

Program Complot
(Version 2018-1)

by

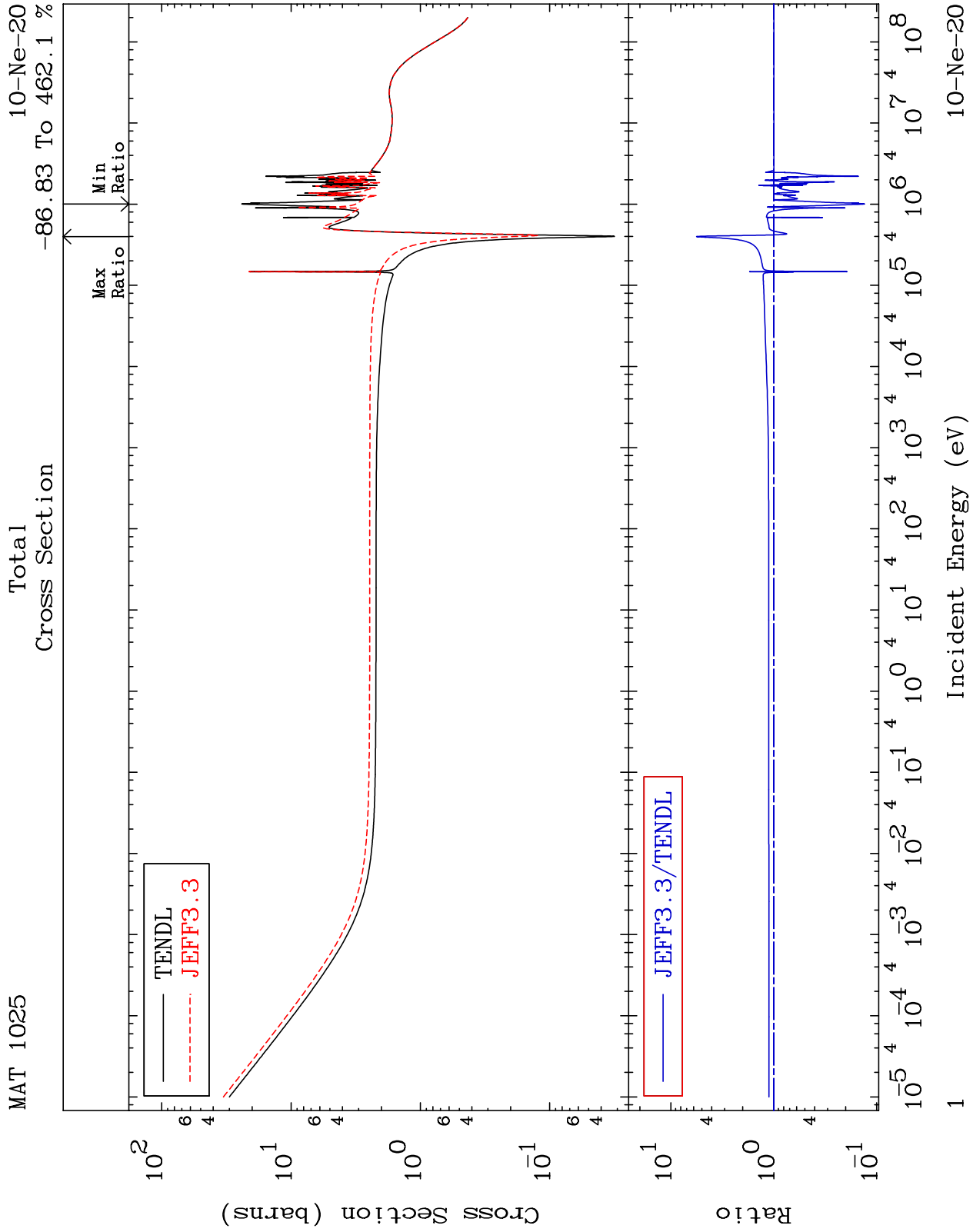
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(Present Contact Information)

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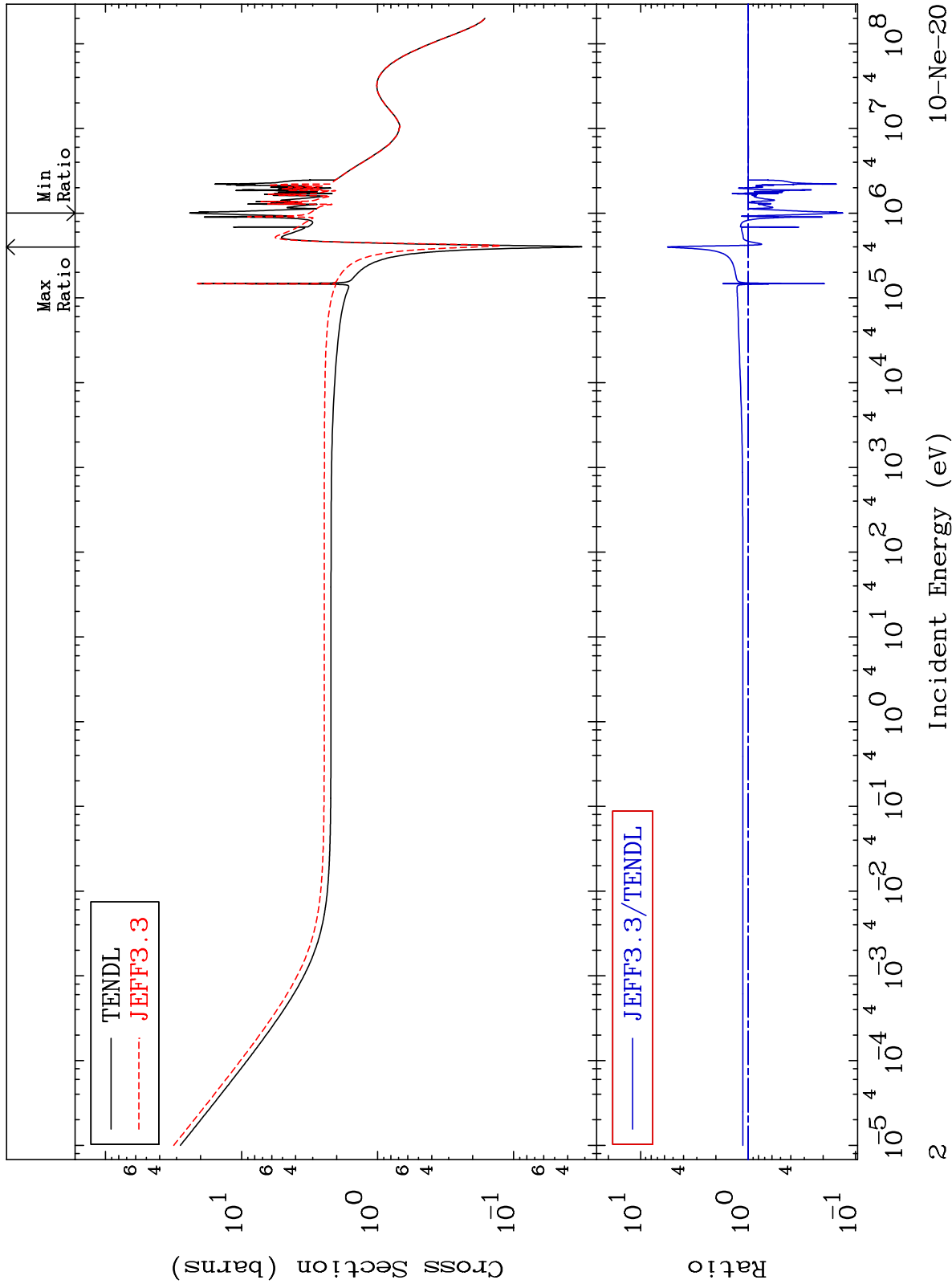
Press Mouse Button to Start



MAT 1025

Elastic
Cross Section

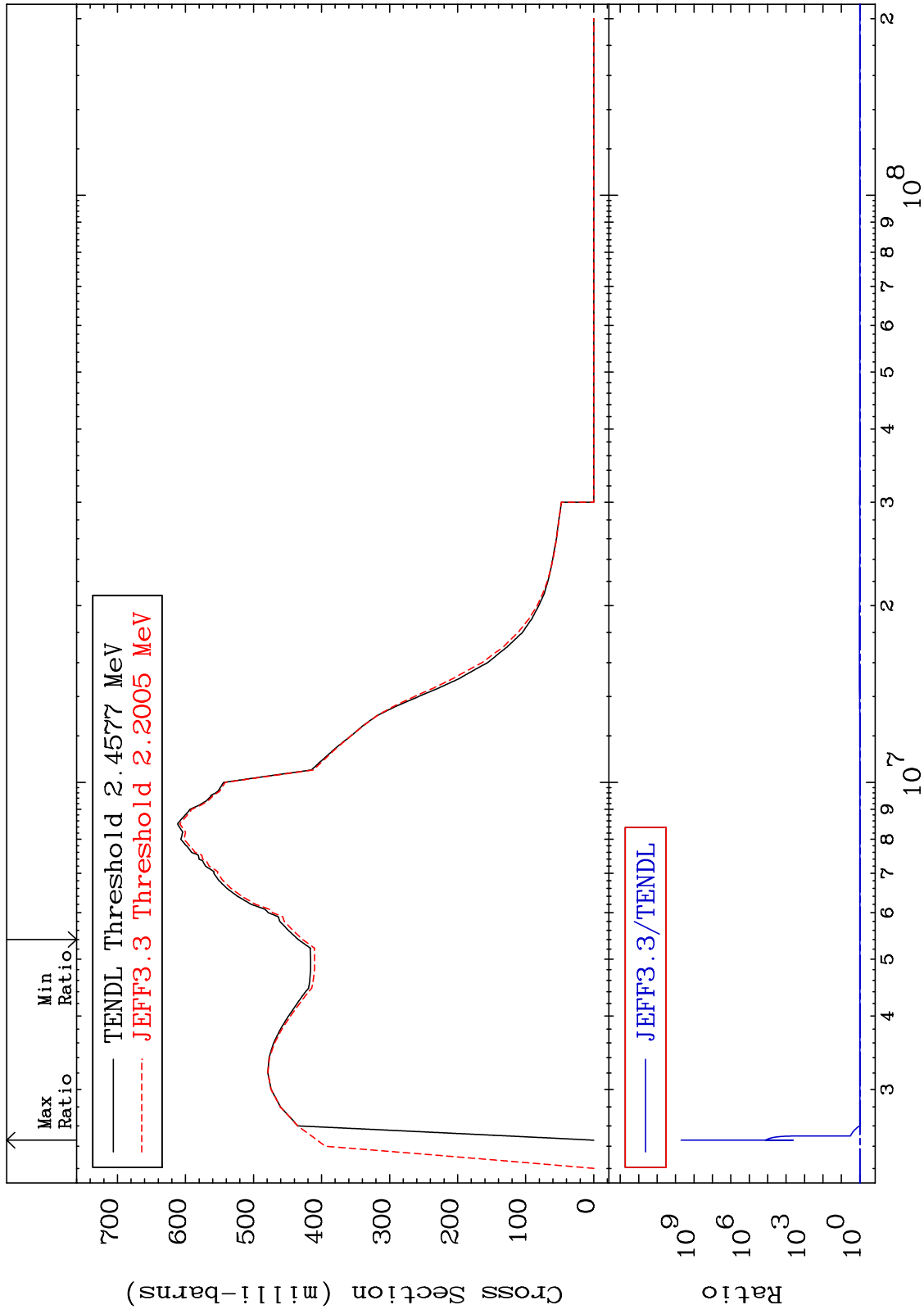
10-Ne-20
-86.83 To 462.4 %

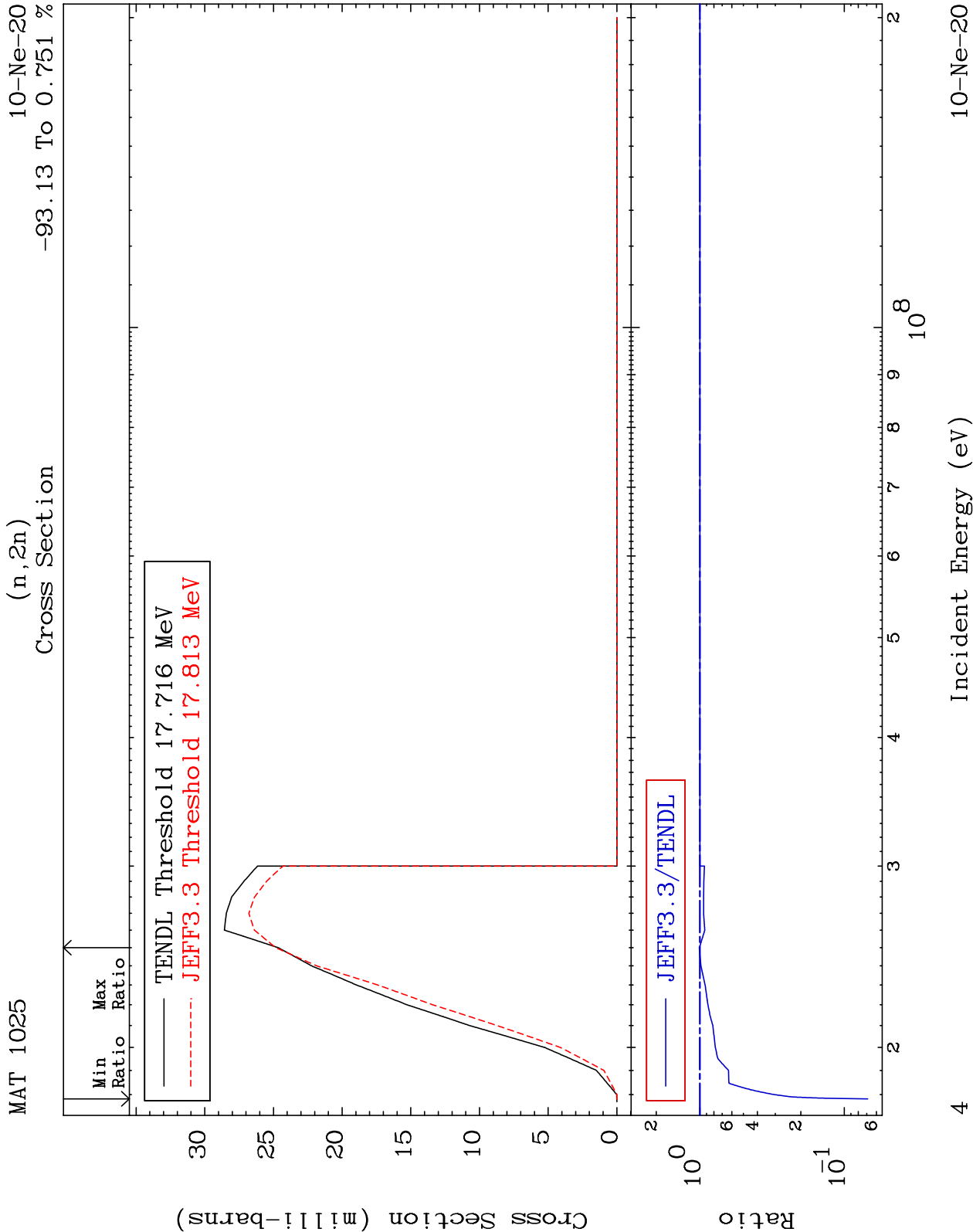


MAT 1025

Inelastic
Cross Section

10-Ne-20
-1.491 To 9999. %





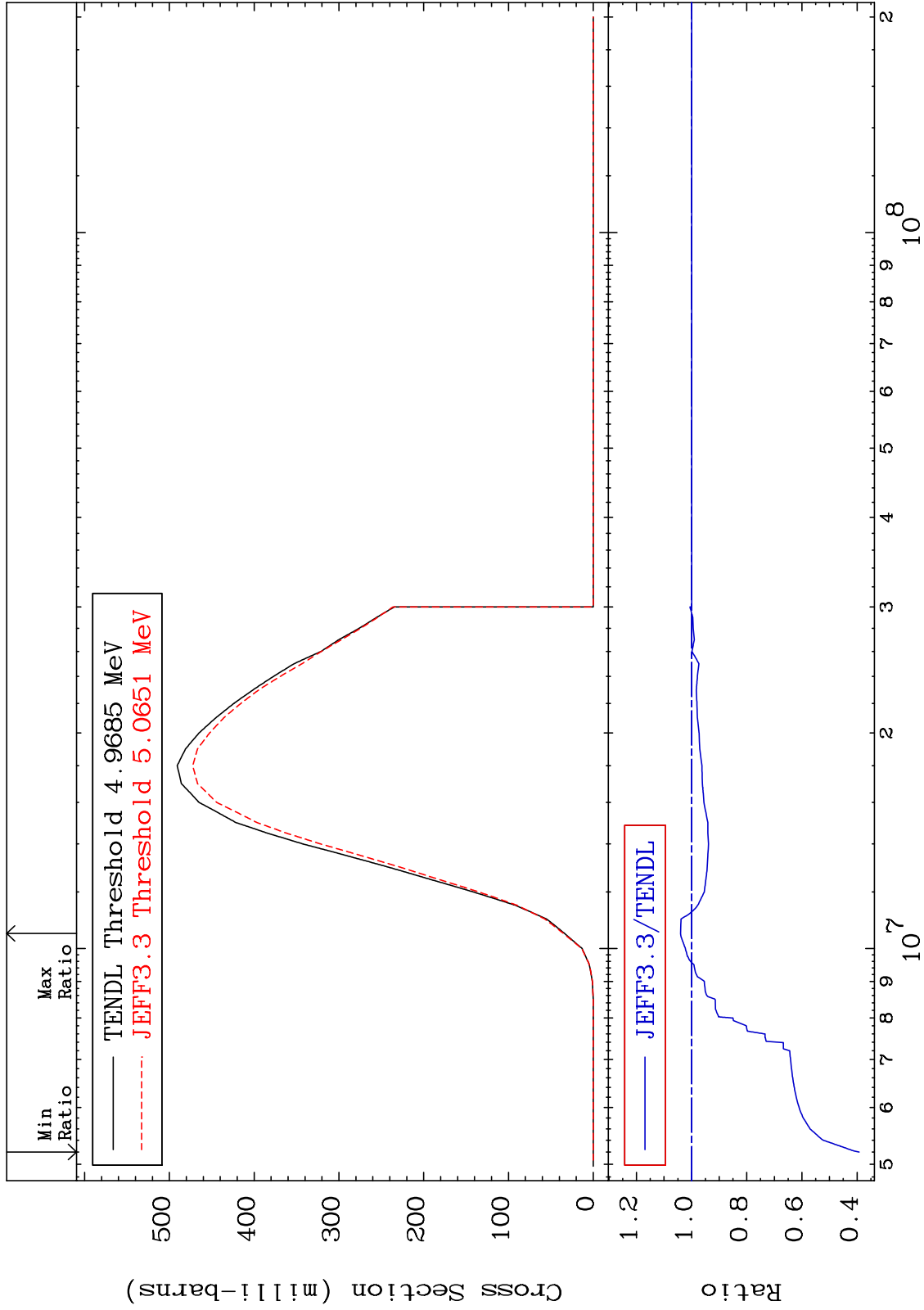
MAT 1025

(n,n') α

10-Ne-20

Cross Section

-60.77 To 3.989 %



5

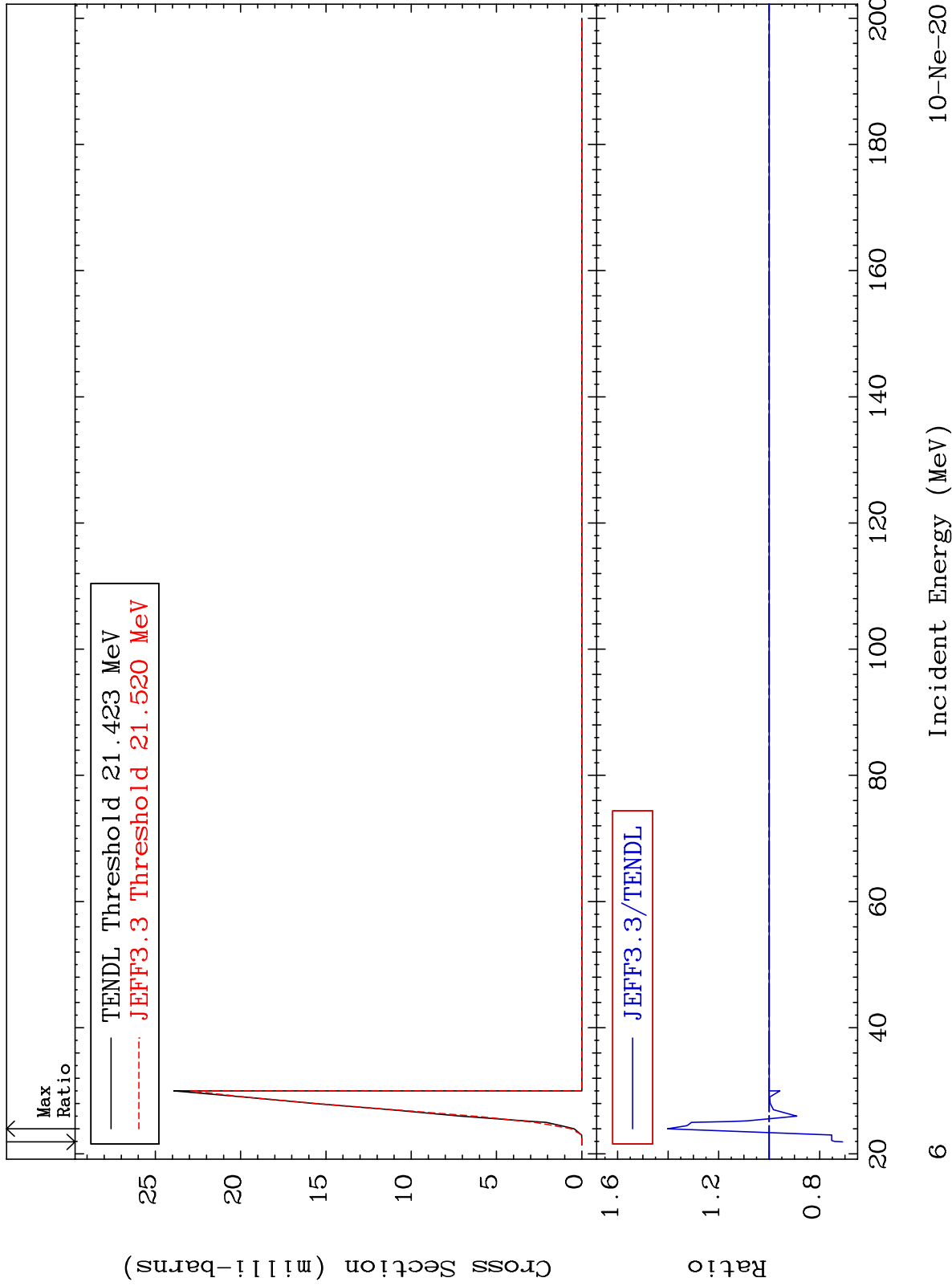
Incident Energy (eV)

10-Ne-20

MAT 1025

(n,2n) α
Cross Section

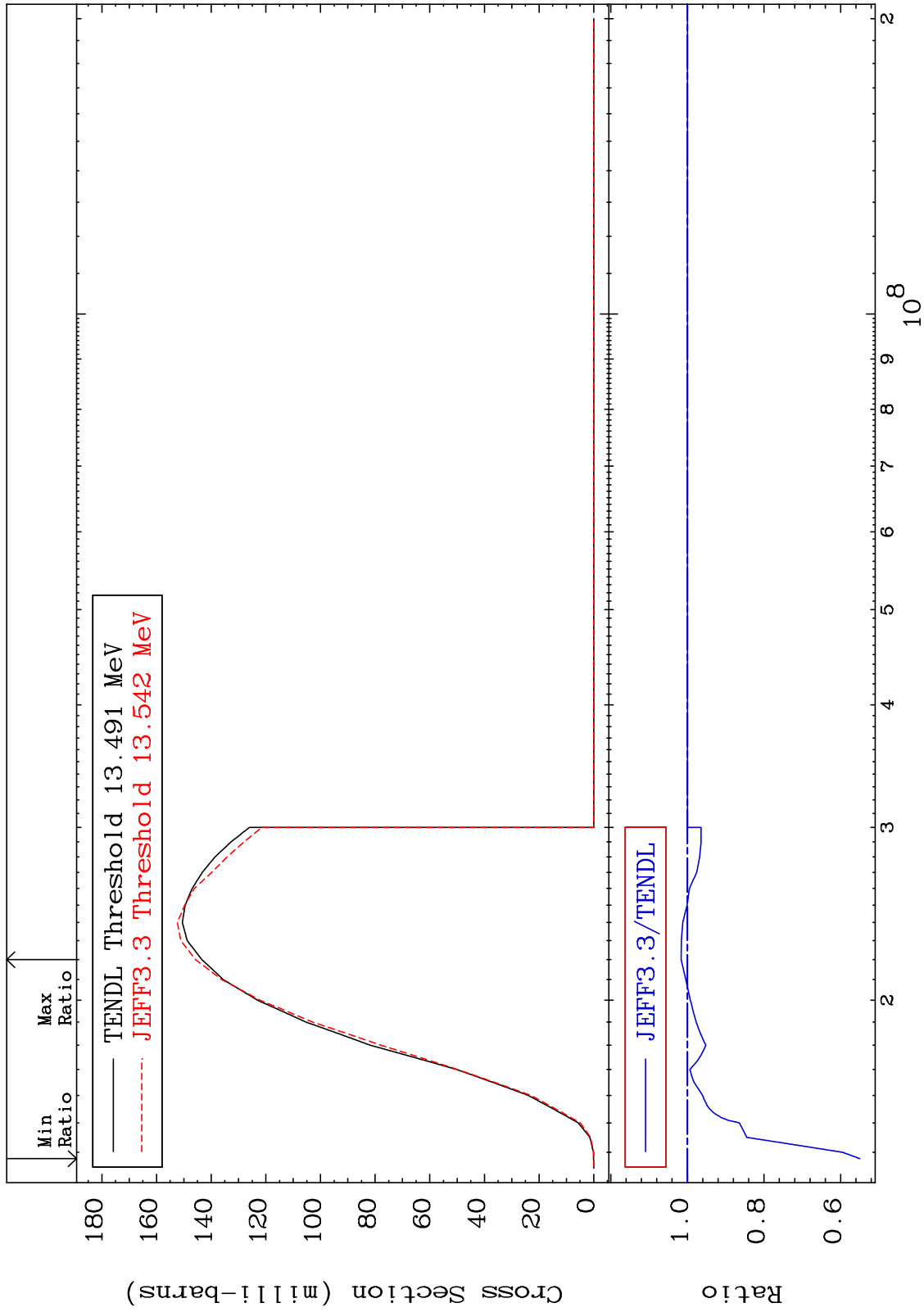
10-Ne-20
-29.08 To 40.23 %



MAT 1025

(n,n') p
Cross Section

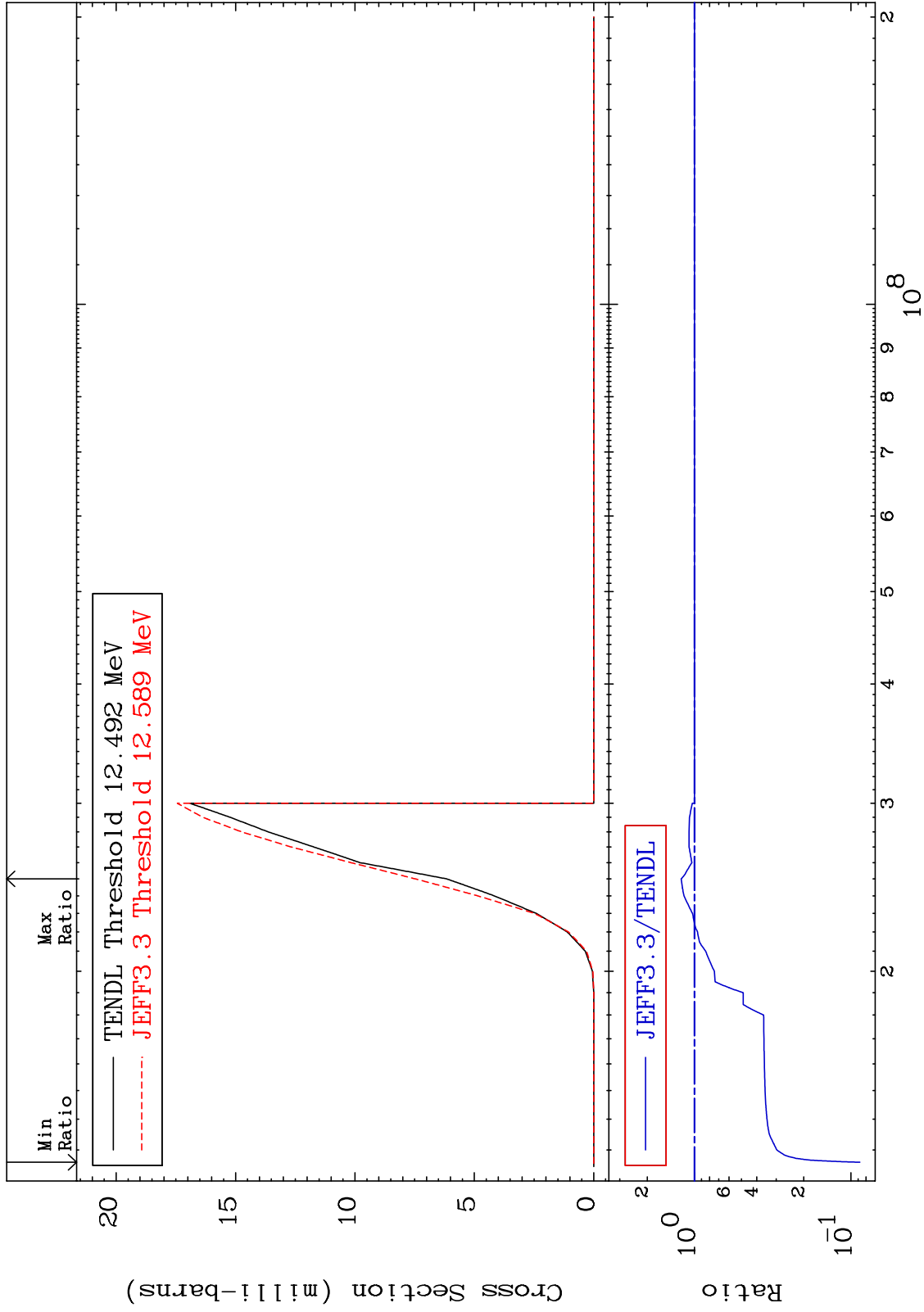
10-Ne-20
-45.03 To 1.613 %



MAT 1025

(n, n') 2α
Cross Section

10-Ne-20
-91.24 To 21.35 %



8

Incident Energy (eV)

10-Ne-20

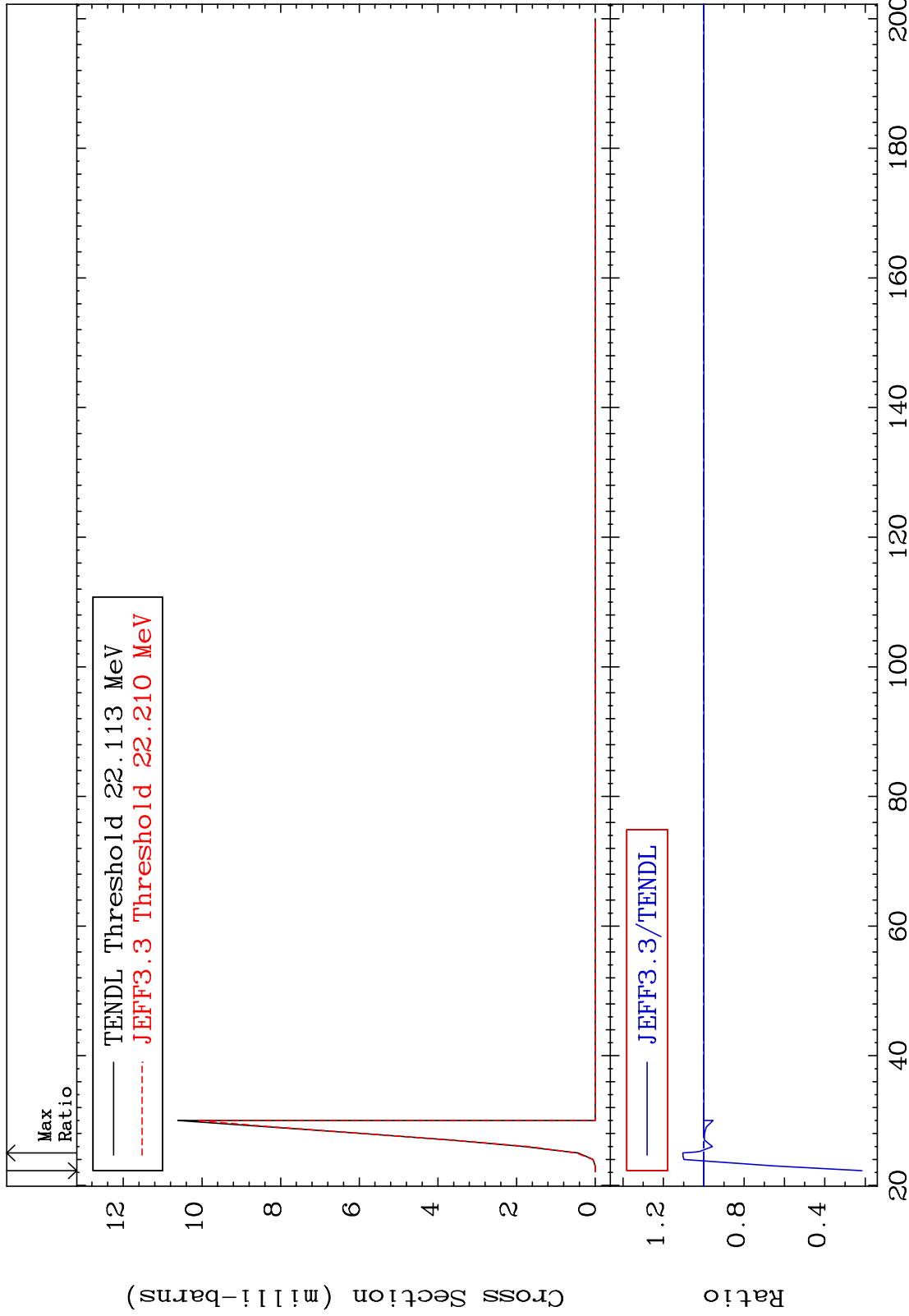
MAT 1025

(n,n') d

10-Ne-20

Cross Section

-78.42 To 10.35 %



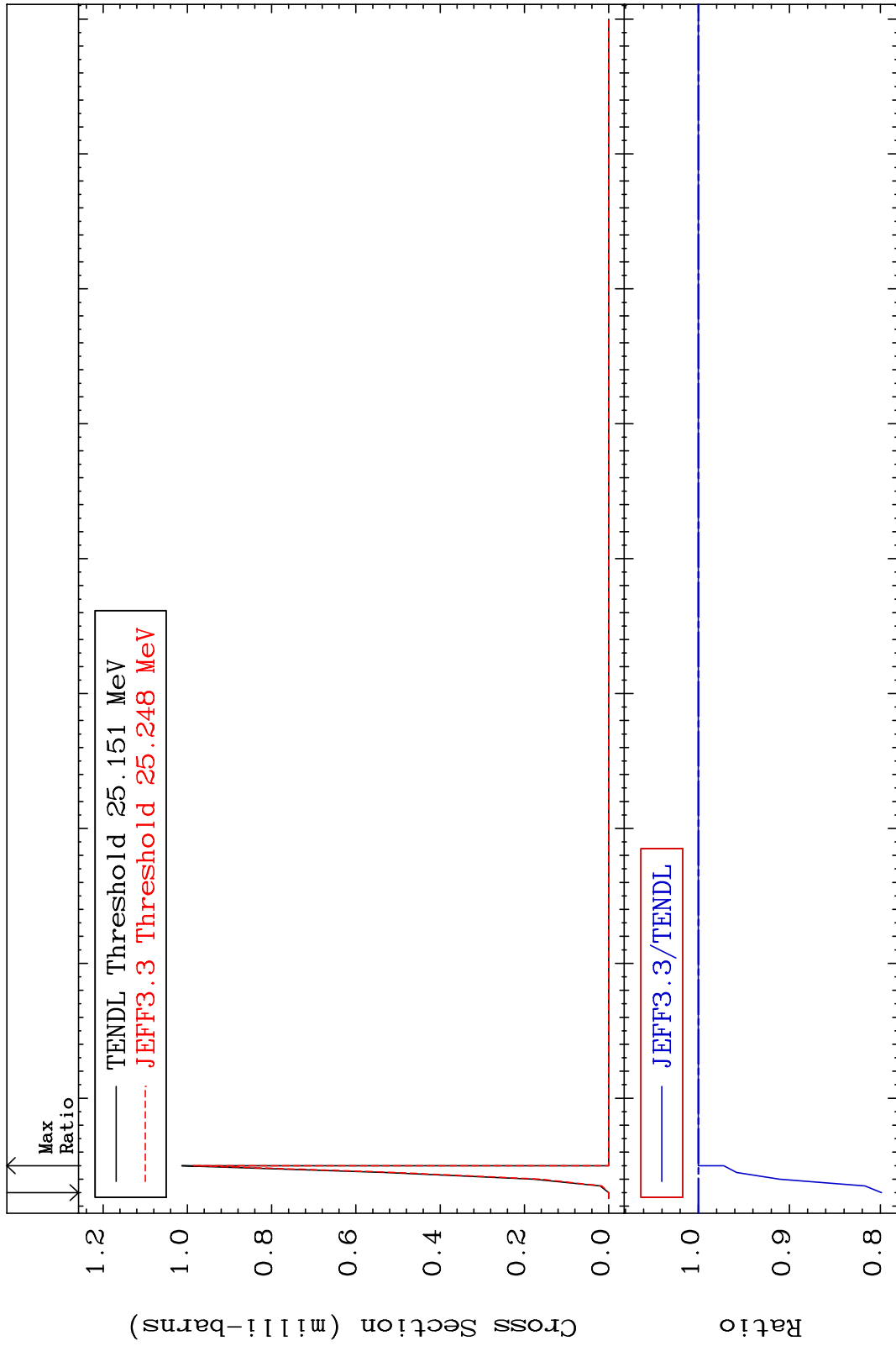
MAT 1025

(n,n') t

10-Ne-20

Cross Section

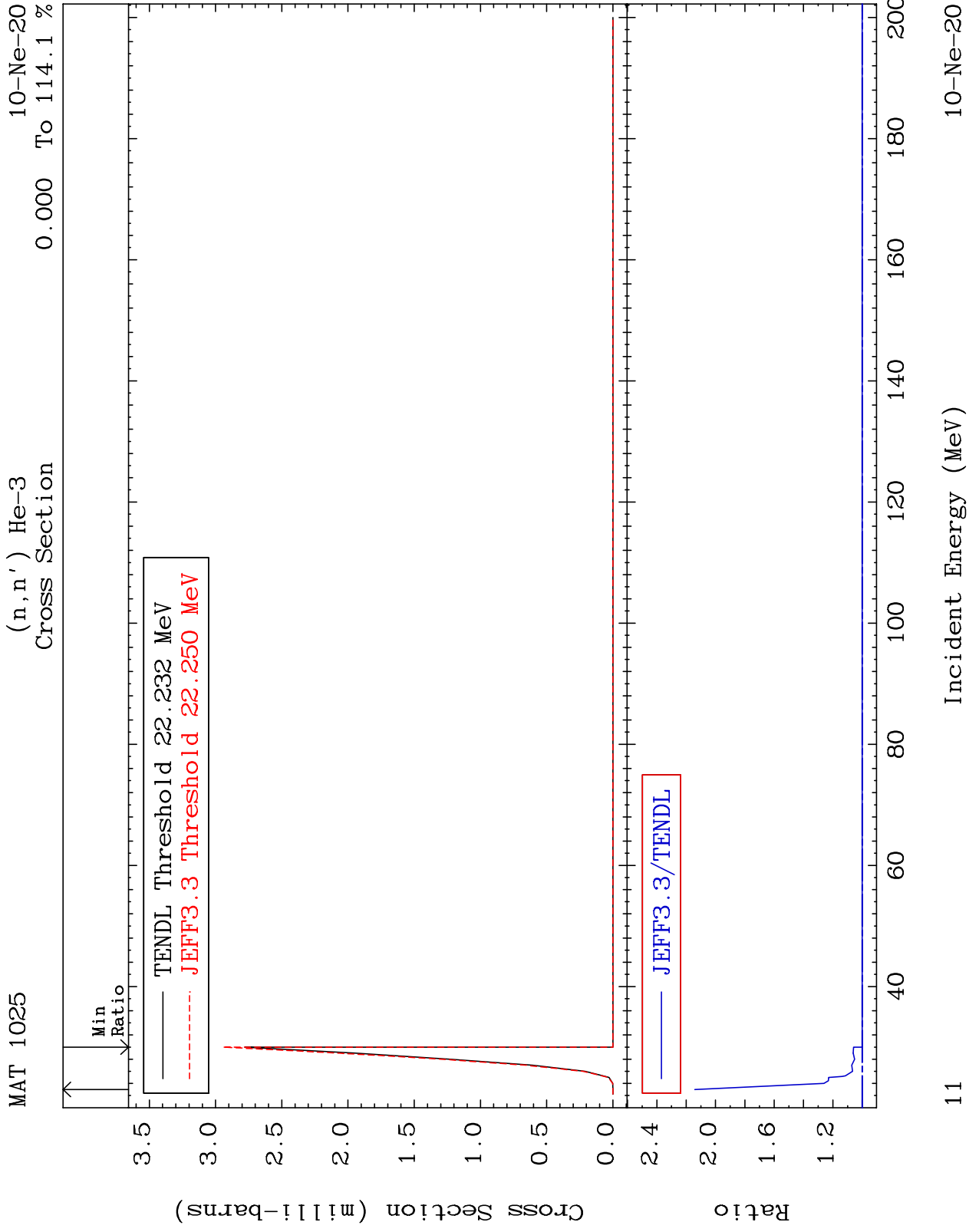
-20.12 To 0.000 %



10

Incident Energy (MeV)

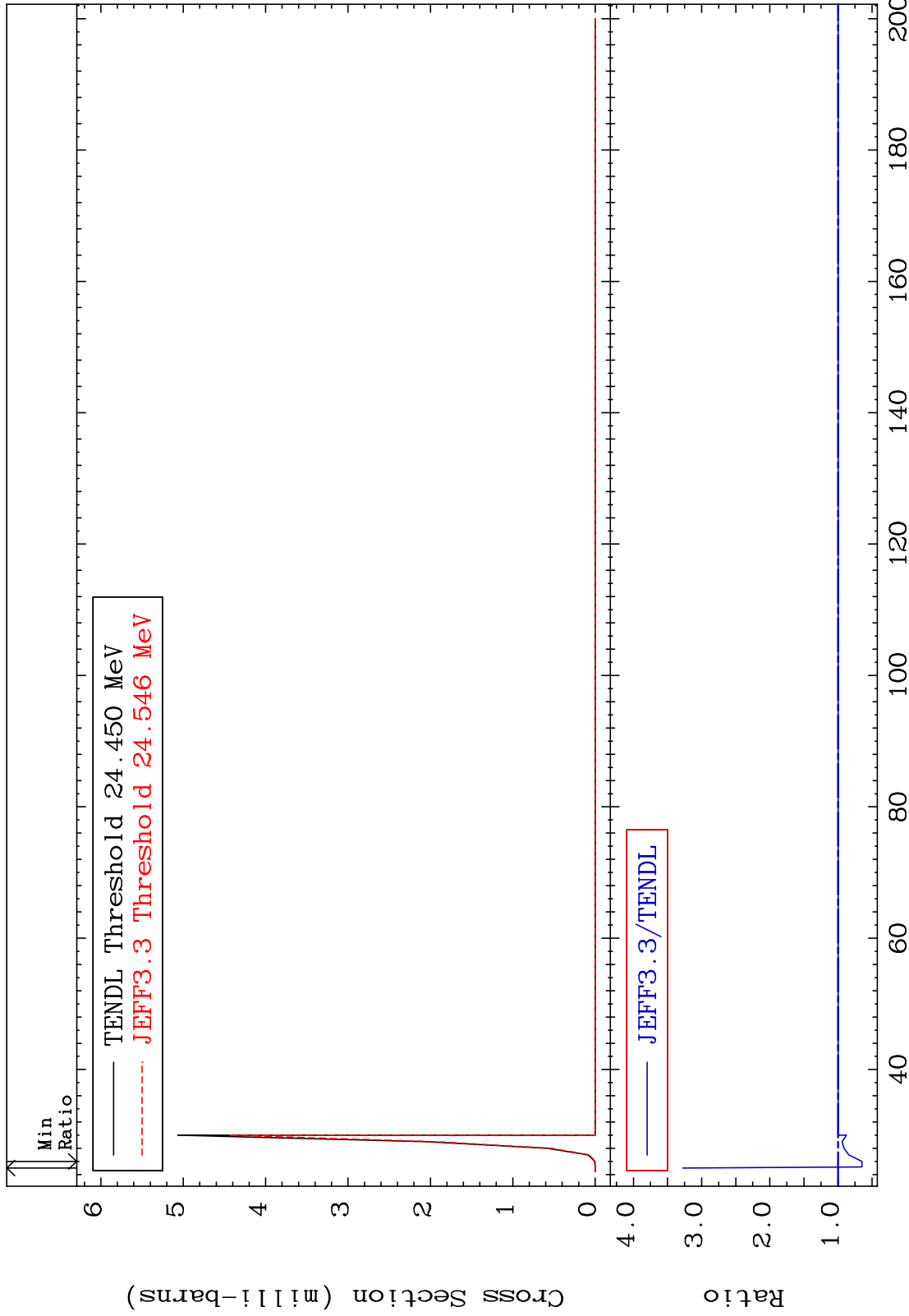
10-Ne-20



MAT 1025

(n,2n) p
Cross Section

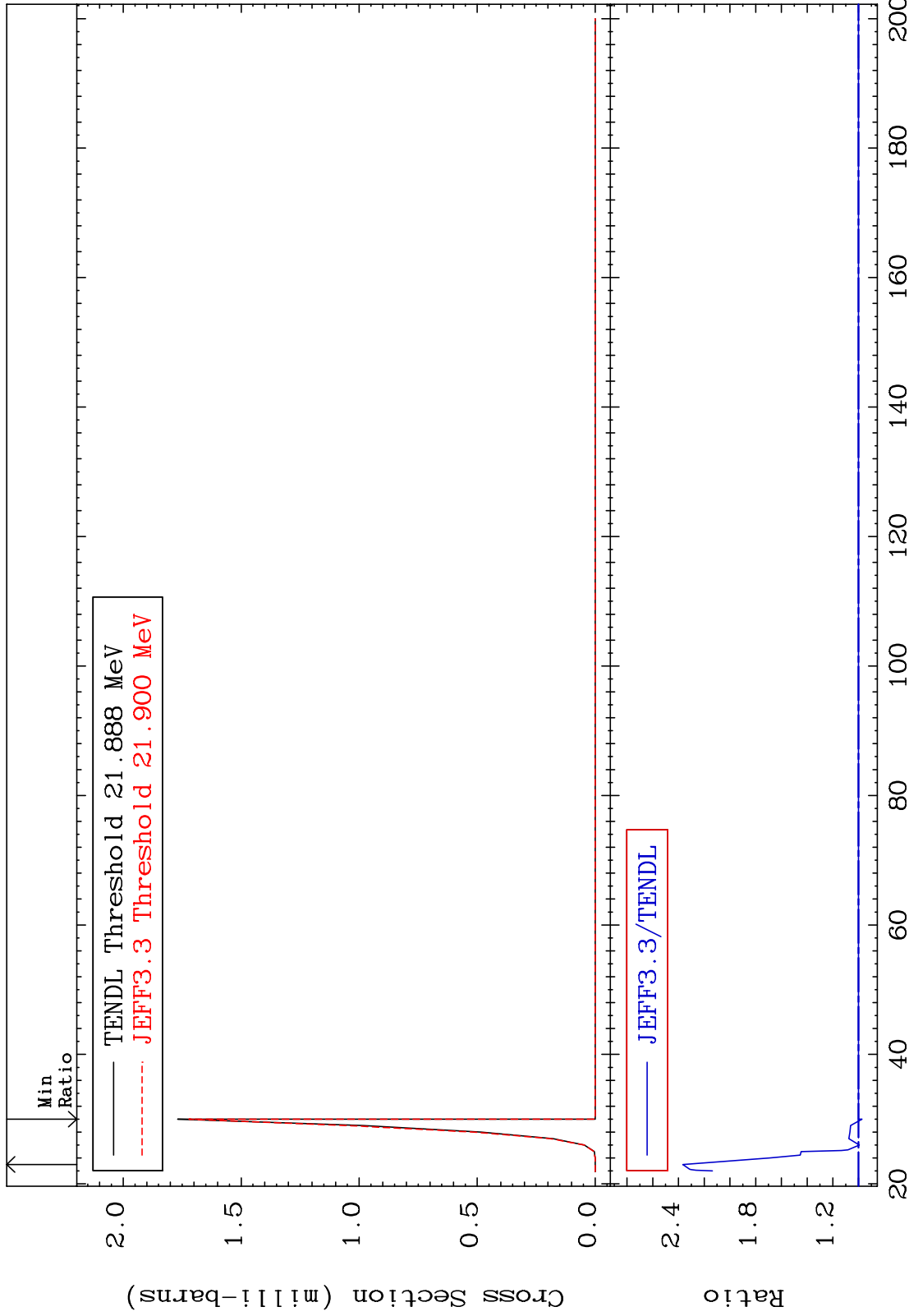
10-Ne-20
-35.24 To 227.5 %



MAT 1025

(n,2n) p
Cross Section

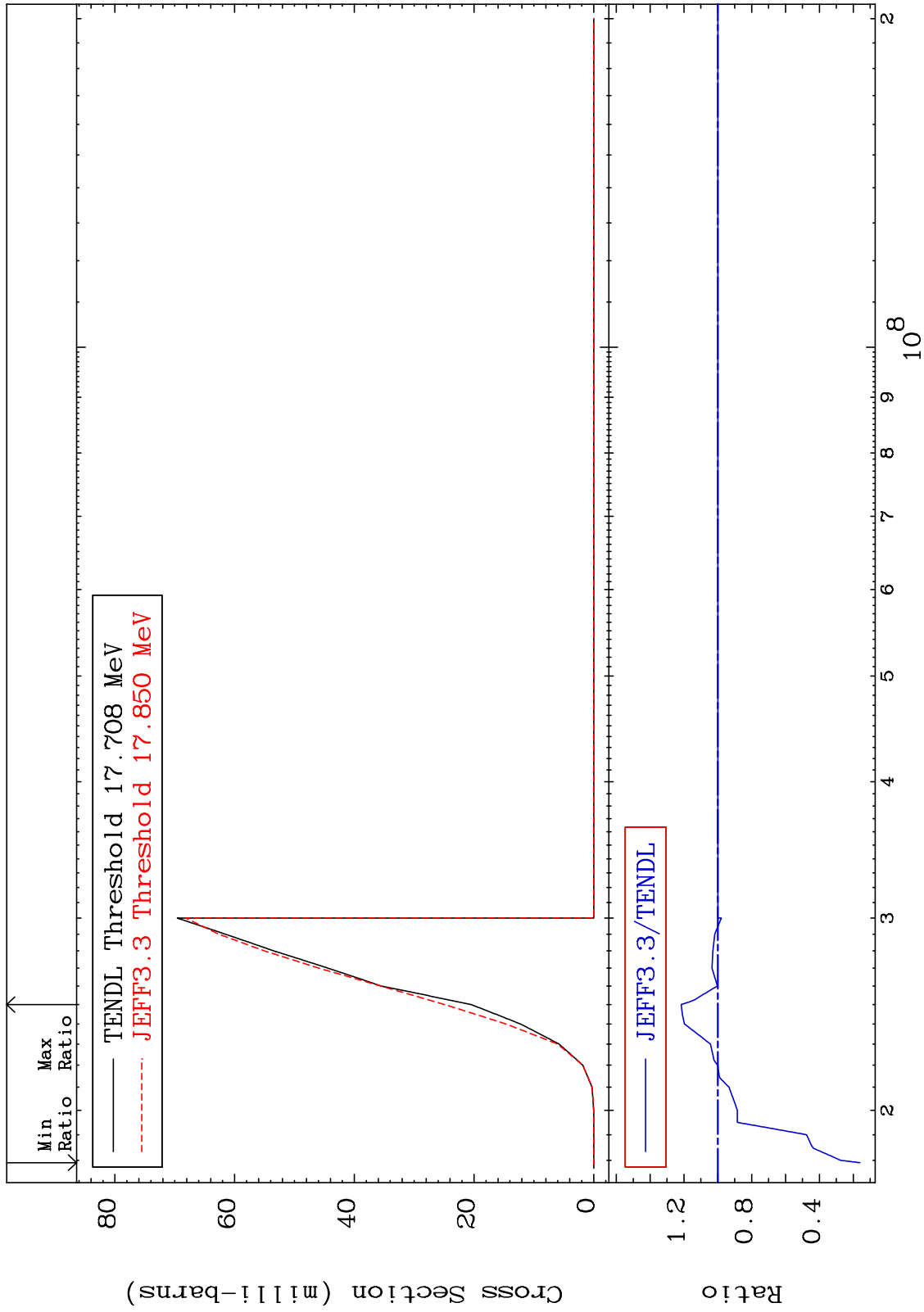
10-Ne-20
-2.688 To 136.6 %



MAT 1025

(n,n') p α
Cross Section

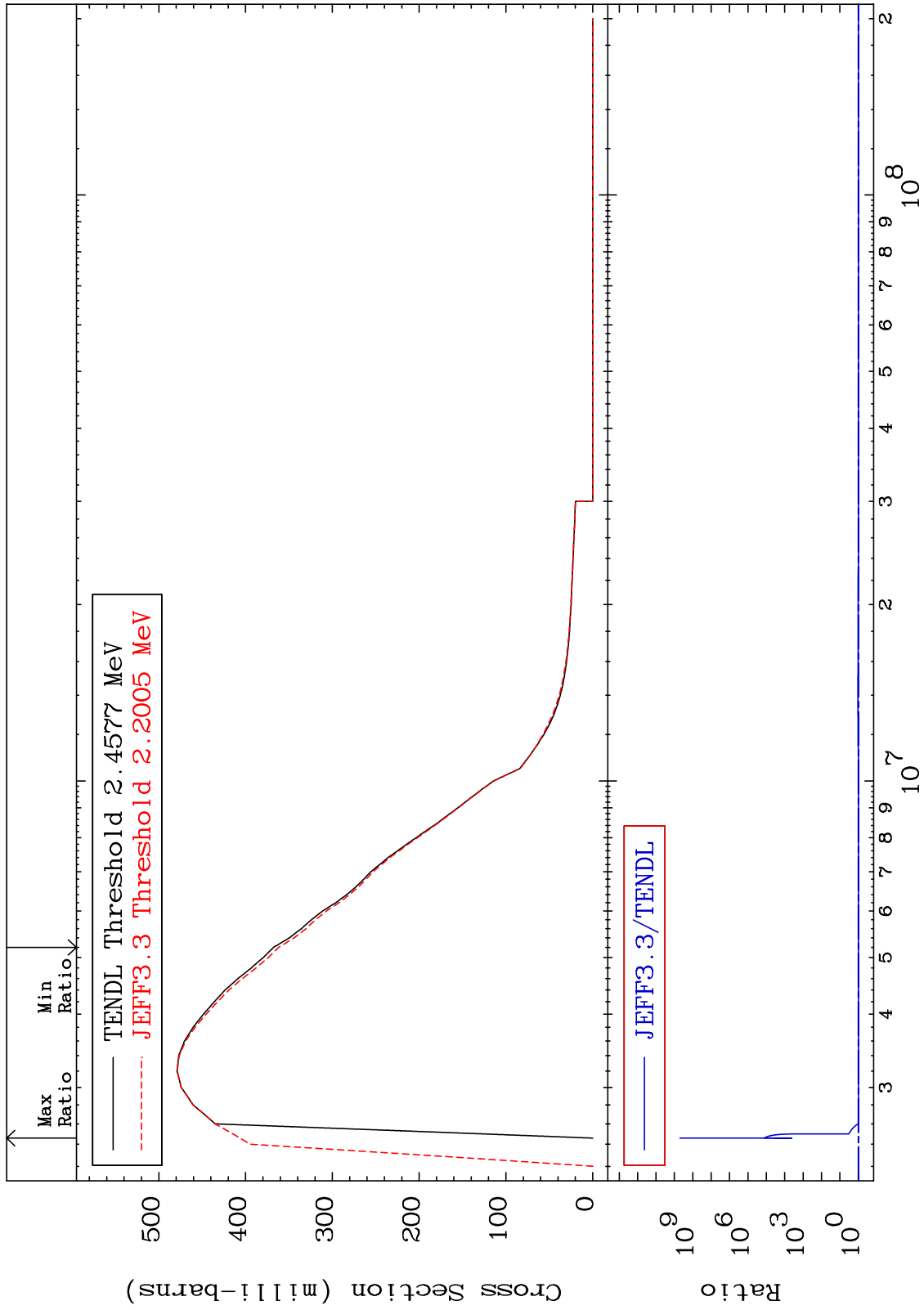
10-Ne-20
-83.96 To 21.63 %



MAT 1025

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

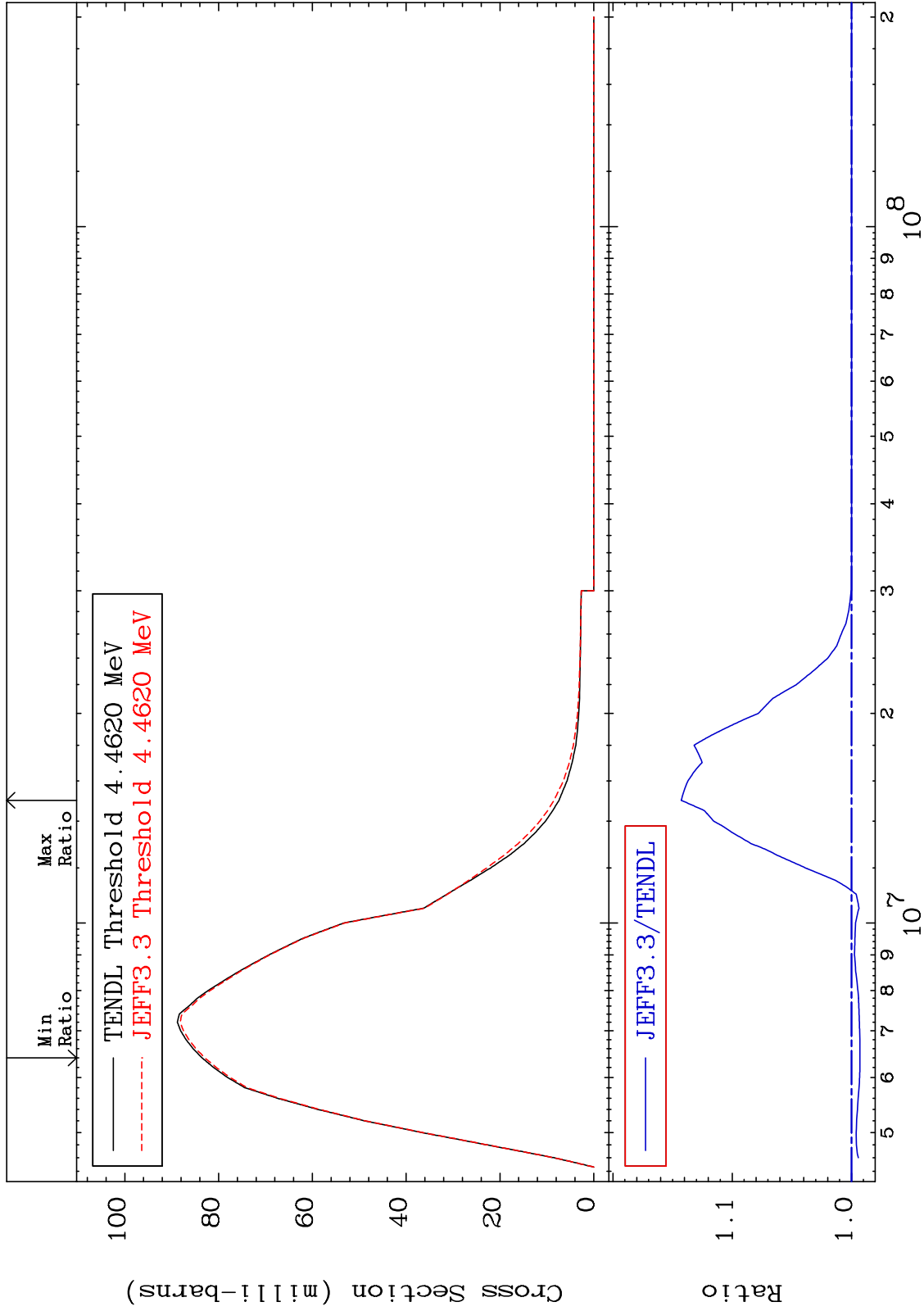
10-Ne-20
-1.614 To 9999. %



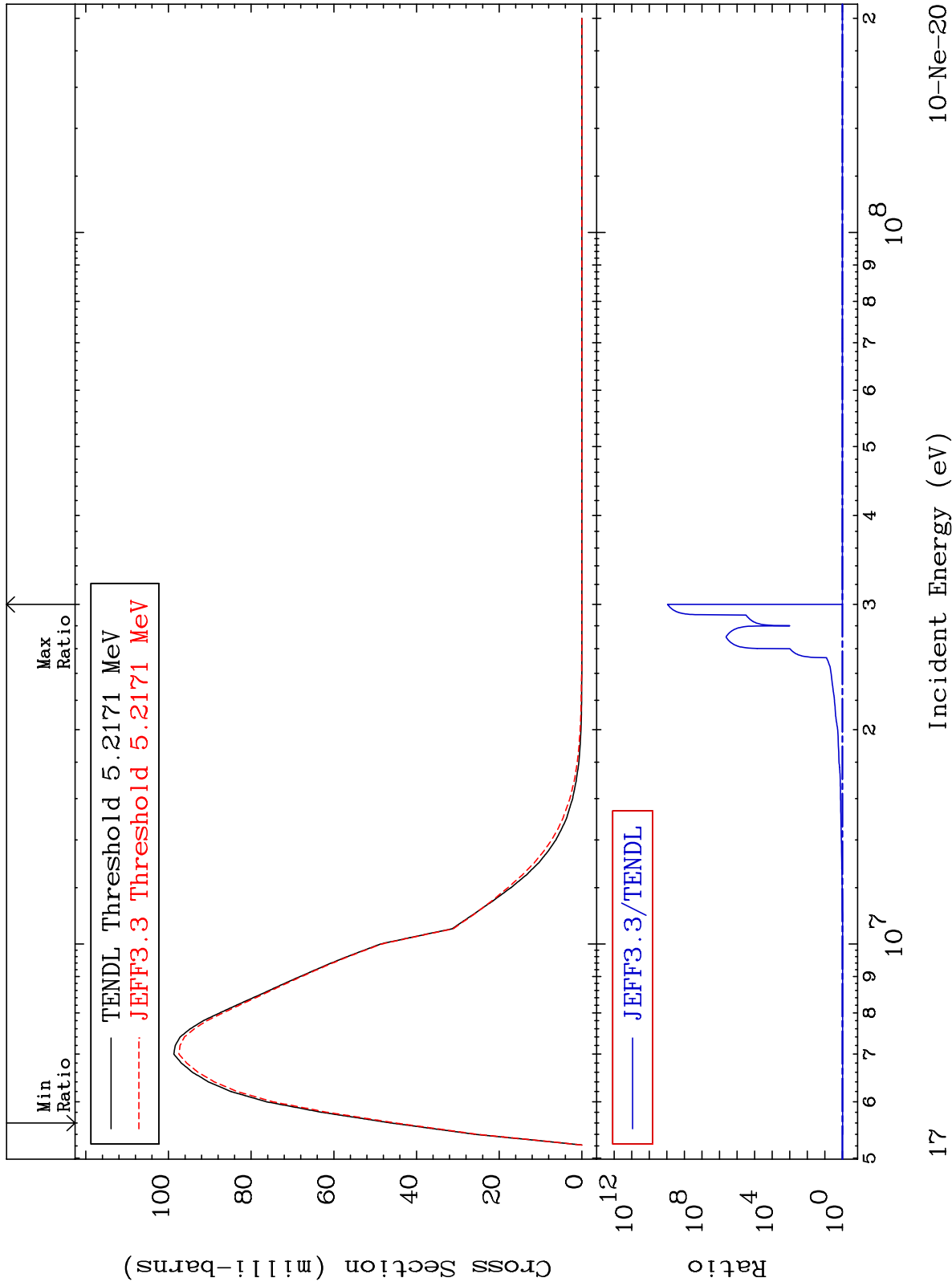
MAT 1025

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

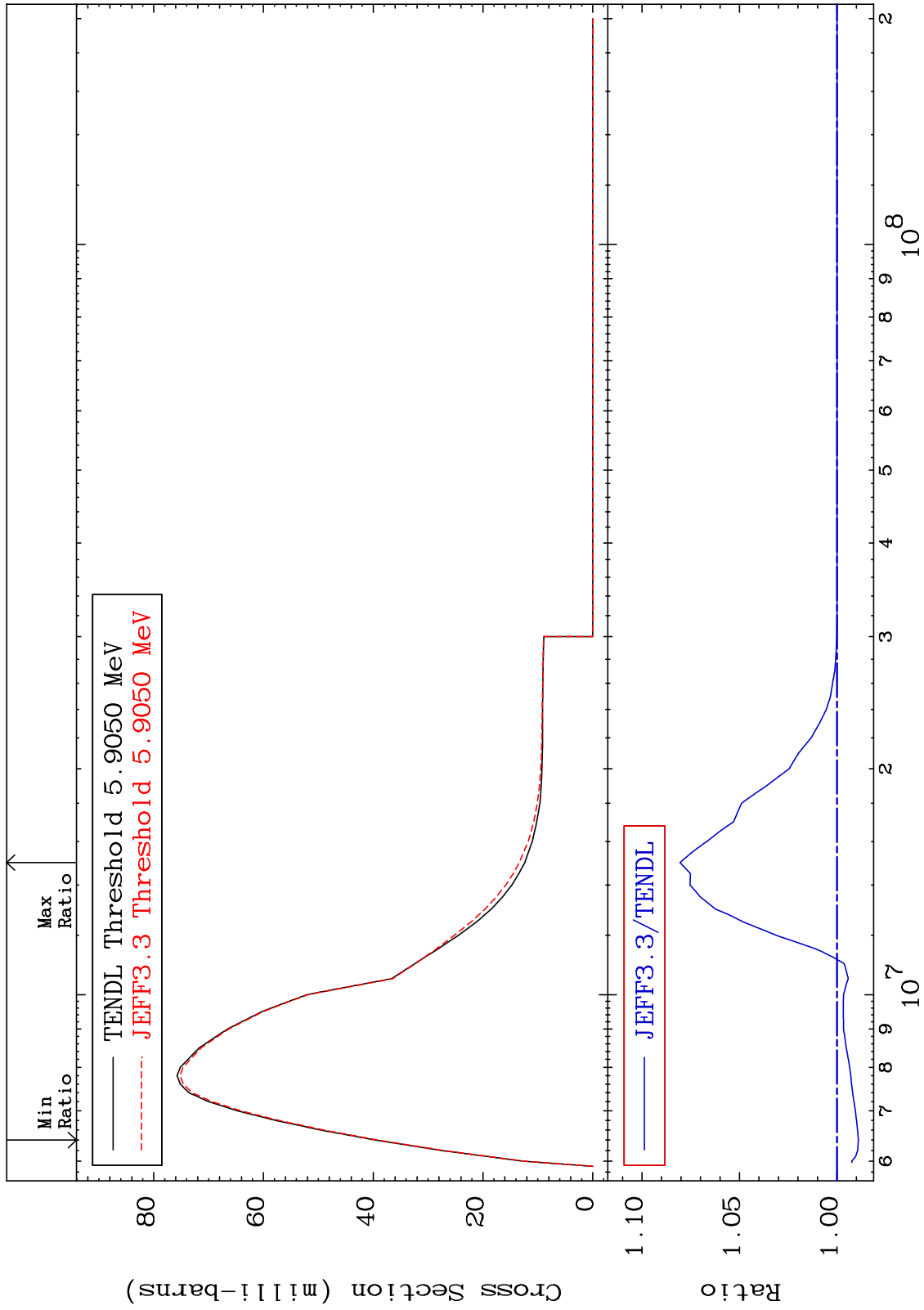
10-Ne-20
-0.704 To 14.27 %



MAT 1025 MT= 53 (n,n') Level Cross Section 10-Ne-20
 -2.286 To 9999. %



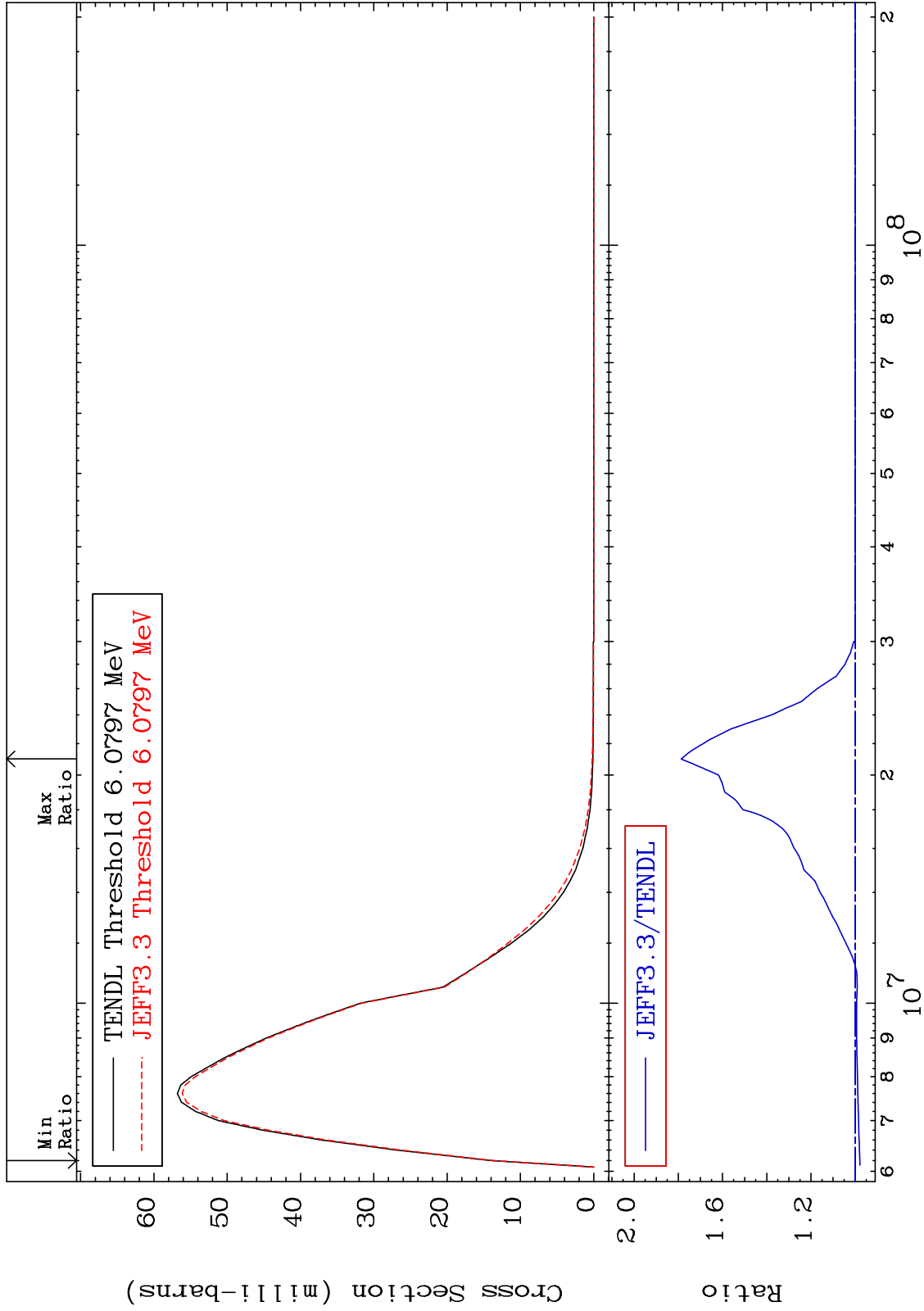
MAT 1025 MT= 54 (n,n') Level Cross Section 10-Ne-20
 -1.099 To 8.049 %



MAT 1025

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

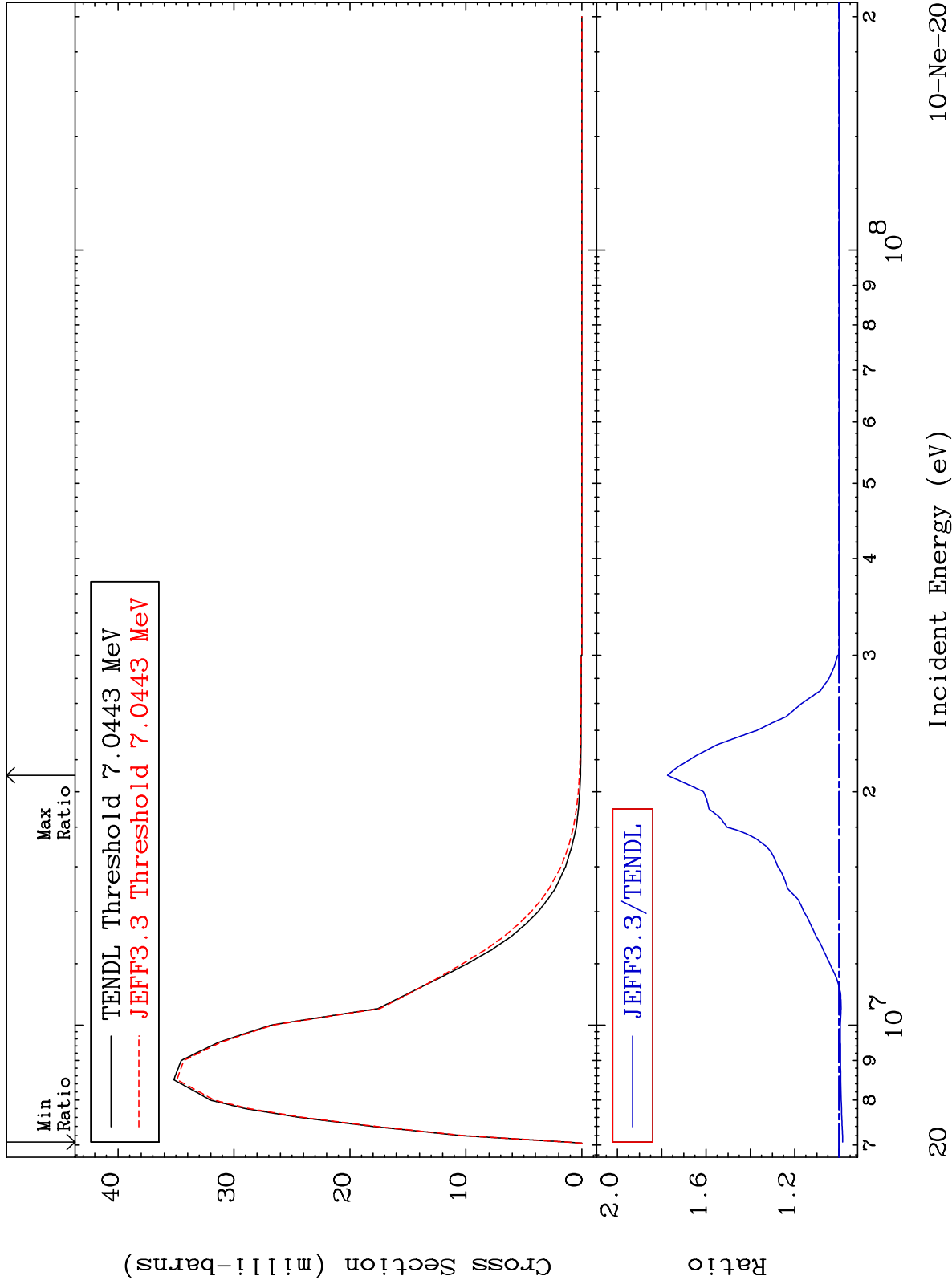
10-Ne-20
-2.135 To 78.69 %



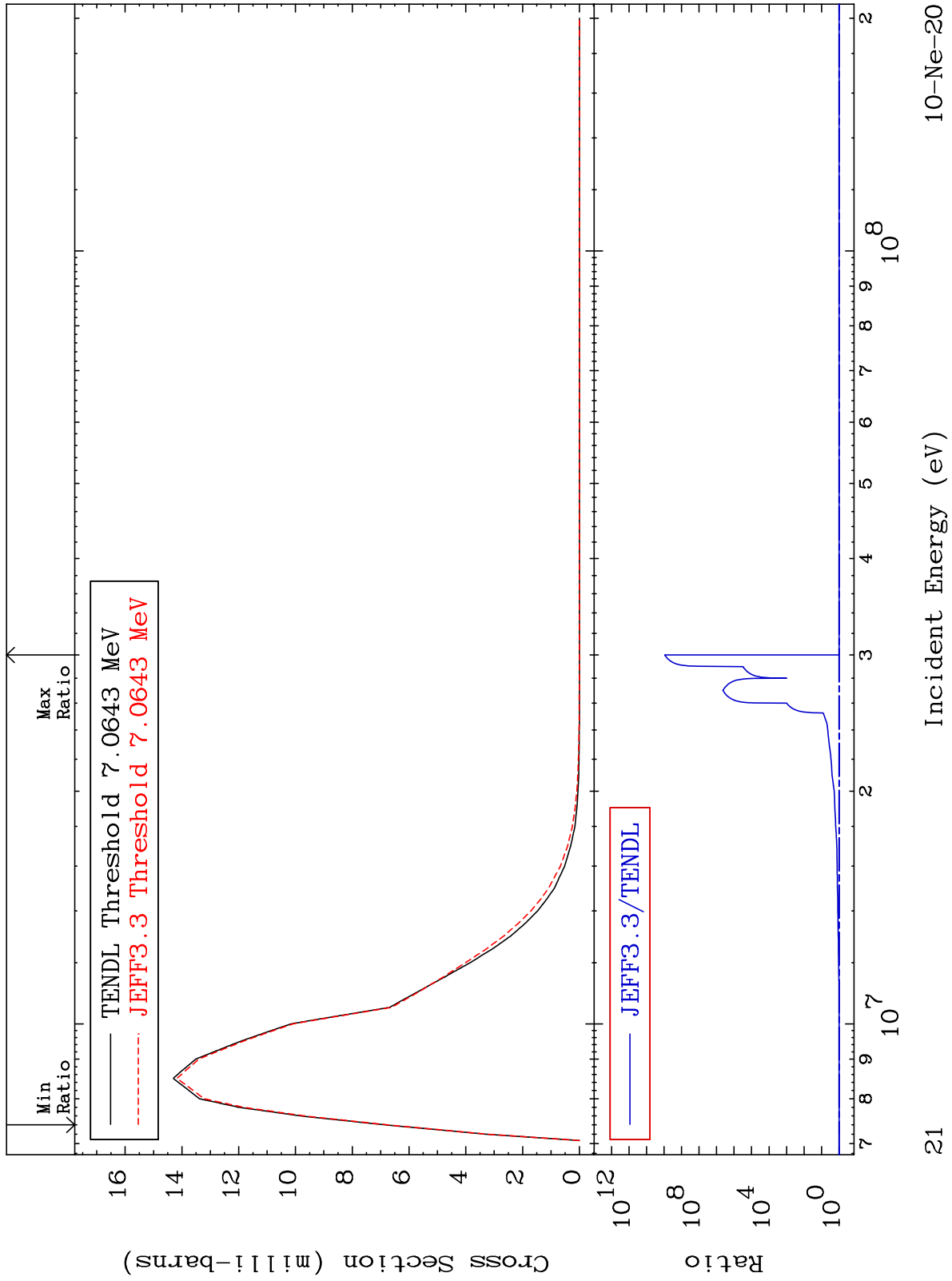
MAT 1025

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

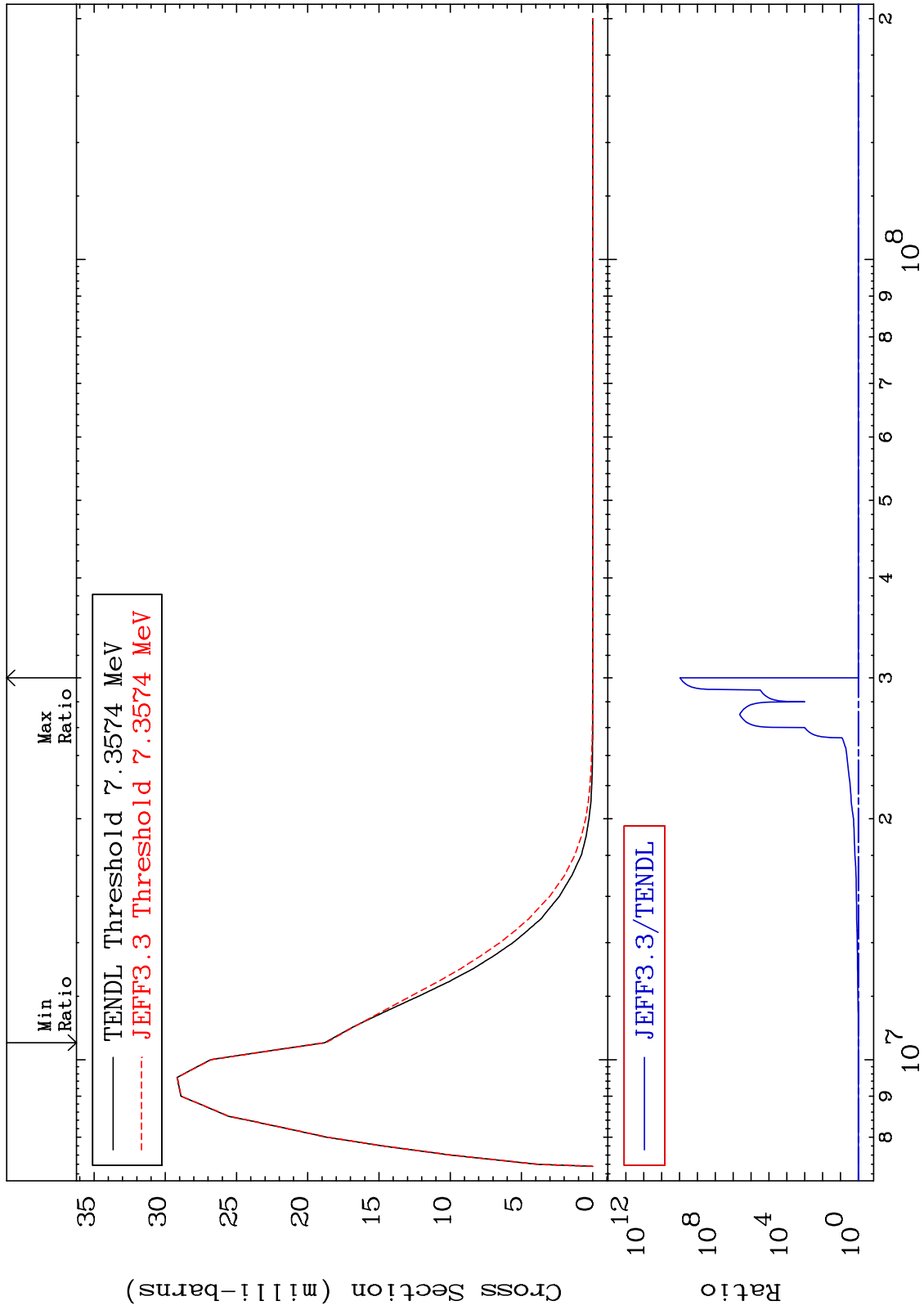
10-Ne-20
-1.651 To 77.33 %



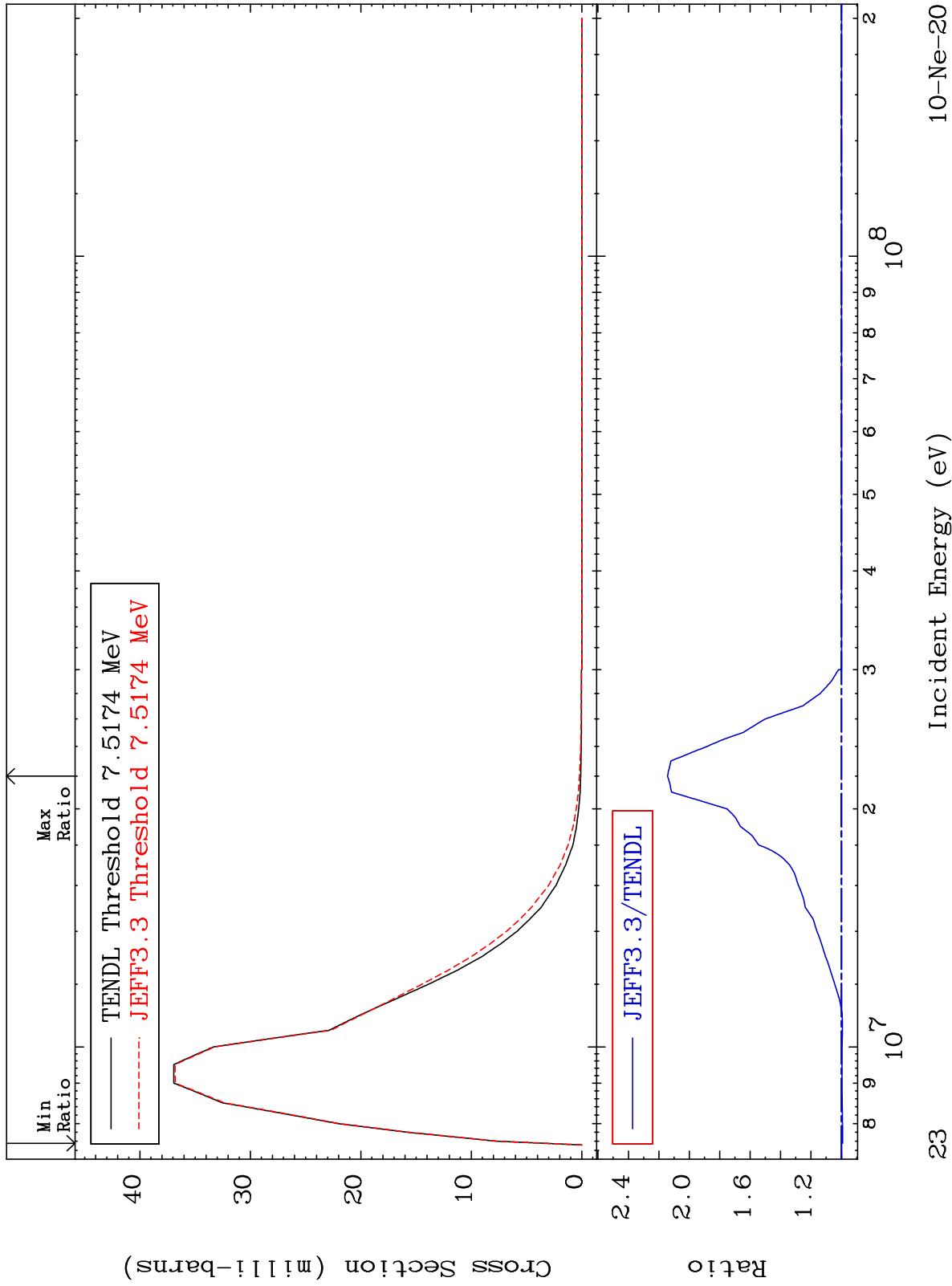
MAT 1025 MT= 57 (n,n') Level Cross Section -1.439 To 9999. % 10-Ne-20



MAT 1025 MT= 58 (n,n') Level Cross Section 10-Ne-20
 -0.495 To 9999. %



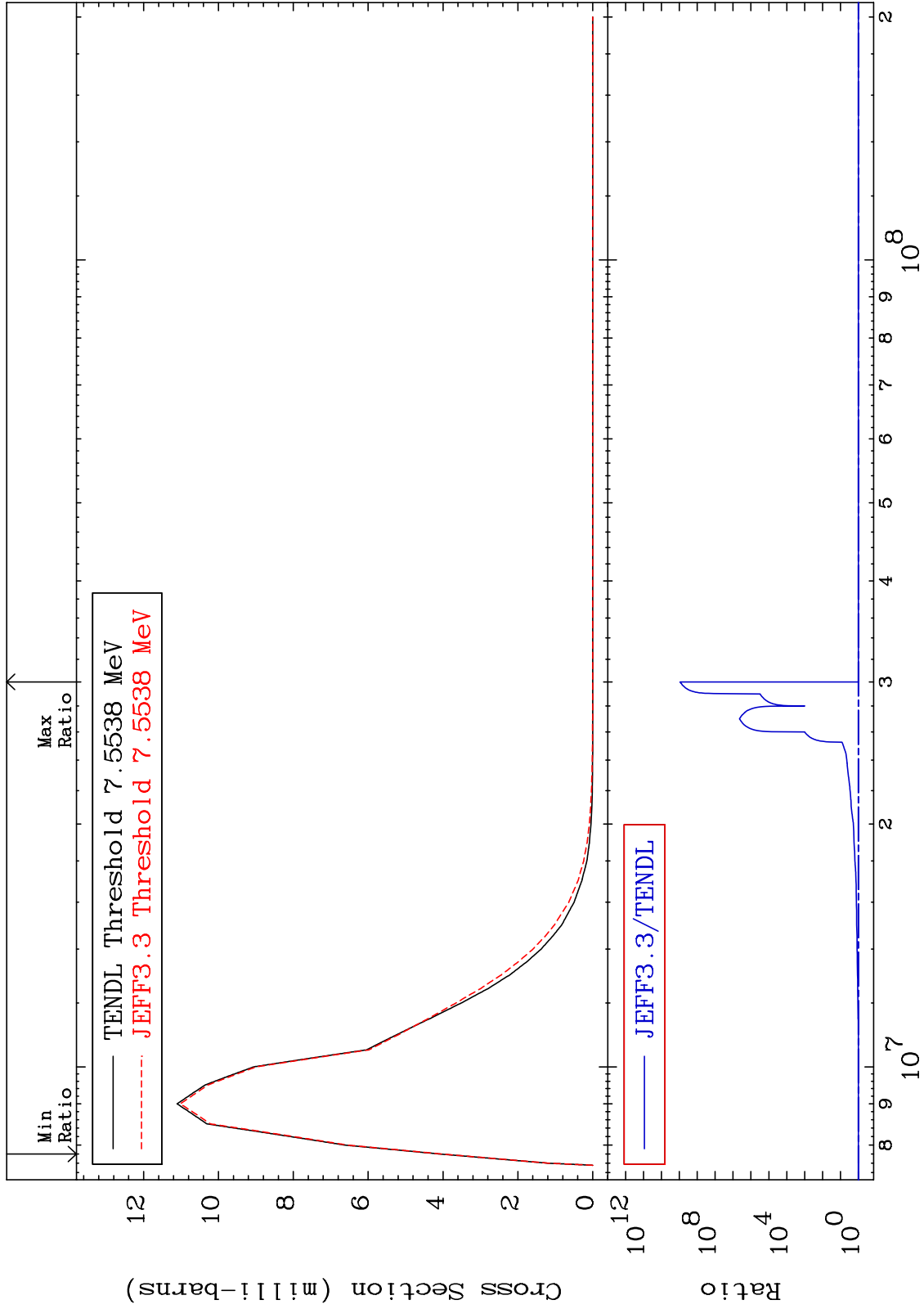
MAT 1025 MT= 59 (n, n') Level Cross Section 10-Ne-20 -0.801 To 114.3 %



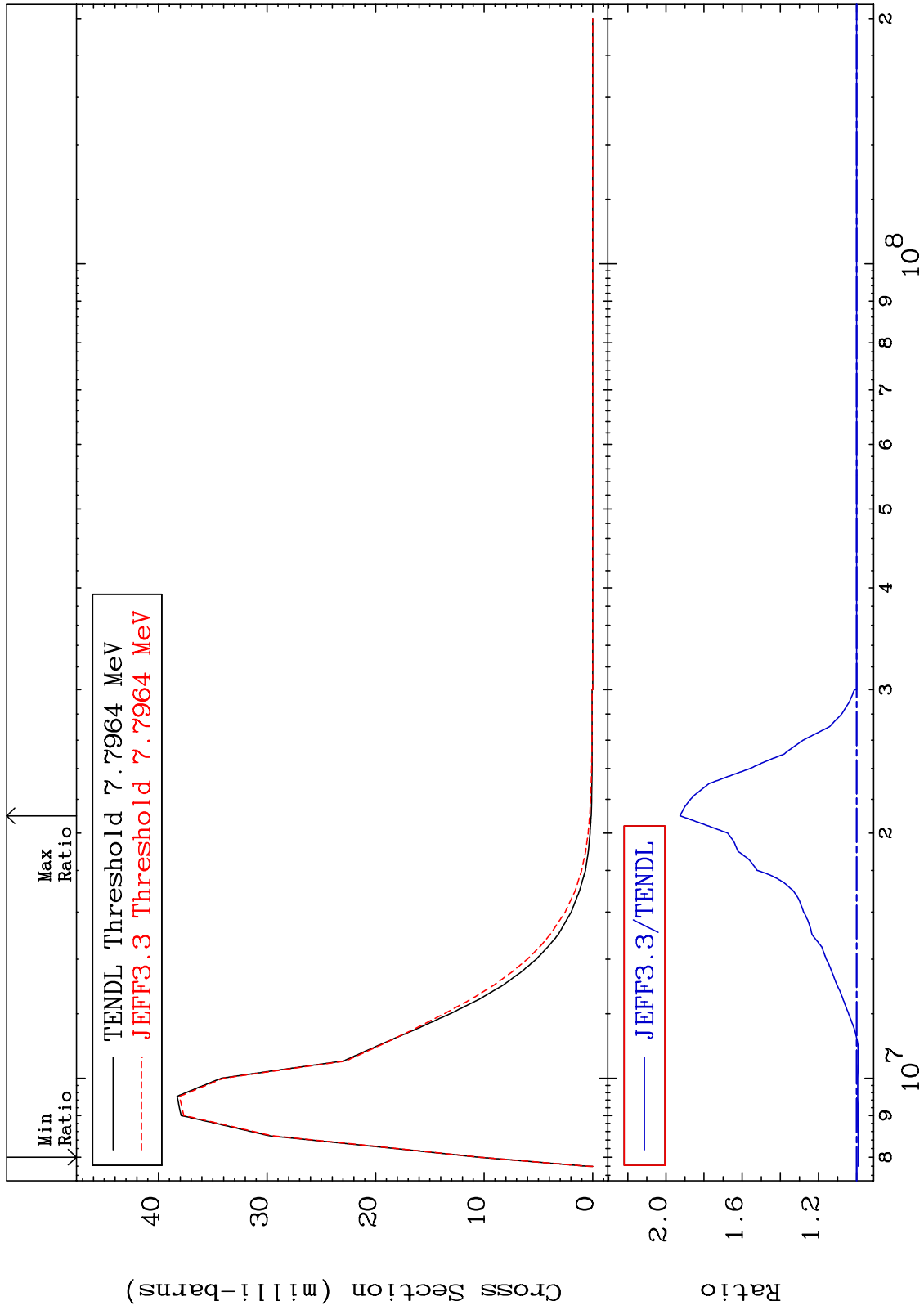
MAT 1025

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

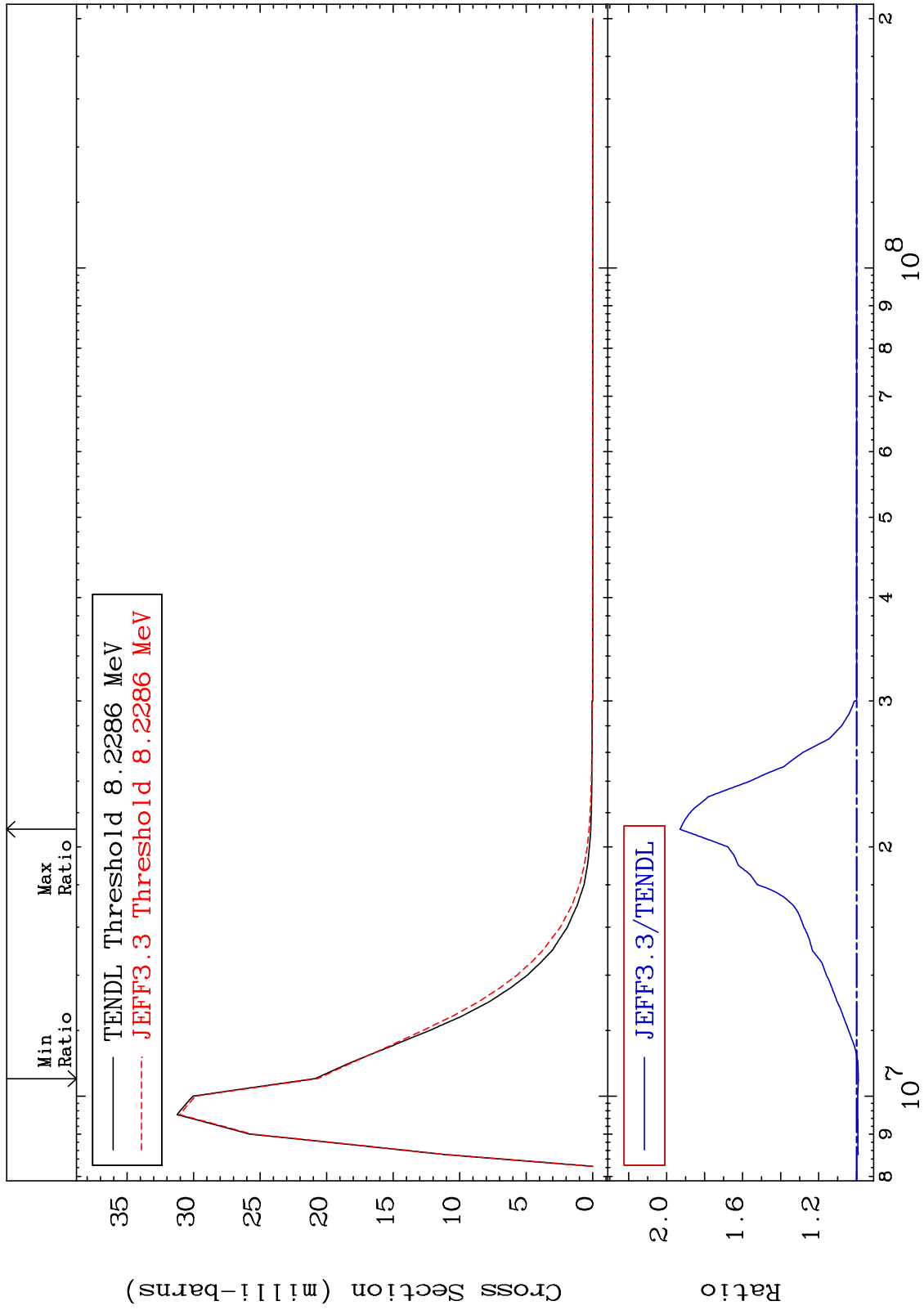
10-Ne-20
-1.217 To 9999. %



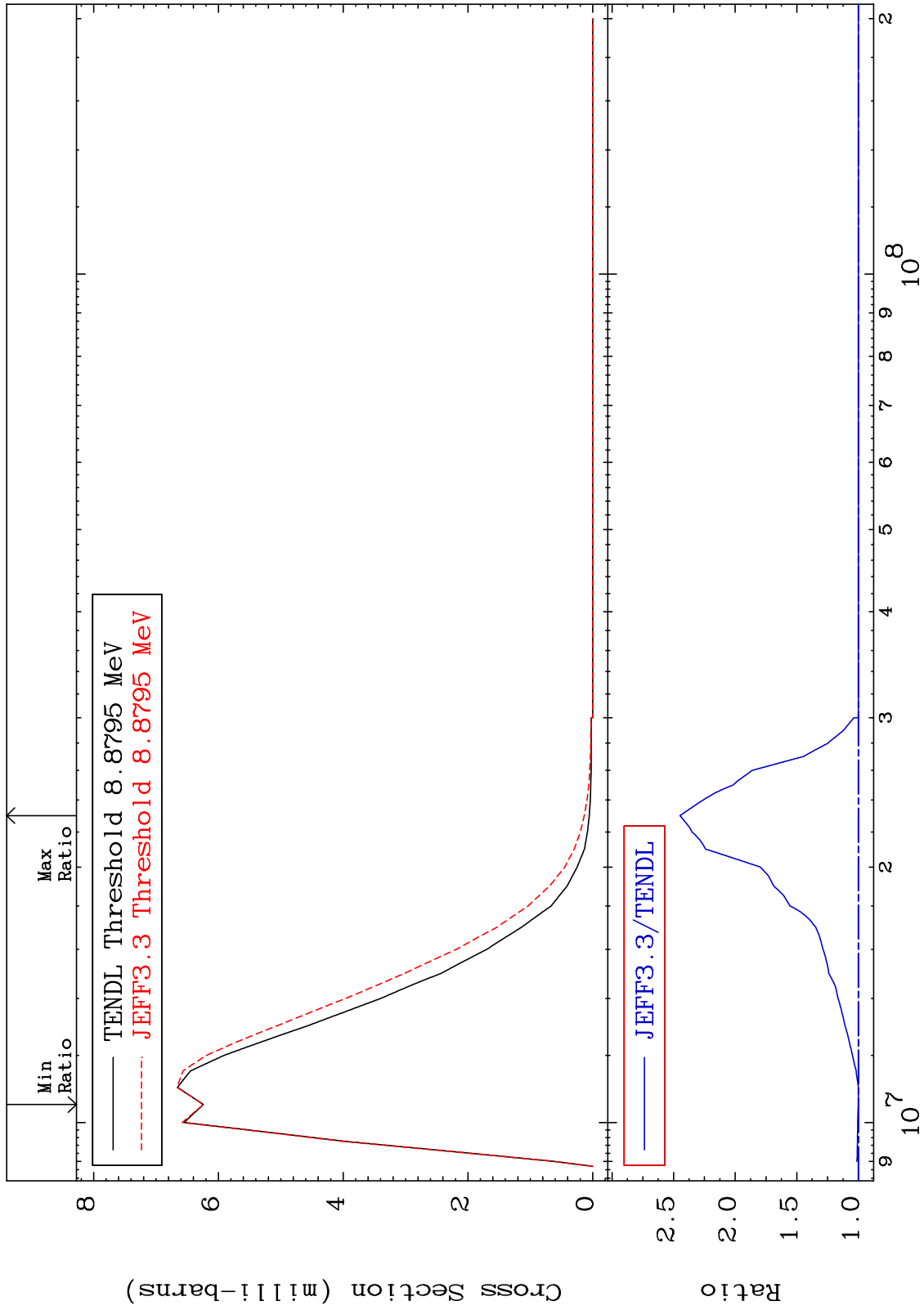
MAT 1025 MT= 61 (n,n') Level Cross Section 10-Ne-20
-0.928 To 92.60 %



MAT 1025 MT= 62 (n,n') Level Cross Section 10-Ne-20
-0.936 To 92.95 %



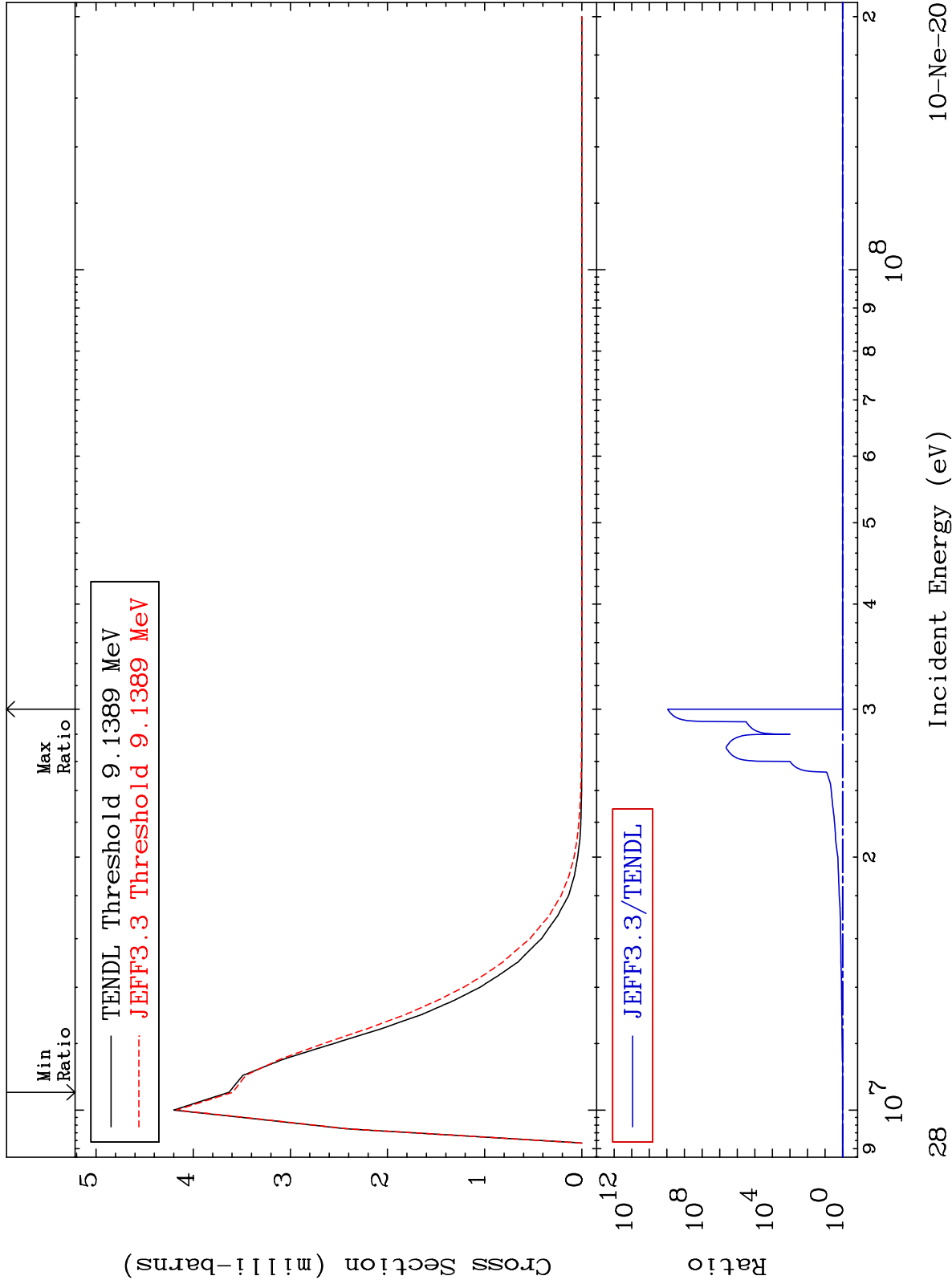
MAT 1025 MT= 63 (n,n') Level Cross Section 10-Ne-20
 -0.014 To 144.8 %



MAT 1025

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

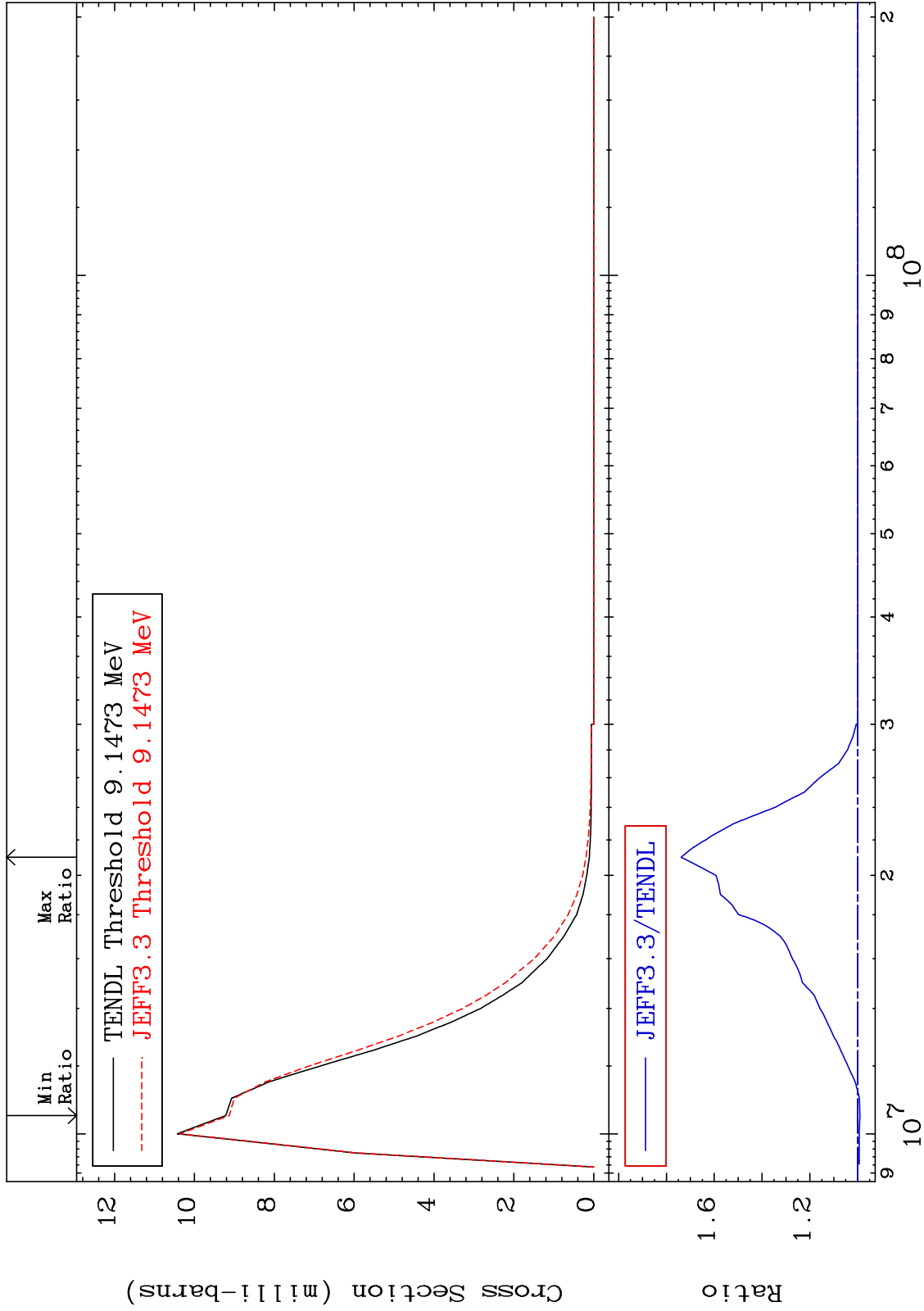
10-Ne-20
-1.072 To 9999. %



MAT 1025

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

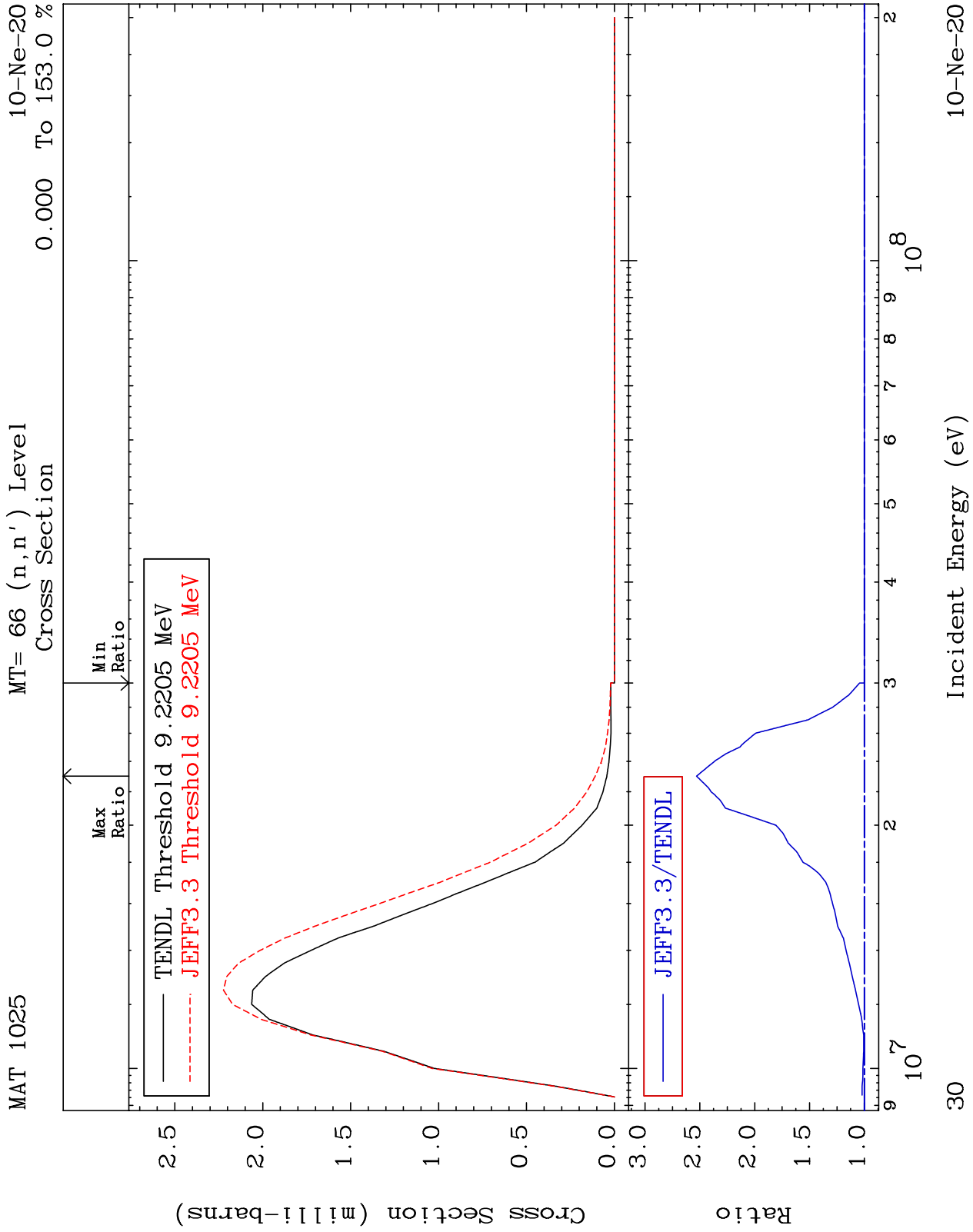
10-Ne-20
-0.935 To 73.81 %

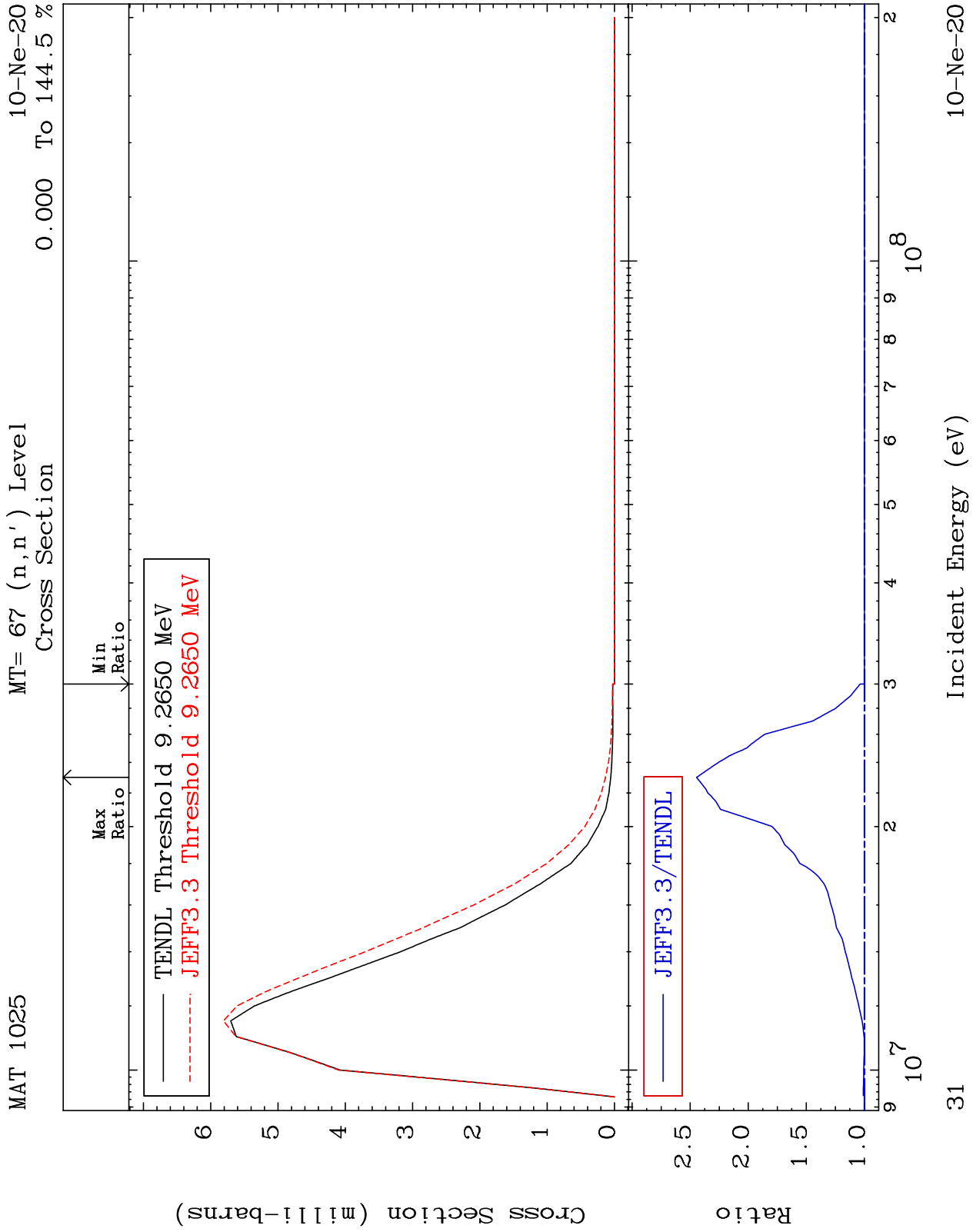


29

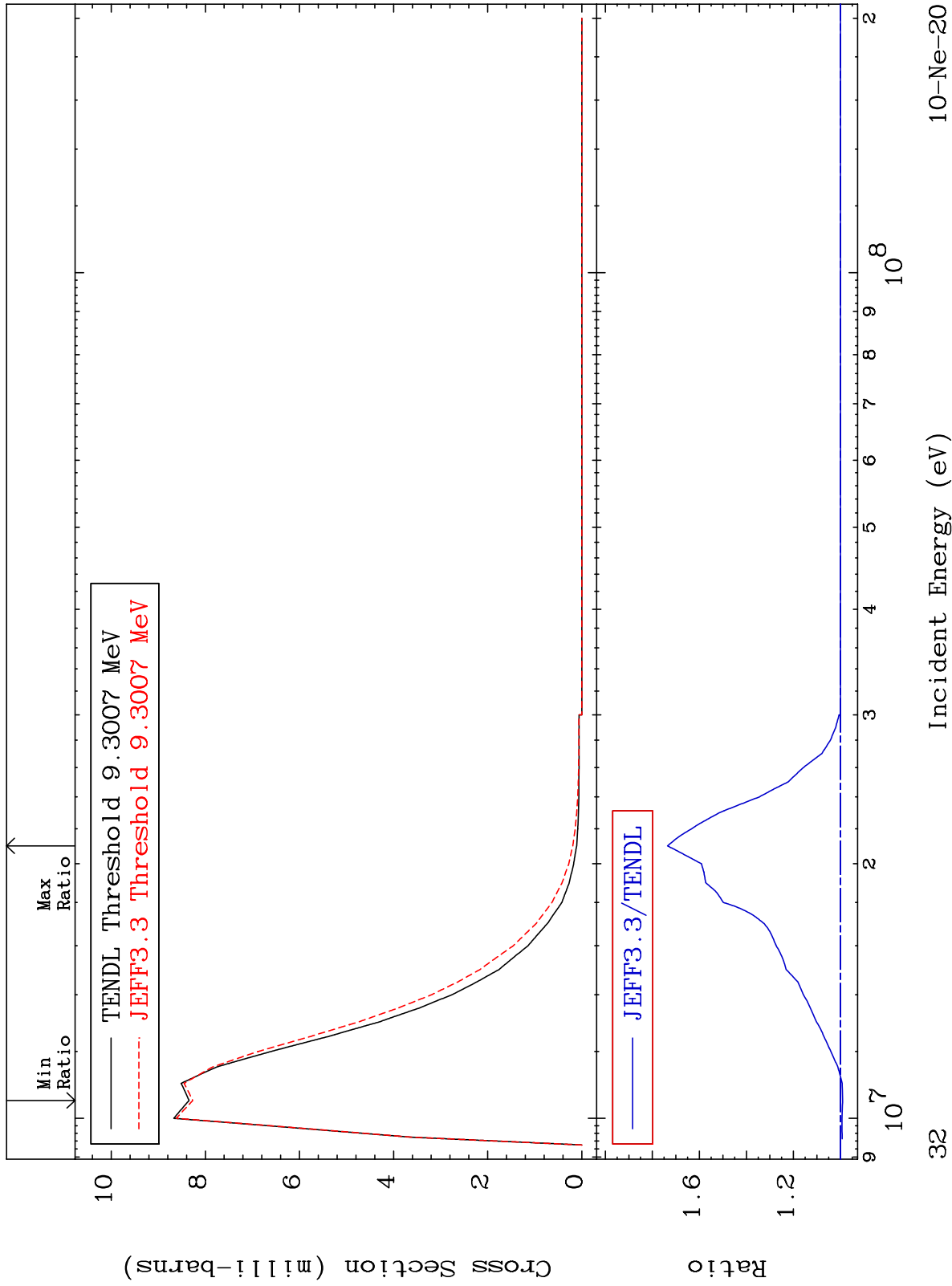
Incident Energy (eV)

10-Ne-20





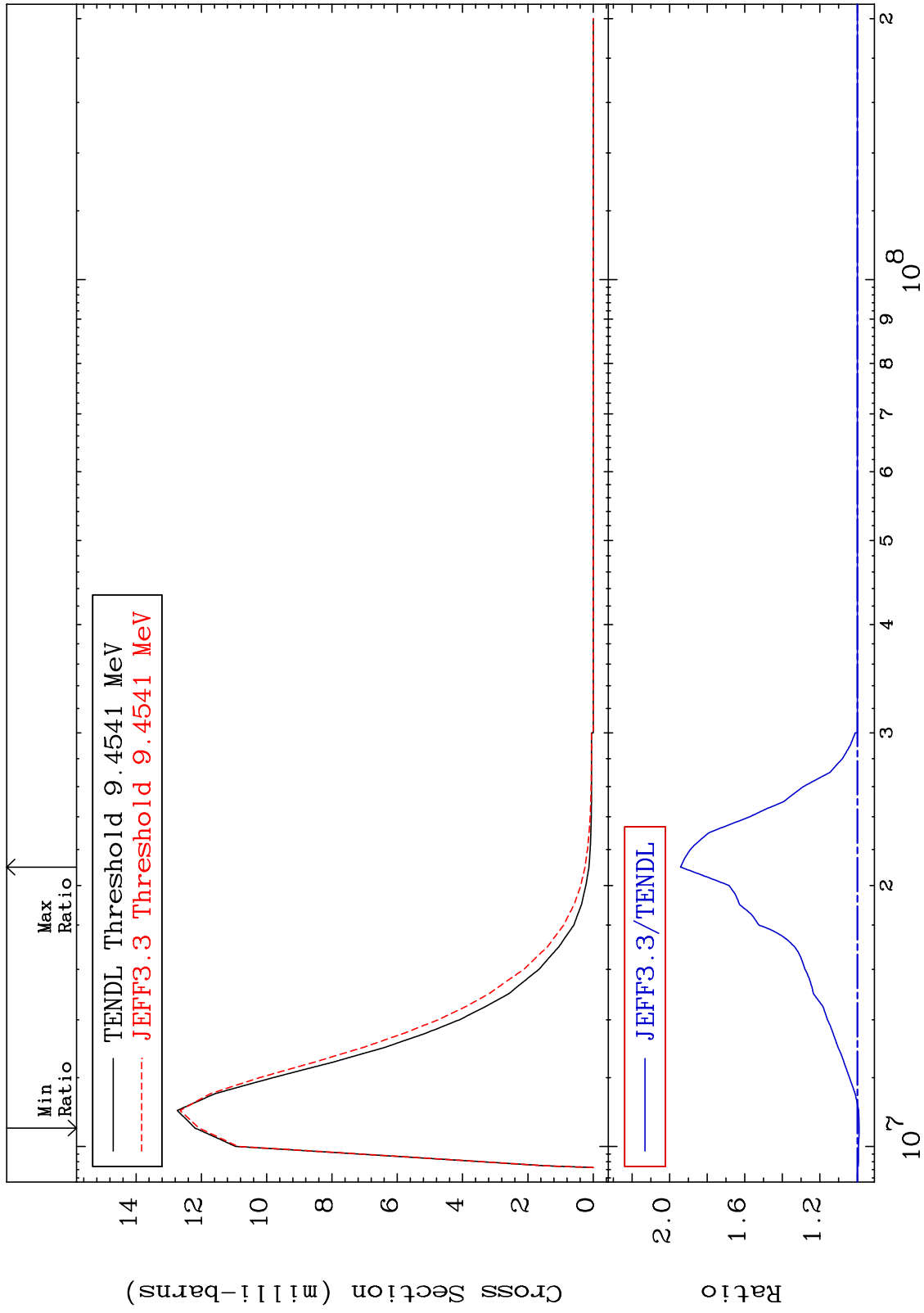
MAT 1025 MT= 68 (n,n') Level Cross Section 10-Ne-20 -0.935 To 73.54 %



MAT 1025

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

10-Ne-20
-0.968 To 94.14 %



Incident Energy (eV)

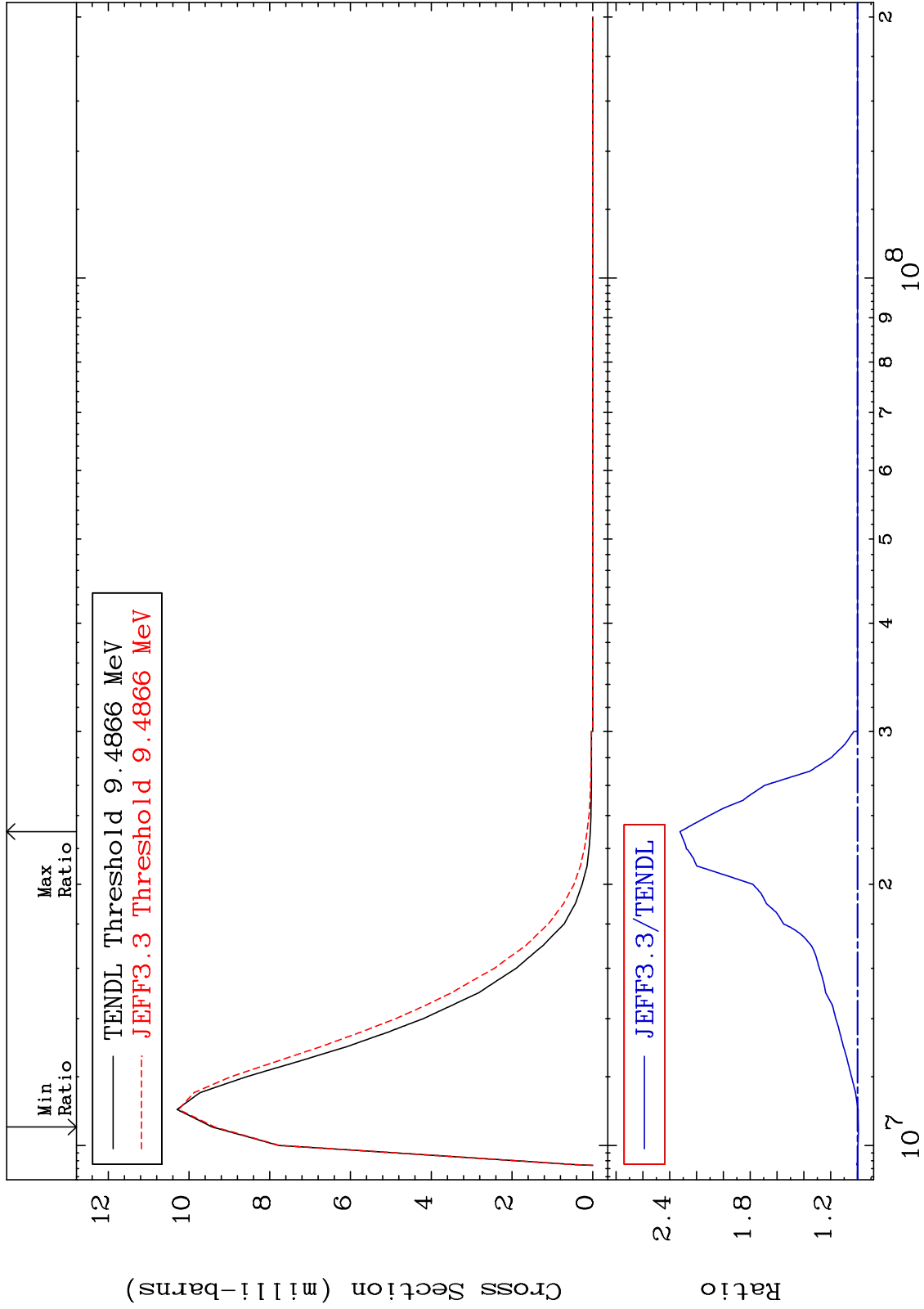
10-Ne-20

33

MAT 1025

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

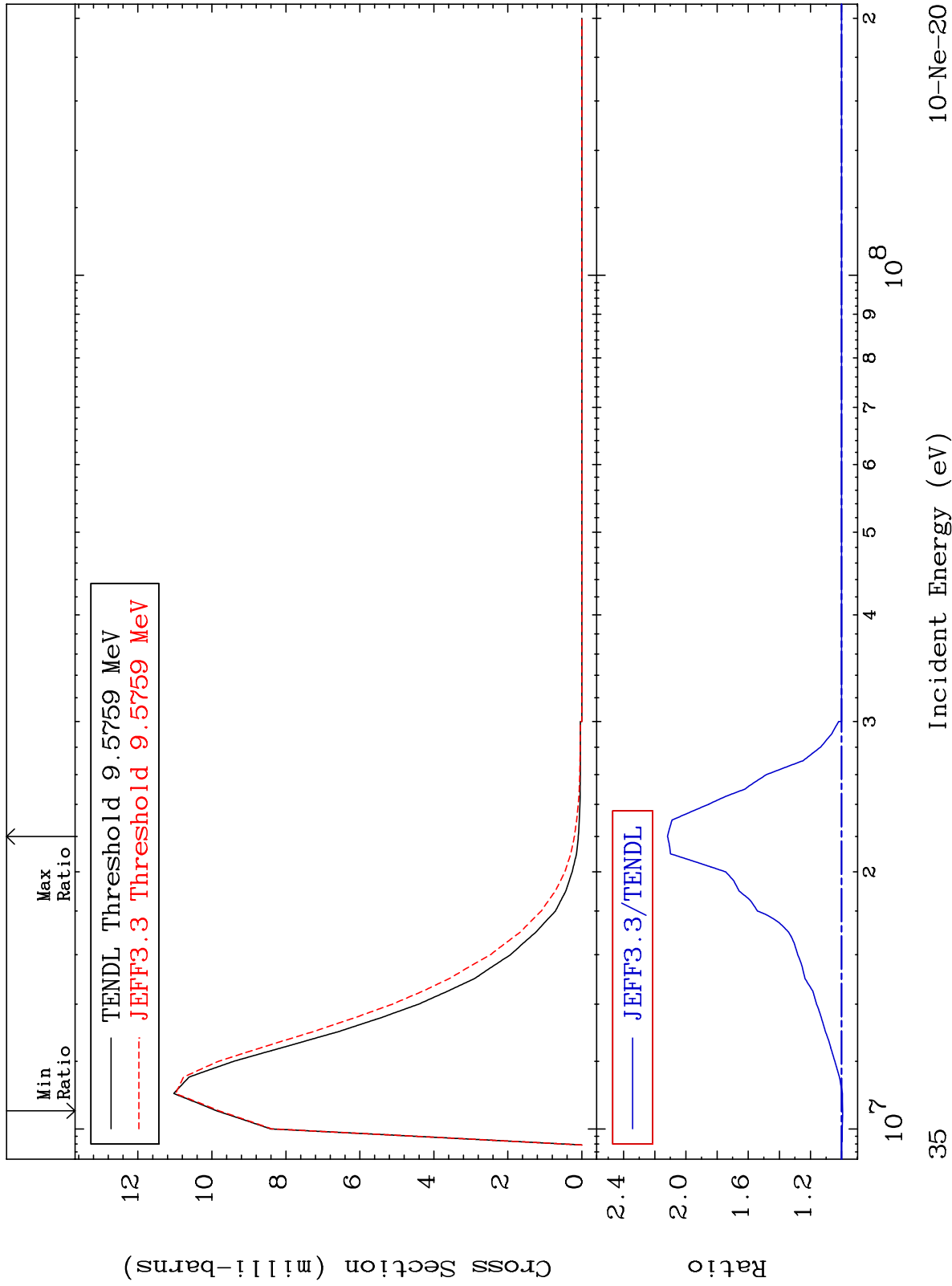
10-Ne-20
-0.657 To 132.4 %



34

10-Ne-20

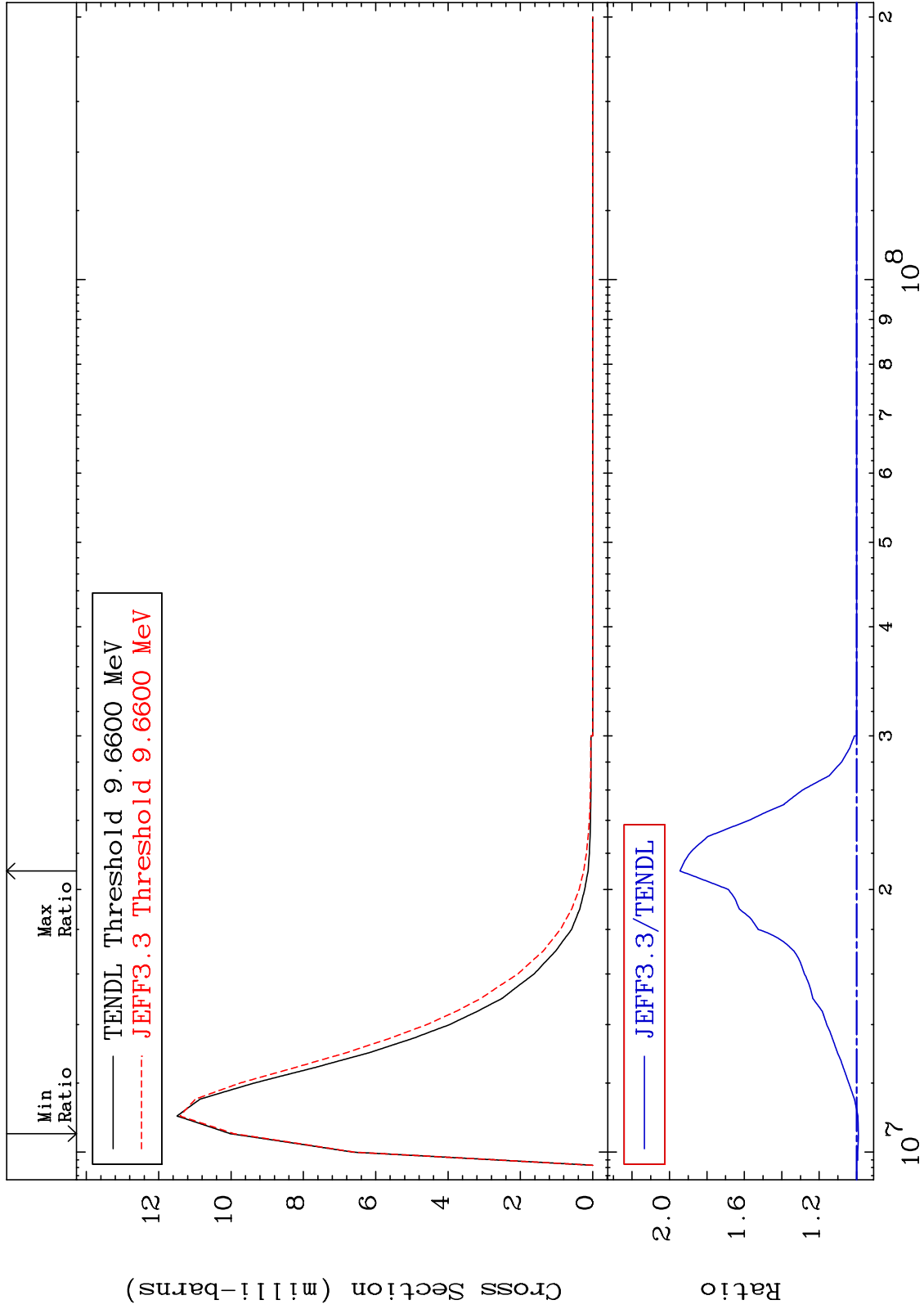
MAT 1025 MT= 71 (n,n') Level
Cross Section 10-Ne-20
-0.662 To 111.8 %



MAT 1025

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

10-Ne-20
-0.970 To 94.37 %



36

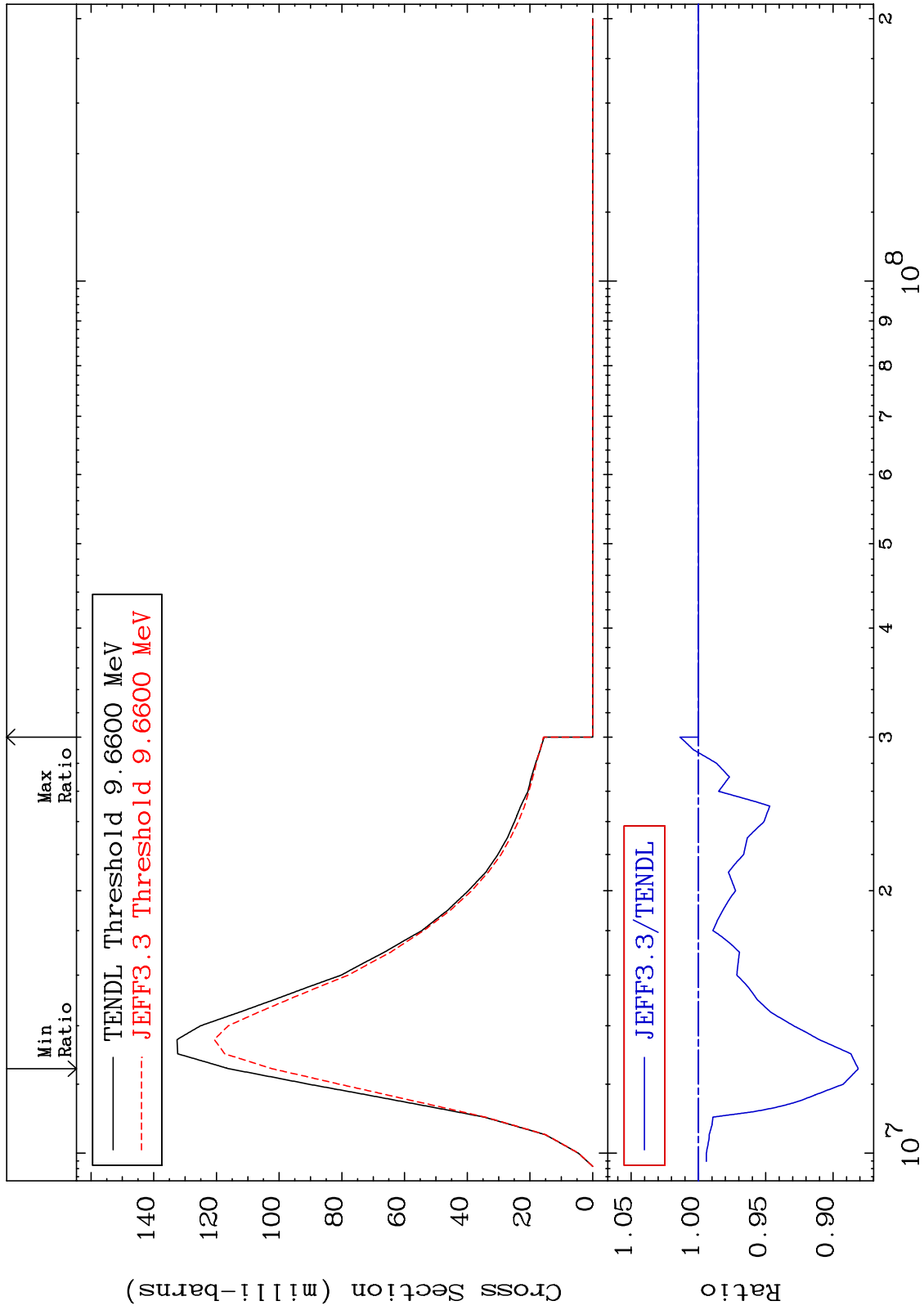
Incident Energy (eV)

10-Ne-20

MAT 1025

(n,n') Continuum
Cross Section

10-Ne-20
-11.89 To 1.369 %



37

Incident Energy (eV)

10-Ne-20

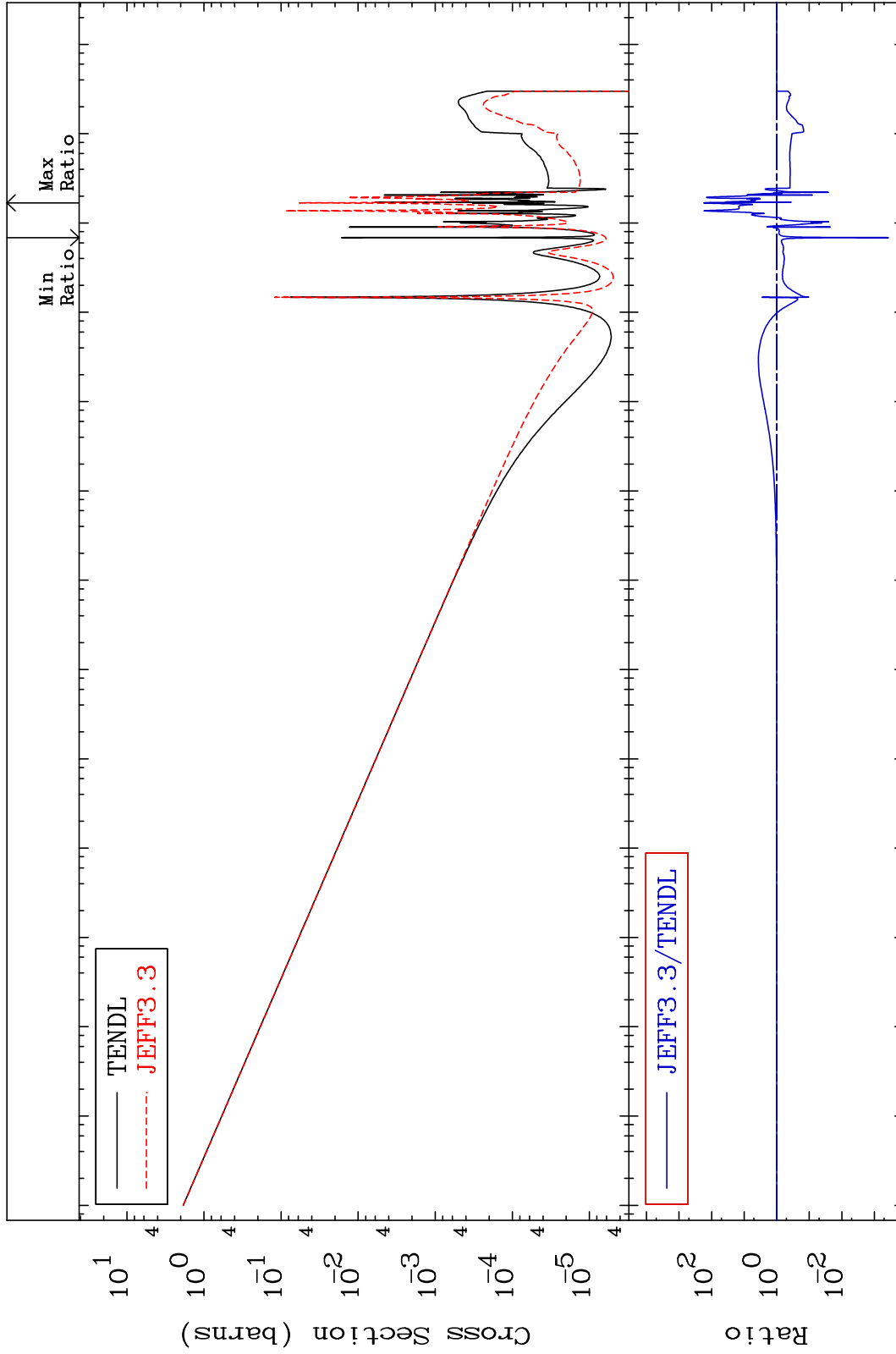
MAT 1025

(n, γ)

10-Ne-20

Cross Section

-99.96 To 9999. %



Incident Energy (eV)

10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁴ 10⁴ 10⁵ 10⁴ 10⁶ 10⁴ 10⁷ 10⁴ 10⁸

10-Ne-20

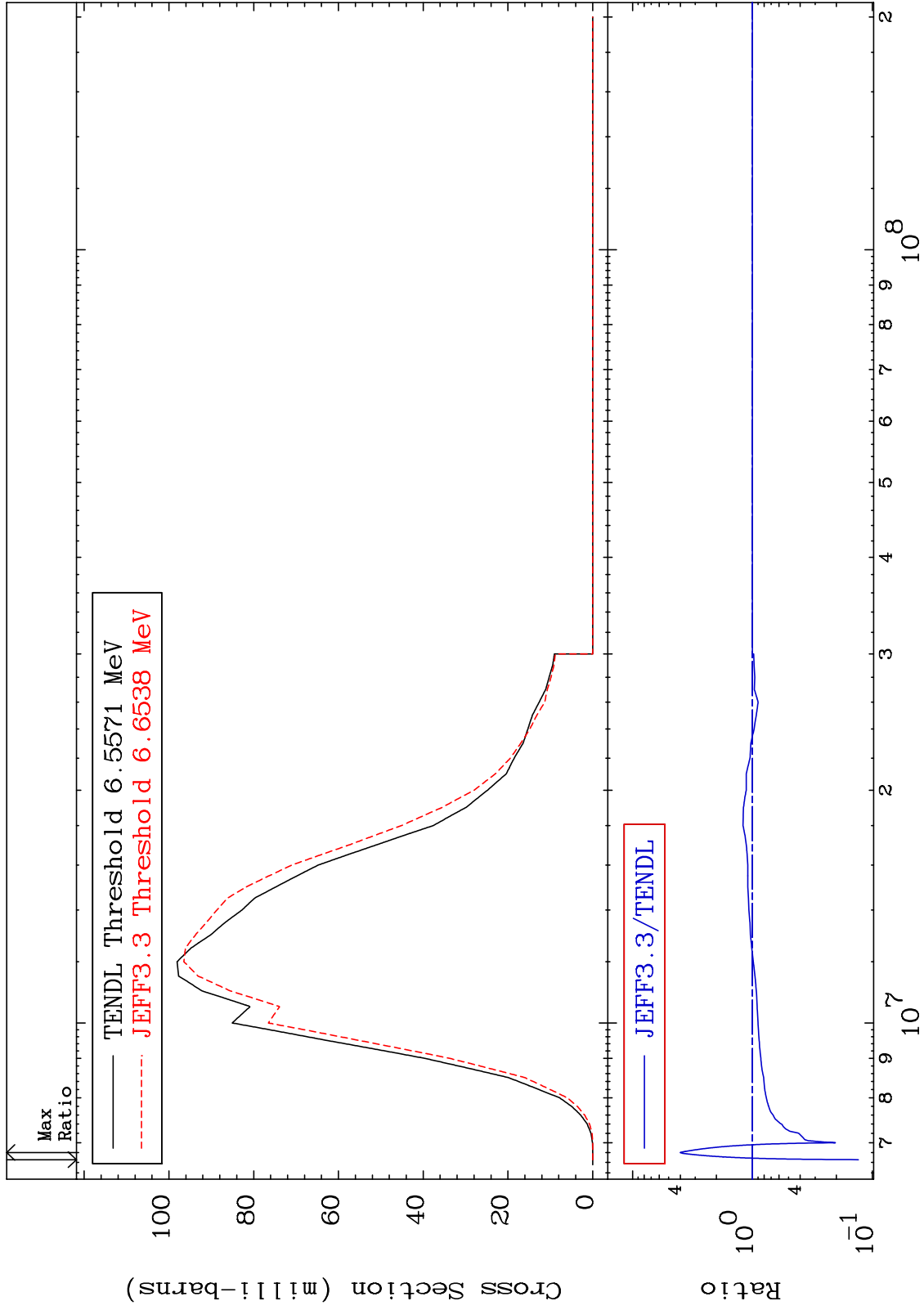
MAT 1025

(n,p)

10-Ne-20

Cross Section

-86.93 To 302.0 %



39

Incident Energy (eV)

10-Ne-20

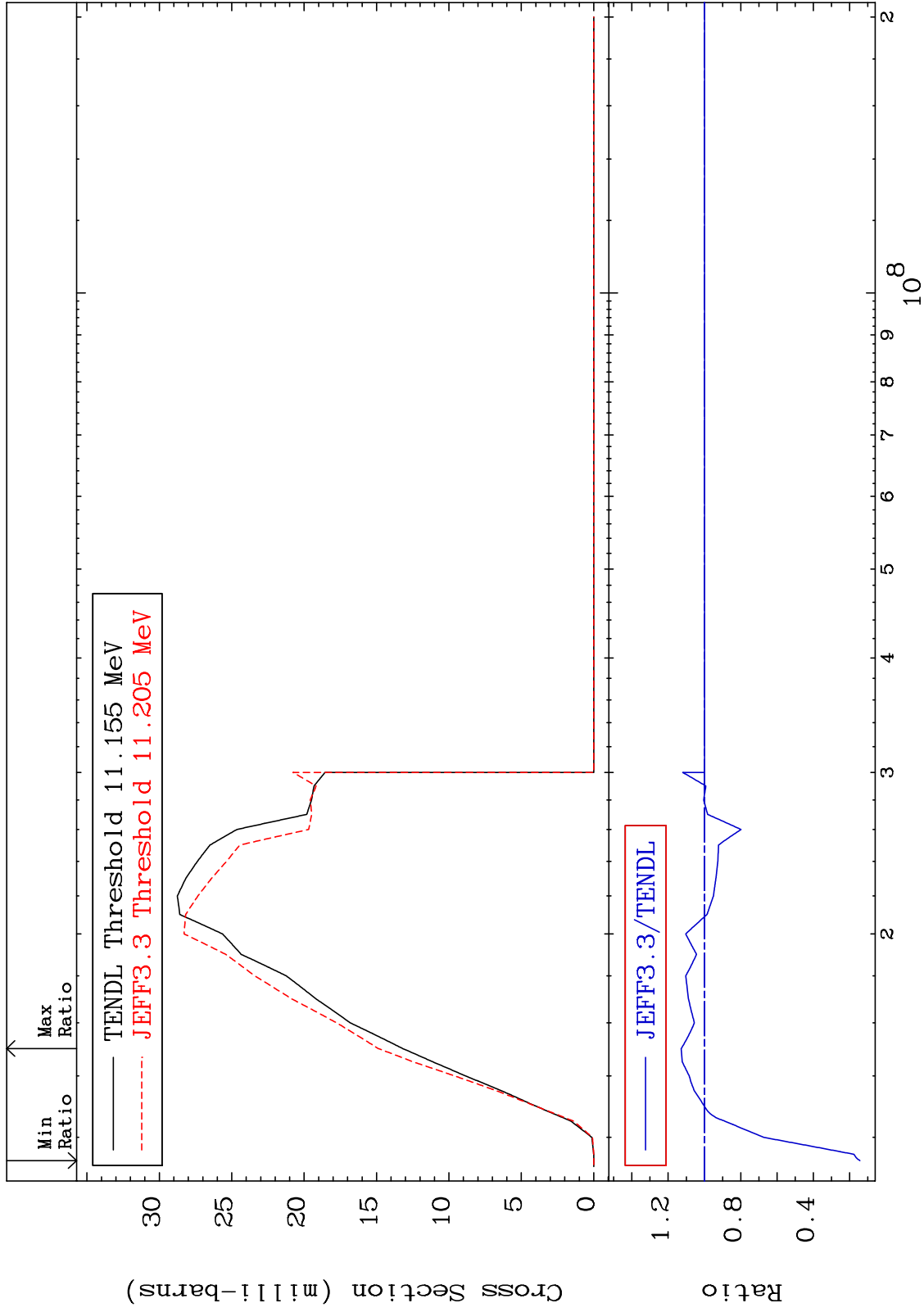
MAT 1025

(n, d)

10-Ne-20

Cross Section

-85.67 To 12.79 %



Min Ratio

Max Ratio

TENDL Threshold 11.155 MeV
JEFF3.3 Threshold 11.205 MeV

JEFF3.3/TENDL

40

Incident Energy (eV)

10-Ne-20

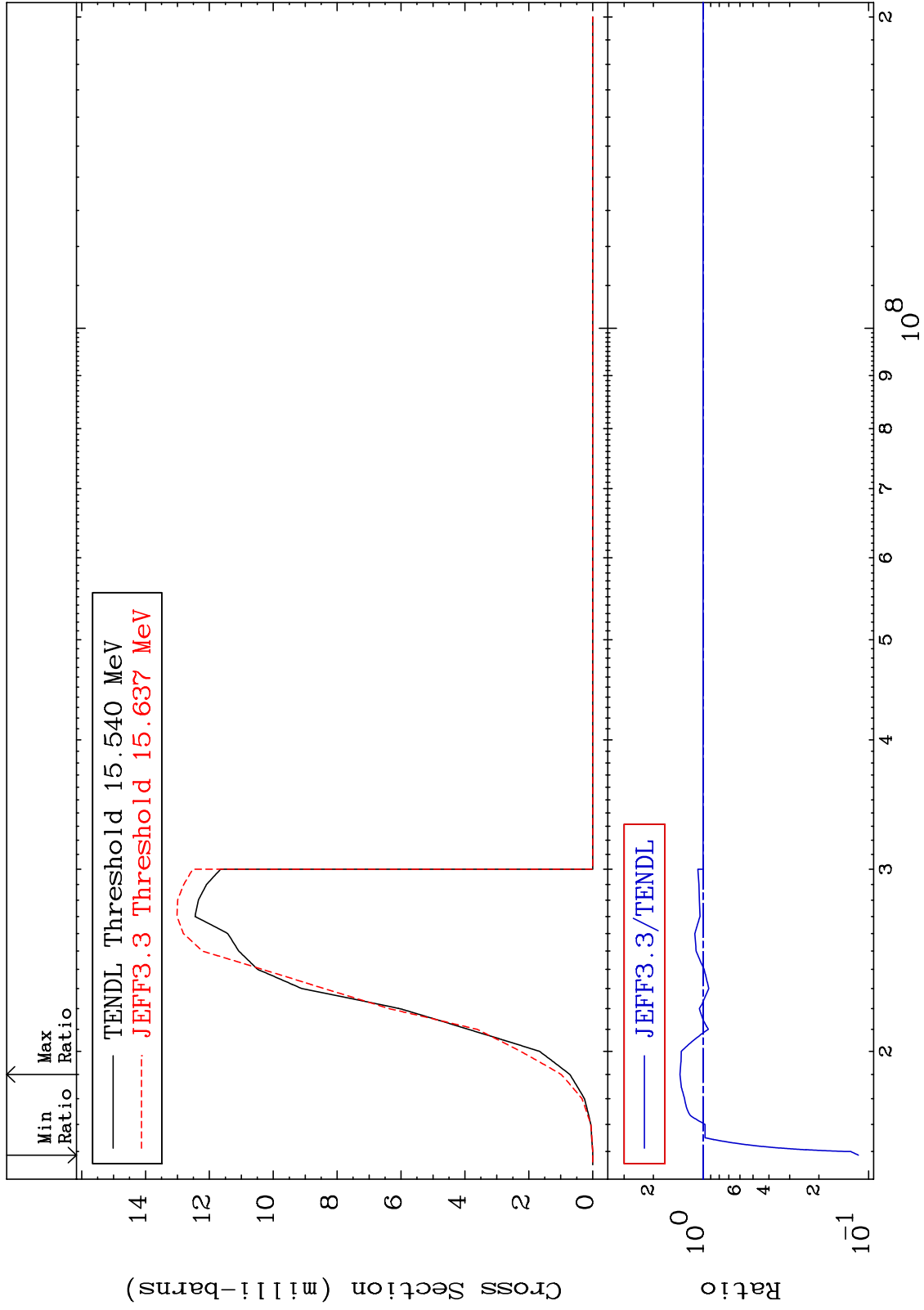
MAT 1025

(n, t)

10-Ne-20

Cross Section

-88.46 To 37.89 %



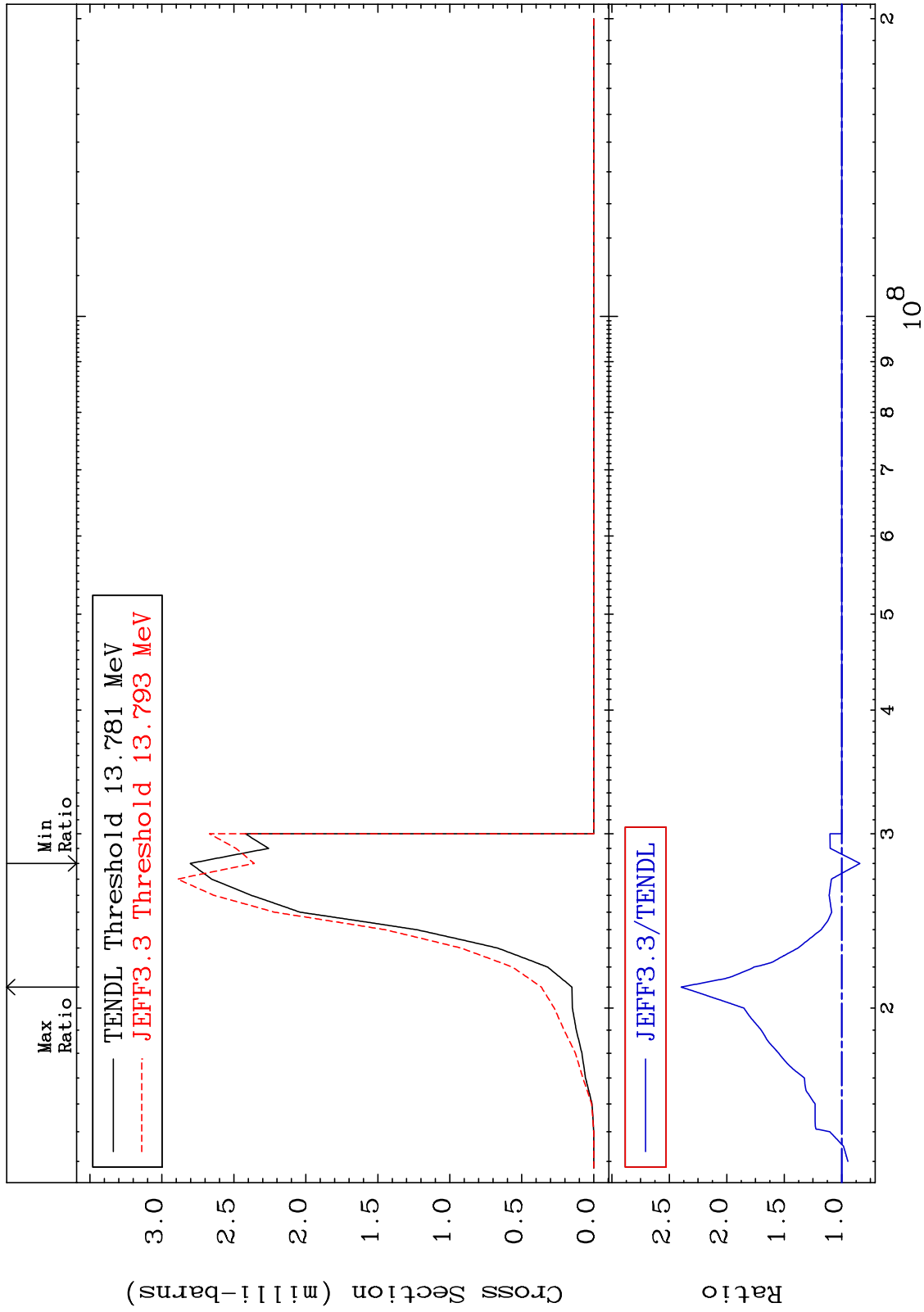
MAT 1025

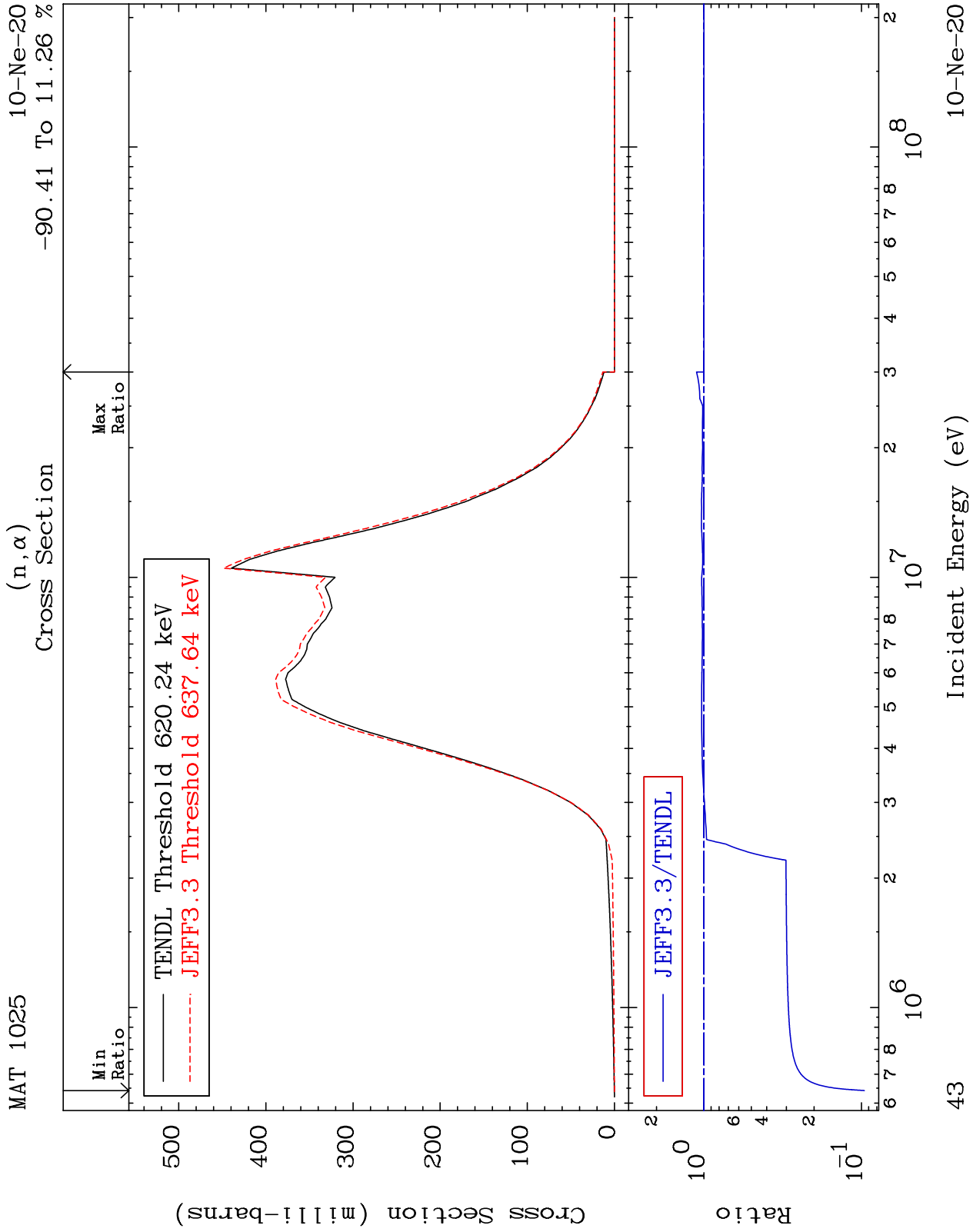
(n, He-3)

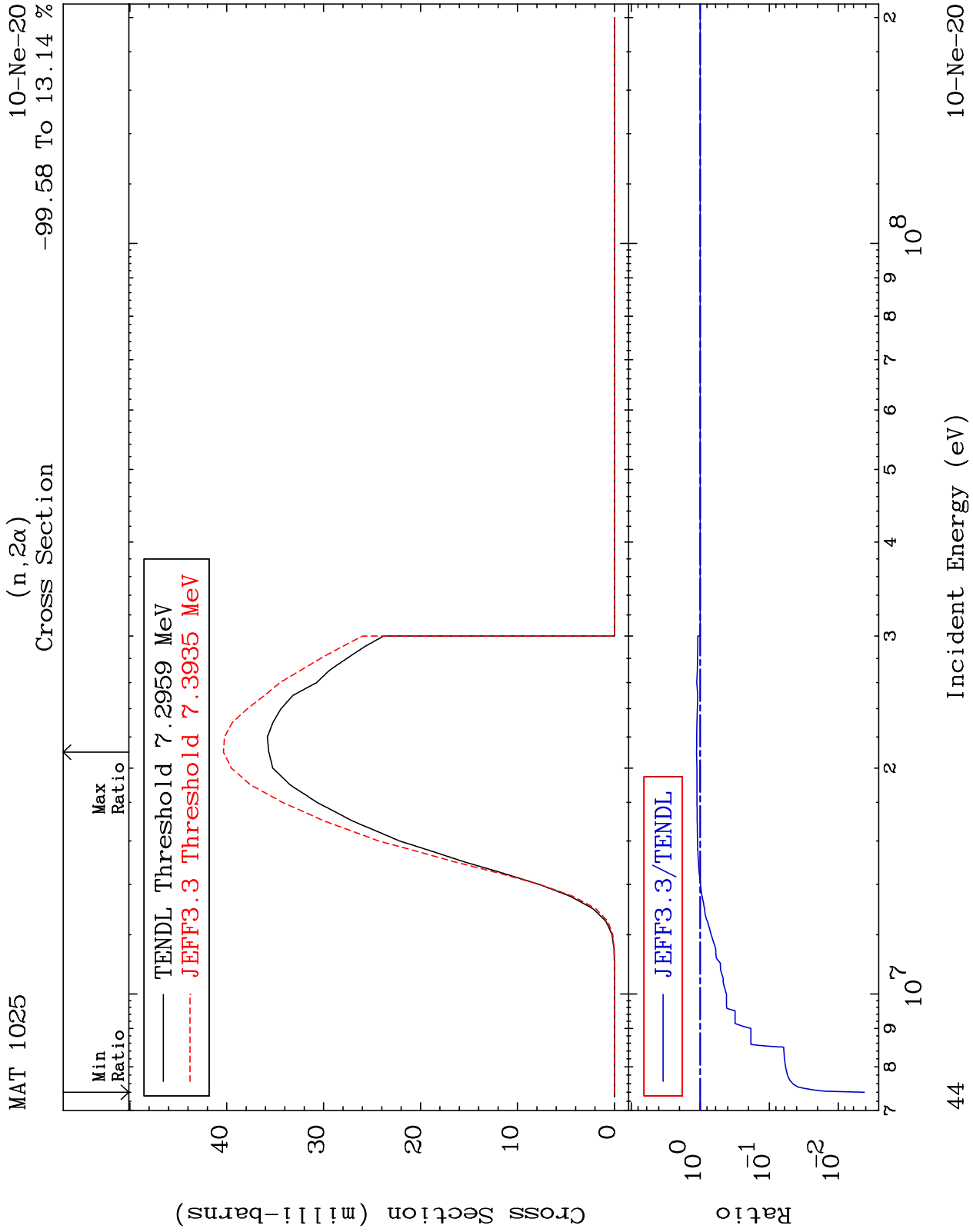
10-Ne-20

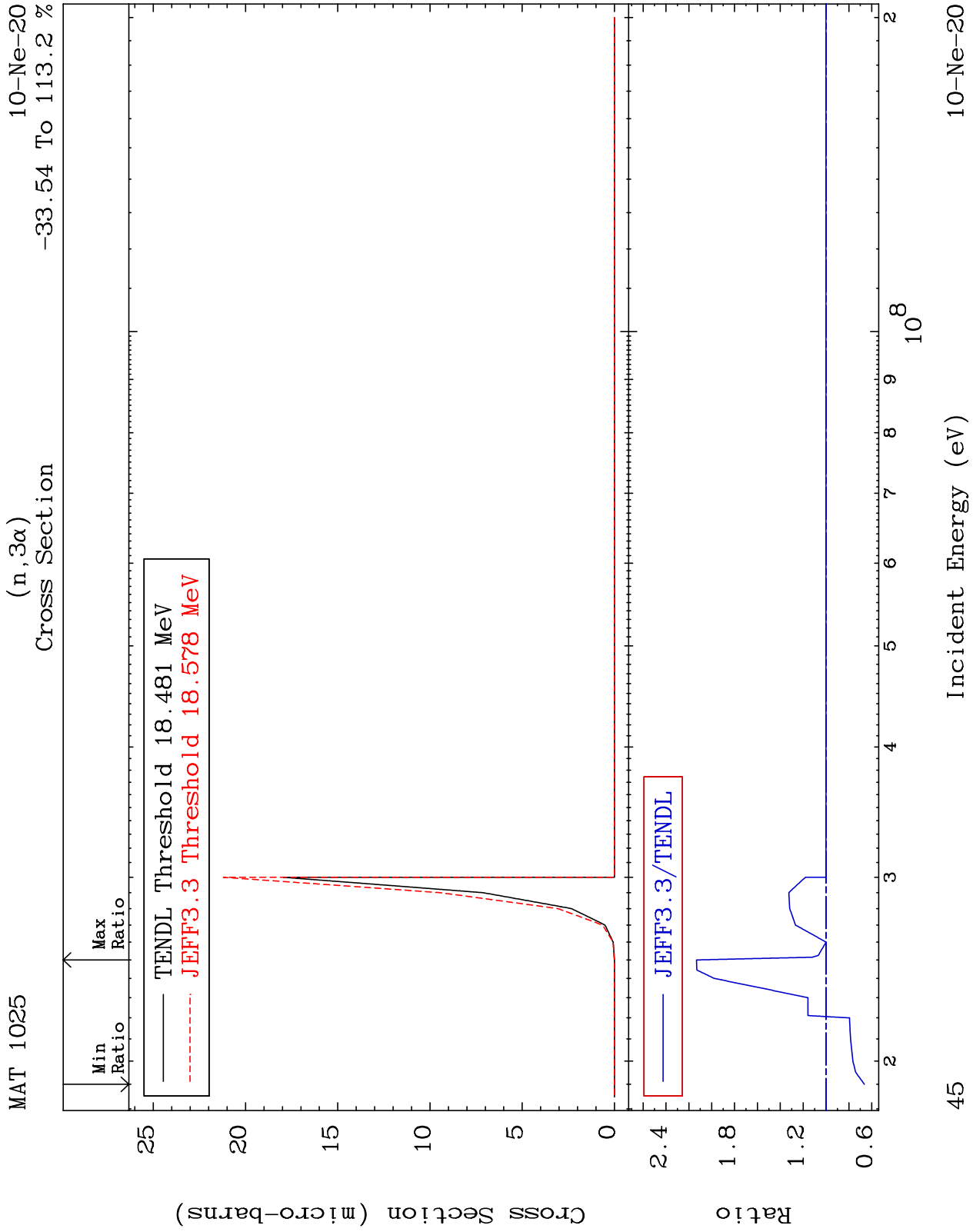
Cross Section

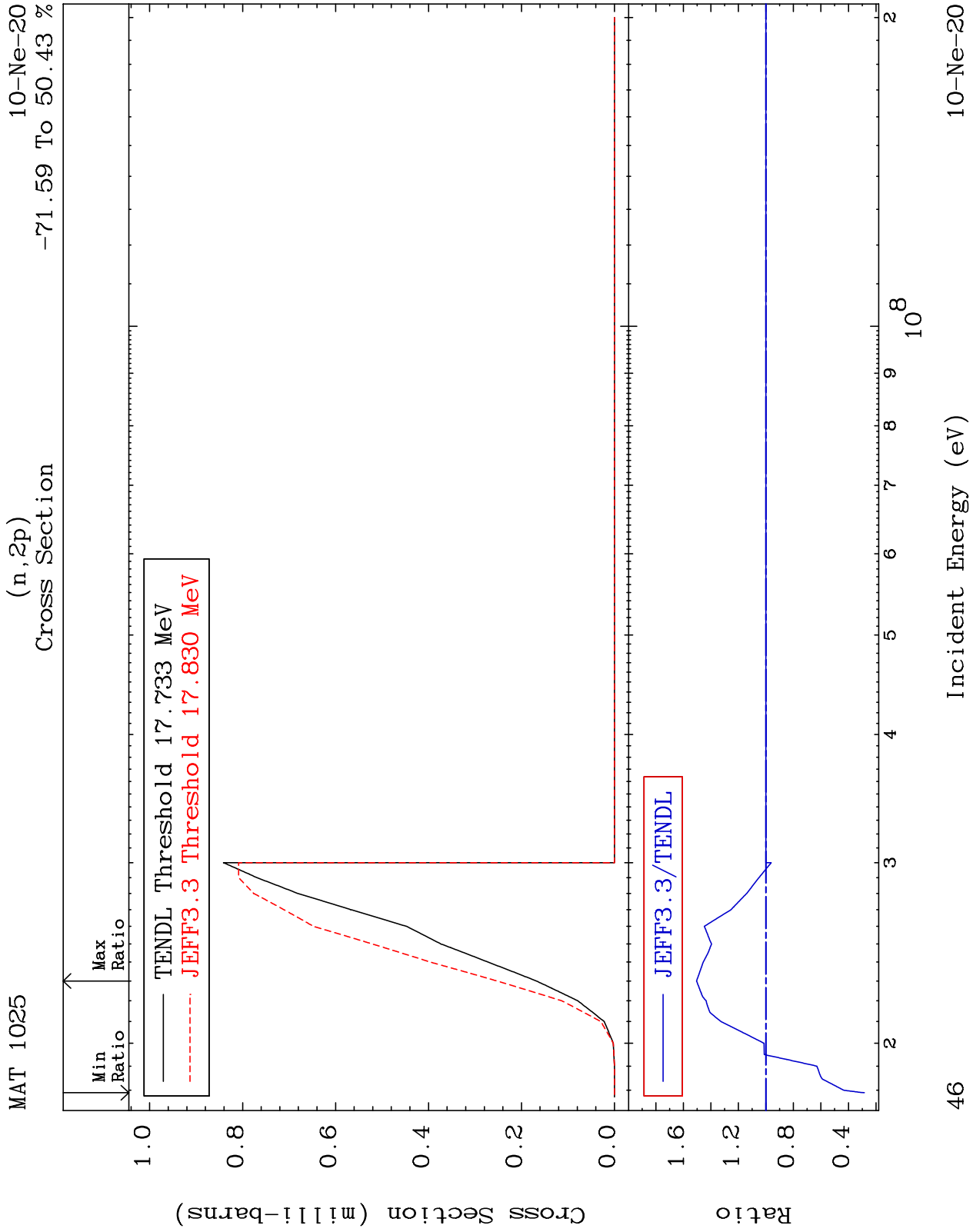
-15.85 To 139.6 %











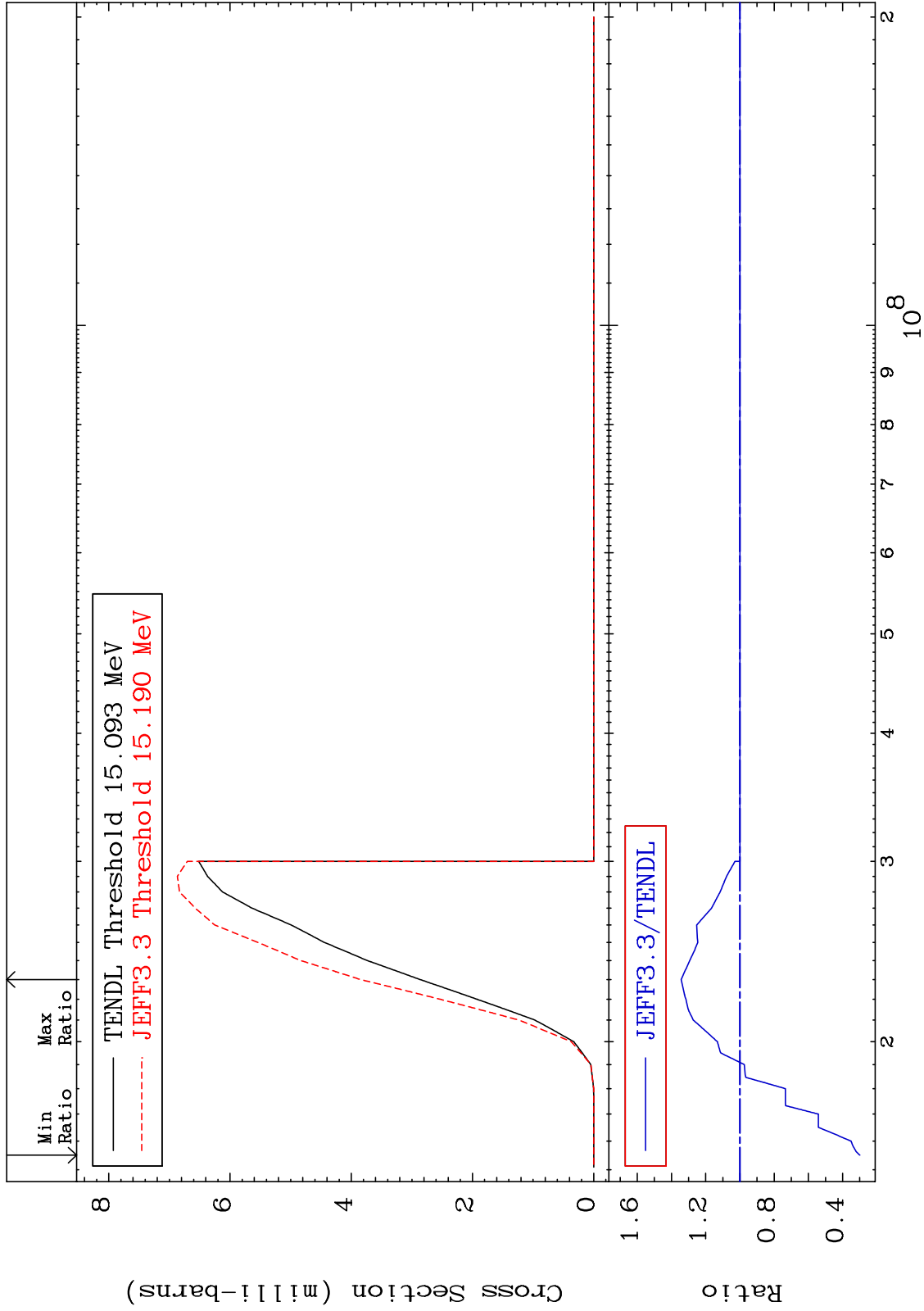
MAT 1025

(n,p) α

10-Ne-20

Cross Section

-70.13 To 34.30 %



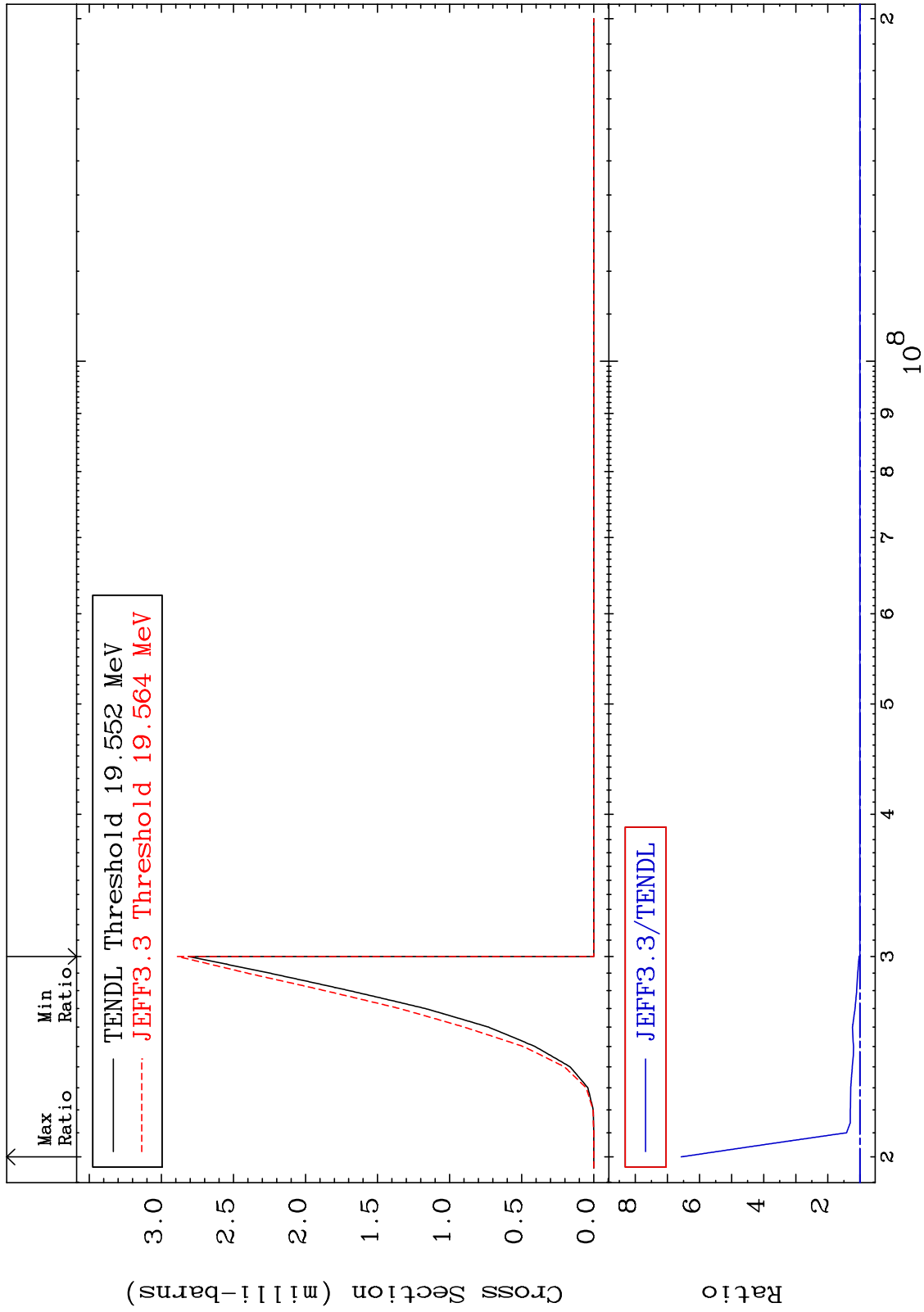
MAT 1025

(n,p) d

10-Ne-20

Cross Section

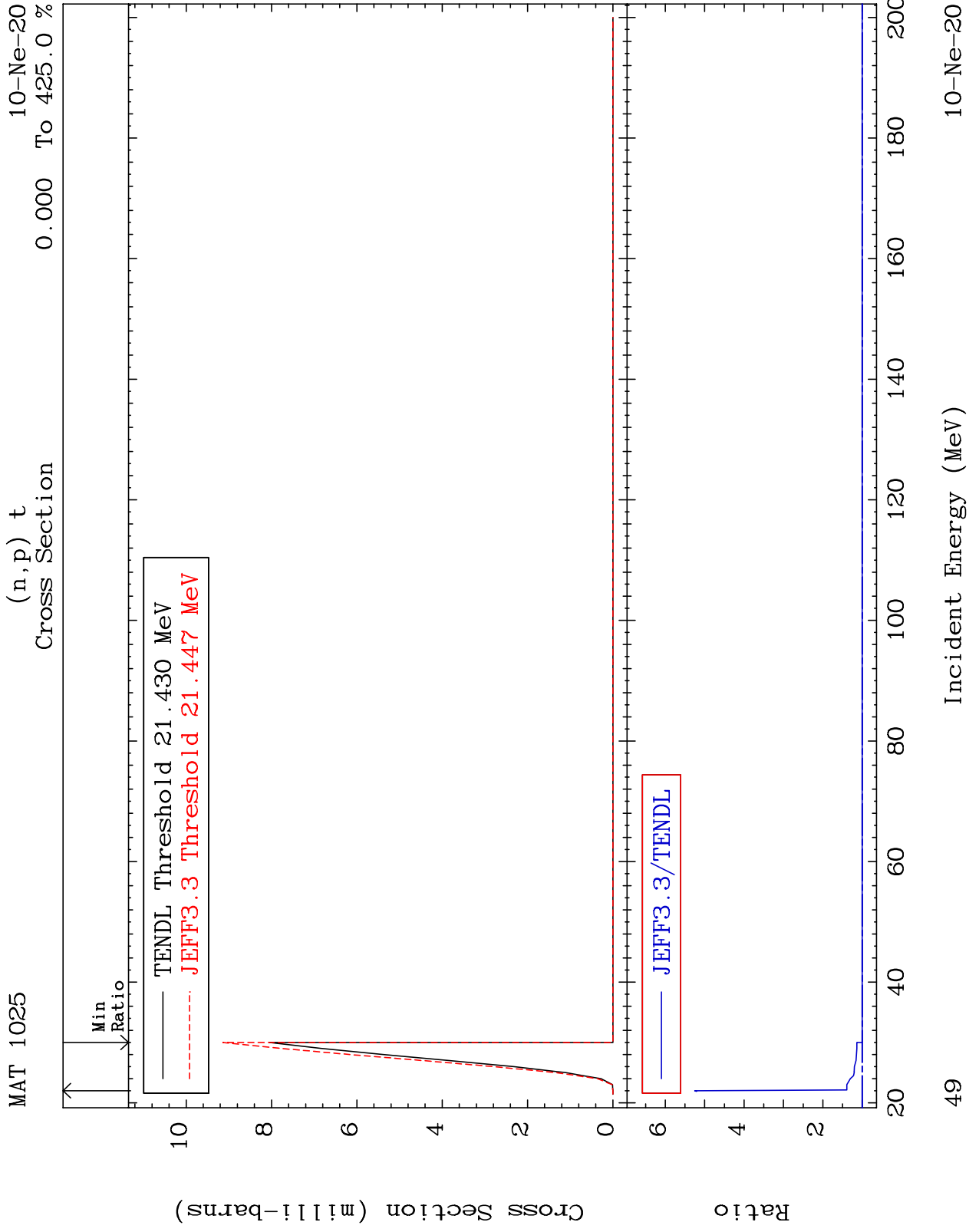
0.000 To 557.1 %



48

10-Ne-20

10-Ne-20



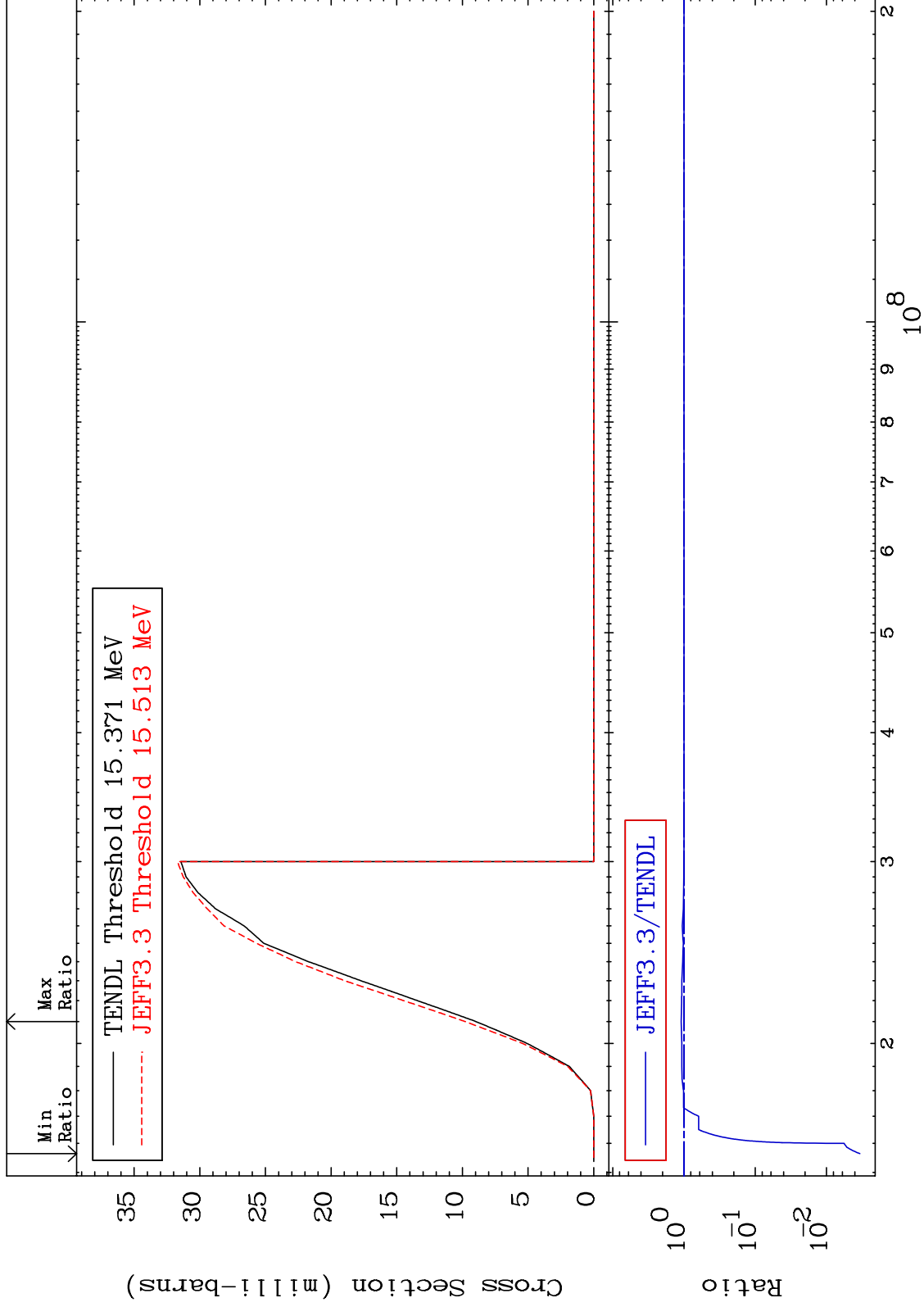
MAT 1025

(n,d) α

10-Ne-20

Cross Section

-99.66 To 9.237 %



50

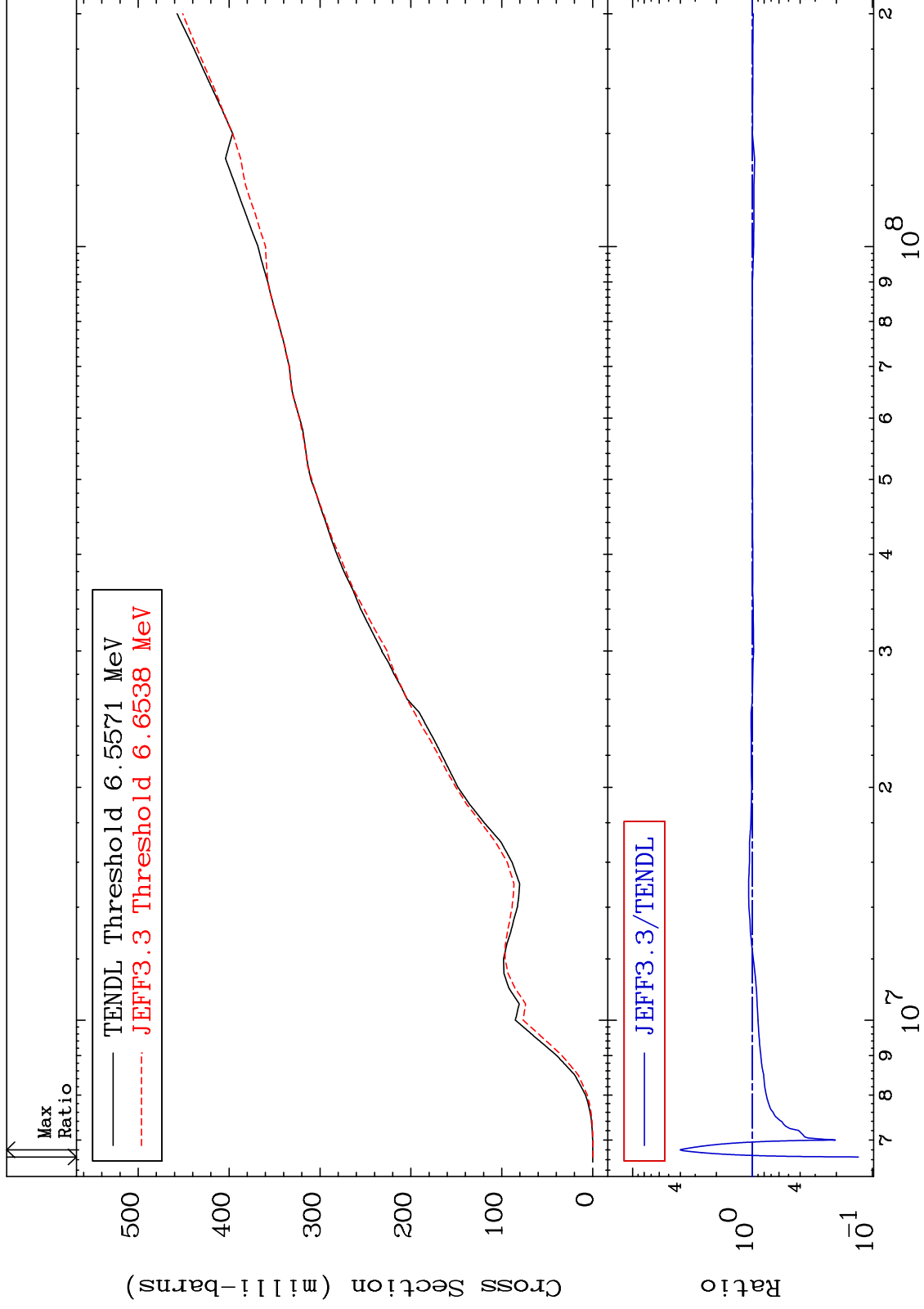
Incident Energy (eV)

10-Ne-20

MAT 1025

Hydrogen Production
Cross Section

10-Ne-20
-86.93 To 302.0 %



51

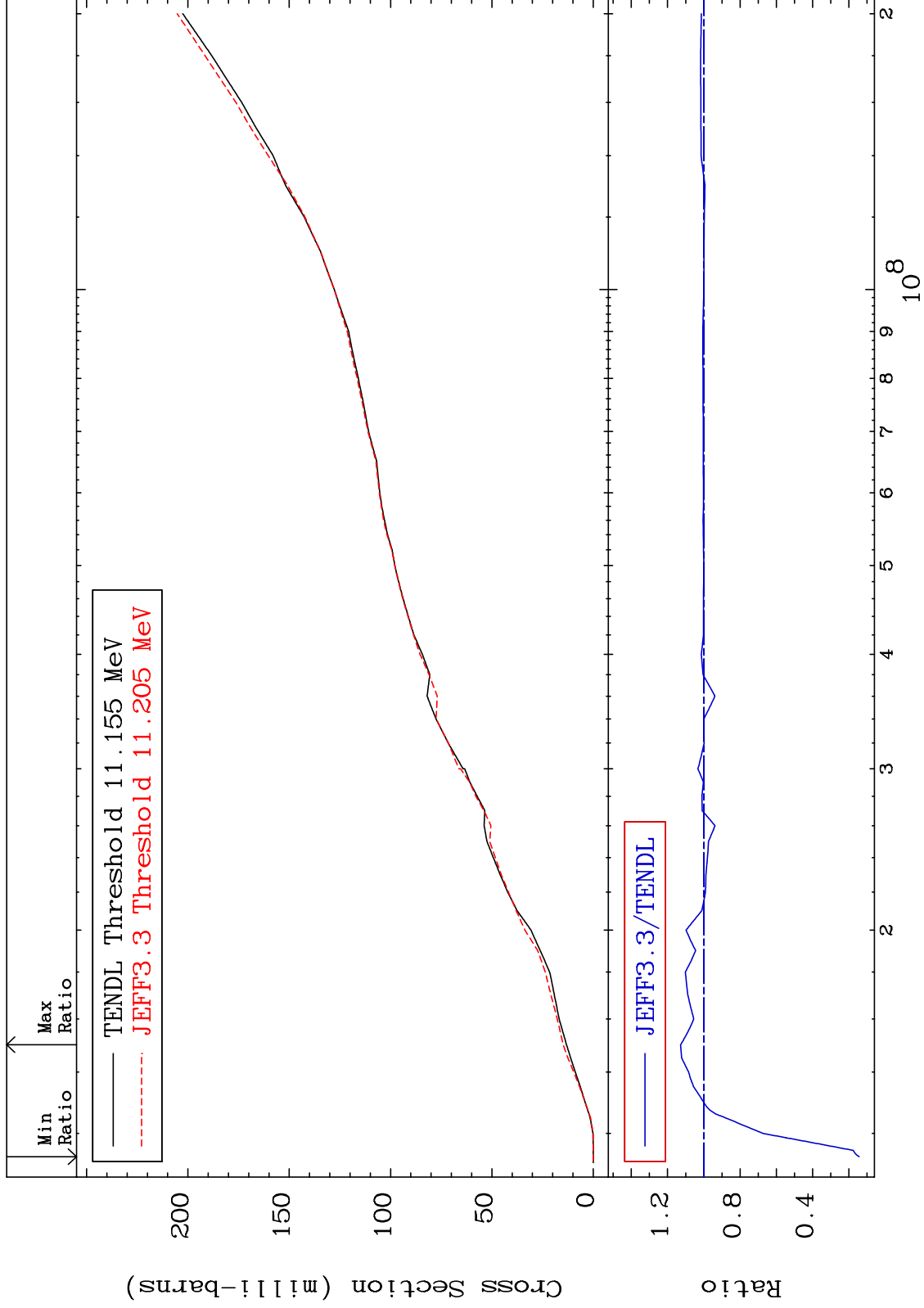
Incident Energy (eV)

10-Ne-20

MAT 1025

Deuterium Production
Cross Section

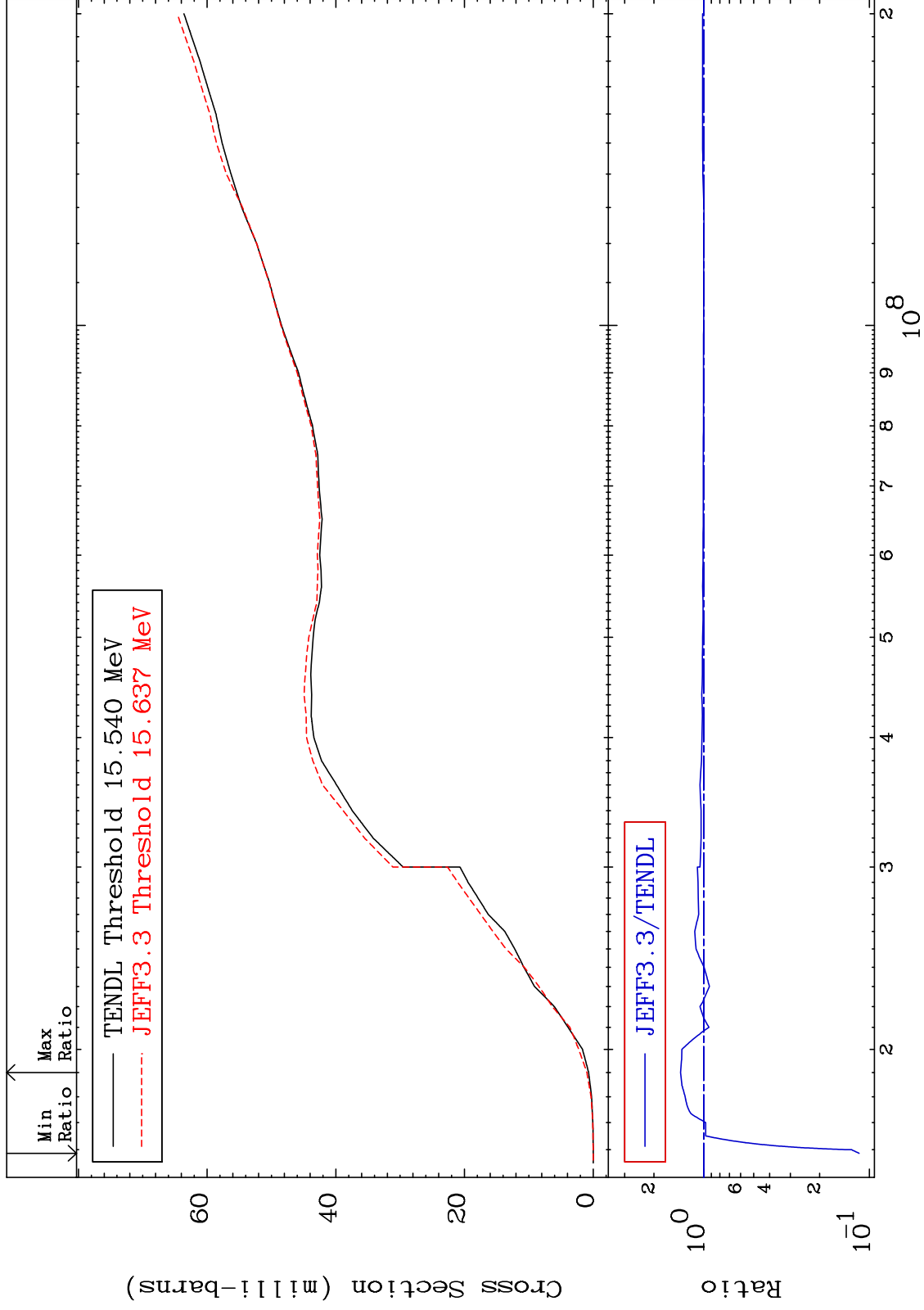
10-Ne-20
-85.67 To 12.79 %



MAT 1025

Tritium Production
Cross Section

10-Ne-20
-88.46 To 37.89 %



53

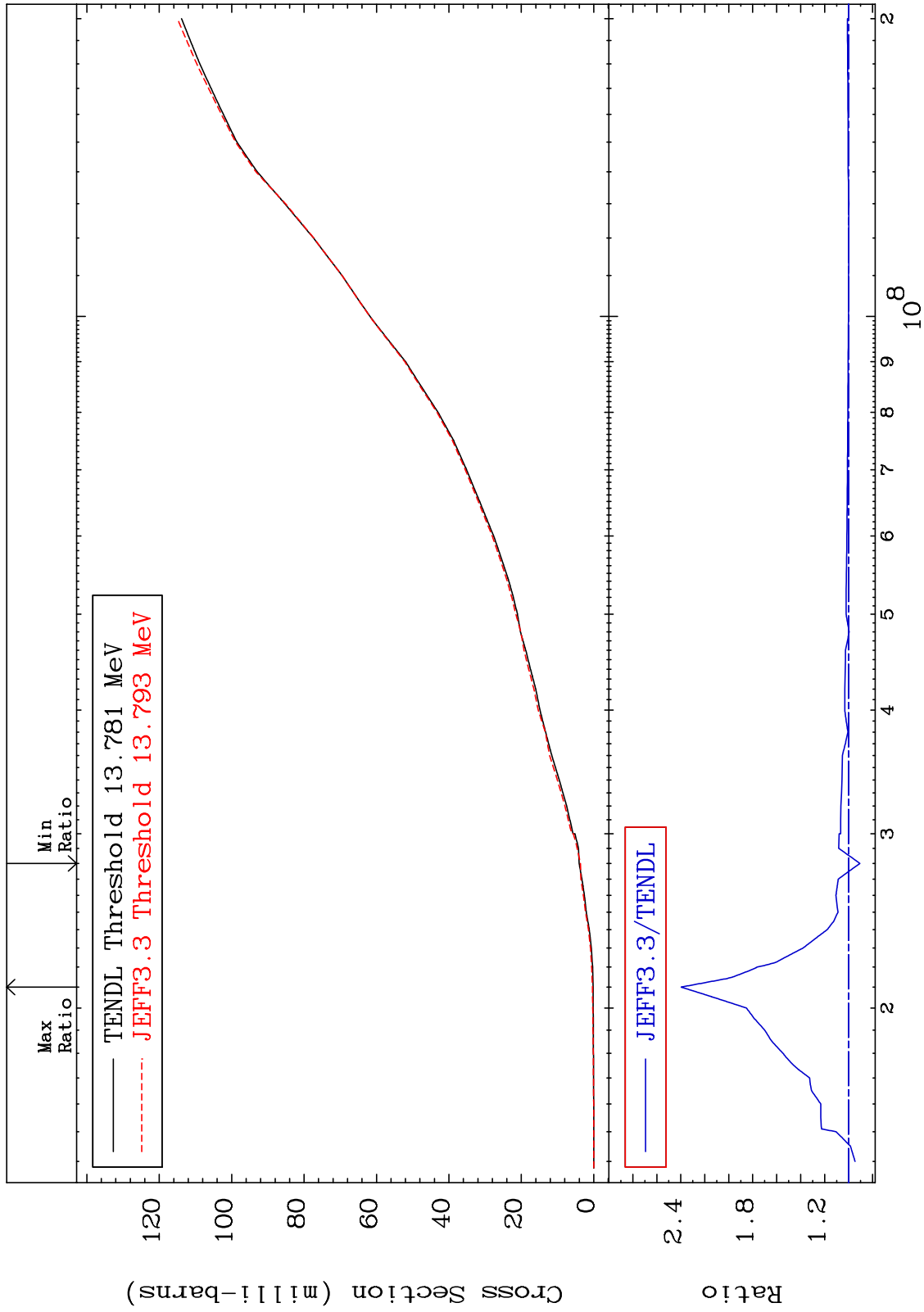
Incident Energy (eV)

10-Ne-20

MAT 1025

He-3 Production
Cross Section

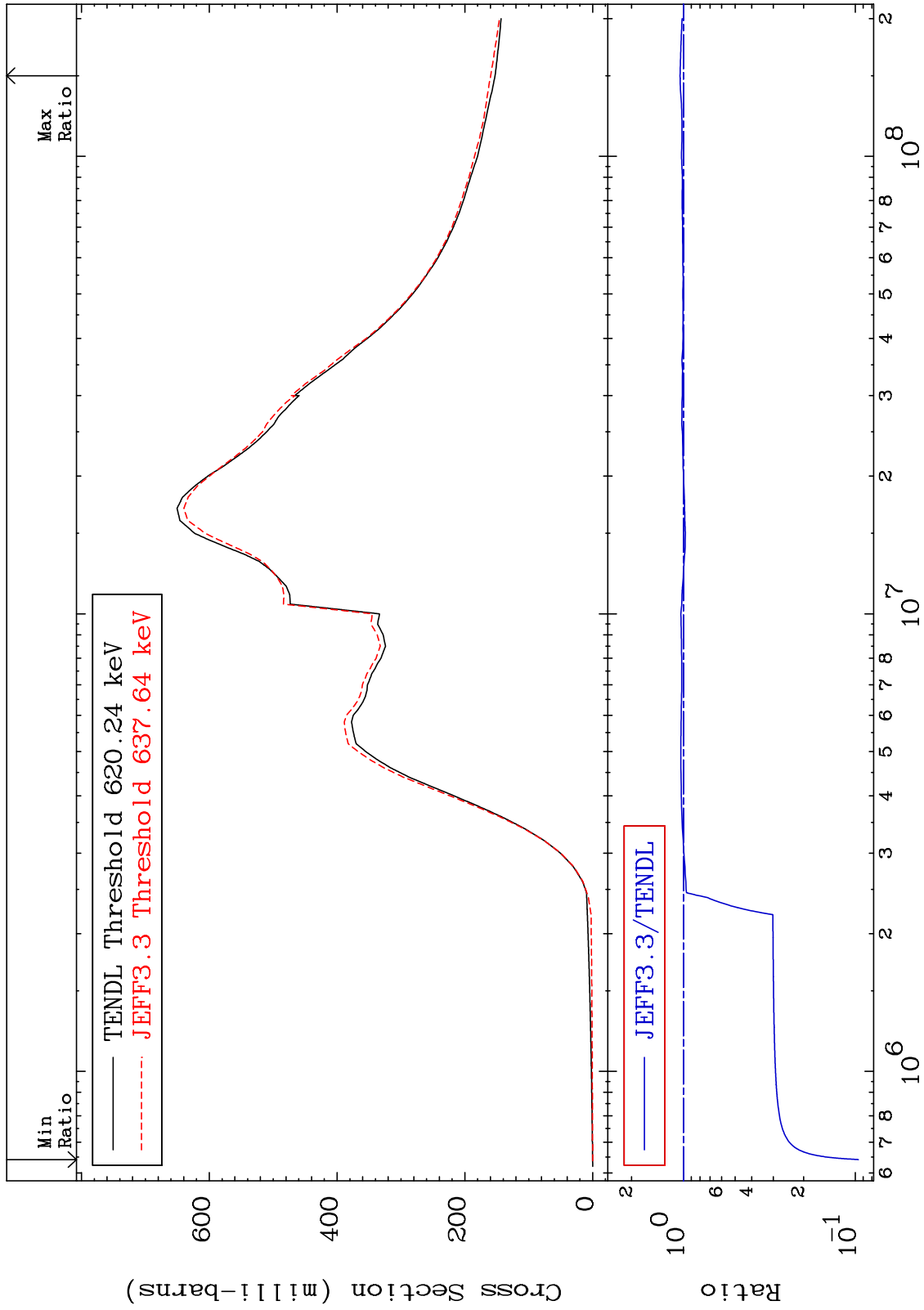
10-Ne-20
-9.445 To 139.6 %



MAT 1025

He-4 Production
Cross Section

10-Ne-20
-90.41 To 4.572 %



Incident Energy (eV)

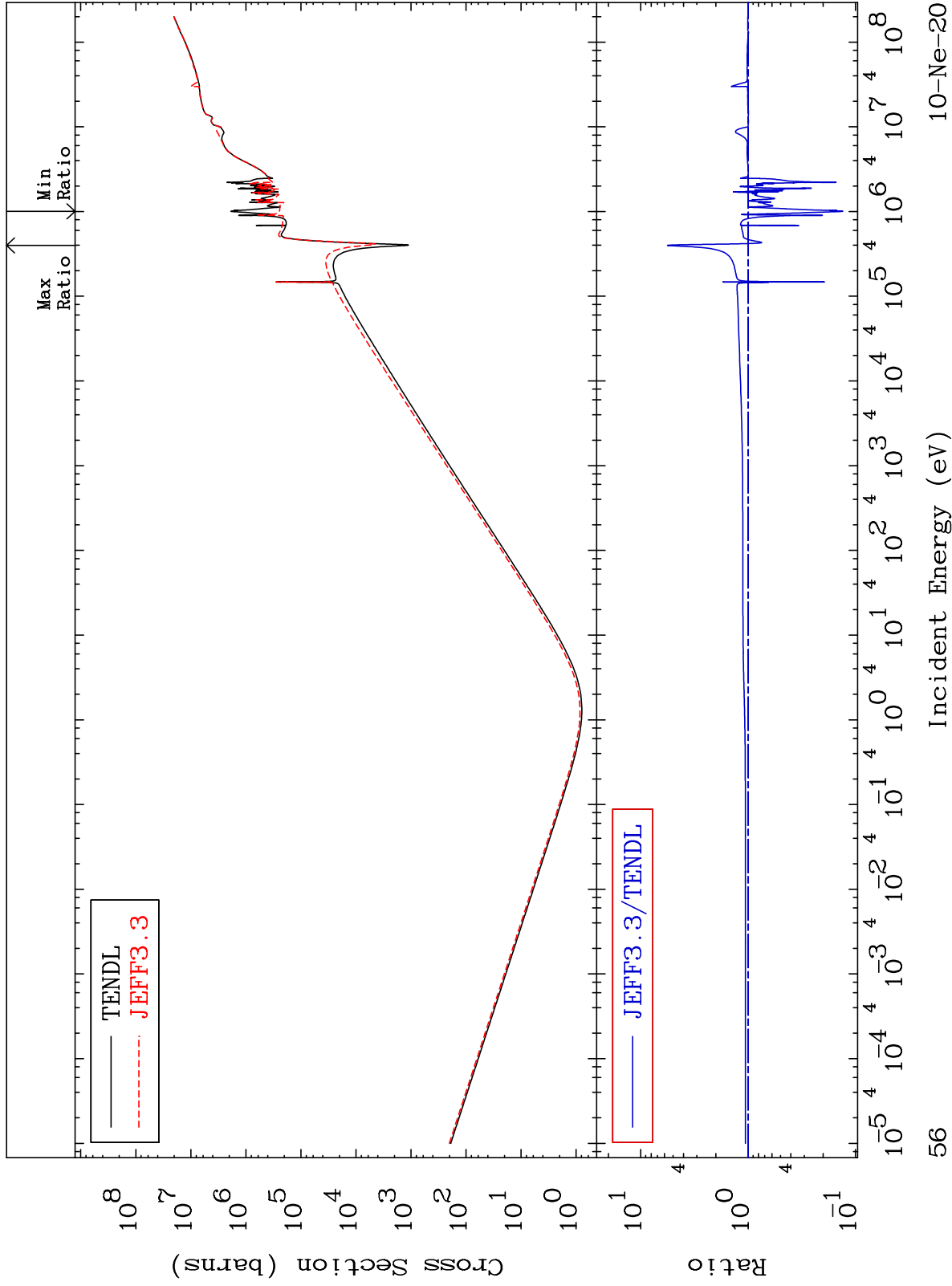
10-Ne-20

55

MAT 1025

Kerma total (eV-barns)
Cross Section

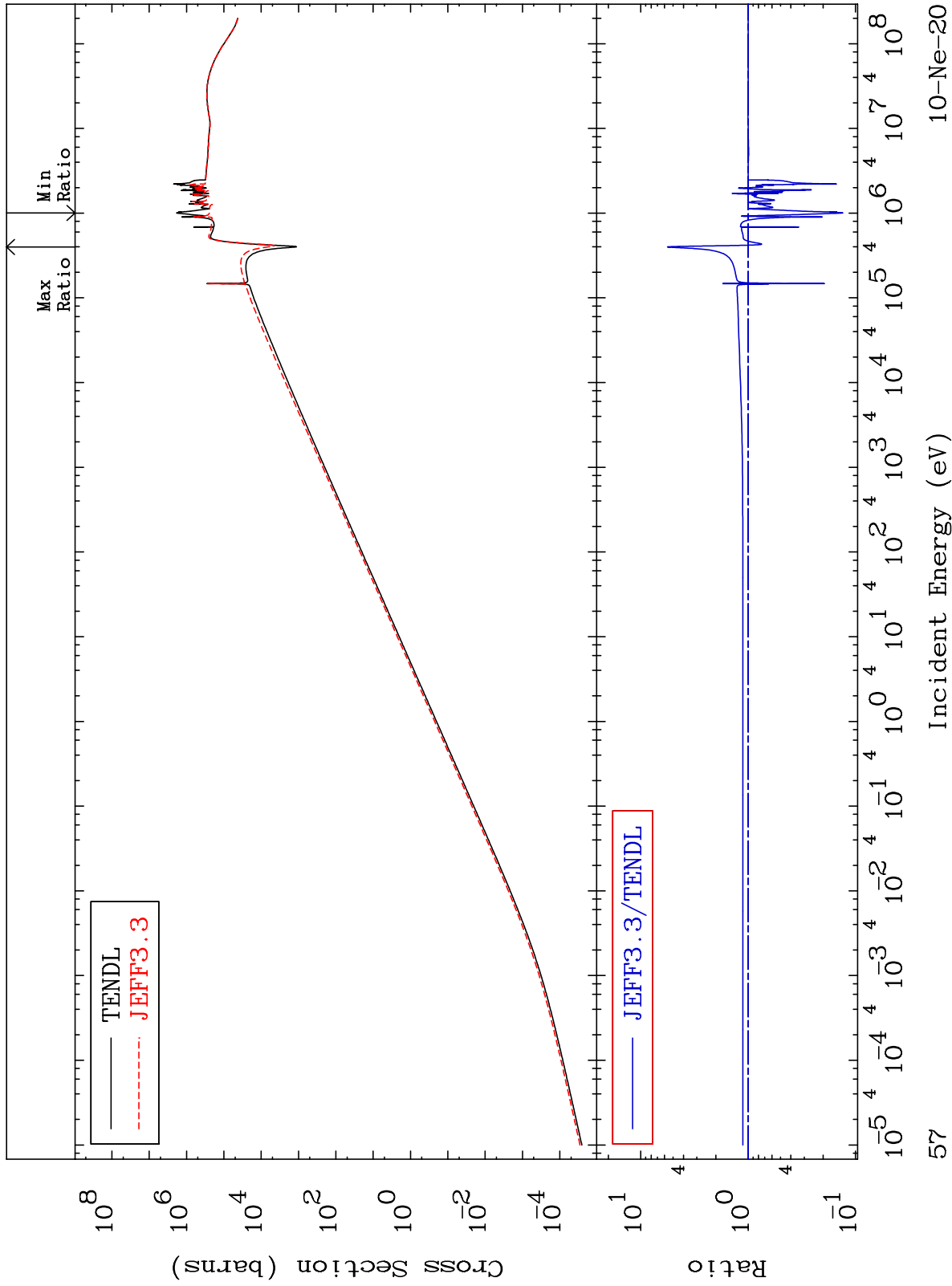
10-Ne-20
-86.82 To 462.4 %



MAT 1025

Kerma elastic
Cross Section

10-Ne-20
-86.83 To 462.4 %



57

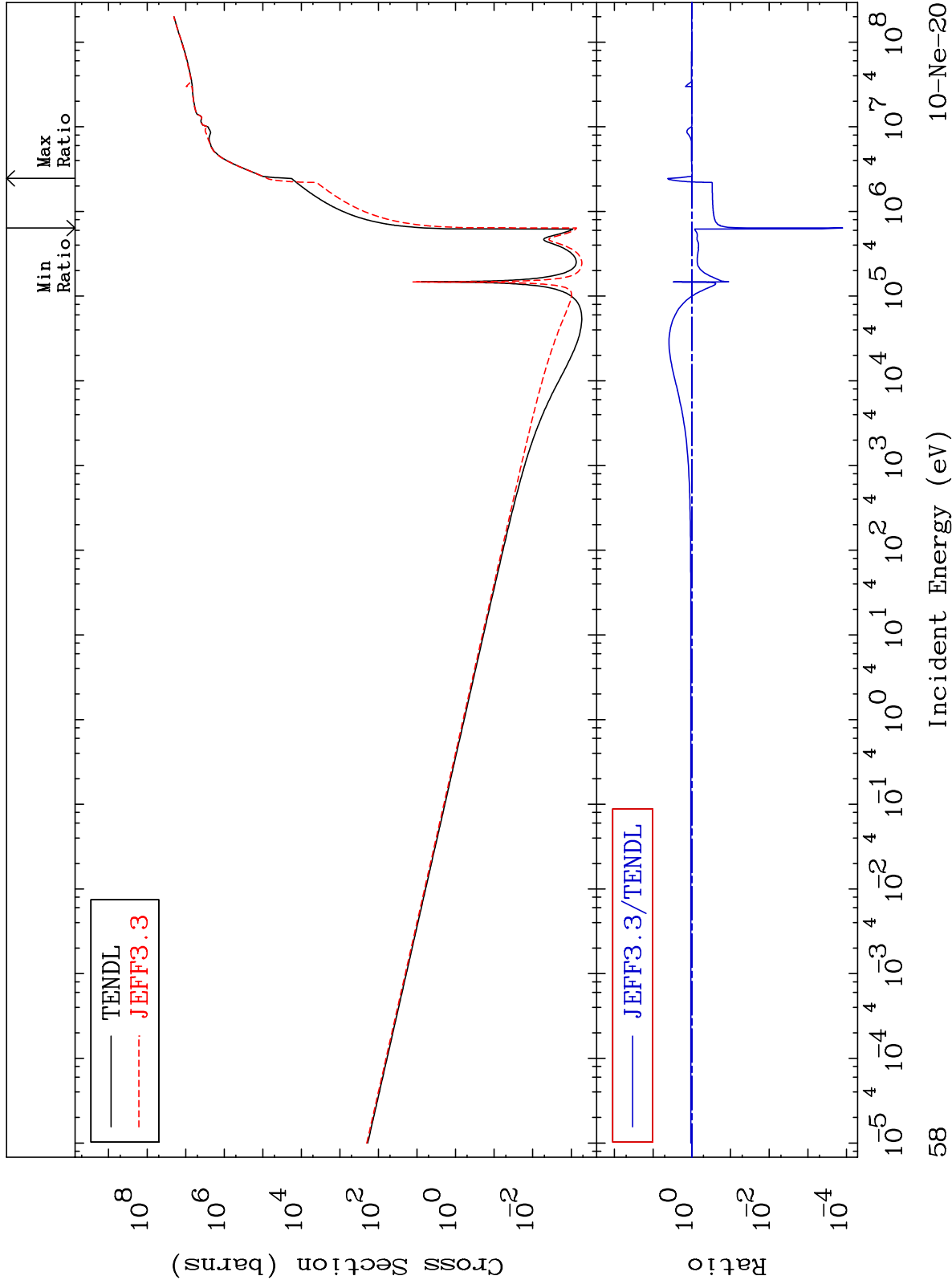
Incident Energy (eV)

10-Ne-20

MAT 1025

Kerma non-elastic (all but mt2)
Cross Section

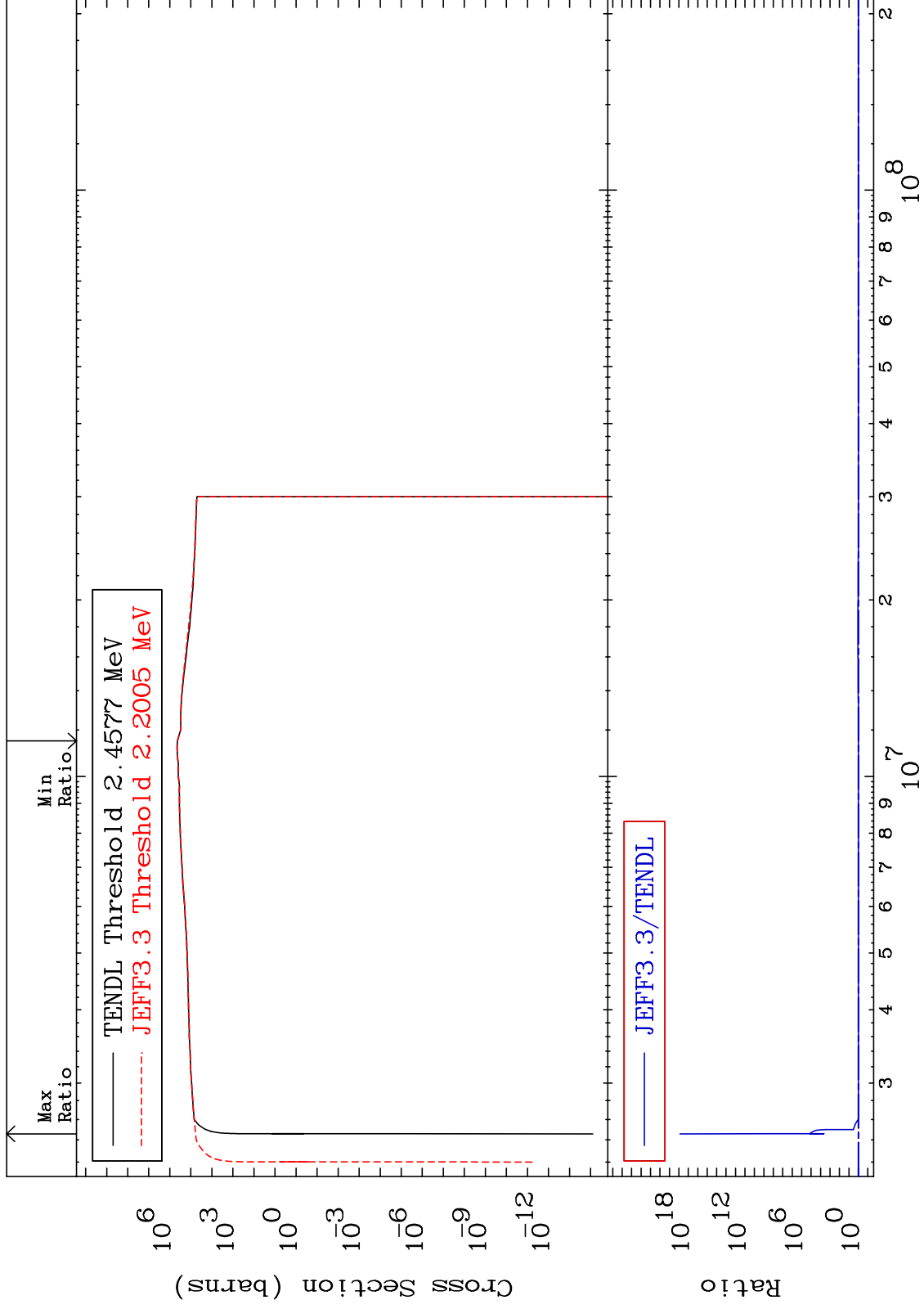
10-Ne-20
-99.99 To 324.5 %



MAT 1025

Kerma inelastic (mt51-91)
Cross Section

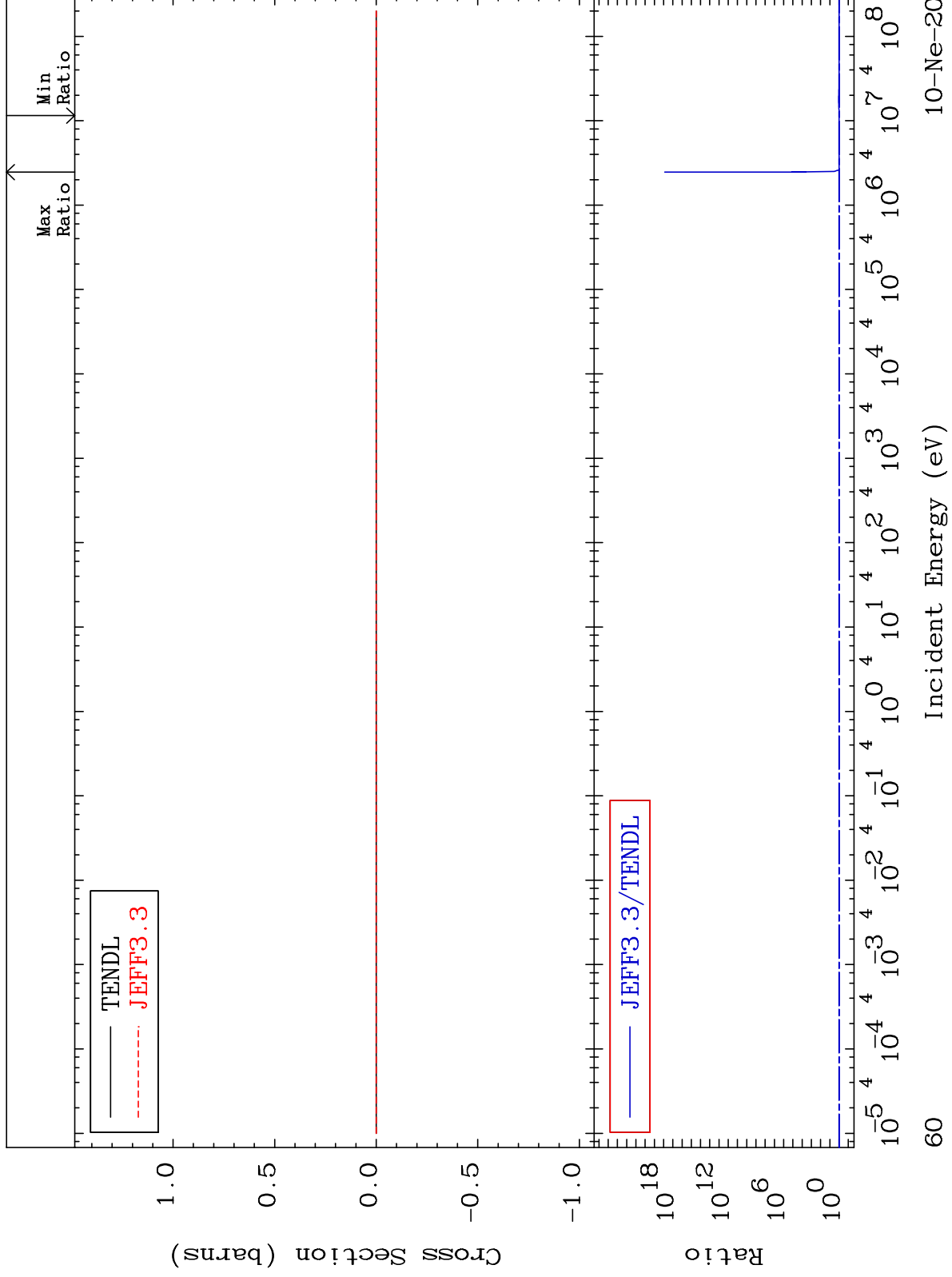
10-Ne-20
-2.118 To 9999. %



MAT 1025

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

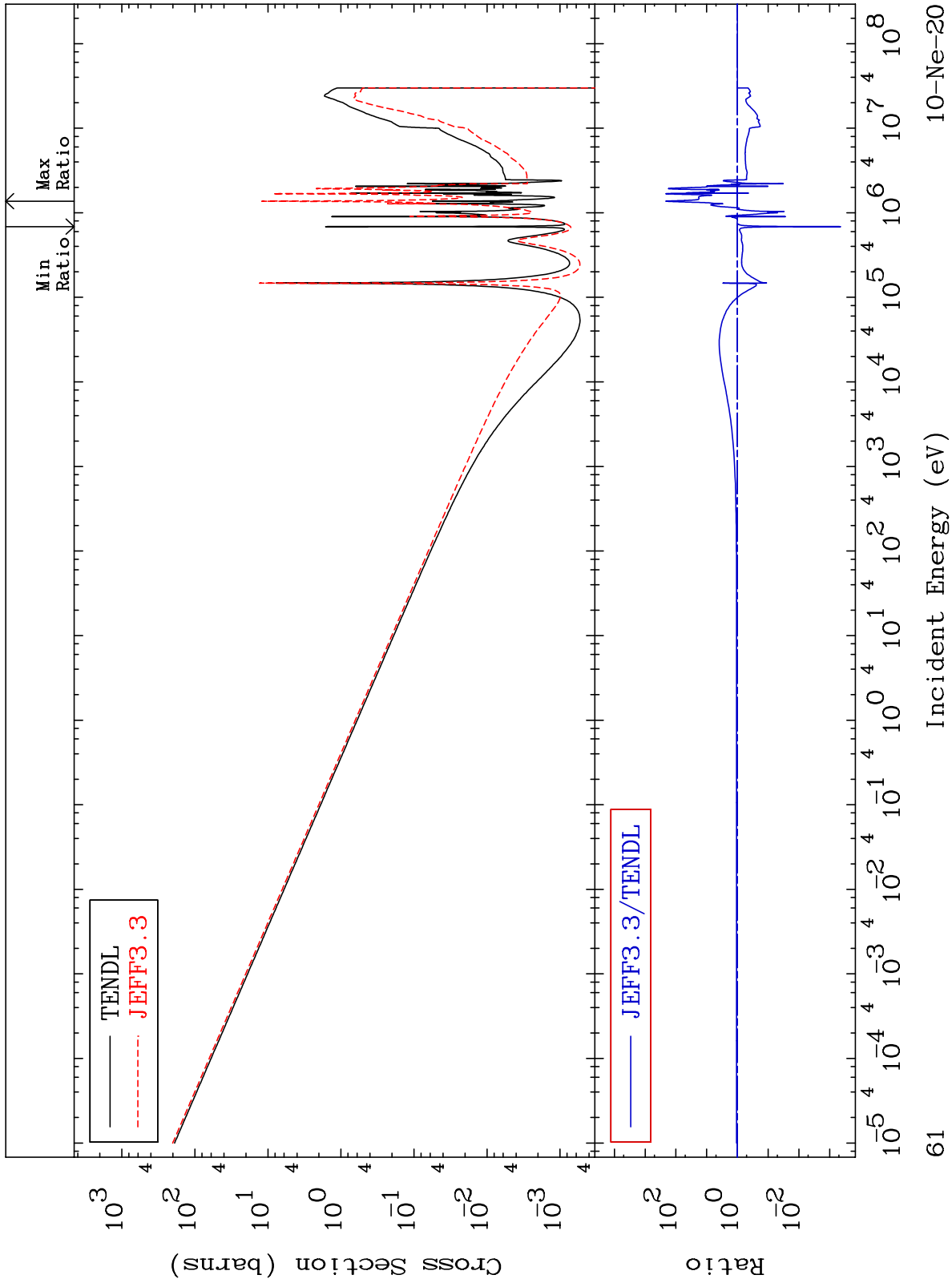
10-Ne-20
-2.118 To 9999. %



MAT 1025

Kerma capture (mt102)
Cross Section

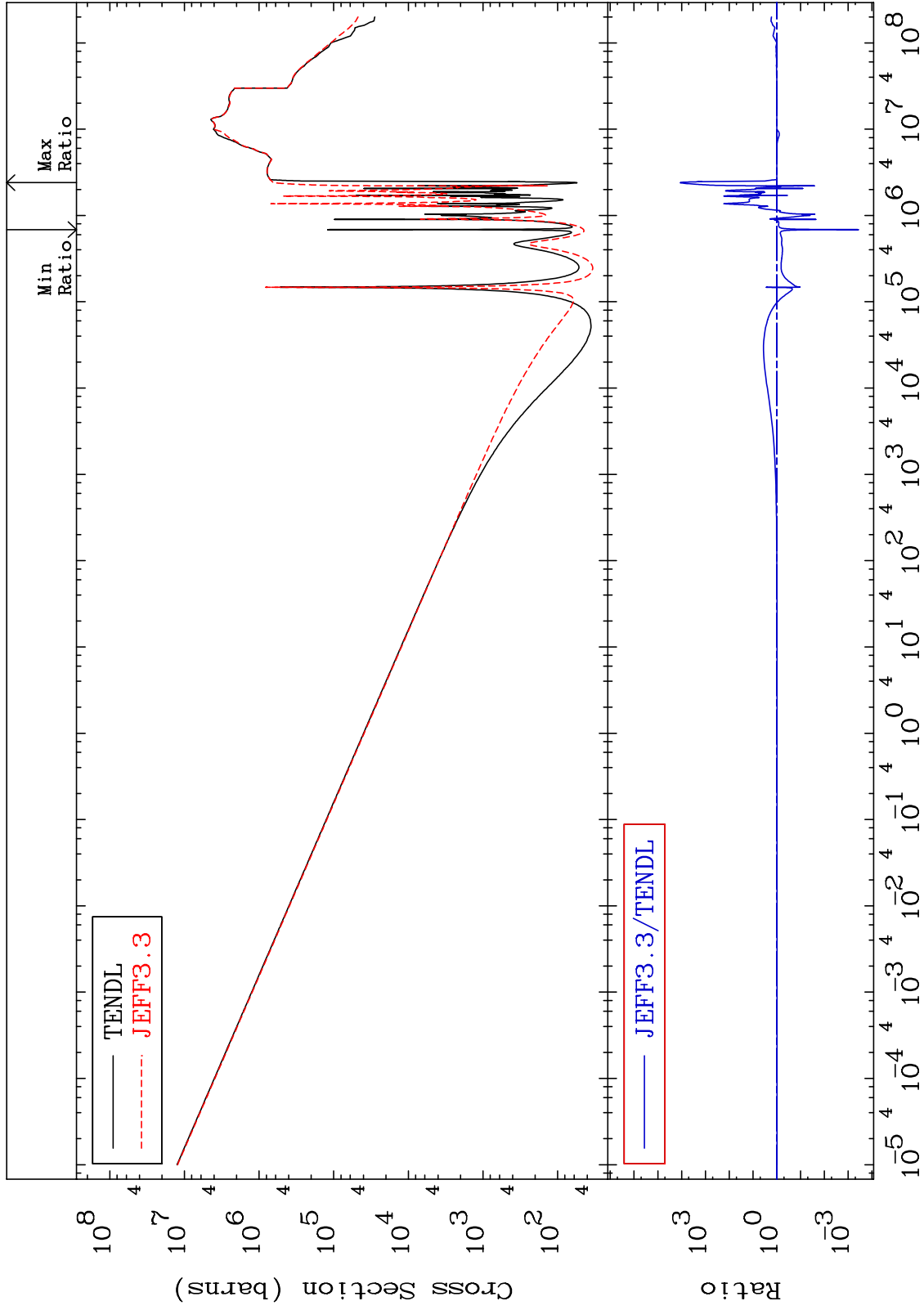
10-Ne-20
-99.96 To 9999. %



MAT 1025

Total photon (eV-barns)
Cross Section

10-Ne-20
-99.96 To 9999. %



62

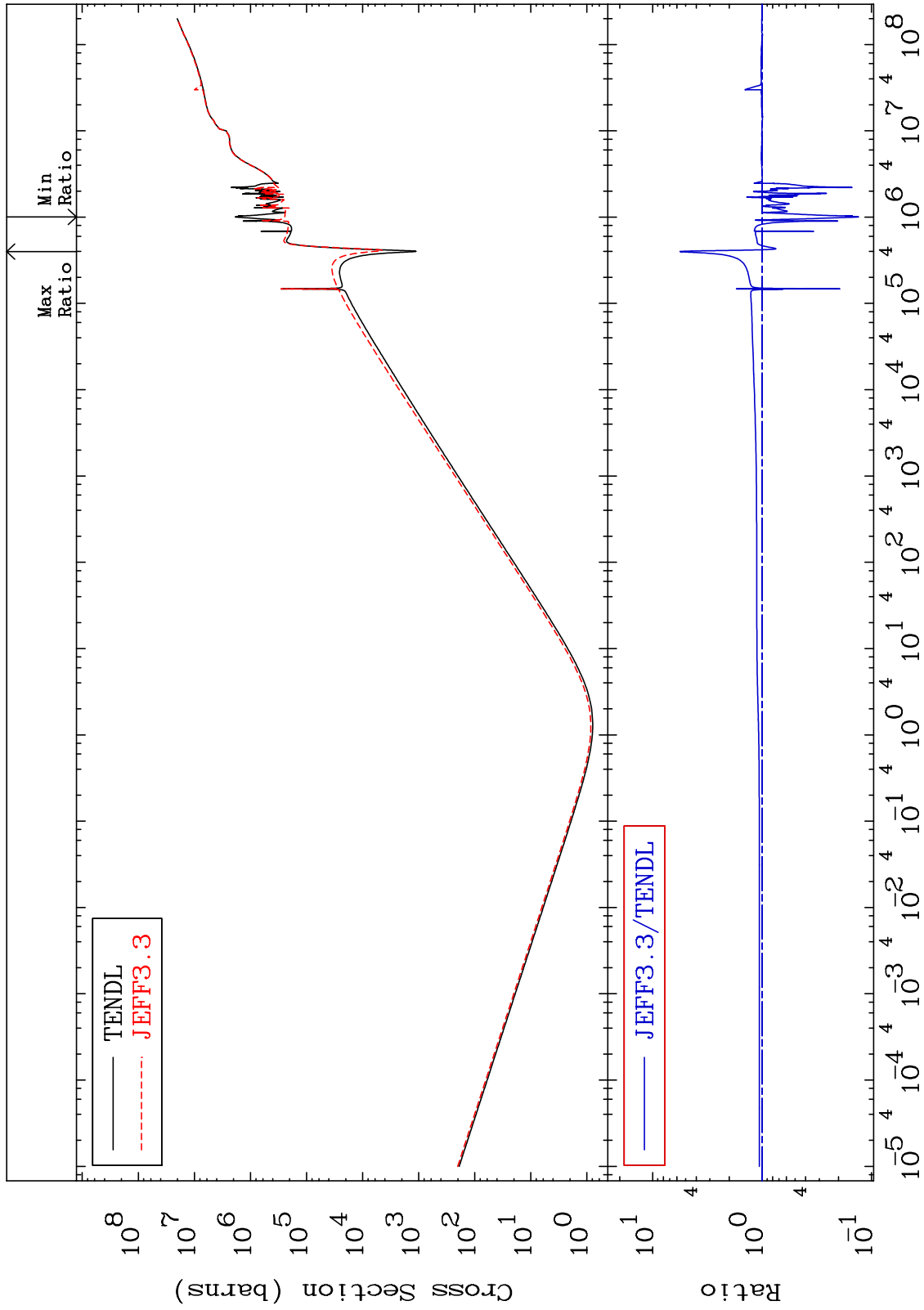
Incident Energy (eV)

10-Ne-20

MAT 1025

Total kinematic kerma (high limit)
Cross Section

10-Ne-20
-86.82 To 462.4 %



63

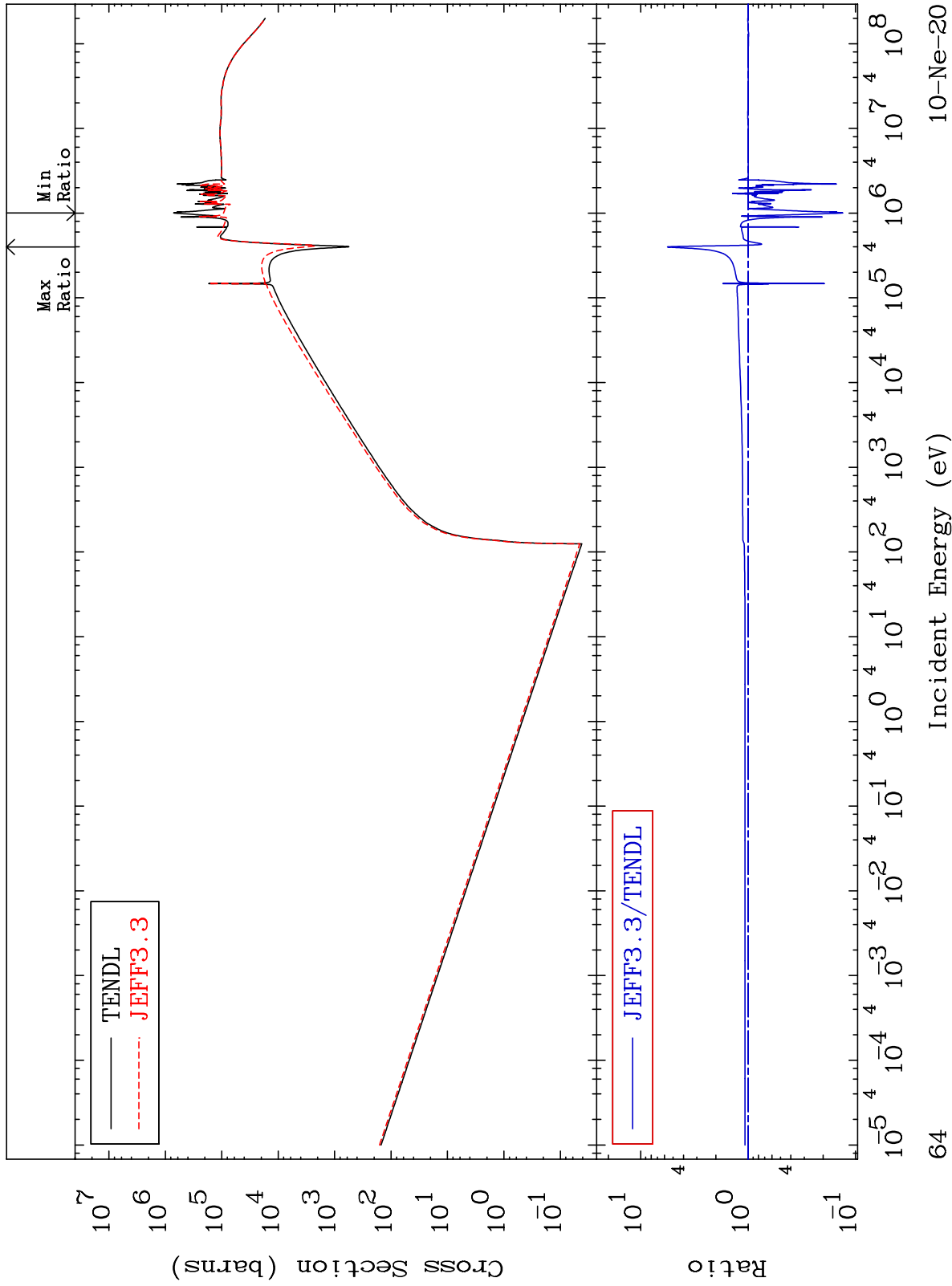
Incident Energy (eV)

10-Ne-20

MAT 1025

Dpa total (eV-barns)
Cross Section

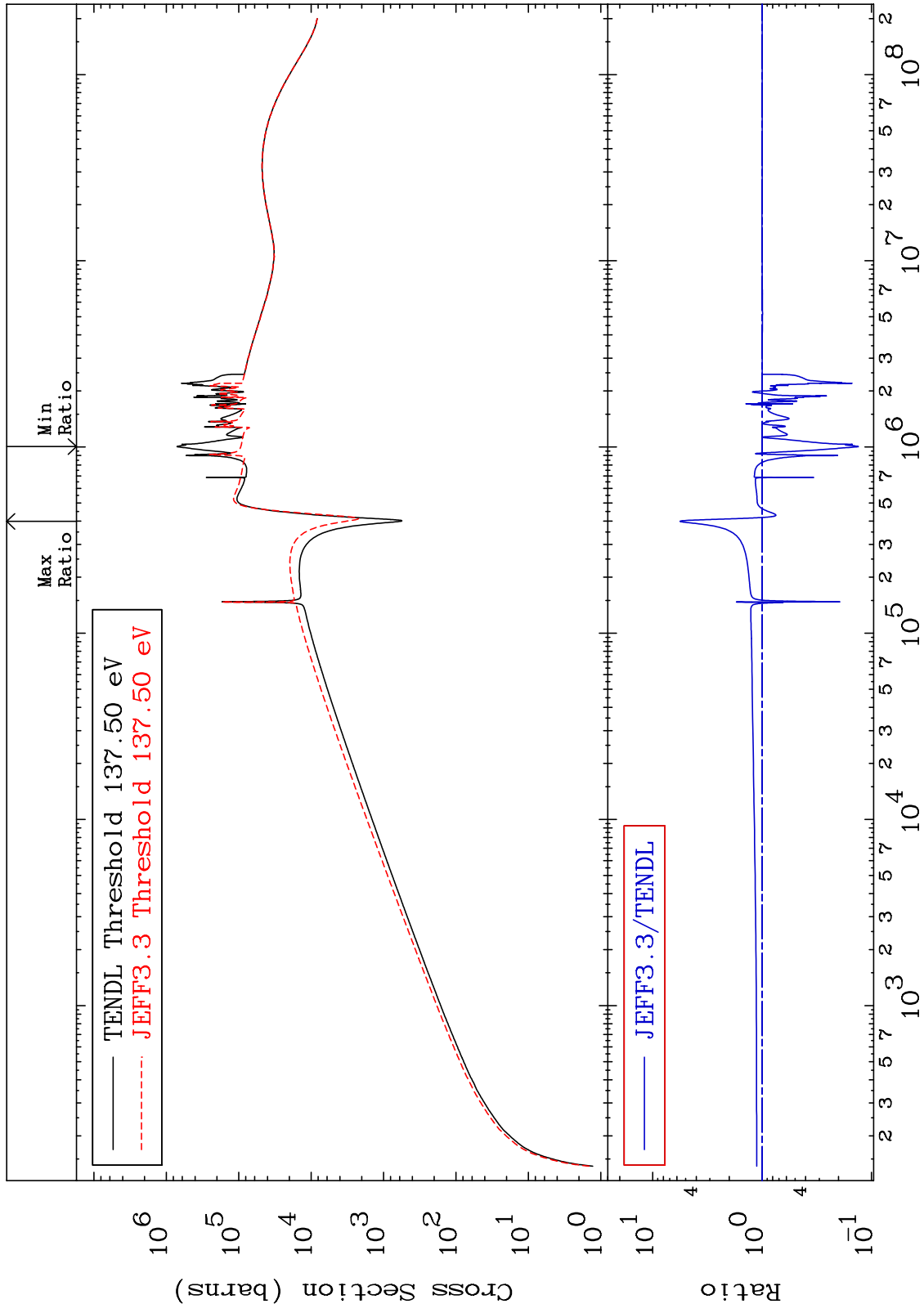
10-Ne-20
-86.83 To 462.4 %



MAT 1025

Dpa elastic (mt2)
Cross Section

10-Ne-20
-86.83 To 462.4 %



65

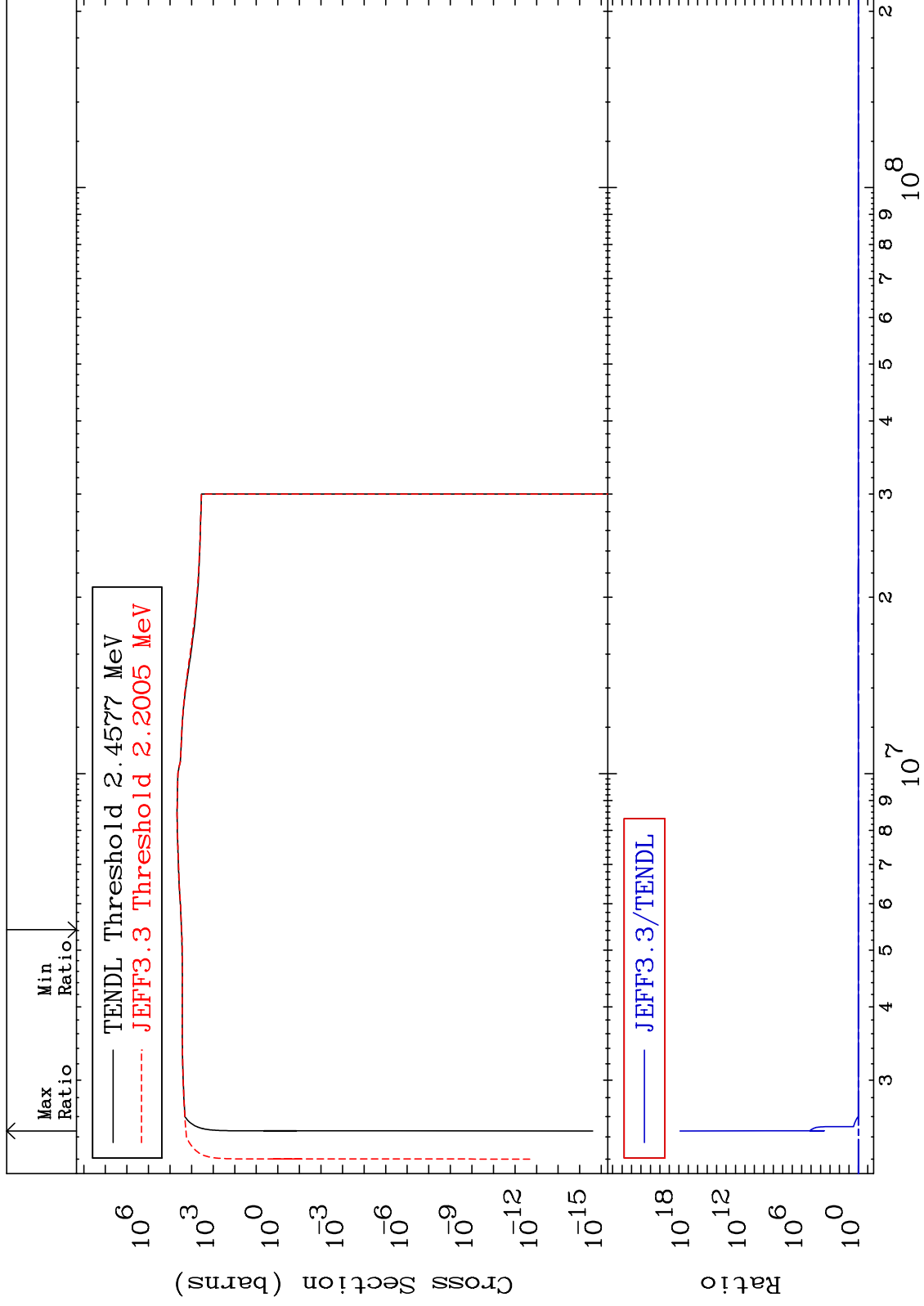
Incident Energy (eV)

10-Ne-20

MAT 1025

Dpa inelastic (mt51-91)
Cross Section

10-Ne-20
-1.511 To 9999. %



MAT 1025

Dpa disappearance (mt102 -120)
Cross Section

10-Ne-20
-99.94 To 293.3 %

