

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

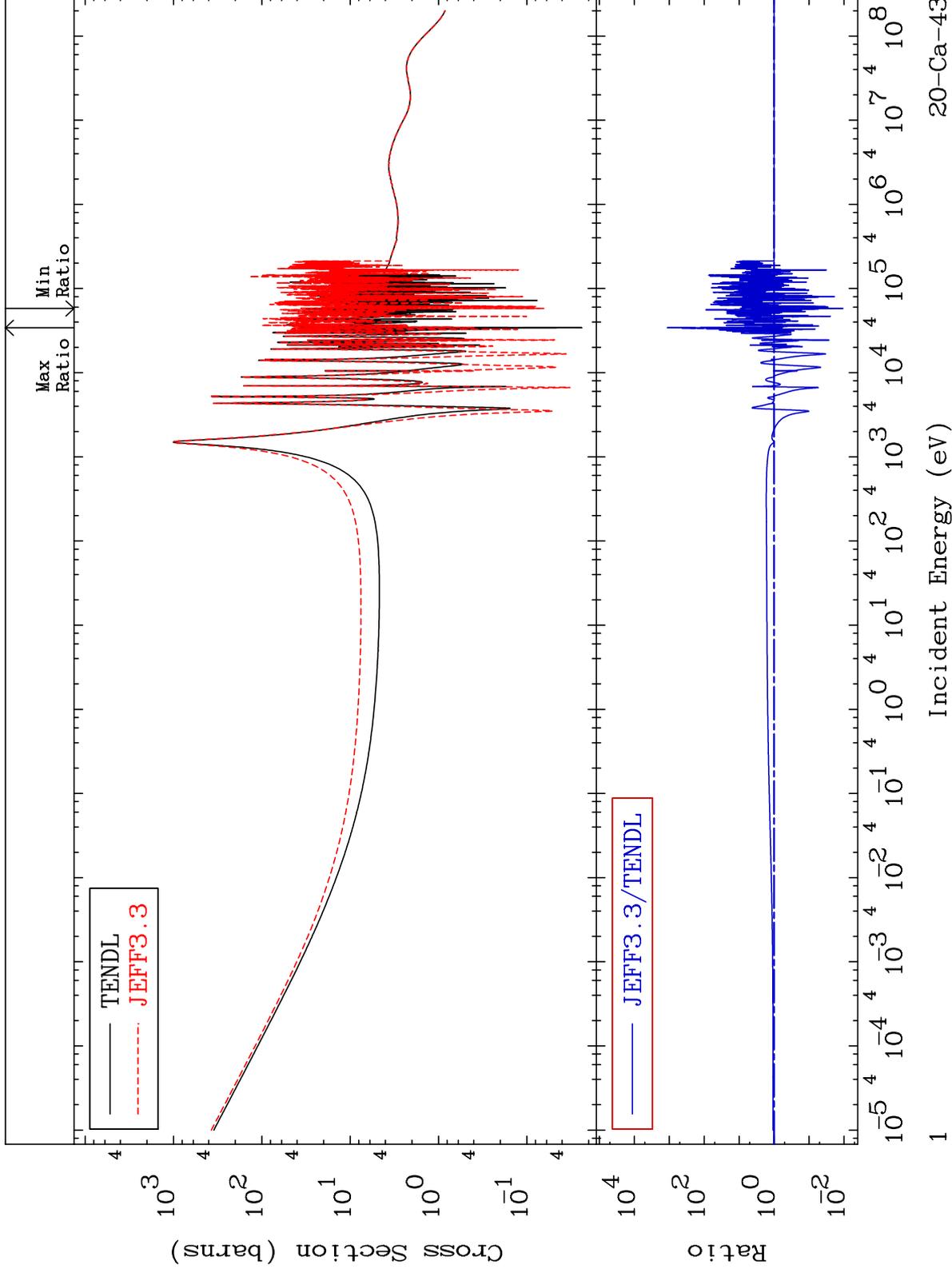
MAT 2034

Total

20-Ca-43

Cross Section

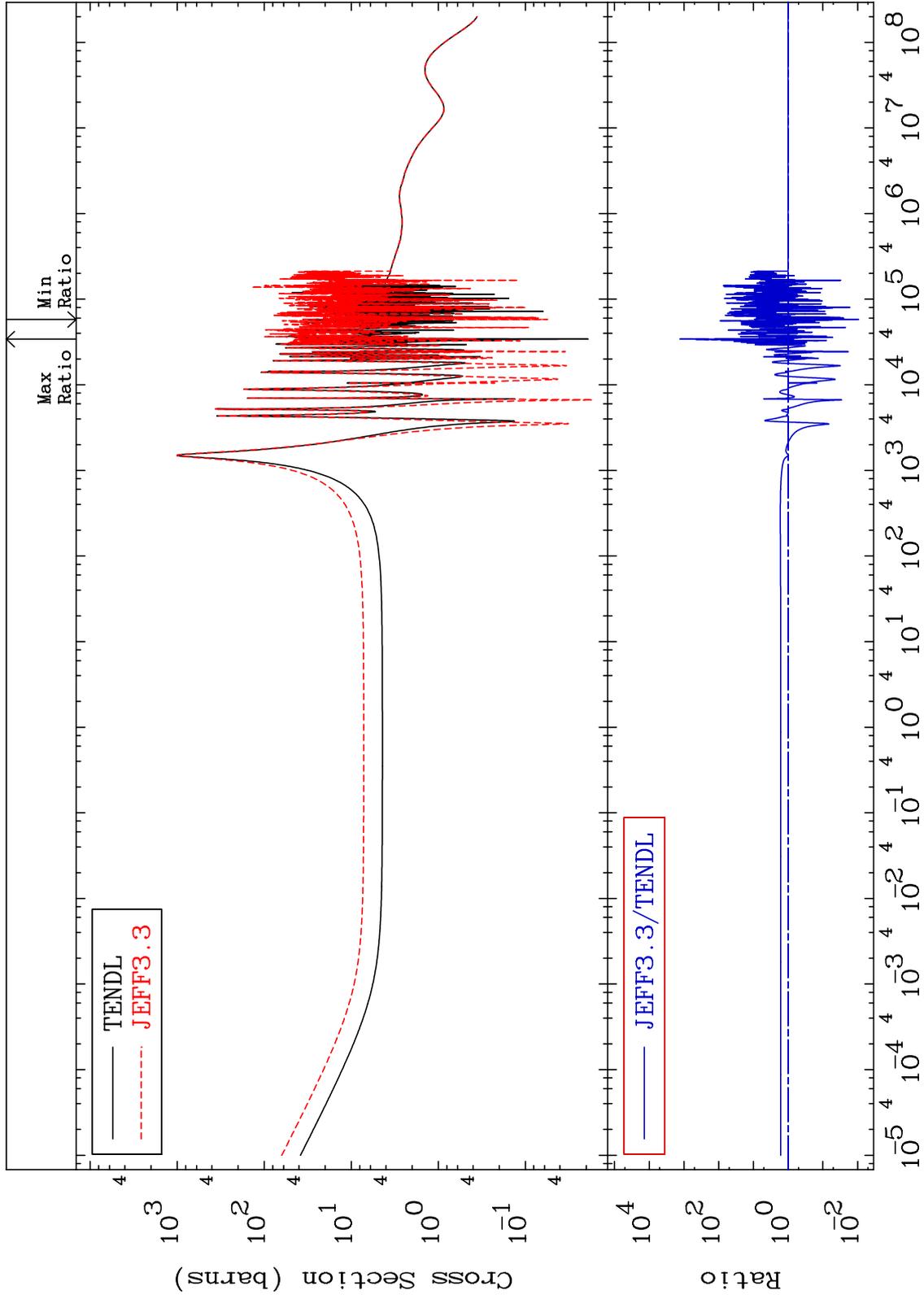
-98.92 To 9999. %



MAT 2034

Elastic
Cross Section

20-Ca-43
-99.05 To 9999. %



Incident Energy (eV)

20-Ca-43

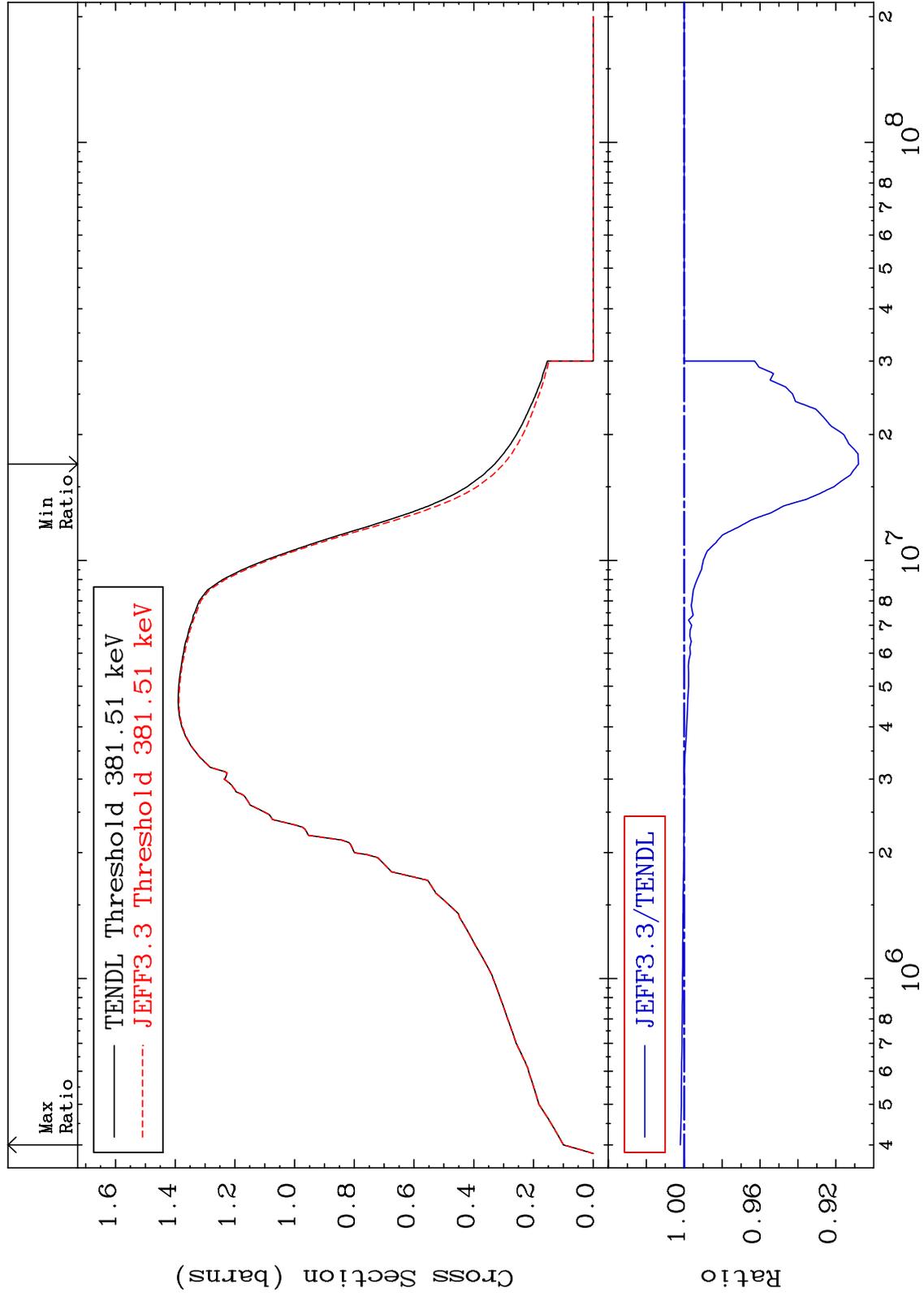
MAT 2034

Inelastic

20-Ca-43

Cross Section

-9.197 To 0.205 %



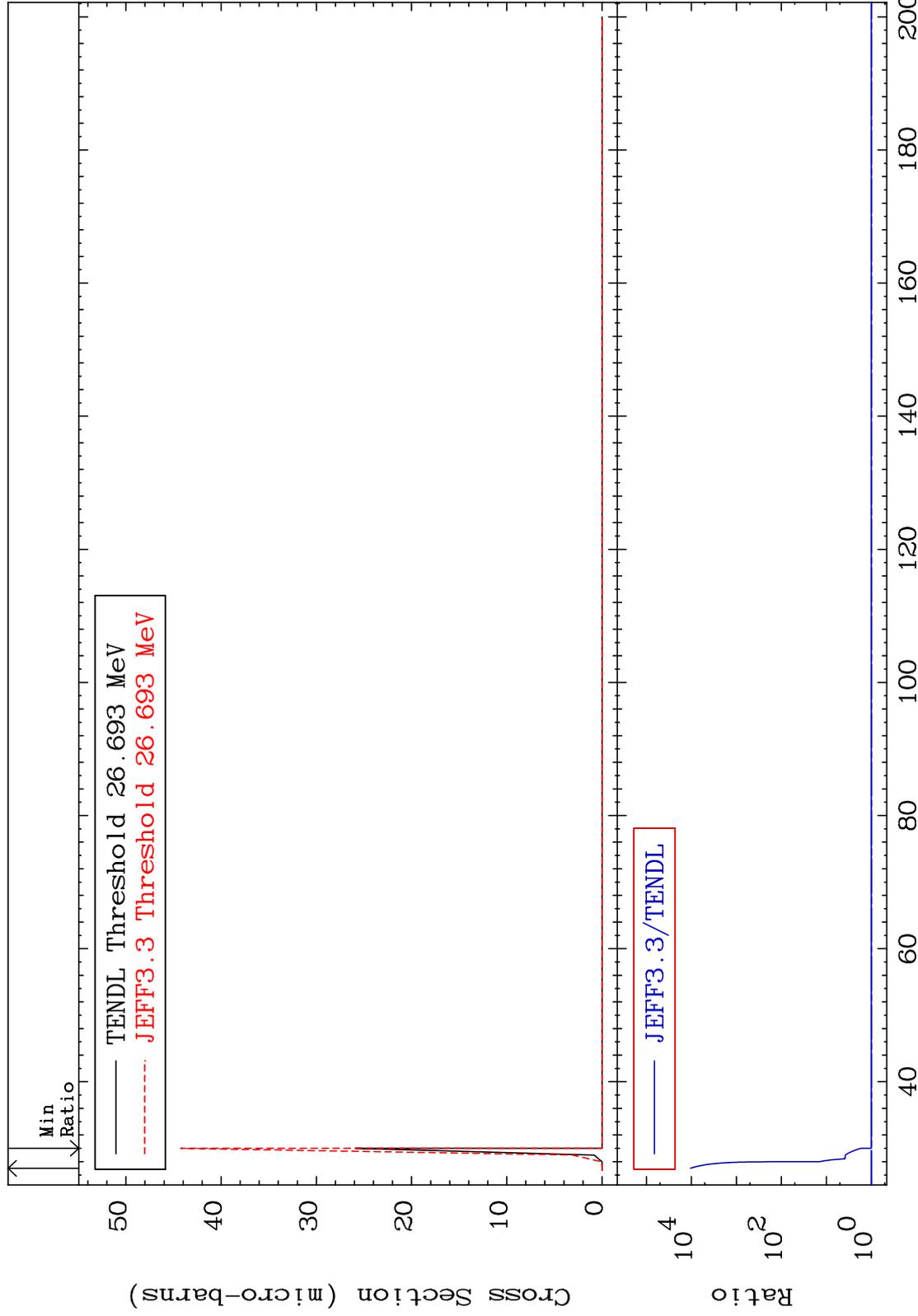
MAT 2034

(n,2n) d

20-Ca-43

Cross Section

0.000 To 9999. %



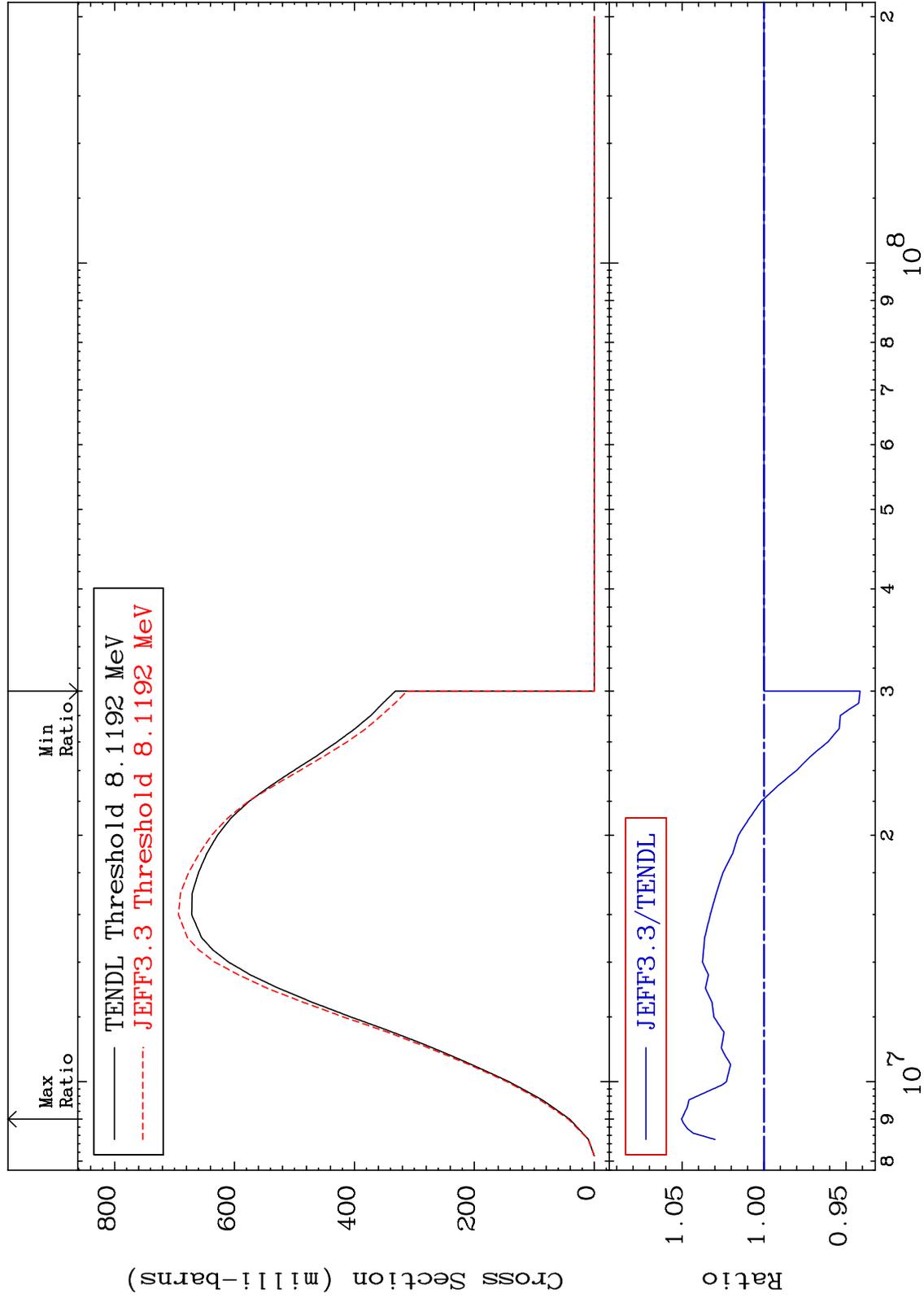
MAT 2034

(n, 2n)

20-Ca-43

Cross Section

-5.860 To 5.035 %



Incident Energy (eV)

20-Ca-43

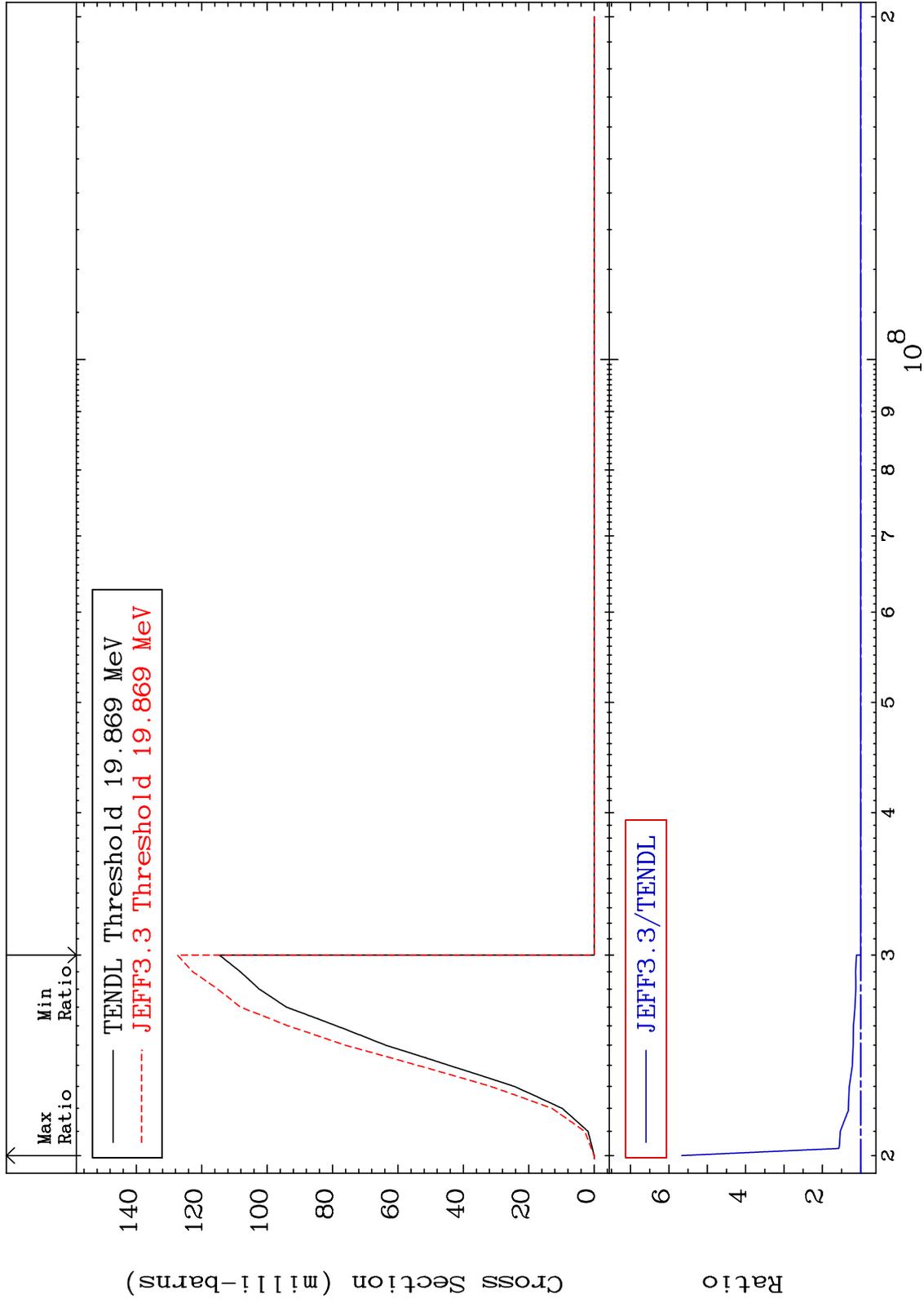
MAT 2034

(n,3n)

20-Ca-43

Cross Section

0.000 To 466.5 %



6

Incident Energy (eV)

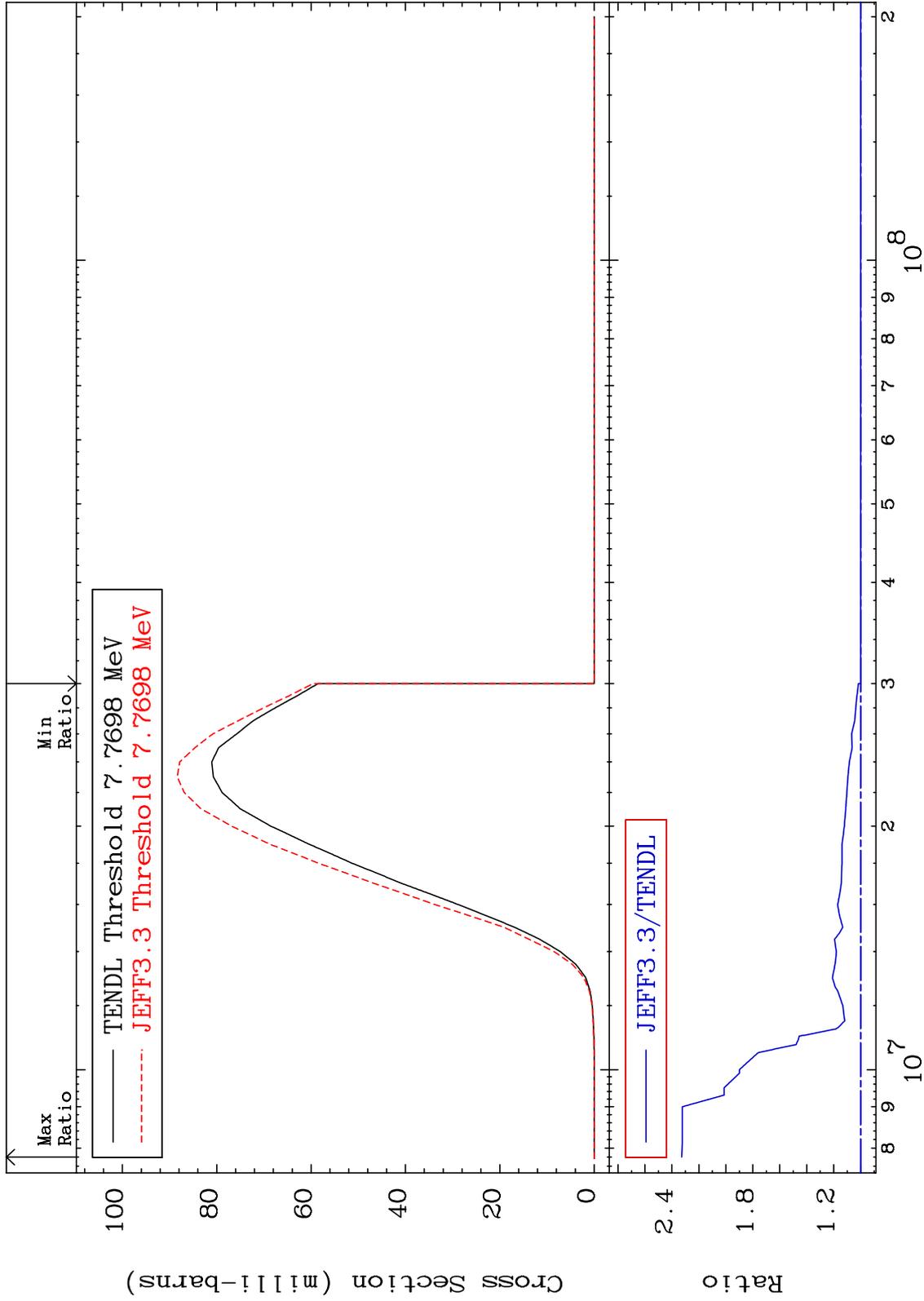
20-Ca-43

MAT 2034

(n,n') α

20-Ca-43

0.000 To 132.7 %



7

Incident Energy (eV)

20-Ca-43

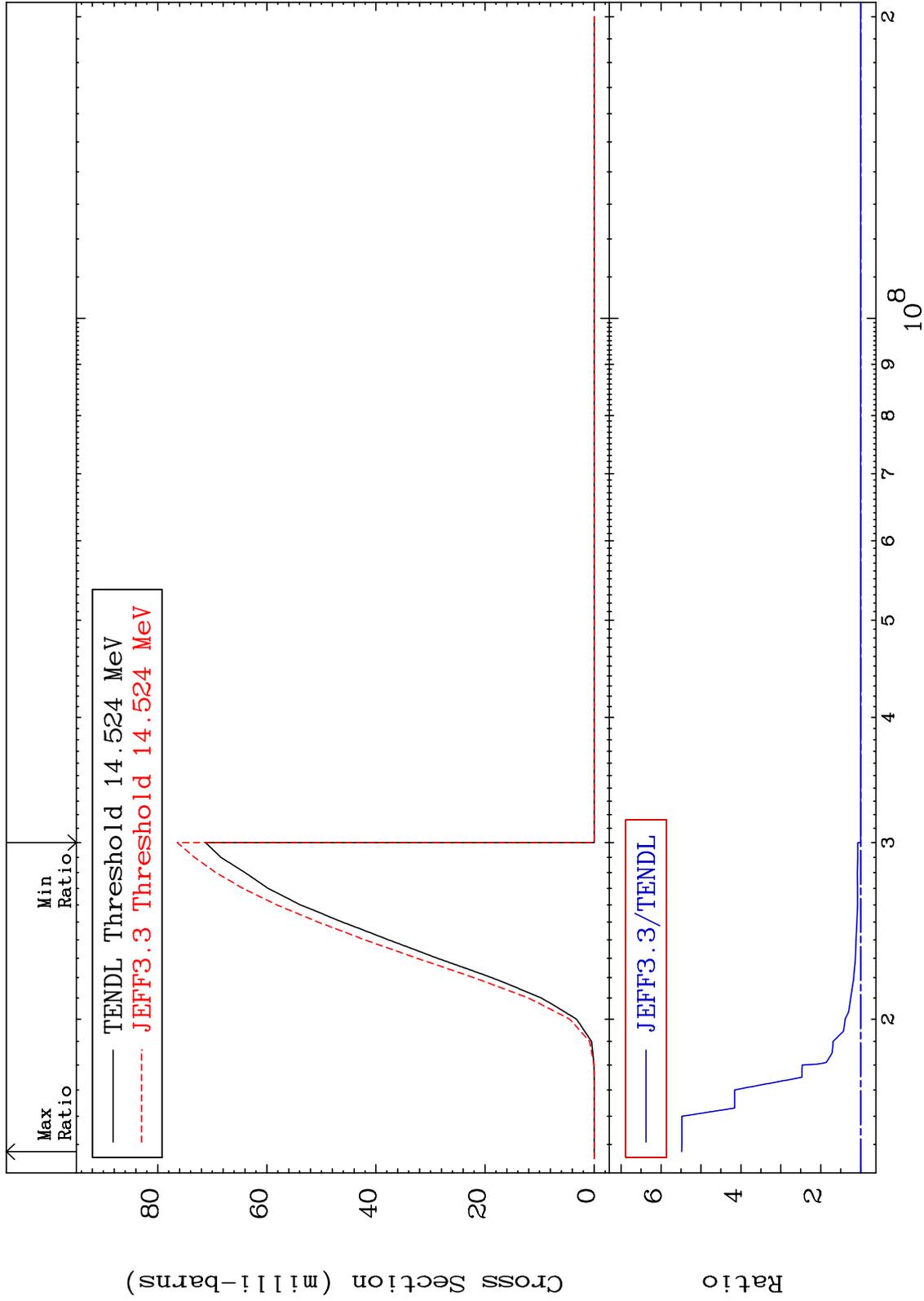
MAT 2034

(n,2n) α

²⁰Ca-43

Cross Section

0.000 To 448.1 %



MAT 2034

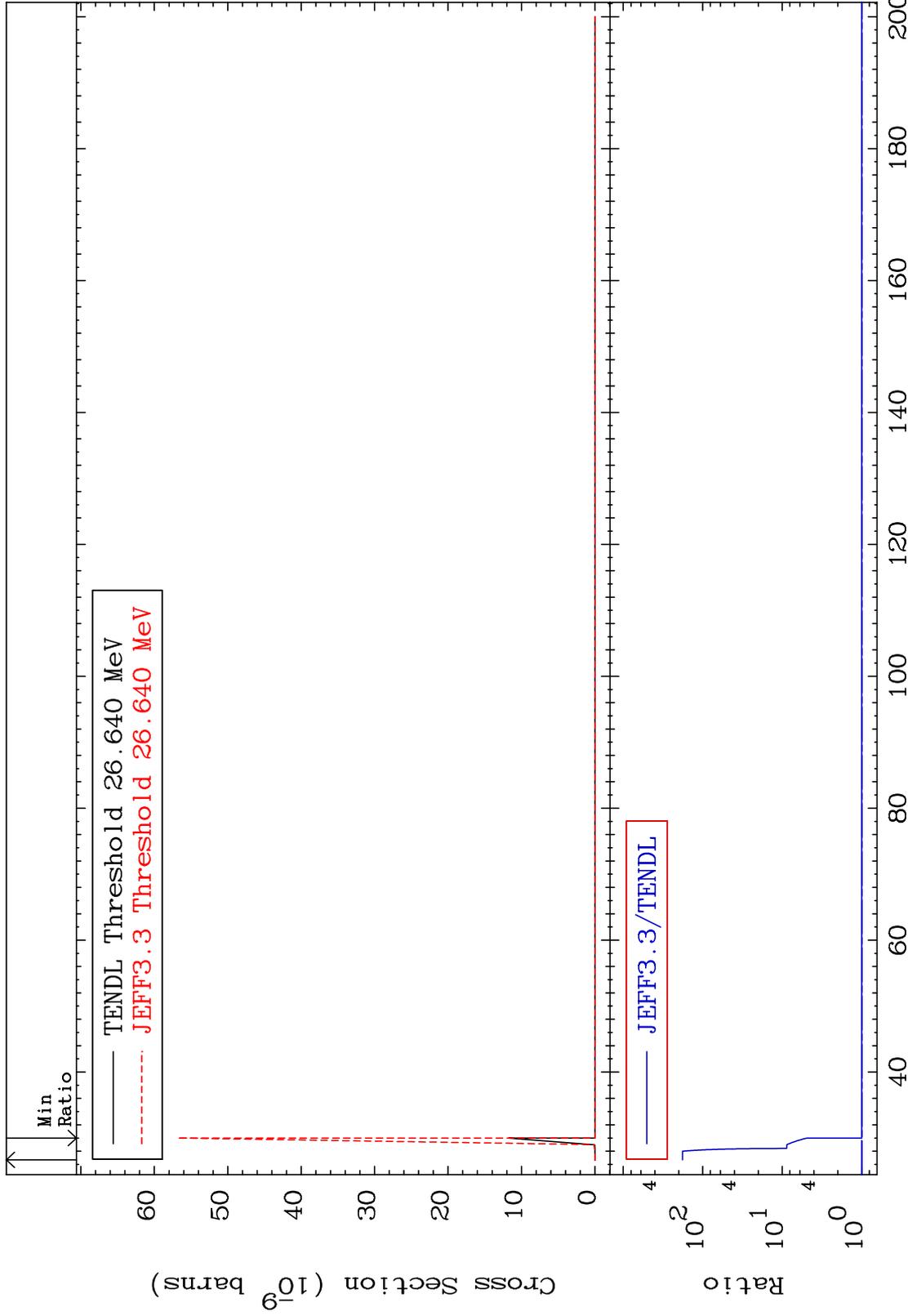
(n,3n) α

20-Ca-43

Cross Section

0.000

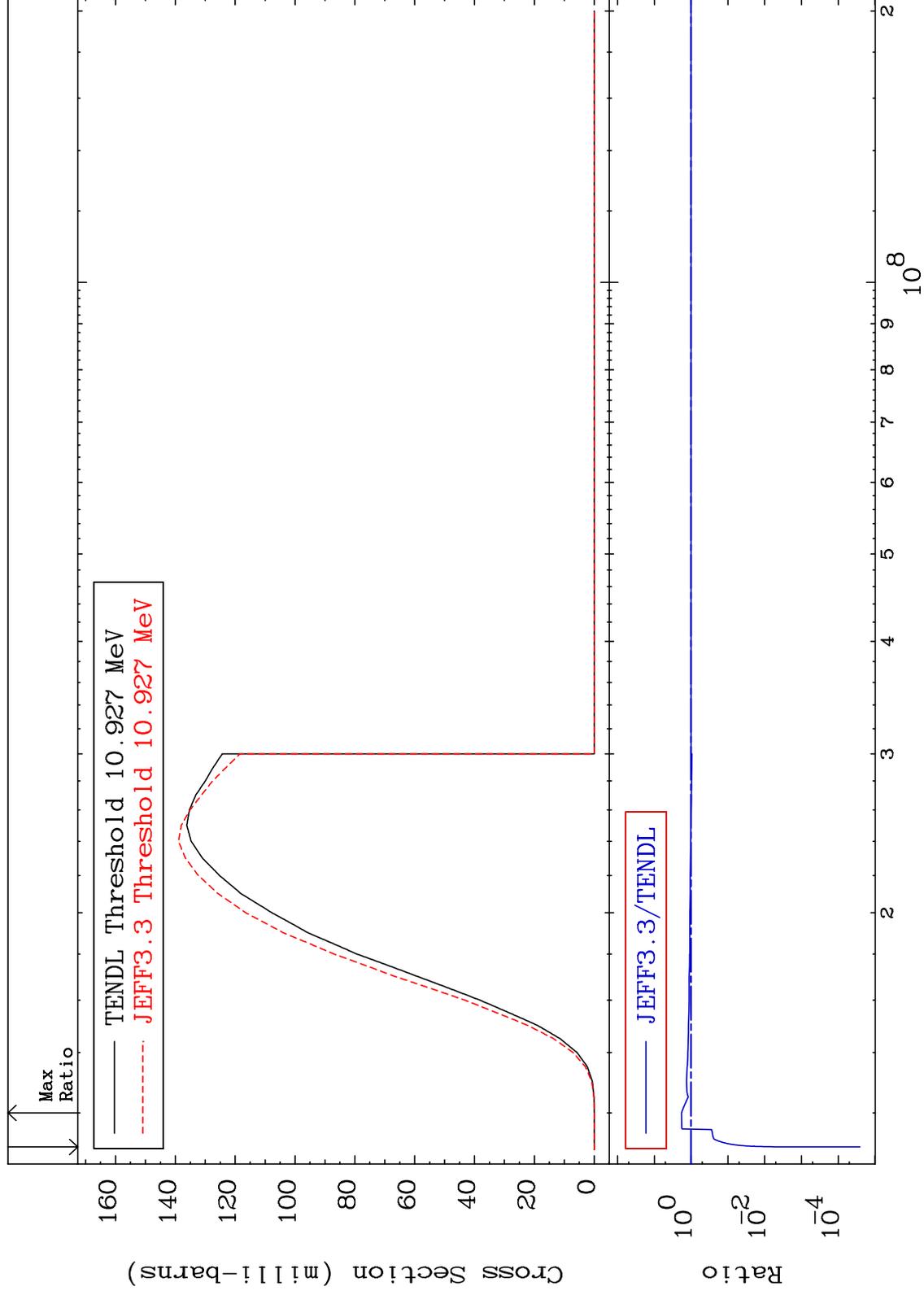
To 9999. %



MAT 2034

(n,n') p
Cross Section

20-Ca-43
-100.0 To 82.09 %



10

Incident Energy (eV)

20-Ca-43

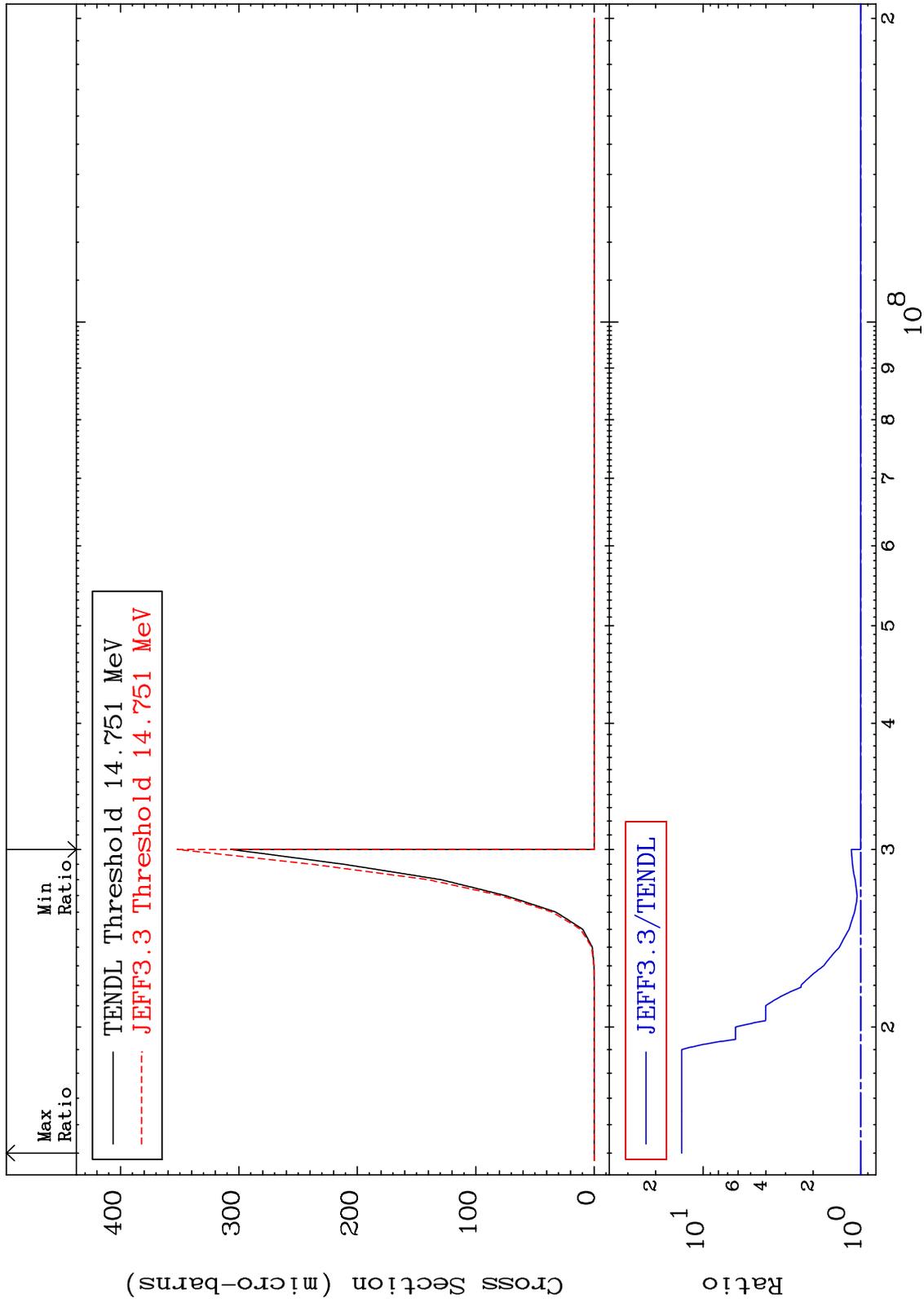
MAT 2034

(n,n') 2α

20-Ca-43

Cross Section

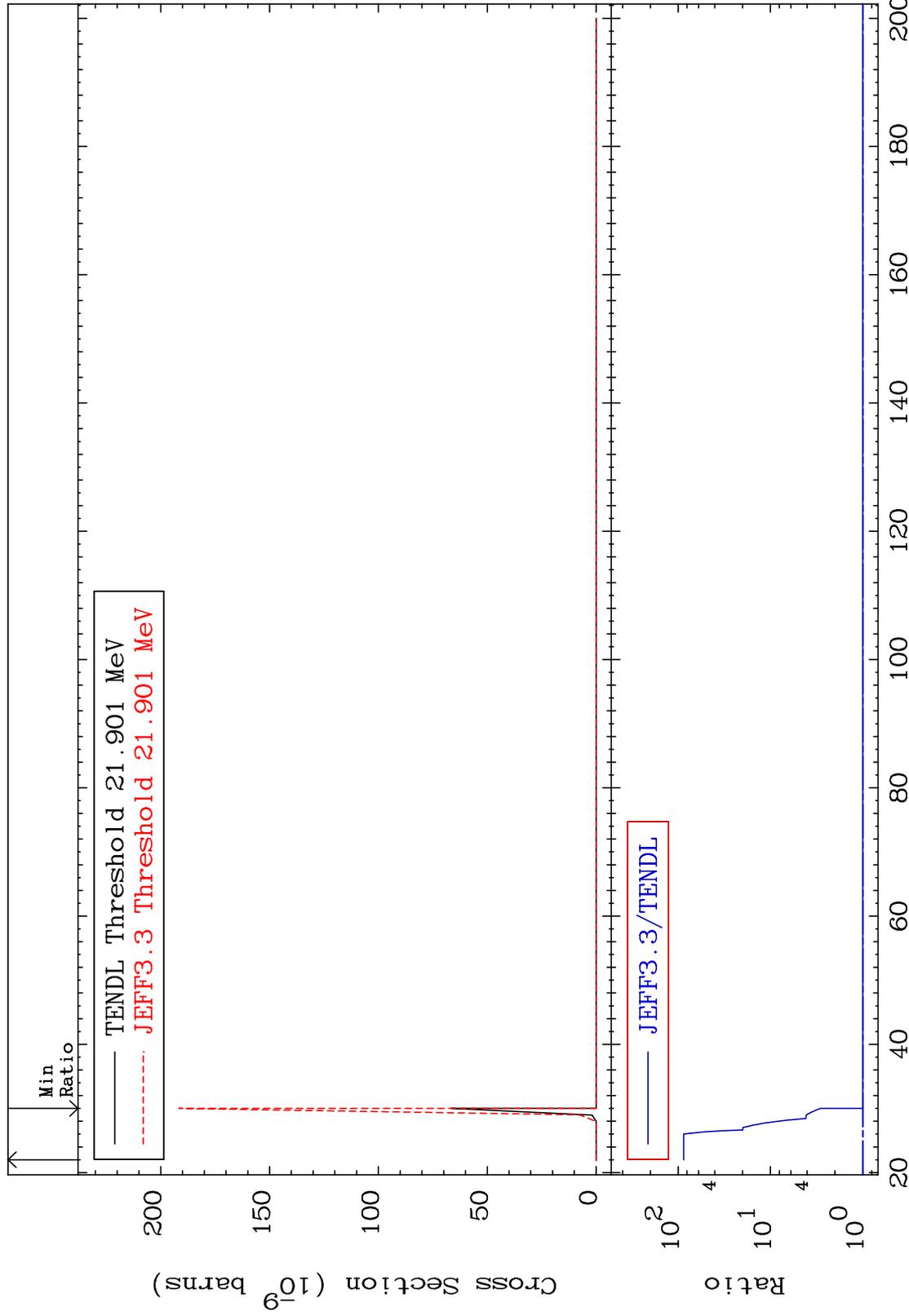
0.000 To 1267. %



MAT 2034

(n,2n) 2α
Cross Section

20-Ca-43
0.000 To 8589. %



20-Ca-43

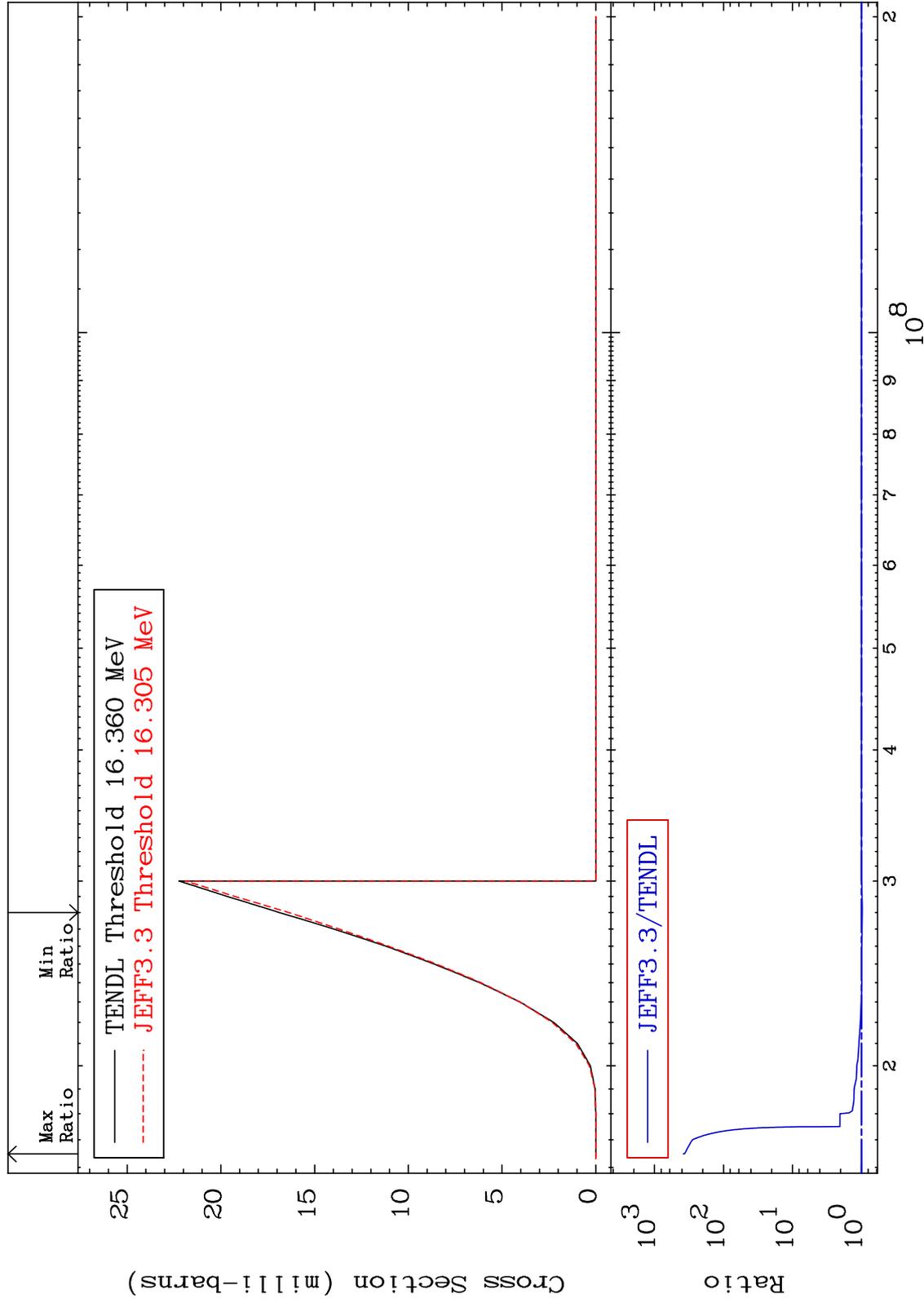
MAT 2034

(n,n') d

20-Ca-43

Cross Section

-2.959 To 9999. %



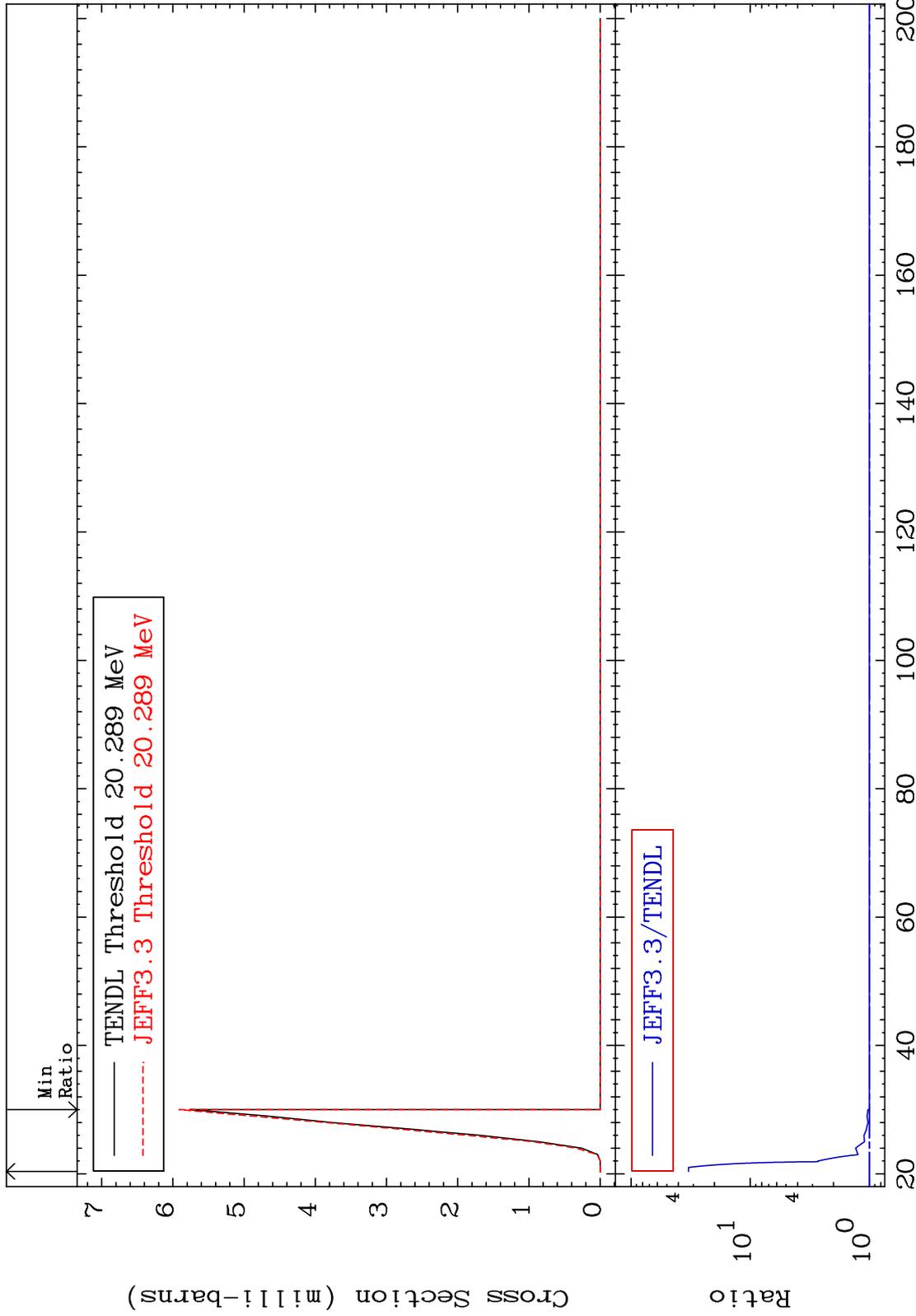
MAT 2034

(n,n') t

20-Ca-43

Cross Section

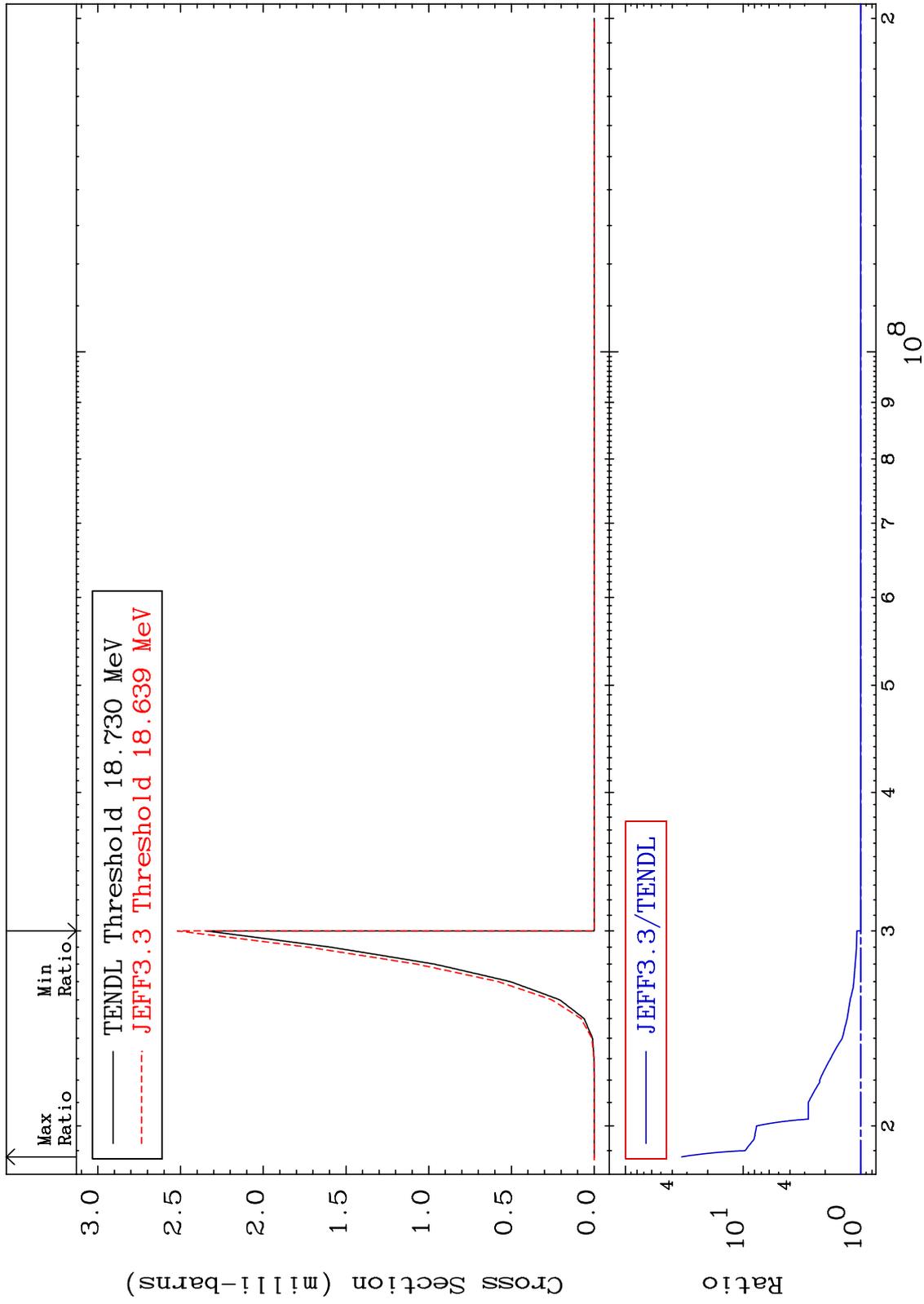
0.000 To 3188. %



MAT 2034

(n, n') He-3
Cross Section

20-Ca-43
0.000 To 3227. %



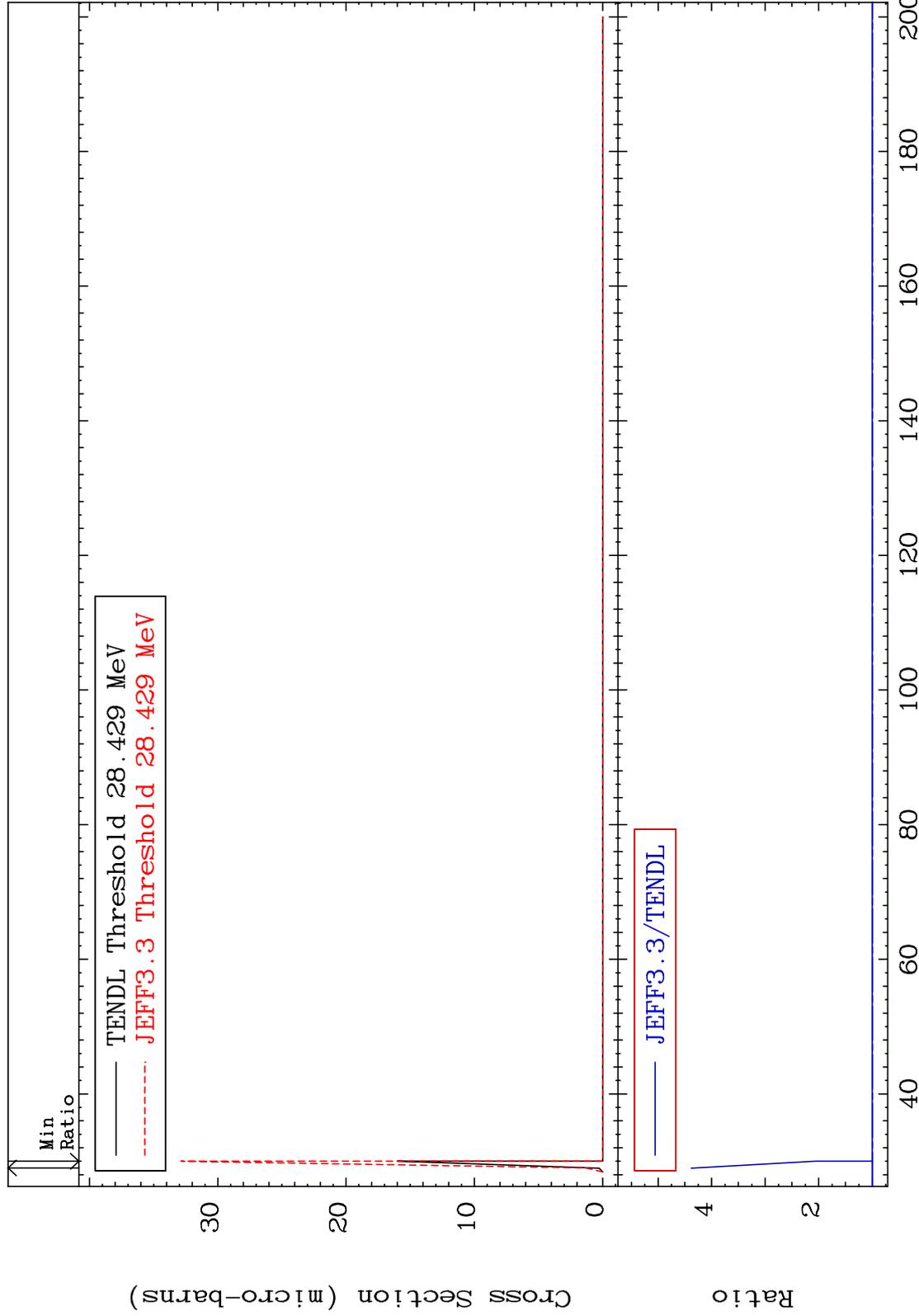
MAT 2034

(n, 4n)

20-Ca-43

Cross Section

0.000 To 338.1 %



16

Incident Energy (MeV)

20-Ca-43

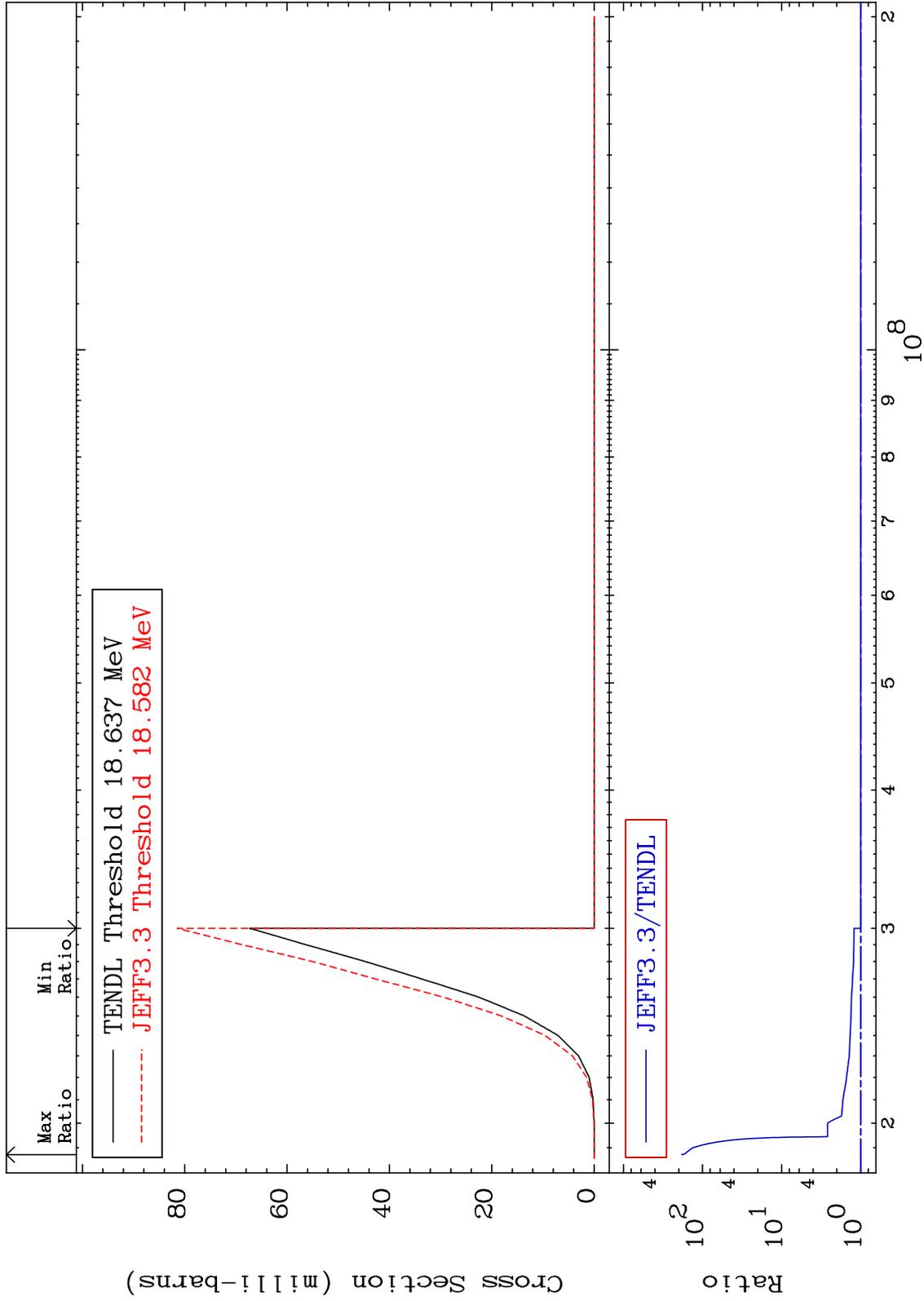
MAT 2034

(n,2n) p

20-Ca-43

Cross Section

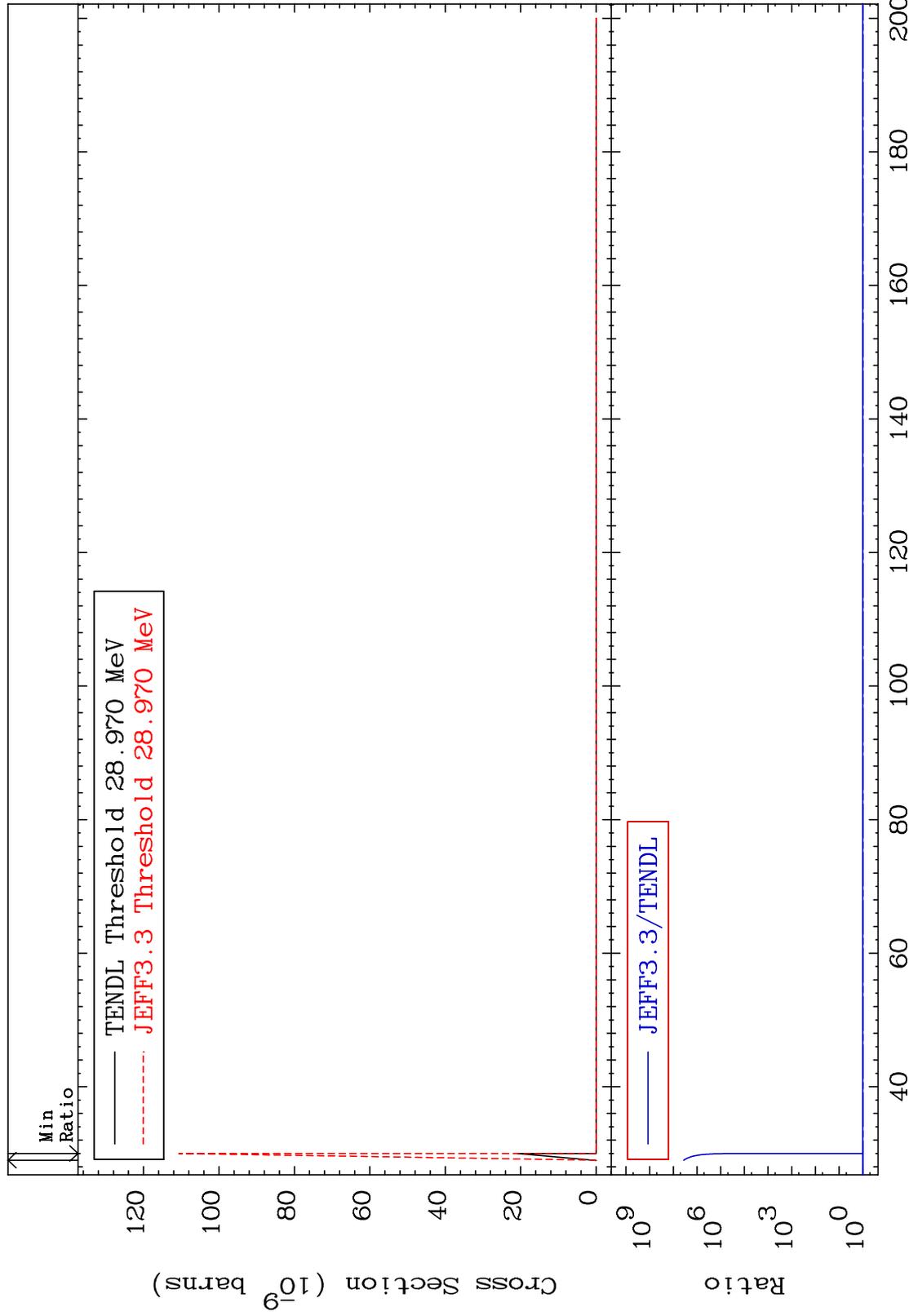
0.000 To 9999. %



MAT 2034

(n,3n) p
Cross Section

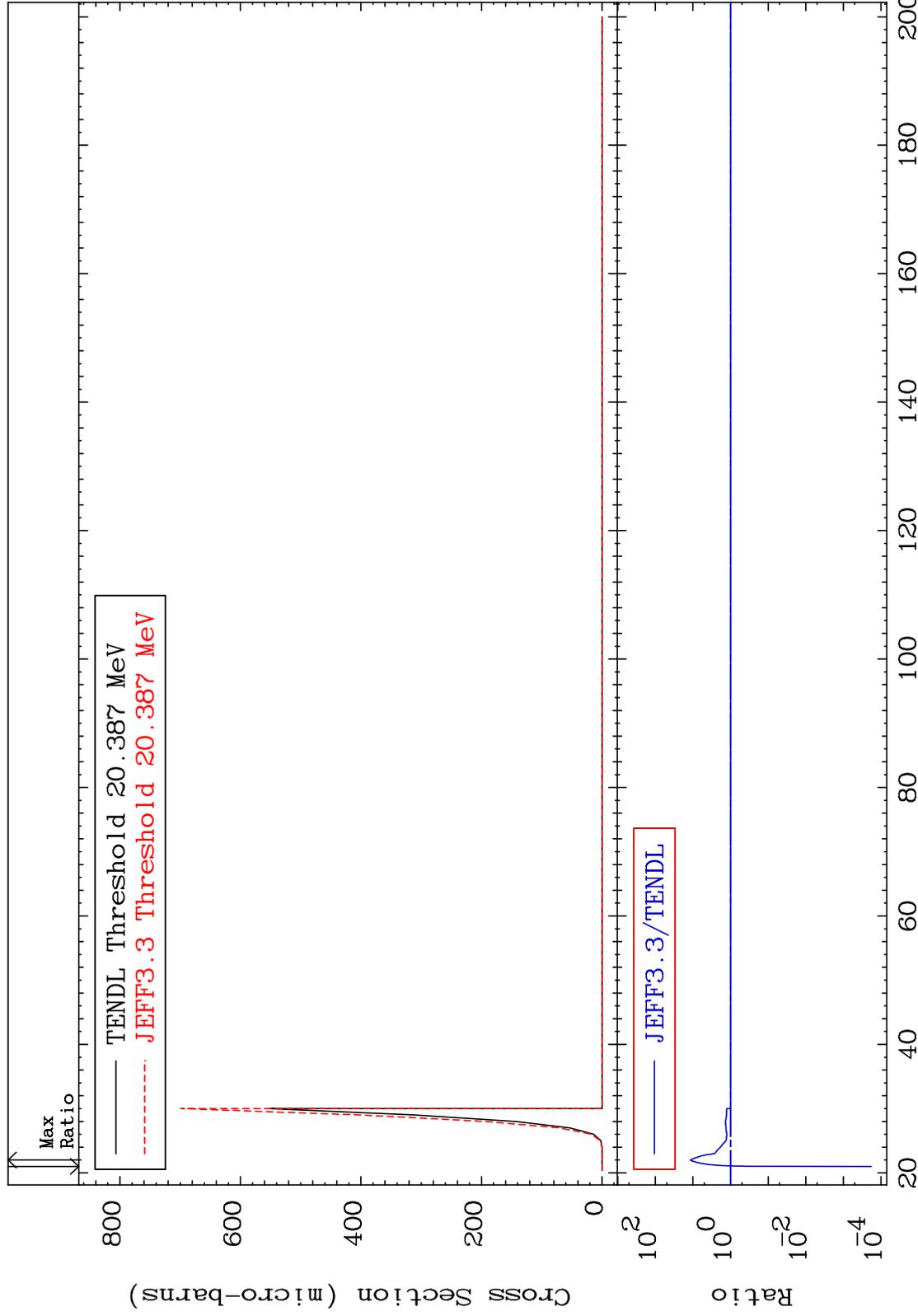
20-Ca-43
0.000 To 9999. %



MAT 2034

(n,2n) p
Cross Section

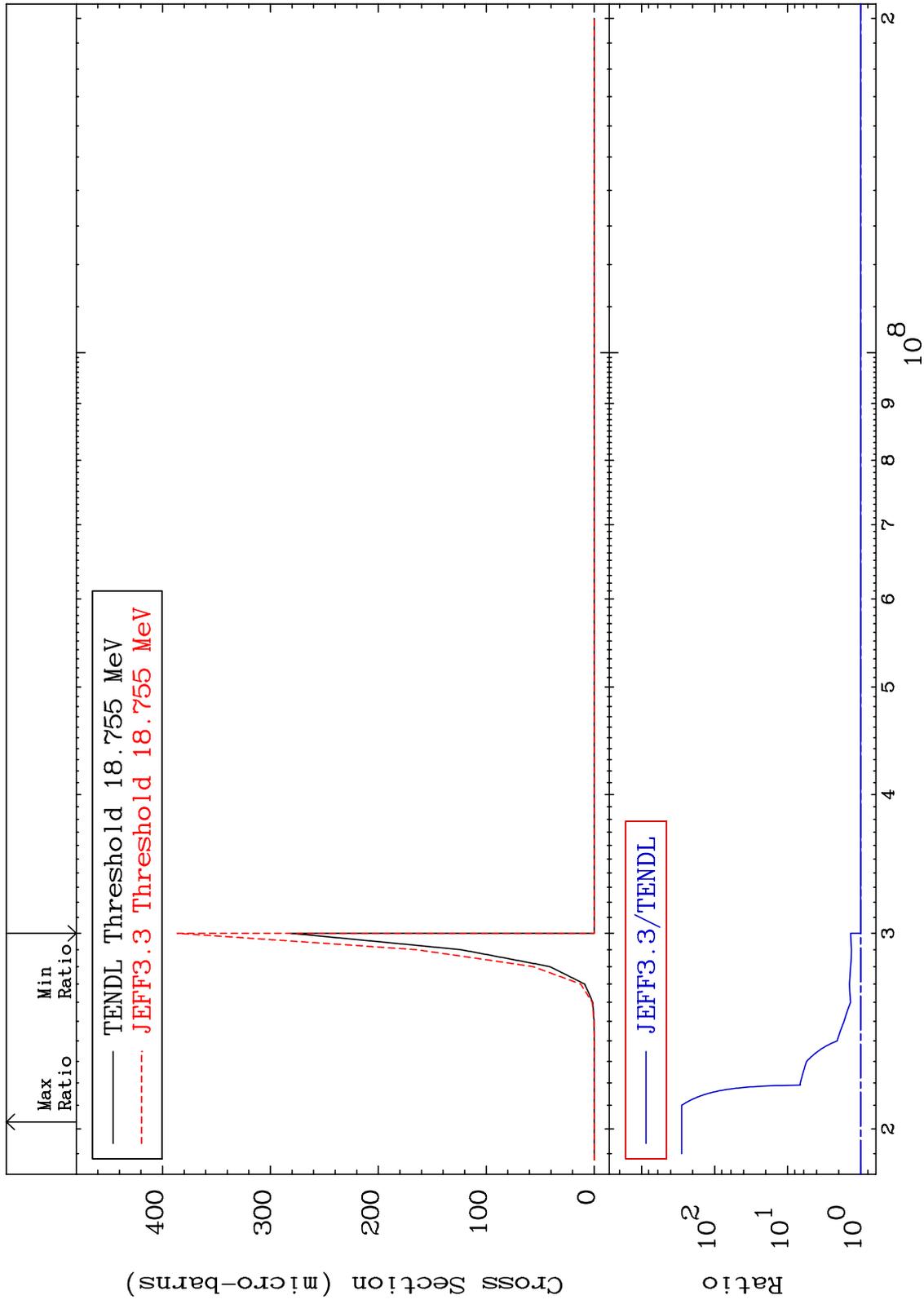
20-Ca-43
-99.98 To 1063. %



MAT 2034

(n,n') p α
Cross Section

0.000 To 9999. %
20-Ca-43



20

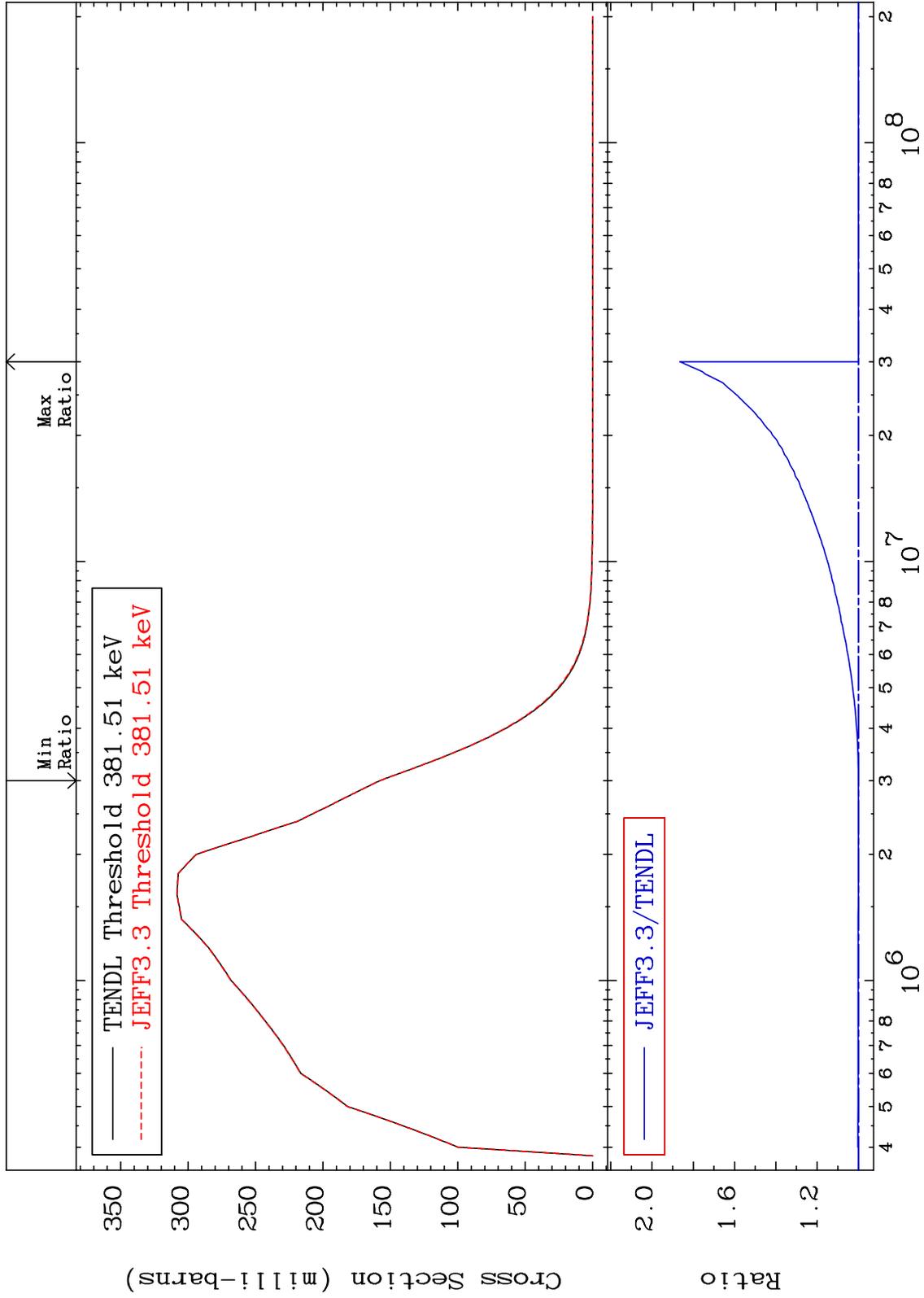
Incident Energy (eV)

20-Ca-43

MAT 2034

MT= 51 (n, n') Level
Cross Section

20-Ca-43
-0.012 To 86.47 %



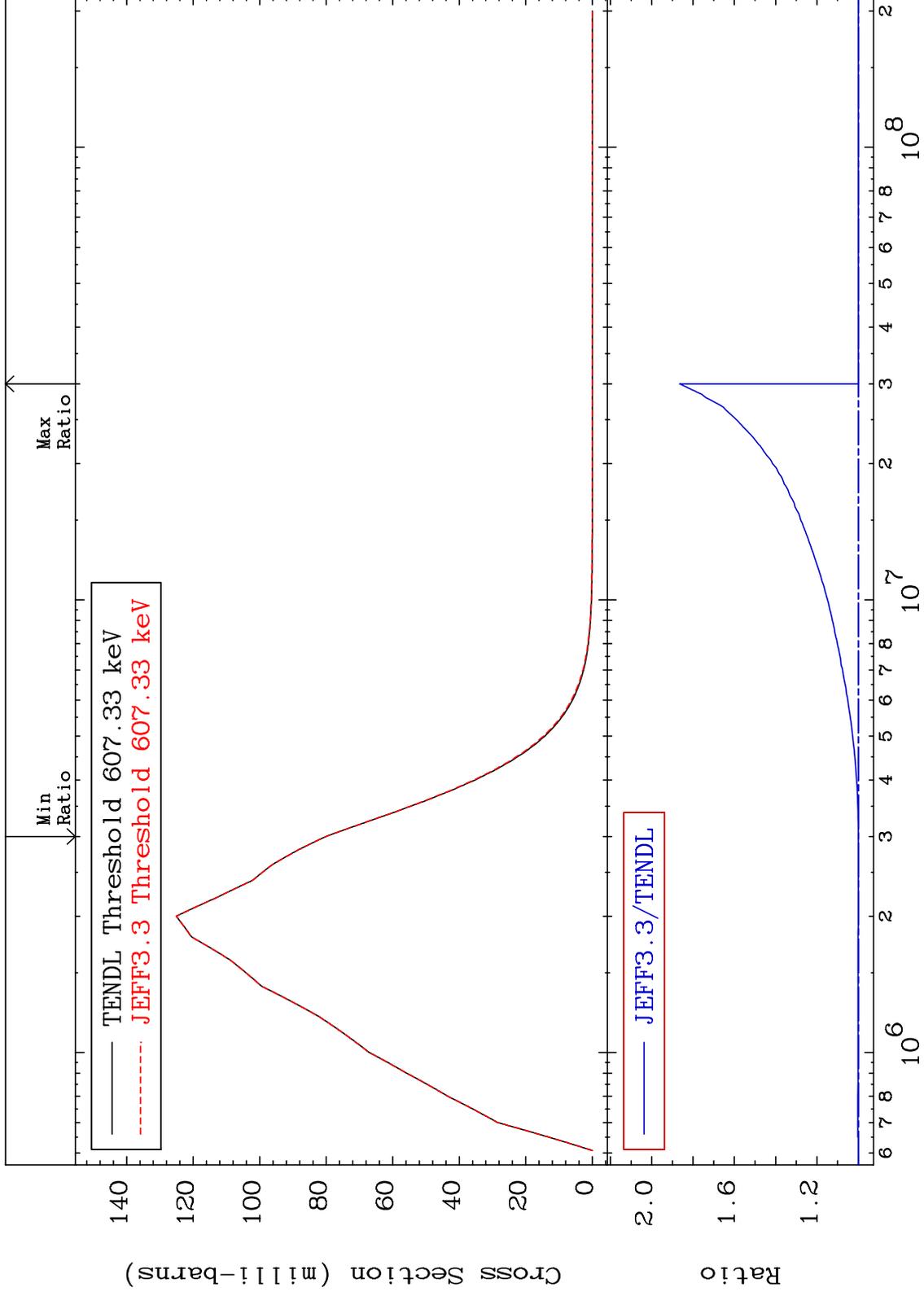
MAT 2034

MT= 52 (n,n') Level

20-Ca-43

Cross Section

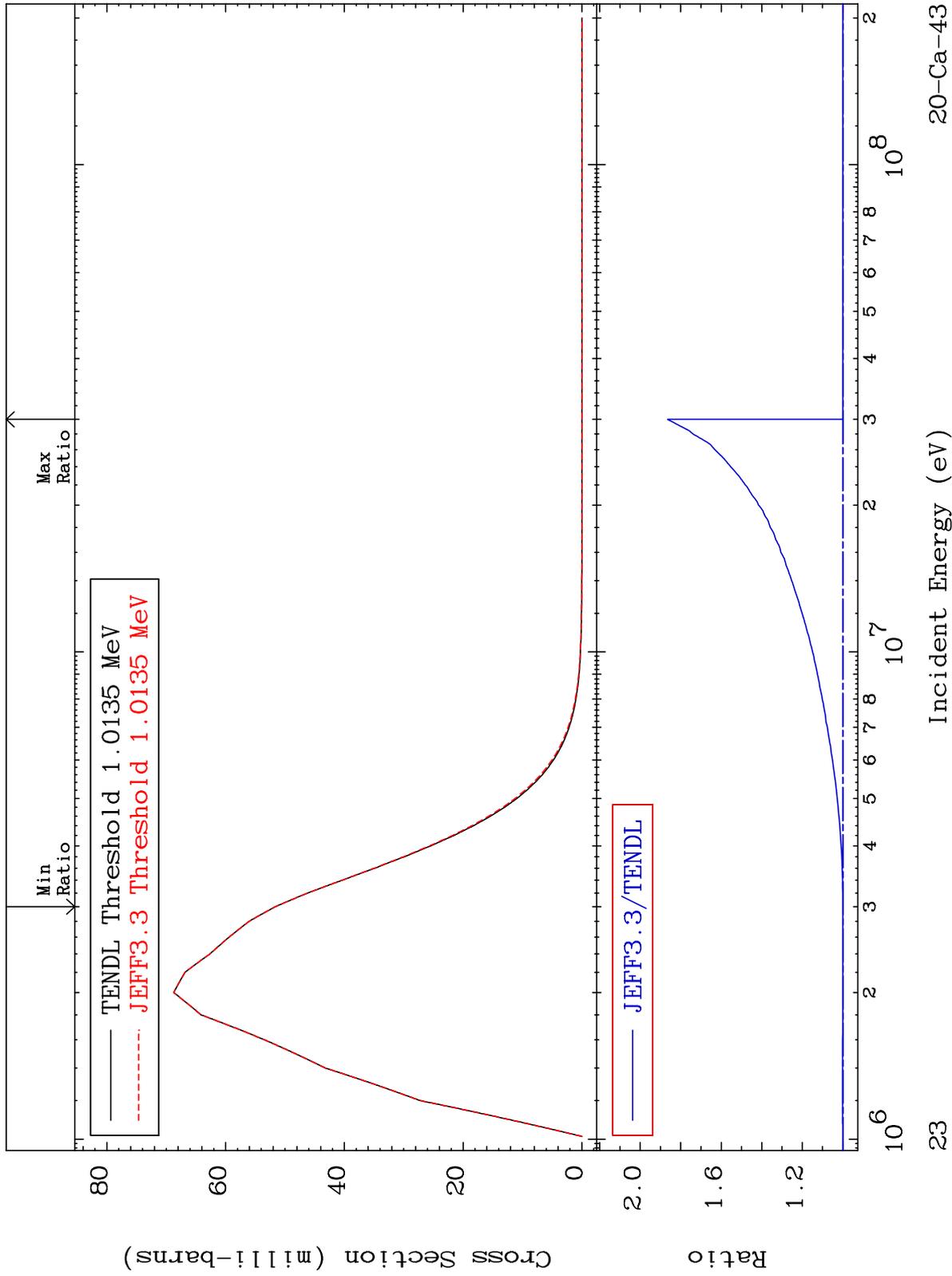
-0.041 To 86.46 %



MAT 2034

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

20-Ca-43
-0.026 To 86.46 %



23

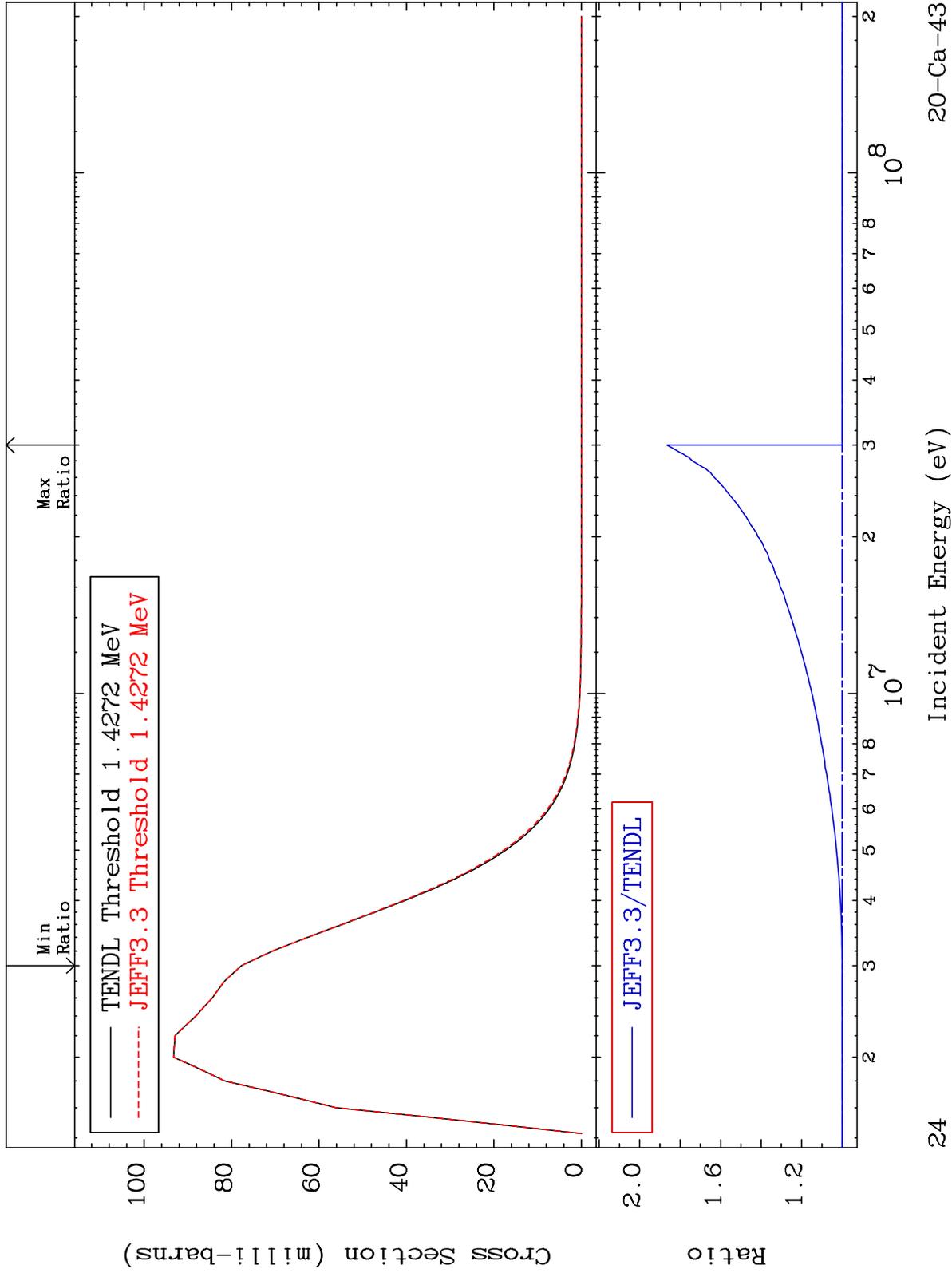
Incident Energy (eV)

20-Ca-43

MAT 2034

MT= 54 (n,n') Level
Cross Section

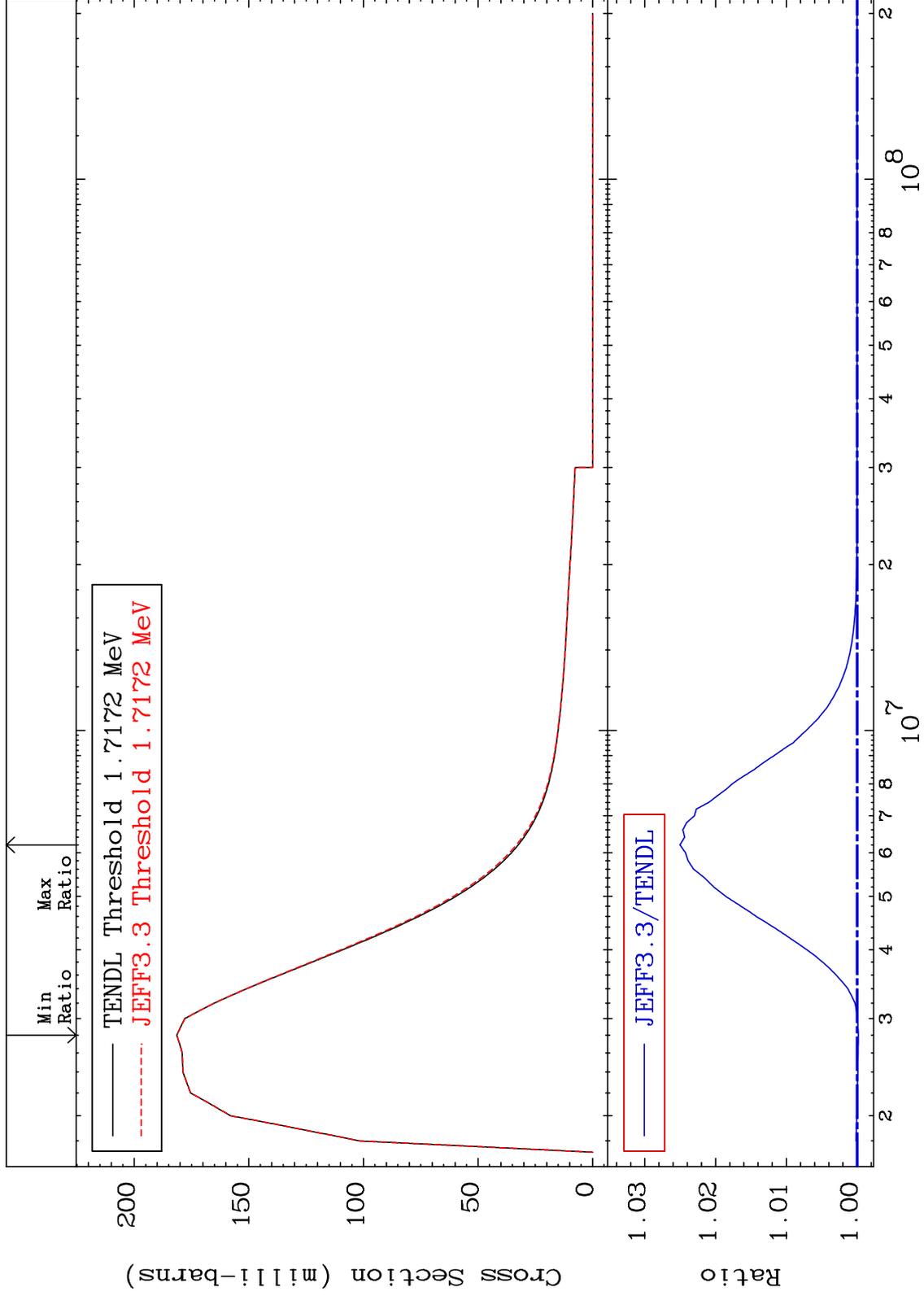
20-Ca-43
-0.008 To 86.47 %



MAT 2034

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

20-Ca-43
-0.018 To 2.504 %



25

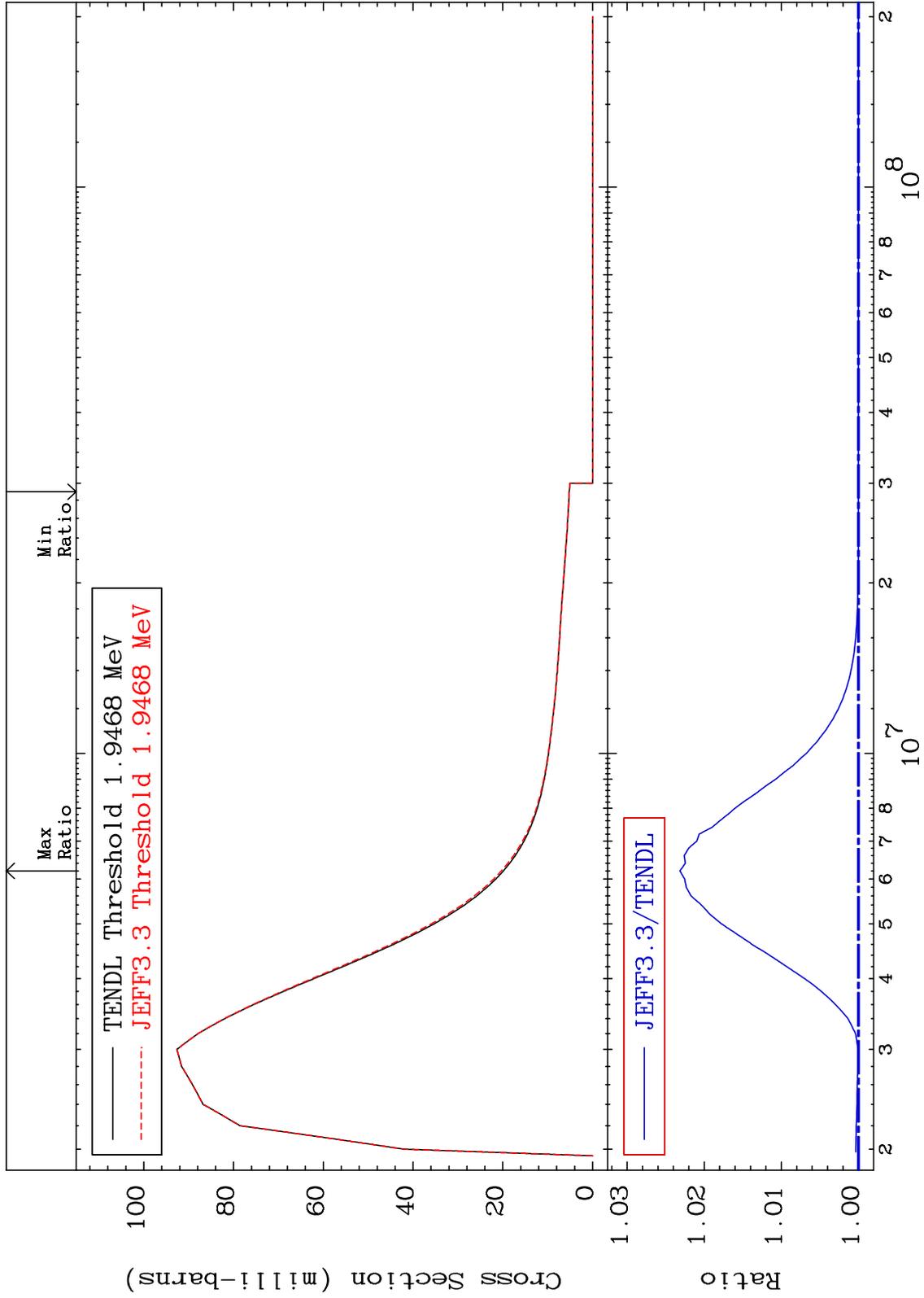
Incident Energy (eV)

20-Ca-43

MAT 2034

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

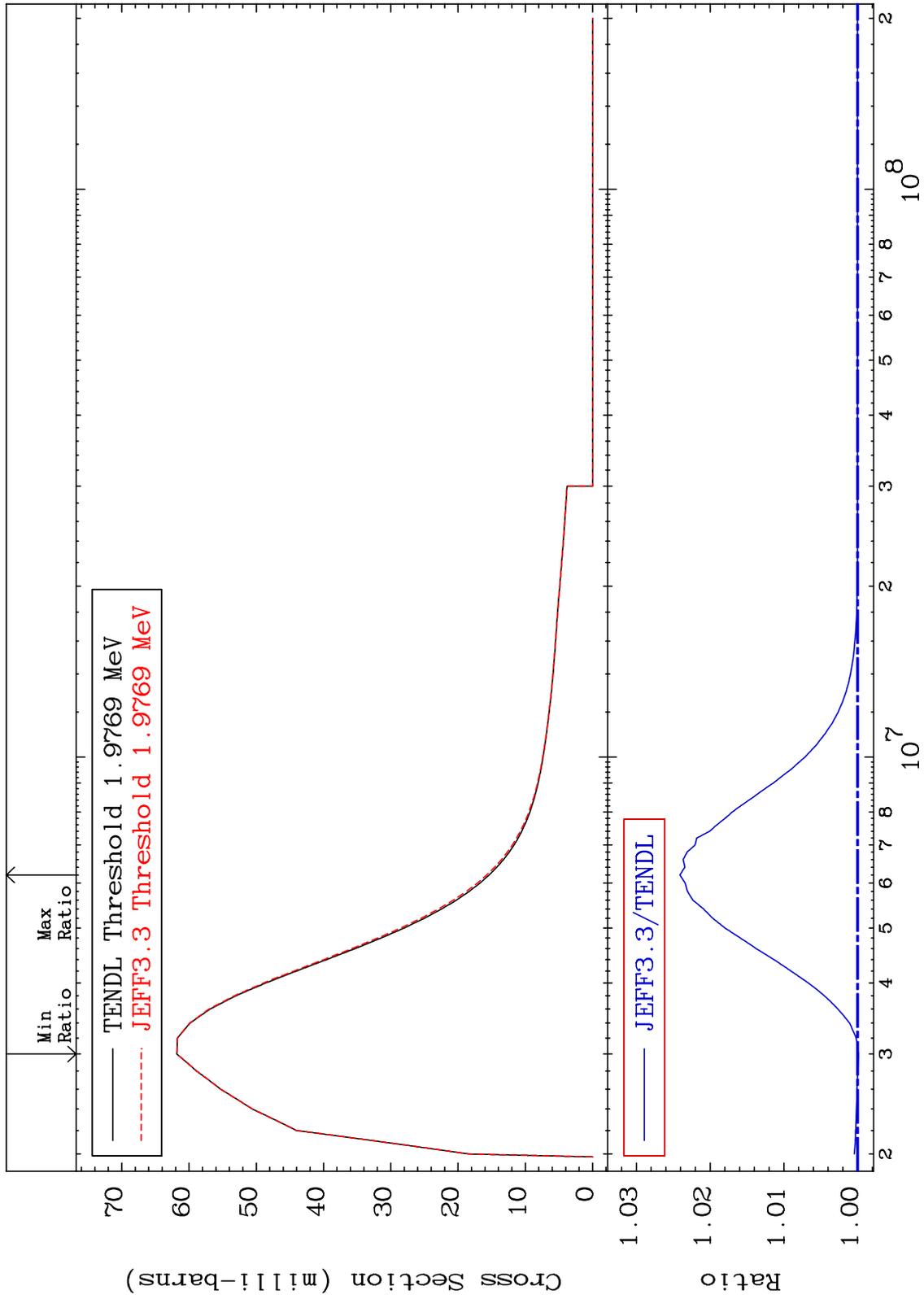
0.000 To 2.315 %
20-Ca-43



MAT 2034

MT= 57 (n,n') Level
Cross Section

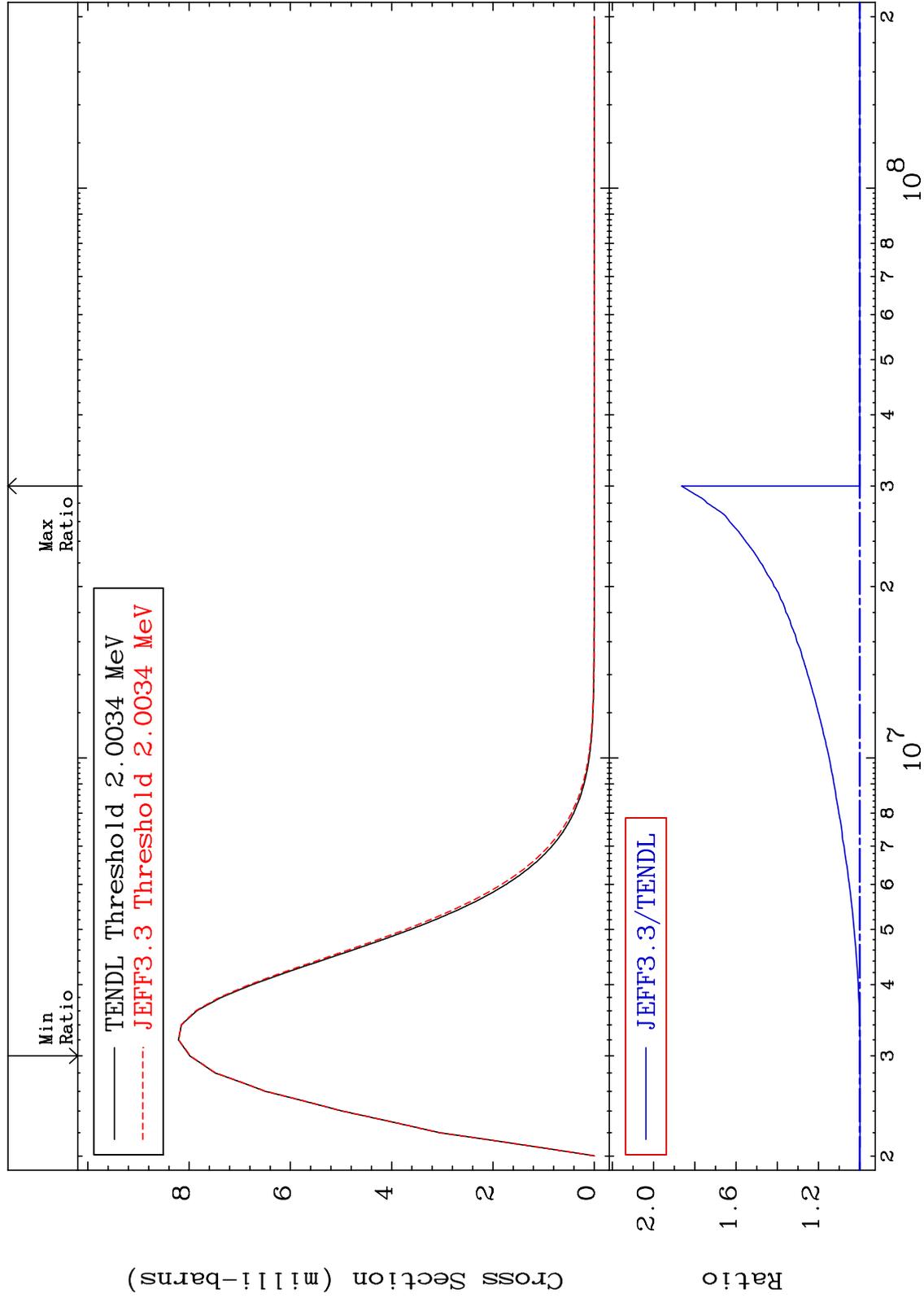
20-Ca-43
-0.011 To 2.409 %



MAT 2034

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

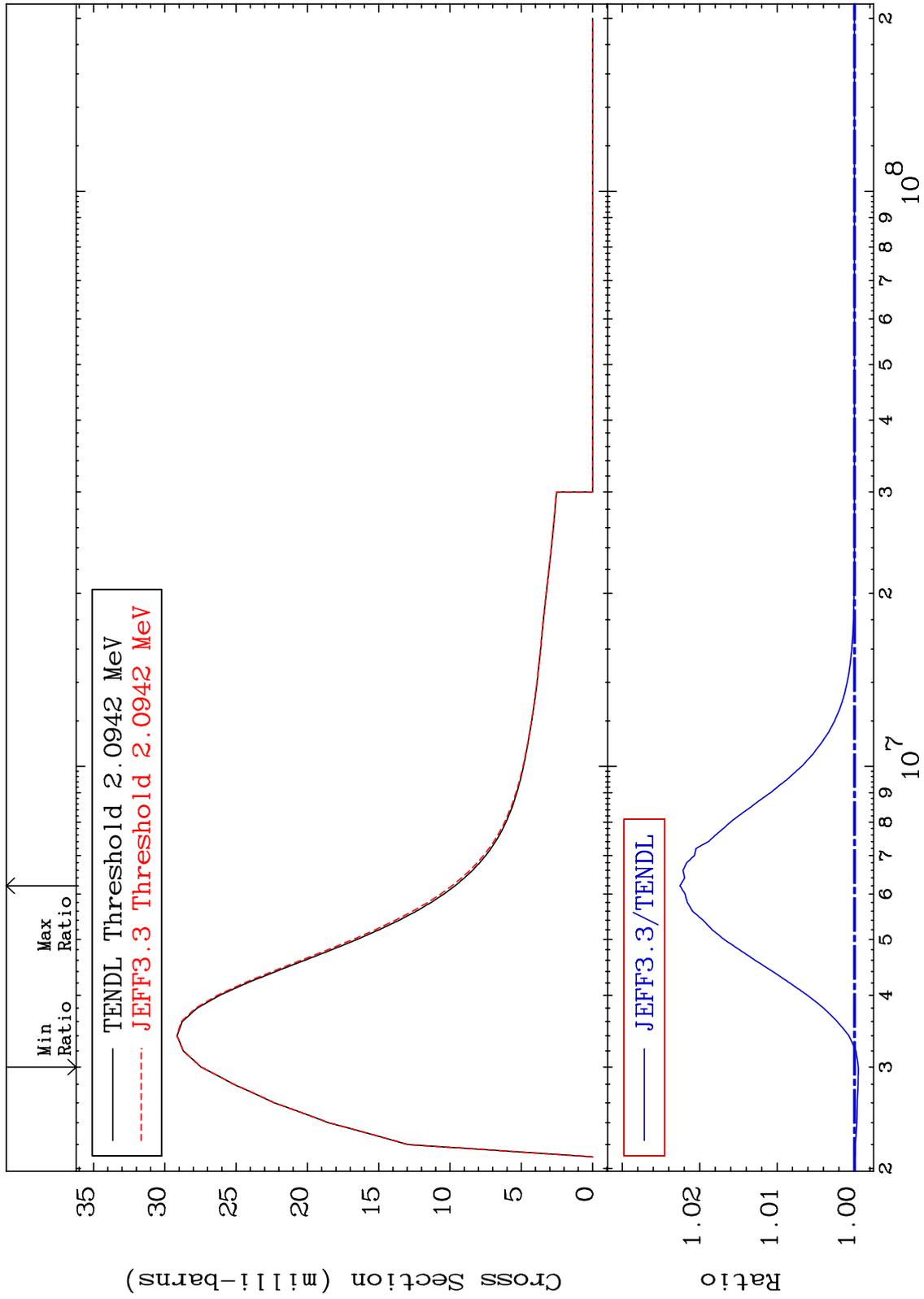
20-Ca-43
-0.114 To 86.45 %



MAT 2034

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

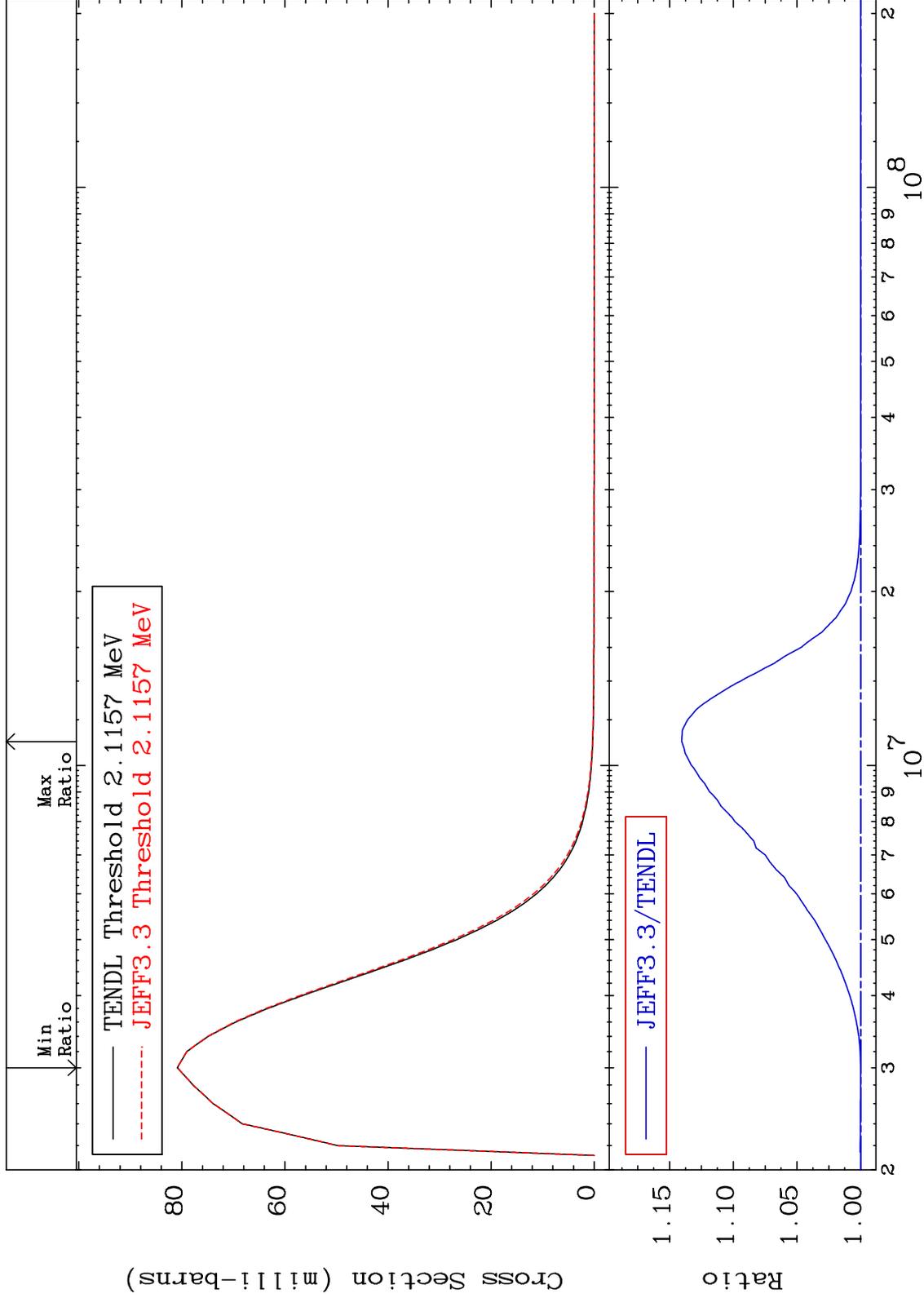
20-Ca-43
-0.051 To 2.255 %



MAT 2034

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

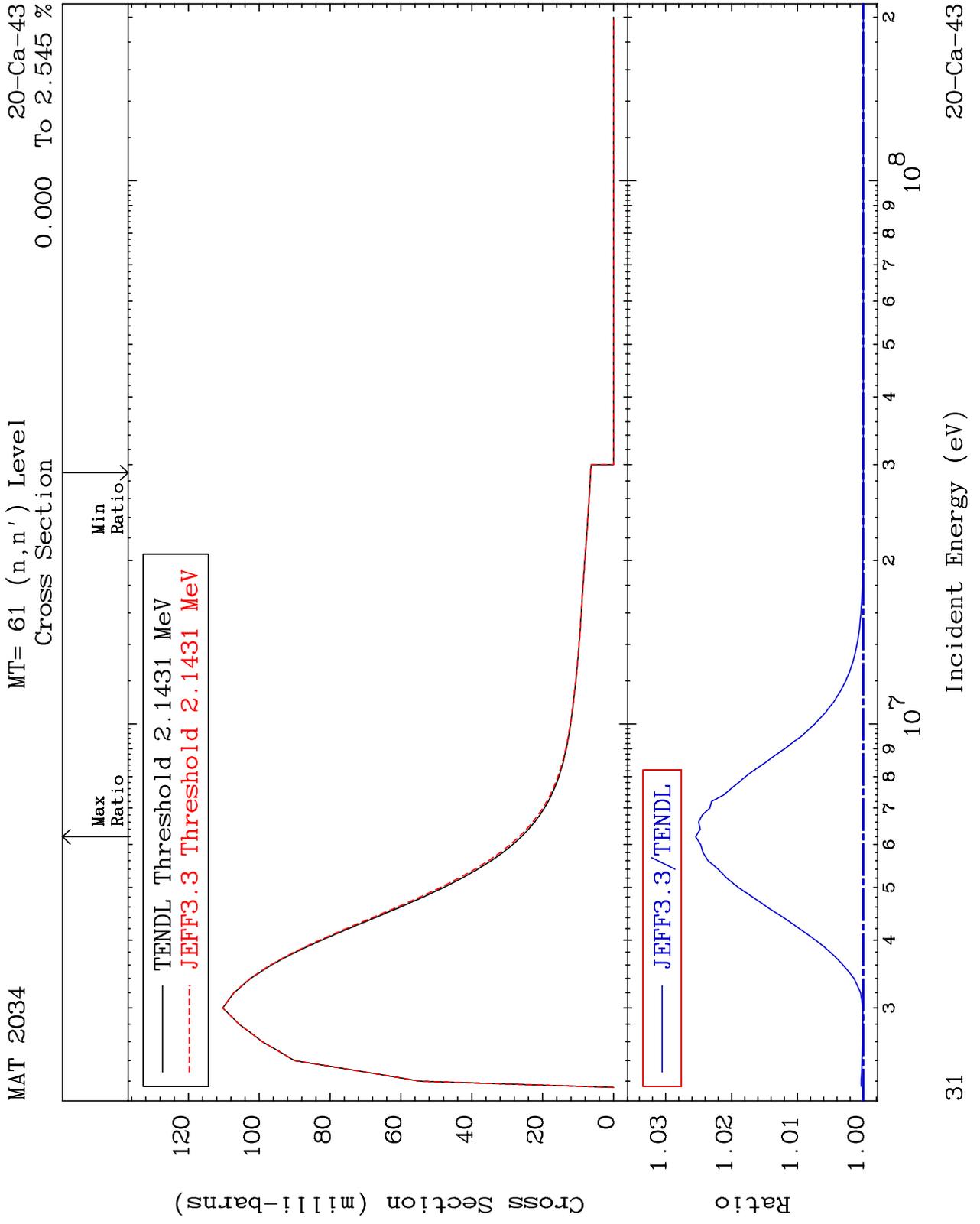
20-Ca-43
-0.001 To 14.05 %



30

Incident Energy (eV)

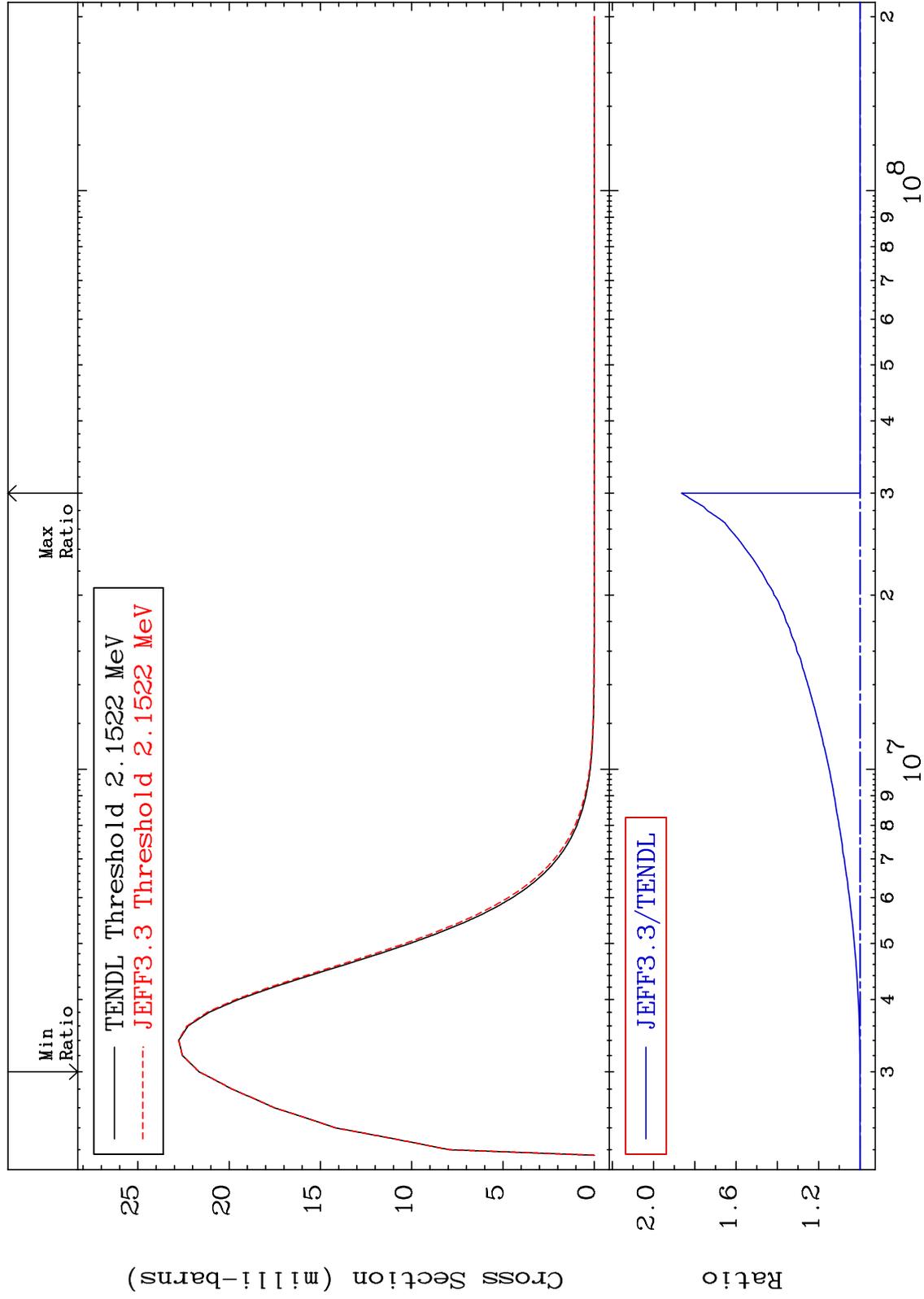
20-Ca-43



MAT 2034

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

20-Ca-43
-0.061 To 86.45 %



32

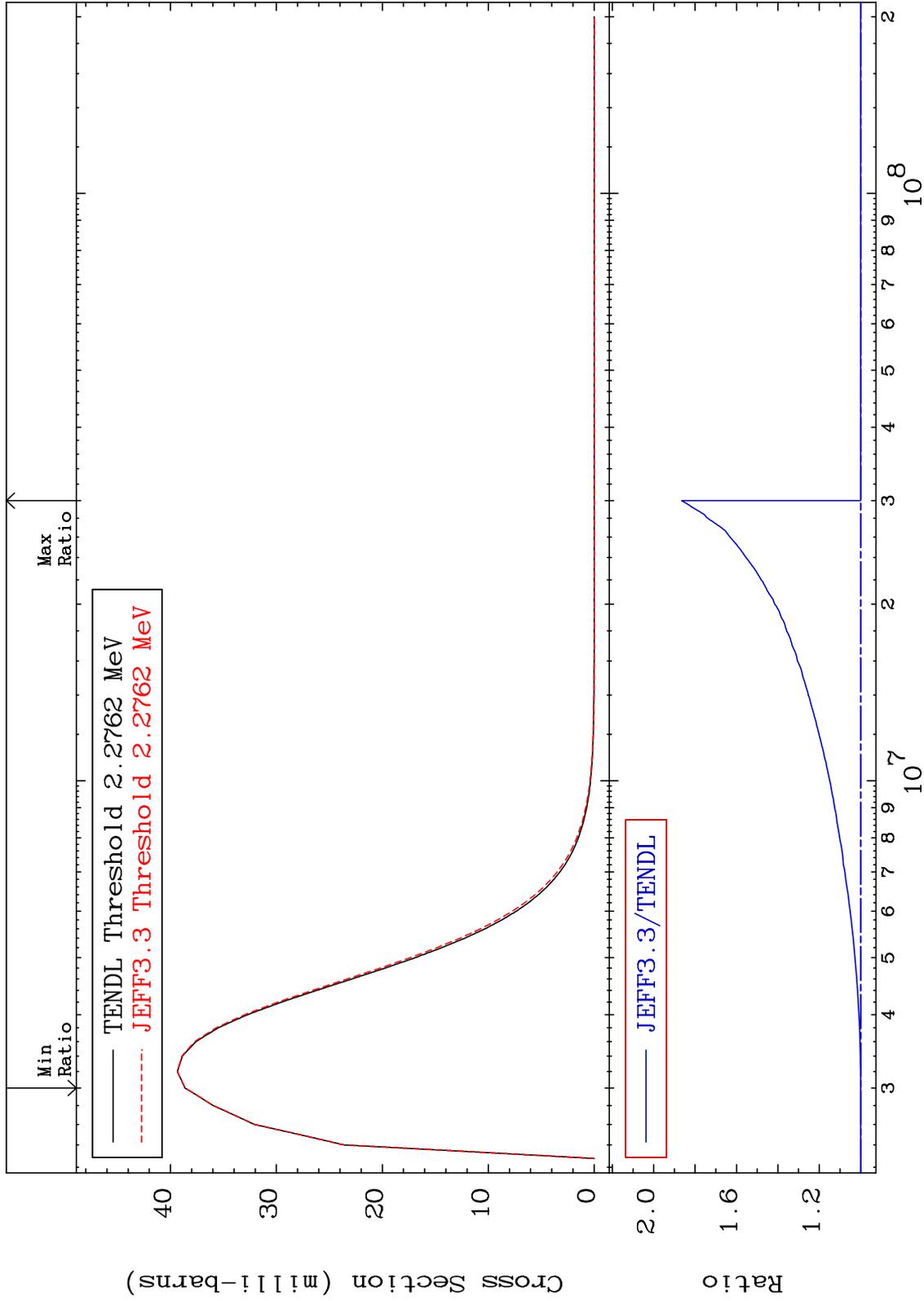
Incident Energy (eV)

20-Ca-43

MAT 2034

MT= 63 (n,n') Level
Cross Section

20-Ca-43
-0.013 To 86.47 %



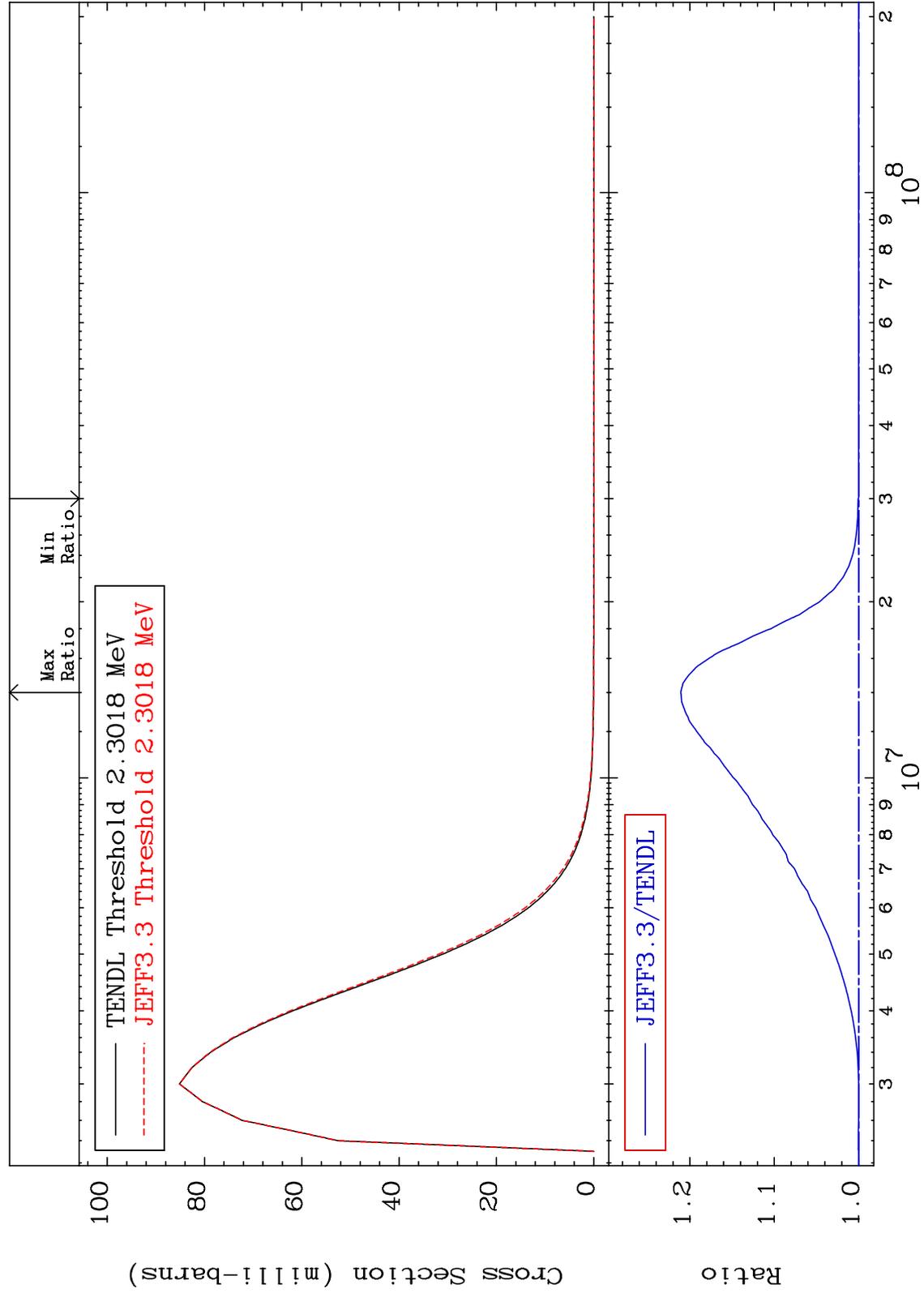
MAT 2034

MT= 64 (n, n') Level

20-Ca-43

0.000 To 21.08 %

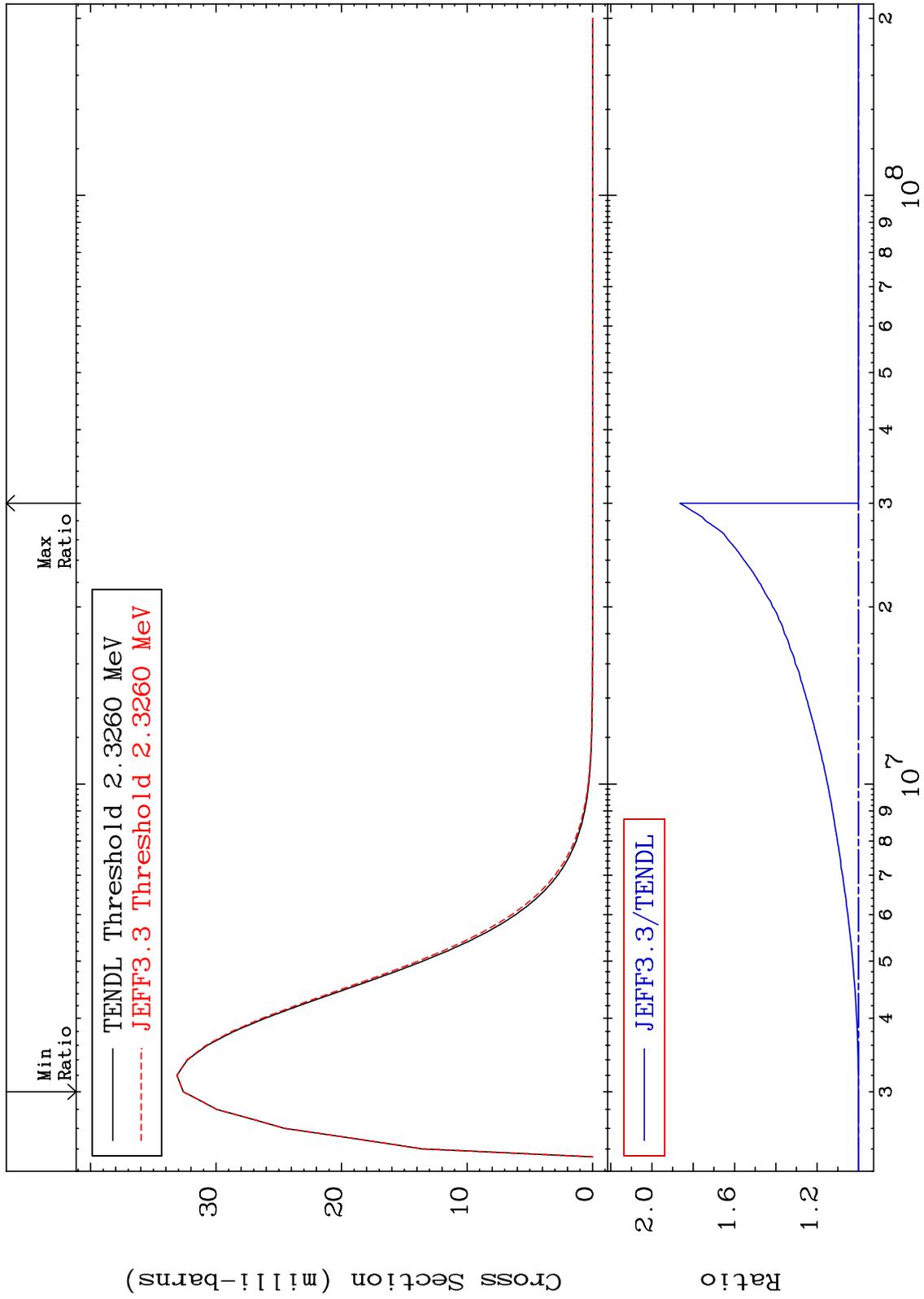
Cross Section



MAT 2034

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

20-Ca-43
-0.013 To 86.47 %



35

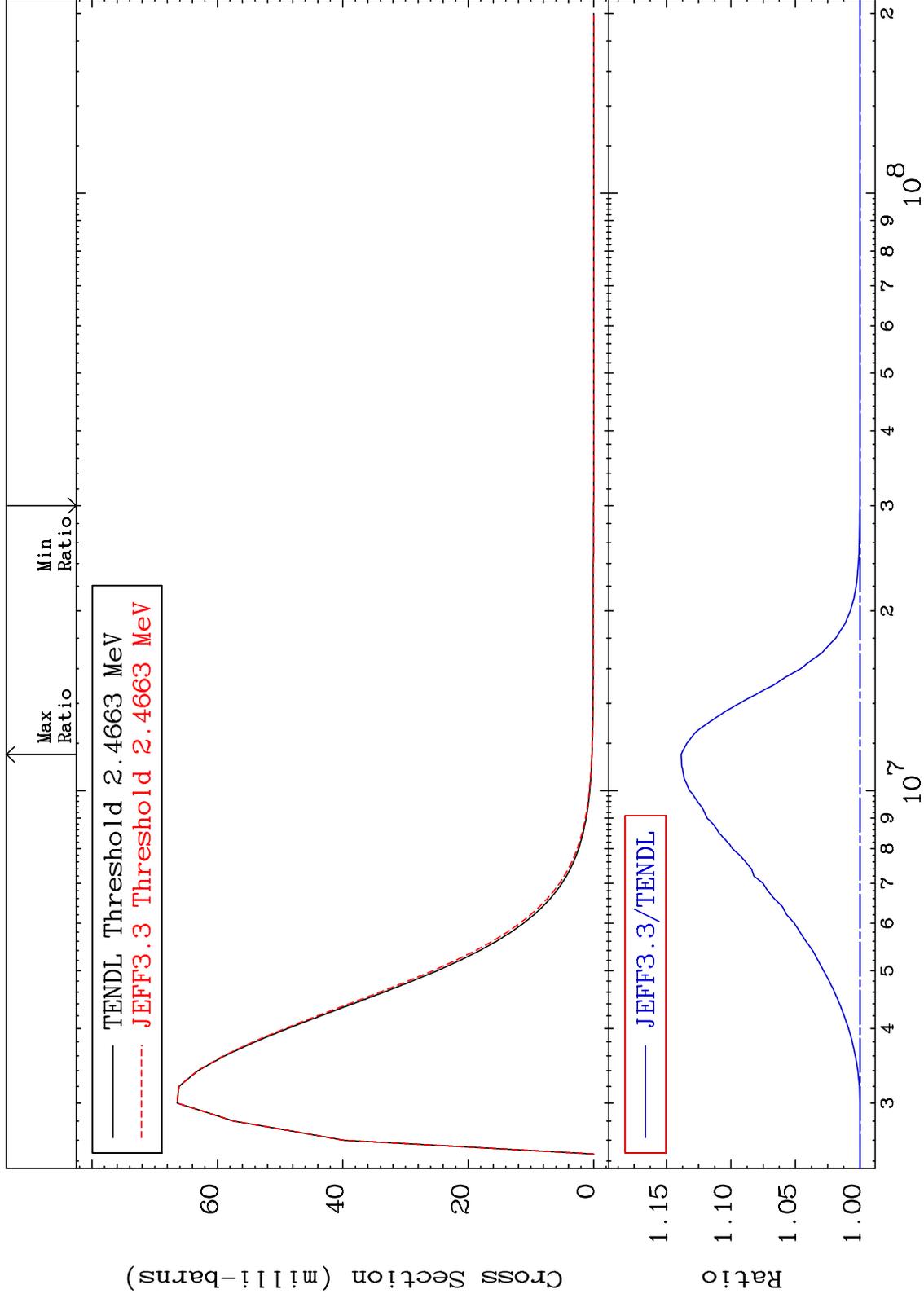
Incident Energy (eV)

20-Ca-43

MAT 2034

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

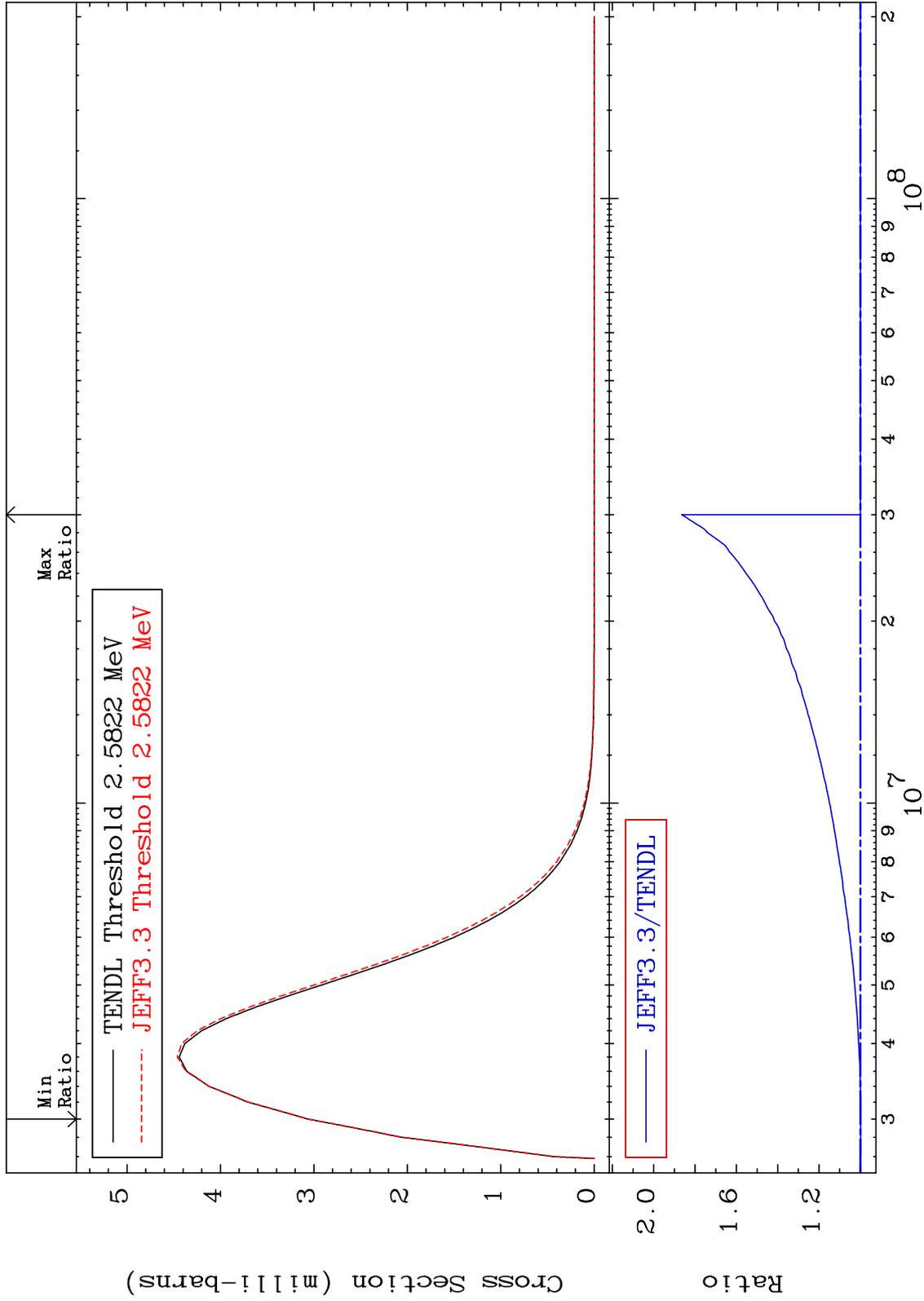
20-Ca-43
0.000 To 13.86 %



MAT 2034

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

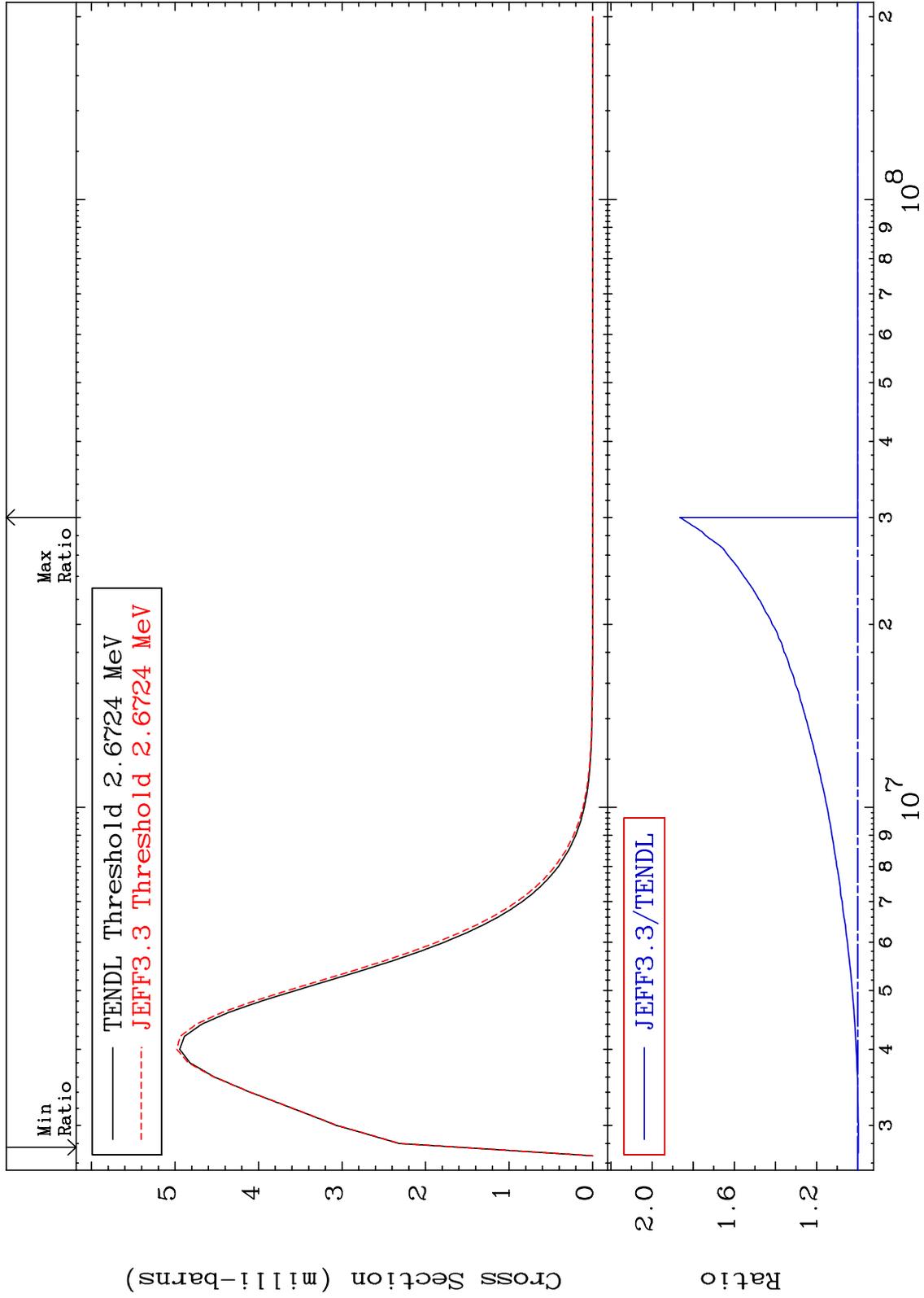
20-Ca-43
-0.157 To 86.45 %



MAT 2034

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

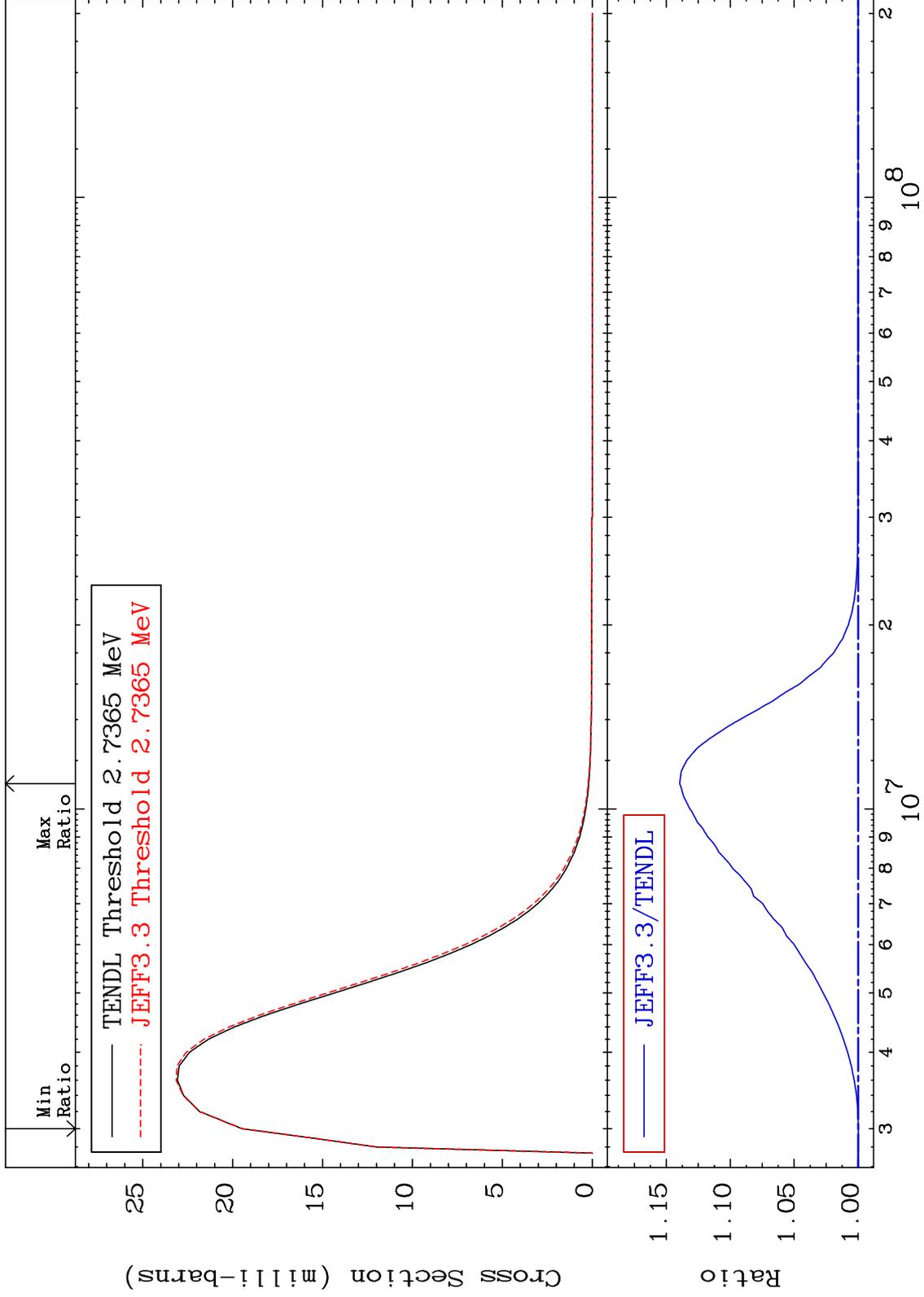
20-Ca-43
-0.334 To 86.44 %



MAT 2034

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

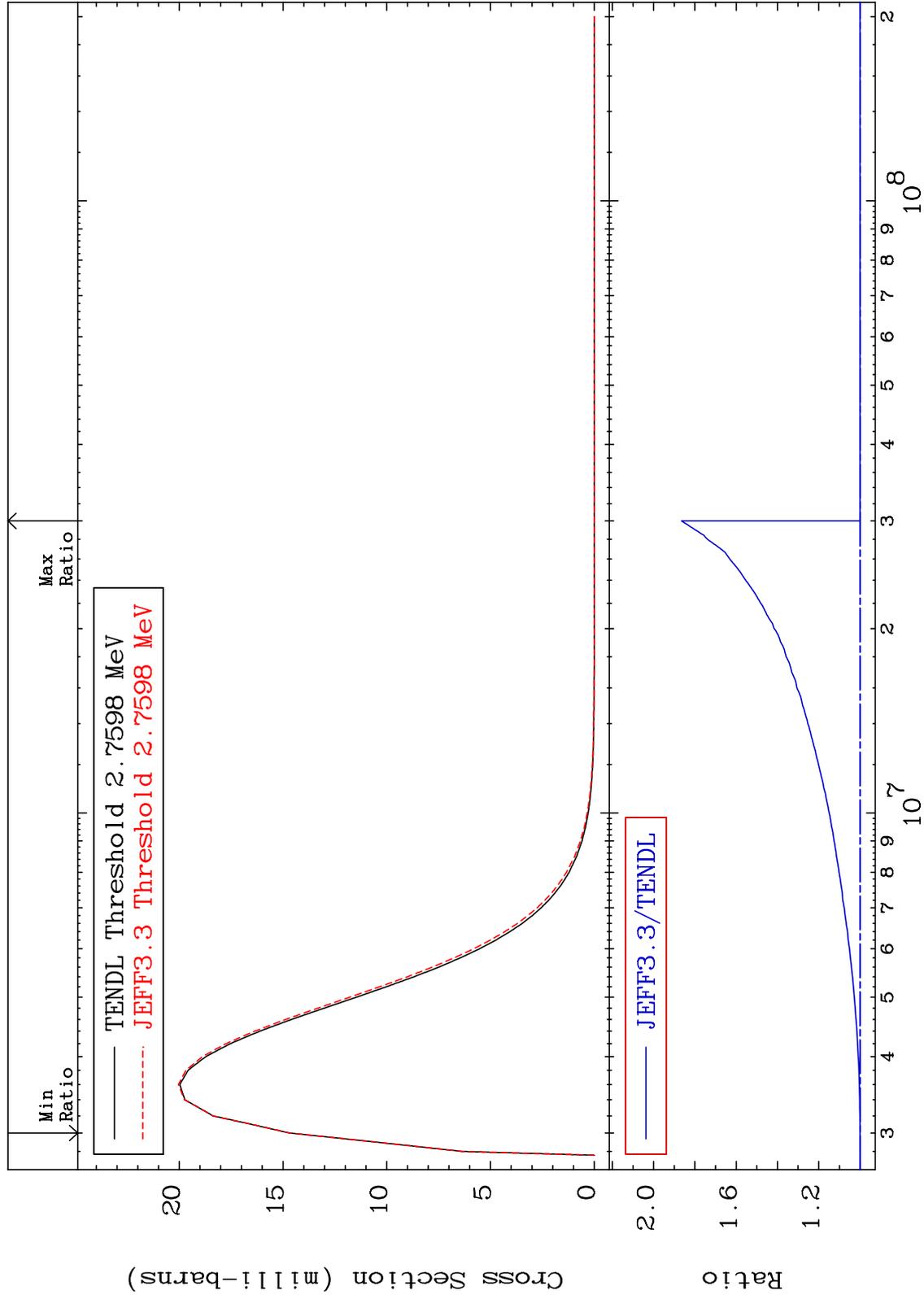
20-Ca-43
-0.018 To 13.95 %



MAT 2034

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

20-Ca-43
-0.010 To 86.47 %



40

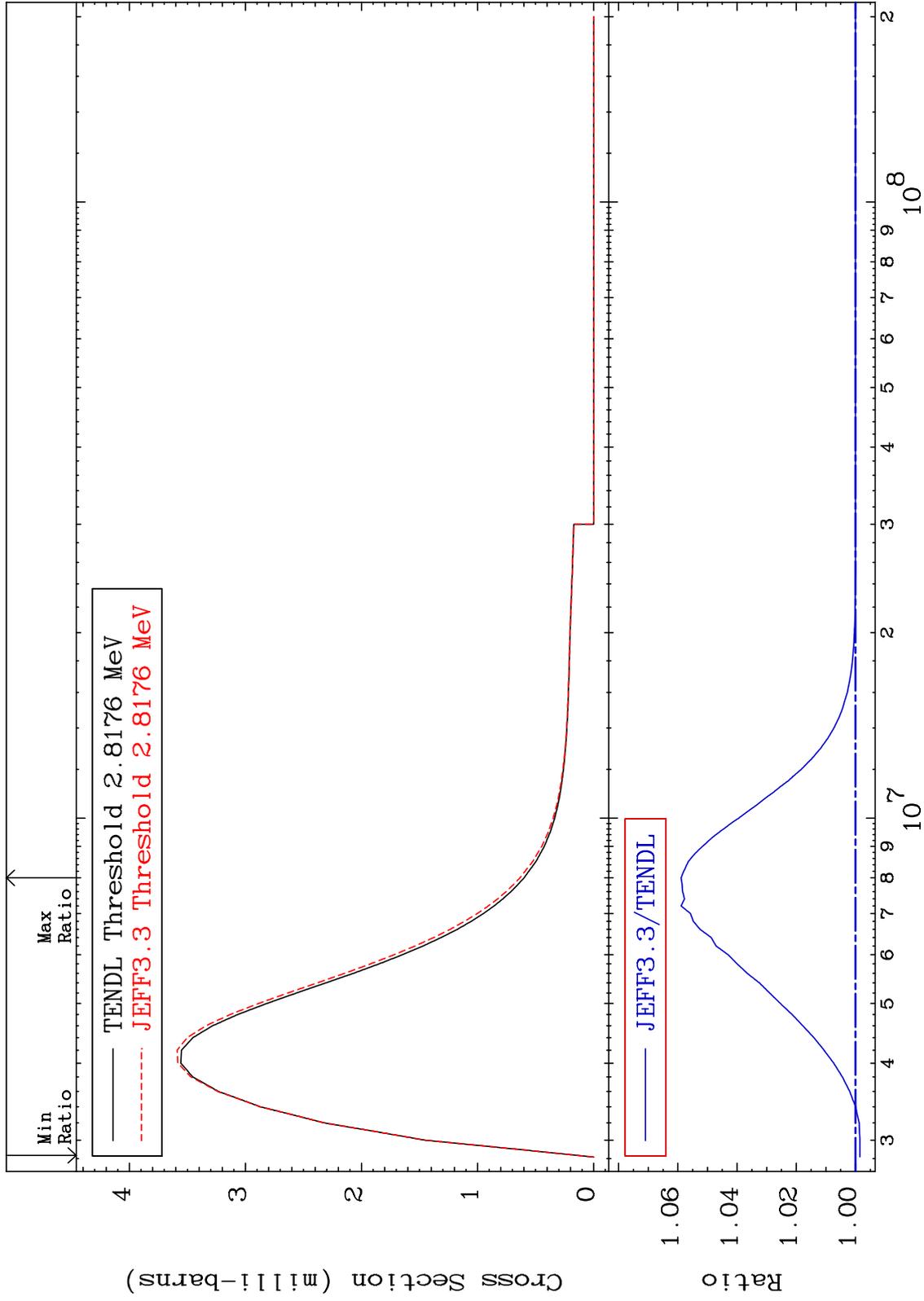
Incident Energy (eV)

20-Ca-43

MAT 2034

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

20-Ca-43
-0.150 To 5.889 %



41

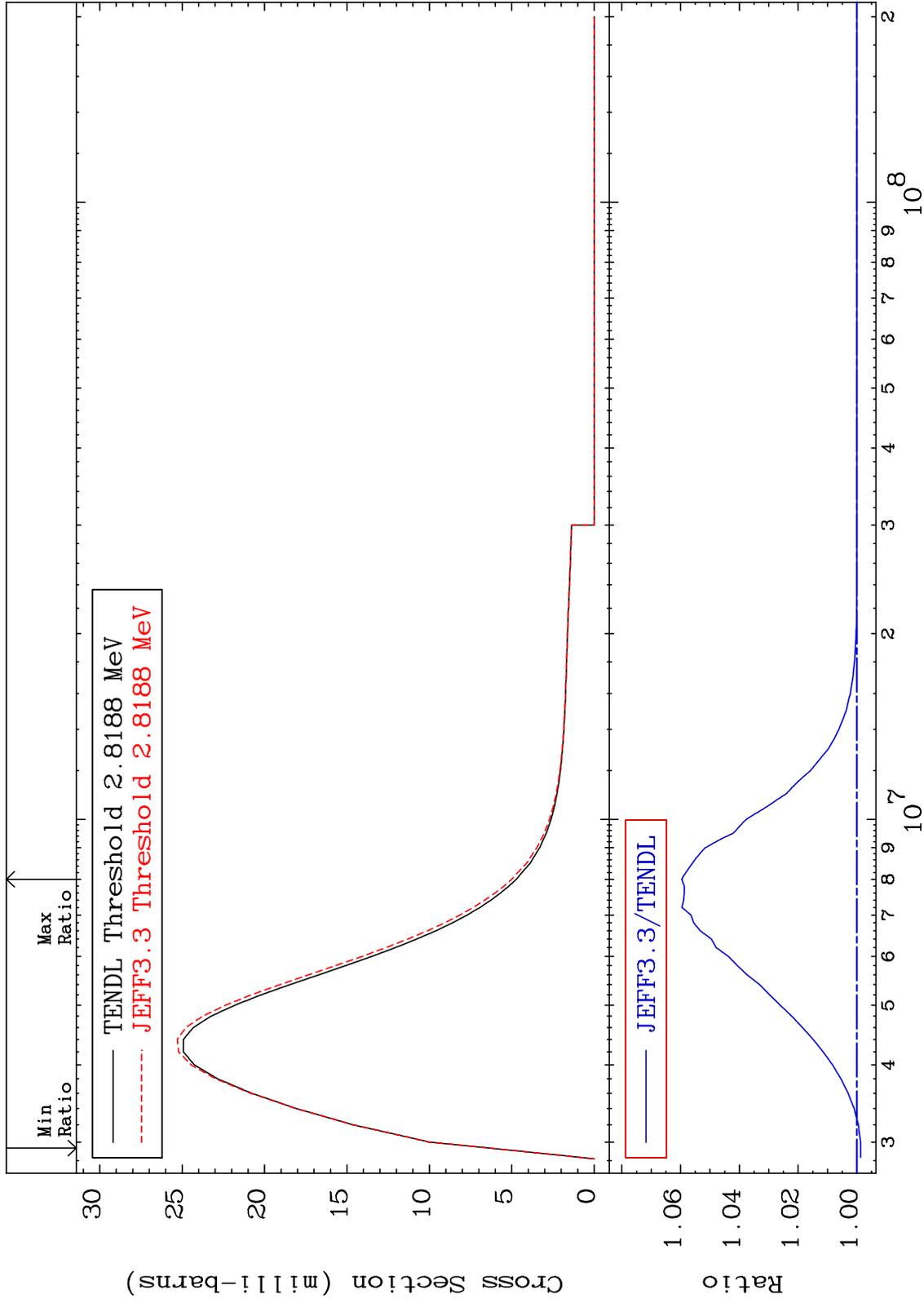
Incident Energy (eV)

20-Ca-43

MAT 2034

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

20-Ca-43
-0.127 To 5.961 %



42

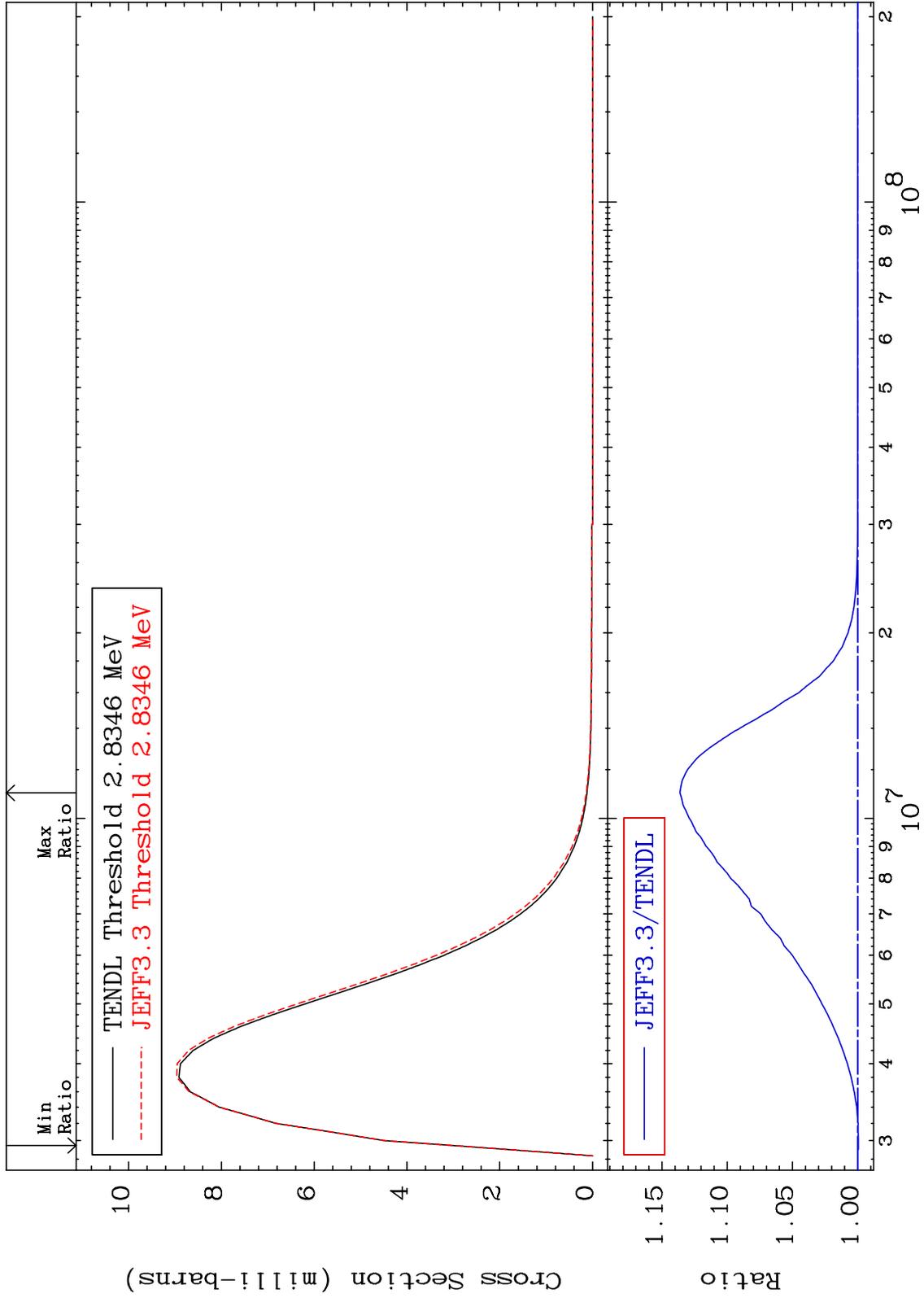
Incident Energy (eV)

20-Ca-43

MAT 2034

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

20-Ca-43
-0.050 To 13.62 %



43

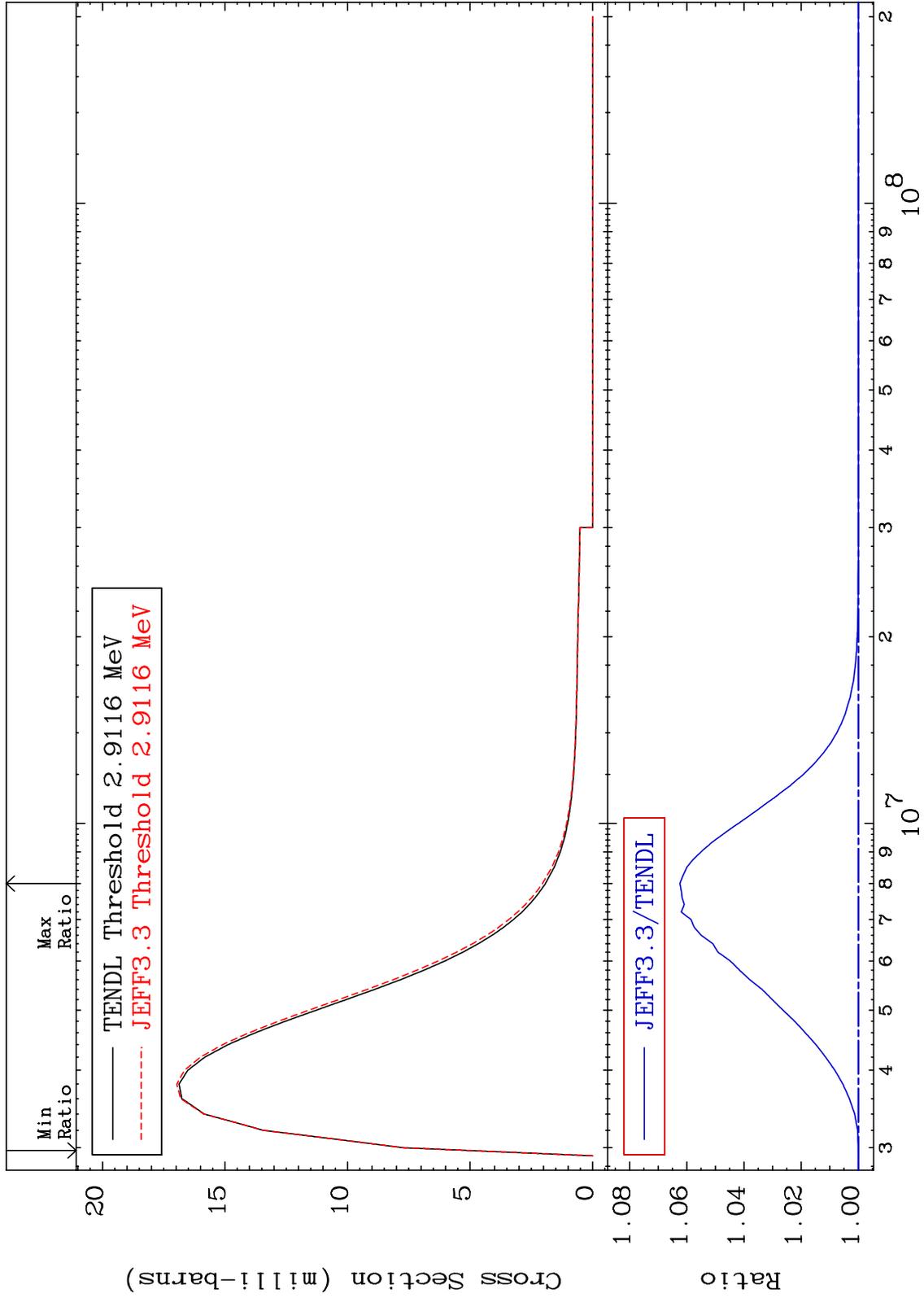
Incident Energy (eV)

20-Ca-43

MAT 2034

MT= 74 (n,n') Level
Cross Section

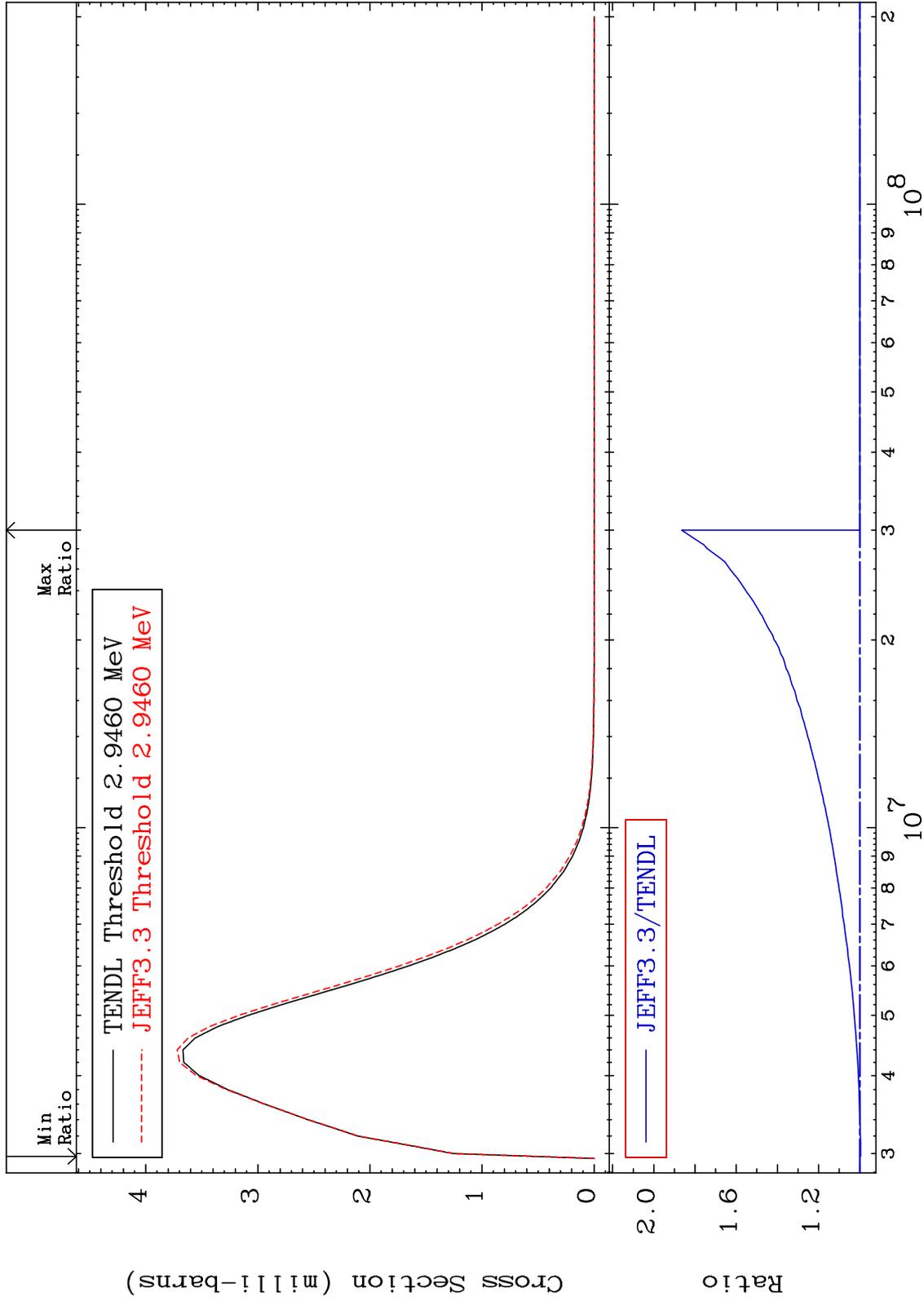
20-Ca-43
-0.003 To 6.240 %



MAT 2034

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

20-Ca-43
-0.416 To 86.44 %



45

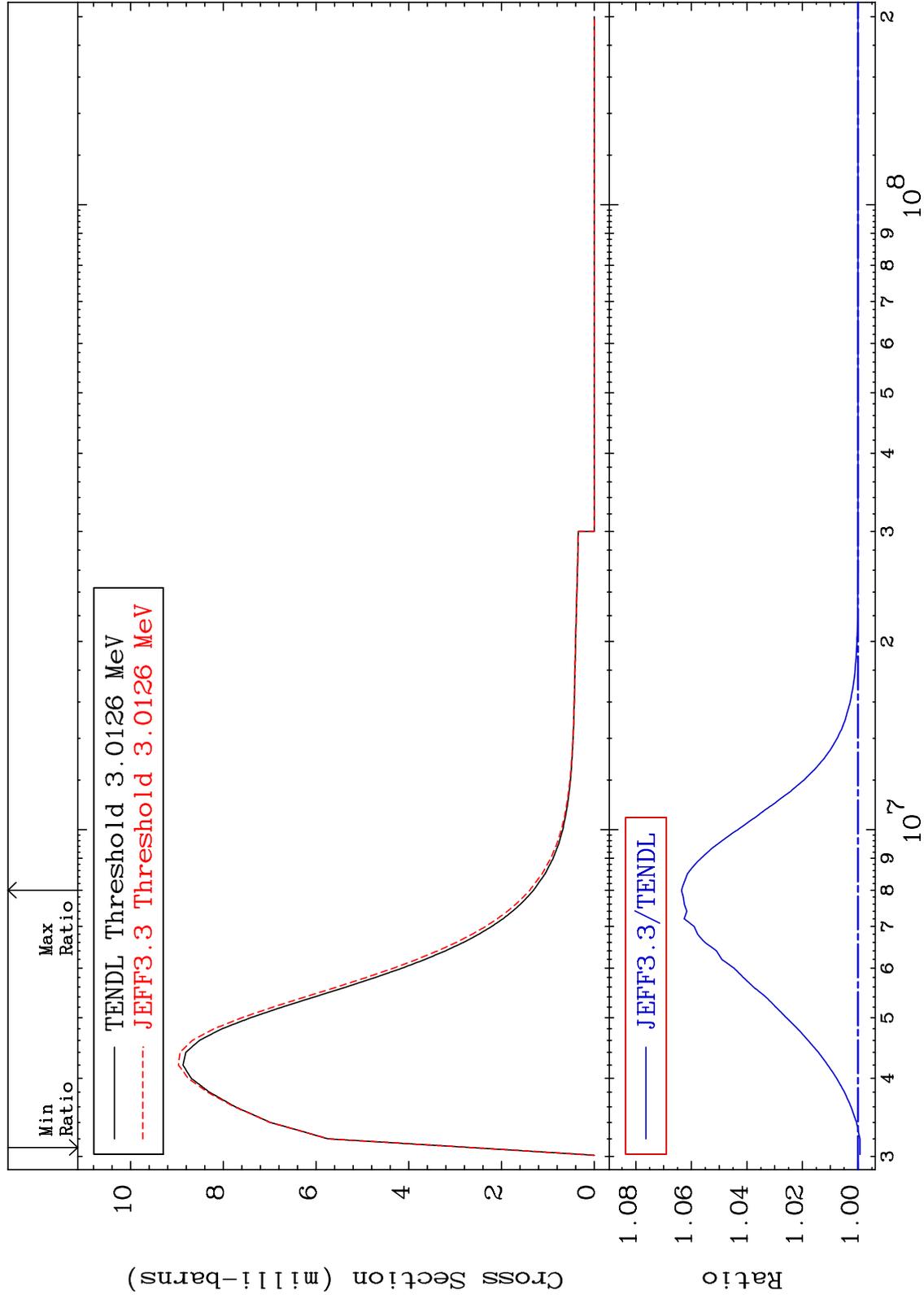
Incident Energy (eV)

20-Ca-43

MAT 2034

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

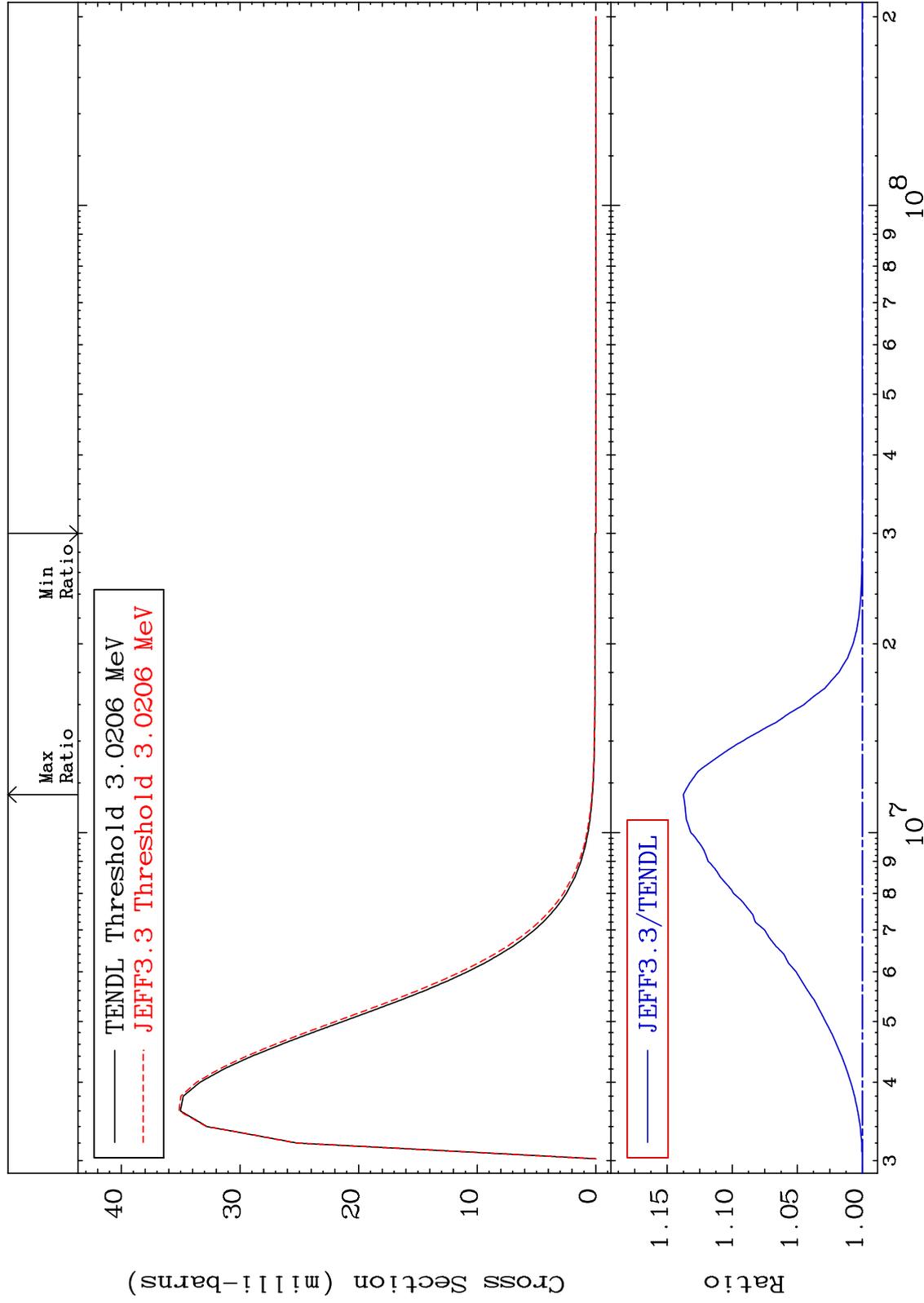
20-Ca-43
-0.073 To 6.354 %



MAT 2034

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

20-Ca-43
0.000 To 13.76 %



47

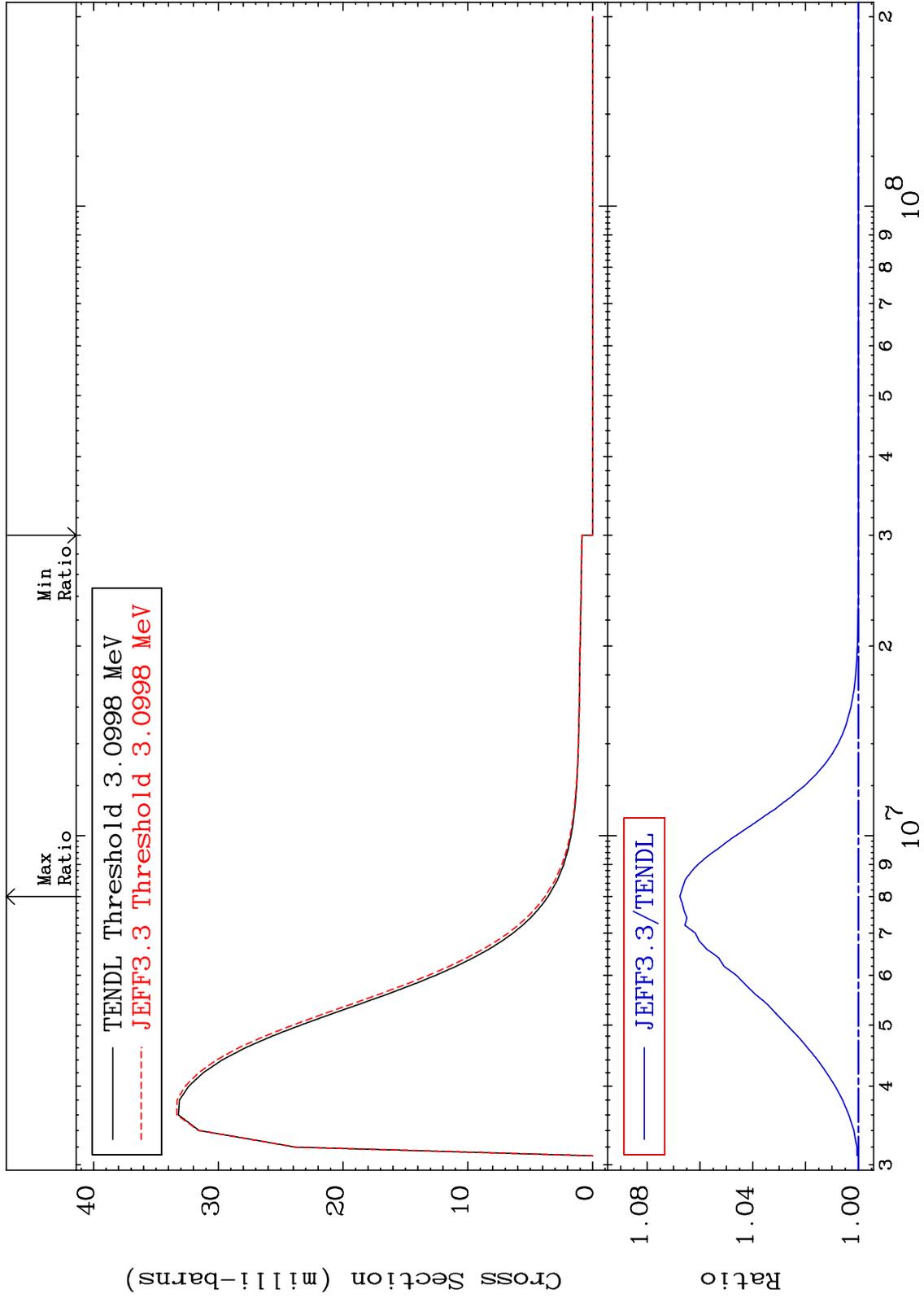
Incident Energy (eV)

20-Ca-43

MAT 2034

MT= 78 (n, n') Level
Cross Section

0.000 To 6.758 %
20-Ca-43



48

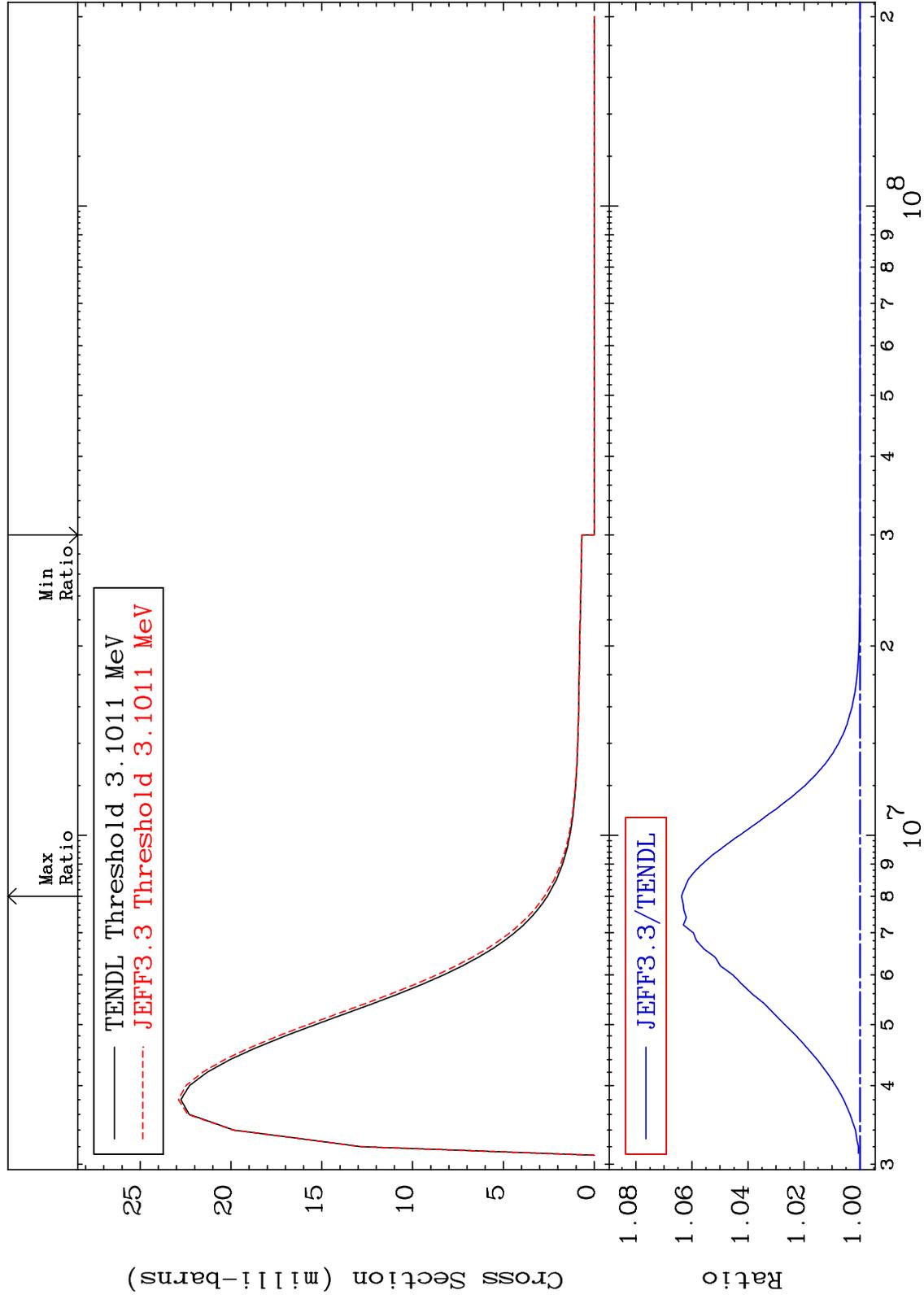
Incident Energy (eV)

20-Ca-43

MAT 2034

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

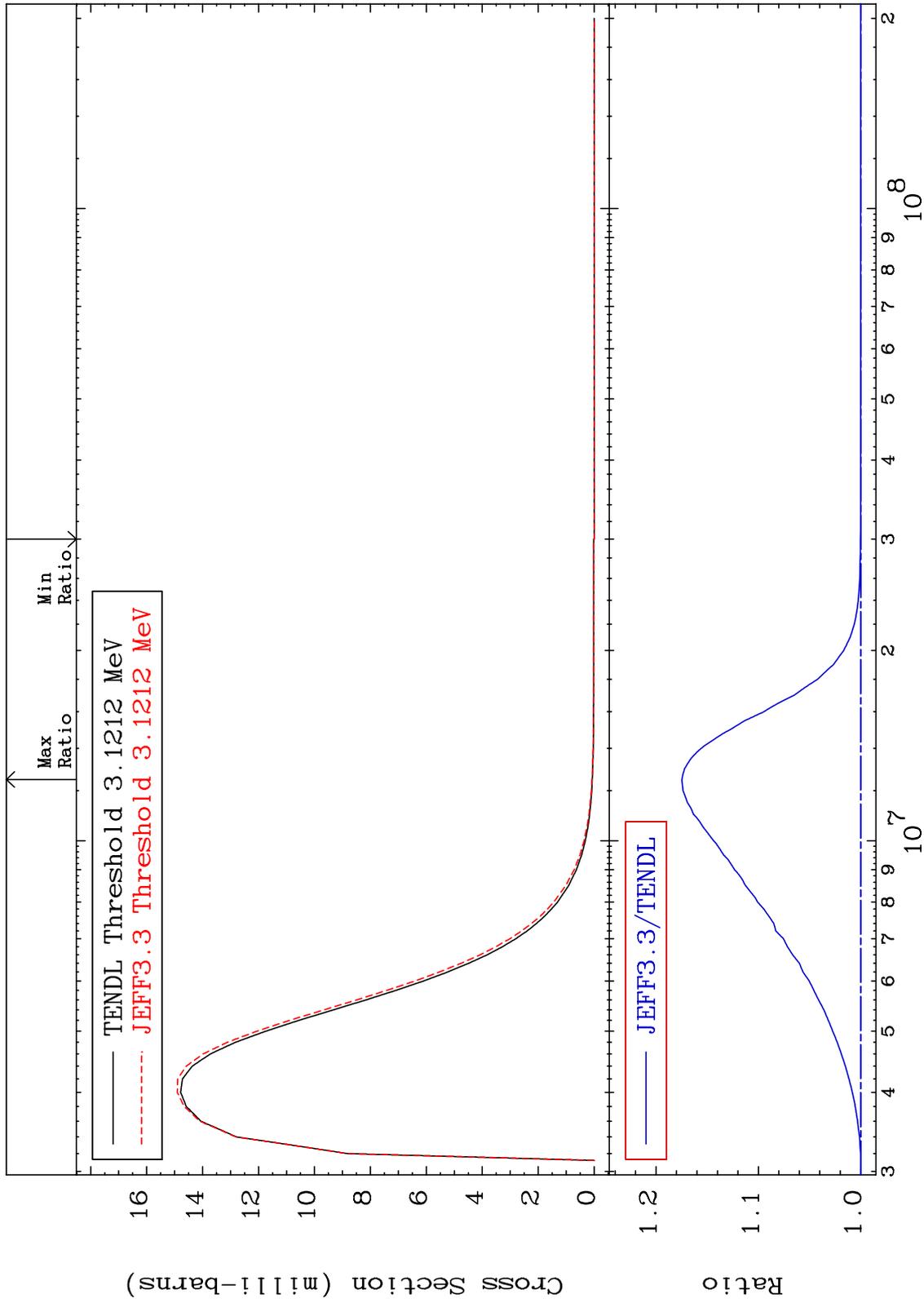
0.000 To 6.372 %
20-Ca-43



MAT 2034

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

0.000 To 17.49 %
20-Ca-43



50

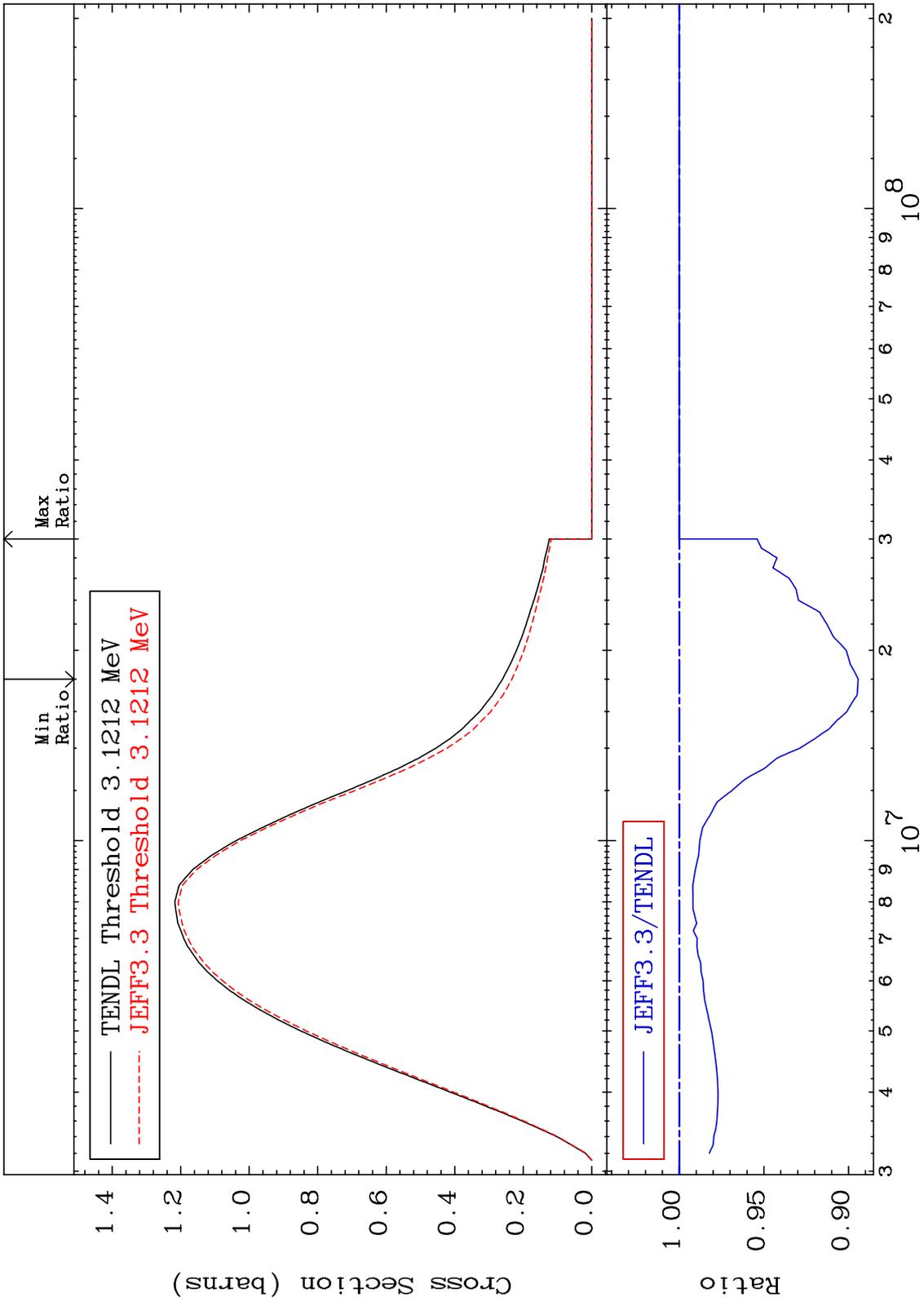
Incident Energy (eV)

20-Ca-43

MAT 2034

(n, n') Continuum
Cross Section

20-Ca-43
-10.57 To 0.000 %



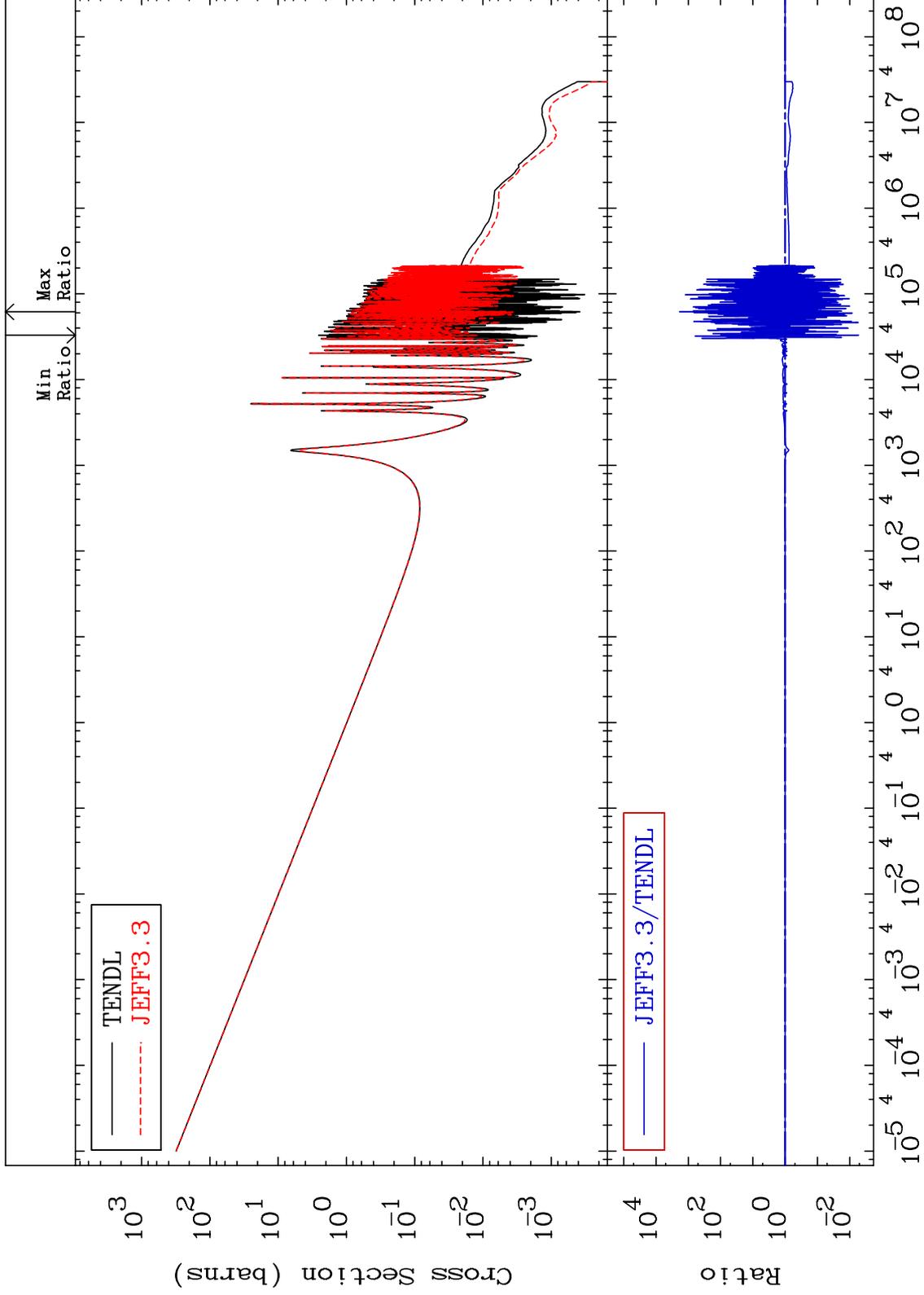
MAT 2034

(n, γ)

20-Ca-43

Cross Section

-99.46 To 9999. %



52

Incident Energy (eV)

20-Ca-43

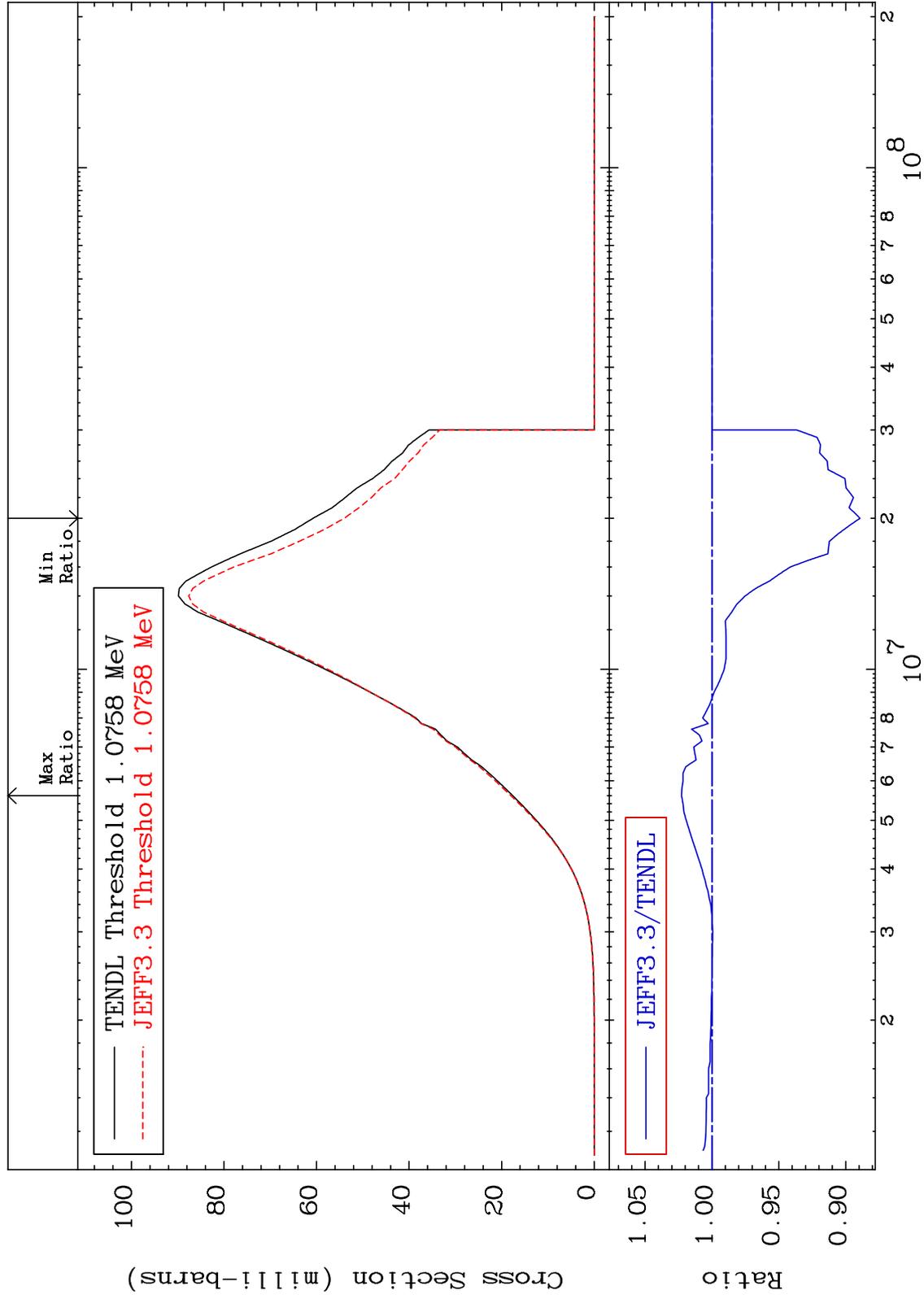
MAT 2034

(n, p)

20-Ca-43

Cross Section

-11.07 To 2.273 %



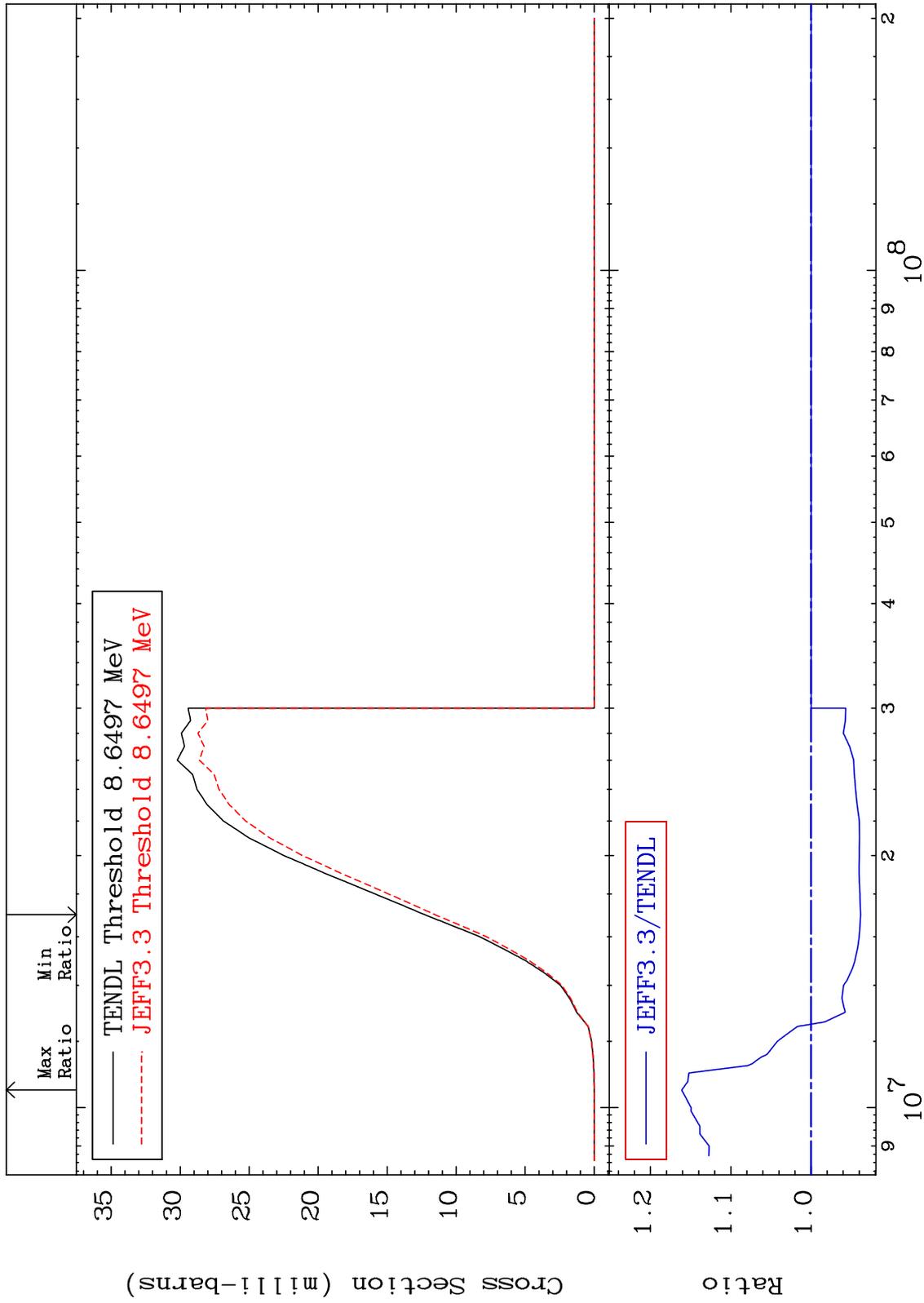
MAT 2034

(n, d)

²⁰Ca-43

Cross Section

-6.174 To 16.11 %



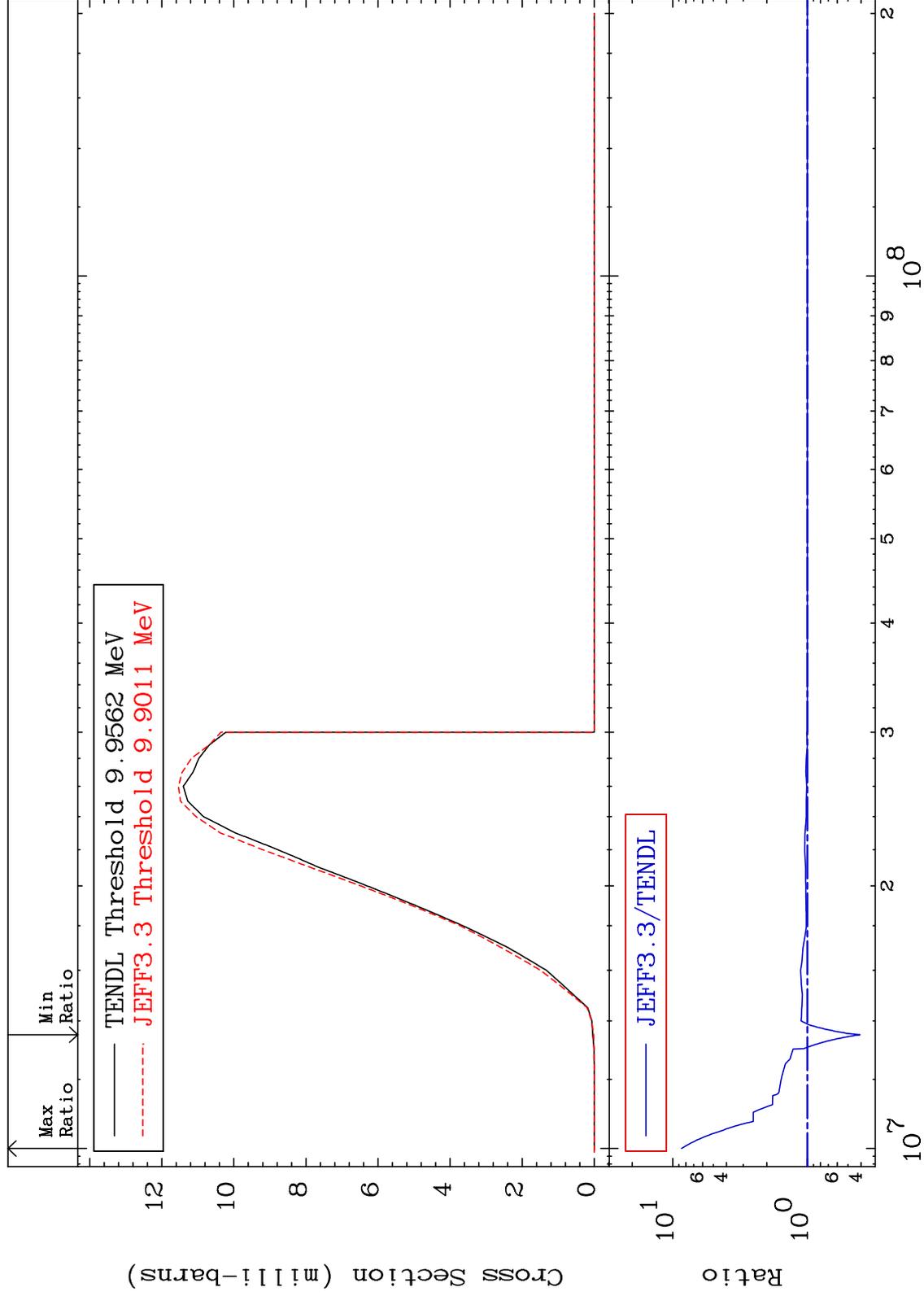
MAT 2034

(n, t)

20-Ca-43

Cross Section

-59.31 To 760.7 %



55

Incident Energy (eV)

20-Ca-43

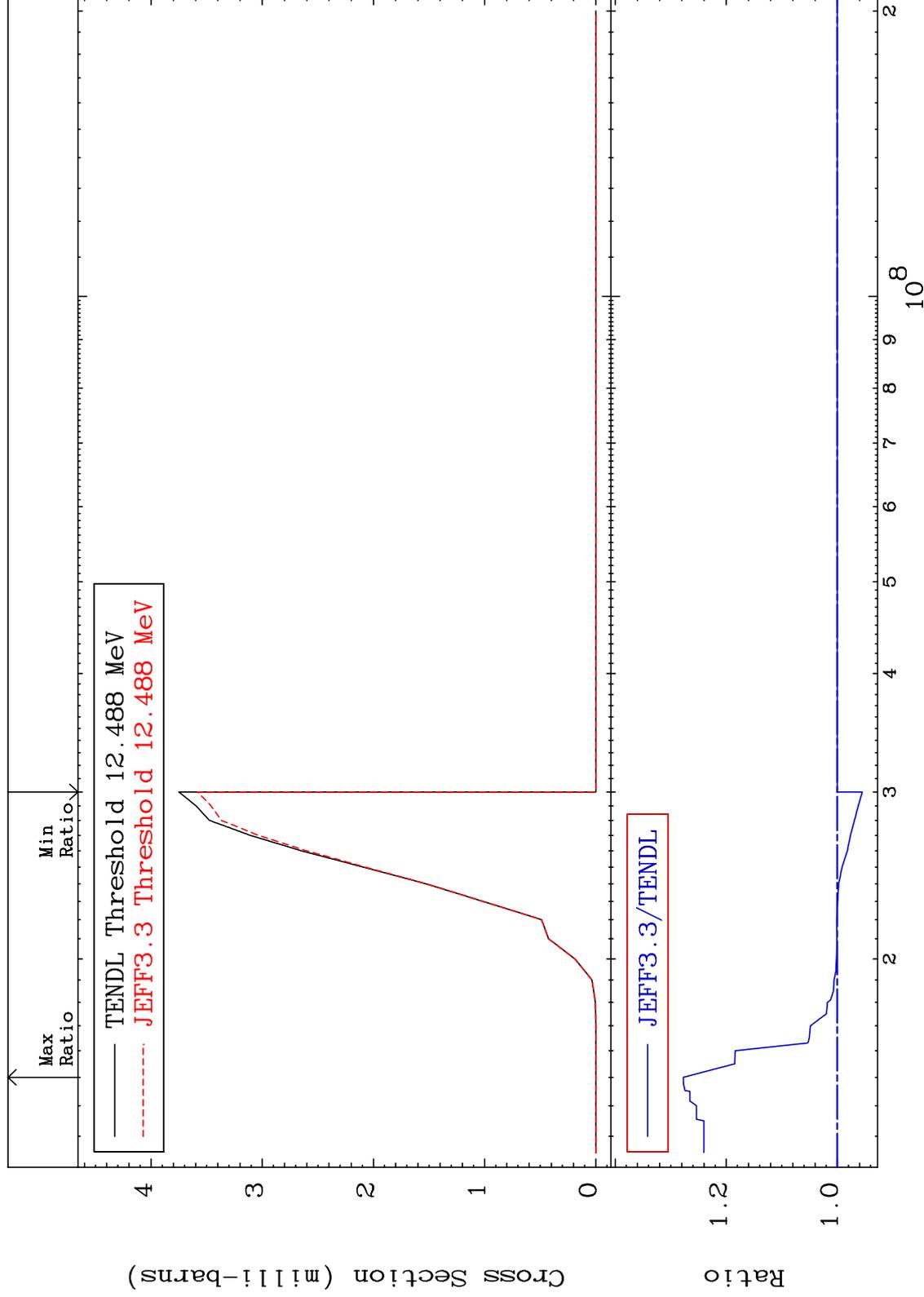
MAT 2034

(n, He-3)

20-Ca-43

Cross Section

-4.495 To 27.72 %



56

20-Ca-43

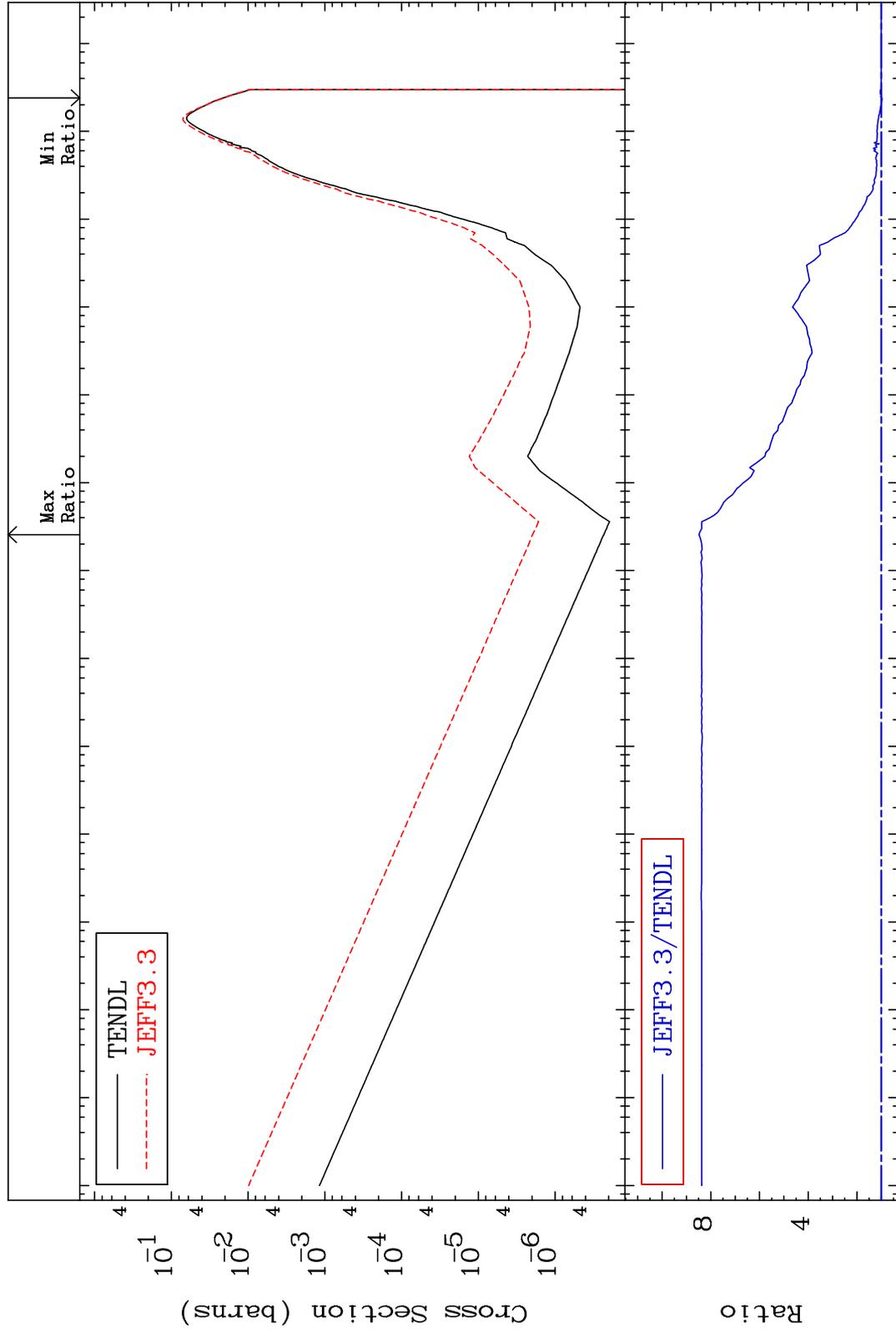
MAT 2034

(n, α)

20-Ca-43

Cross Section

-3.478 To 748.2 %



Incident Energy (eV)

57

20-Ca-43

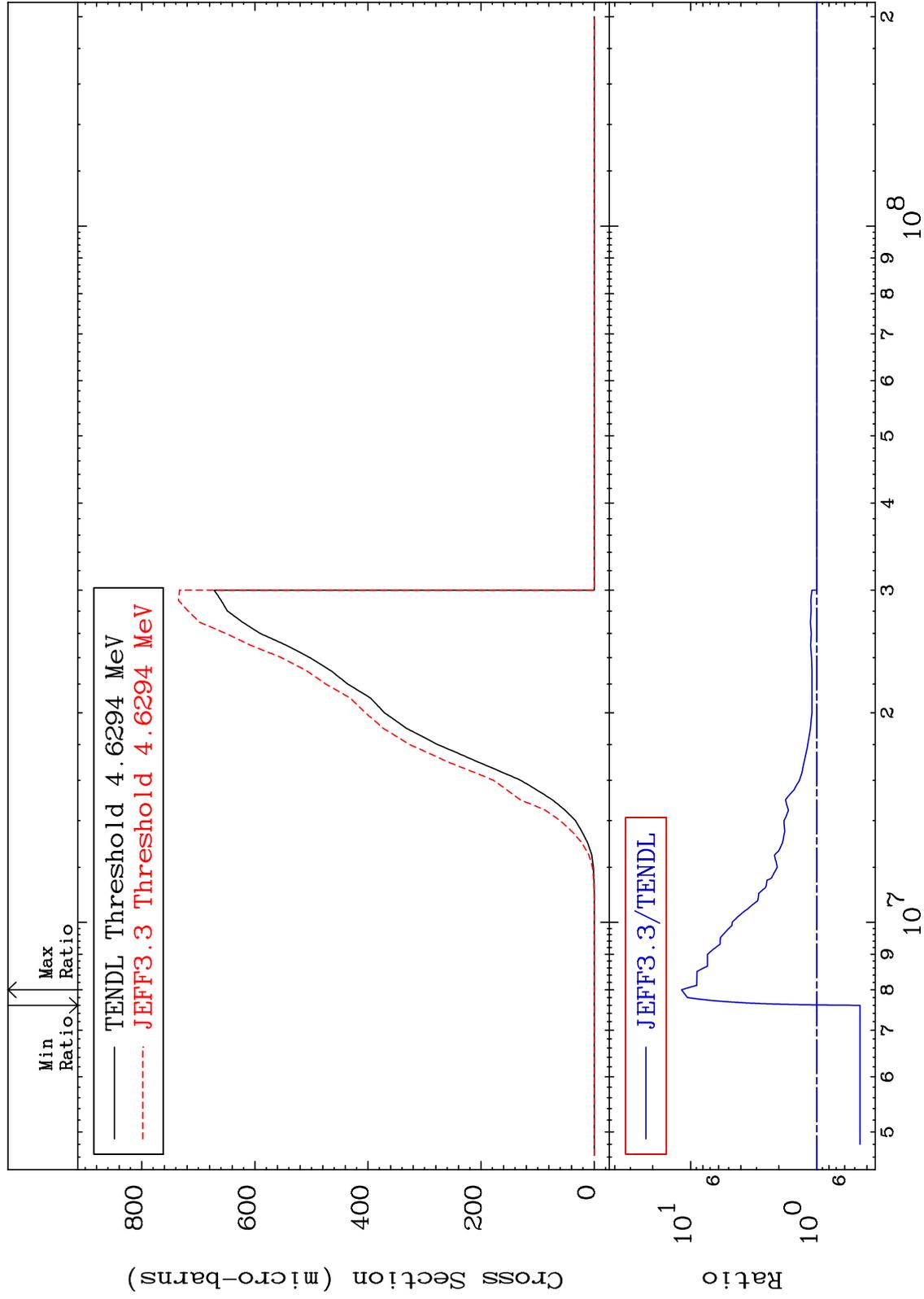
MAT 2034

(n, 2α)

20-Ca-43

Cross Section

-54.65 To 1081. %



58

Incident Energy (eV)

20-Ca-43

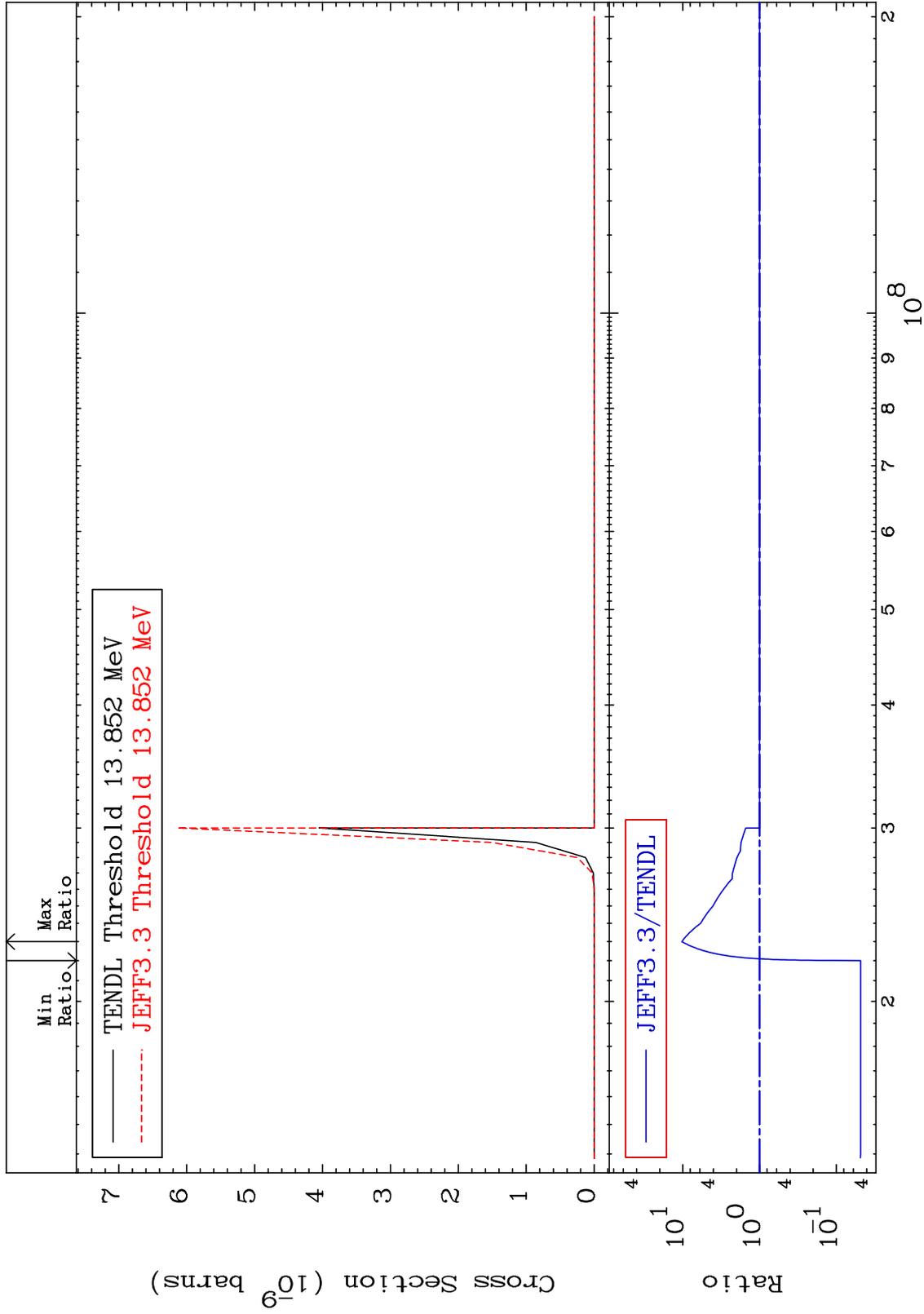
MAT 2034

(n, 3α)

20-Ca-43

Cross Section

-95.19 To 934.1 %



MAT 2034

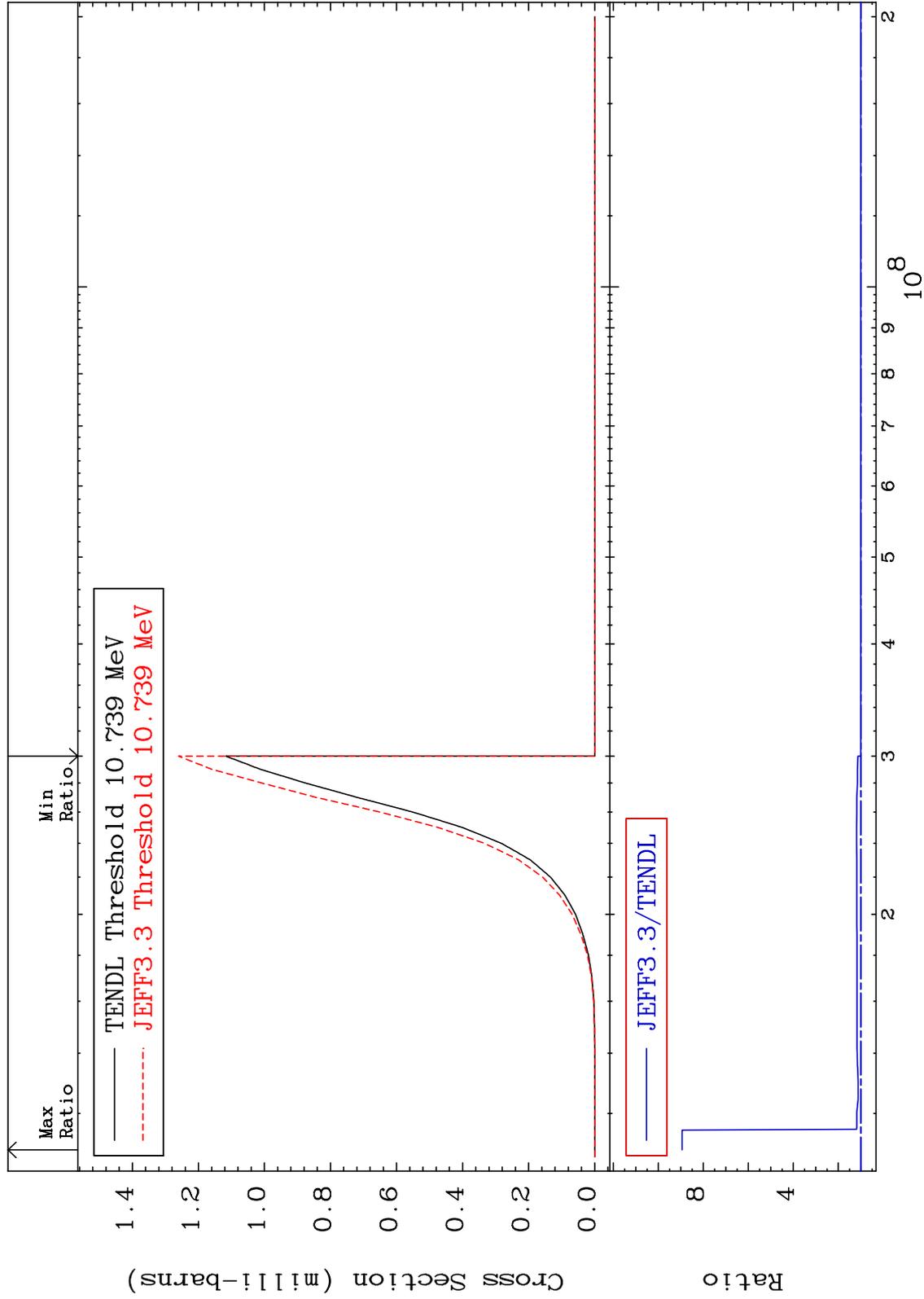
(n,2p)

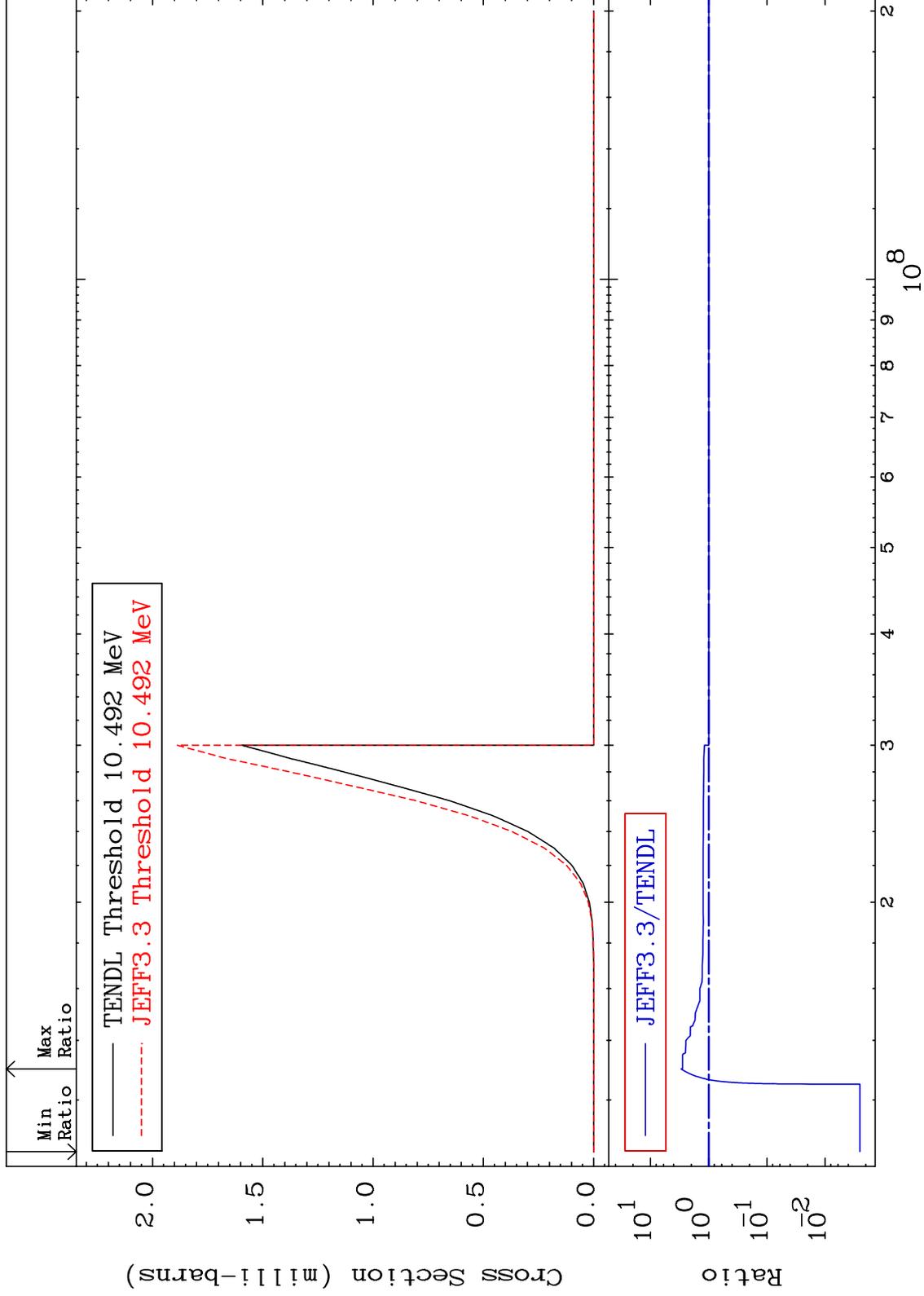
20-Ca-43

Cross Section

0.000

To 794.1 %





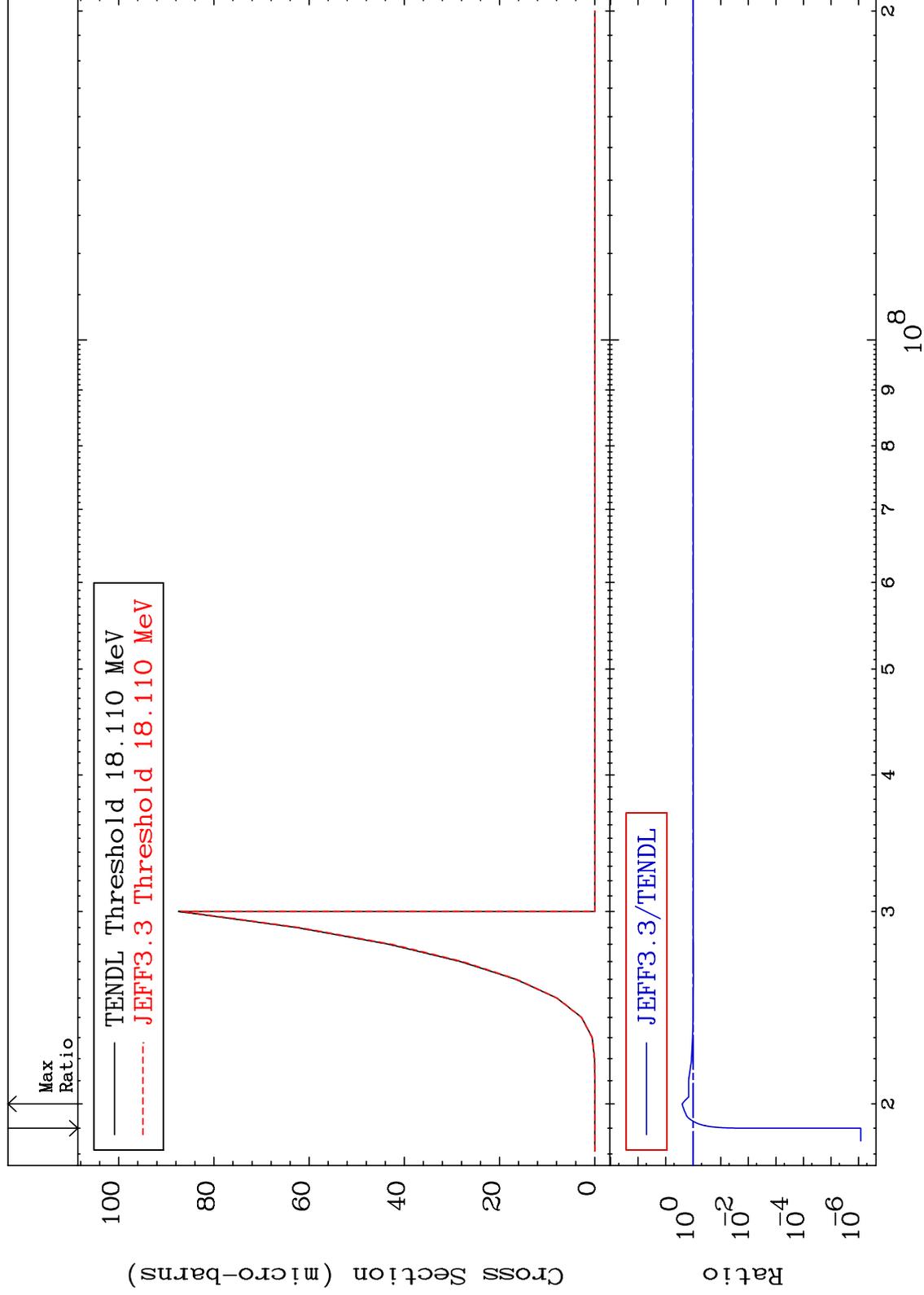
MAT 2034

(n,p) d

20-Ca-43

Cross Section

-100.0 To 151.3 %



62

Incident Energy (eV)

20-Ca-43

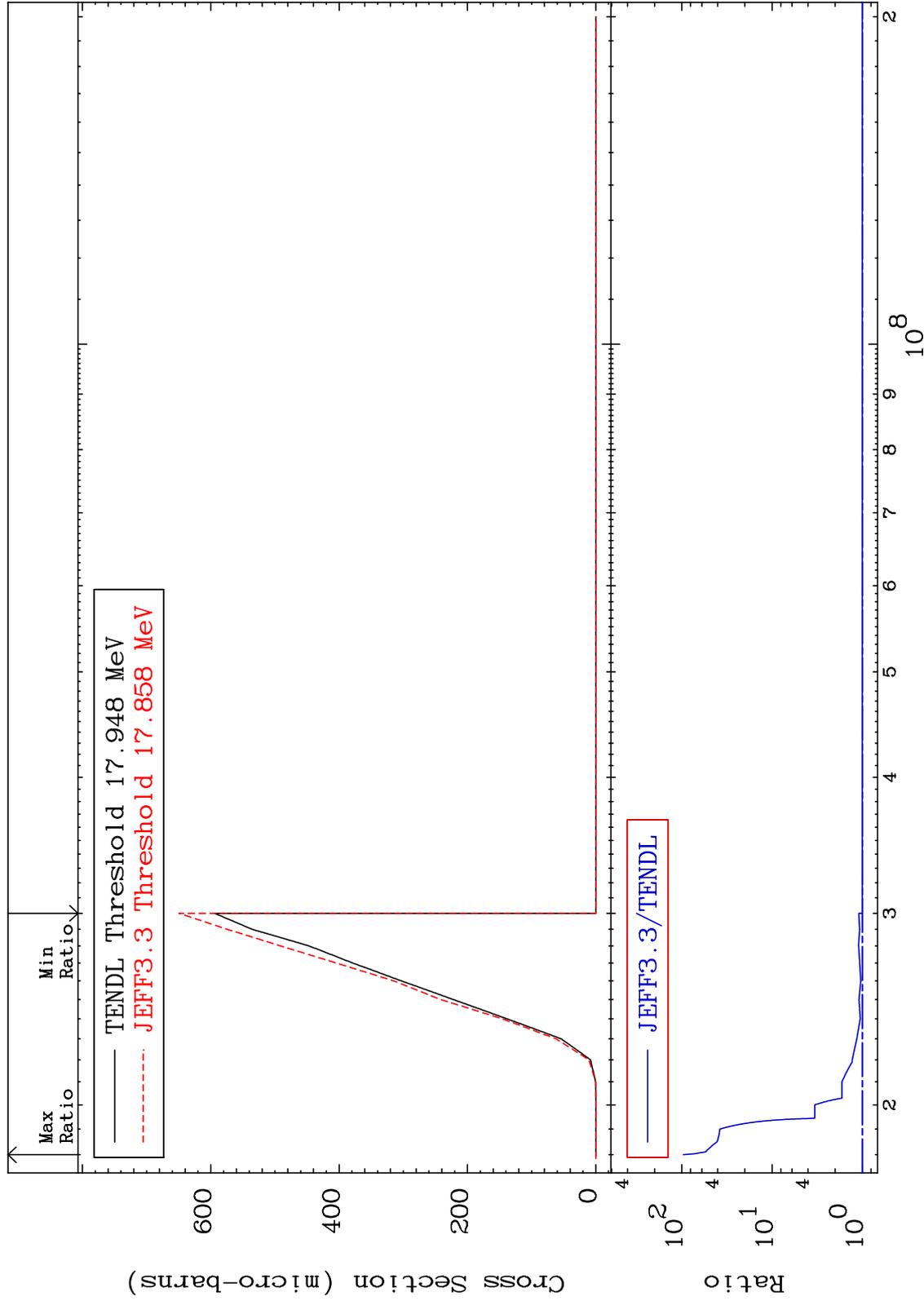
MAT 2034

(n,p) t

20-Ca-43

Cross Section

0.000 To 9507. %



63

Incident Energy (eV)

20-Ca-43

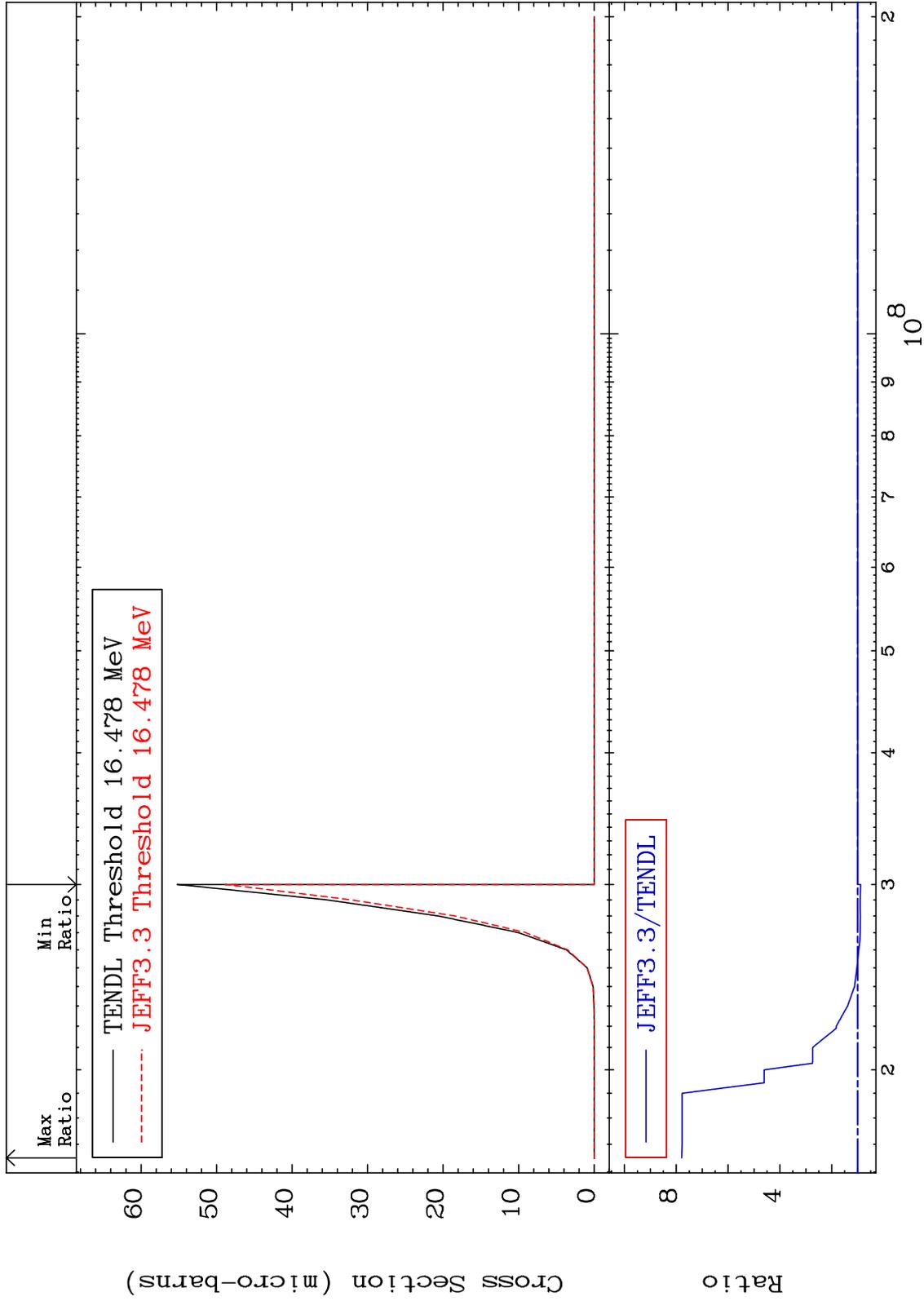
MAT 2034

(n,d) α

20-Ca-43

Cross Section

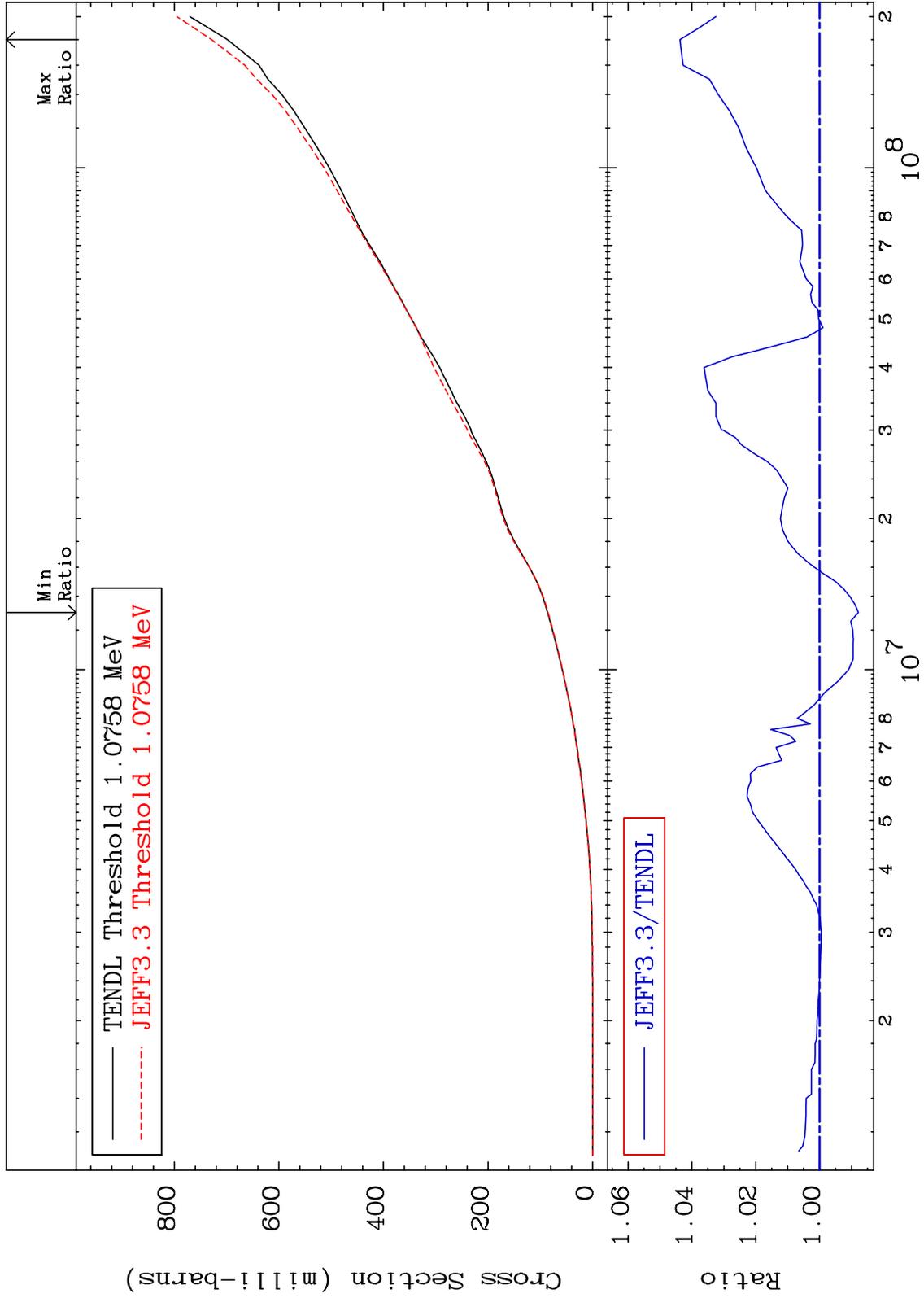
-11.49 To 678.9 %



MAT 2034

Hydrogen Production
Cross Section

20-Ca-43
-1.217 To 4.376 %



65

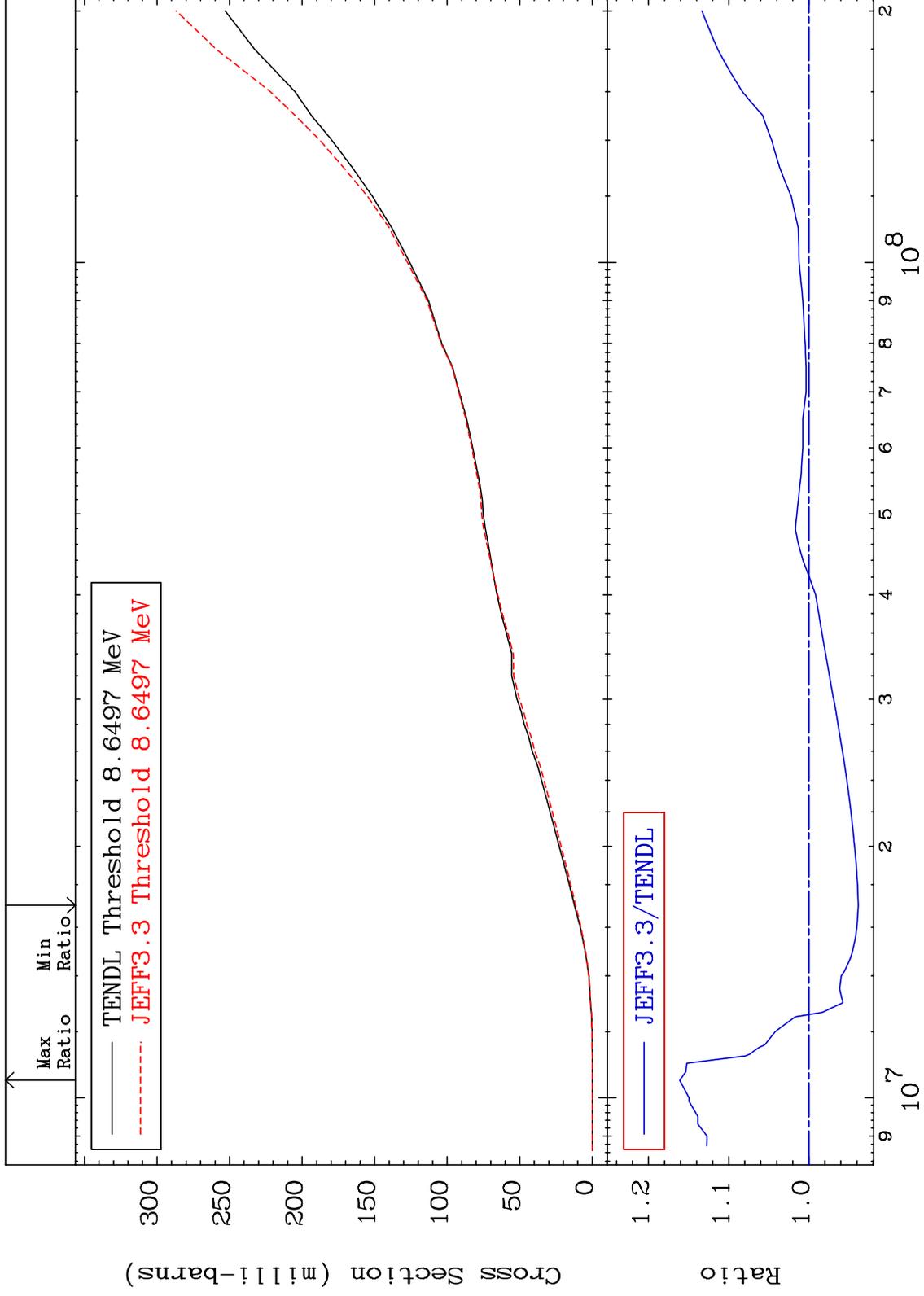
Incident Energy (eV)

20-Ca-43

MAT 2034

Deuterium Production
Cross Section

²⁰Ca-43
-6.174 To 16.11 %



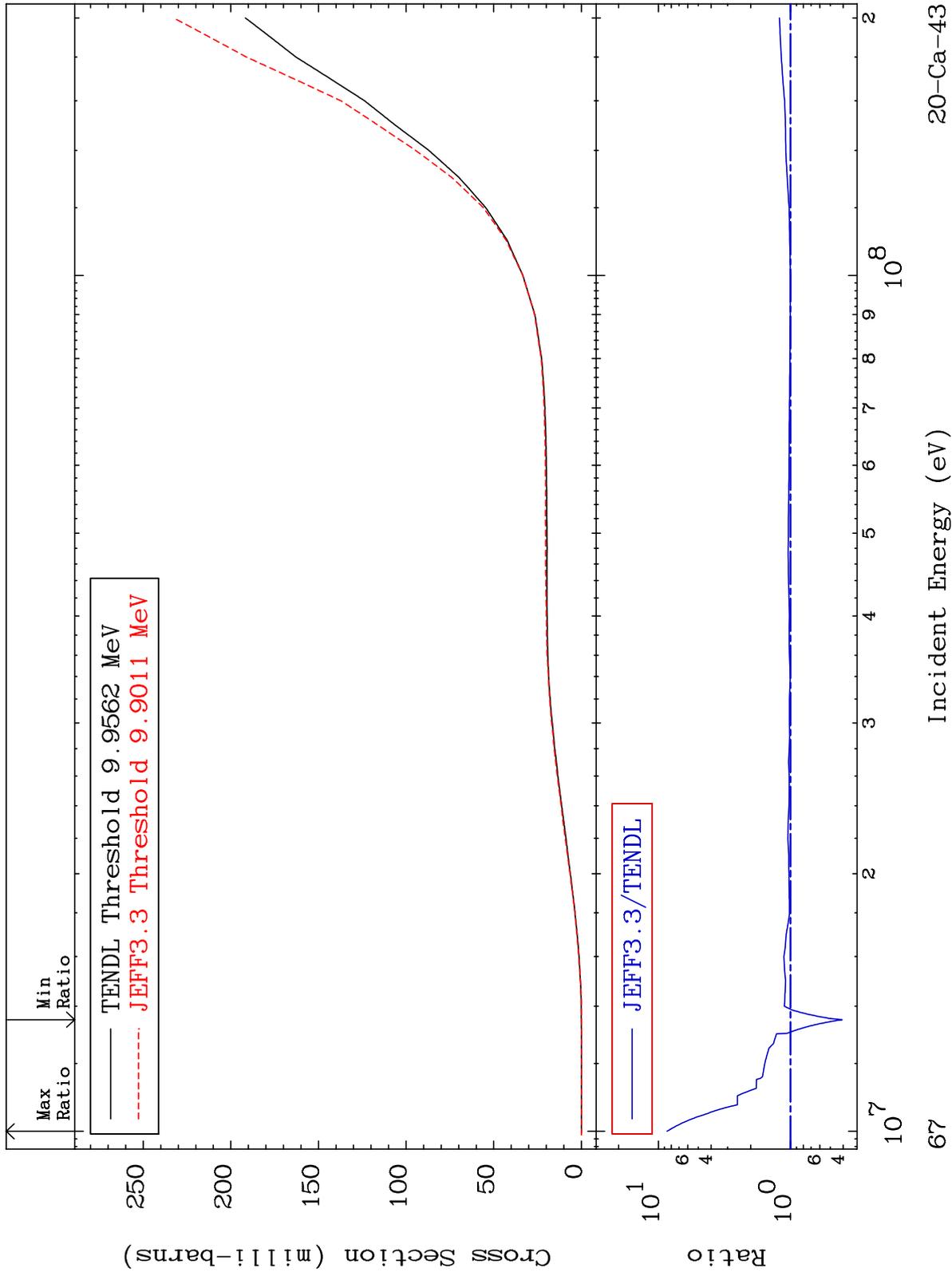
66

20-Ca-43

MAT 2034

Tritium Production
Cross Section

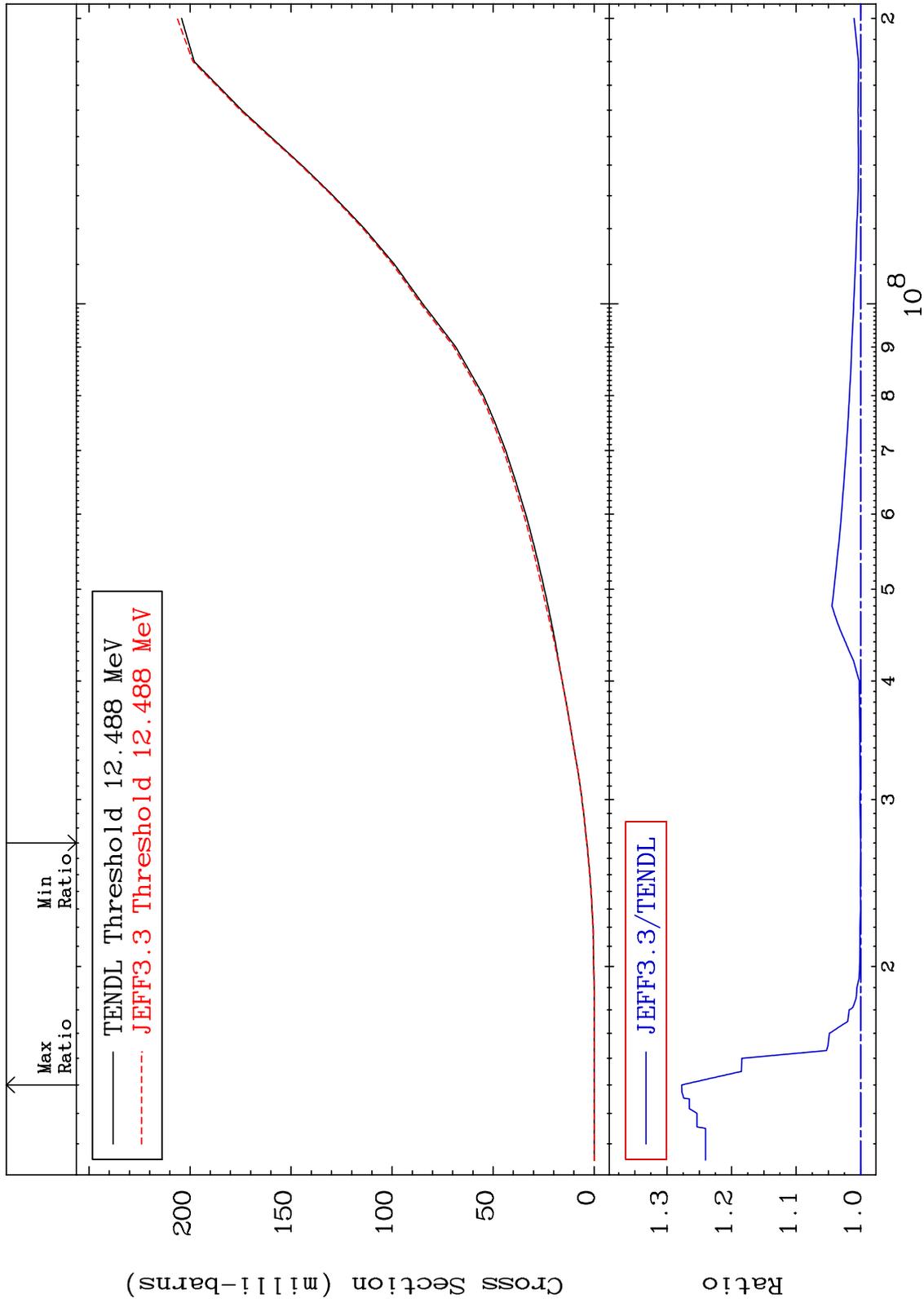
20-Ca-43
-59.31 To 760.7 %



MAT 2034

He-3 Production
Cross Section

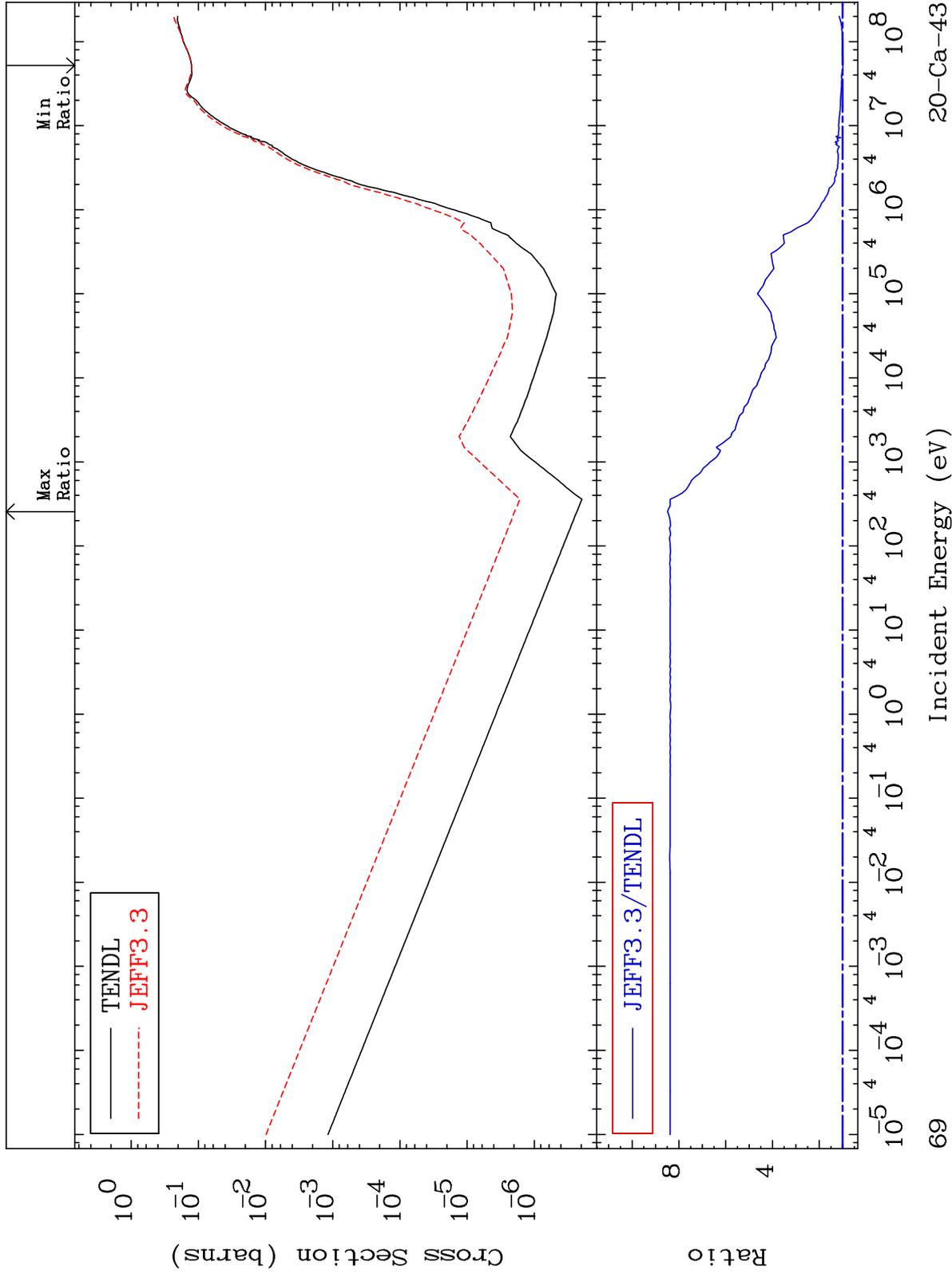
20-Ca-43
-0.005 To 27.72 %



MAT 2034

He-4 Production
Cross Section

20-Ca-43
-0.851 To 748.2 %



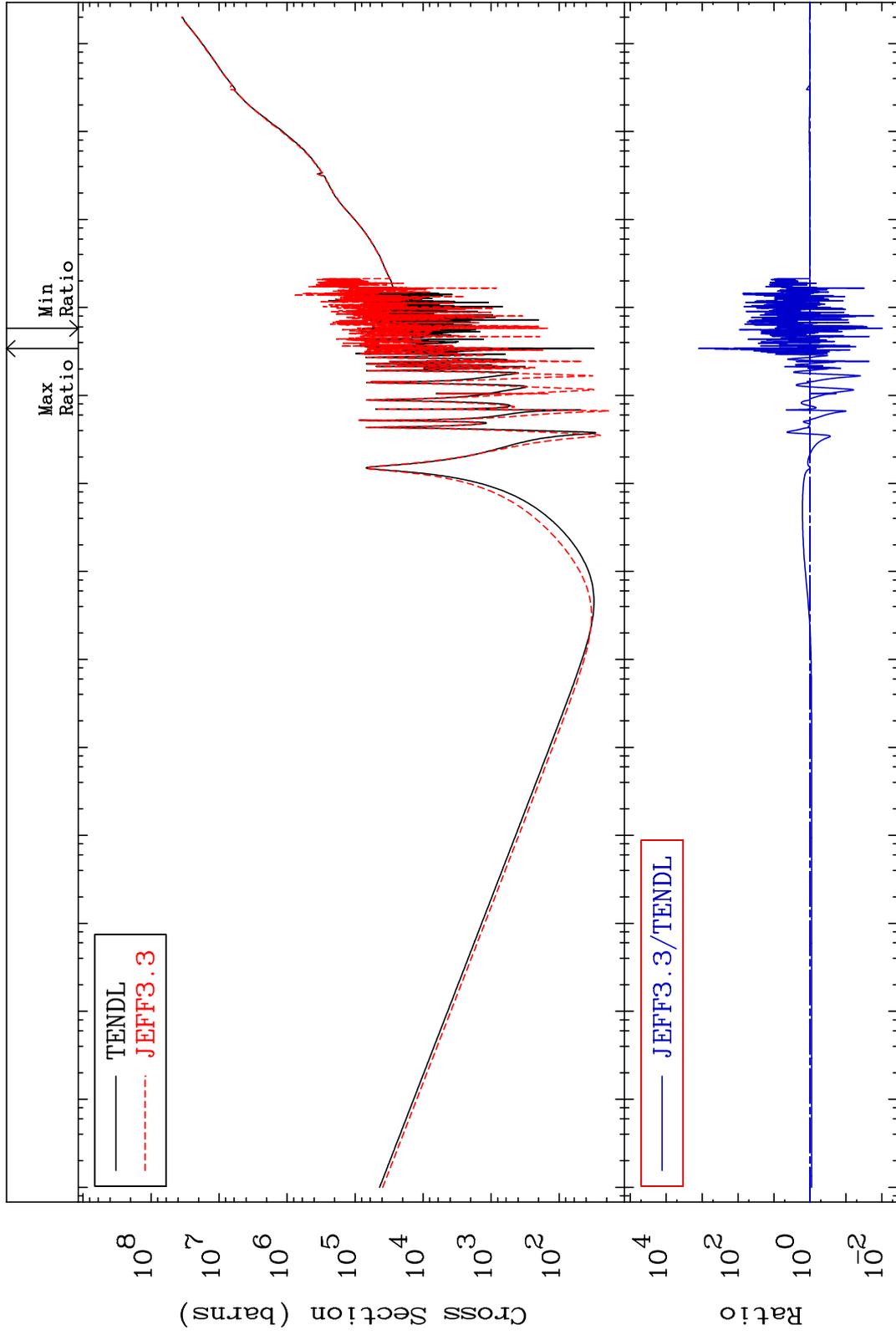
MAT 2034

Kerma total (eV-barns)

20-Ca-43

Cross Section

-99.02 To 9999. %

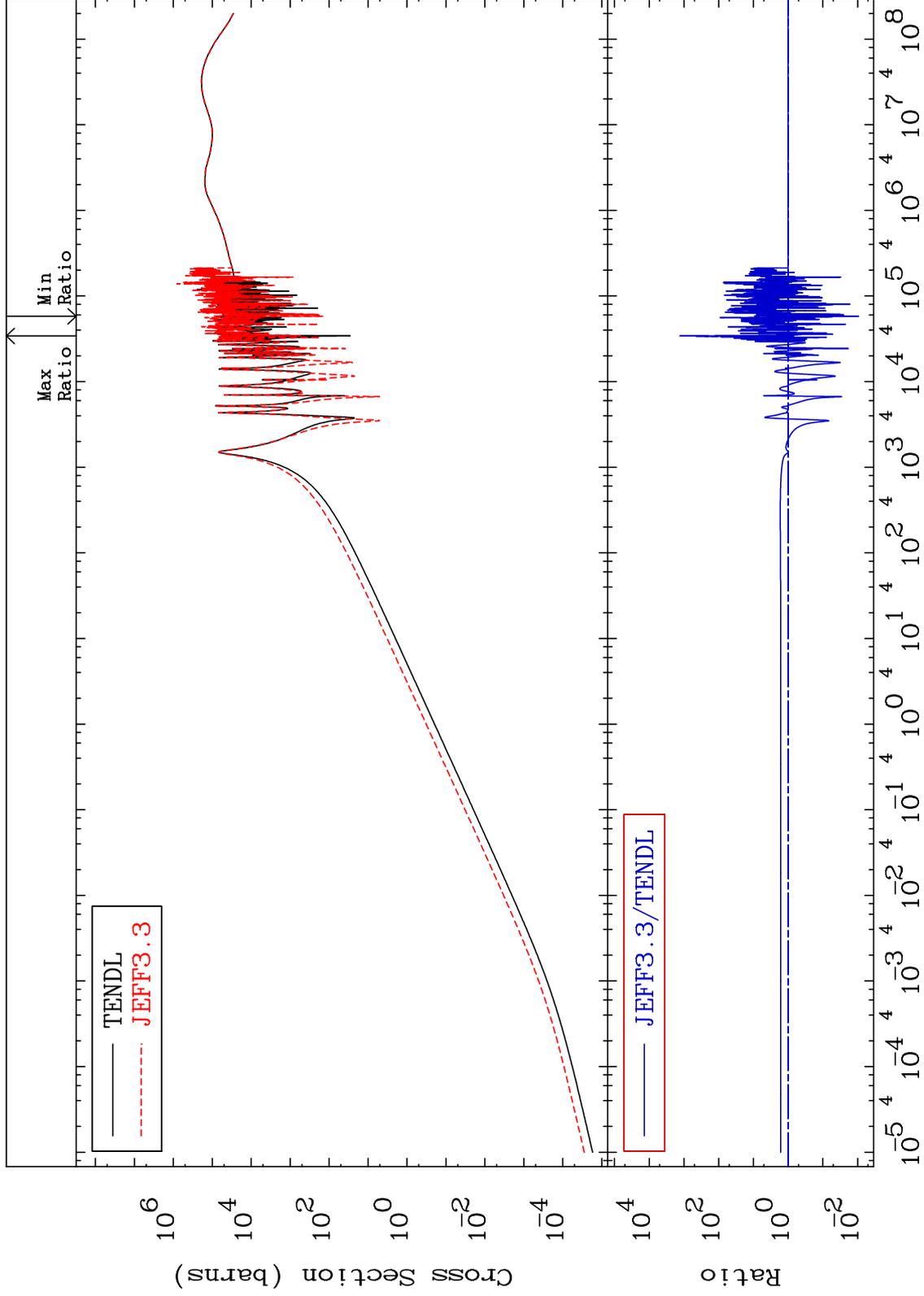


Incident Energy (eV) 20-Ca-43

MAT 2034

Kerma elastic
Cross Section

20-Ca-43
-99.05 To 9999. %



71

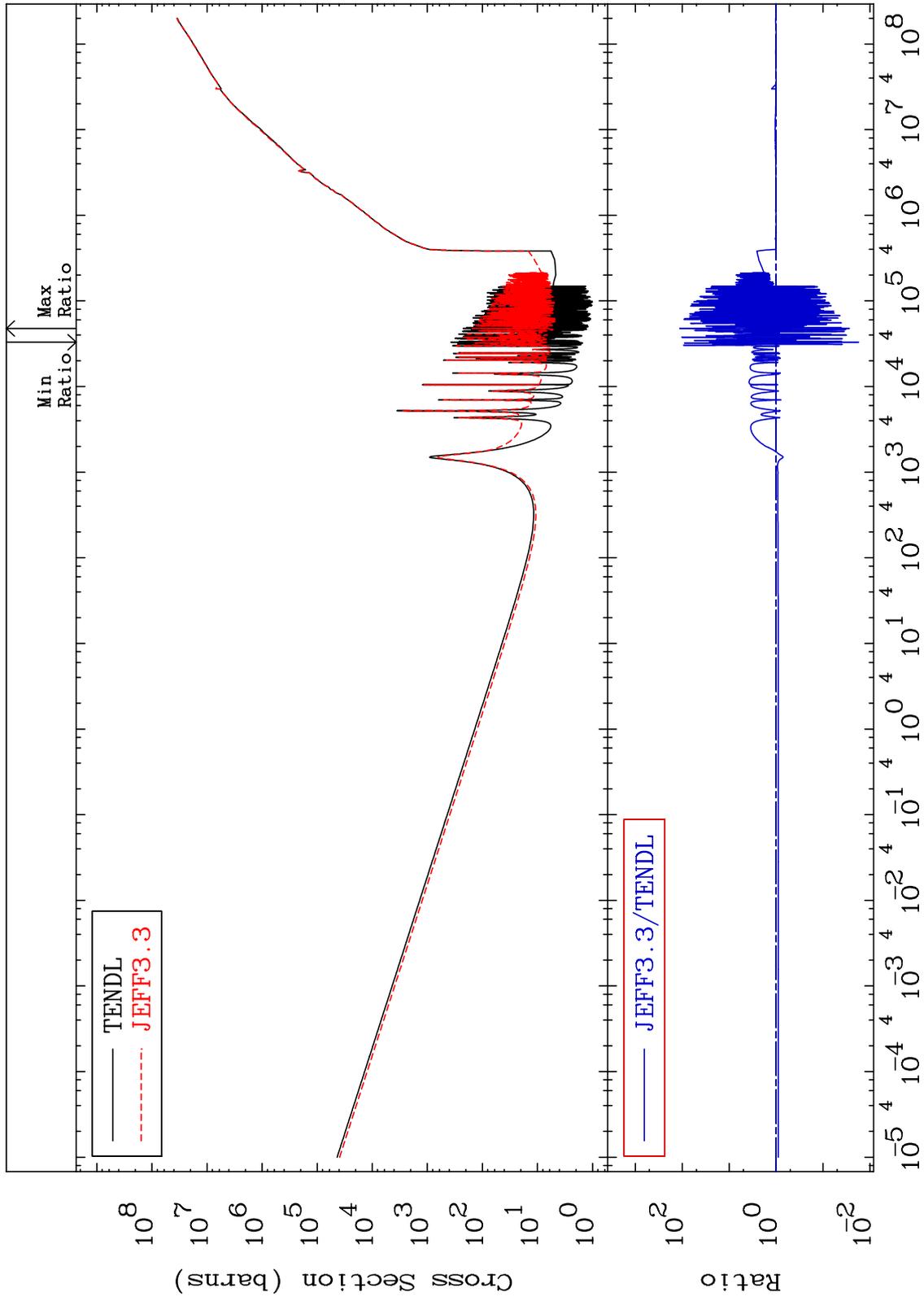
Incident Energy (eV)

20-Ca-43

MAT 2034

Kerma non-elastic (all but mt2)
Cross Section

20-Ca-43
-98.24 To 9999. %



72

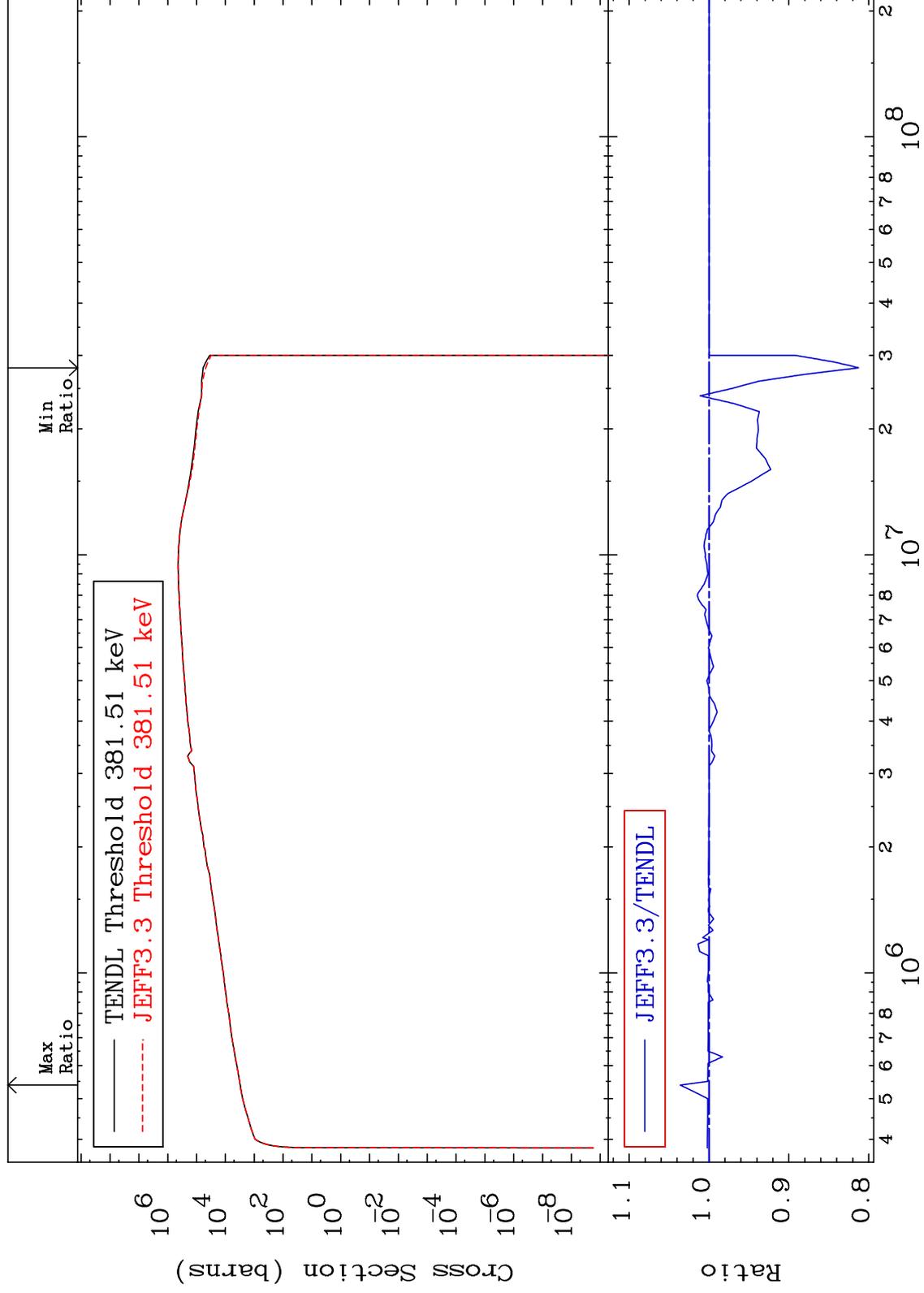
Incident Energy (eV)

20-Ca-43

MAT 2034

Kerma inelastic (mt51-91)
Cross Section

20-Ca-43
-18.73 To 3.589 %

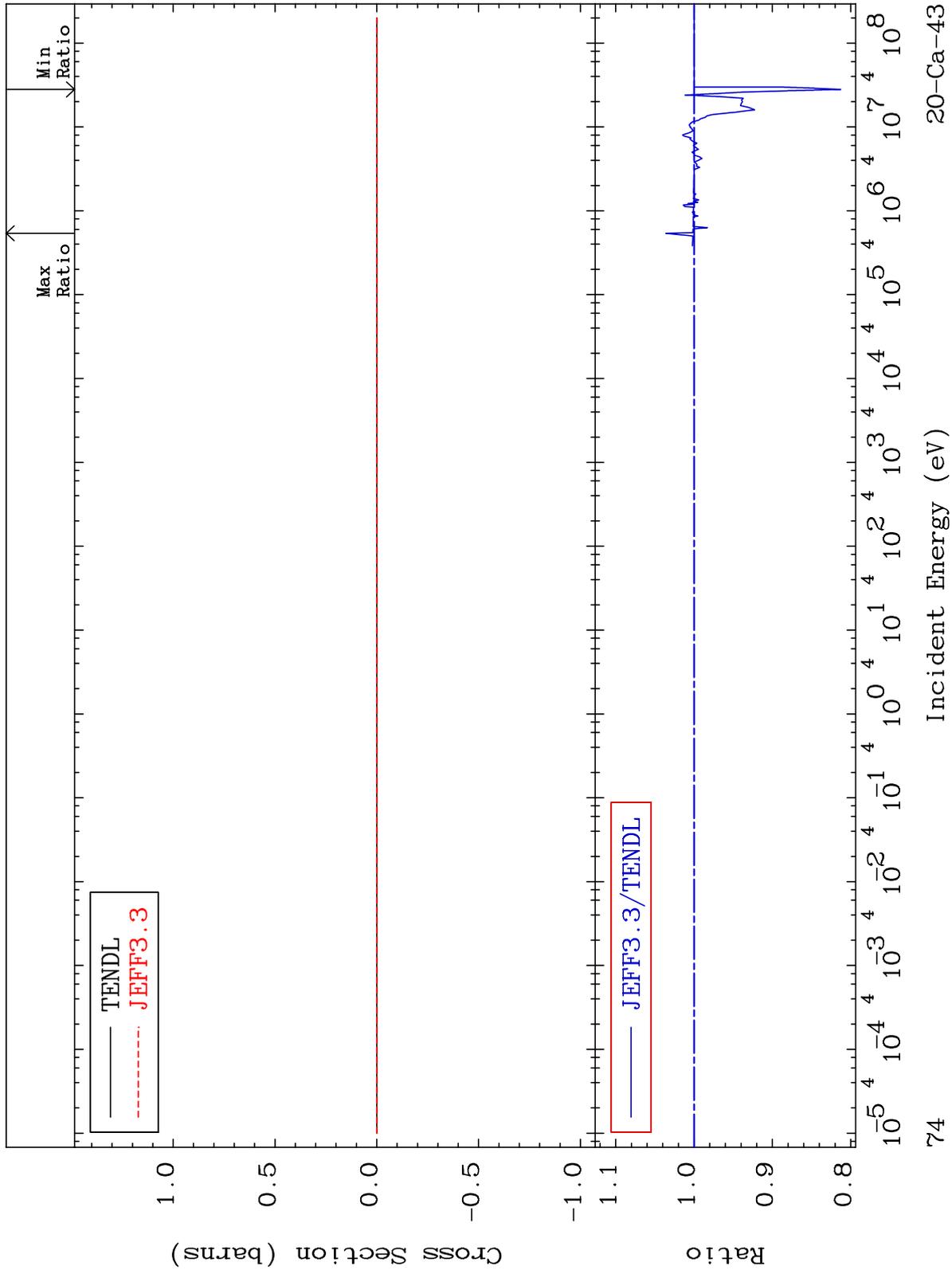


73

MAT 2034

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

20-Ca-43
-18.73 To 3.589 %



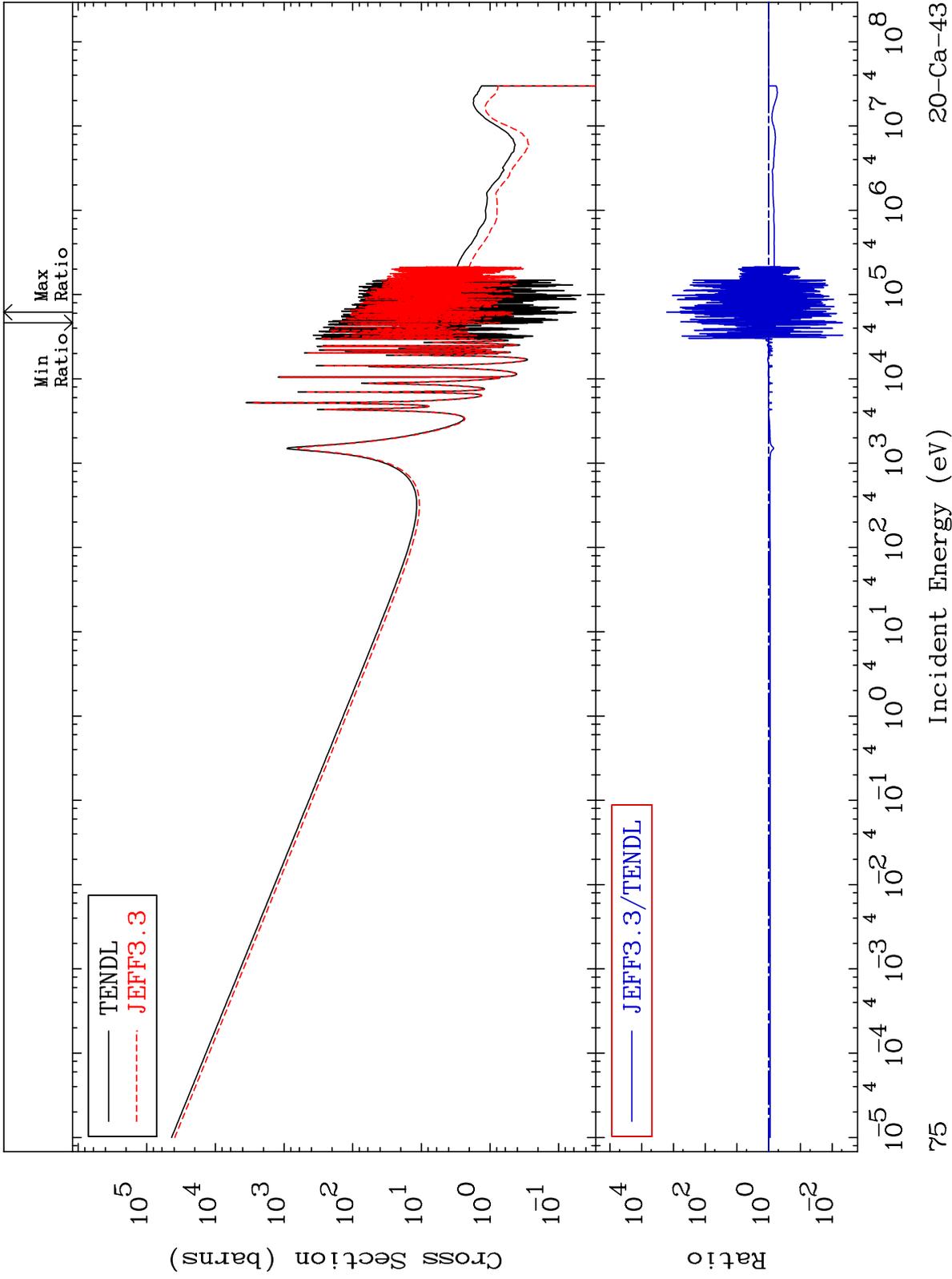
74

20-Ca-43

MAT 2034

Kerma capture (mt102)
Cross Section

20-Ca-43
-99.53 To 9999. %



75

Incident Energy (eV)

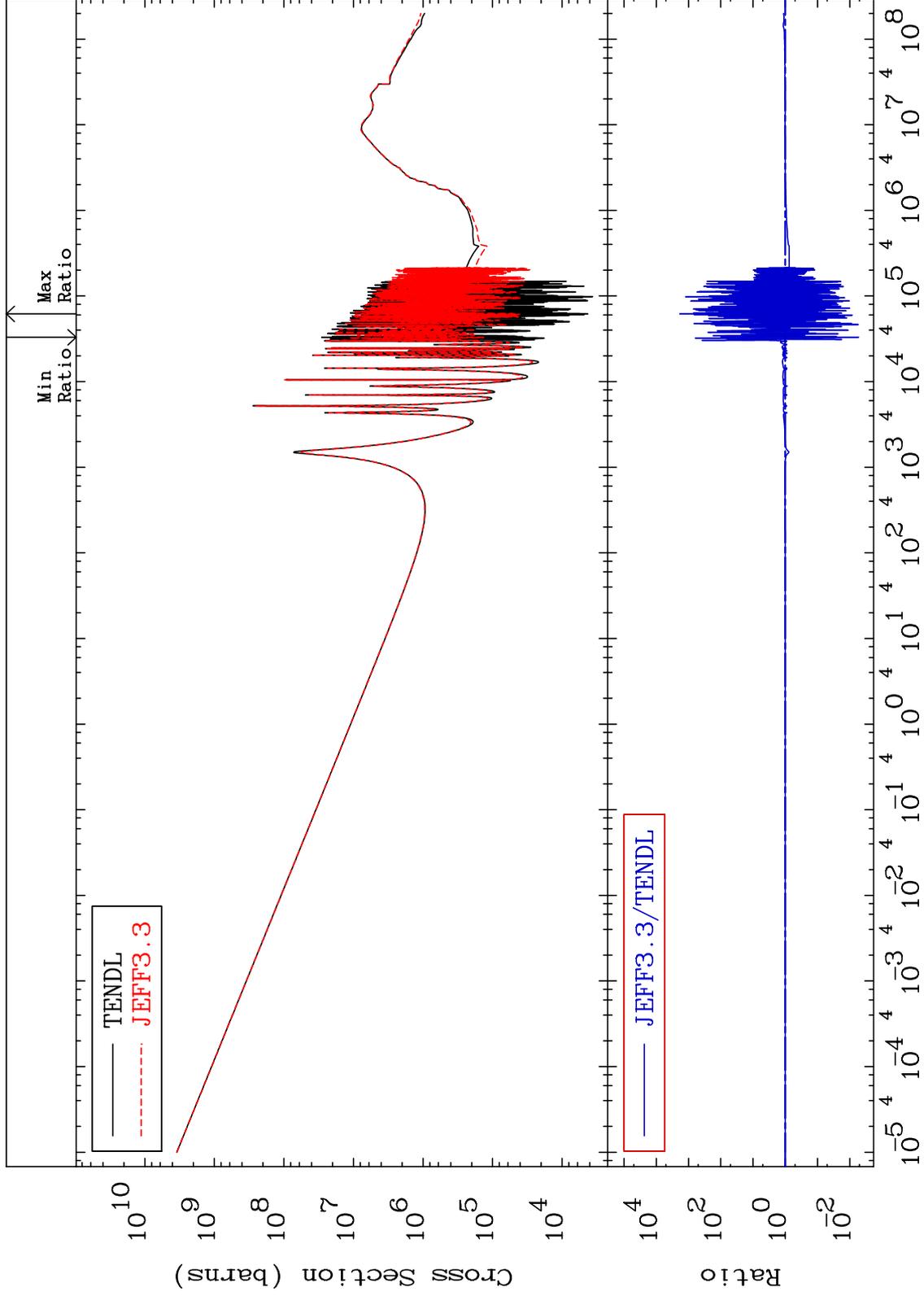
20-Ca-43

MAT 2034

Total photon (eV-barns)
Cross Section

20-Ca-43

-99.46 To 9999. %



76

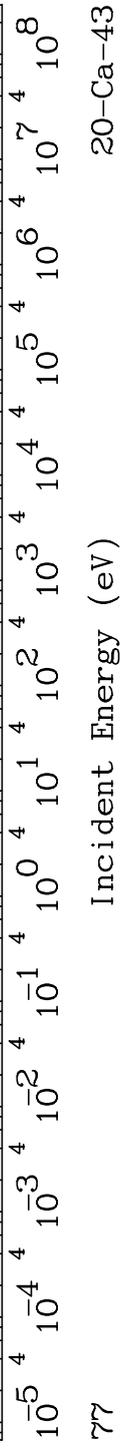
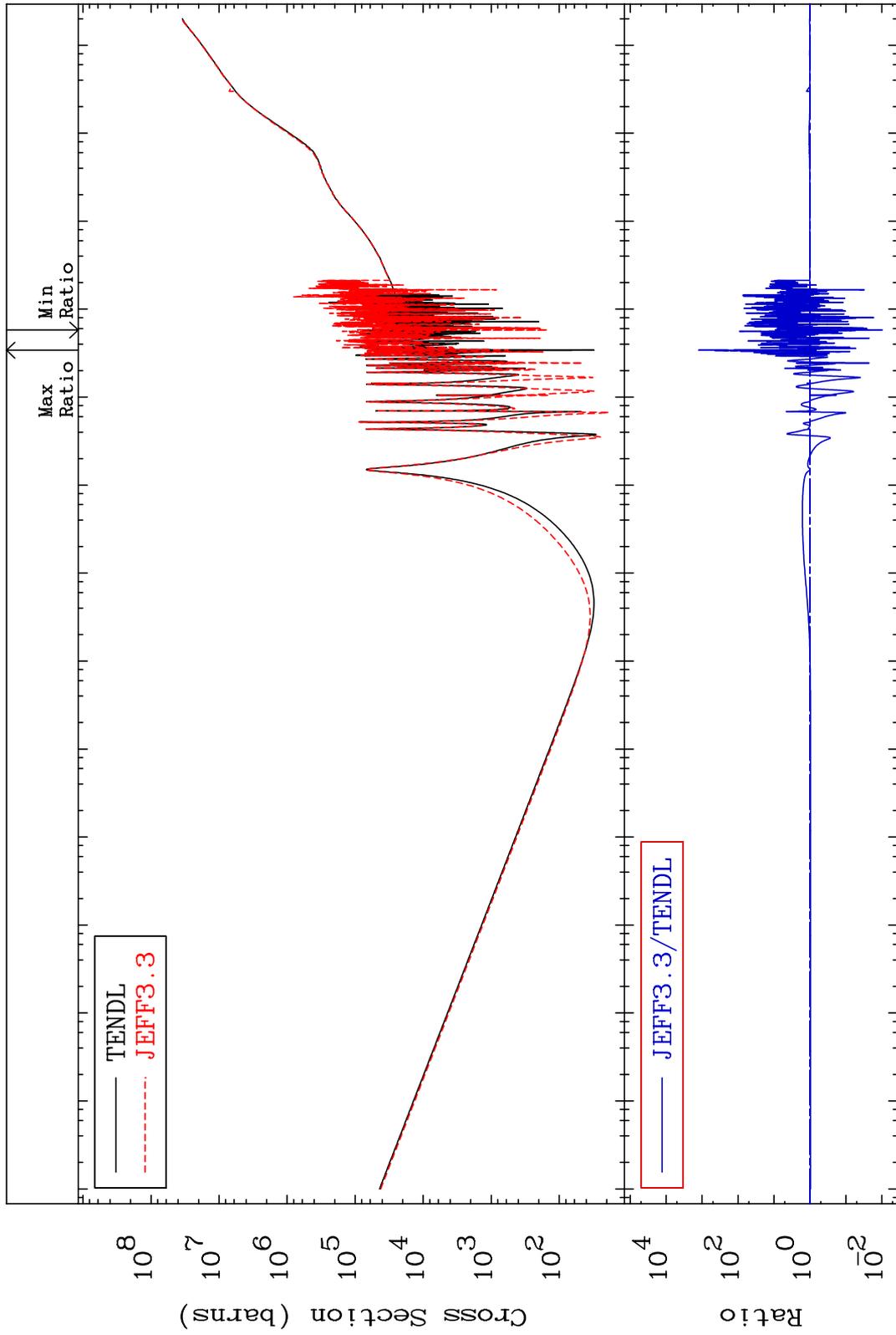
Incident Energy (eV)

20-Ca-43

MAT 2034

Total kinematic kerma (high limit)
Cross Section

20-Ca-43
-99.02 To 9999. %



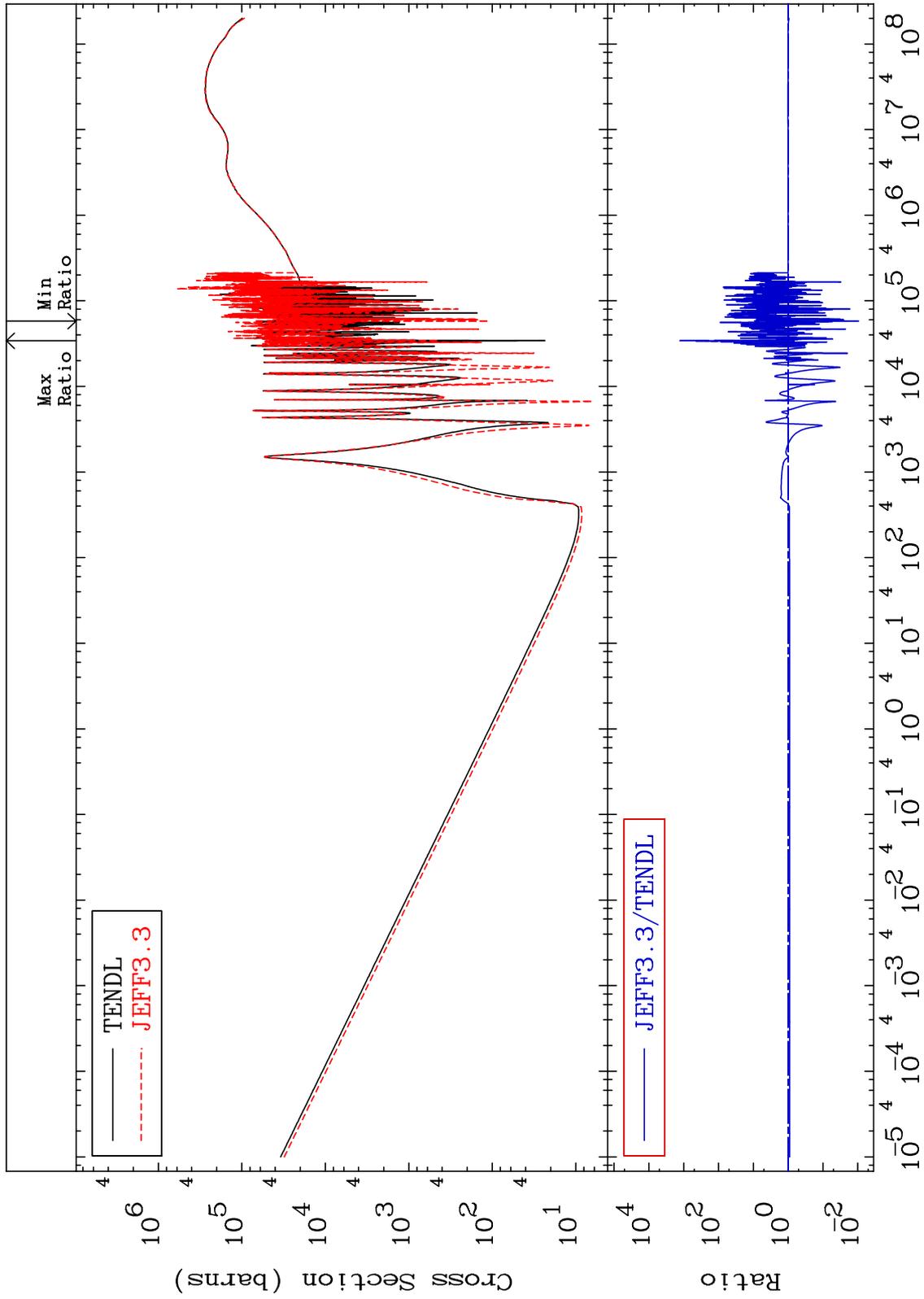
77

20-Ca-43

MAT 2034

Dpa total (eV-barns)
Cross Section

20-Ca-43
-99.04 To 9999. %



78

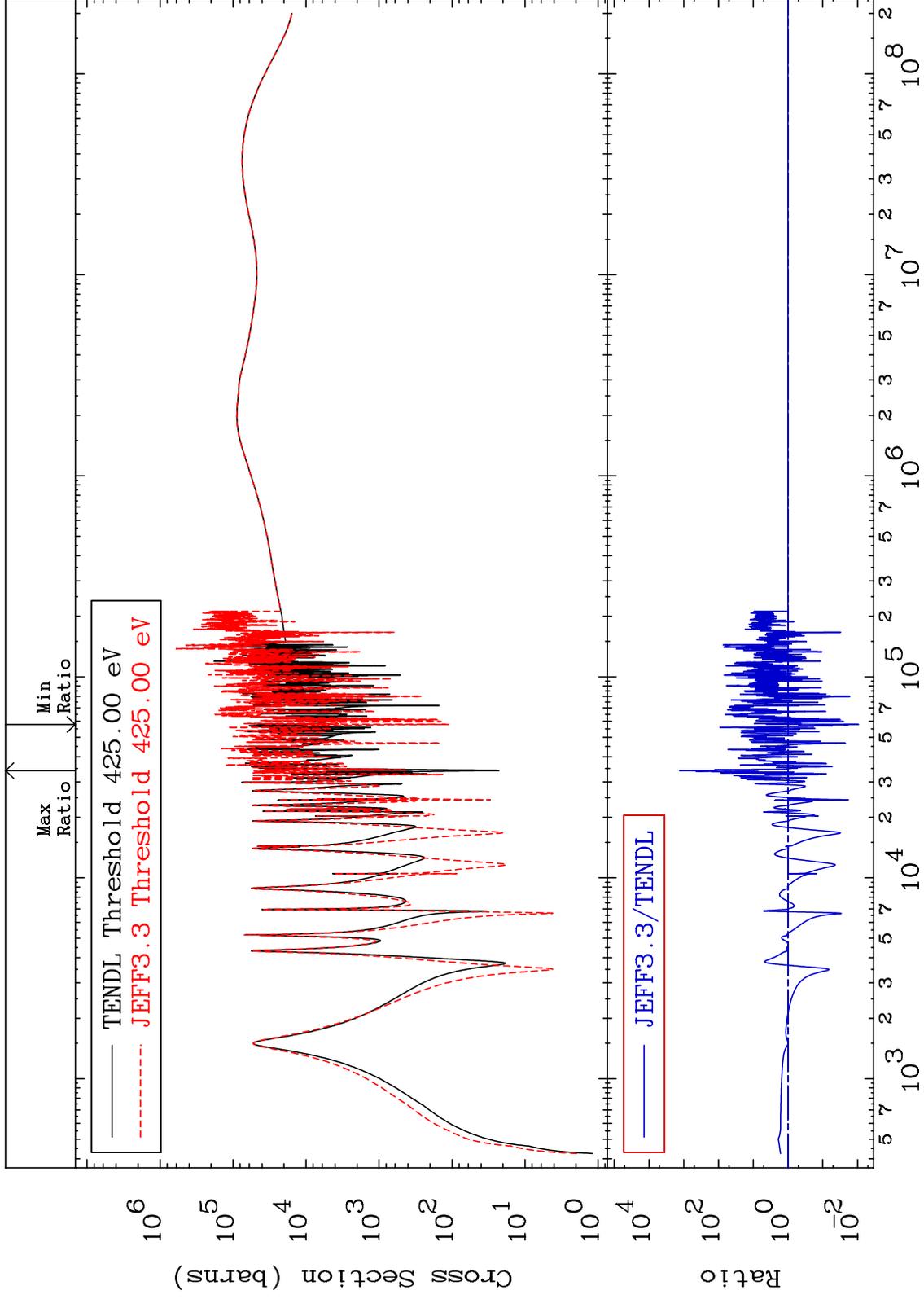
Incident Energy (eV)

20-Ca-43

MAT 2034

Dpa elastic (mt2)
Cross Section

20-Ca-43
-99.05 To 9999. %



79

Incident Energy (eV)

20-Ca-43

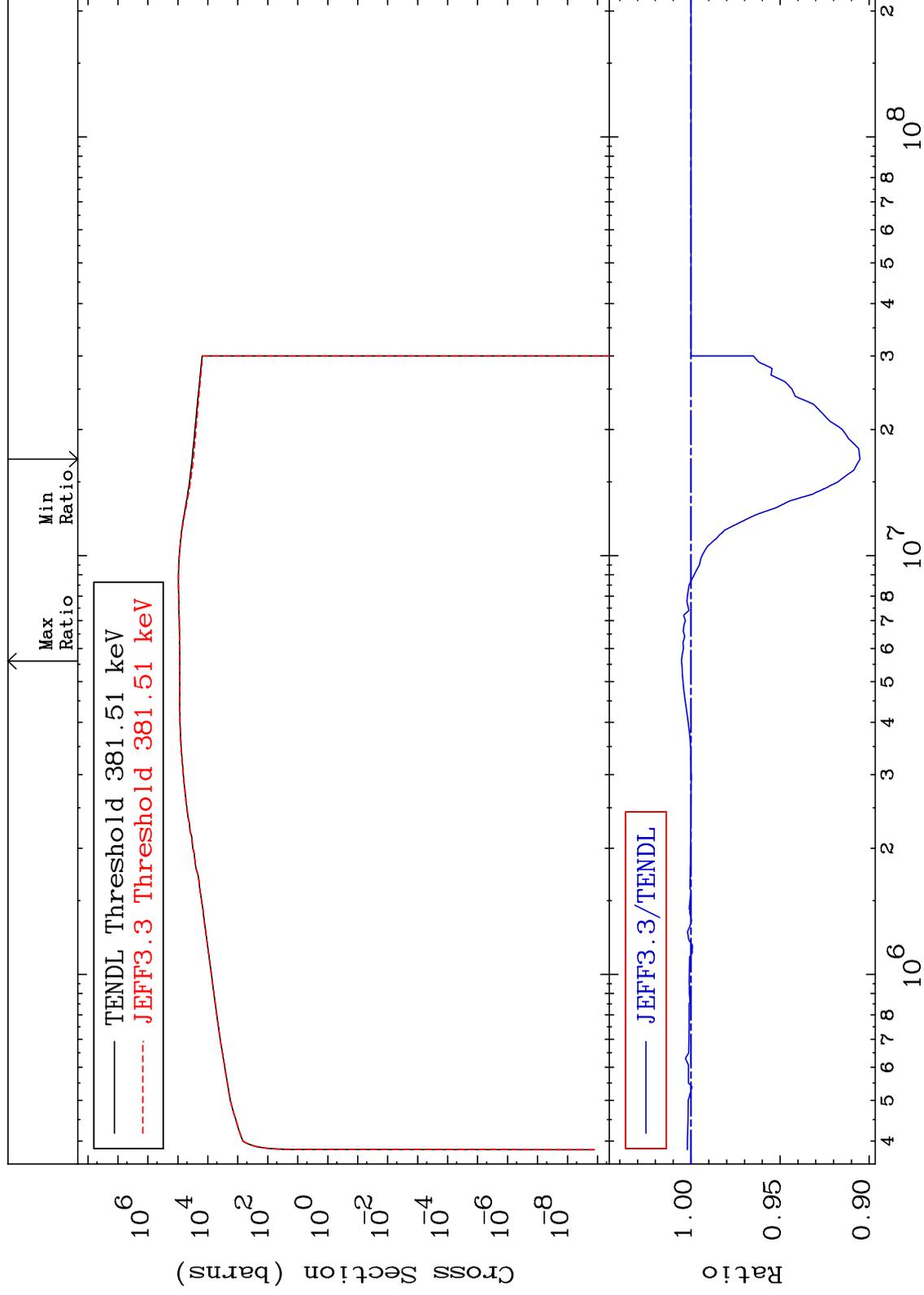
MAT 2034

Dpa inelastic (mt51-91)

20-Ca-43

-9.486 To 0.531 %

Cross Section



80

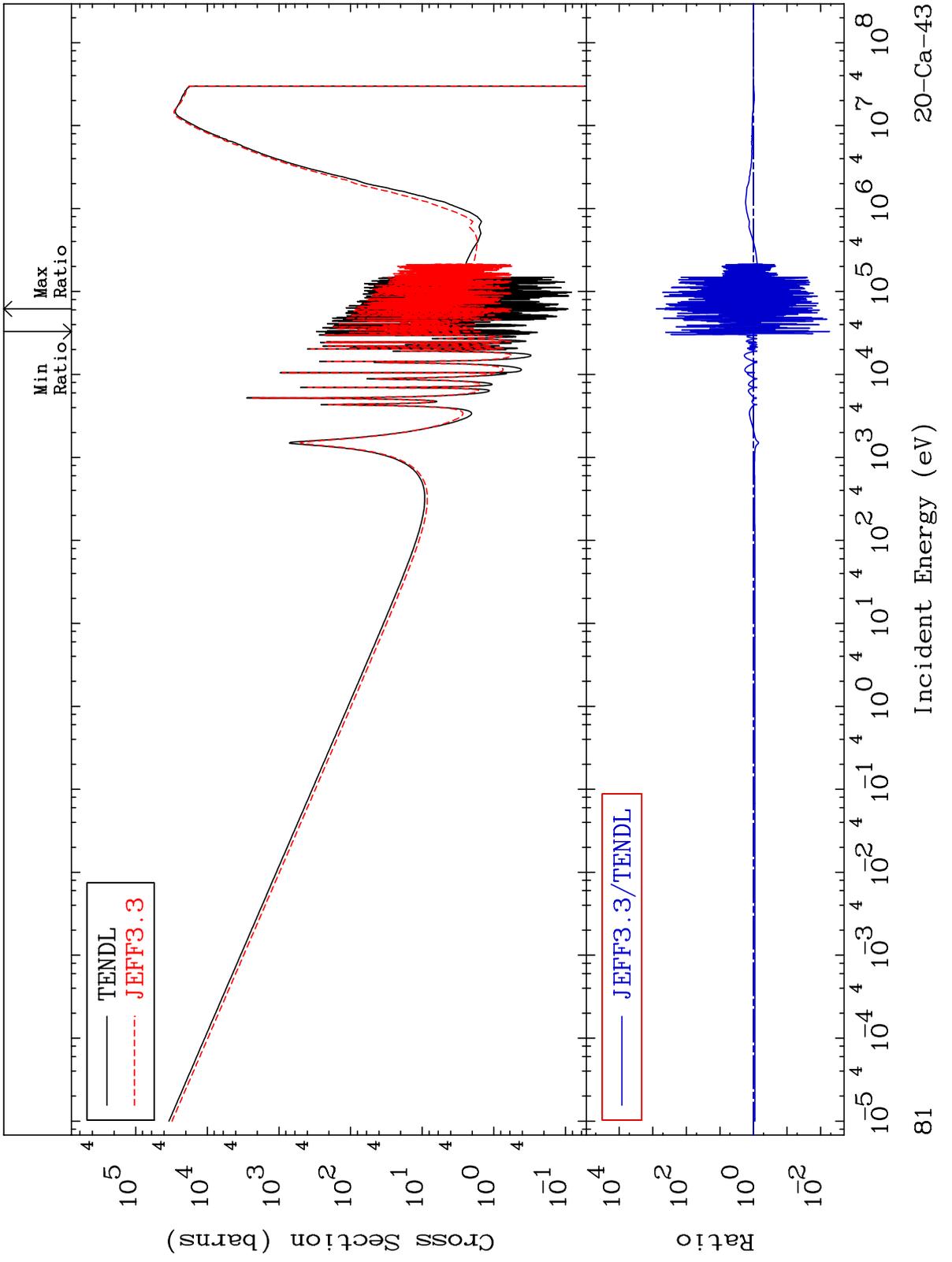
Incident Energy (eV)

20-Ca-43

MAT 2034

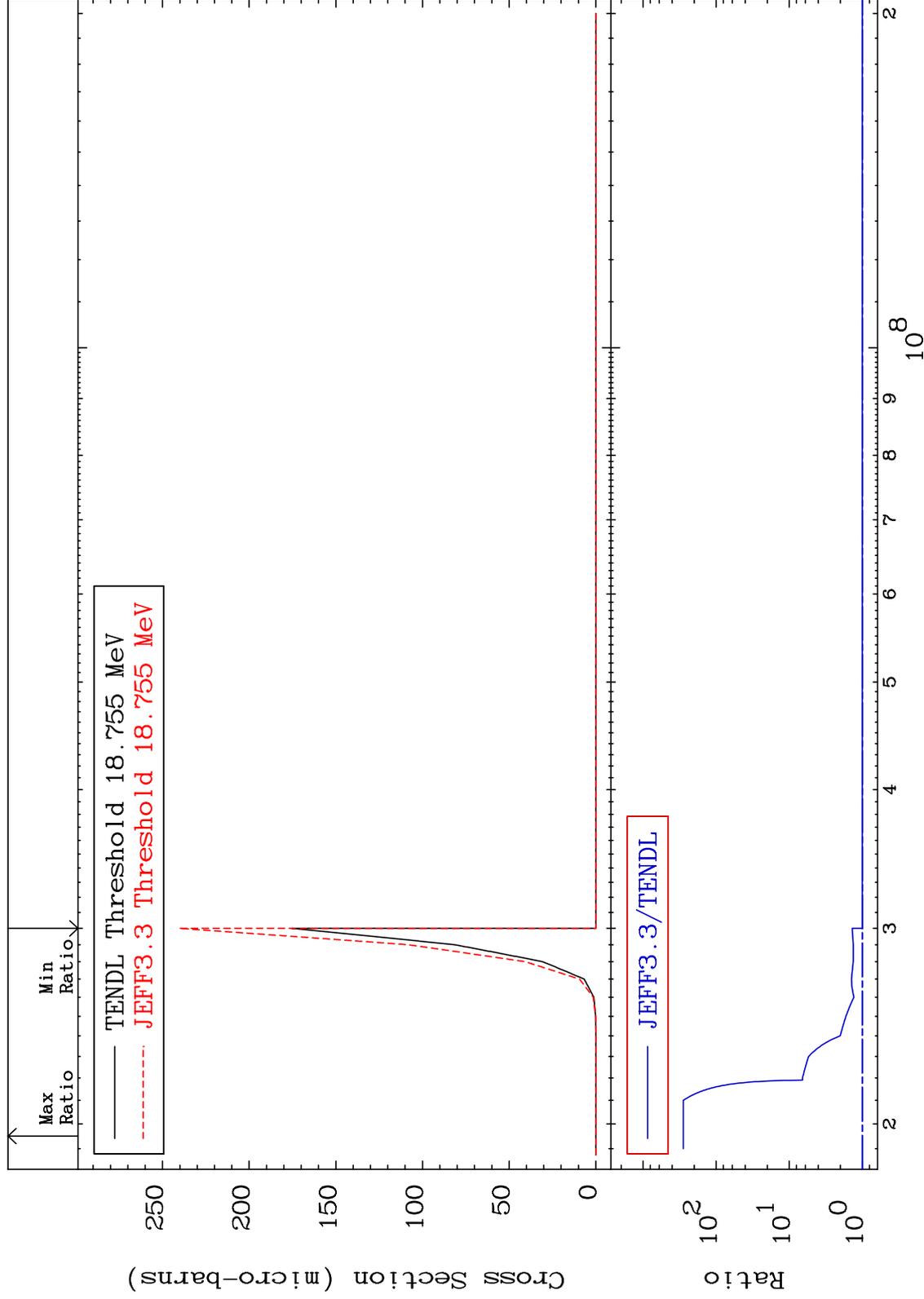
Dpa disappearance (mt102 -120)
Cross Section

20-Ca-43
-99.45 To 9999. %



MAT 2034

(n, n') p α : 17-Cl-38g 20-Ca-43
Radionuclide Production Cross Section 0.000 To 9999. %

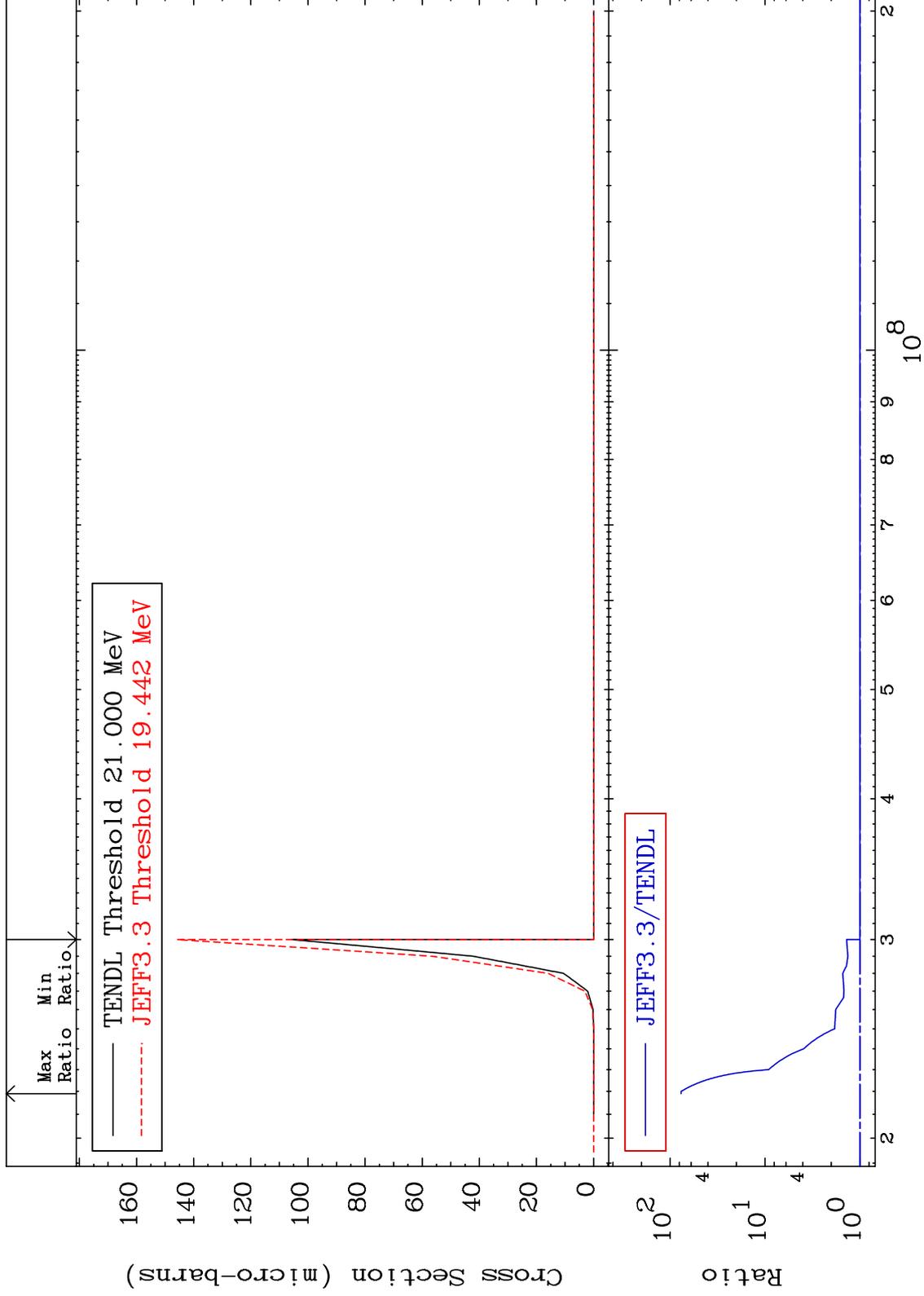


MAT 2034

(n, n') p α : 17-Cl-38m1

20-Ca-43

Radionuclide Production Cross Section 0.000 To 7547. %

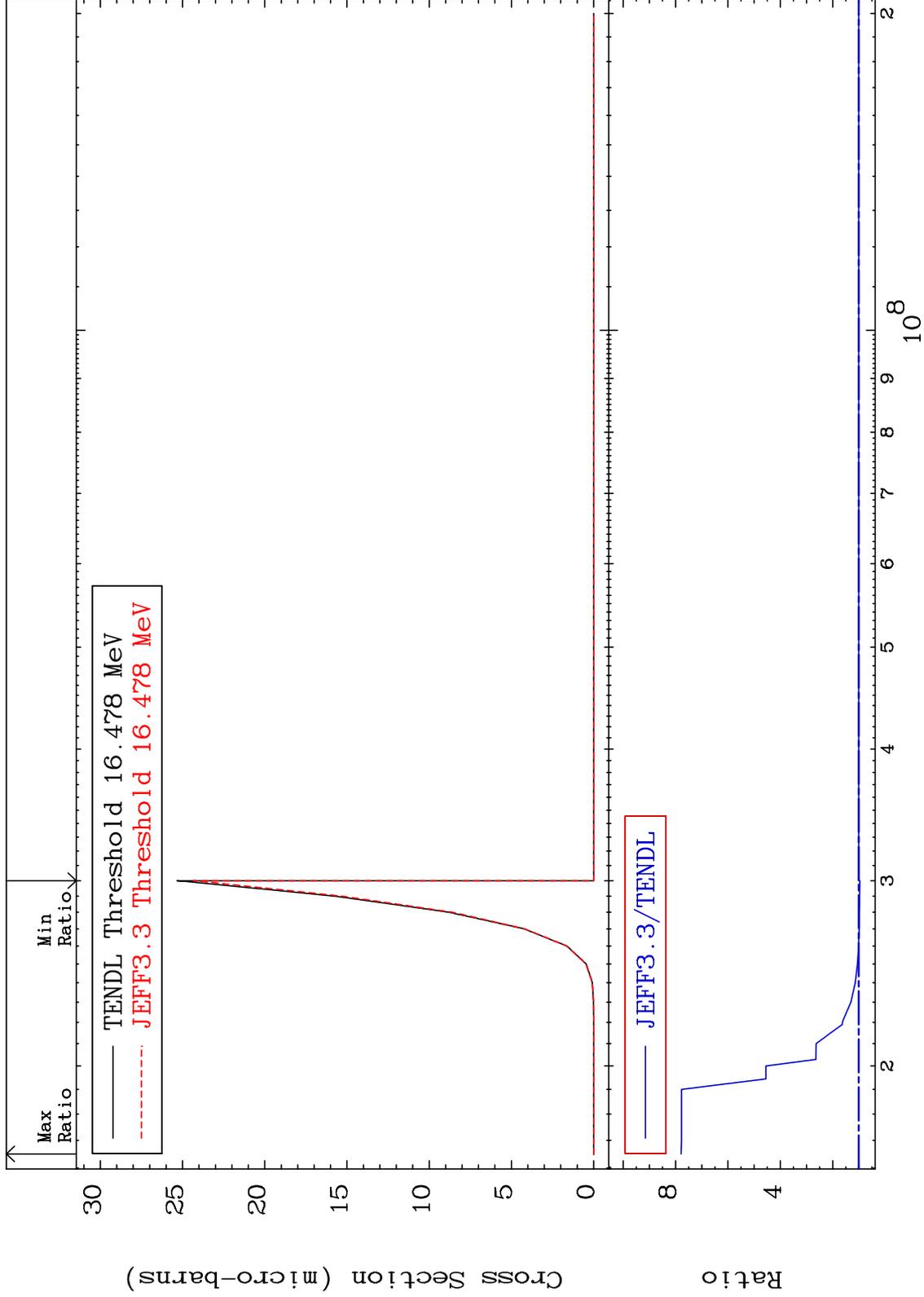


MAT 2034

(n,d) α :17-Cl-38g

20-Ca-43

Radionuclide Production Cross Section -3.953 To 678.7 %



84

Incident Energy (eV)

20-Ca-43

Radionuclide Production Cross Section -17.88 To 750.0 %

