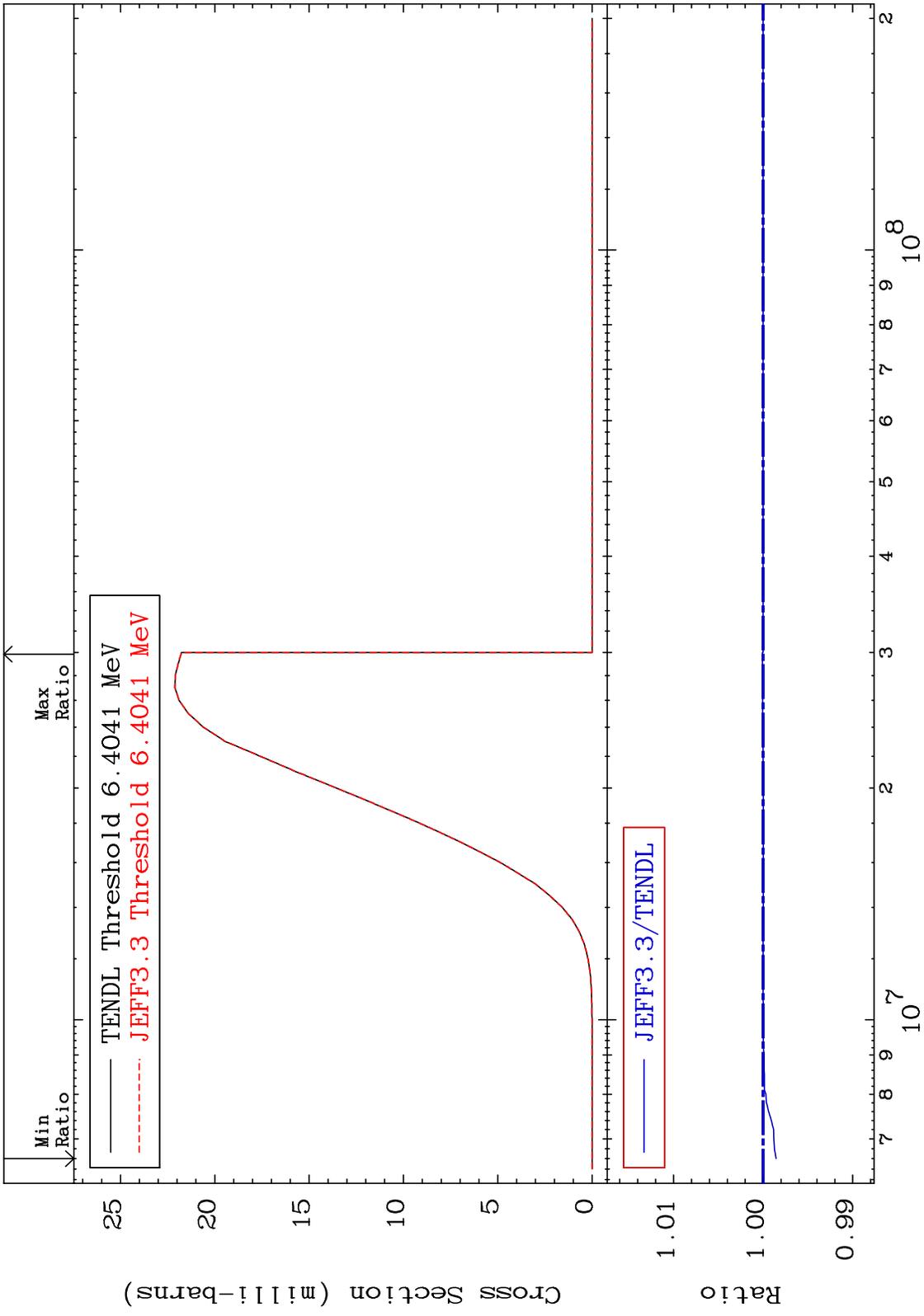


26

Incident Energy (eV)

³⁷Rb-87

MAT 3731 $^{37}\text{Rb-87}$ (n,d) Cross Section -0.145 To 0.008 %



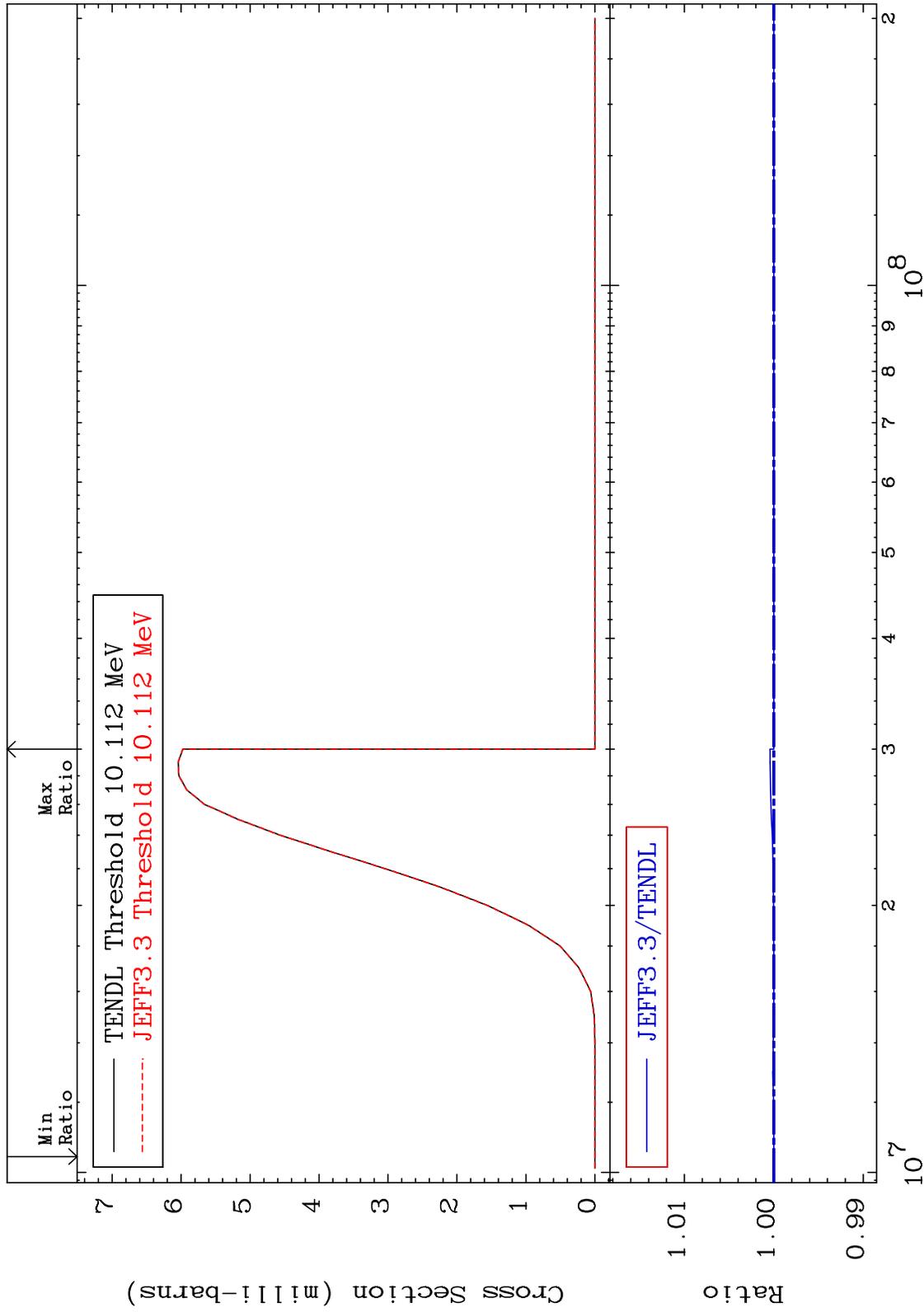
MAT 3731

(n, t)

37-Rb-87

Cross Section

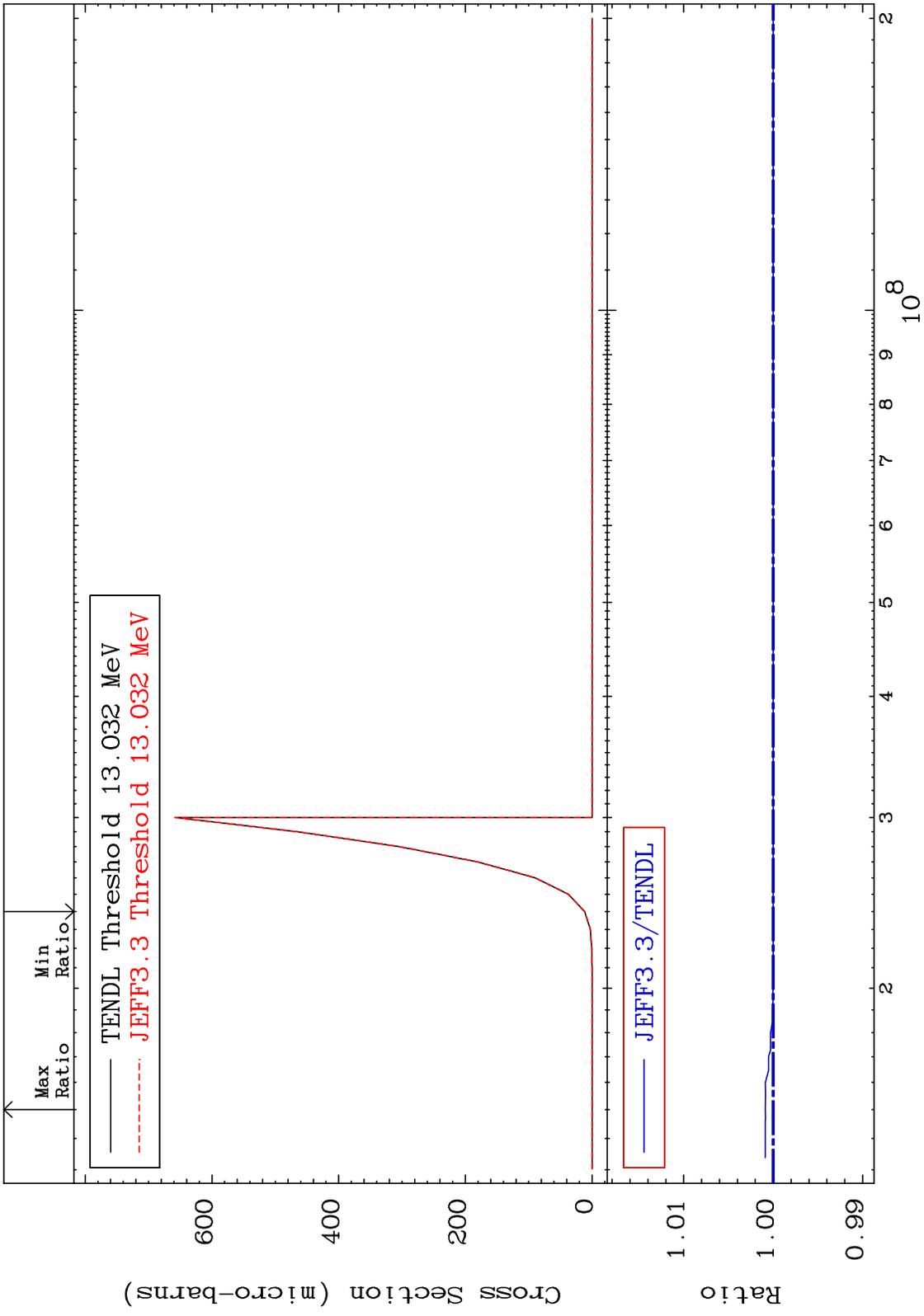
0.000 To 0.043 %

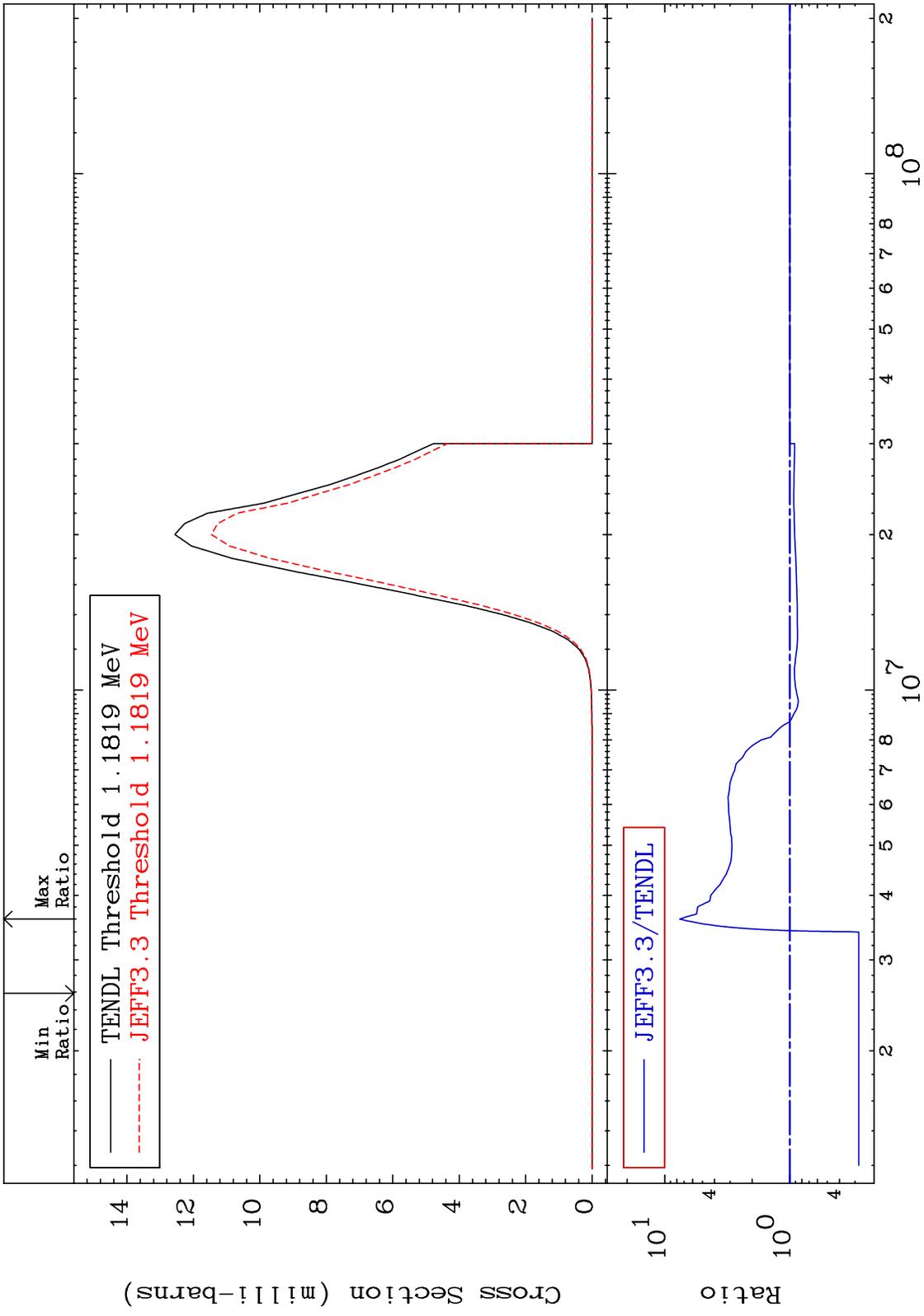


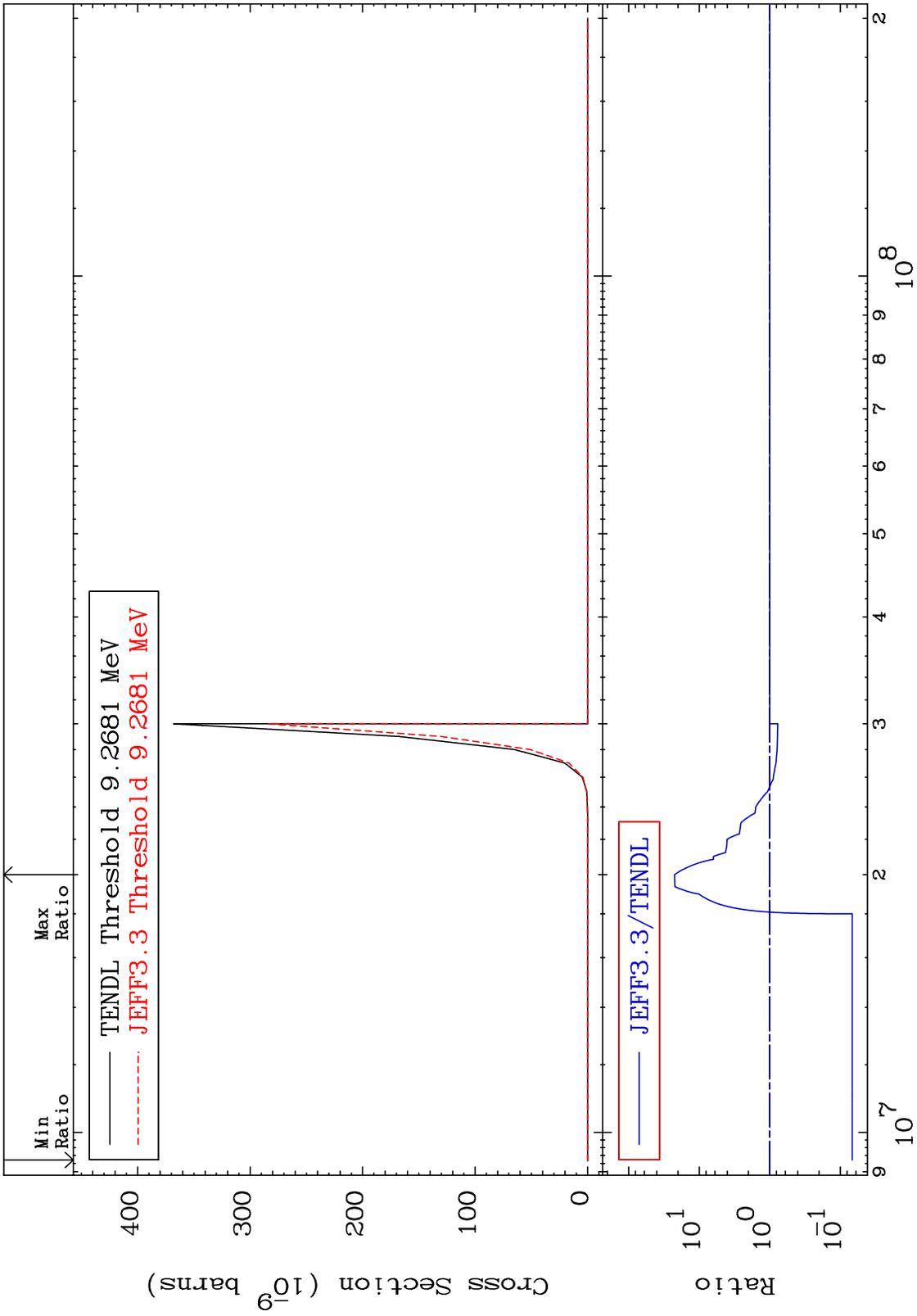
28

Incident Energy (eV)

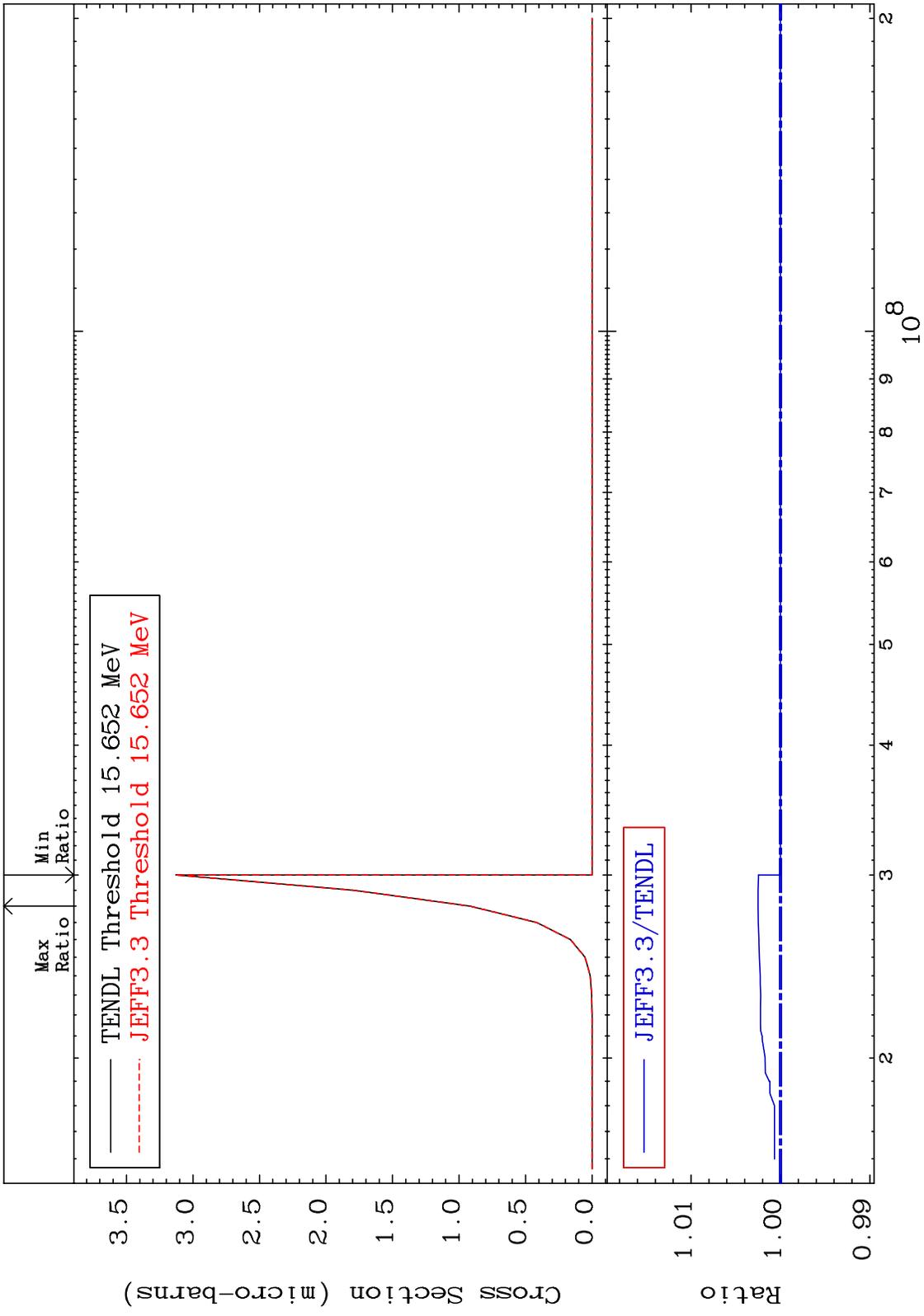
37-Rb-87





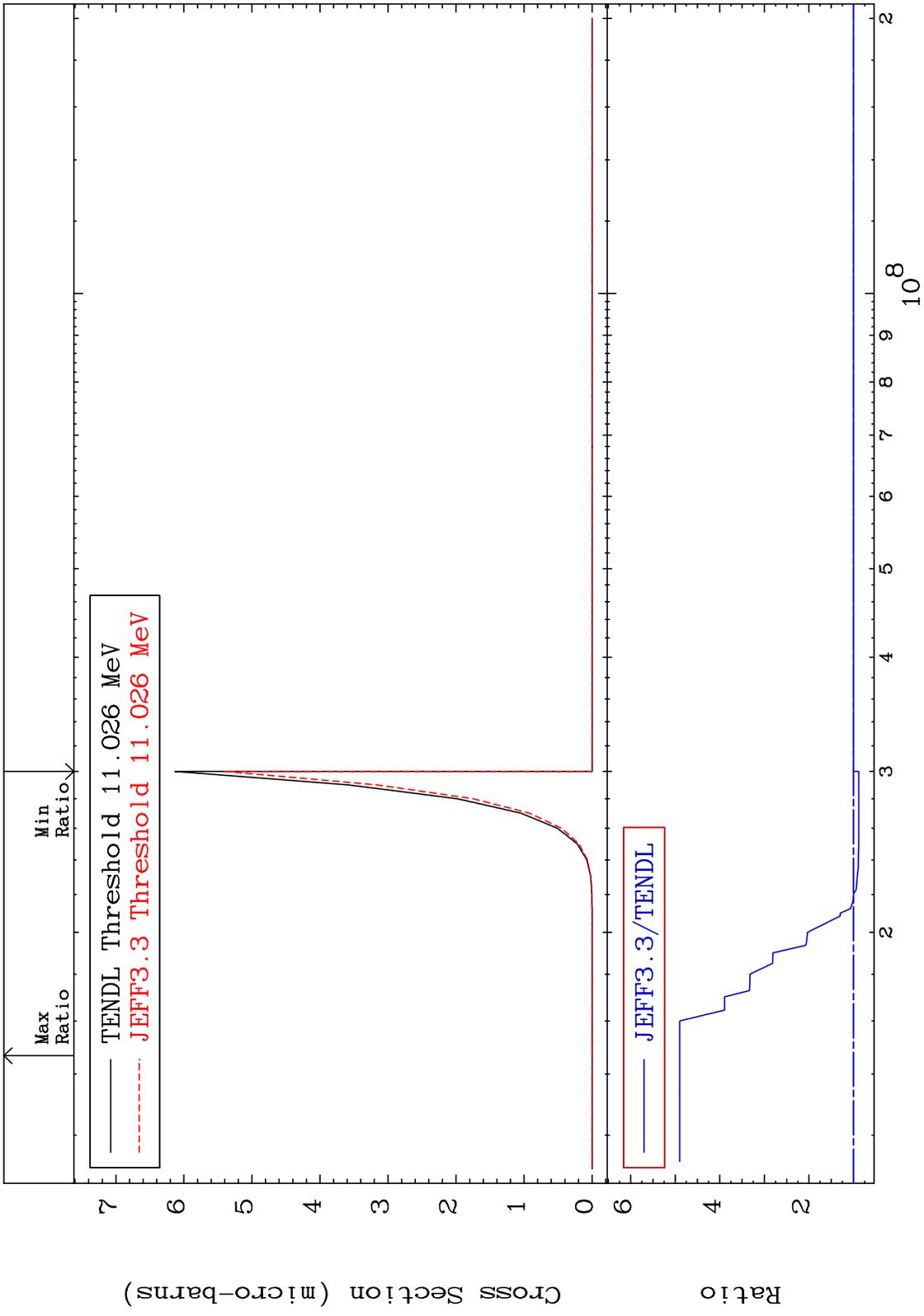


MAT 3731 (n,2p) Cross Section 37-Rb-87 0.000 To 0.251 %

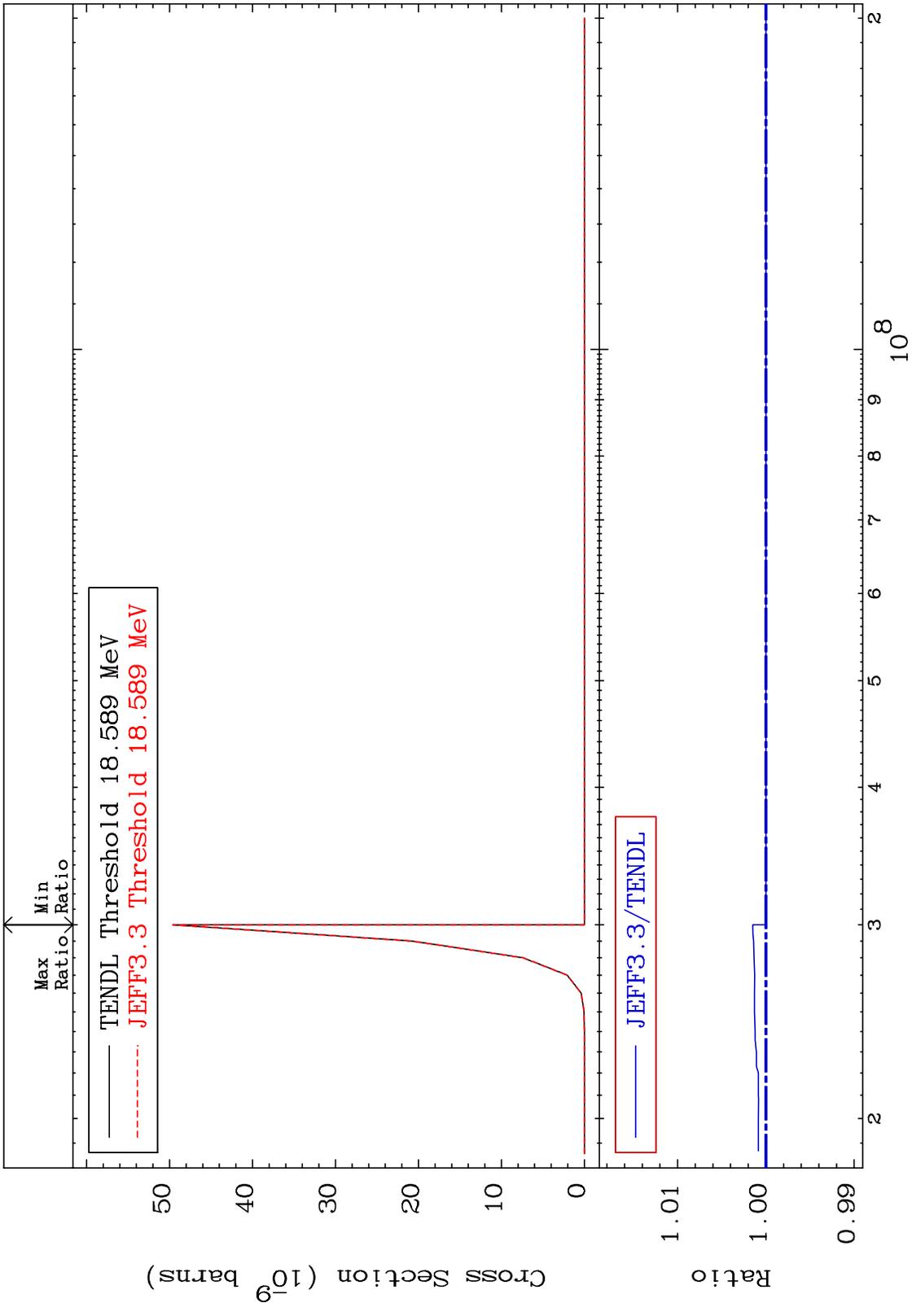


37-Rb-87

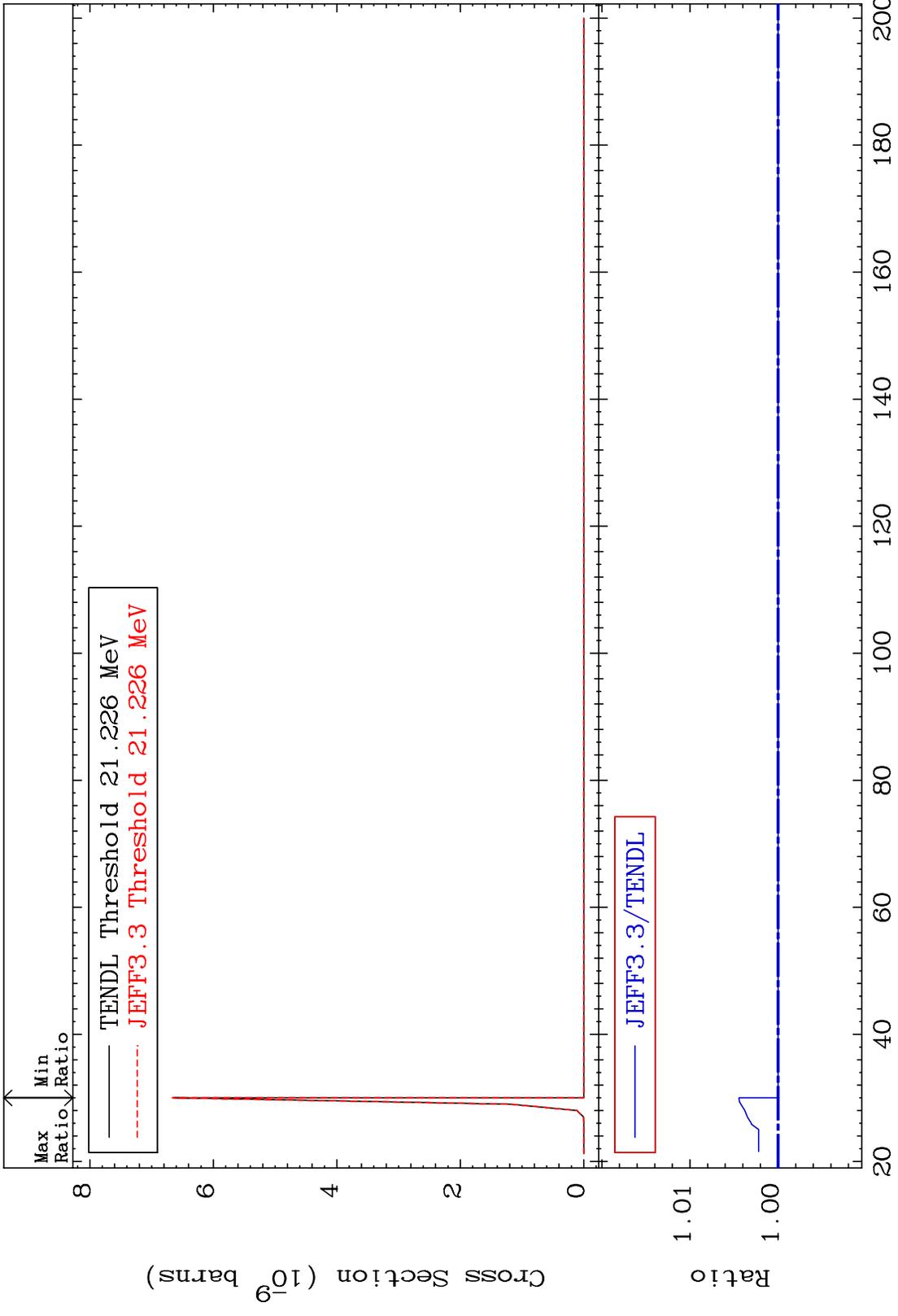
MAT 3731 $(n, p) \alpha$ $^{37}\text{Rb-87}$
 Cross Section -11.84 To 389.8 %

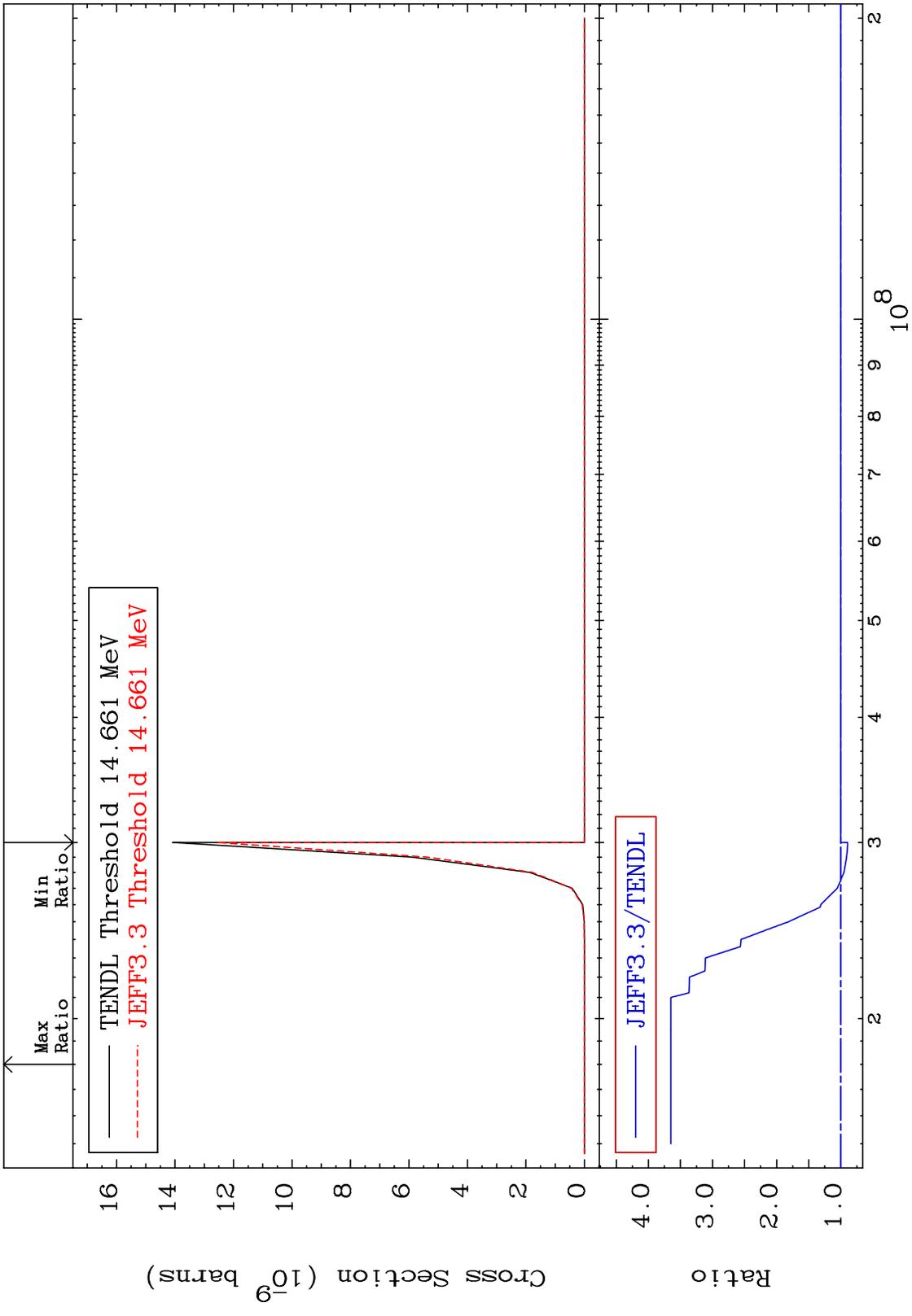


MAT 3731 (n,p) d ³⁷Rb-87
 Cross Section 0.000 To 0.150 %



MAT 3731 (n,p) t 37-Rb-87
Cross Section 0.000 To 0.445 %

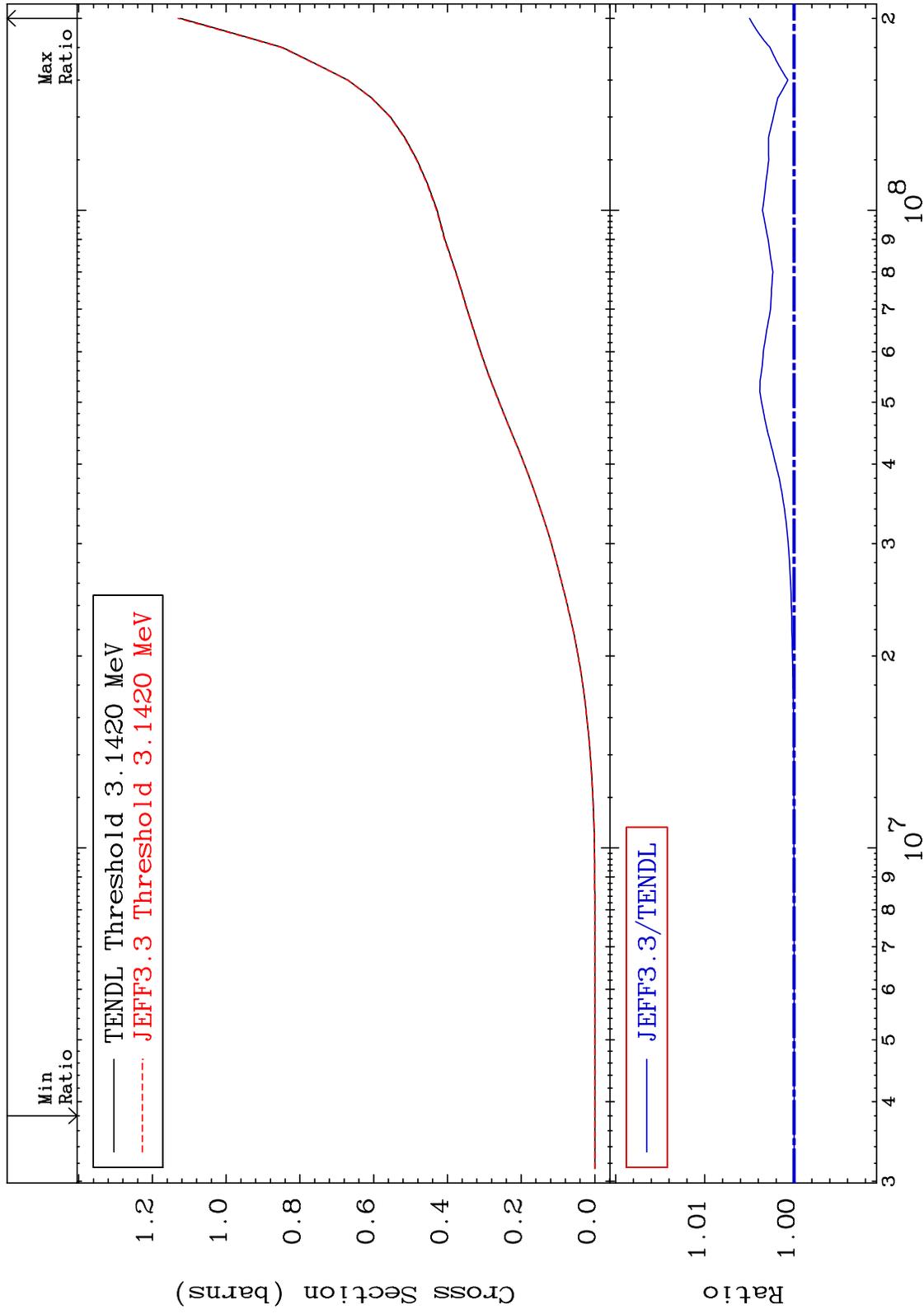




MAT 3731

Hydrogen Production
Cross Section

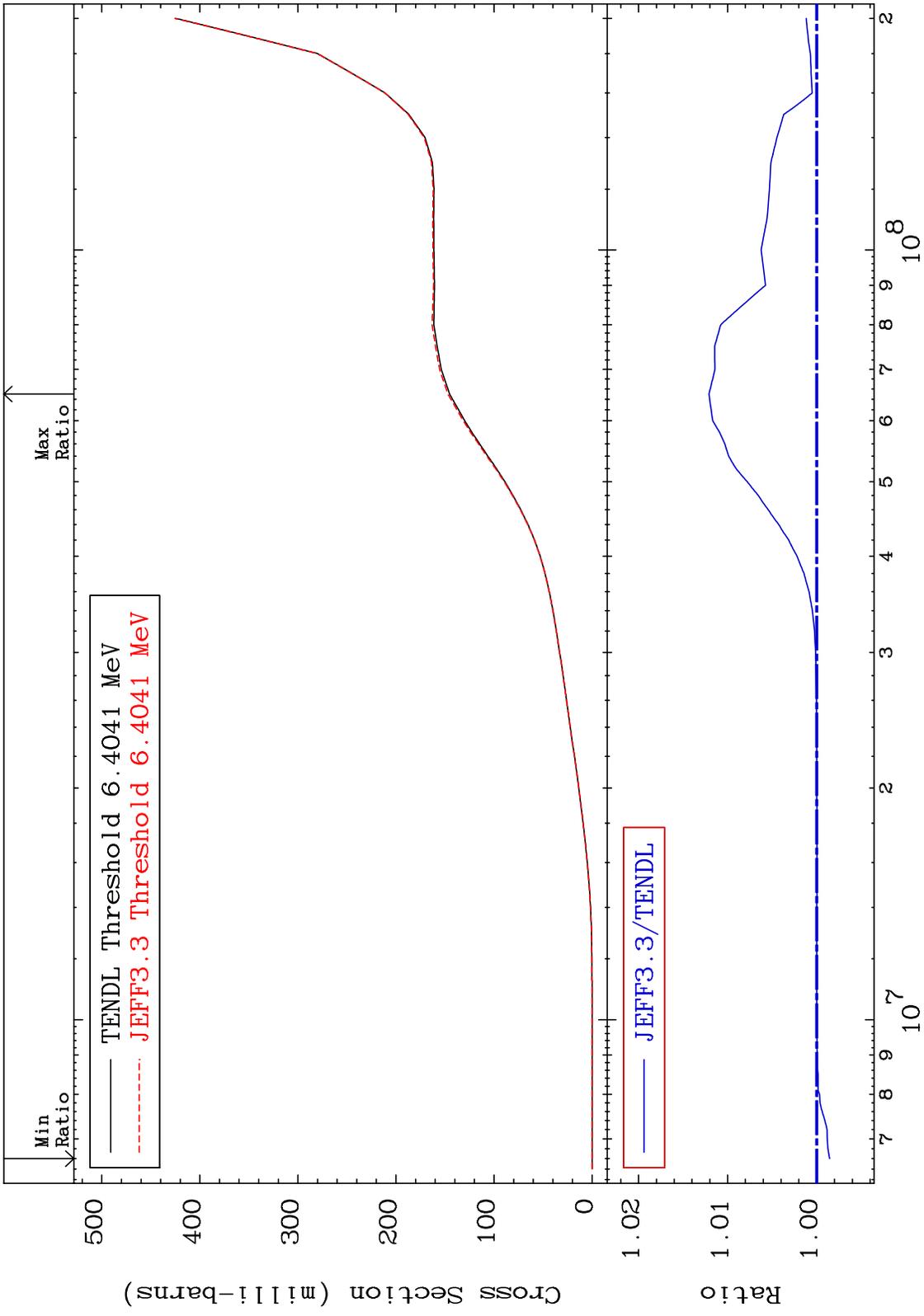
37-Rb-87
-0.002 To 0.498 %



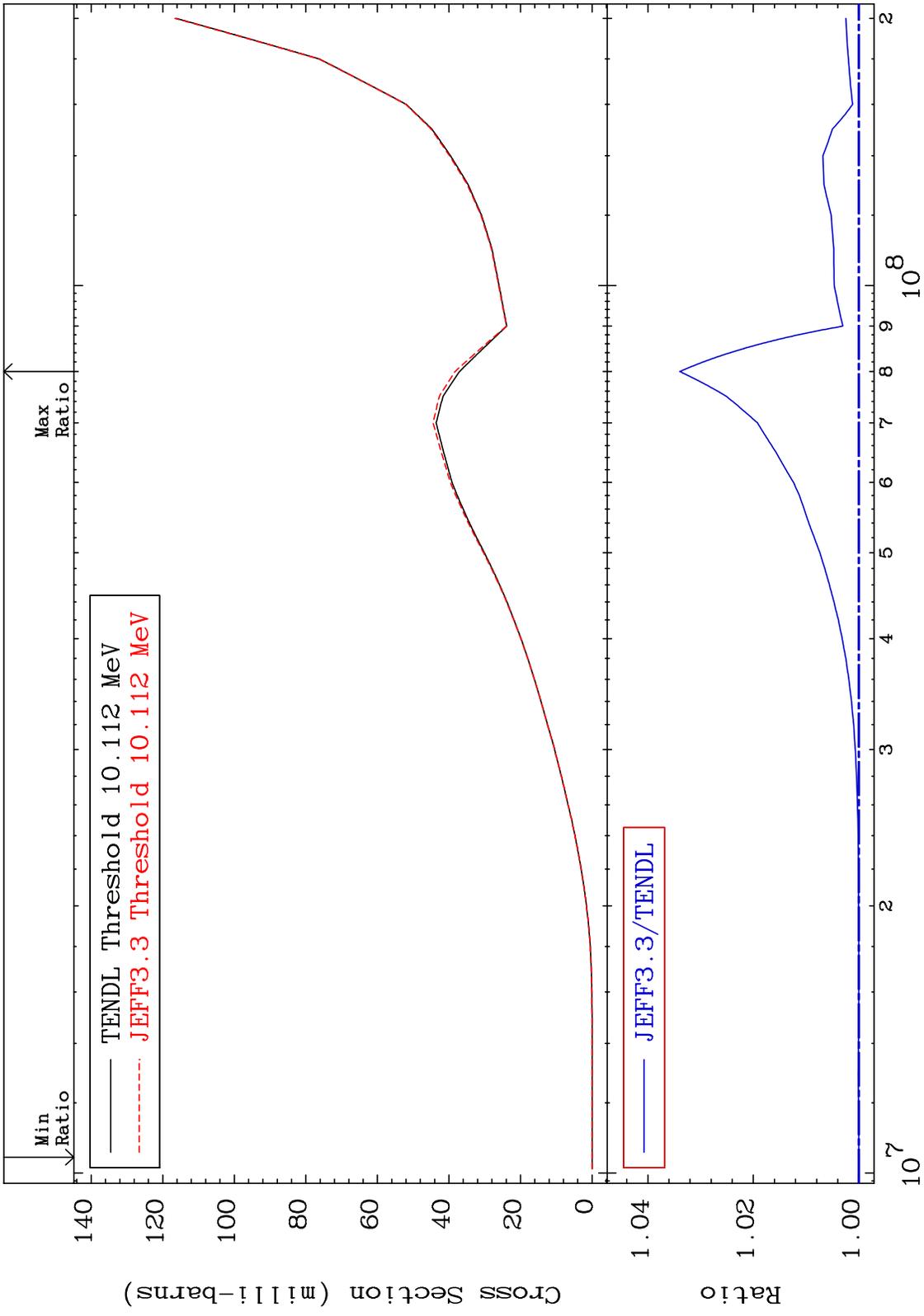
37

Incident Energy (eV)

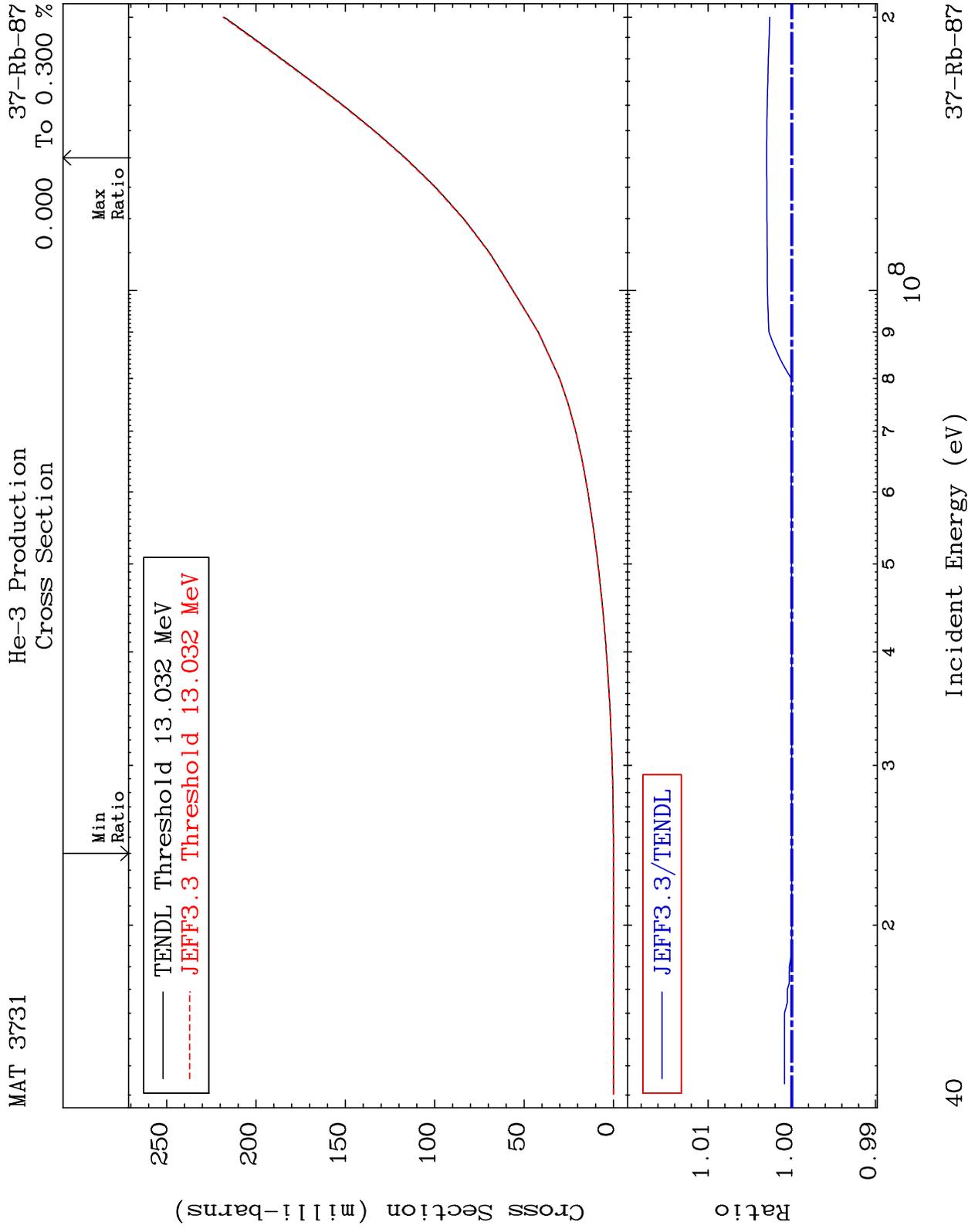
37-Rb-87

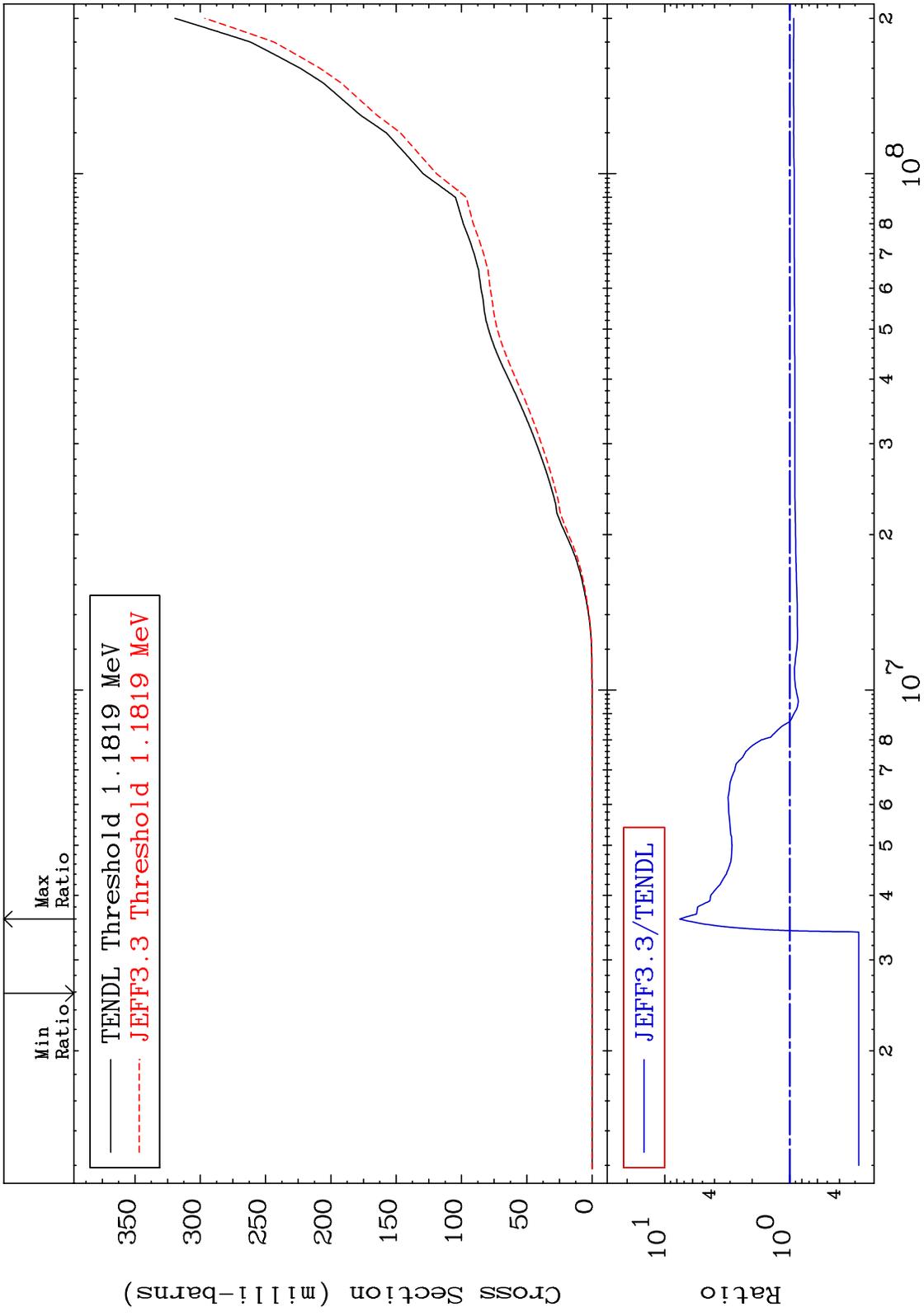


MAT 3731 Tritium Production Cross Section 37-Rb-87 To 3.396 %



37-Rb-87

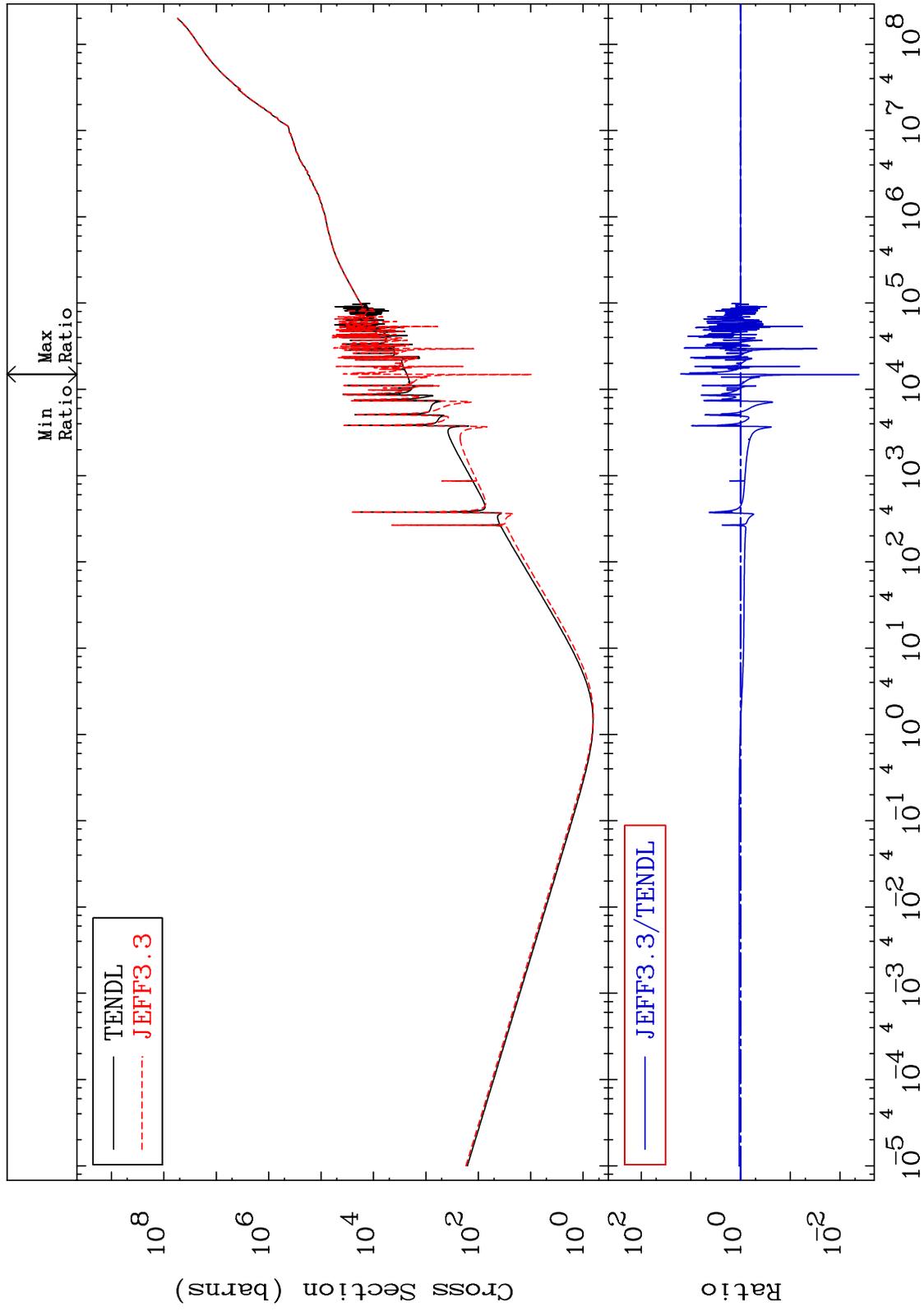




MAT 3731

Kerma total (eV-barns)
Cross Section

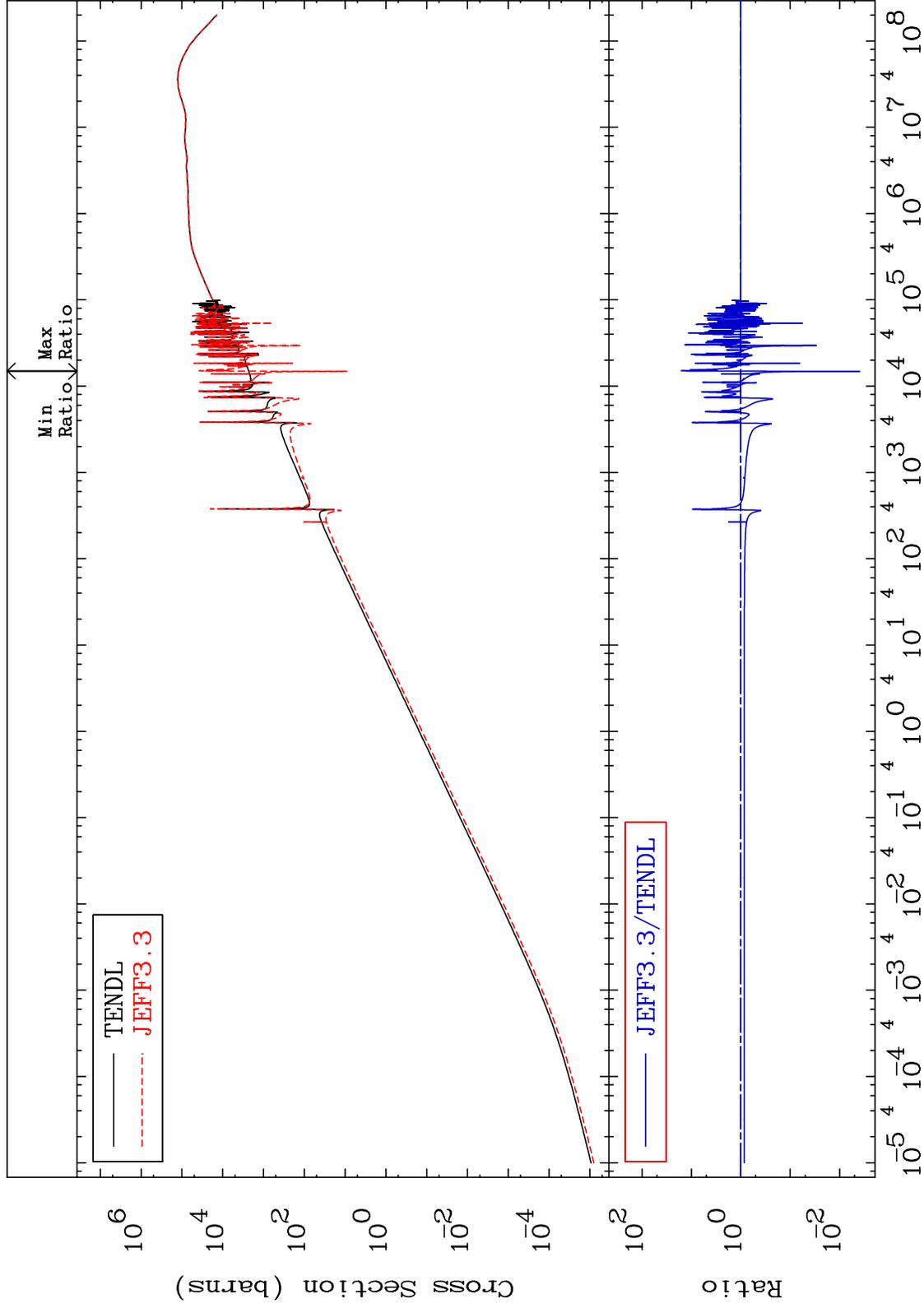
37-Rb-87
-99.58 To 1510. %



MAT 3731

Kerma elastic
Cross Section

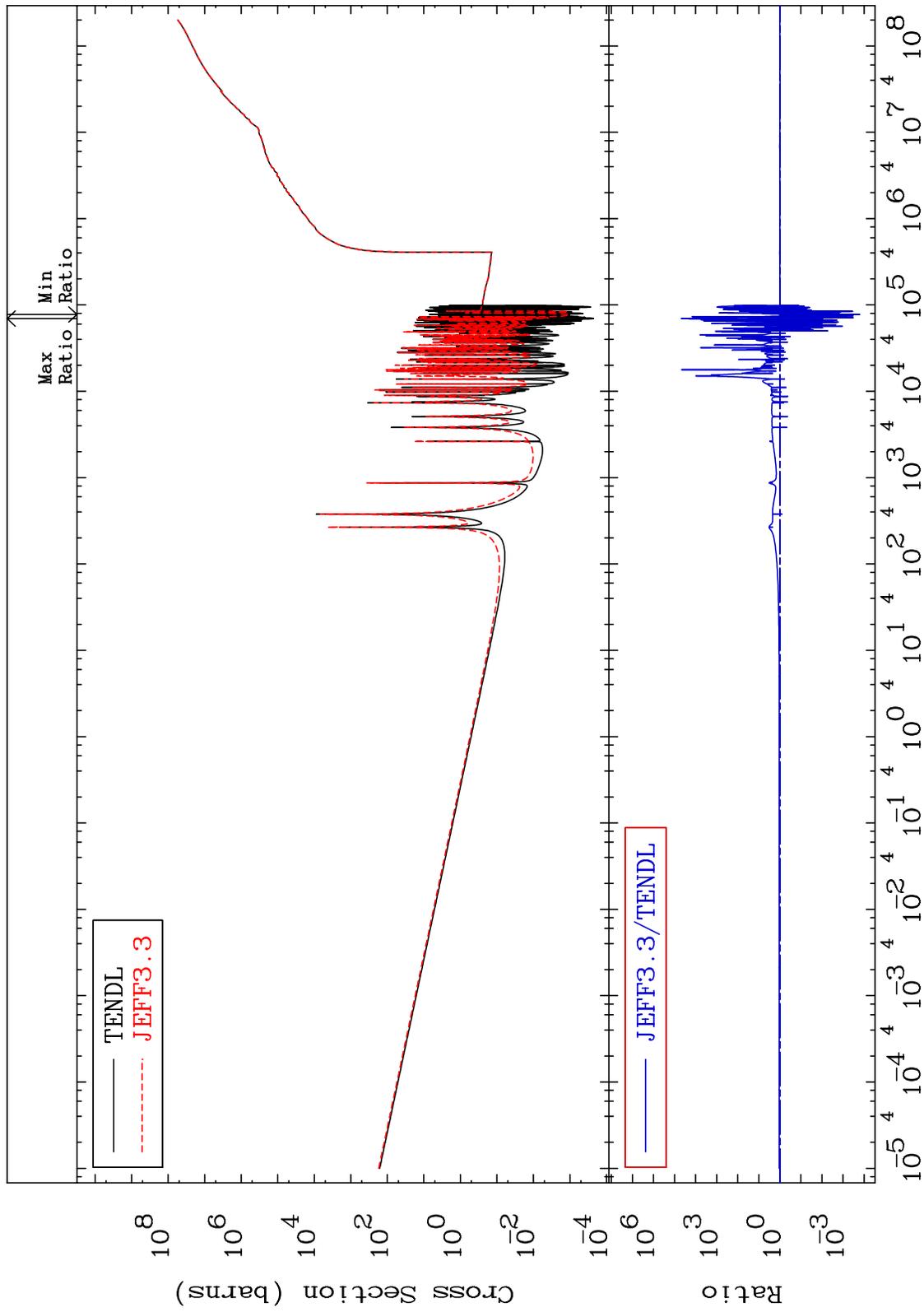
37-Rb-87
-99.61 To 1509. %



MAT 3731

Kerma non-elastic (all but mt2)
Cross Section

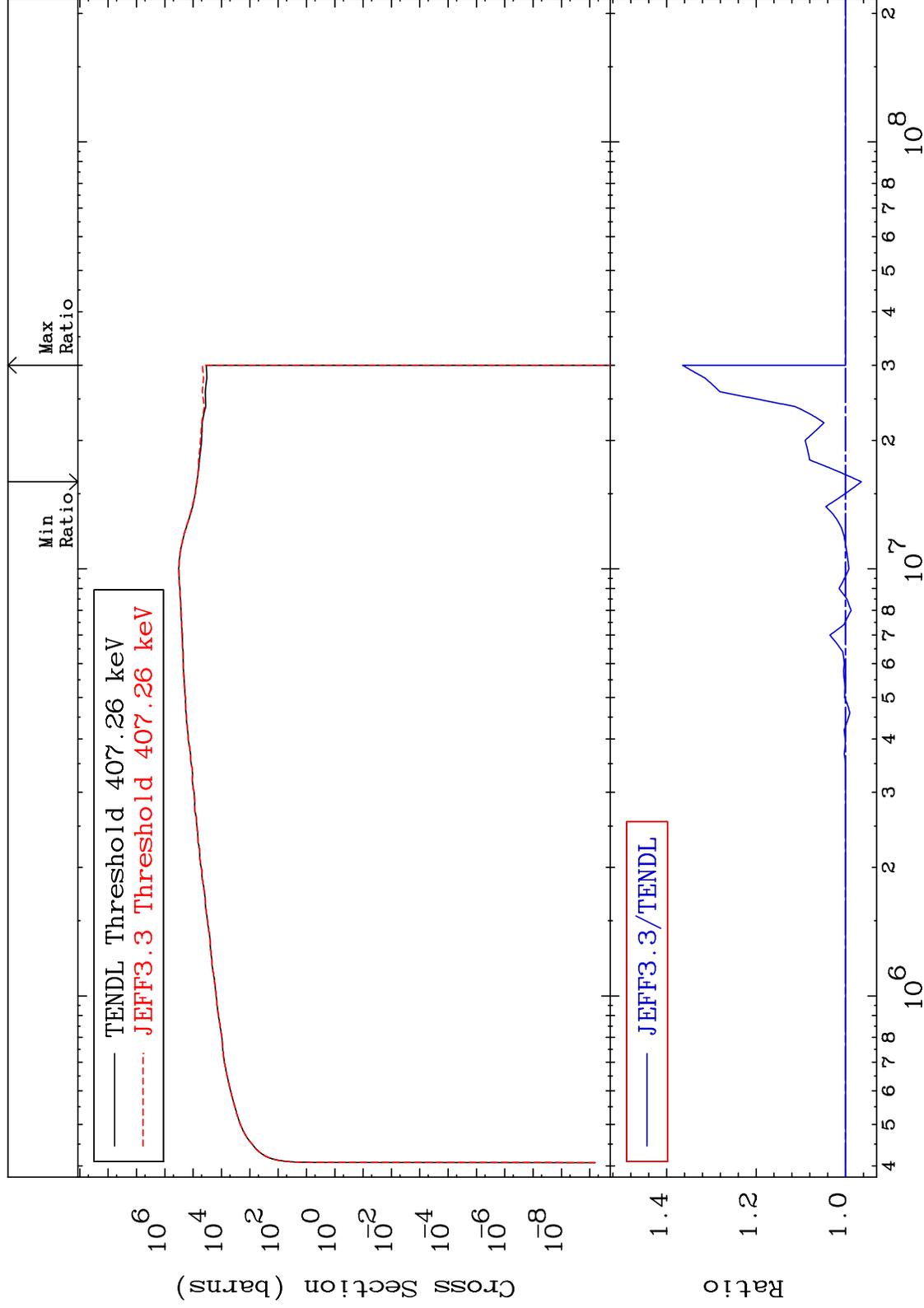
37-Rb-87
-99.98 To 9999. %



MAT 3731

Kerma inelastic (mt51-91)
Cross Section

37-Rb-87
-3.514 To 36.41 %



45

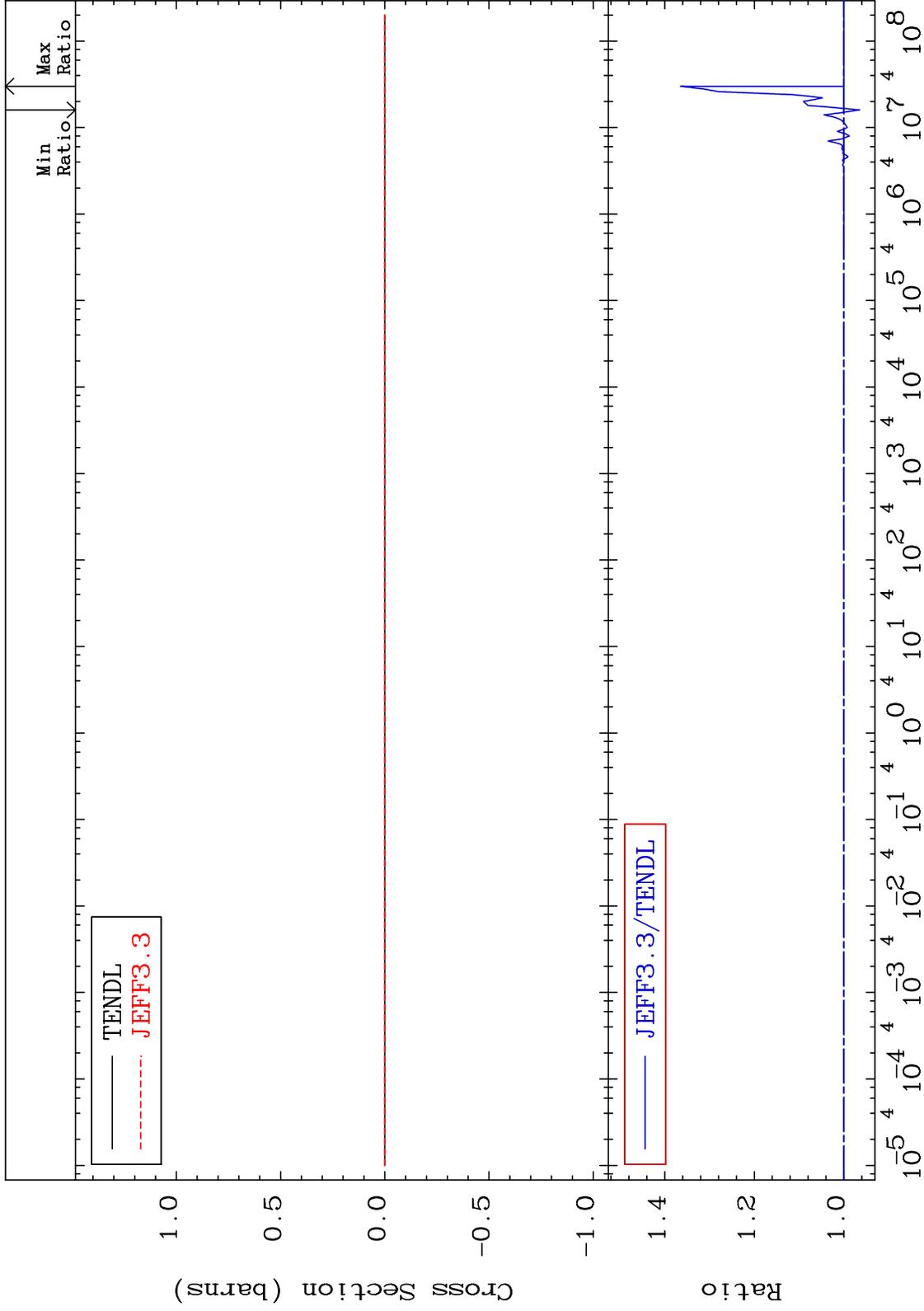
Incident Energy (eV)

37-Rb-87

MAT 3731

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

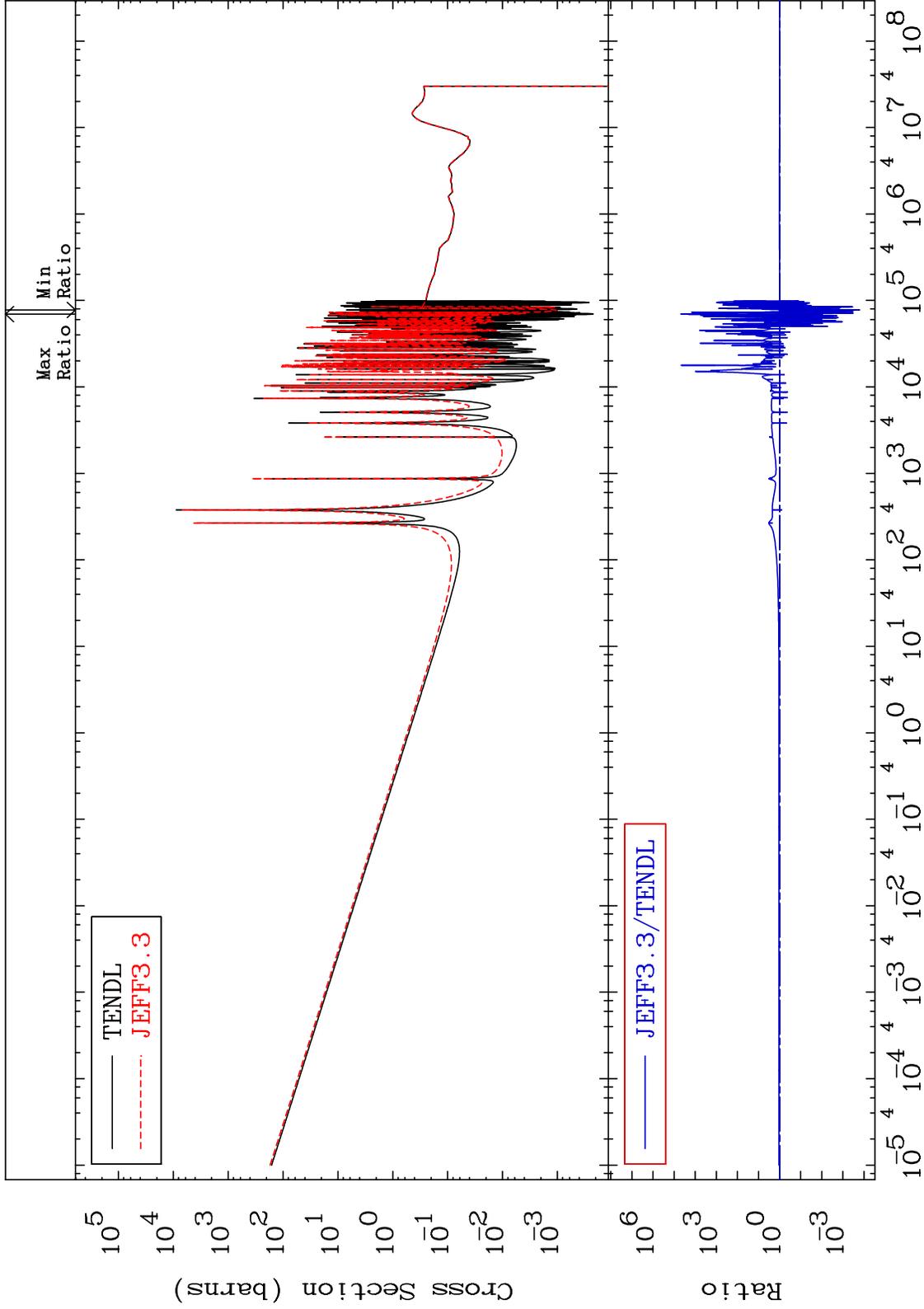
37-Rb-87
-3.514 To 36.41 %



MAT 3731

Kerma capture (mt102)
Cross Section

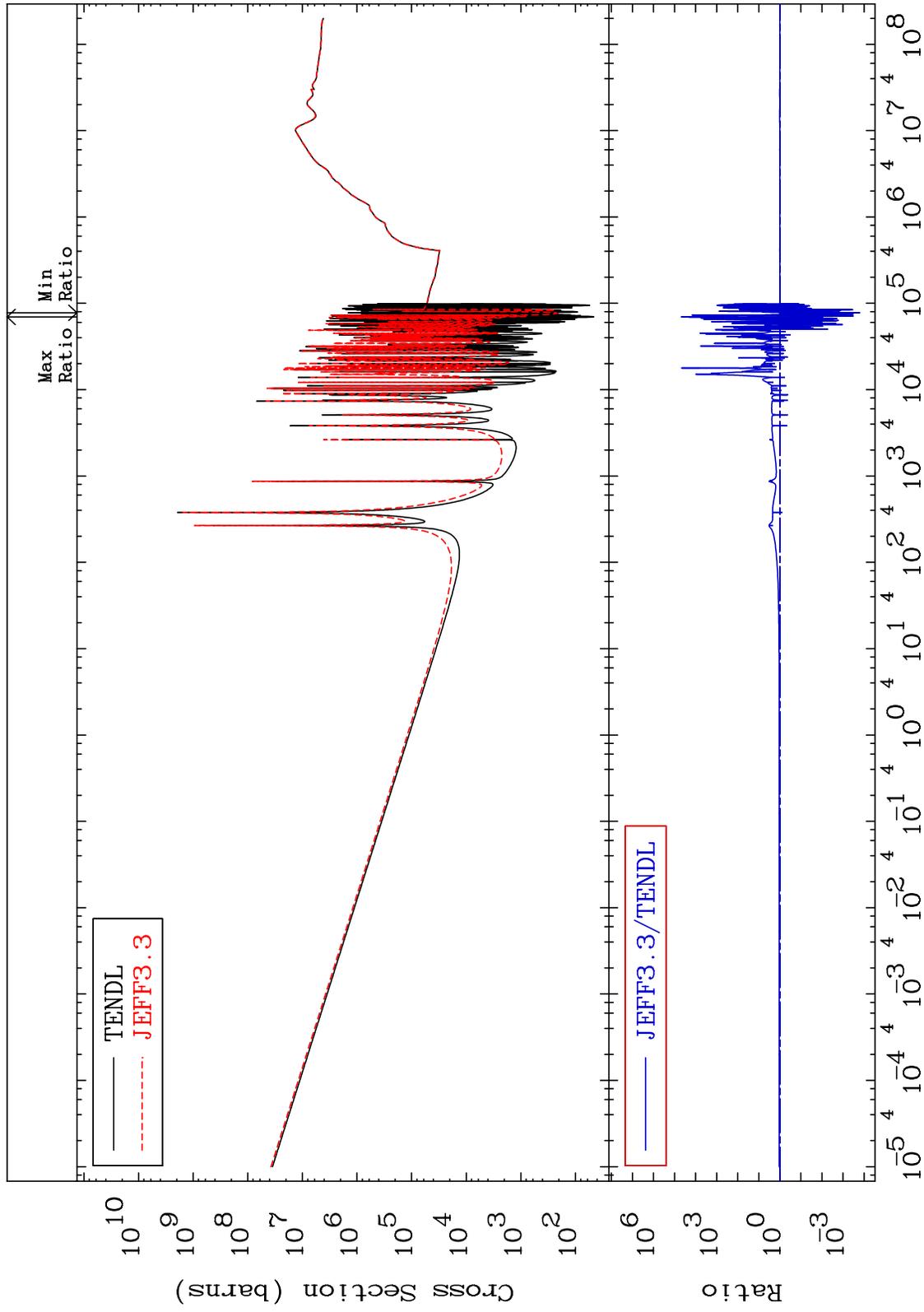
37-Rb-87
-99.98 To 9999. %



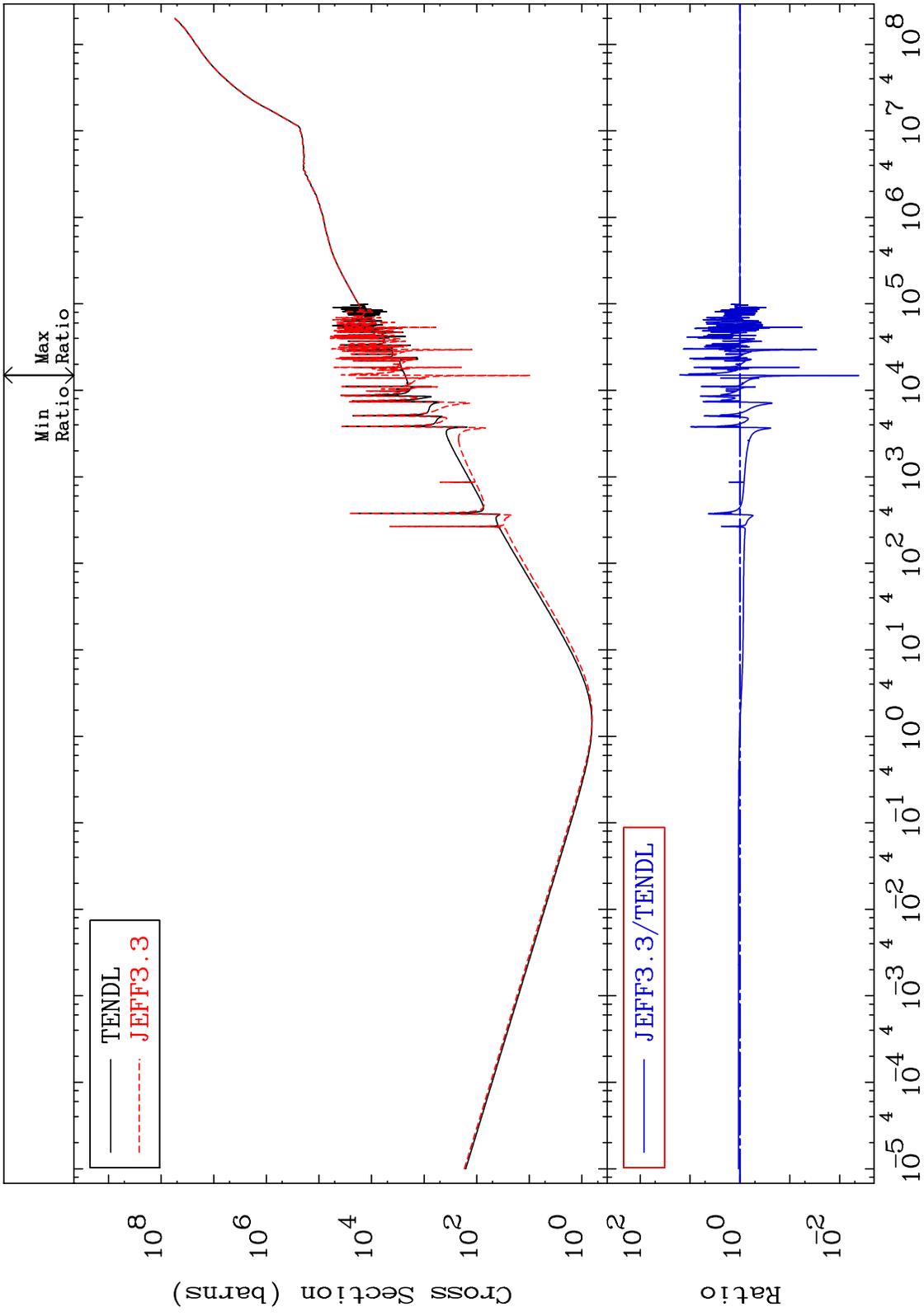
MAT 3731

Total photon (eV-barns)
Cross Section

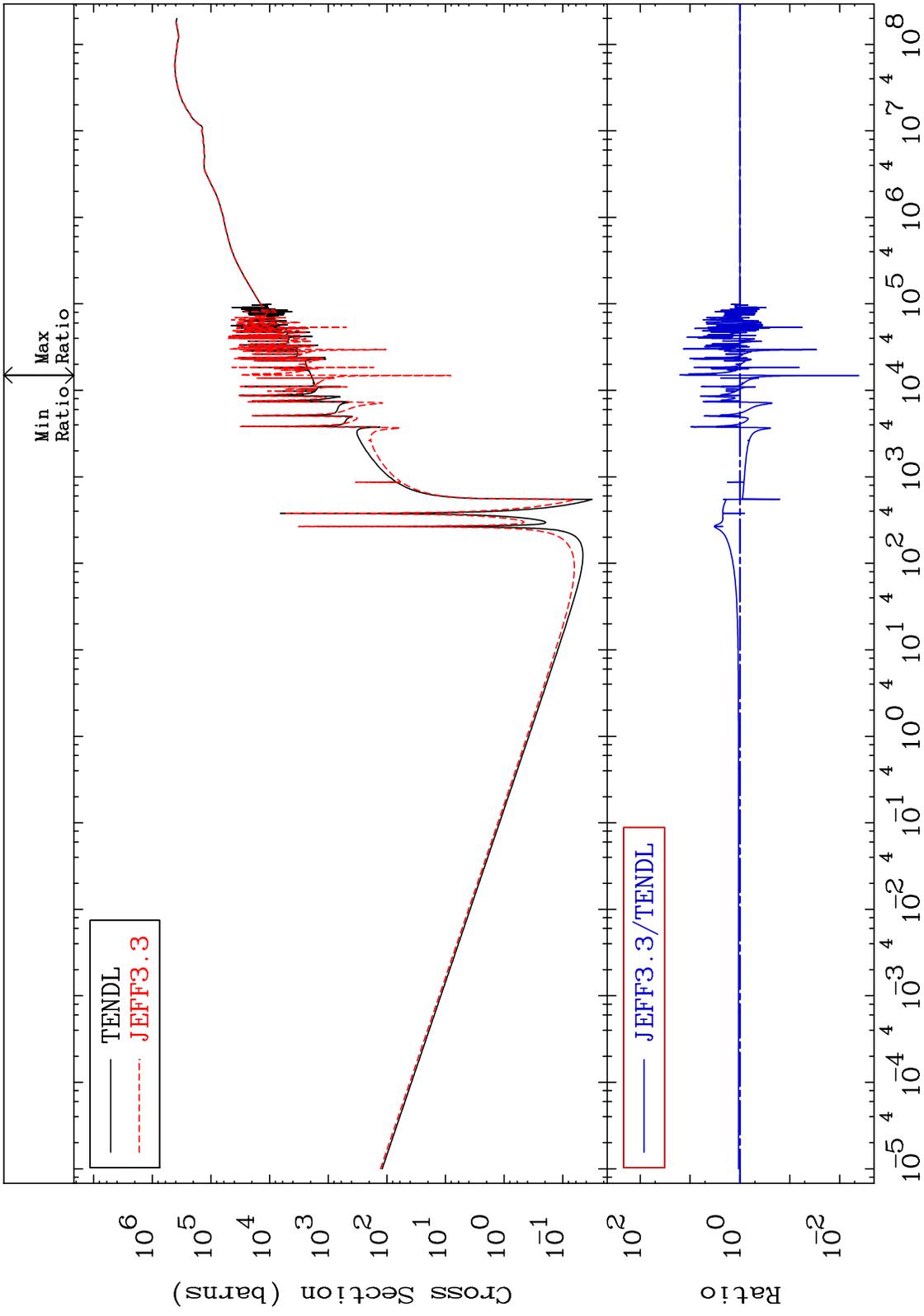
37-Rb-87
-99.98 To 9999. %



MAT 3731 Total kinematic kerma (high limit) 37-Rb-87
 Cross Section -99.58 To 1510. %



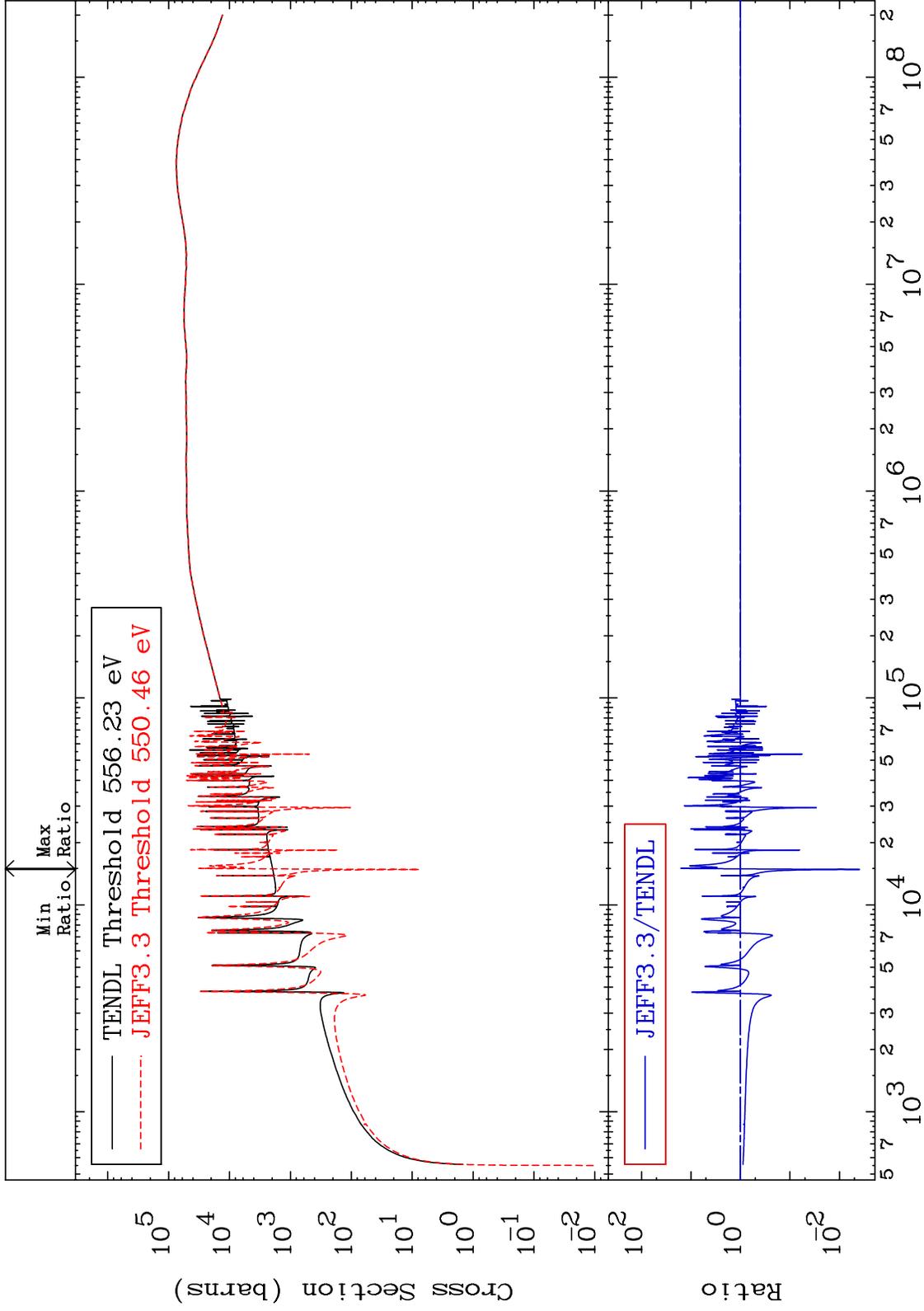
MAT 3731 Dpa total (eV-barns) 37-Rb-87
 Cross Section -99.59 To 1510. %



MAT 3731

Dpa elastic (mt2)
Cross Section

37-Rb-87
-99.61 To 1509. %



51

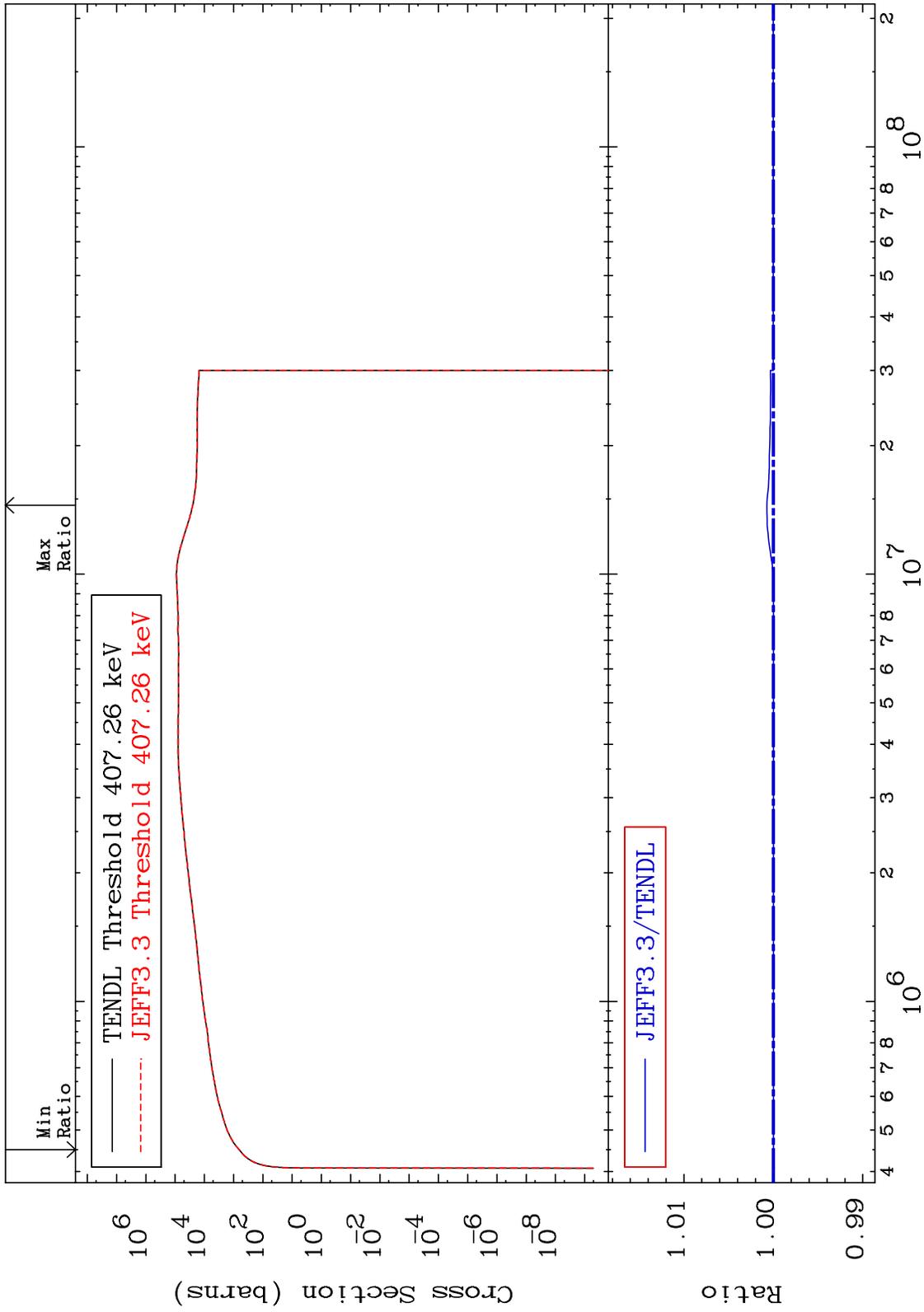
Incident Energy (eV)

37-Rb-87

MAT 3731

Dpa inelastic (mt51-91)
Cross Section

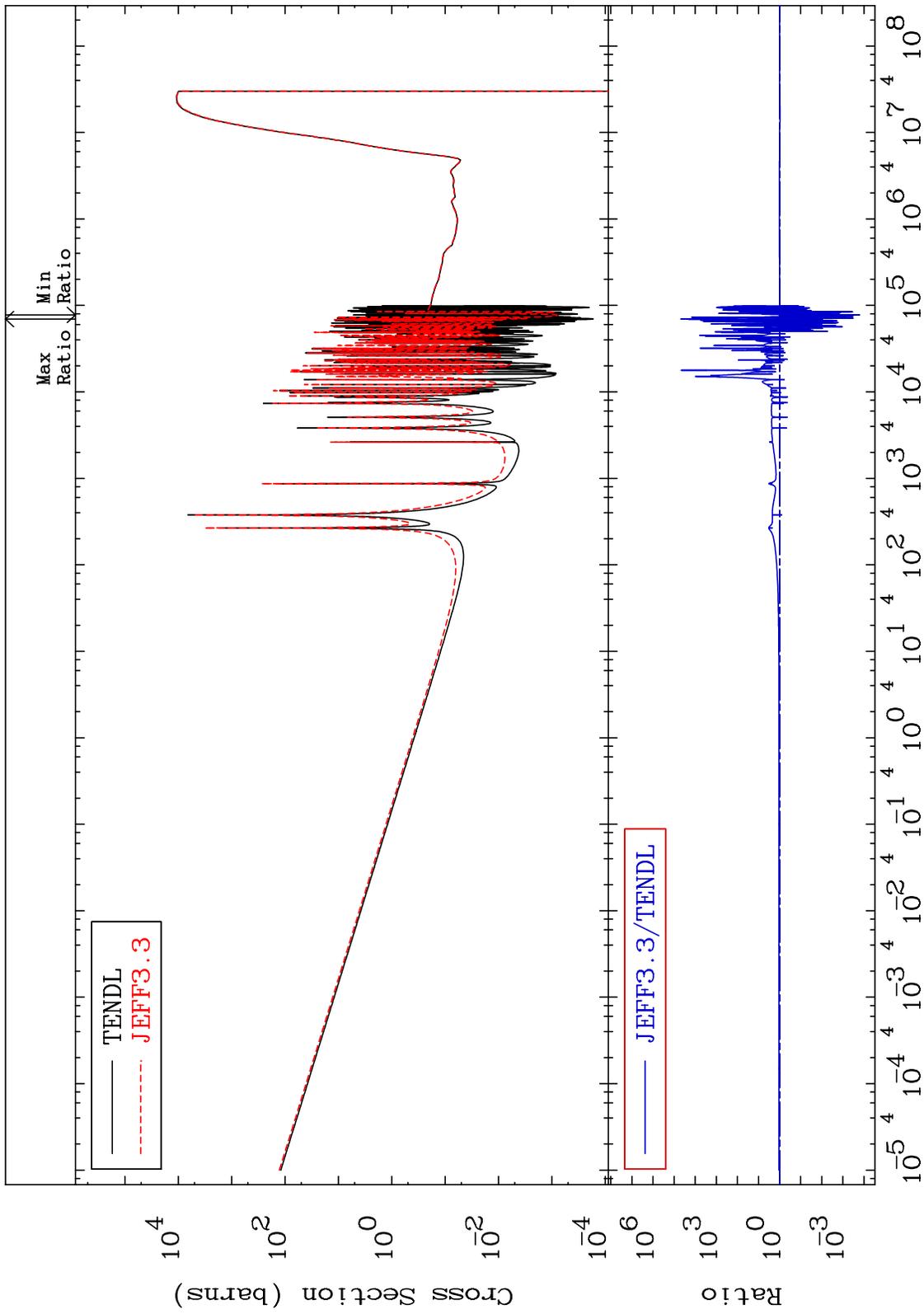
37-Rb-87
-0.002 To 0.072 %



MAT 3731

Dpa disappearance (mt102 -120)
Cross Section

37-Rb-87
-99.98 To 9999. %

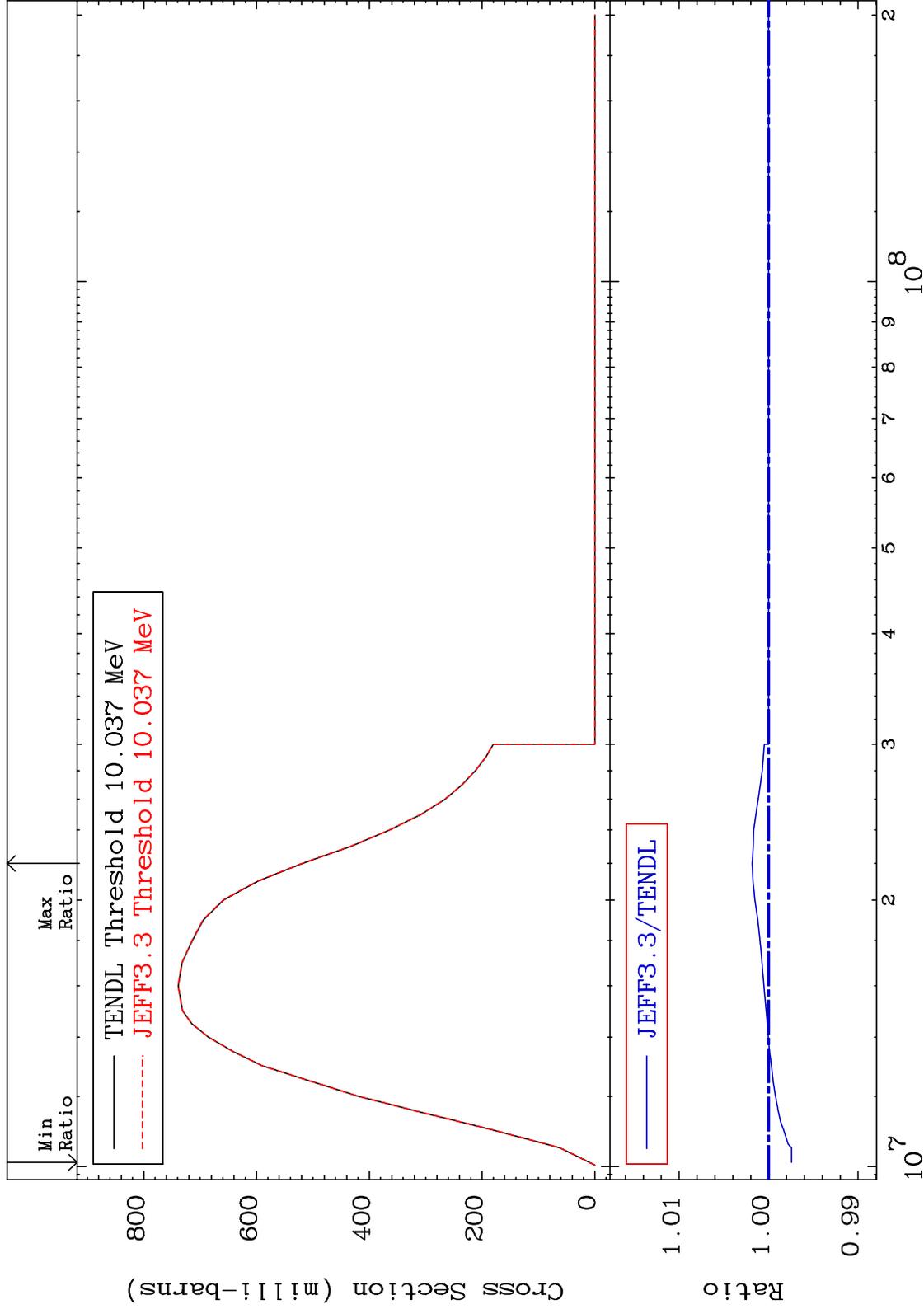


MAT 3731

(n,2n):37-Rb-86g

37-Rb-87

Radionuclide Production Cross Section -0.256 To 0.183 %



Incident Energy (eV)

37-Rb-87

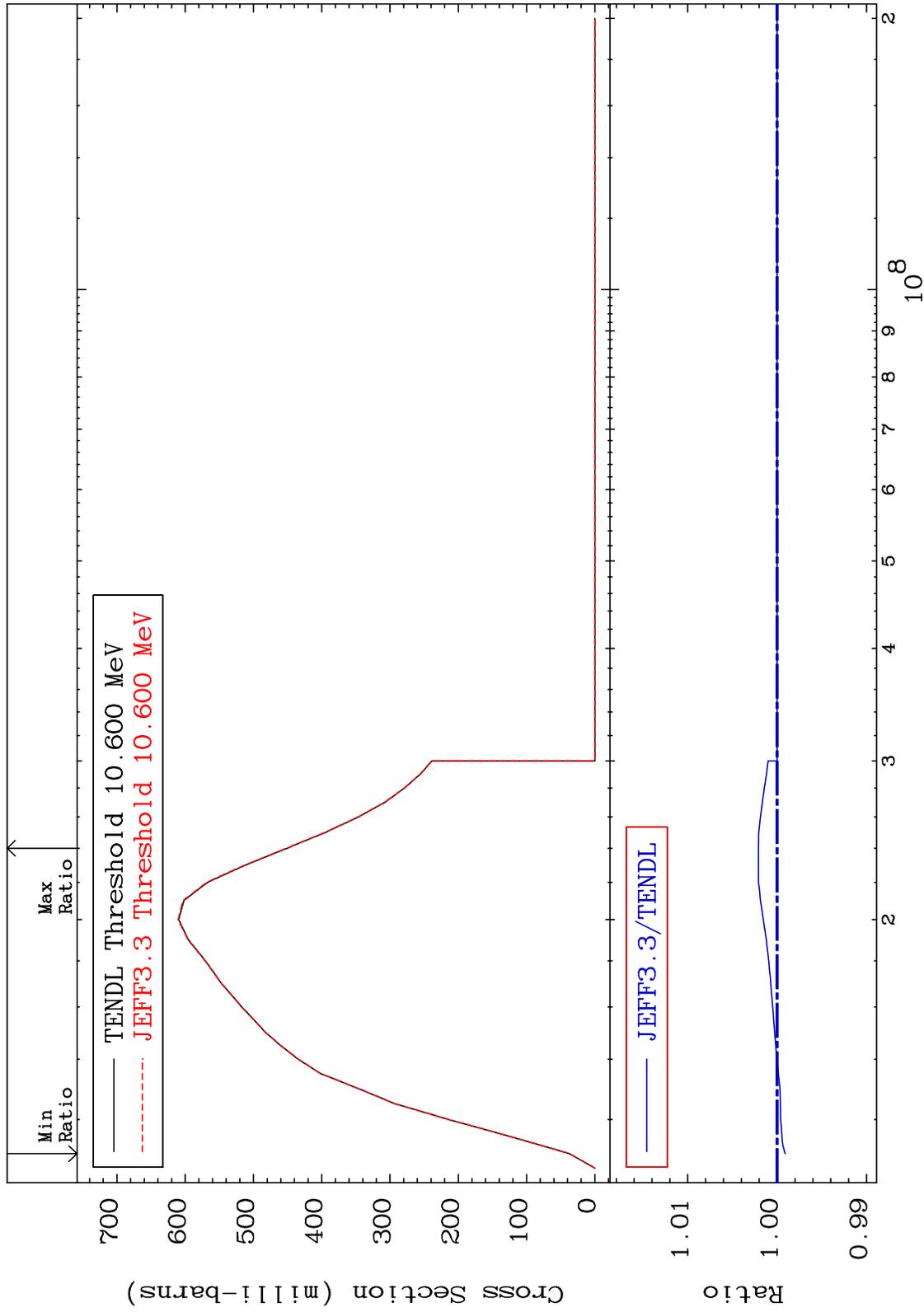
54

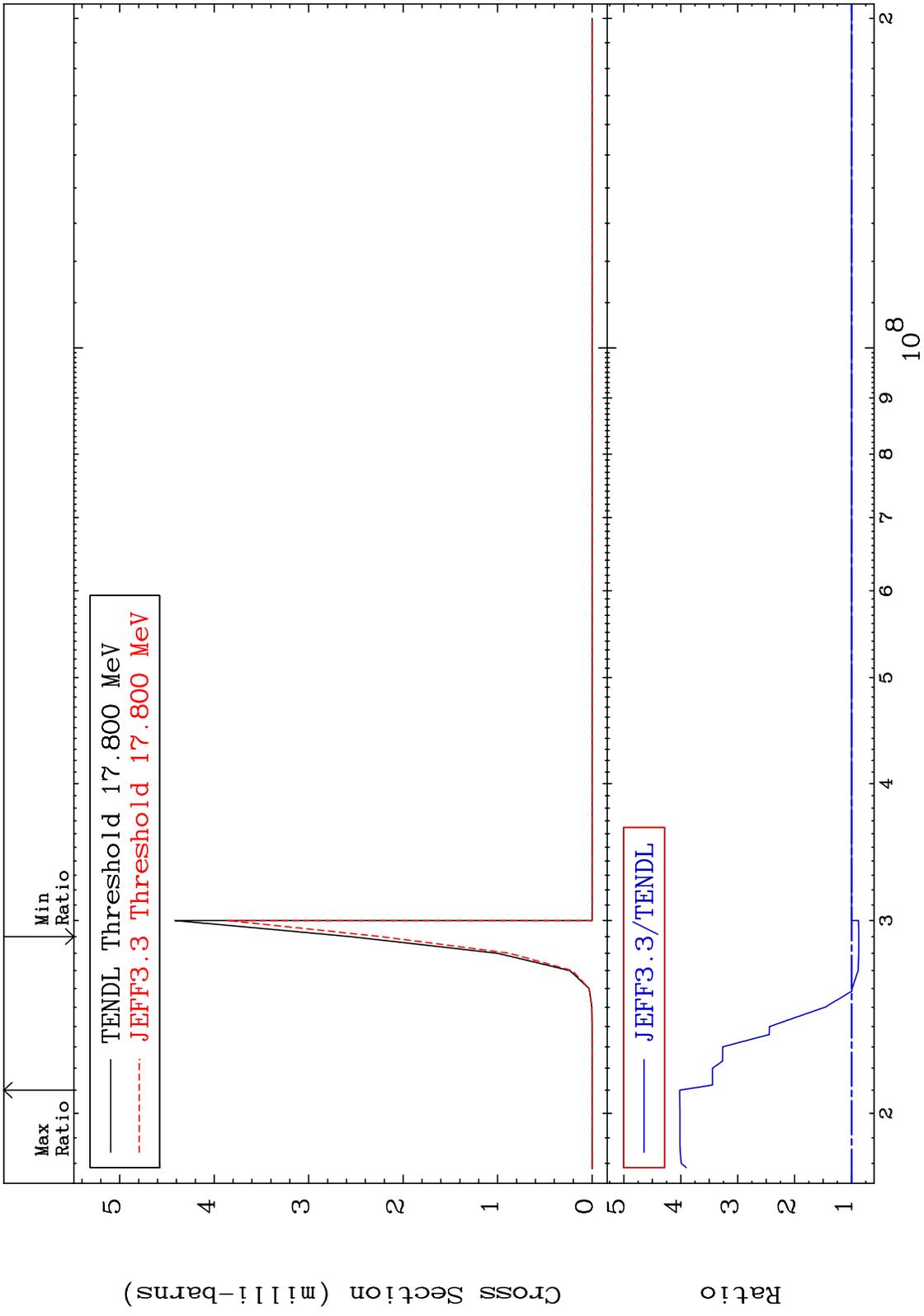
MAT 3731

(n,2n):37-Rb-86m2

37-Rb-87

Radionuclide Production Cross Section -0.092 To 0.209 %



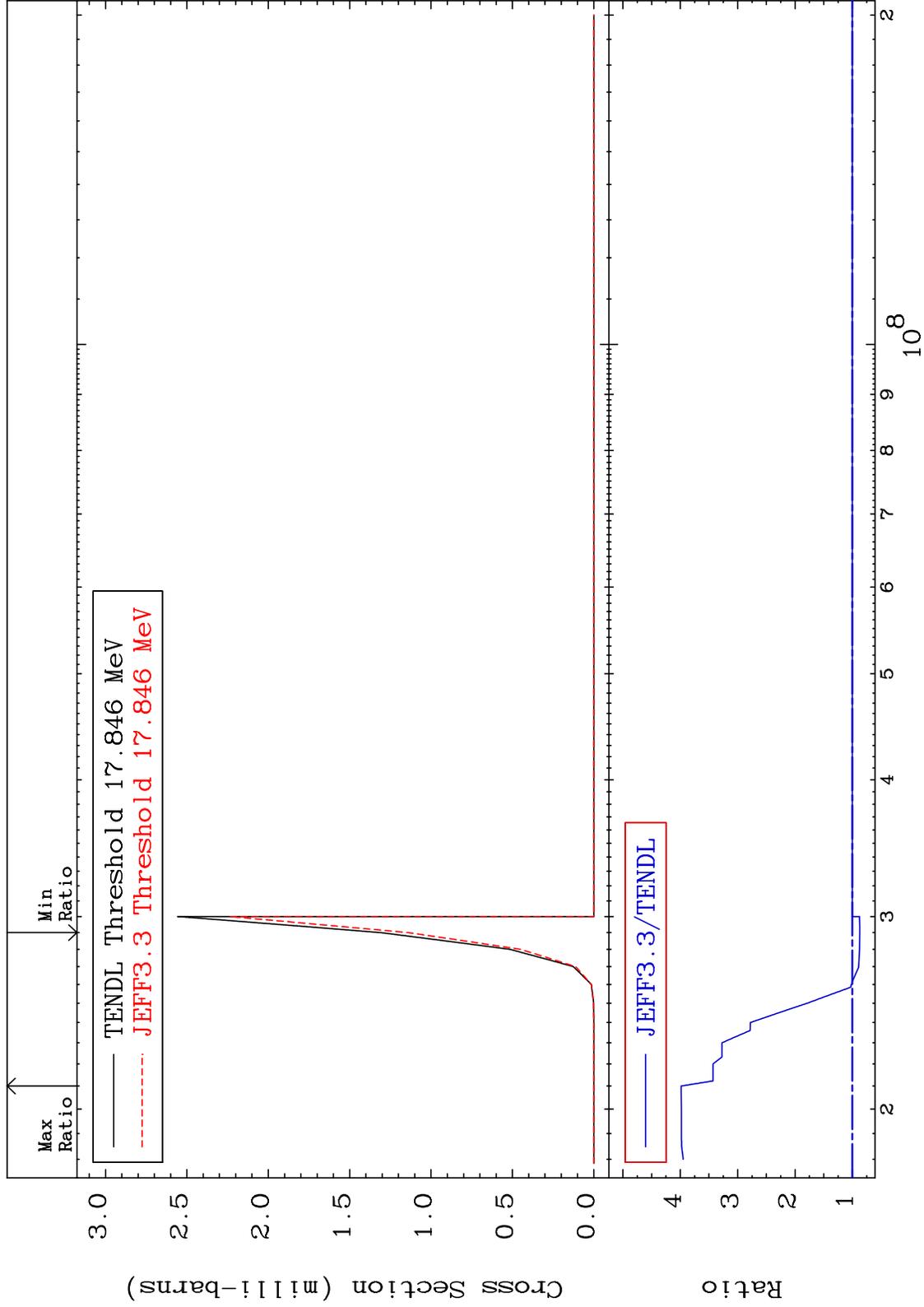


MAT 3731

(n,2n) α :35-Br-82m1

37-Rb-87

Radionuclide Production Cross Section -12.92 To 298.4 %



57

Incident Energy (eV)

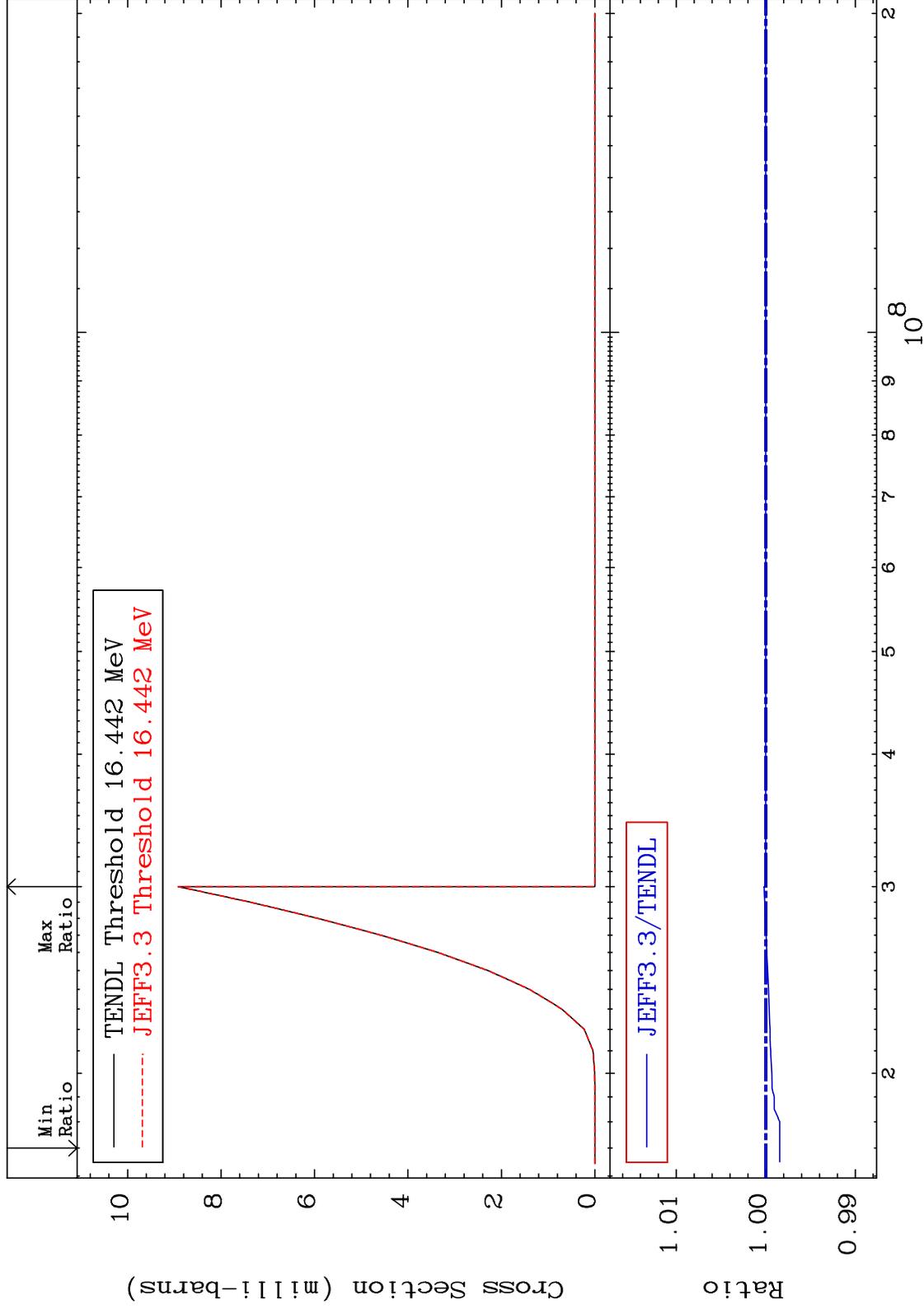
37-Rb-87

MAT 3731

(n, n') d:36-Kr-85g

37-Rb-87

Radionuclide Production Cross Section -0.156 To 0.020 %

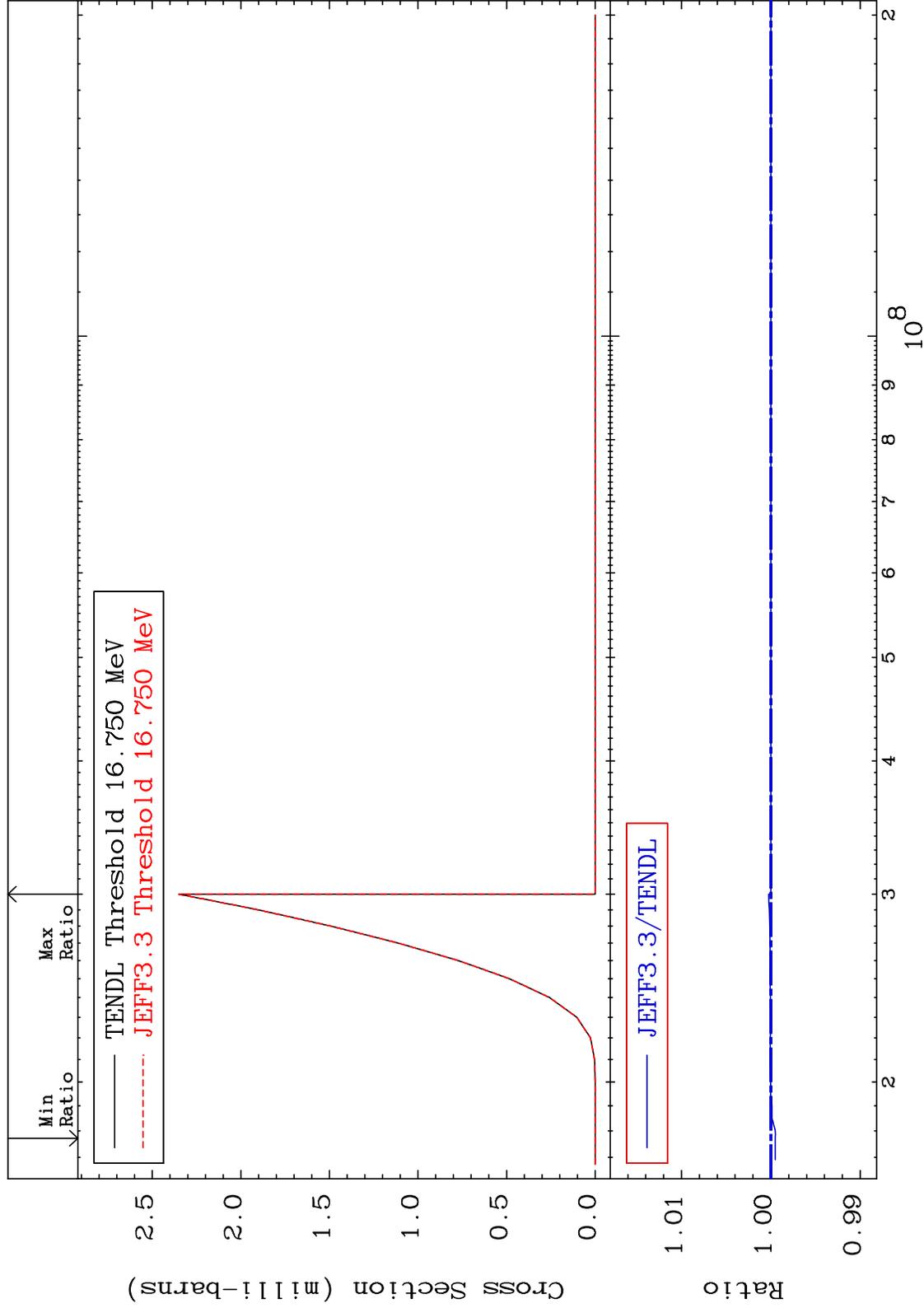


MAT 3731

(n, n') d:36-Kr-85m1

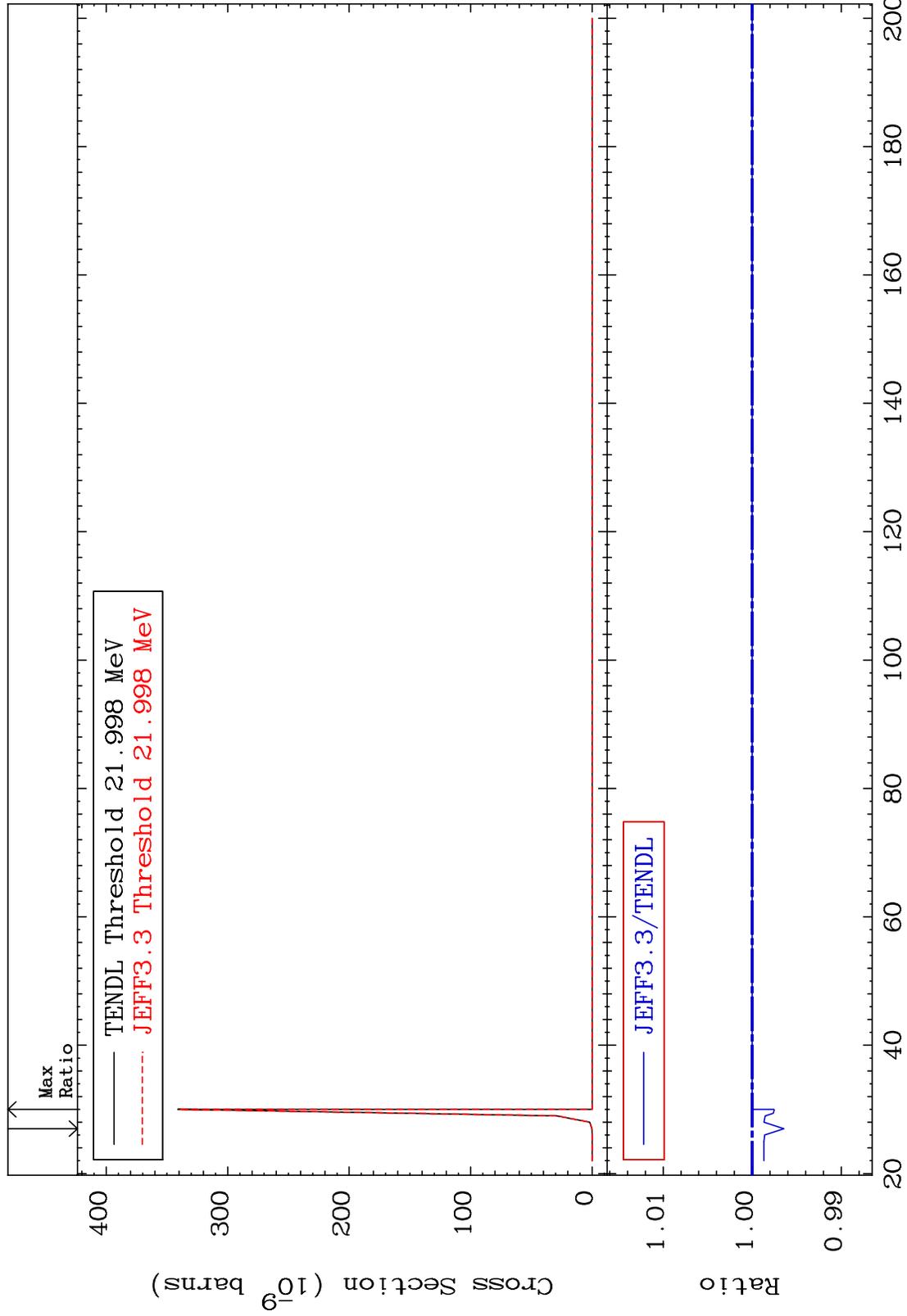
37-Rb-87

Radionuclide Production Cross Section -0.050 To 0.024 %



MAT 3731

(n,n') He-3:35-Br-84g 37-Rb-87
Radionuclide Production Cross Section -0.356 To 0.000 %



60

Incident Energy (MeV)

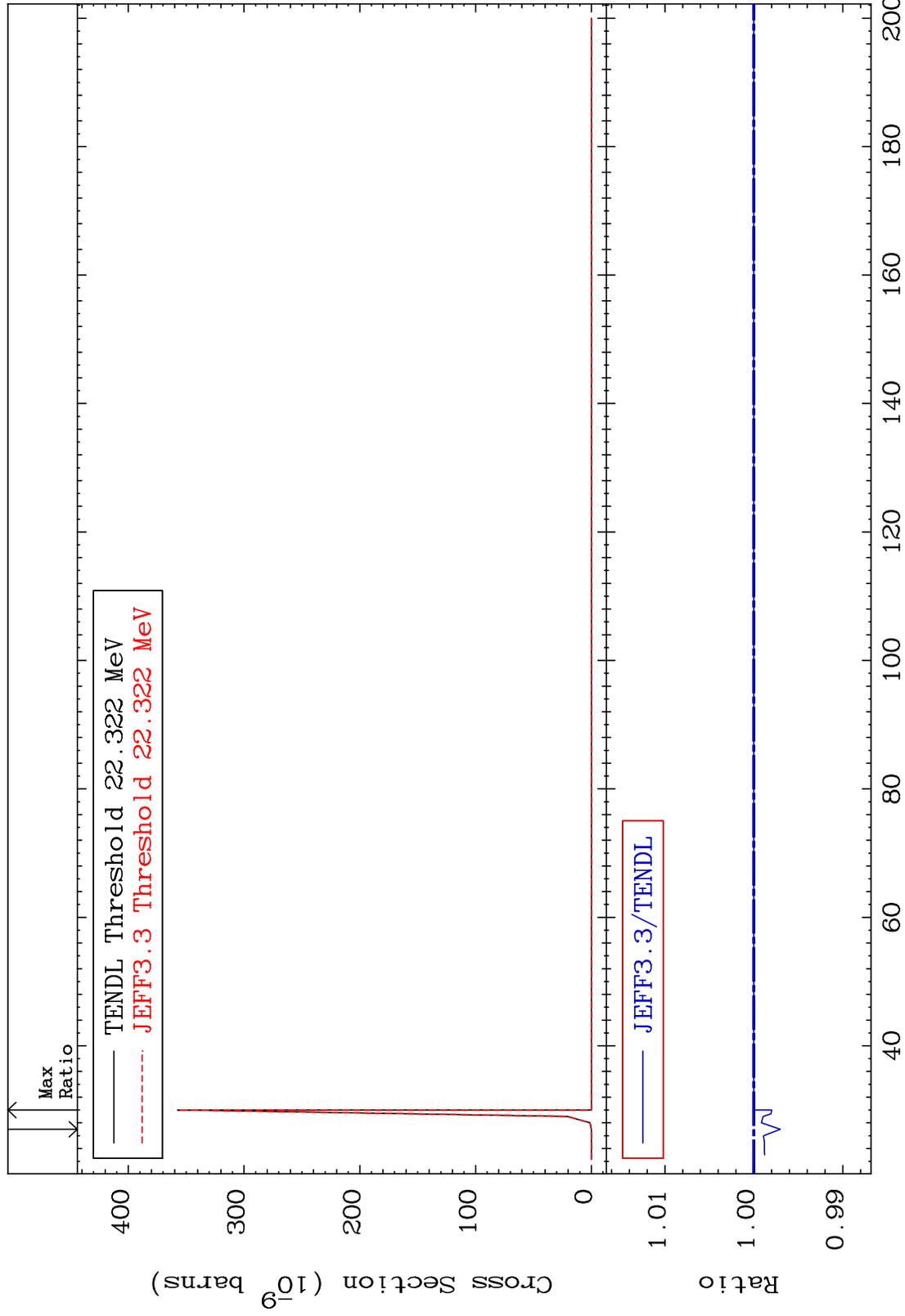
37-Rb-87

MAT 3731

(n,n') He-3:35-Br-84m1

37-Rb-87

Radionuclide Production Cross Section -0.298 To 0.000 %



61

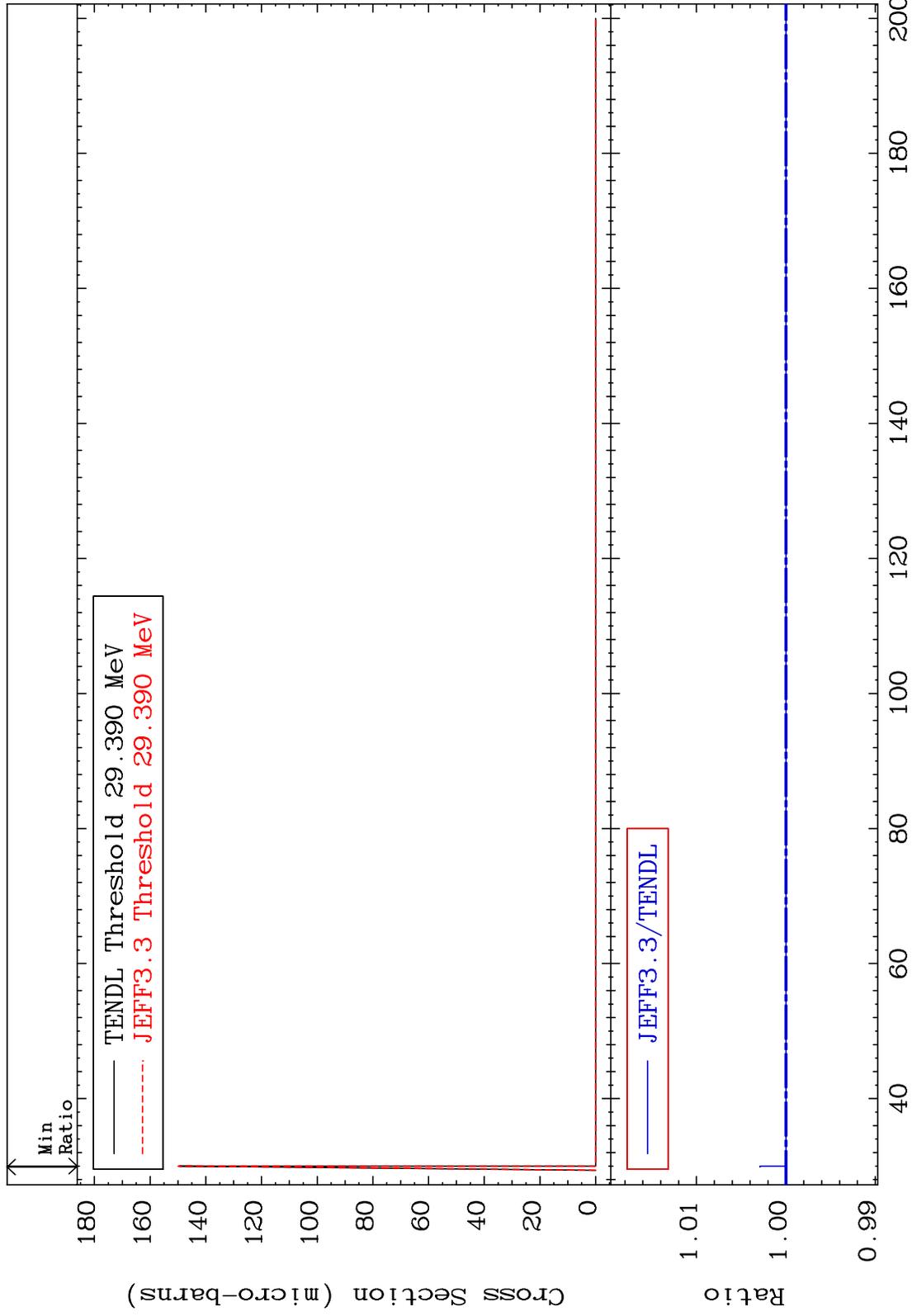
37-Rb-87

MAT 3731

(n,4n):37-Rb-84g

37-Rb-87

Radionuclide Production Cross Section 0.000 To 0.291 %



62

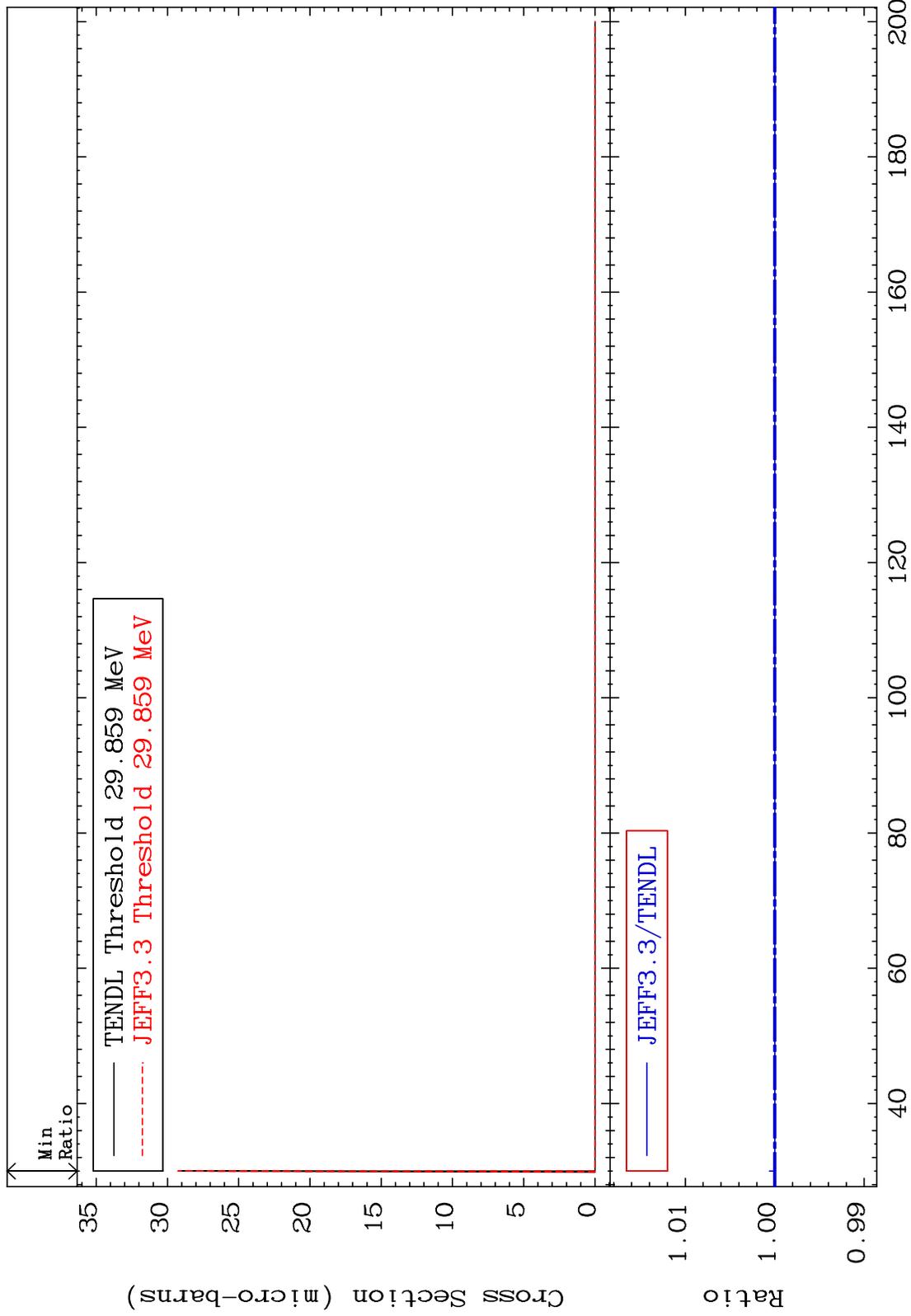
37-Rb-87

MAT 3731

(n, 4n) : 37-Rb-84m2

37-Rb-87

Radionuclide Production Cross Section 0.000 To 0.060 %



63

Incident Energy (MeV)

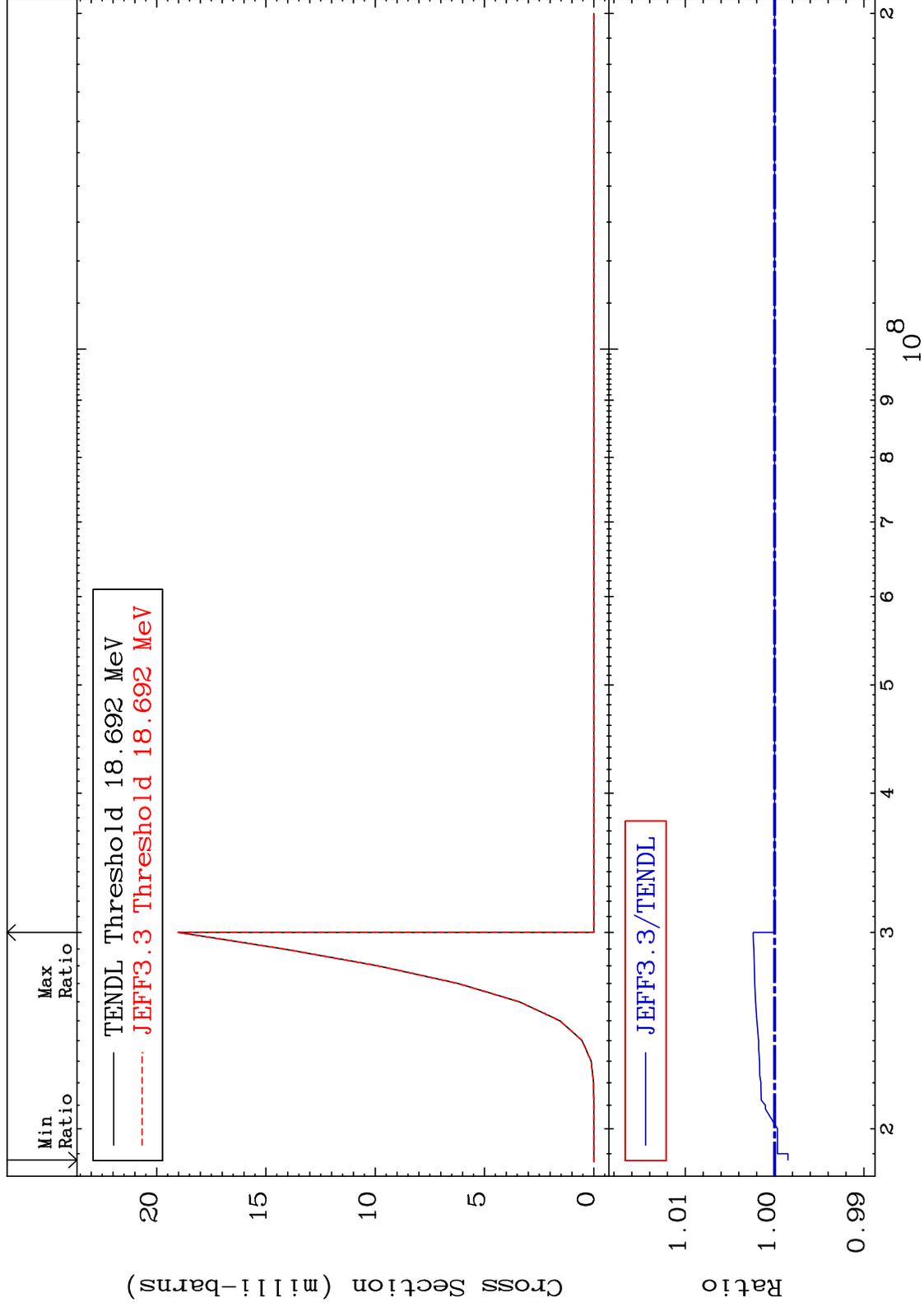
37-Rb-87

MAT 3731

(n,2n) p:36-Kr-85g

37-Rb-87

Radionuclide Production Cross Section -0.149 To 0.241 %



64

Incident Energy (eV)

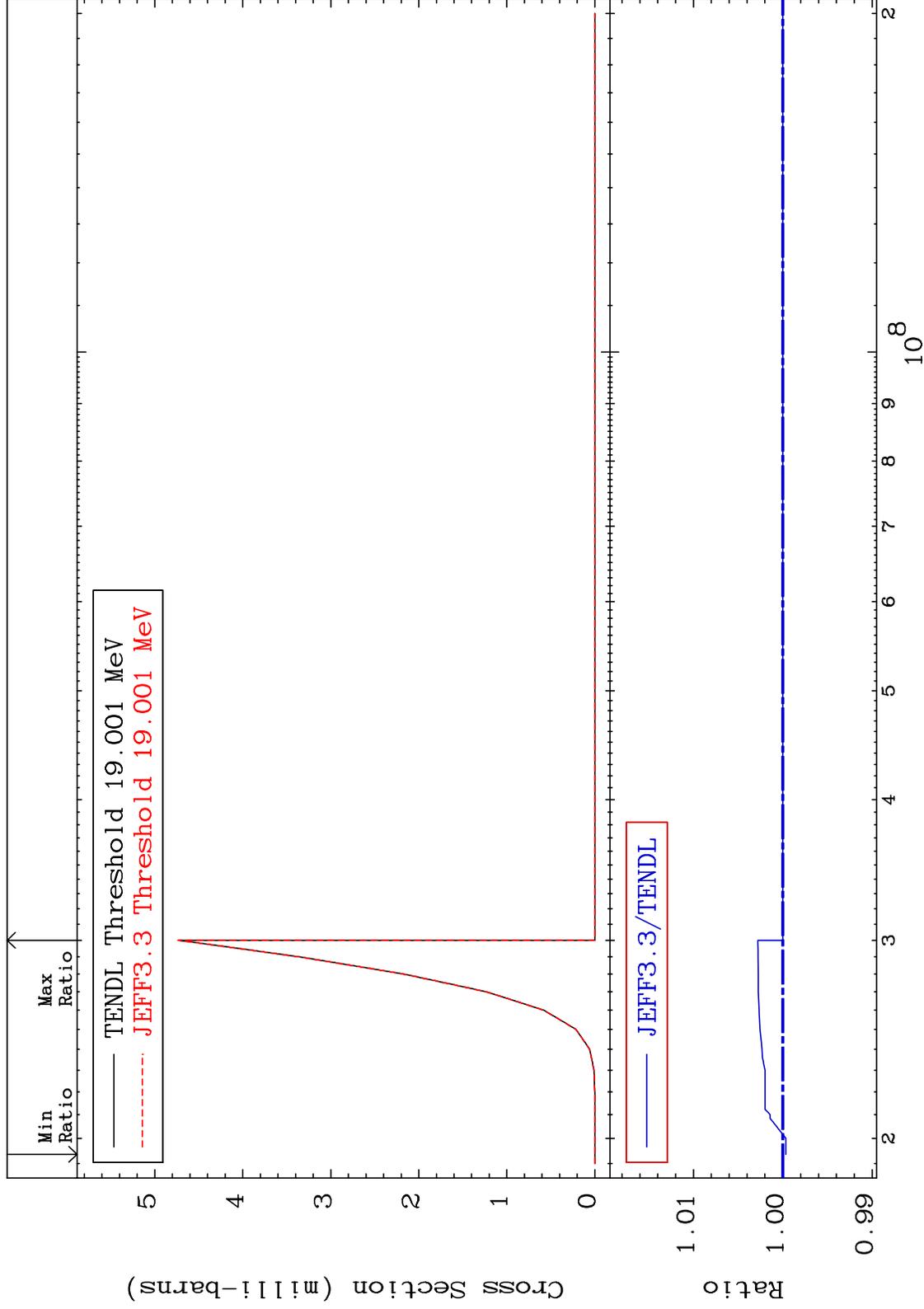
37-Rb-87

MAT 3731

(n,2n) p:36-Kr-85m1

37-Rb-87

Radionuclide Production Cross Section -0.034 To 0.279 %



65

Incident Energy (eV)

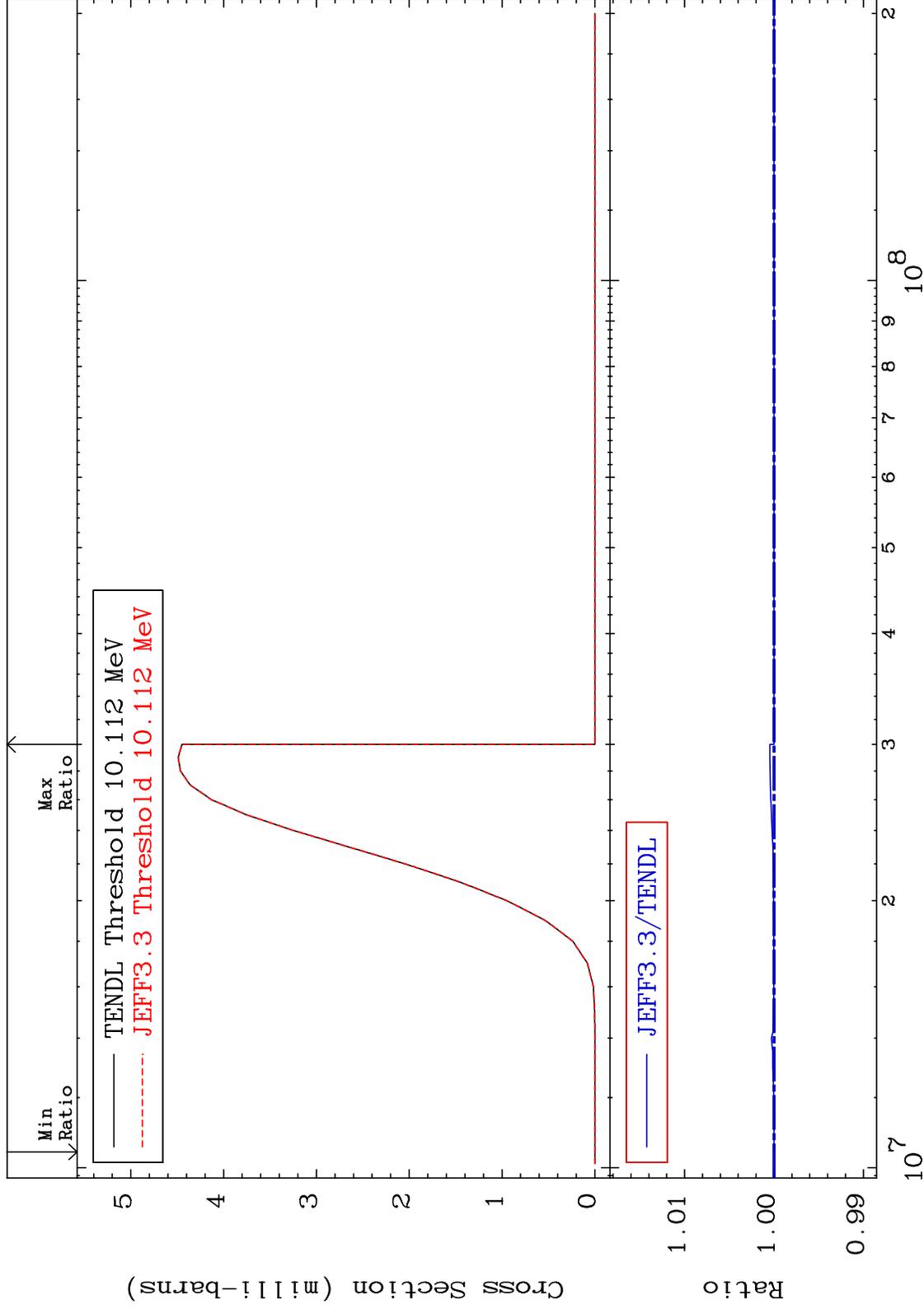
37-Rb-87

MAT 3731

(n, t) : 36-Kr-85g

37-Rb-87

Radionuclide Production Cross Section 0.000 To 0.047 %



66

Incident Energy (eV)

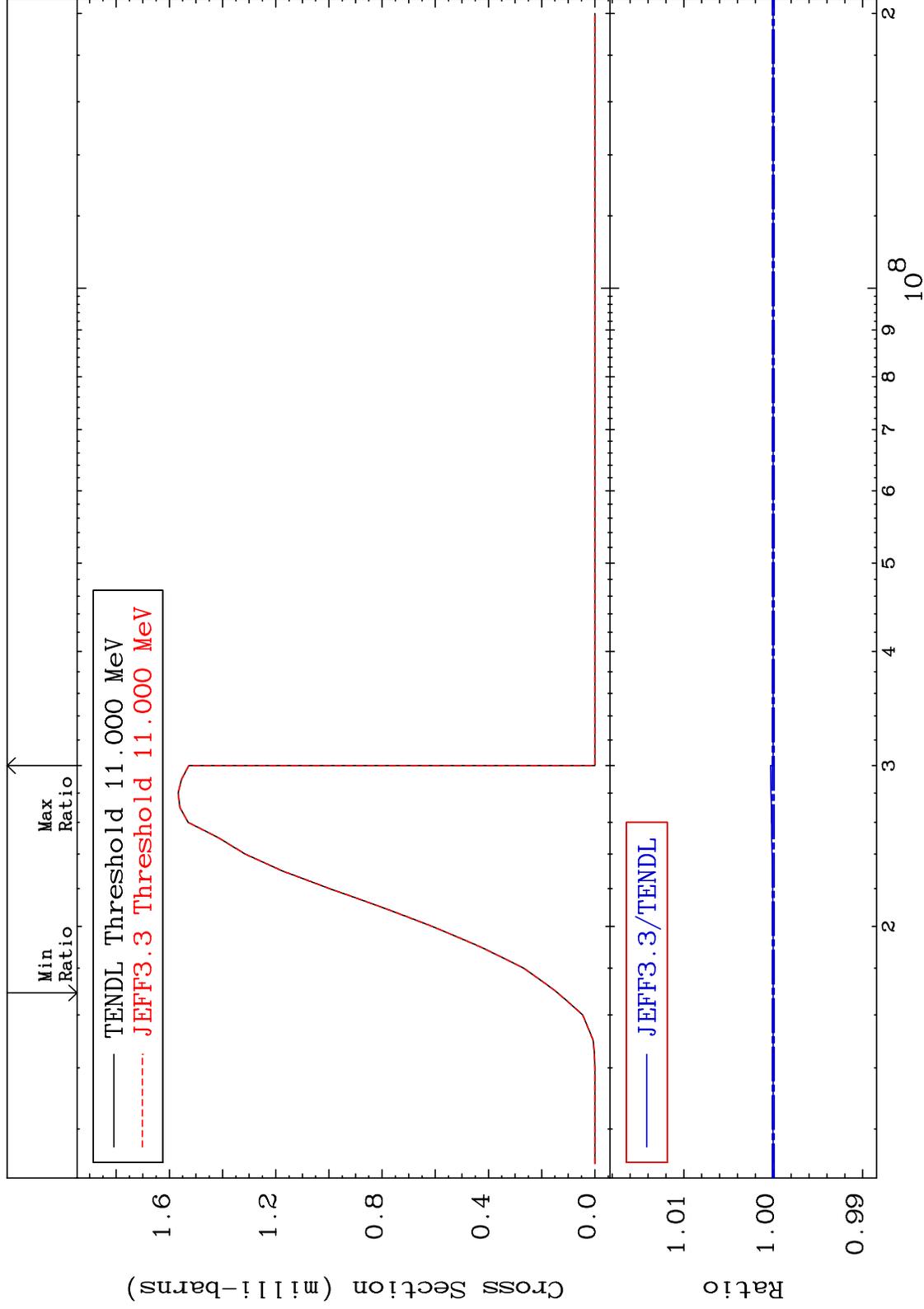
37-Rb-87

MAT 3731

(n, t) : 36-Kr-85m1

37-Rb-87

Radionuclide Production Cross Section 0.000 To 0.030 %



67

Incident Energy (eV)

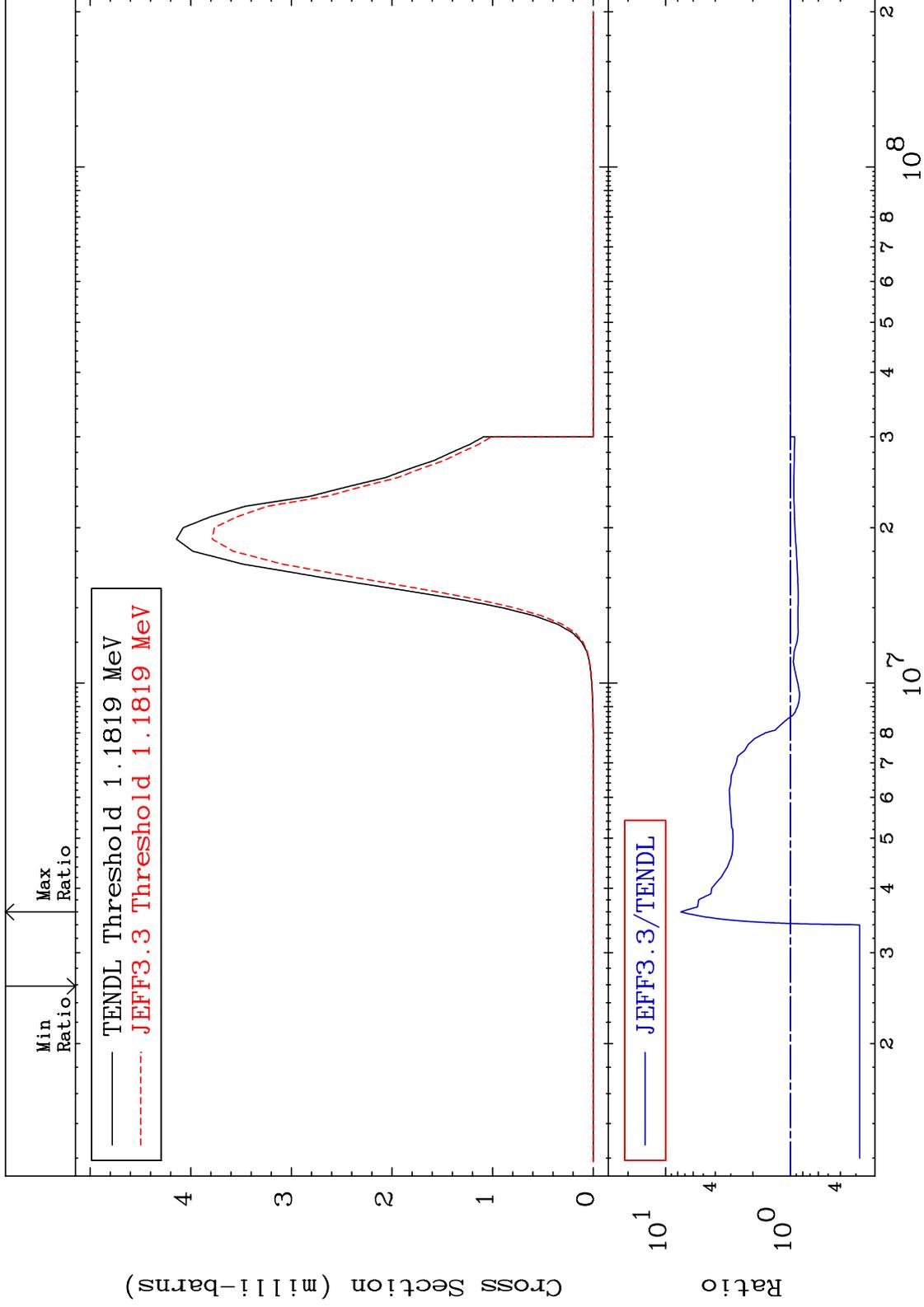
37-Rb-87

MAT 3731

(n, α): 35-Br-84g

37-Rb-87

Radionuclide Production Cross Section -72.00 To 655.2 %



68

Incident Energy (eV)

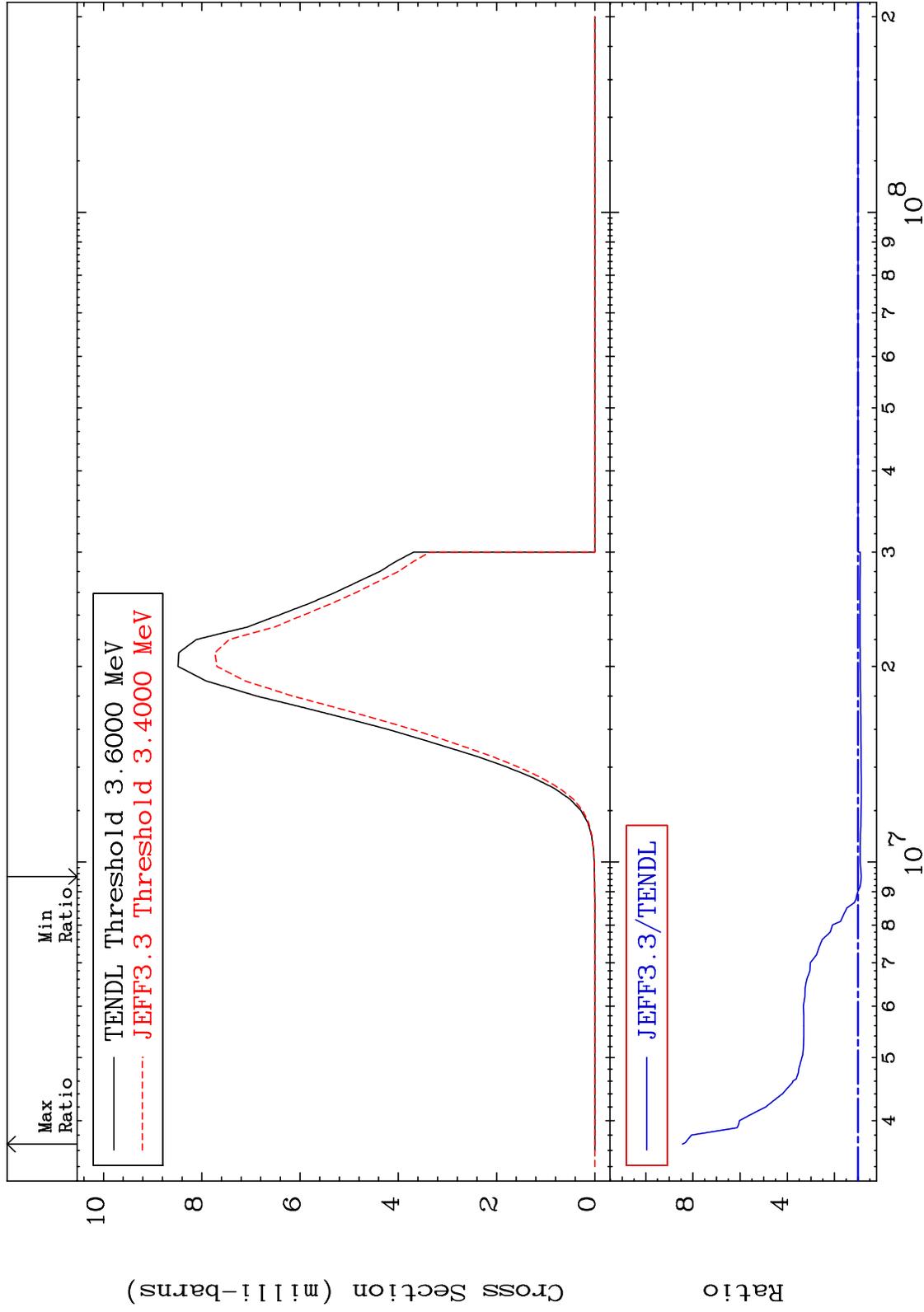
37-Rb-87

MAT 3731

(n, α): 35-Br-84m1

37-Rb-87

Radionuclide Production Cross Section -13.82 To 744.4 %



69

Incident Energy (eV)

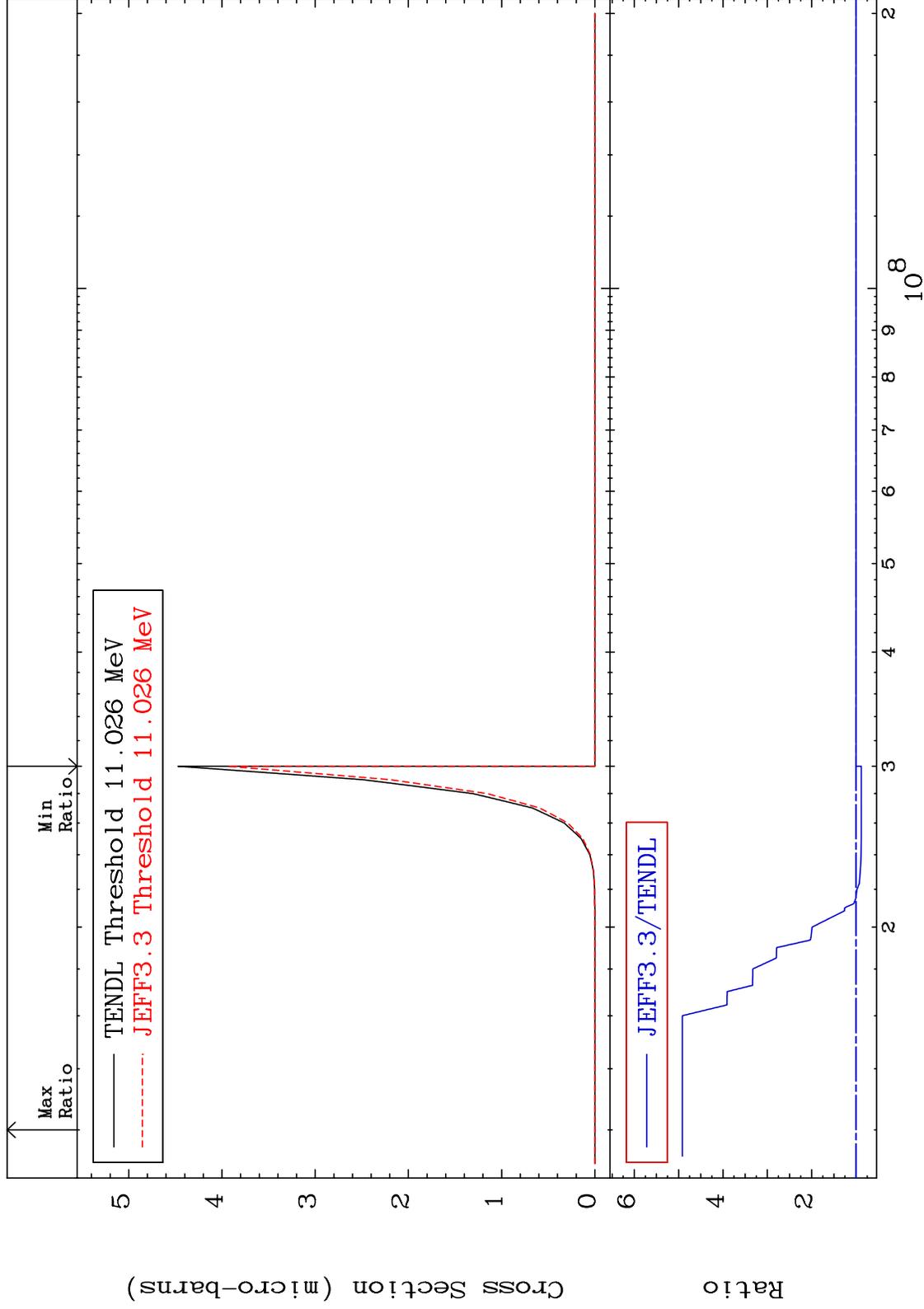
37-Rb-87

MAT 3731

(n,p) α :34-Se-83g

37-Rb-87

Radionuclide Production Cross Section -11.90 To 391.3 %



70

Incident Energy (eV)

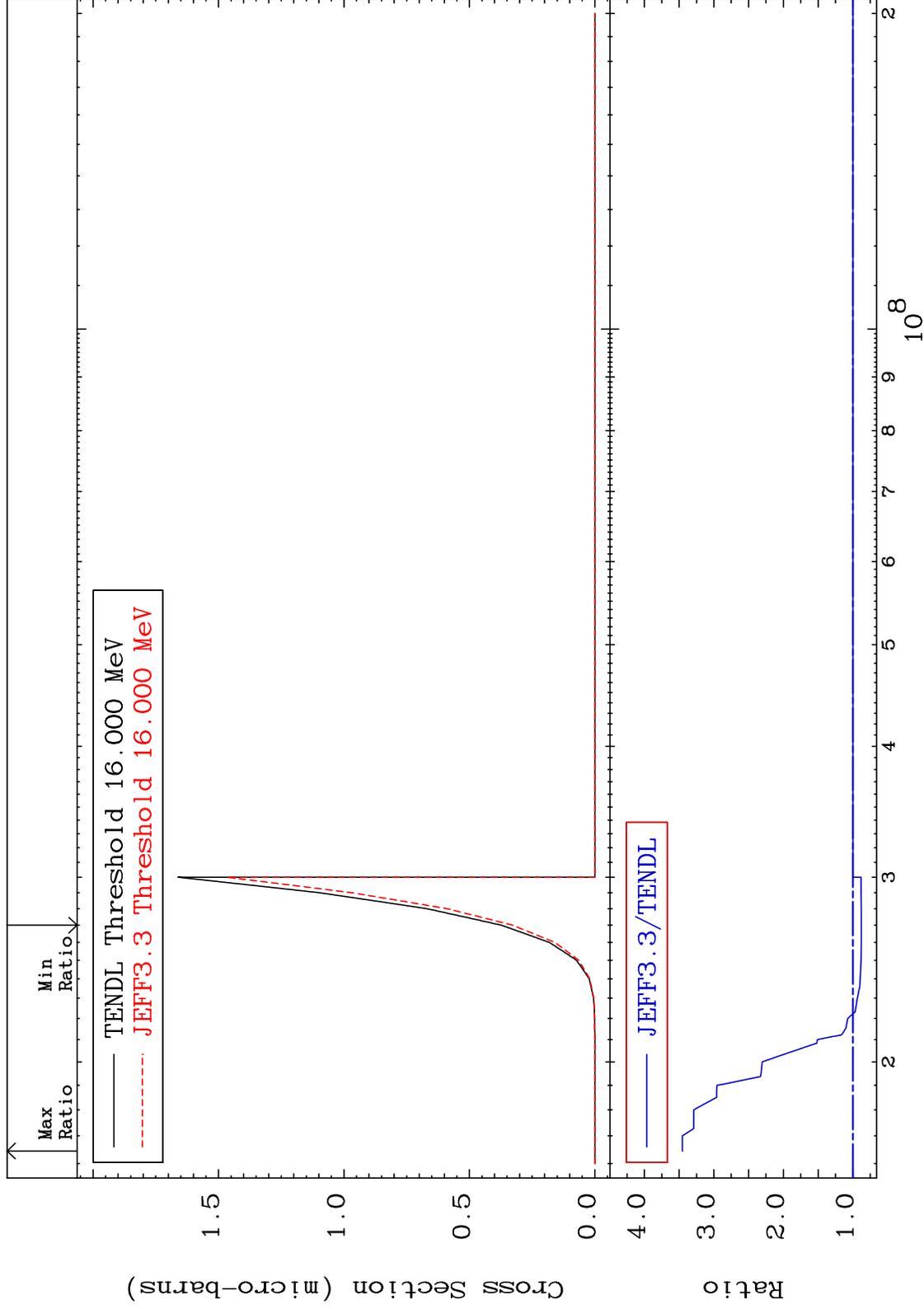
37-Rb-87

MAT 3731

(n,p) α :34-Se-83m1

37-Rb-87

Radionuclide Production Cross Section -12.07 To 245.2 %

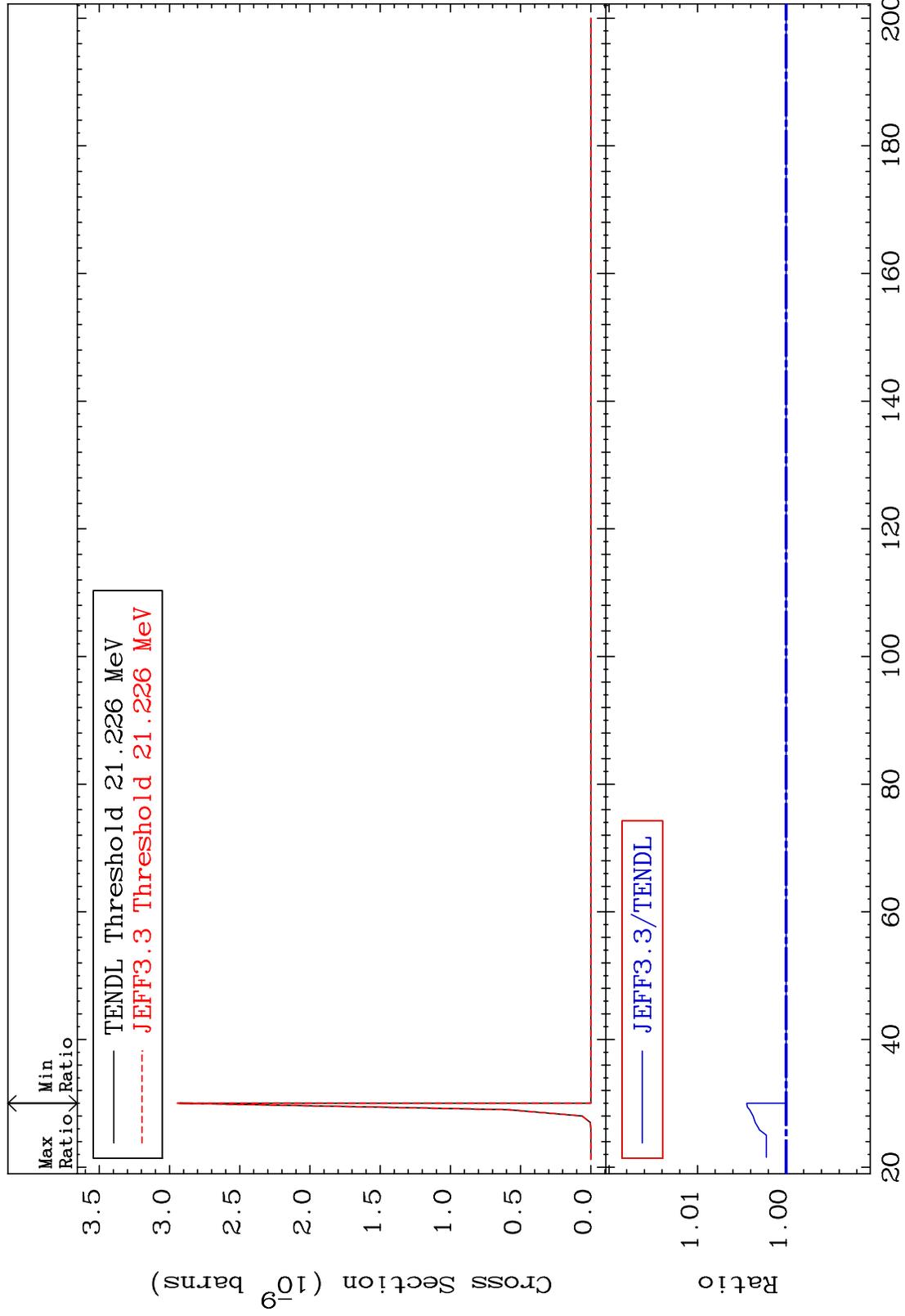


MAT 3731

(n, p) t:35-Br-84g

37-Rb-87

Radionuclide Production Cross Section 0.000 To 0.444 %



72

Incident Energy (MeV)

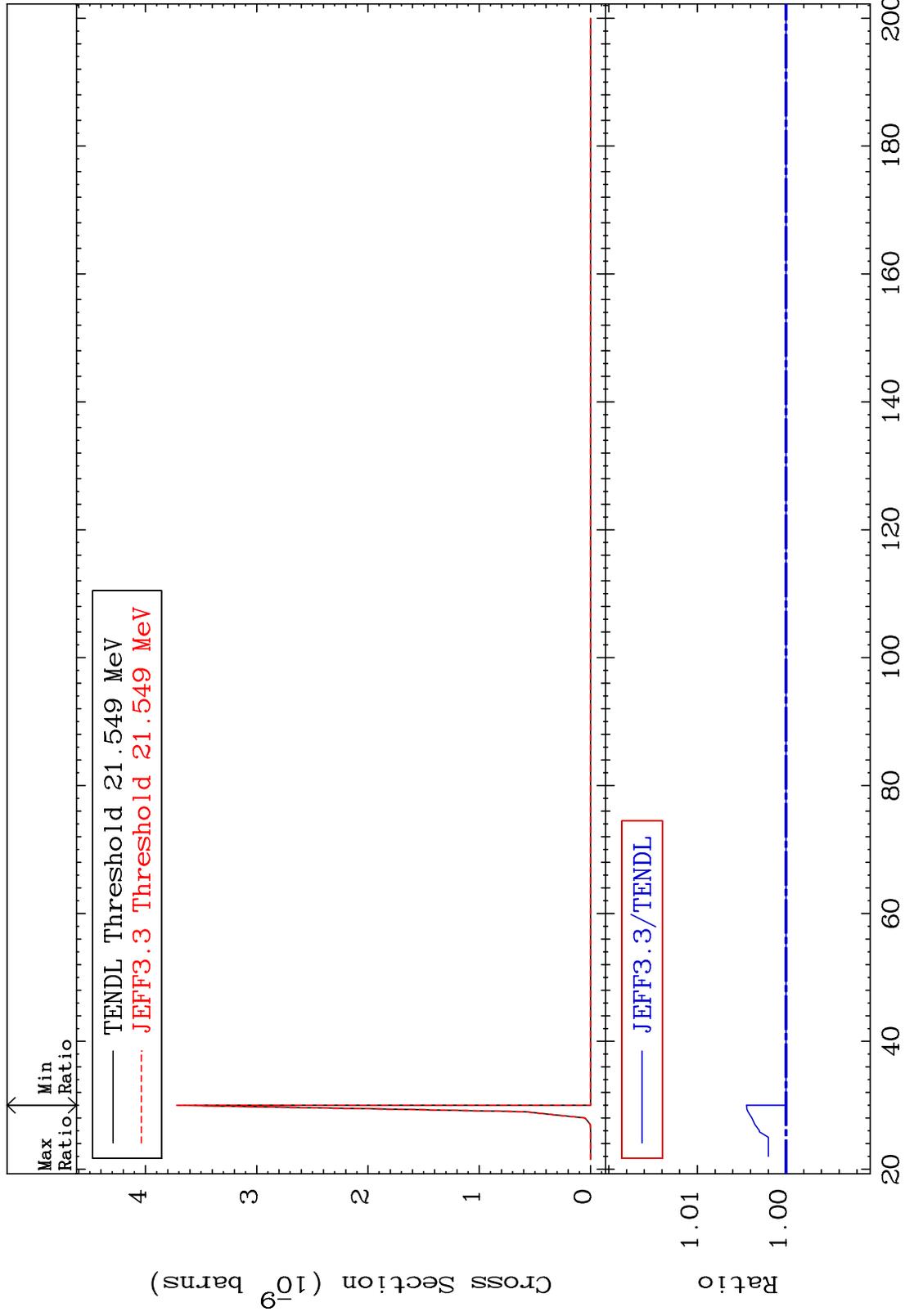
37-Rb-87

MAT 3731

(n,p) t:35-Br-84m1

37-Rb-87

Radionuclide Production Cross Section 0.000 To 0.445 %



73

Incident Energy (MeV)

37-Rb-87