

Program Complot  
(Version 2018-1)

by

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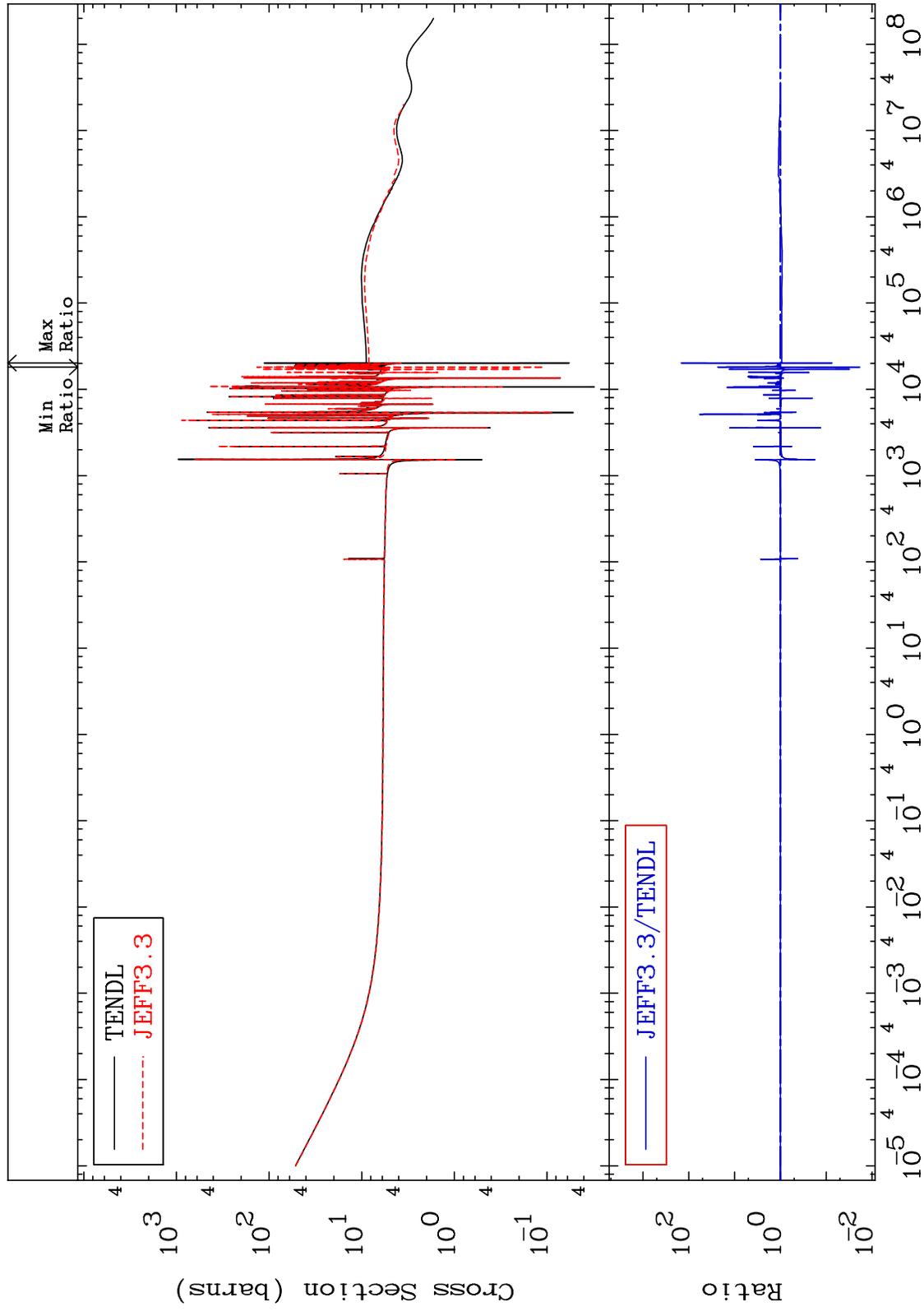
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 4231

Total  
Cross Section

42-Mo-94  
-98.16 To 9999. %



1

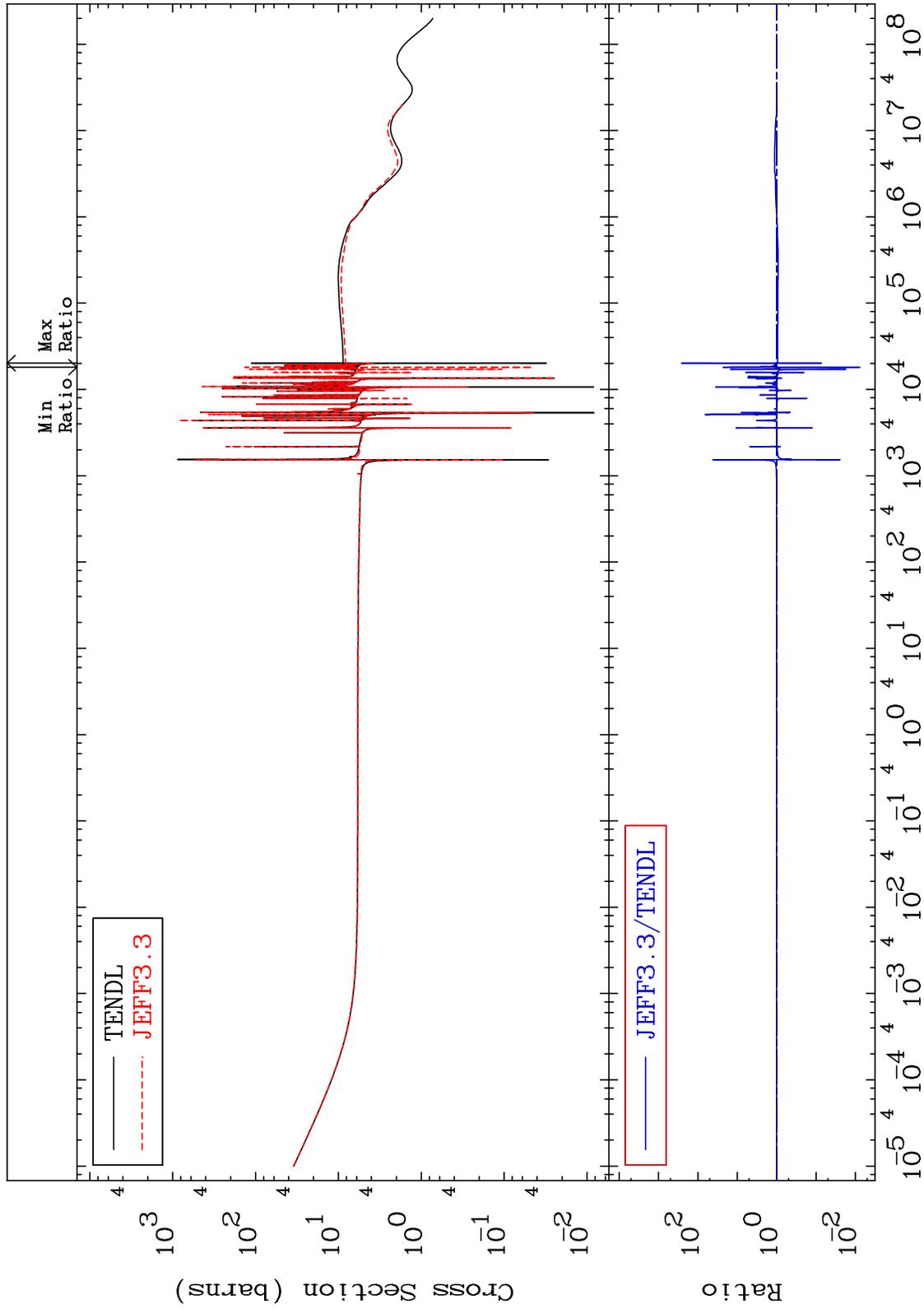
Incident Energy (eV)

42-Mo-94

MAT 4231

Elastic  
Cross Section

42-Mo-94  
-99.23 To 9999. %



2

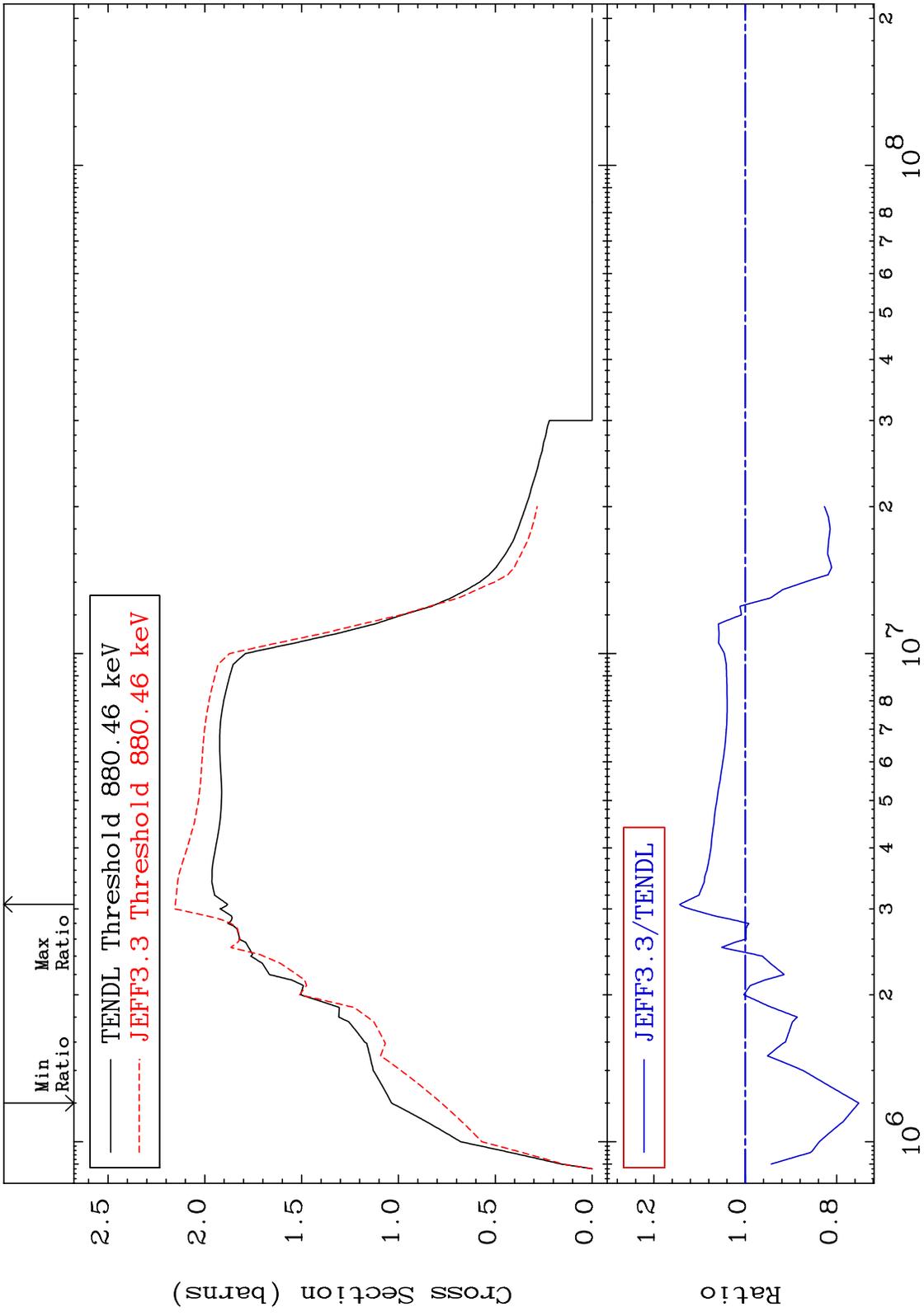
Incident Energy (eV)

42-Mo-94

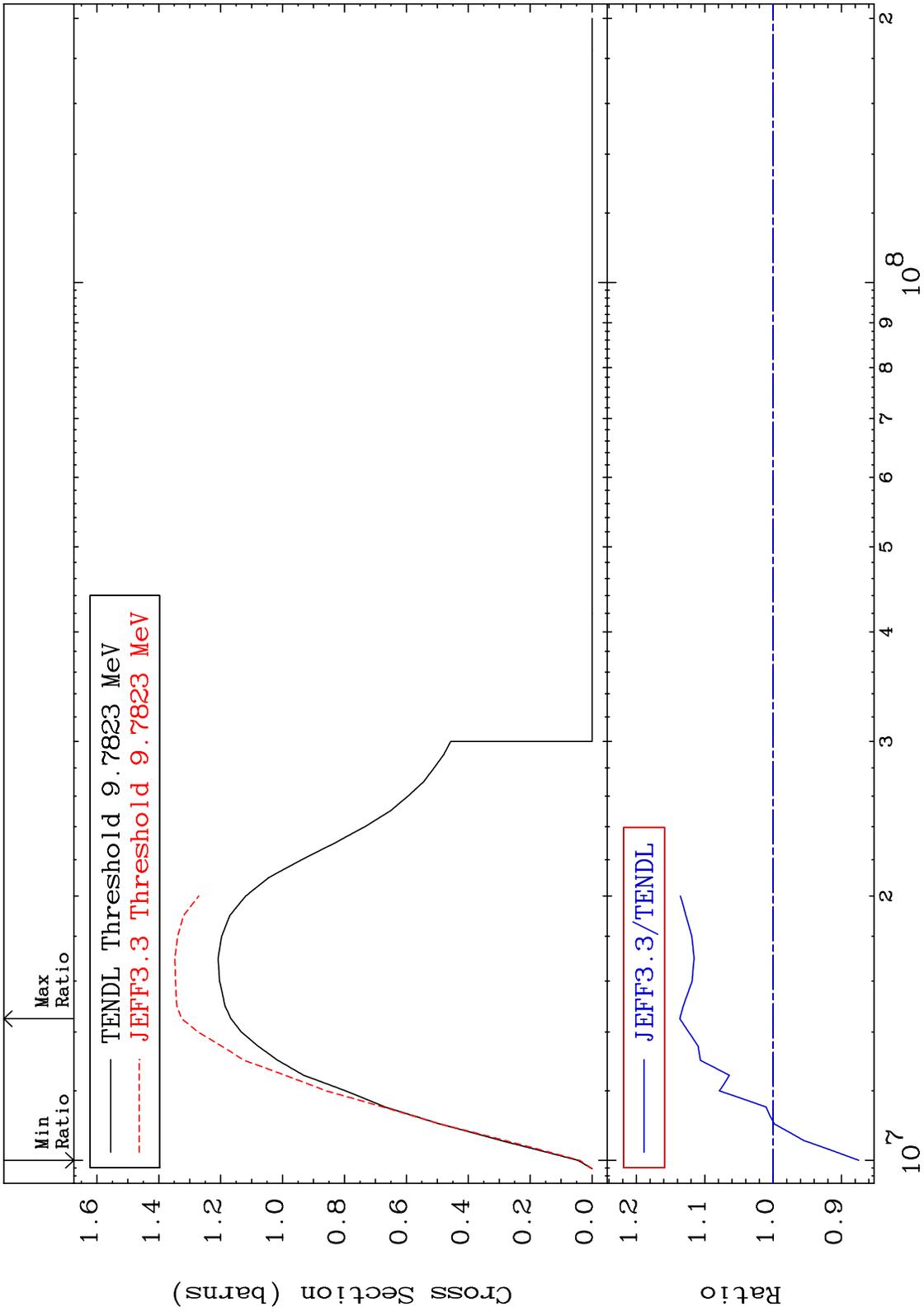
MAT 4231

Inelastic  
Cross Section

42-Mo-94  
-24.83 To 14.34 %



MAT 4231 (n,2n) Cross Section 42-Mo-94 -12.53 To 13.66 %



42-Mo-94

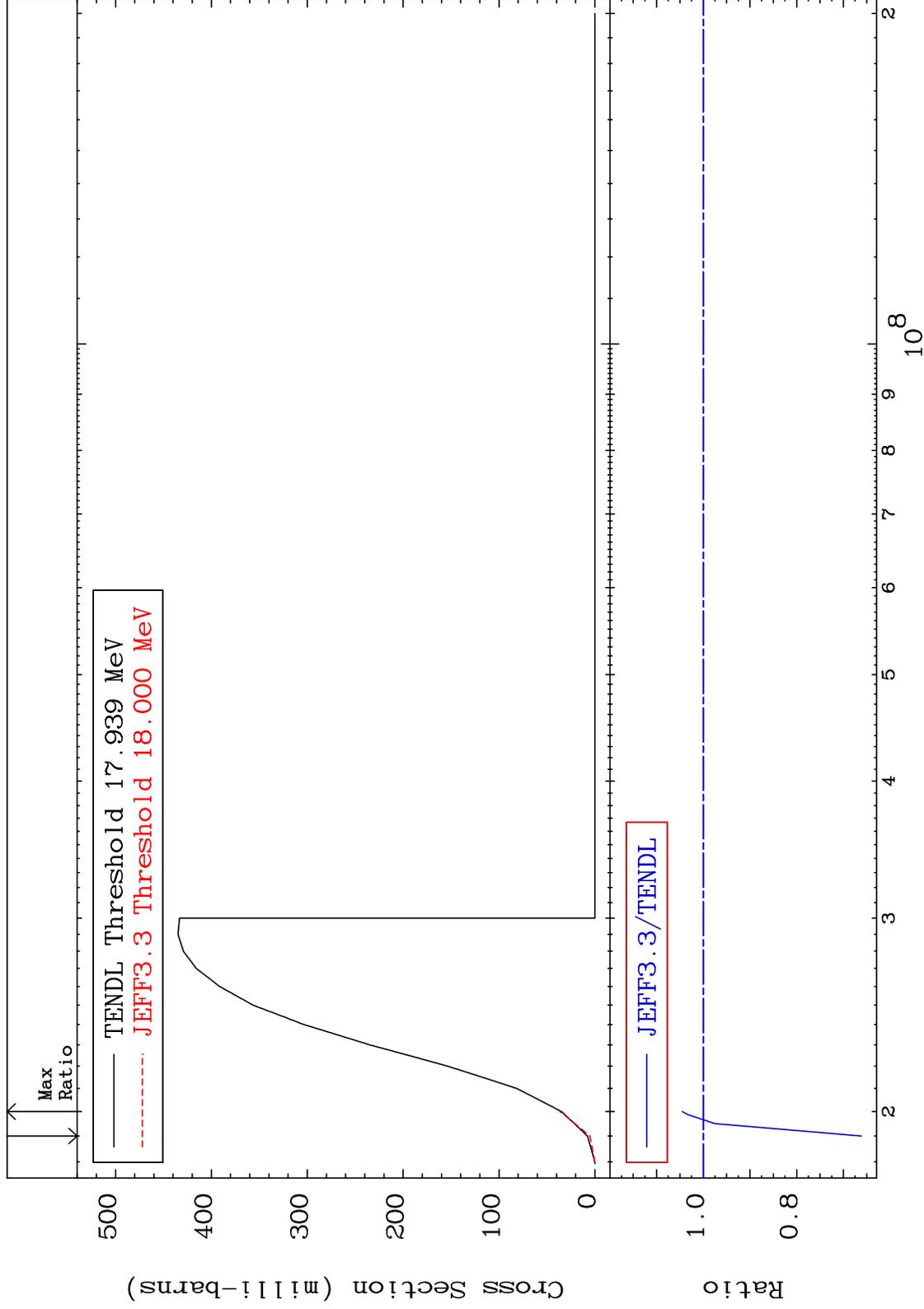
MAT 4231

(n,3n)

42-Mo-94

Cross Section

-33.84 To 4.462 %



5

Incident Energy (eV)

42-Mo-94

MAT 4231

(n, n')  $\alpha$

42-Mo-94

-9.208 To 131.5 %

Cross Section

Min Ratio

Max Ratio

TENDL Threshold 2.0886 MeV  
JEFF3.3 Threshold 9.0000 MeV

35

30

25

20

15

10

5

0

Cross Section (milli-barns)

JEFF3.3/TENDL

2.4

1.8

1.2

Ratio

2

3

4

5

6

7

8

9

10

Incident Energy (eV)

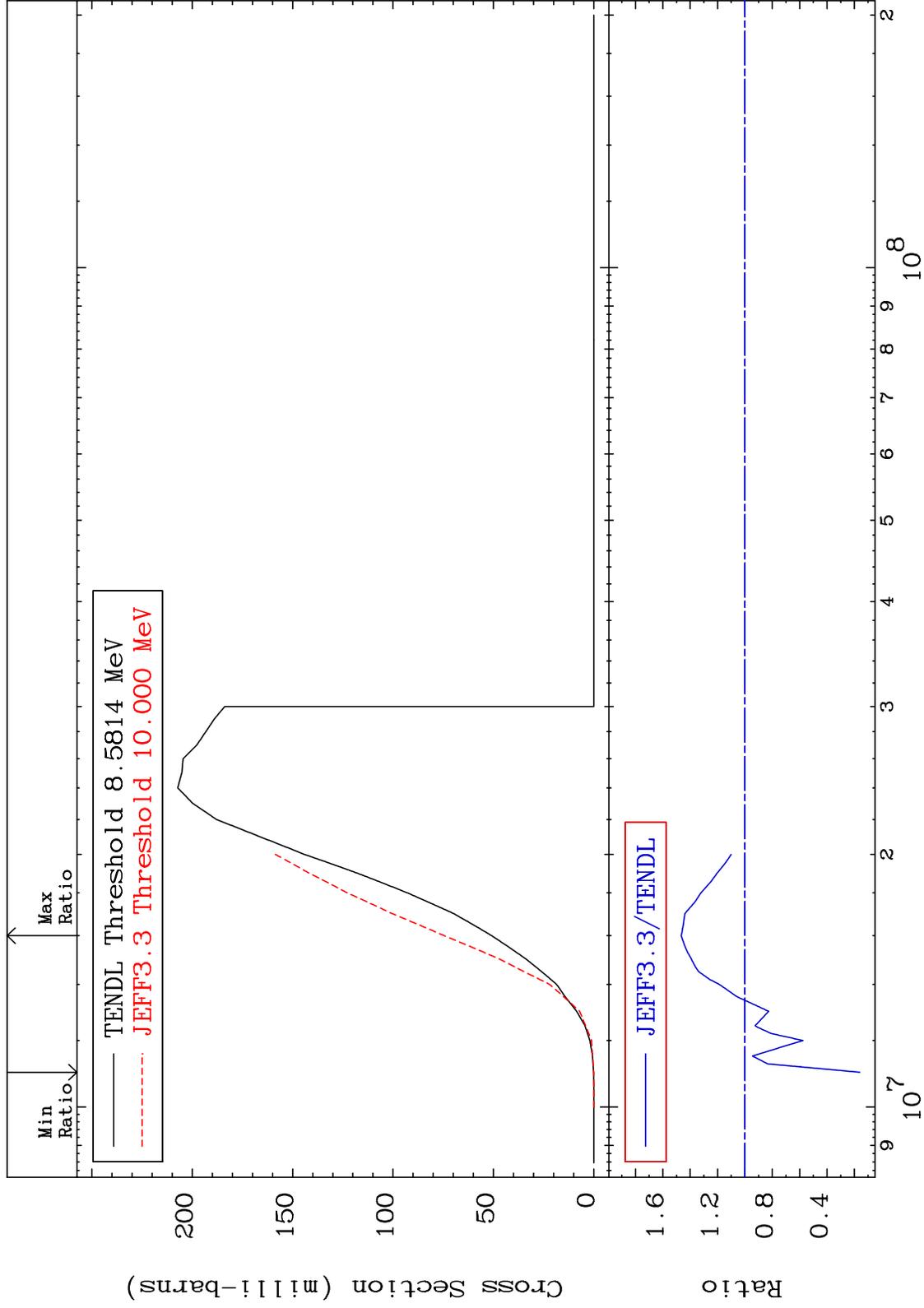
42-Mo-94

6

MAT 4231

(n,n') p  
Cross Section

42-Mo-94  
-83.95 To 46.55 %

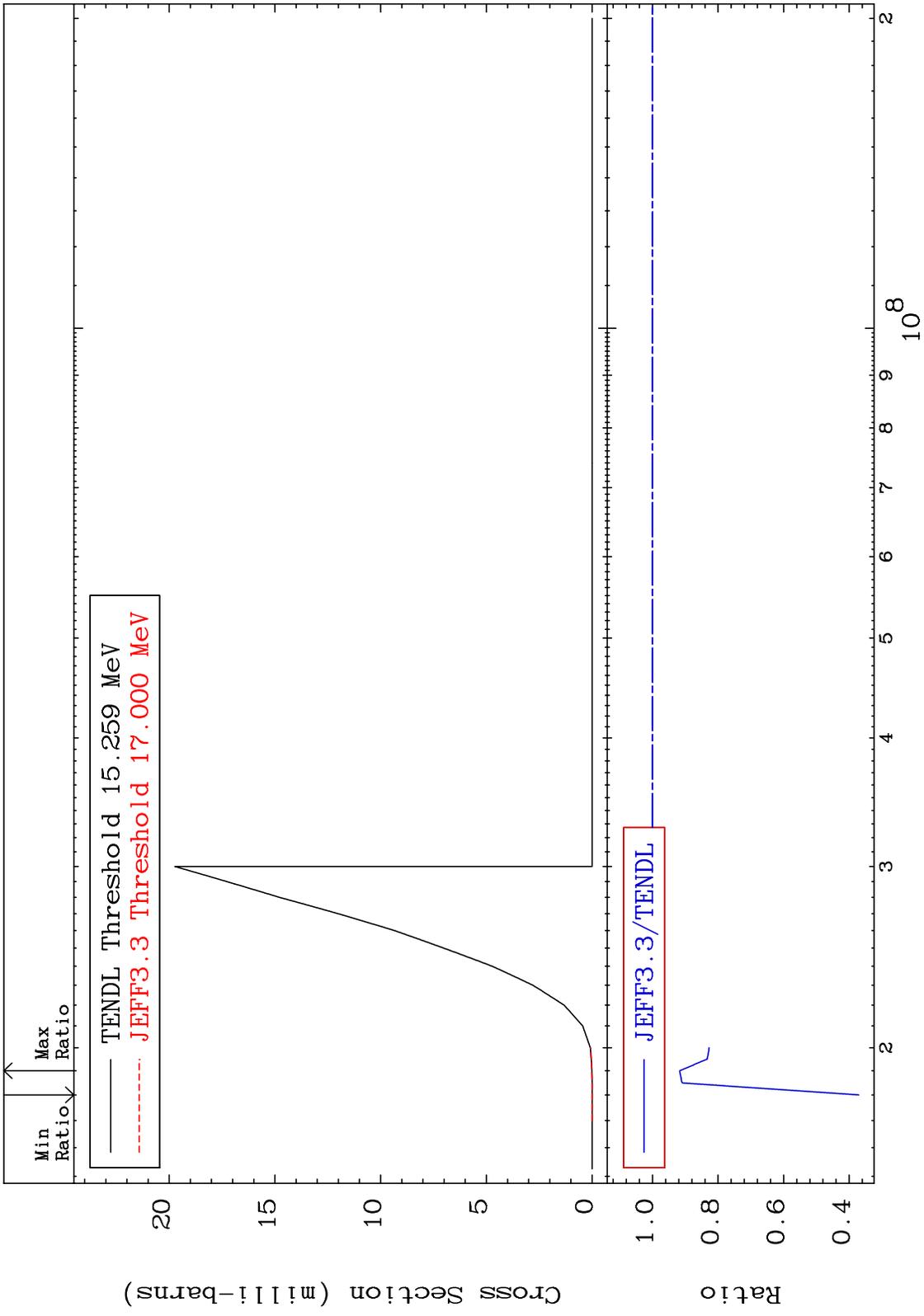


7

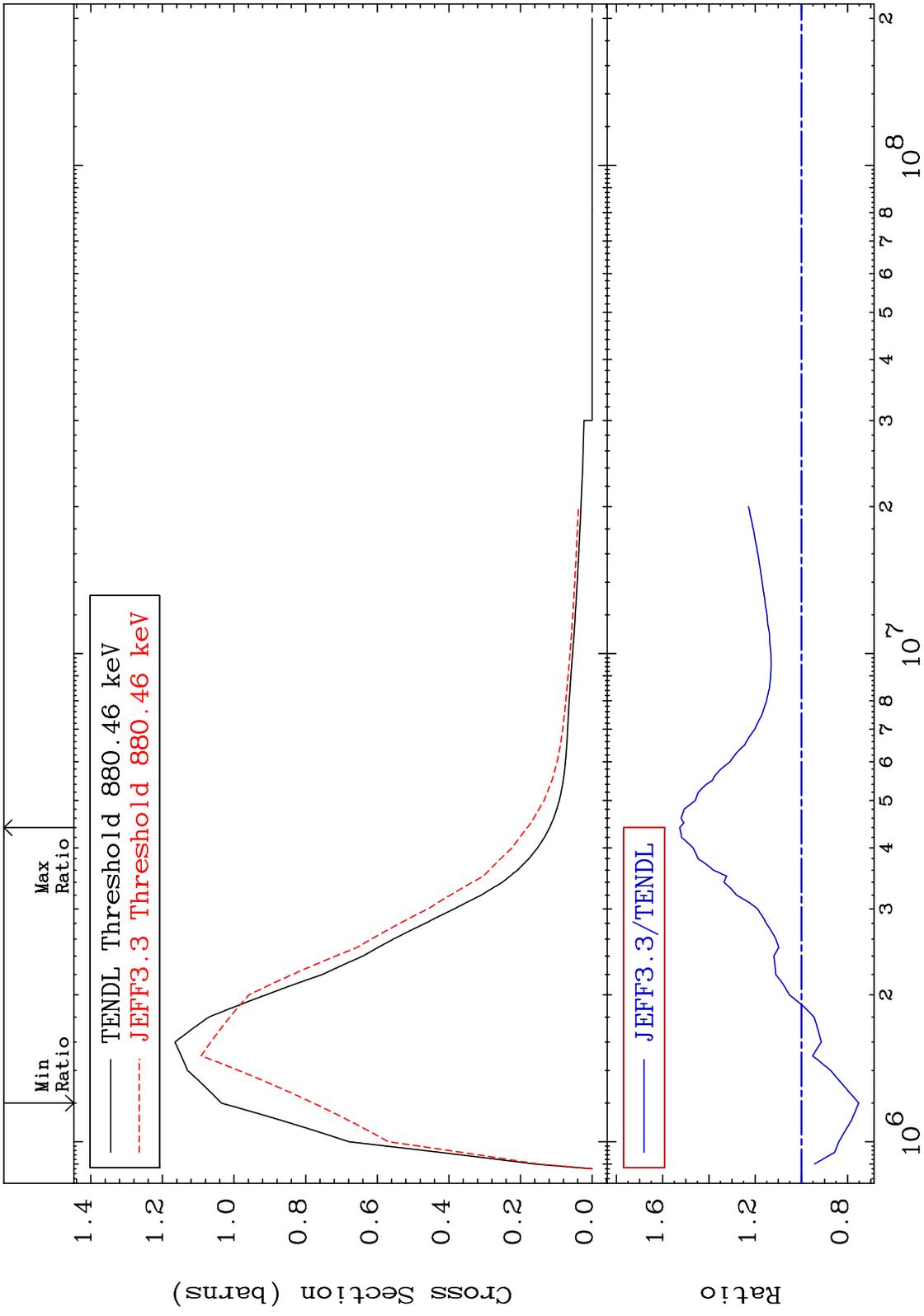
Incident Energy (eV)

42-Mo-94

MAT 4231 (n, n') d 42-Mo-94  
 Cross Section -62.94 To -8.301%



MAT 4231  
MT= 51 (n,n') Level  
Cross Section  
42-Mo-94  
-24.83 To 52.62 %

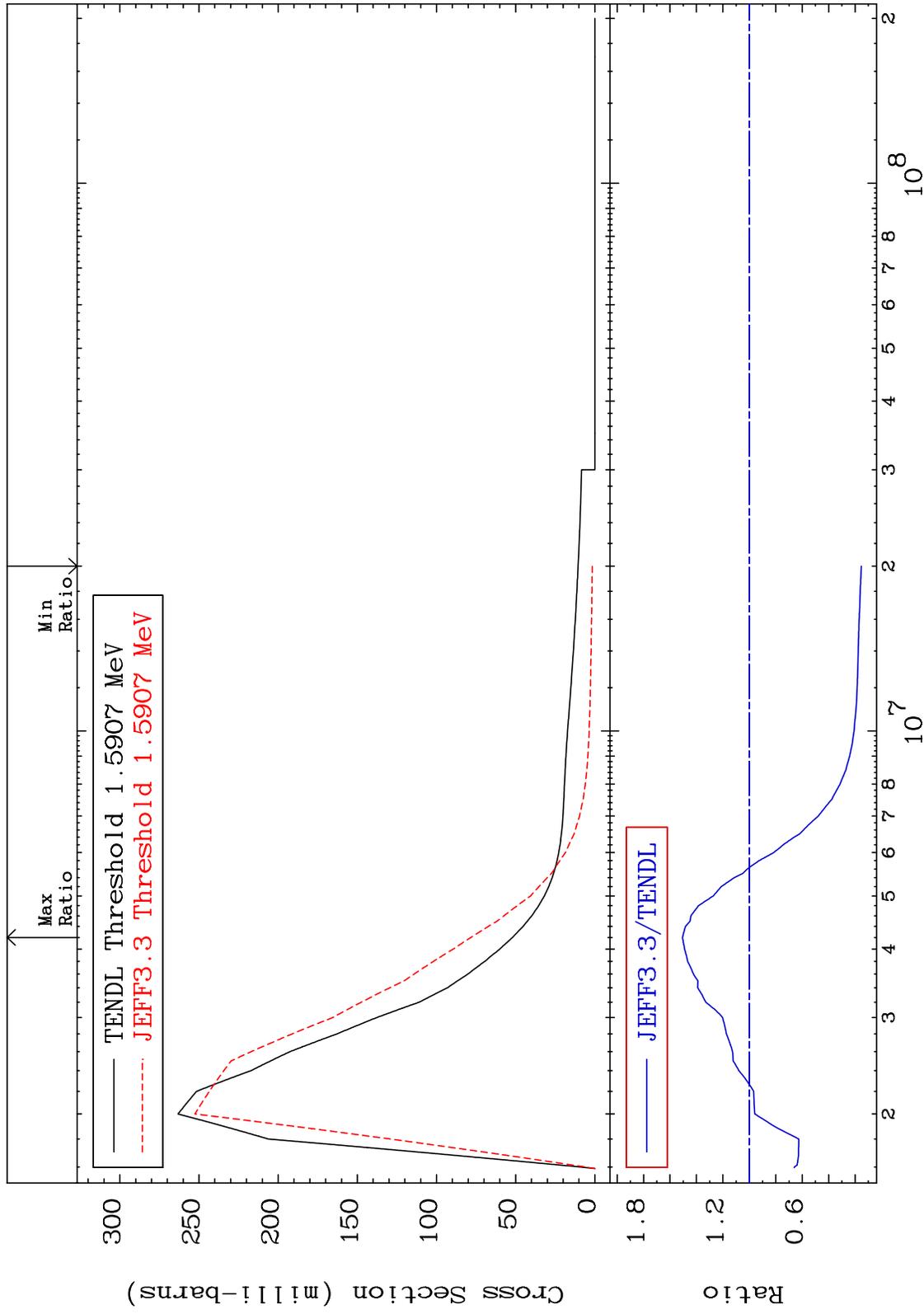


42-Mo-94

MAT 4231

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

42-Mo-94  
-84.69 To 50.60 %



10

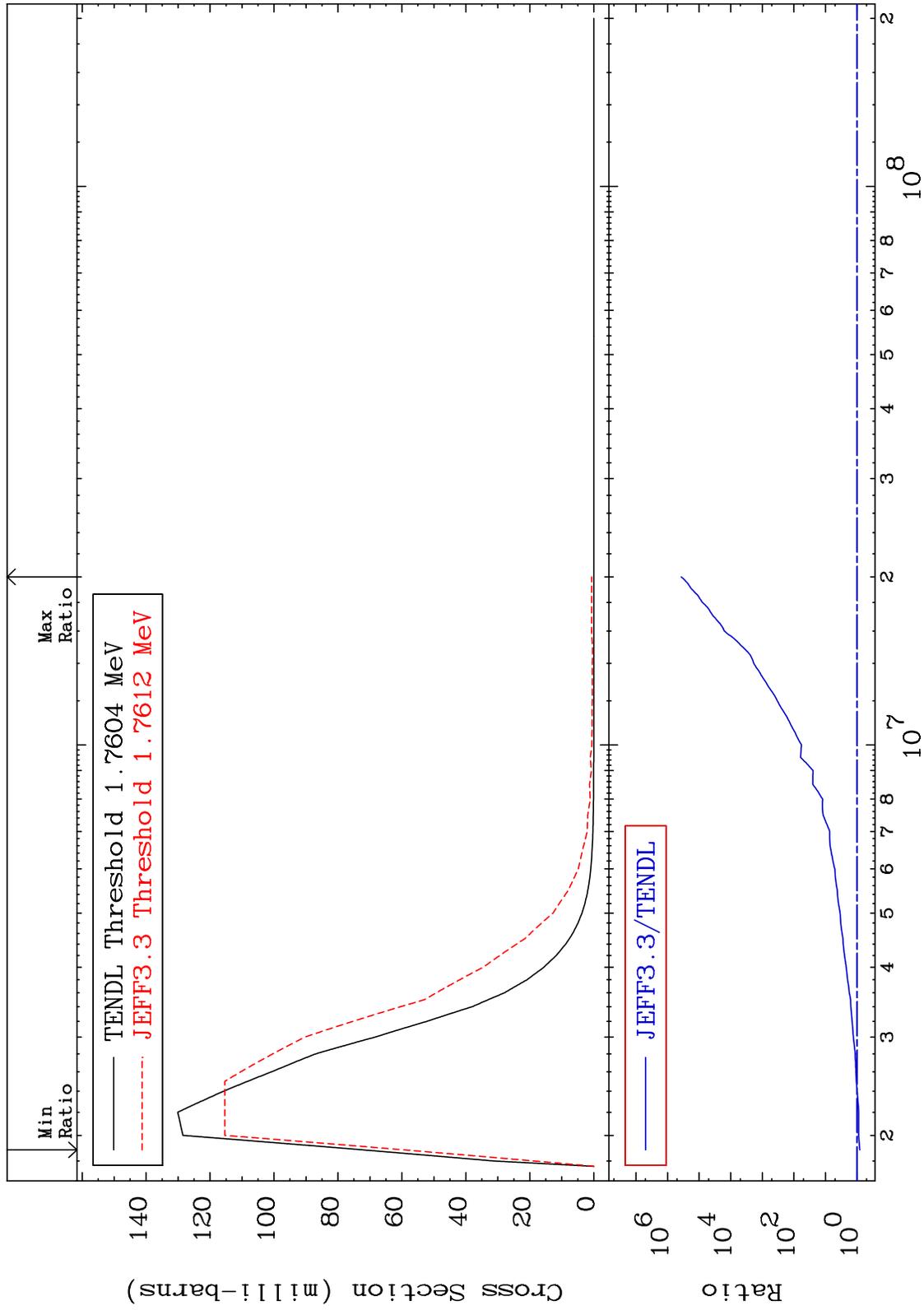
Incident Energy (eV)

42-Mo-94

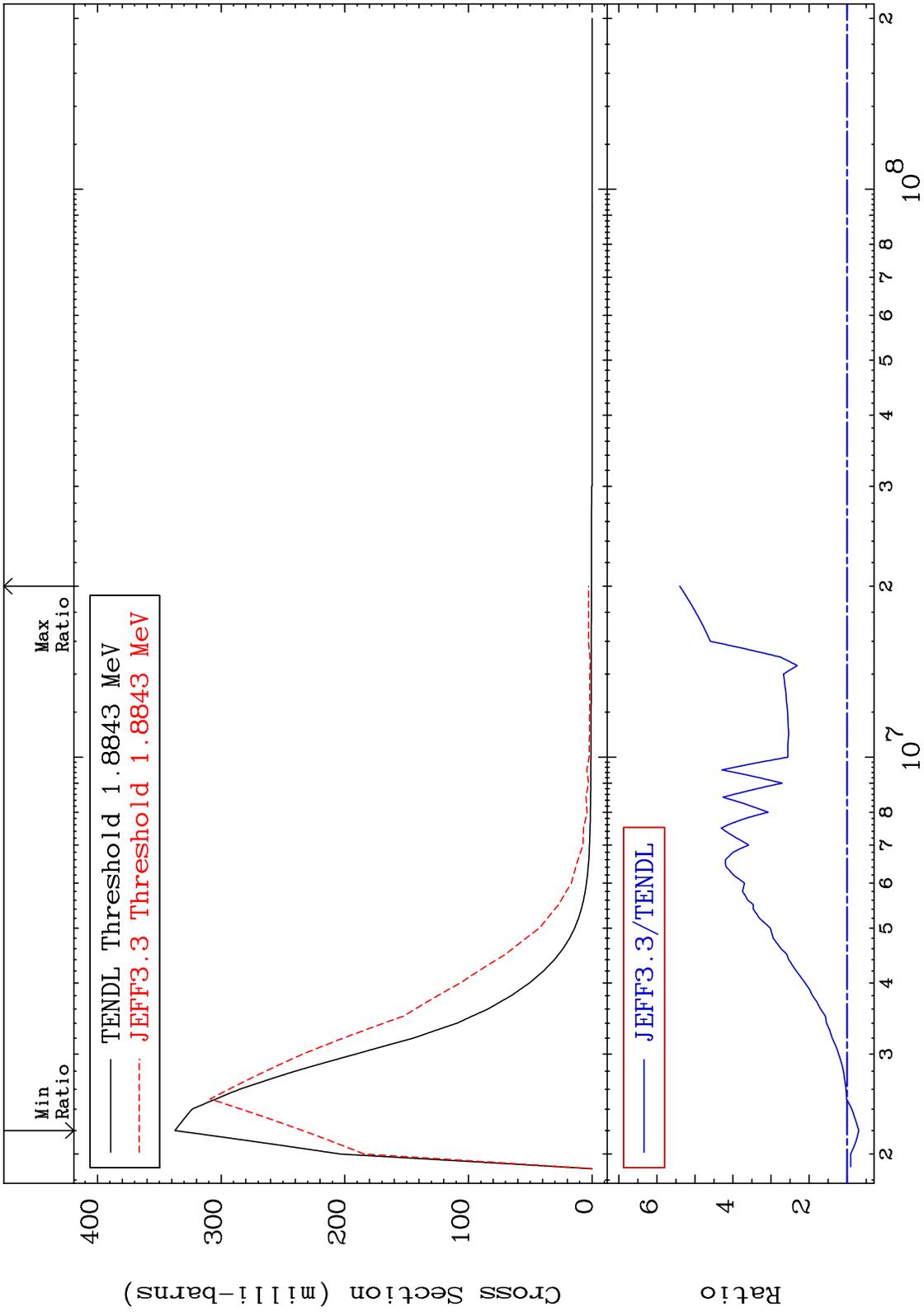
MAT 4231

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

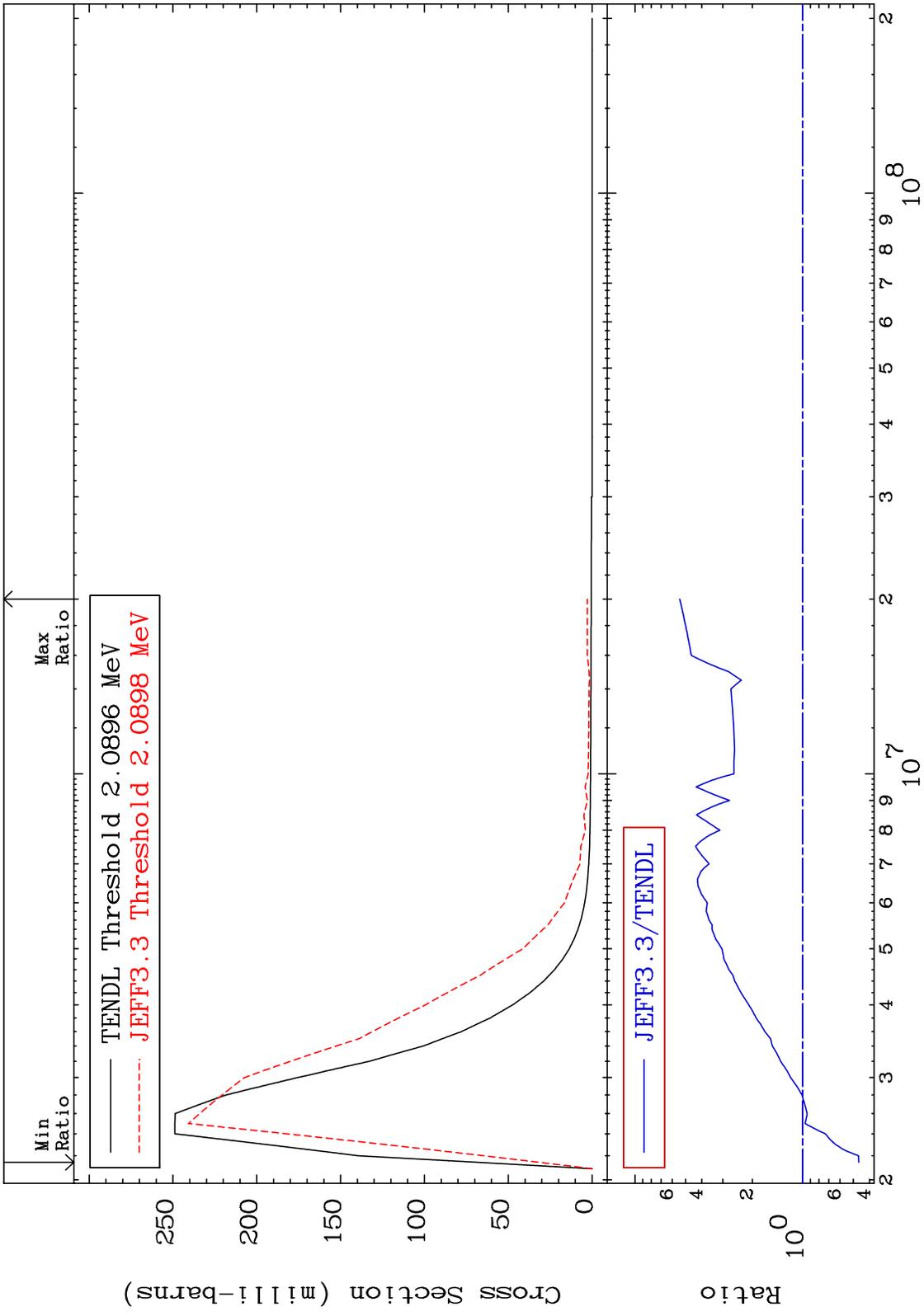
42-Mo-94  
-17.77 To 9999. %



MAT 4231 MT= 54 (n,n') Level Cross Section -30.61 To 439.9 % 42-Mo-94



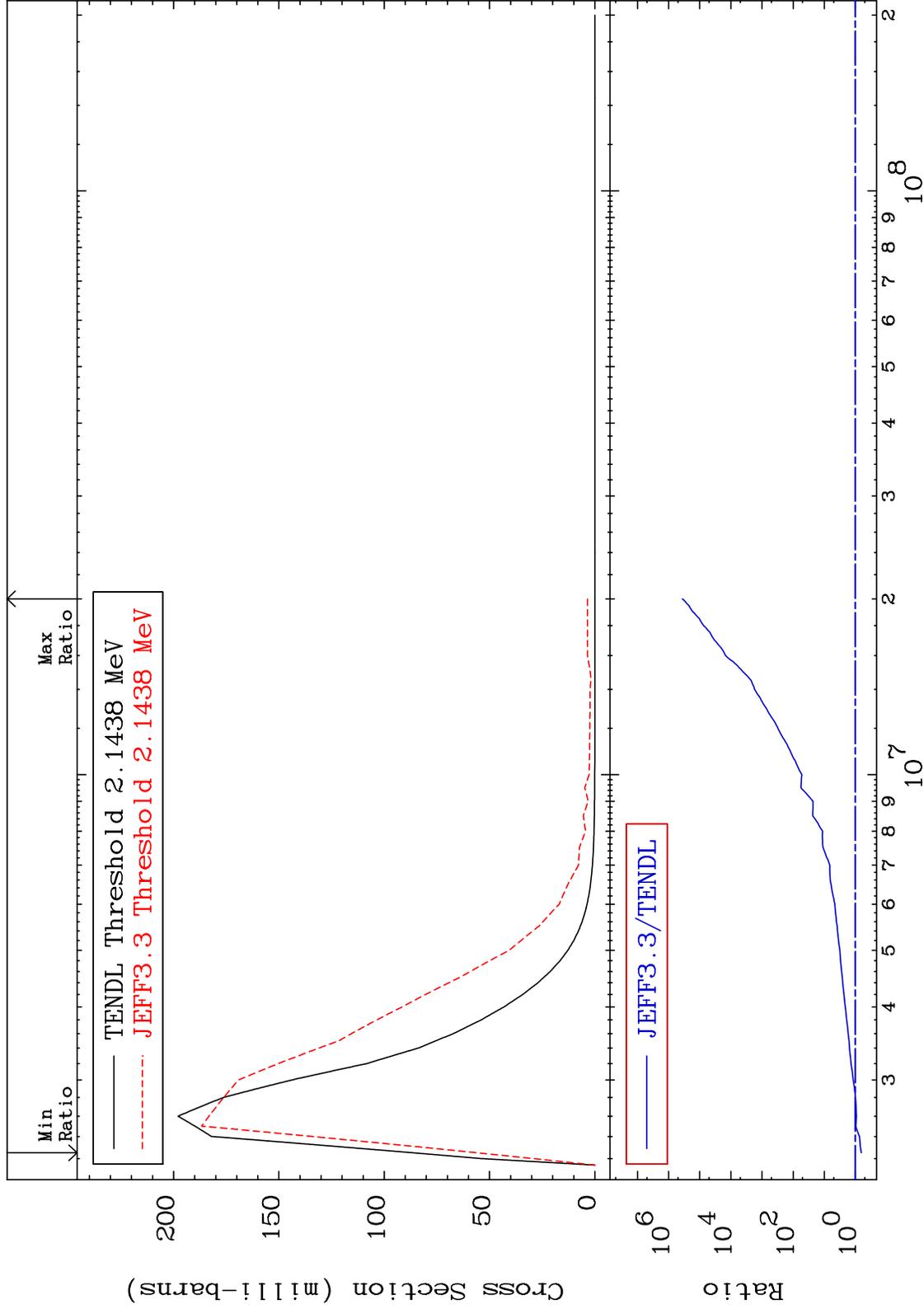
MAT 4231      MT= 55 (n,n') Level      42-Mo-94  
 Cross Section      -53.71 To 441.4 %



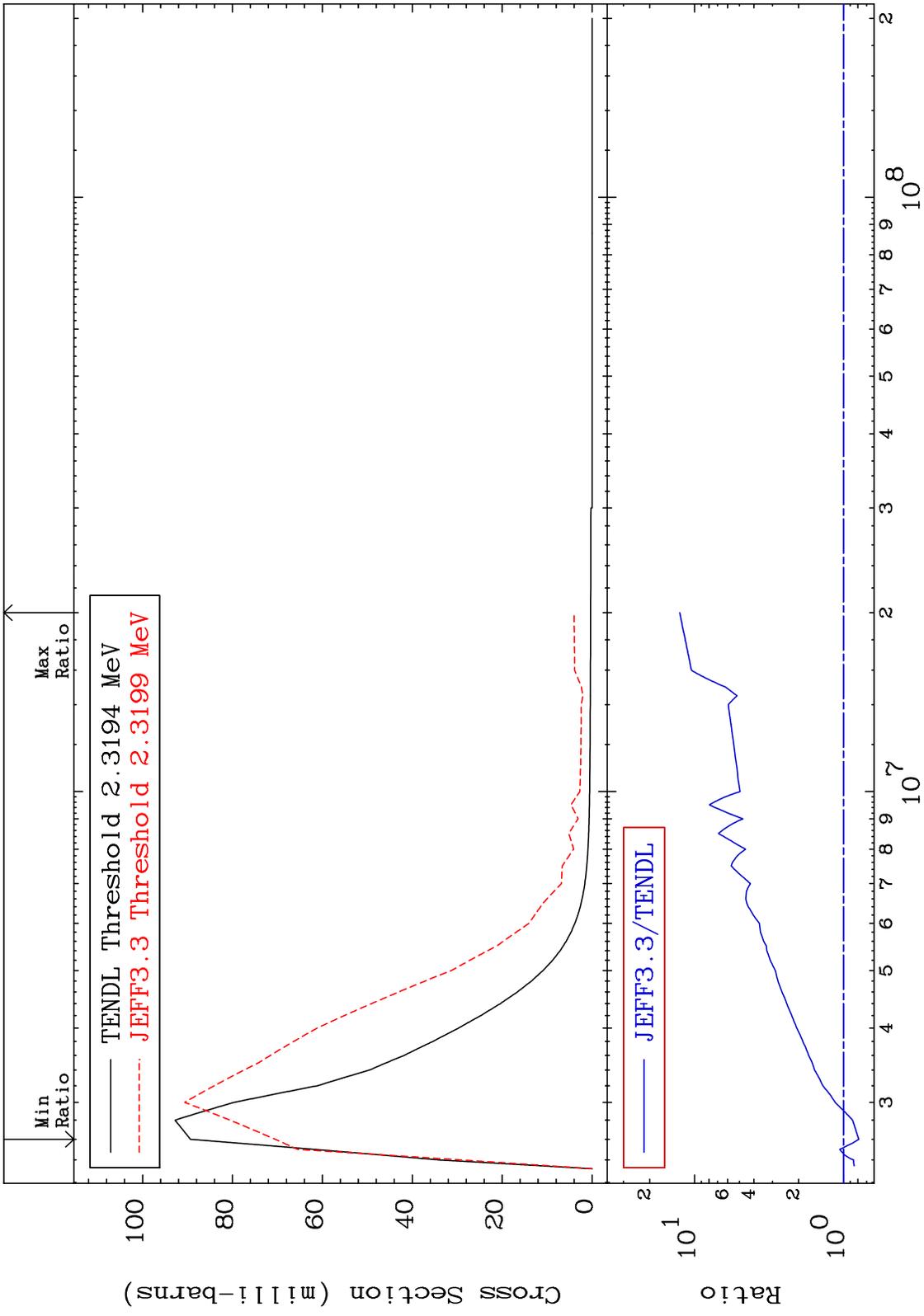
MAT 4231

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

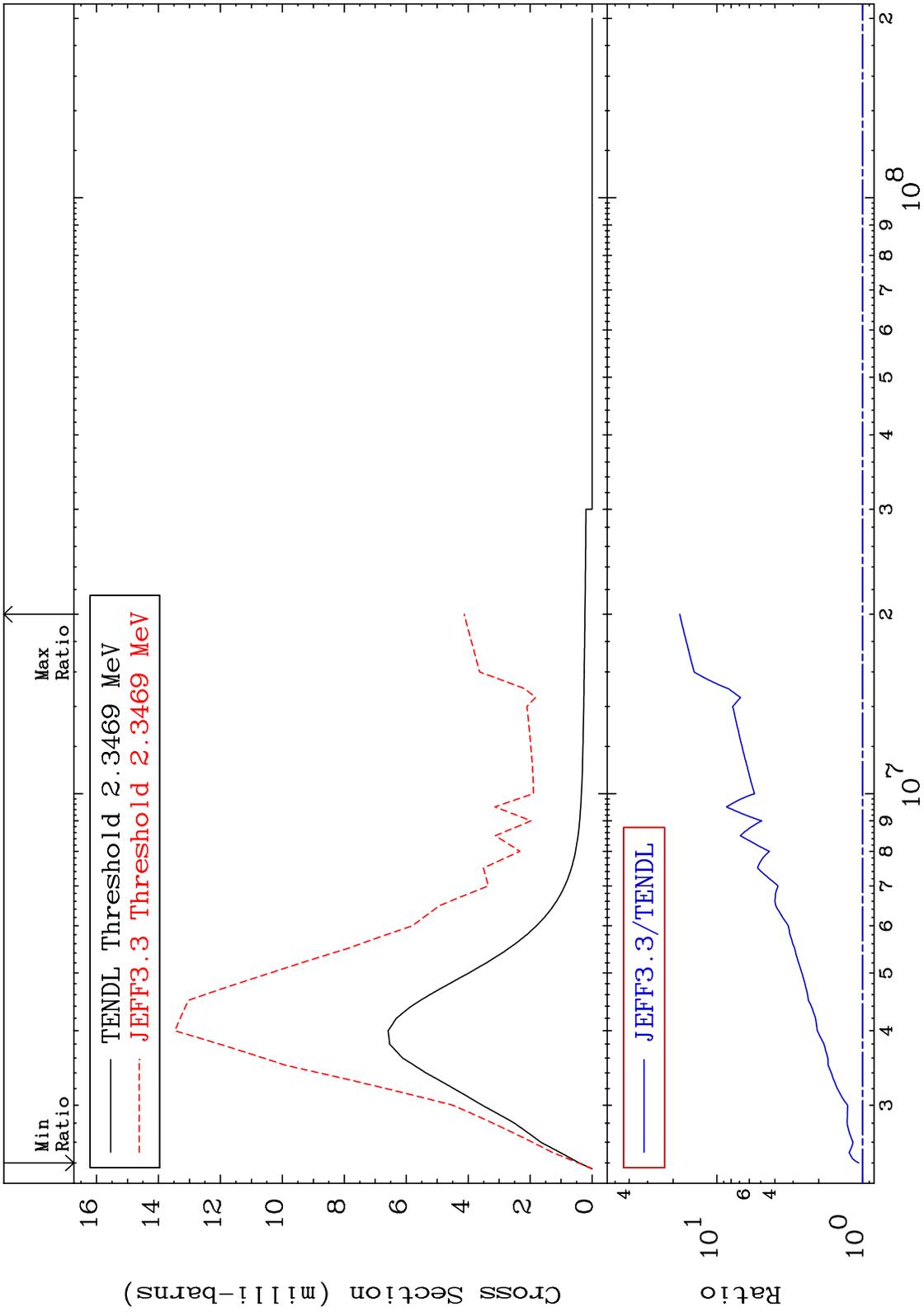
42-Mo-94  
-35.31 To 9999. %



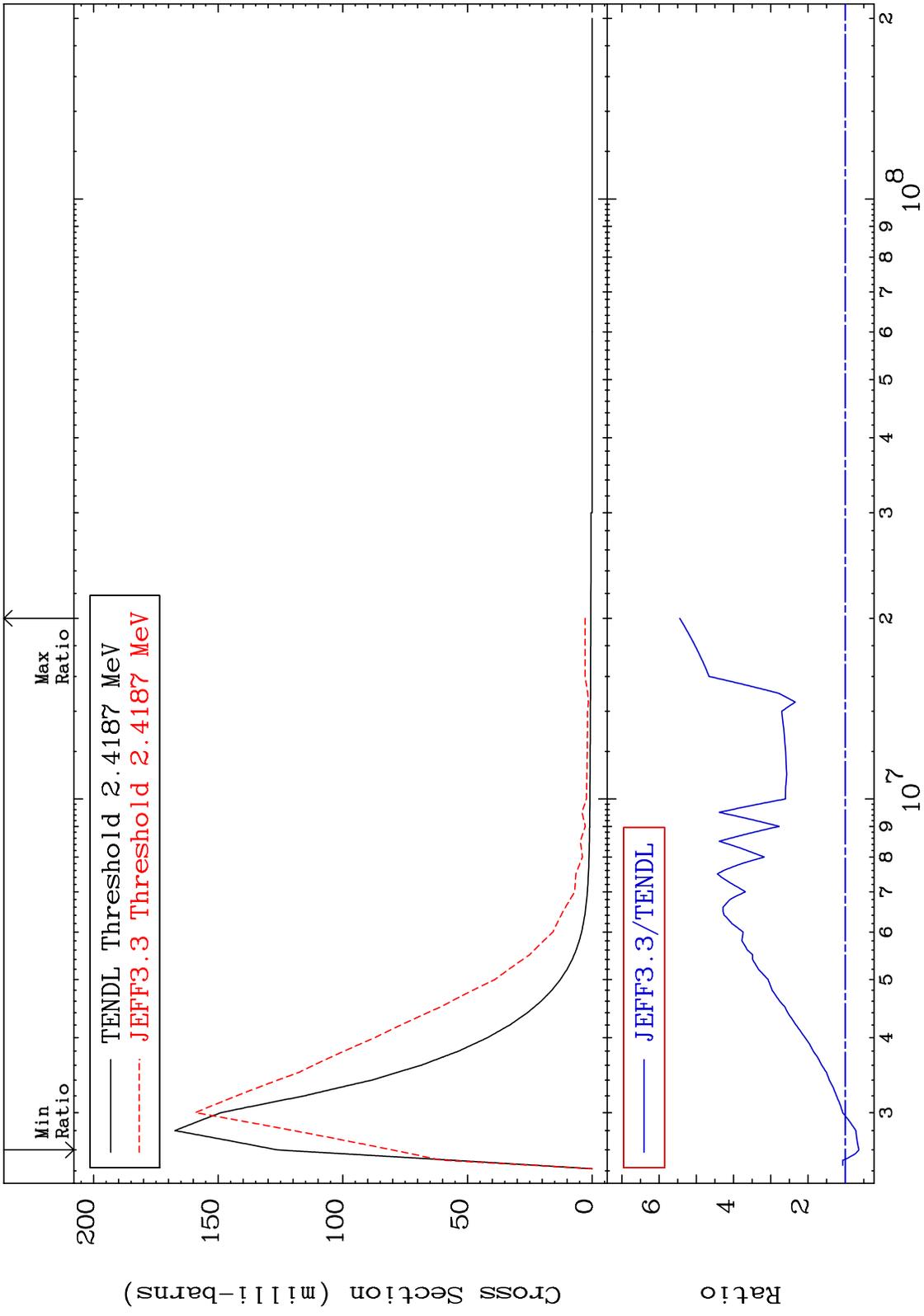
MAT 4231 MT= 57 (n,n') Level Cross Section -21.09 To 1157. % 42-Mo-94



MAT 4231 MT= 58 (n,n') Level Cross Section 42-Mo-94 6.197 To 1699. %



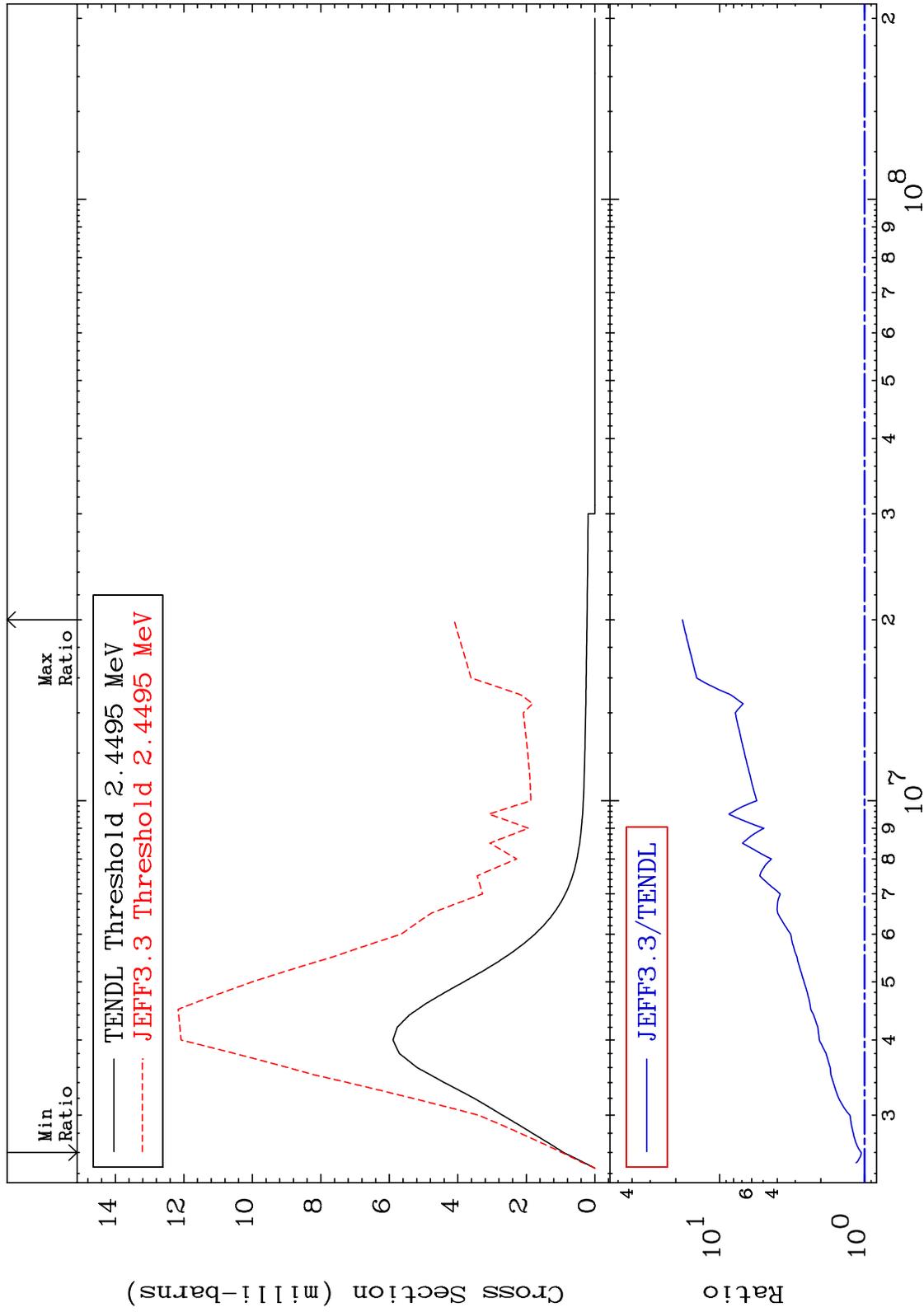
MAT 4231 MT= 59 (n,n') Level Cross Section -36.46 To 444.6 % 42-Mo-94



MAT 4231

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

42-Mo-94  
5.278 To 1699. %



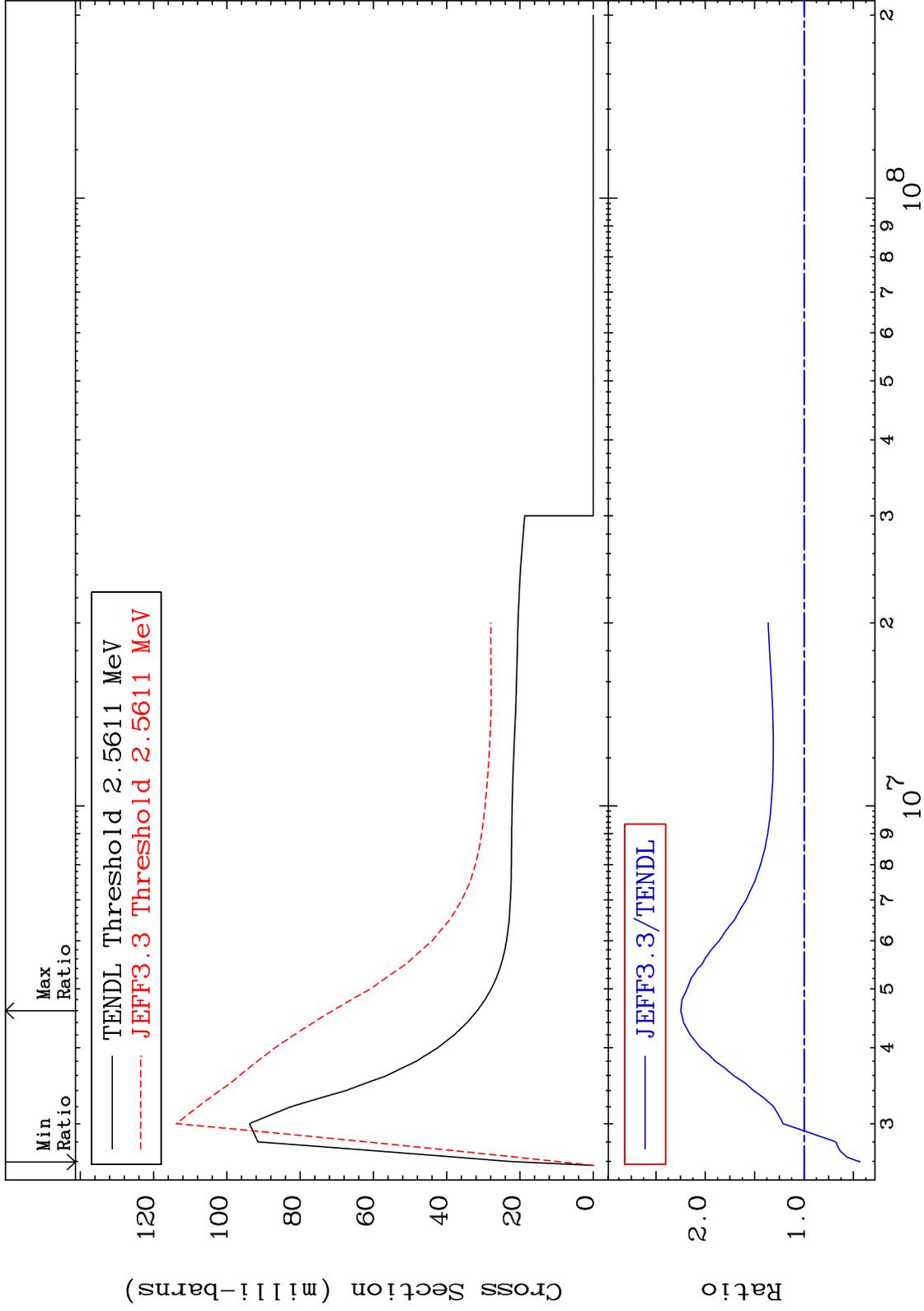
18

42-Mo-94

MAT 4231

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

42-Mo-94  
-56.40 To 124.8 %



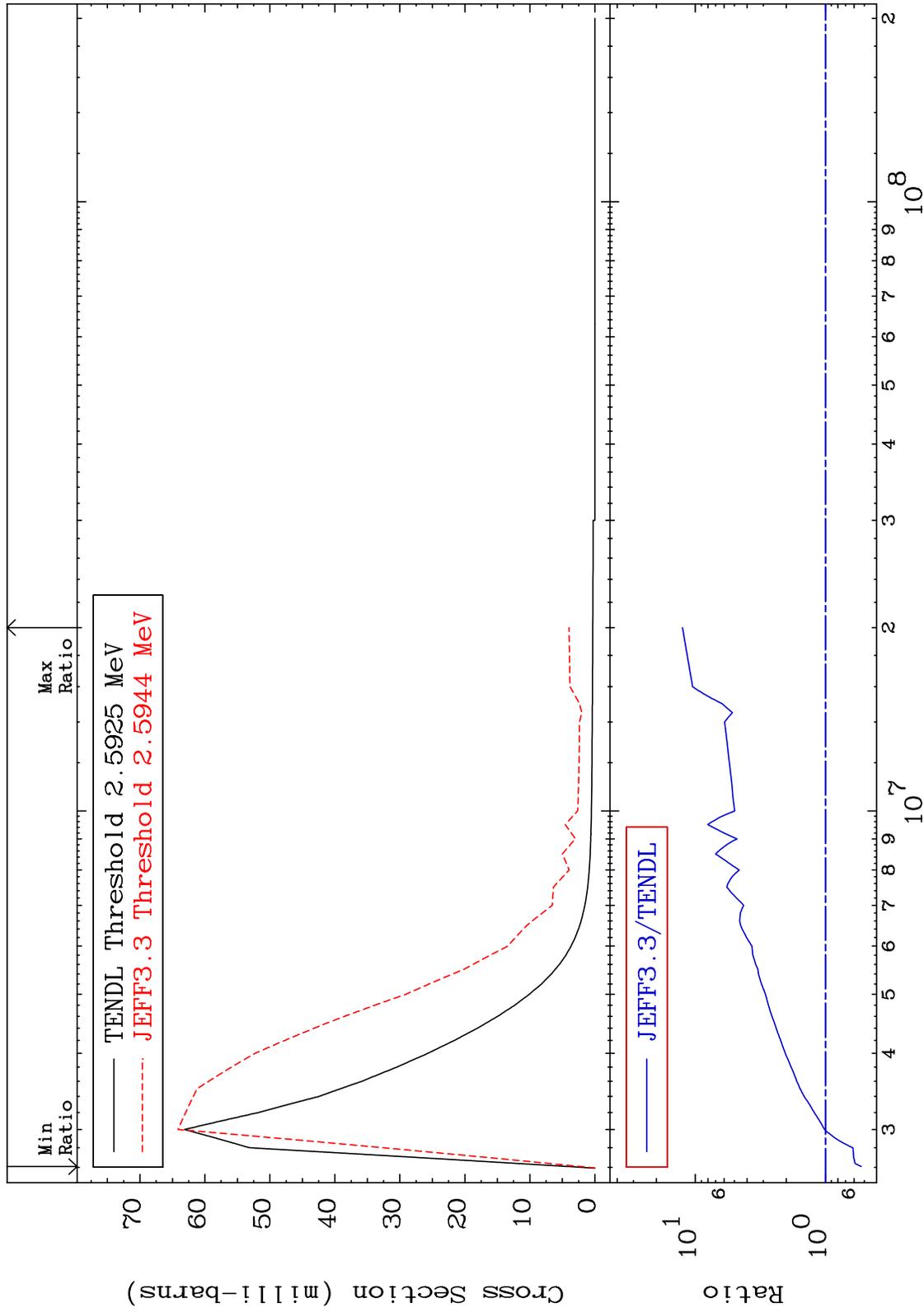
19

42-Mo-94

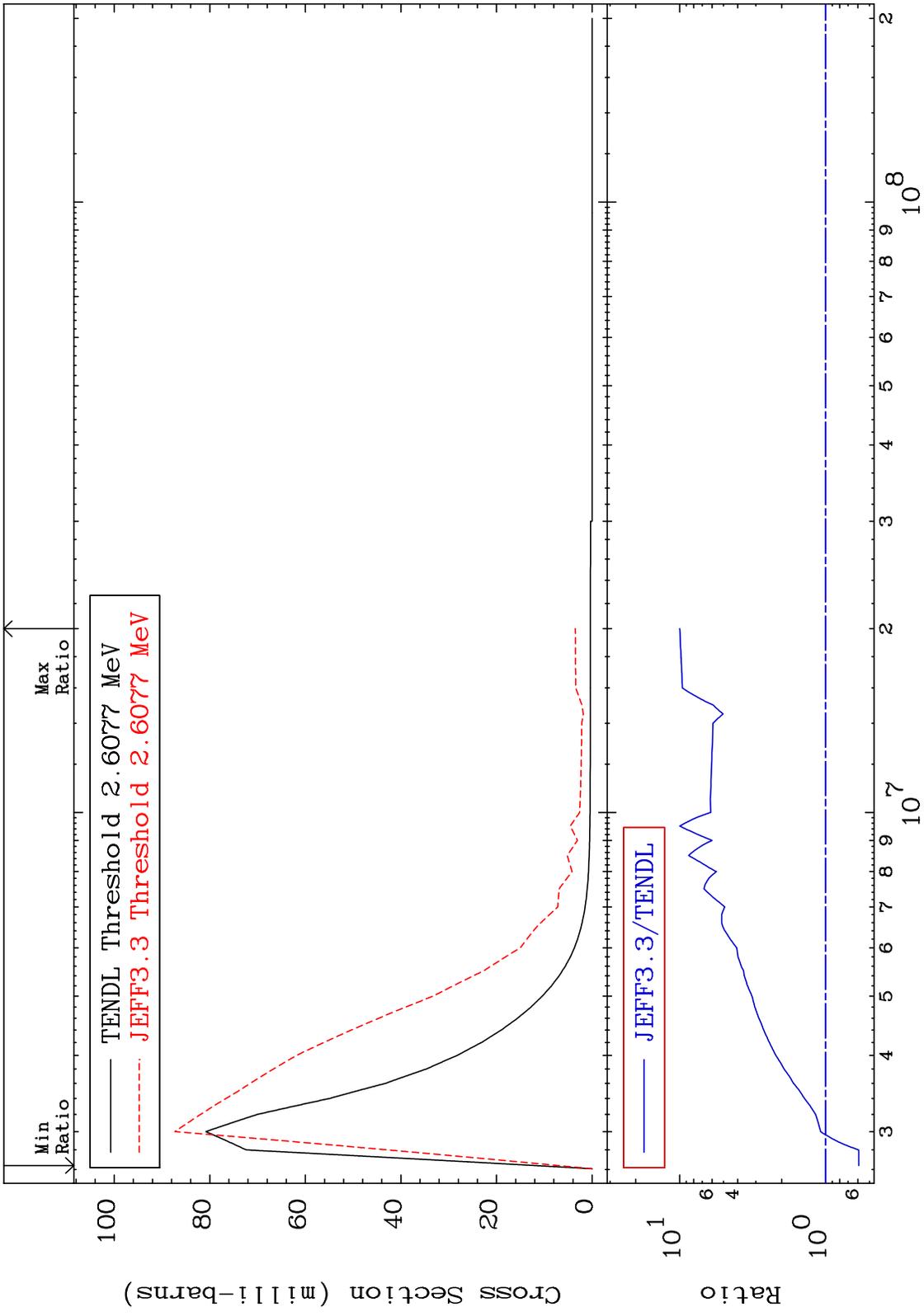
MAT 4231

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

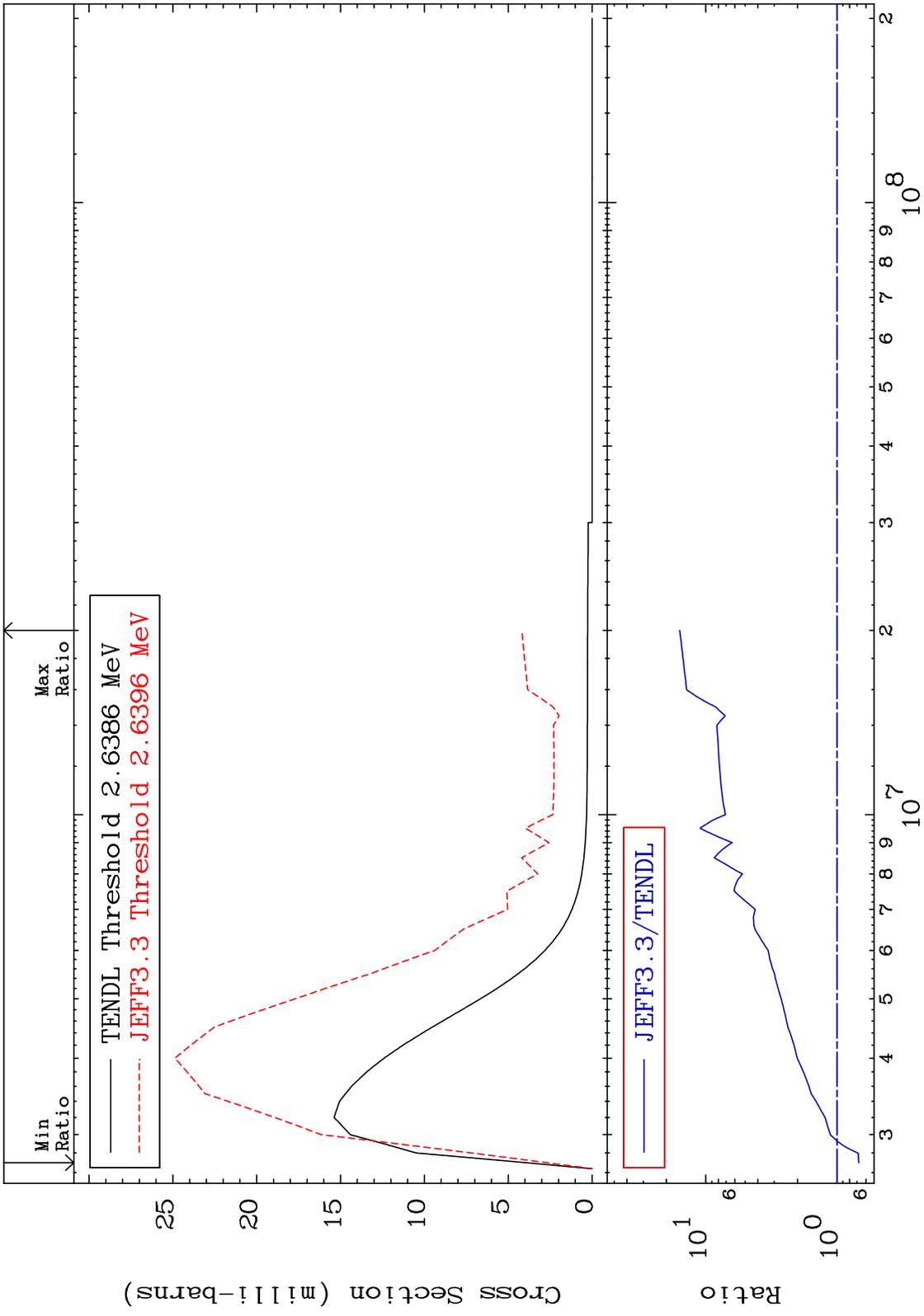
42-Mo-94  
-47.17 To 1158. %



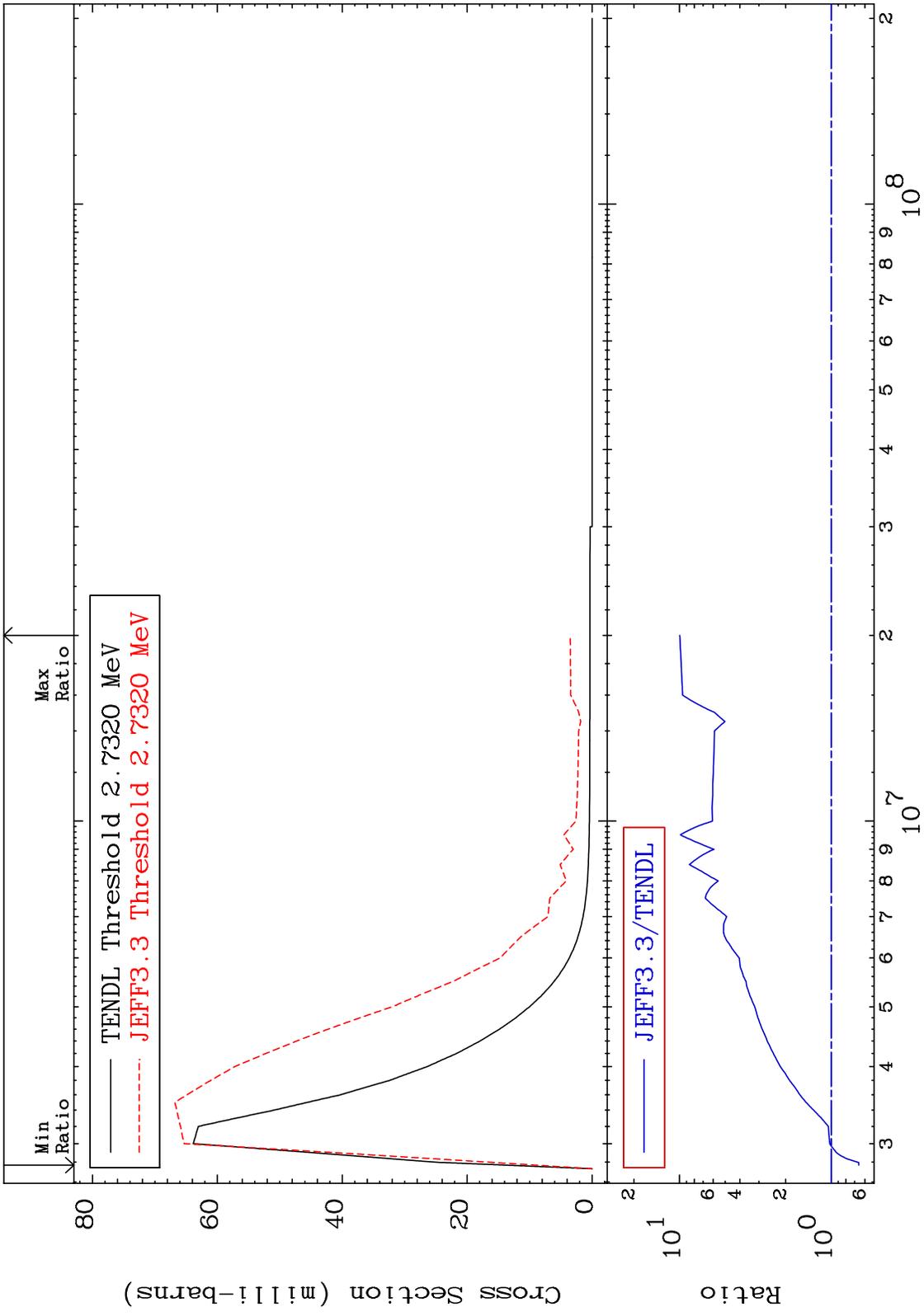
MAT 4231 MT= 63 (n,n') Level Cross Section -40.87 To 898.1 % 42-Mo-94



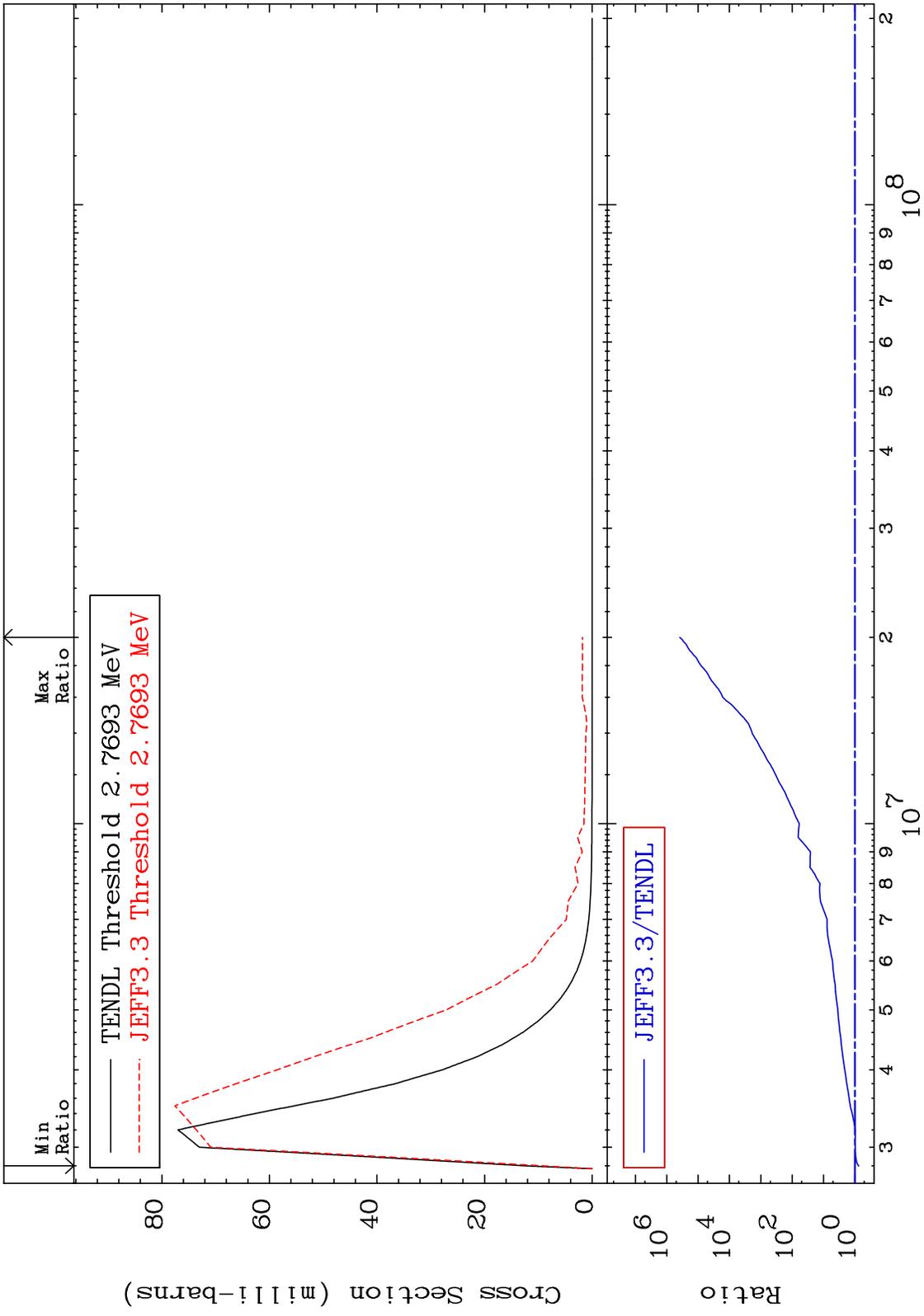
MAT 4231 MT= 64 (n,n') Level Cross Section -32.05 To 1480. % 42-Mo-94



MAT 4231 MT= 65 (n,n') Level Cross Section -34.23 To 897.2 % 42-Mo-94



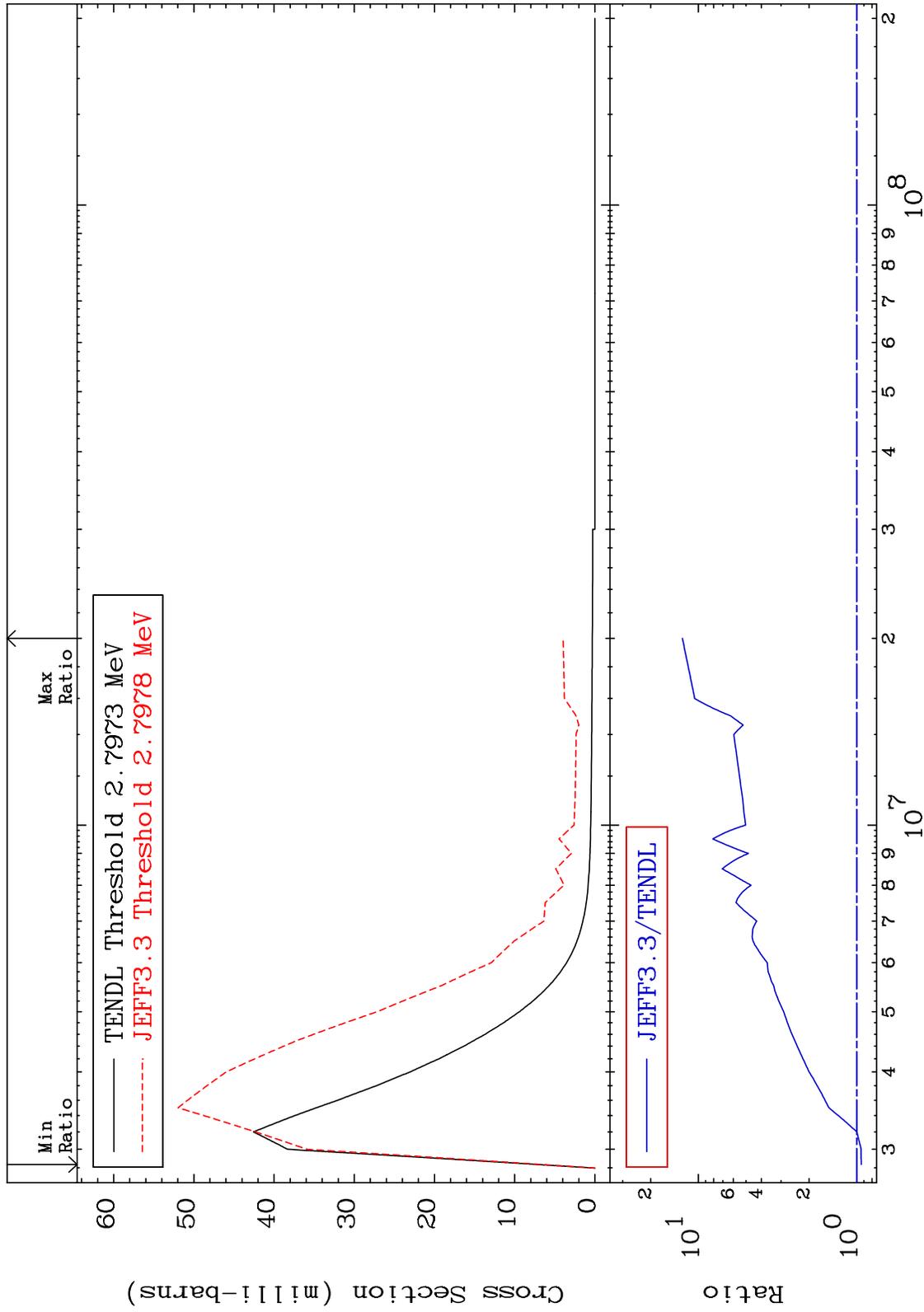
MAT 4231 MT= 66 (n,n') Level Cross Section -25.21 To 9999. % 42-Mo-94



MAT 4231

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

42-Mo-94  
-6.628 To 1158. %

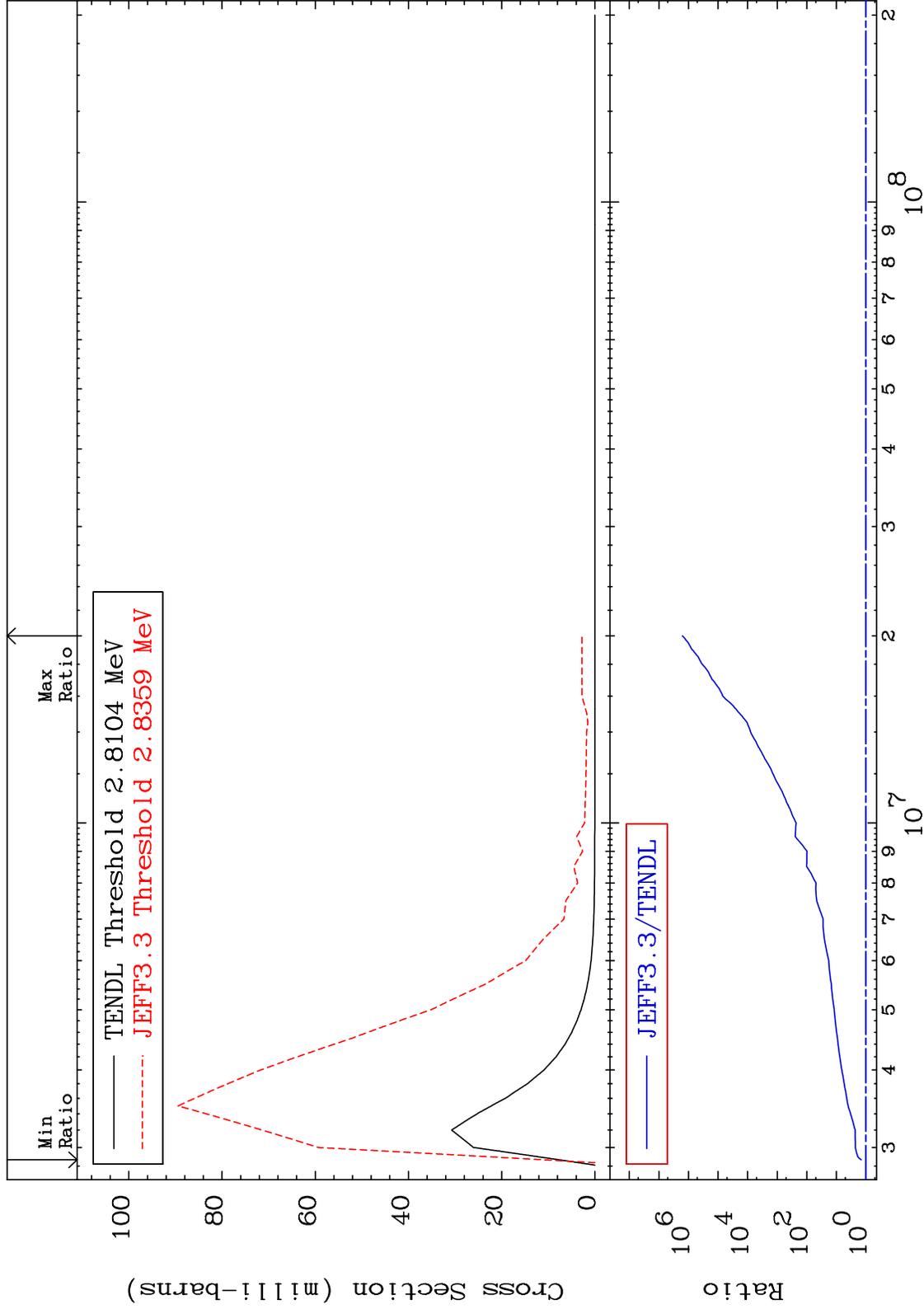


25

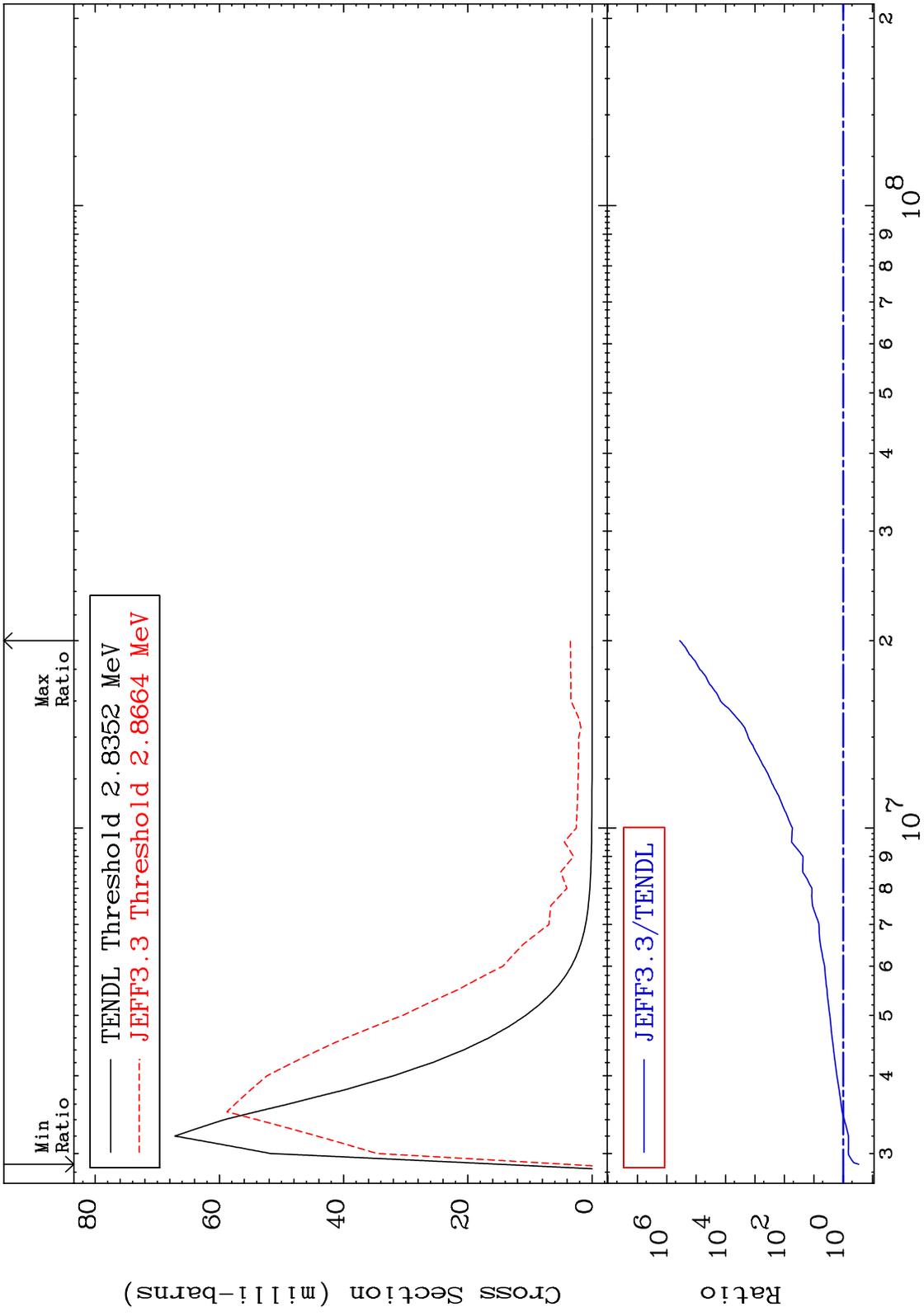
MAT 4231

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

42-Mo-94  
43.27 To 9999. %



MAT 4231 MT= 69 (n,n') Level Cross Section -70.59 To 9999. % 42-Mo-94

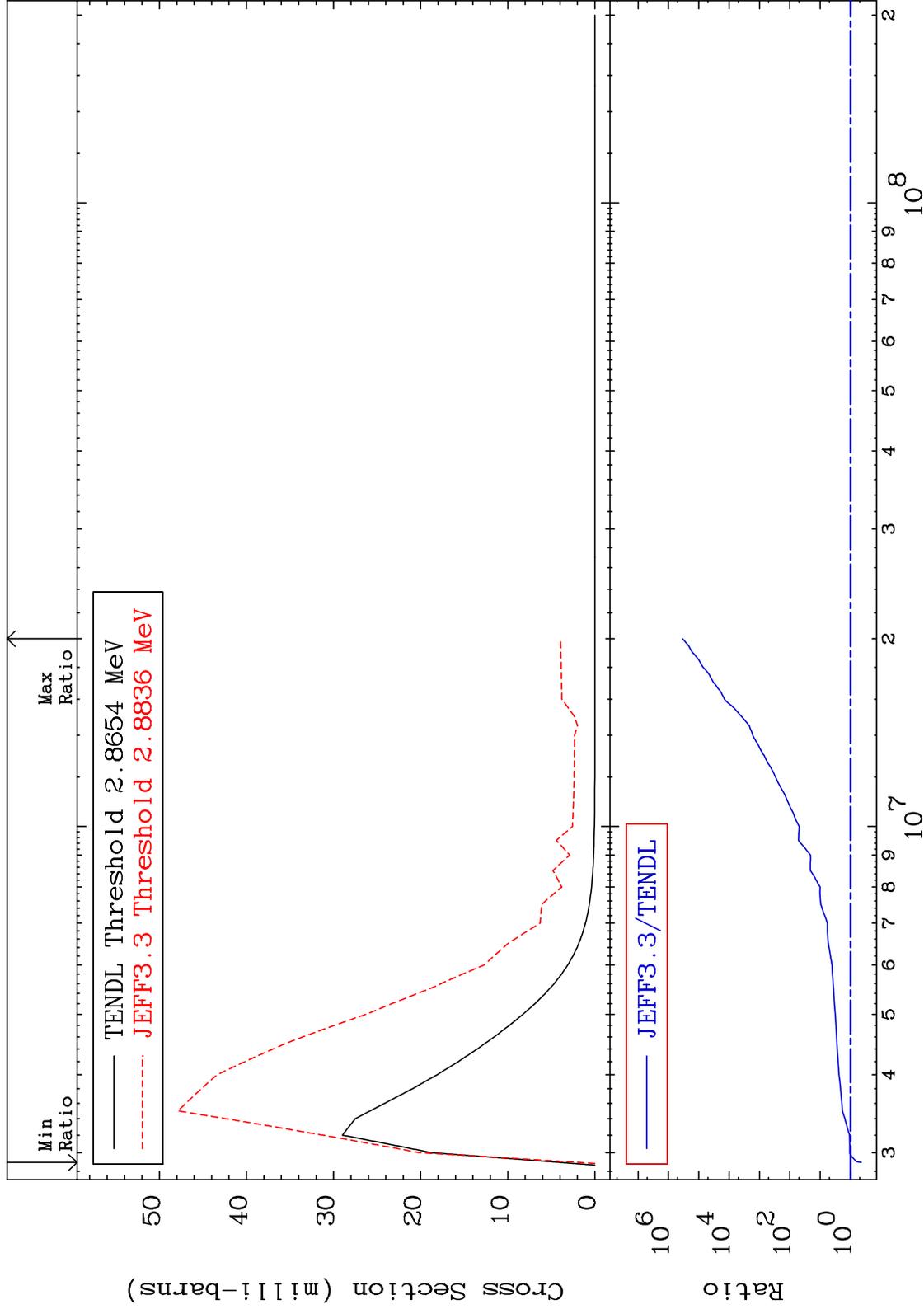


27 42-Mo-94

MAT 4231

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

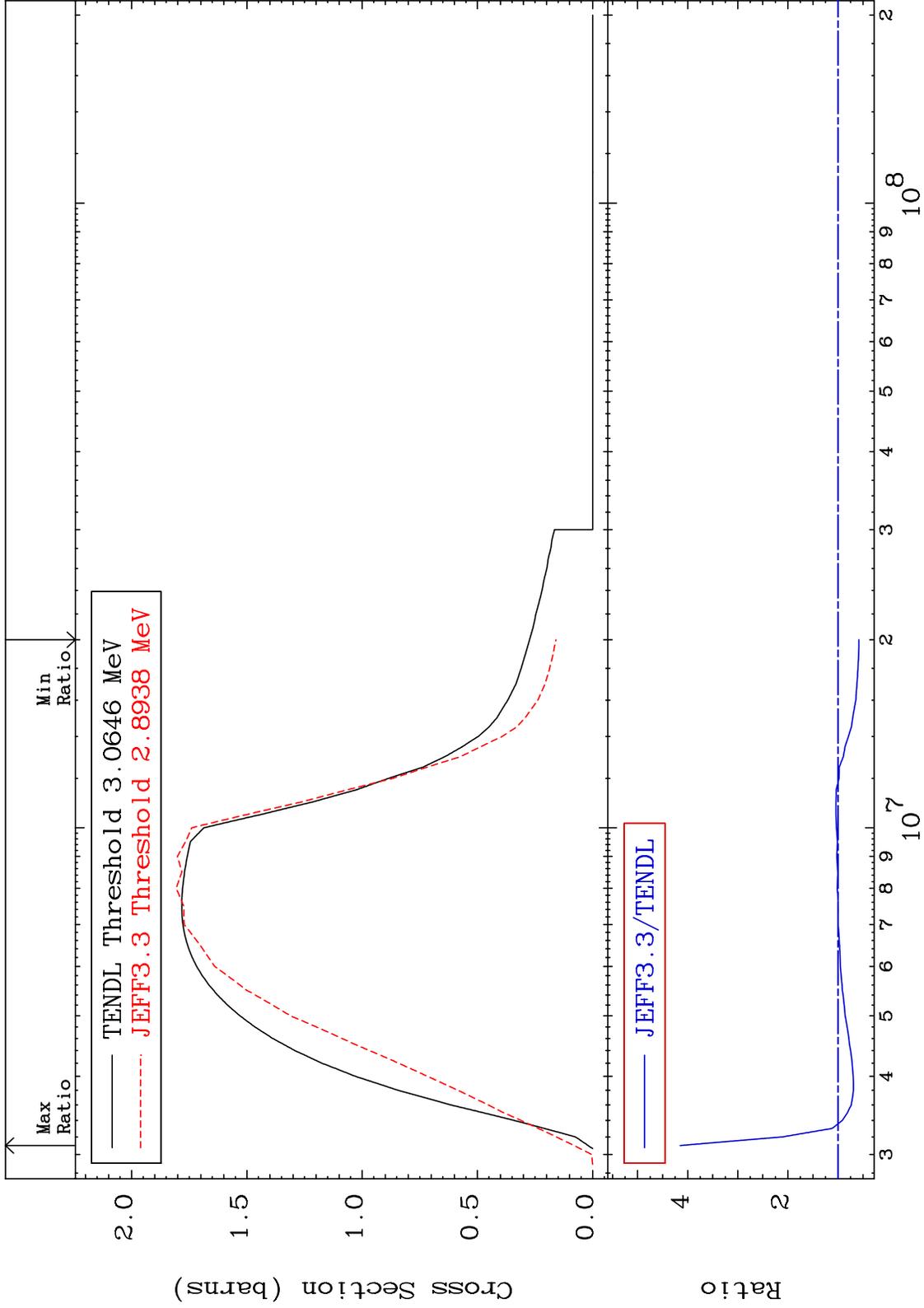
42-Mo-94  
-55.83 To 9999. %



MAT 4231

(n, n') Continuum  
Cross Section

42-Mo-94  
-41.74 To 314.9 %



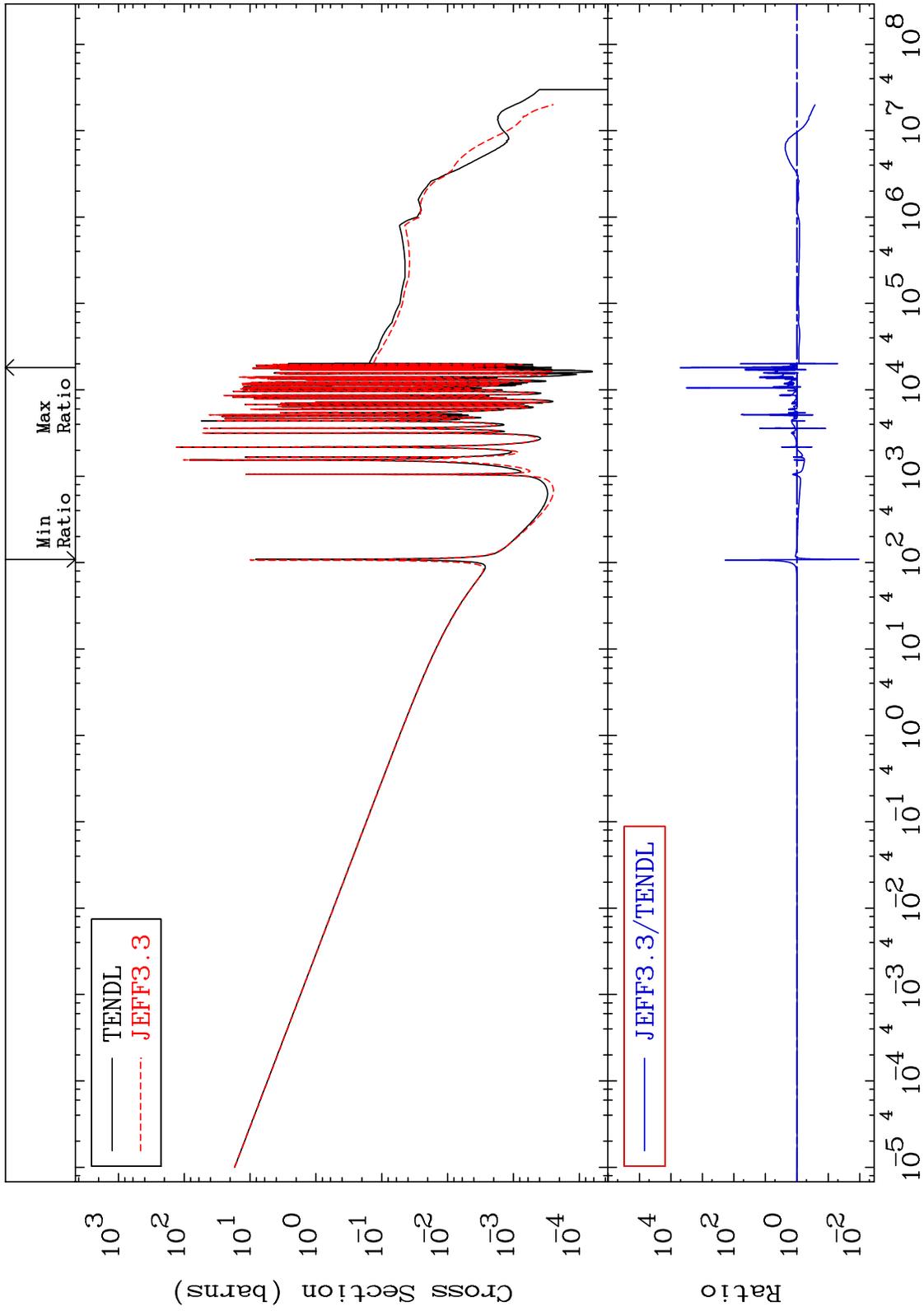
MAT 4231

42-Mo-94

(n,  $\gamma$ )

Cross Section

-98.93 To 9999. %

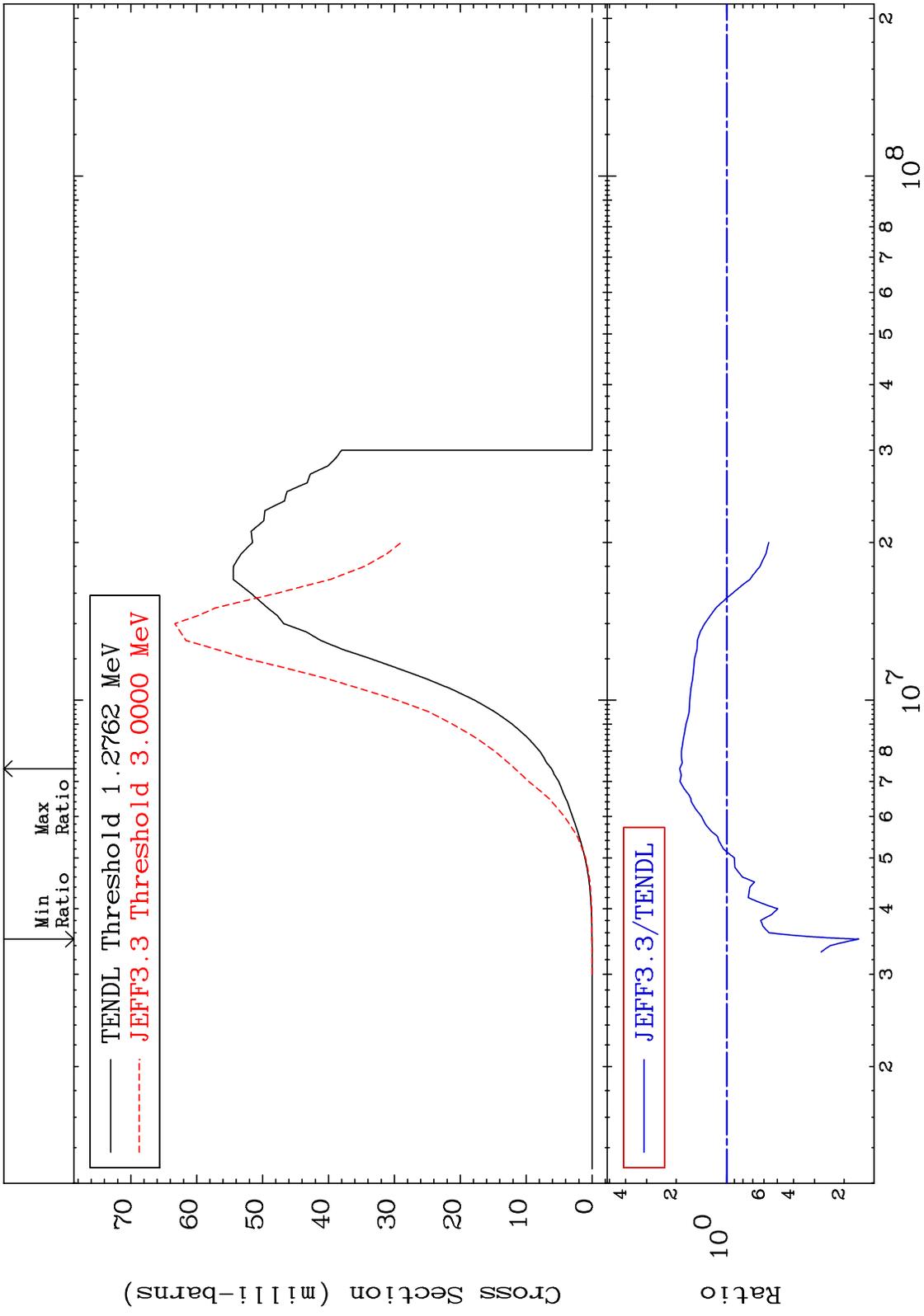


30

Incident Energy (eV)

42-Mo-94

MAT 4231 (n,p) Cross Section 42-Mo-94 -83.64 To 90.53 %



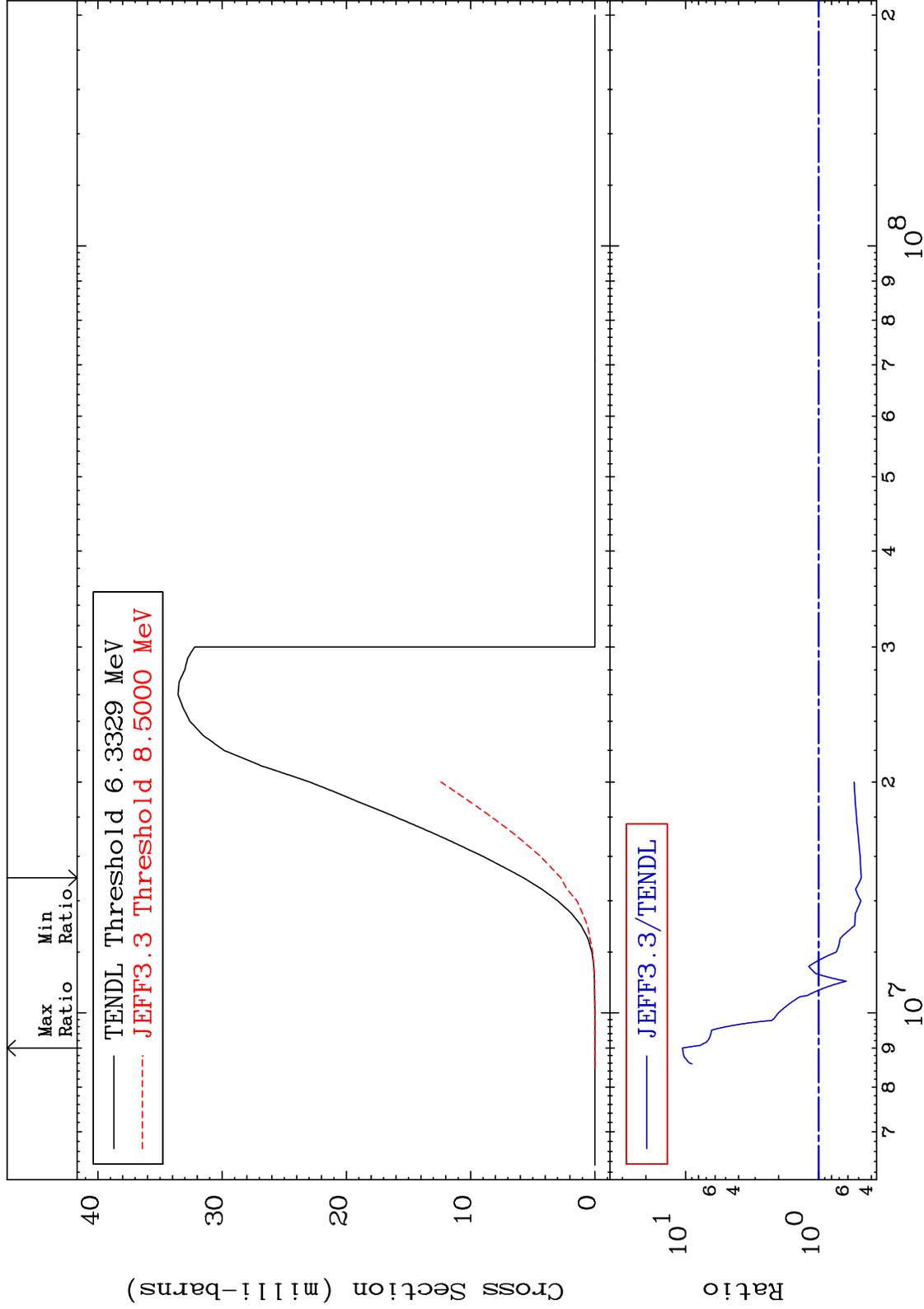
MAT 4231

(n,d)

42-Mo-94

Cross Section

-52.34 To 958.8 %



32

Incident Energy (eV)

42-Mo-94

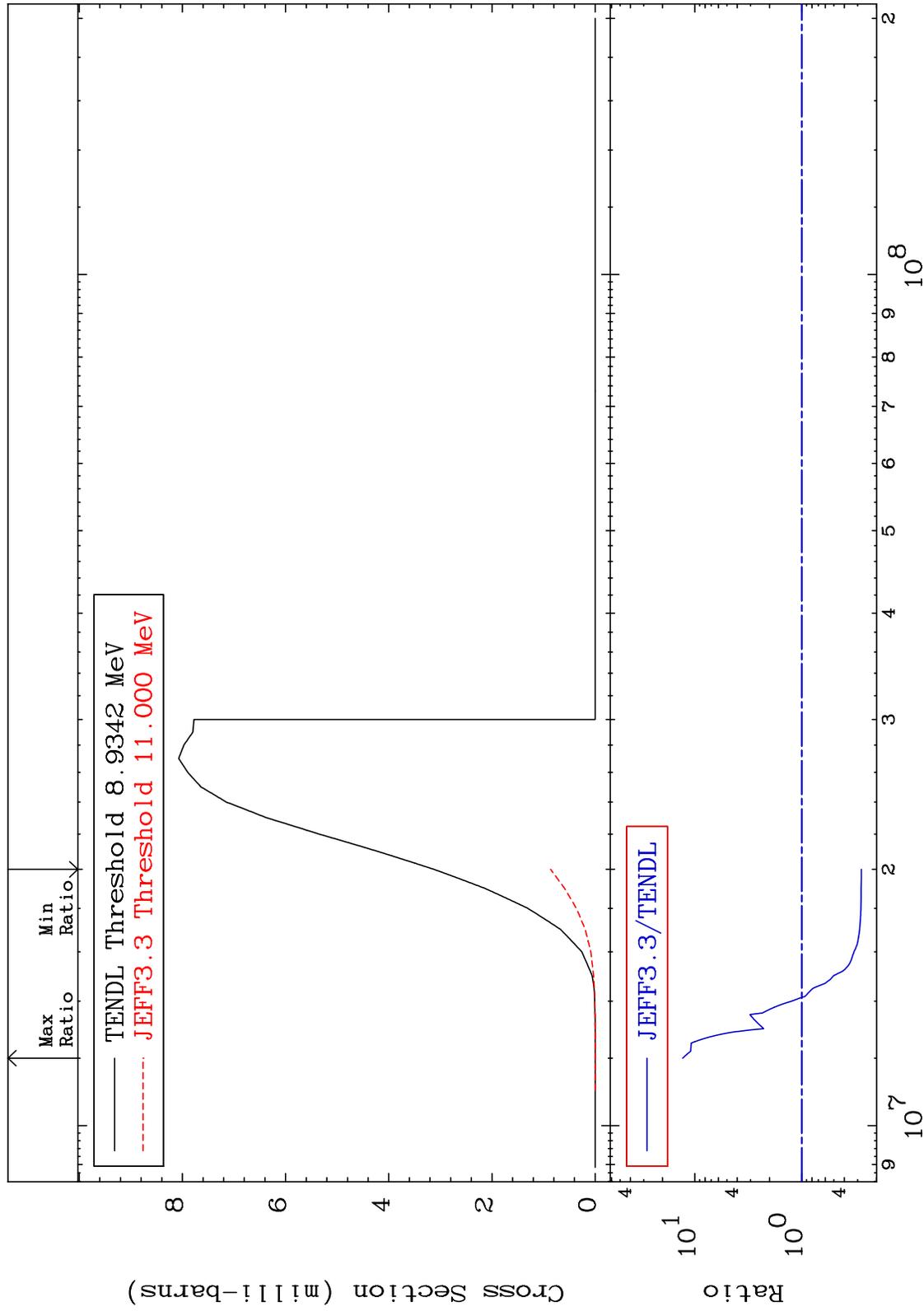
MAT 4231

(n,t)

42-Mo-94

Cross Section

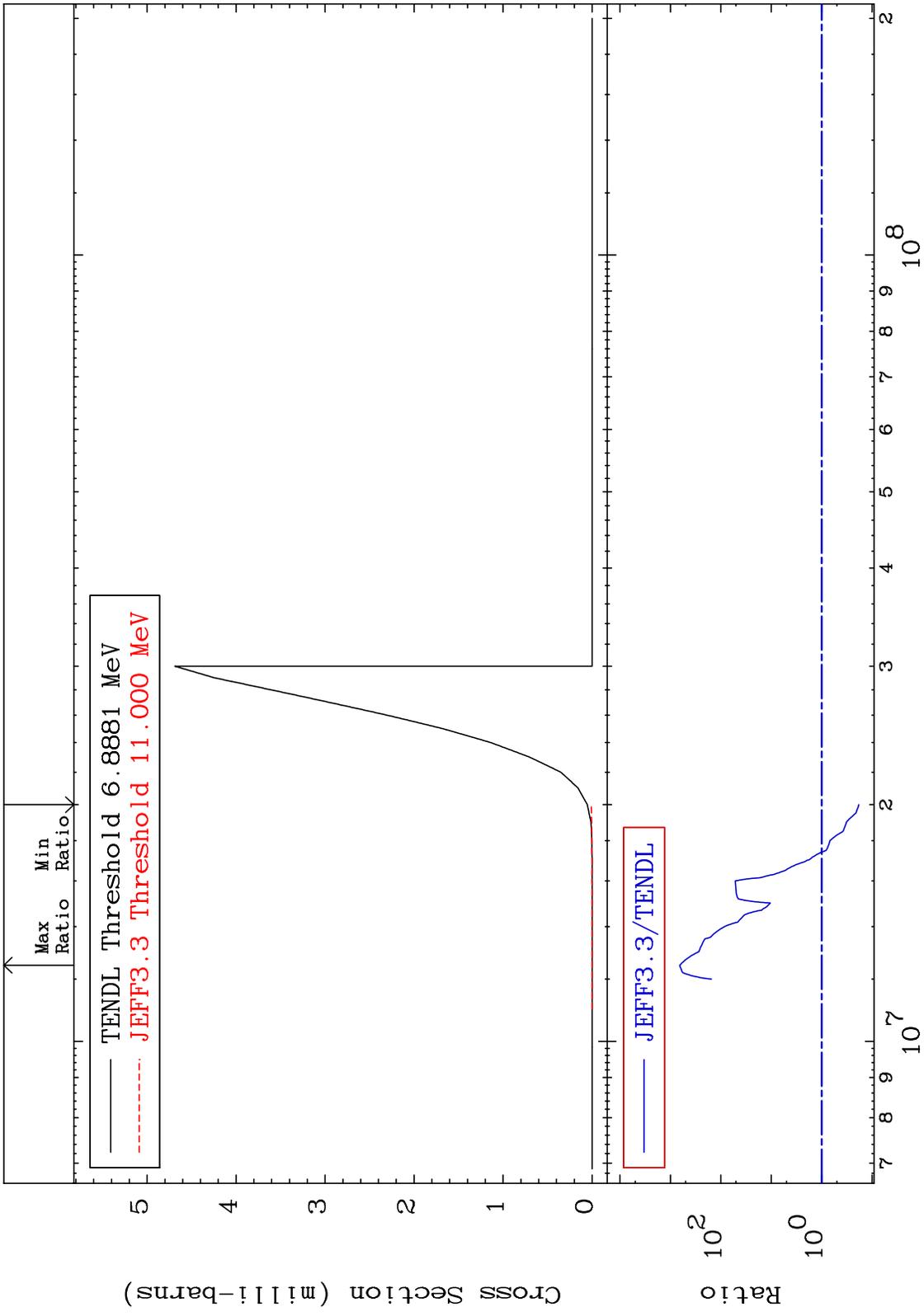
-72.37 To 1197. %



33

Incident Energy (eV)

42-Mo-94



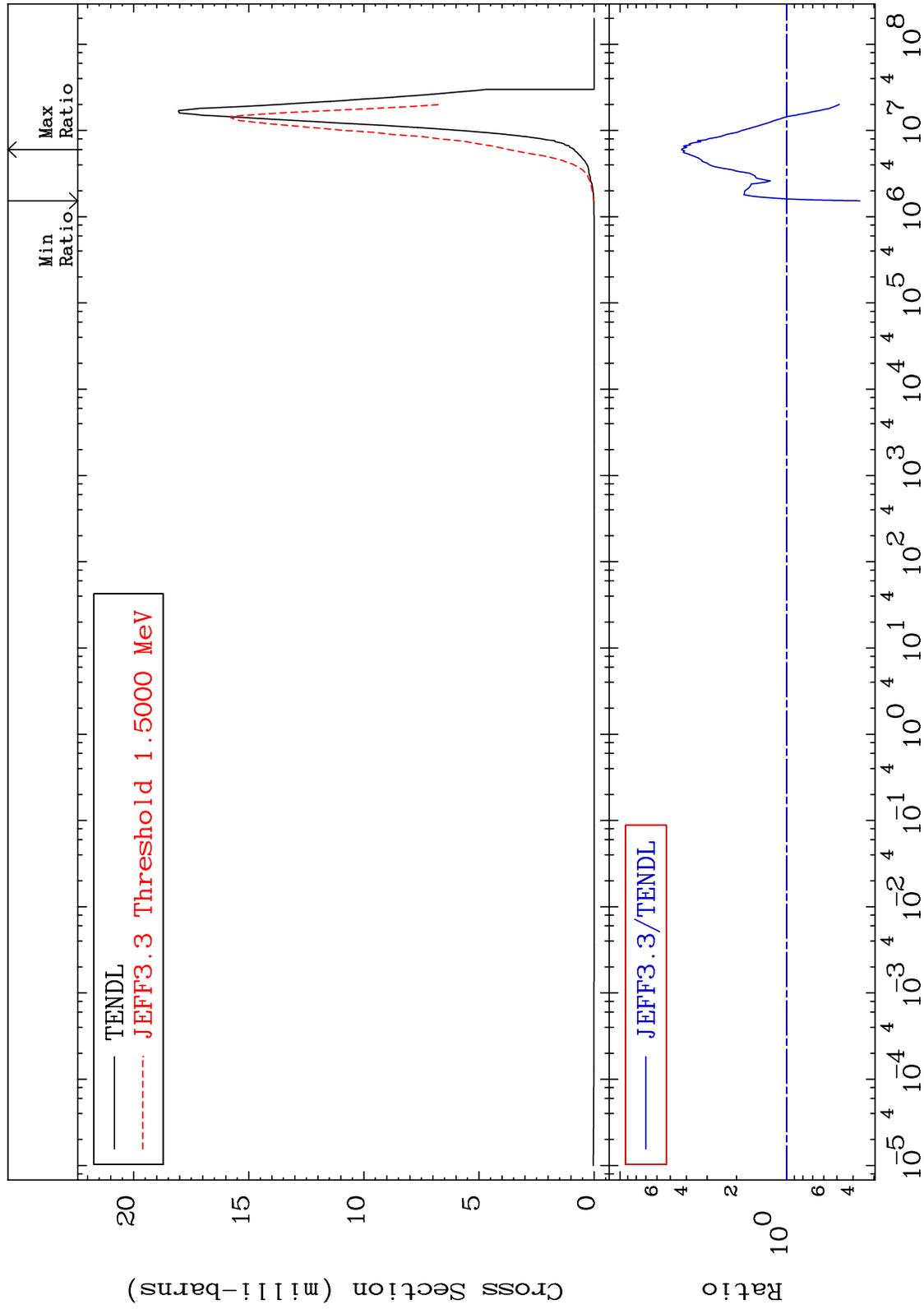
MAT 4231

(n,  $\alpha$ )

42-Mo-94

Cross Section

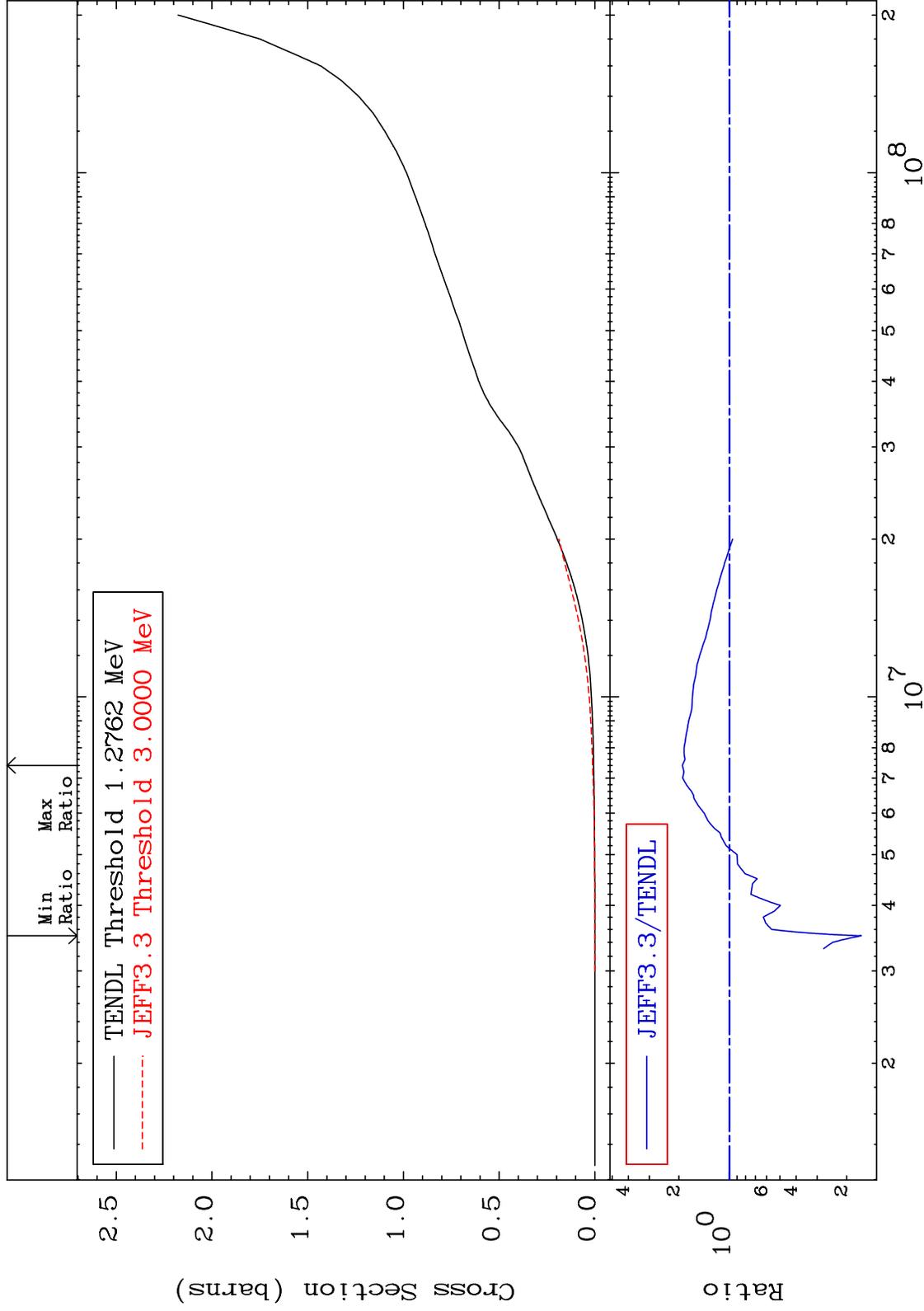
-63.55 To 328.2 %



MAT 4231

Hydrogen Production  
Cross Section

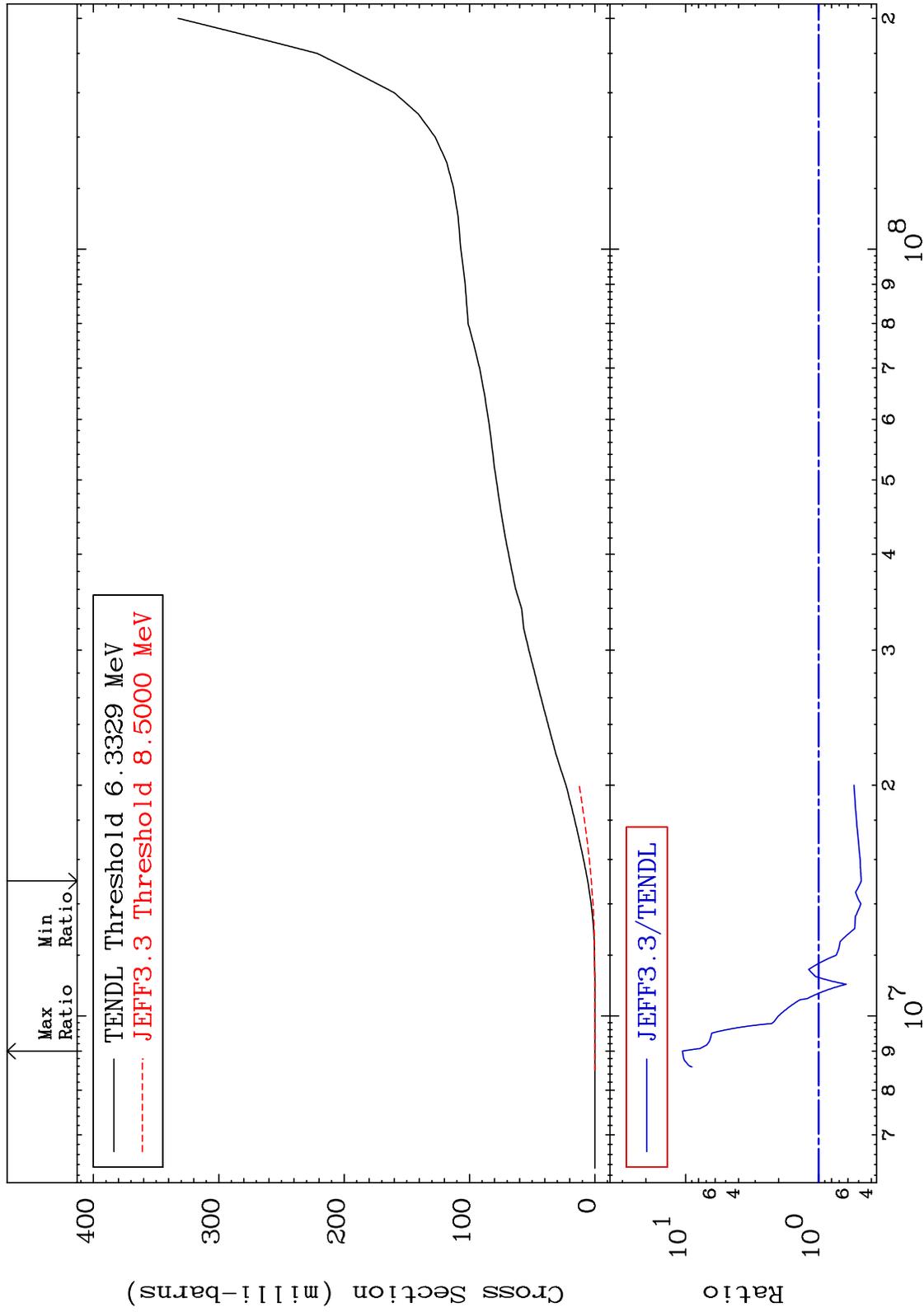
42-Mo-94  
-83.64 To 90.53 %



MAT 4231

Deuterium Production  
Cross Section

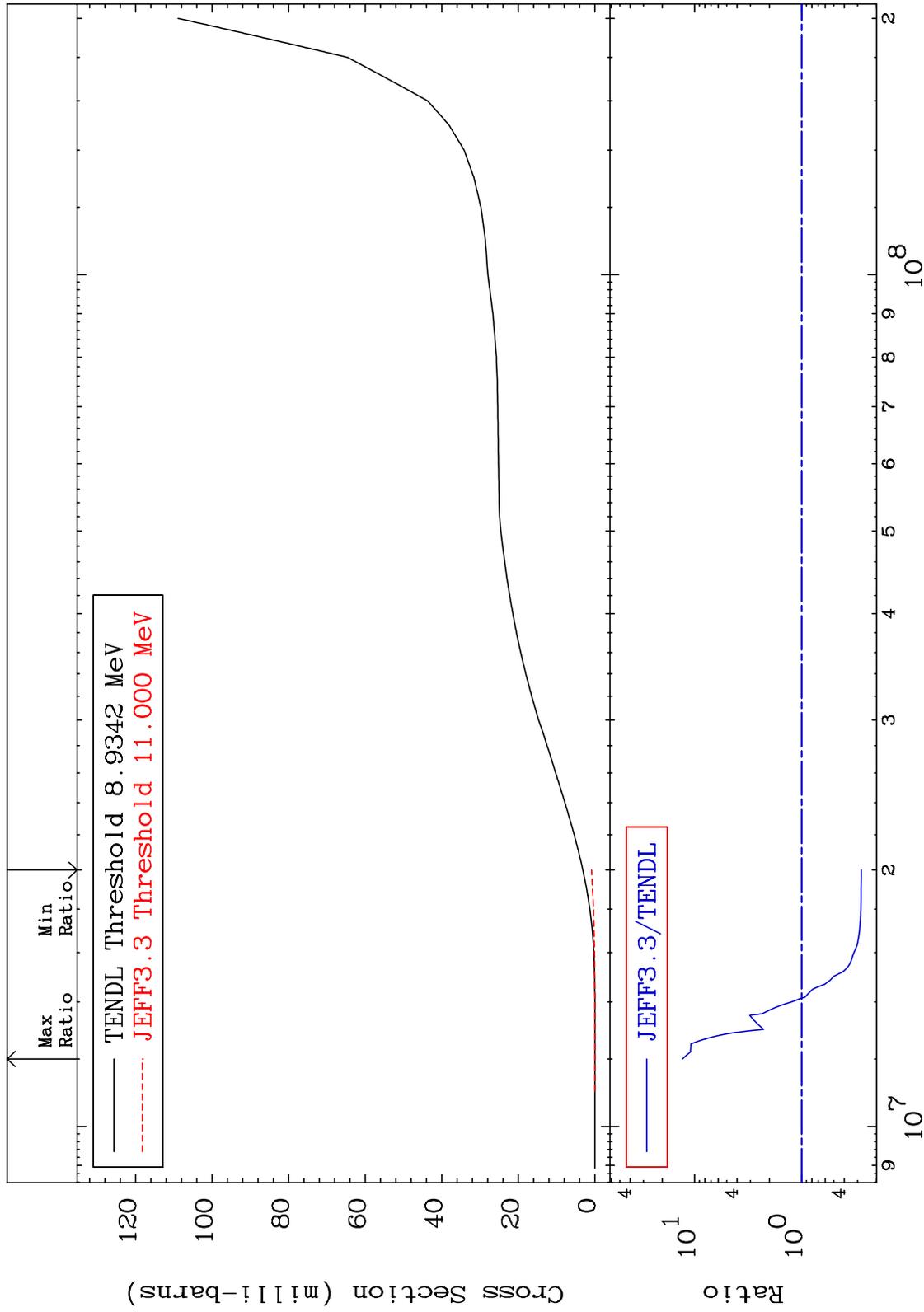
42-Mo-94  
-52.34 To 958.8 %



MAT 4231

Tritium Production  
Cross Section

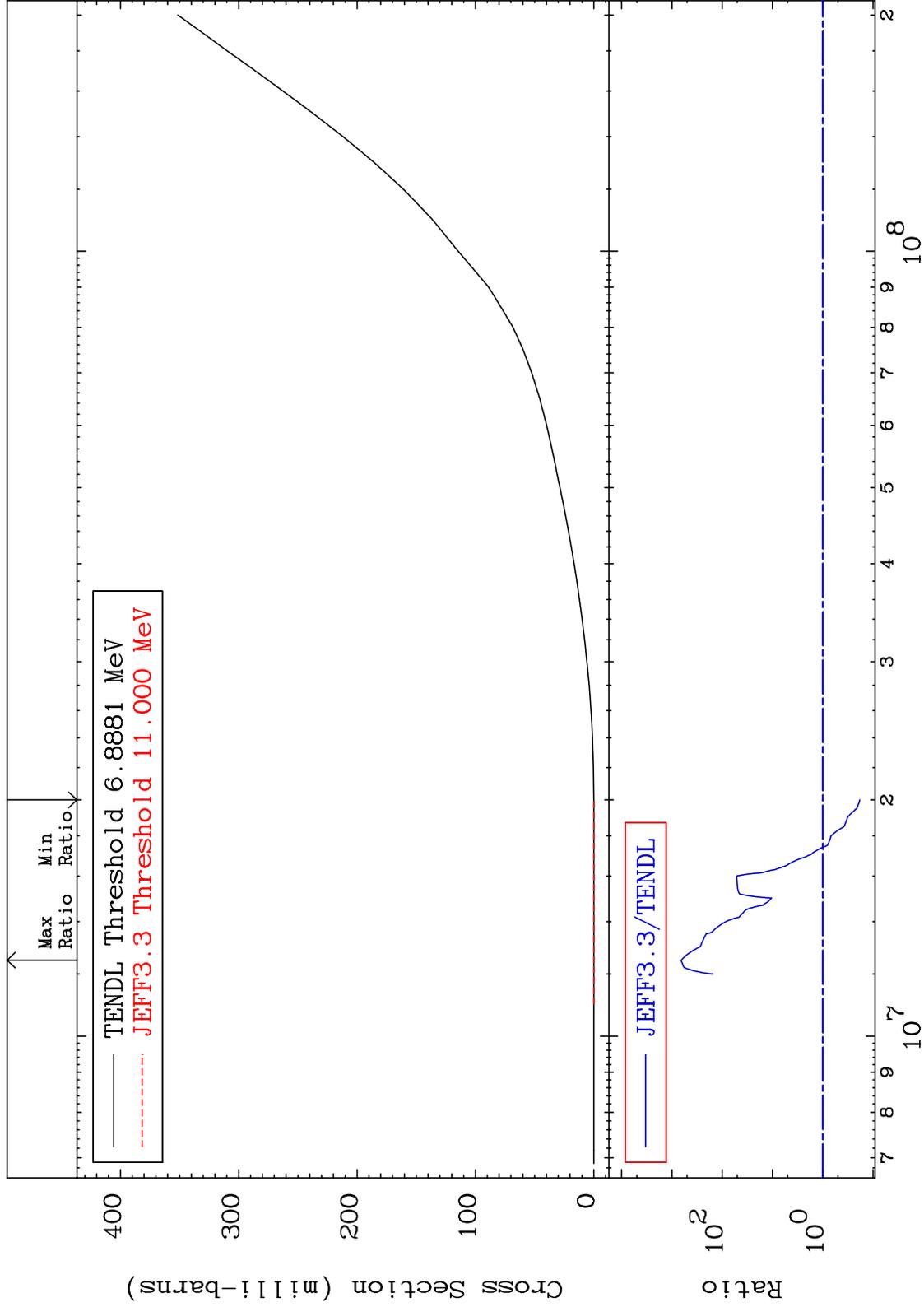
42-Mo-94  
-72.37 To 1197. %



MAT 4231

He-3 Production  
Cross Section

42-Mo-94  
-81.64 To 9999. %



39

Incident Energy (eV)

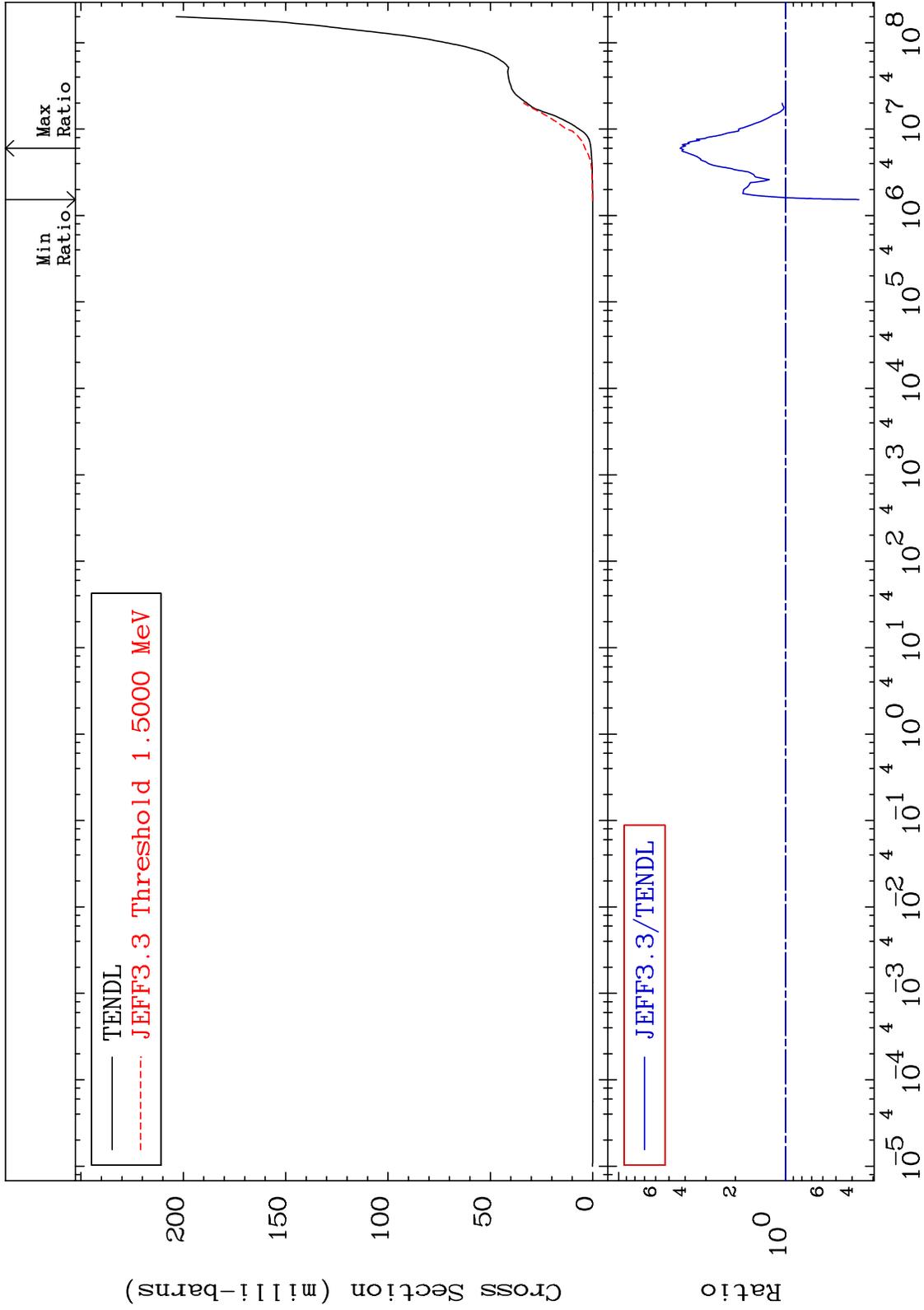
42-Mo-94

MAT 4231

He-4 Production  
Cross Section

42-Mo-94

-63.55 To 328.2 %

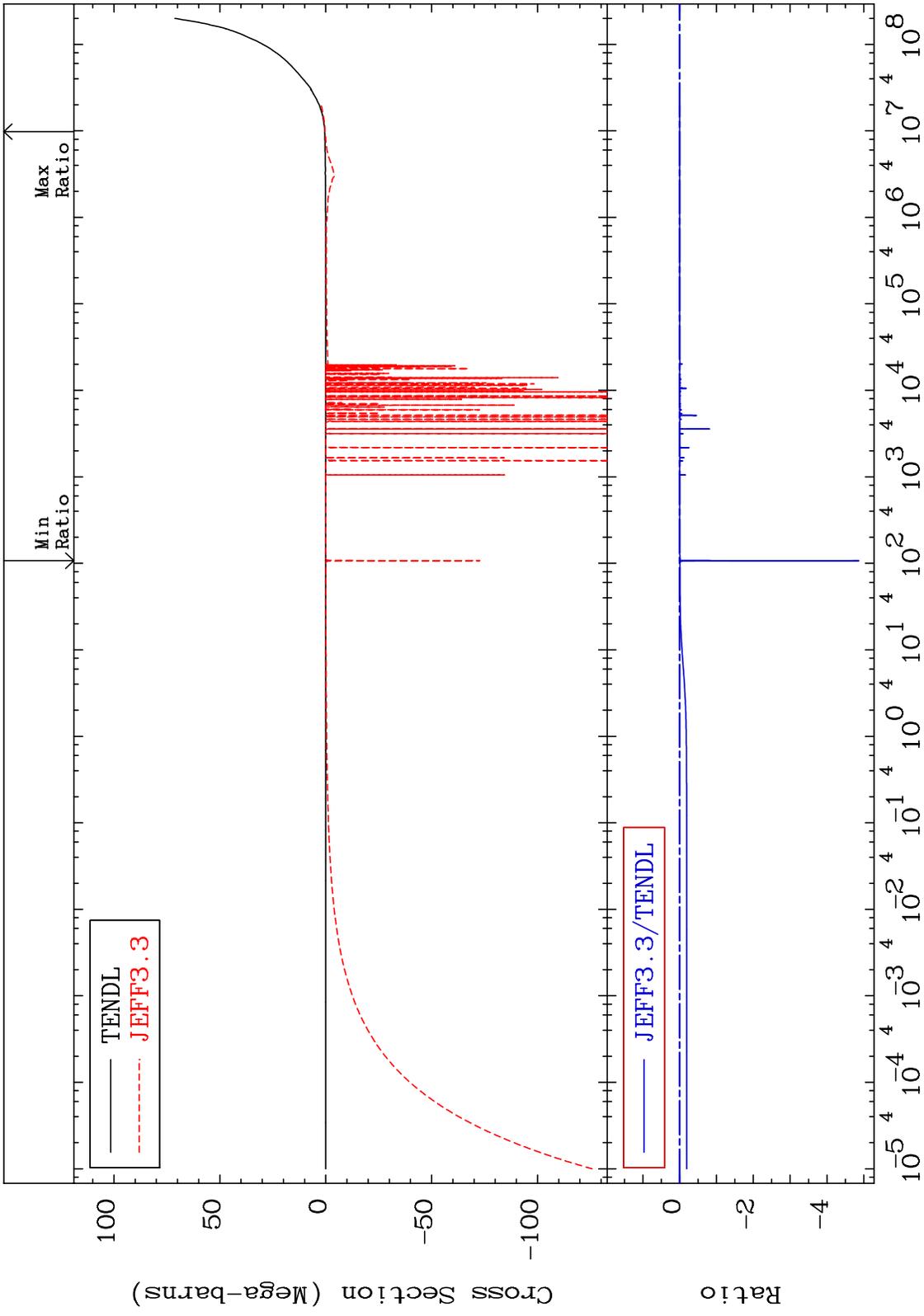


40

Incident Energy (eV)

42-Mo-94

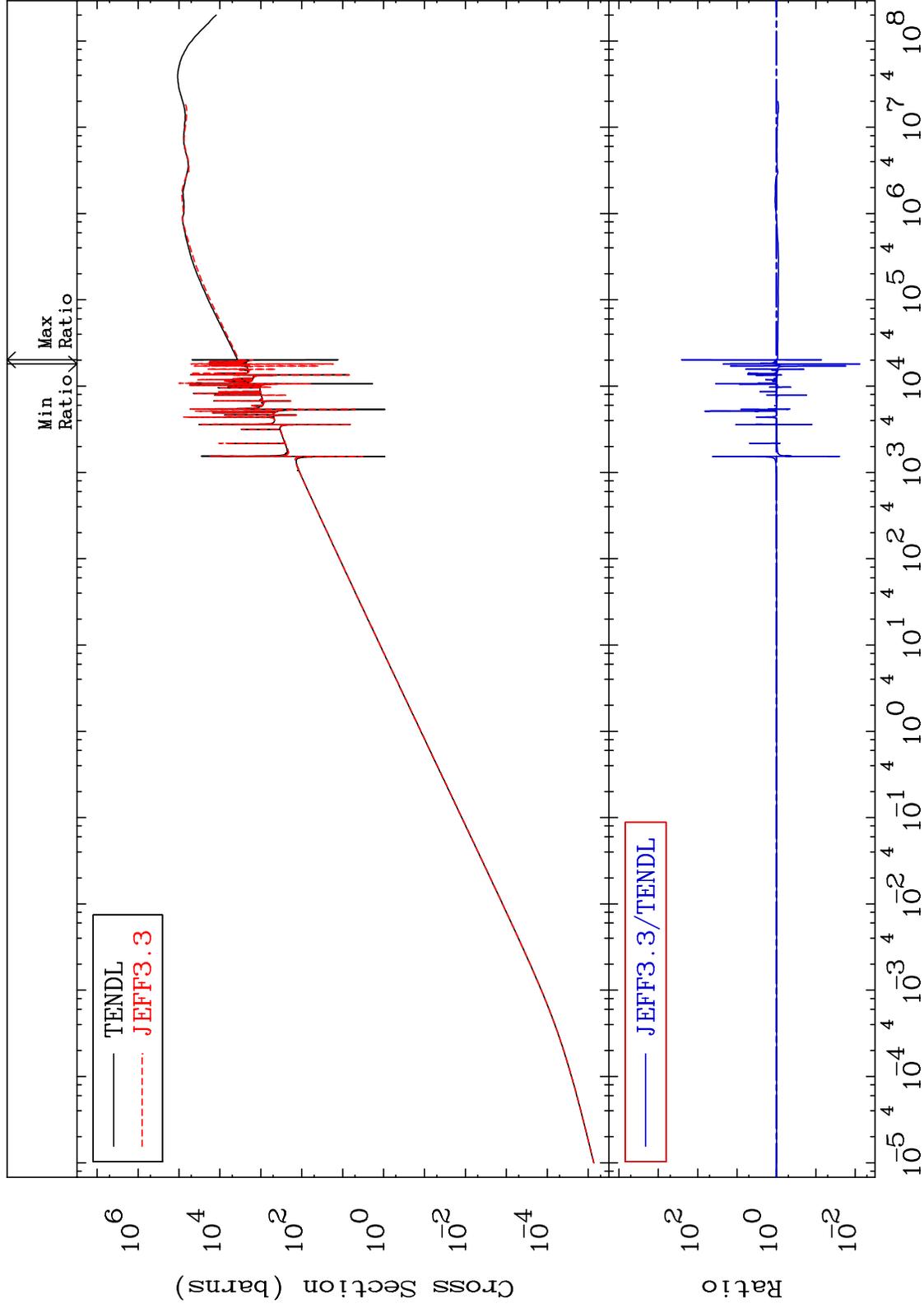
MAT 4231 Kerma total (eV-barns) Cross Section 42-Mo-94  
 -9999. To -19.97%



MAT 4231

Kerma elastic  
Cross Section

42-Mo-94  
-99.24 To 9999. %

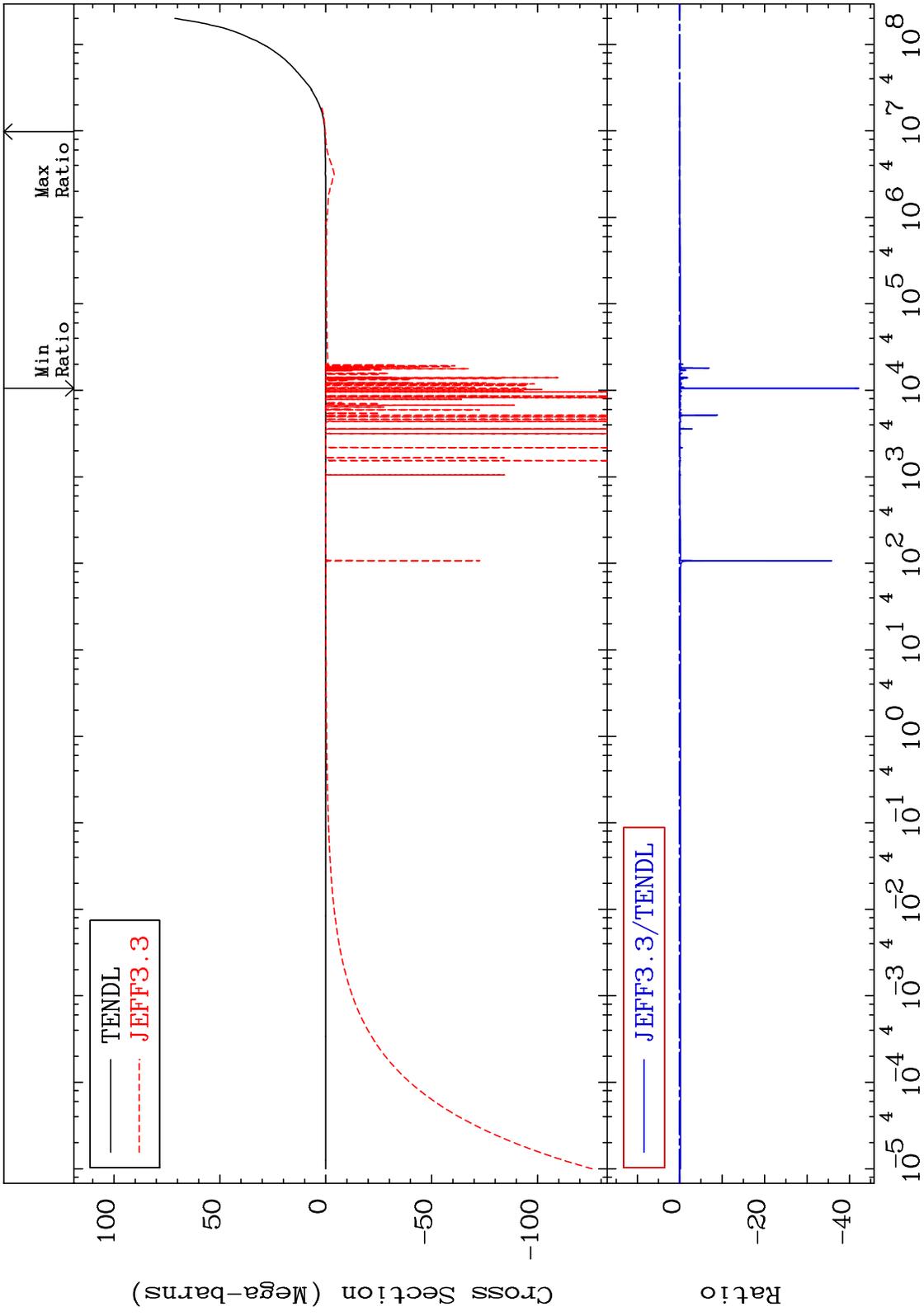


42

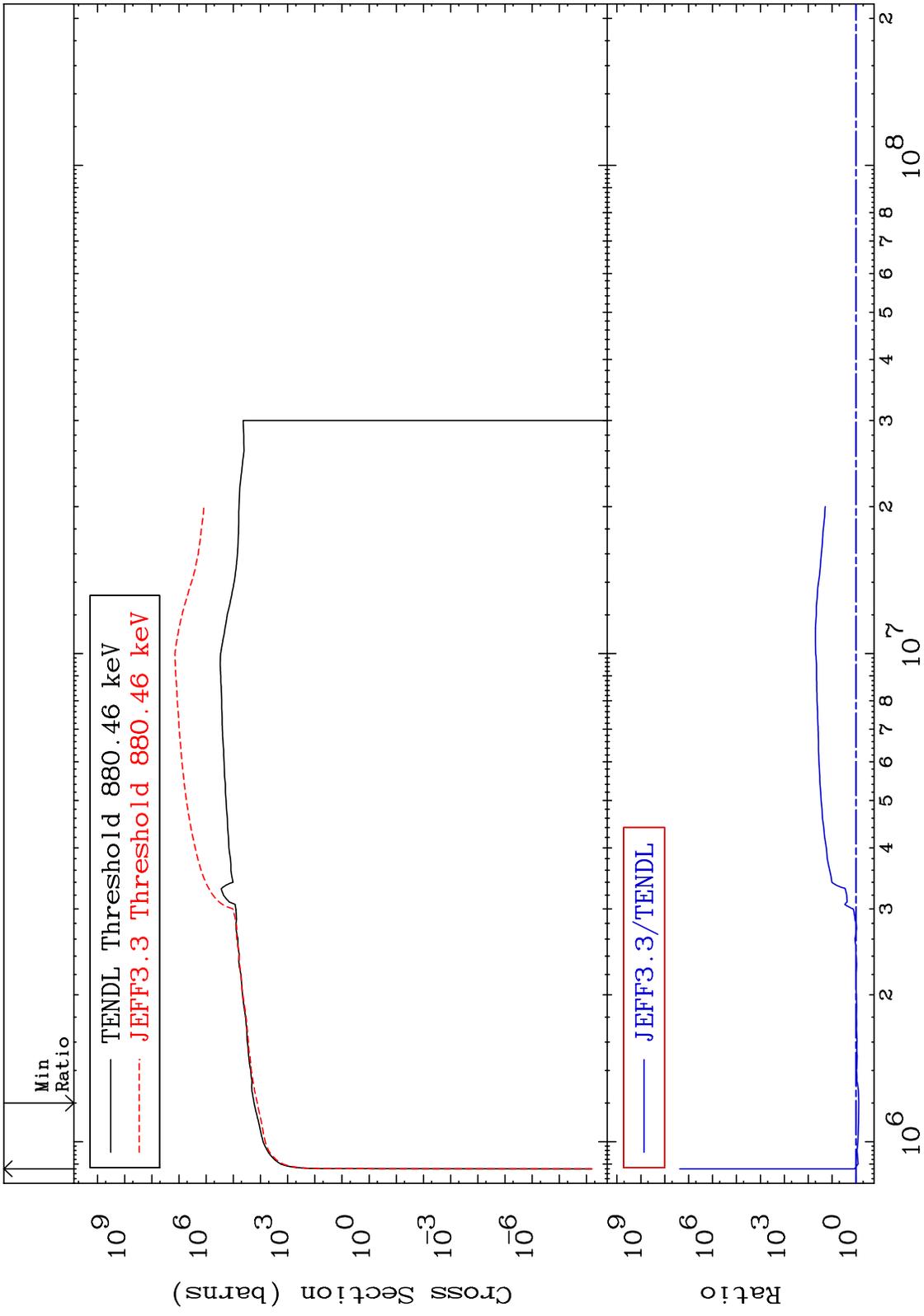
Incident Energy (eV)

42-Mo-94

MAT 4231 Kerma non-elastic (all but mt2) Cross Section 42-Mo-94  
 -9999. To -22.56%



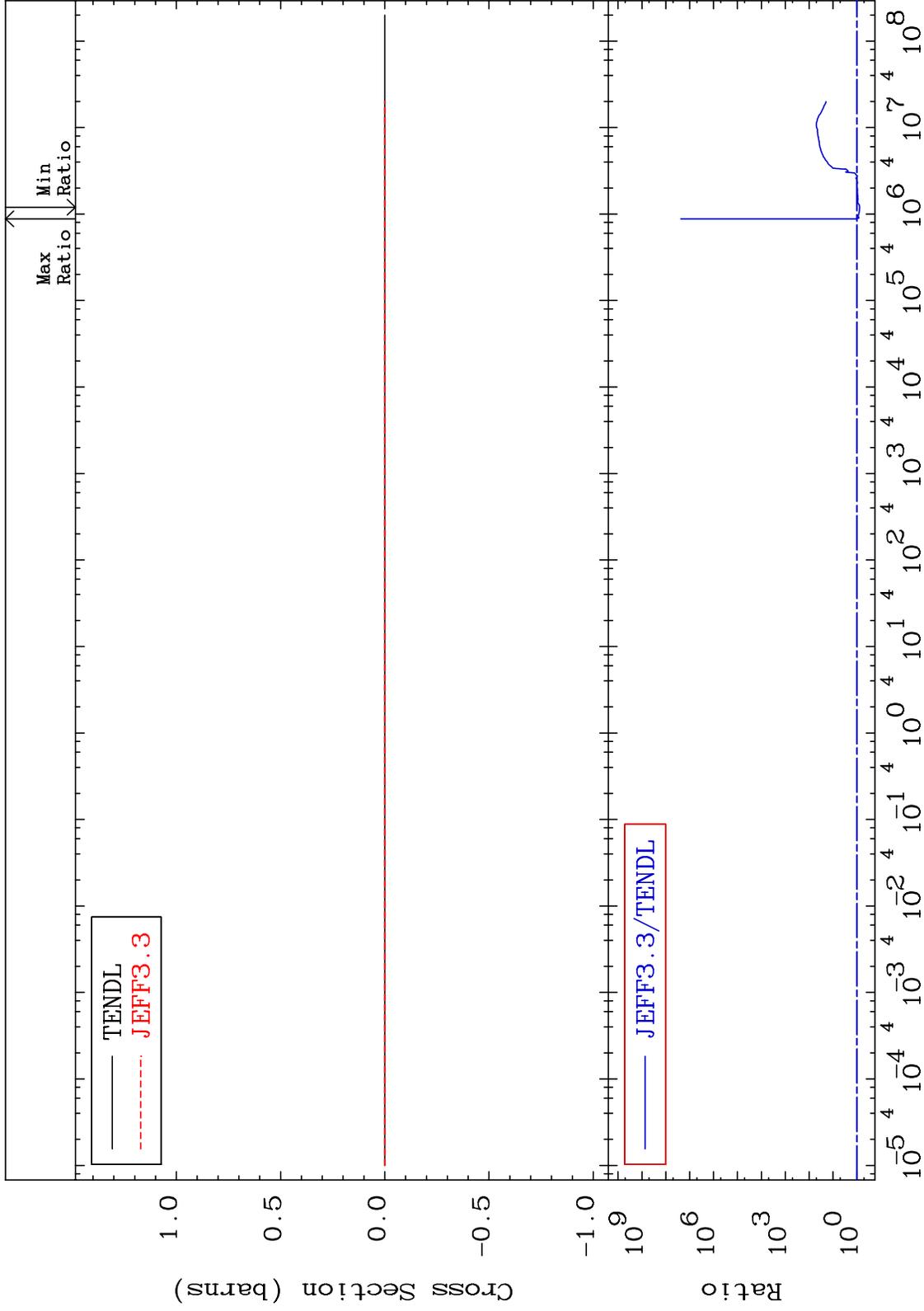
MAT 4231 Kerma inelastic (mt51-91) 42-Mo-94  
 Cross Section -23.49 To 9999. %



MAT 4231

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

42-Mo-94  
-23.49 To 9999. %



45

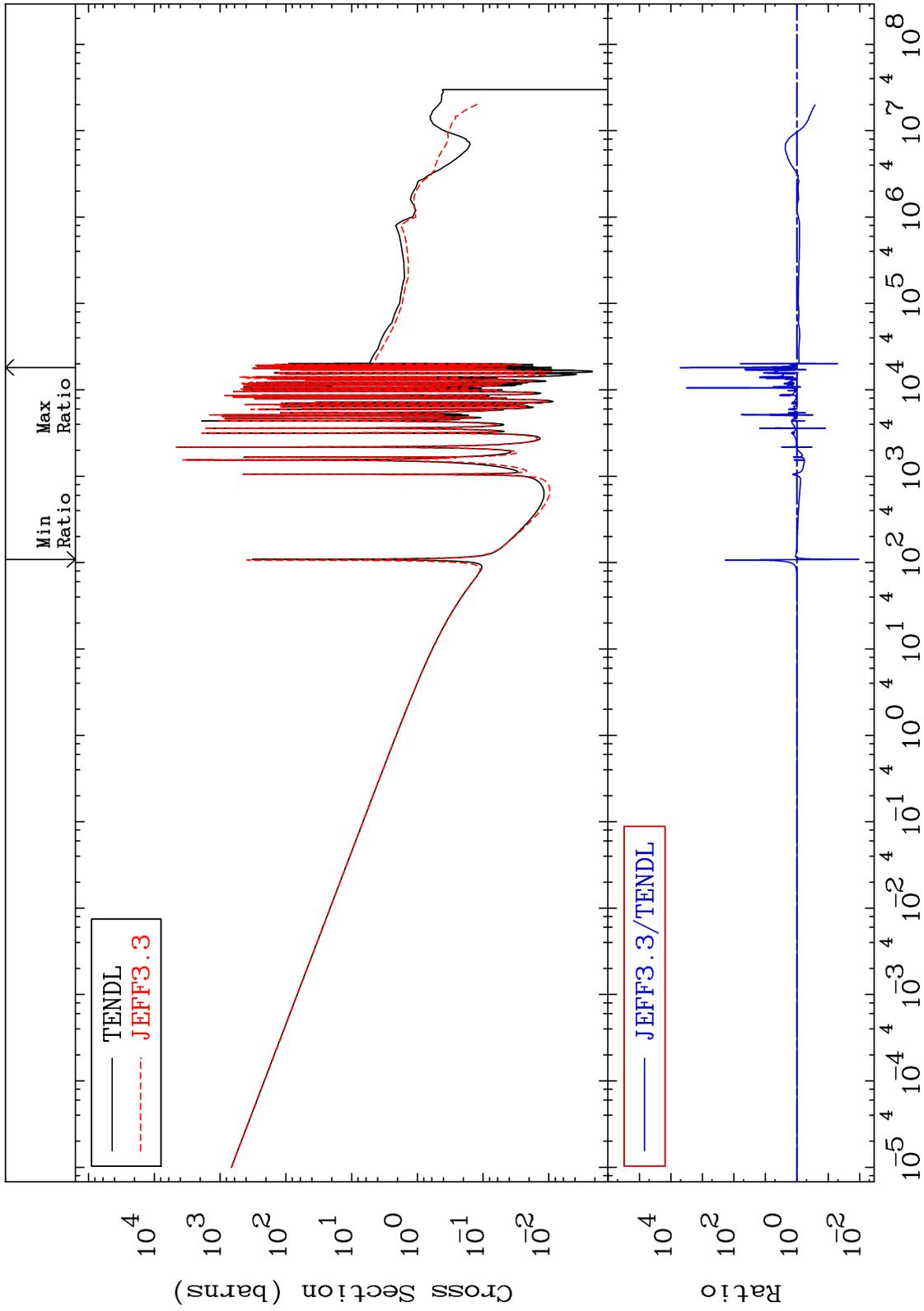
Incident Energy (eV)

42-Mo-94

MAT 4231

Kerma capture (mt102)  
Cross Section

42-Mo-94  
-98.93 To 9999. %



46

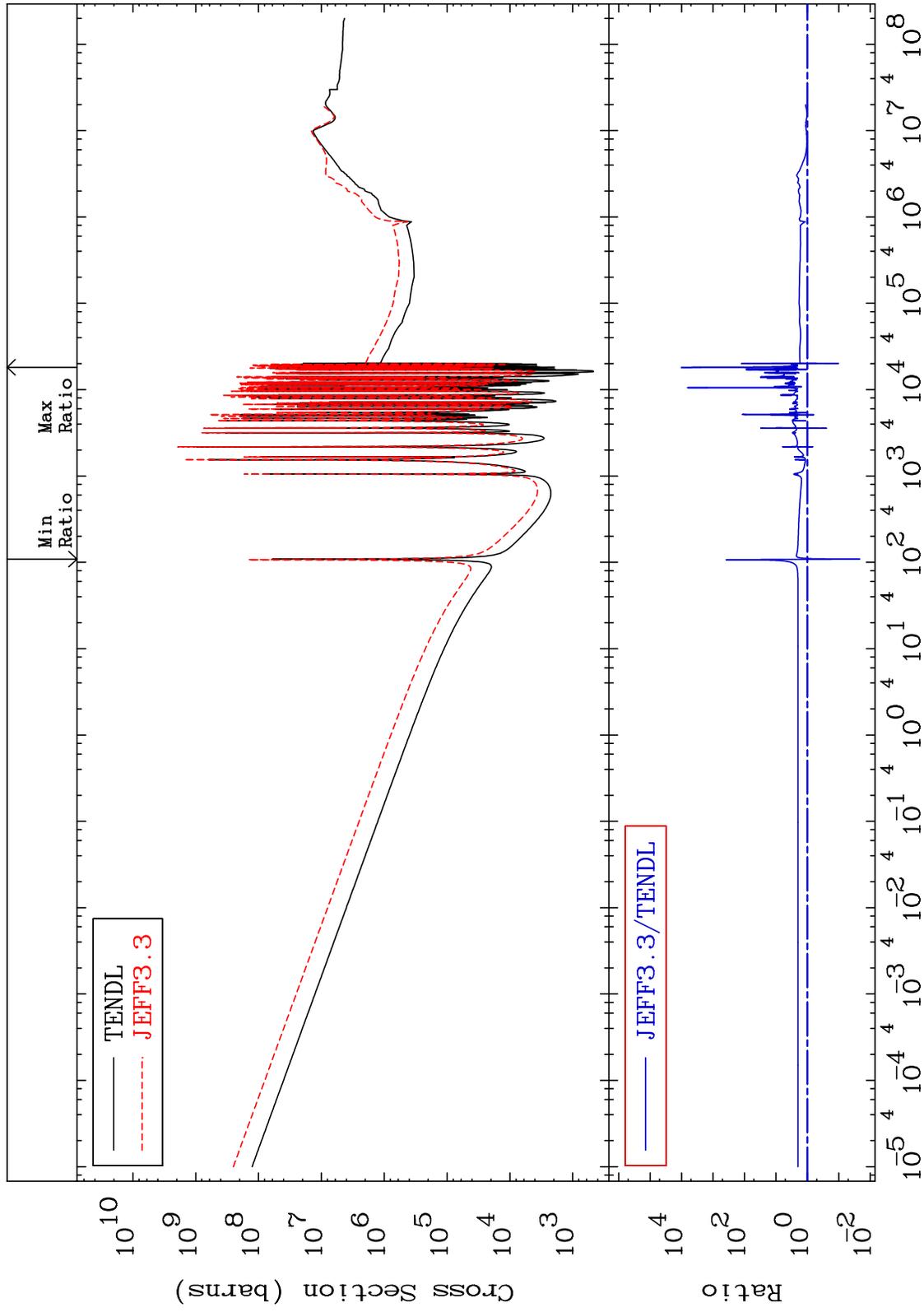
Incident Energy (eV)

42-Mo-94

MAT 4231

Total photon (eV-barns)  
Cross Section

42-Mo-94  
-97.87 To 9999. %

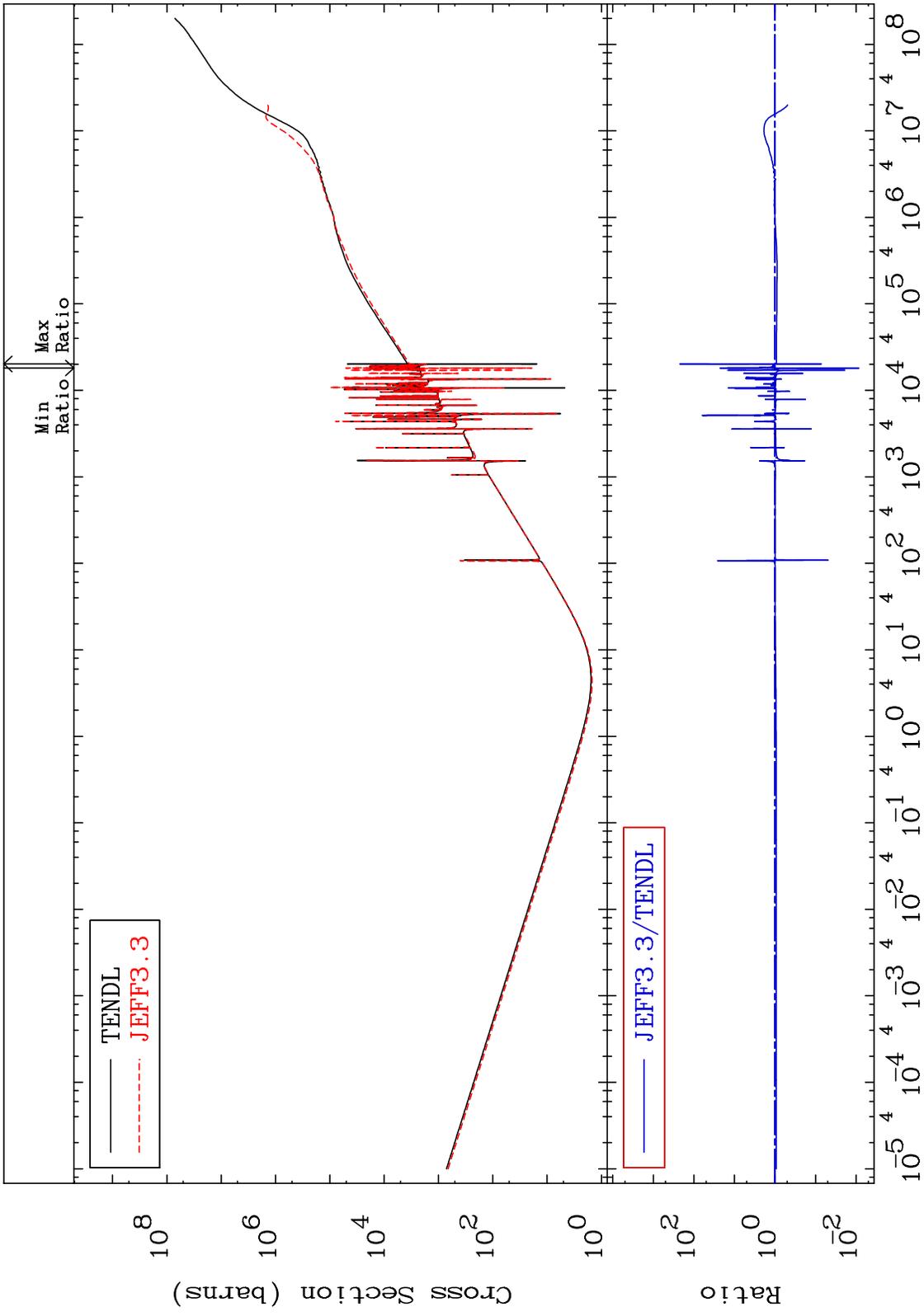


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Incident Energy (eV)

42-Mo-94

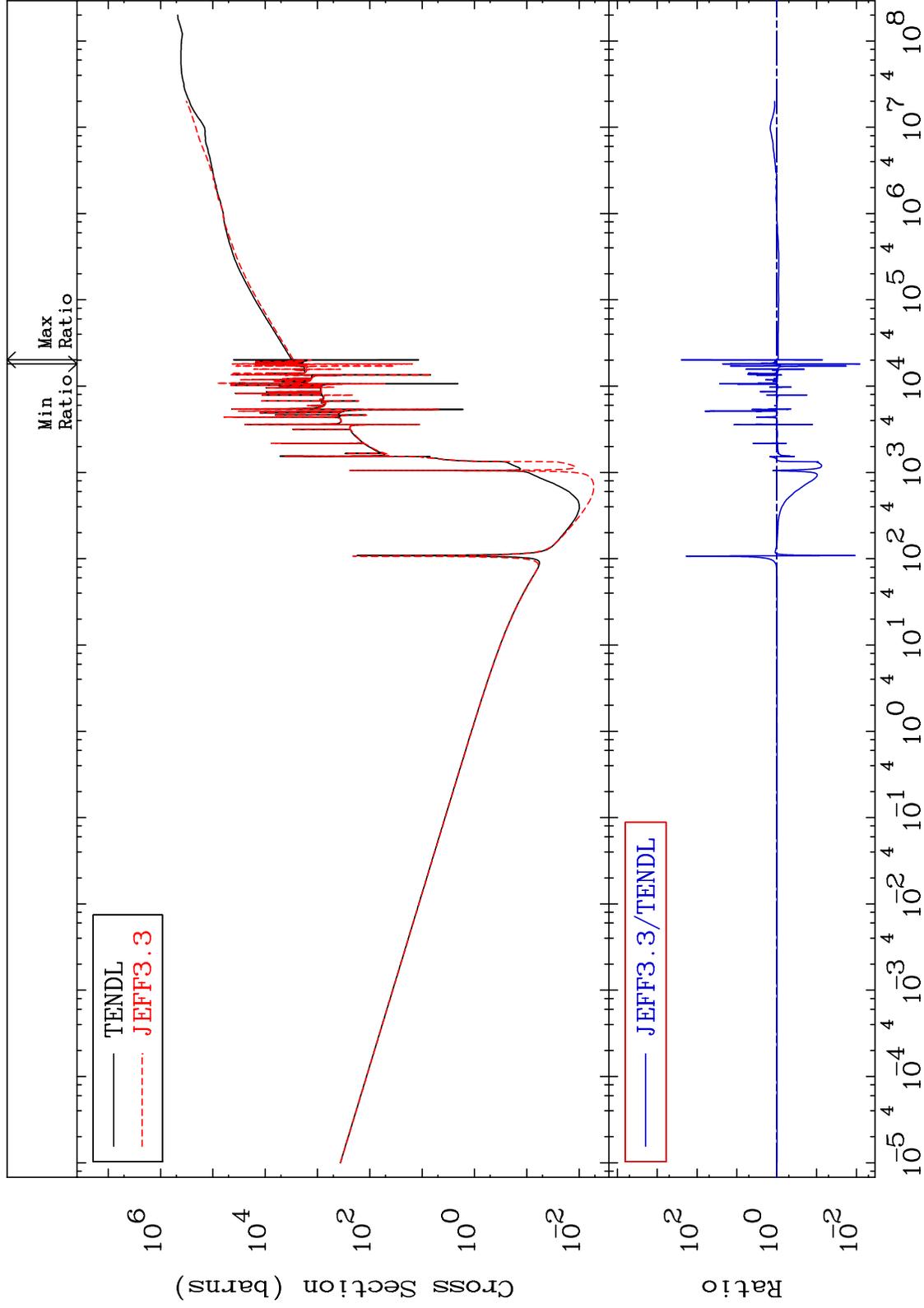
MAT 4231 Total kinematic kerma (high limit) 42-Mo-94  
 Cross Section -99.14 To 9999. %



MAT 4231

Dpa total (eV-barns)  
Cross Section

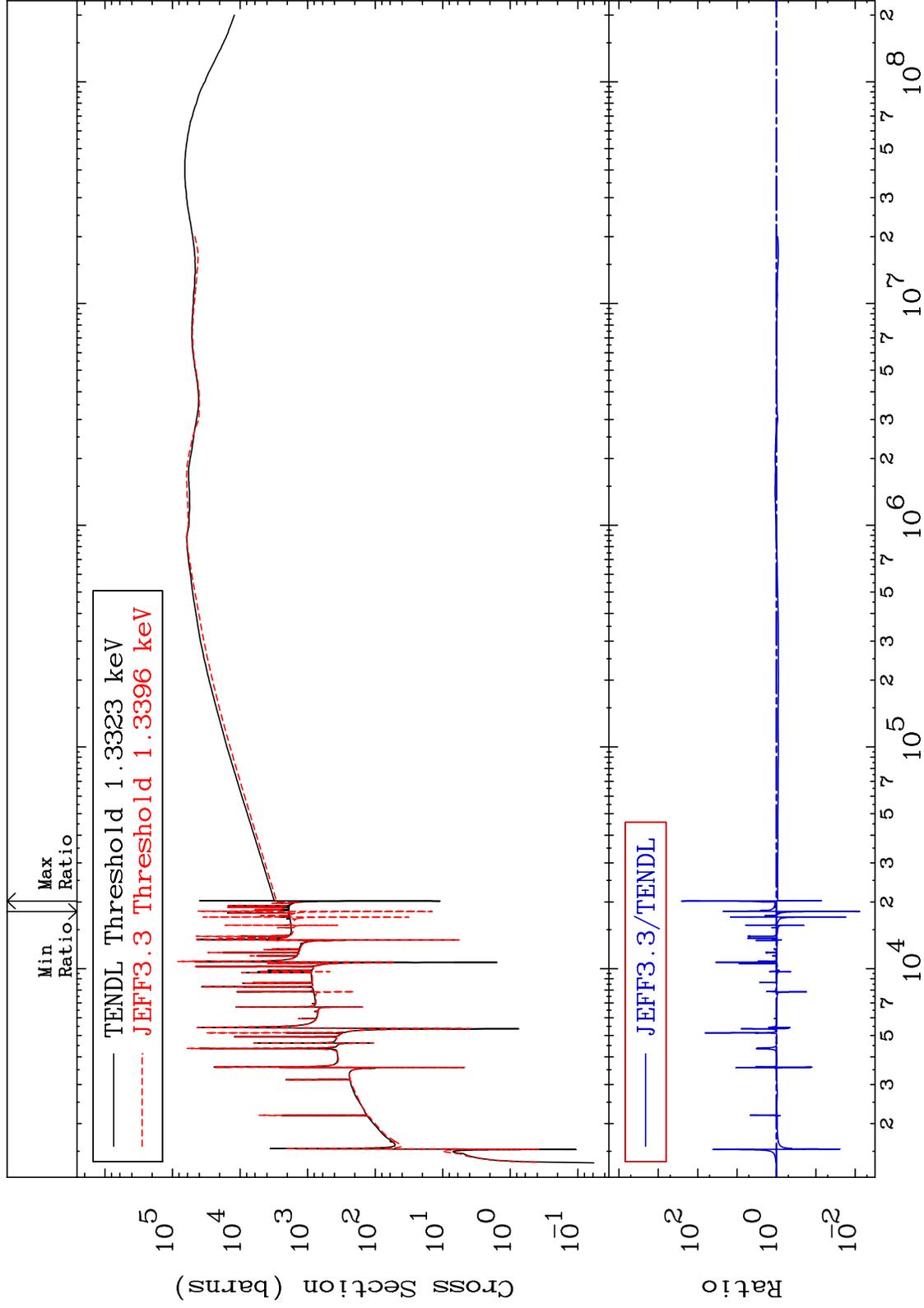
42-Mo-94  
-99.18 To 9999. %



MAT 4231

Dpa elastic (mt2)  
Cross Section

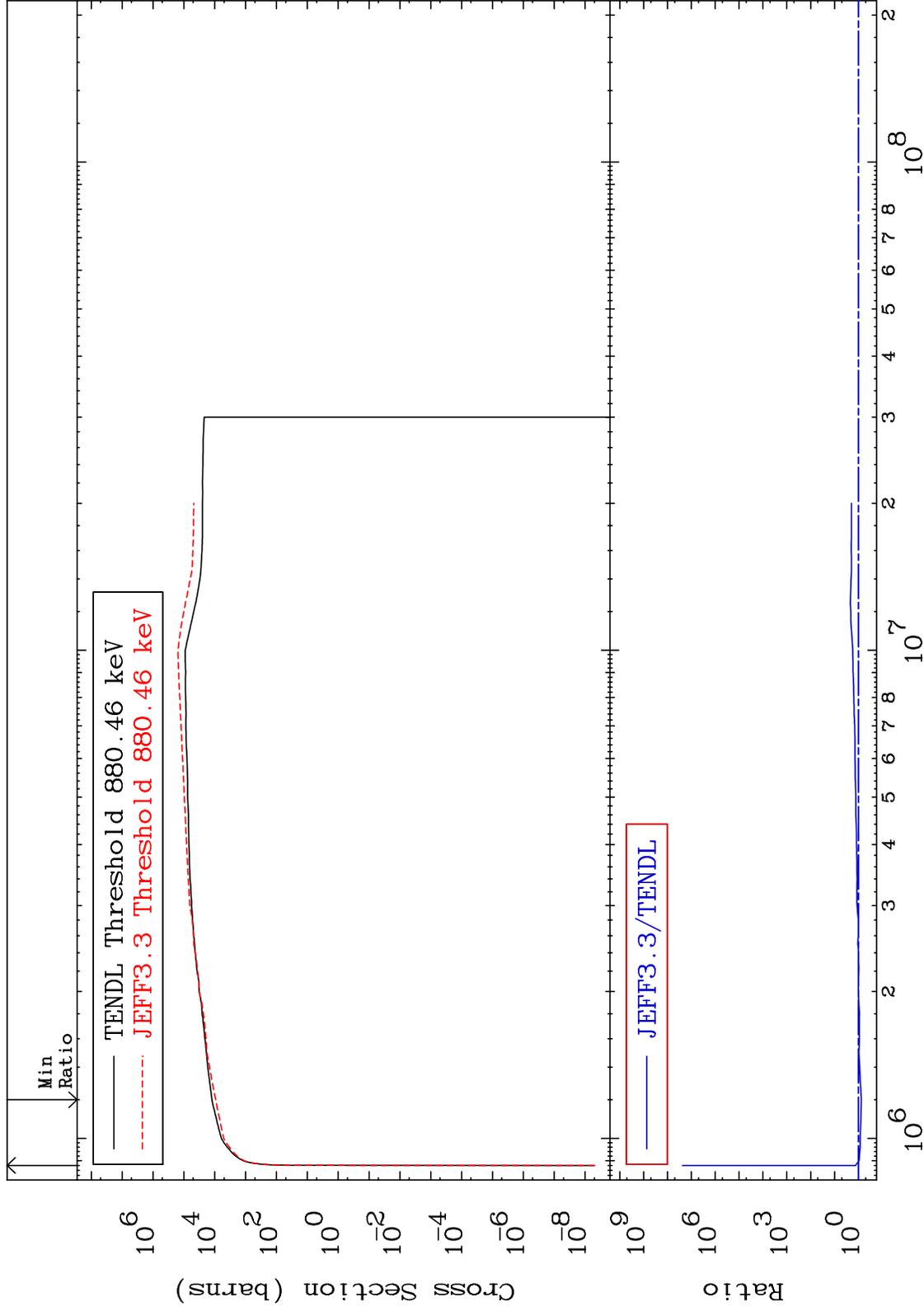
42-Mo-94  
-99.24 To 9999. %



MAT 4231

Dpa inelastic (mt51-91)  
Cross Section

42-Mo-94  
-24.63 To 9999. %



51

Incident Energy (eV)

42-Mo-94

MAT 4231

Dpa disappearance (mt102 -120)  
Cross Section

42-Mo-94  
-98.93 To 9999. %

