

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)

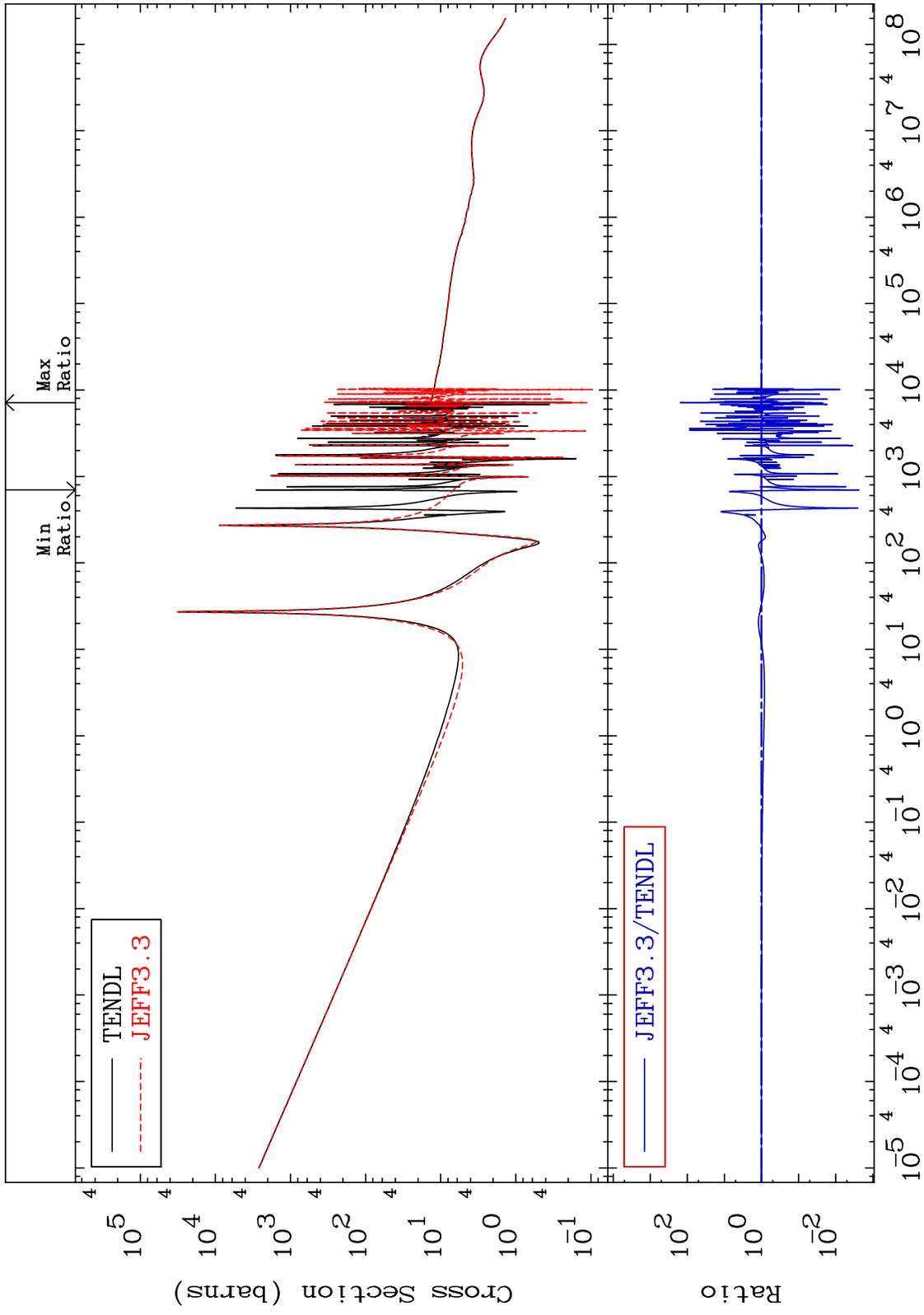
Press Mouse Button to Start

MAT 3425

Total  
Cross Section

34-Se-74

-99.76 To 9999. %



1

Incident Energy (eV)

34-Se-74

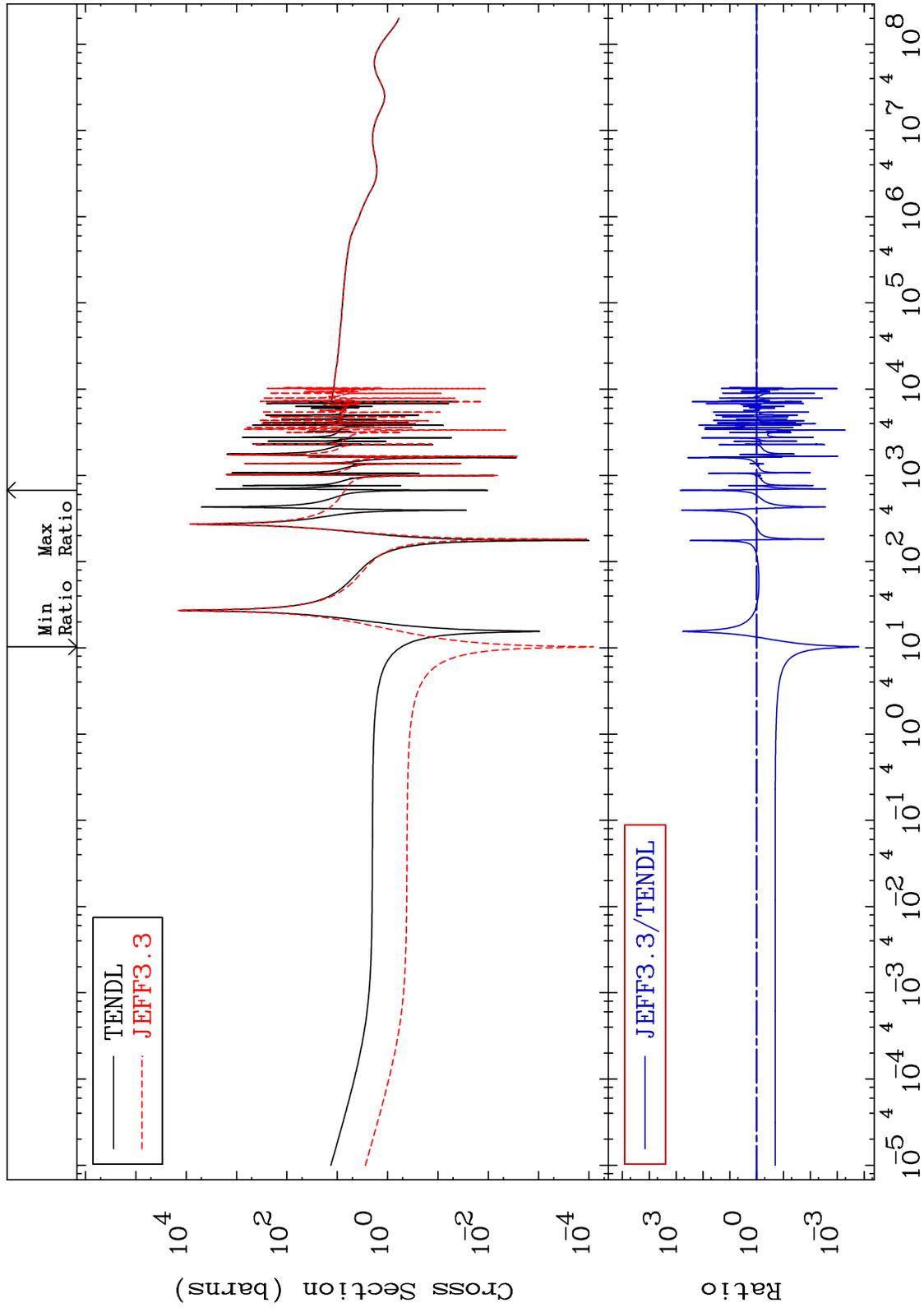
MAT 3425

Elastic

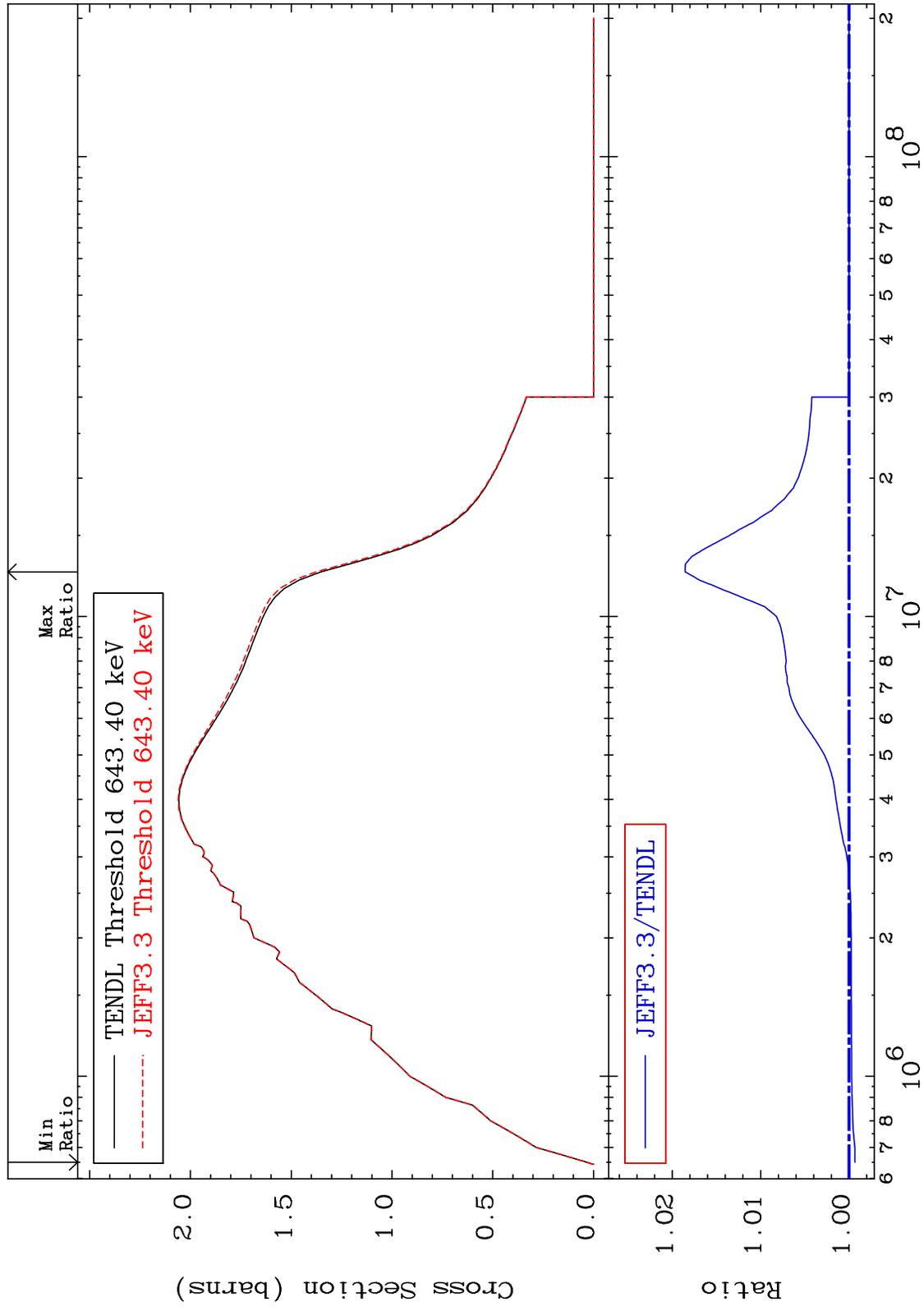
Cross Section

<sup>34</sup>Se-74

-99.98 To 9999. %

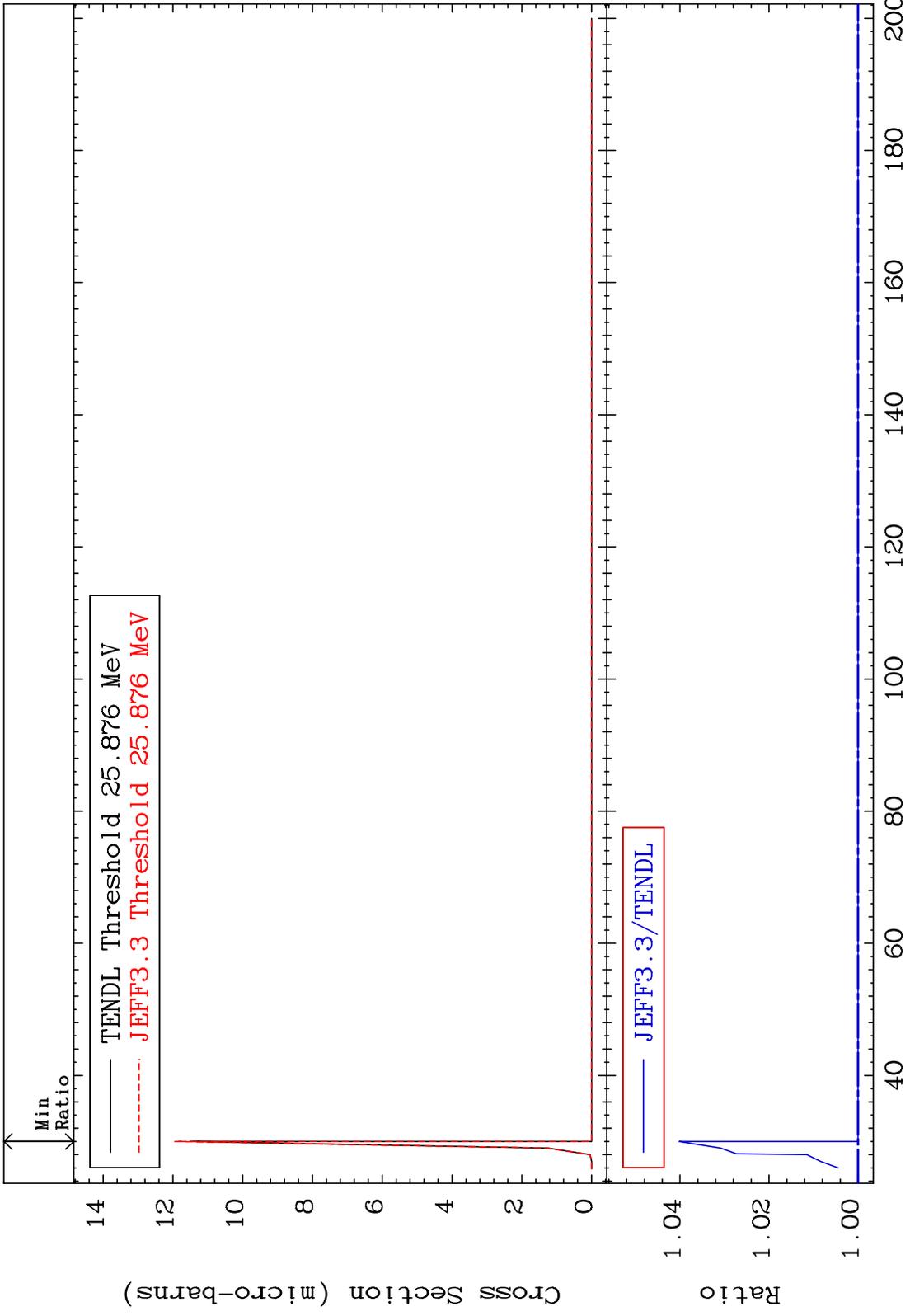


MAT 3425 Inelastic Cross Section 34-Se-74 -0.066 To 1.855 %

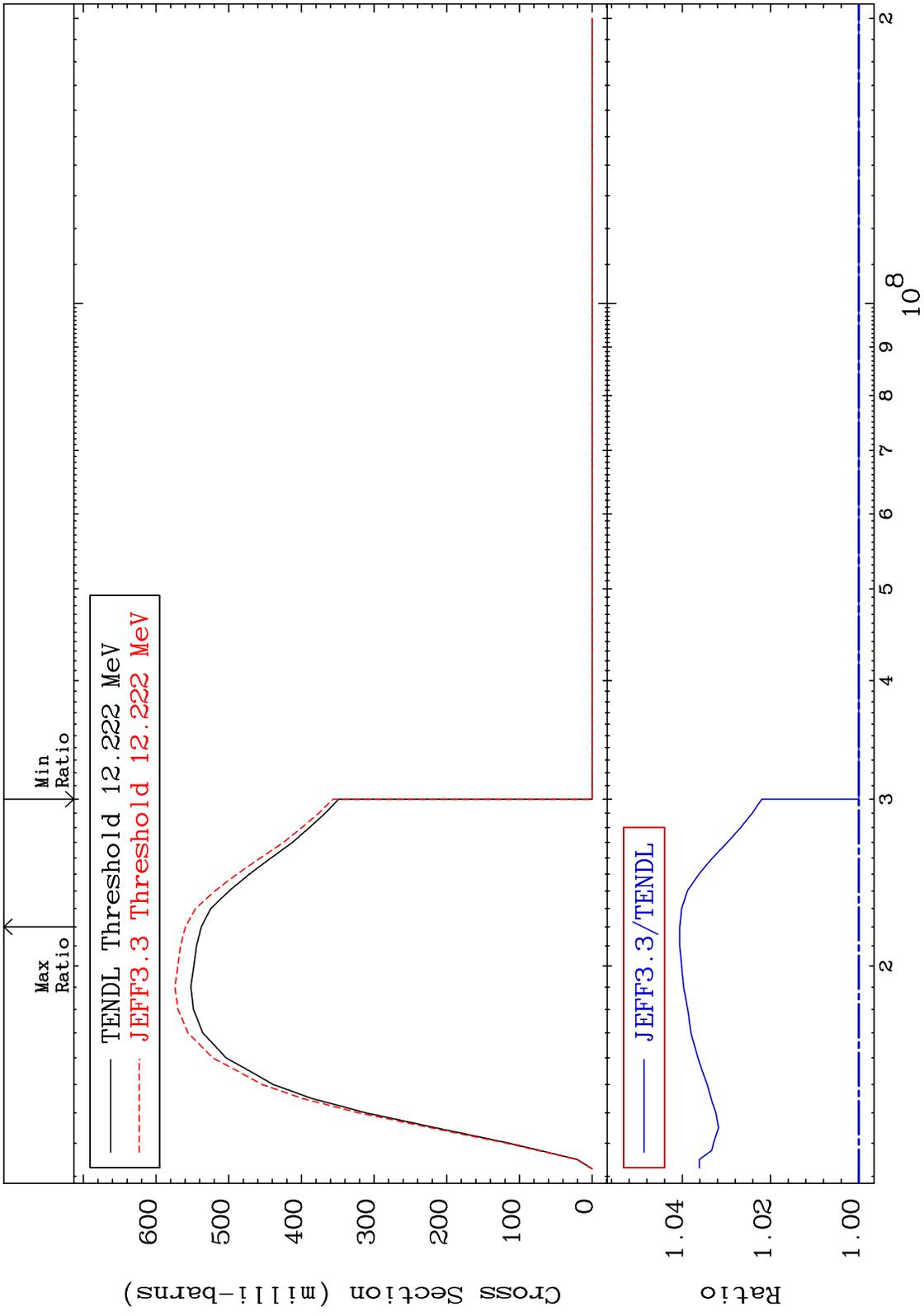


3 34-Se-74

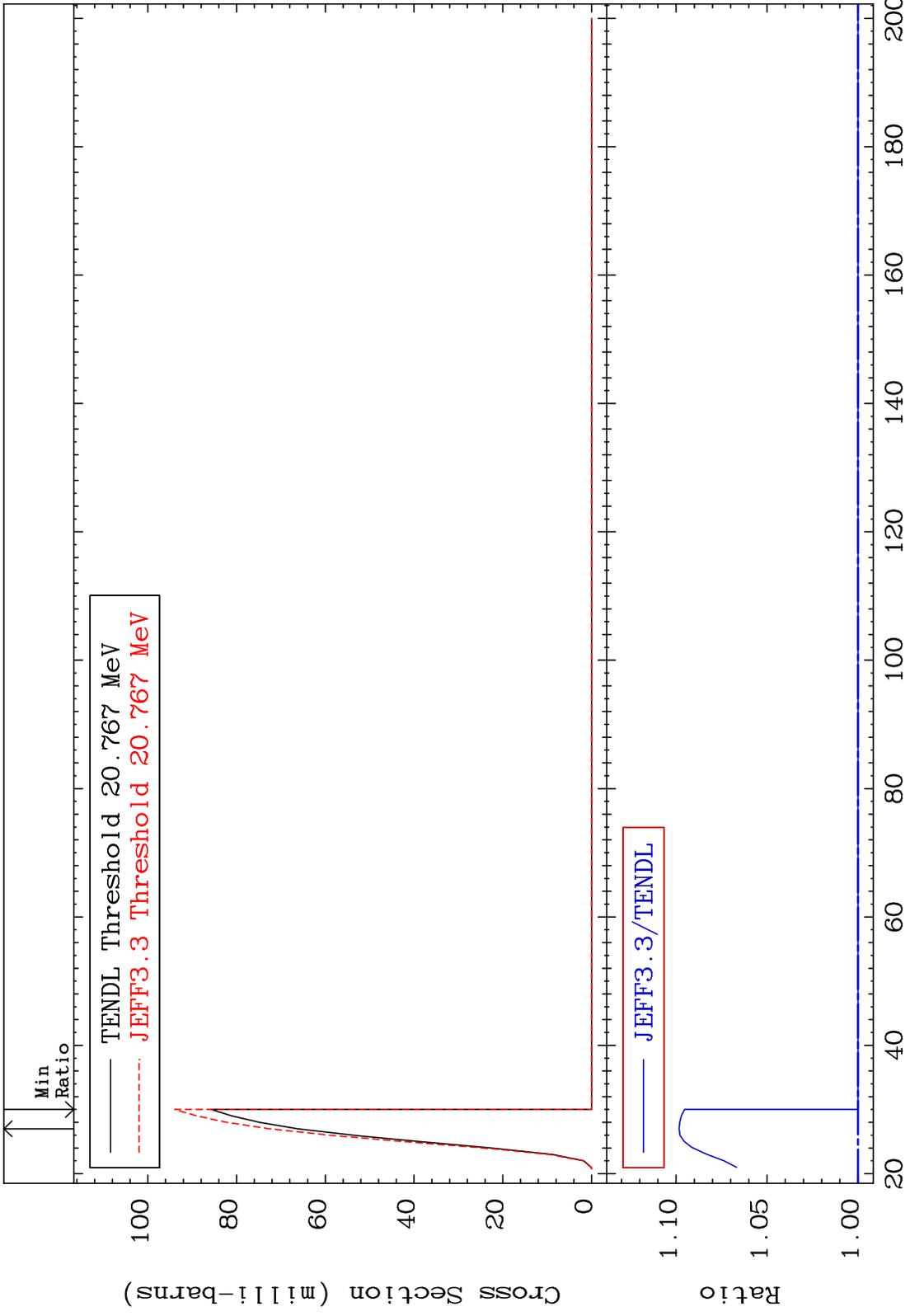
MAT 3425 (n,2n) d 34-Se-74  
Cross Section 0.000 To 4.020 %



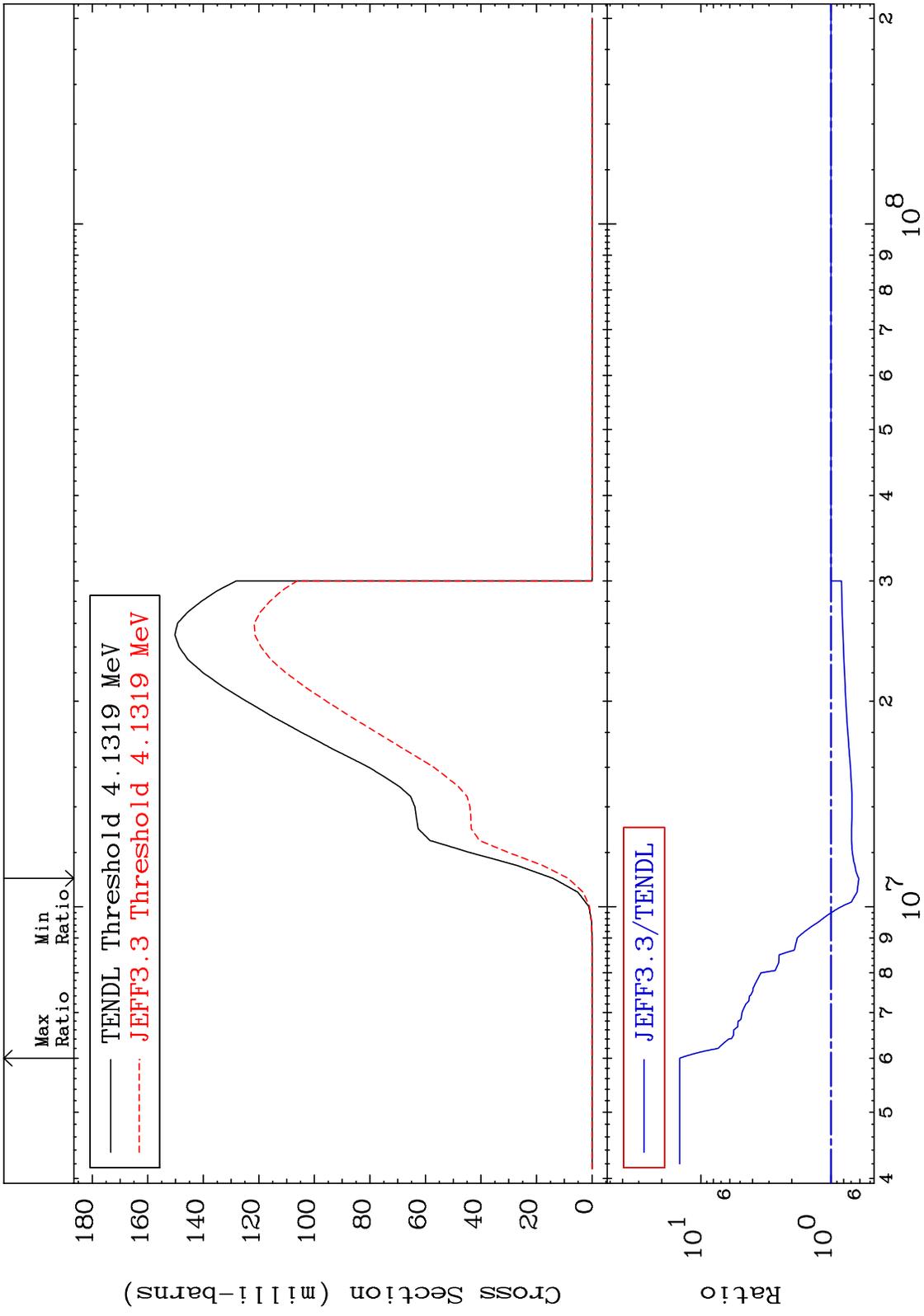
MAT 3425  $(n,2n)$  Cross Section  $^{34}\text{Se-74}$  To 4.055 %



MAT 3425 (n,3n) Cross Section 34-Se-74 To 9.832 %

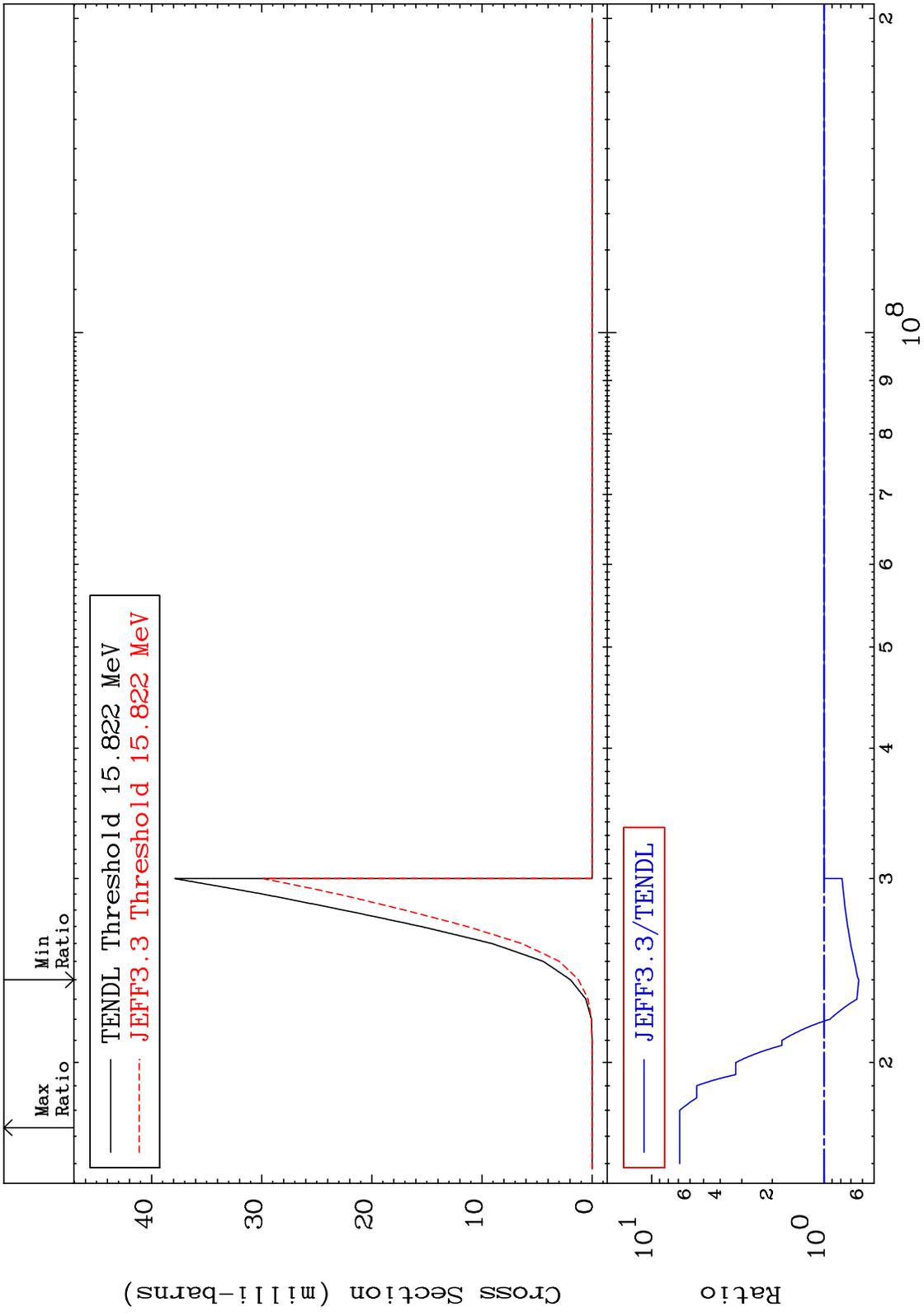


MAT 3425  $(n, n') \alpha$   $^{34}\text{Se-74}$   
 Cross Section -38.91 To 1354. %

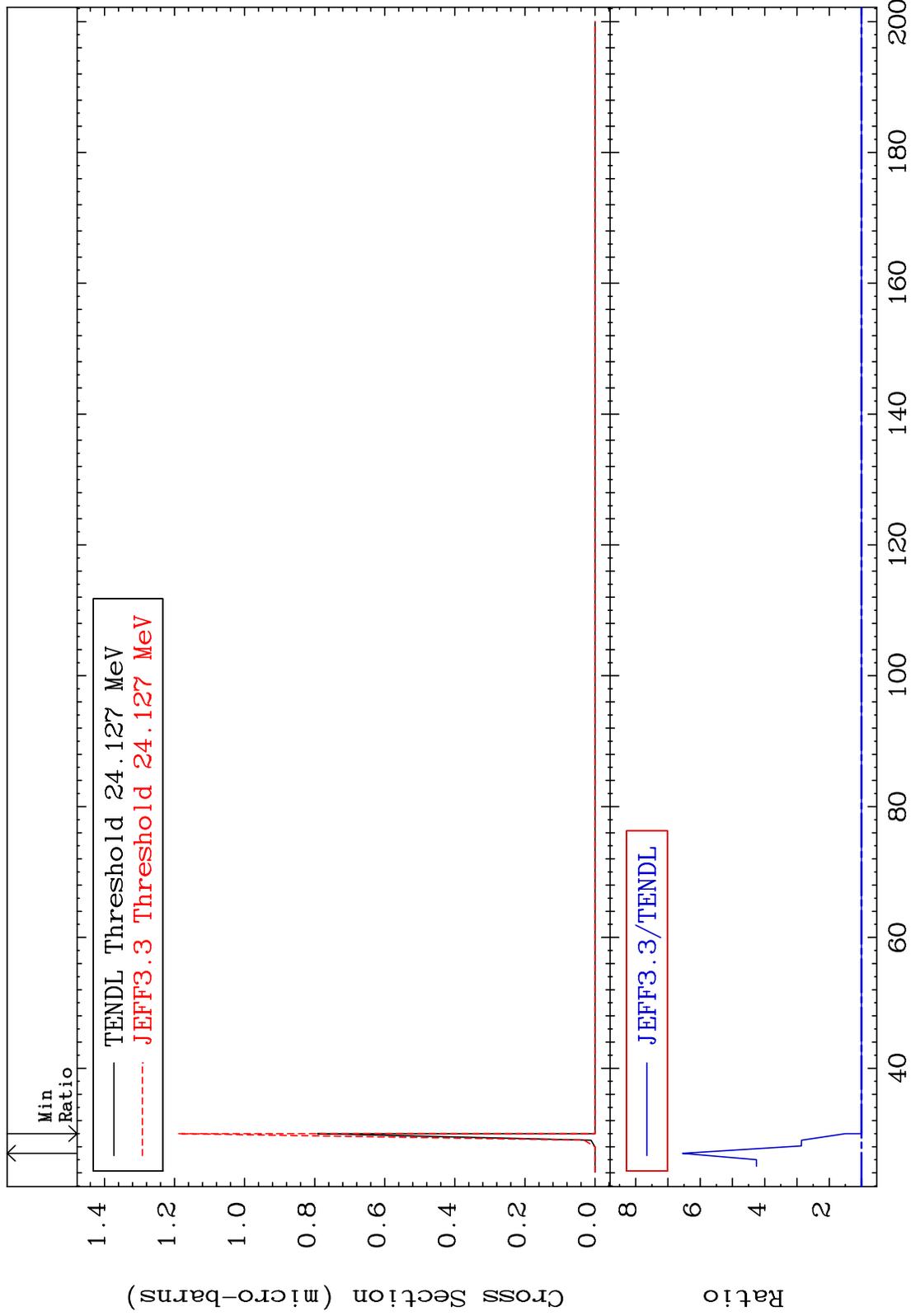


7 Incident Energy (eV)  $^{34}\text{Se-74}$

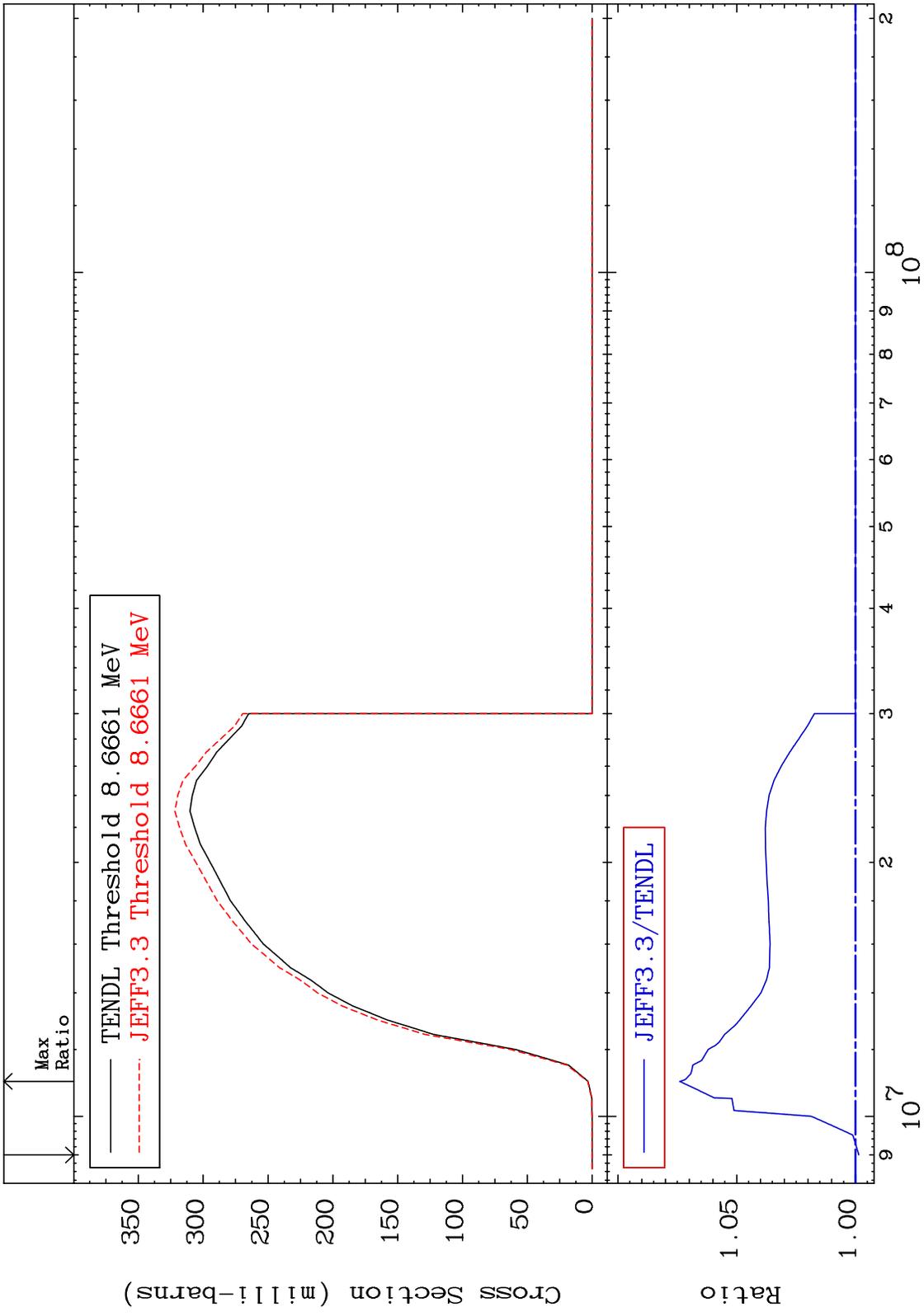
MAT 3425  $(n, 2n) \alpha$   $^{34}\text{Se-74}$   
 Cross Section  $-37.04$  To  $586.8$  %



MAT 3425 (n,3n)  $\alpha$  34-Se-74  
Cross Section 0.000 To 554.6 %

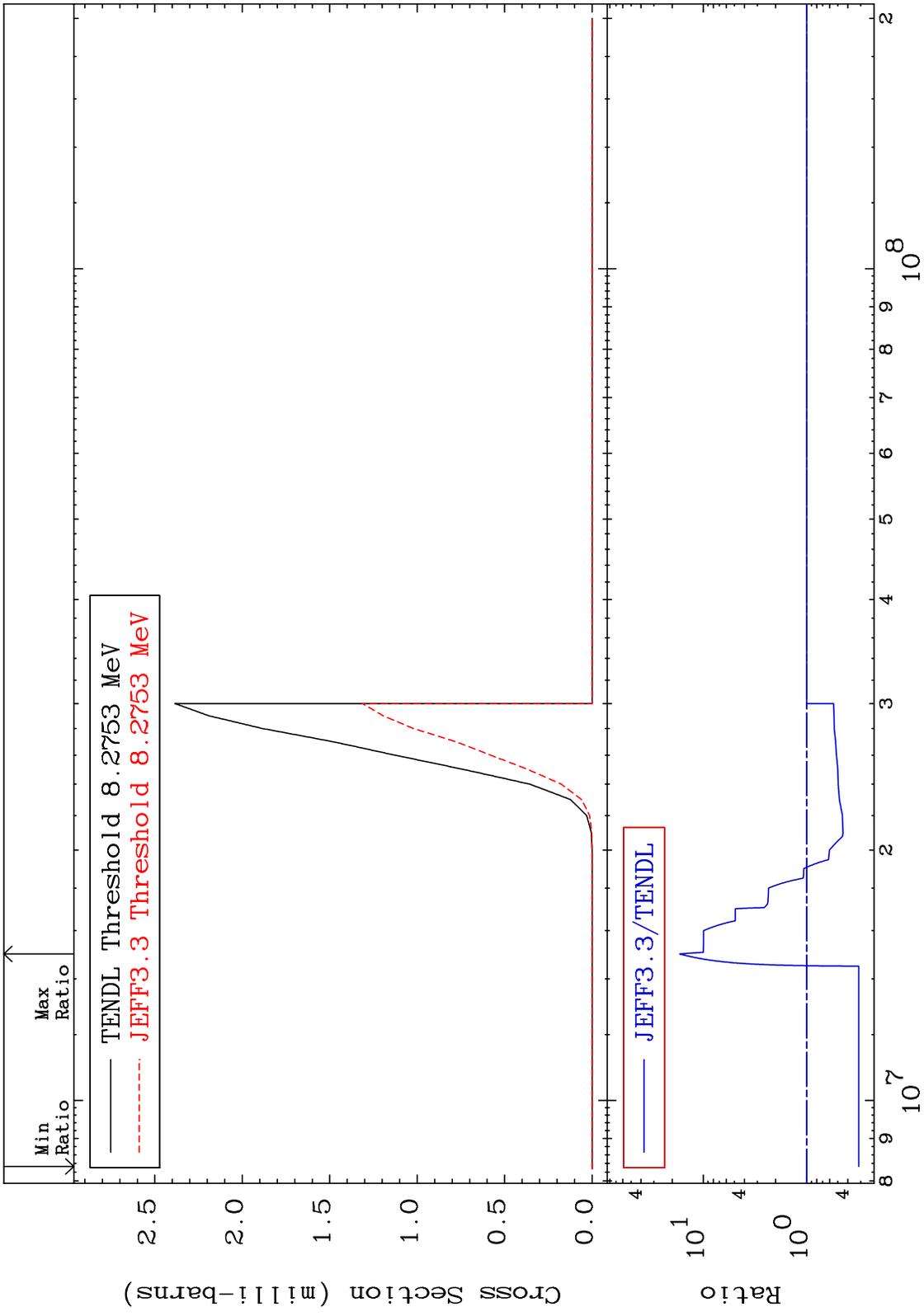


MAT 3425 (n,n') p 34-Se-74  
Cross Section -0.141 To 7.399 %

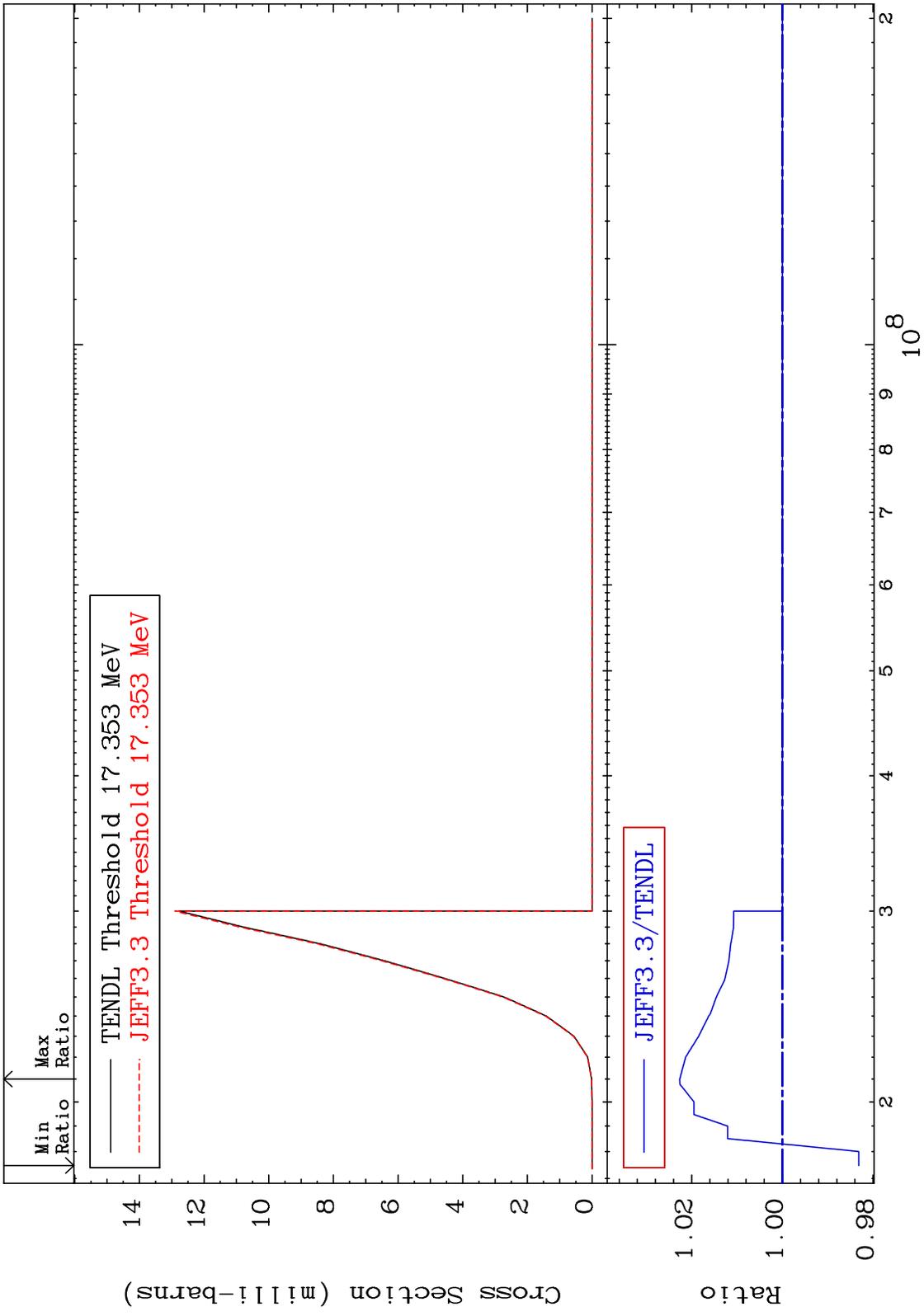


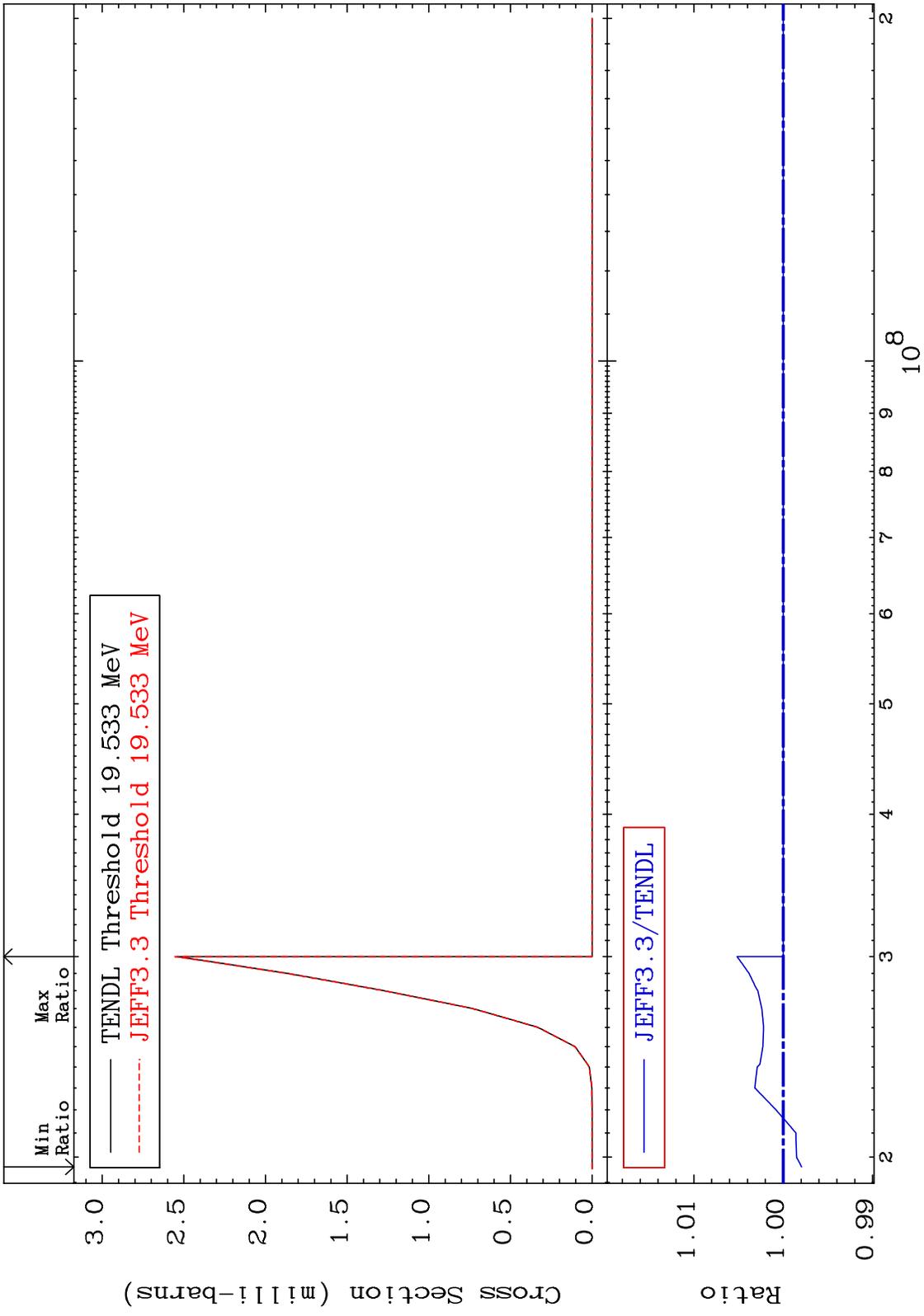
34-Se-74

MAT 3425 (n,n') 2α Cross Section 34-Se-74 -68.68 To 1589. %

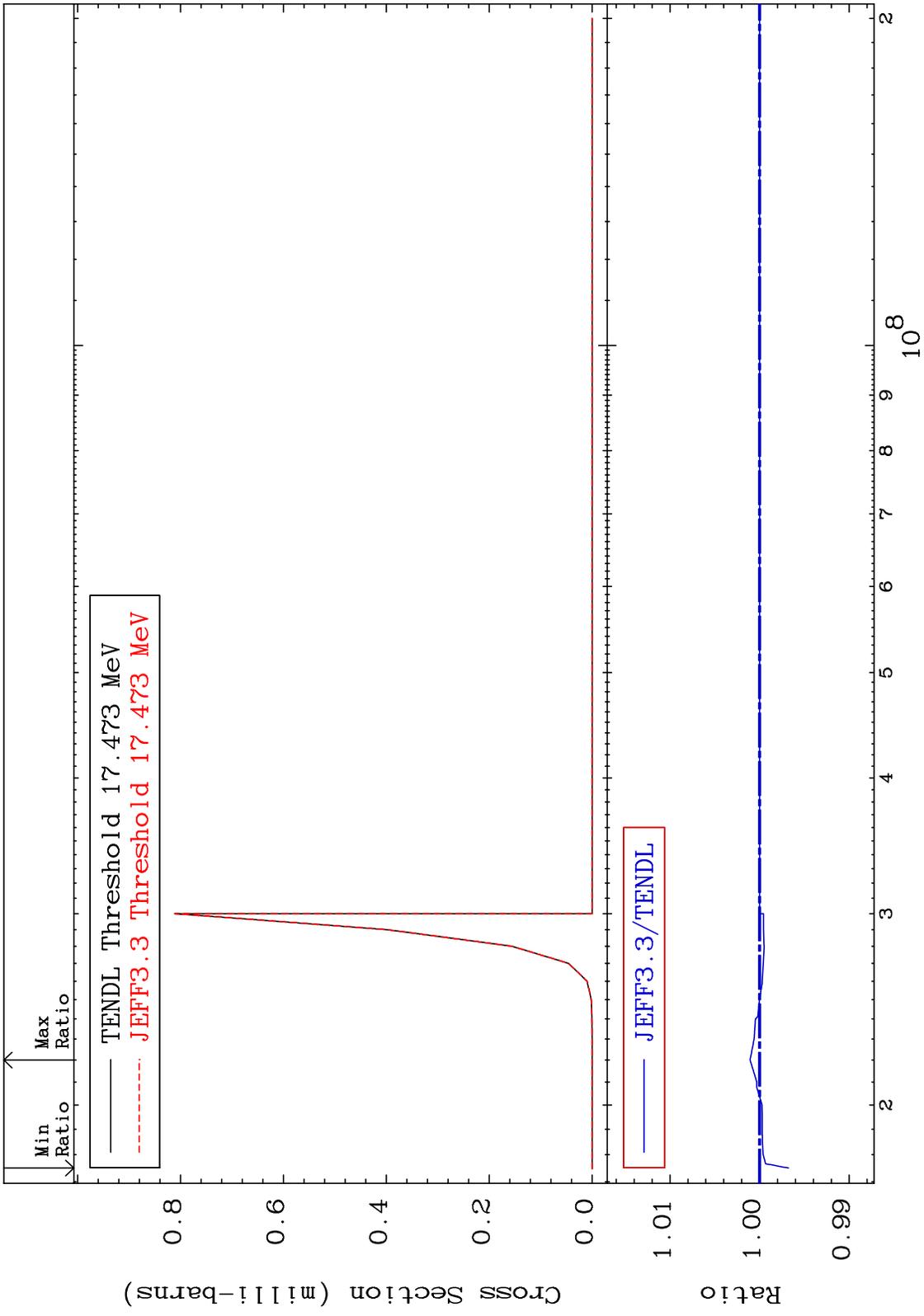


MAT 3425 (n, n') d 34-Se-74  
 Cross Section -1.686 To 2.264 %

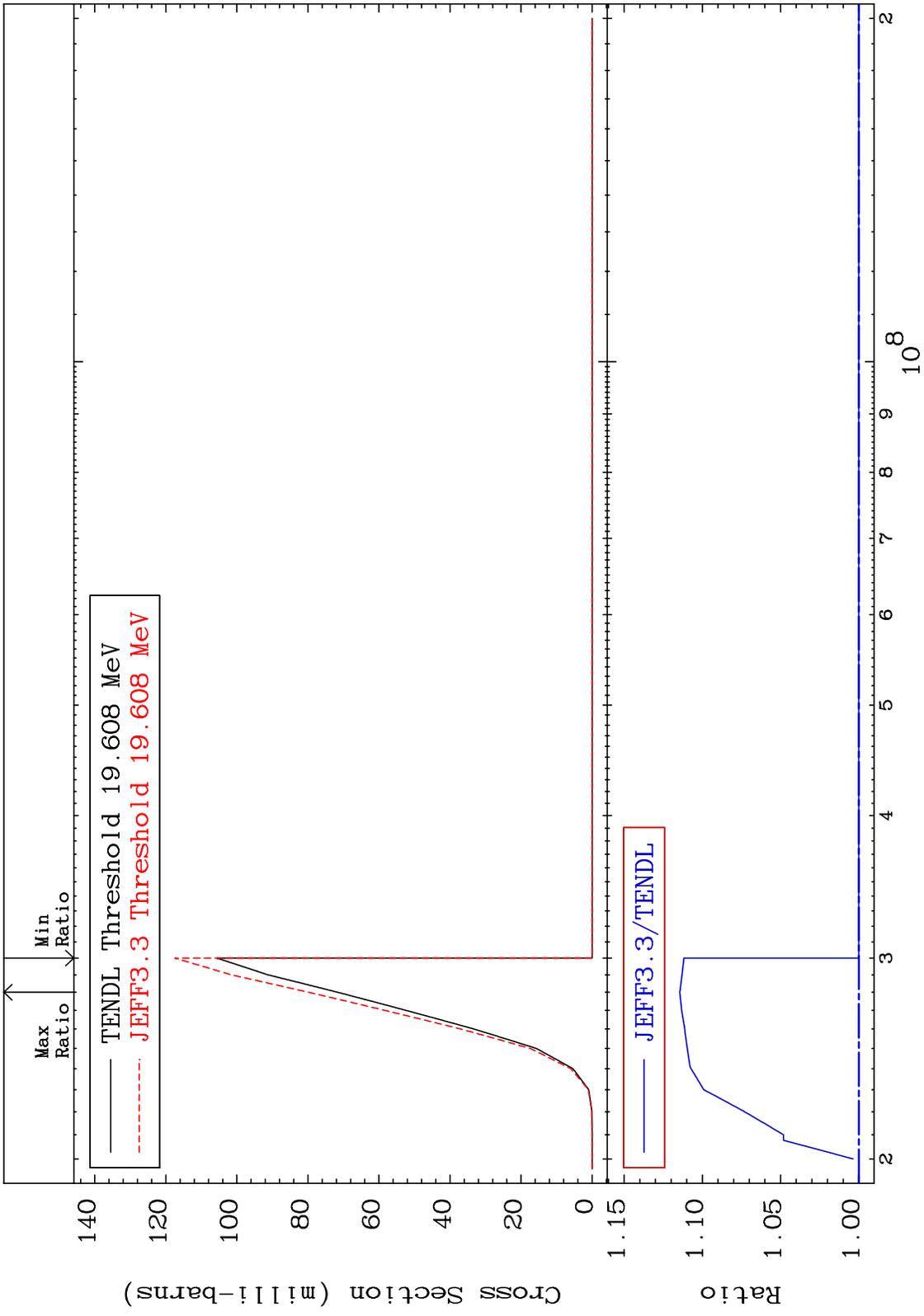




MAT 3425 (n, n') He-3 34-Se-74  
 Cross Section -0.322 To 0.106 %



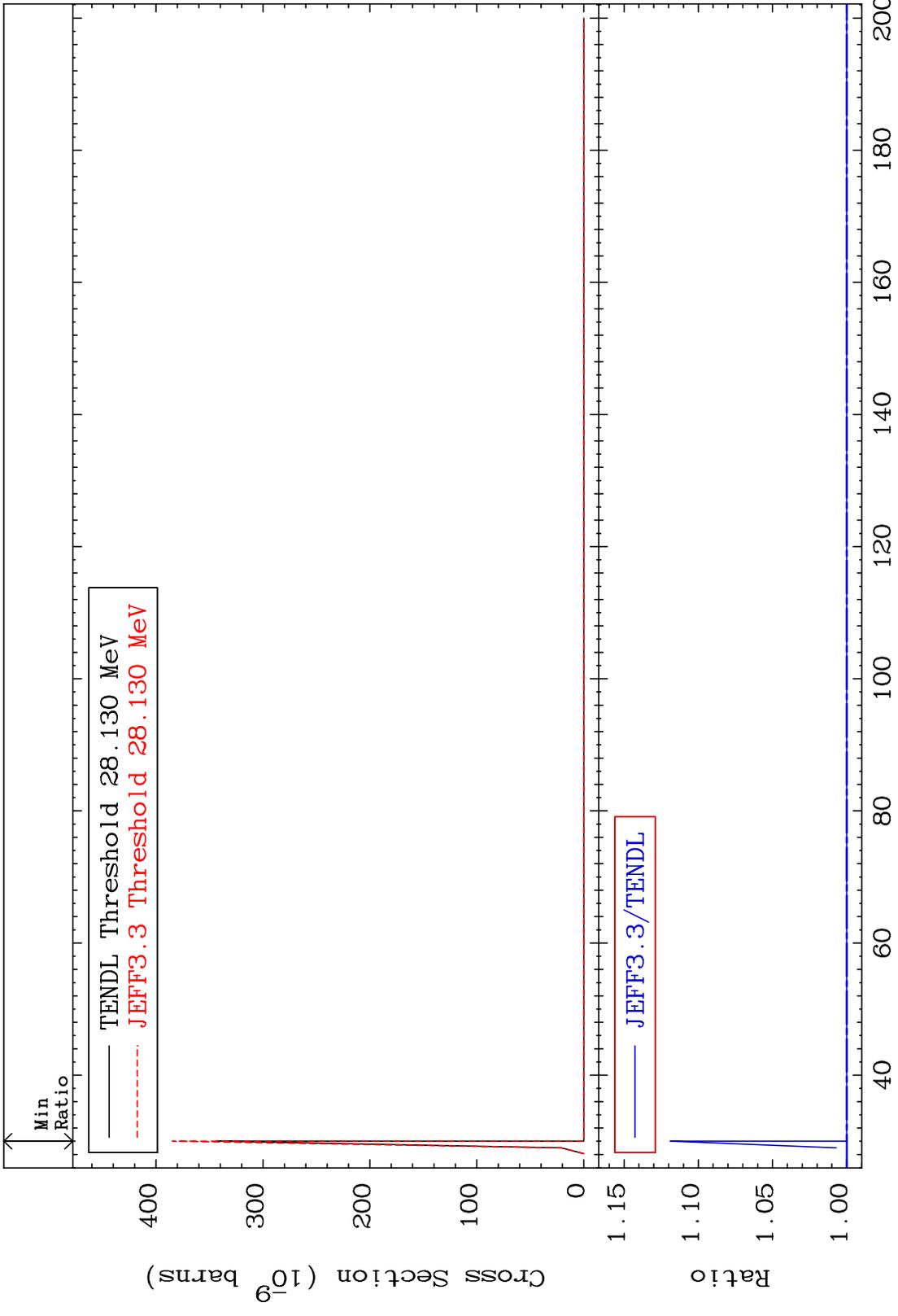
MAT 3425 (n,2n) p 34-Se-74  
 Cross Section 0.000 To 11.45 %



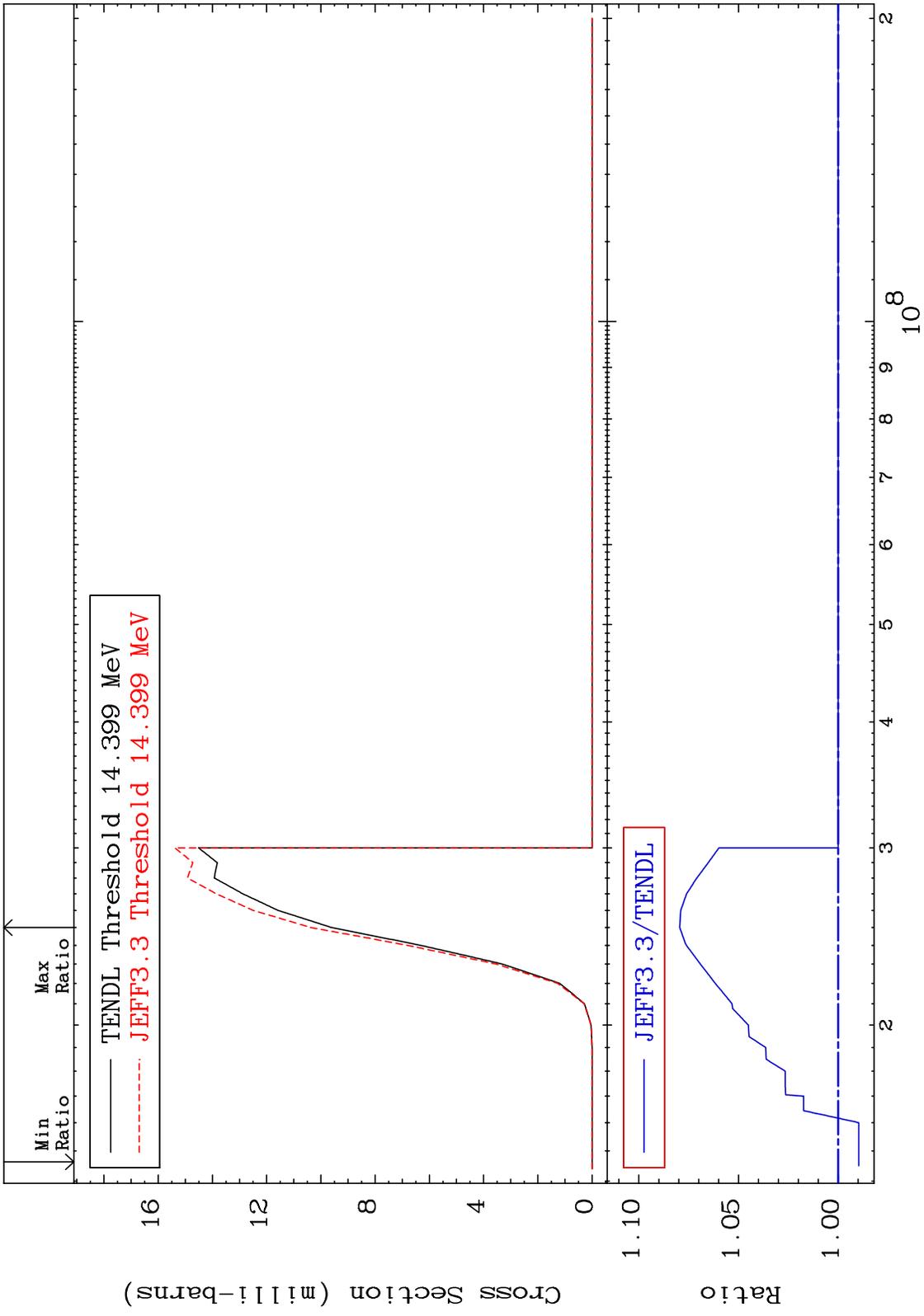
34-Se-74

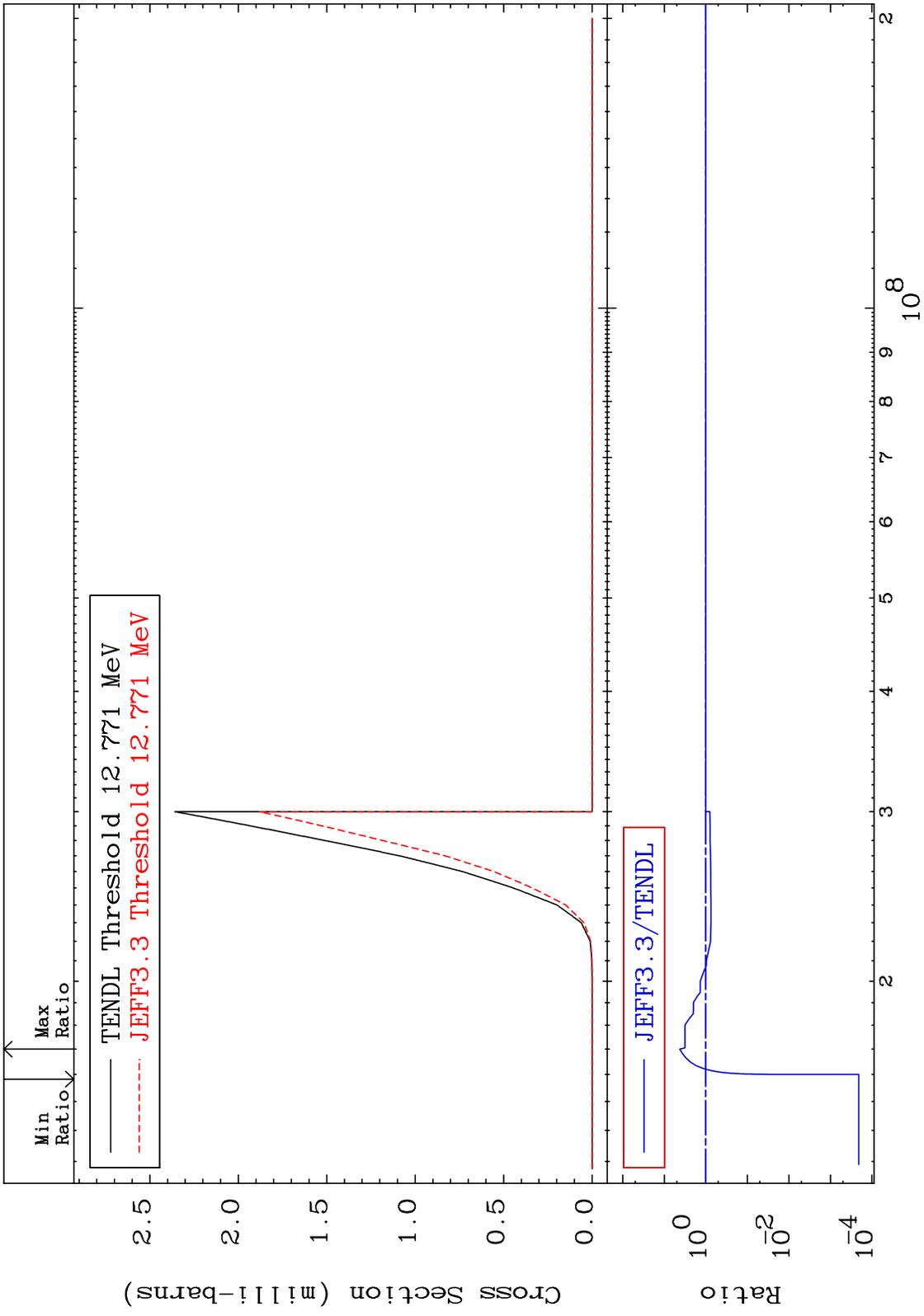
Incident Energy (eV)

MAT 3425 (n,3n) p 34-Se-74  
 Cross Section 0.000 To 11.89 %

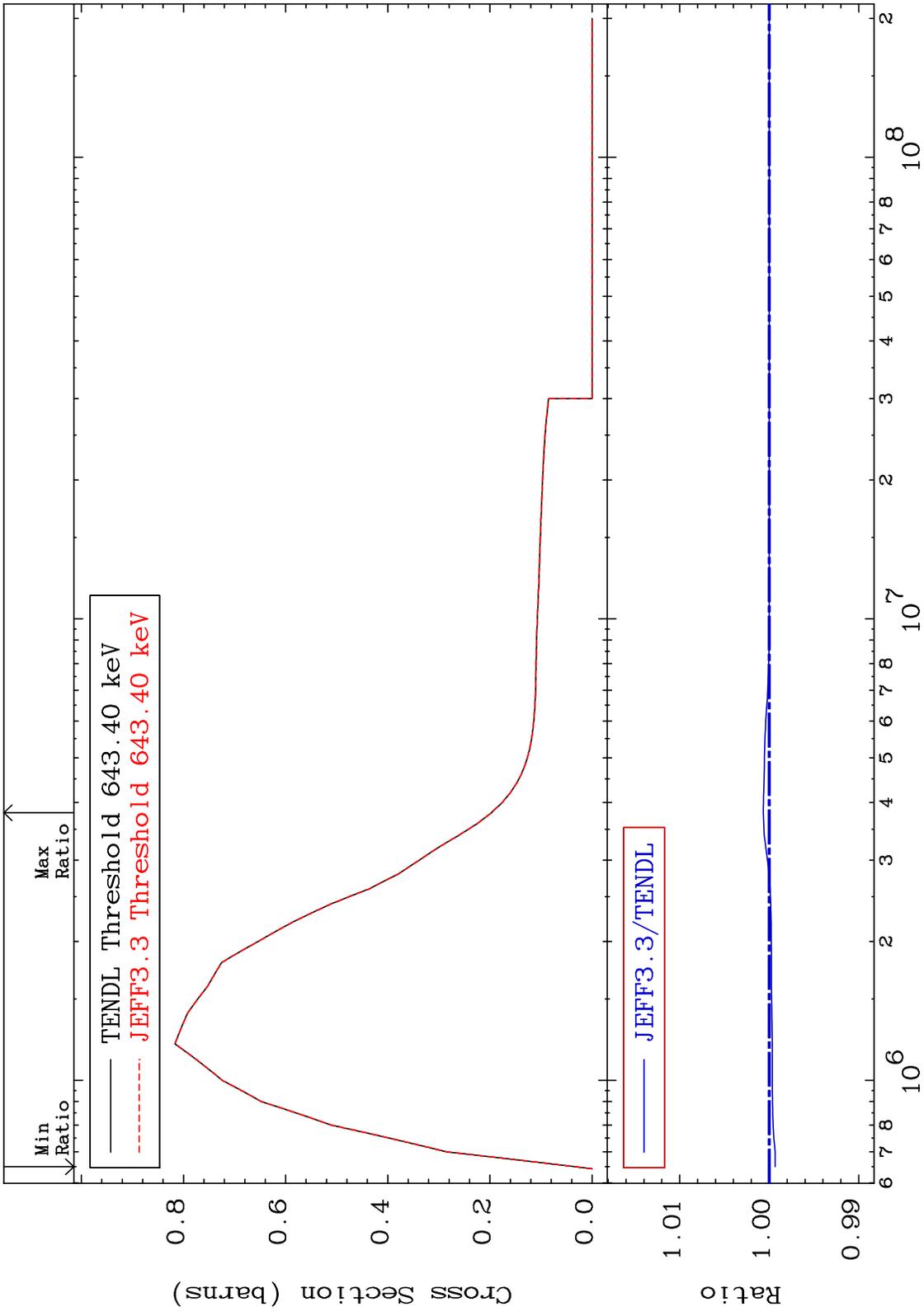


MAT 3425  $(n, 2n)$  p  $^{34}\text{Se-74}$   
 Cross Section -1.032 To 7.948 %

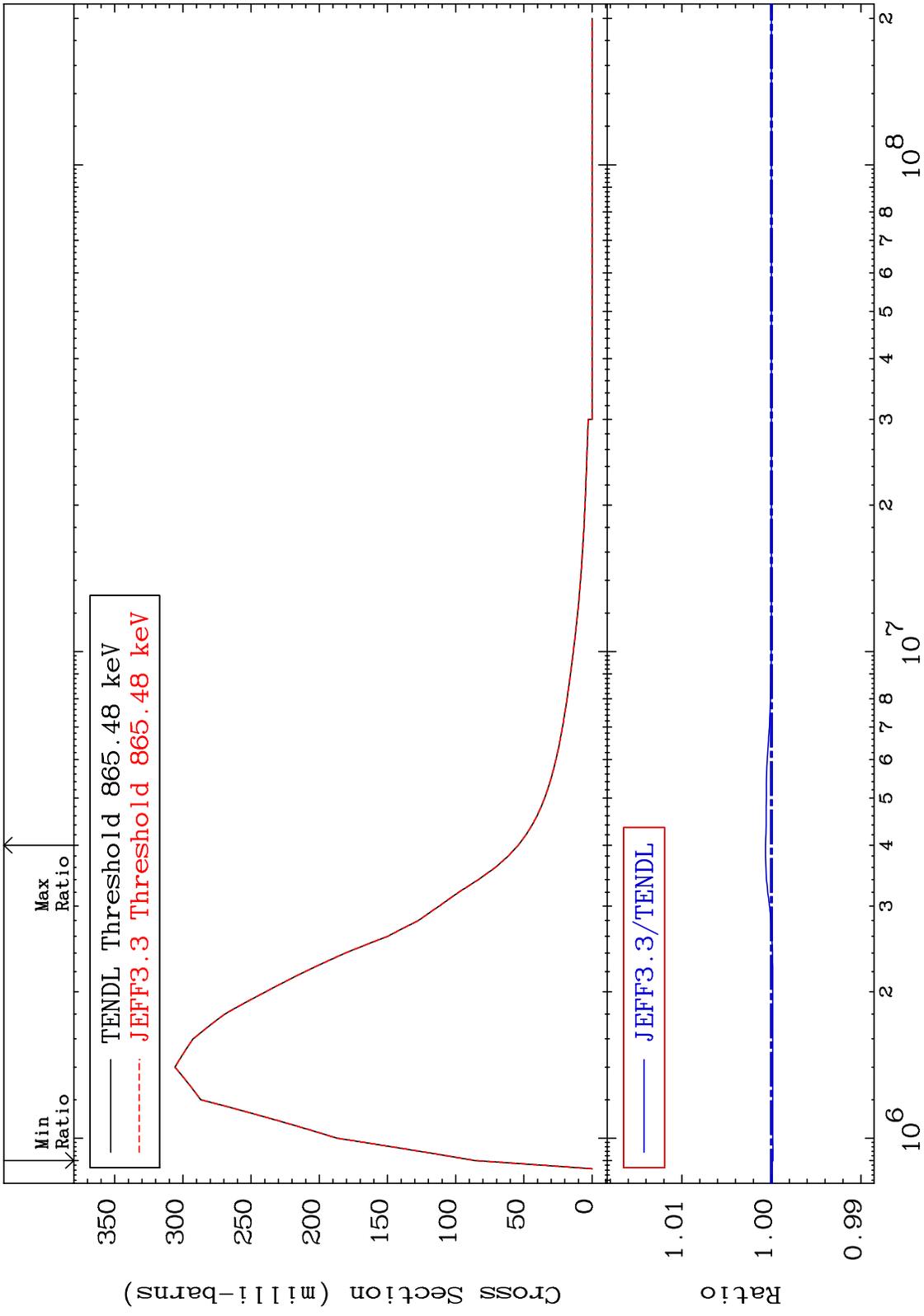




MAT 3425 MT= 51 (n,n') Level Cross Section 34-Se-74  
 -0.066 To 0.065 %

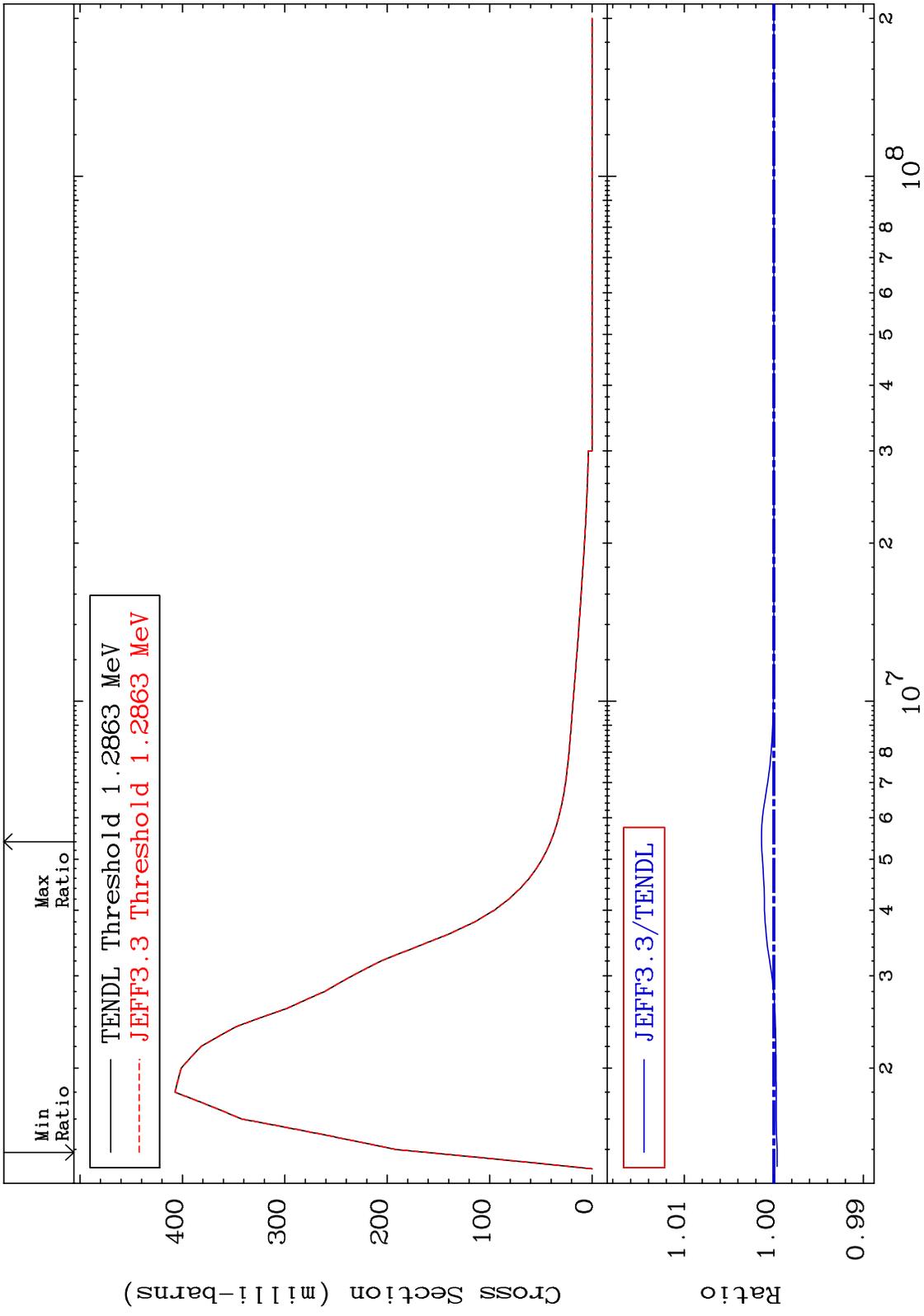


MAT 3425 MT= 52 (n,n') Level Cross Section -0.018 To 0.065 % 34-Se-74

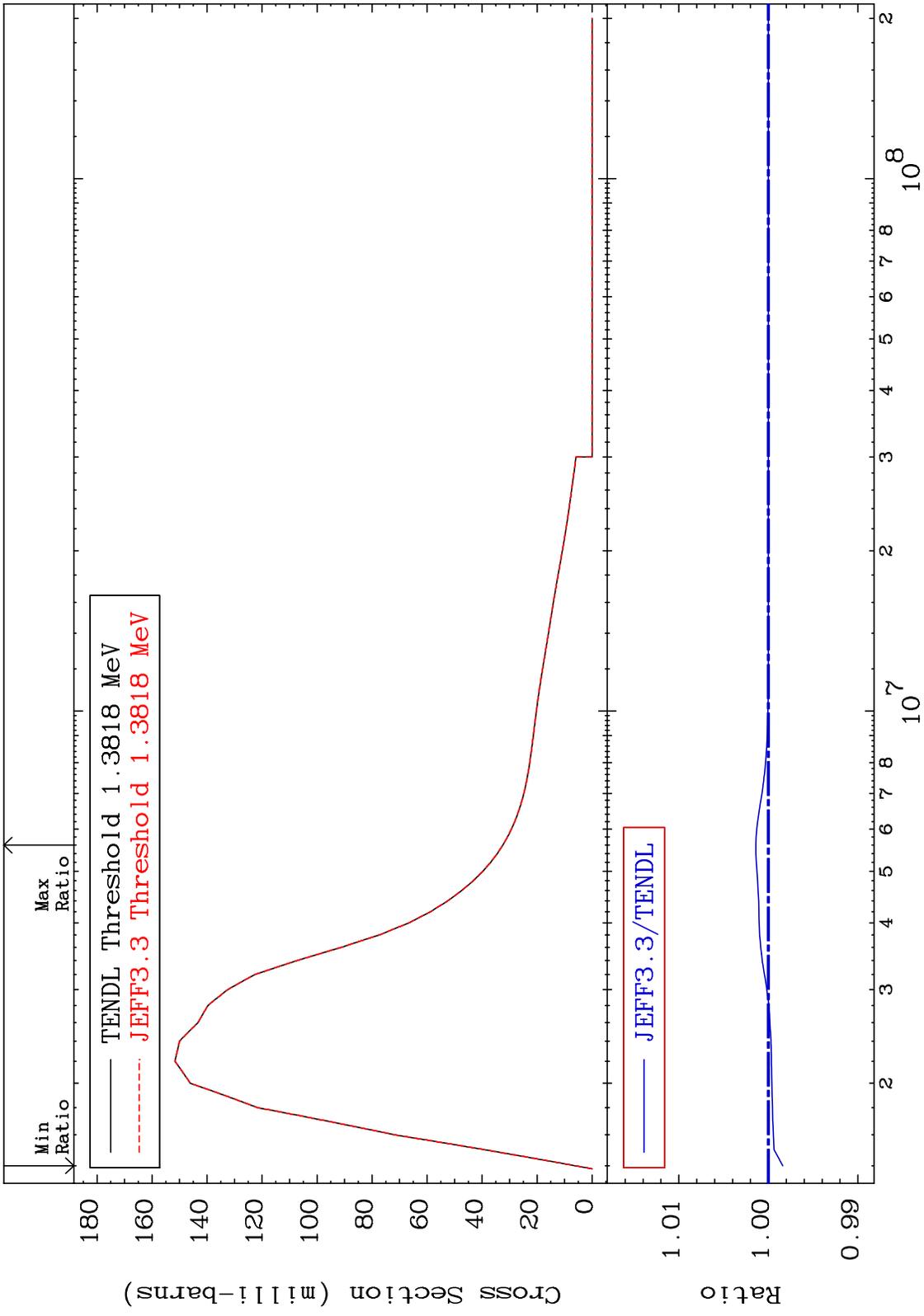


34-Se-74

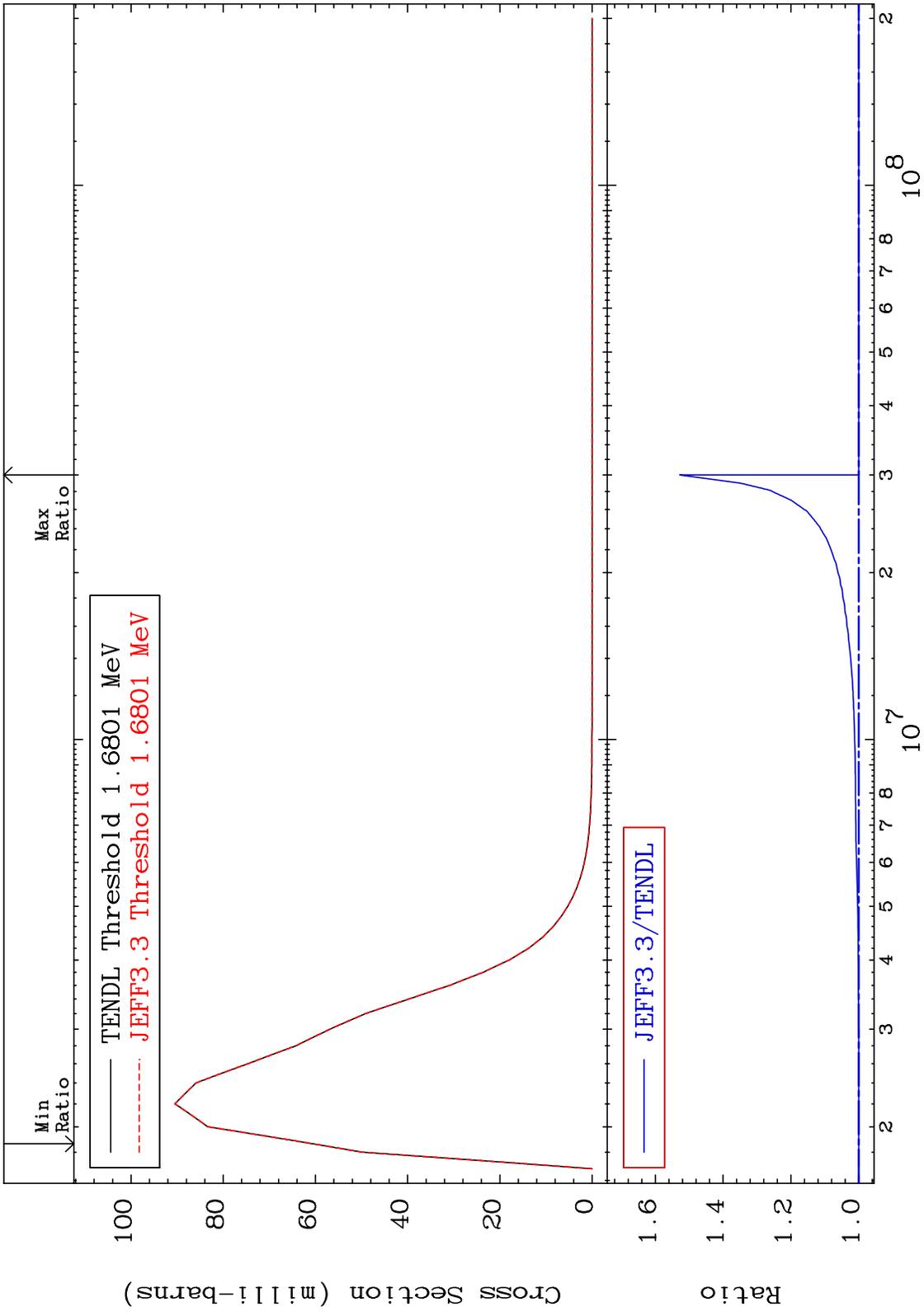
MAT 3425 MT= 53 (n,n') Level Cross Section -0.036 To 0.137 % 34-Se-74



MAT 3425 MT= 54 (n,n') Level Cross Section -0.160 To 0.140 % 34-Se-74



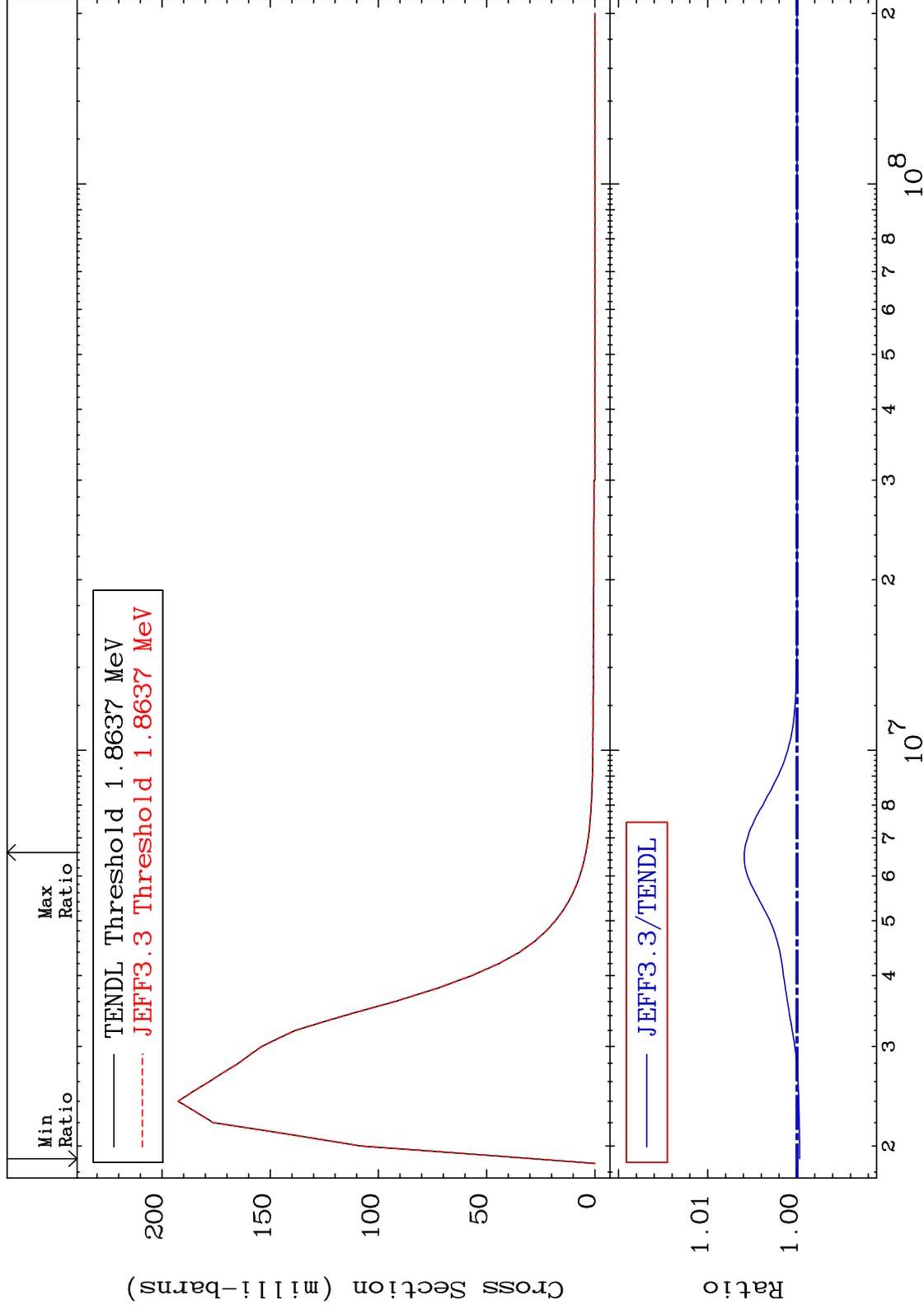
MAT 3425 MT= 55 (n,n') Level Cross Section 34-Se-74  
 -0.018 To 52.79 %



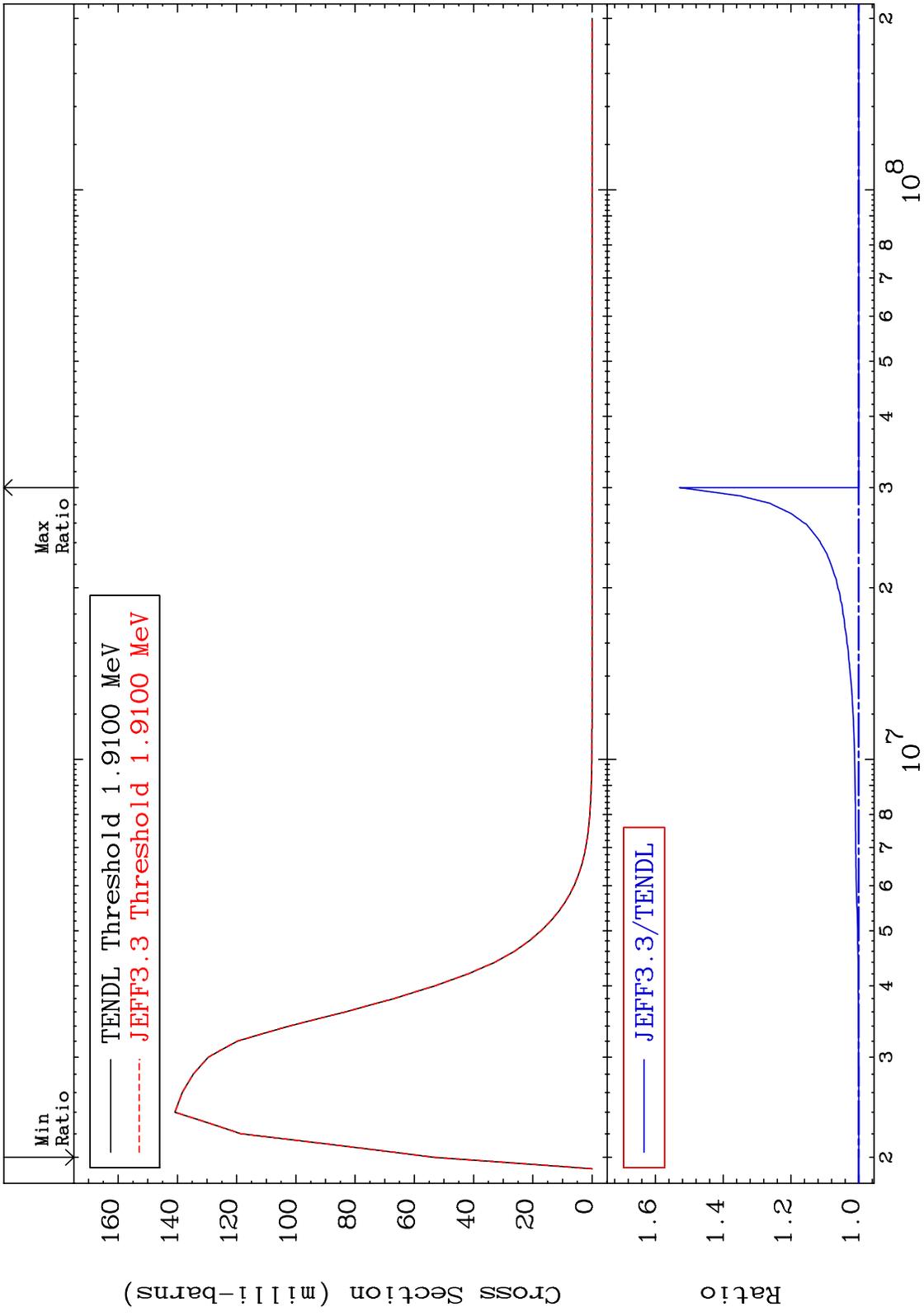
MAT 3425

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

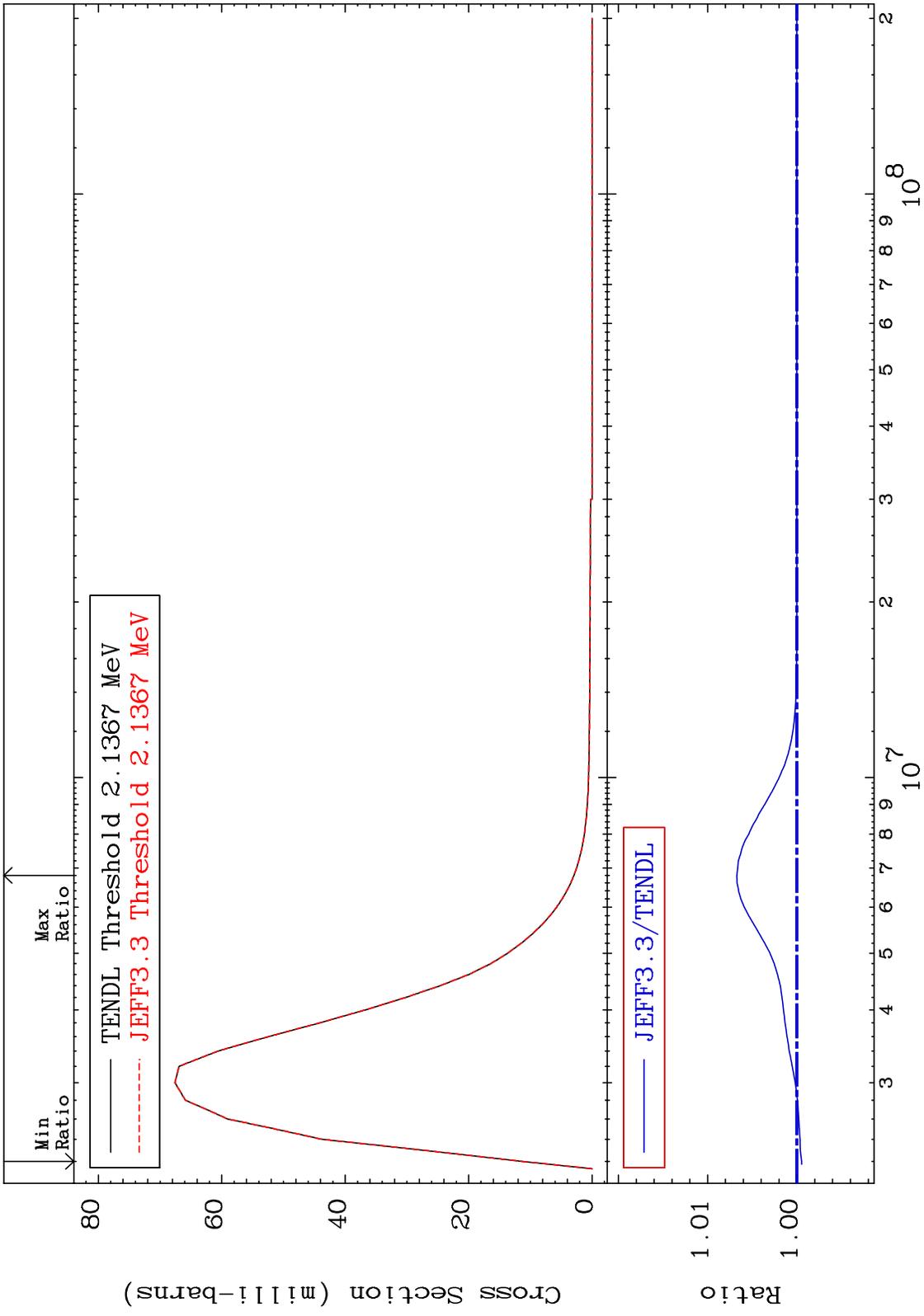
34-Se-74  
-0.029 To 0.591 %



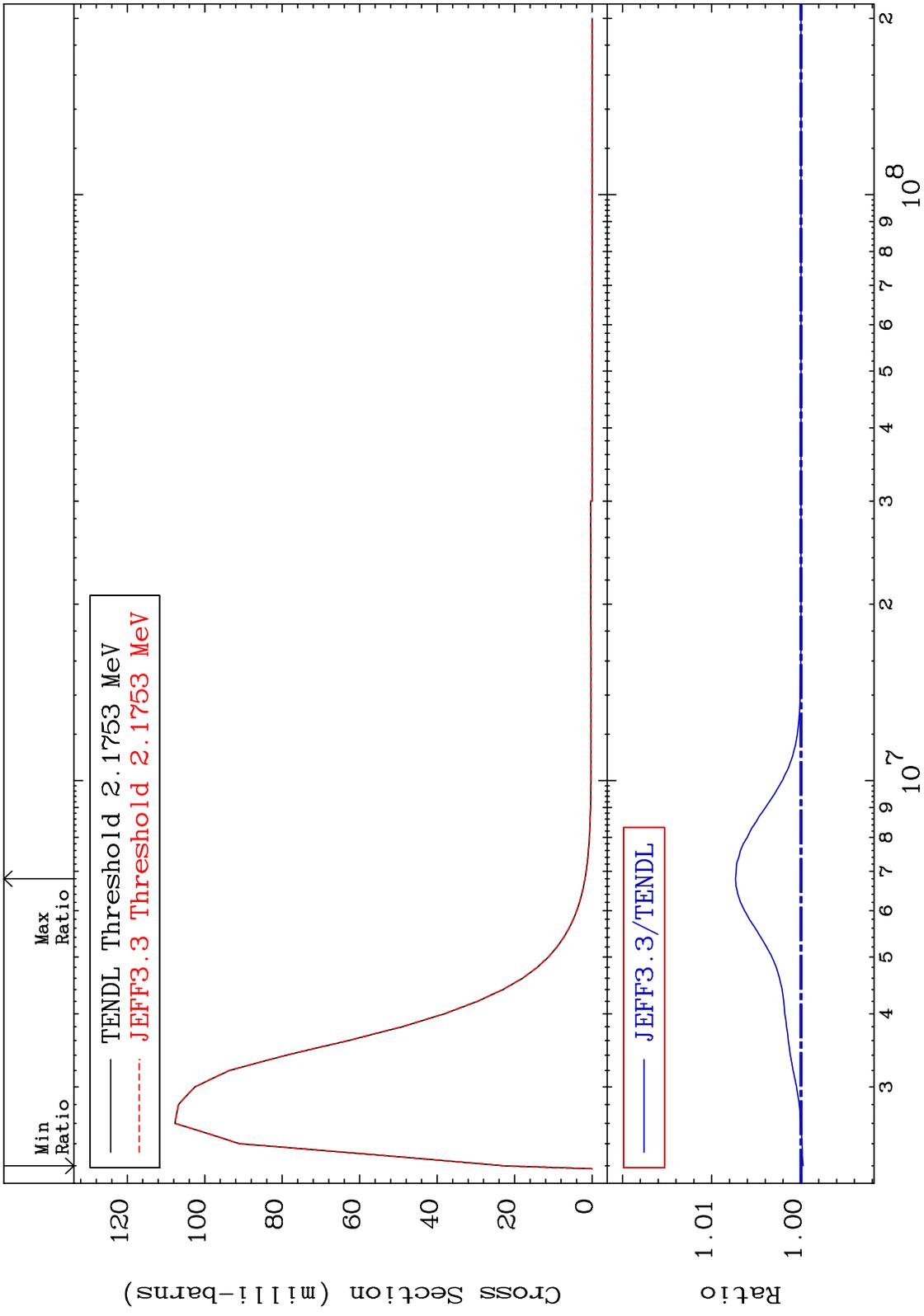
MAT 3425 MT= 57 (n,n') Level Cross Section -0.037 To 52.81 % 34-Se-74



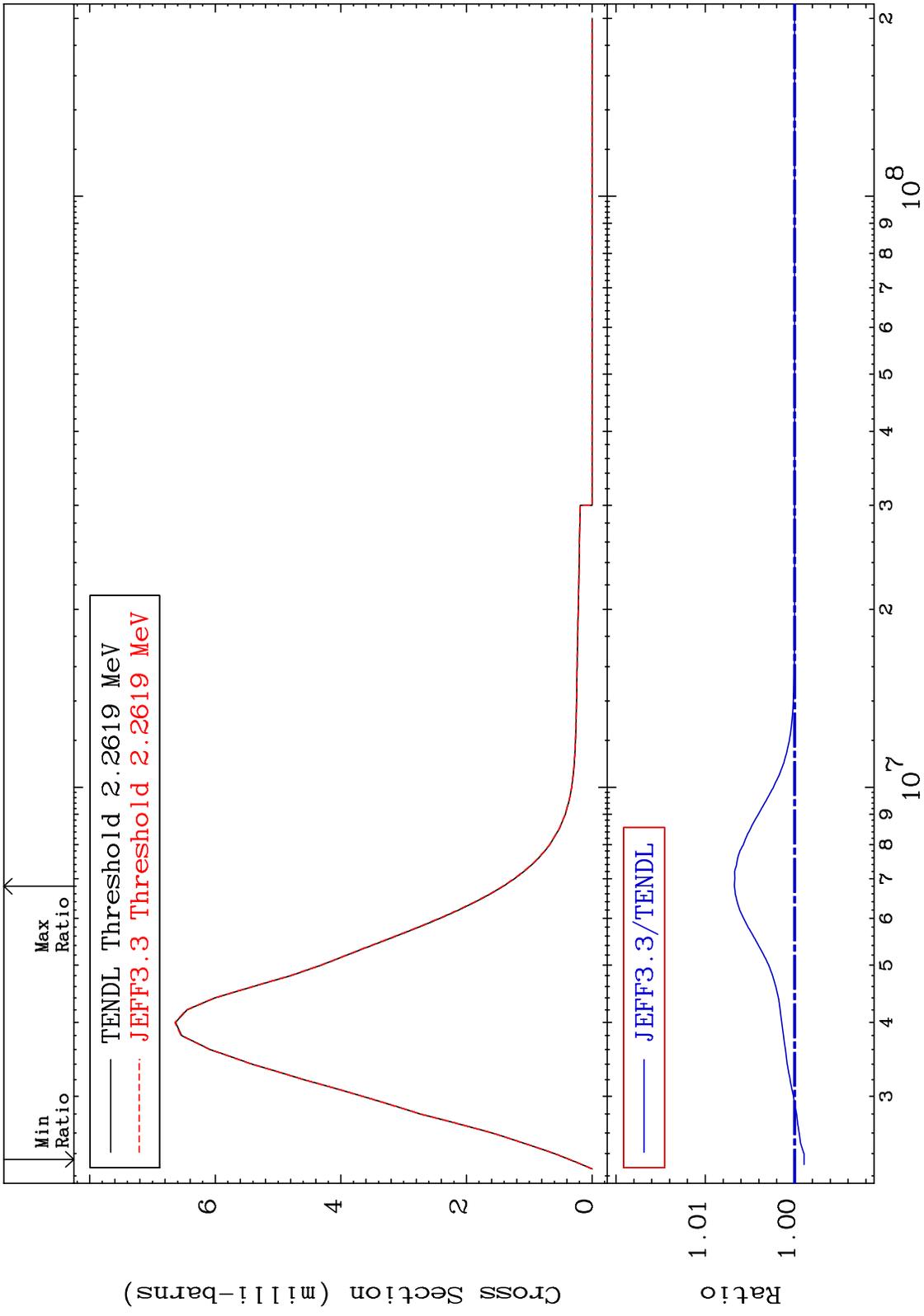
MAT 3425 MT= 58 (n,n') Level Cross Section 34-Se-74 -0.053 To 0.672 %



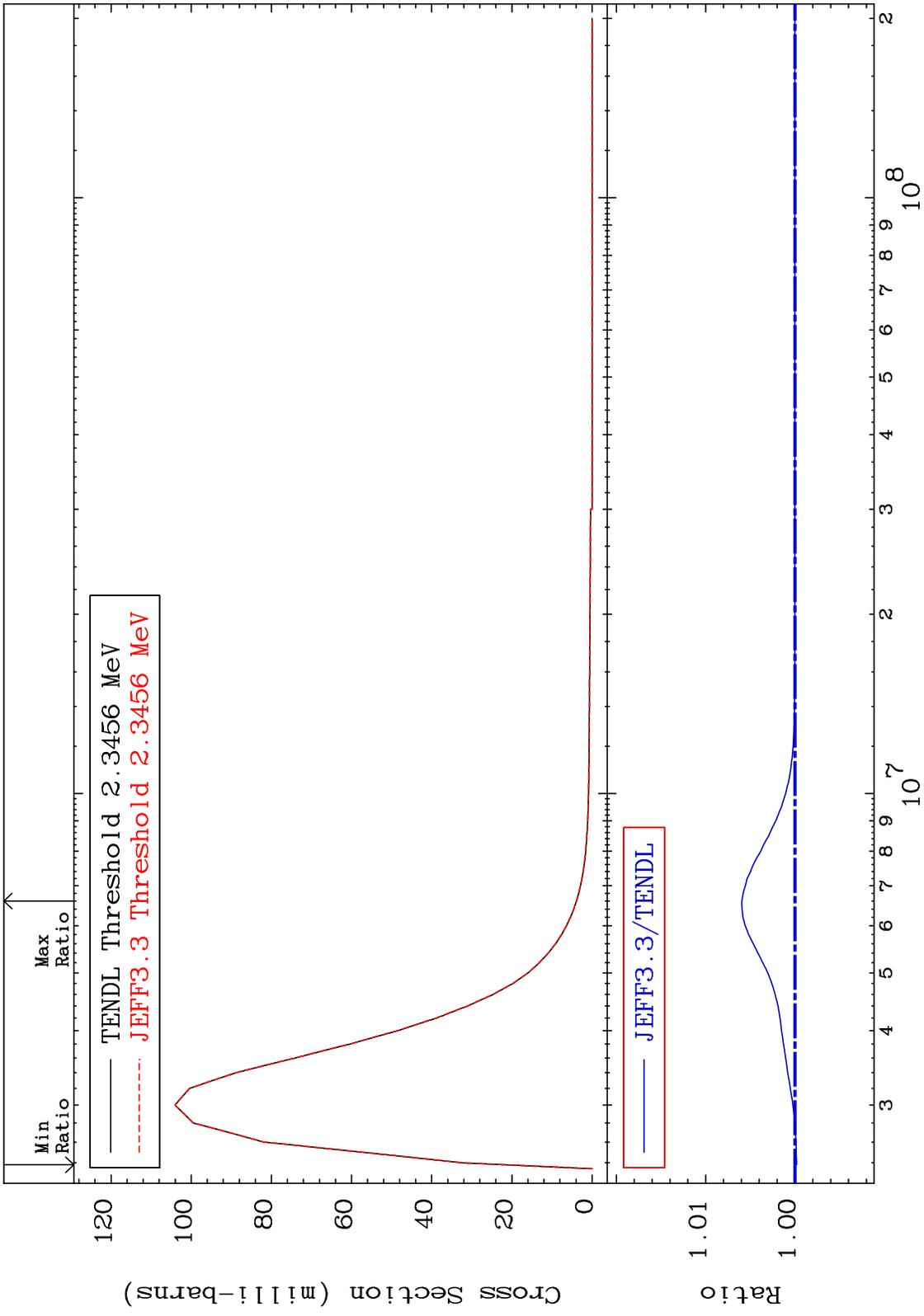
MAT 3425 MT= 59 (n,n') Level Cross Section -0.024 To 0.734 % 34-Se-74



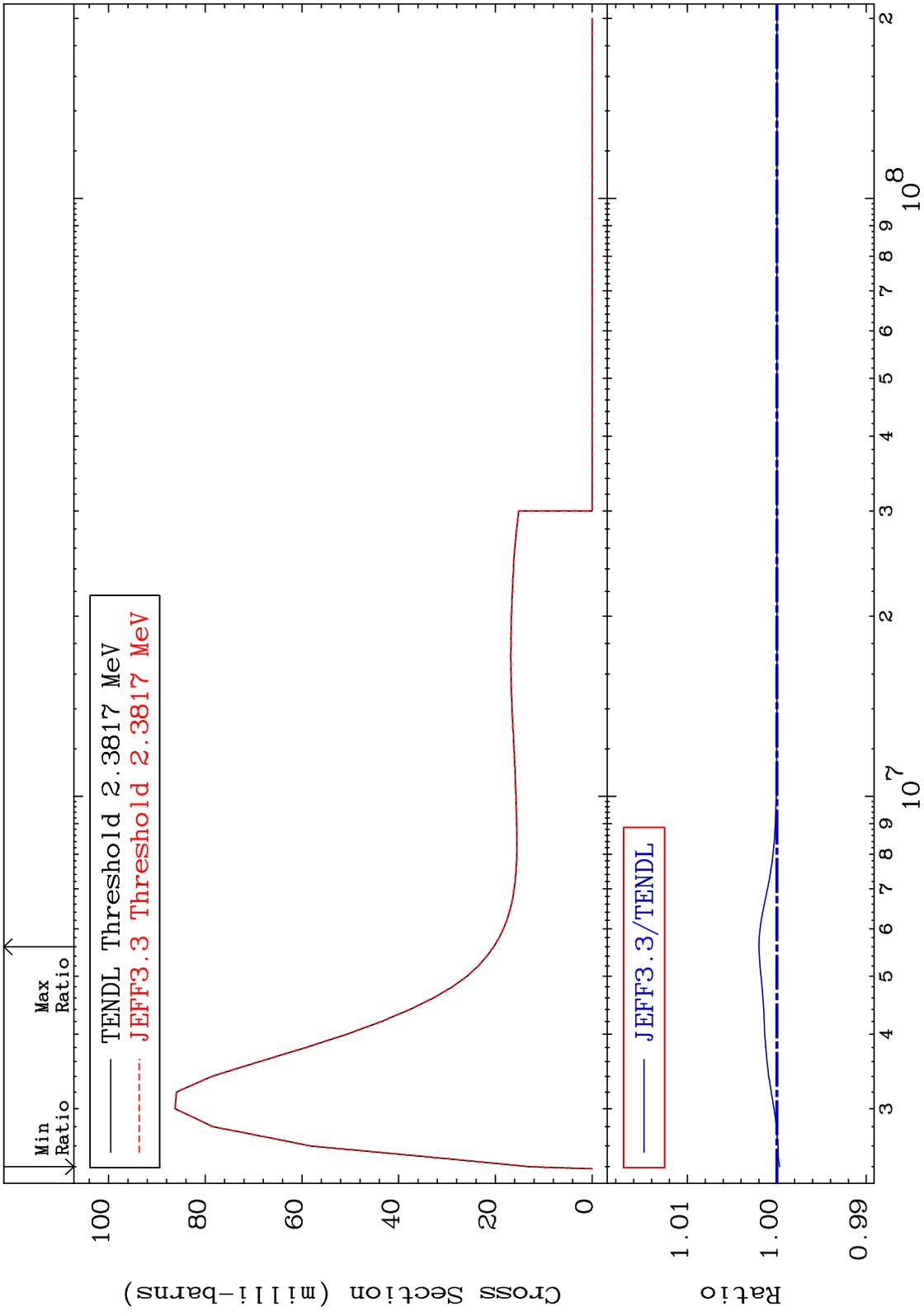
MAT 3425 MT= 60 (n,n') Level Cross Section 34-Se-74  
 -0.107 To 0.673 %



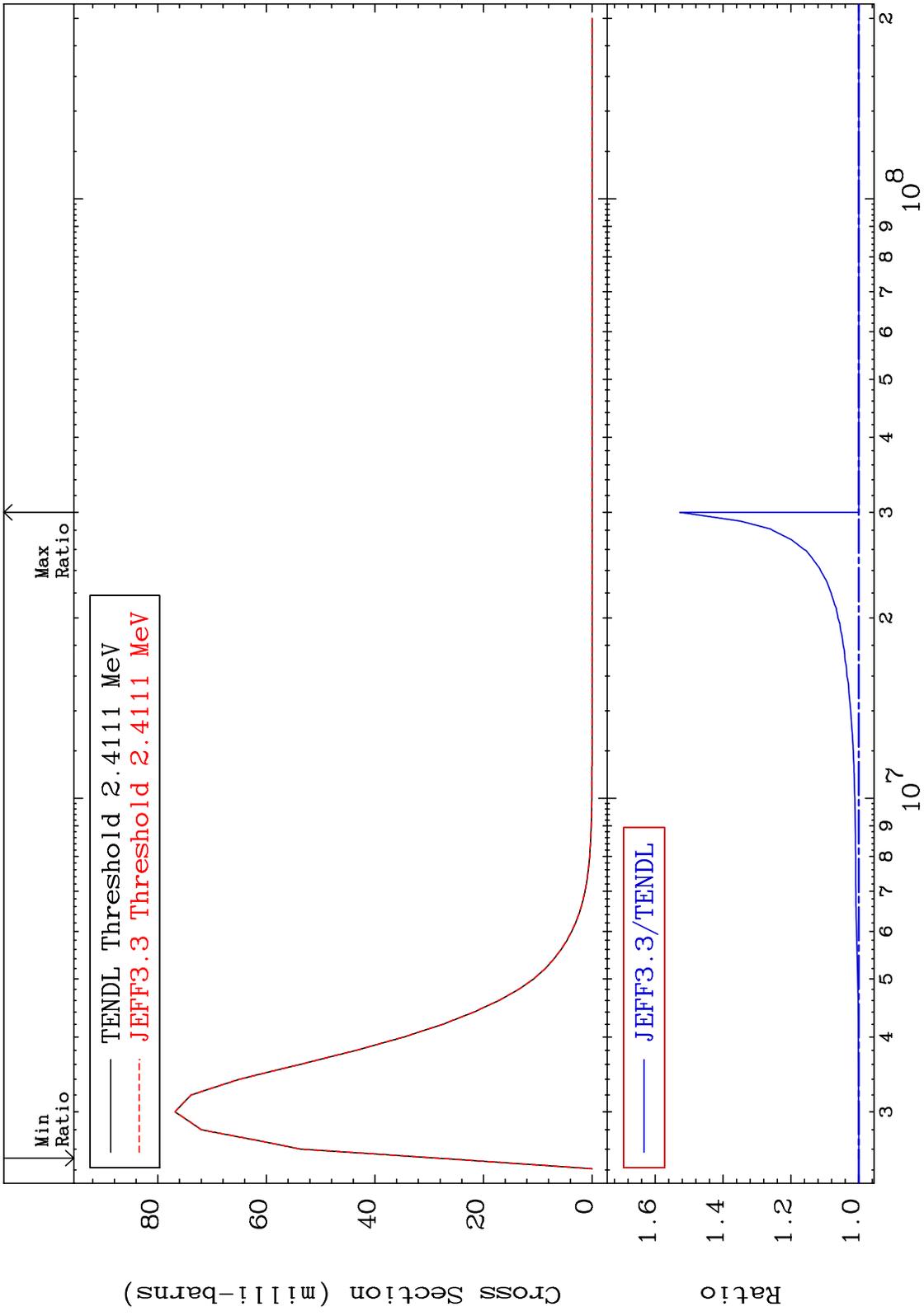
MAT 3425 MT= 61 (n,n') Level Cross Section 34-Se-74  
 -0.019 To 0.594 %



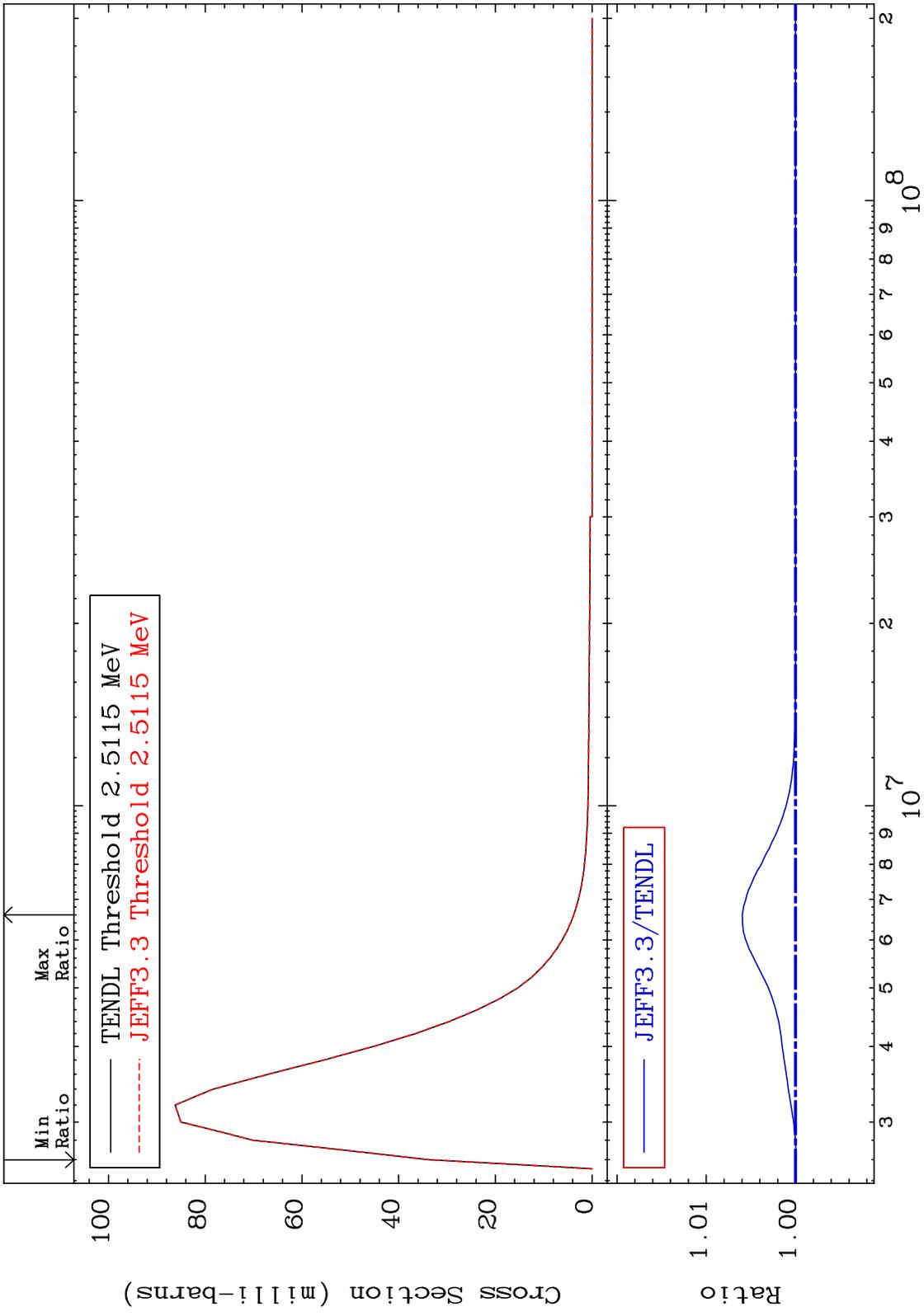
MAT 3425 MT= 62 (n,n') Level Cross Section 34-Se-74  
 -0.030 To 0.199 %



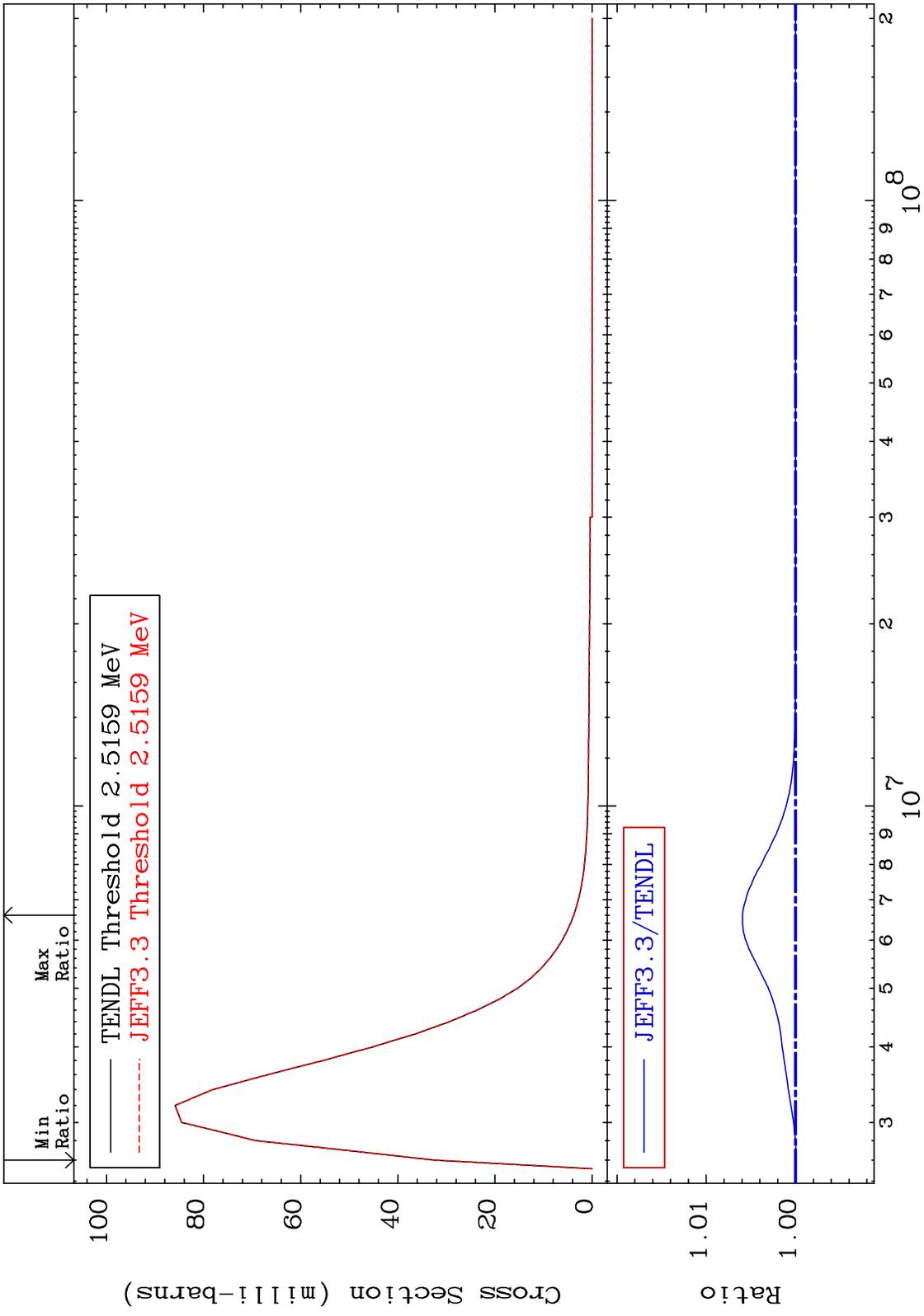
MAT 3425 MT= 63 (n, n') Level Cross Section -0.003 To 52.78 % 34-Se-74



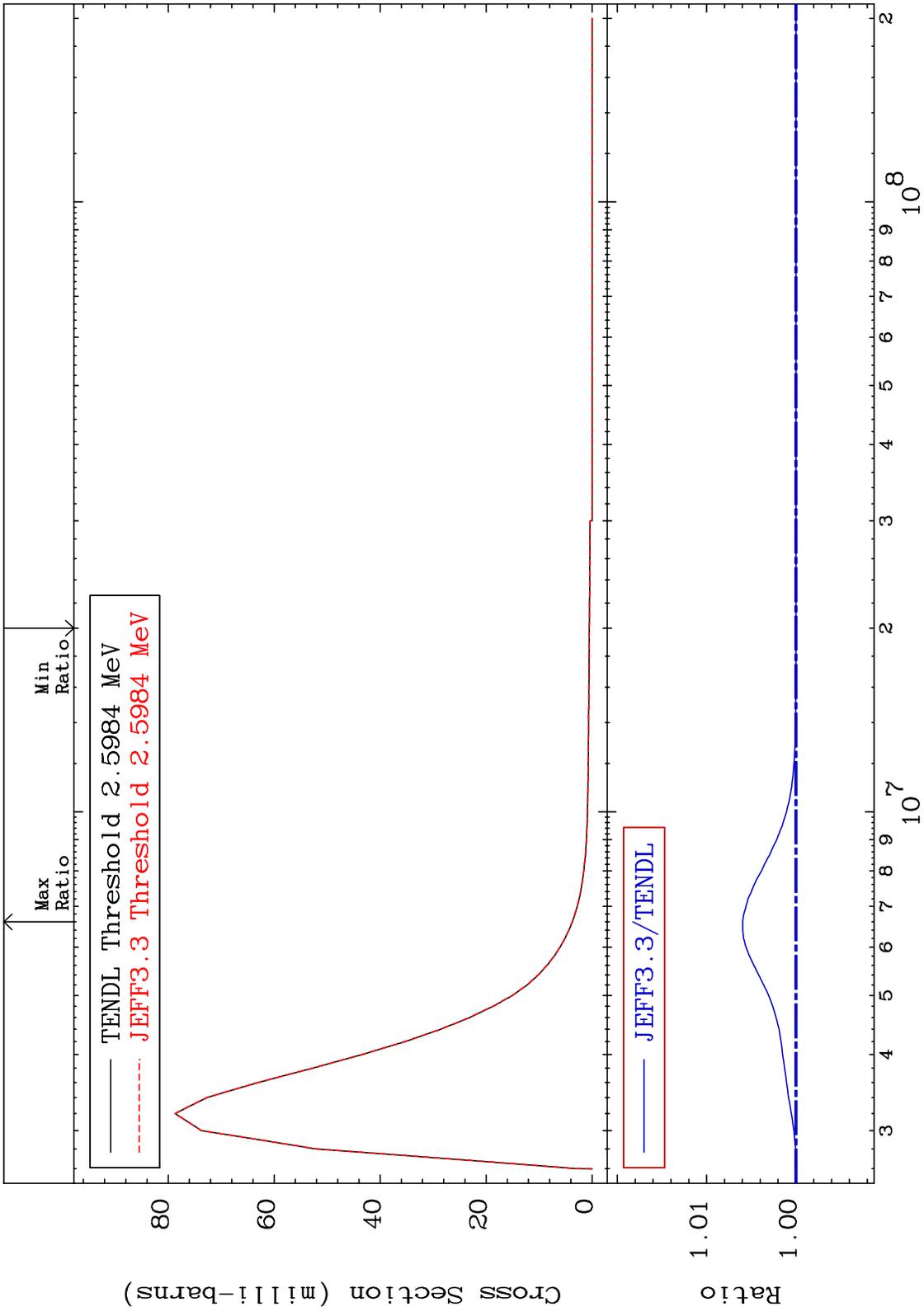
MAT 3425 MT= 64 (n,n') Level Cross Section 34-Se-74  
 -0.007 To 0.595 %



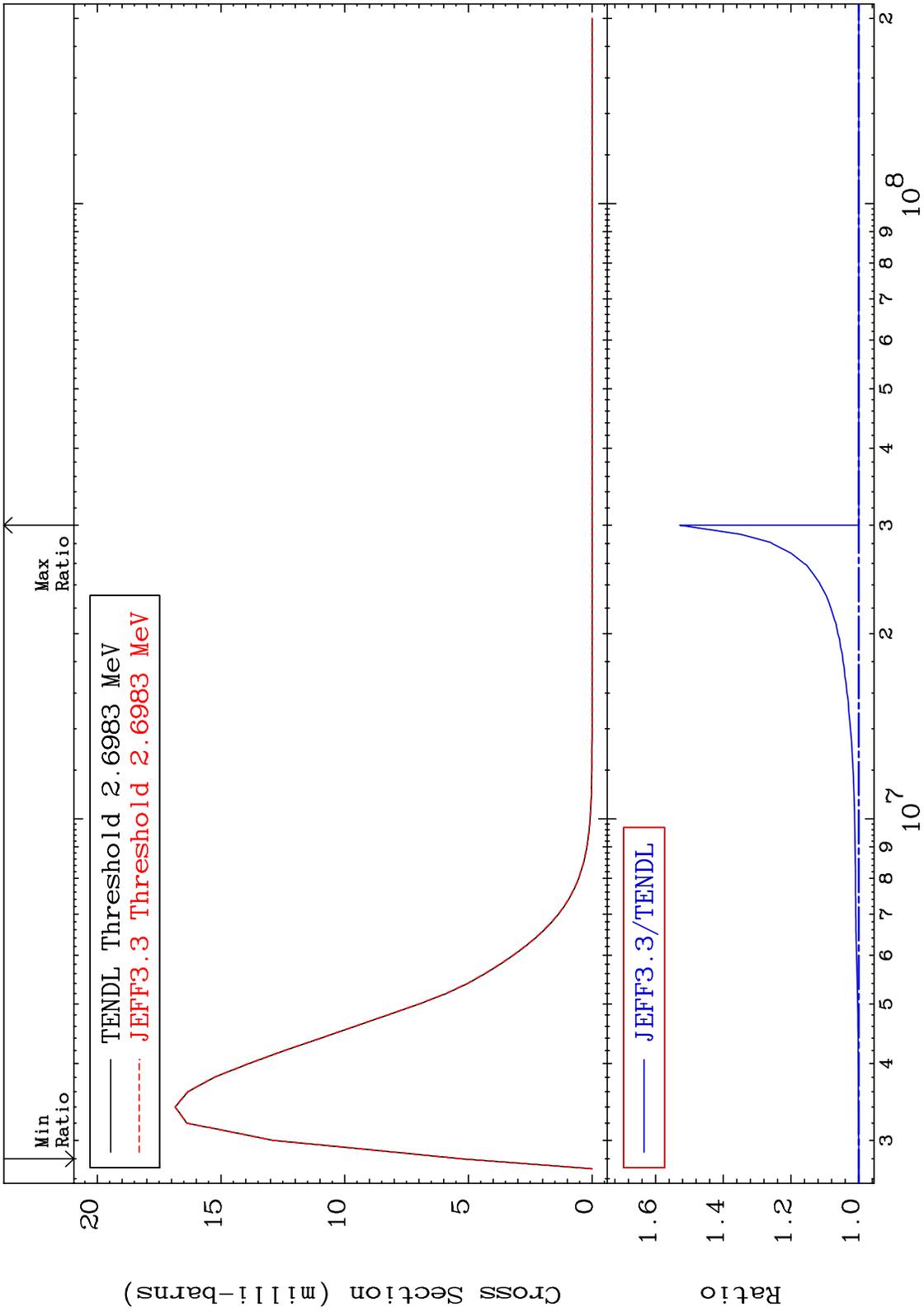
MAT 3425 MT= 65 (n,n') Level Cross Section 34-Se-74  
 -0.007 To 0.595 %



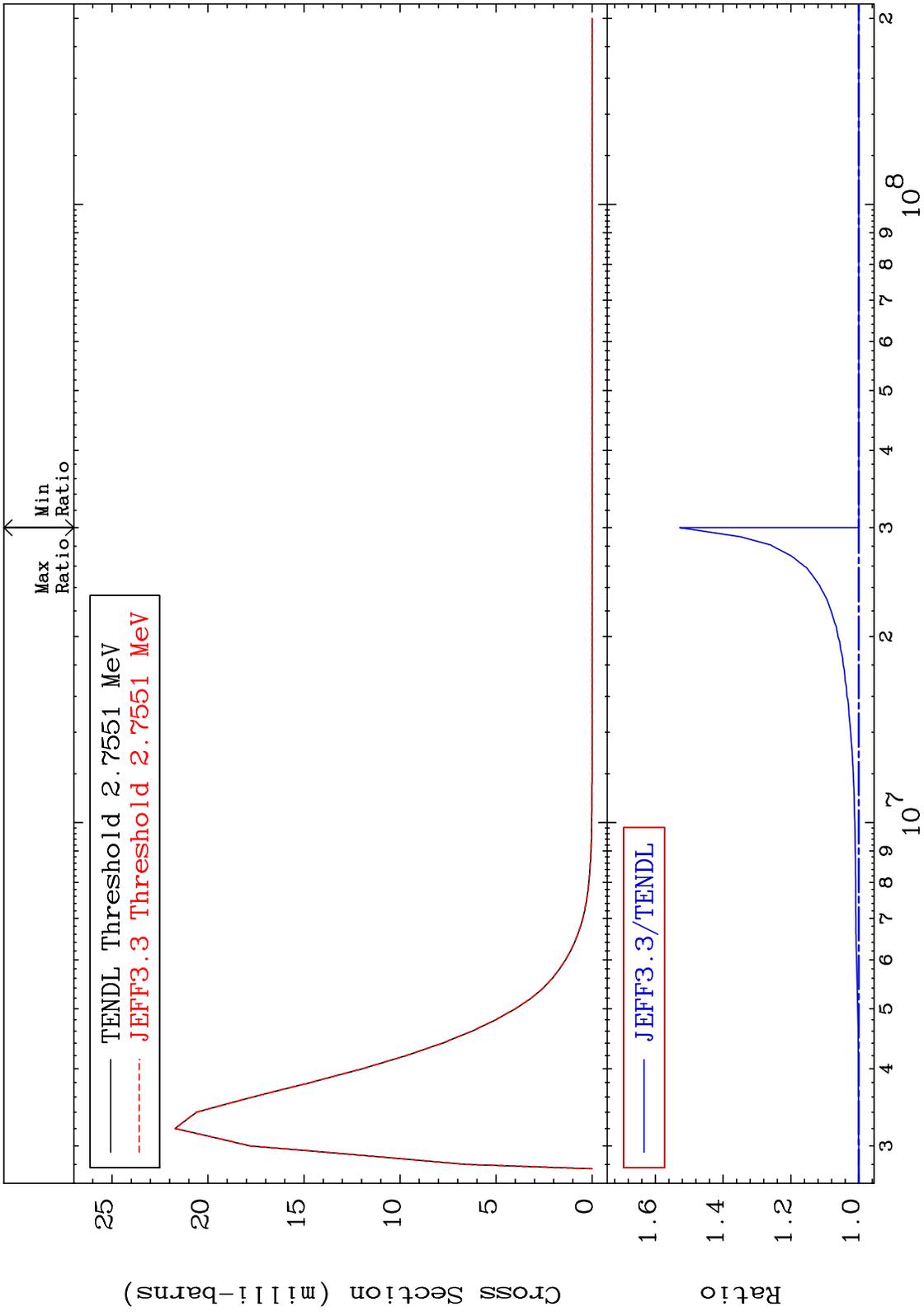
MAT 3425 MT= 66 (n,n') Level Cross Section 34-Se-74 To 0.596 %



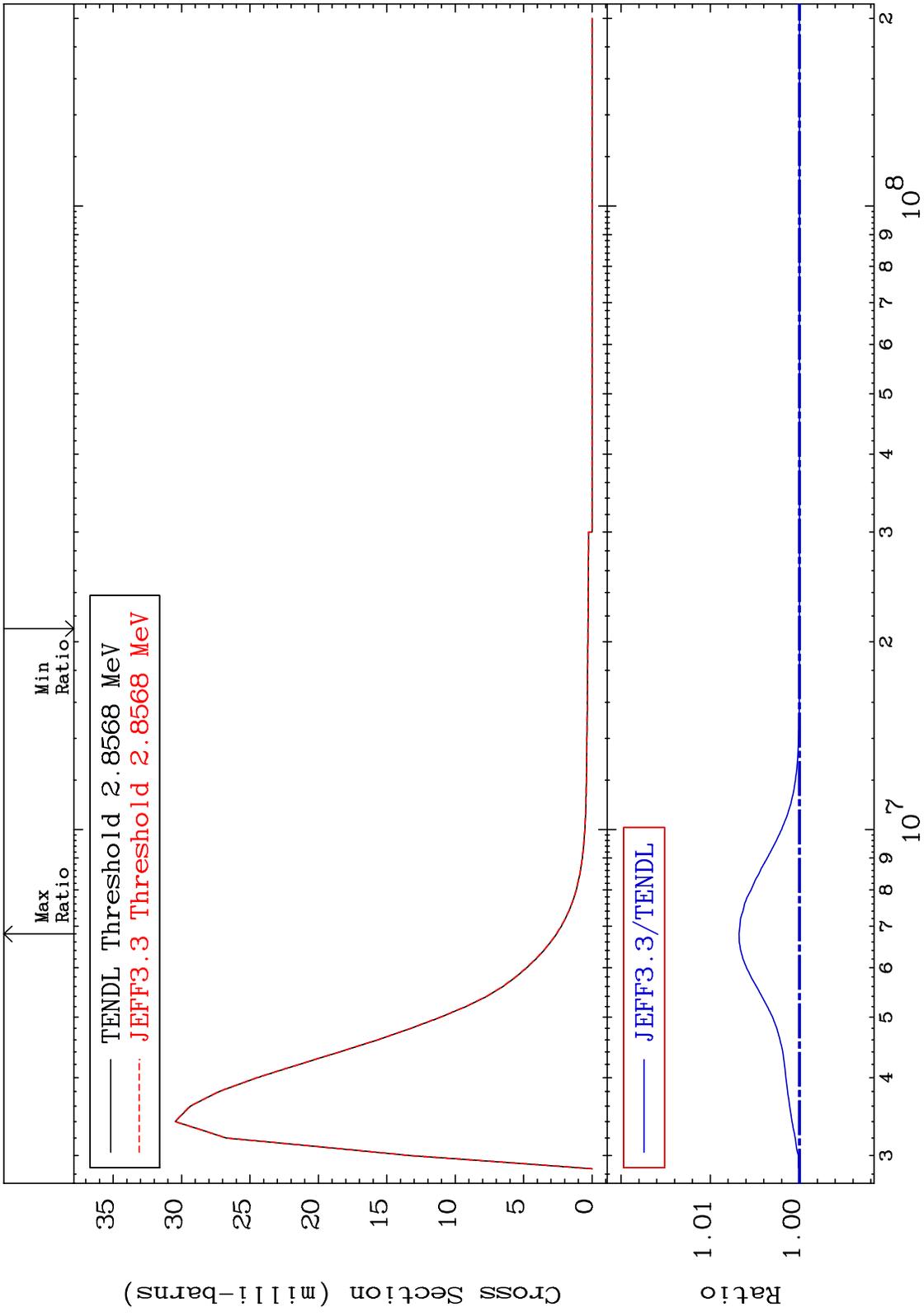
MAT 3425 MT= 67 (n, n') Level Cross Section -0.025 To 52.85 % 34-Se-74



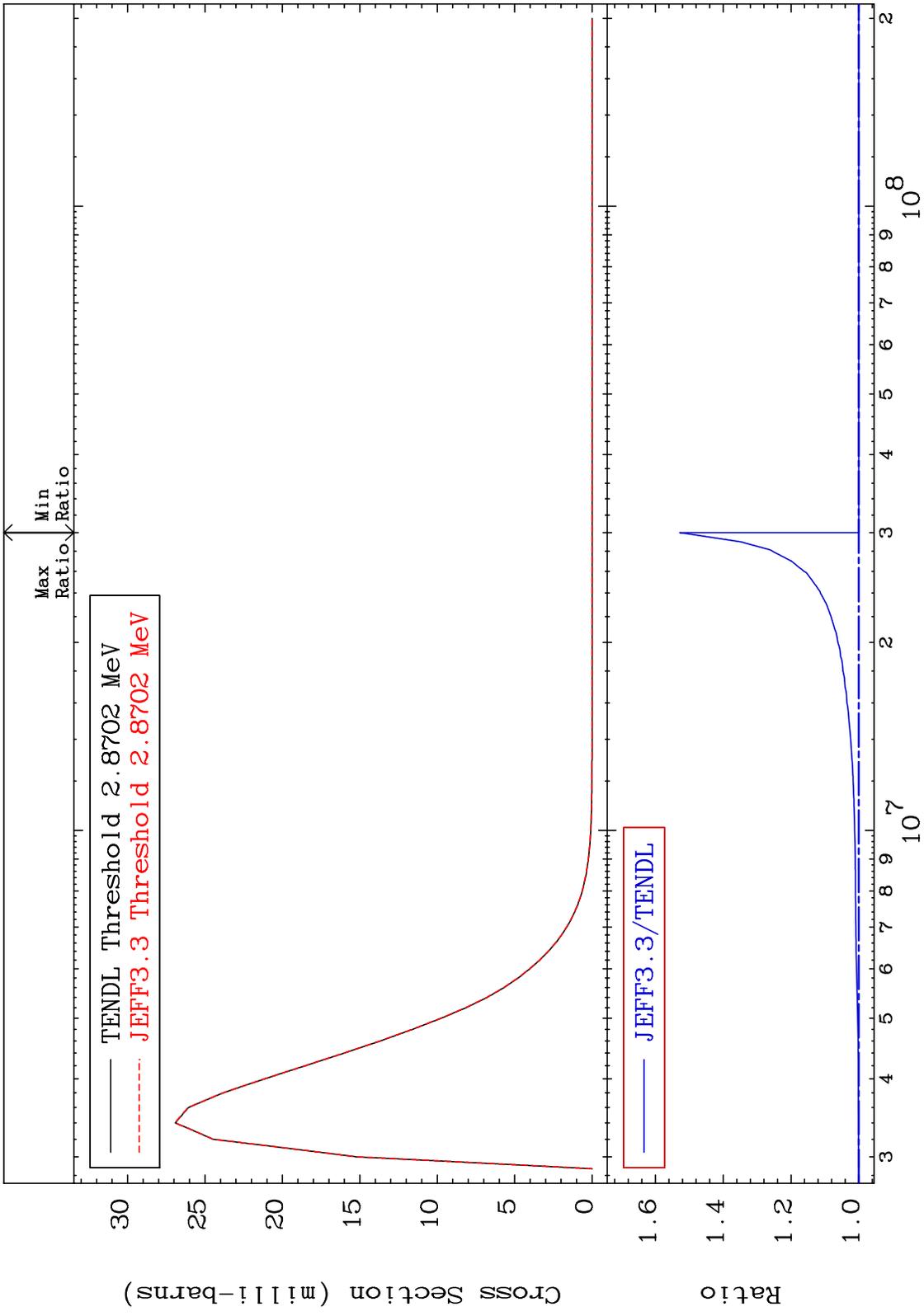
MAT 3425 MT= 68 (n,n') Level Cross Section 34-Se-74 To 52.79 %



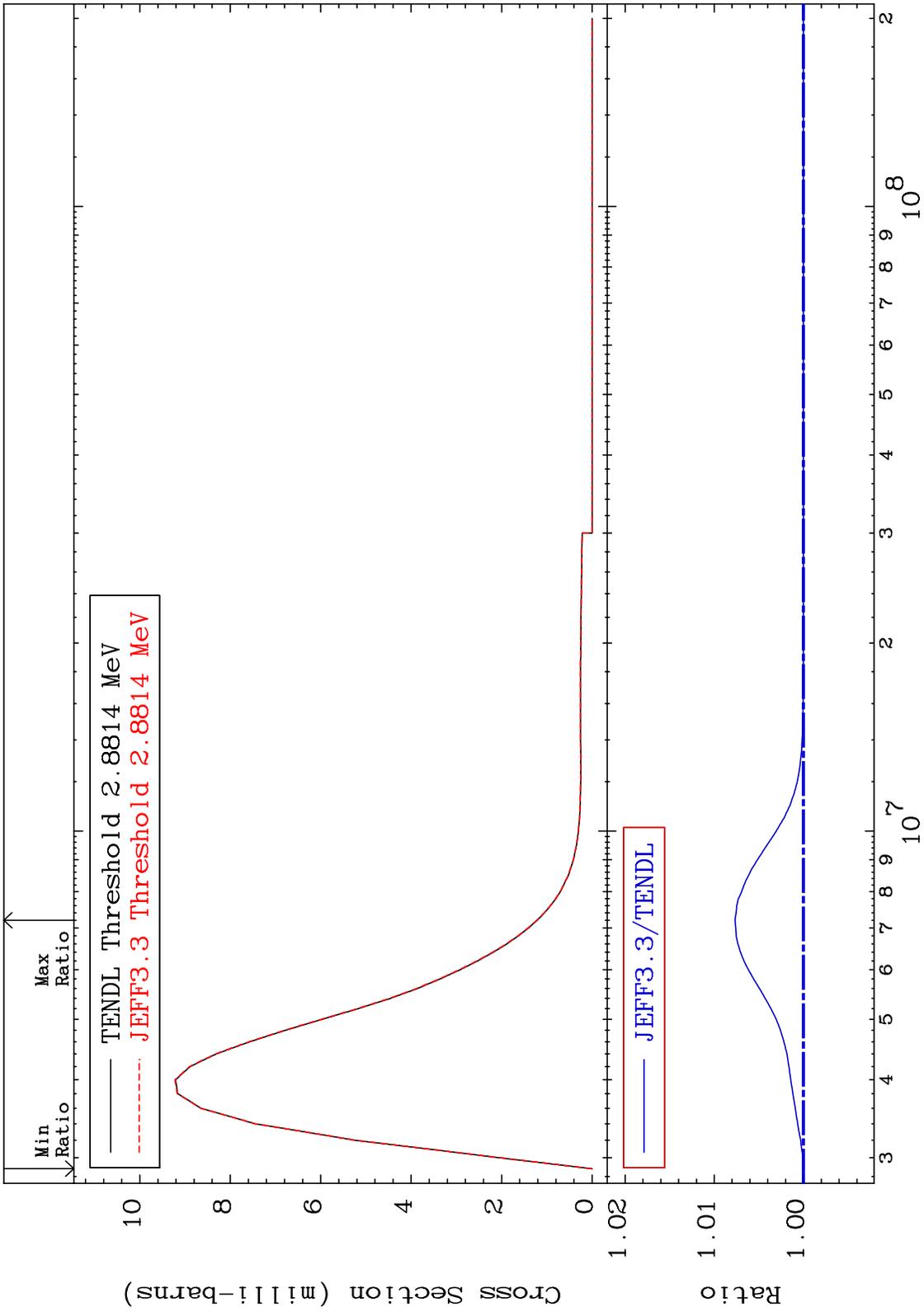
MAT 3425 MT= 69 (n,n') Level Cross Section 0.000 To 0.678 % 34-Se-74



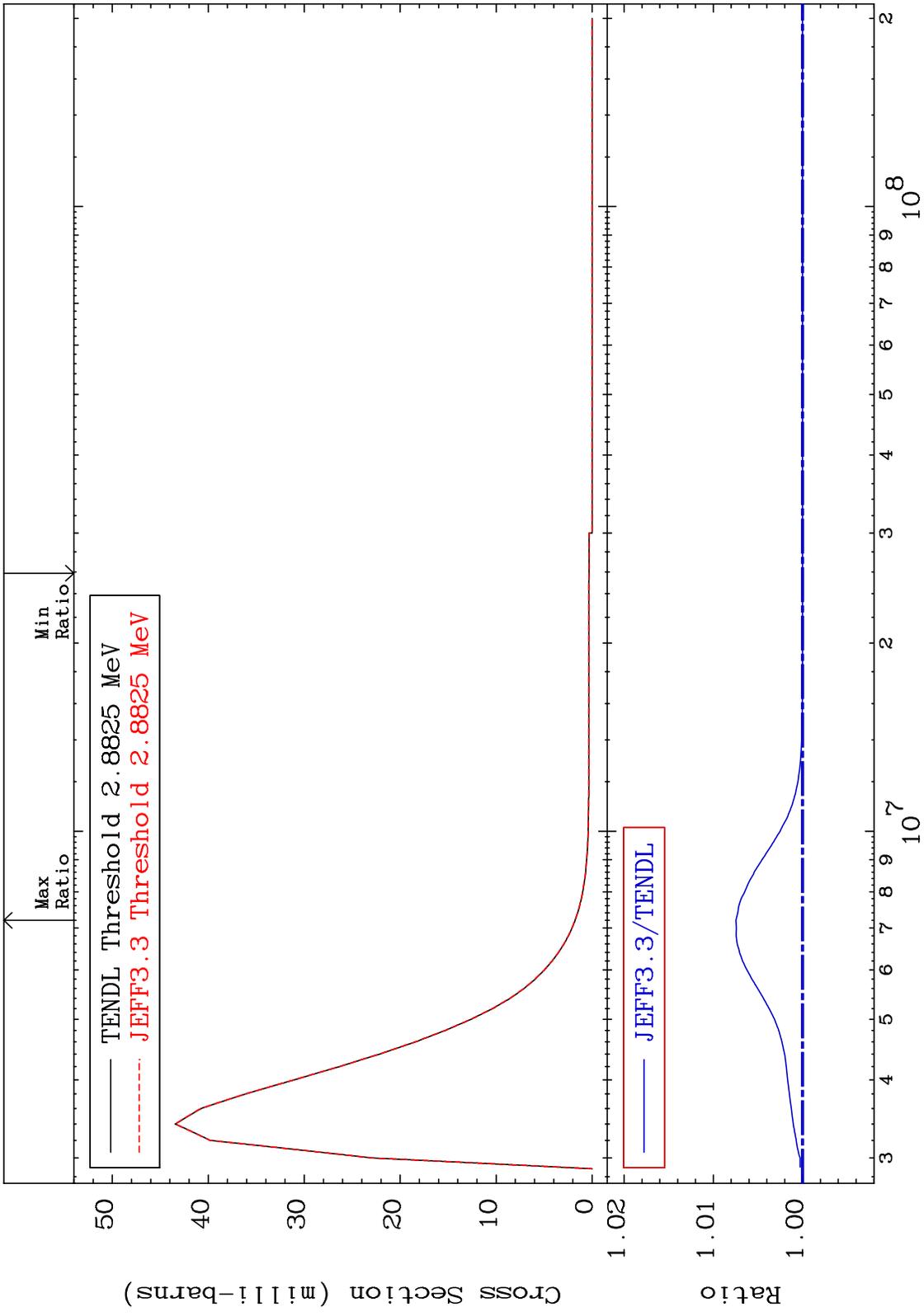
MAT 3425 MT= 70 (n,n') Level Cross Section 34-Se-74 To 52.82 %



MAT 3425 MT= 71 (n,n') Level Cross Section -0.002 To 0.768 % 34-Se-74

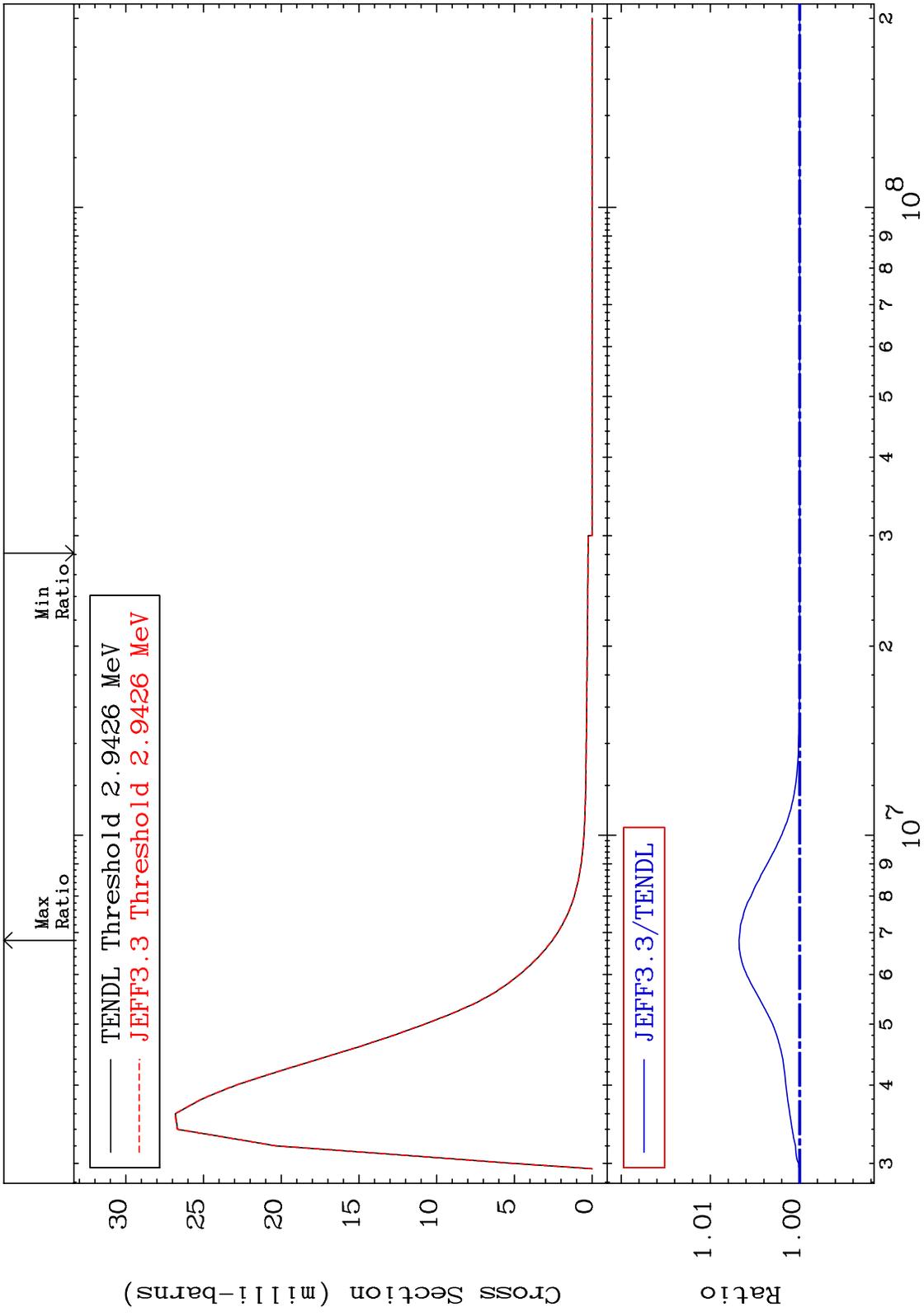


MAT 3425 MT= 72 (n,n') Level Cross Section 34-Se-74 To 0.746 %

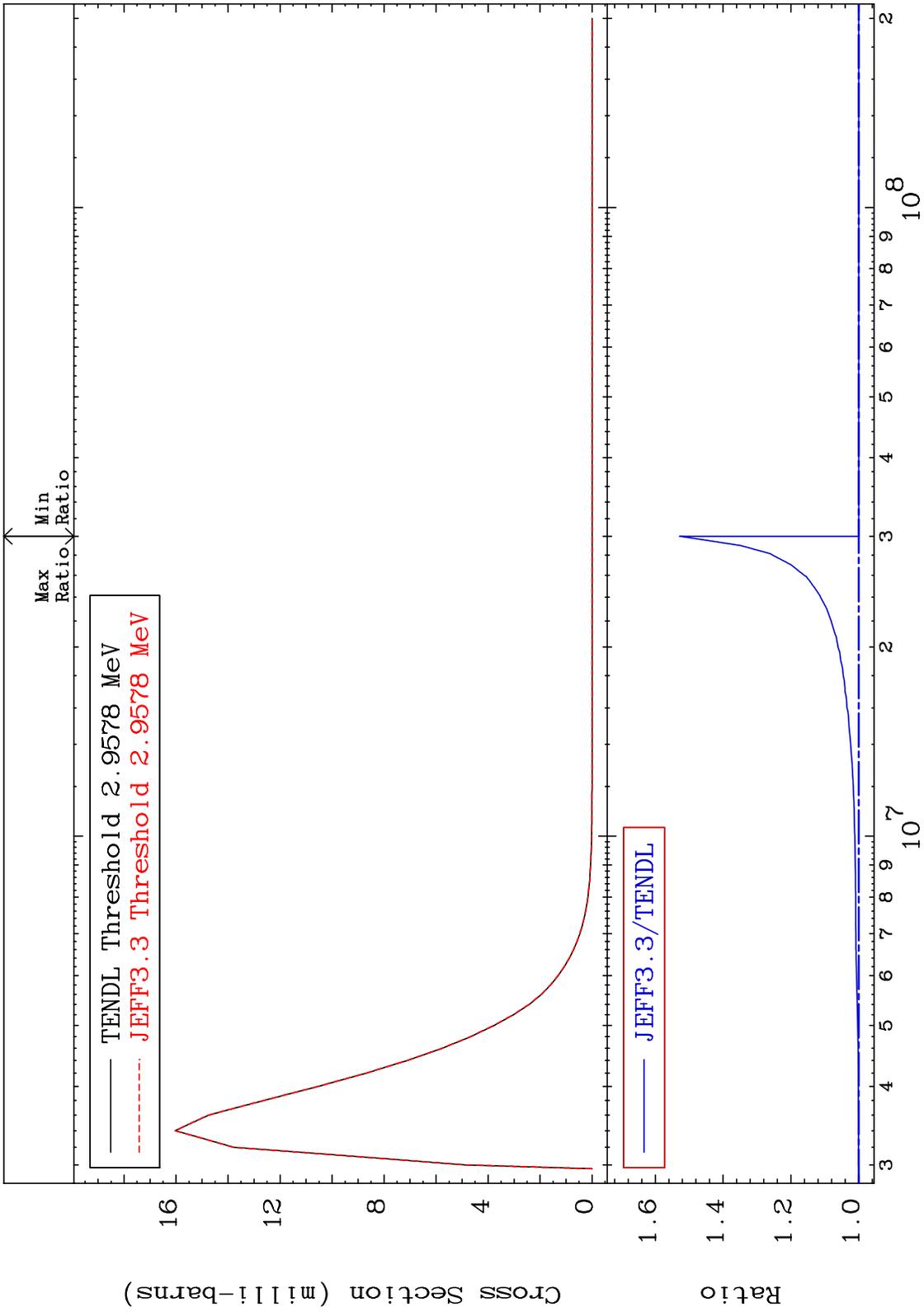


40 34-Se-74

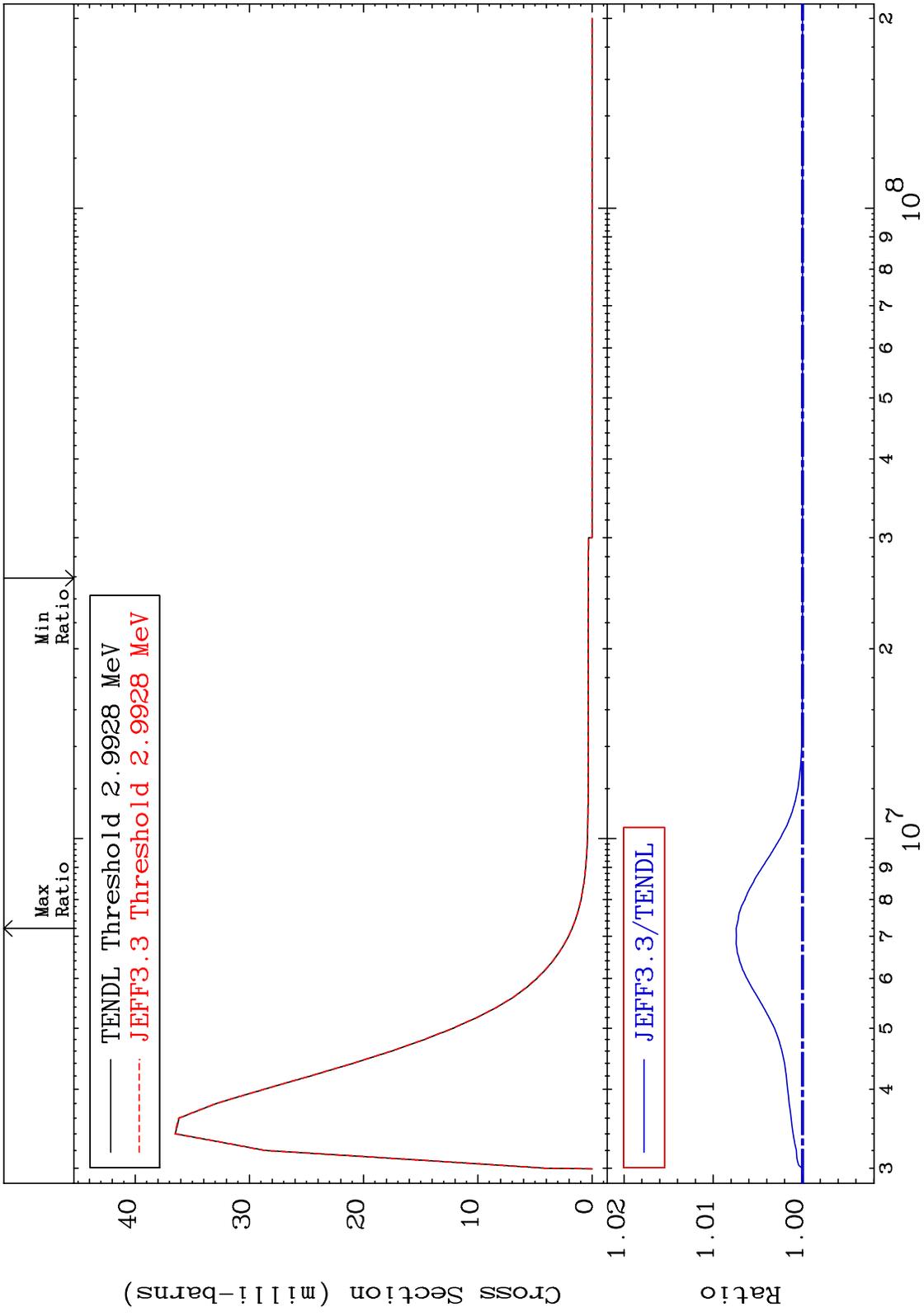
MAT 3425 MT= 73 (n,n') Level Cross Section 34-Se-74 To 0.679 %



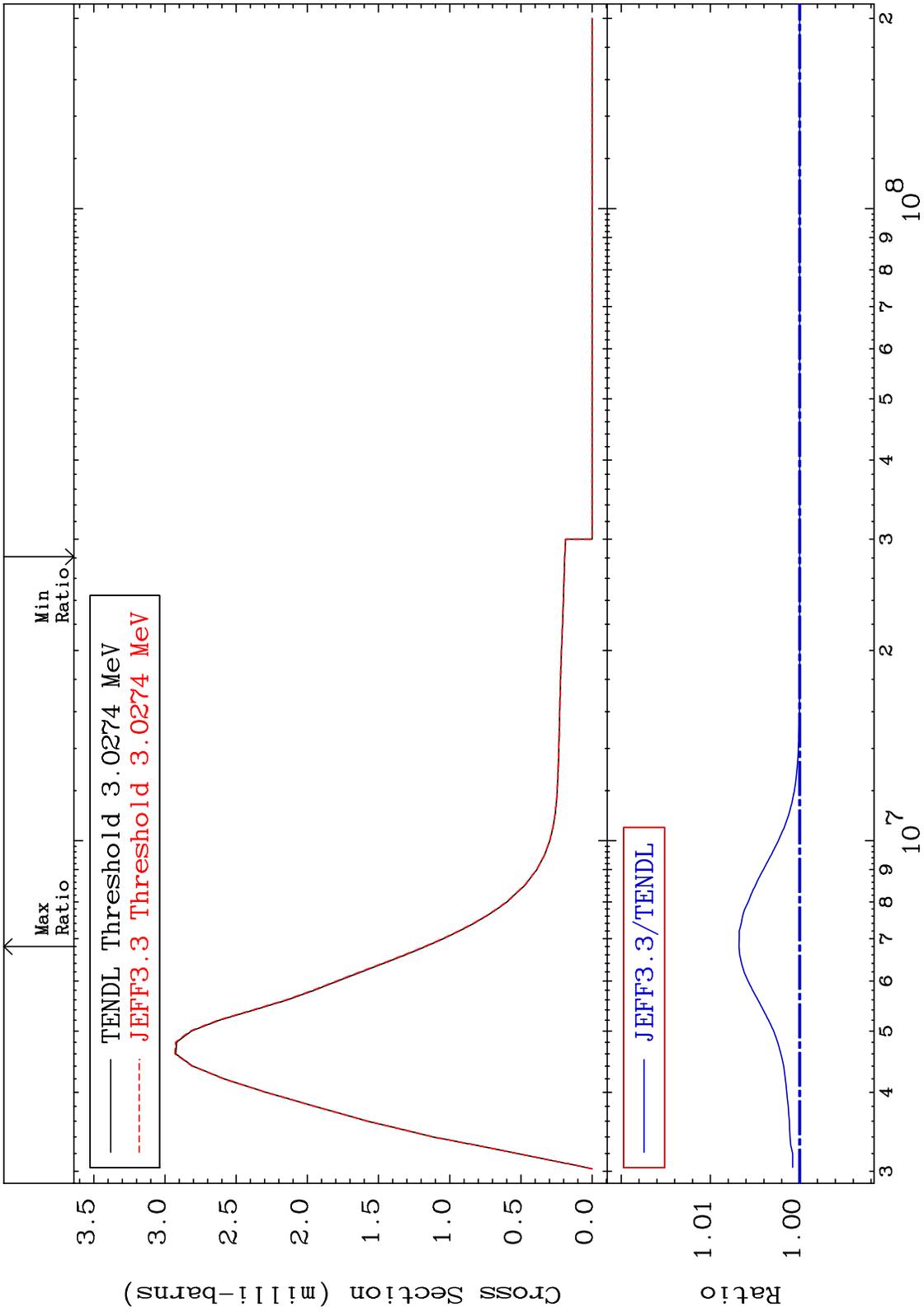
MAT 3425 MT= 74 (n,n') Level Cross Section 0.000 To 52.79 % 34-Se-74



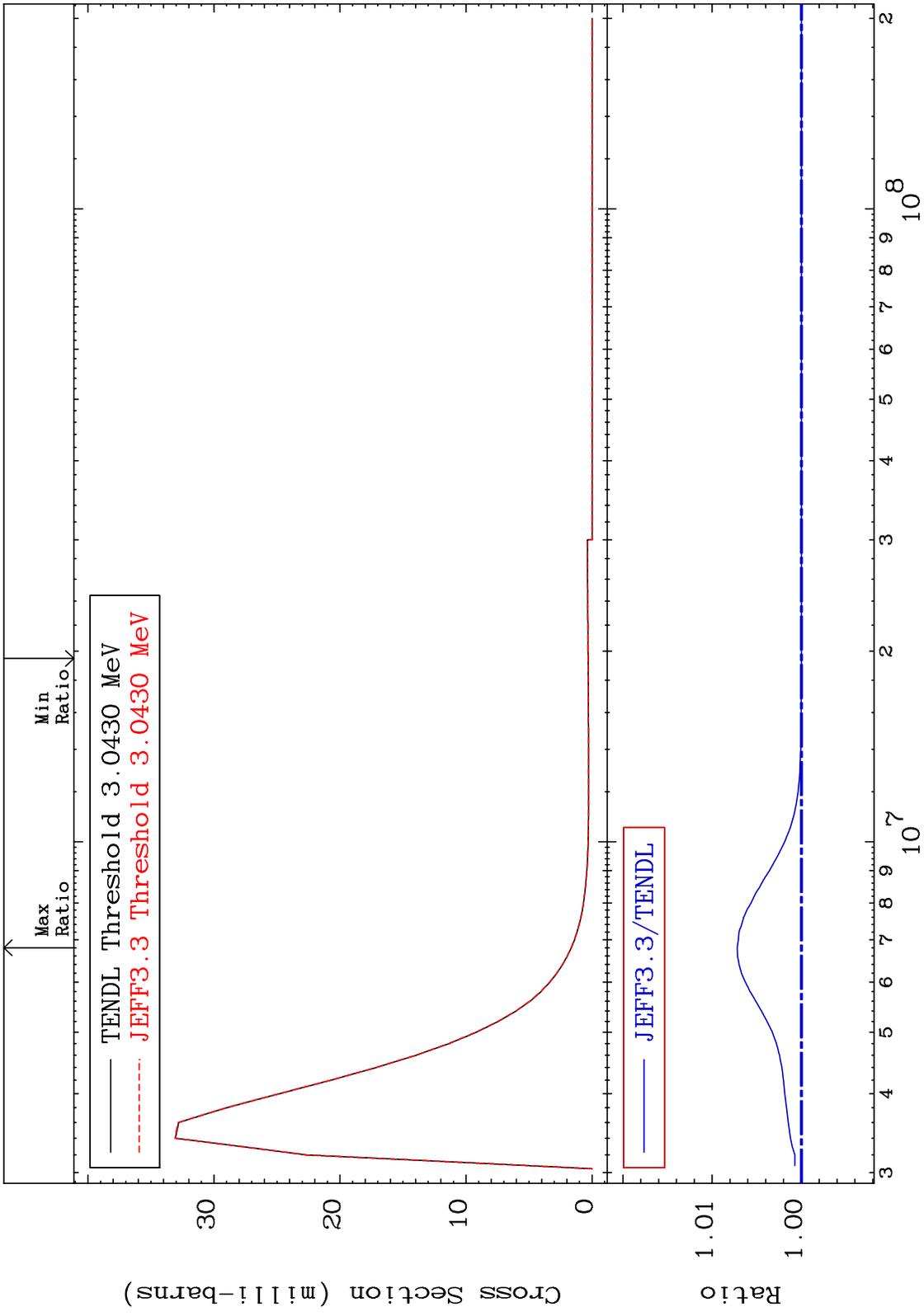
MAT 3425 MT= 75 (n,n') Level Cross Section 34-Se-74 To 0.744 %



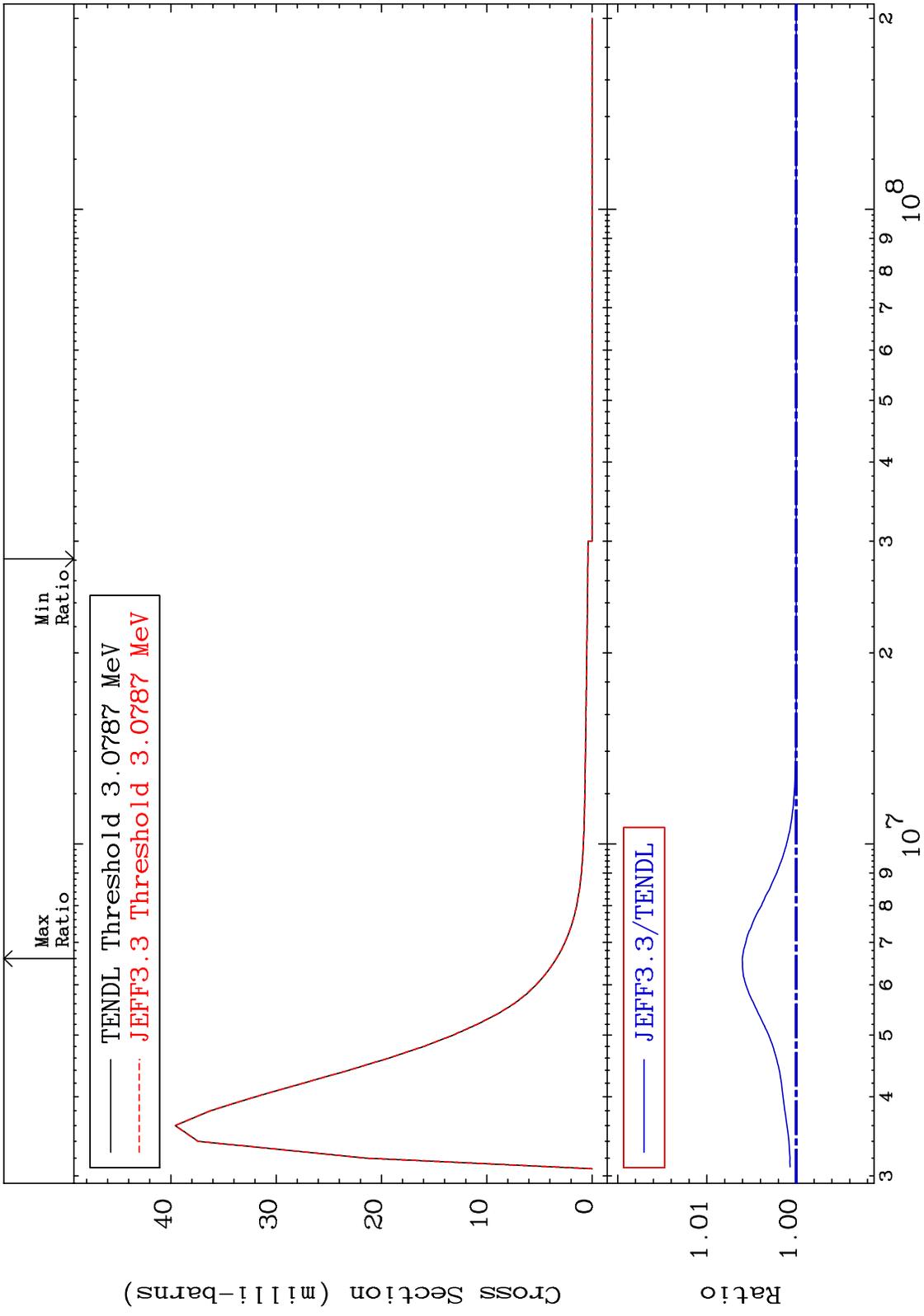
MAT 3425 MT= 76 (n,n') Level Cross Section 34-Se-74 To 0.681 %



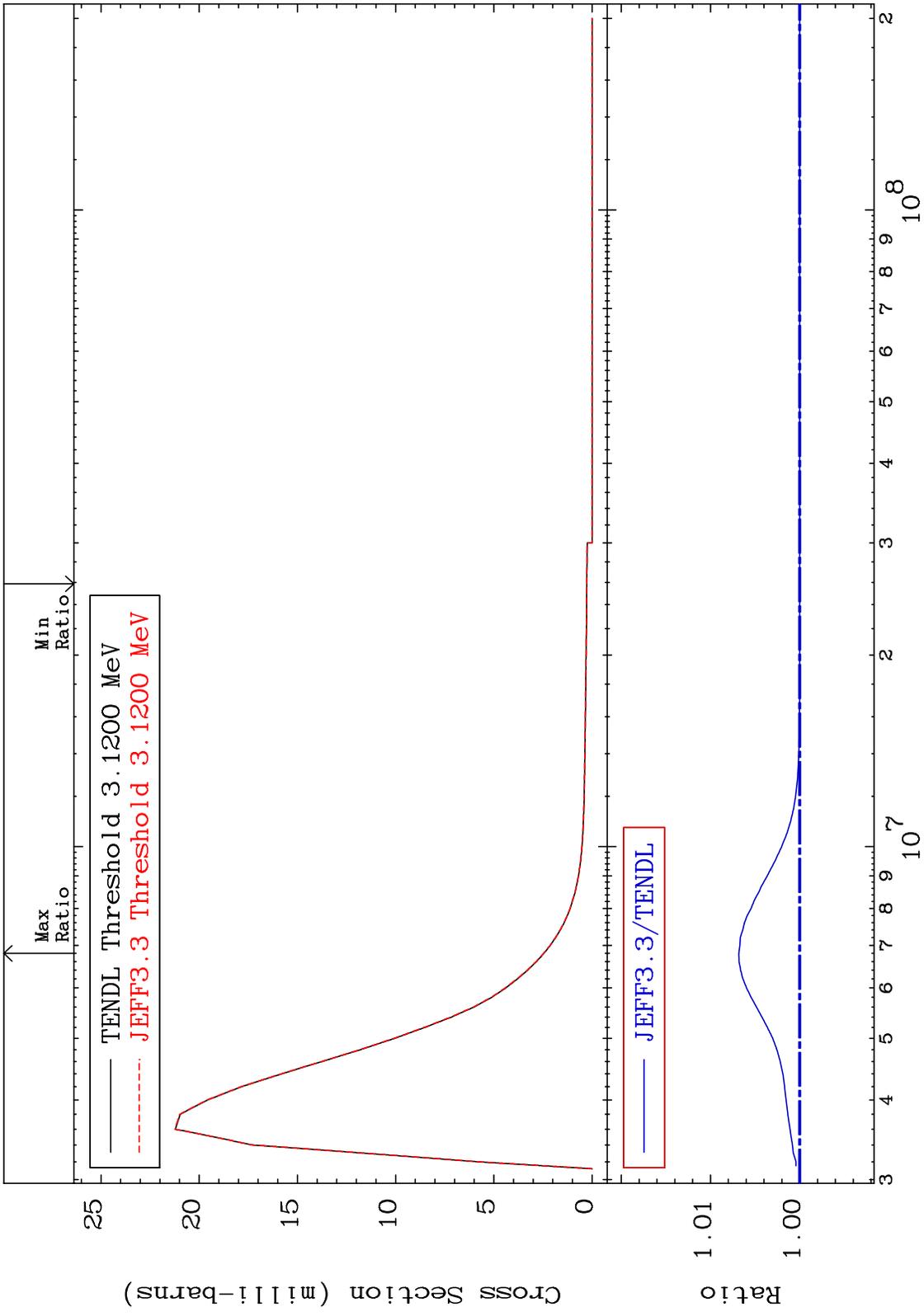
MAT 3425 MT= 77 (n,n') Level Cross Section 0.000 To 0.718 % 34-Se-74



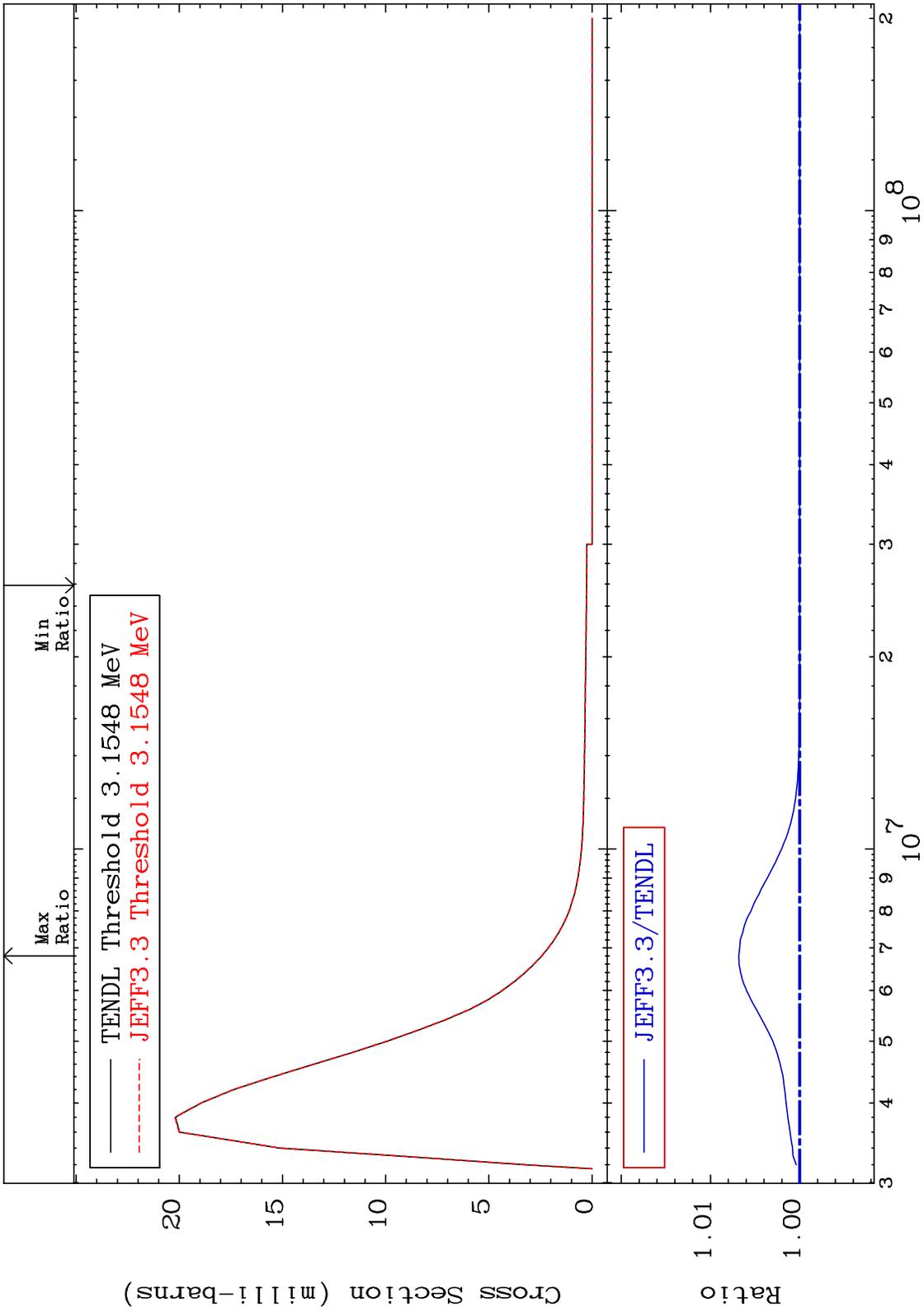
MAT 3425 MT= 78 (n,n') Level Cross Section 34-Se-74 To 0.602 %



MAT 3425 MT= 79 (n,n') Level Cross Section 34-Se-74 To 0.682 %



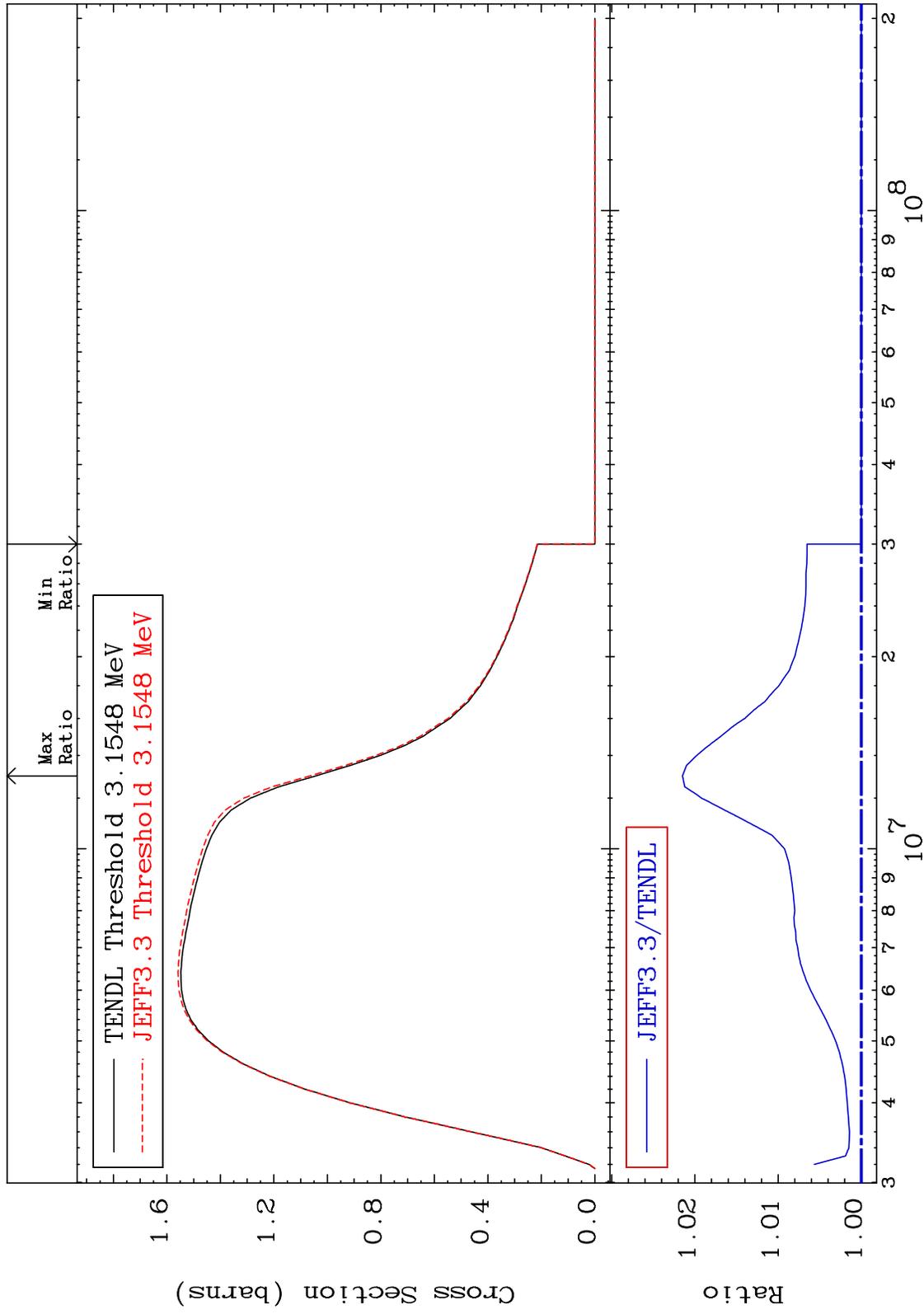
MAT 3425 MT= 80 (n,n') Level Cross Section 34-Se-74 To 0.682 %



MAT 3425

(n, n') Continuum  
Cross Section

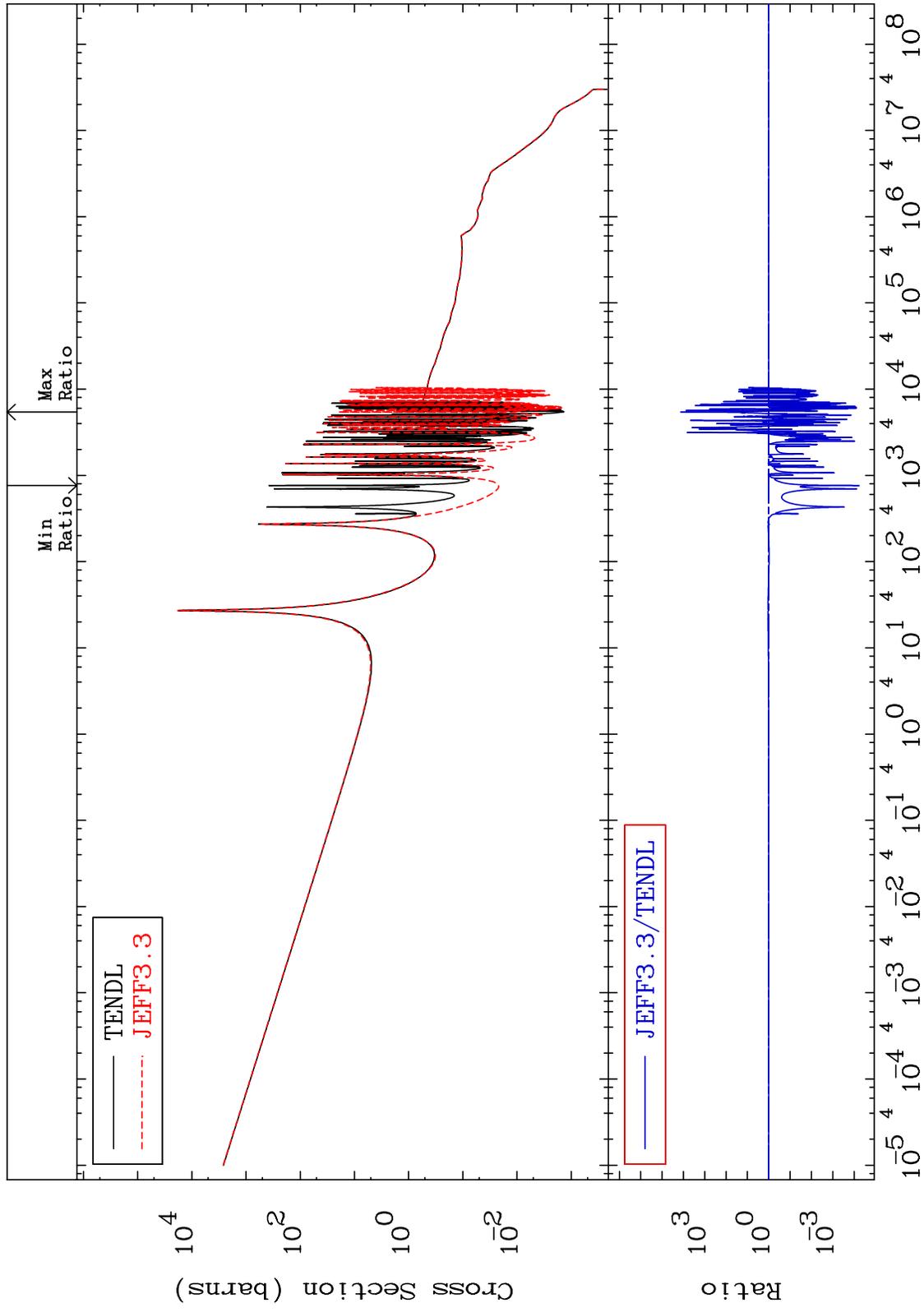
34-Se-74  
0.000 To 2.150 %



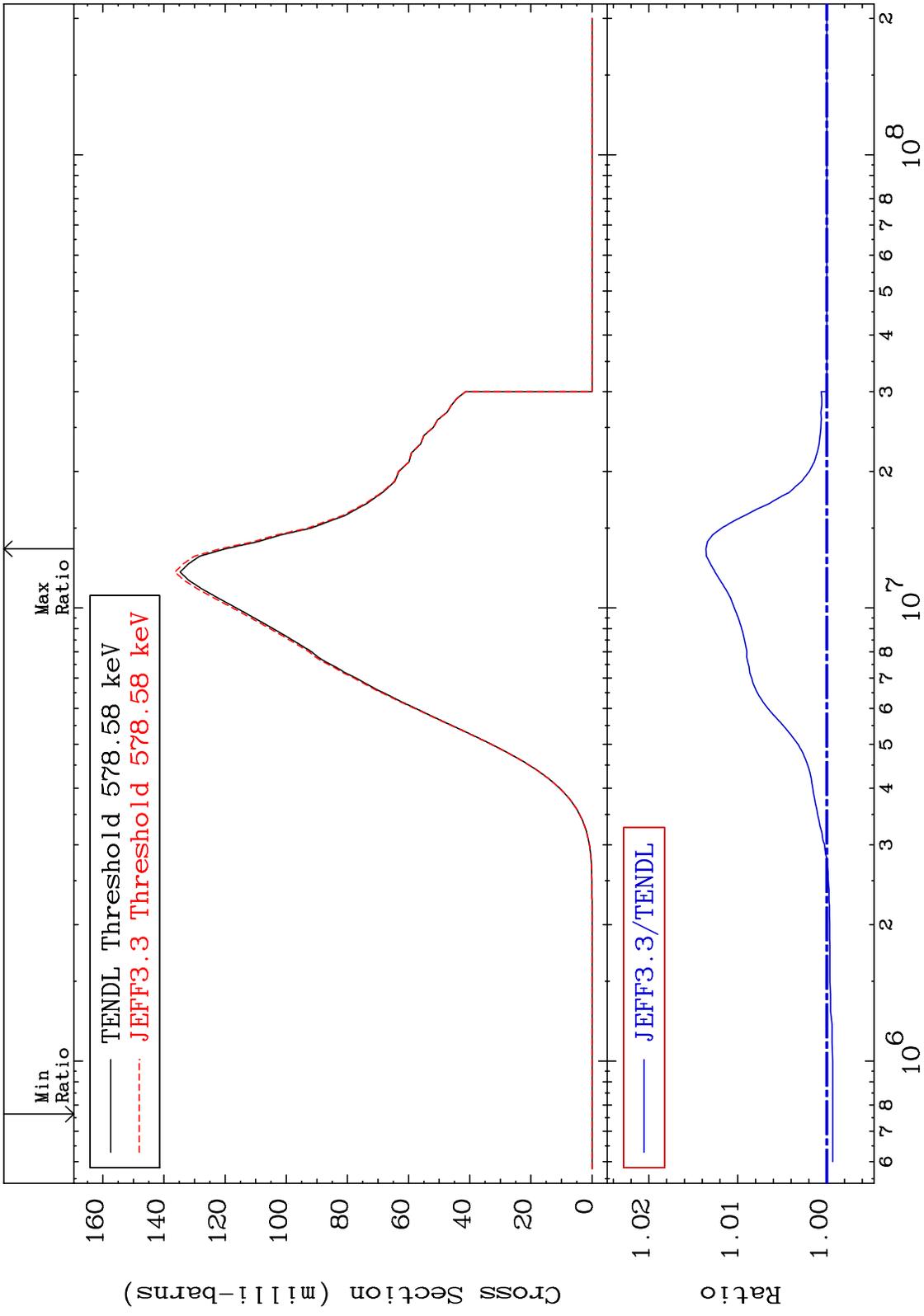
MAT 3425

34-Se-74

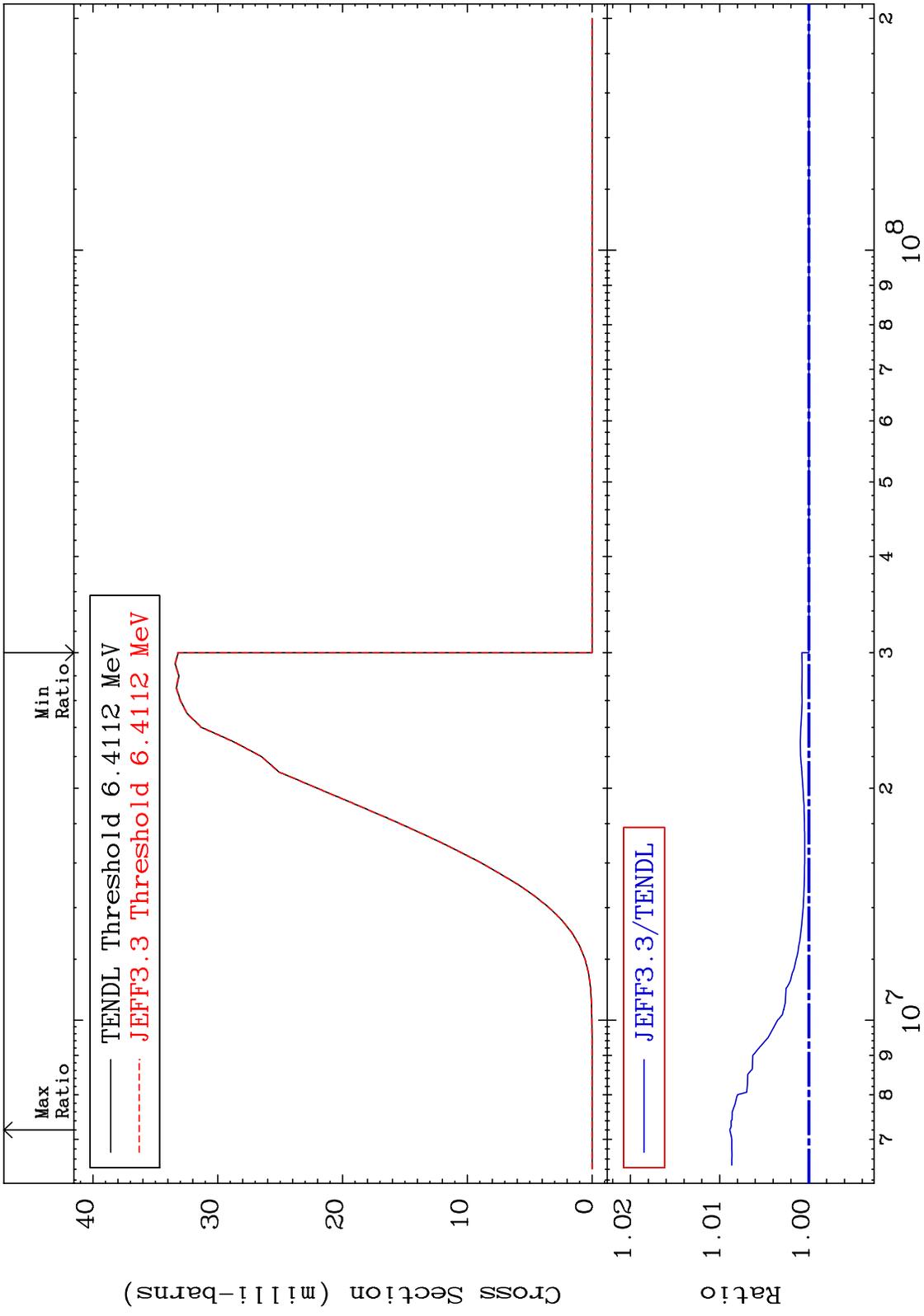
(n,  $\gamma$ )  
Cross Section  
-99.99 To 9999. %



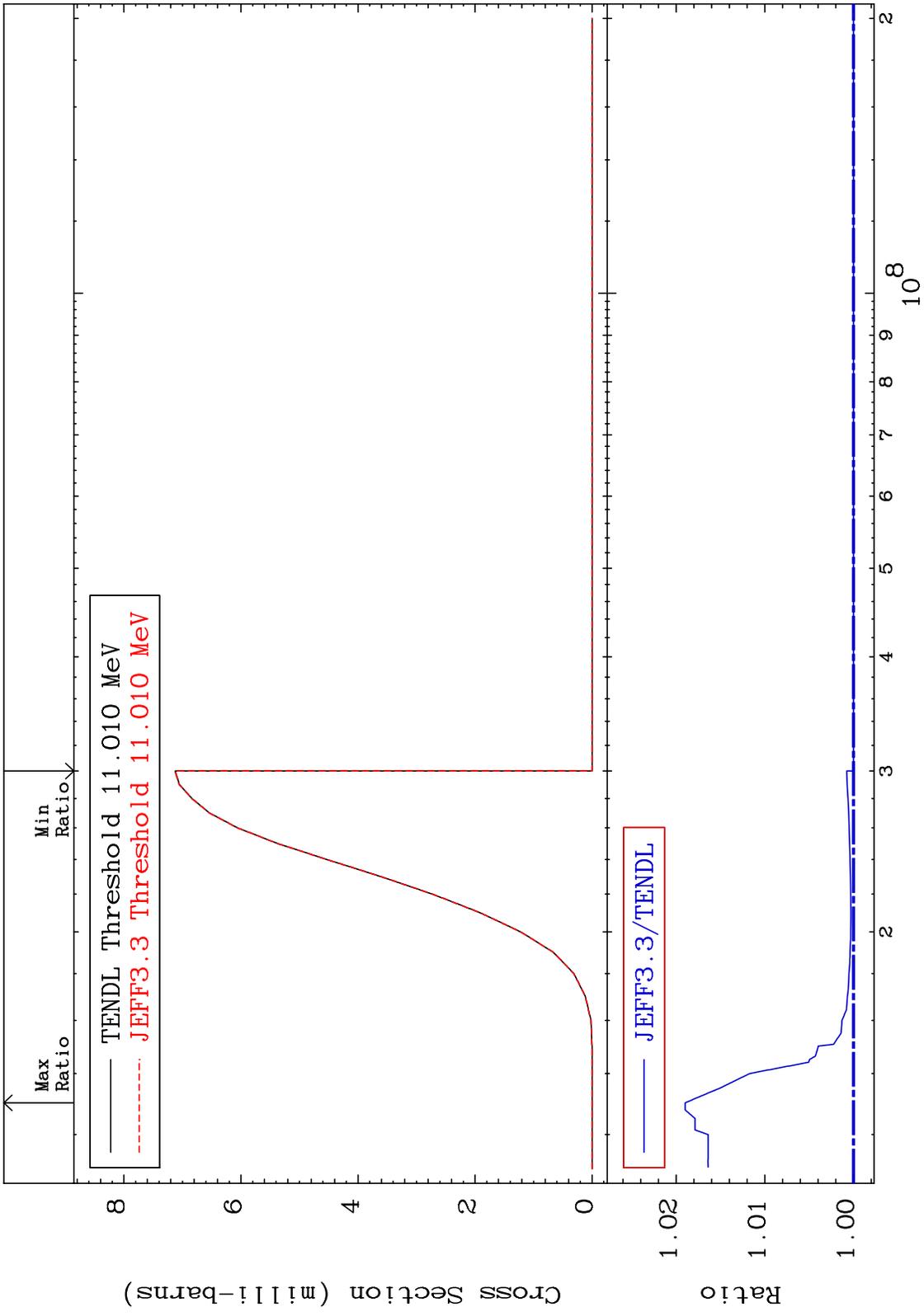
MAT 3425 (n,p) Cross Section 34-Se-74 -0.067 To 1.359 %



MAT 3425 (n,d) Cross Section 34-Se-74 To 0.887 %

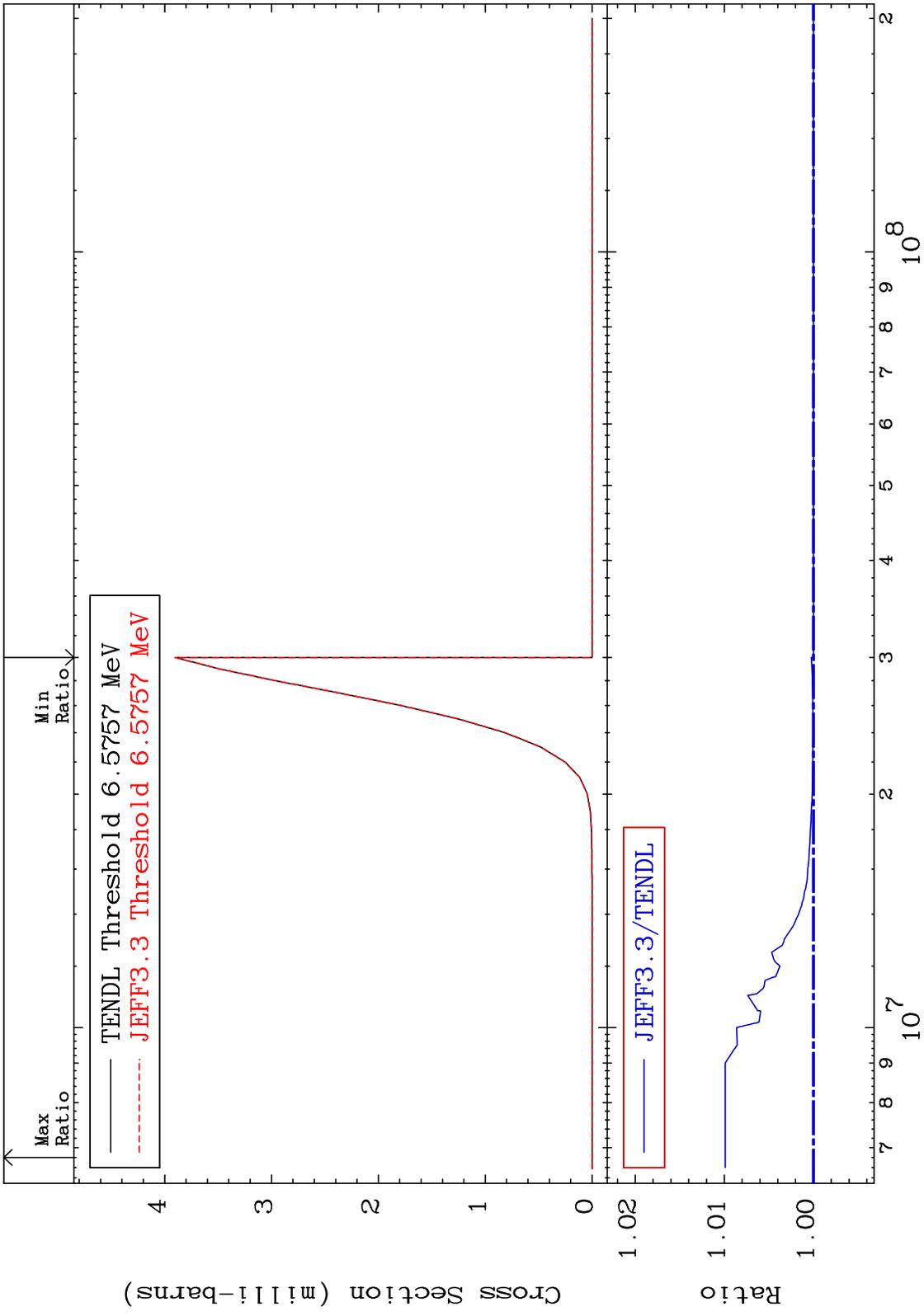


MAT 3425 (n,t) Cross Section 34-Se-74 To 1.899 %



34-Se-74

MAT 3425 (n, He-3) Cross Section 34-Se-74 To 0.991 %



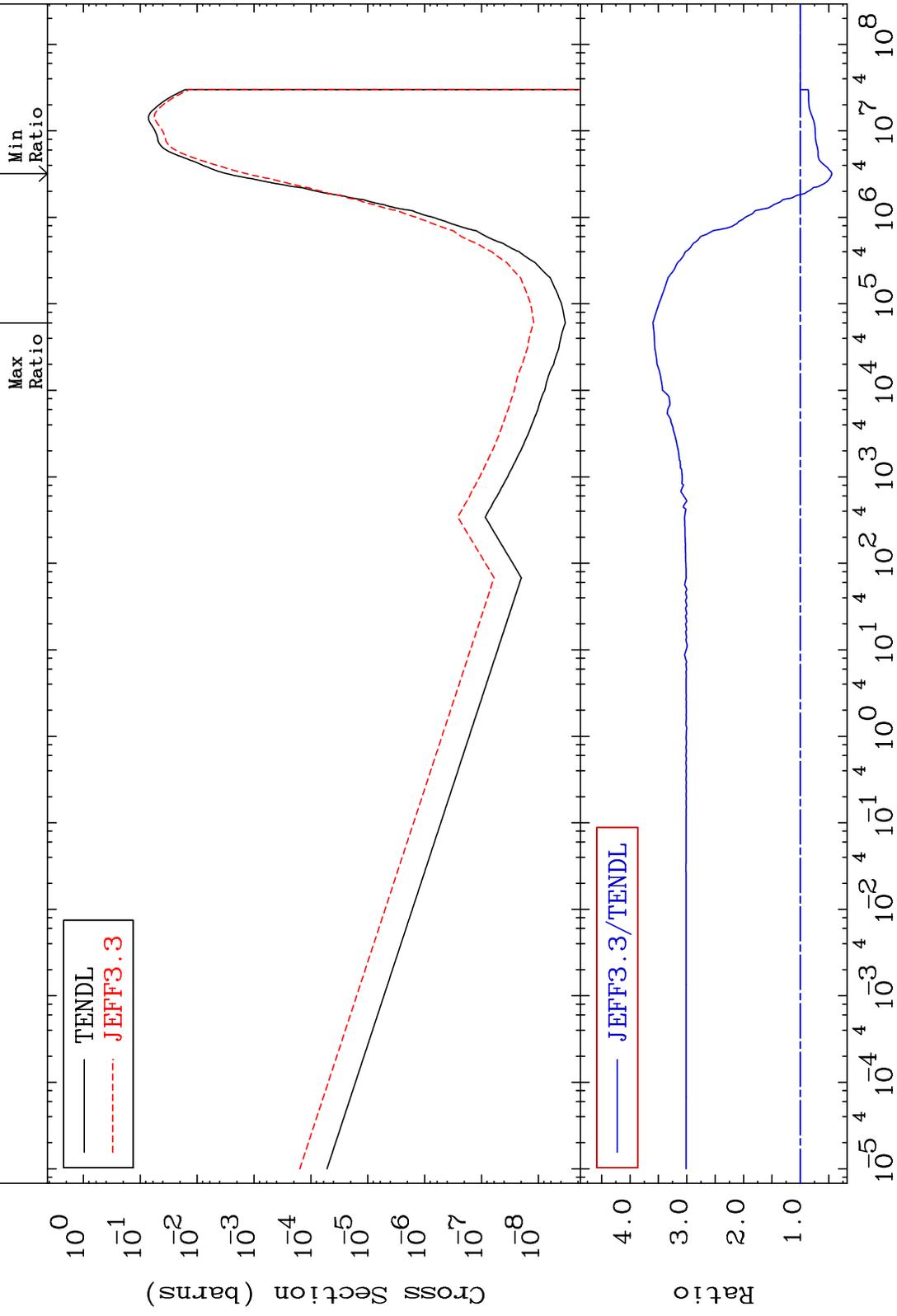
MAT 3425

(n,  $\alpha$ )

<sup>34</sup>Se-74

Cross Section

-55.61 To 259.7 %



MAT 3425

(n,2α)

<sup>34</sup>Se-74

-53.75 To 1836. %

Cross Section

Max Ratio  
Min Ratio

TENDL Threshold 1.1266 MeV  
JEFF3.3 Threshold 1.1268 MeV

Cross Section (milli-barns)

2.0

1.5

1.0

0.5

0.0

10<sup>1</sup>

10<sup>0</sup>

JEFF3.3/TENDL

Ratio

4

2

3

4

5

6

7

8

2

10<sup>8</sup>

56

Incident Energy (eV)

<sup>34</sup>Se-74

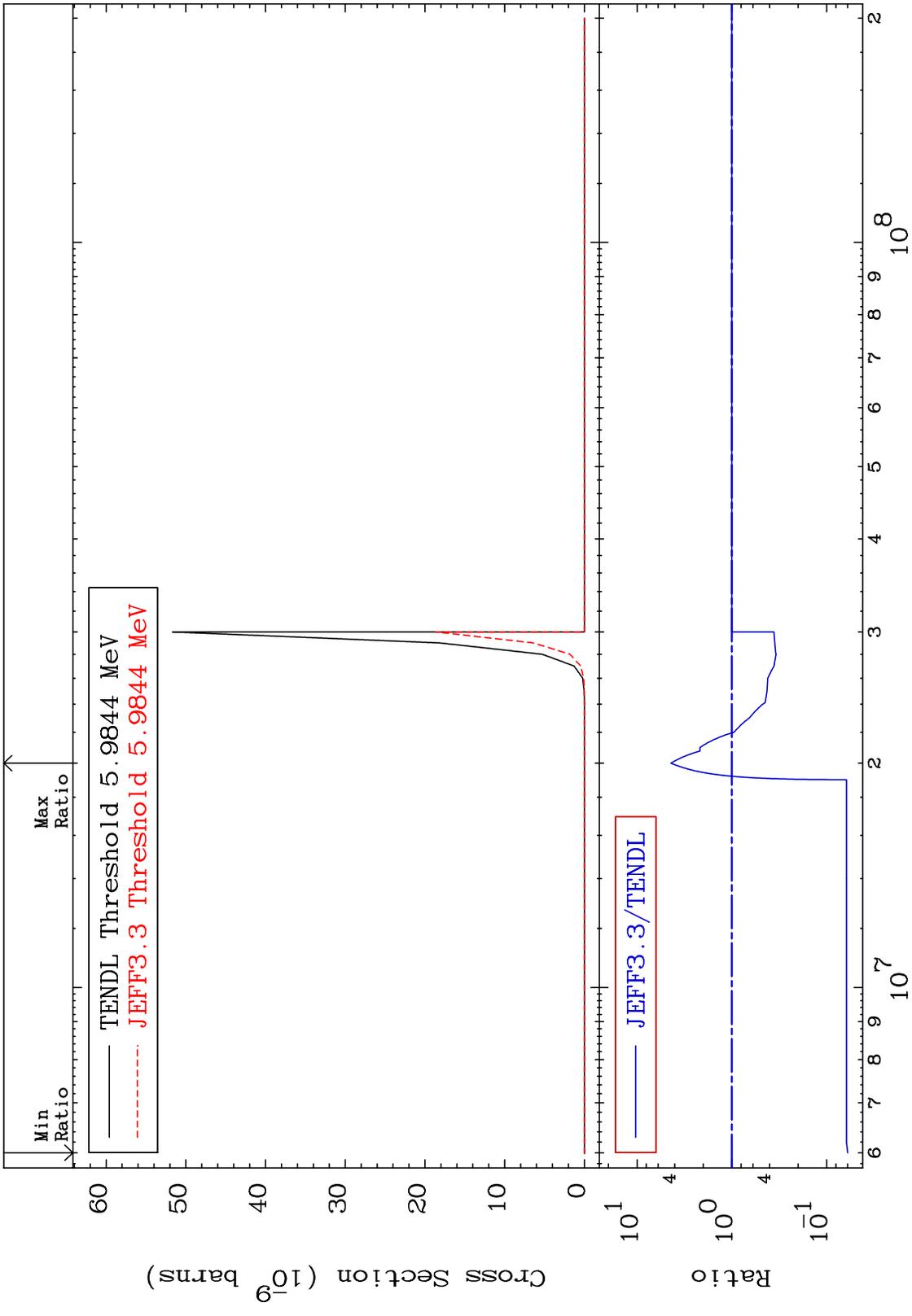
MAT 3425

(n,3α)

34-Se-74

-93.99 To 339.2 %

Cross Section

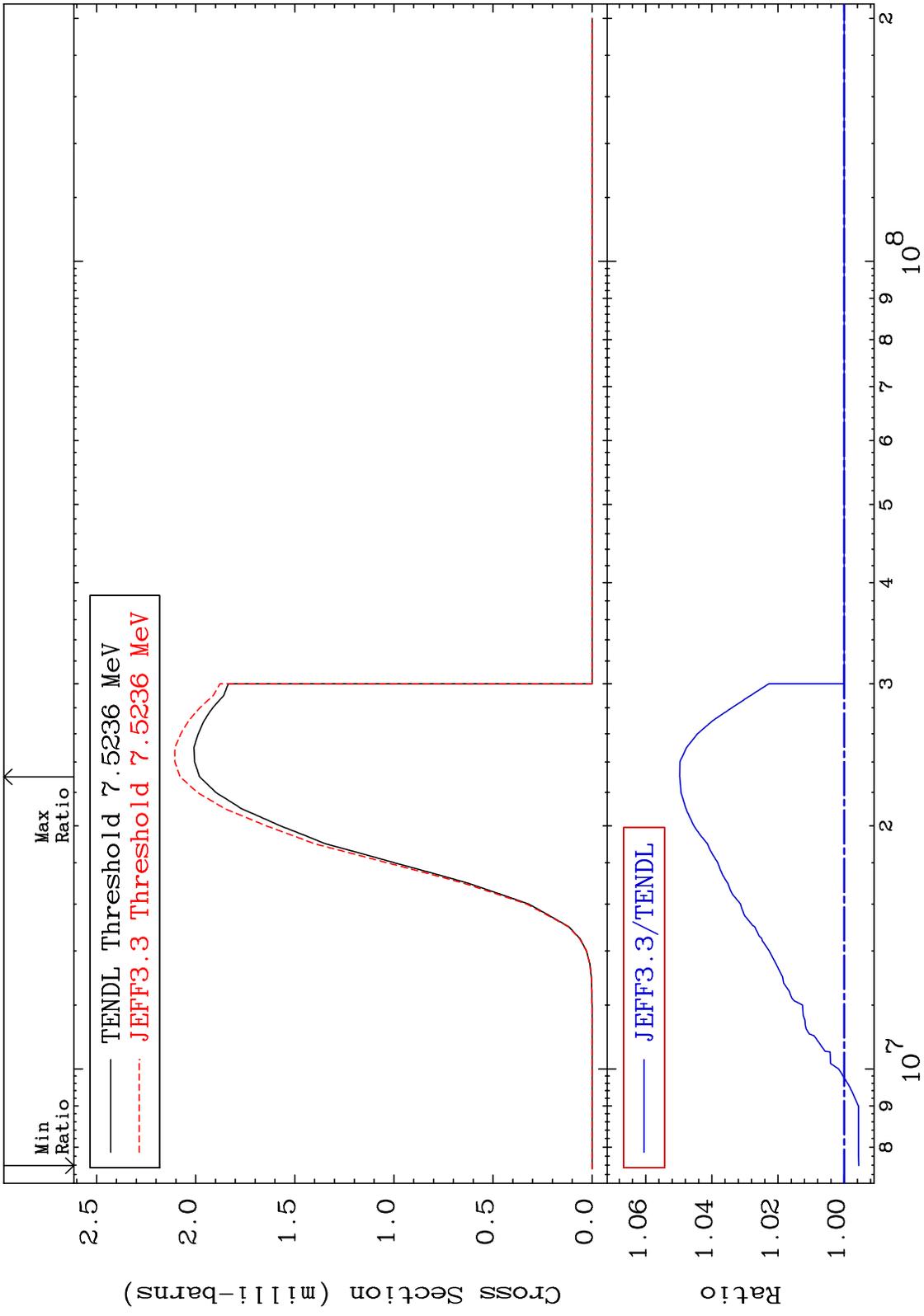


34-Se-74

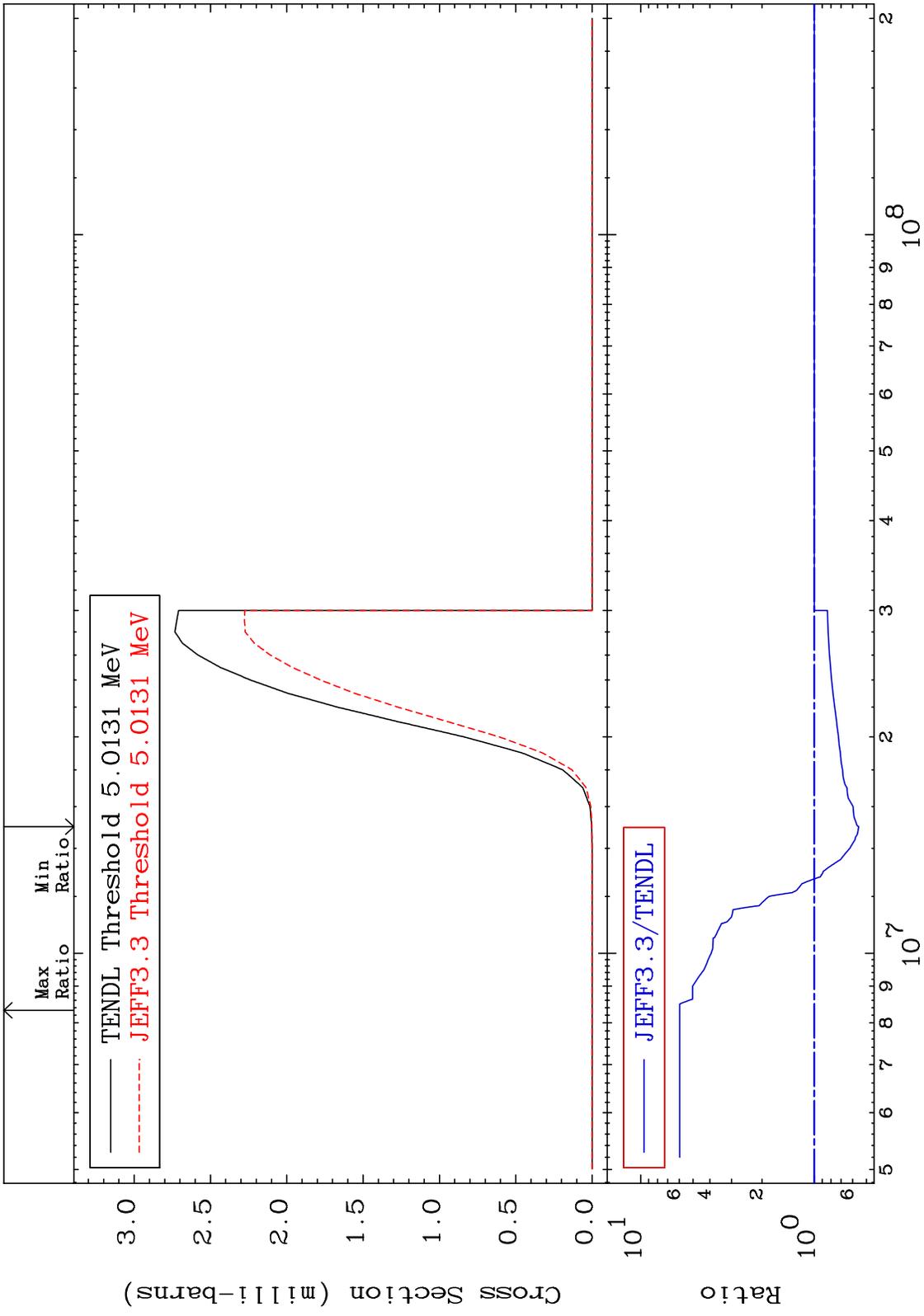
Incident Energy (eV)

57

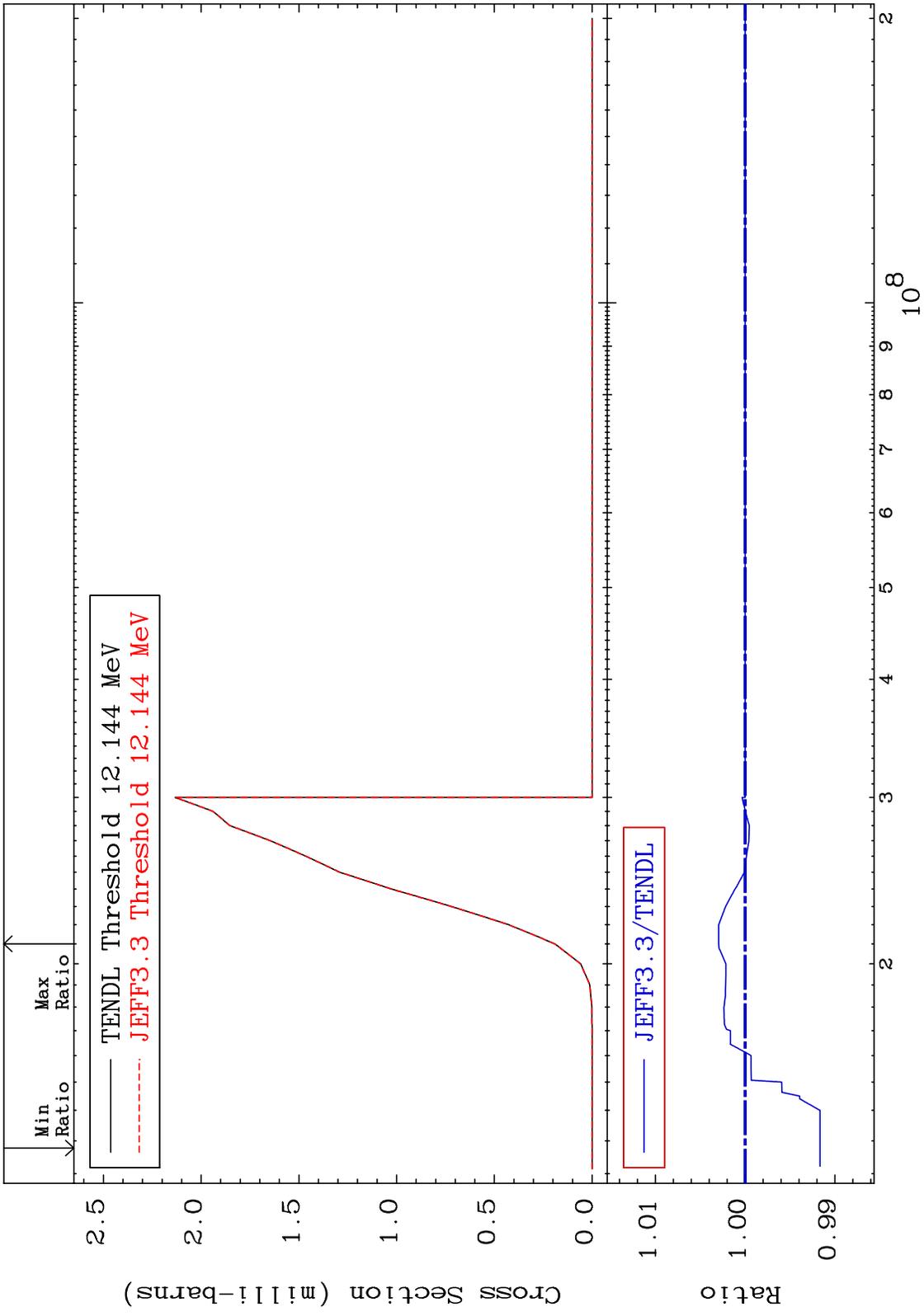
MAT 3425  $(n,2p)$  Cross Section  $^{34}\text{Se-74}$   
 -0.443 To 4.971 %



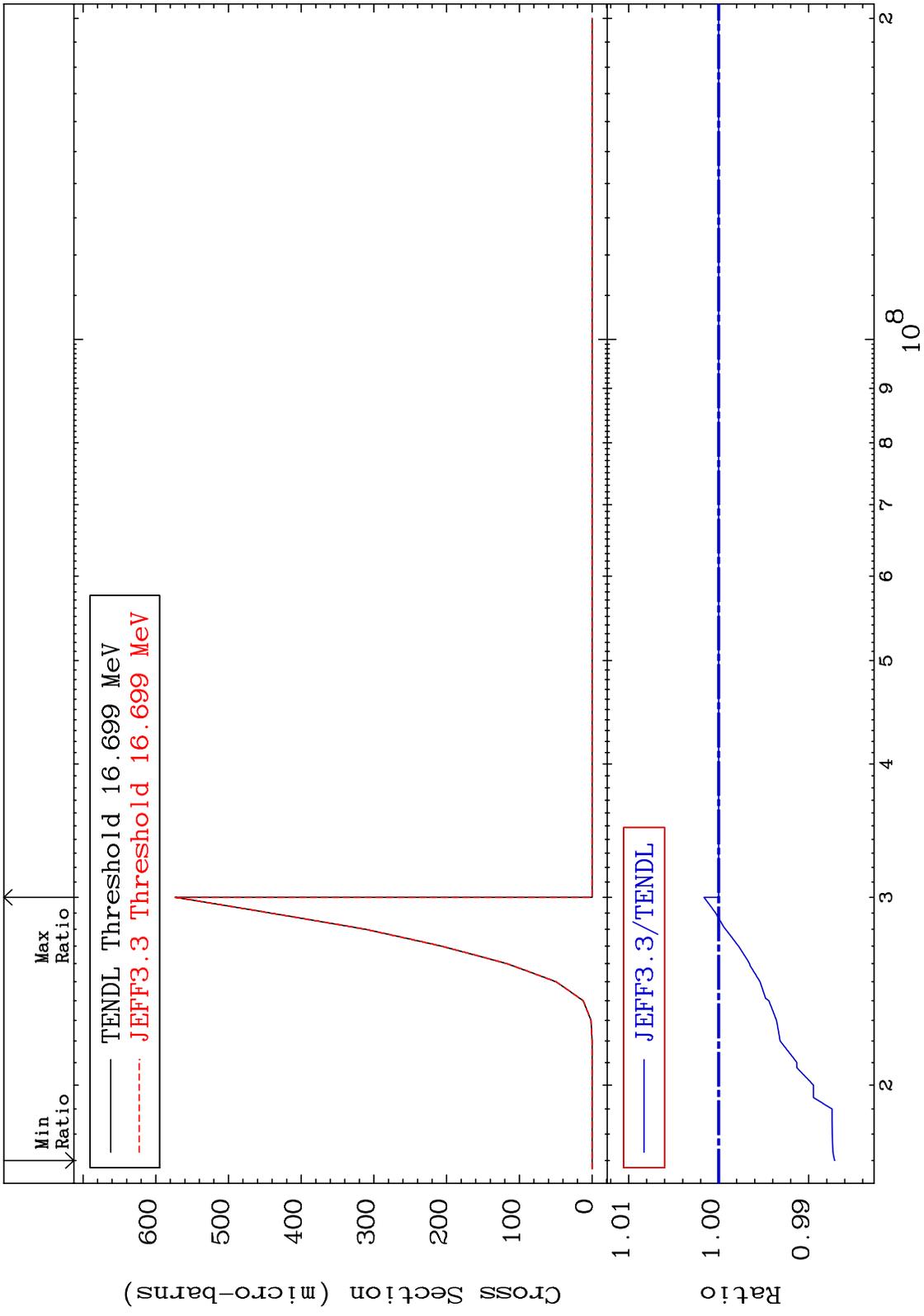
MAT 3425  $(n,p) \alpha$   $^{34}\text{Se-74}$   
 Cross Section -44.65 To 496.0 %



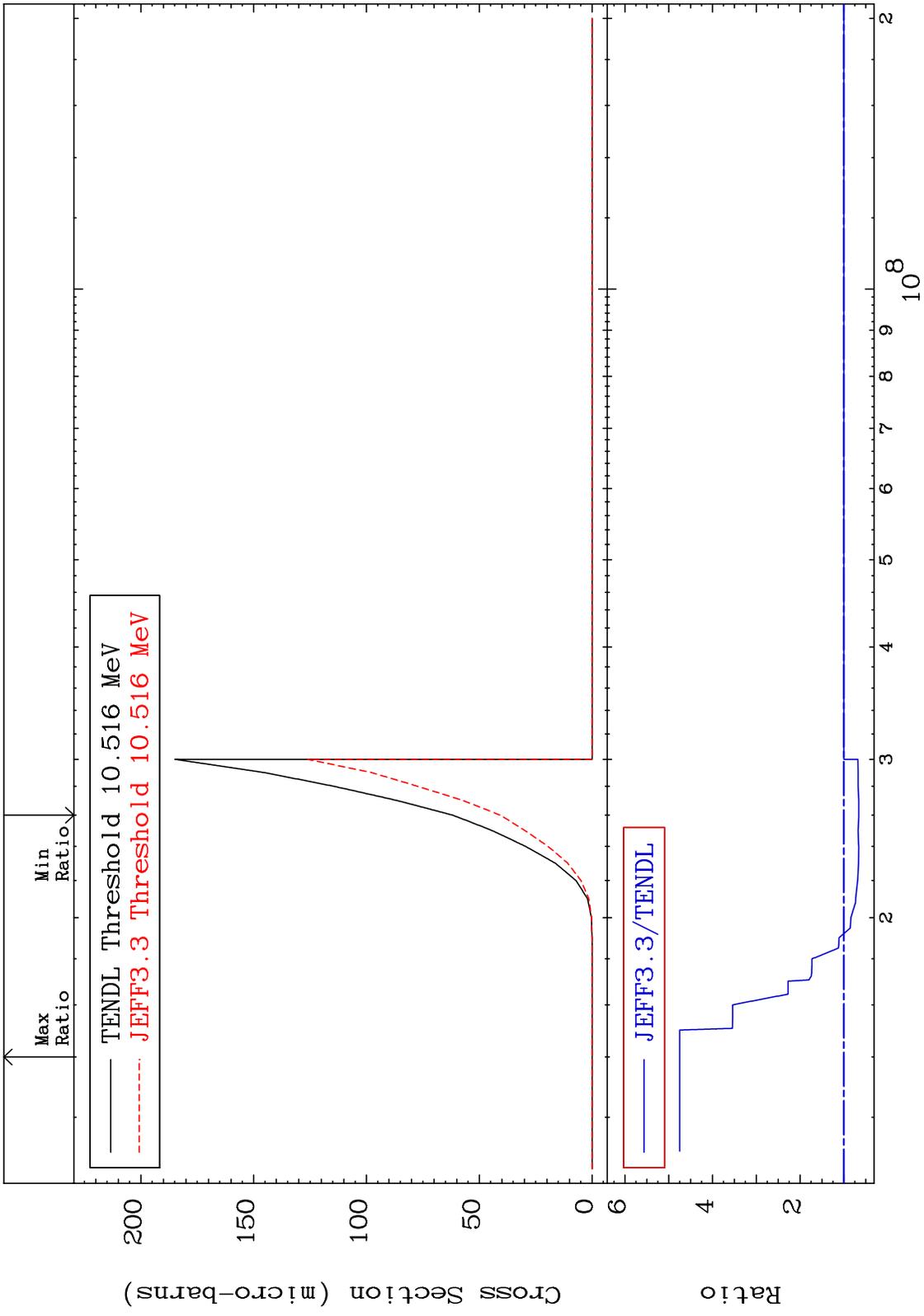
MAT 3425 (n,p) d 34-Se-74  
 Cross Section -0.833 To 0.297 %



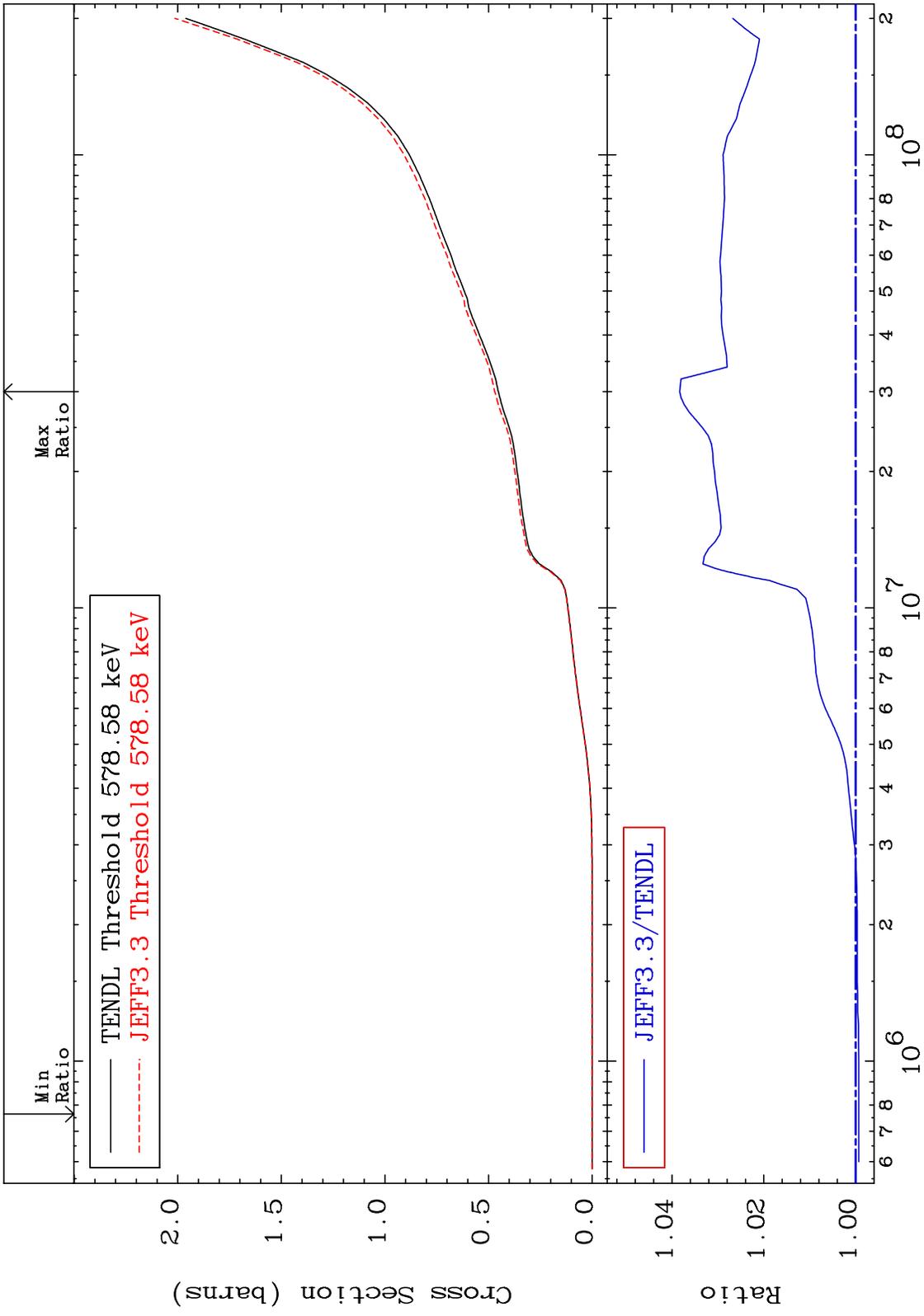
MAT 3425 (n,p) t 34-Se-74  
 Cross Section -1.287 To 0.163 %



MAT 3425  $(n, d) \alpha$   $^{34}\text{Se-74}$   
 Cross Section  $-34.13$  To  $374.7$  %



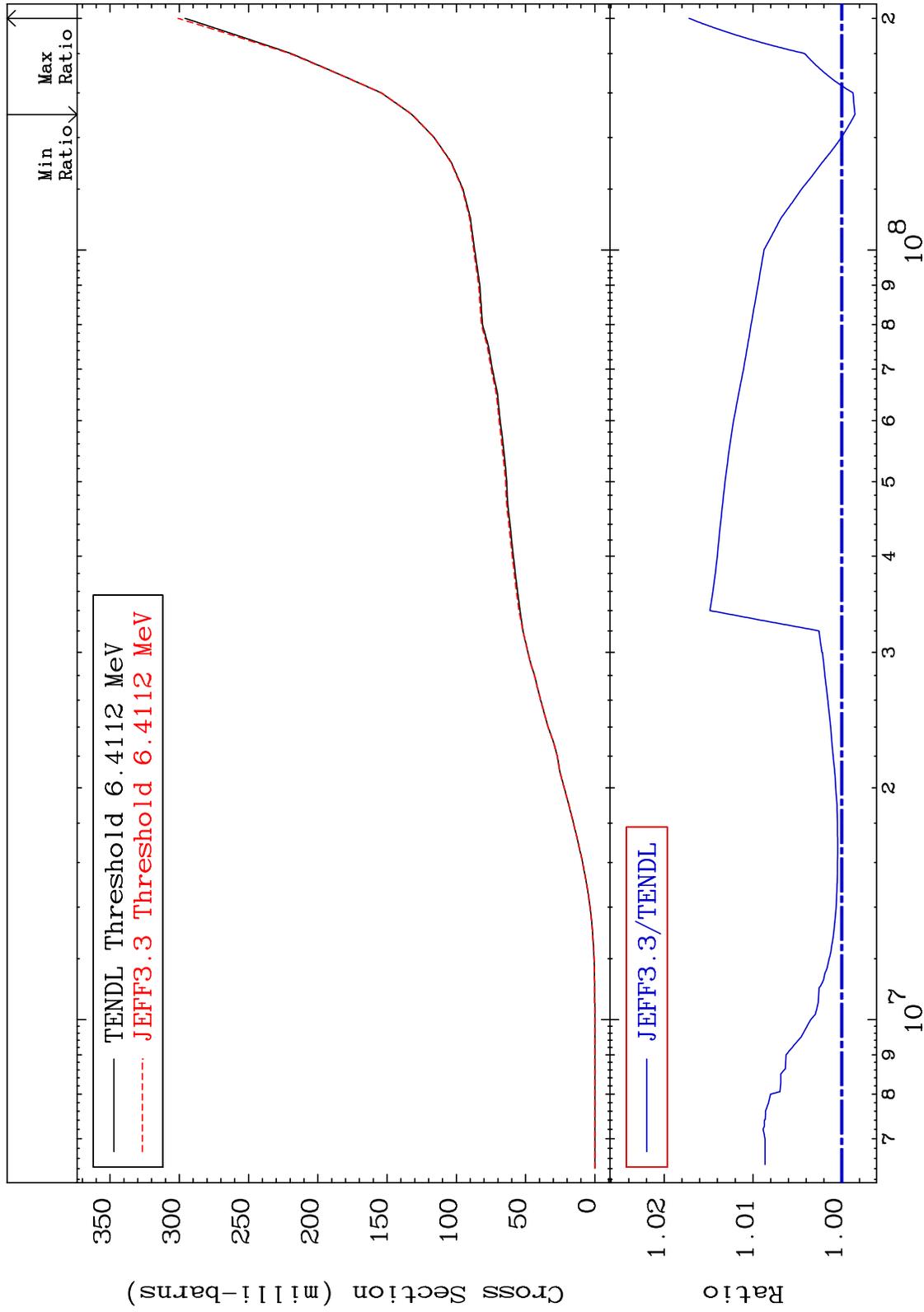
MAT 3425      Hydrogen Production Cross Section       $^{34}\text{Se-74}$        $-0.067$  To  $3.831$  %



MAT 3425

Deuterium Production  
Cross Section

34-Se-74  
-0.148 To 1.722 %

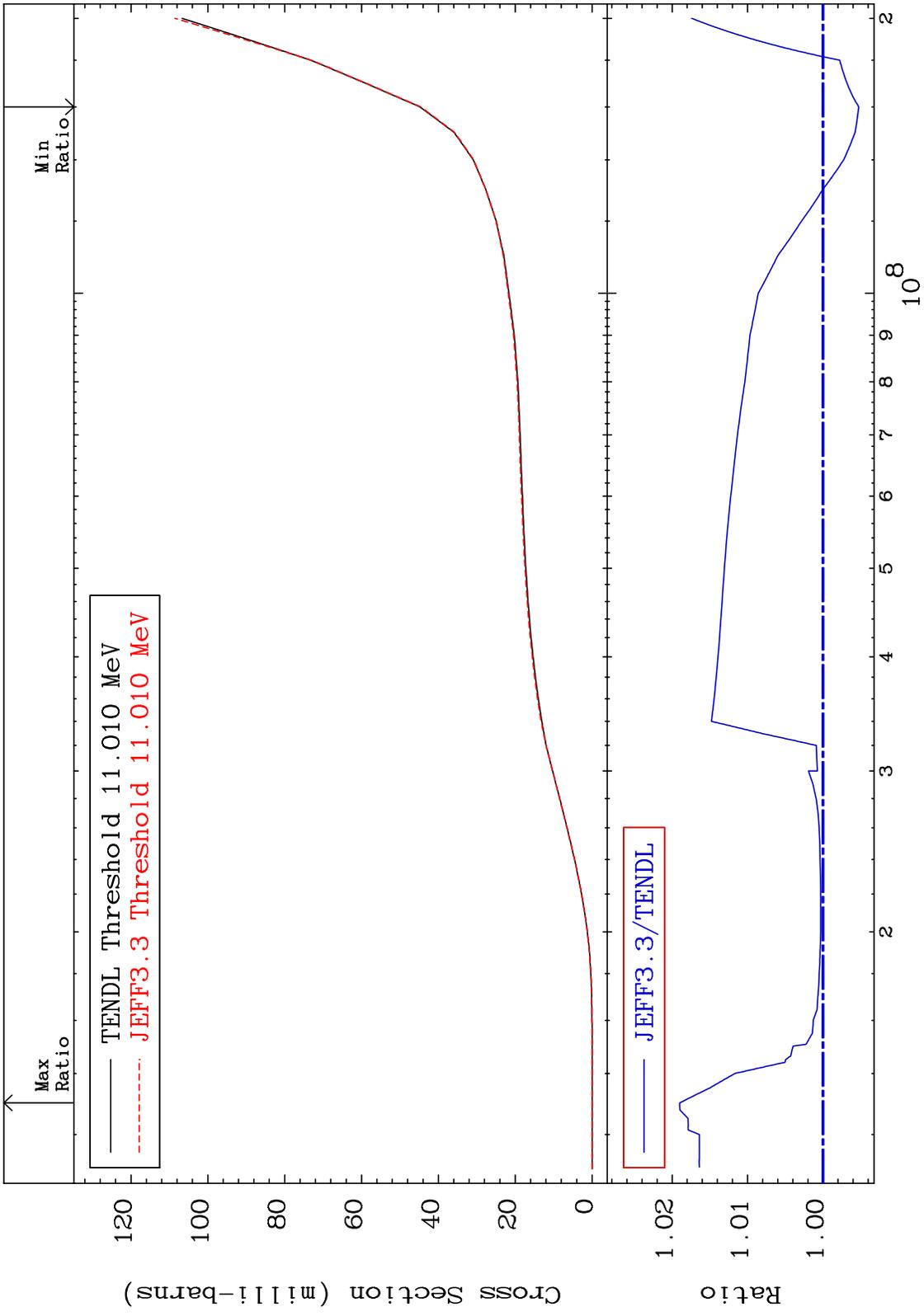


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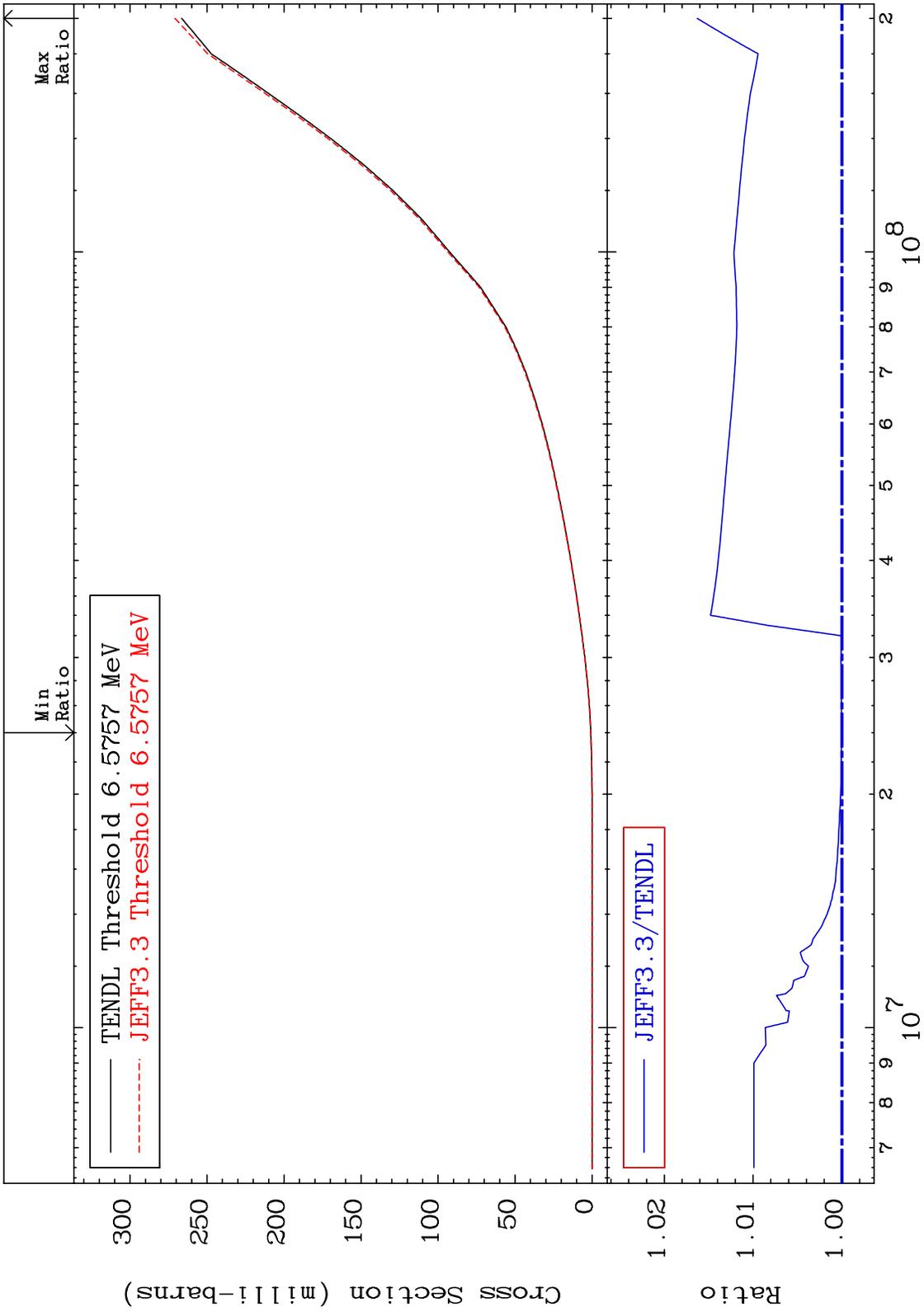
Incident Energy (eV)

34-Se-74

MAT 3425 Tritium Production Cross Section 34-Se-74  
 -0.475 To 1.899 %



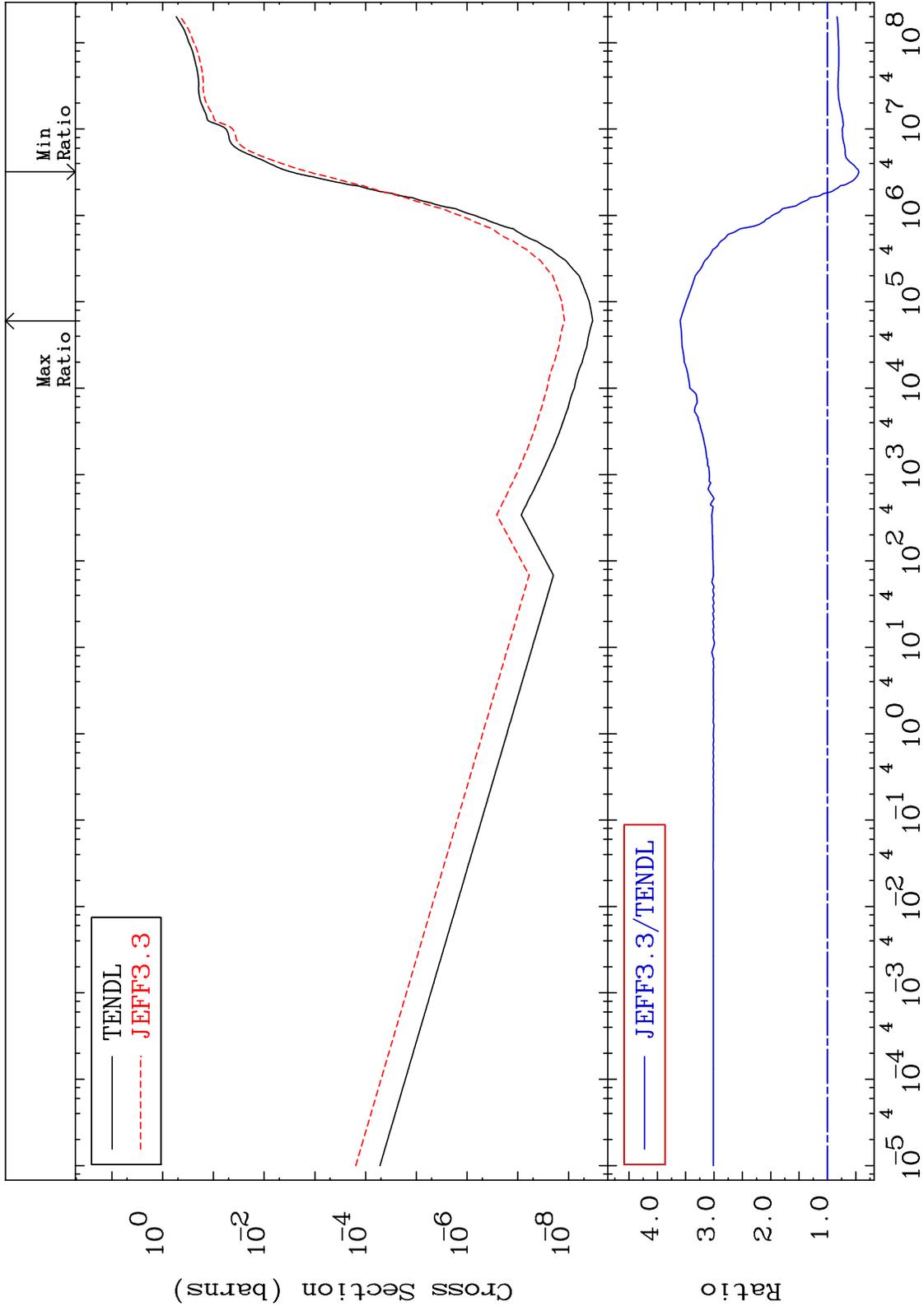
MAT 3425 He-3 Production Cross Section 34-Se-74 To 1.630 %



MAT 3425

He-4 Production  
Cross Section

34-Se-74  
-55.61 To 259.7 %

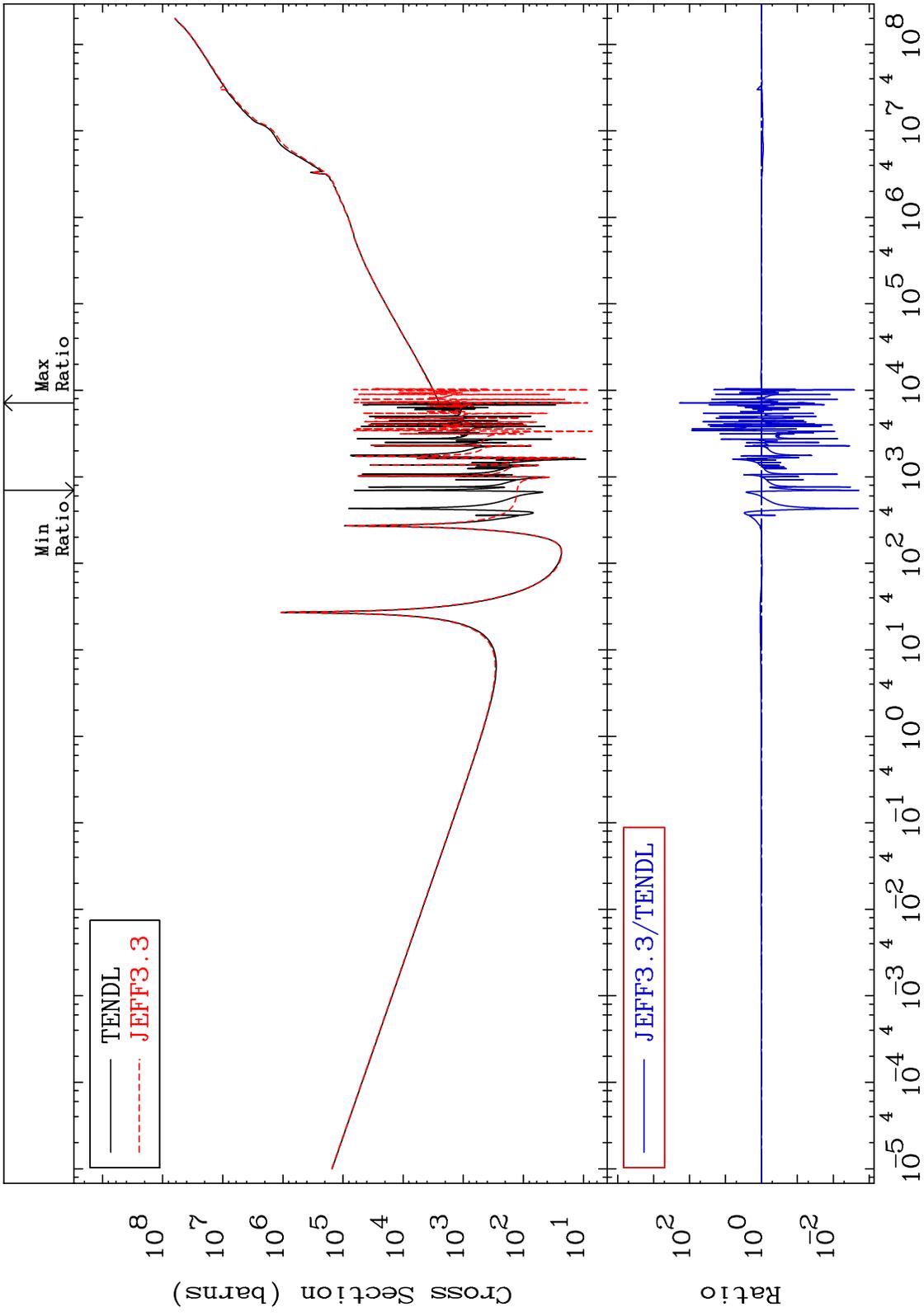


67

Incident Energy (eV)

34-Se-74

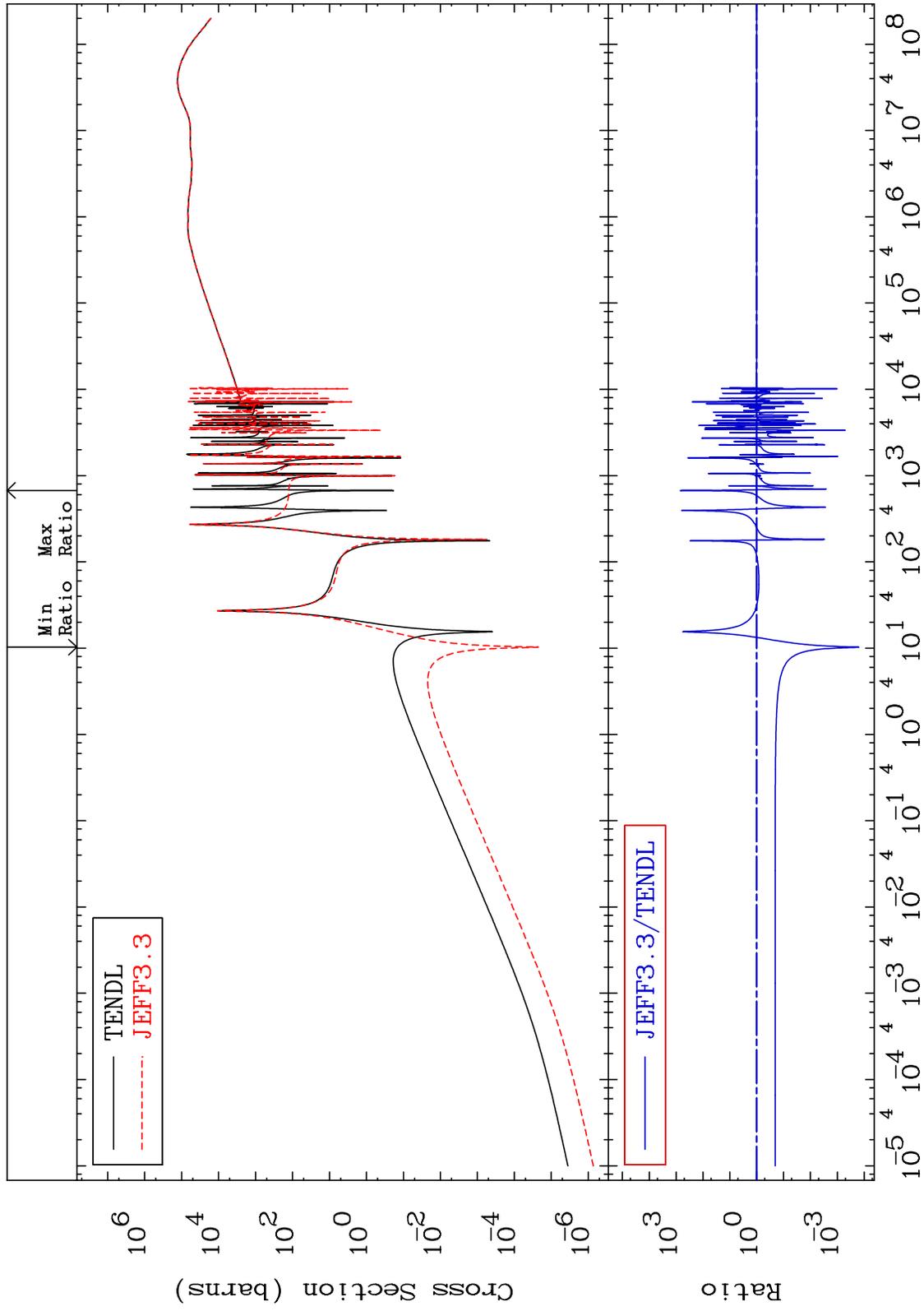
MAT 3425 Kerma total (eV-barns) 34-Se-74  
 Cross Section -99.81 To 9999. %



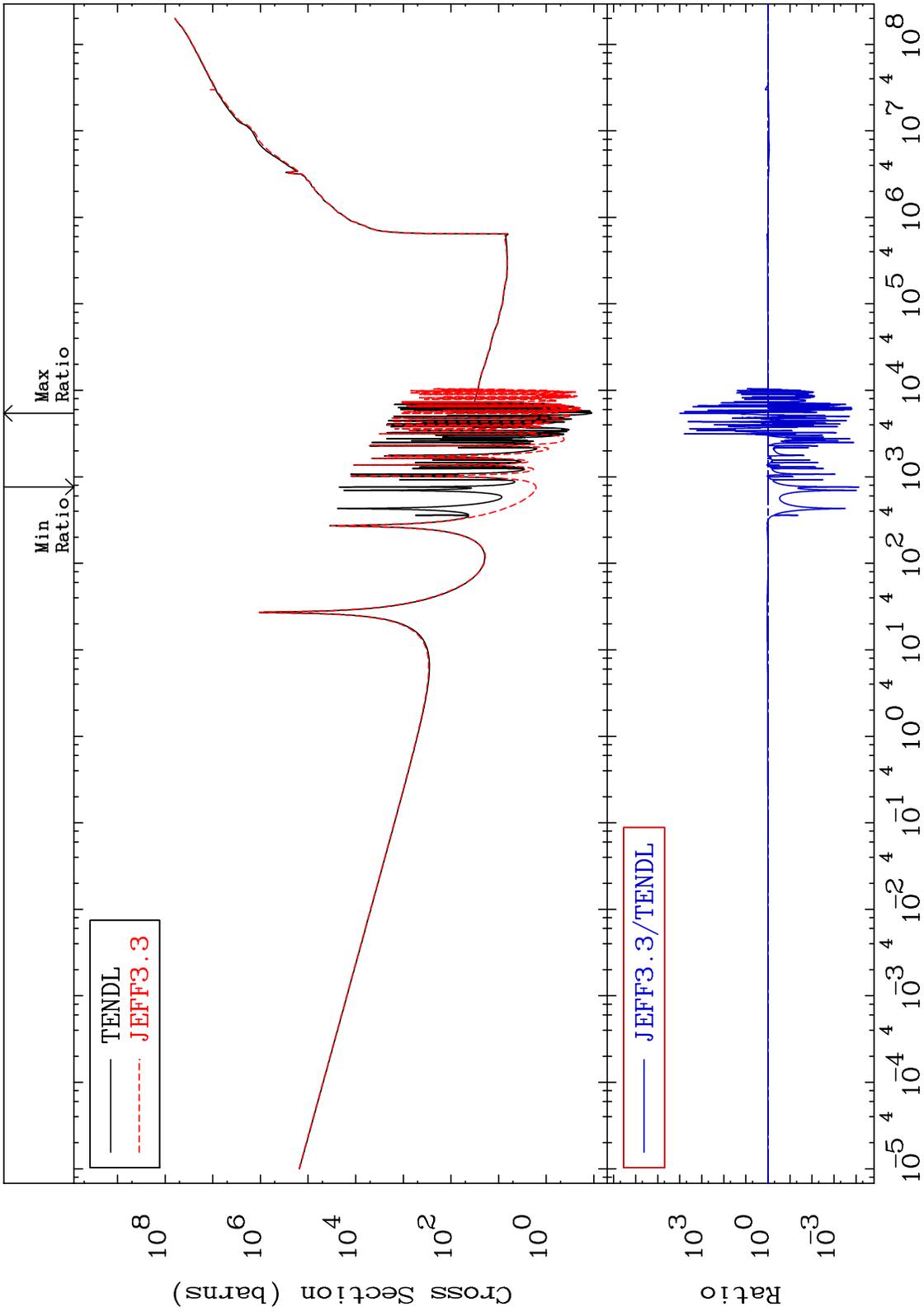
MAT 3425

Kerma elastic  
Cross Section

34-Se-74  
-99.98 To 9999. %

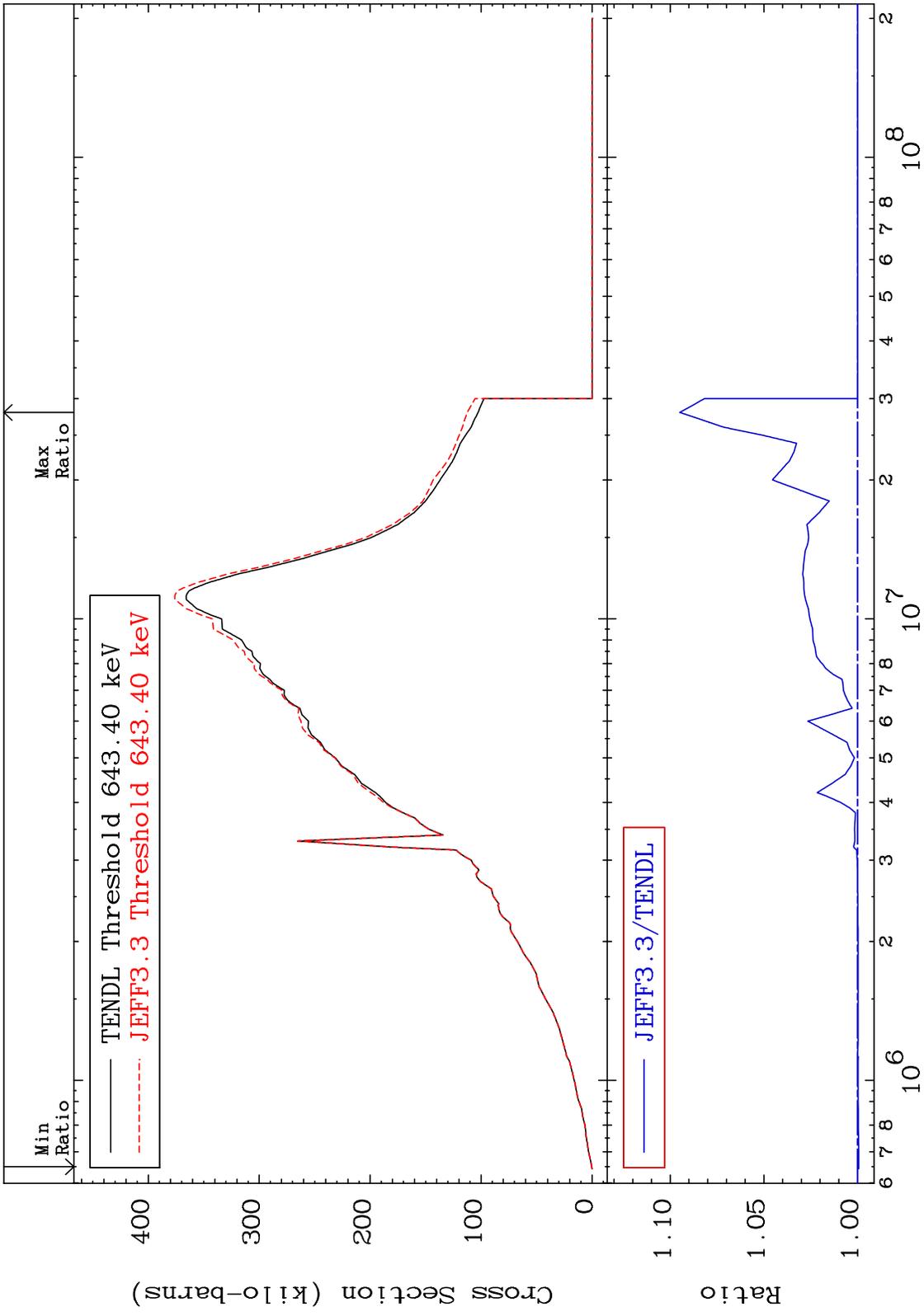


MAT 3425 Kerma non-elastic (all but mt2) Cross Section 34-Se-74 -99.99 To 9999. %



70 34-Se-74

MAT 3425 Kerma inelastic (mt51-91) 34-Se-74  
 -0.066 To 9.492 %



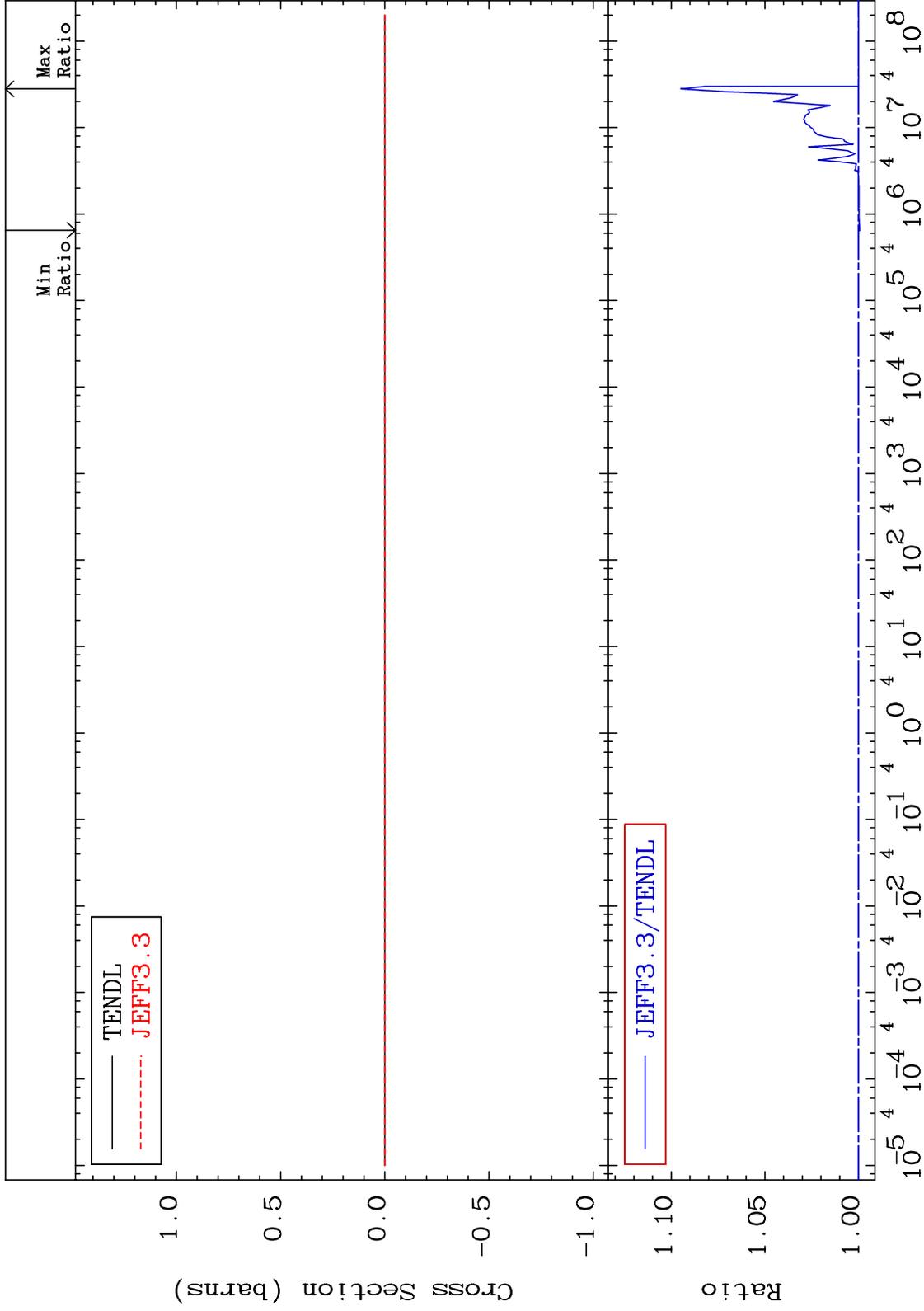
— TENDL Threshold 643.40 keV  
 - - - JEFF3.3 Threshold 643.40 keV

— JEFF3.3/TENDL

MAT 3425

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

34-Se-74  
-0.066 To 9.492 %



72

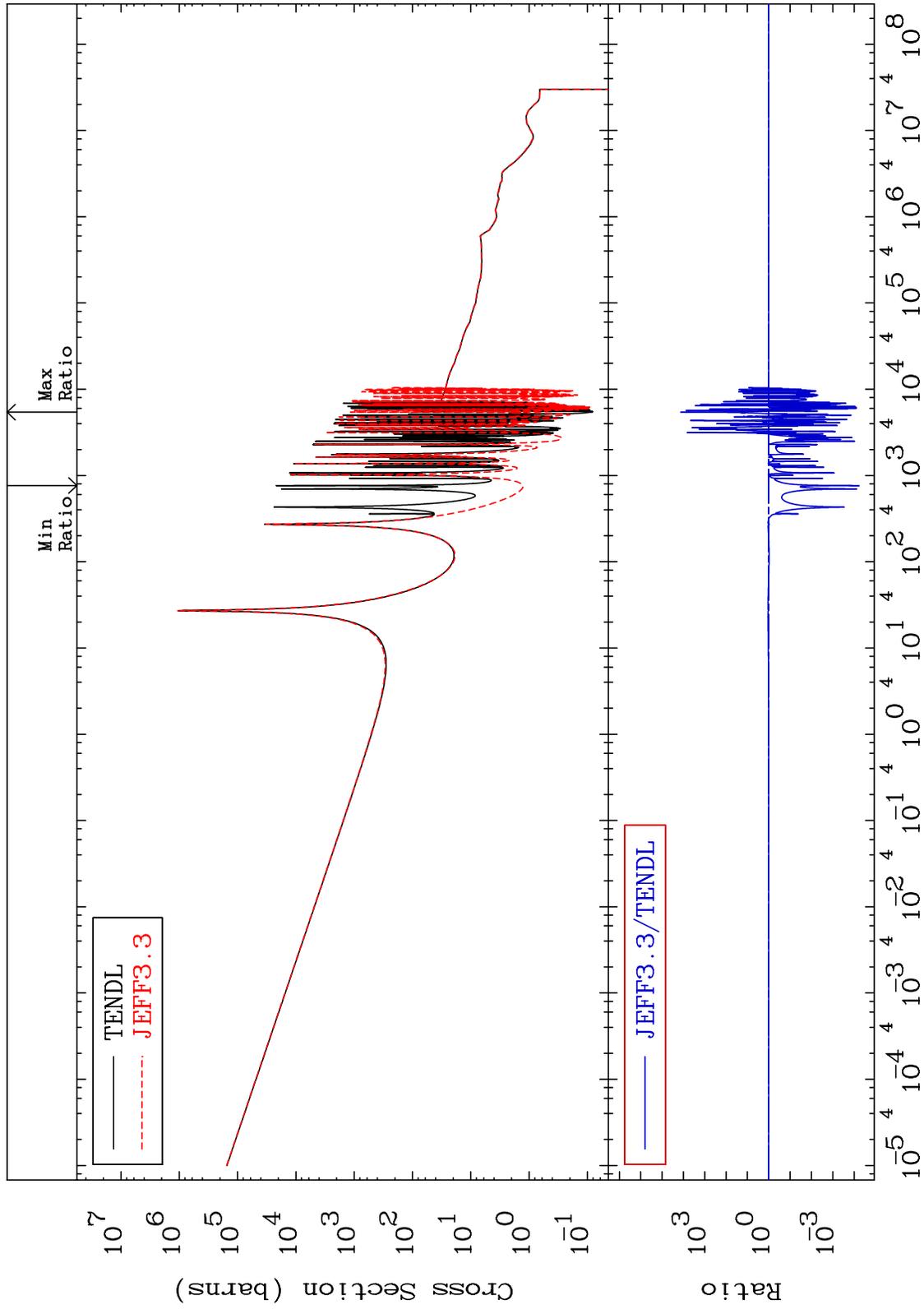
Incident Energy (eV)

34-Se-74

MAT 3425

Kerma capture (mt102)  
Cross Section

34-Se-74  
-99.99 To 9999. %



73

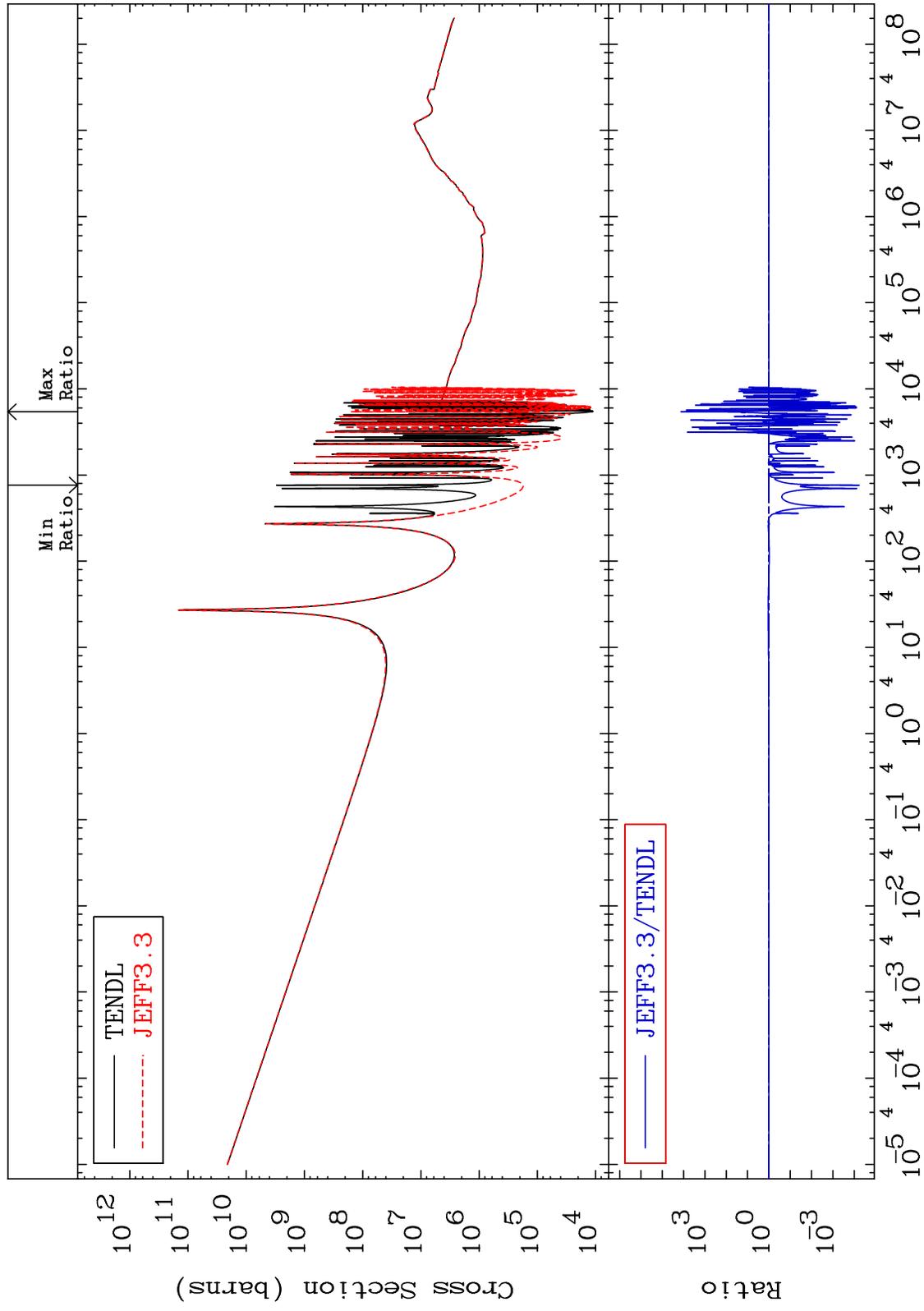
Incident Energy (eV)

34-Se-74

MAT 3425

Total photon (eV-barns)  
Cross Section

34-Se-74  
-99.99 To 9999. %



74

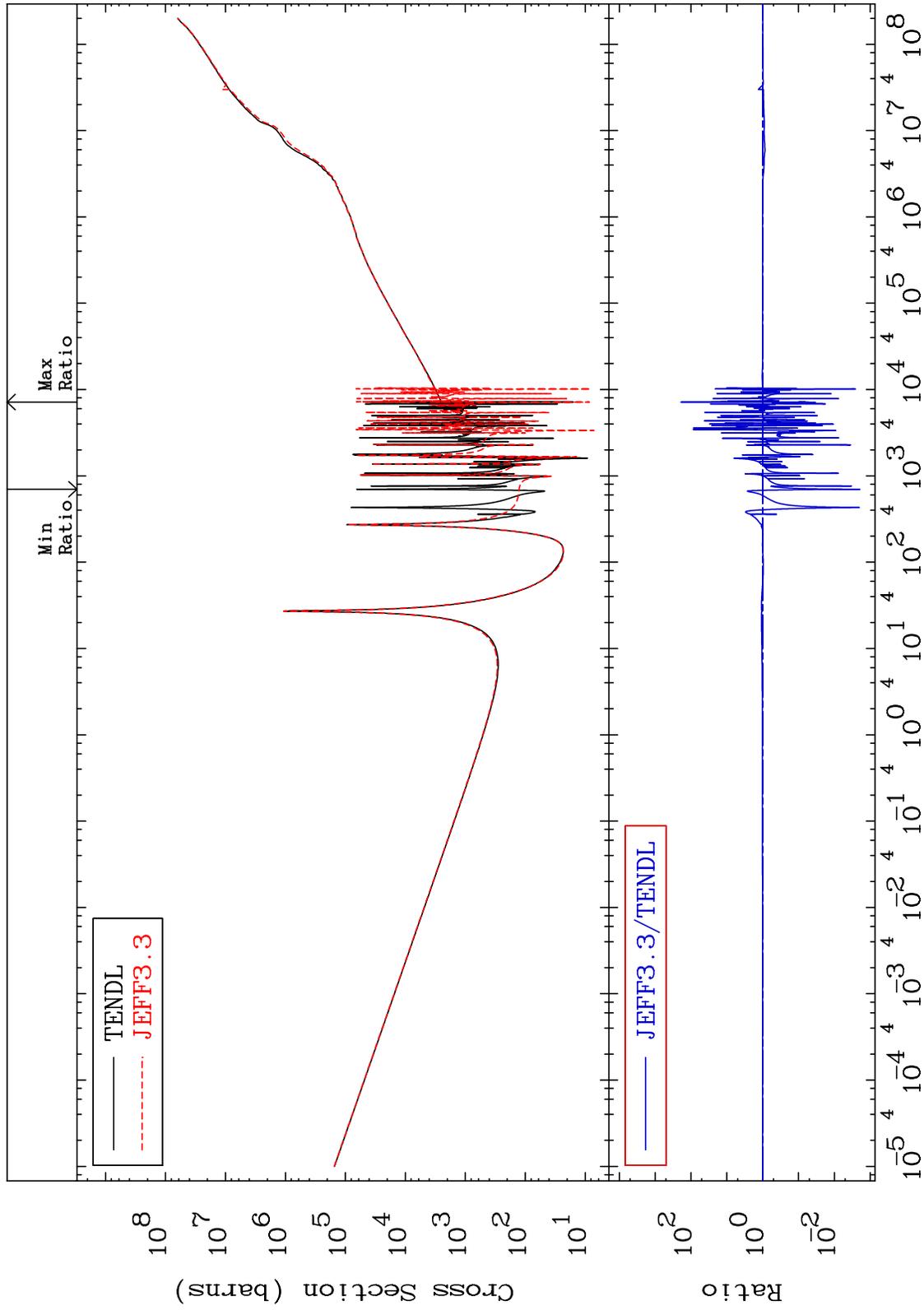
Incident Energy (eV)

34-Se-74

MAT 3425

Total kinematic kerma (high limit)  
Cross Section

34-Se-74  
-99.81 To 9999. %



75

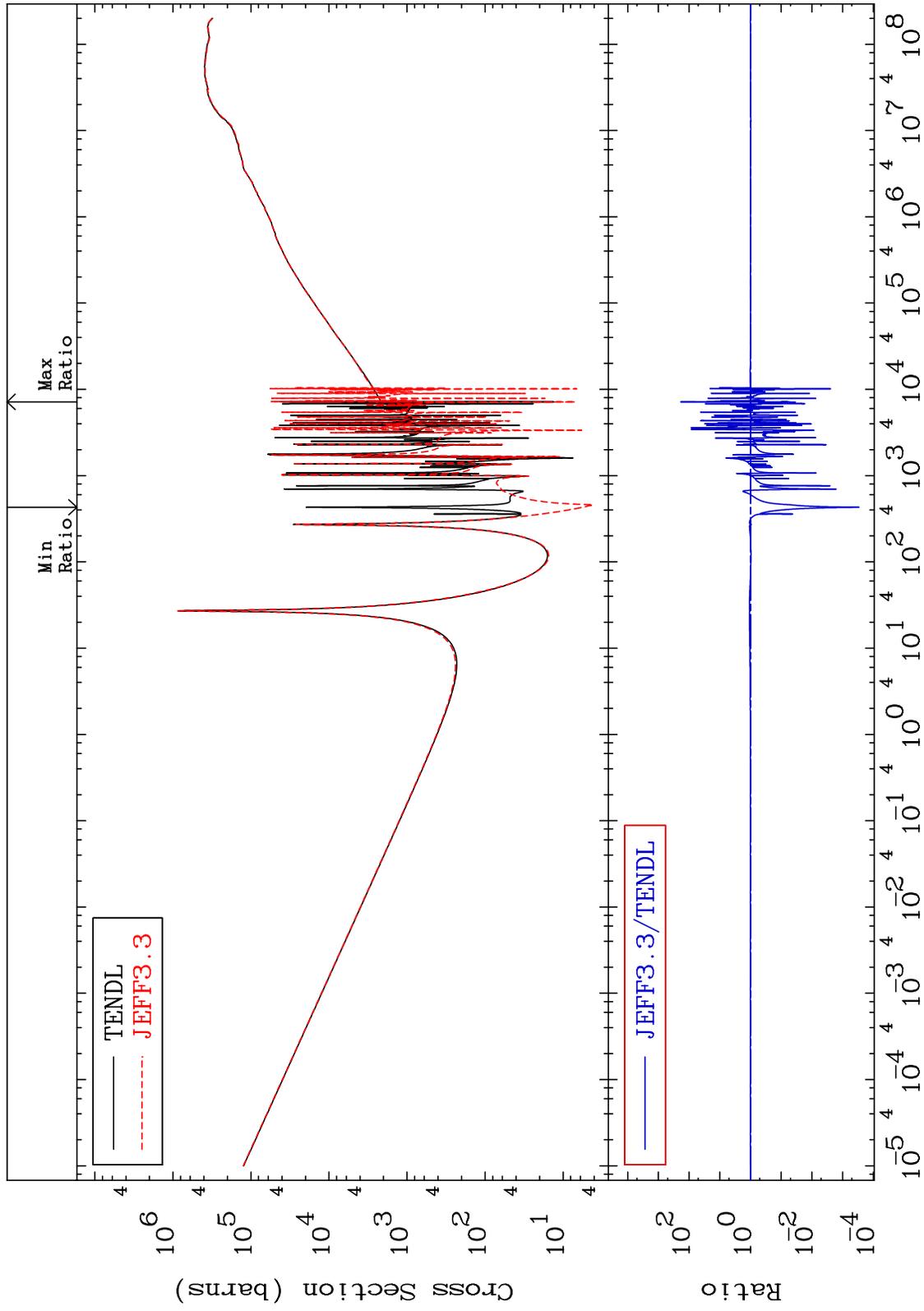
Incident Energy (eV)

34-Se-74

MAT 3425

Dpa total (eV-barns)  
Cross Section

34-Se-74  
-99.97 To 9999. %



76

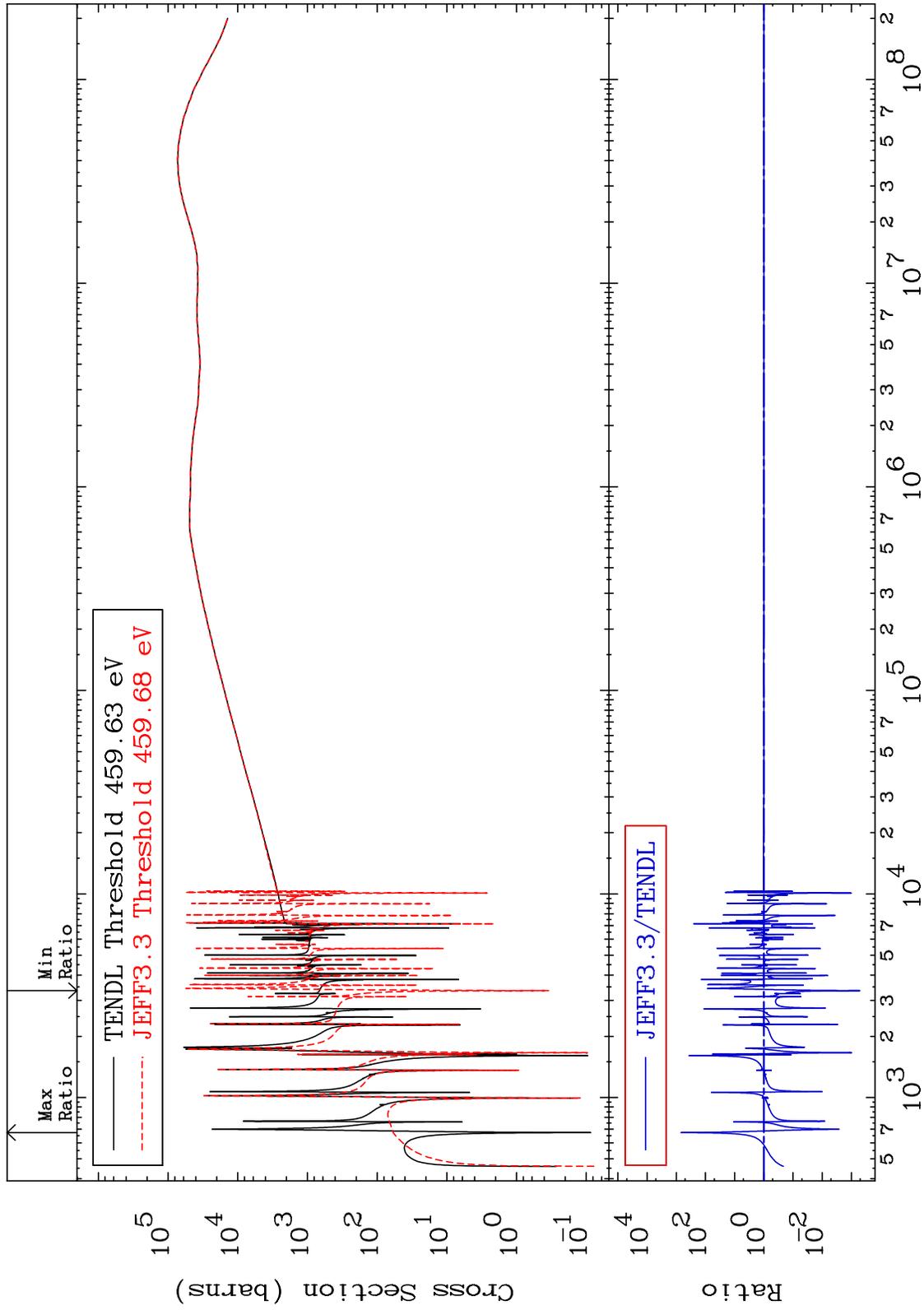
Incident Energy (eV)

34-Se-74

MAT 3425

Dpa elastic (mt2)  
Cross Section

34-Se-74  
-99.95 To 9999. %

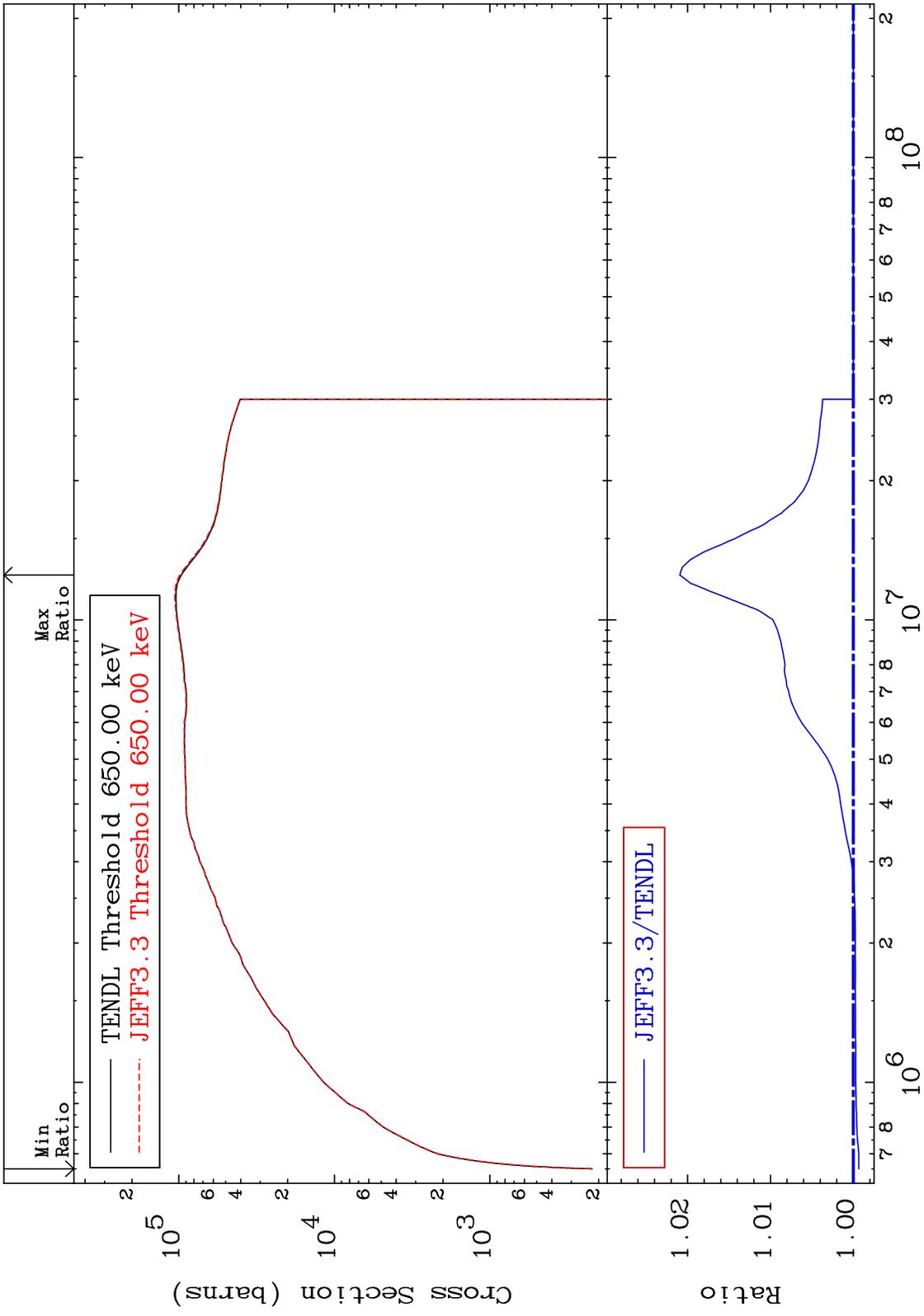


77

34-Se-74

34-Se-74

MAT 3425      Dpa inelastic (mt51-91)      34-Se-74  
 Cross Section      -0.066 To 2.095 %

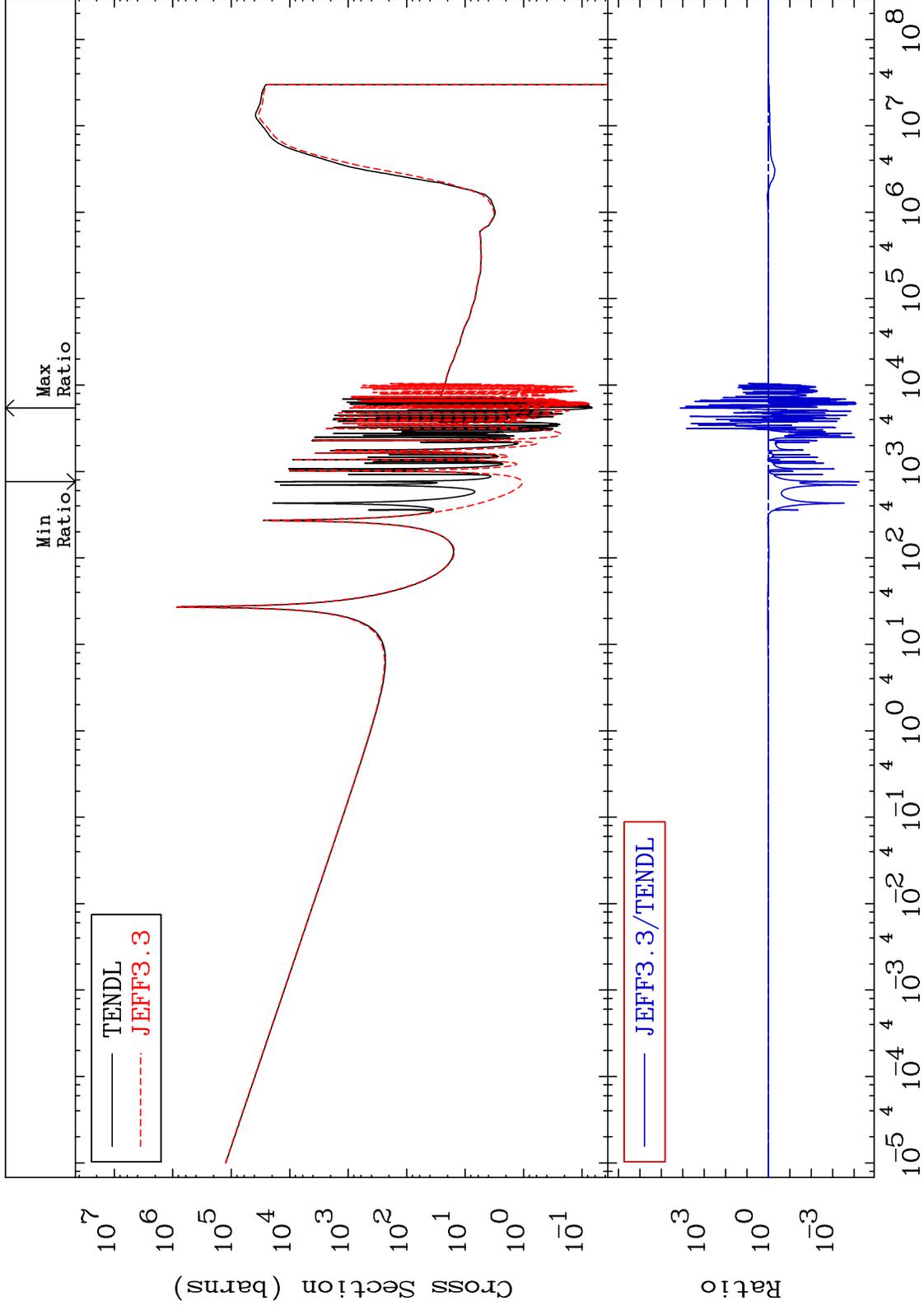


78      Incident Energy (eV)      34-Se-74

MAT 3425

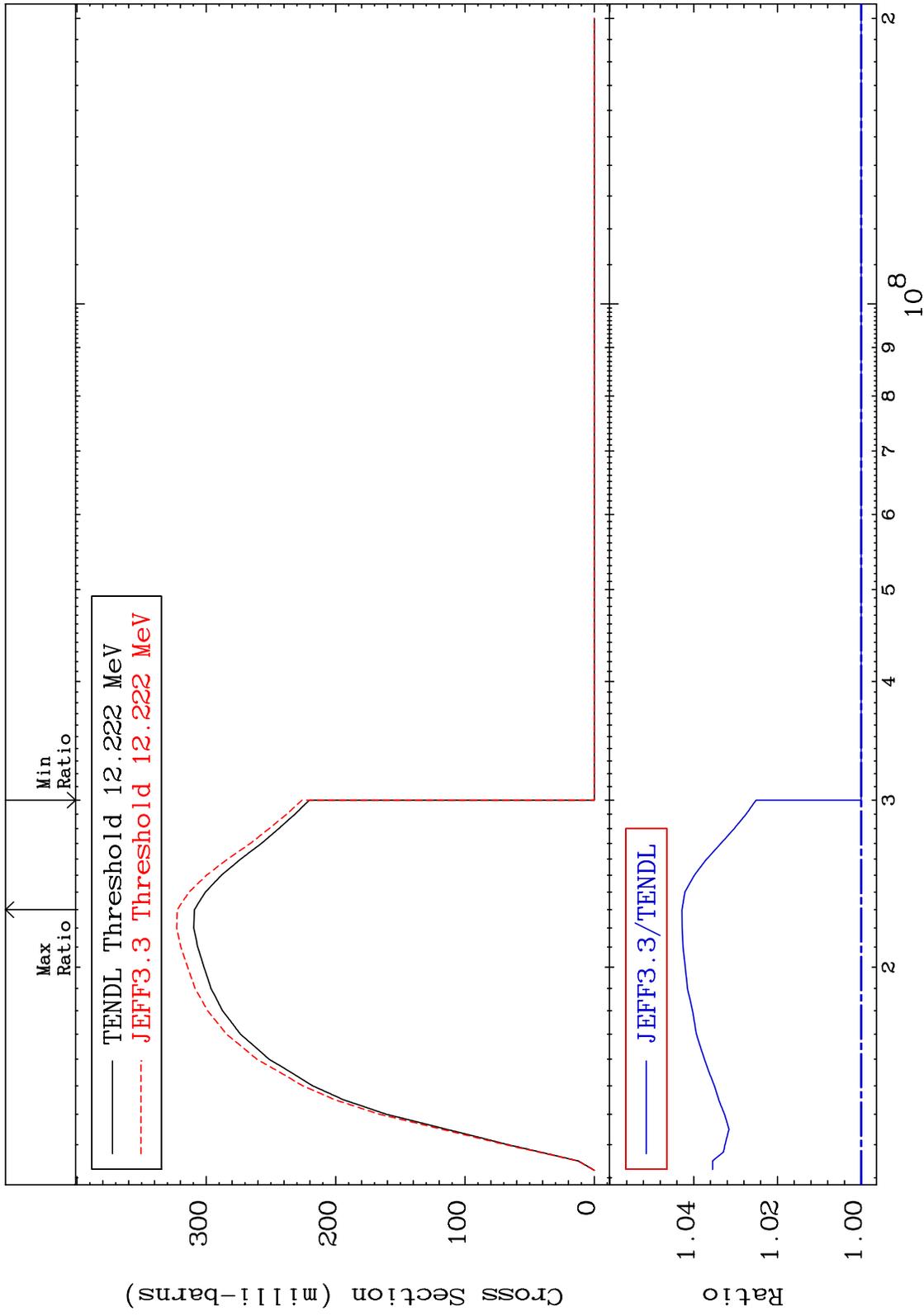
Dpa disappearance (mt102 -120)  
Cross Section

34-Se-74  
-99.99 To 9999. %

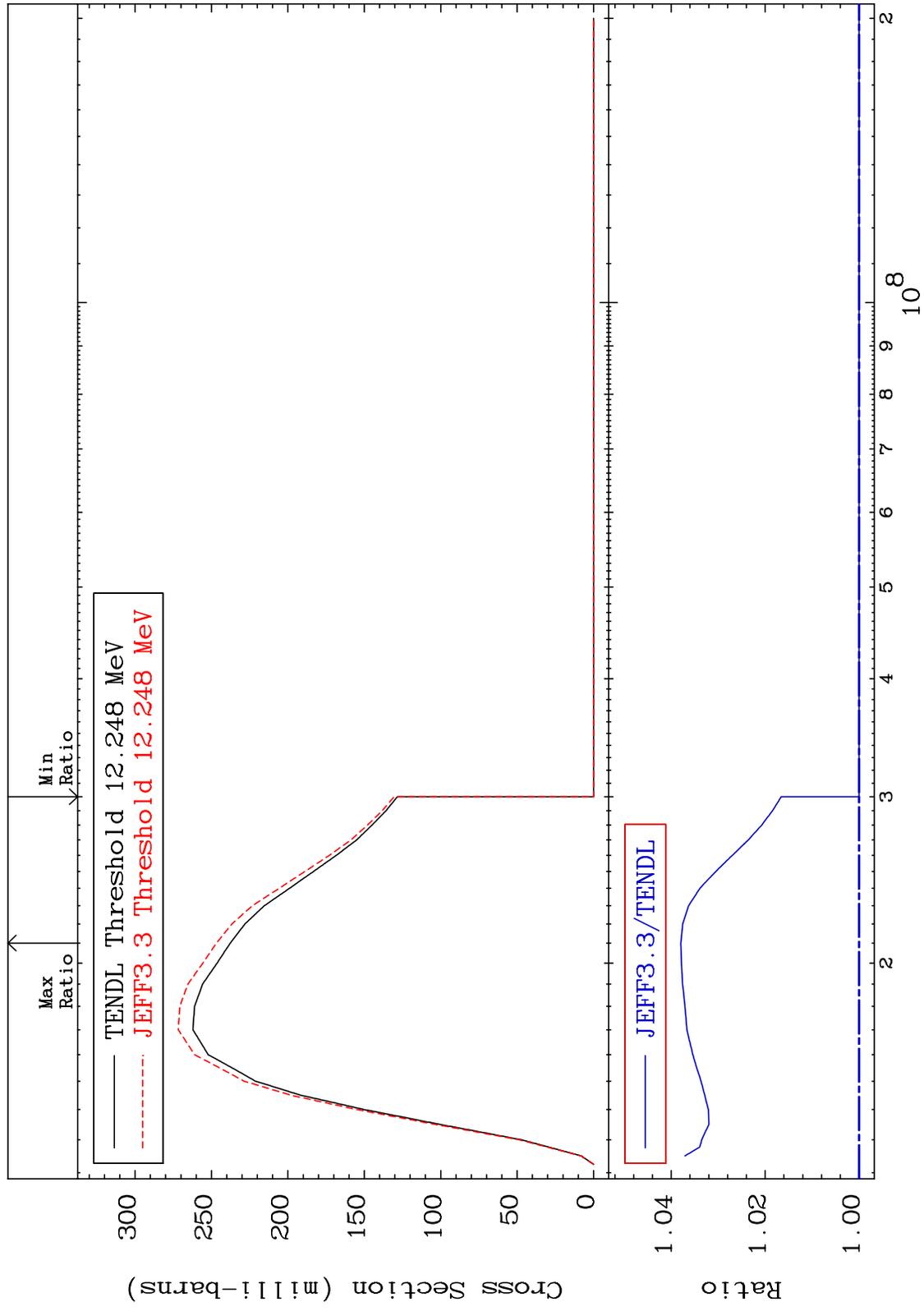


MAT 3425

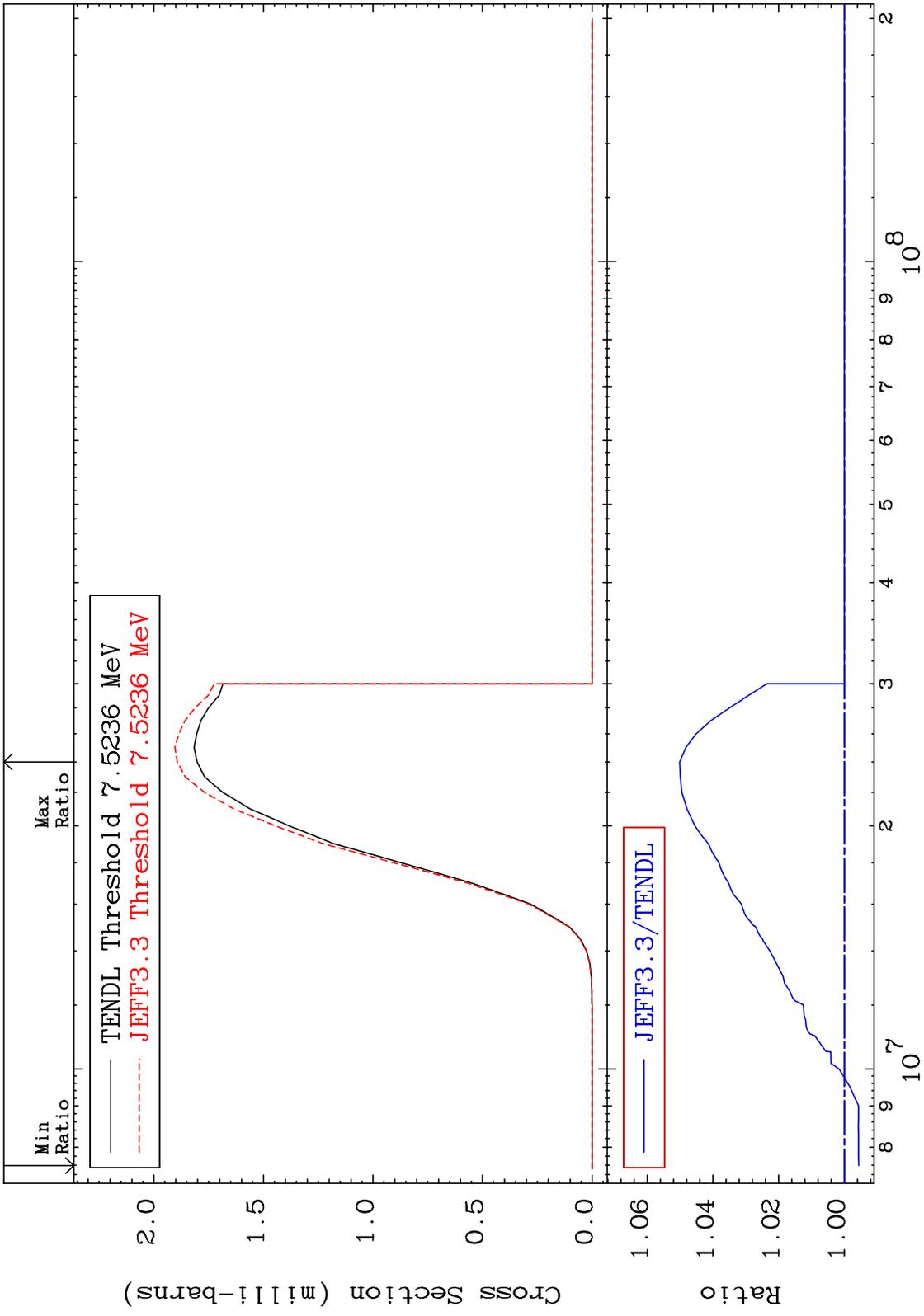
(n,2n):34-Se-73g 34-Se-74  
Radionuclide Production Cross Section 0.000 To 4.279 %



MAT 3425 (n,2n):34-Se-73m1 34-Se-74  
Radionuclide Production Cross Section 0.000 To 3.796 %



MAT 3425 (n,2p):32-Ge-73g 34-Se-74  
 Radionuclide Production Cross Section -0.439 To 5.012 %



MAT 3425 (n,2p):32-Ge-73m2 34-Se-74  
 Radionuclide Production Cross Section -0.480 To 4.815 %

