

Program Complot
(Version 2018-1)

by

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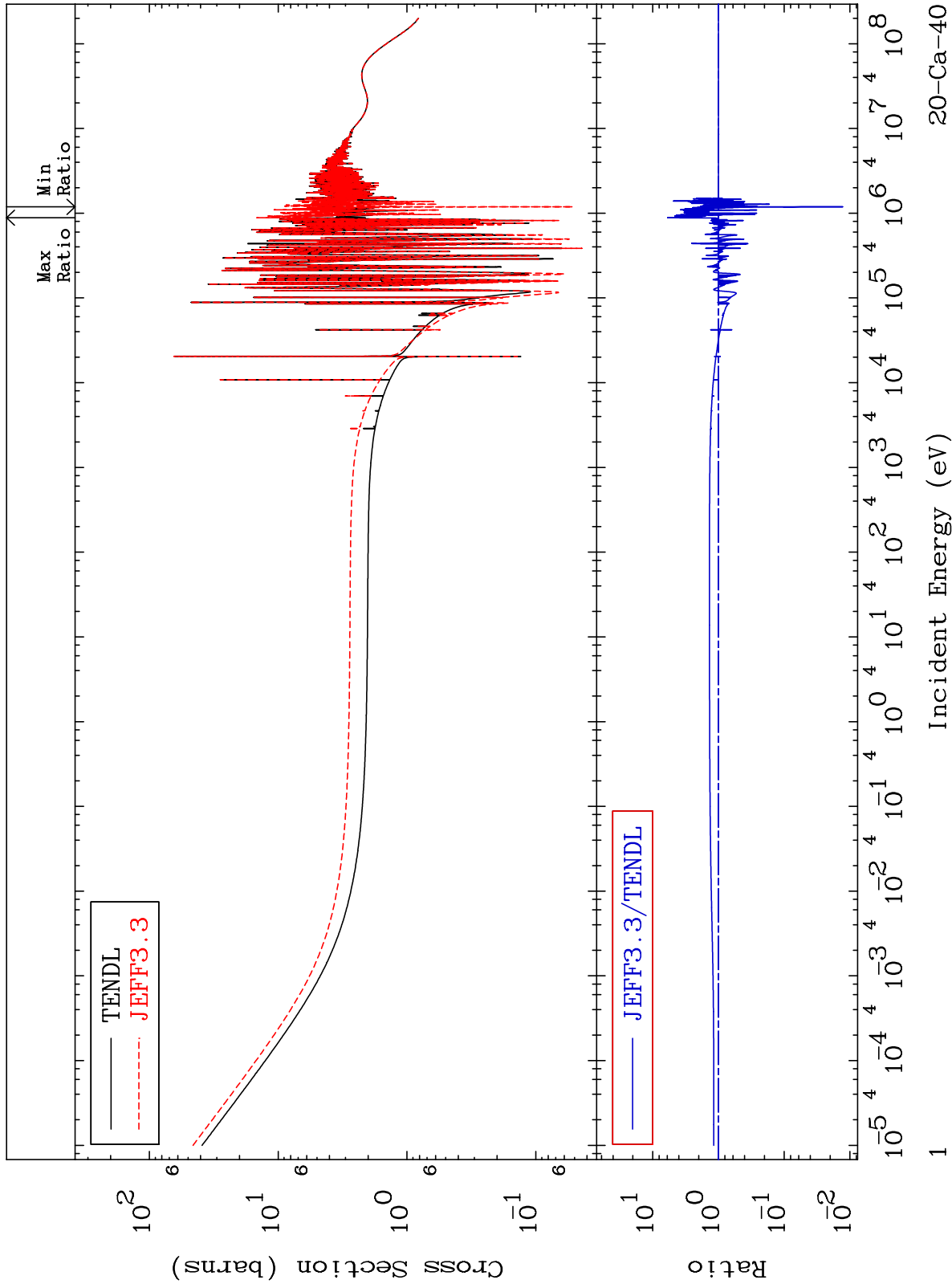
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 2025

Total
Cross Section

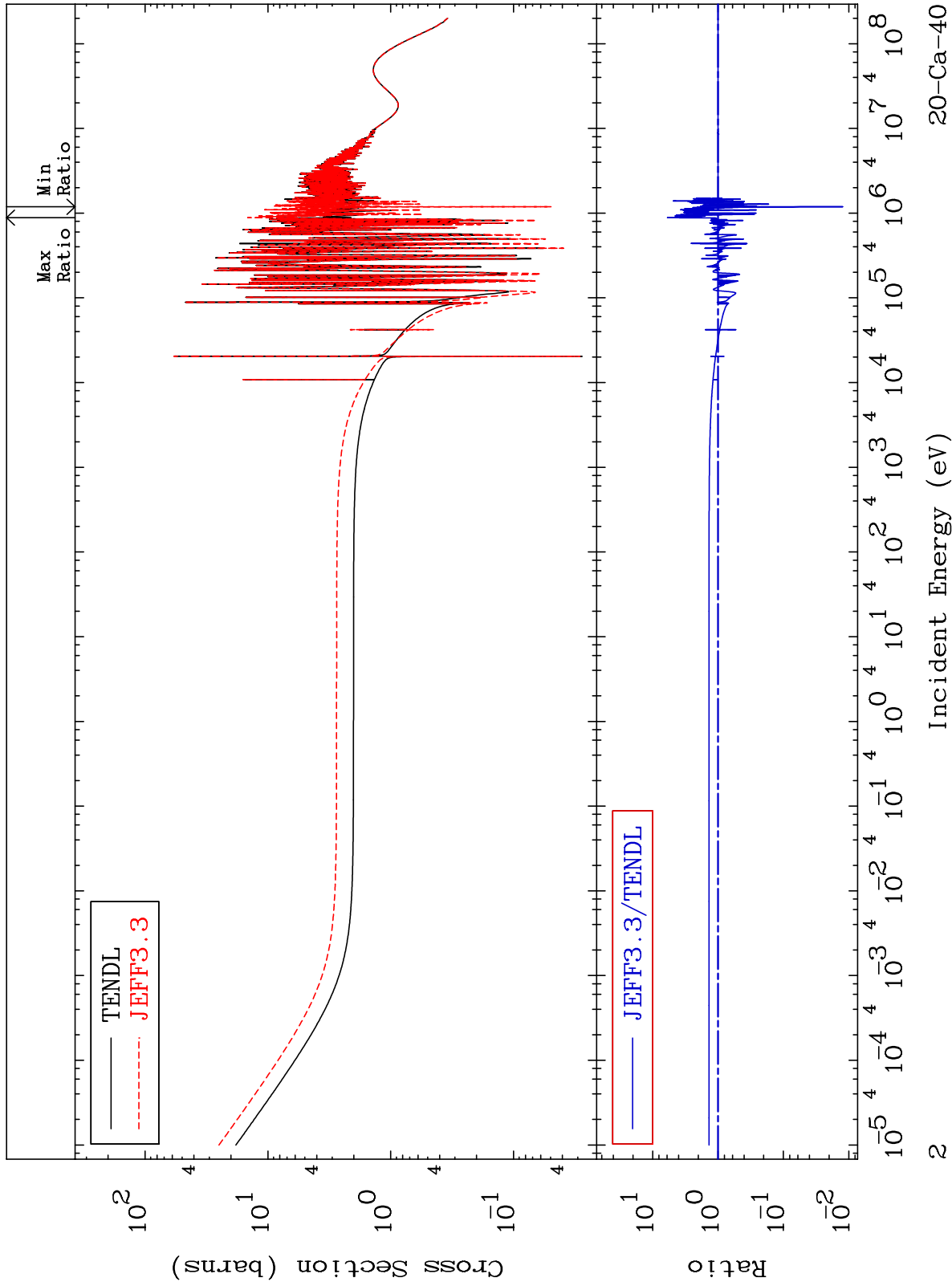
20-Ca-40
-98.71 To 493.8 %



MAT 2025

Elastic
Cross Section

20-Ca-40
-98.76 To 490.8 %



20-Ca-40

Incident Energy (eV)

2

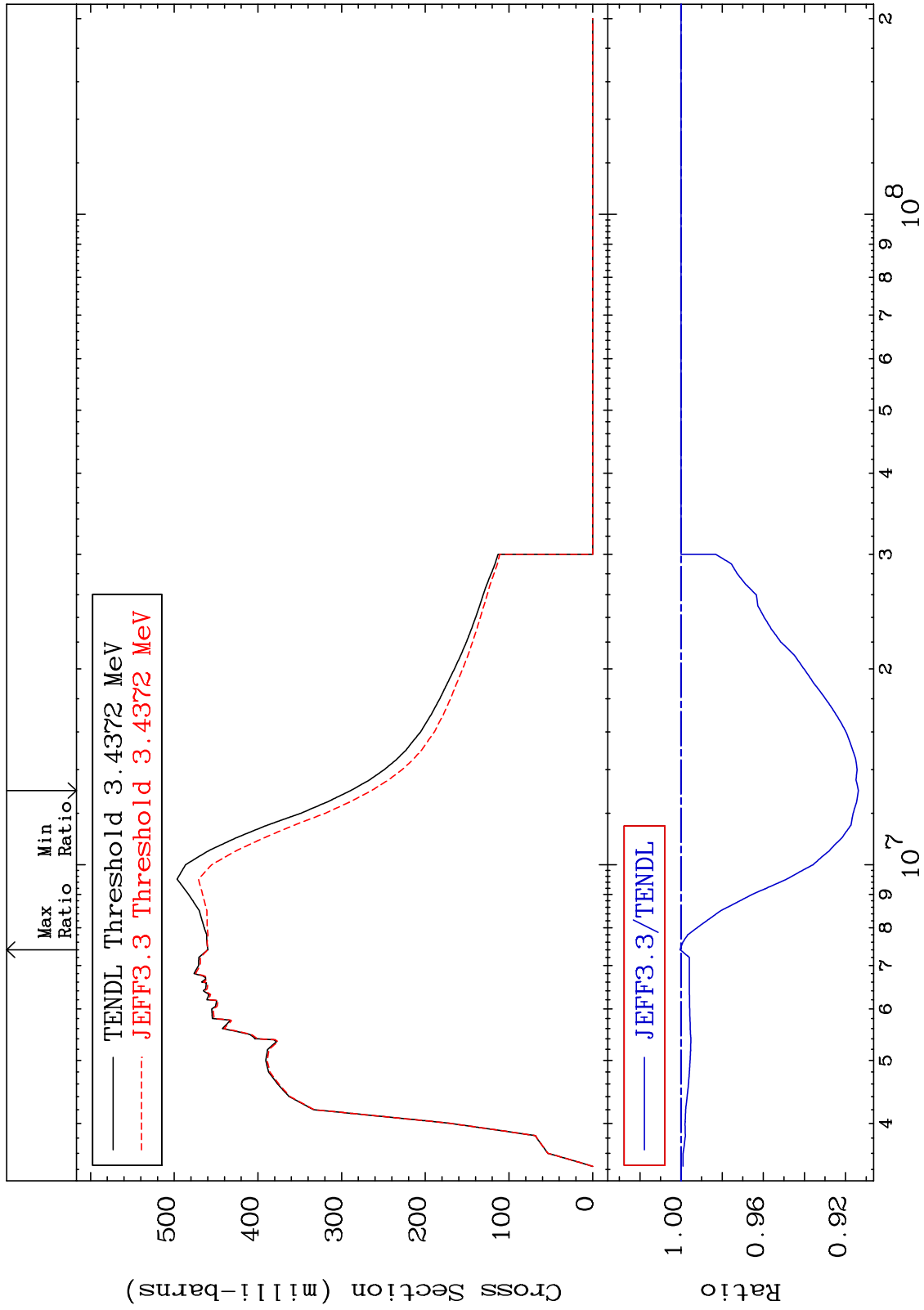
MAT 2025

Inelastic

20-Ca-40

Cross Section

-8.624 To 0.052 %



3

Incident Energy (eV)

20-Ca-40

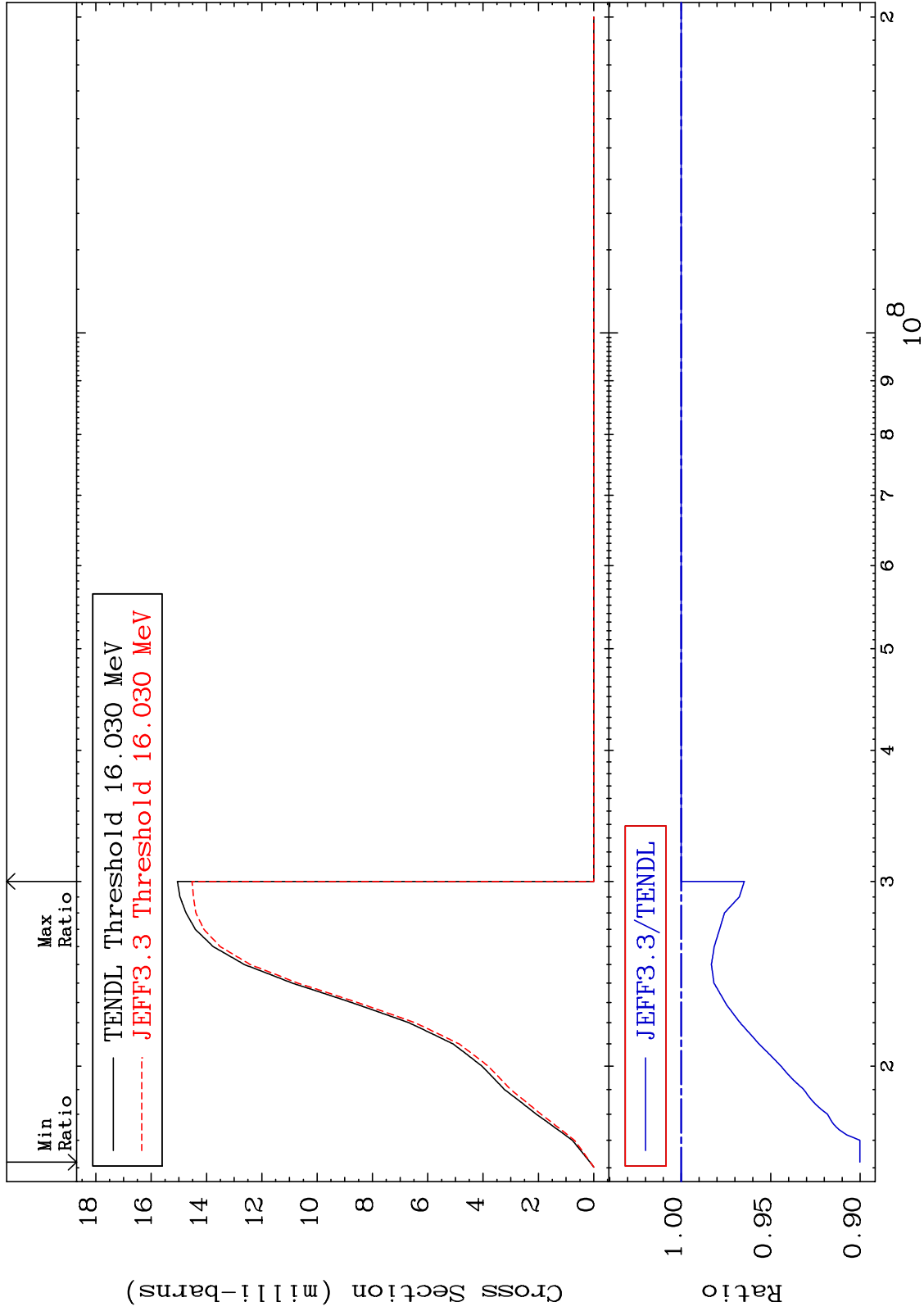
MAT 2025

(n, 2n)

20-Ca-40

Cross Section

-9.987 To 0.000 %



4

Incident Energy (eV)

20-Ca-40

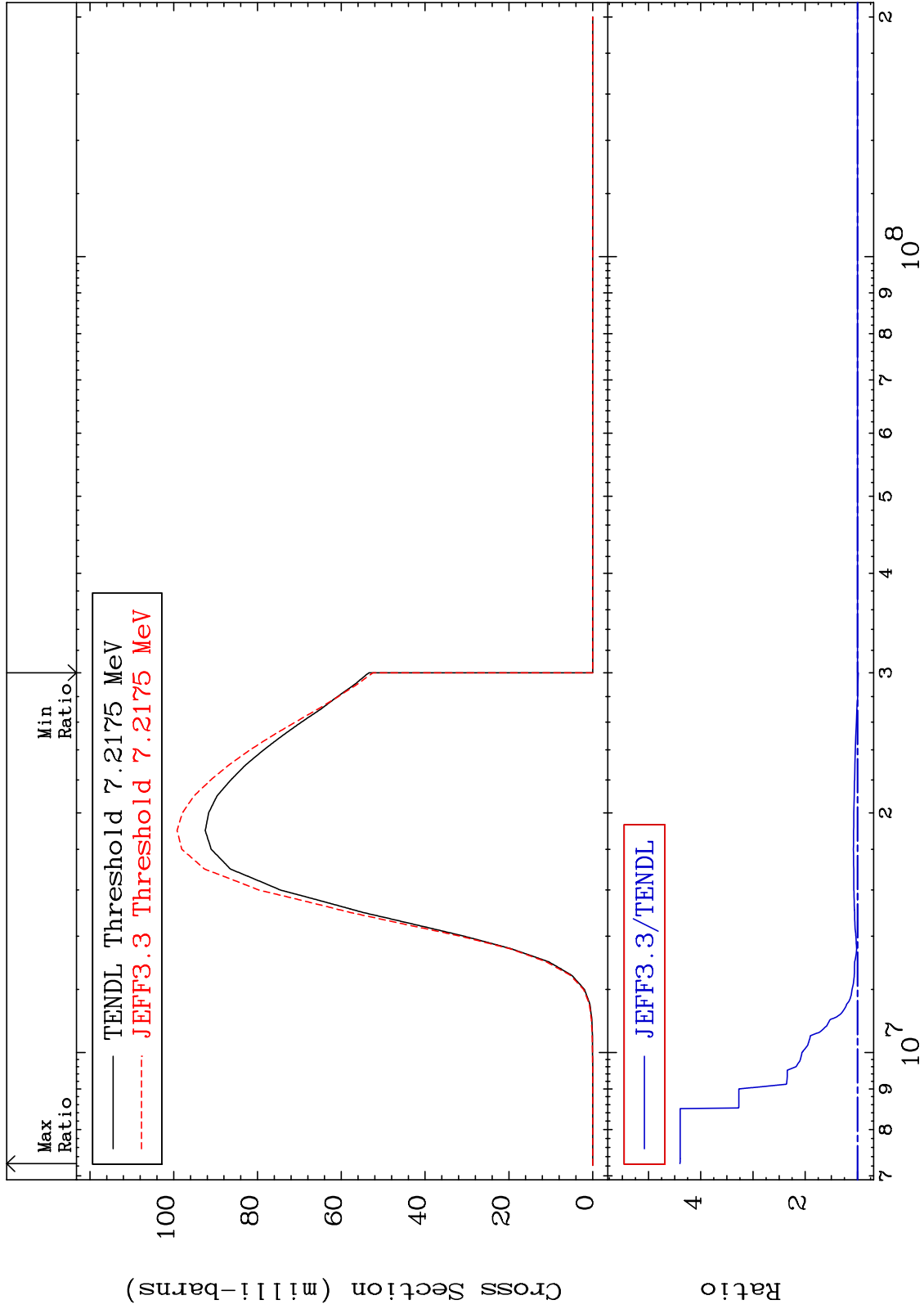
MAT 2025

(n, n') α

20-Ca-40

Cross Section

-1.826 To 339.7 %



Incident Energy (eV)

20-Ca-40

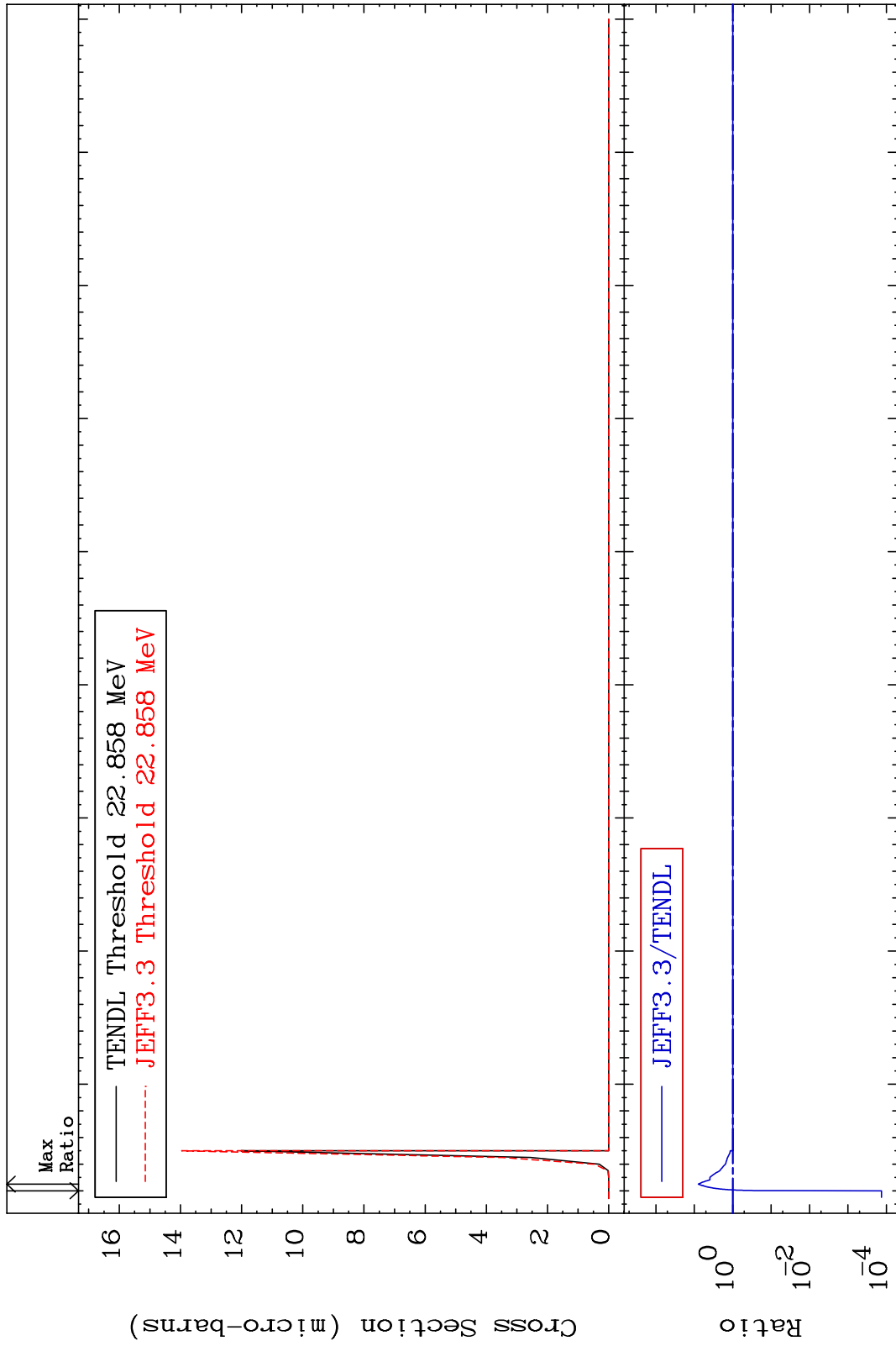
MAT 2025

(n,2n) α

20-Ca-40

Cross Section

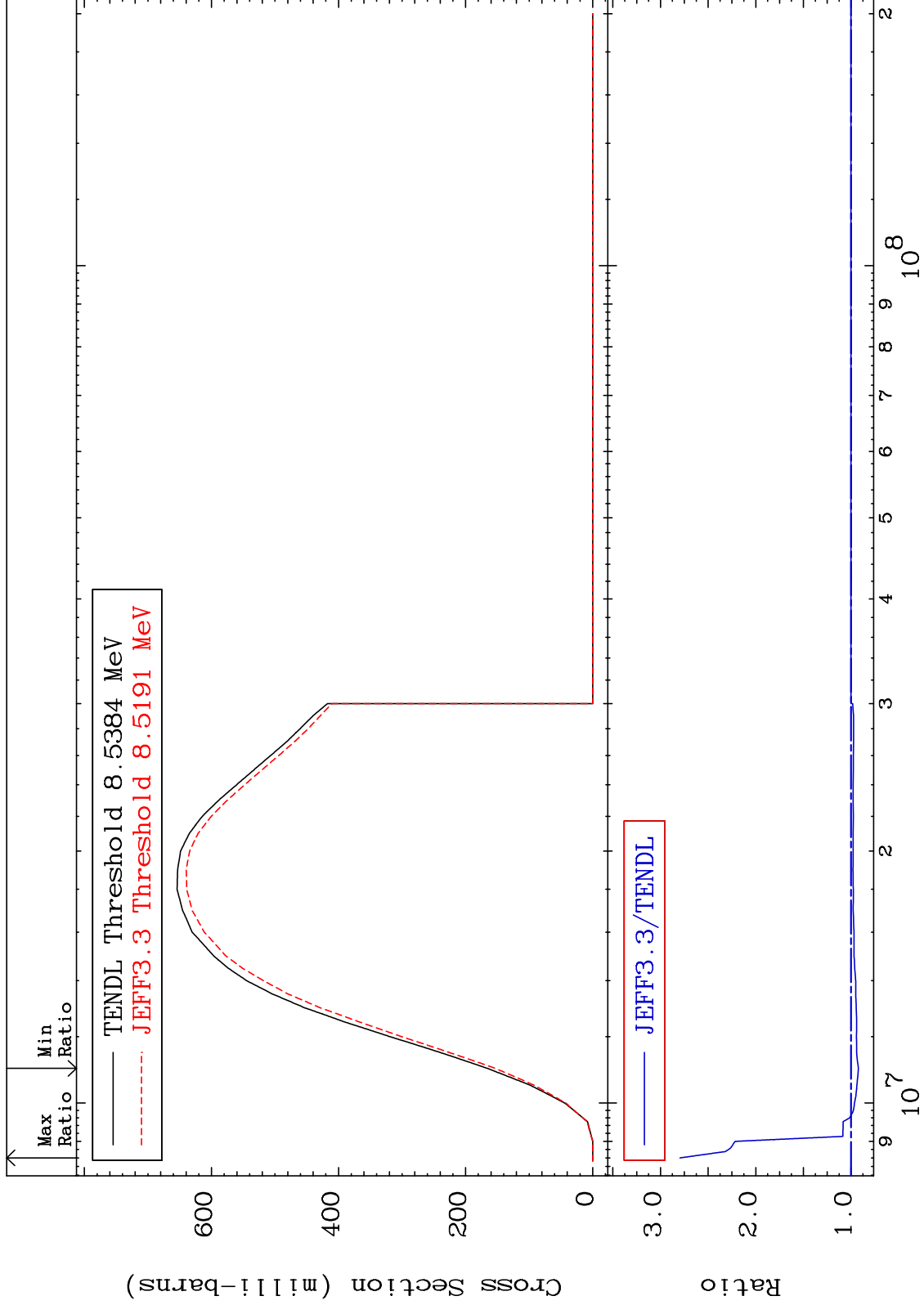
-99.99 To 684.9 %



MAT 2025

(n,n') p
Cross Section

20-Ca-40
-7.743 To 179.5 %



7

Incident Energy (eV)

20-Ca-40

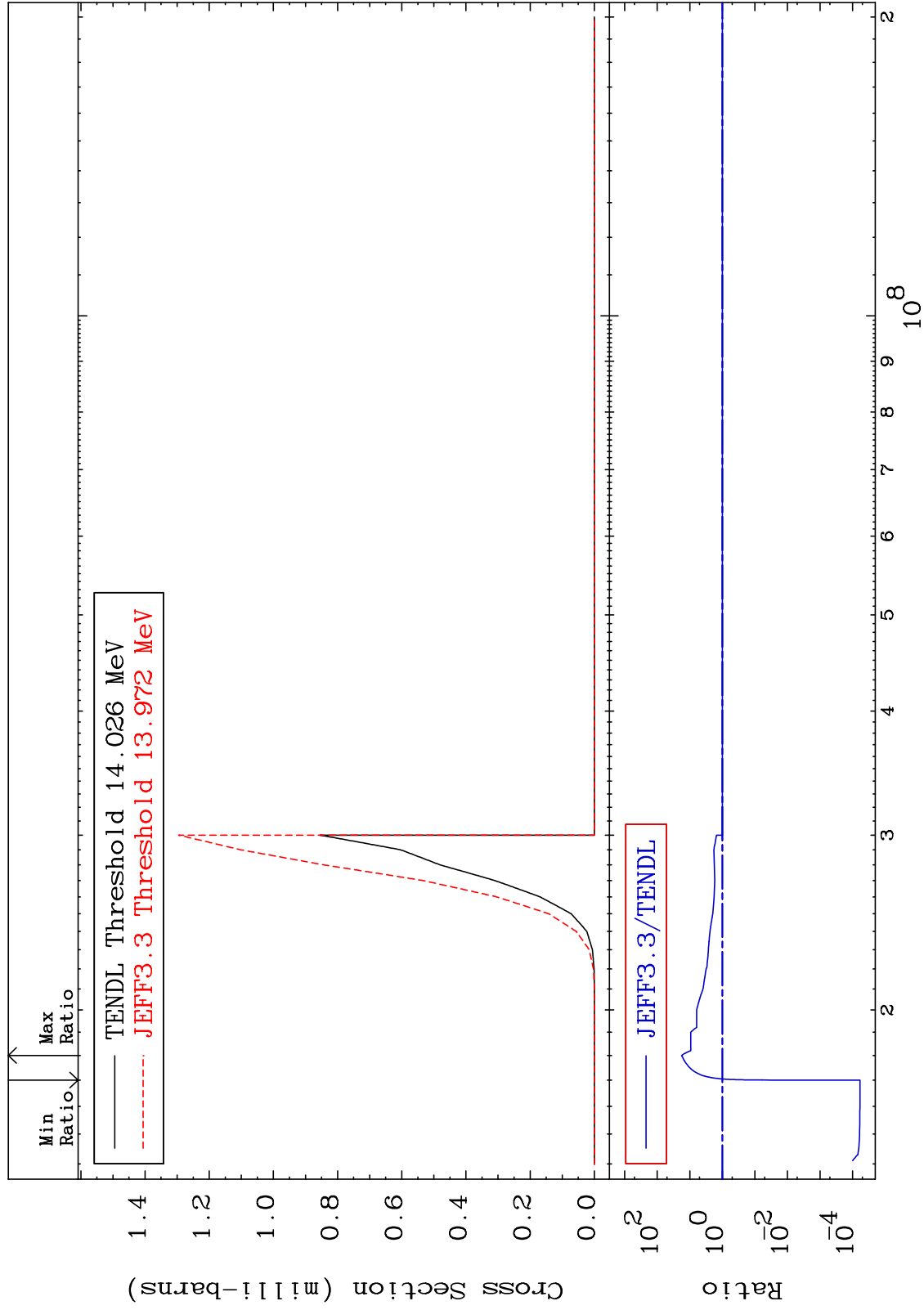
MAT 2025

(n, n') 2α

20-Ca-40

Cross Section

-99.99 To 1676. %



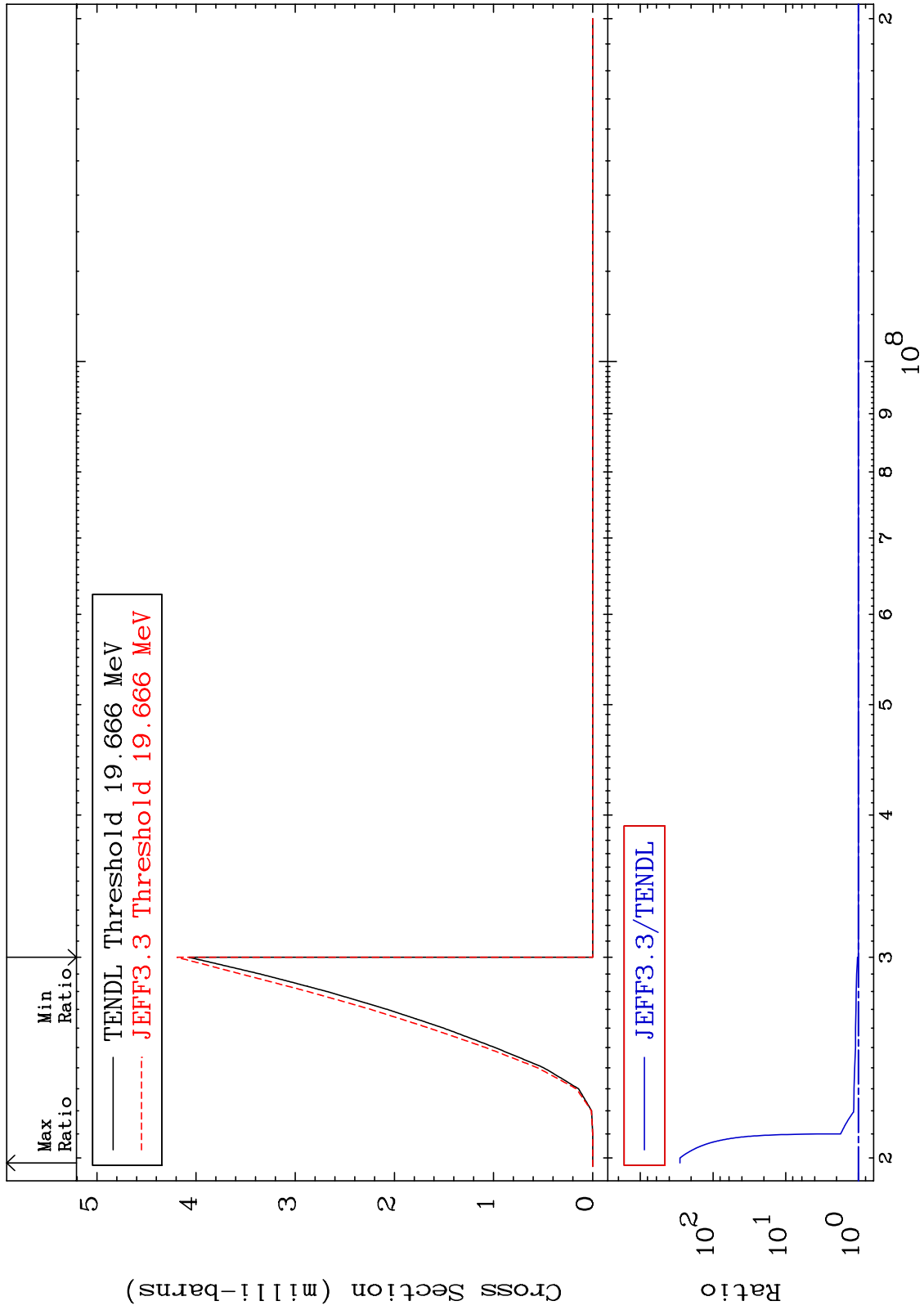
MAT 2025

(n,n') d

20-Ca-40

Cross Section

0.000 To 9999. %



9

Incident Energy (eV)

20-Ca-40

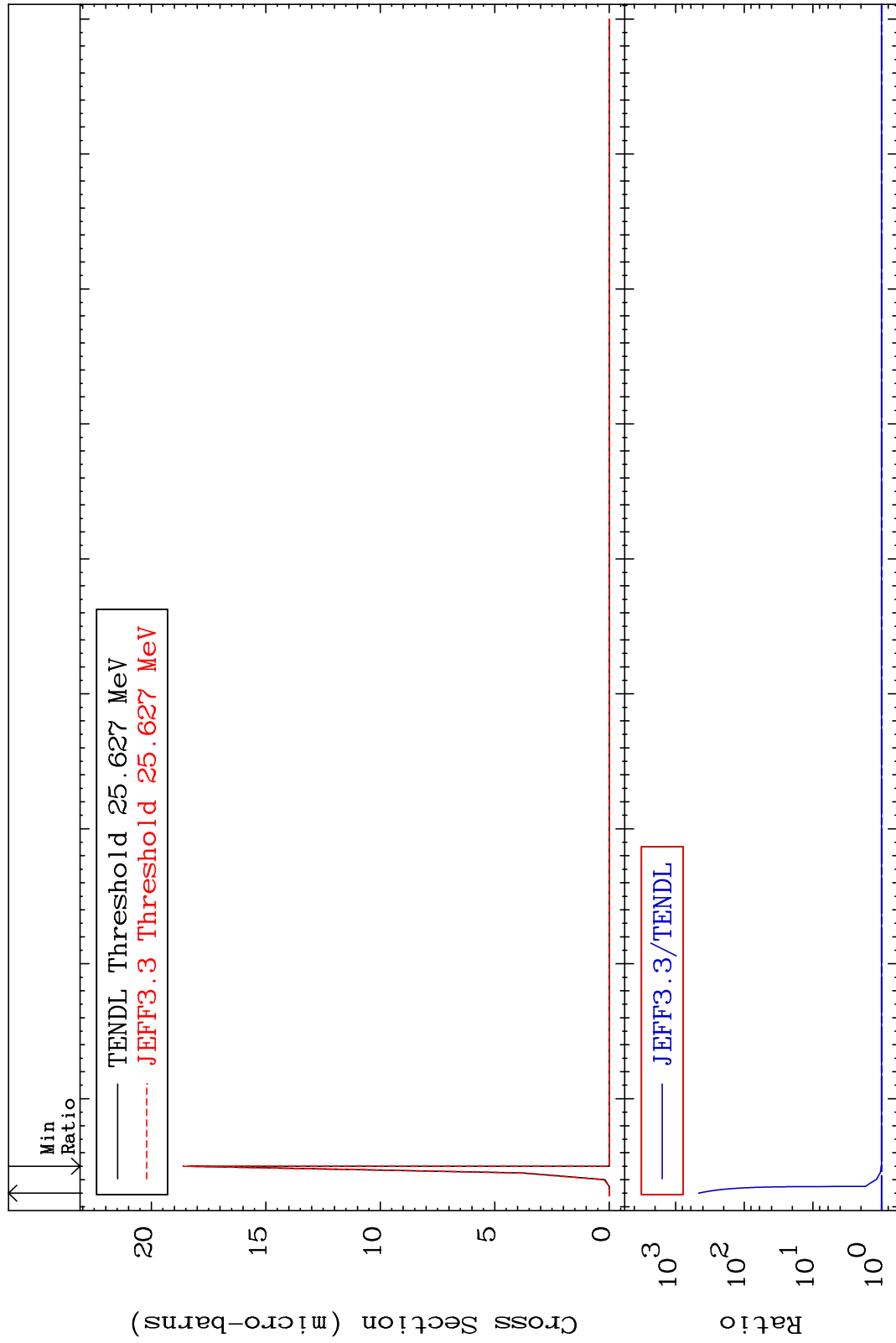
MAT 2025

(n,n') t

20-Ca-40

Cross Section

0.000 To 9999. %



10

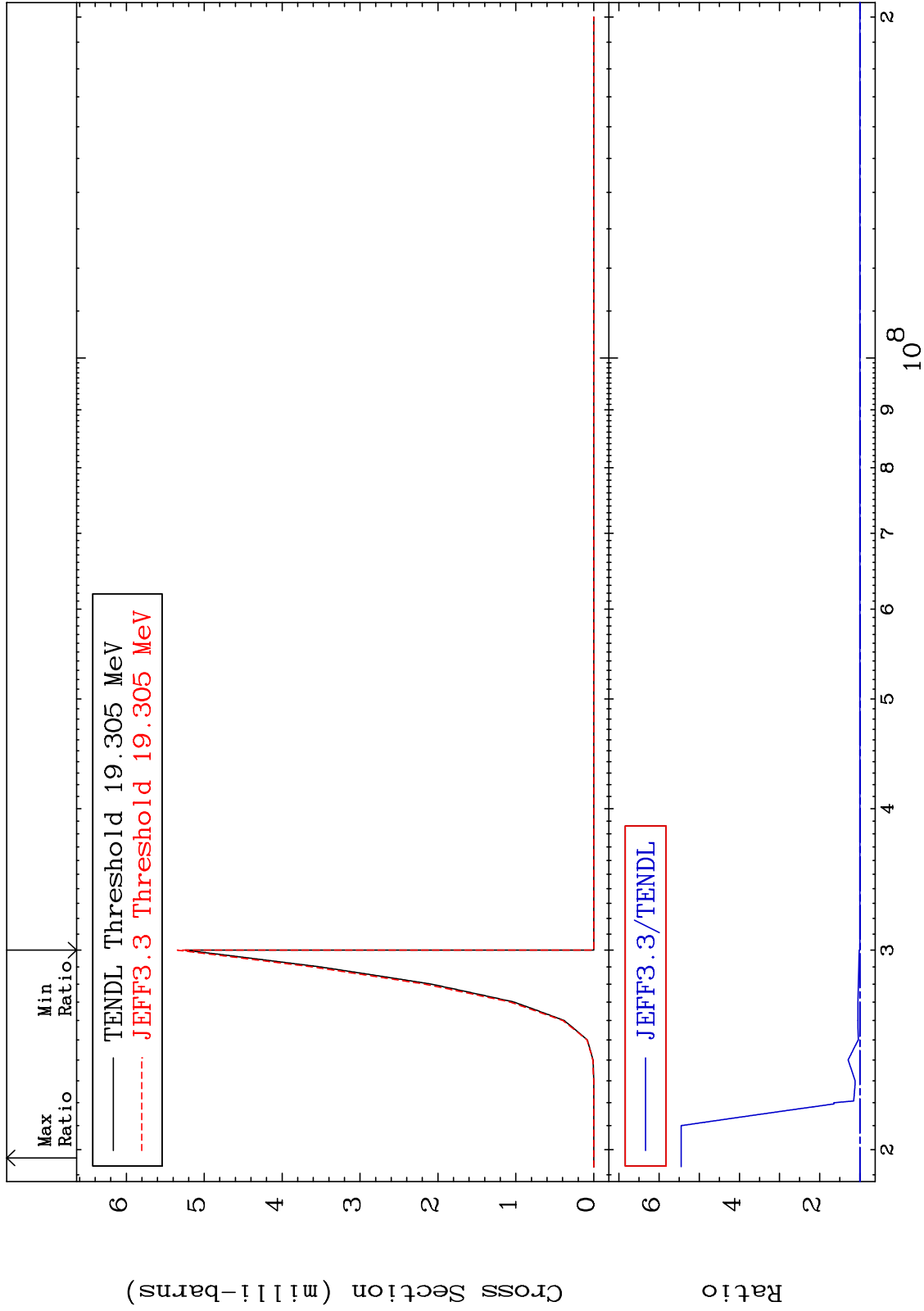
Incident Energy (MeV)

20-Ca-40

MAT 2025

(n, n') He-3
Cross Section

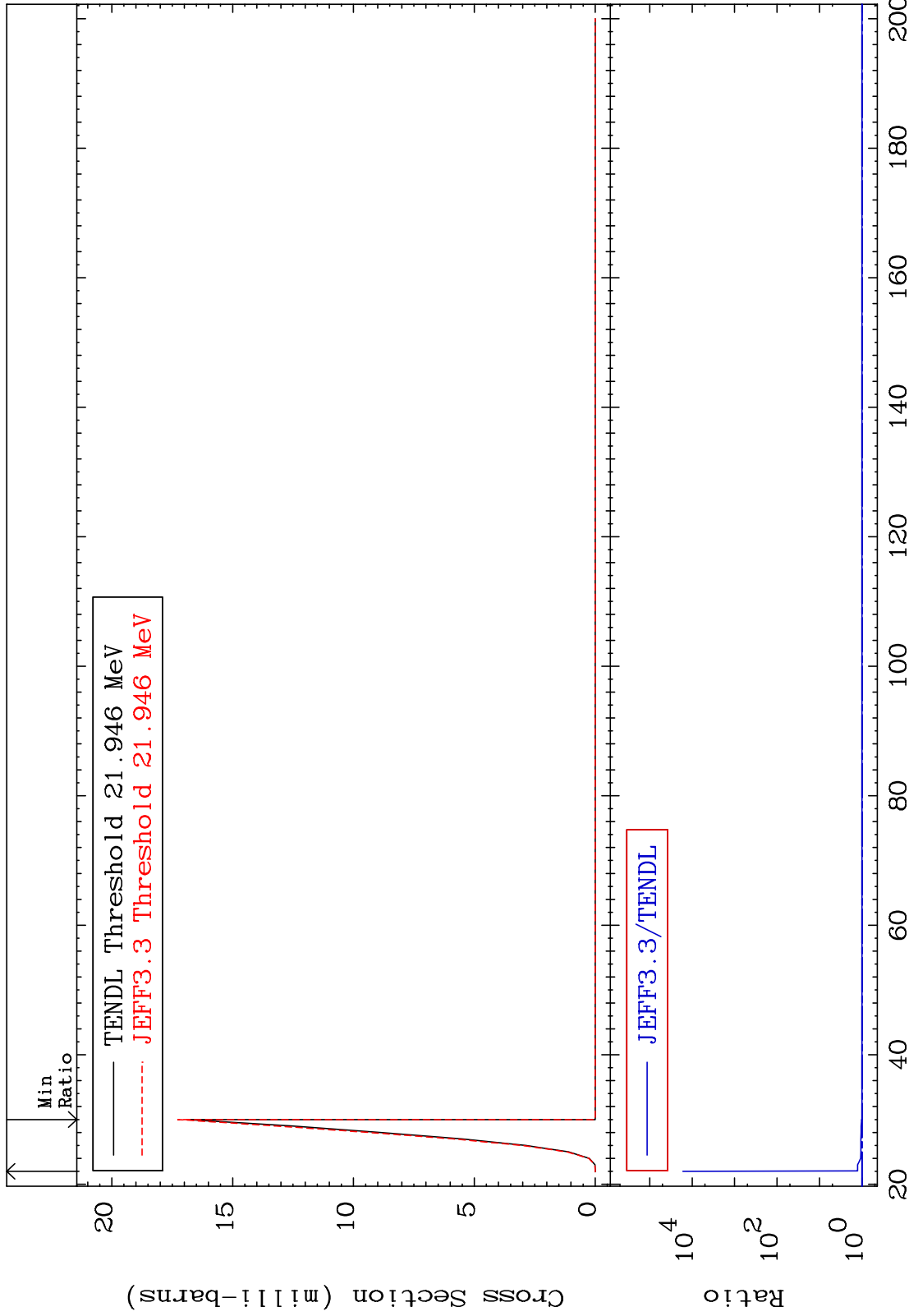
20-Ca-40
0.000 To 444.8 %



MAT 2025

(n,2n) p
Cross Section

20-Ca-40
0.000 To 9999. %



Incident Energy (MeV)

12

20-Ca-40

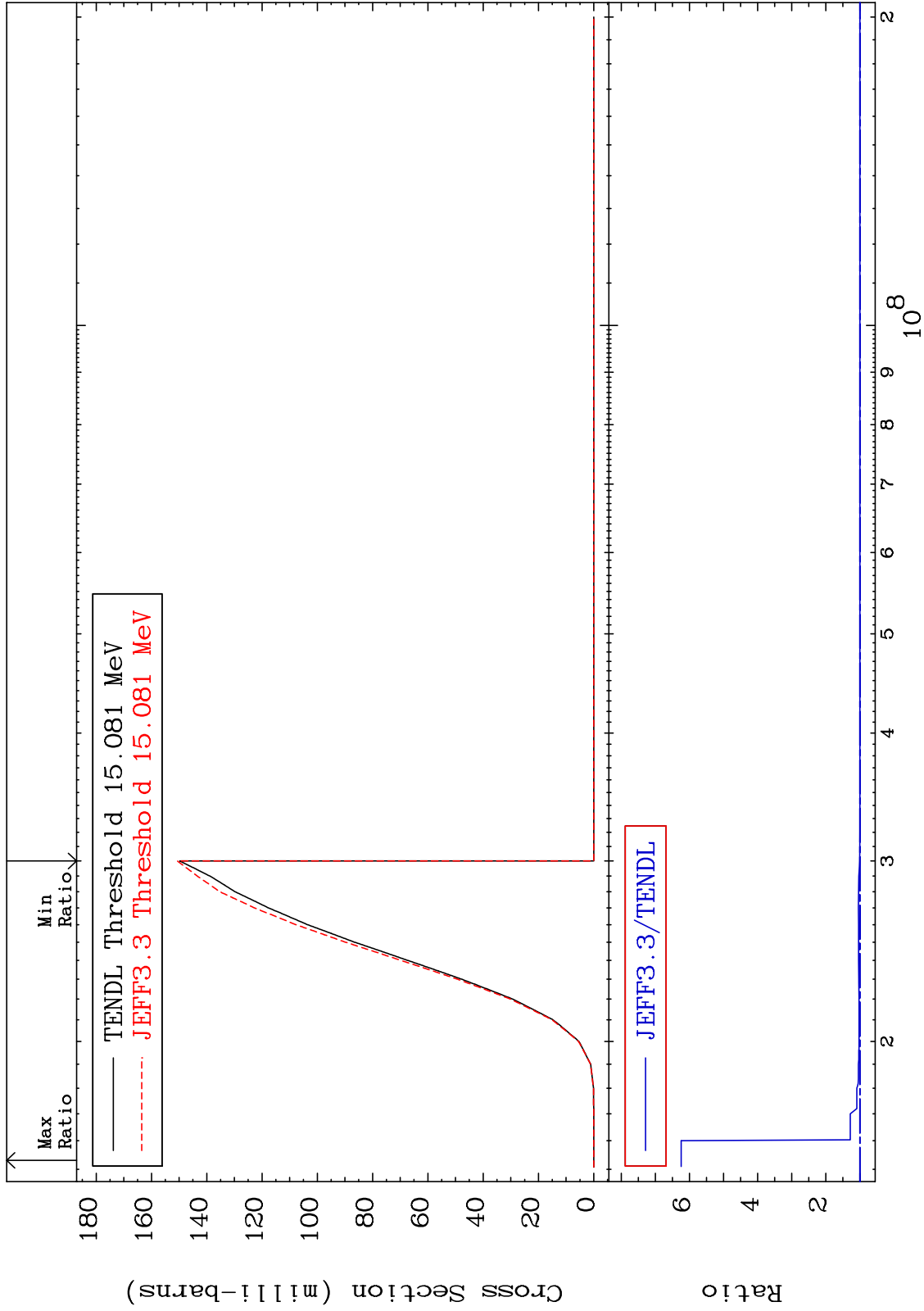
MAT 2025

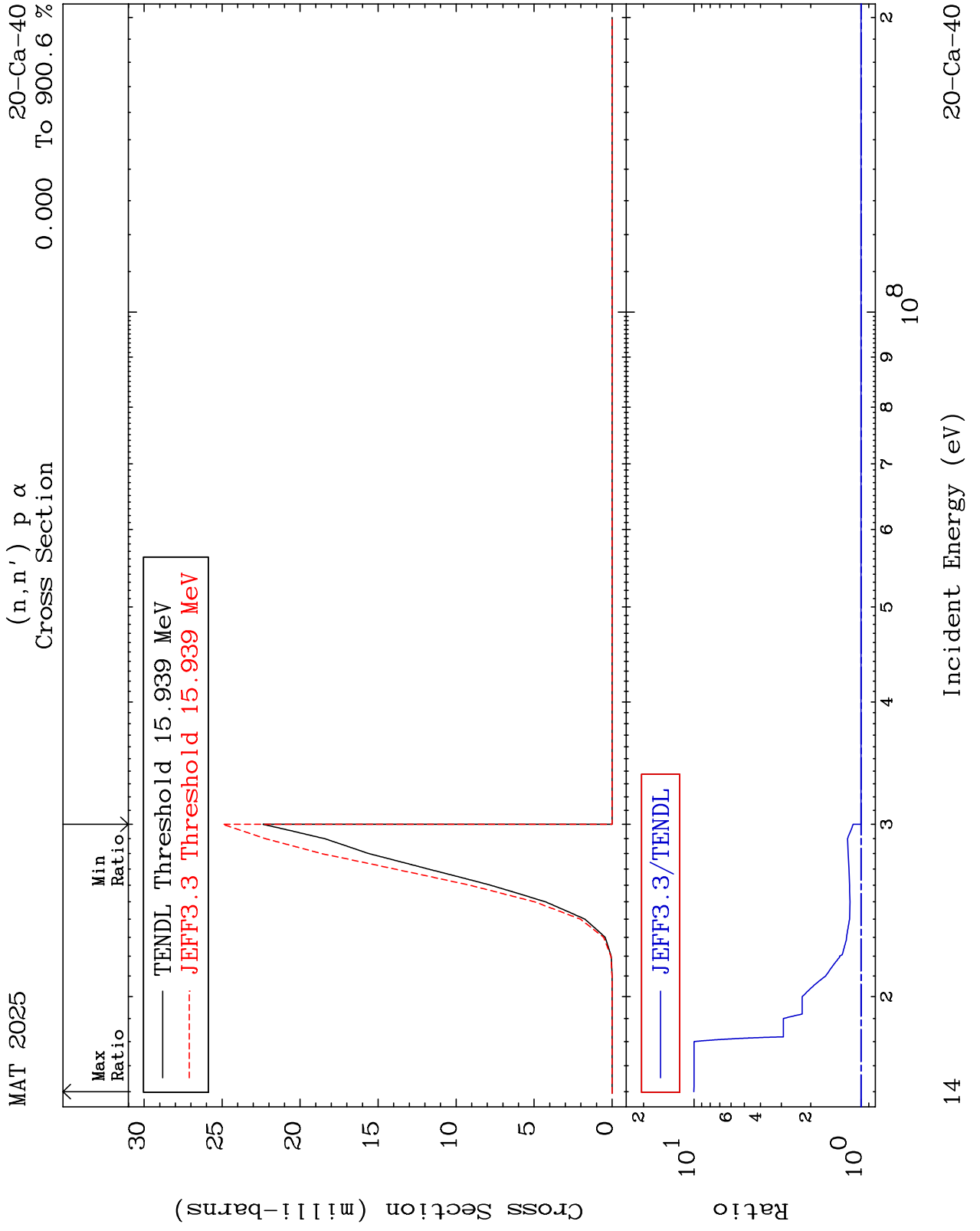
(n,2n) p

20-Ca-40

Cross Section

0.000 To 524.3 %

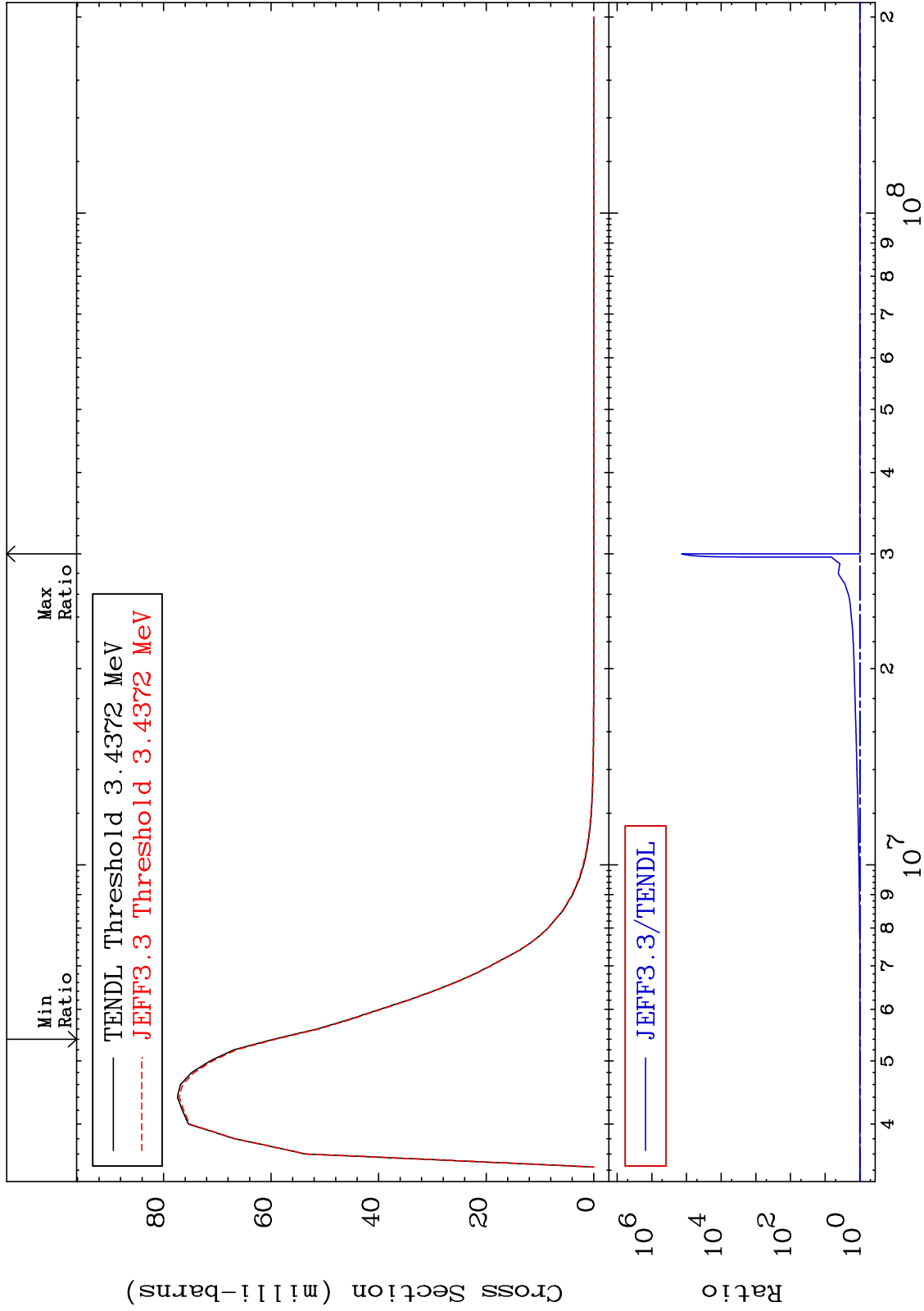




MAT 2025

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

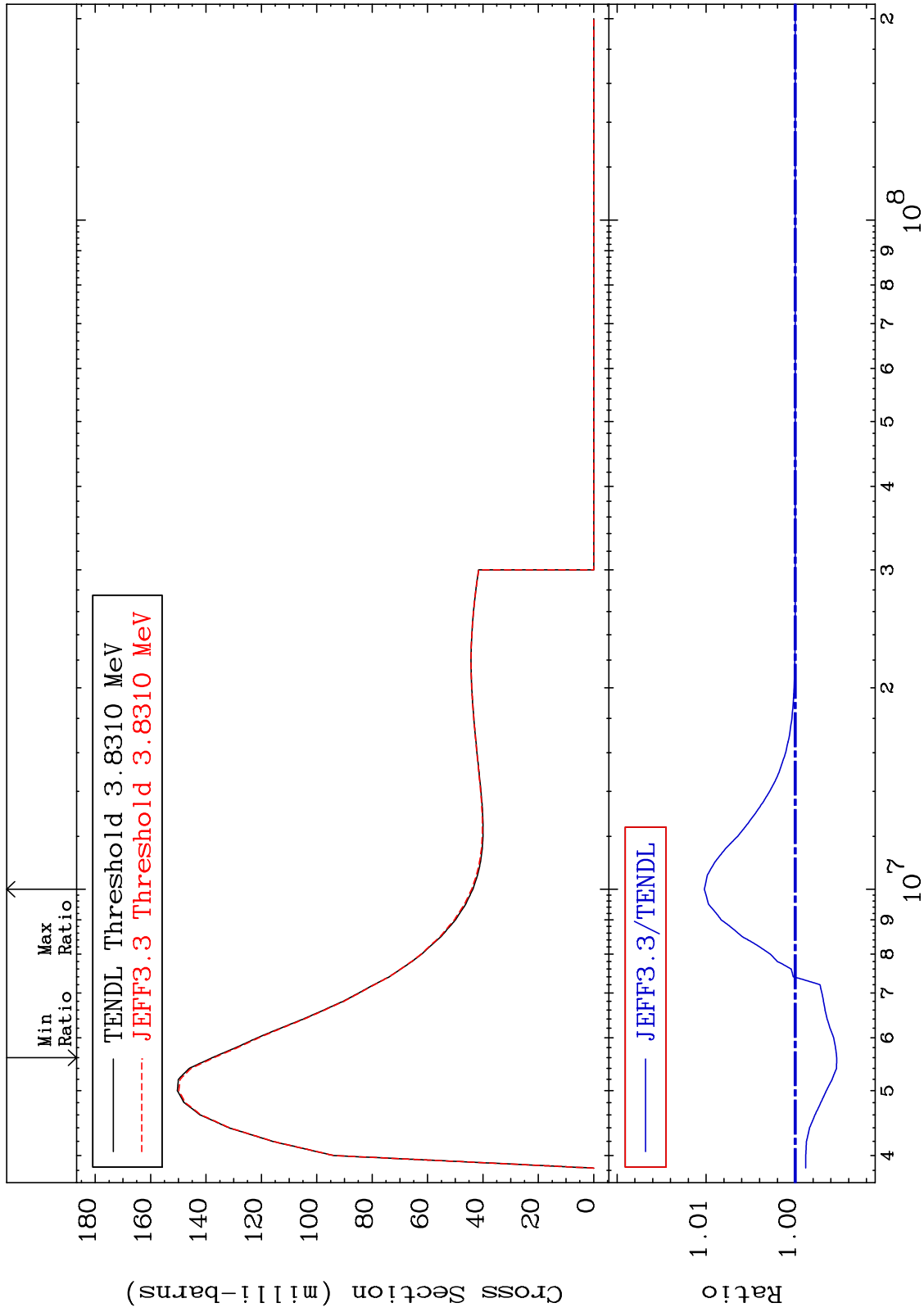
20-Ca-40
-0.652 To 9999. %



MAT 2025

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

20-Ca-40
-0.466 To 1.020 %



16

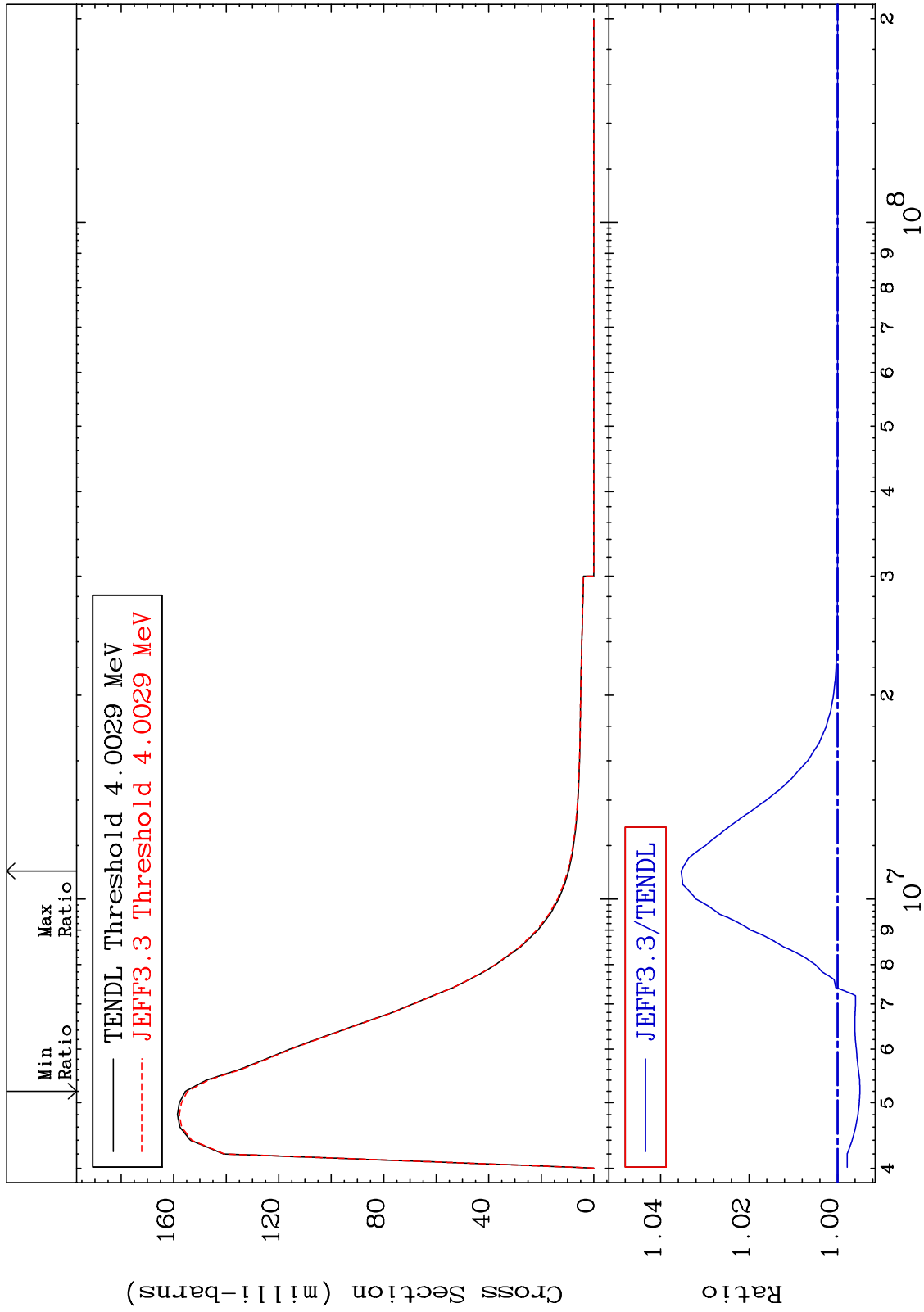
Incident Energy (eV)

20-Ca-40

MAT 2025

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

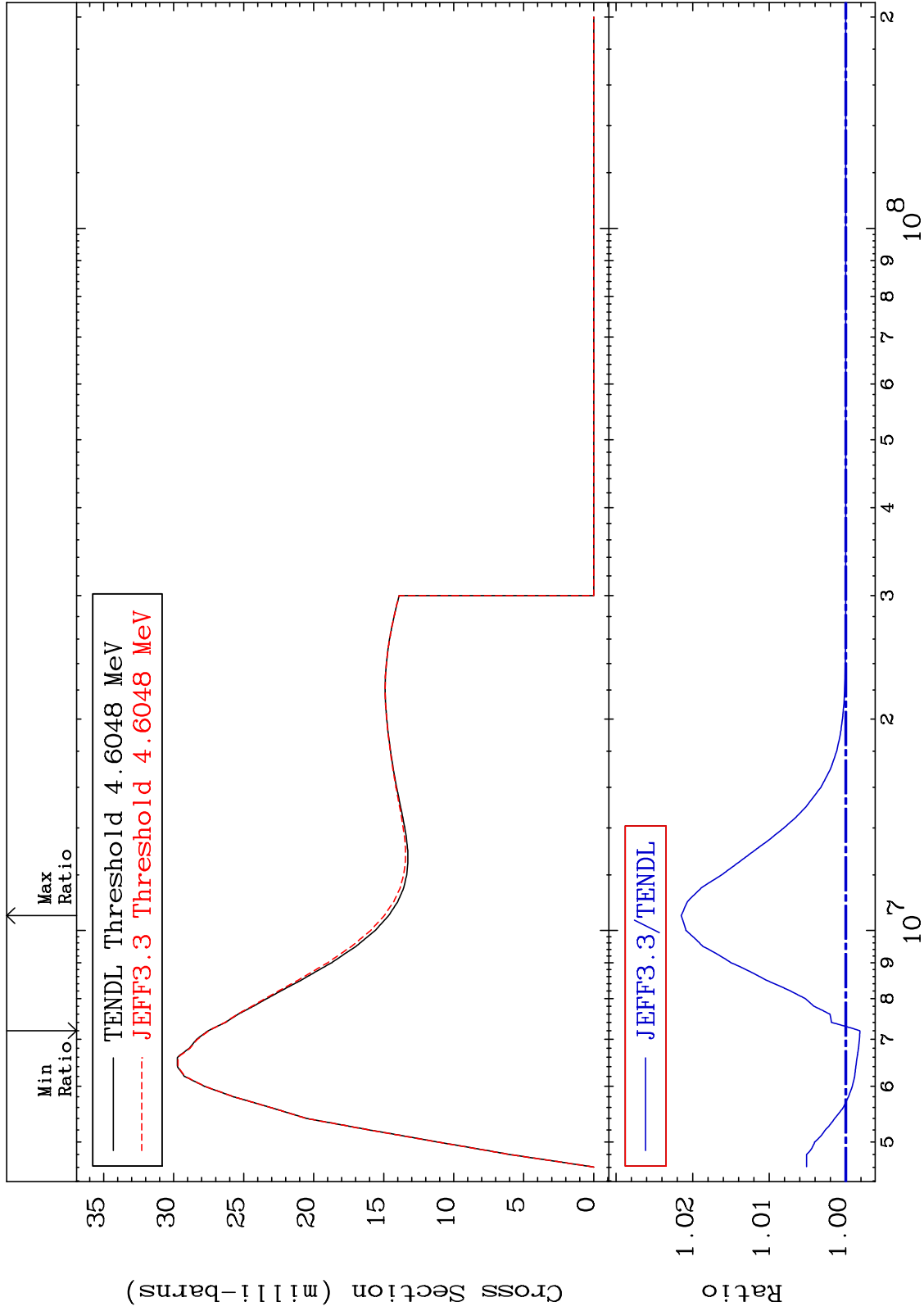
20-Ca-40
-0.507 To 3.535 %



MAT 2025

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

20-Ca-40
-0.186 To 2.149 %



18

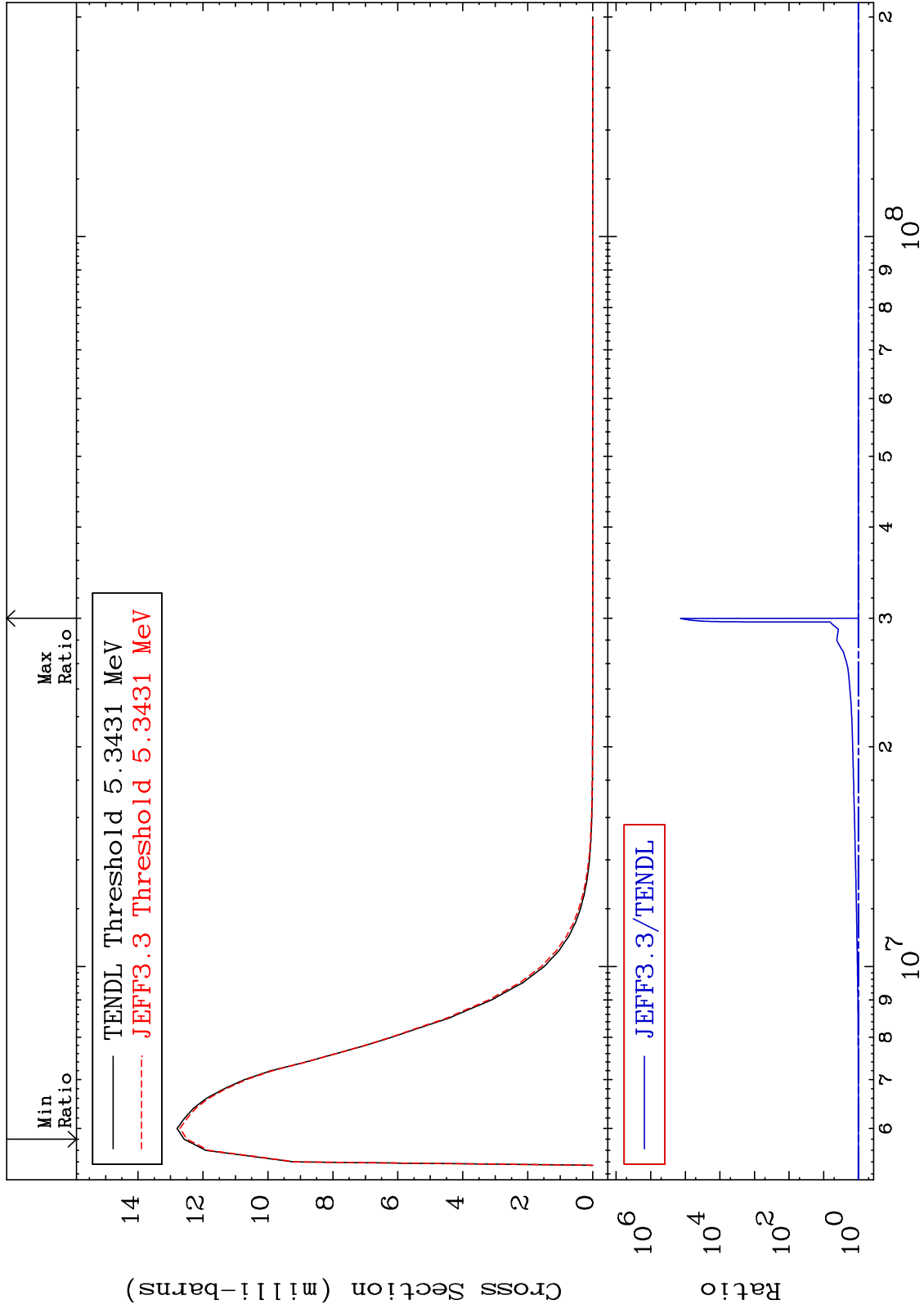
Incident Energy (eV)

20-Ca-40

MAT 2025

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

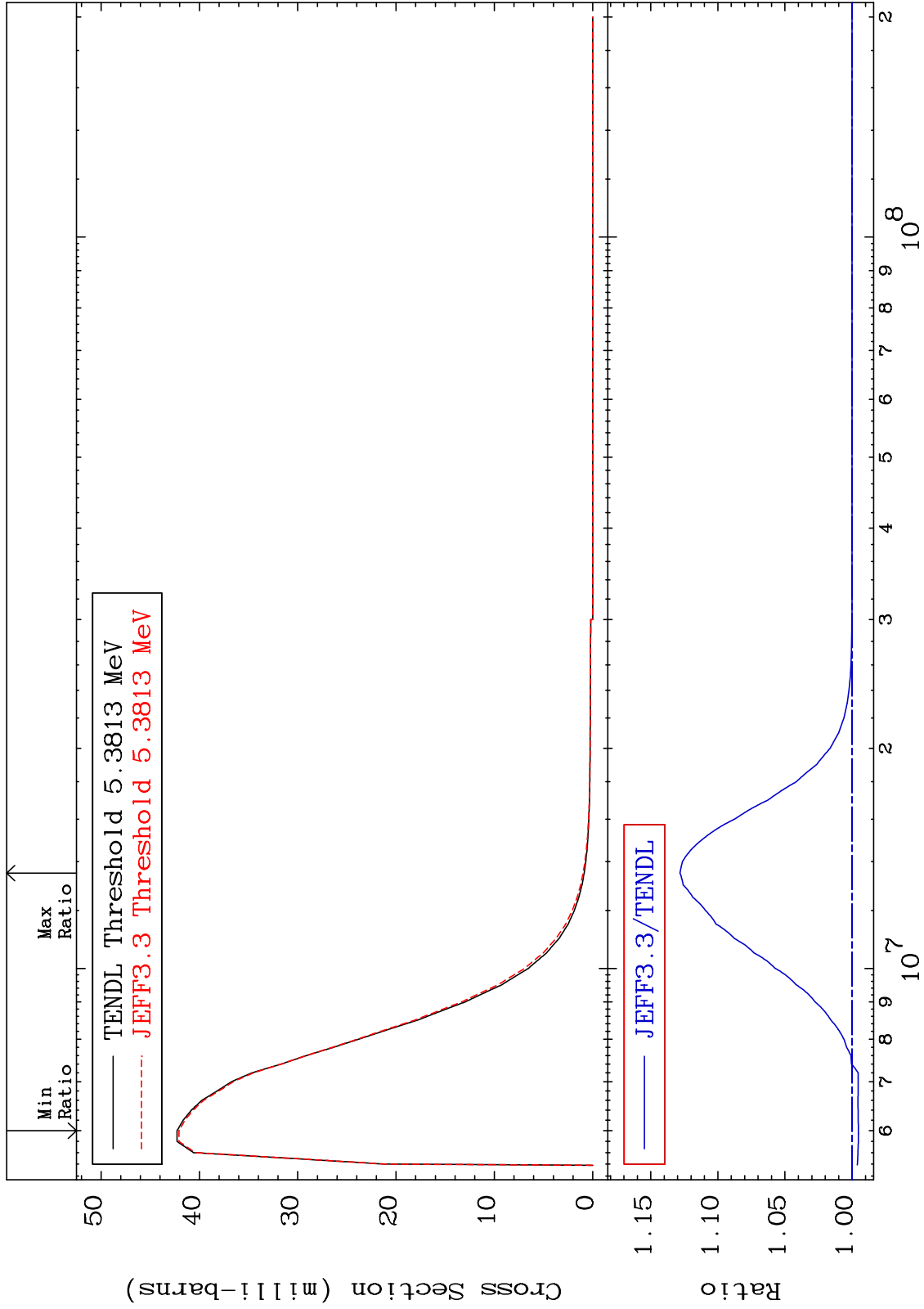
20-Ca-40
-0.727 To 9999. %



MAT 2025

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

20-Ca-40
-0.474 To 12.82 %



20

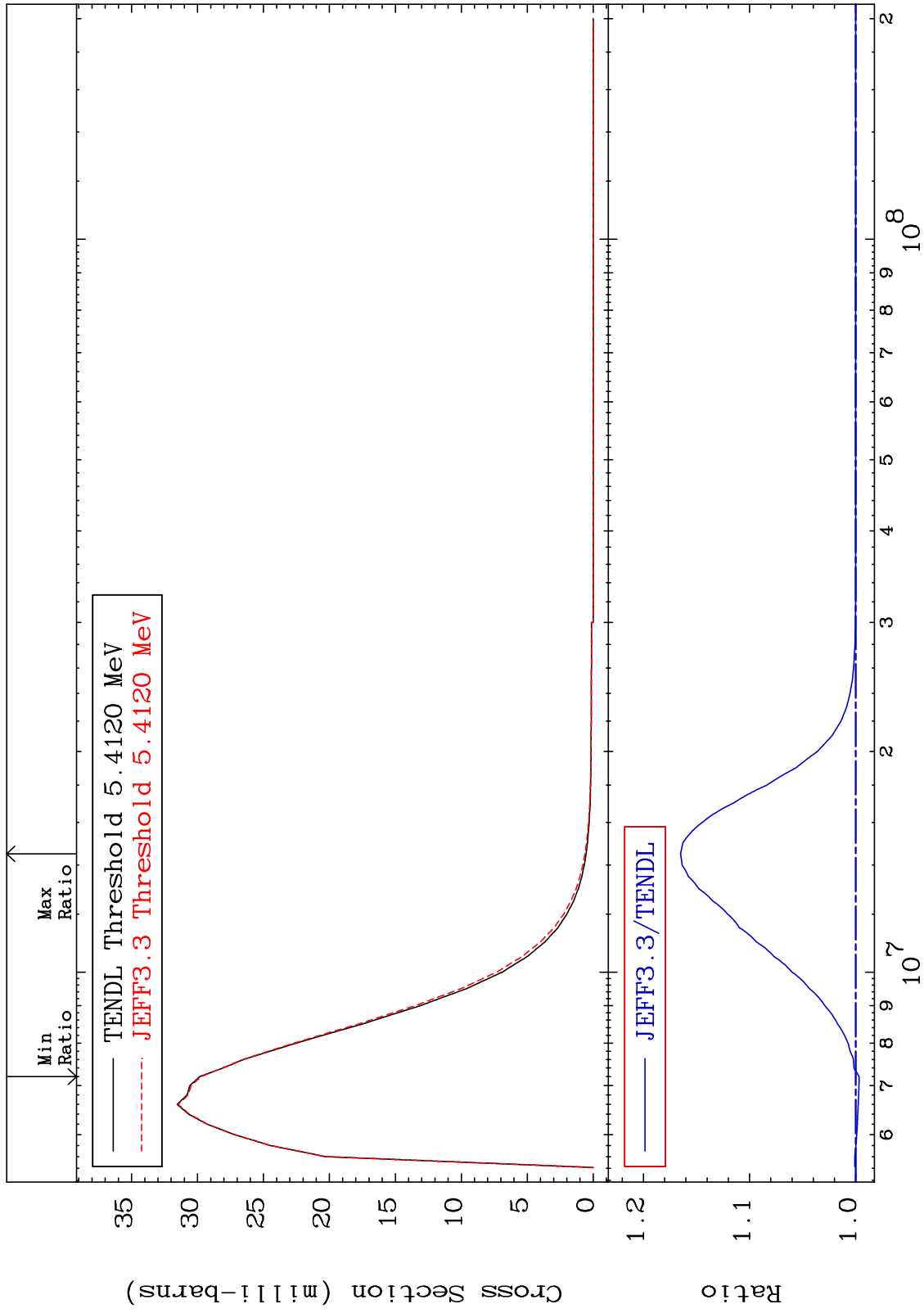
Incident Energy (eV)

20-Ca-40

MAT 2025

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

20-Ca-40
-0.328 To 16.50 %



21

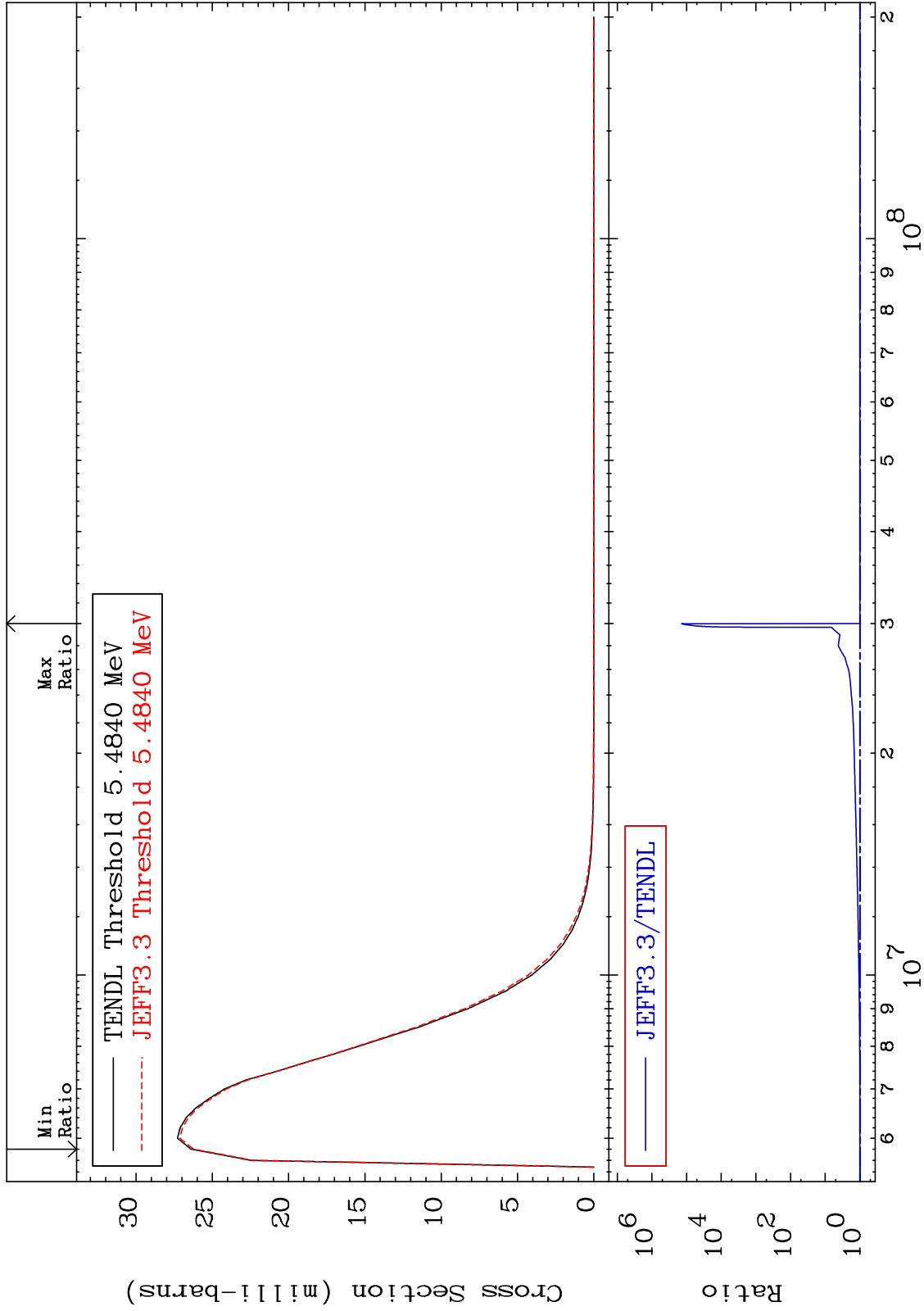
Incident Energy (eV)

20-Ca-40

MAT 2025

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

20-Ca-40
-0.628 To 9999. %



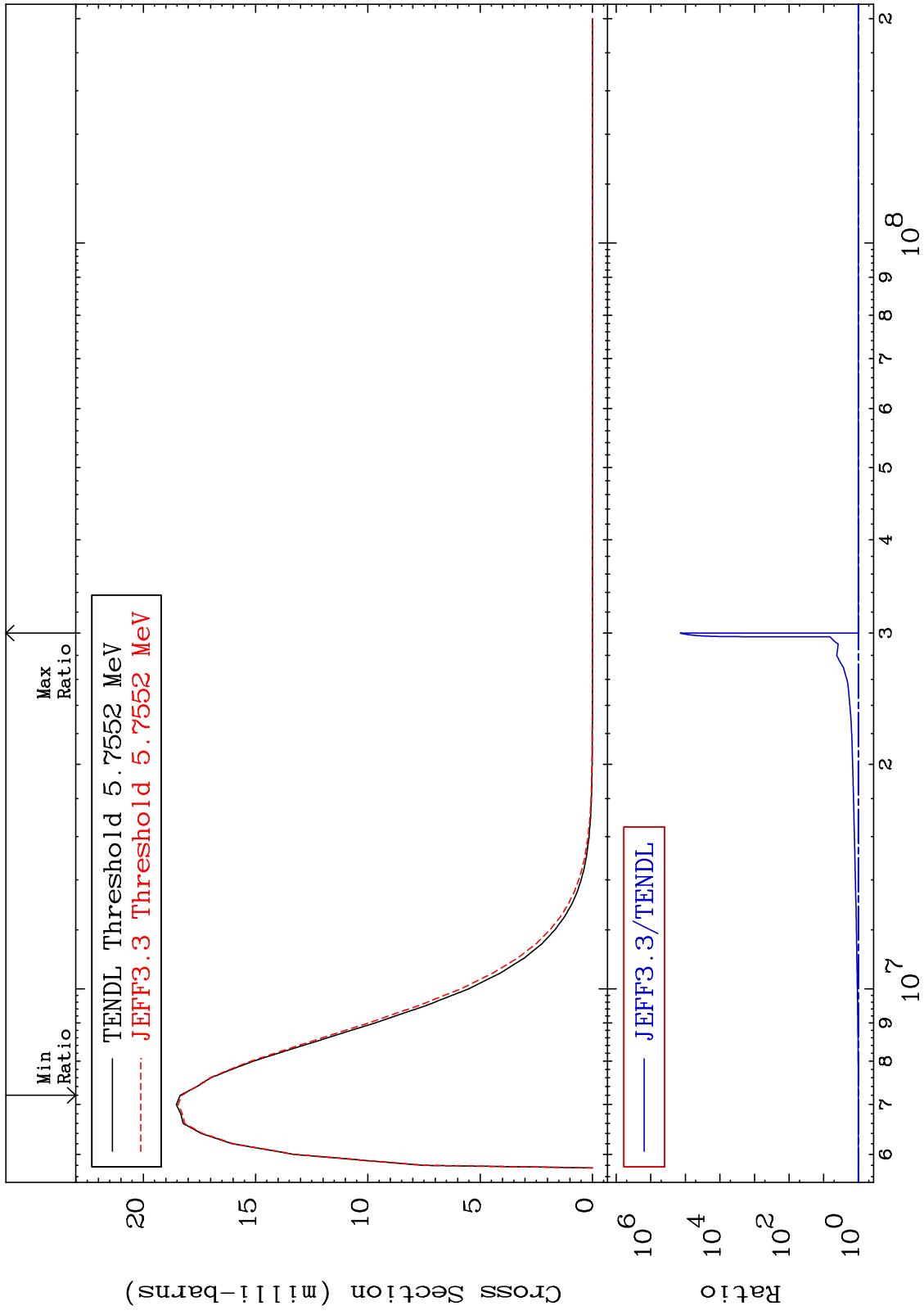
MAT 2025

MT= 59 (n,n') Level

20-Ca-40

-0.407 To 9999. %

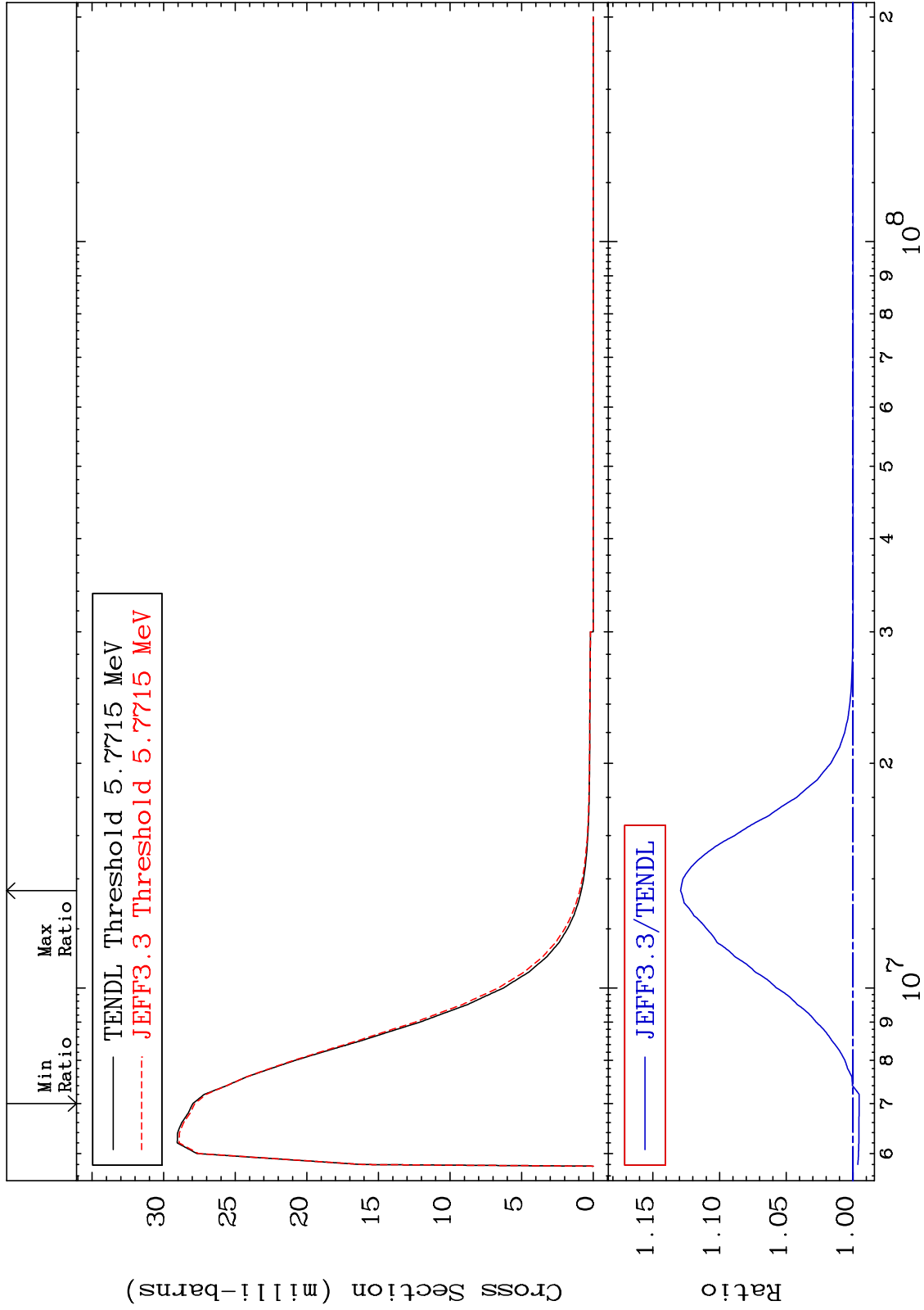
Cross Section



MAT 2025

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

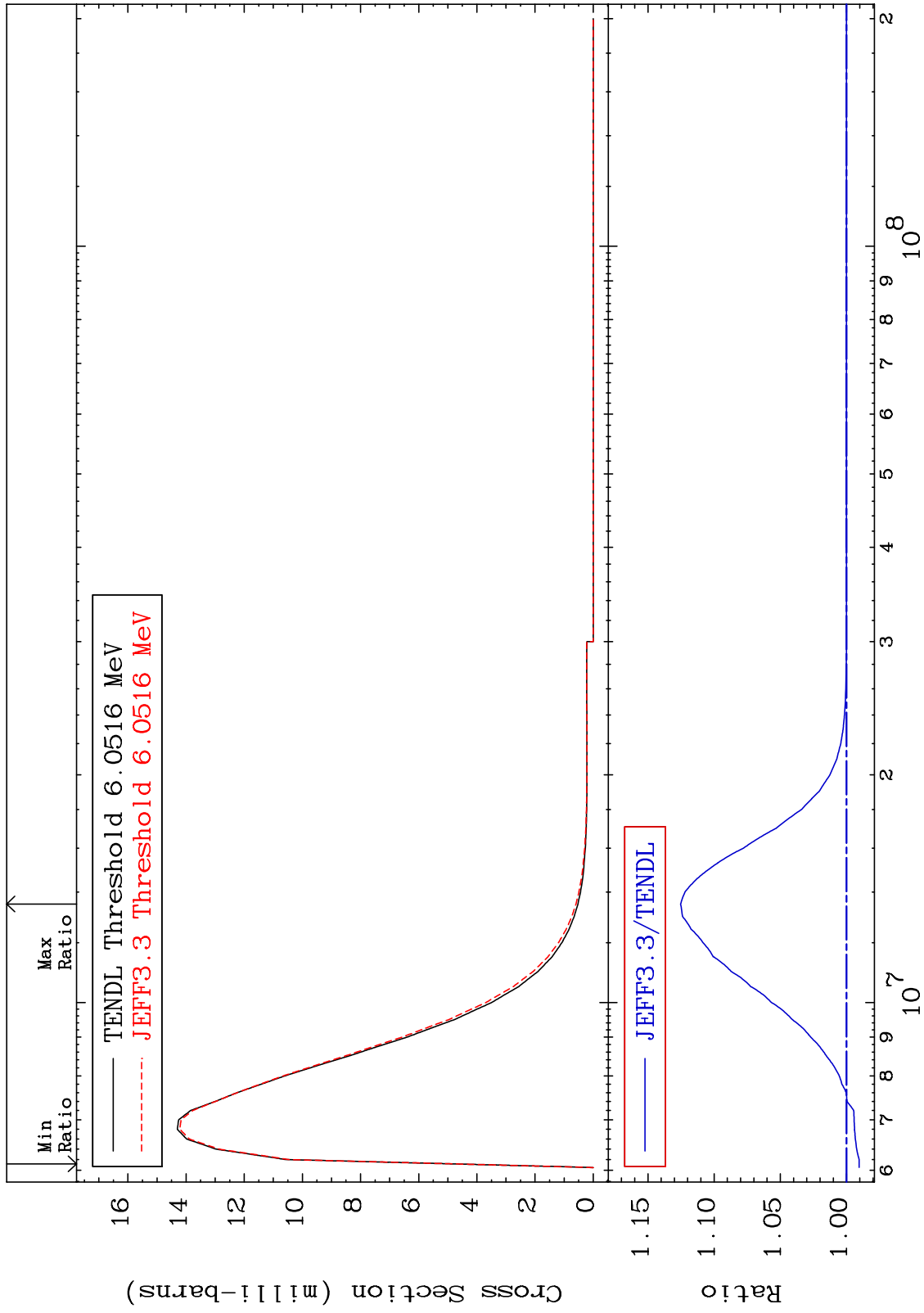
20-Ca-40
-0.469 To 12.92 %



MAT 2025

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

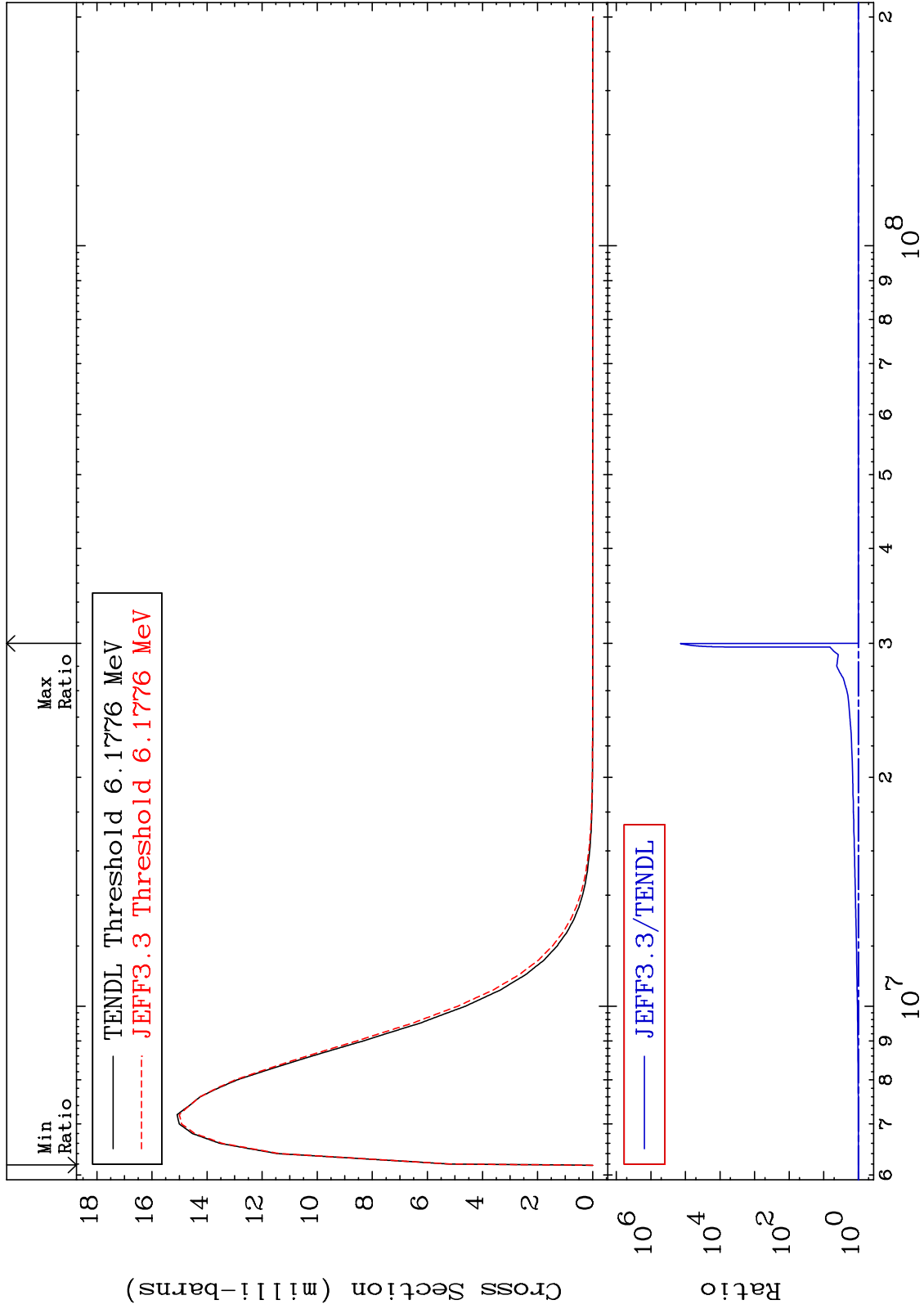
20-Ca-40
-0.954 To 12.53 %



MAT 2025

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

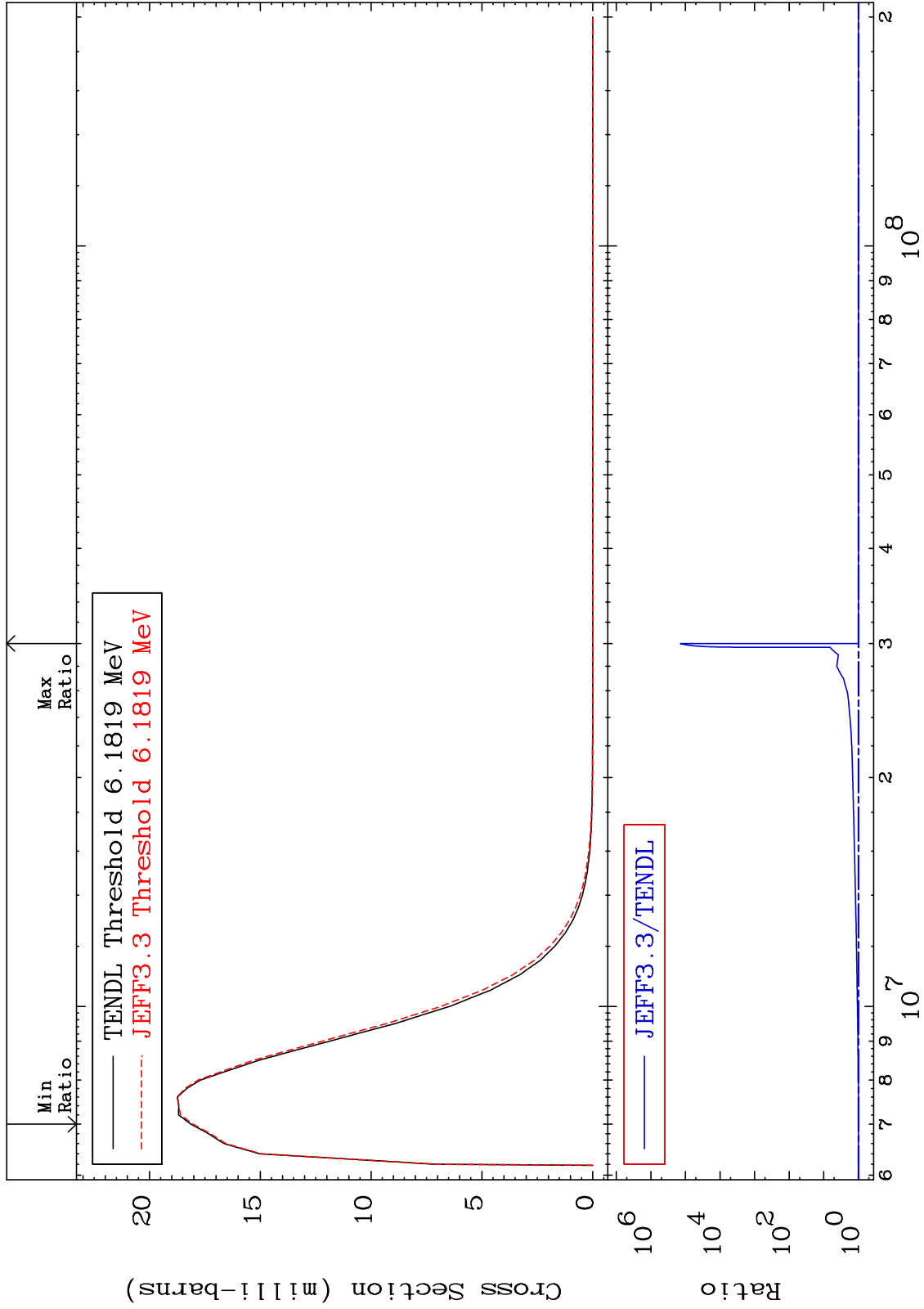
20-Ca-40
-0.953 To 9999. %



MAT 2025

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

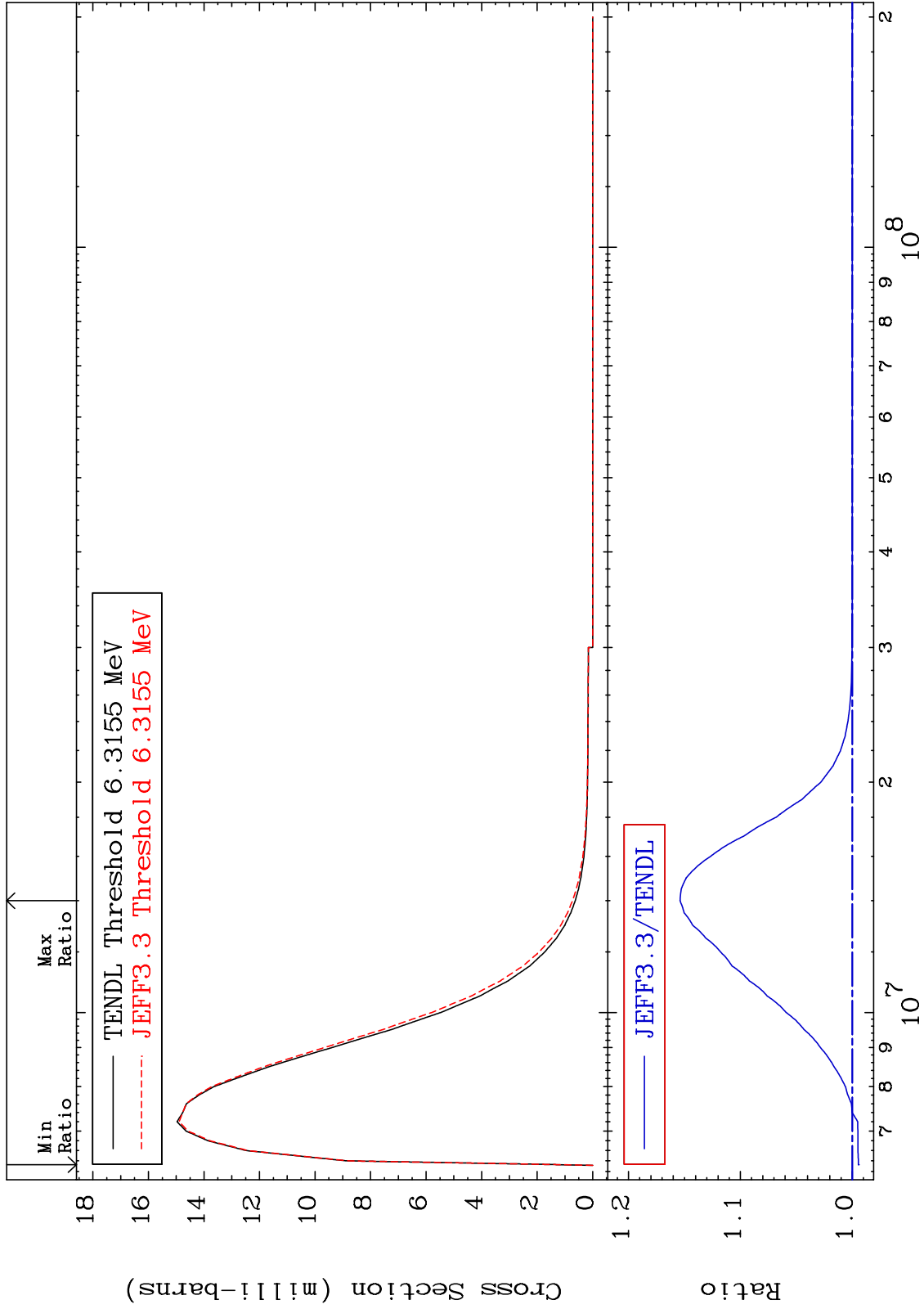
20-Ca-40
-0.489 To 9999. %



MAT 2025

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

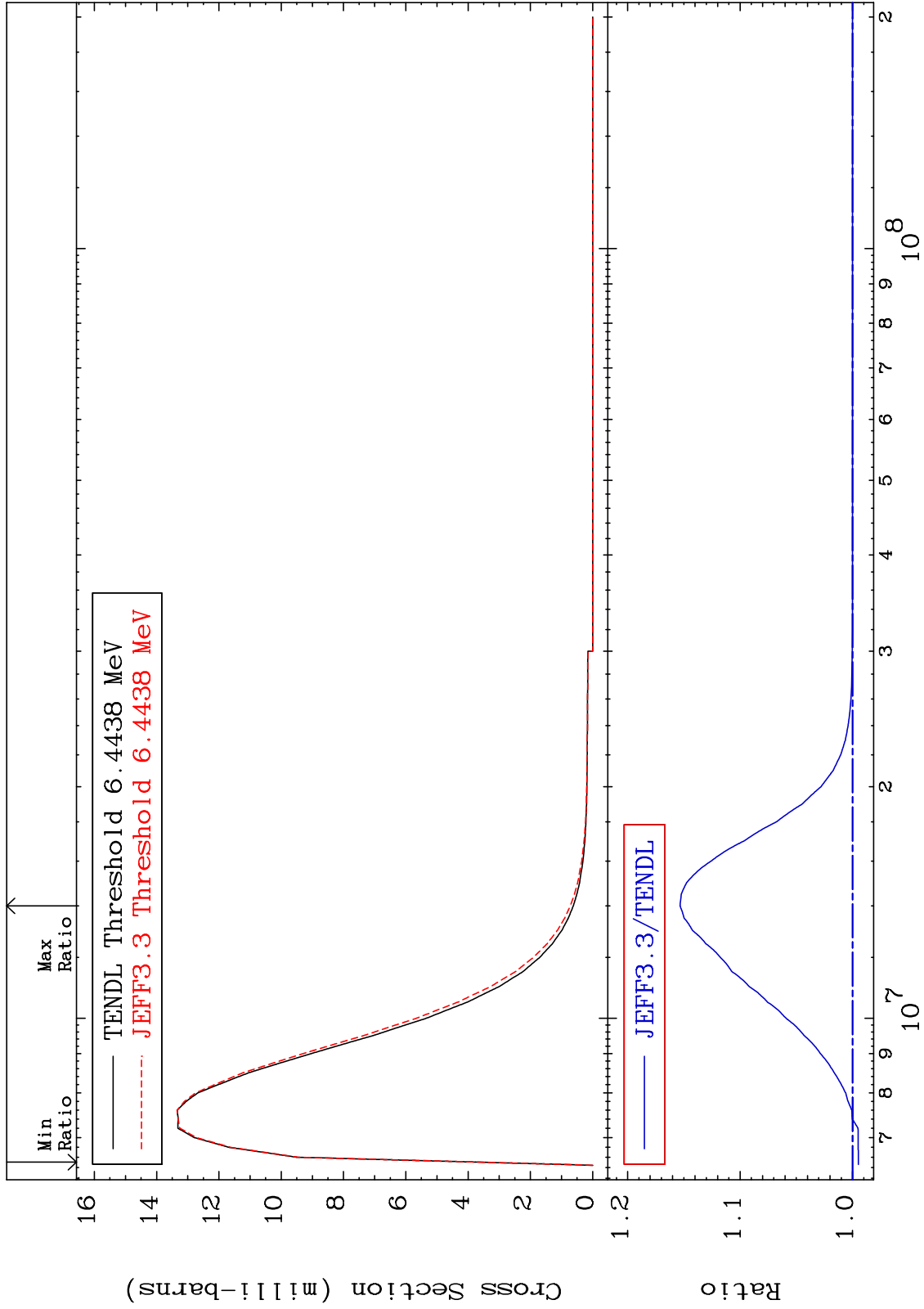
20-Ca-40
-0.549 To 15.40 %



MAT 2025

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

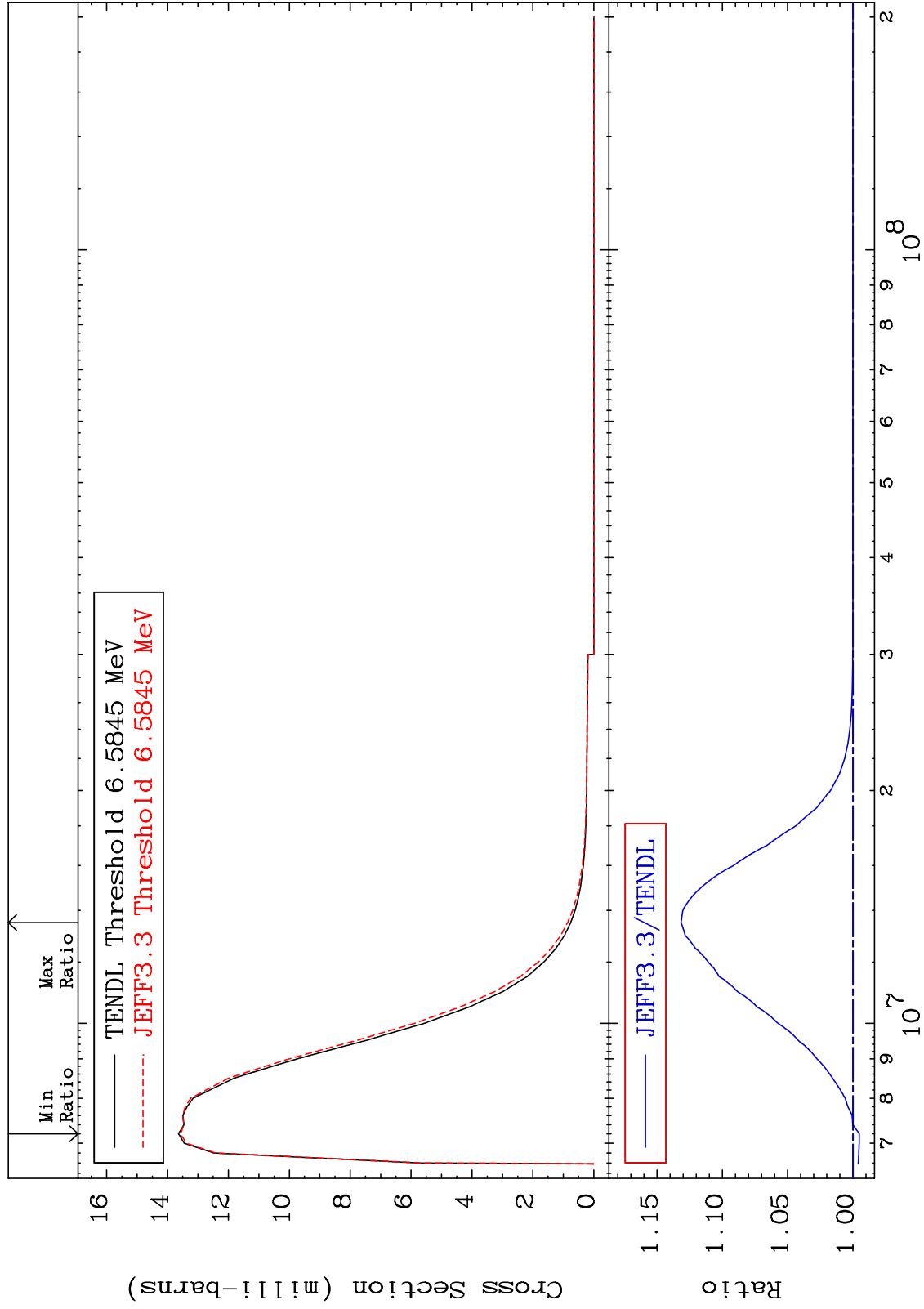
20-Ca-40
-0.527 To 15.34 %



MAT 2025

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

20-Ca-40
-0.485 To 13.16 %



30

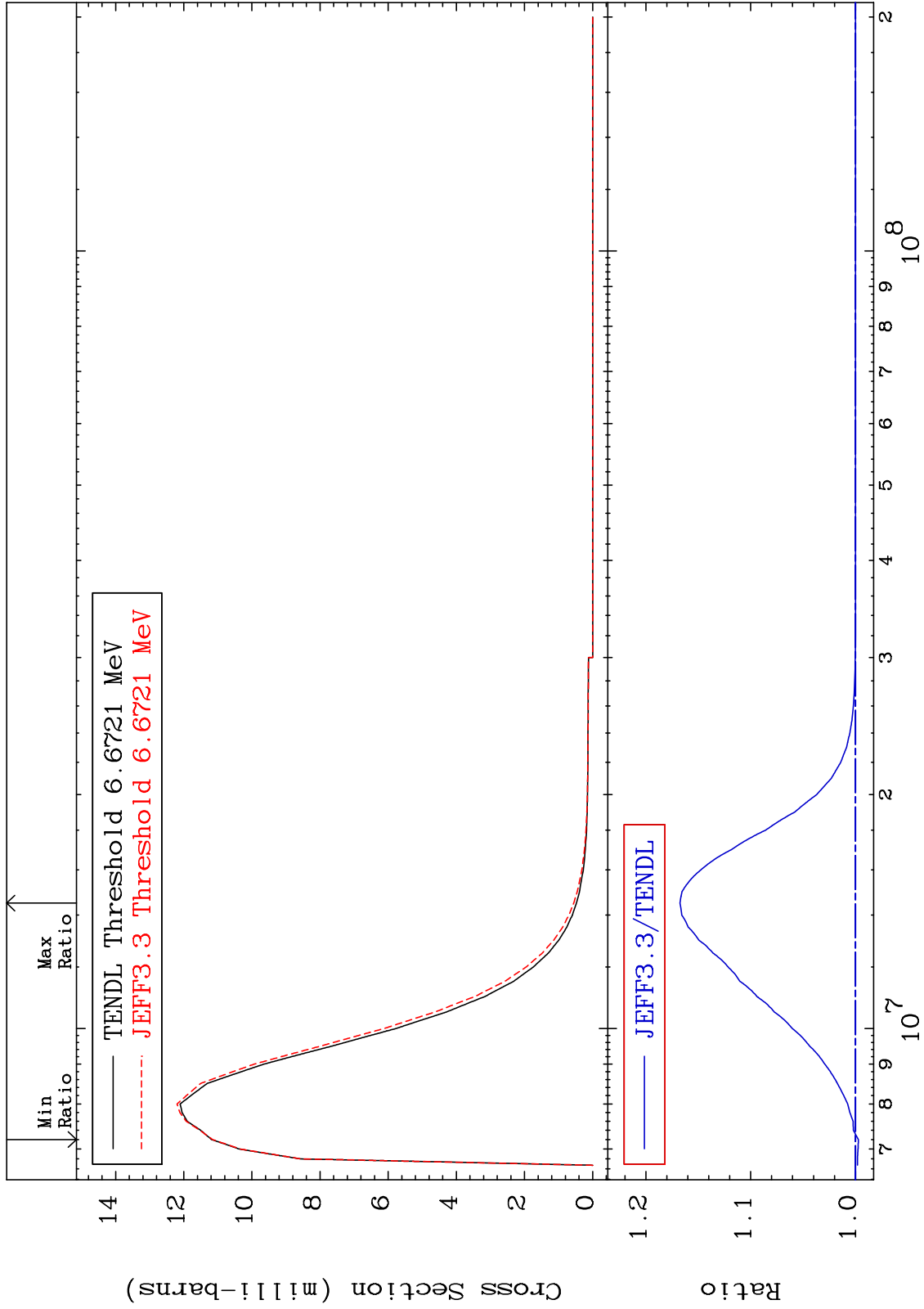
Incident Energy (eV)

20-Ca-40

MAT 2025

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

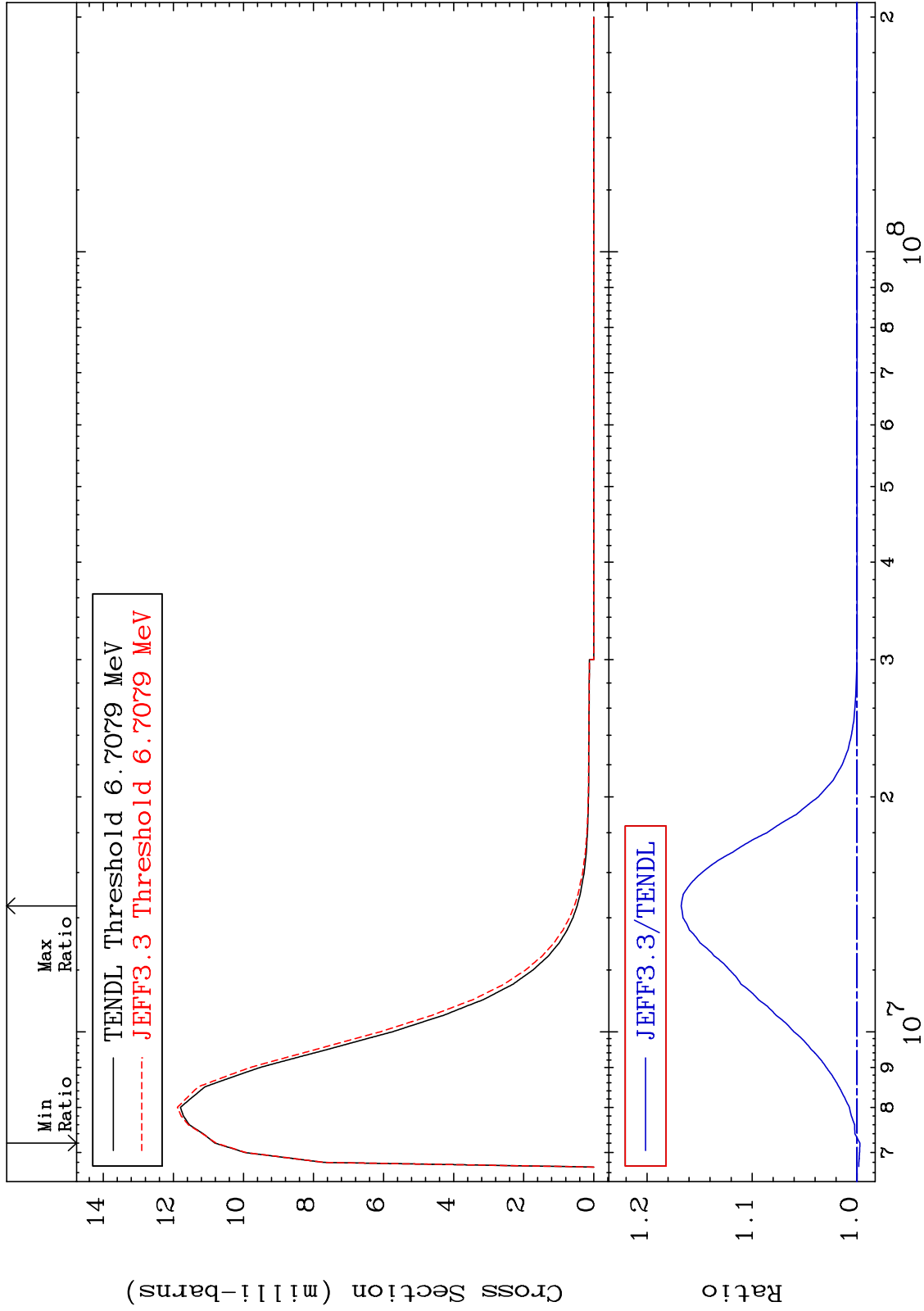
20-Ca-40
-0.280 To 16.74 %



MAT 2025

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

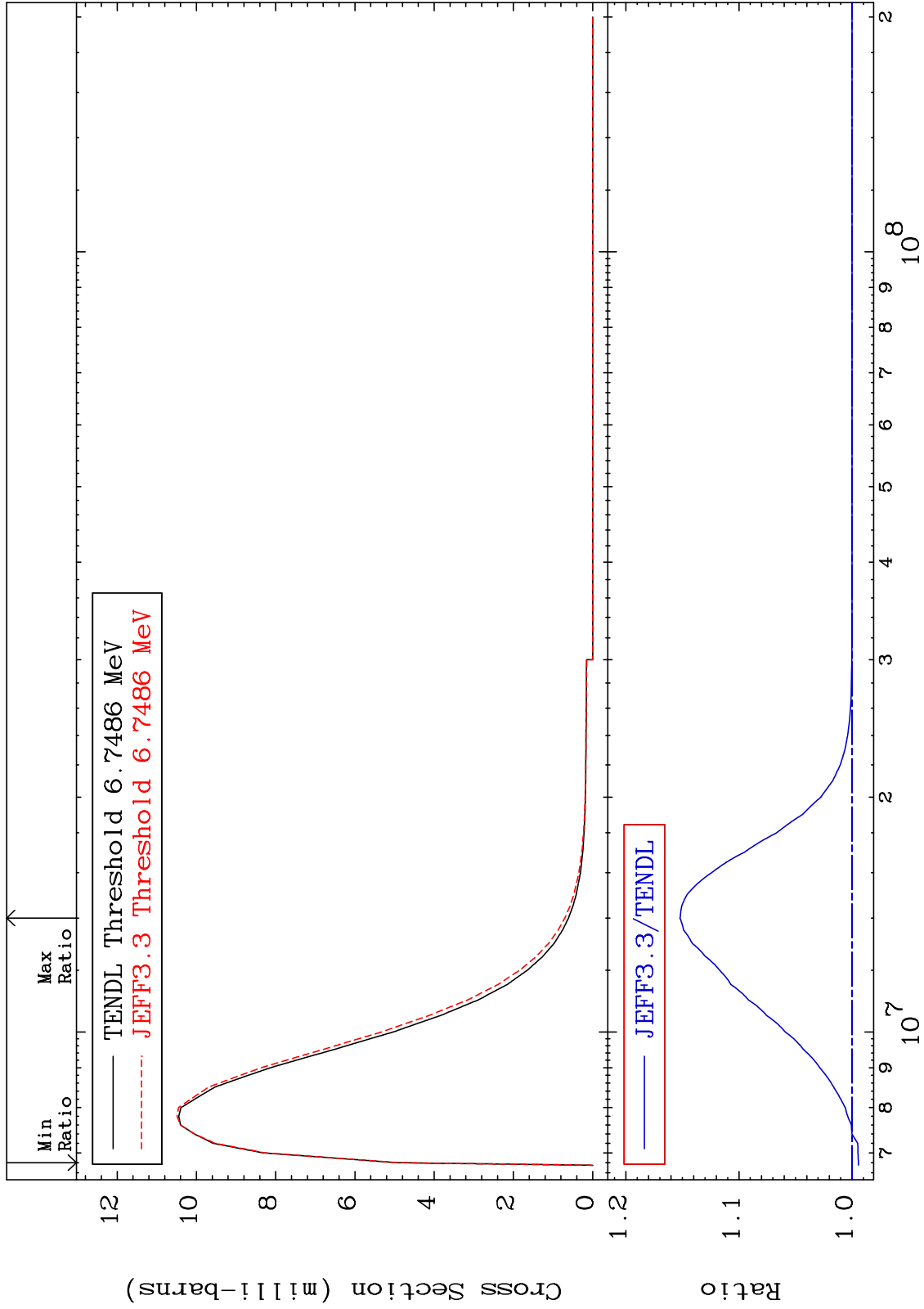
20-Ca-40
-0.276 To 16.75 %



MAT 2025

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

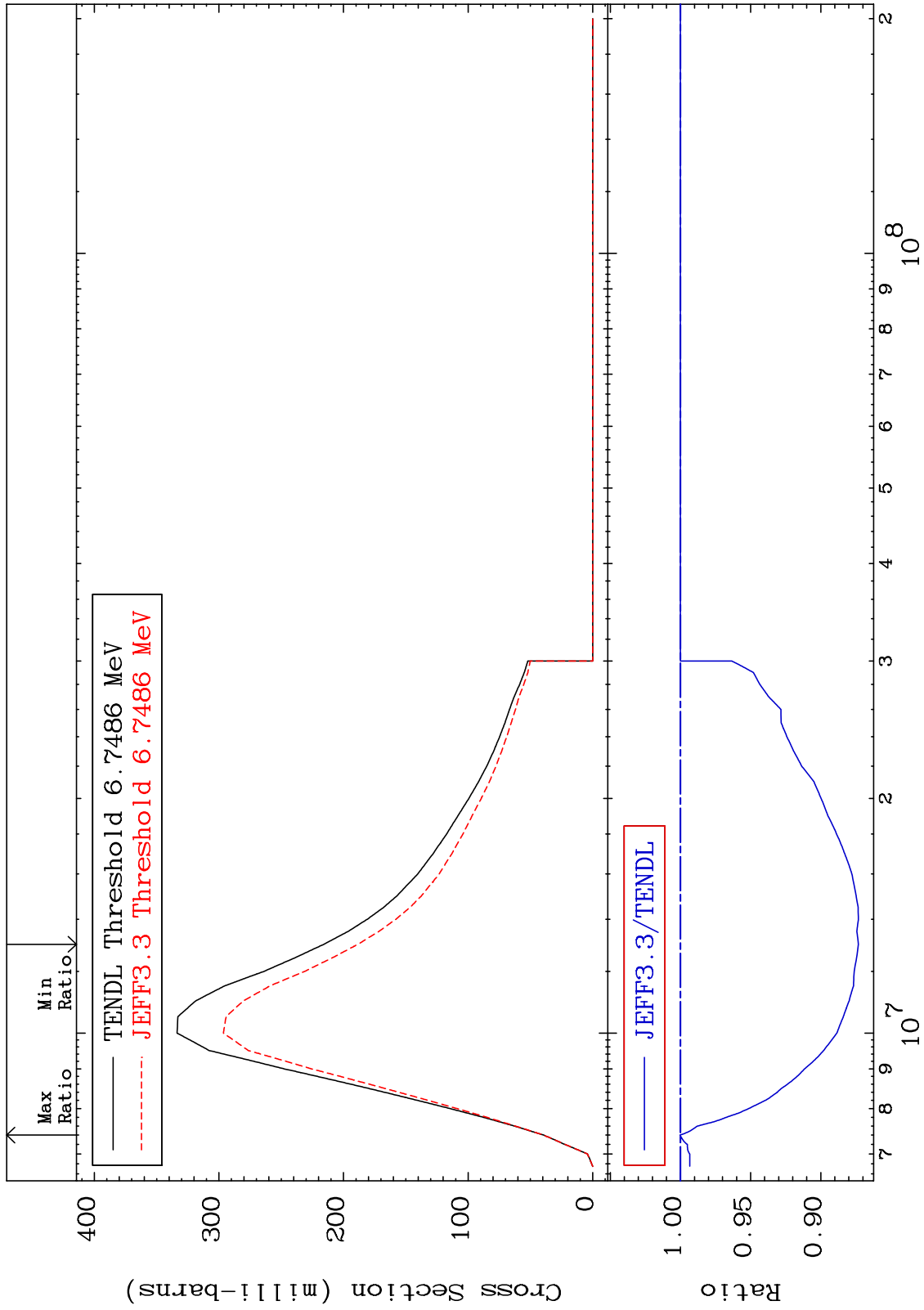
20-Ca-40
-0.564 To 15.21 %



MAT 2025

(n,n') Continuum
Cross Section

20-Ca-40
-12.68 To 0.029 %



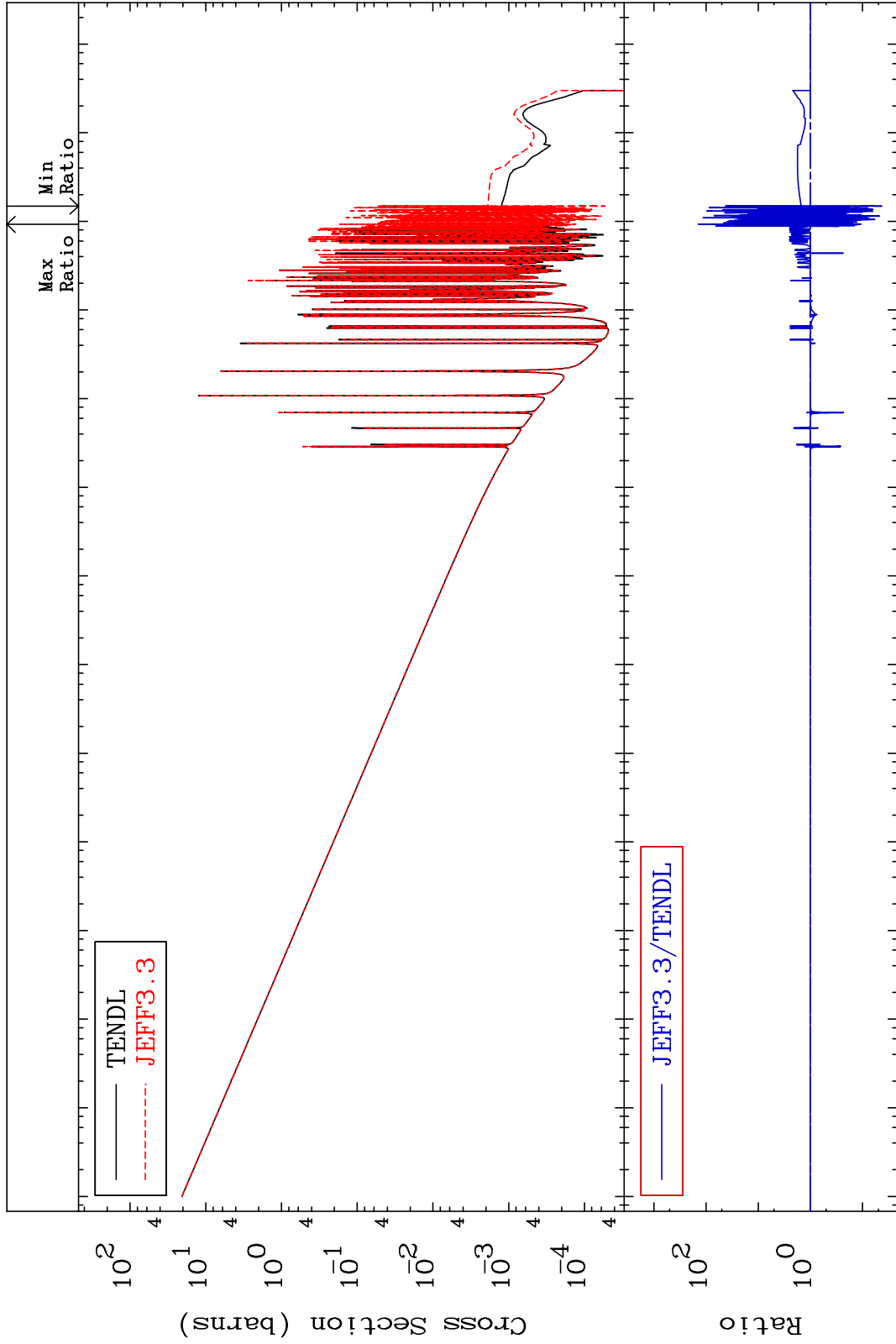
MAT 2025

(n, γ)

20-Ca-40

Cross Section

-95.68 To 9999. %



Incident Energy (eV)

35

20-Ca-40

20-Ca-40

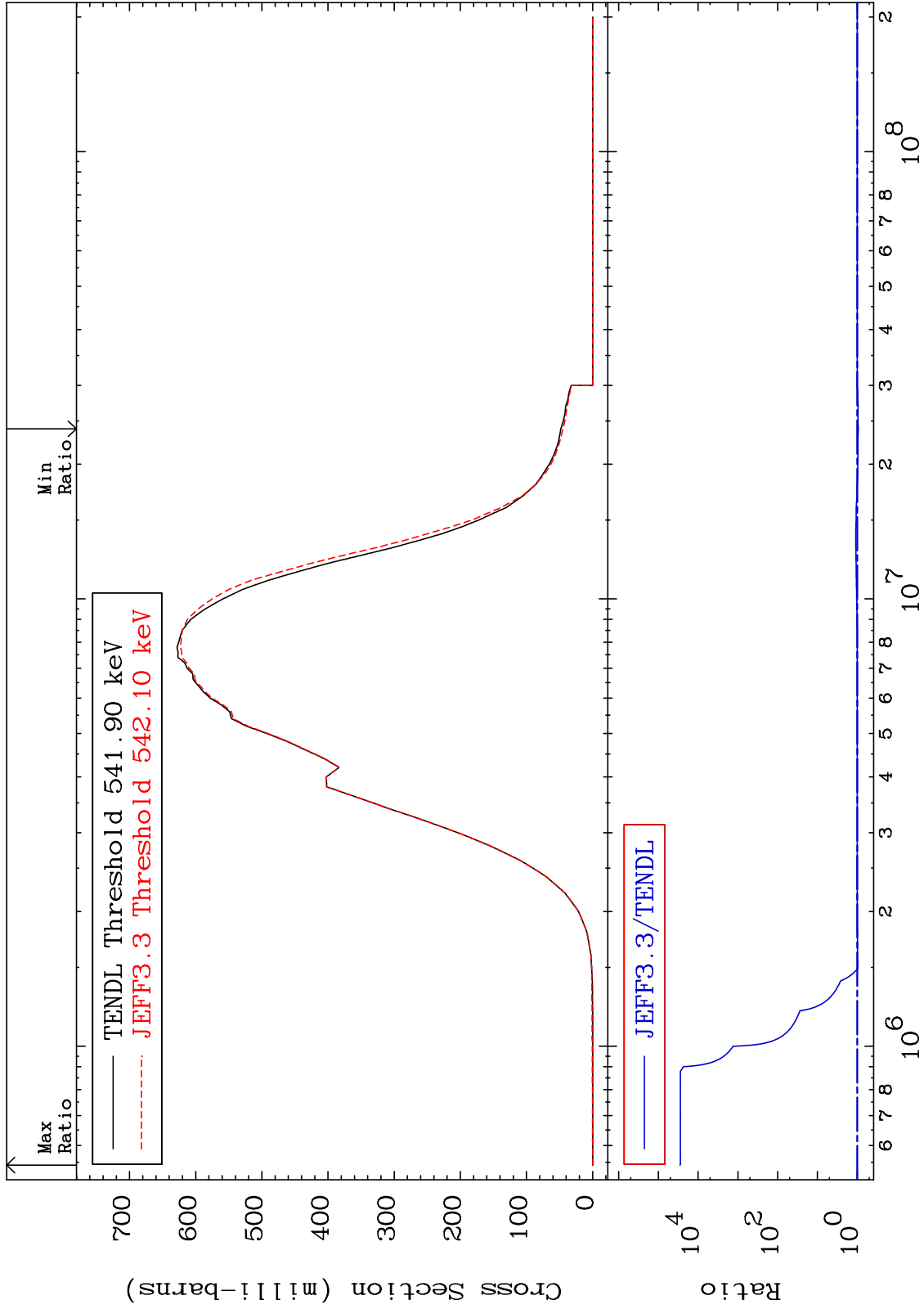
MAT 2025

(n,p)

20-Ca-40

Cross Section

-6.707 To 9999. %



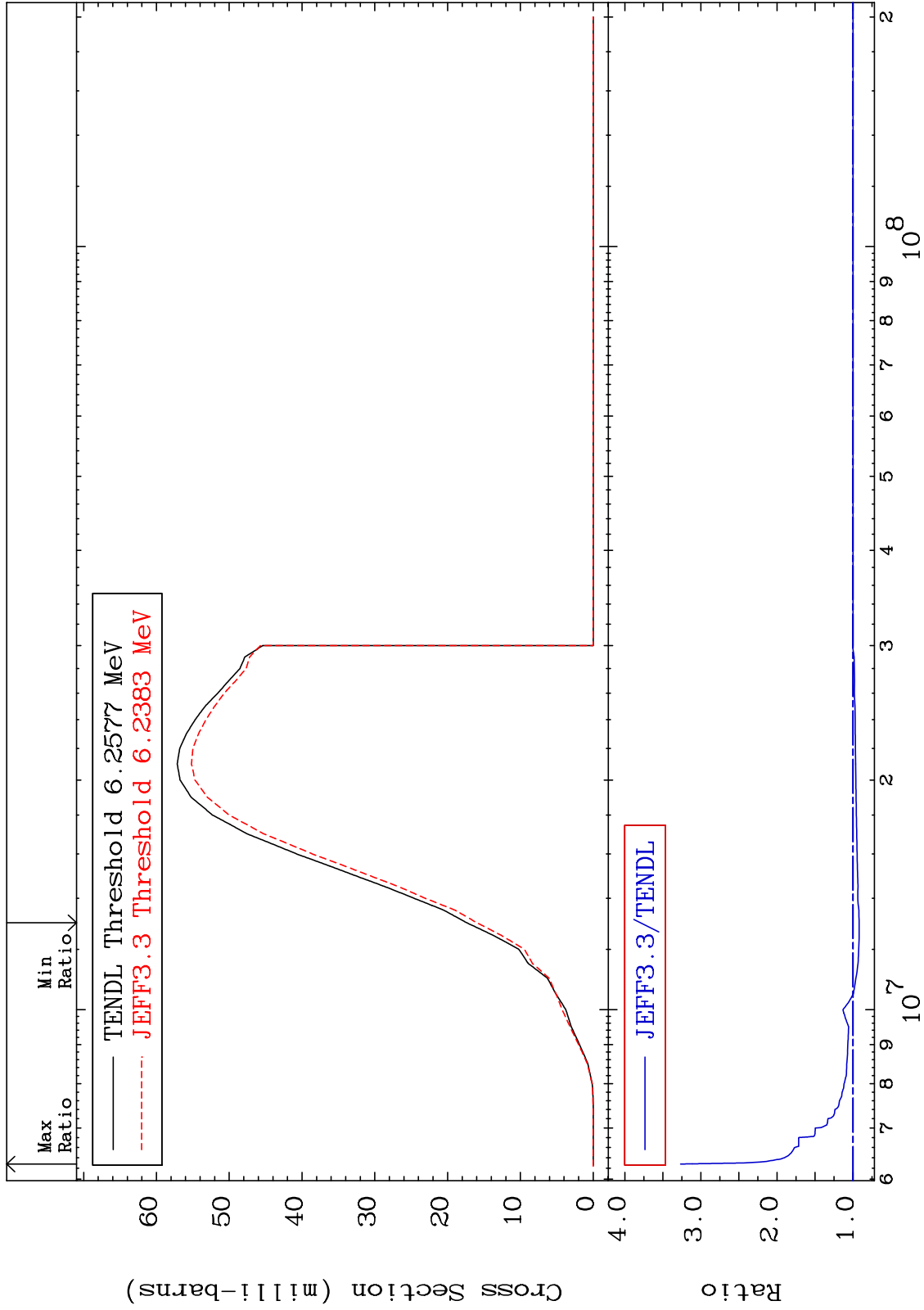
MAT 2025

(n, d)

20-Ca-40

Cross Section

-8.064 To 226.6 %



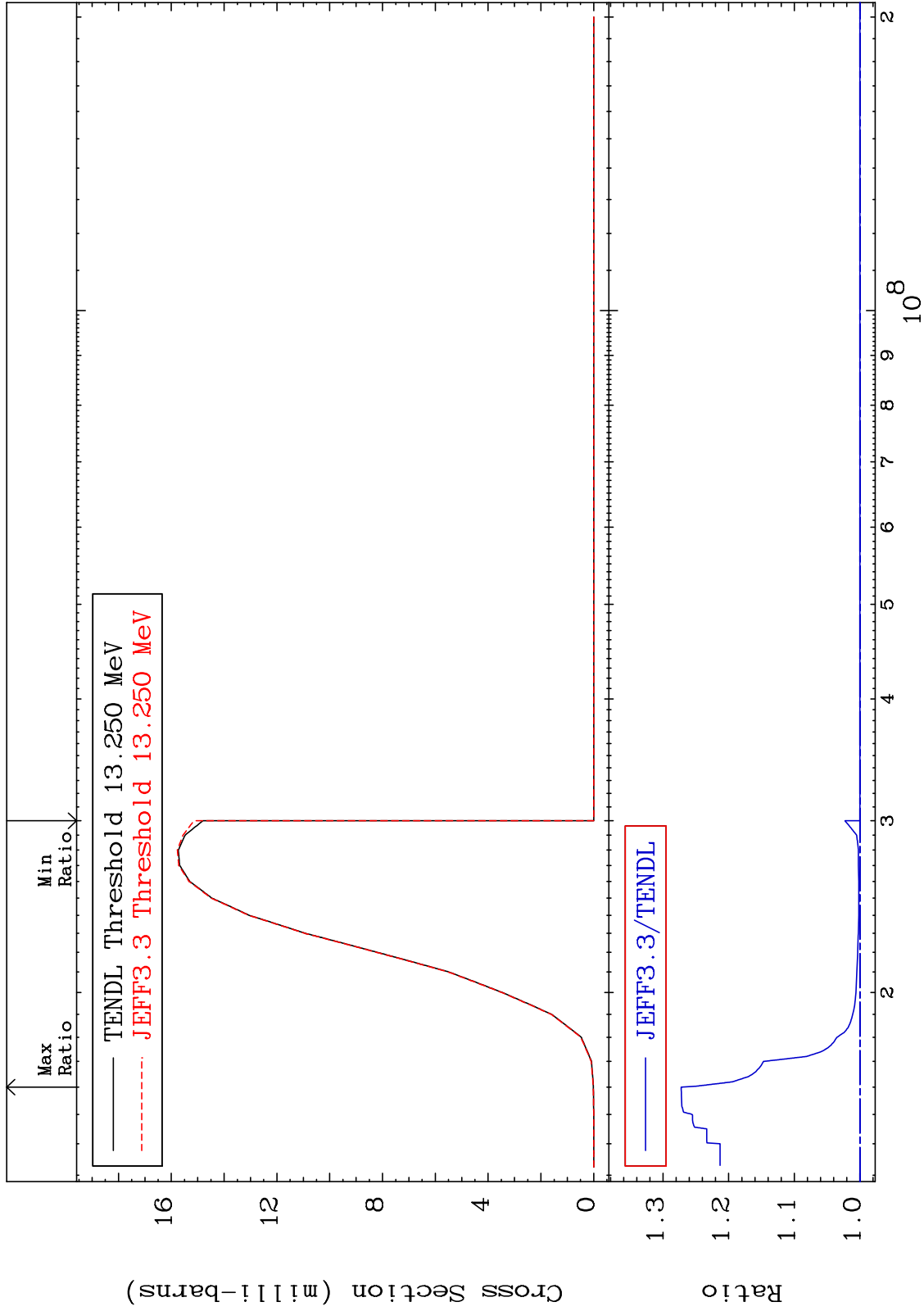
MAT 2025

(n, t)

20-Ca-40

Cross Section

0.000 To 27.23 %



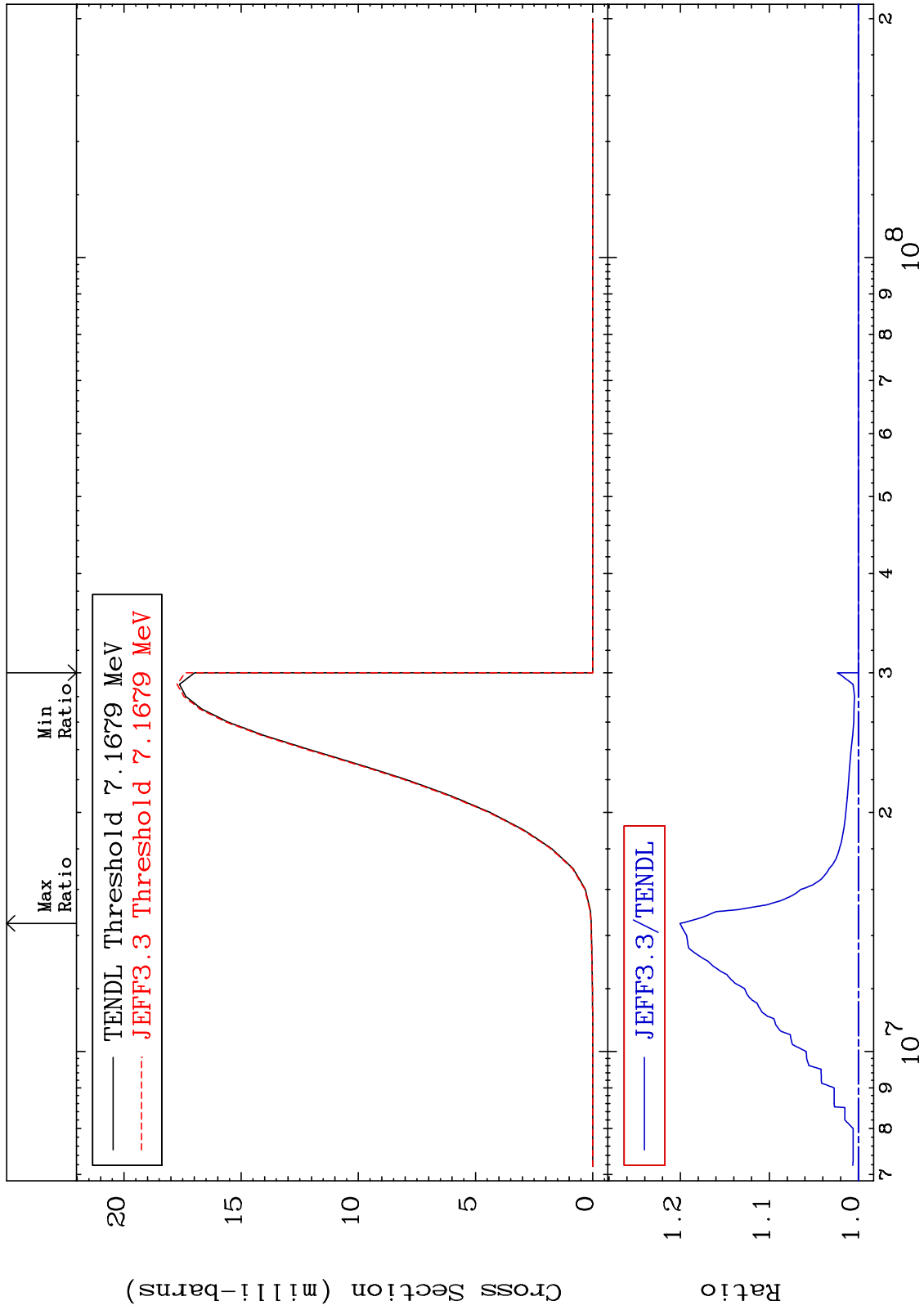
MAT 2025

(n, He-3)

20-Ca-40

Cross Section

0.000 To 20.04 %



39

Incident Energy (eV)

20-Ca-40

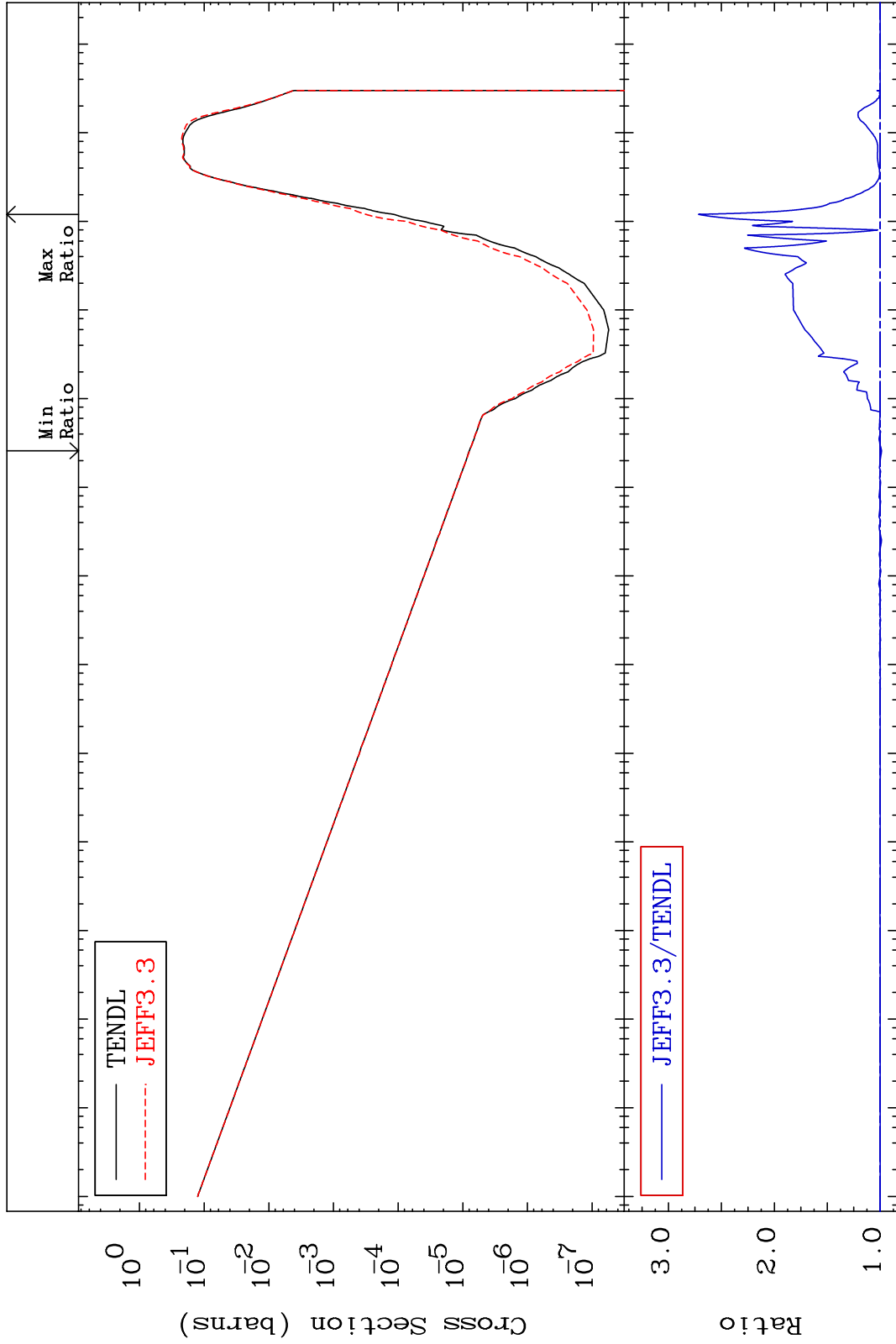
MAT 2025

(n, α)

20-Ca-40

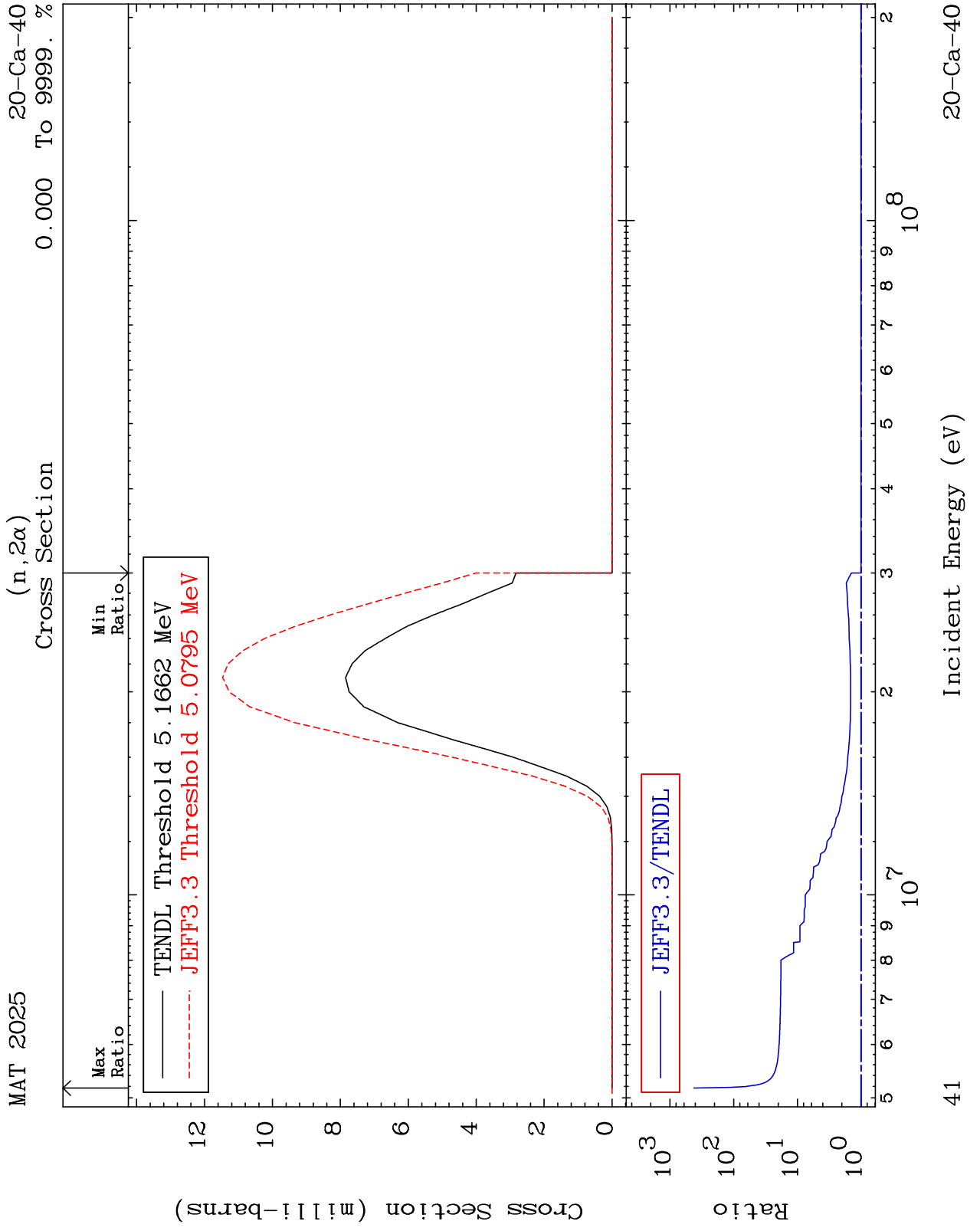
Cross Section

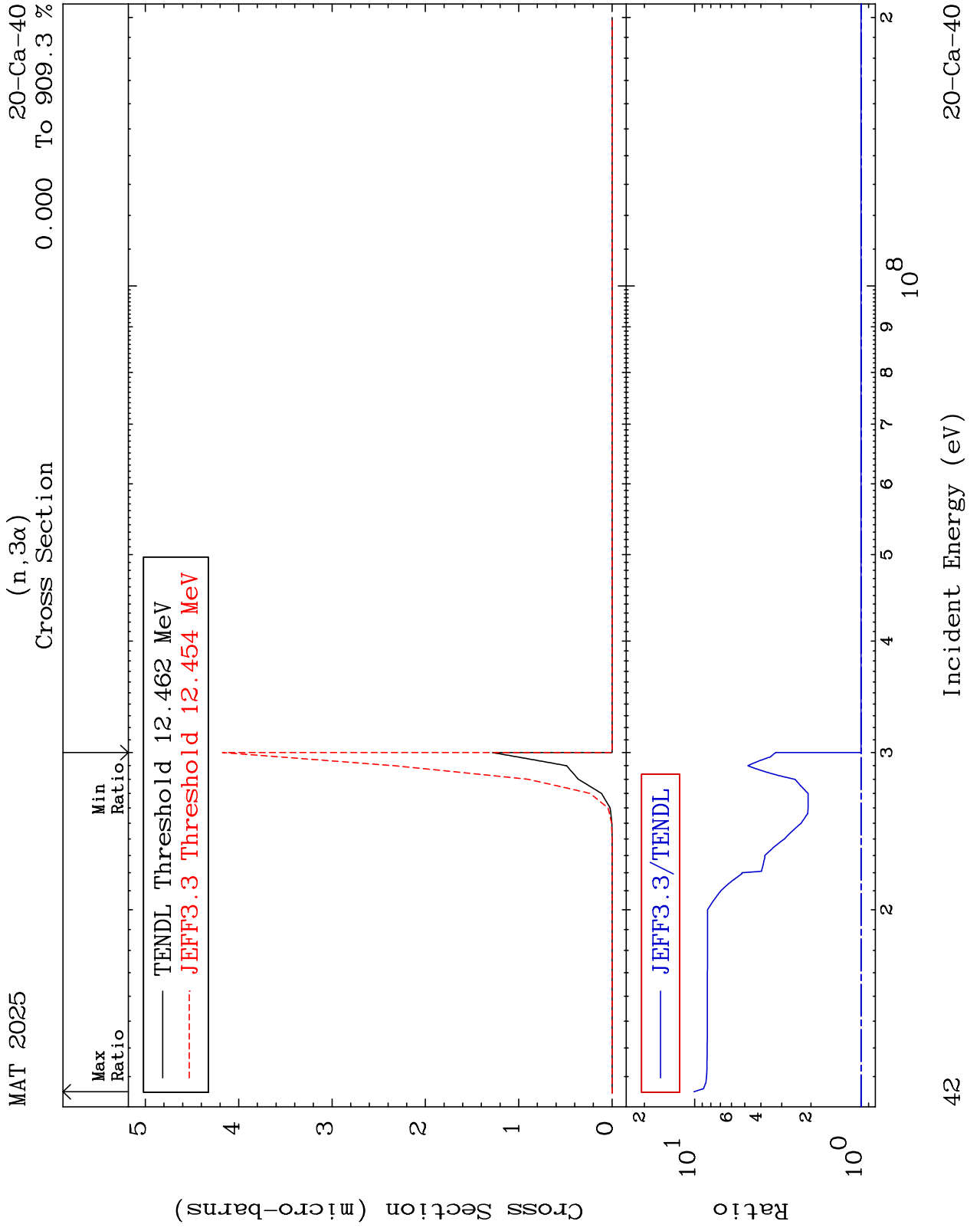
-1.366 To 171.8 %



Incident Energy (eV)

20-Ca-40





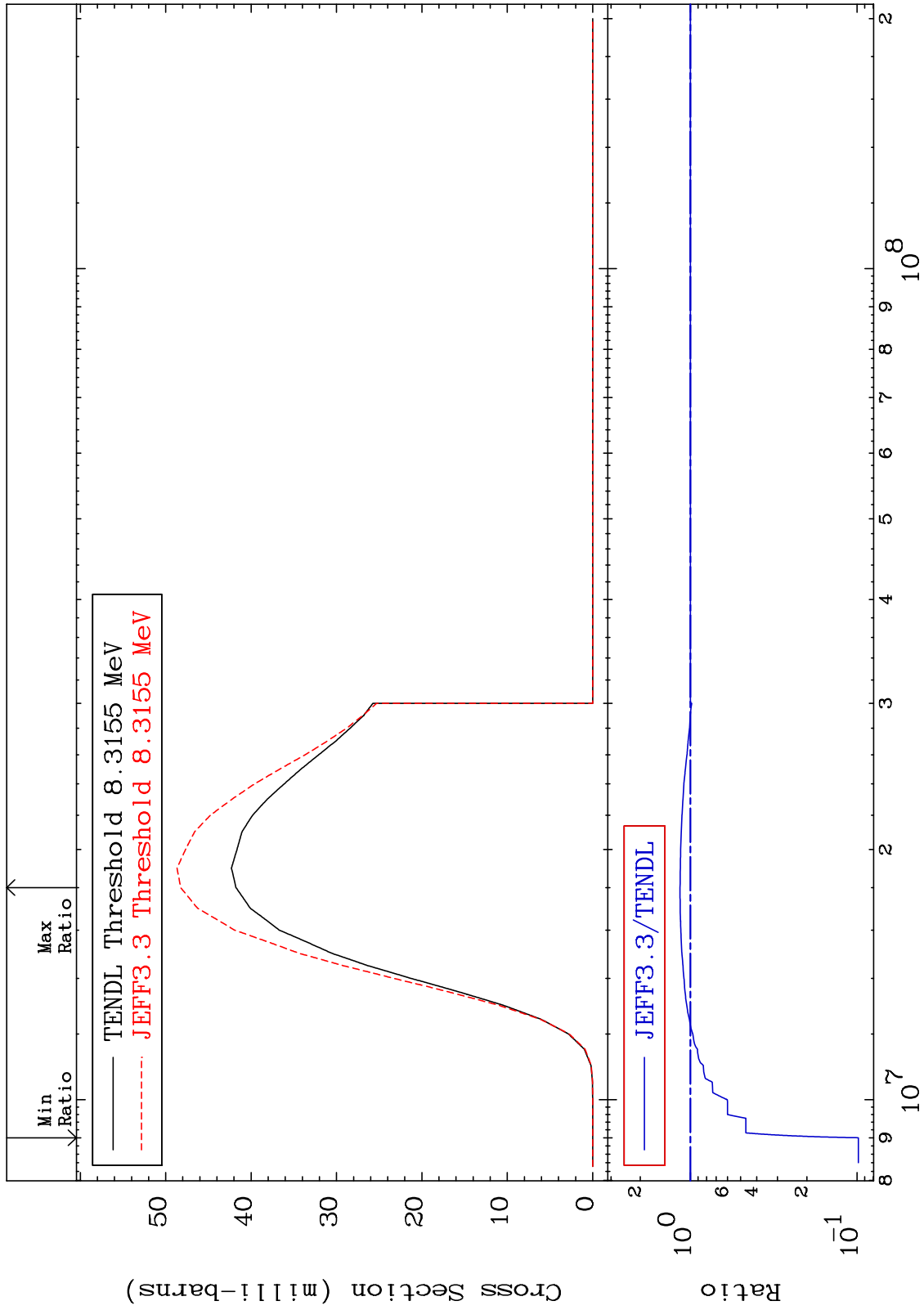
MAT 2025

(n,2p)

20-Ca-40

Cross Section

-90.19 To 15.52 %



43

Incident Energy (eV)

20-Ca-40

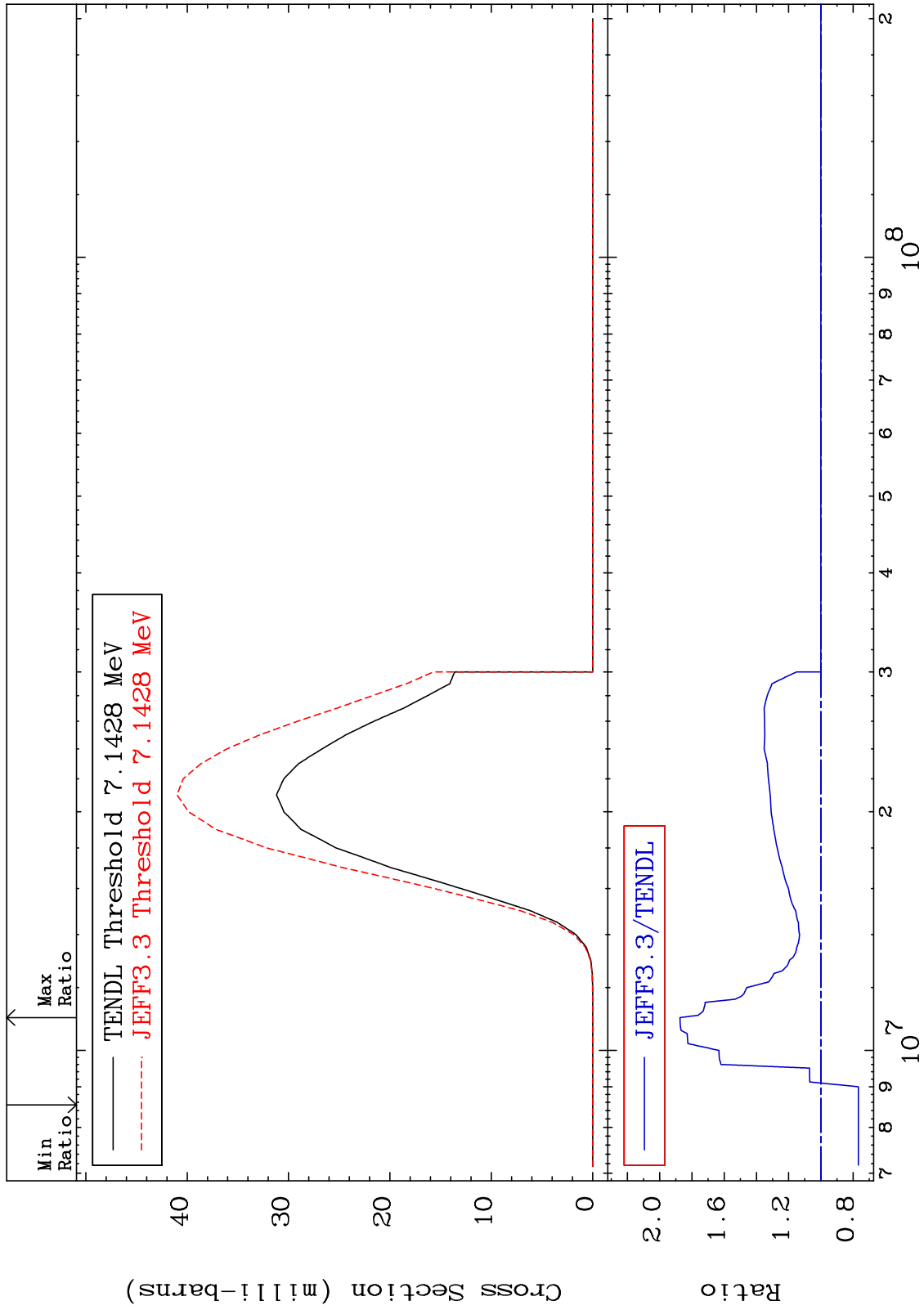
MAT 2025

(n,p) α

20-Ca-40

Cross Section

-23.25 To 87.37 %



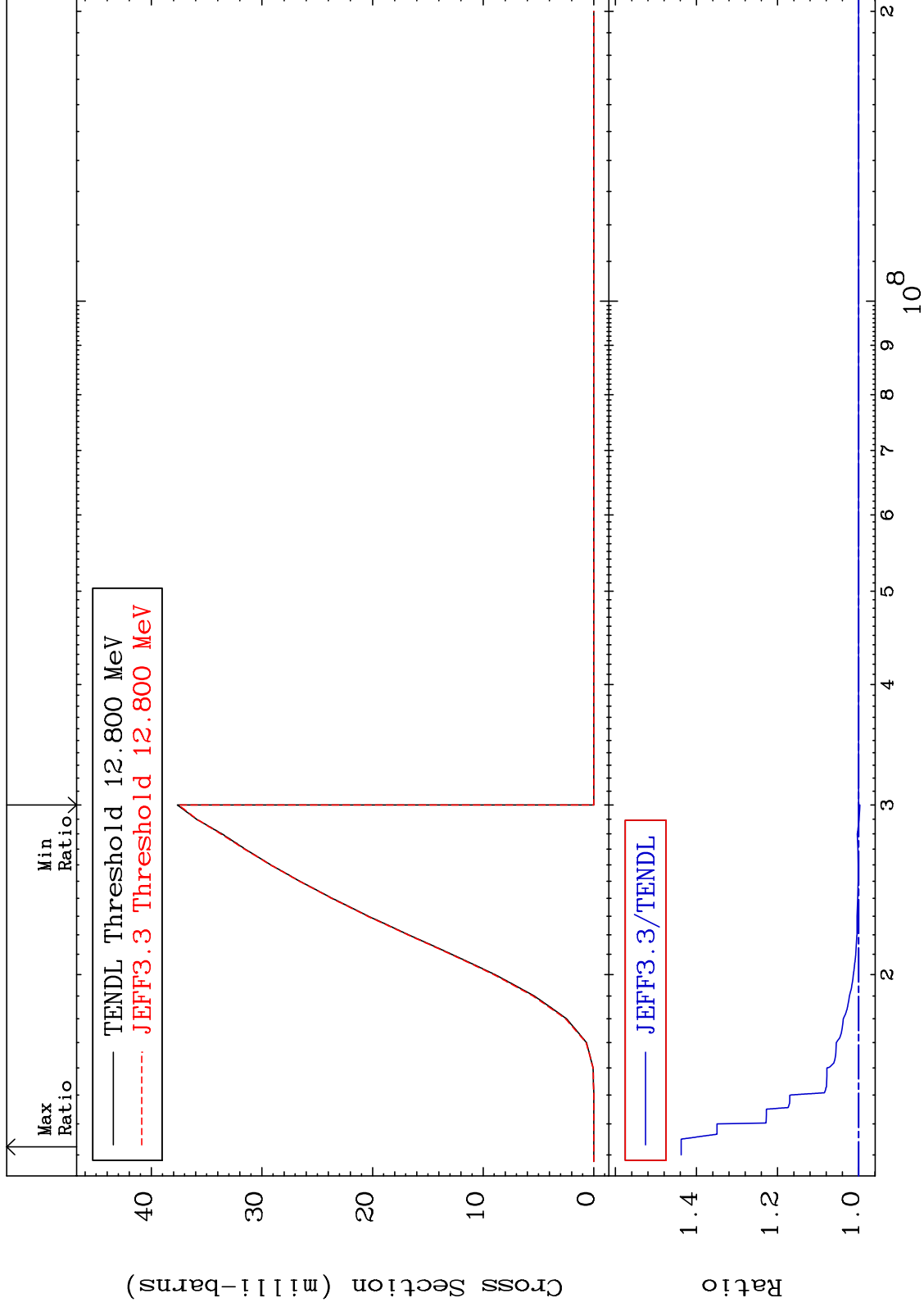
MAT 2025

(n,p) d

20-Ca-40

Cross Section

-0.309 To 43.78 %



45

Incident Energy (eV)

20-Ca-40

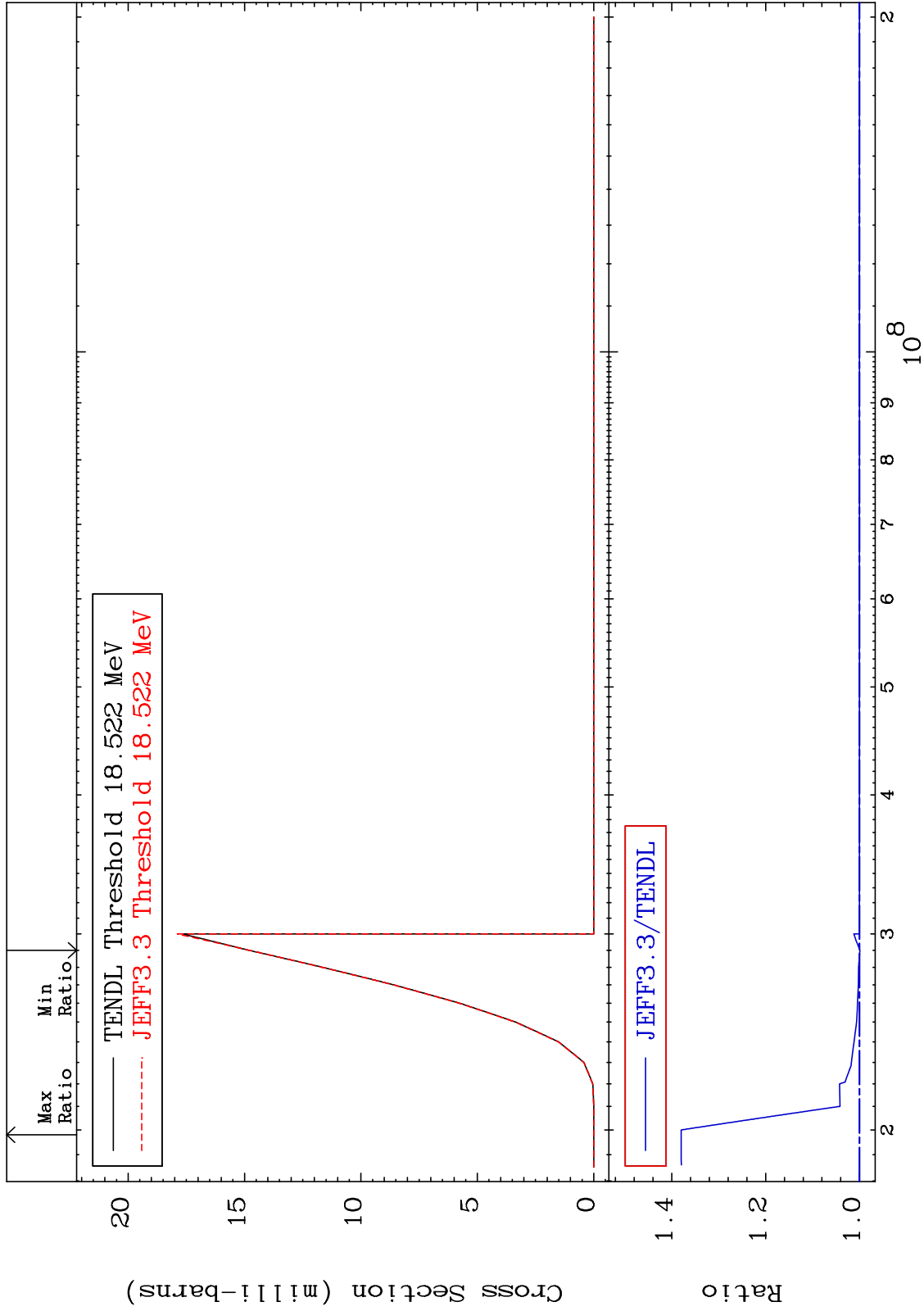
MAT 2025

(n,p) t

20-Ca-40

Cross Section

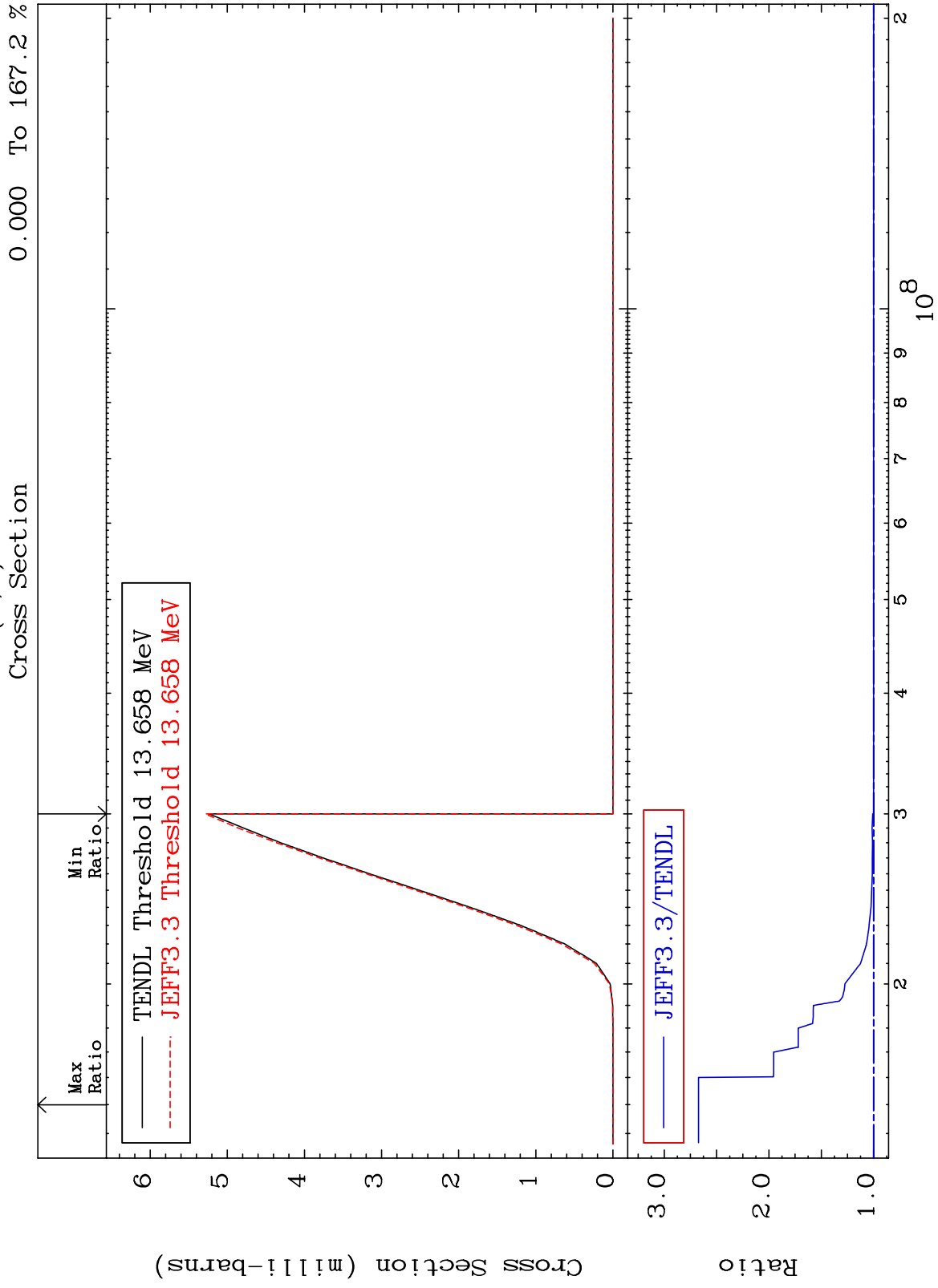
-0.084 To 37.97 %



MAT 2025

(n,d) α

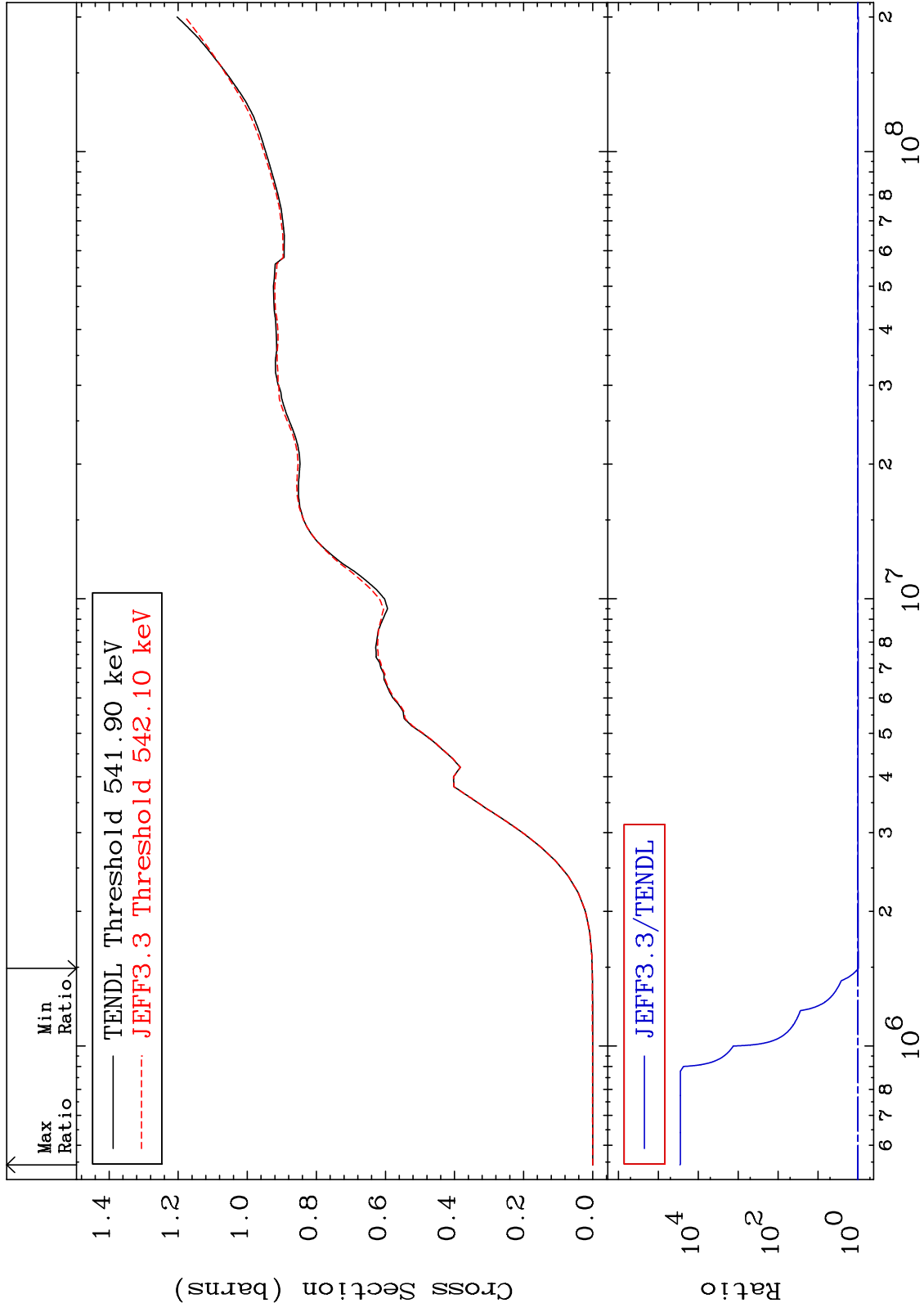
20-Ca-40
0.000 To 167.2 %



MAT 2025

Hydrogen Production
Cross Section

20-Ca-40
-2.540 To 9999. %



48

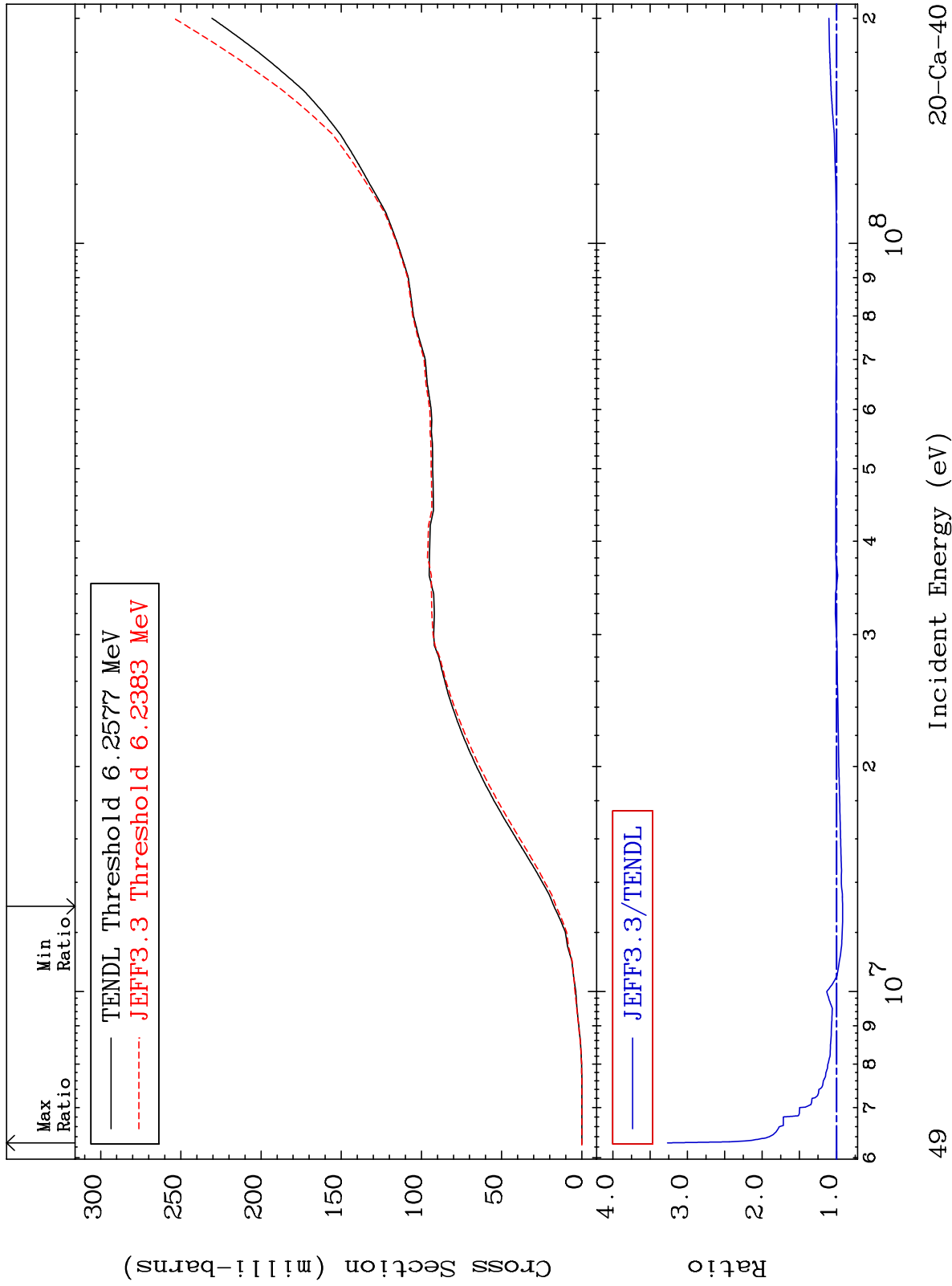
Incident Energy (eV)

20-Ca-40

MAT 2025

Deuterium Production
Cross Section

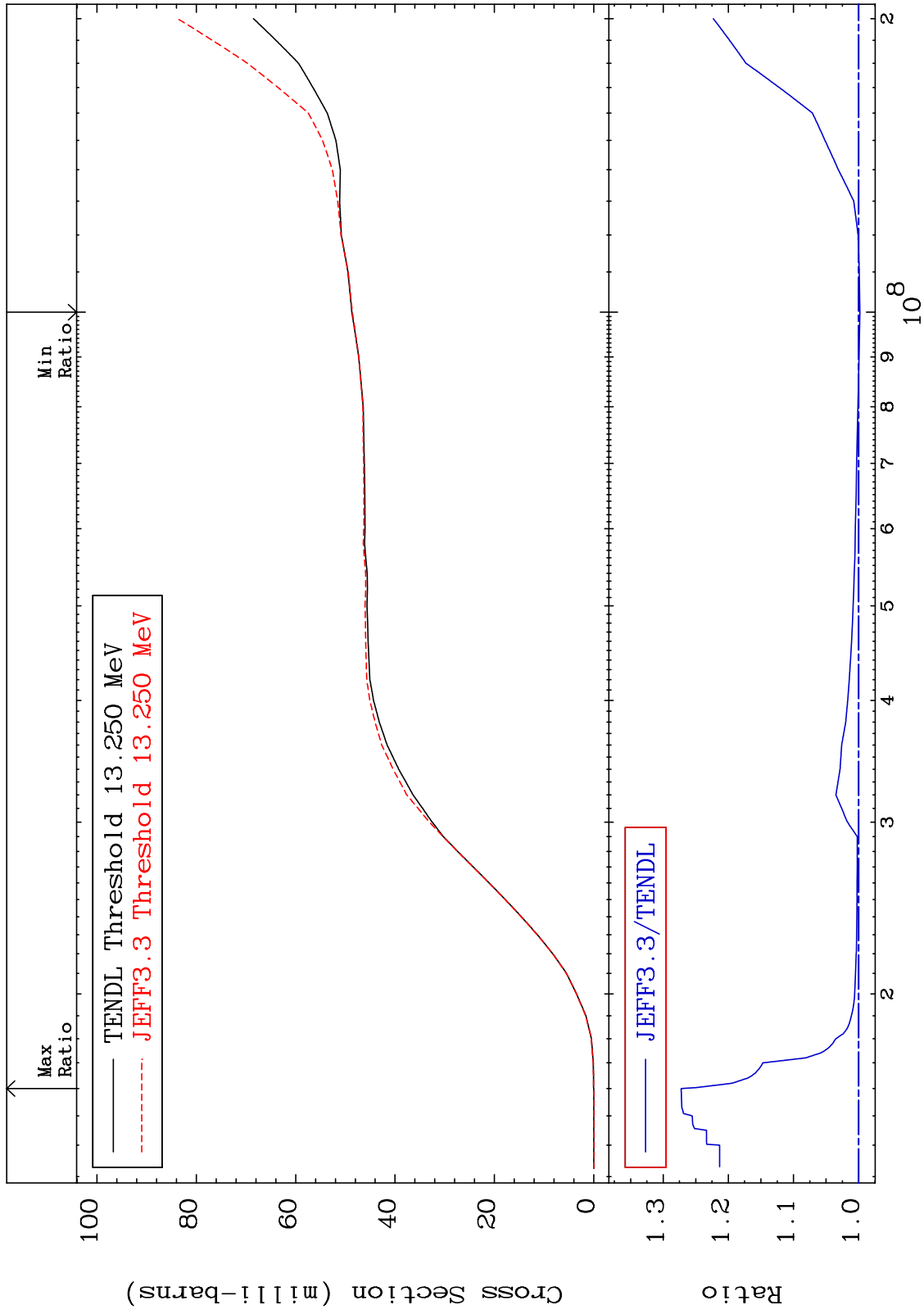
20-Ca-40
-8.064 To 226.6 %



MAT 2025

Tritium Production
Cross Section

20-Ca-40
-0.195 To 27.23 %



50

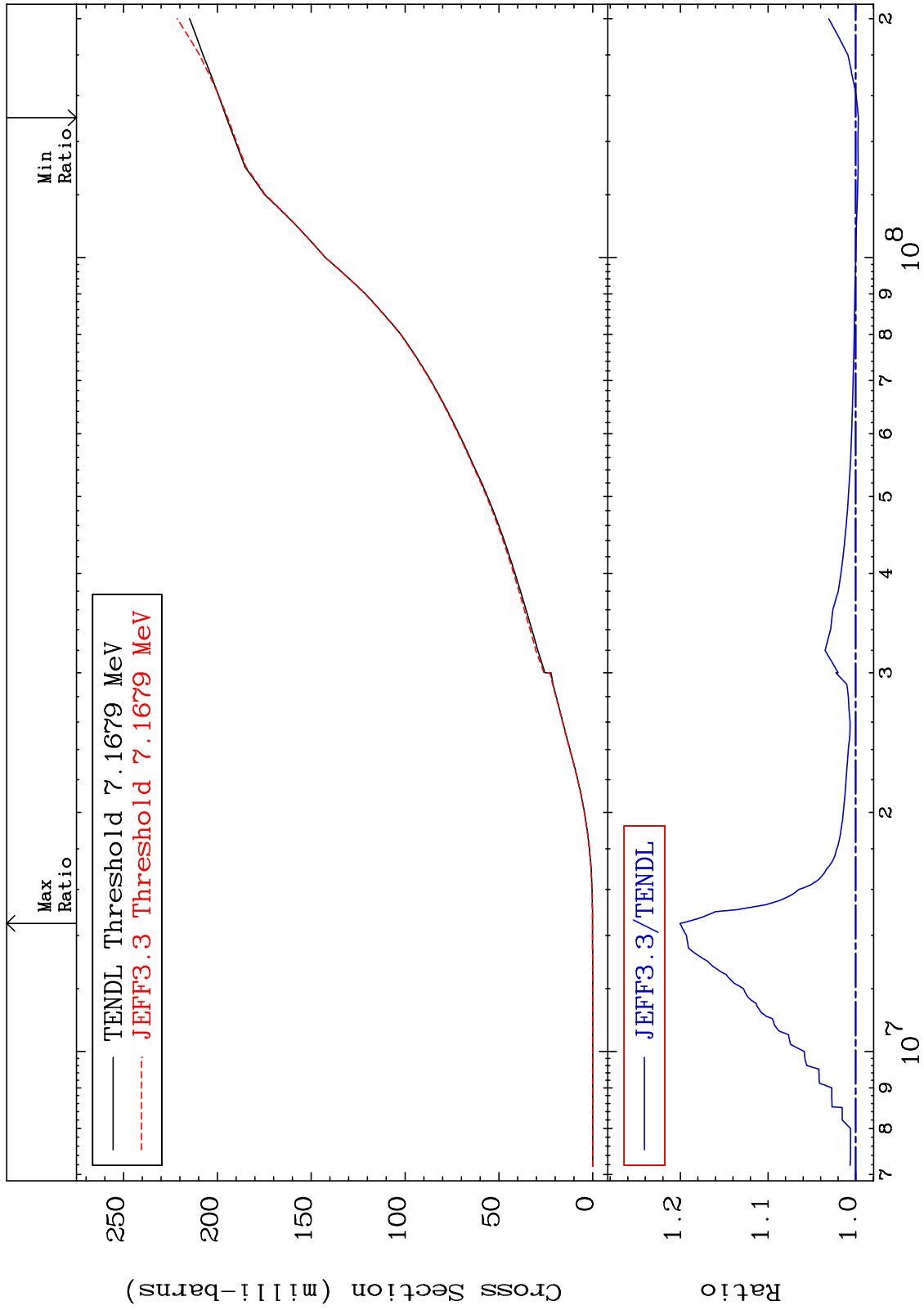
Incident Energy (eV)

20-Ca-40

MAT 2025

He-3 Production
Cross Section

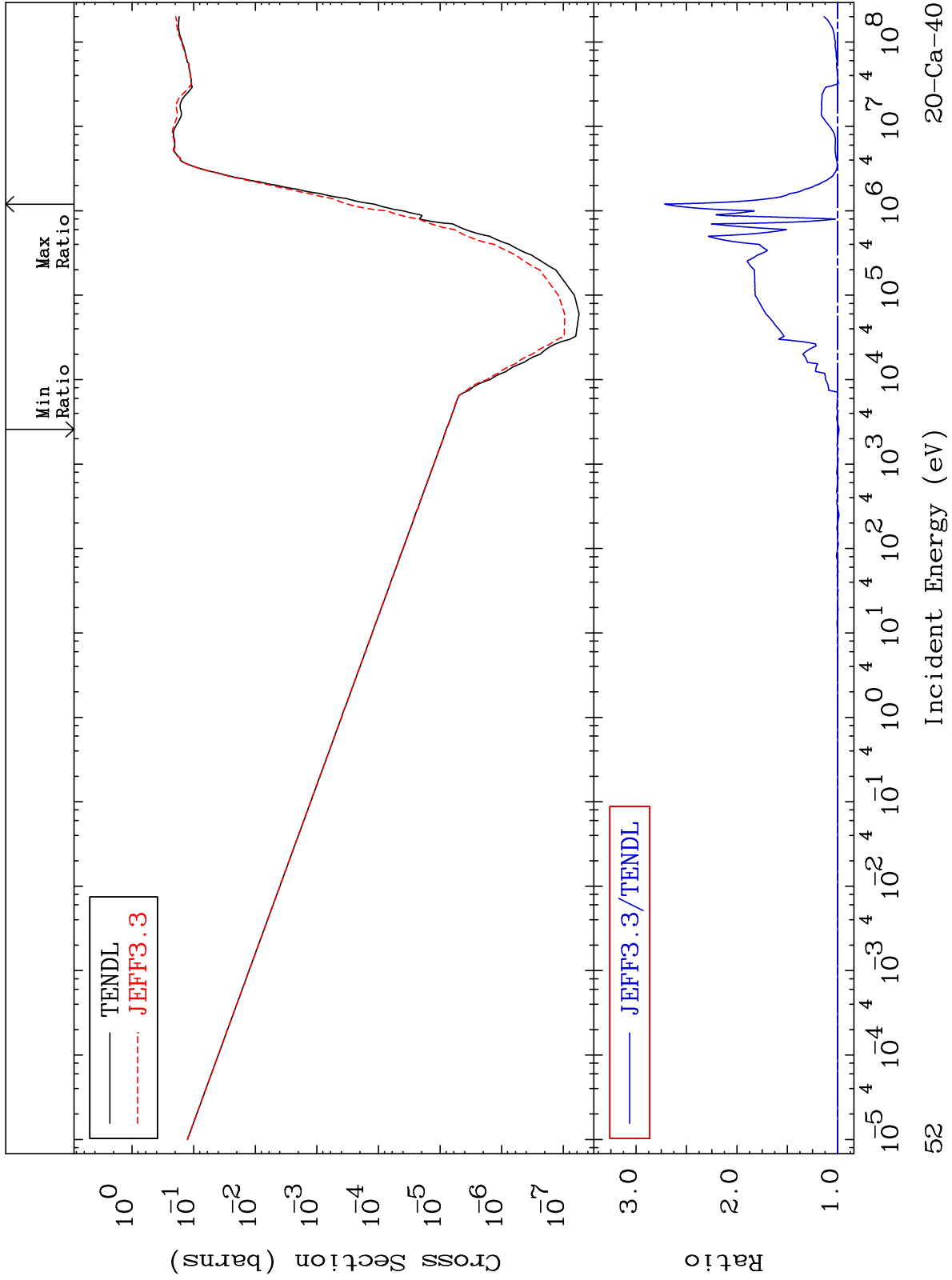
20-Ca-40
-0.312 To 20.04 %



MAT 2025

He-4 Production
Cross Section

20-Ca-40
-1.366 To 171.8 %



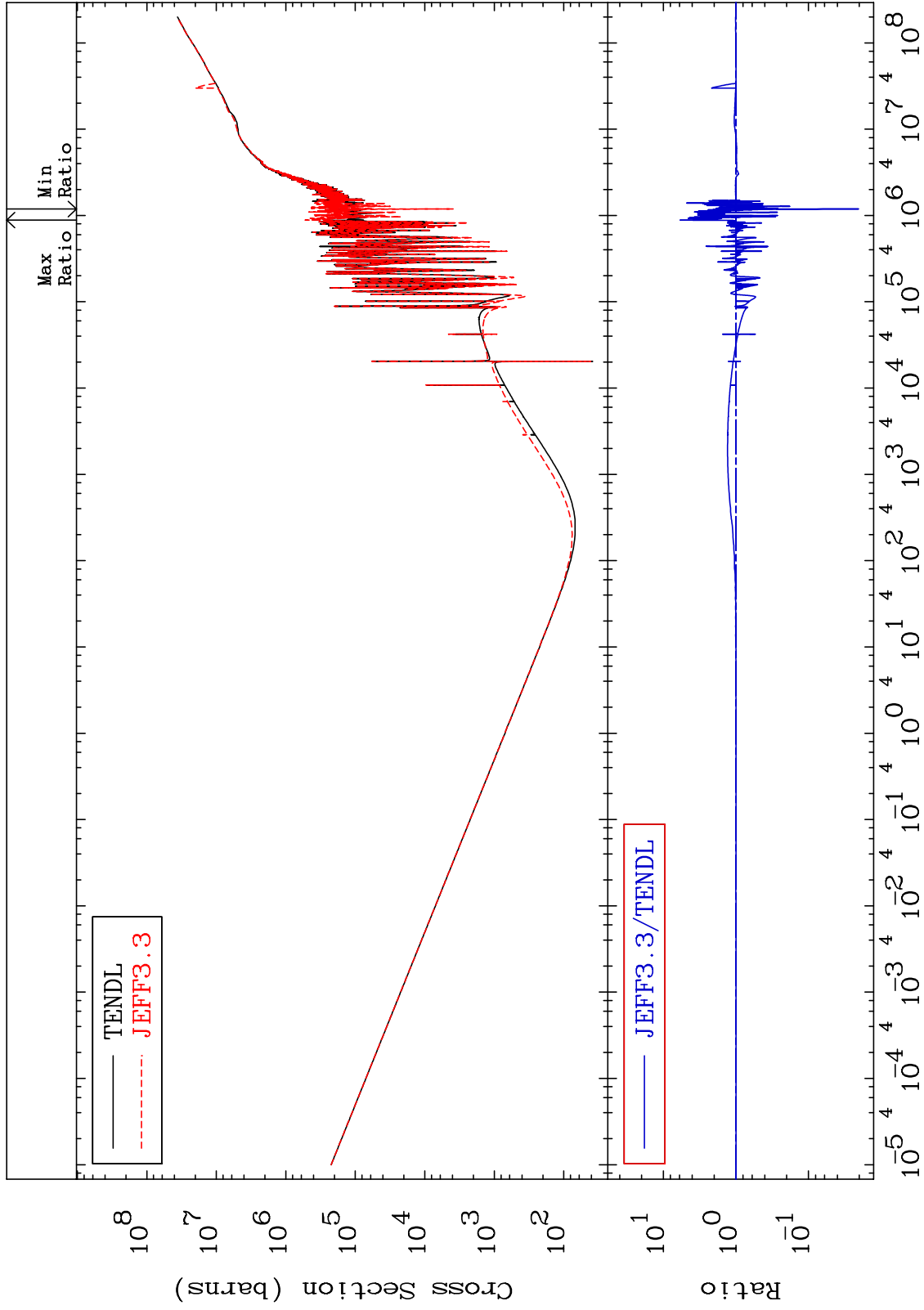
52

20-Ca-40

MAT 2025

Kerma total (eV-barns)
Cross Section

20-Ca-40
-97.95 To 489.5 %



53

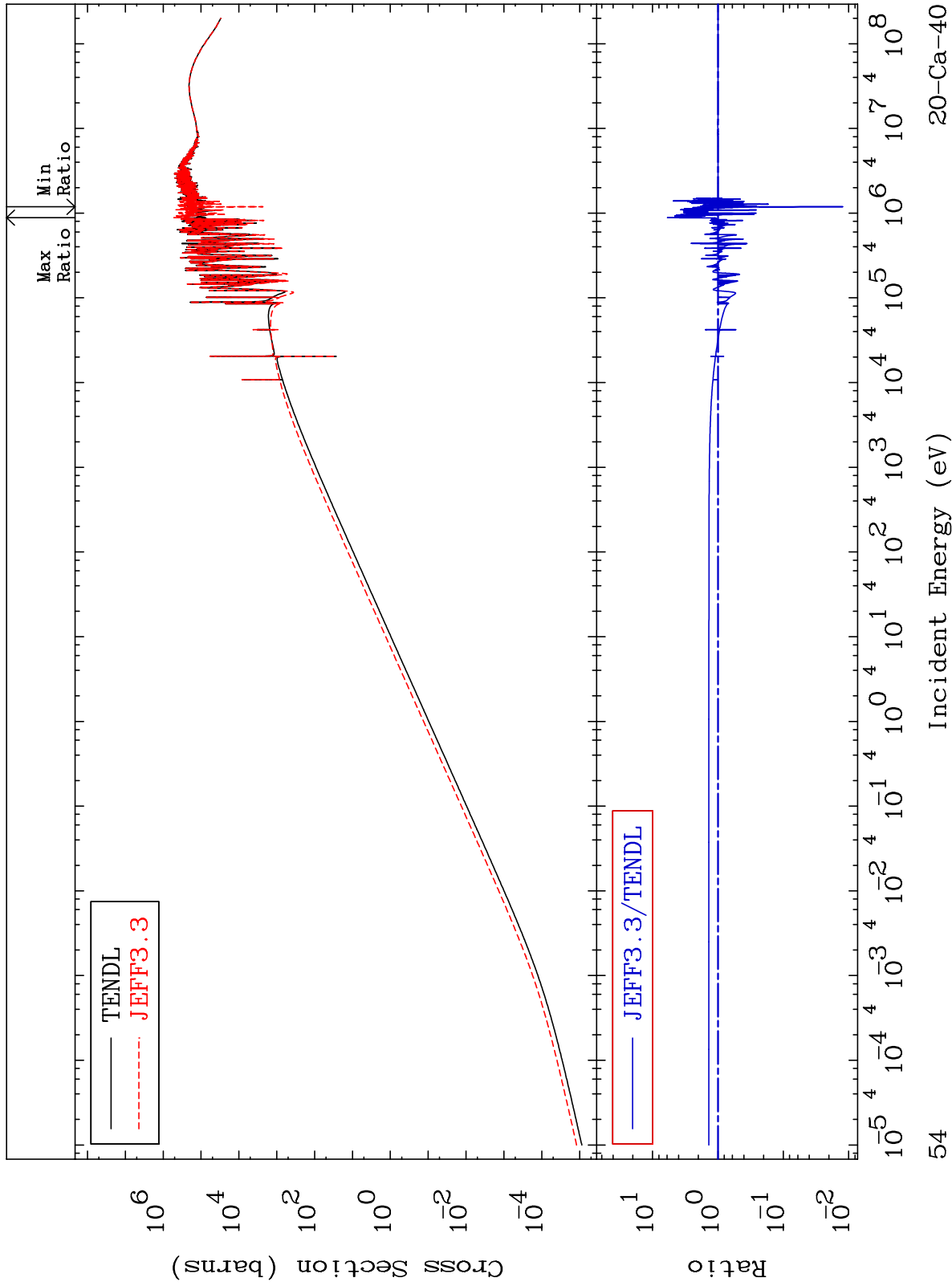
Incident Energy (eV)

20-Ca-40

MAT 2025

Kerma elastic
Cross Section

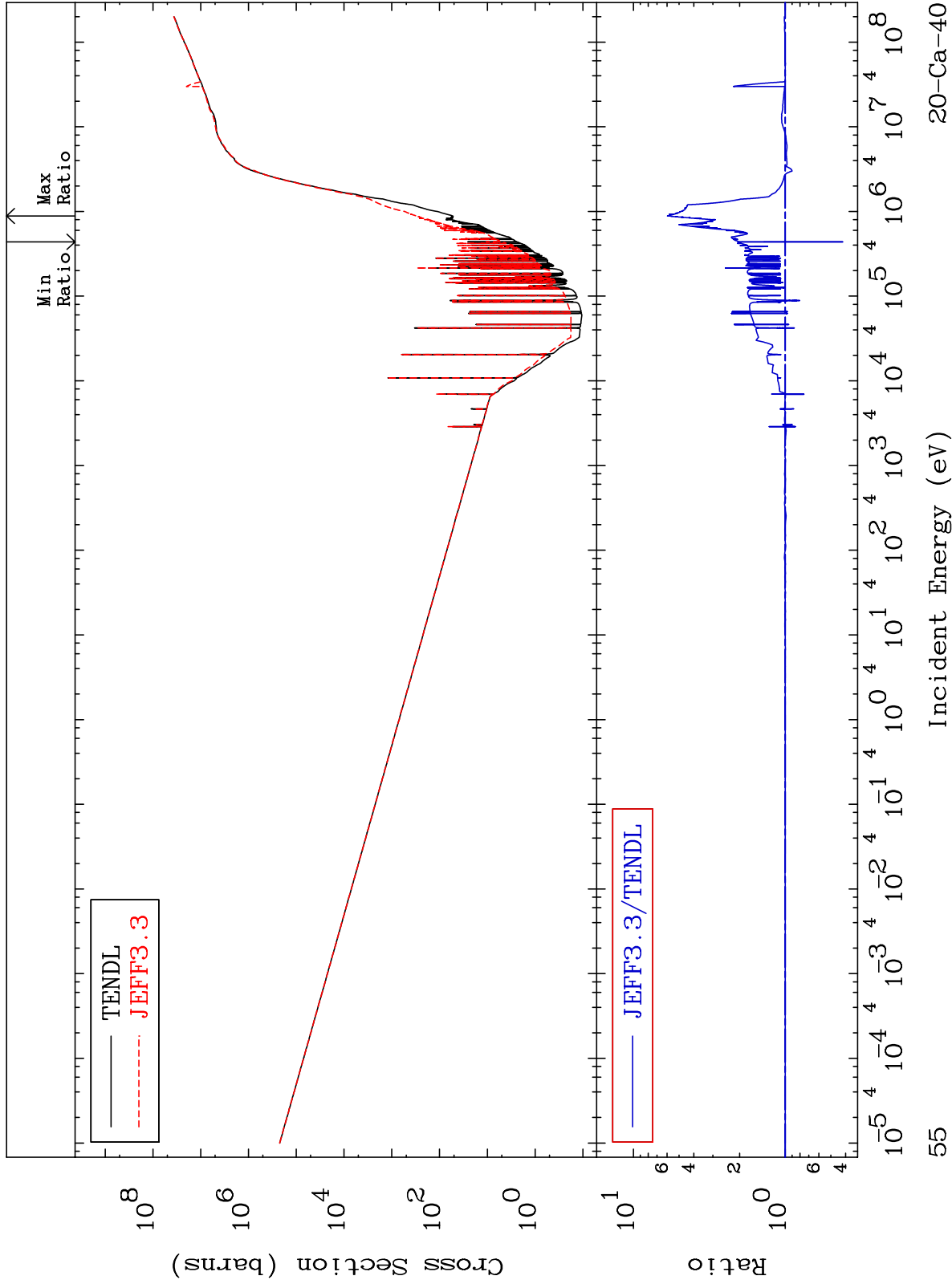
20-Ca-40
-98.77 To 489.5 %



MAT 2025

Kerma non-elastic (all but mt2)
Cross Section

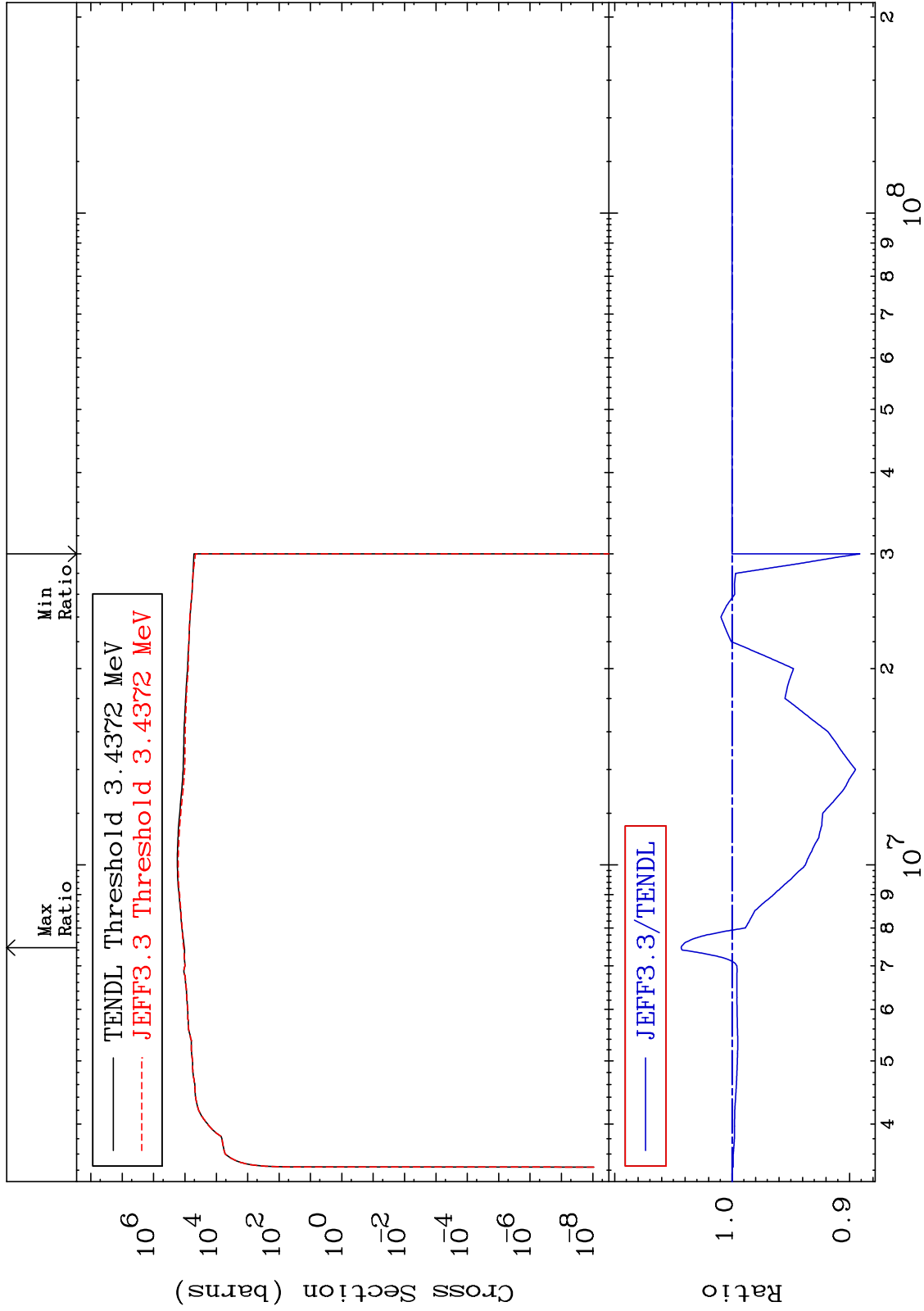
20-Ca-40
-58.17 To 496.1 %



55

Incident Energy (eV)

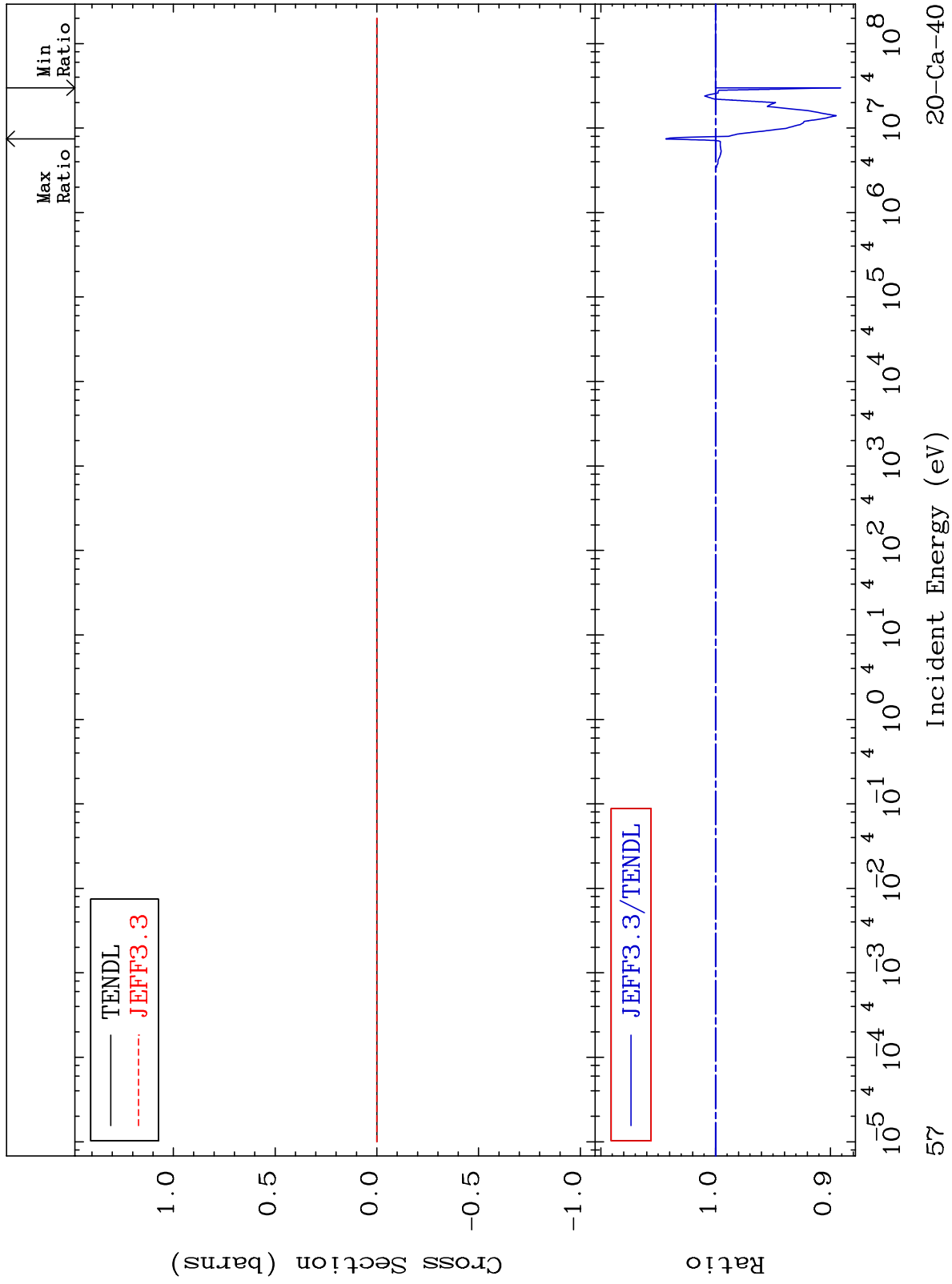
20-Ca-40



MAT 2025

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

20-Ca-40
-10.88 To 4.333 %



57

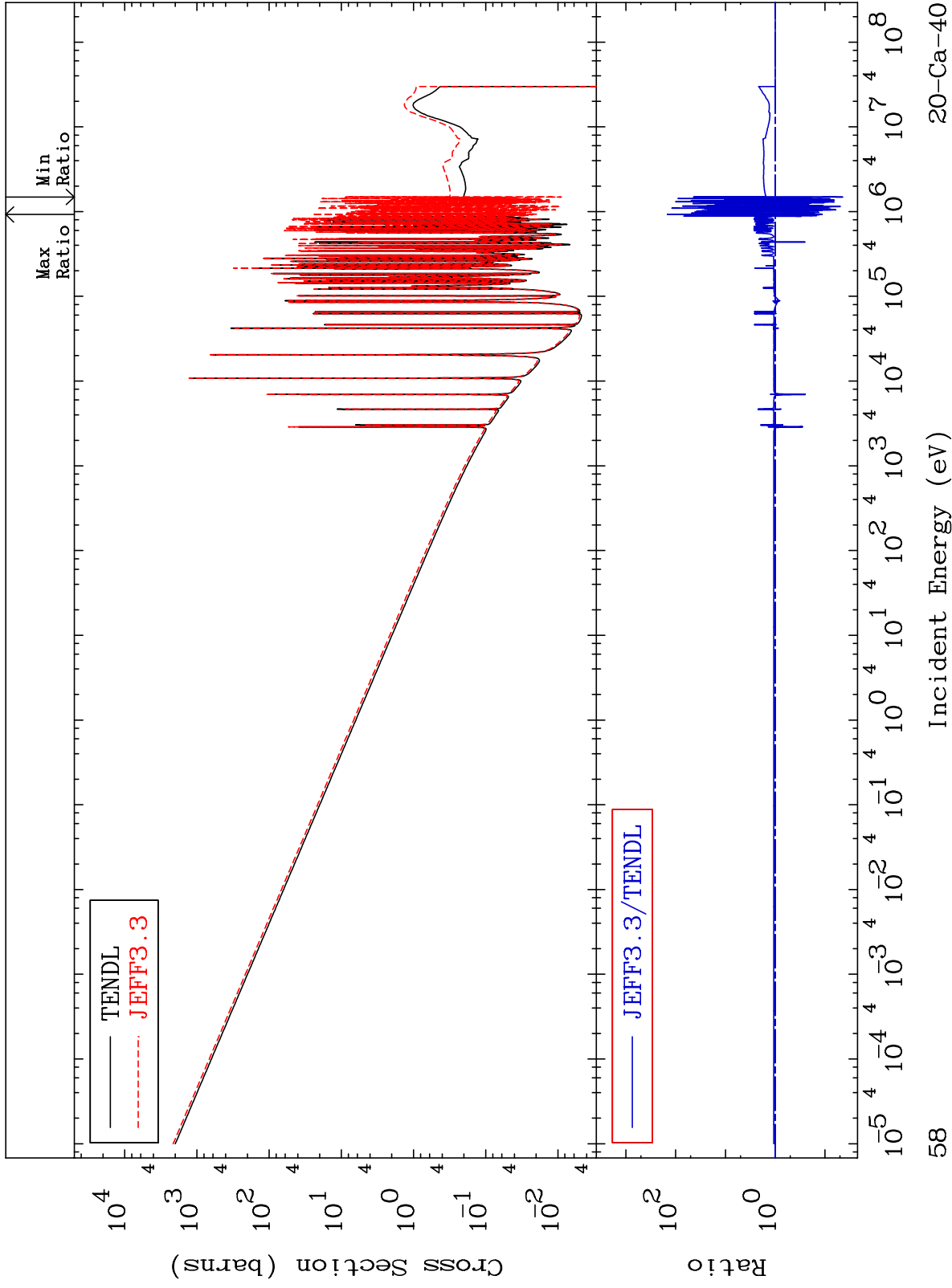
Incident Energy (eV)

20-Ca-40

MAT 2025

Kerma capture (mt102)
Cross Section

20-Ca-40
-95.56 To 9999. %



58

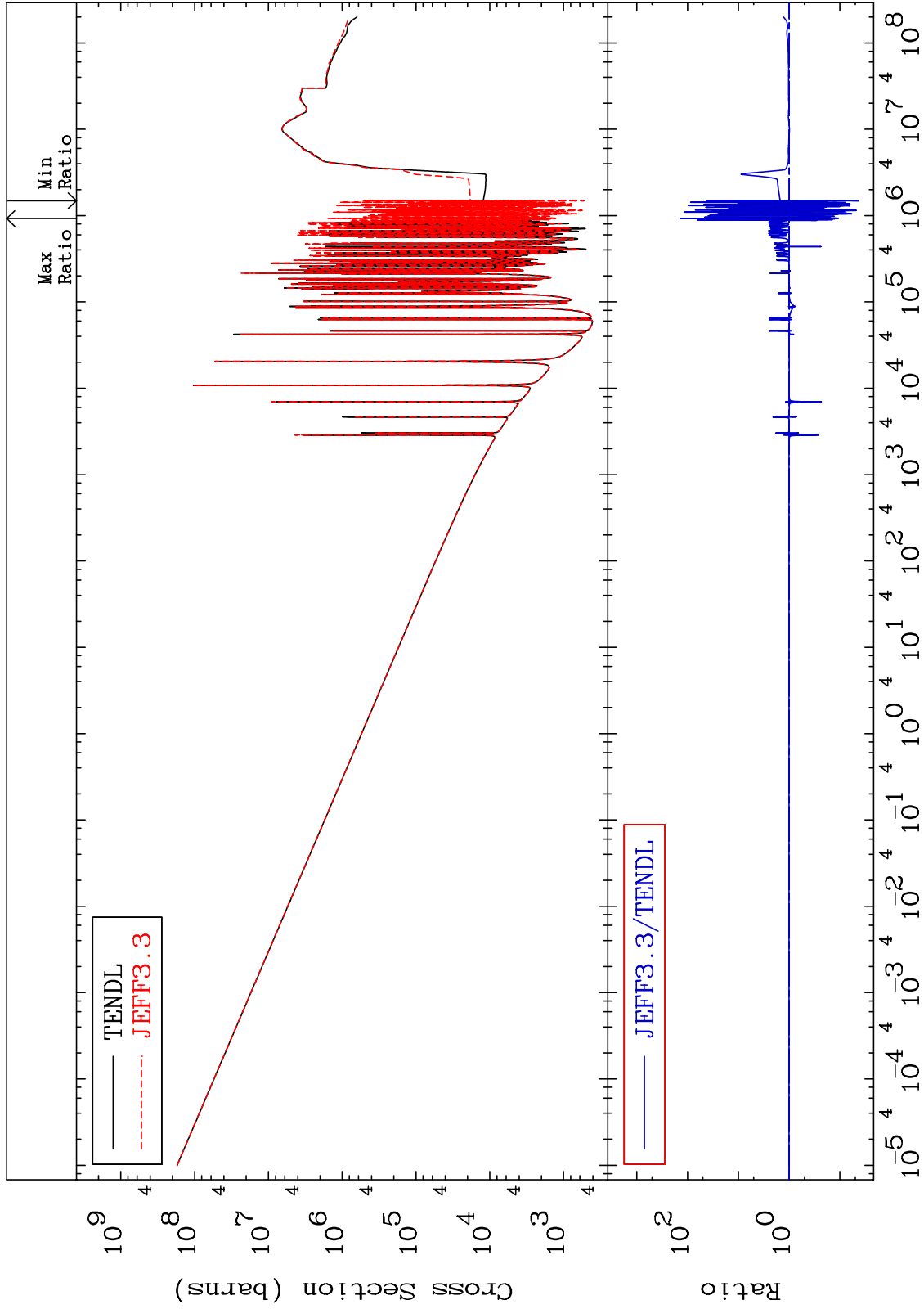
Incident Energy (eV)

20-Ca-40

MAT 2025

Total photon (eV-barns)
Cross Section

20-Ca-40
-95.67 To 9999. %



59

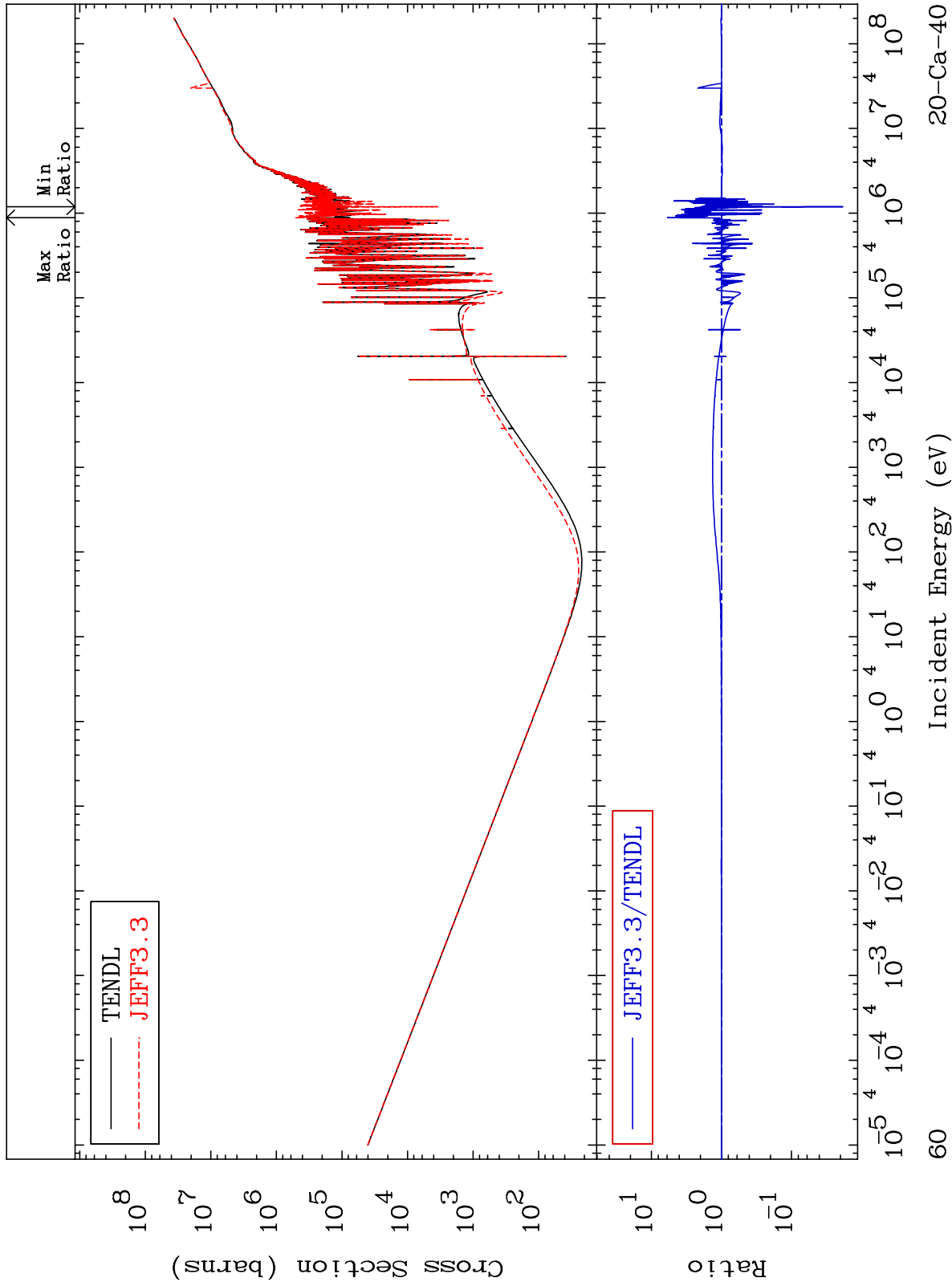
Incident Energy (eV)

20-Ca-40

MAT 2025

Total kinematic kerma (high limit)
Cross Section

20-Ca-40
-98.14 To 489.5 %



60

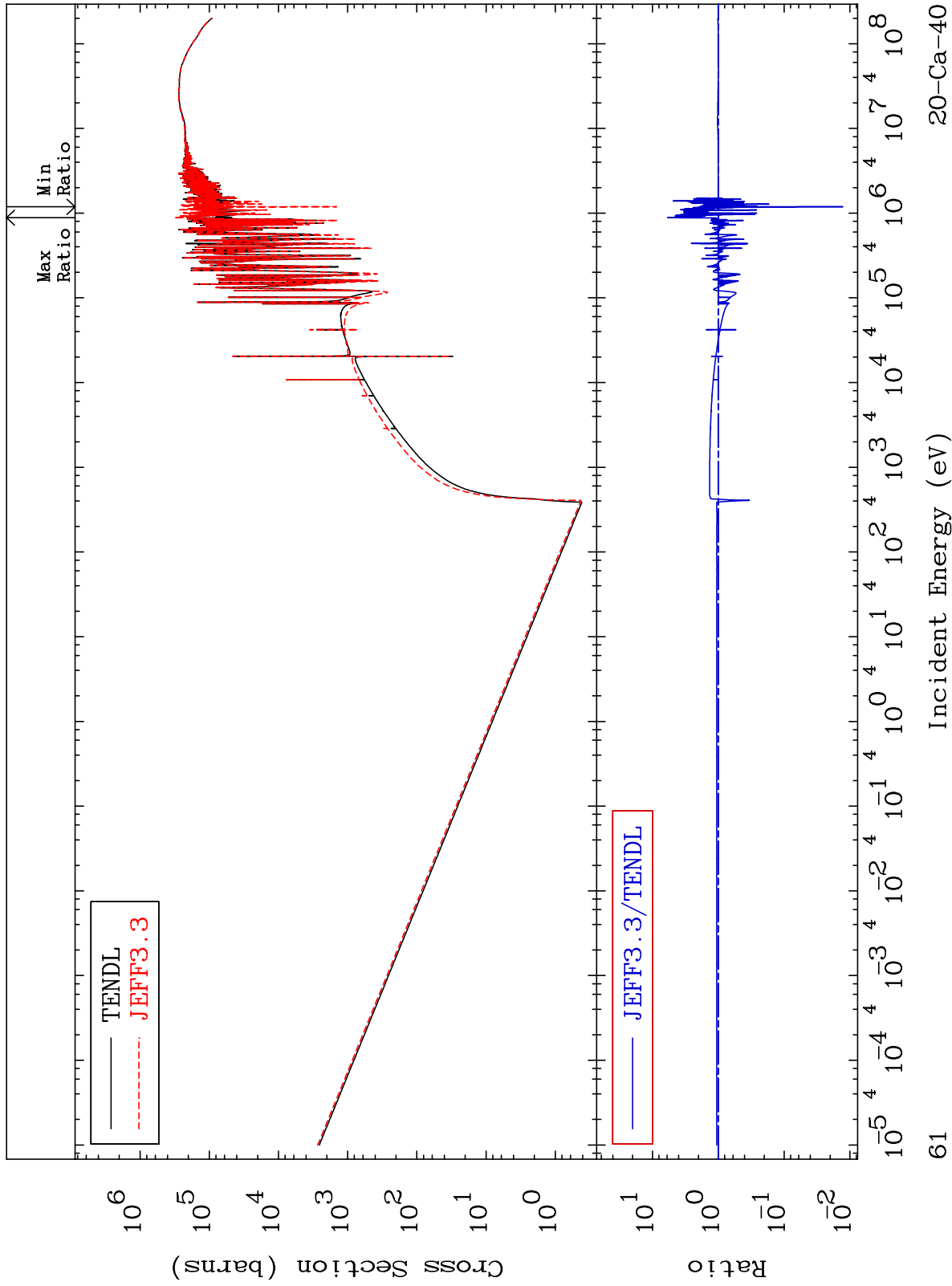
Incident Energy (eV)

20-Ca-40

MAT 2025

Dpa total (eV-barns)
Cross Section

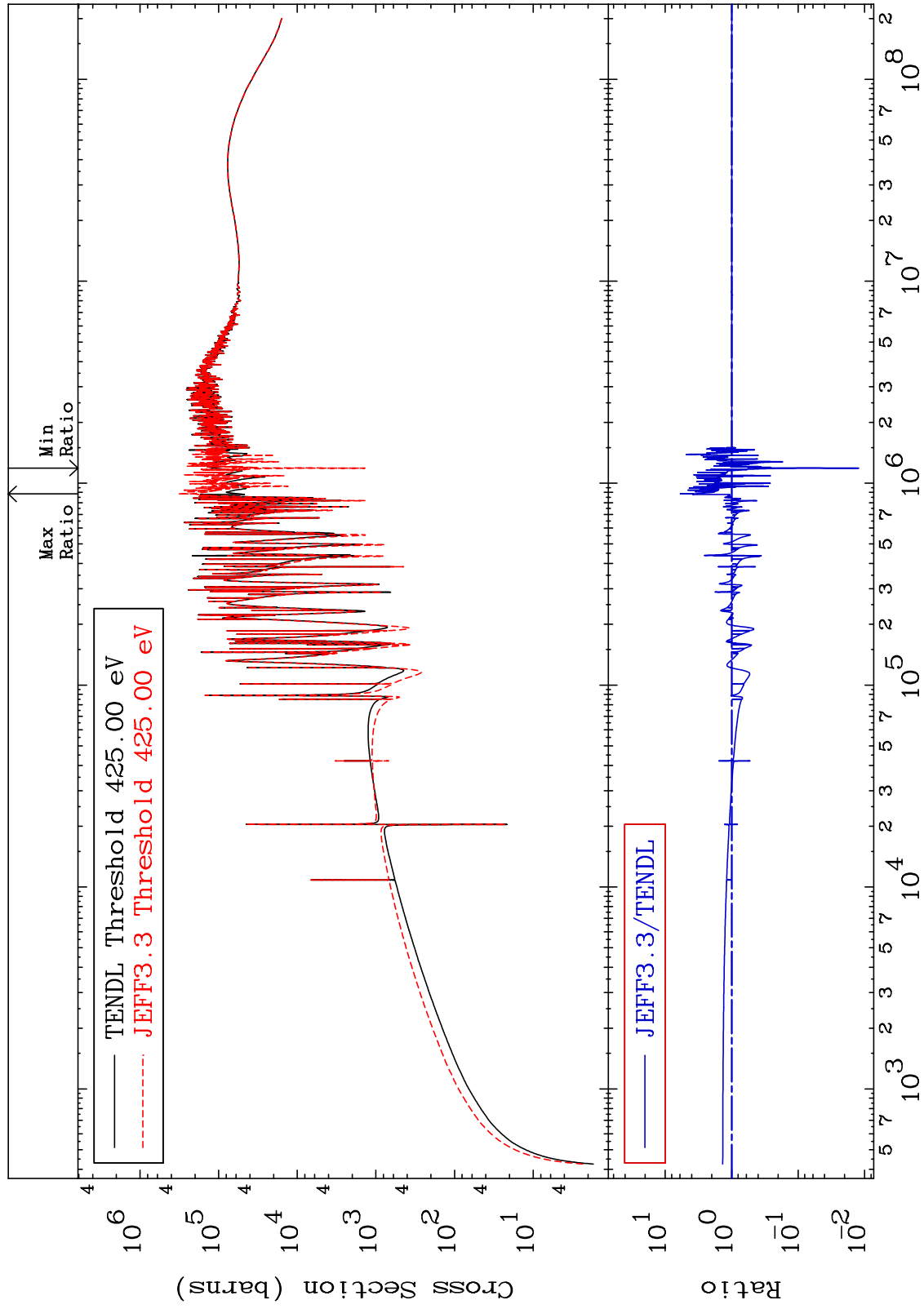
20-Ca-40
-98.71 To 489.8 %



MAT 2025

Dpa elastic (mt2)
Cross Section

20-Ca-40
-98.76 To 489.7 %



62

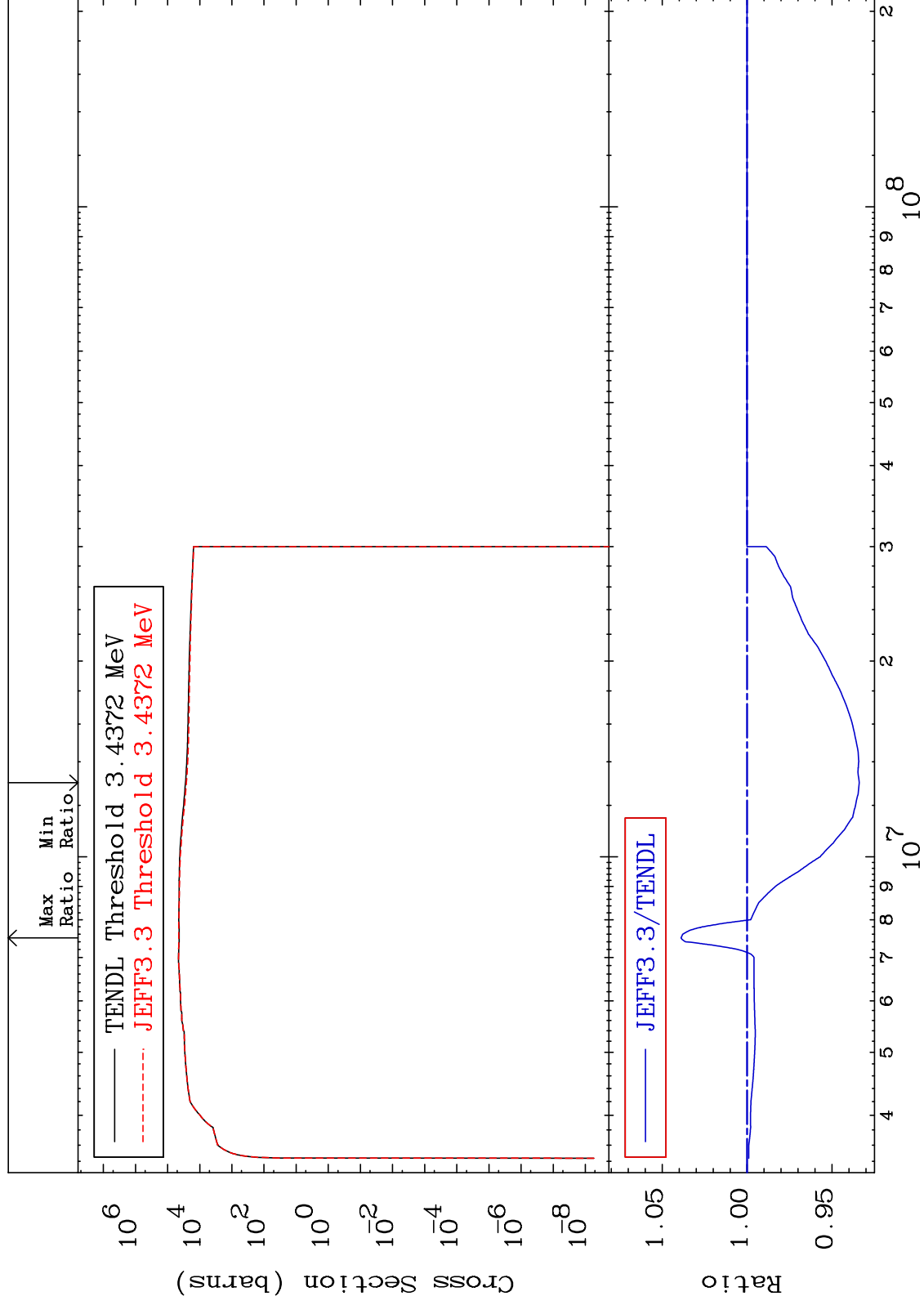
Incident Energy (eV)

20-Ca-40

MAT 2025

Dpa inelastic (mt51-91)
Cross Section

20-Ca-40
-6.601 To 3.888 %



63

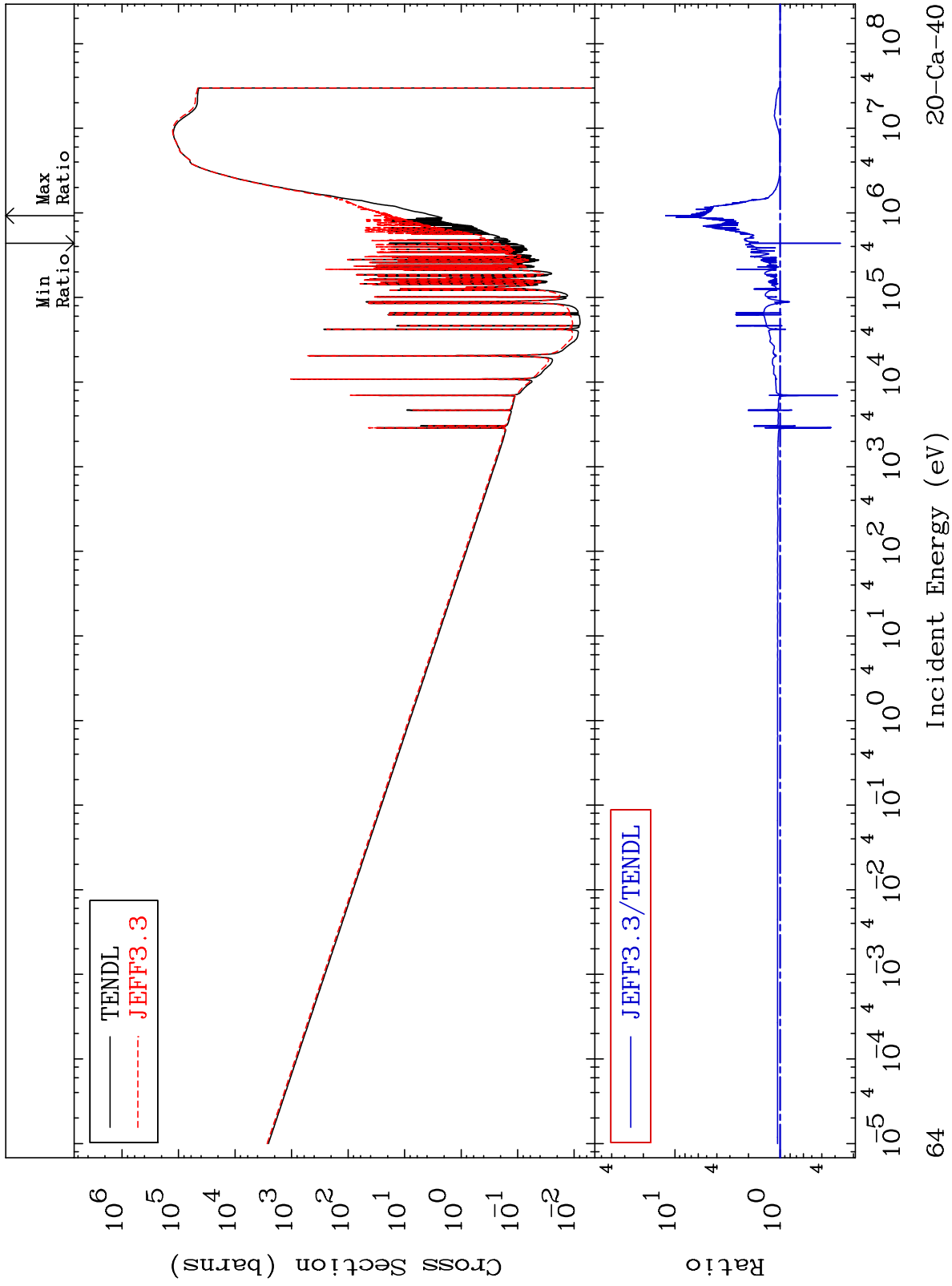
Incident Energy (eV)

20-Ca-40

MAT 2025

Dpa disappearance (mt102 -120)
Cross Section

20-Ca-40
-73.37 To 1126. %

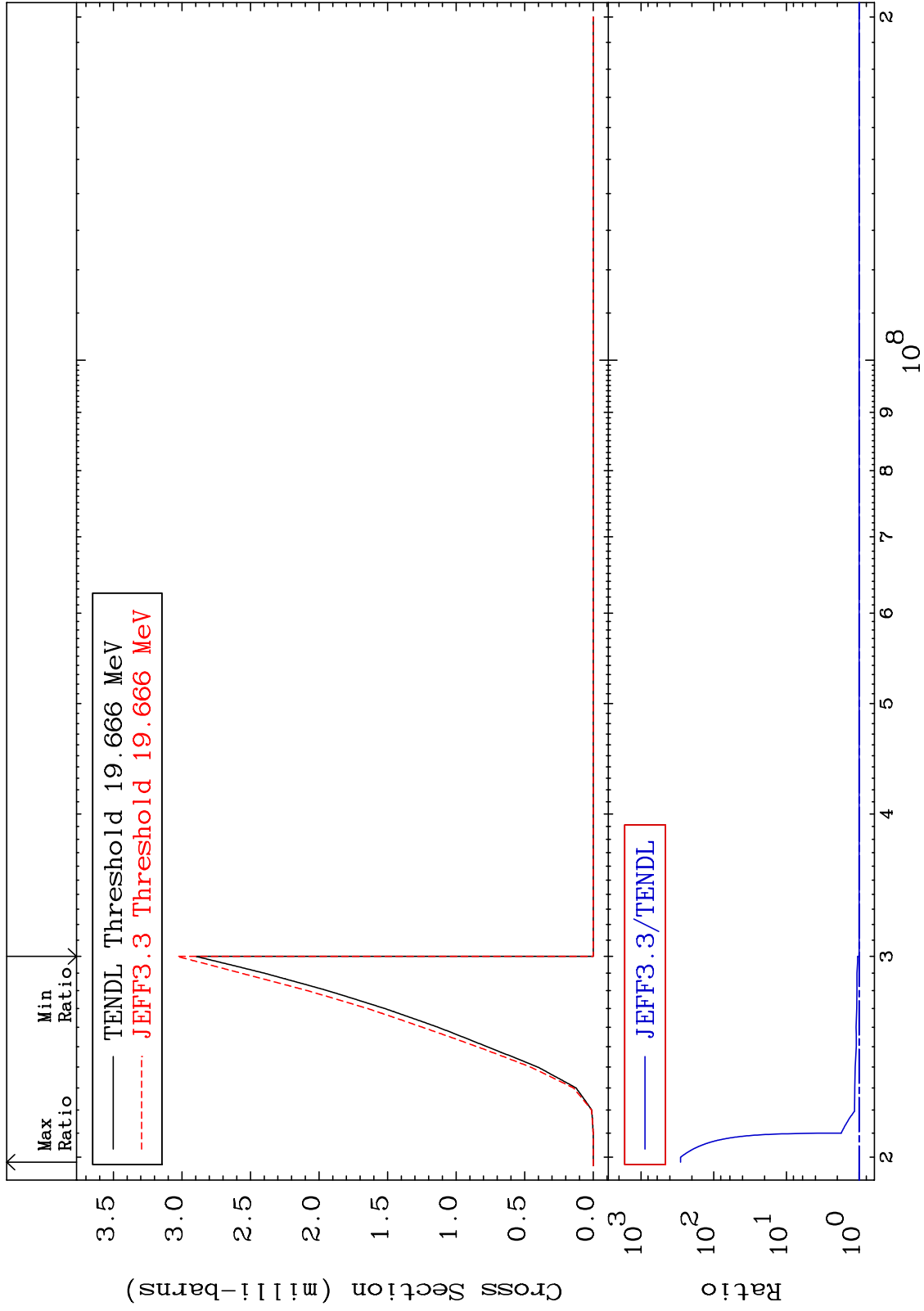


MAT 2025

(n, n') d: 19-K -38g

20-Ca-40

Radionuclide Production Cross Section 0.000 To 9999. %

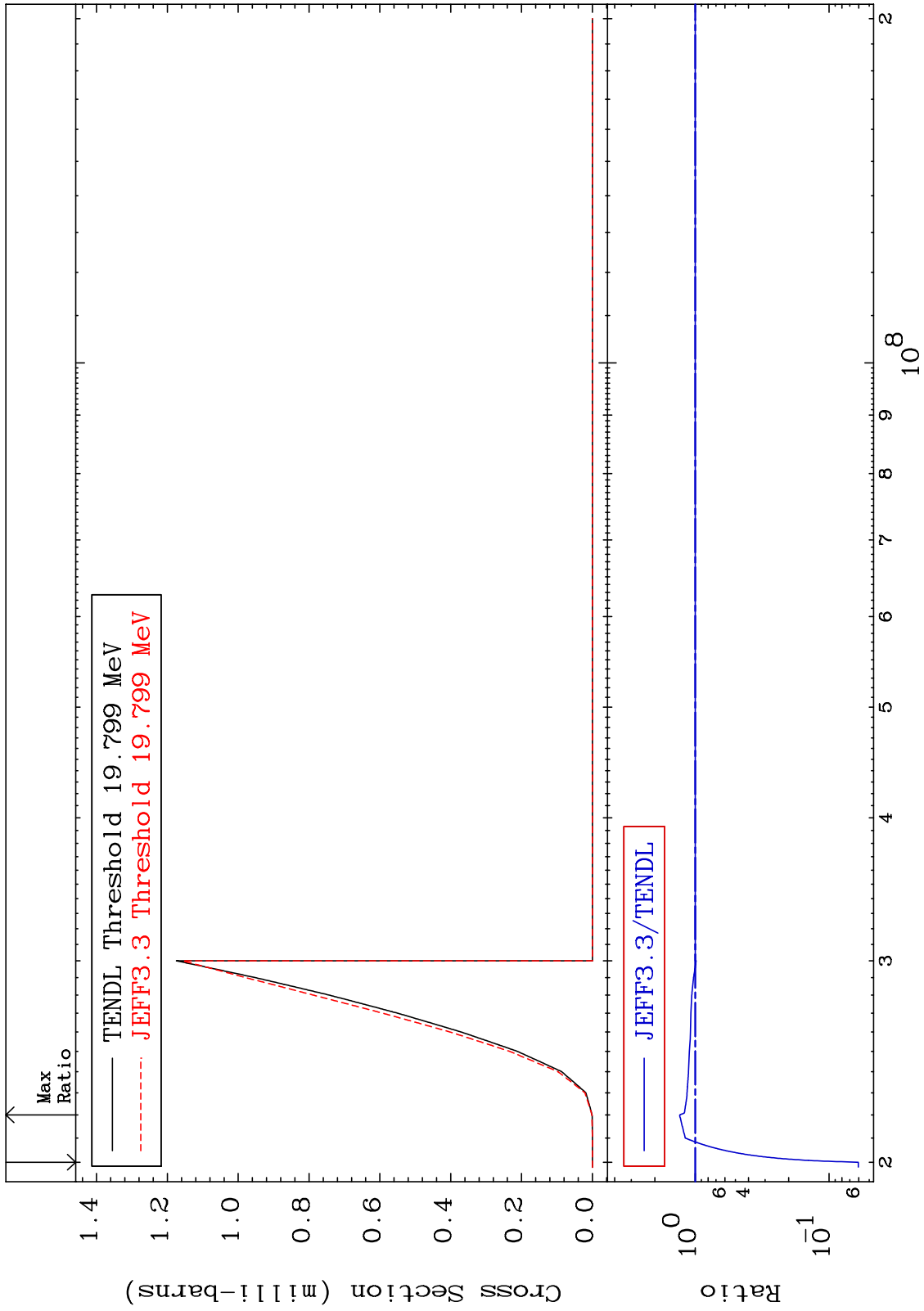


65

Incident Energy (eV)

20-Ca-40

Radionuclide Production Cross Section -93.96 To 30.31 %

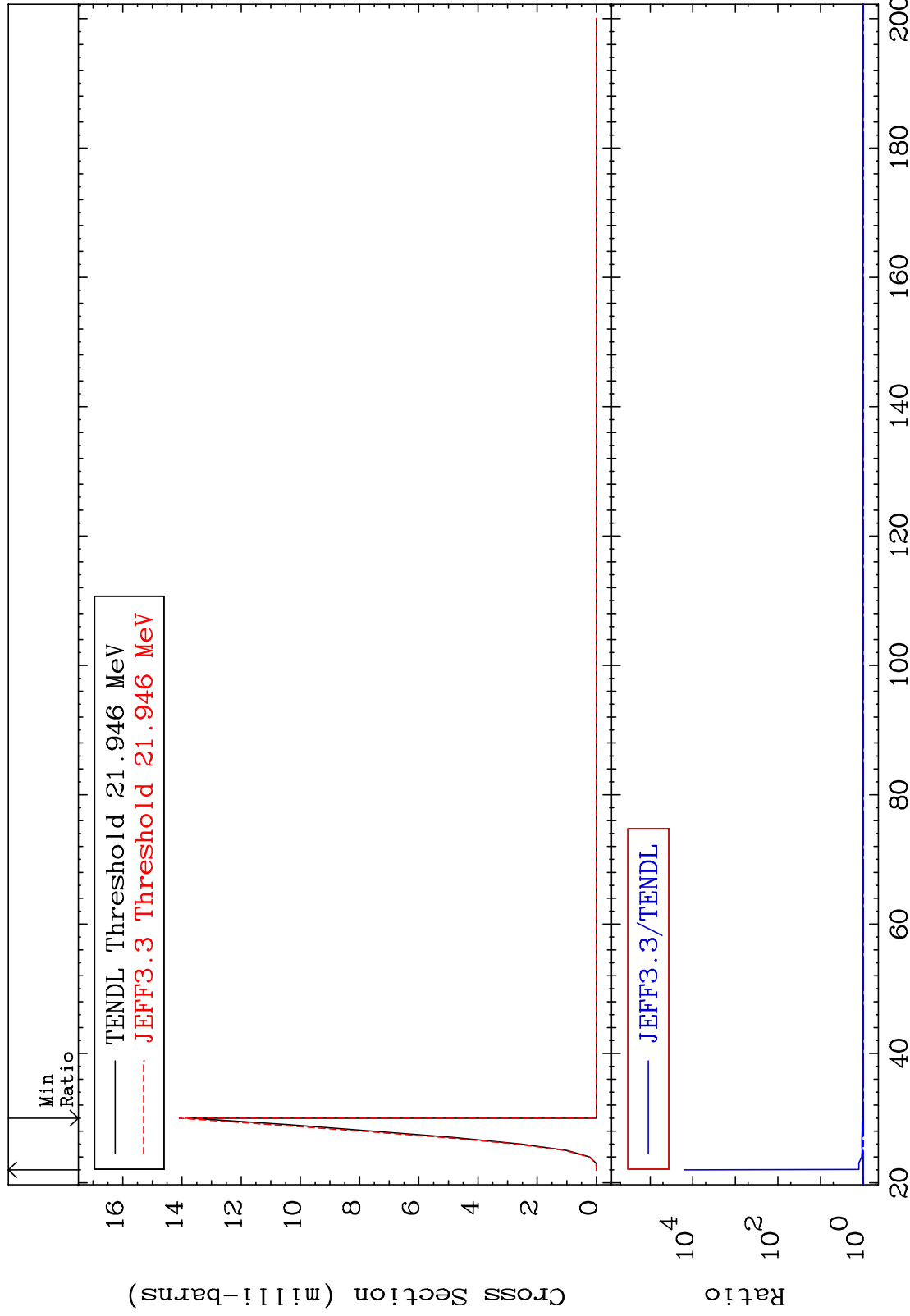


MAT 2025

(n,2n) p:19-K -38g

20-Ca-40

Radionuclide Production Cross Section 0.000 To 9999. %



67

Incident Energy (MeV)

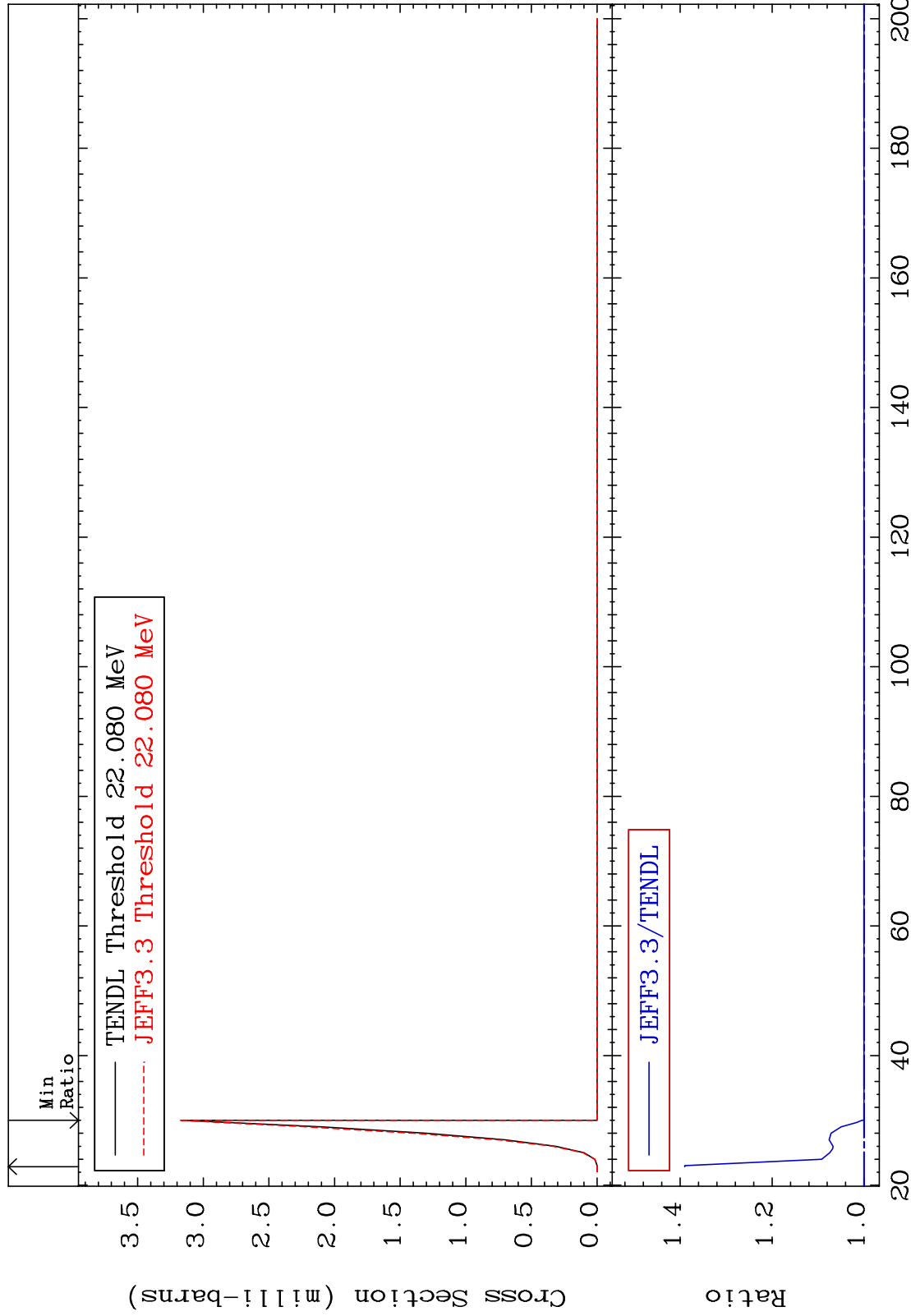
20-Ca-40

MAT 2025

(n,2n) p:19-K -38m1

20-Ca-40

Radionuclide Production Cross Section 0.000 To 38.99 %



68

Incident Energy (MeV)

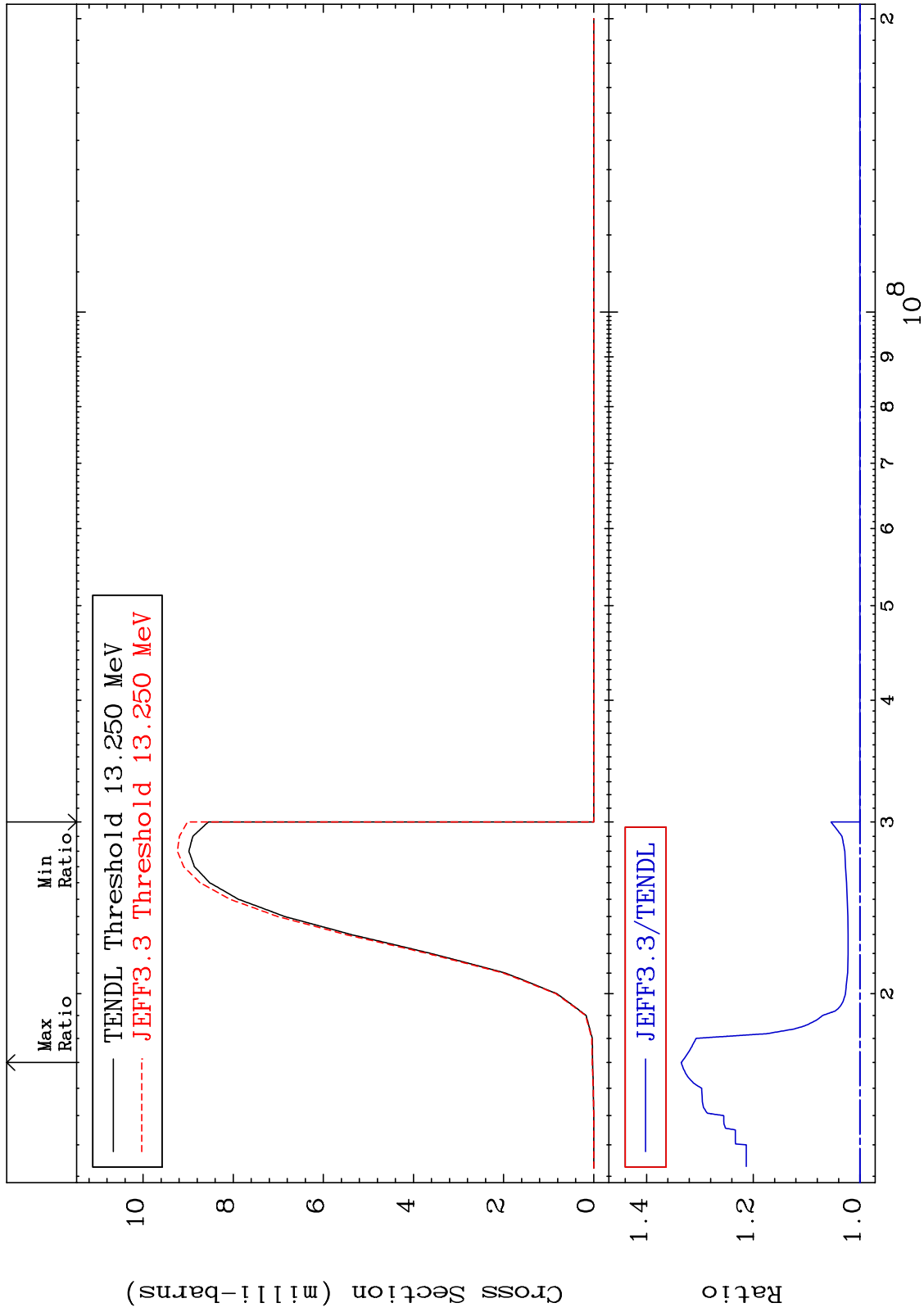
20-Ca-40

MAT 2025

(n, t) : 19-K -38g

20-Ca-40

Radionuclide Production Cross Section 0.000 To 33.50 %

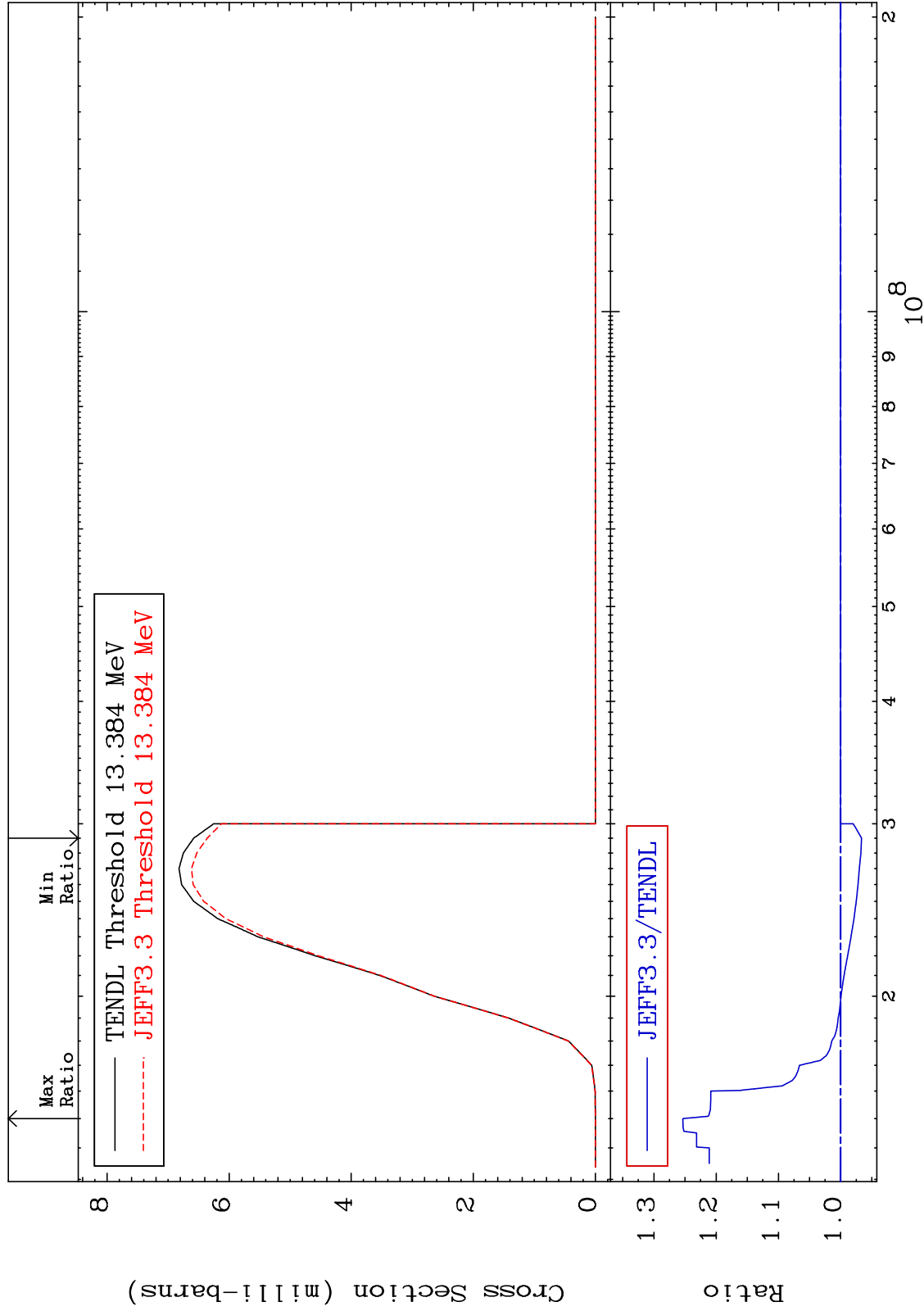


MAT 2025

(n, t): 19-K -38m1

20-Ca-40

Radionuclide Production Cross Section -3.359 To 25.35 %



70

Incident Energy (eV)

20-Ca-40