

Program Complot
(Version 2018-1)

by

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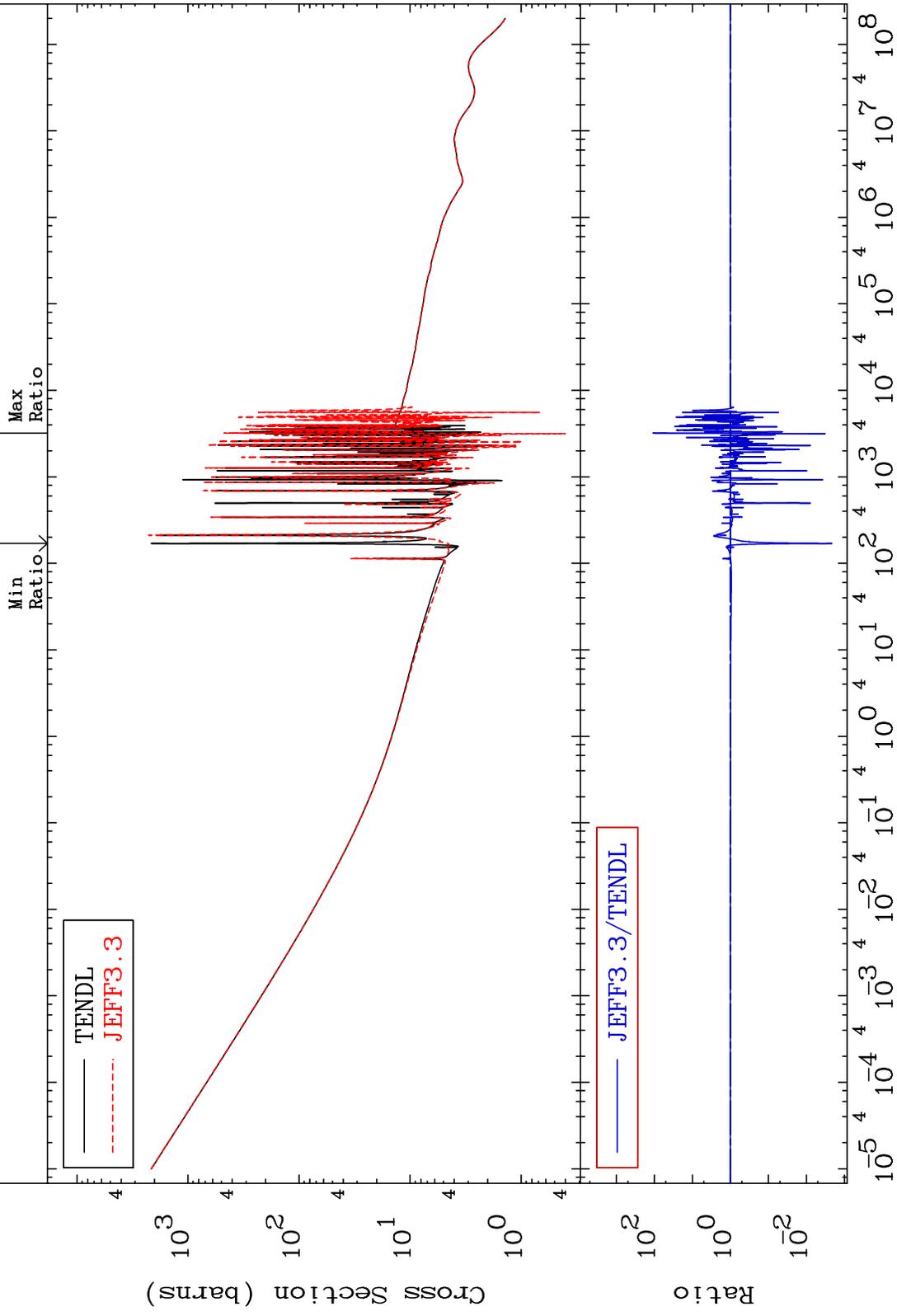
Press Mouse Button to Start

MAT 3434

Total
Cross Section

34-Se-77

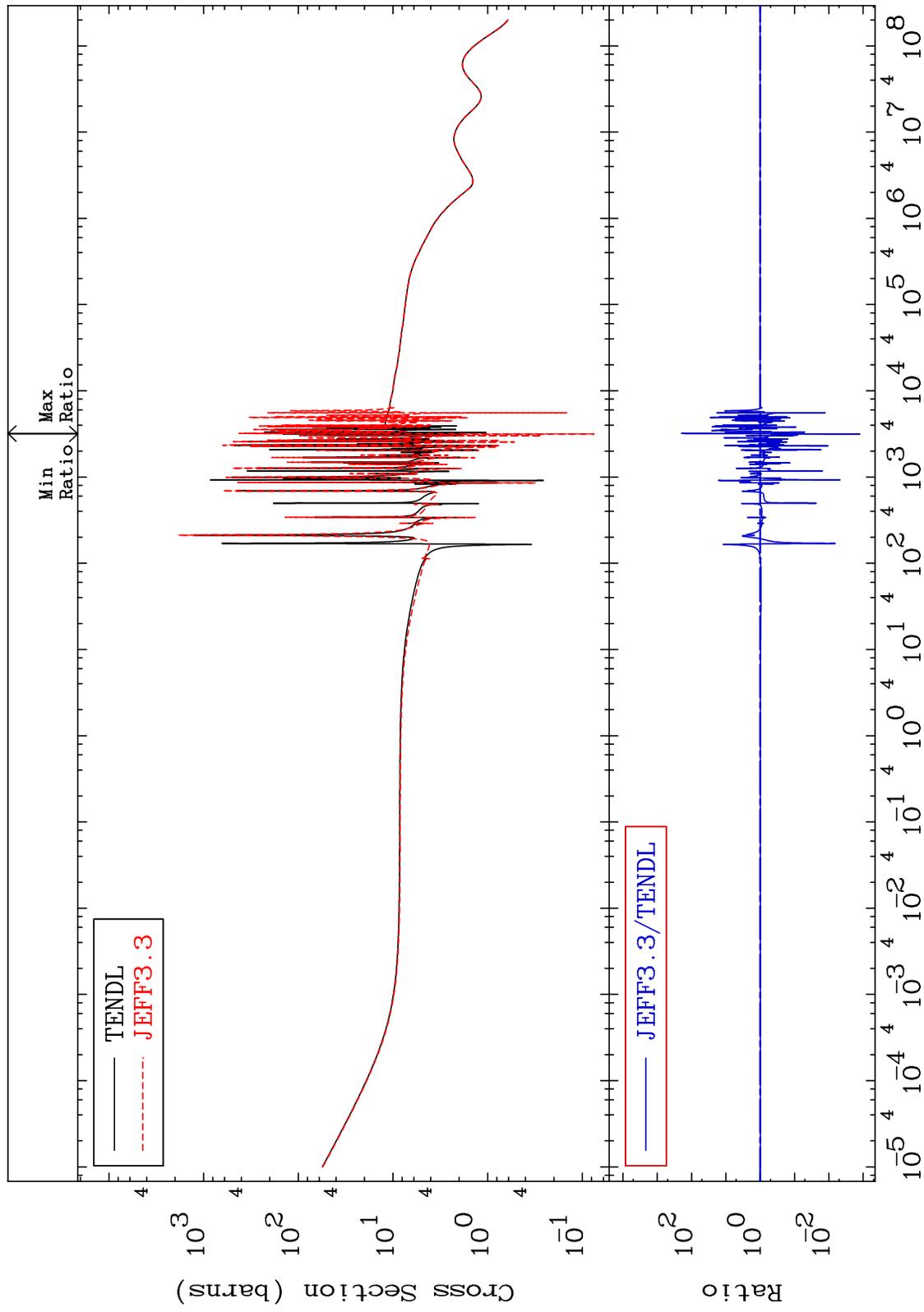
-99.79 To 9999. %



MAT 3434

Elastic
Cross Section

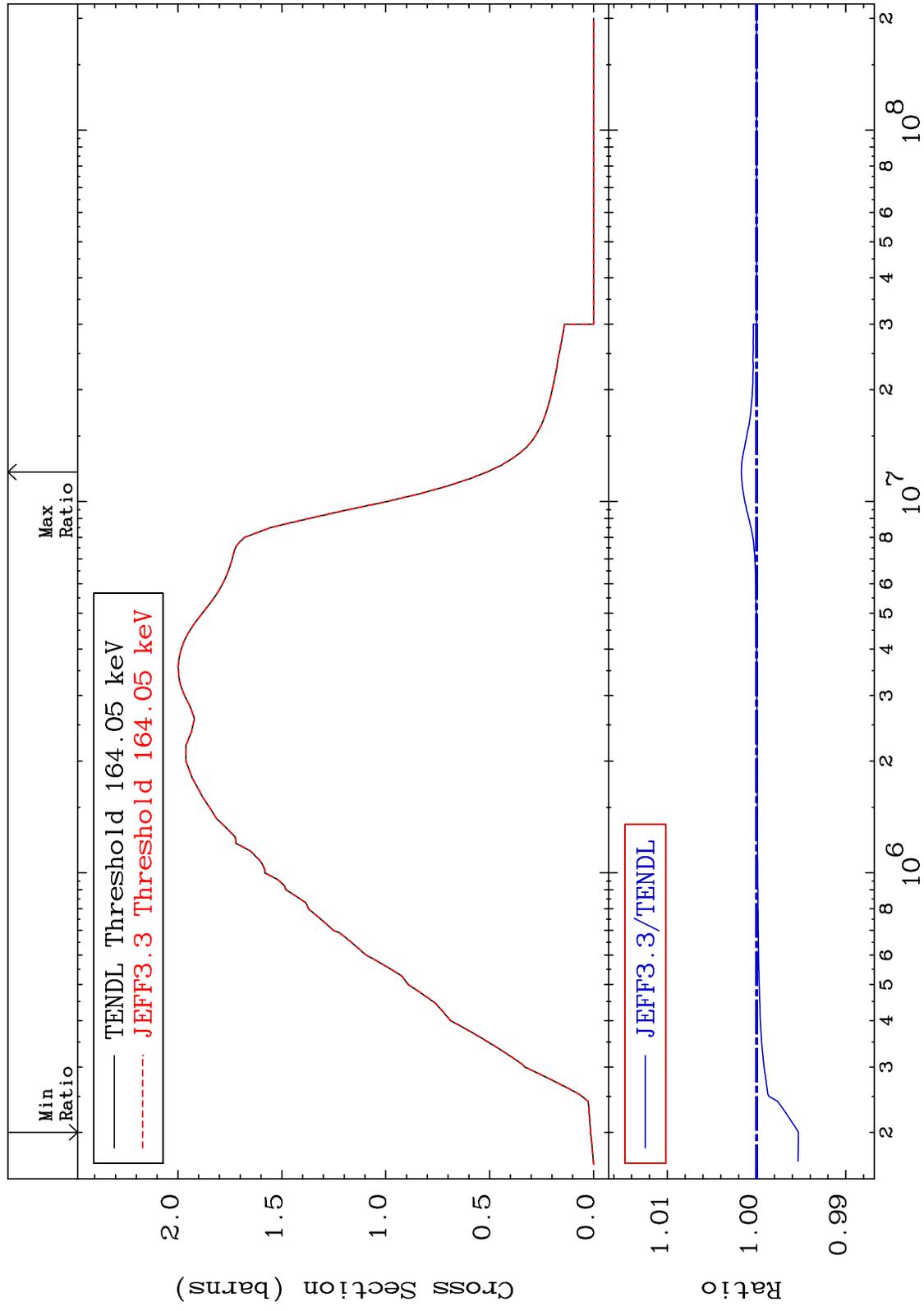
34-Se-77
-99.88 To 9999. %



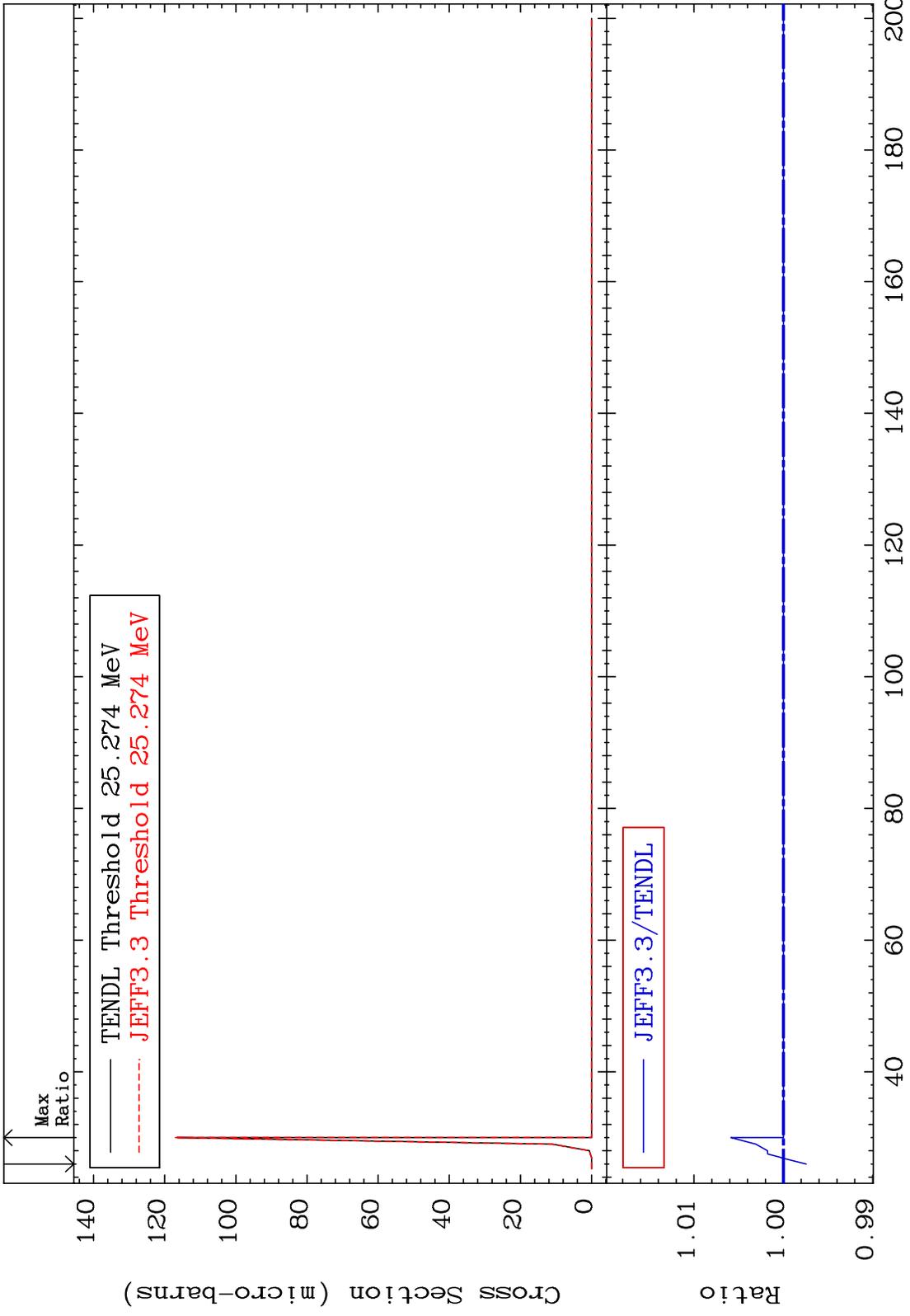
2

Incident Energy (eV)

34-Se-77



MAT 3434 (n,2n) d 34-Se-77
Cross Section -0.256 To 0.587 %



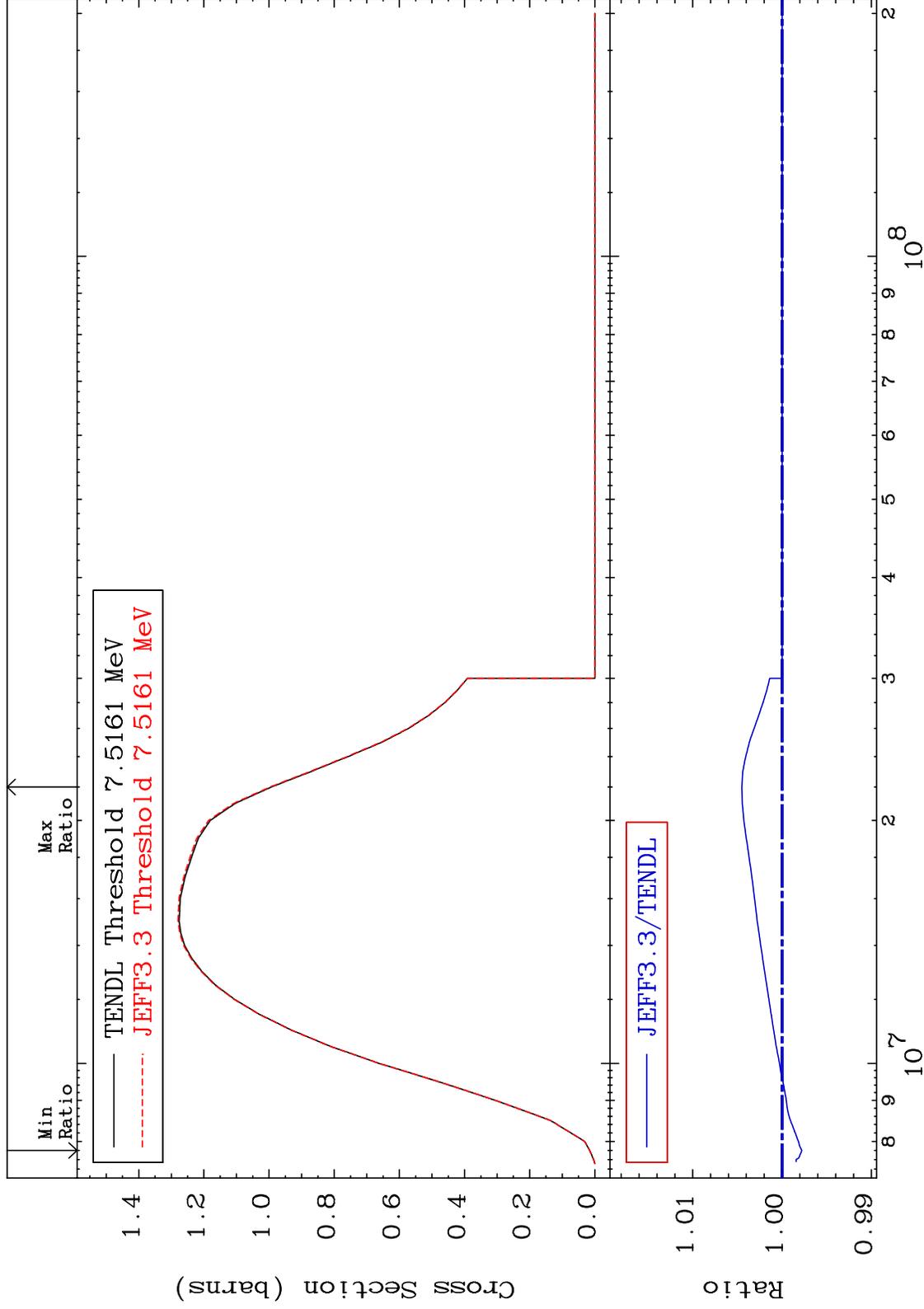
MAT 3434

(n,2n)

³⁴Se-77

-0.221 To 0.449 %

Cross Section

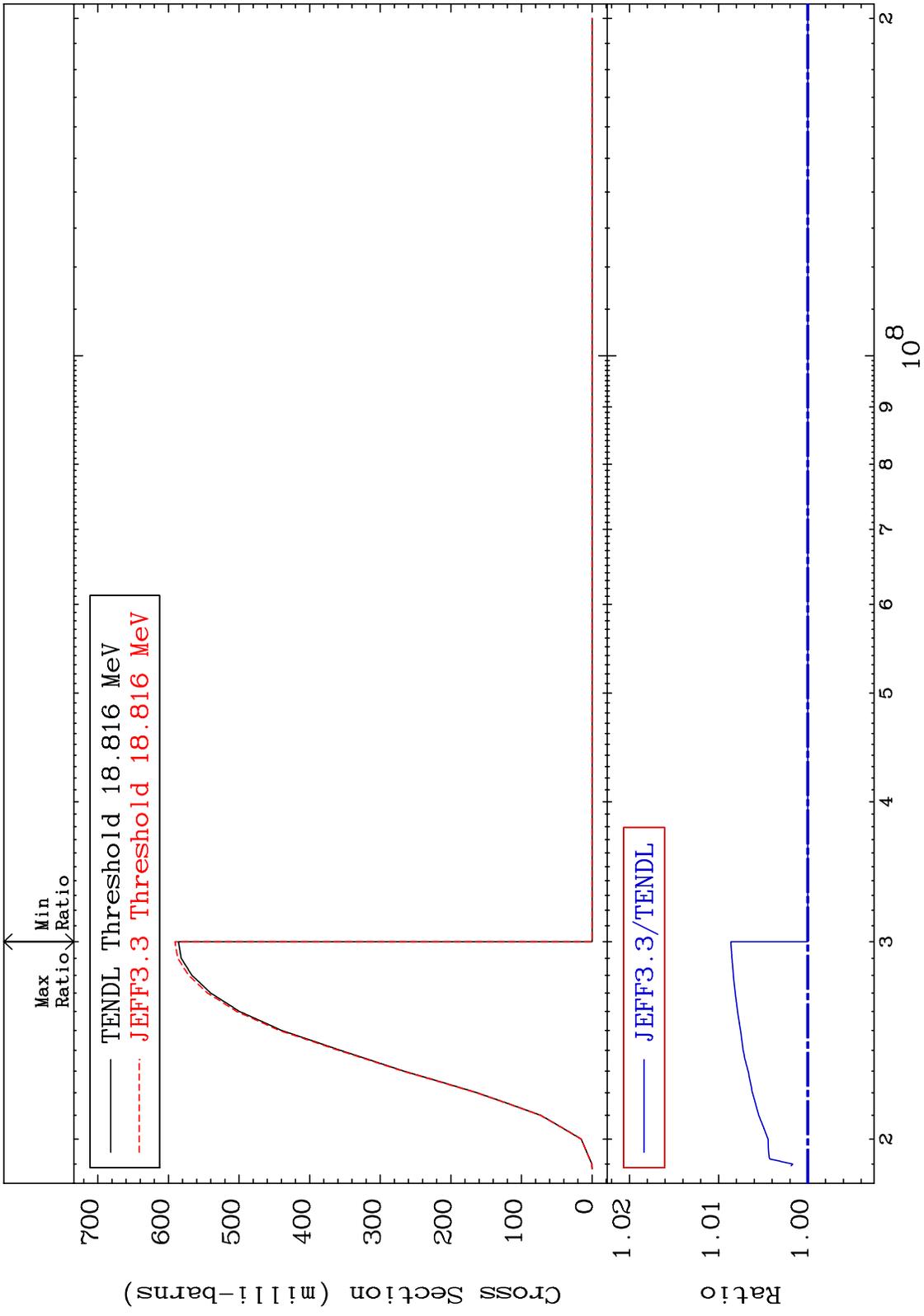


5

Incident Energy (eV)

³⁴Se-77

MAT 3434 $(n, 3n)$ Cross Section $^{34}\text{Se-77}$ To 0.863 %



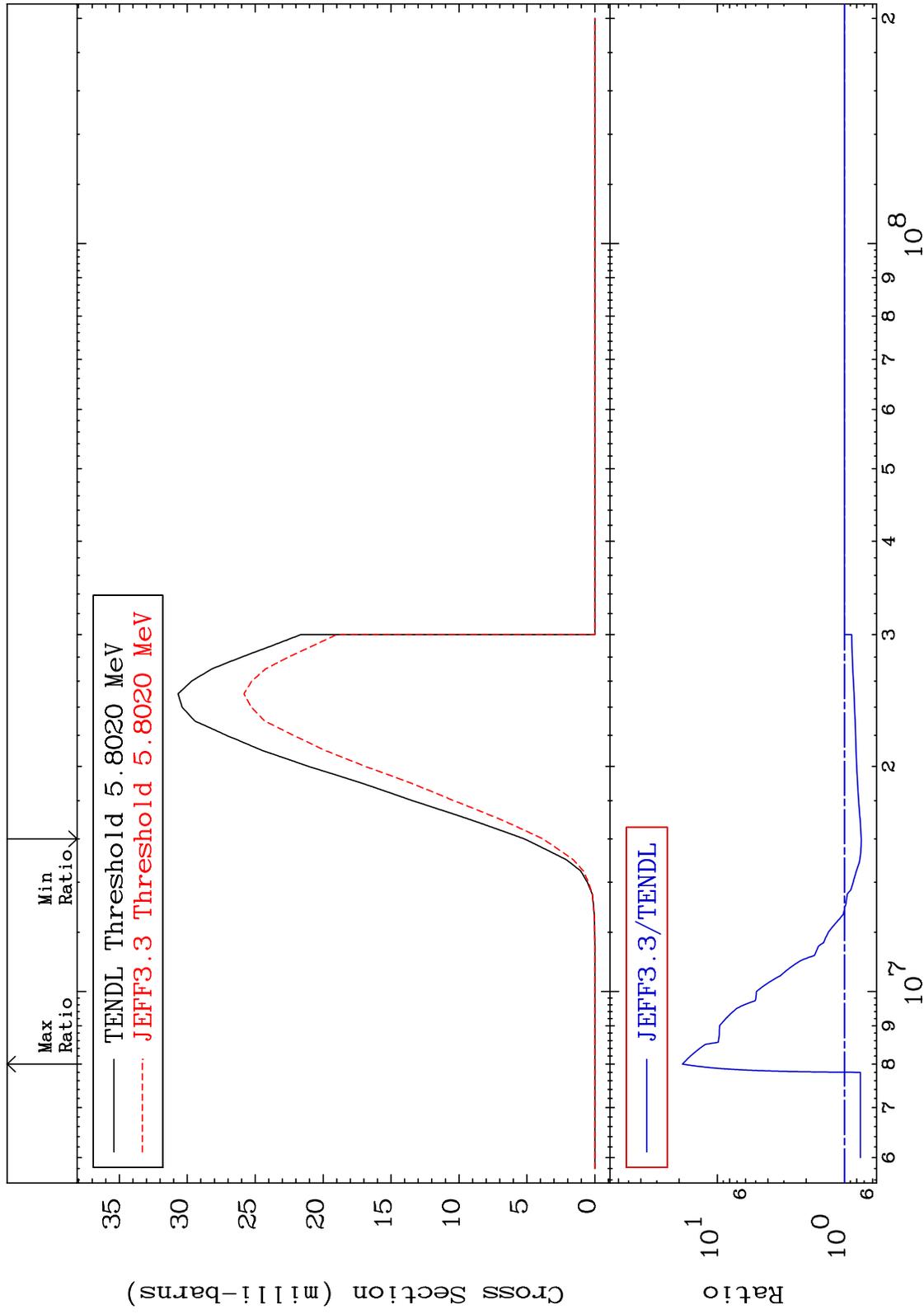
MAT 3434

(n,n') α

³⁴Se-77

Cross Section

-26.30 To 1784. %

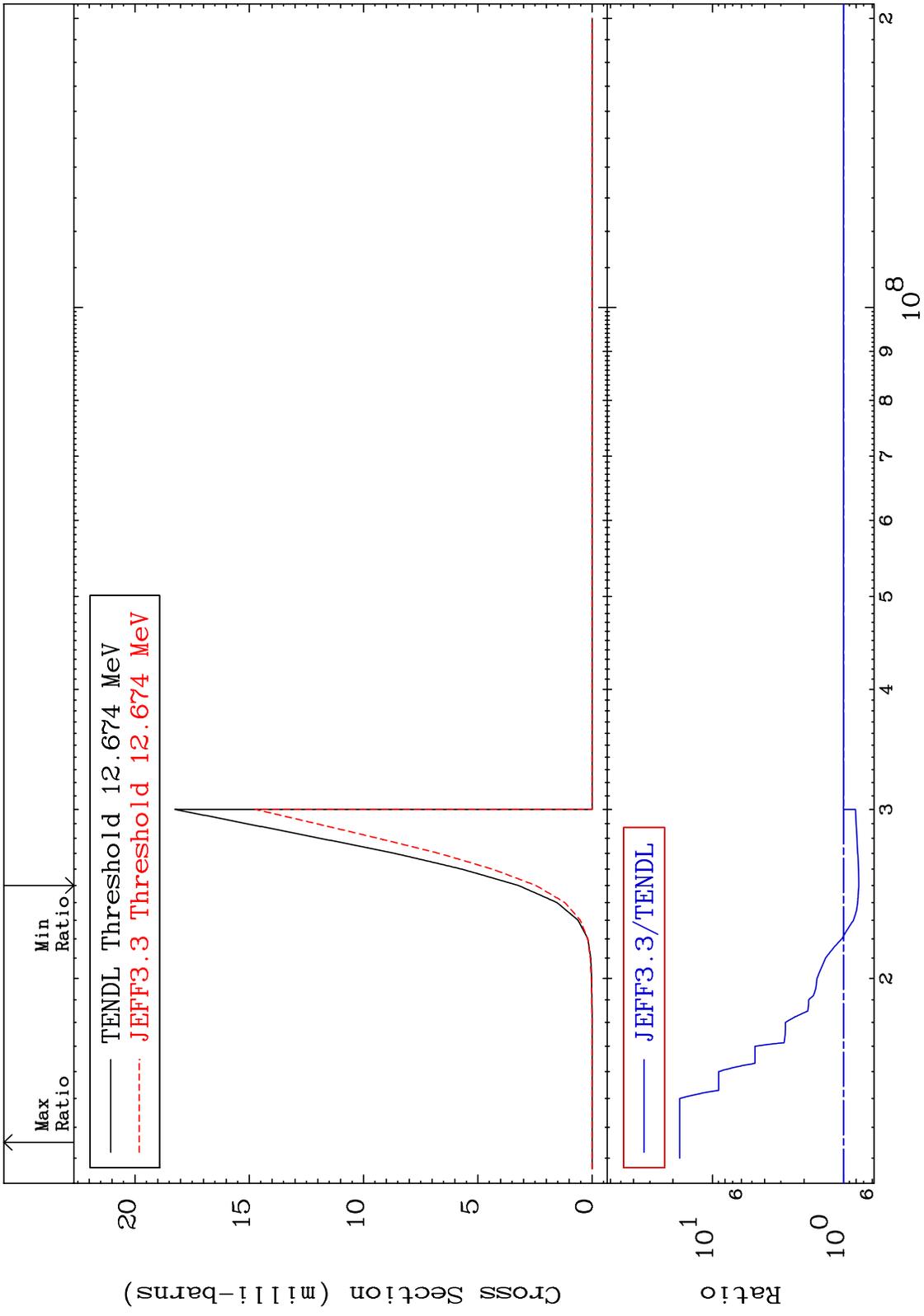


7

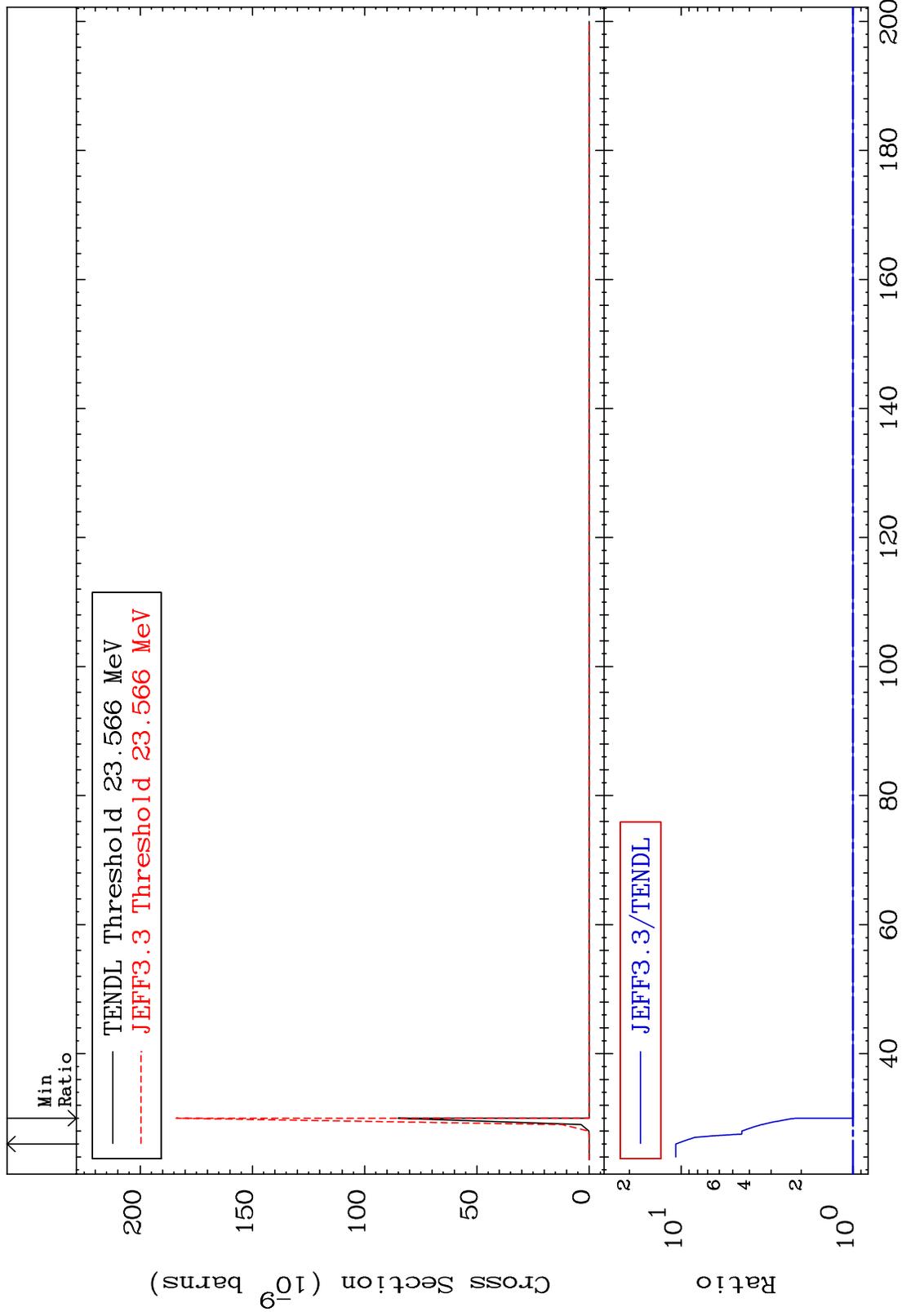
Incident Energy (eV)

³⁴Se-77

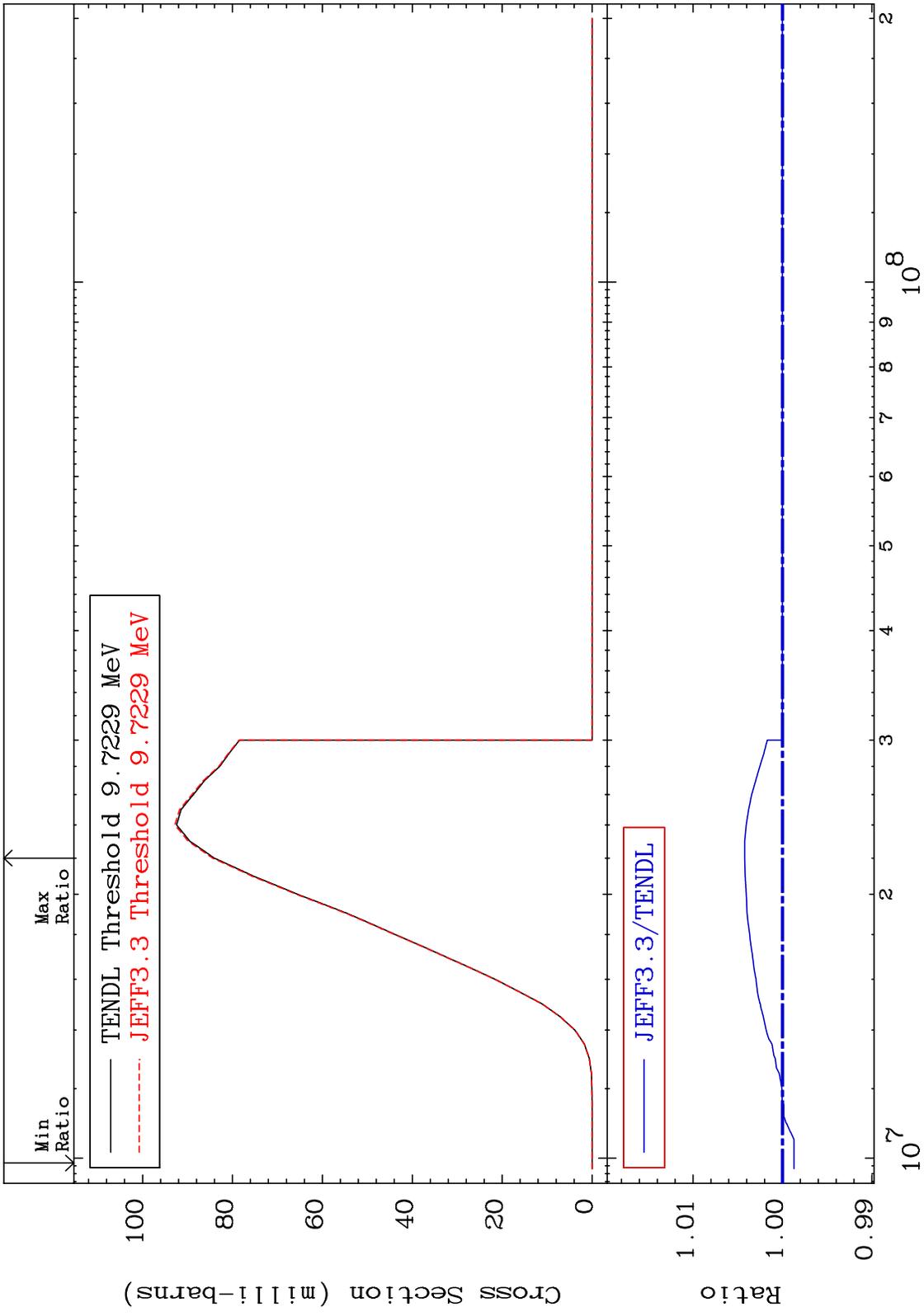
MAT 3434 $(n, 2n) \alpha$ $^{34}\text{Se-77}$
 Cross Section -23.81 To 1676. %



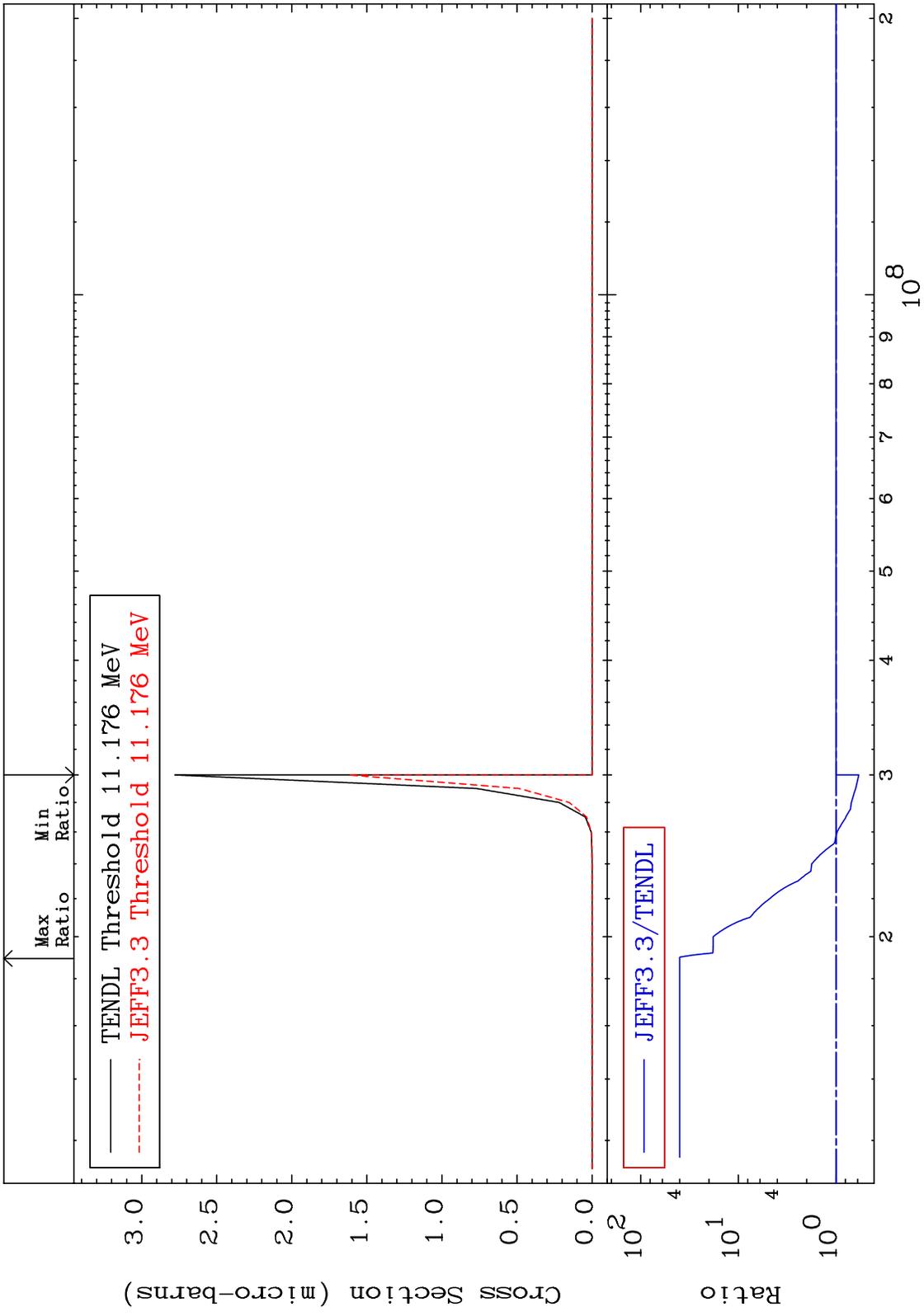
MAT 3434 (n,3n) α 34-Se-77
Cross Section 0.000 To 972.7 %



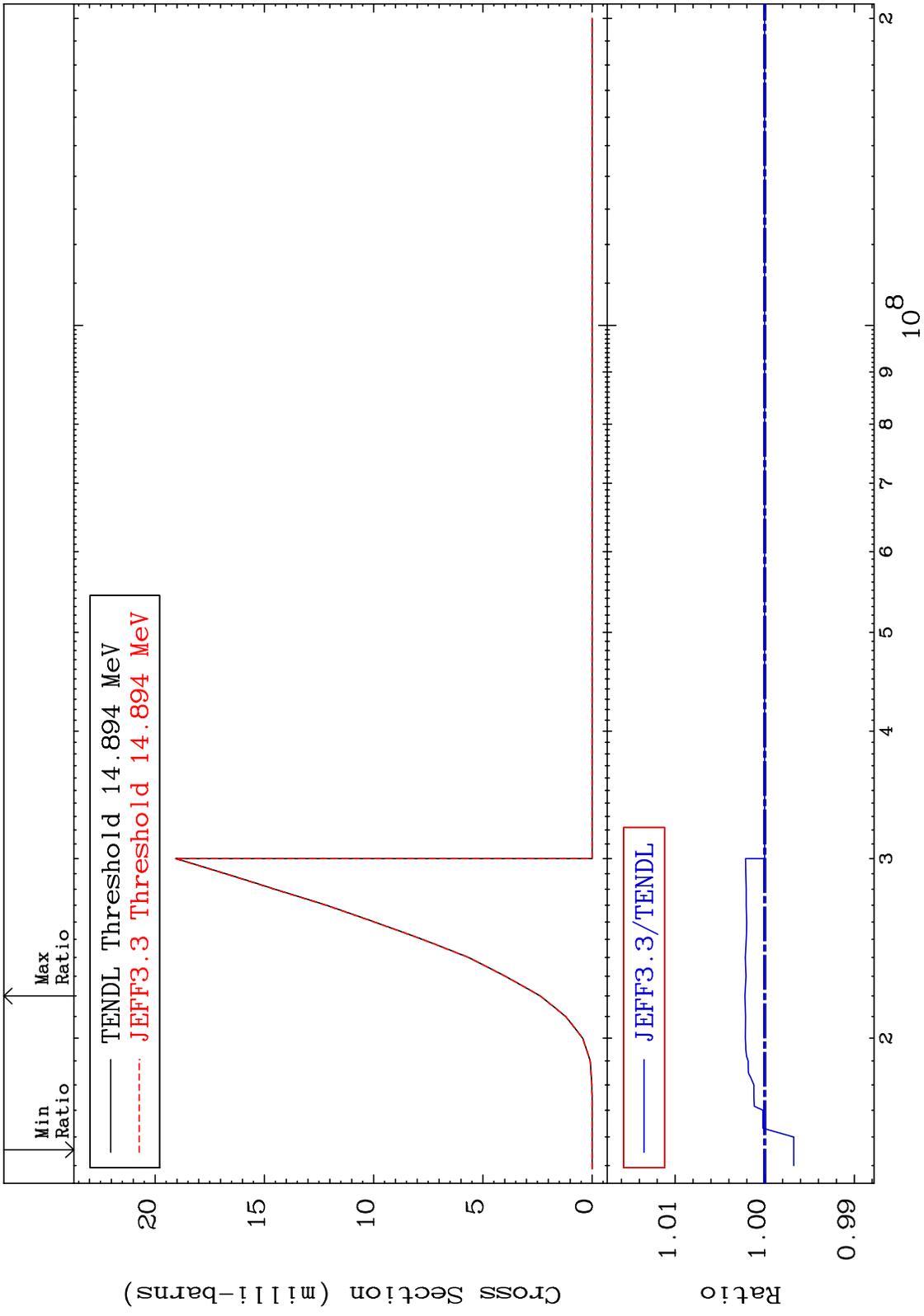
MAT 3434 (n,n') p 34-Se-77
 Cross Section -0.129 To 0.424 %

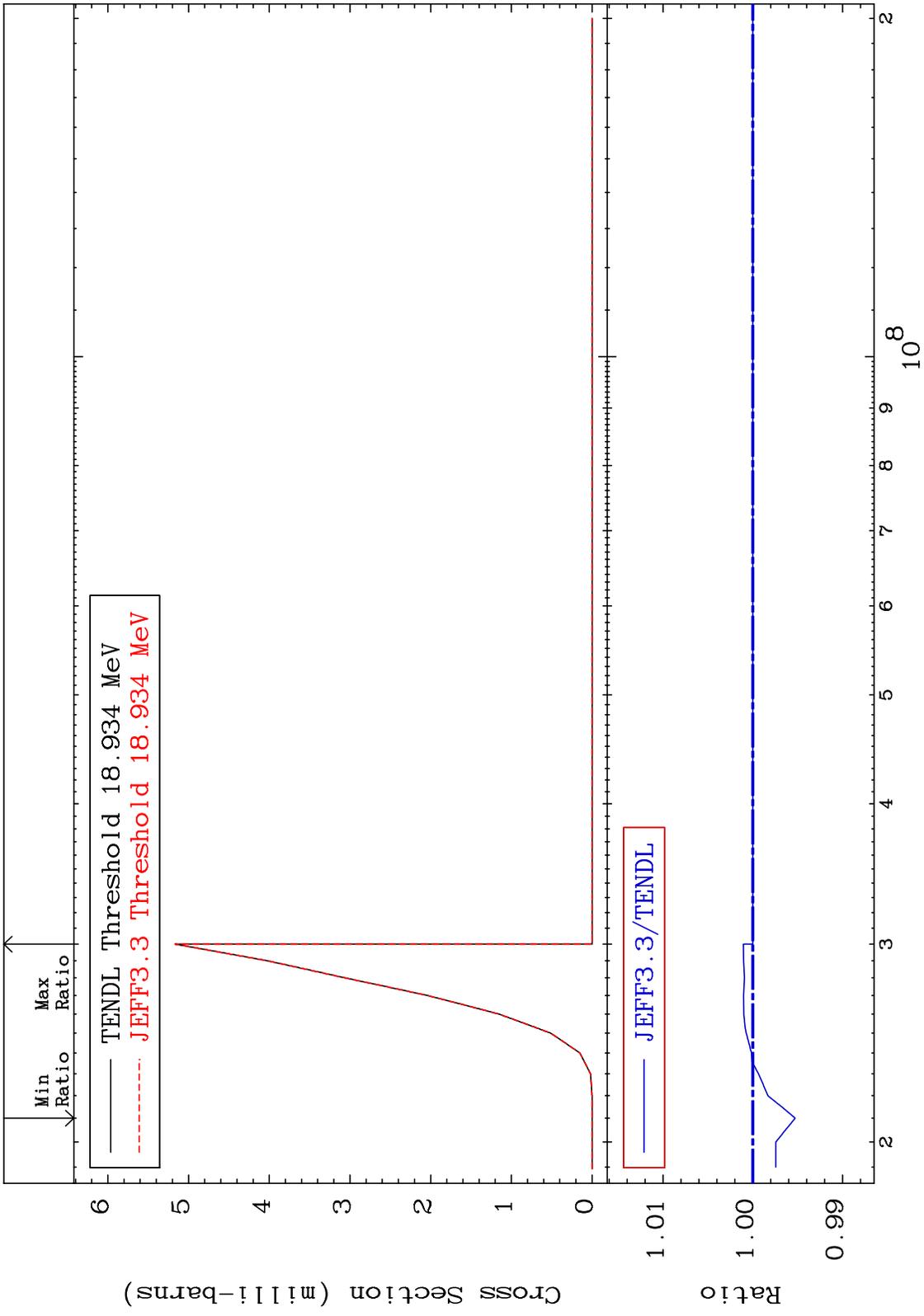


34-Se-77

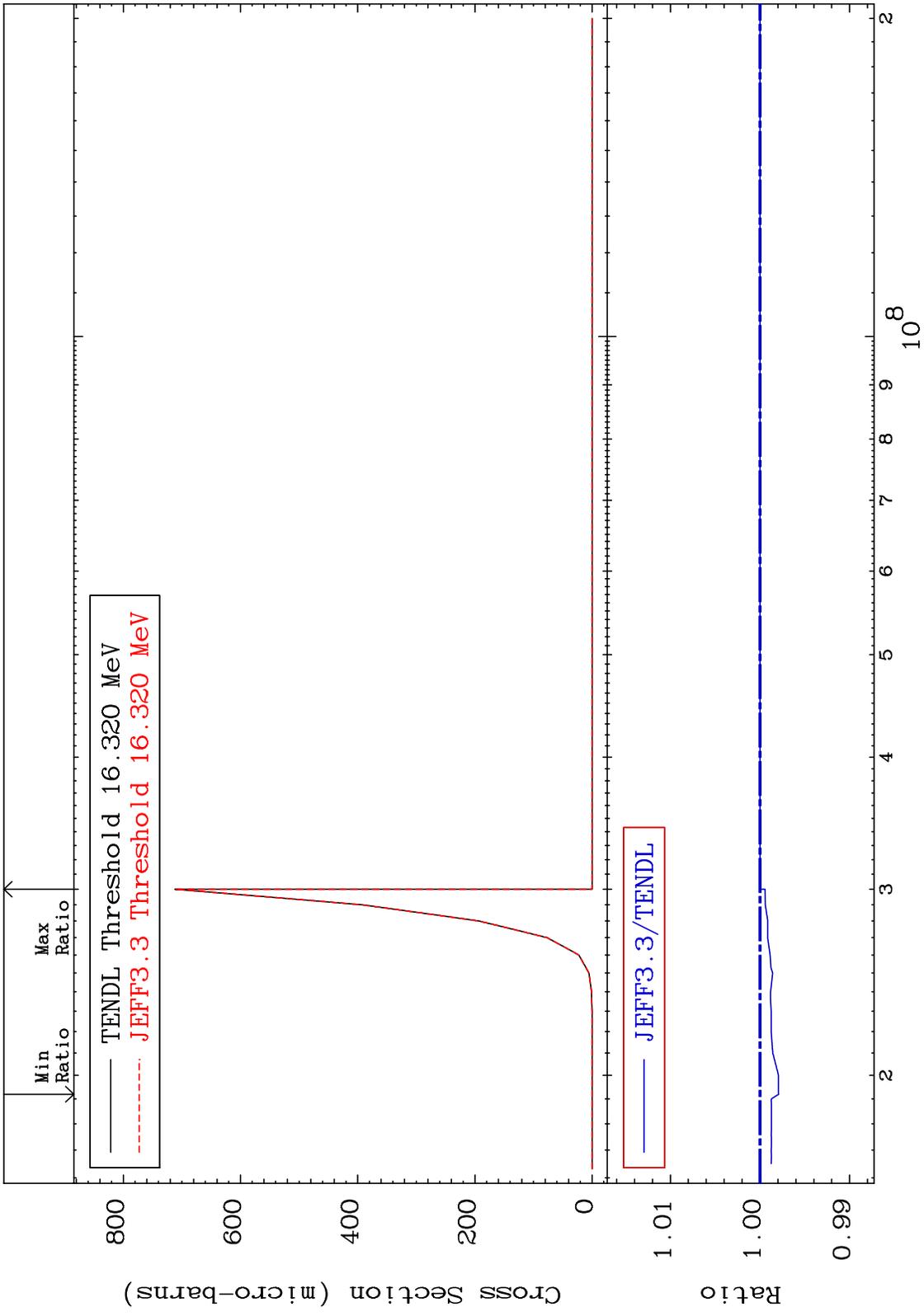


MAT 3434 (n,n') d 34-Se-77
 Cross Section -0.323 To 0.221 %

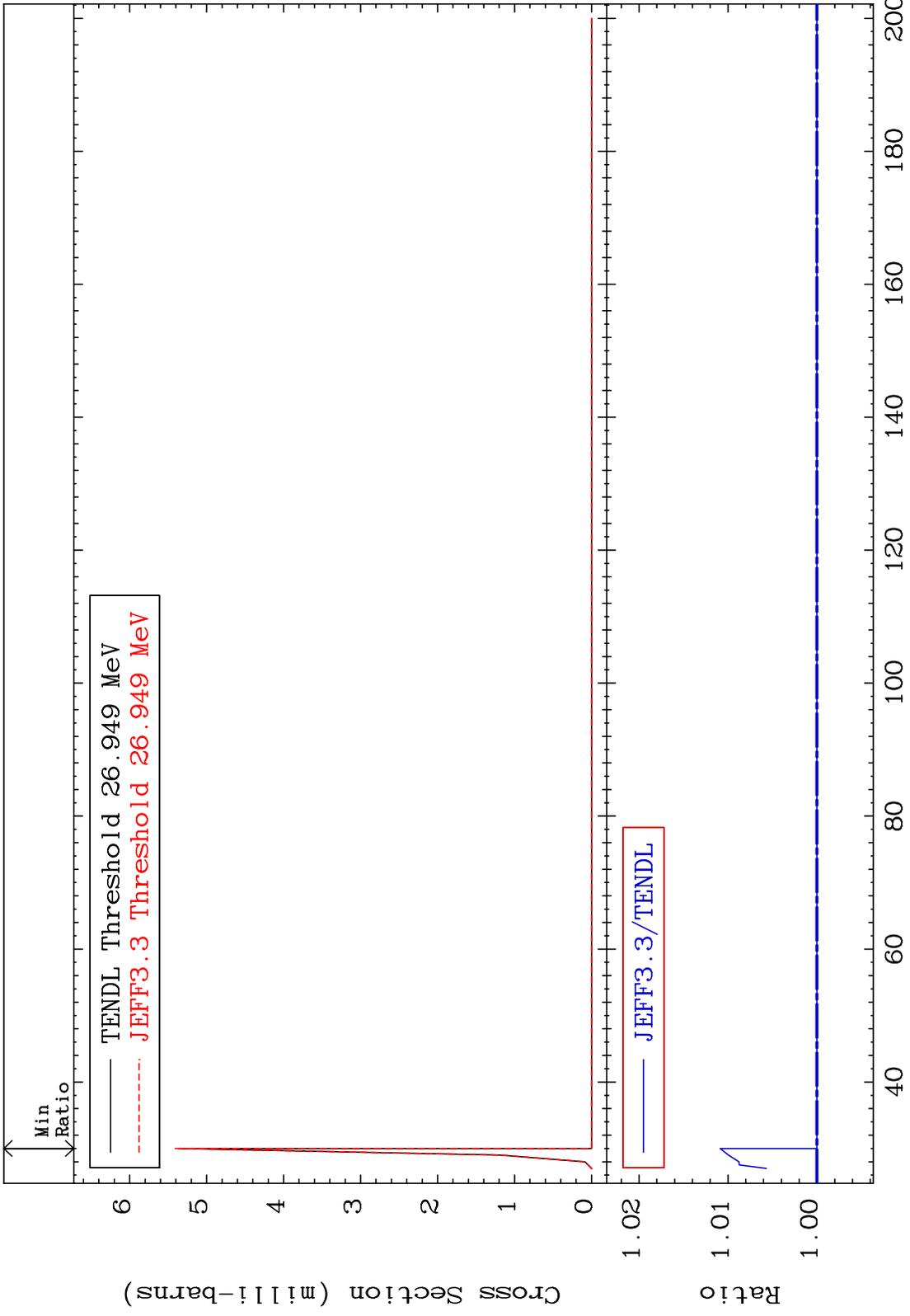




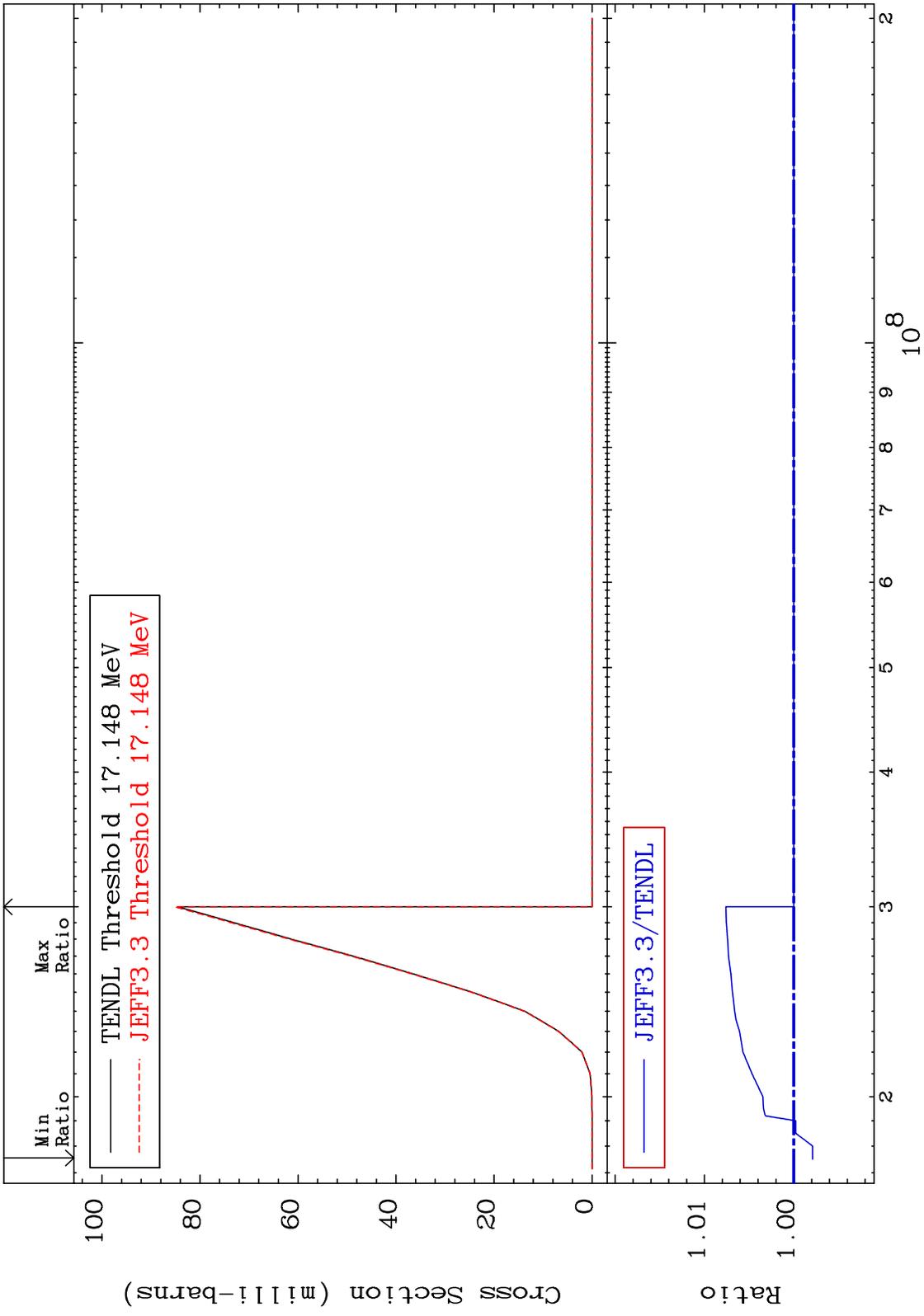
MAT 3434 (n,n') He-3 34-Se-77
 Cross Section -0.207 To 0.000 %



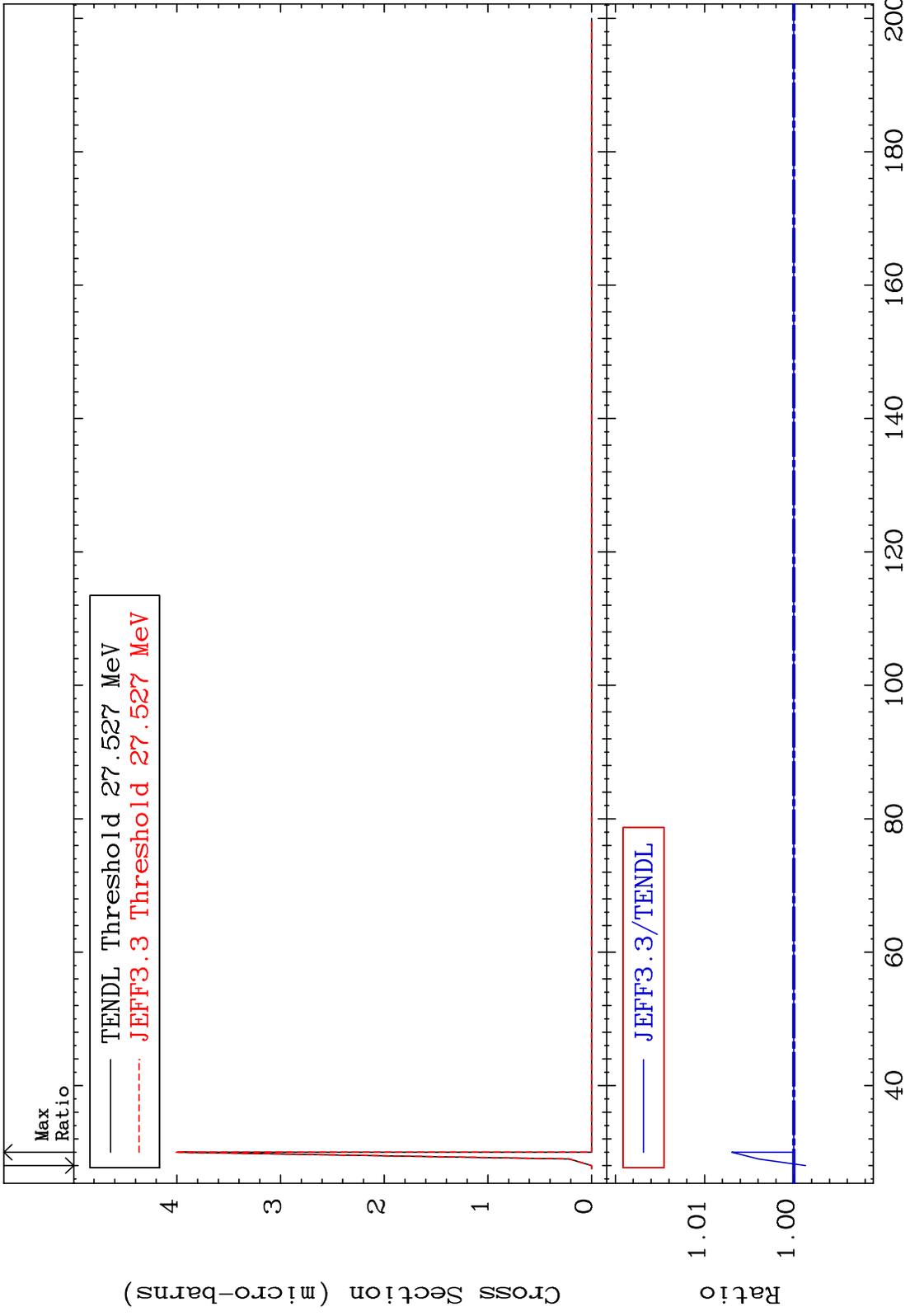
MAT 3434 (n,4n) Cross Section 34-Se-77 To 1.087 %



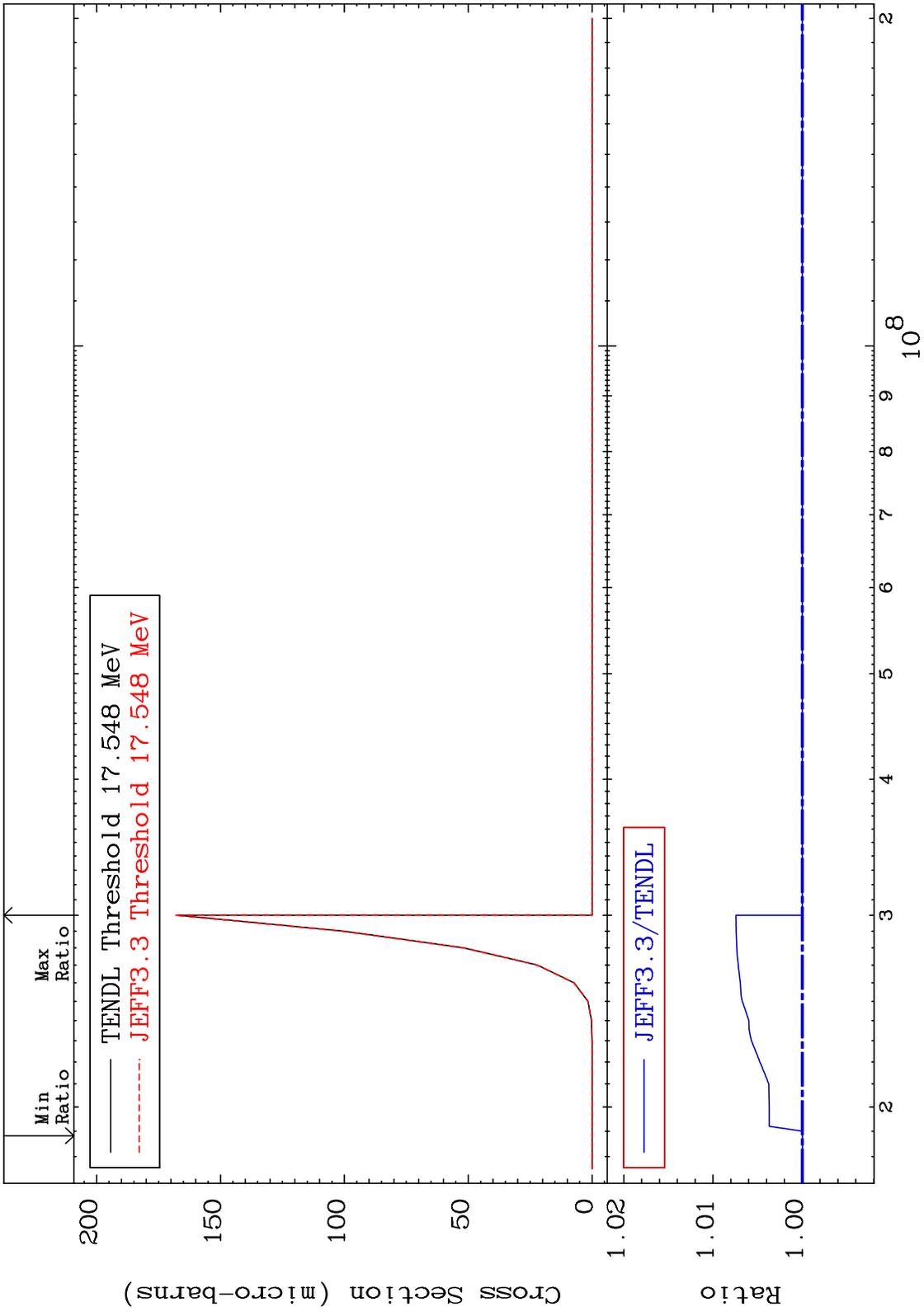
MAT 3434 (n,2n) p 34-Se-77
 Cross Section -0.211 To 0.759 %



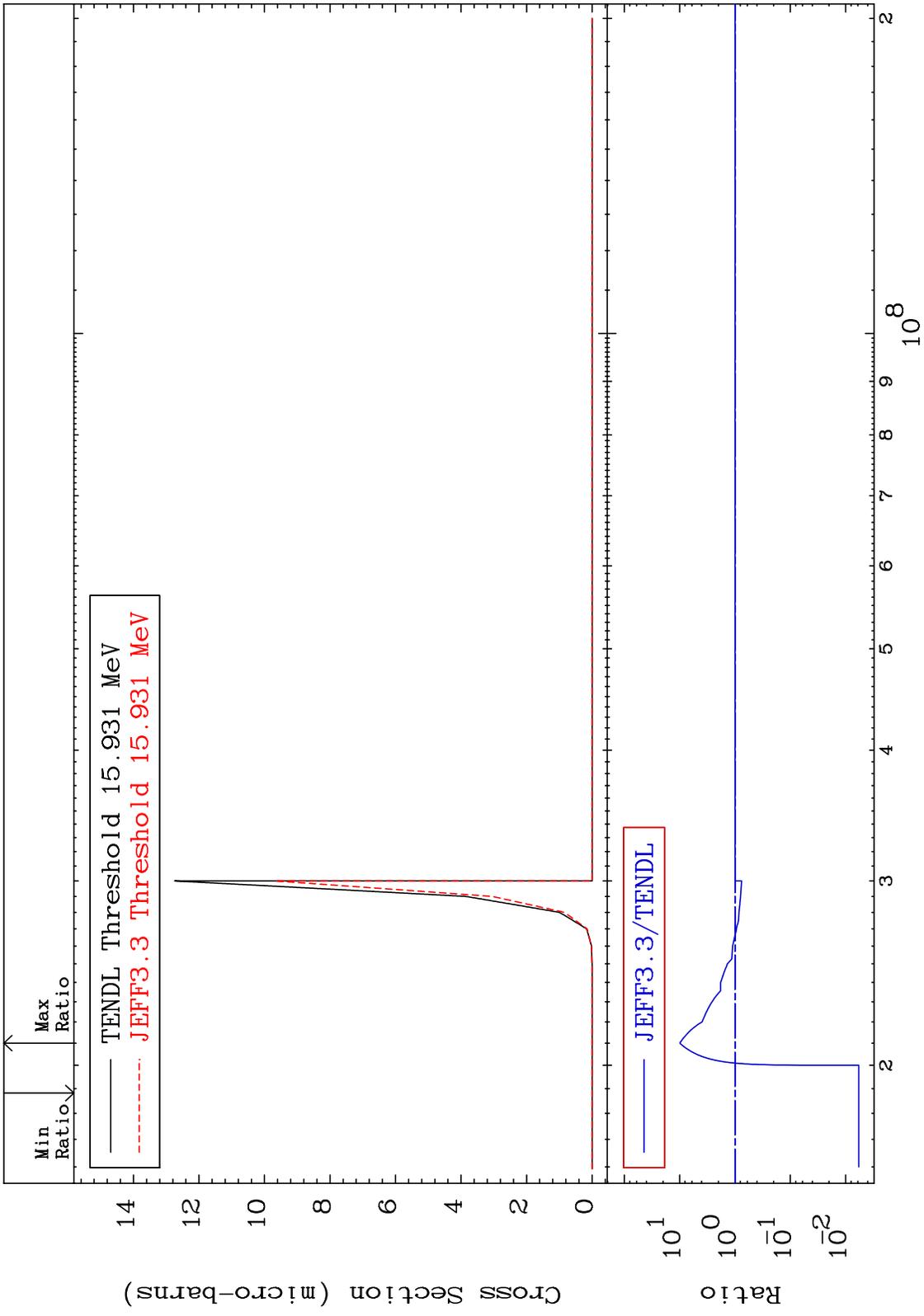
MAT 3434 (n,3n) p 34-Se-77
Cross Section -0.131 To 0.696 %



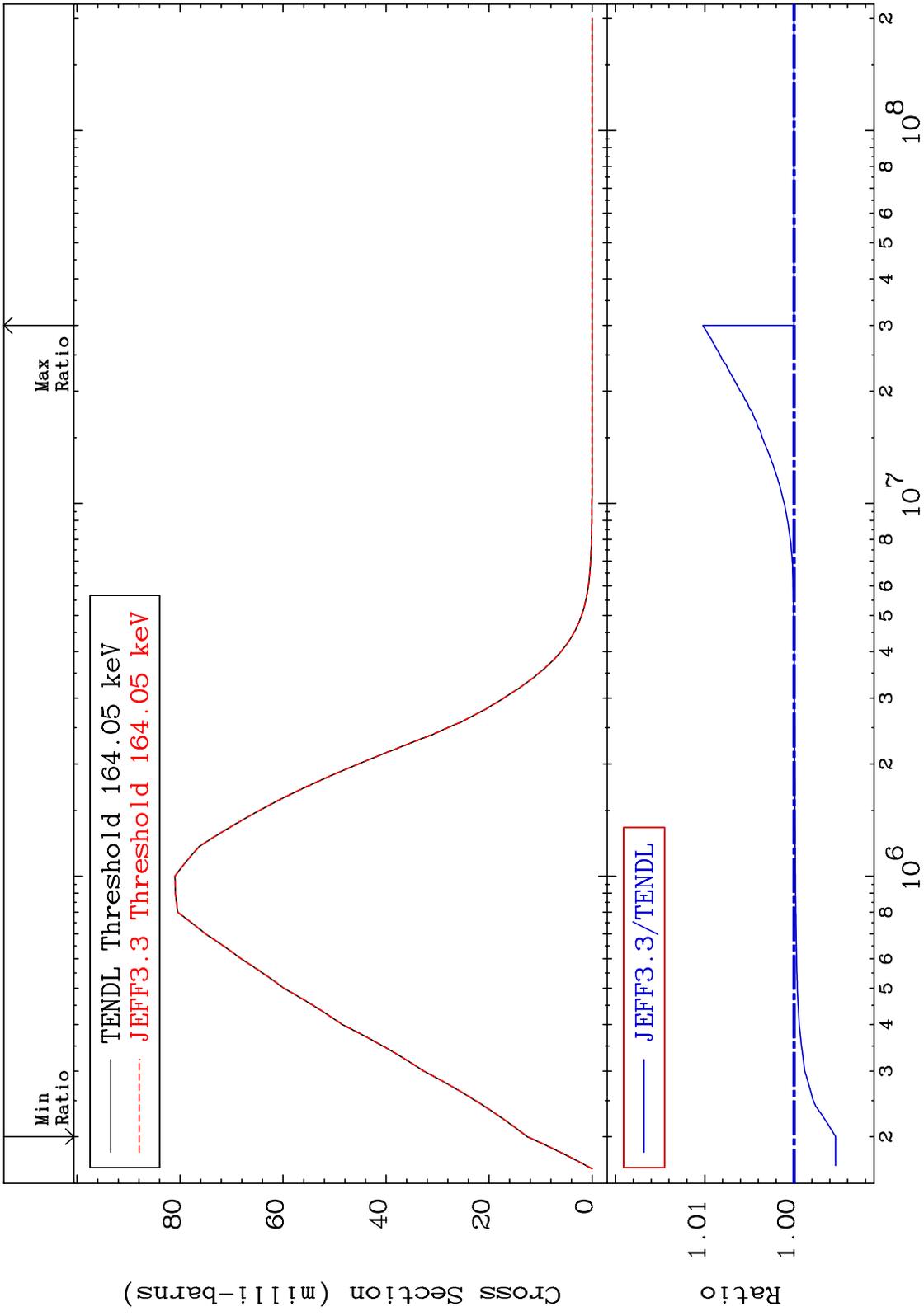
MAT 3434 (n,2n) p 34-Se-77
 Cross Section -0.004 To 0.742 %



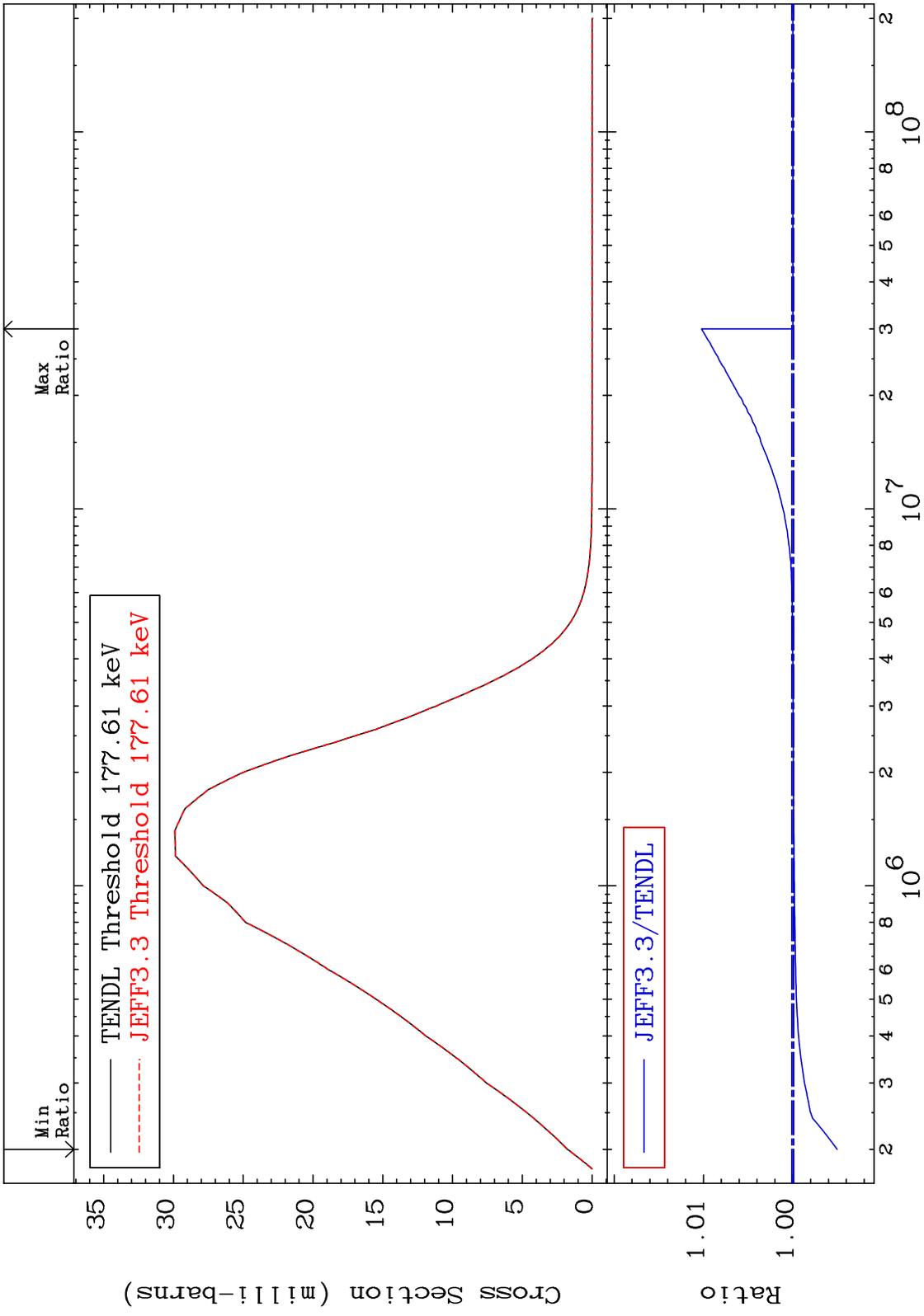
MAT 3434 (n,n') p α 34-Se-77
Cross Section -99.42 To 895.9 %



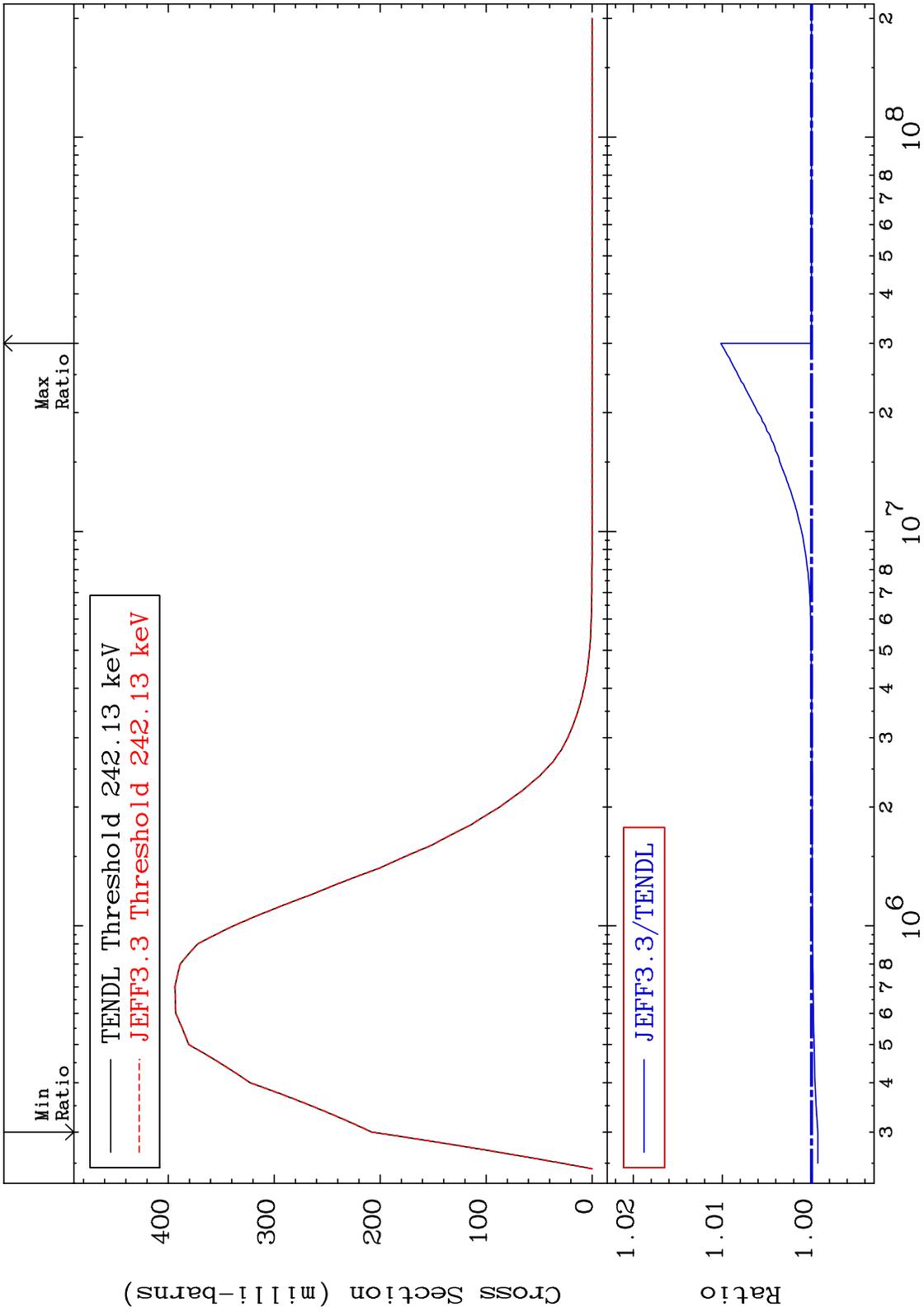
MAT 3434 MT= 51 (n,n') Level Cross Section 34-Se-77
 -0.466 To 1.021 %



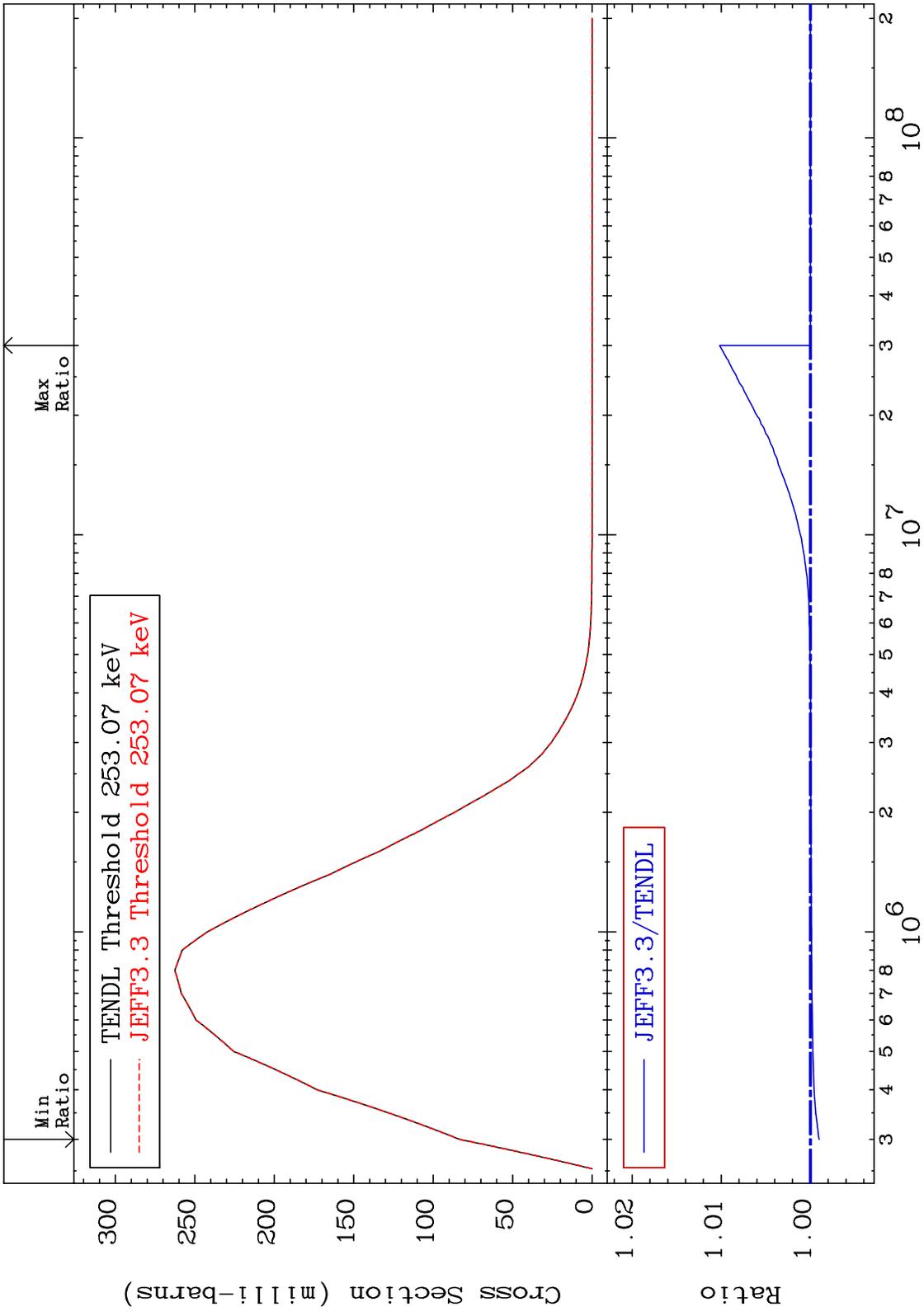
MAT 3434 MT= 52 (n,n') Level Cross Section 34-Se-77
 -0.496 To 1.022 %



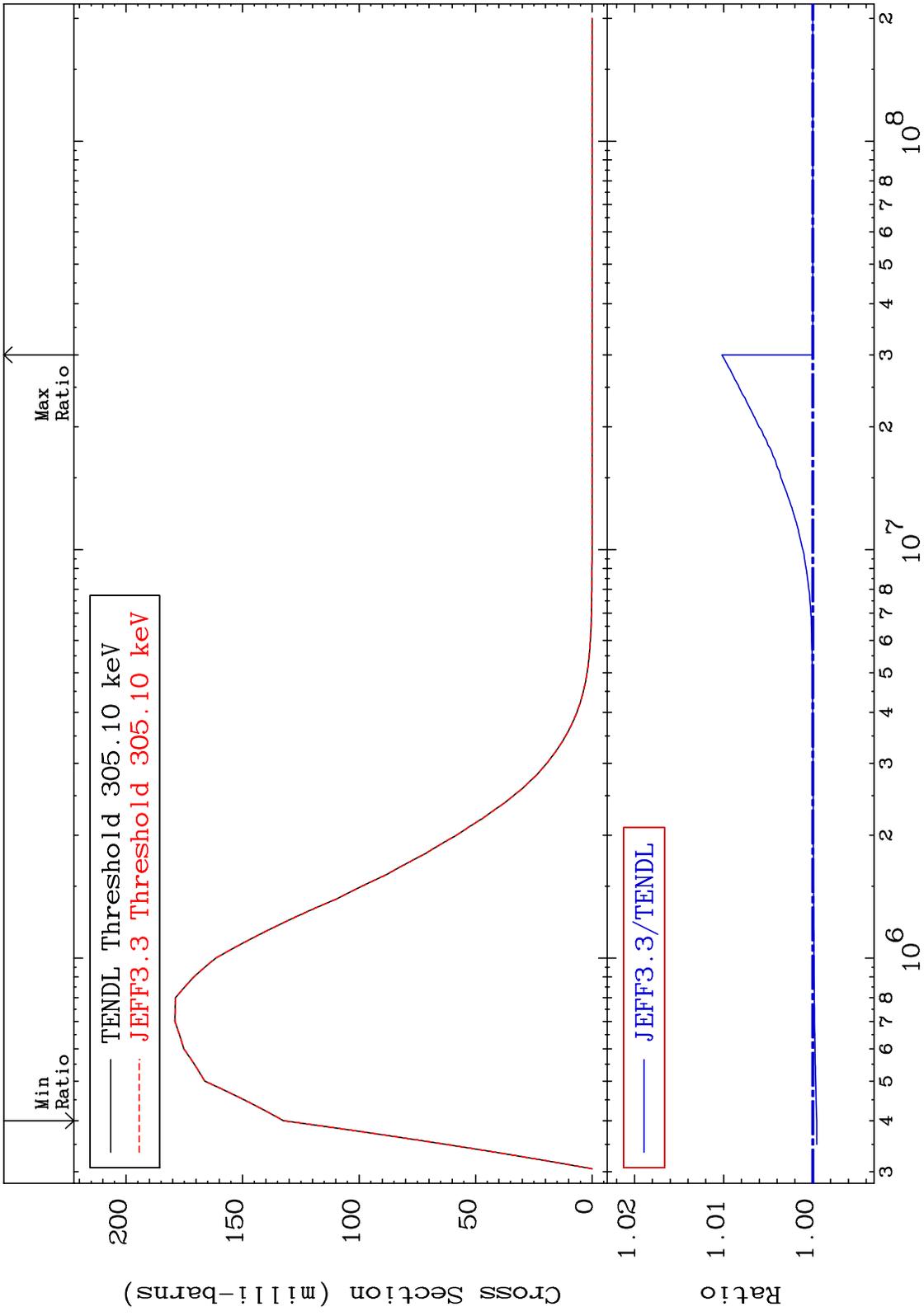
MAT 3434 MT= 53 (n,n') Level Cross Section 34-Se-77
 -0.070 To 1.019 %



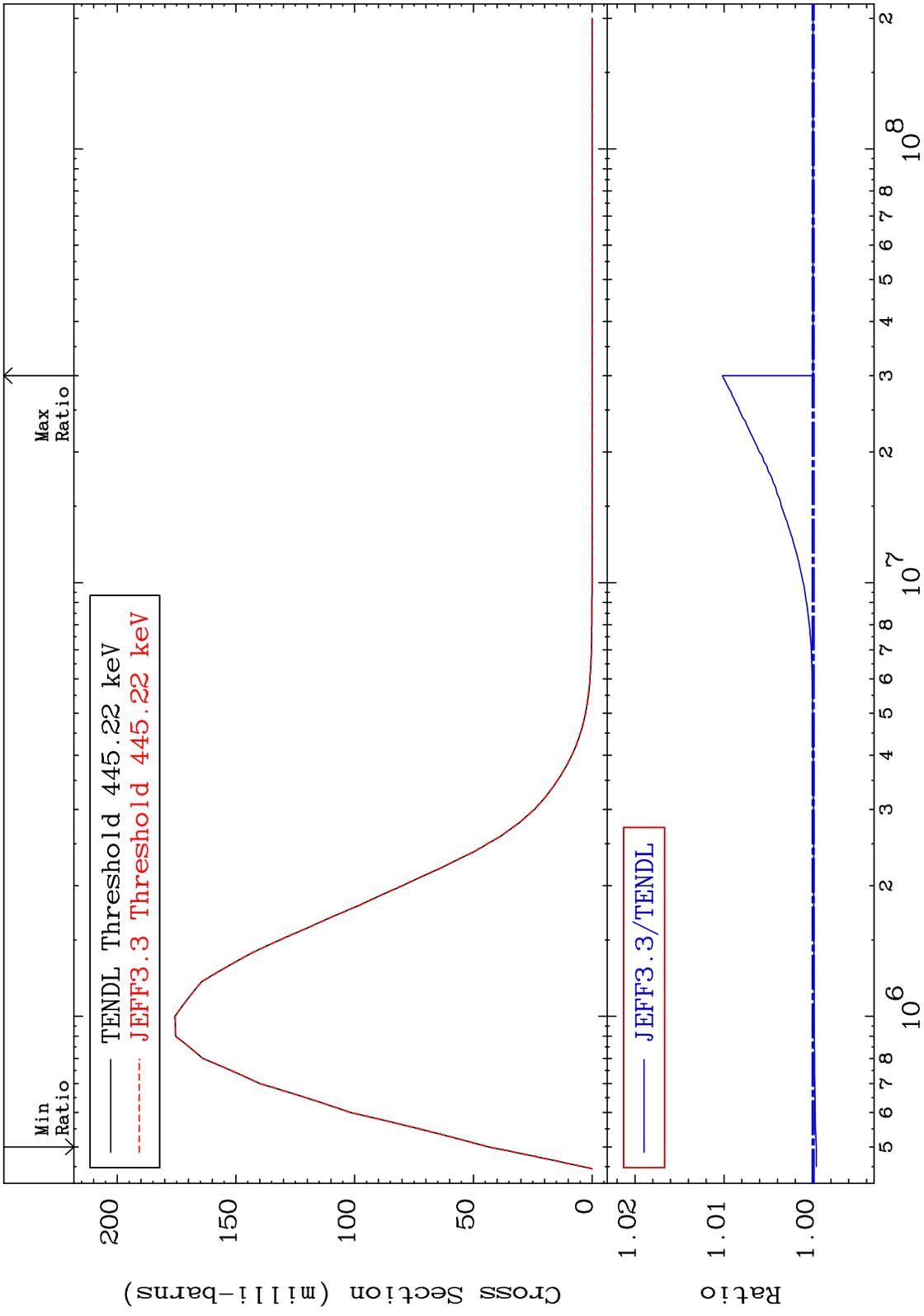
MAT 3434 MT= 54 (n,n') Level Cross Section 34-Se-77
 -0.098 To 1.019 %



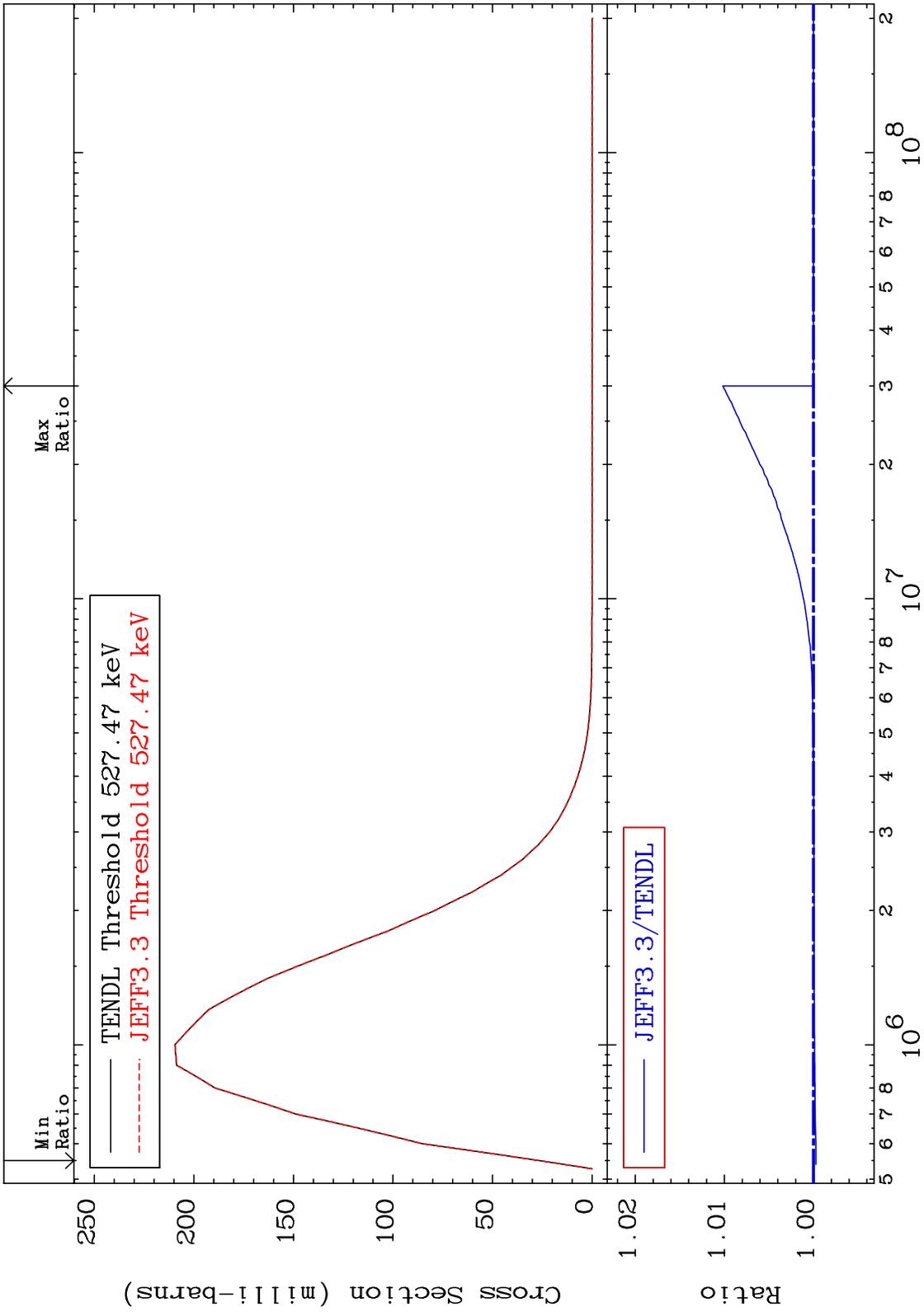
MAT 3434 MT= 55 (n,n') Level Cross Section -0.044 To 1.019 % 34-Se-77



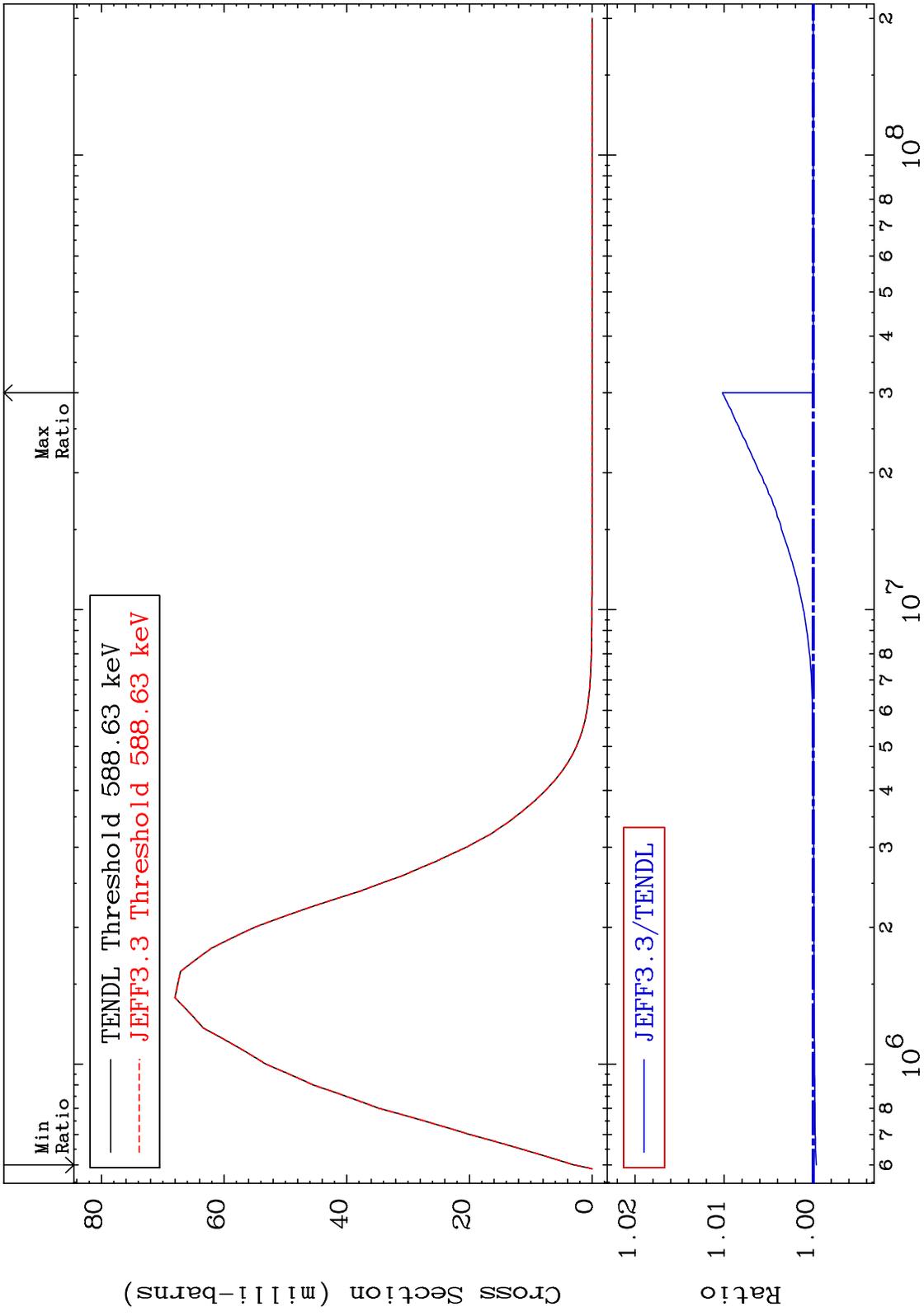
MAT 3434 MT= 56 (n,n') Level Cross Section 34-Se-77
 -0.035 To 1.019 %



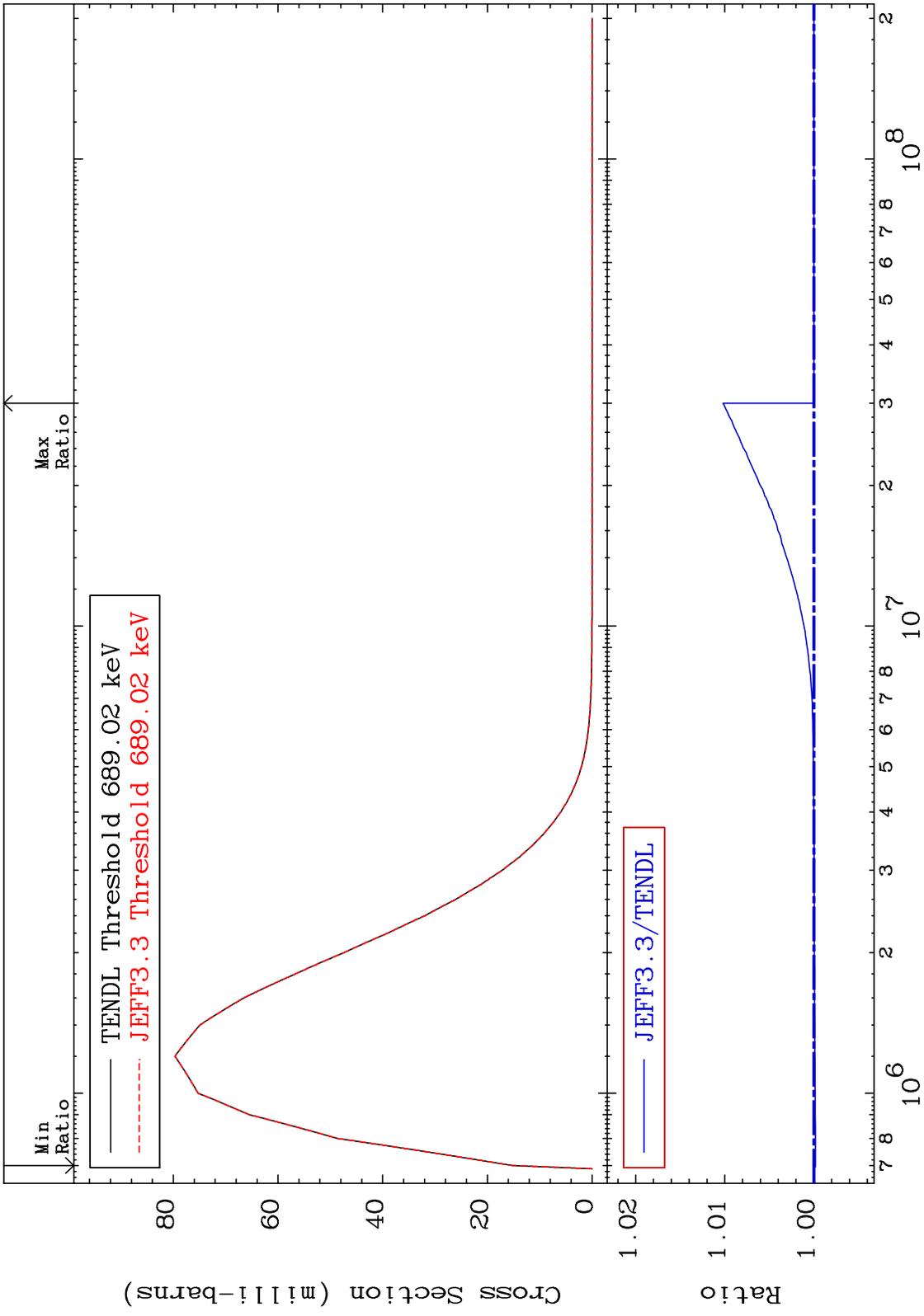
MAT 3434 MT= 57 (n,n') Level Cross Section 34-Se-77 -0.026 To 1.018 %



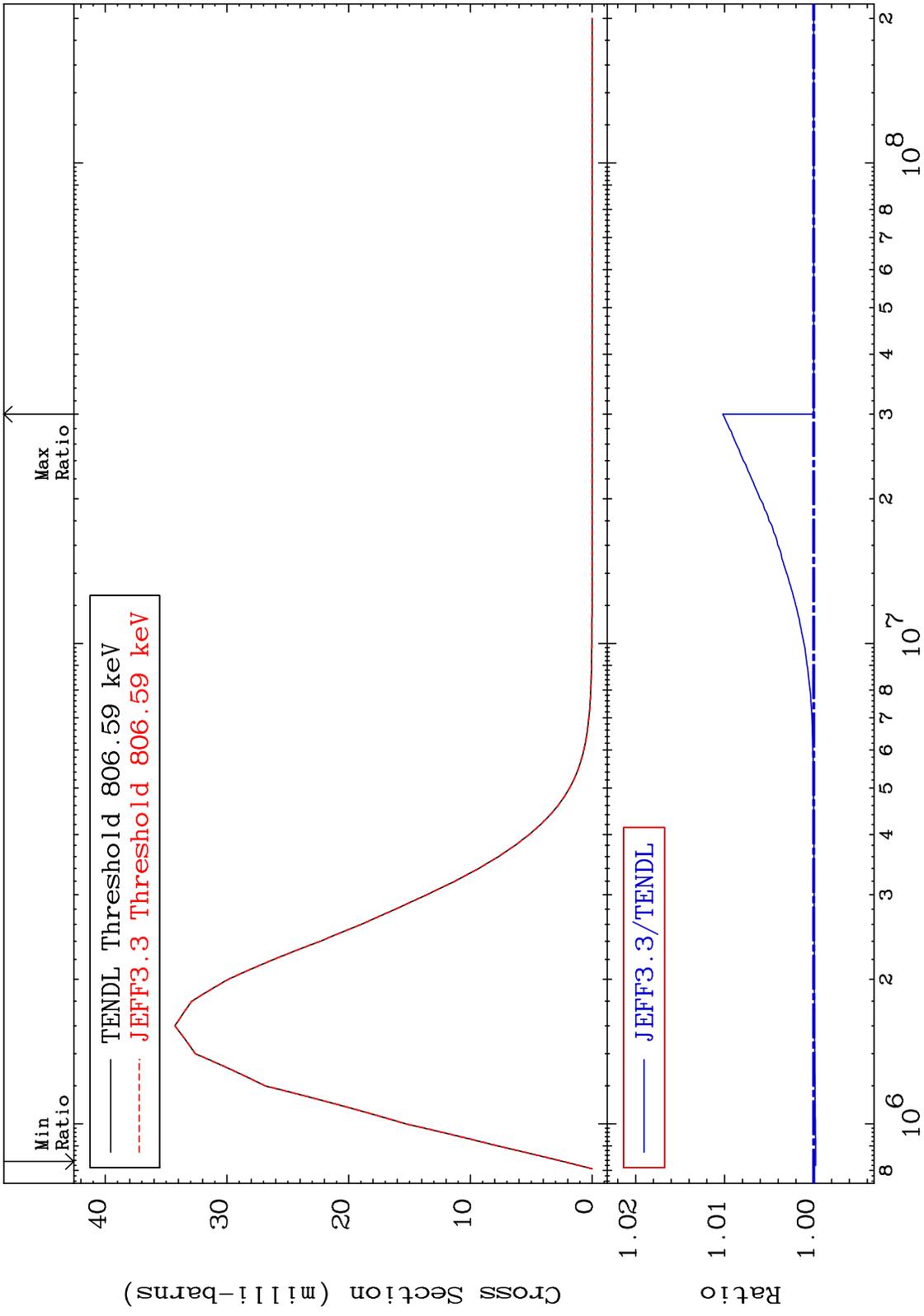
MAT 3434 MT= 58 (n,n') Level Cross Section 34-Se-77 -0.033 To 1.020 %



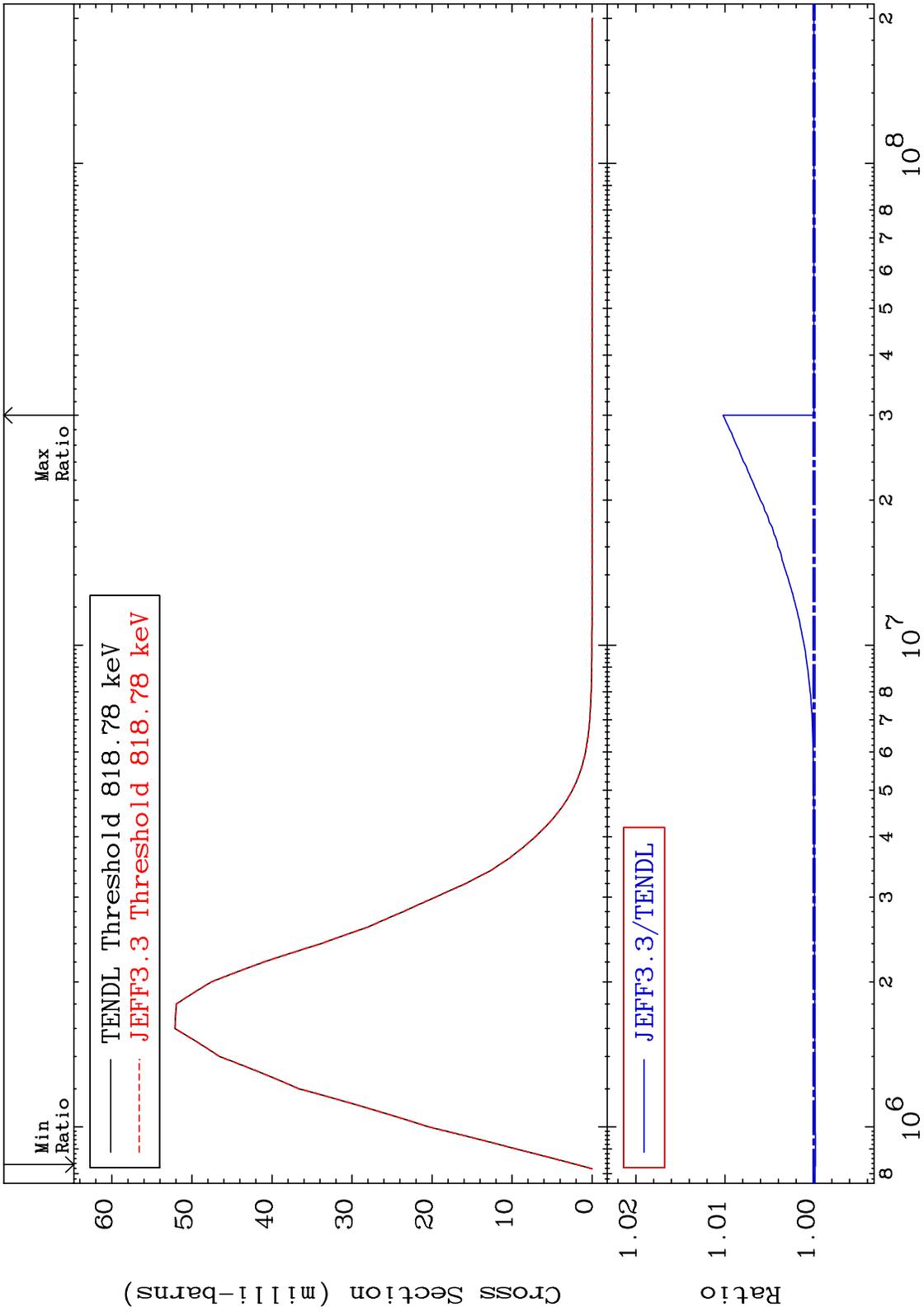
MAT 3434 MT= 59 (n,n') Level Cross Section 34-Se-77 -0.018 To 1.019 %



MAT 3434 MT= 60 (n,n') Level Cross Section 34-Se-77
 -0.022 To 1.020 %

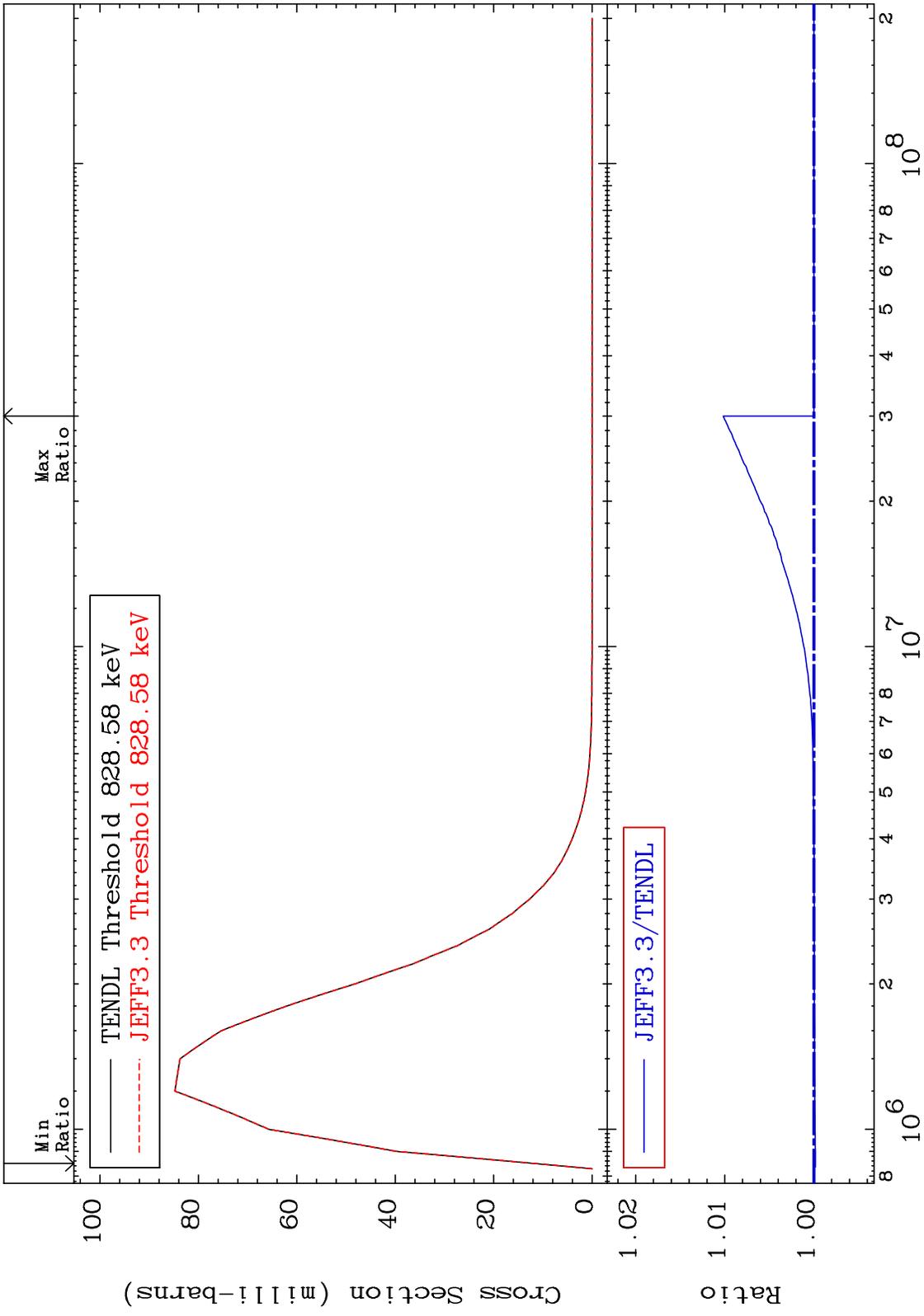


MAT 3434 MT= 61 (n,n') Level Cross Section 34-Se-77 -0.017 To 1.021 %

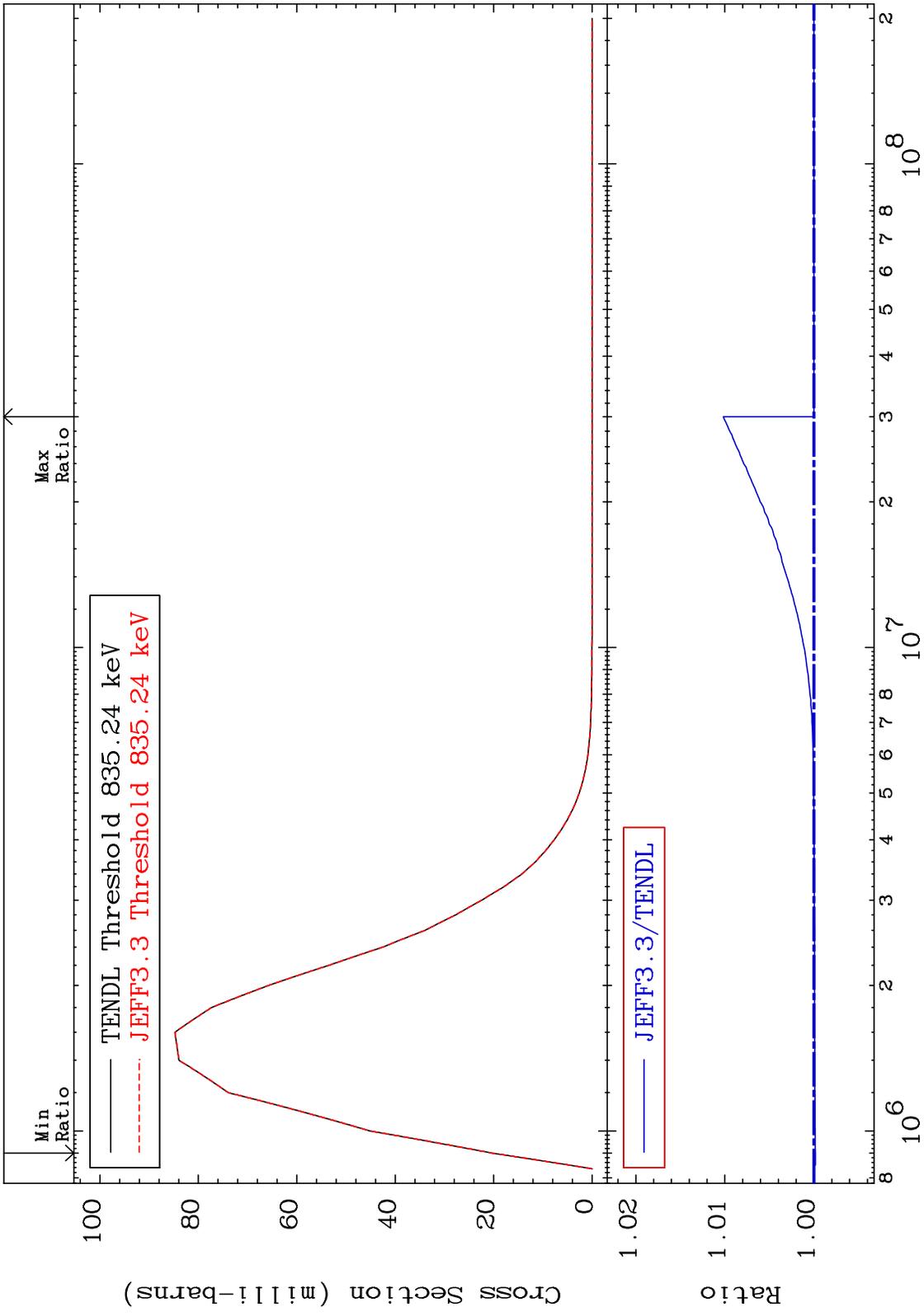


30 Incident Energy (eV) 34-Se-77

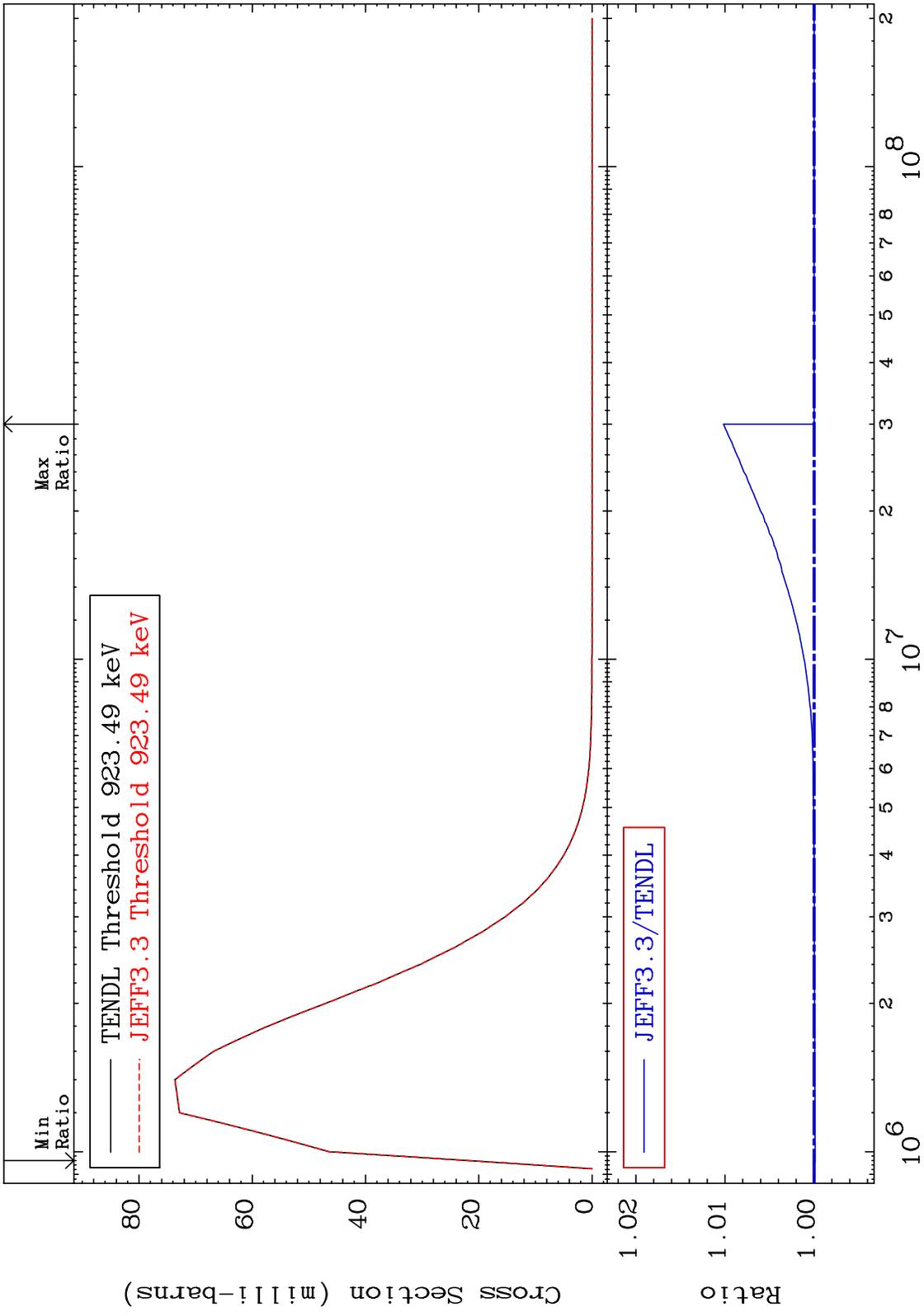
MAT 3434 MT= 62 (n,n') Level Cross Section 34-Se-77
 -0.017 To 1.018 %



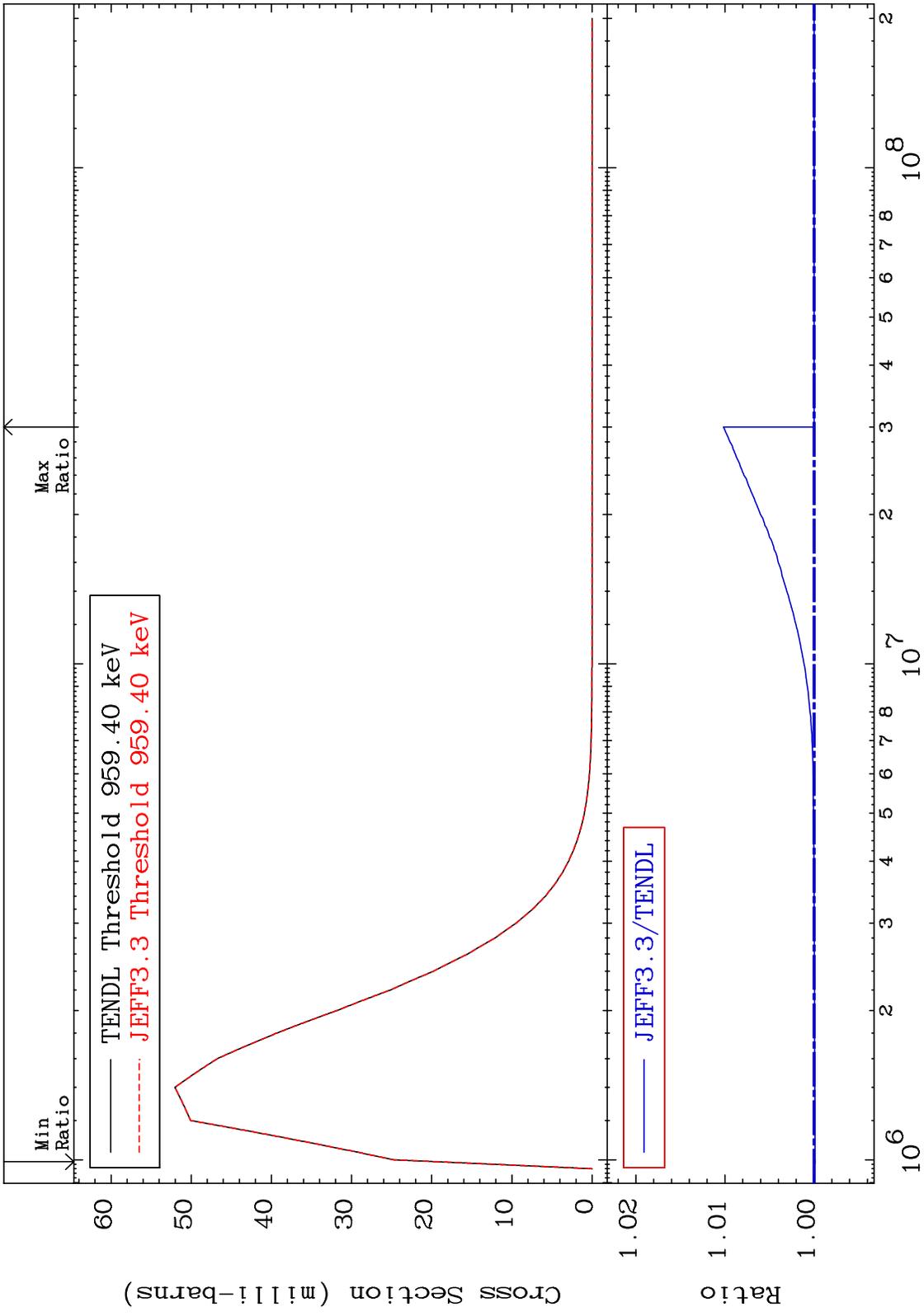
MAT 3434 MT= 63 (n,n') Level Cross Section 34-Se-77 -0.016 To 1.019 %



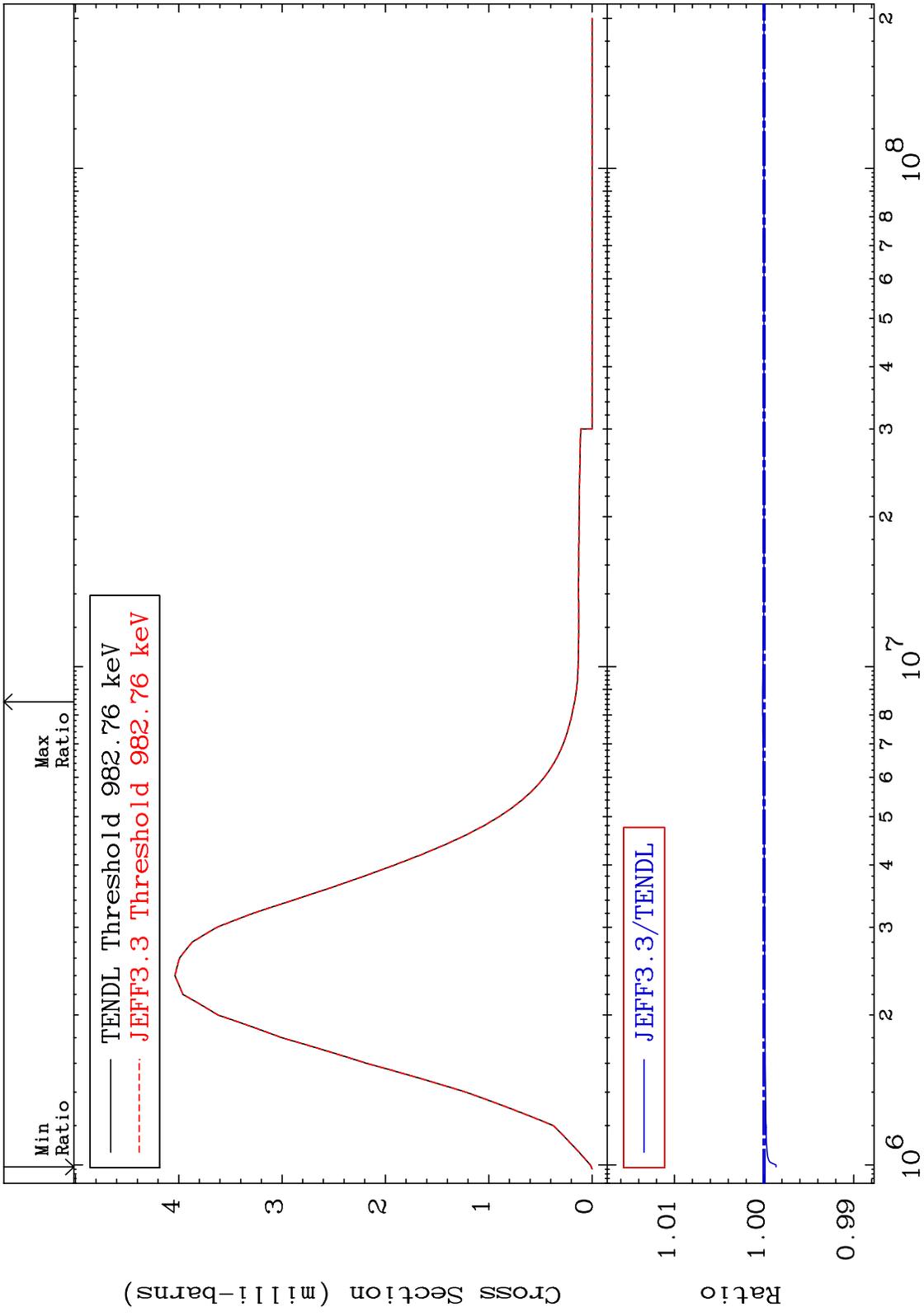
MAT 3434 MT= 64 (n,n') Level Cross Section 34-Se-77
 -0.012 To 1.018 %



MAT 3434 MT= 65 (n,n') Level Cross Section 34-Se-77
 -0.012 To 1.017 %



MAT 3434 MT= 66 (n,n') Level Cross Section 34-Se-77
-0.132 To 0.016 %

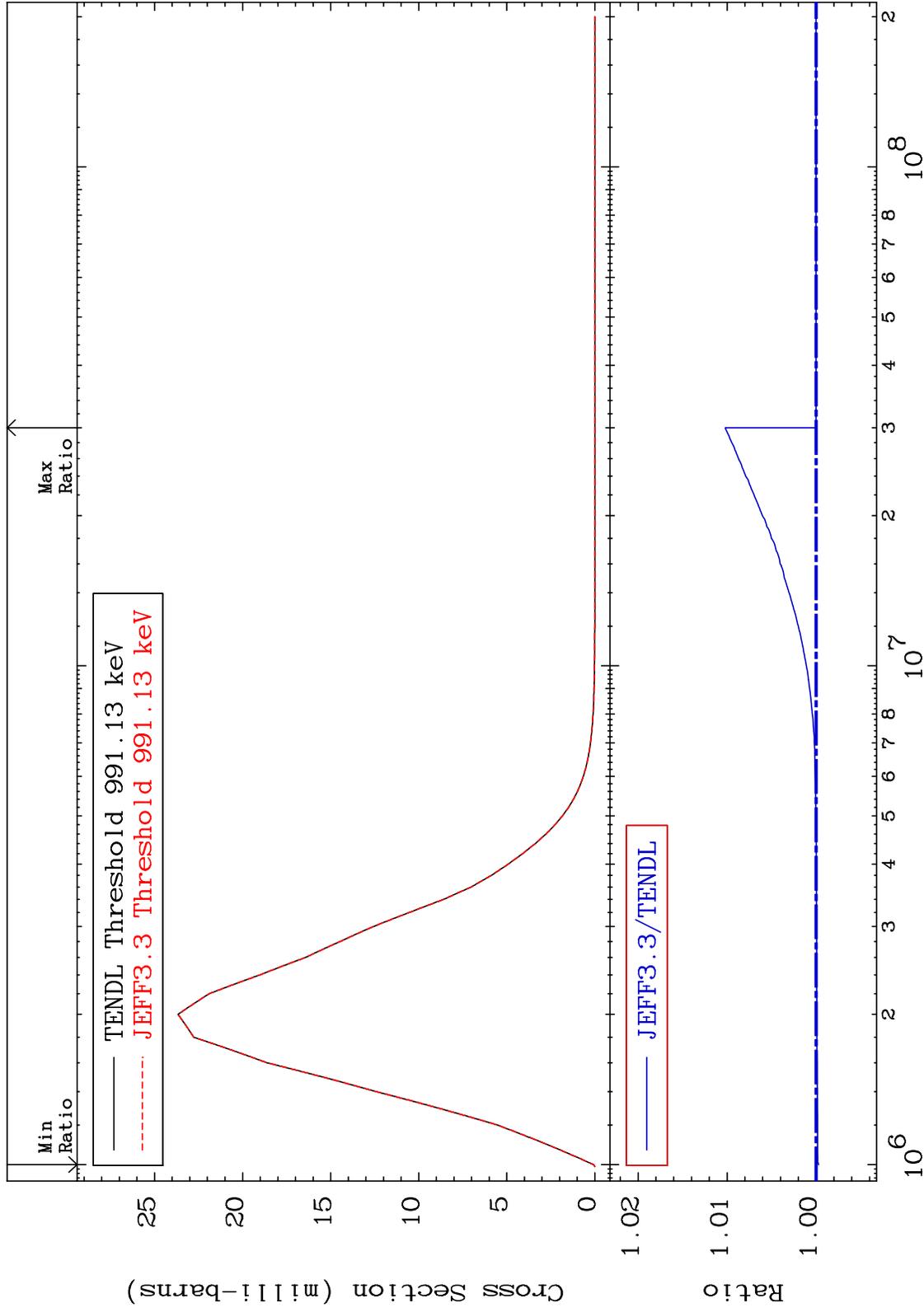


35 34-Se-77

MAT 3434

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

34-Se-77
-0.028 To 1.022 %

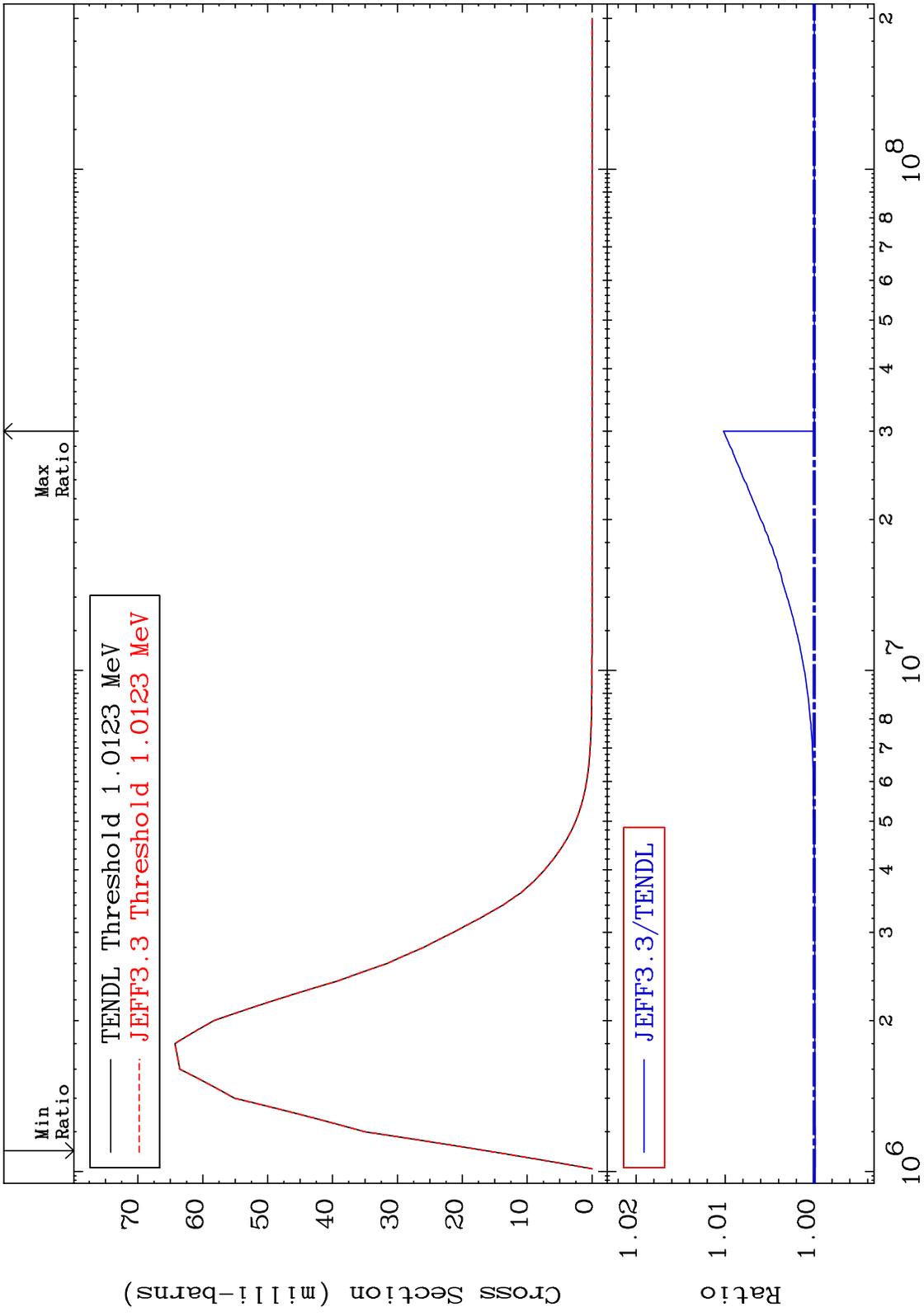


36

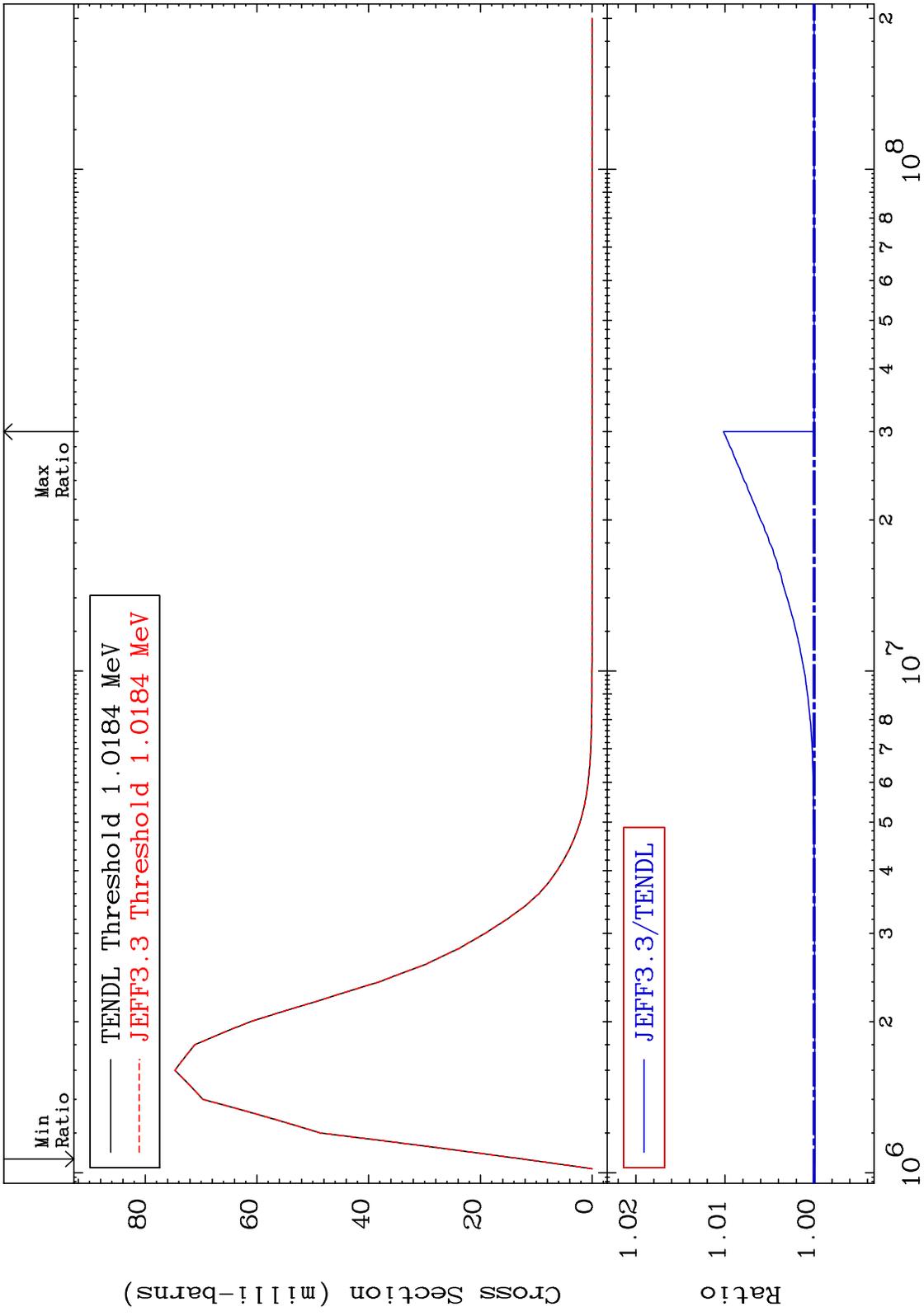
34-Se-77

34-Se-77

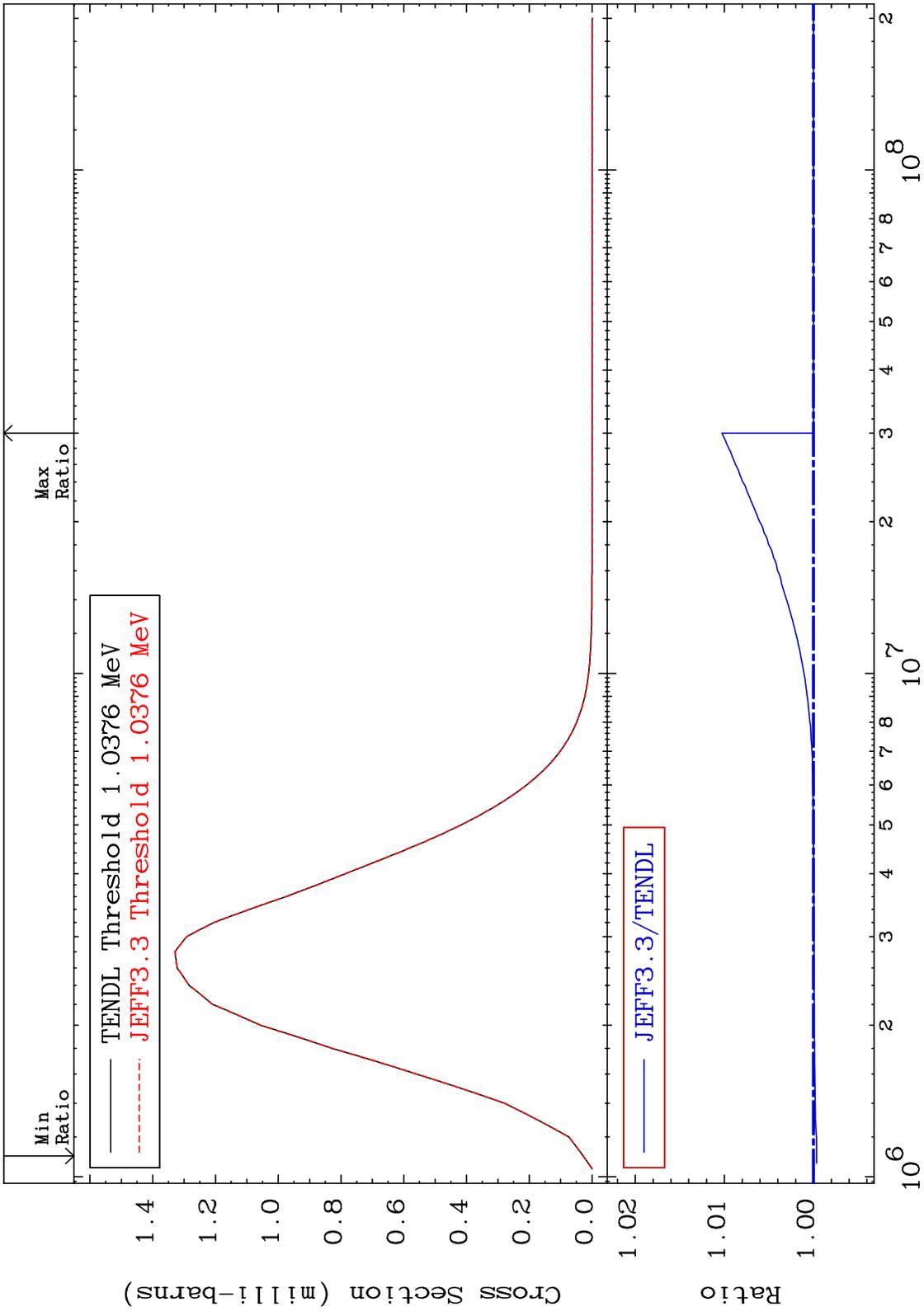
MAT 3434 MT= 68 (n,n') Level Cross Section -0.010 To 1.019 % 34-Se-77



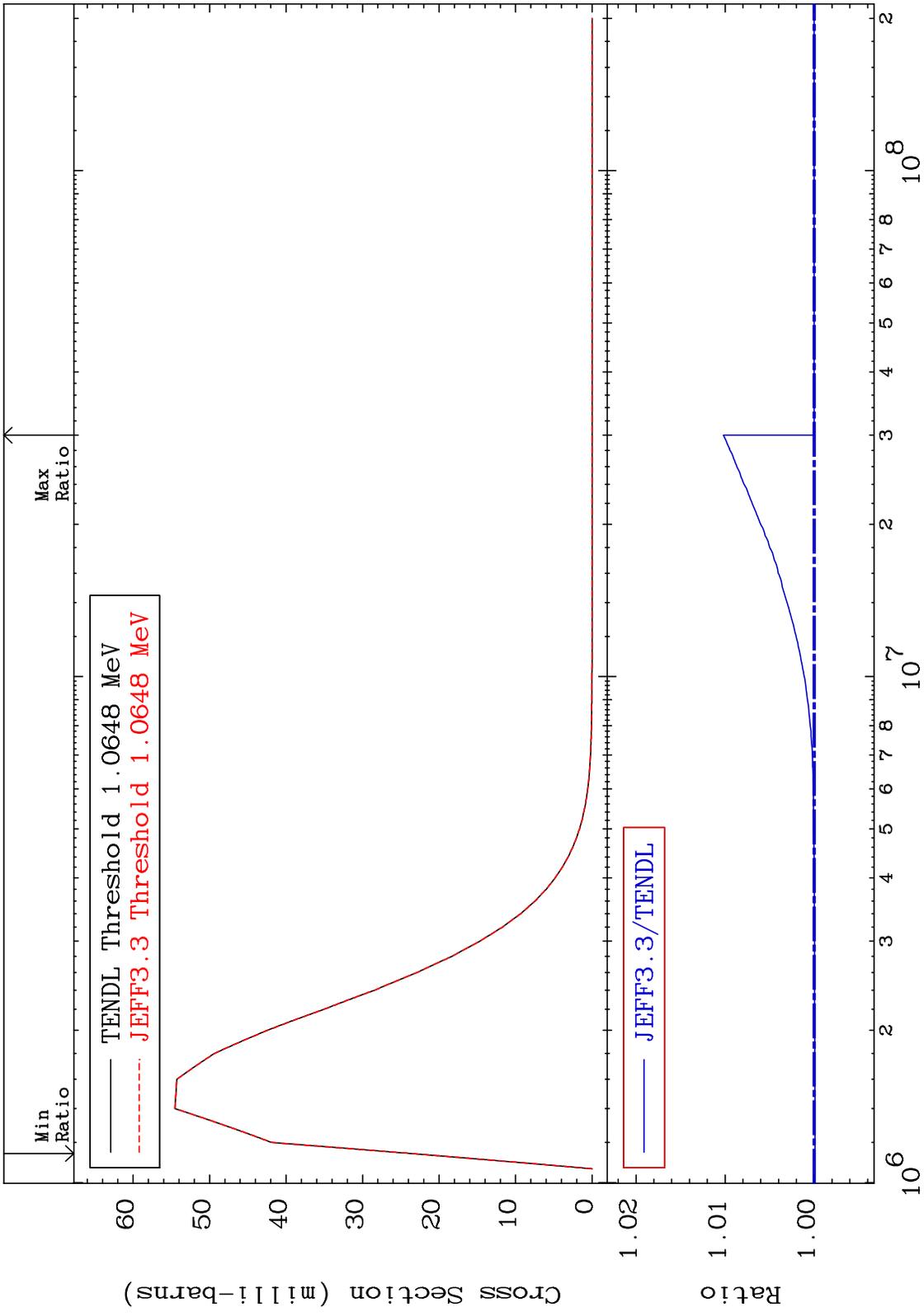
MAT 3434 MT= 69 (n,n') Level Cross Section -0.010 To 1.017 % 34-Se-77



MAT 3434 MT= 70 (n,n') Level Cross Section 34-Se-77
 -0.034 To 1.027 %

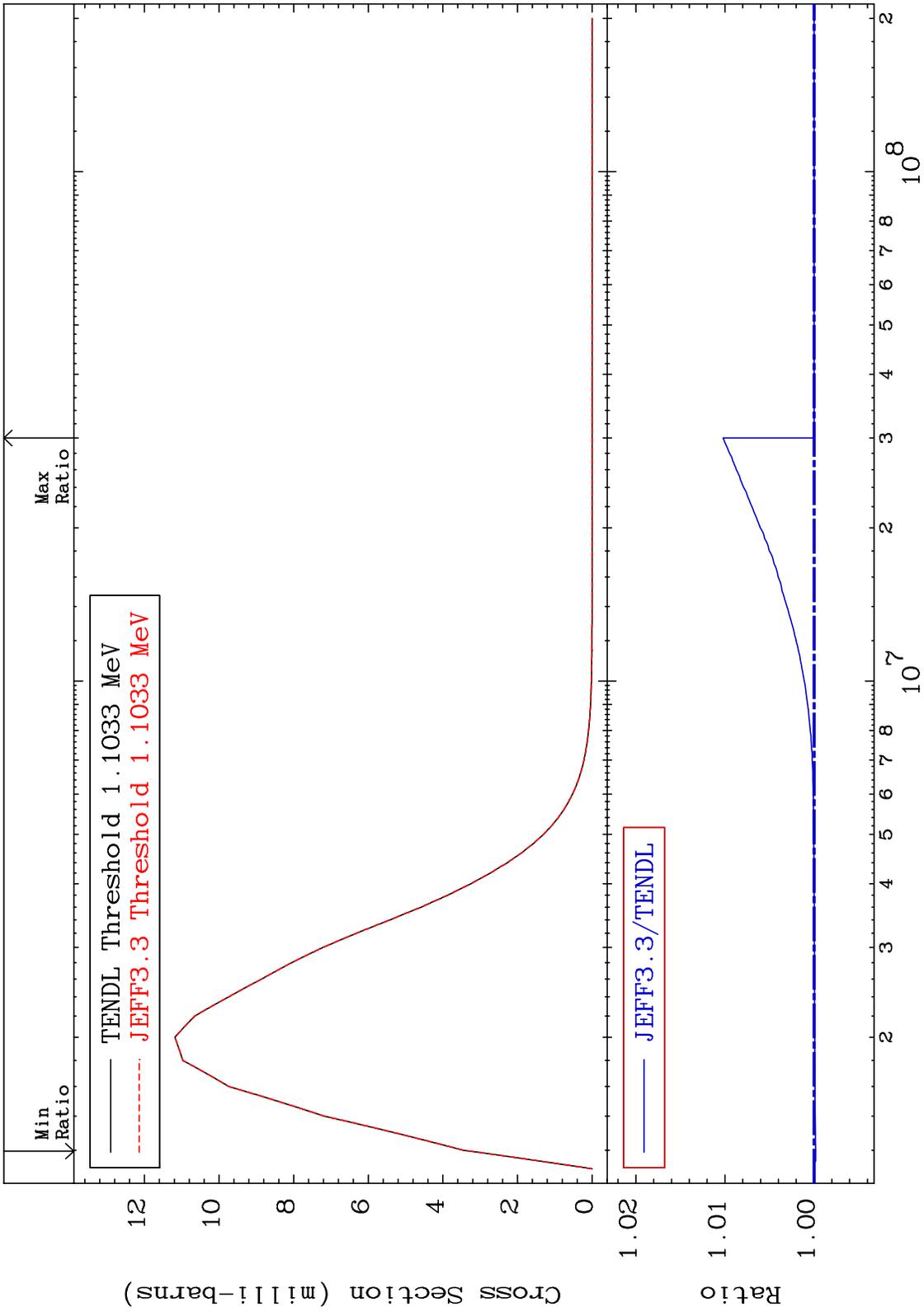


MAT 3434 MT= 71 (n,n') Level Cross Section -0.010 To 1.018 % 34-Se-77

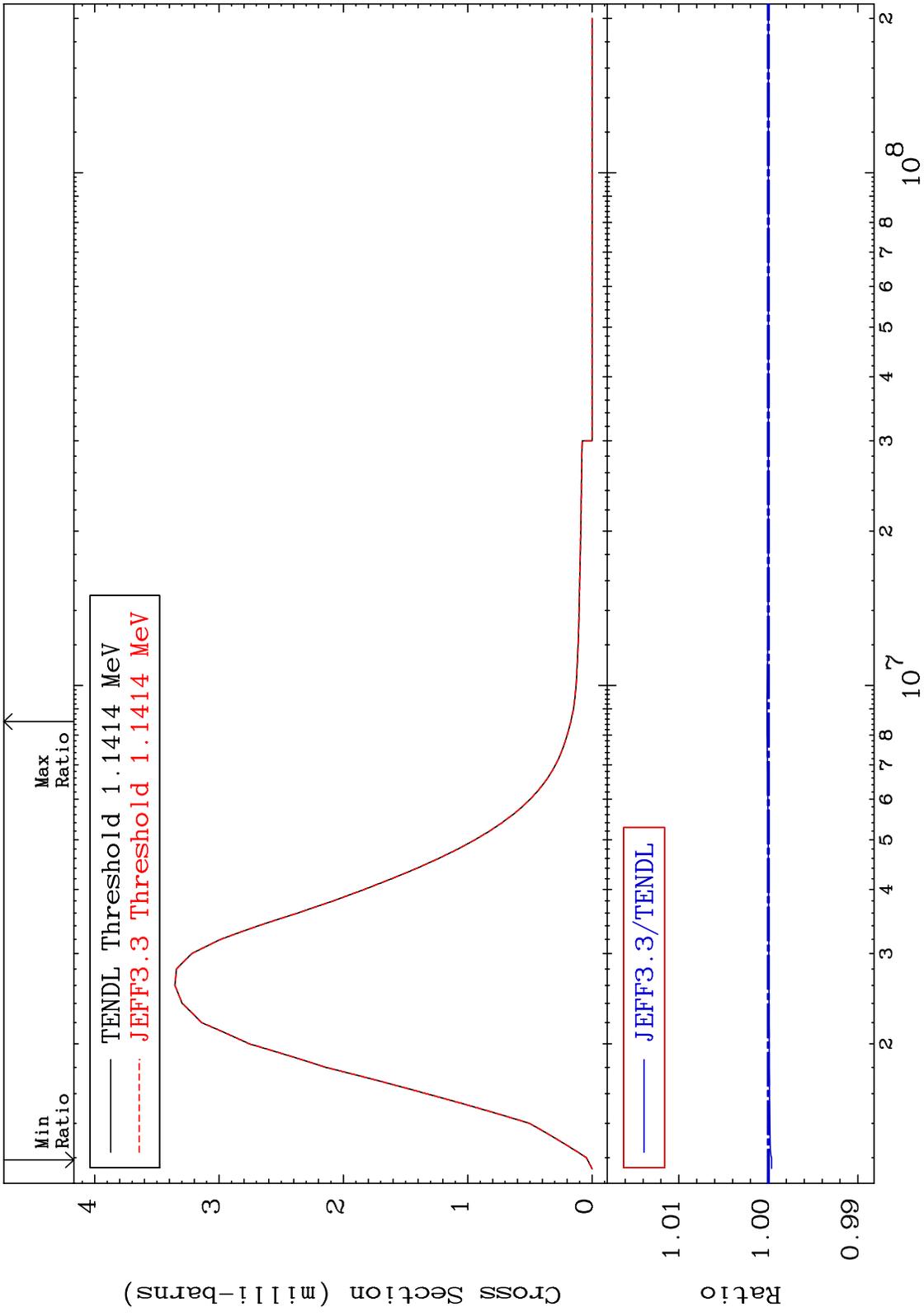


34-Se-77

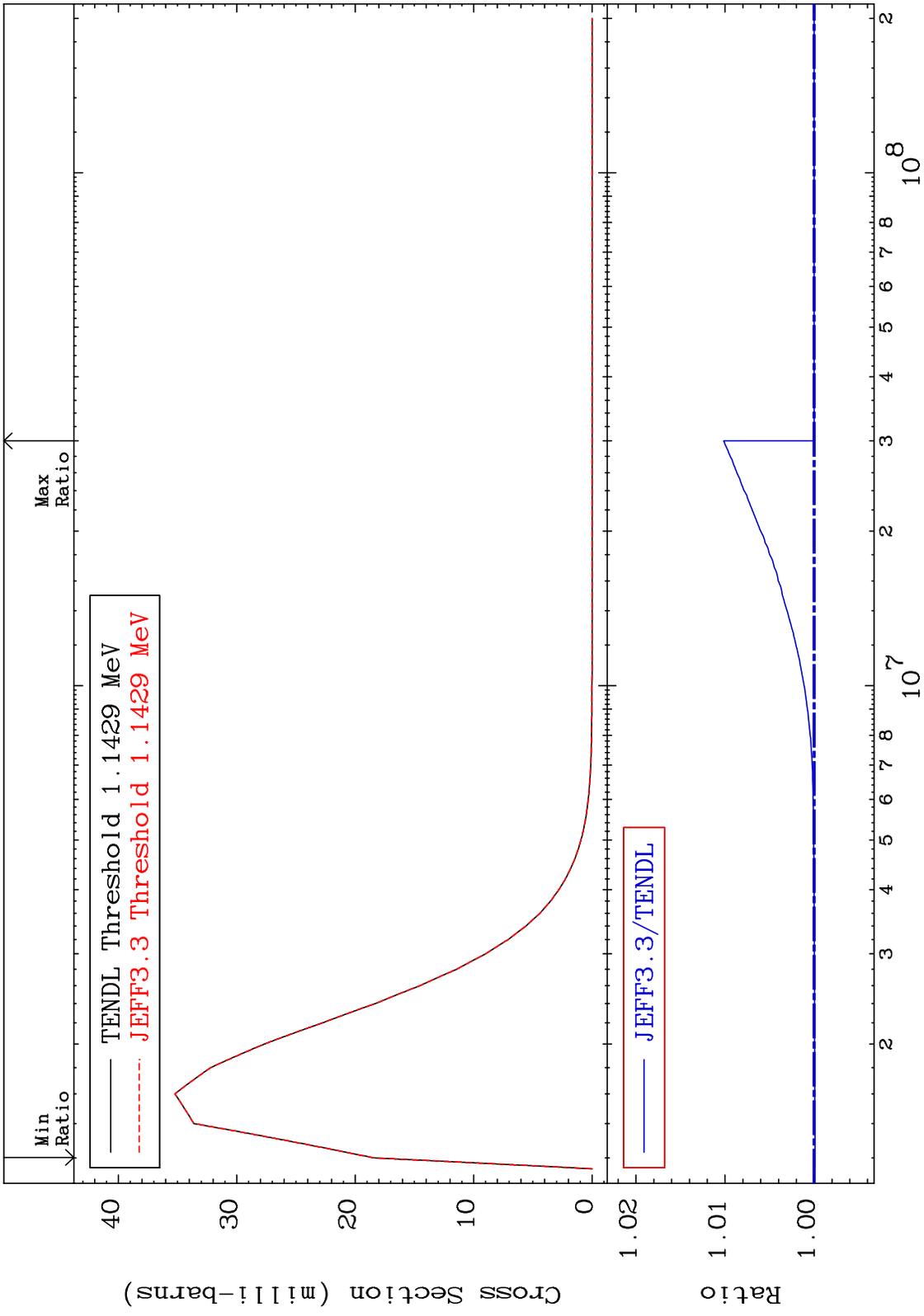
MAT 3434 MT= 72 (n,n') Level Cross Section -0.017 To 1.022 % 34-Se-77



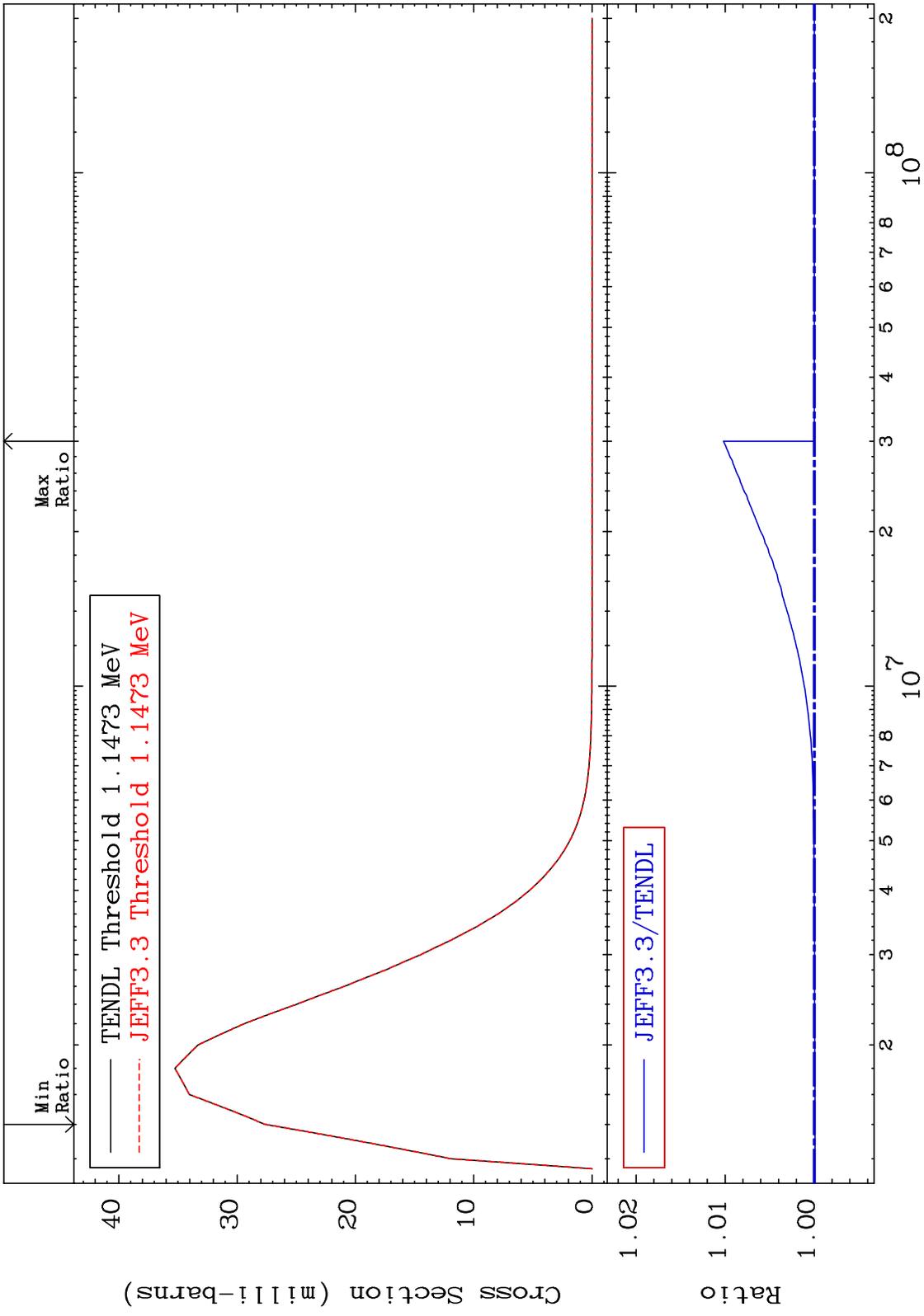
MAT 3434 MT= 73 (n,n') Level Cross Section 34-Se-77
 -0.036 To 0.016 %



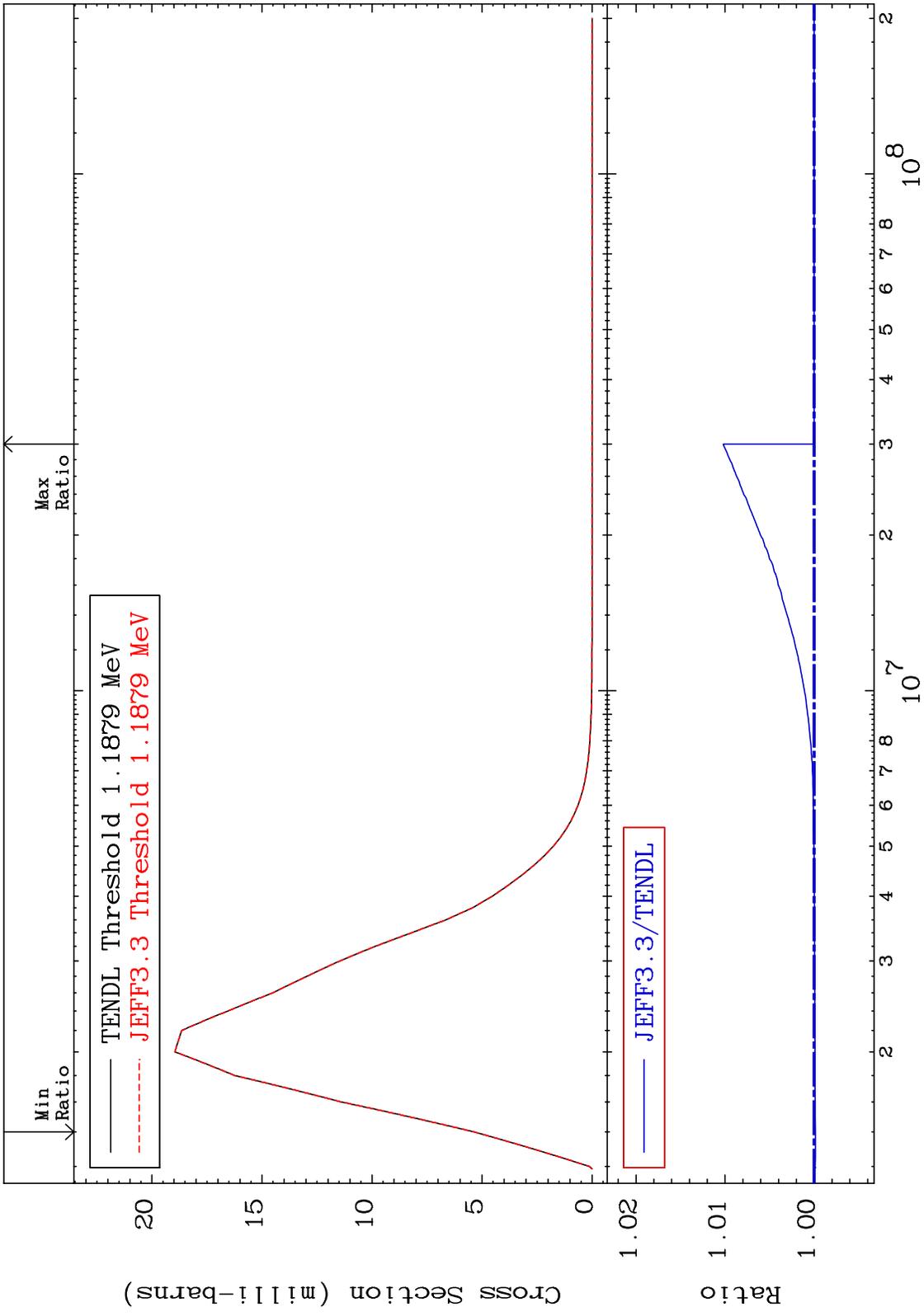
MAT 3434 MT= 74 (n,n') Level Cross Section 34-Se-77
 -0.009 To 1.016 %



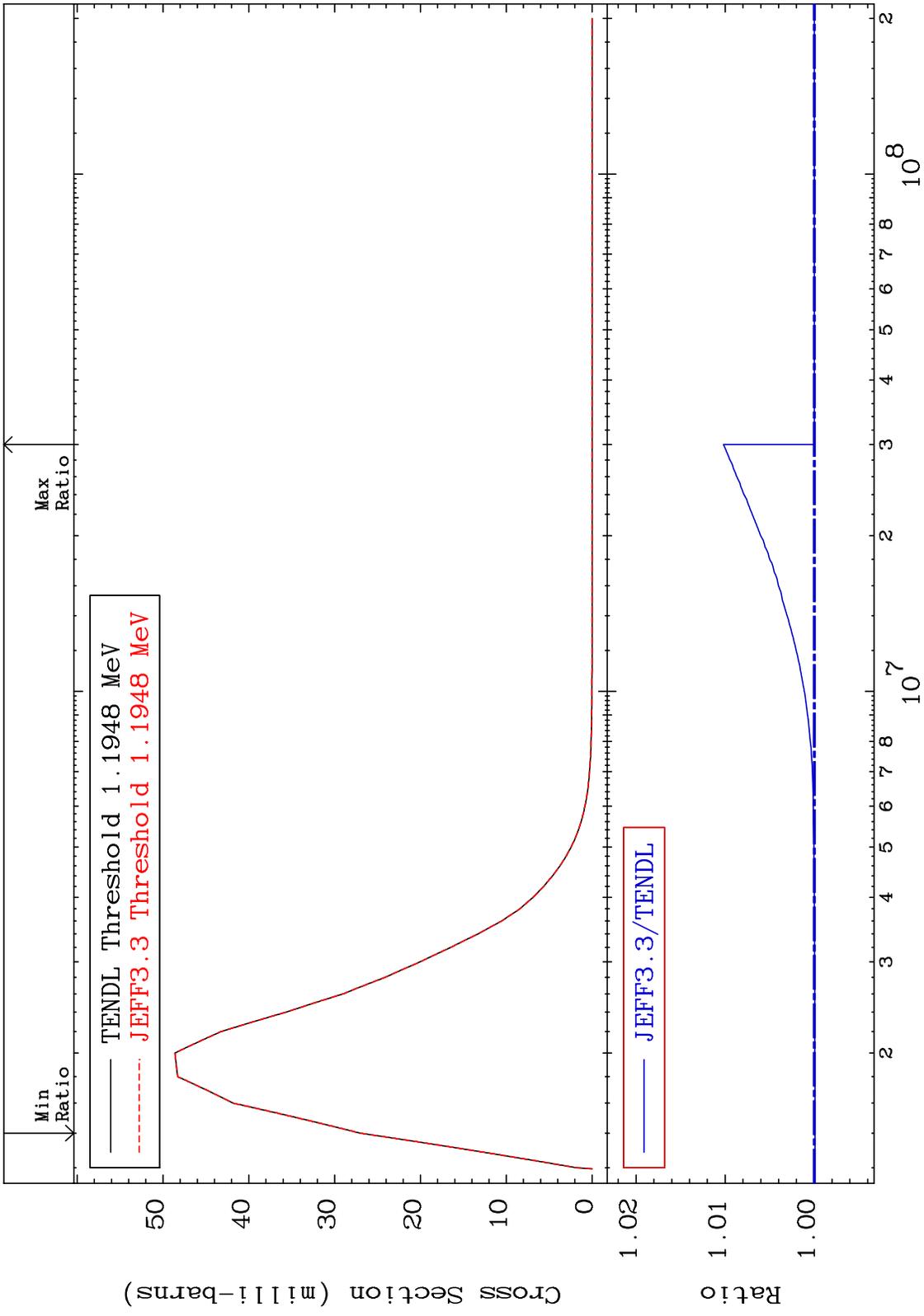
MAT 3434 MT= 75 (n,n') Level Cross Section 34-Se-77
 -0.009 To 1.019 %



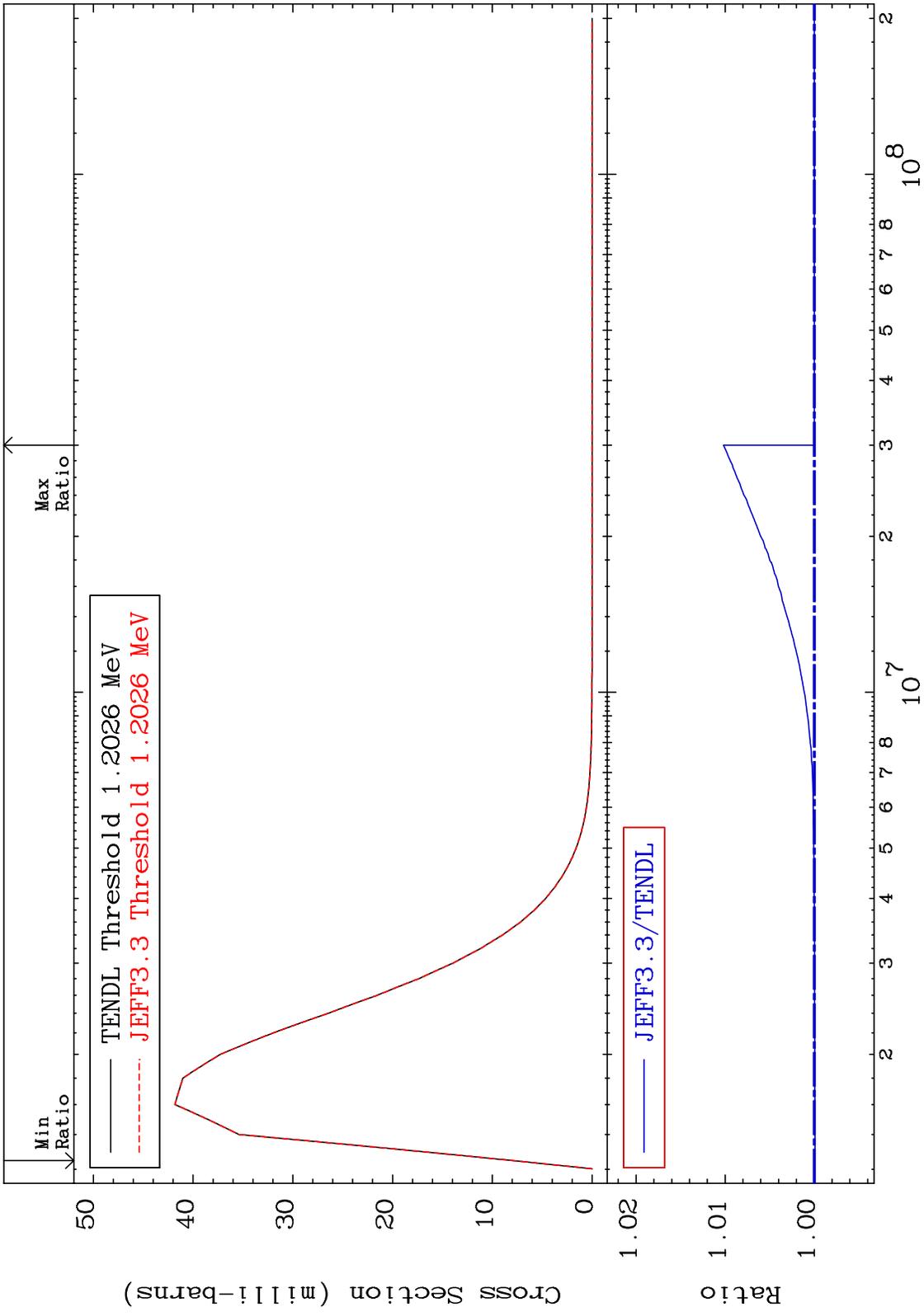
MAT 3434 MT= 76 (n,n') Level Cross Section -0.014 To 1.022 % 34-Se-77



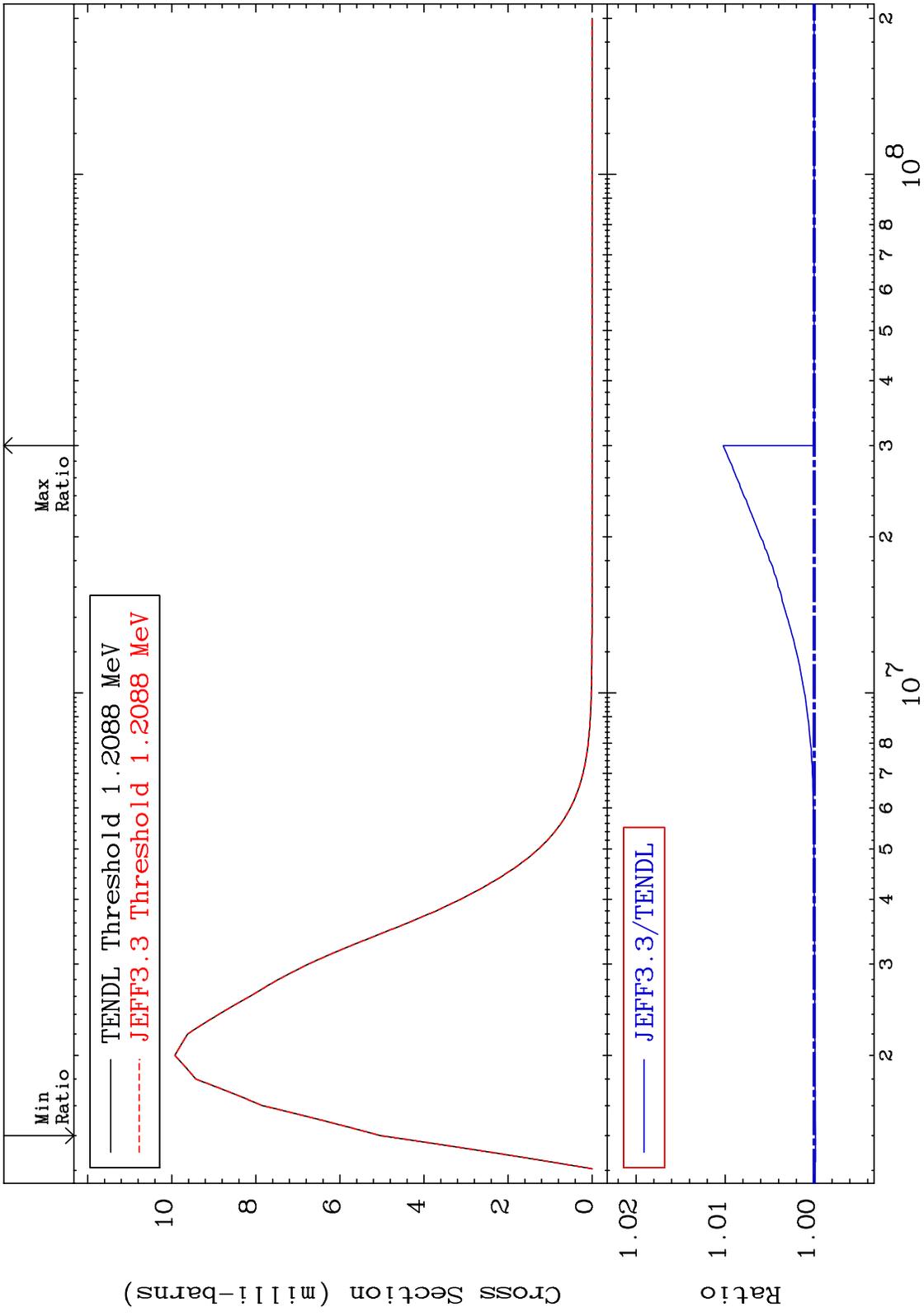
MAT 3434 MT= 77 (n,n') Level Cross Section 34-Se-77 -0.009 To 1.019 %



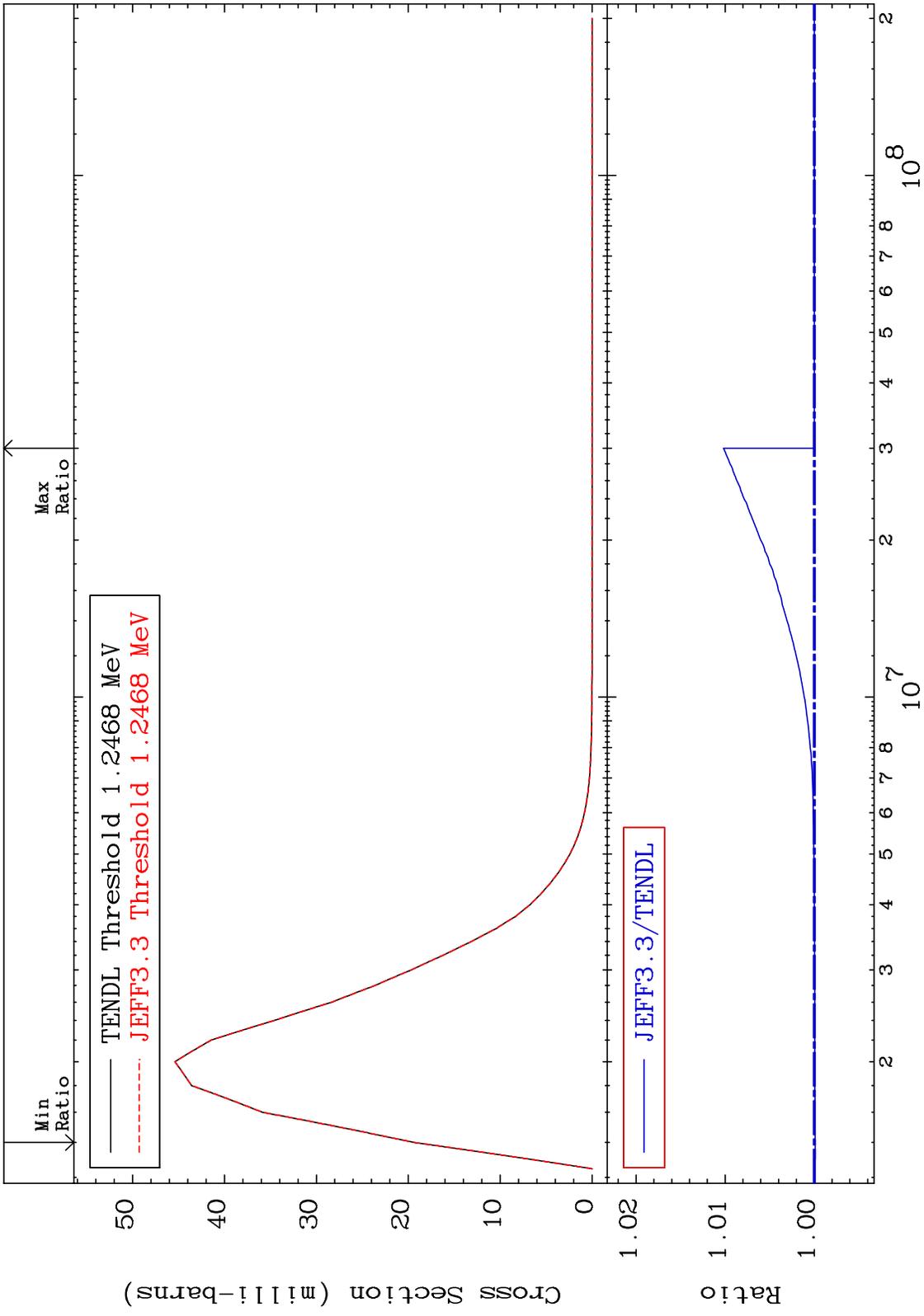
MAT 3434 MT= 78 (n,n') Level Cross Section -0.008 To 1.018 % 34-Se-77



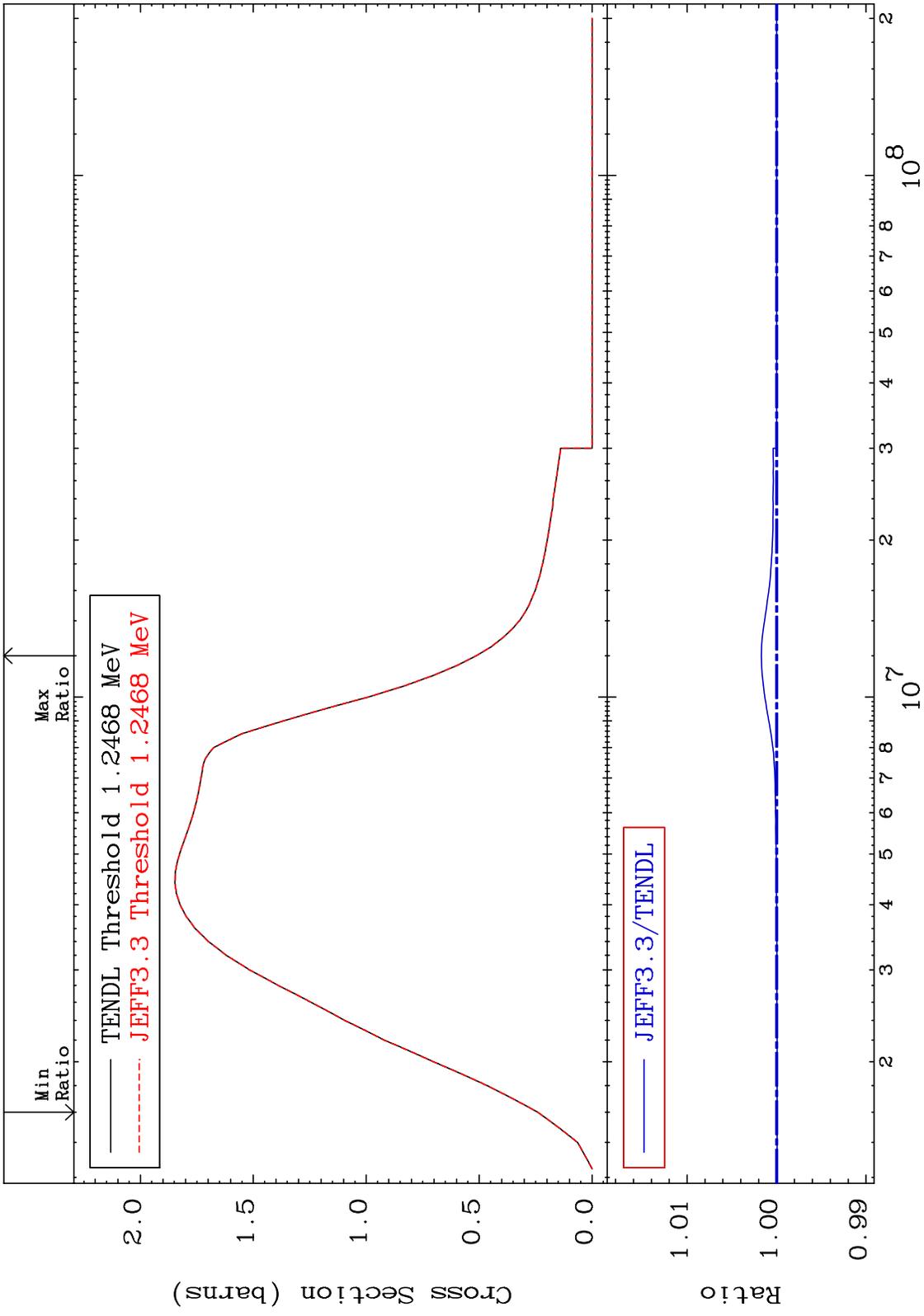
MAT 3434 MT= 79 (n,n') Level Cross Section -0.014 To 1.022 % 34-Se-77



MAT 3434 MT= 80 (n,n') Level Cross Section -0.010 To 1.019 % 34-Se-77



MAT 3434 (n, n') Continuum Cross Section 34-Se-77 -0.006 To 0.169 %



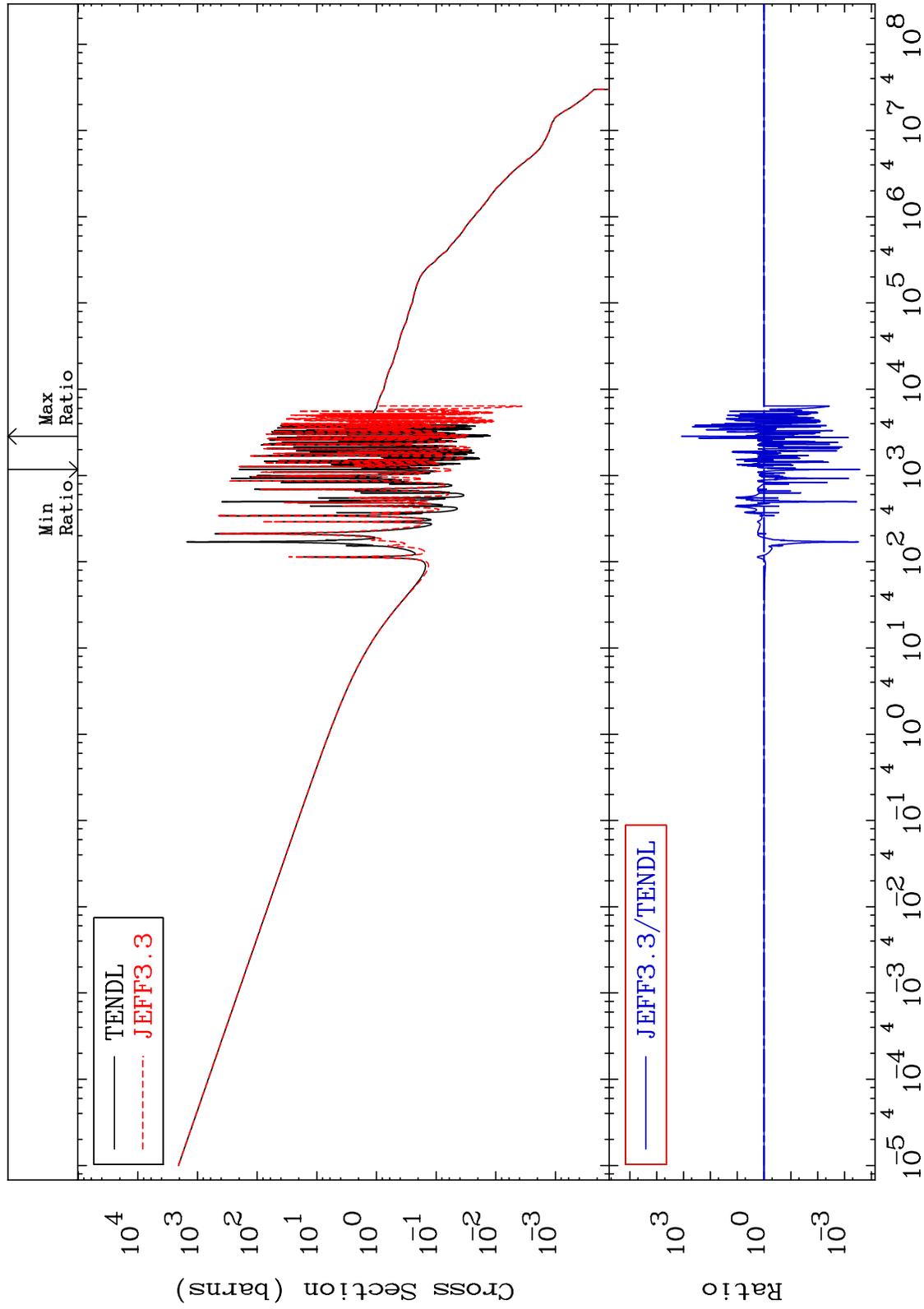
MAT 3434

(n, γ)

34-Se-77

Cross Section

-99.97 To 9999. %

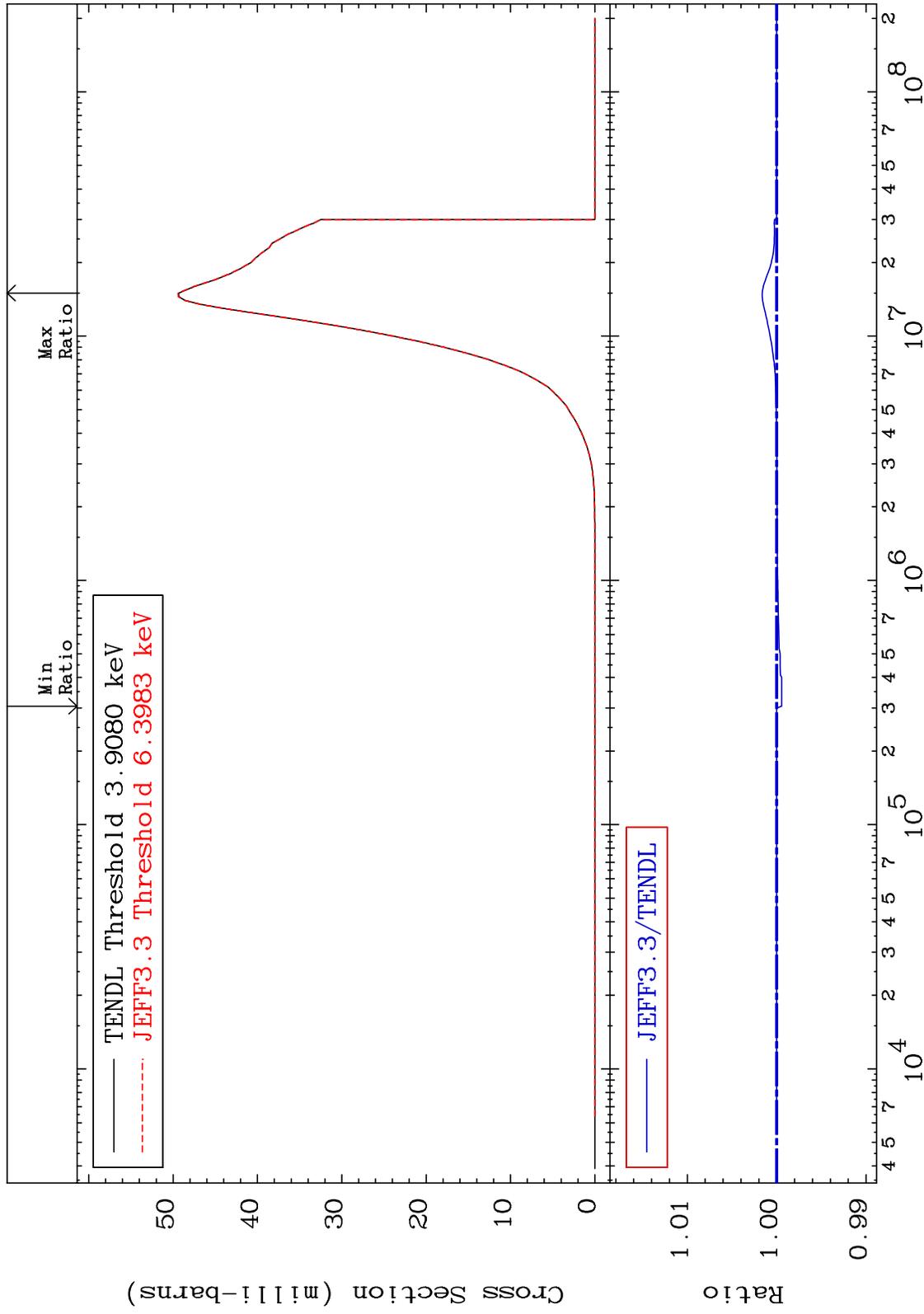


MAT 3434

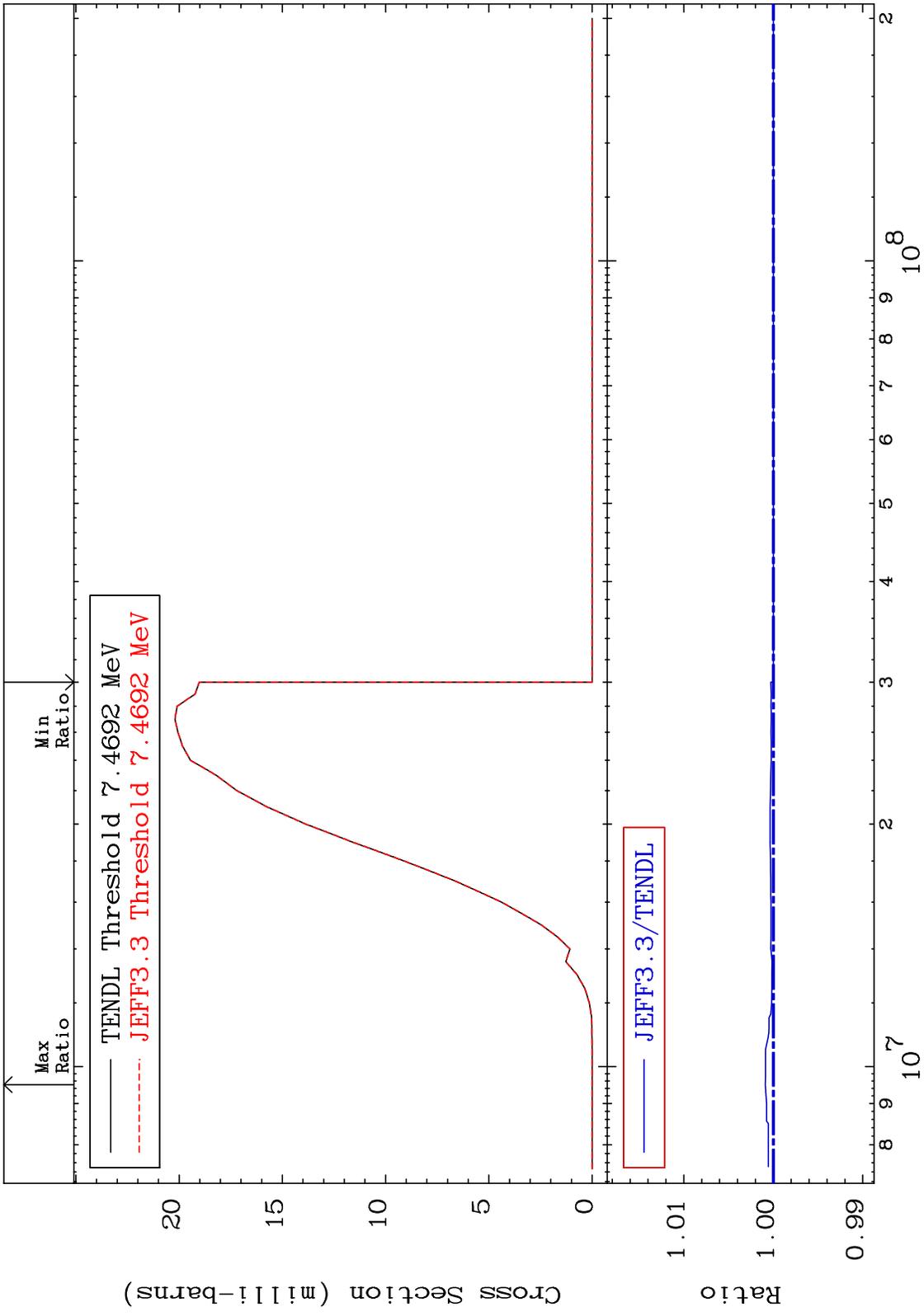
(n,p)

³⁴Se-77

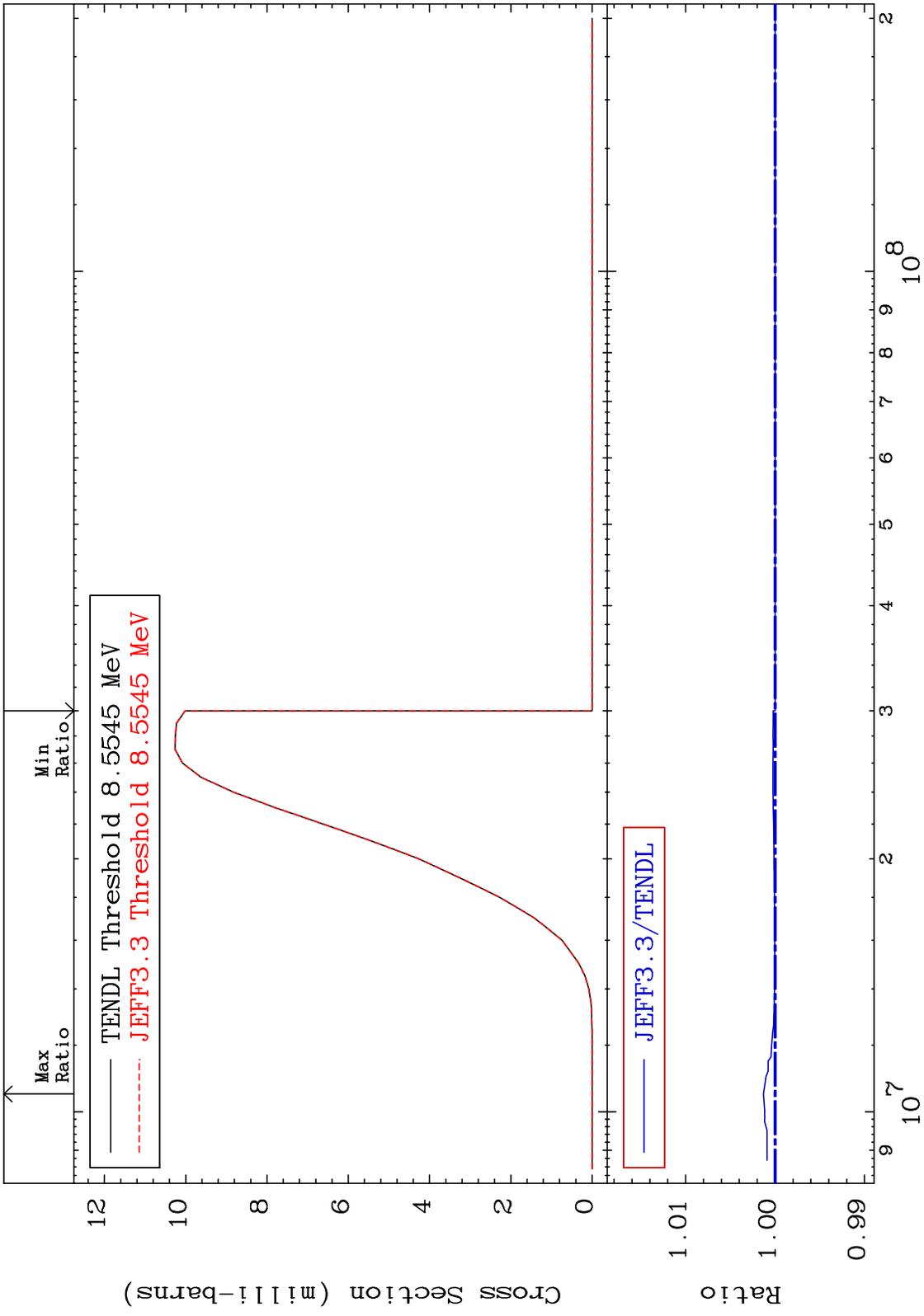
Cross Section
-0.055 To 0.163 %



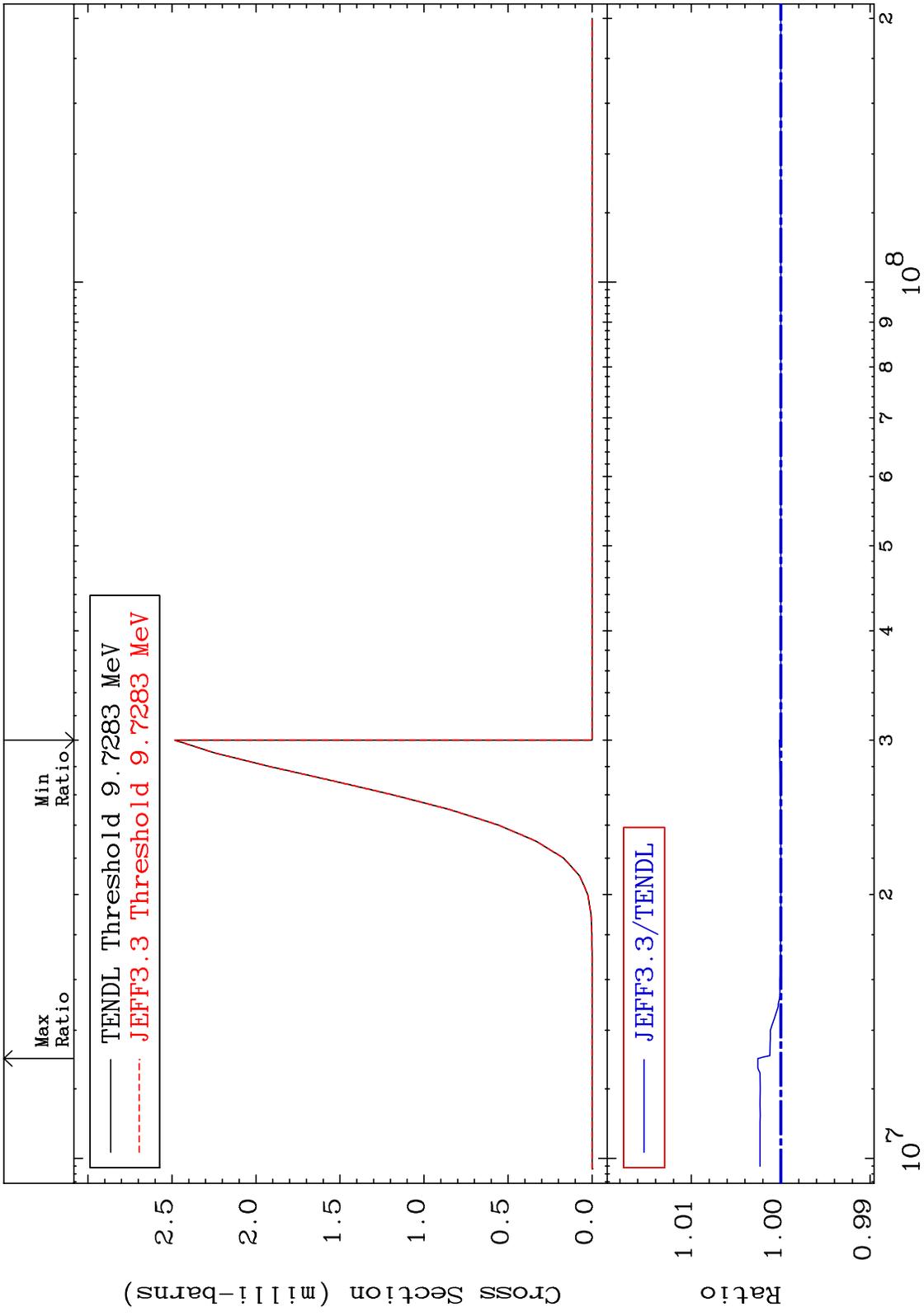
MAT 3434 (n,d) Cross Section 34-Se-77 To 0.090 %



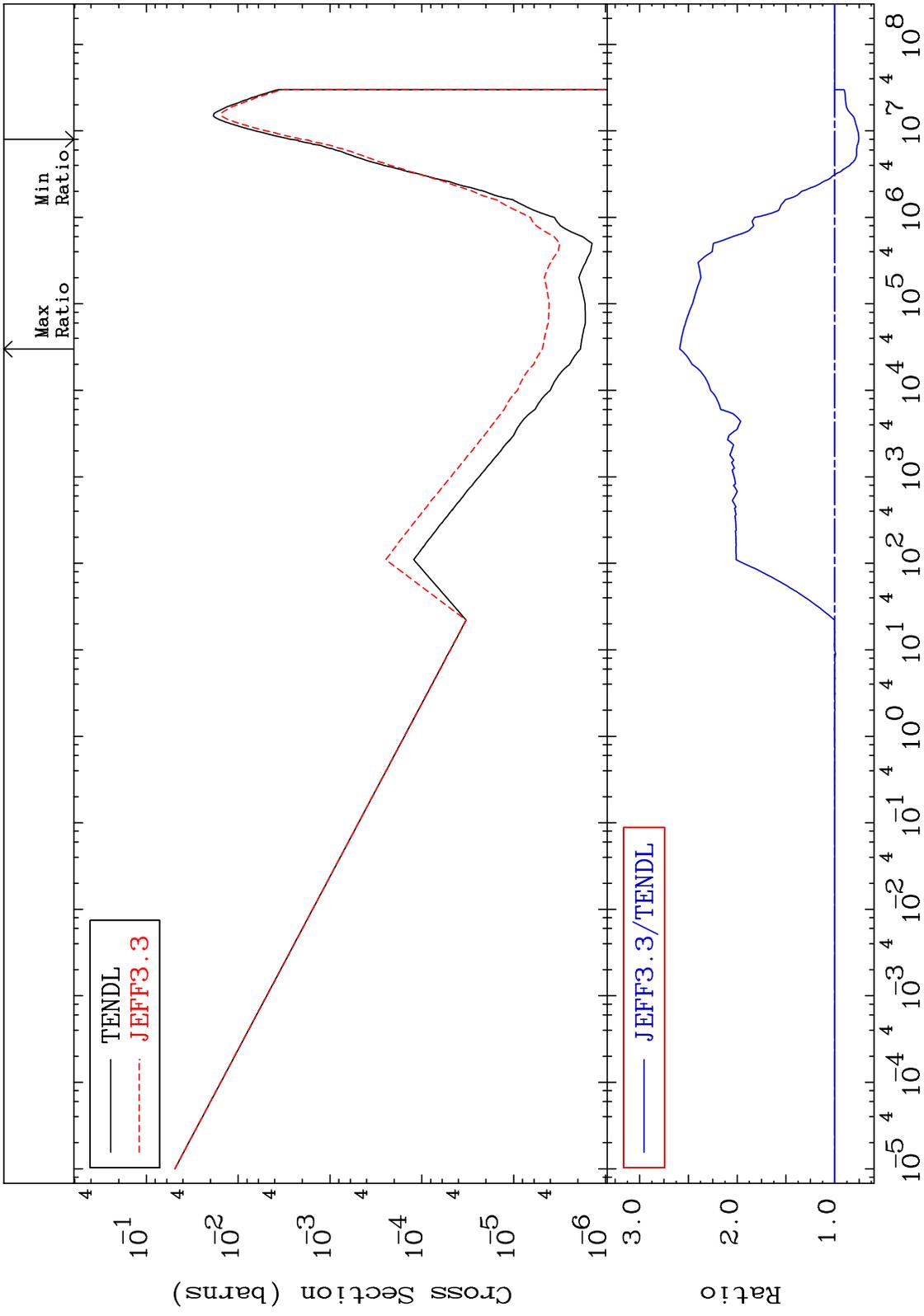
MAT 3434 (n,t) Cross Section 34-Se-77 To 0.130 %



MAT 3434 (n, He-3) Cross Section 34-Se-77 To 0.258 %



MAT 3434 (n, α) Cross Section $^{34}\text{Se-77}$ -24.67 To 158.8 %



MAT 3434

(n,2α)

34-Se-77

-41.26 To 3182. %

Cross Section

Max Ratio
Min Ratio

TENDL Threshold 1.8370 MeV
JEFF3.3 Threshold 1.8370 MeV

Cross Section (micro-barns)

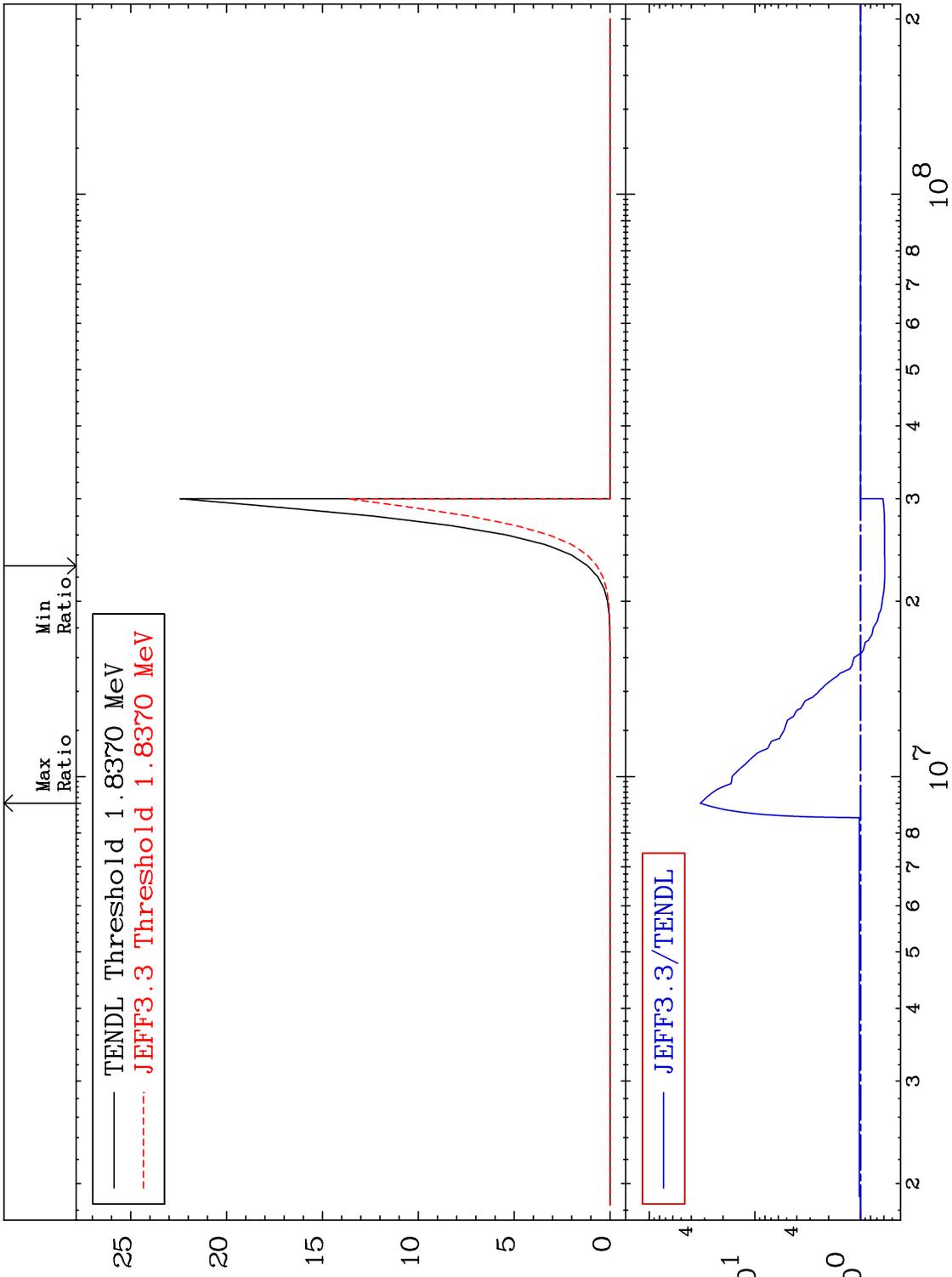
JEFF3.3/TENDL

Ratio

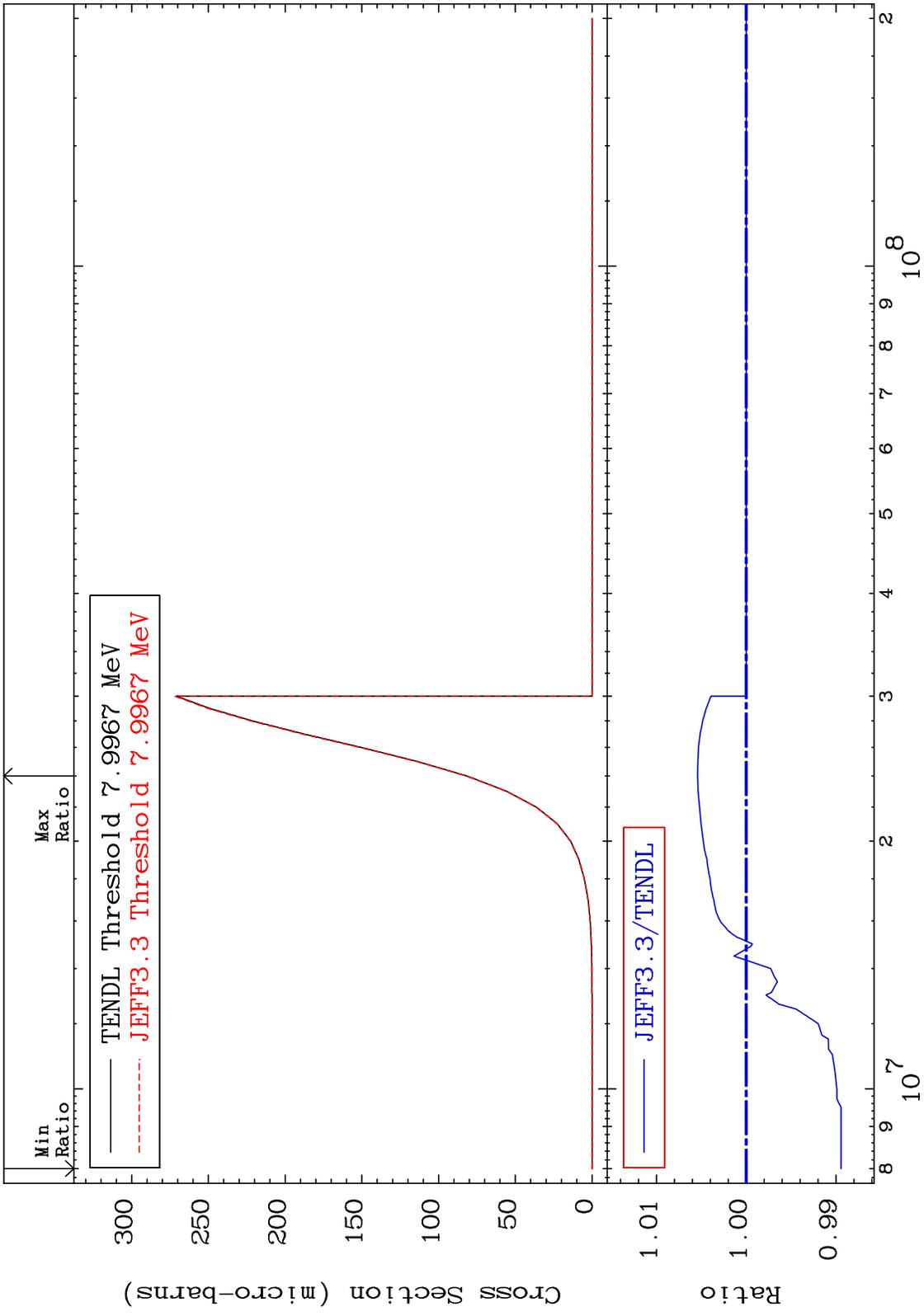
57

Incident Energy (eV)

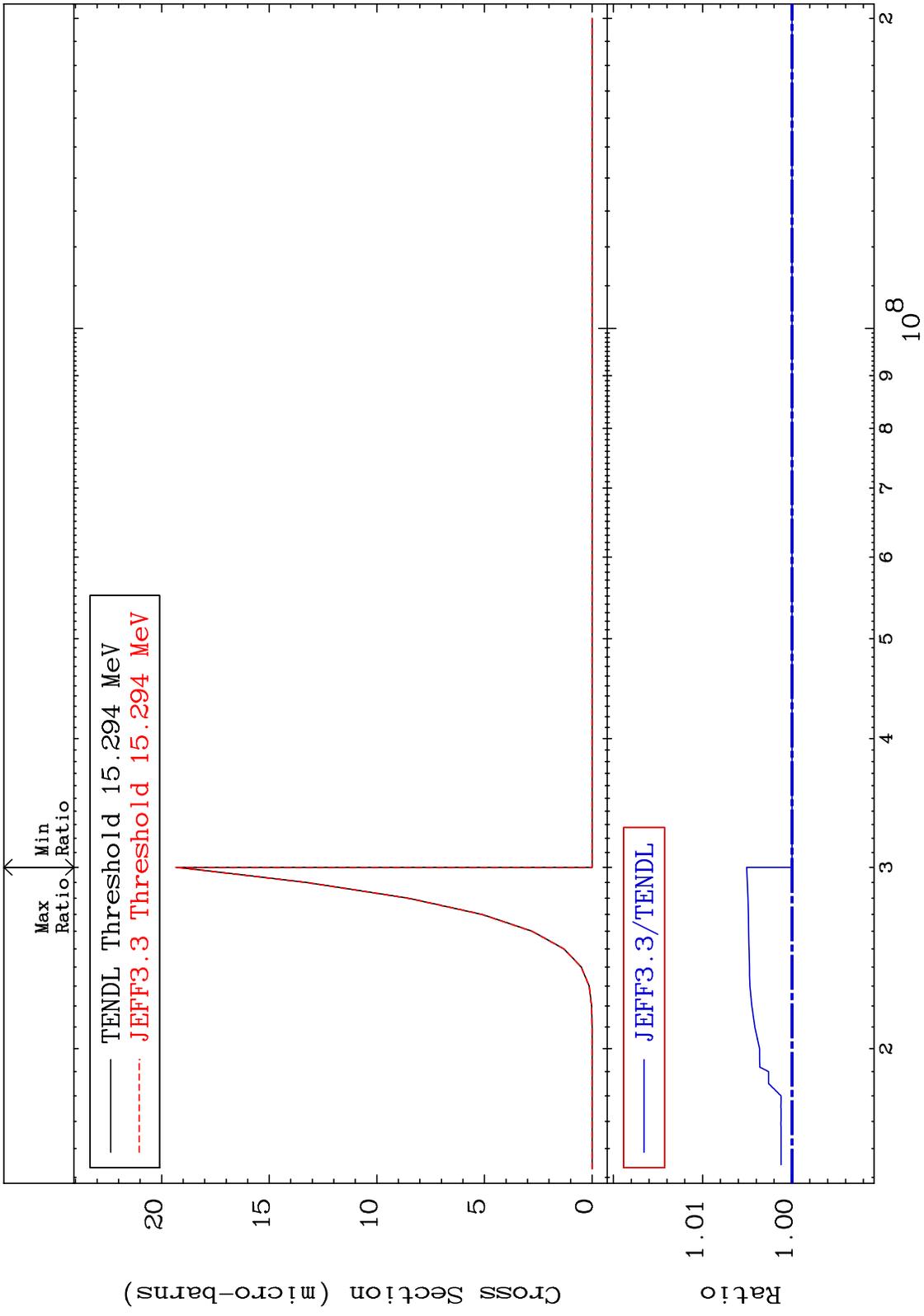
34-Se-77



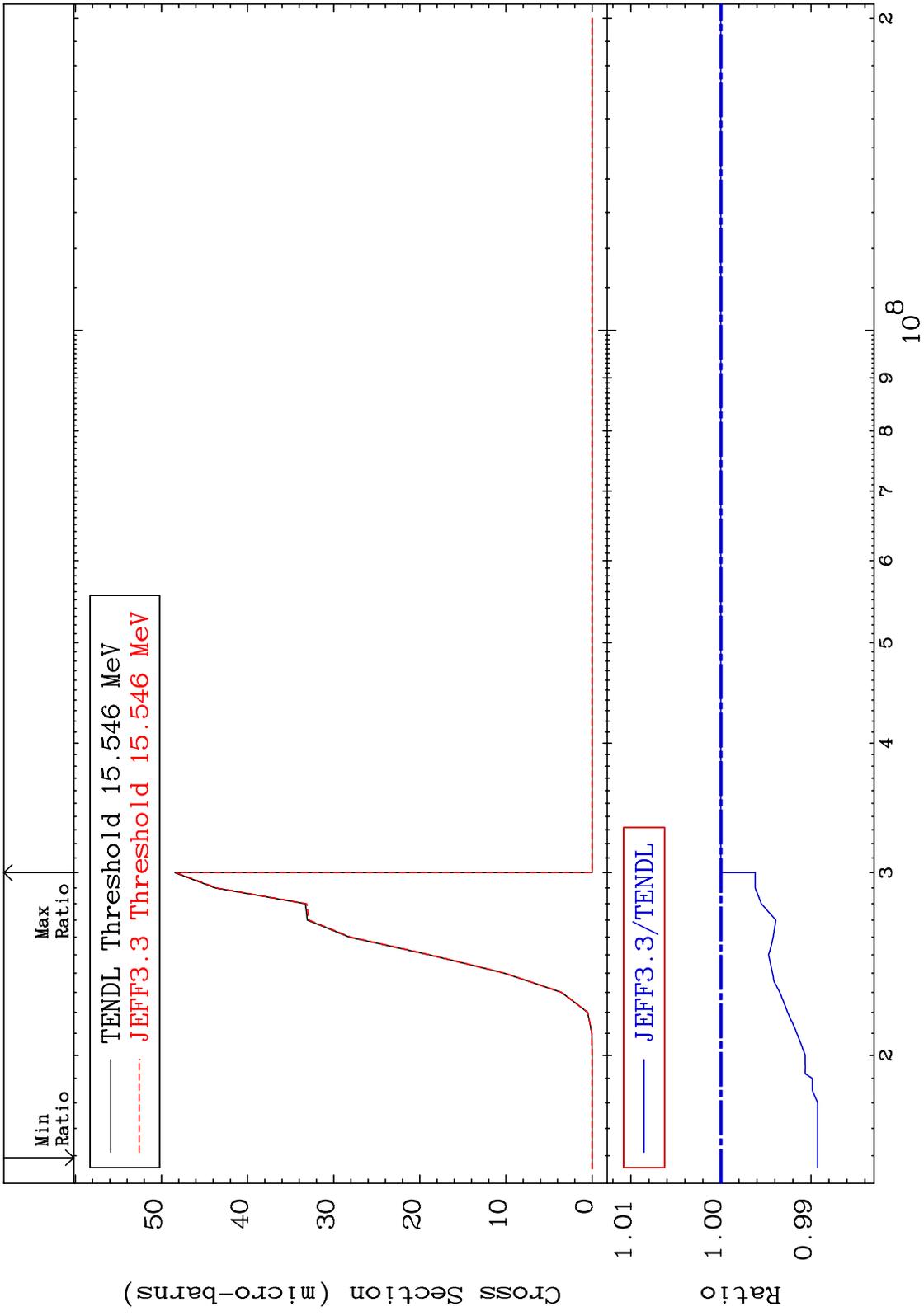
MAT 3434 (n,2p) Cross Section 34-Se-77 -1.056 To 0.542 %



MAT 3434 (n,p) d 34-Se-77
 Cross Section 0.000 To 0.508 %



MAT 3434 (n,p) t 34-Se-77
 Cross Section -1.074 To 0.000 %



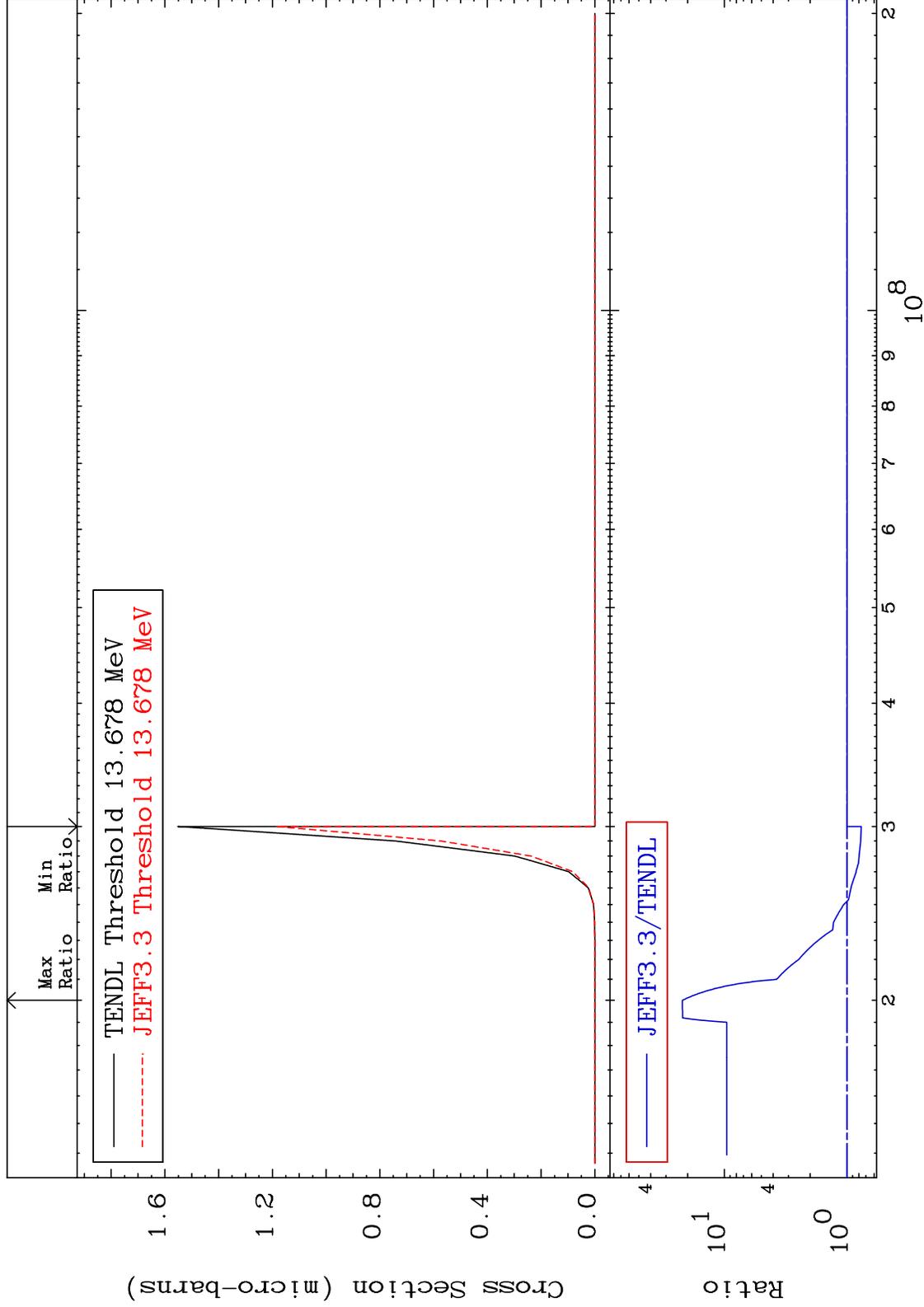
MAT 3434

(n,d) α

34-Se-77

Cross Section

-23.61 To 2102. %



62

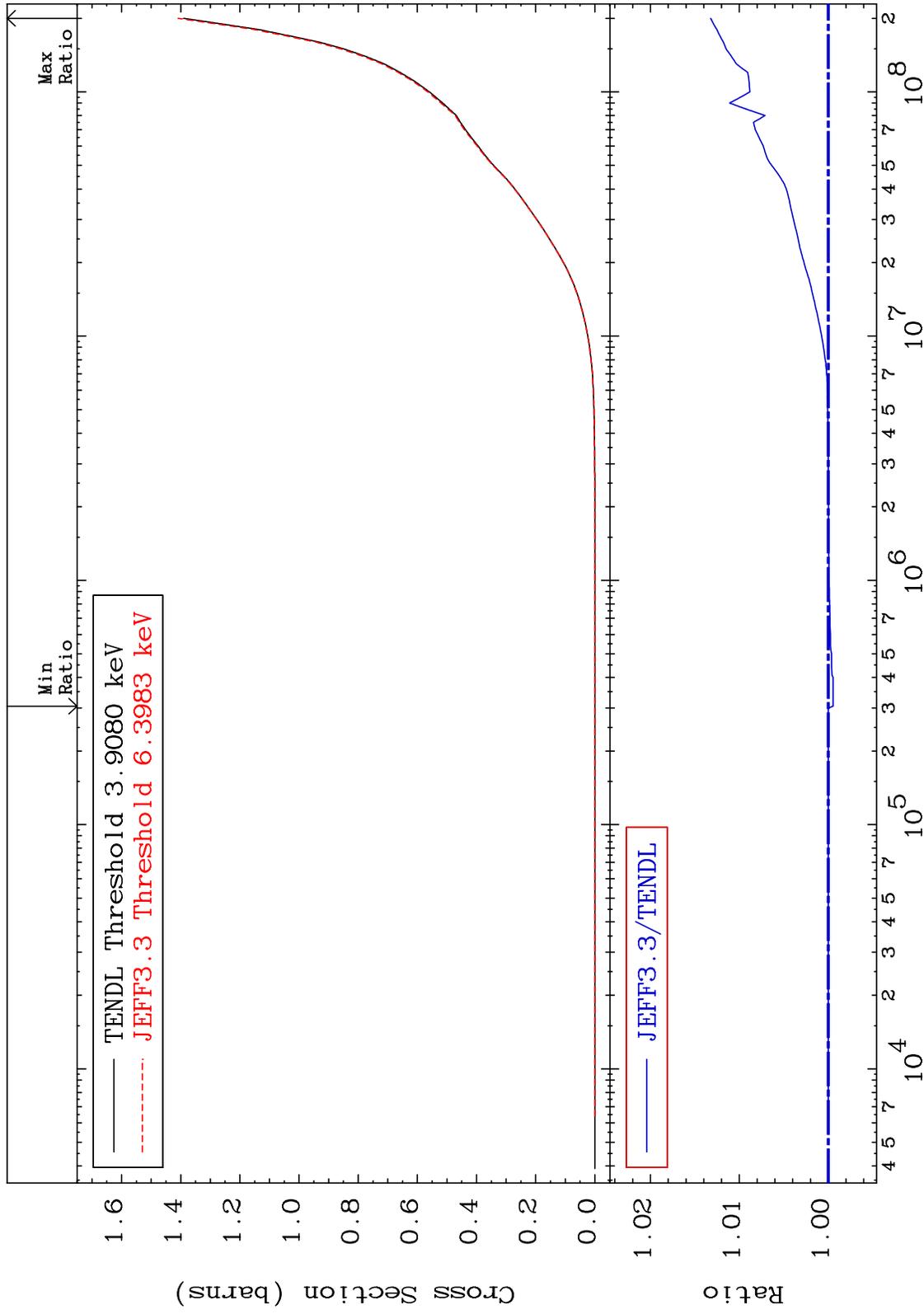
Incident Energy (eV)

34-Se-77

MAT 3434

Hydrogen Production
Cross Section

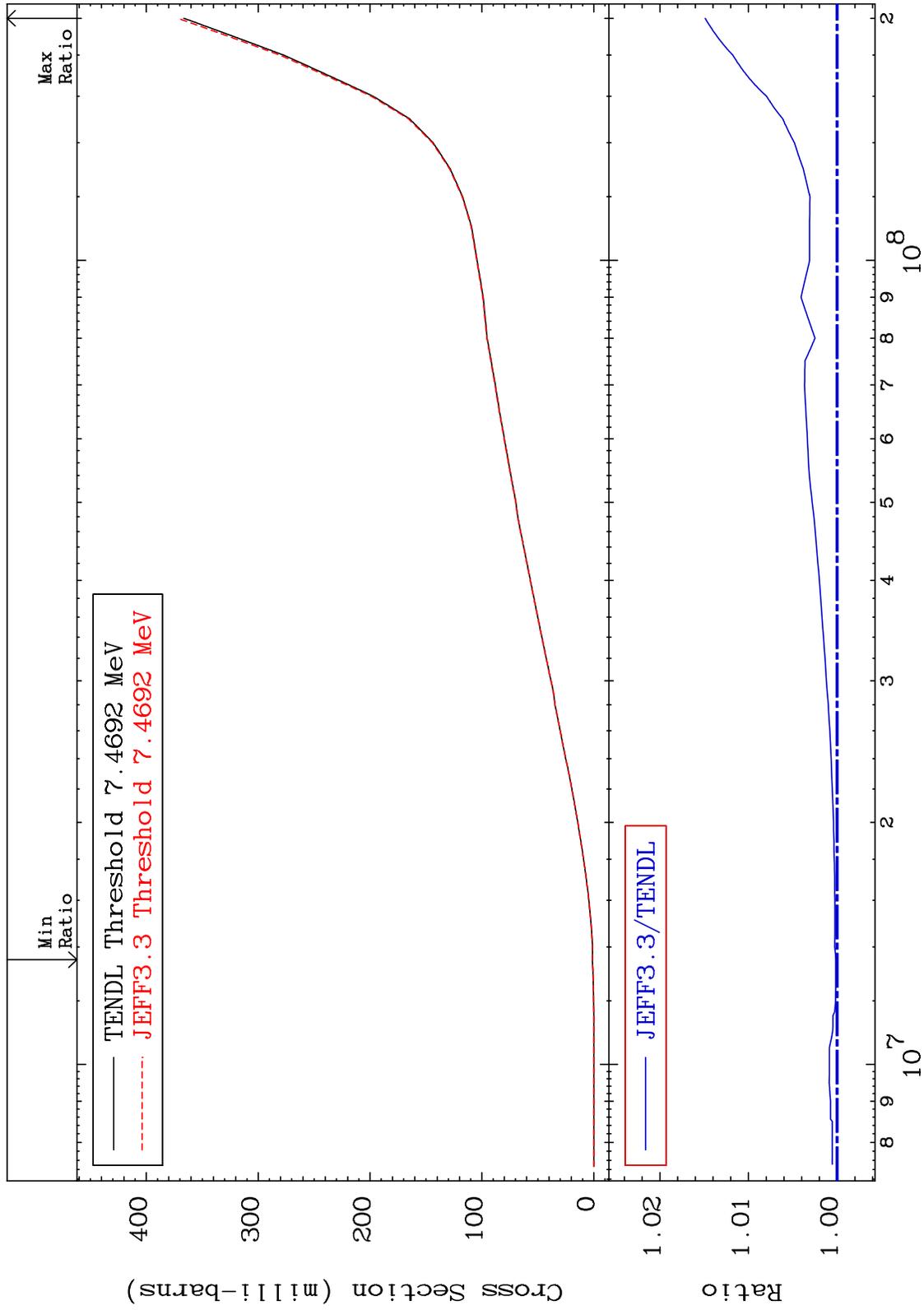
34-Se-77
-0.055 To 1.322 %



MAT 3434

Deuterium Production
Cross Section

34-Se-77
To 1.489 %



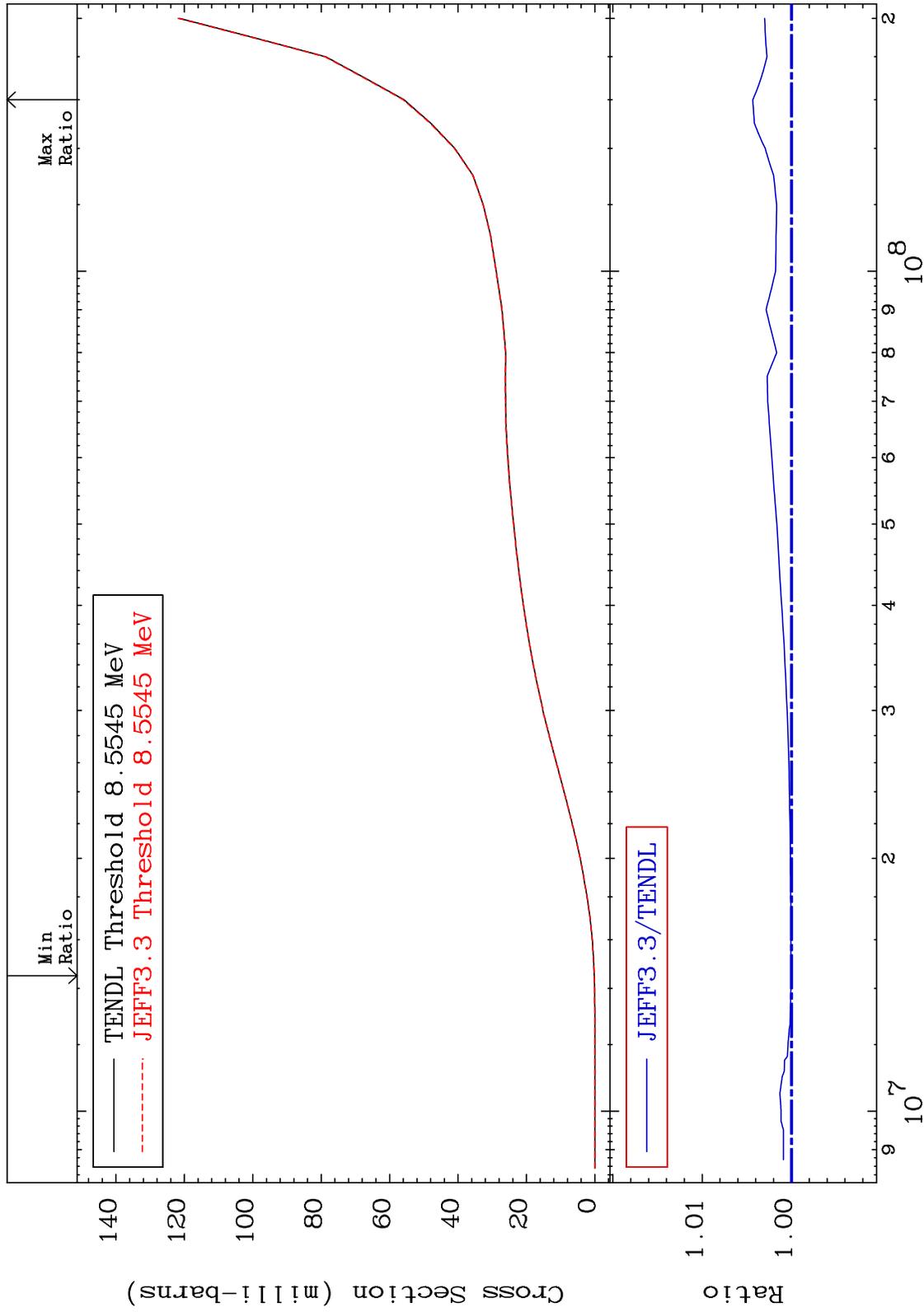
64

34-Se-77

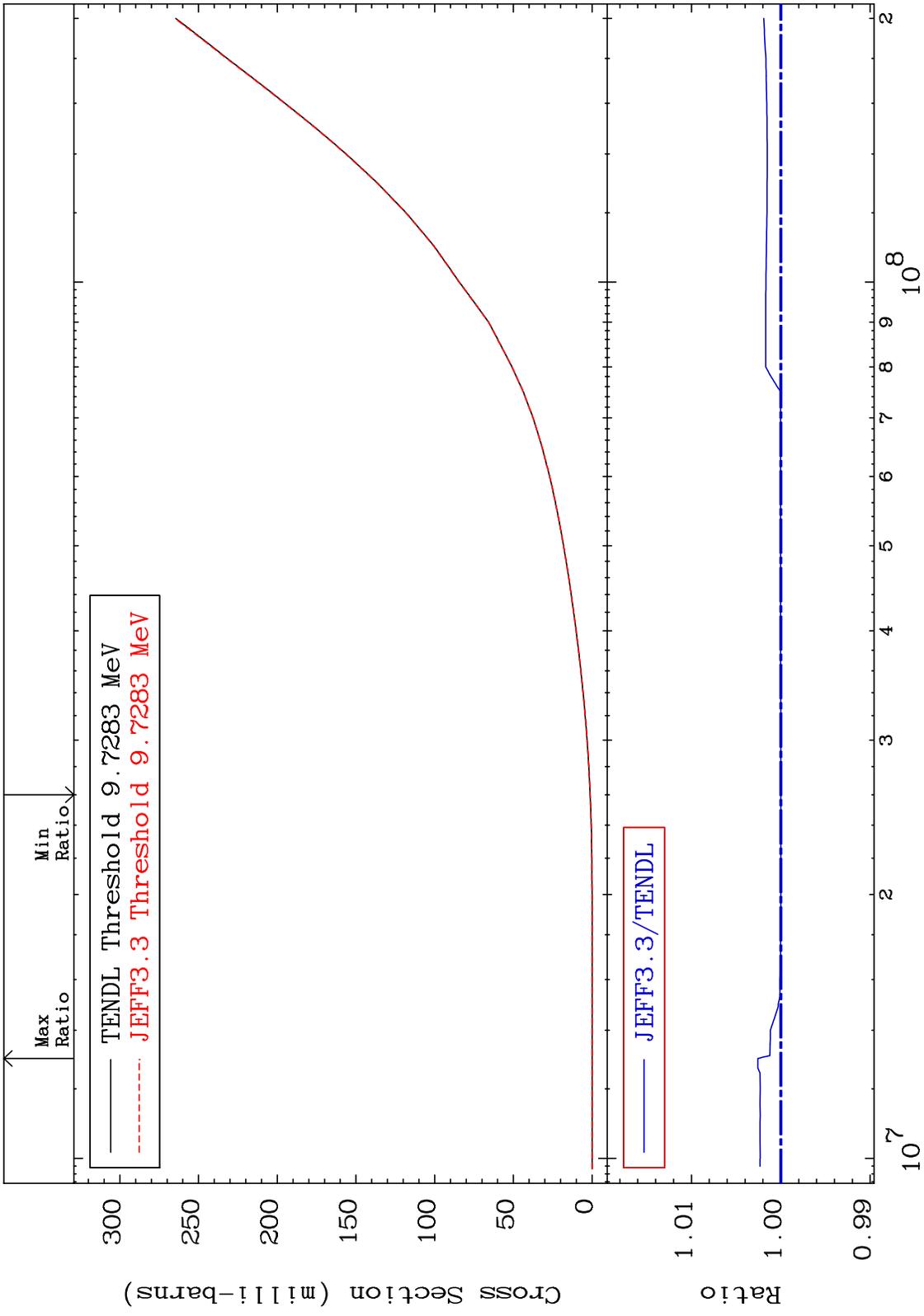
MAT 3434

Tritium Production
Cross Section

34-Se-77
To 0.433 %



MAT 3434 He-3 Production Cross Section 34-Se-77 To 0.258 %

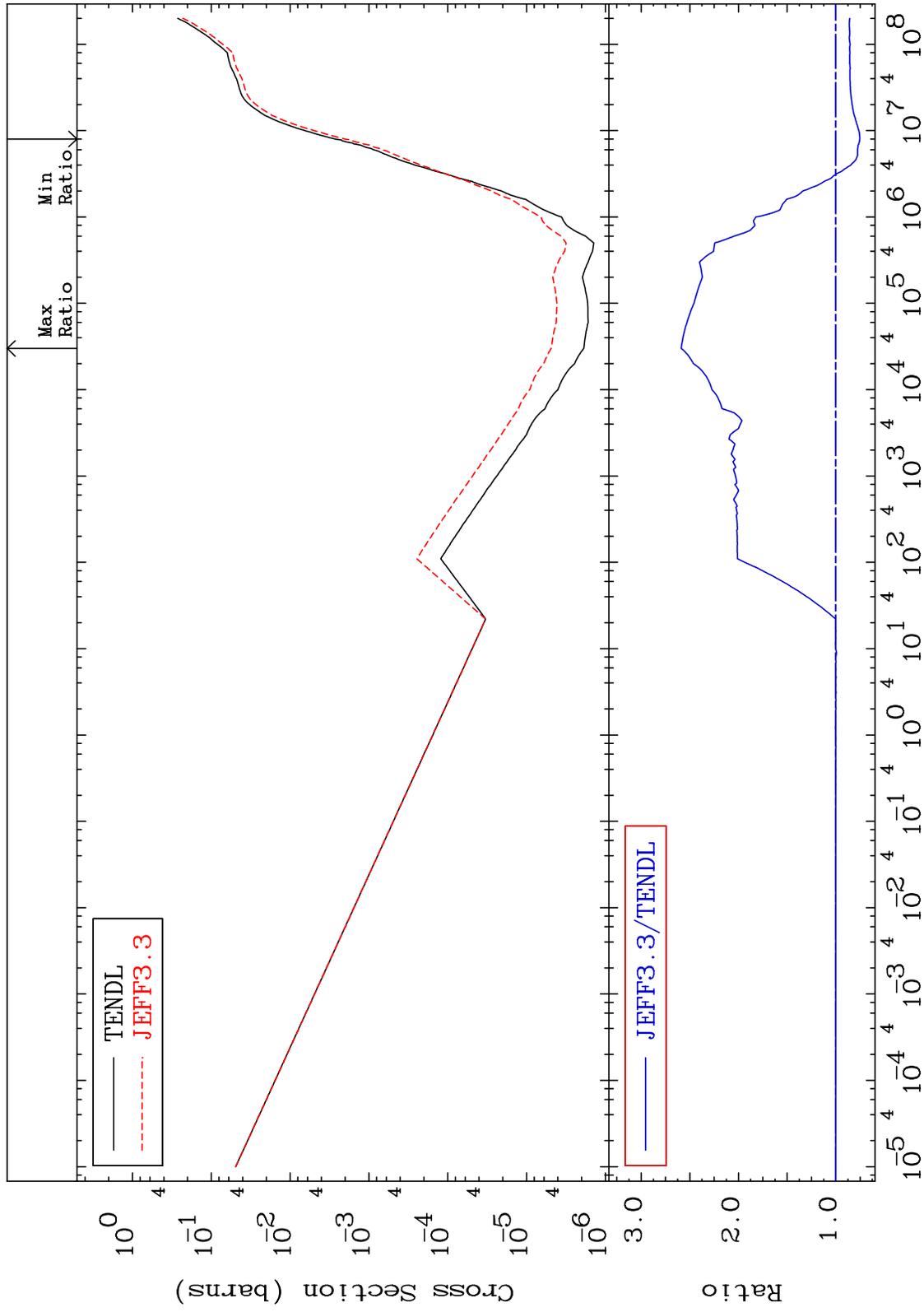


66 34-Se-77

MAT 3434

He-4 Production
Cross Section

34-Se-77
-24.67 To 158.8 %



67

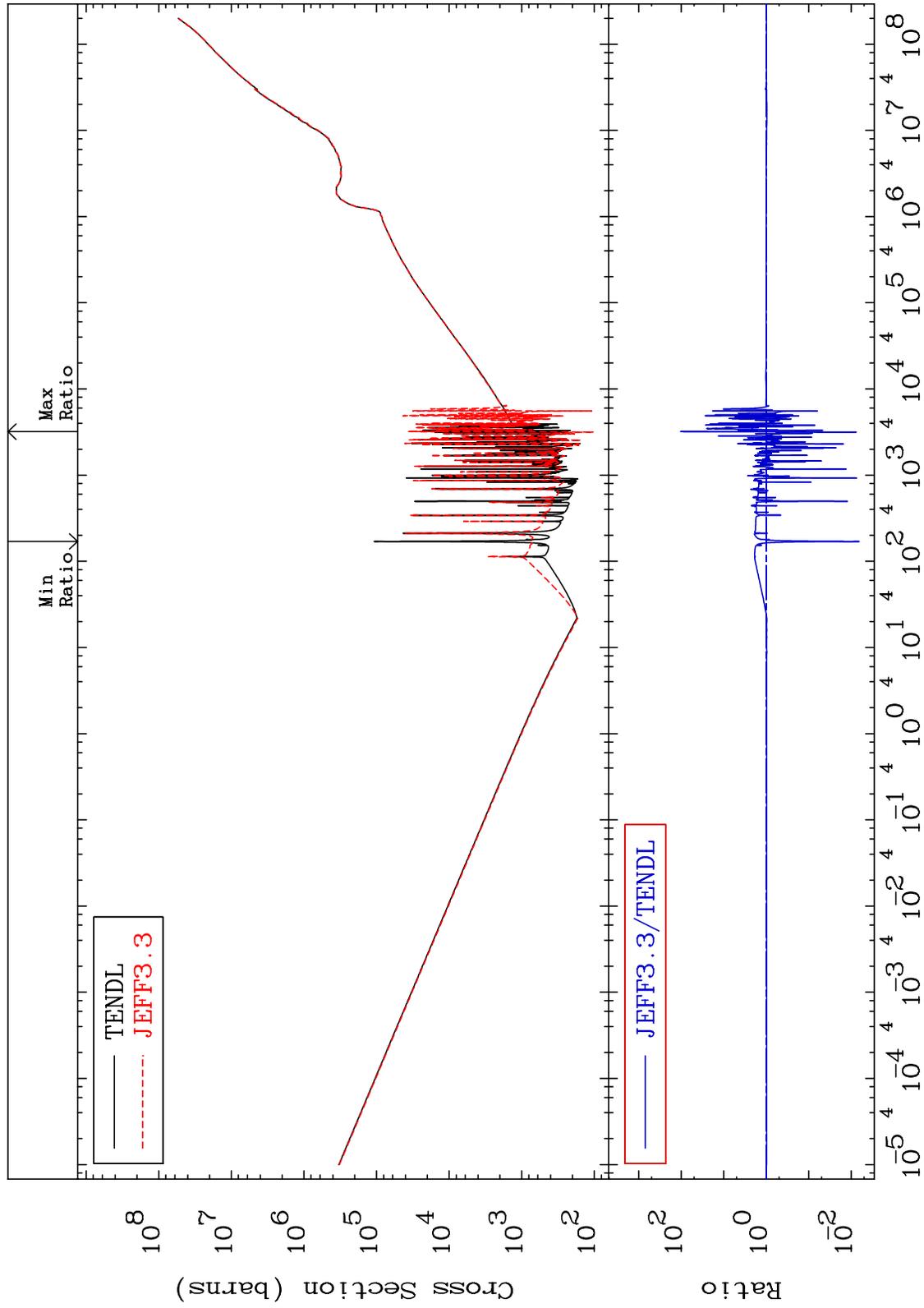
Incident Energy (eV)

34-Se-77

MAT 3434

Kerma total (eV-barns)
Cross Section

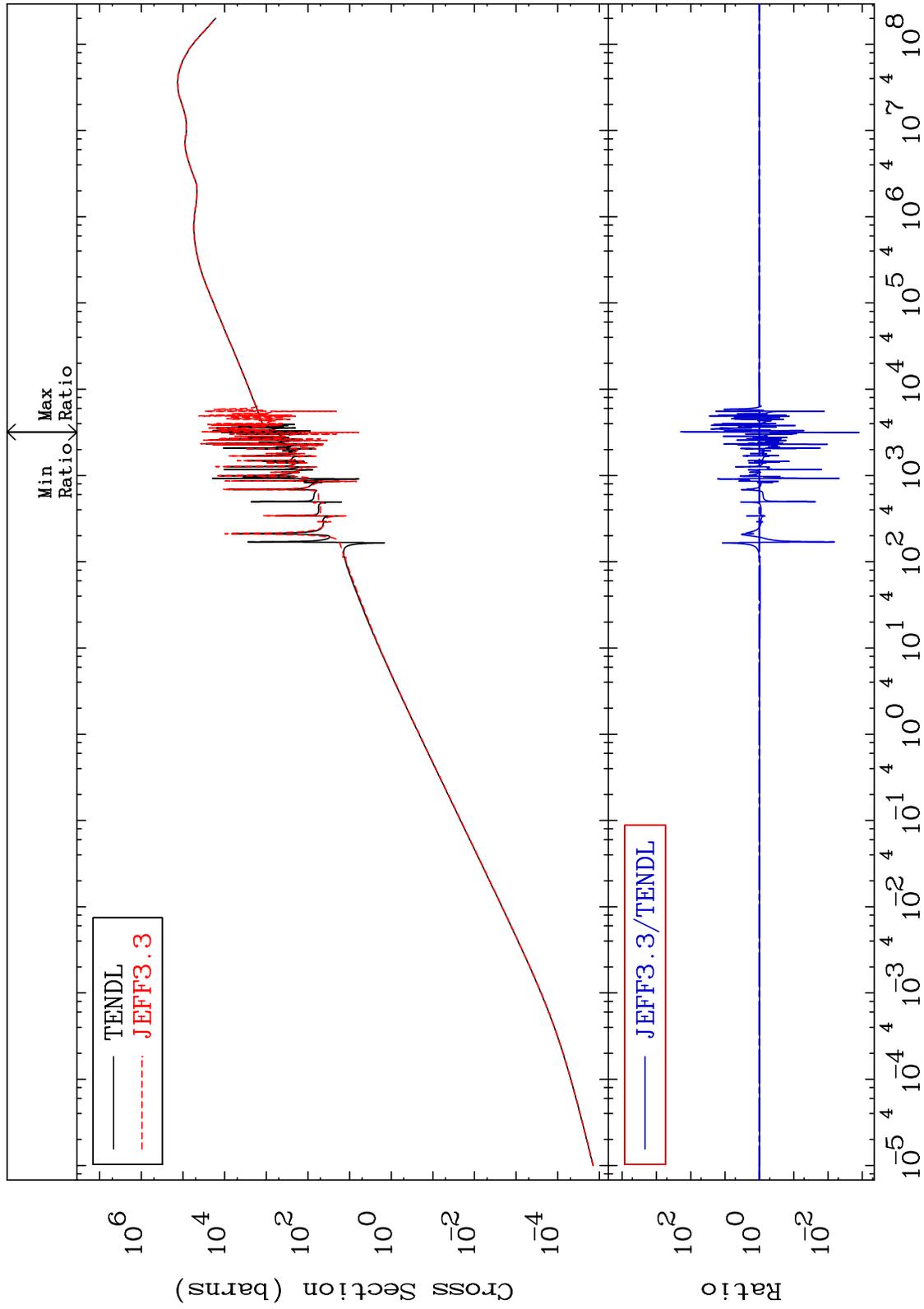
34-Se-77
-99.35 To 9999. %



MAT 3434

Kerma elastic
Cross Section

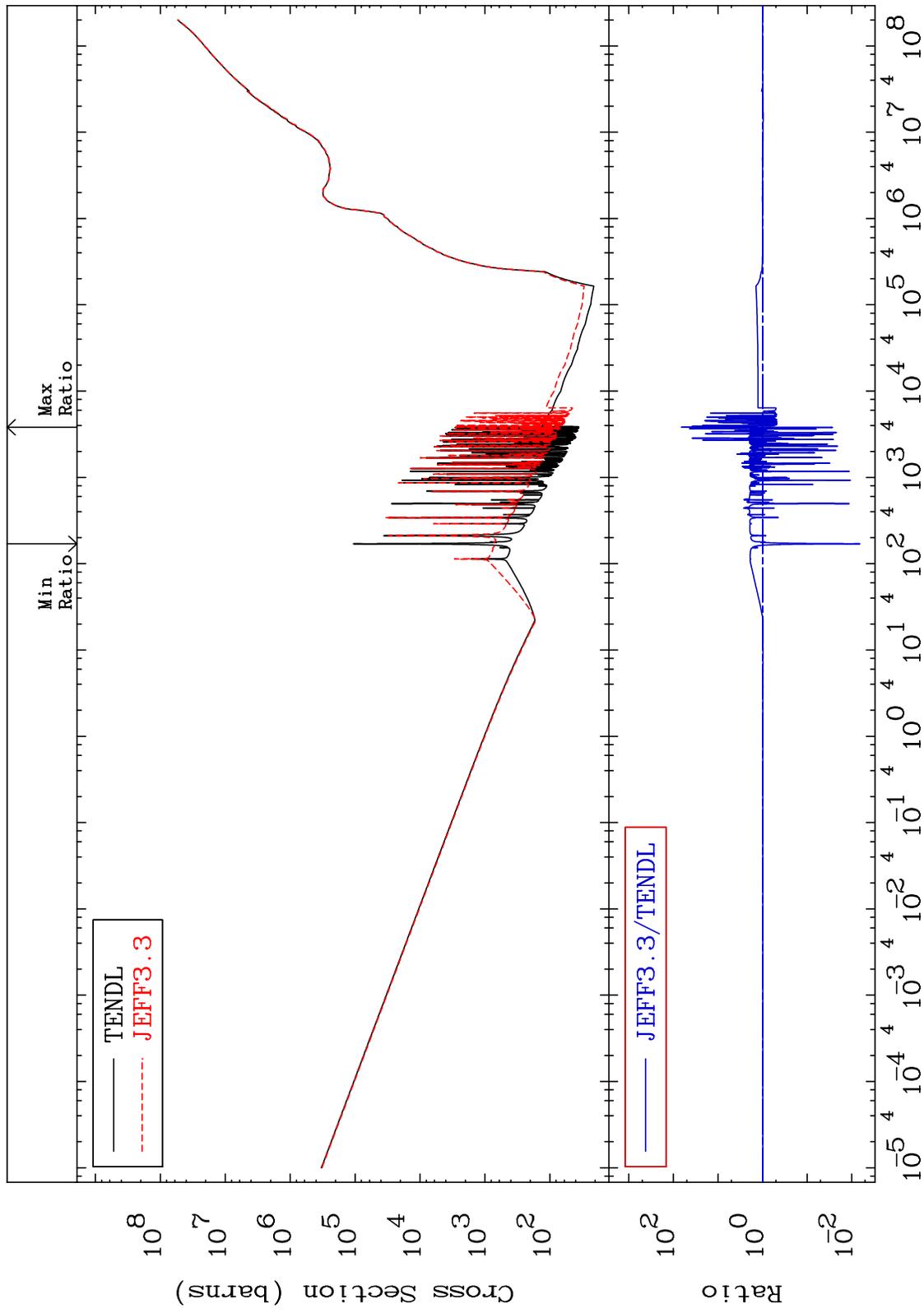
34-Se-77
-99.88 To 9999. %



MAT 3434

Kerma non-elastic (all but mt.2)
Cross Section

34-Se-77
-99.35 To 6574. %



70

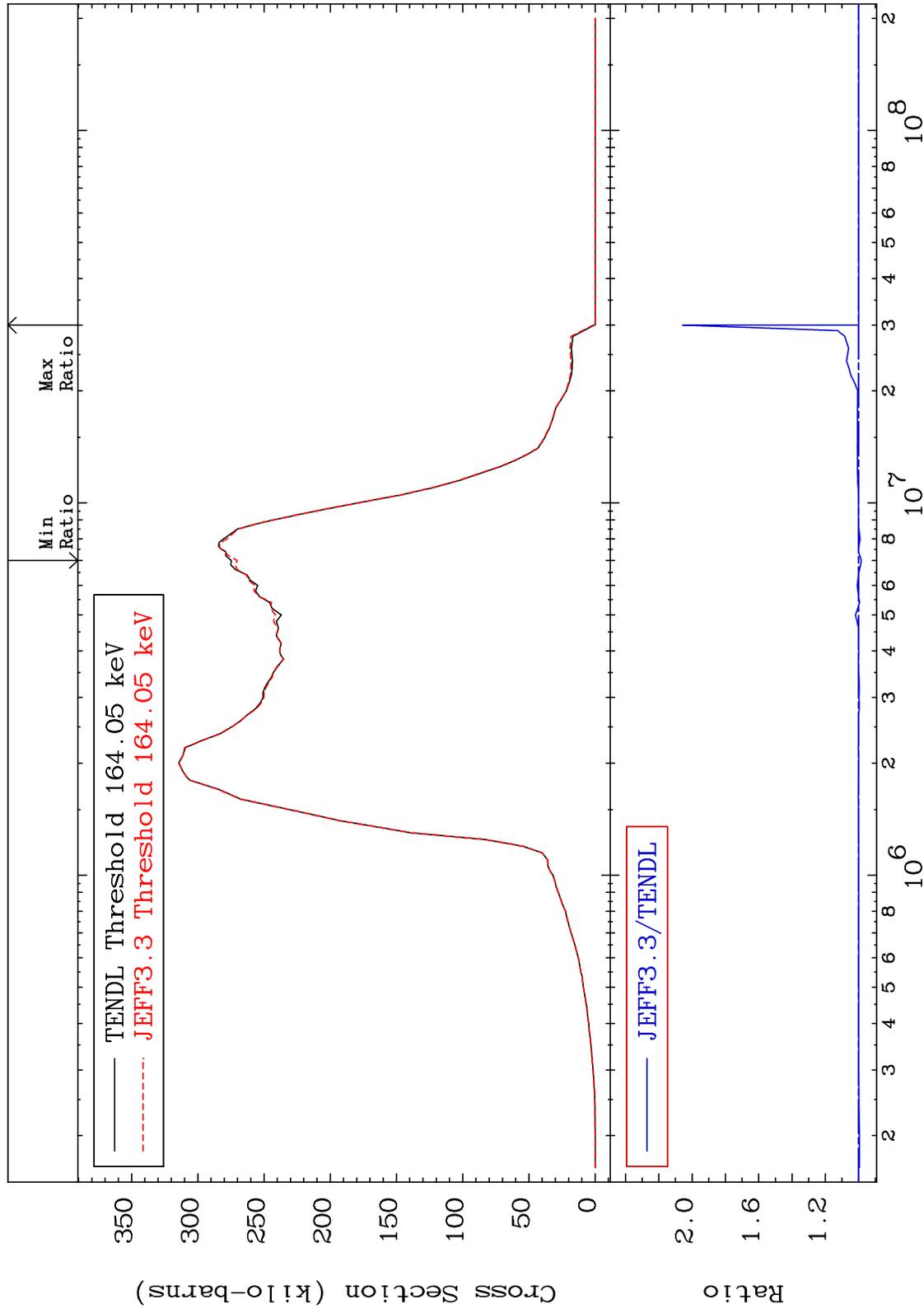
Incident Energy (eV)

34-Se-77

MAT 3434

Kerma inelastic (mt51-91)
Cross Section

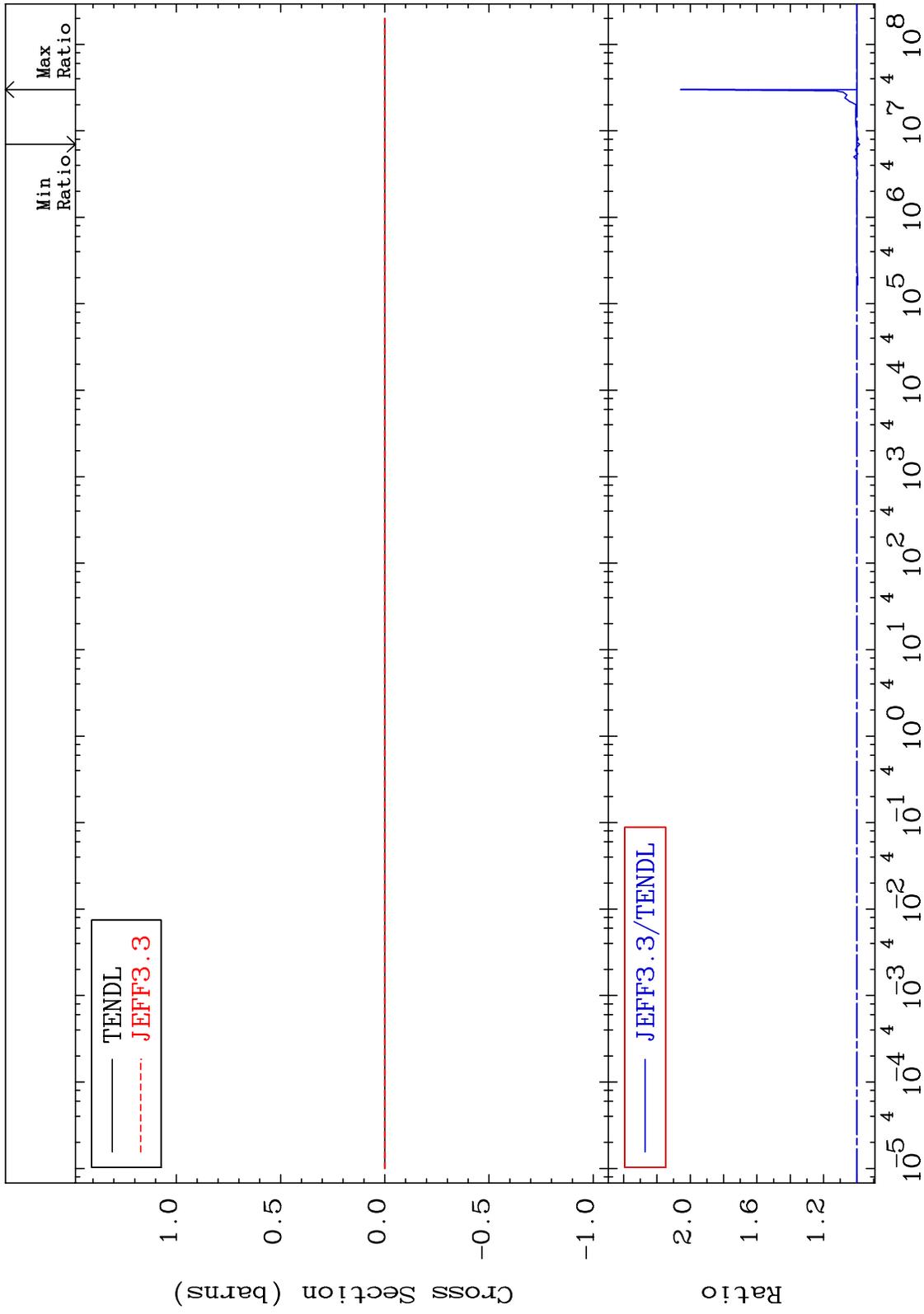
34-Se-77
-1.666 To 105.7 %



MAT 3434

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

34-Se-77
-1.666 To 105.7 %



72

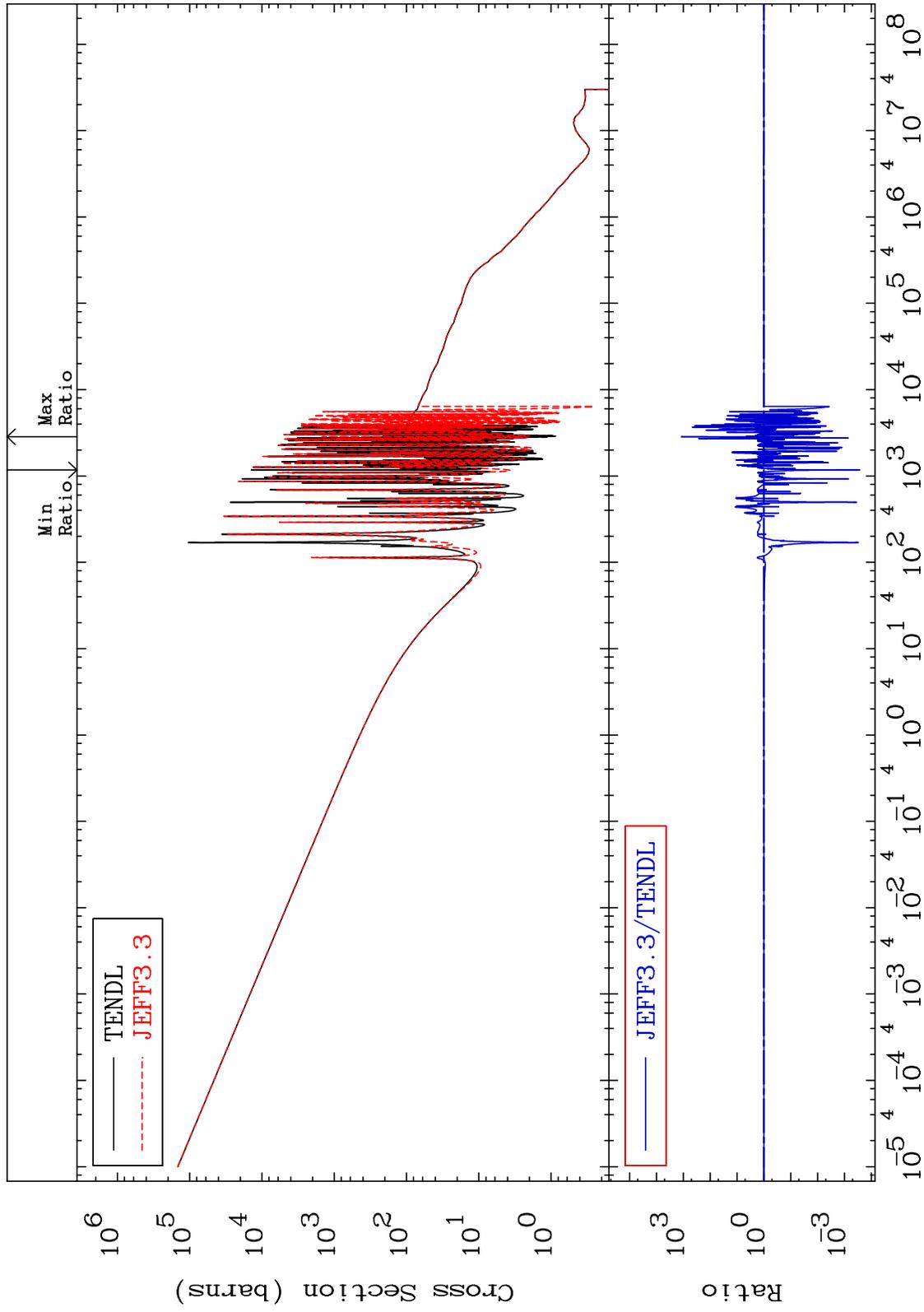
Incident Energy (eV)

34-Se-77

MAT 3434

Kerma capture (mt102)
Cross Section

34-Se-77
-99.97 To 9999. %



73

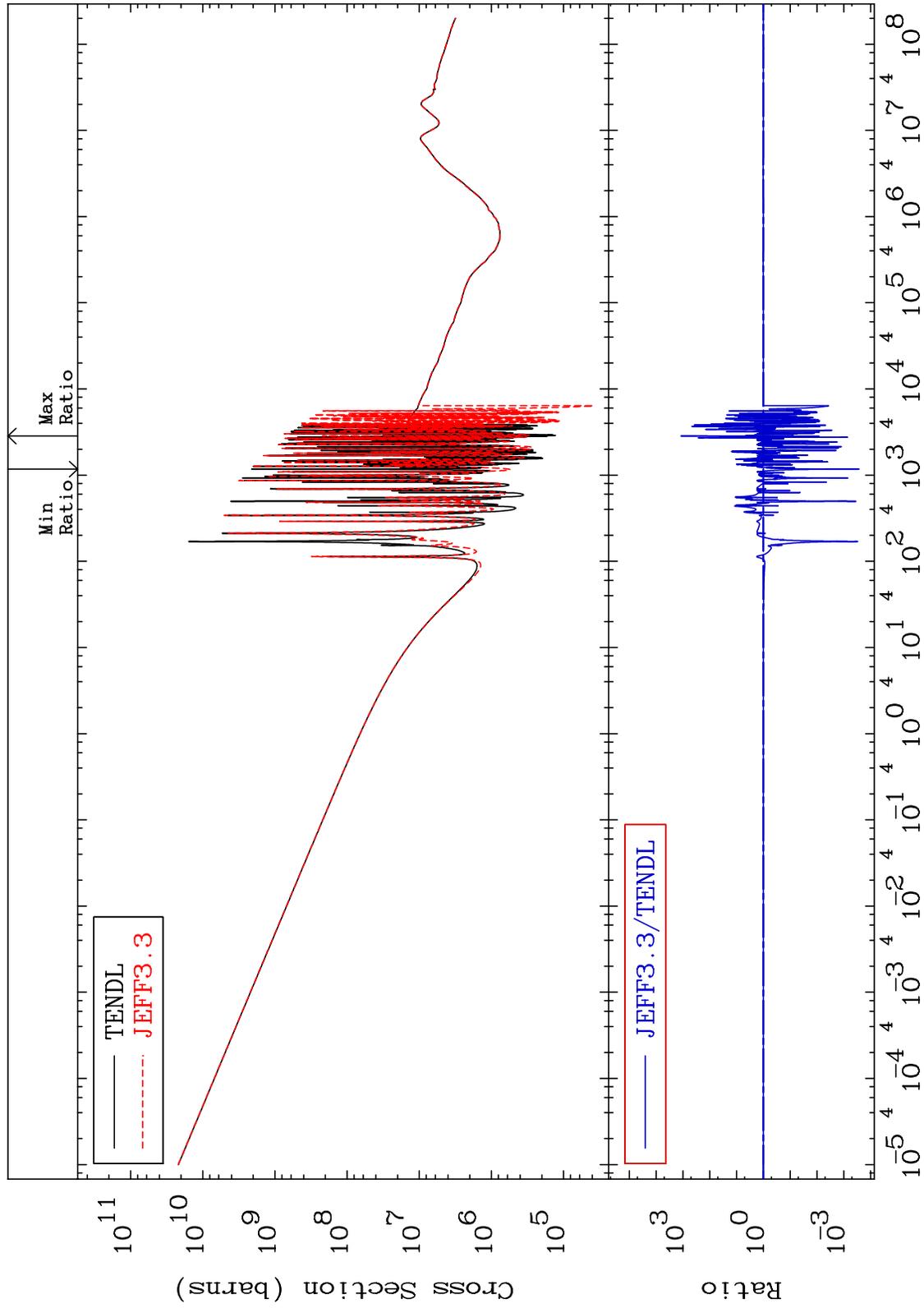
Incident Energy (eV)

34-Se-77

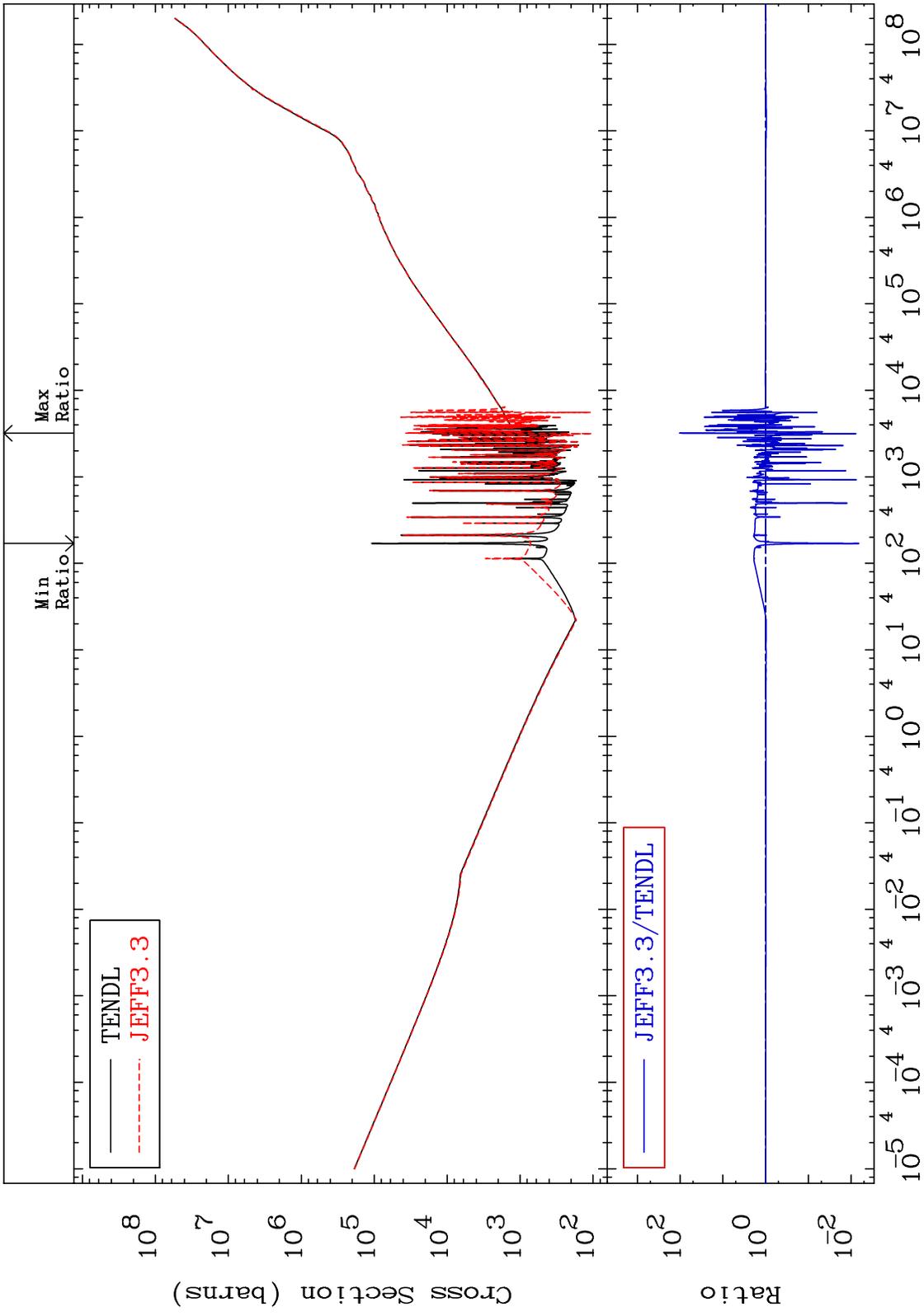
MAT 3434

Total photon (eV-barns)
Cross Section

34-Se-77
-99.97 To 9999. %



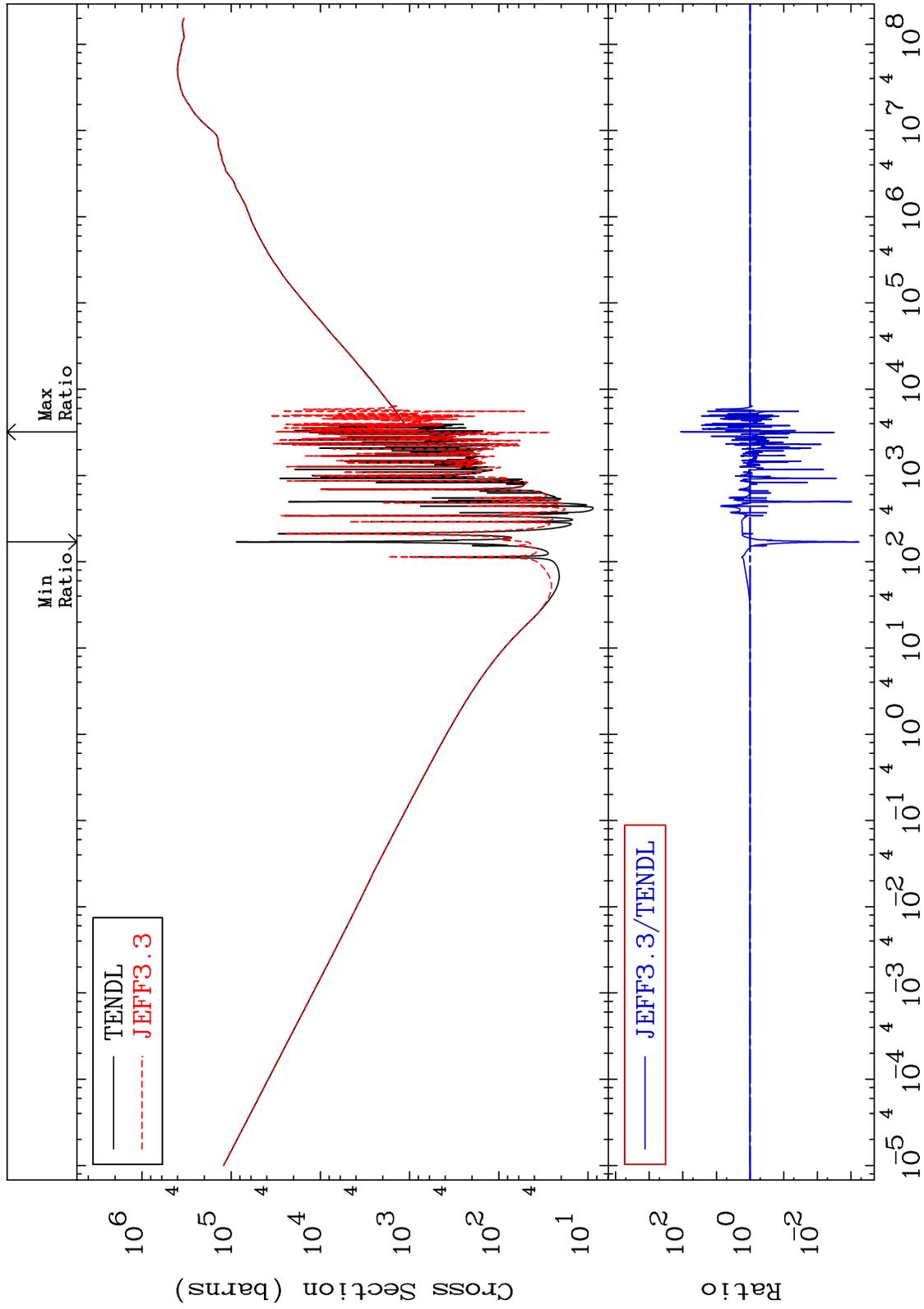
MAT 3434 Total kinematic kerma (high limit) 34-Se-77
Cross Section -99.34 To 9999. %



MAT 3434

Dpa total (eV-barns)
Cross Section

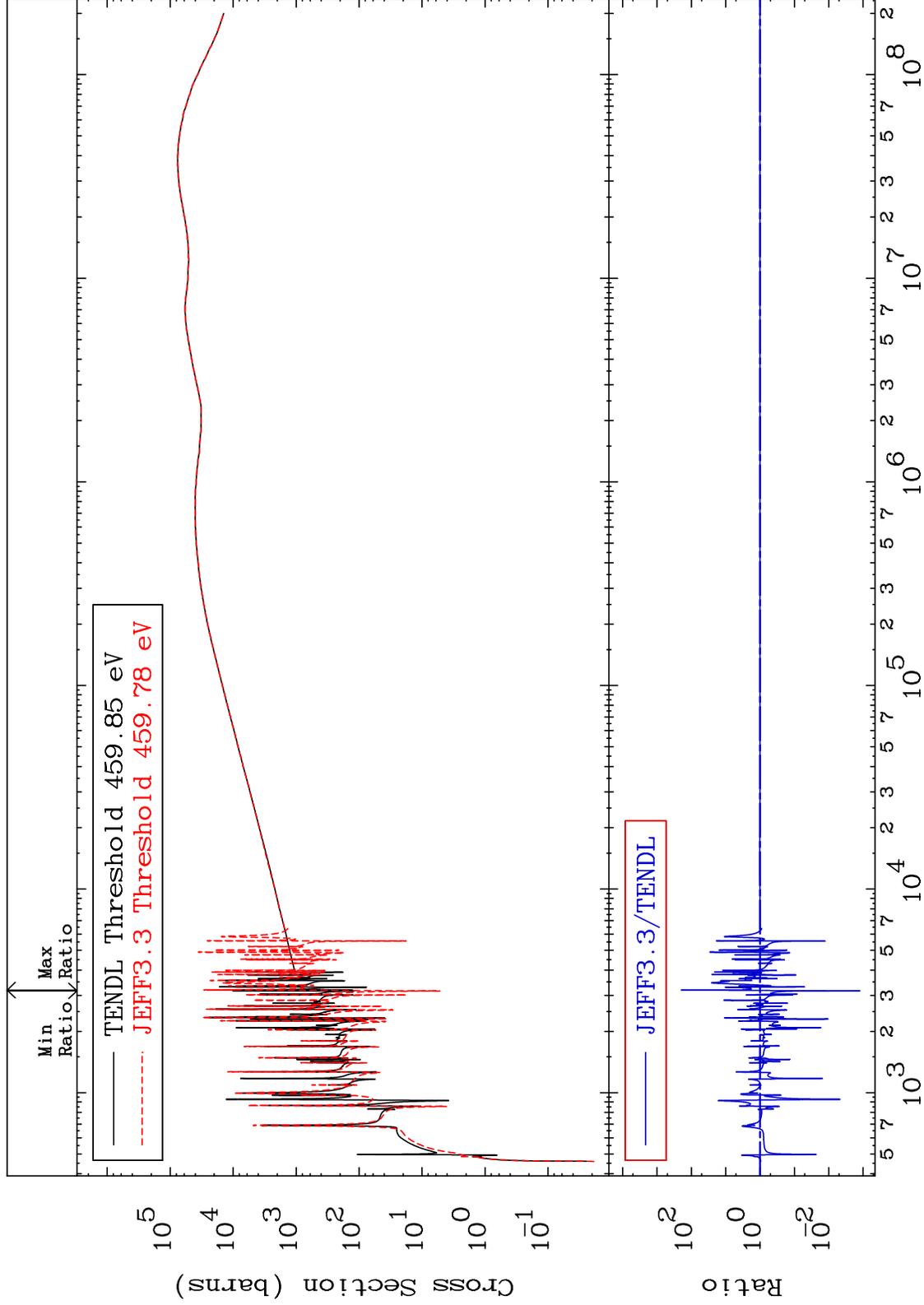
34-Se-77
-99.94 To 9999. %



MAT 3434

Dpa elastic (mt2)
Cross Section

34-Se-77
-99.88 To 9999. %



77

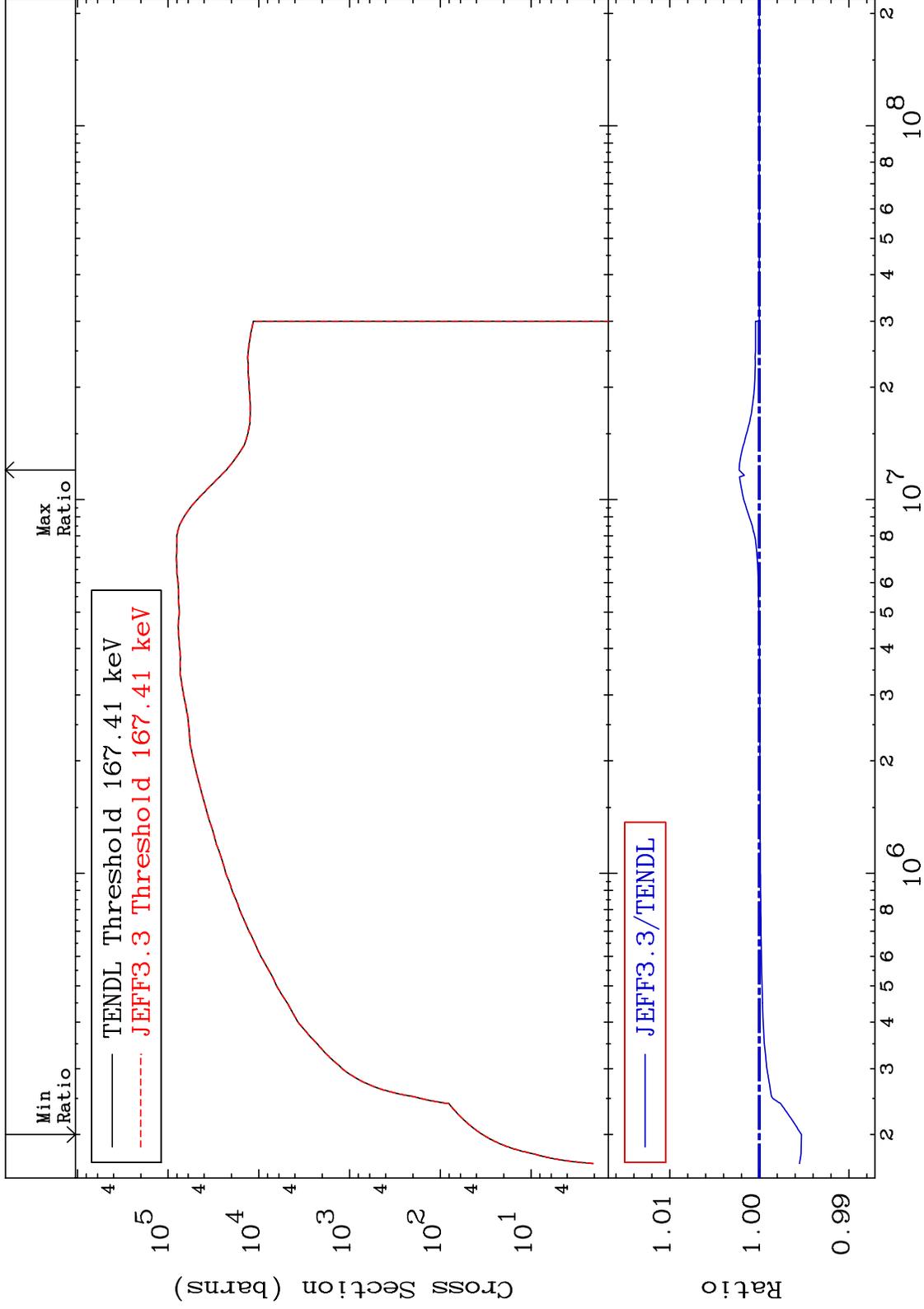
34-Se-77

34-Se-77

MAT 3434

Dpa inelastic (mt51-91)
Cross Section

34-Se-77
-0.469 To 0.226 %



78

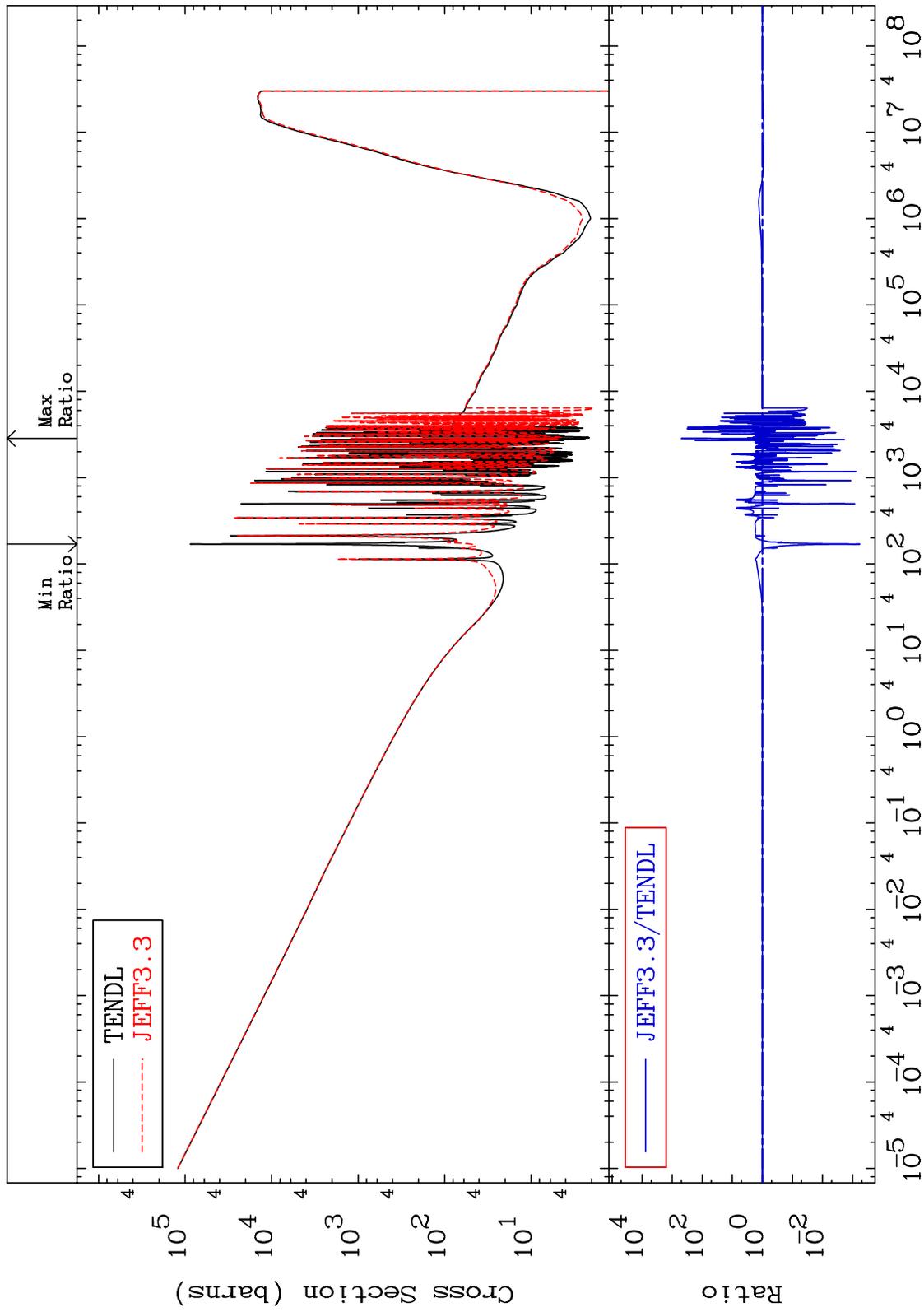
Incident Energy (eV)

34-Se-77

MAT 3434

Dpa disappearance (mt102 -120)
Cross Section

34-Se-77
-99.94 To 9999. %

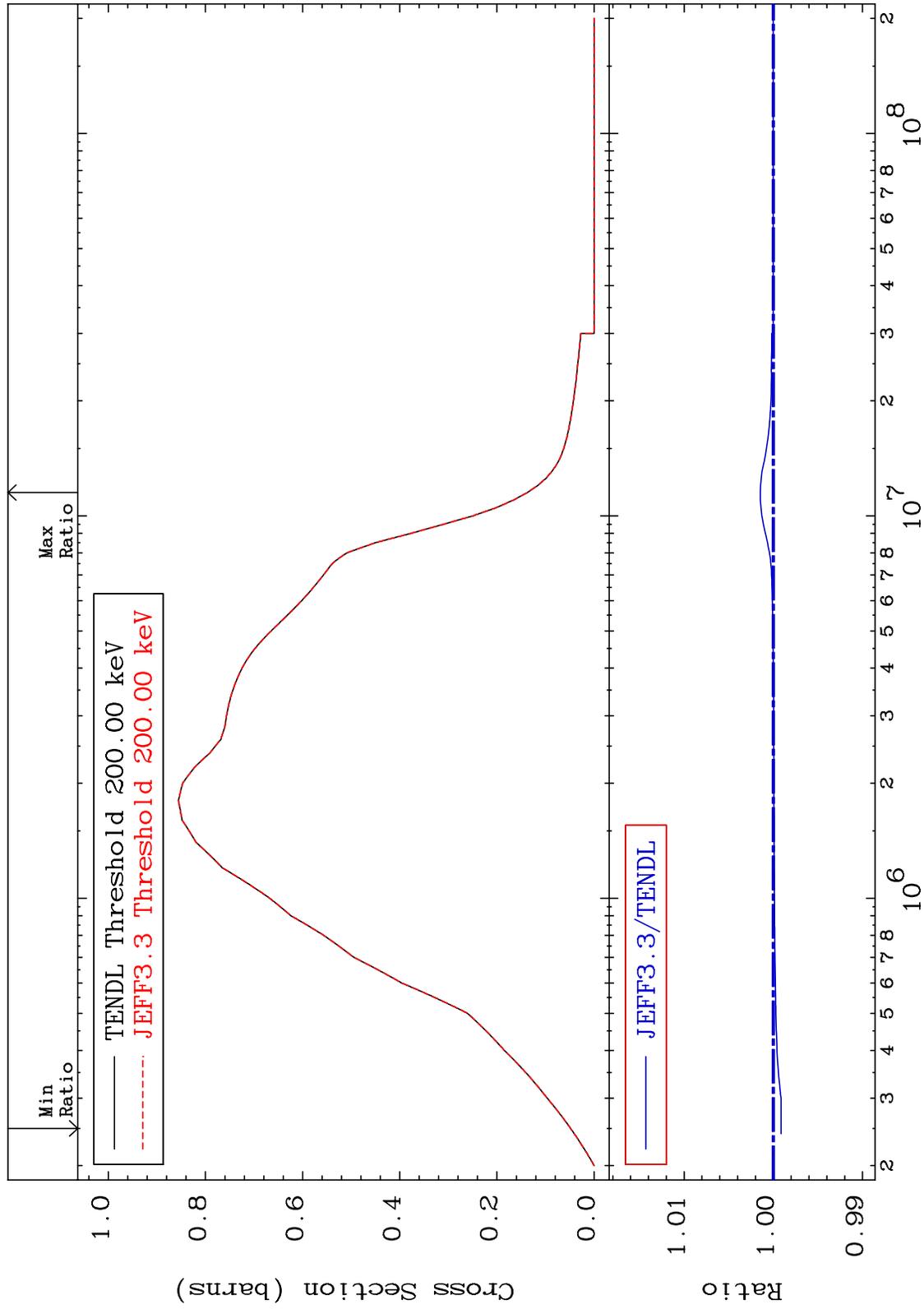


MAT 3434

34-Se-77

Inelastic: 34-Se-77g

Radionuclide Production Cross Section -0.086 To 0.145 %

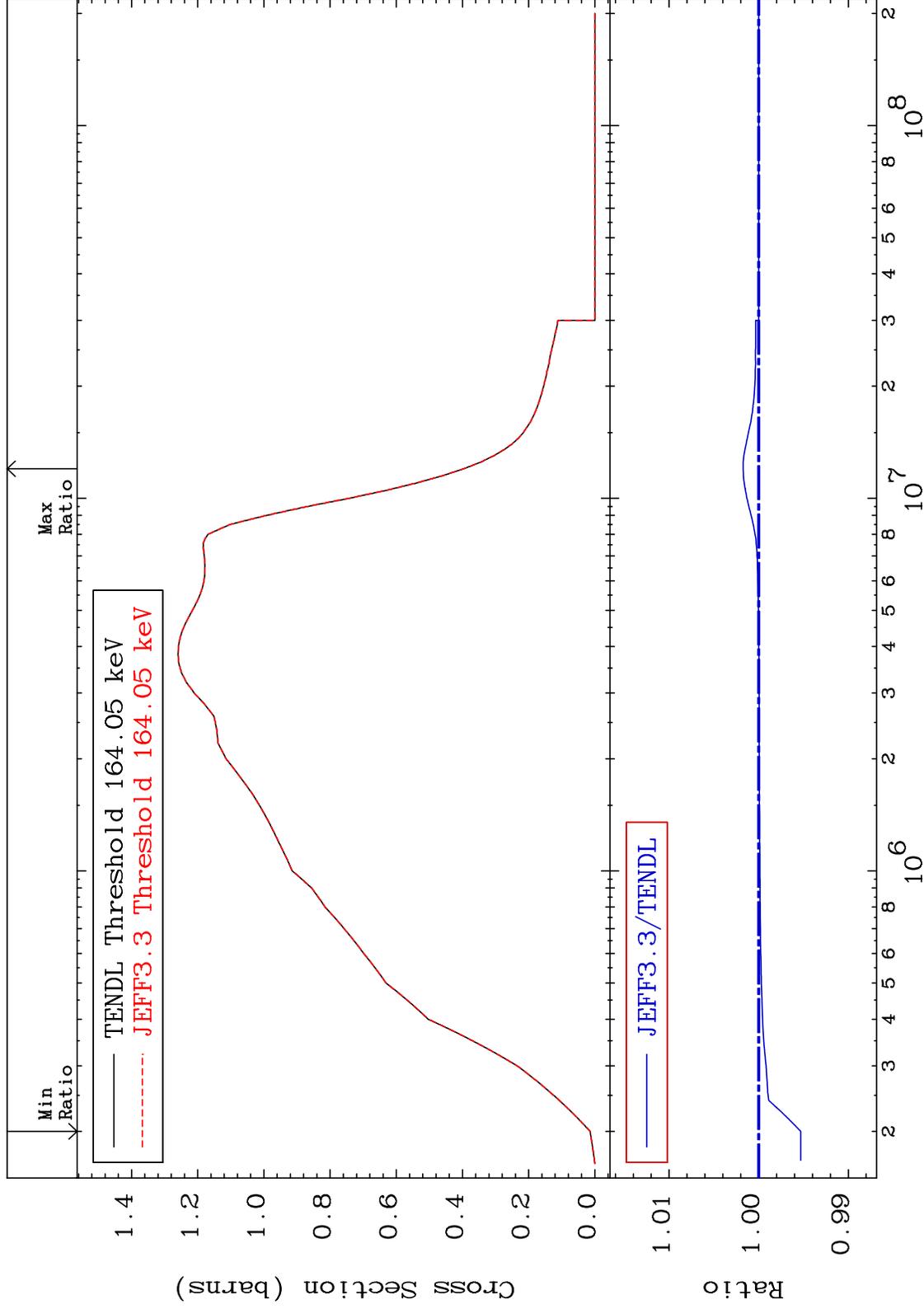


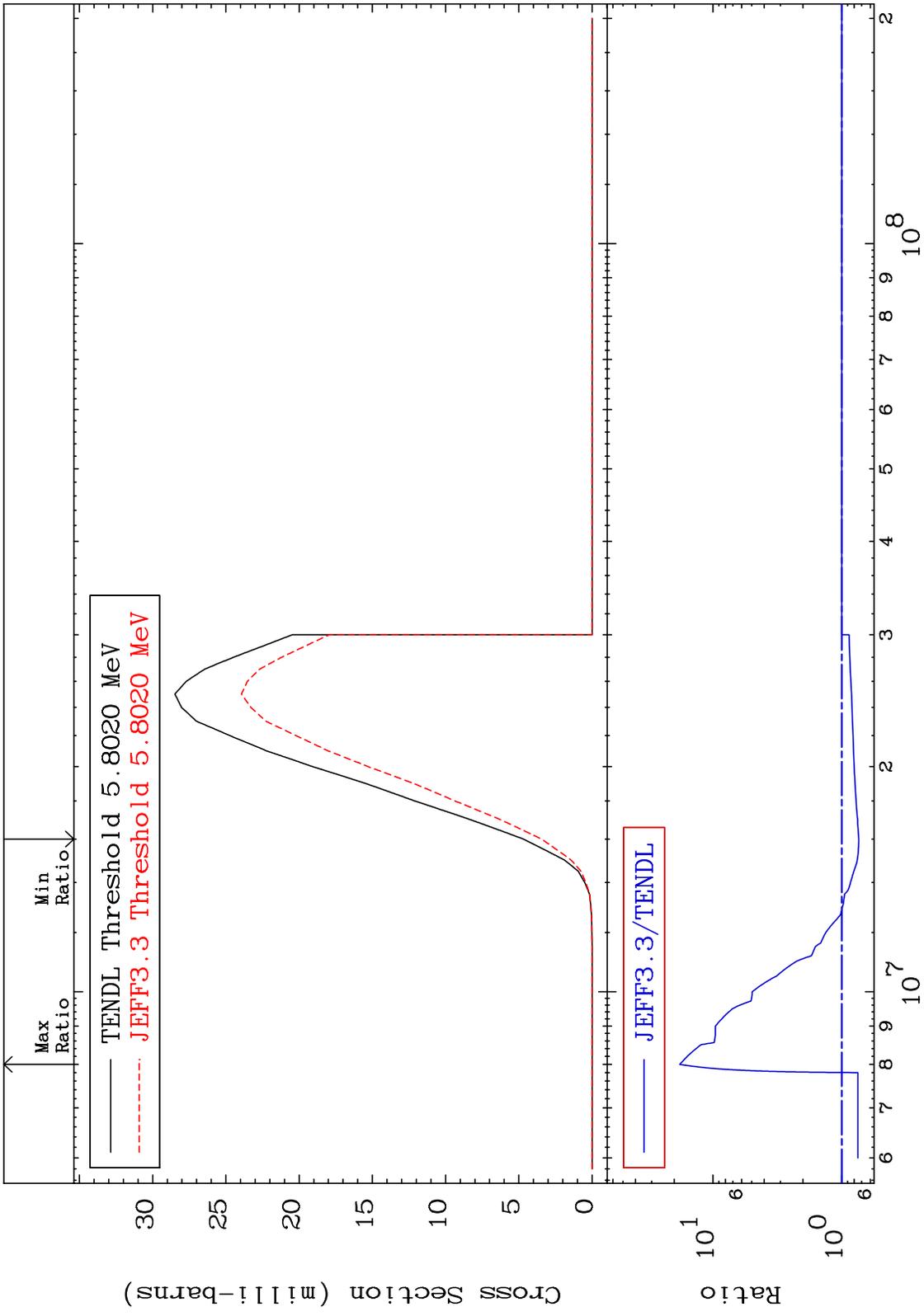
MAT 3434

Inelastic: 34-Se-77m1

34-Se-77

Radionuclide Production Cross Section -0.469 To 0.174 %



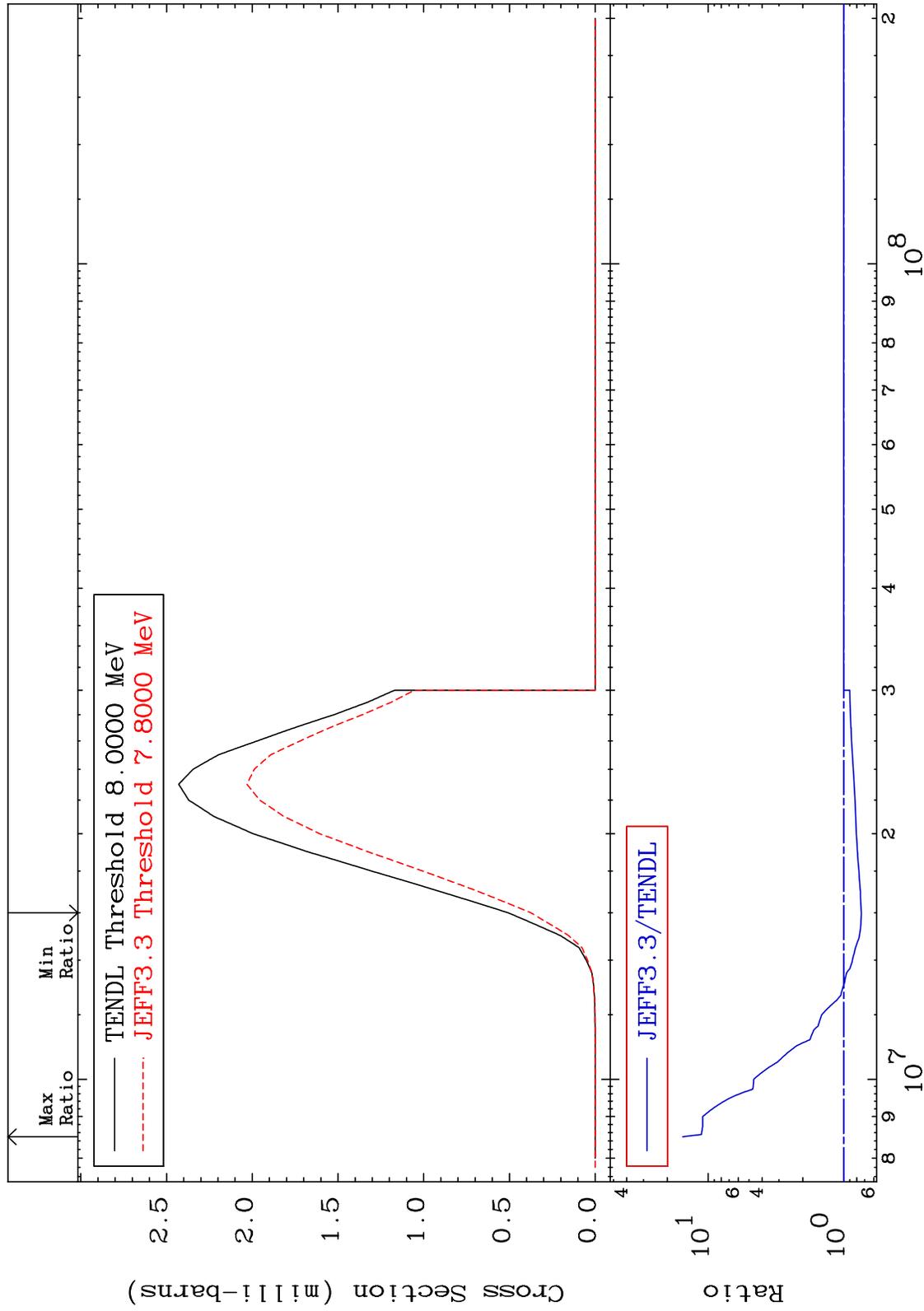


MAT 3434

(n, n') α :32-Ge-73m2

34-Se-77

Radionuclide Production Cross Section -26.04 To 1443. %

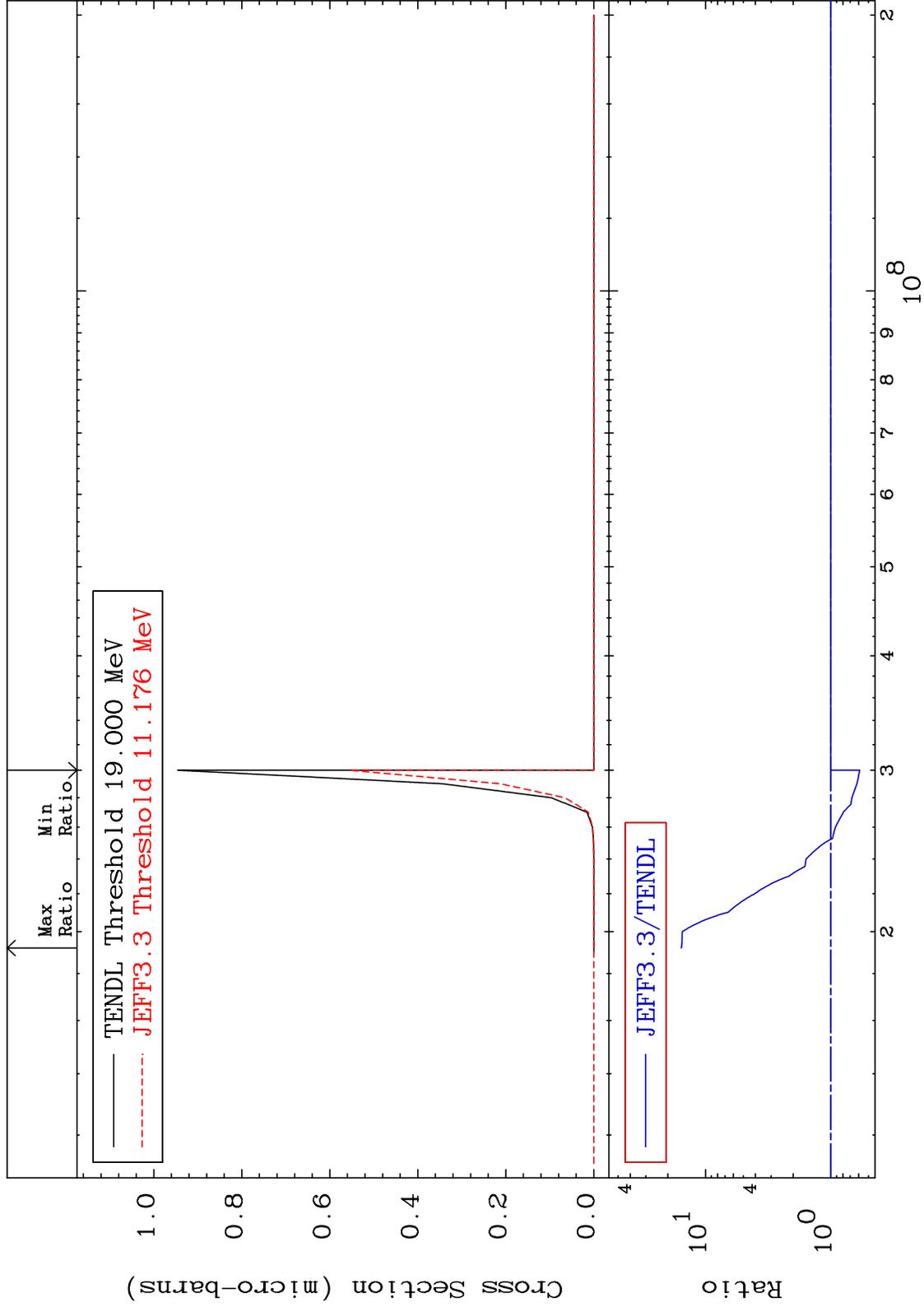


MAT 3434

(n, n') $^{2\alpha:30}\text{Zn-69g}$

$^{34}\text{Se-77}$

Radionuclide Production Cross Section -41.33 To 1465. %

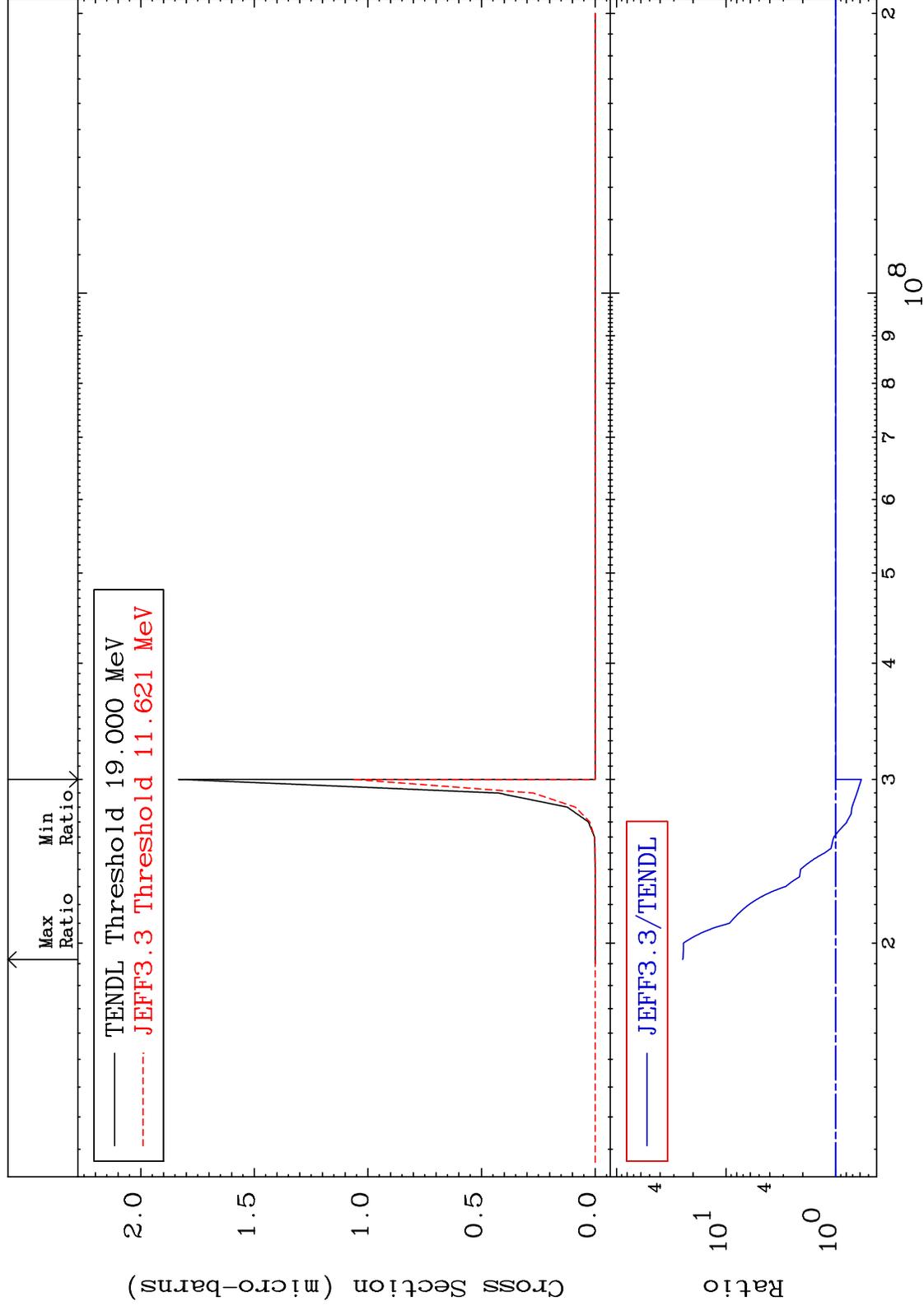


MAT 3434

(n,n') 2α:30-Zn-69m1

34-Se-77

Radionuclide Production Cross Section -41.74 To 2393. %

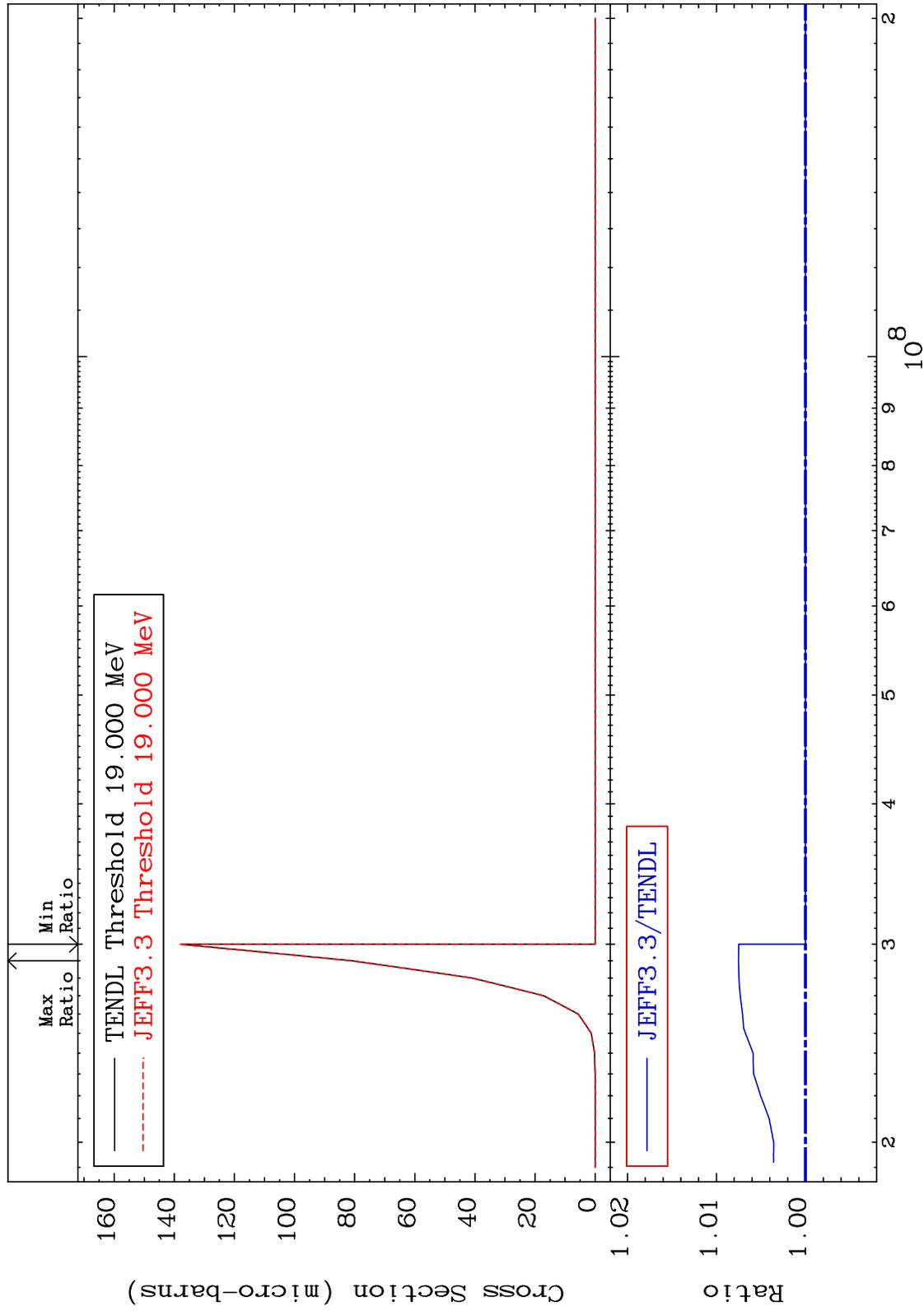


MAT 3434

(n,2n) p:32-Ge-75m2

34-Se-77

Radionuclide Production Cross Section 0.000 To 0.752 %

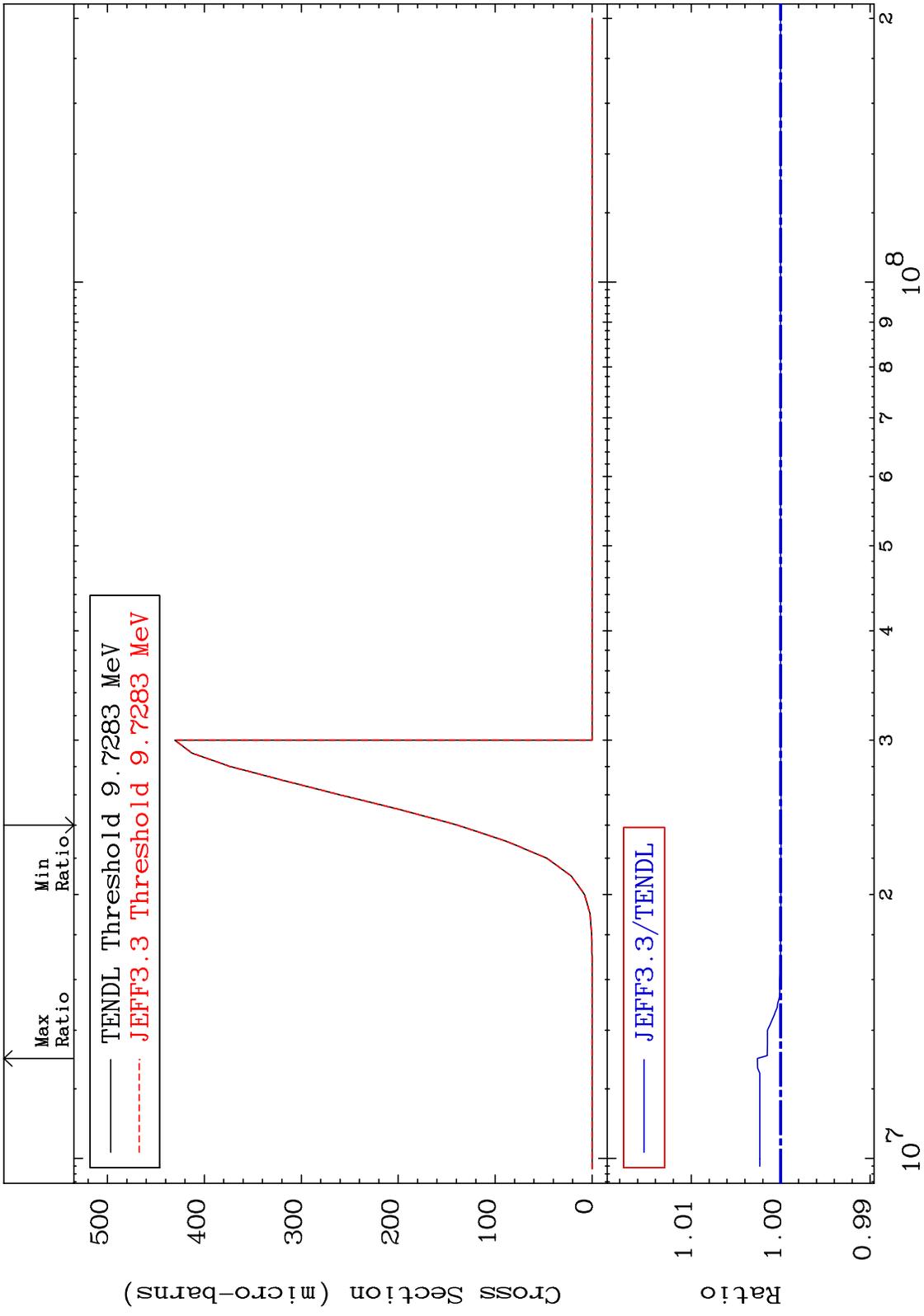


87

Incident Energy (eV)

34-Se-77

MAT 3434 (n,He-3) : 32-Ge-75g 34-Se-77
Radionuclide Production Cross Section -0.004 To 0.259 %

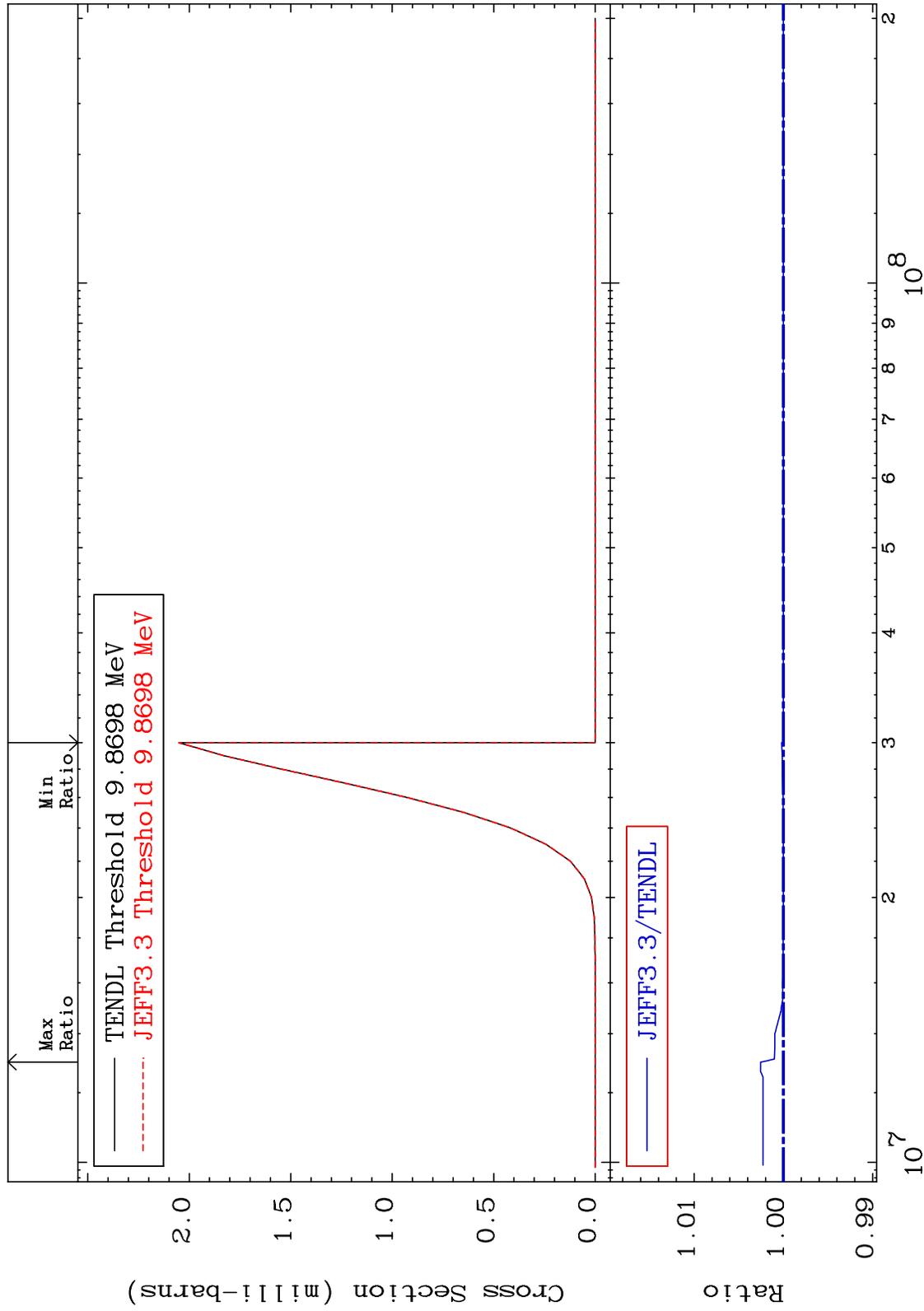


MAT 3434

(n, He-3) : 32-Ge-75m2

34-Se-77

Radionuclide Production Cross Section 0.000 To 0.255 %



89

Incident Energy (eV)

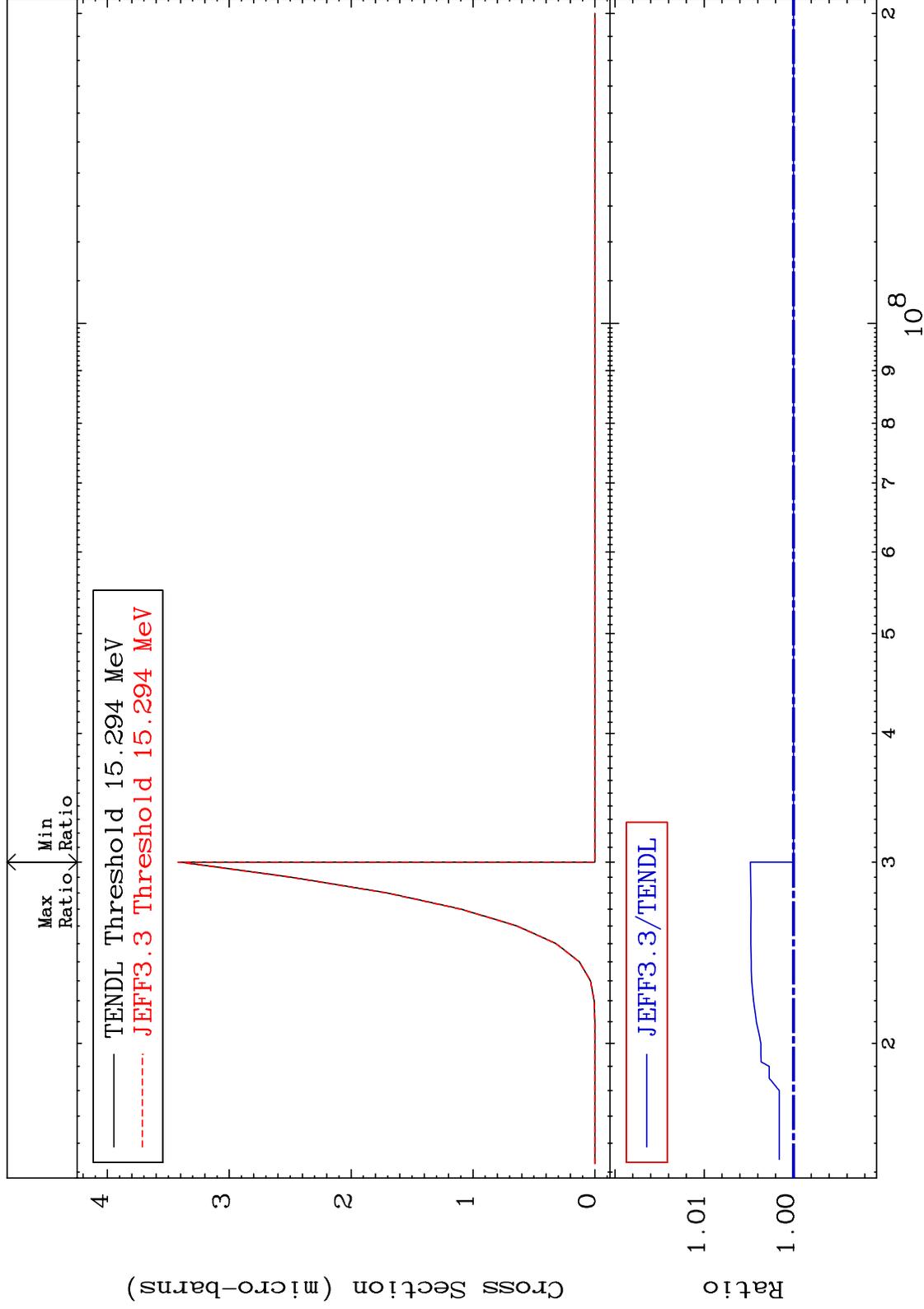
34-Se-77

MAT 3434

(n, p) d:32-Ge-75g

34-Se-77

Radionuclide Production Cross Section 0.000 To 0.483 %



90

Incident Energy (eV)

34-Se-77

MAT 3434

(n, p) d:32-Ge-75m2

34-Se-77

Radionuclide Production Cross Section 0.000 To 0.513 %

