

Program Complot  
(Version 2018-1)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550

U.S.A.

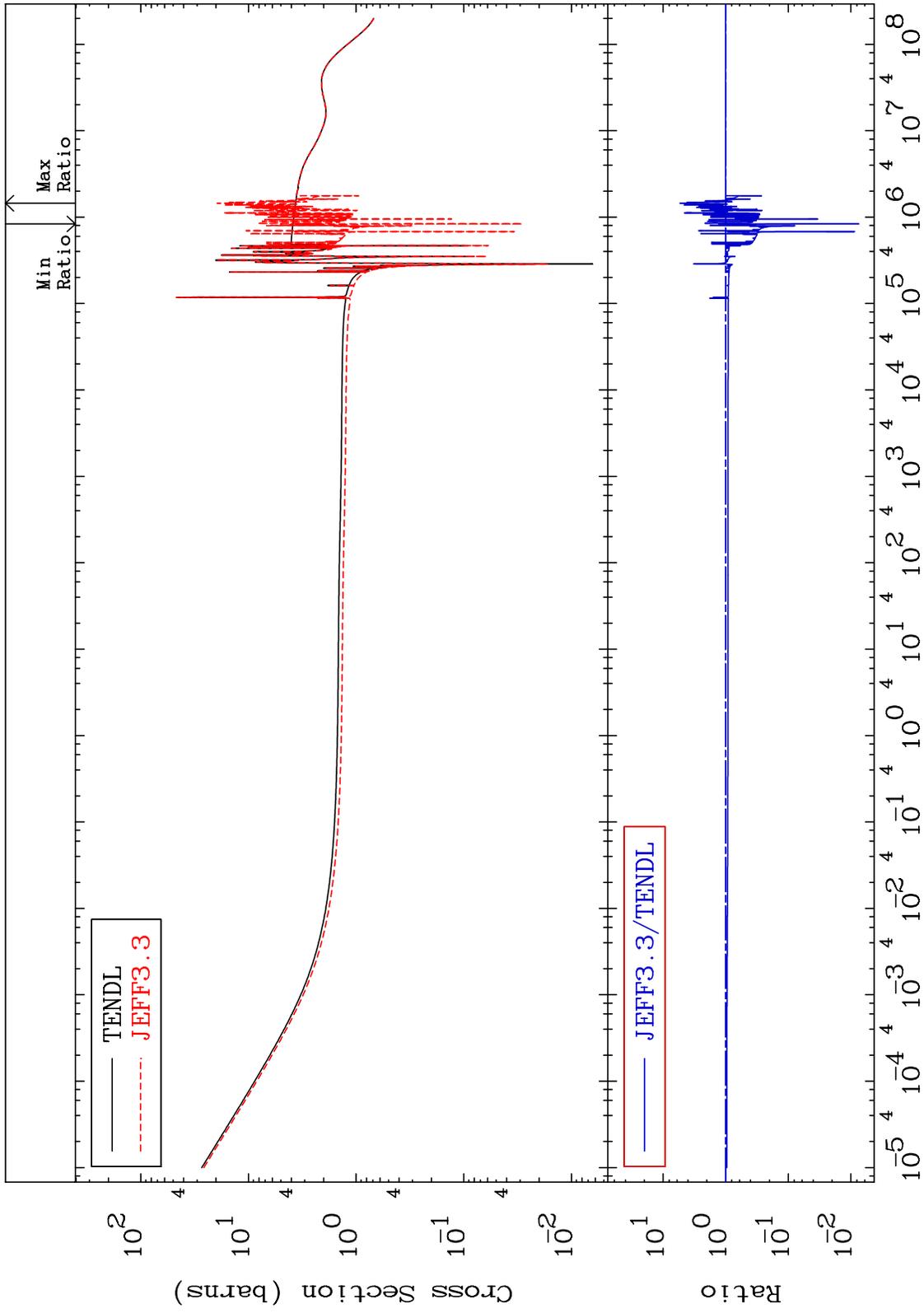
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 1631 Total Cross Section 16-S -34

-99.26 To 432.9 %

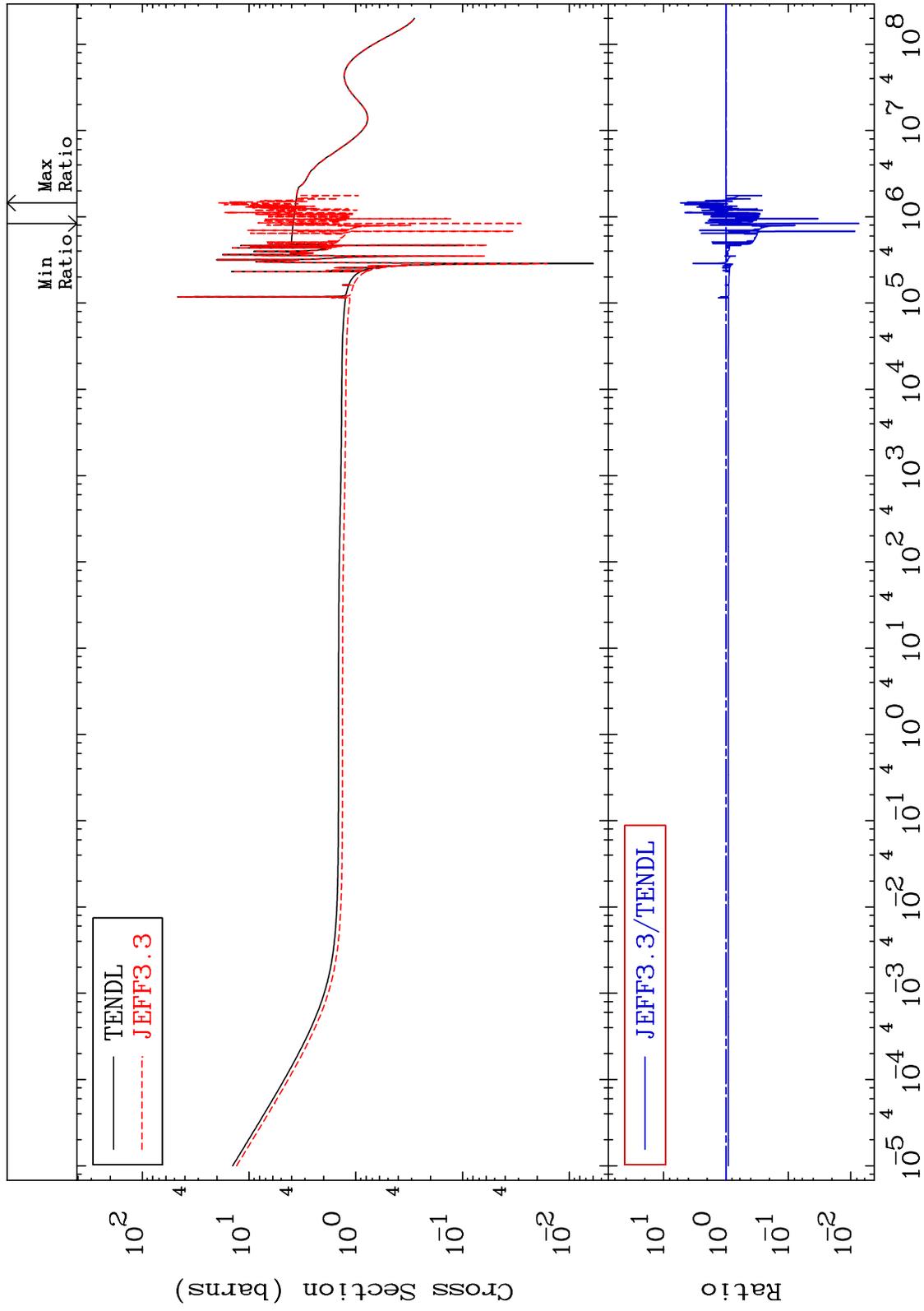


16-S -34

MAT 1631

Elastic  
Cross Section

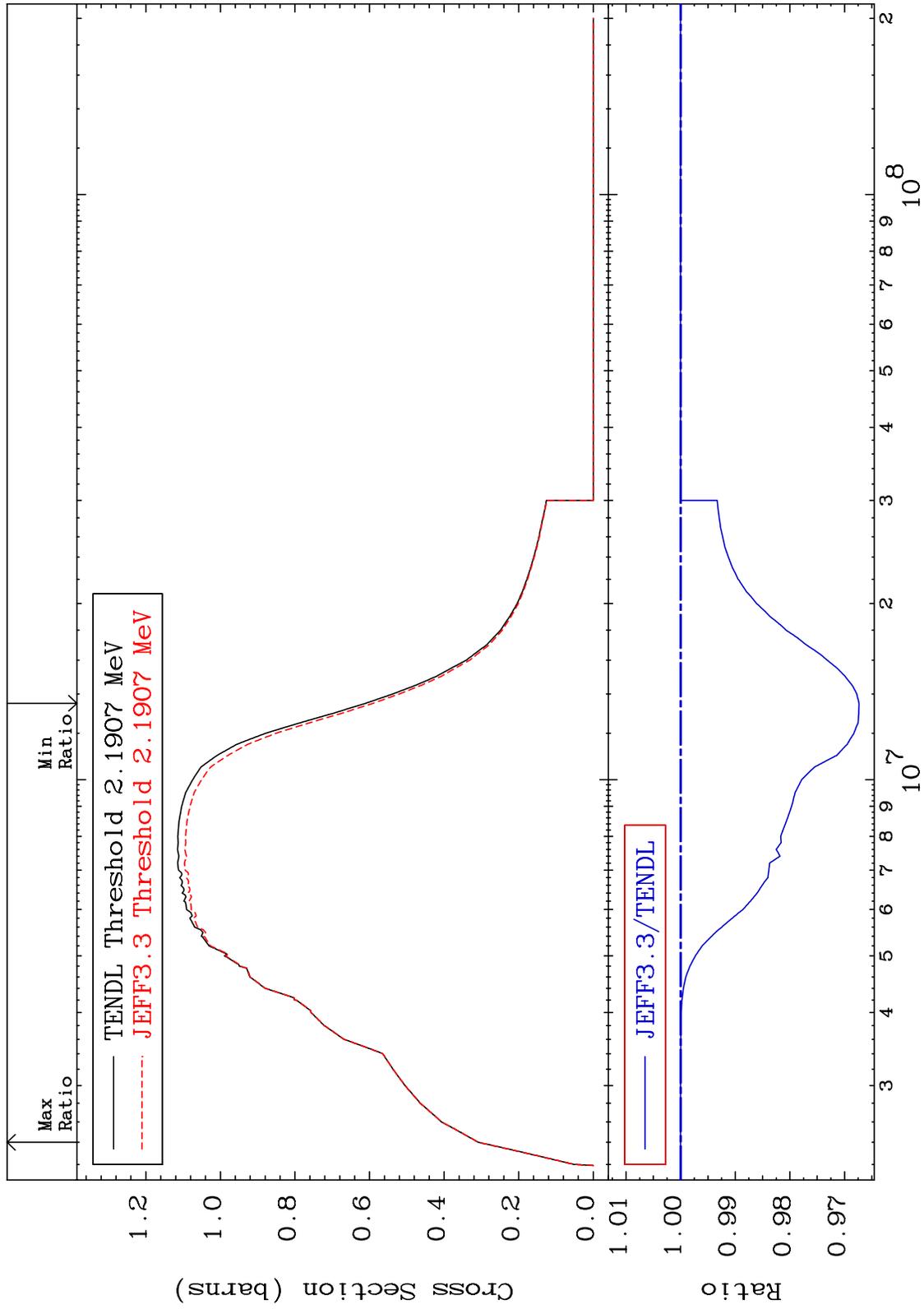
16-S -34  
-99.26 To 432.9 %



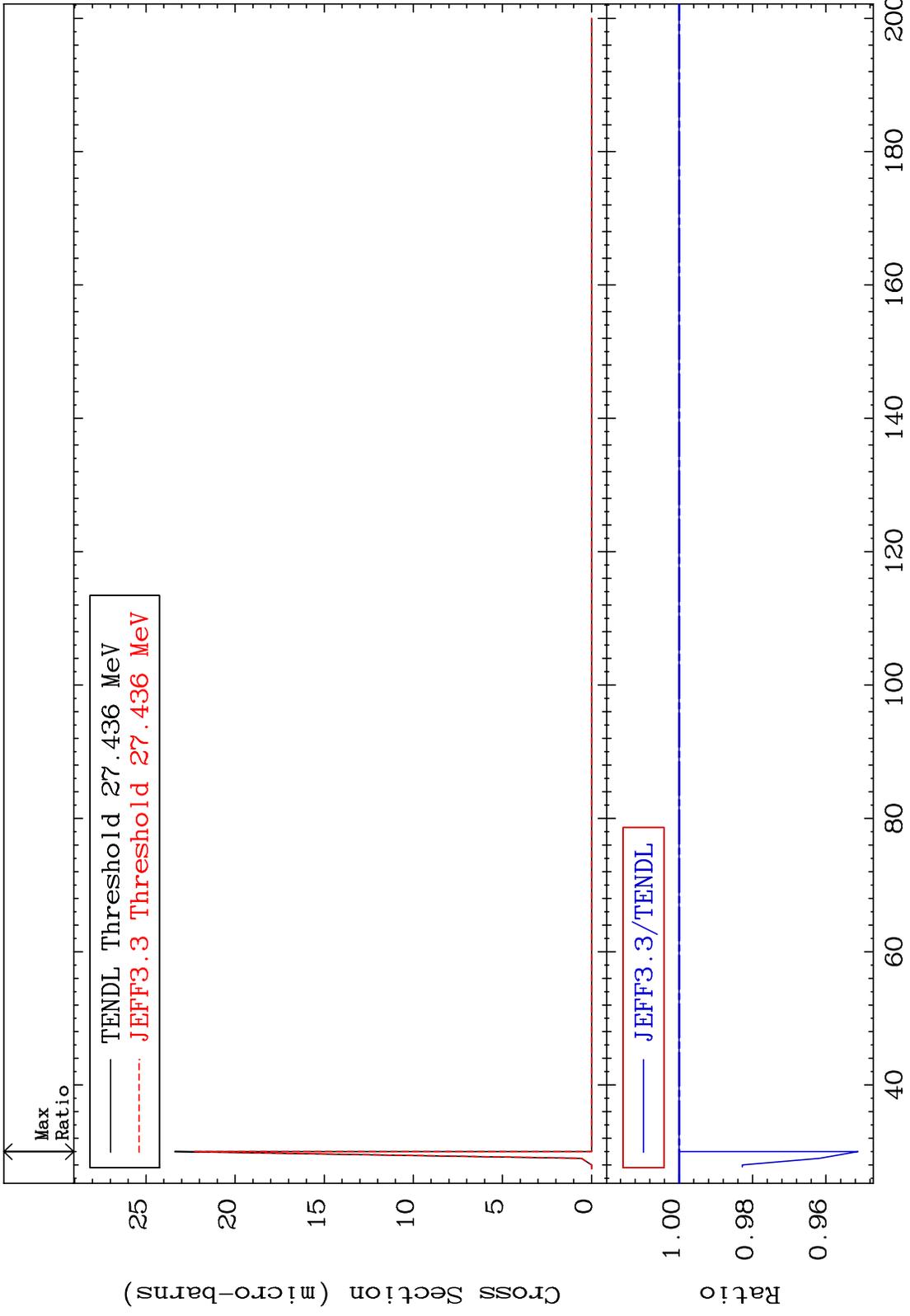
2

Incident Energy (eV)

16-S -34



MAT 1631 (n,2n) d 16-S -34  
Cross Section -4.875 To 0.000 %



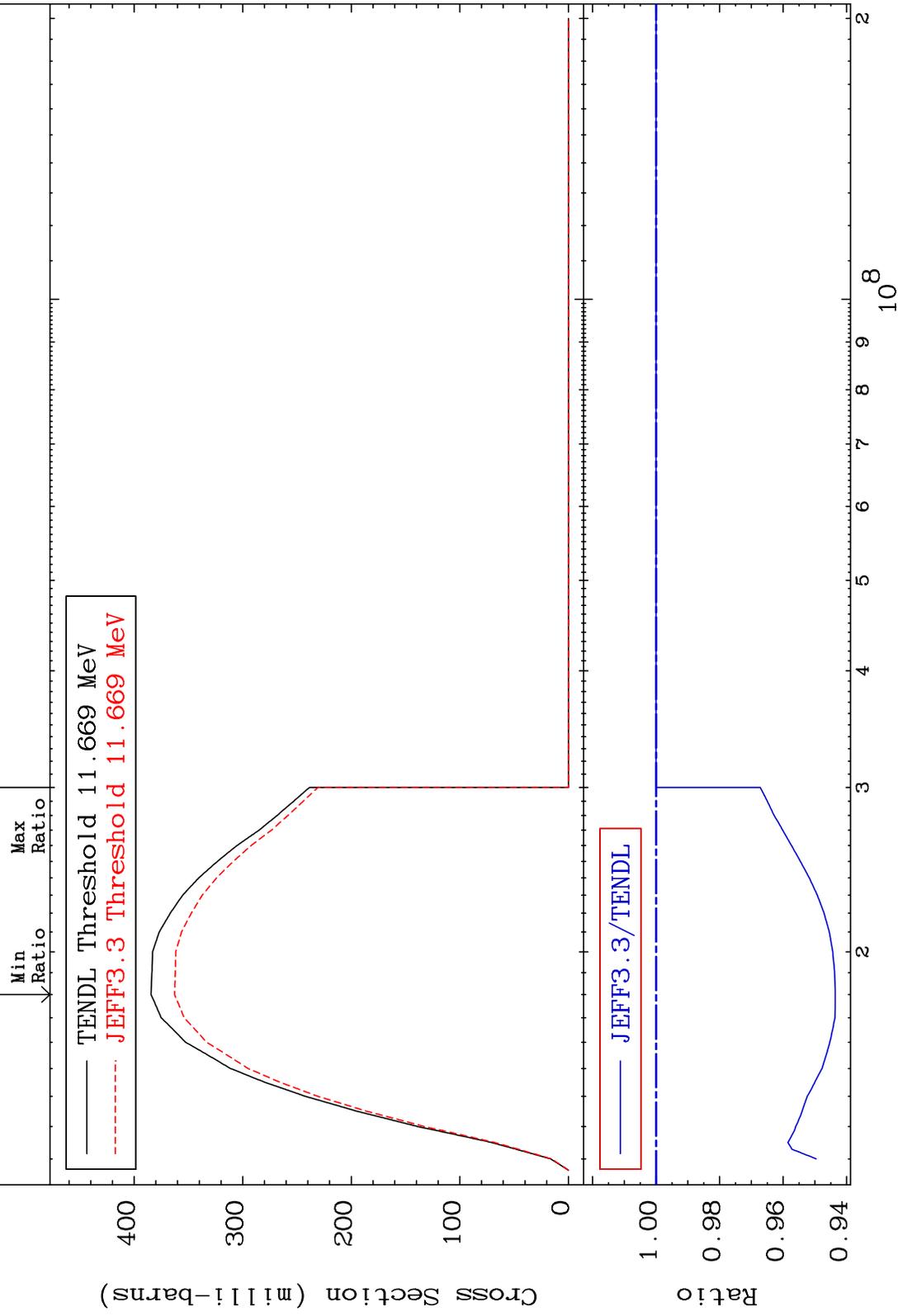
MAT 1631

(n,2n)

16-S -34

Cross Section

Cross Section

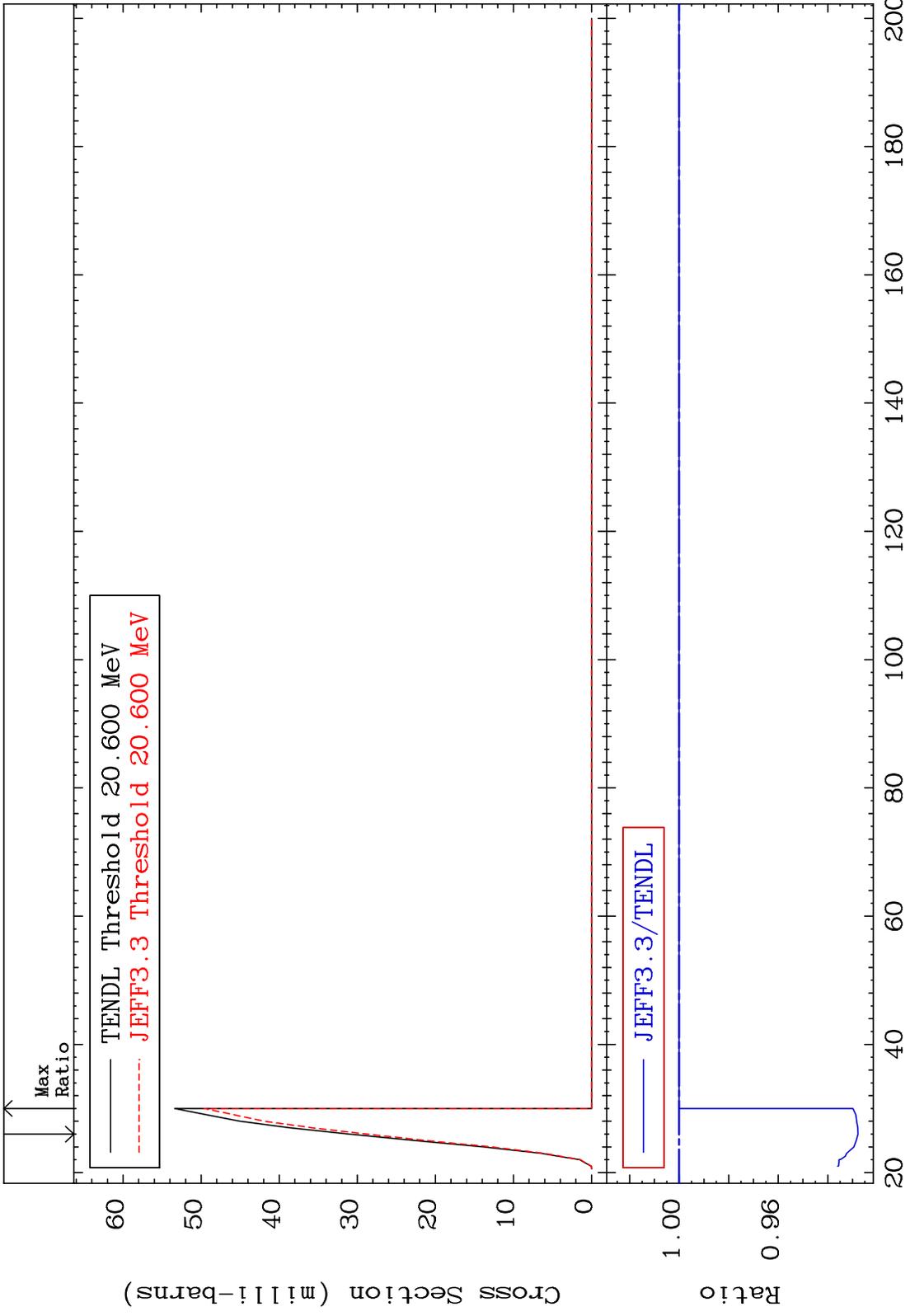


5

Incident Energy (eV)

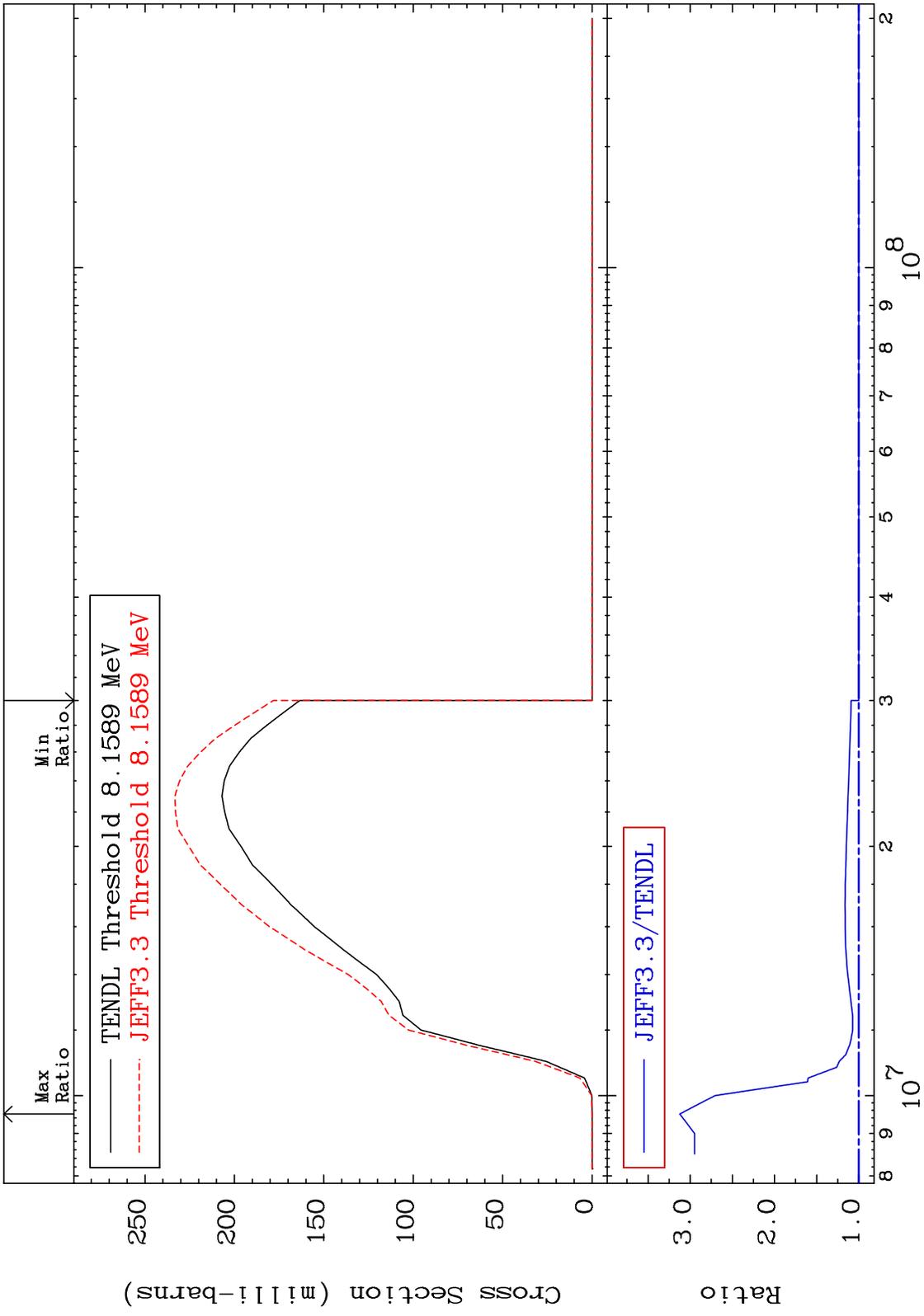
16-S -34

MAT 1631 (n,3n) 16-S -34  
Cross Section -7.225 To 0.000 %



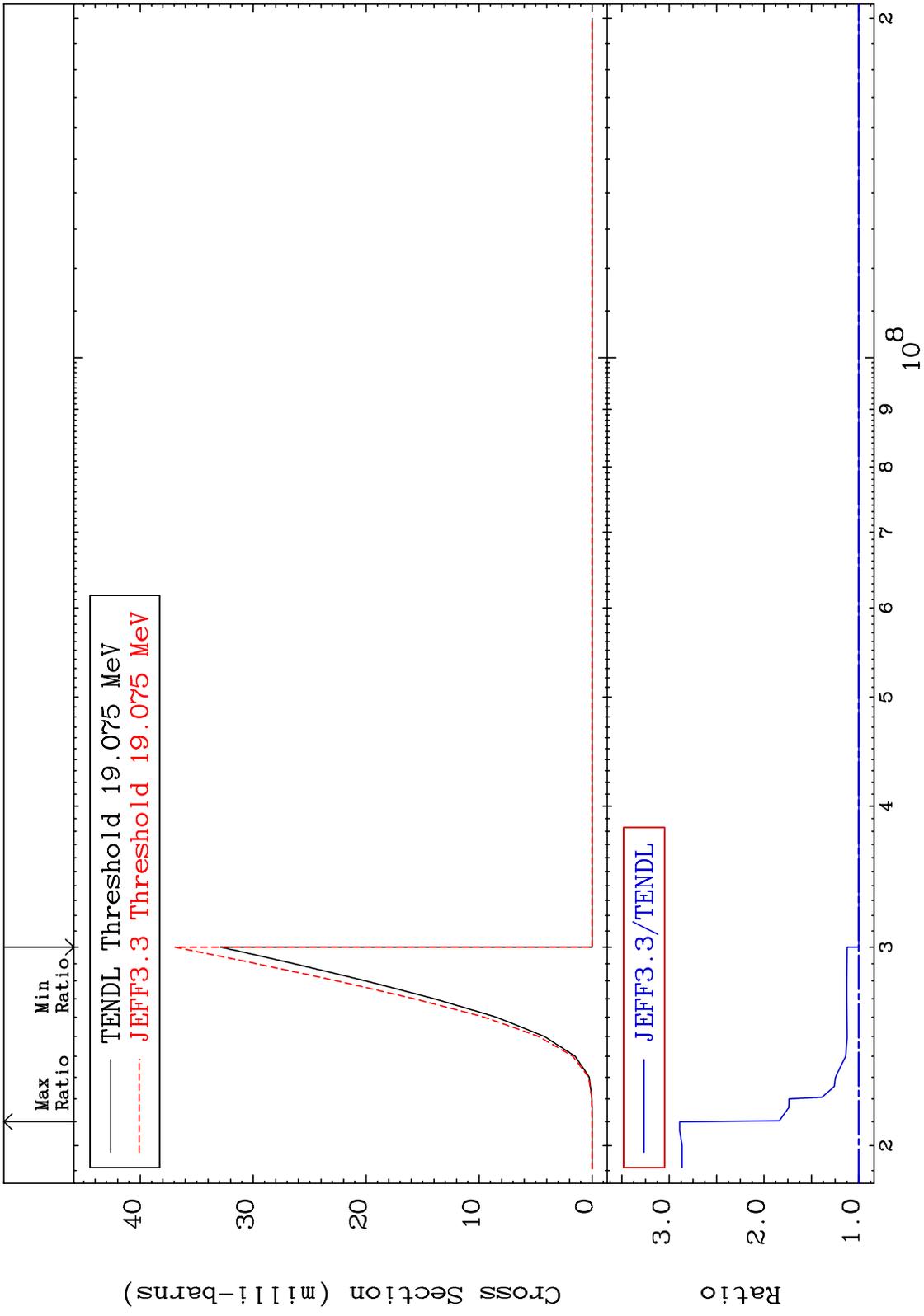
6 Incident Energy (MeV) 16-S -34

MAT 1631  $(n, n') \alpha$  Cross Section 16-S -34 To 212.4 %



16-S -34

MAT 1631 (n,2n)  $\alpha$  16-S -34  
Cross Section 0.000 To 188.9 %



16-S -34

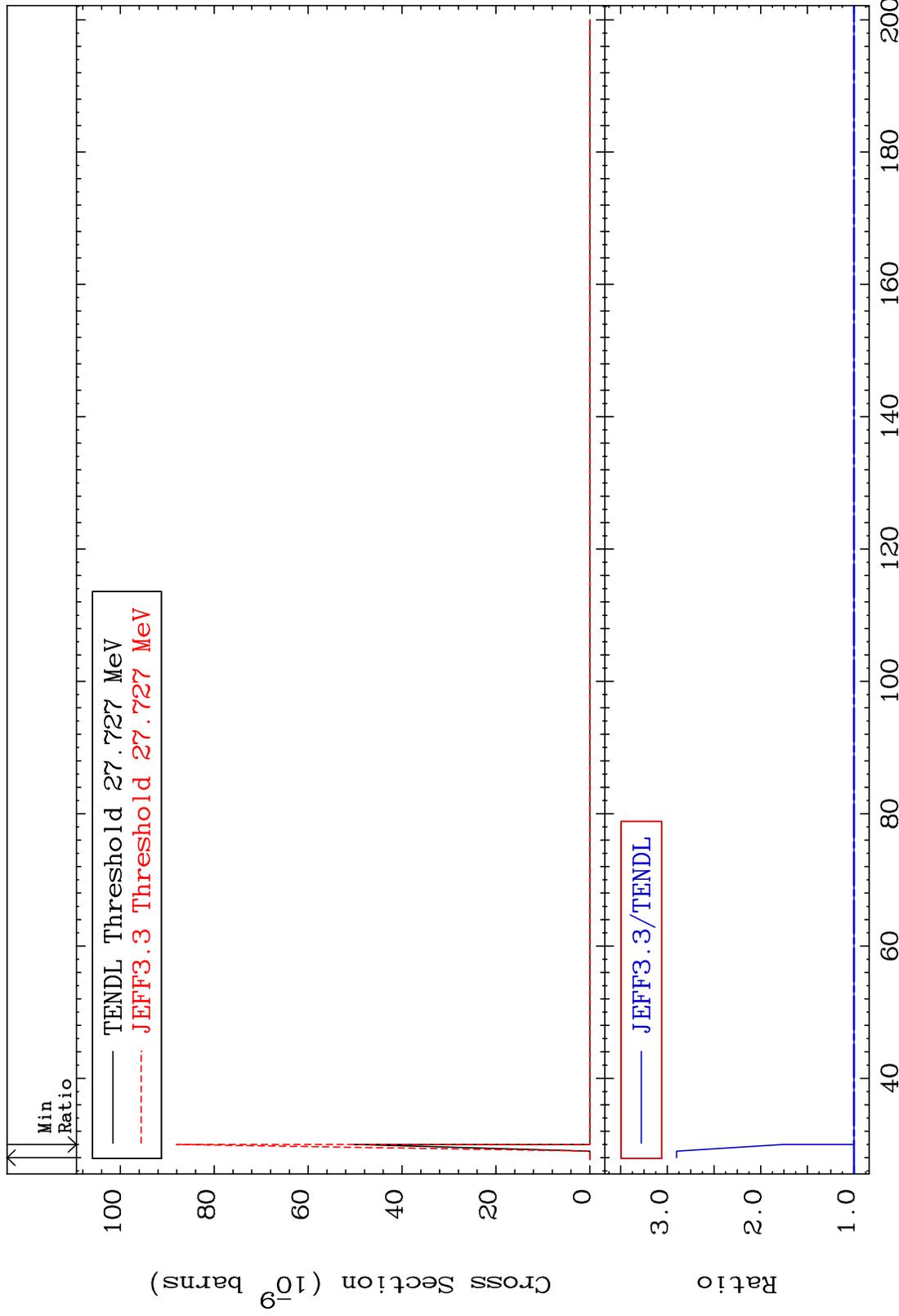
MAT 1631

(n,3n)  $\alpha$

16-S -34

Cross Section

0.000 To 190.0 %



9

Incident Energy (MeV)

16-S -34

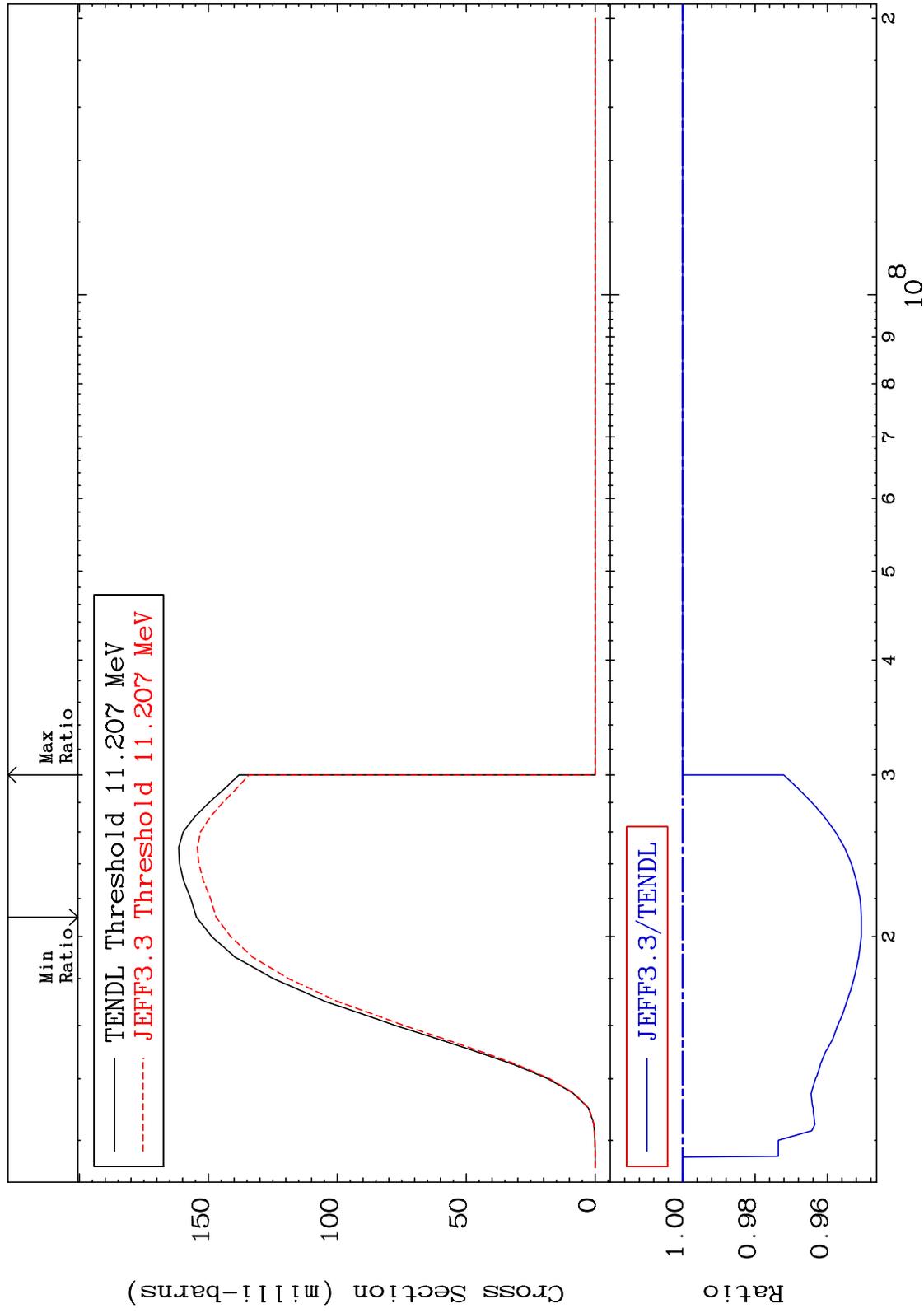
MAT 1631

(n,n') p

16-S -34

Cross Section

-4.938 To 0.000 %

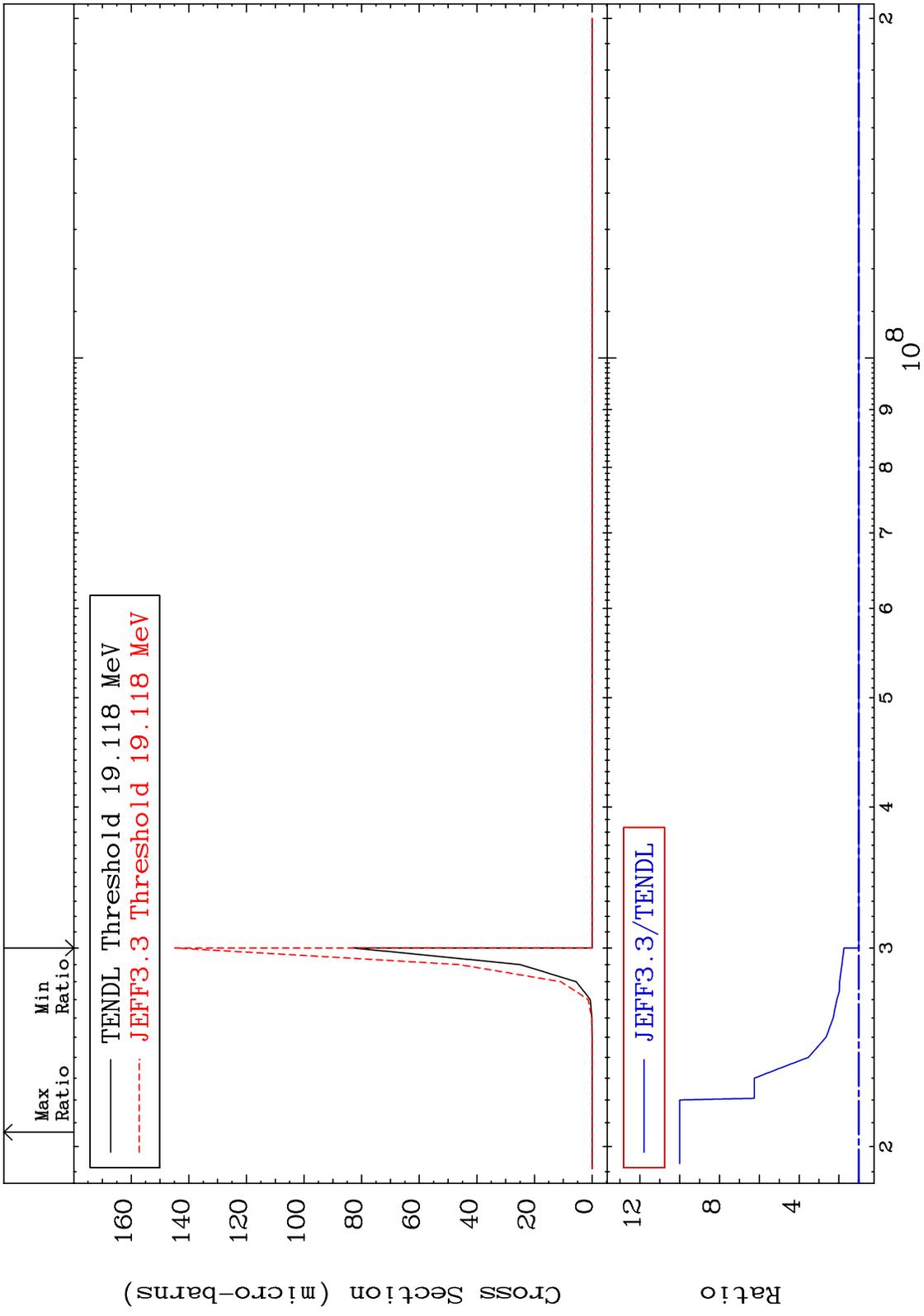


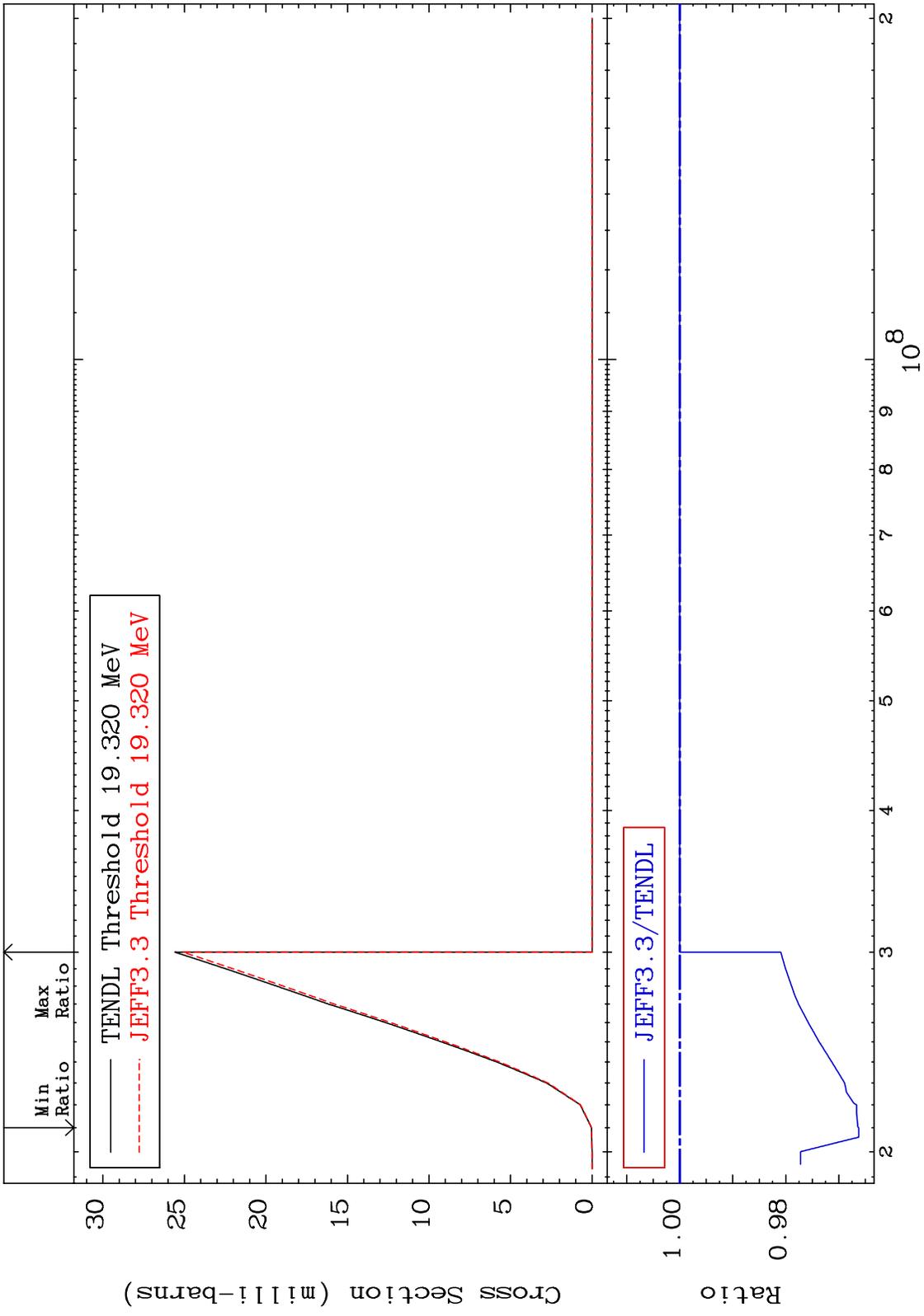
10

Incident Energy (eV)

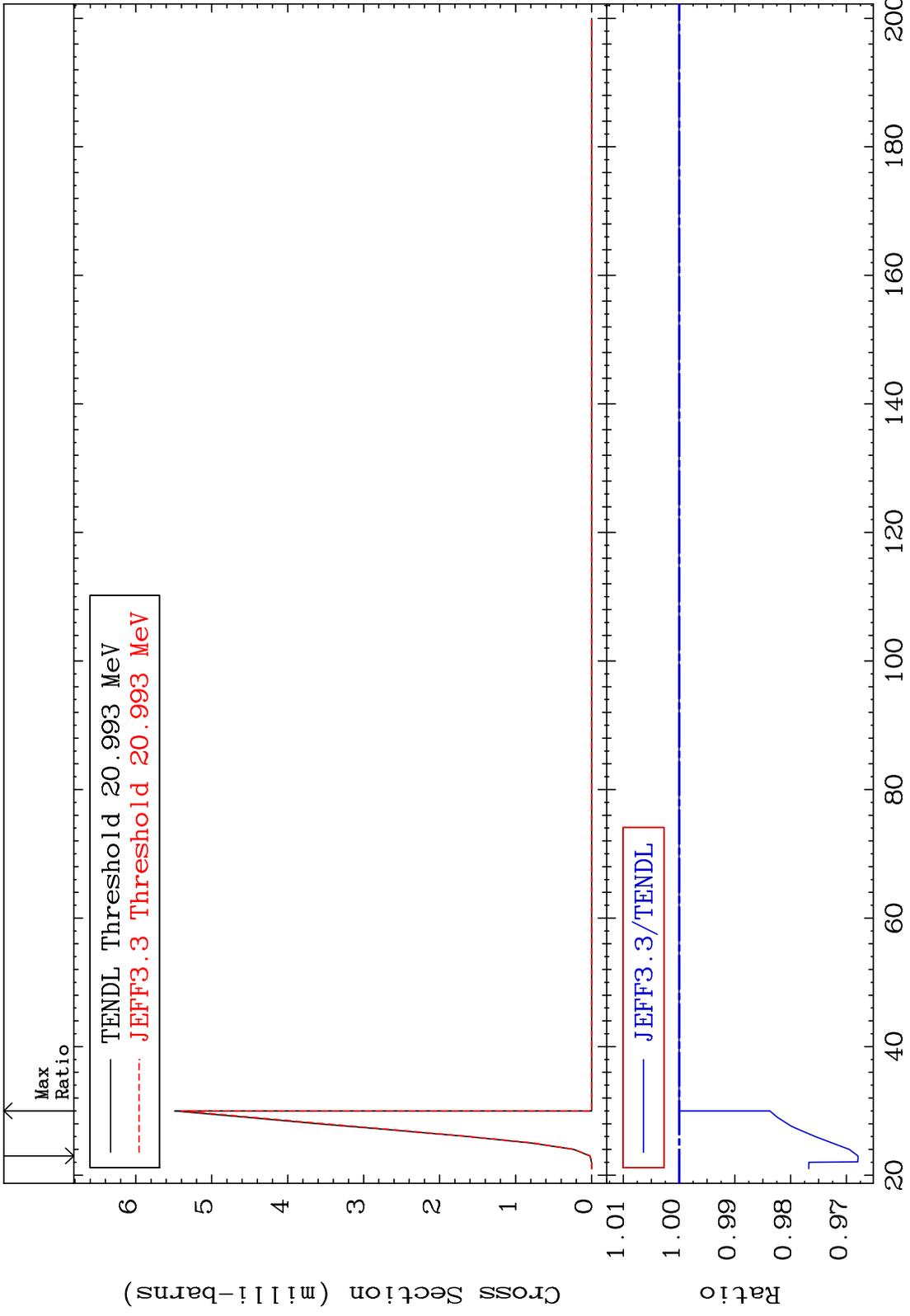
16-S -34

MAT 1631 (n,n') 2α 16-S -34  
 Cross Section 0.000 To 899.7 %

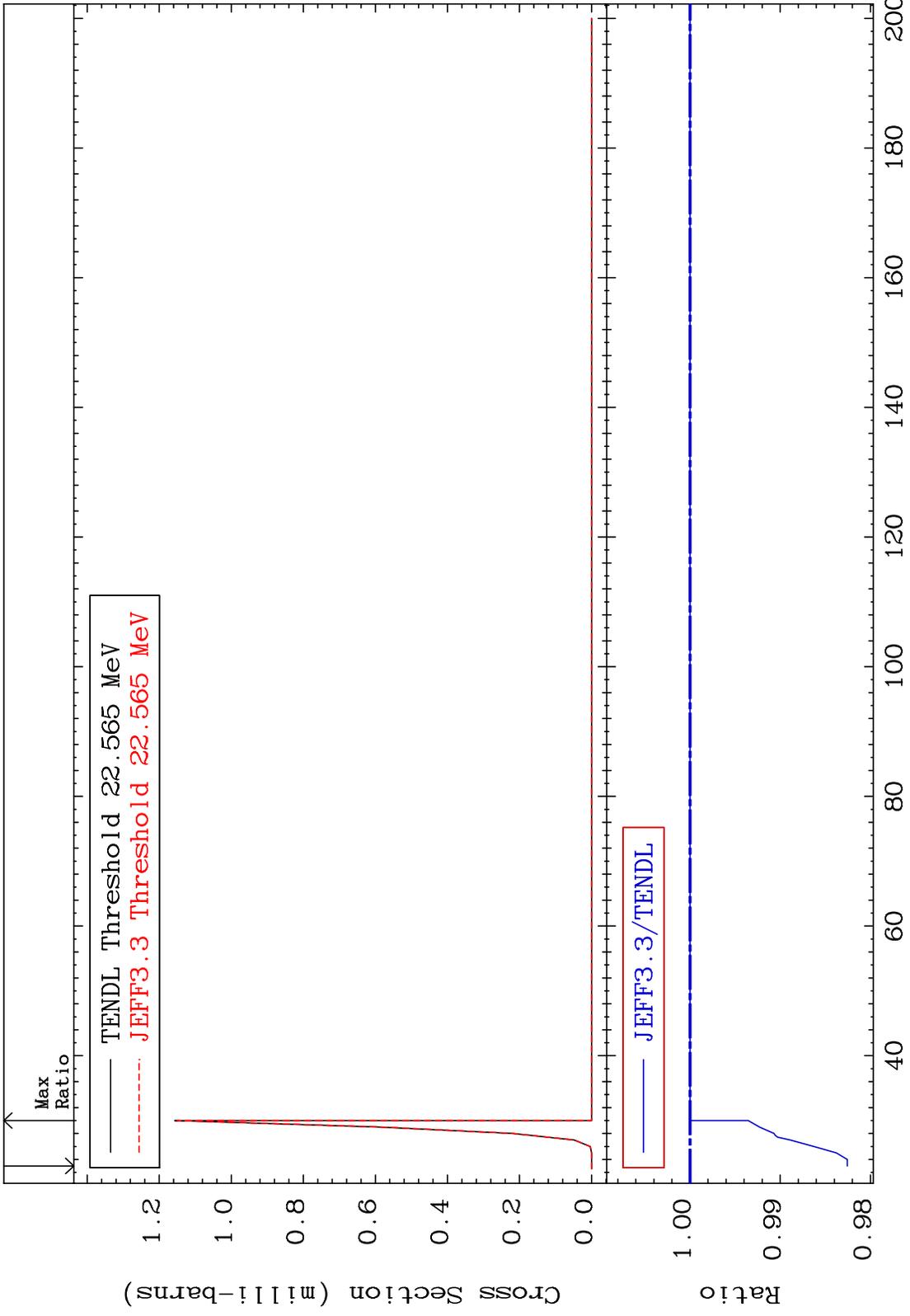




MAT 1631 (n,n') t 16-S -34  
 Cross Section -3.208 To 0.000 %



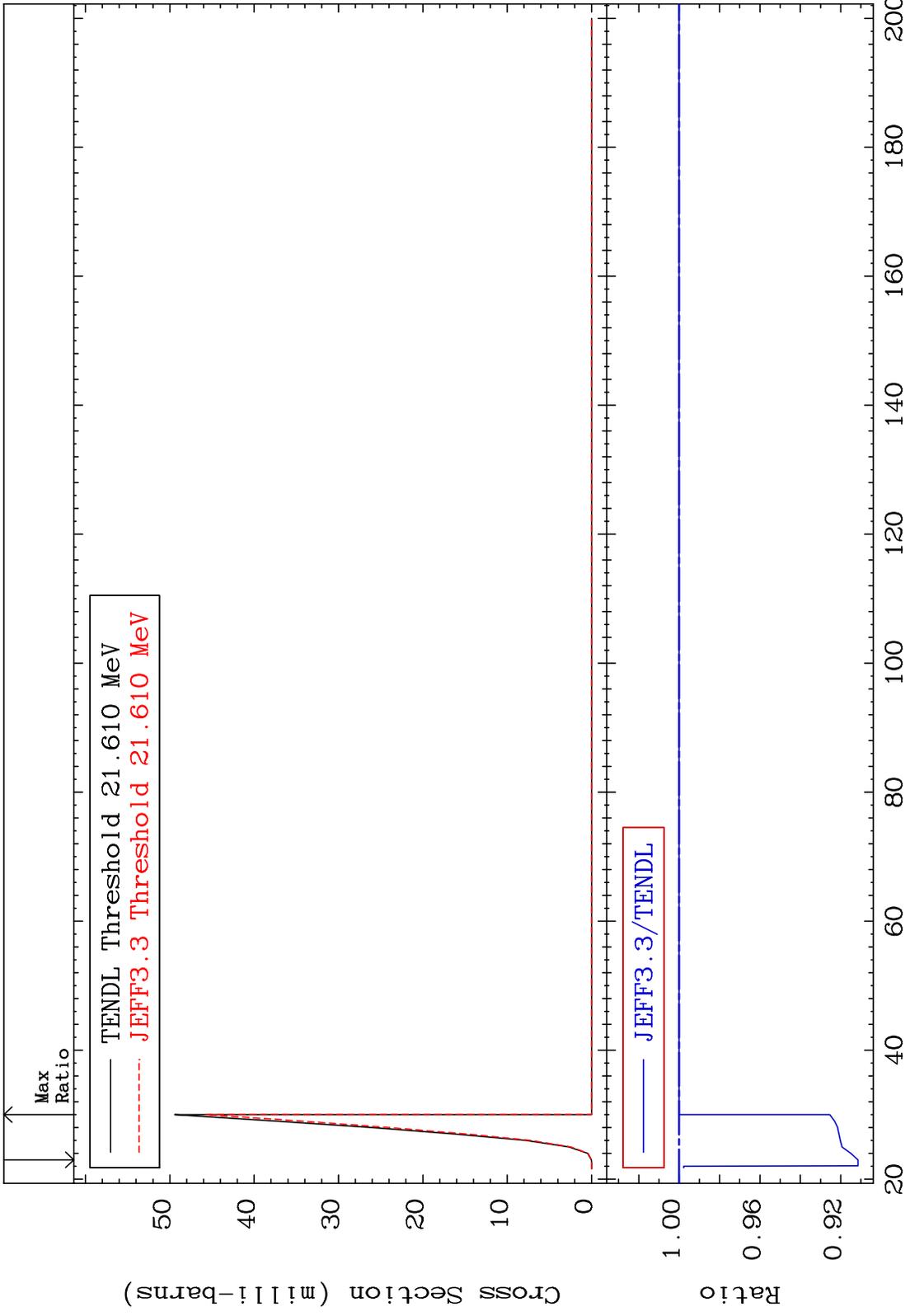
MAT 1631 (n, n') He-3 16-S -34  
Cross Section -1.742 To 0.000 %



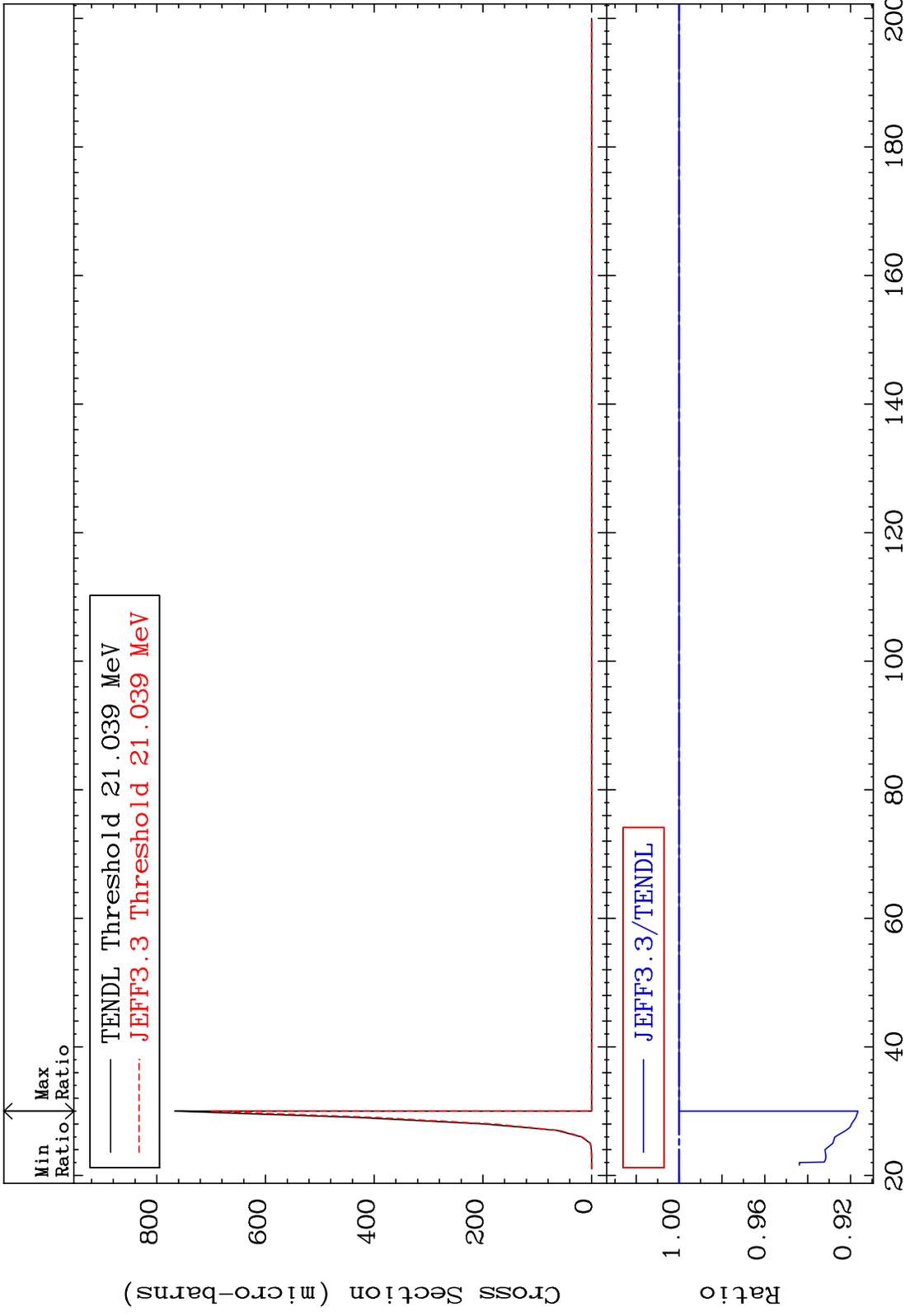
16-S -34

Incident Energy (MeV)

MAT 1631 (n,2n) p 16-S -34  
 Cross Section -8.859 To 0.000 %

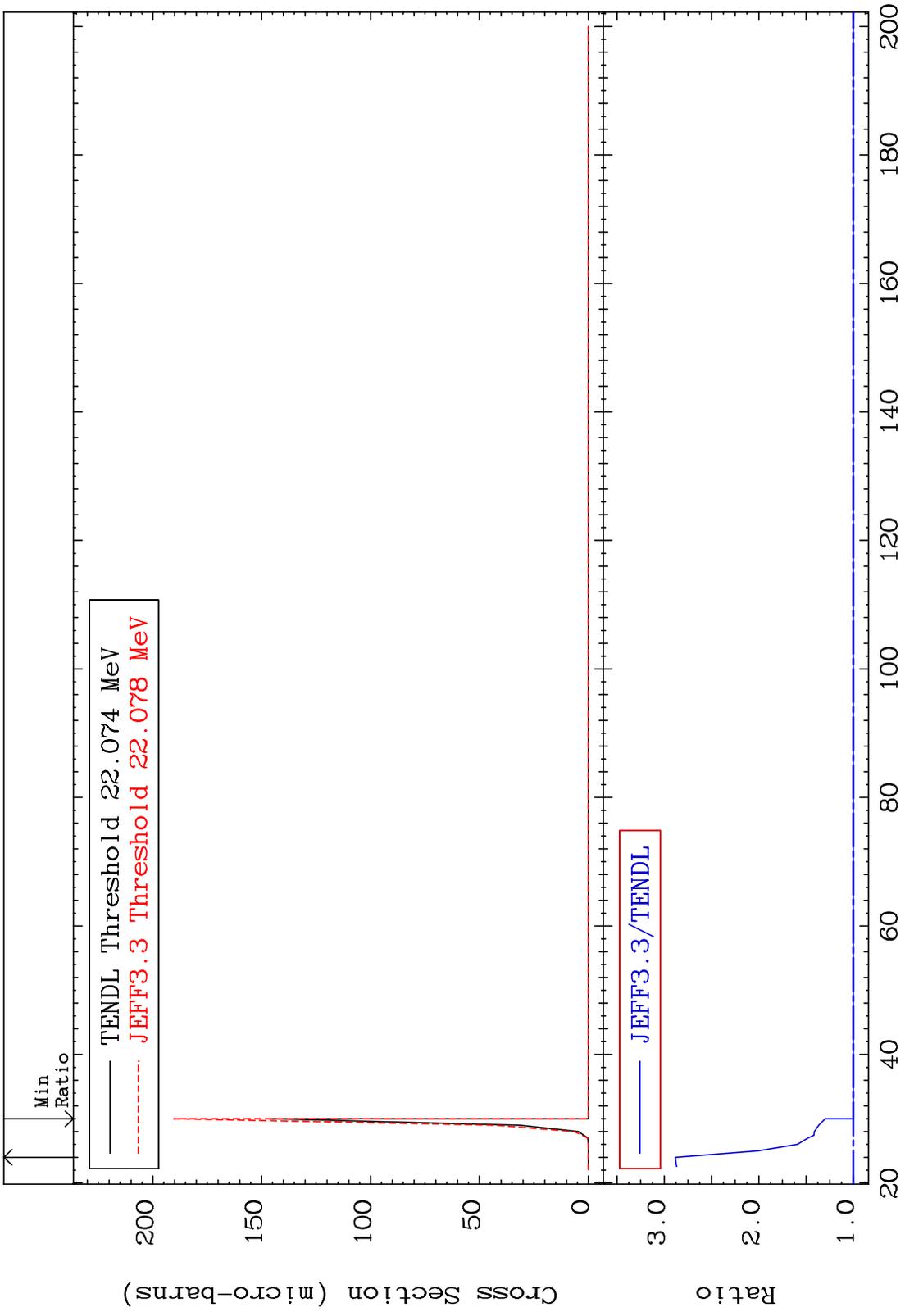


MAT 1631 (n,2n) p 16-S -34  
Cross Section -8.353 To 0.000 %



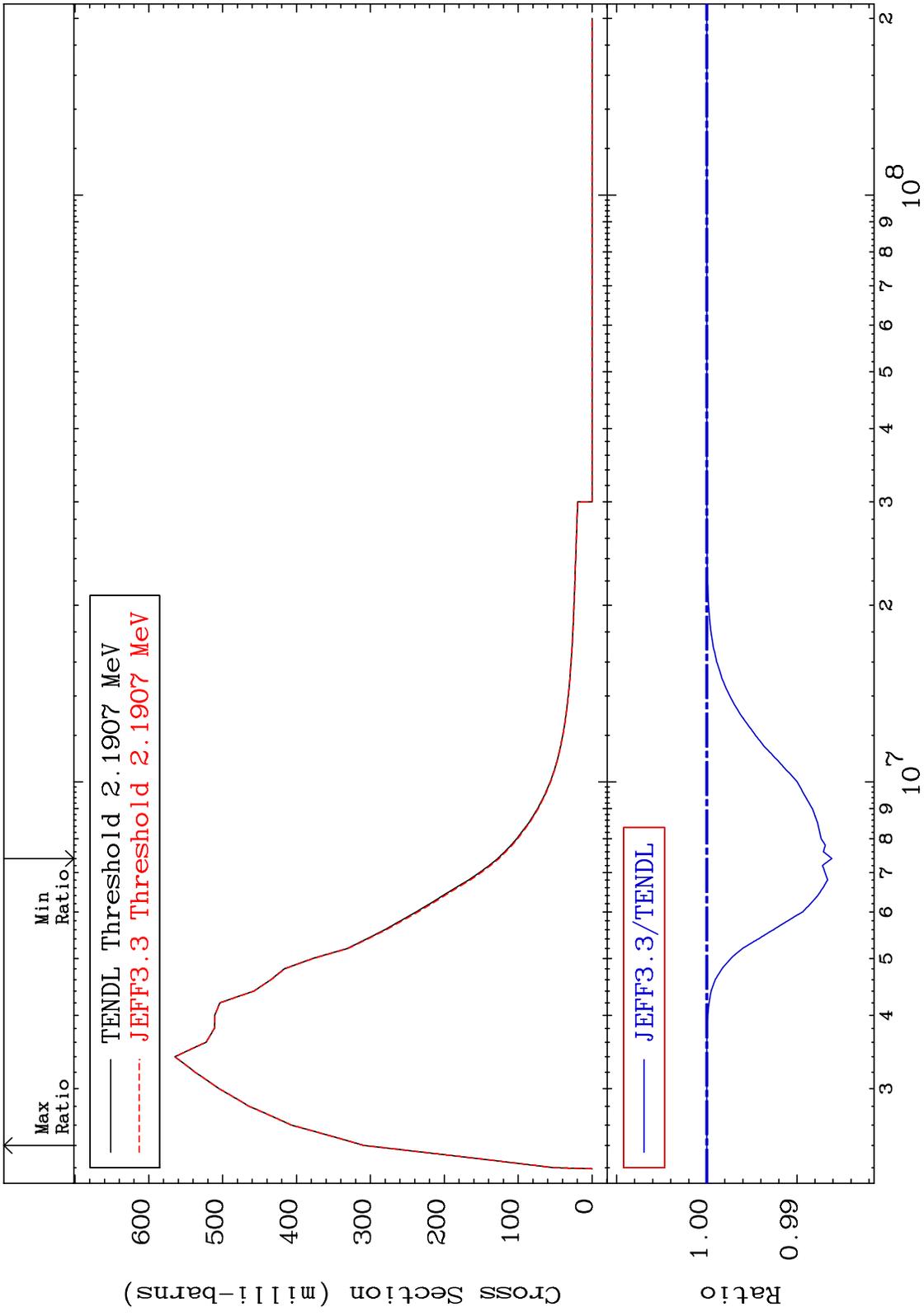
16 16-S -34

MAT 1631 (n,n') p  $\alpha$  16-S -34  
Cross Section 0.000 To 188.2 %



16-S -34

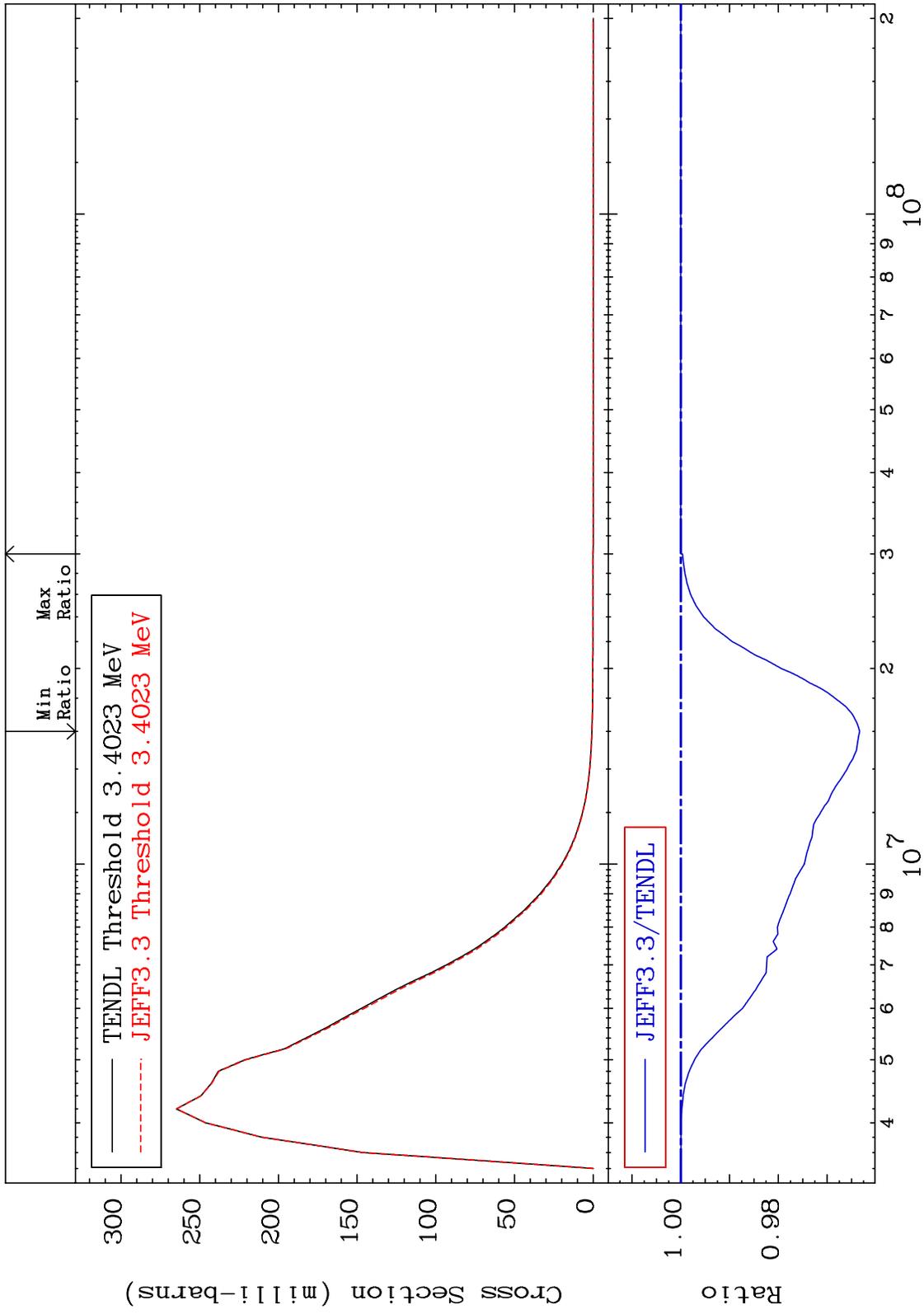
MAT 1631 MT= 51 (n,n') Level Cross Section 16-S -34  
 -1.386 To 0.000 %



MAT 1631

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

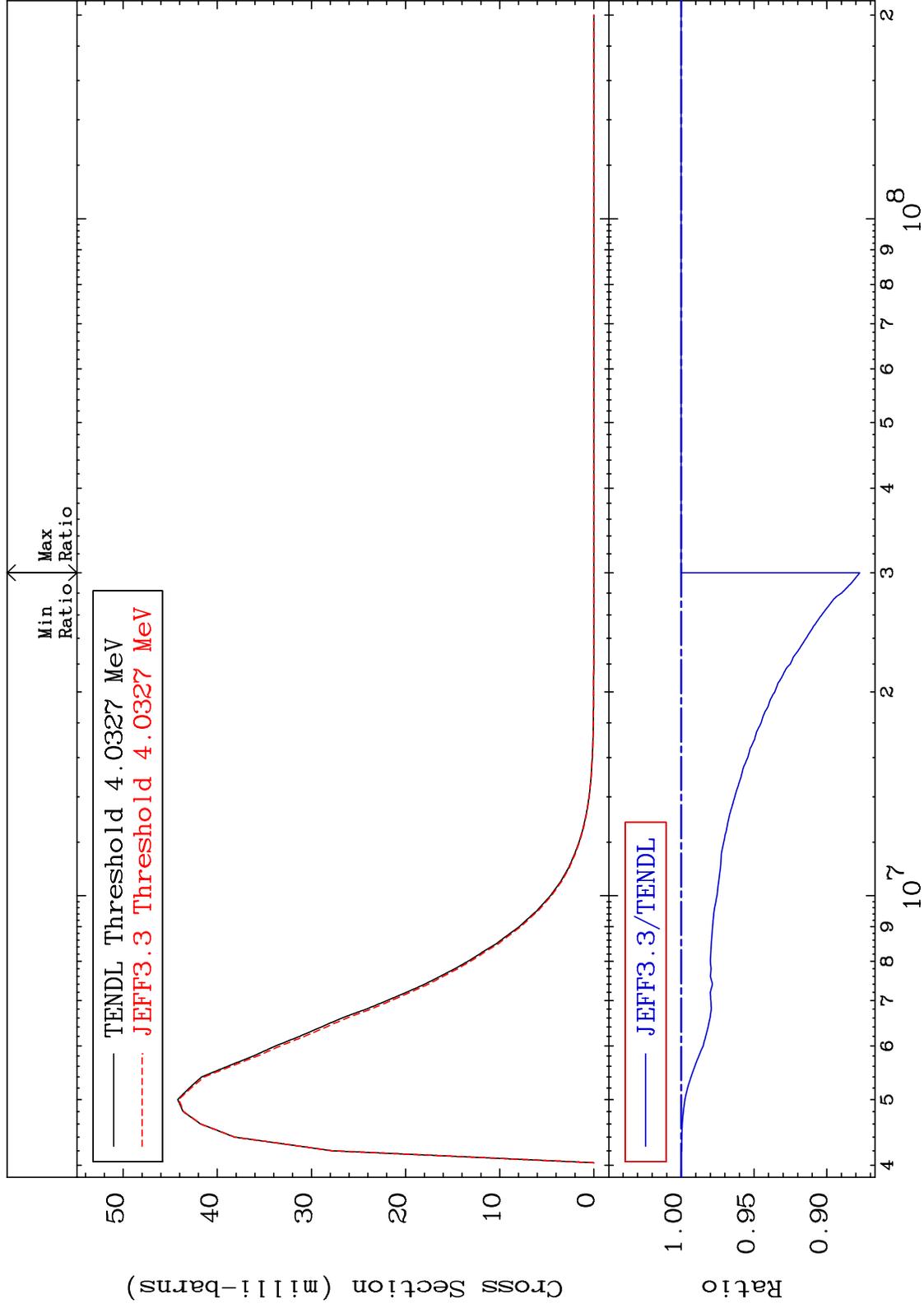
16-S -34  
-3.669 To 0.000 %



MAT 1631

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

16-S -34  
-12.27 To 0.000 %

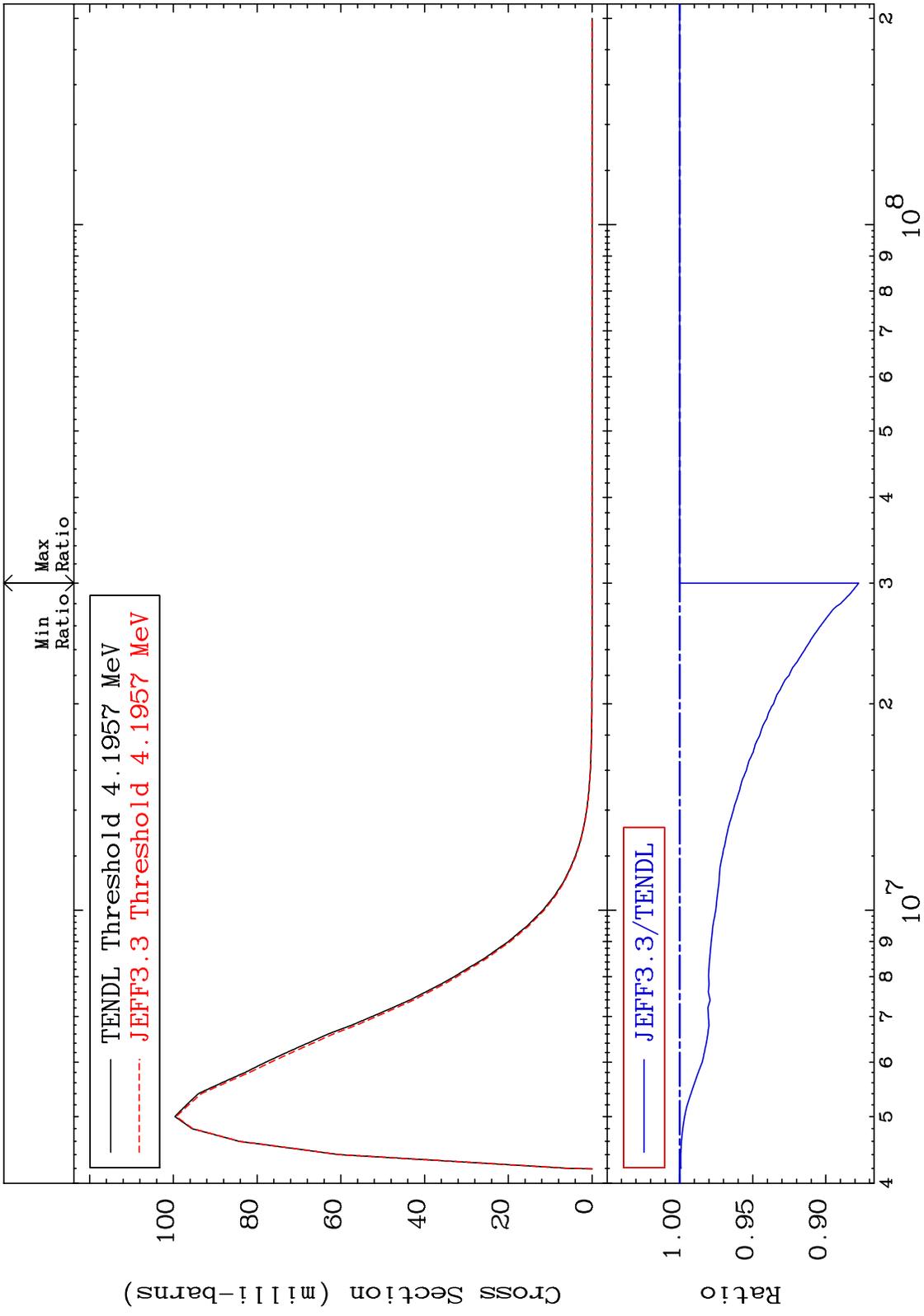


20

Incident Energy (eV)

16-S -34

MAT 1631 MT= 54 (n,n') Level Cross Section -12.26 To 0.000 % 16-S -34

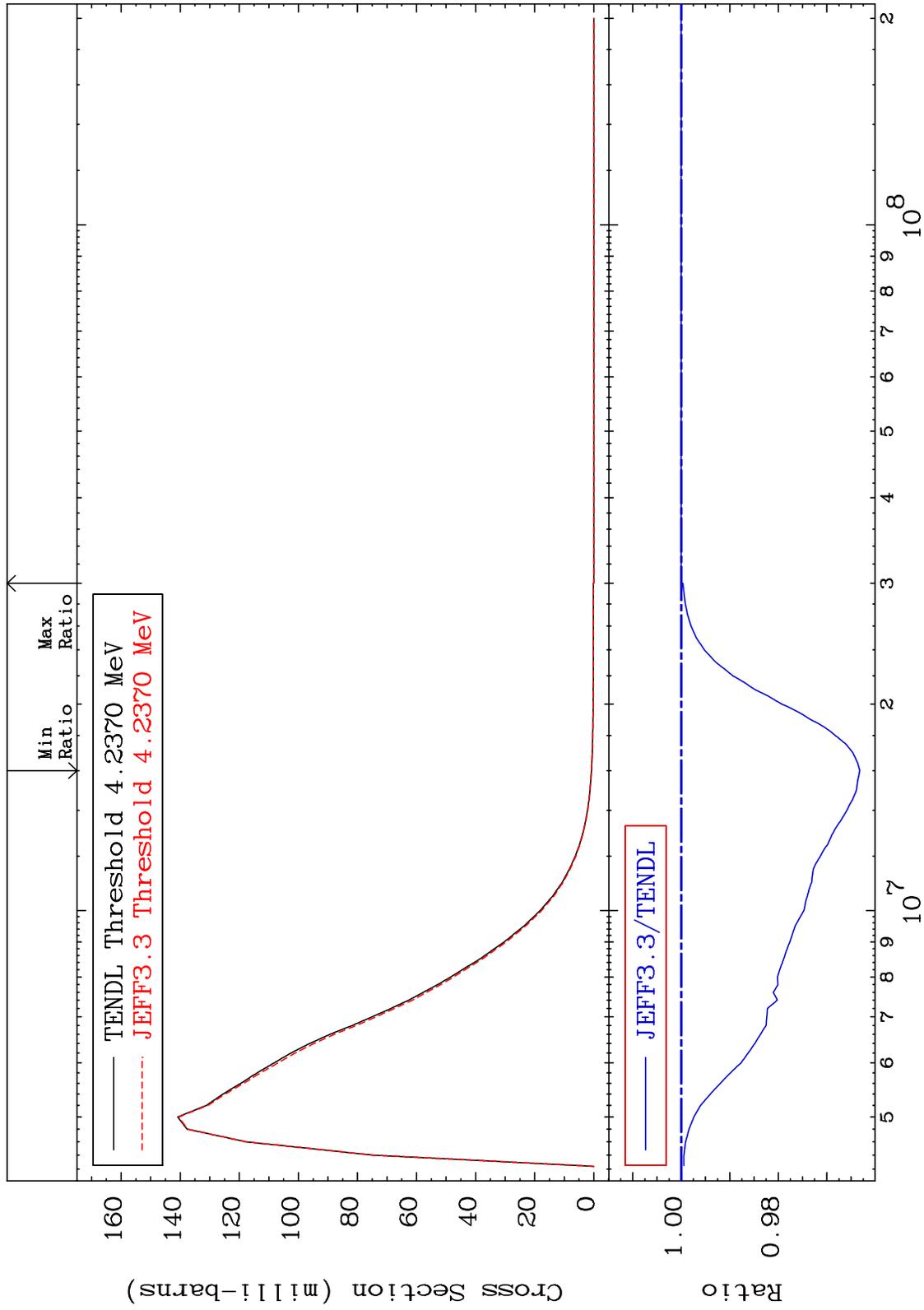


21 16-S -34

MAT 1631

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

16-S -34  
-3.680 To 0.000 %

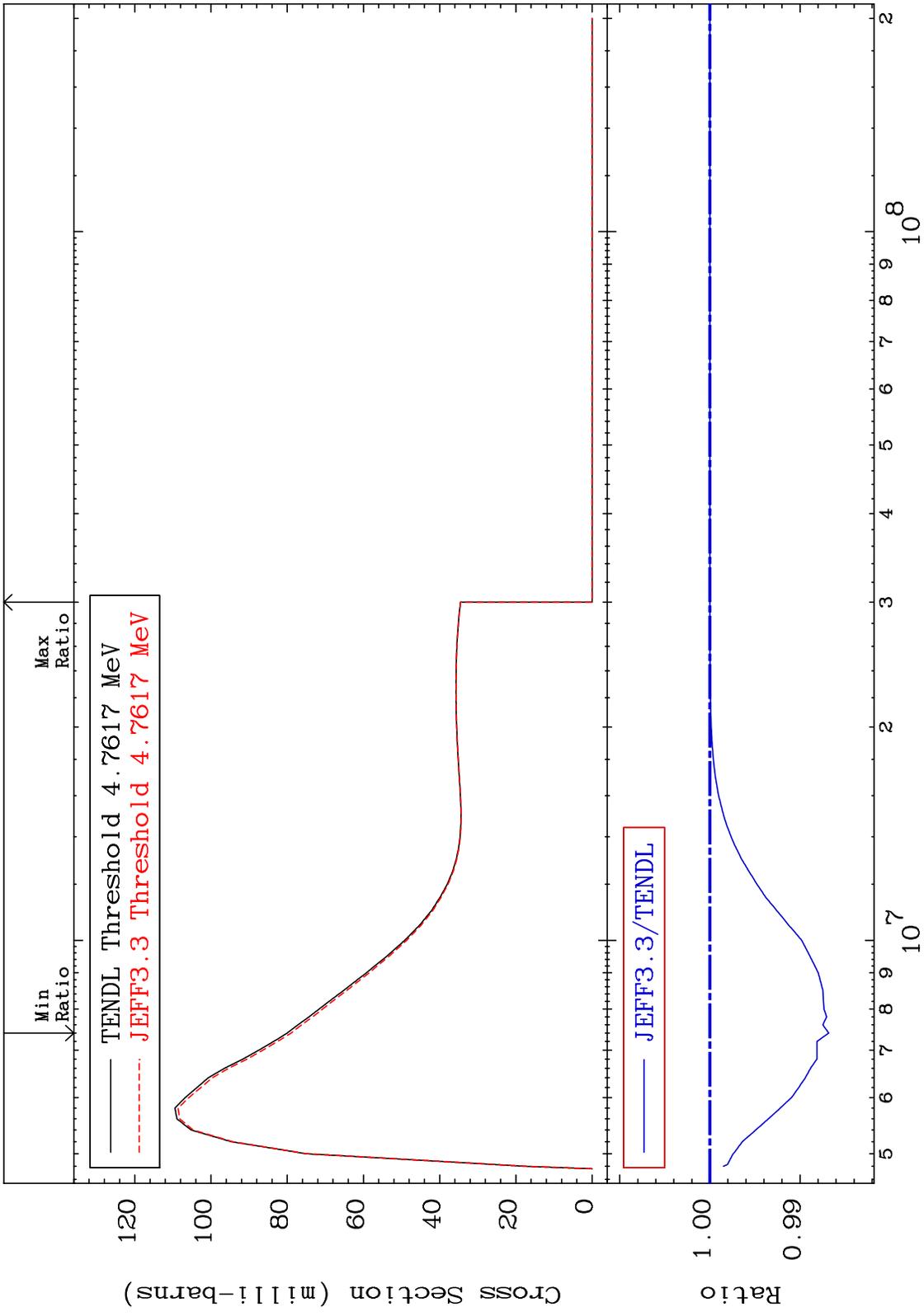


22

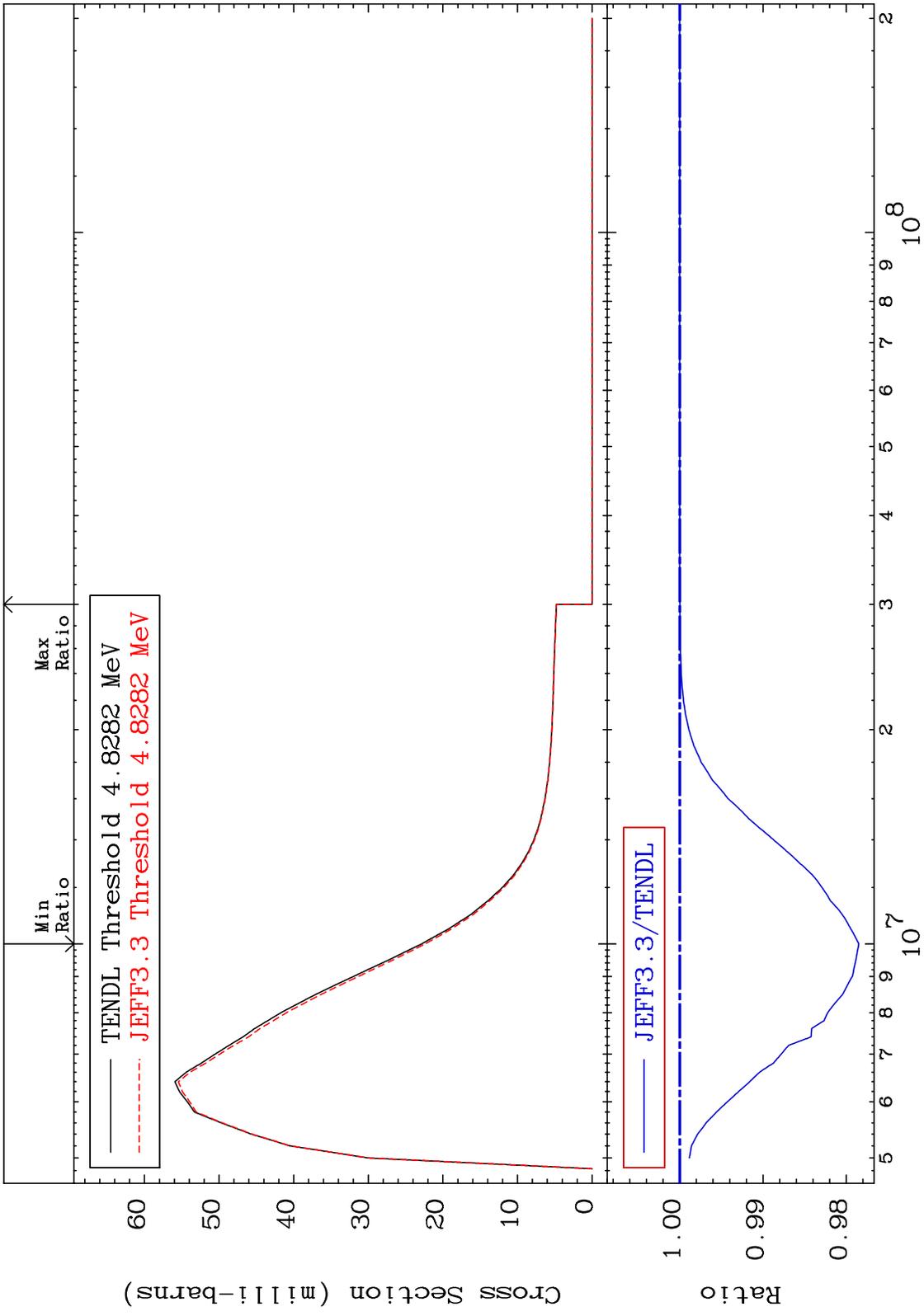
16-S -34

16-S -34

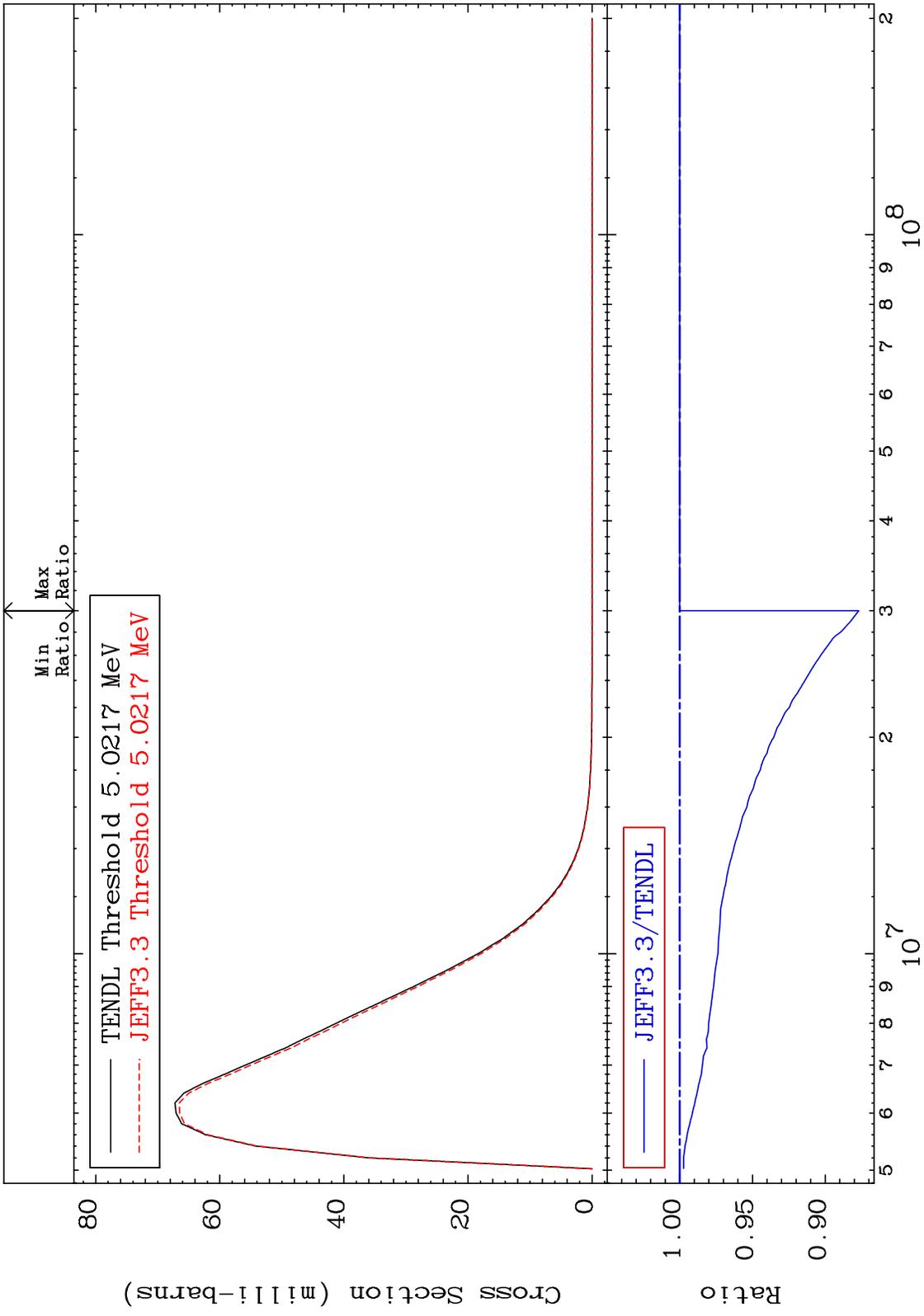
MAT 1631 MT= 56 (n,n') Level Cross Section -1.318 To 0.000 % 16-S -34



MAT 1631 MT= 57 (n,n') Level Cross Section 16-S -34  
 -2.150 To 0.000 %



MAT 1631 MT= 58 (n,n') Level Cross Section -12.31 To 0.000 % 16-S -34

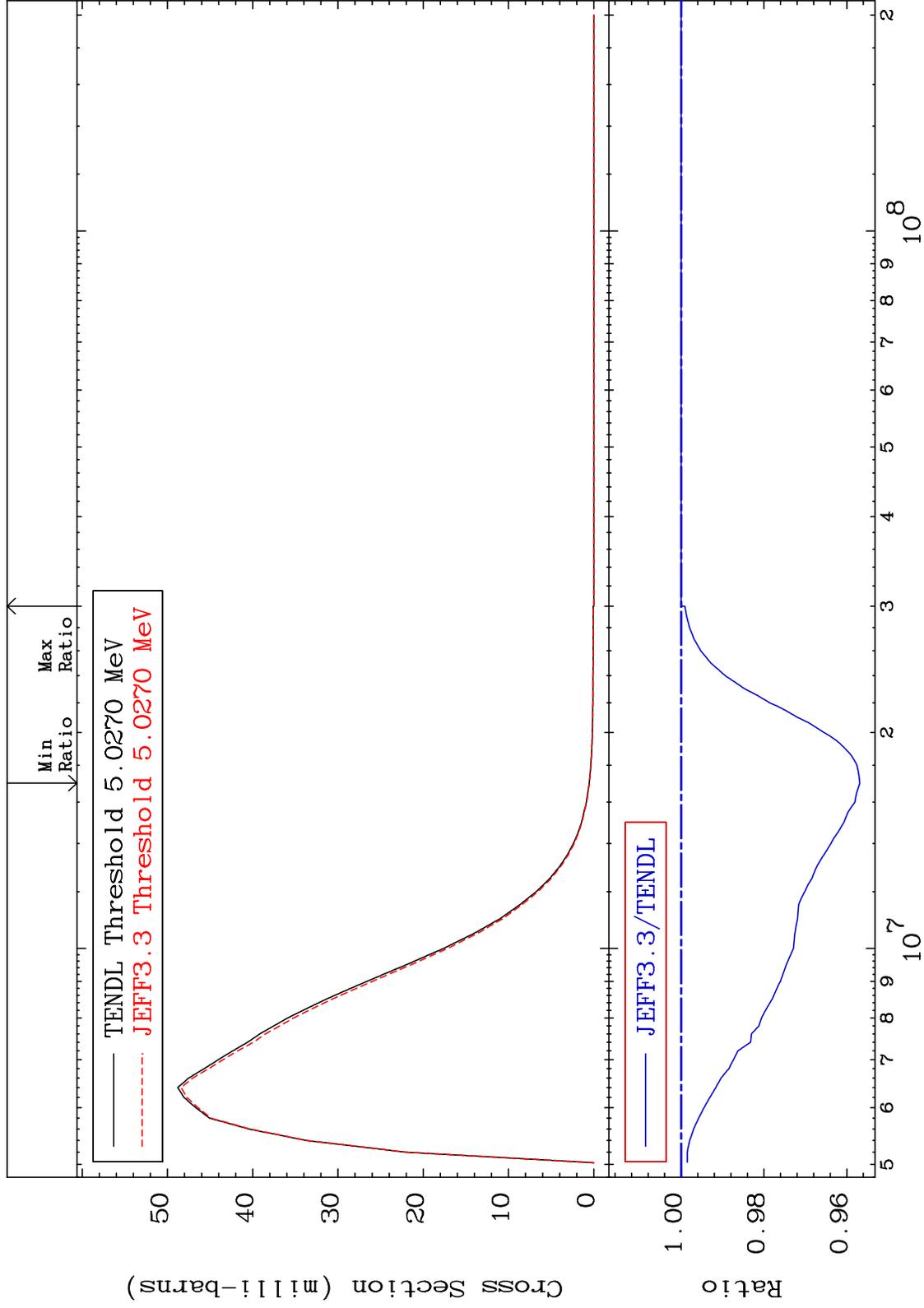


25 Incident Energy (eV) 16-S -34

MAT 1631

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

16-S -34  
-4.314 To 0.000 %



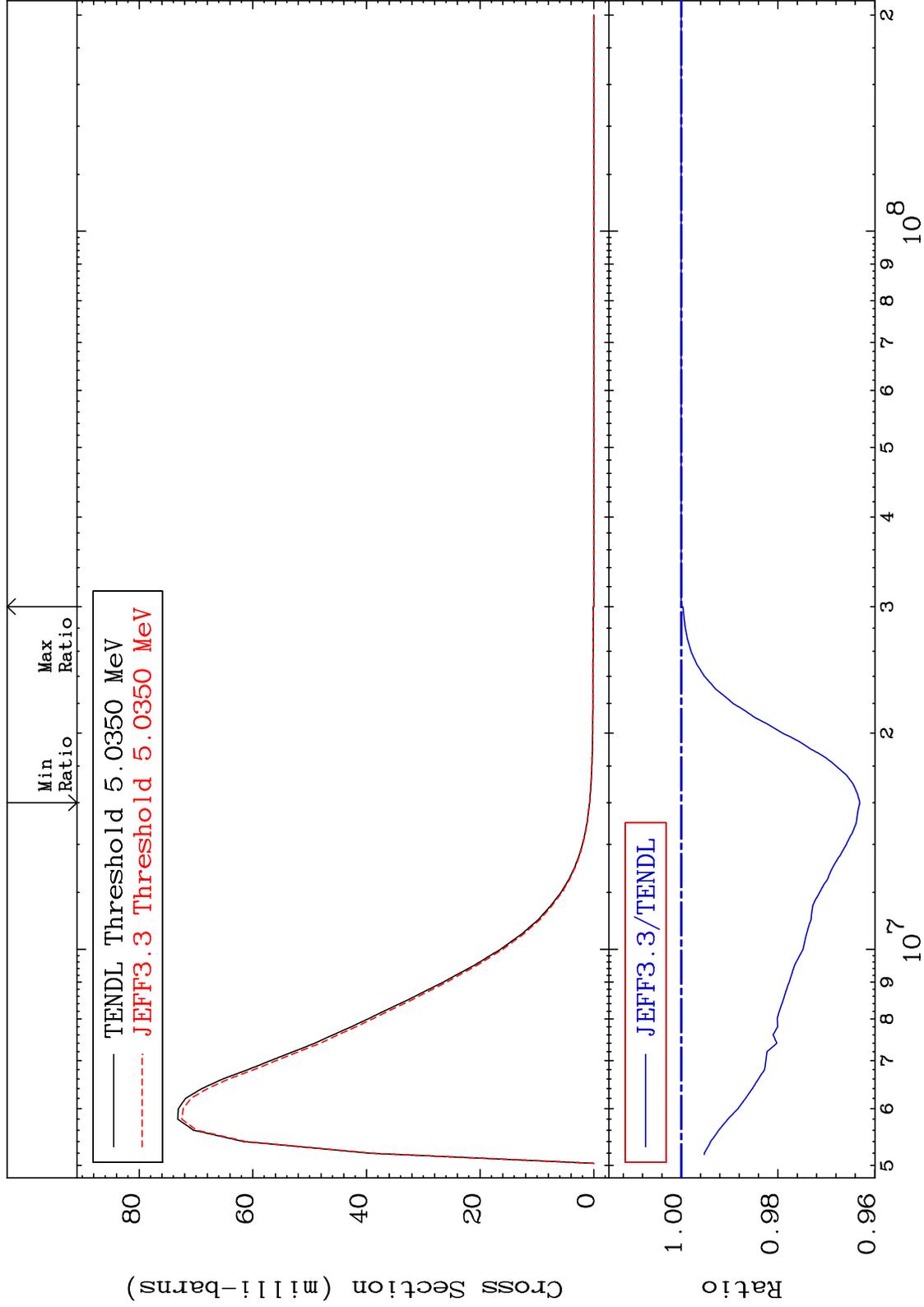
26

16-S -34

MAT 1631

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

16-S -34  
-3.695 To 0.000 %

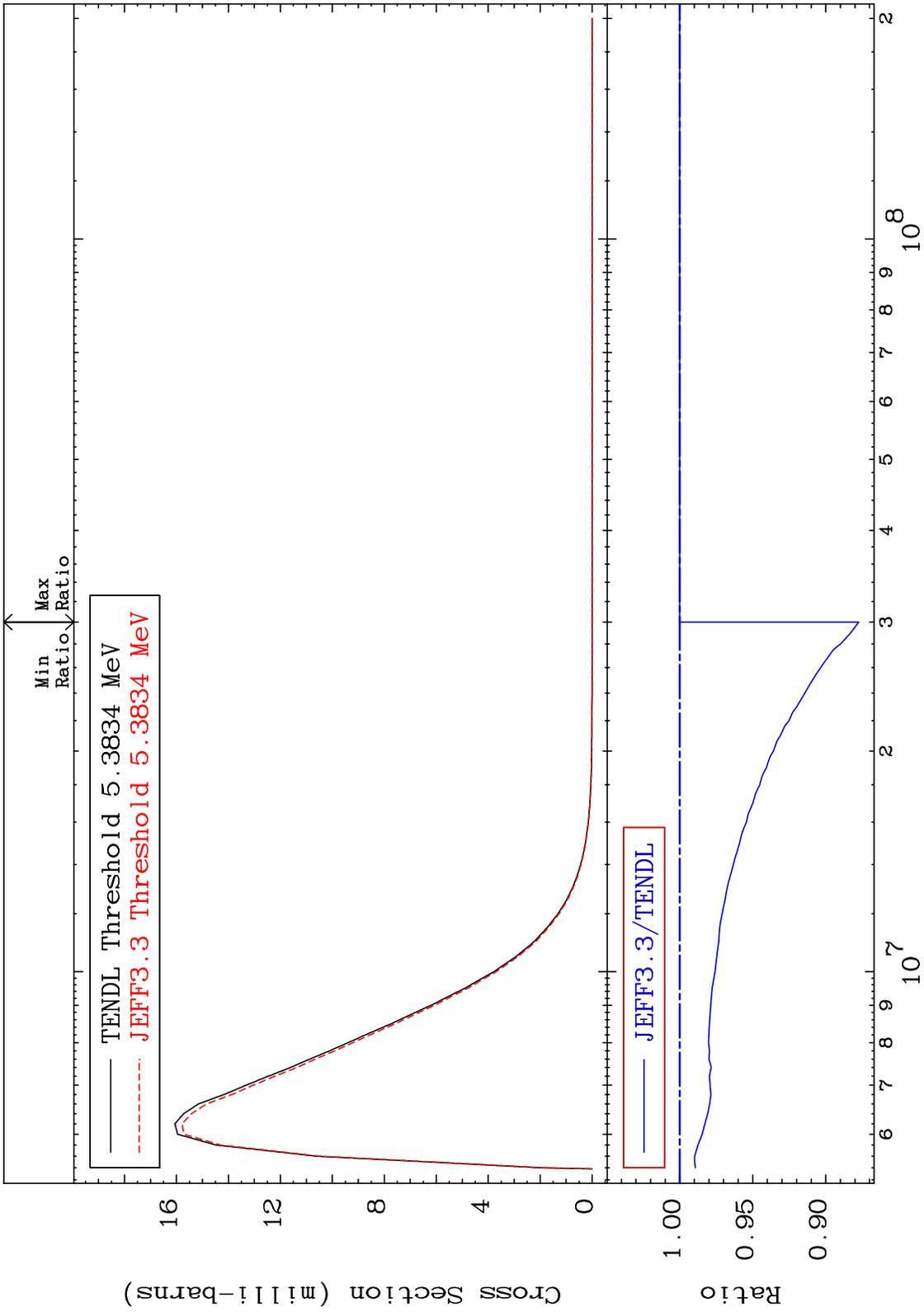


27

Incident Energy (eV)

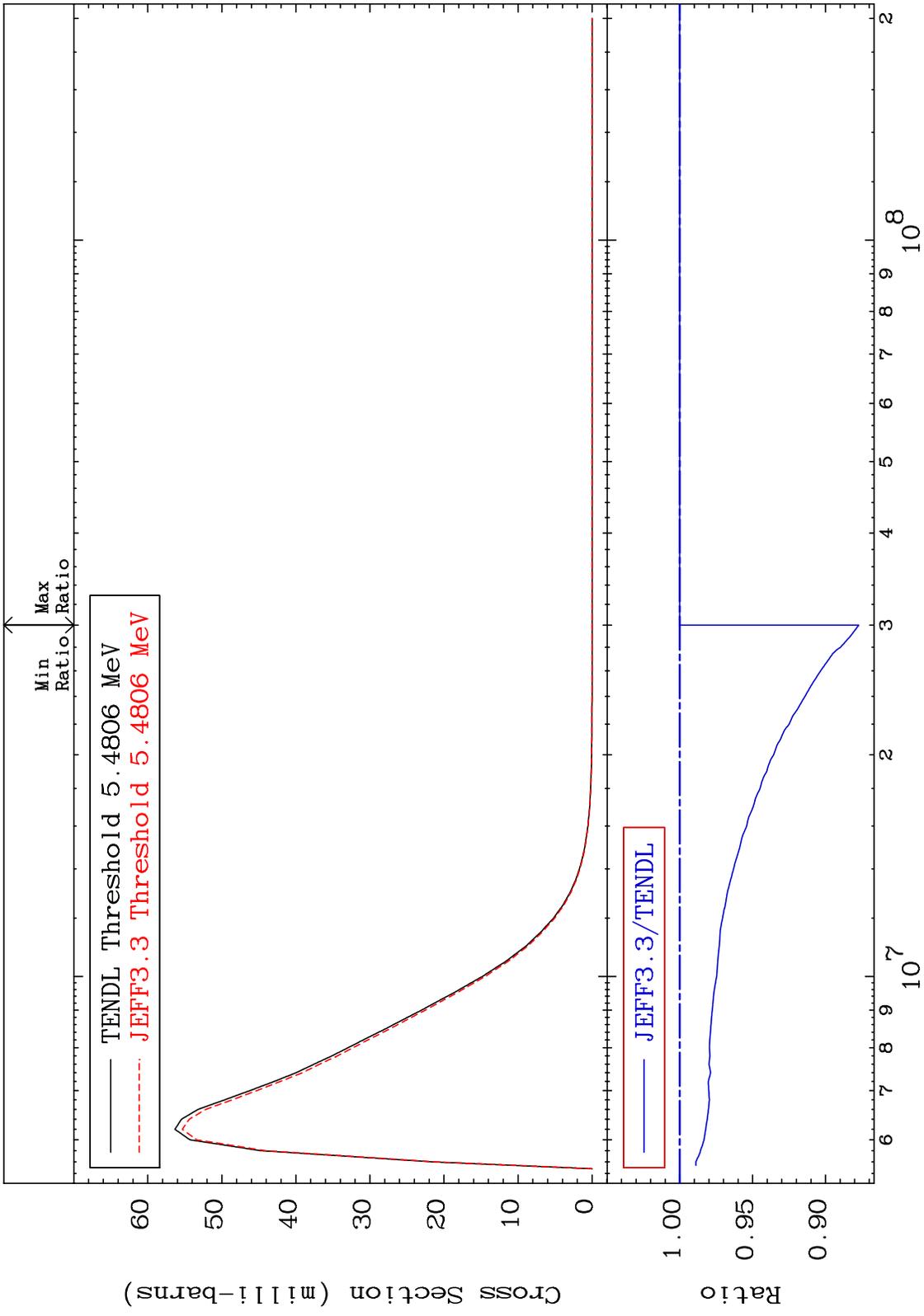
16-S -34

MAT 1631 MT= 61 (n,n') Level Cross Section 16-S -34  
 -12.26 To 0.000 %

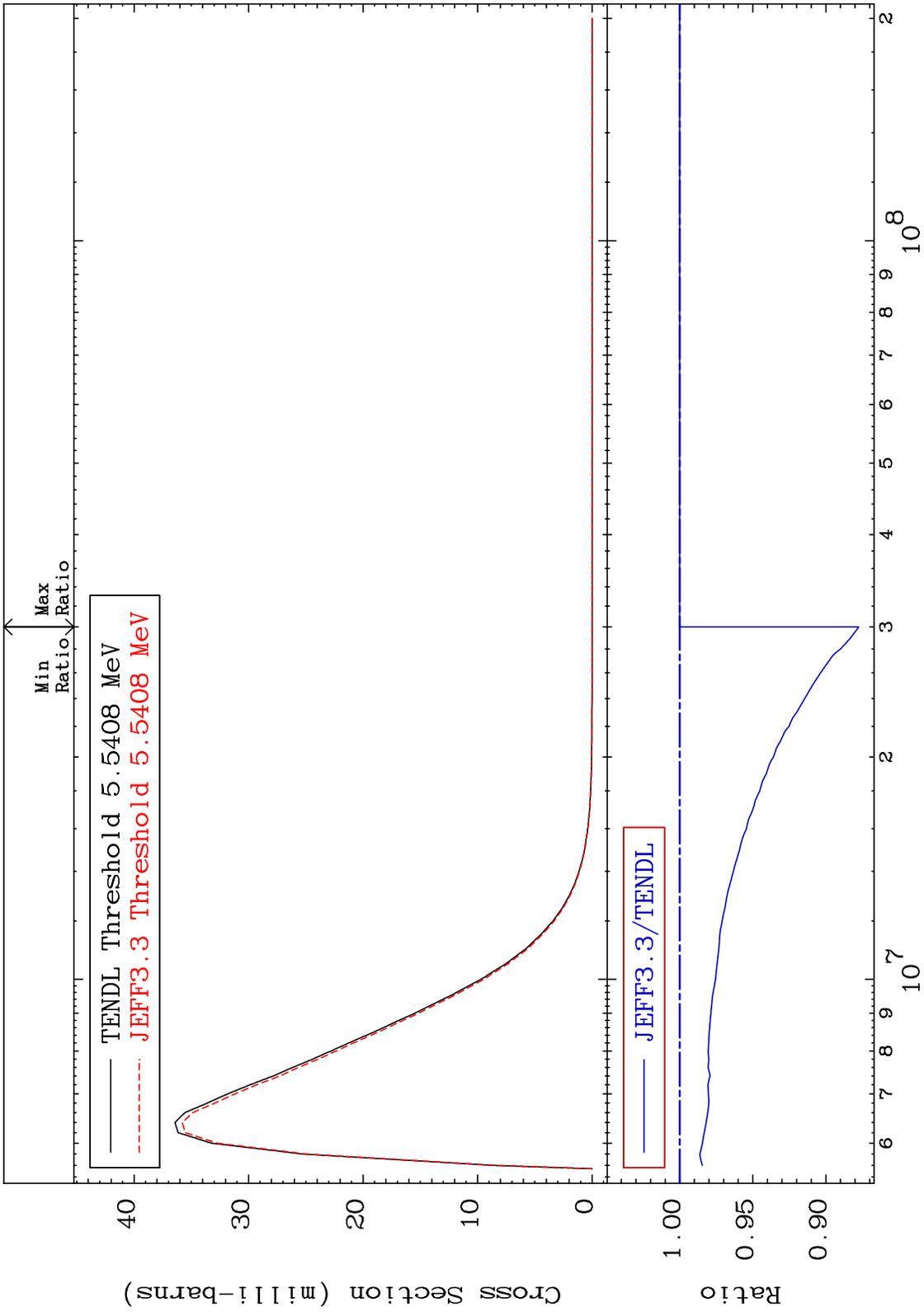


28 16-S -34

MAT 1631 MT= 62 (n,n') Level Cross Section -12.28 To 0.000 % 16-S -34



MAT 1631 MT= 63 (n, n') Level Cross Section -12.26 To 0.000 % 16-S -34

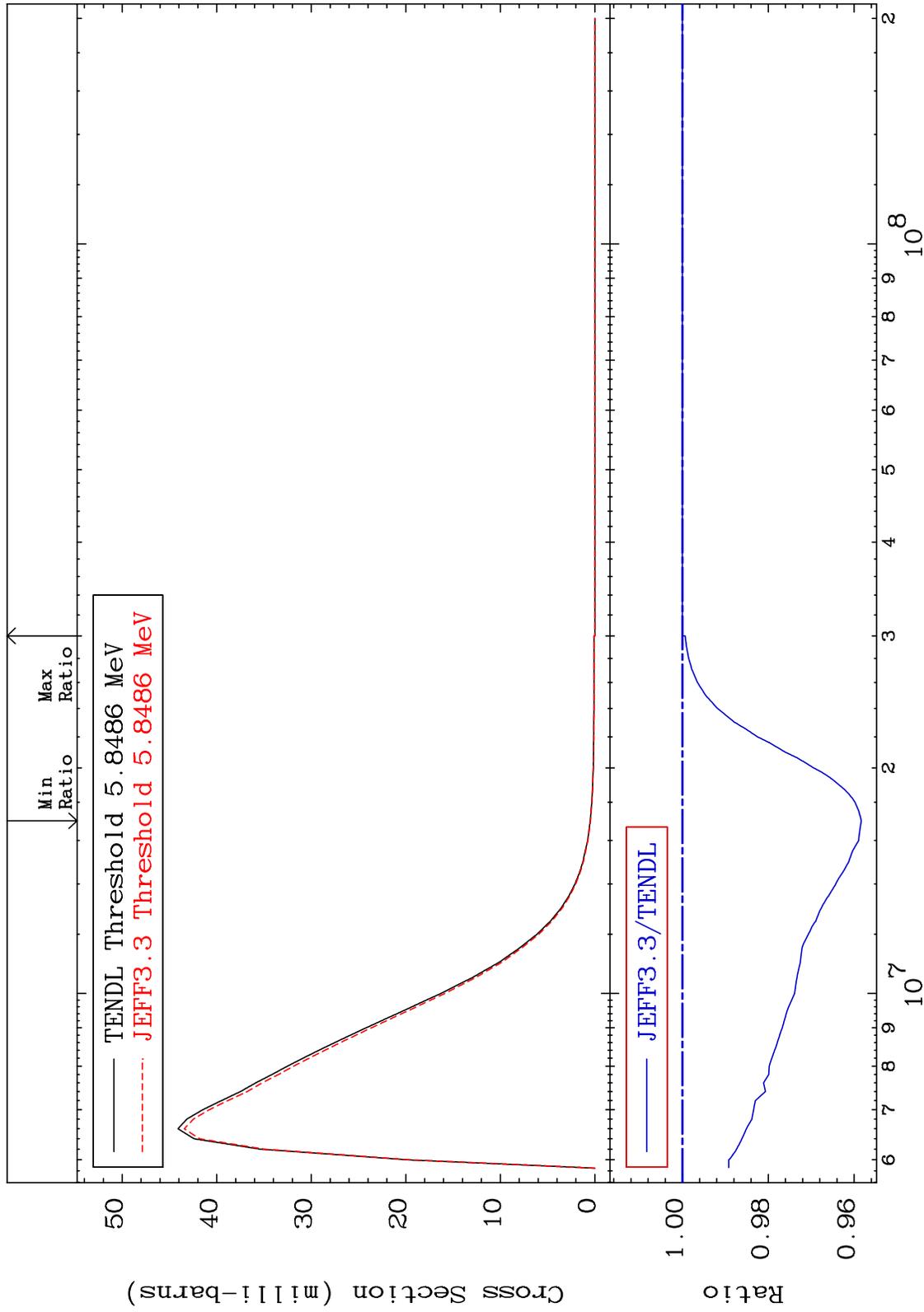


30 Incident Energy (eV) 16-S -34

MAT 1631

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

16-S -34  
-4.168 To 0.000 %



31

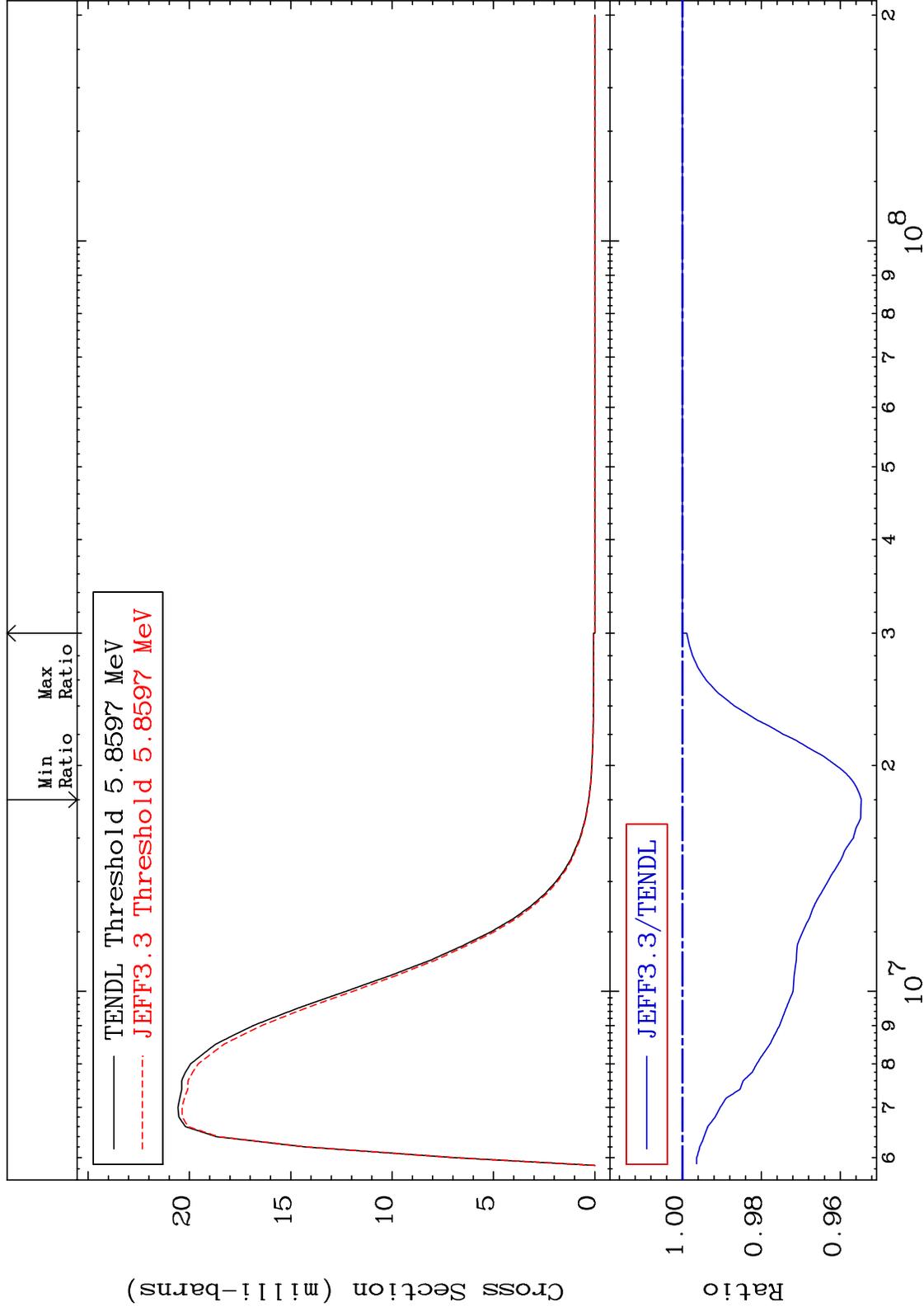
Incident Energy (eV)

16-S -34

MAT 1631

MT= 65 (n,n') Level  
Cross Section

16-S -34  
-4.535 To 0.000 %



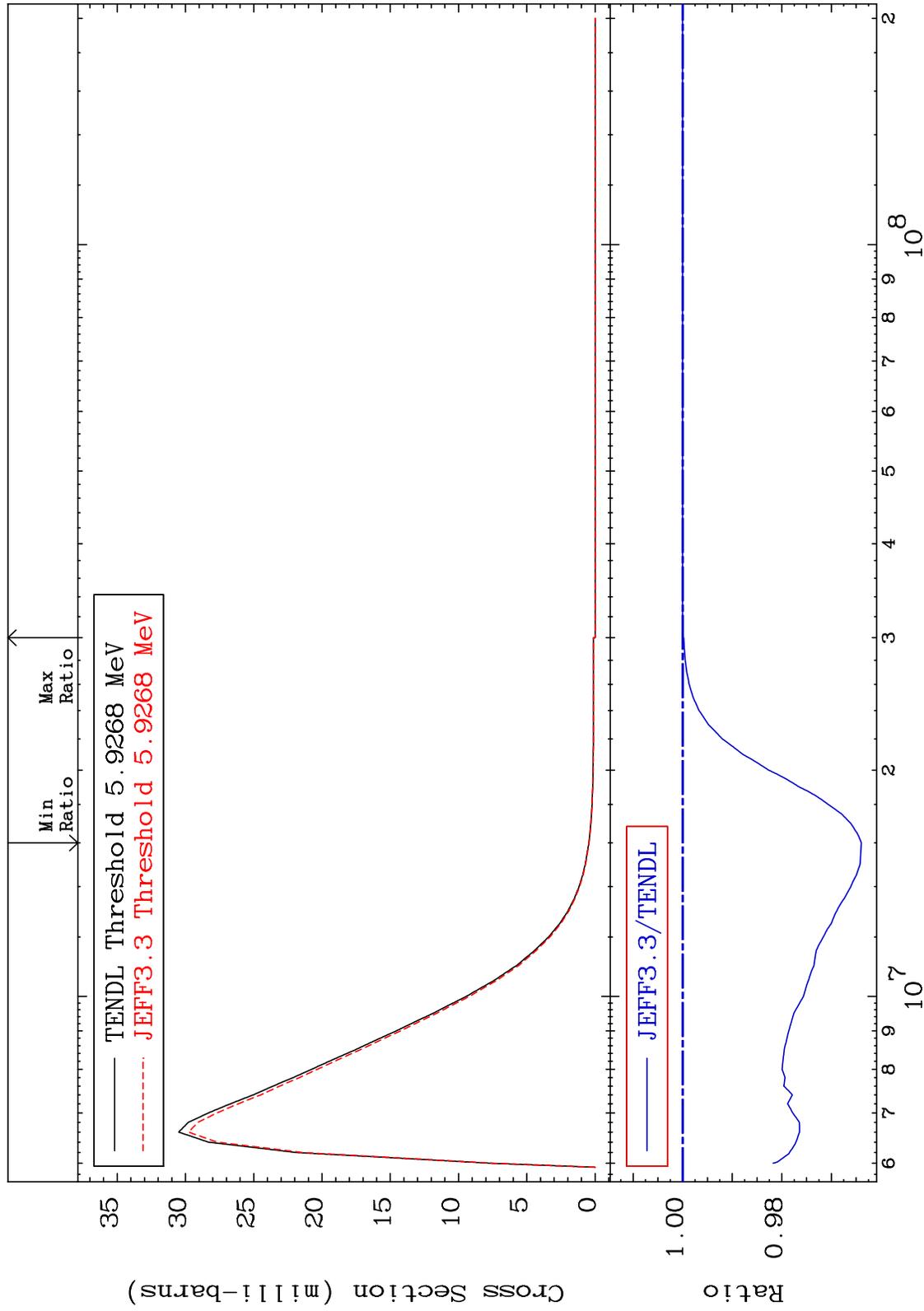
32

16-S -34

MAT 1631

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

16-S -34  
-3.606 To 0.000 %



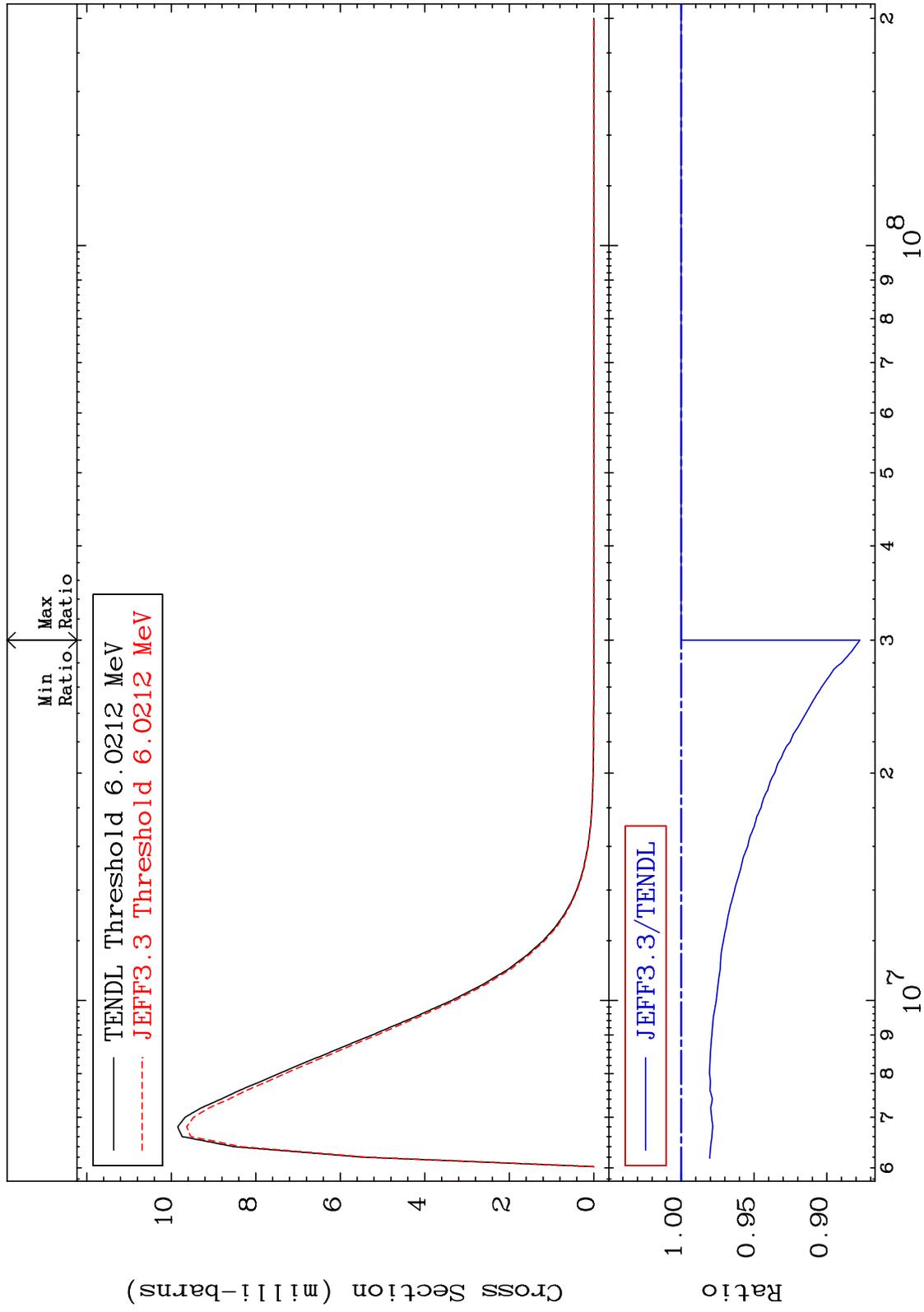
33

16-S -34

MAT 1631

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

16-S -34  
-12.26 To 0.000 %



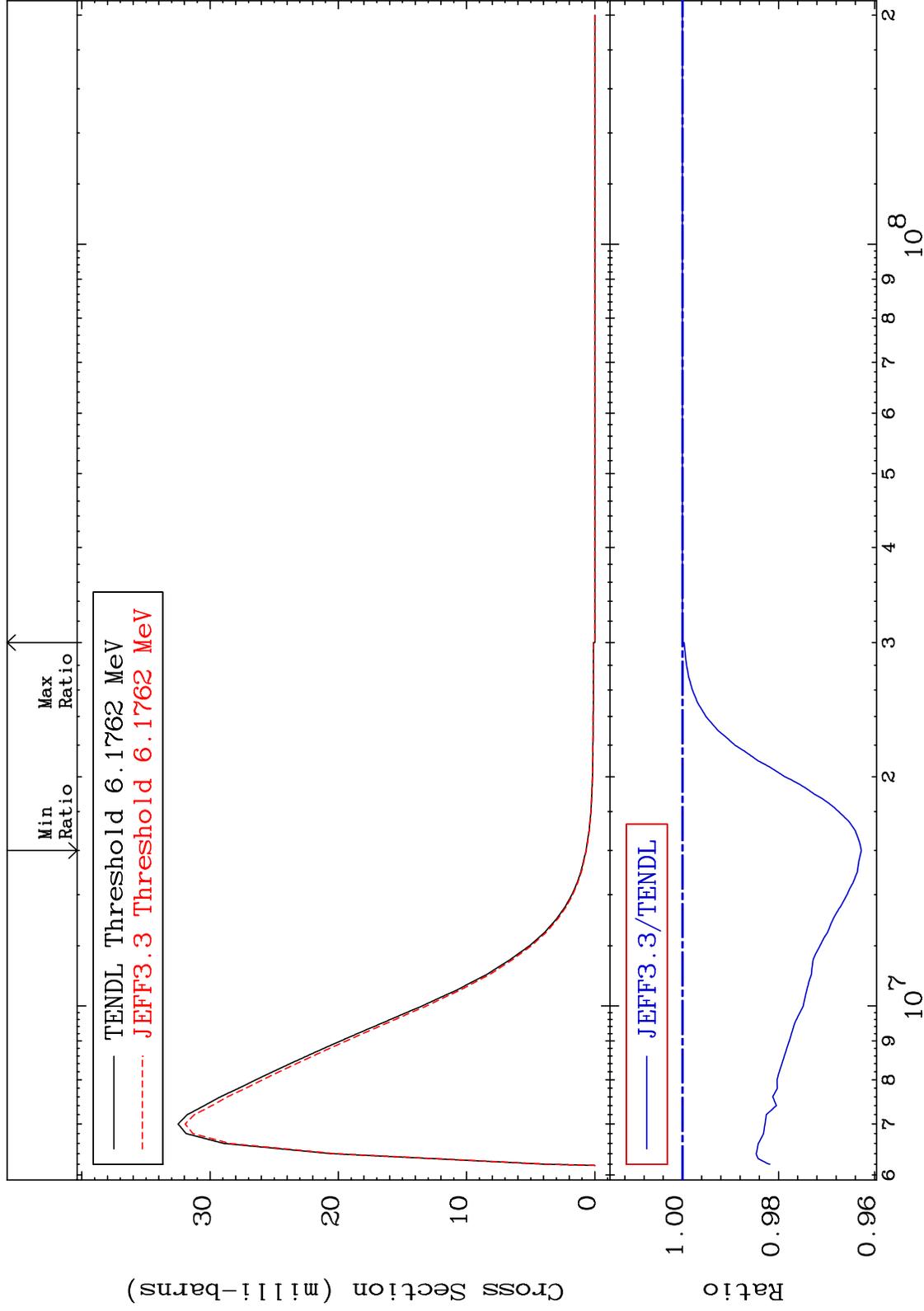
34

16-S -34

MAT 1631

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

16-S -34  
-3.724 To 0.000 %



35

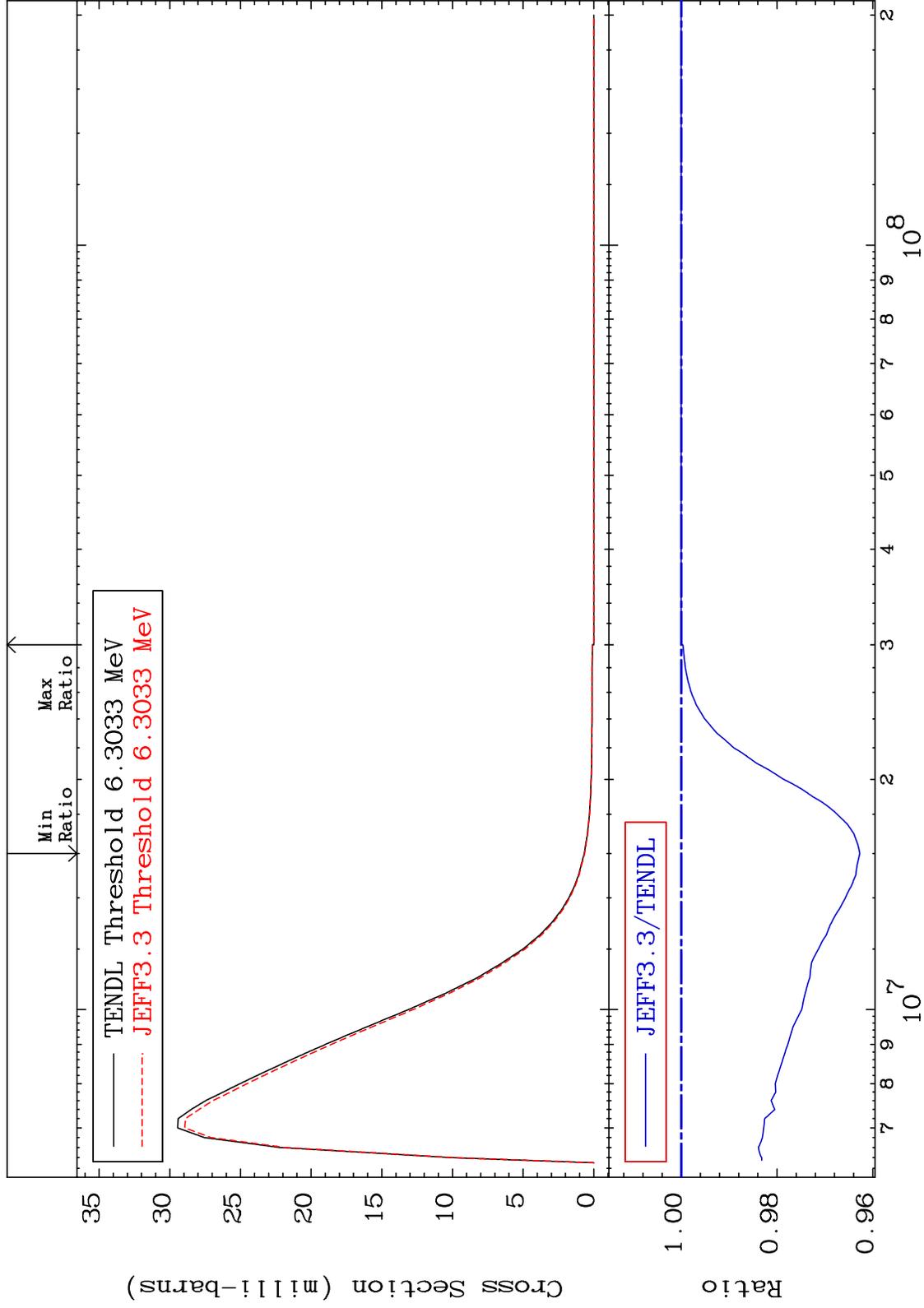
Incident Energy (eV)

16-S -34

MAT 1631

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

16-S -34  
-3.728 To 0.000 %

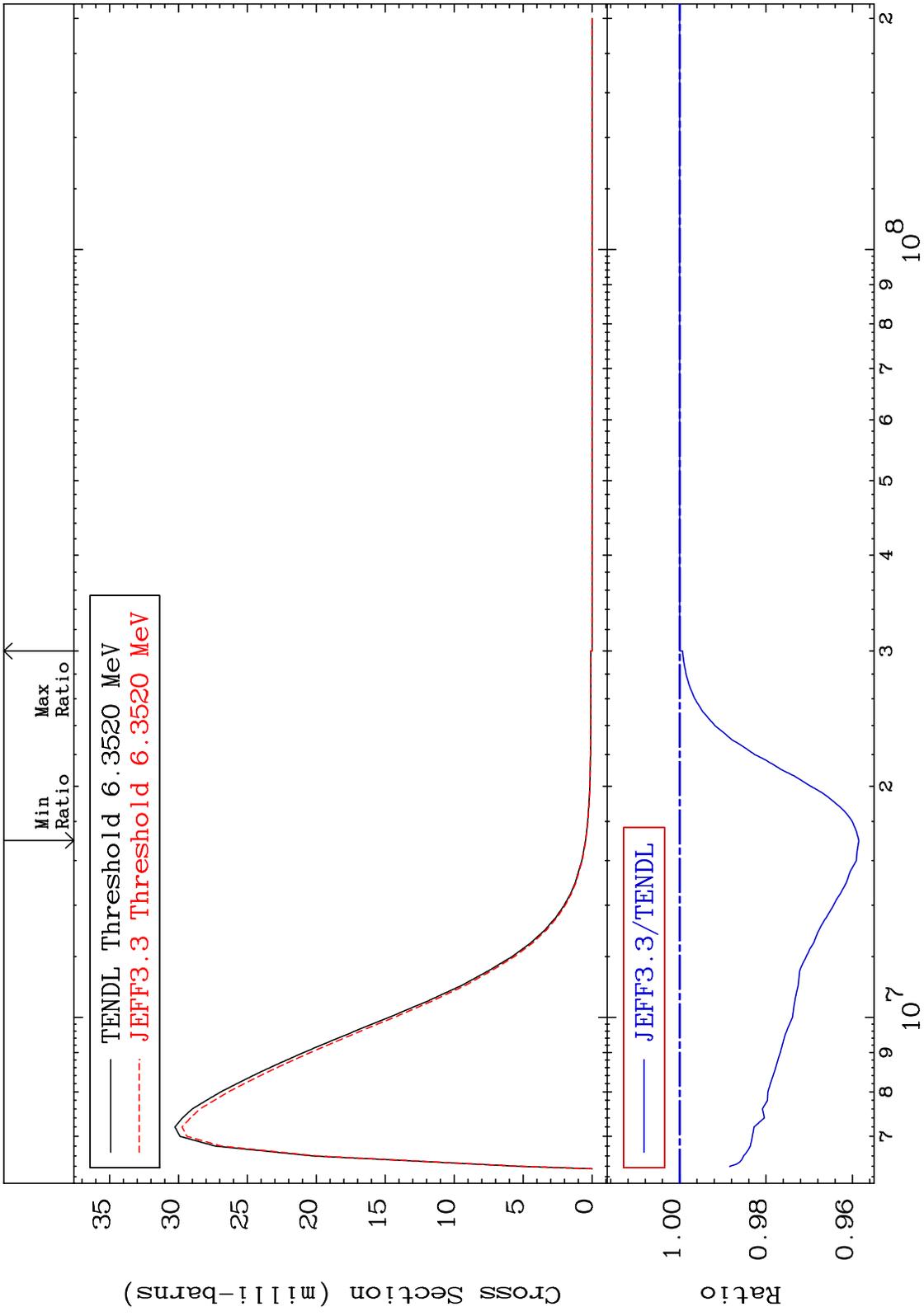


36

Incident Energy (eV)

16-S -34

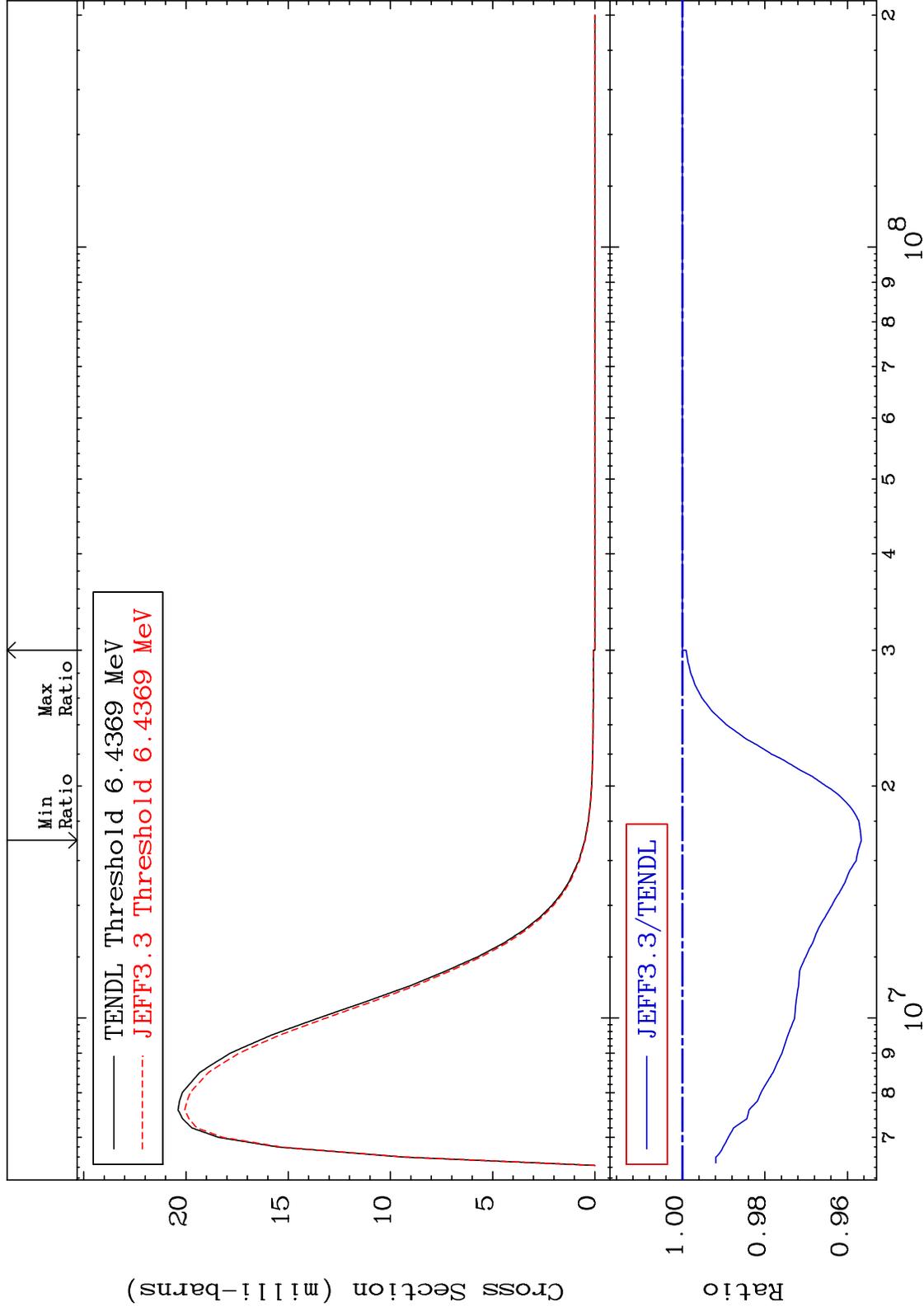
MAT 1631 MT= 70 (n,n') Level Cross Section 16-S -34  
 -4.150 To 0.000 %



MAT 1631

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

16-S -34  
-4.338 To 0.000 %



38

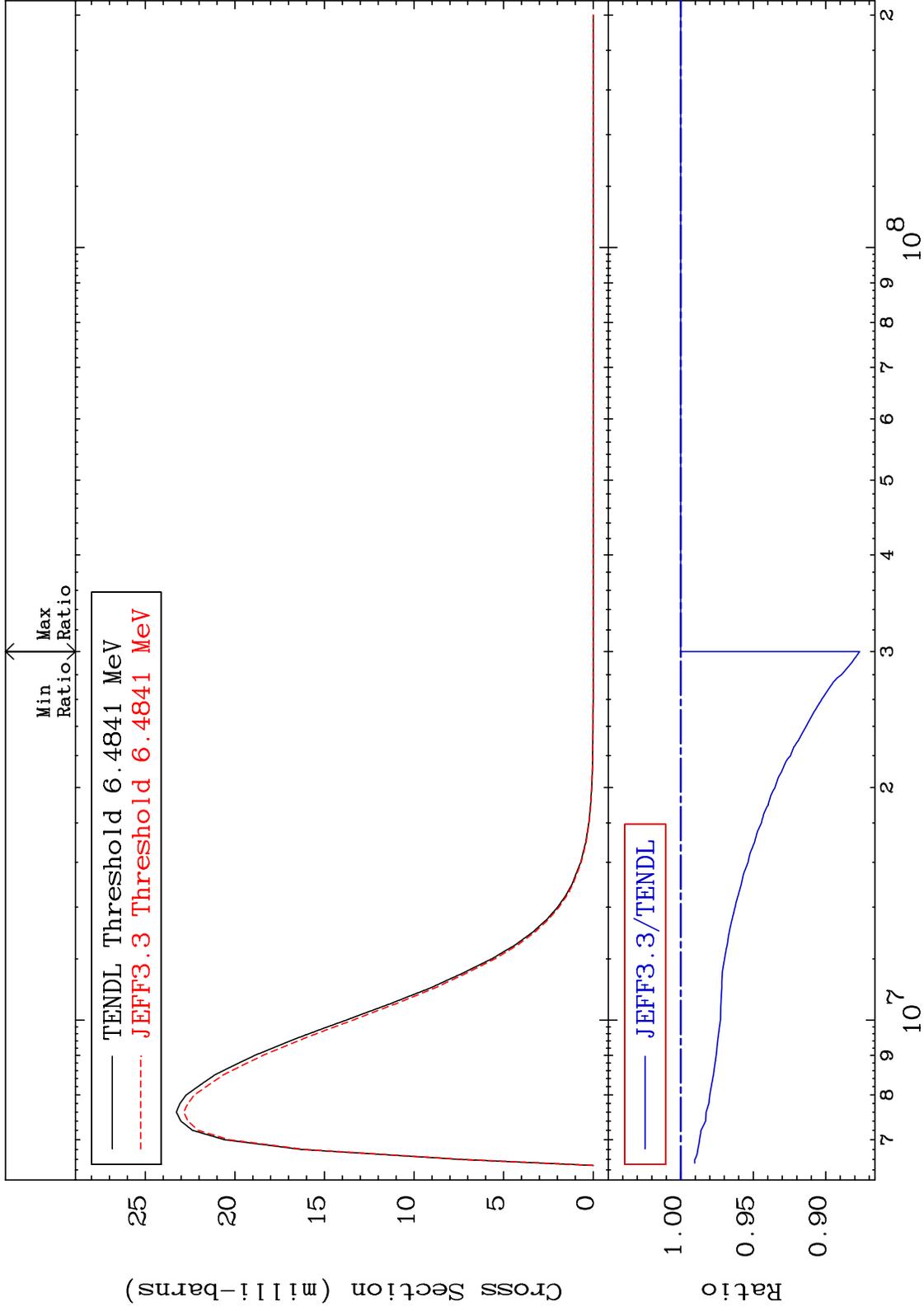
Incident Energy (eV)

16-S -34

MAT 1631

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

16-S -34  
-12.34 To 0.000 %



39

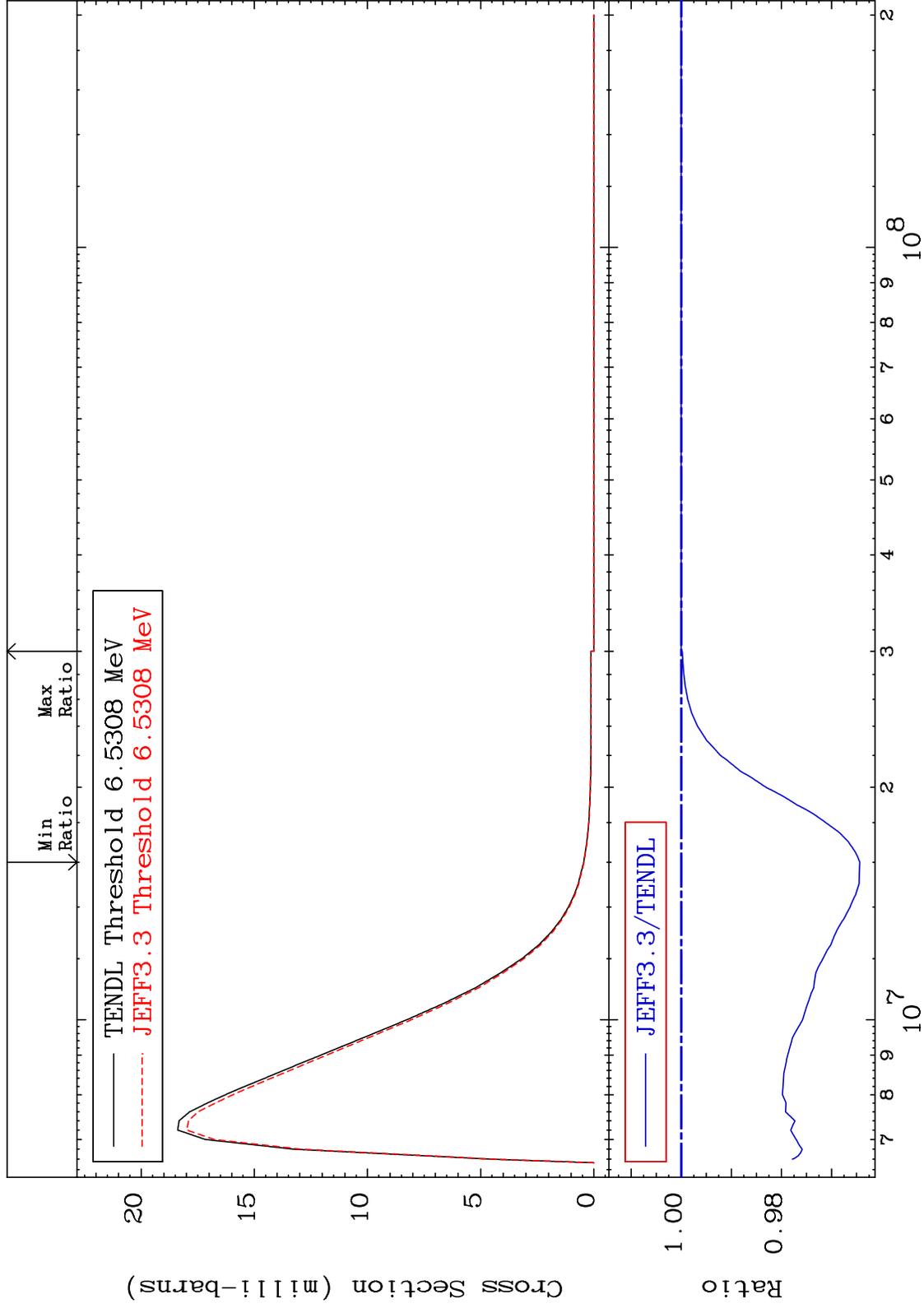
Incident Energy (eV)

16-S -34

MAT 1631

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

16-S -34  
-3.564 To 0.000 %

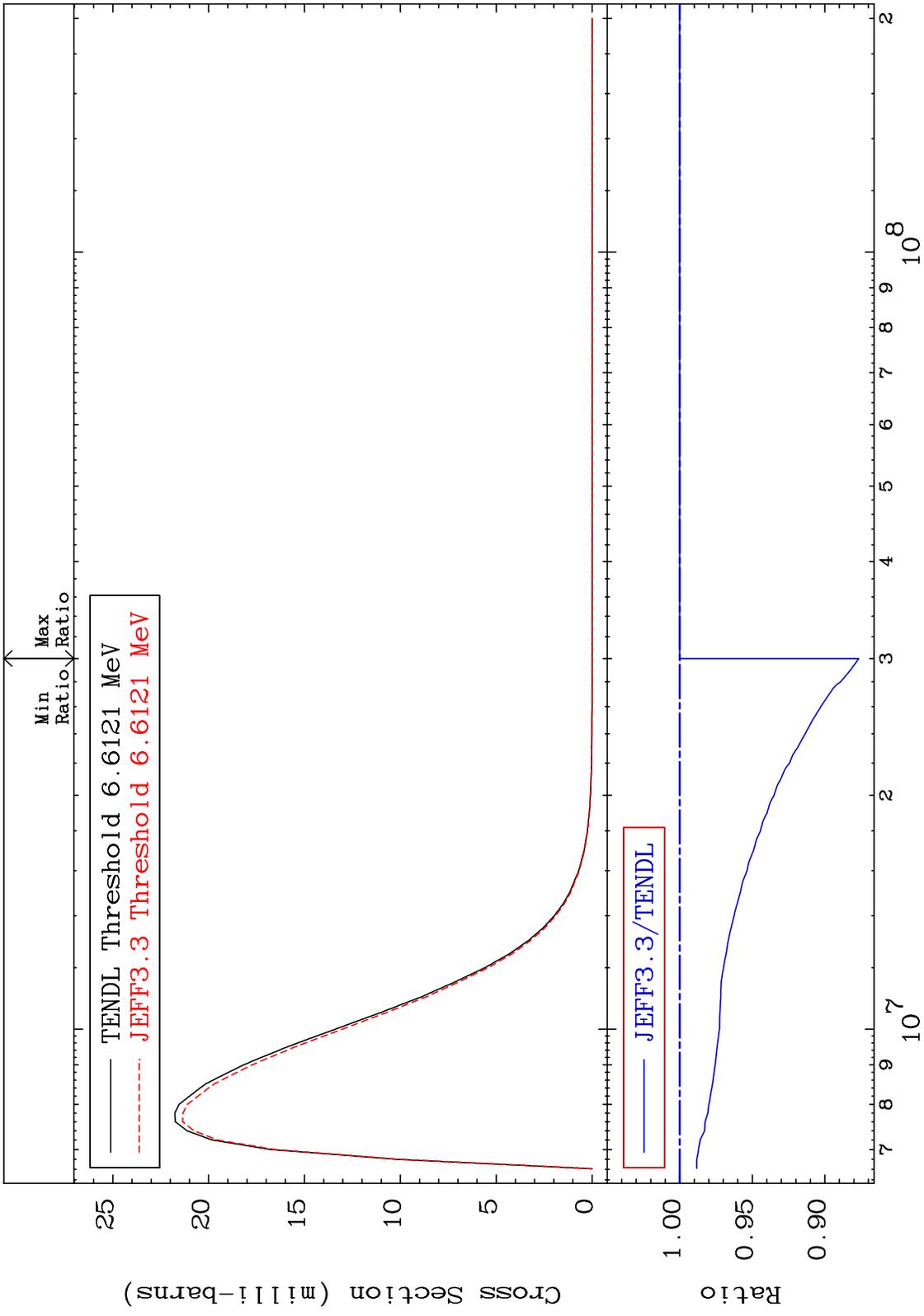


40

Incident Energy (eV)

16-S -34

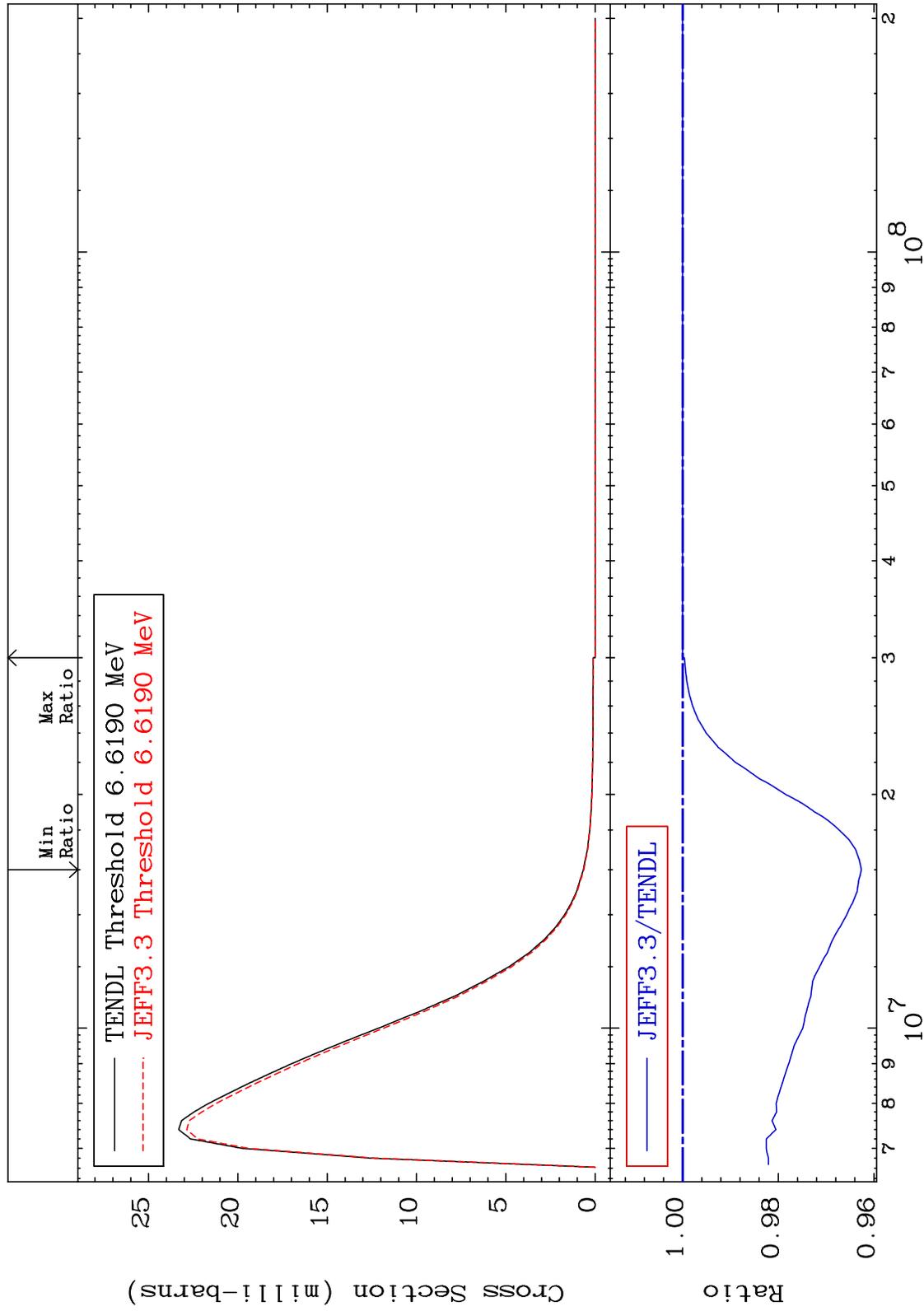
MAT 1631 MT= 74 (n,n') Level Cross Section -12.34 To 0.000 % 16-S -34



MAT 1631

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

16-S -34  
-3.737 To 0.000 %



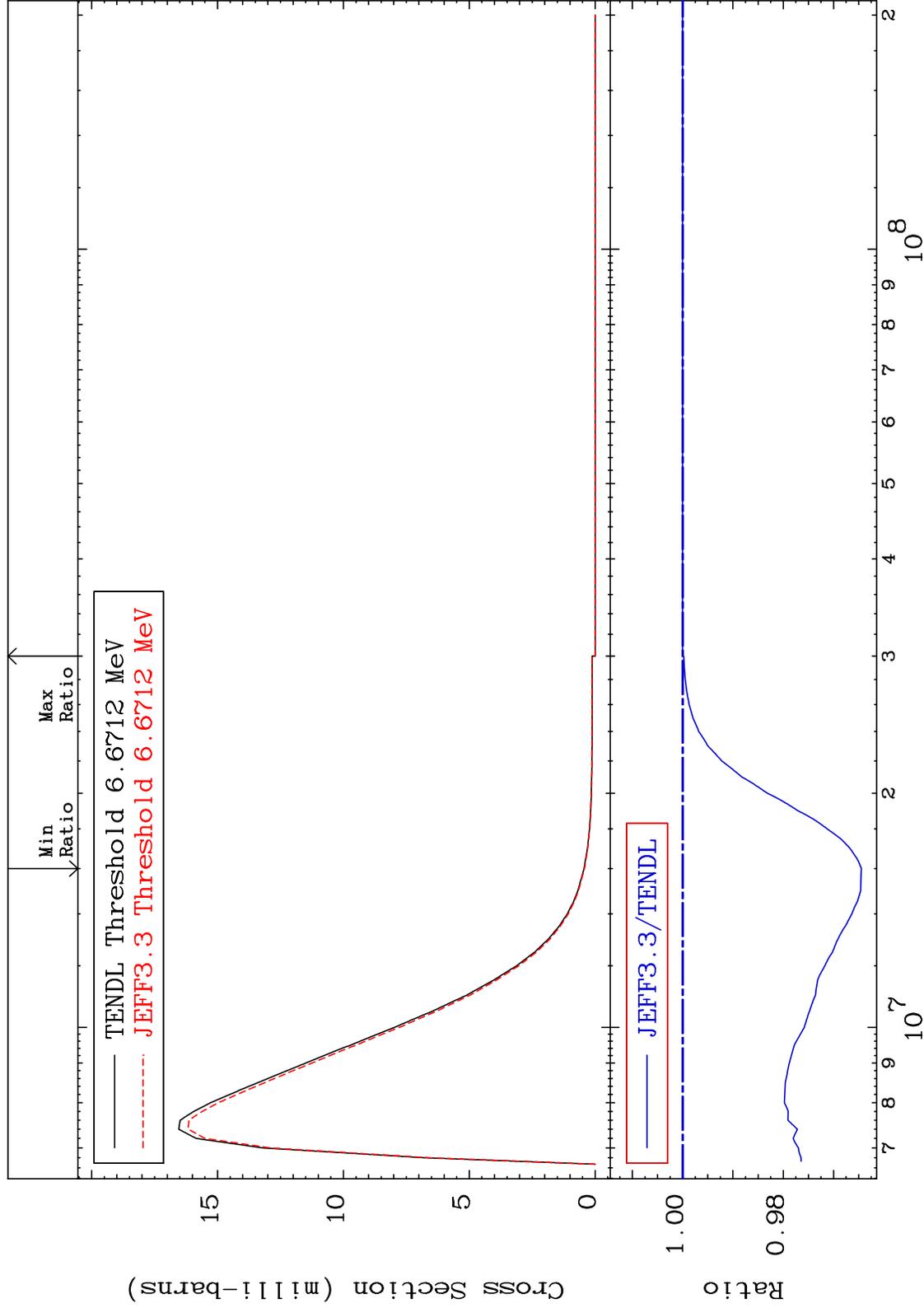
42

16-S -34

MAT 1631

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

16-S -34  
-3.554 To 0.000 %



43

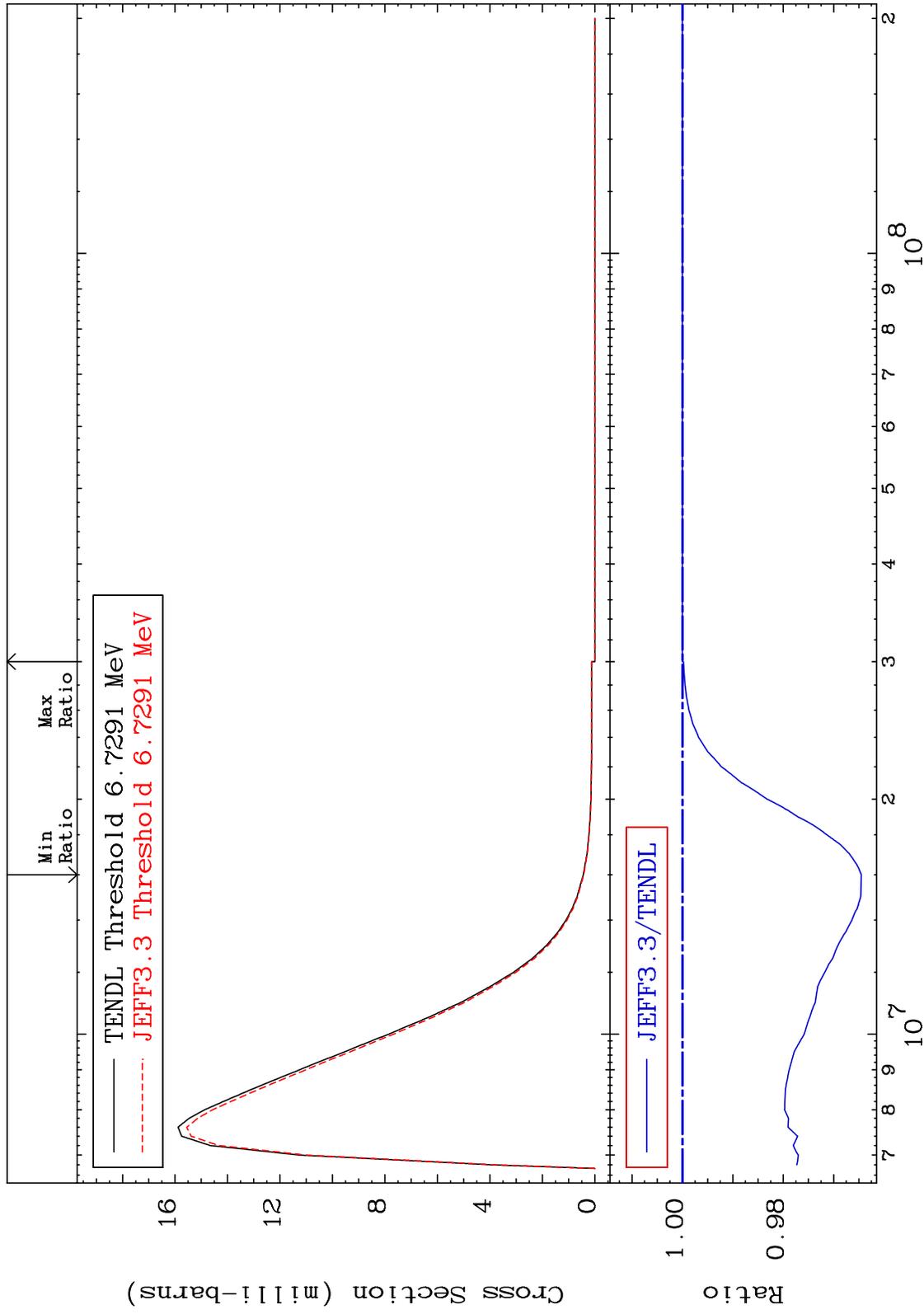
Incident Energy (eV)

16-S -34

MAT 1631

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

16-S -34  
-3.550 To 0.000 %

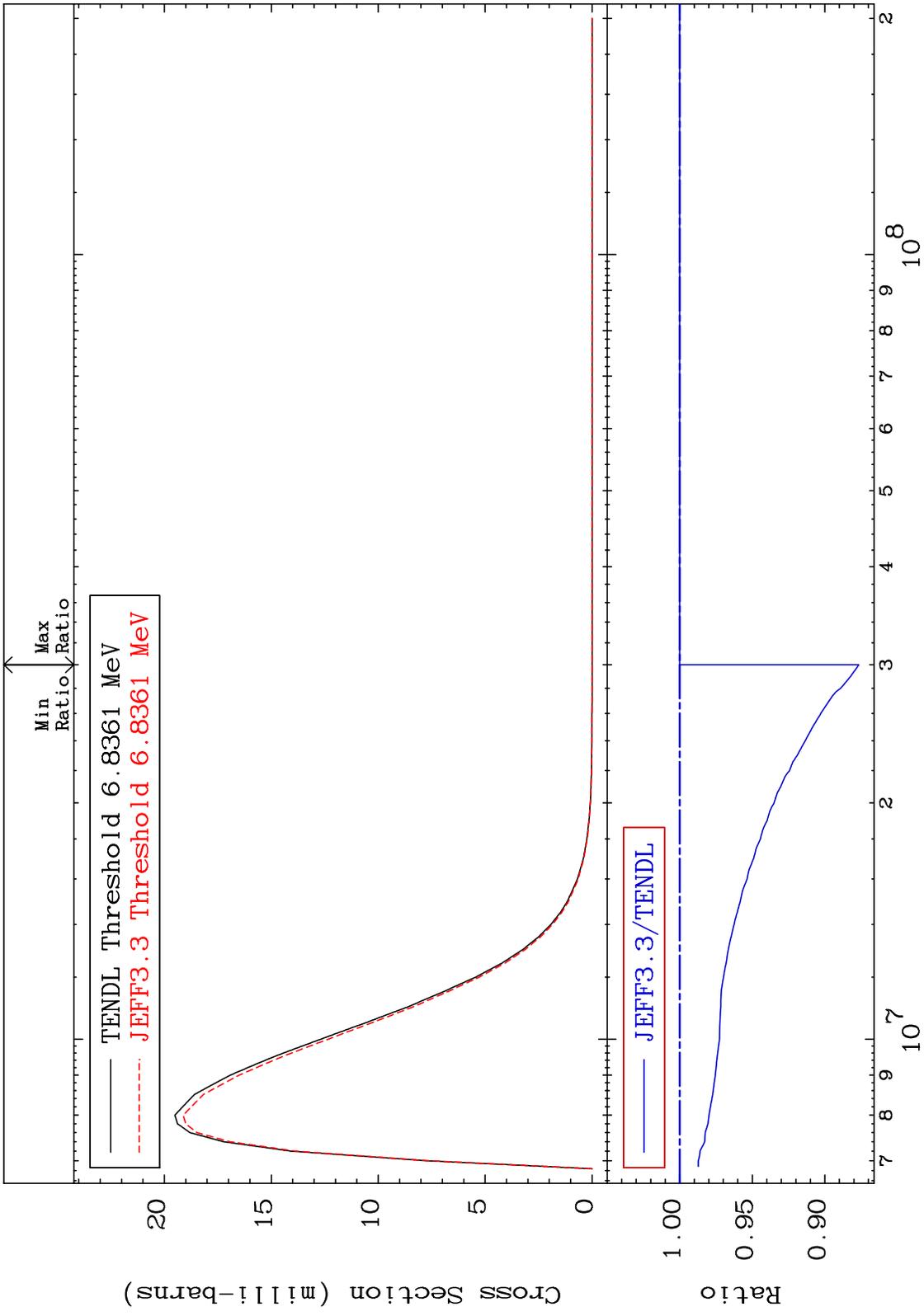


44

Incident Energy (eV)

16-S -34

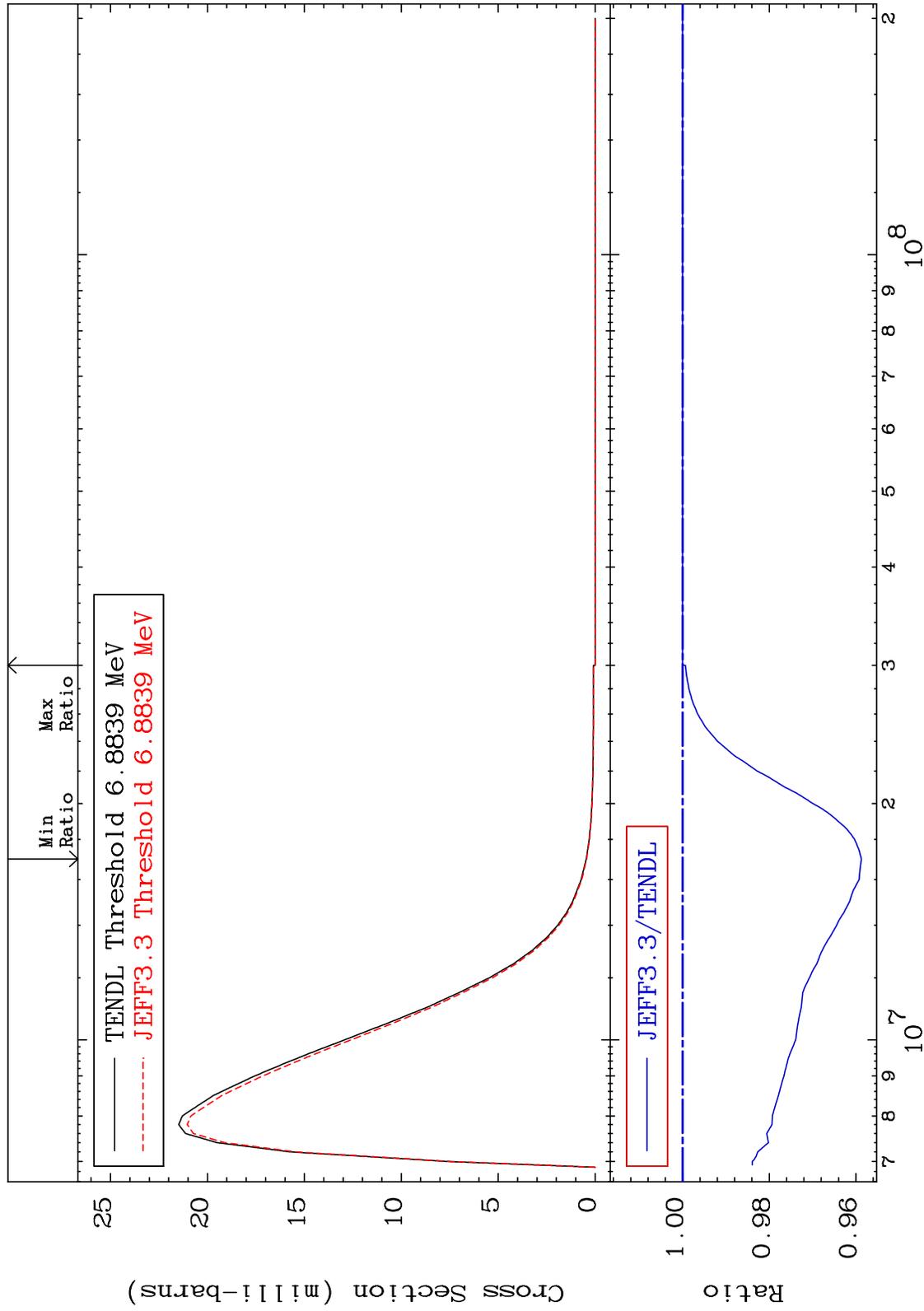
MAT 1631 MT= 78 (n,n') Level Cross Section -12.34 To 0.000 % 16-S -34



MAT 1631

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

16-S -34  
-4.128 To 0.000 %



46

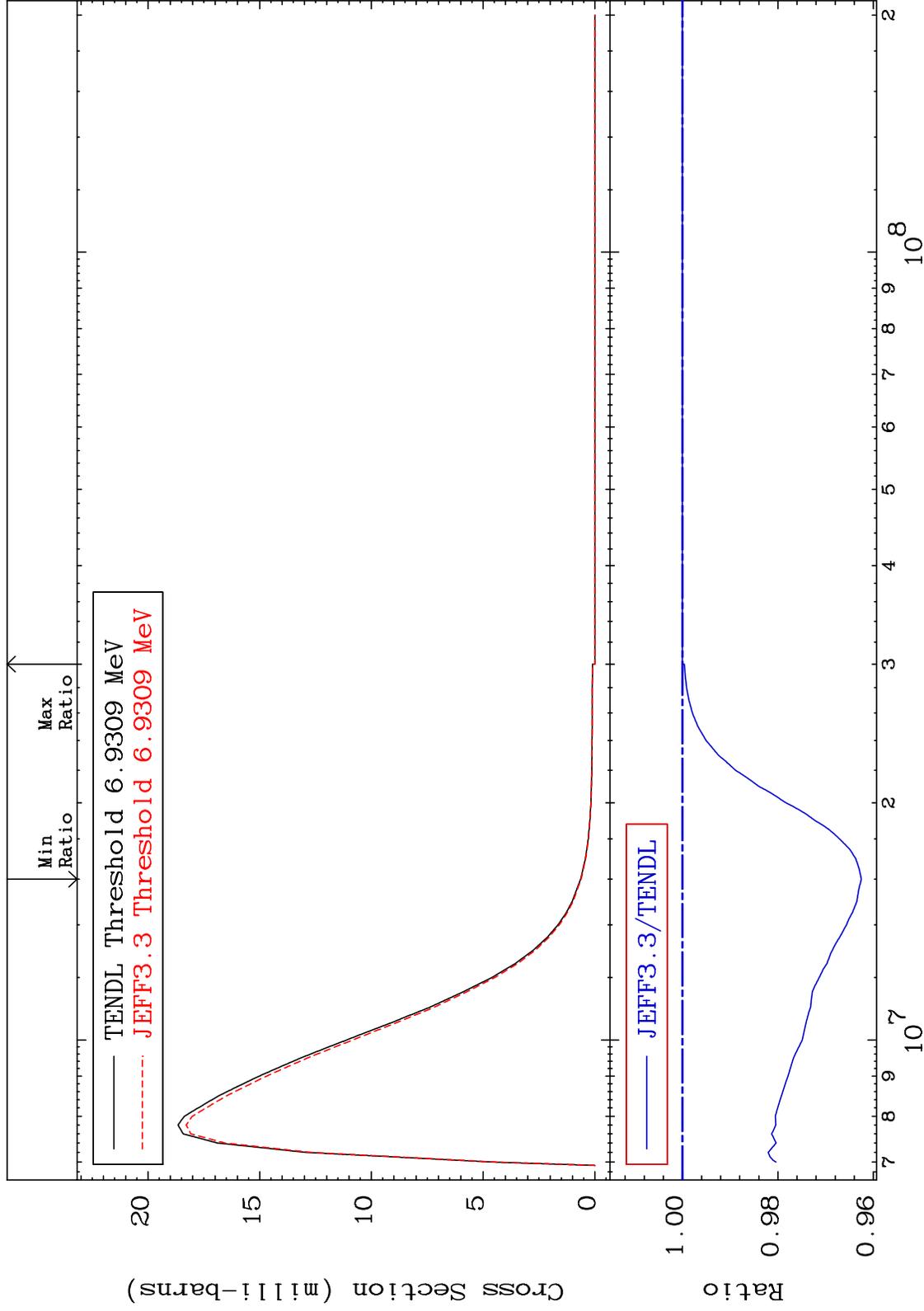
Incident Energy (eV)

16-S -34

MAT 1631

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

16-S -34  
-3.748 To 0.000 %



47

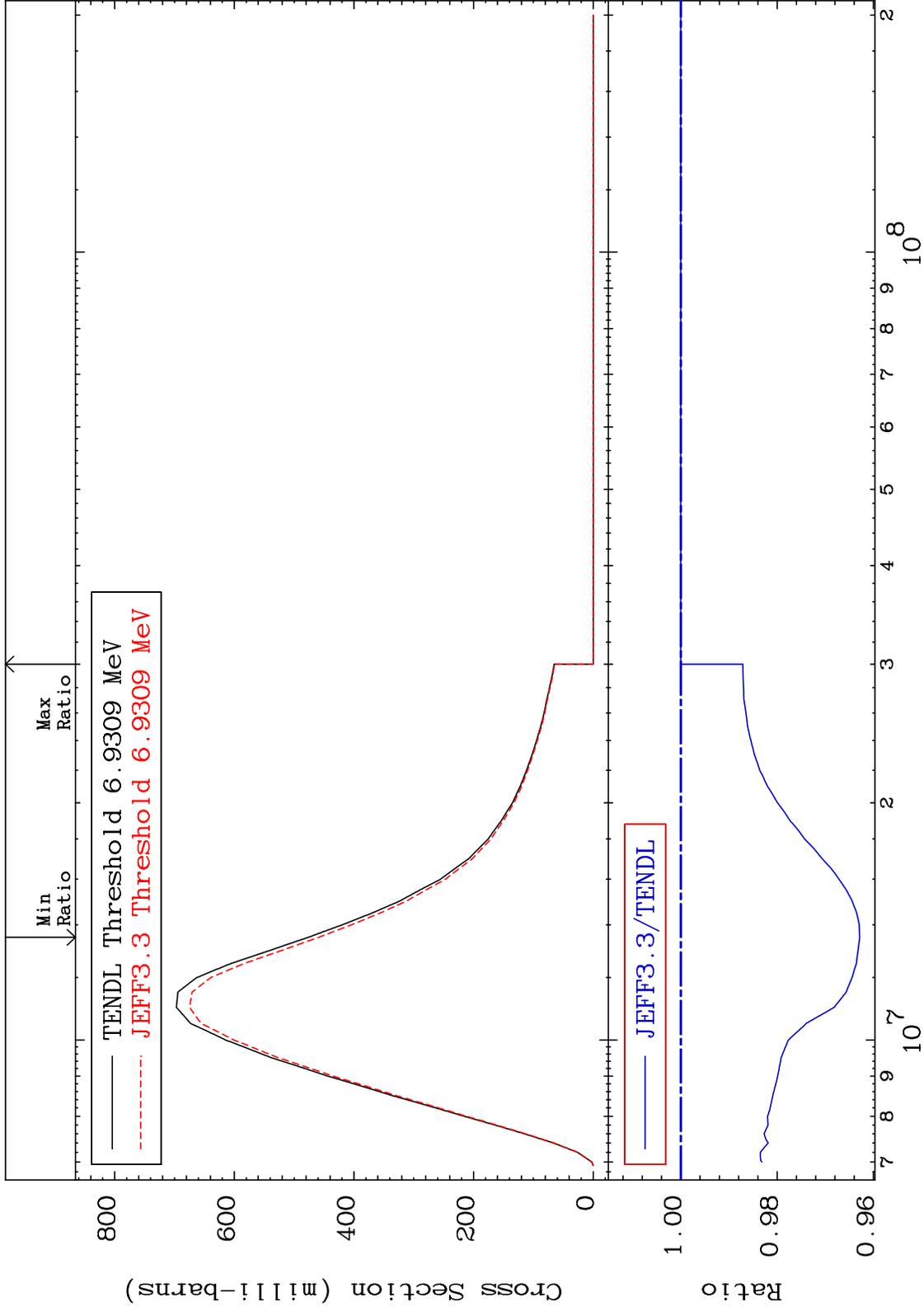
Incident Energy (eV)

16-S -34

MAT 1631

(n,n') Continuum  
Cross Section

16-S -34  
-3.713 To 0.000 %



48

Incident Energy (eV)

16-S -34

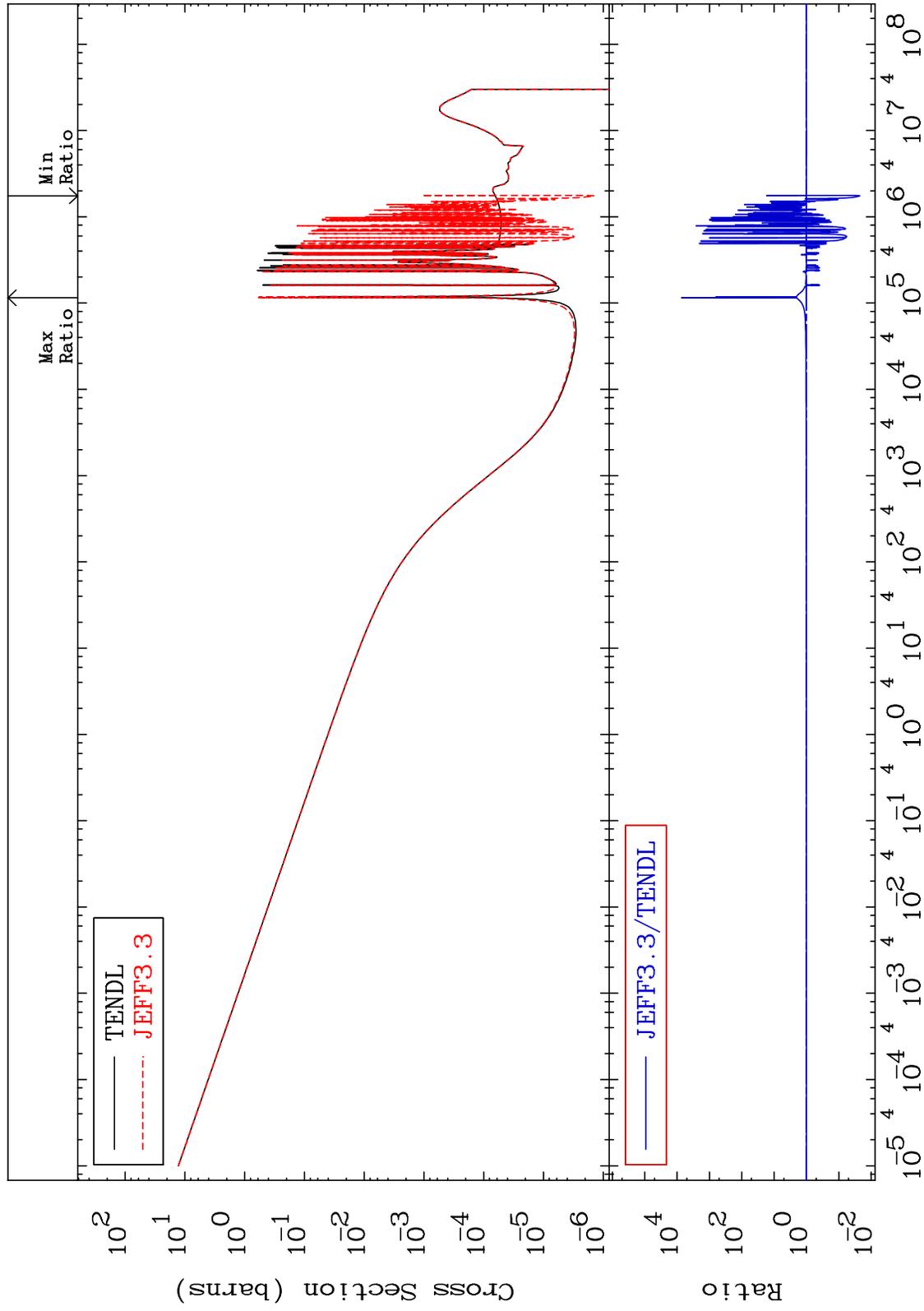
MAT 1631

(n,  $\gamma$ )

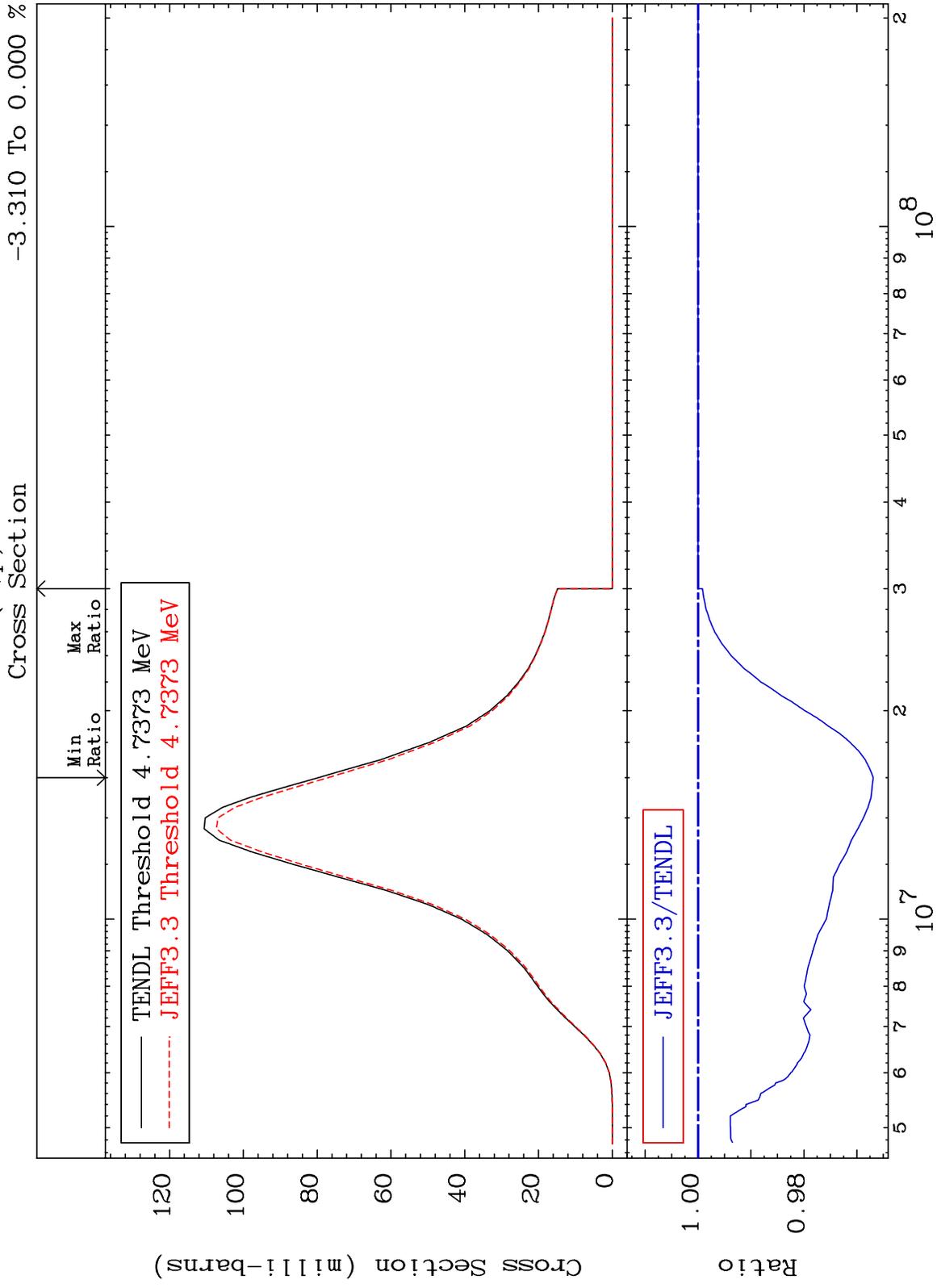
16-S -34

Cross Section

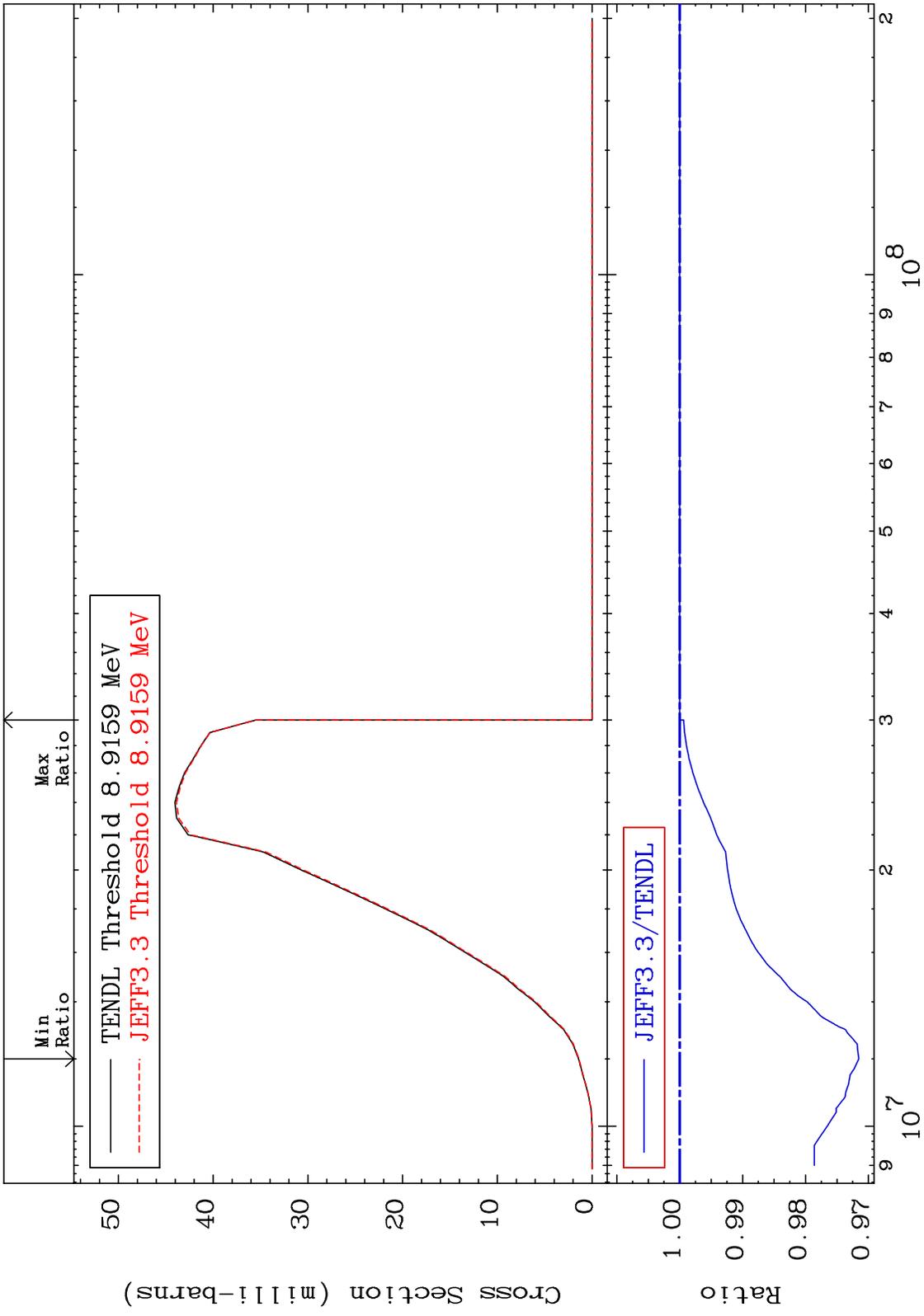
-97.77 To 9999. %

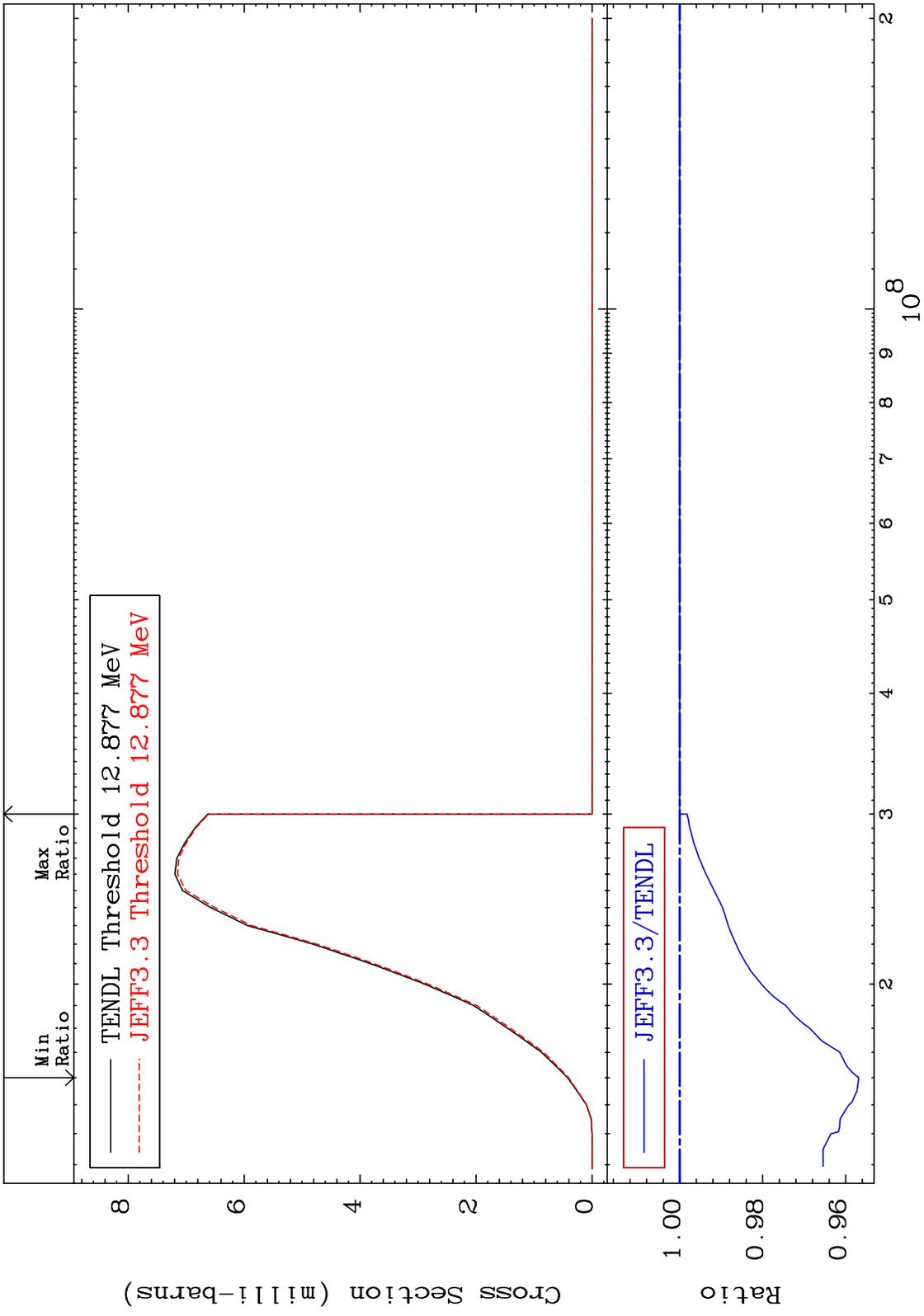


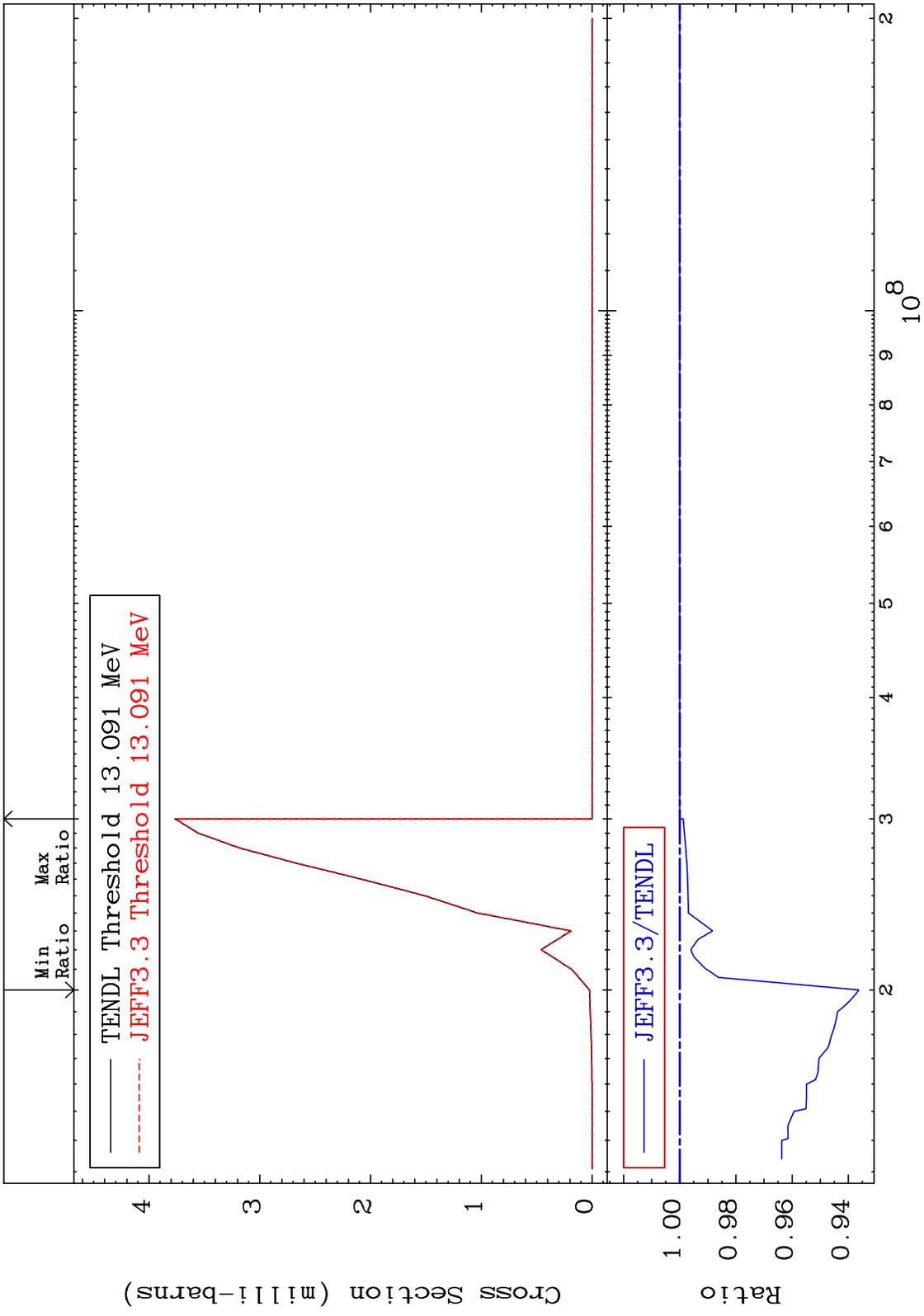
MAT 1631 (n,p) 16-S -34 -3.310 To 0.000 %

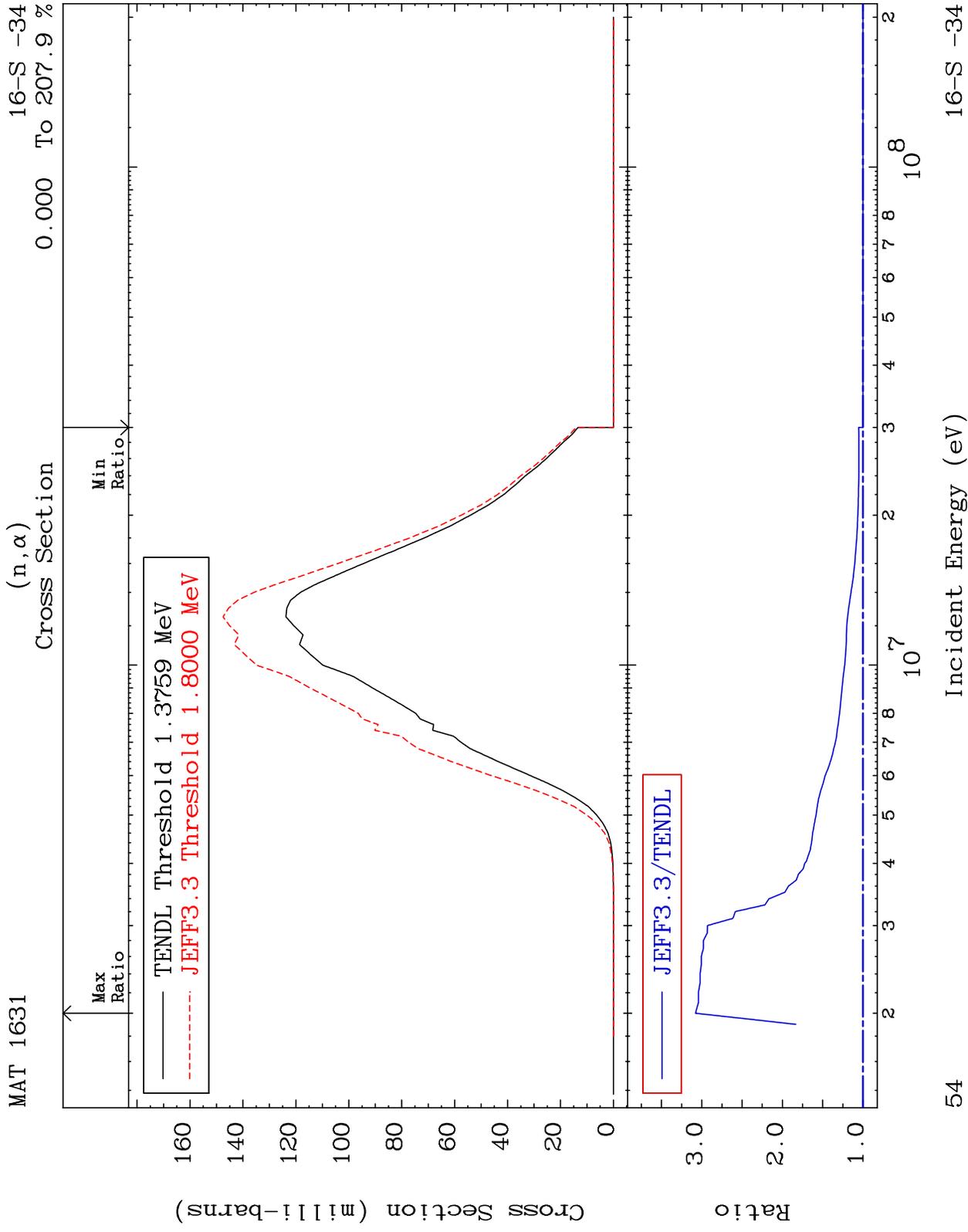


50 16-S -34

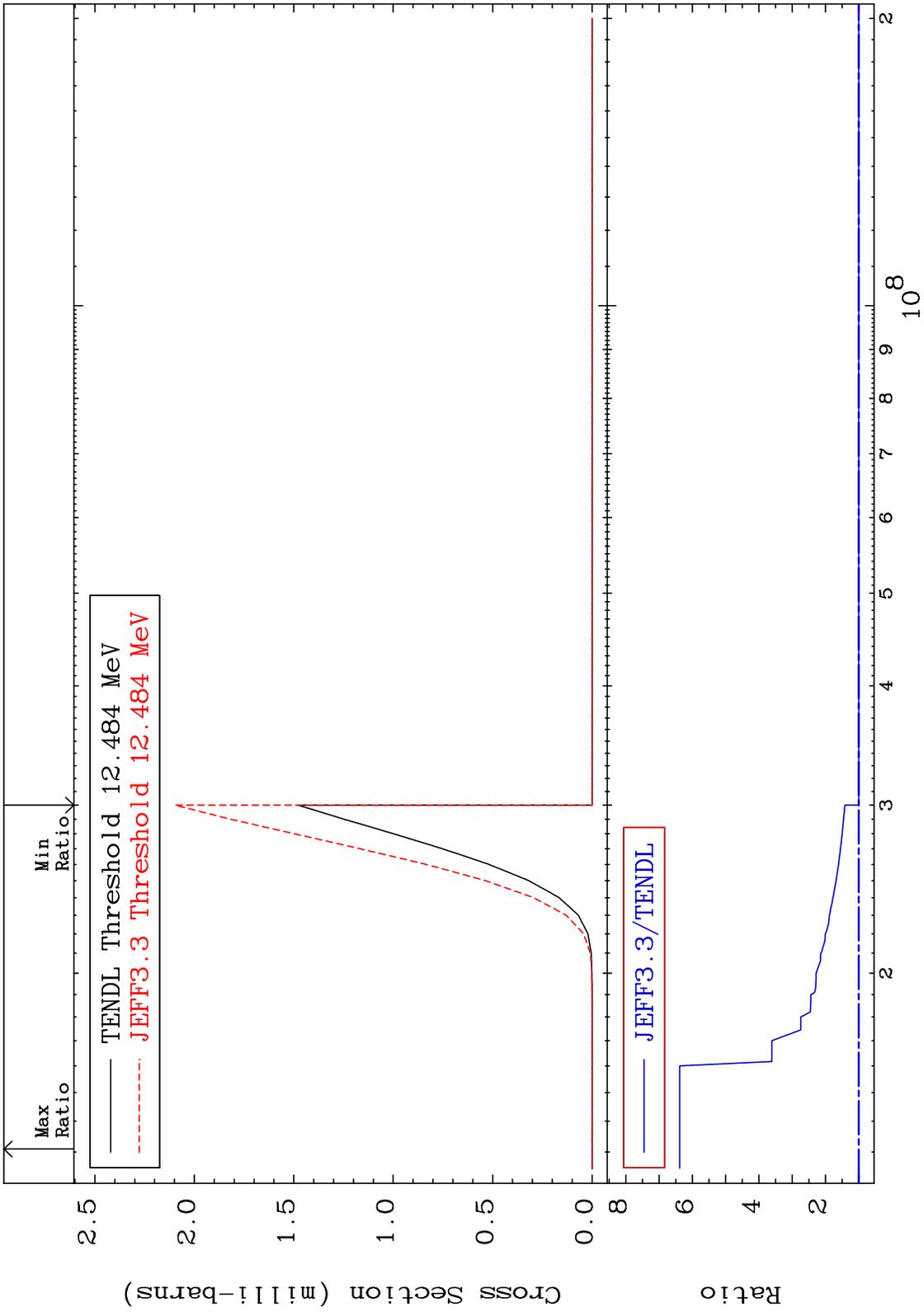




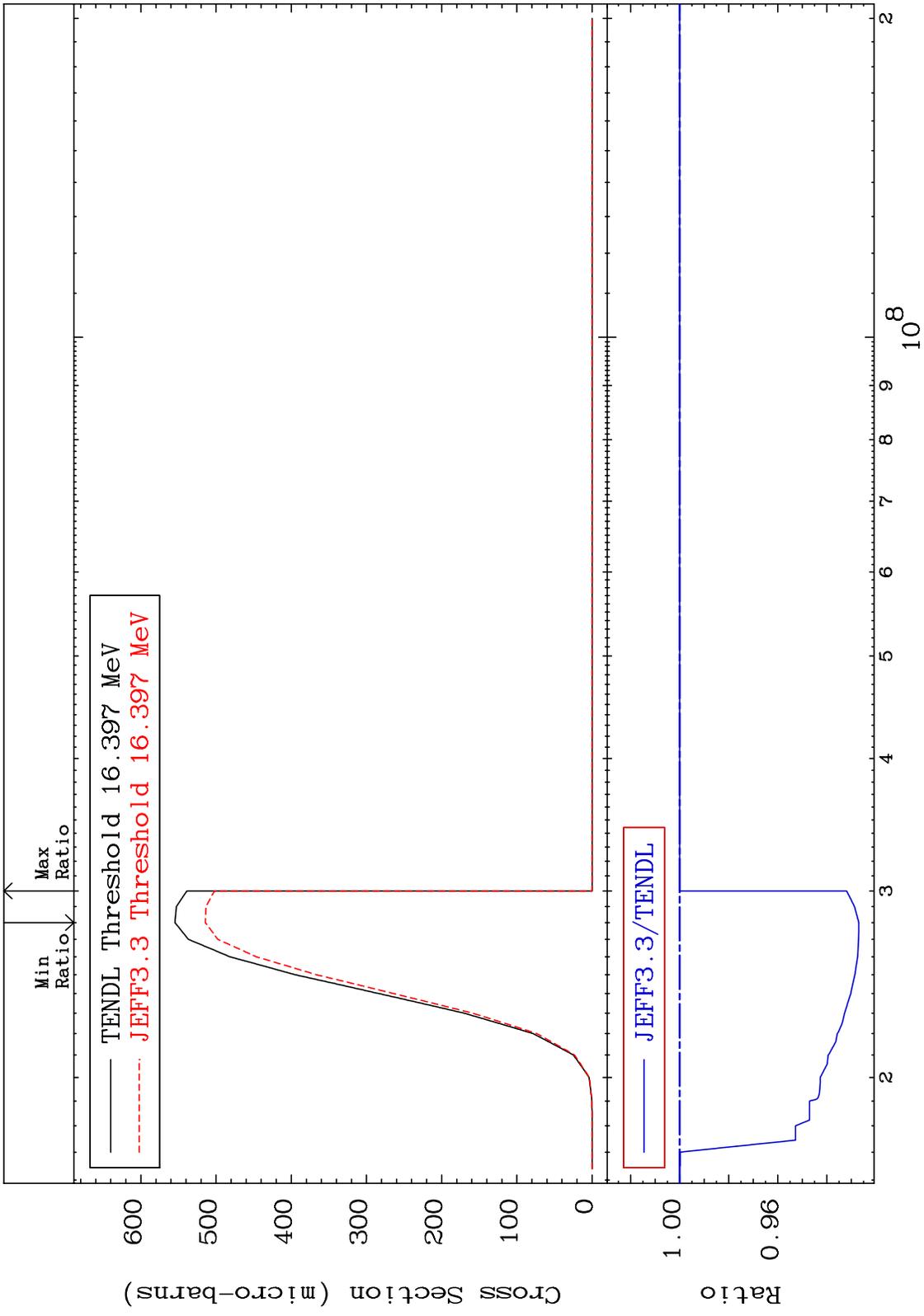




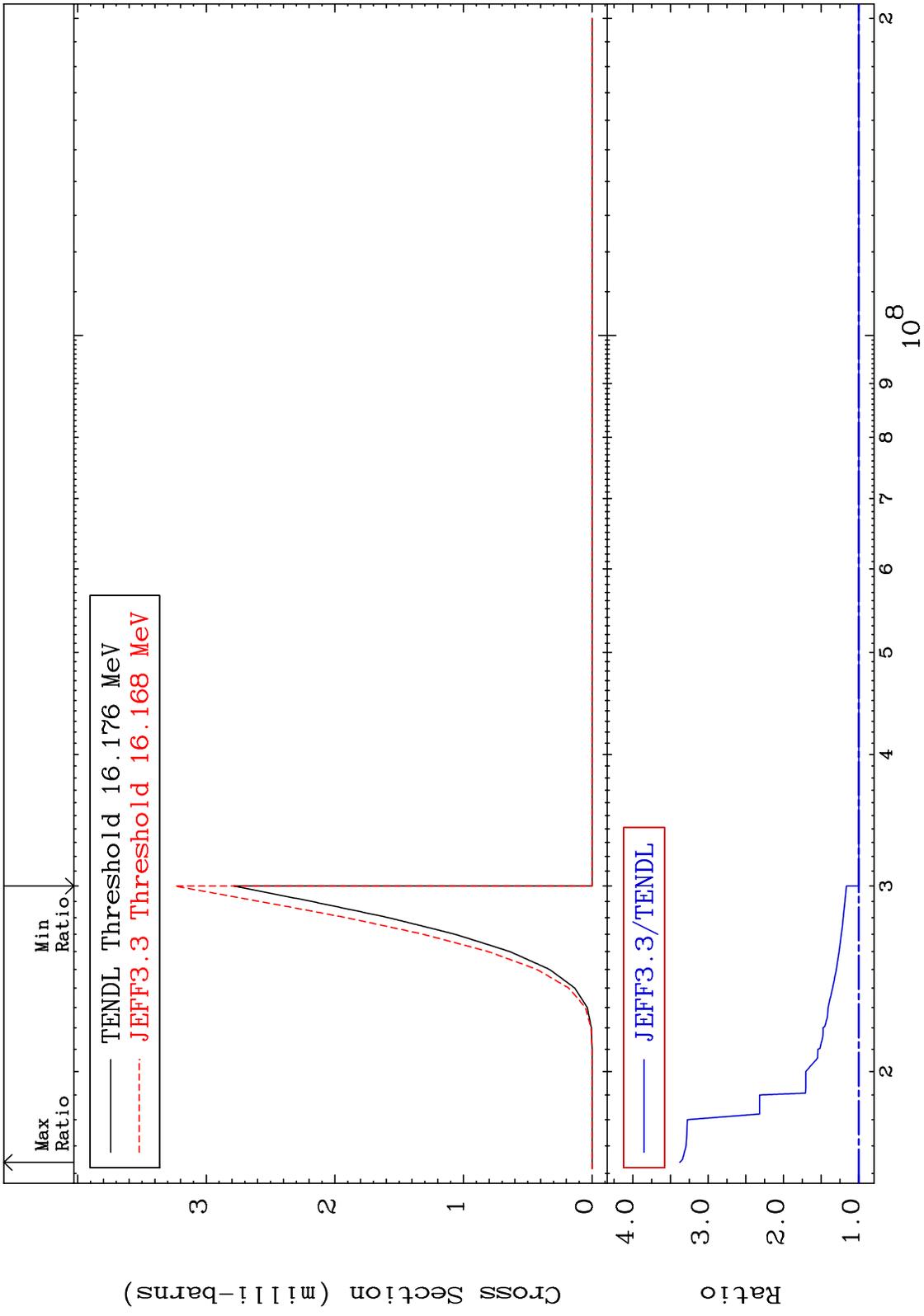
MAT 1631  $(n, 2\alpha)$  Cross Section 16-S -34 To 538.1 %

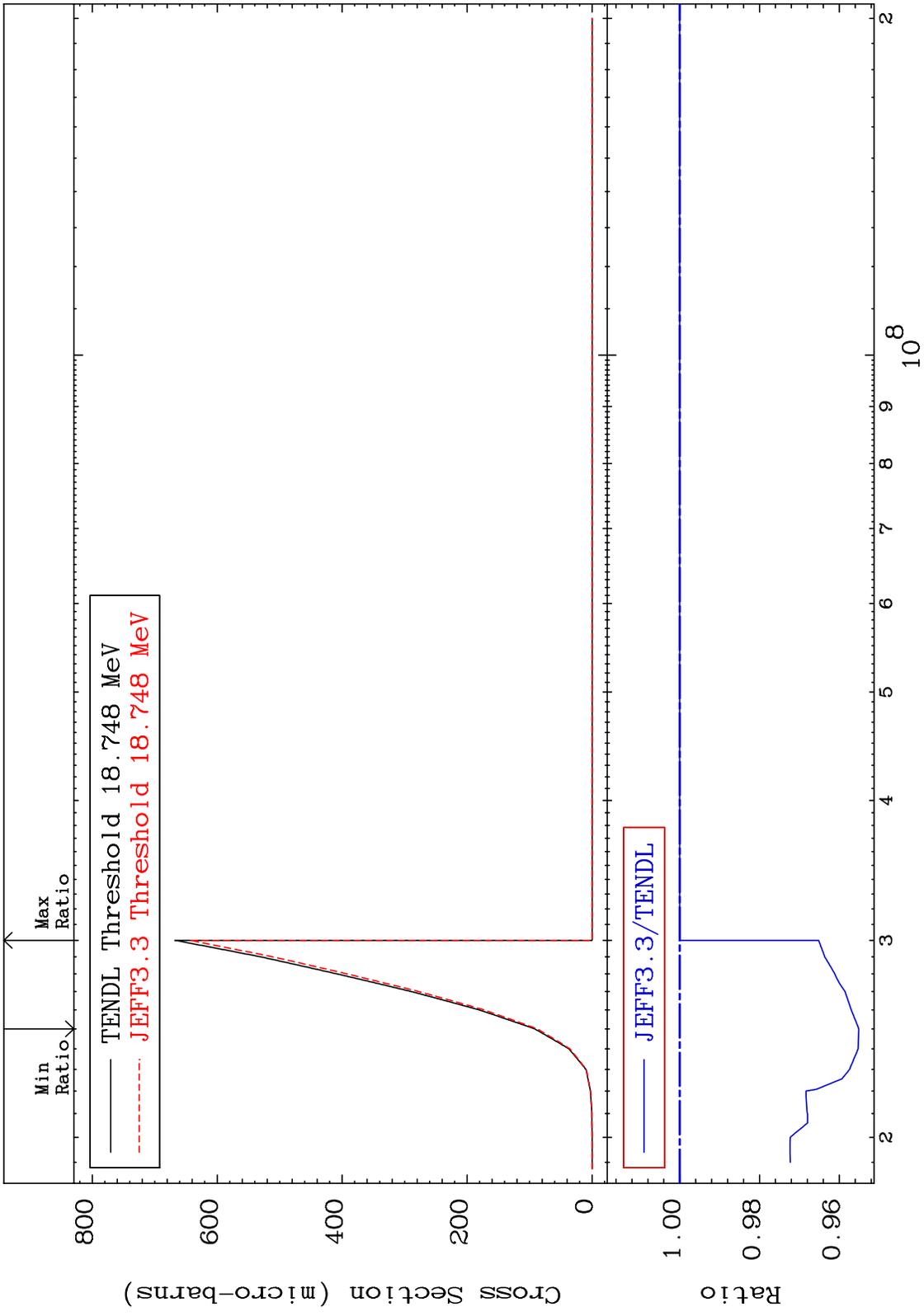


MAT 1631 (n,2p) 16-S -34  
 Cross Section -7.307 To 0.000 %

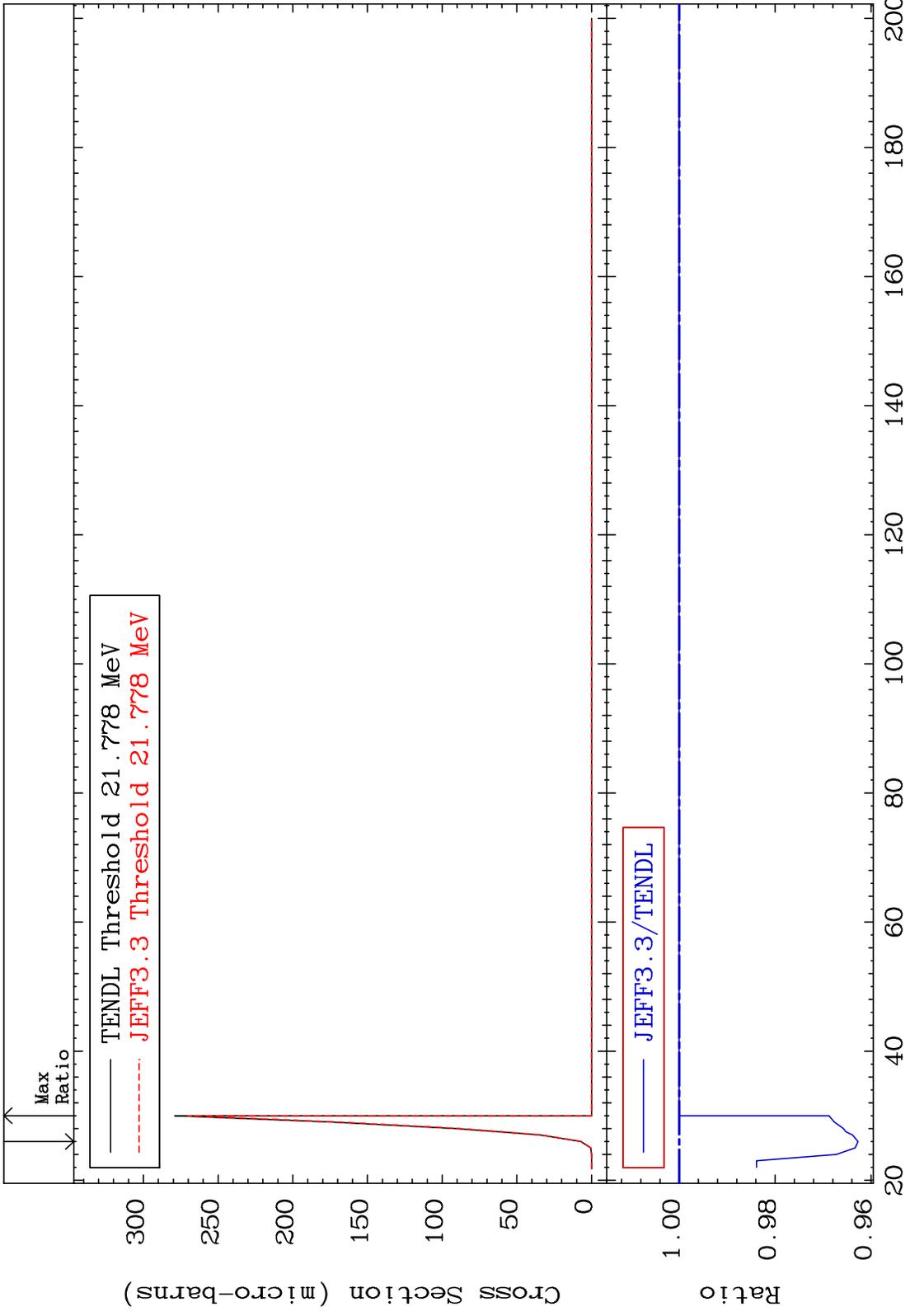


MAT 1631  $(n,p) \alpha$  16-S -34  
 Cross Section 0.000 To 237.7 %

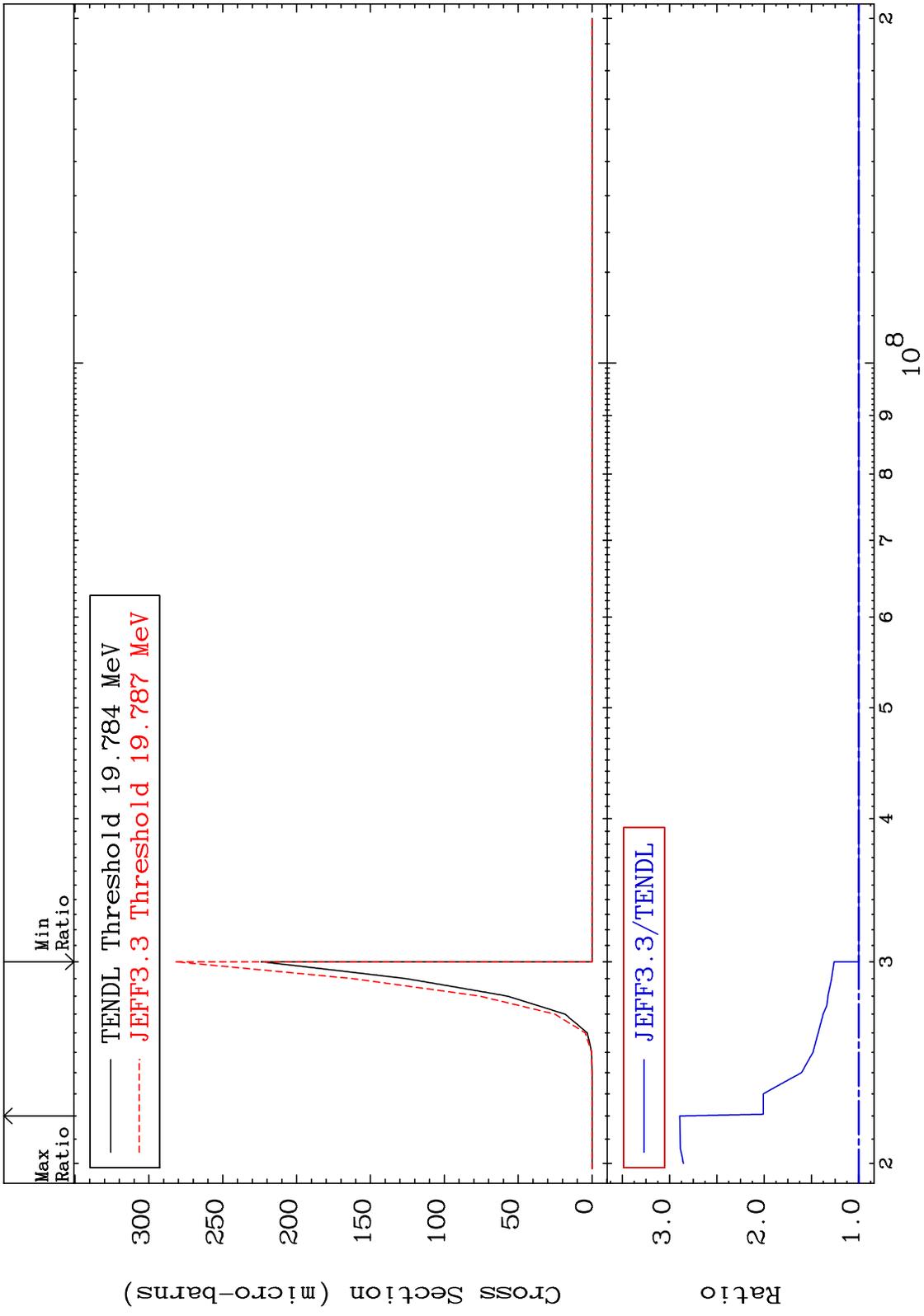




MAT 1631 (n,p) t 16-S -34  
Cross Section -3.727 To 0.000 %

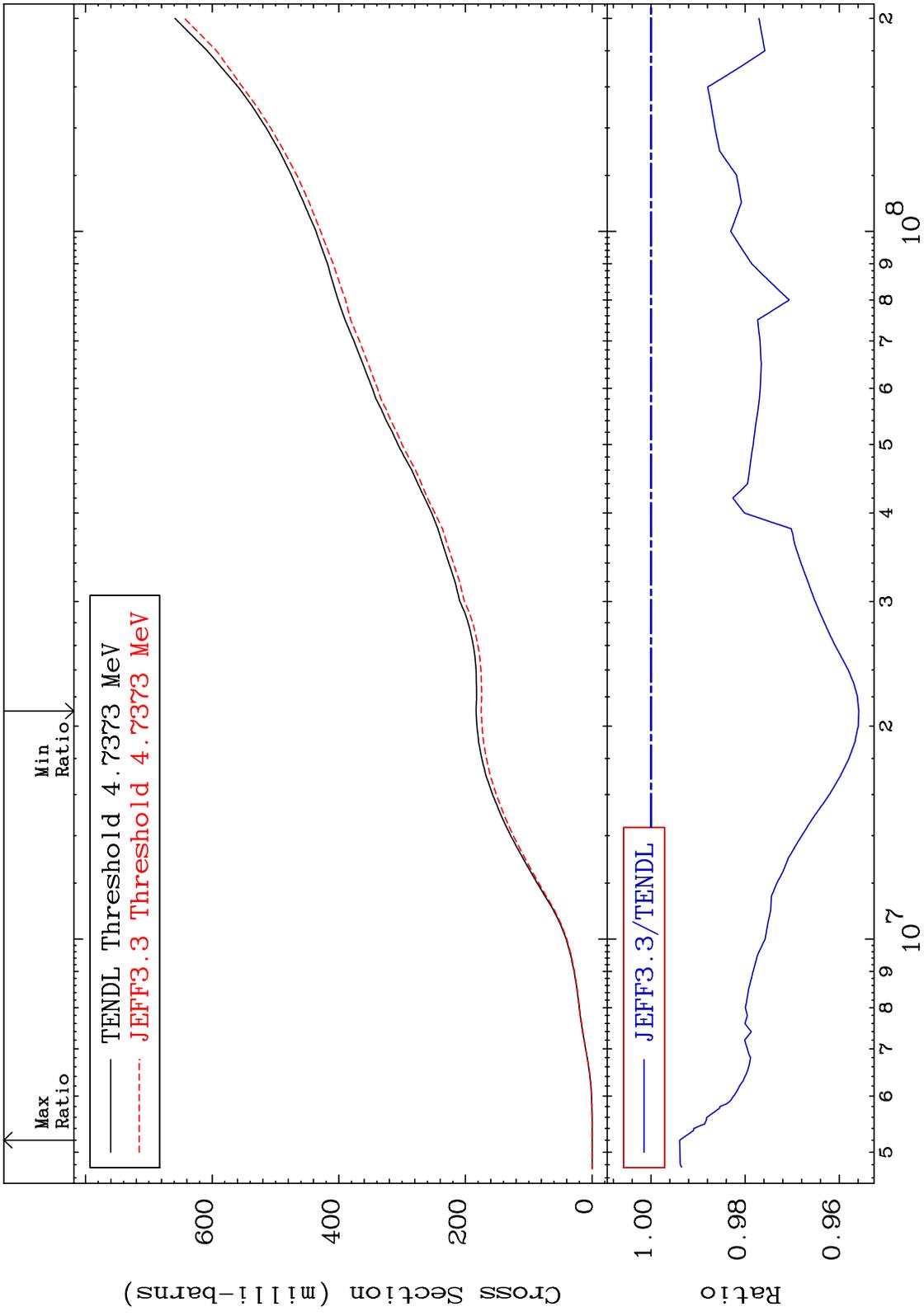


MAT 1631 (n,d)  $\alpha$  16-S -34  
Cross Section 0.000 To 189.2 %



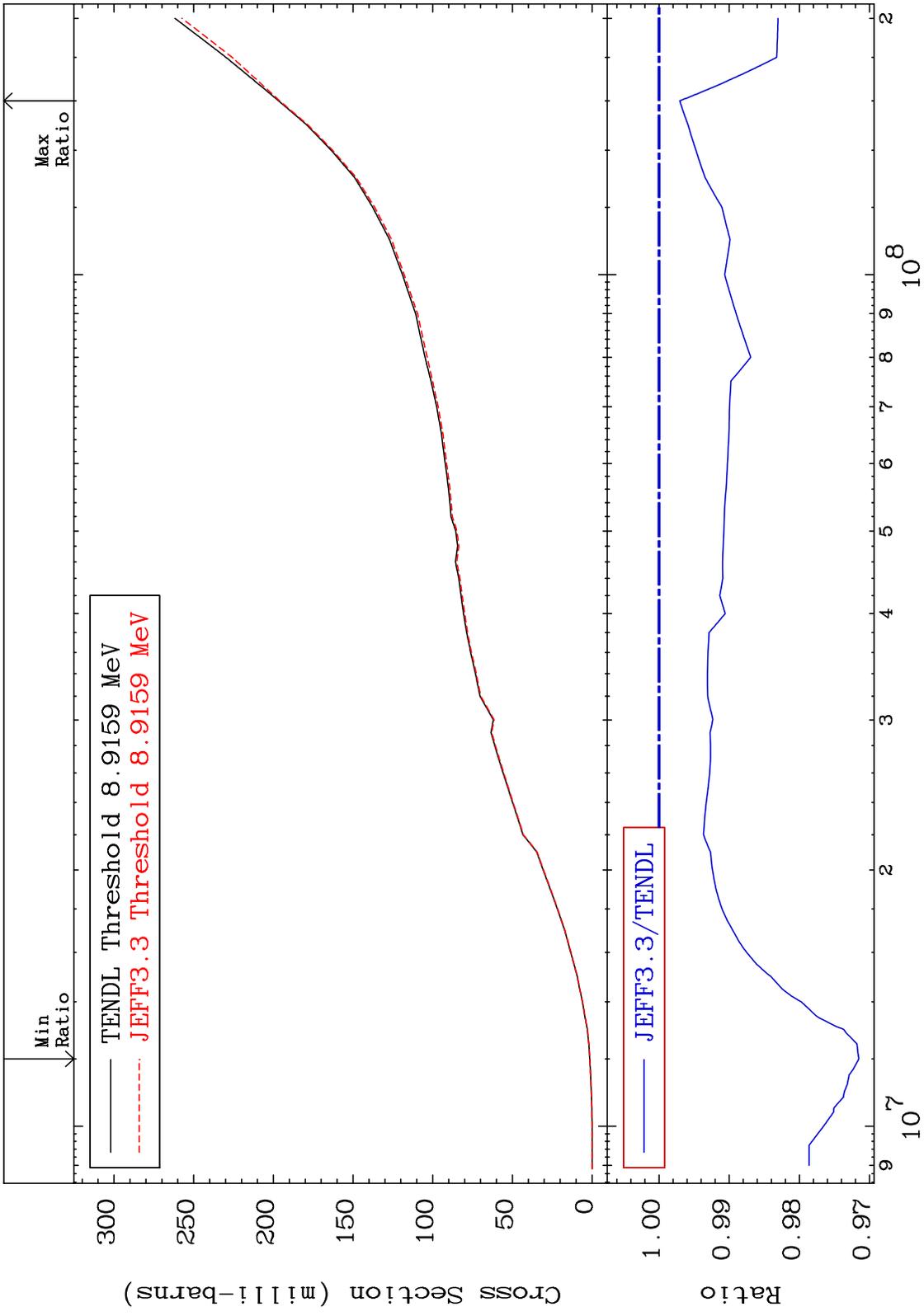
60 16-S -34

MAT 1631 Hydrogen Production Cross Section 16-S -34  
-4.414 To -0.610%



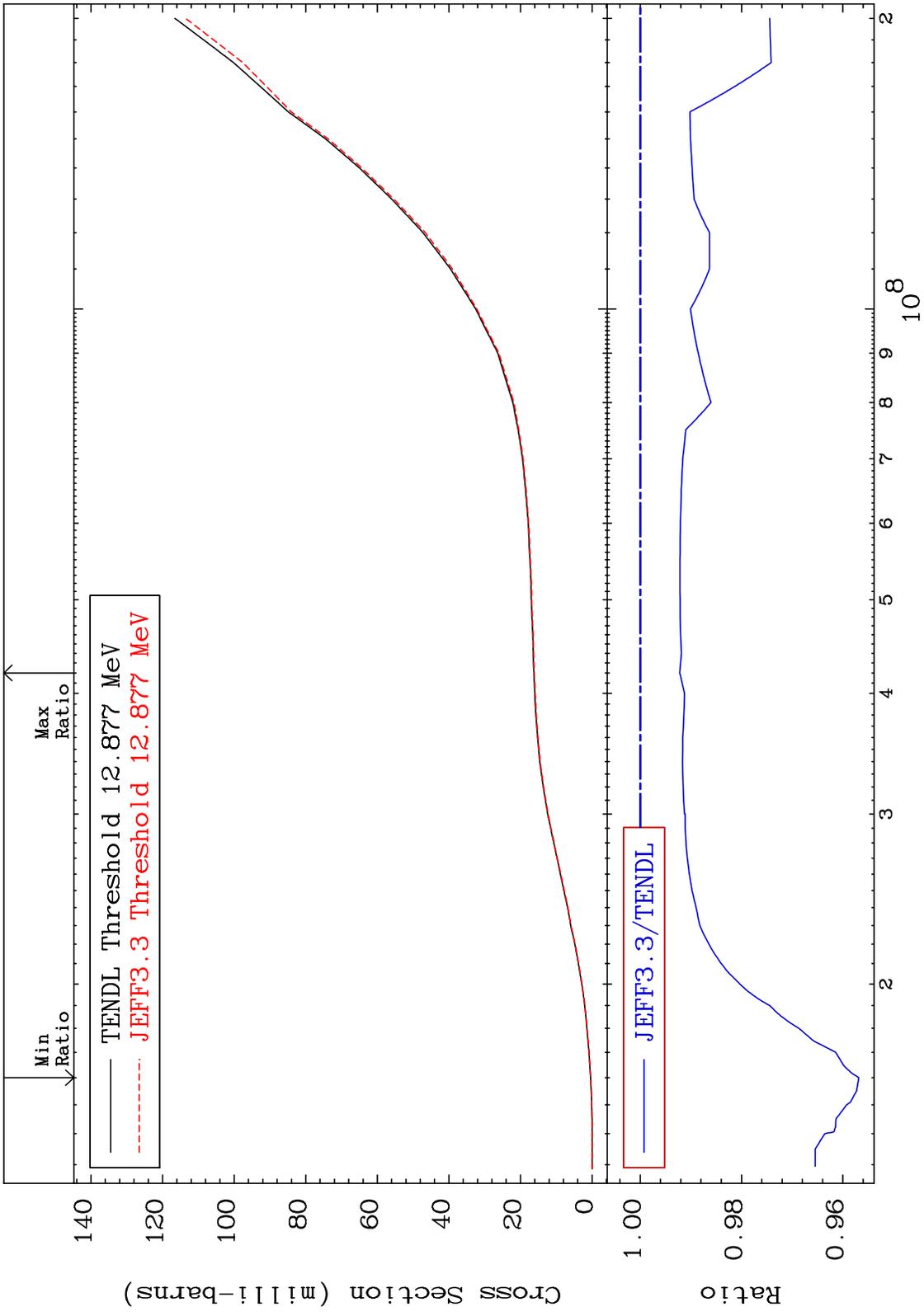
61 16-S -34

MAT 1631 Deuterium Production Cross Section 16-S -34  
-2.847 To -0.295%



62 16-S -34

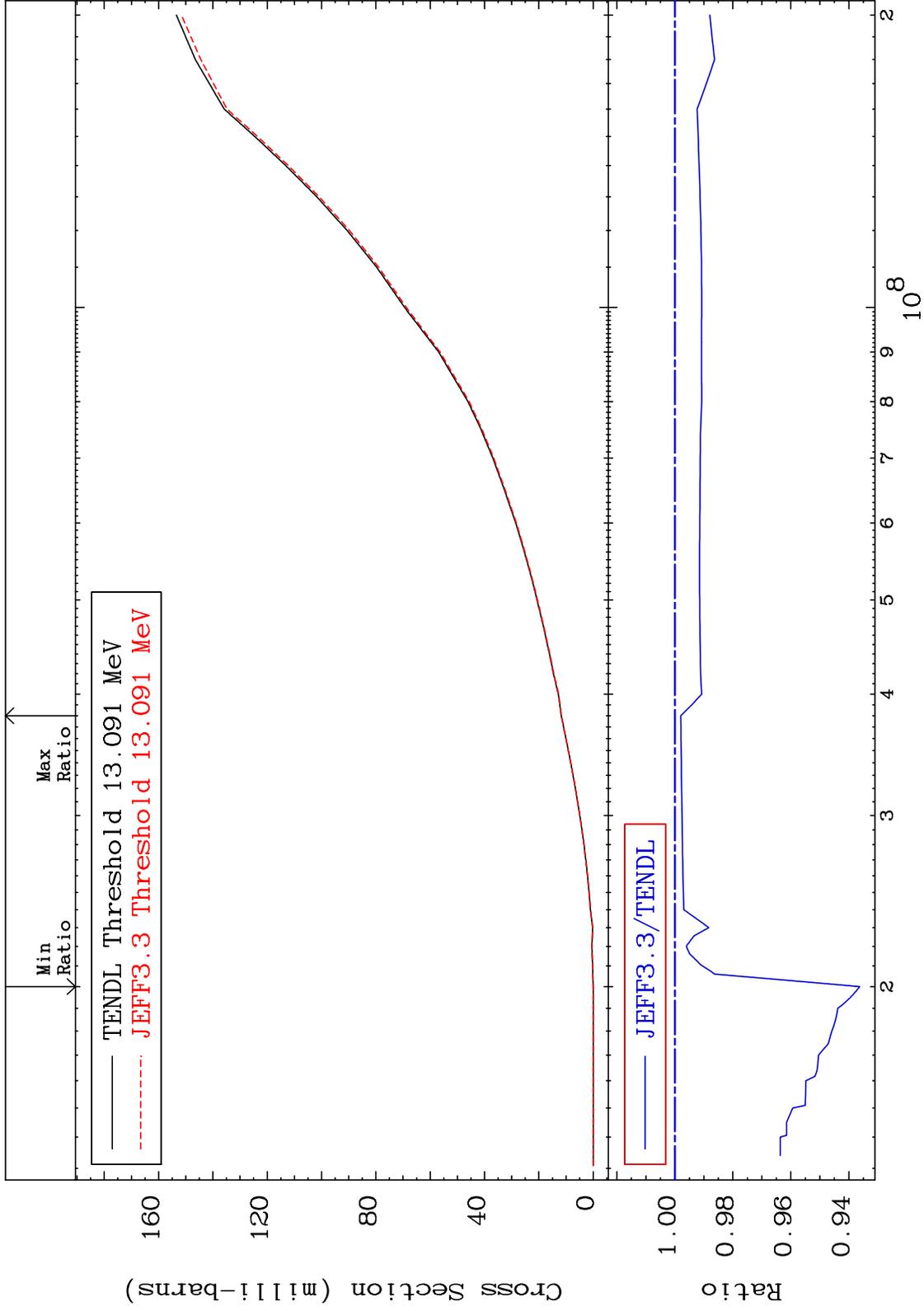
MAT 1631 Tritium Production Cross Section 16-S -34  
 -4.316 To -0.780%



MAT 1631

He-3 Production  
Cross Section

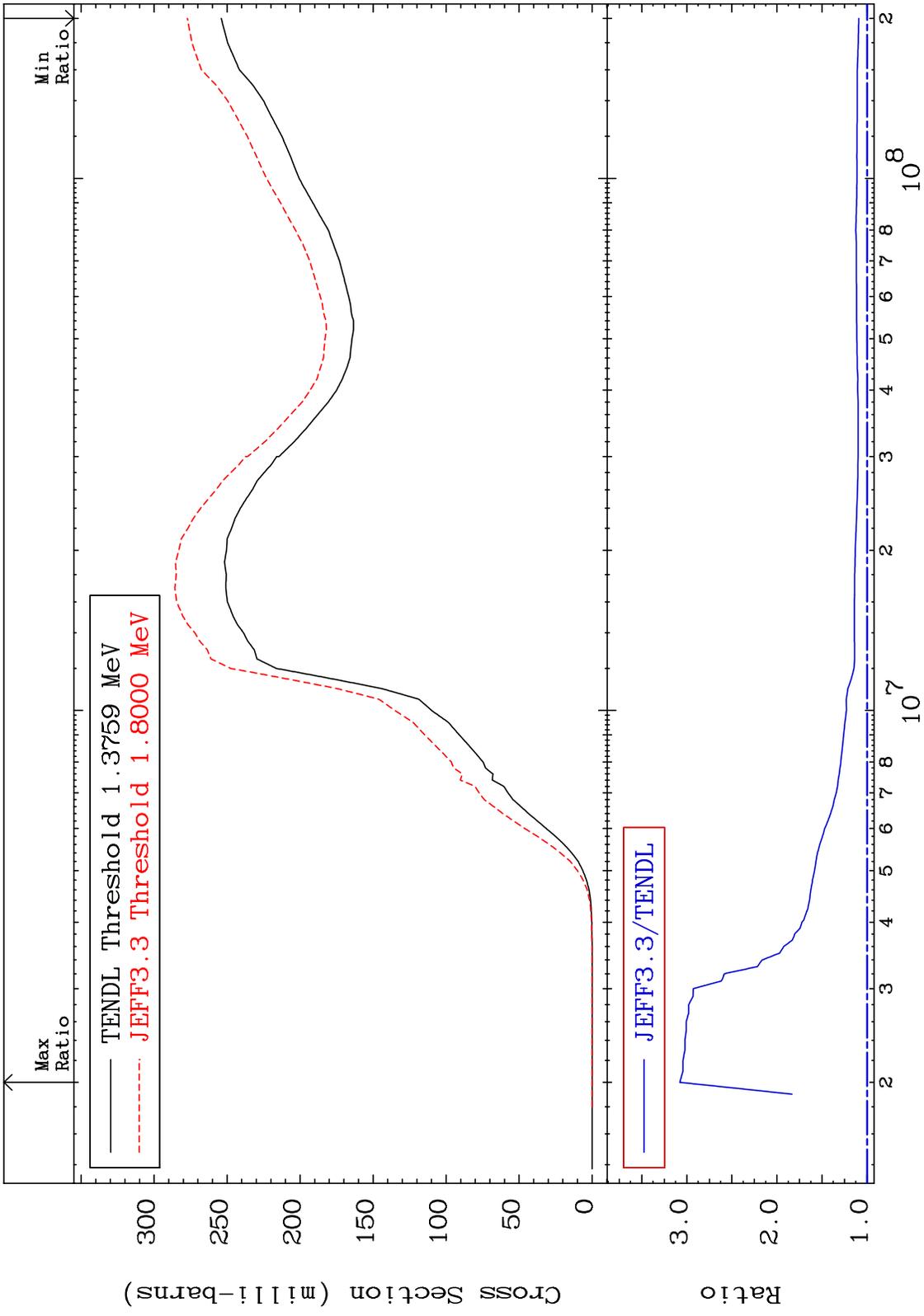
16-S -34  
-6.375 To -0.204%



64

16-S -34

MAT 1631 He-4 Production Cross Section 16-S -34 9.134 To 207.9 %

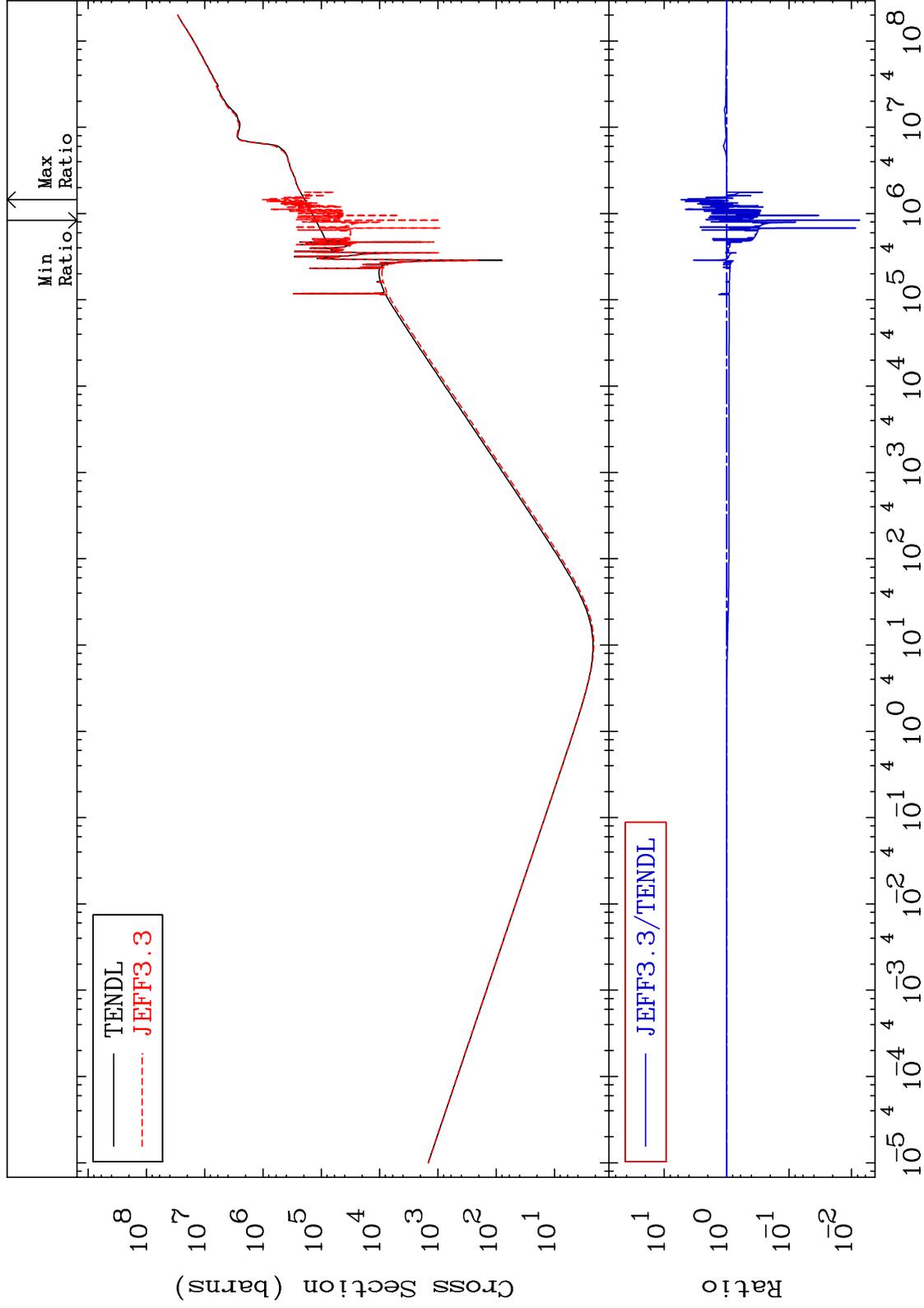


65 16-S -34

MAT 1631

Kerma total (eV-barns)  
Cross Section

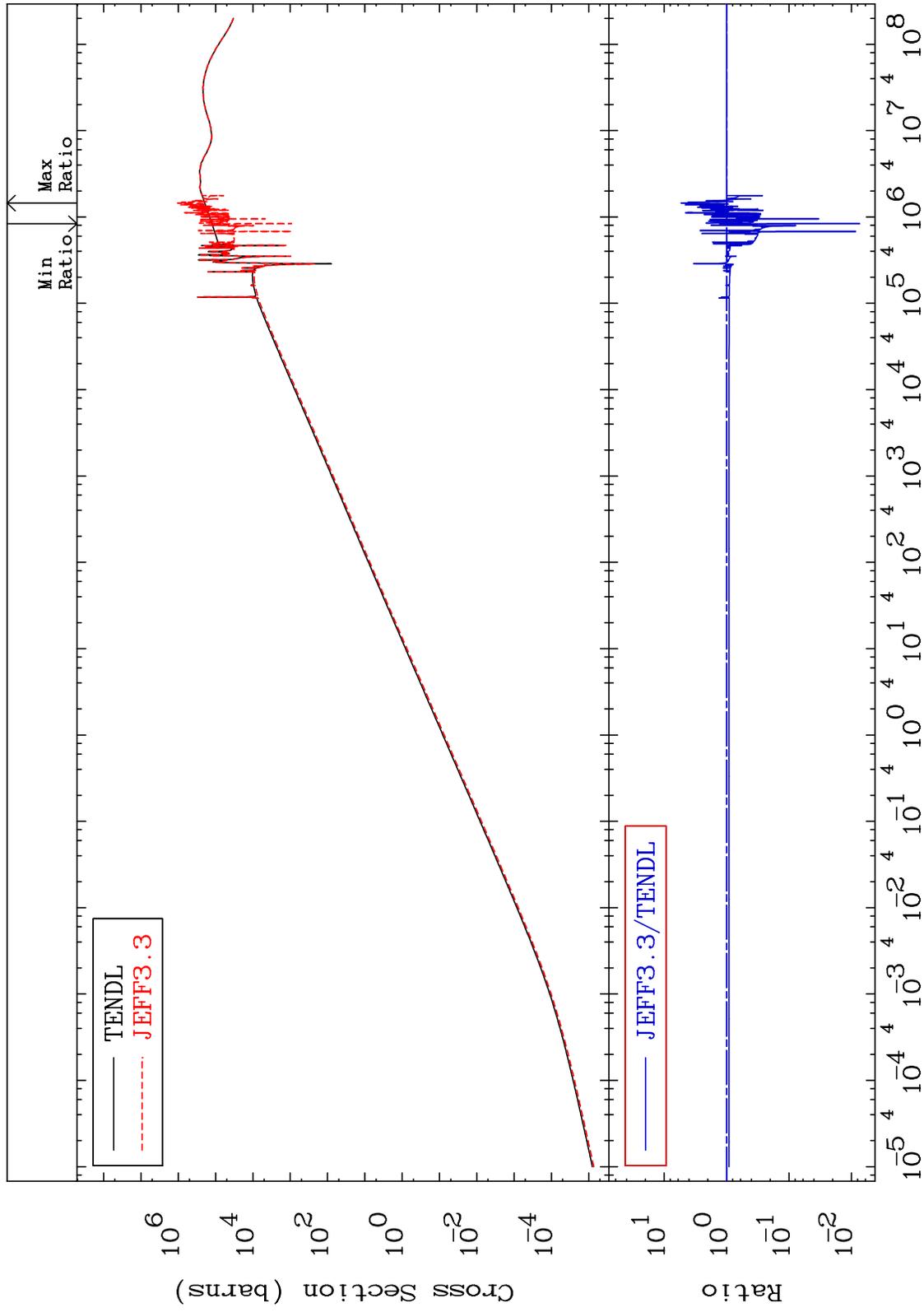
16-S -34  
-99.26 To 433.0 %



MAT 1631

Kerma elastic  
Cross Section

16-S -34  
-99.26 To 433.0 %



67

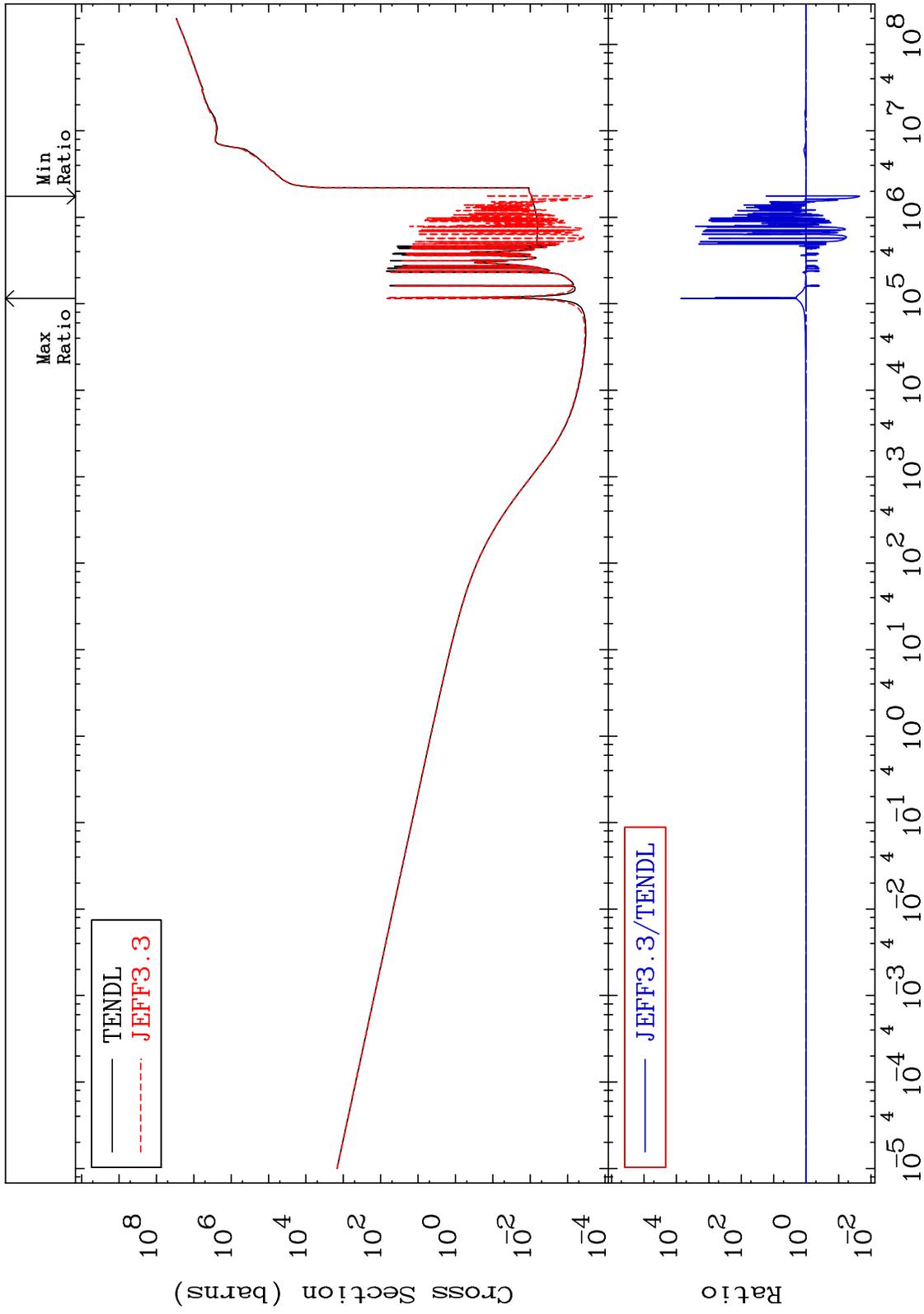
Incident Energy (eV)

16-S -34

MAT 1631

Kerma non-elastic (all but mt2)  
Cross Section

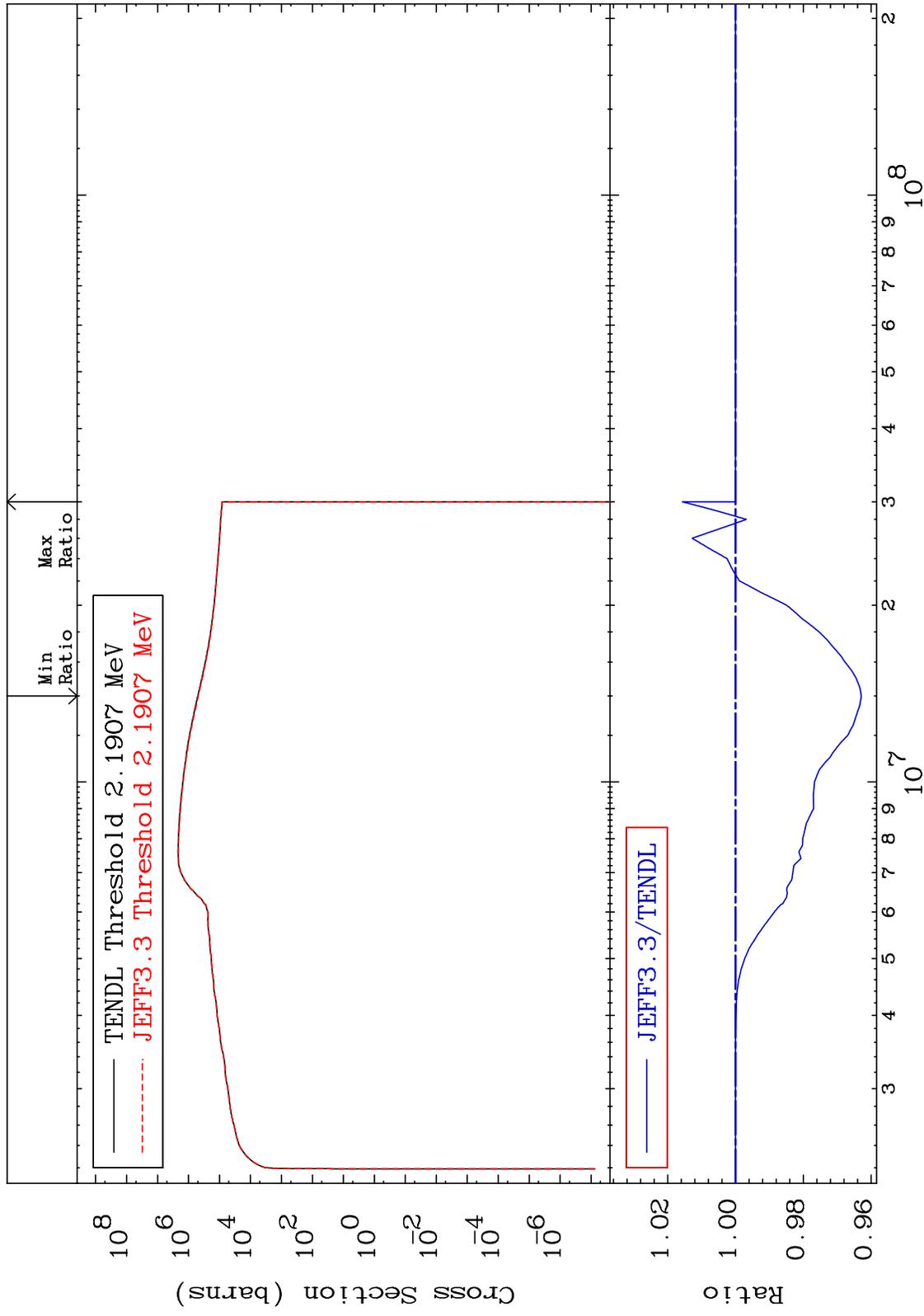
16-S -34  
-97.77 To 9999. %



MAT 1631

Kerma inelastic (mt51-91)  
Cross Section

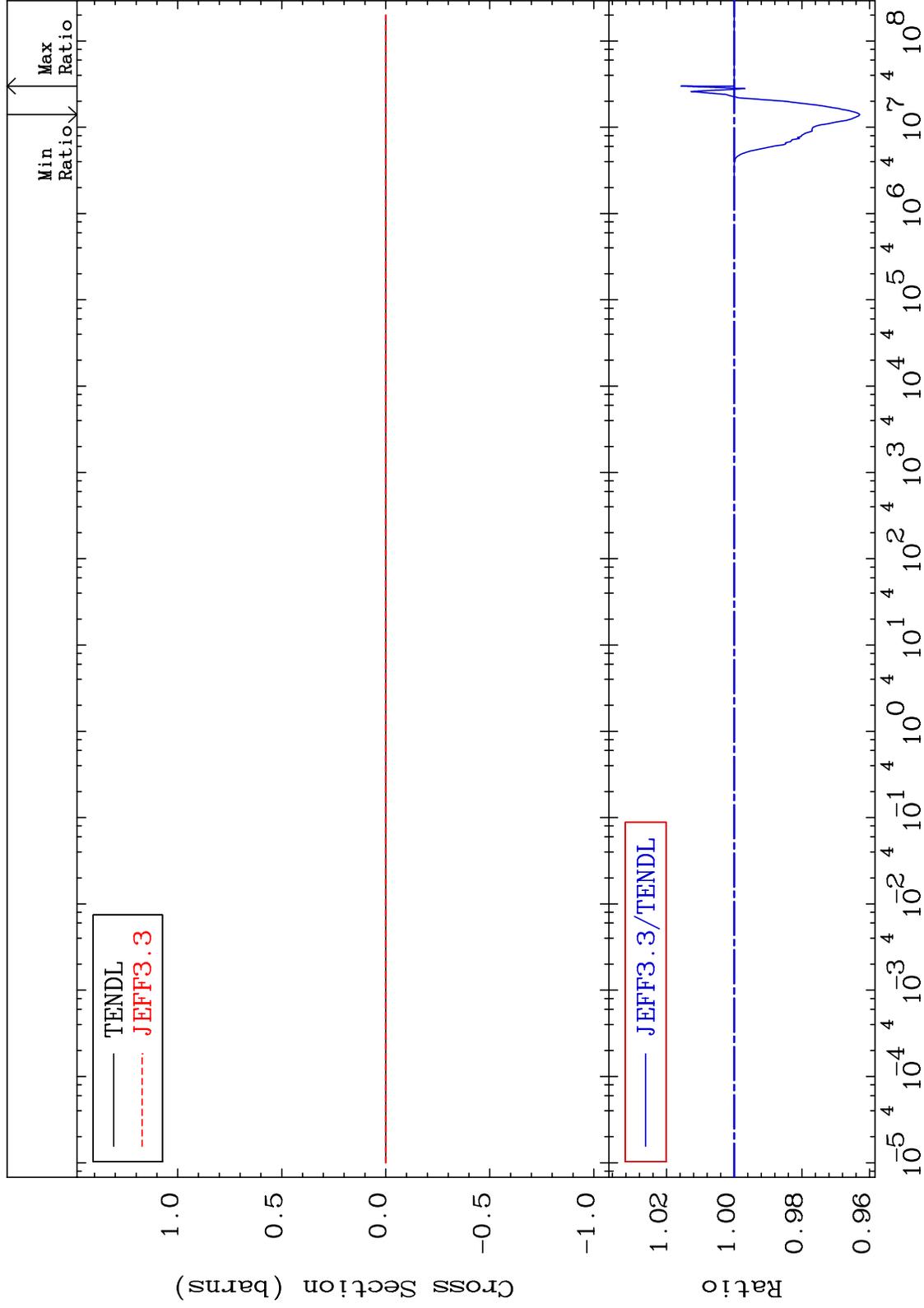
16-S -34  
-3.711 To 1.565 %



MAT 1631

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

16-S -34  
-3.711 To 1.565 %



70

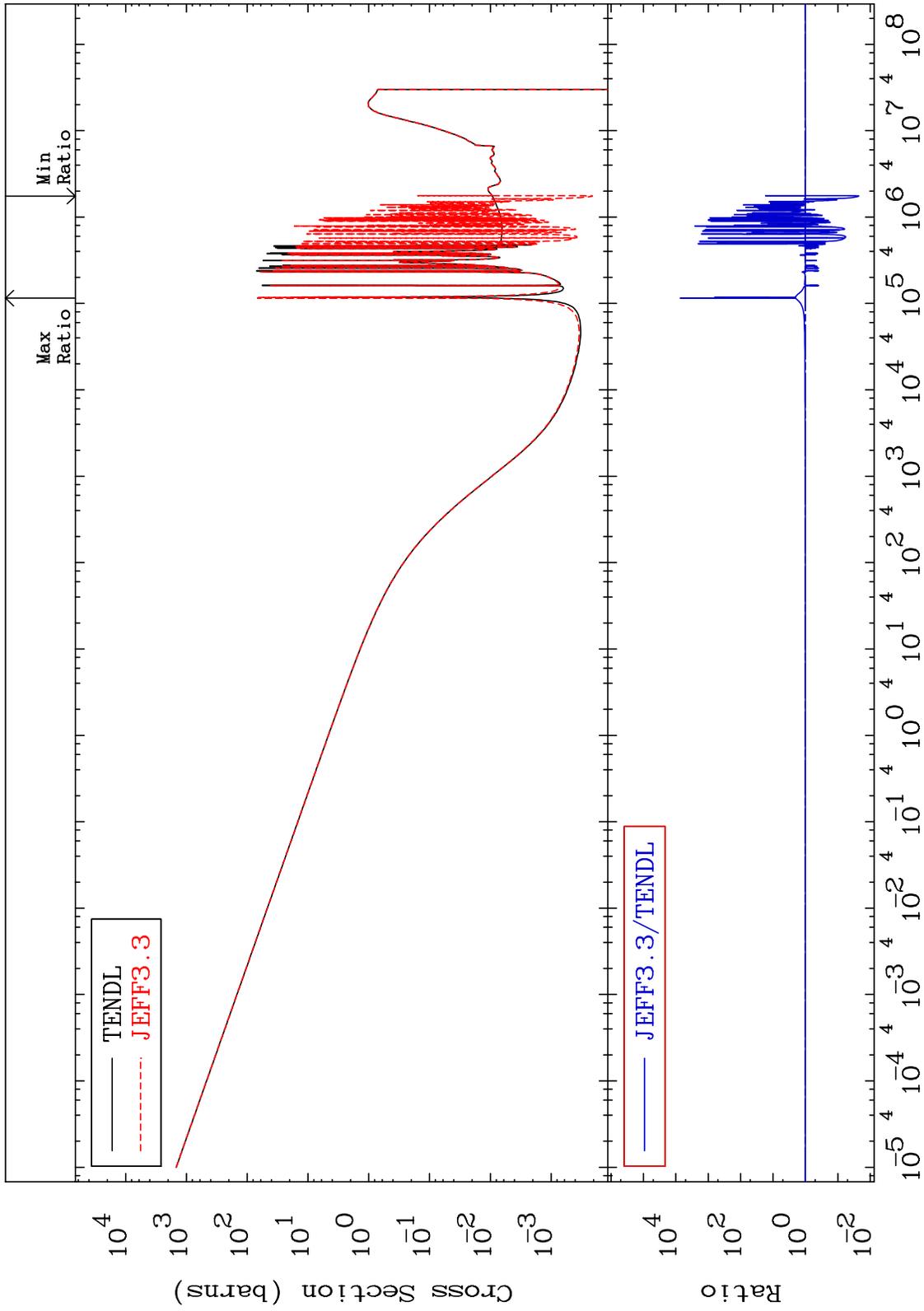
Incident Energy (eV)

16-S -34

MAT 1631

Kerma capture (mt102)  
Cross Section

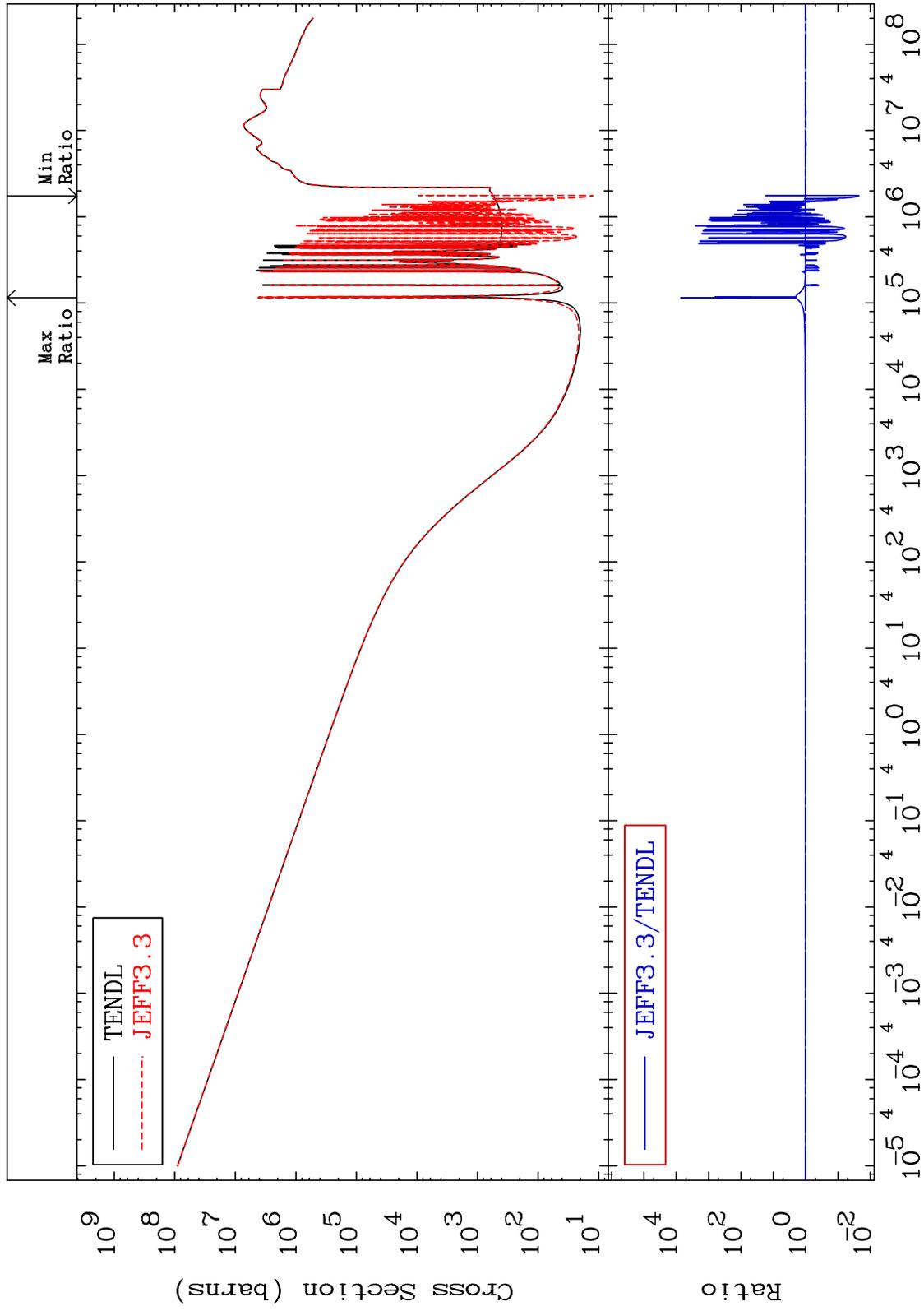
16-S -34  
-97.77 To 9999. %



MAT 1631

Total photon (eV-barns)  
Cross Section

16-S -34  
-97.77 To 9999. %



72

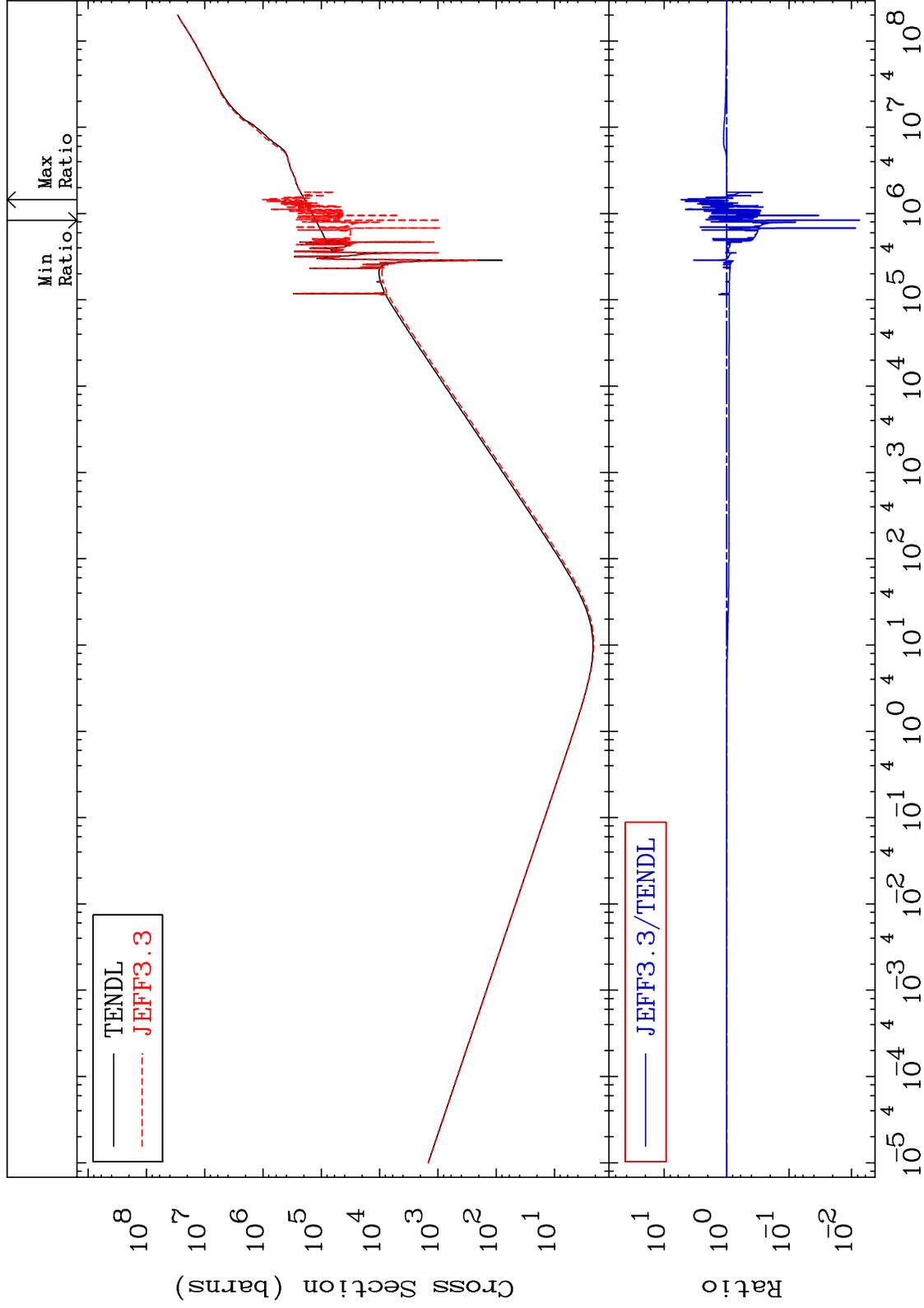
Incident Energy (eV)

16-S -34

MAT 1631

Total kinematic kerma (high limit)  
Cross Section

16-S -34  
-99.26 To 433.0 %



73

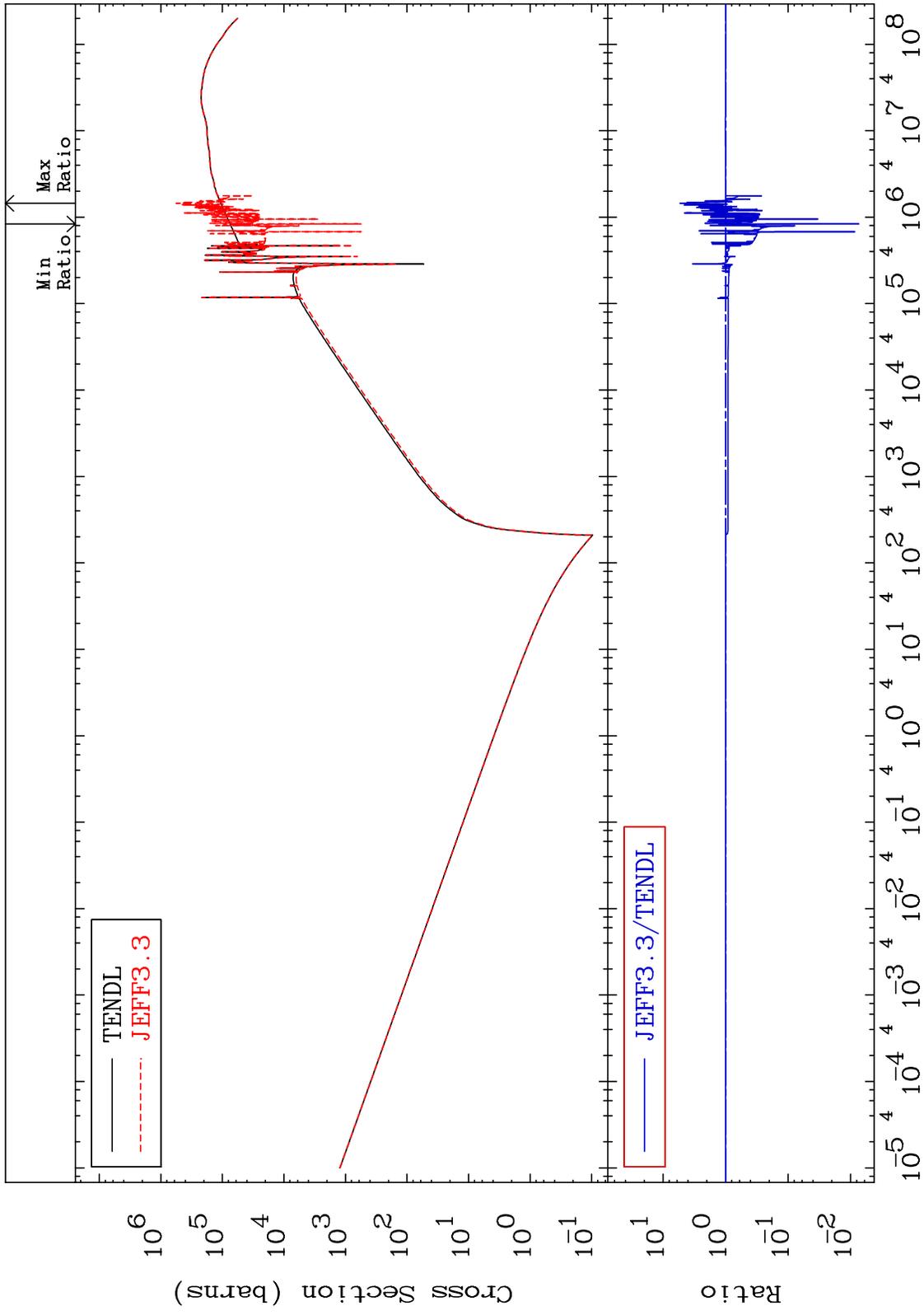
Incident Energy (eV)

16-S -34

MAT 1631

Dpa total (eV-barns)  
Cross Section

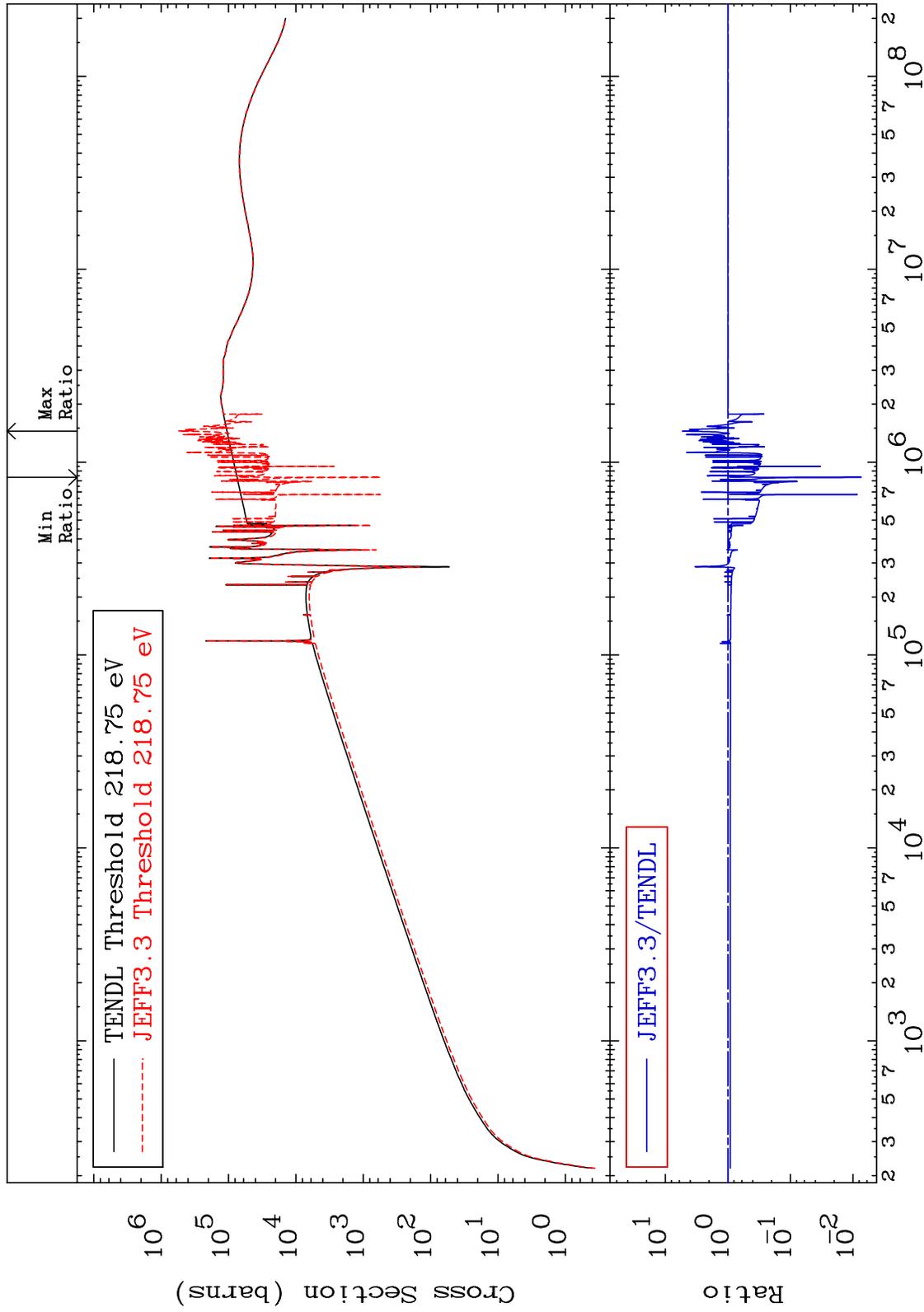
16-S -34  
-99.26 To 433.0 %



MAT 1631

Dpa elastic (mt2)  
Cross Section

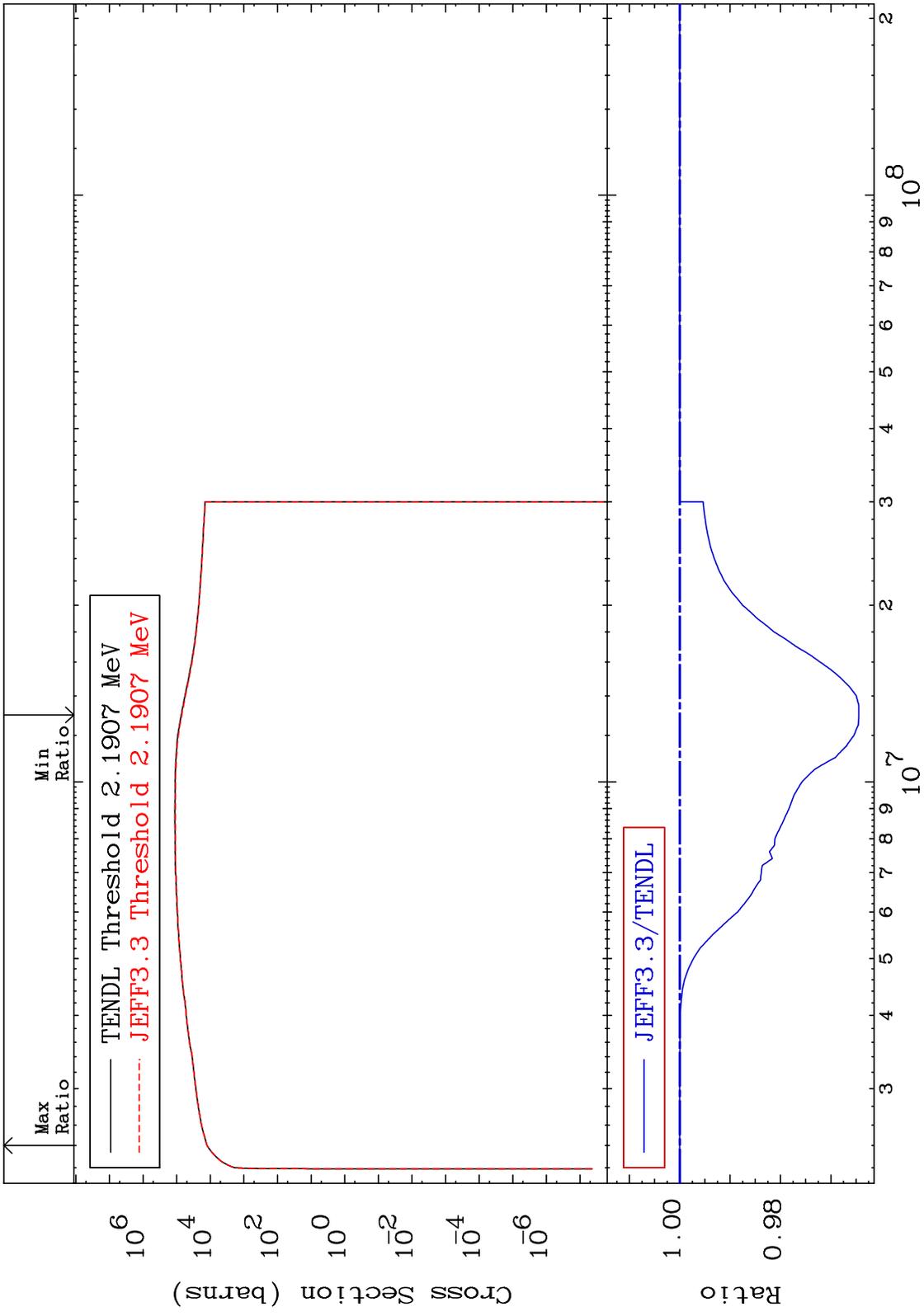
16-S -34  
-99.26 To 433.0 %



75

Incident Energy (eV)

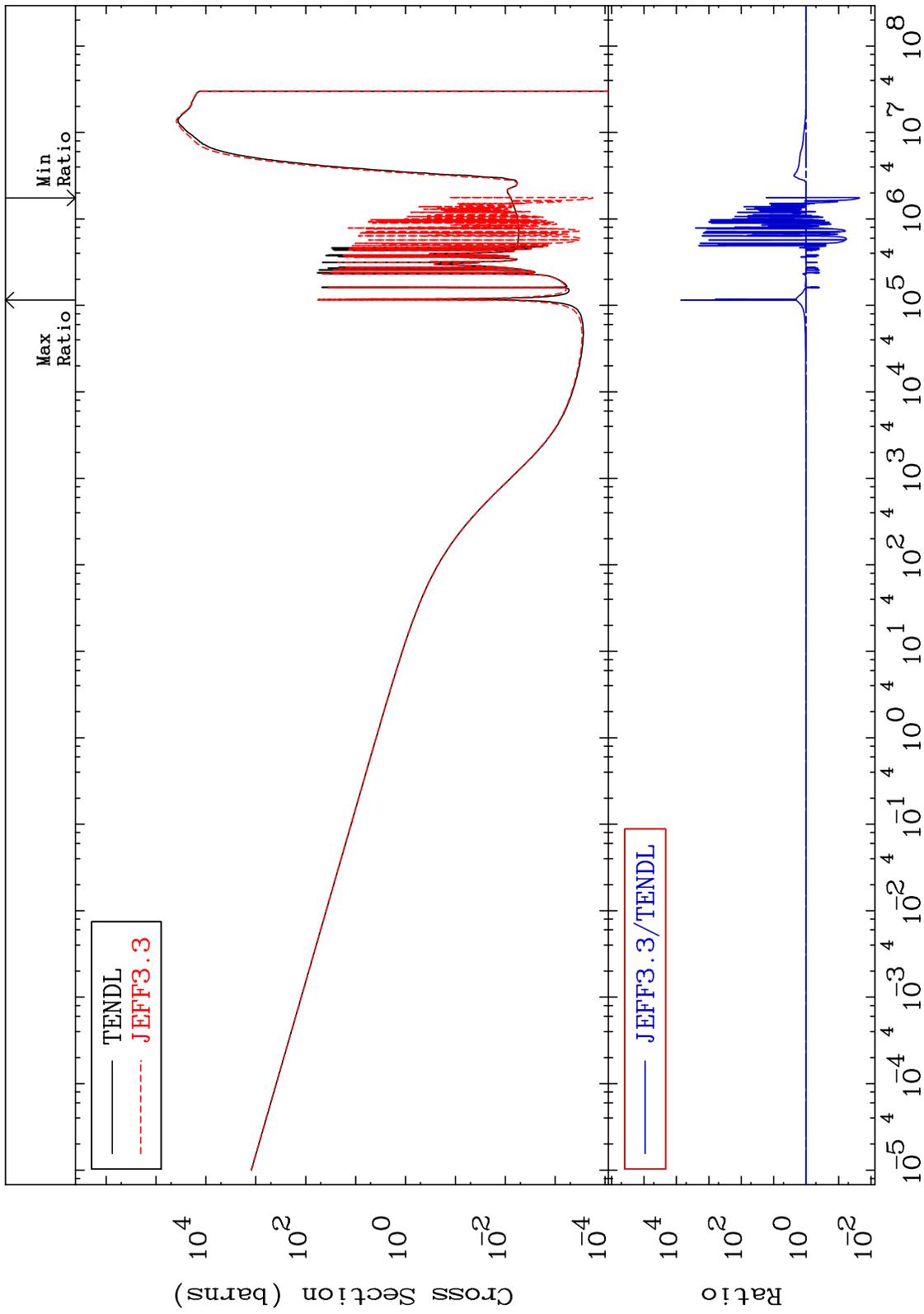
16-S -34



MAT 1631

Dpa disappearance (mt102 -120)  
Cross Section

16-S -34  
-97.77 To 9999. %



77

Incident Energy (eV)

16-S -34