

Program Complot
(Version 2018-1)

by

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Press Mouse Button to Start

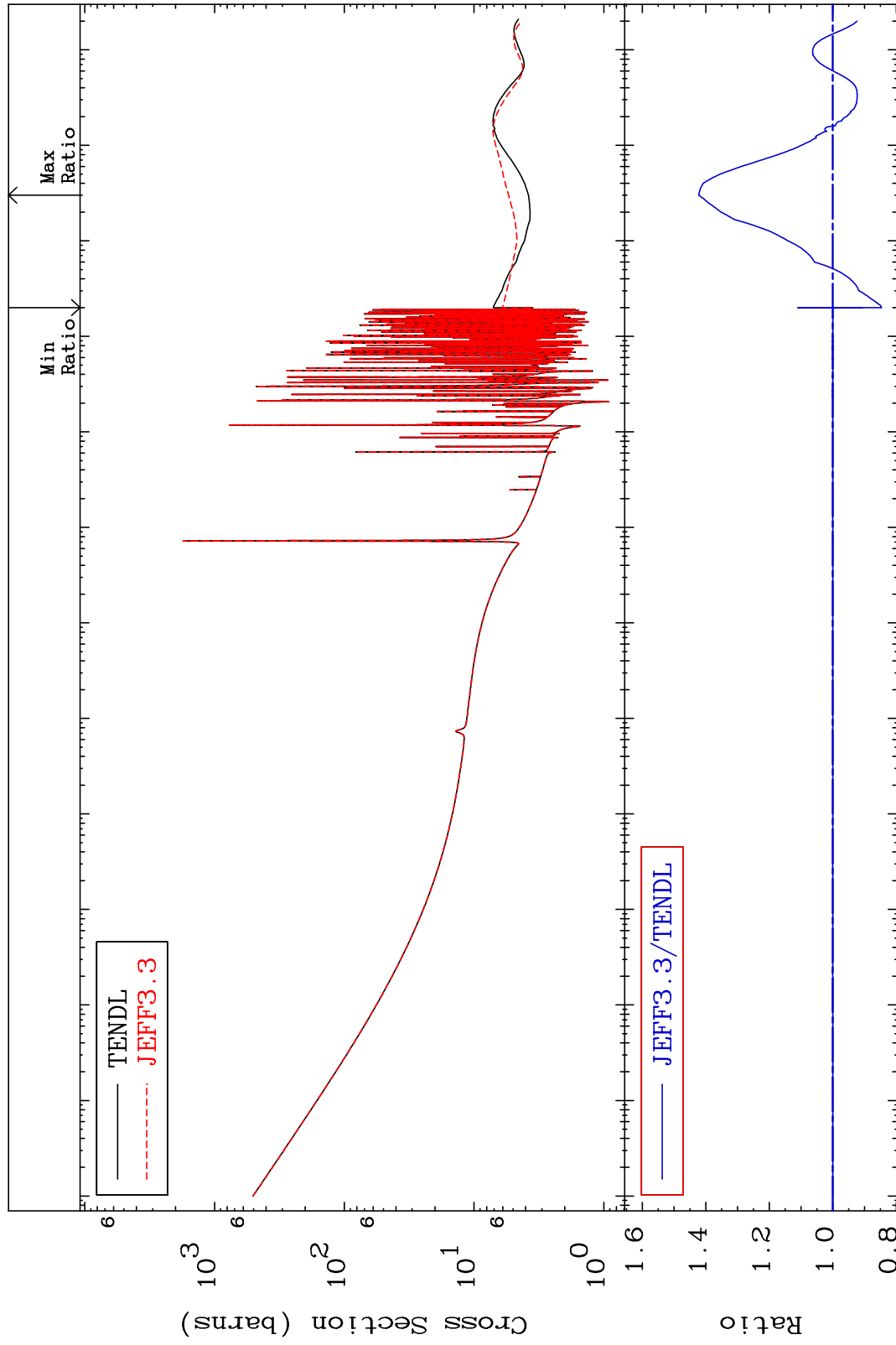
MAT 5728

Total

57-La-139

Cross Section

-15.40 To 42.21 %



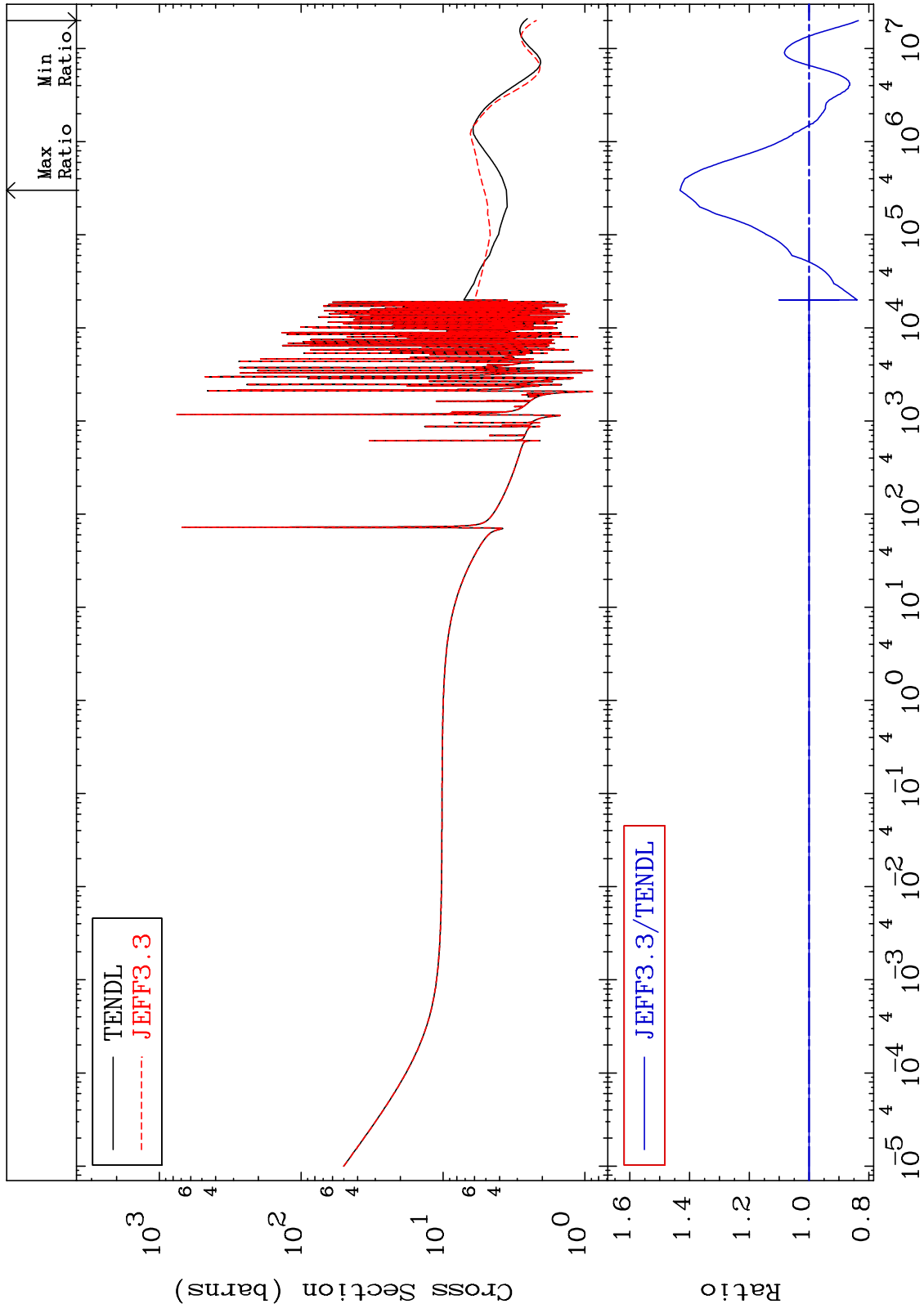
57-La-139

57-La-139

MAT 5728

Elastic
Cross Section

57-La-139
-16.49 To 43.21 %



Incident Energy (eV)

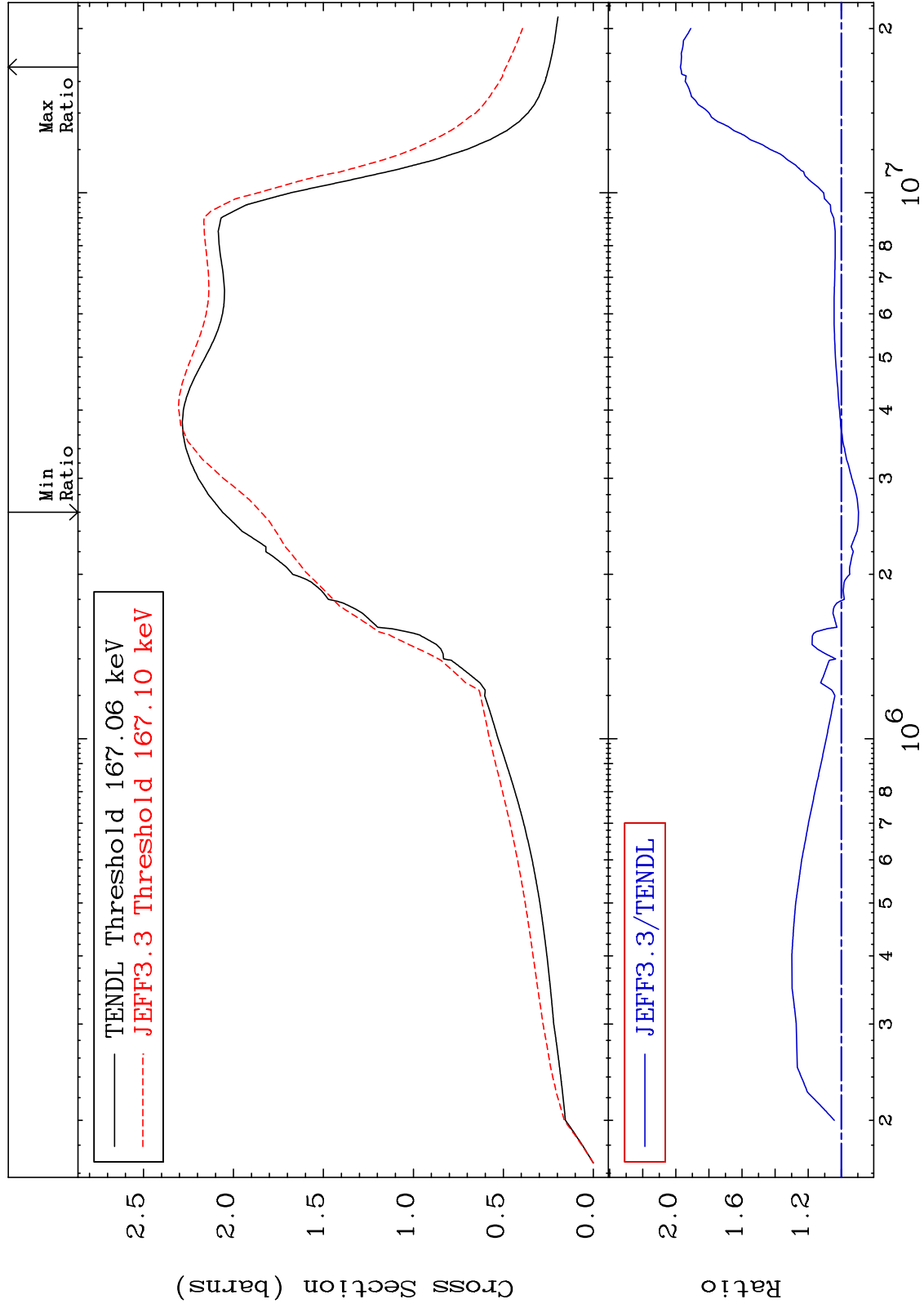
57-La-139

2

MAT 5728

Inelastic
Cross Section

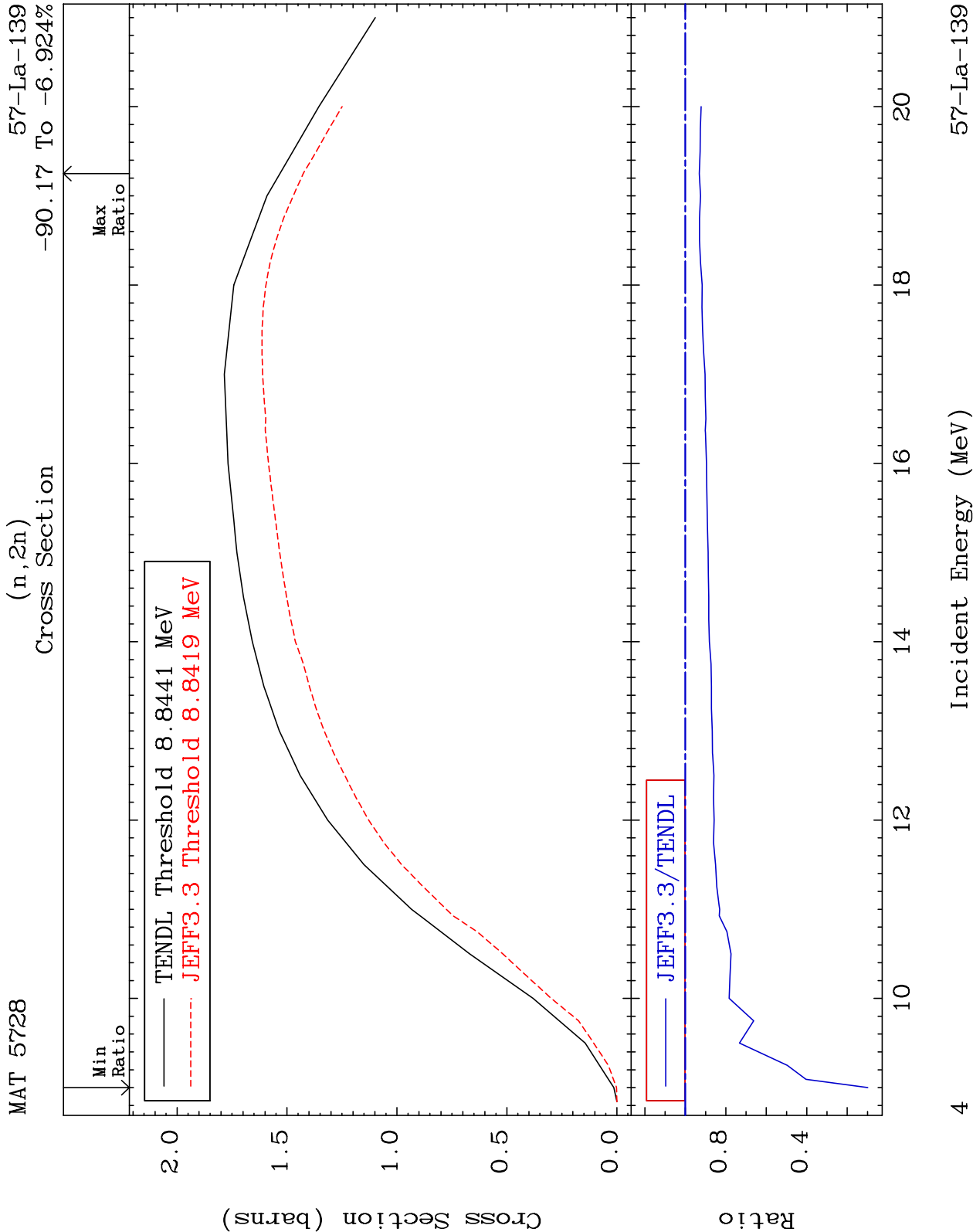
57-La-139
-10.41 To 97.21 %



3

Incident Energy (eV)

57-La-139



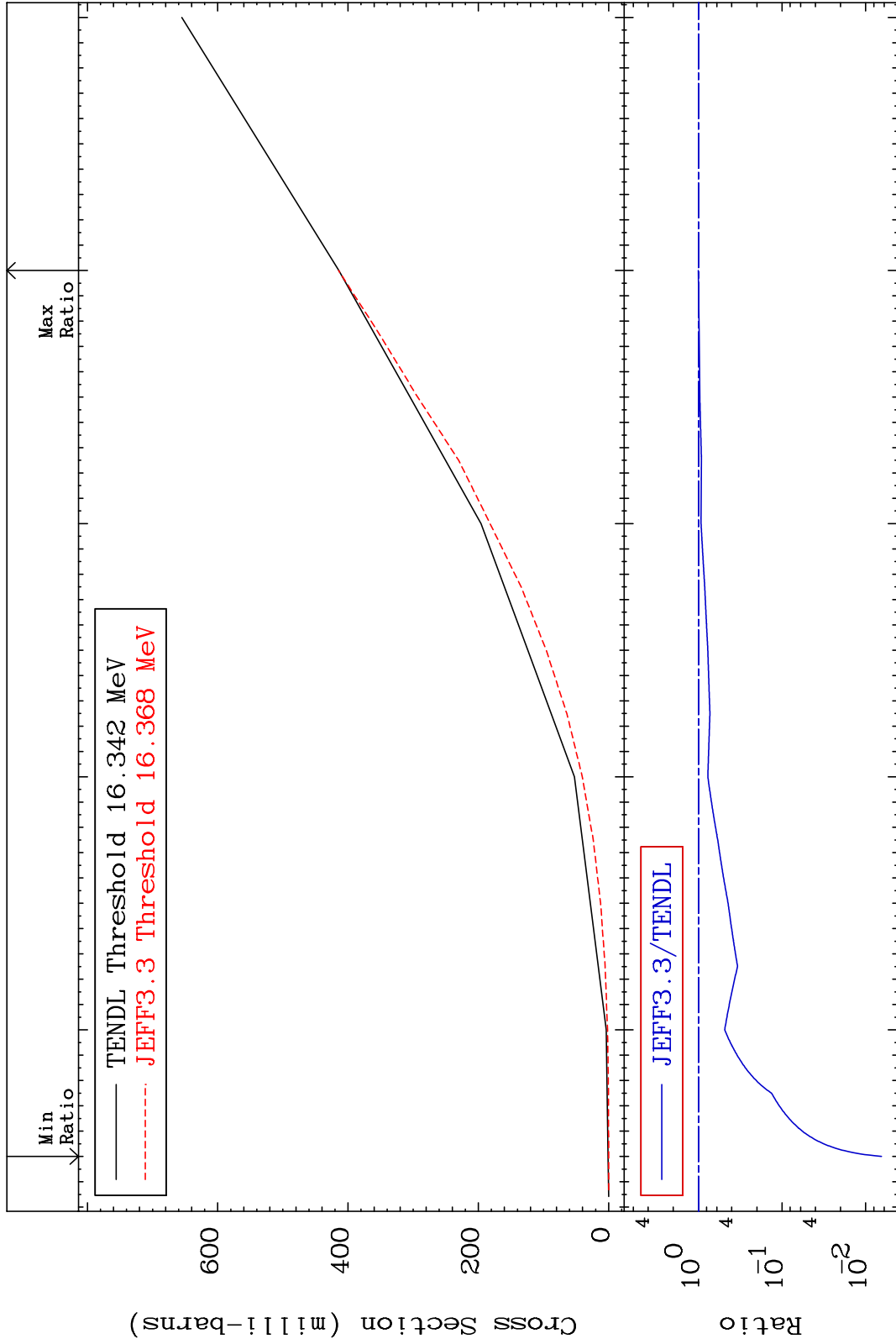
MAT 5728

(n, 3n)

57-La-139

Cross Section

-99.35 To 0.129 %



17 18 19 20 21

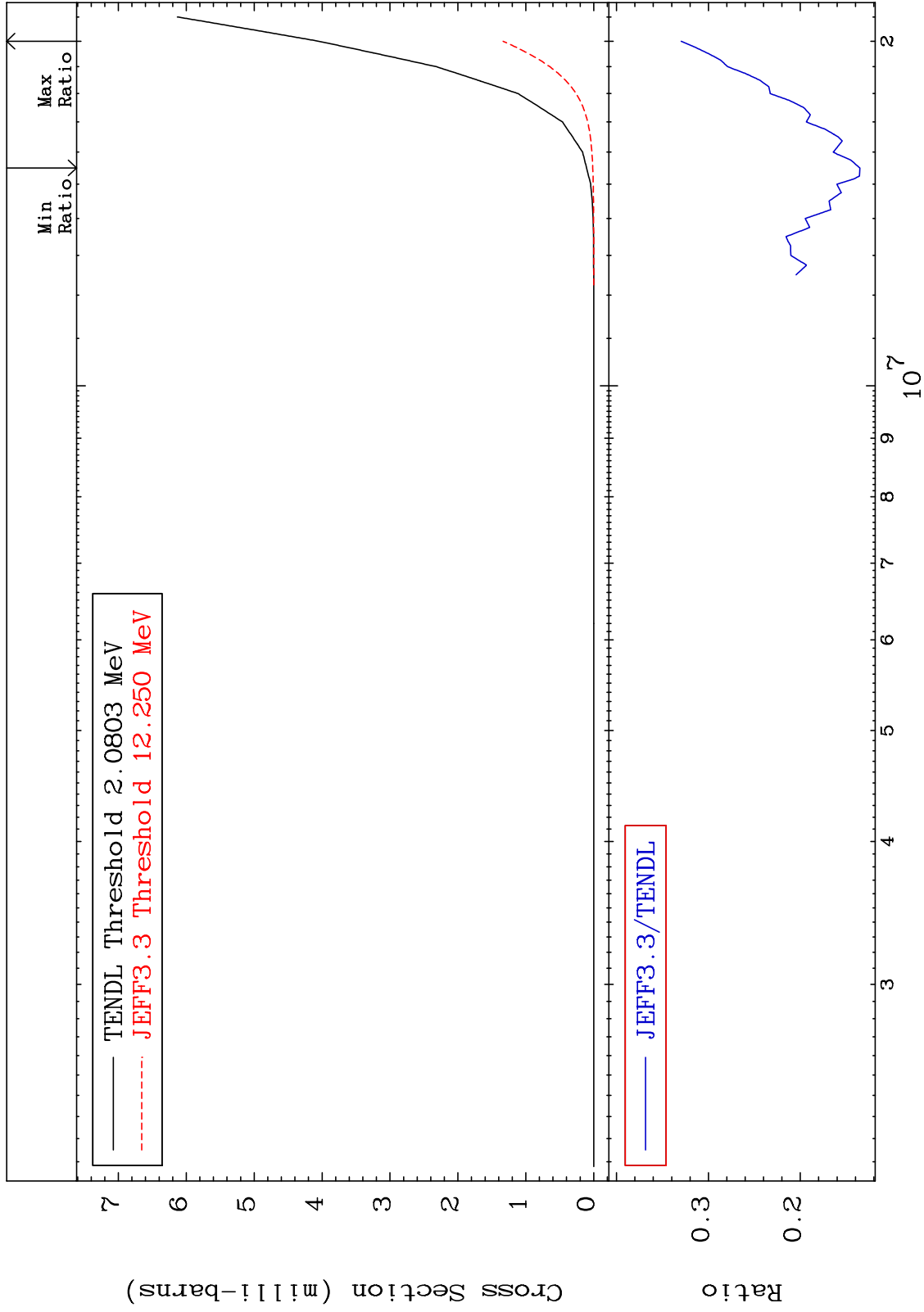
MAT 5728

(n, n') α

Cross Section

57-La-139

-86.49 To -67.04%



6

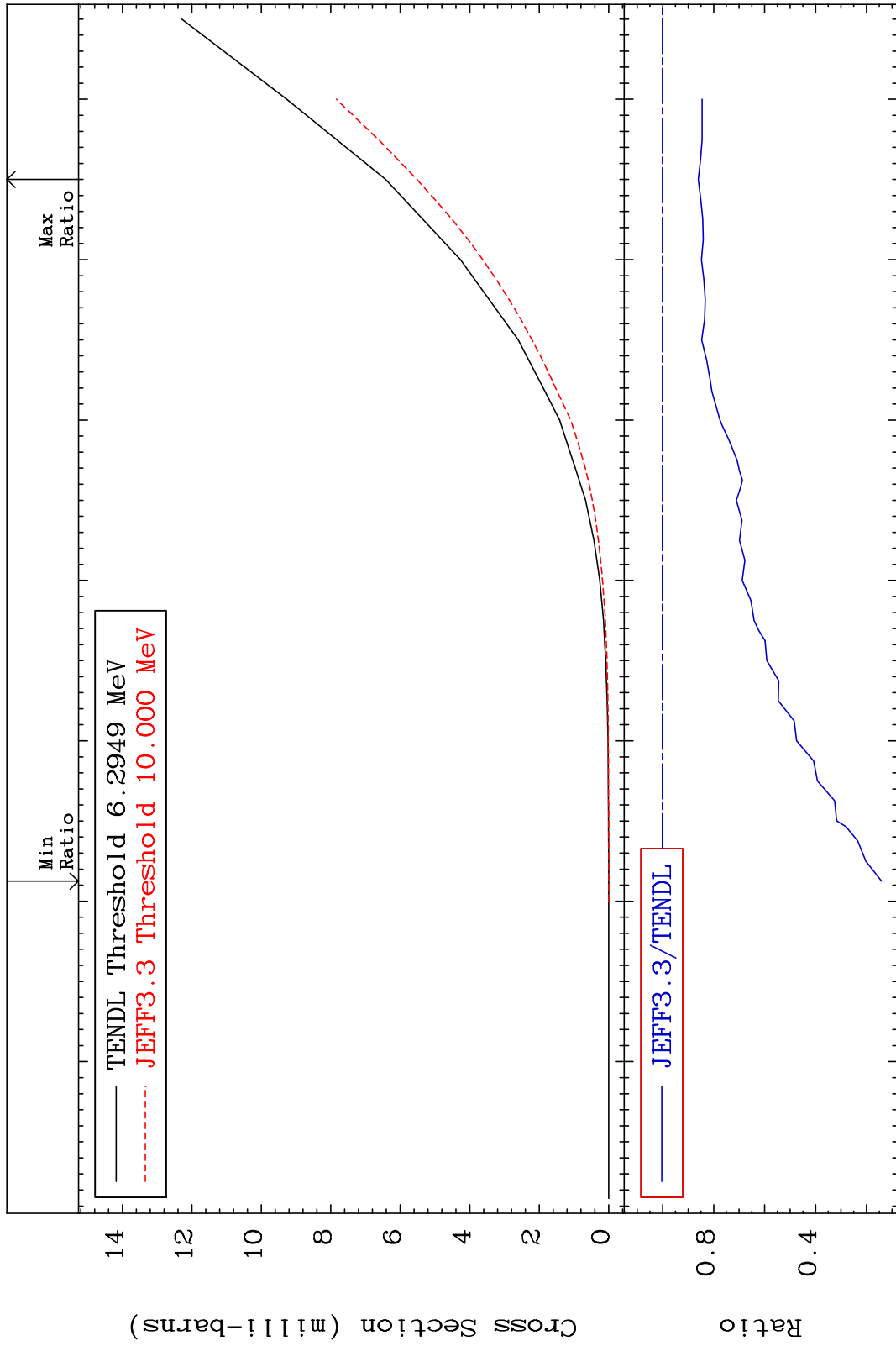
Incident Energy (eV)

57-La-139

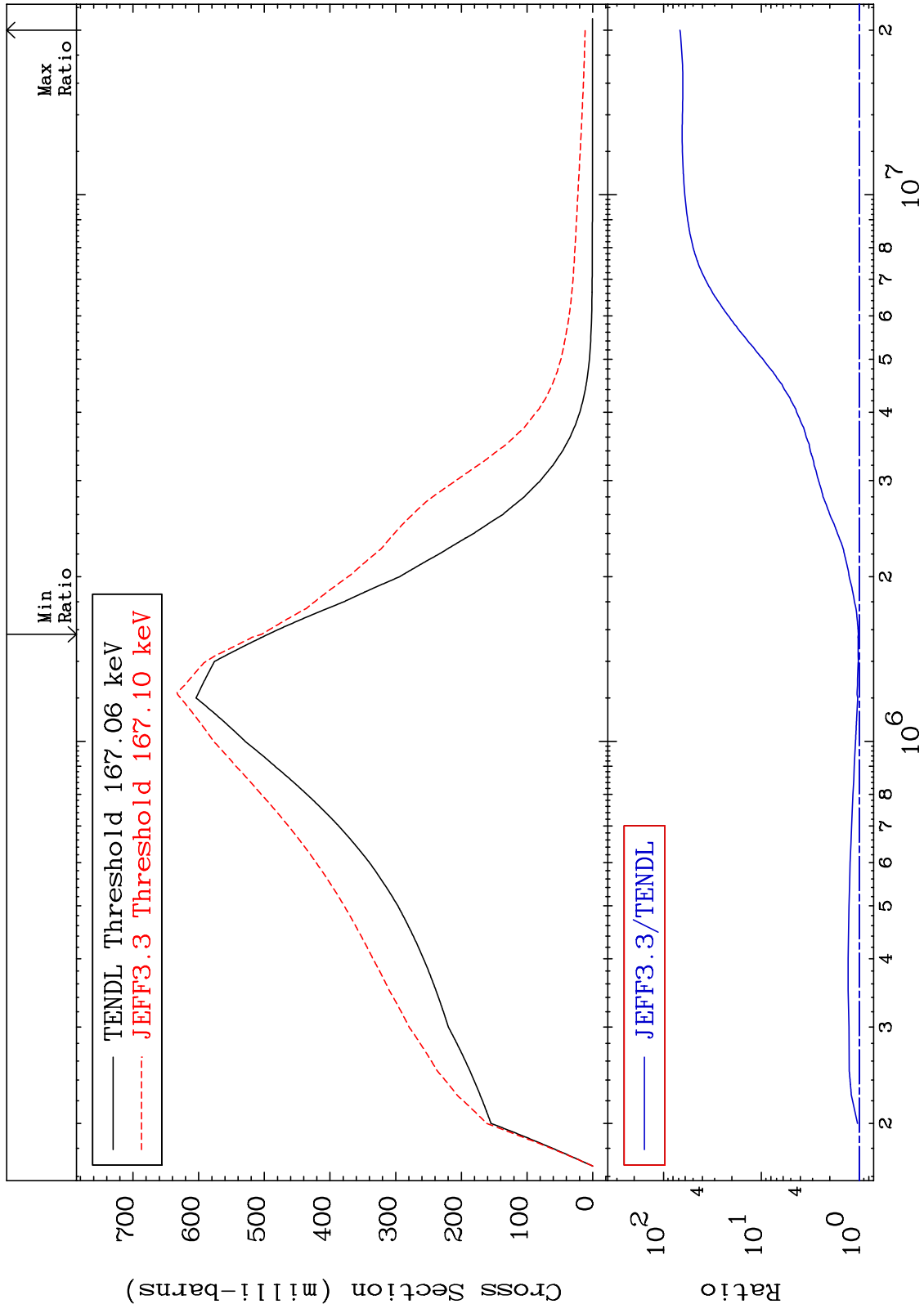
MAT 5728

(n,n') p
Cross Section

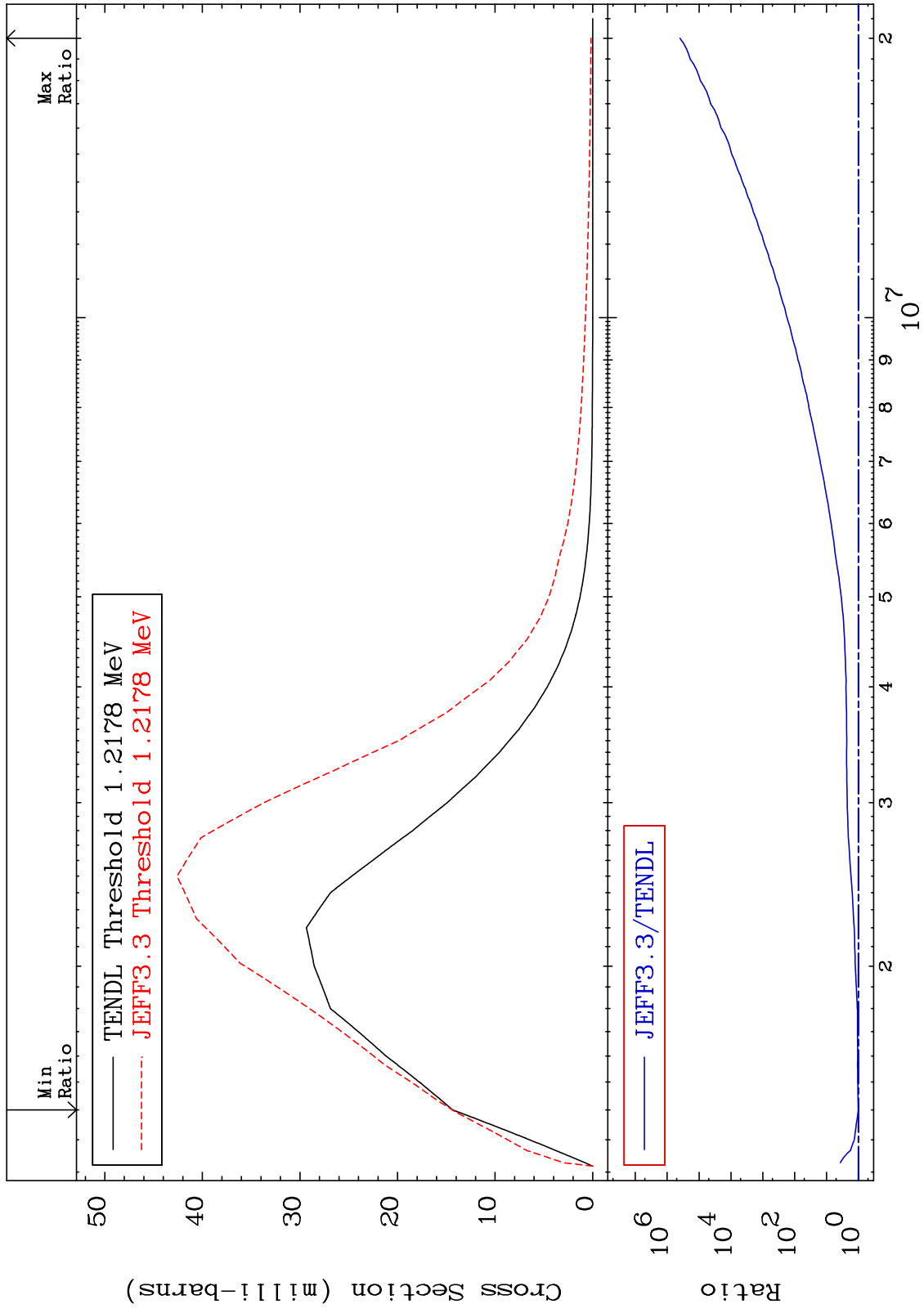
57-La-139
-85.90 To -14.00%



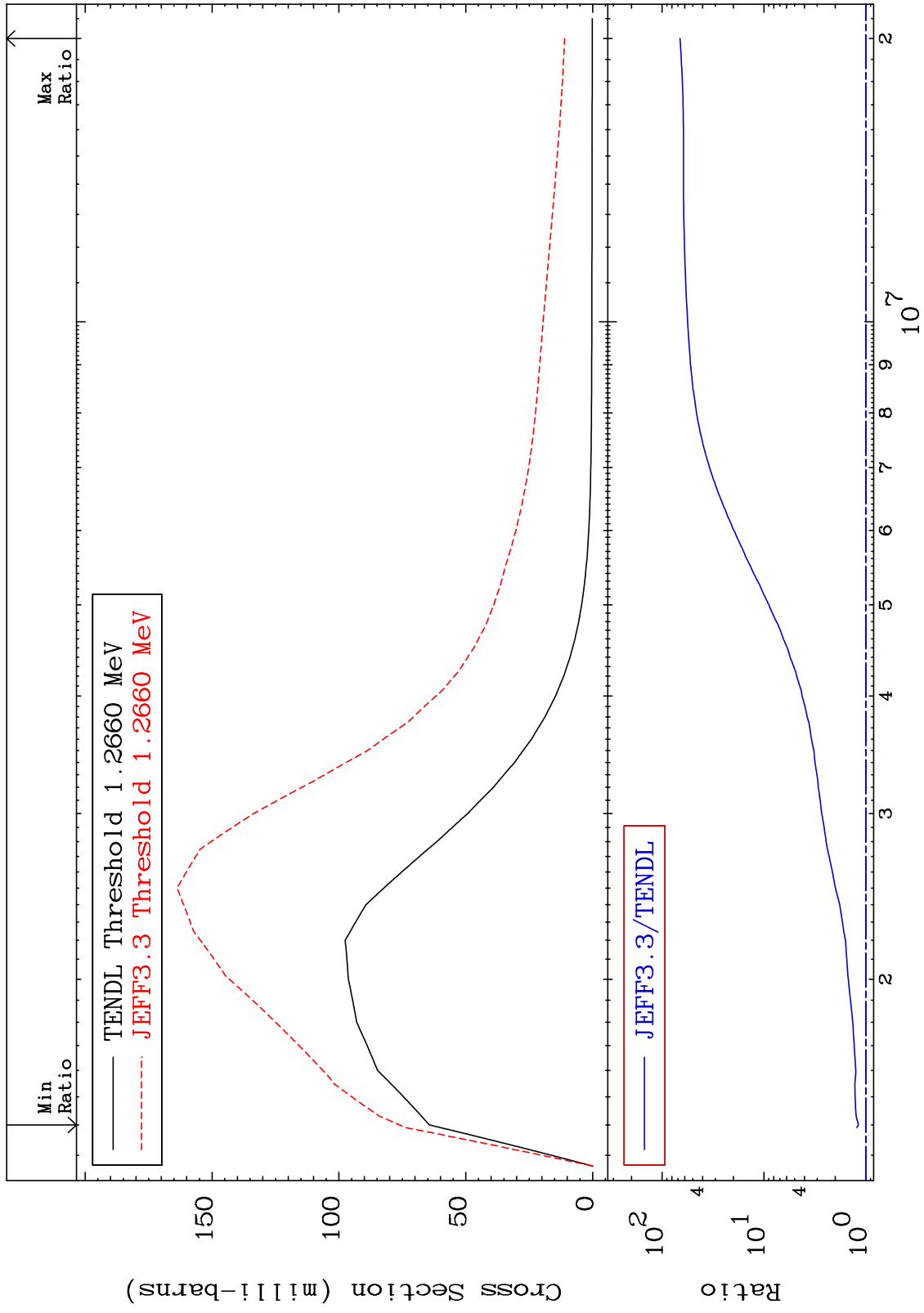
MAT 5728 MT= 51 (n, n') Level Cross Section 57-La-139 1.999 To 6684. %



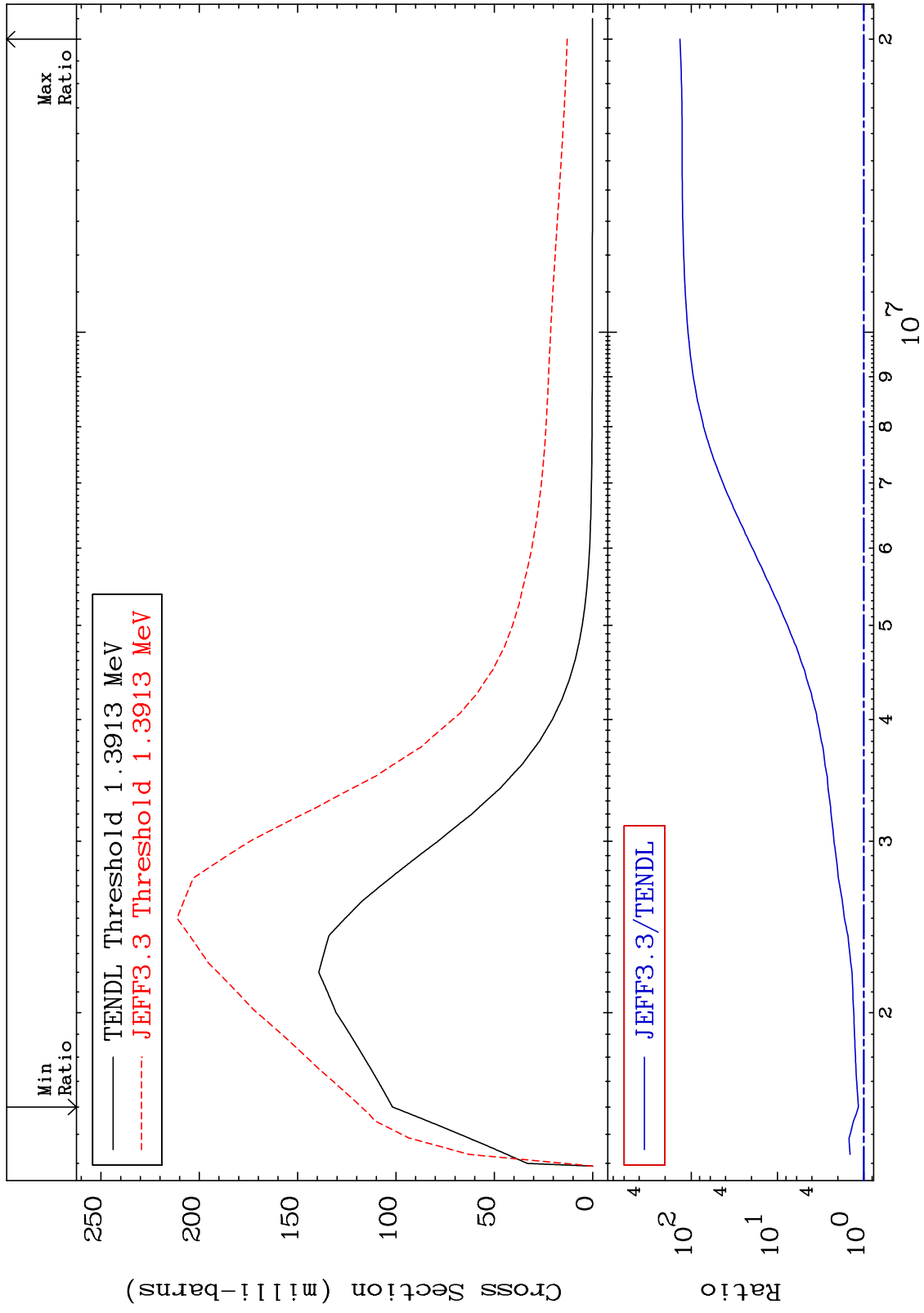
MAT 5728 MT= 52 (n, n') Level Cross Section 57-La-139 0.211 To 9999. %



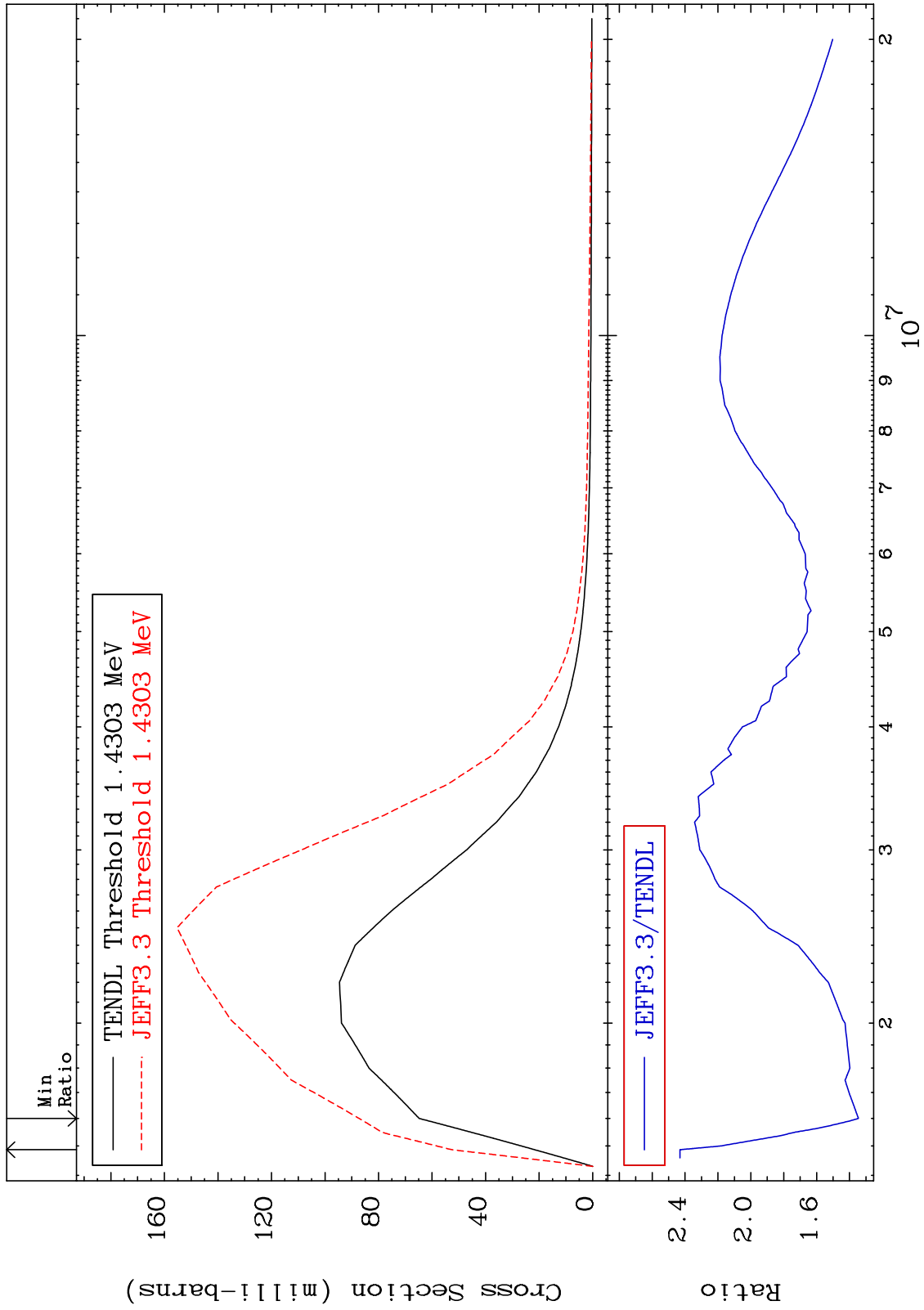
MAT 5728 MT= 54 (n,n') Level Cross Section 57-La-139 18.26 To 6571. %



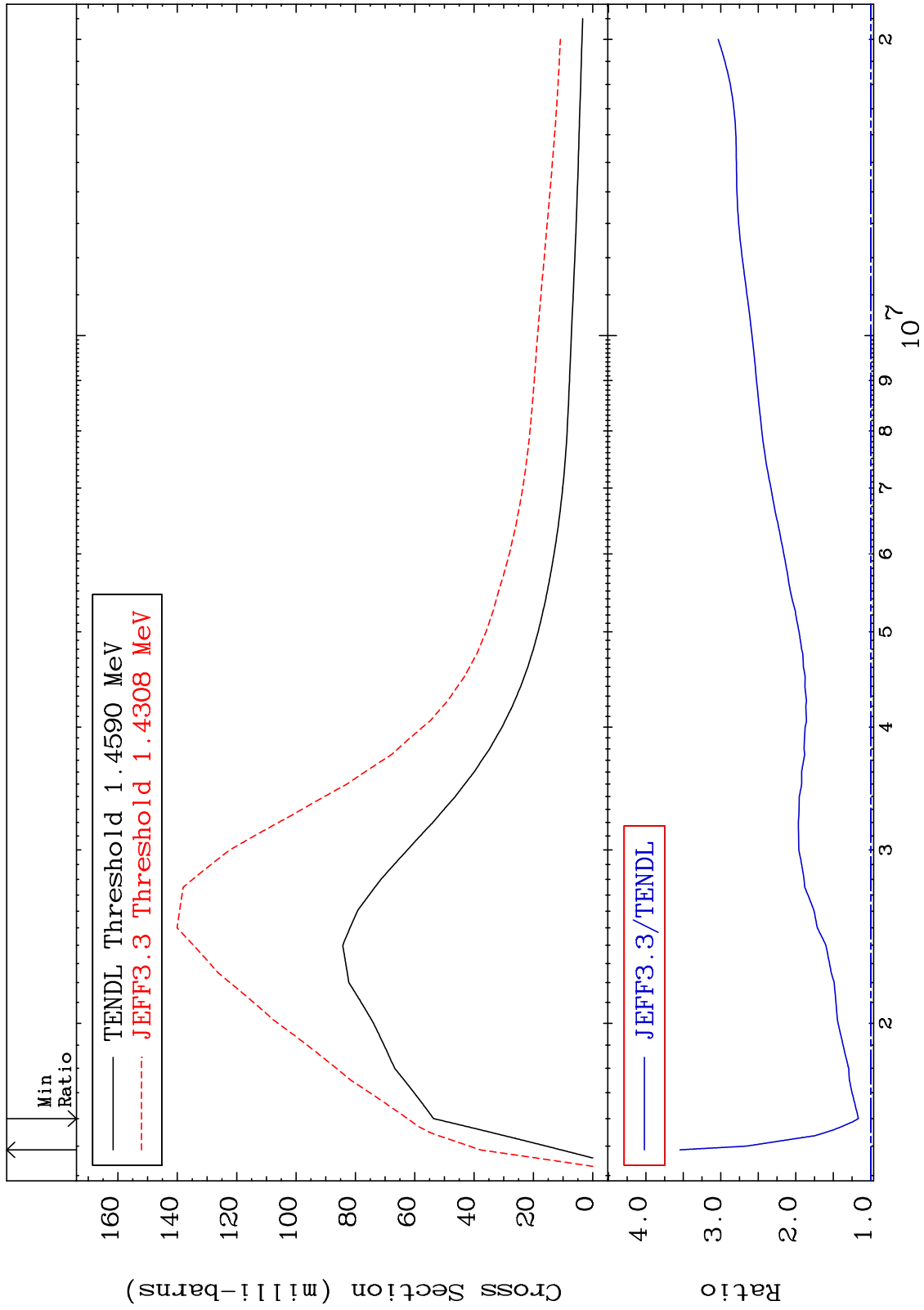
MAT 5728 MT= 55 (n,n') Level Cross Section 57-La-139 To 9999. %
 15.50



MAT 5728 MT= 56 (n,n') Level Cross Section 57-La-139 To 143.1 %
 34.59



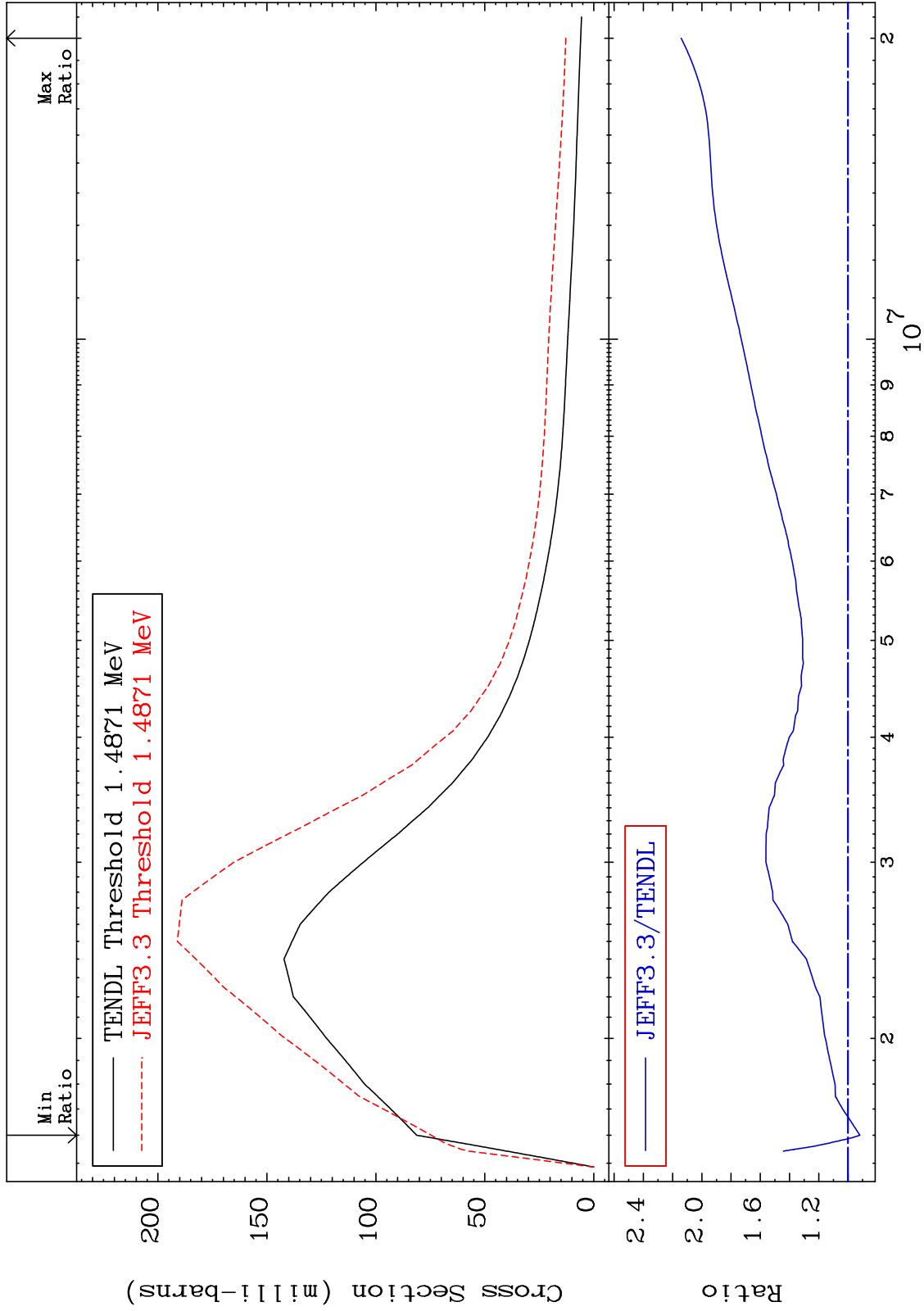
MAT 5728 MT= 57 (n,n') Level Cross Section 57-La-139 16.42 To 254.4 %



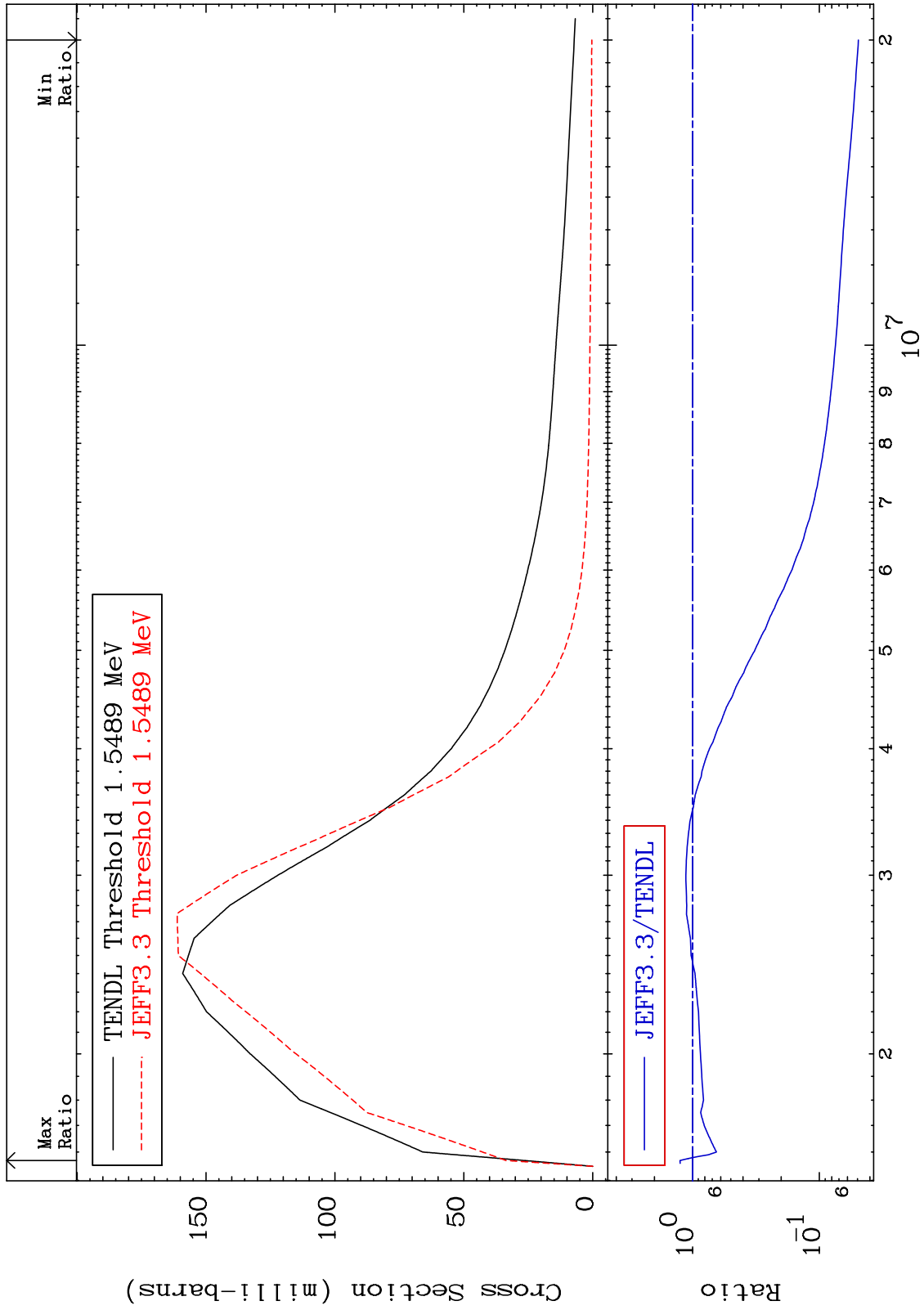
MAT 5728

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

57-La-139
-8.175 To 114.1 %



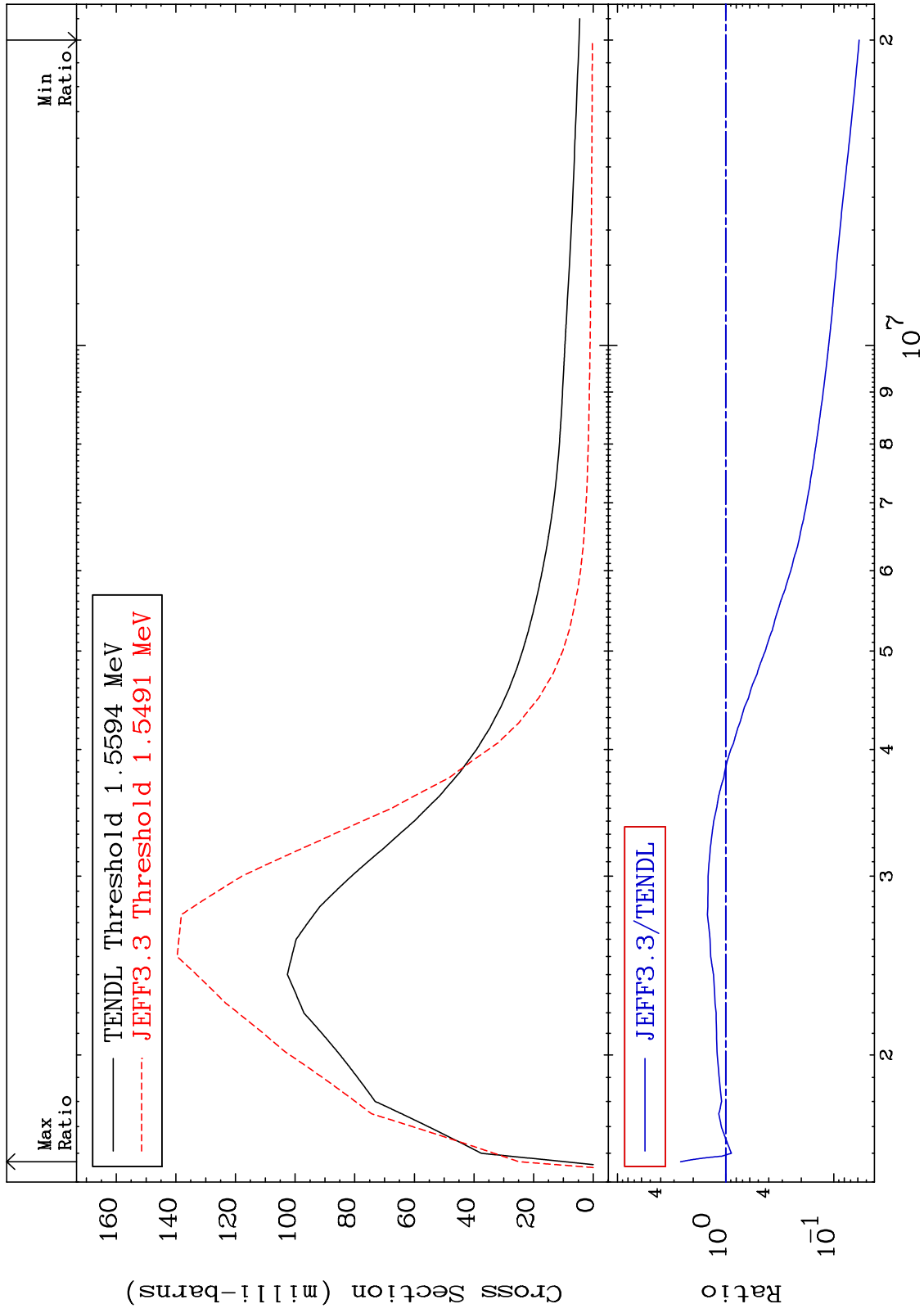
MAT 5728 MT= 59 (n, n') Level Cross Section 57-La-139 -95.08 To 25.49 %

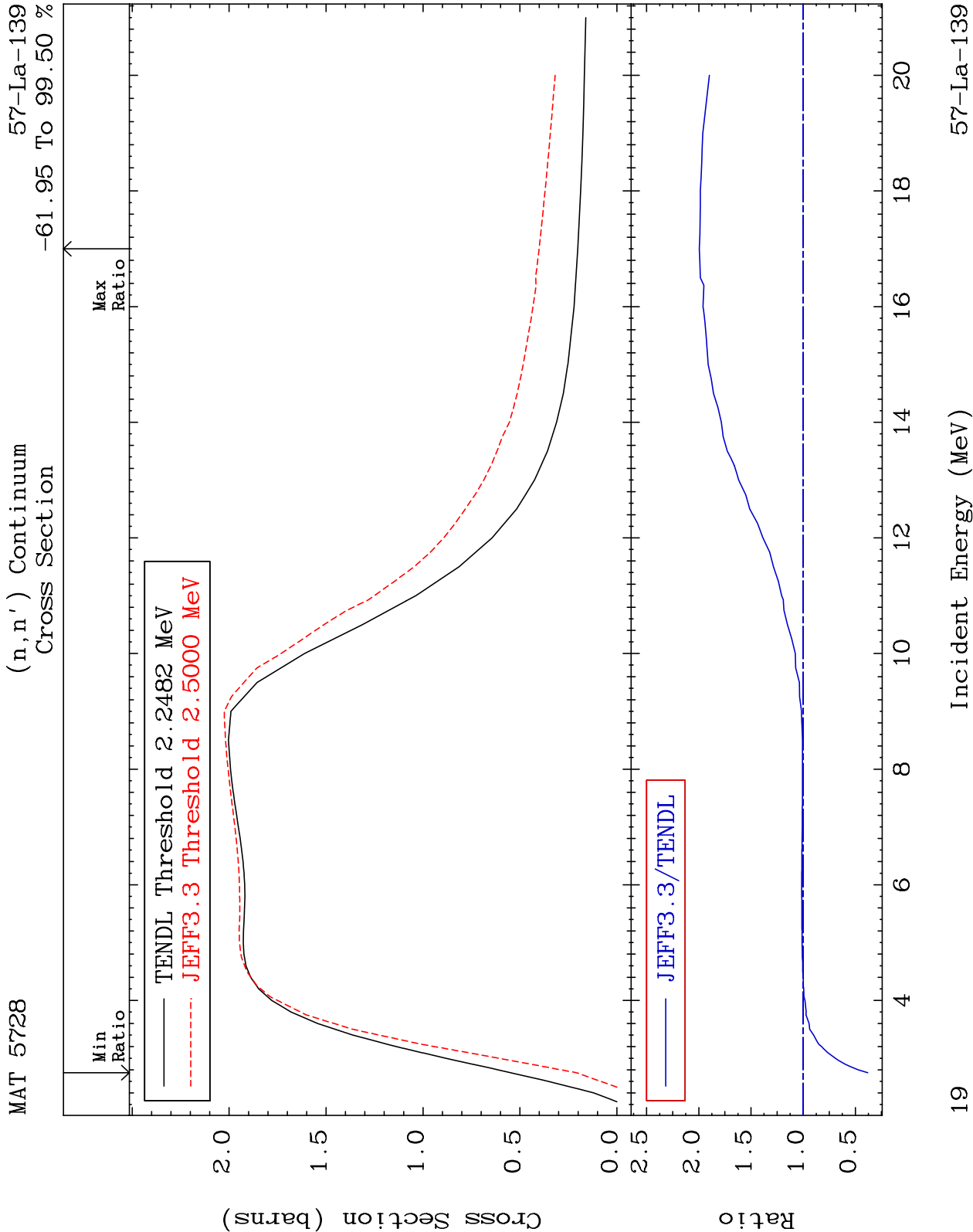


MAT 5728

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

57-La-139
-94.17 To 161.1 %





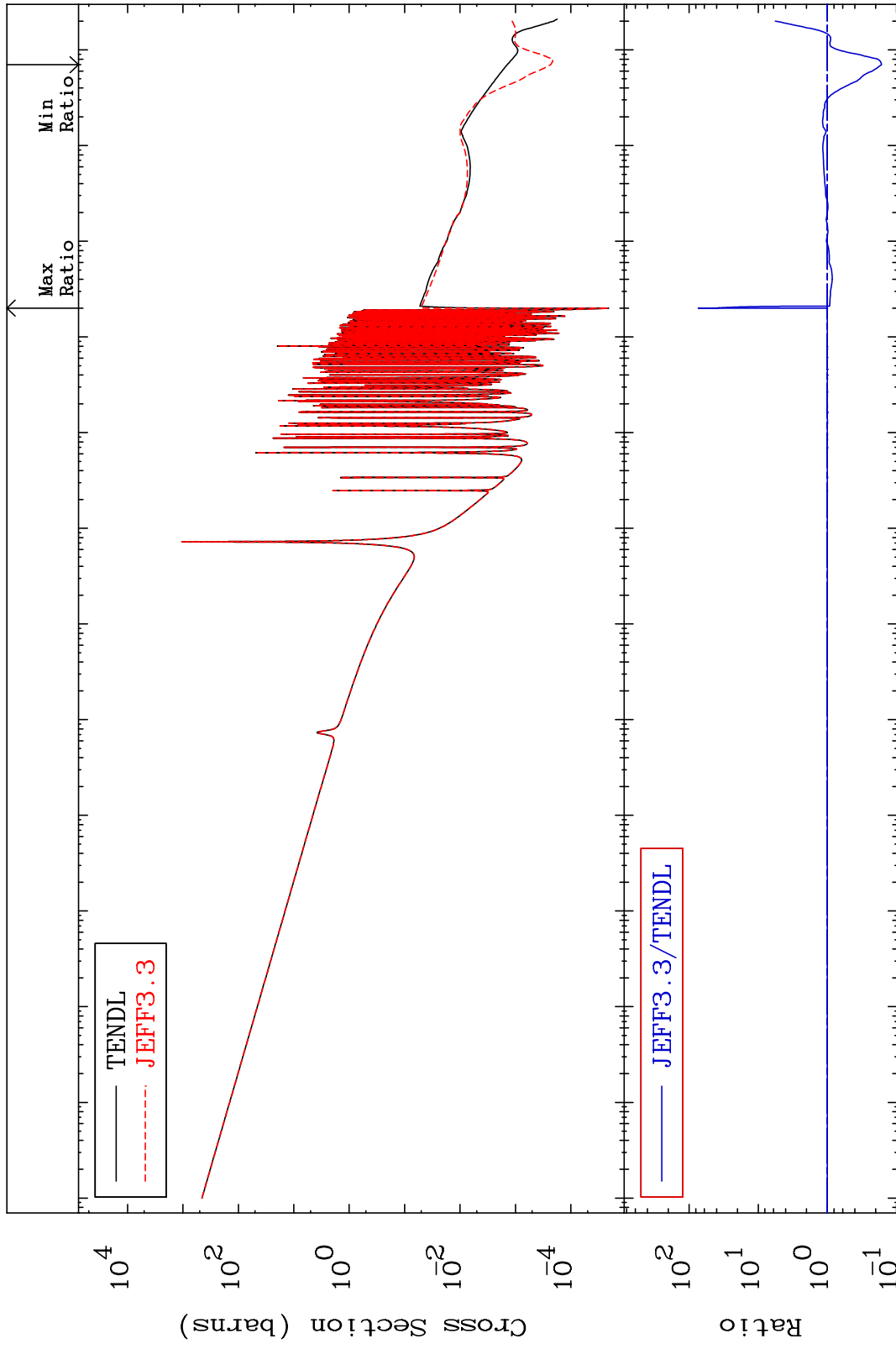
MAT 5728

(n, γ)

57-La-139

Cross Section

-83.58 To 7243. %



— TENDL
- - - JEFF3.3

— JEFF3.3/TENDL

Incident Energy (eV)

57-La-139

20

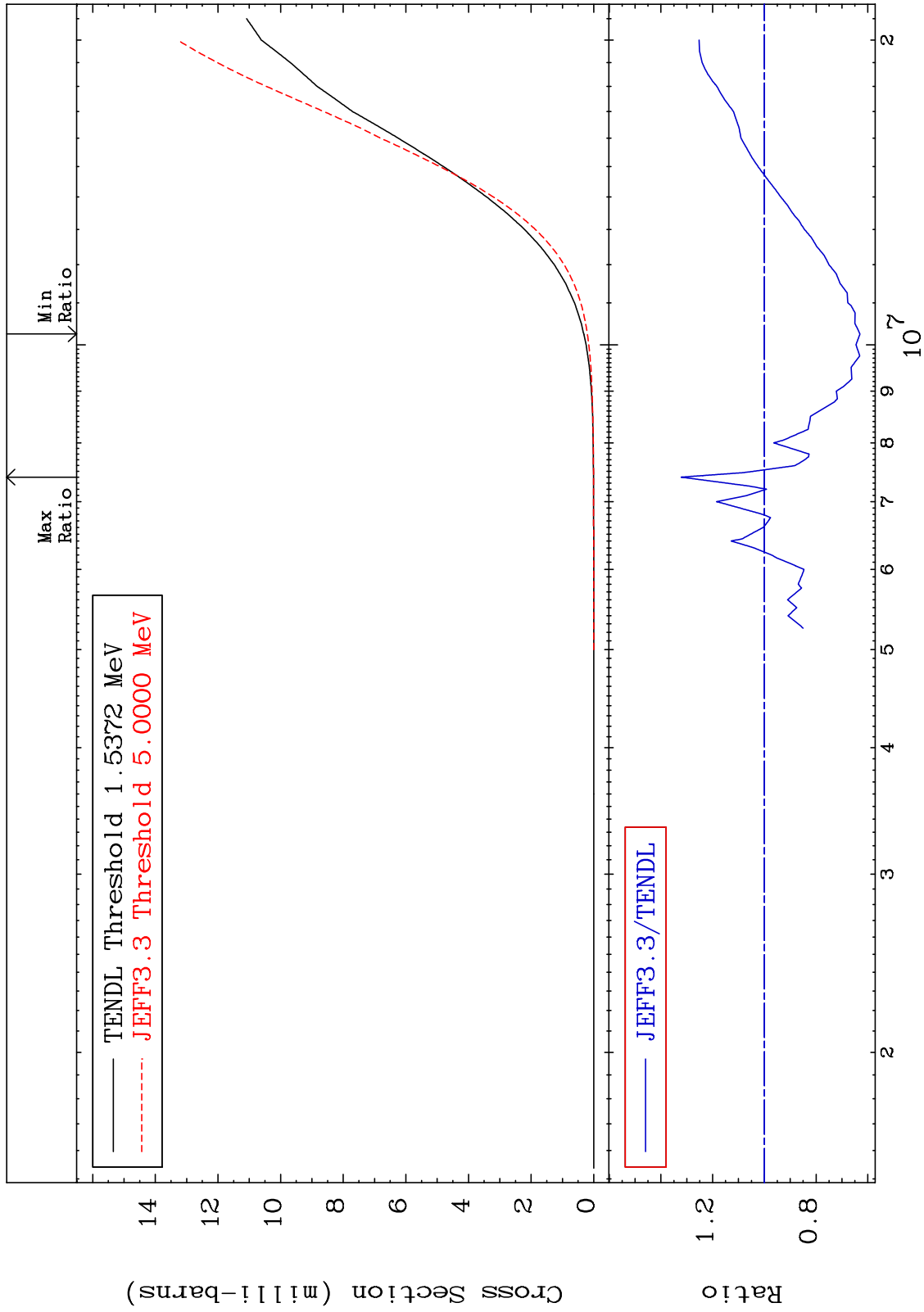
MAT 5728

(n, p)

57-La-139

Cross Section

-36.96 To 32.15 %



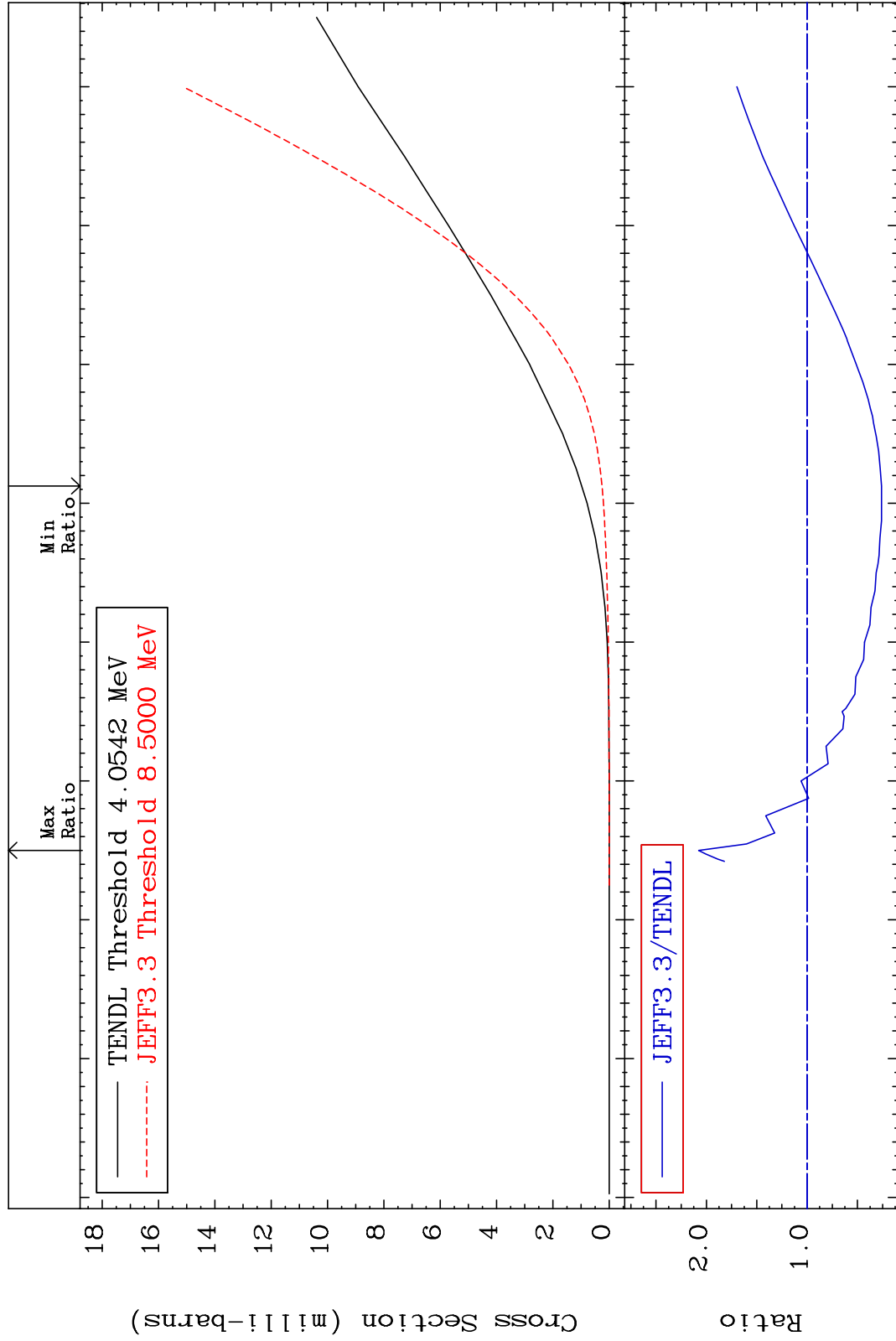
MAT 5728

(n, d)

57-La-139

Cross Section

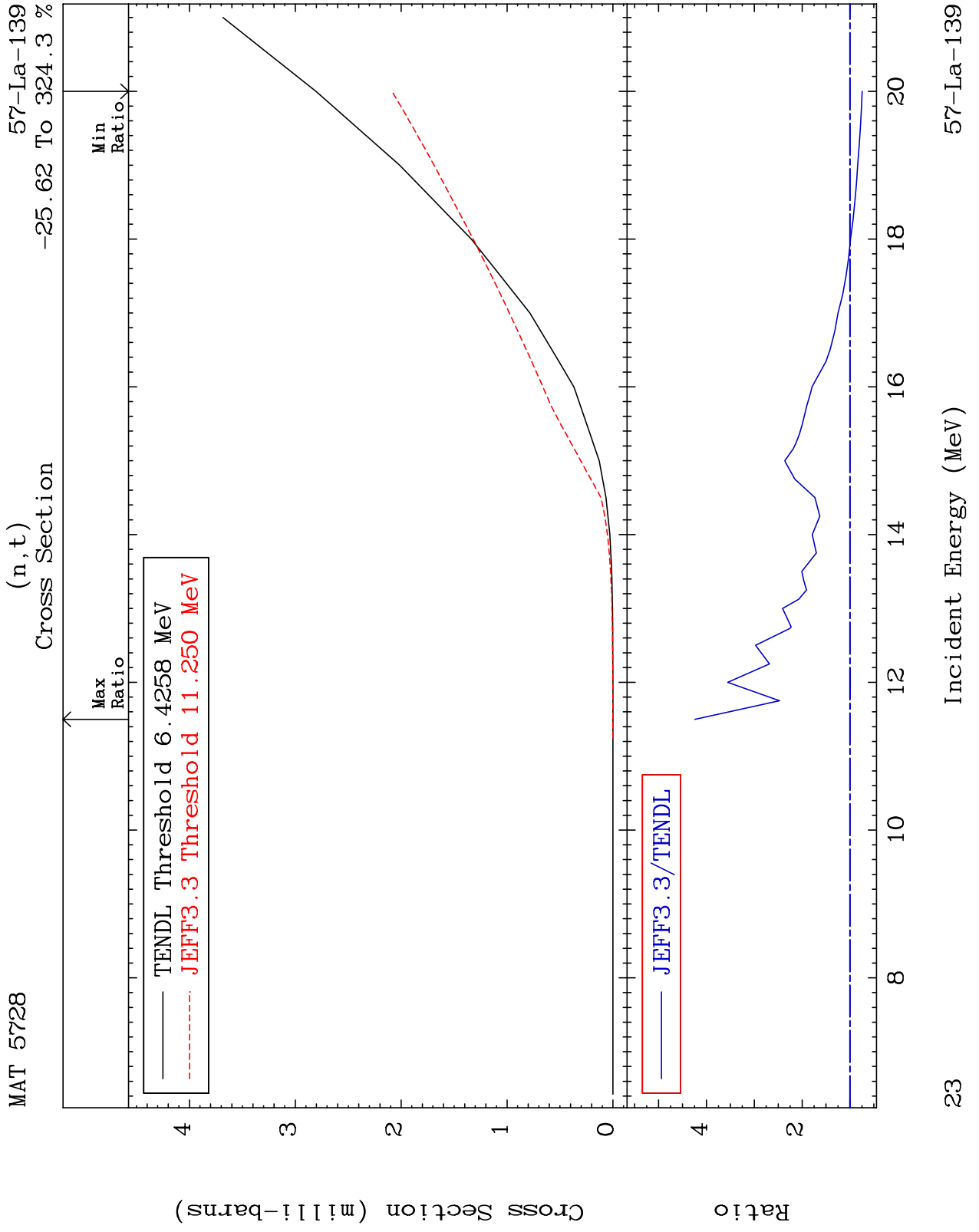
-73.96 To 107.6 %



57-La-139

Incident Energy (MeV)

22



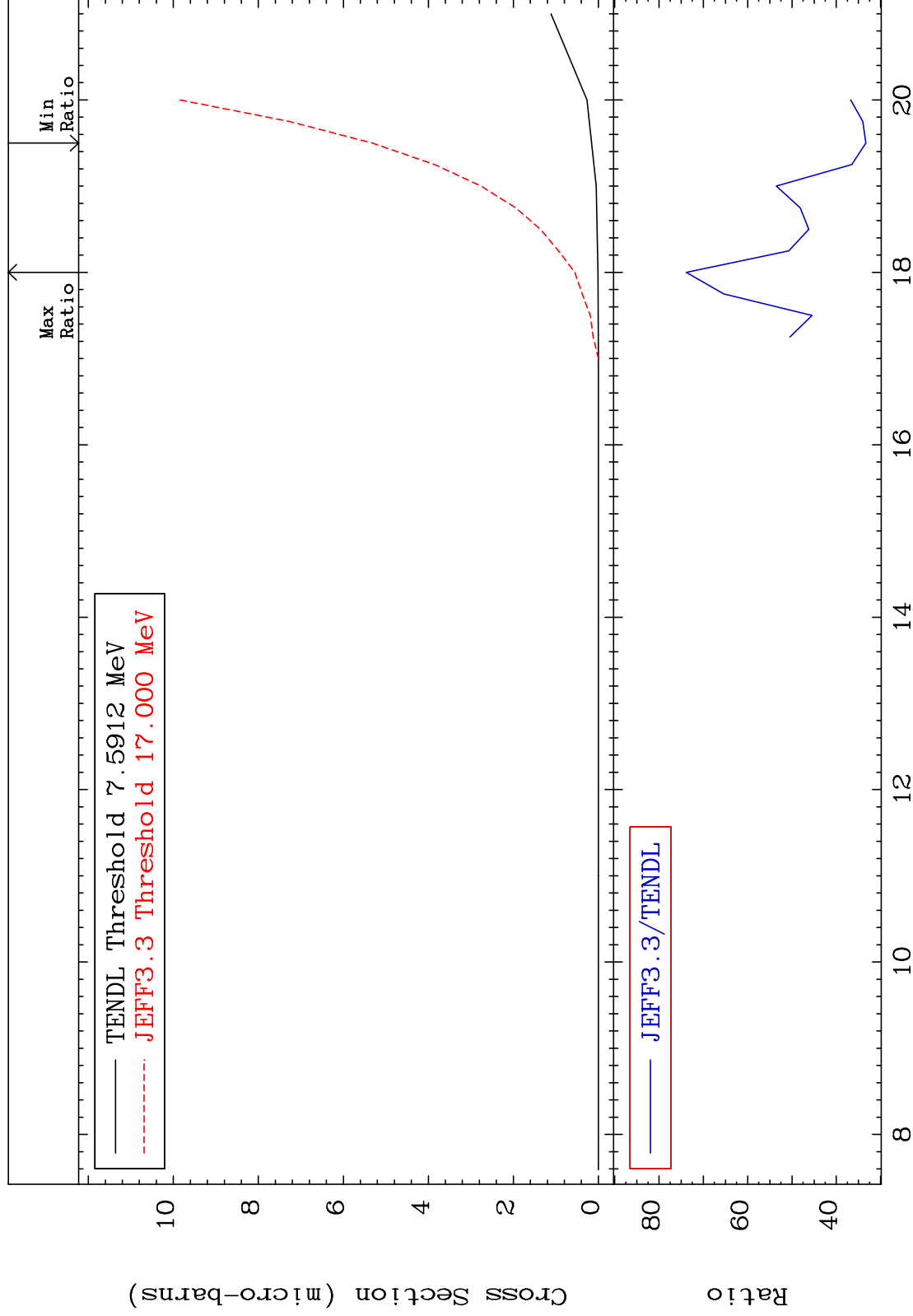
MAT 5728

(n, He-3)

Cross Section

57-La-139

3233. To 7284. %



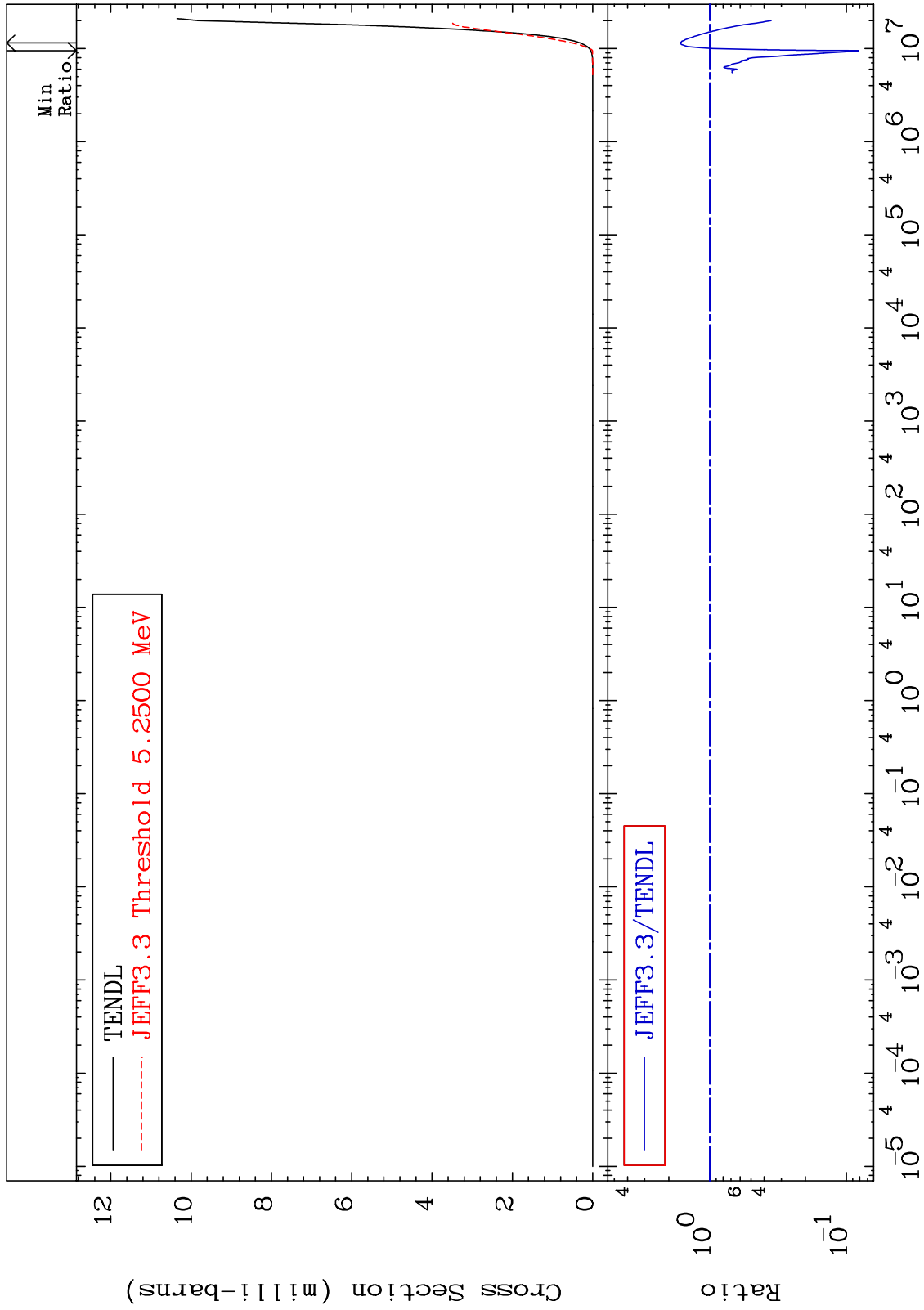
MAT 5728

(n, α)

57-La-139

Cross Section

-91.83 To 65.38 %



Incident Energy (eV)

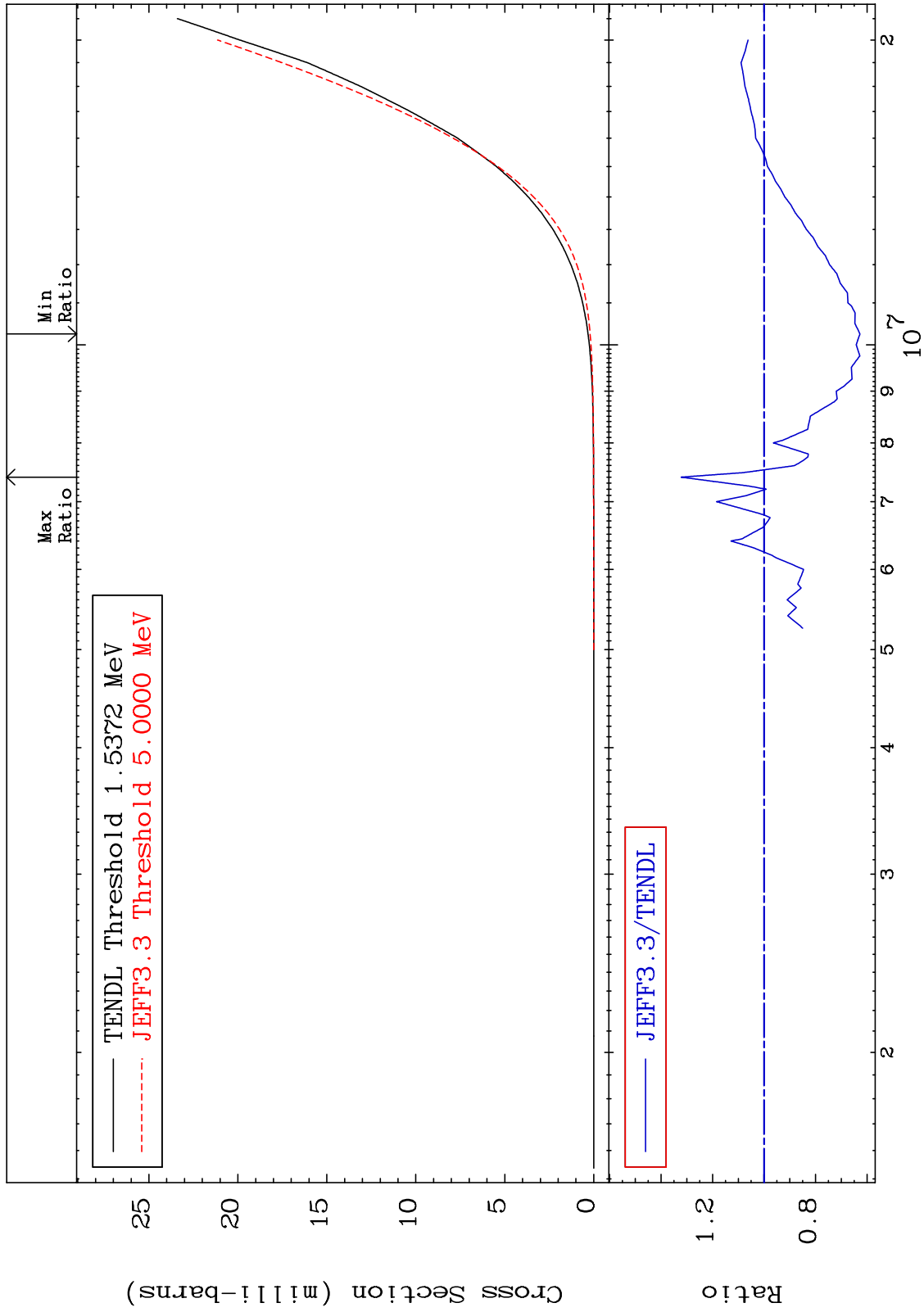
57-La-139

25

MAT 5728

Hydrogen Production
Cross Section

57-La-139
-37.21 To 32.15 %



26

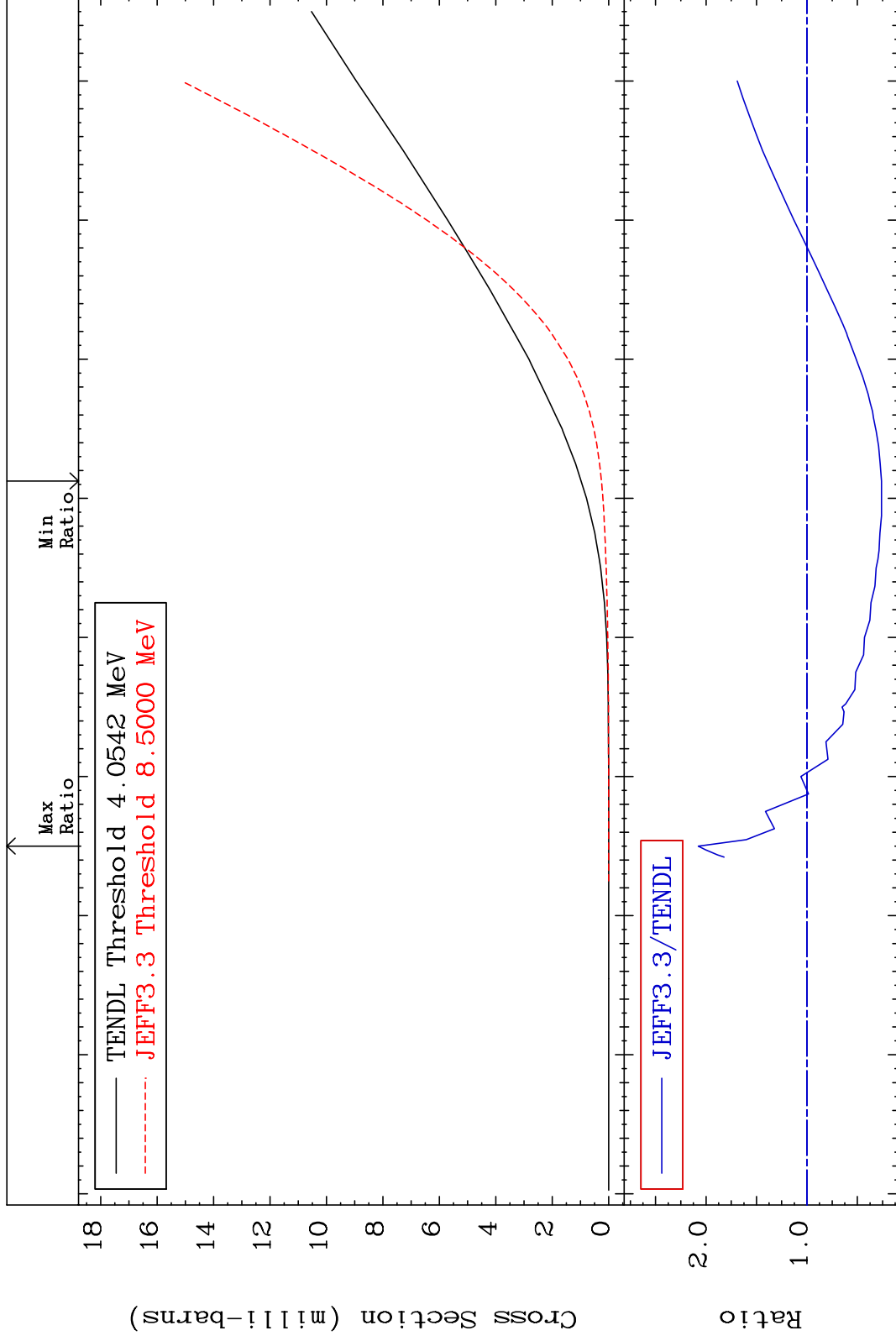
Incident Energy (eV)

57-La-139

MAT 5728

Deuterium Production
Cross Section

57-La-139
-73.96 To 107.6 %



27

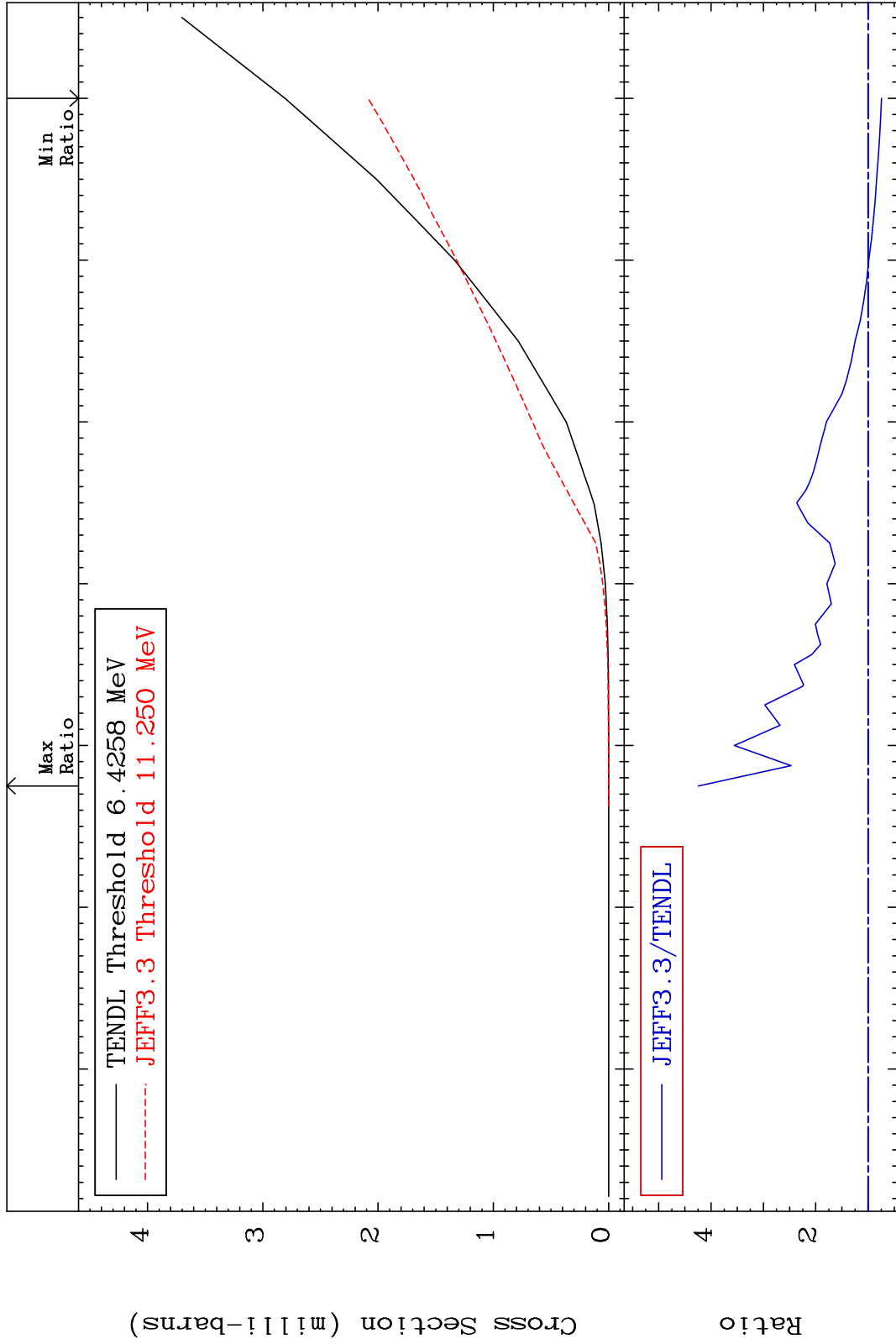
Incident Energy (MeV)

57-La-139

MAT 5728

Tritium Production
Cross Section

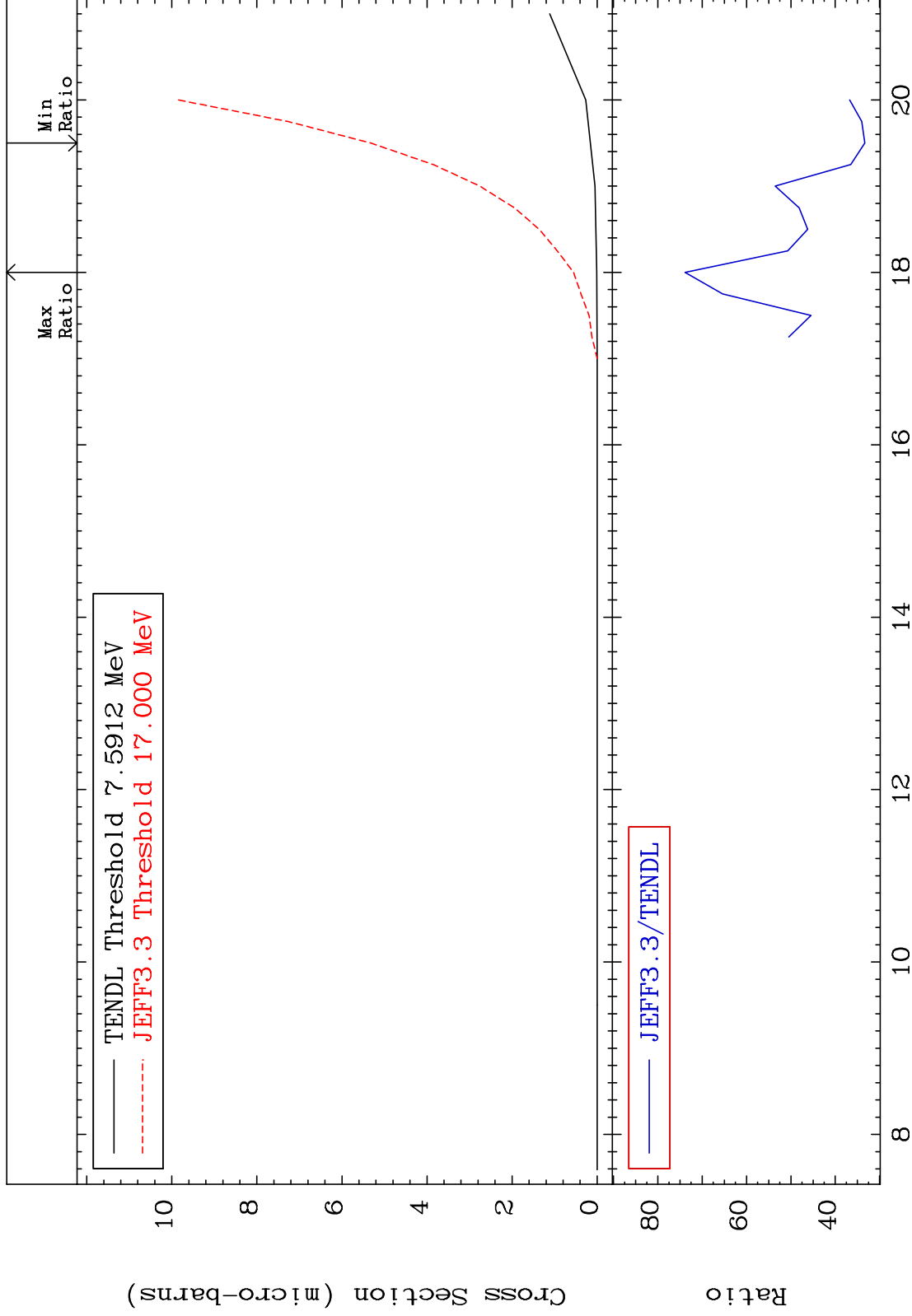
57-La-139
-25.69 To 324.3 %



MAT 5728

He-3 Production
Cross Section

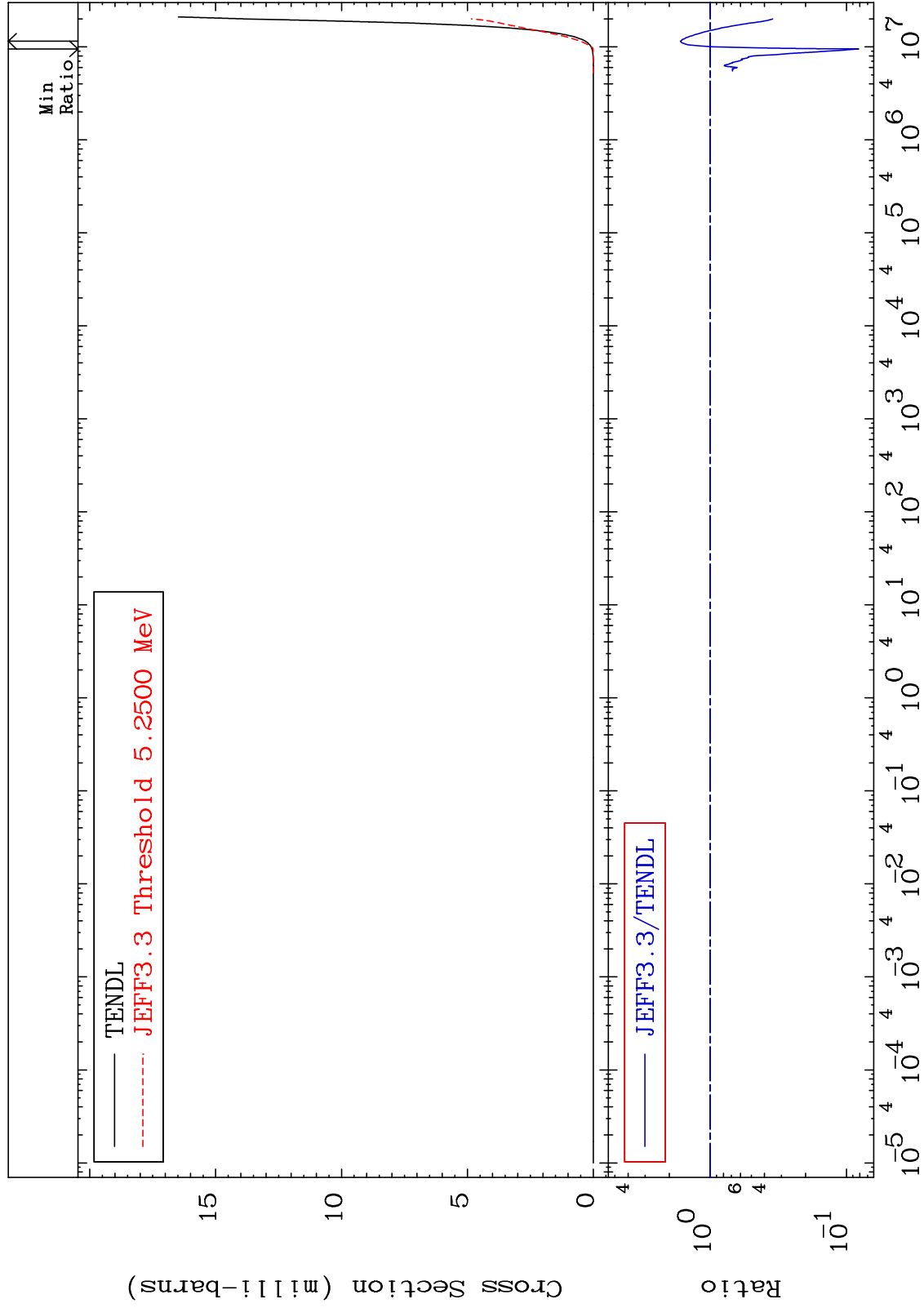
57-La-139
To 7284. %
3233.



MAT 5728

He-4 Production
Cross Section

57-La-139
-91.83 To 65.34 %



30

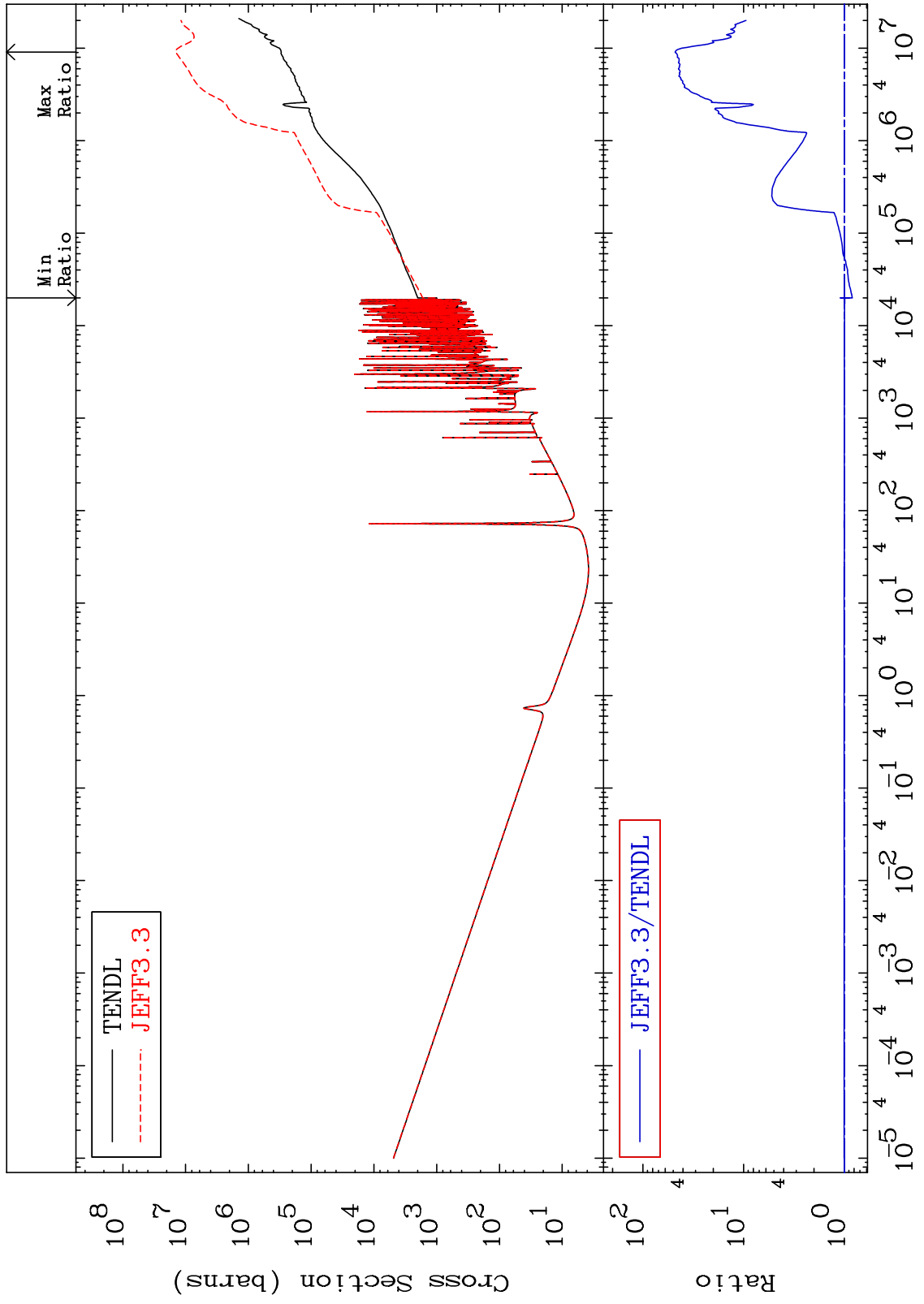
Incident Energy (eV)

57-La-139

MAT 5728

Kerma total (eV-barns)
Cross Section

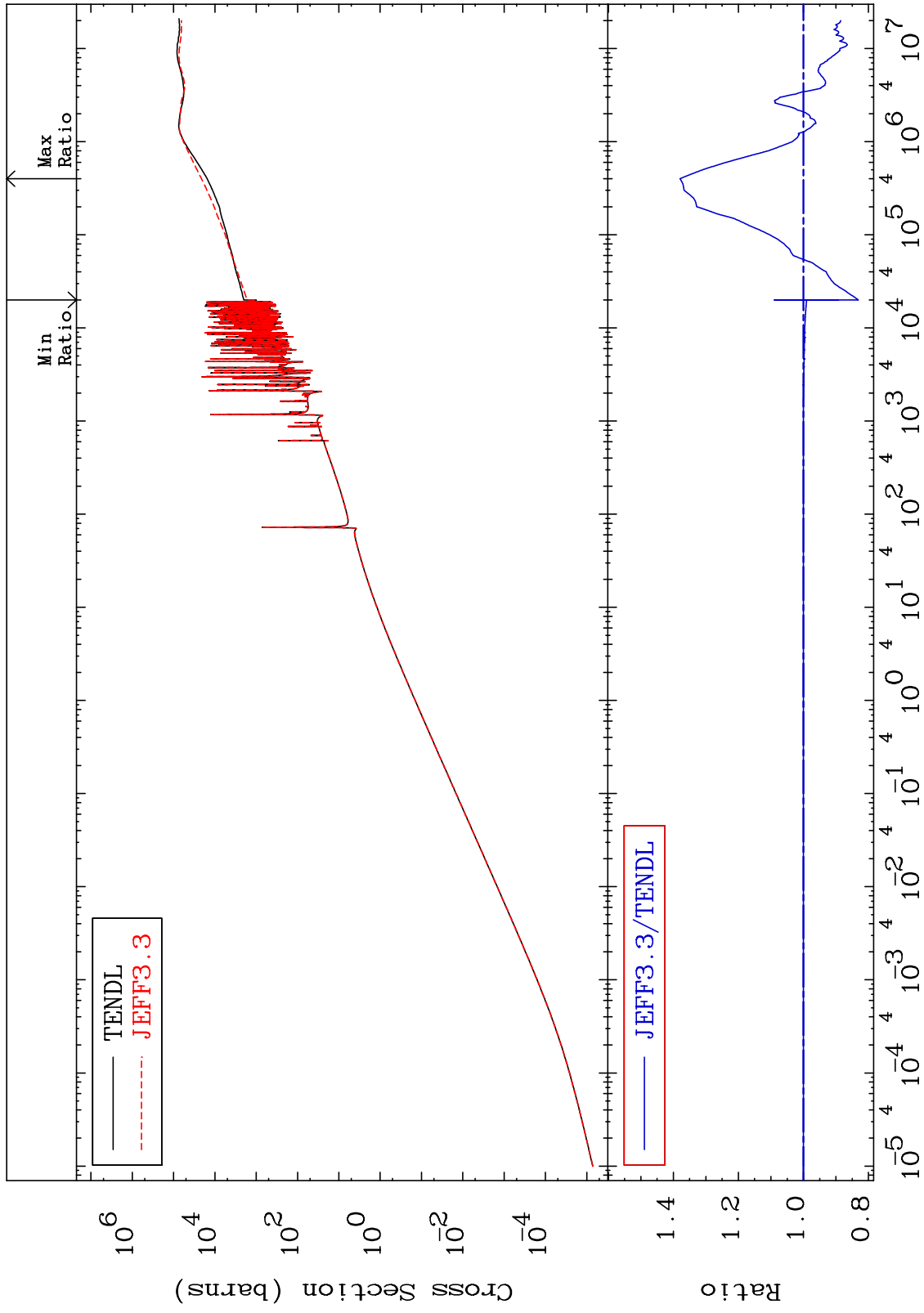
57-La-139
-16.90 To 4666. %



MAT 5728

Kerma elastic
Cross Section

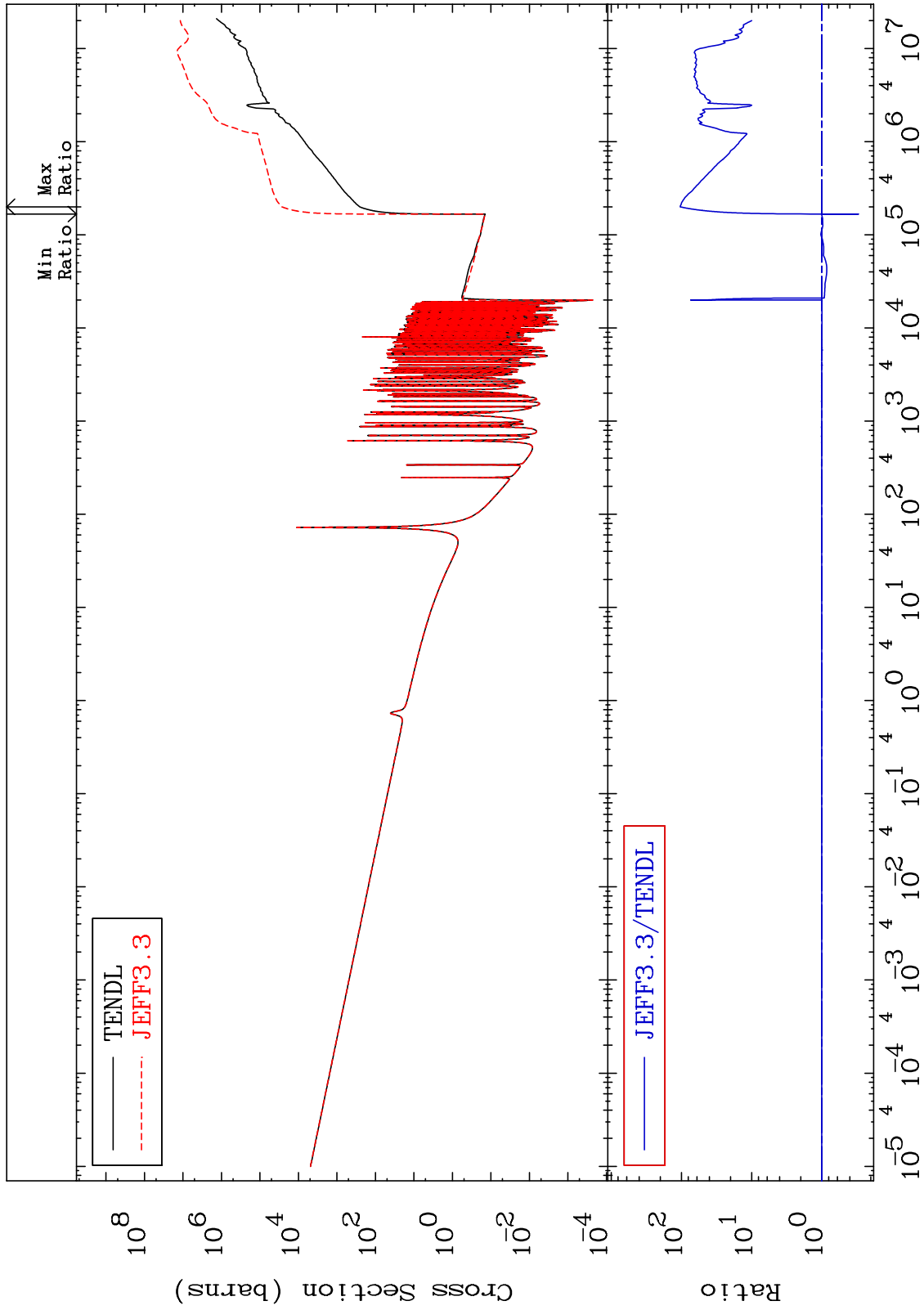
57-La-139
-16.92 To 37.96 %



MAT 5728

Kerma non-elastic (all but mt2)
Cross Section

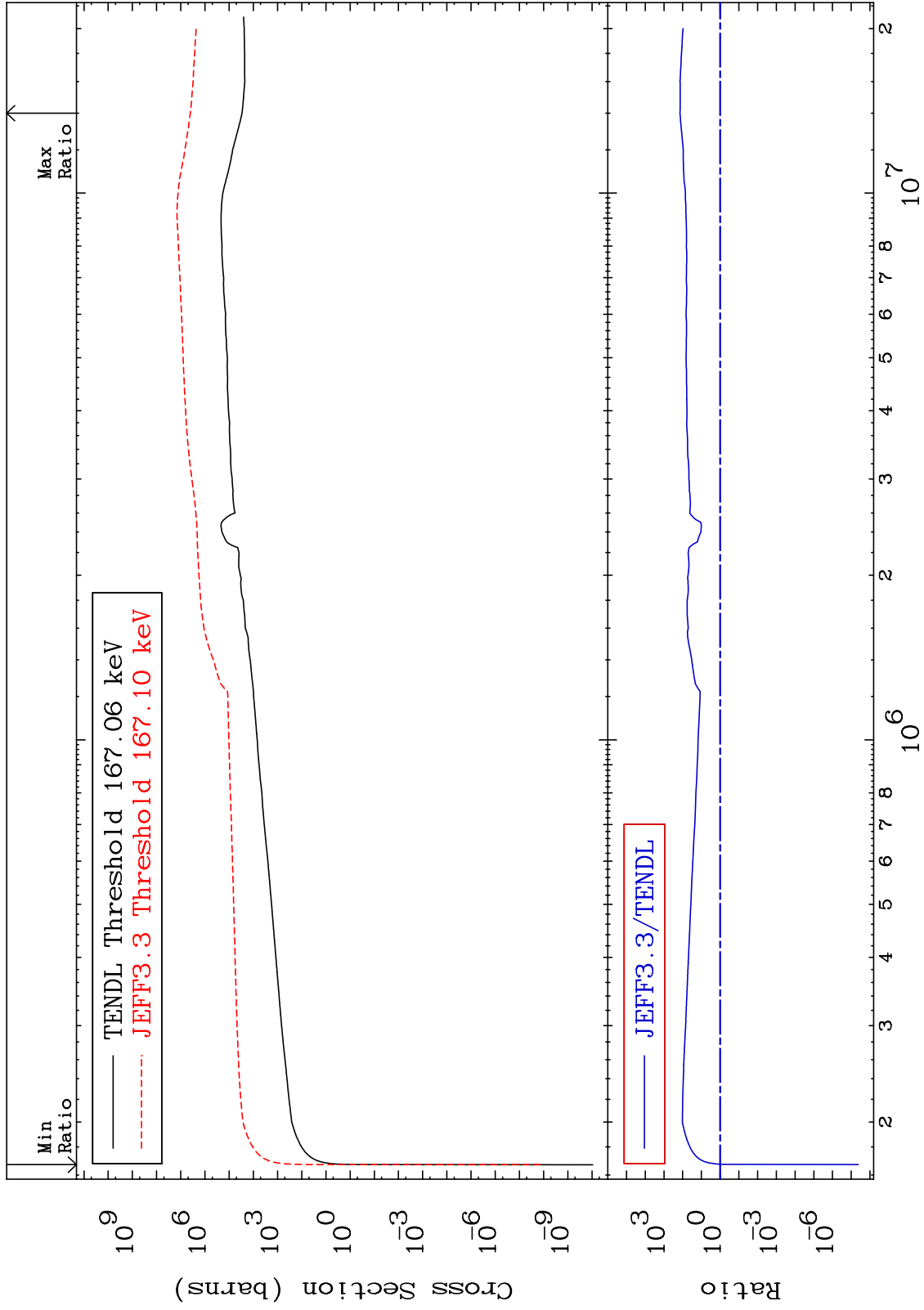
57-La-139
-69.89 To 9999. %



MAT 5728

Kerma inelastic (mt51-91)
Cross Section

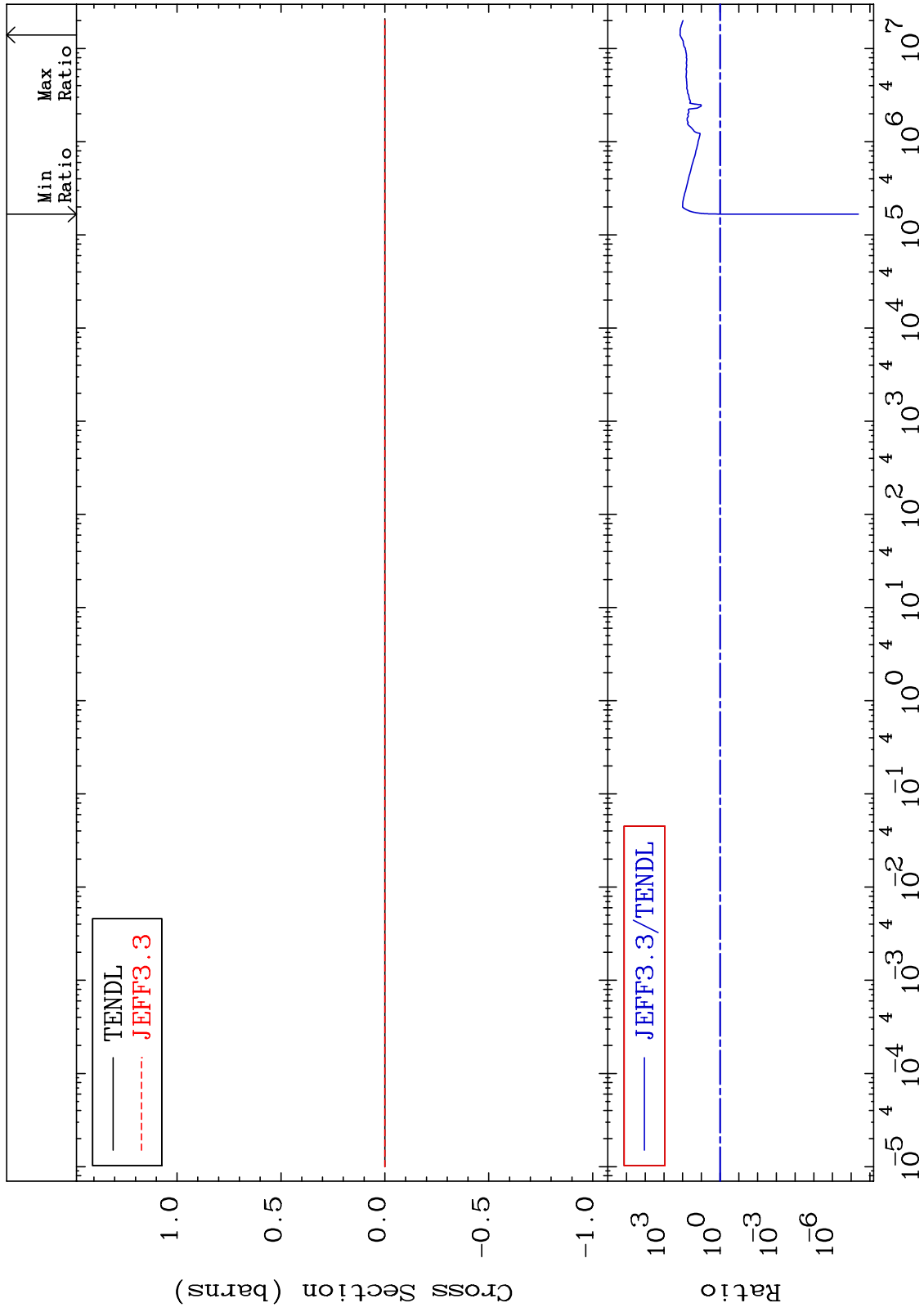
57-La-139
-100.0 To 9999. %



MAT 5728

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

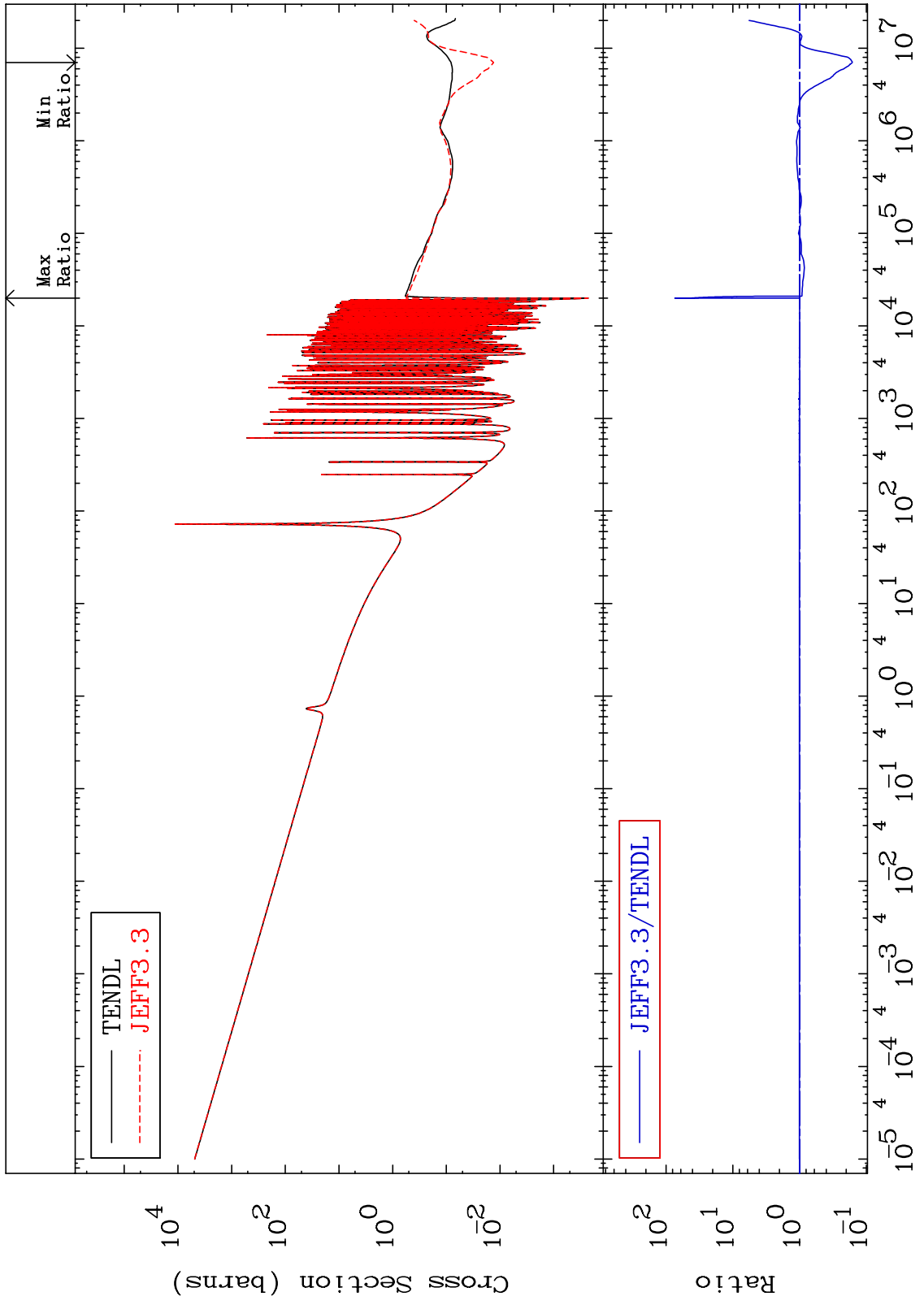
57-La-139
-100.0 To 9999. %



MAT 5728

Kerma capture (mt102)
Cross Section

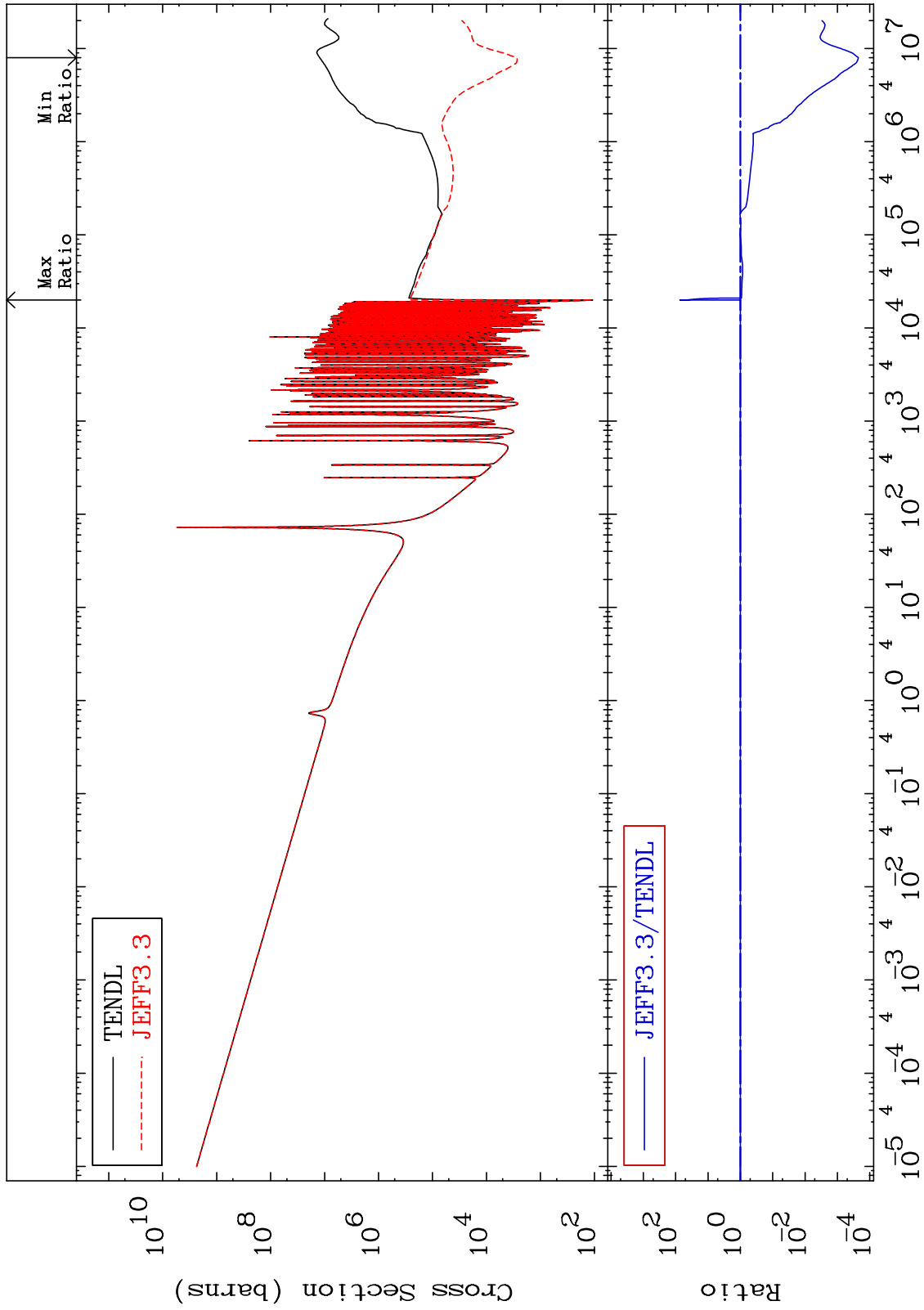
57-La-139
-83.77 To 7229. %



MAT 5728

Total photon (eV-barns)
Cross Section

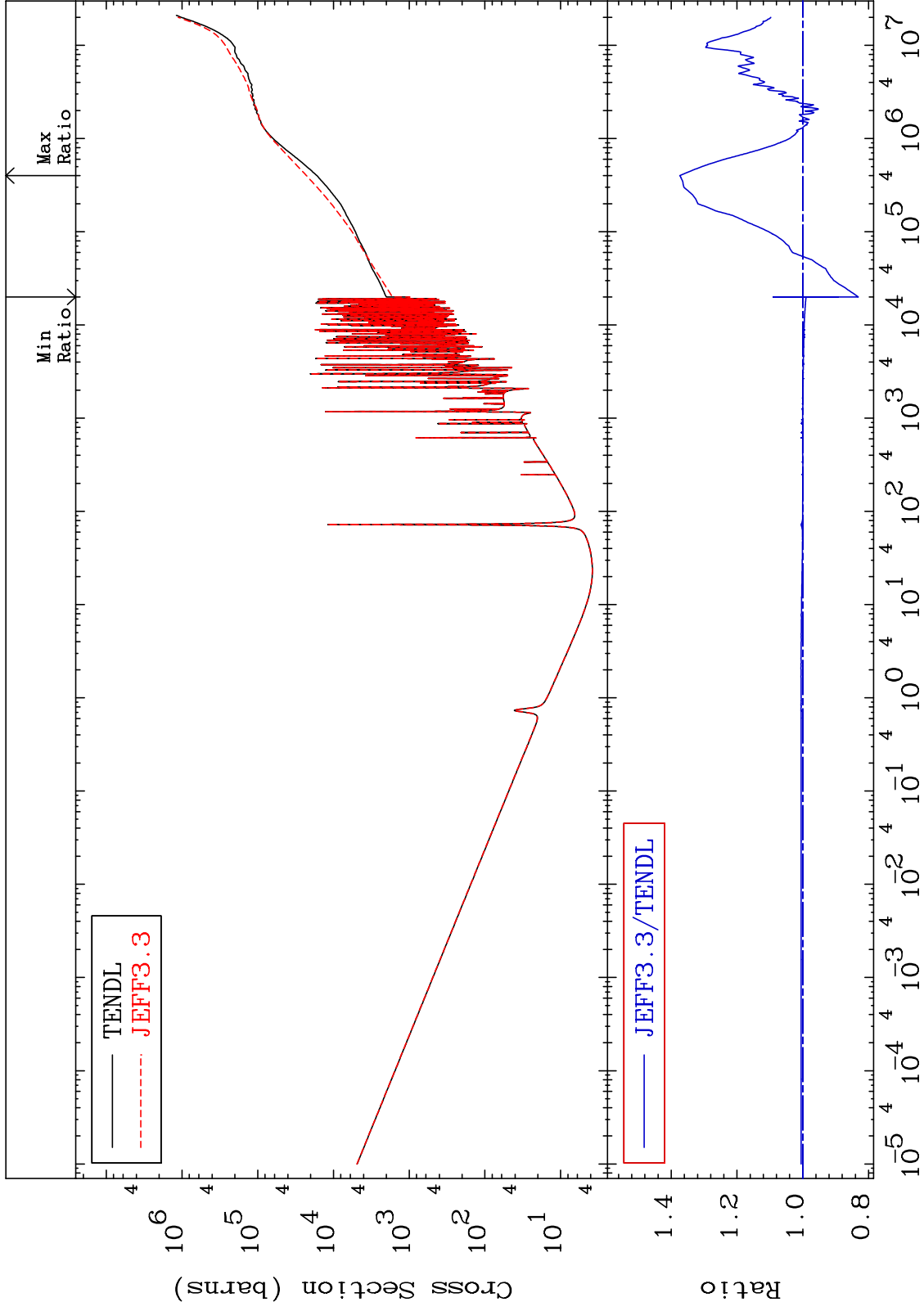
57-La-139
-99.98 To 7243. %



MAT 5728

Total kinematic kerma (high limit)
Cross Section

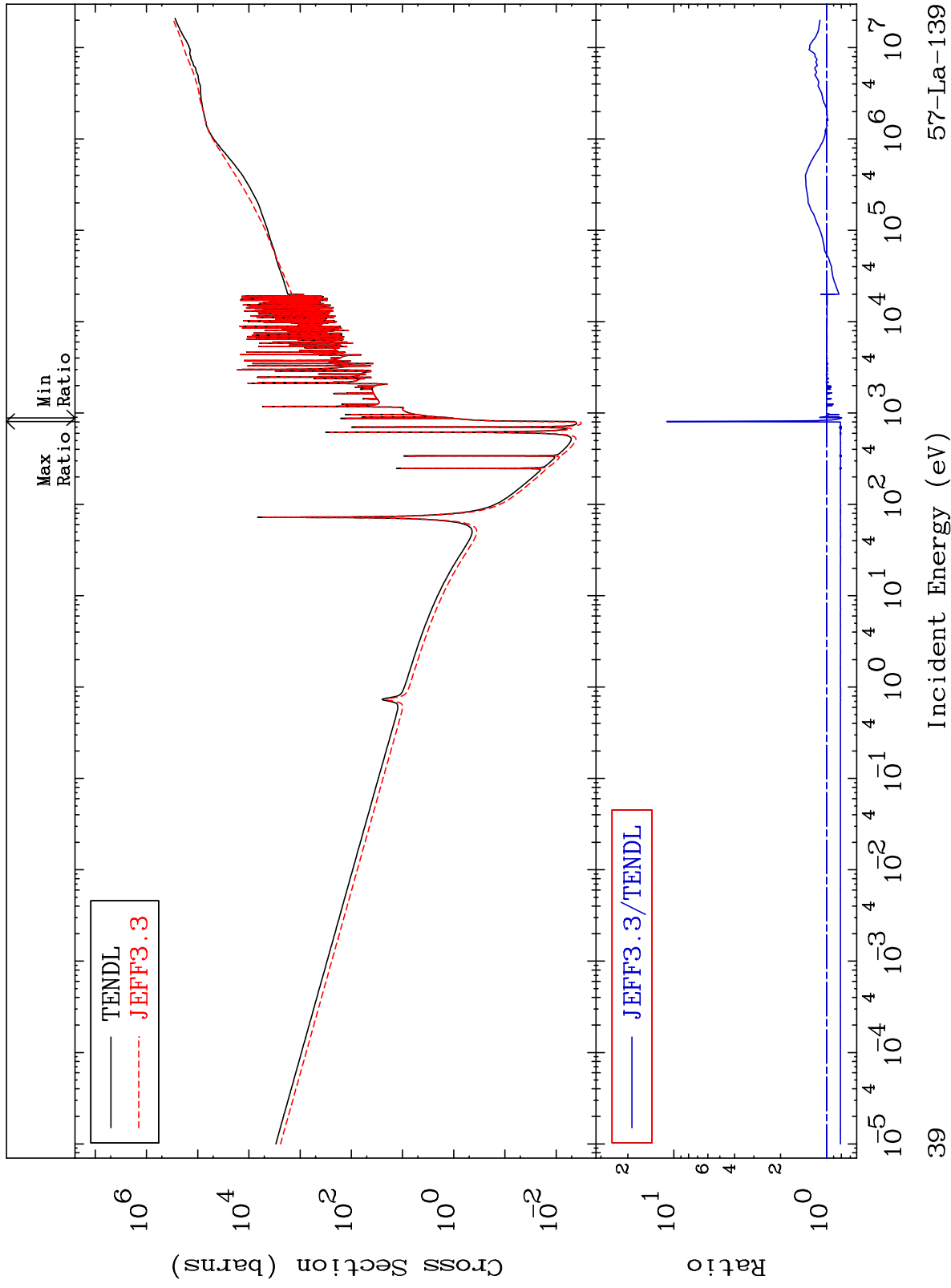
57-La-139
-16.90 To 37.39 %



MAT 5728

Dpa total (eV-barns)
Cross Section

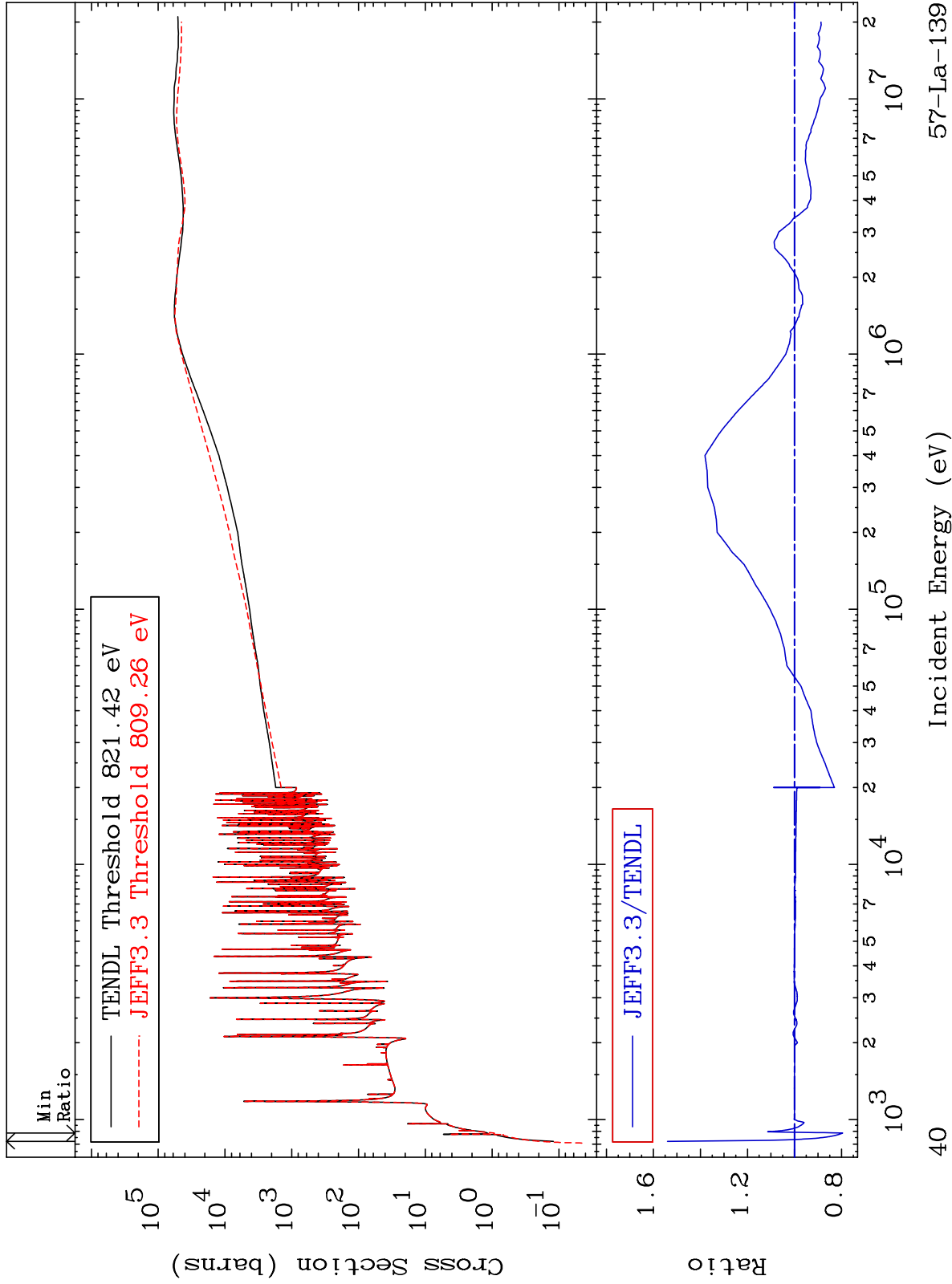
57-La-139
-20.45 To 1012. %



MAT 5728

Dpa elastic (mt2)
Cross Section

57-La-139
-20.49 To 53.98 %



57-La-139

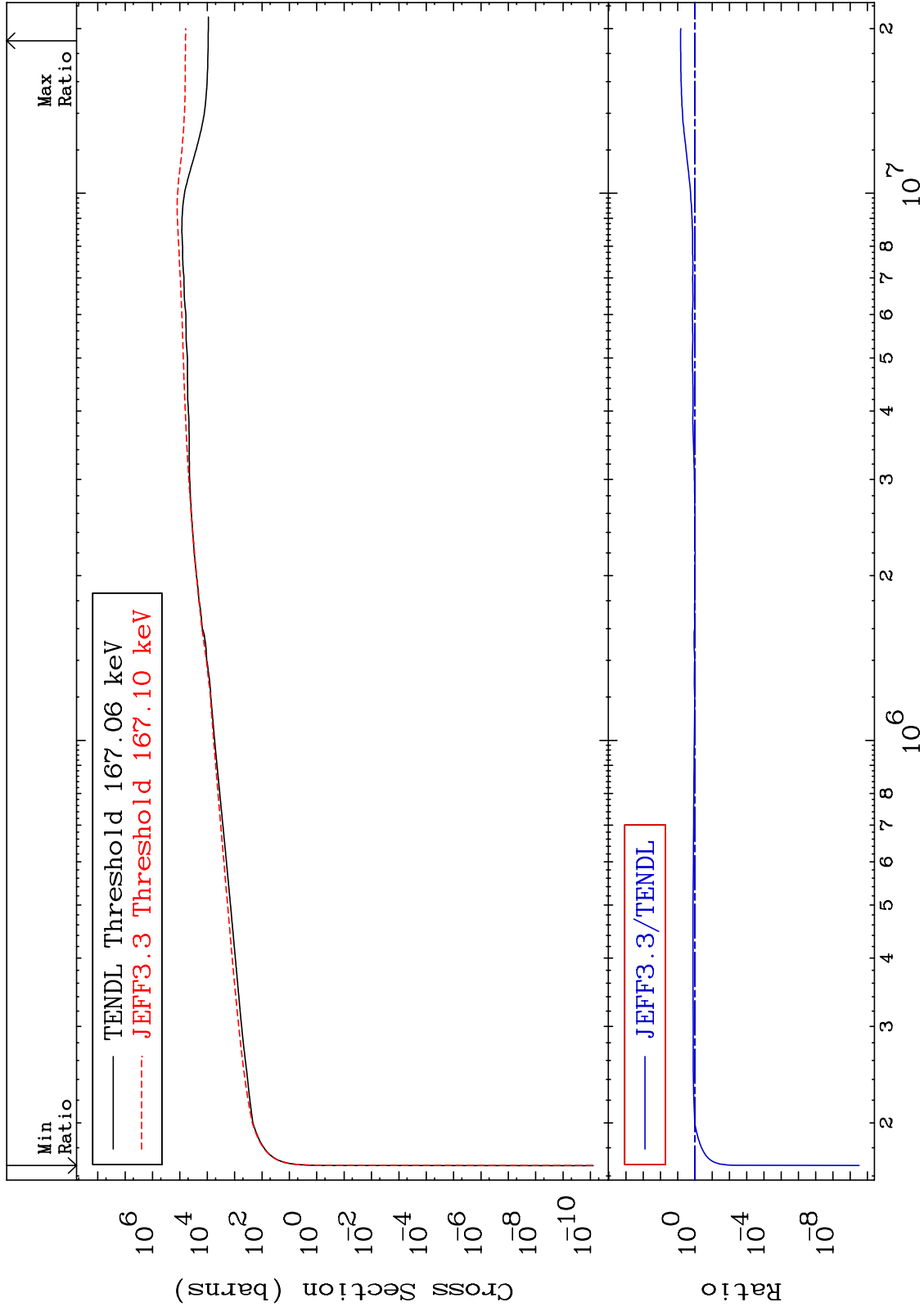
Incident Energy (eV)

40

MAT 5728

Dpa inelastic (mt51-91)
Cross Section

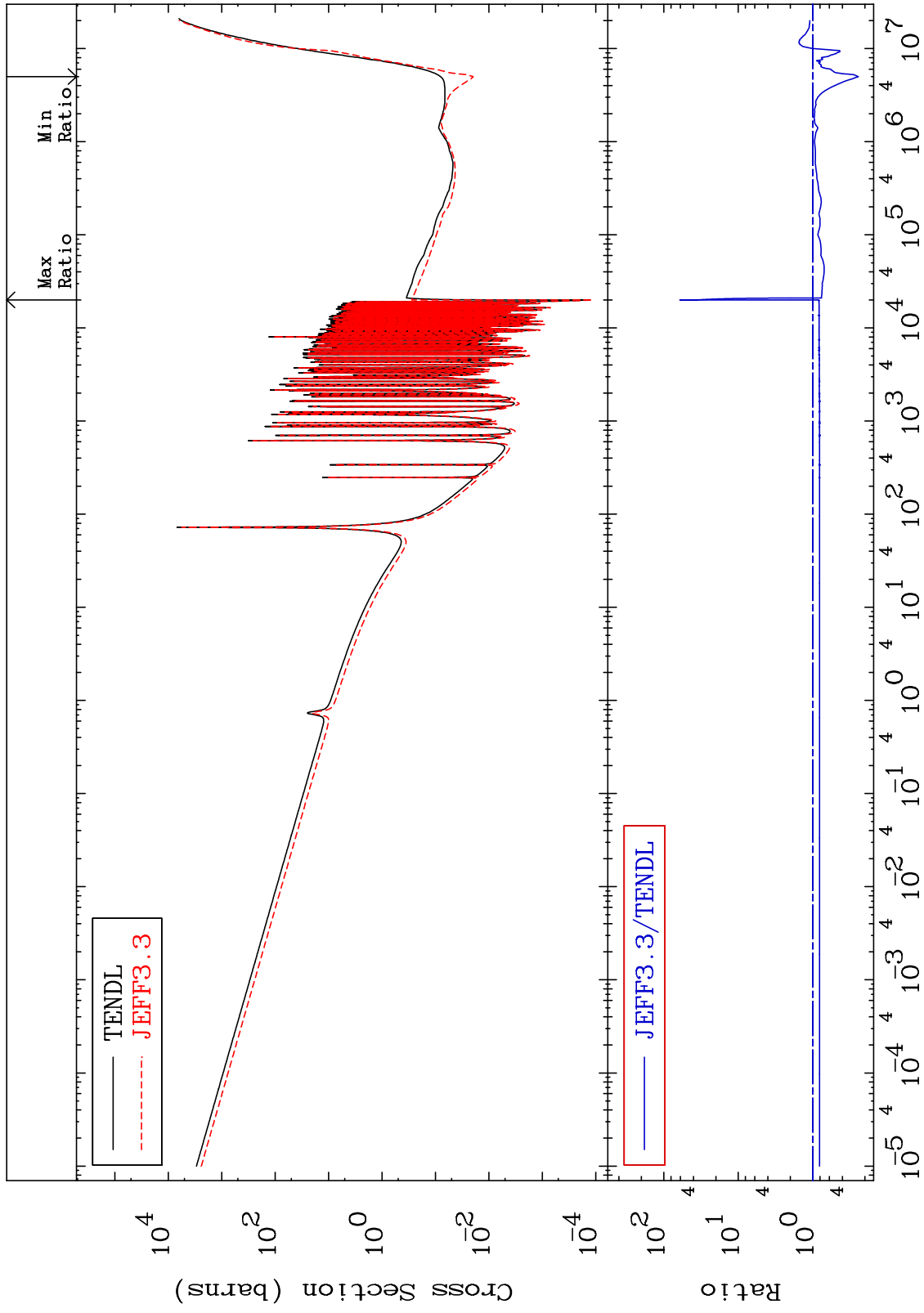
57-La-139
-100.0 To 575.2 %



MAT 5728

Dpa disappearance (mt102 -120)
Cross Section

57-La-139
-75.63 To 5956. %



42

Incident Energy (eV)

57-La-139