

Program Complot
(Version 2018-1)

by

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Press Mouse Button to Start

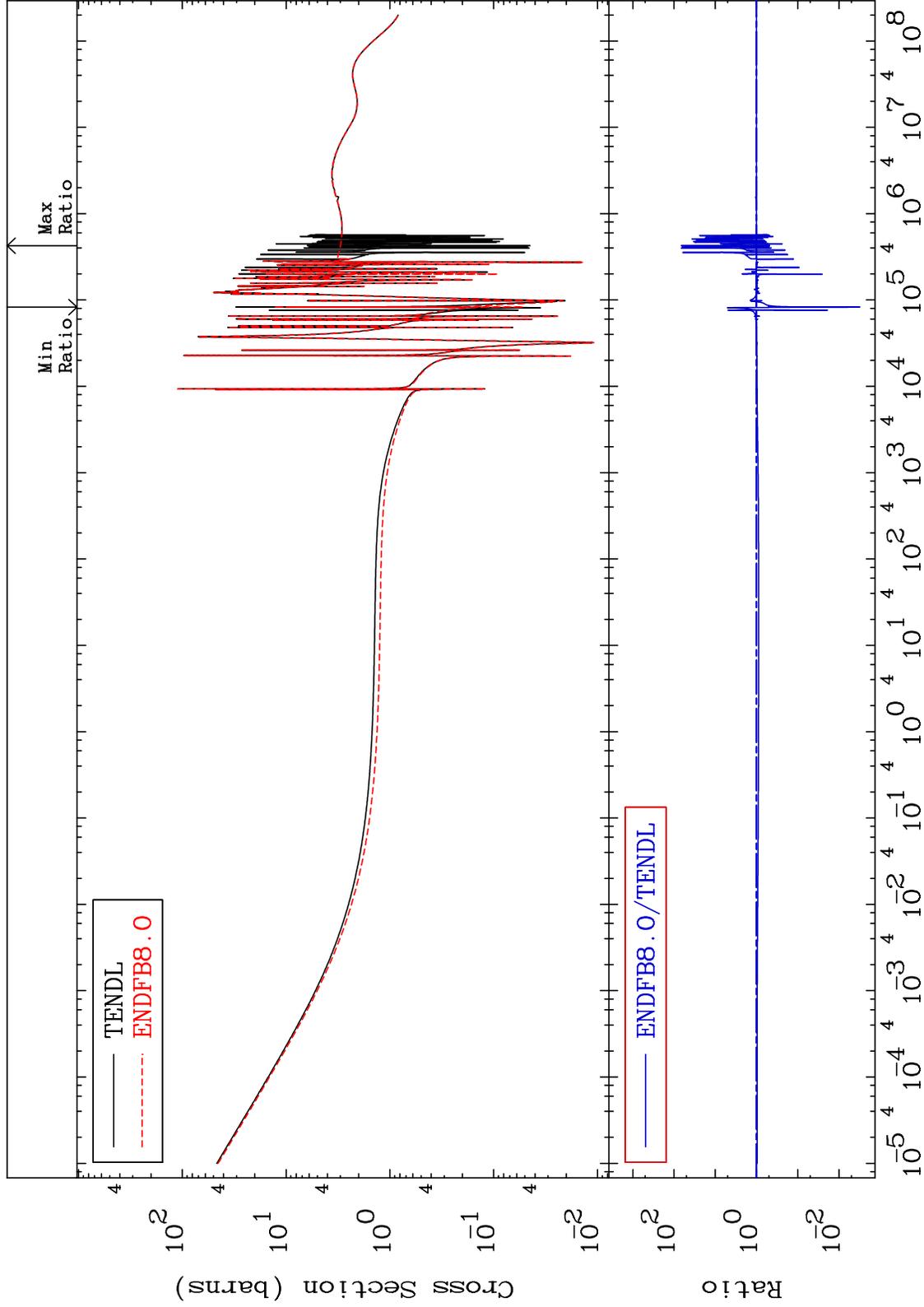
MAT 2031

Total

20-Ca-42

Cross Section

-99.69 To 6599. %



Incident Energy (eV)

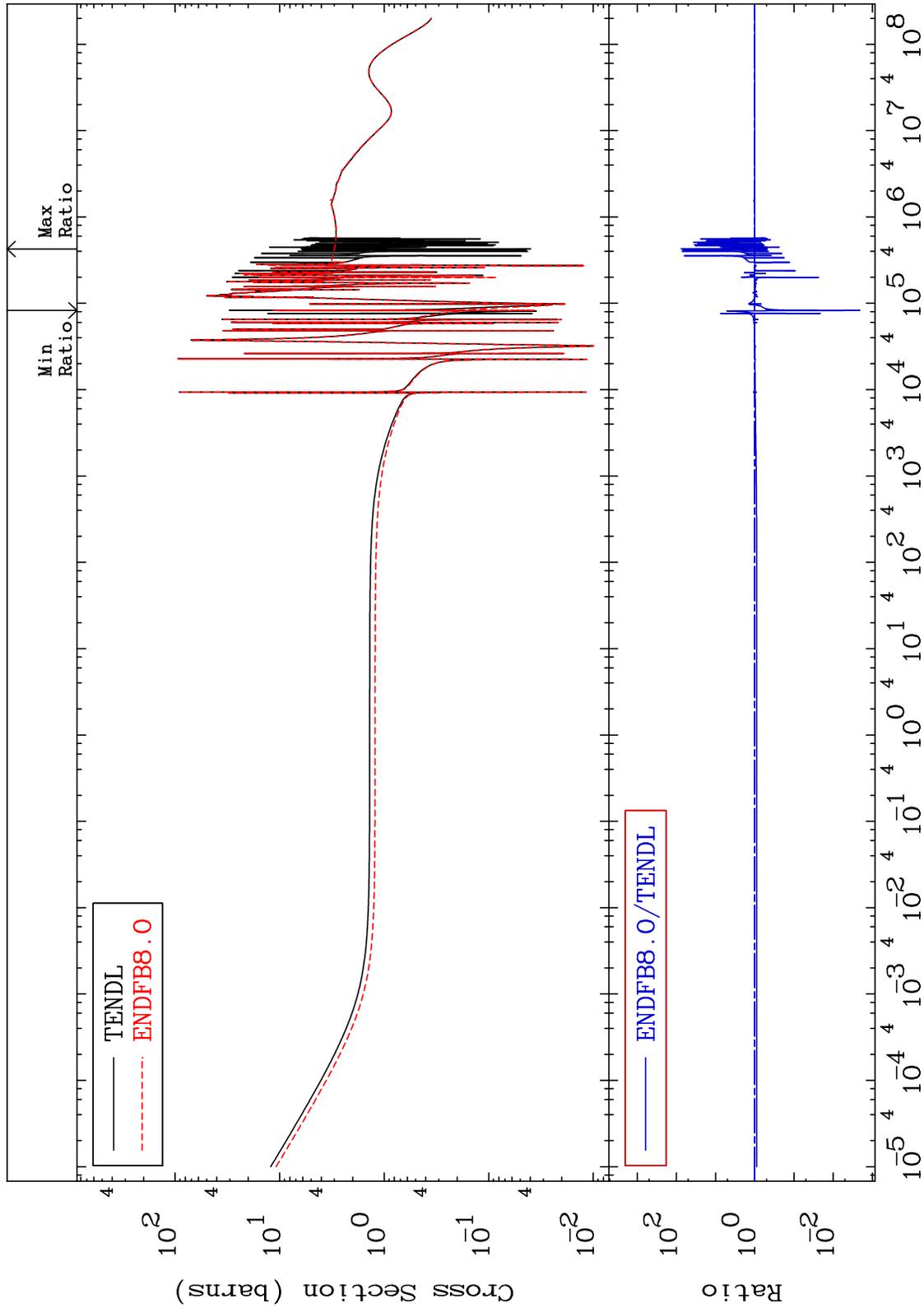
20-Ca-42

1

MAT 2031

Elastic
Cross Section

20-Ca-42
-99.79 To 7427. %



MAT 2031

Inelastic
Cross Section

20-Ca-42
-100.0 To 3.228 %

Max Ratio
Min Ratio

TENDL Threshold 1.5614 MeV
ENDFB8.0 Threshold 1.5614 MeV

Cross Section (barns)

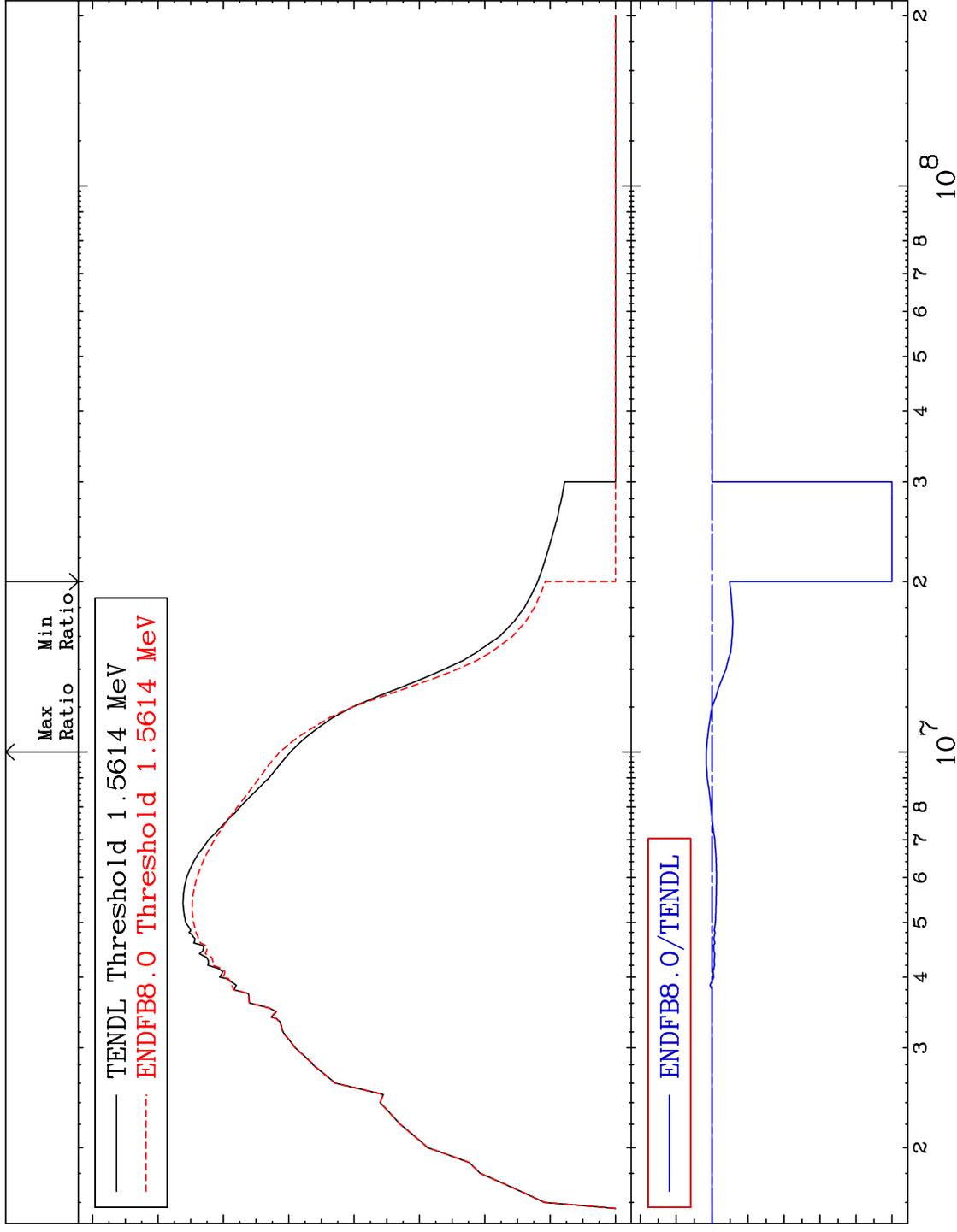
ENDFB8.0/TENDL

Ratio

3

Incident Energy (eV)

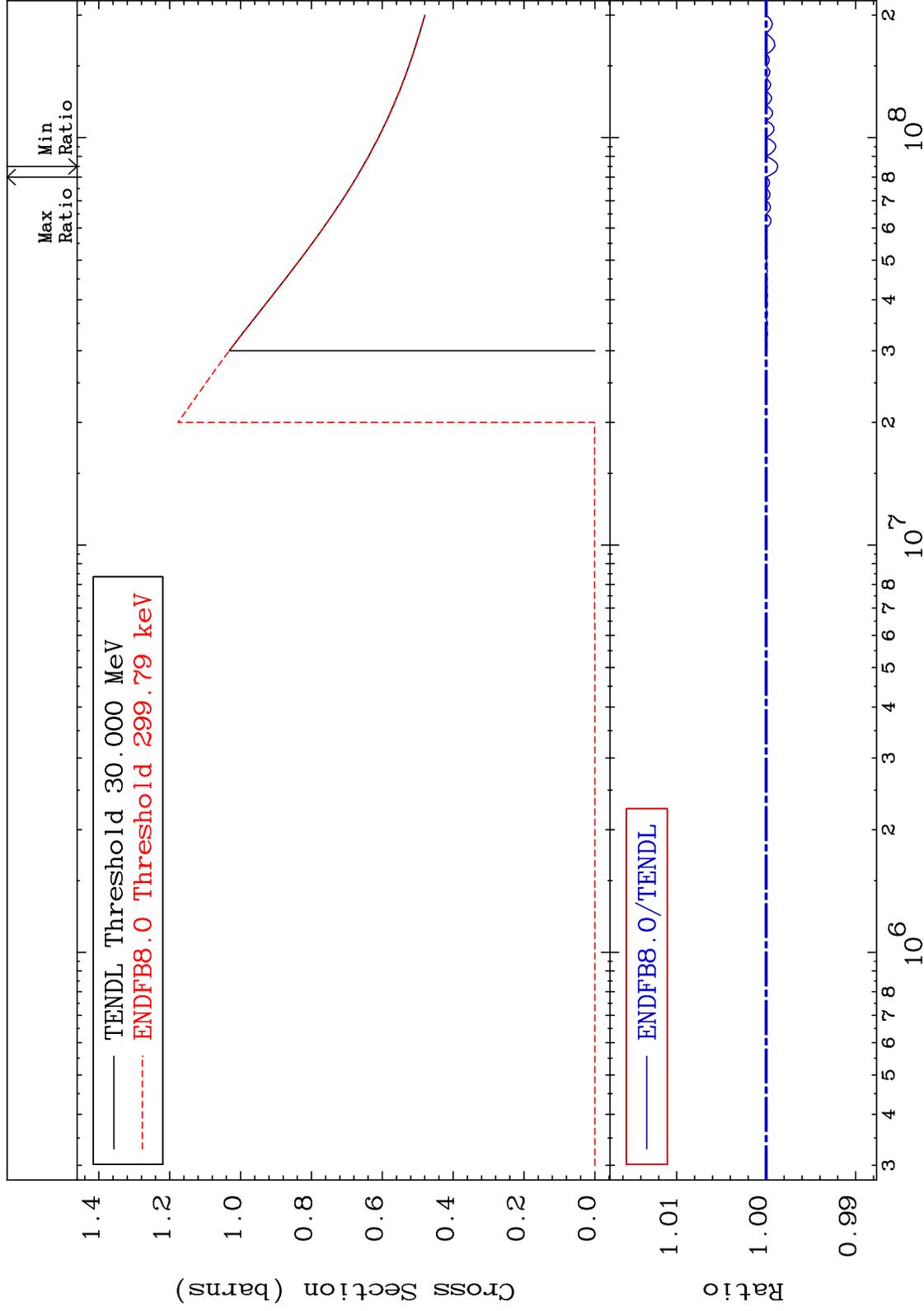
20-Ca-42



MAT 2031

(n, remainder)
Cross Section

20-Ca-42
-0.129 To 0.000 %

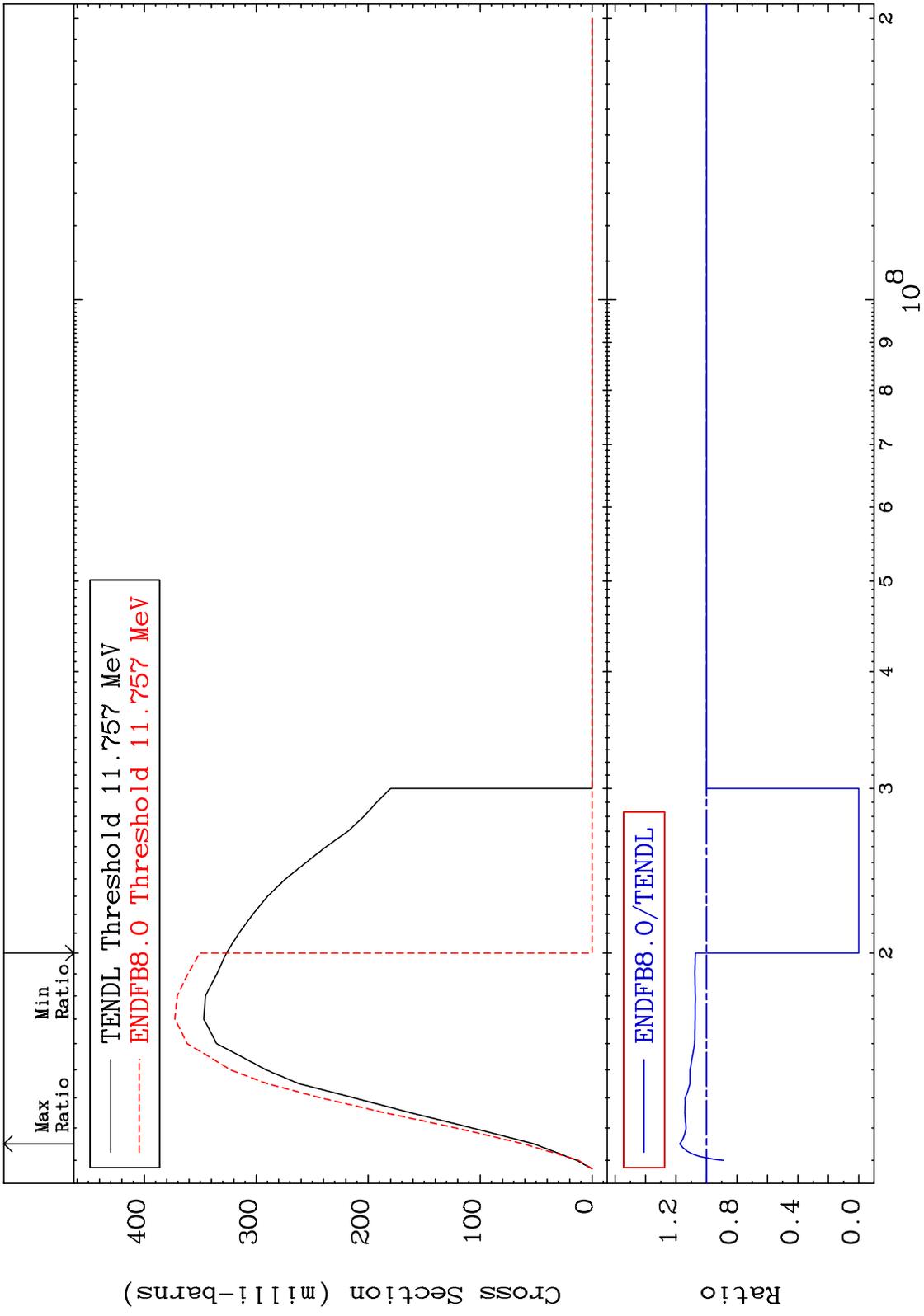


4

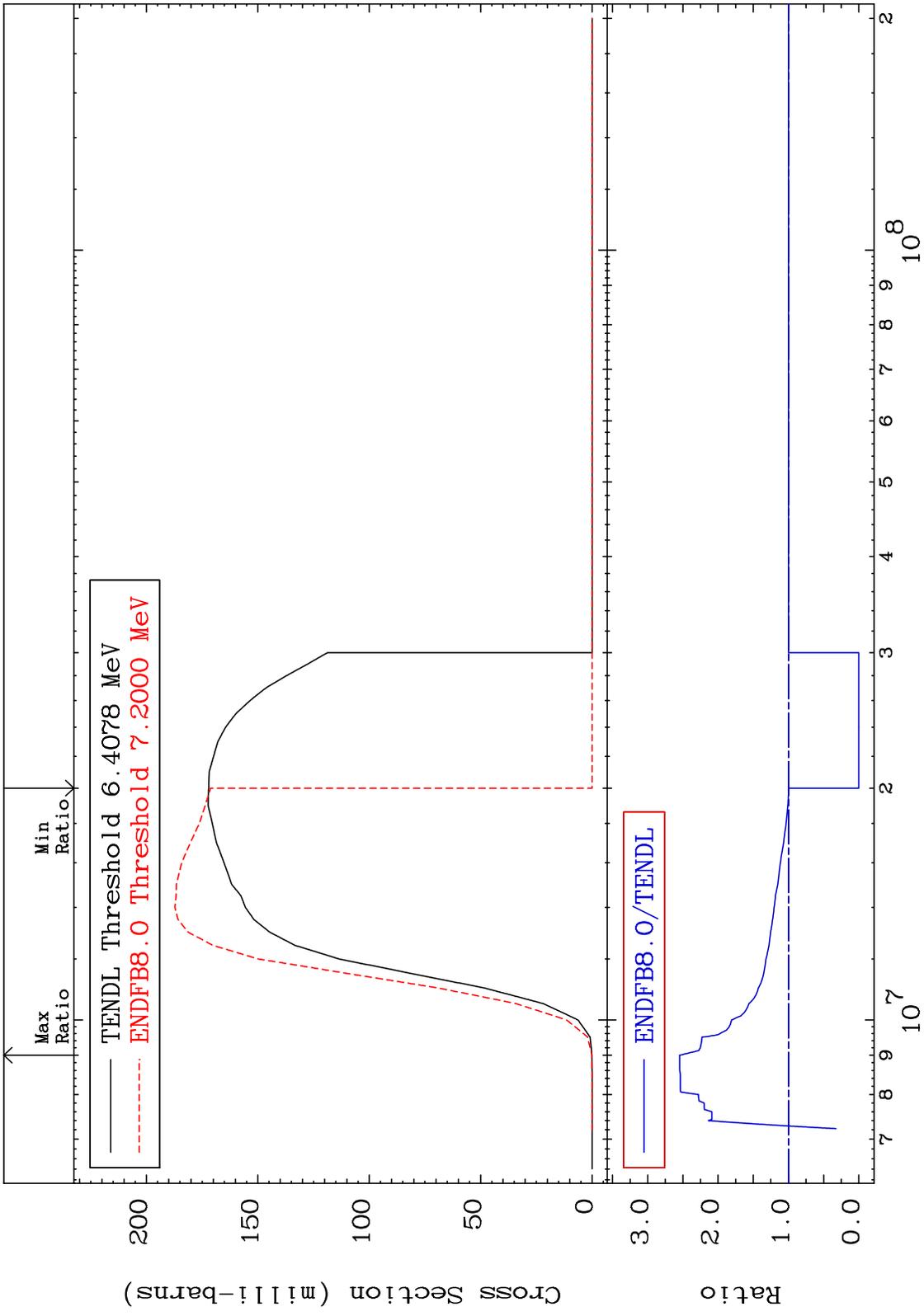
Incident Energy (eV)

20-Ca-42

MAT 2031 (n,2n) Cross Section 20-Ca-42 -100.0 To 17.58 %

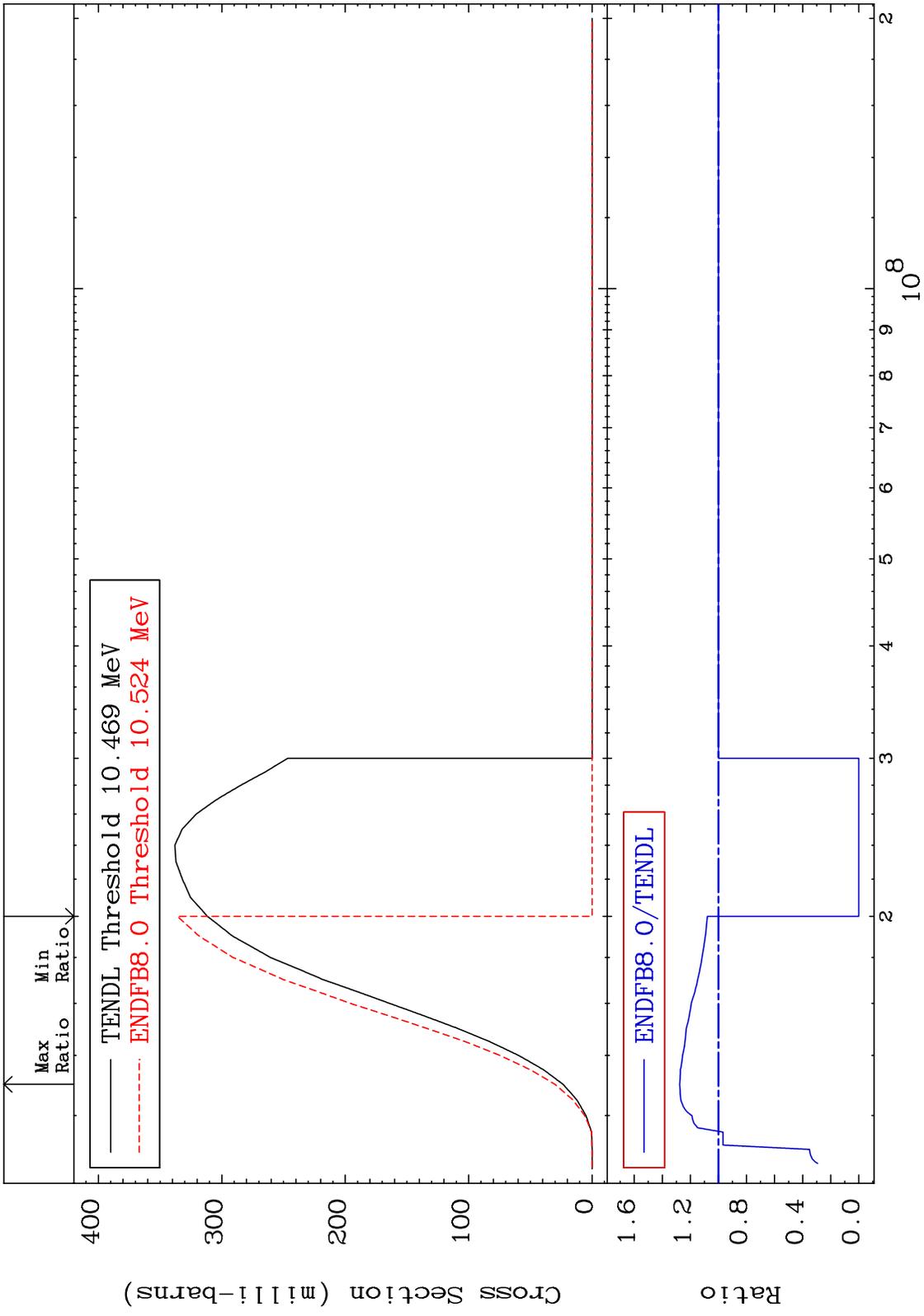


MAT 2031 $(n, n') \alpha$ 20-Ca-42
Cross Section -100.0 To 154.5 %

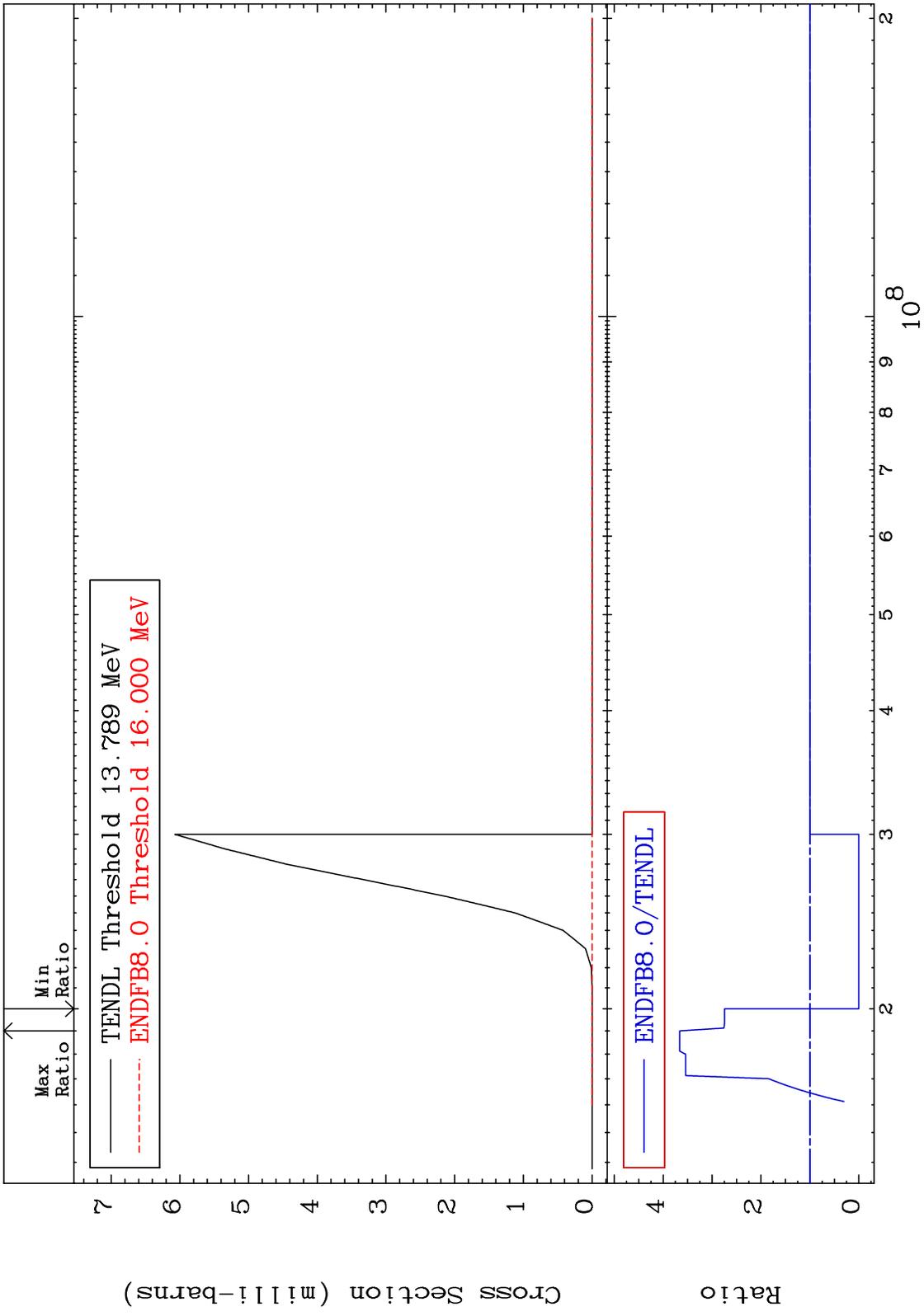


6 Incident Energy (eV) 20-Ca-42

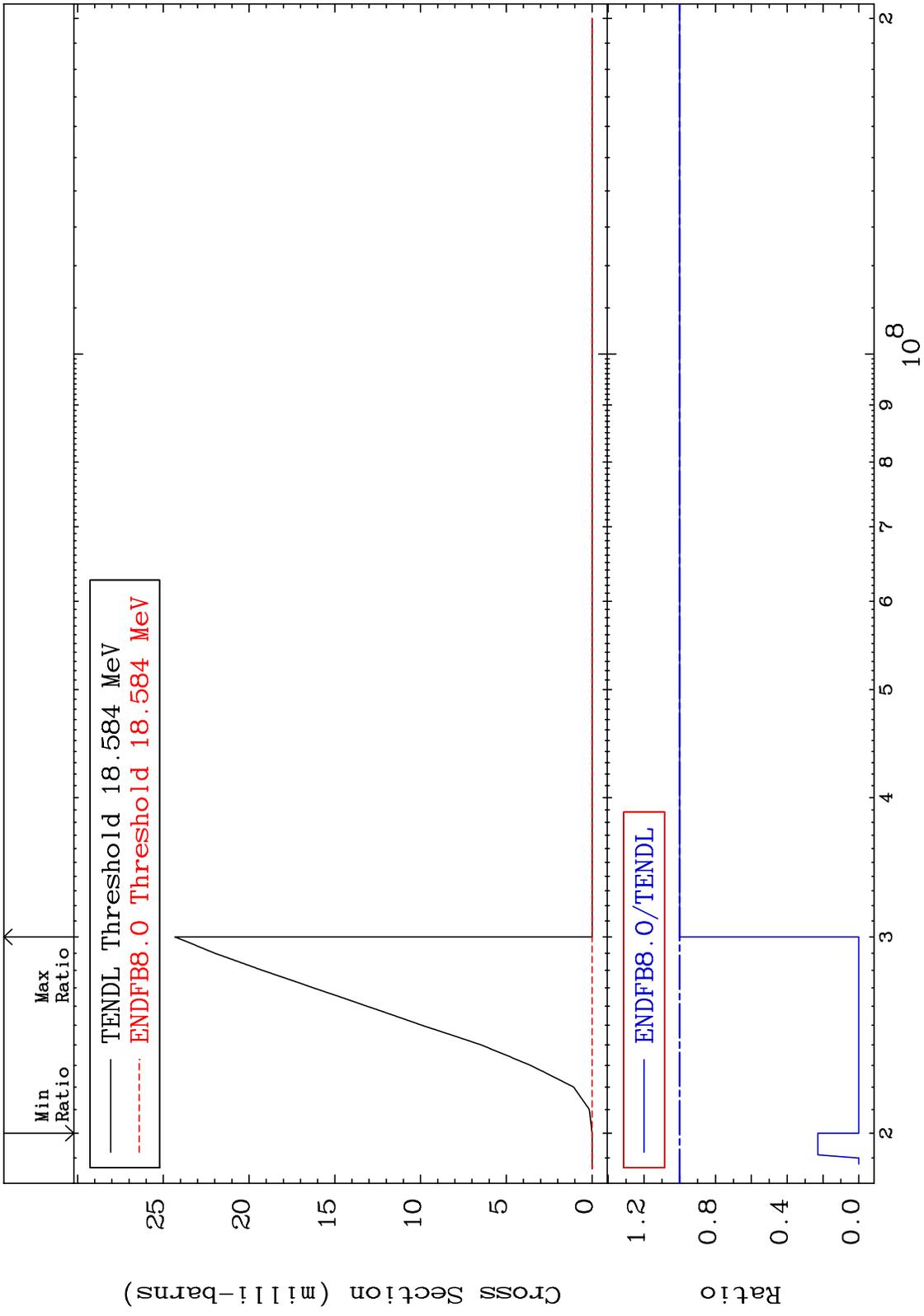
MAT 2031 (n,n') p 20-Ca-42
 Cross Section -100.0 To 27.56 %



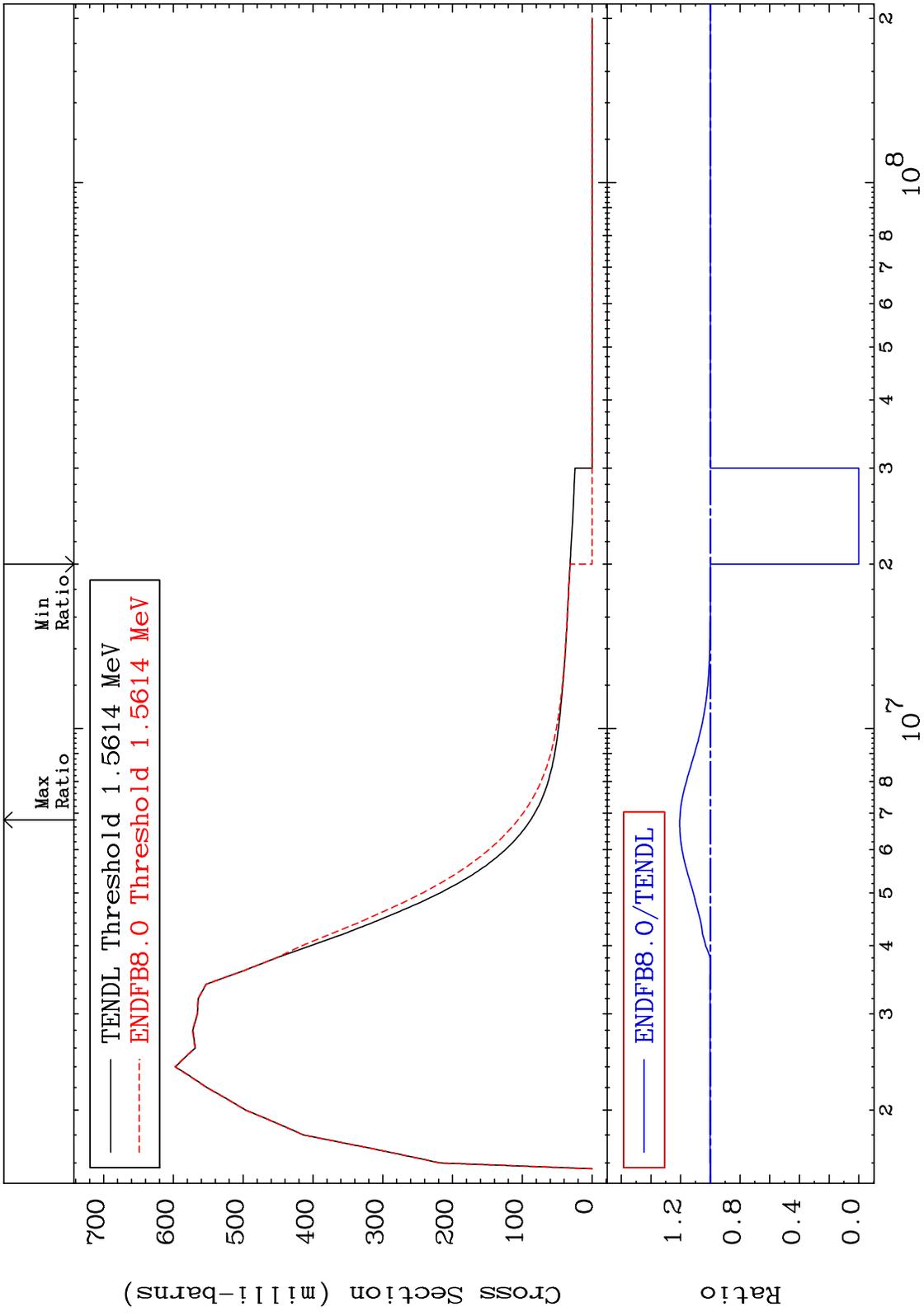
MAT 2031 (n,n') 2α Cross Section 20-Ca-42 -100.0 To 266.1 %



MAT 2031 (n,n') d 20-Ca-42
 Cross Section -100.0 To 0.000 %

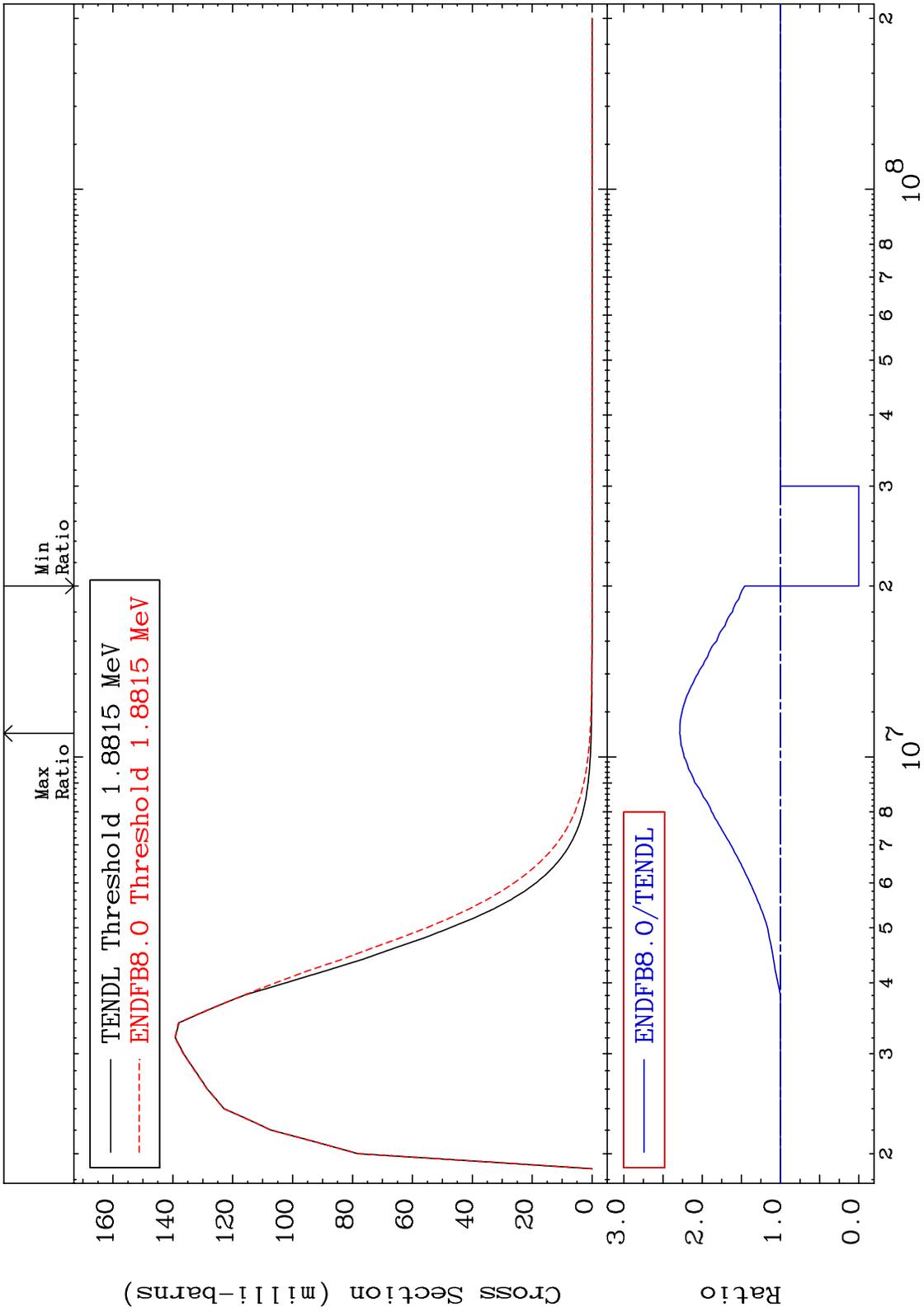


MAT 2031 MT= 51 (n,n') Level Cross Section -100.0 To 20.57 % 20-Ca-42

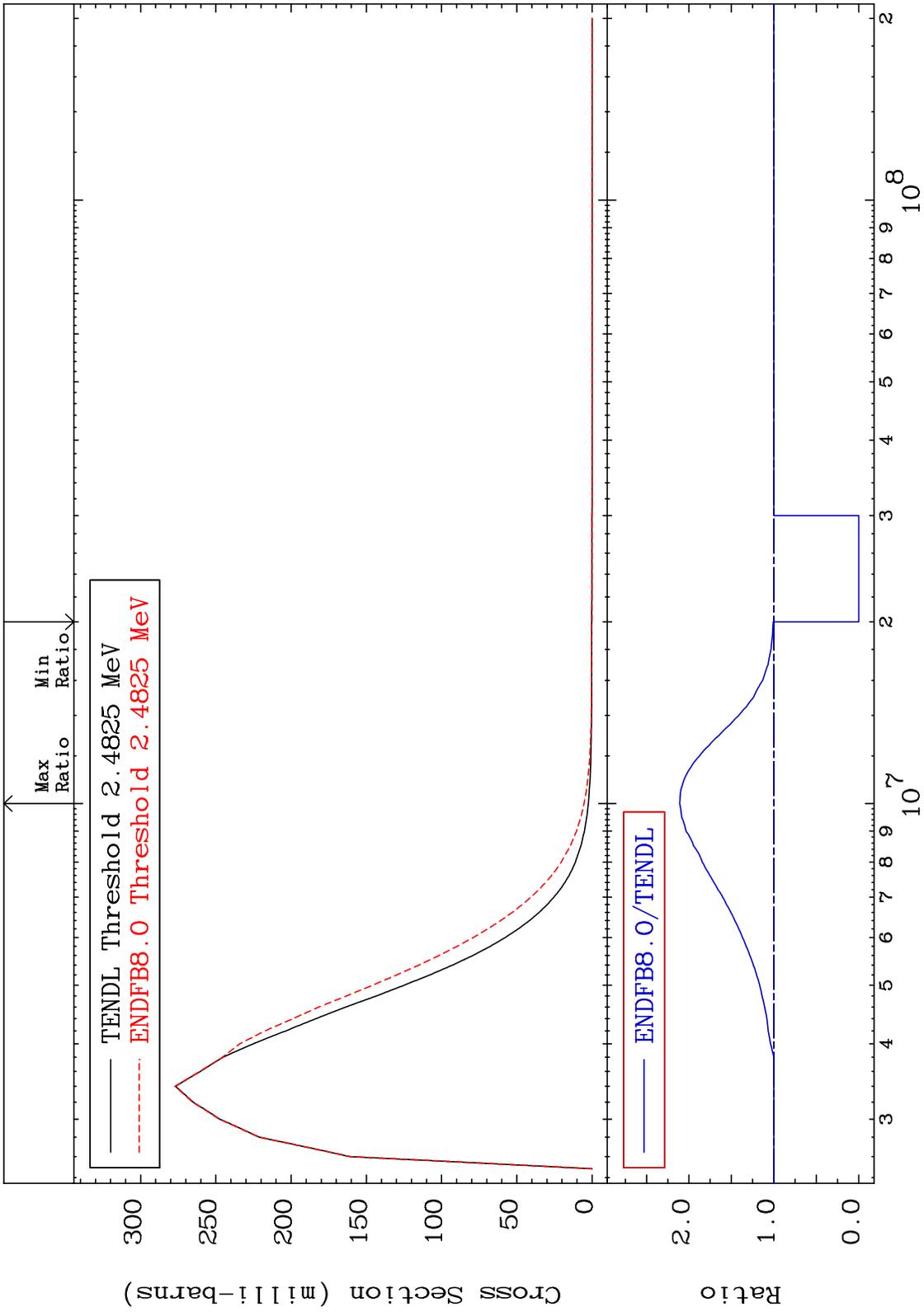


10 Incident Energy (eV) 20-Ca-42

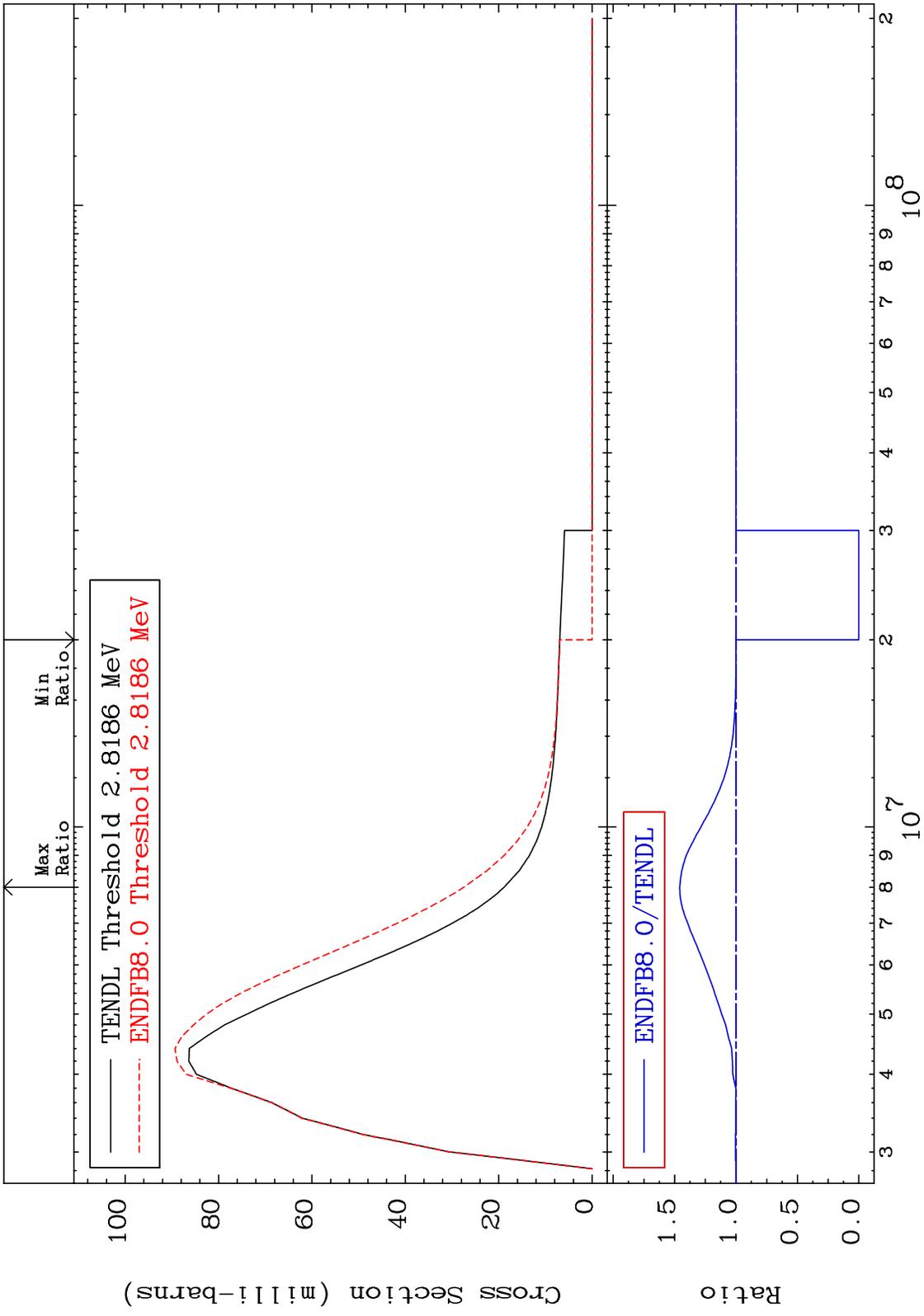
MAT 2031 MT= 52 (n,n') Level Cross Section -100.0 To 128.6 % 20-Ca-42



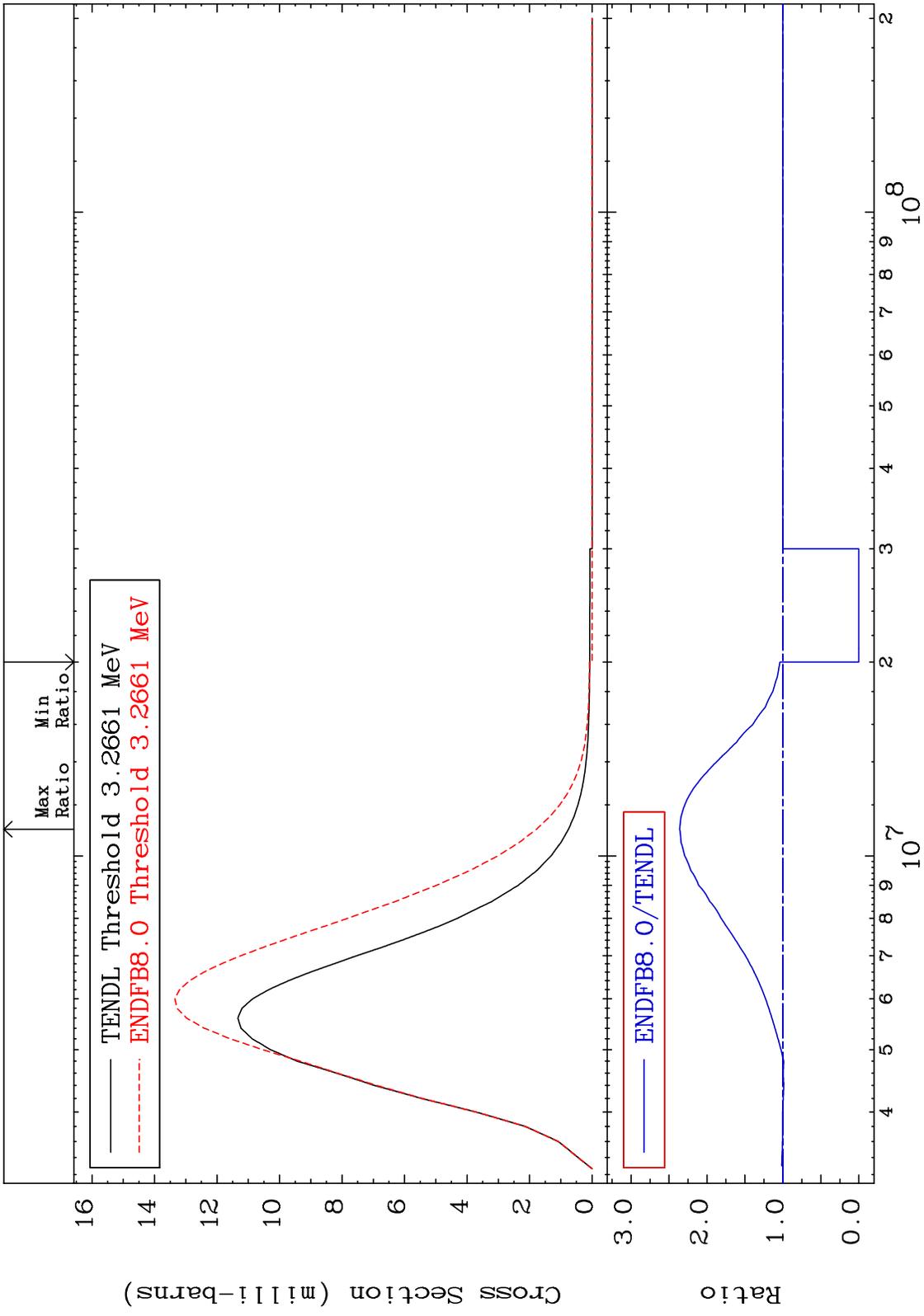
MAT 2031 MT= 53 (n,n') Level Cross Section -100.0 To 110.9 % 20-Ca-42



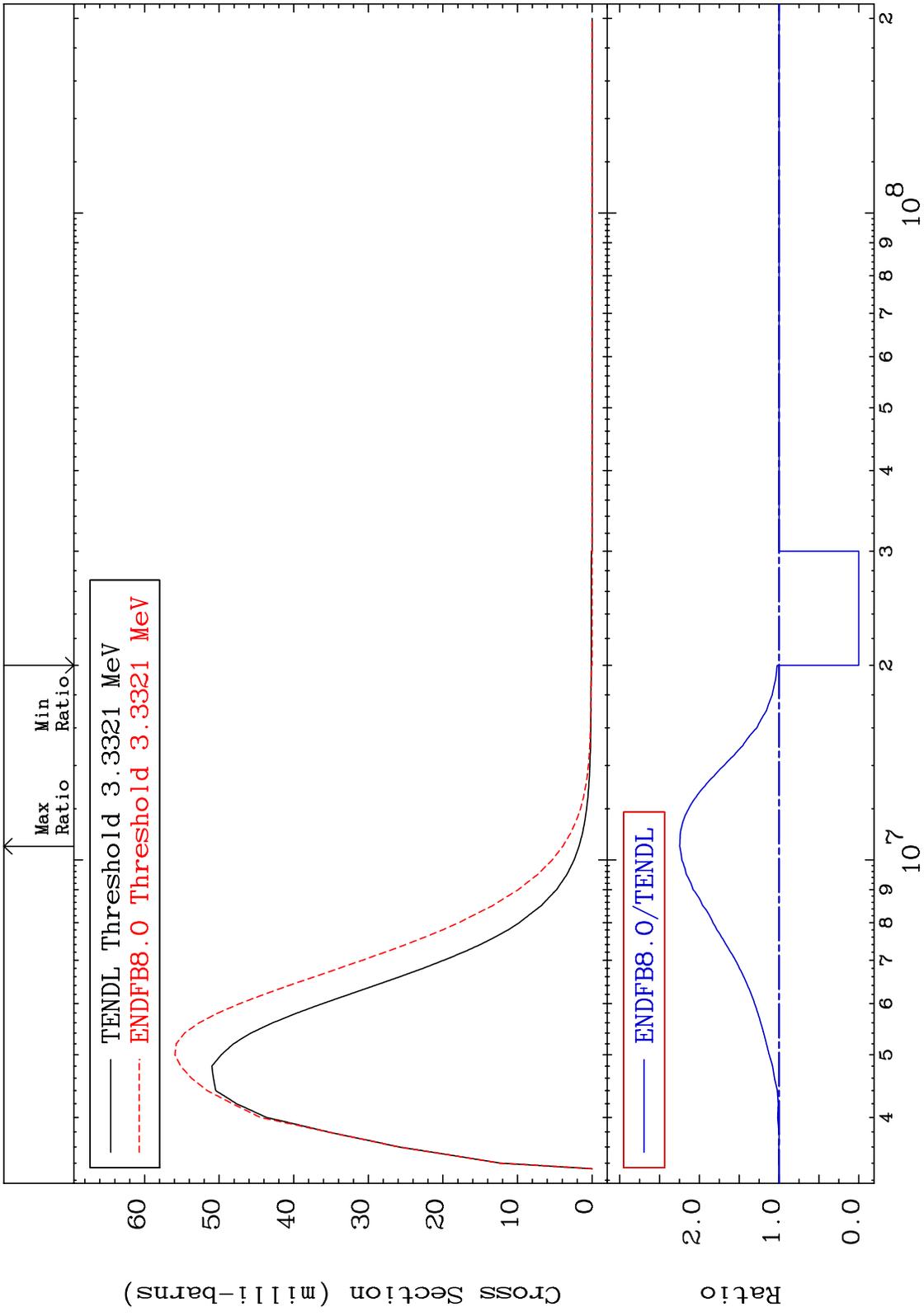
MAT 2031 MT= 54 (n,n') Level Cross Section -100.0 To 45.82 % 20-Ca-42



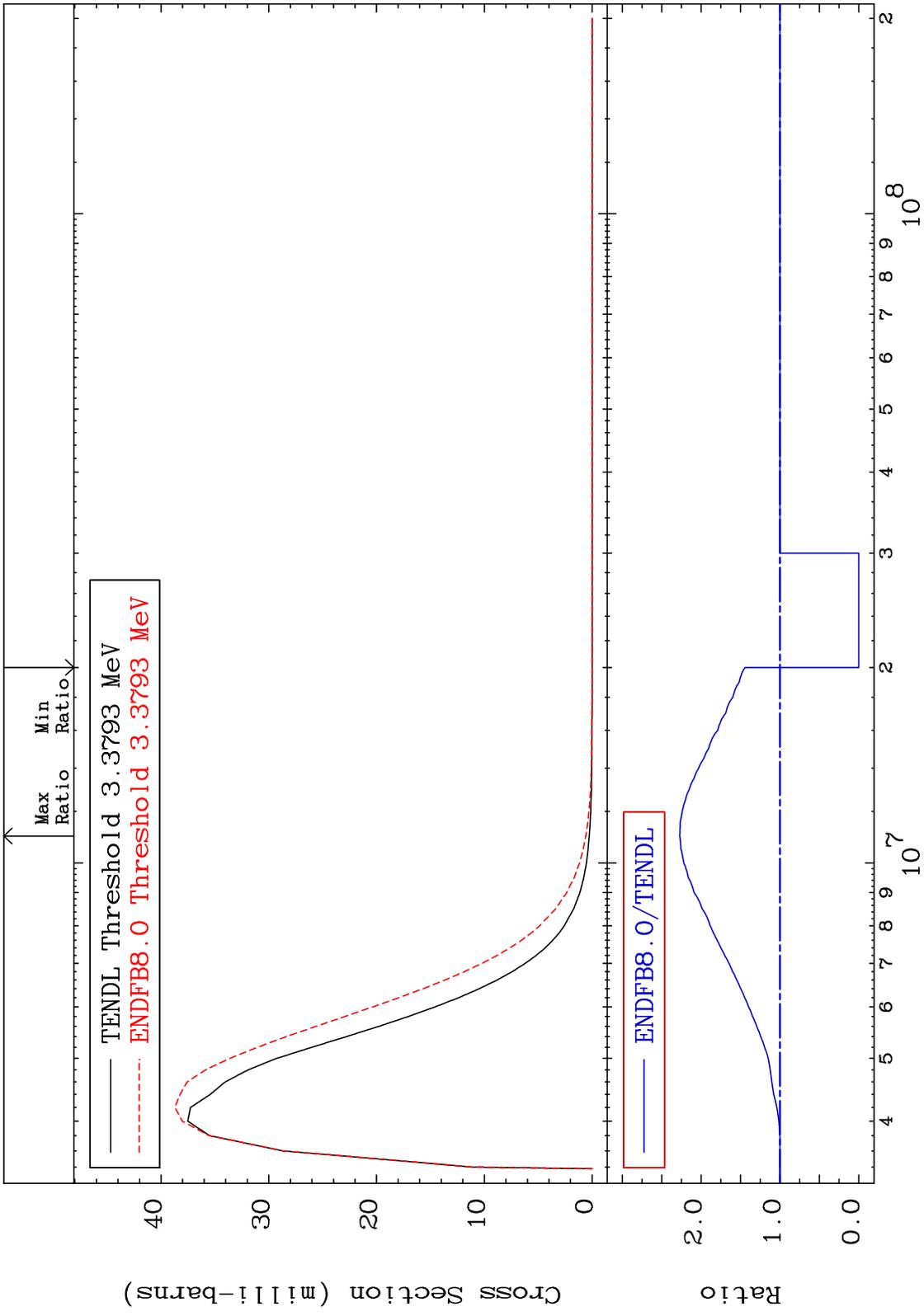
MAT 2031 MT= 55 (n,n') Level Cross Section -100.0 To 135.9 % 20-Ca-42



MAT 2031 MT= 56 (n,n') Level Cross Section -100.0 To 124.7 % 20-Ca-42



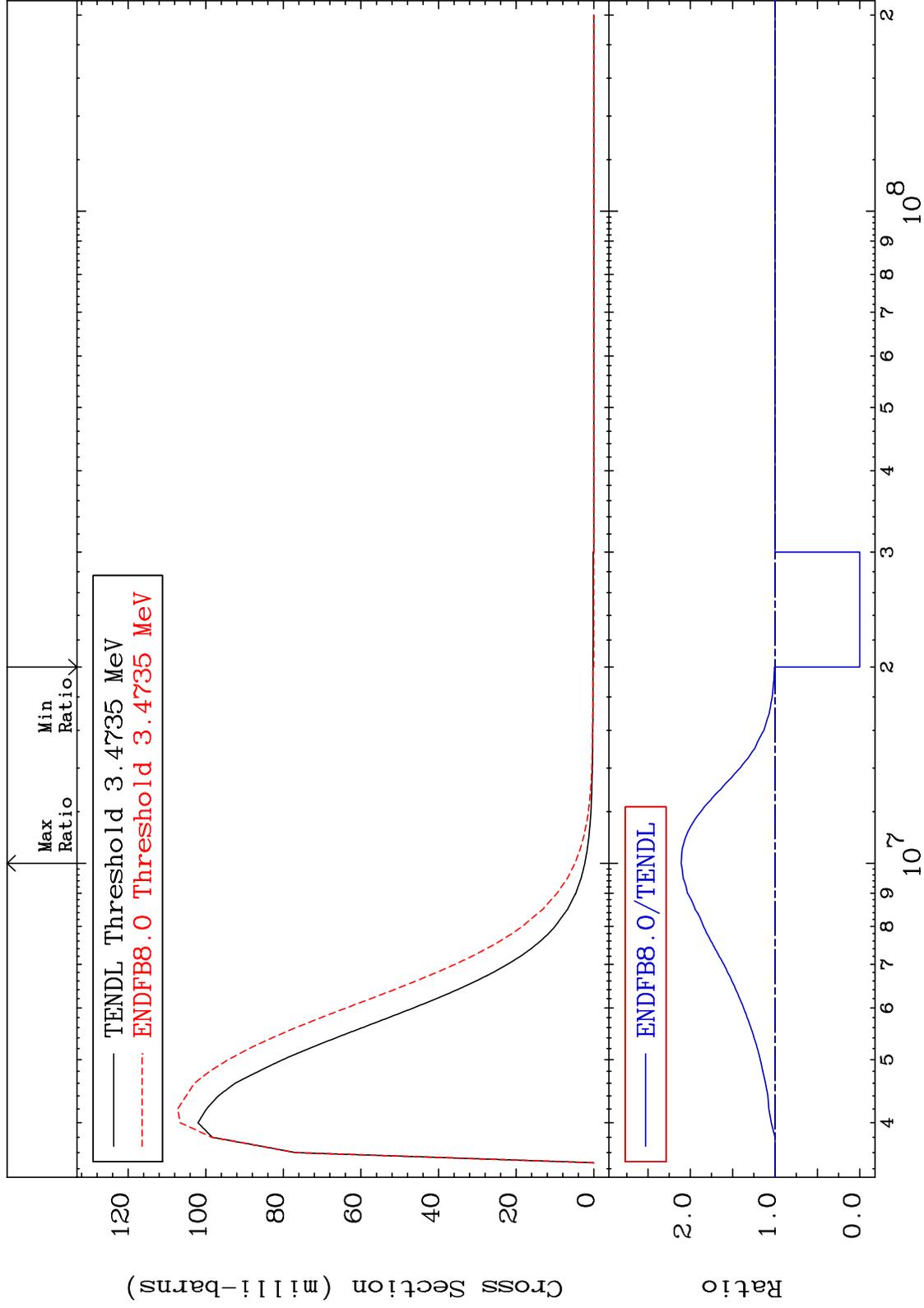
MAT 2031 MT= 57 (n,n') Level Cross Section -100.0 To 127.1 % 20-Ca-42



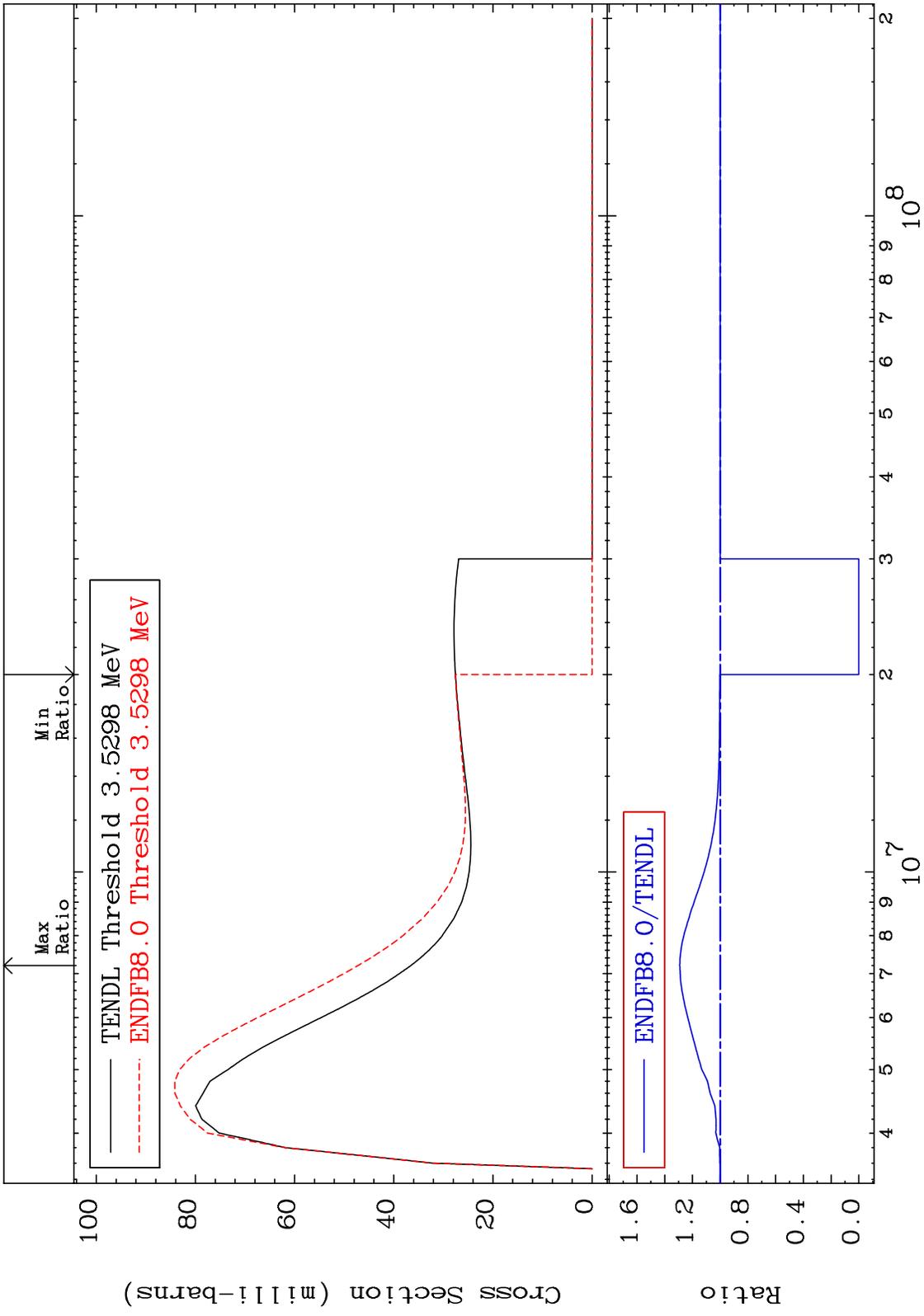
MAT 2031

MT= 58 (n,n') Level
Cross Section

20-Ca-42
-100.0 To 110.9 %



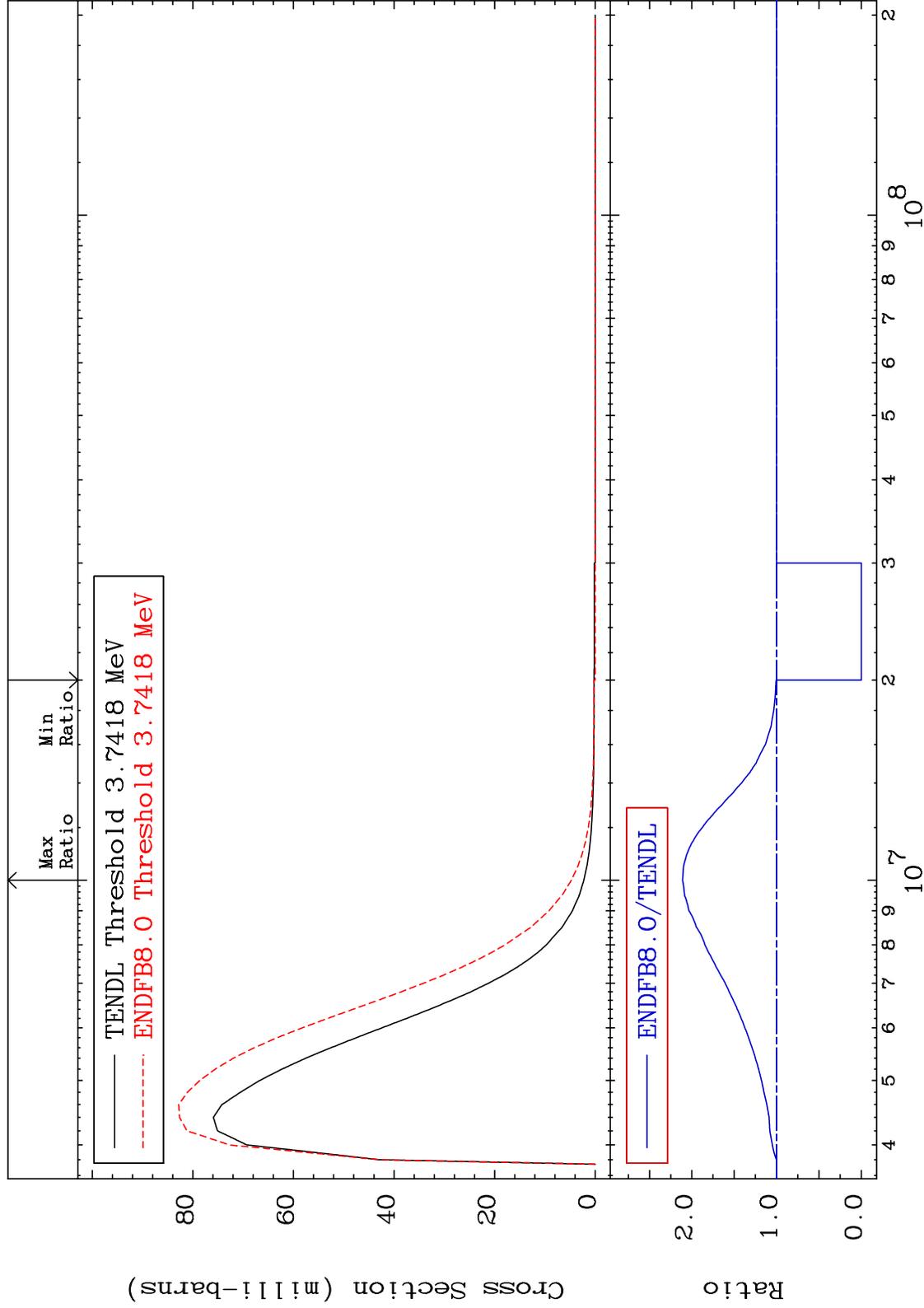
MAT 2031 MT= 59 (n,n') Level Cross Section -100.0 To 29.16 % 20-Ca-42



MAT 2031

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

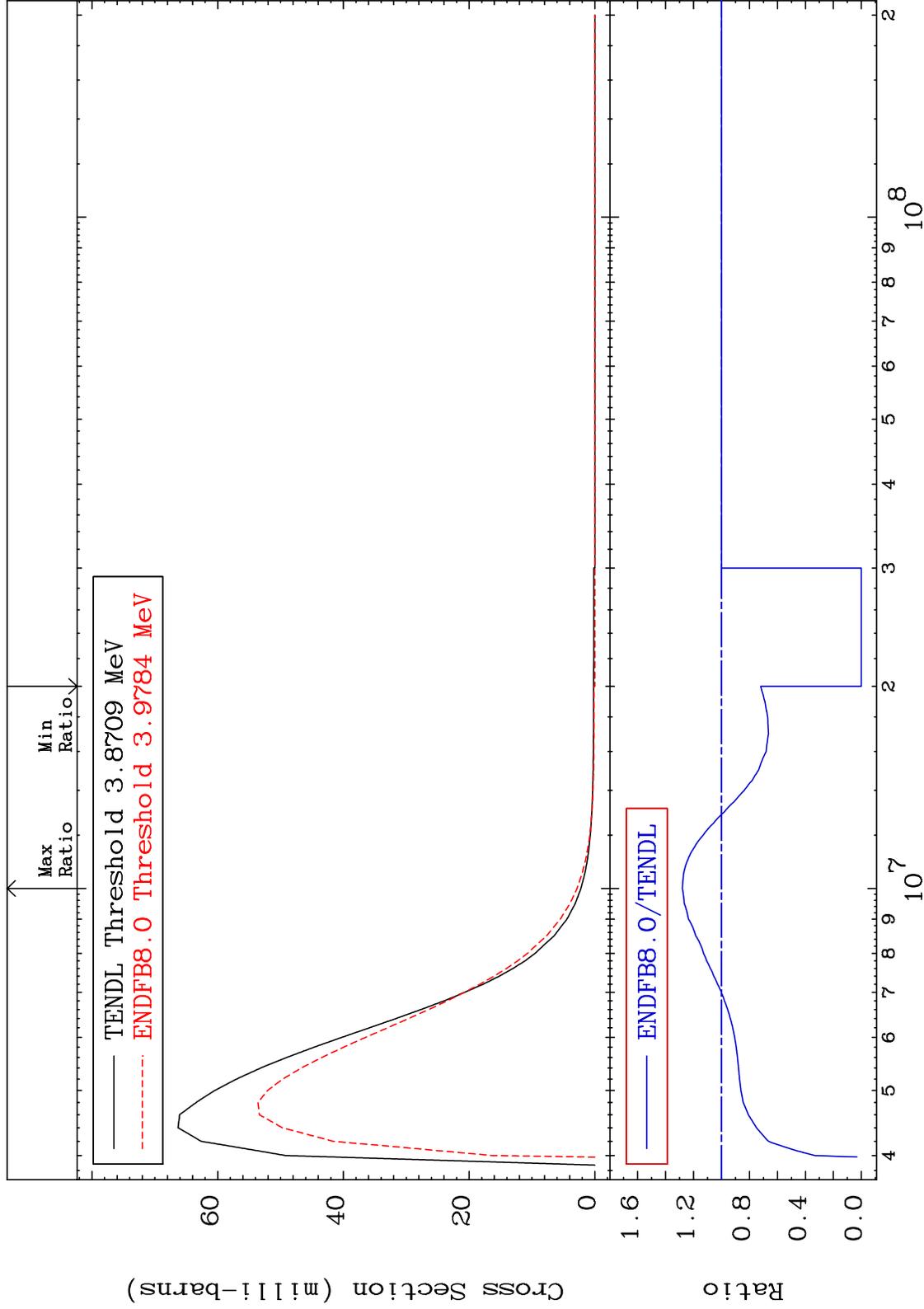
20-Ca-42
-100.0 To 110.9 %



MAT 2031

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

20-Ca-42
-100.0 To 27.94 %



20

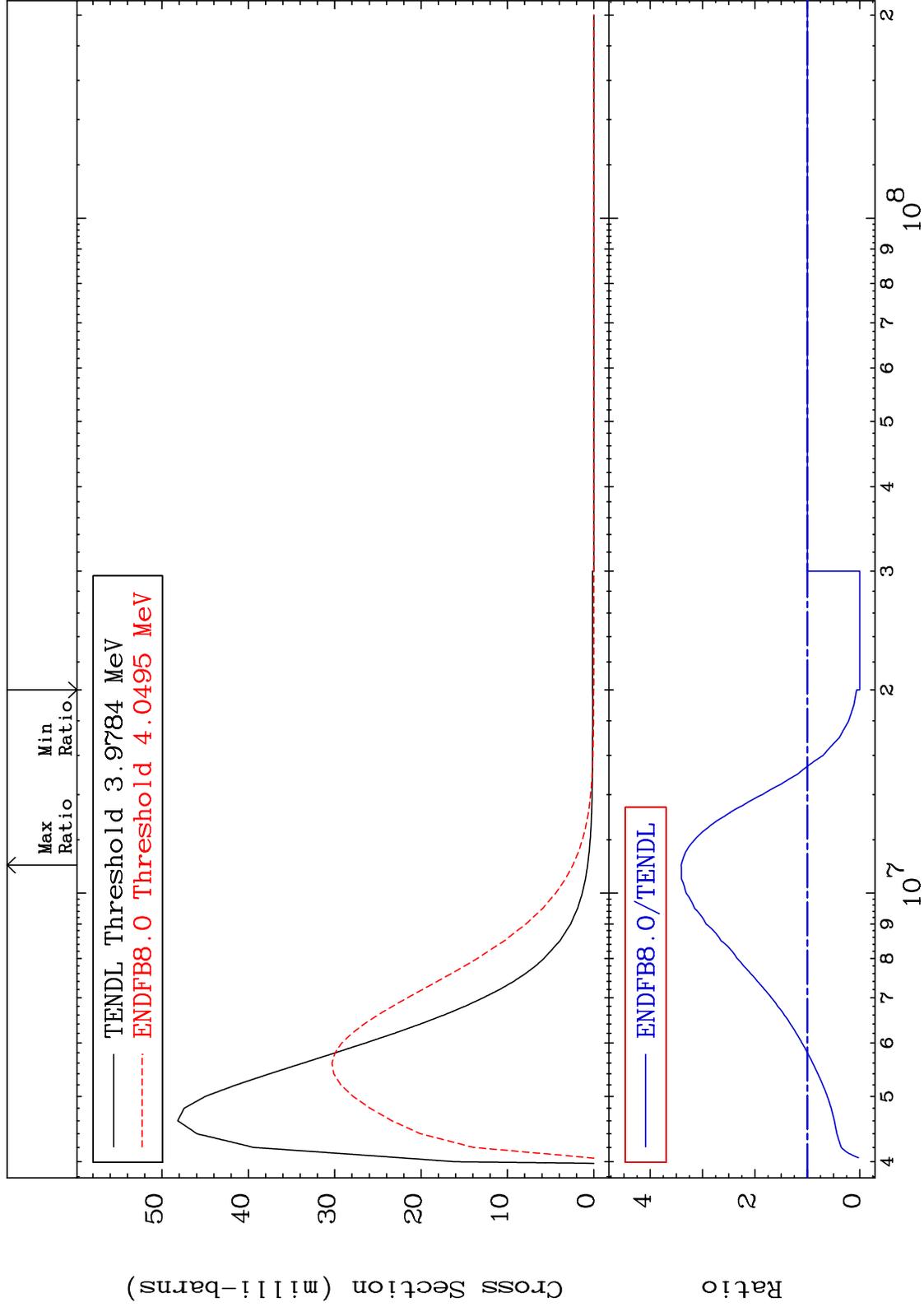
Incident Energy (eV)

20-Ca-42

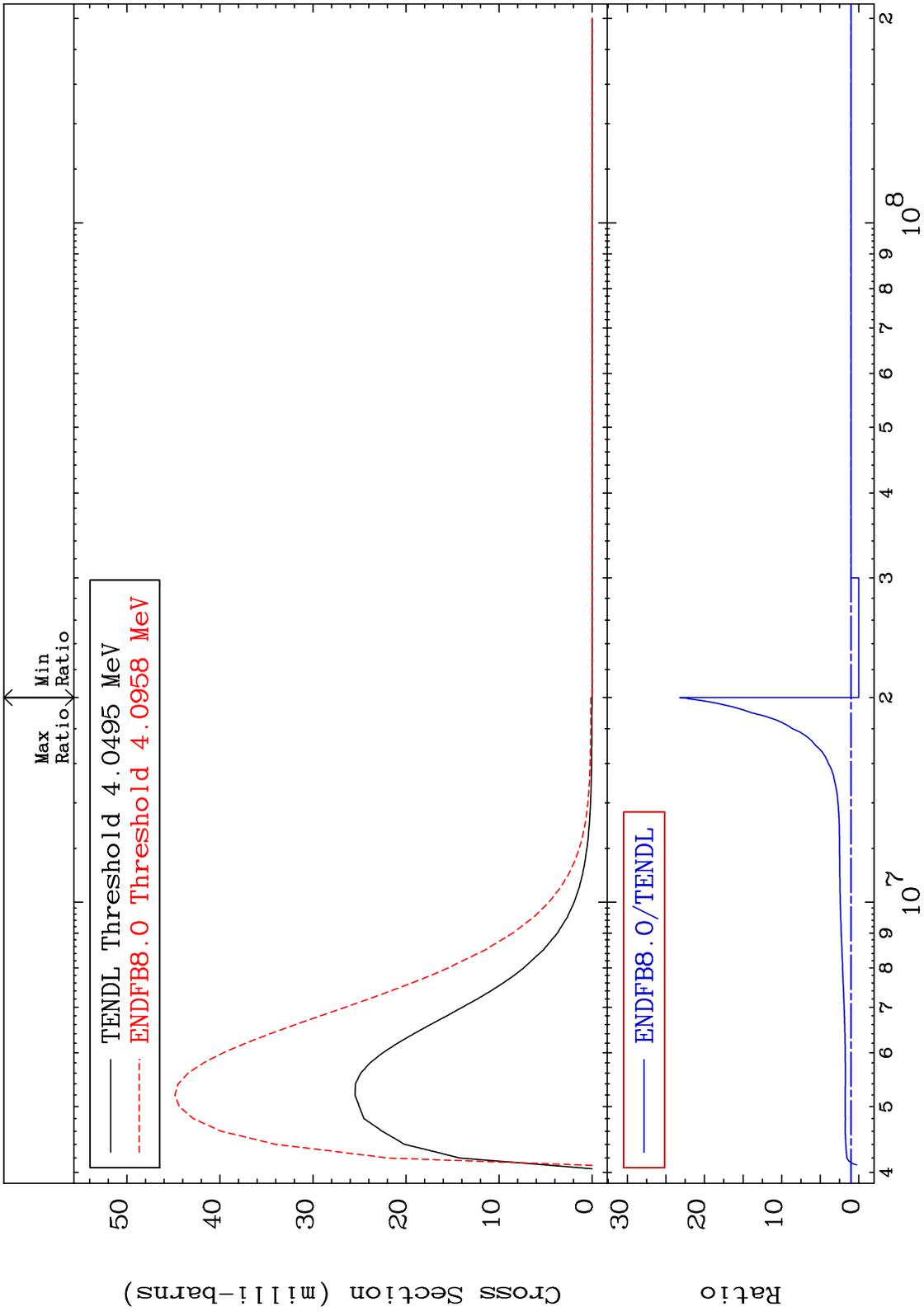
MAT 2031

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

20-Ca-42
-100.0 To 240.6 %



MAT 2031 MT= 63 (n,n') Level Cross Section -100.0 To 2220. % 20-Ca-42

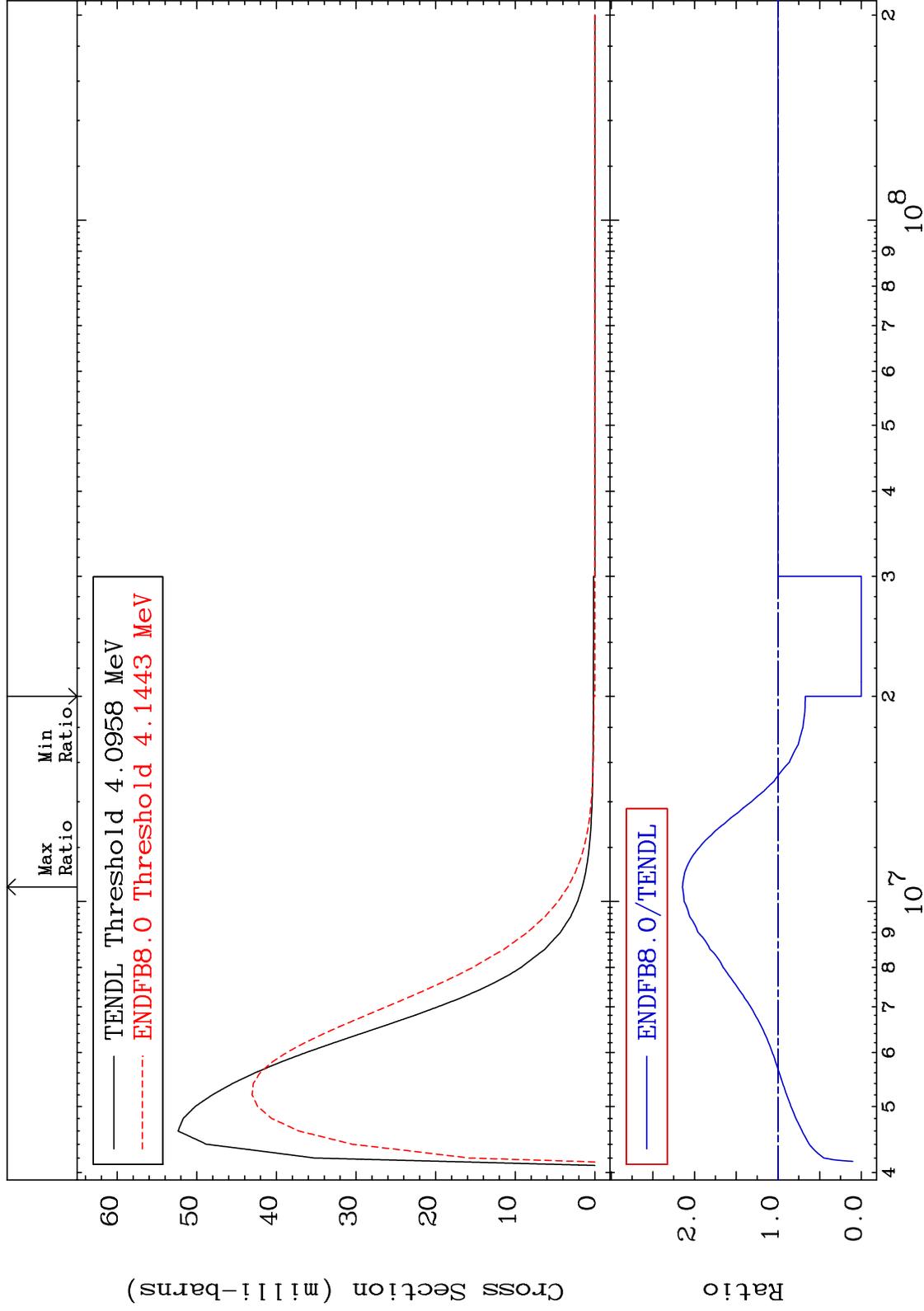


22 Incident Energy (eV) 20-Ca-42

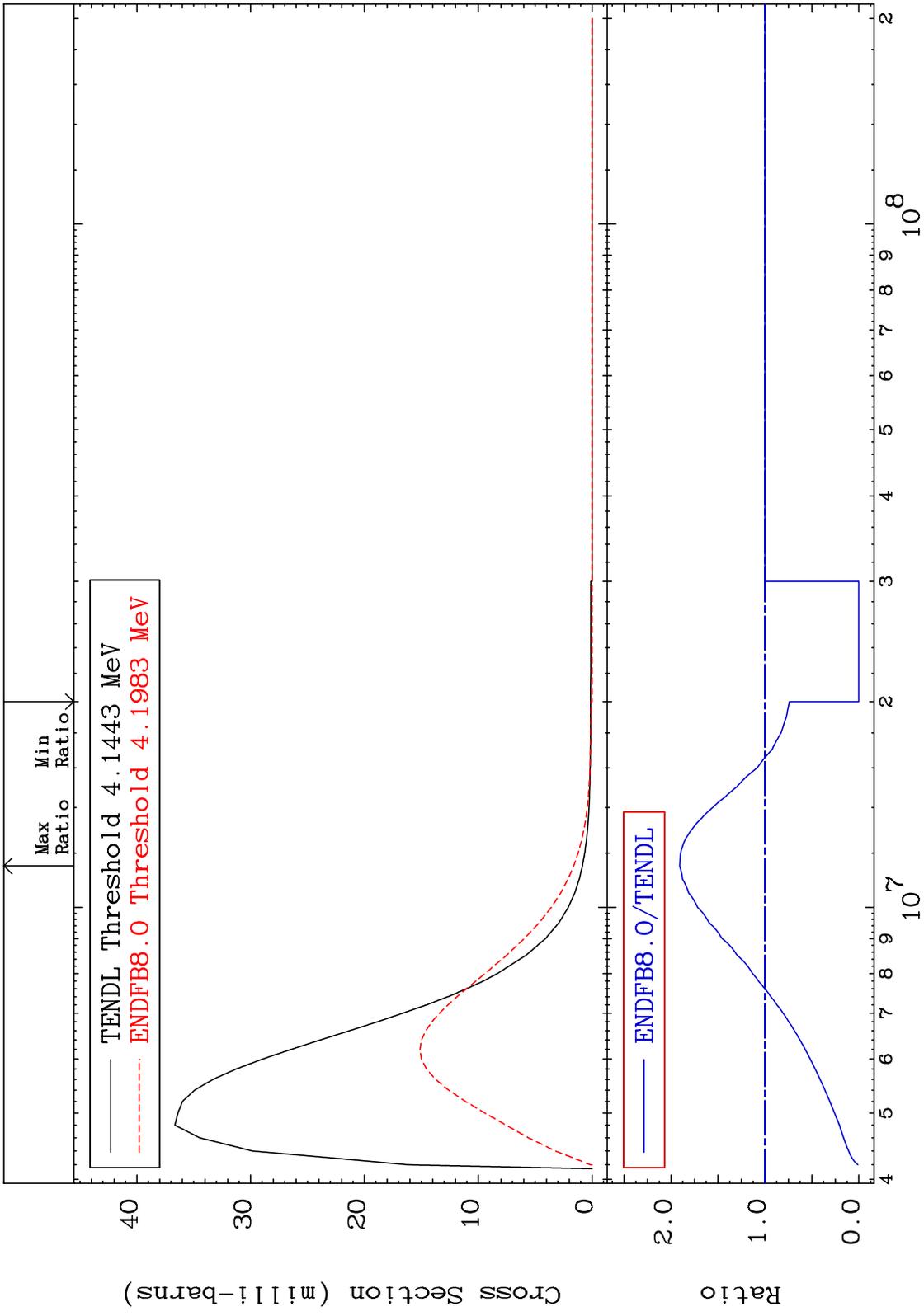
MAT 2031

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

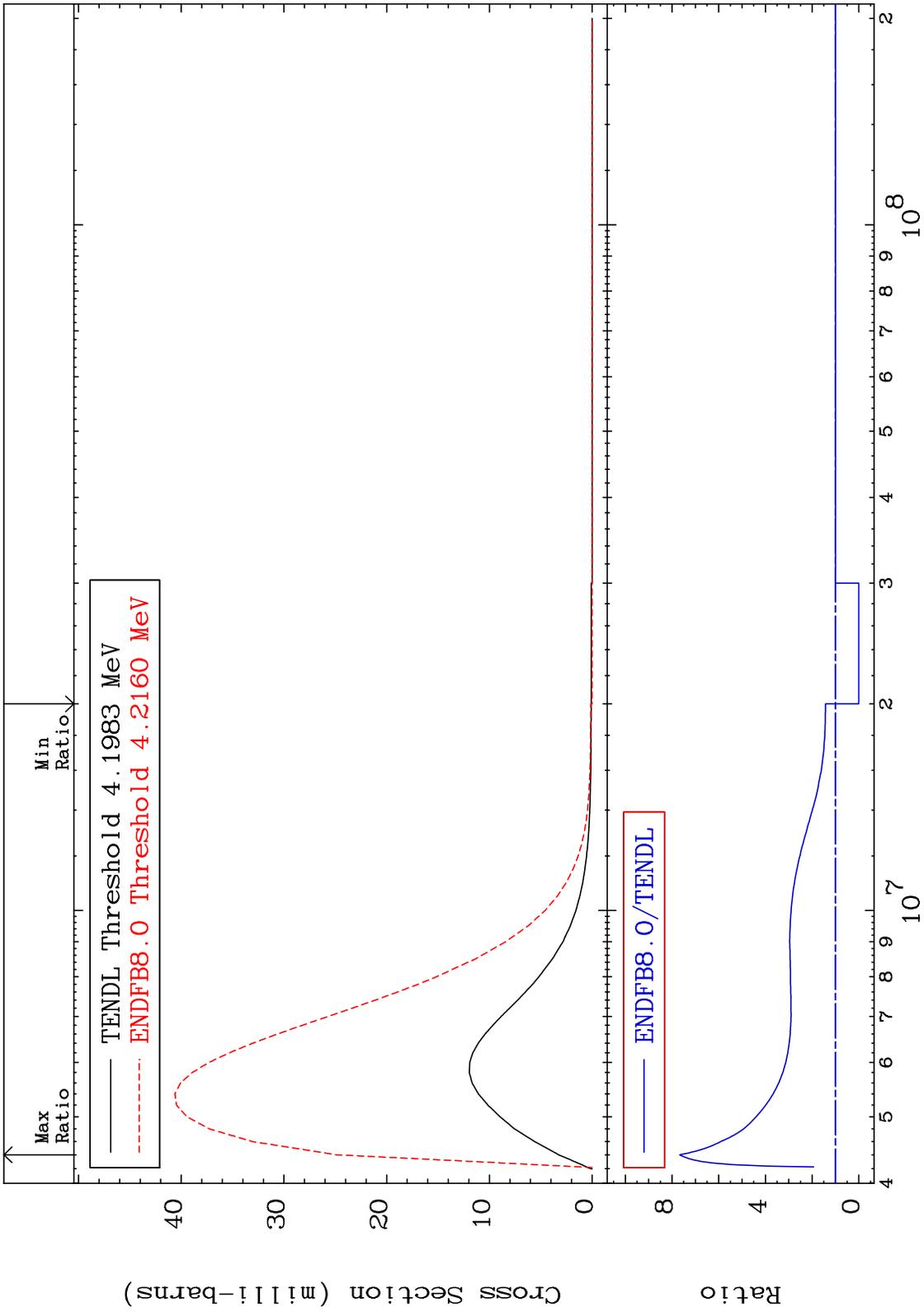
20-Ca-42
-100.0 To 114.5 %



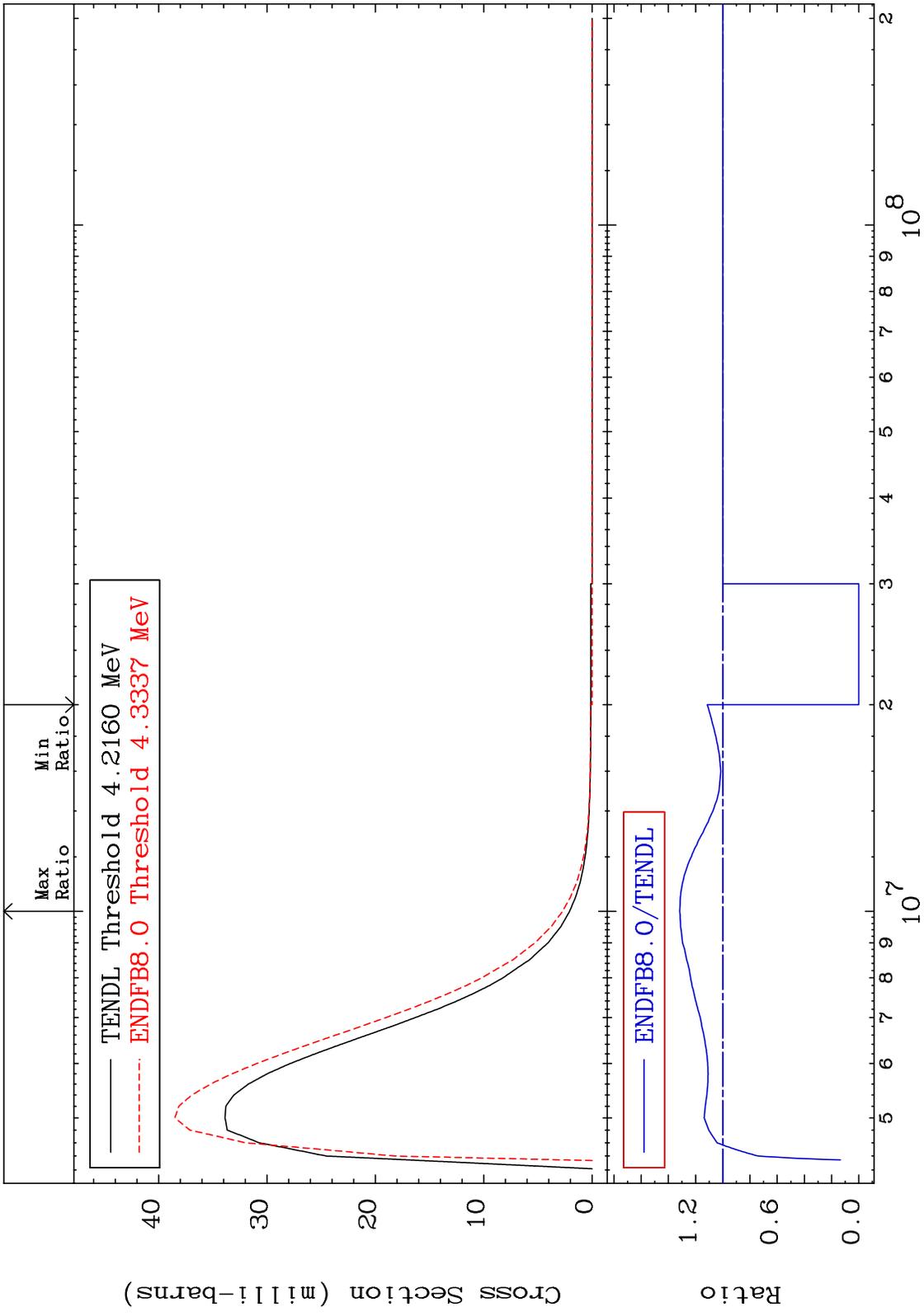
MAT 2031 MT= 65 (n,n') Level Cross Section -100.0 To 90.72 % 20-Ca-42



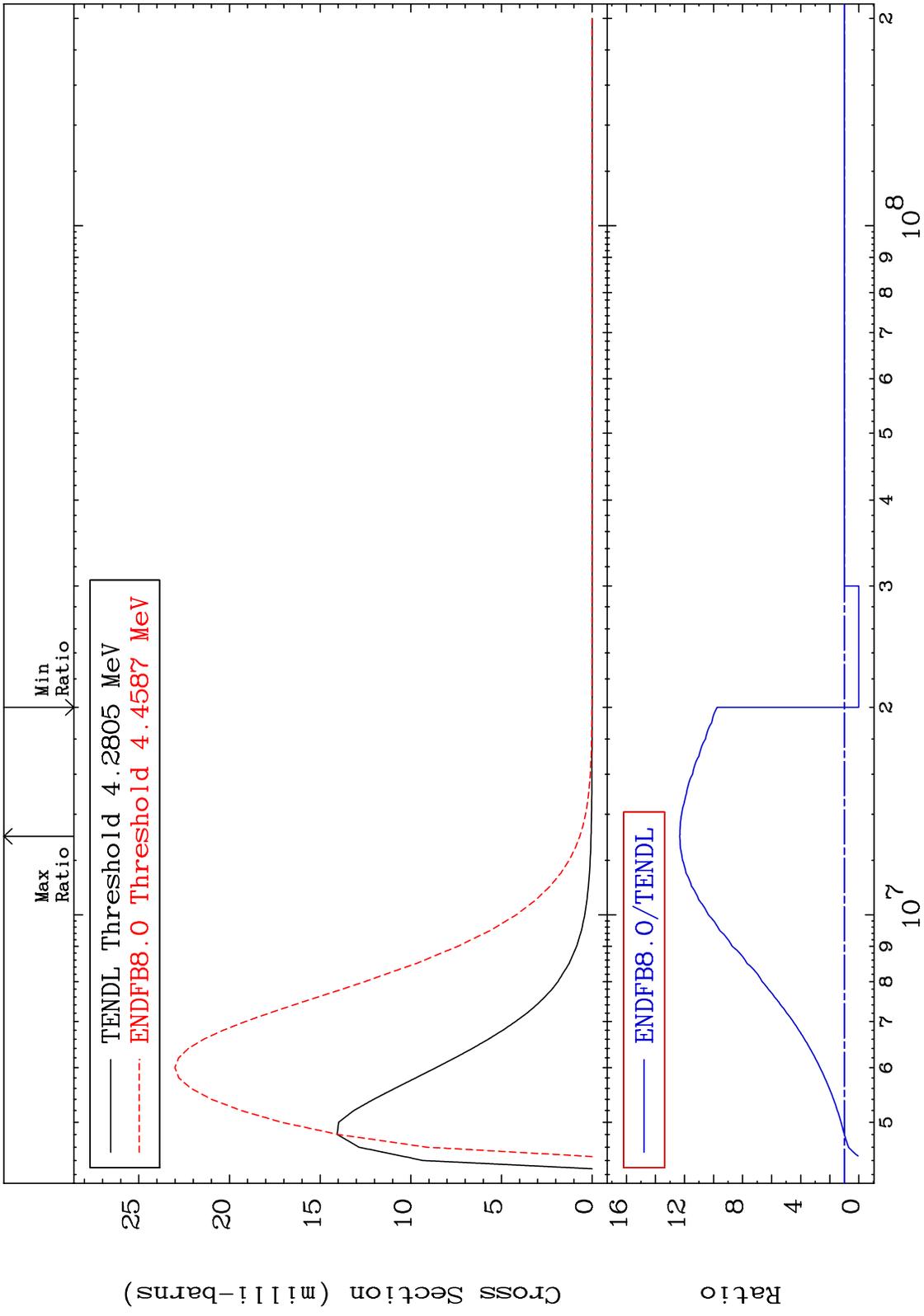
MAT 2031 MT= 66 (n,n') Level Cross Section -100.0 To 666.9 % 20-Ca-42



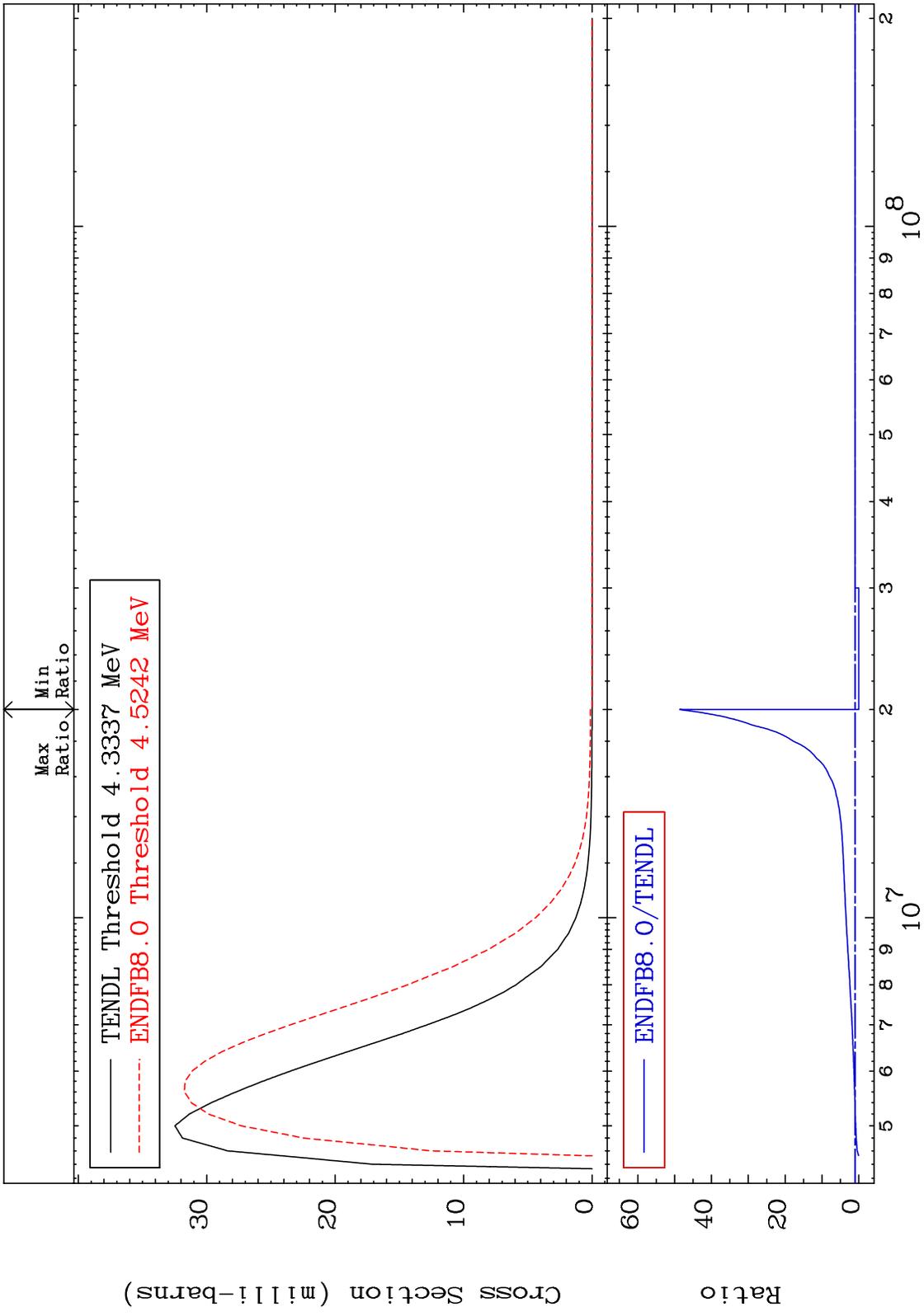
MAT 2031 MT= 67 (n,n') Level Cross Section -100.0 To 31.62 % 20-Ca-42



MAT 2031 MT= 68 (n,n') Level Cross Section -100.0 To 1133. % 20-Ca-42



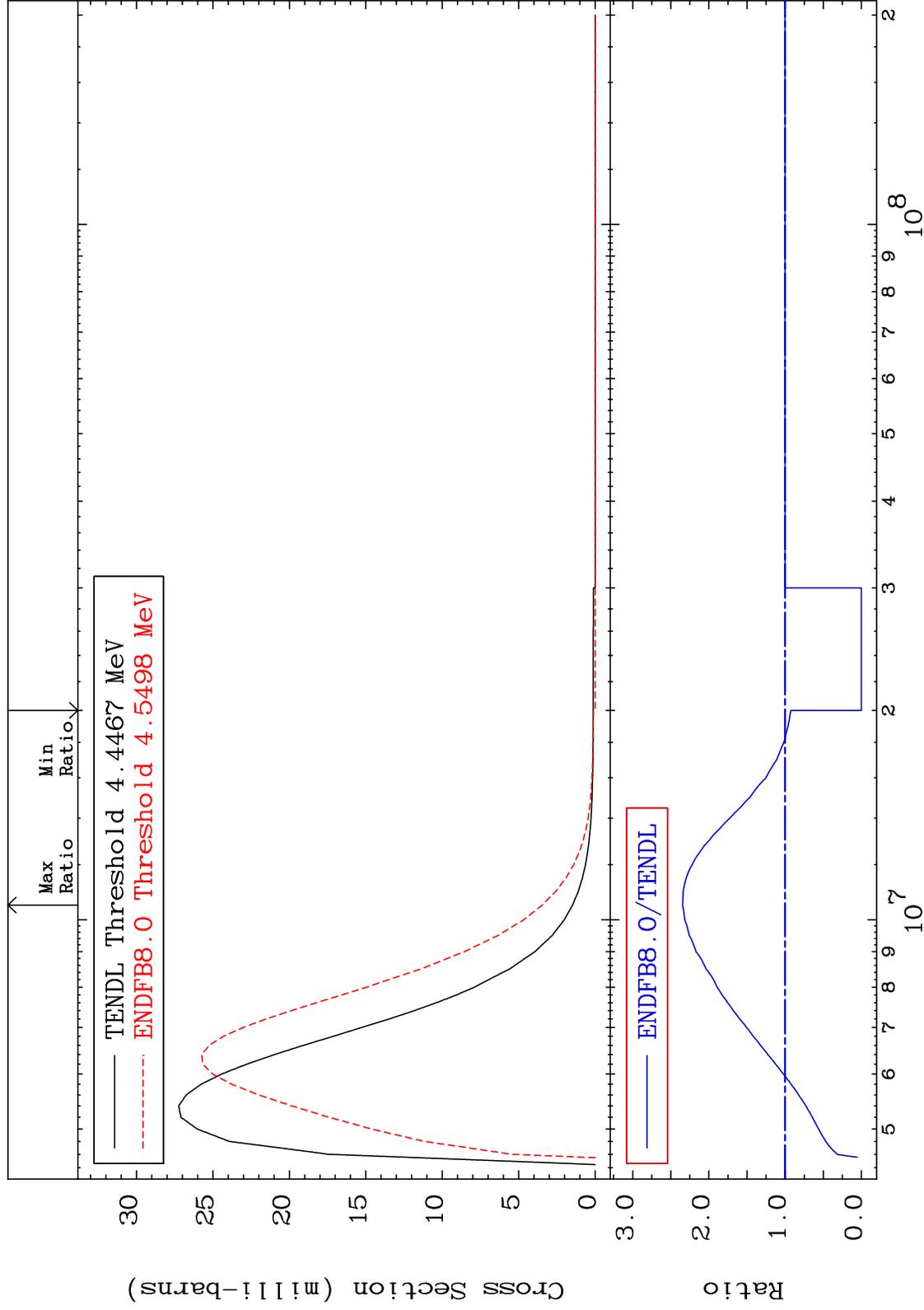
MAT 2031 MT= 69 (n,n') Level Cross Section -100.0 To 4760. % 20-Ca-42



MAT 2031

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

20-Ca-42
-100.0 To 134.4 %

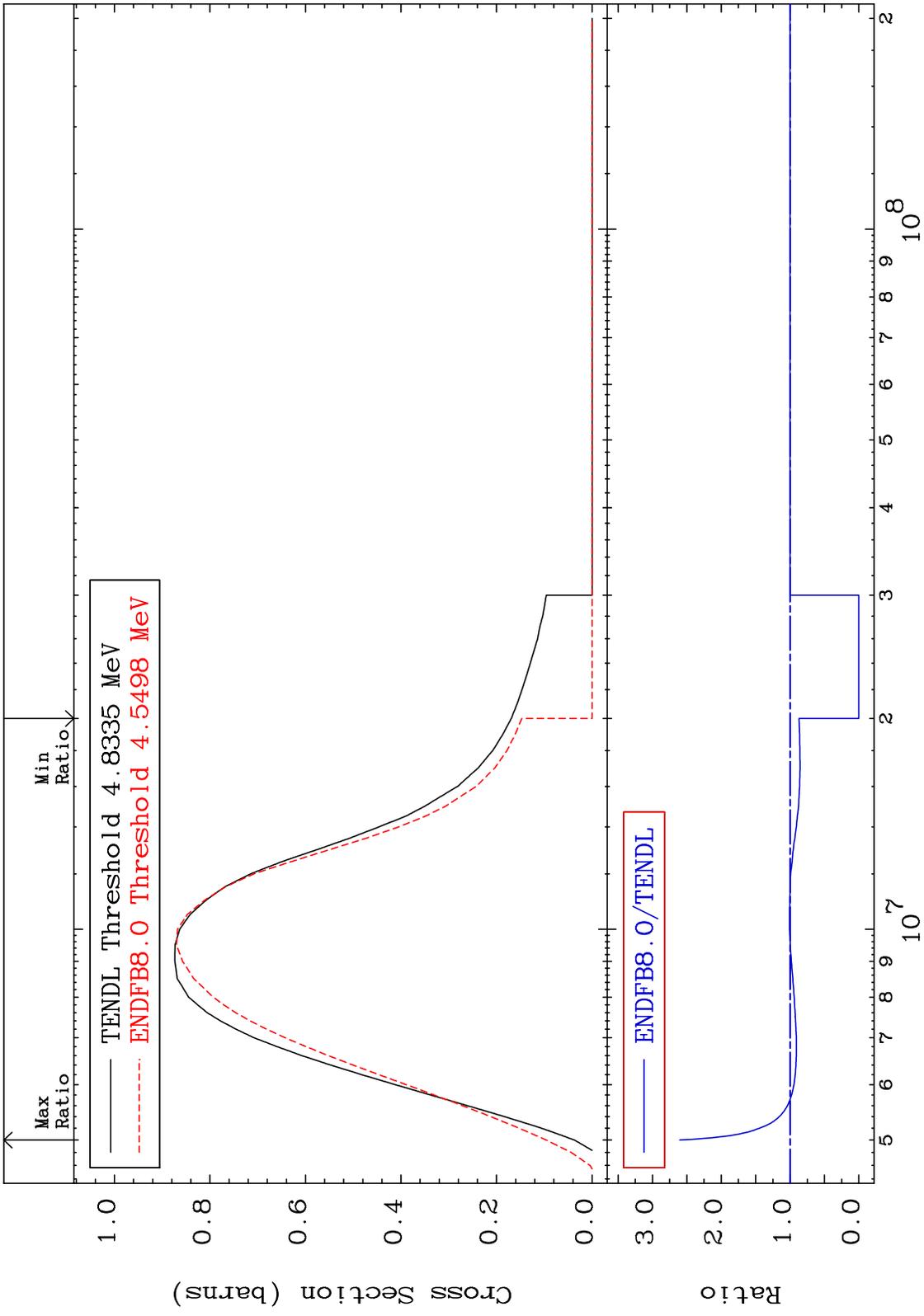


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Incident Energy (eV)

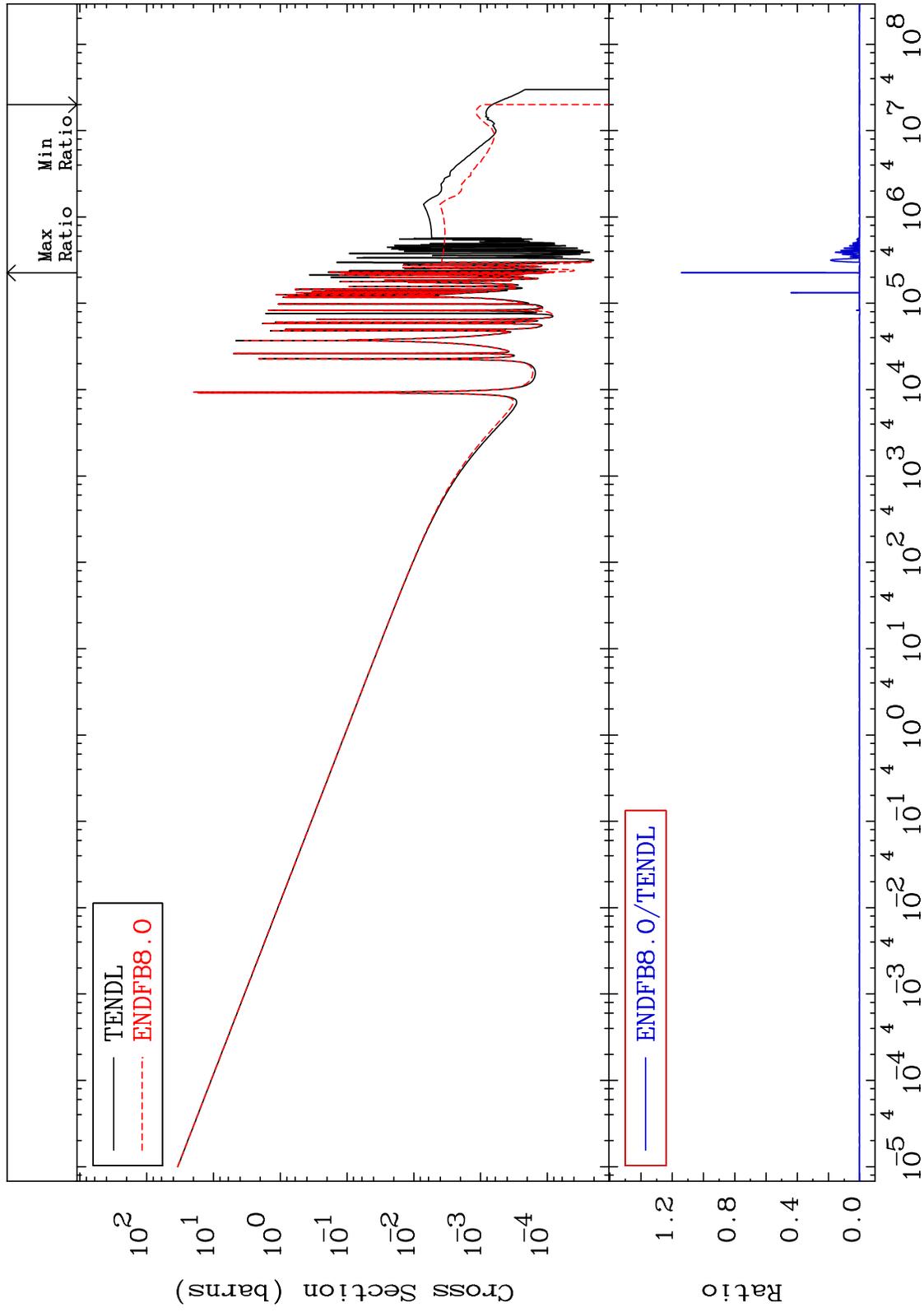
20-Ca-42

MAT 2031 (n,n') Continuum Cross Section -100.0 To 160.4 % 20-Ca-42



MAT 2031

(n, γ) Cross Section 20-Ca-42
-100.0 To 9999. %

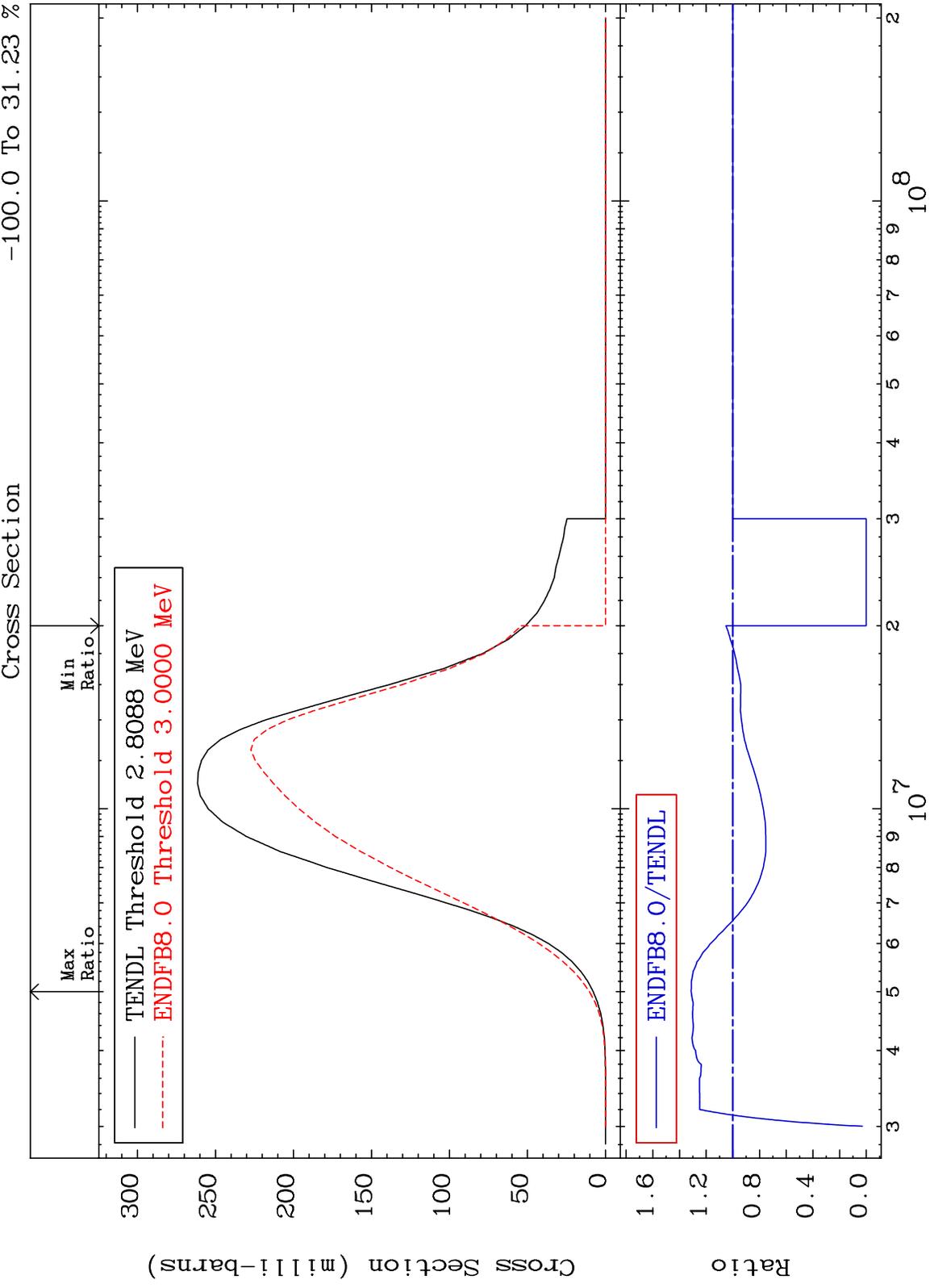


31

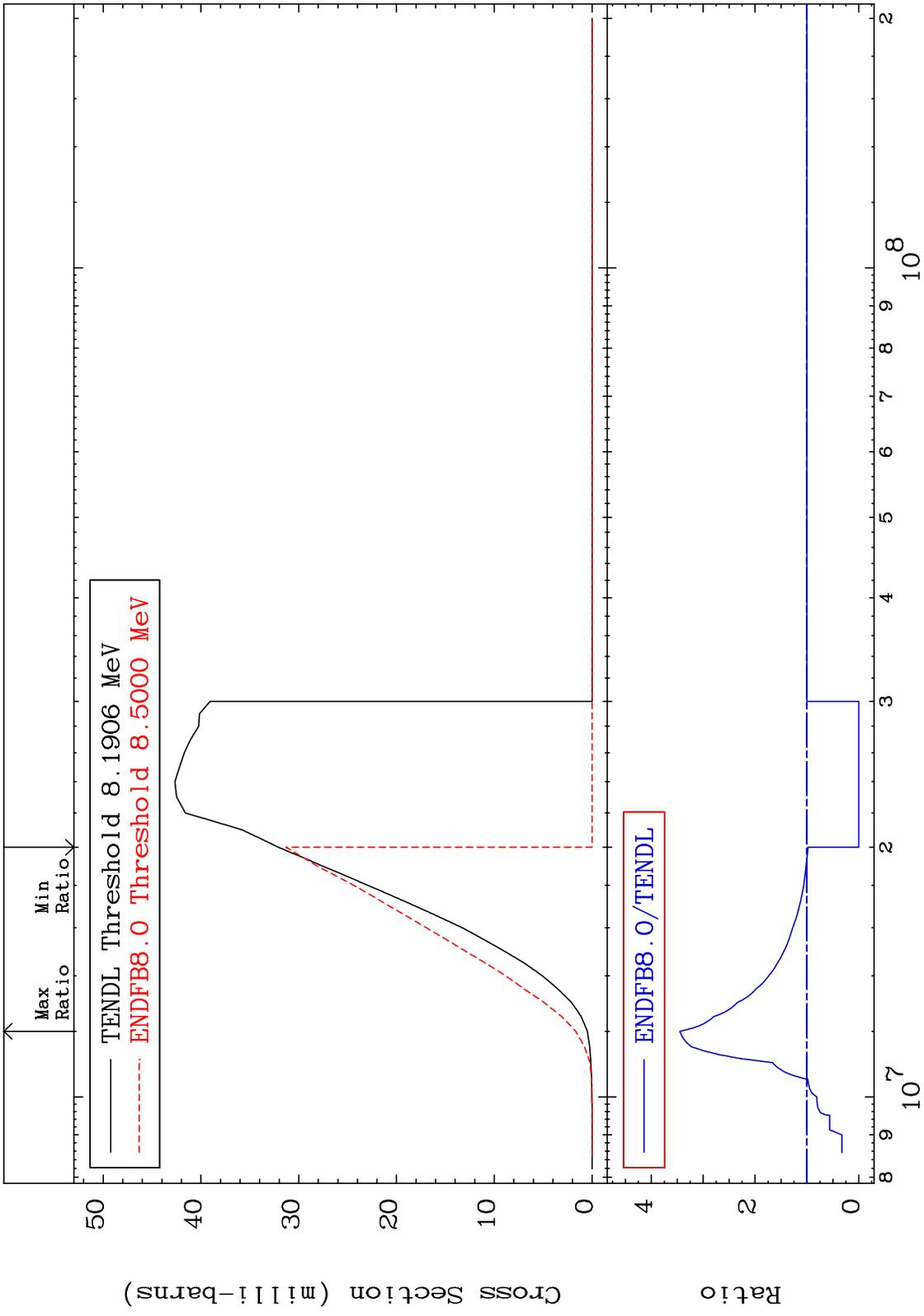
Incident Energy (eV)

20-Ca-42

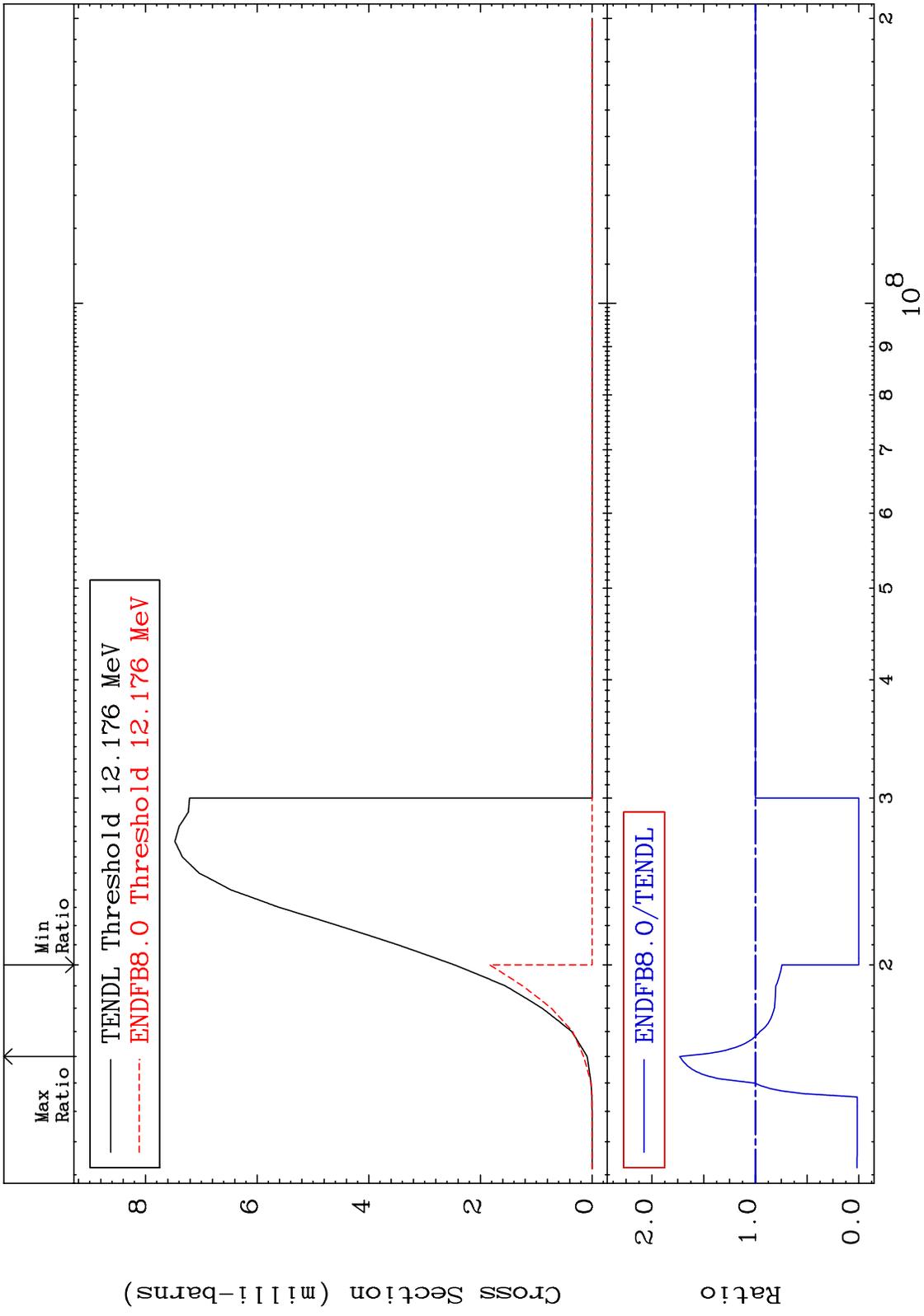
MAT 2031 (n,p) 20-Ca-42 -100.0 To 31.23 %

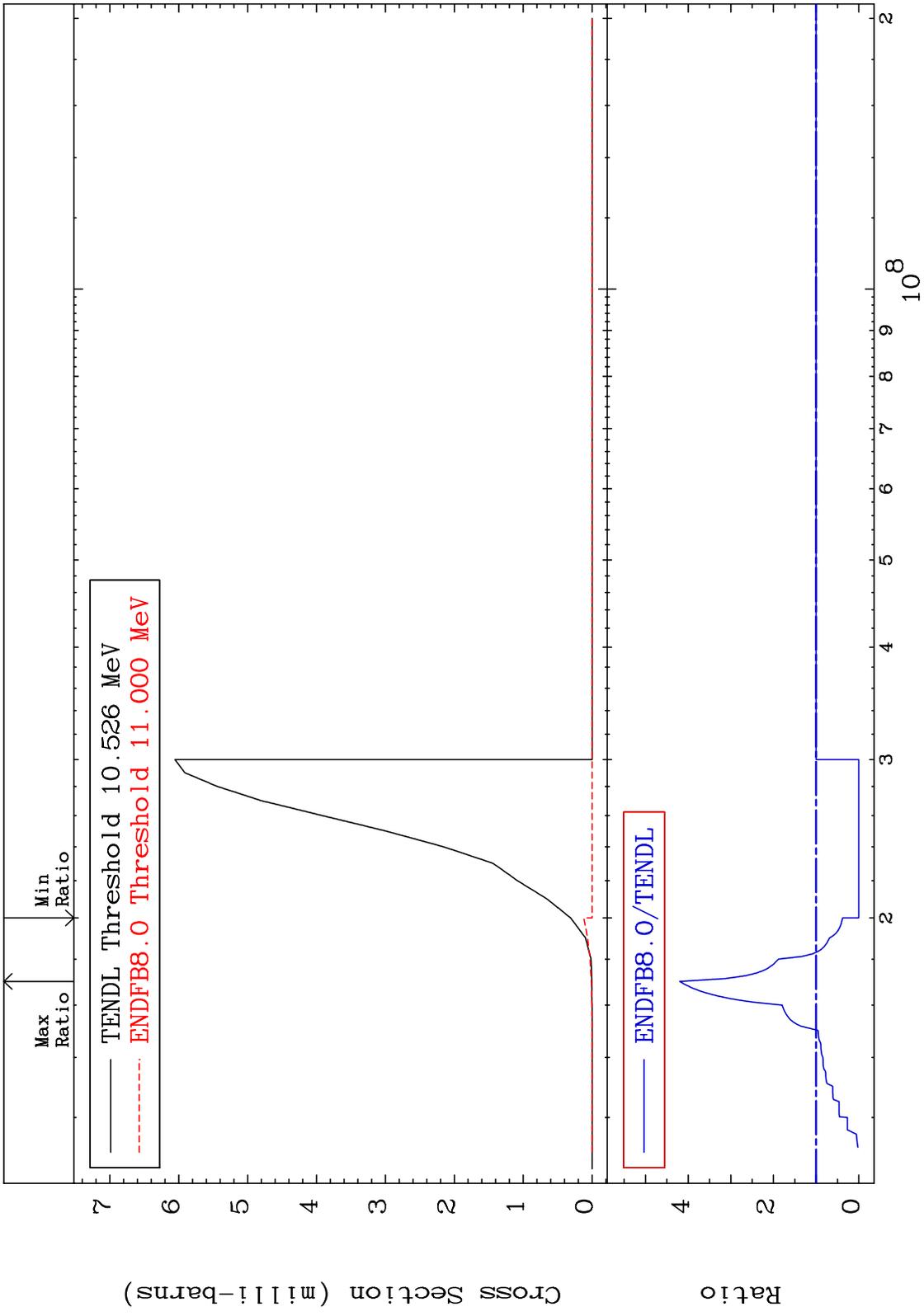


MAT 2031 (n,d) Cross Section 20-Ca-42 -100.0 To 245.2 %

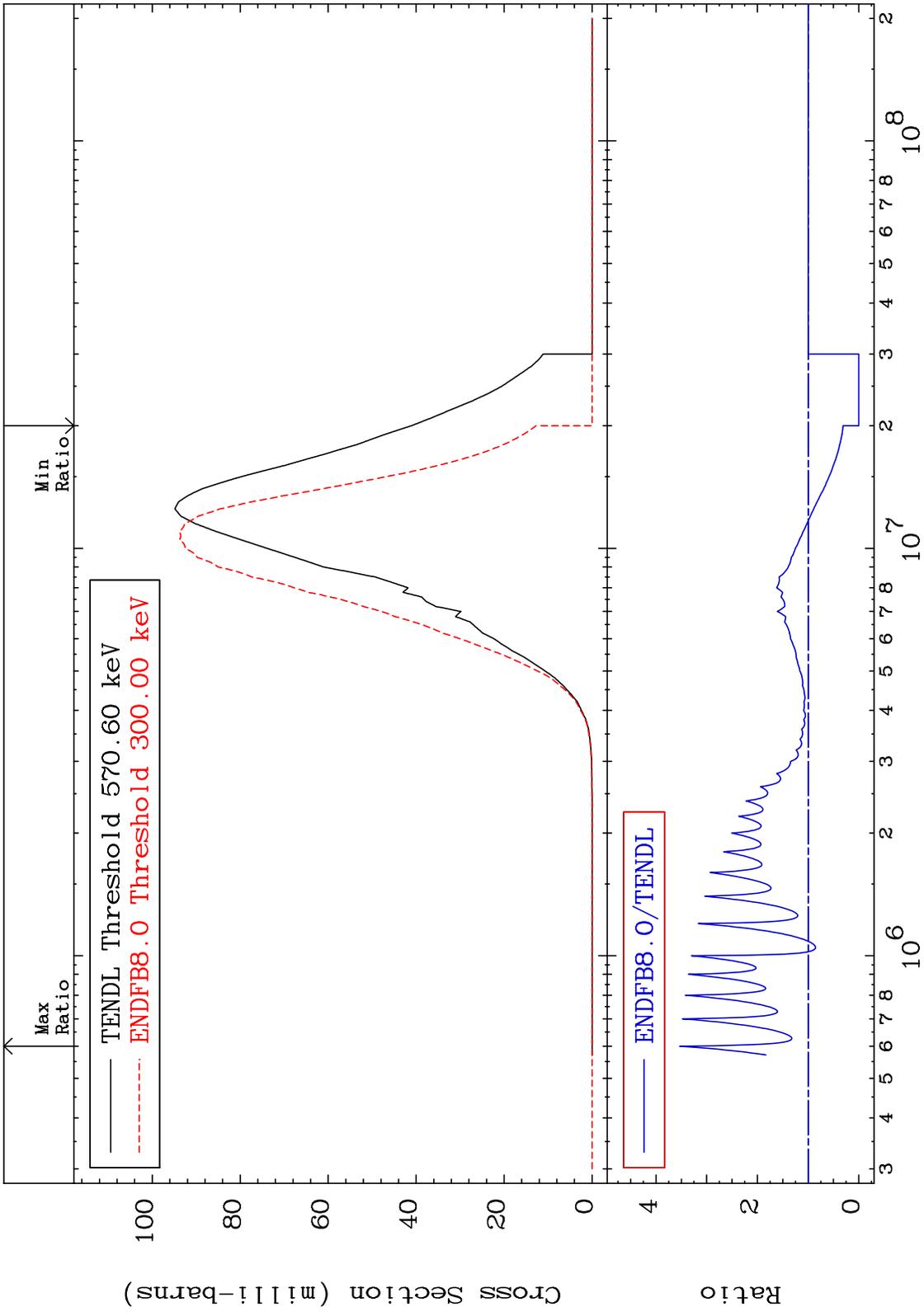


MAT 2031 (n,t) Cross Section 20-Ca-42 -100.0 To 73.13 %

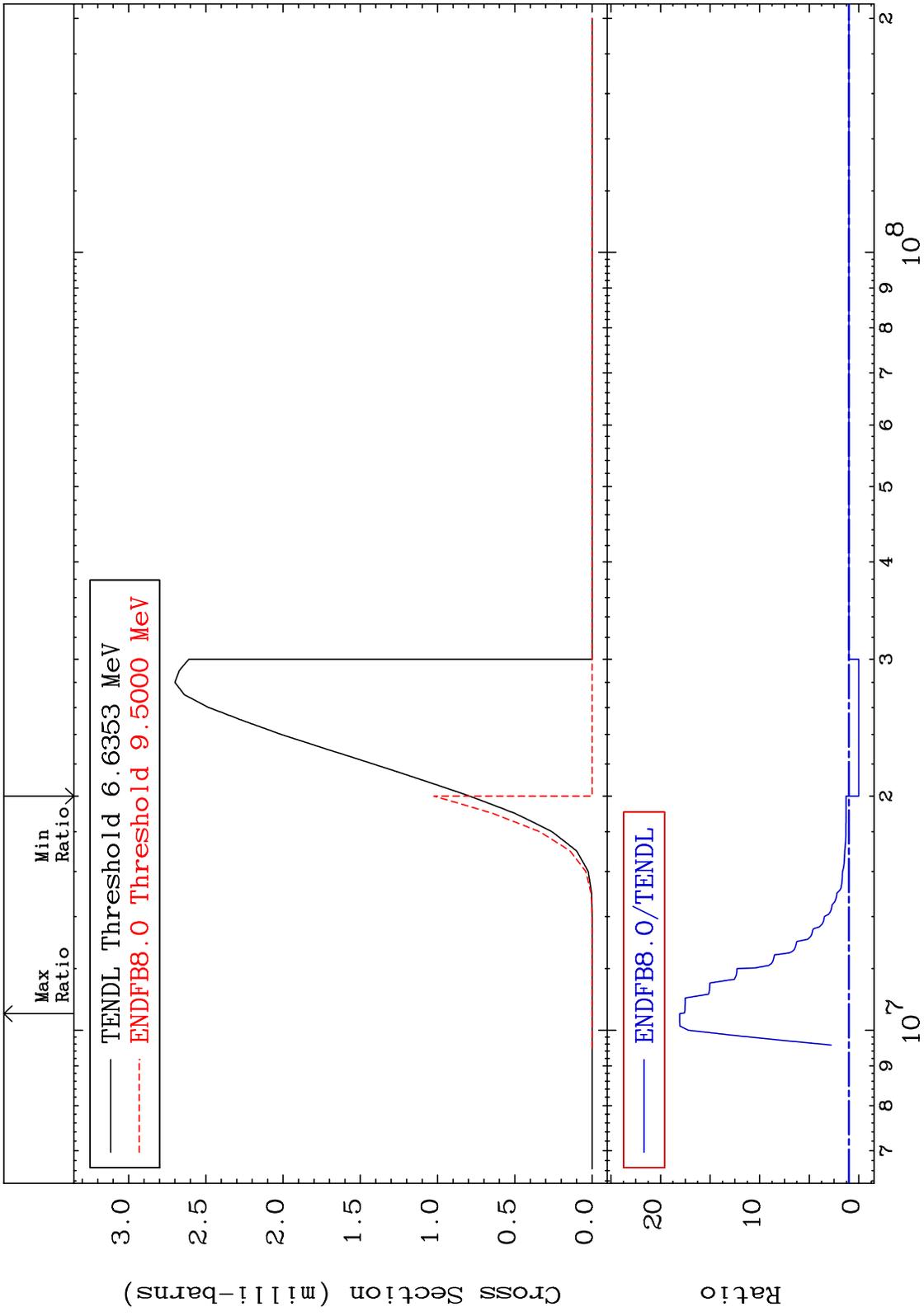




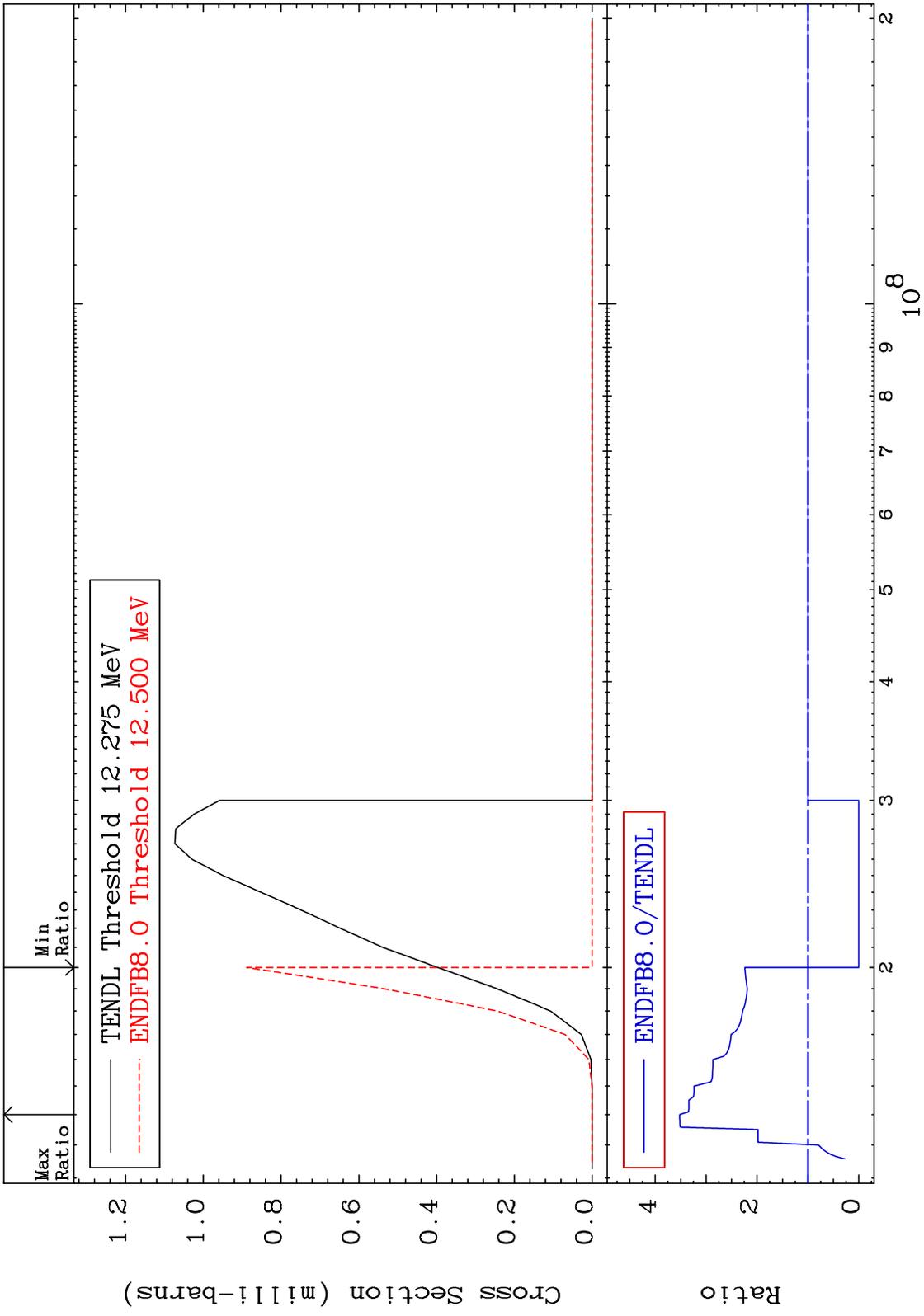
MAT 2031 (n,α) 20-Ca-42
 Cross Section -100.0 To 253.1 %



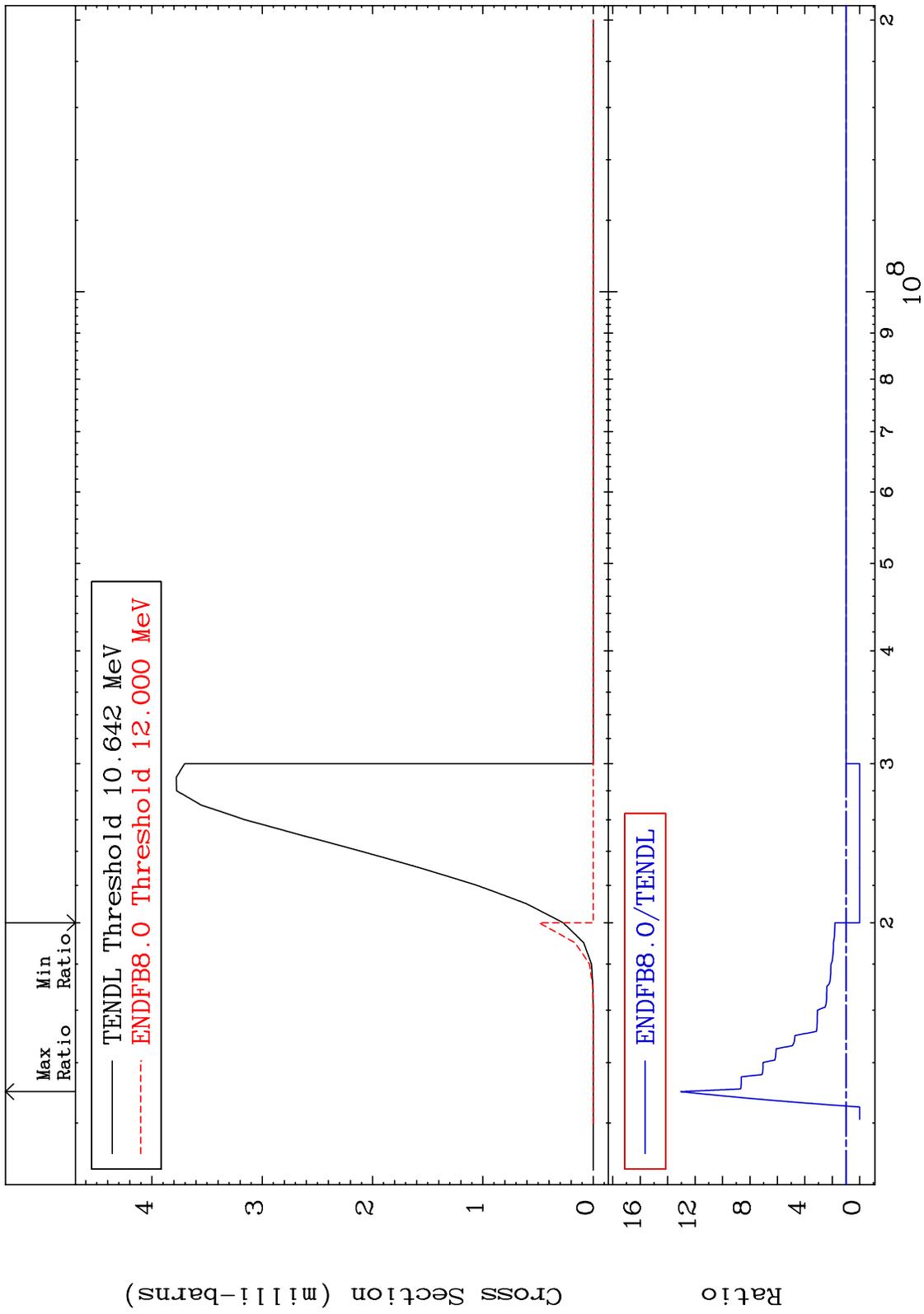
MAT 2031 $(n, 2\alpha)$ 20-Ca-42
 Cross Section -100.0 To 1706. %



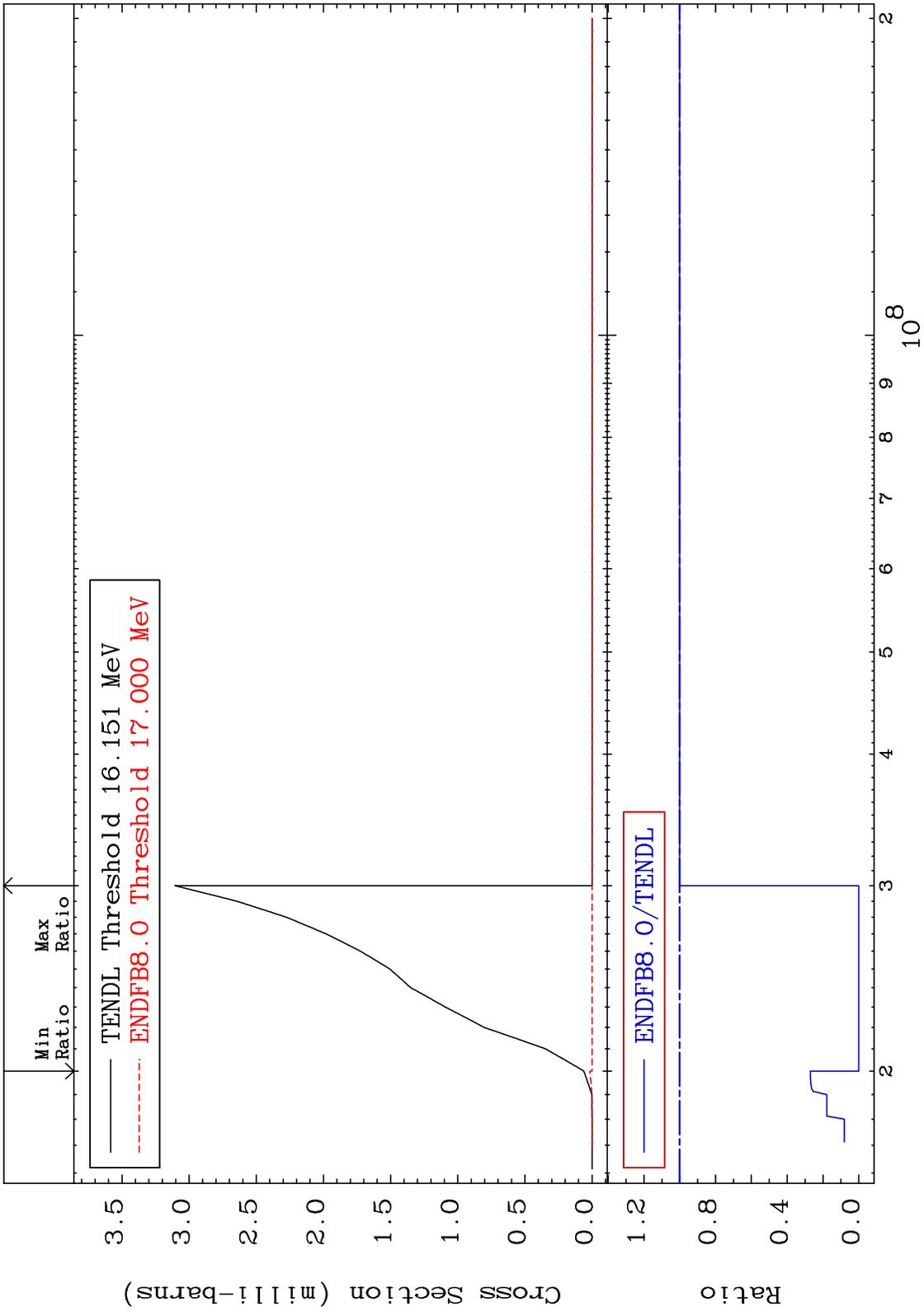
MAT 2031 (n,2p) Cross Section 20-Ca-42 -100.0 To 251.8 %



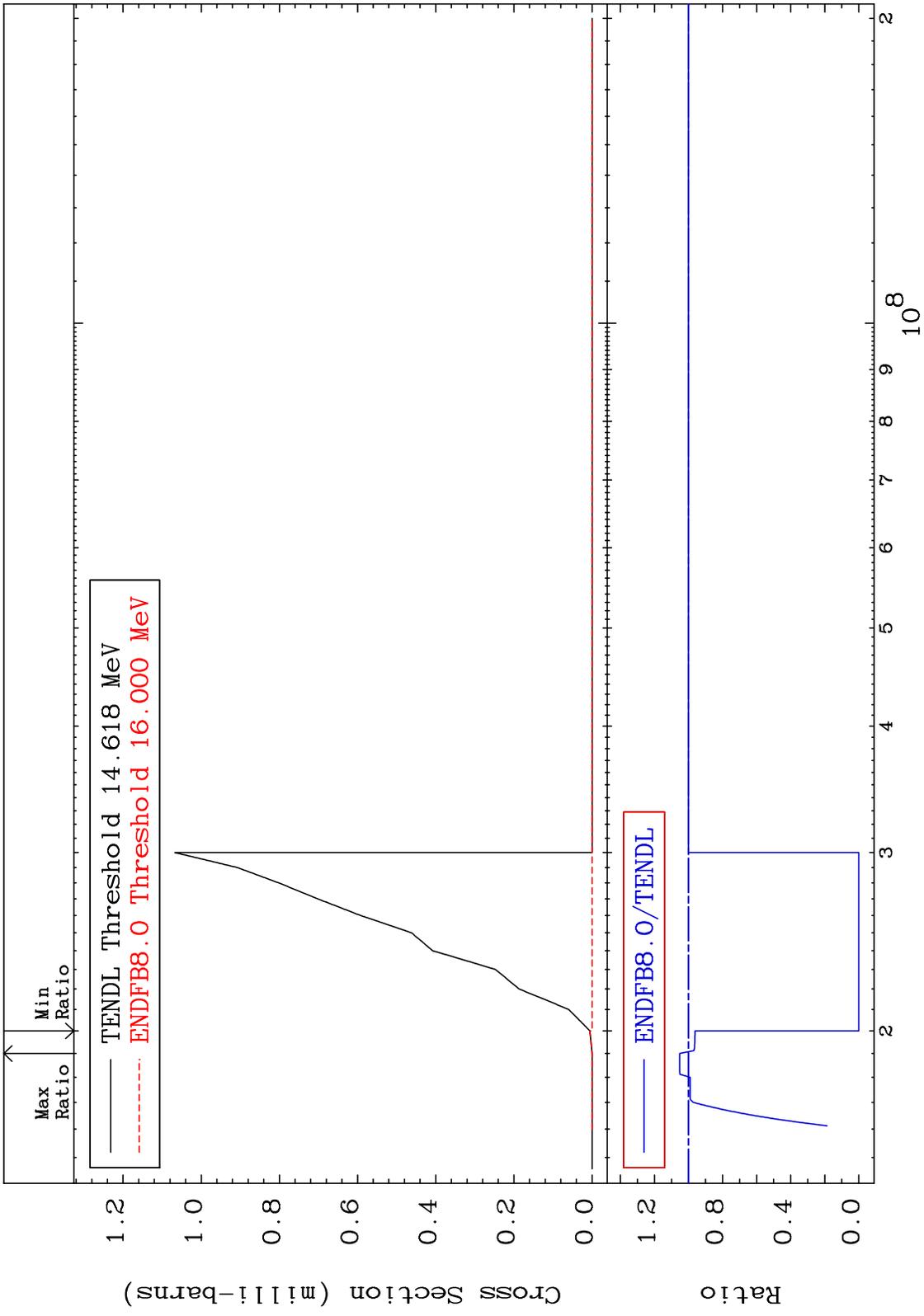
MAT 2031 (n,p) α 20-Ca-42
 Cross Section -100.0 To 1204. %



MAT 2031 (n,p) d 20-Ca-42
 Cross Section -100.0 To 0.000 %



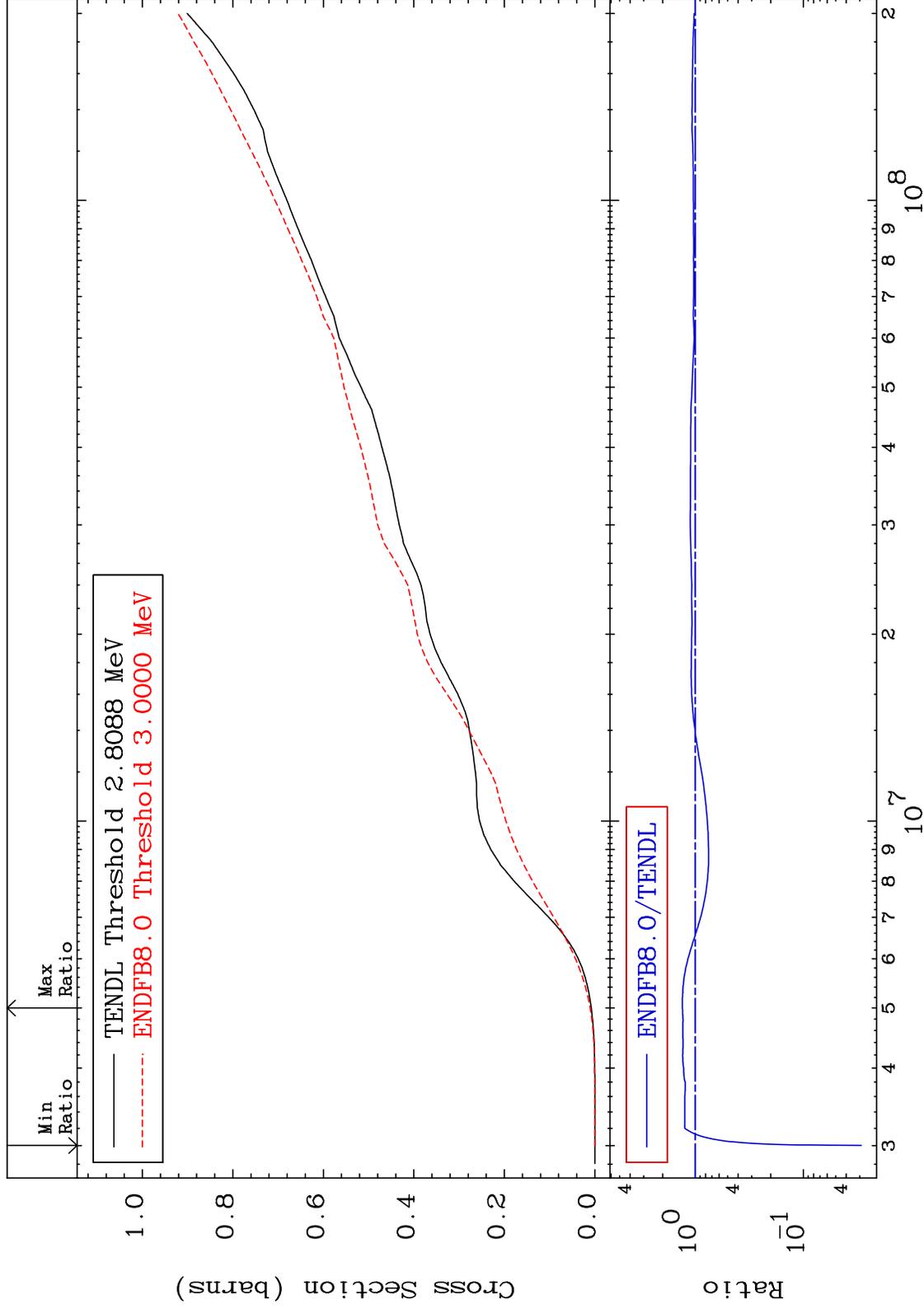
MAT 2031 (n,d) α 20-Ca-42
 Cross Section -100.0 To 5.158 %



MAT 2031

Hydrogen Production
Cross Section

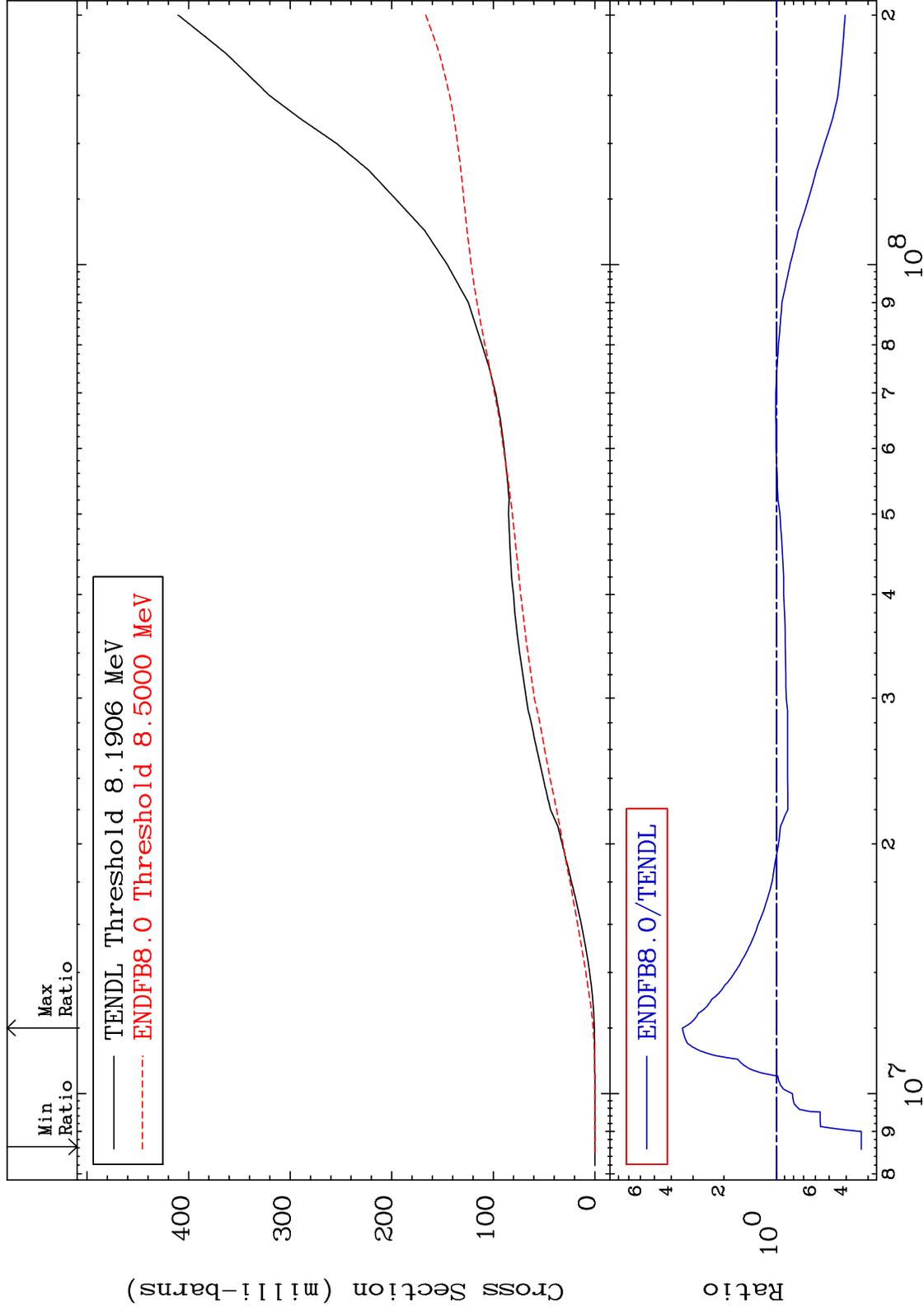
20-Ca-42
-97.10 To 31.23 %

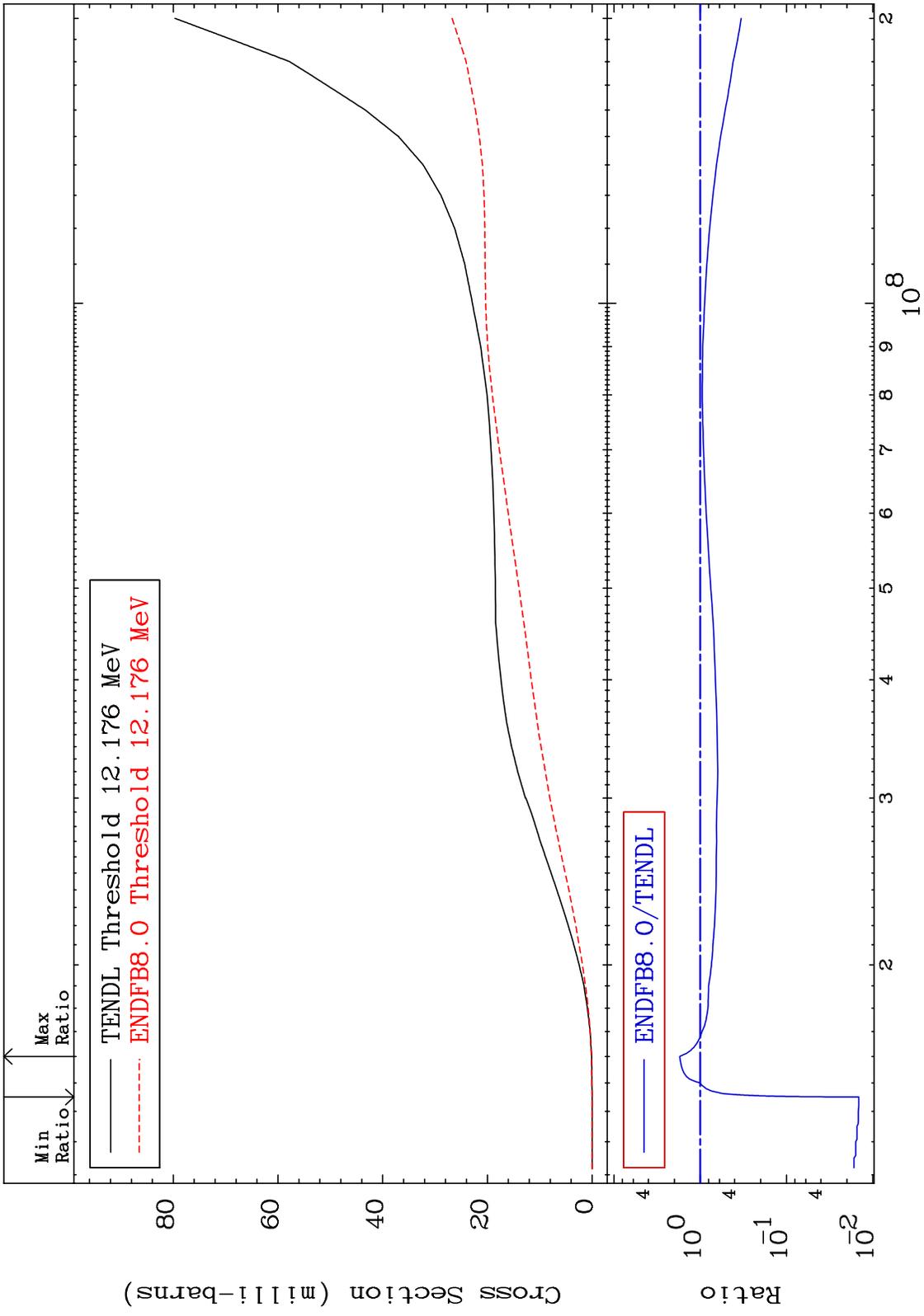


MAT 2031

Deuterium Production
Cross Section

²⁰Ca-42
-67.25 To 245.2 %

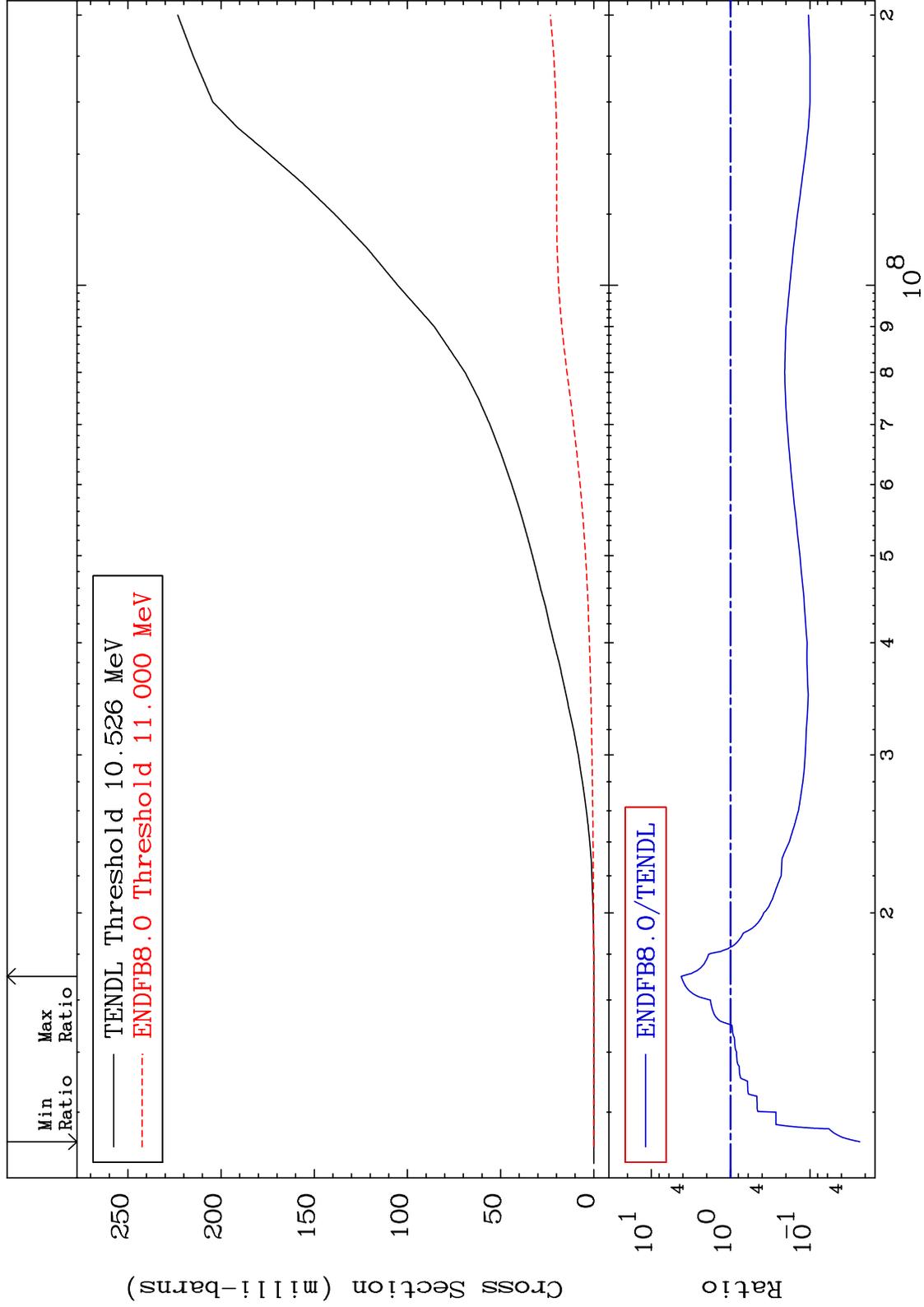




MAT 2031

He-3 Production
Cross Section

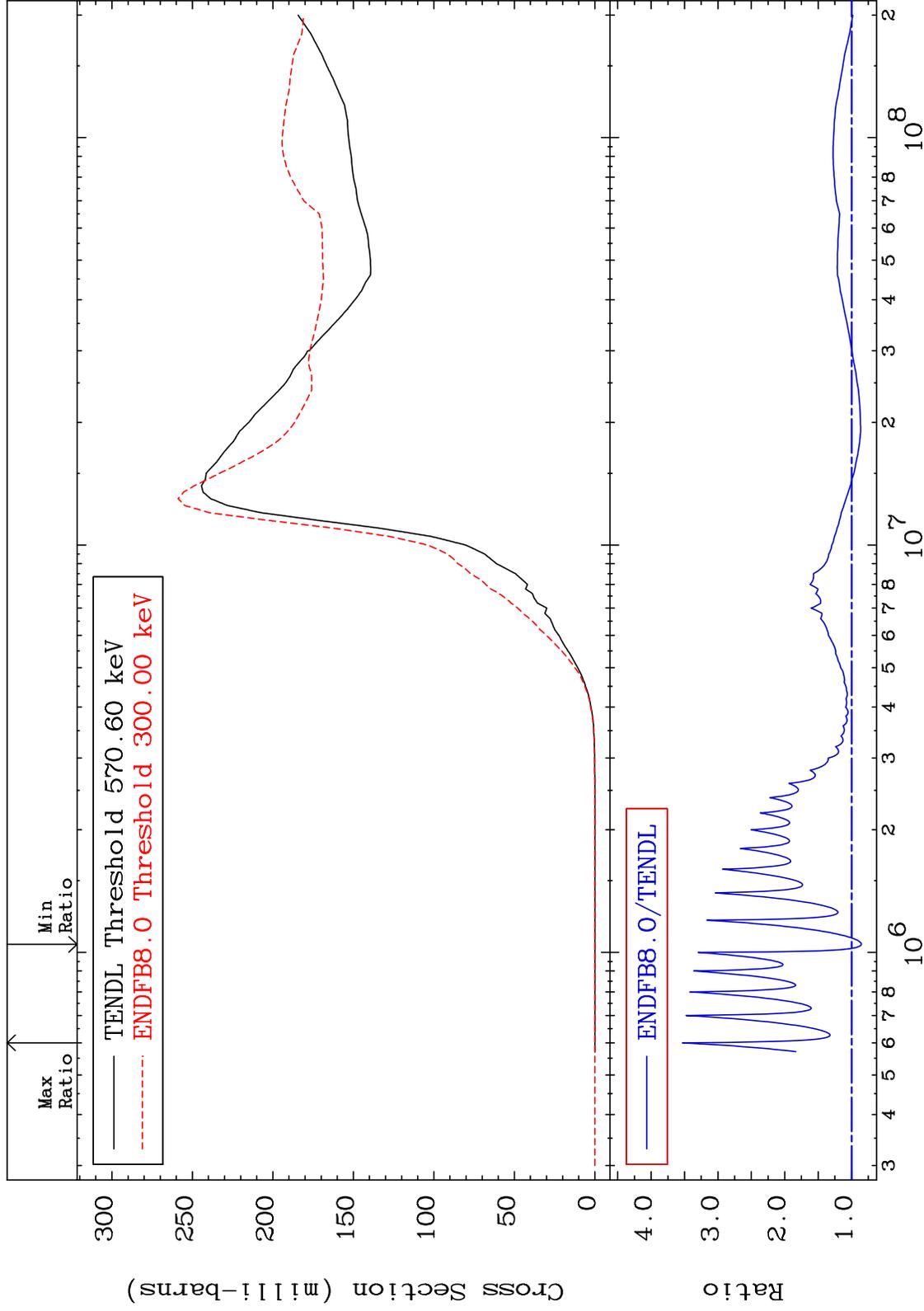
20-Ca-42
-97.65 To 319.7 %



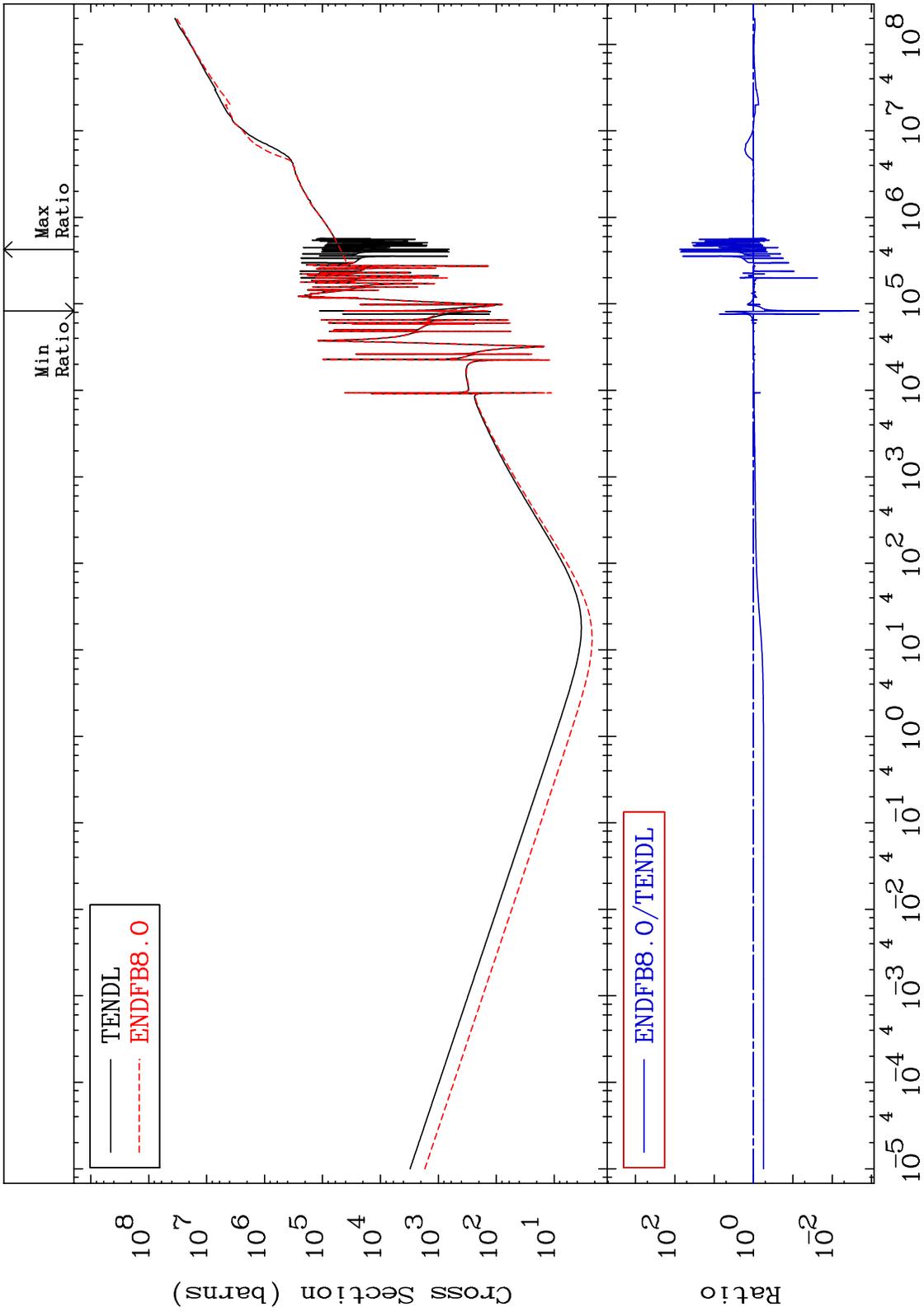
MAT 2031

He-4 Production
Cross Section

20-Ca-42
-14.64 To 253.1 %



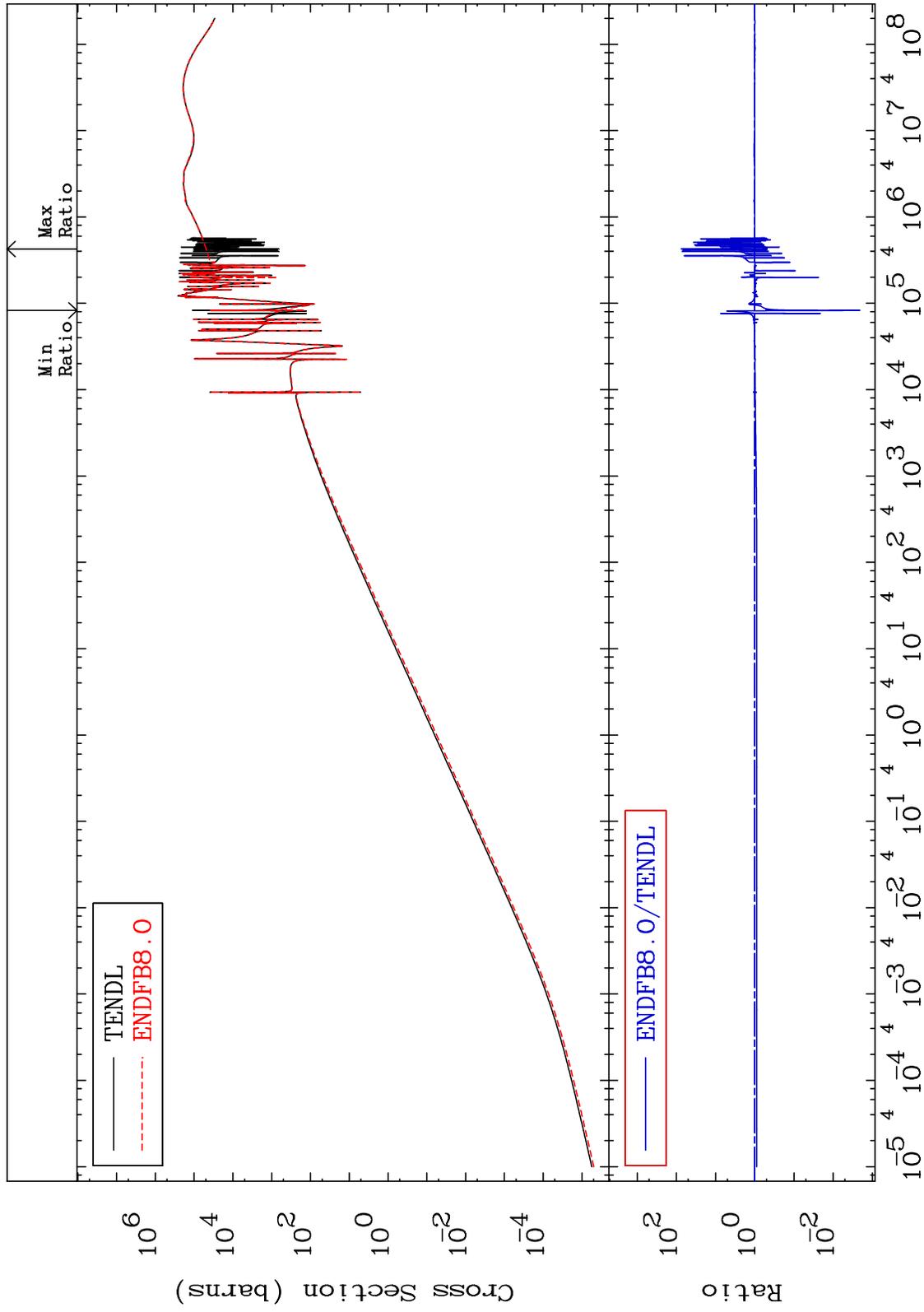
MAT 2031 Kerma total (eV-barns) Cross Section 20-Ca-42
 -99.79 To 7415. %



MAT 2031

Kerma elastic
Cross Section

20-Ca-42
-99.79 To 7421. %



48

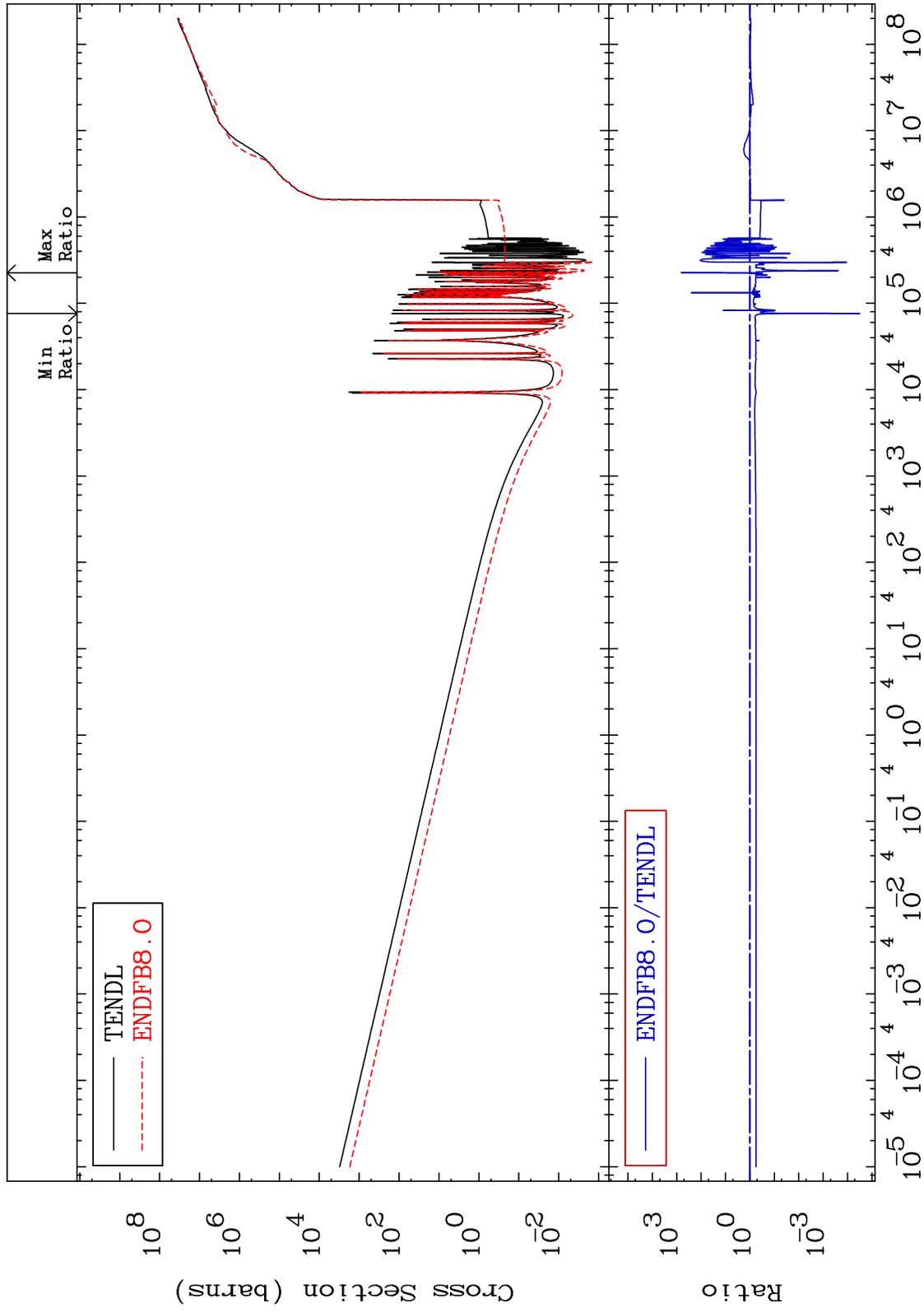
Incident Energy (eV)

20-Ca-42

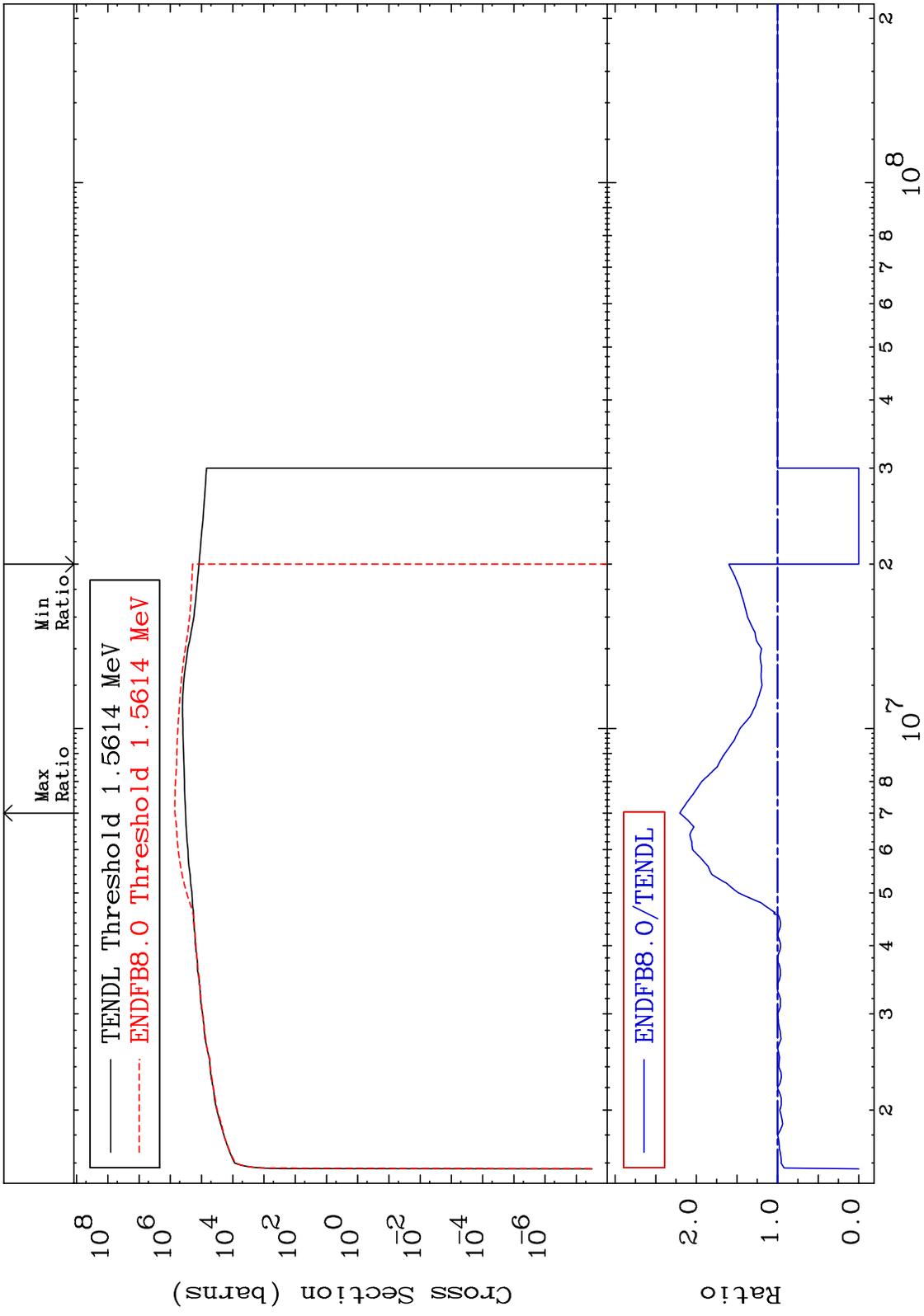
MAT 2031

Kerma non-elastic (all but mt2)
Cross Section

20-Ca-42
-100.0 To 9999. %

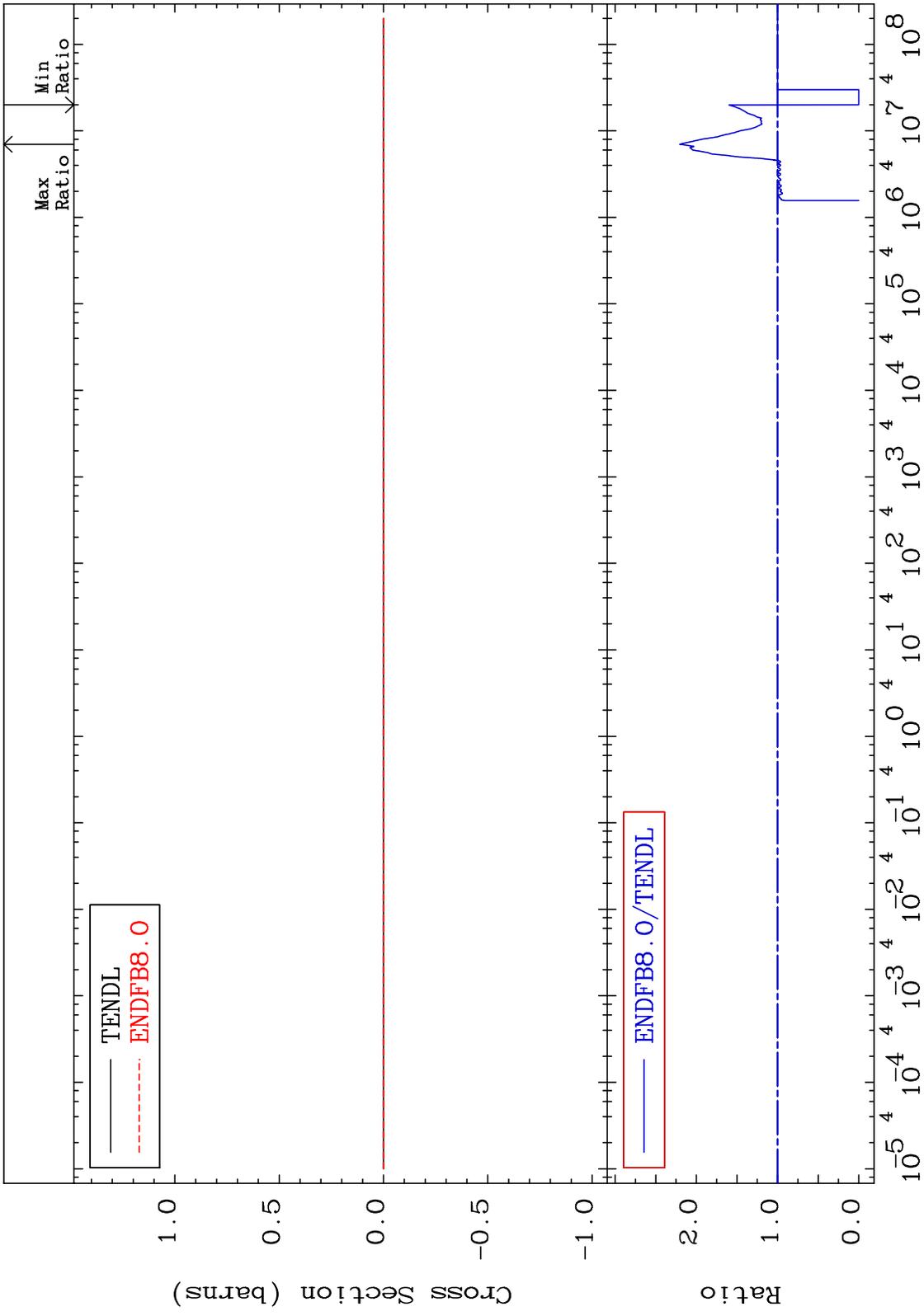


MAT 2031 Kerma inelastic (mt51-91) 20-Ca-42
 -100.0 To 120.4 % Cross Section



50 Incident Energy (eV) 20-Ca-42

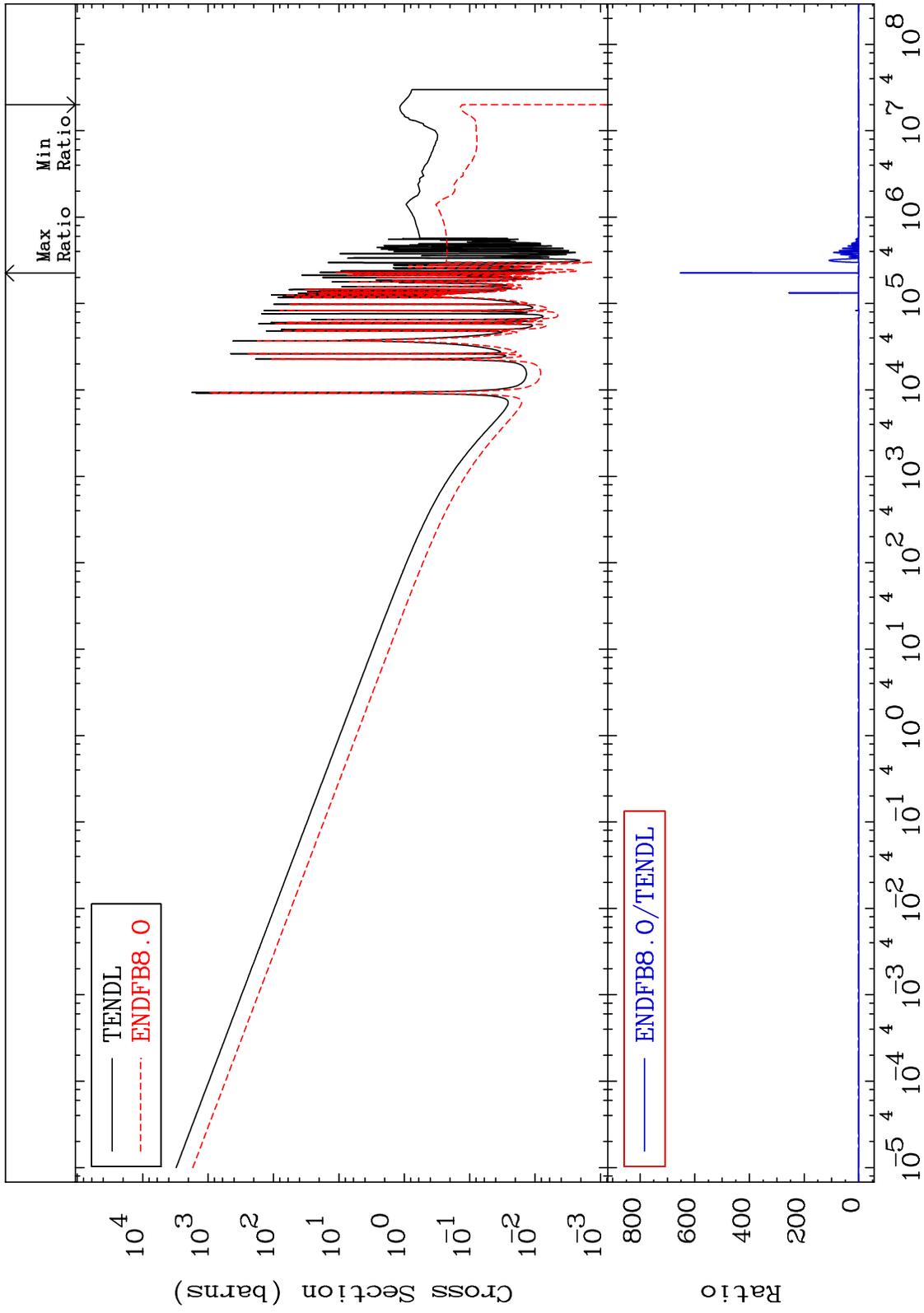
MAT 2031 Kerma fission (mt18 or mt19-20-21-38) 20-Ca-42
 Cross Section -100.0 To 120.4 %



MAT 2031

Kerma capture (mt102)
Cross Section

20-Ca-42
-100.0 To 9999. %



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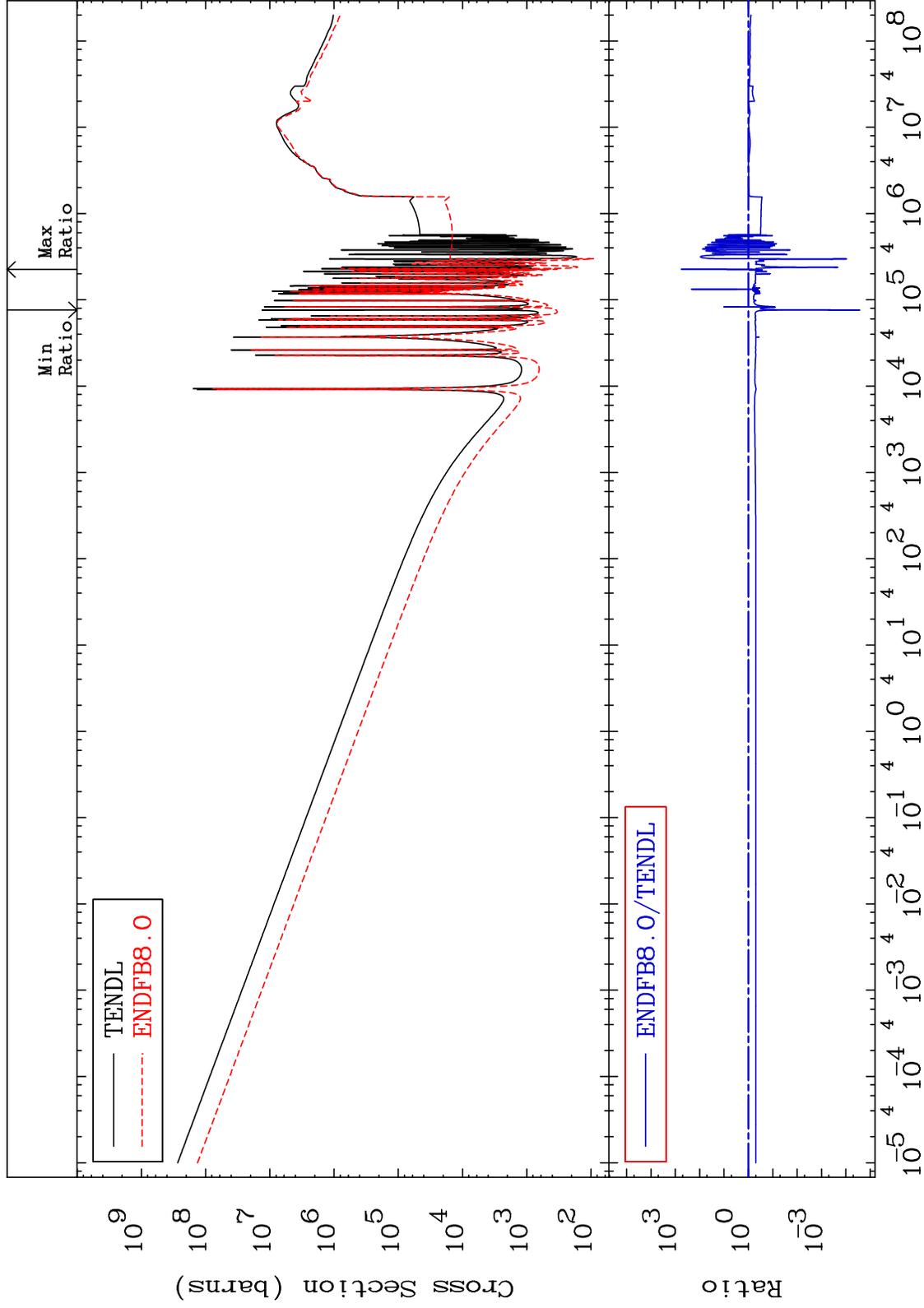
Incident Energy (eV)

20-Ca-42

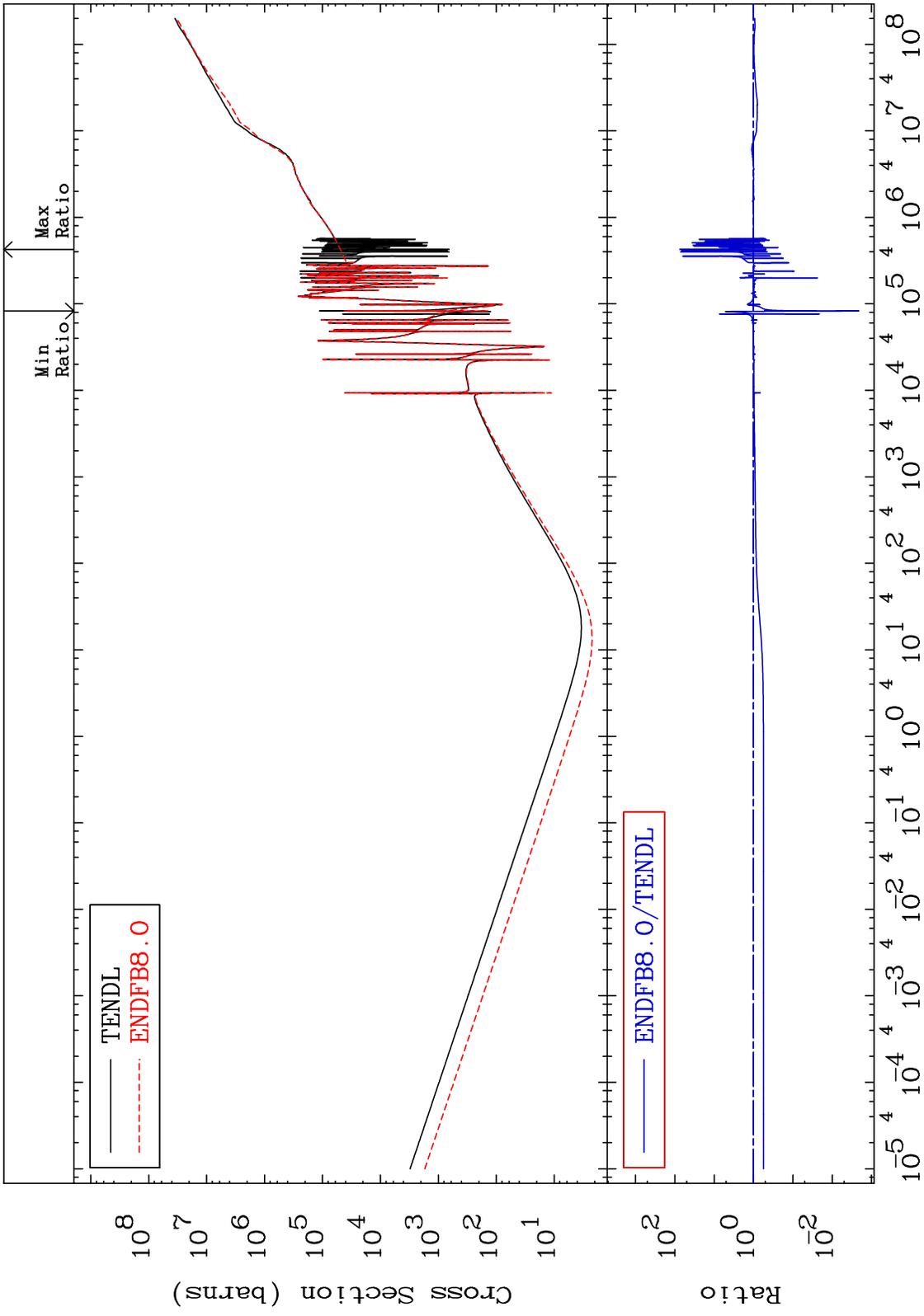
MAT 2031

Total photon (eV-barns)
Cross Section

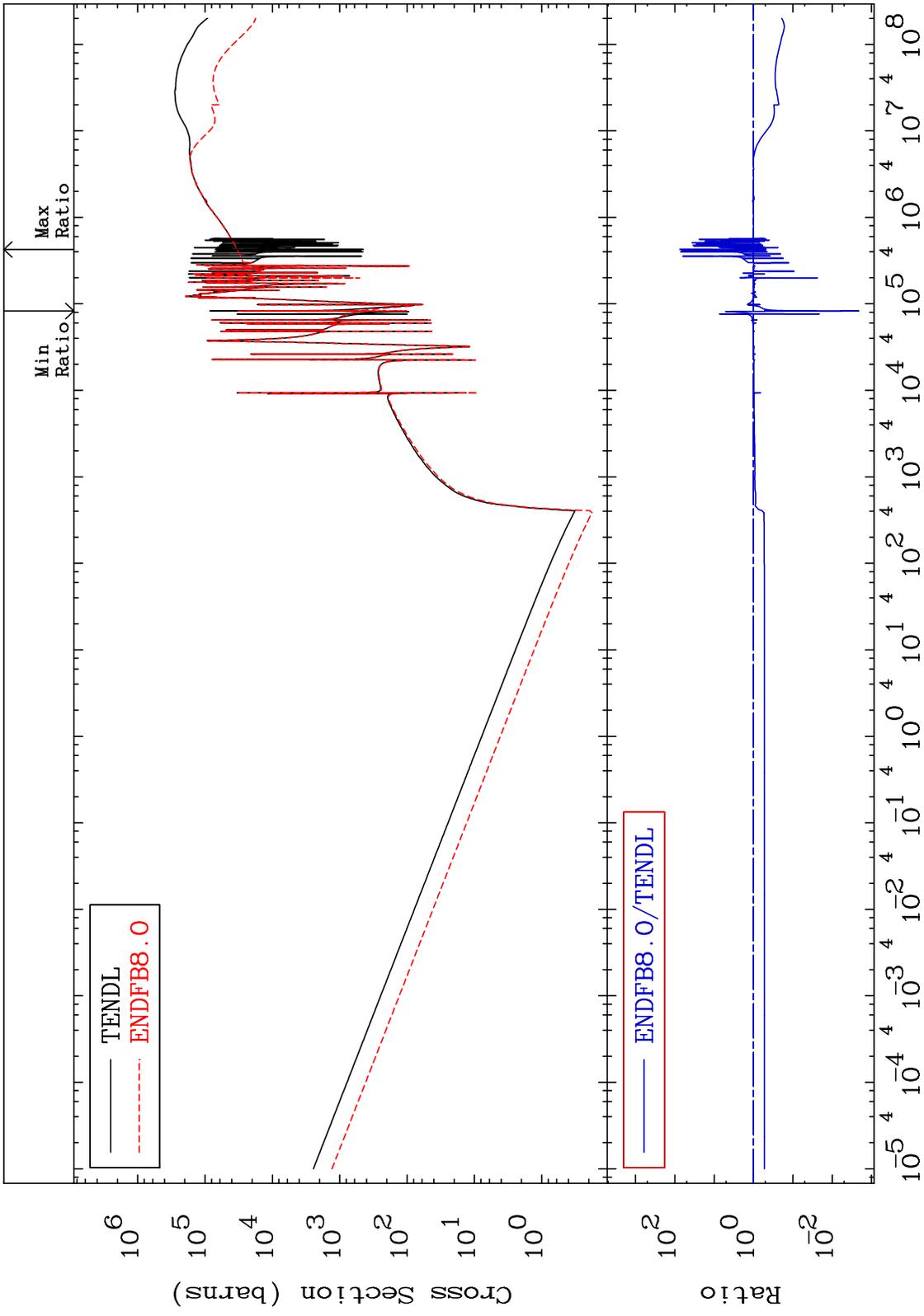
20-Ca-42
-100.0 To 9999. %



MAT 2031 Total kinematic kerma (high limit) Cross Section 20-Ca-42
 -99.79 To 7415. %



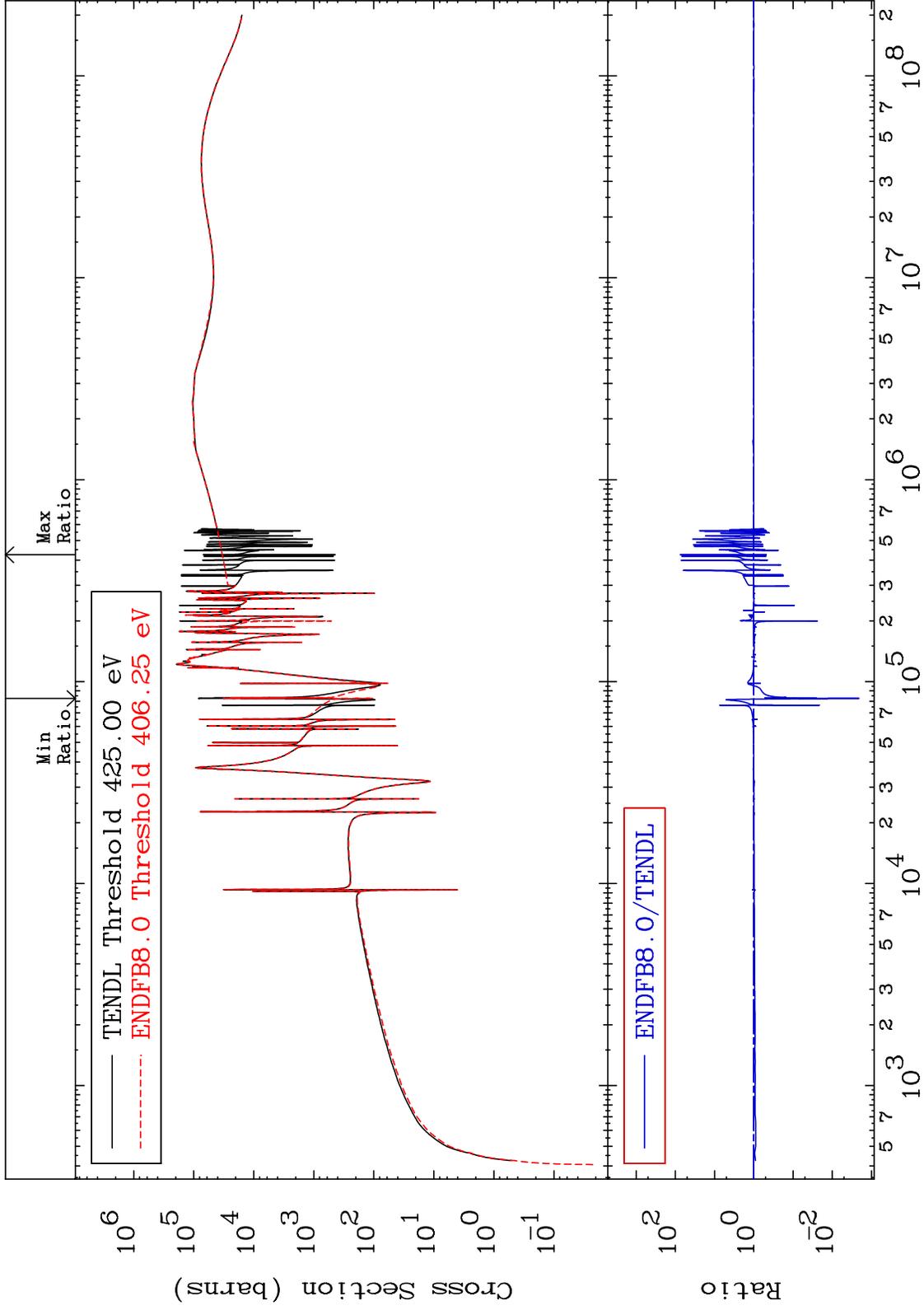
MAT 2031 Dpa total (eV-barns) 20-Ca-42
 Cross Section -99.79 To 7414. %



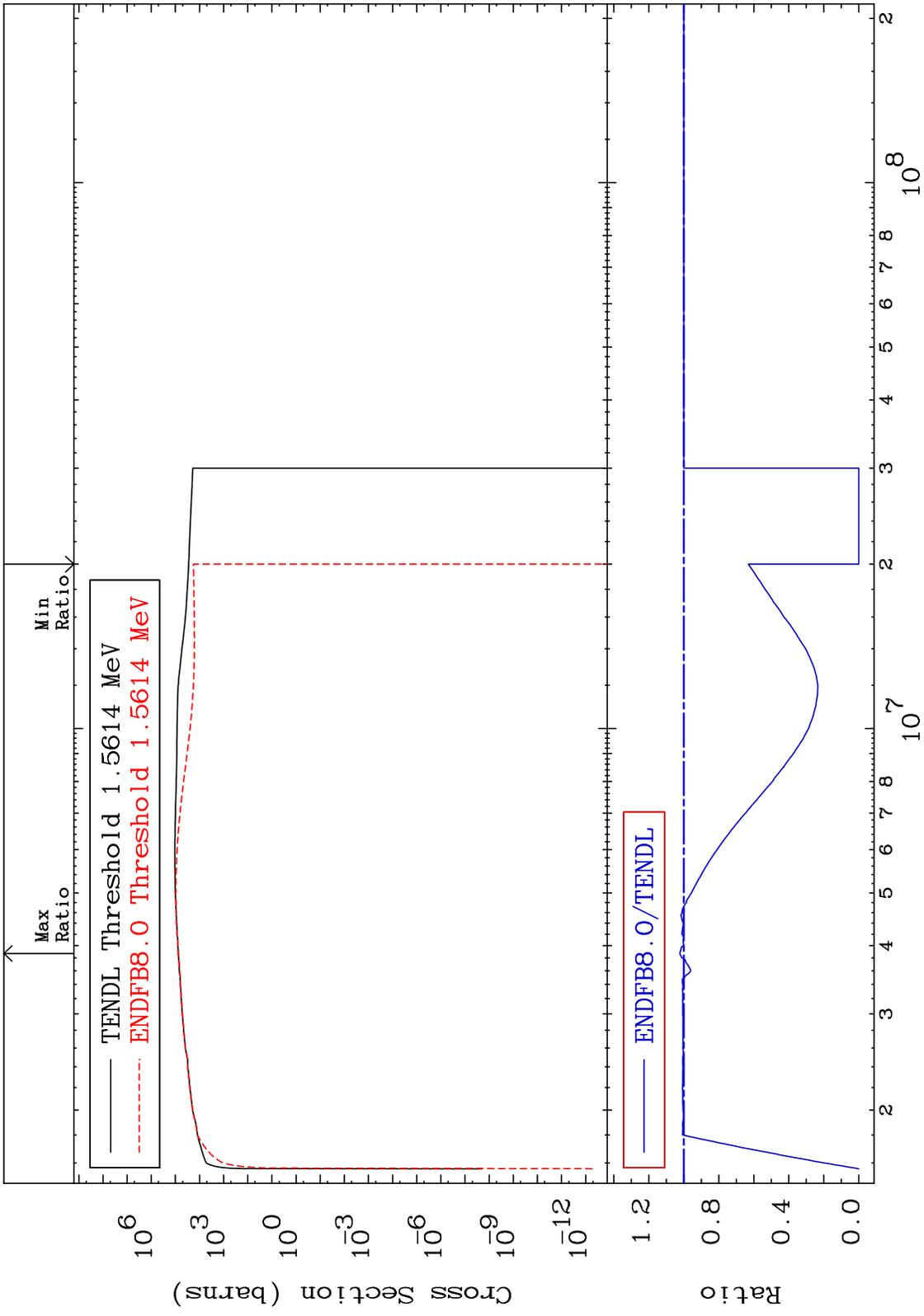
MAT 2031

Dpa elastic (mt2)
Cross Section

20-Ca-42
-99.79 To 7421. %



MAT 2031 Dpa inelastic (mt51-91) 20-Ca-42
 Cross Section -100.0 To 2.306 %



MAT 2031

Dpa disappearance (mt102 -120)
Cross Section

20-Ca-42
-100.0 To 9999. %

