

Program Complot
(Version 2018-1)

by

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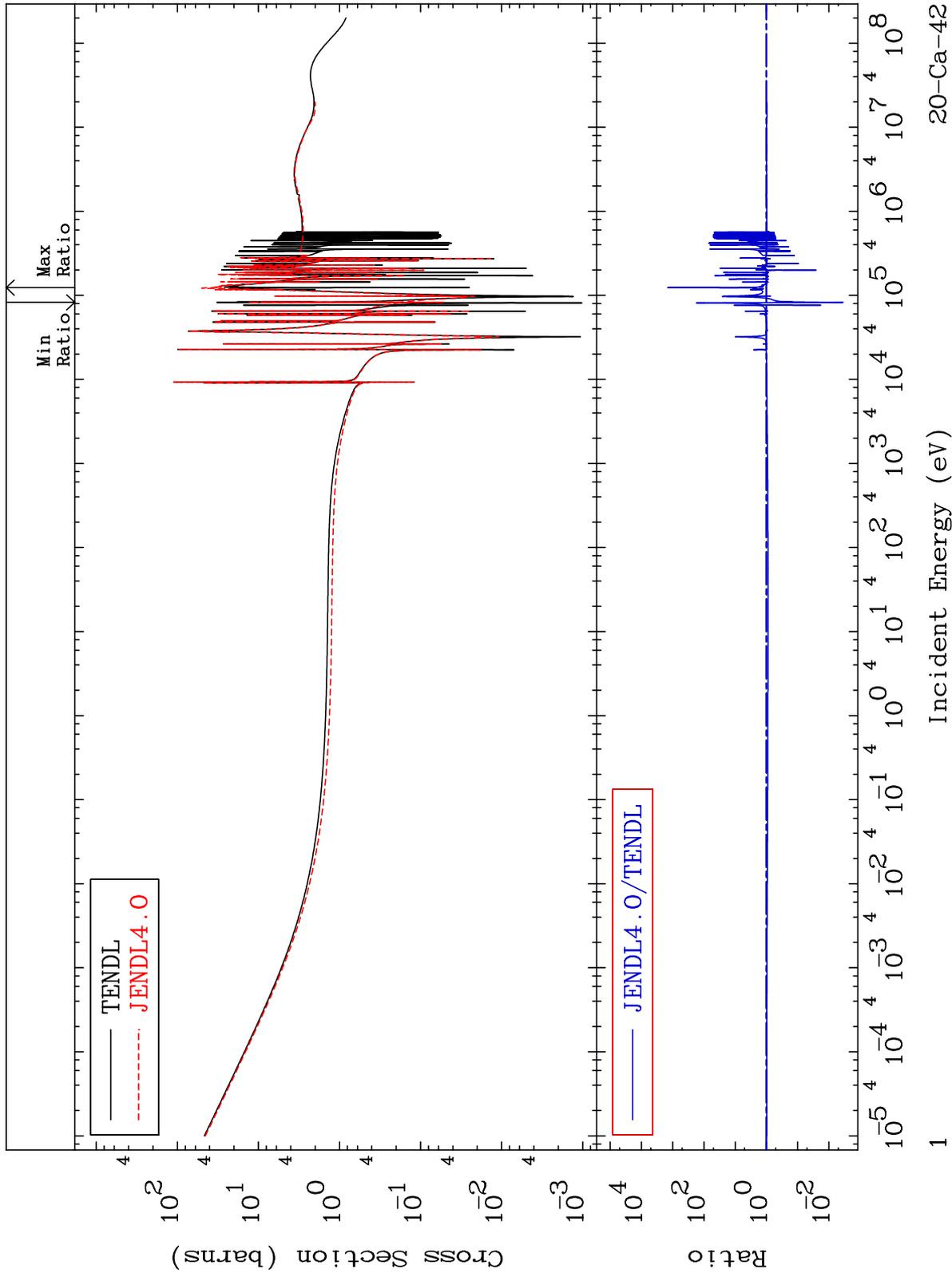
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 2031

Total
Cross Section

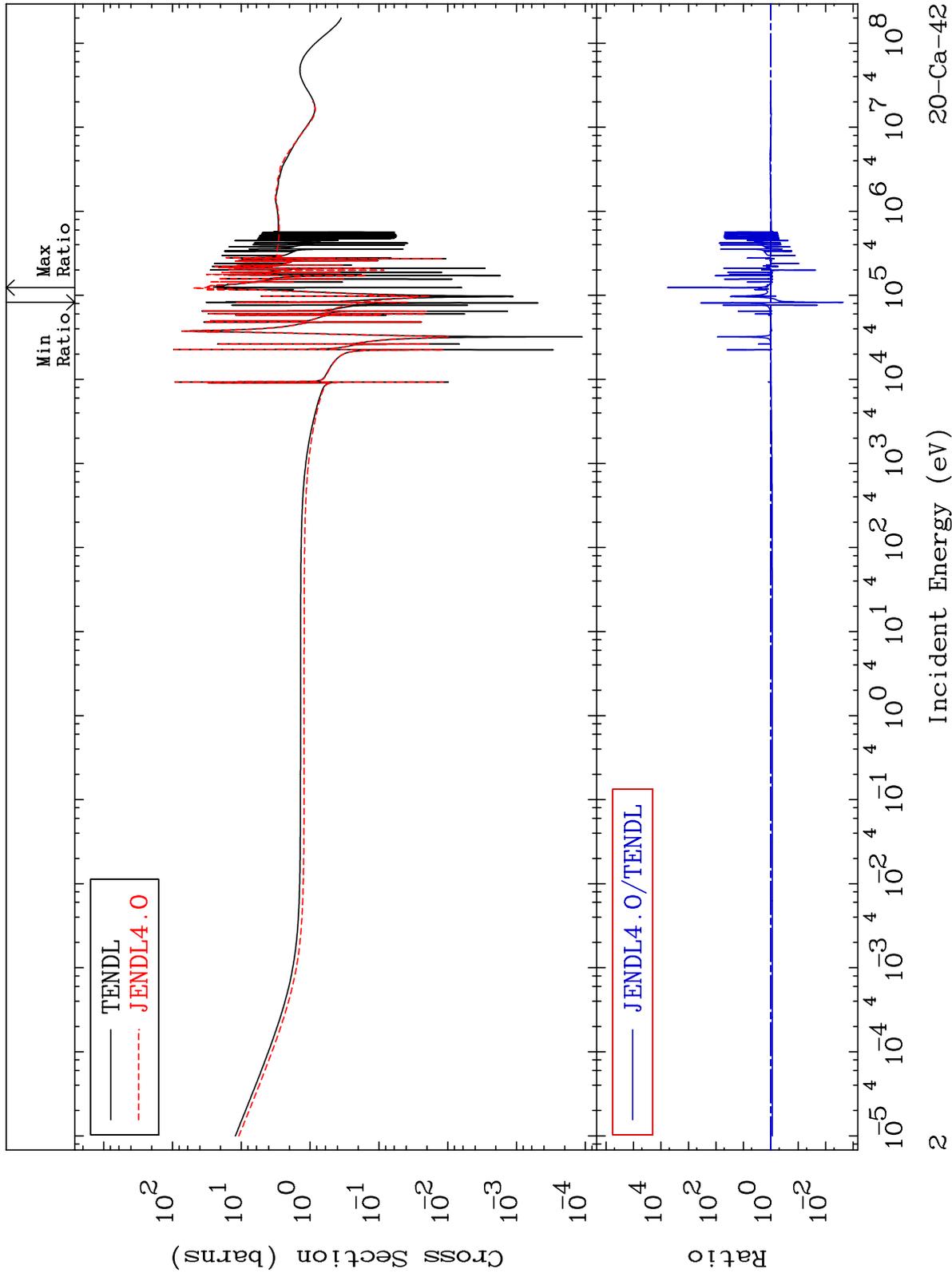
20-Ca-42
-99.64 To 9999. %



MAT 2031

Elastic
Cross Section

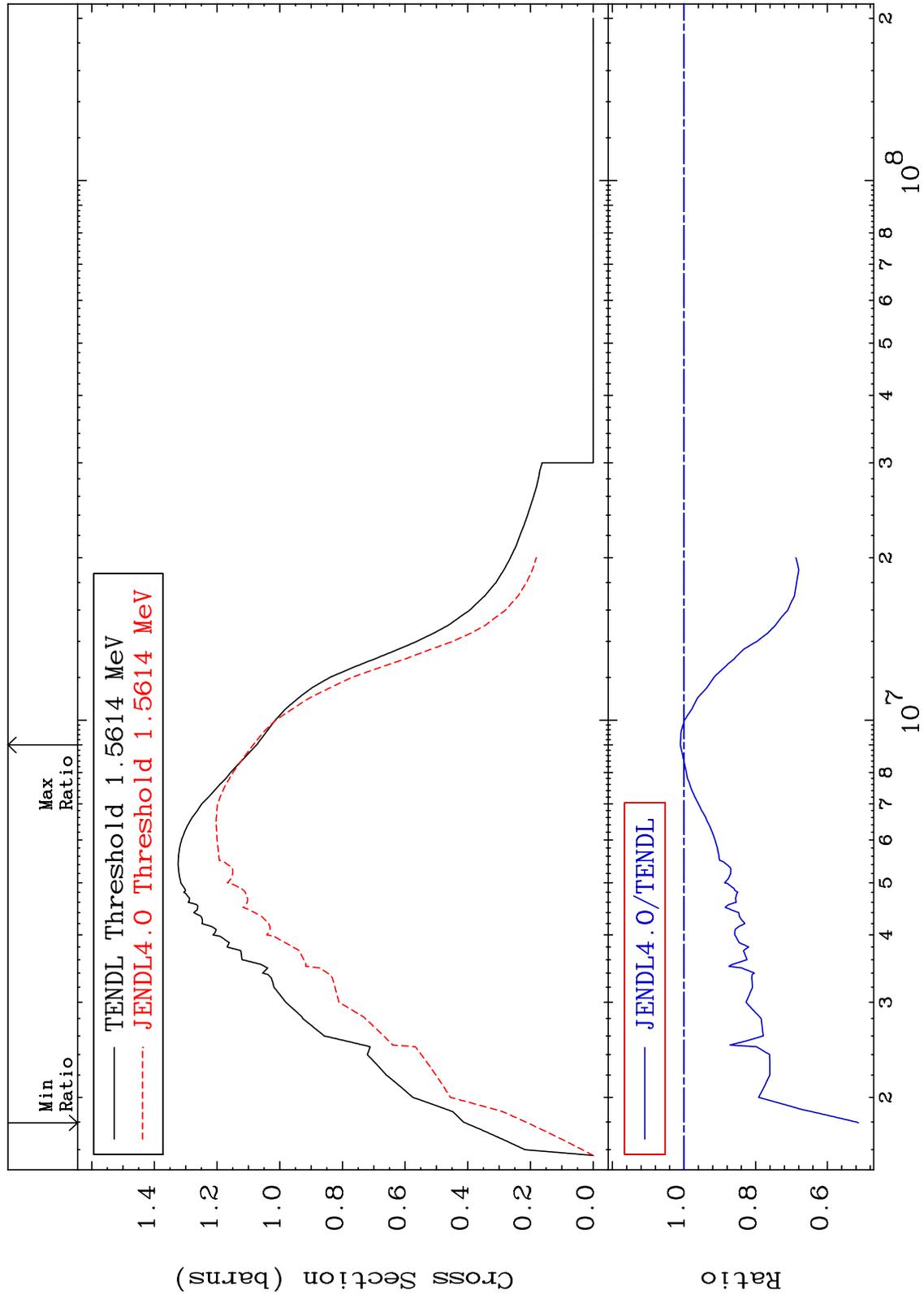
20-Ca-42
-99.76 To 9999. %



MAT 2031

Inelastic
Cross Section

20-Ca-42
-48.70 To 1.025 %



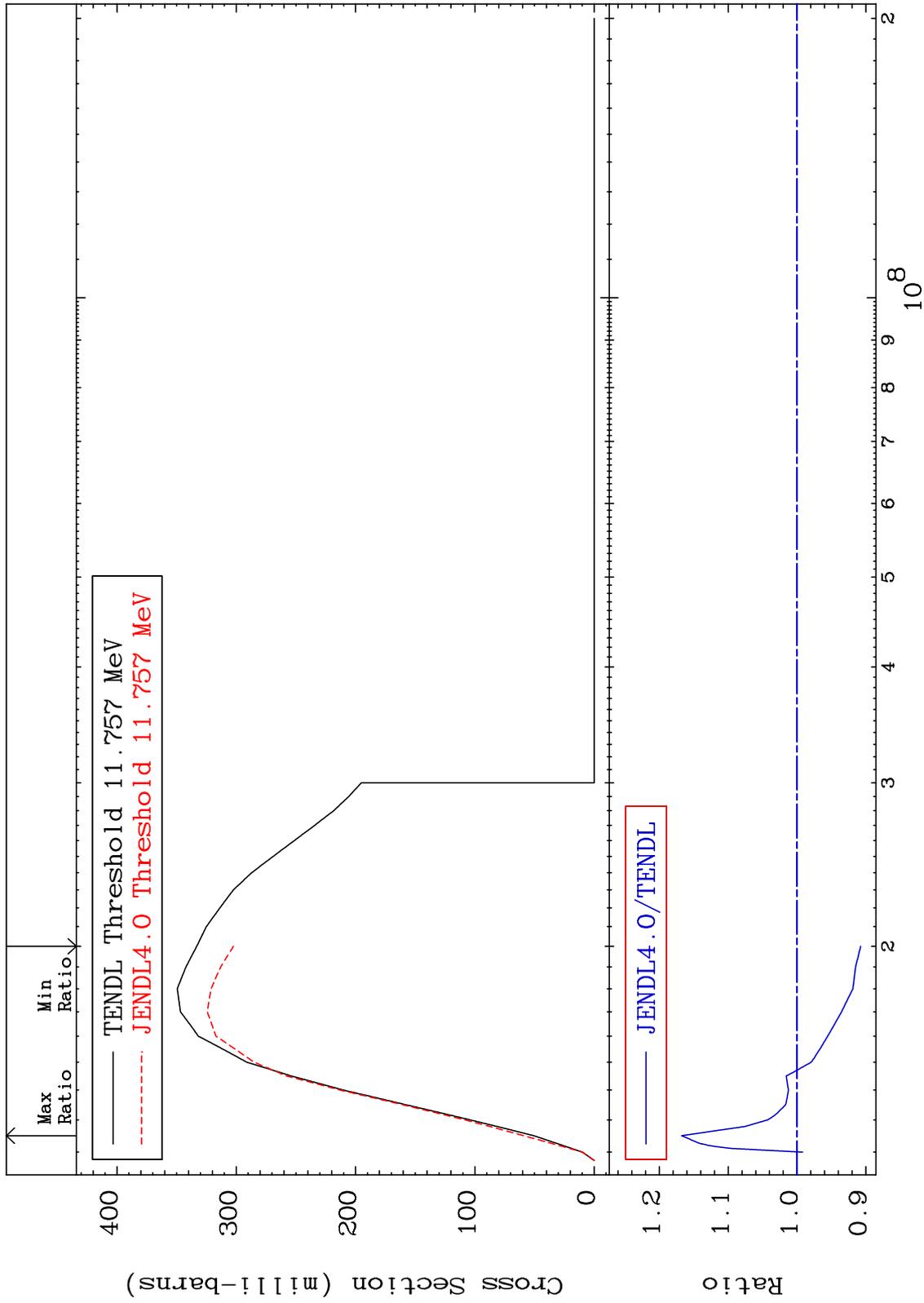
MAT 2031

(n,2n)

20-Ca-42

Cross Section

-9.241 To 16.74 %



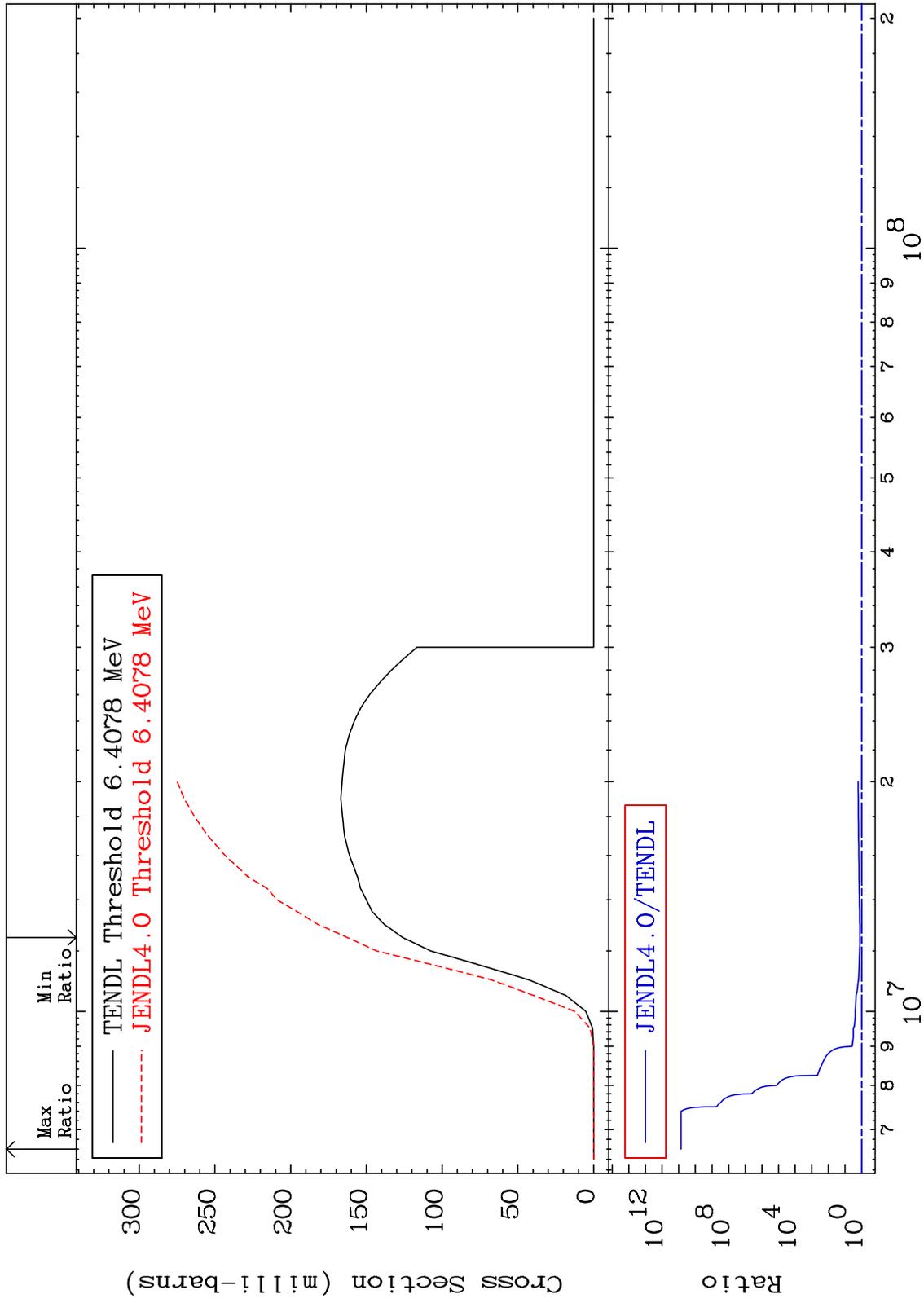
MAT 2031

(n,n') α

20-Ca-42

Cross Section

28.93 To 9999. %



MAT 2031

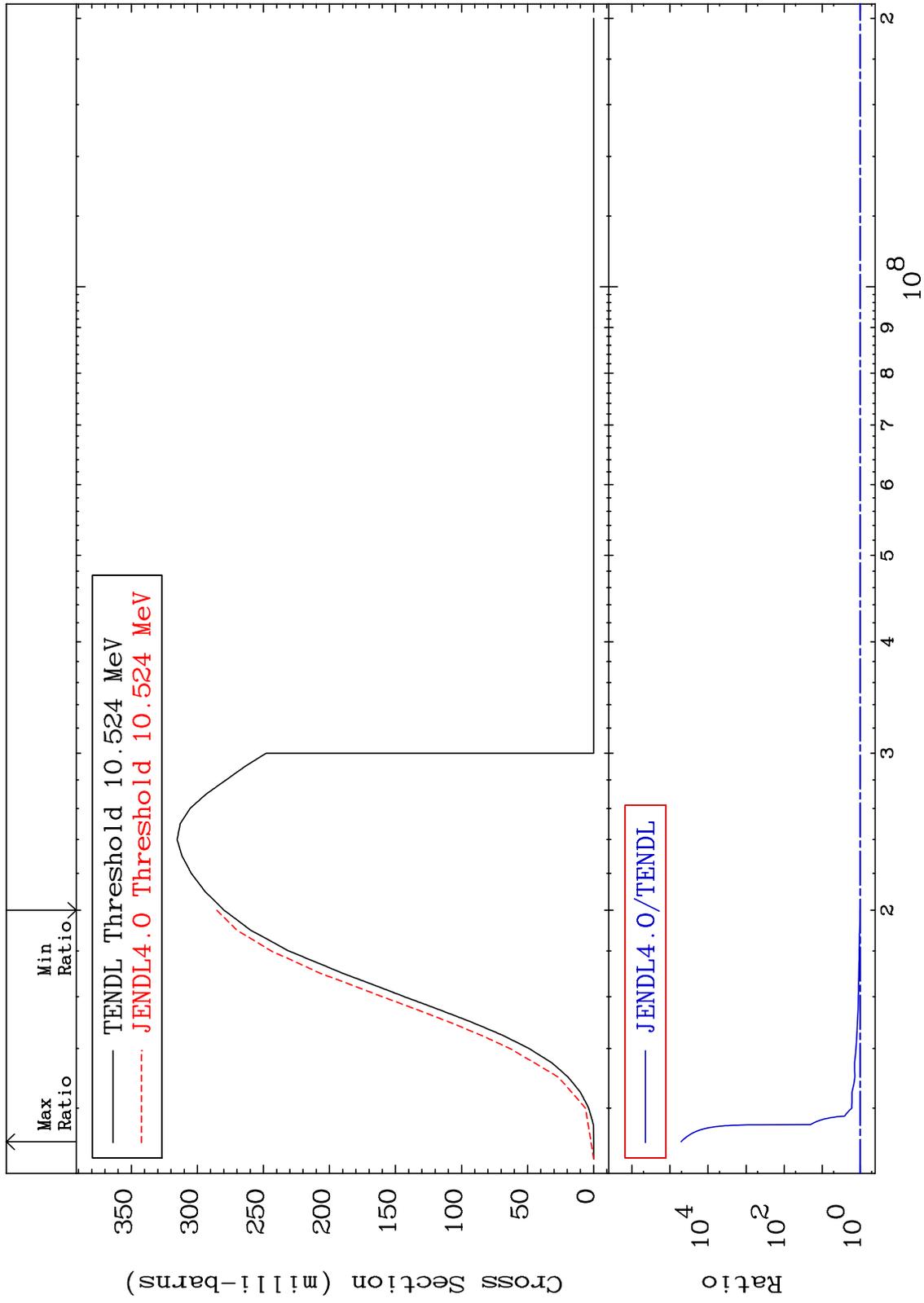
(n,n') p

20-Ca-42

Cross Section

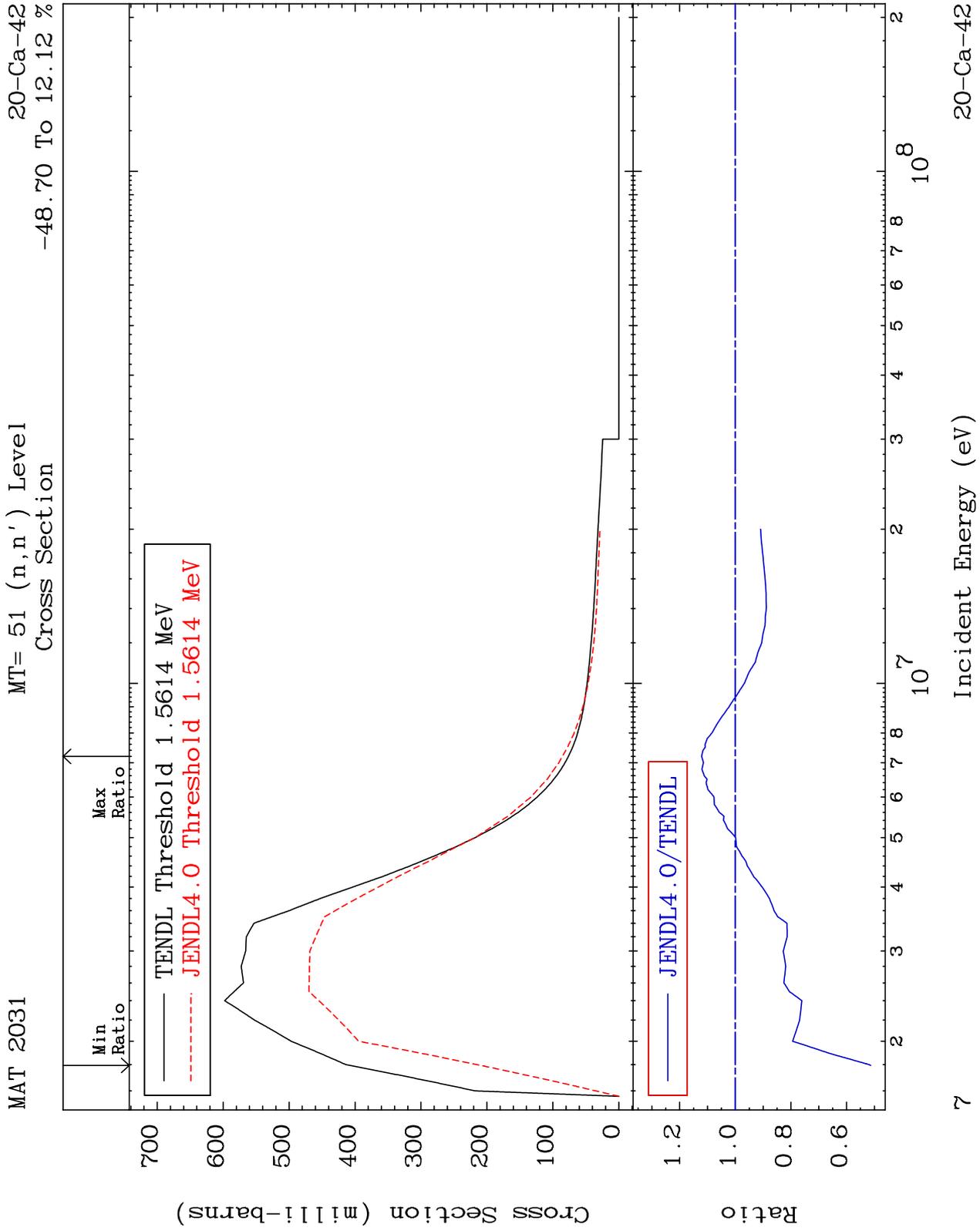
1.987

To 9999. %



Incident Energy (eV)

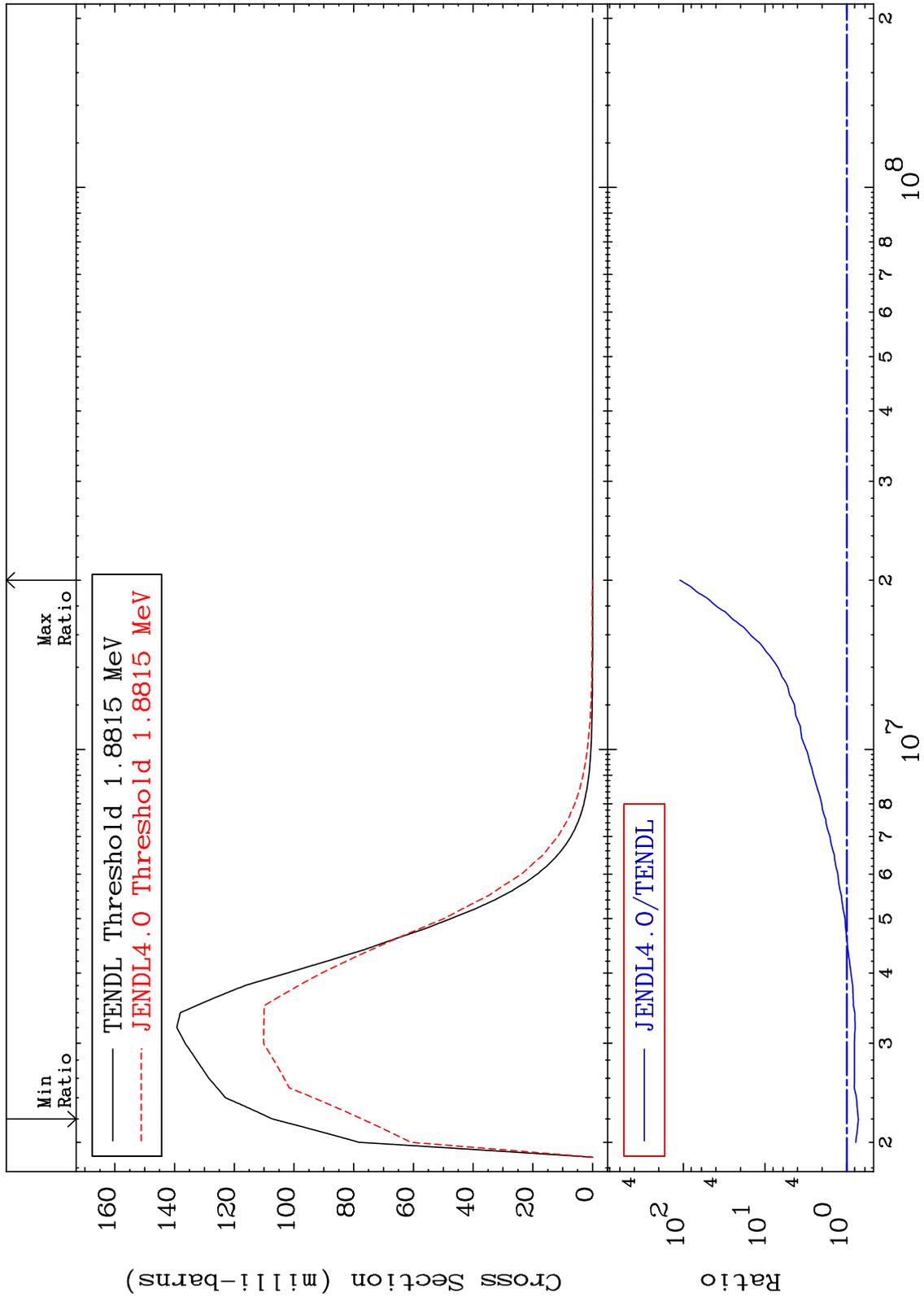
20-Ca-42



MAT 2031

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

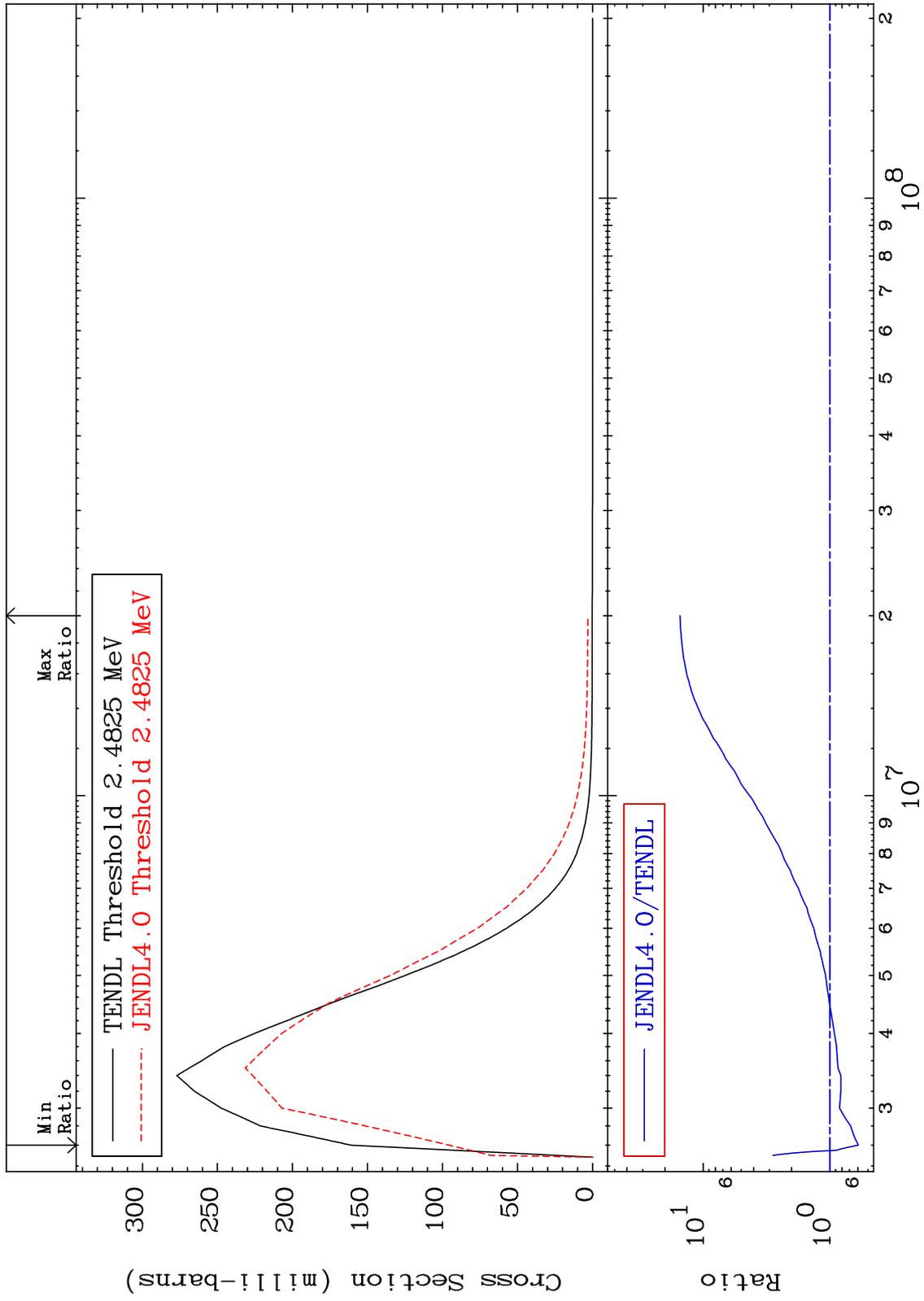
20-Ca-42
-28.01 To 9999. %



MAT 2031

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

20-Ca-42
-40.59 To 1425. %



9

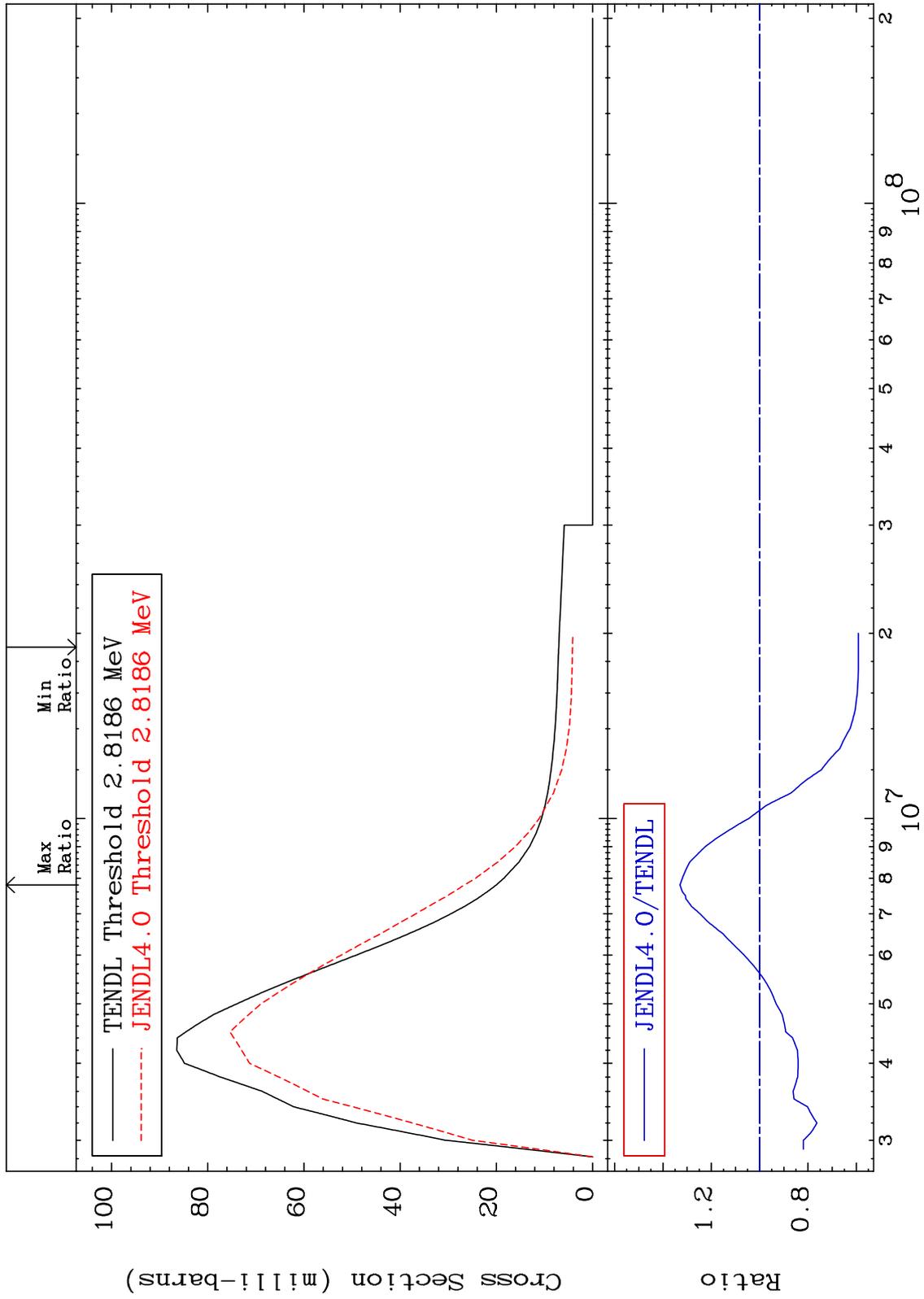
Incident Energy (eV)

20-Ca-42

MAT 2031

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

20-Ca-42
-40.84 To 32.98 %

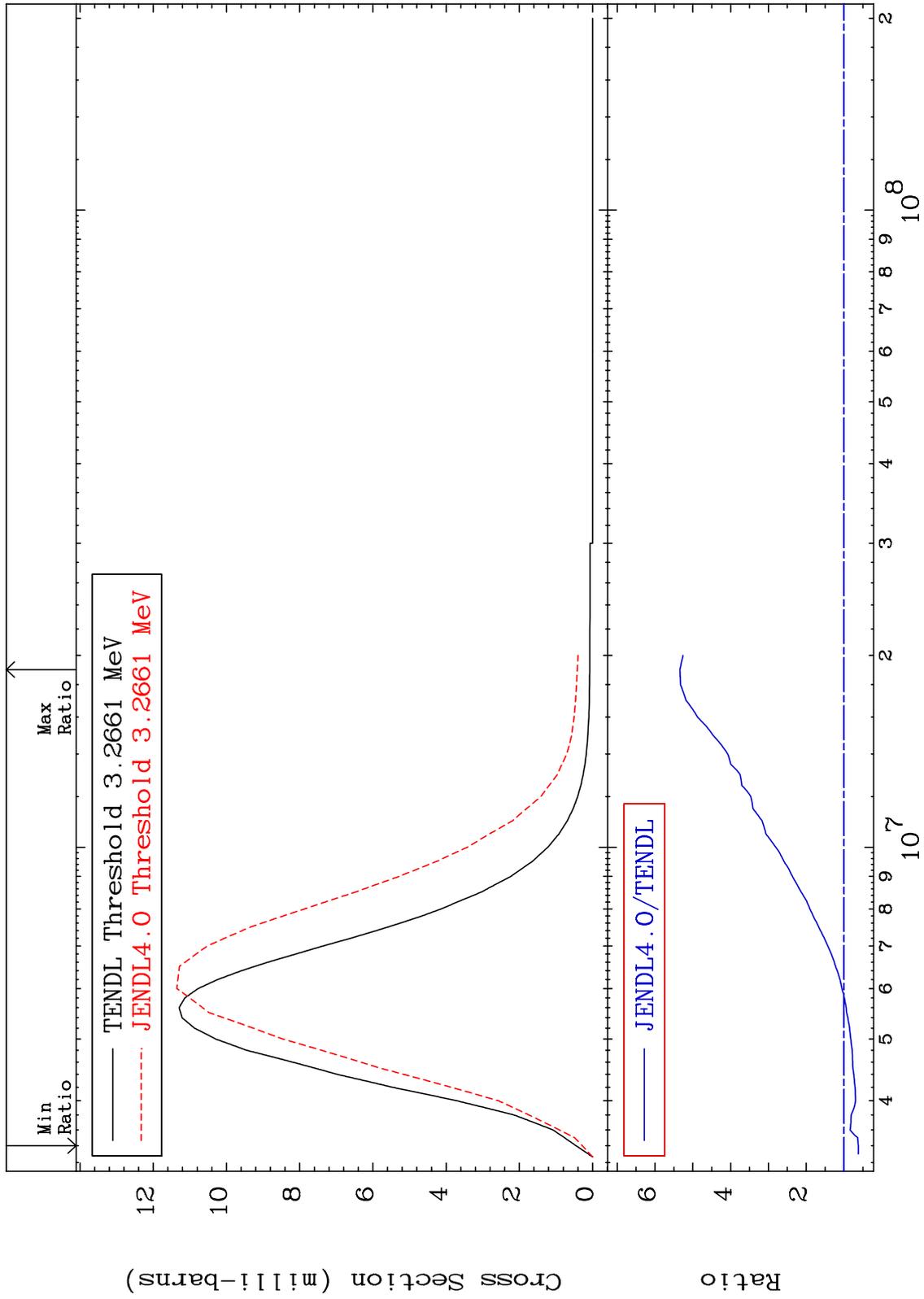


10

Incident Energy (eV)

20-Ca-42

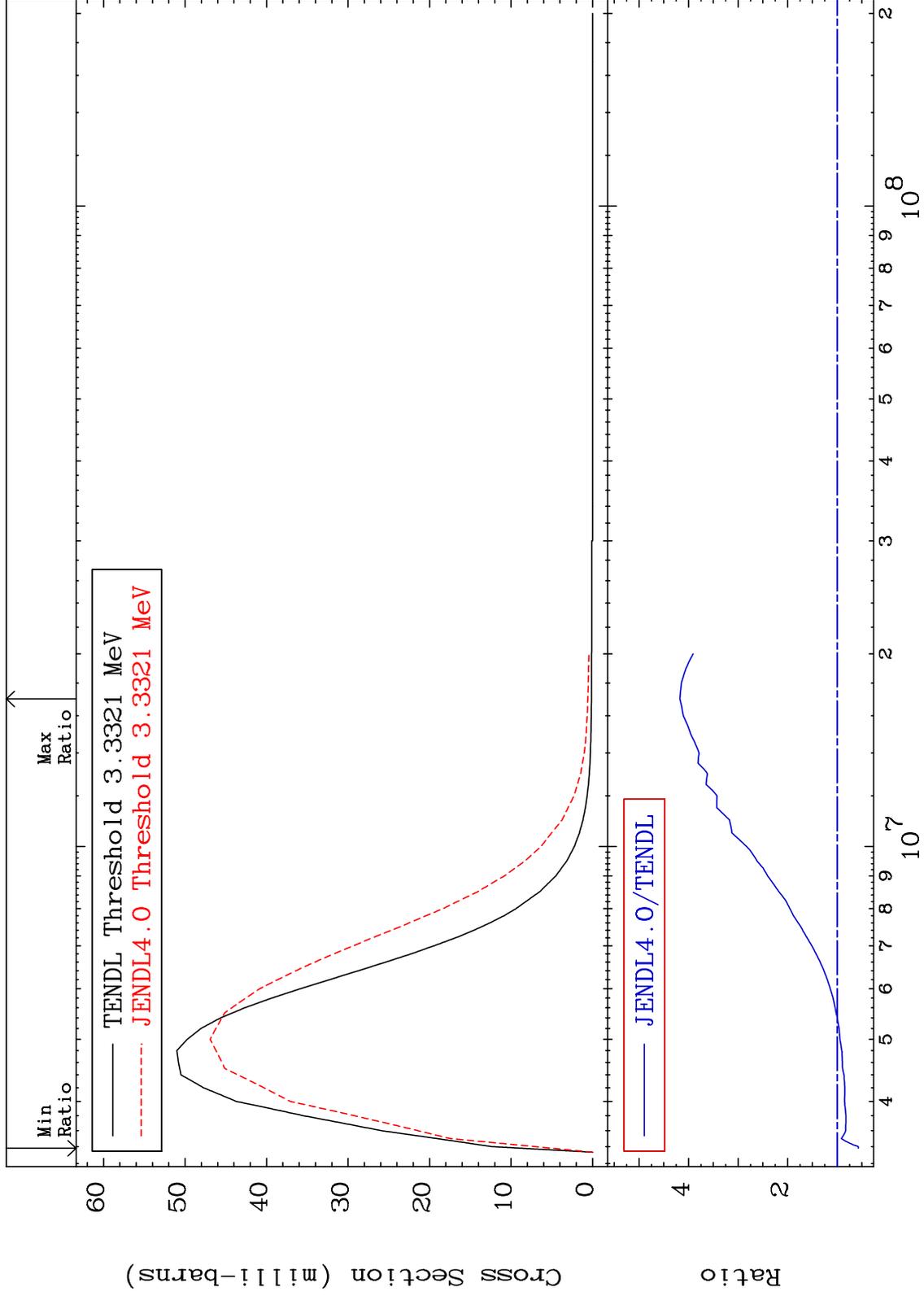
MAT 2031 MT= 55 (n,n') Level Cross Section -38.05 To 434.0 % 20-Ca-42



MAT 2031

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

20-Ca-42
-42.90 To 317.4 %



12

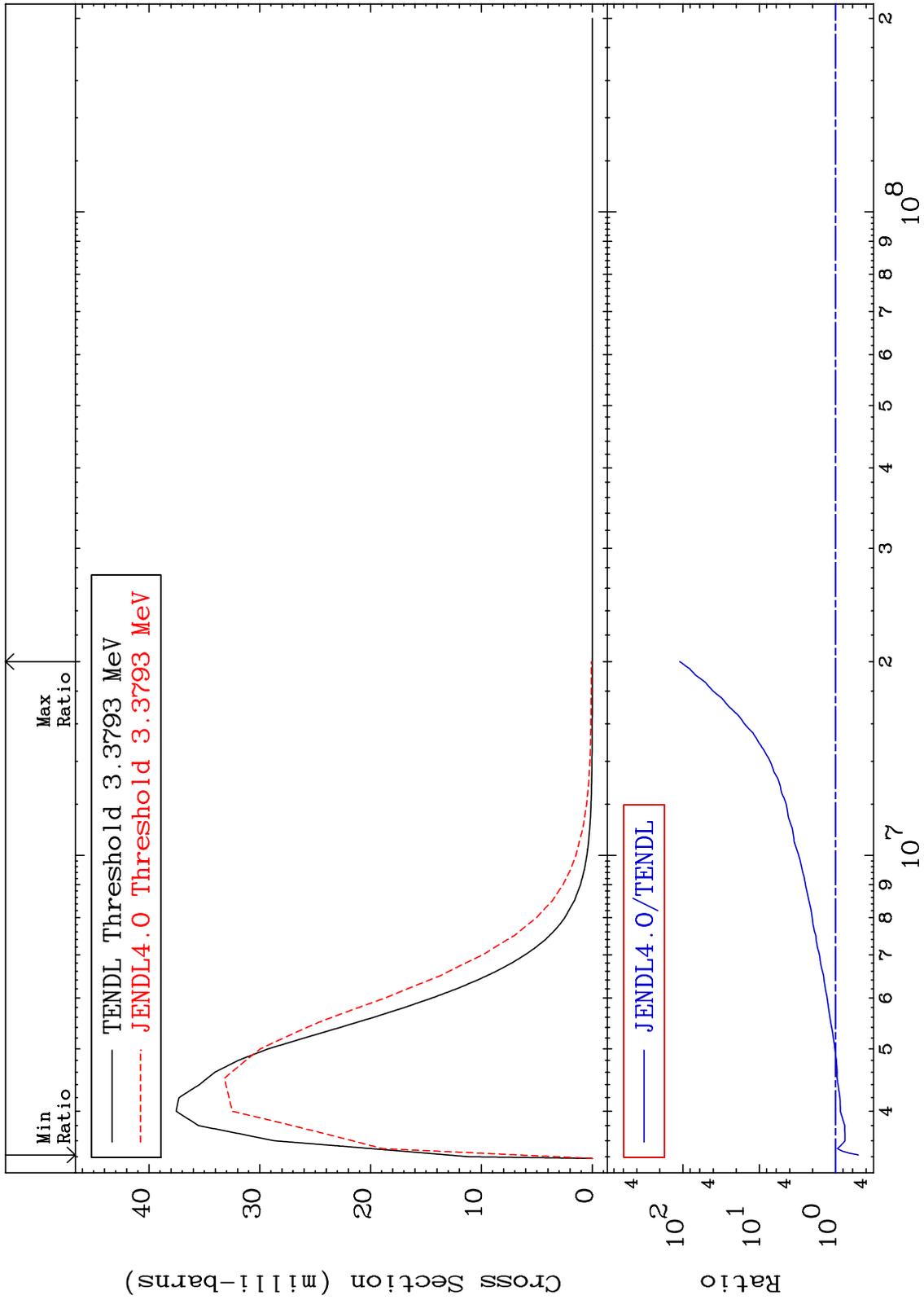
Incident Energy (eV)

20-Ca-42

MAT 2031

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

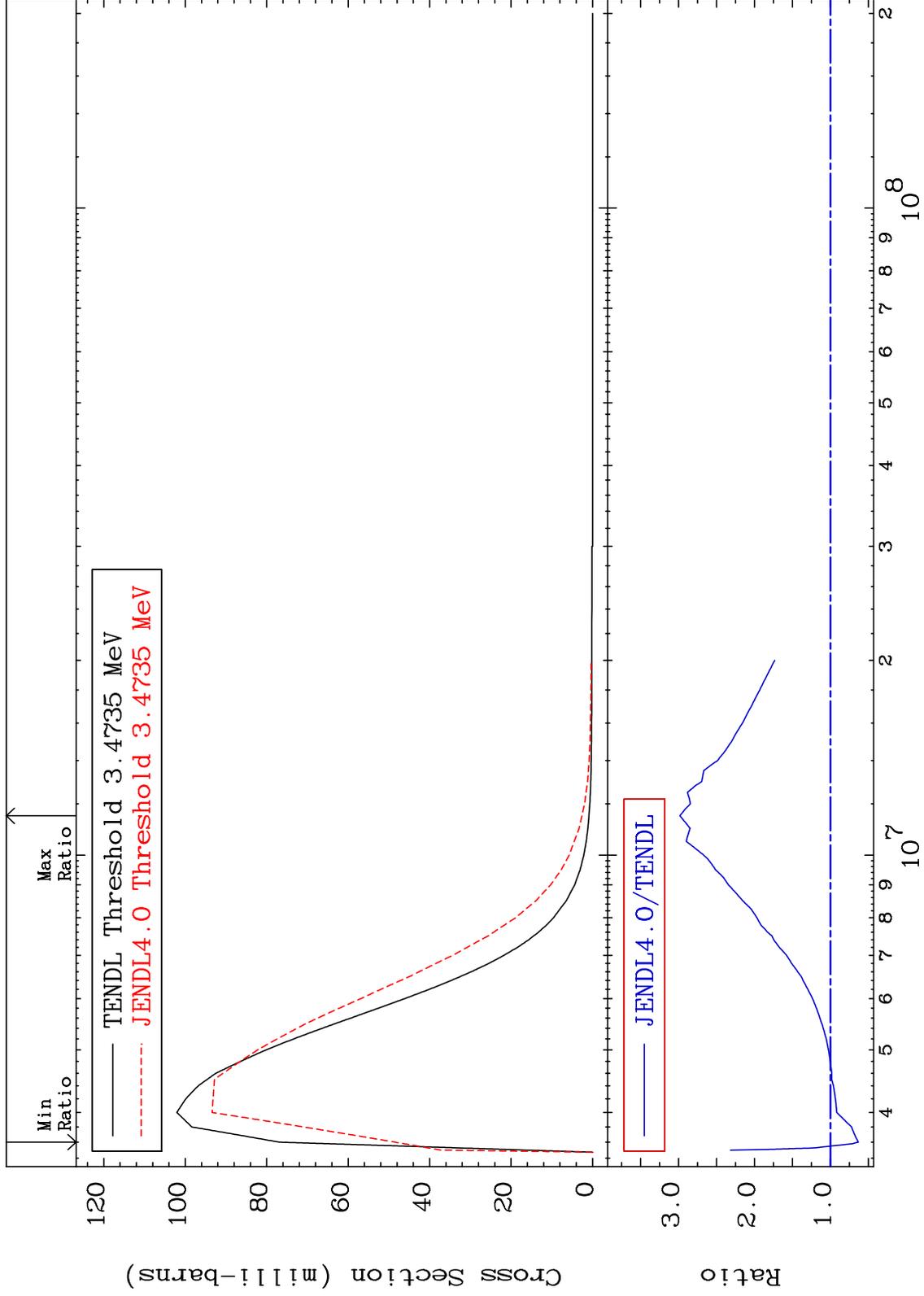
20-Ca-42
-49.47 To 9999. %



MAT 2031

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

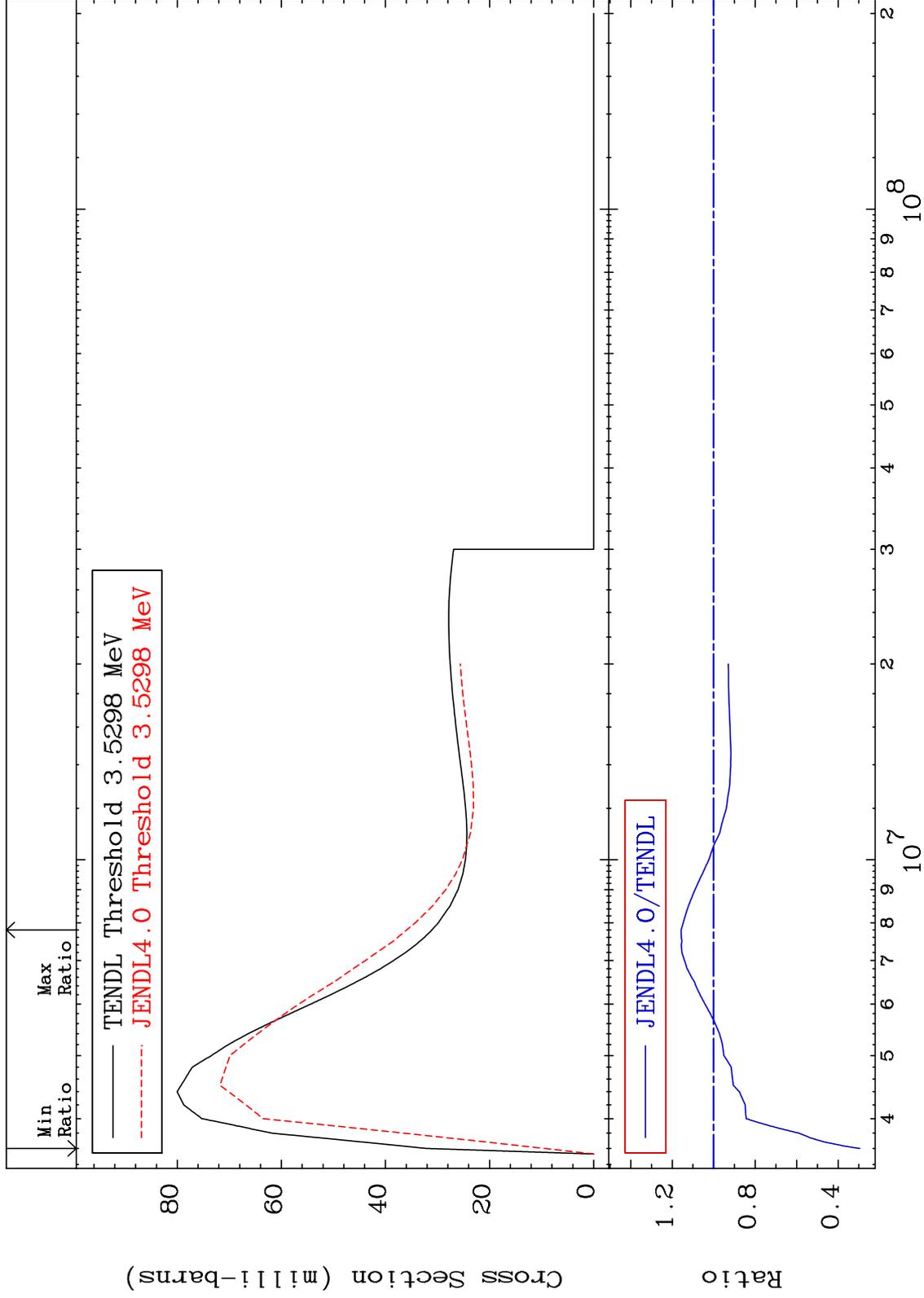
20-Ca-42
-36.95 To 198.2 %



MAT 2031

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

20-Ca-42
-70.50 To 15.71 %



15

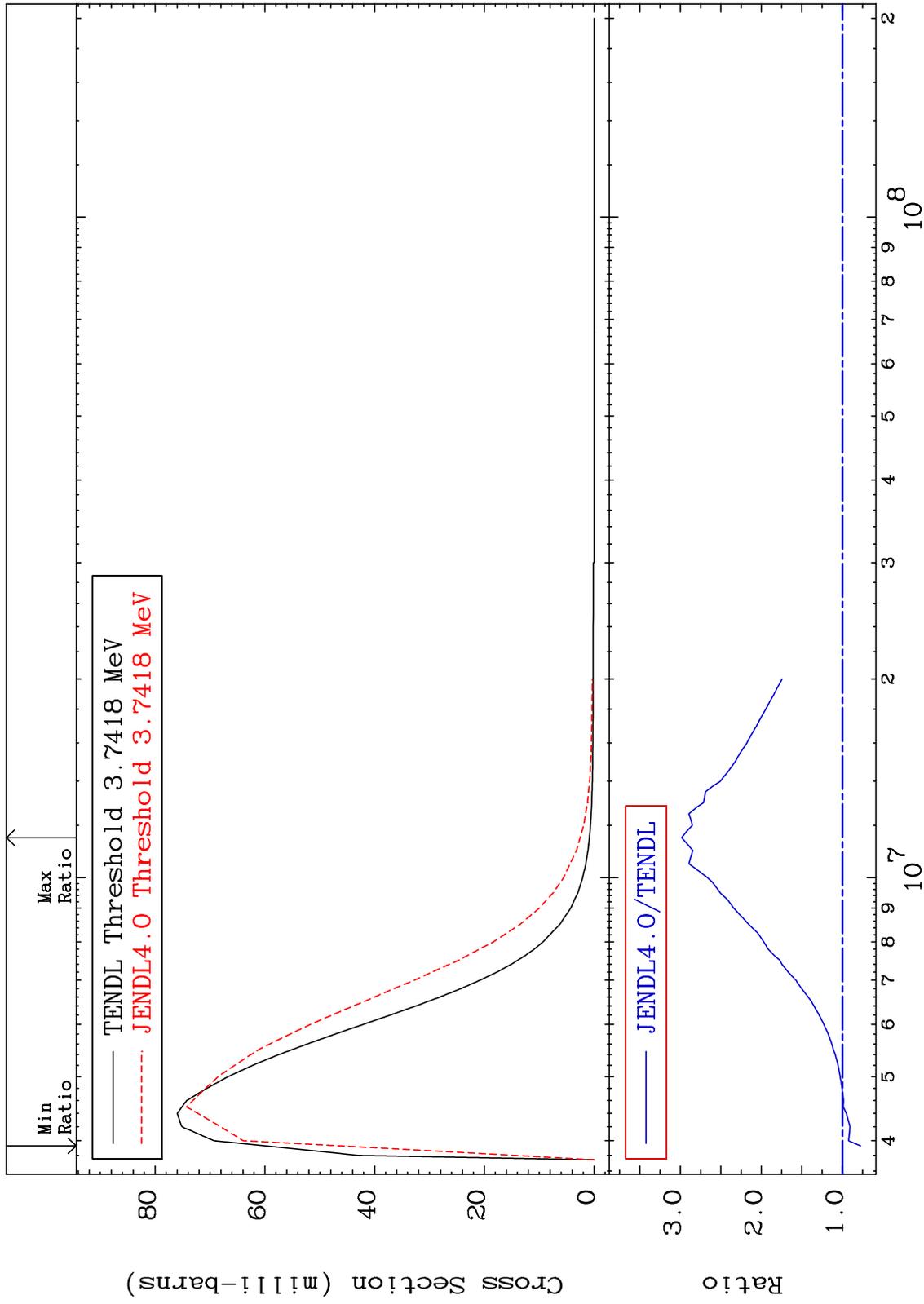
Incident Energy (eV)

20-Ca-42

MAT 2031

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

20-Ca-42
-22.59 To 198.3 %

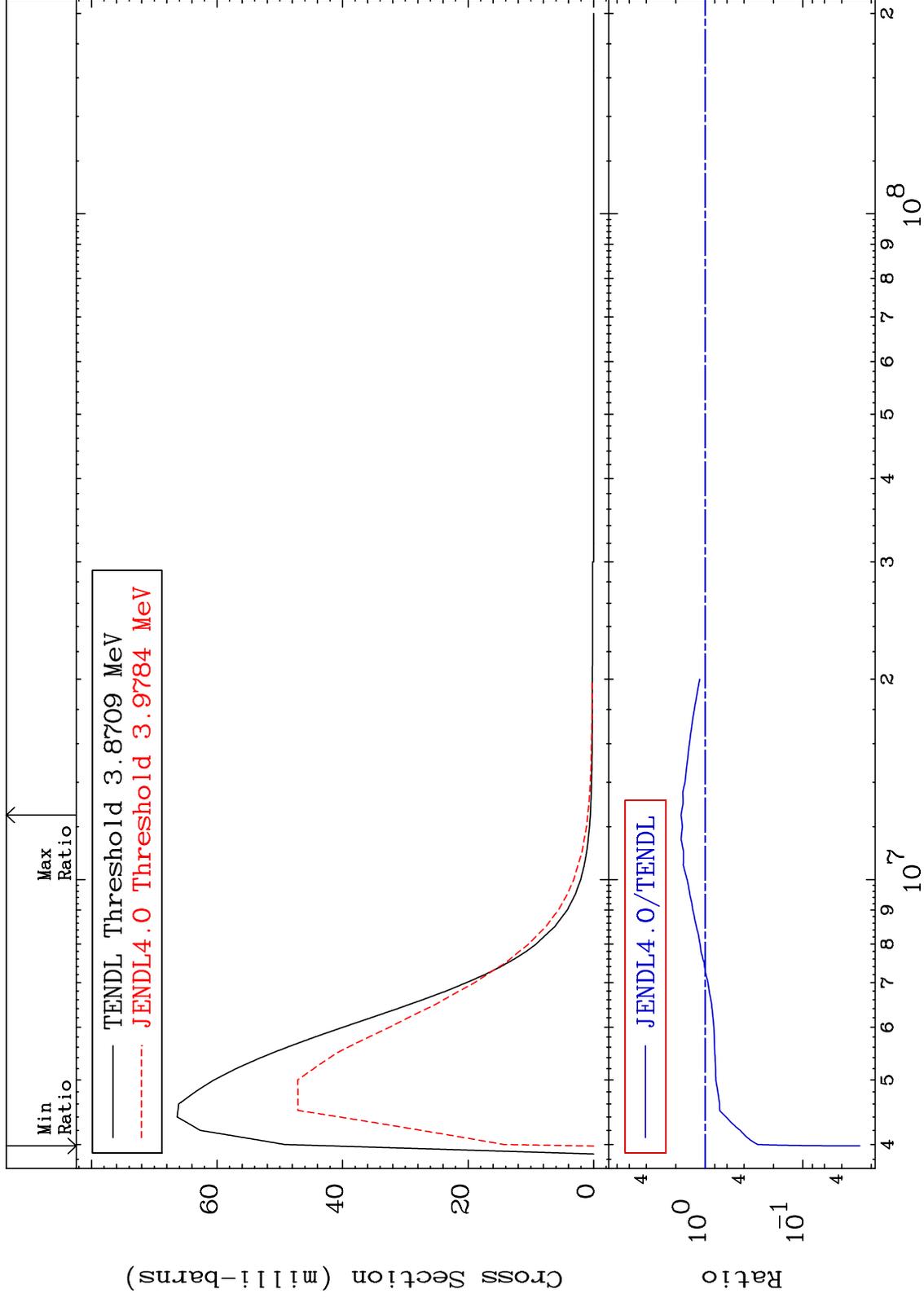


16

MAT 2031

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

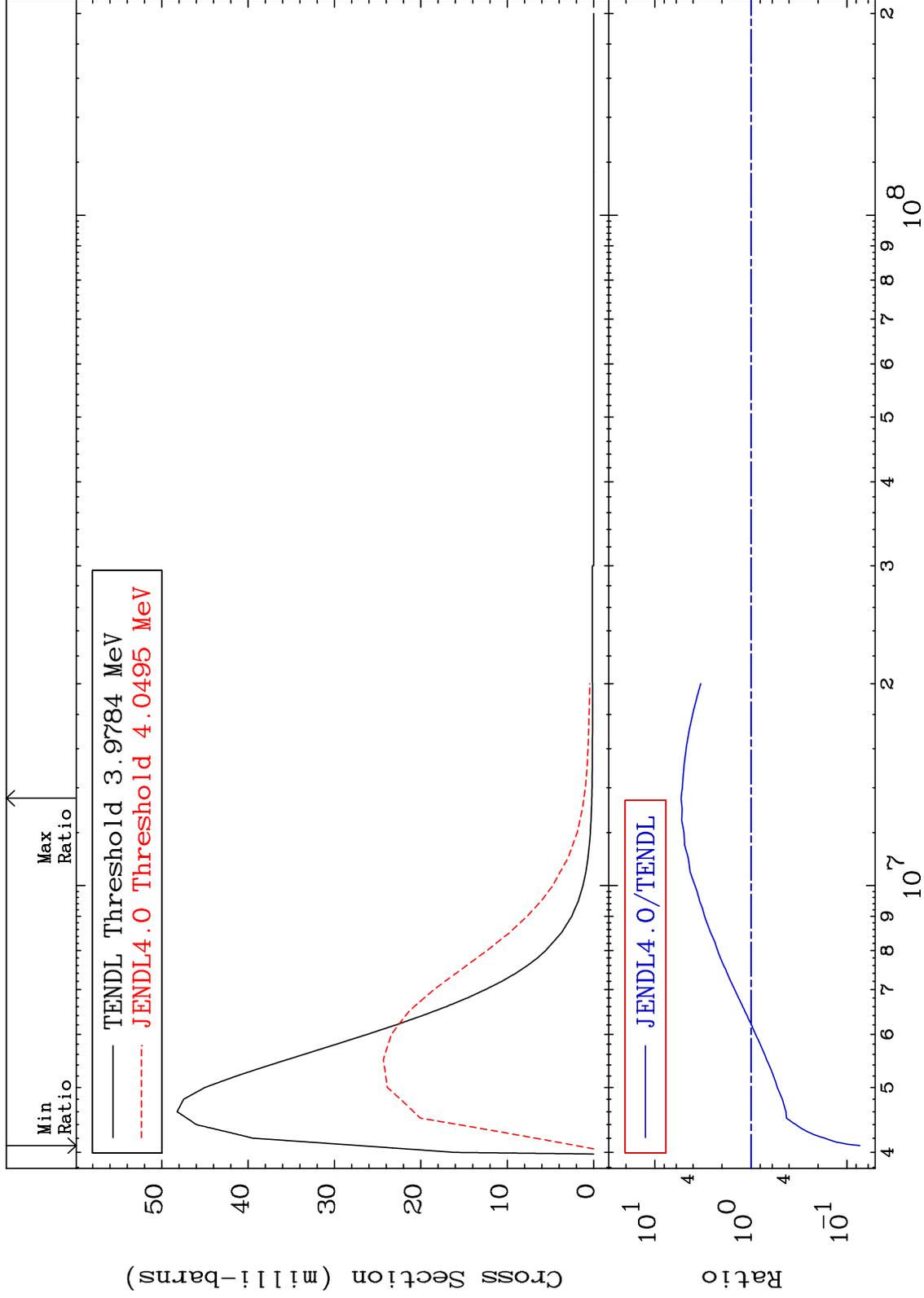
20-Ca-42
-97.39 To 76.34 %



MAT 2031

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

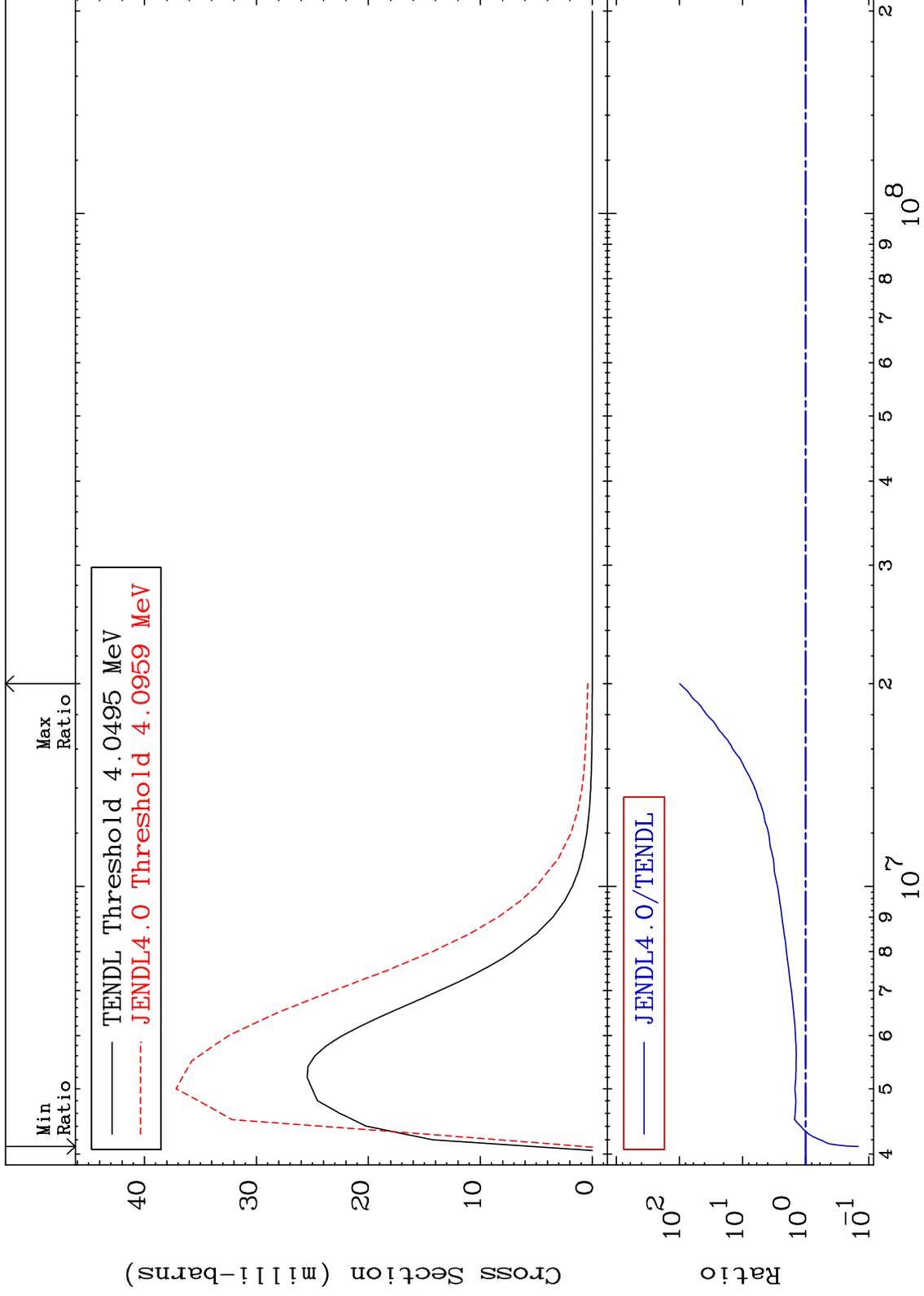
20-Ca-42
-92.67 To 432.8 %



MAT 2031

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

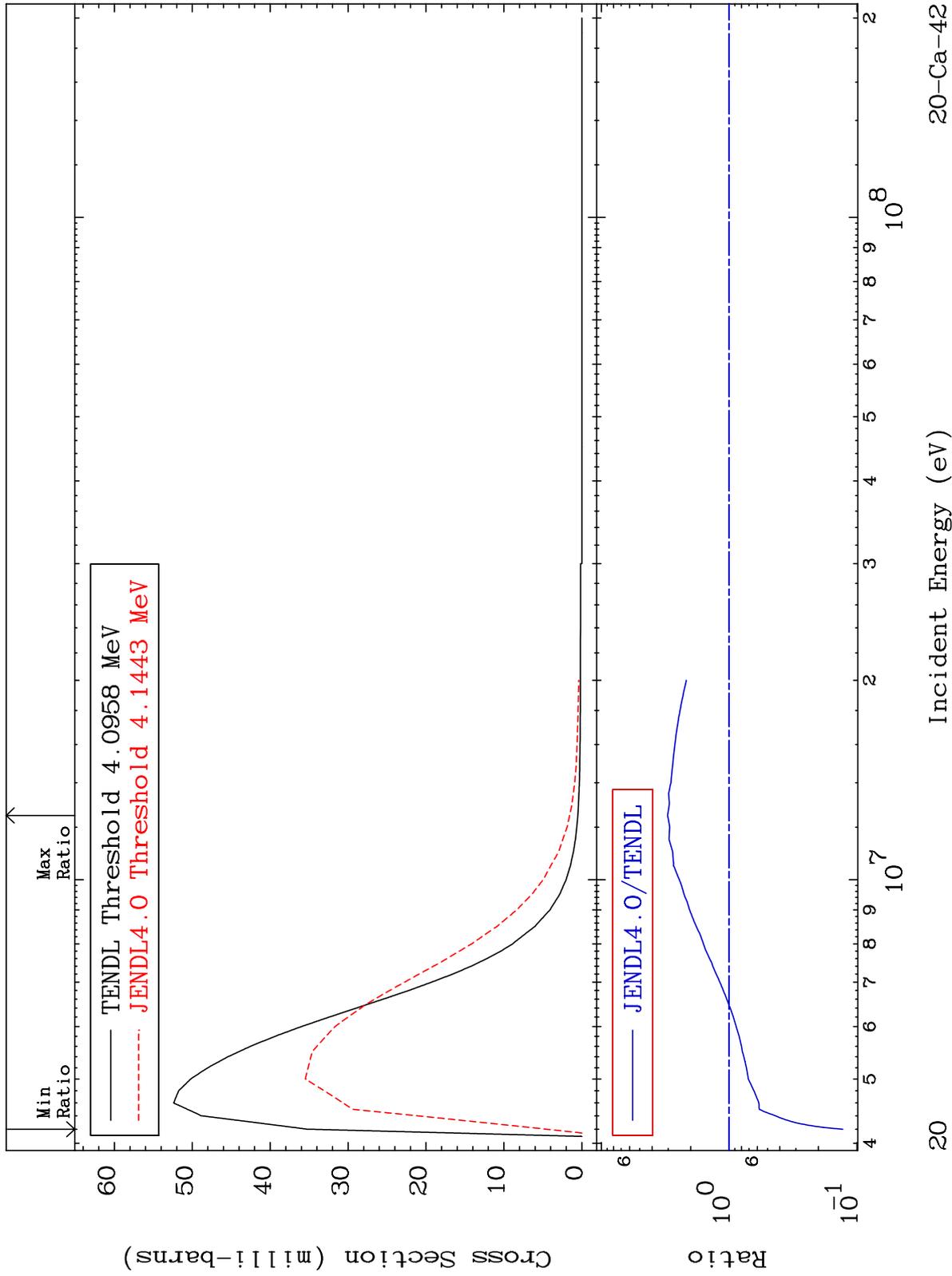
20-Ca-42
-85.31 To 9825. %



MAT 2031

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

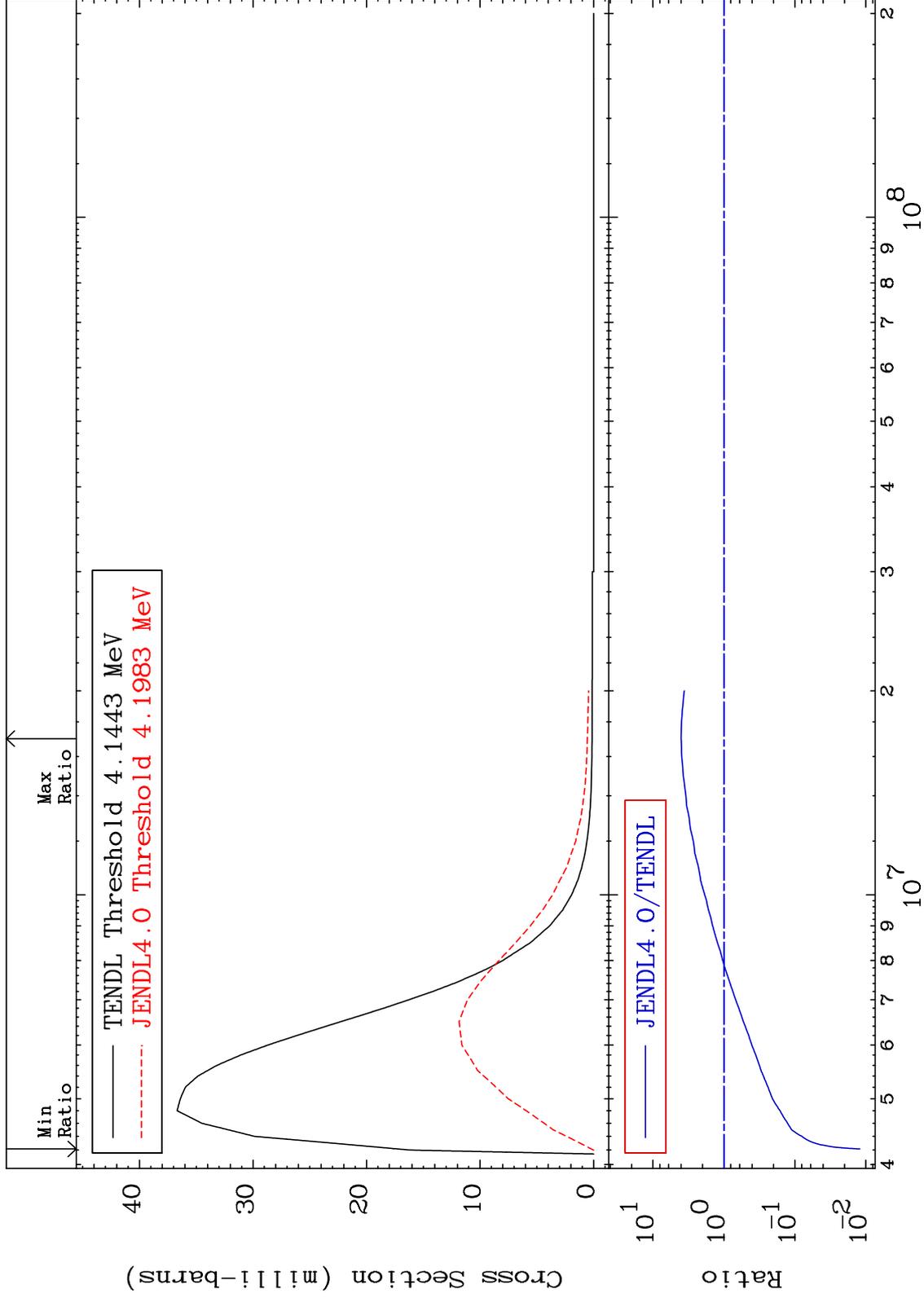
20-Ca-42
-87.13 To 202.6 %



MAT 2031

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

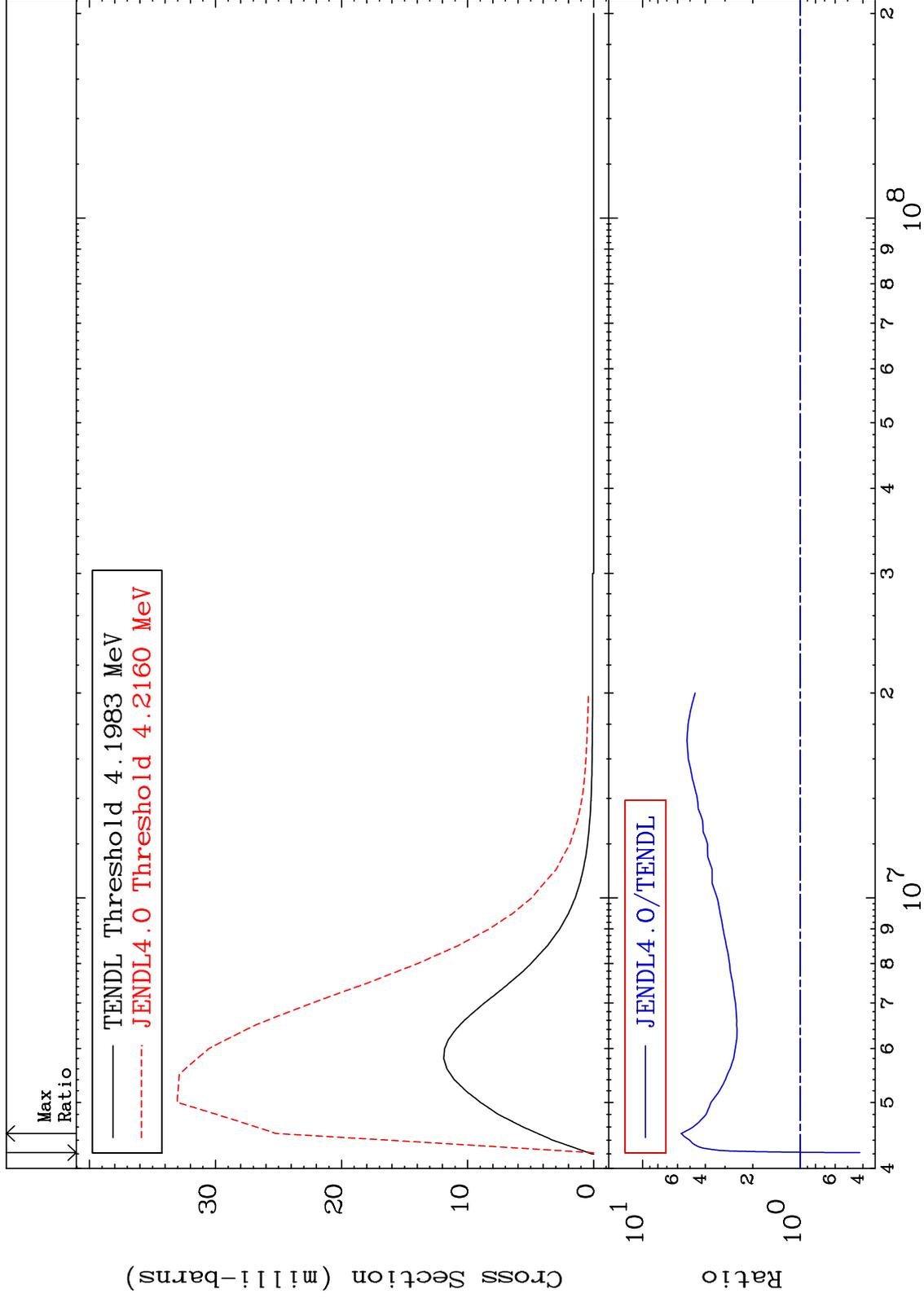
20-Ca-42
-98.79 To 300.5 %



MAT 2031

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

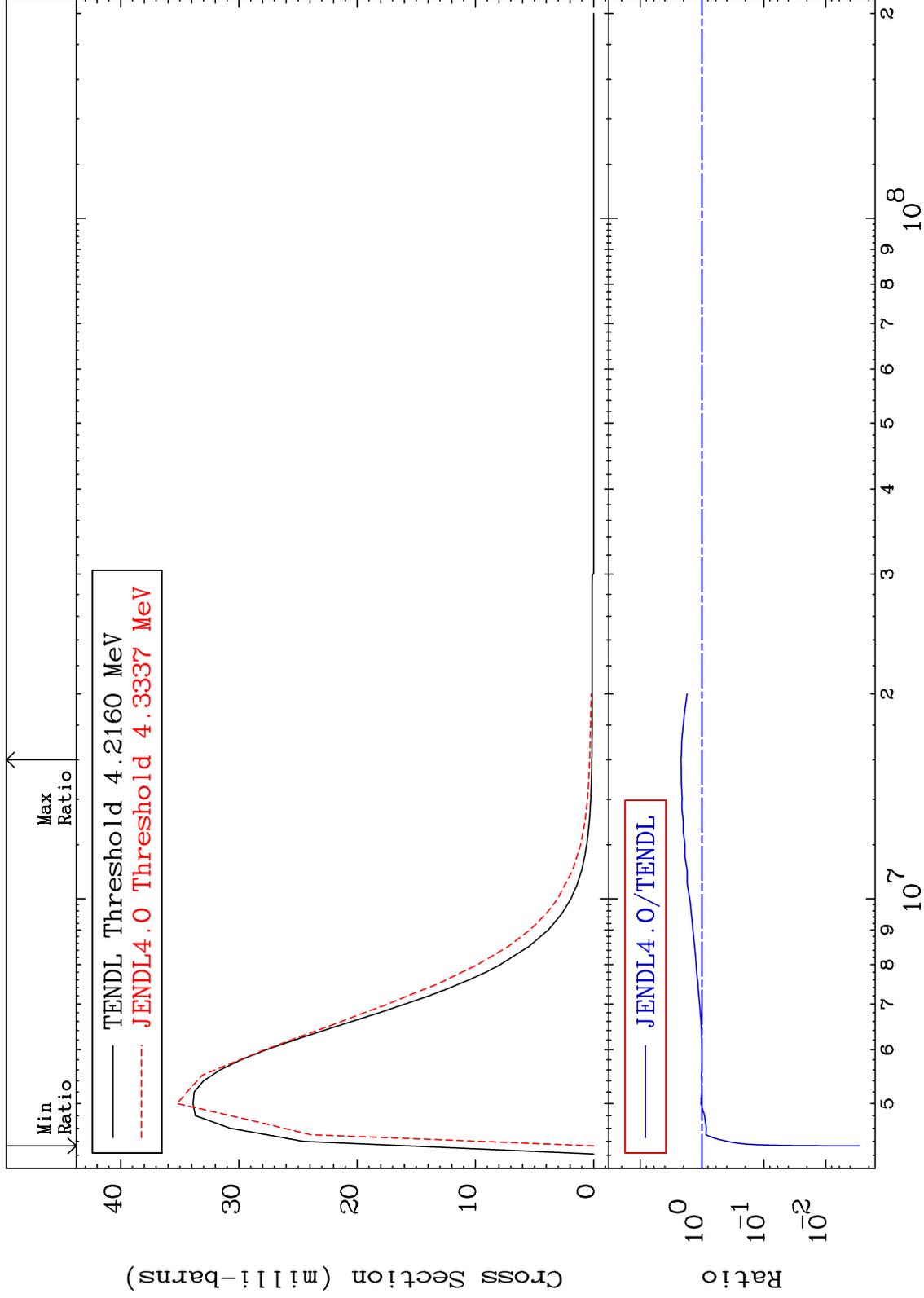
20-Ca-42
-58.21 To 469.1 %



MAT 2031

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

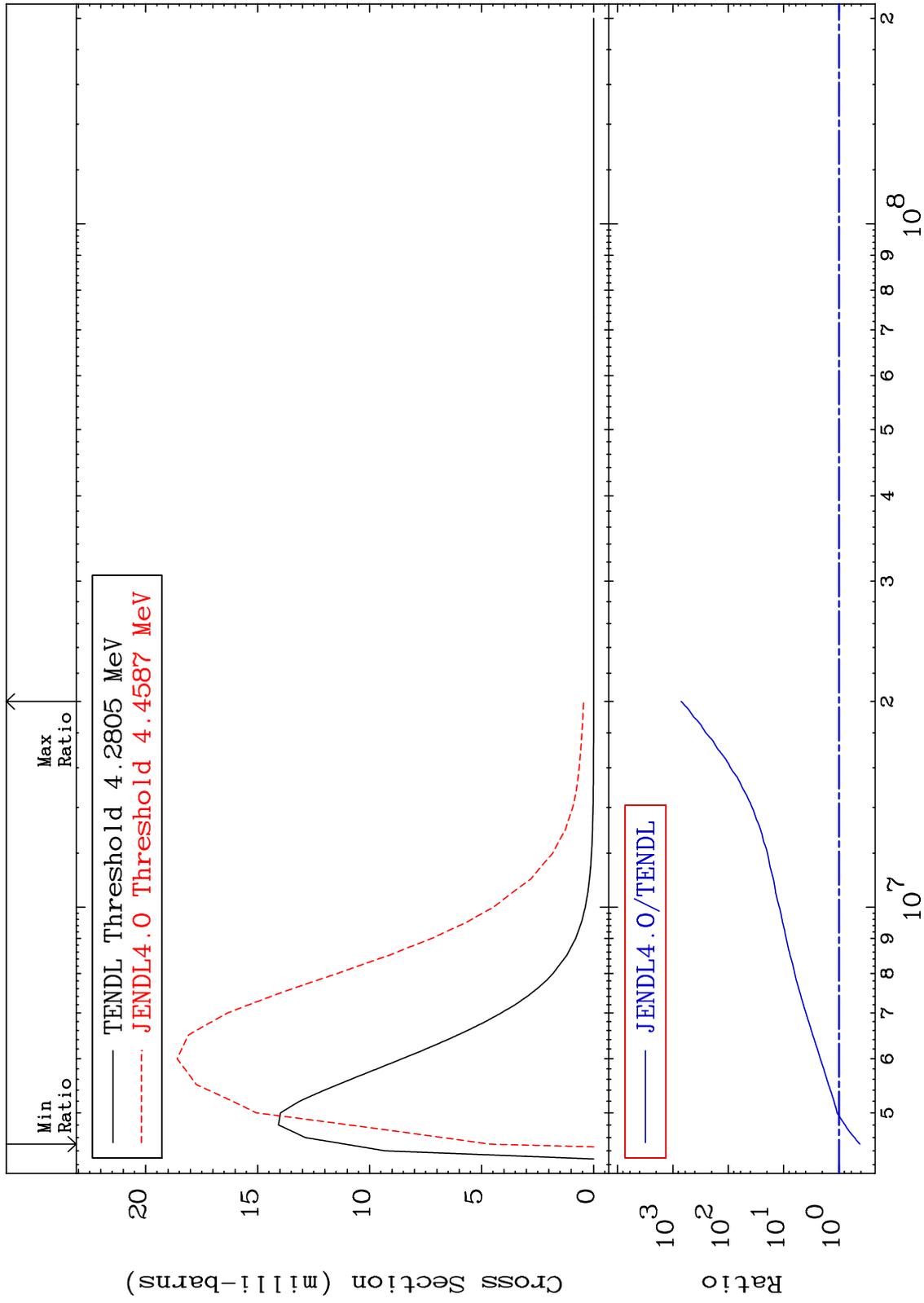
20-Ca-42
-99.72 To 117.9 %



MAT 2031

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

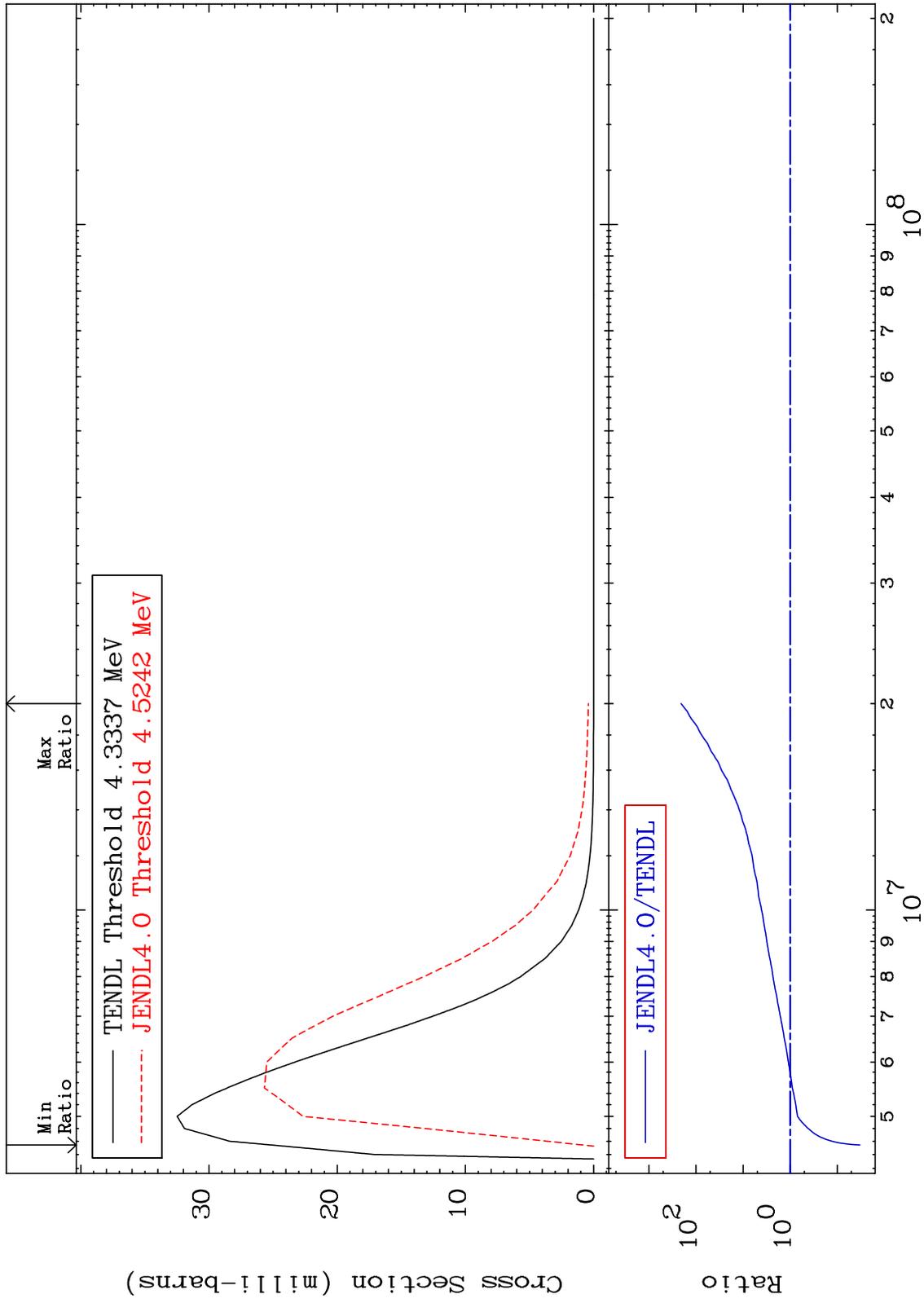
20-Ca-42
-58.08 To 9999. %



MAT 2031

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

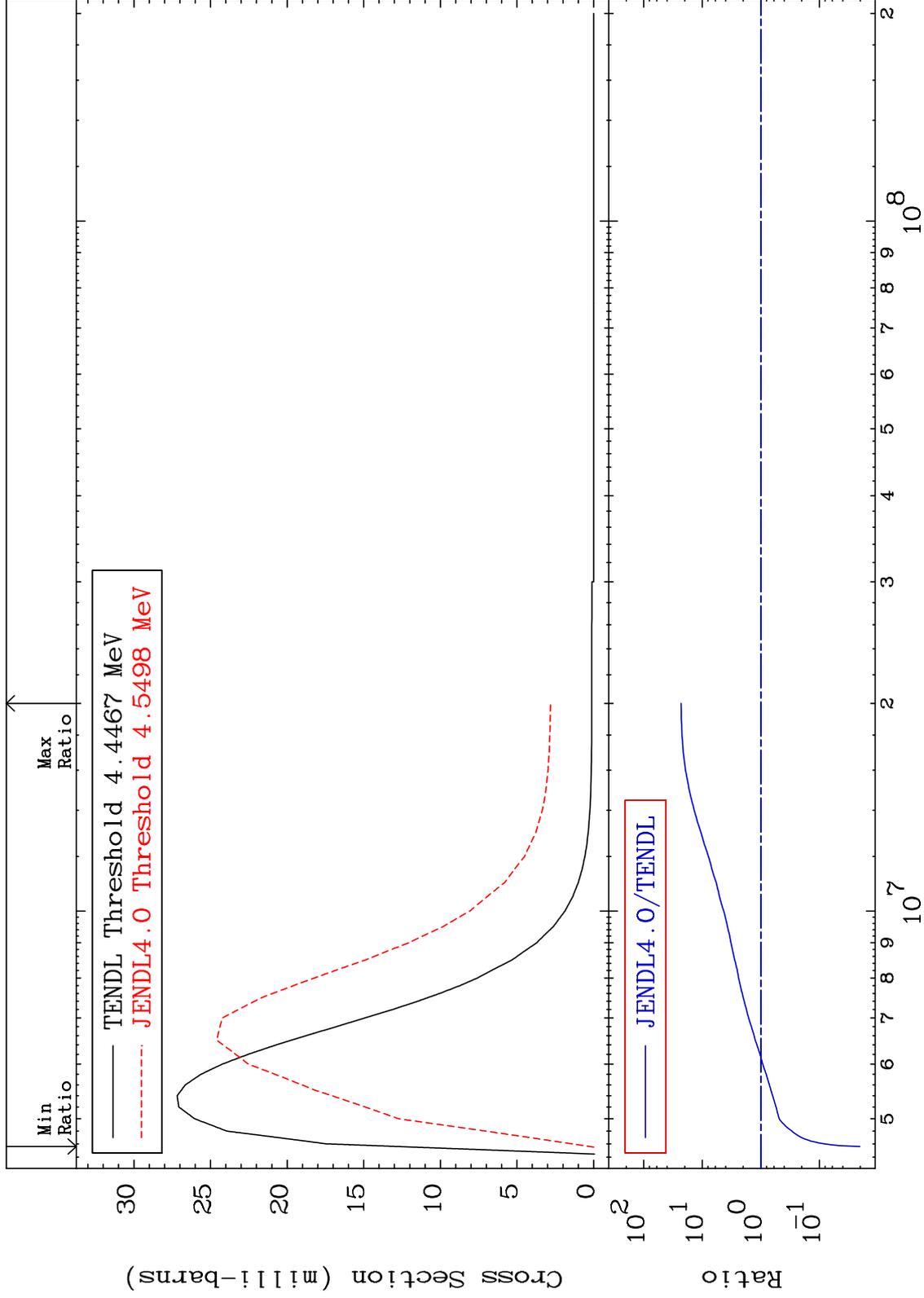
20-Ca-42
-96.70 To 9999. %



MAT 2031

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

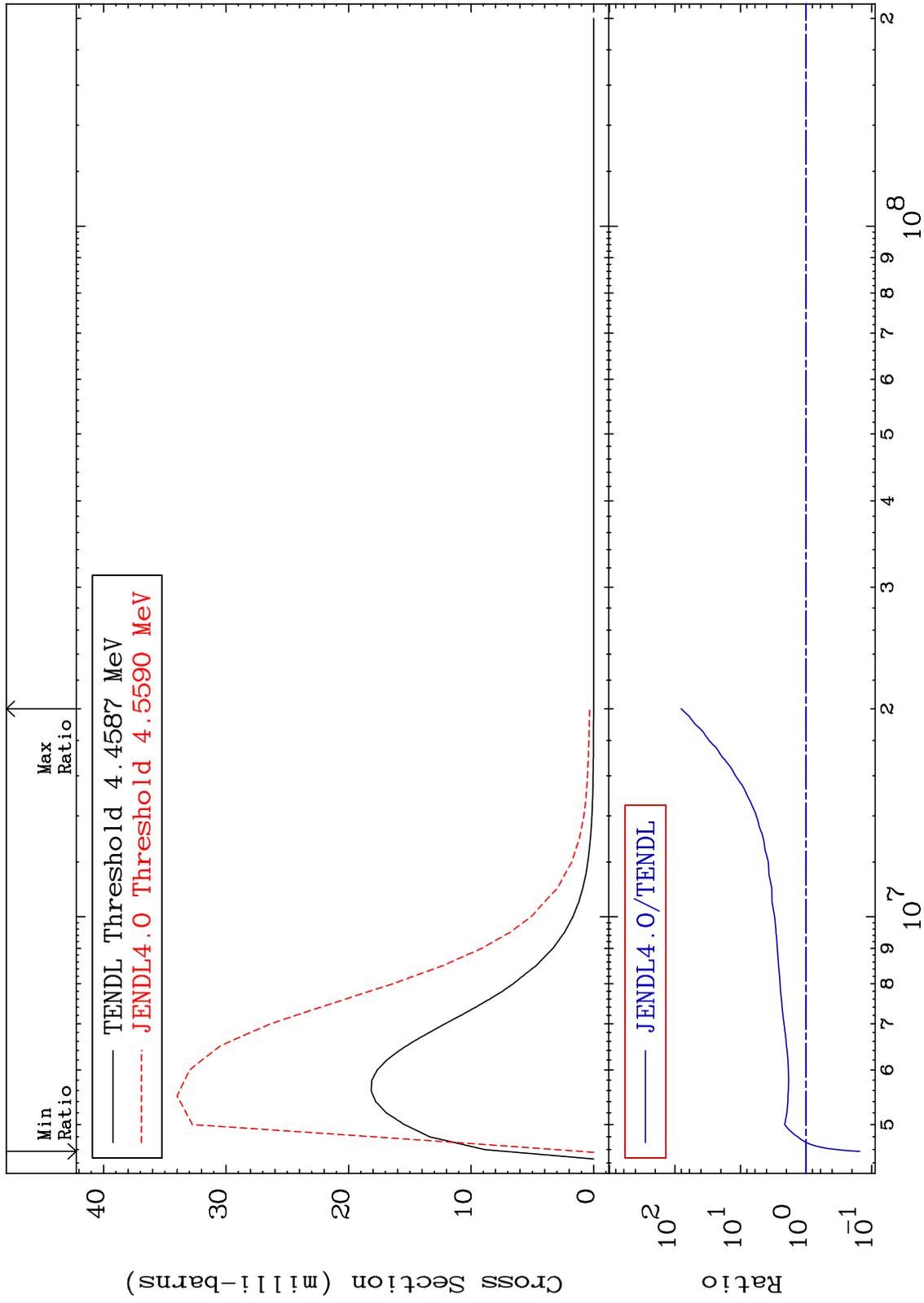
20-Ca-42
-97.96 To 2200. %



MAT 2031

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

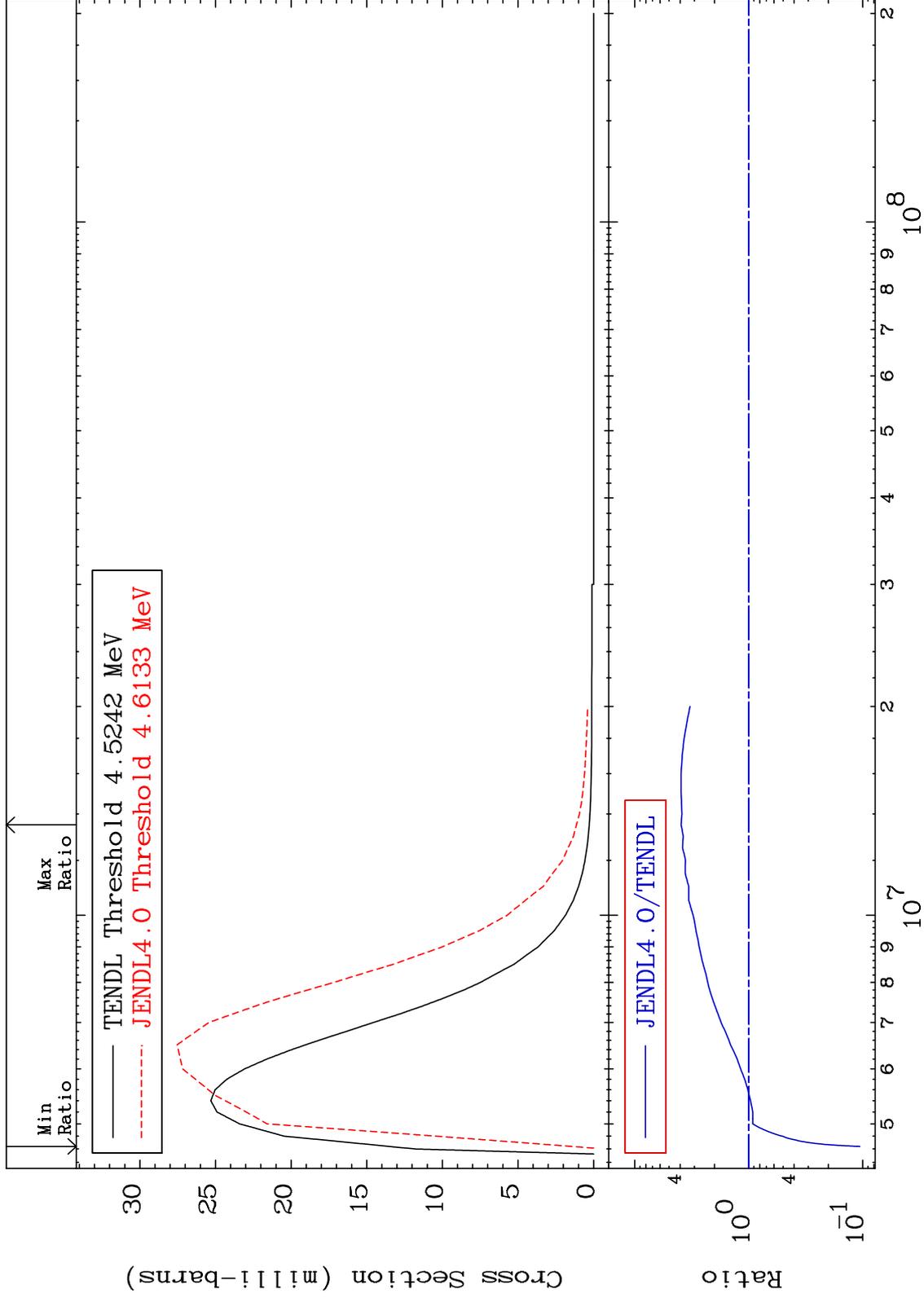
20-Ca-42
-84.90 To 7940. %



MAT 2031

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

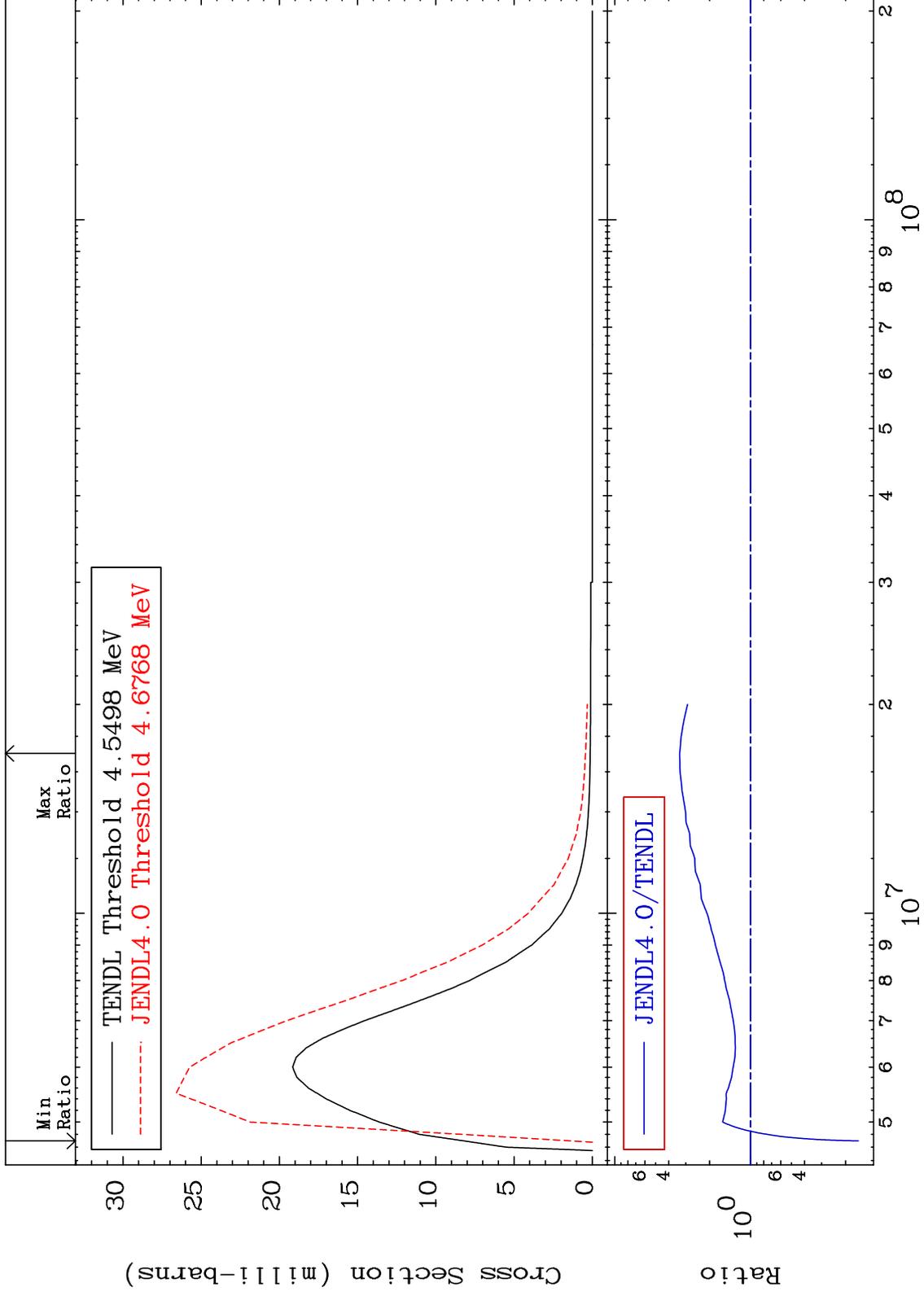
20-Ca-42
-89.42 To 291.9 %



MAT 2031

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

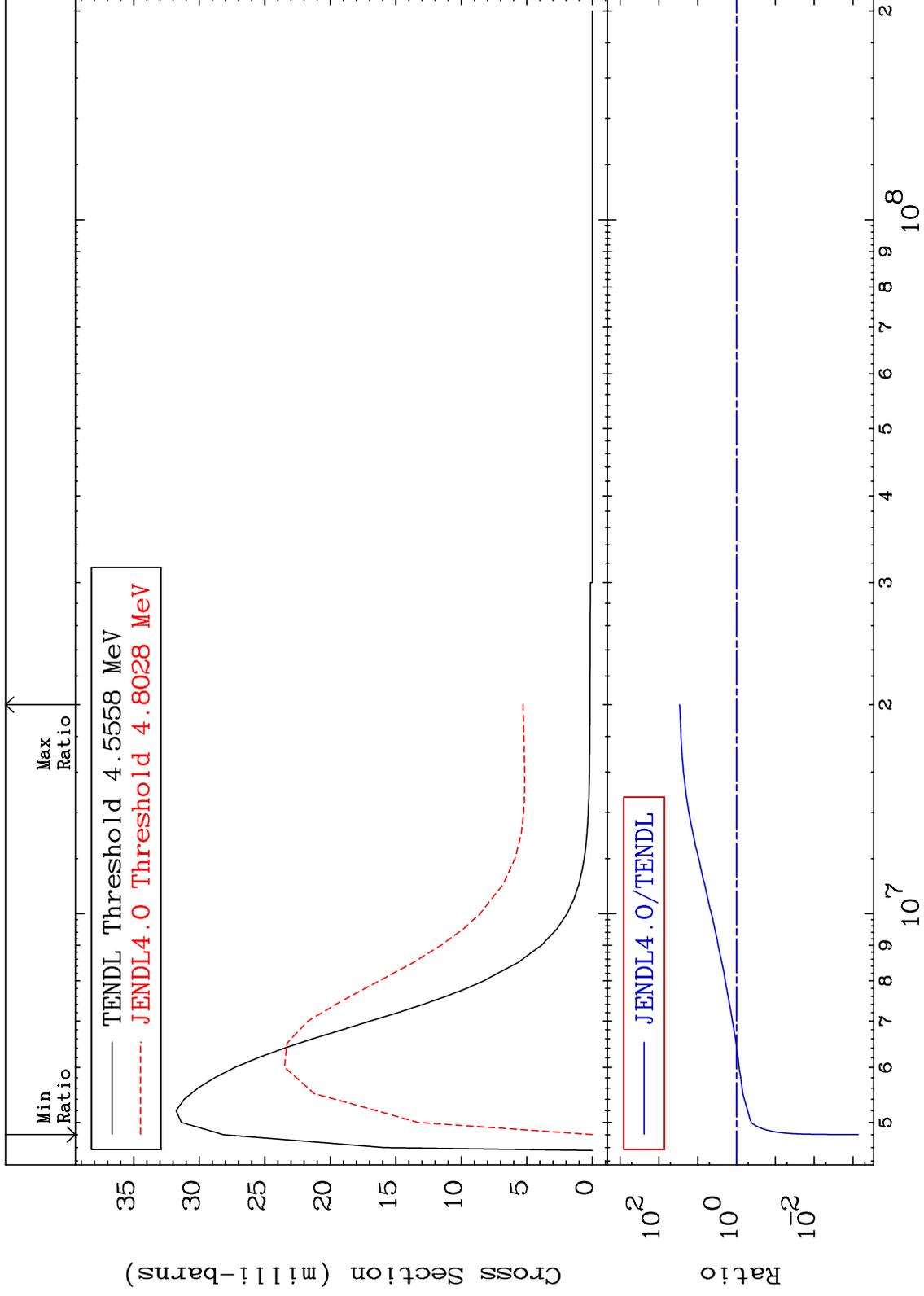
20-Ca-42
-83.89 To 232.2 %



MAT 2031

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

20-Ca-42
-99.93 To 2804. %



30

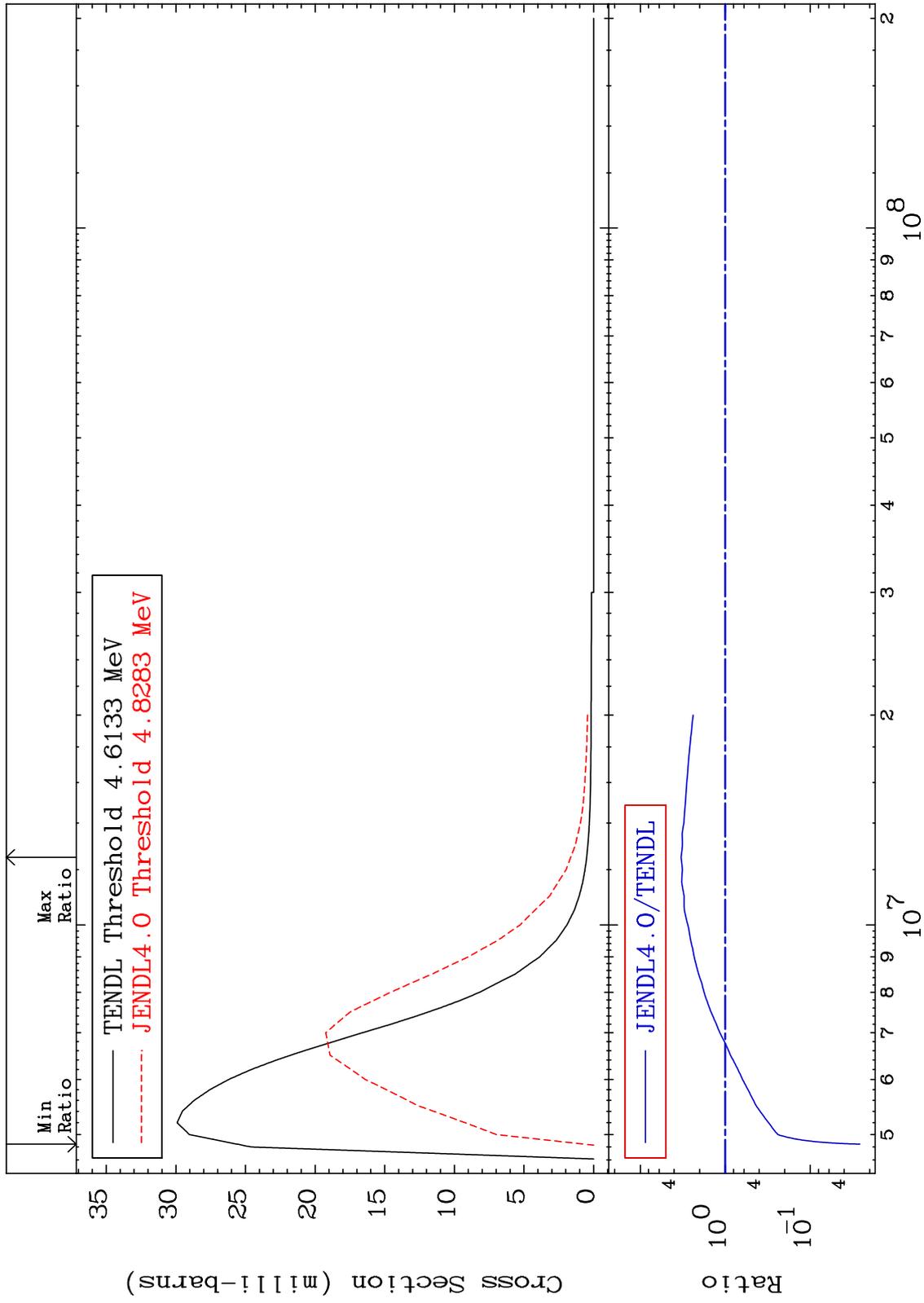
Incident Energy (eV)

20-Ca-42

MAT 2031

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

20-Ca-42
-97.40 To 230.7 %



31

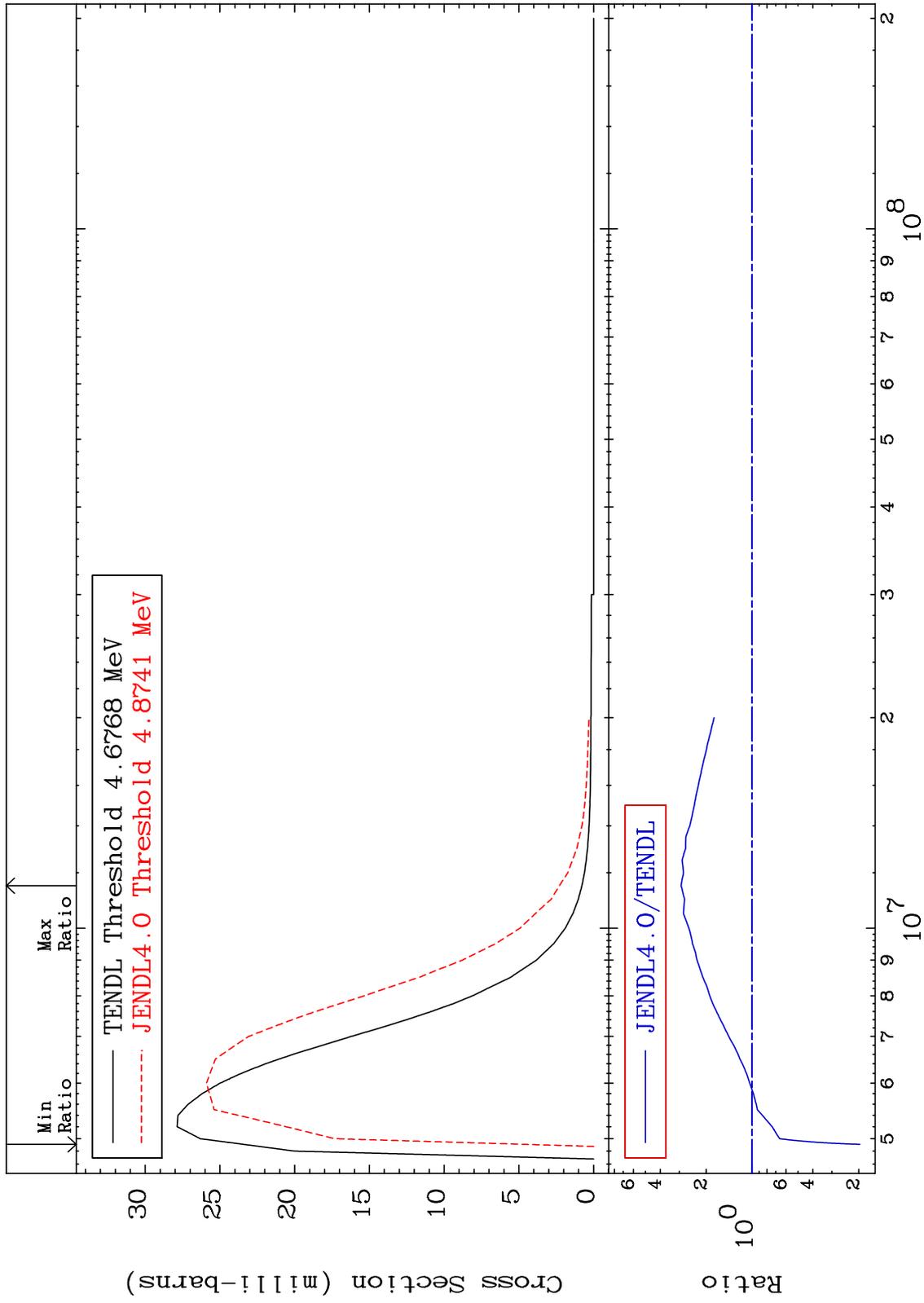
Incident Energy (eV)

20-Ca-42

MAT 2031

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

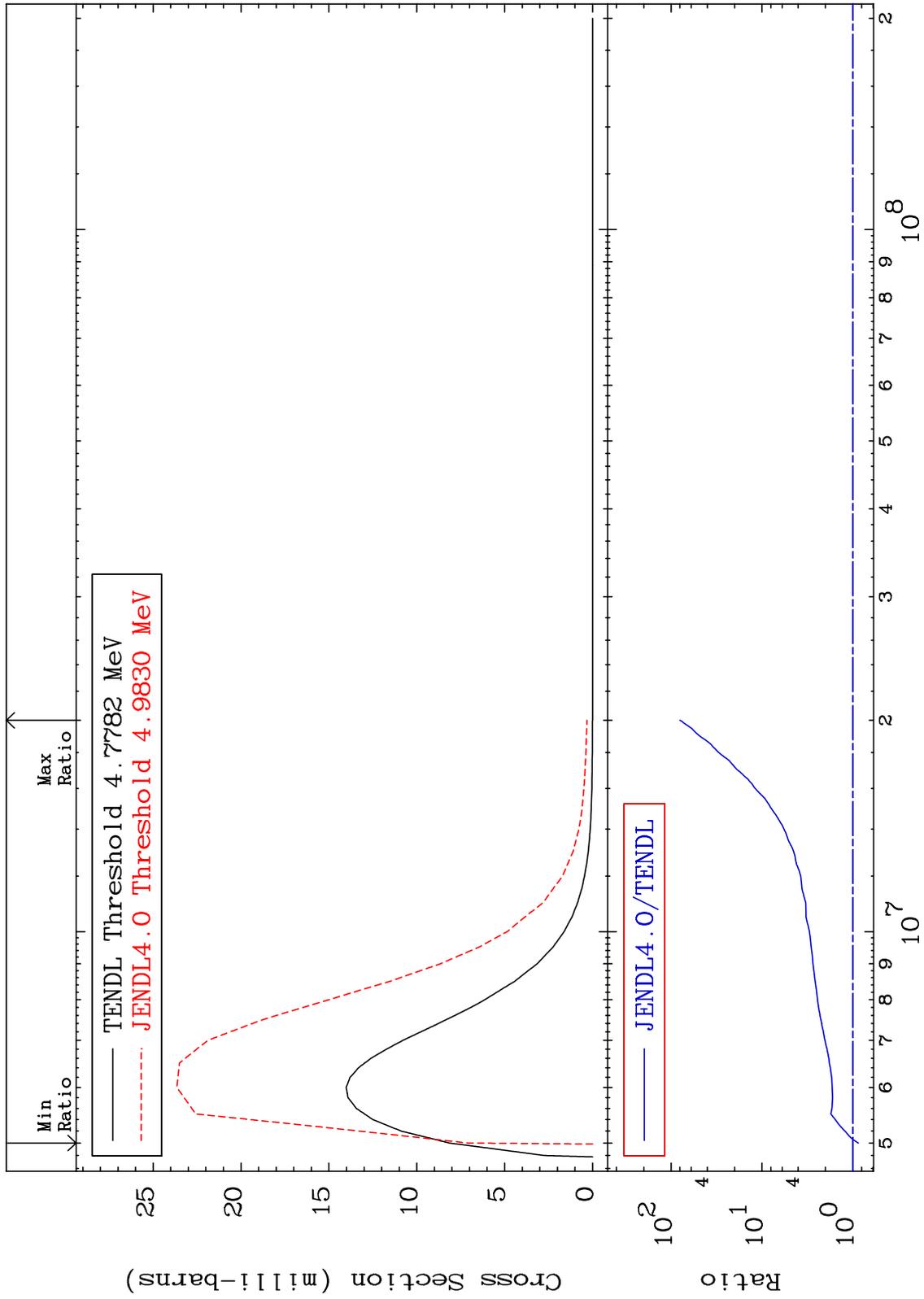
20-Ca-42
-80.36 To 191.9 %



MAT 2031

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

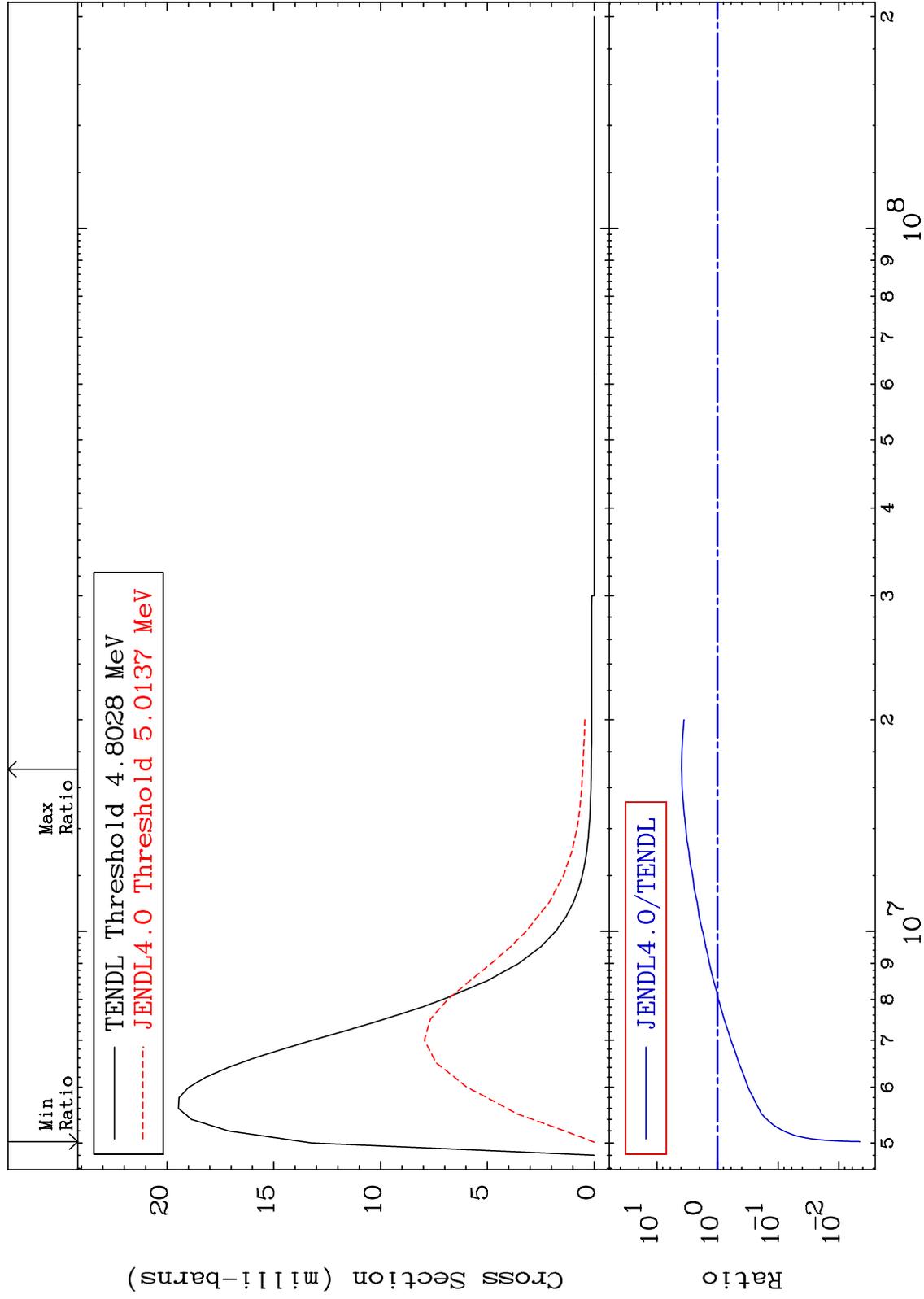
20-Ca-42
-13.18 To 7904. %



MAT 2031

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

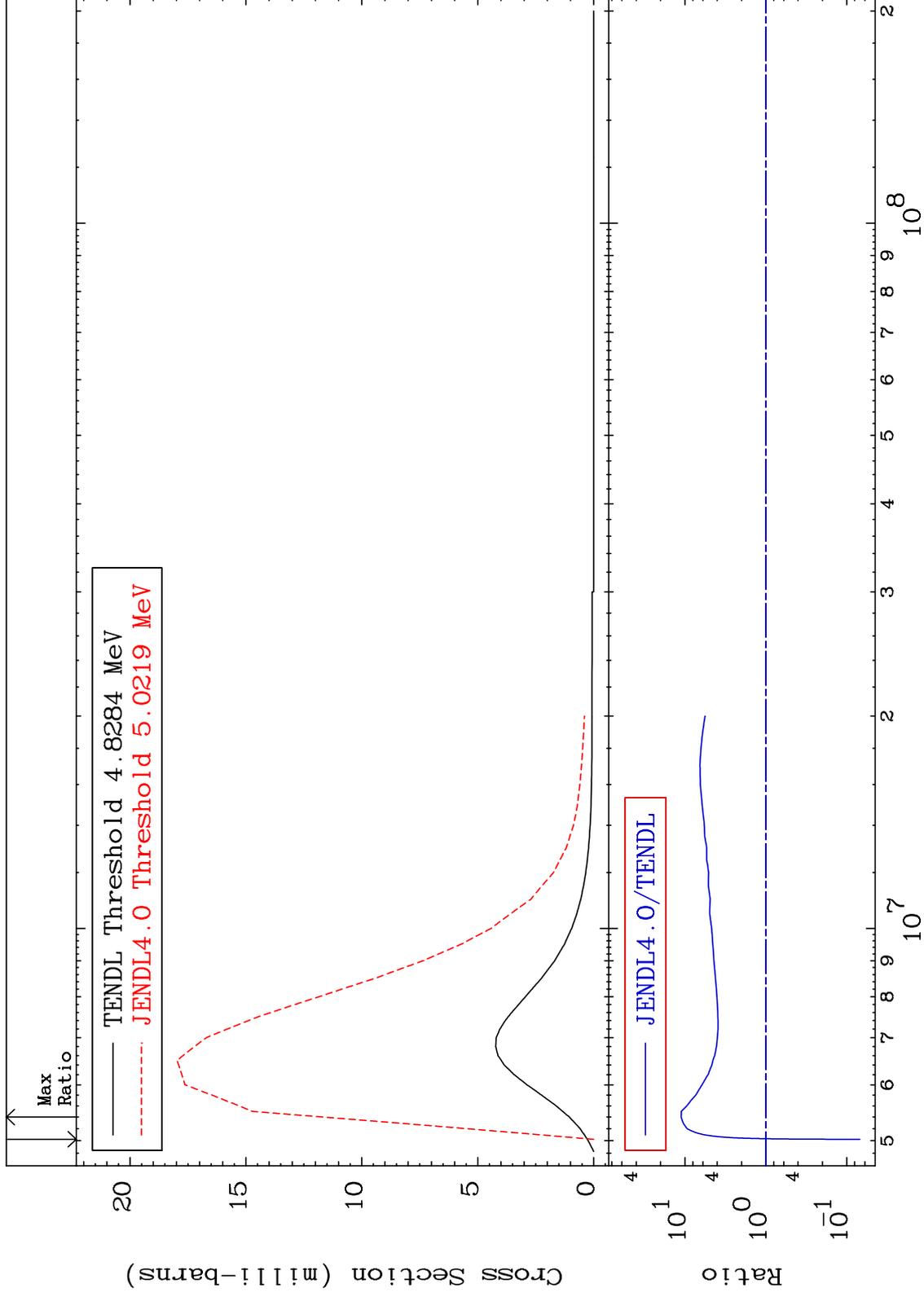
20-Ca-42
-99.55 To 292.6 %



MAT 2031

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

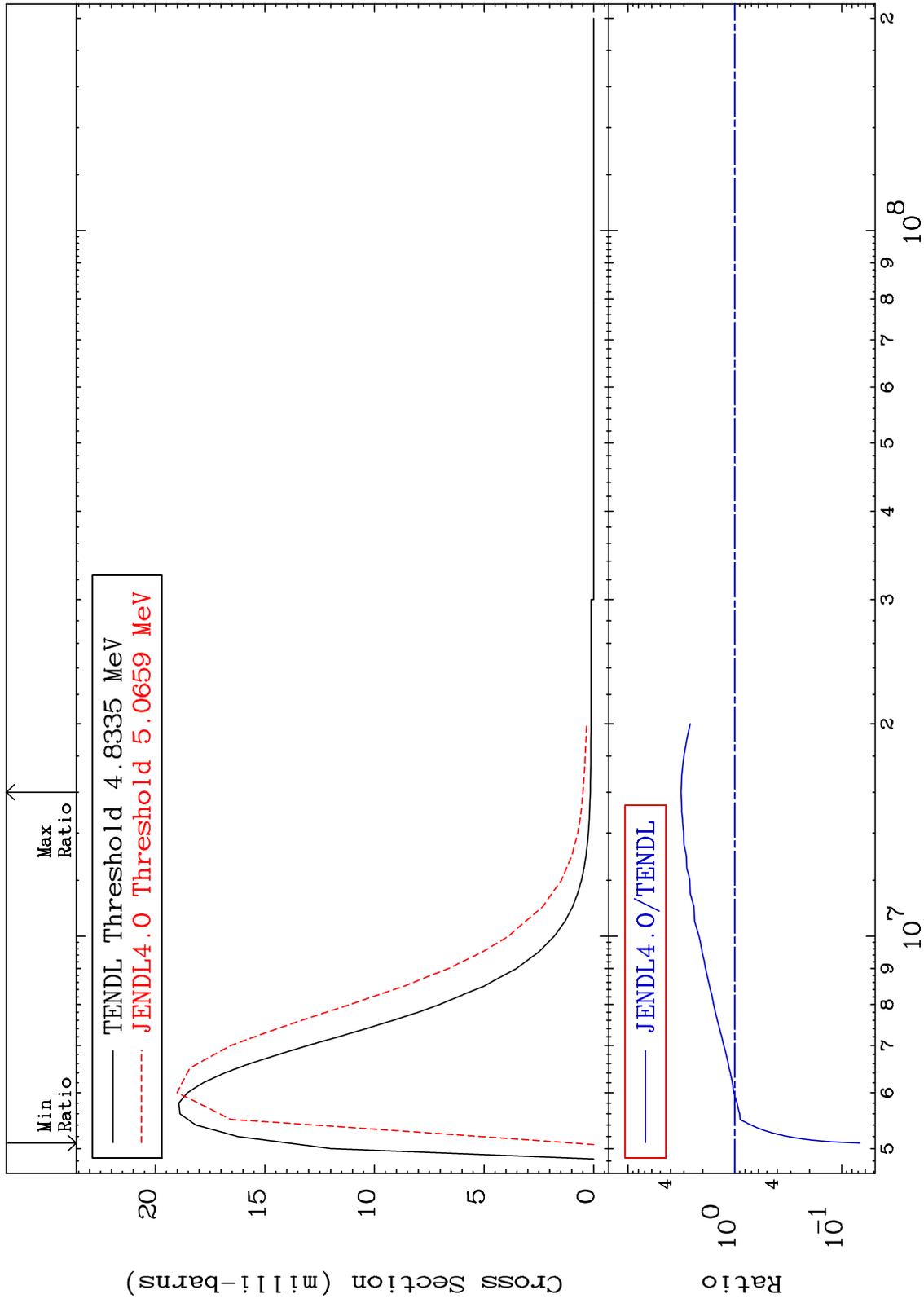
20-Ca-42
-93.10 To 1013. %



MAT 2031

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

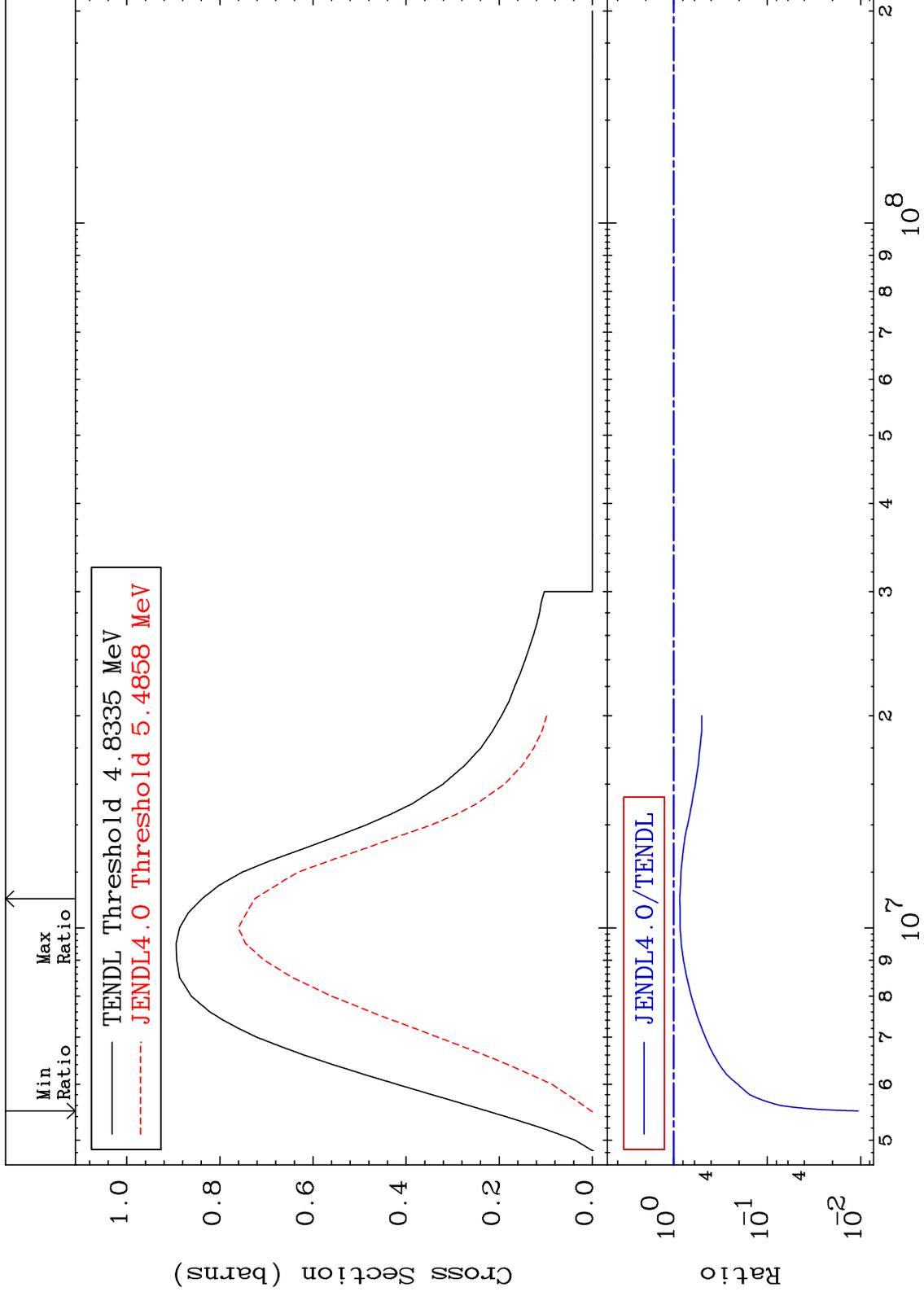
20-Ca-42
-93.25 To 218.4 %



36

Incident Energy (eV)

20-Ca-42



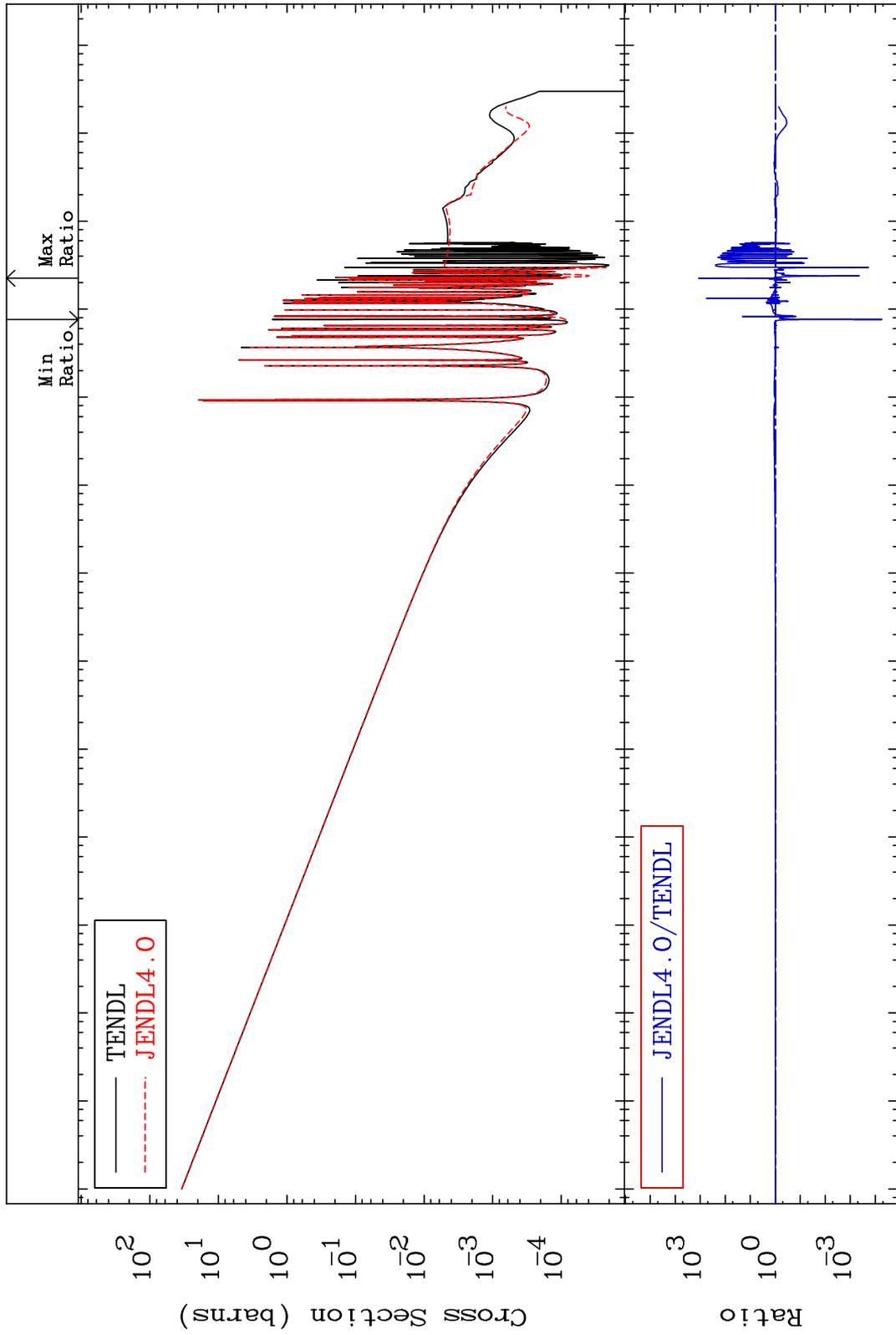
MAT 2031

(n, γ)

20-Ca-42

Cross Section

-99.99 To 9999. %



38

Incident Energy (eV)

20-Ca-42

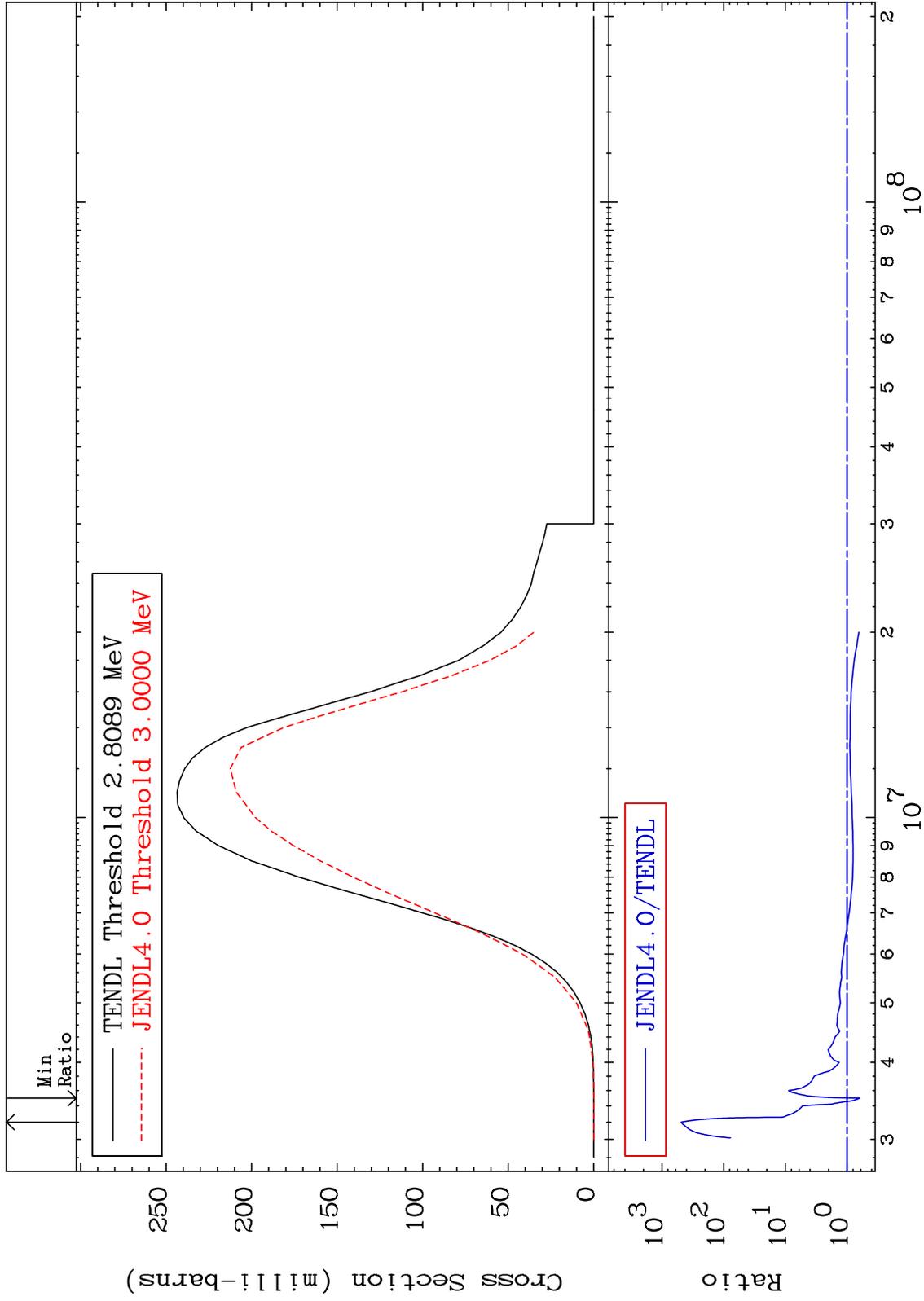
MAT 2031

(n,p)

20-Ca-42

Cross Section

-37.91 To 9999. %



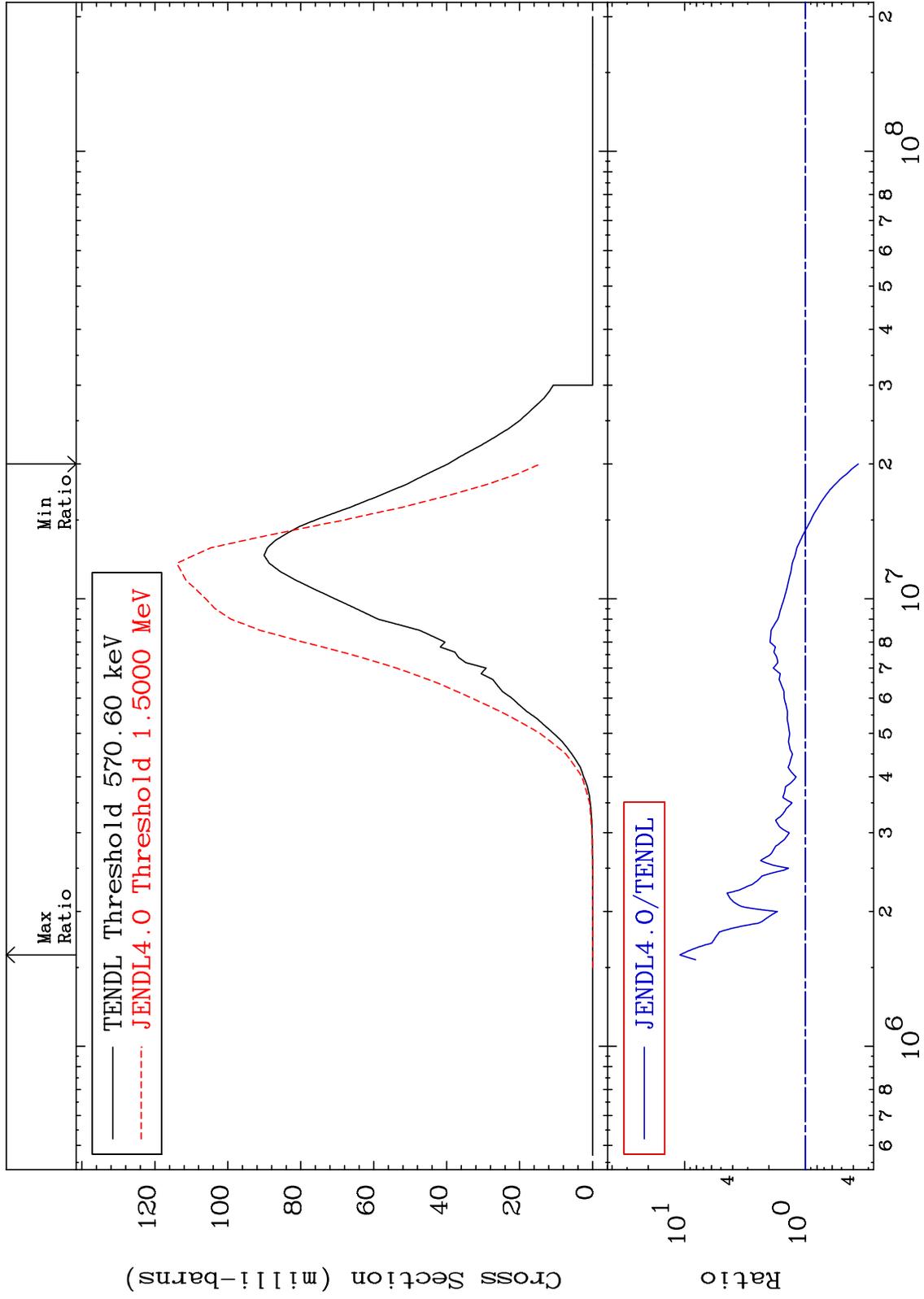
MAT 2031

(n, α)

20-Ca-42

Cross Section

-63.68 To 994.2 %



40

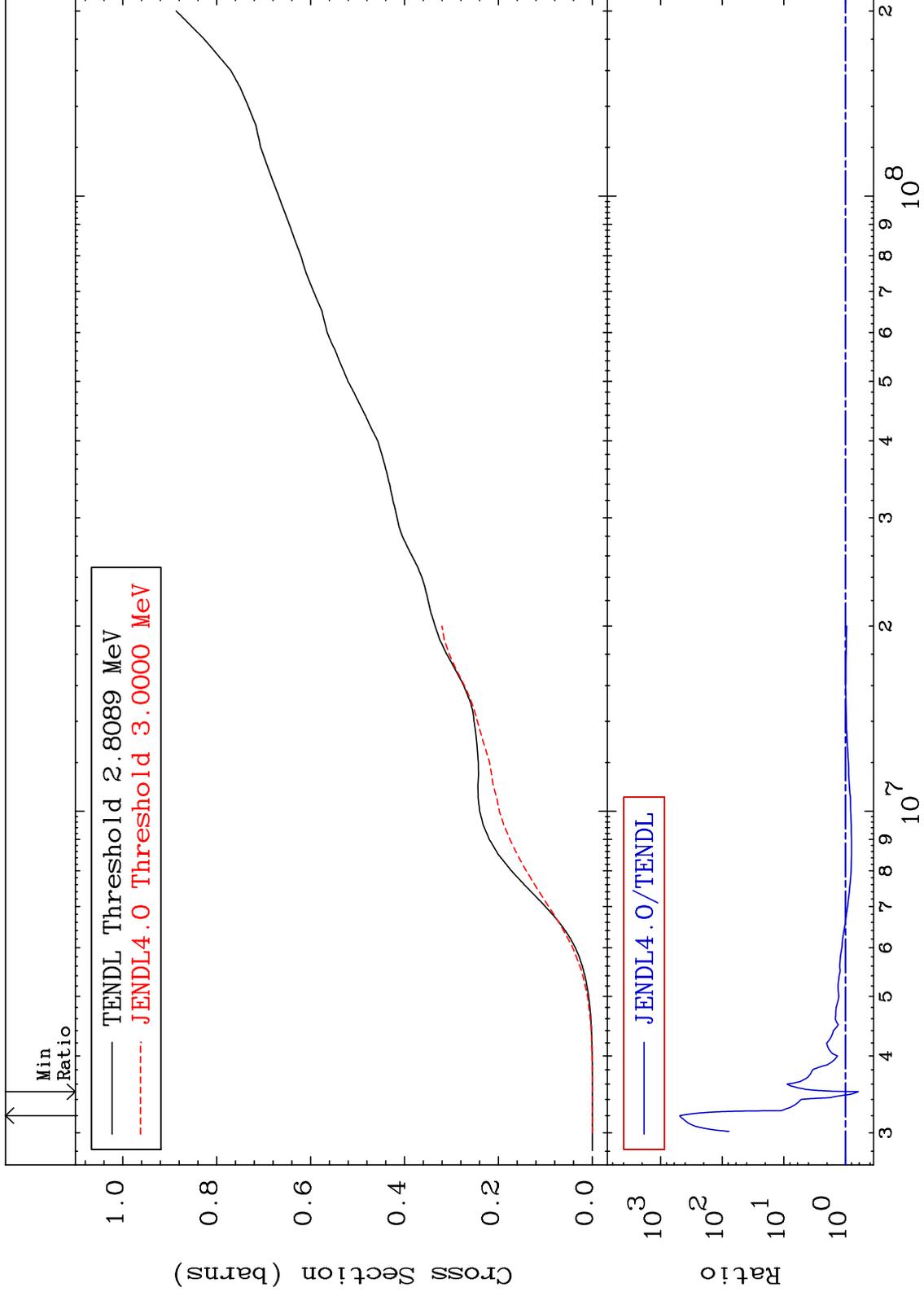
Incident Energy (eV)

20-Ca-42

MAT 2031

Hydrogen Production
Cross Section

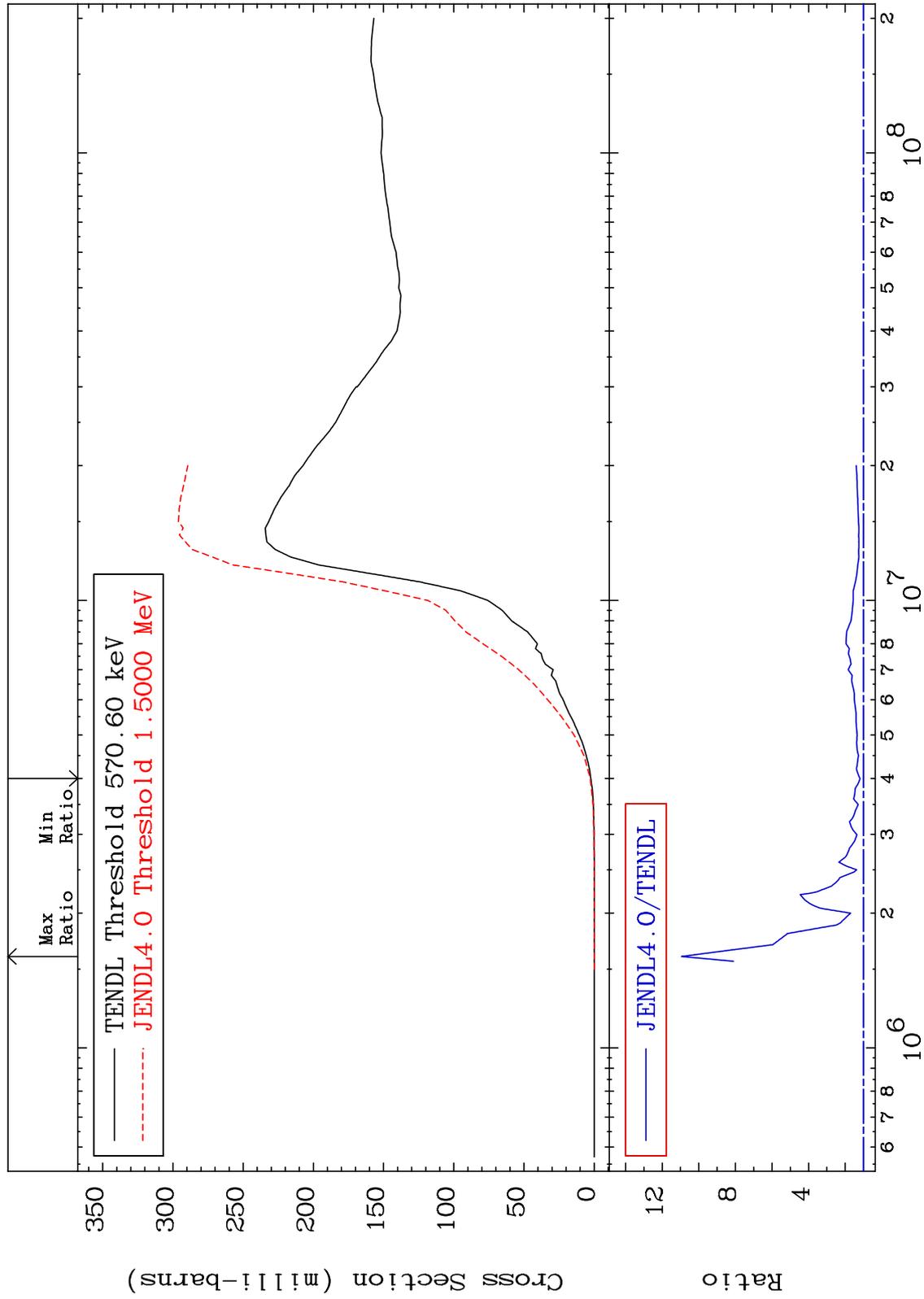
20-Ca-42
-37.91 To 9999. %



MAT 2031

He-4 Production
Cross Section

20-Ca-42
19.11 To 994.2 %

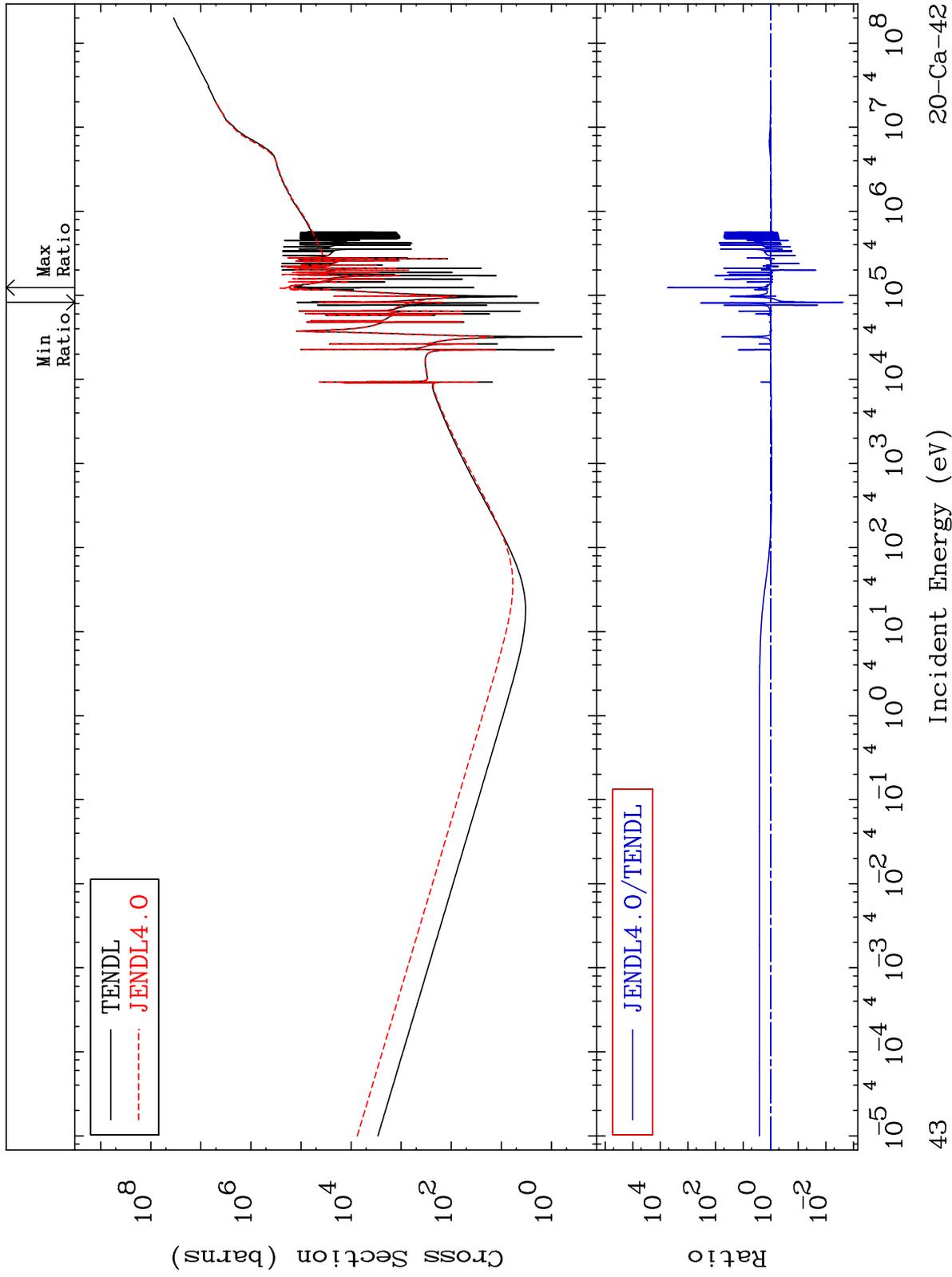


42

MAT 2031

Kerma total (eV-barns)
Cross Section

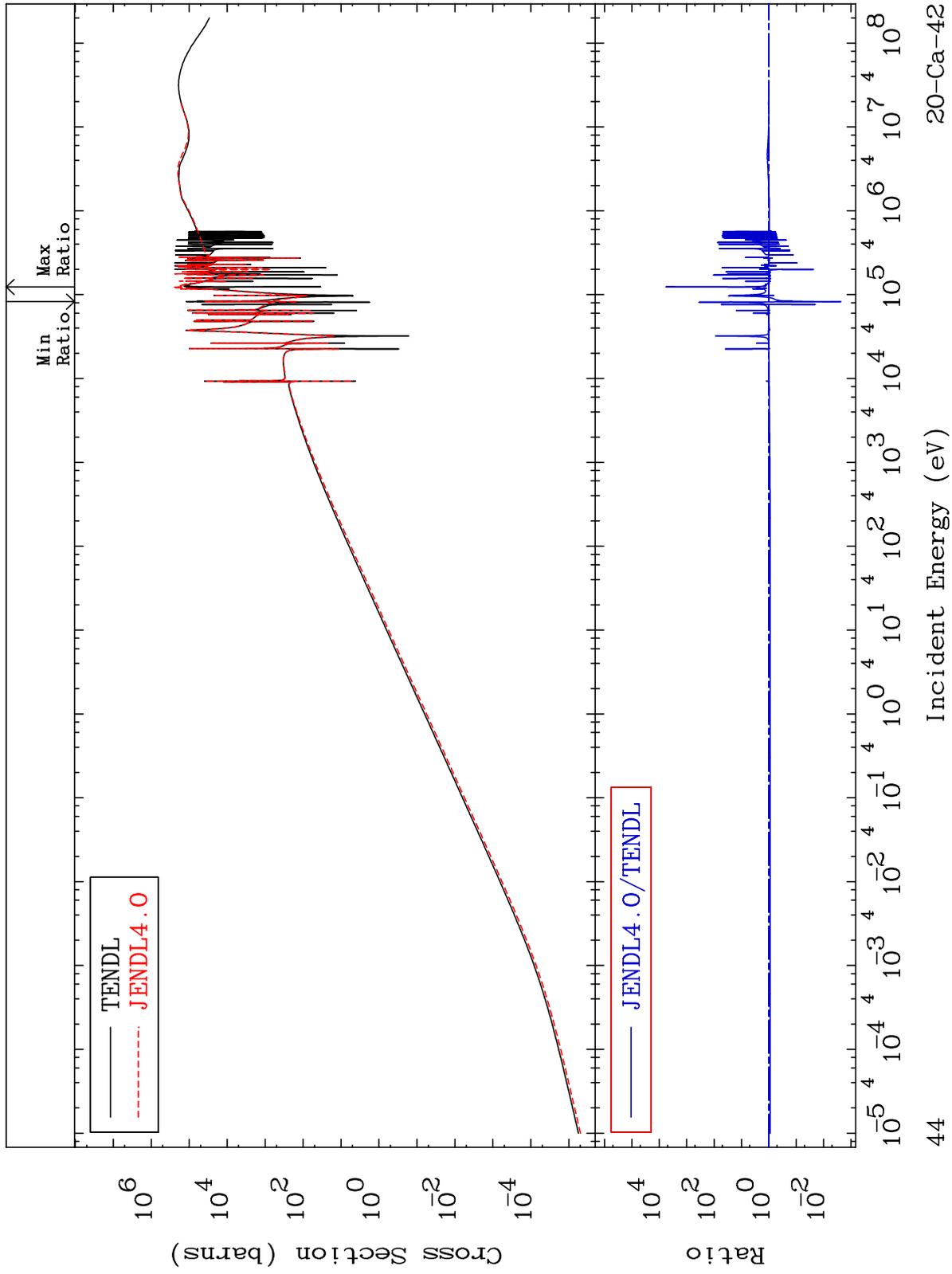
20-Ca-42
-99.76 To 9999. %



MAT 2031

Kerma elastic
Cross Section

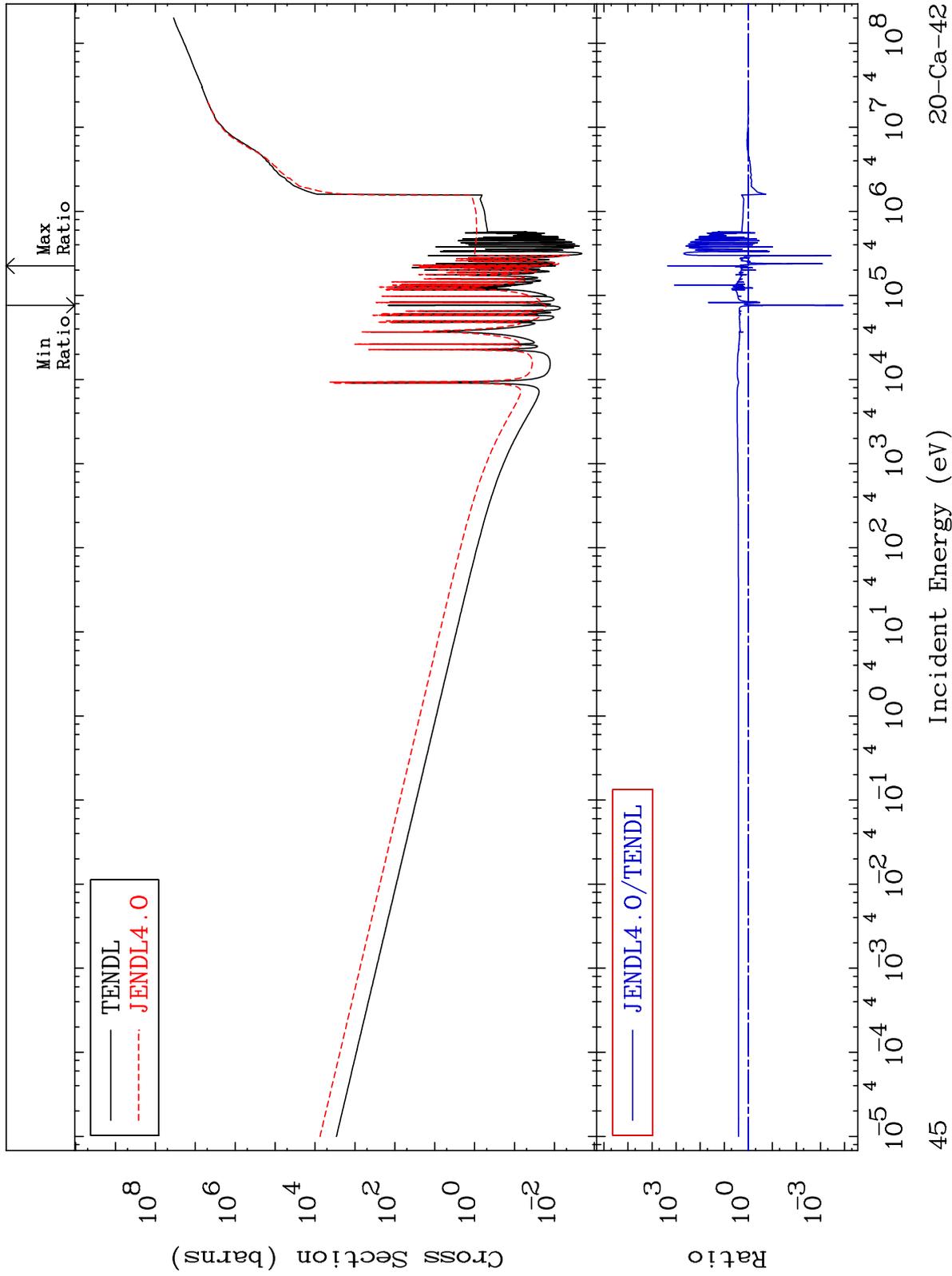
20-Ca-42
-99.76 To 9999. %



MAT 2031

Kerma non-elastic (all but mt2)
Cross Section

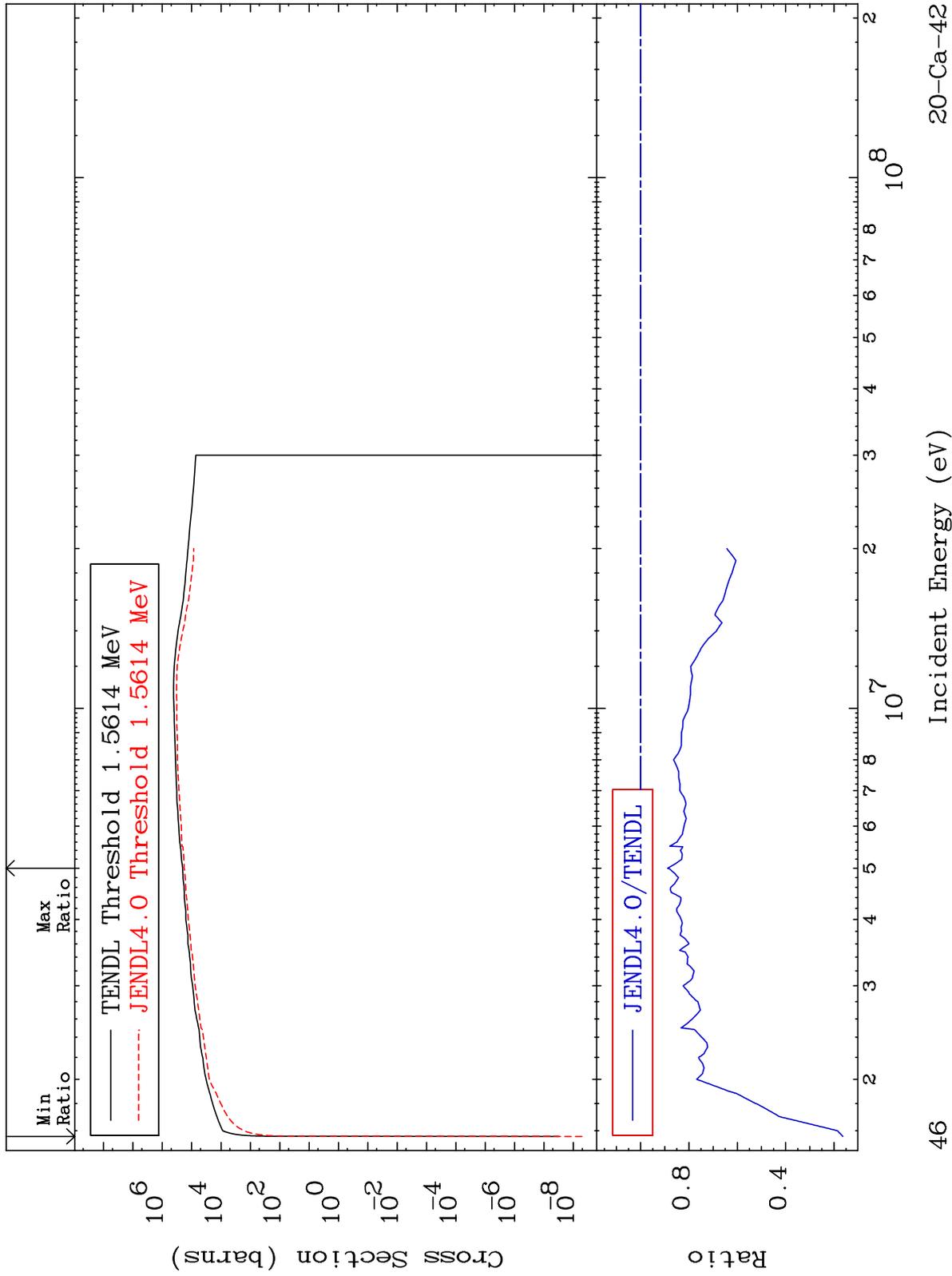
20-Ca-42
-99.99 To 9999. %



MAT 2031

Kerma inelastic (mt51-91)
Cross Section

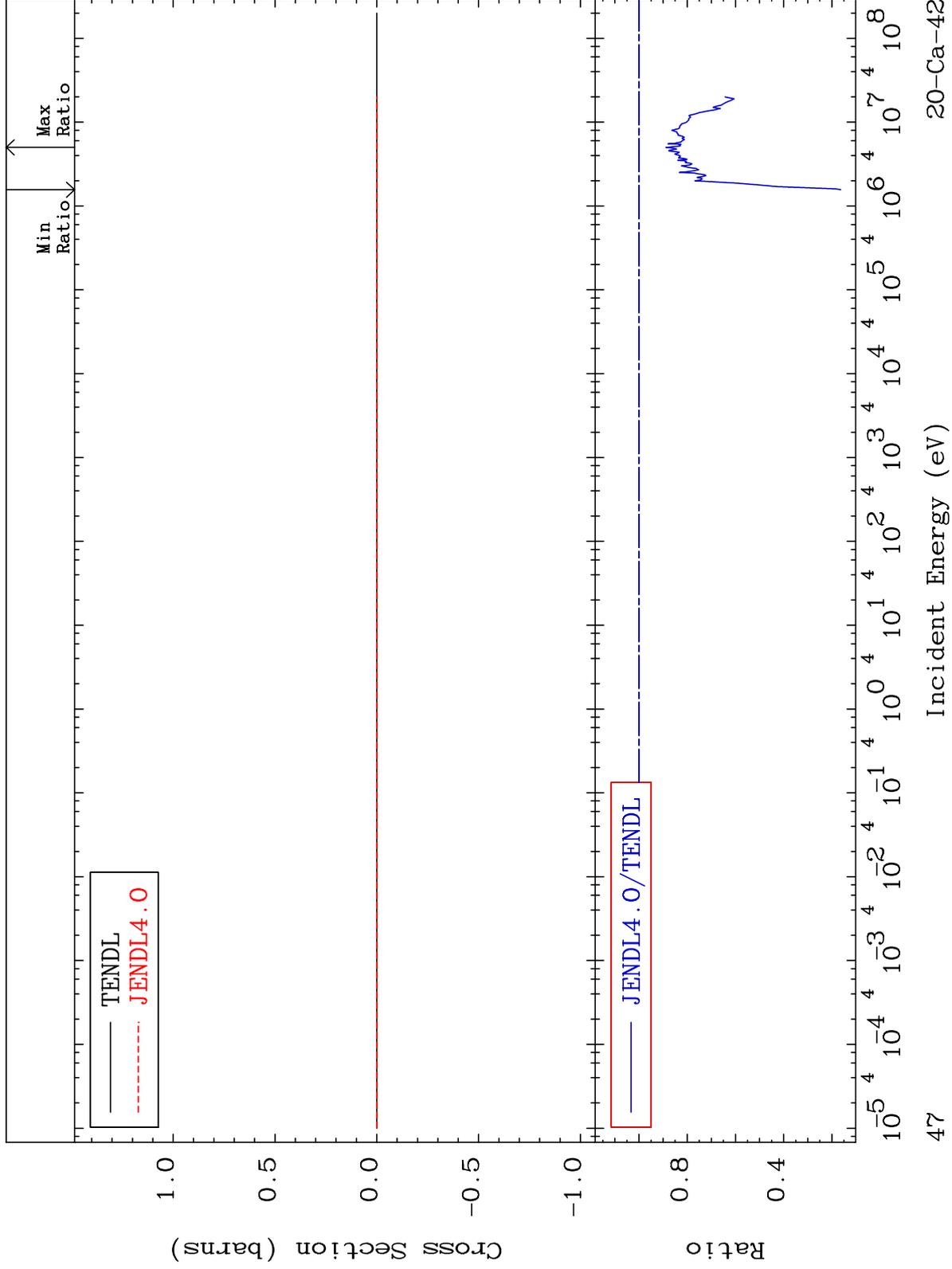
20-Ca-42
-83.66 To -11.18%



MAT 2031

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

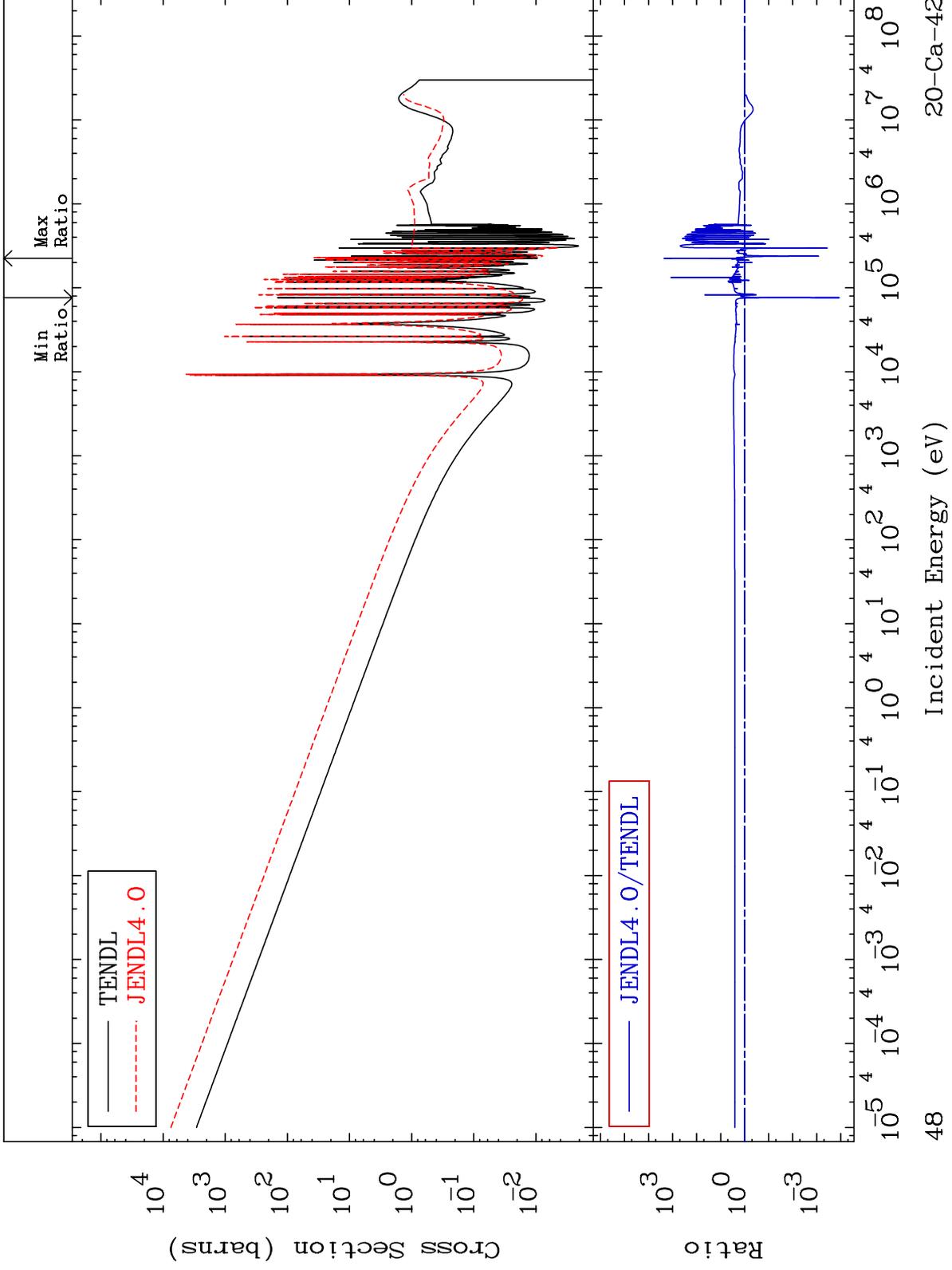
20-Ca-42
-83.66 To -11.18%



MAT 2031

Kerma capture (mt102)
Cross Section

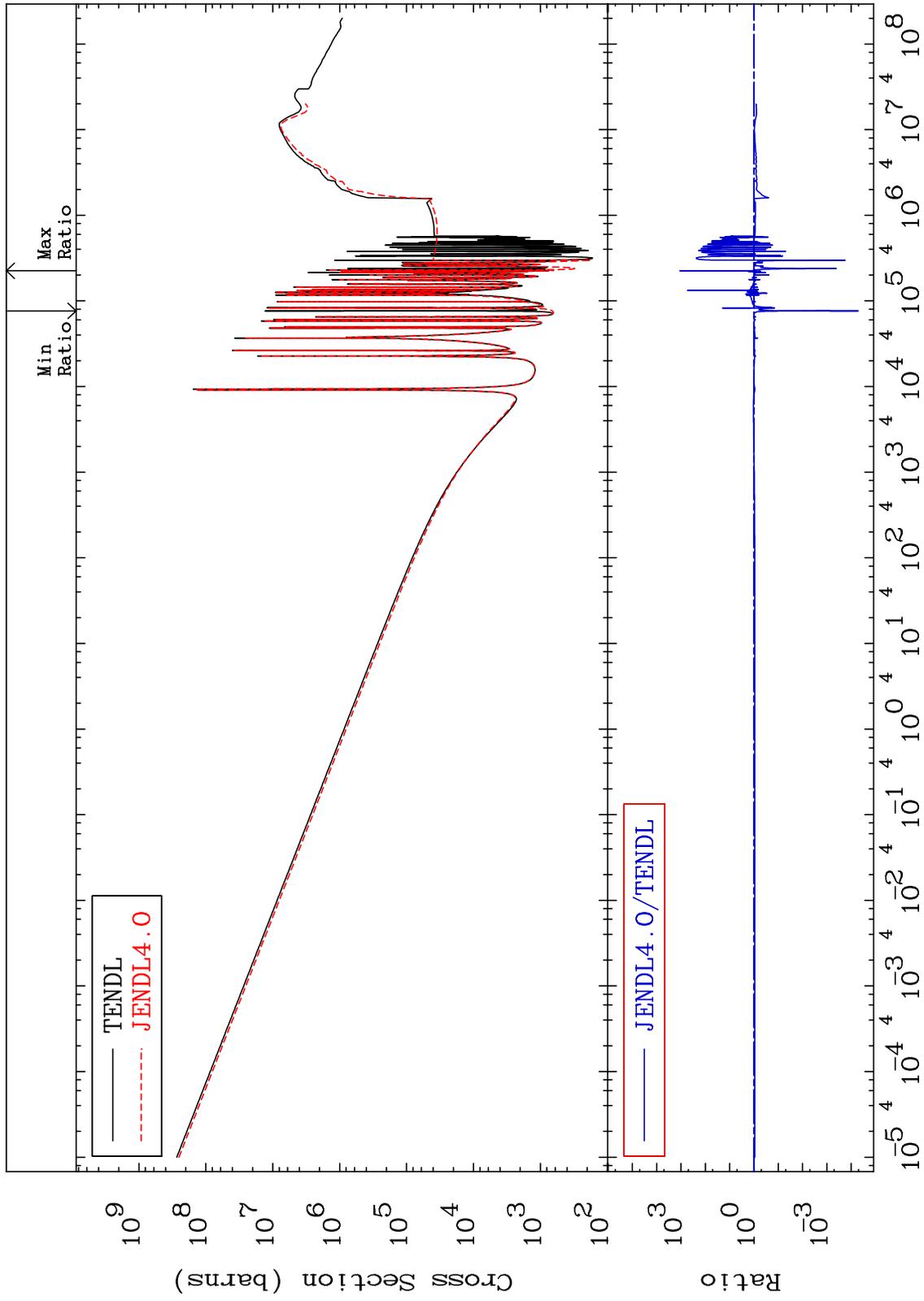
20-Ca-42
-99.99 To 9999. %



MAT 2031

Total photon (eV-barns)
Cross Section

20-Ca-42
-99.99 To 9999. %



49

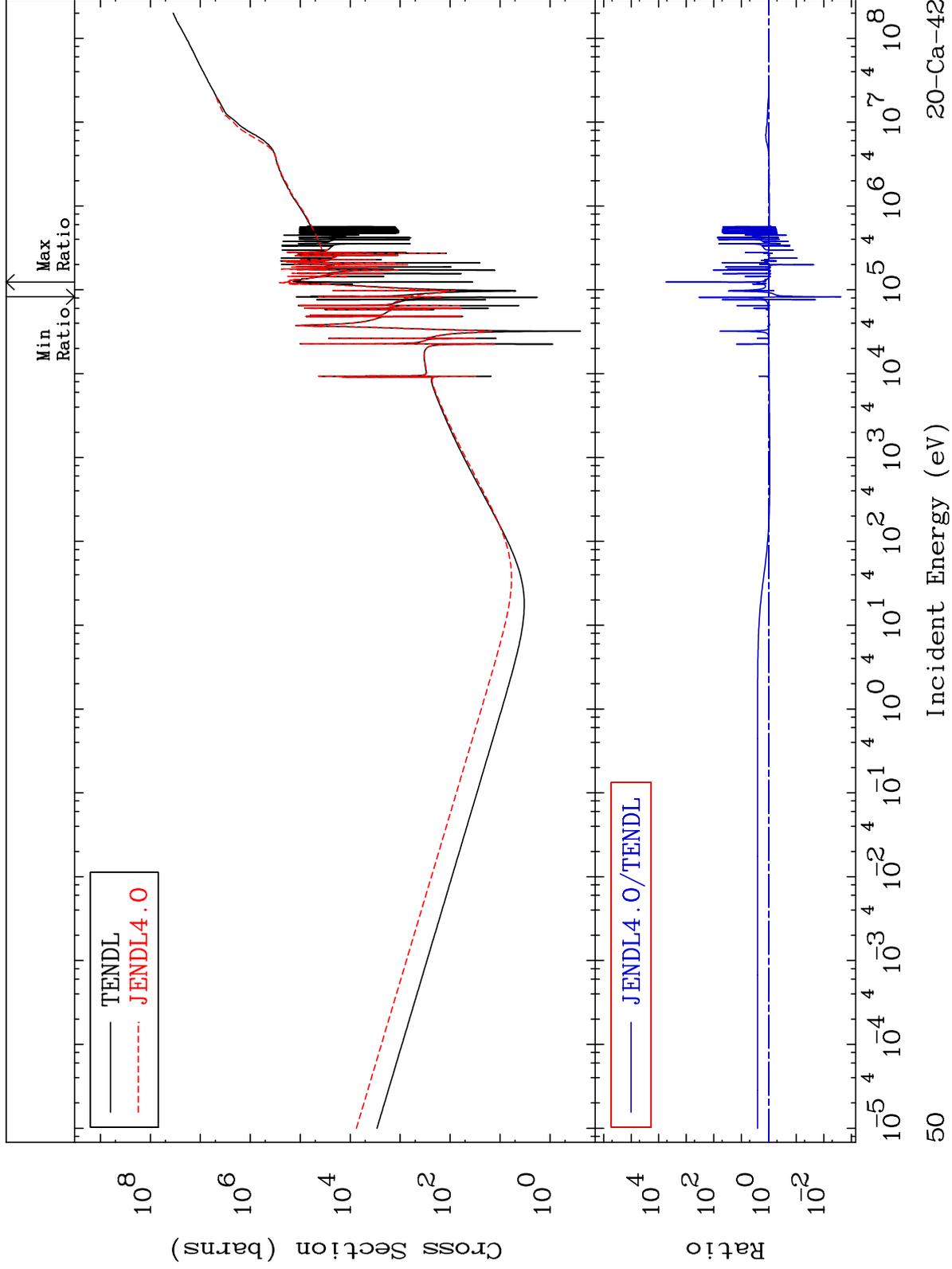
Incident Energy (eV)

20-Ca-42

MAT 2031

Total kinematic kerma (high limit)
Cross Section

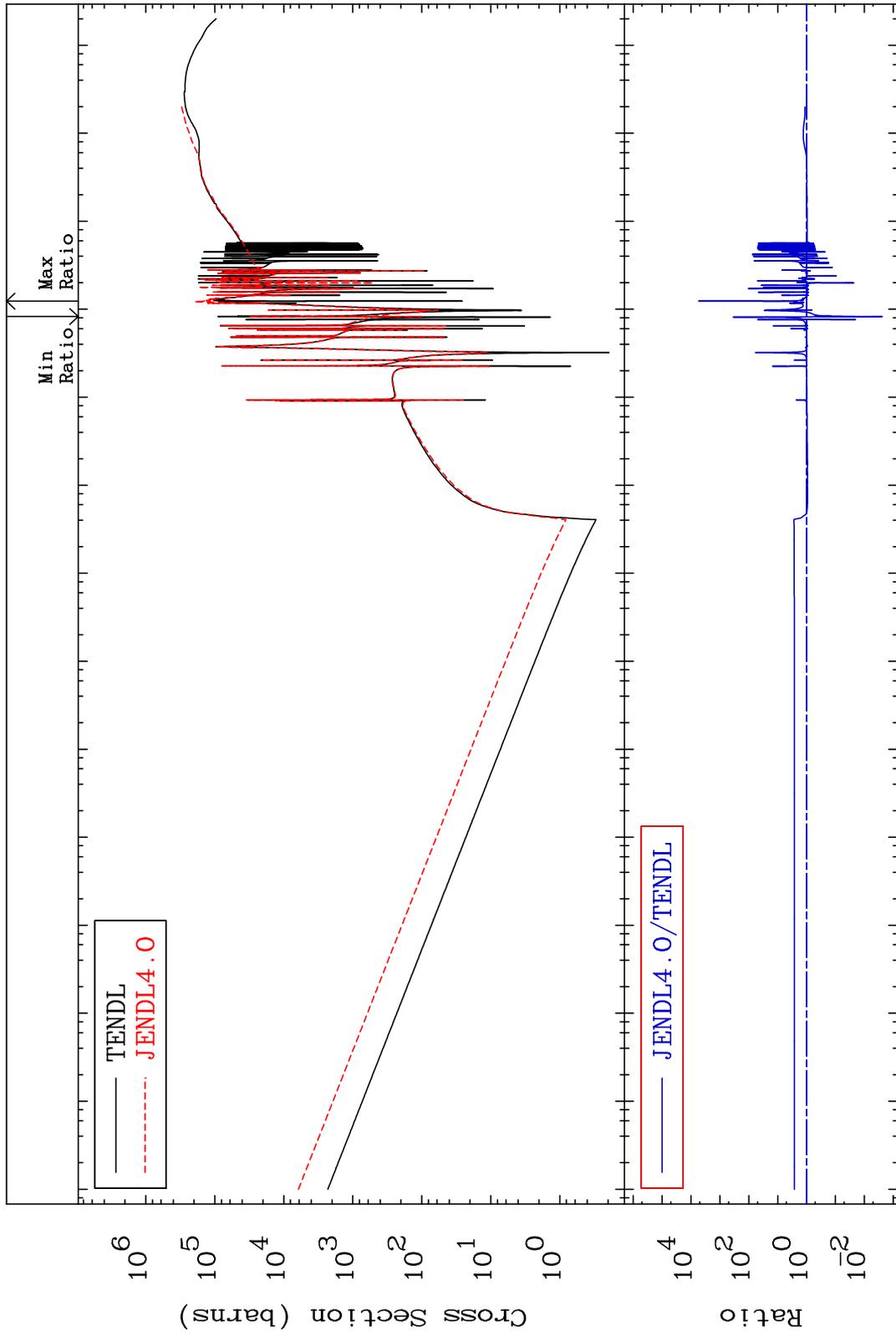
20-Ca-42
-99.76 To 9999. %



MAT 2031

Dpa total (eV-barns)
Cross Section

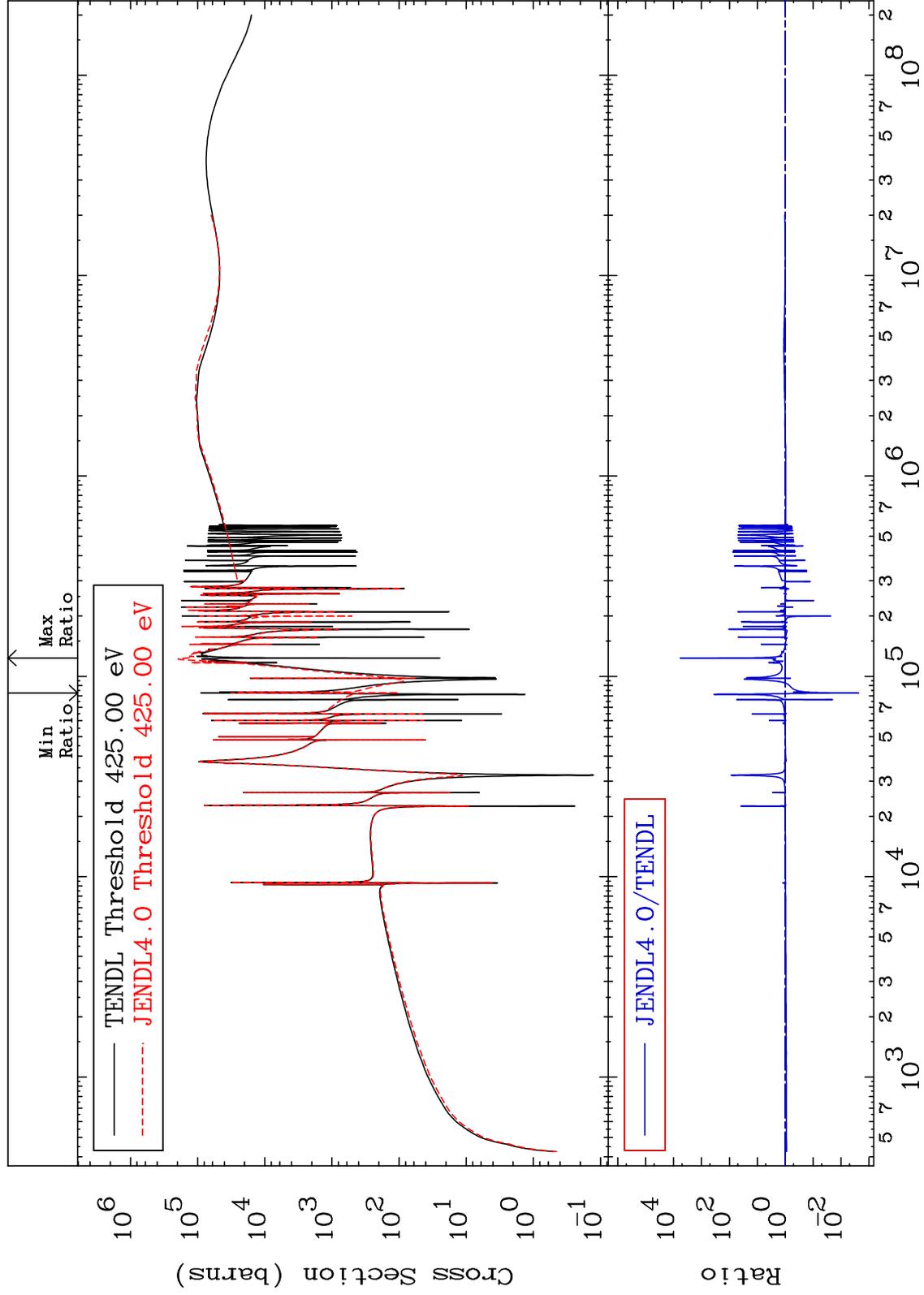
20-Ca-42
-99.76 To 9999. %



MAT 2031

Dpa elastic (mt2)
Cross Section

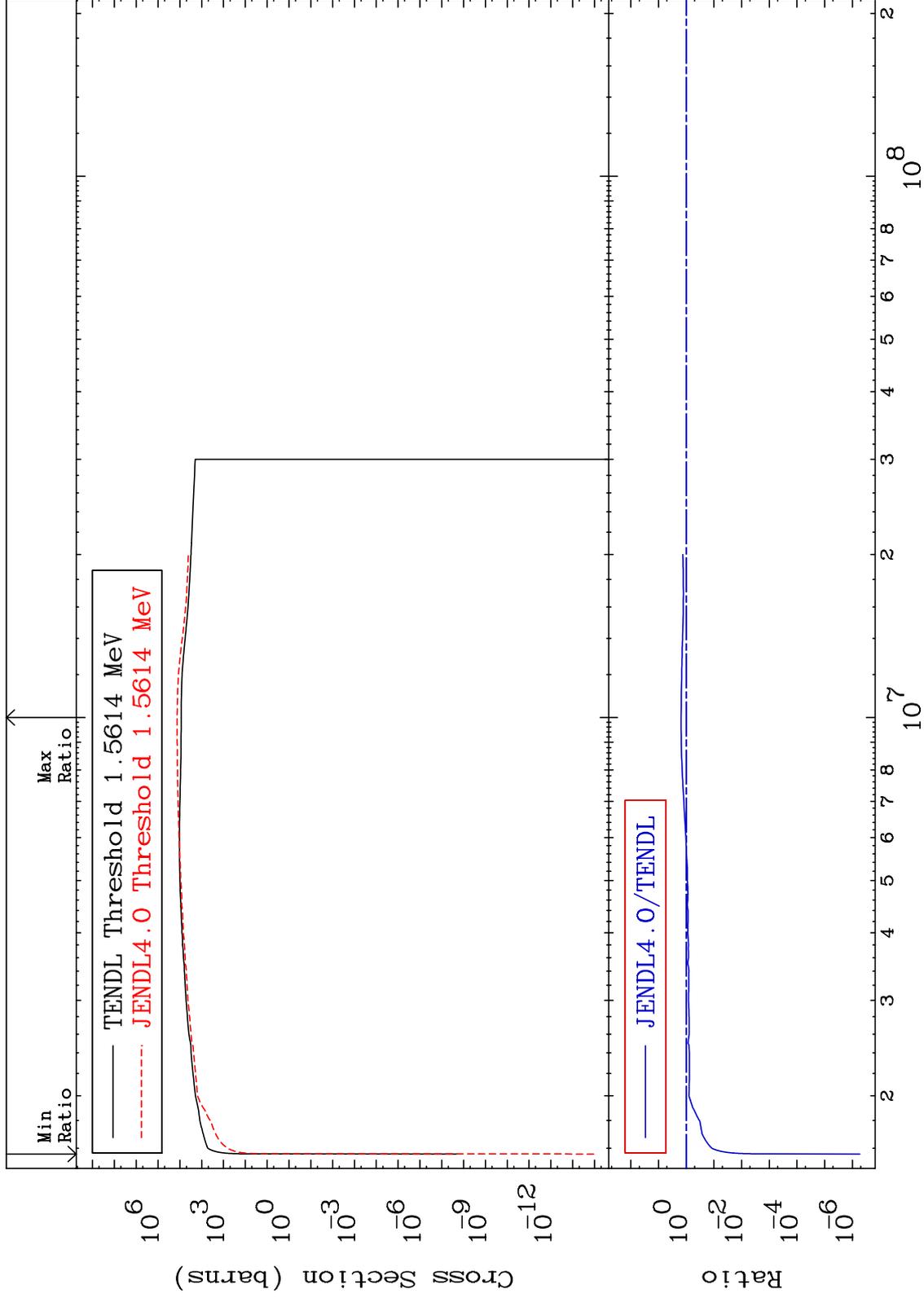
20-Ca-42
-99.76 To 9999. %



MAT 2031

Dpa inelastic (mt51-91)
Cross Section

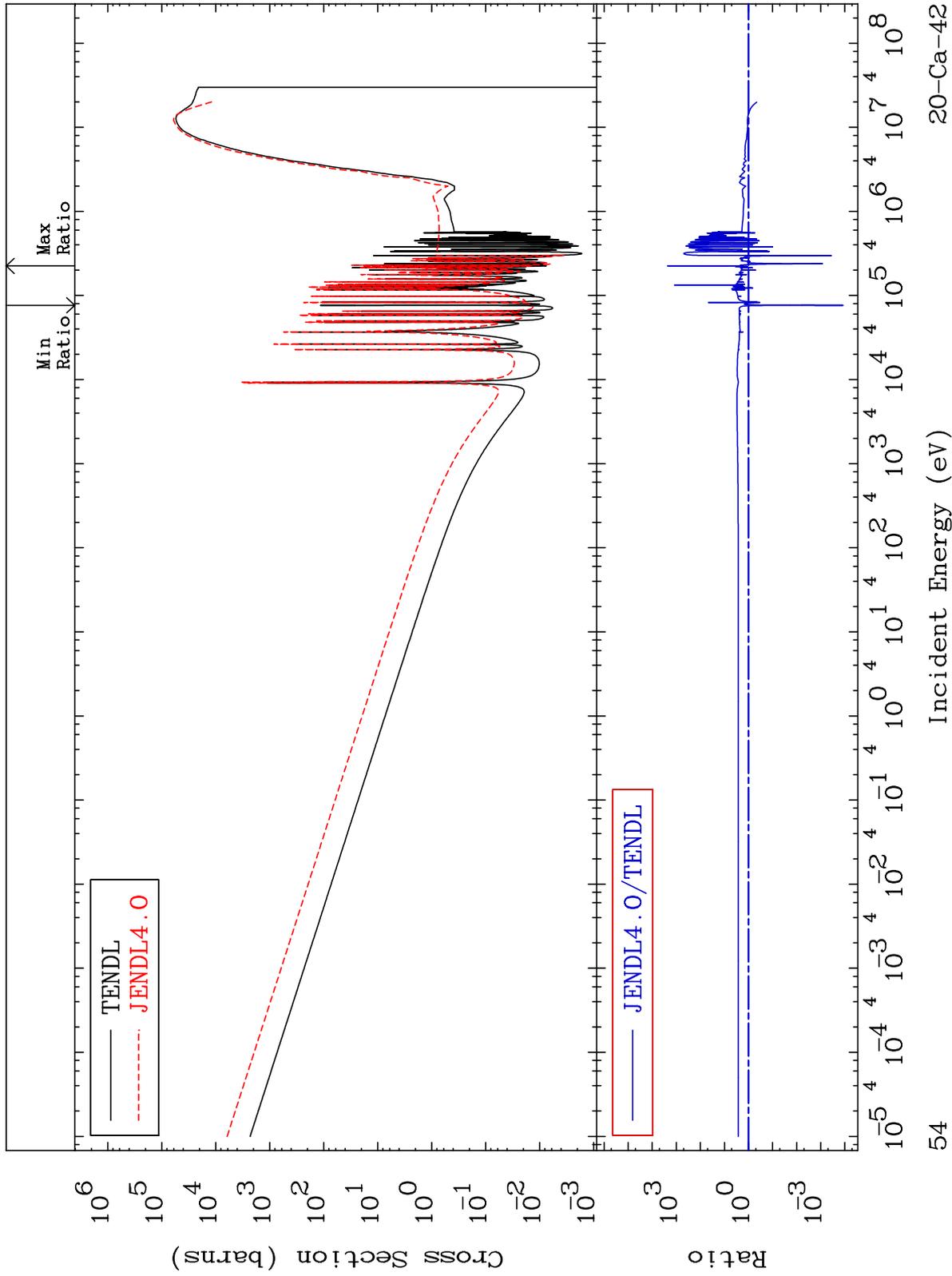
20-Ca-42
-100.0 To 53.26 %



MAT 2031

Dpa disappearance (mt102 -120)
Cross Section

20-Ca-42
-99.99 To 9999. %



MAT 2031

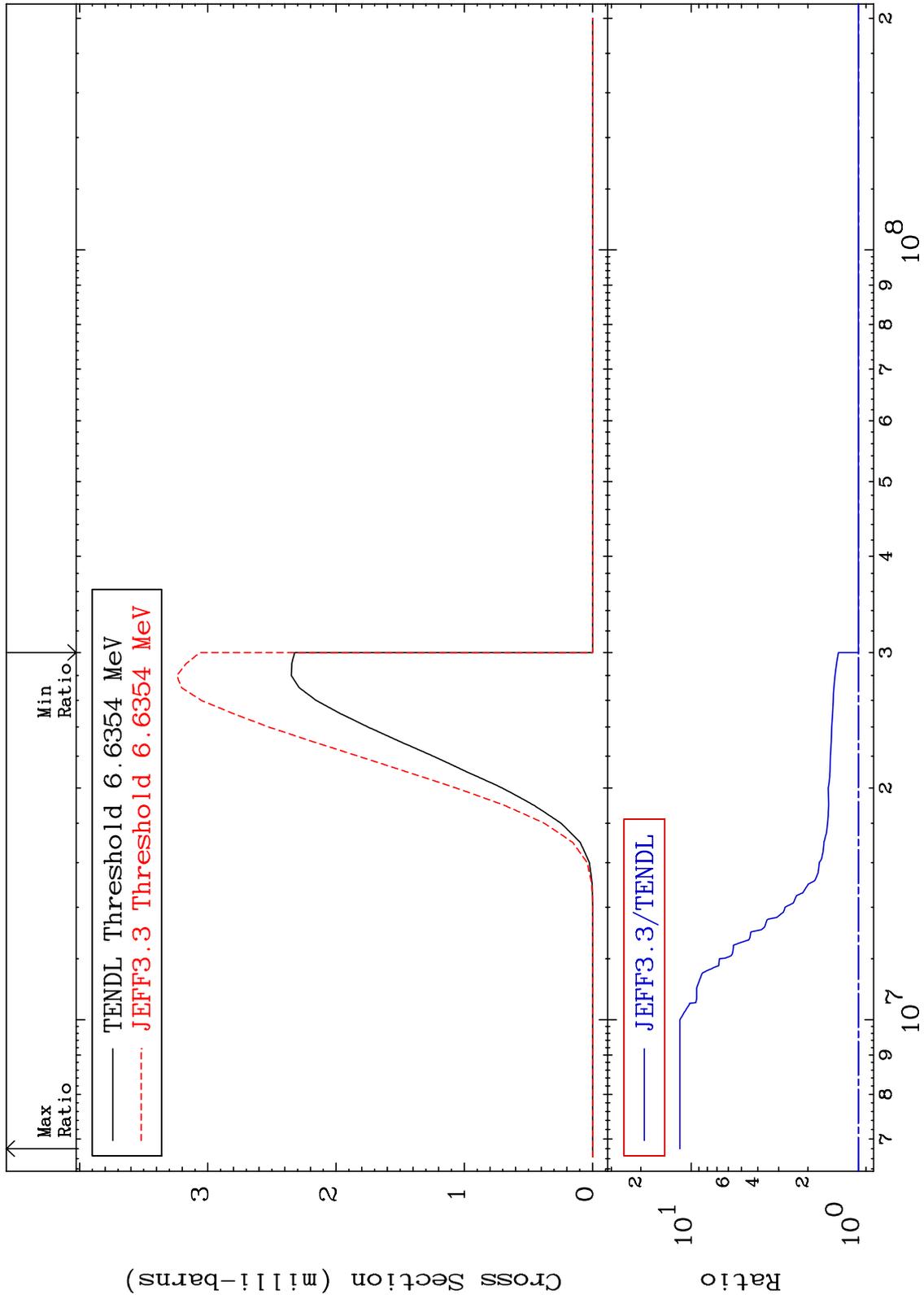
(n, 2α)

20-Ca-42

Cross Section

Cross Section

0.000 To 1067. %



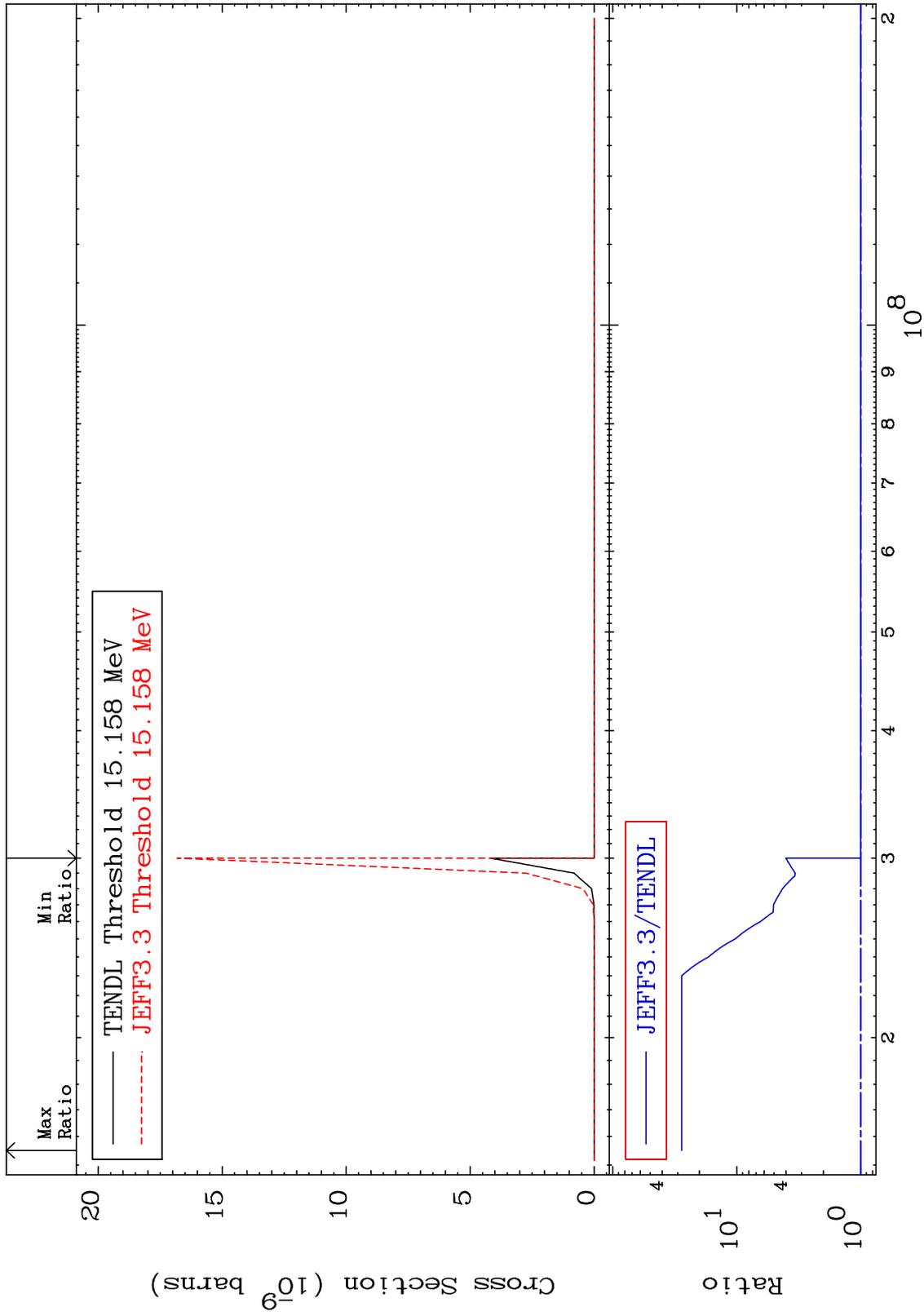
MAT 2031

(n, 3α)

20-Ca-42

Cross Section

0.000 To 2680. %



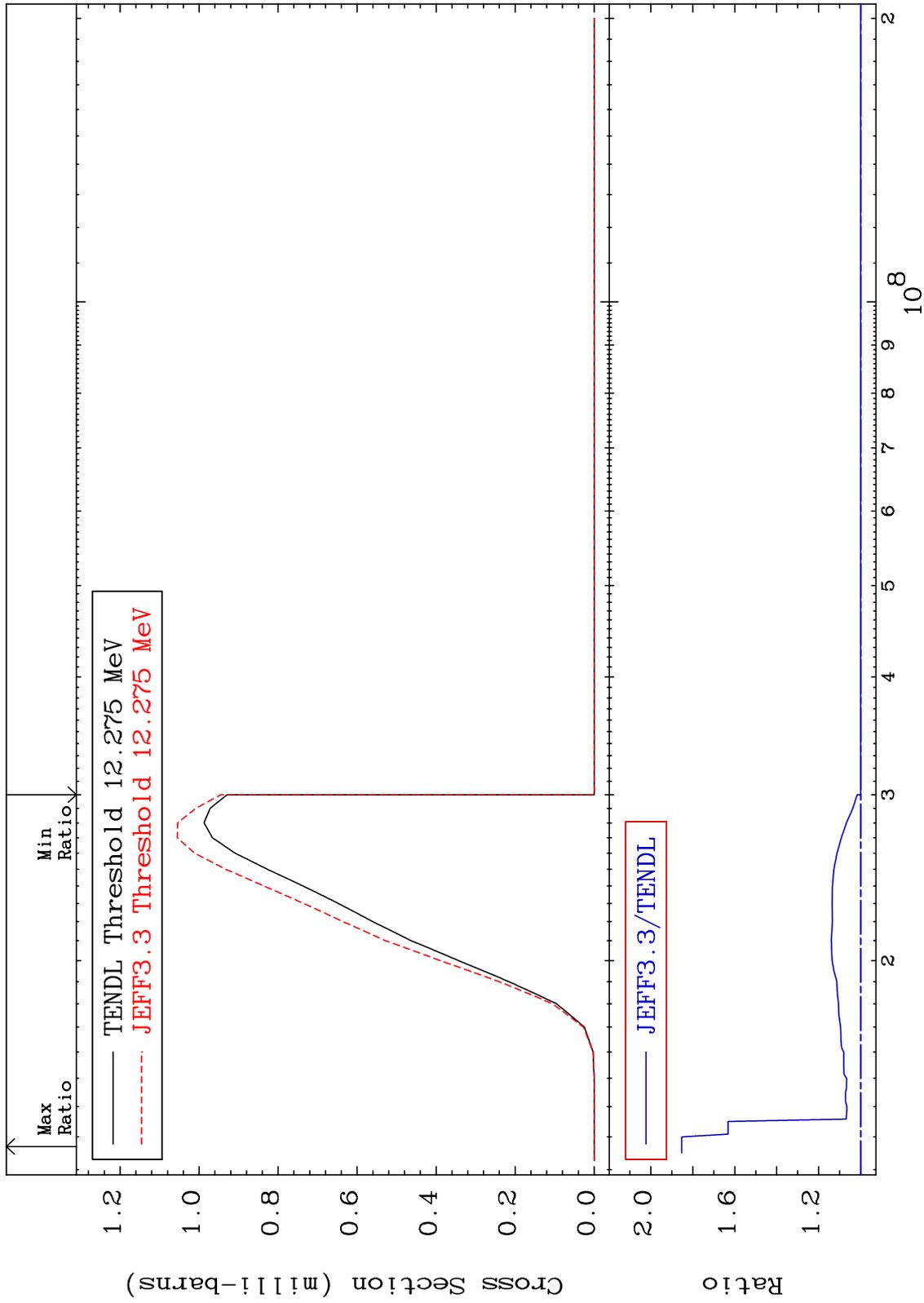
MAT 2031

(n,2p)

20-Ca-42

Cross Section

0.000 To 85.26 %



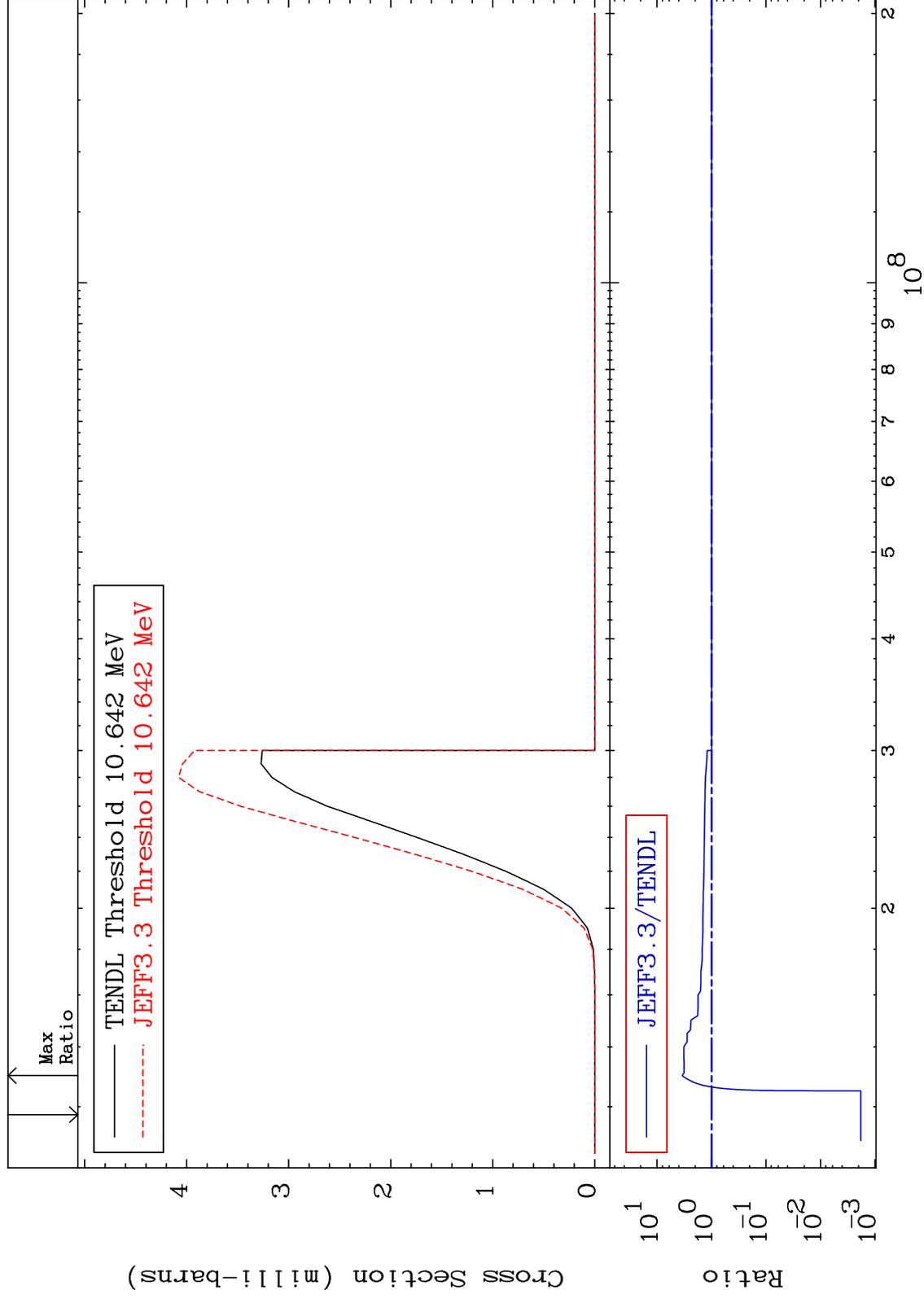
MAT 2031

(n,p) α

20-Ca-42

Cross Section

-99.82 To 246.2 %



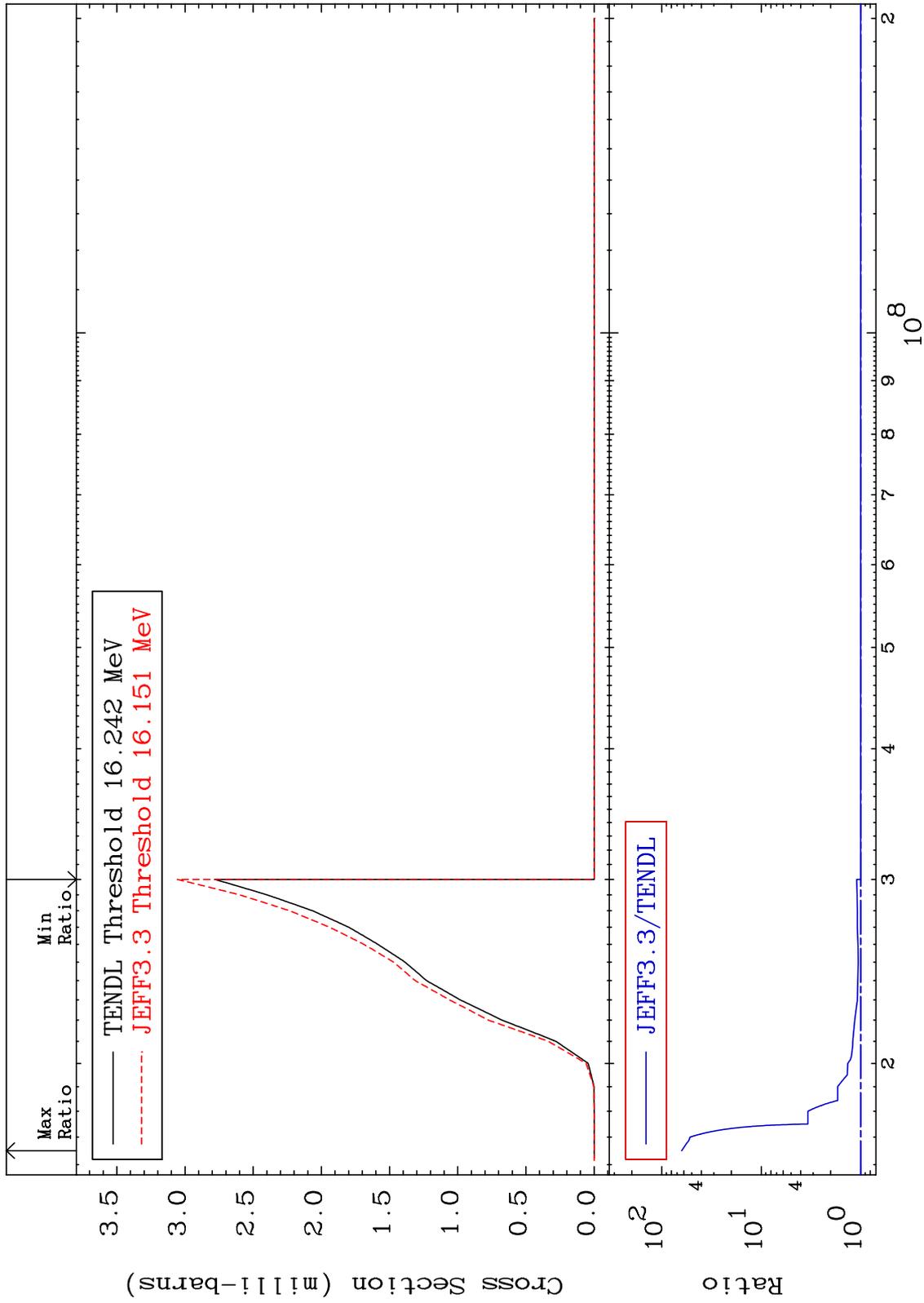
MAT 2031

(n,p) d

20-Ca-42

Cross Section

0.000 To 6192. %



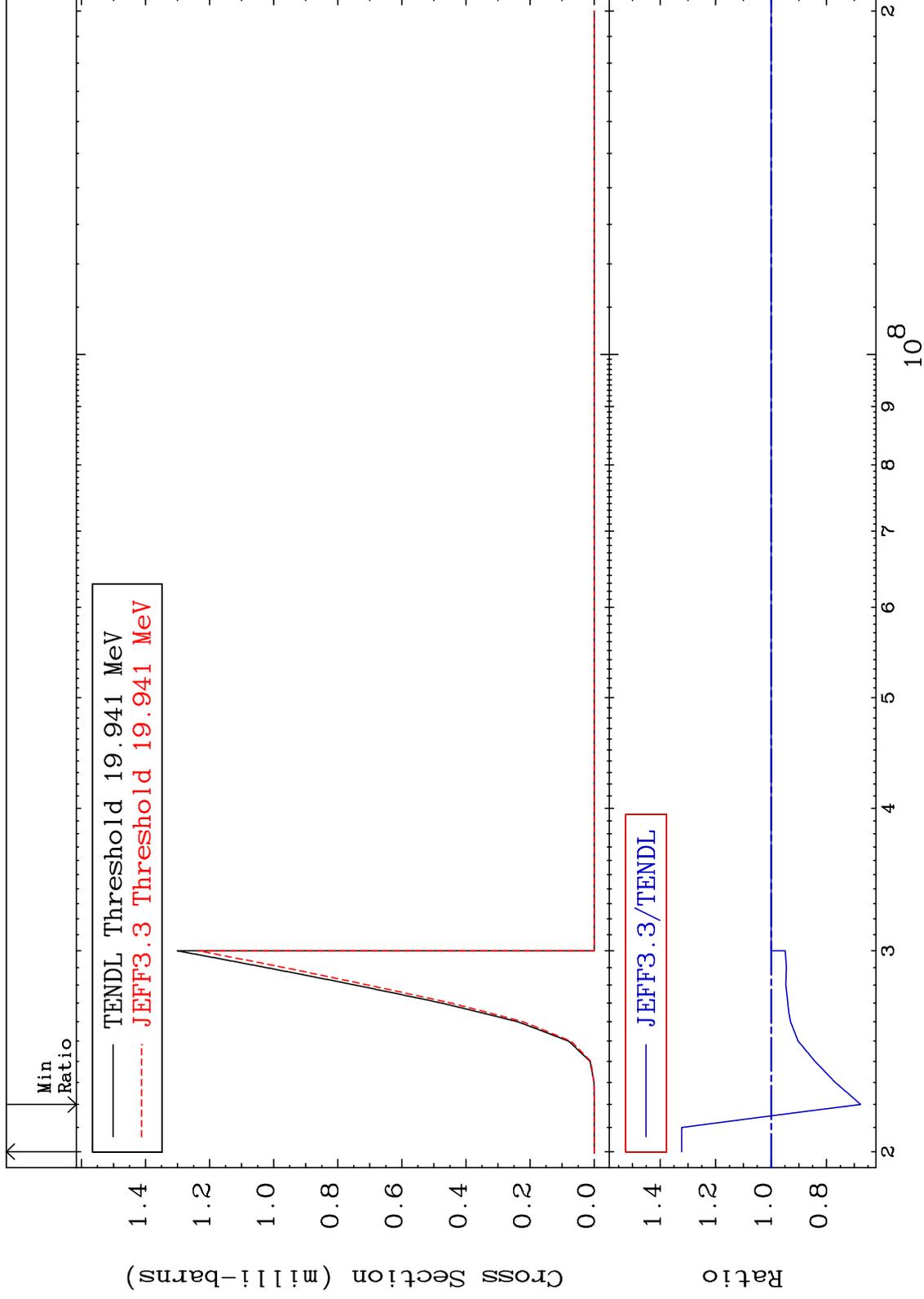
MAT 2031

(n,p) t

20-Ca-42

Cross Section

-32.30 To 32.22 %



60

Incident Energy (eV)

20-Ca-42

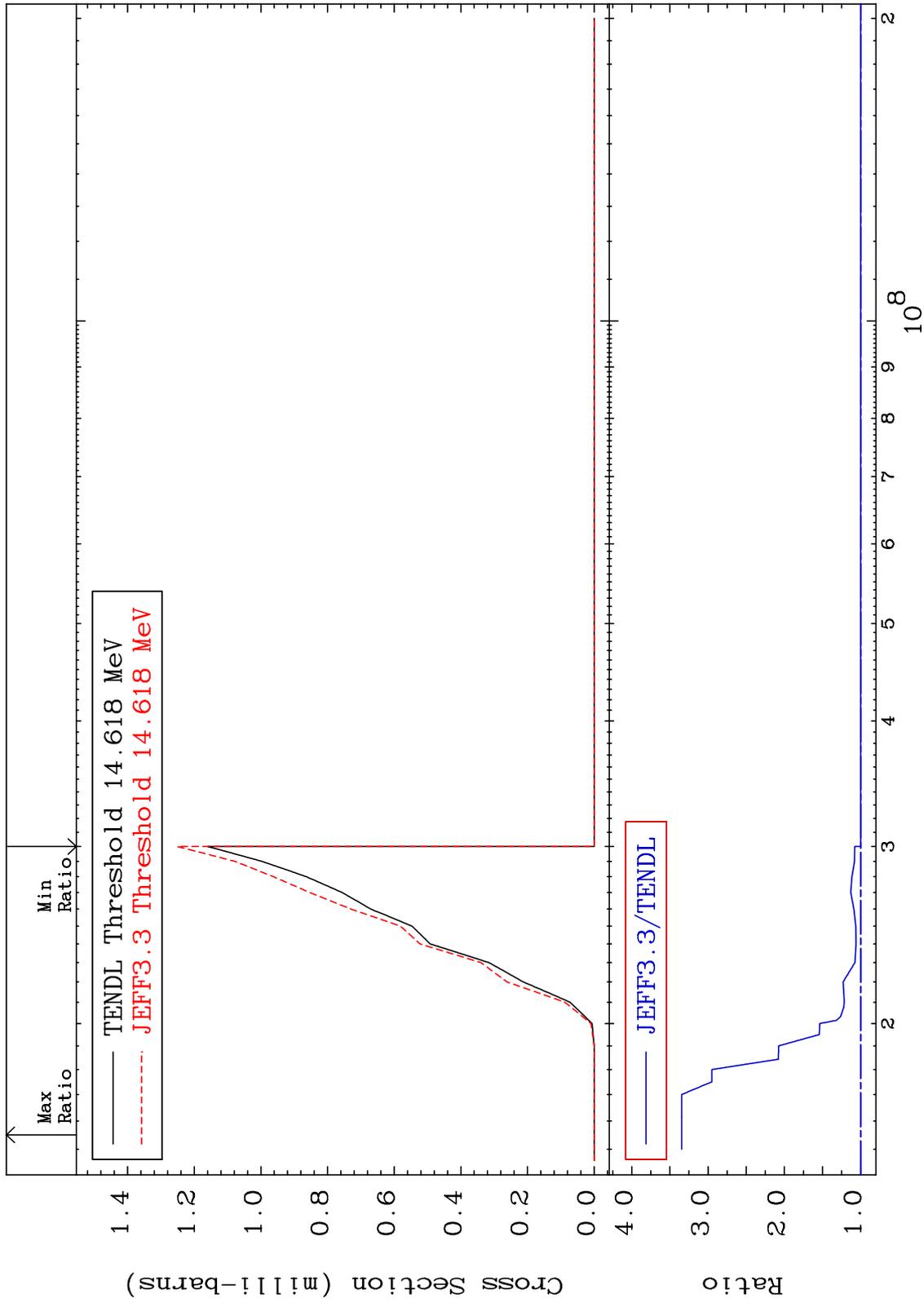
MAT 2031

(n,d) α

20-Ca-42

Cross Section

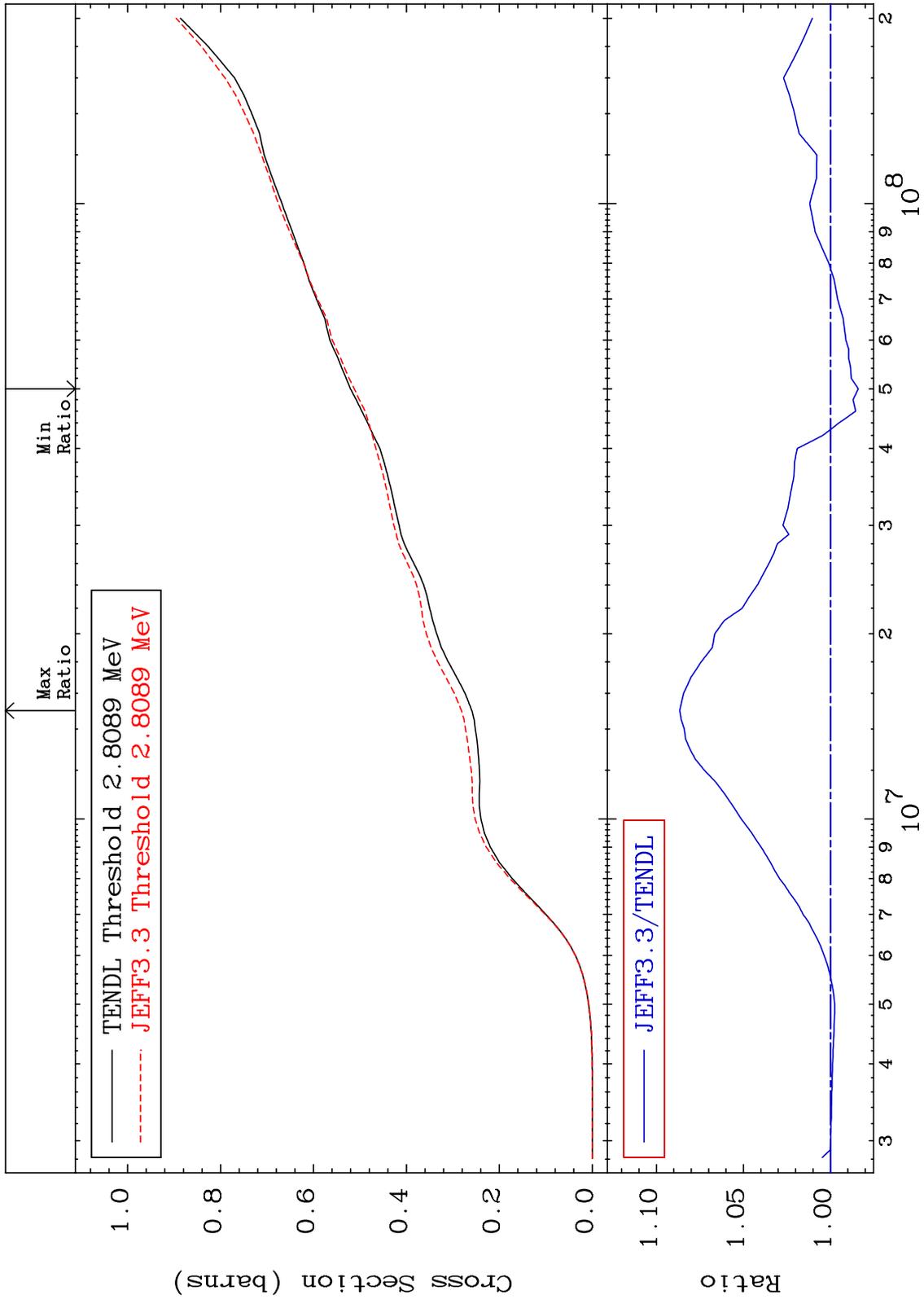
0.000 To 234.5 %



MAT 2031

Hydrogen Production
Cross Section

20-Ca-42
-1.602 To 8.661 %



62

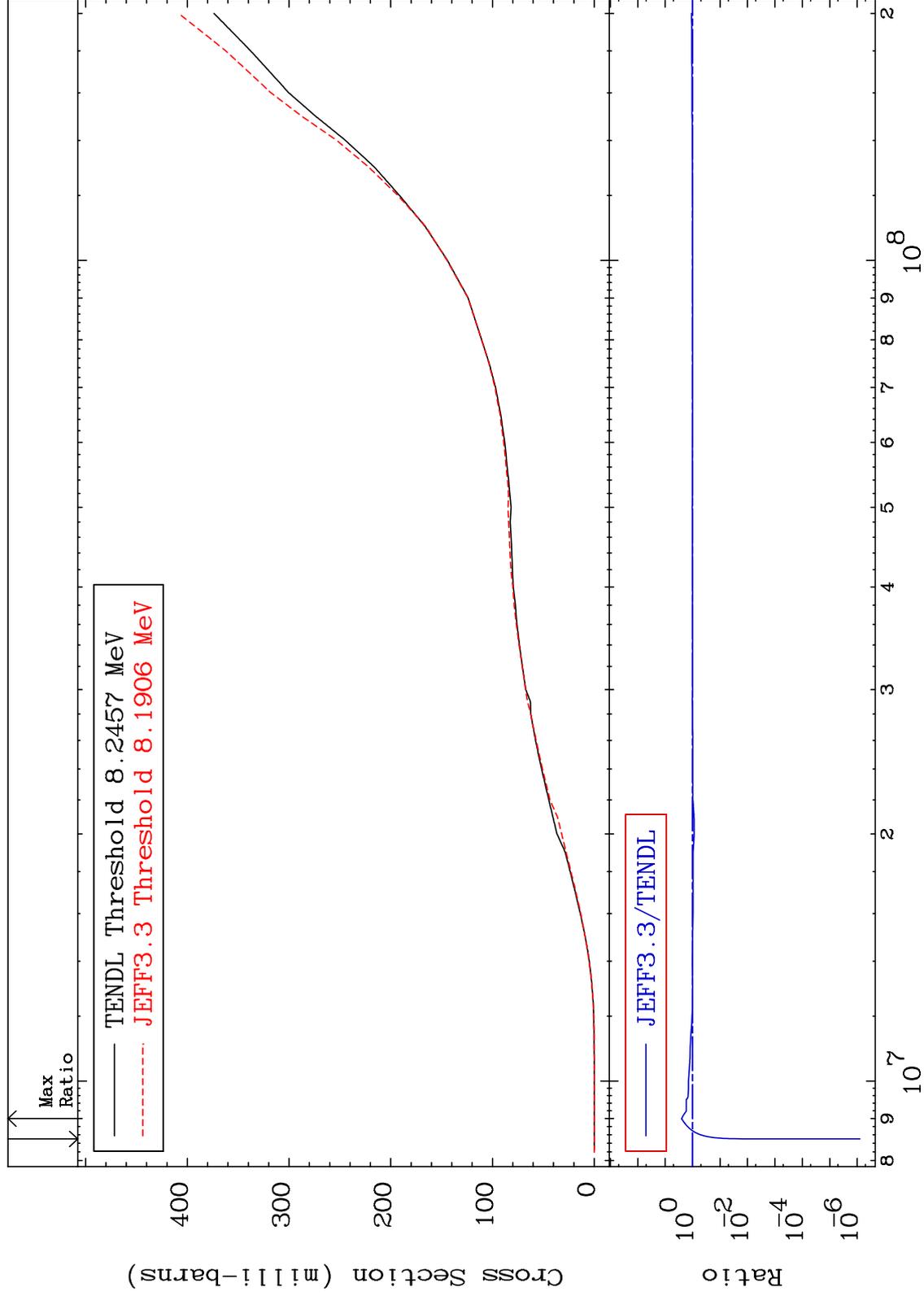
Incident Energy (eV)

20-Ca-42

MAT 2031

Deuterium Production
Cross Section

20-Ca-42
-100.0 To 153.5 %



63

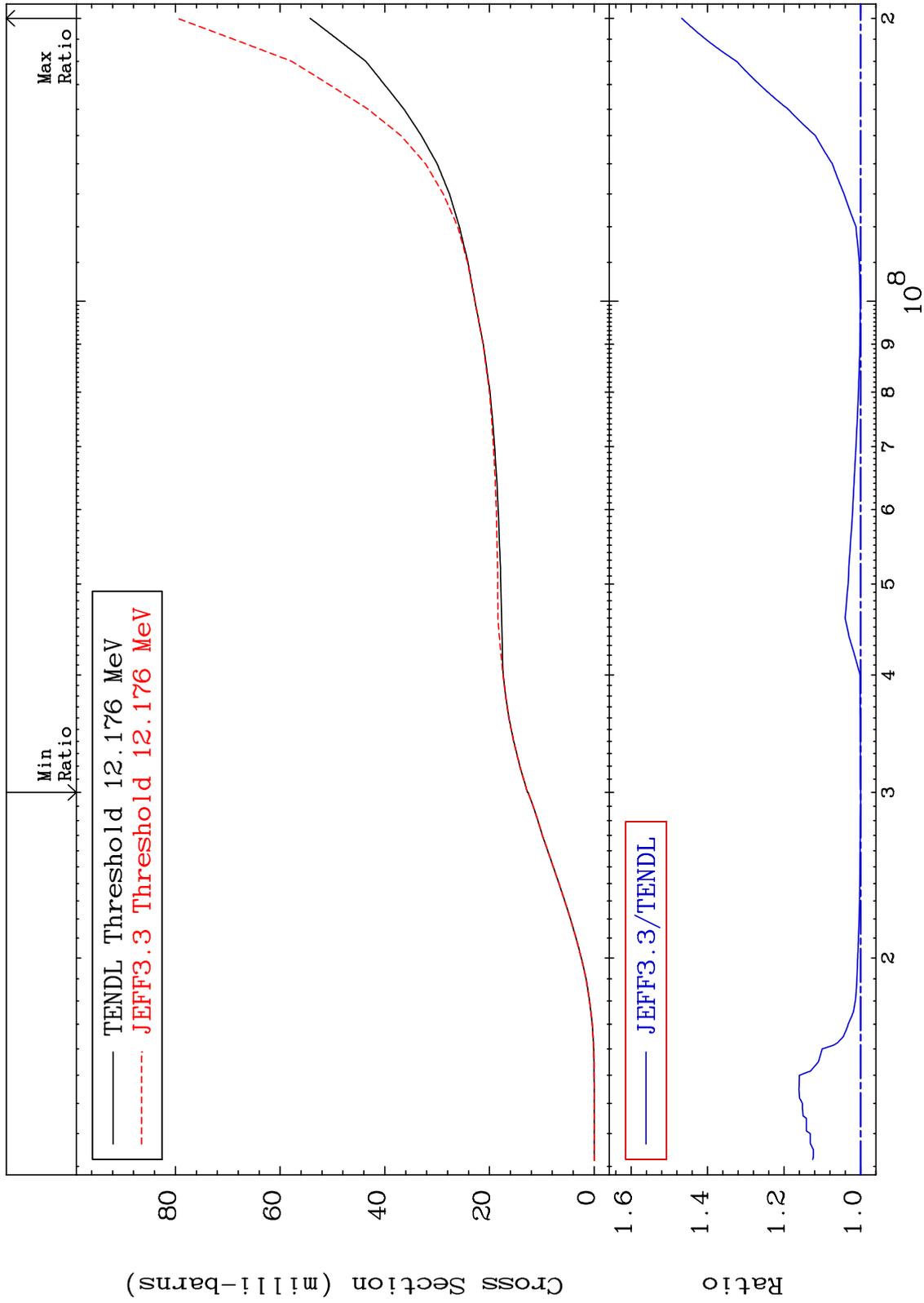
Incident Energy (eV)

20-Ca-42

MAT 2031

Tritium Production
Cross Section

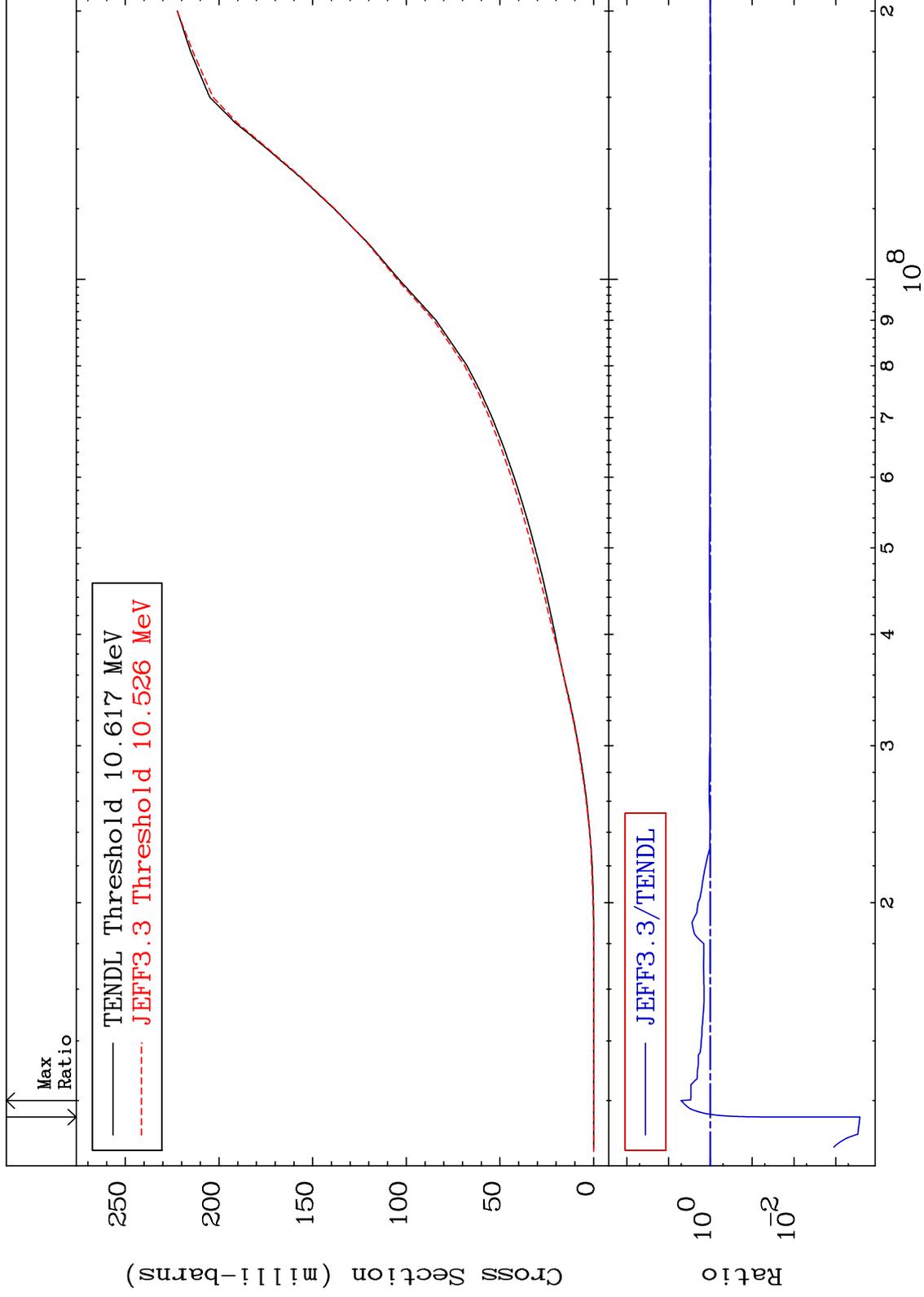
20-Ca-42
-0.031 To 46.75 %



MAT 2031

He-3 Production
Cross Section

20-Ca-42
-99.97 To 402.3 %



65

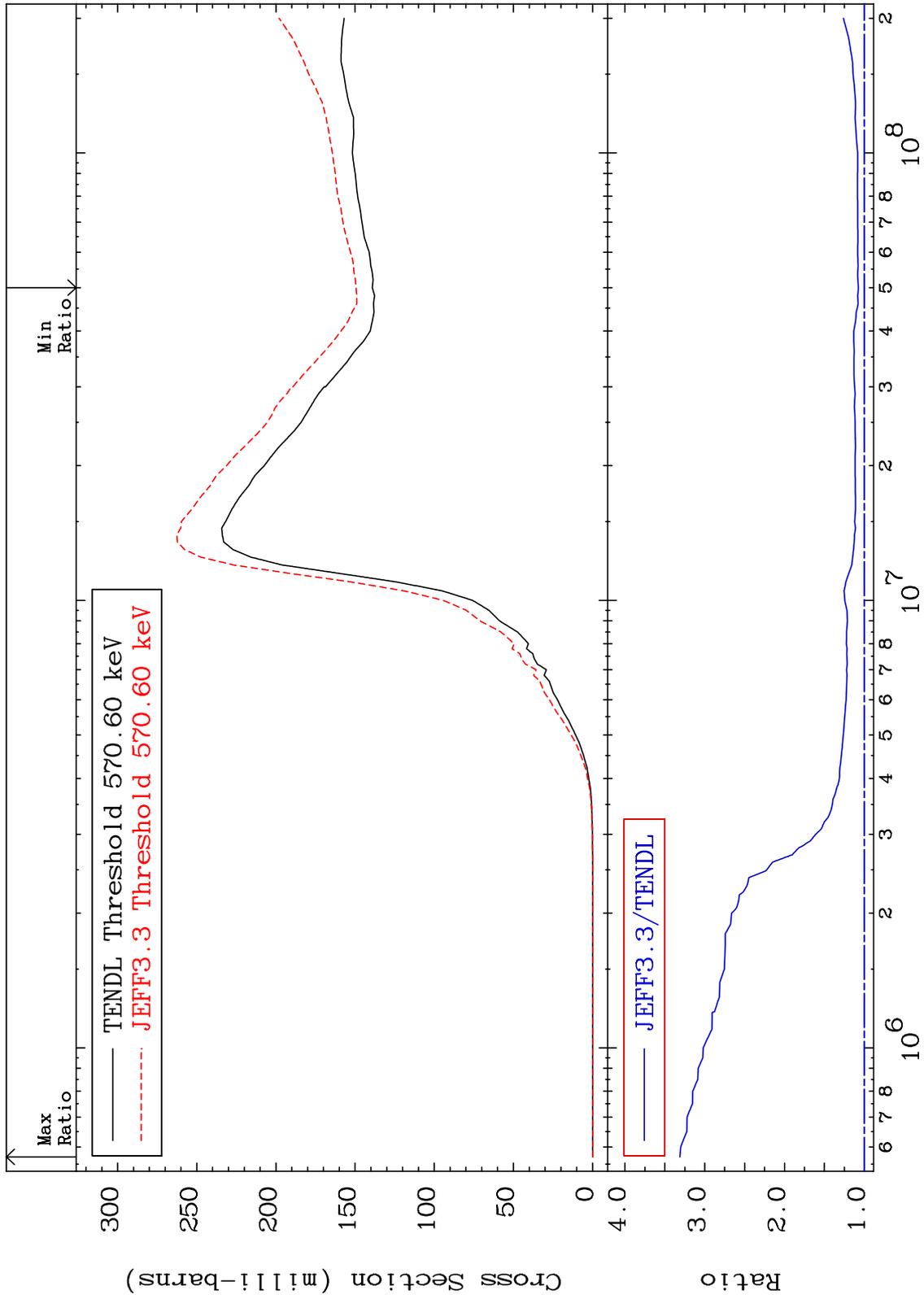
Incident Energy (eV)

20-Ca-42

MAT 2031

He-4 Production
Cross Section

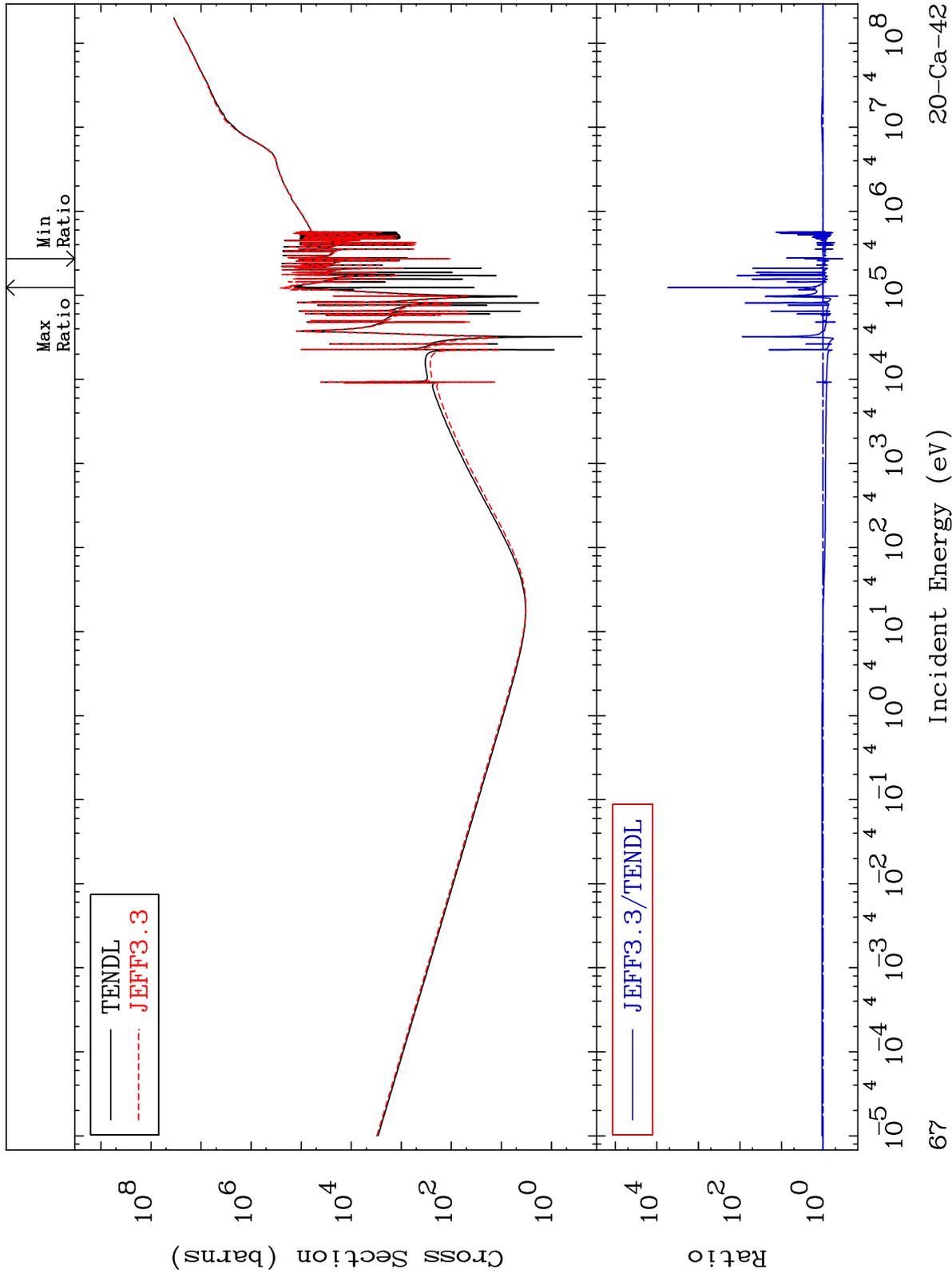
20-Ca-42
7.372 To 231.1 %



MAT 2031

Kerma total (eV-barns)
Cross Section

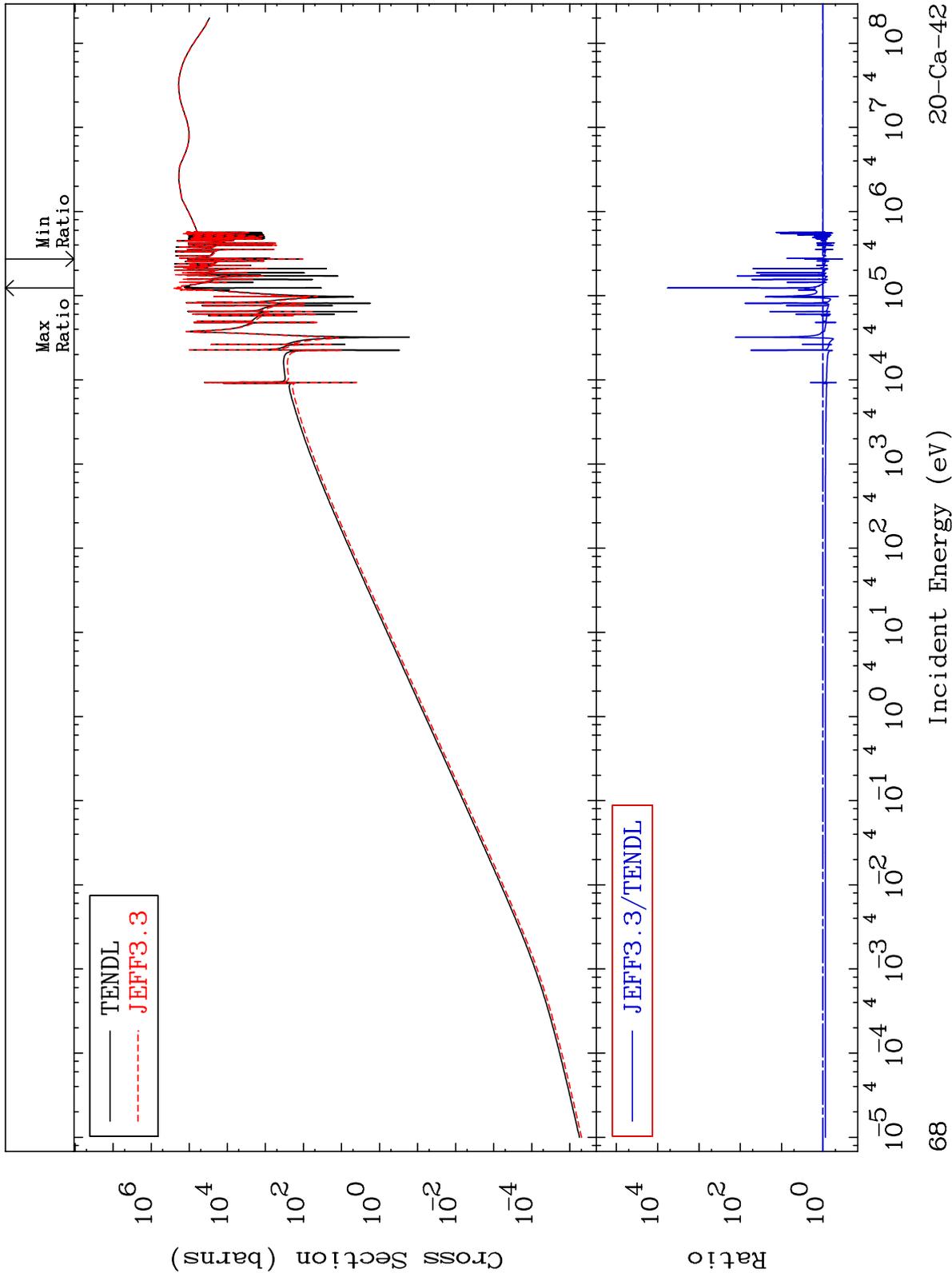
20-Ca-42
-66.64 To 9999. %



MAT 2031

Kerma elastic
Cross Section

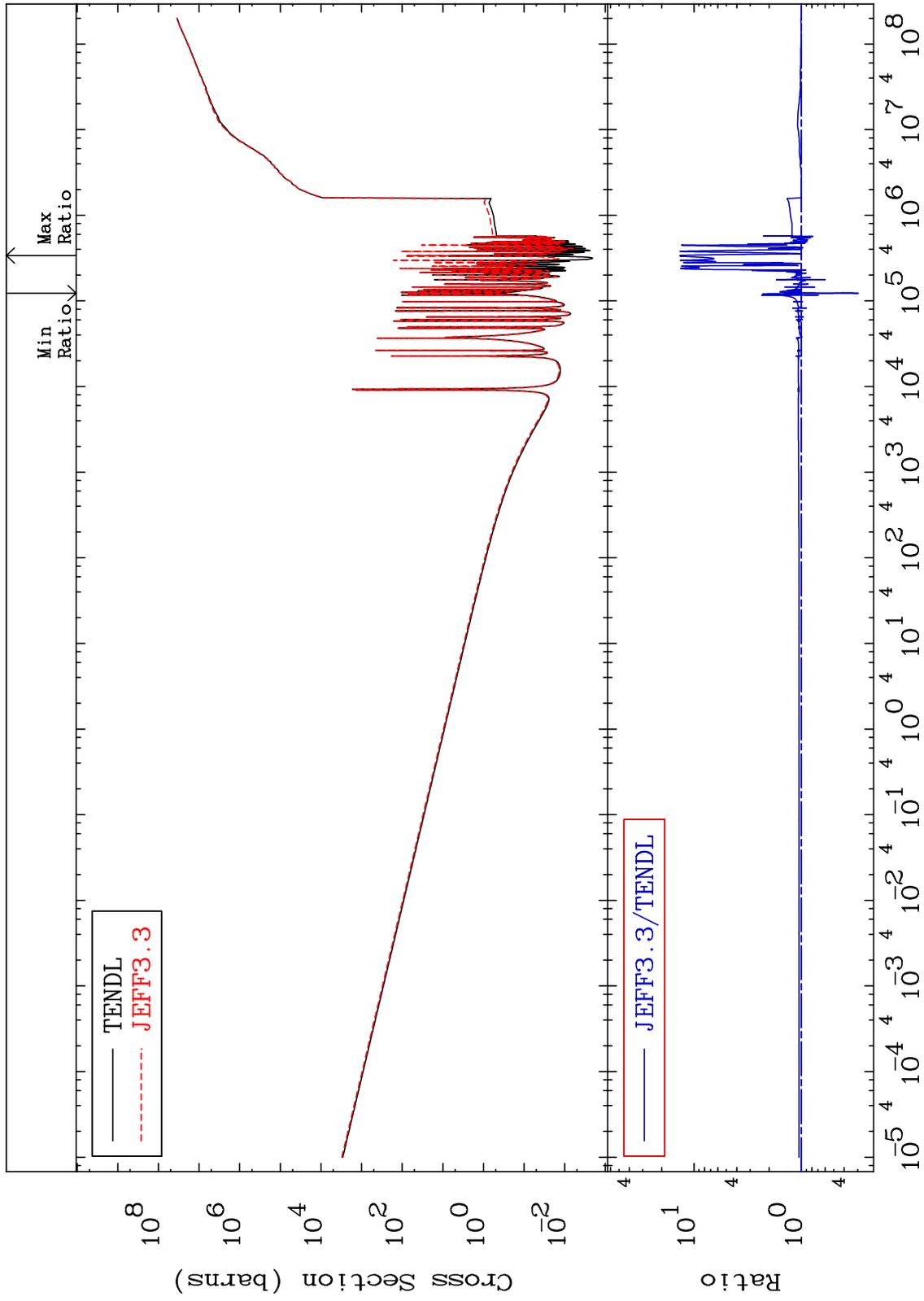
20-Ca-42
-66.68 To 9999. %



MAT 2031

Kerma non-elastic (all but mt2)
Cross Section

20-Ca-42
-70.51 To 1252. %



69

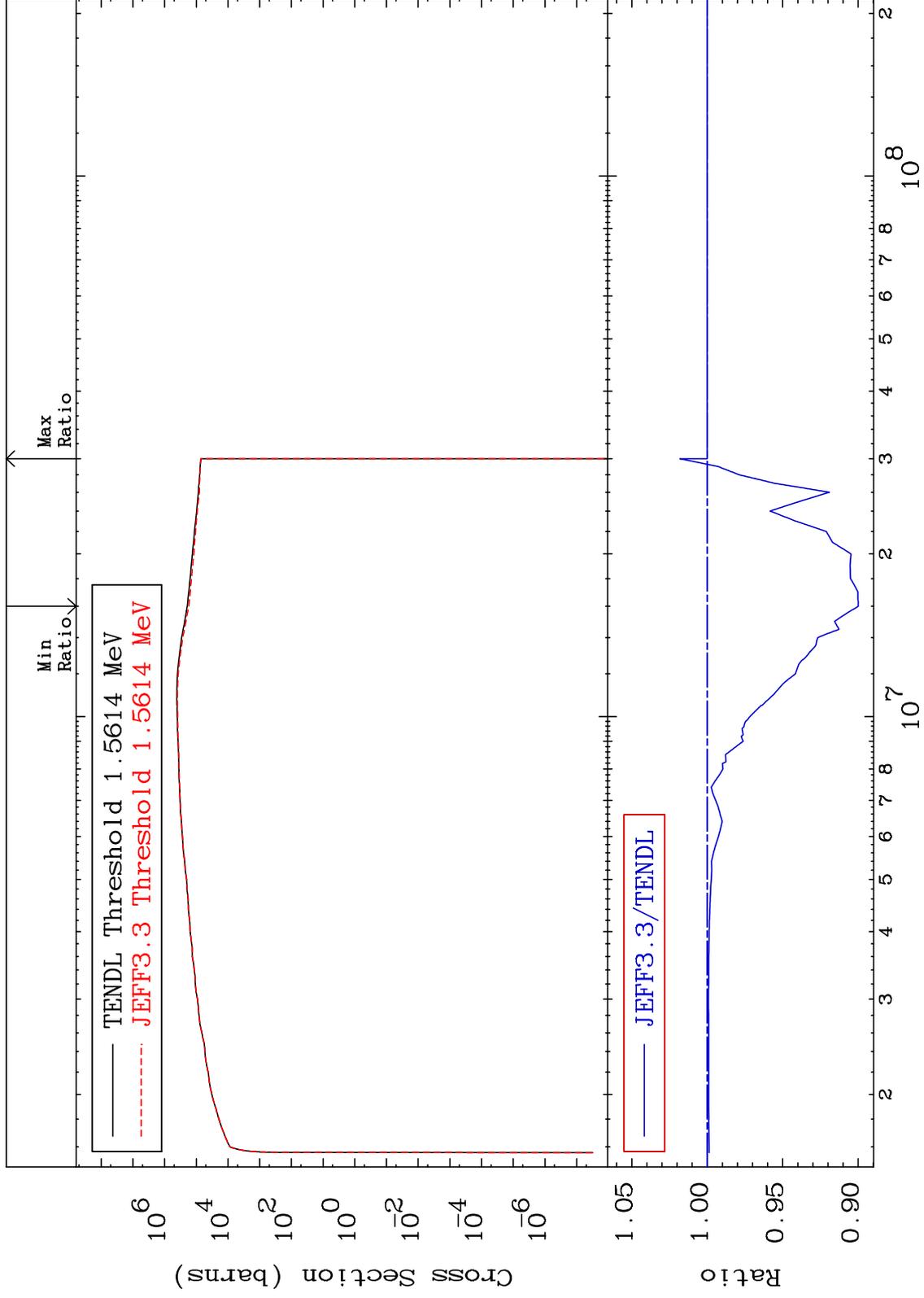
Incident Energy (eV)

20-Ca-42

MAT 2031

Kerma inelastic (mt51-91)
Cross Section

20-Ca-42
-10.01 To 1.809 %



70

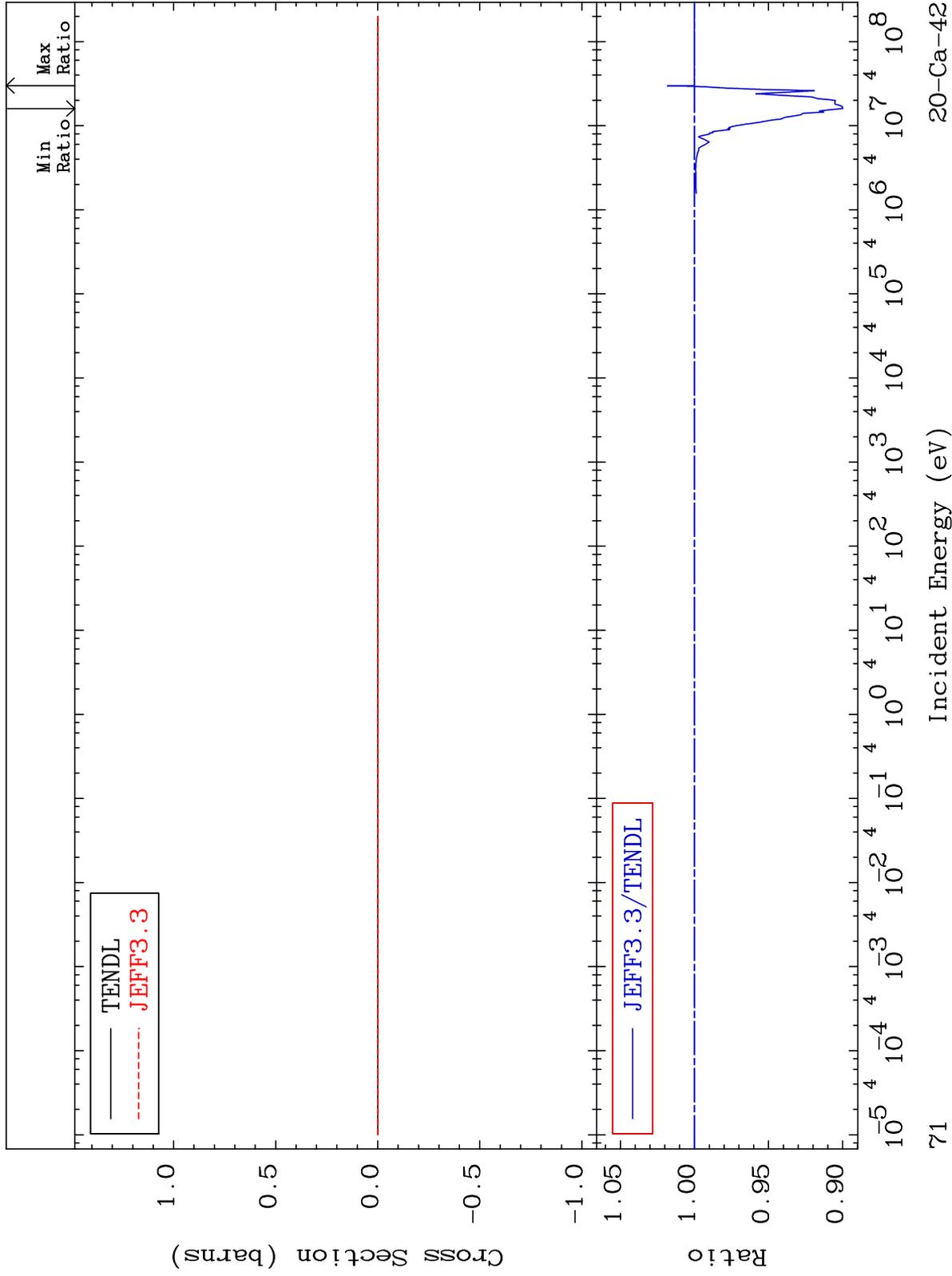
Incident Energy (eV)

20-Ca-42

MAT 2031

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

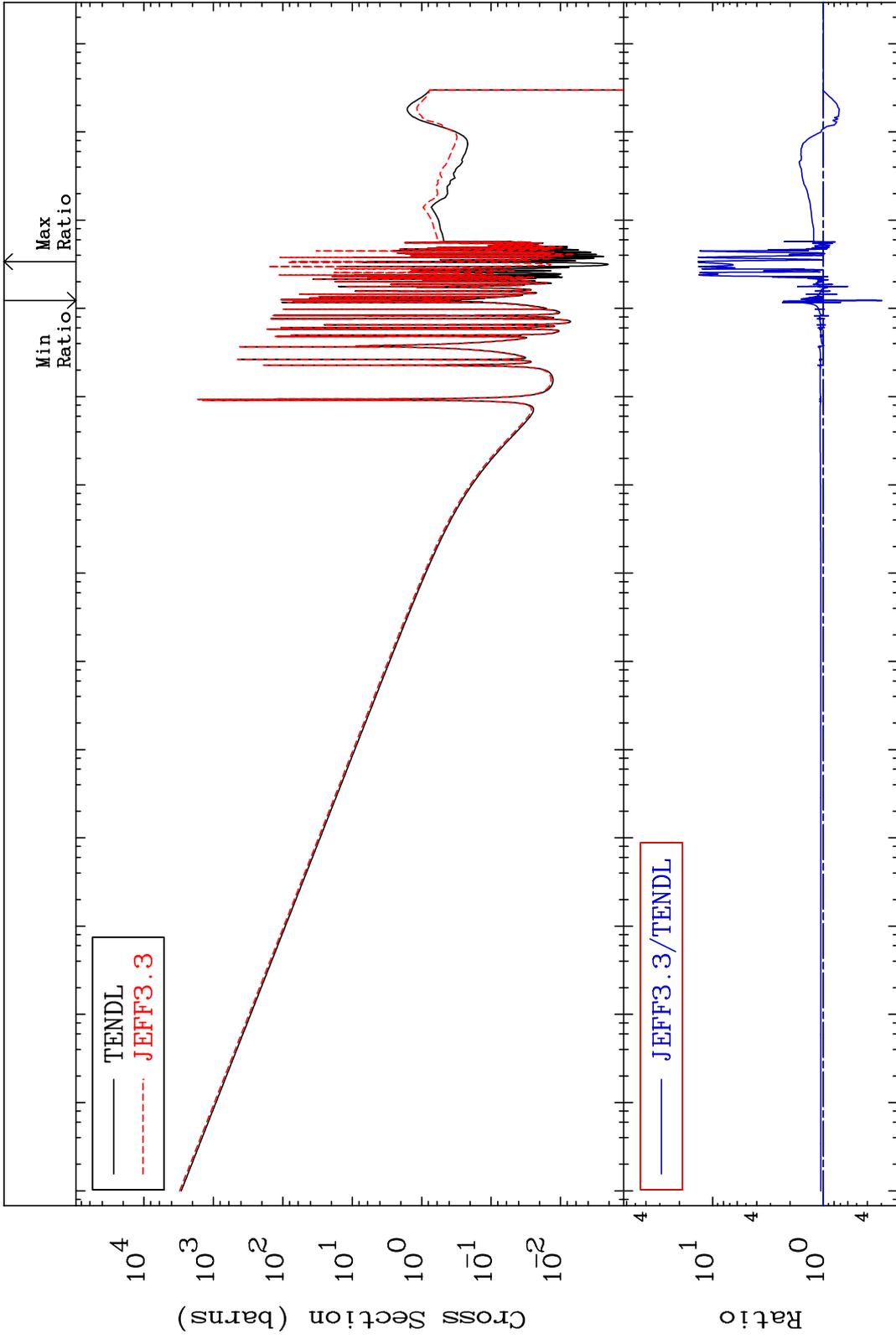
20-Ca-42
-10.01 To 1.809 %



MAT 2031

Kerma capture (mt102)
Cross Section

20-Ca-42
-70.51 To 1252. %



72

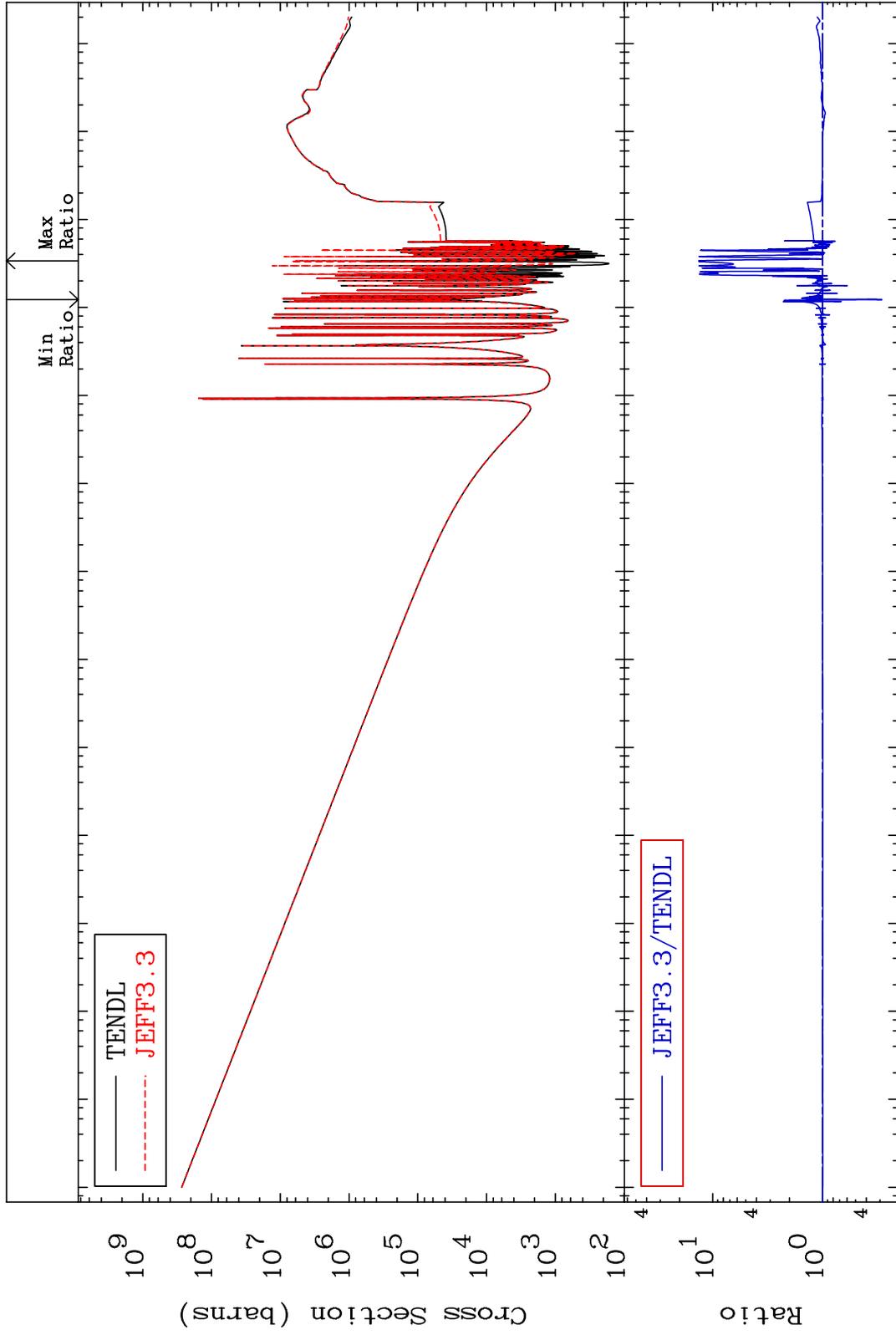
Incident Energy (eV)

20-Ca-42

MAT 2031

Total photon (eV-barns)
Cross Section

20-Ca-42
-71.25 To 1242. %



20-Ca-42

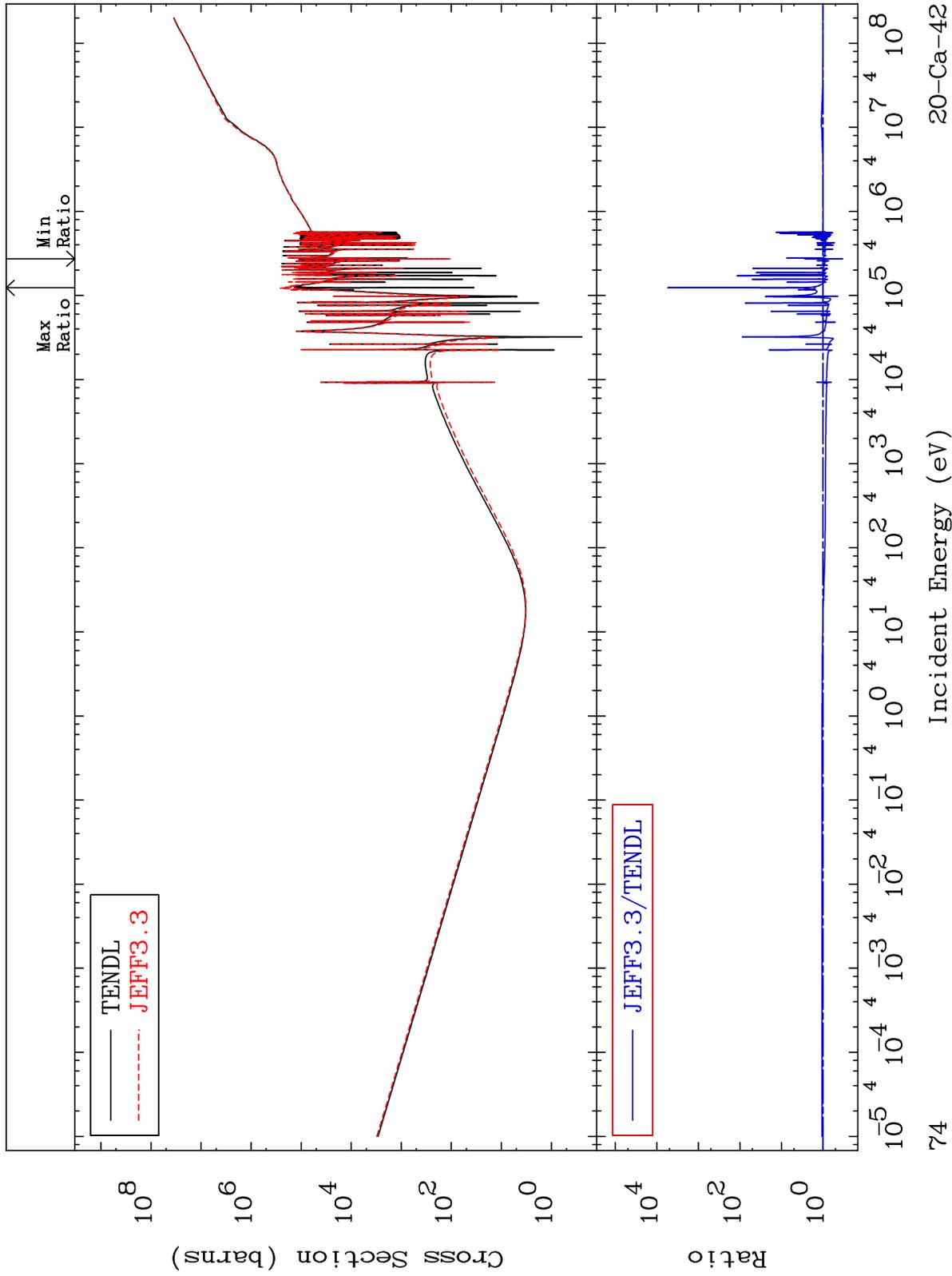
Incident Energy (eV)

73

MAT 2031

Total kinematic kerma (high limit)
Cross Section

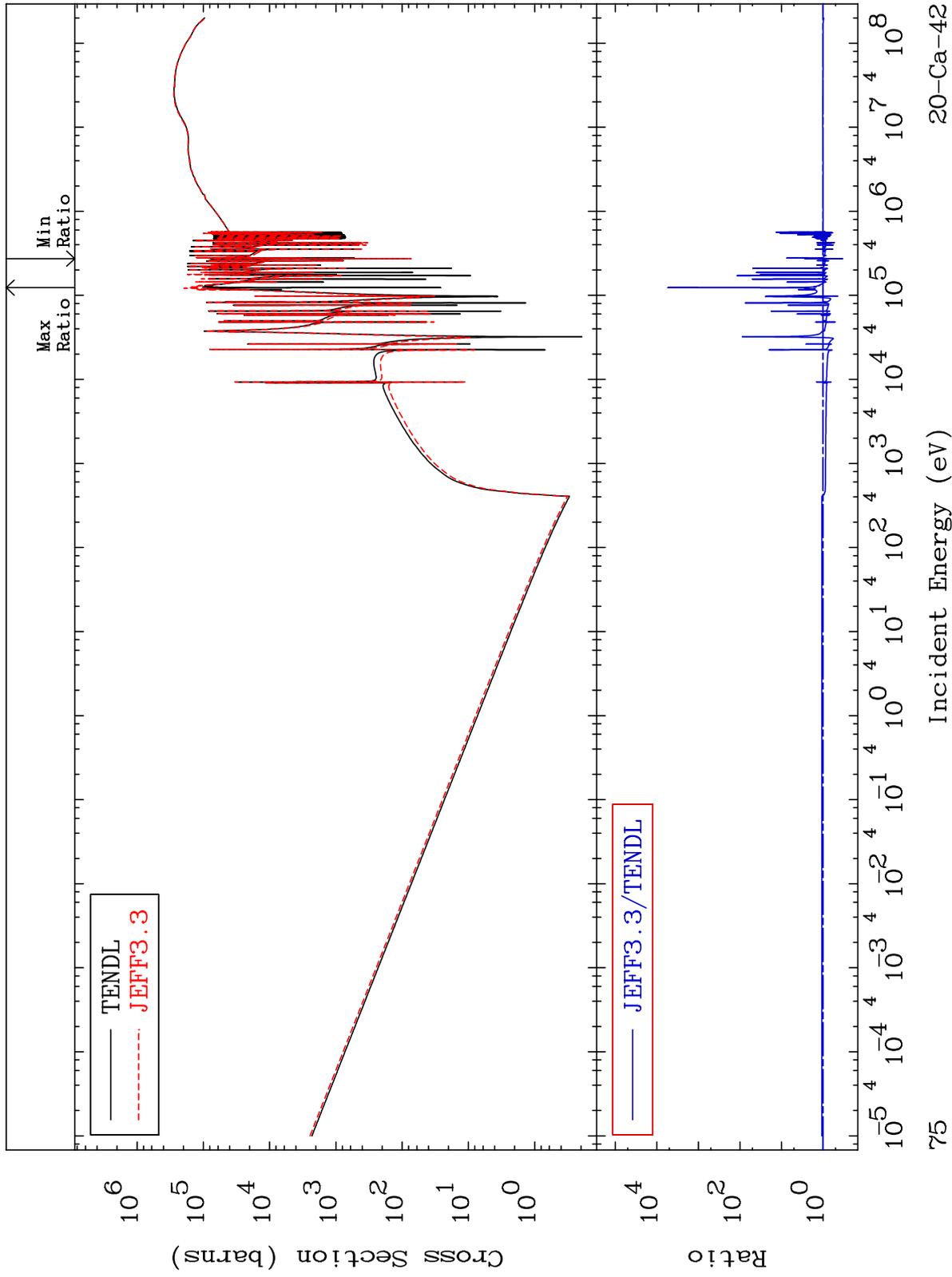
20-Ca-42
-66.64 To 9999. %



MAT 2031

Dpa total (eV-barns)
Cross Section

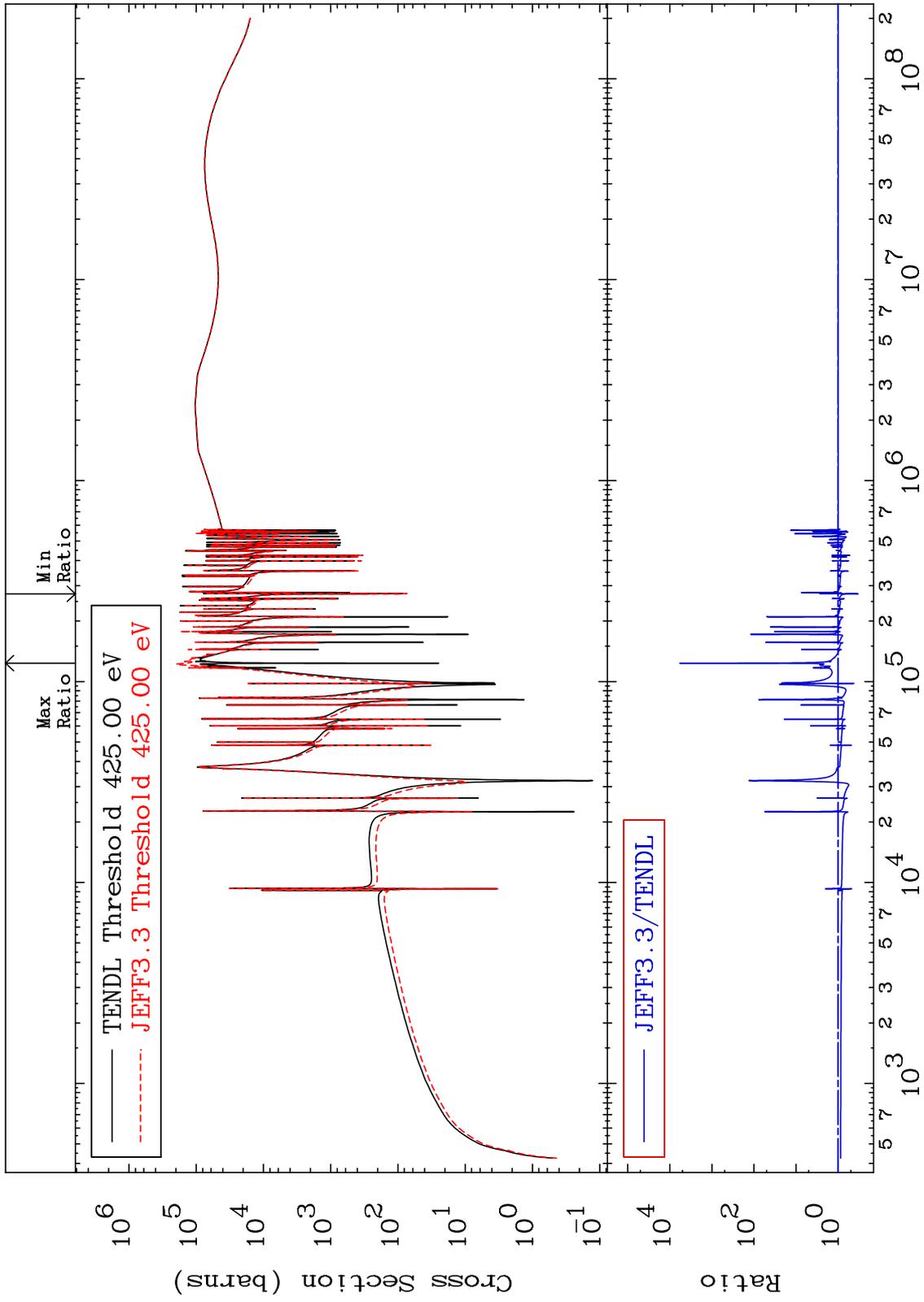
20-Ca-42
-66.64 To 9999. %



MAT 2031

Dpa elastic (mt2)
Cross Section

20-Ca-42
-66.68 To 9999. %

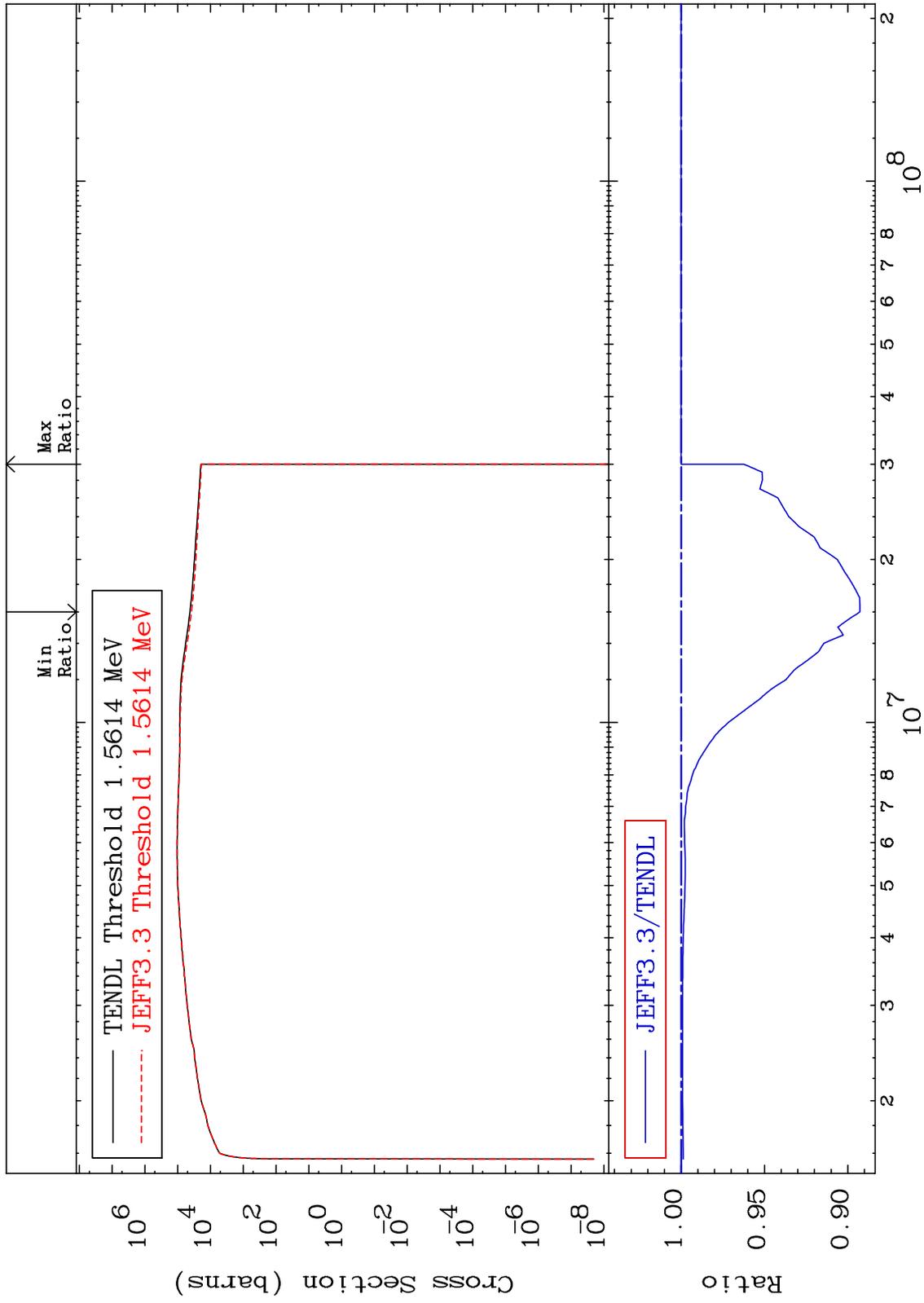


76

MAT 2031

Dpa inelastic (mt51-91)
Cross Section

20-Ca-42
-10.72 To 0.000 %



77

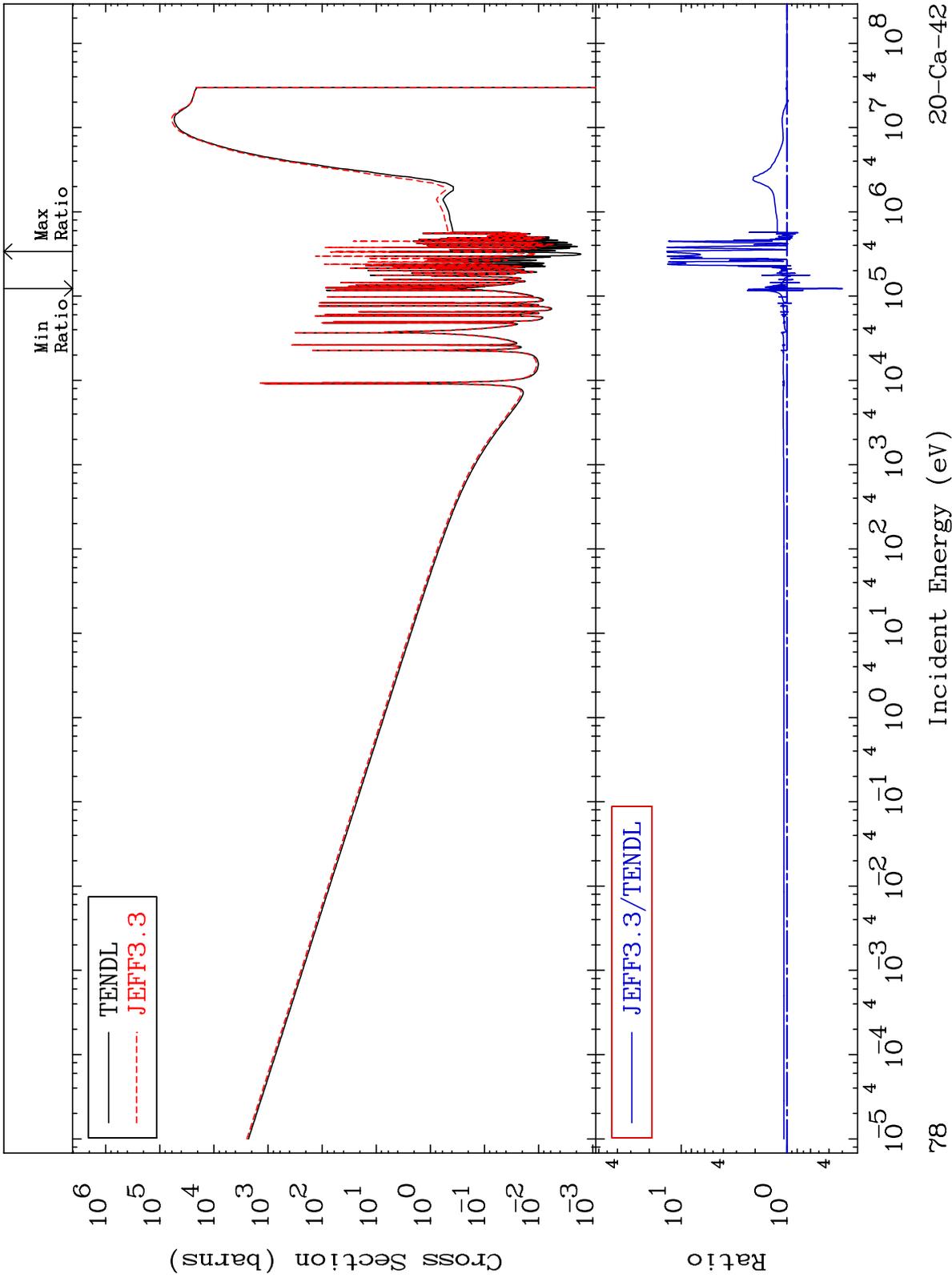
Incident Energy (eV)

20-Ca-42

MAT 2031

Dpa disappearance (mt102 -120)
Cross Section

20-Ca-42
-70.20 To 1264. %



78

Incident Energy (eV)

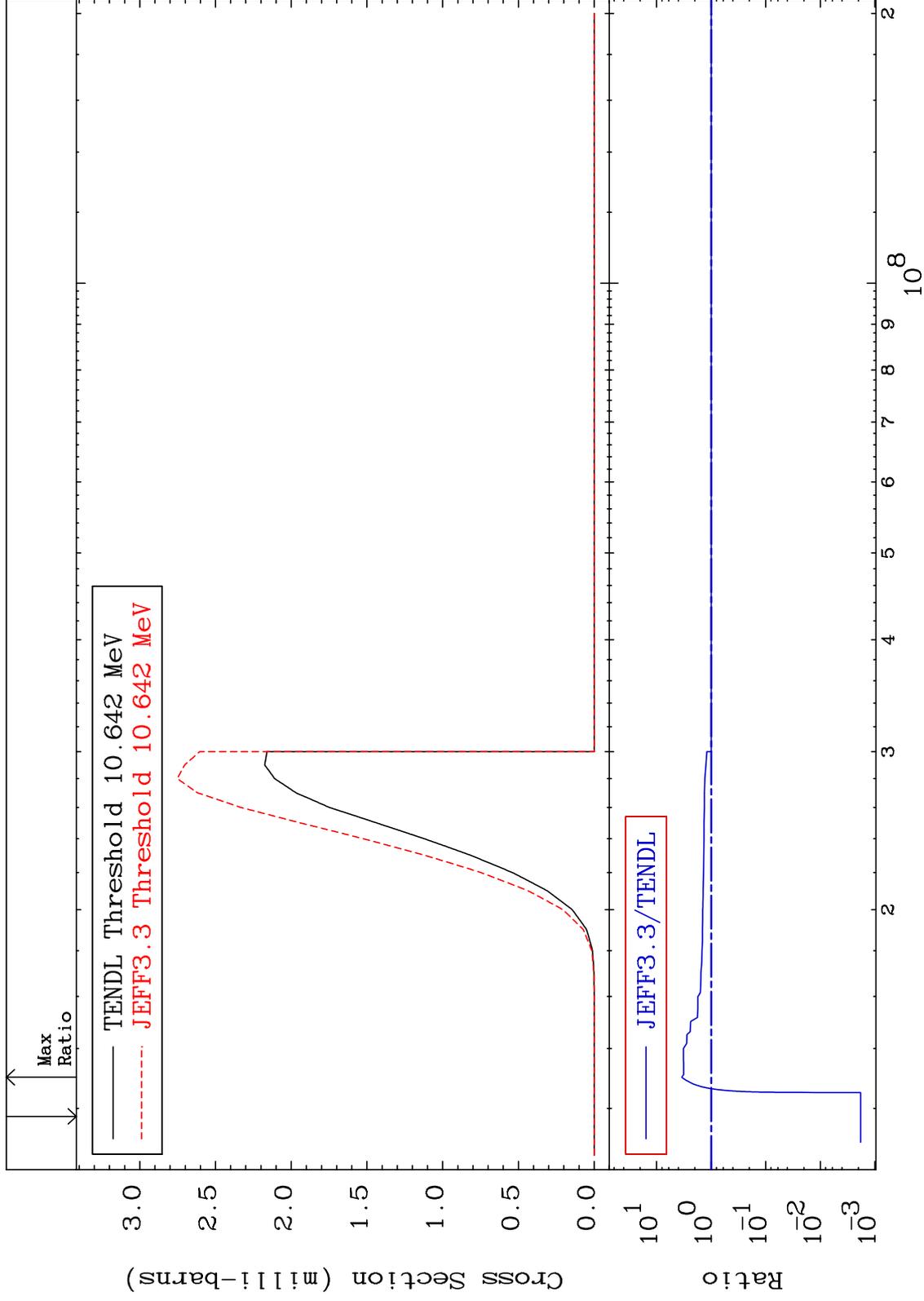
20-Ca-42

MAT 2031

(n,p) α :17-Cl-38g

20-Ca-42

Radionuclide Production Cross Section -99.82 To 246.2 %

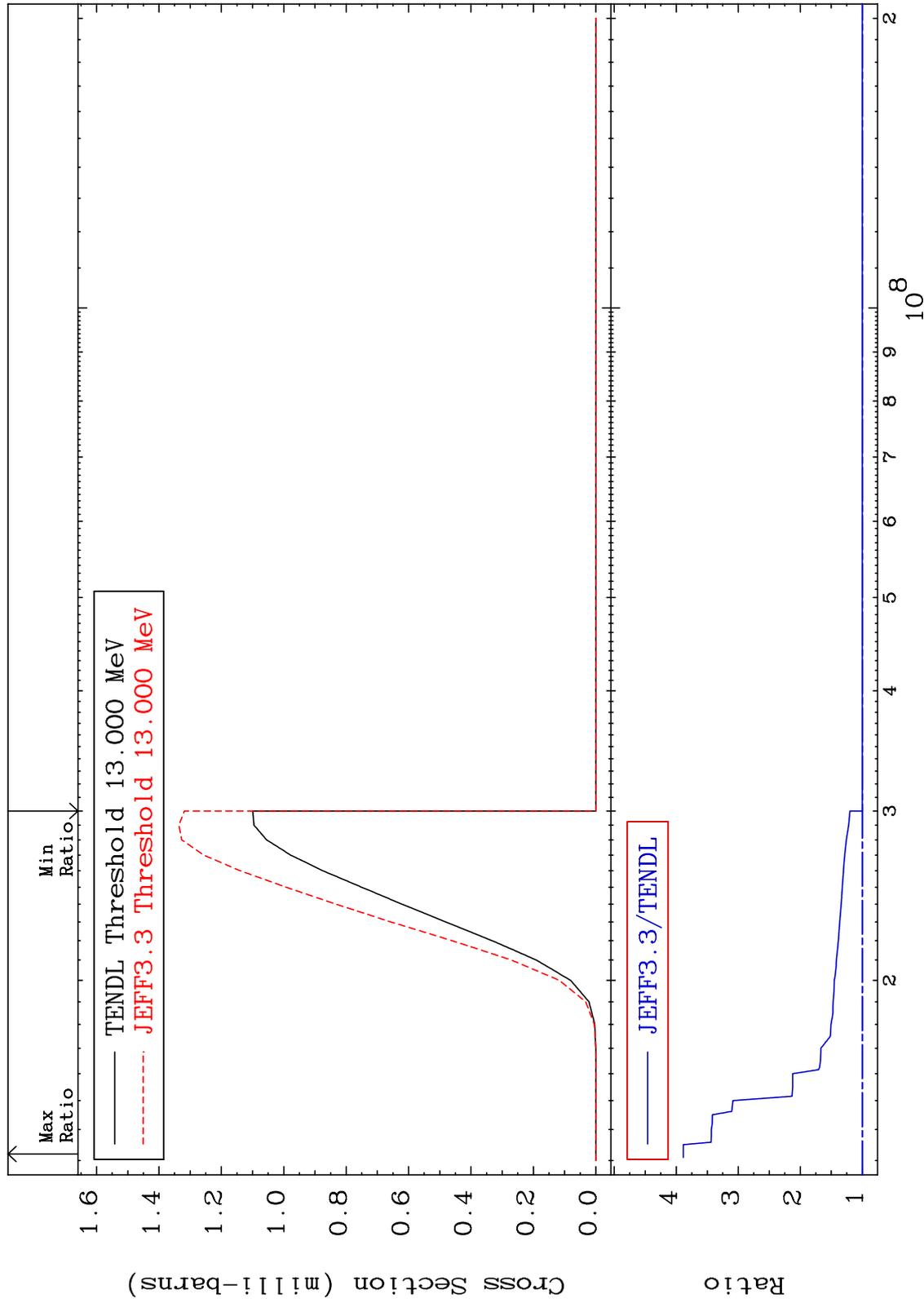


MAT 2031

(n, p) α : 17-Cl-38m1

20-Ca-42

Radionuclide Production Cross Section 0.000 To 288.6 %



80

Incident Energy (eV)

20-Ca-42