

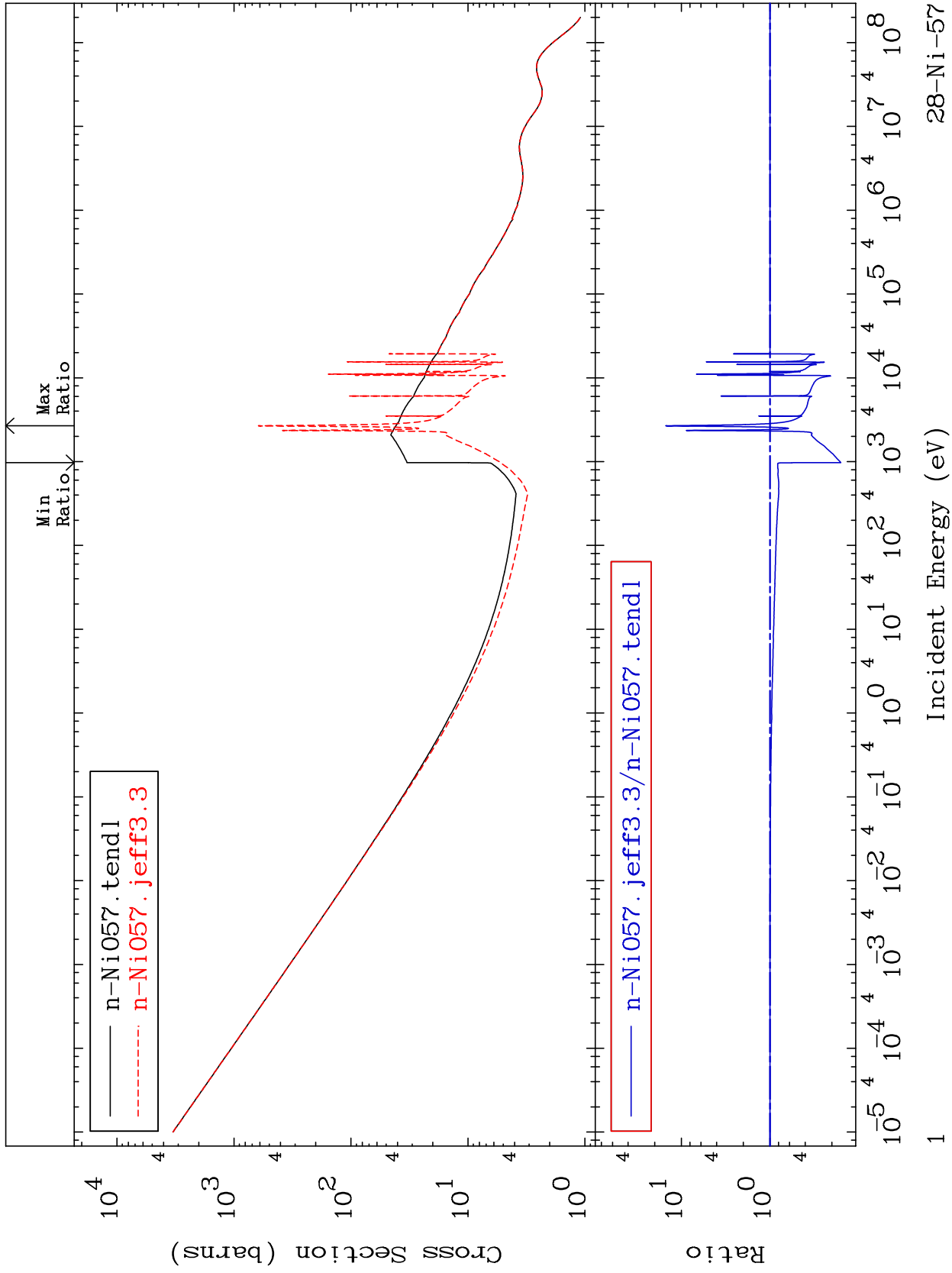
MAT 2822

Total

28-Ni-57

Cross Section

-84.17 To 1394. %



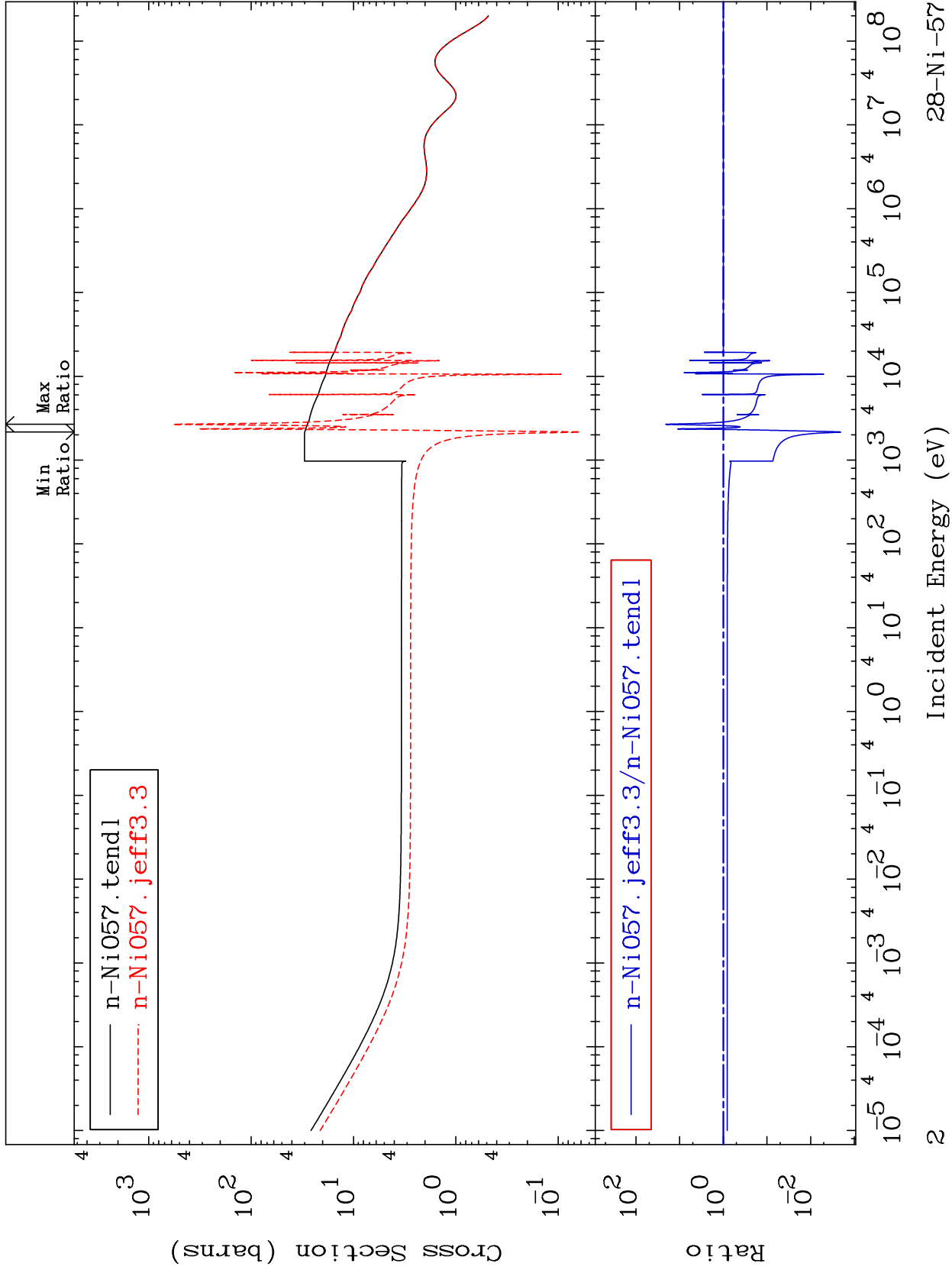
Incident Energy (eV)

28-Ni-57

MAT 2822

Elastic
Cross Section

28-Ni-57
-99.80 To 1959. %



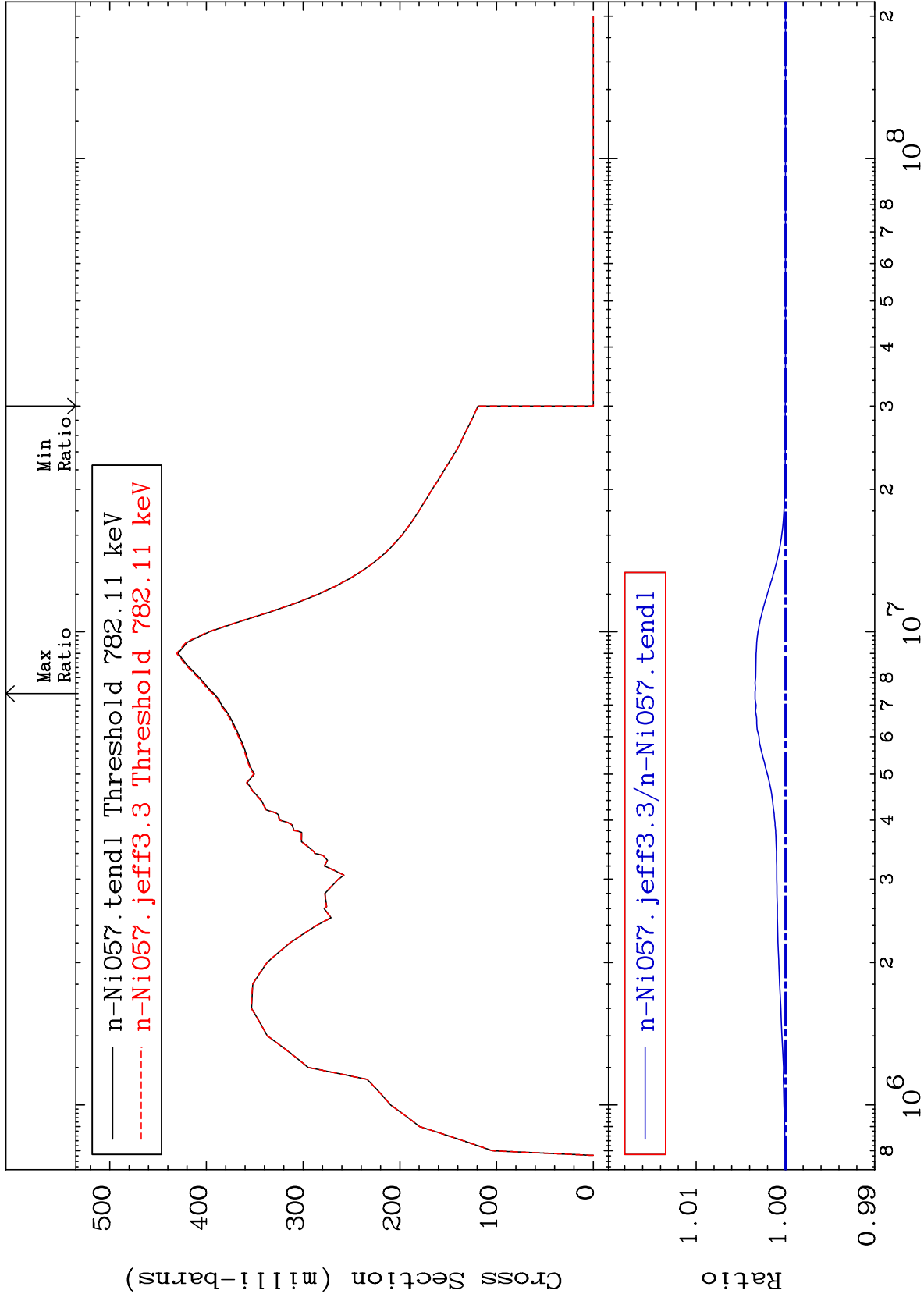
28-Ni-57

Incident Energy (eV)

2

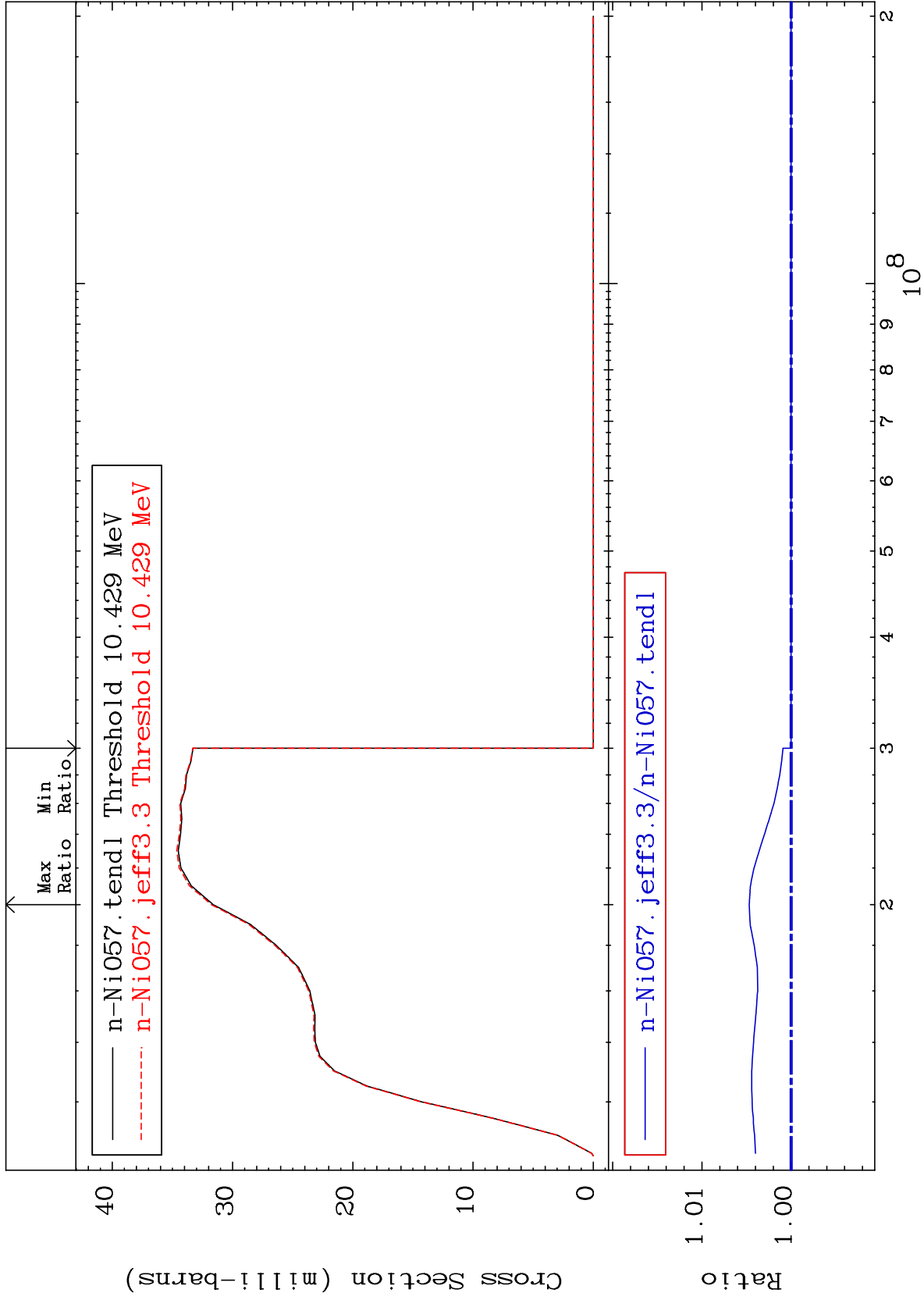
MAT 2822

Inelastic Cross Section
28-Ni-57
0.000 To 0.341 %



MAT 2822

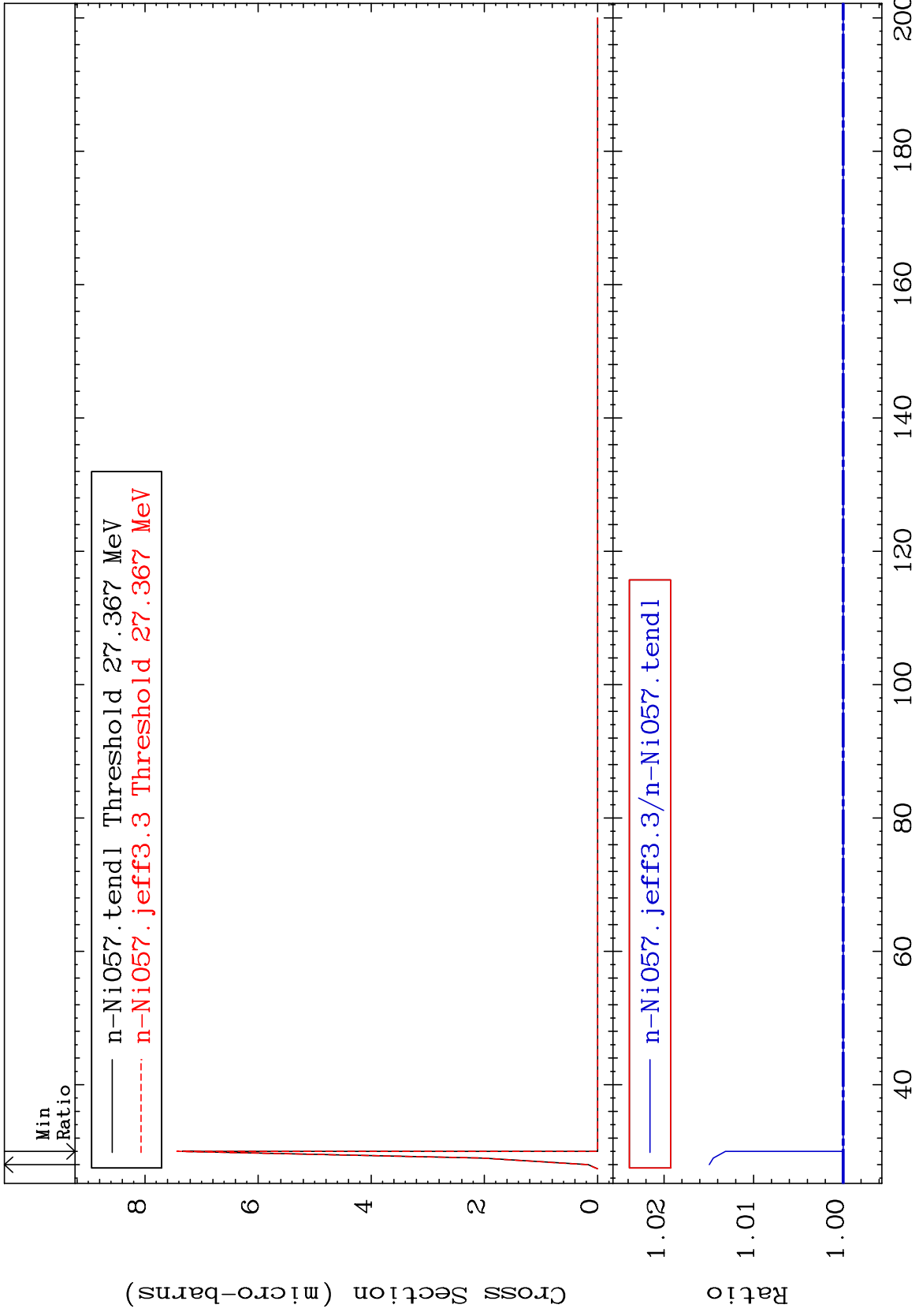
(n,2n) Cross Section
28-Ni-57
0.000 To 0.470 %



MAT 2822

(n,3n)
Cross Section

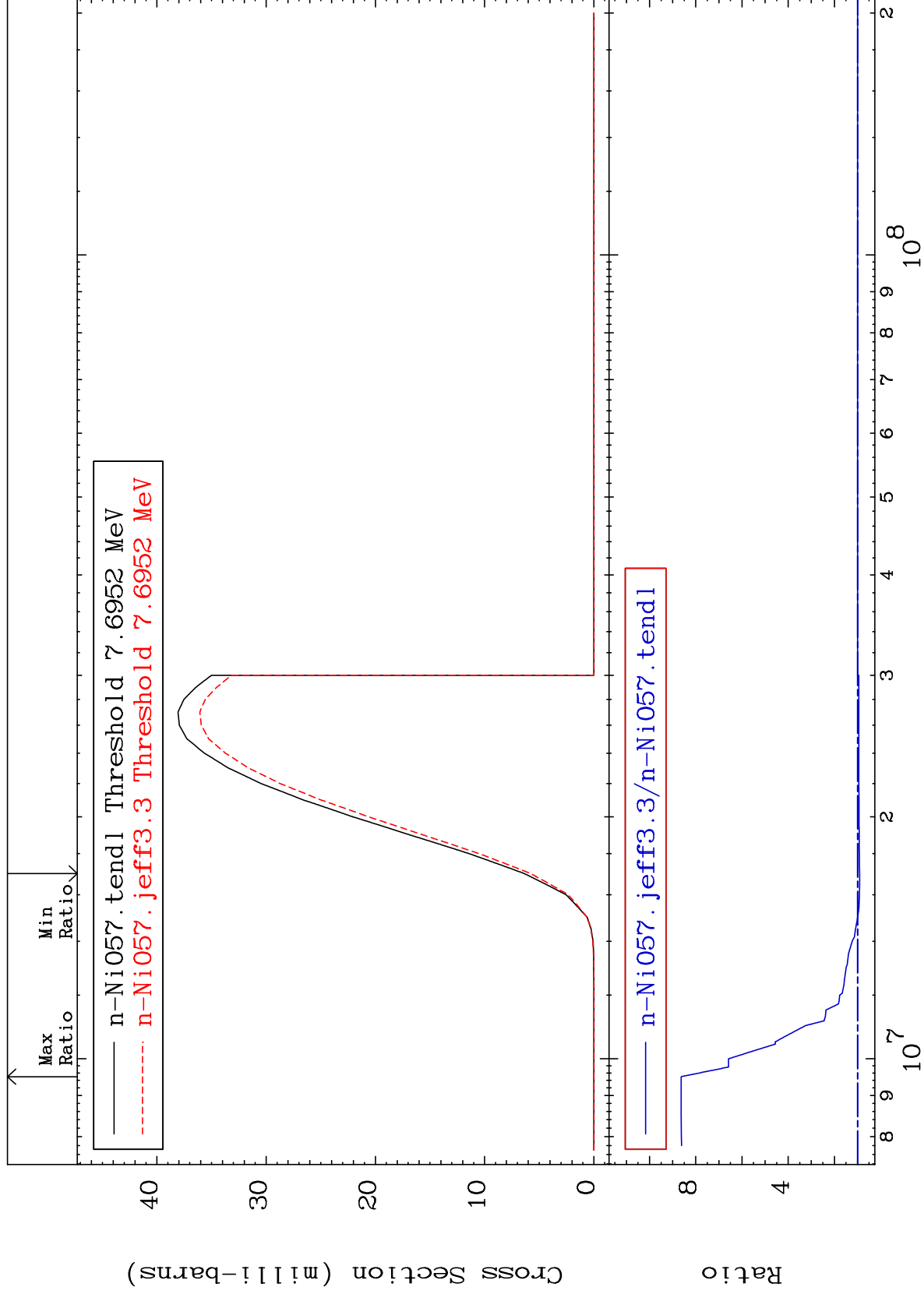
28-Ni-57
0.000 To 1.495 %



MAT 2822

(n,n') α
Cross Section

28-Ni-57
-9.117 To 763.0 %



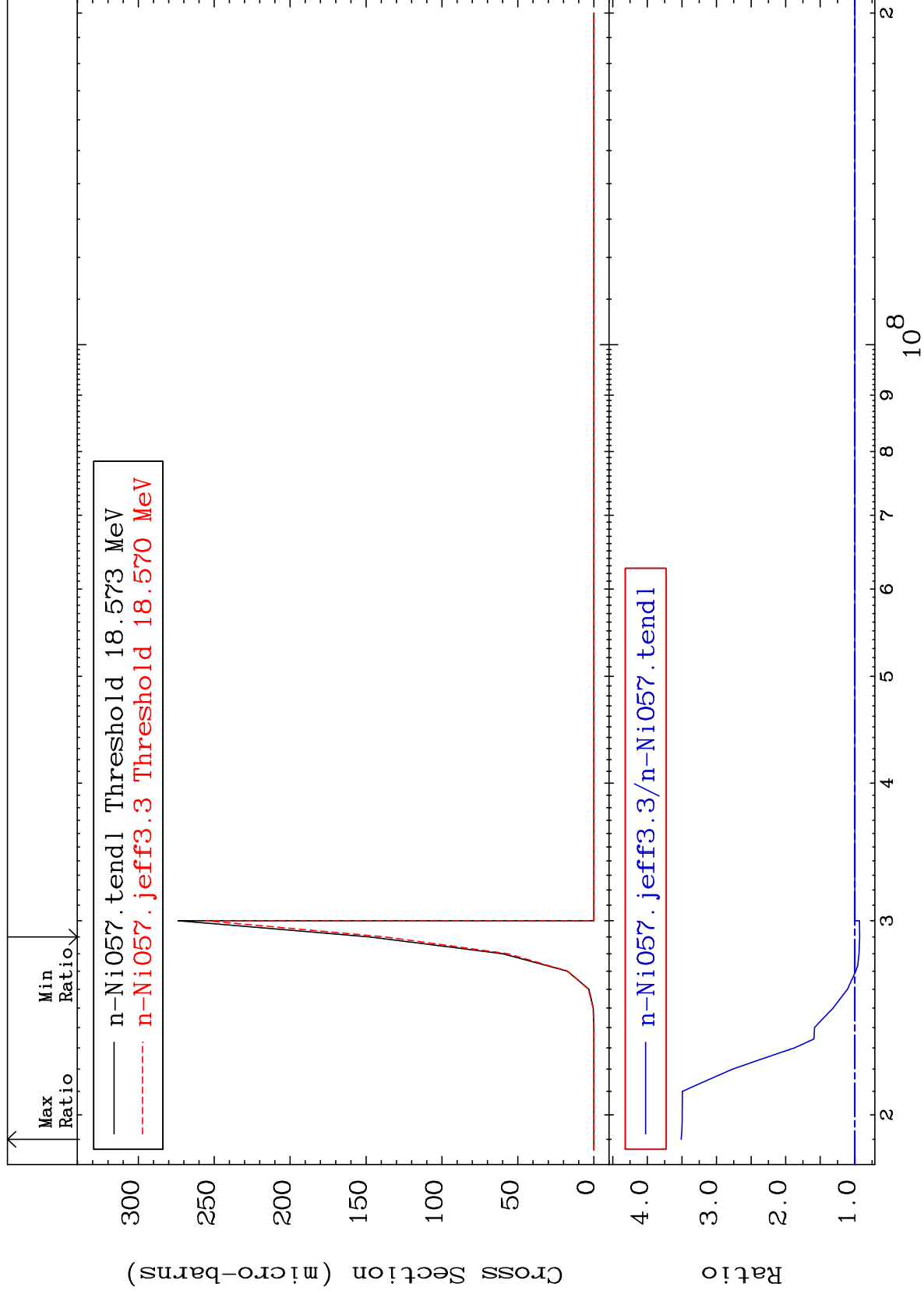
Incident Energy (eV)

28-Ni-57

MAT 2822

(n,2n) α
Cross Section

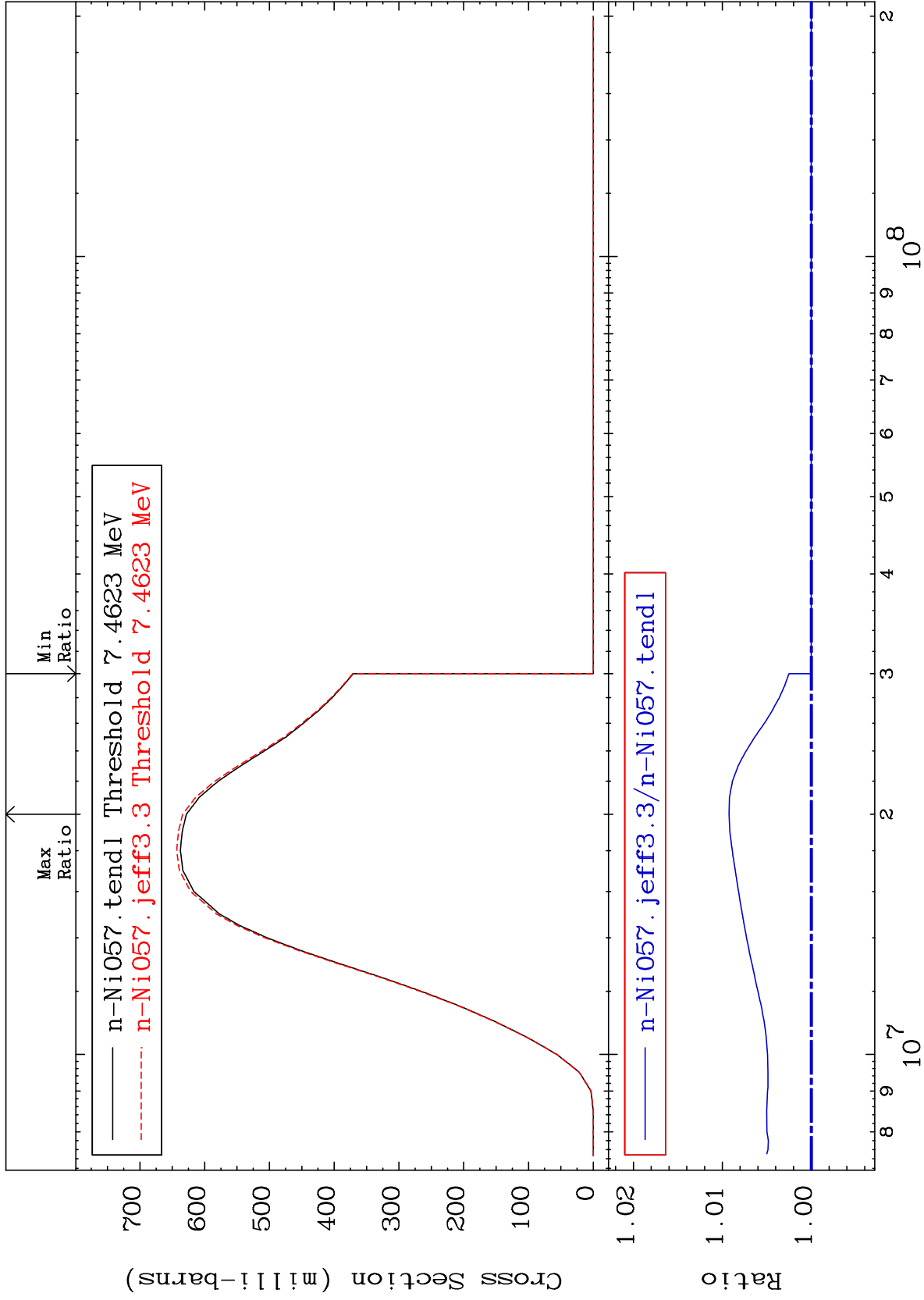
28-Ni-57
-6.956 To 251.1 %



MAT 2822

(n,n') p
Cross Section

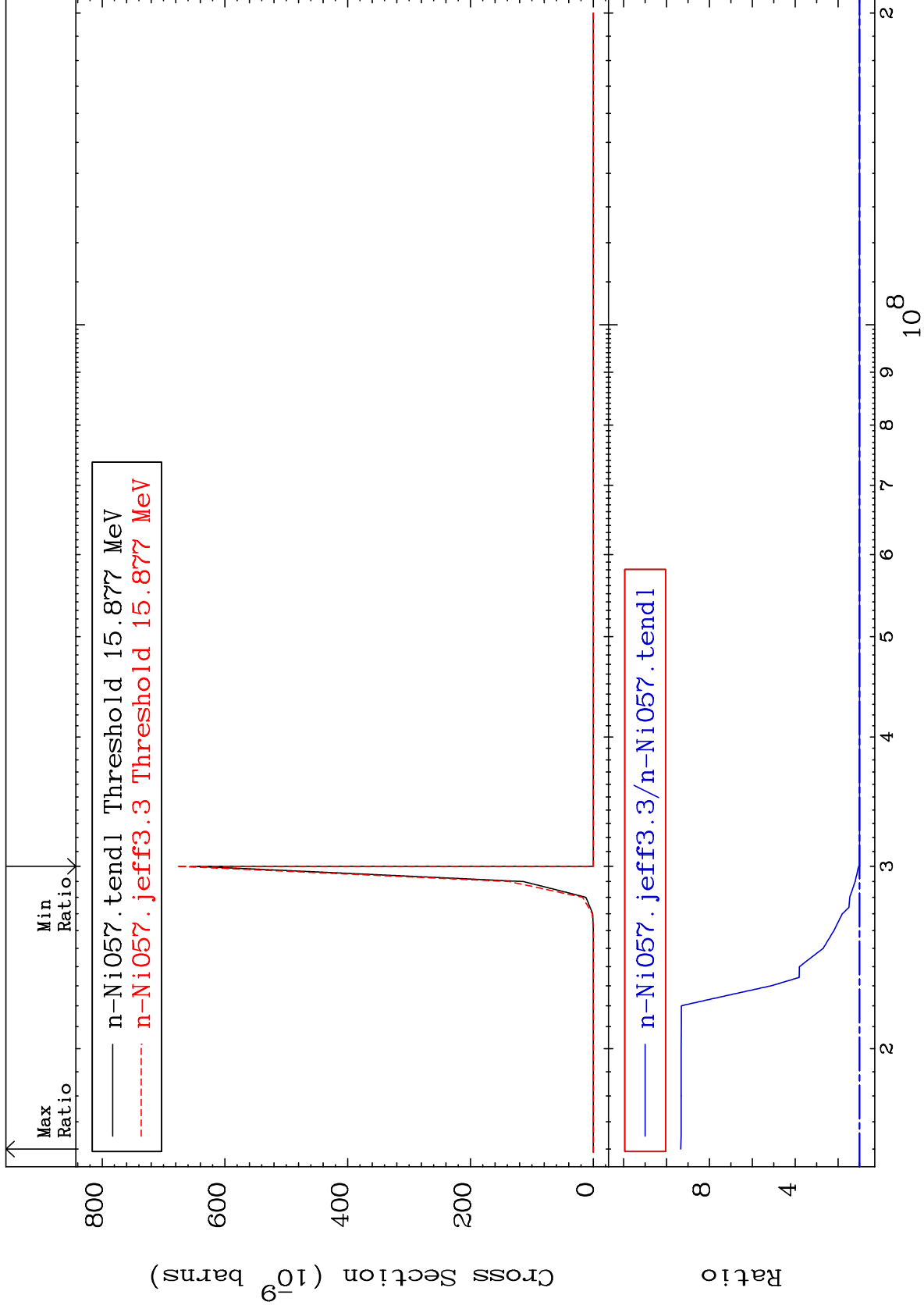
28-Ni-57
0.000 To 0.926 %

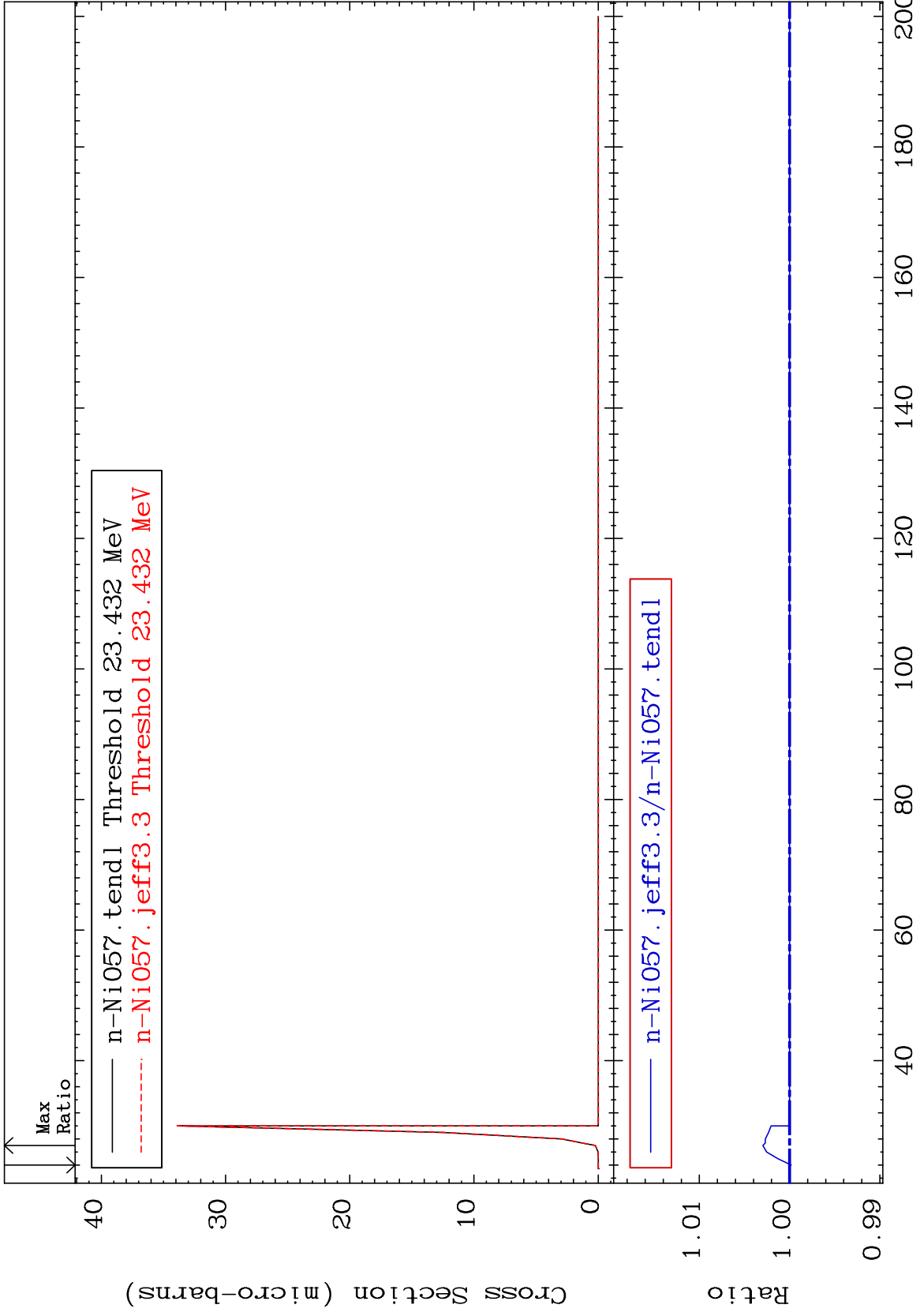


MAT 2822

(n, n') 2α
Cross Section

28-Ni-57
To 833.8 %
0.000

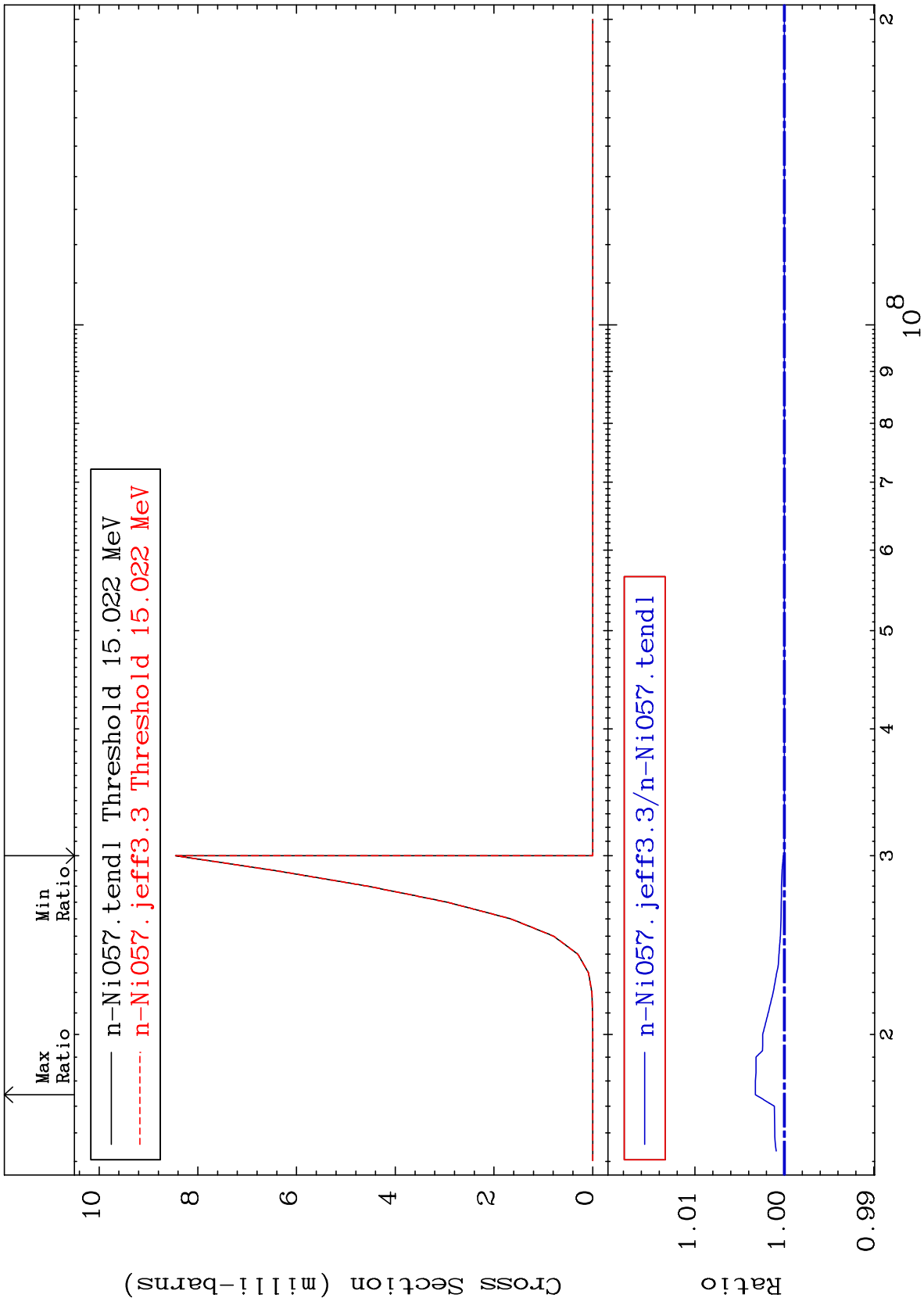




MAT 2822

(n, n') He-3
Cross Section

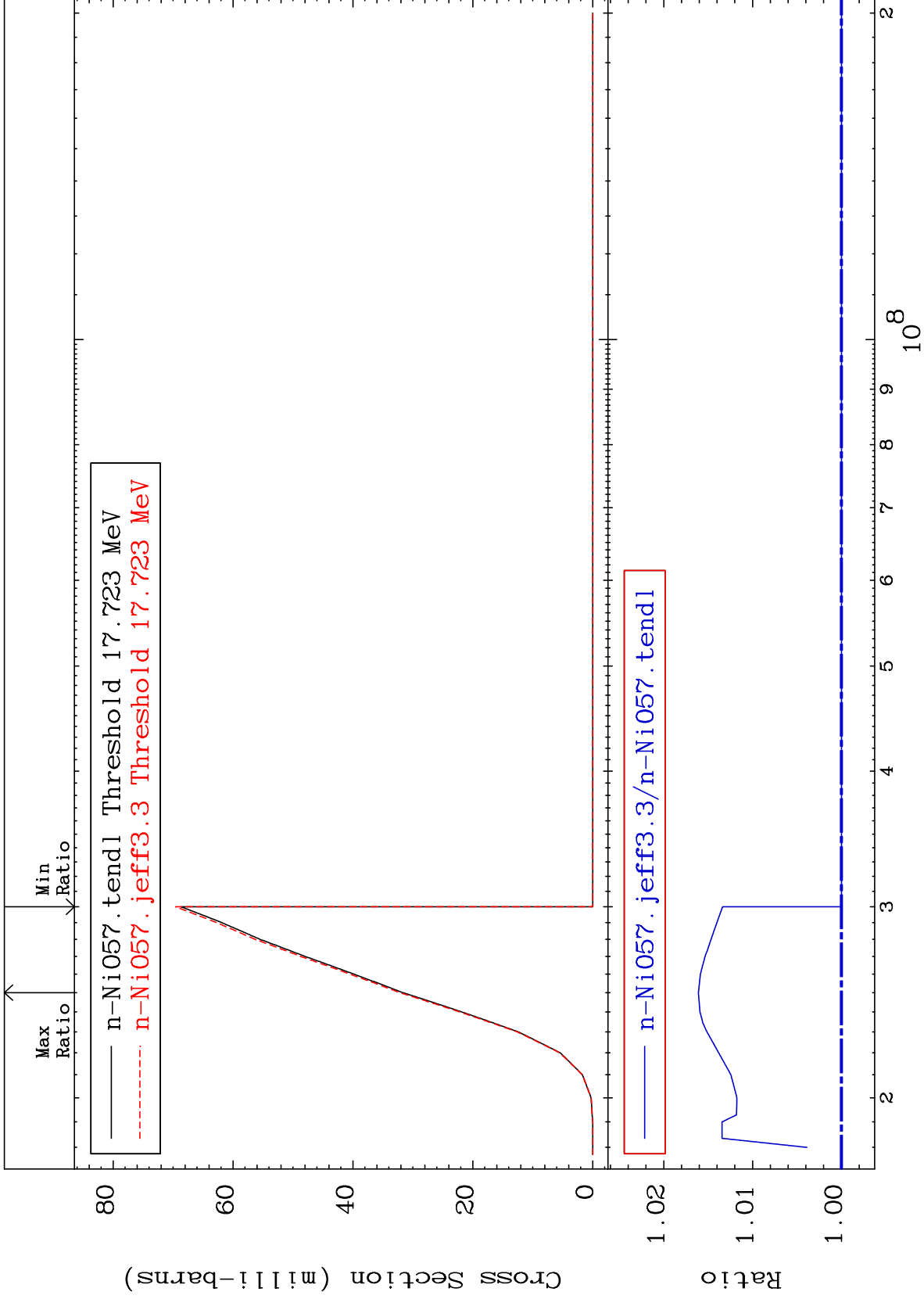
28-Ni-57
0.000 To 0.324 %



MAT 2822

(n,2n) p
Cross Section

28-Ni-57
To 1.610 %
0.000

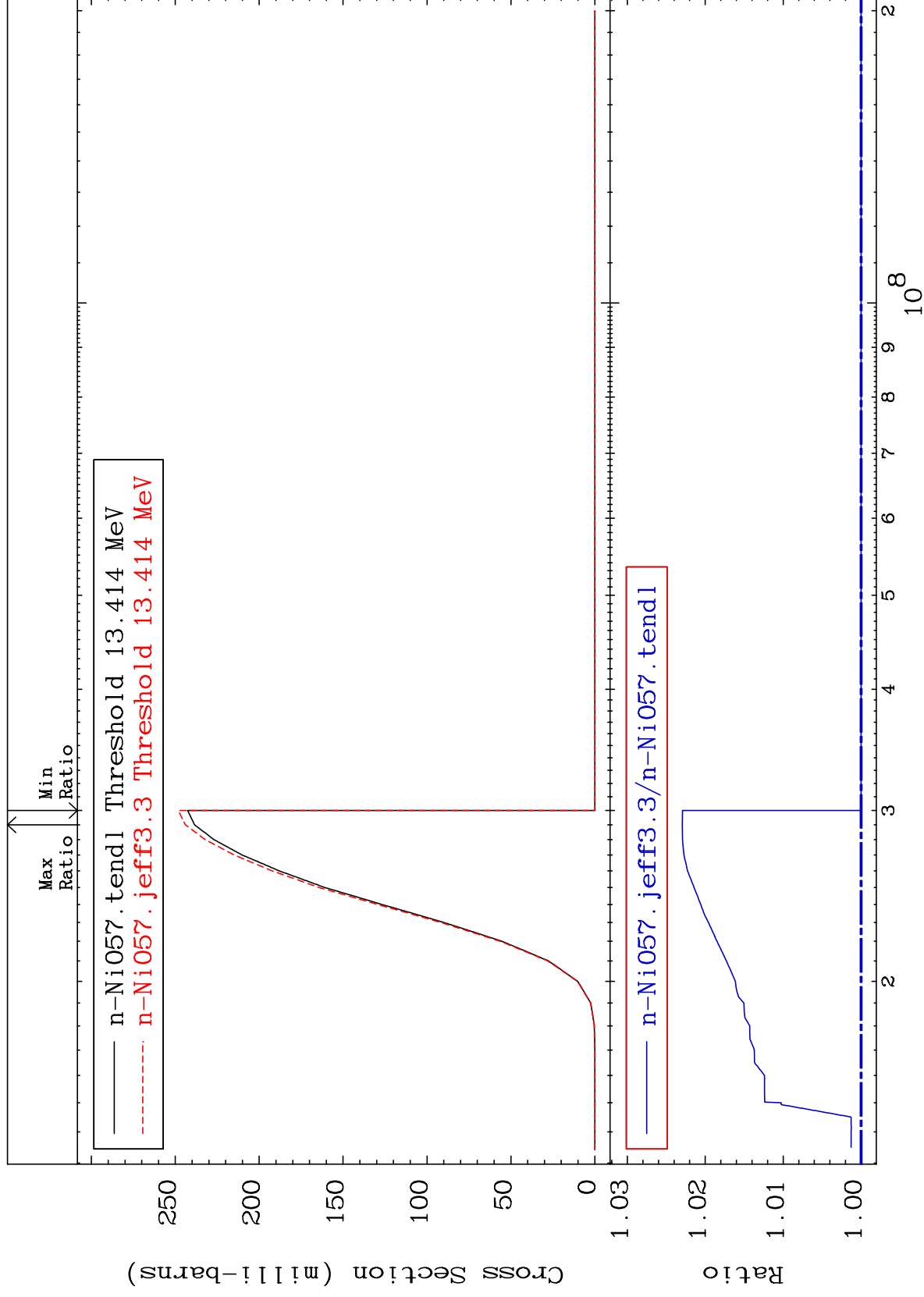


MAT 2822

(n,2n) p
Cross Section

28-Ni-57

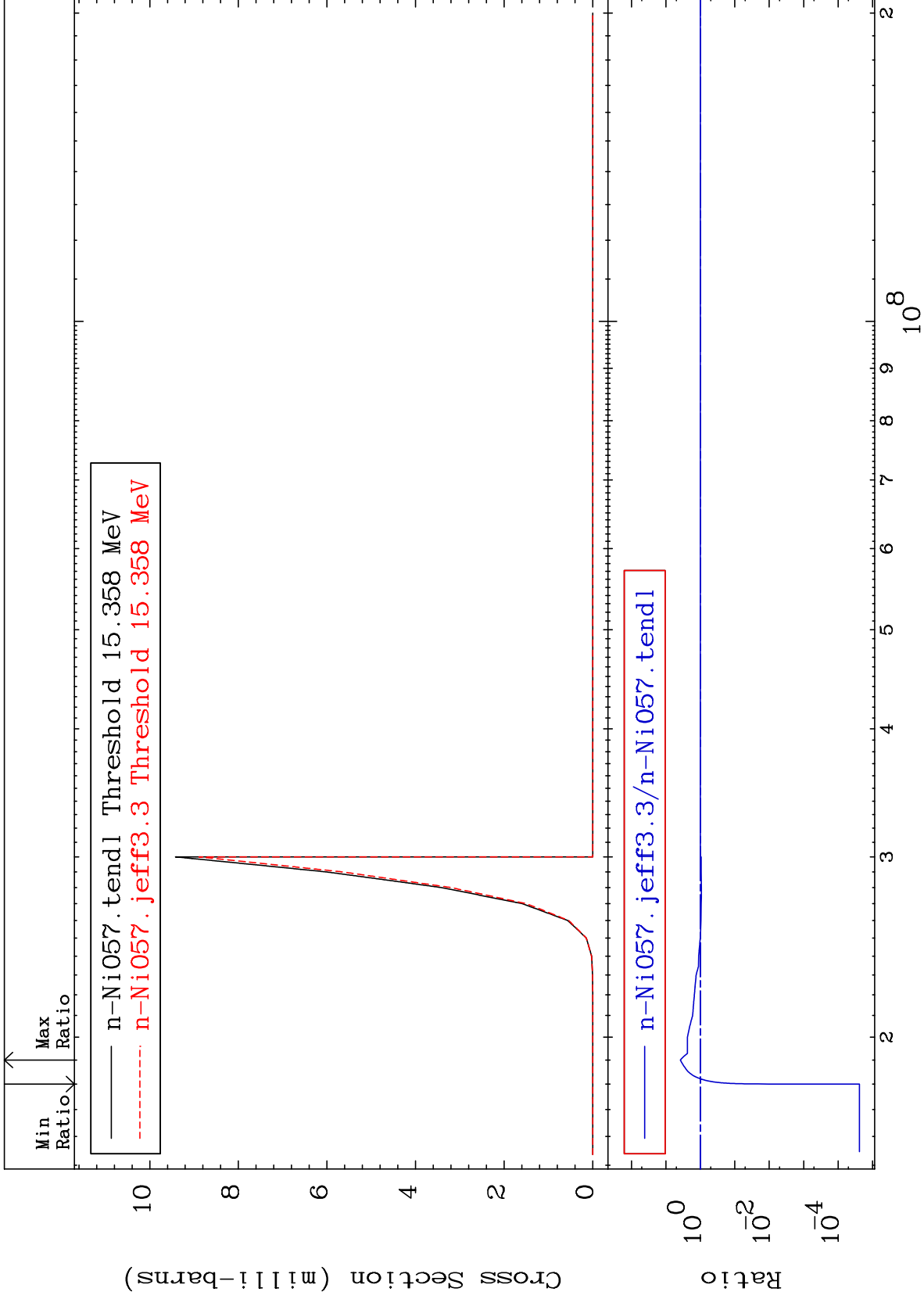
0.000 To 2.294 %



14

Incident Energy (eV)

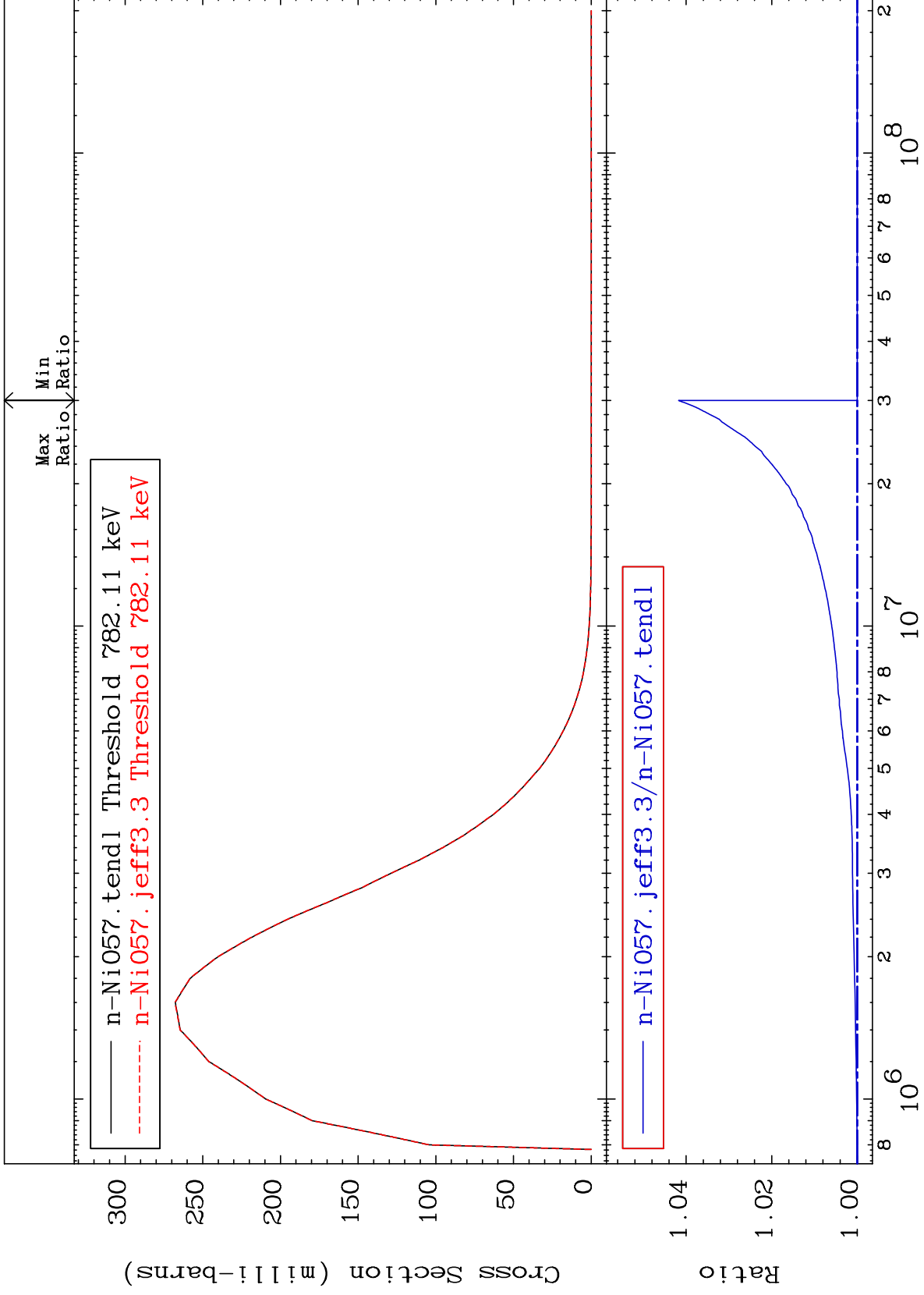
28-Ni-57



MAT 2822

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

28-Ni-57
0.000 To 4.176 %



16

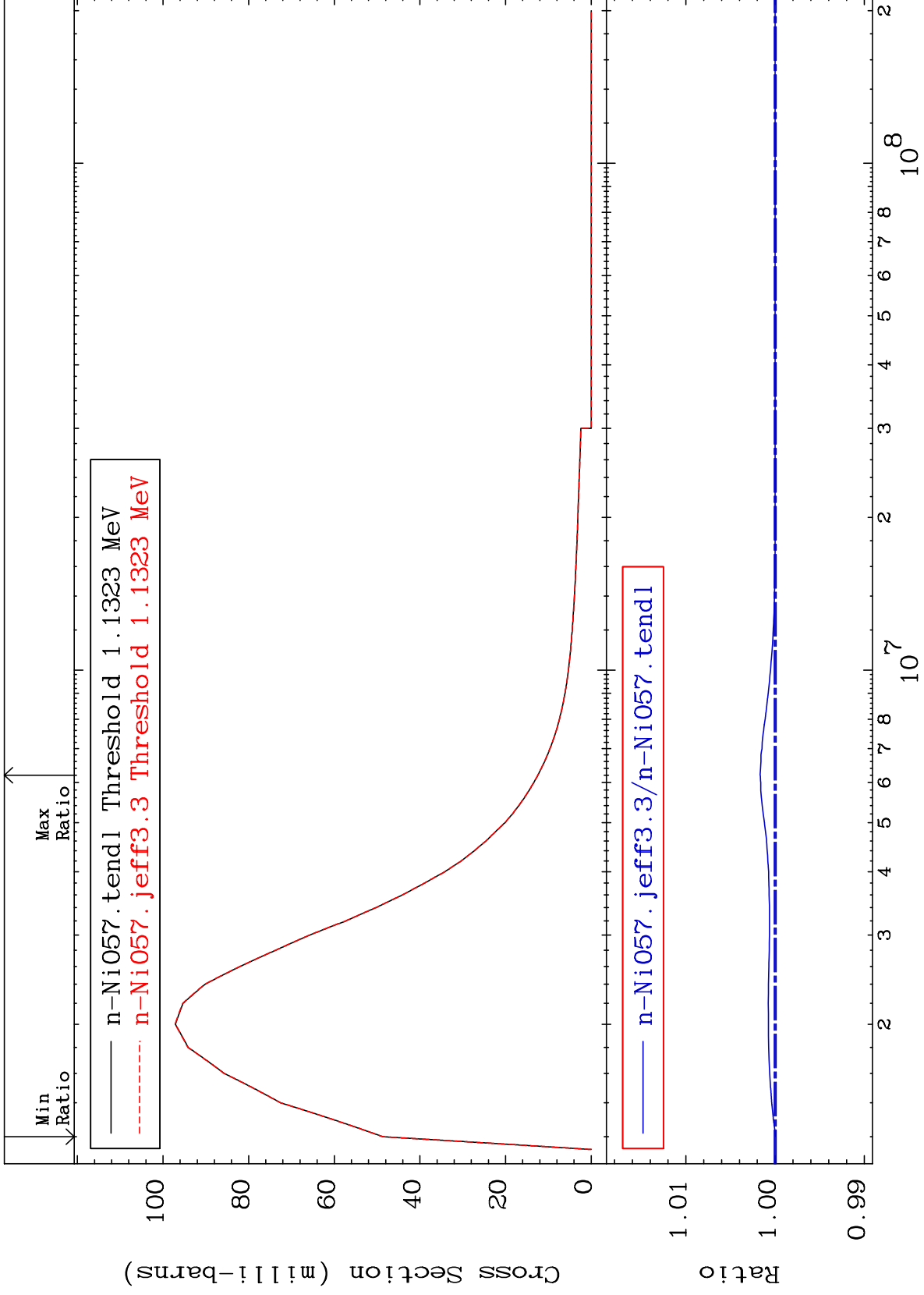
Incident Energy (eV)

28-Ni-57

MAT 2822

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

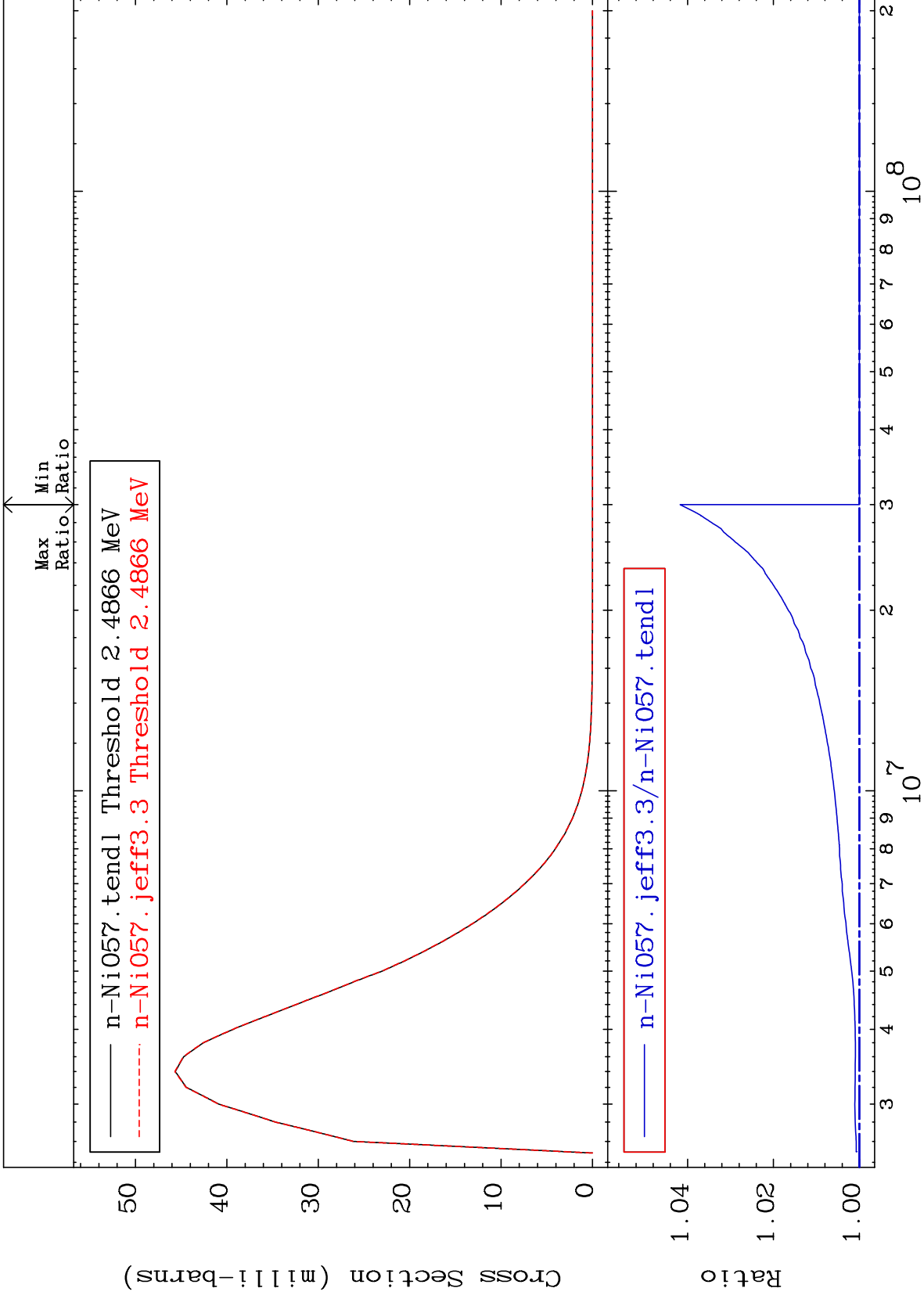
28-Ni-57
-0.006 To 0.168 %



MAT 2822

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

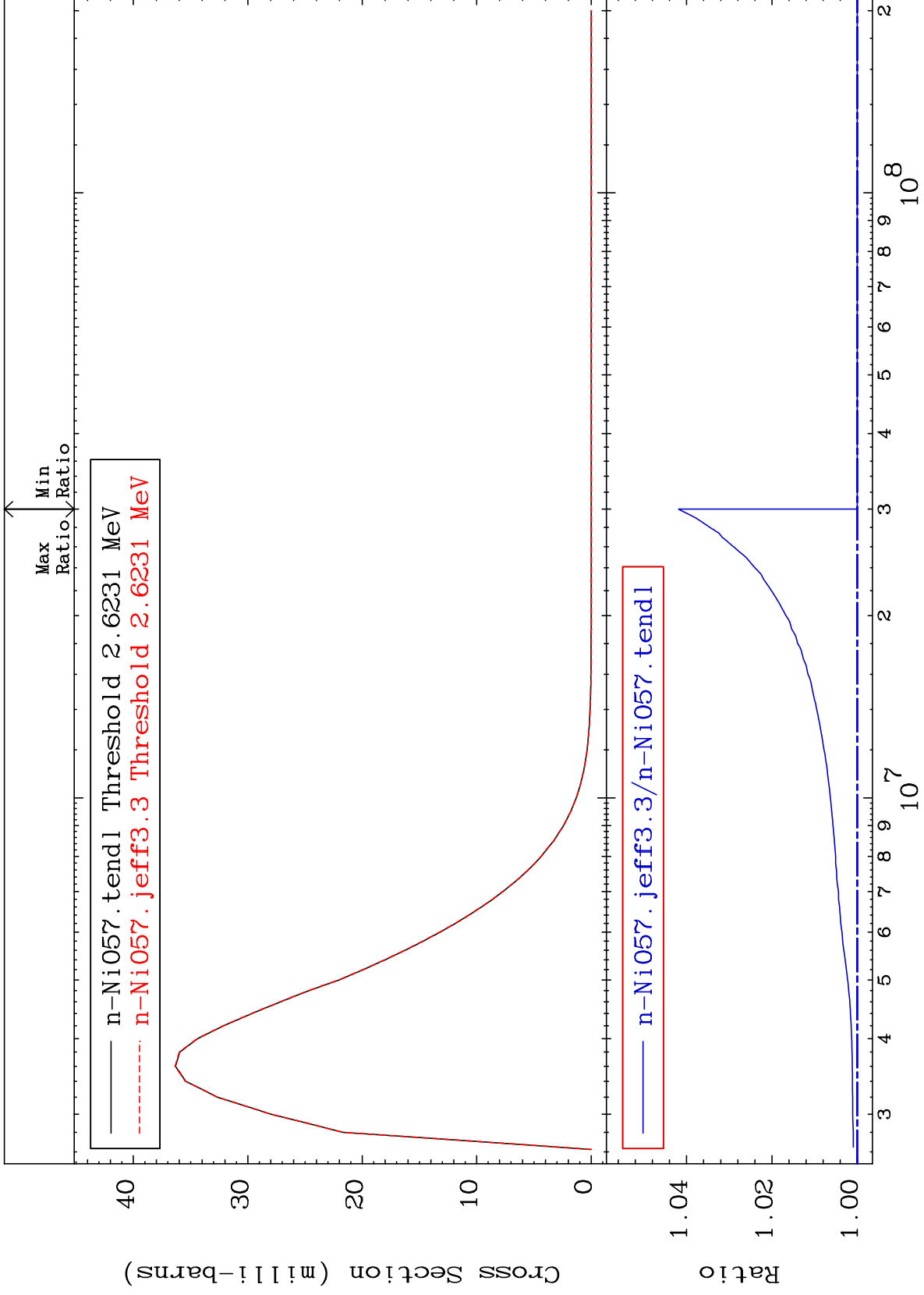
28-Ni-57
0.000 To 4.172 %



MAT 2822

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

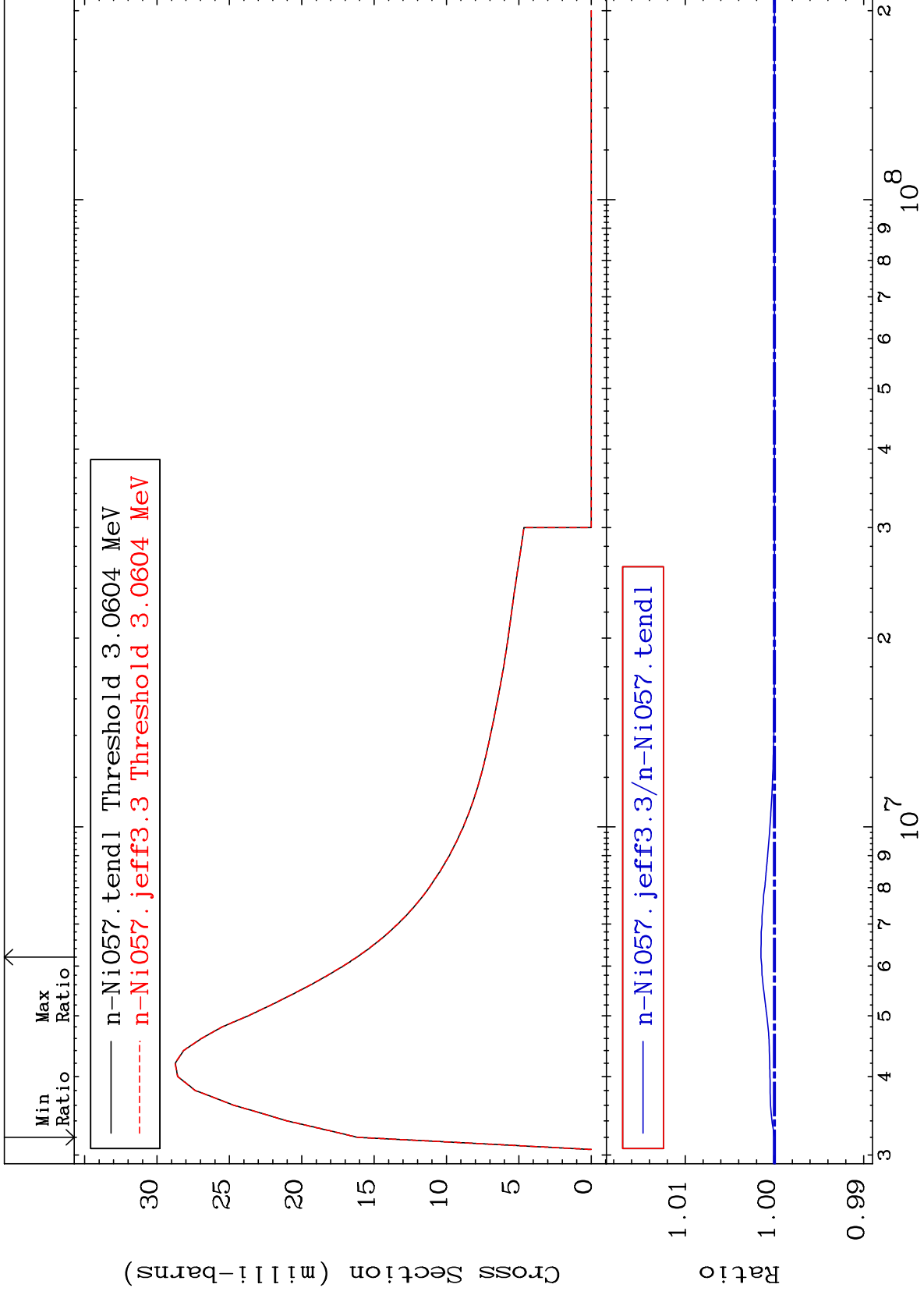
28-Ni-57
0.000 To 4.186 %



MAT 2822

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

28-Ni-57
-0.006 To 0.151 %



20

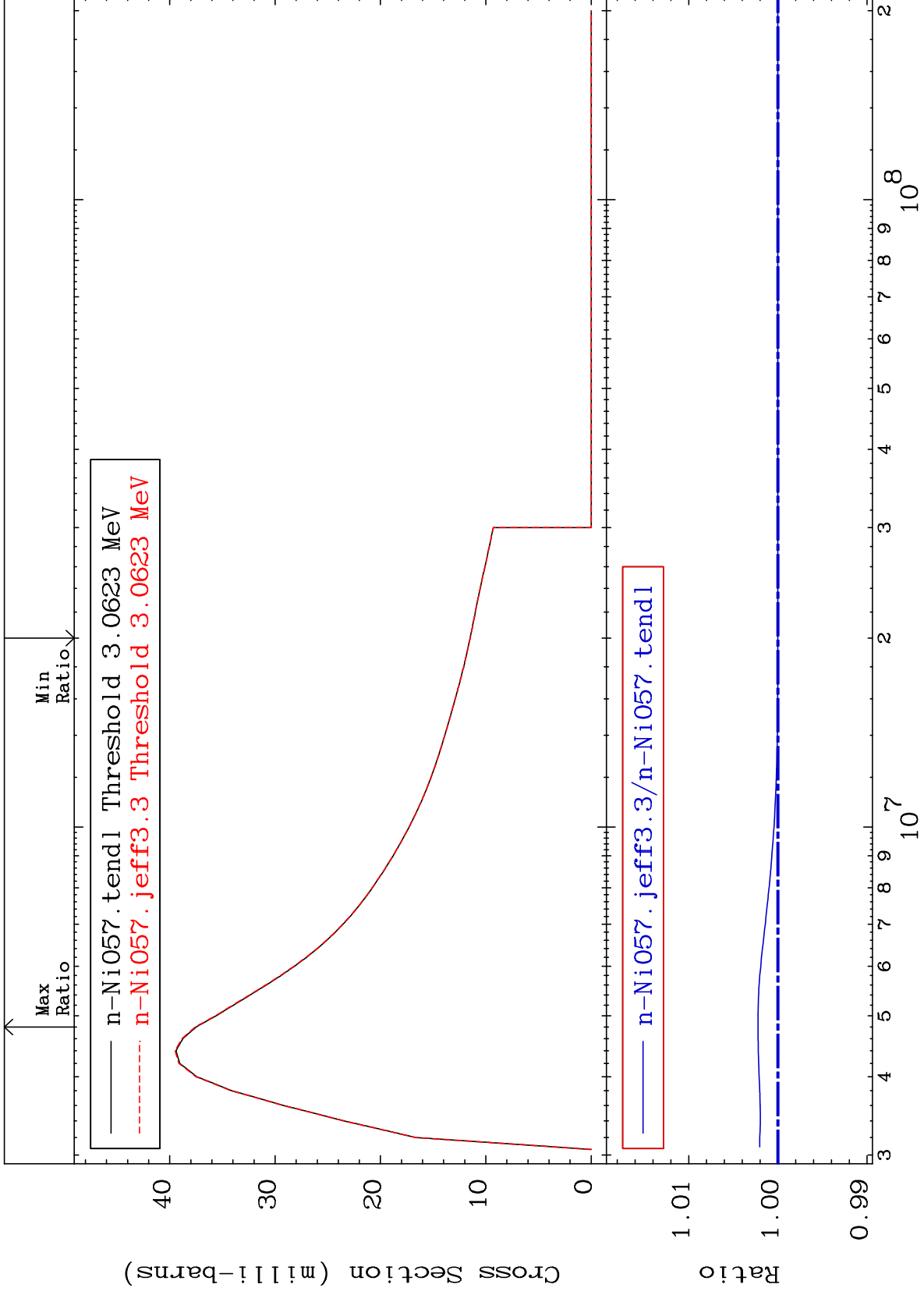
Incident Energy (eV)

28-Ni-57

MAT 2822

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

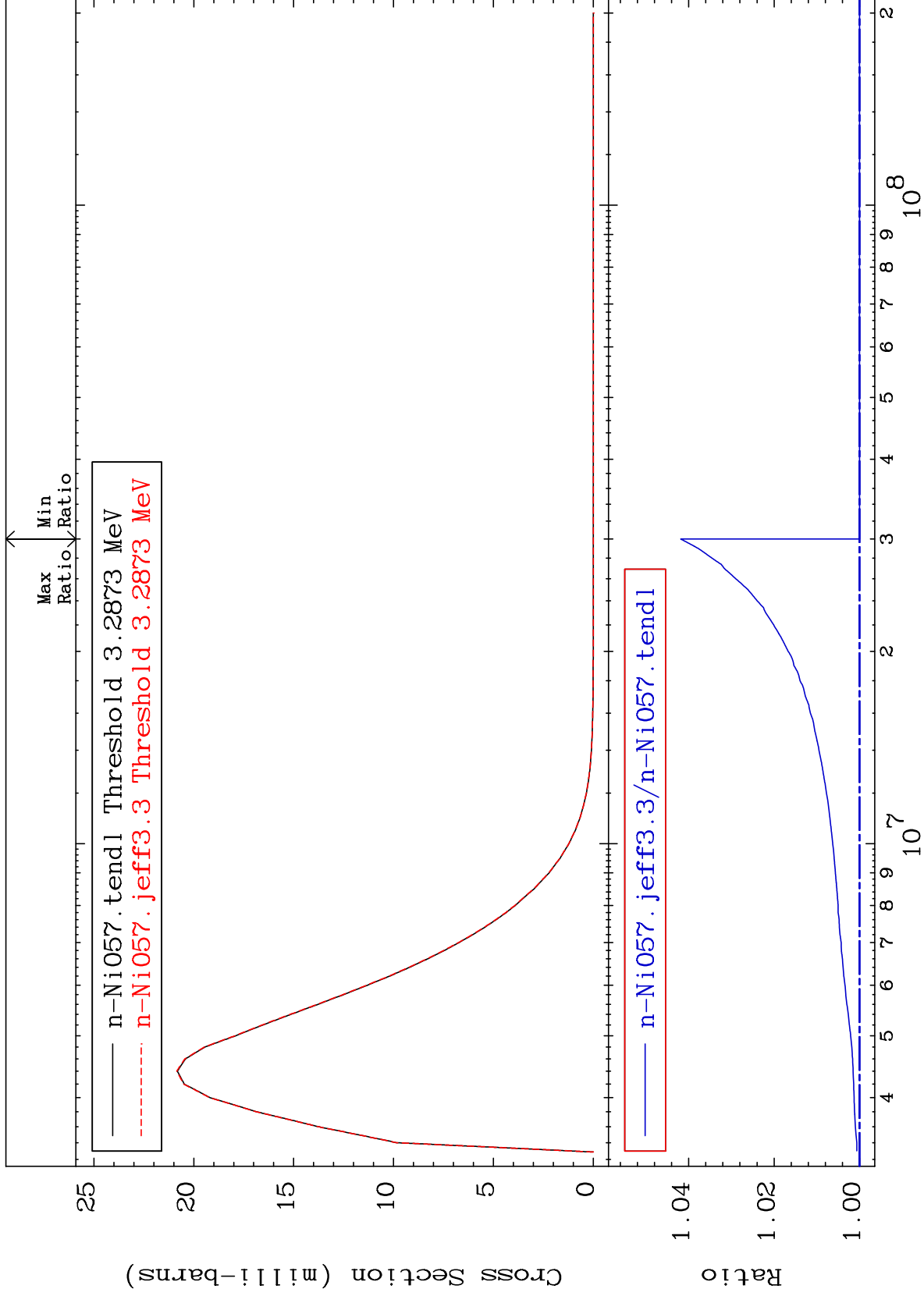
28-Ni-57
0.000 To 0.223 %



MAT 2822

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

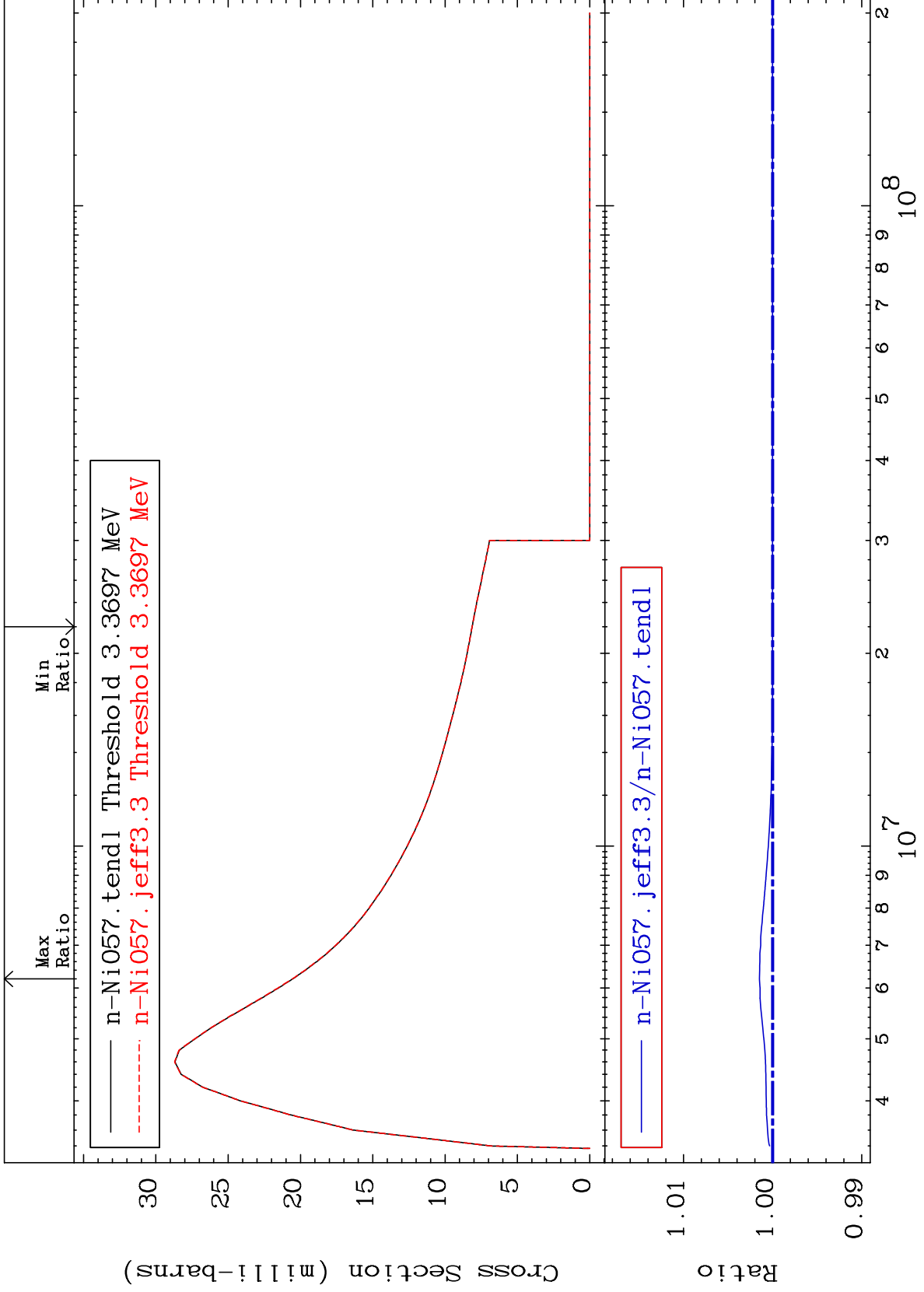
28-Ni-57
To 4.185 %



MAT 2822

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

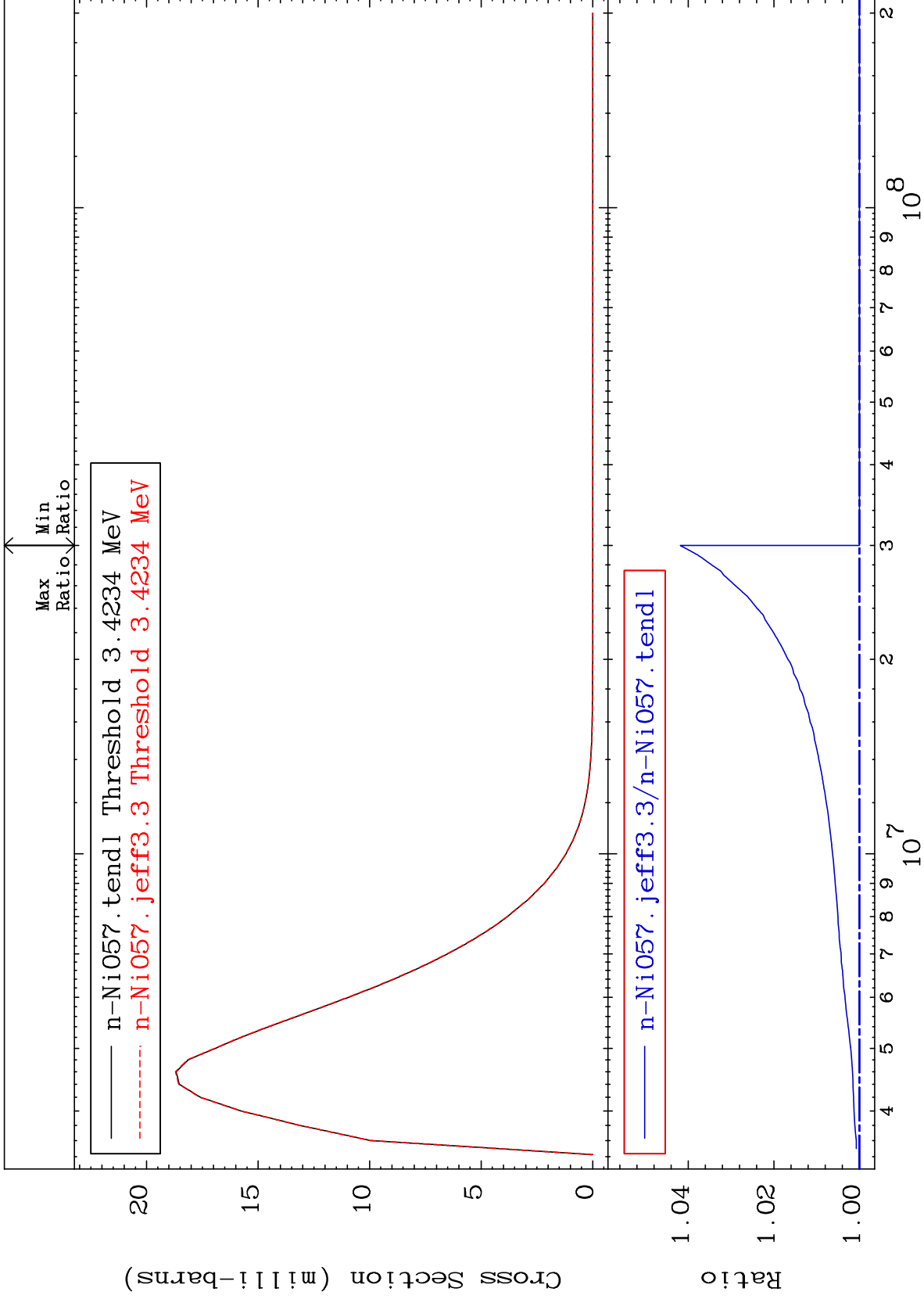
28-Ni-57
To 0.149 %



MAT 2822

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

28-Ni-57
0.000 To 4.185 %



24

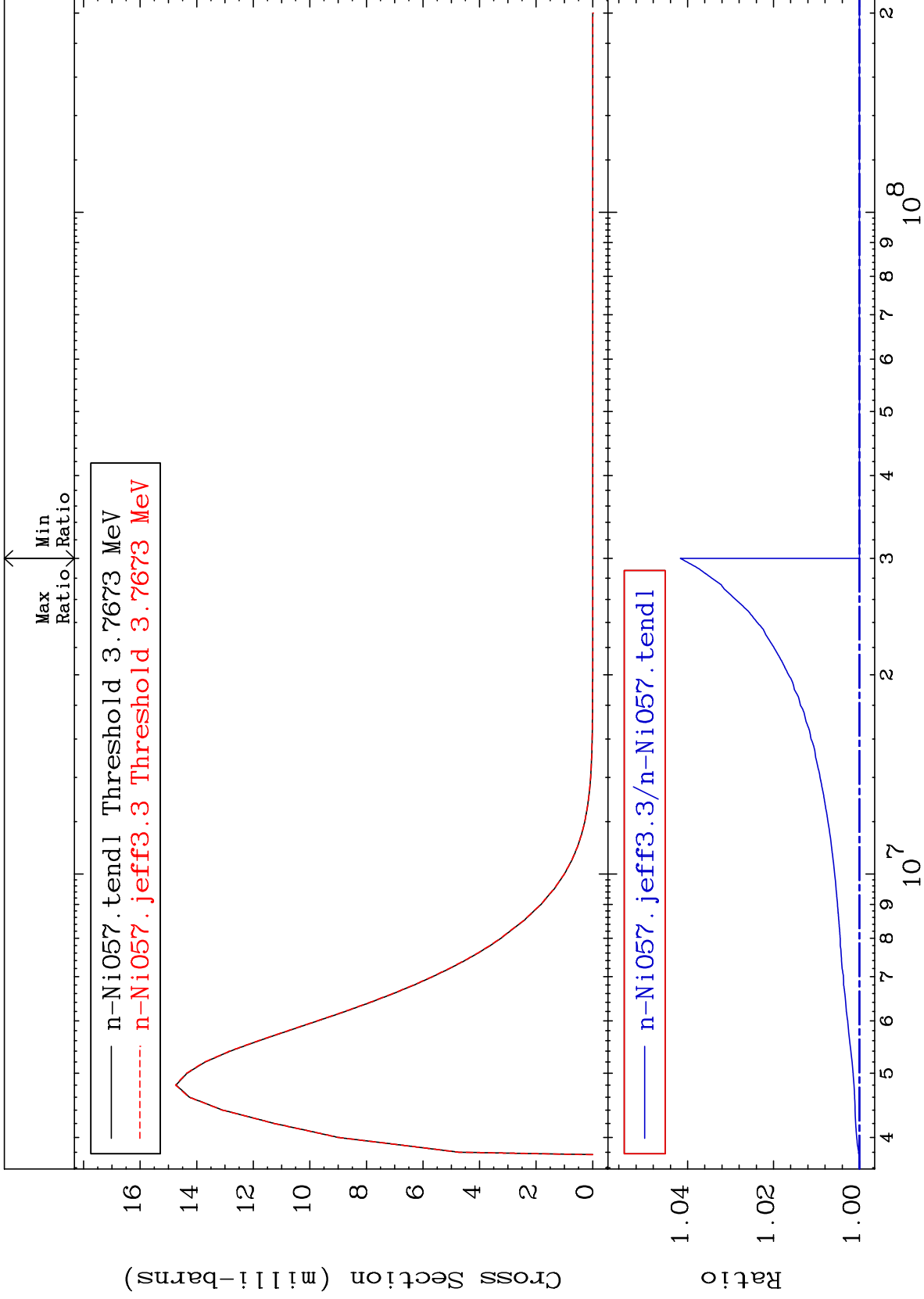
28-Ni-57

28-Ni-57

MAT 2822

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

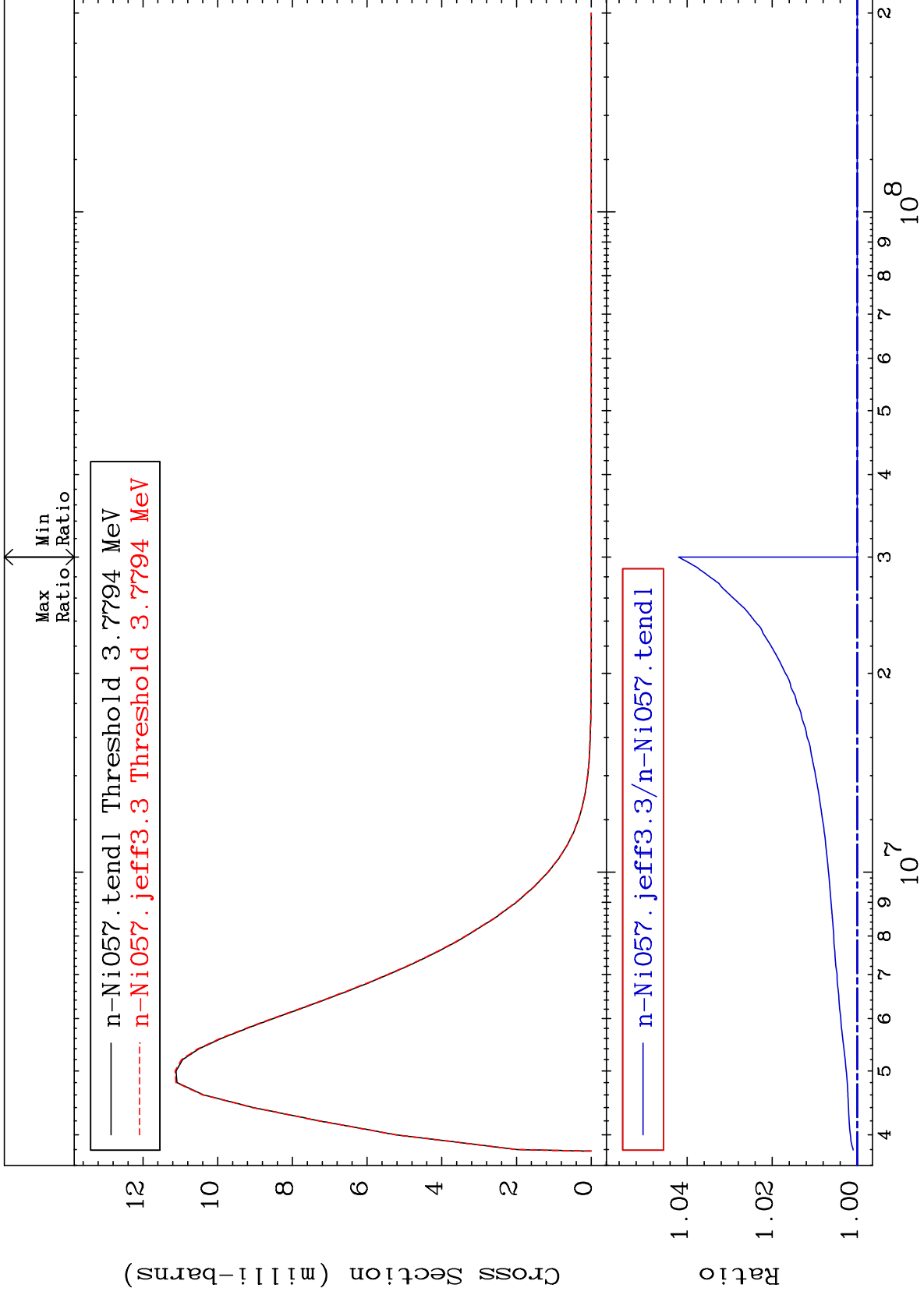
28-Ni-57
0.000 To 4.169 %



MAT 2822

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

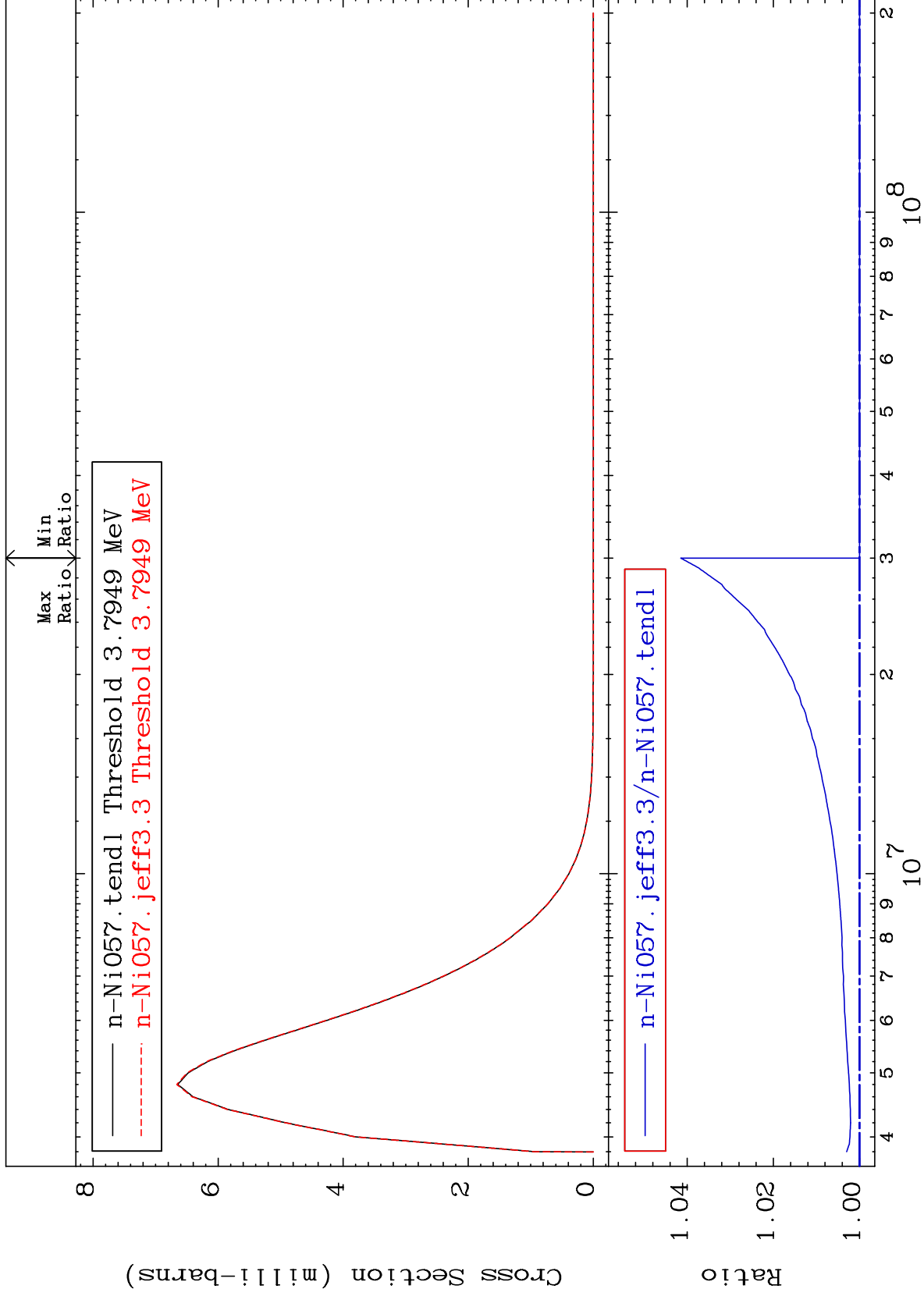
28-Ni-57
0.000 To 4.201 %



MAT 2822

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

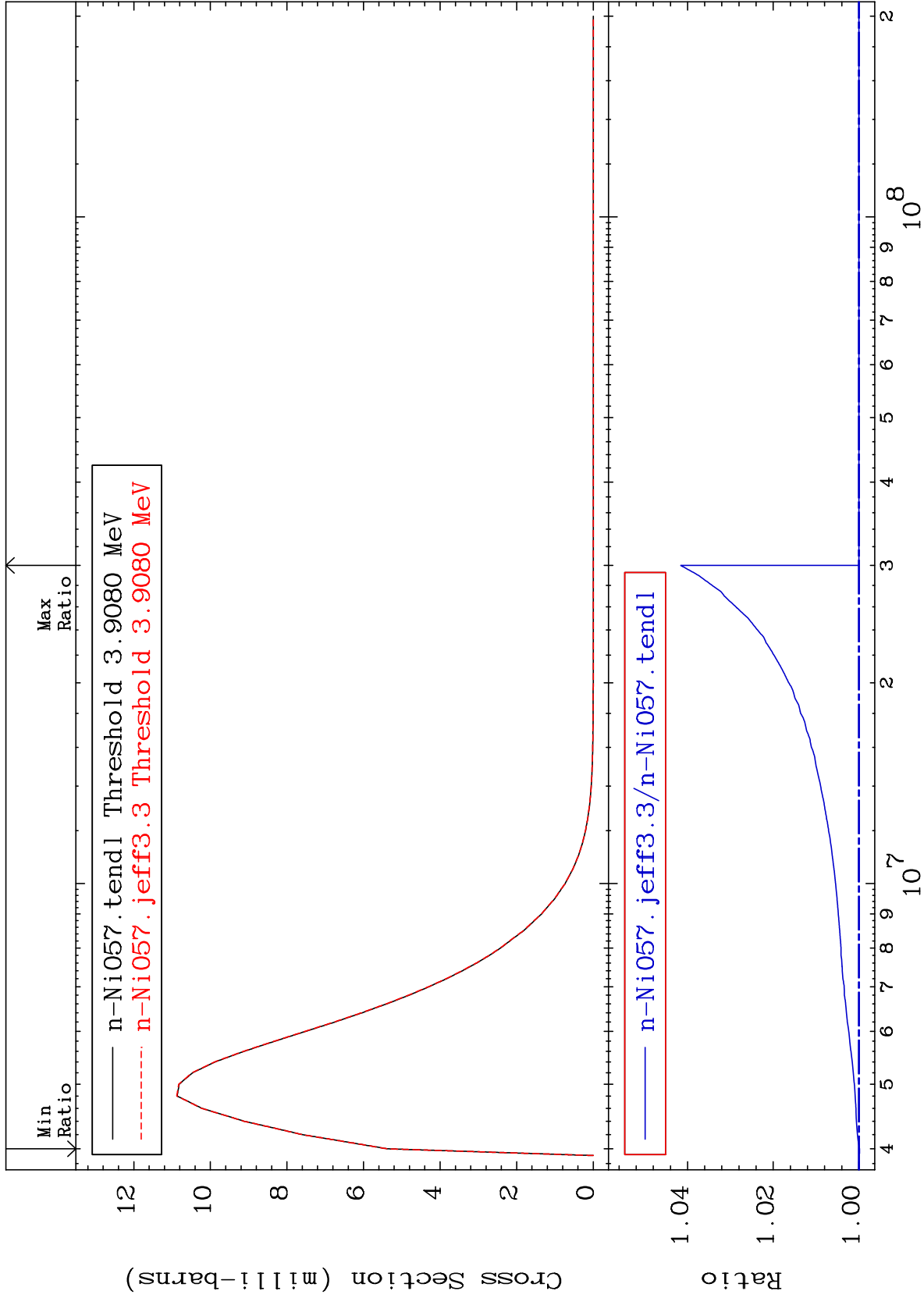
28-Ni-57
0.000 To 4.150 %



27

28-Ni-57

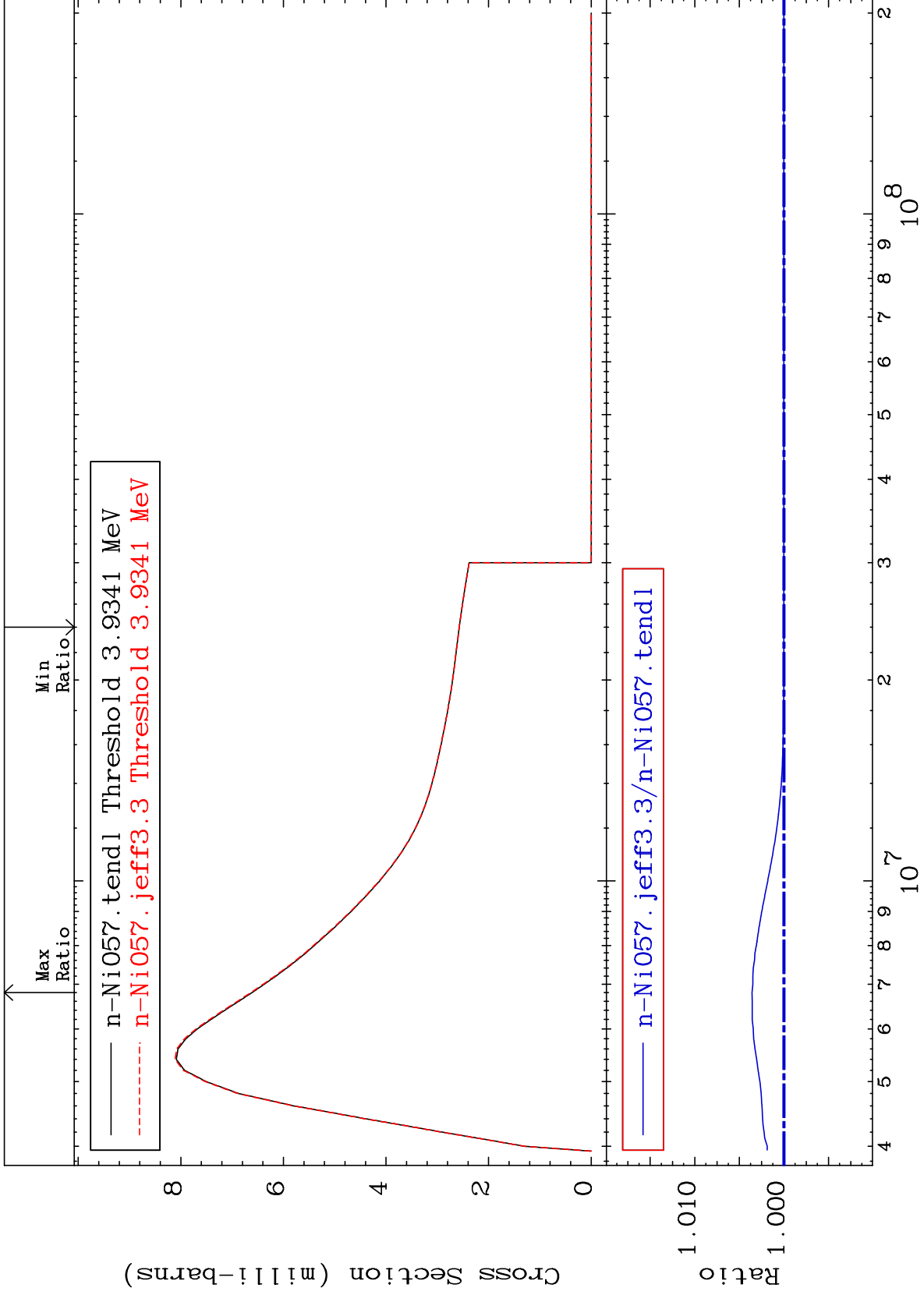
28-Ni-57



MAT 2822

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

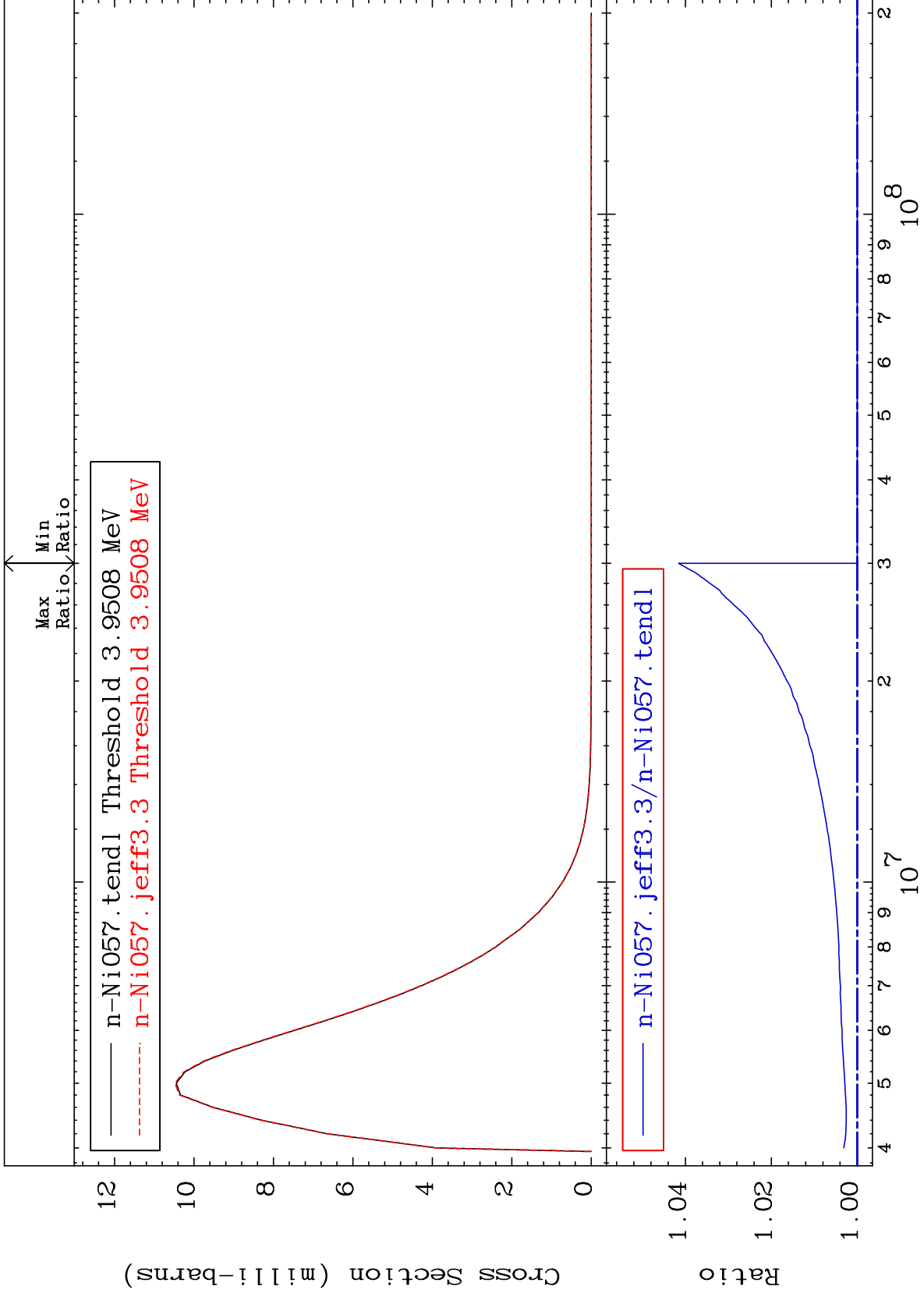
28-Ni-57
0.000 To 0.358 %



MAT 2822

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

28-Ni-57
0.000 To 4.156 %



30

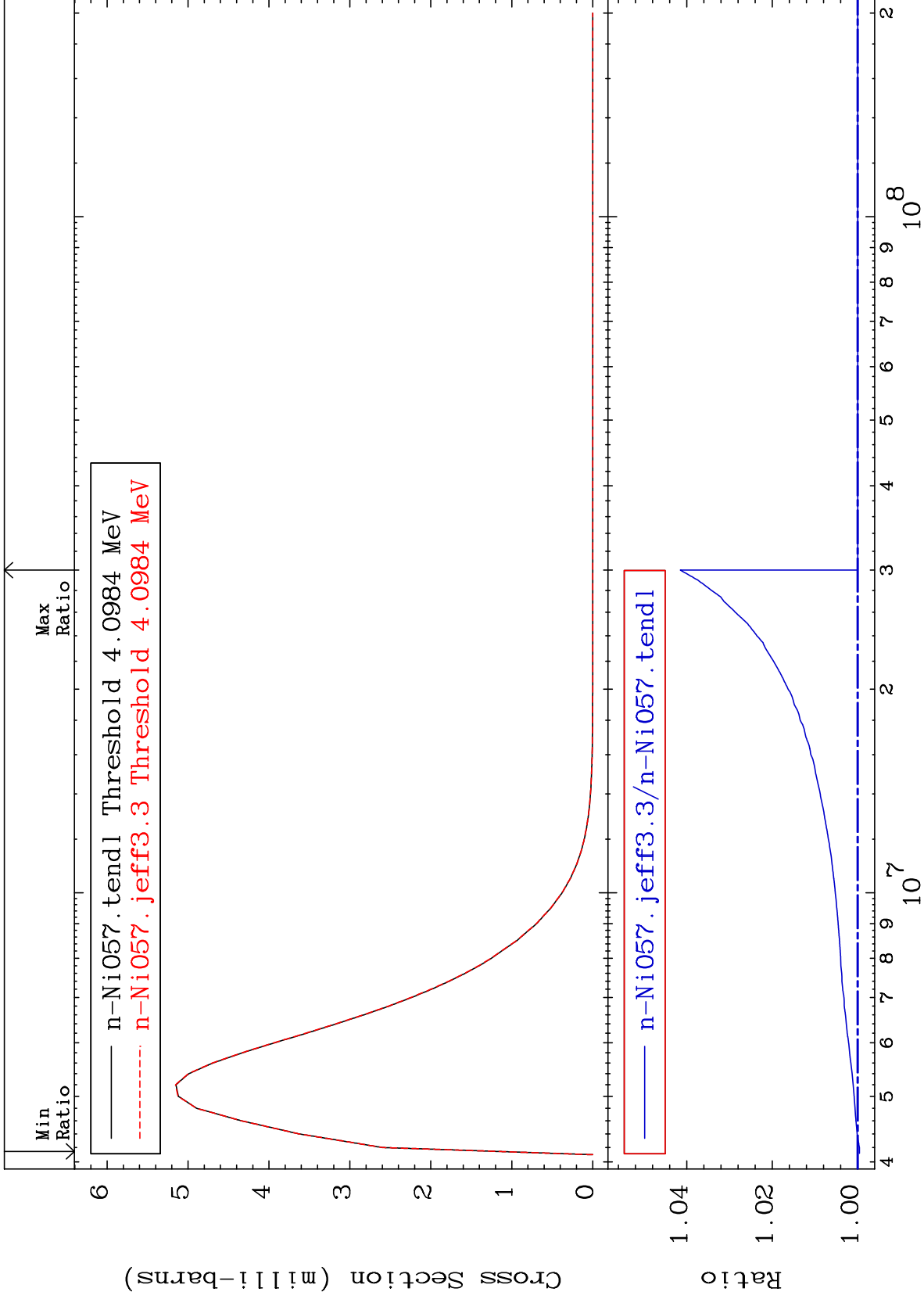
28-Ni-57

28-Ni-57

MAT 2822

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

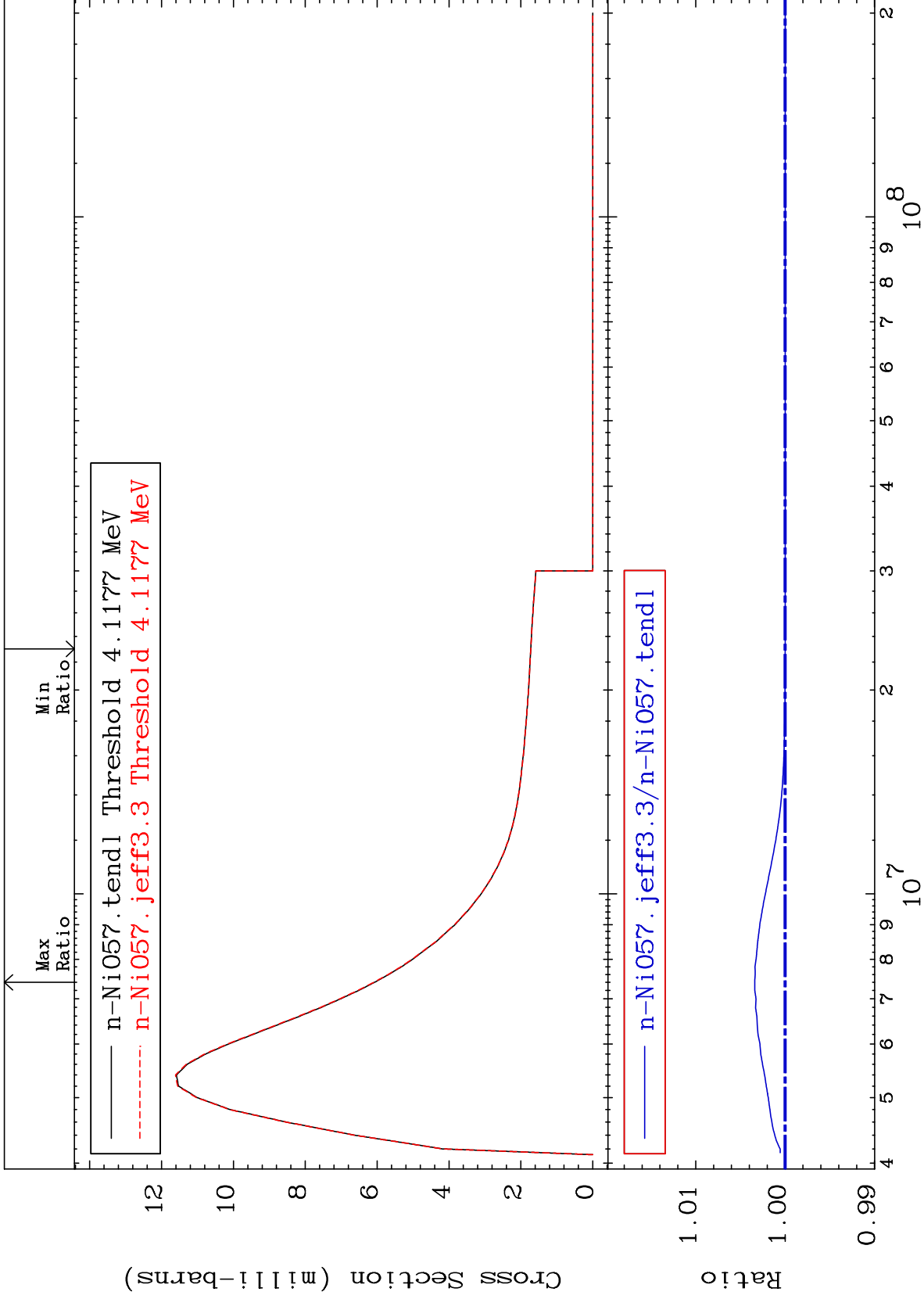
28-Ni-57
-0.042 To 4.149 %



MAT 2822

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

28-Ni-57
0.000 To 0.341 %



32

Incident Energy (eV)

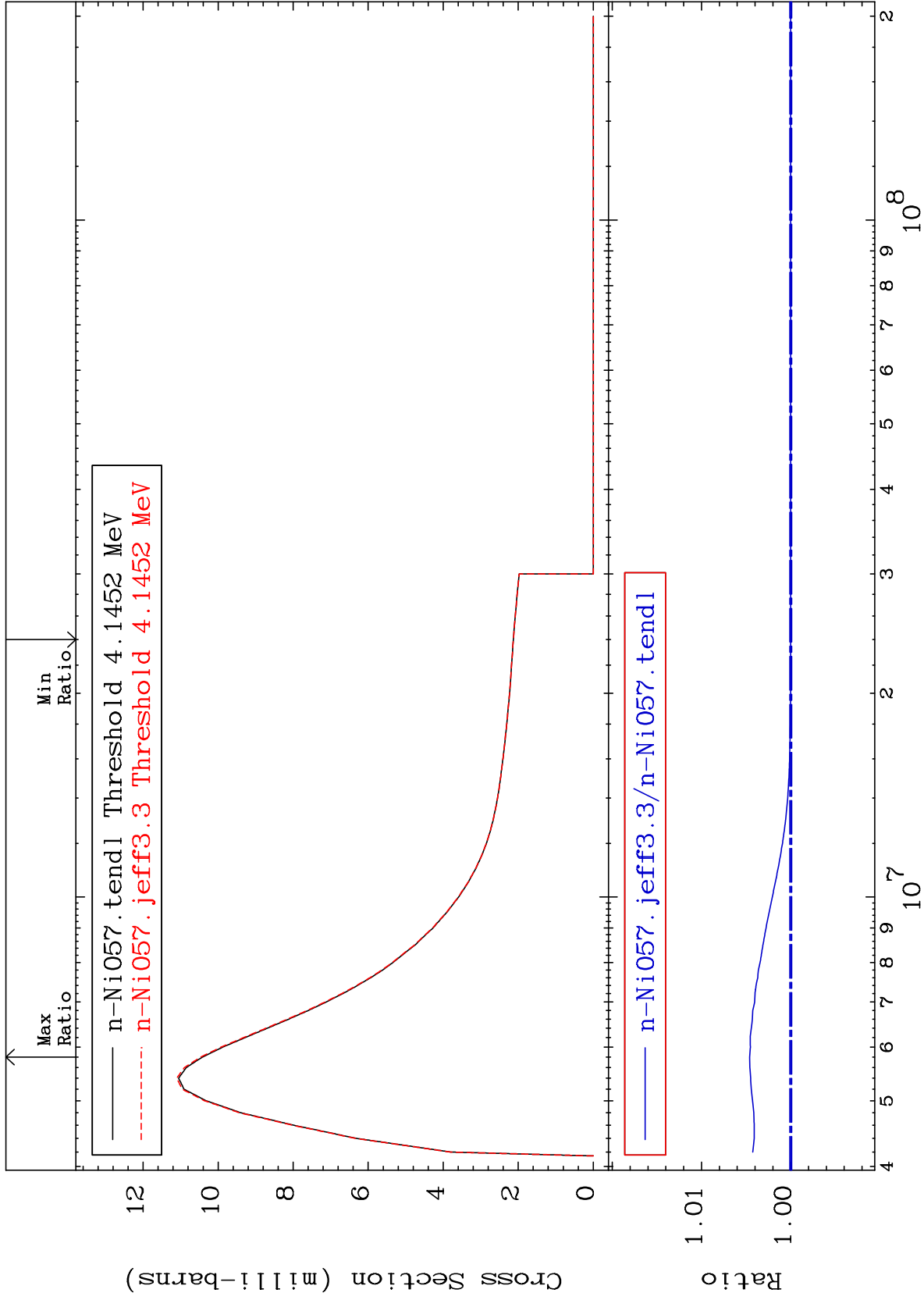
28-Ni-57

MAT 2822

MT= 68 (n,n') Level

28-Ni-57

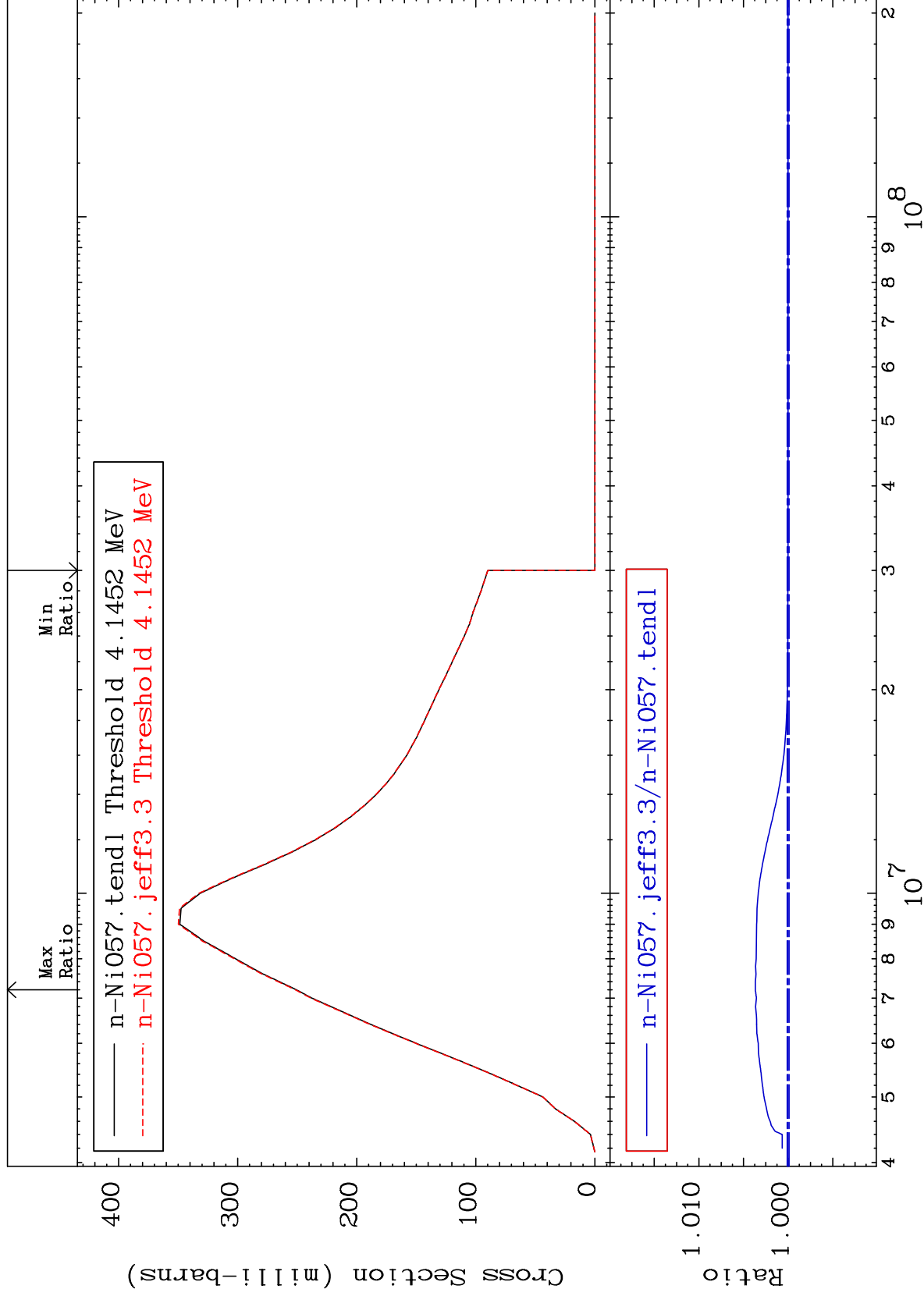
Cross Section
0.000 To 0.461 %

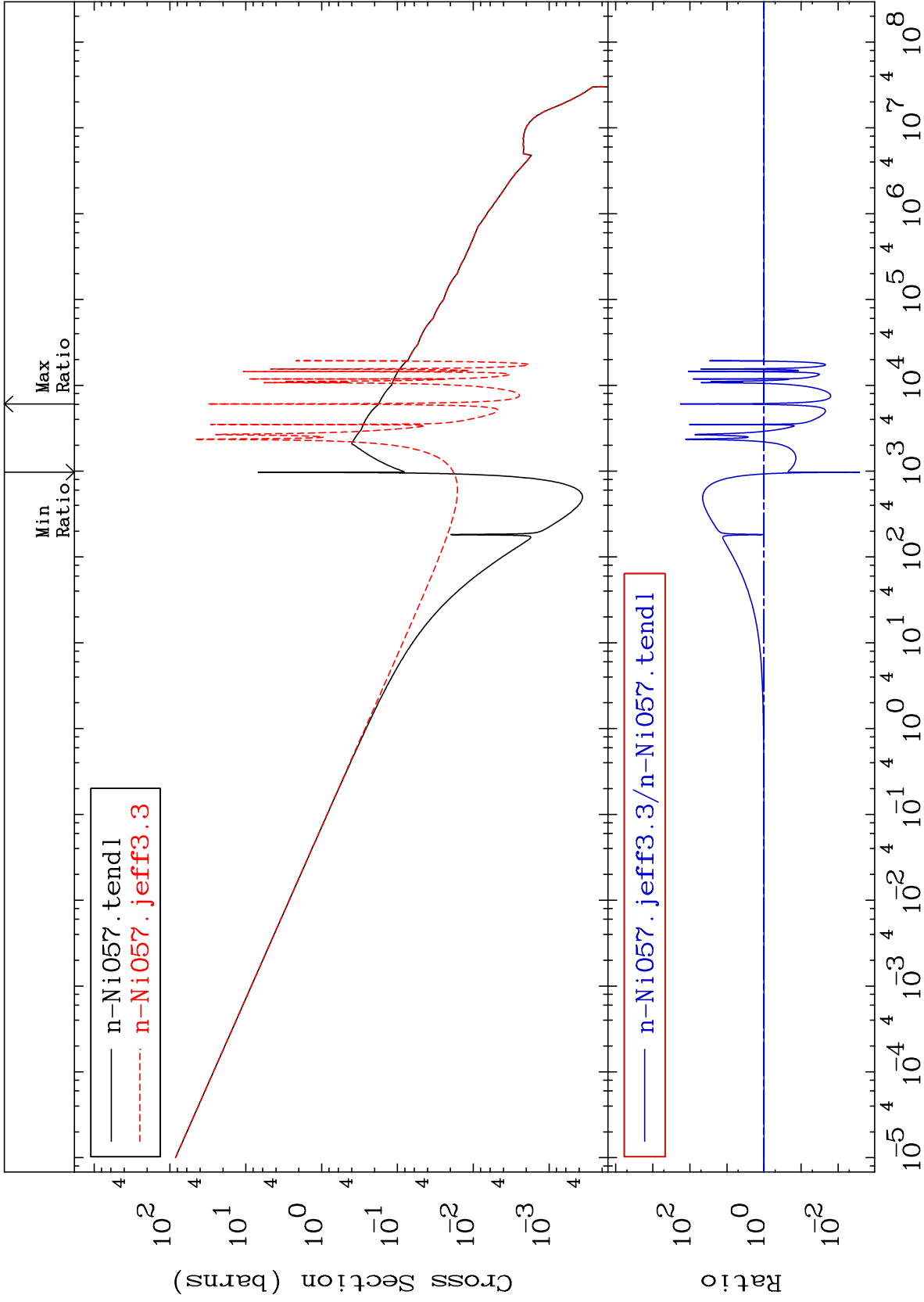


MAT 2822

(n, n') Continuum
Cross Section

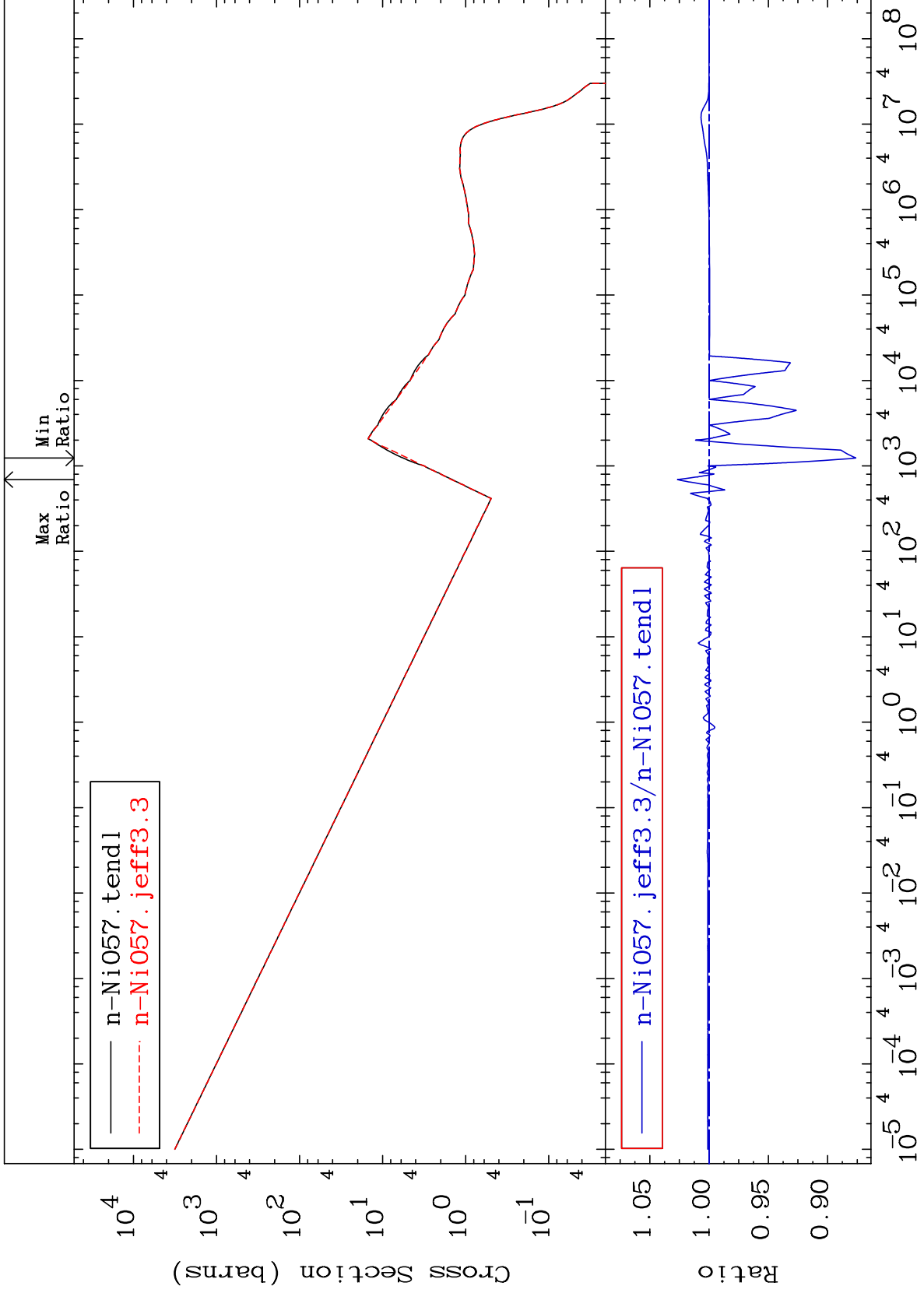
28-Ni-57
To 0.368 %





Cross Section

-12.38 To 2.663 %



MAT 2822

(n, d)

²⁸Ni-57

Cross Section

To 1.015 %

Max Ratio

Min Ratio

— n-Ni057.tendl Threshold 5.1983 MeV
- - - n-Ni057.jeff3.3 Threshold 5.1983 MeV

— n-Ni057.jeff3.3/n-Ni057.tendl

Cross Section (milli-barns)

Ratio

5 6 7 8 9 10⁷ 2 3 4 5 6 7 8 9 10⁸

37

Incident Energy (eV)

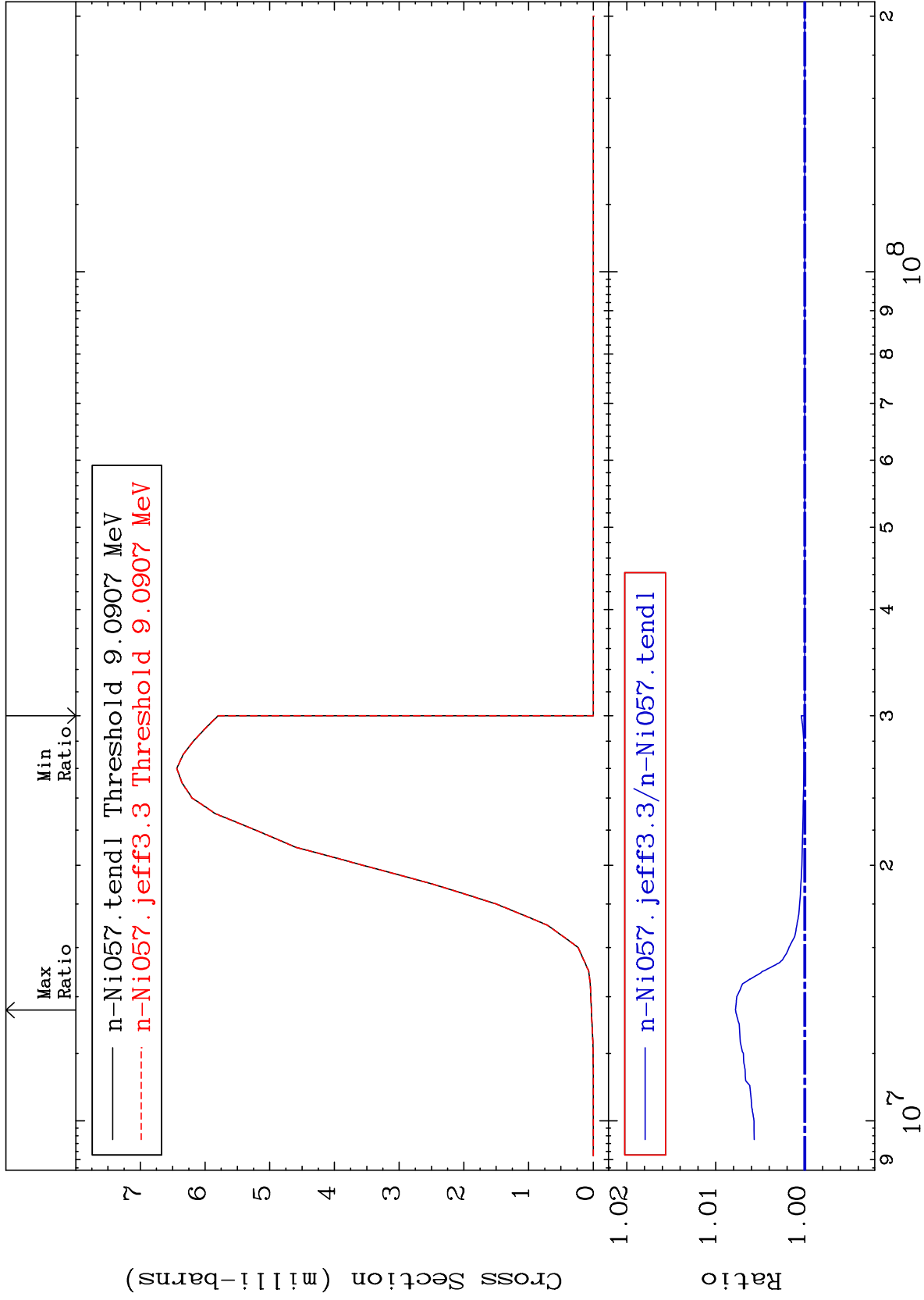
²⁸Ni-57

MAT 2822

28-Ni-57

0.000 To 0.779 %

(n, t)
Cross Section



38

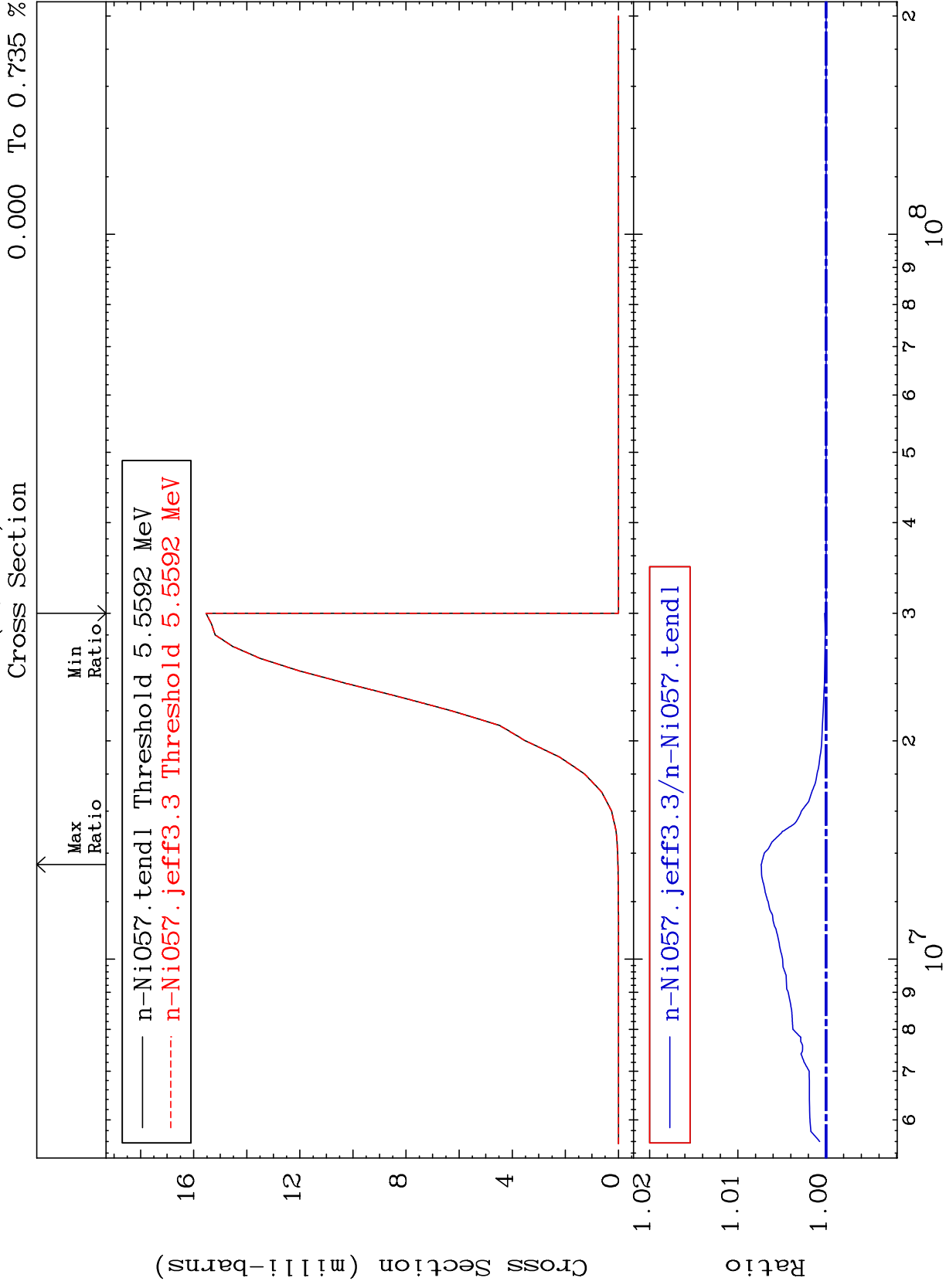
Incident Energy (eV)

28-Ni-57

MAT 2822

(n, He-3)

28-Ni-57
0.000 To 0.735 %



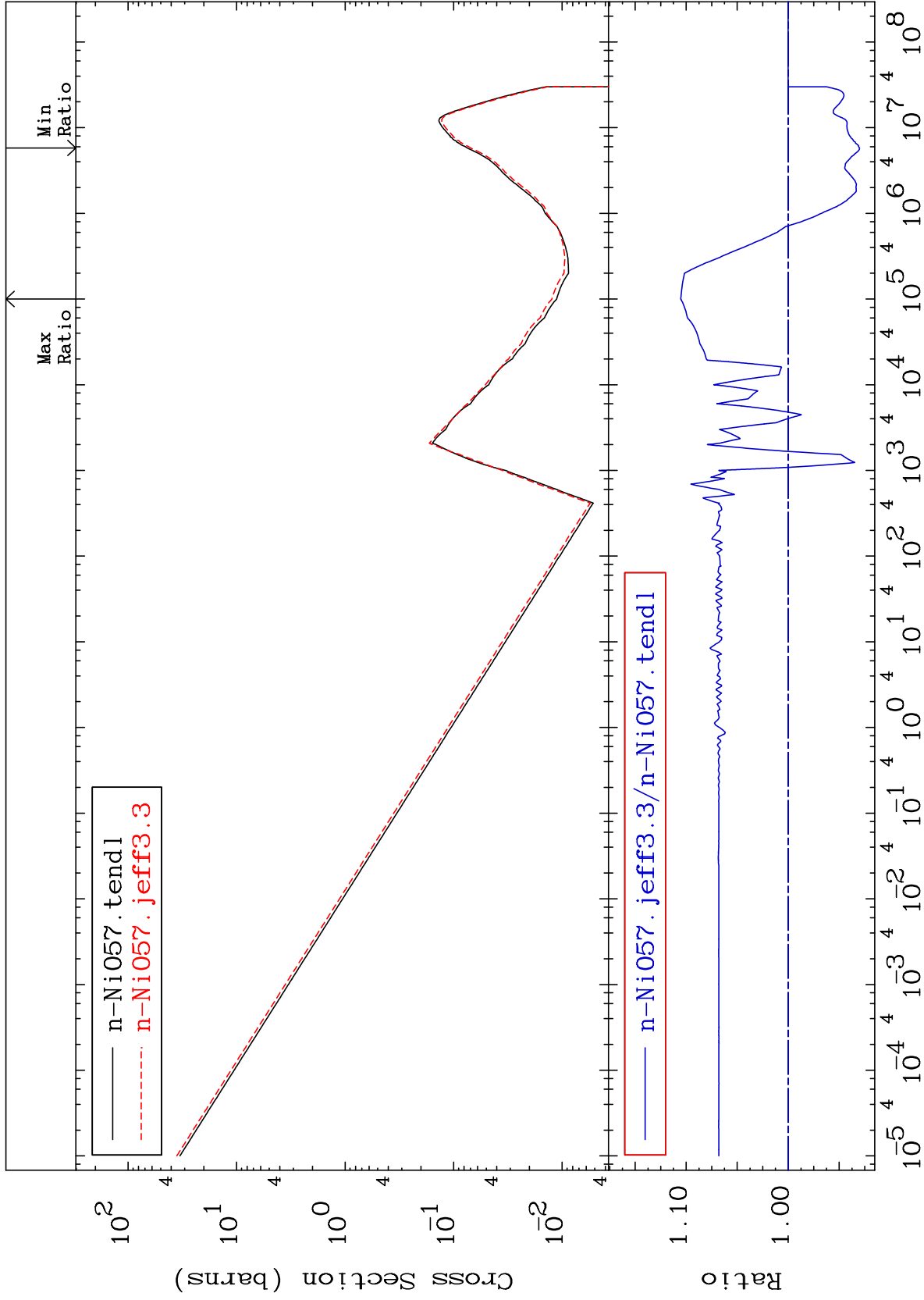
MAT 2822

(n, α)

28-Ni-57

Cross Section

-6.990 To 10.53 %

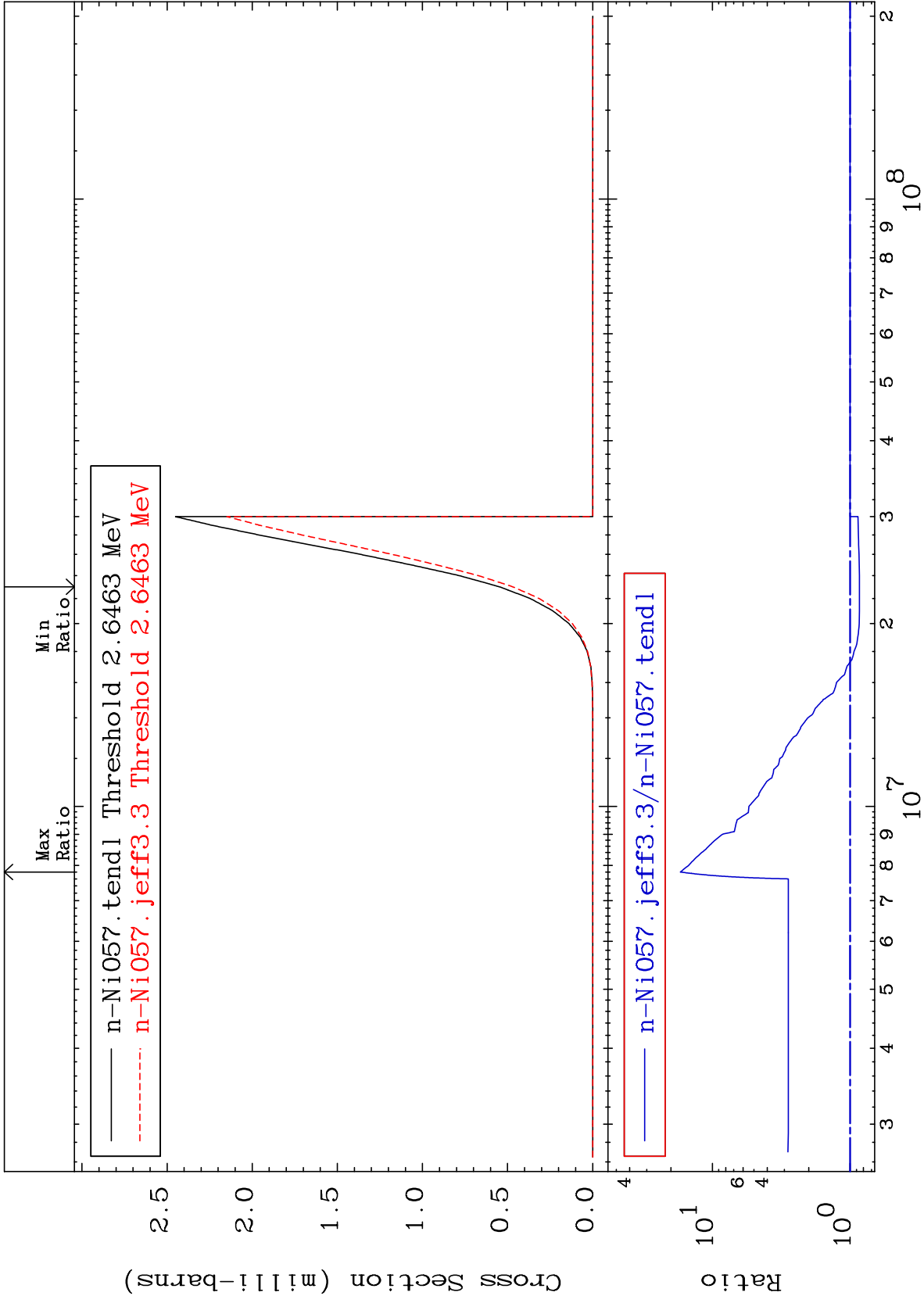


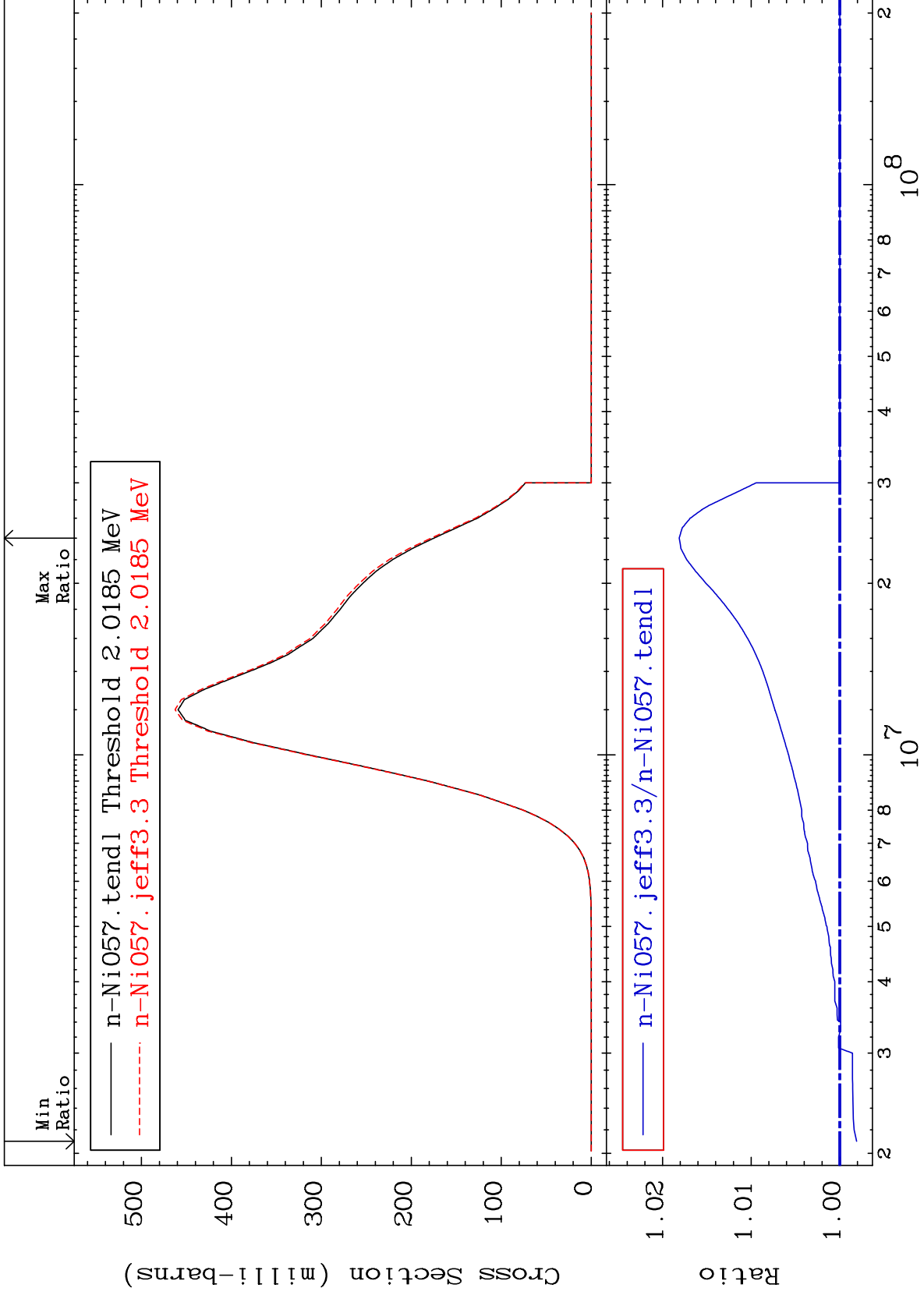
Incident Energy (eV)

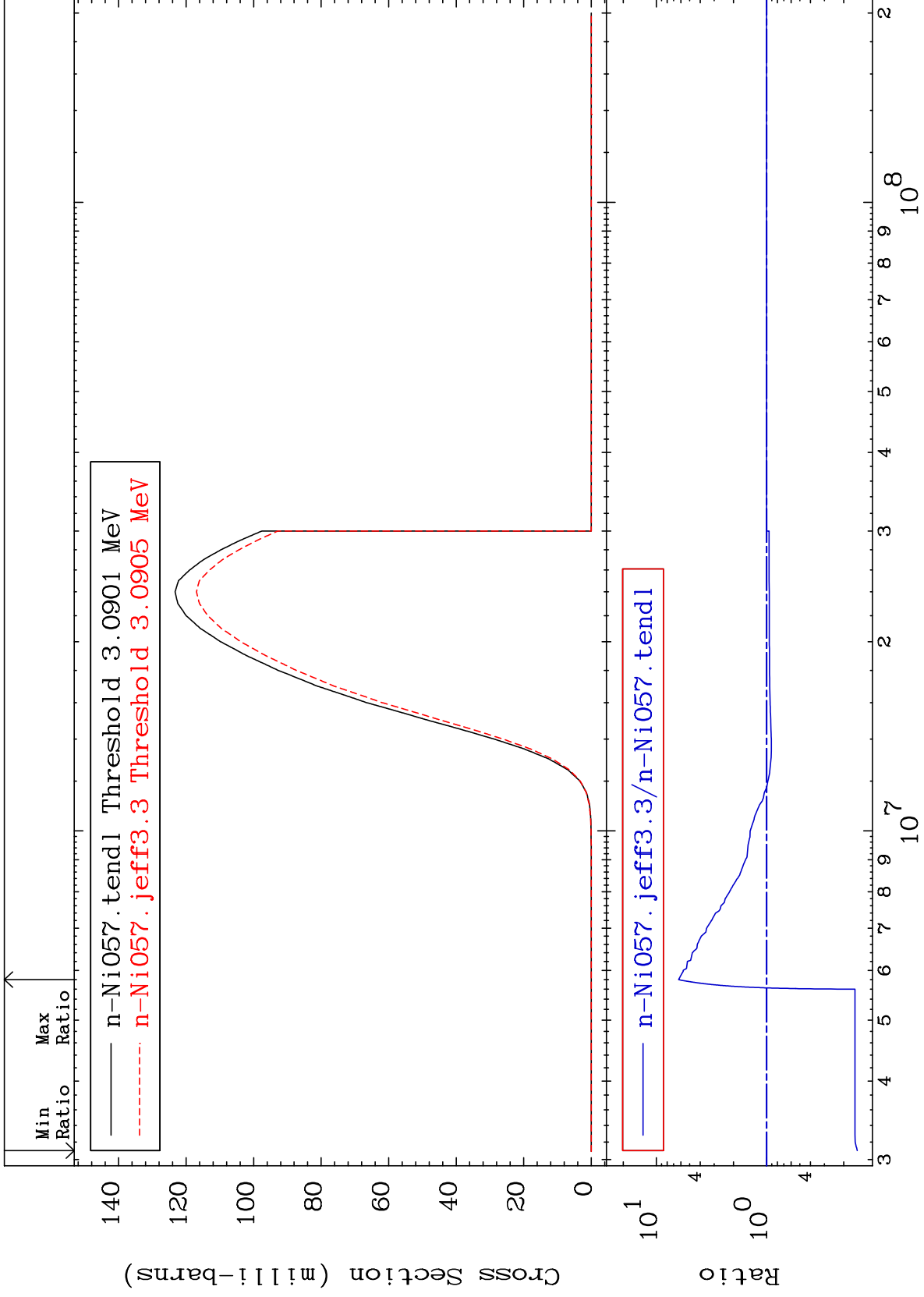
28-Ni-57

Cross Section

-14.39 To 1611. %







MAT 2822

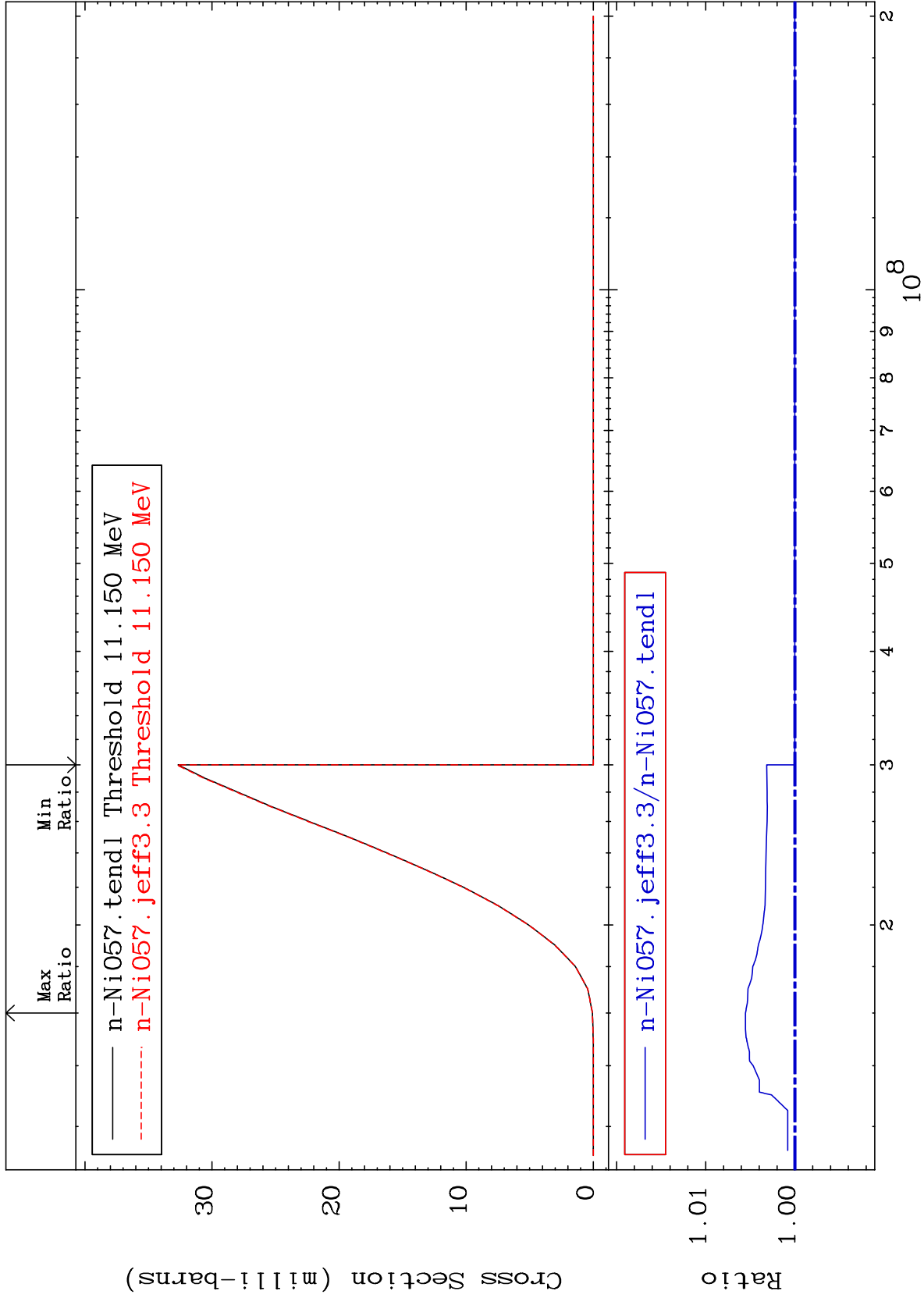
(n,p) d

28-Ni-57

Cross Section

0.000

To 0.554 %



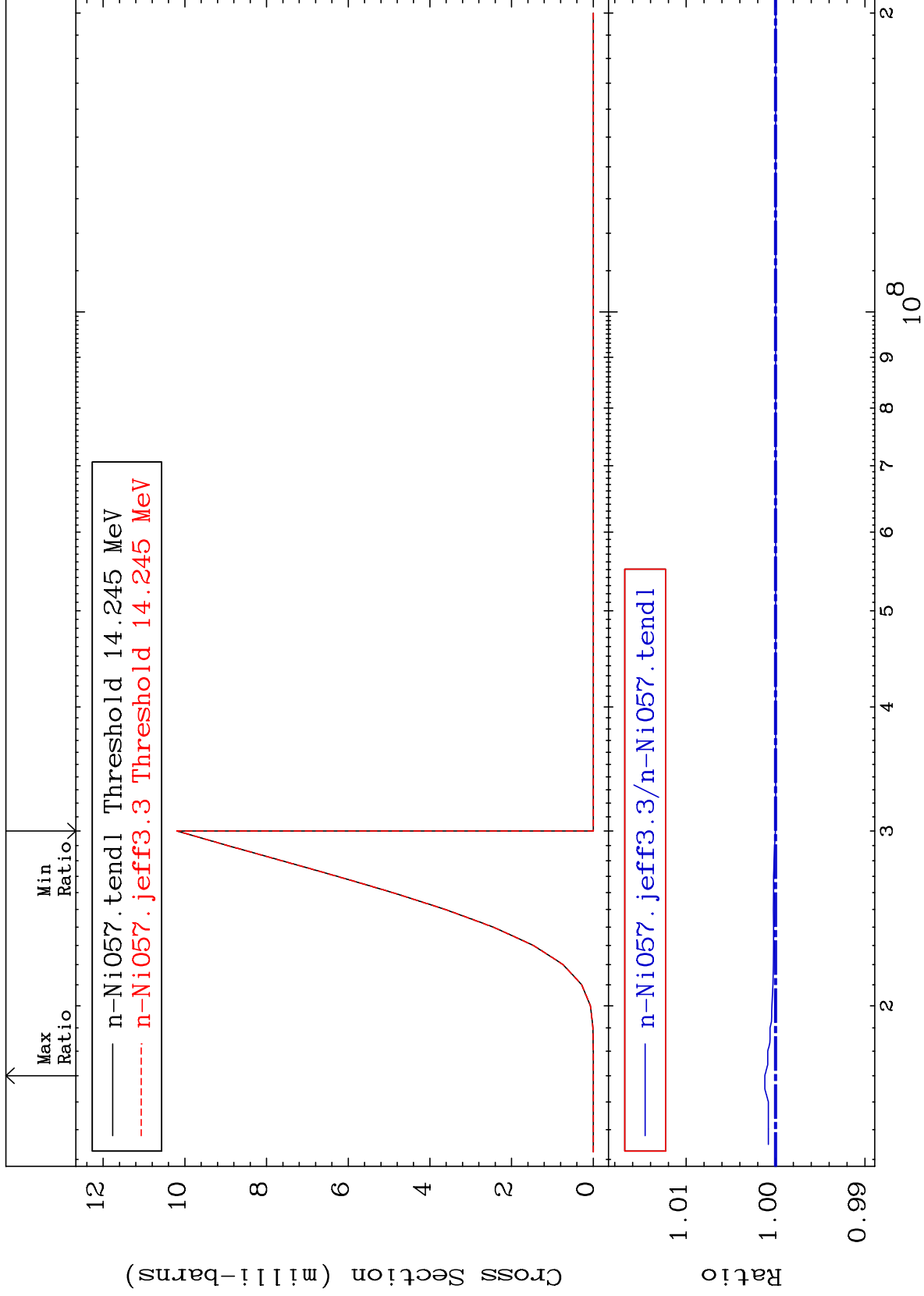
MAT 2822

(n,p) t

28-Ni-57

Cross Section

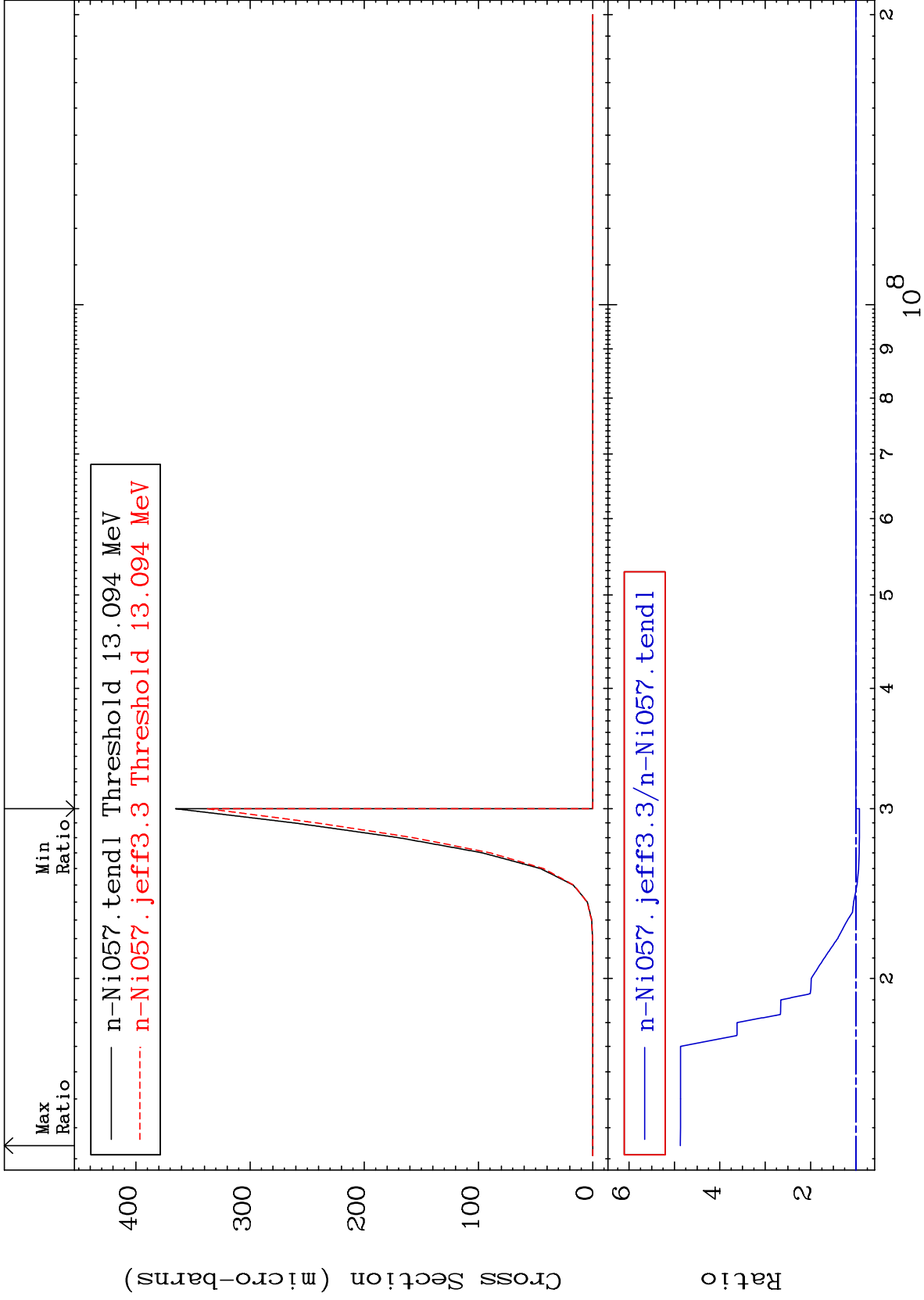
0.000 To 0.121 %

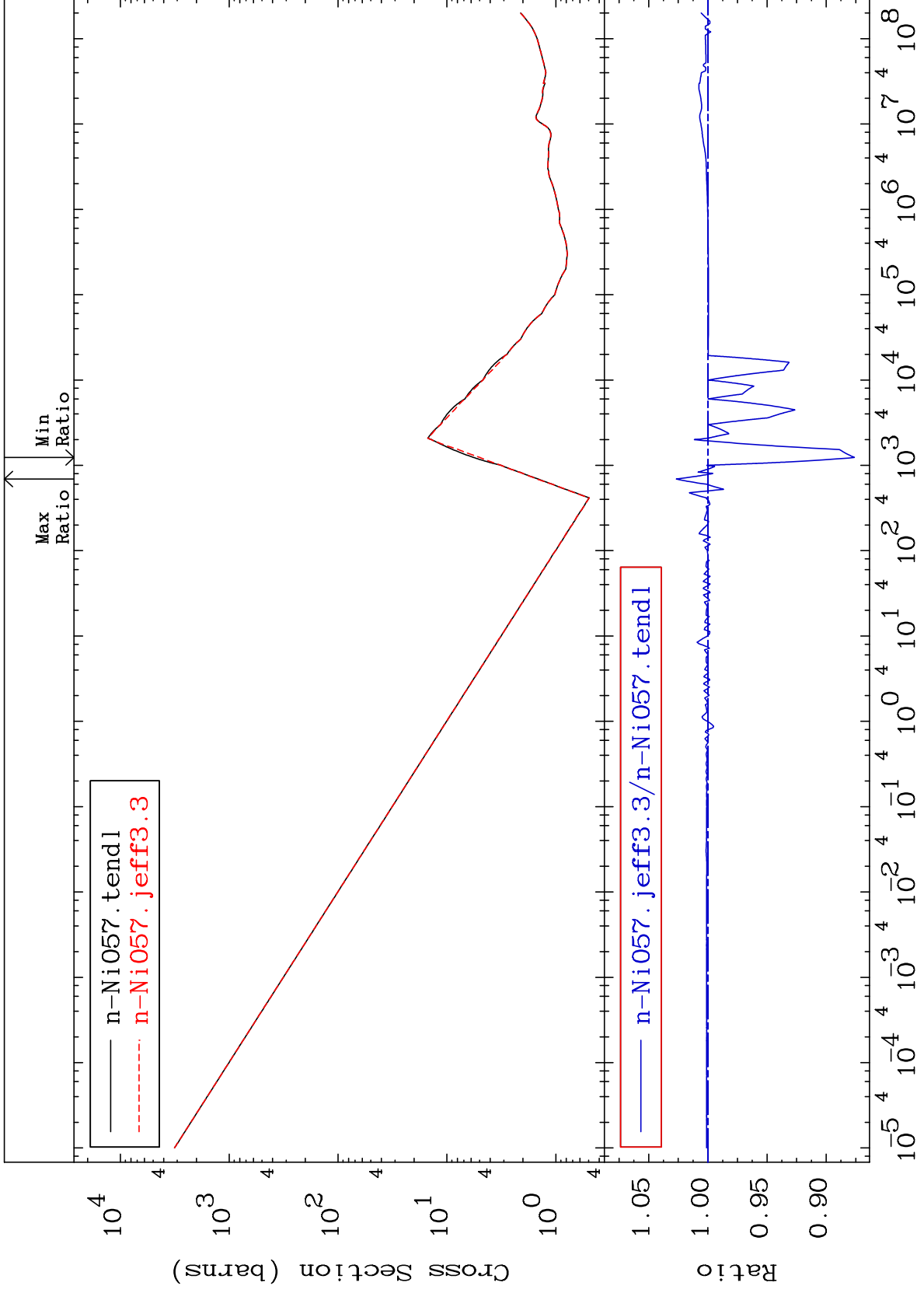


MAT 2822

(n, d) α
Cross Section

28-Ni-57
-7.640 To 386.9 %

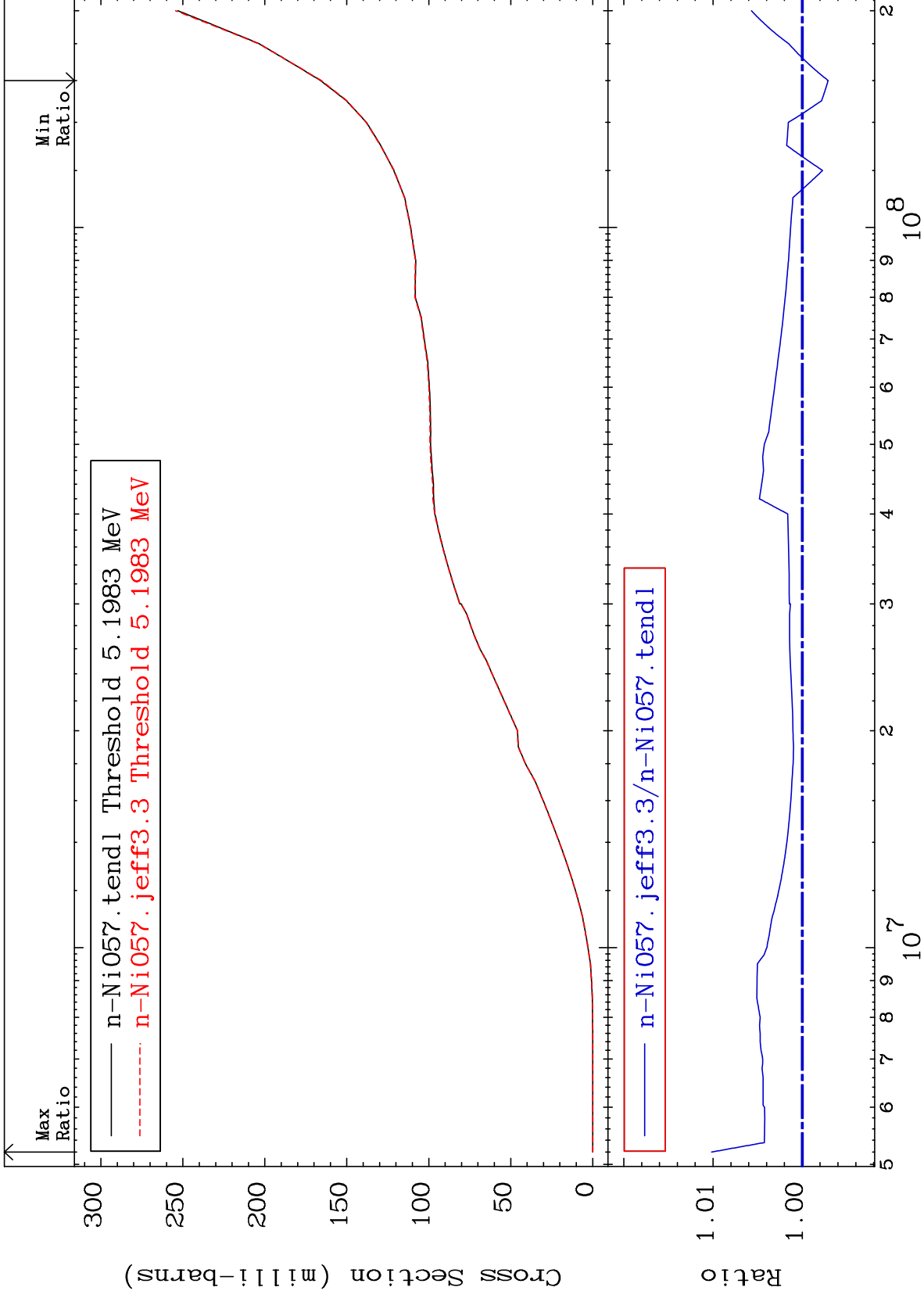




MAT 2822

Deuterium Production
Cross Section

28-Ni-57
-0.290 To 1.015 %



48

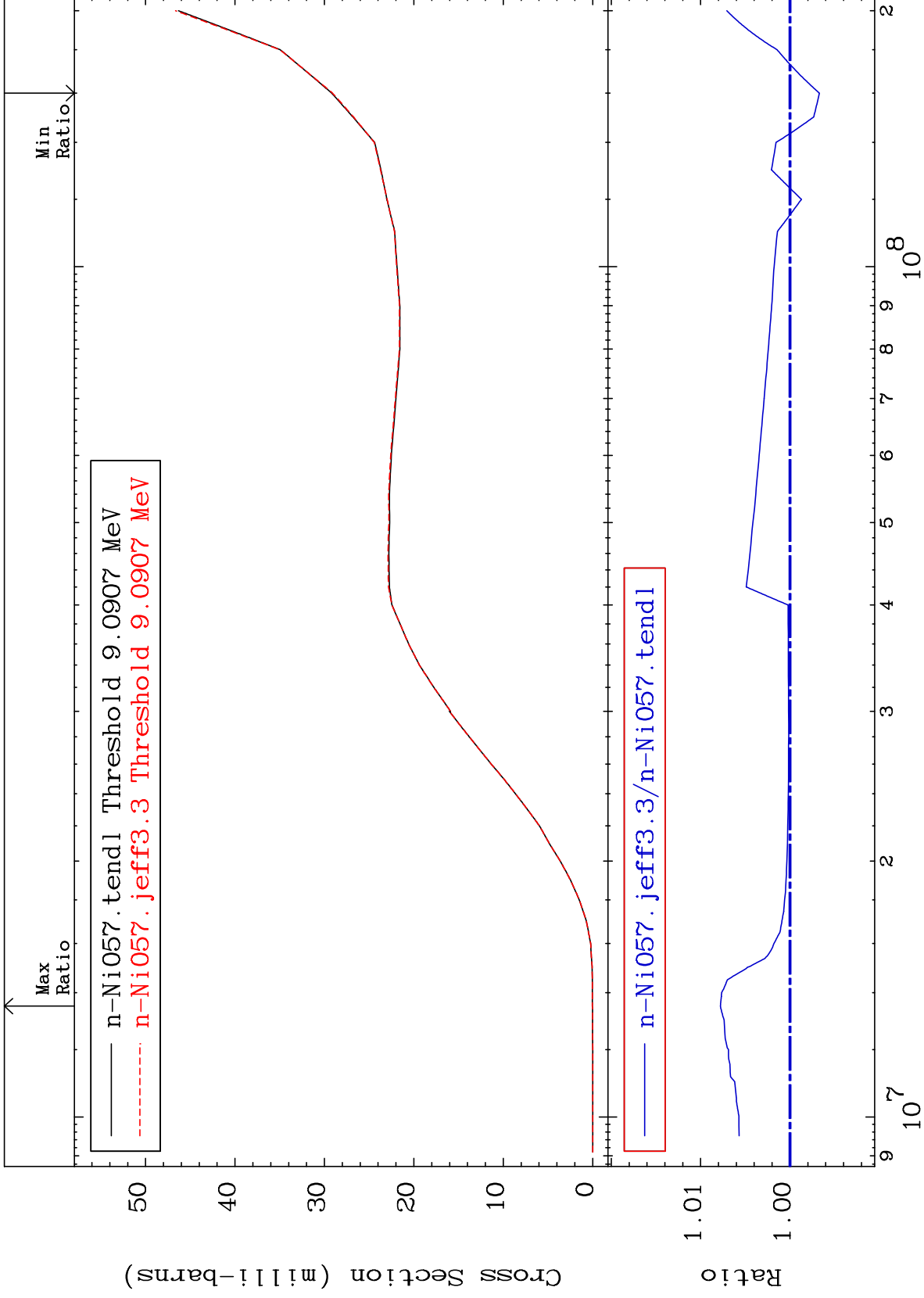
Incident Energy (eV)

28-Ni-57

MAT 2822

Tritium Production
Cross Section

28-Ni-57
-0.330 To 0.779 %



49

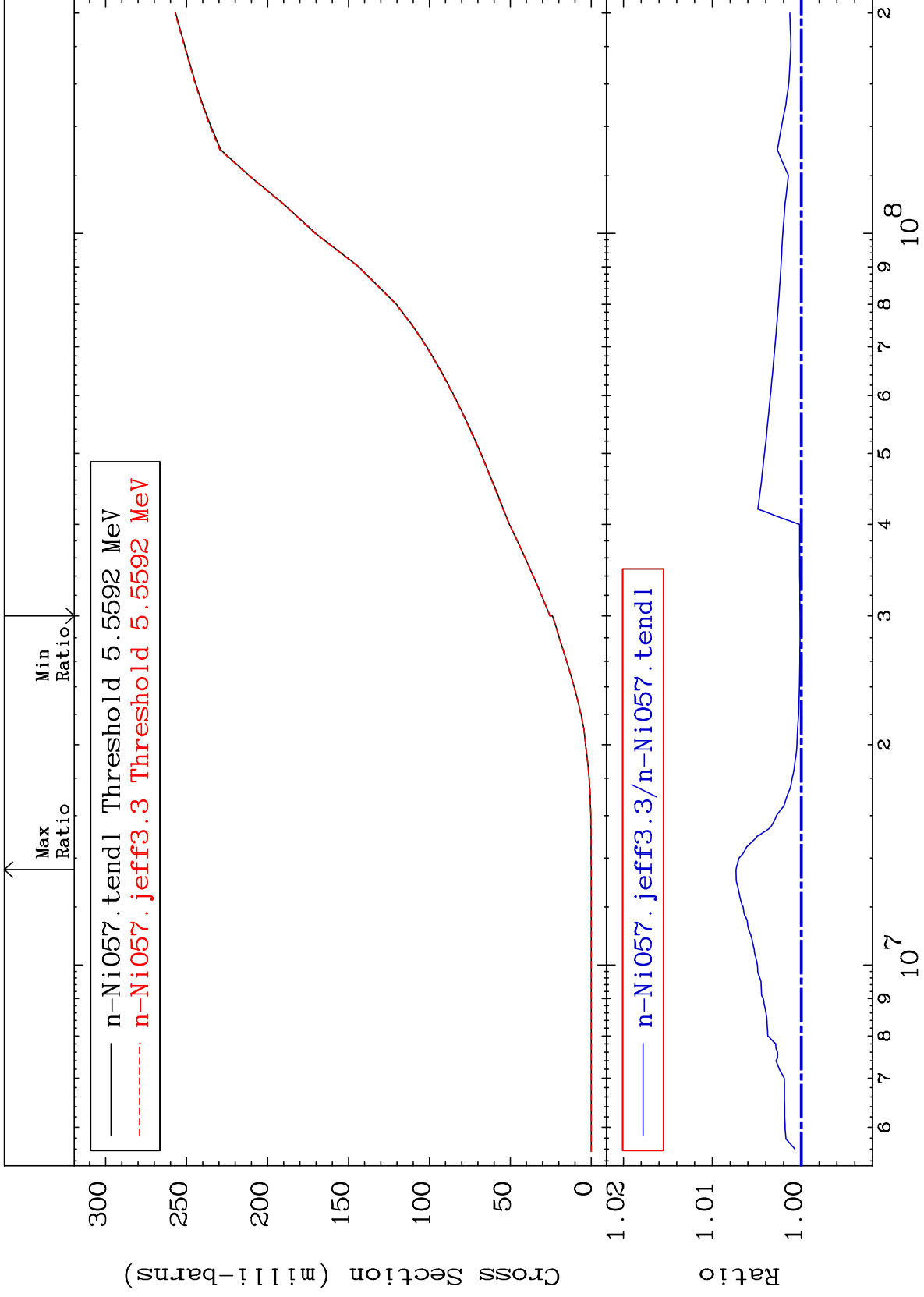
Incident Energy (eV)

28-Ni-57

MAT 2822

He-3 Production
Cross Section

28-Ni-57
To 0.735 %



50

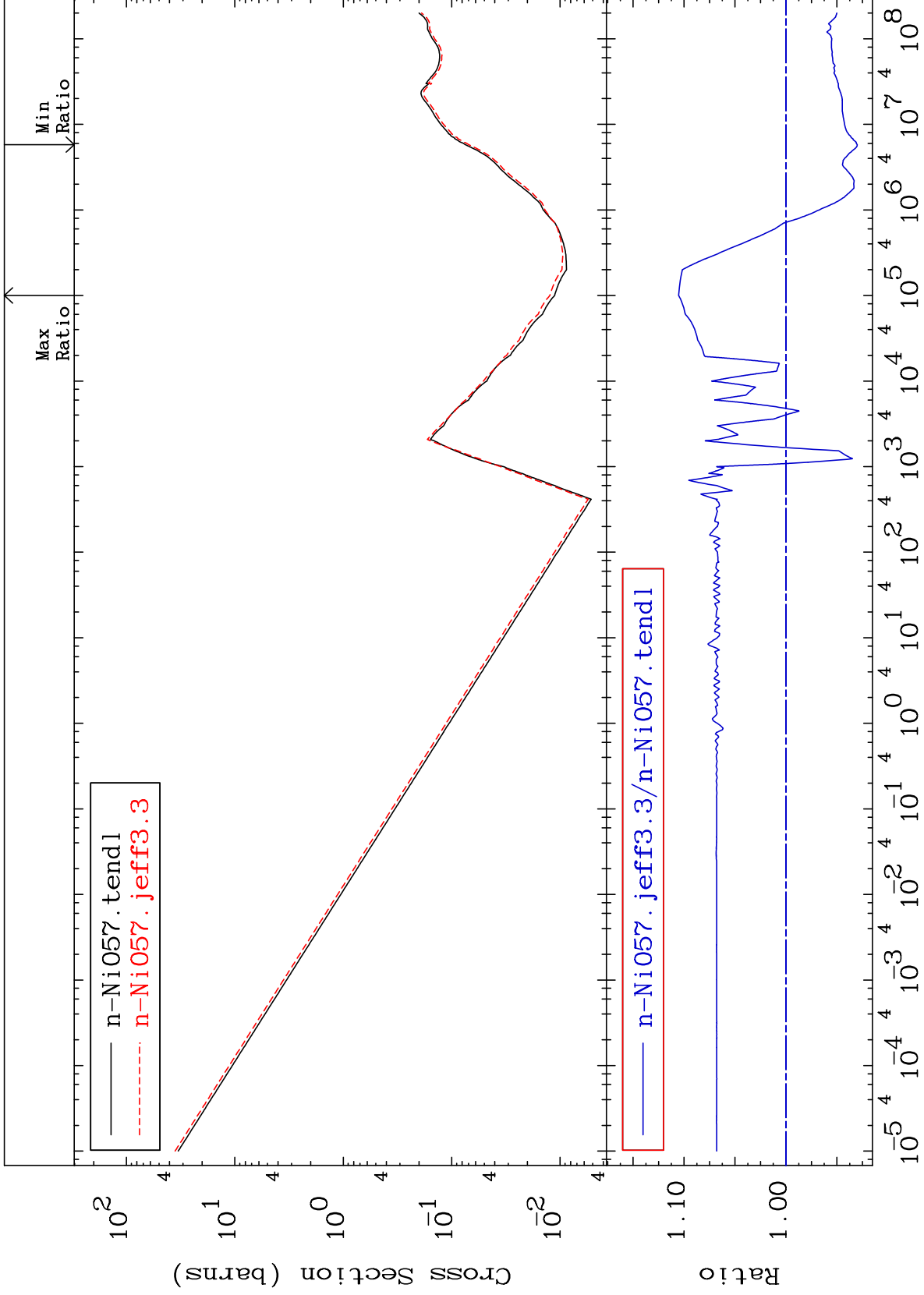
Incident Energy (eV)

28-Ni-57

MAT 2822

He-4 Production
Cross Section

28-Ni-57
-6.990 To 10.53 %



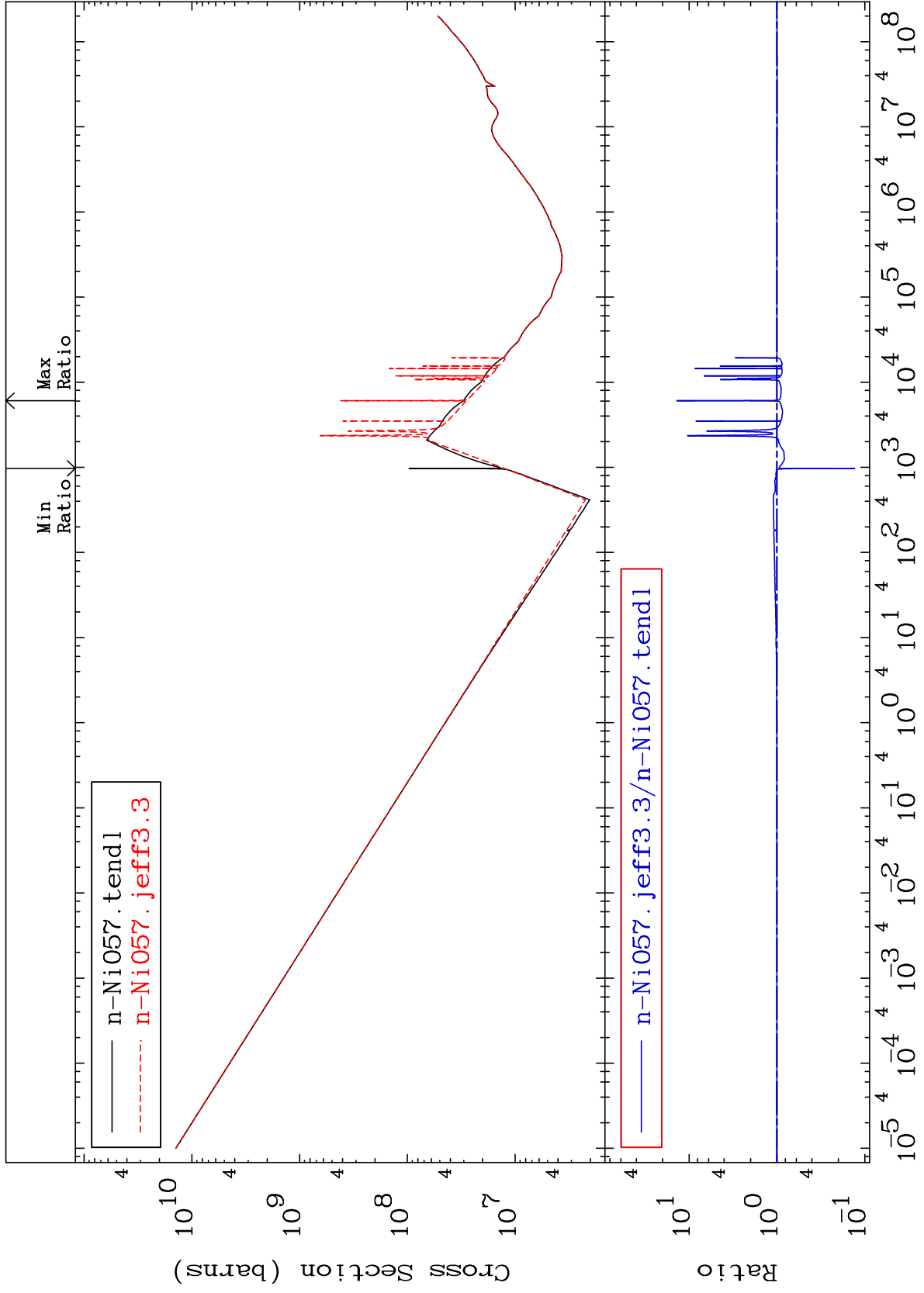
51

Incident Energy (eV)

28-Ni-57

Cross Section

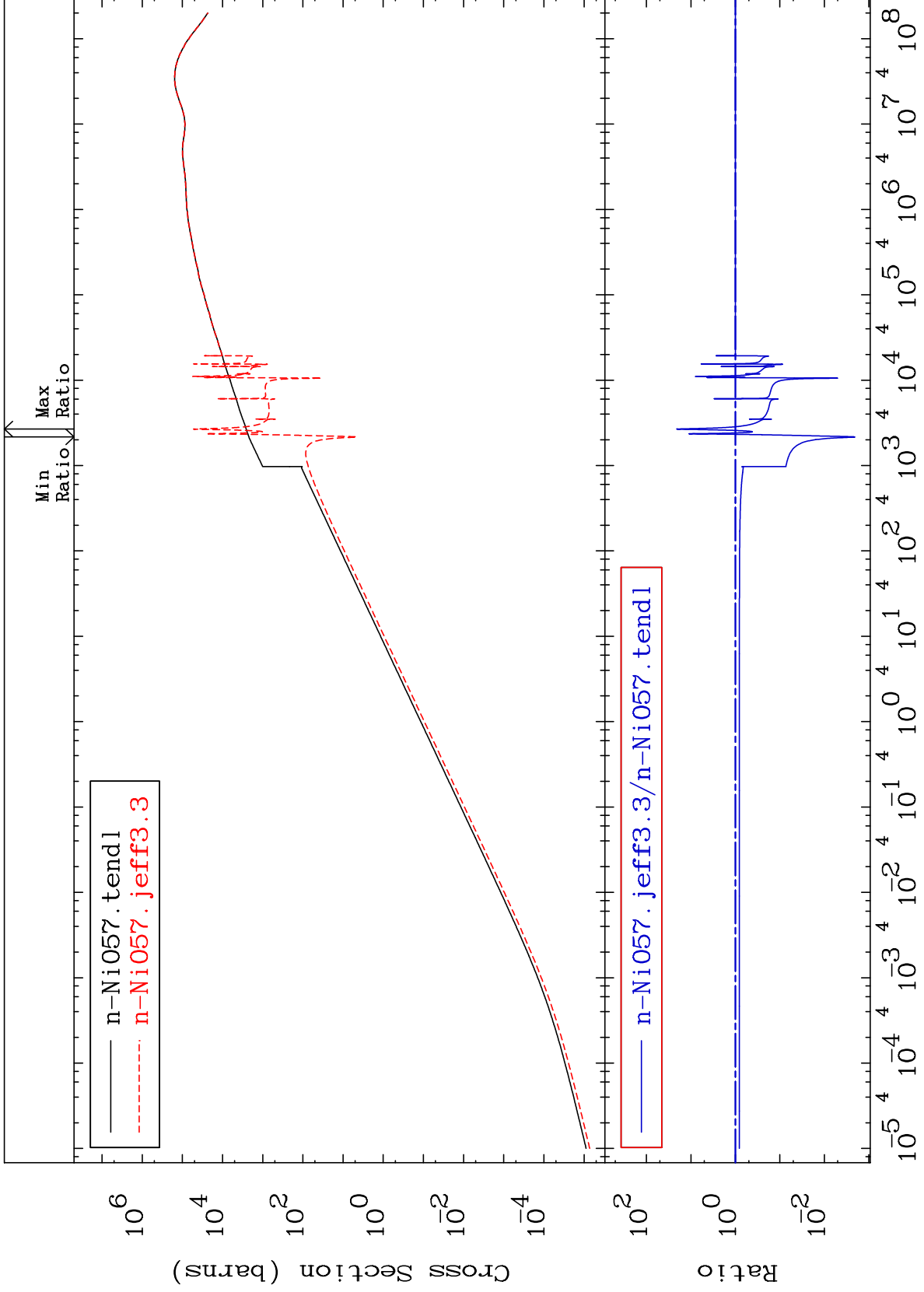
-86.92 To 1283. %

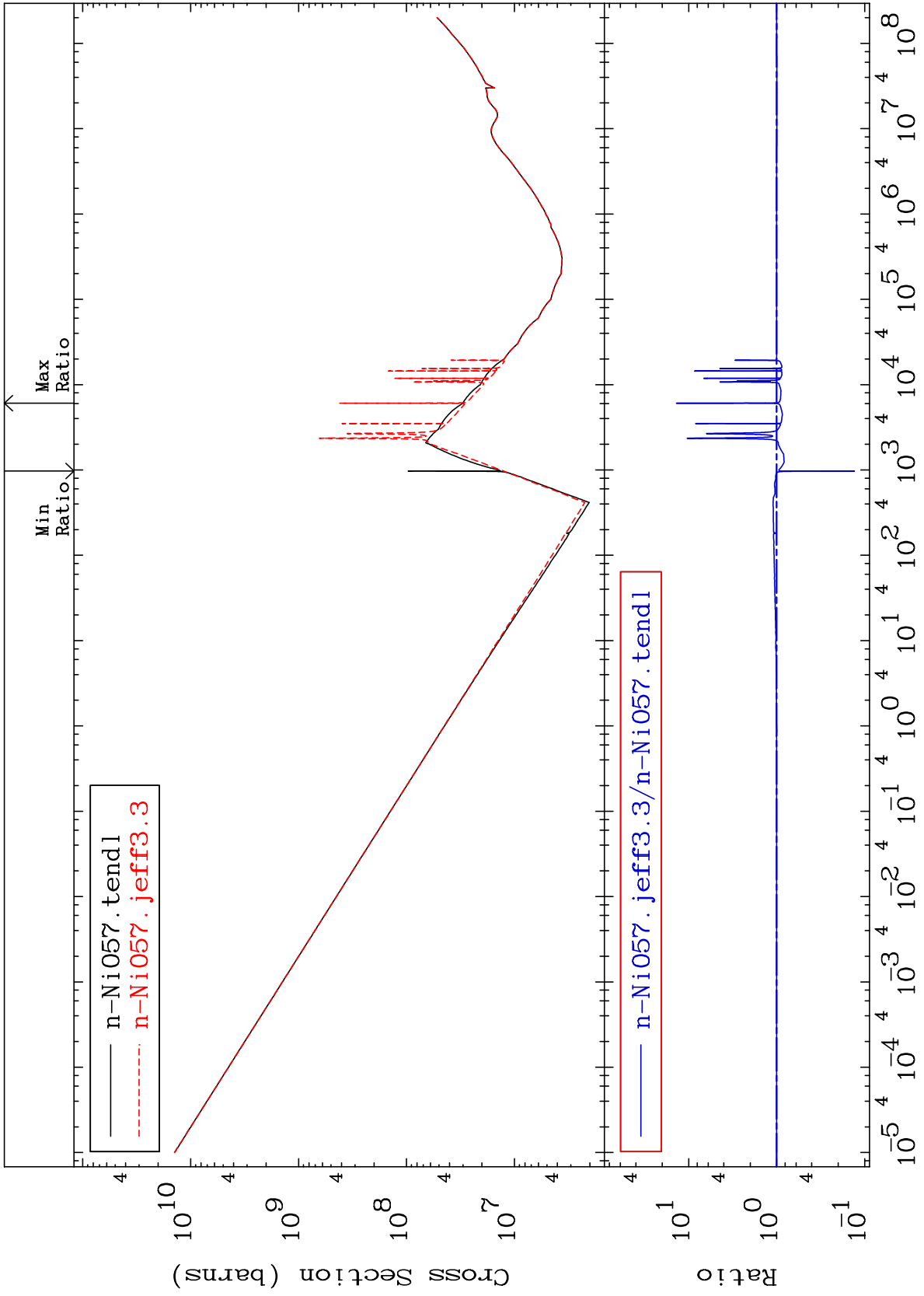


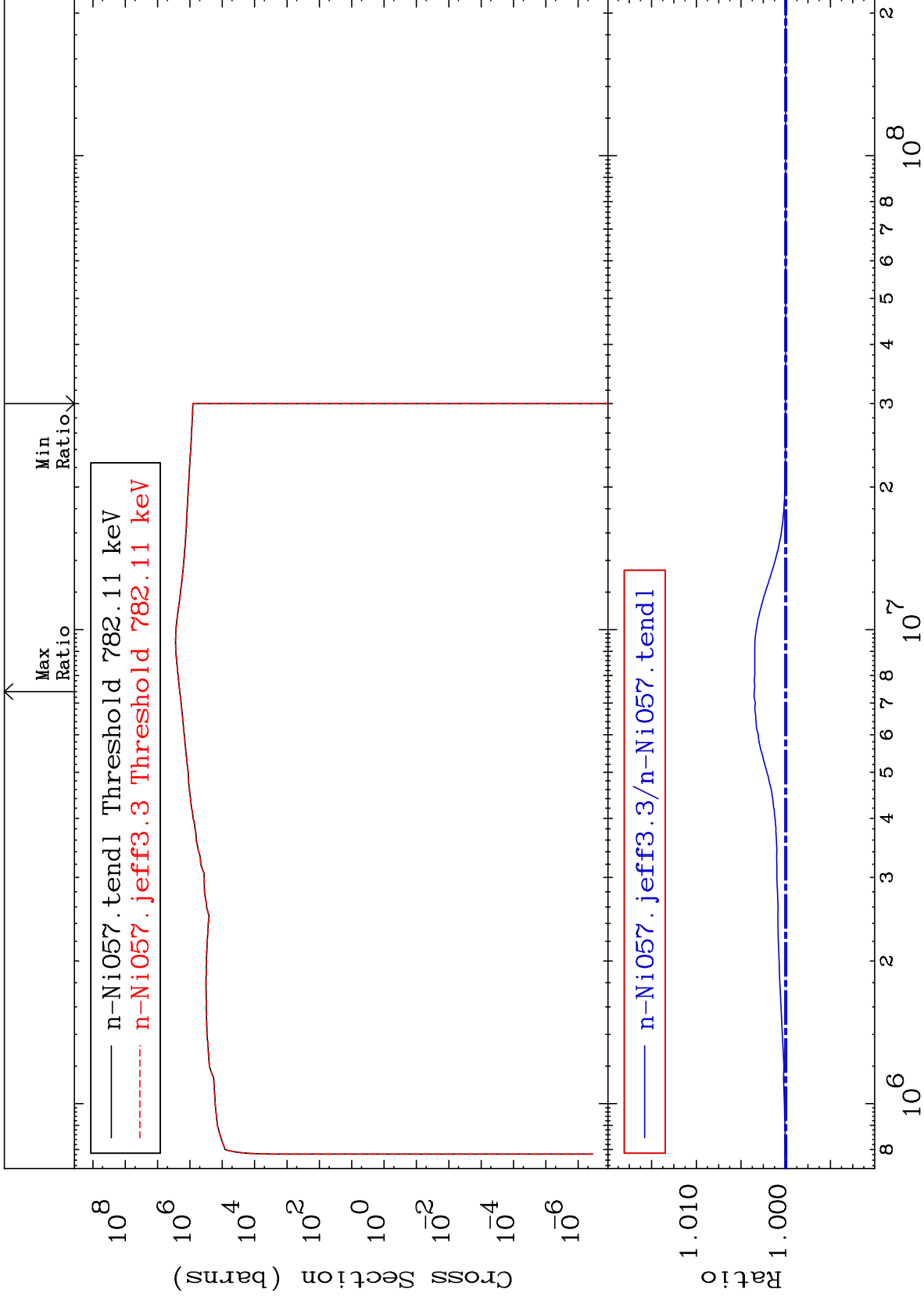
MAT 2822

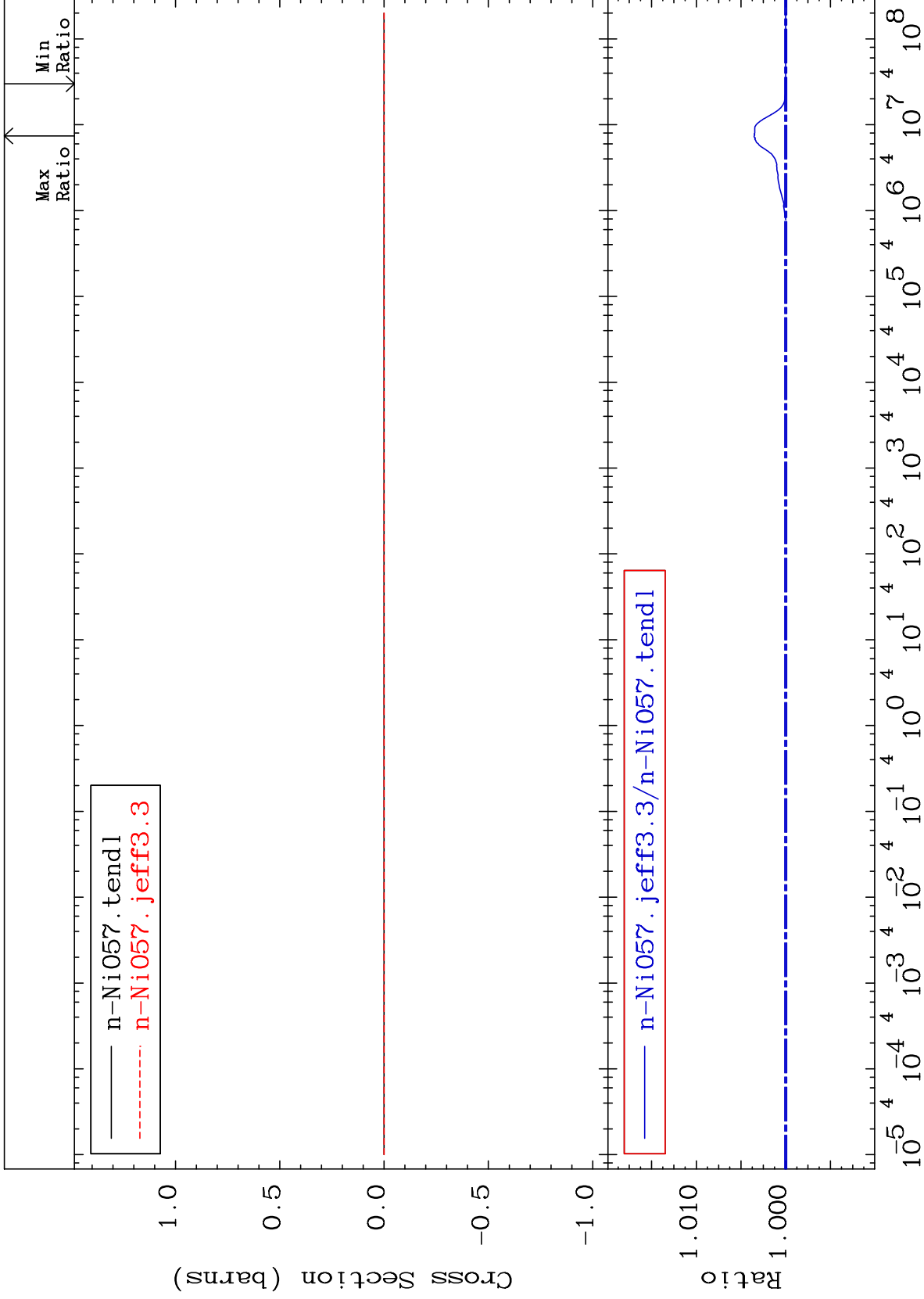
Kerma elastic
Cross Section

28-Ni-57
-99.80 To 1964. %





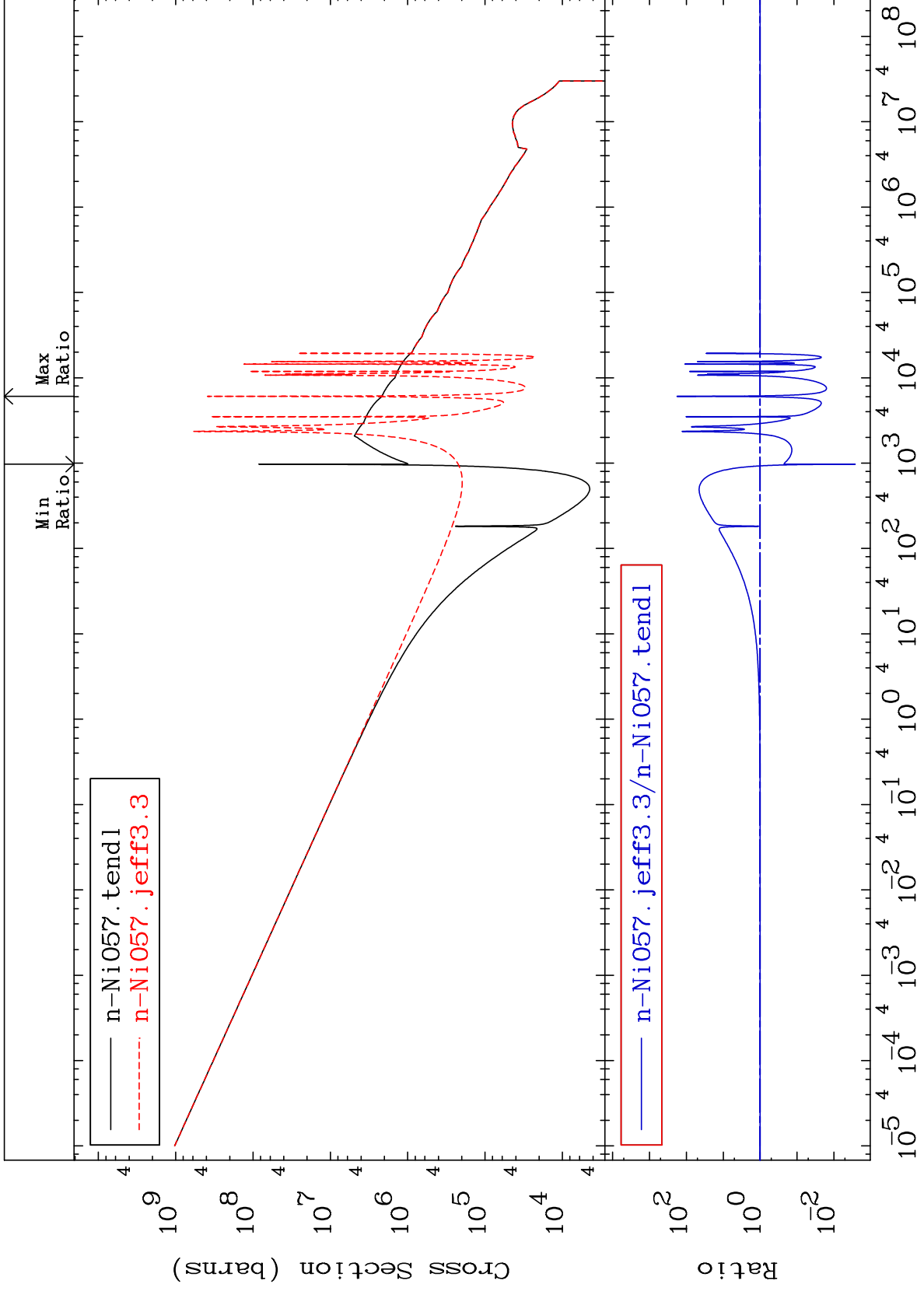




MAT 2822

Kerma capture (mt102)
Cross Section

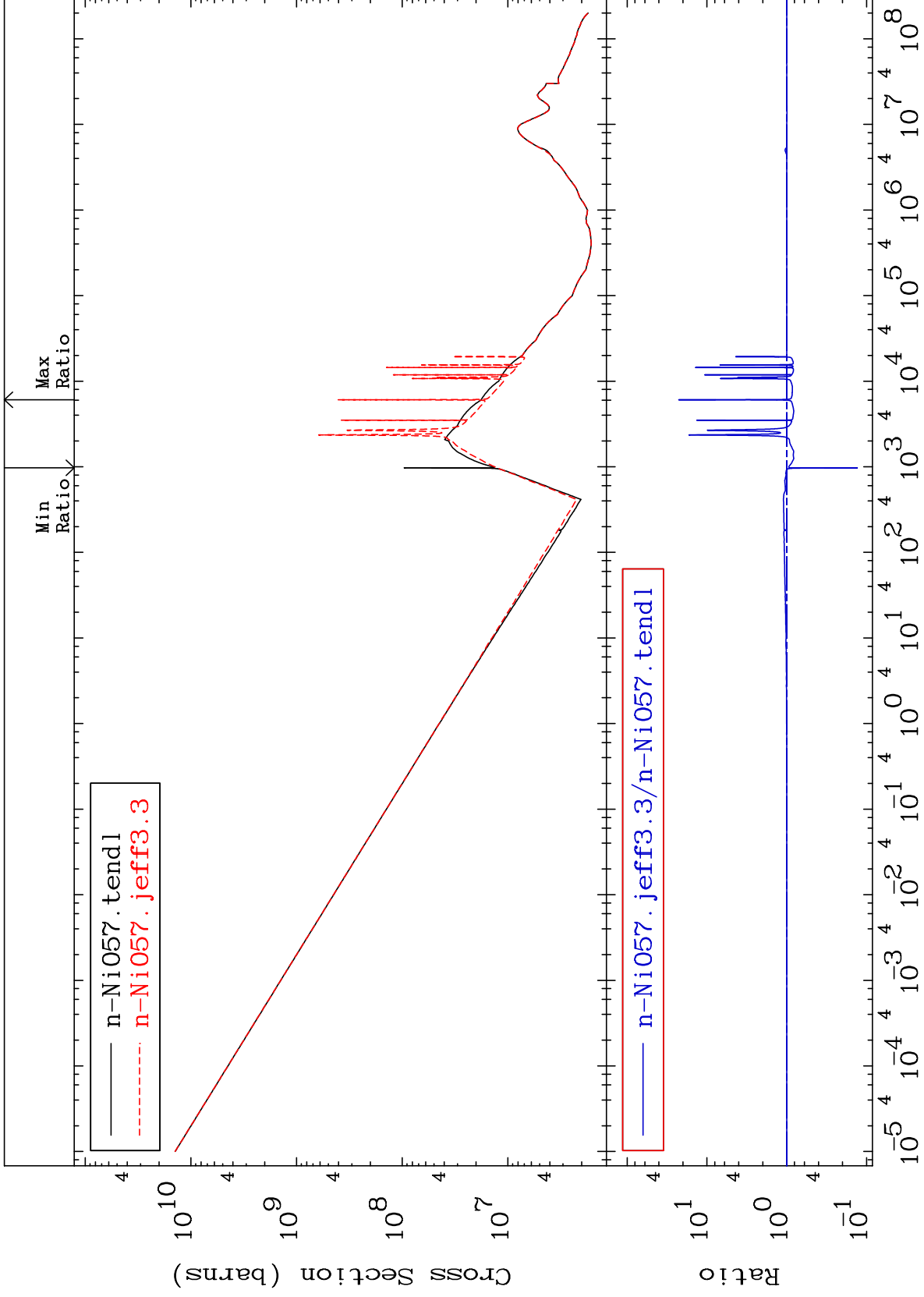
28-Ni-57
-99.73 To 9999. %

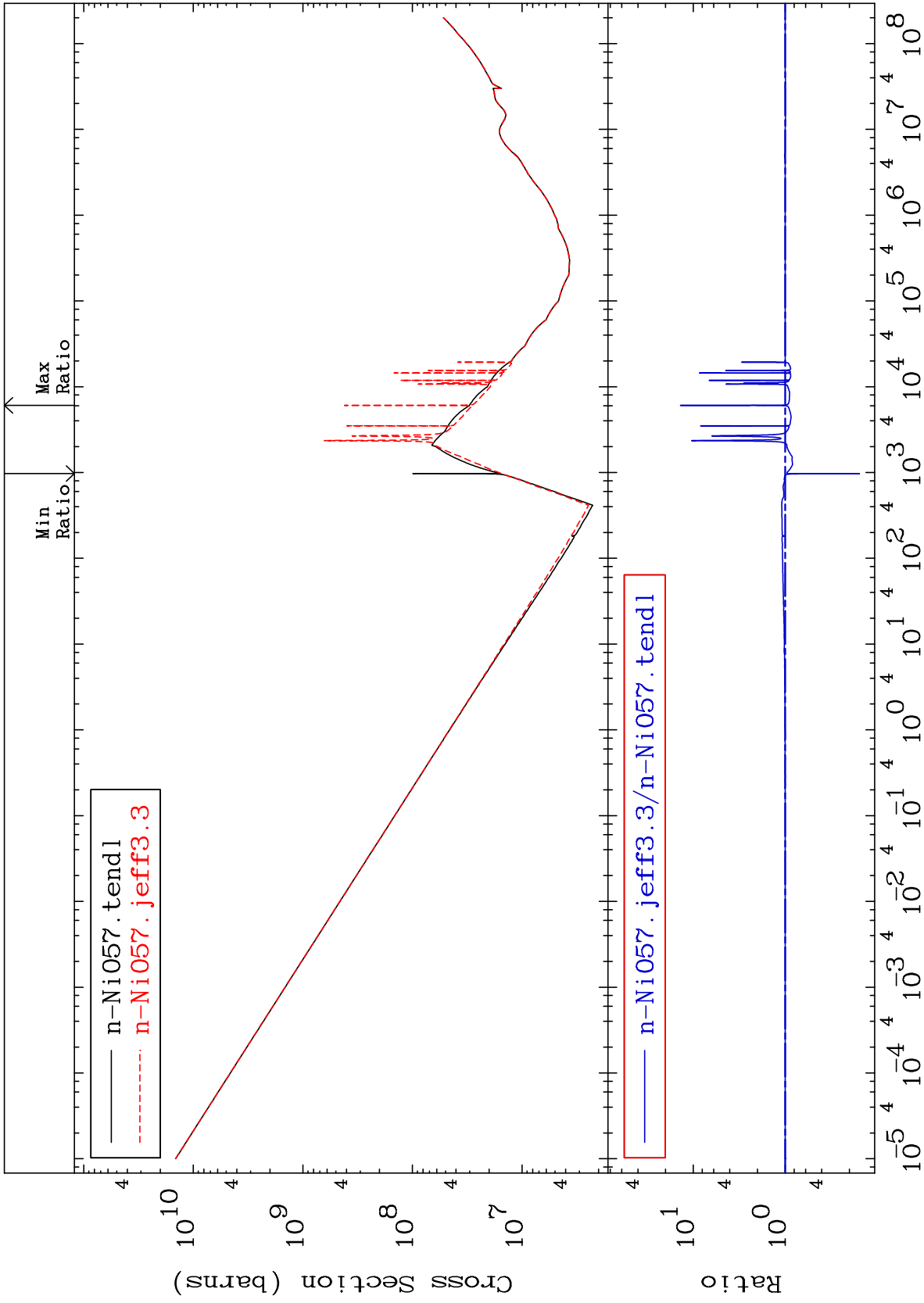


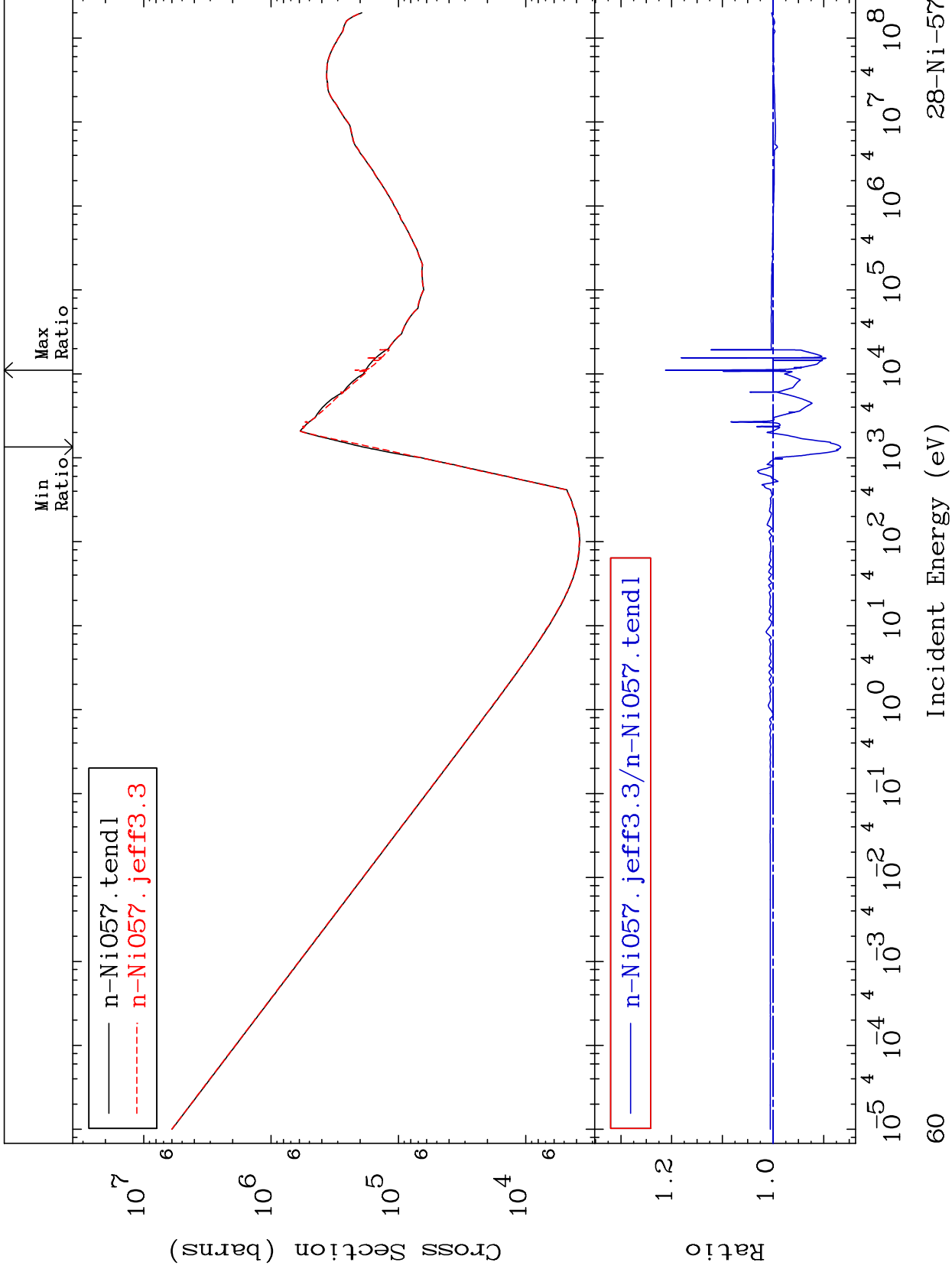
57

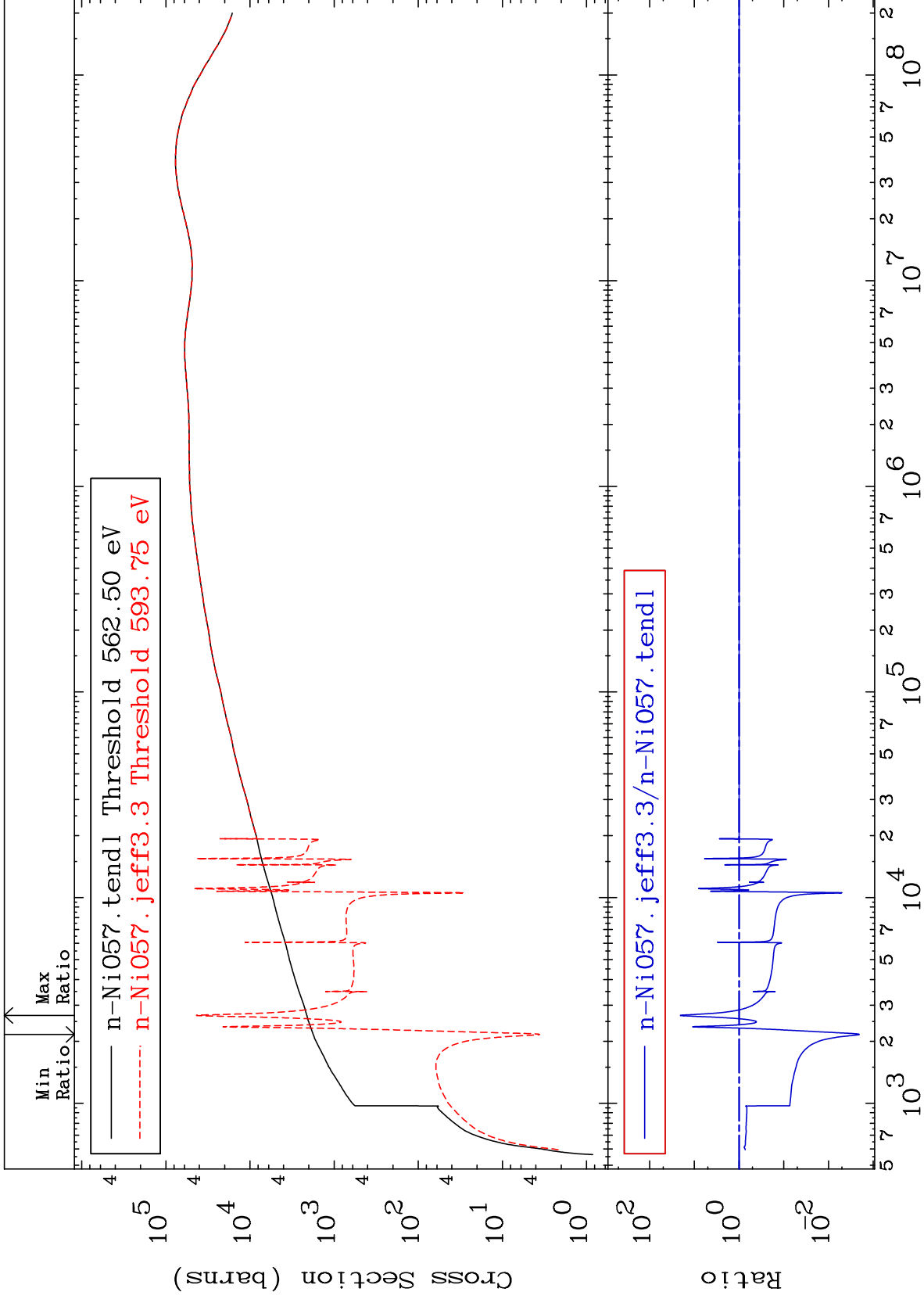
Incident Energy (eV)

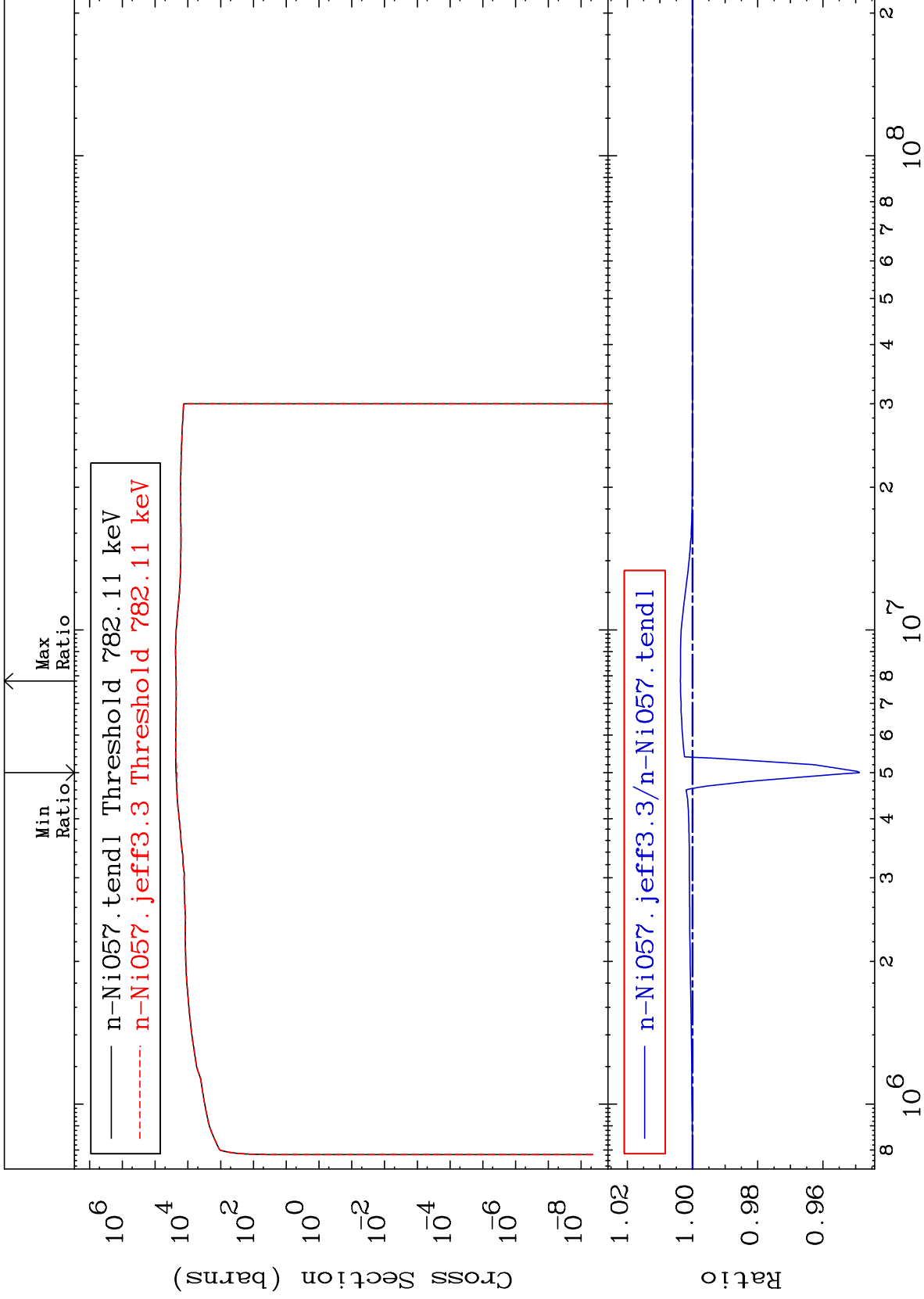
28-Ni-57

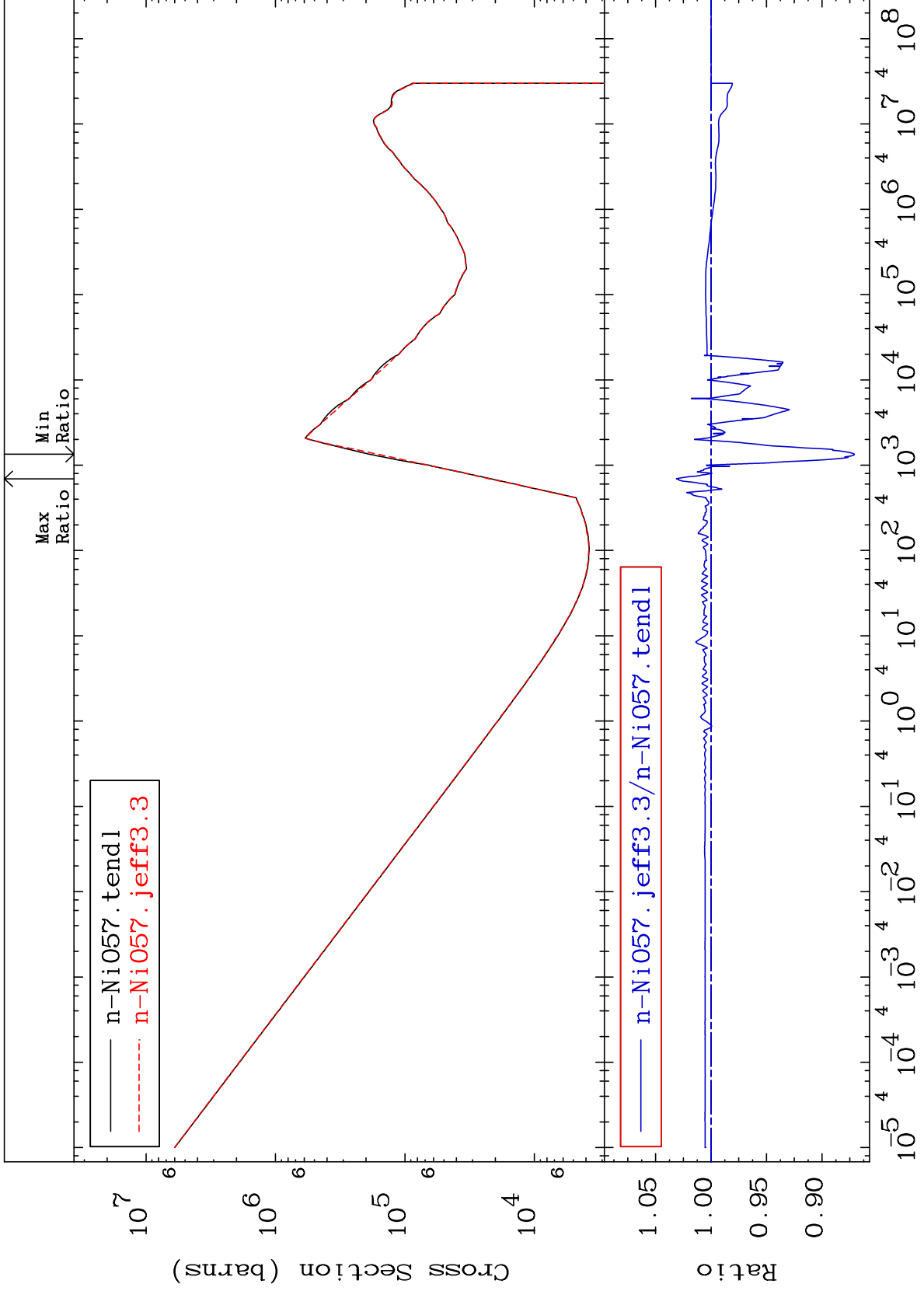


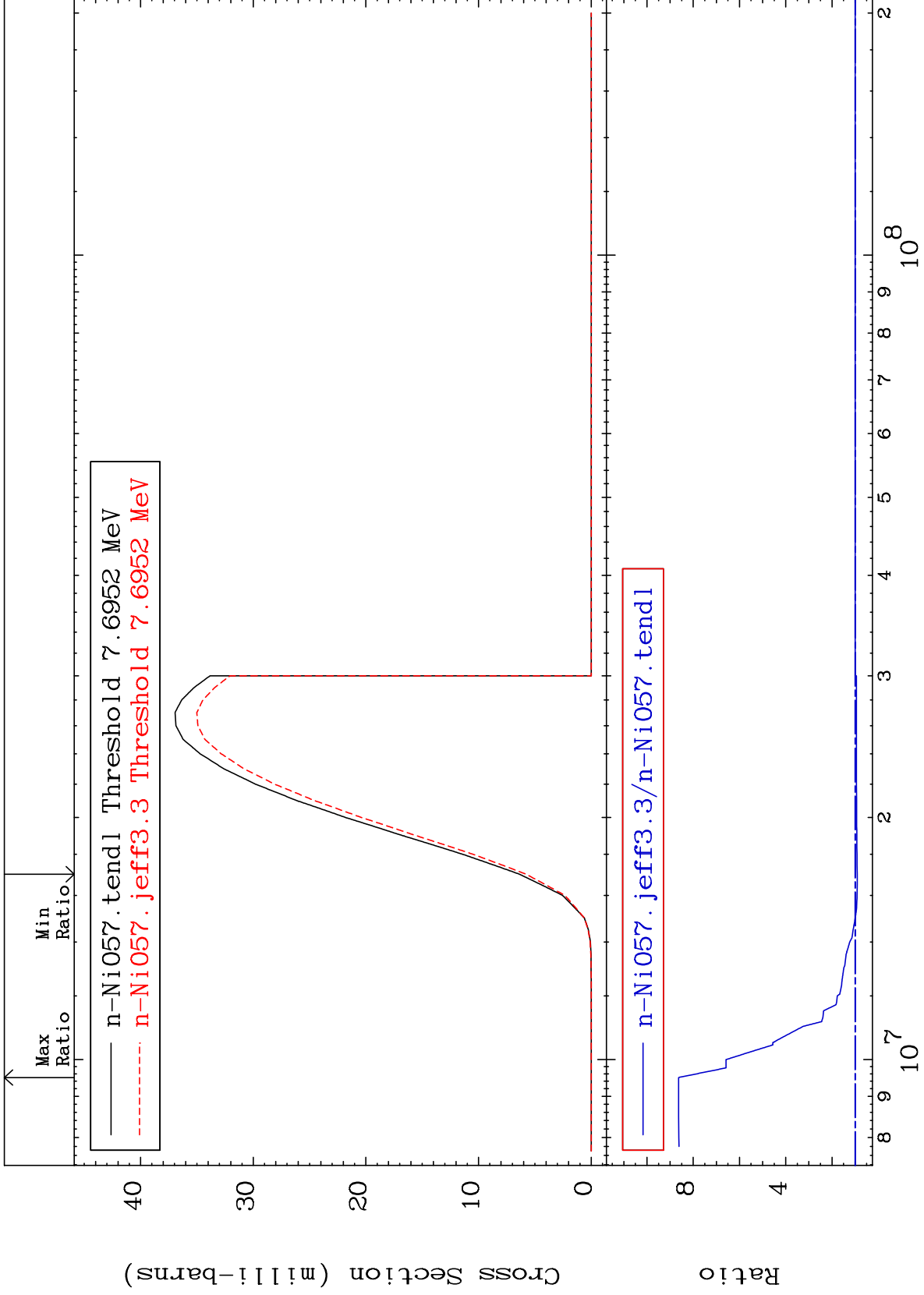




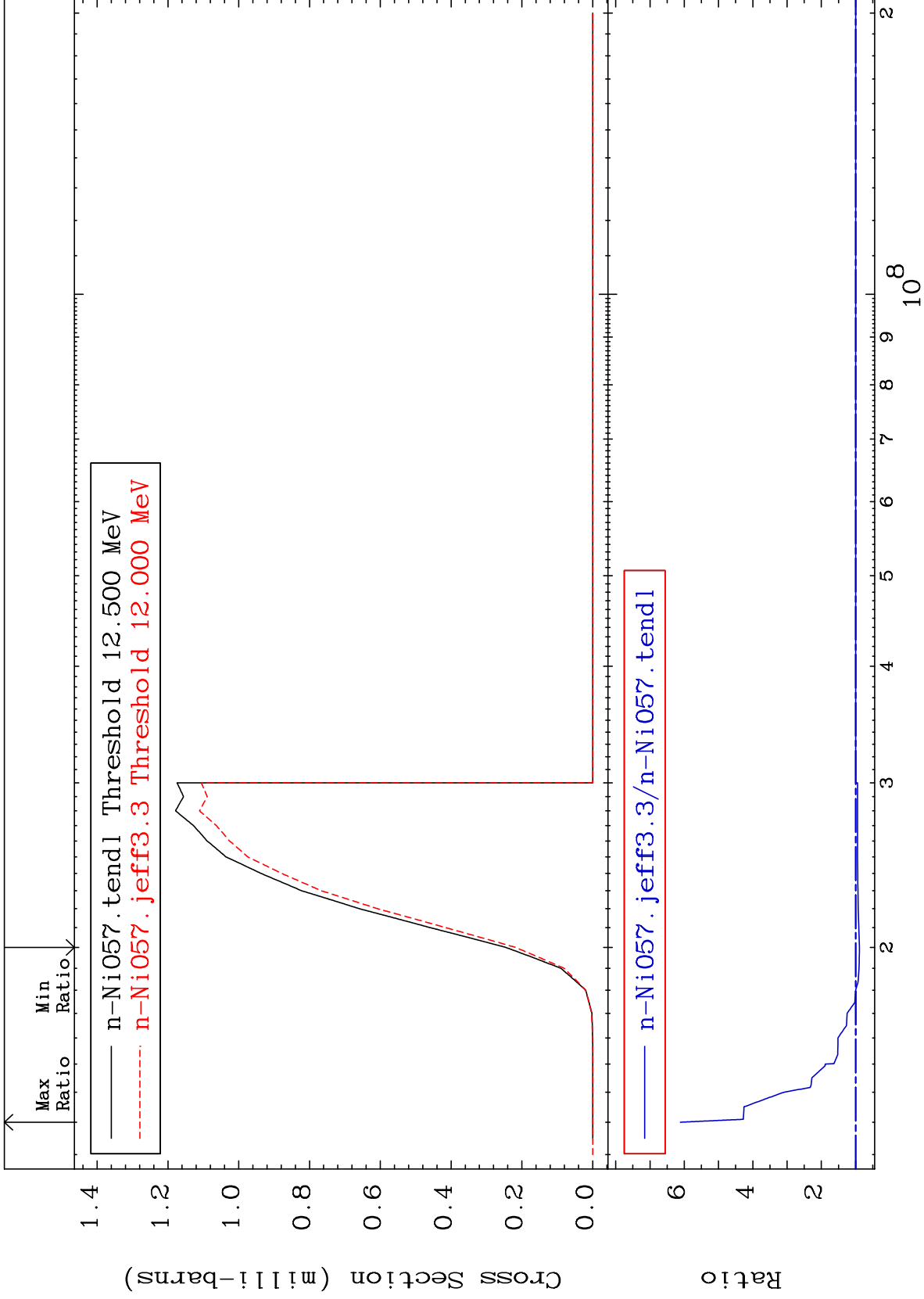


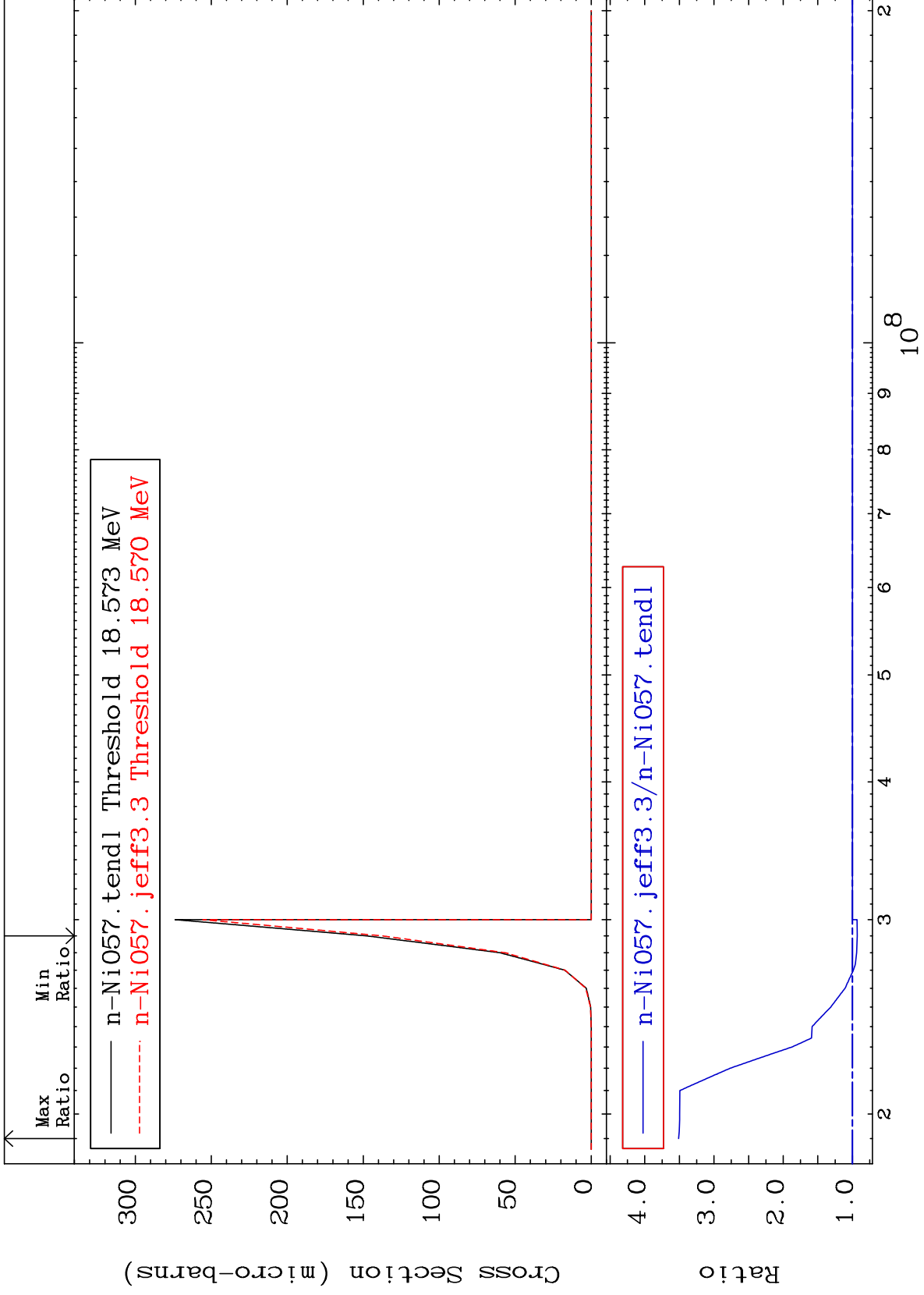




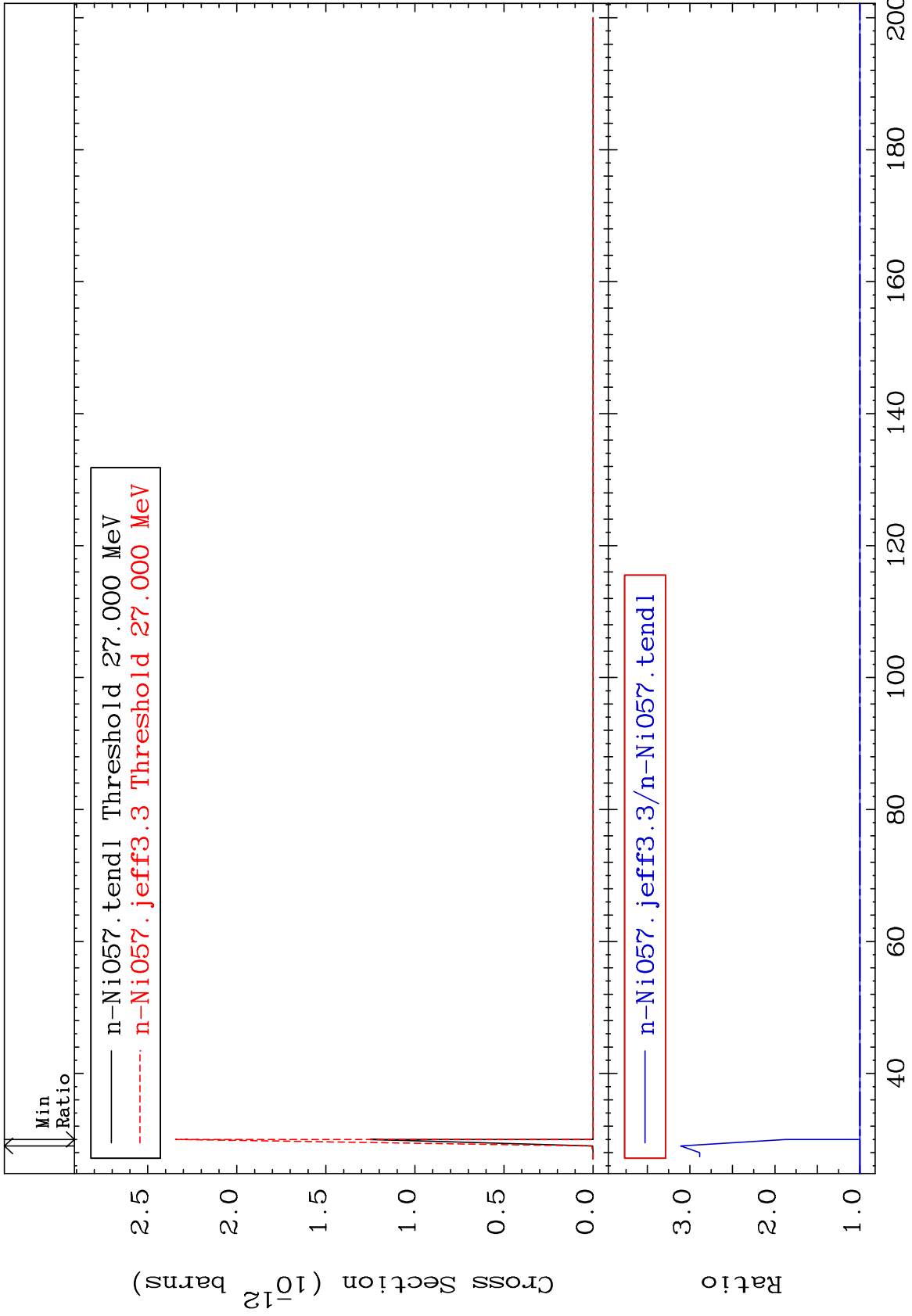


Radionuclide Production Cross Section -11.13 To 511.4 %

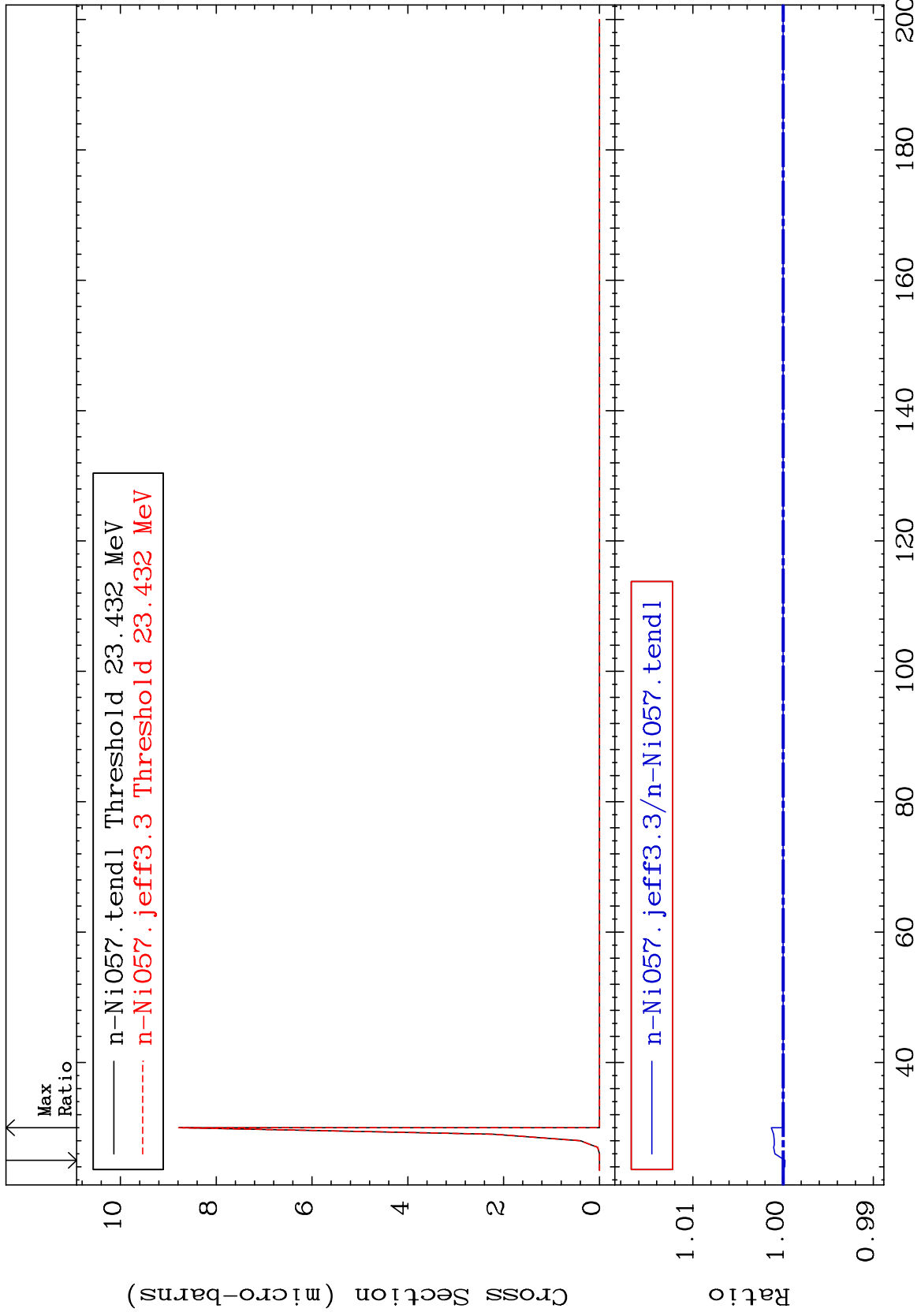




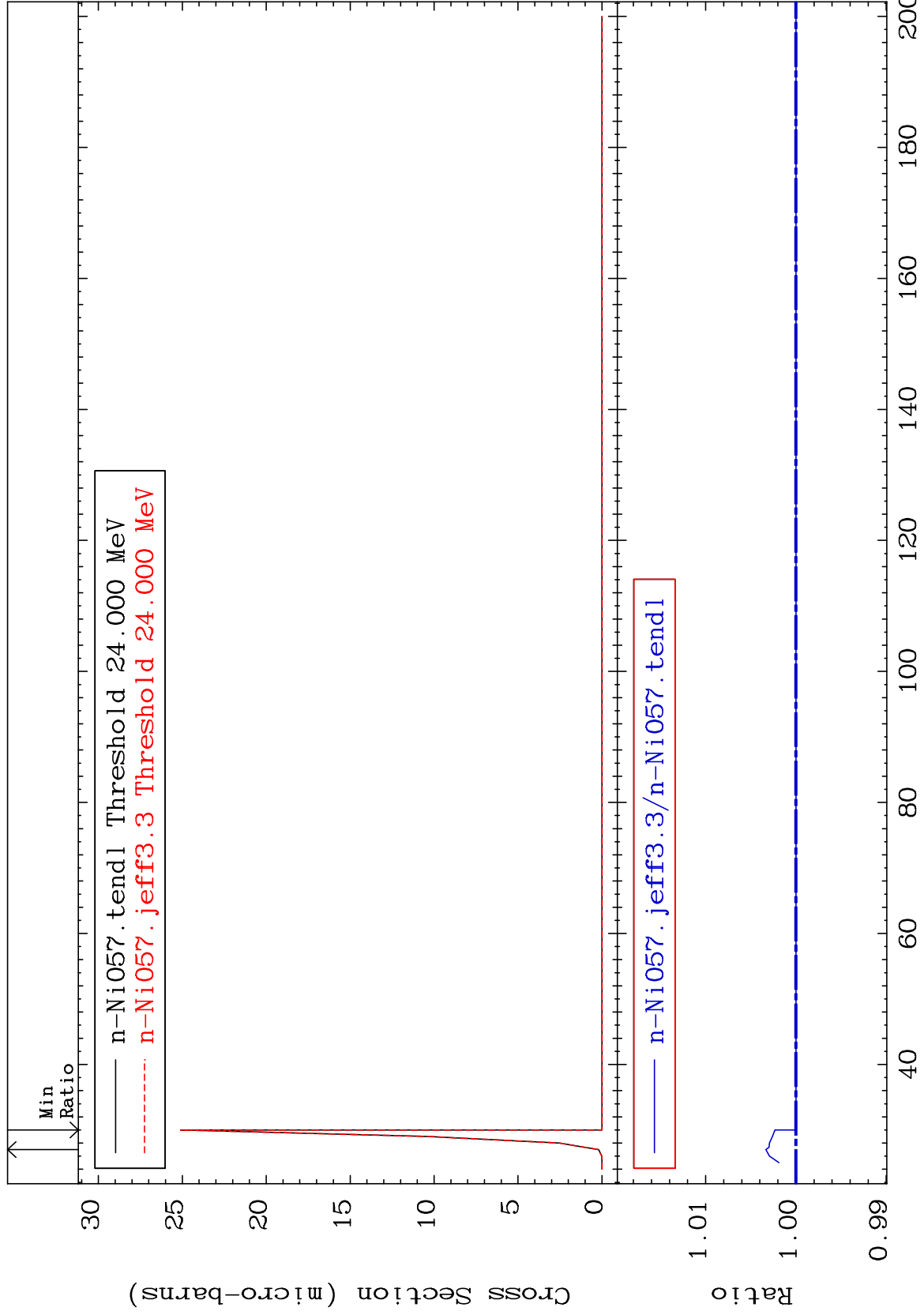
Radionuclide Production Cross Section 0.000 To 210.7 %

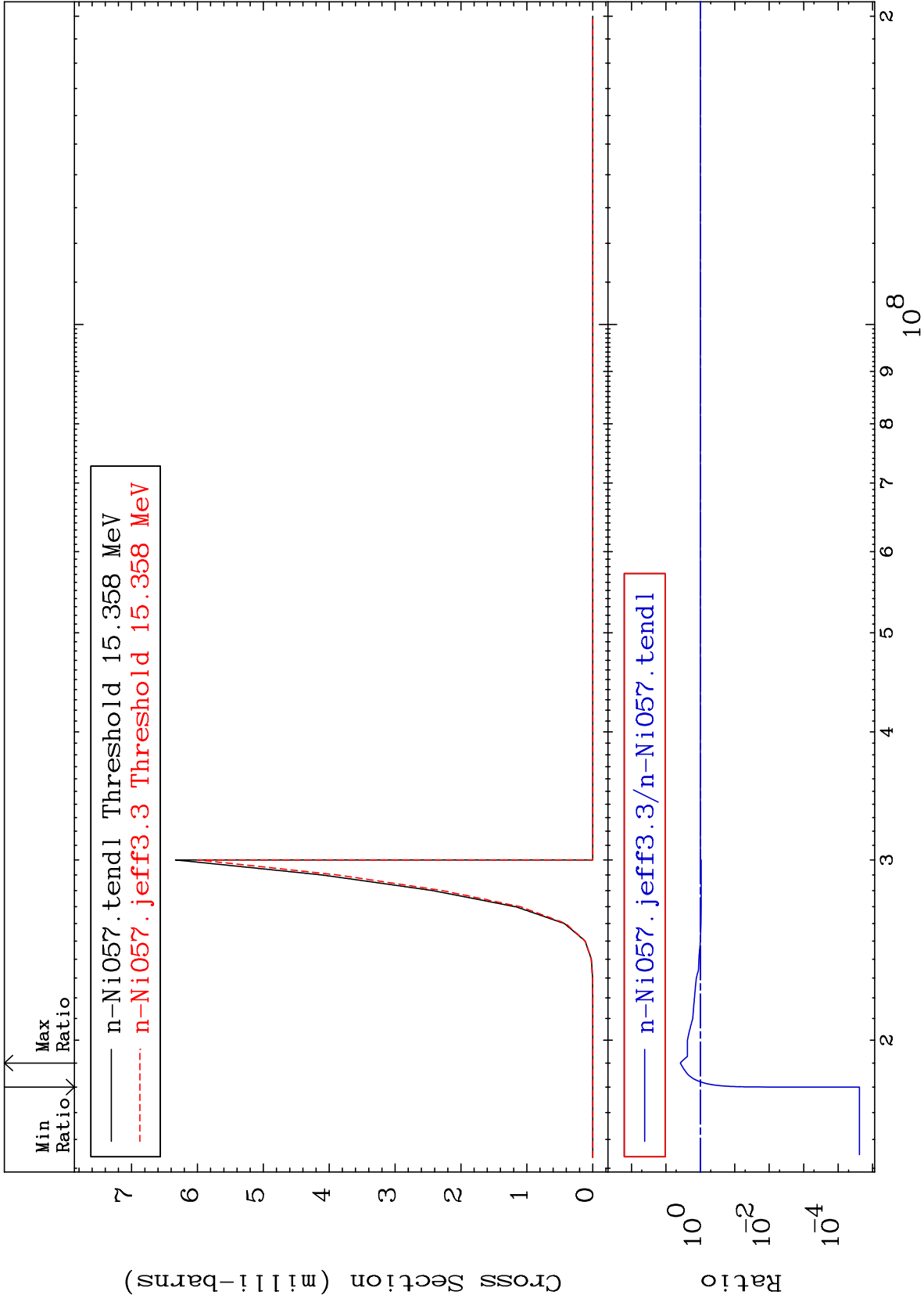


Radionuclide Production Cross Section -0.021 To 0.131 %

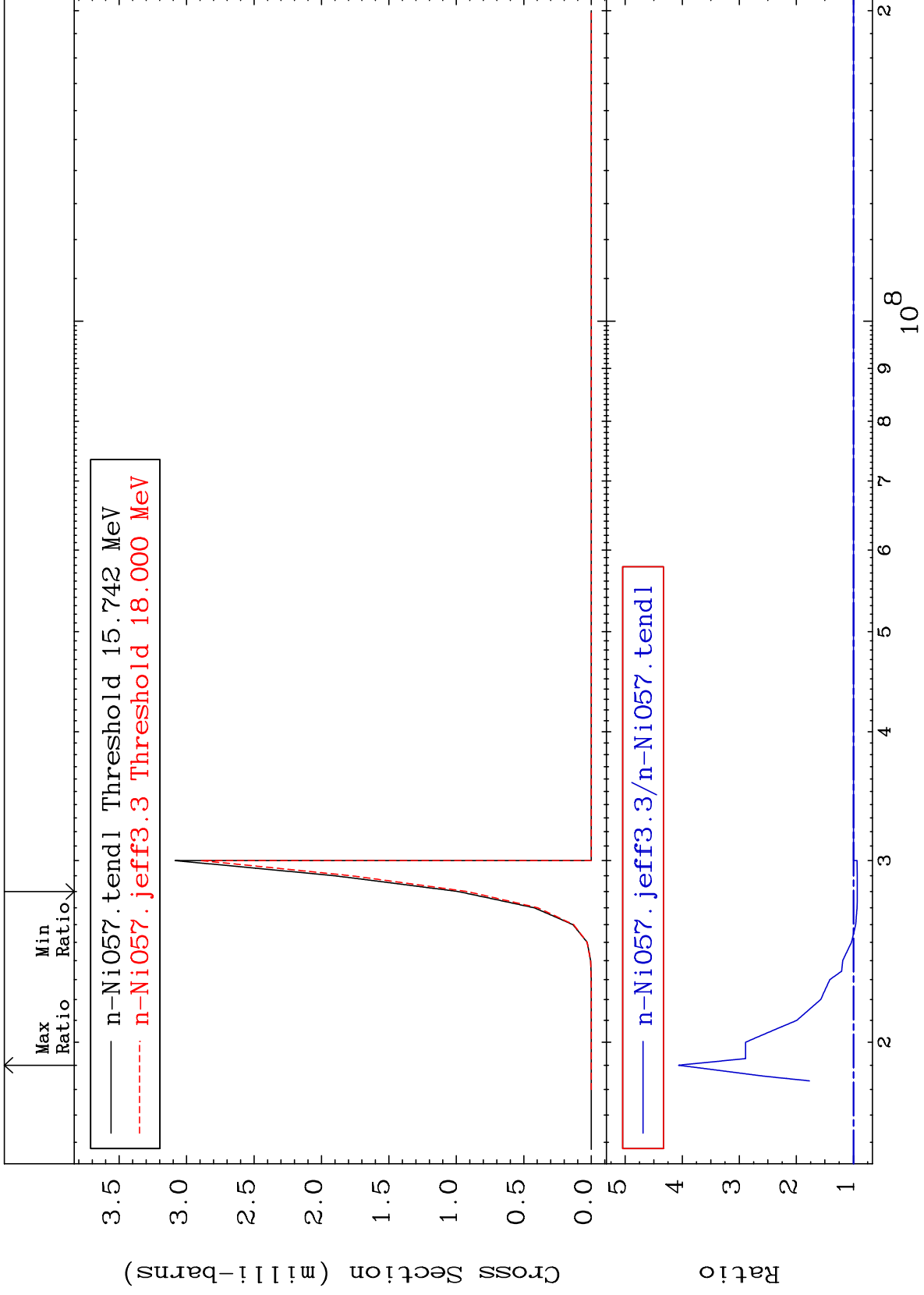


Radionuclide Production Cross Section 0.000 To 0.332 %

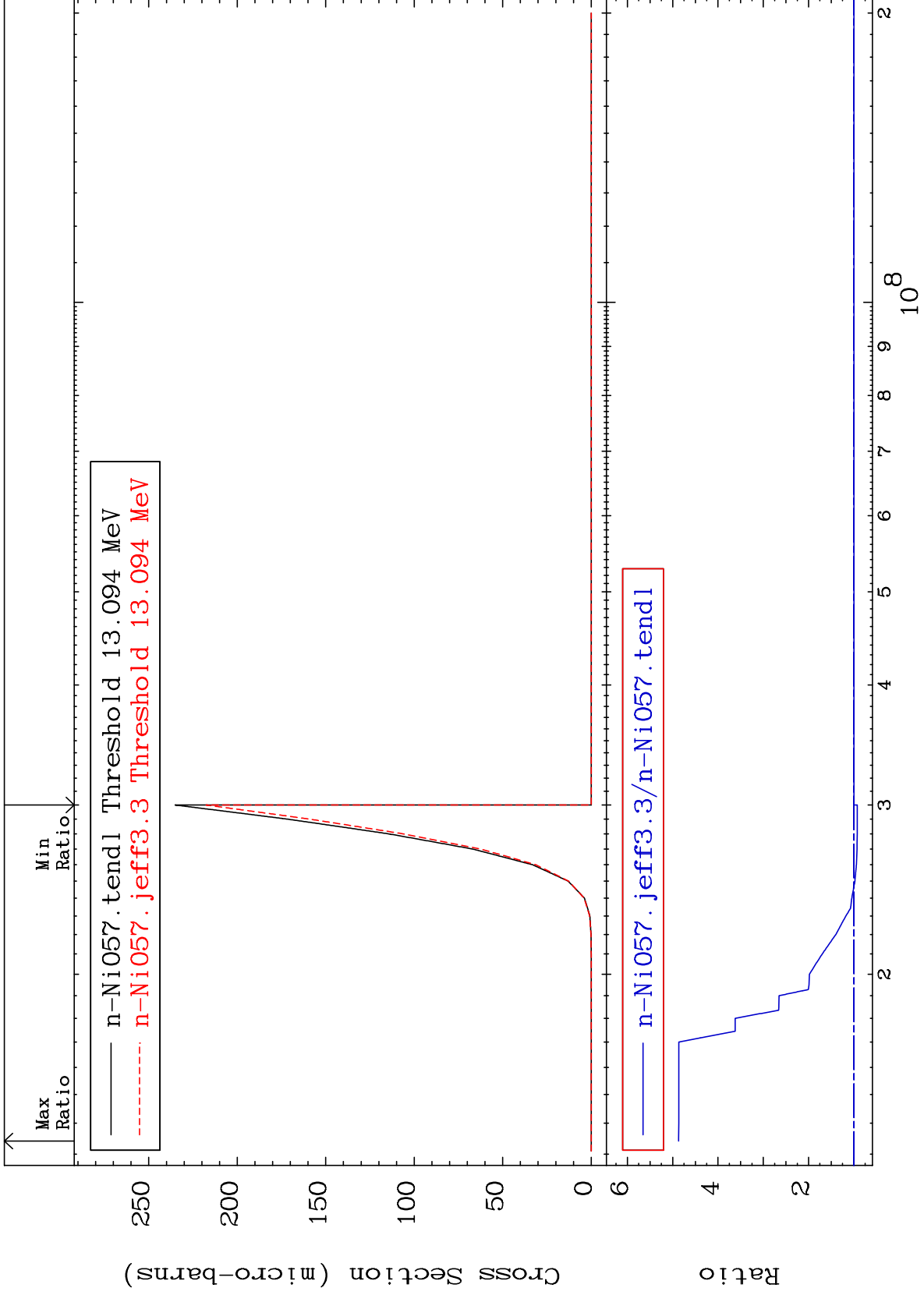




Radionuclide Production Cross Section -6.740 To 306.4 %



Radionuclide Production Cross Section -7.442 To 386.9 %



Radionuclide Production Cross Section -8.171 To 375.4 %

