

Program Complot
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

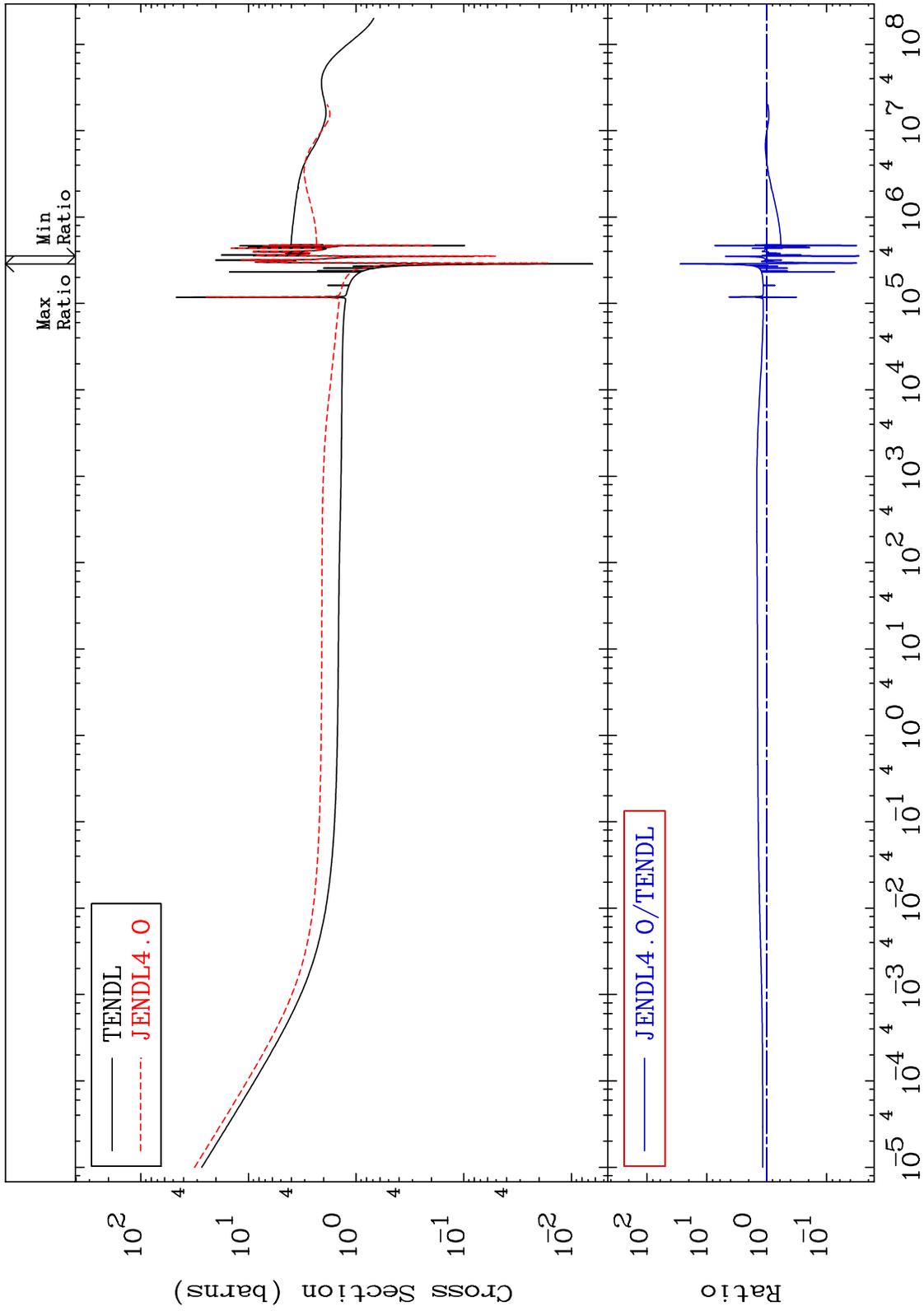
U.S.A.

Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 1631 Total Cross Section 16-S -34 -97.11 To 2682. %



16-S -34

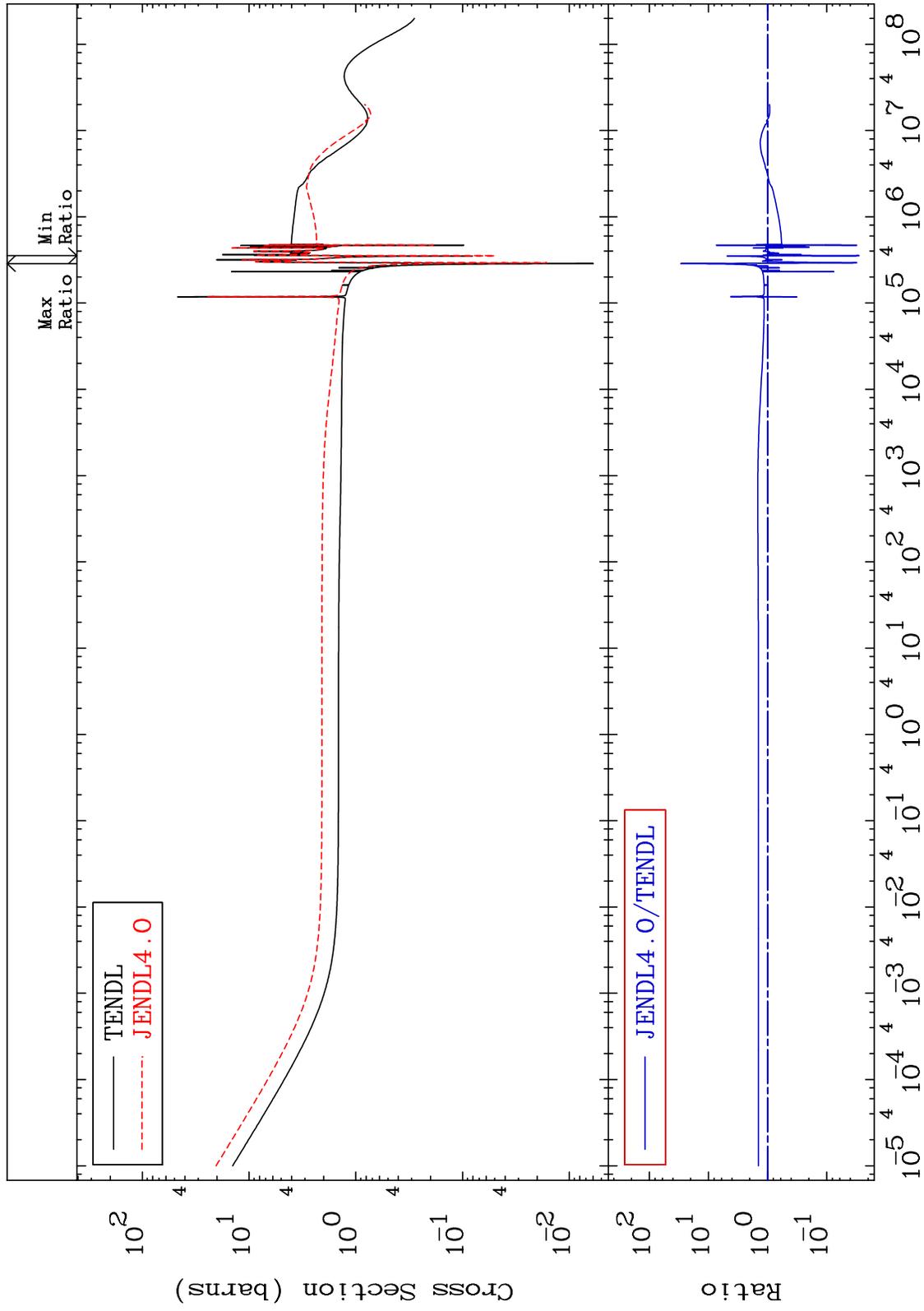
Incident Energy (eV)

1

MAT 1631

Elastic
Cross Section

16-S -34
-97.16 To 2857. %



2

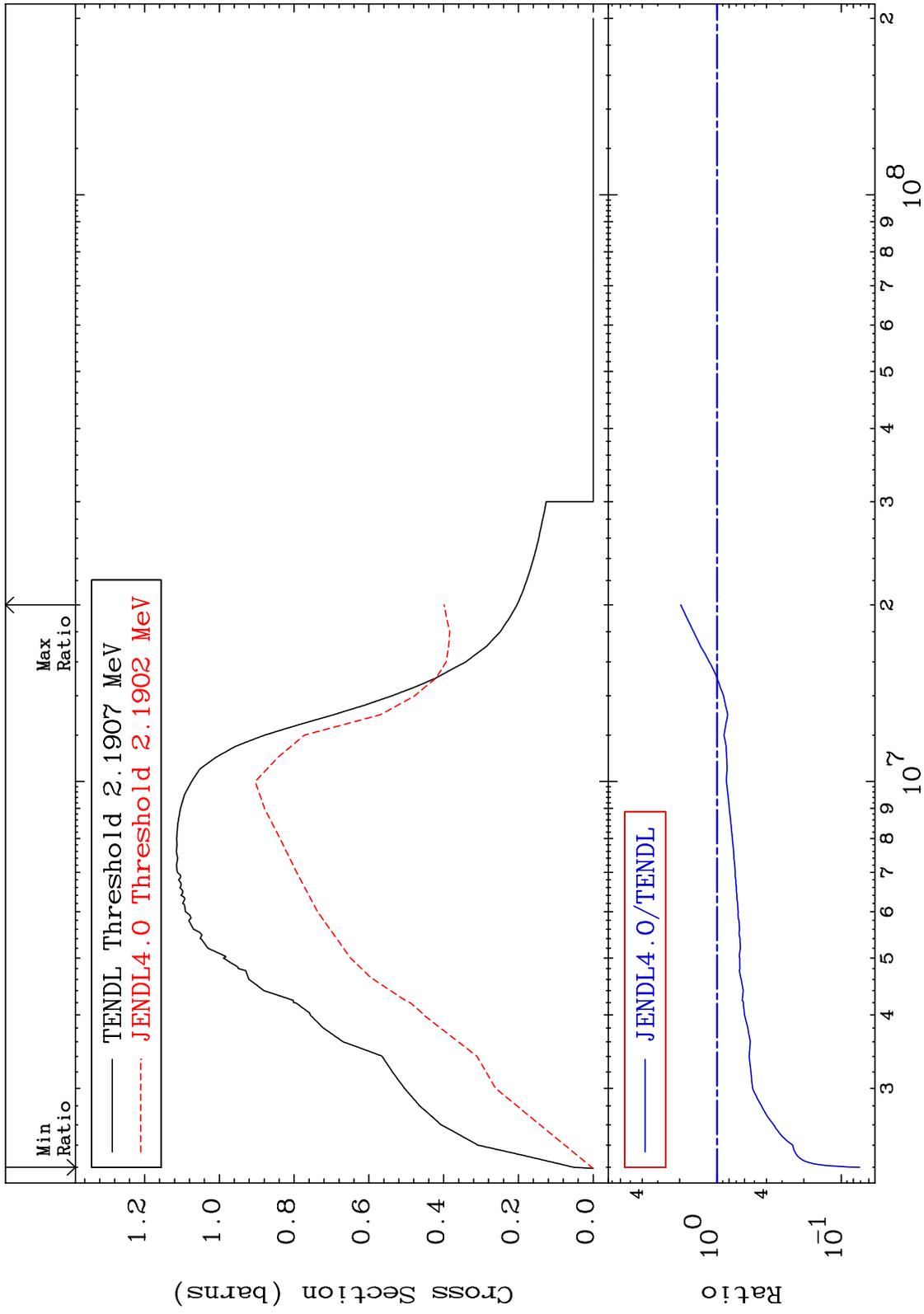
Incident Energy (eV)

16-S -34

MAT 1631

Inelastic
Cross Section

16-S -34
-92.88 To 95.61 %

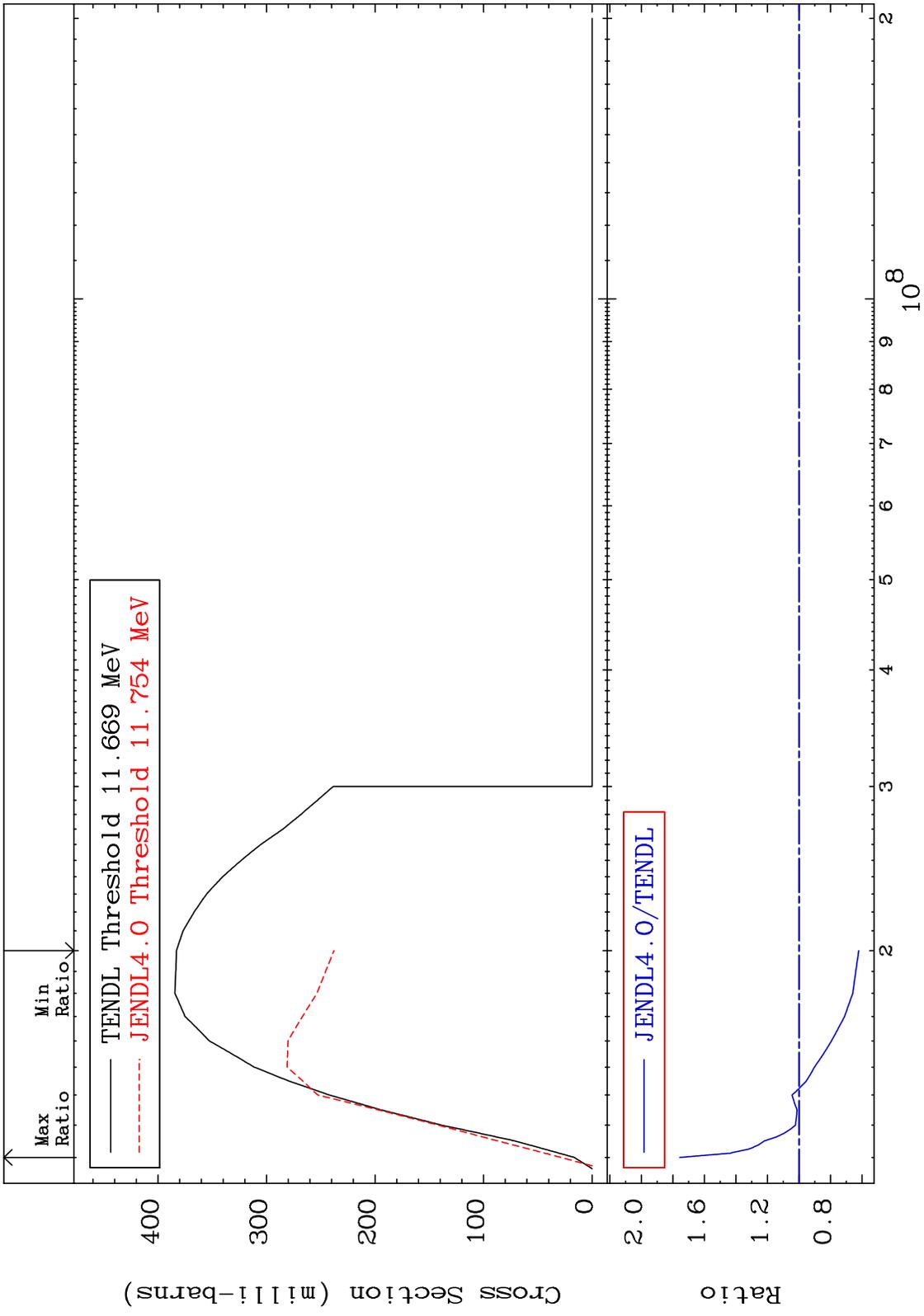


3

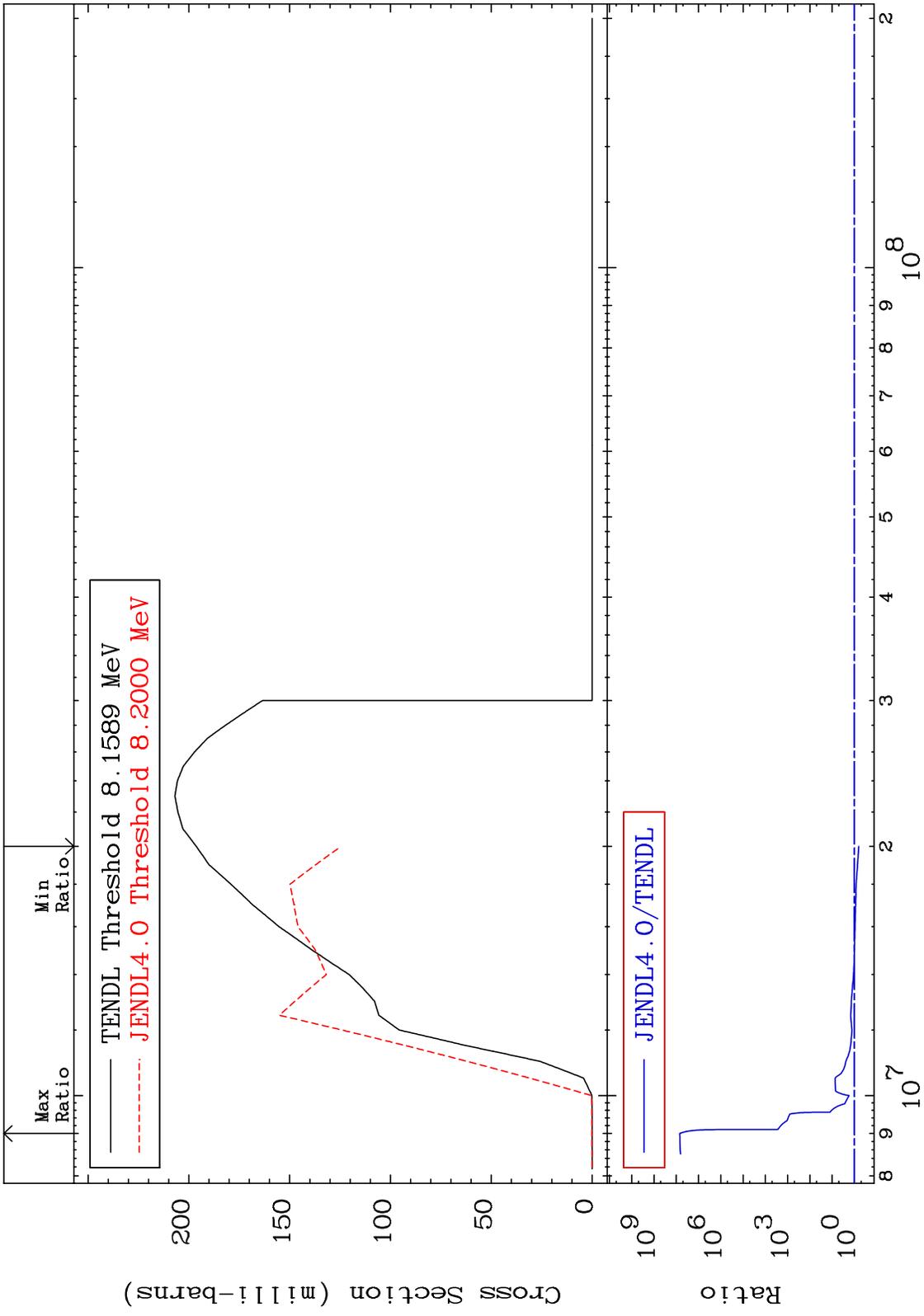
Incident Energy (eV)

16-S -34

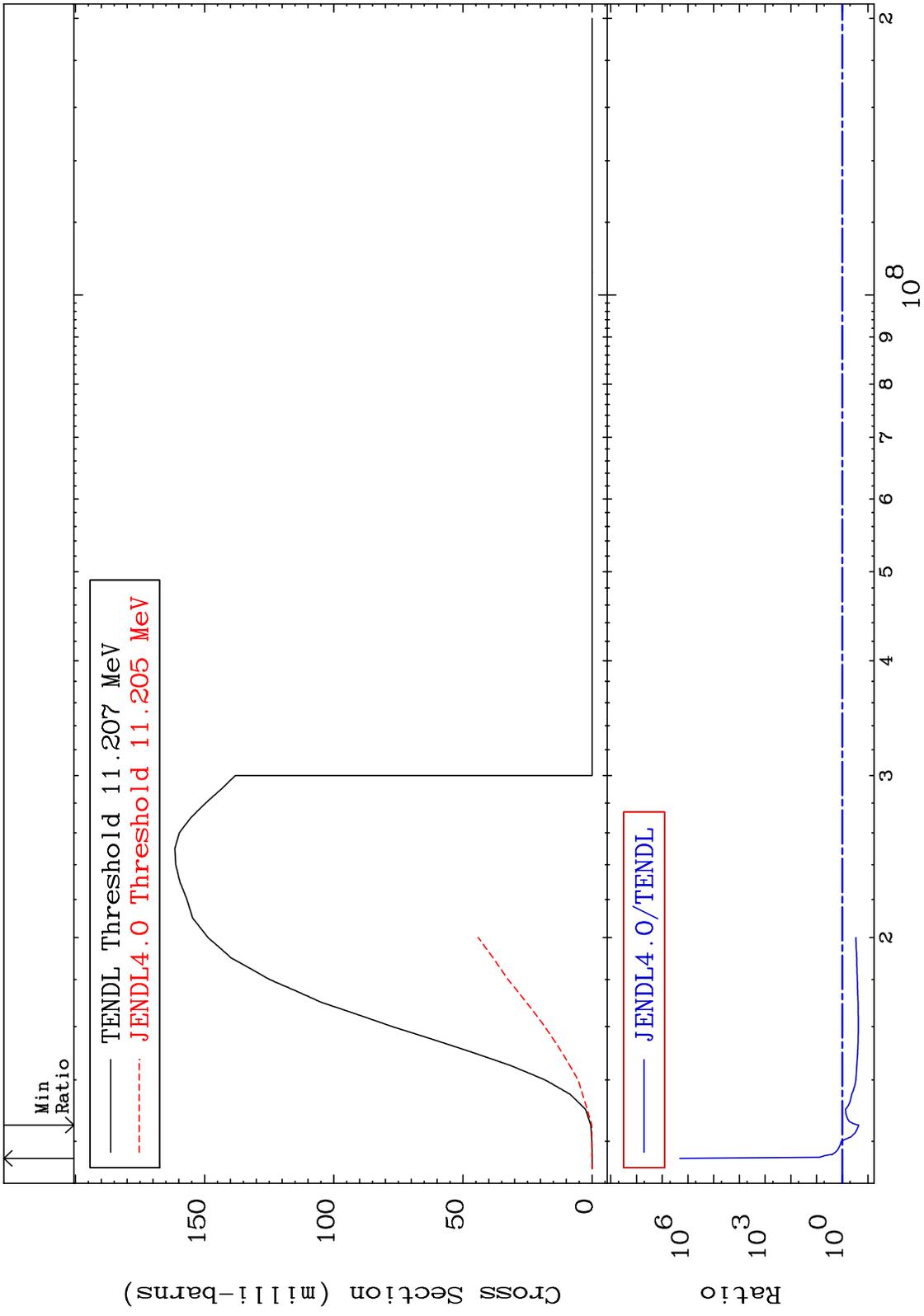
MAT 1631 $(n,2n)$ Cross Section 16-S -34
 -37.91 To 75.66 %



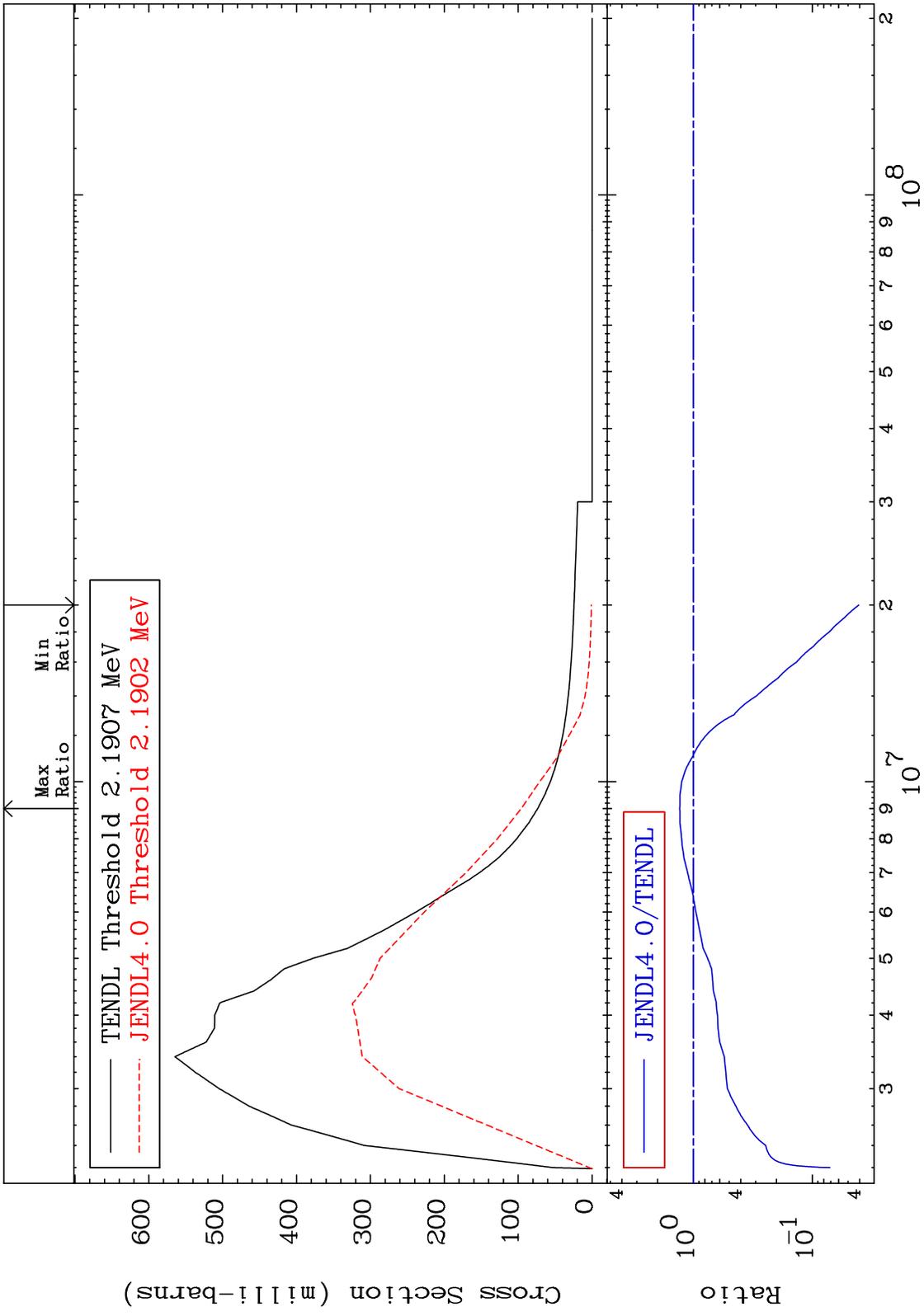
MAT 1631 $(n, n') \alpha$ 16-S -34
 Cross Section -36.63 To 9999. %



16-S -34



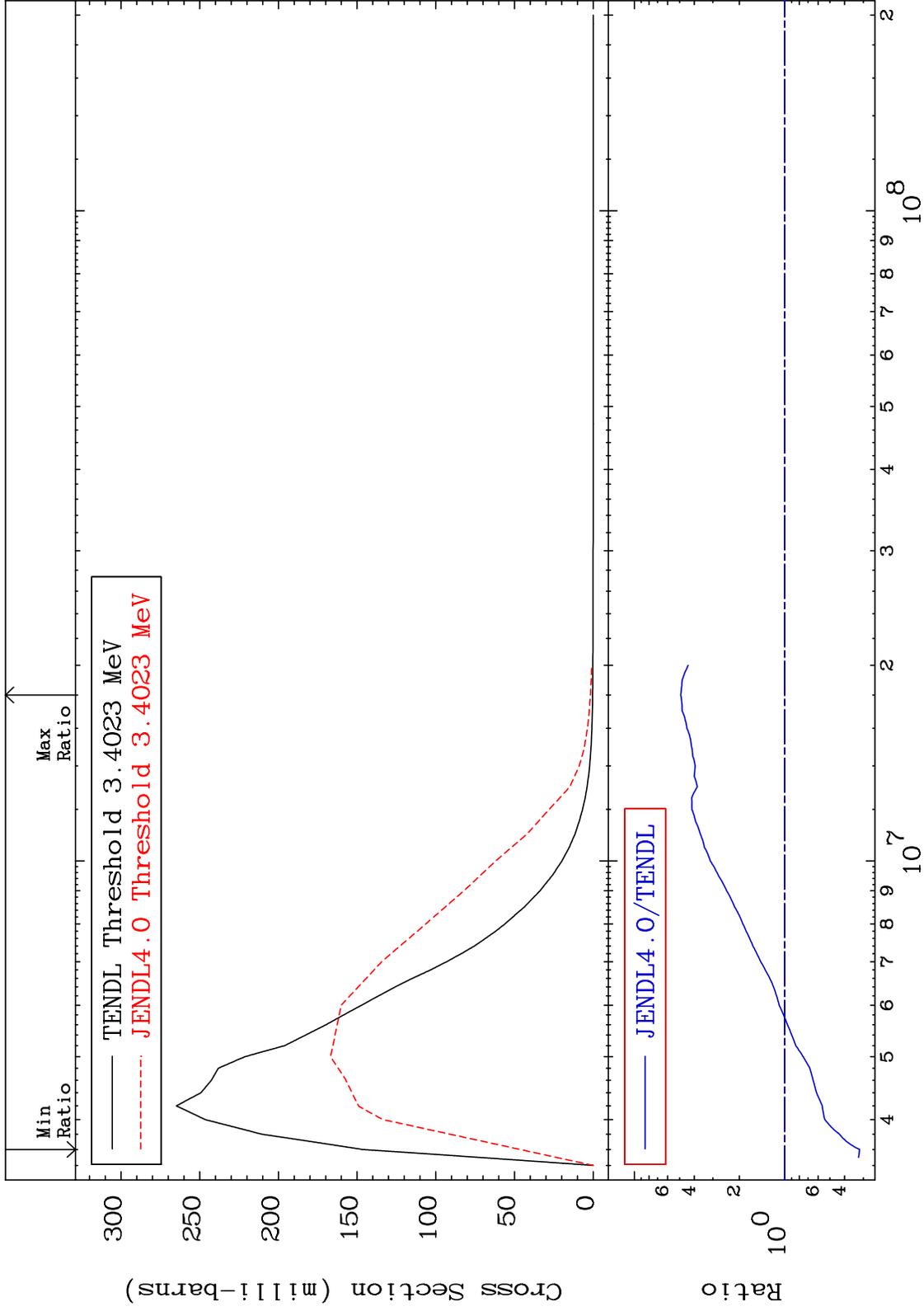
MAT 1631 MT= 51 (n,n') Level Cross Section -95.94 To 30.29 % 16-S -34



MAT 1631

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

16-S -34
-68.28 To 391.0 %



8

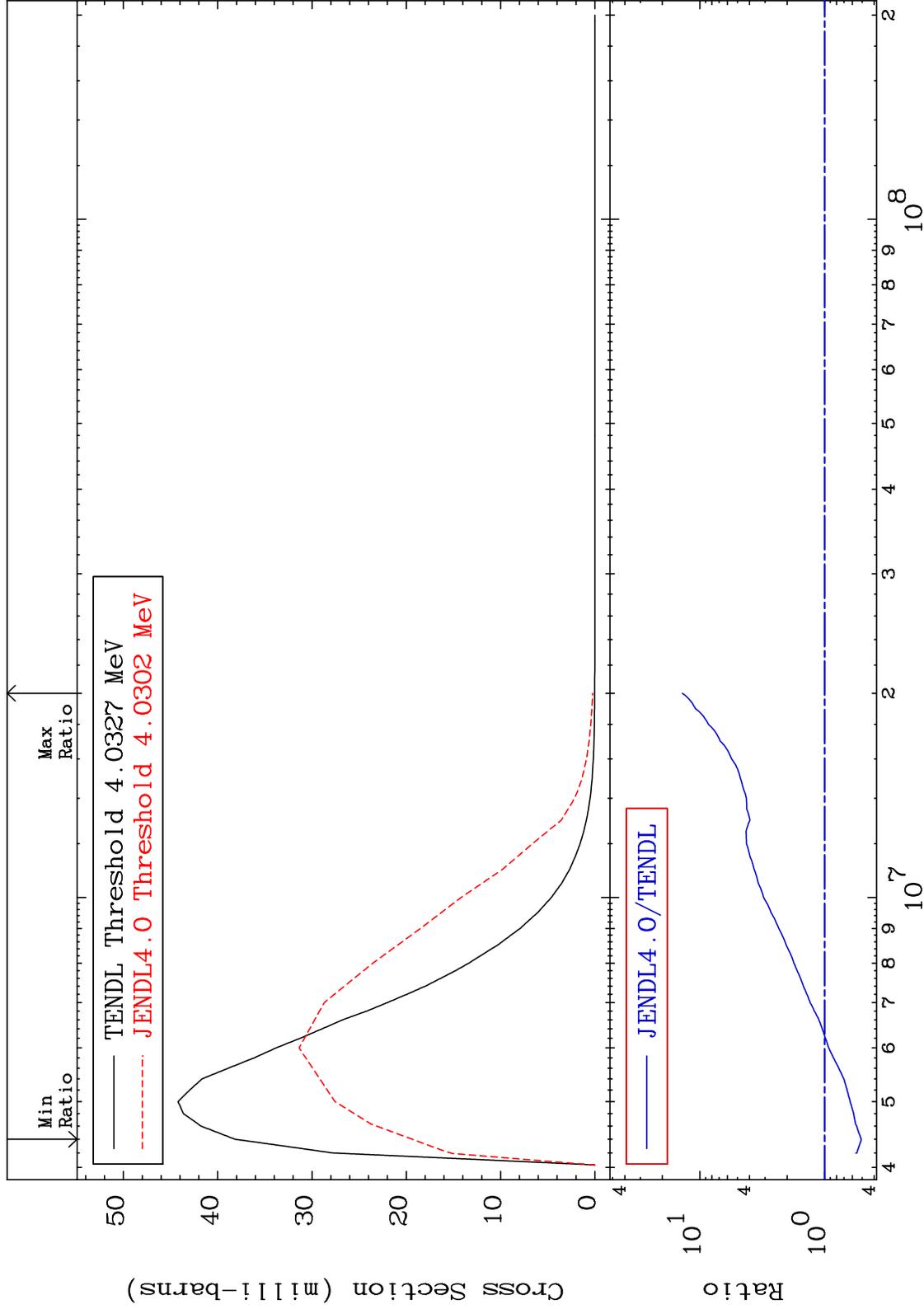
Incident Energy (eV)

16-S -34

MAT 1631

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

16-S -34
-49.26 To 1279. %

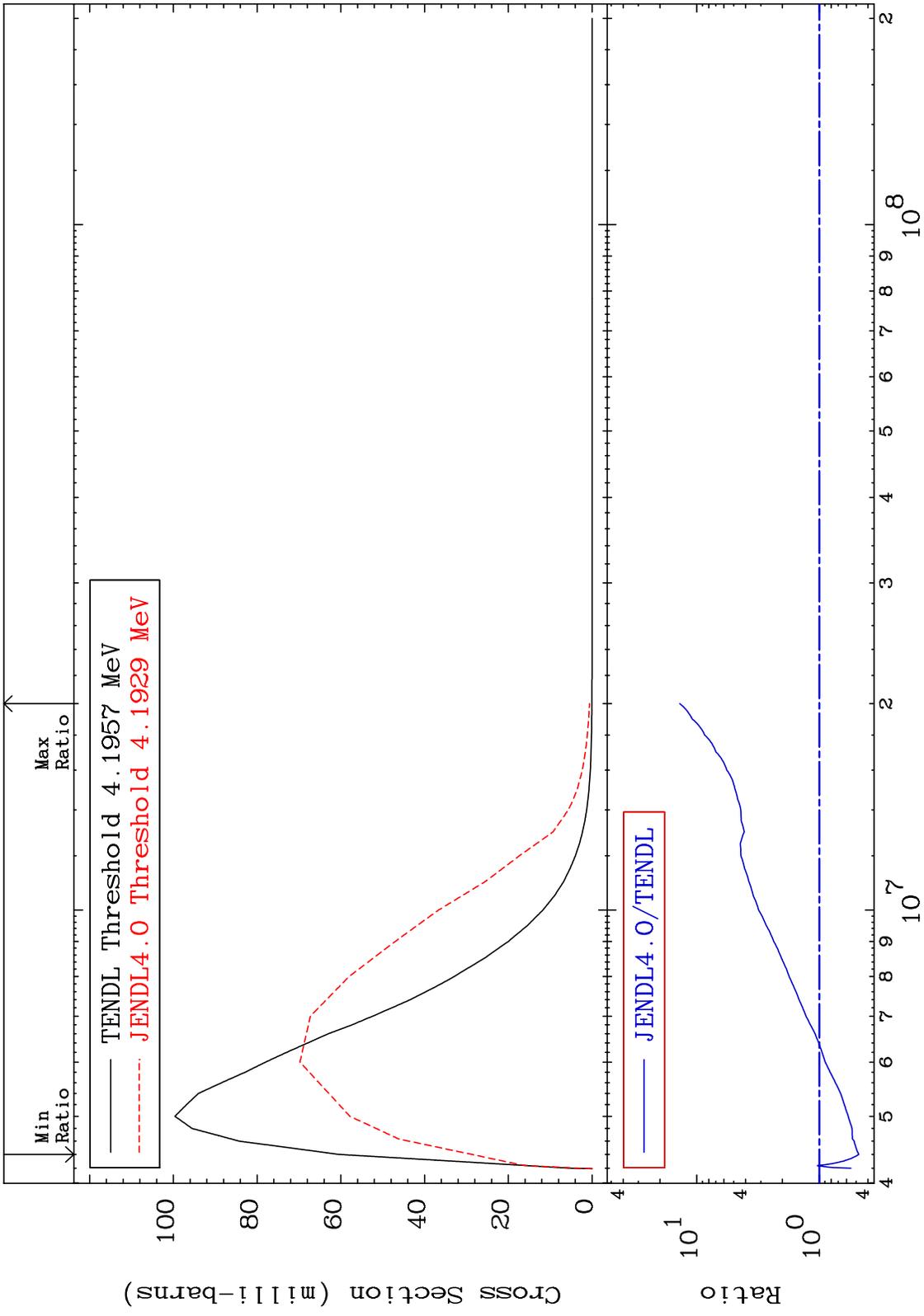


9

Incident Energy (eV)

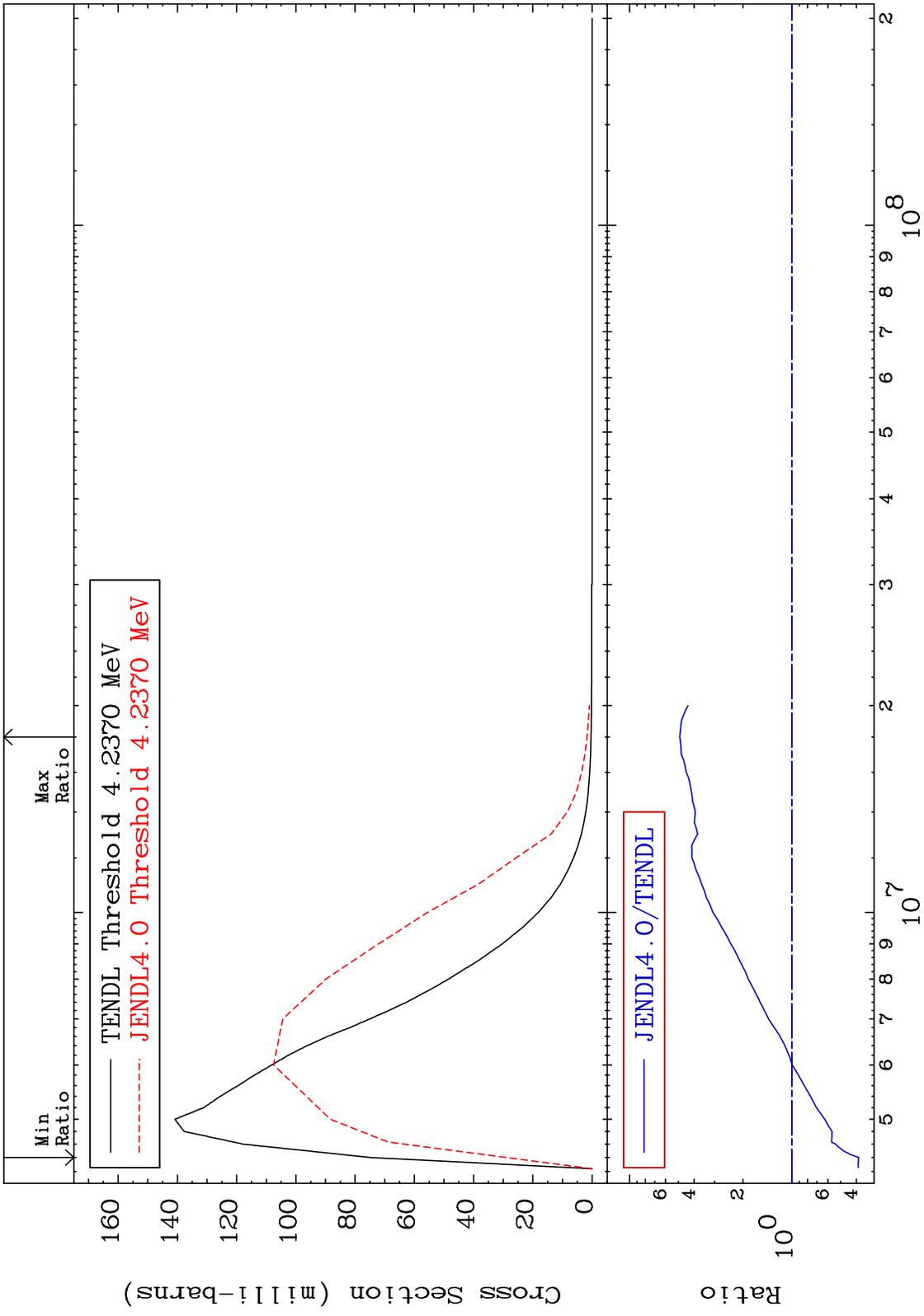
16-S -34

MAT 1631 MT= 54 (n,n') Level Cross Section 16-S -34
 -52.46 To 1279. %



10 16-S -34

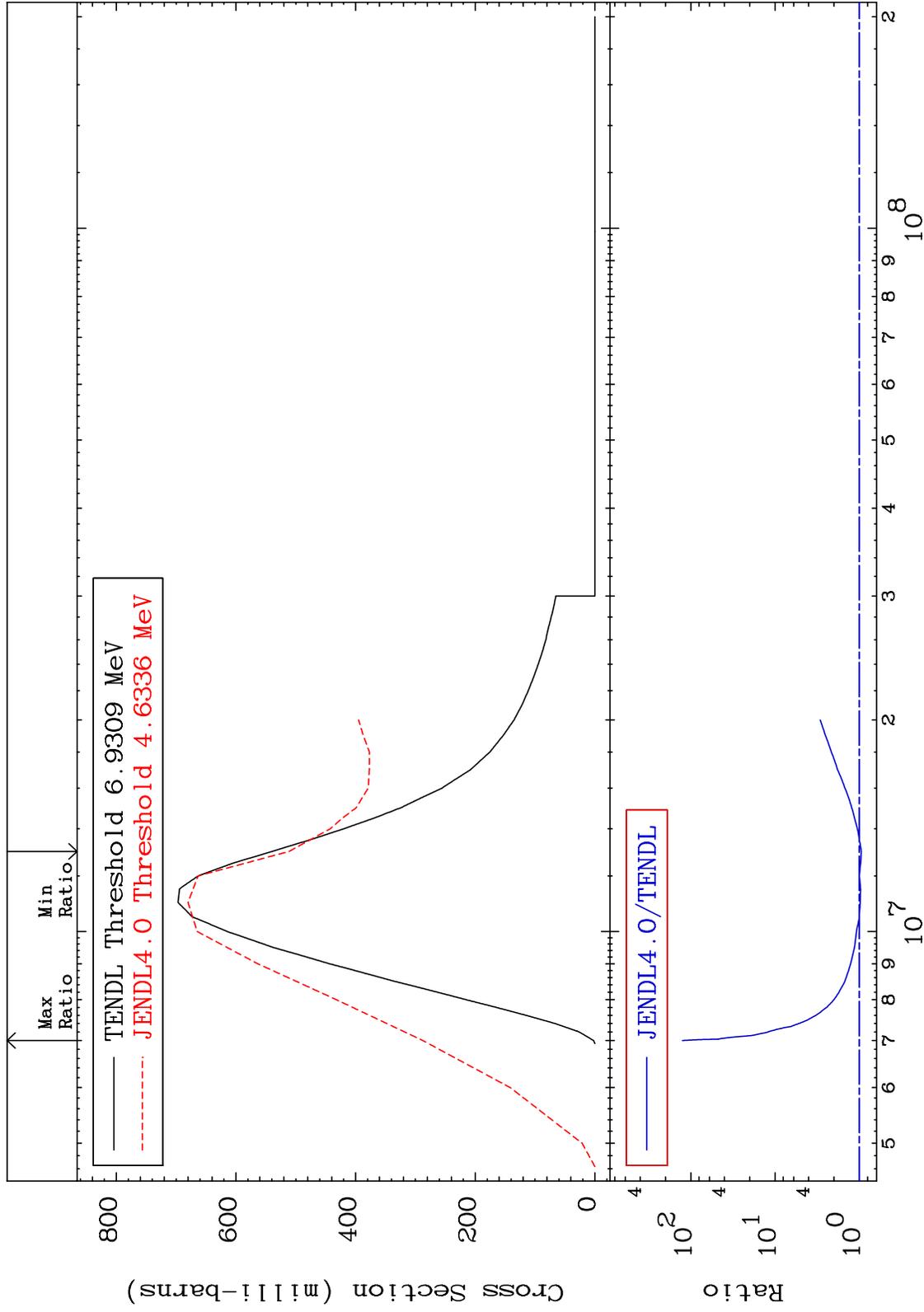
MAT 1631 MT= 55 (n,n') Level Cross Section -61.33 To 390.5 % 16-S -34



MAT 1631

(n,n') Continuum
Cross Section

16-S -34
-5.254 To 9999. %



12

Incident Energy (eV)

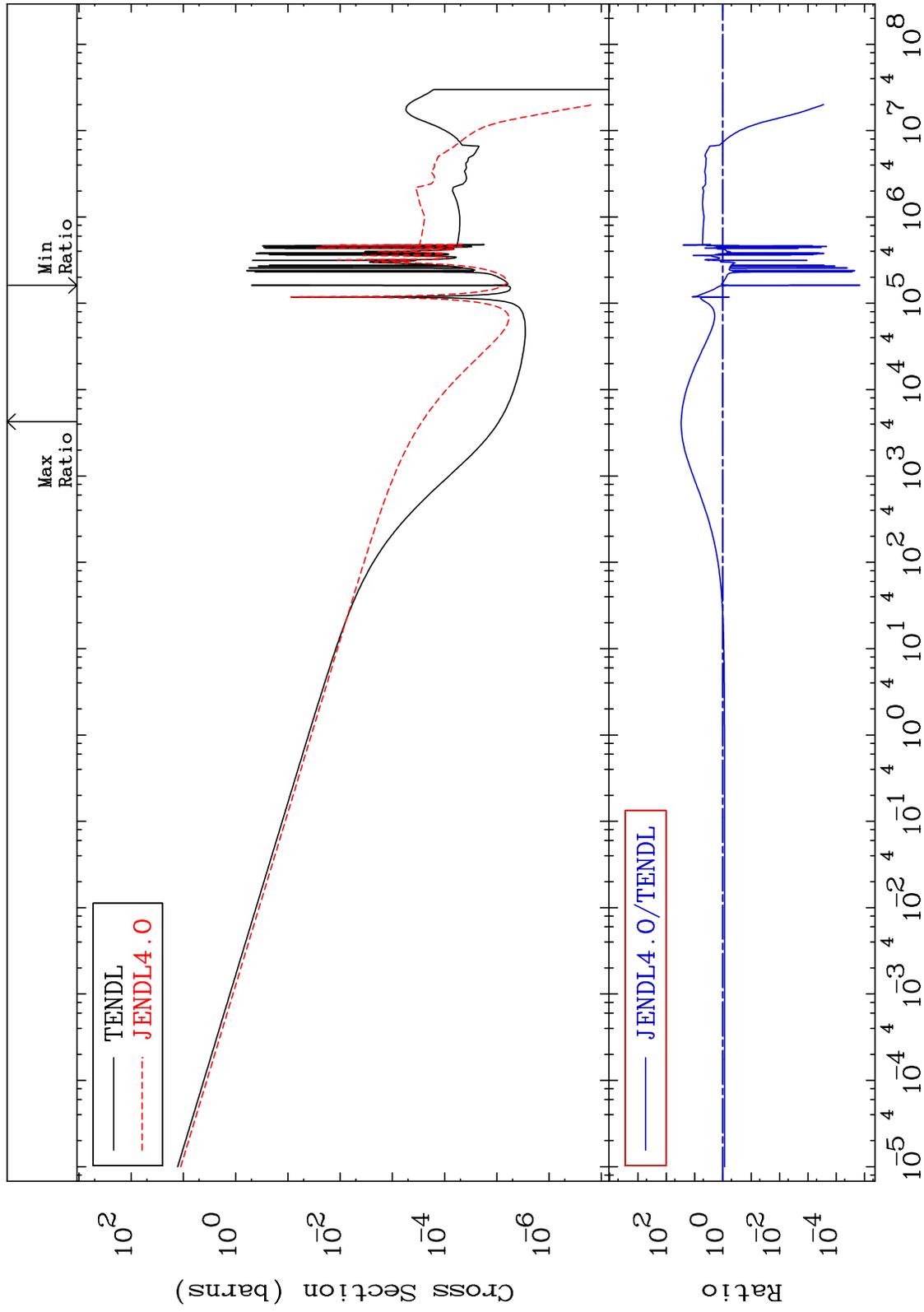
16-S -34

MAT 1631

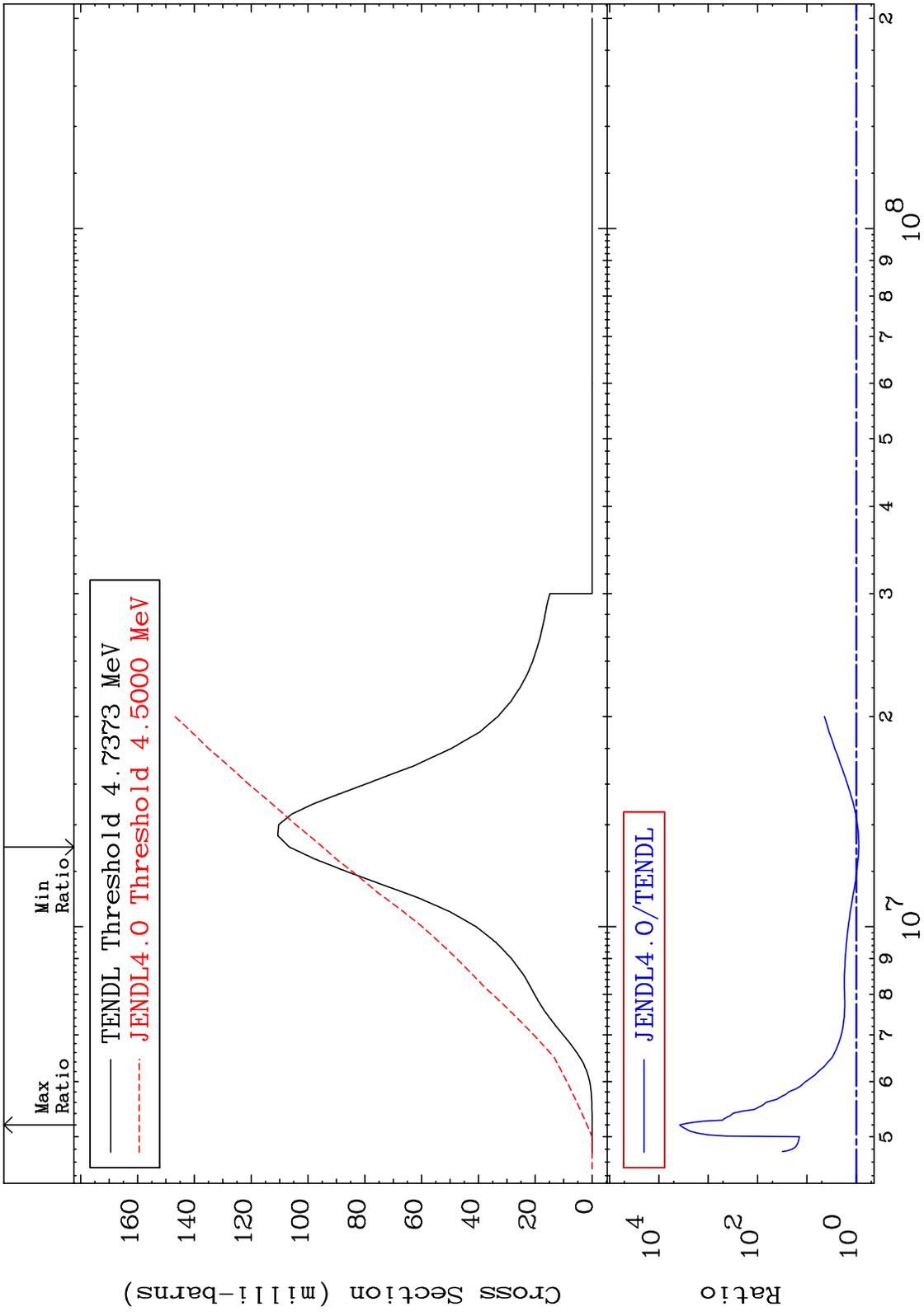
(n, γ)

Cross Section

16-S -34
-100.0 To 2869. %

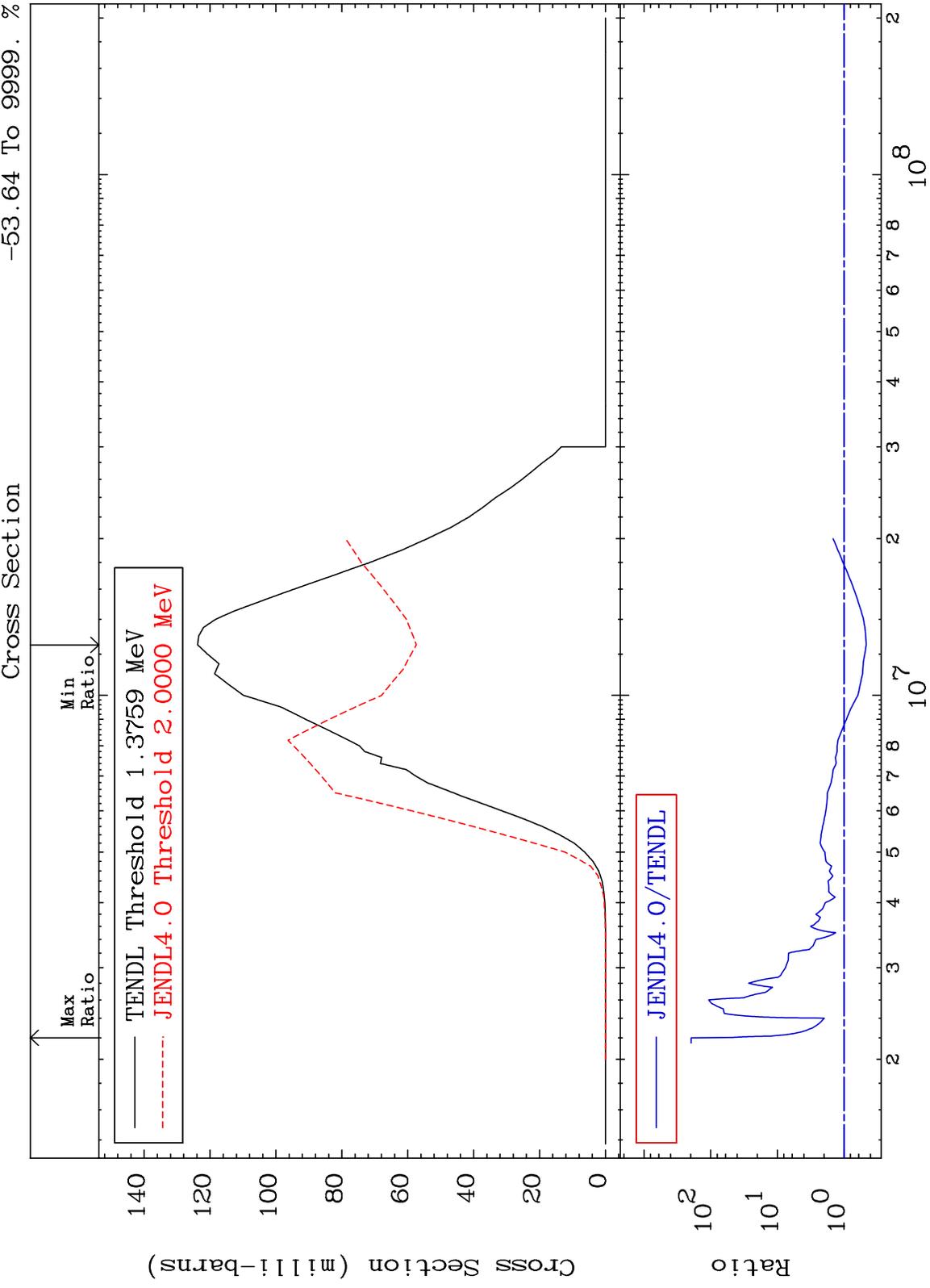


MAT 1631 (n,p) 16-S -34
 Cross Section -11.01 To 9999. %



16-S -34

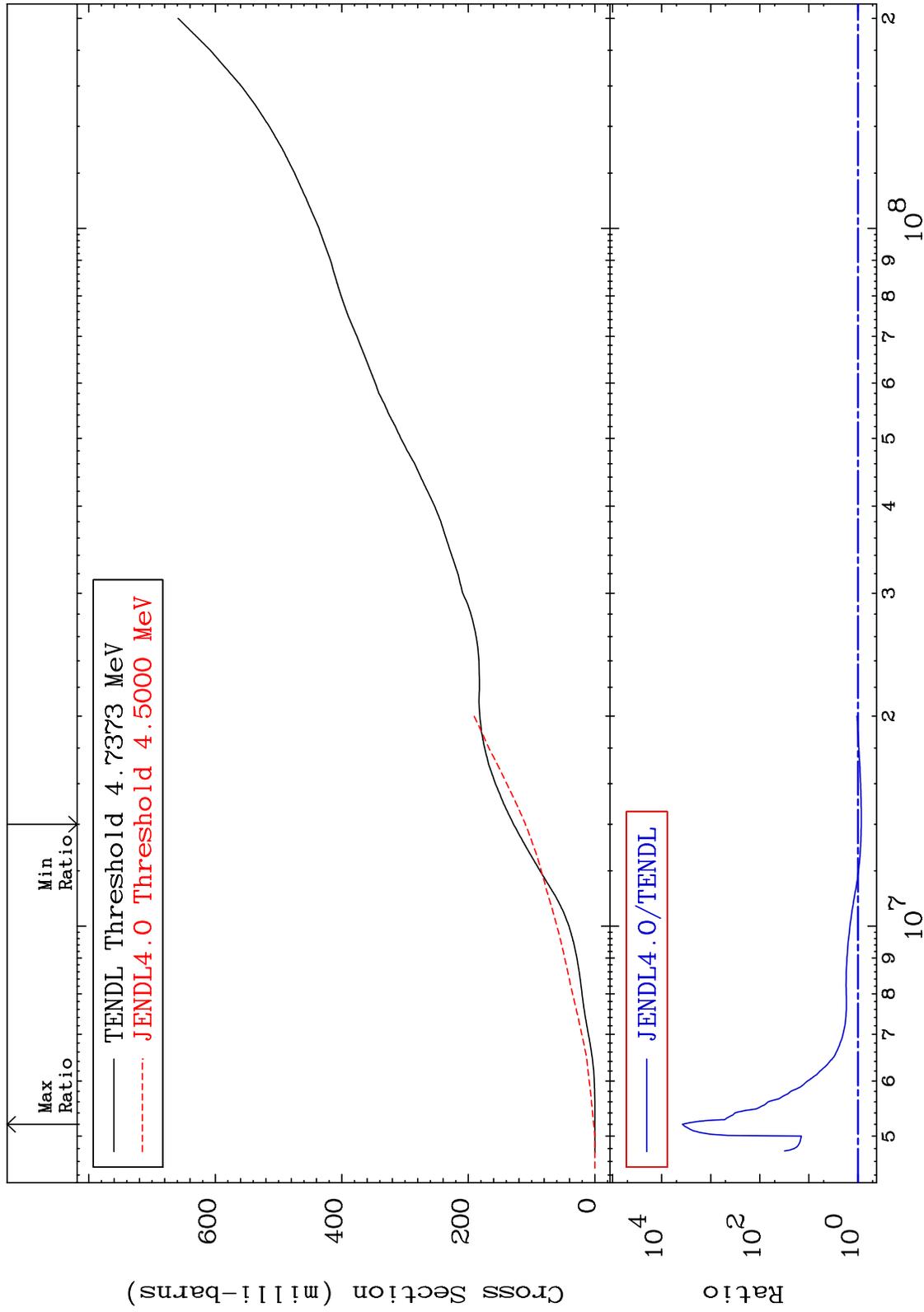
MAT 1631 (n,α) 16-S -34
-53.64 To 9999. %



MAT 1631

Hydrogen Production
Cross Section

16-S -34
-14.64 To 9999. %



16

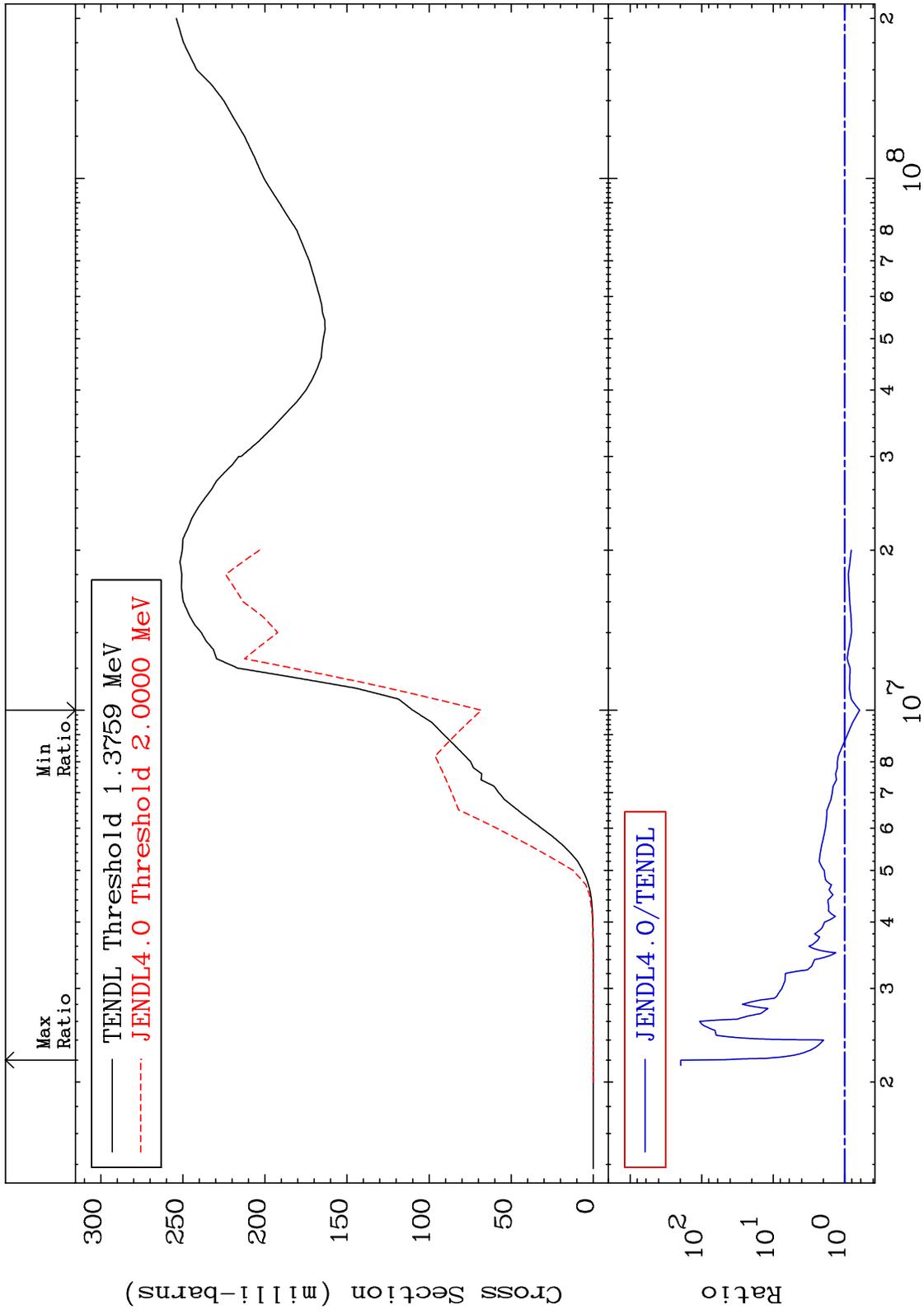
Incident Energy (eV)

16-S -34

MAT 1631

He-4 Production
Cross Section

16-S -34
-38.07 To 9999. %

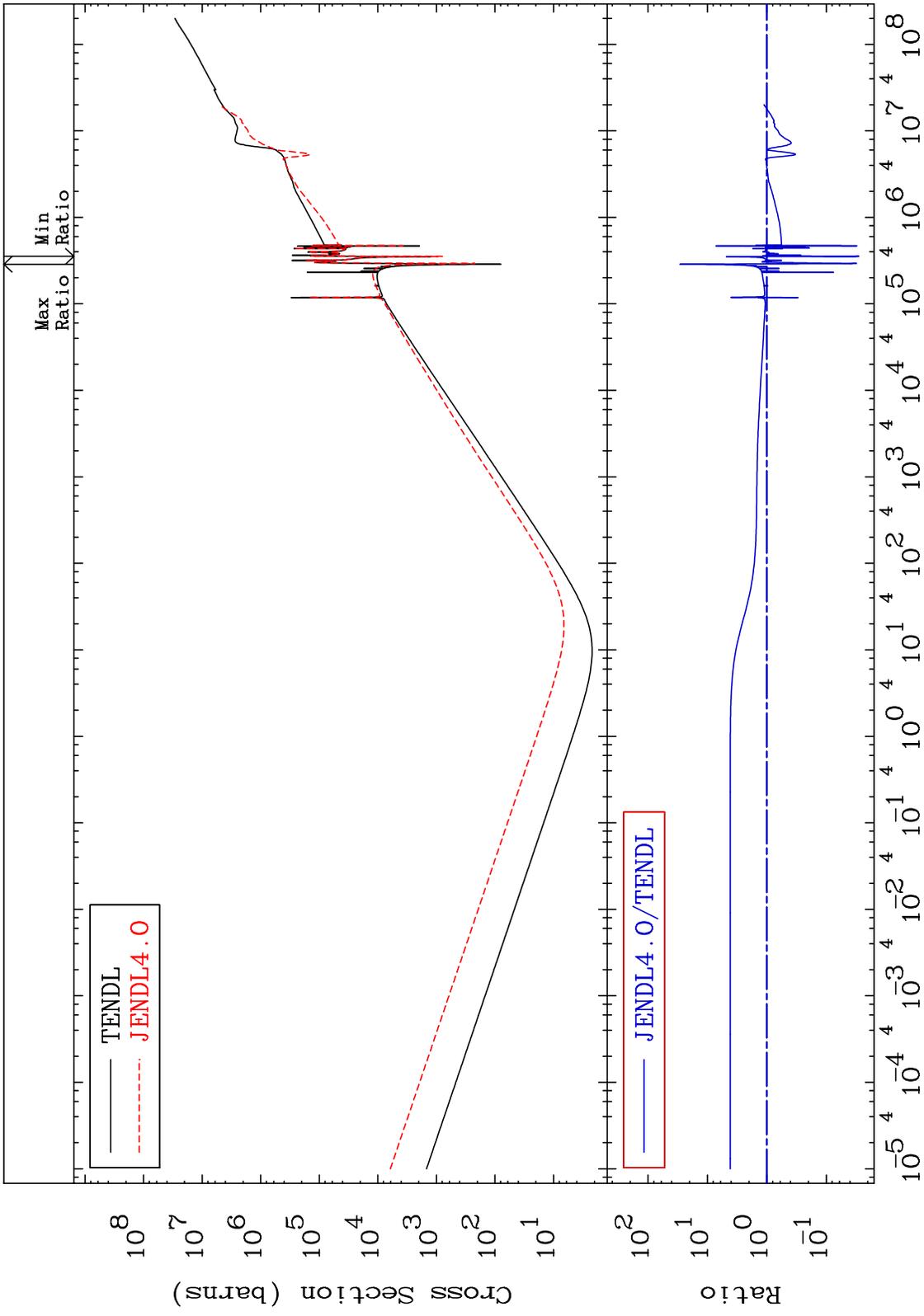


17

Incident Energy (eV)

16-S -34

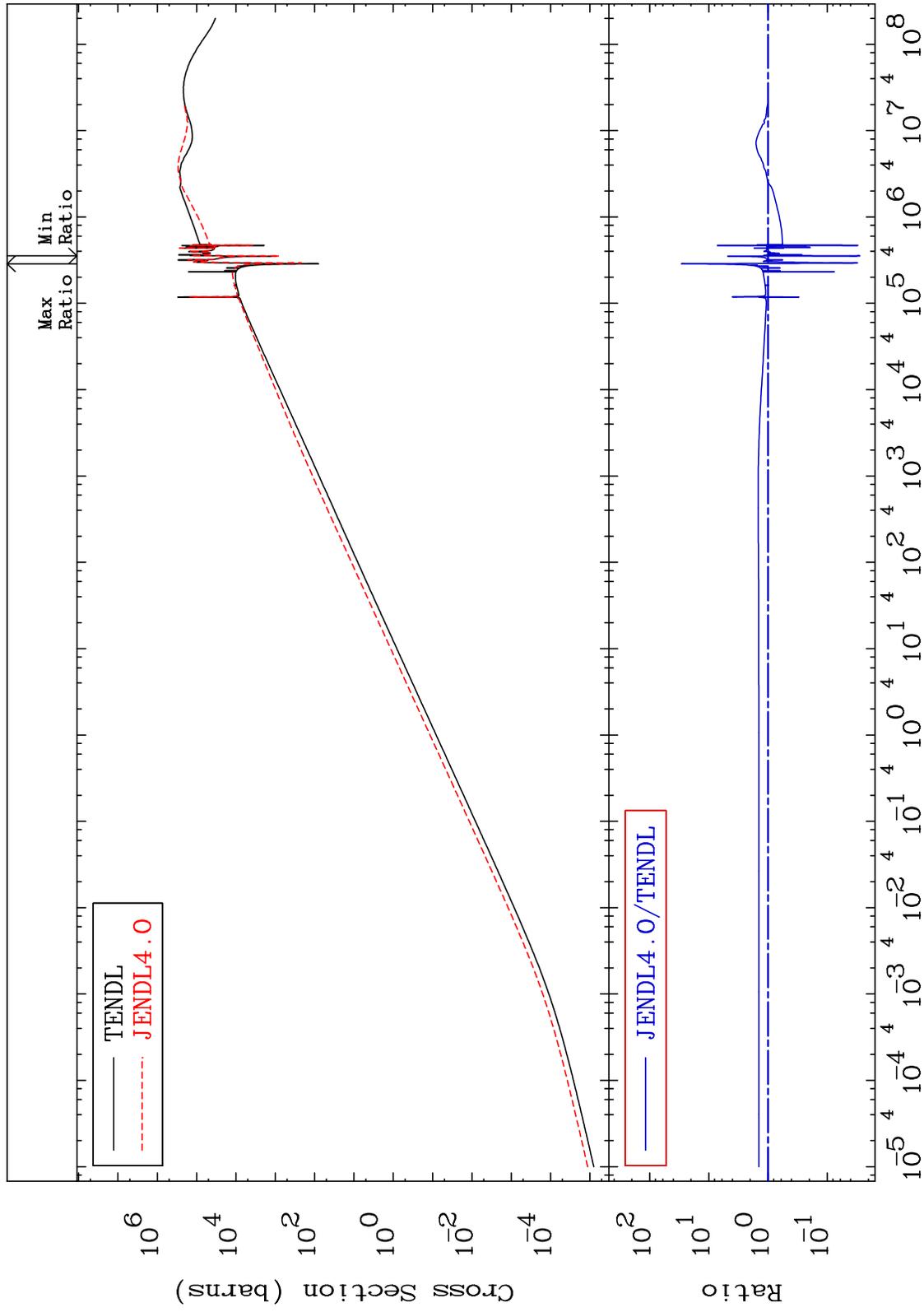
MAT 1631 Kerma total (eV-barns) Cross Section 16-S -34
 -97.16 To 2827. %



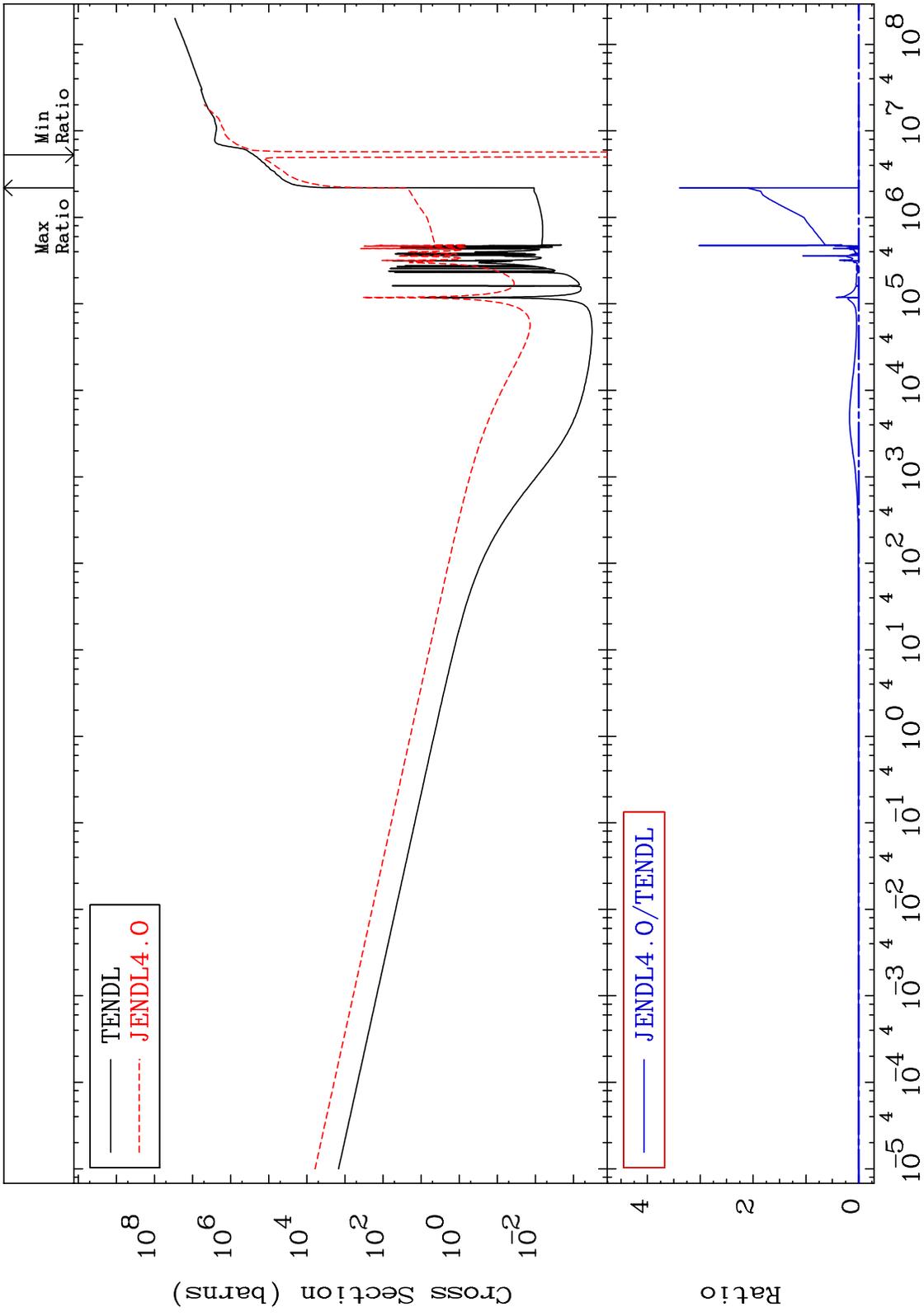
MAT 1631

Kerma elastic
Cross Section

16-S -34
-97.19 To 2827. %



MAT 1631 Kerma non-elastic (all but mt2) Cross Section 16-S -34
 -147.7 To 9999. %

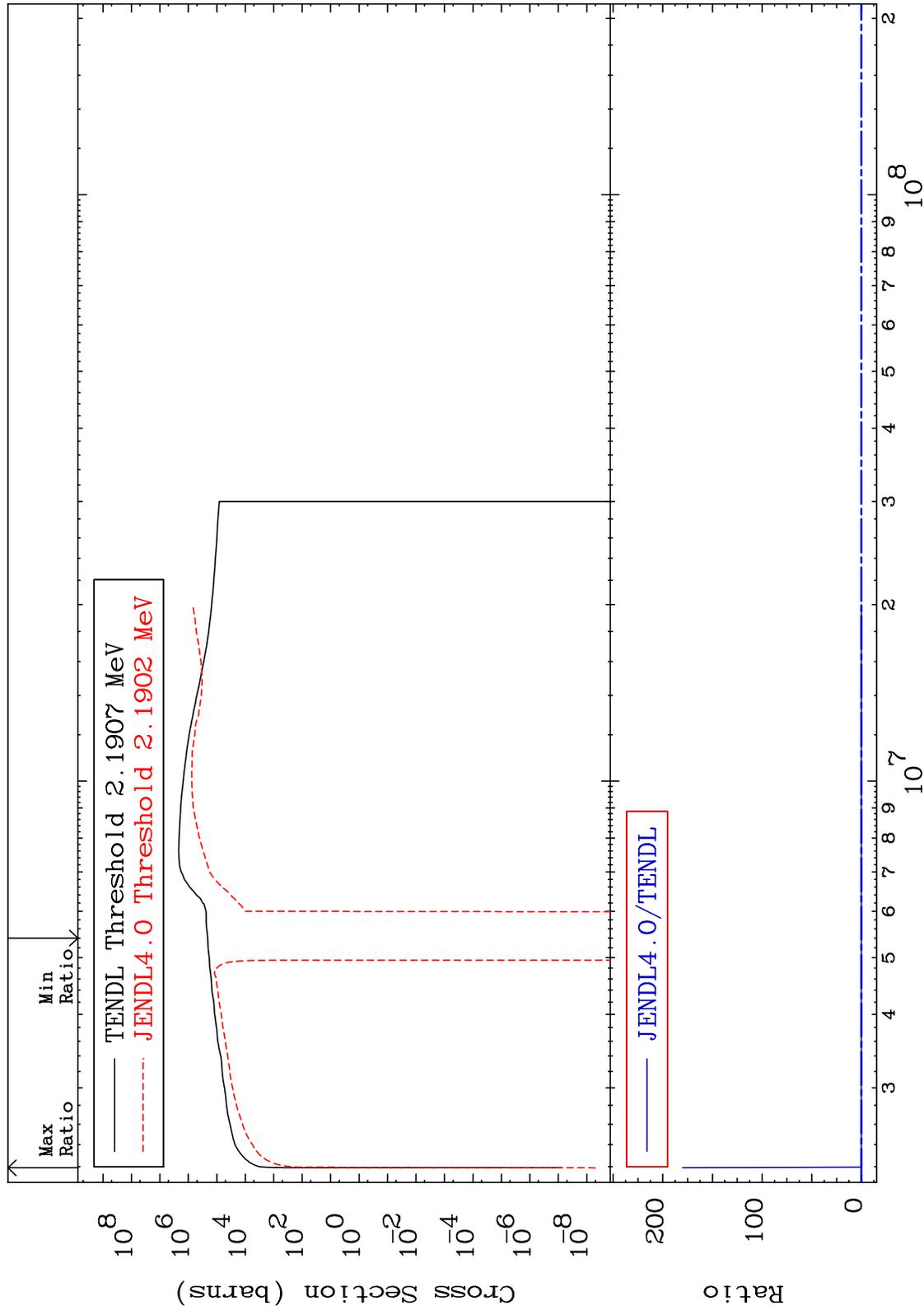


20 16-S -34

MAT 1631

Kerma inelastic (mt51-91)
Cross Section

16-S -34
-215.9 To 9999. %



21

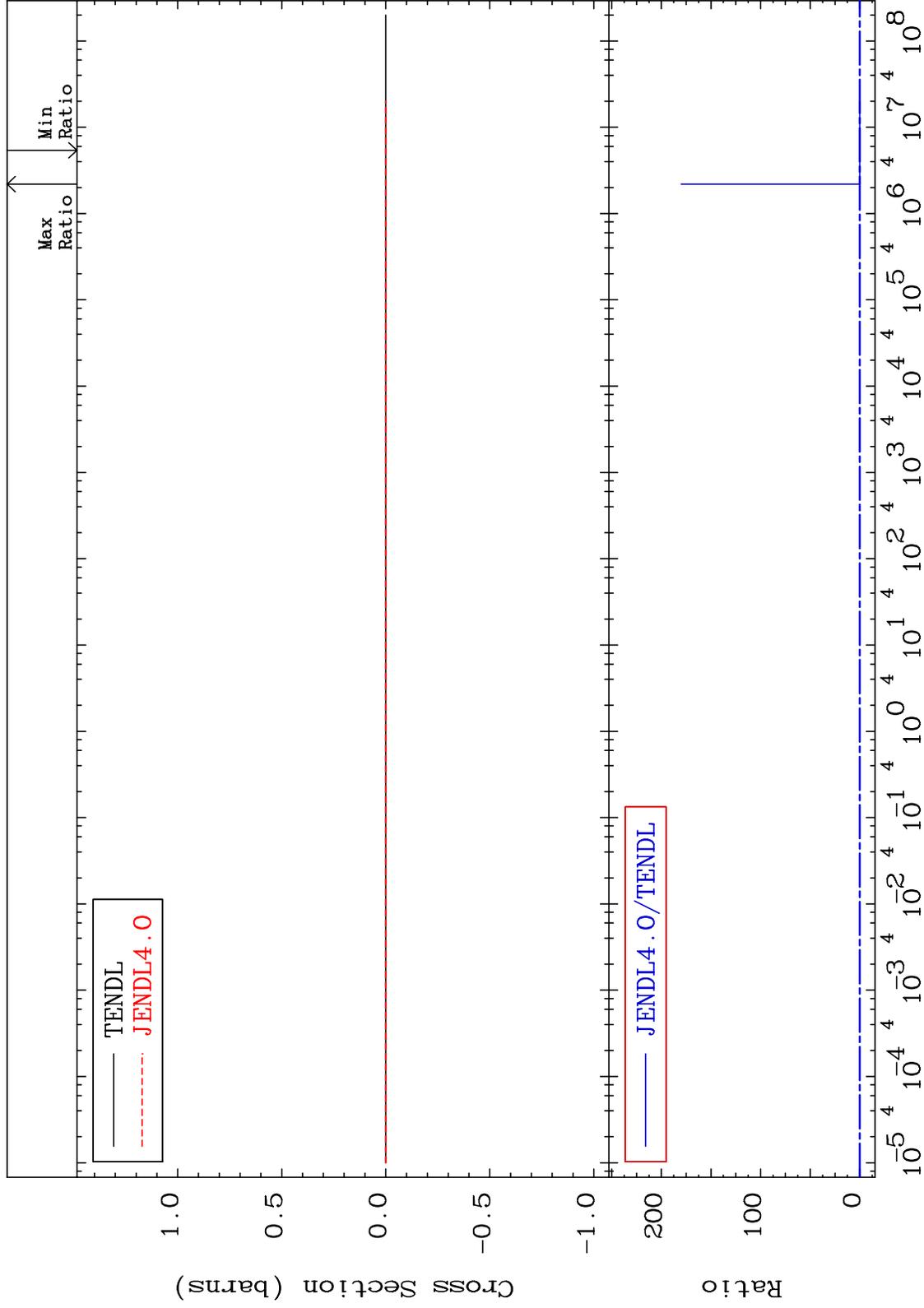
Incident Energy (eV)

16-S -34

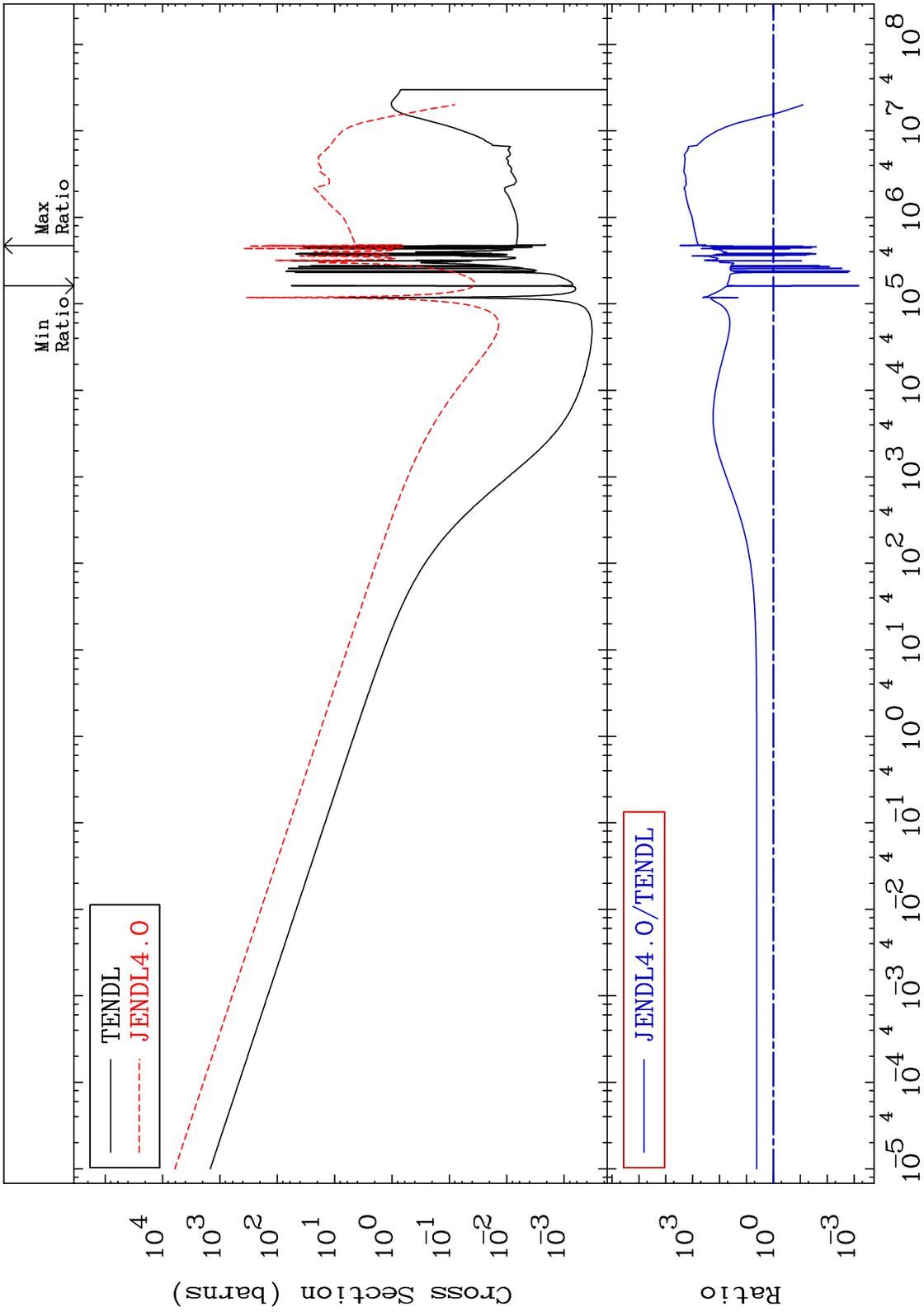
MAT 1631

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

16-S -34
-215.9 To 9999. %



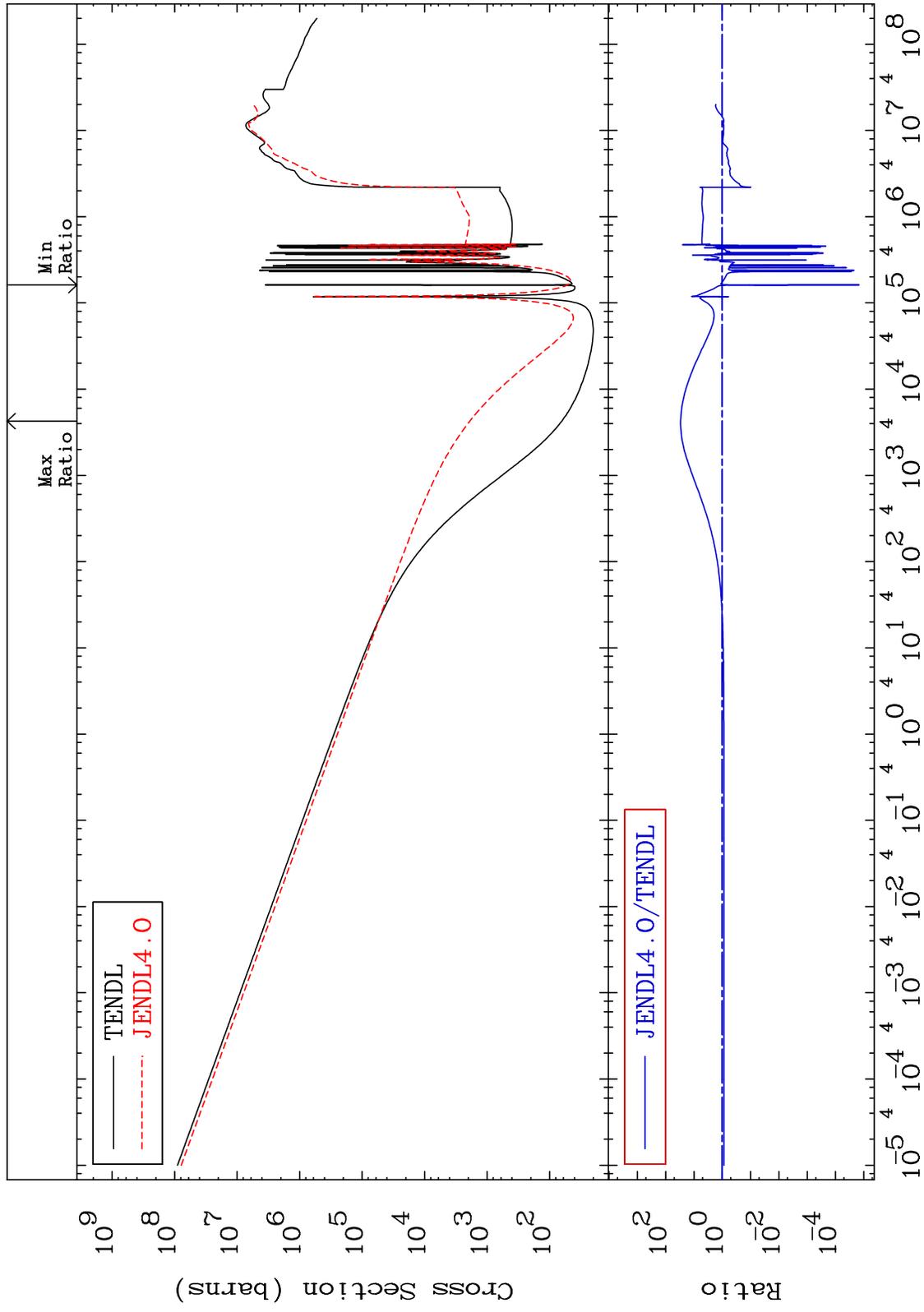
MAT 1631 Kerma capture (mt102) 16-S -34
 Cross Section -99.93 To 9999. %



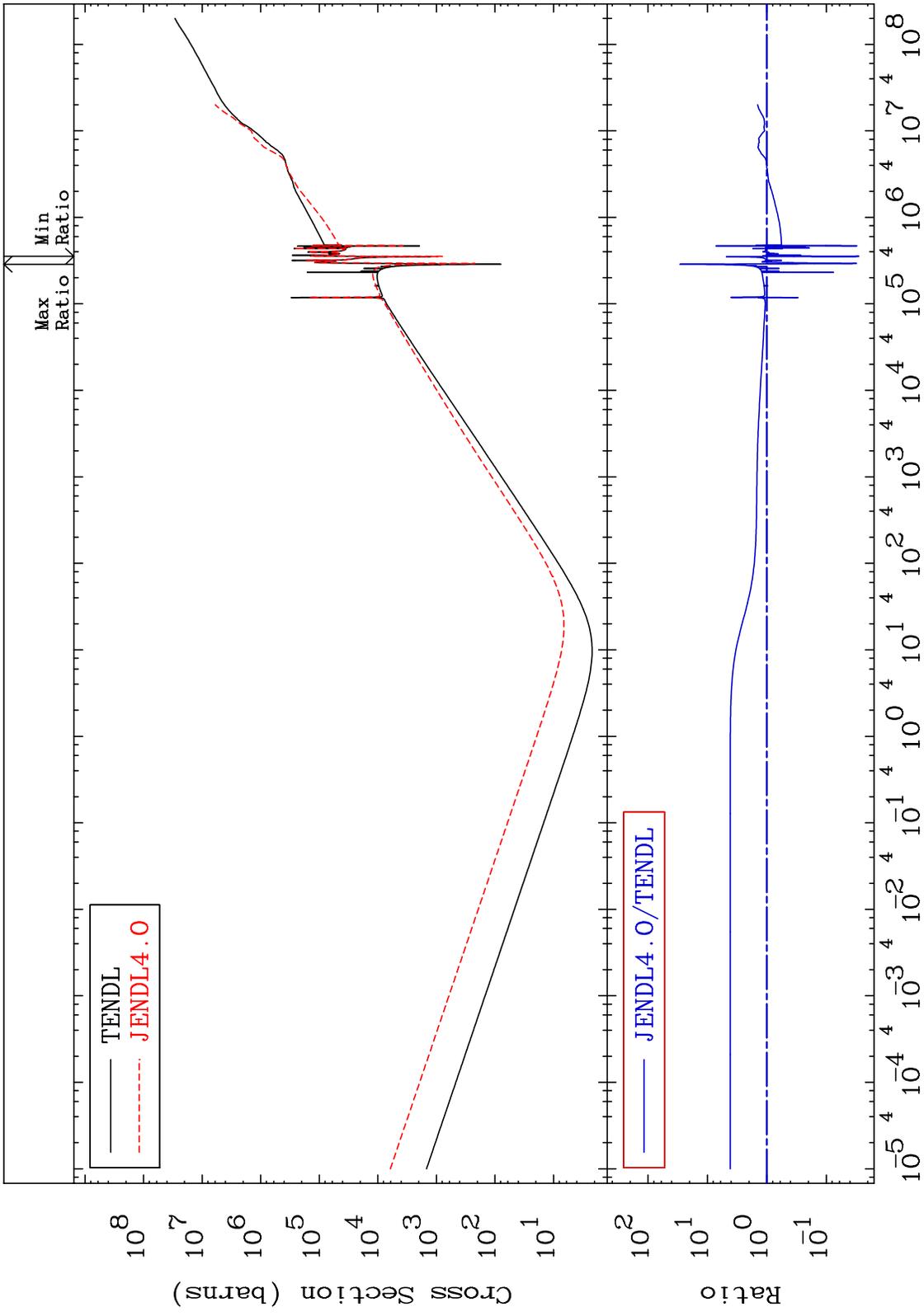
MAT 1631

Total photon (eV-barns)
Cross Section

16-S -34
-100.0 To 2870. %



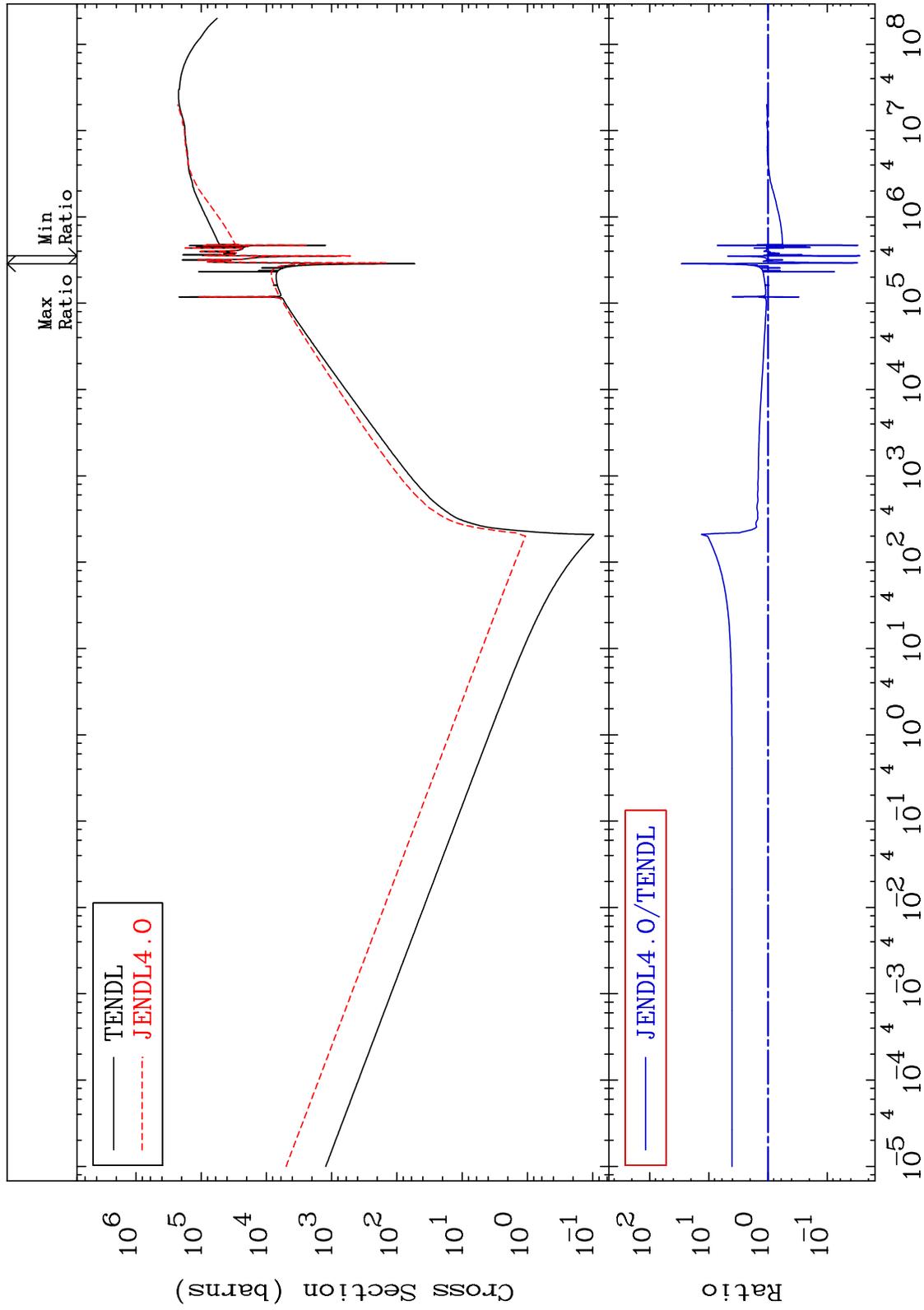
MAT 1631 Total kinematic kerma (high limit) Cross Section 16-S -34
 -97.16 To 2827. %



MAT 1631

Dpa total (eV-barns)
Cross Section

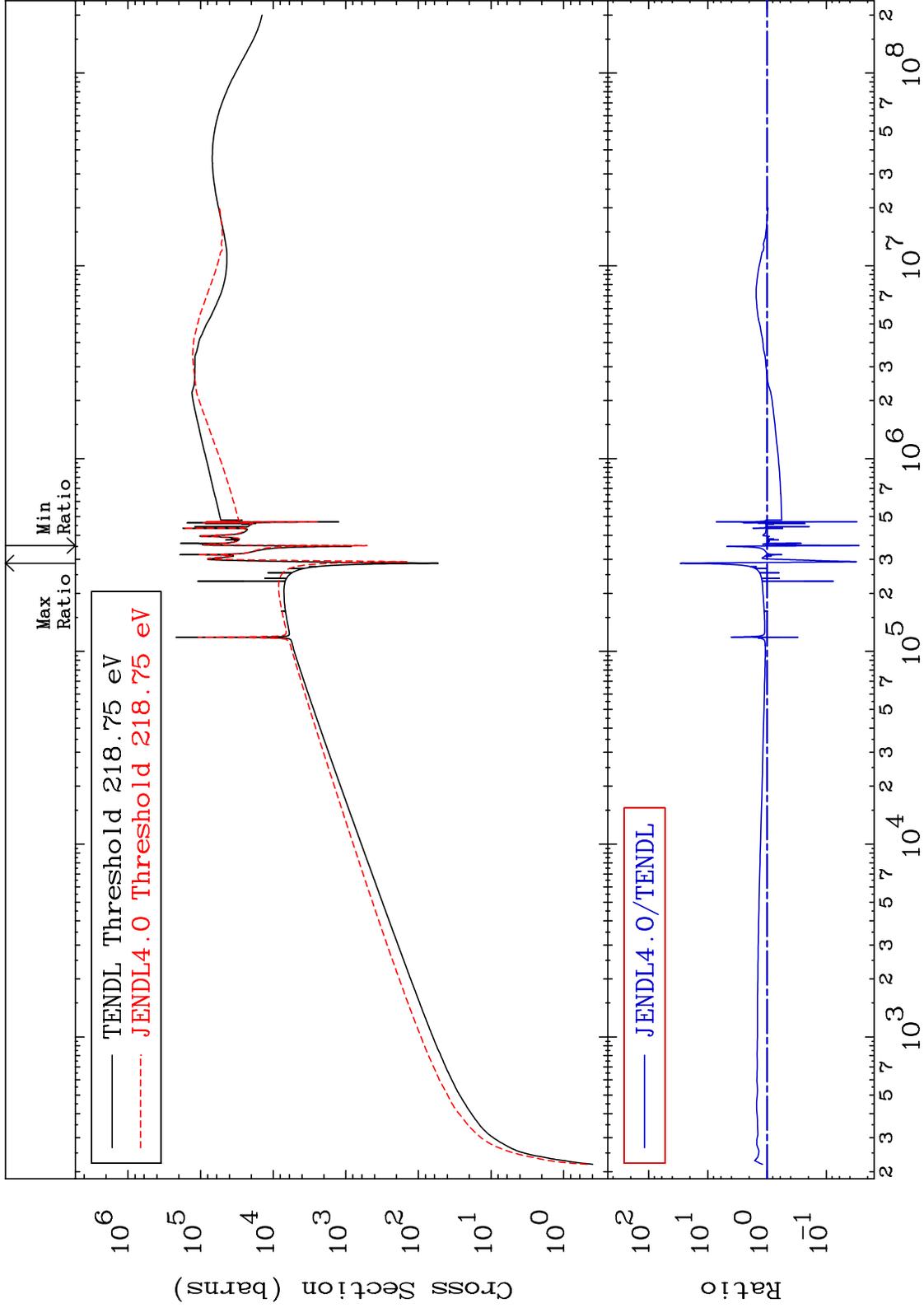
16-S -34
-97.18 To 2832. %



MAT 1631

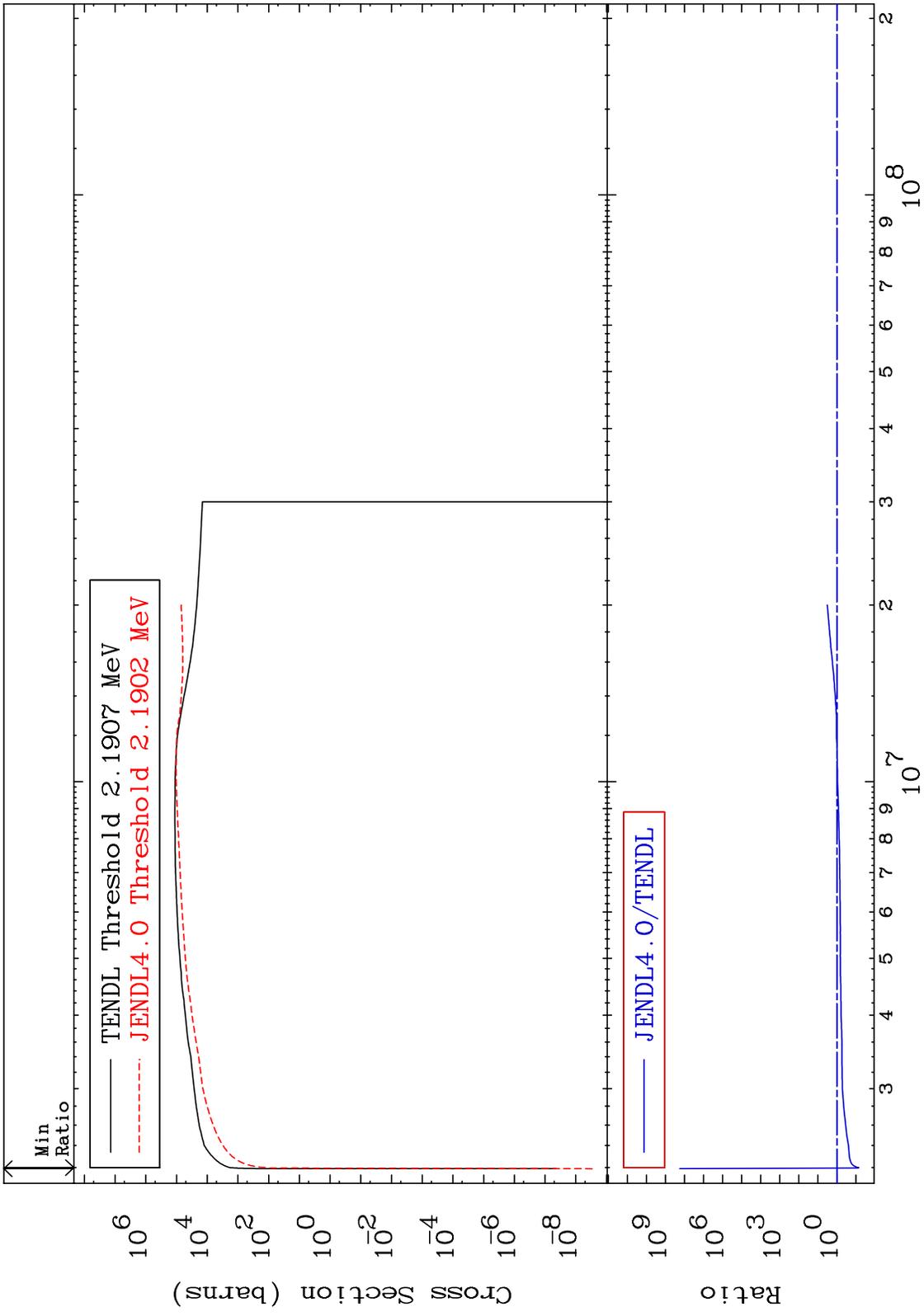
Dpa elastic (mt2)
Cross Section

16-S -34
-97.19 To 2834. %



27

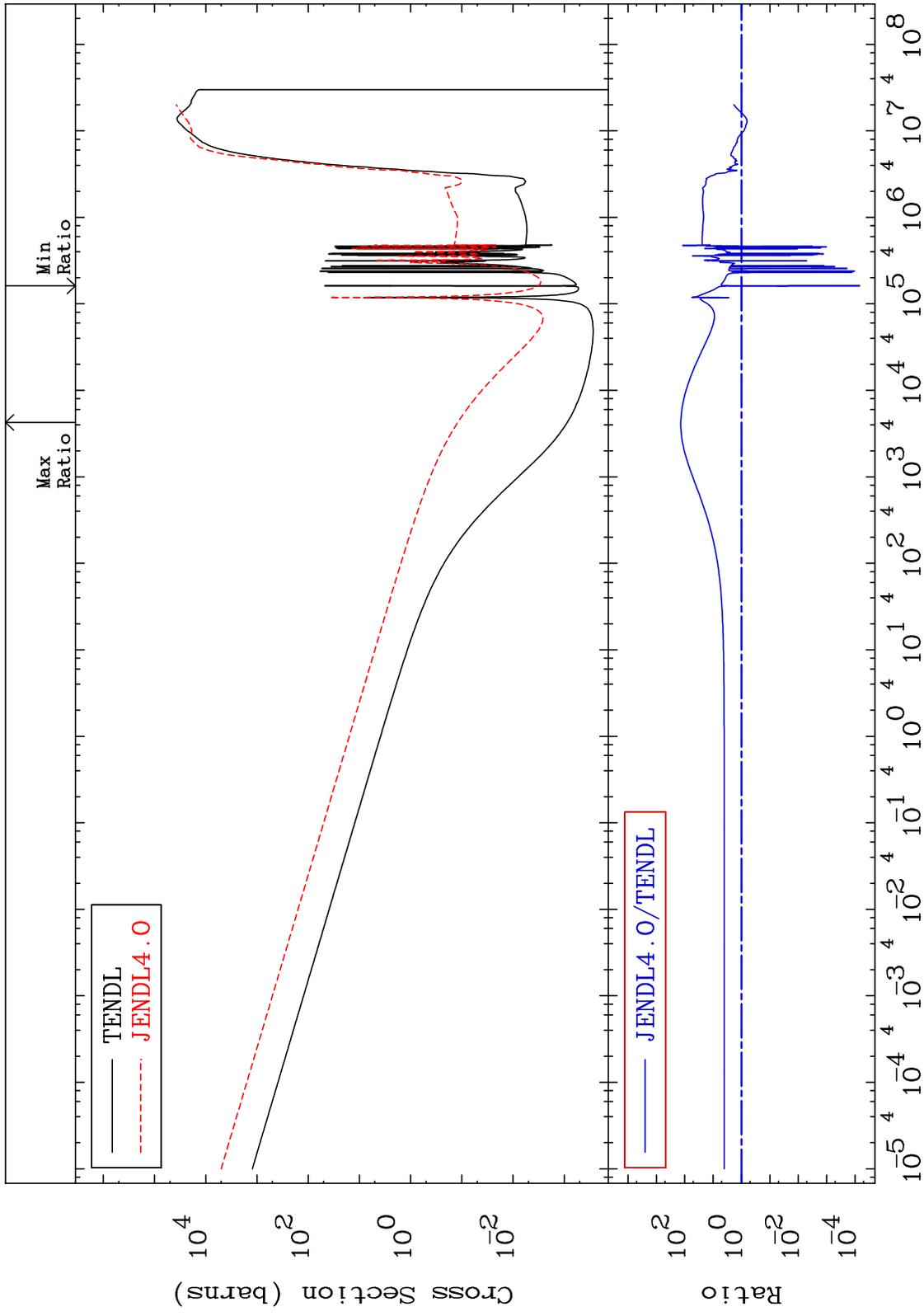
16-S -34



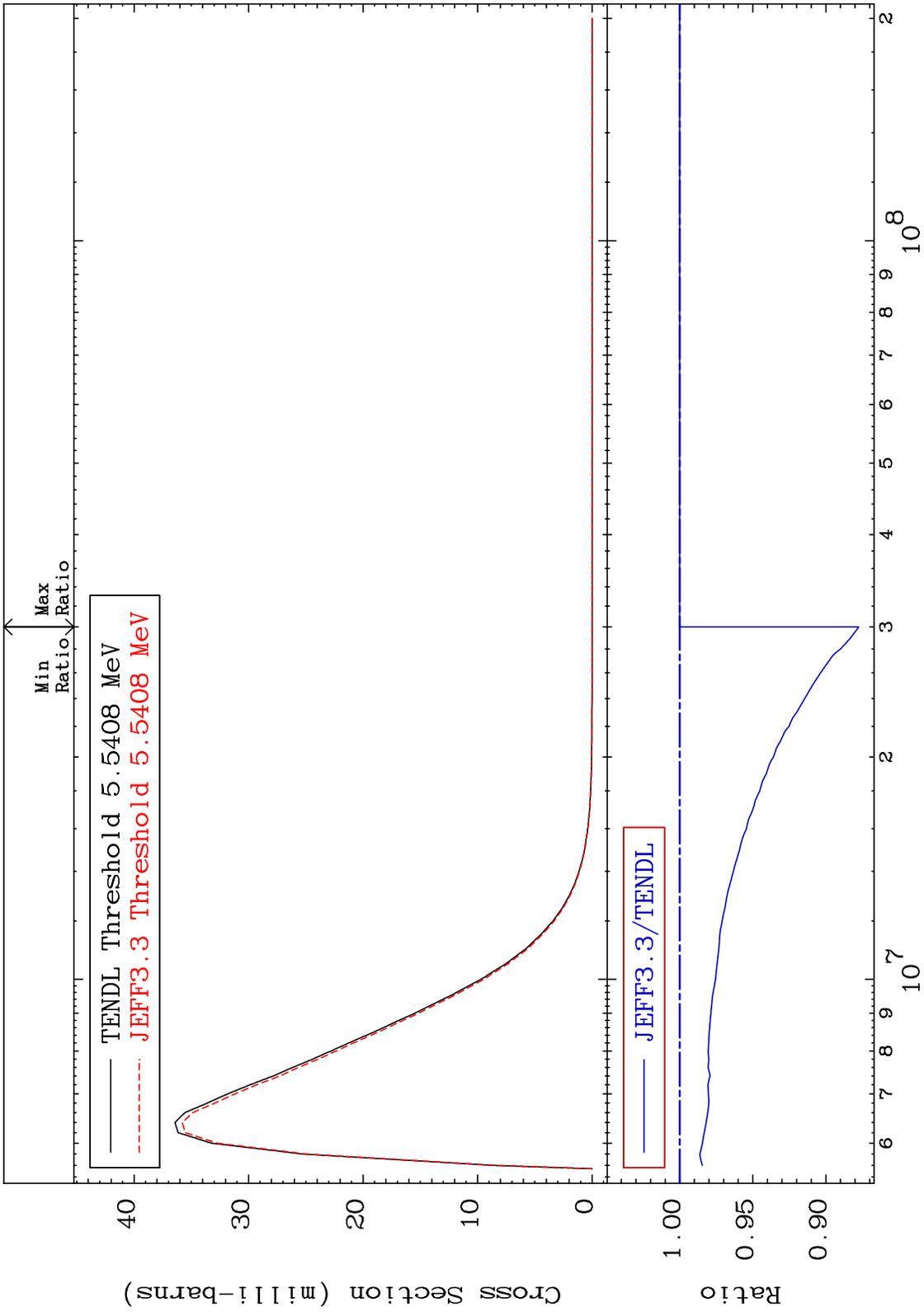
MAT 1631

Dpa disappearance (mt102 -120)
Cross Section

16-S -34
-99.99 To 9999. %



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

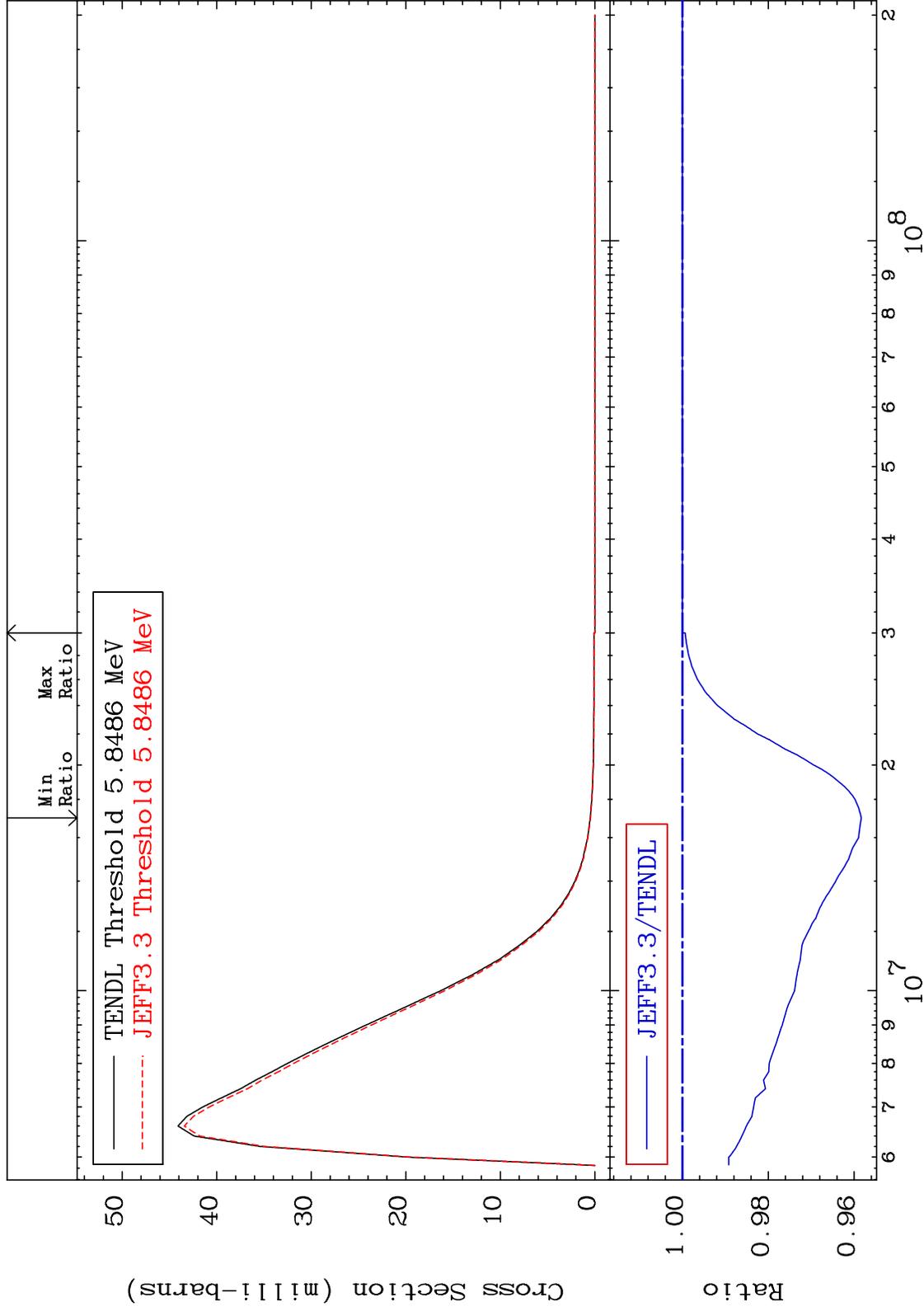


30 16-S -34

MAT 1631

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

16-S -34
-4.168 To 0.000 %



31

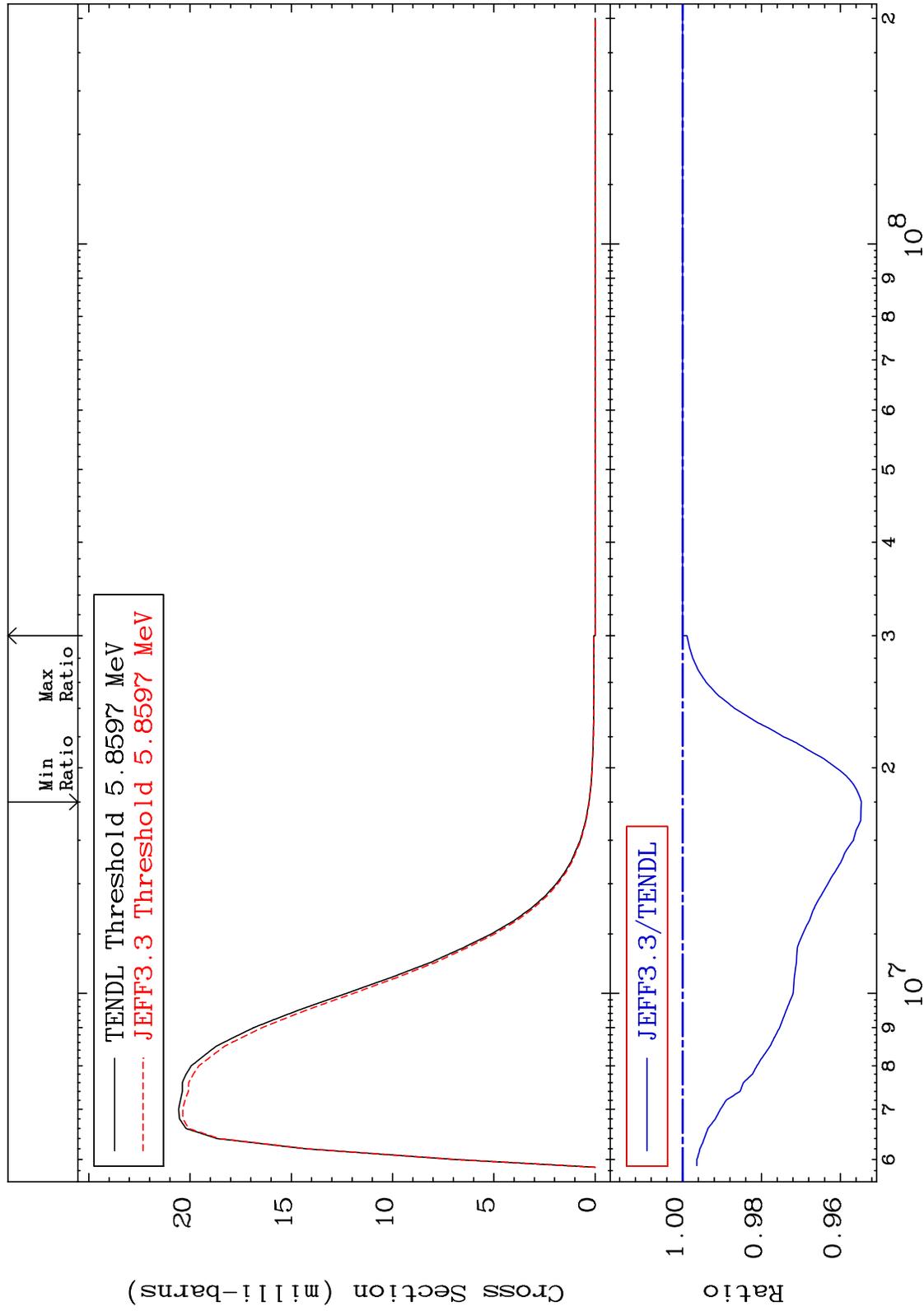
Incident Energy (eV)

16-S -34

MAT 1631

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

16-S -34
-4.535 To 0.000 %



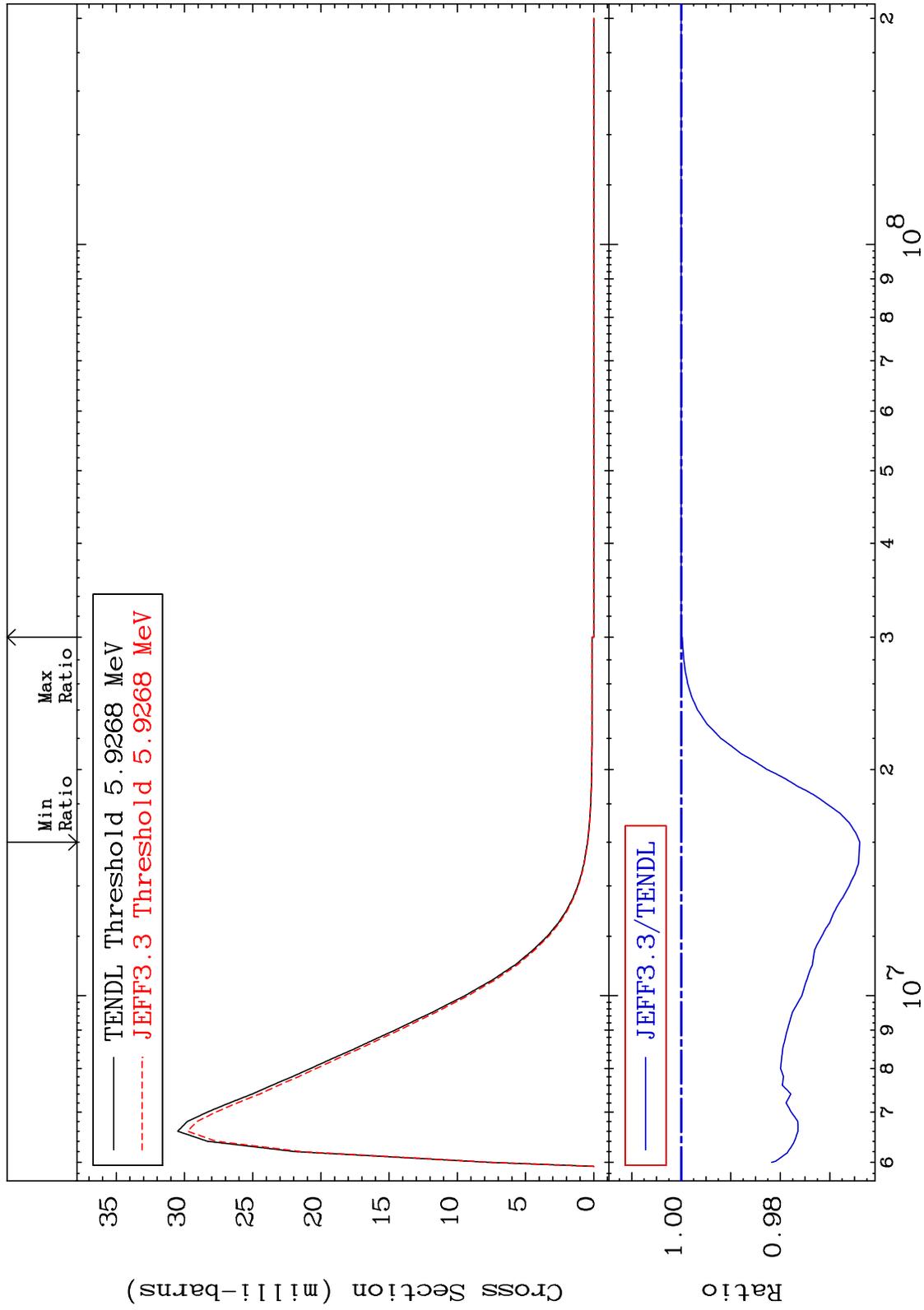
32

16-S -34

MAT 1631

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

16-S -34
-3.606 To 0.000 %



33

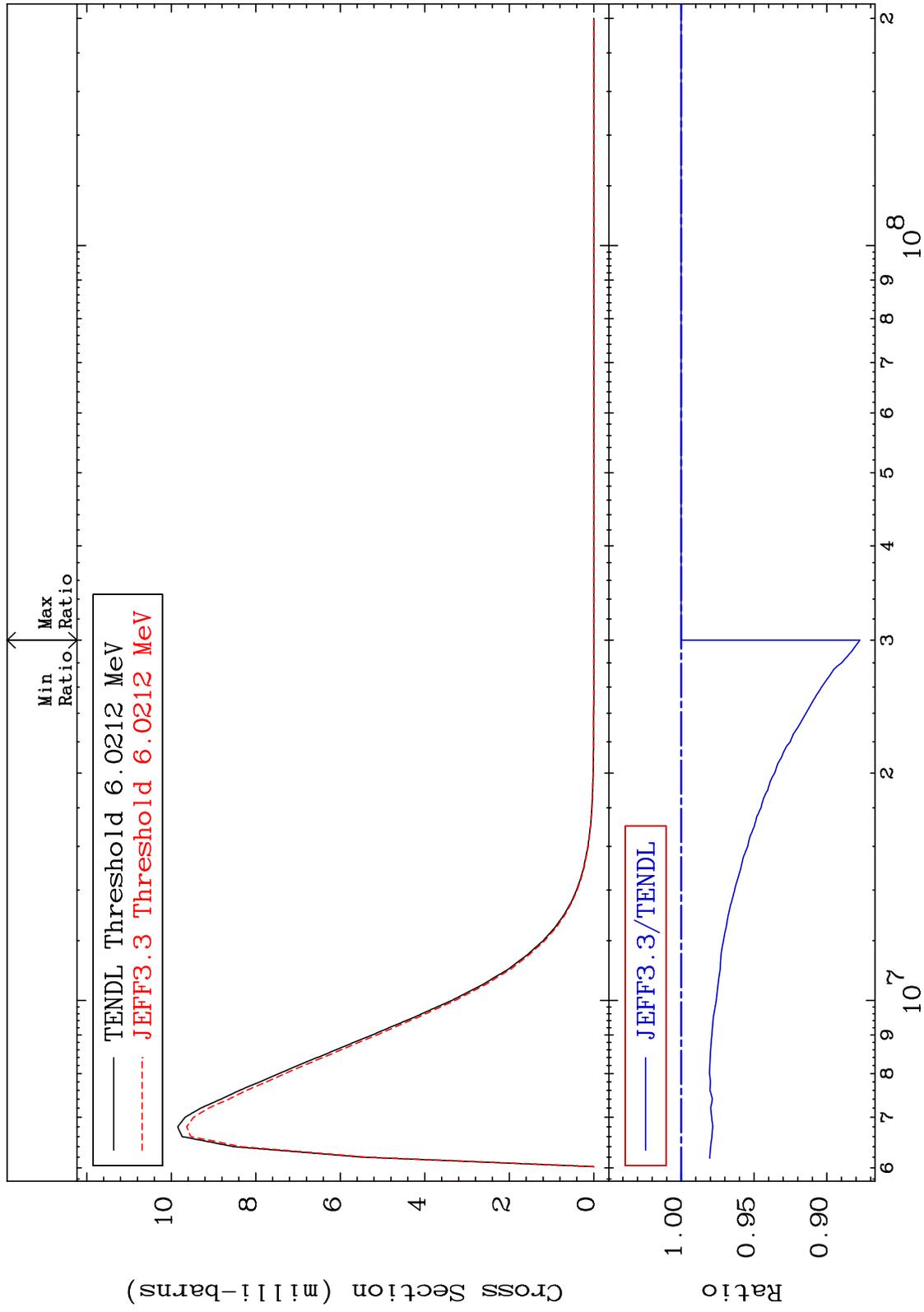
Incident Energy (eV)

16-S -34

MAT 1631

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

16-S -34
-12.26 To 0.000 %



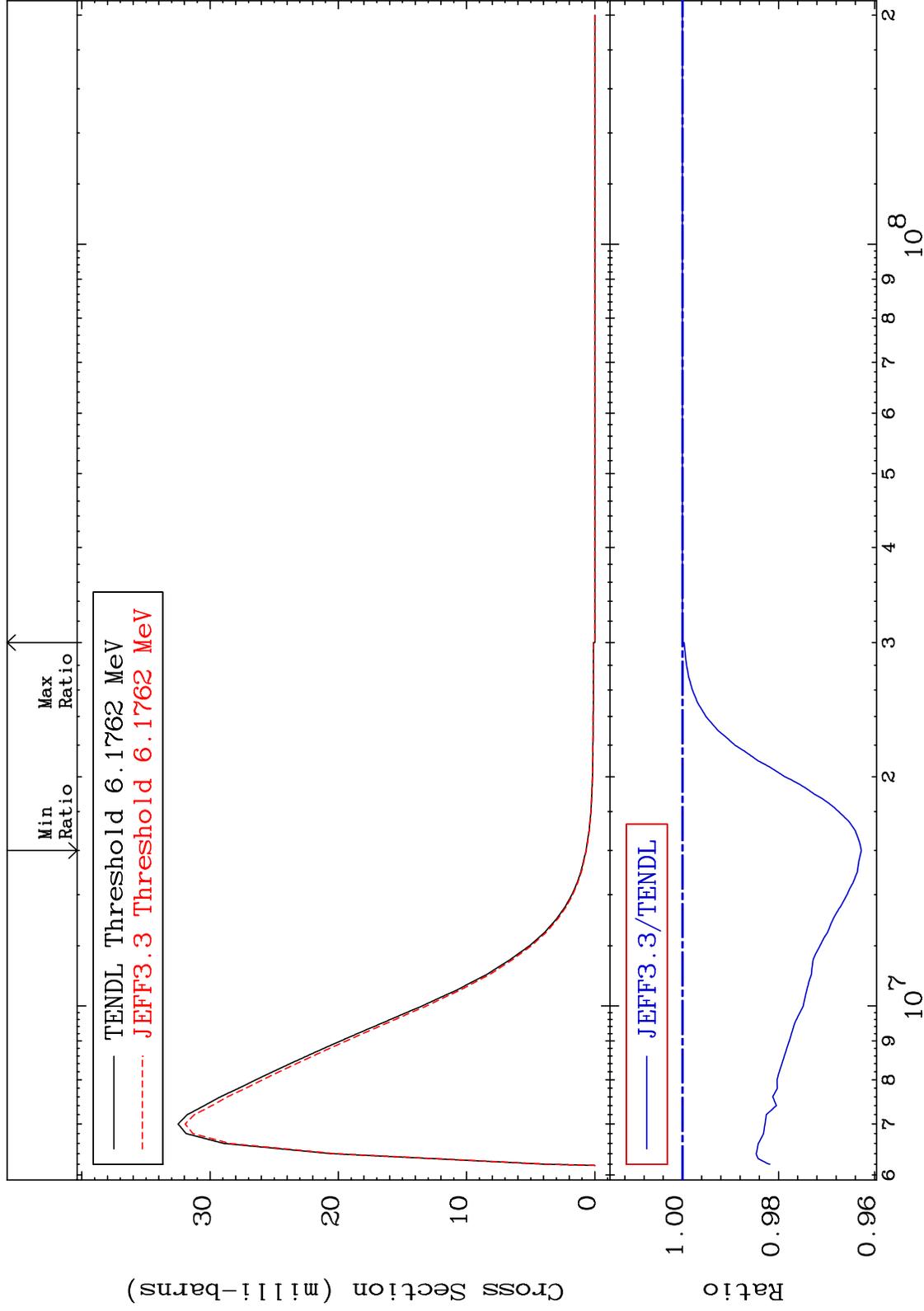
34

16-S -34

MAT 1631

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

16-S -34
-3.724 To 0.000 %



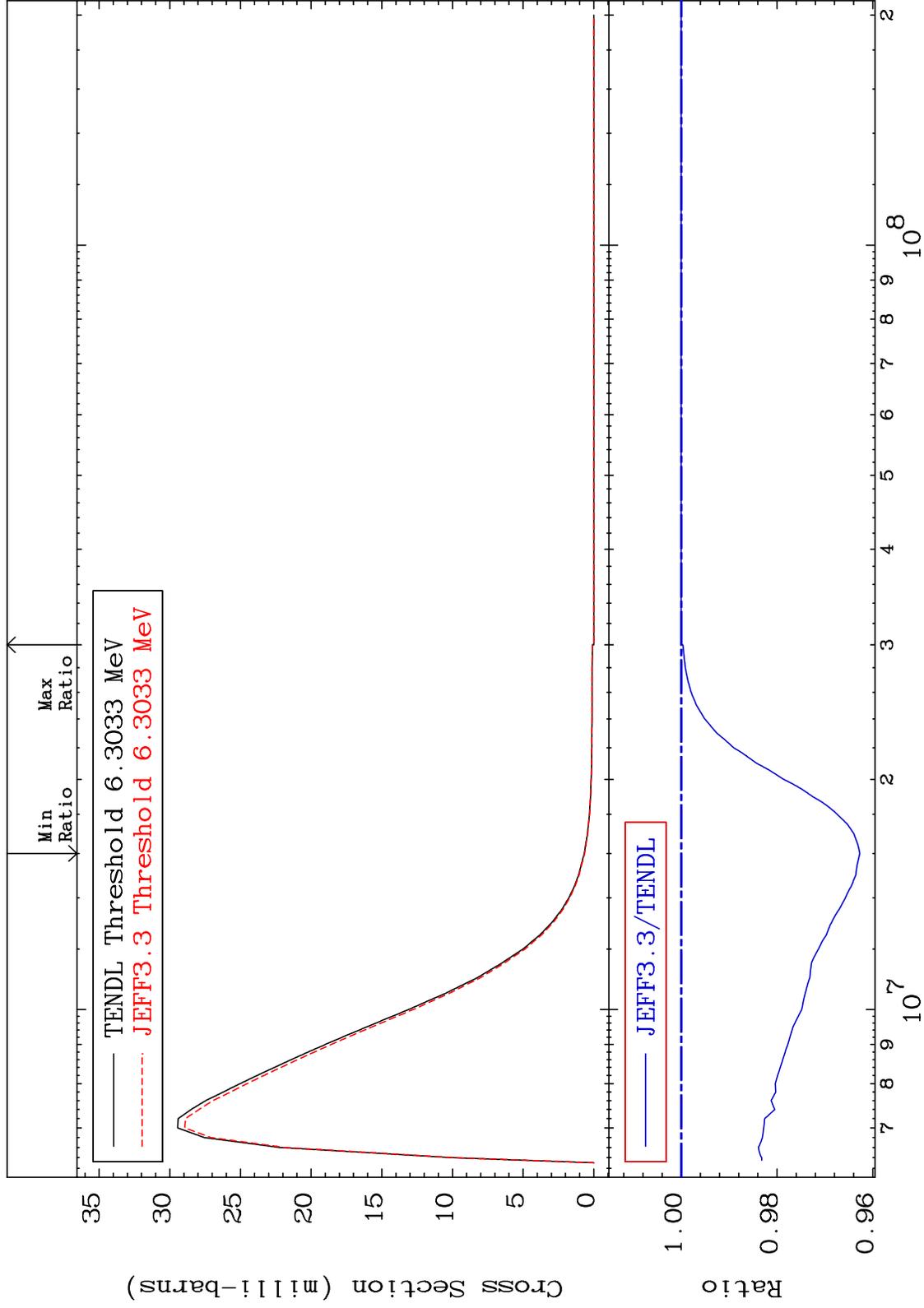
35

16-S -34

MAT 1631

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

16-S -34
-3.728 To 0.000 %

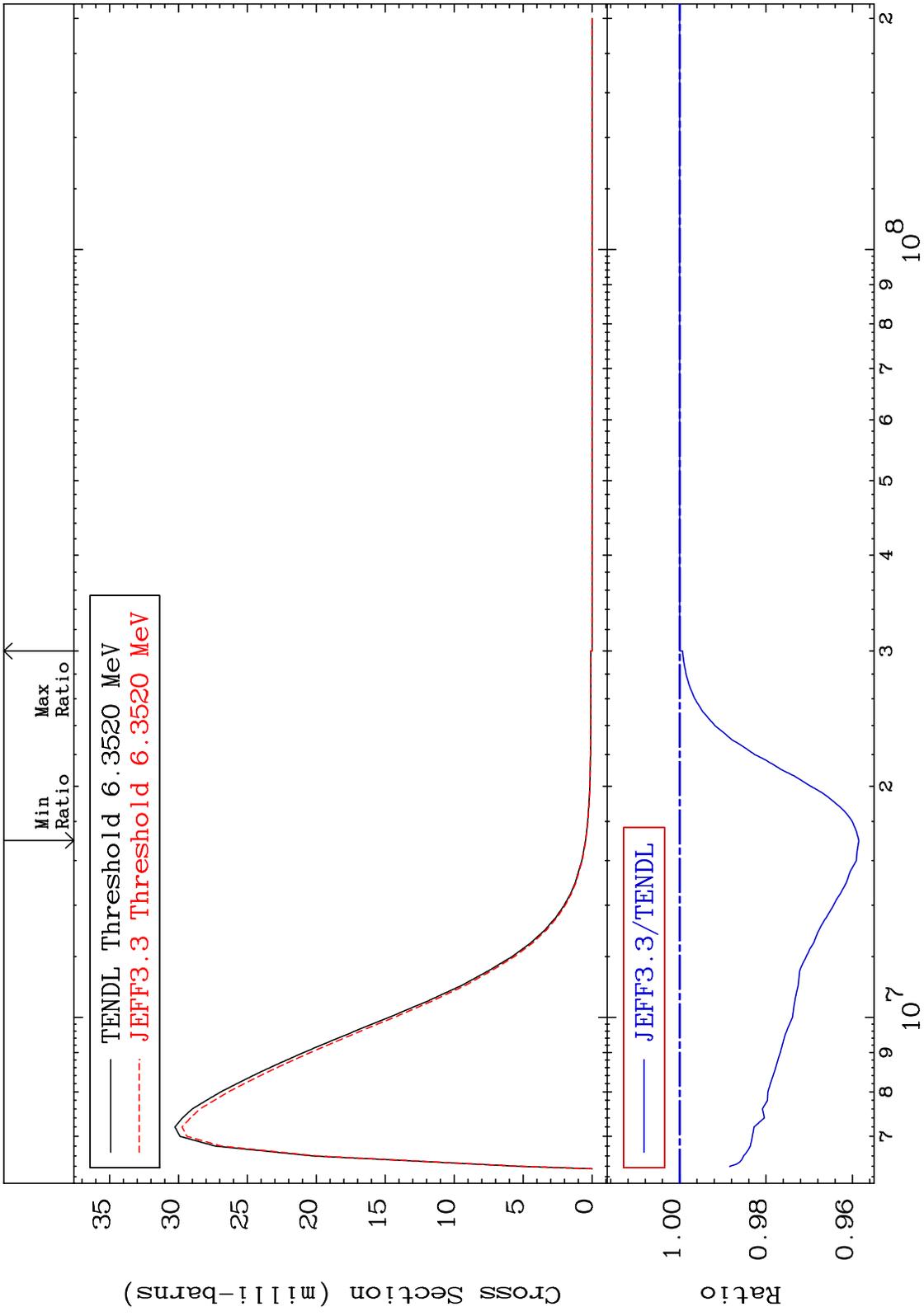


36

Incident Energy (eV)

16-S -34

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

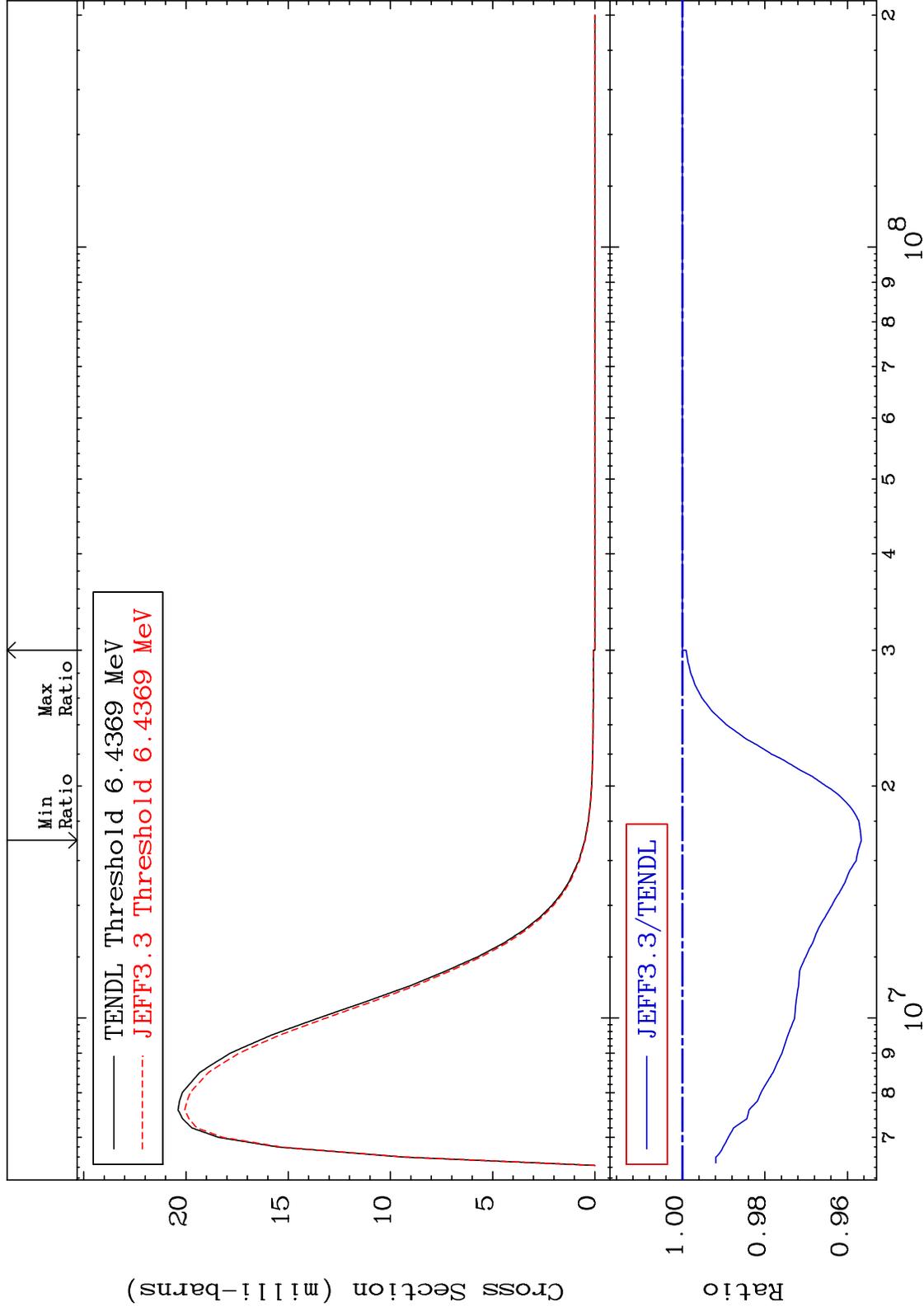


37 16-S -34

MAT 1631

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

16-S -34
-4.338 To 0.000 %



38

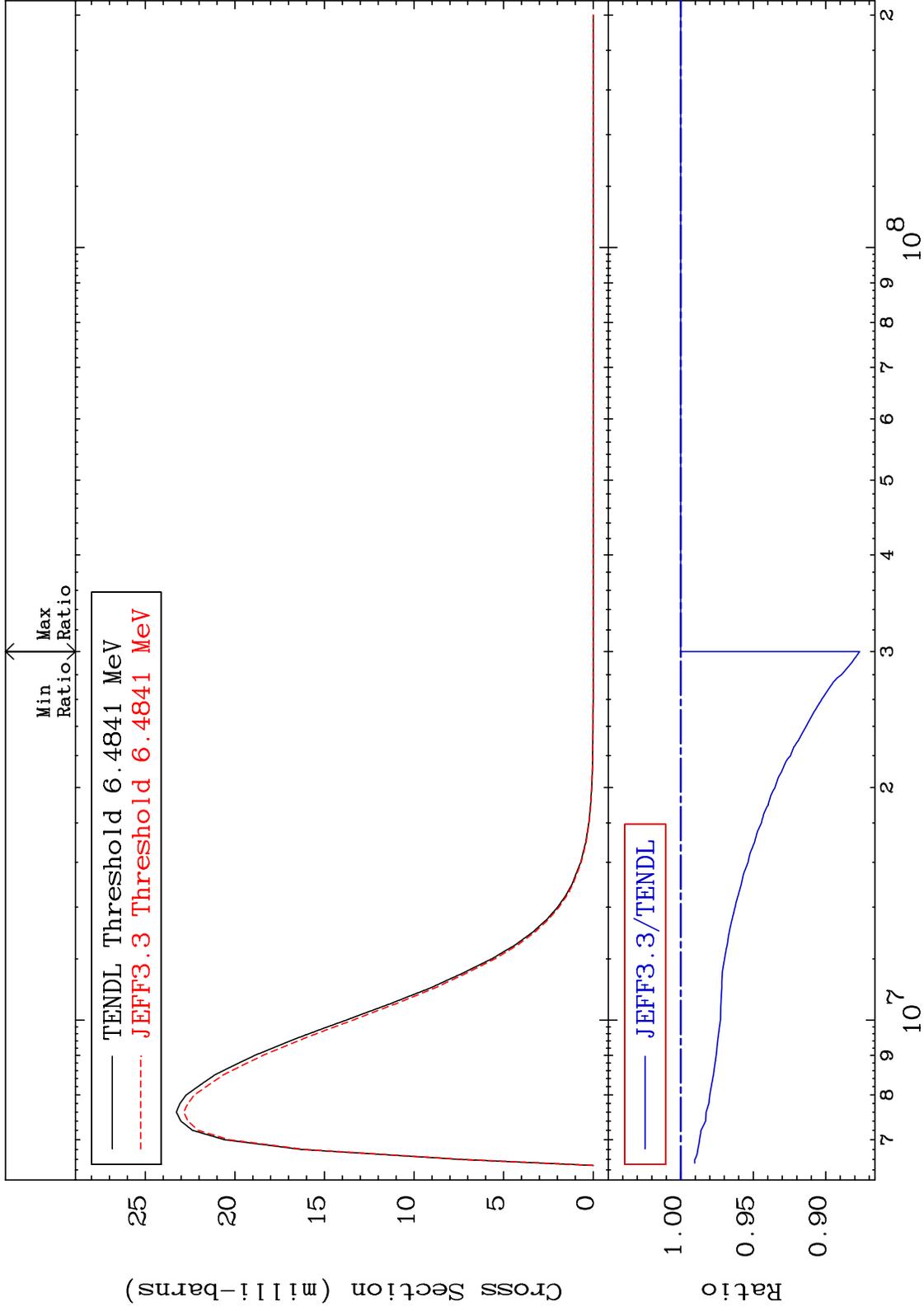
Incident Energy (eV)

16-S -34

MAT 1631

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

16-S -34
-12.34 To 0.000 %



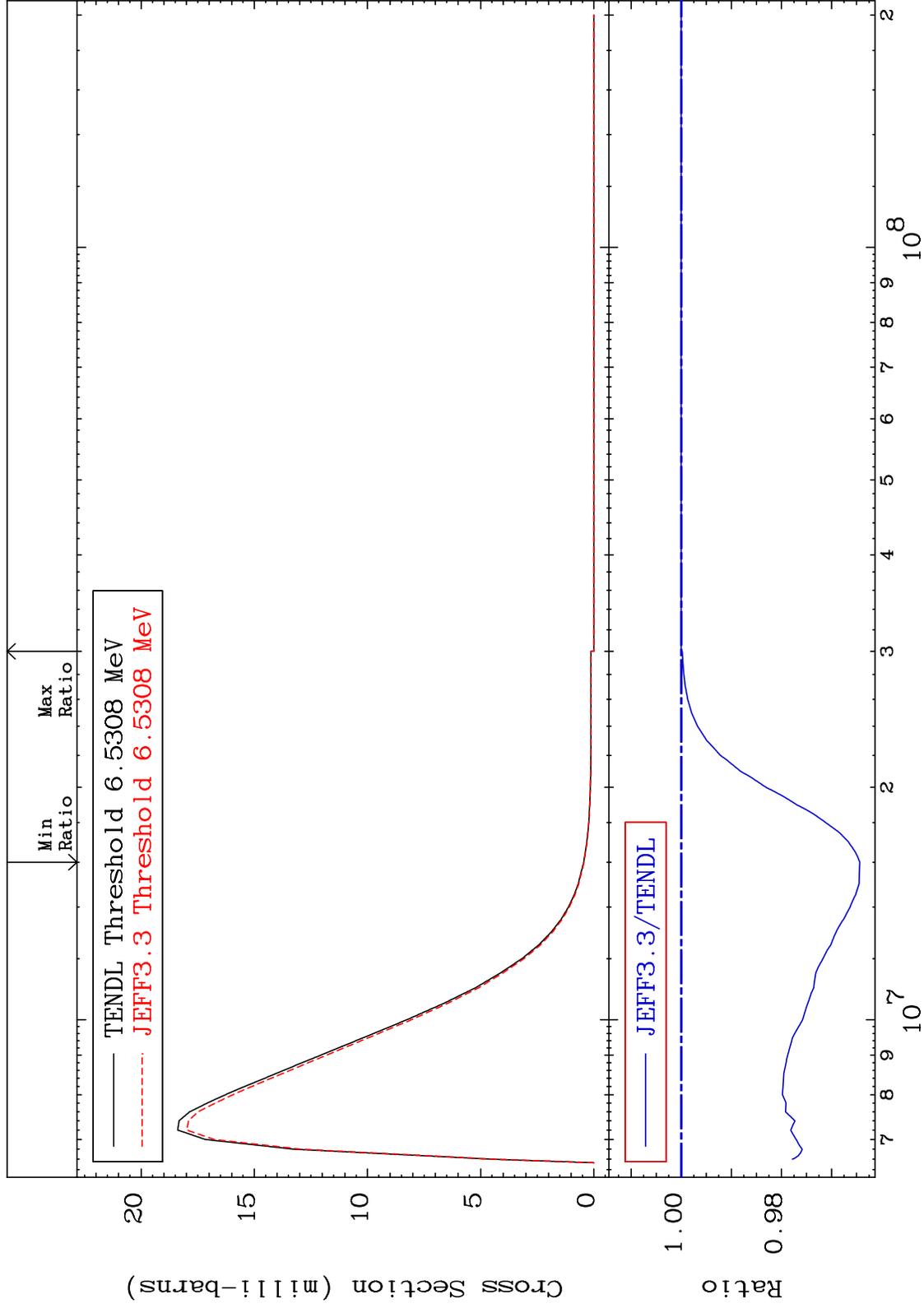
39

16-S -34

MAT 1631

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

16-S -34
-3.564 To 0.000 %

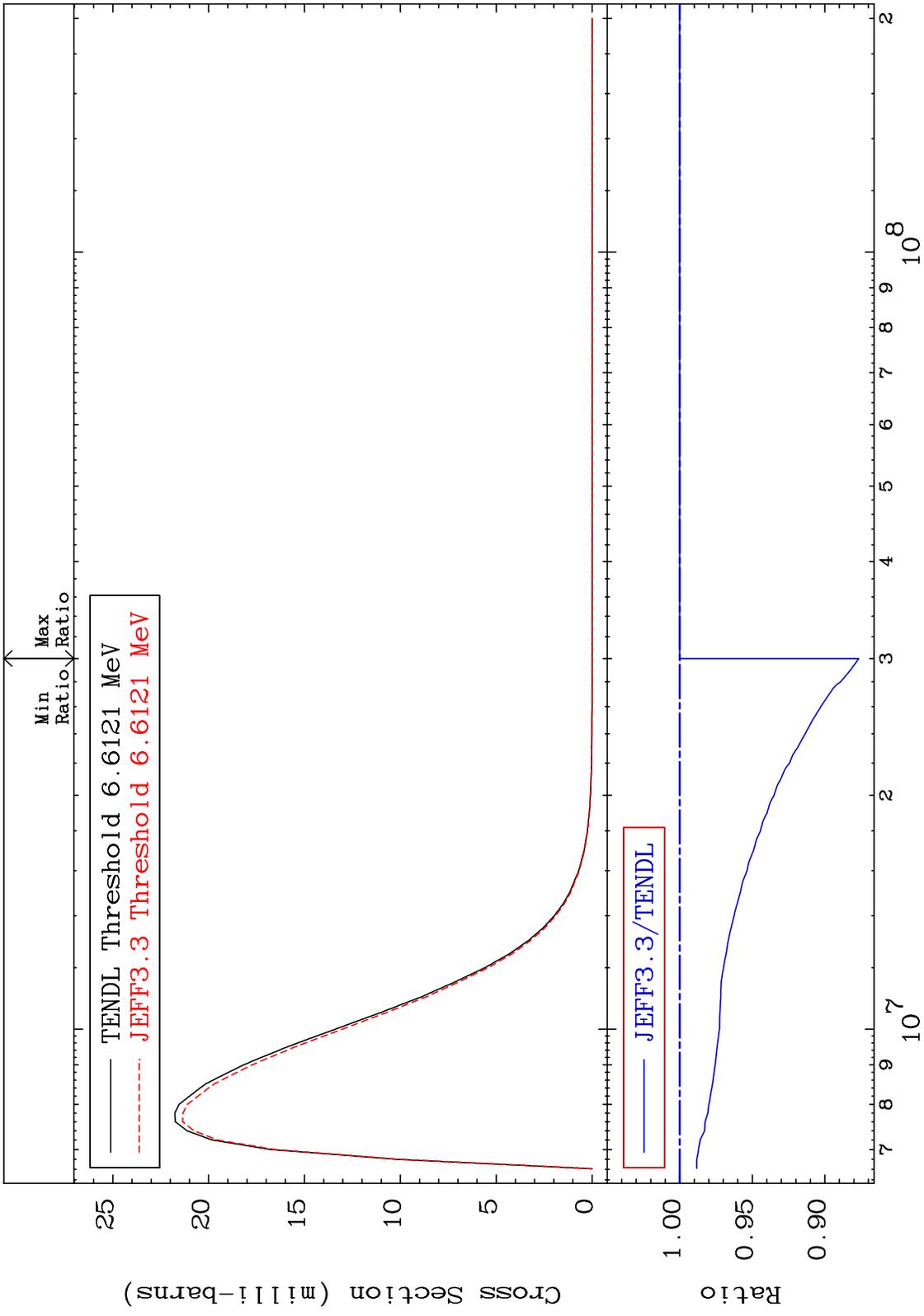


40

Incident Energy (eV)

16-S -34

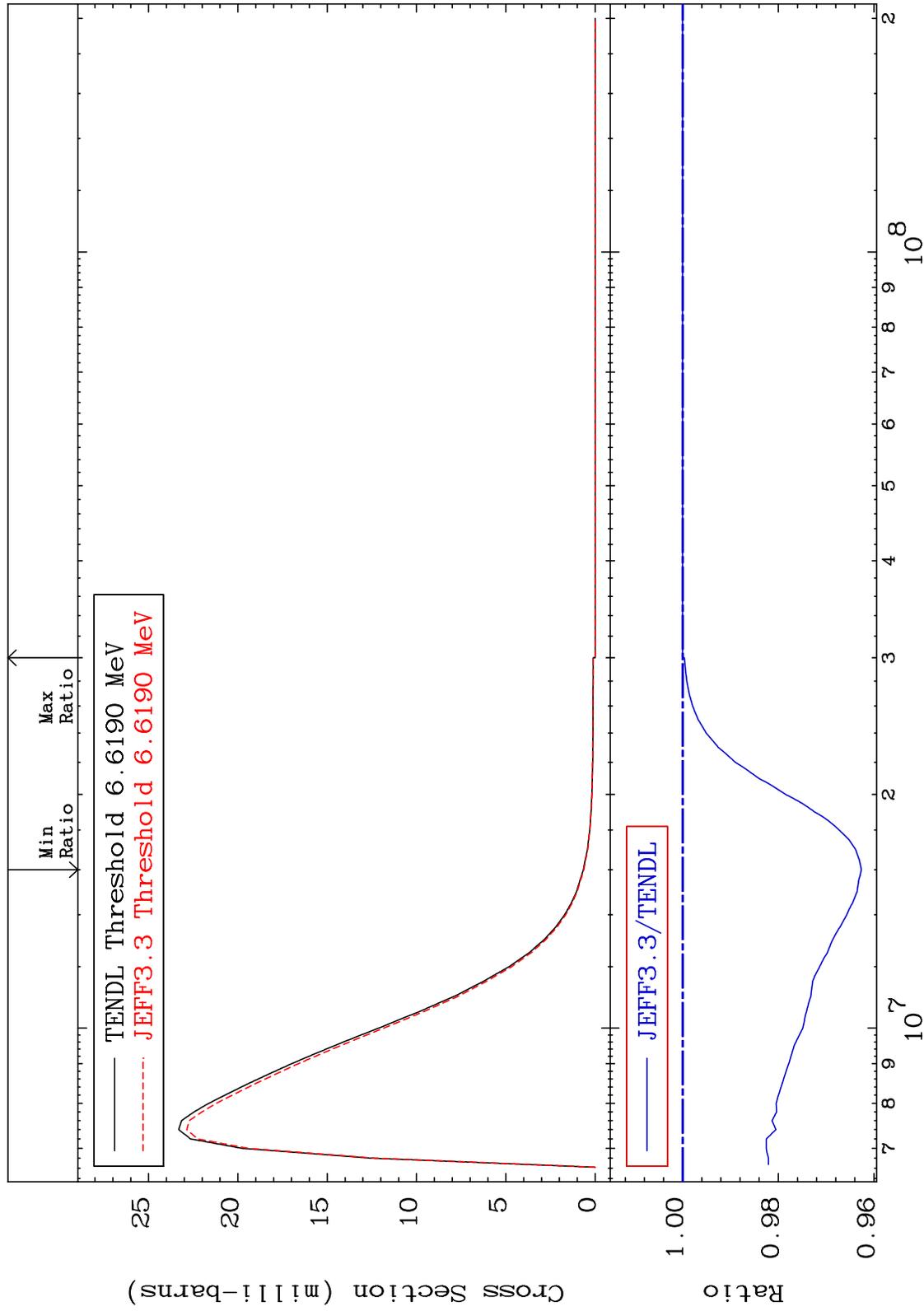
MAT 1631 MT= 74 (n,n') Level Cross Section -12.34 To 0.000 % 16-S -34



MAT 1631

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

16-S -34
-3.737 To 0.000 %



42

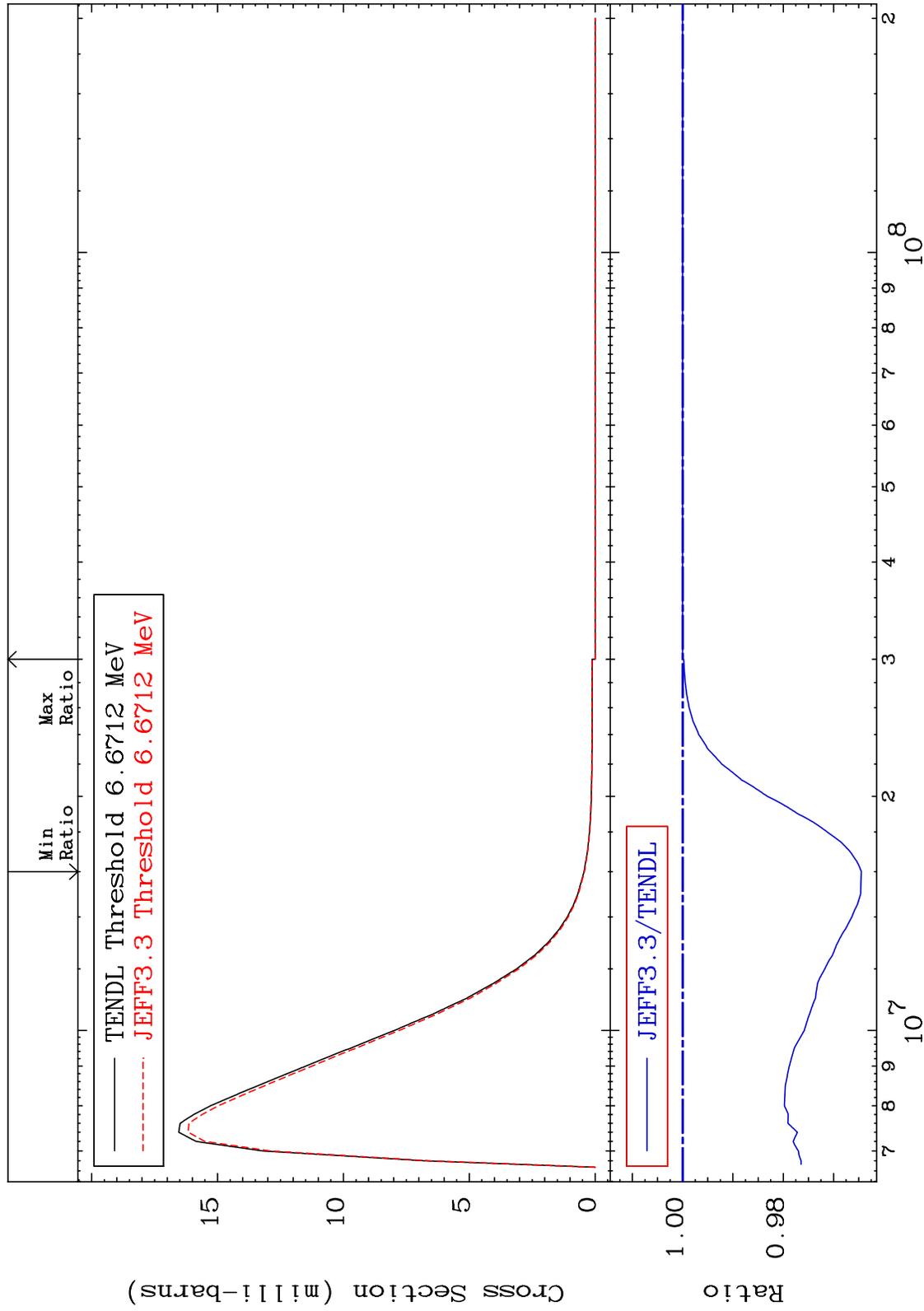
Incident Energy (eV)

16-S -34

MAT 1631

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

16-S -34
-3.554 To 0.000 %

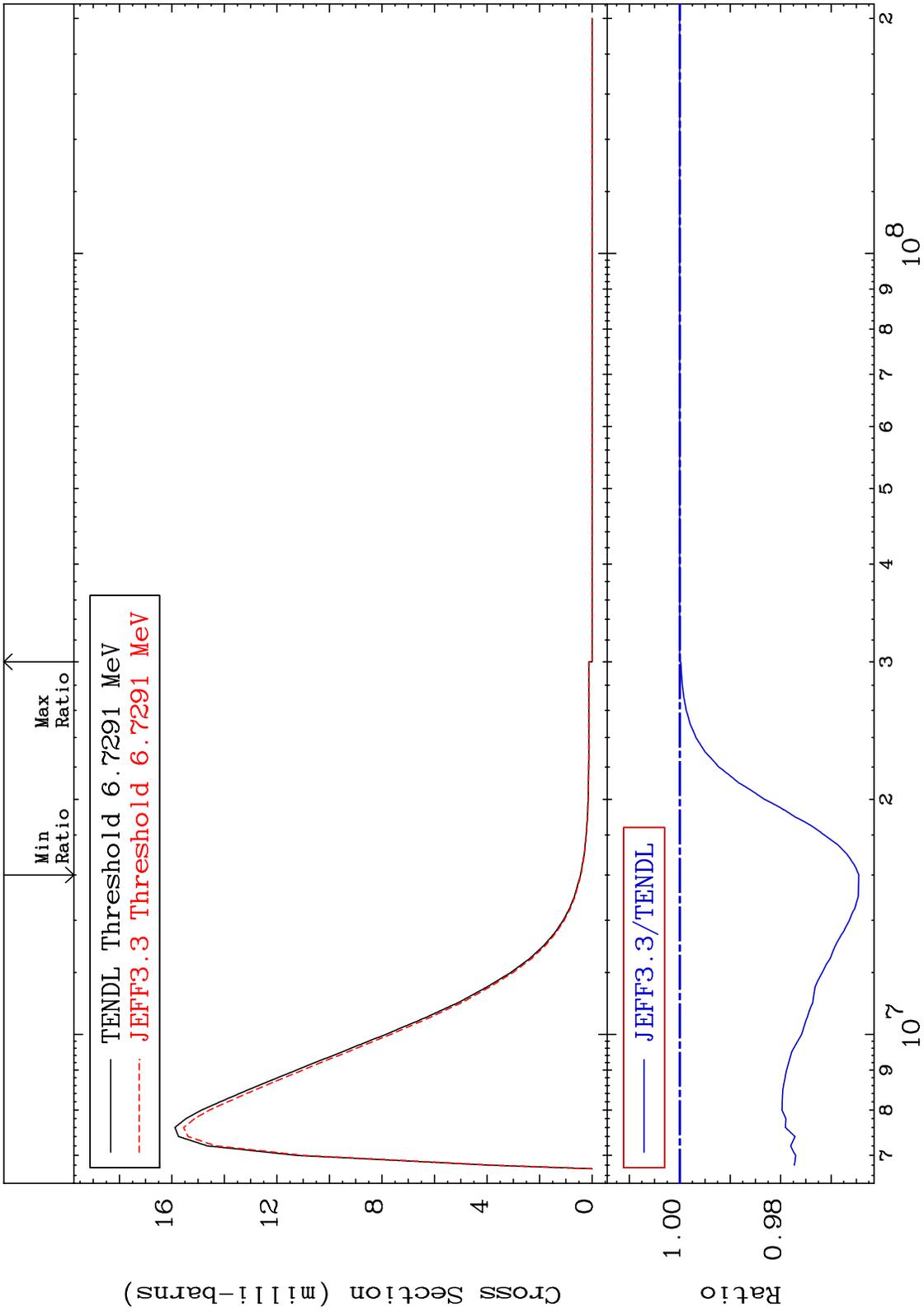


43

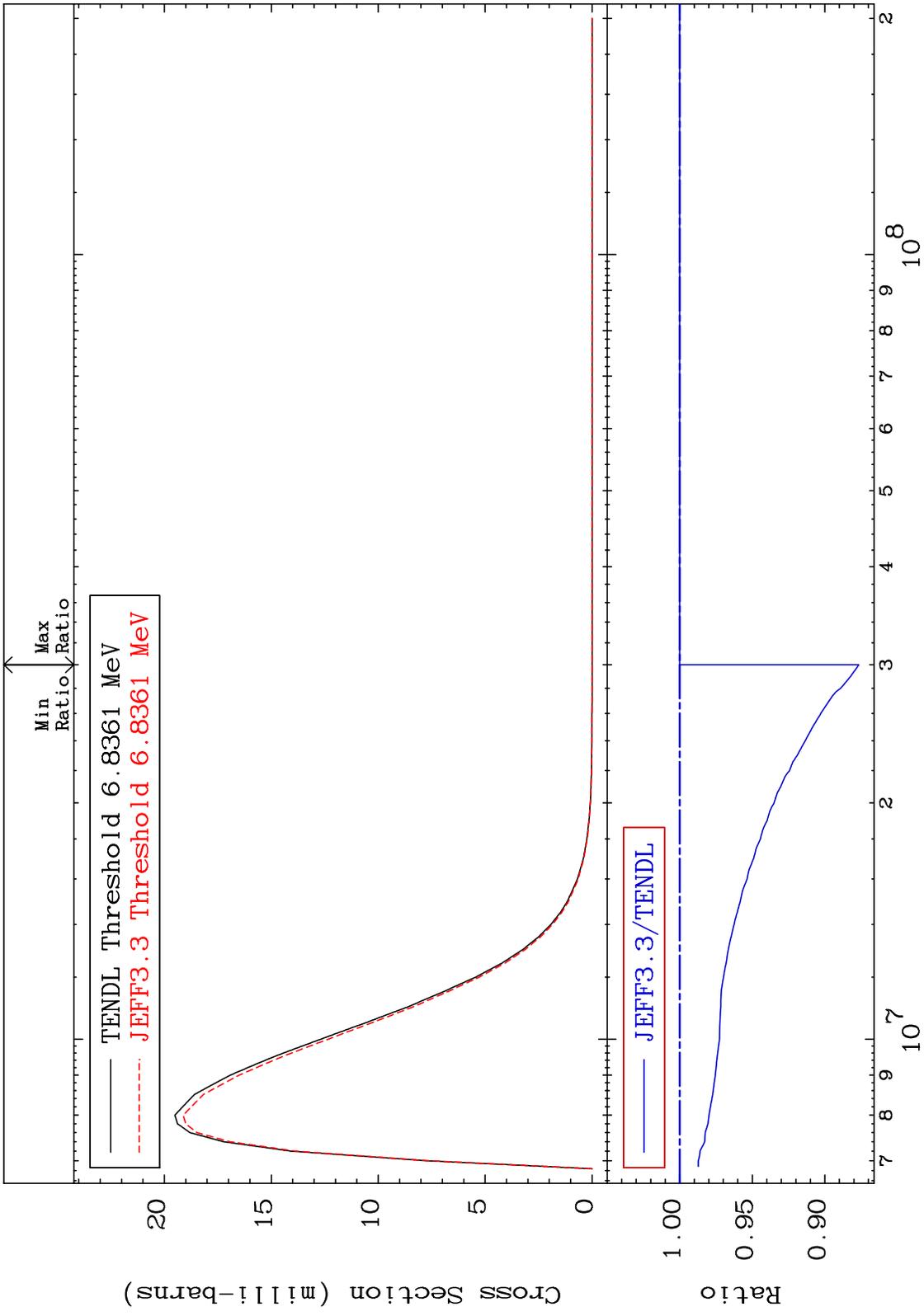
Incident Energy (eV)

16-S -34

MAT 1631 MT= 77 (n,n') Level Cross Section 16-S -34
 -3.550 To 0.000 %



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

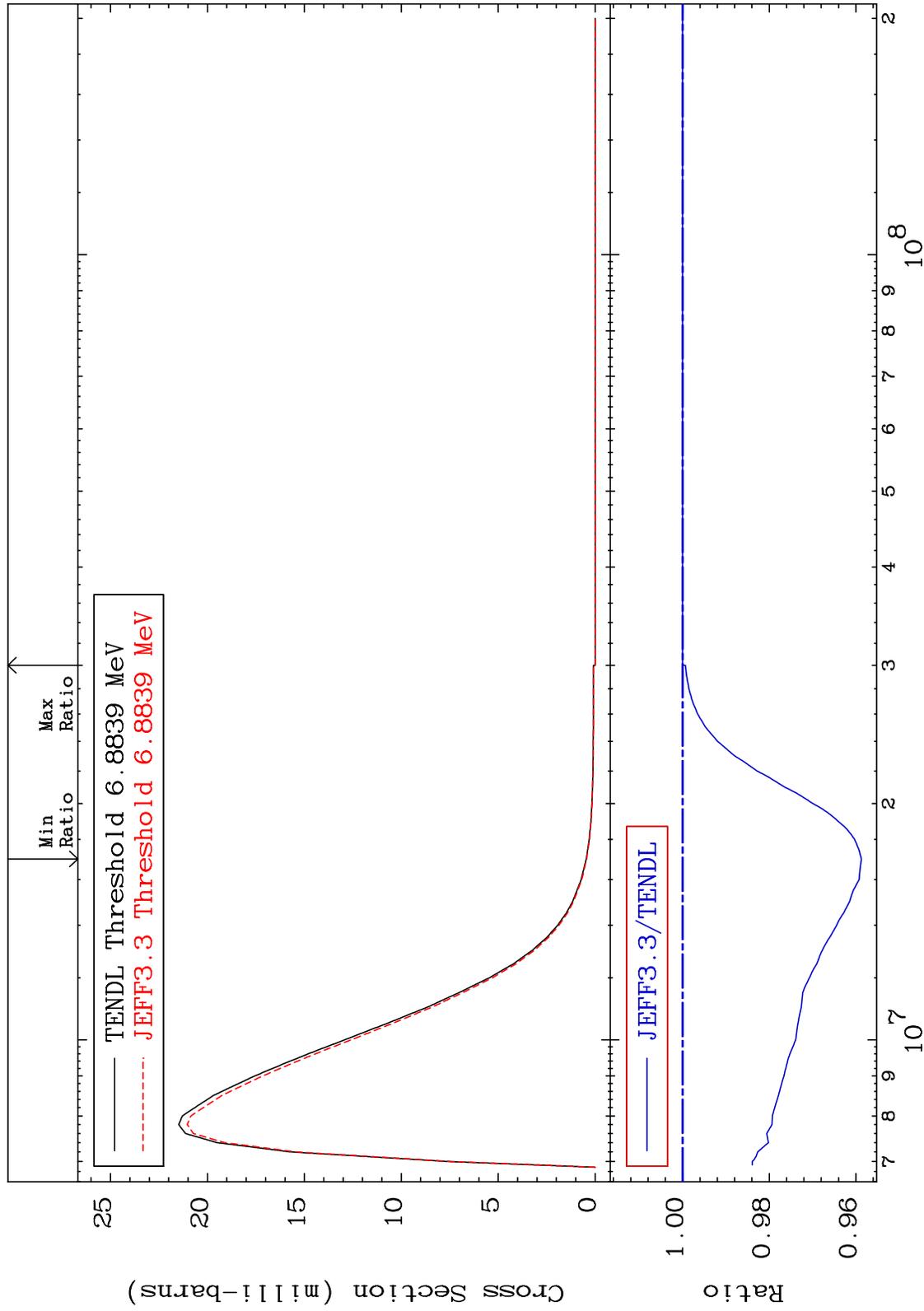


45 Incident Energy (eV) 16-S -34

MAT 1631

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

16-S -34
-4.128 To 0.000 %



46

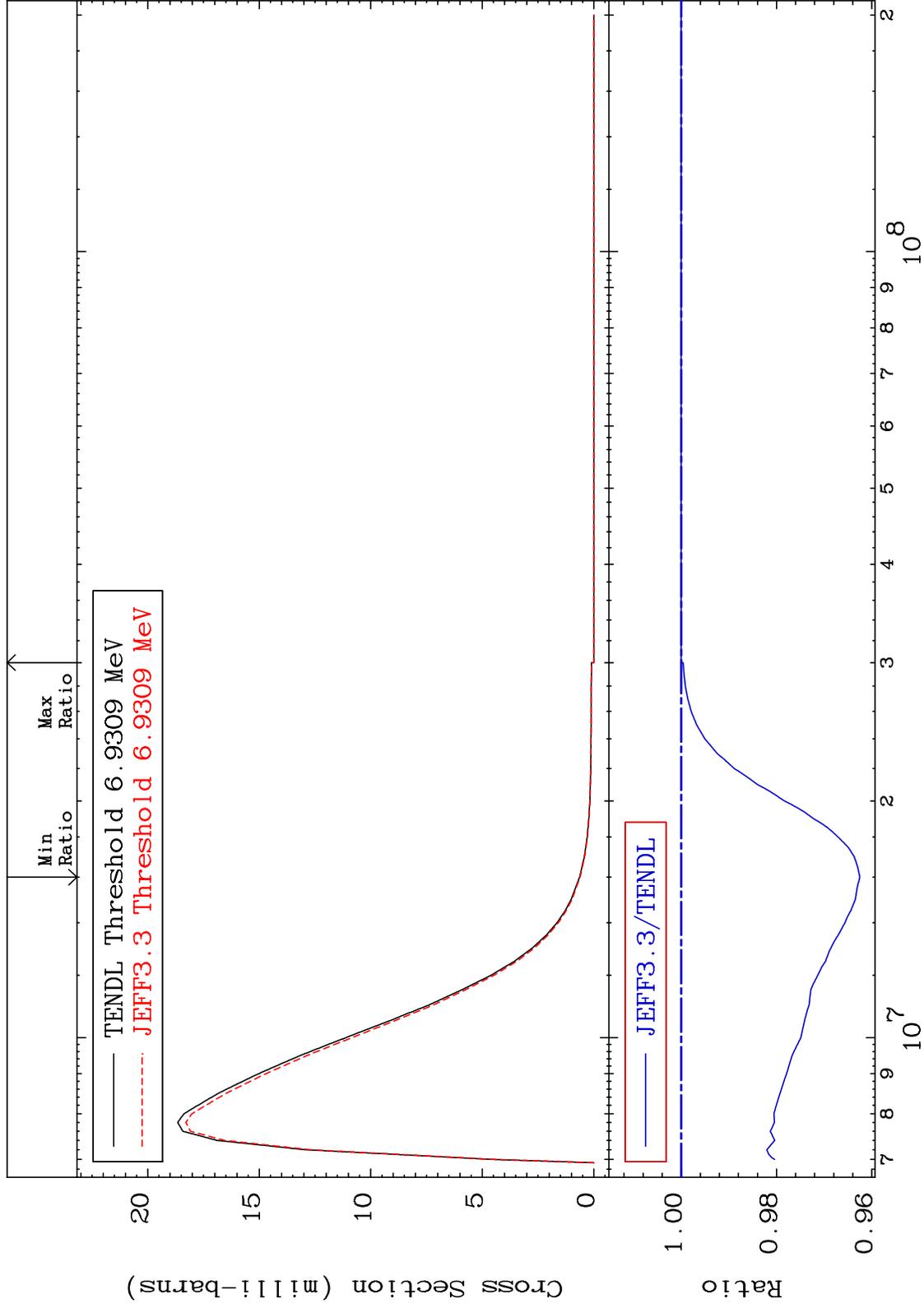
Incident Energy (eV)

16-S -34

MAT 1631

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

16-S -34
-3.748 To 0.000 %



47

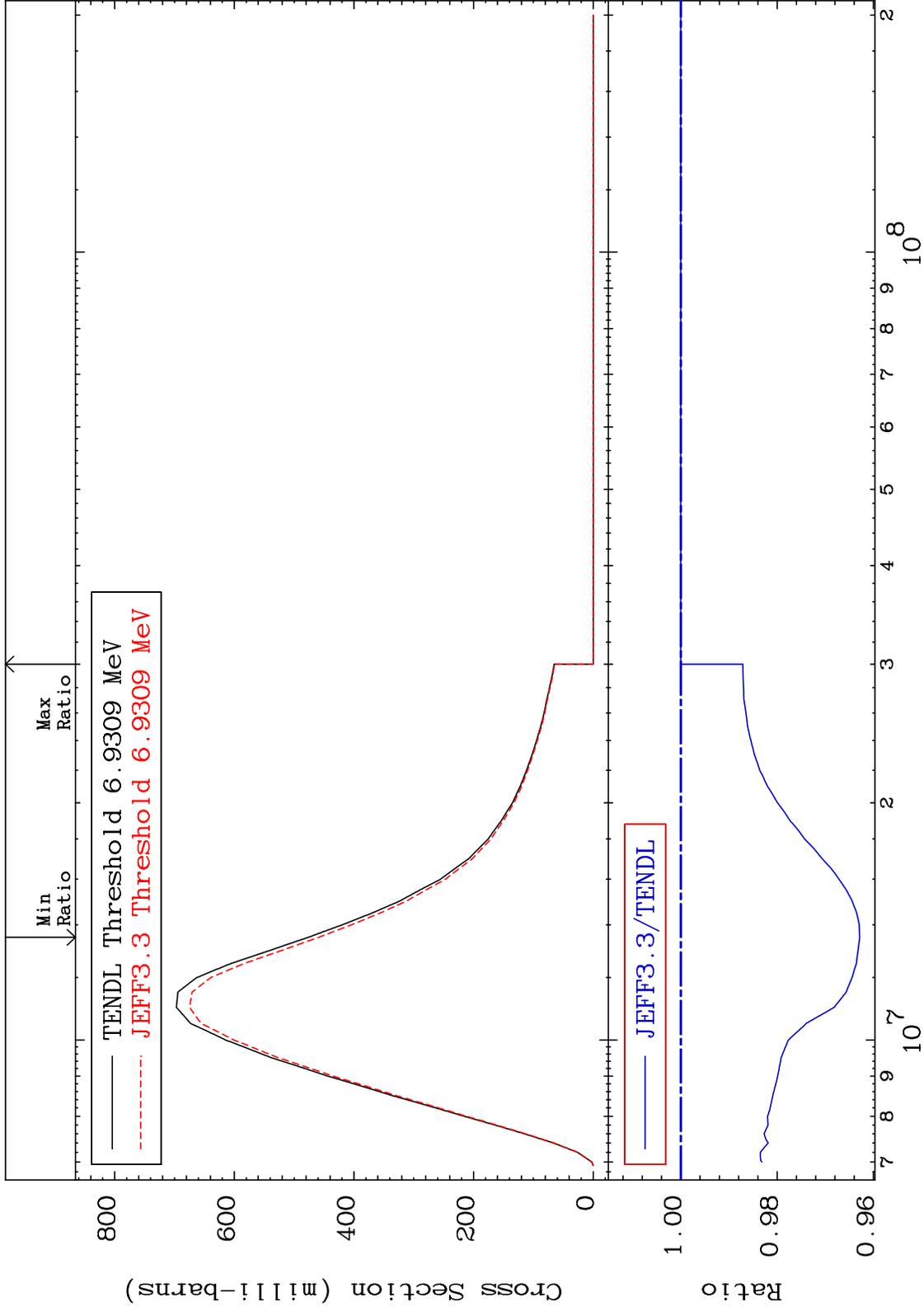
Incident Energy (eV)

16-S -34

MAT 1631

(n,n') Continuum
Cross Section

16-S -34
-3.713 To 0.000 %



48

16-S -34

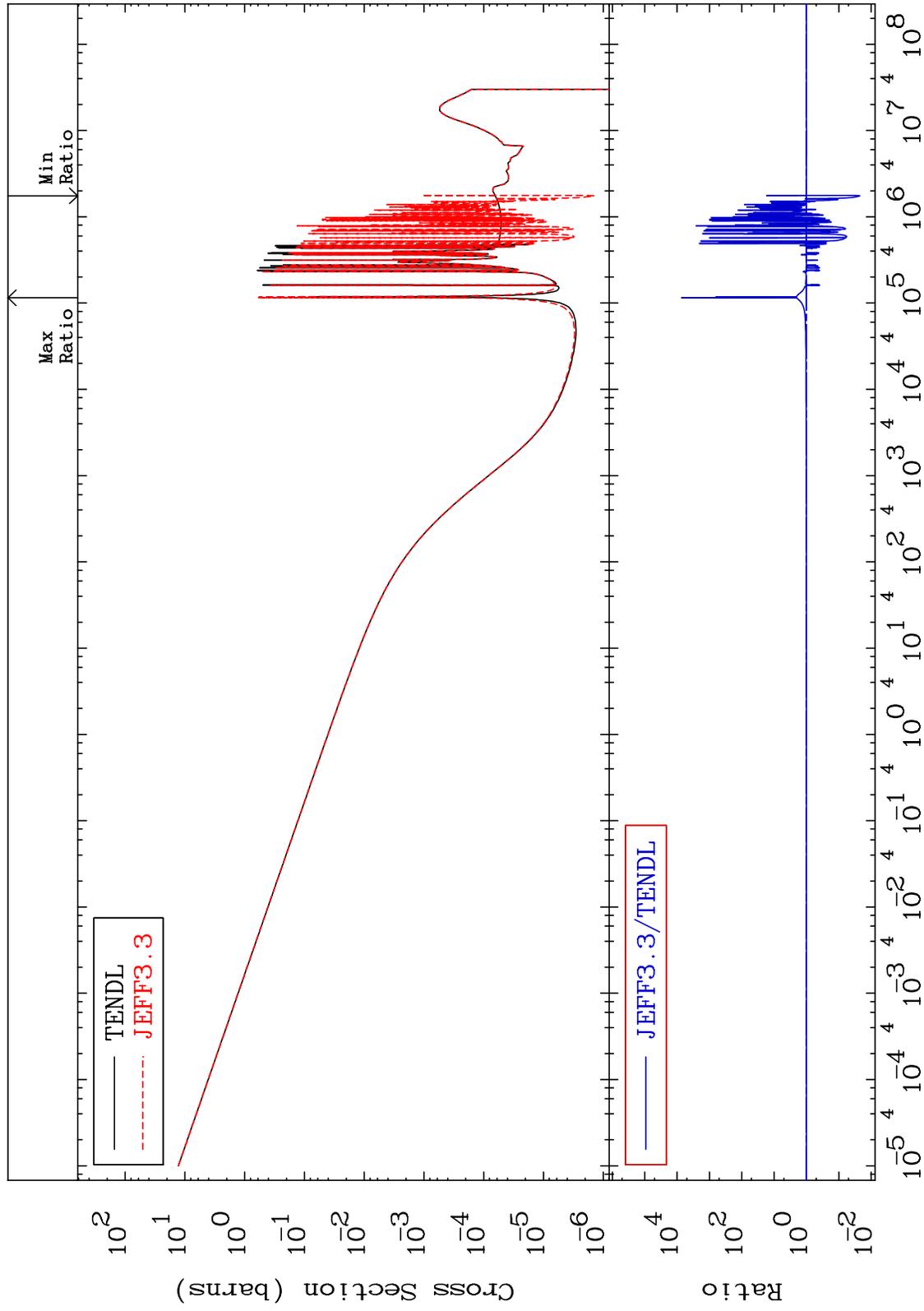
MAT 1631

(n, γ)

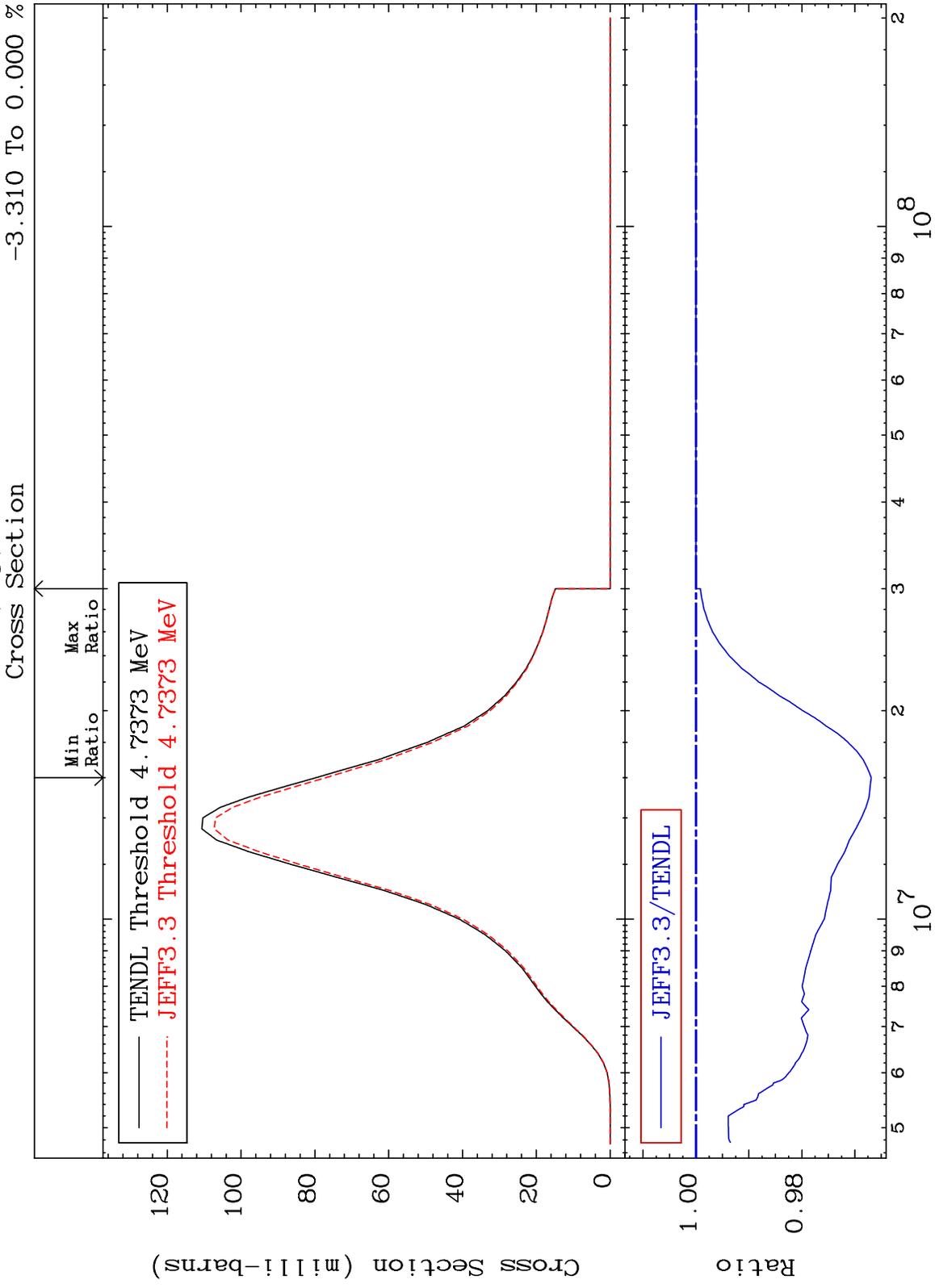
16-S -34

Cross Section

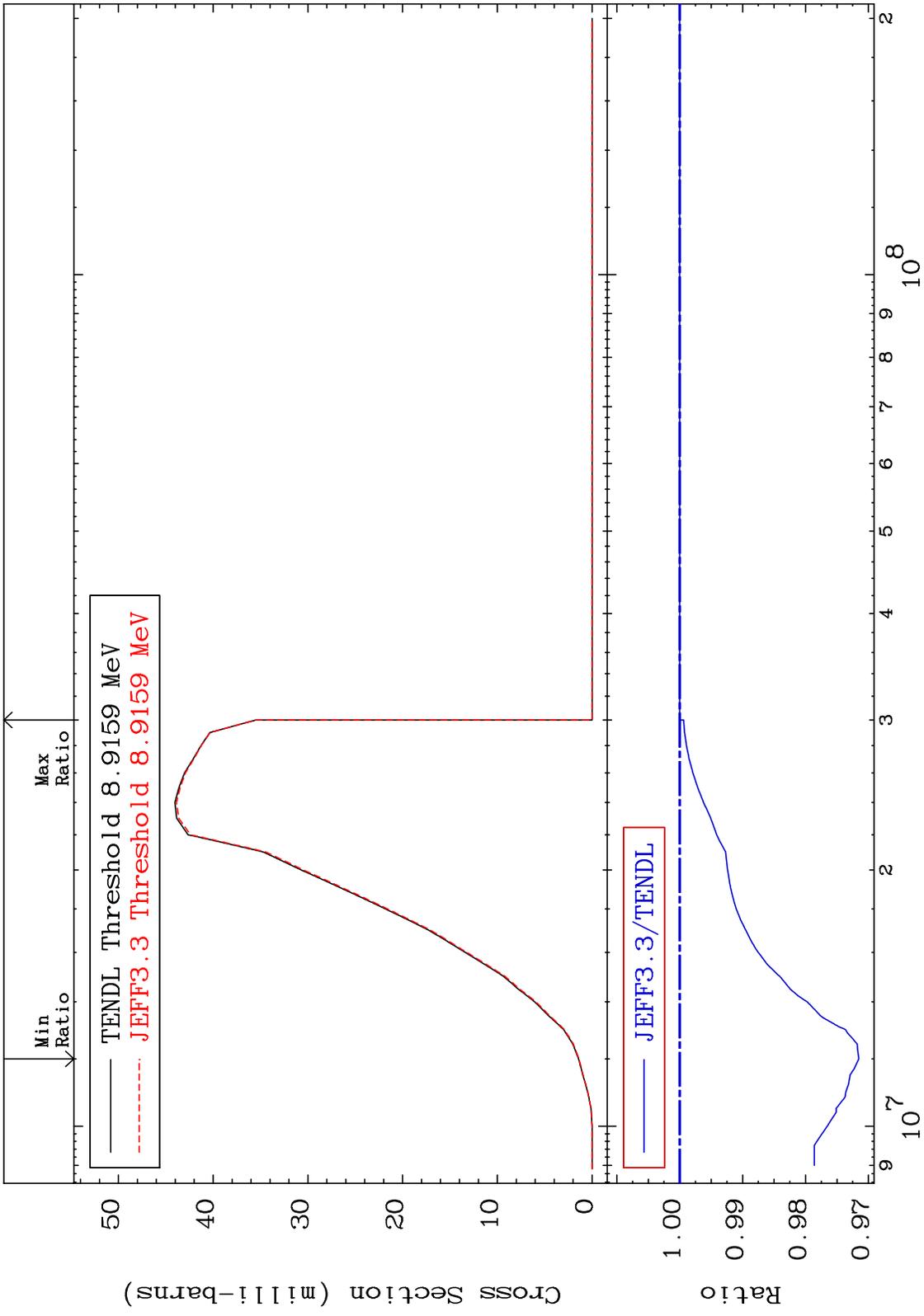
-97.77 To 9999. %

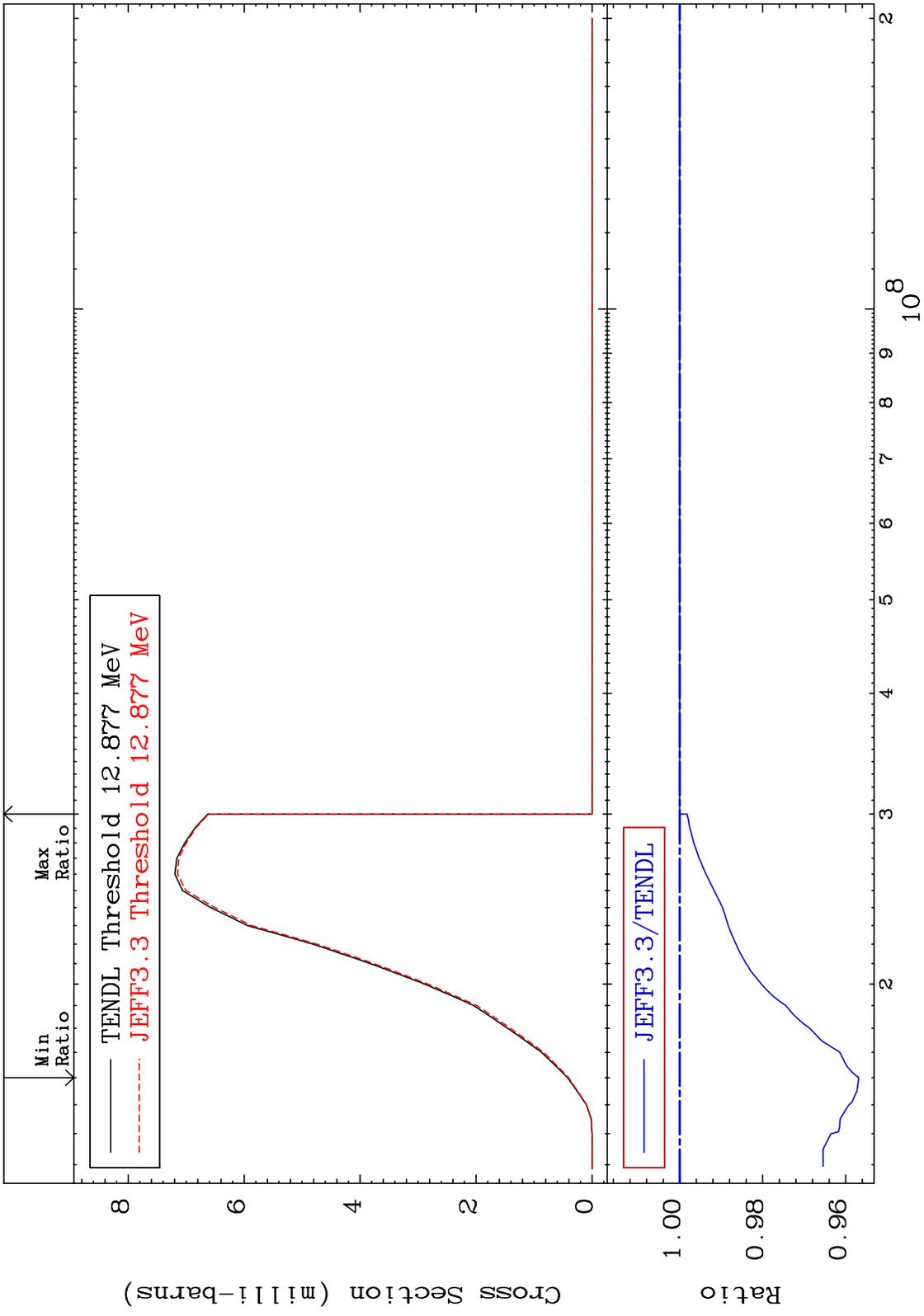


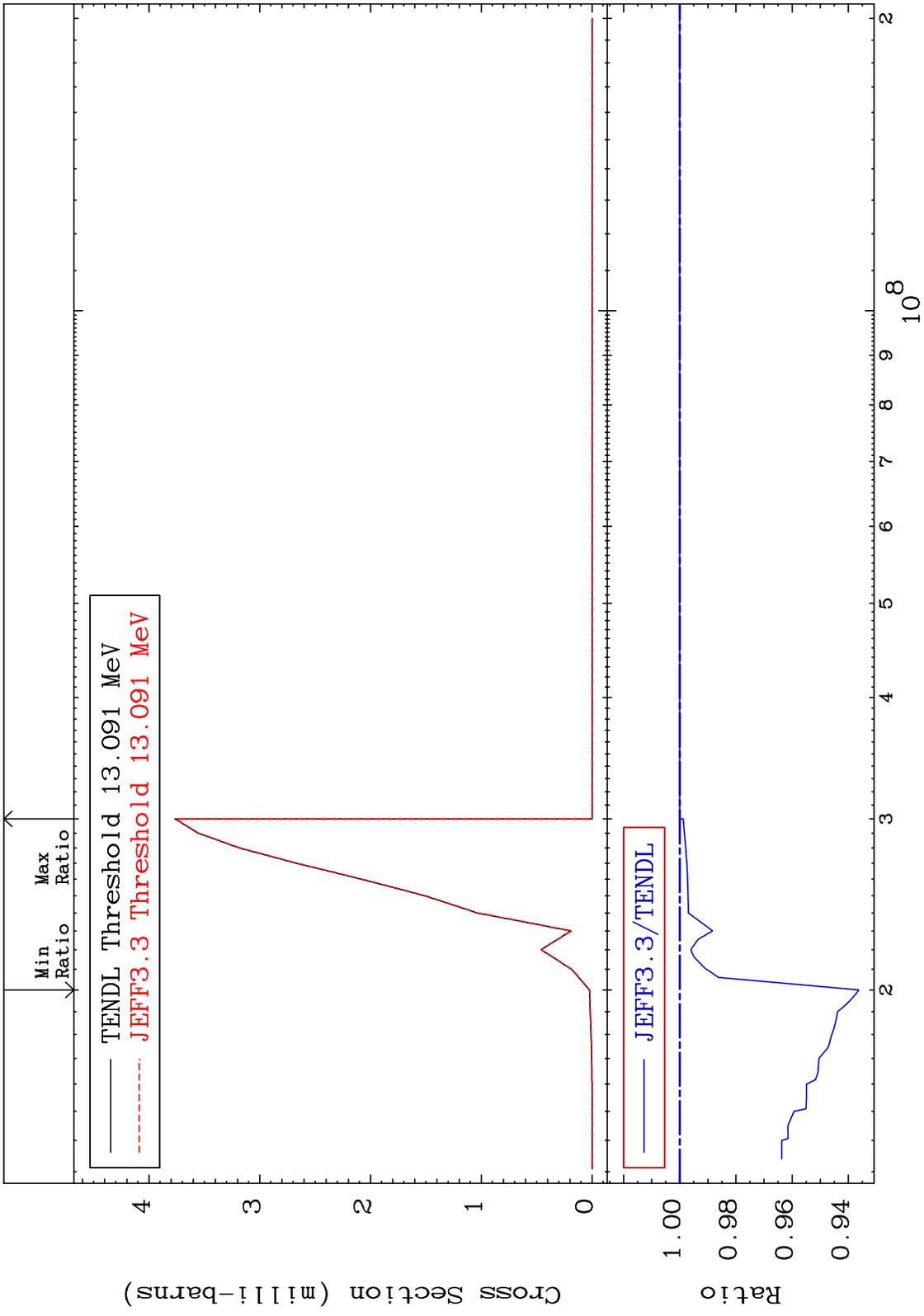
MAT 1631 (n,p) 16-S -34 -3.310 To 0.000 %

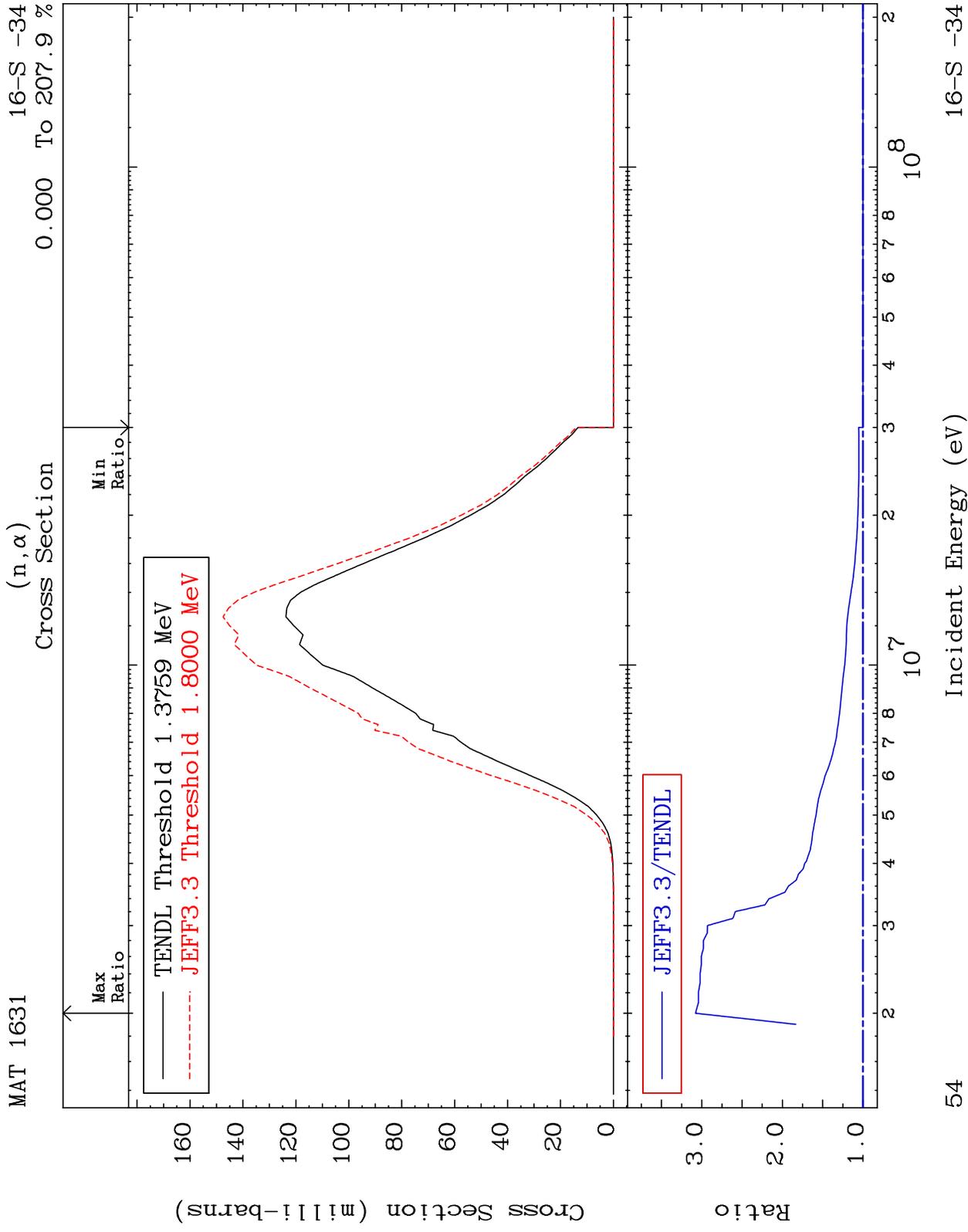


50 16-S -34

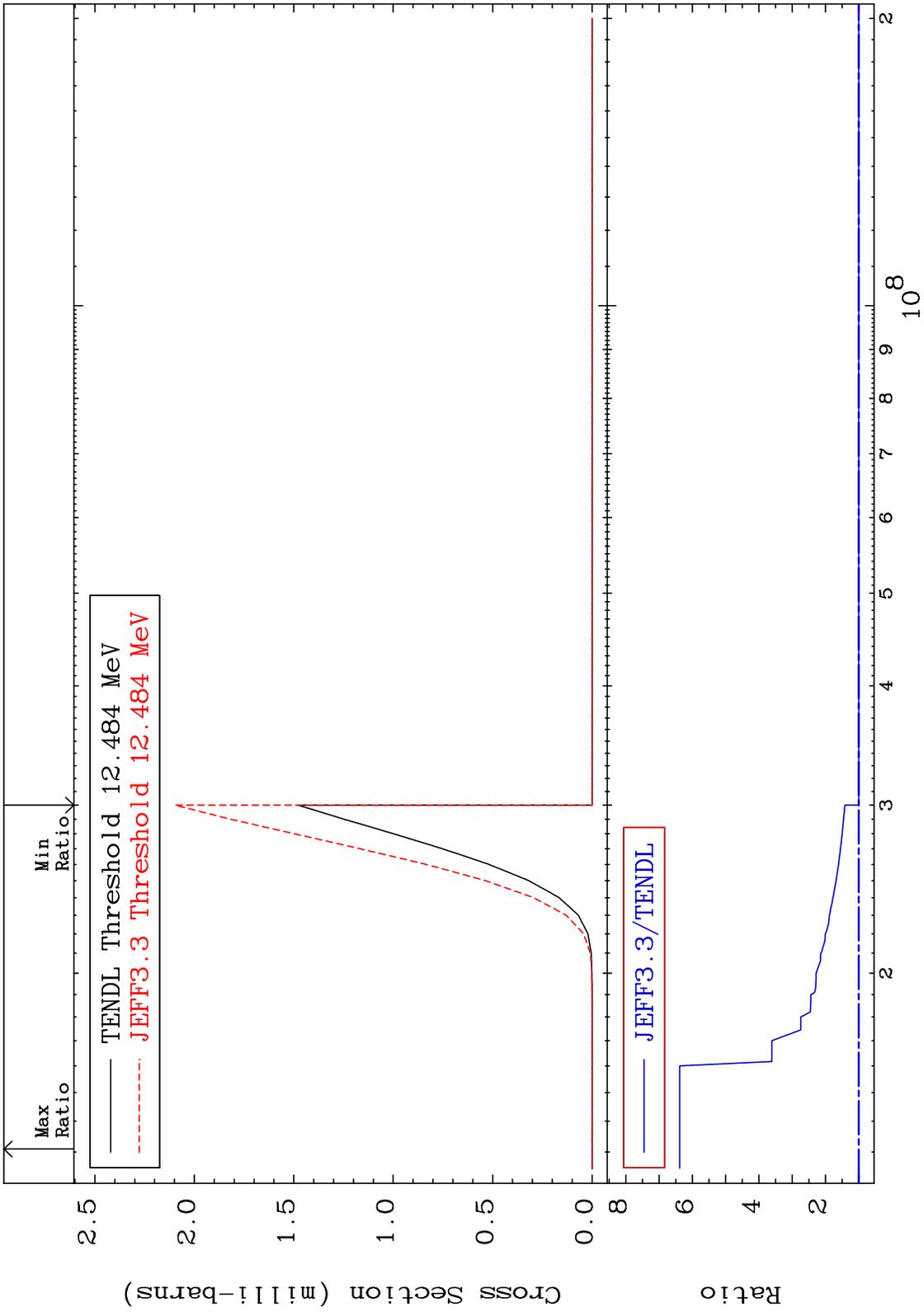




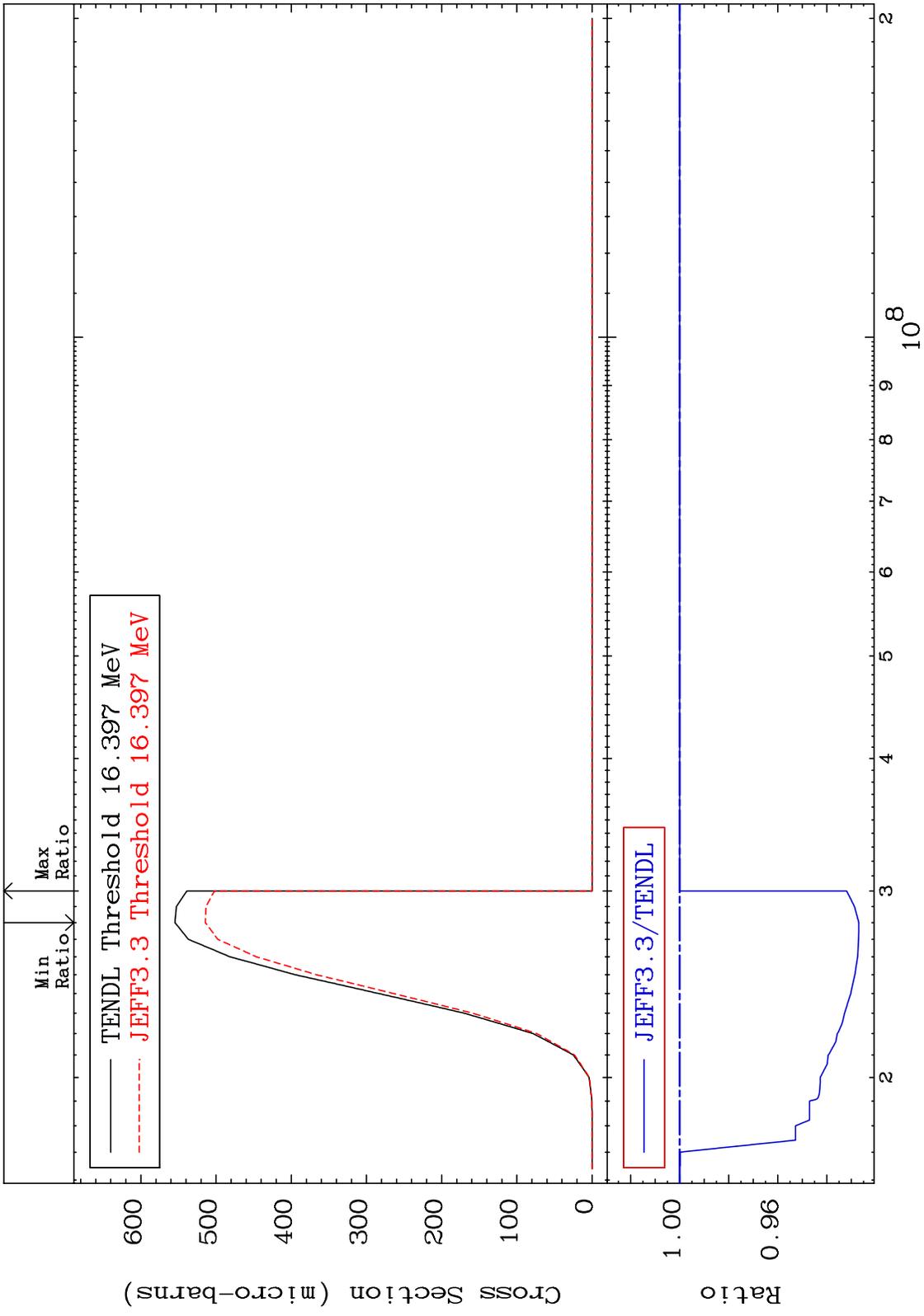




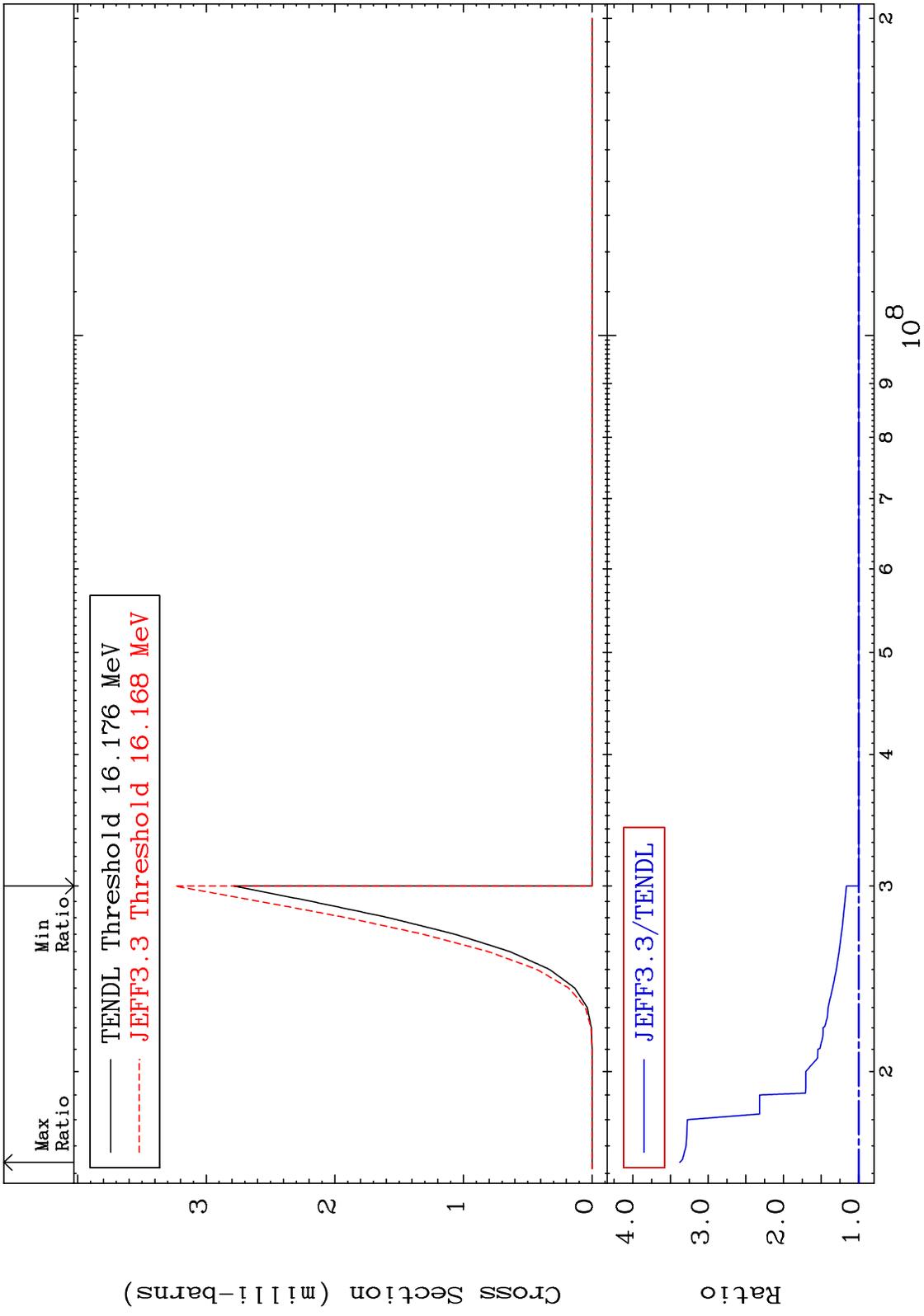
MAT 1631 $(n, 2\alpha)$ Cross Section 16-S -34 To 538.1 %

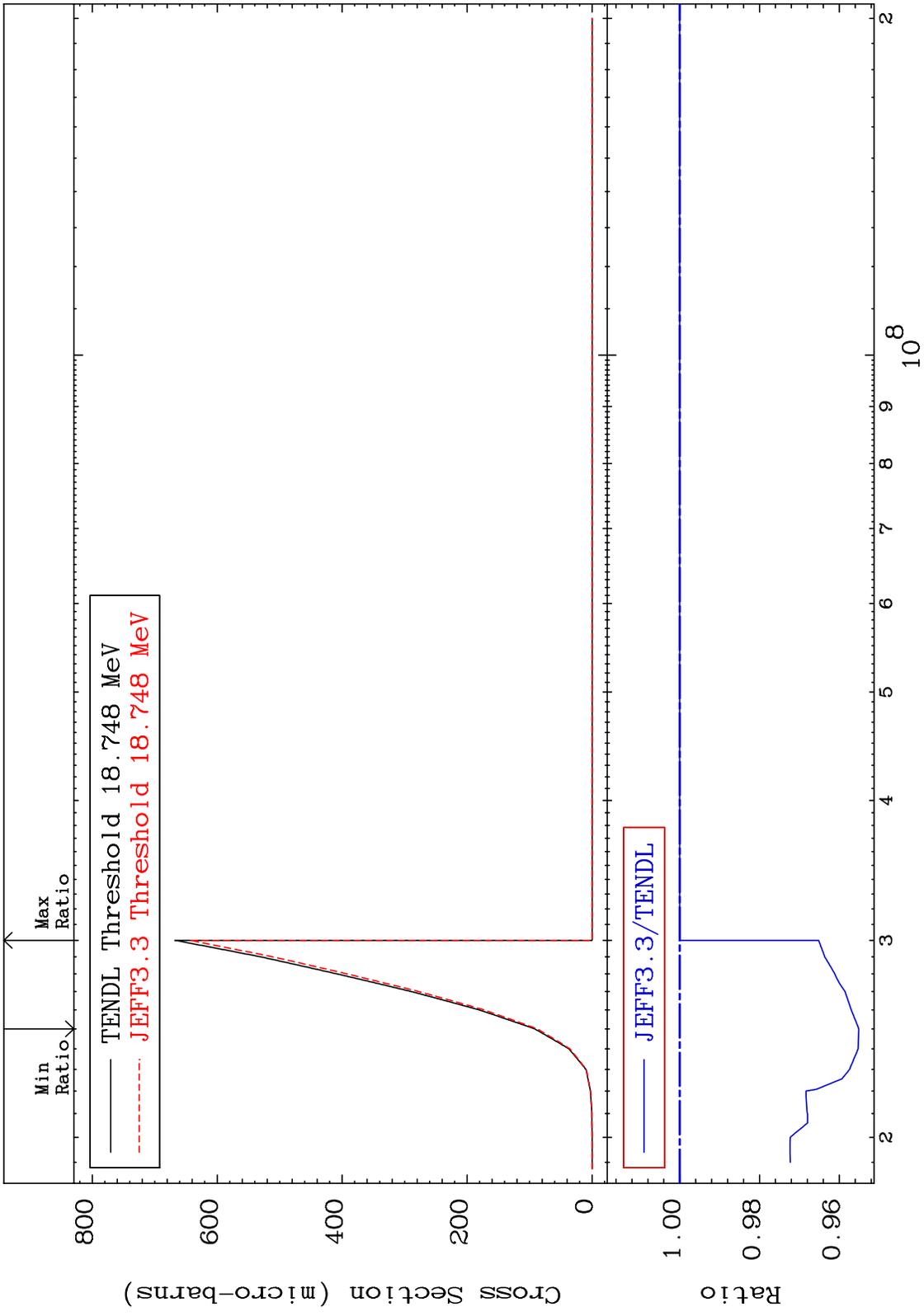


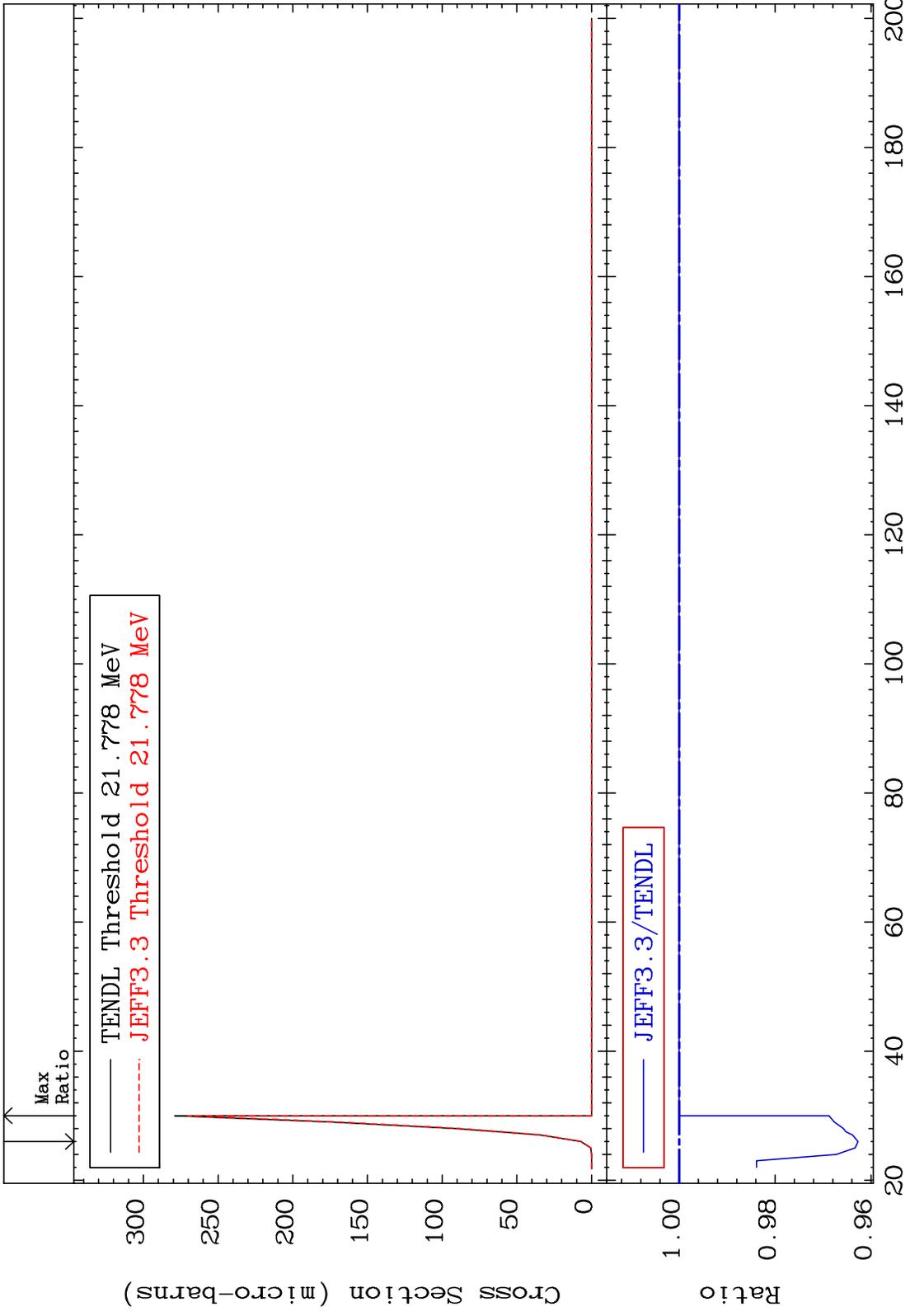
MAT 1631 (n,2p) 16-S -34
 Cross Section -7.307 To 0.000 %



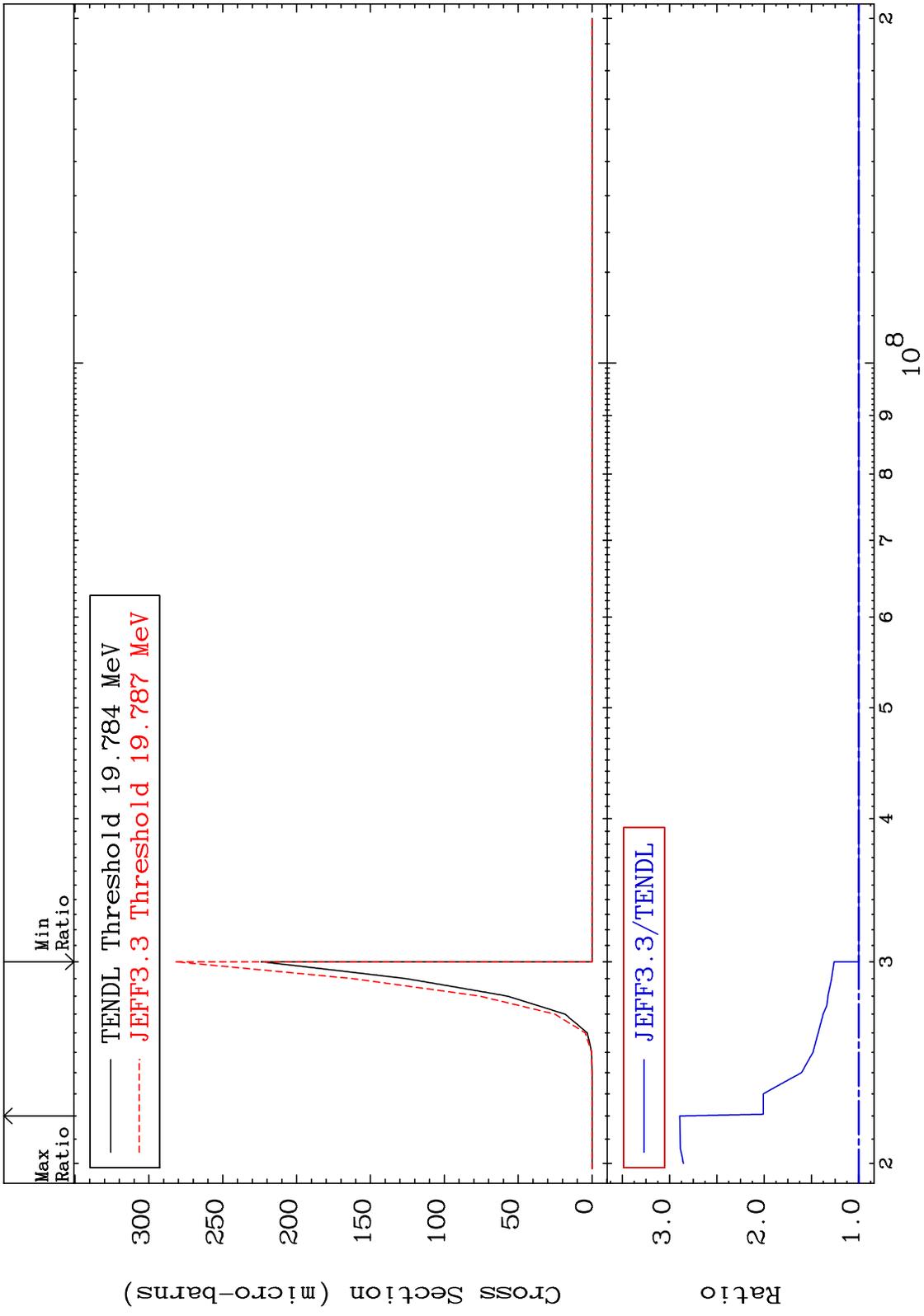
MAT 1631 $(n,p) \alpha$ 16-S -34
 Cross Section 0.000 To 237.7 %





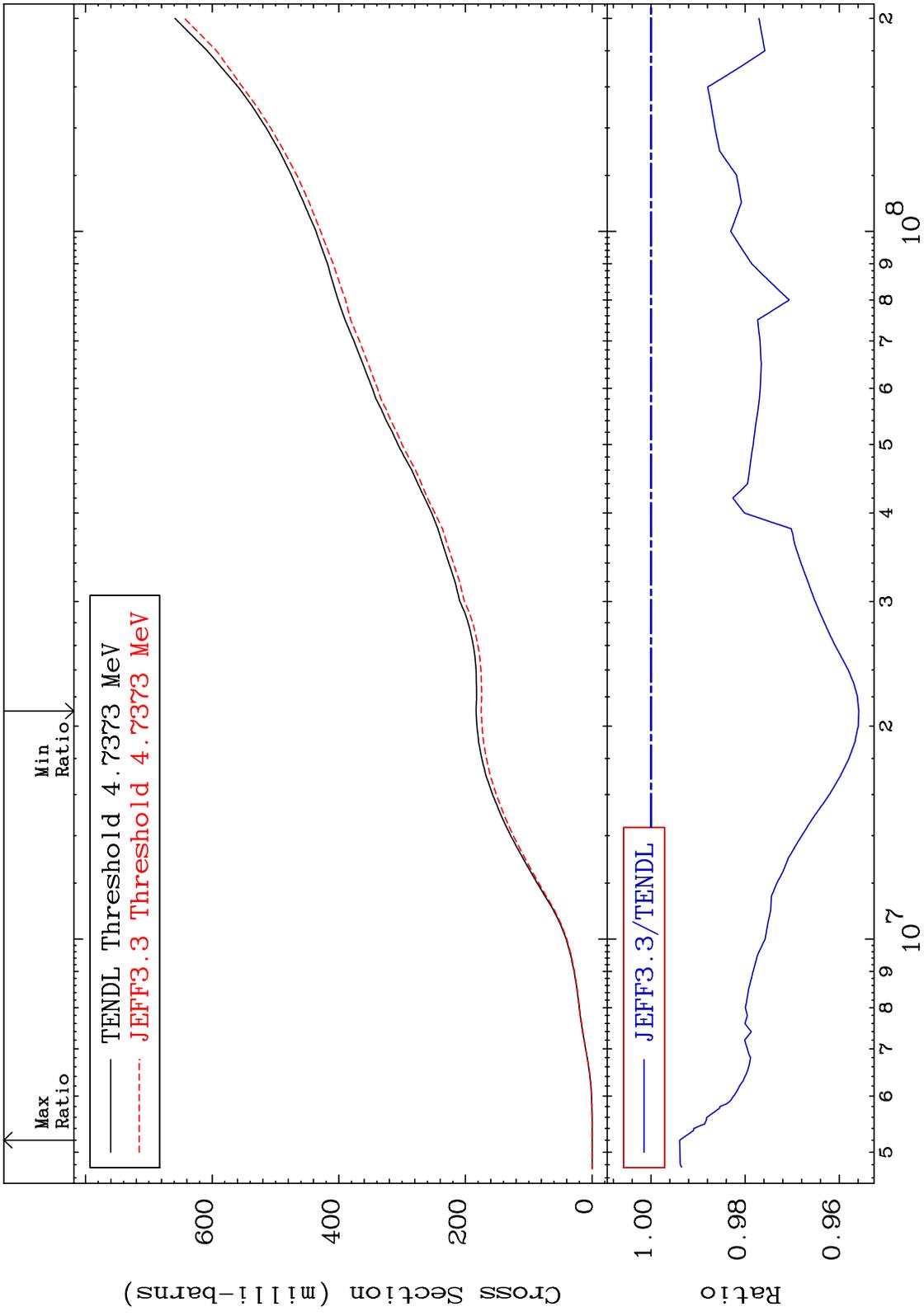


MAT 1631 $(n,d) \alpha$ 16-S -34
 Cross Section 0.000 To 189.2 %



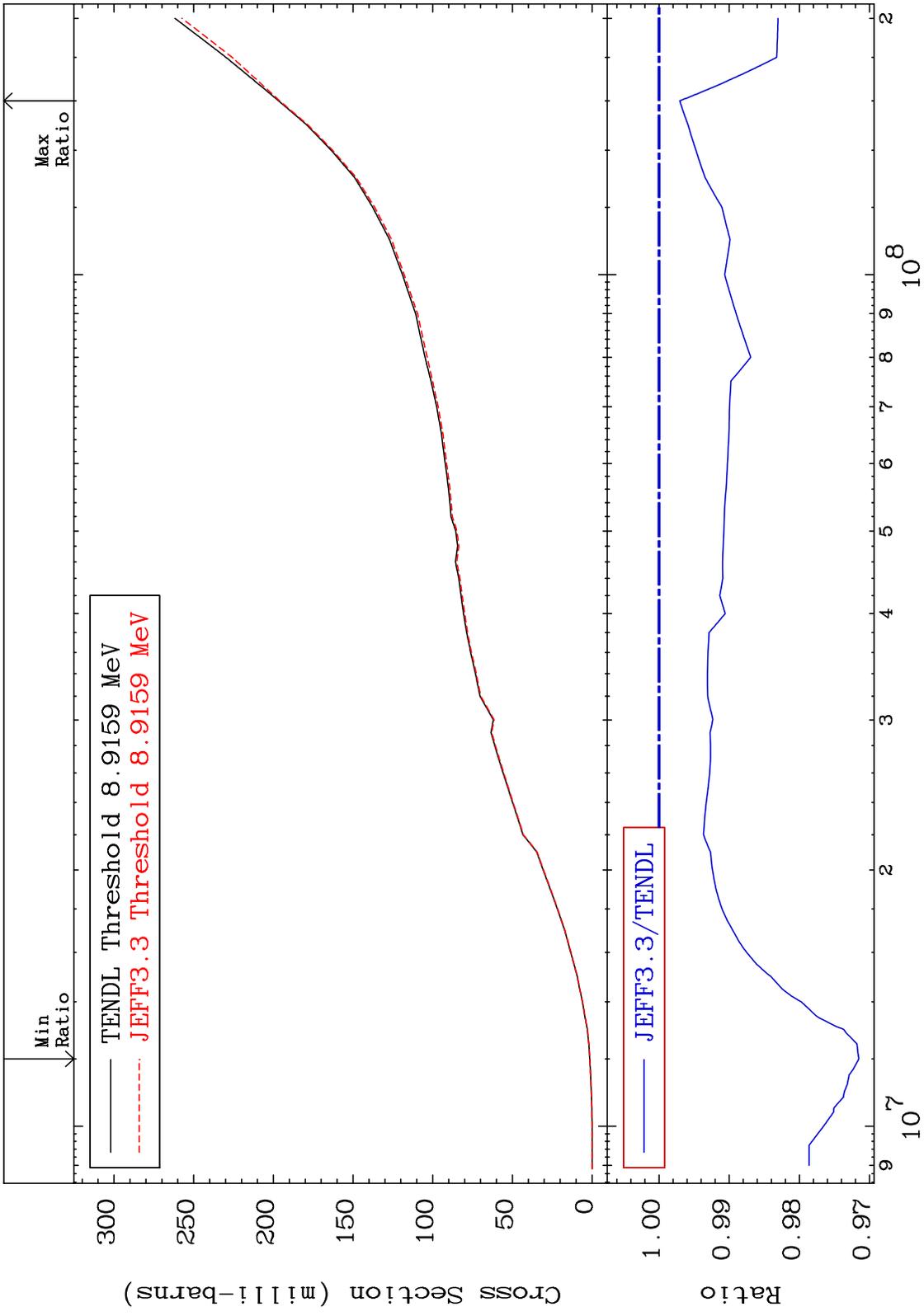
60 16-S -34

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



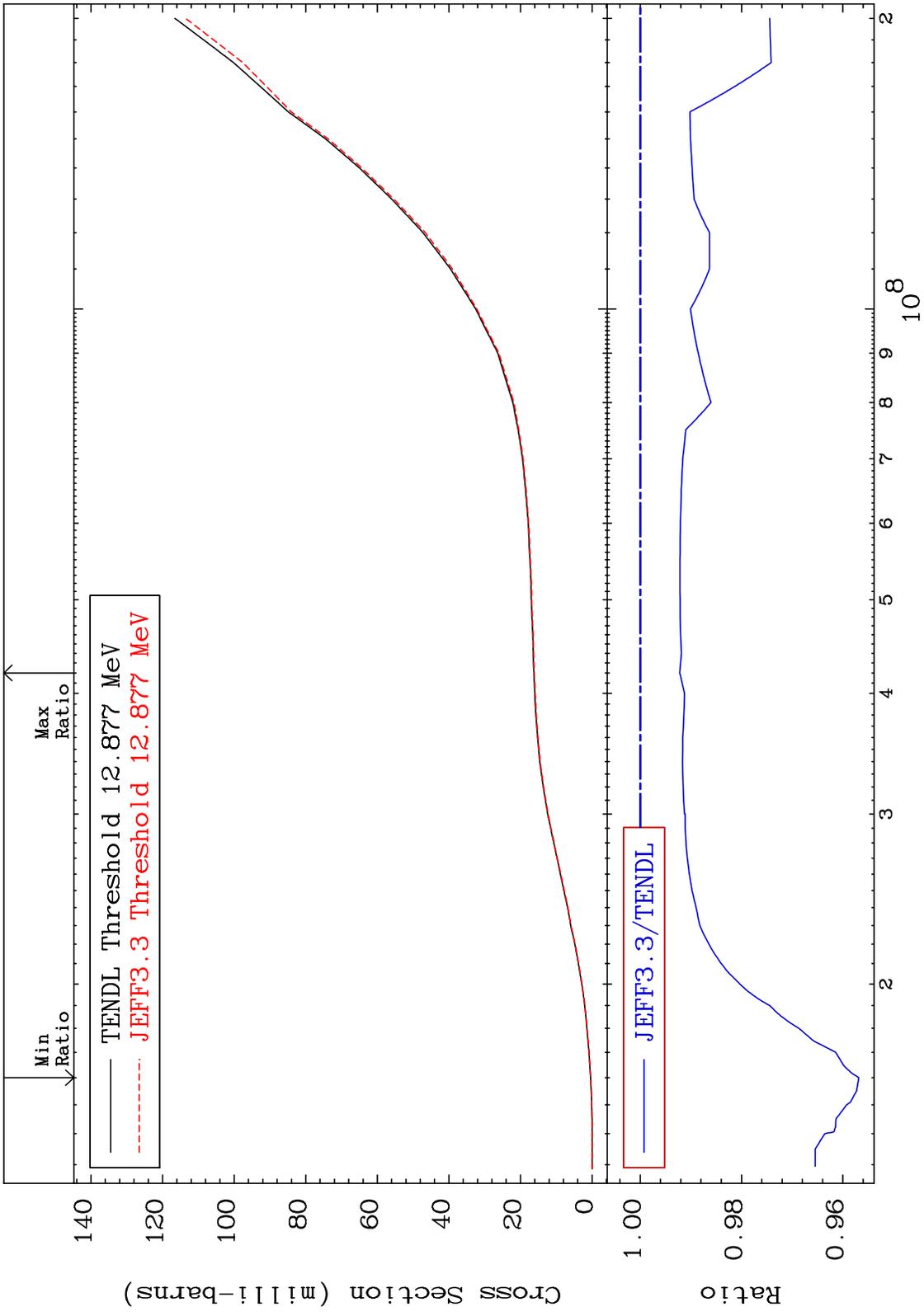
61 16-S -34

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

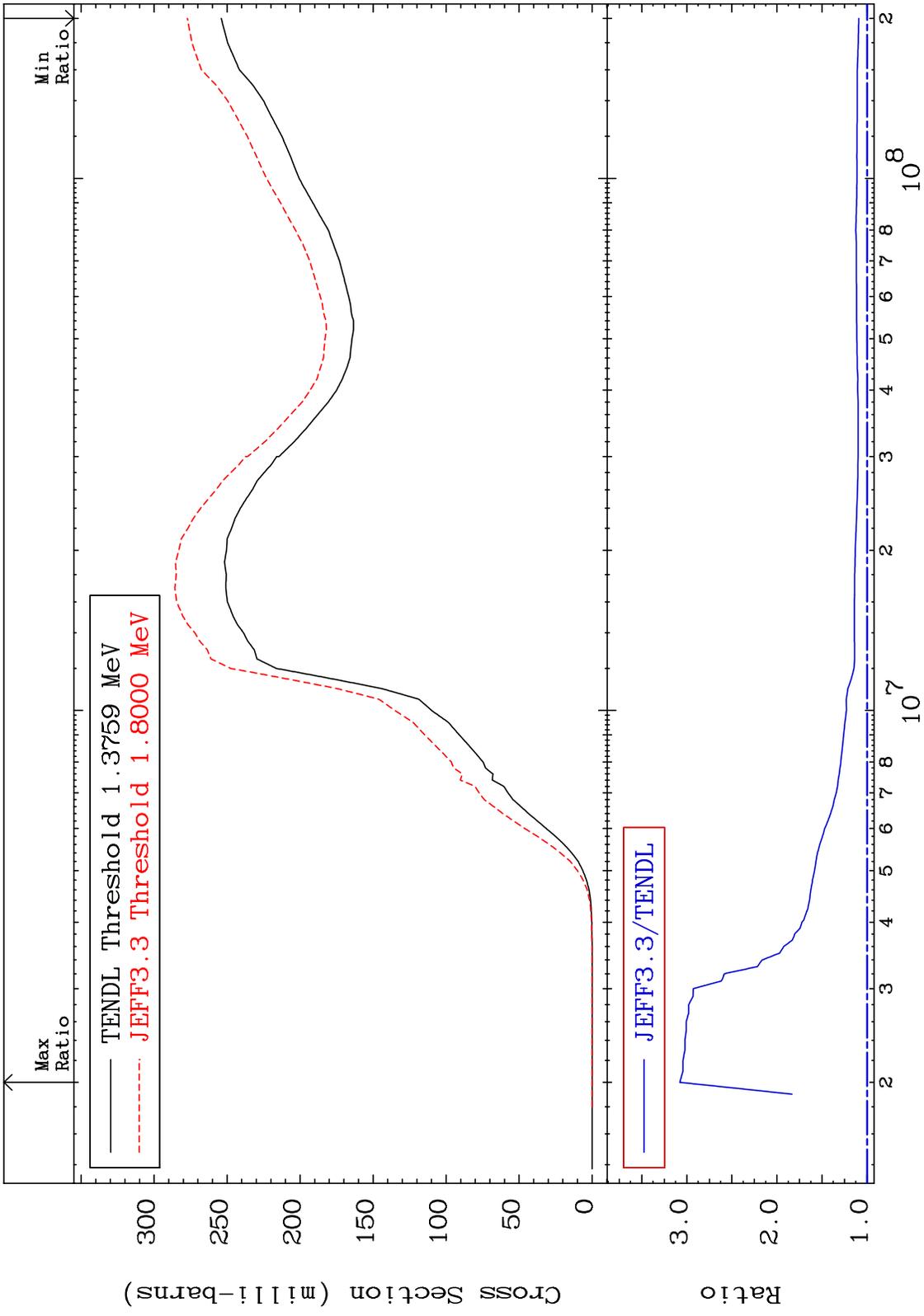


62 16-S -34

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



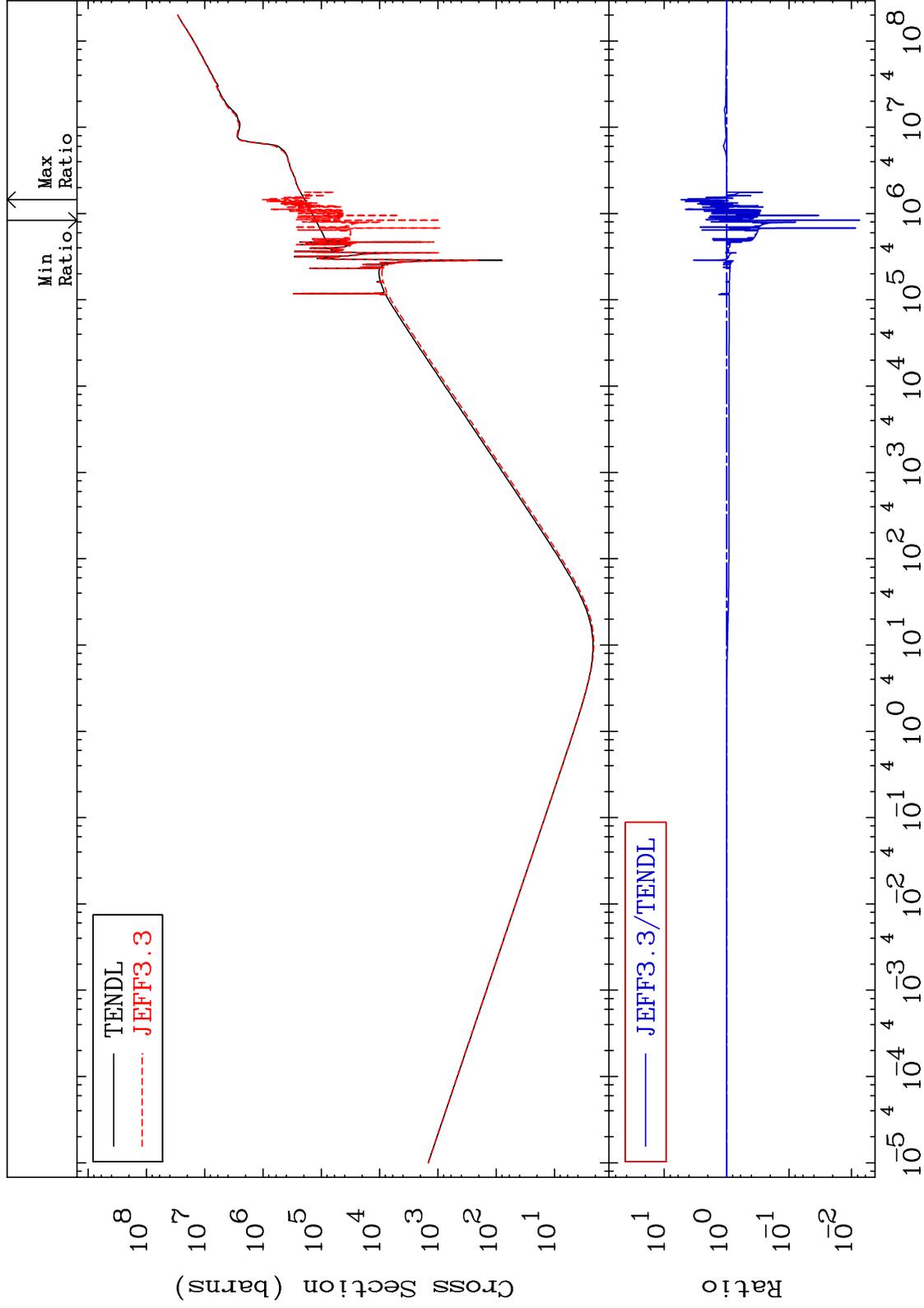
MAT 1631 He-4 Production Cross Section 16-S -34 9.134 To 207.9 %



MAT 1631

Kerma total (eV-barns)
Cross Section

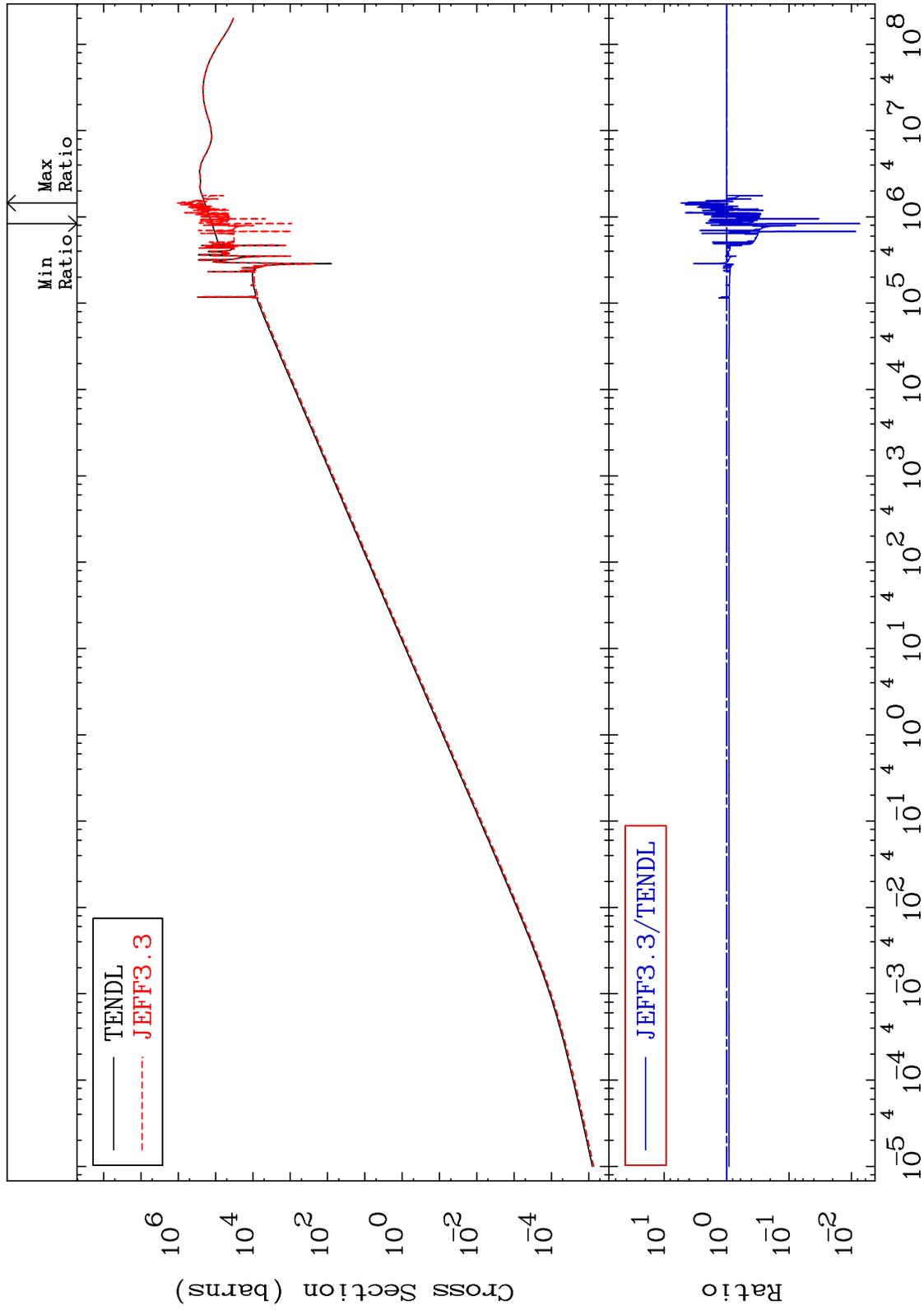
16-S -34
-99.26 To 433.0 %



MAT 1631

Kerma elastic
Cross Section

16-S -34
-99.26 To 433.0 %



67

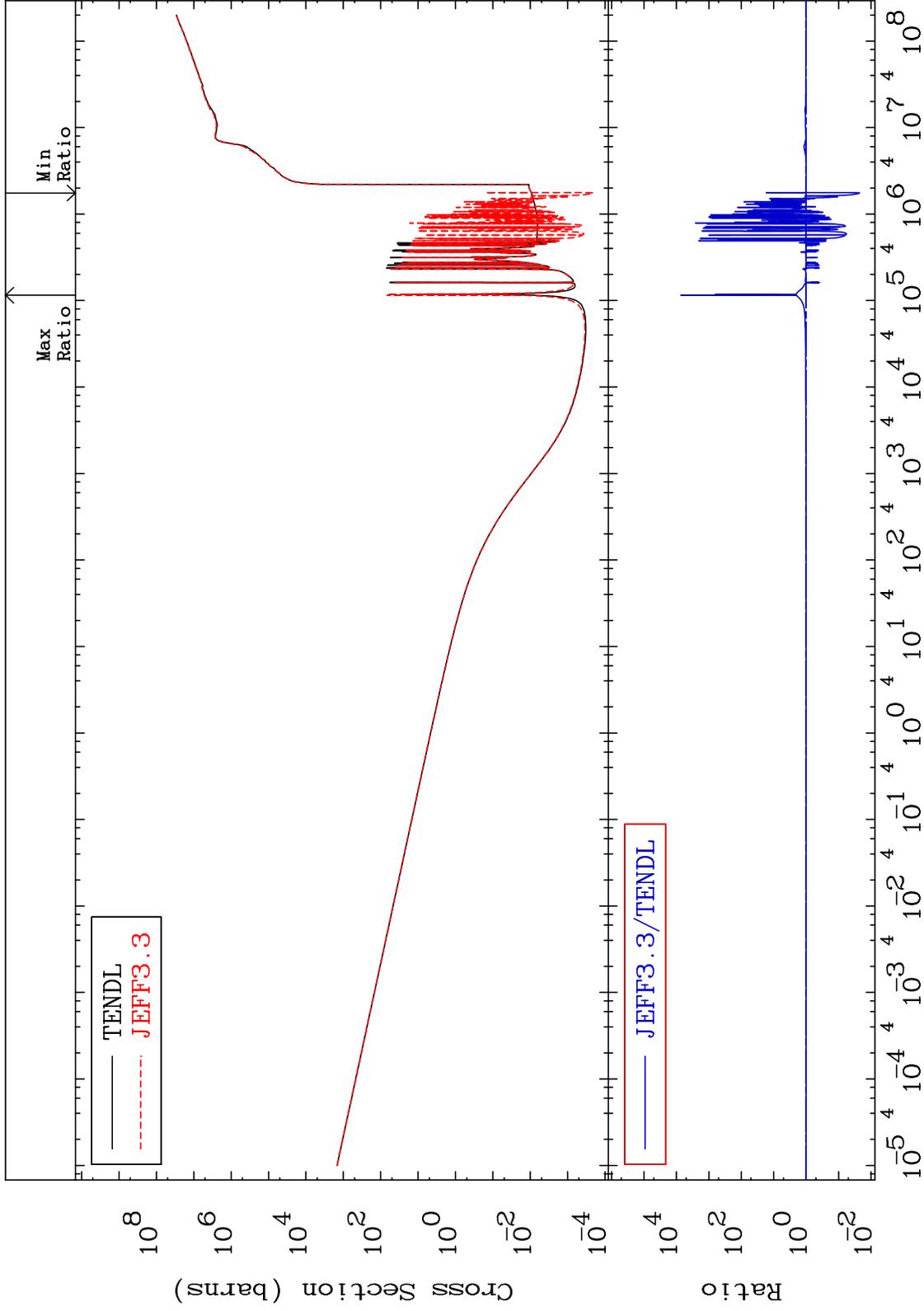
Incident Energy (eV)

16-S -34

MAT 1631

Kerma non-elastic (all but mt2)
Cross Section

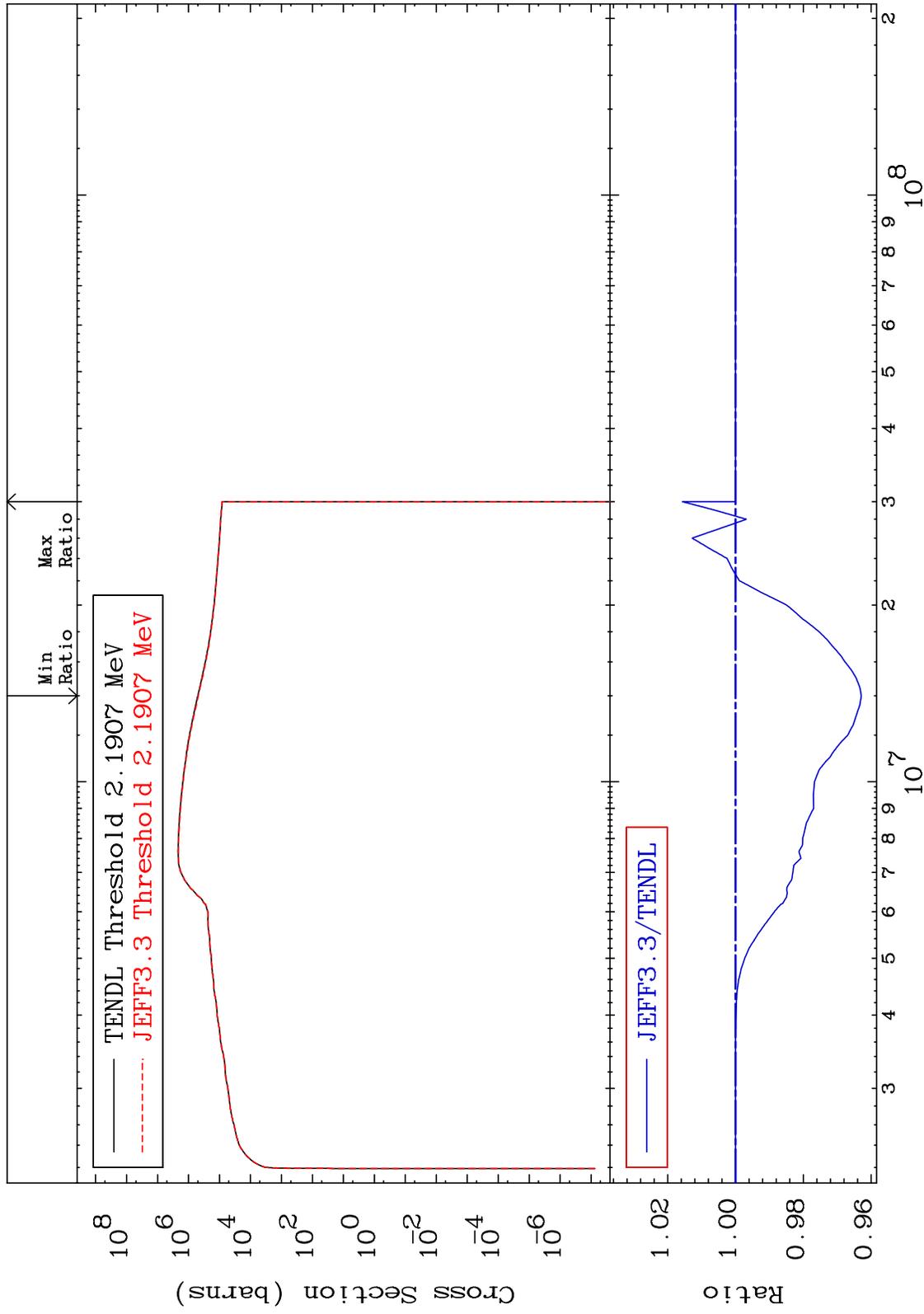
16-S -34
-97.77 To 9999. %



MAT 1631

Kerma inelastic (mt51-91)
Cross Section

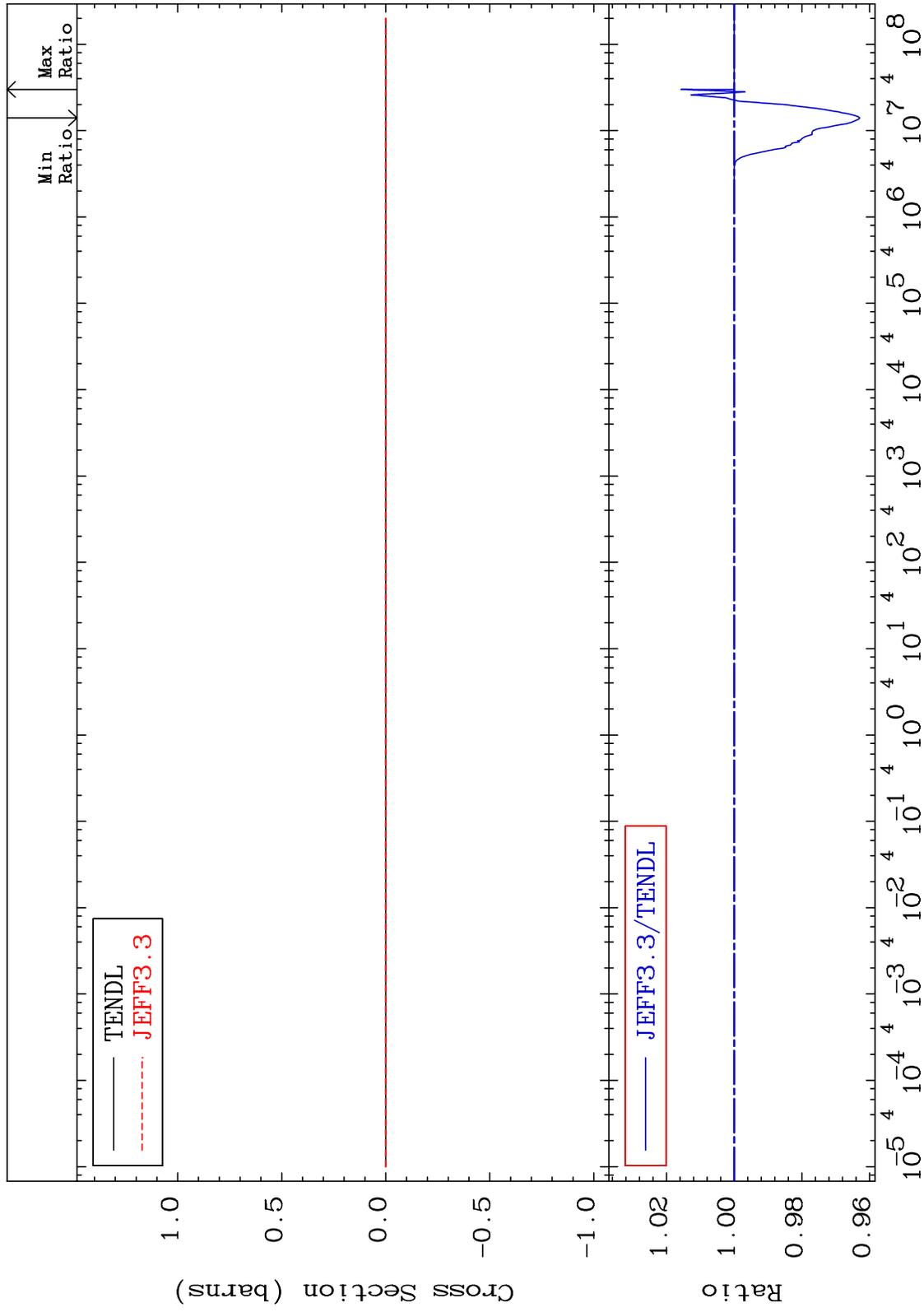
16-S -34
-3.711 To 1.565 %



MAT 1631

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

16-S -34
-3.711 To 1.565 %



70

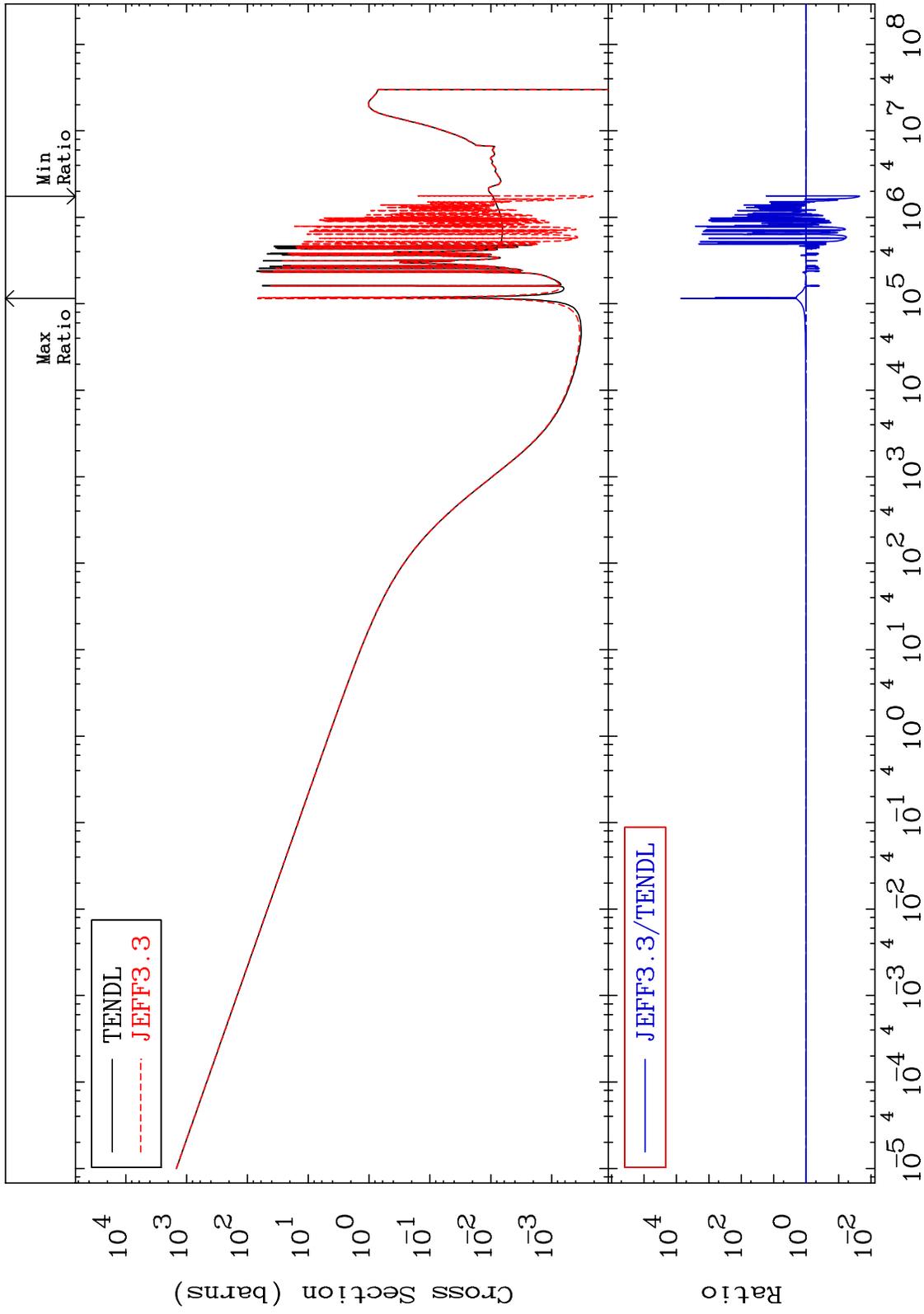
Incident Energy (eV)

16-S -34

MAT 1631

Kerma capture (mt102)
Cross Section

16-S -34
-97.77 To 9999. %



71

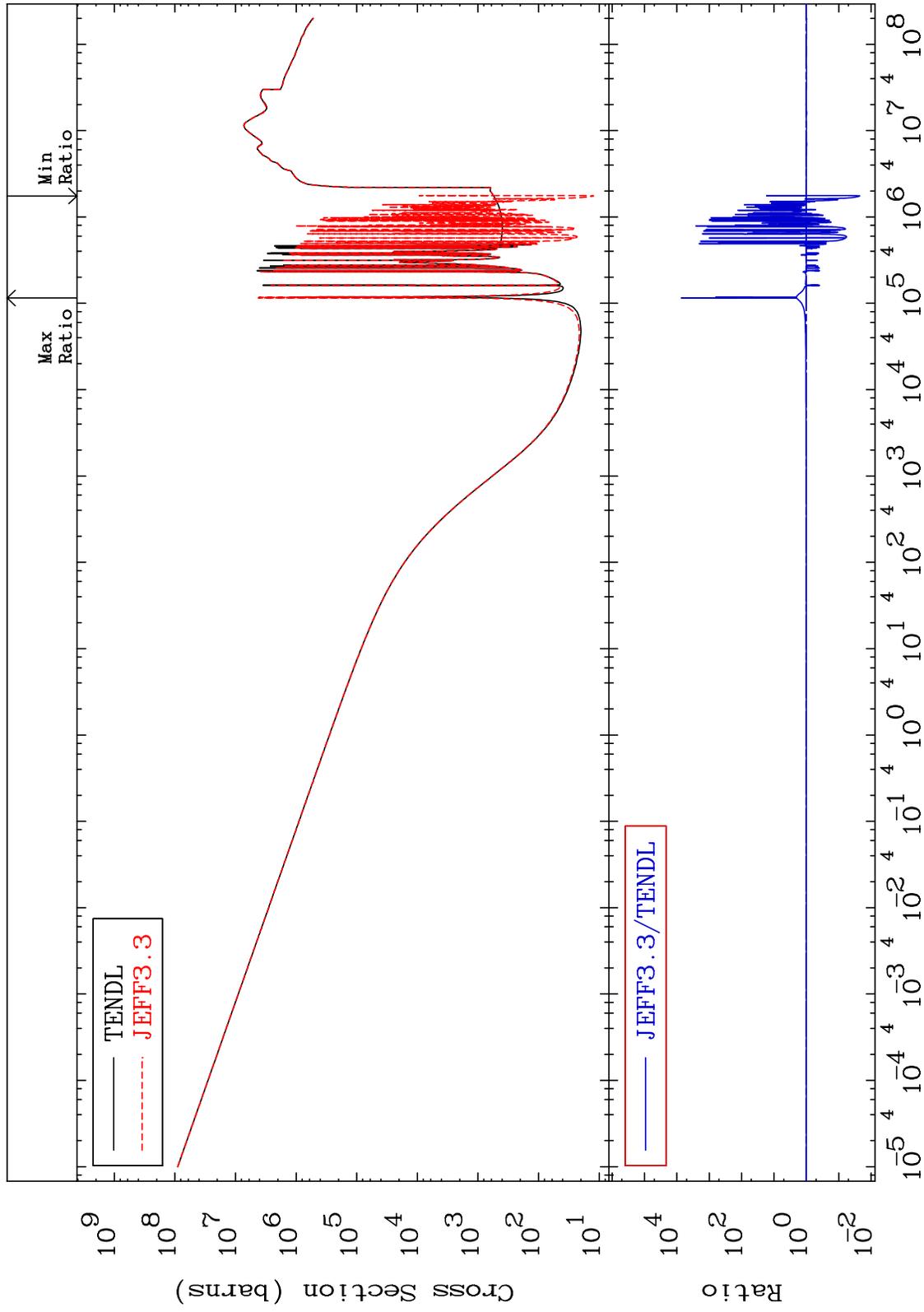
Incident Energy (eV)

16-S -34

MAT 1631

Total photon (eV-barns)
Cross Section

16-S -34
-97.77 To 9999. %



72

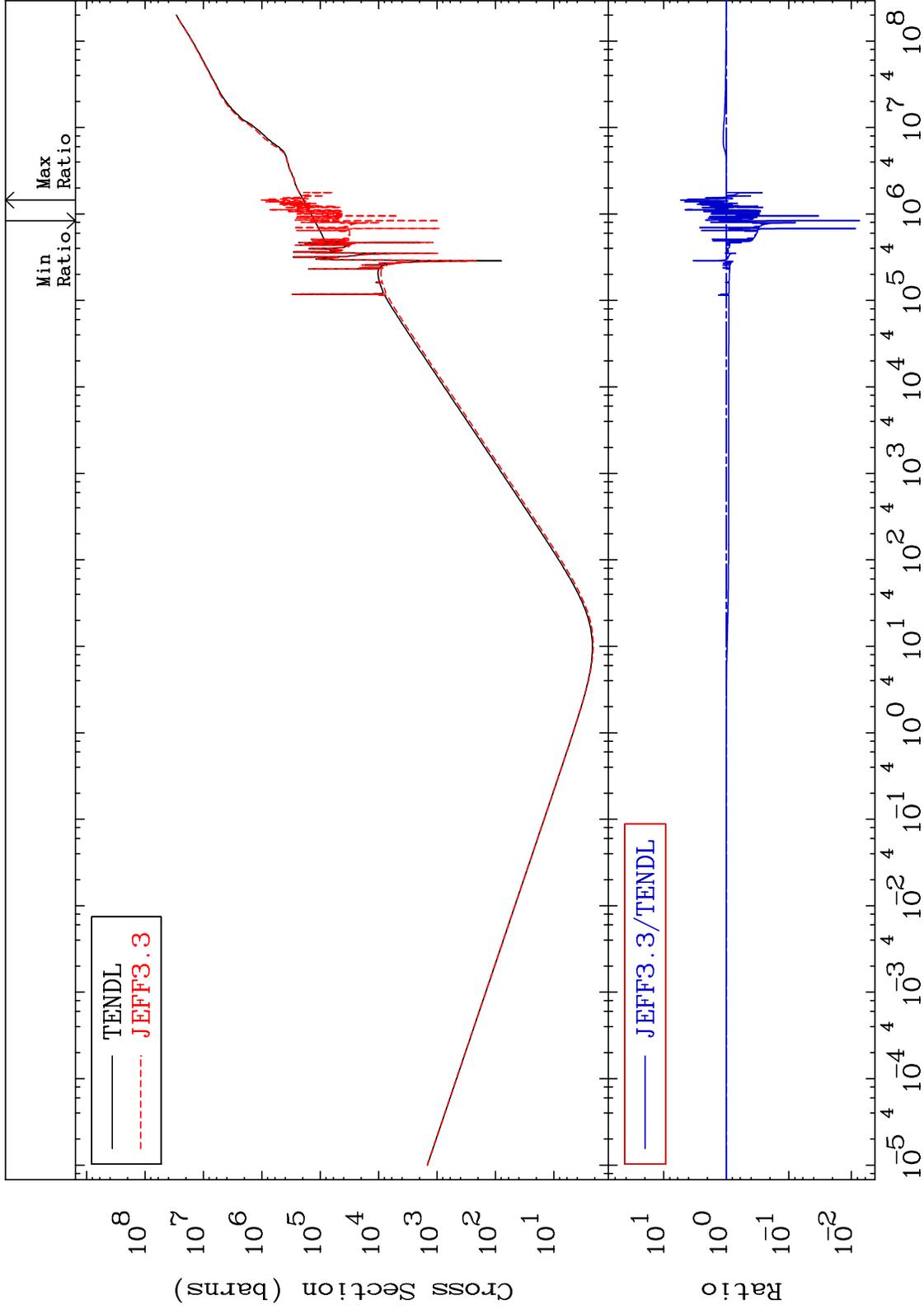
Incident Energy (eV)

16-S -34

MAT 1631

Total kinematic kerma (high limit)
Cross Section

16-S -34
-99.26 To 433.0 %



73

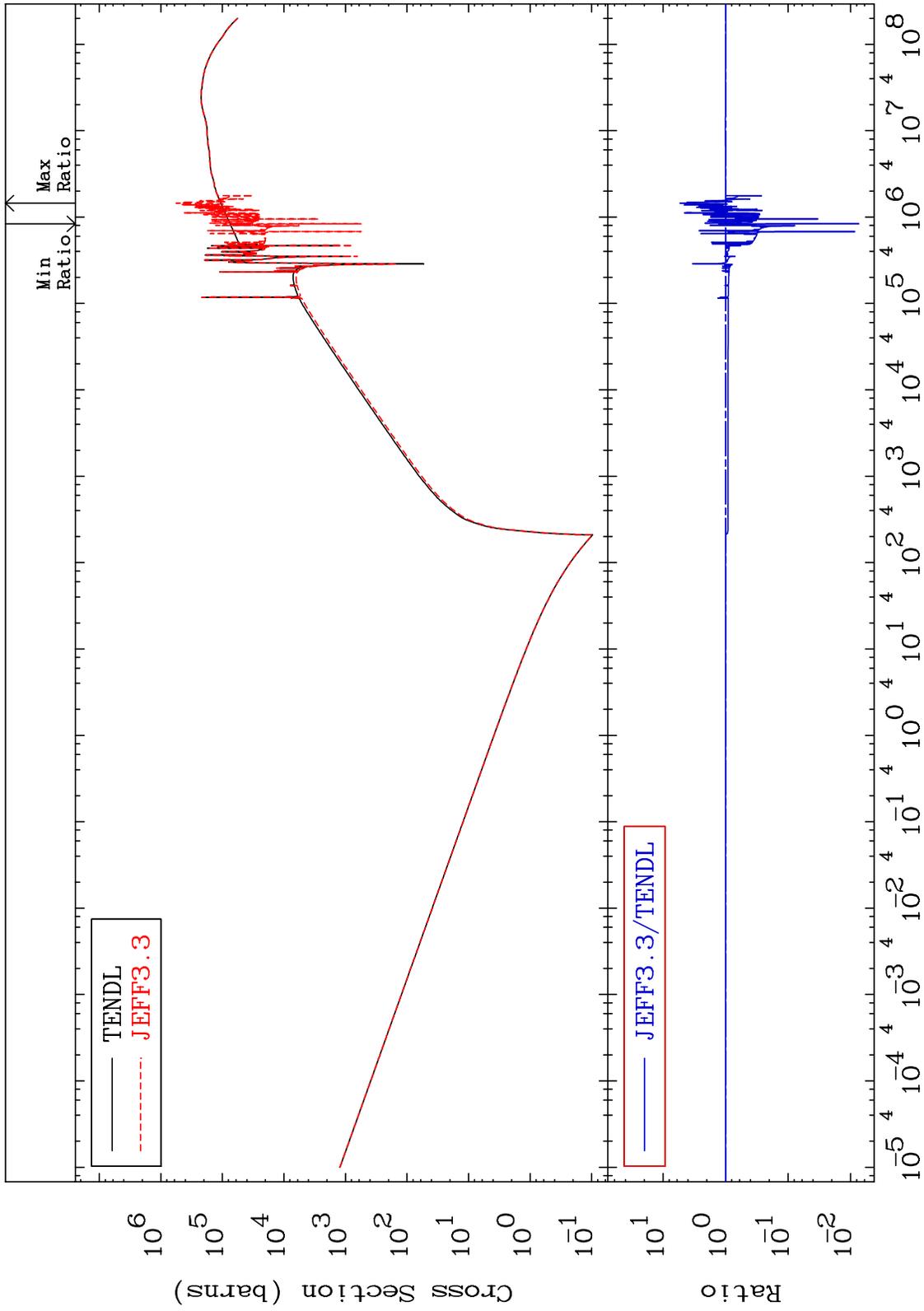
Incident Energy (eV)

16-S -34

MAT 1631

Dpa total (eV-barns)
Cross Section

16-S -34
-99.26 To 433.0 %



74

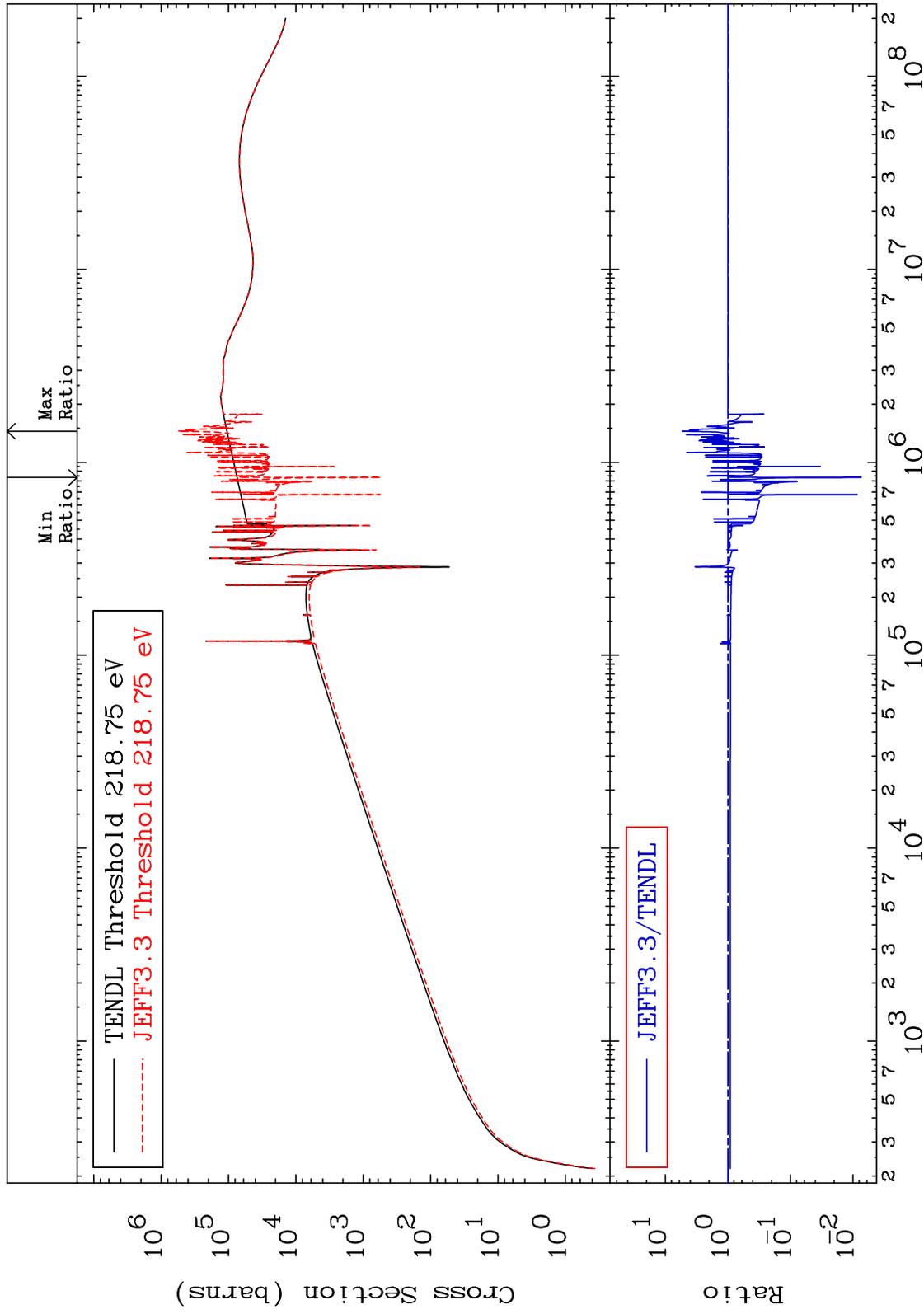
Incident Energy (eV)

16-S -34

MAT 1631

Dpa elastic (mt2)
Cross Section

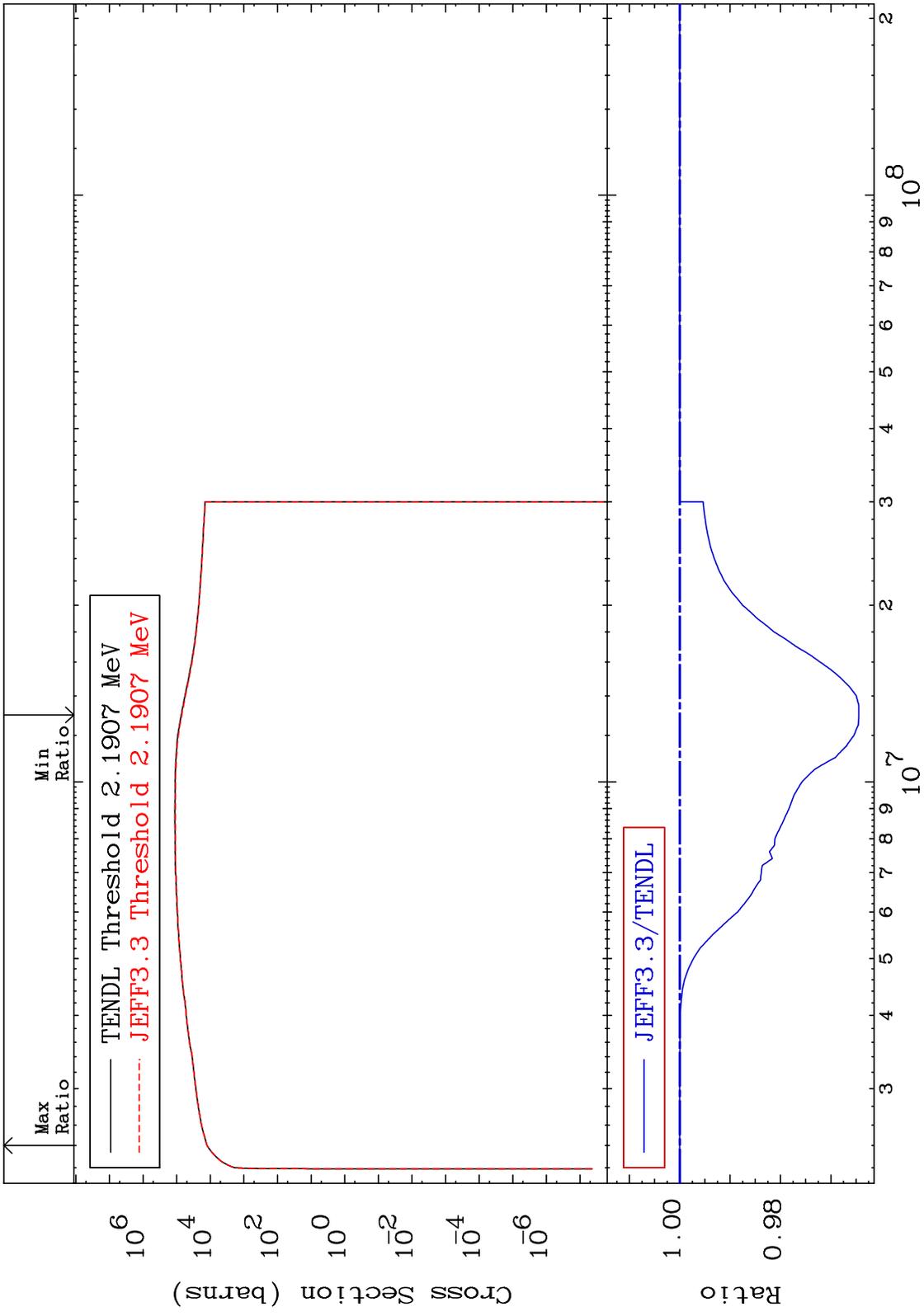
16-S -34
-99.26 To 433.0 %



75

Incident Energy (eV)

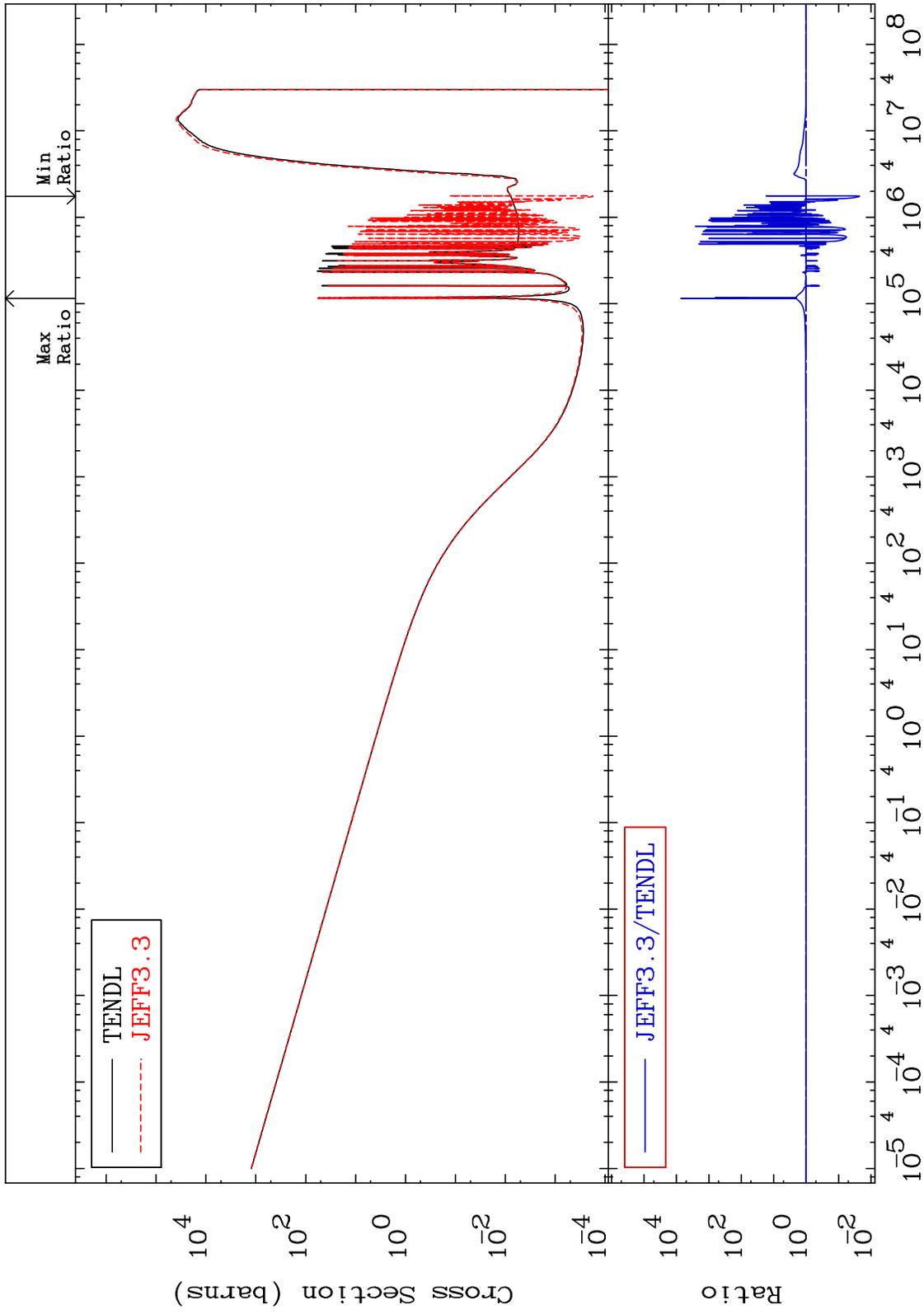
16-S -34



MAT 1631

Dpa disappearance (mt102 -120)
Cross Section

16-S -34
-97.77 To 9999. %



77

Incident Energy (eV)

16-S -34