

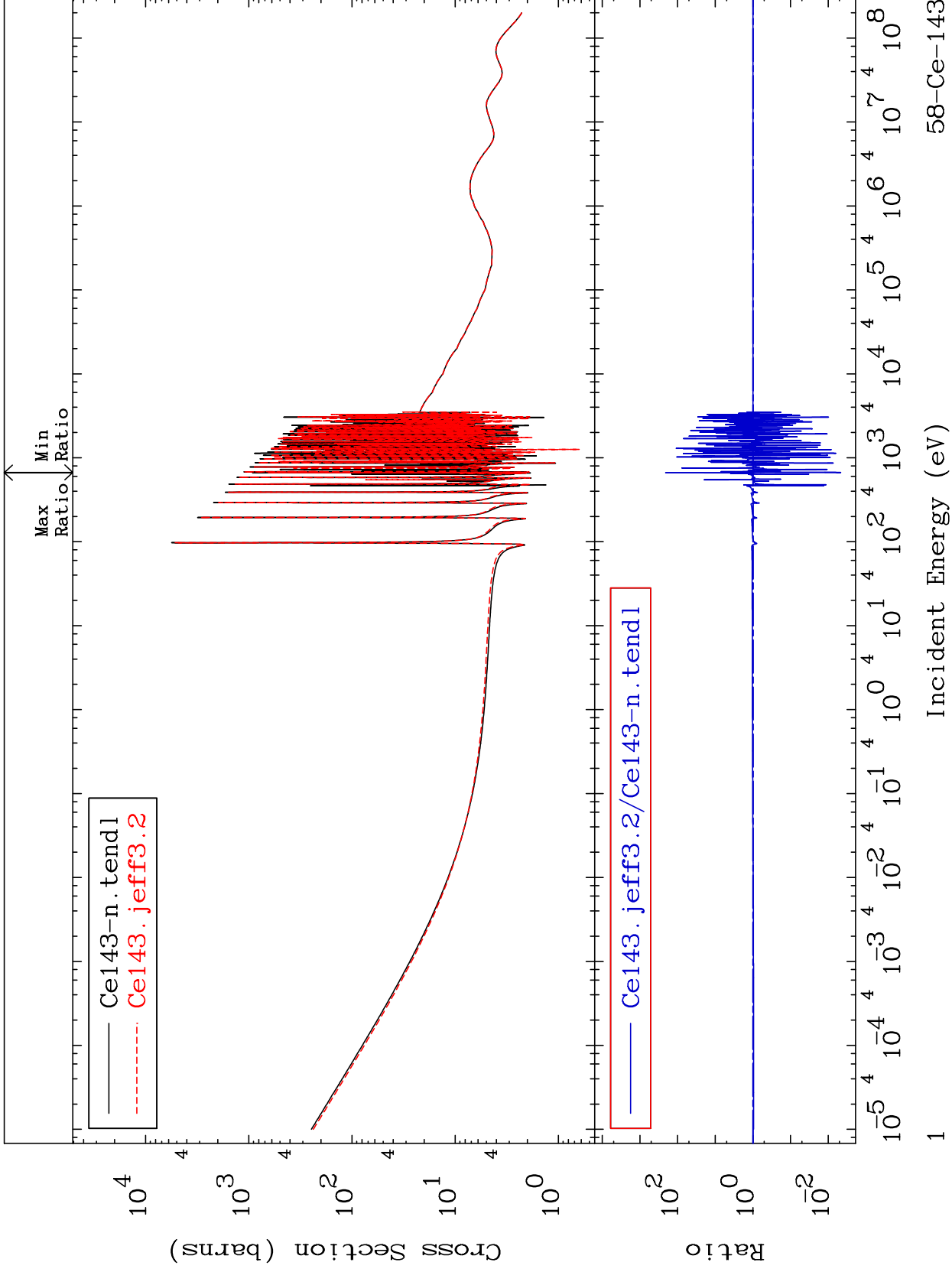
MAT 5846

Total

58-Ce-143

Cross Section

-99.53 To 9999. %



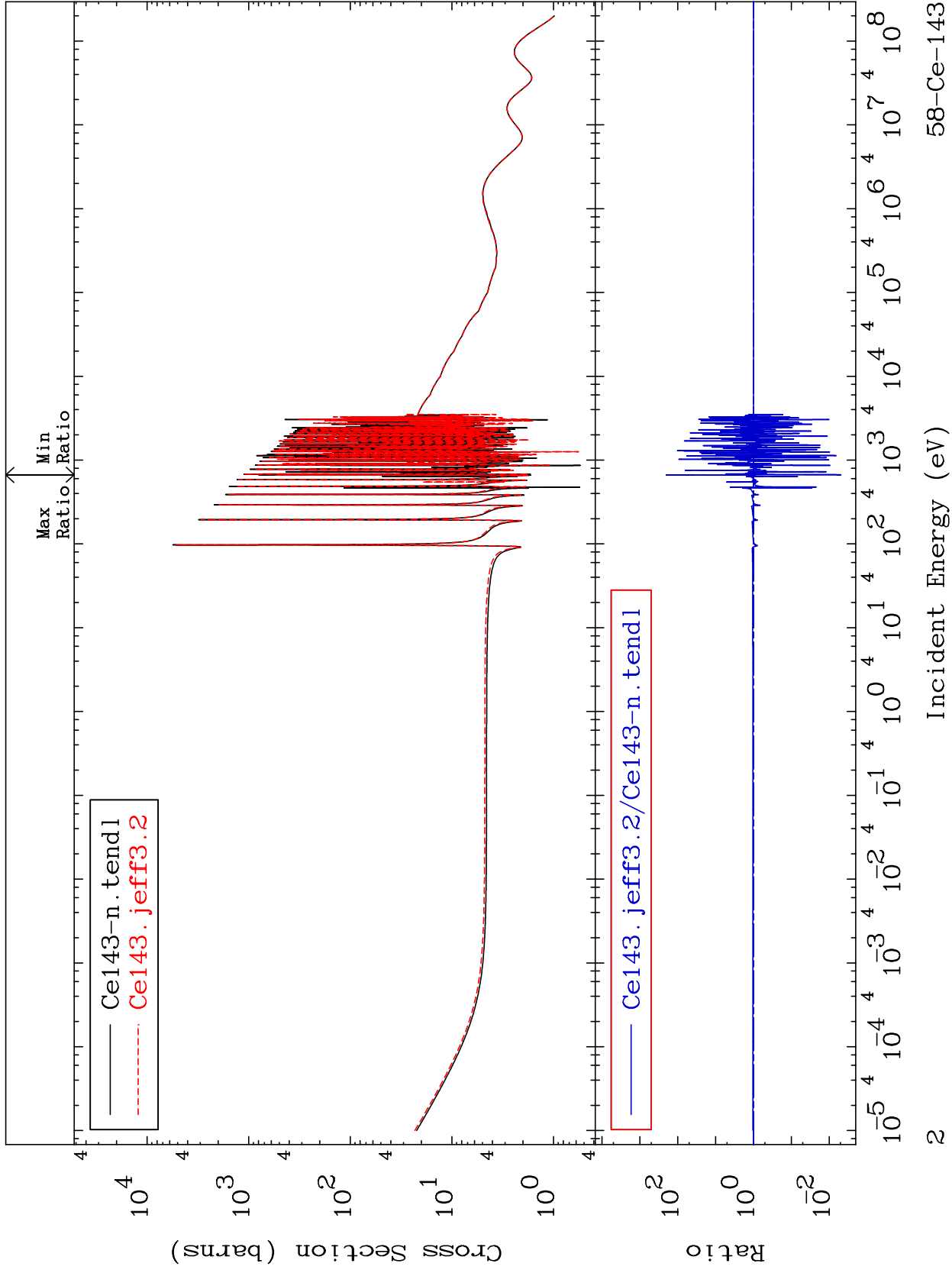
MAT 5846

Elastic

58-Ce-143

Cross Section

-99.51 To 9999. %



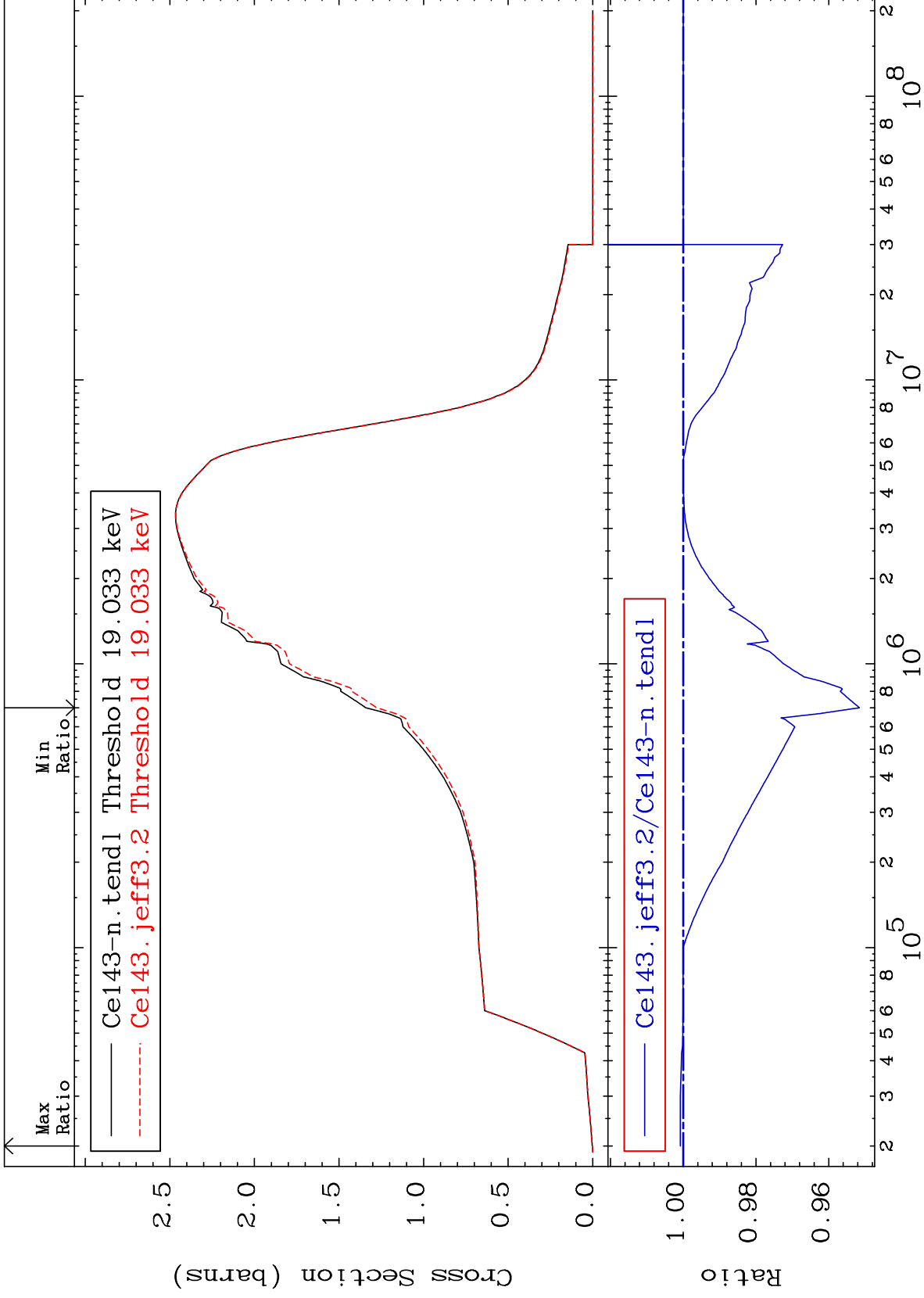
Incident Energy (eV)

58-Ce-143

MAT 5846

Inelastic
Cross Section

58-Ce-143
-4.845 To 0.078 %



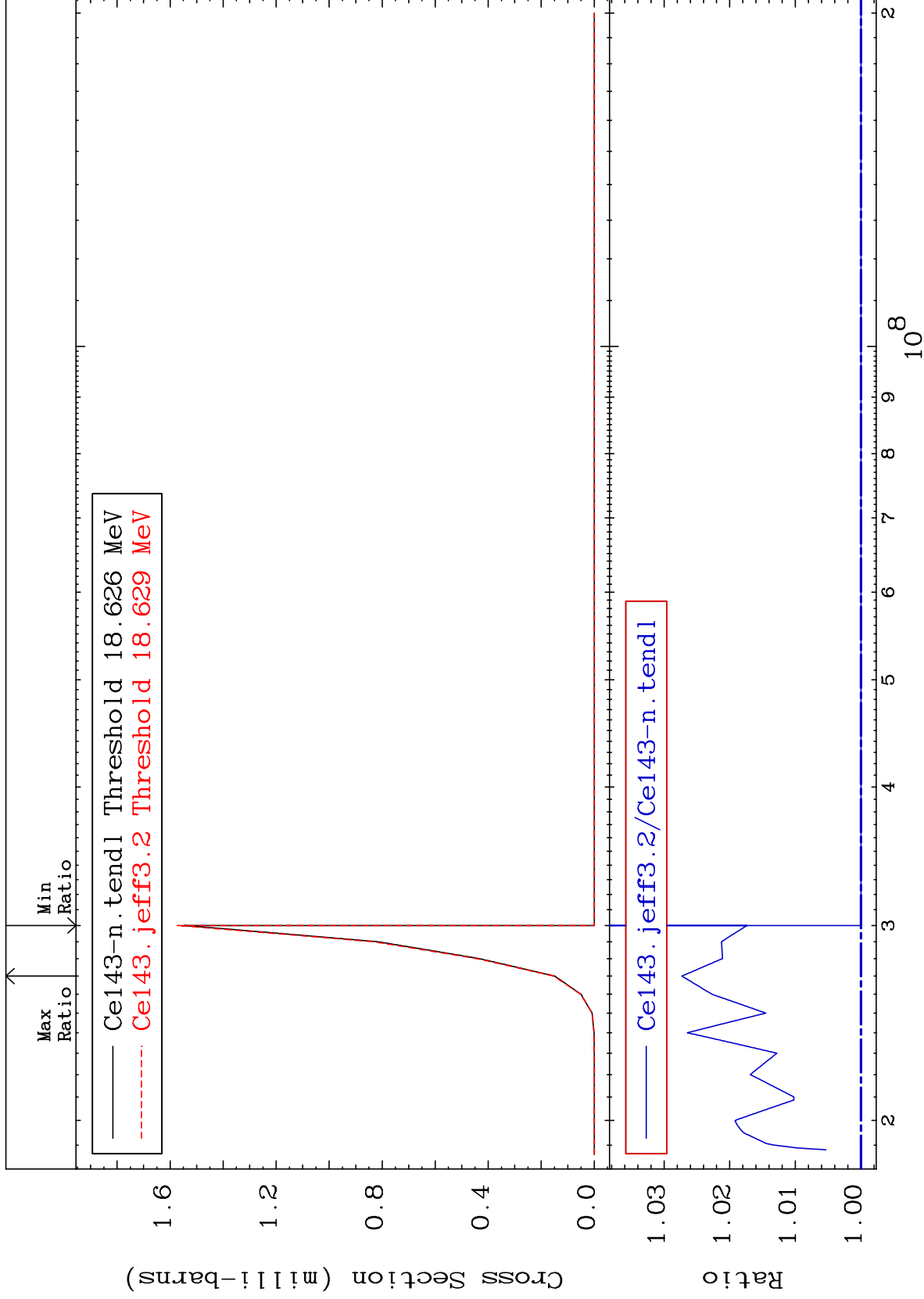
MAT 5846

(n,2n) d

58-Ce-143

Cross Section

0.000 To 2.728 %



MAT 5846

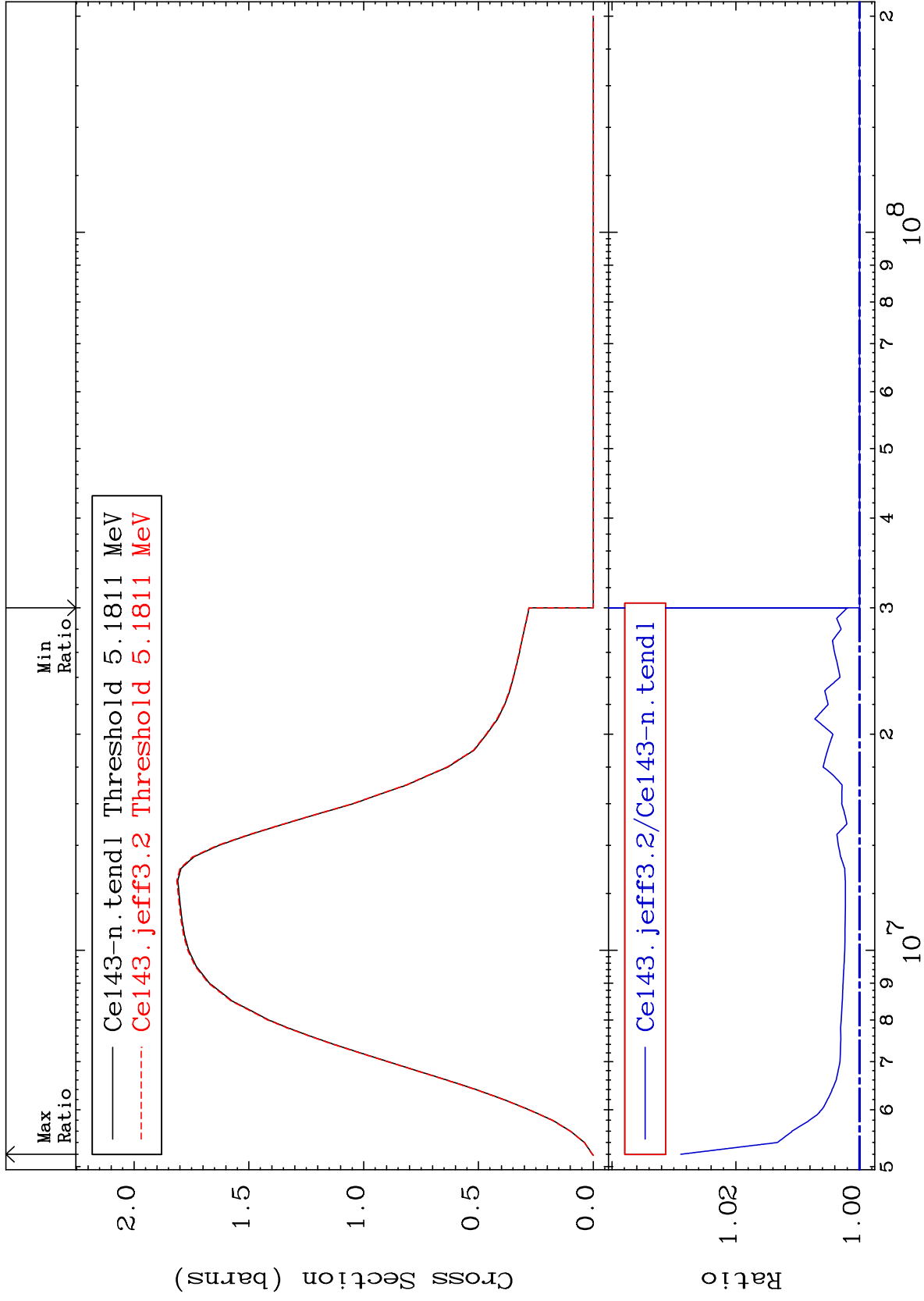
(n,2n)

58-Ce-143

Cross Section

0.000

To 2.889 %



5

Incident Energy (eV)

58-Ce-143

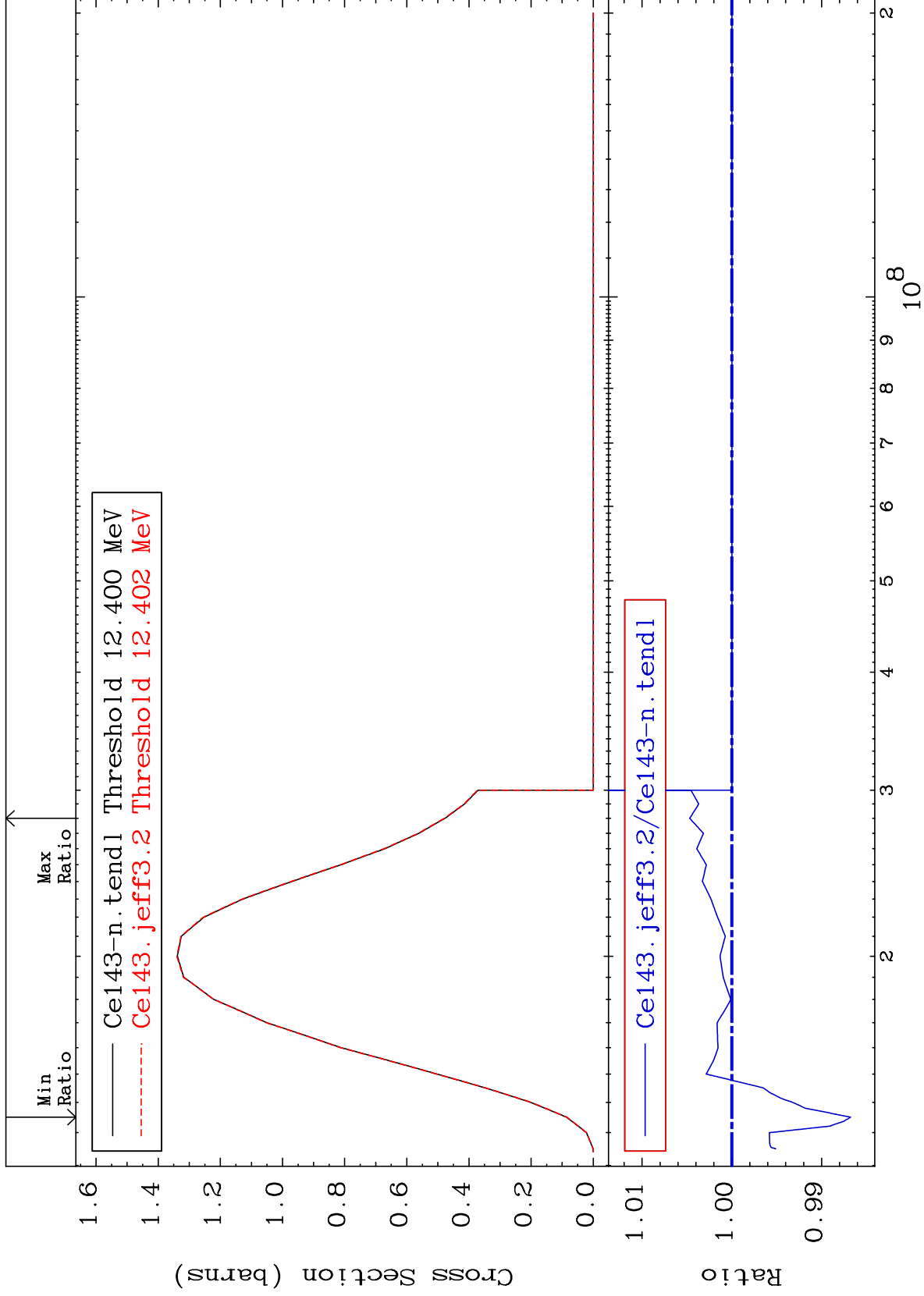
MAT 5846

(n,3n)

58-Ce-143

Cross Section

-1.323 To 0.470 %



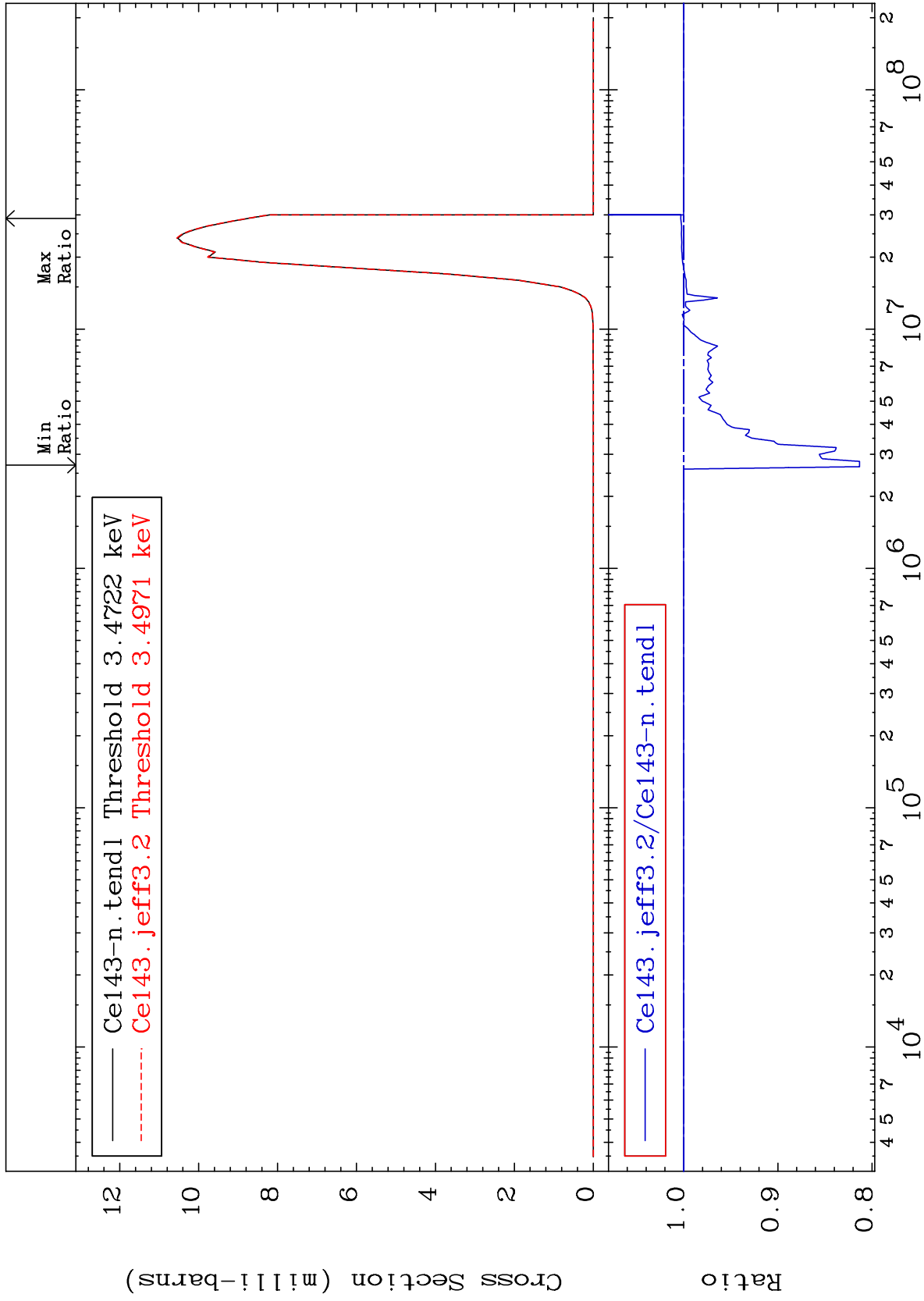
MAT 5846

$(n, n') \alpha$

58-Ce-143

Cross Section

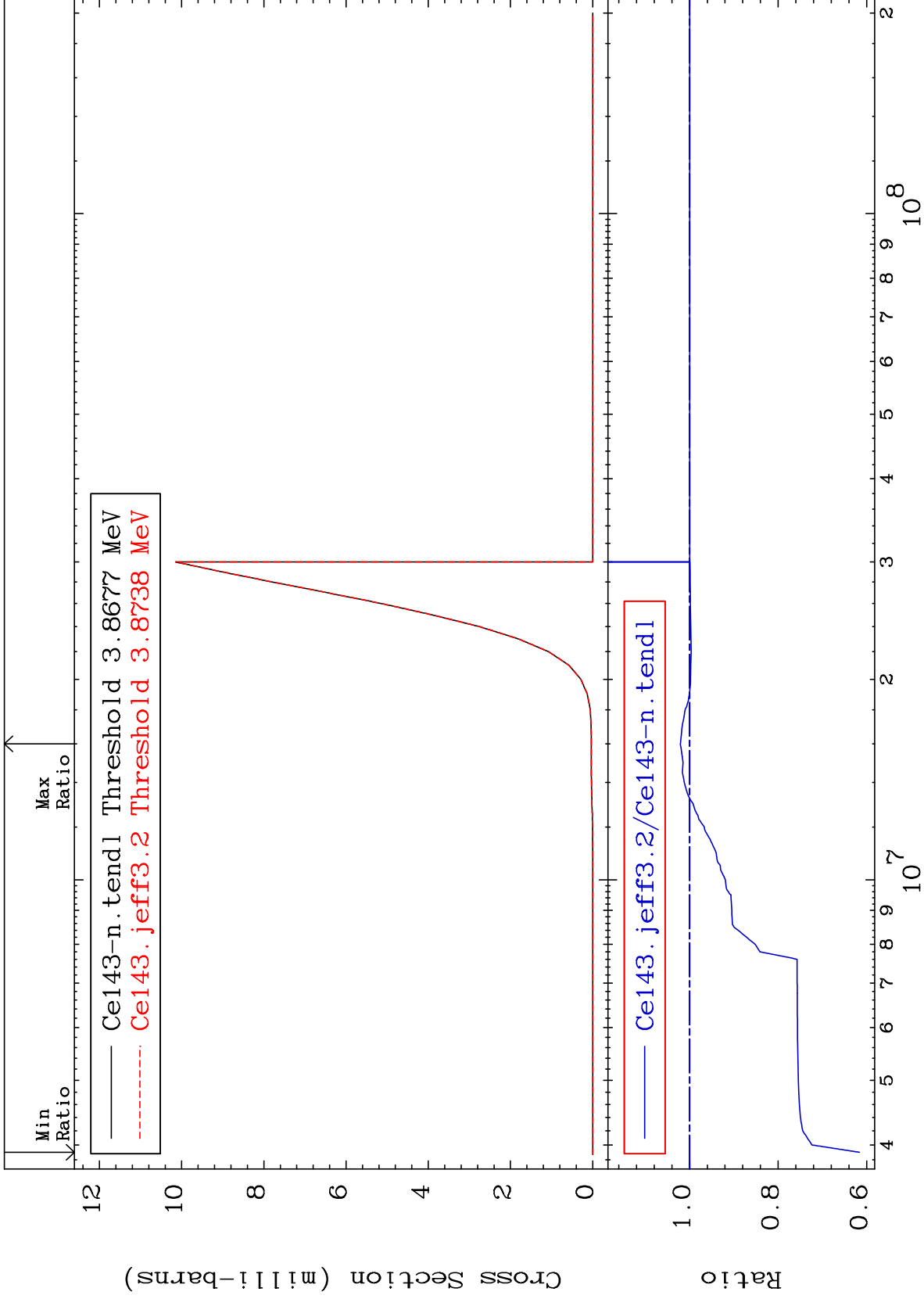
-18.68 To 0.314 %



MAT 5846

(n,2n) α
Cross Section

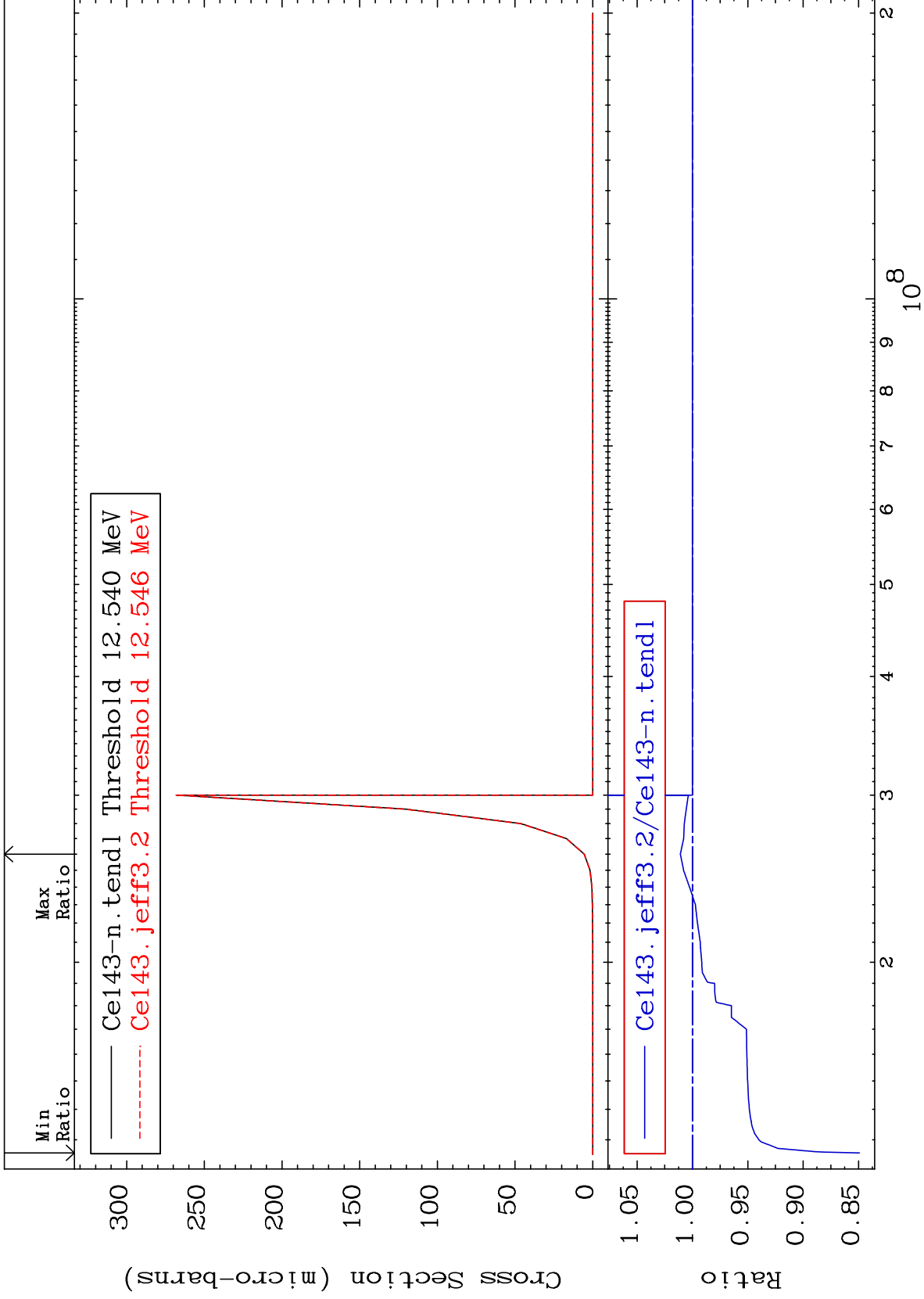
58-Ce-143
-38.36 To 2.091 %



MAT 5846

(n,3n) α
Cross Section

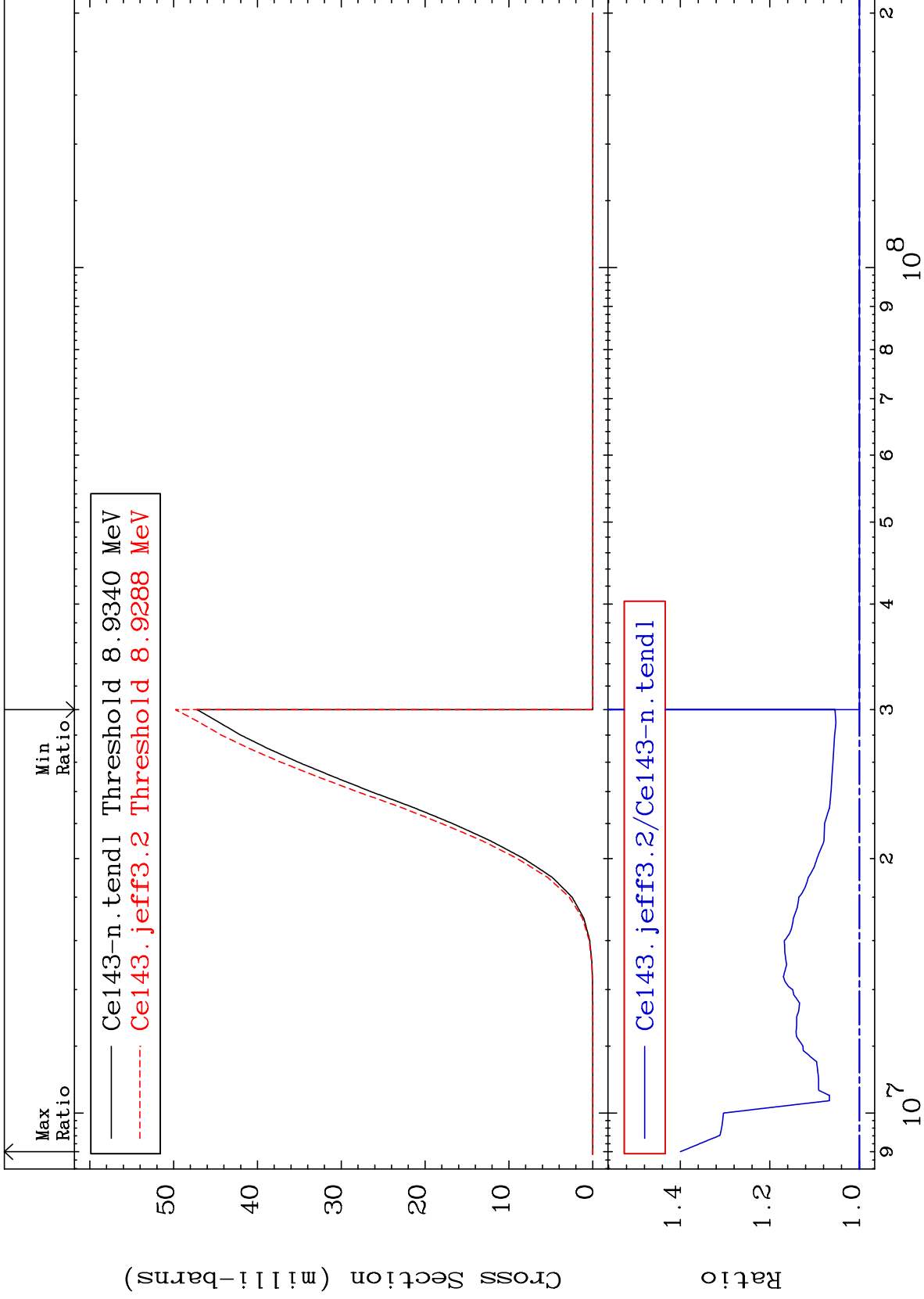
58-Ce-143
-15.08 To 1.091 %



MAT 5846

(n, n') p
Cross Section

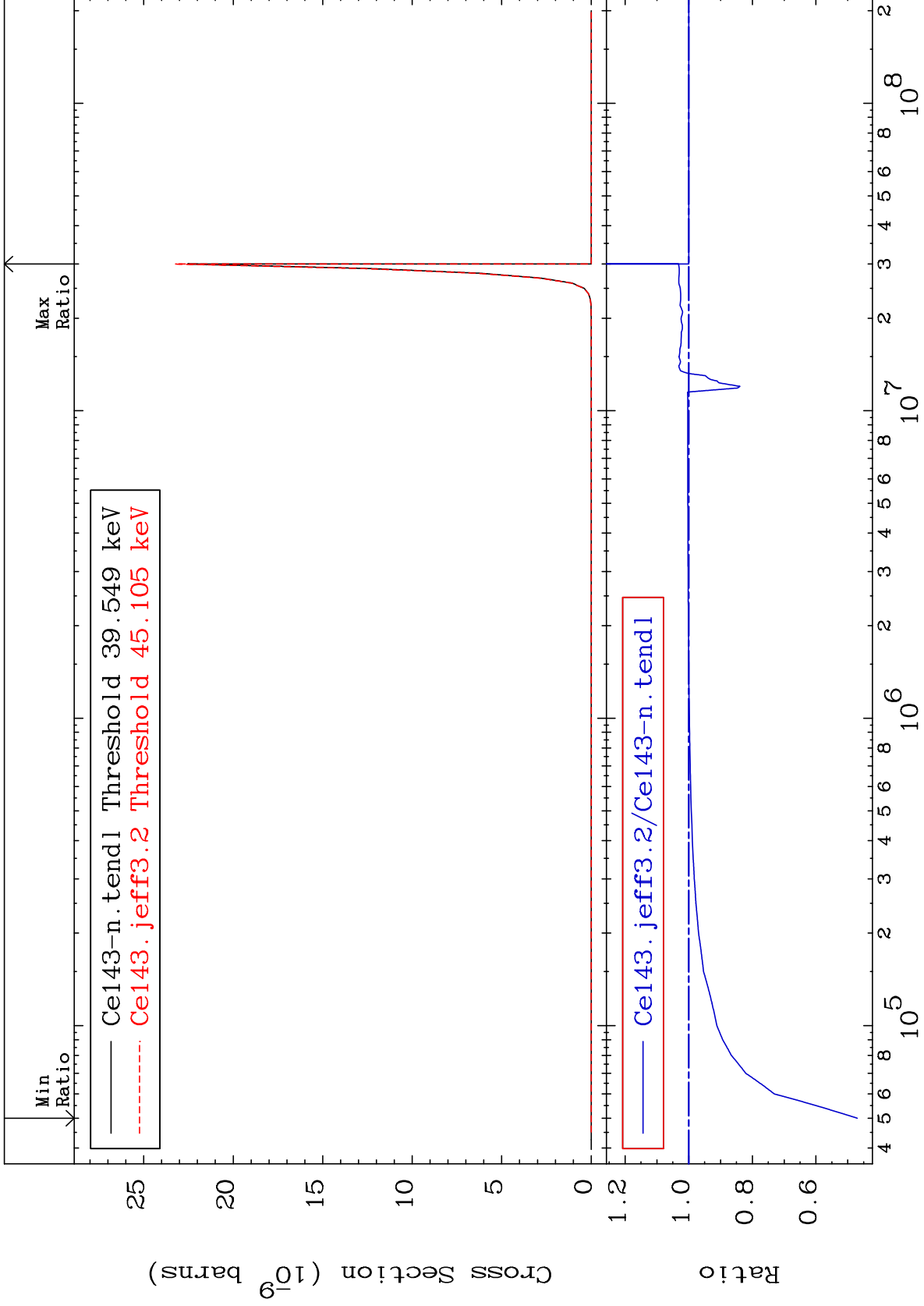
58-Ce-143
To 39.99 %



MAT 5846

(n, n') 2α
Cross Section

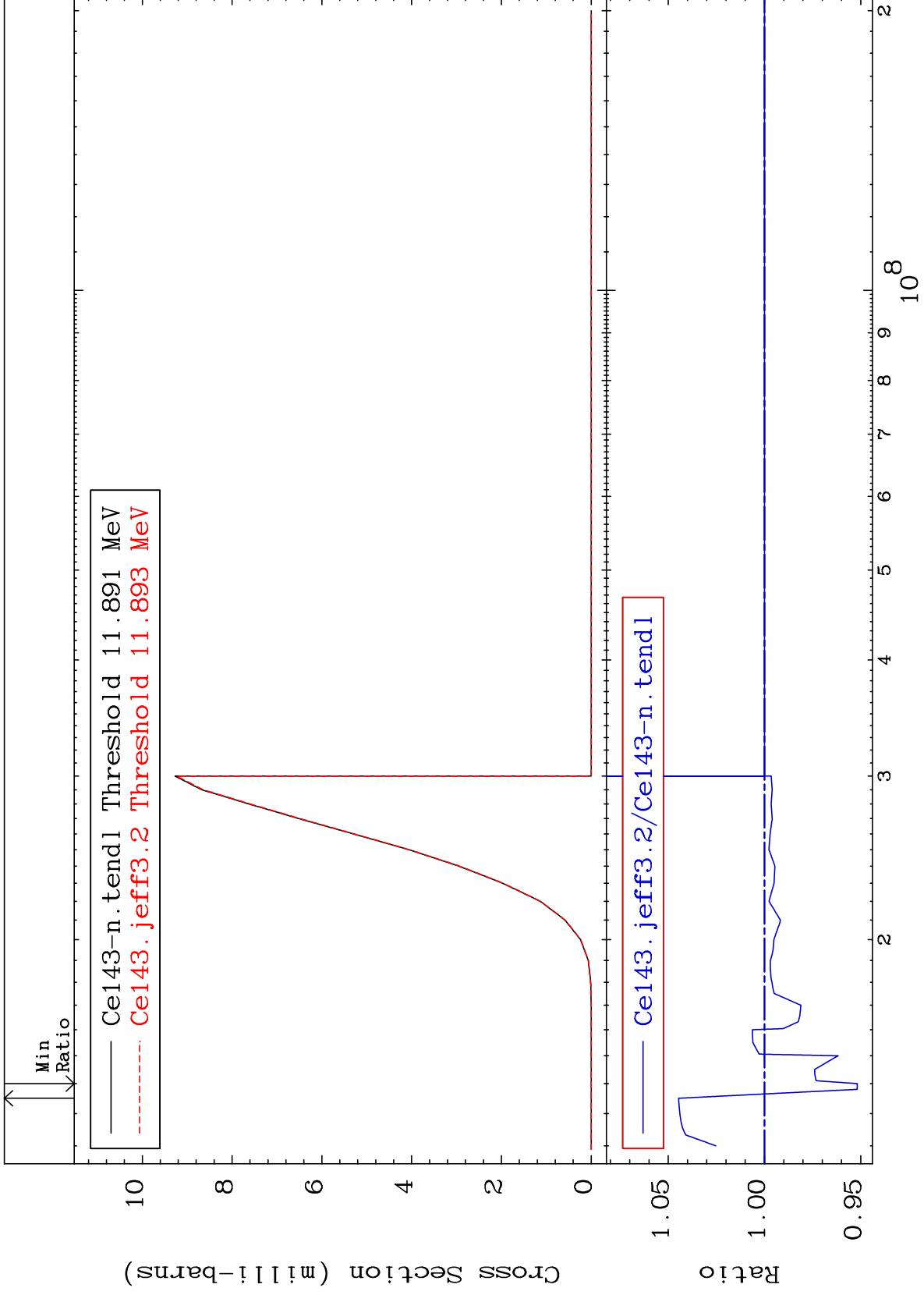
58-Ce-143
-52.98 To 3.168 %



MAT 5846

(n,n') d
Cross Section

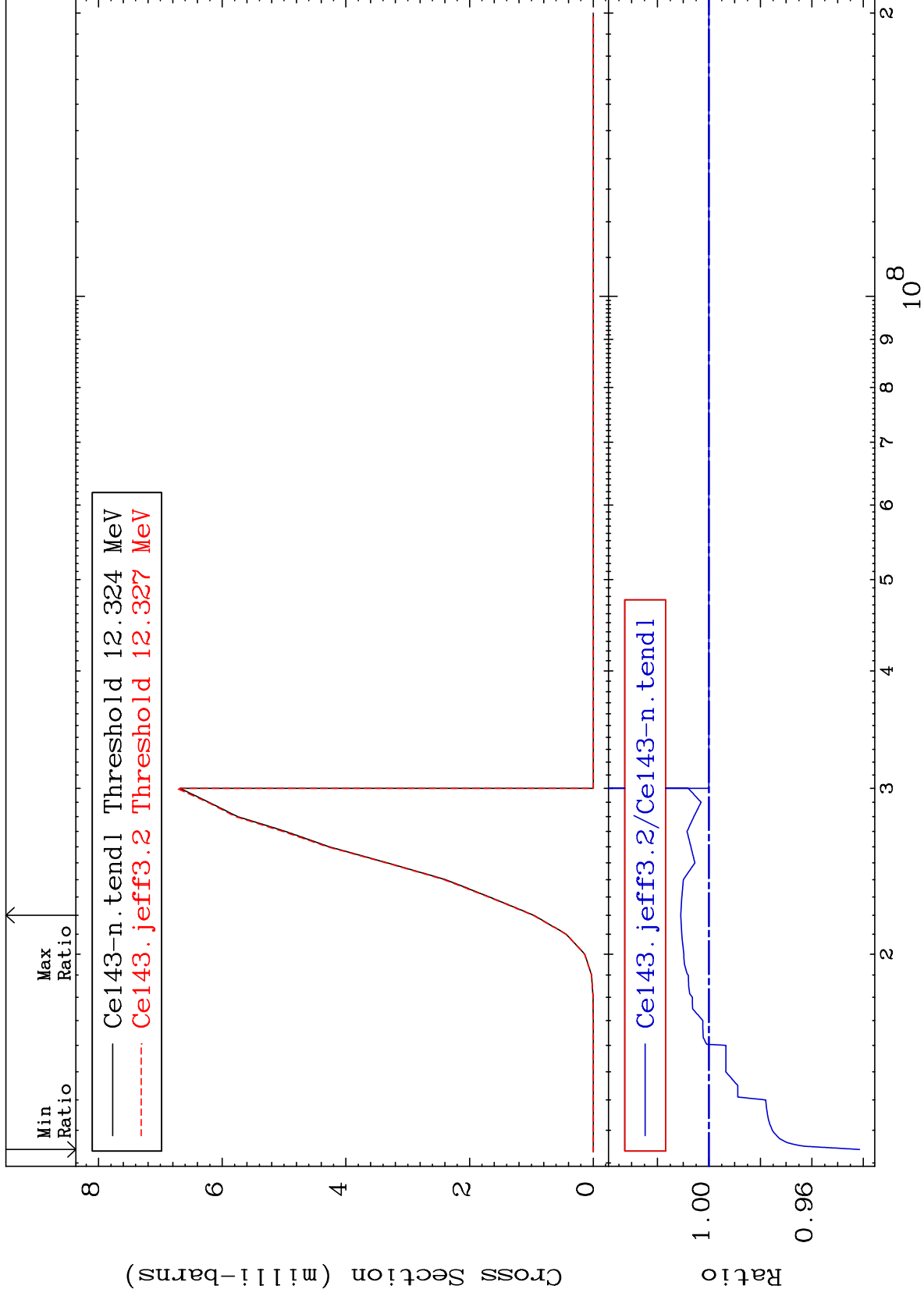
58-Ce-143
-4.817 To 4.459 %



MAT 5846

(n,n') t
Cross Section

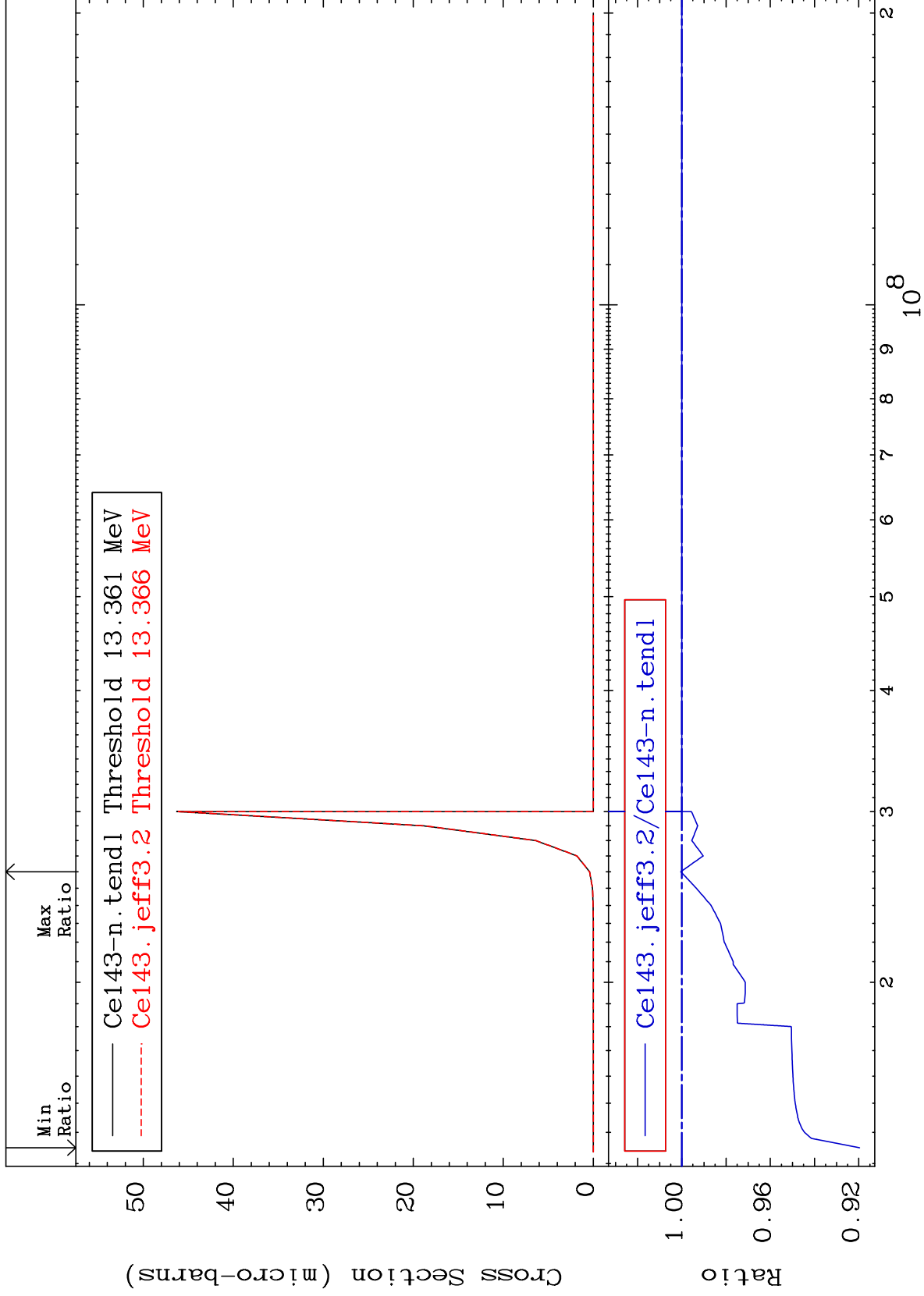
58-Ce-143
-5.853 To 1.093 %



MAT 5846

(n, n') He-3
Cross Section

58-Ce-143
-8.033 To 0.048 %



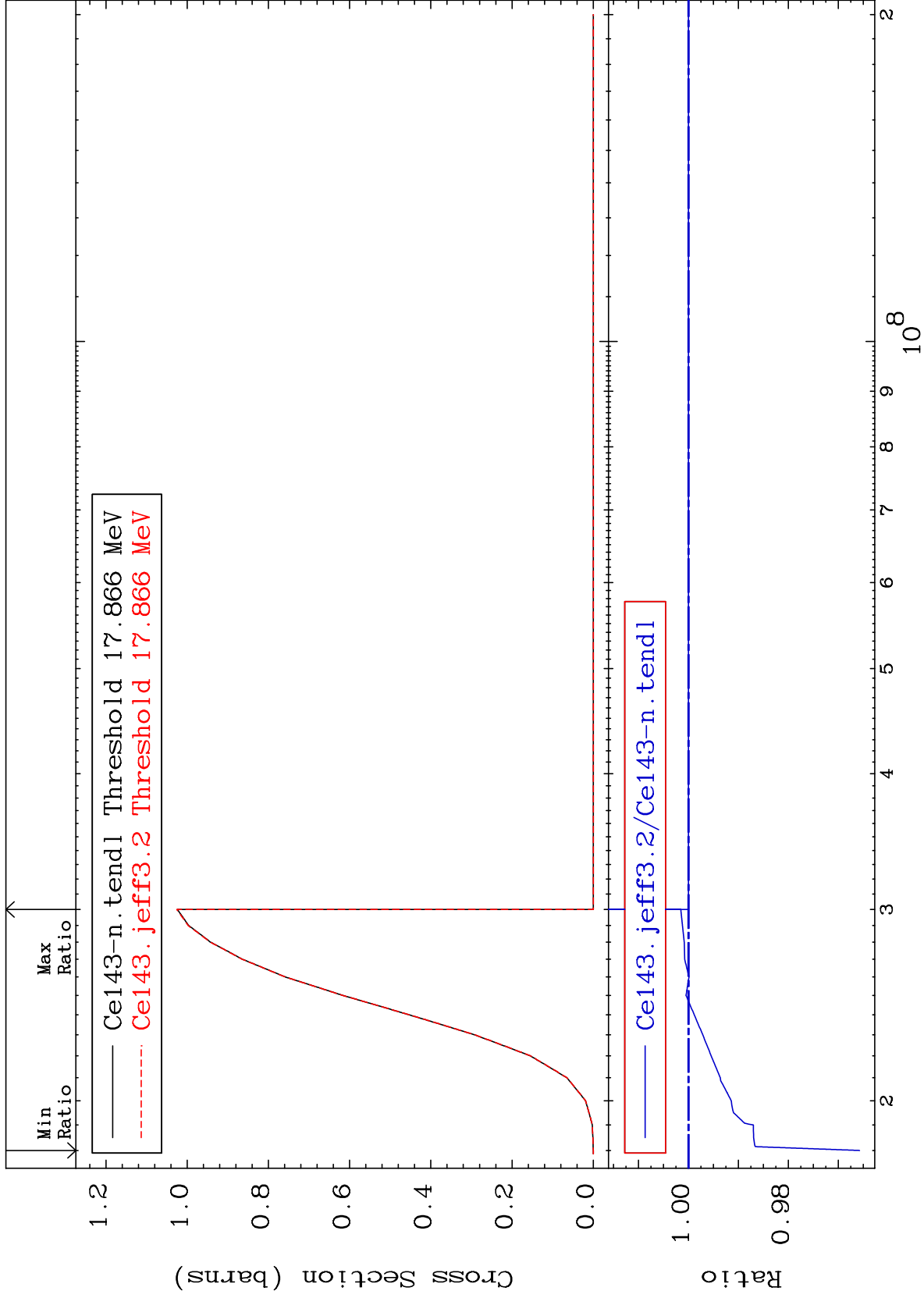
14

Incident Energy (eV)

58-Ce-143

Cross Section

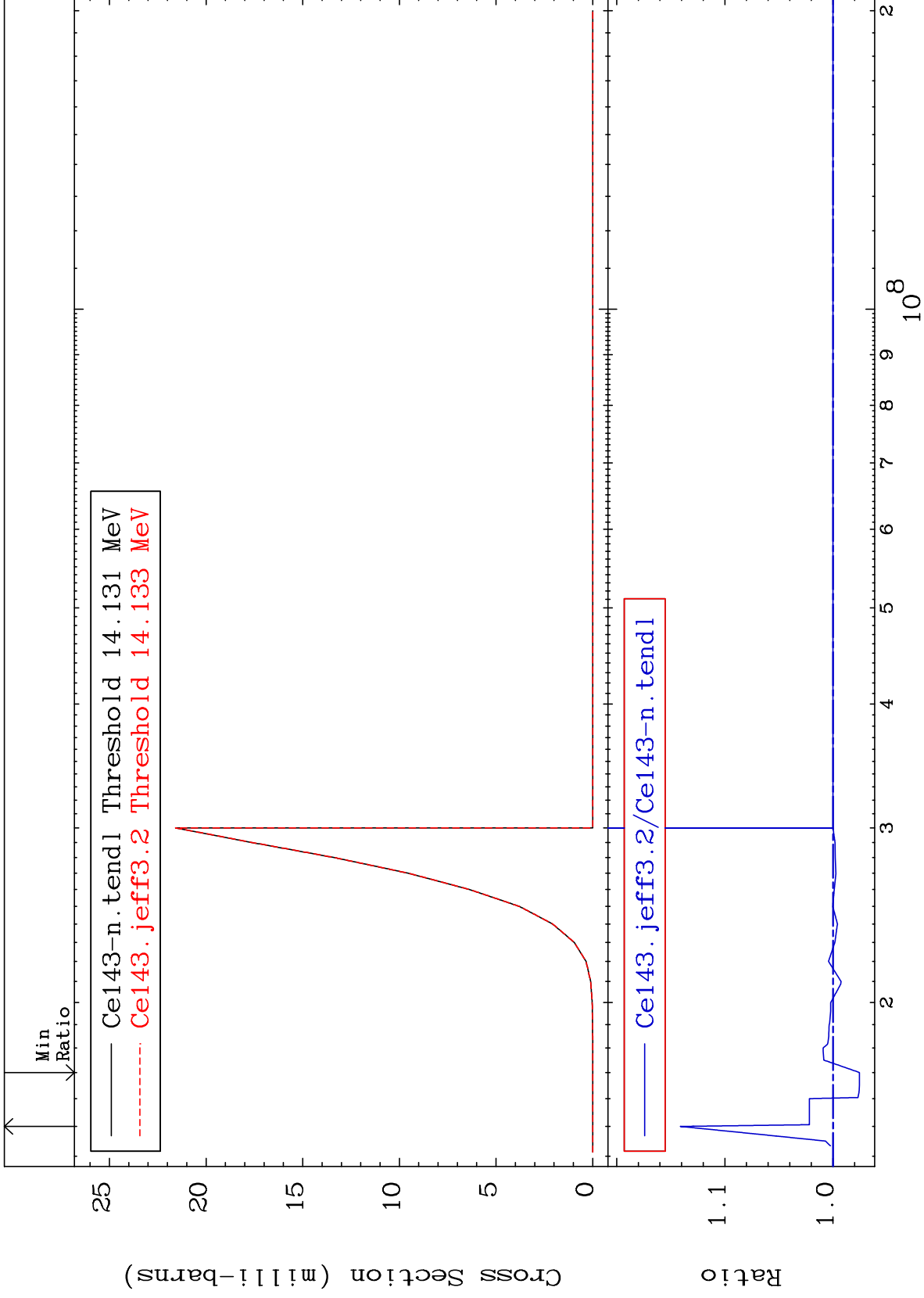
-3.423 To 0.155 %



MAT 5846

(n,2n) p
Cross Section

58-Ce-143
-2.448 To 14.11 %



16

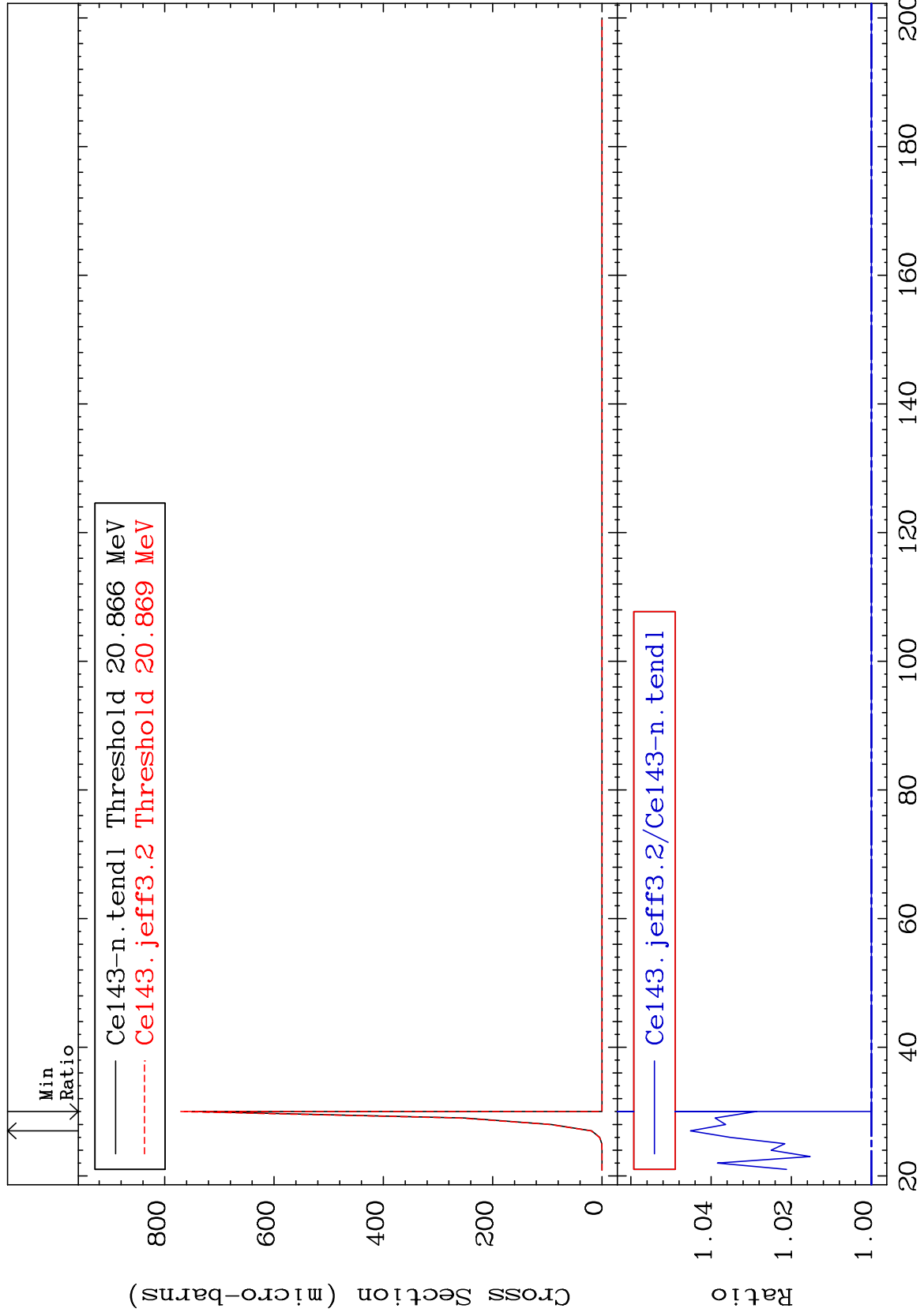
Incident Energy (eV)

58-Ce-143

MAT 5846

(n,3n) p
Cross Section

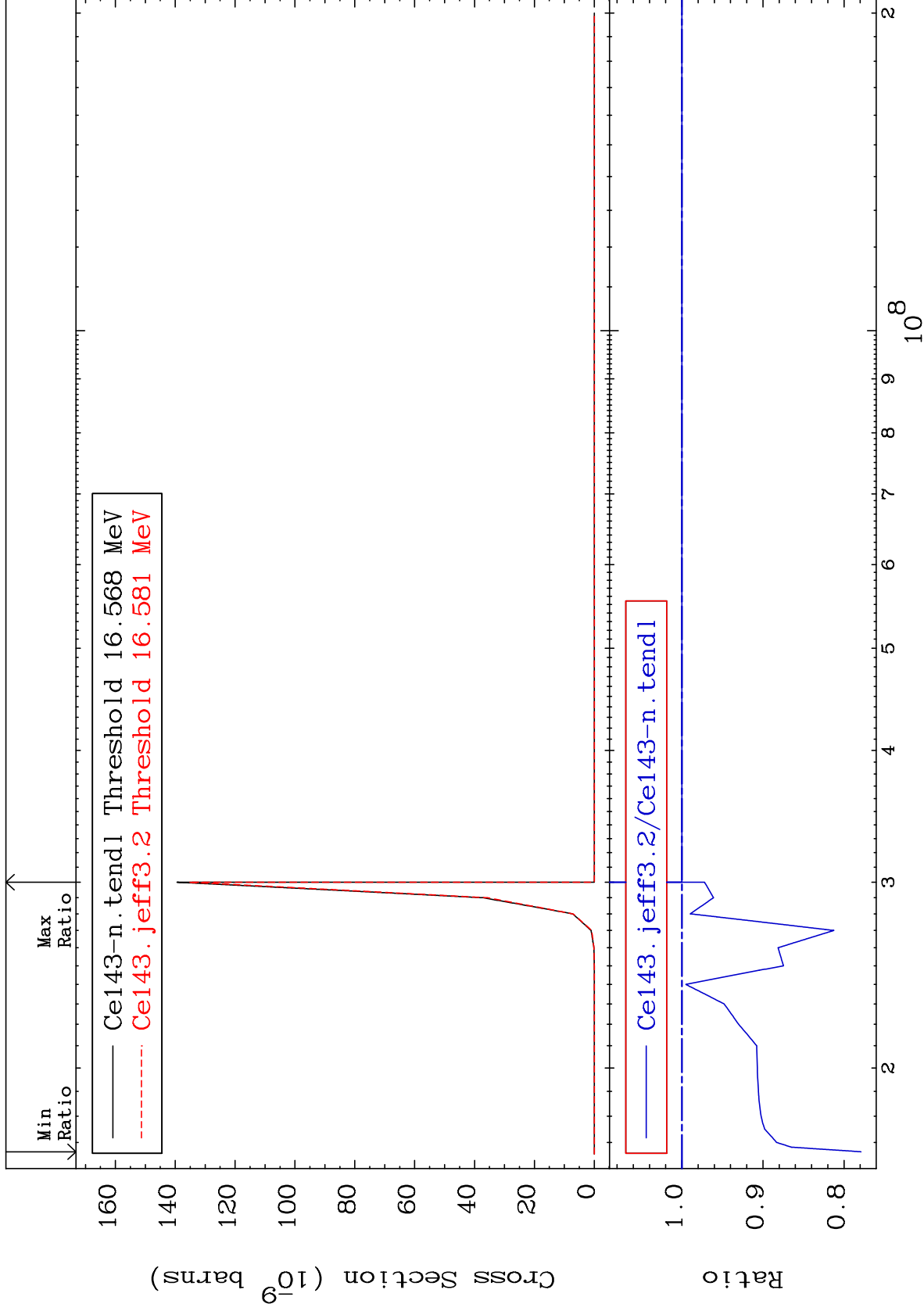
58-Ce-143
To 4.514 %
0.000



MAT 5846

(n,2n) p
Cross Section

58-Ce-143
-22.10 To 0.000 %



18

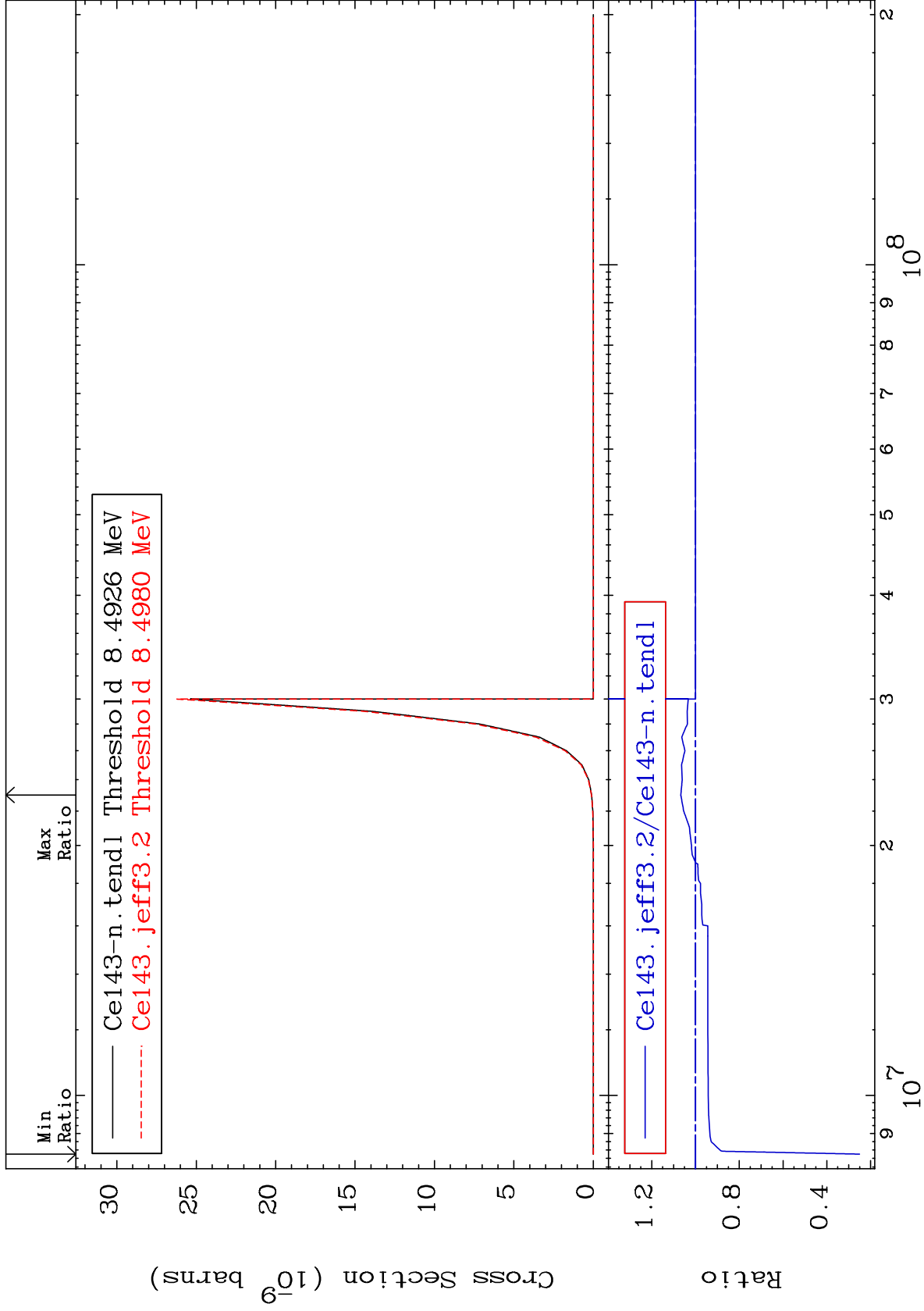
Incident Energy (eV)

58-Ce-143

MAT 5846

(n,n') p α
Cross Section

58-Ce-143
-74.94 To 6.735 %



19

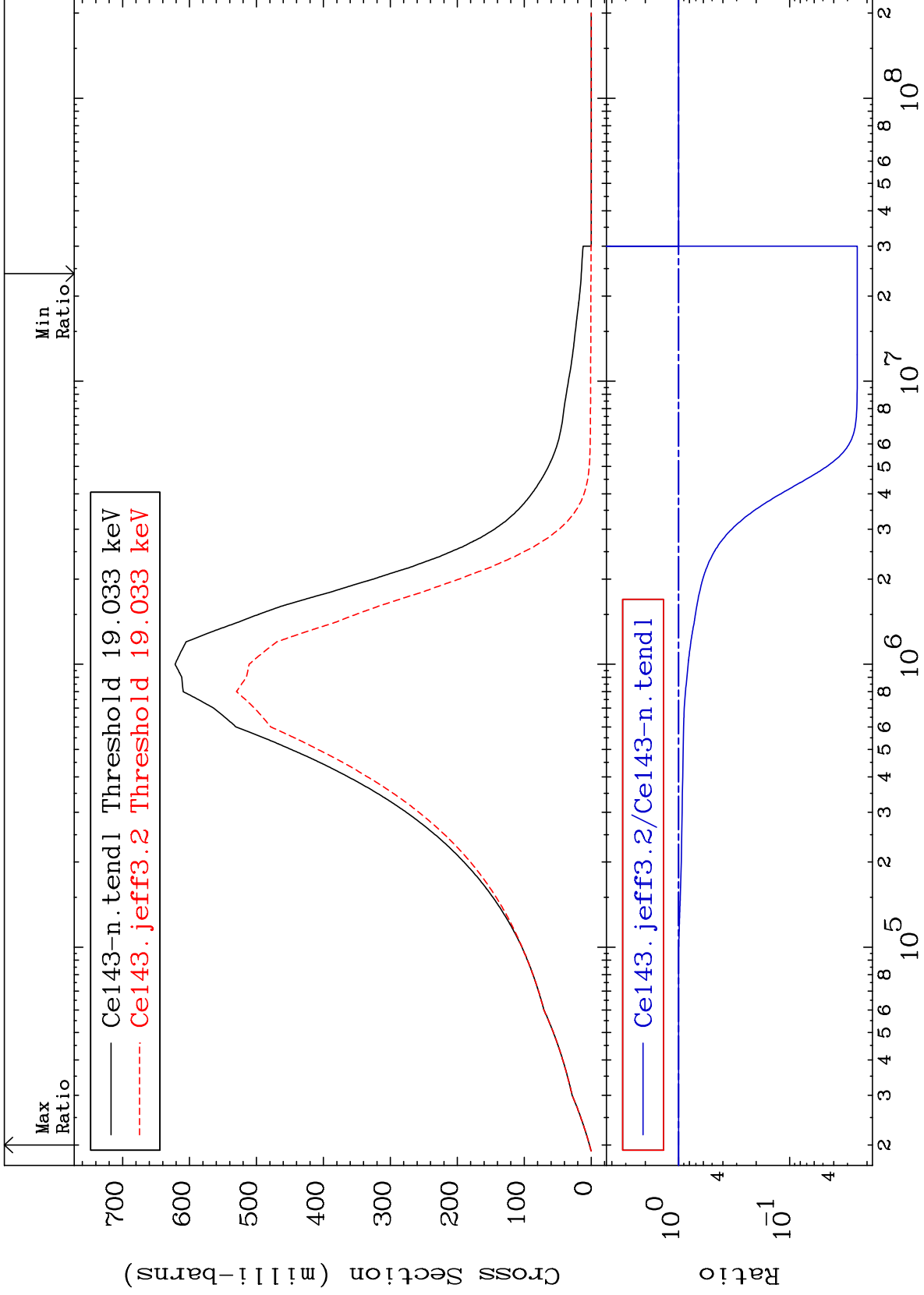
Incident Energy (eV)

58-Ce-143

MAT 5846

18.90 keV (n,n') Level
Cross Section

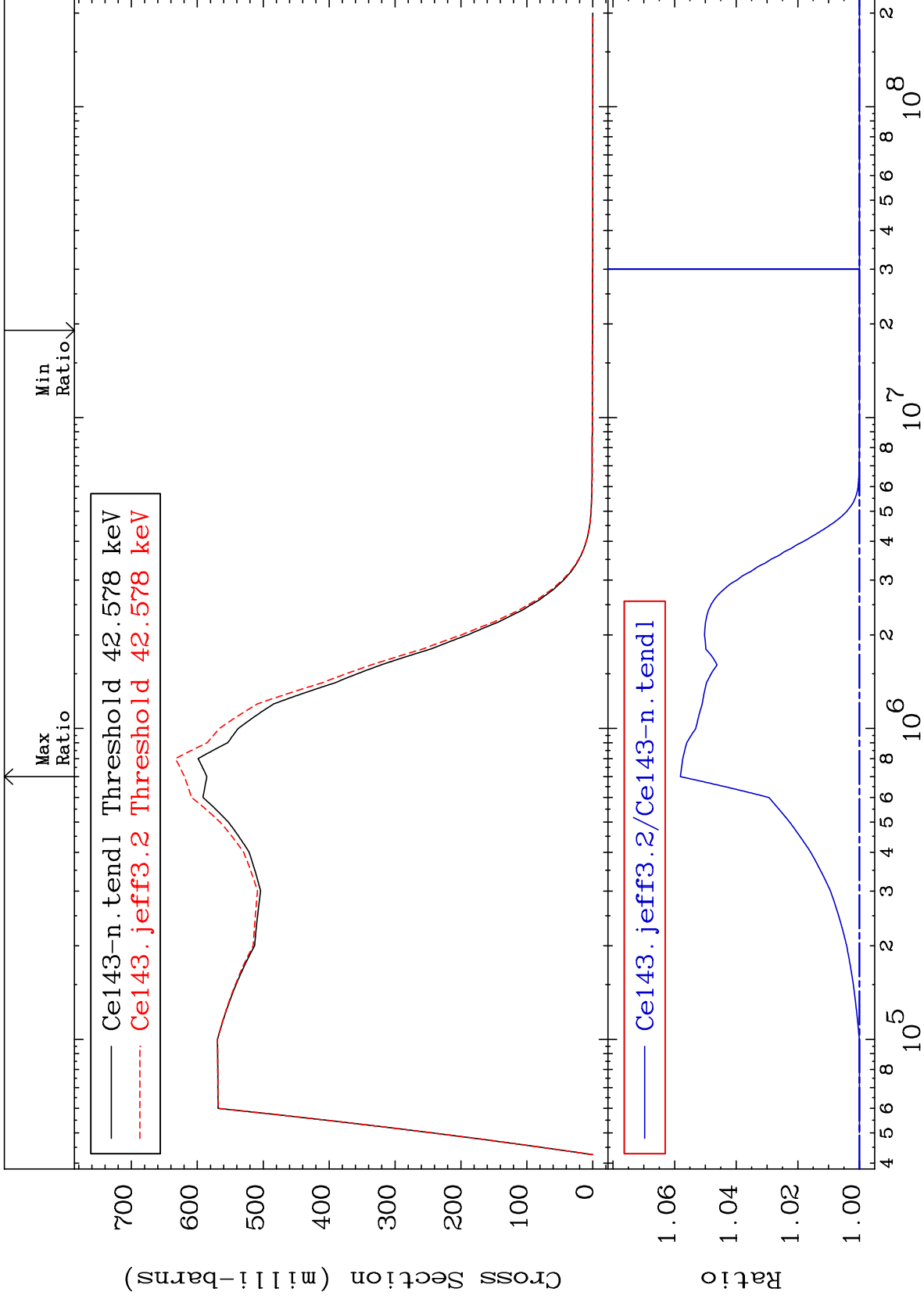
58-Ce-143
-97.55 To 0.078 %



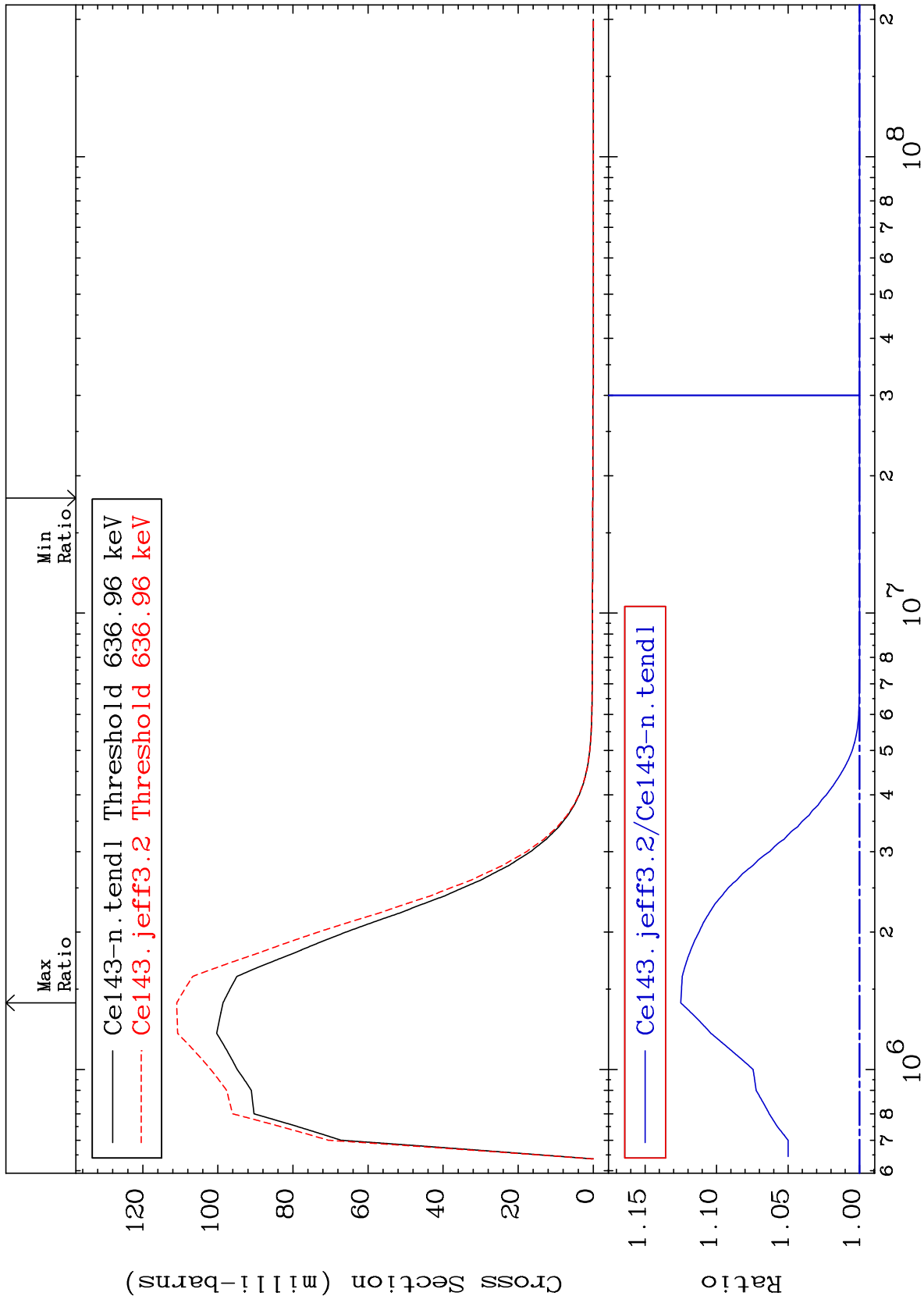
MAT 5846

42.28 keV (n,n') Level
Cross Section

58-Ce-143
0.000 To 5.813 %



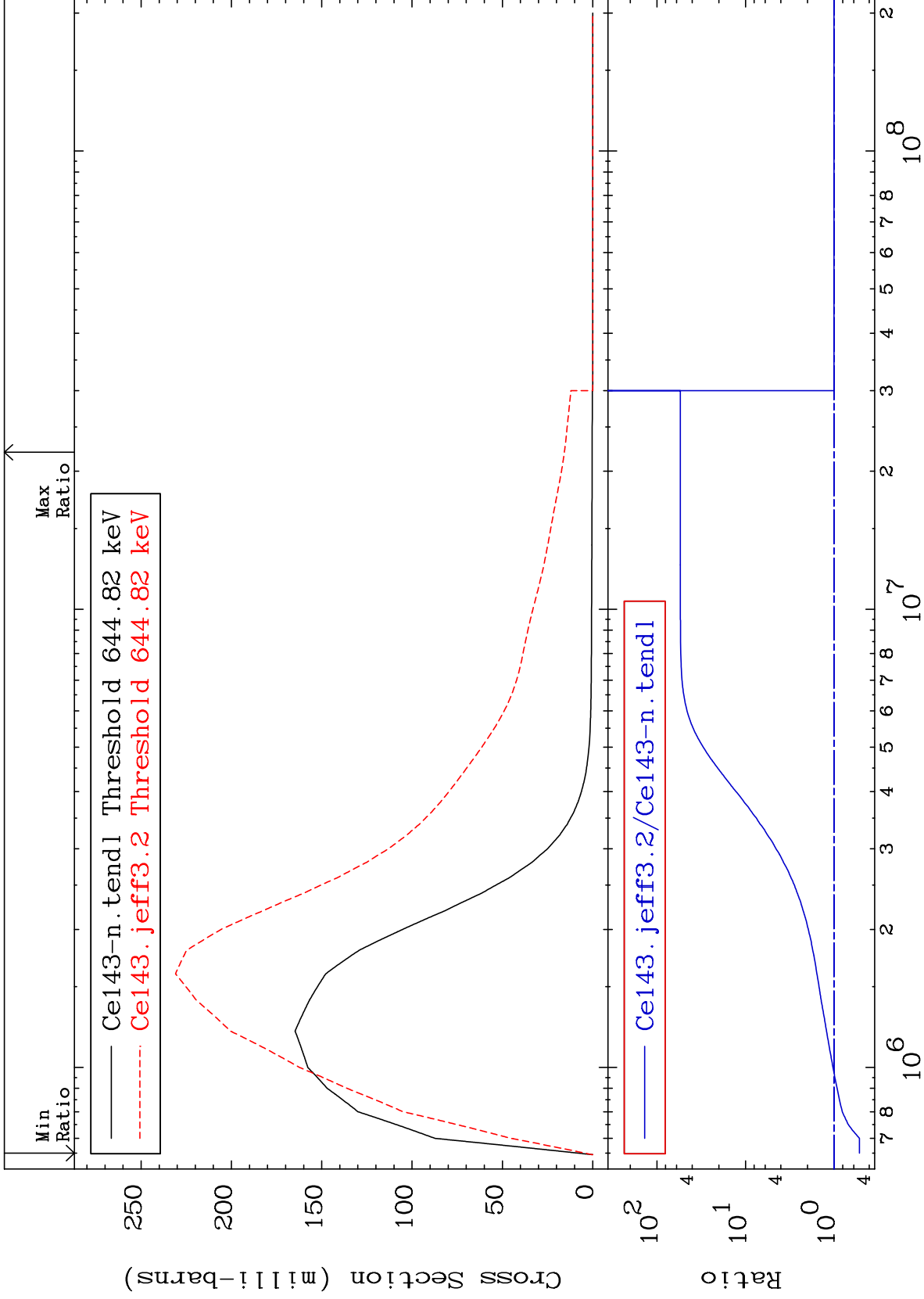
MAT 5846 632.5 keV (n,n') Level 58-Ce-143
 Cross Section To 12.50 %



MAT 5846

640.3 keV (n,n') Level
Cross Section

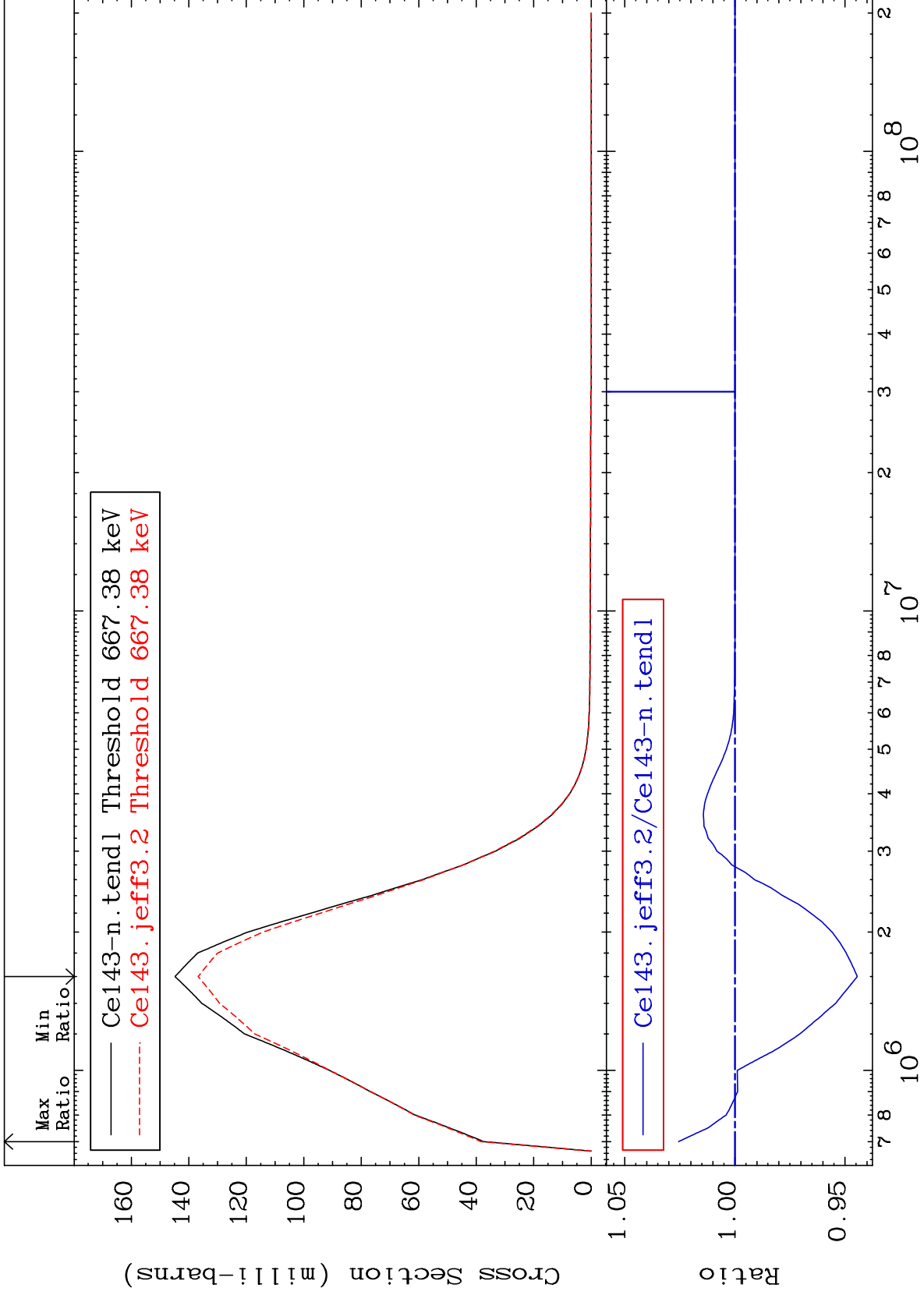
58-Ce-143
-48.27 To 5340. %



MAT 5846

662.7 keV (n,n') Level
Cross Section

58-Ce-143
-5.557 To 2.555 %

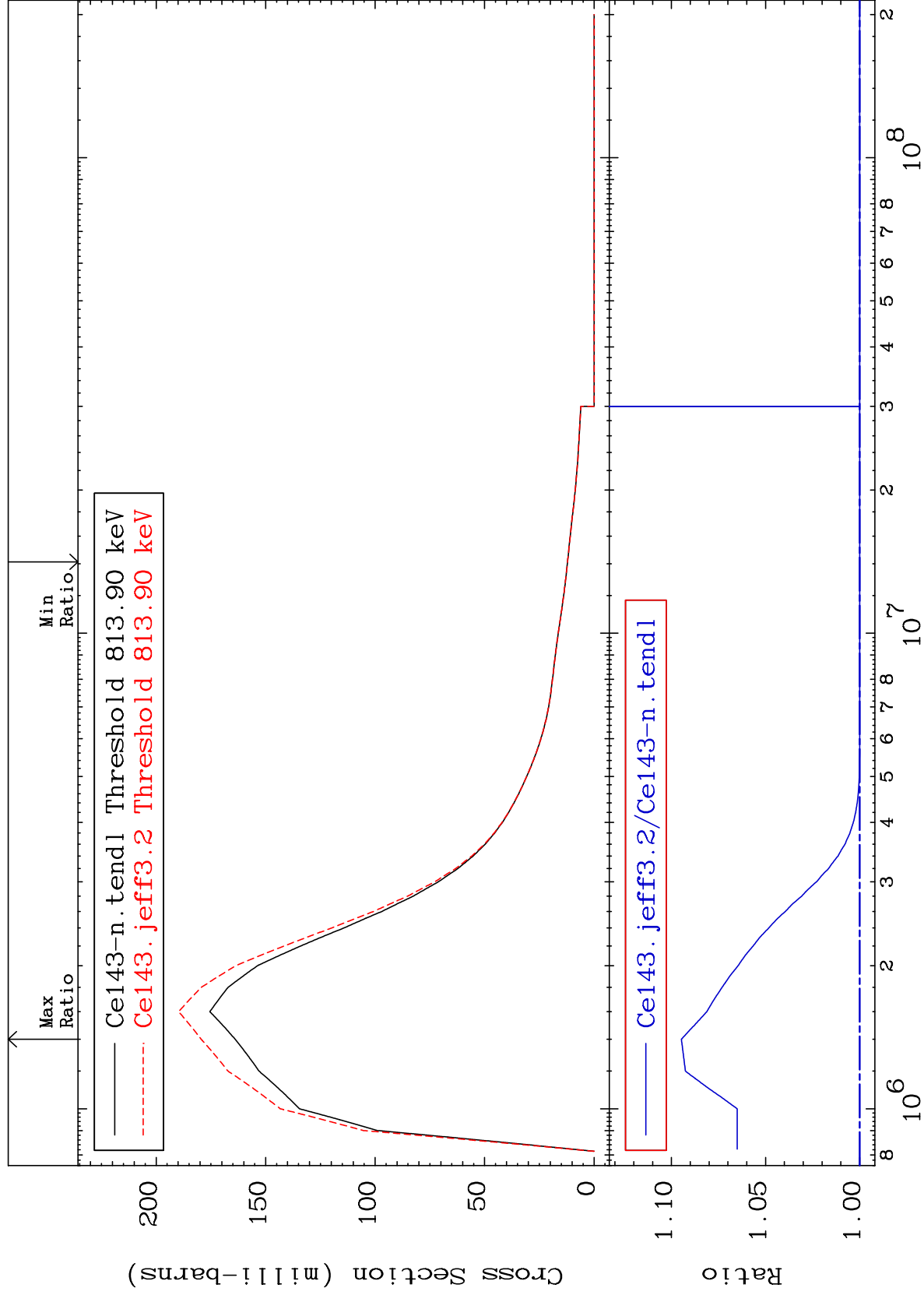


MAT 5846

808.2 keV (n,n') Level

58-Ce-143

0.000 To 9.470 %



25

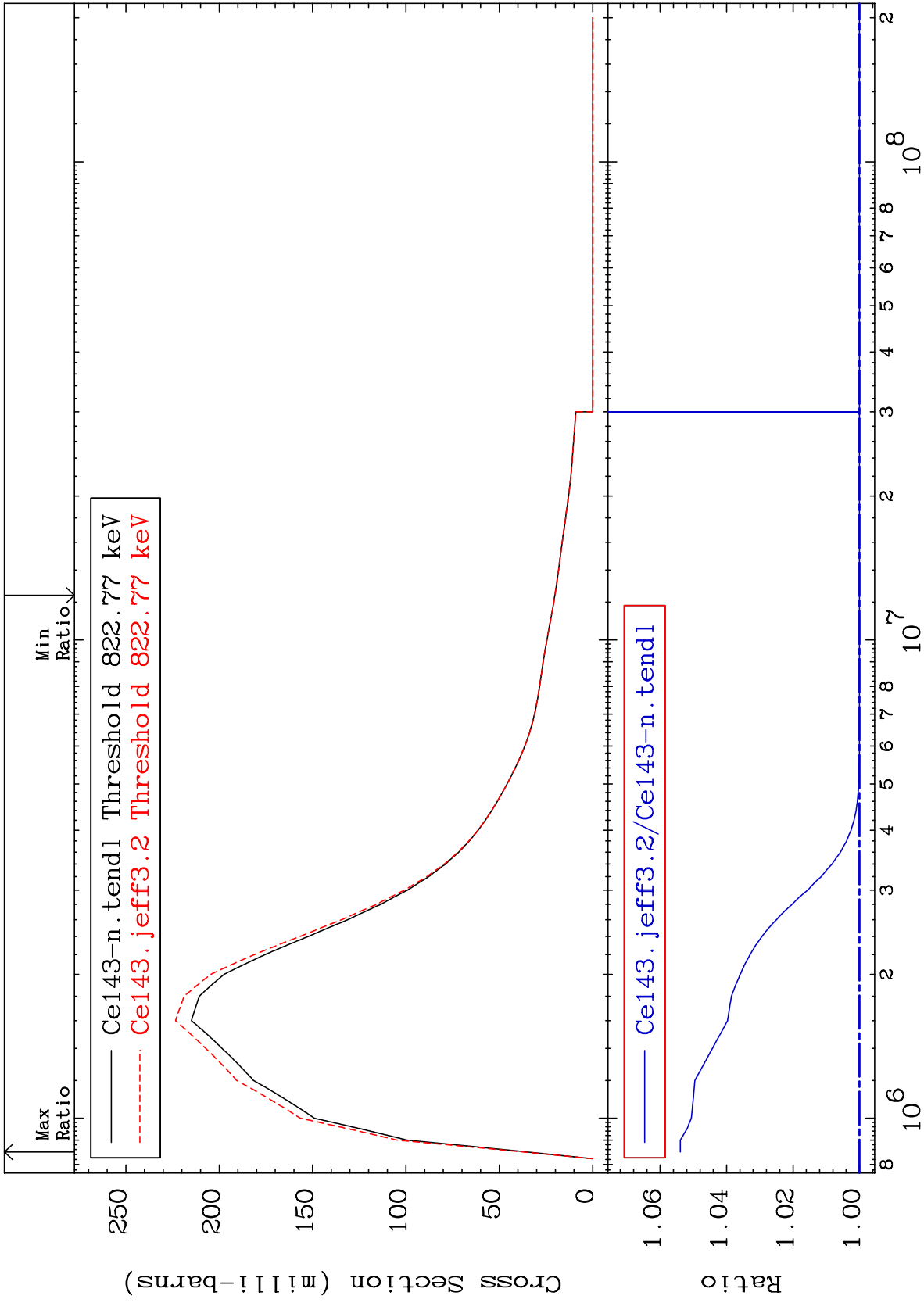
Incident Energy (eV)

58-Ce-143

MAT 5846

817.0 keV (n,n') Level
Cross Section

58-Ce-143
To 5.393 %



26

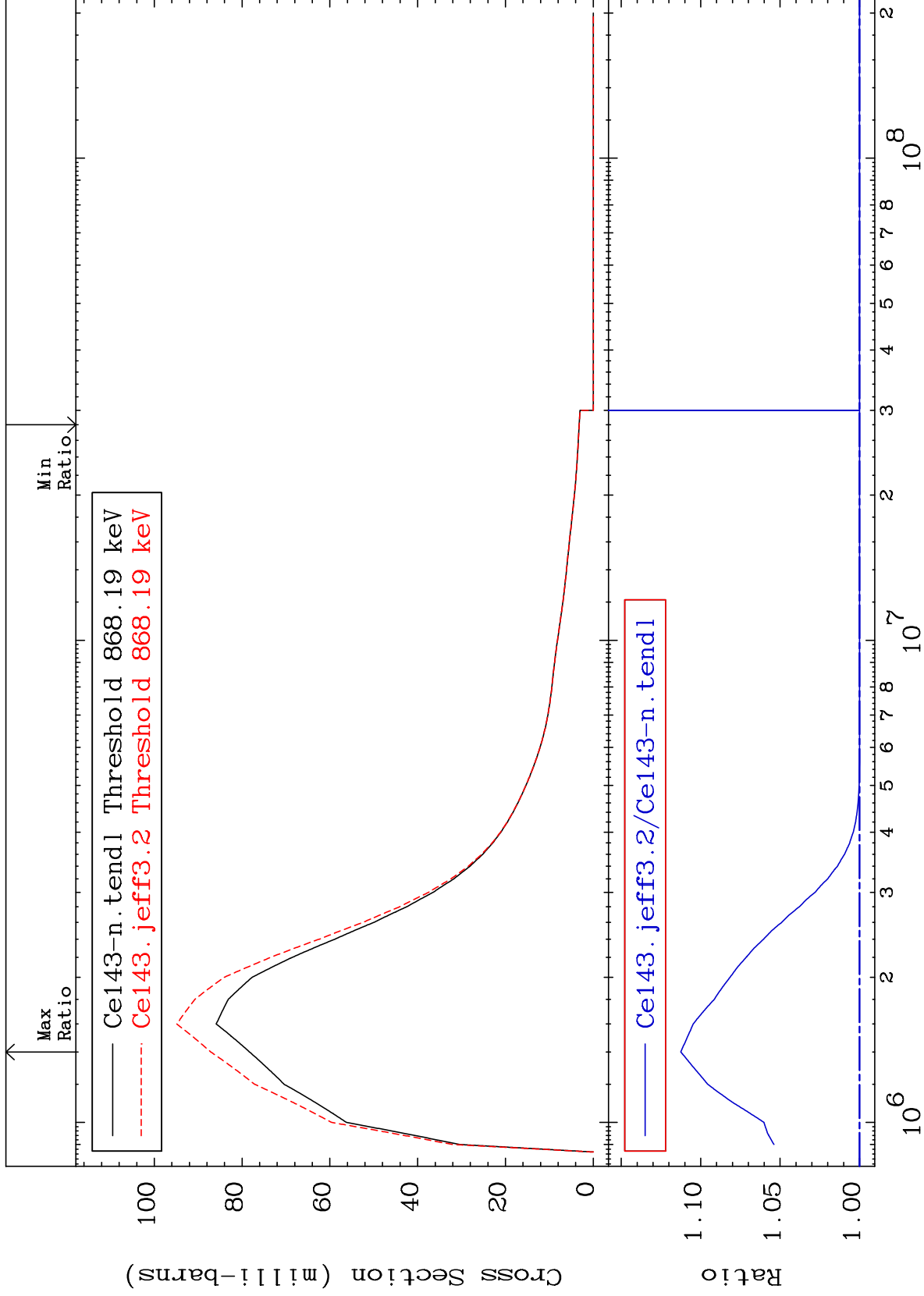
Incident Energy (eV)

58-Ce-143

MAT 5846

862.1 keV (n,n') Level
Cross Section

58-Ce-143
To 11.25 %



27

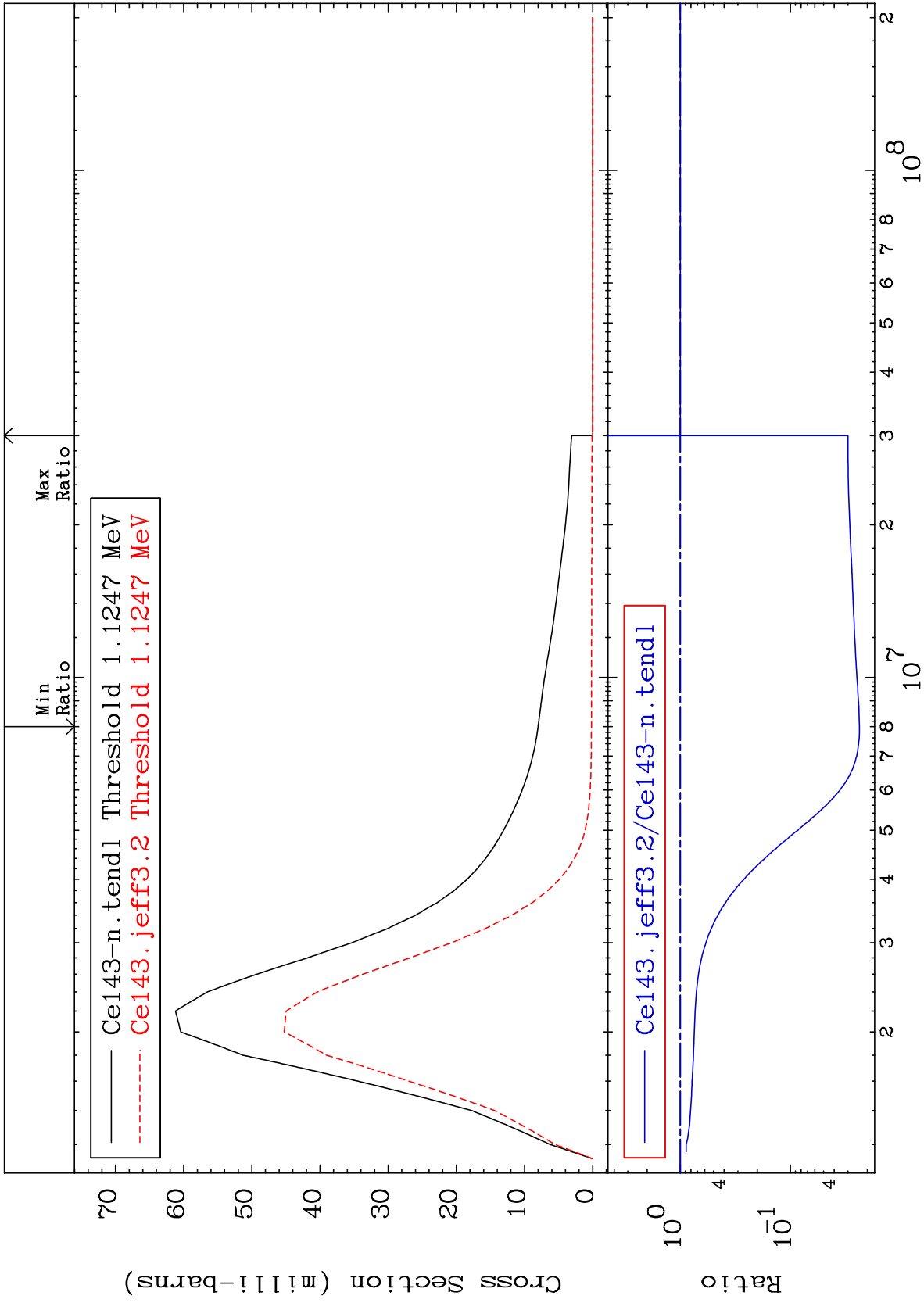
Incident Energy (eV)

58-Ce-143

MAT 5846

1.117 MeV (n,n') Level
Cross Section

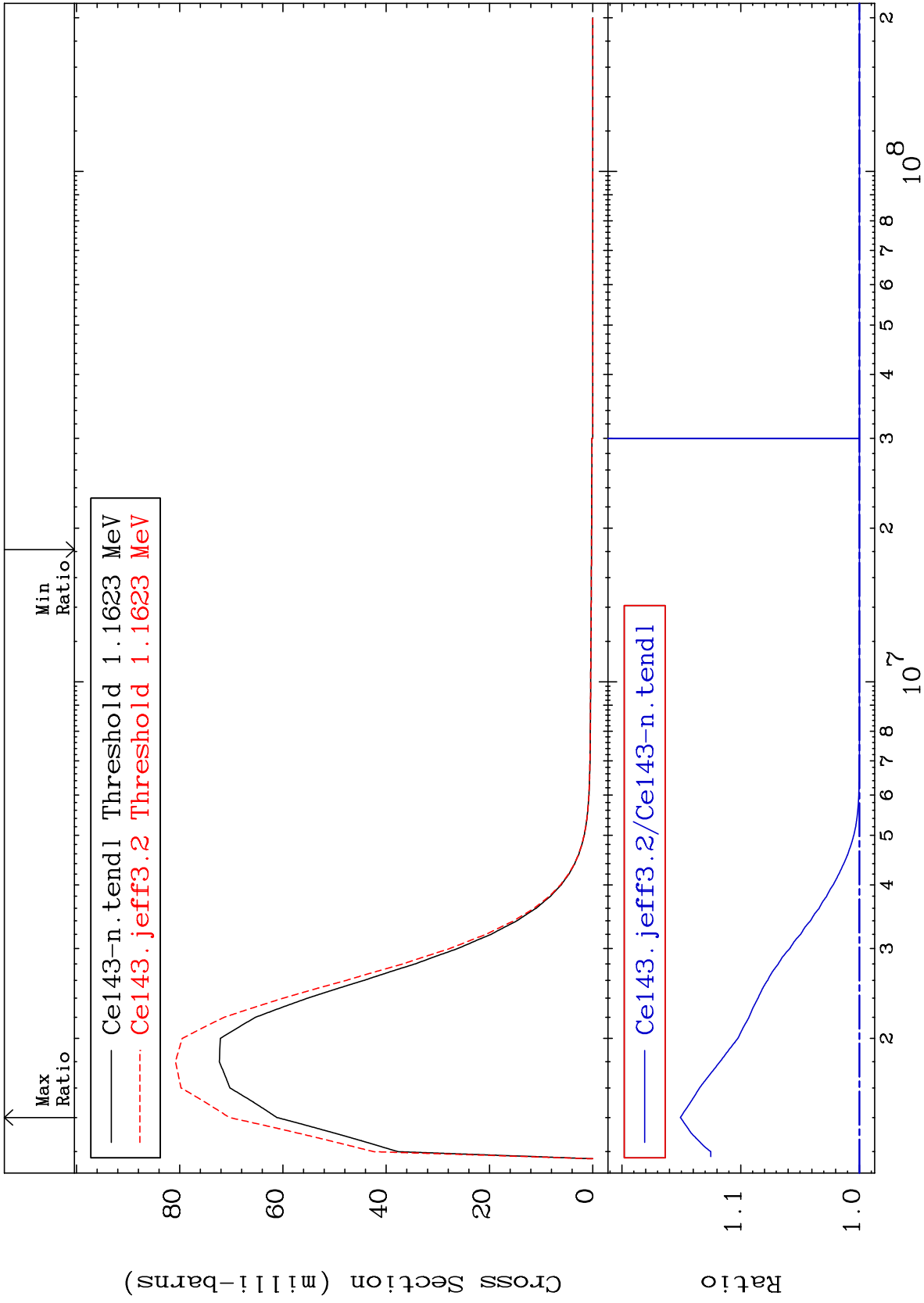
58-Ce-143
-97.64 To 0.000 %



MAT 5846

1.154 MeV (n,n') Level
Cross Section

58-Ce-143
To 15.08 %



30

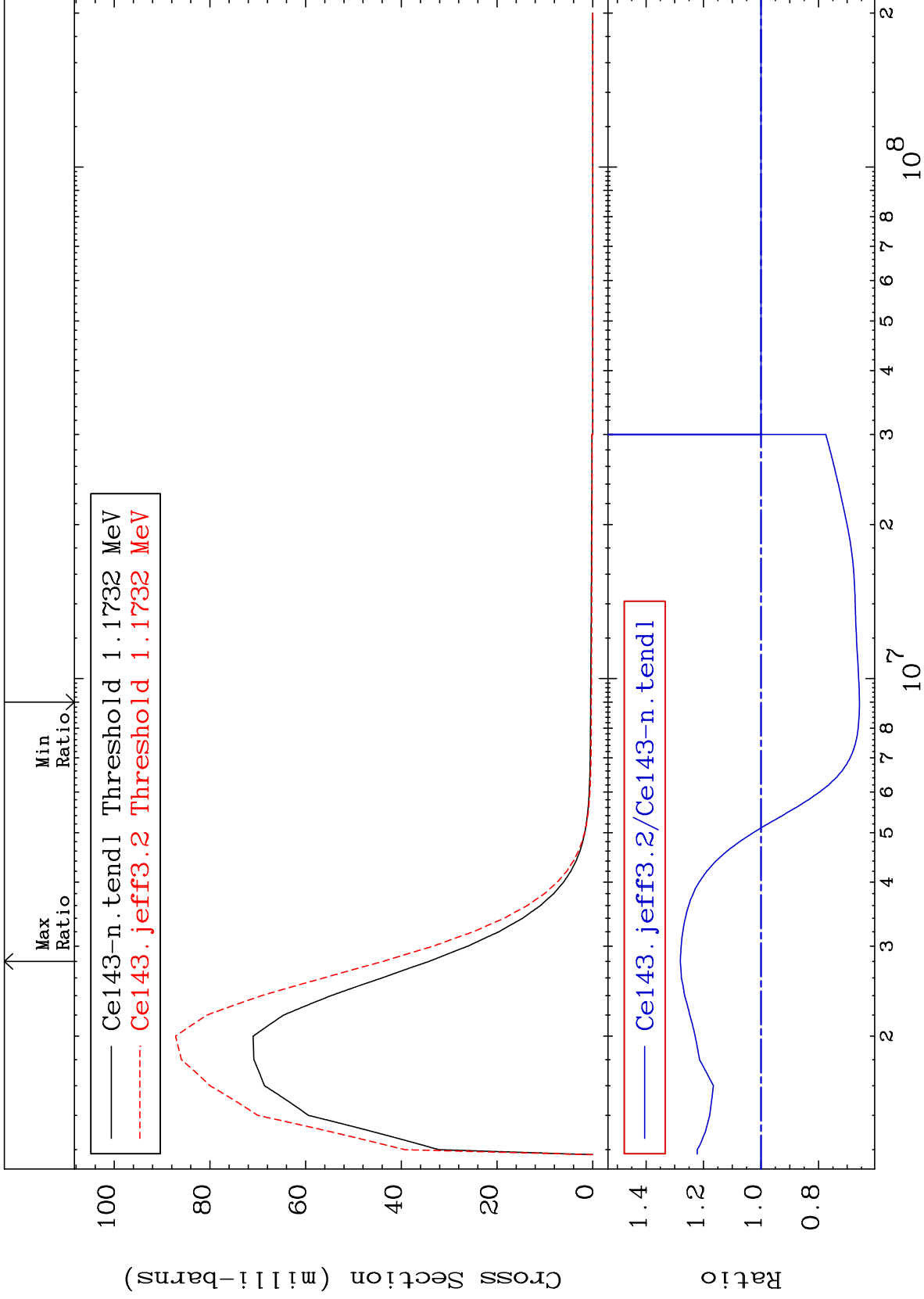
Incident Energy (eV)

58-Ce-143

MAT 5846

1.165 MeV (n,n') Level
Cross Section

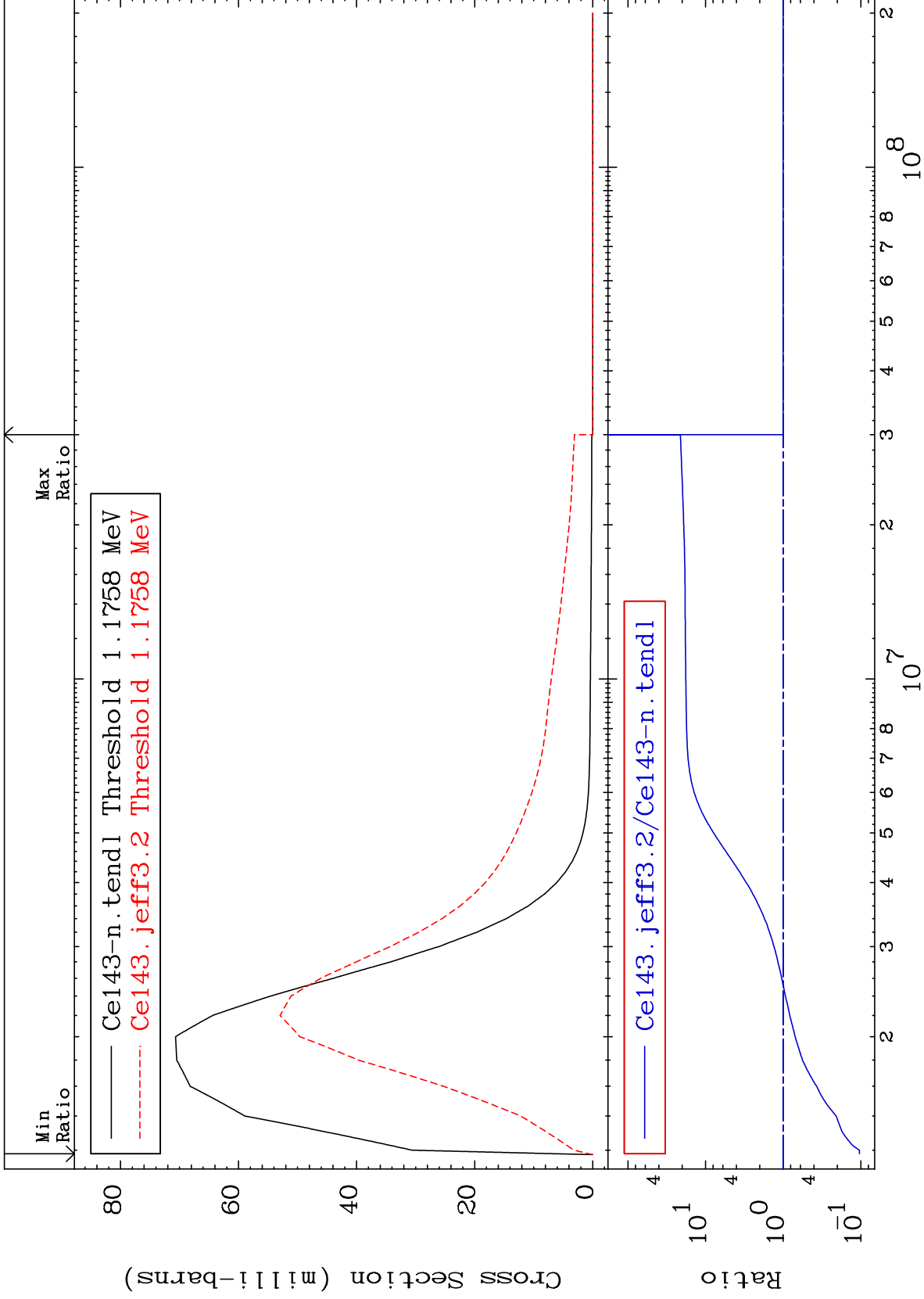
58-Ce-143
-34.25 To 28.05 %



MAT 5846

1.168 MeV (n,n') Level
Cross Section

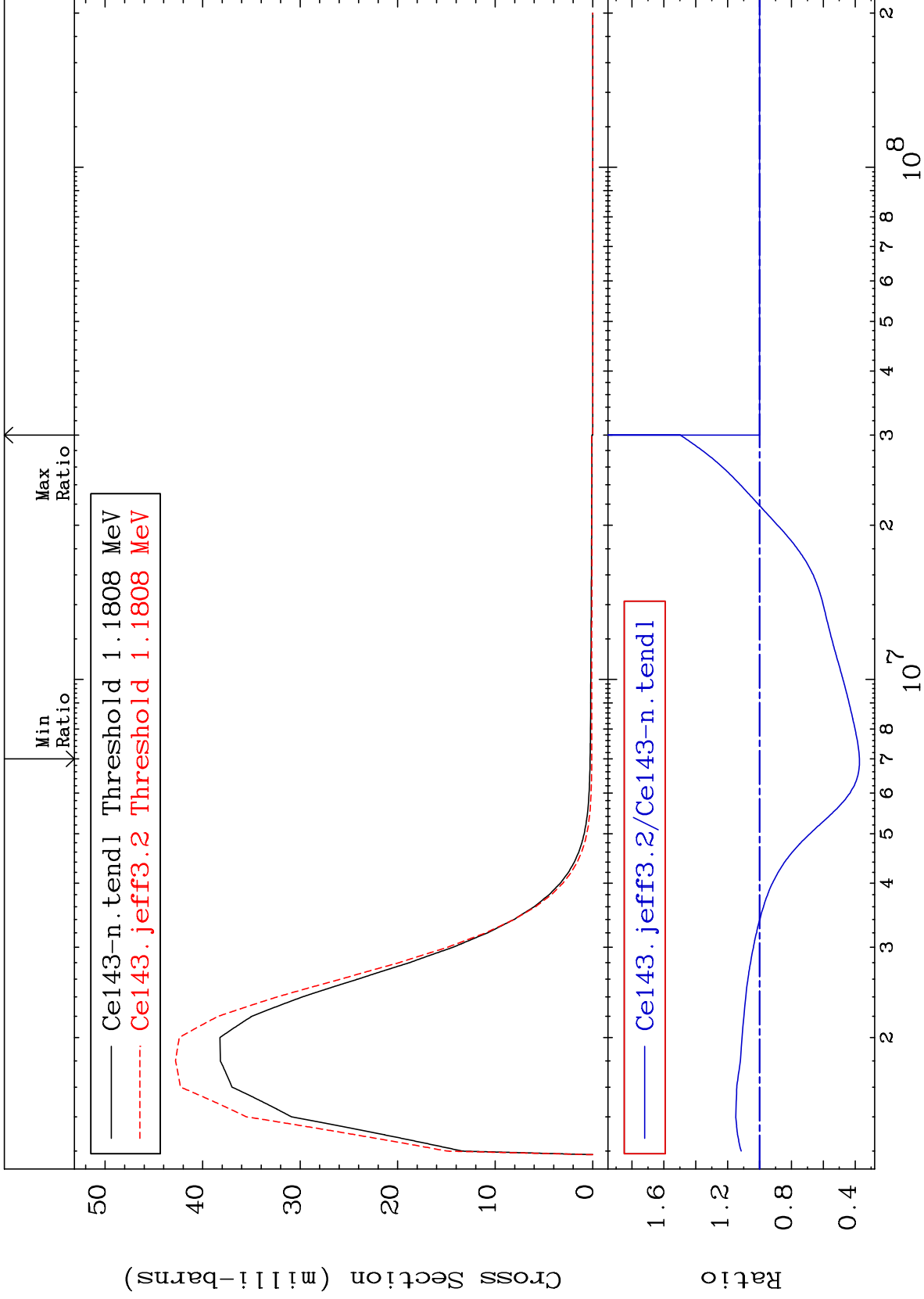
58-Ce-143
-89.59 To 2013. %



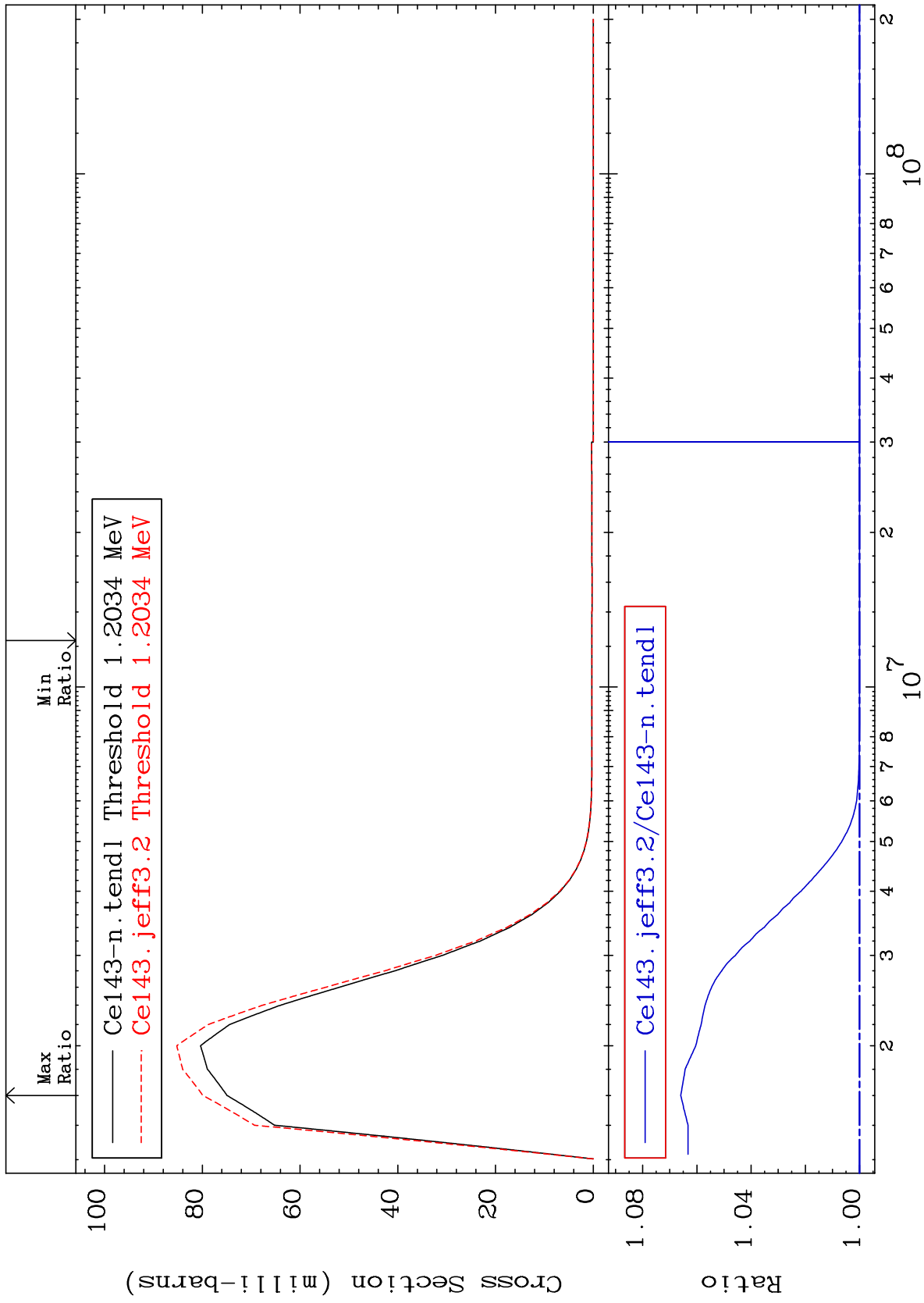
MAT 5846

1.172 MeV (n,n') Level
Cross Section

58-Ce-143
-62.62 To 49.67 %



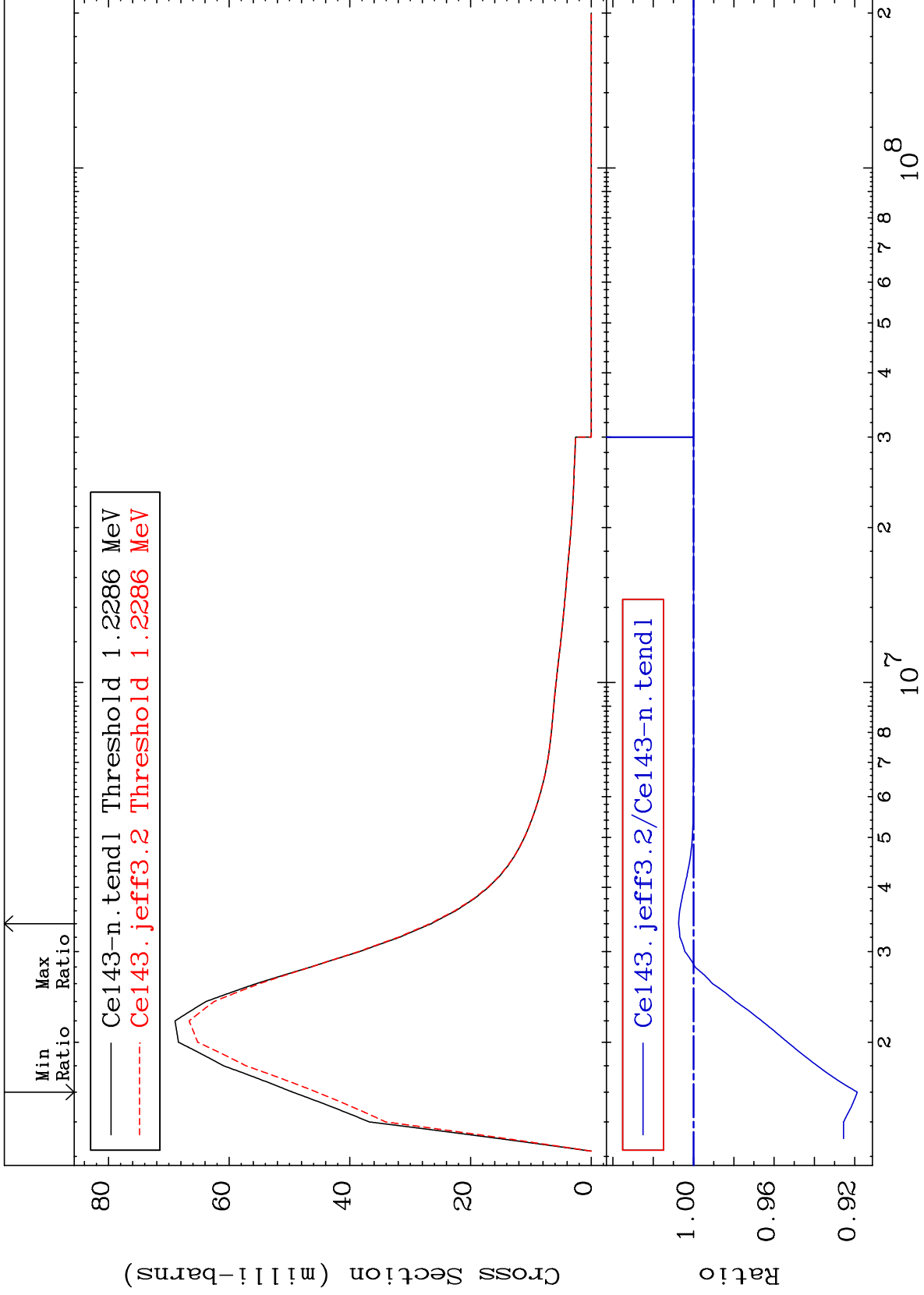
MAT 5846 1.195 MeV (n,n') Level 58-Ce-143
 Cross Section To 6.594 %



MAT 5846

1.220 MeV (n,n') Level
Cross Section

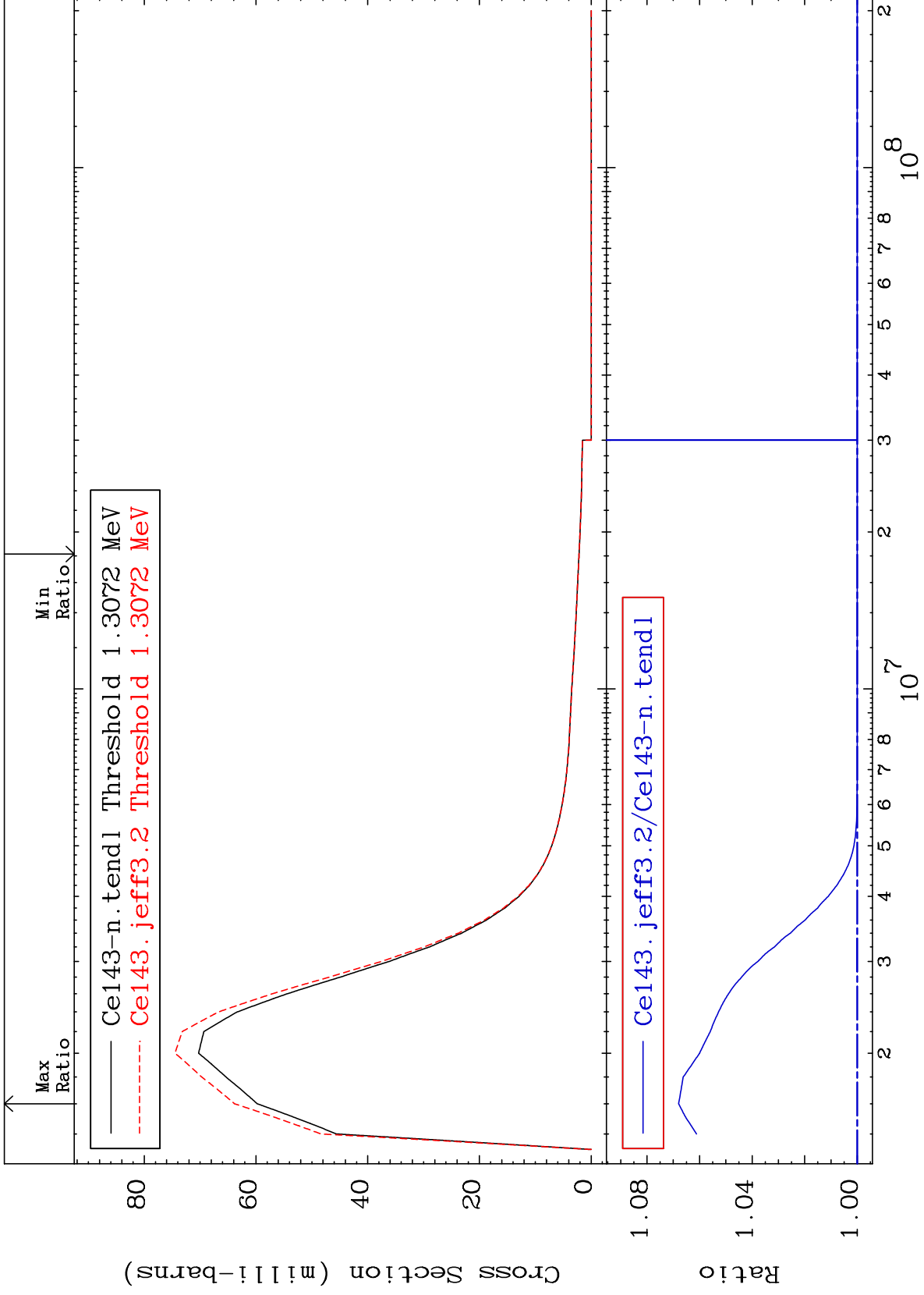
58-Ce-143
-8.122 To 0.736 %



MAT 5846

1.298 MeV (n,n') Level
Cross Section

58-Ce-143
0.000 To 6.796 %

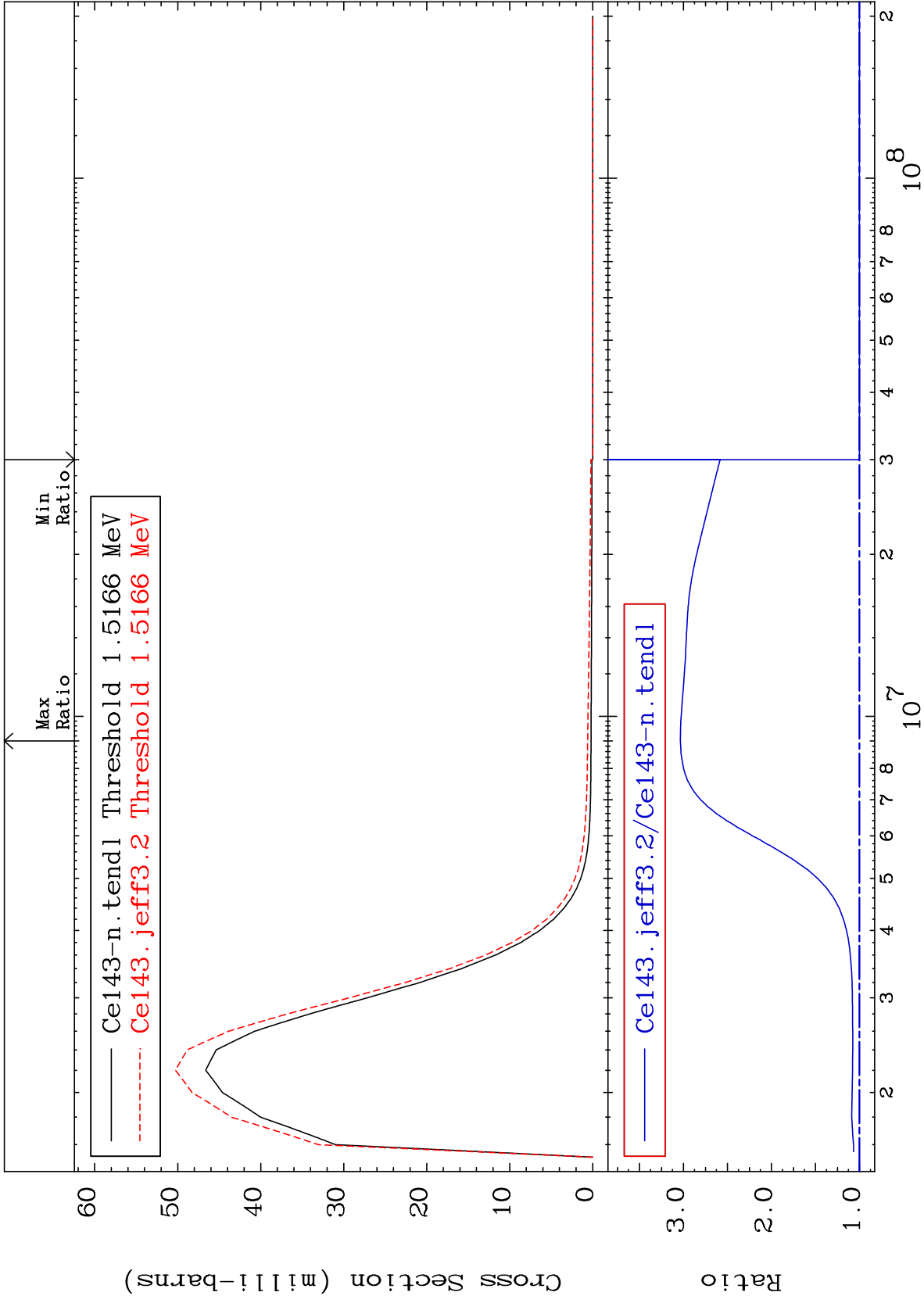


MAT 5846

1.506 MeV (n,n') Level

58-Ce-143

0.000 To 203.5 %



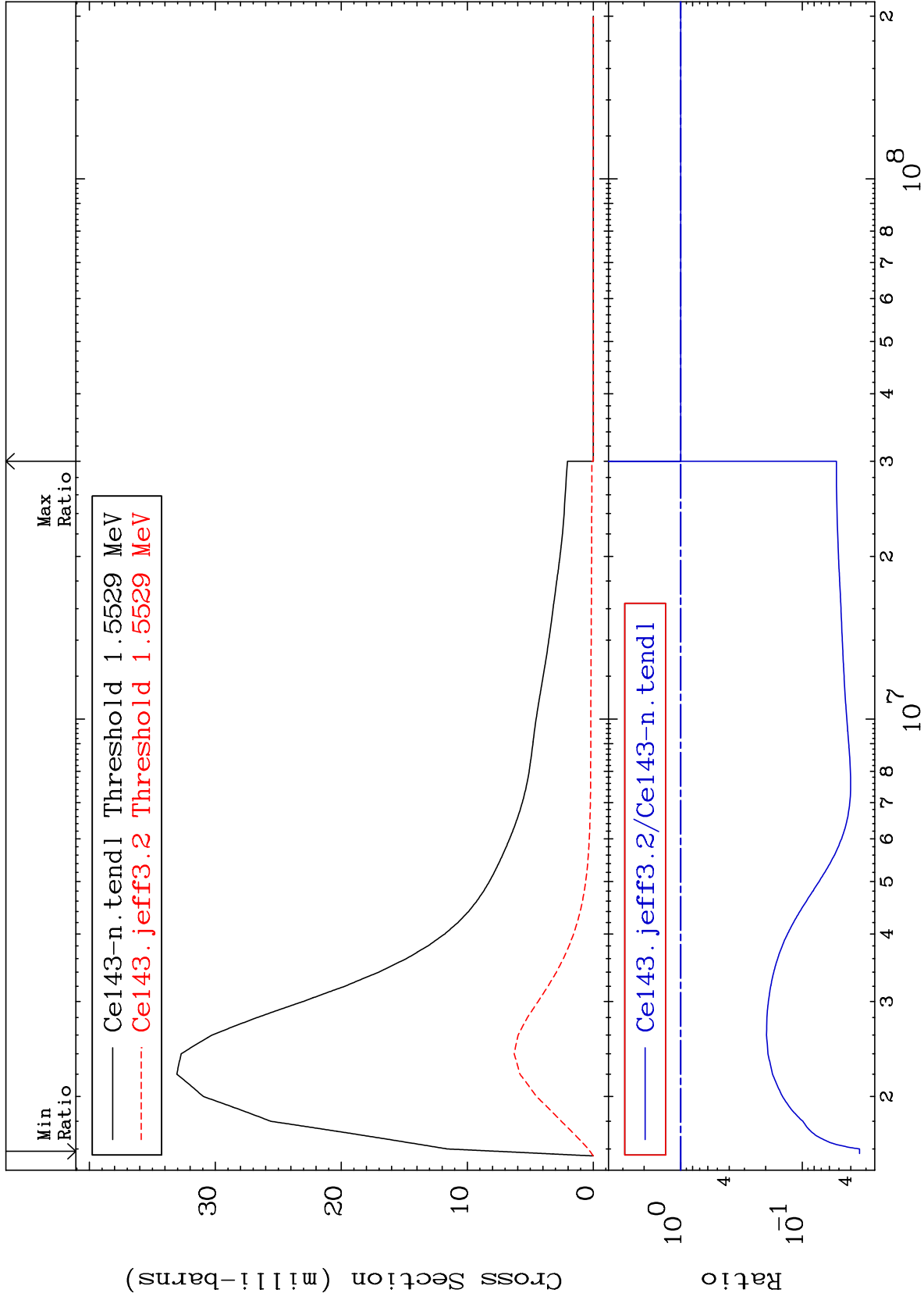
MAT 5846

1.542 MeV (n,n') Level

58-Ce-143

-96.61 To 0.000 %

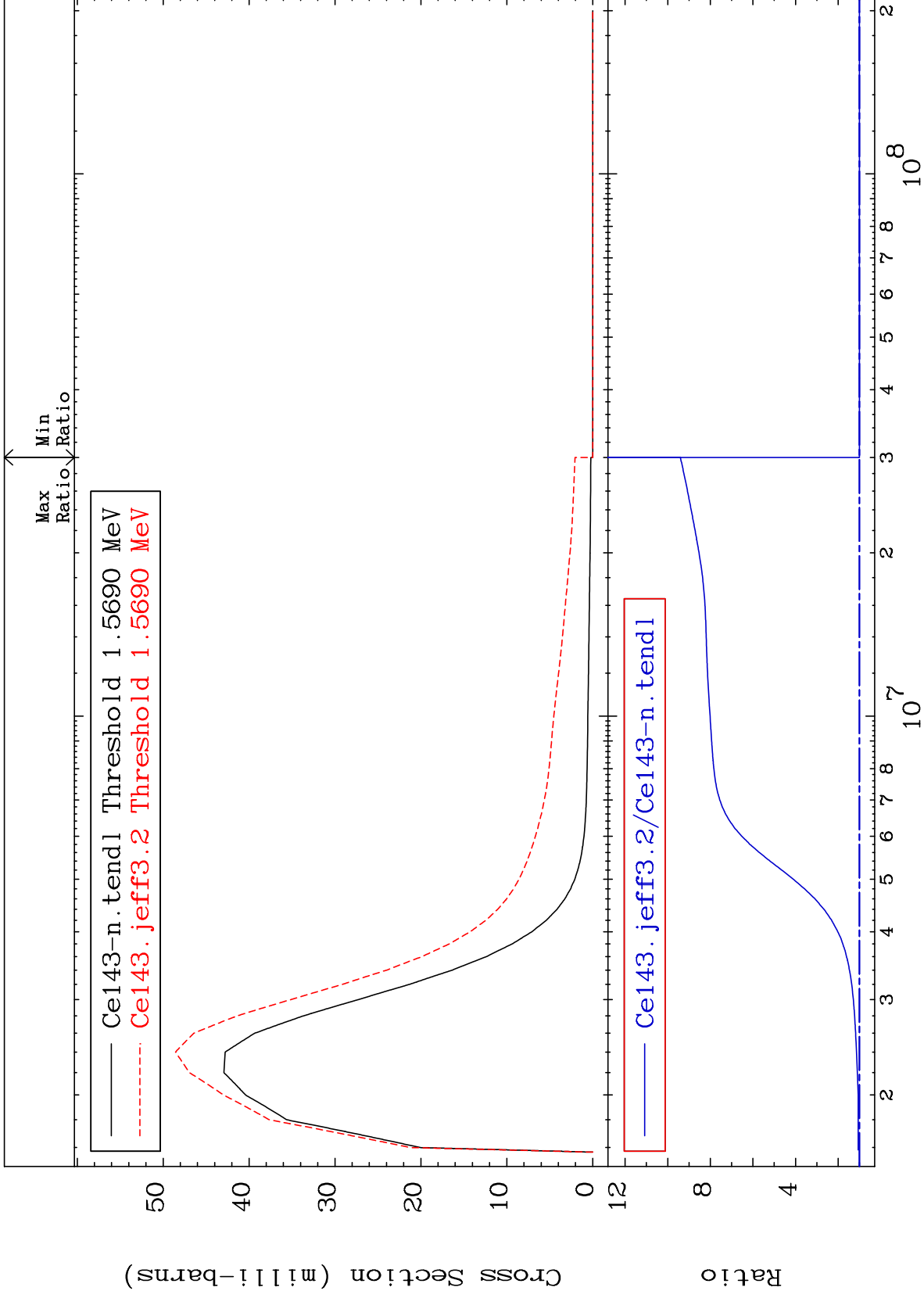
Cross Section



MAT 5846

1.558 MeV (n,n') Level
Cross Section

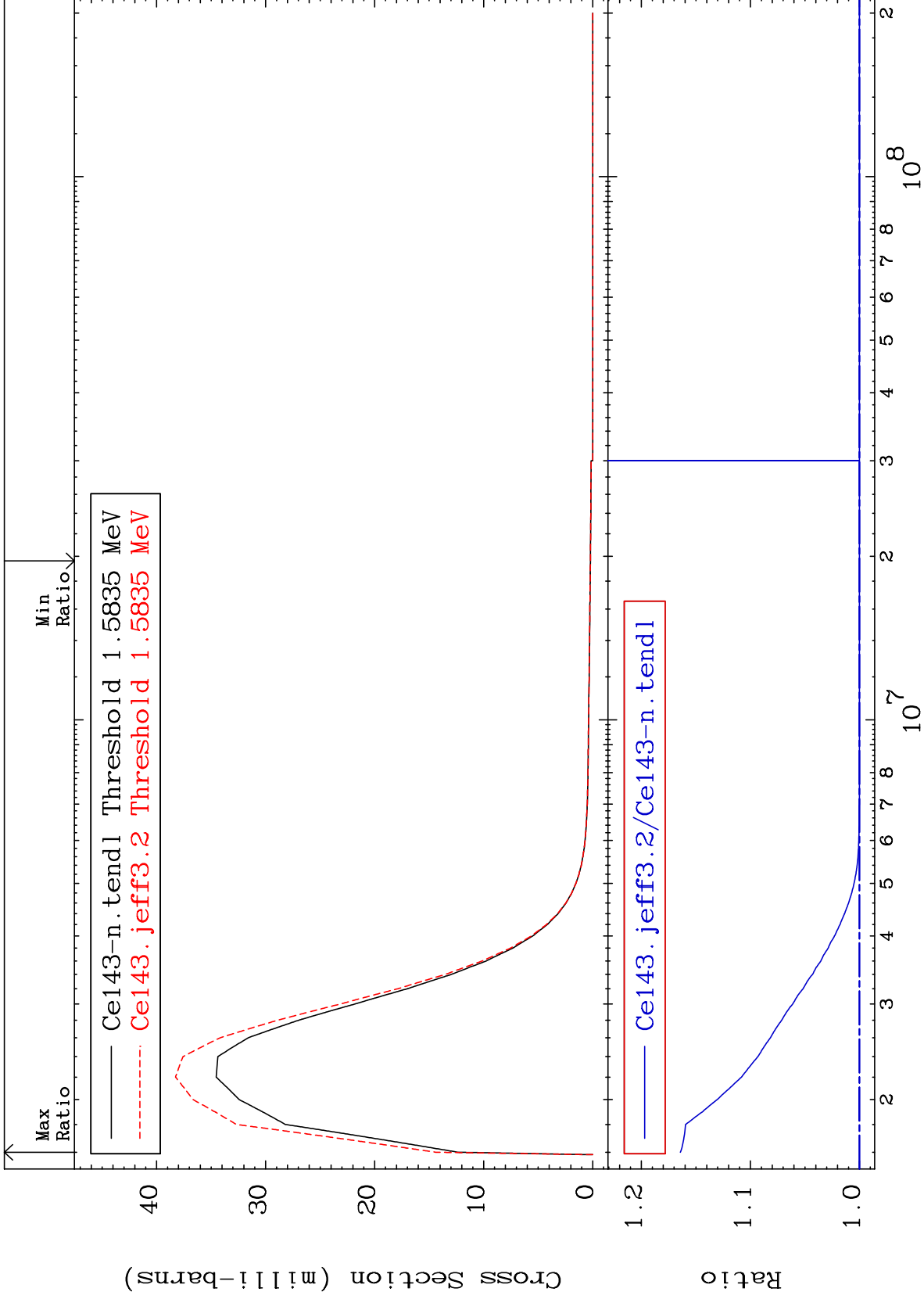
58-Ce-143
To 840.6 %



MAT 5846

1.572 MeV (n,n') Level
Cross Section

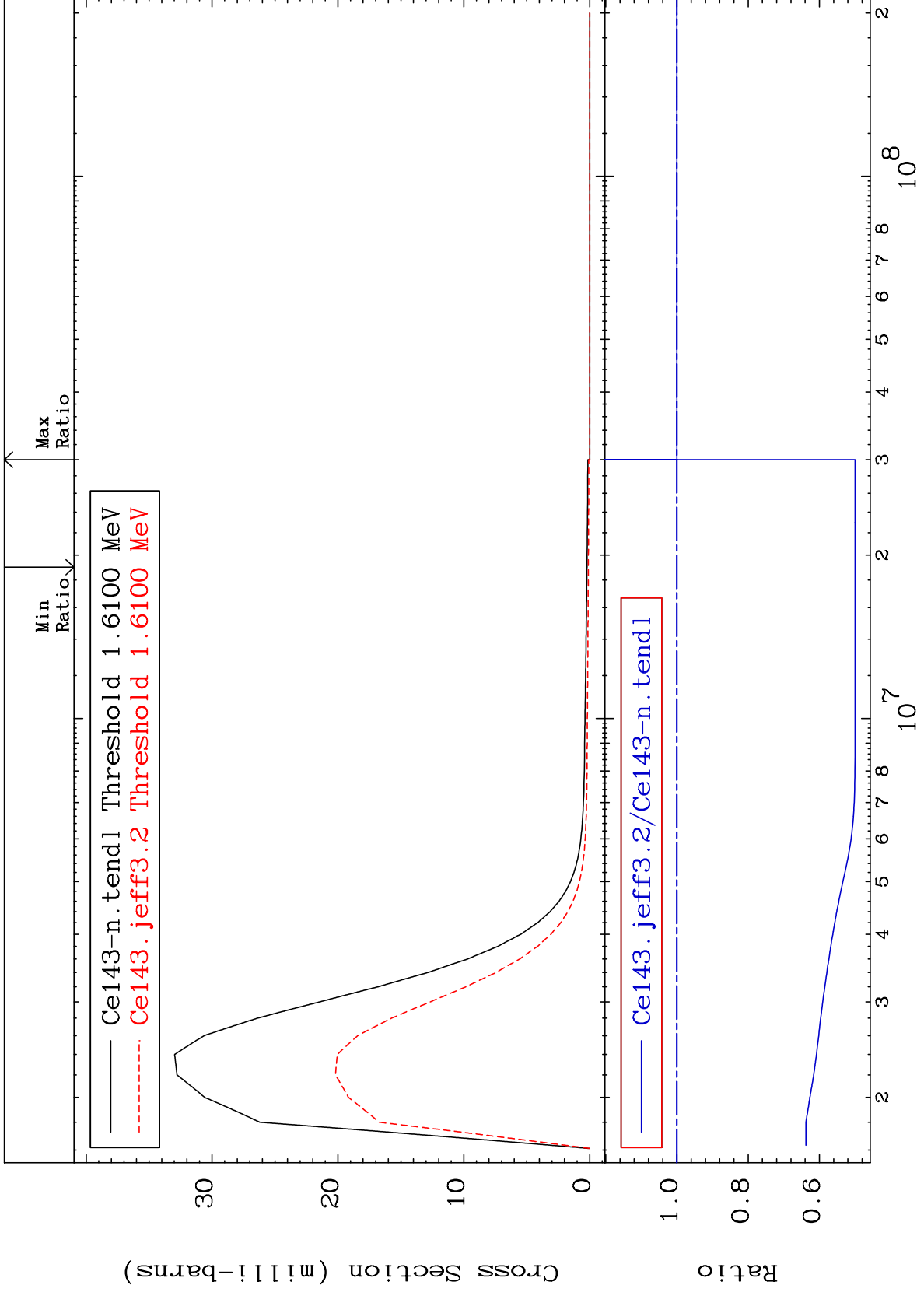
58-Ce-143
0.000 To 16.43 %



MAT 5846

1.599 MeV (n,n') Level
Cross Section

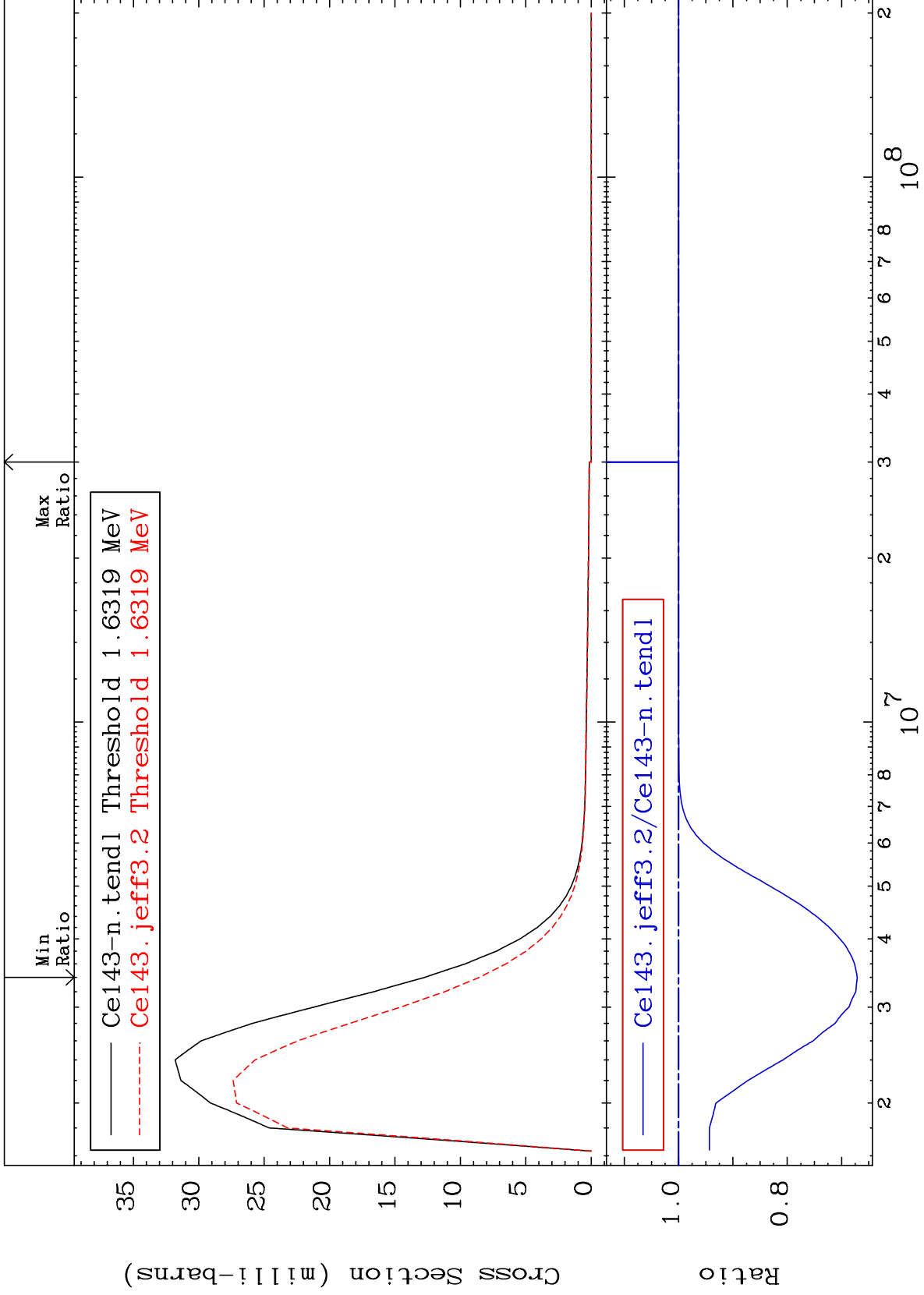
58-Ce-143
-50.02 To 0.000 %



MAT 5846

1.620 MeV (n,n') Level
Cross Section

58-Ce-143
-32.89 To 0.000 %

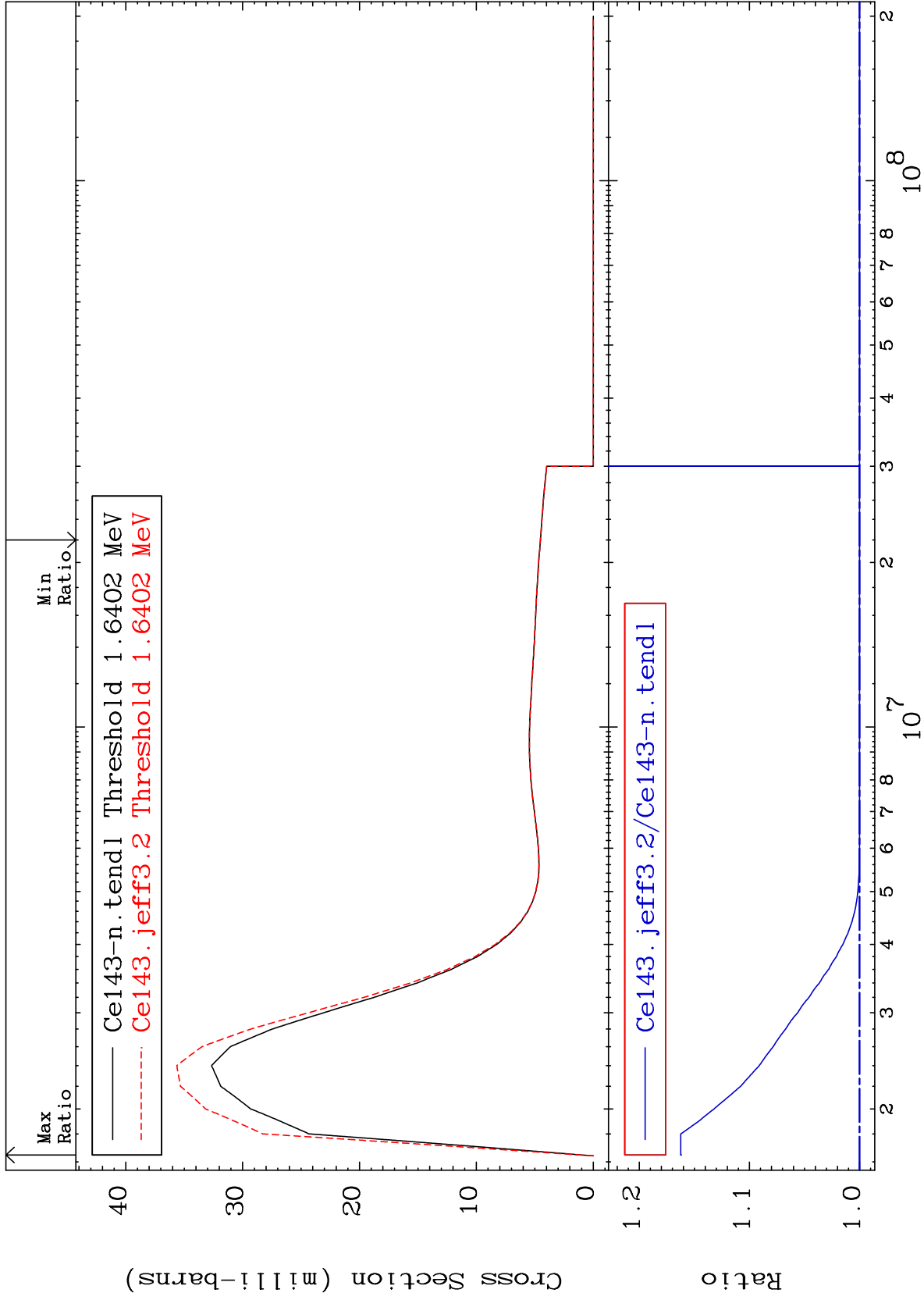


MAT 5846

1.629 MeV (n,n') Level

58-Ce-143

0.000 To 16.24 %



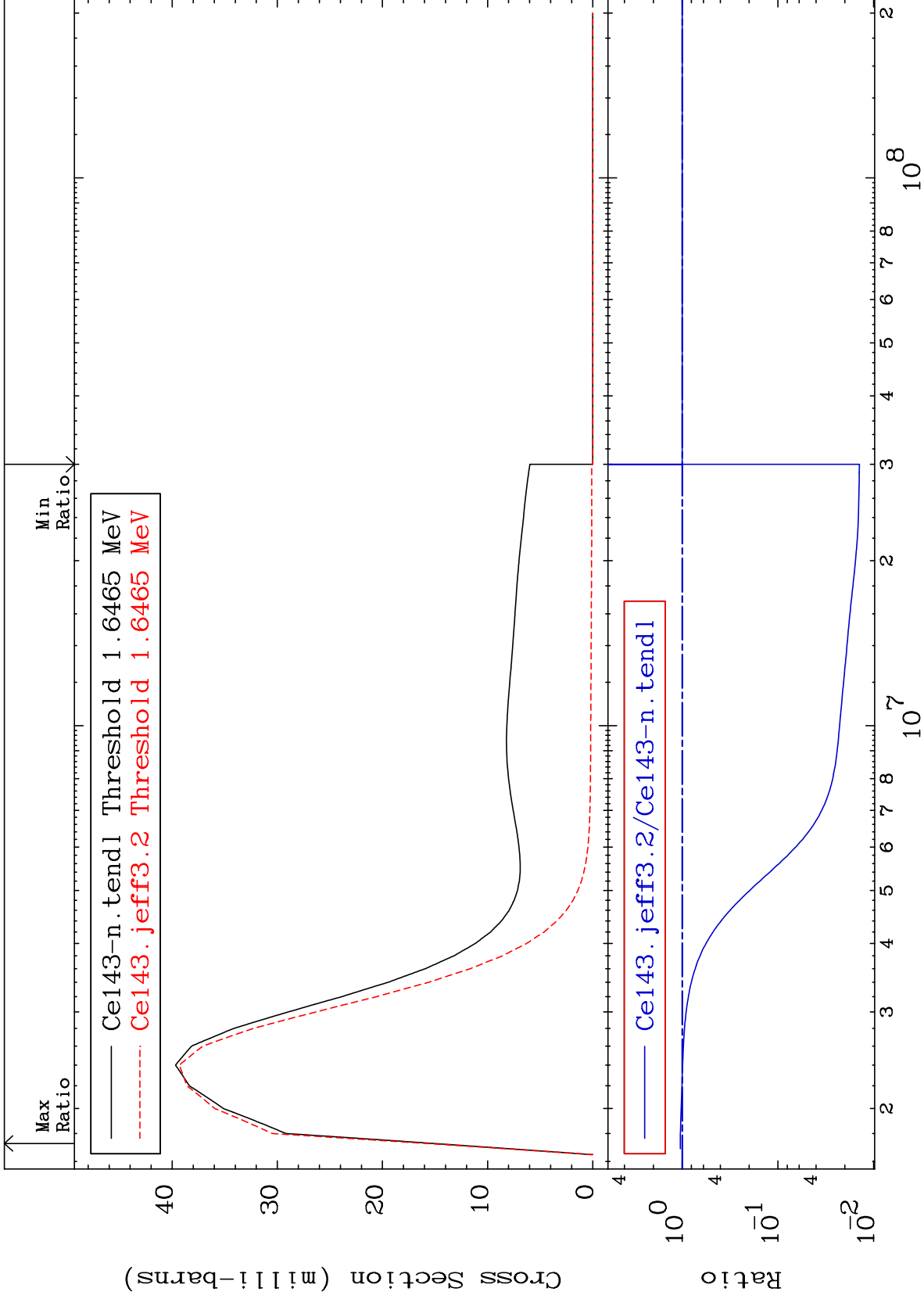
43

58-Ce-143

MAT 5846

1.635 MeV (n,n') Level
Cross Section

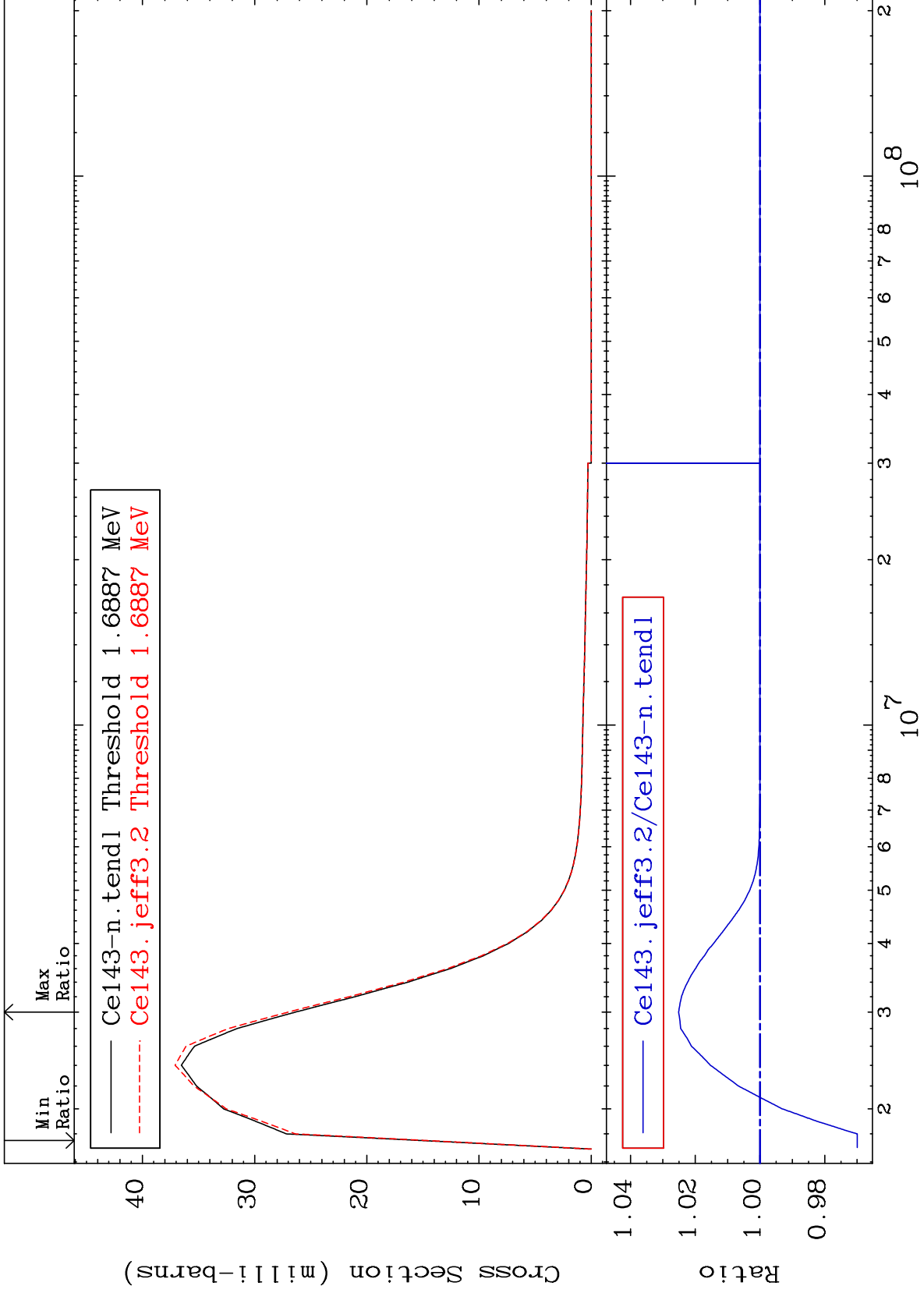
58-Ce-143
-98.59 To 4.436 %



MAT 5846

1.677 MeV (n,n') Level
Cross Section

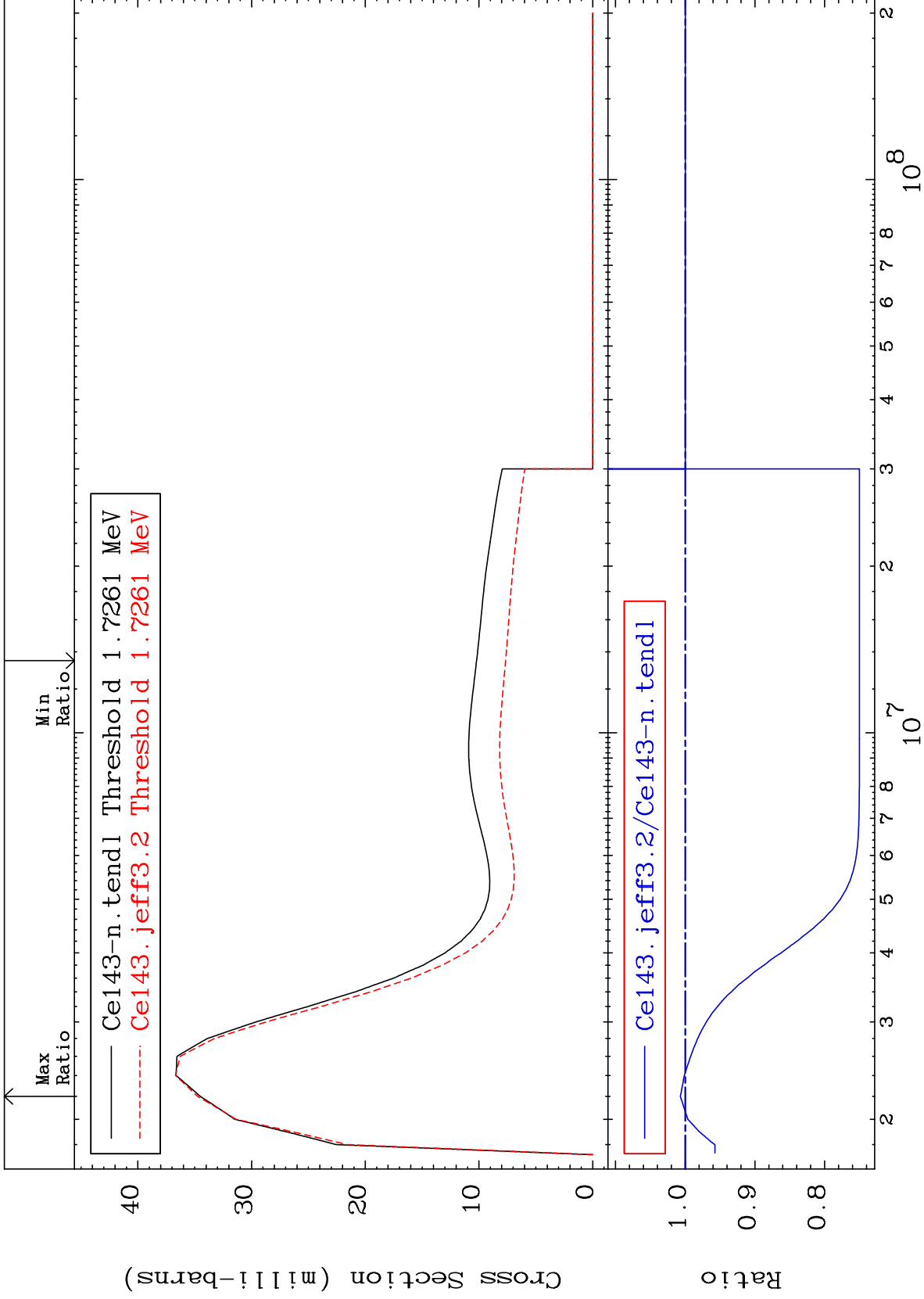
58-Ce-143
-3.004 To 2.513 %



MAT 5846

1.714 MeV (n,n') Level
Cross Section

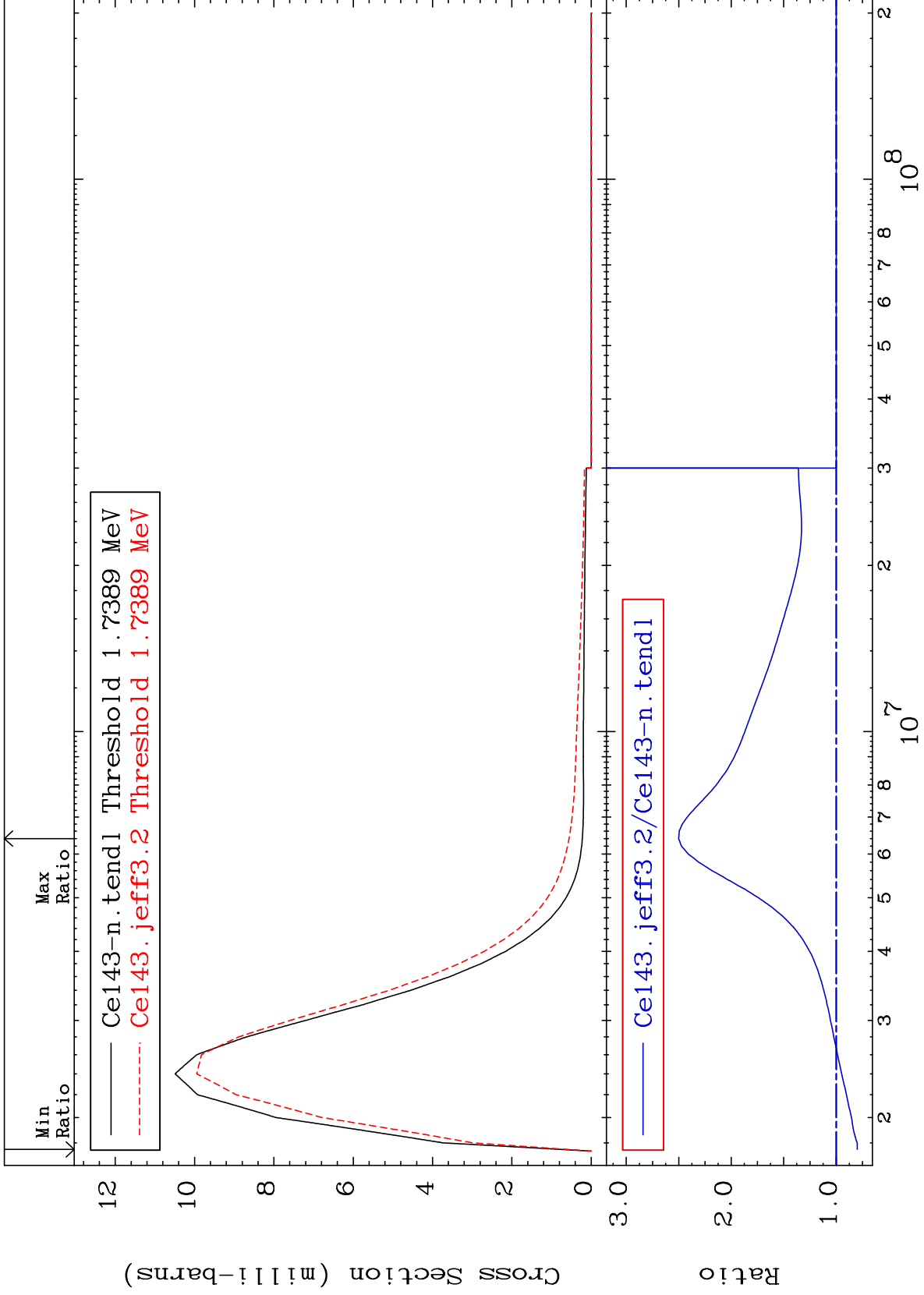
58-Ce-143
-25.00 To 0.697 %



MAT 5846

1.727 MeV (n,n') Level
Cross Section

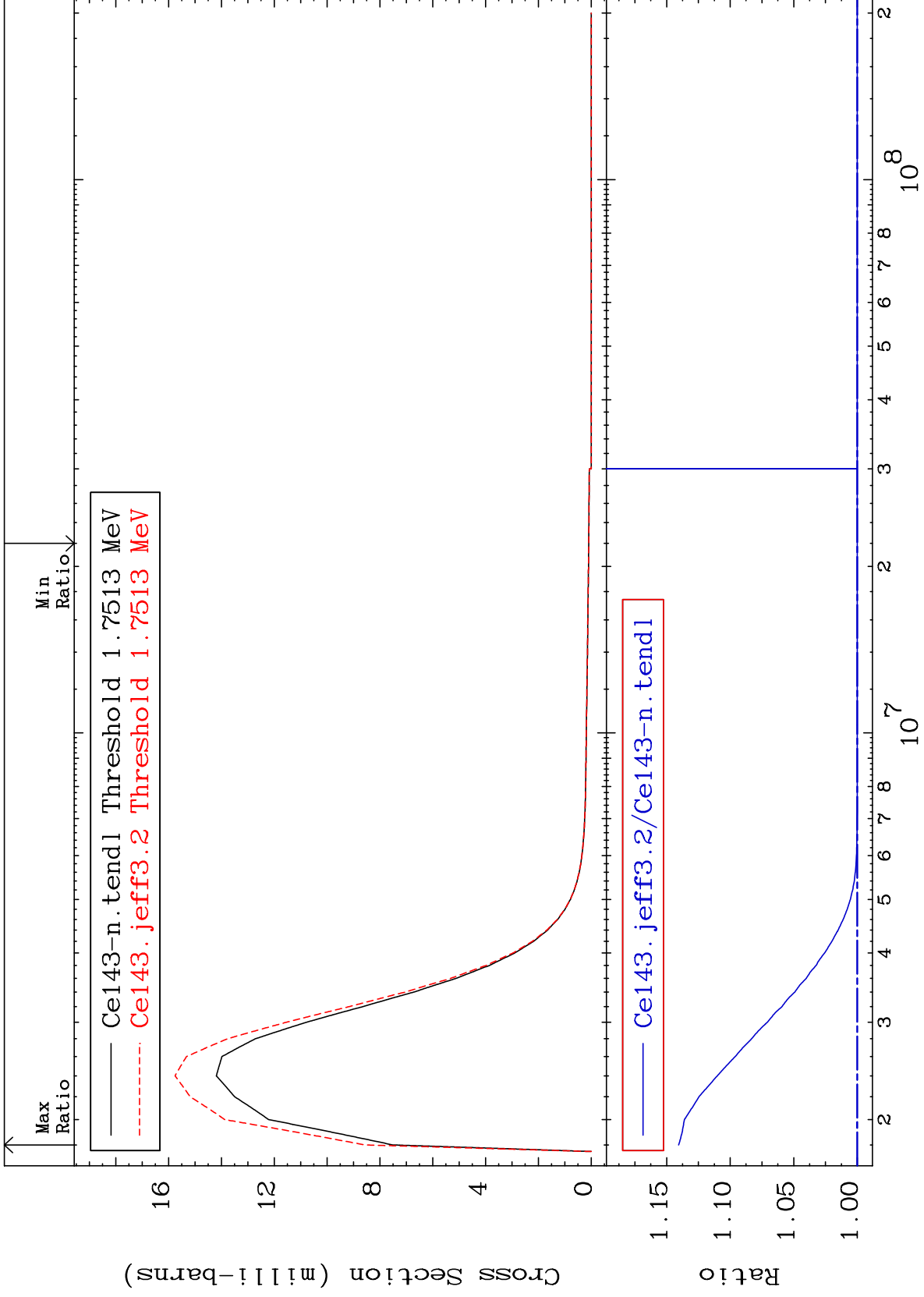
58-Ce-143
-20.07 To 150.1 %



MAT 5846

1.739 MeV (n,n') Level
Cross Section

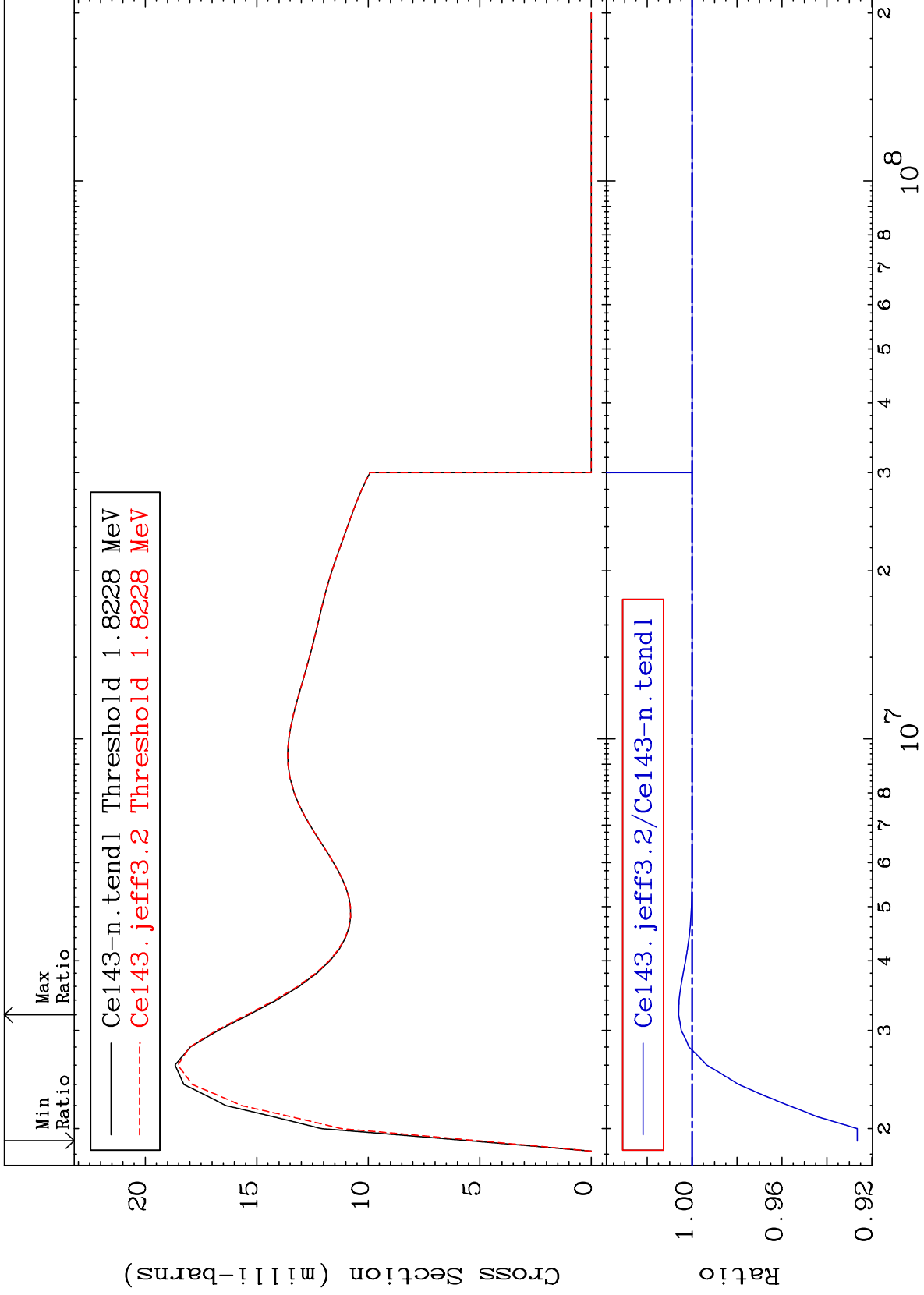
58-Ce-143
0.000 To 14.06 %

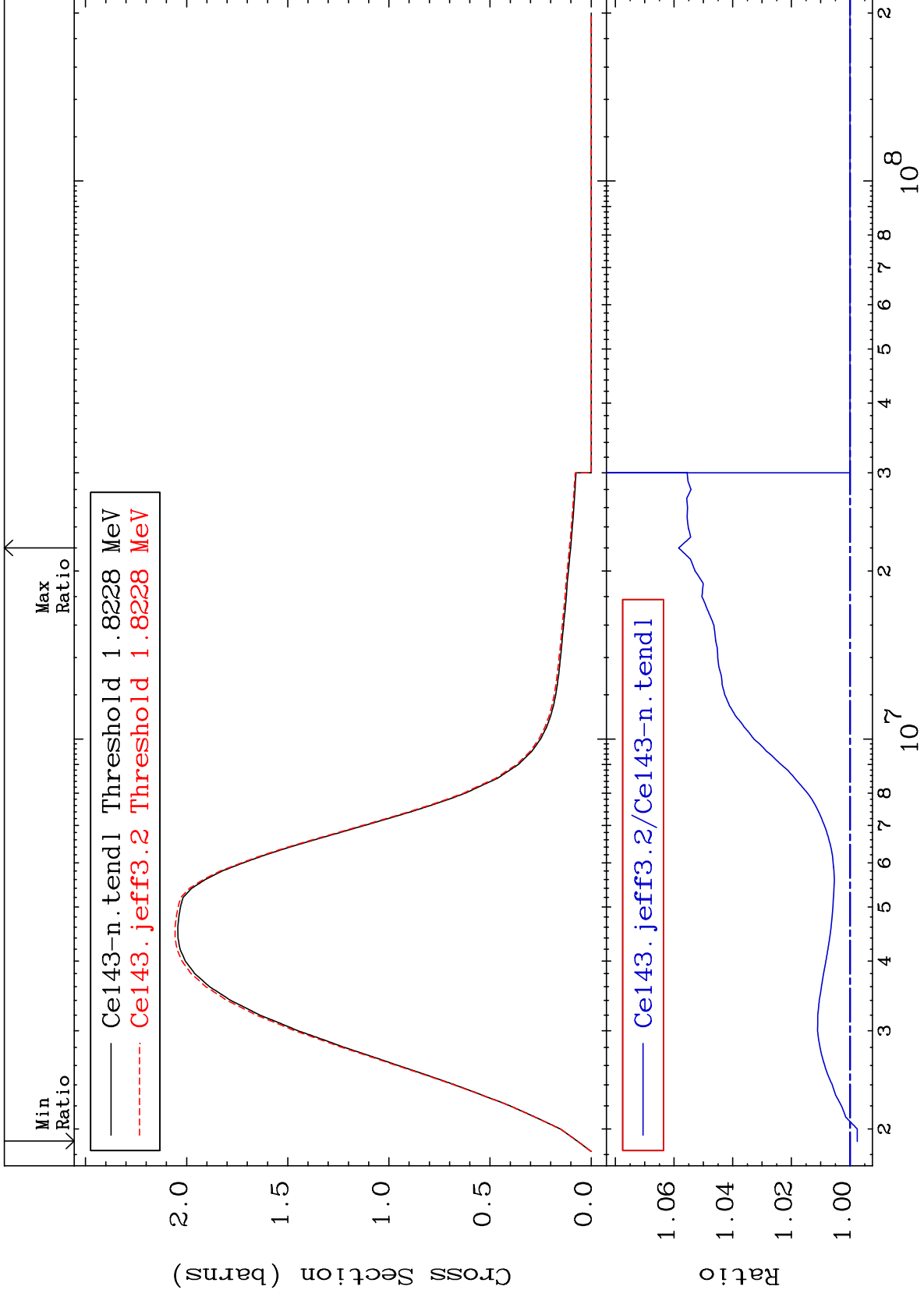


MAT 5846

1.810 MeV (n,n') Level
Cross Section

58-Ce-143
-7.353 To 0.603 %

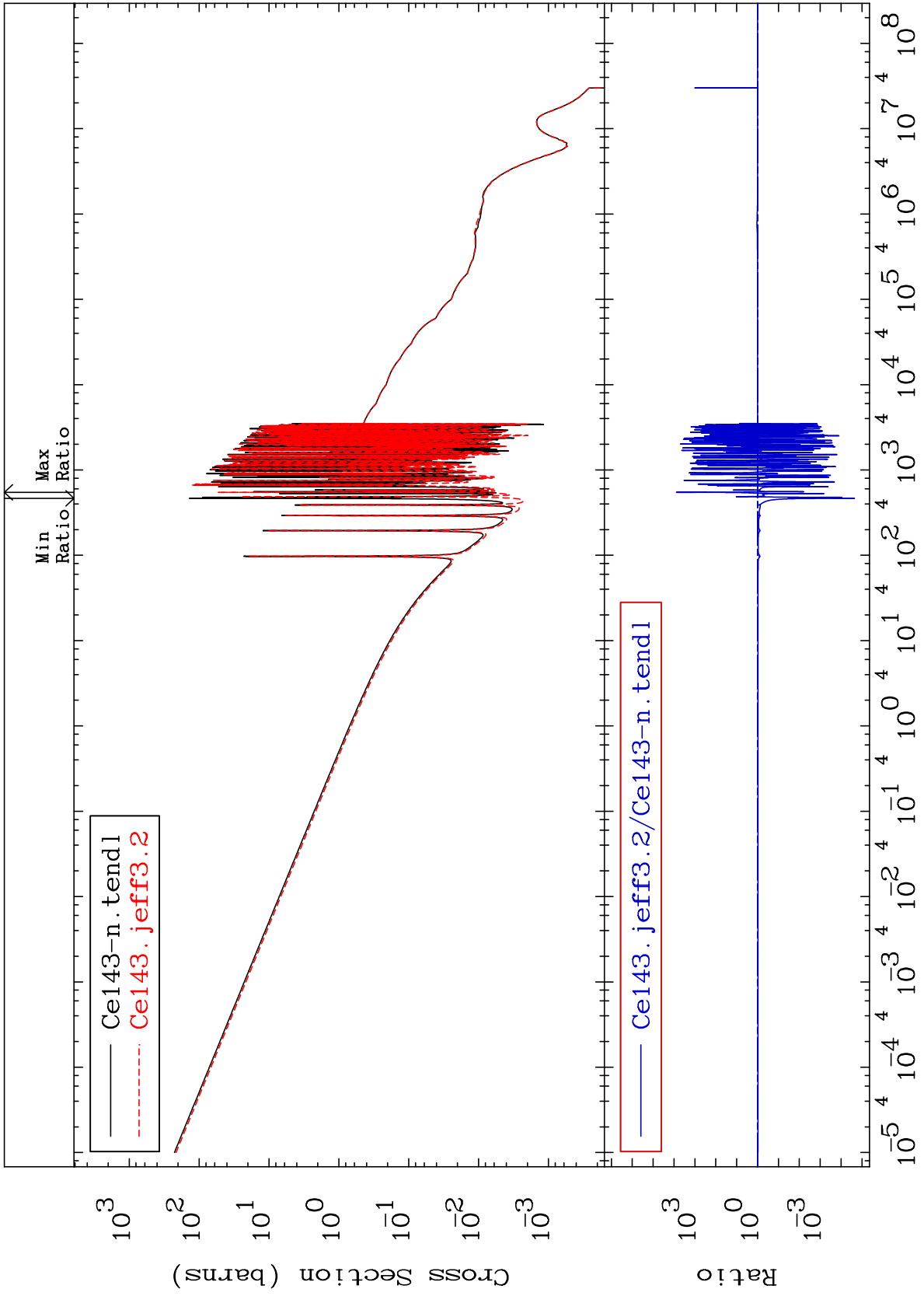




MAT 5846

(n, γ)
Cross Section

58-Ce-143
-100.0 To 9999. %



51

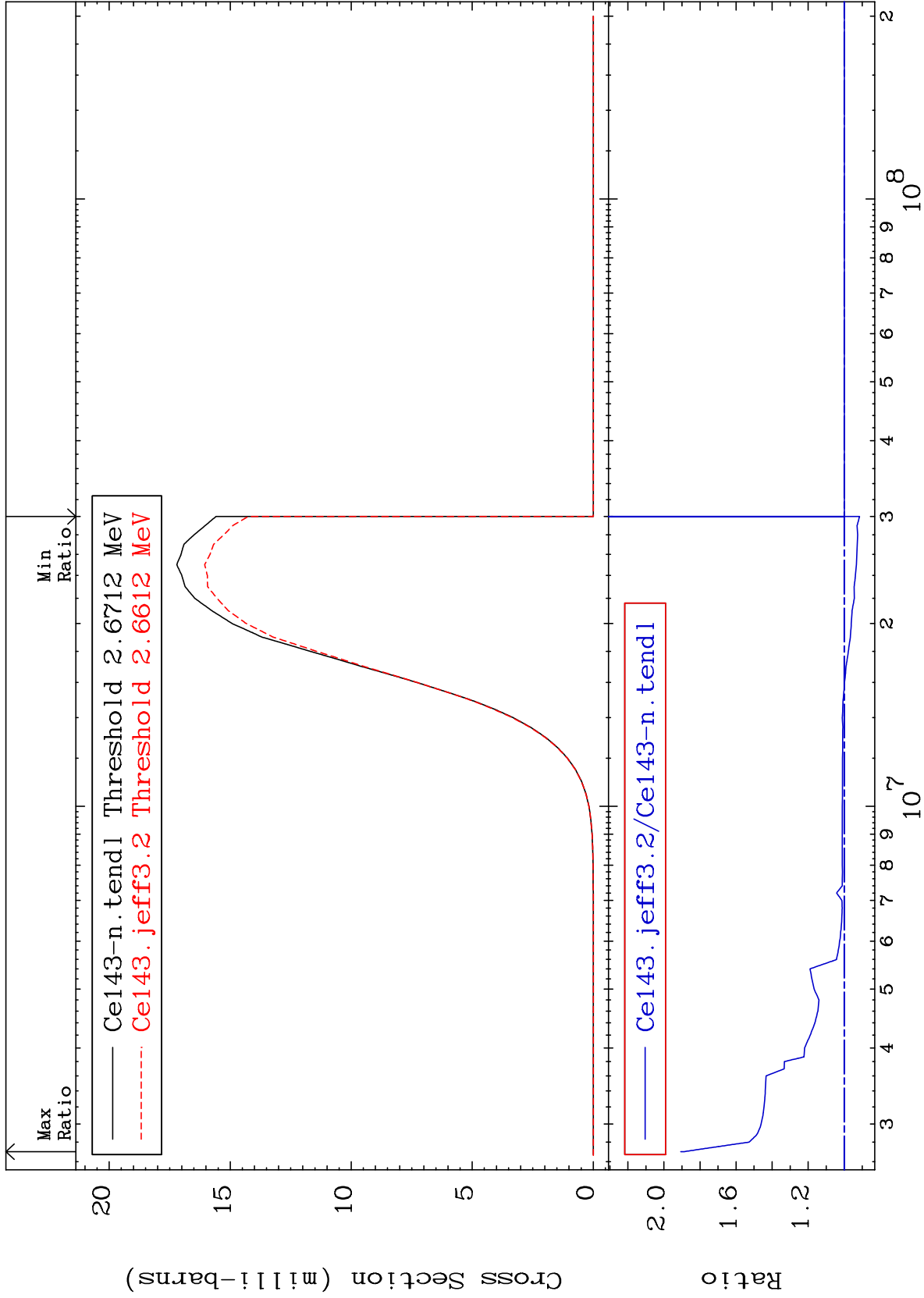
Incident Energy (eV)

58-Ce-143

MAT 5846

(n, p)
Cross Section

58-Ce-143
-8.481 To 90.67 %



52

Incident Energy (eV)

58-Ce-143

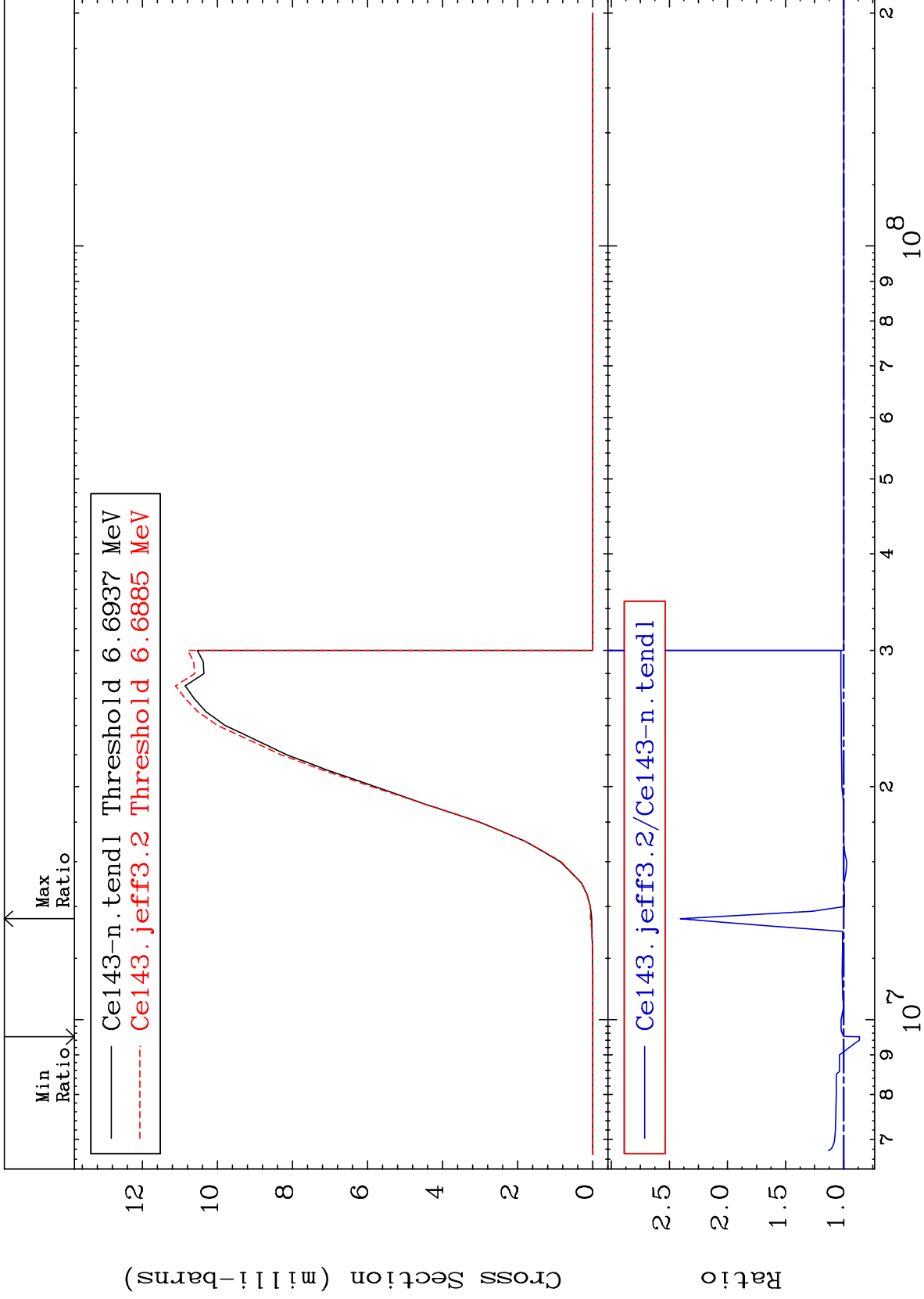
MAT 5846

(n, d)

58-Ce-143

Cross Section

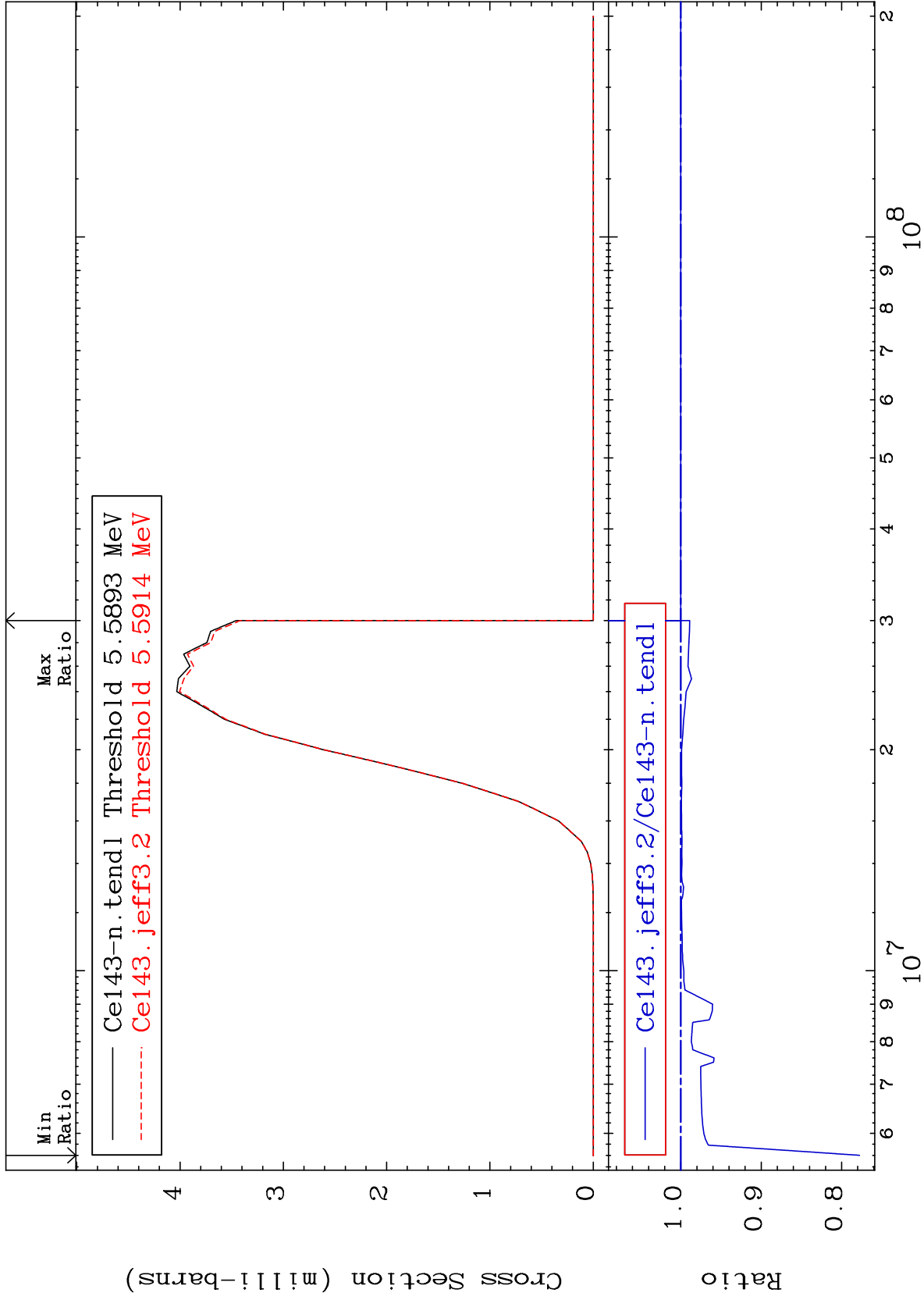
-13.55 To 140.6 %



MAT 5846

58-Ce-143

(n, t)
Cross Section
-22.22 To 0.000 %



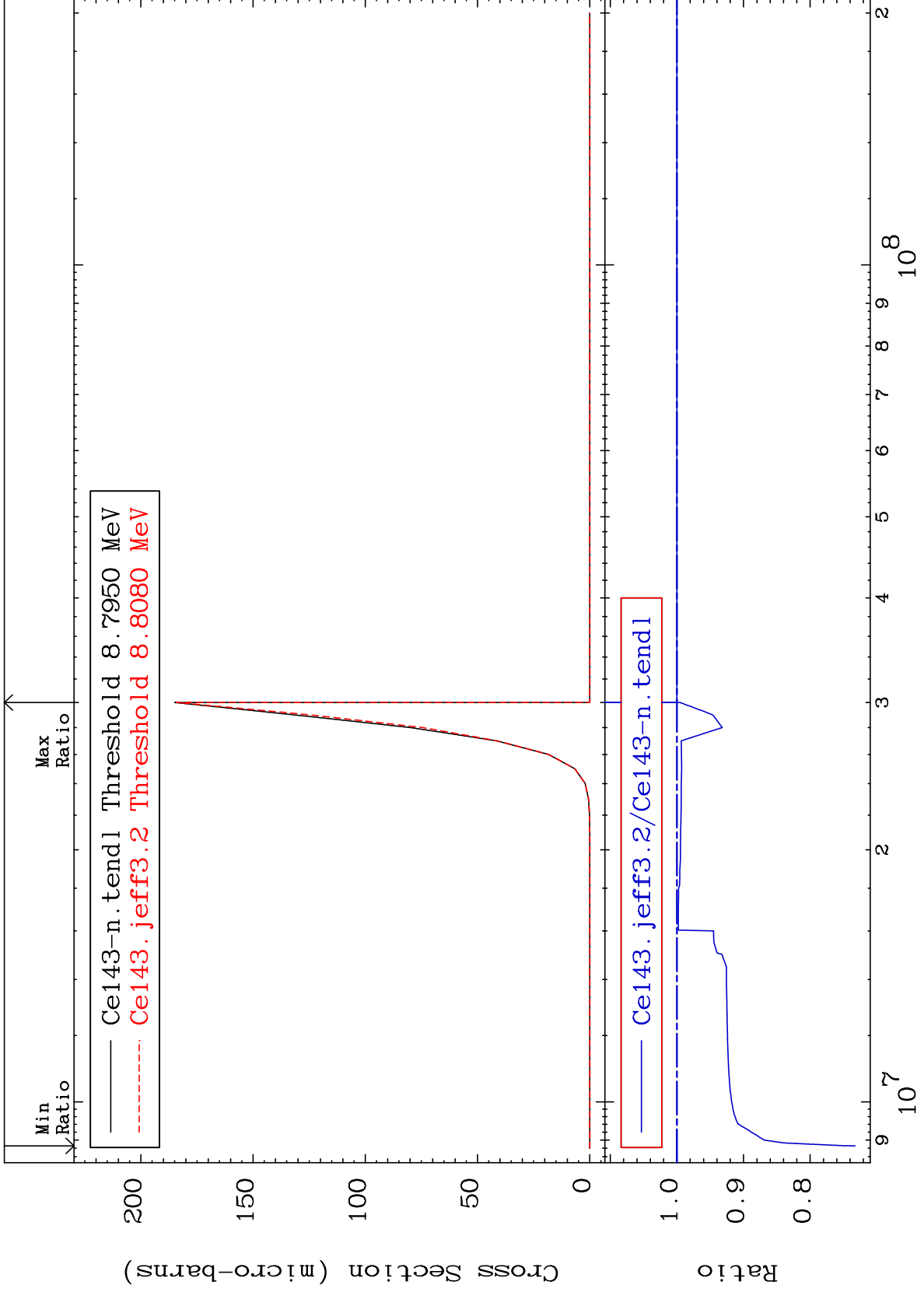
MAT 5846

(n, He-3)

58-Ce-143

Cross Section

-26.74 To 0.000 %

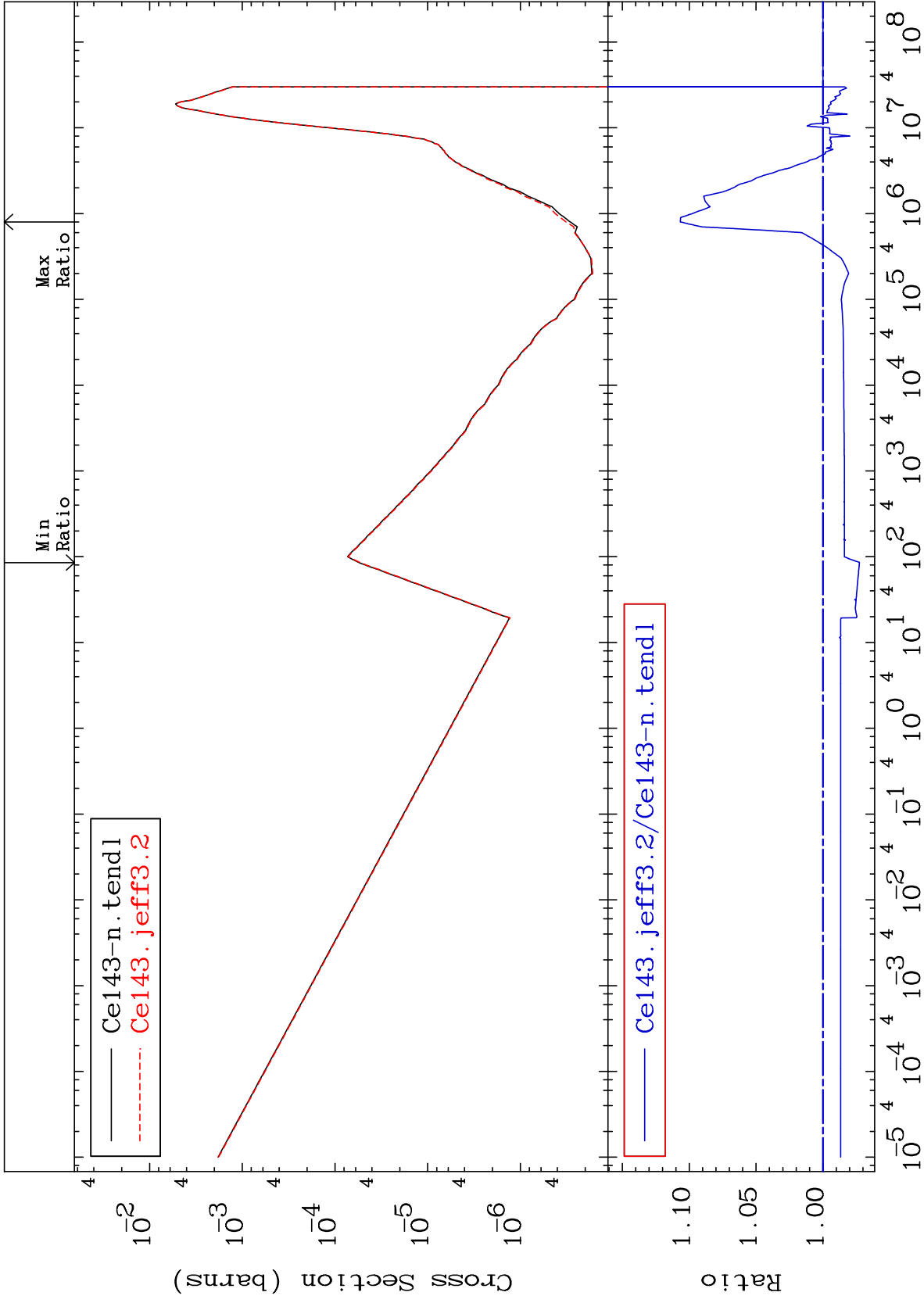


MAT 5846

58-Ce-143

(n, α)
Cross Section

-2.731 To 10.66 %



56

Incident Energy (eV)

58-Ce-143

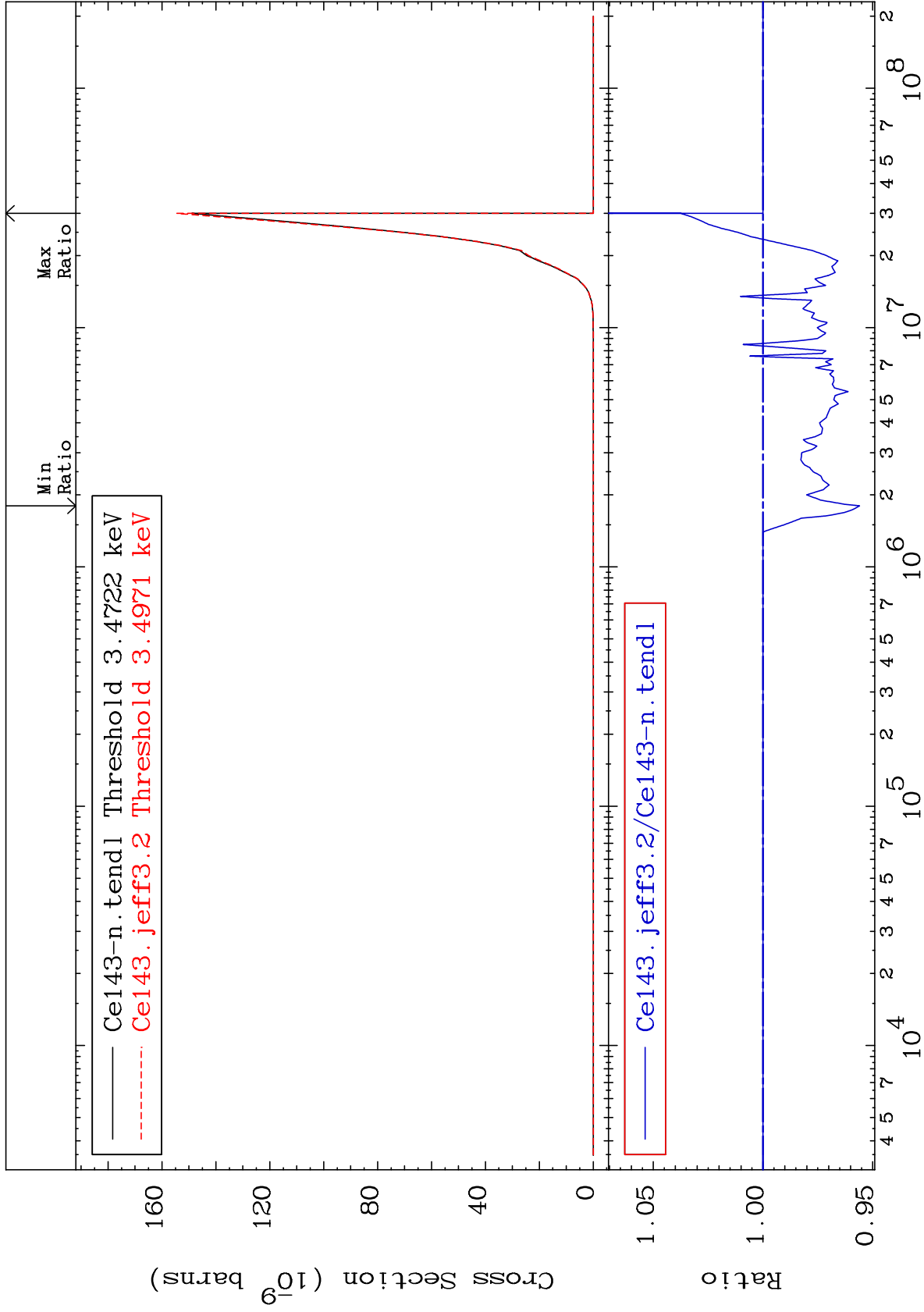
MAT 5846

(n,2α)

58-Ce-143

Cross Section

-4.406 To 3.748 %



— Ce143-n.tendl Threshold 3.4722 keV
- - - Ce143.jeff3.2 Threshold 3.4971 keV

— Ce143.jeff3.2/Ce143-n.tendl

57

Incident Energy (eV)

58-Ce-143

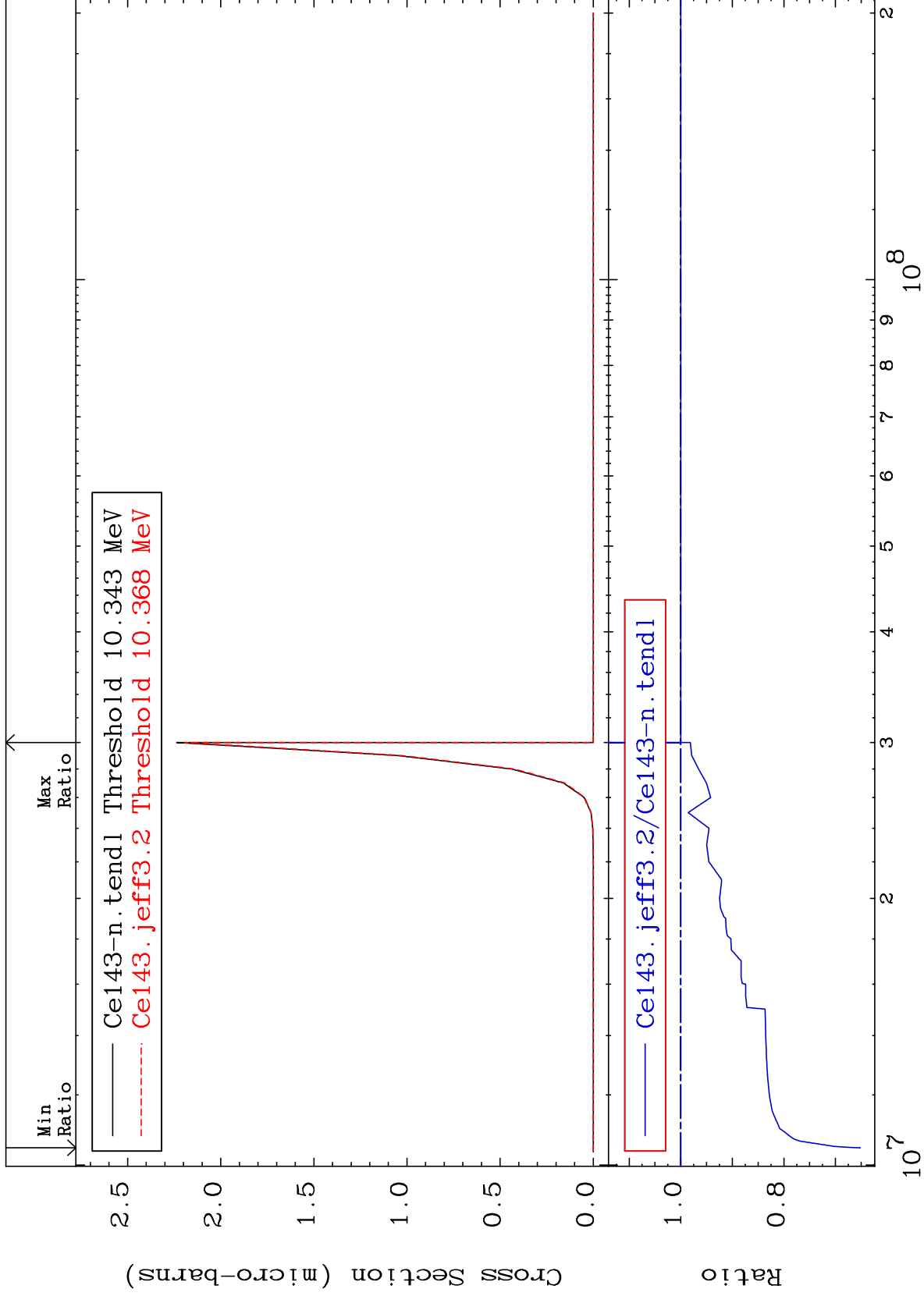
MAT 5846

(n,2p)

58-Ce-143

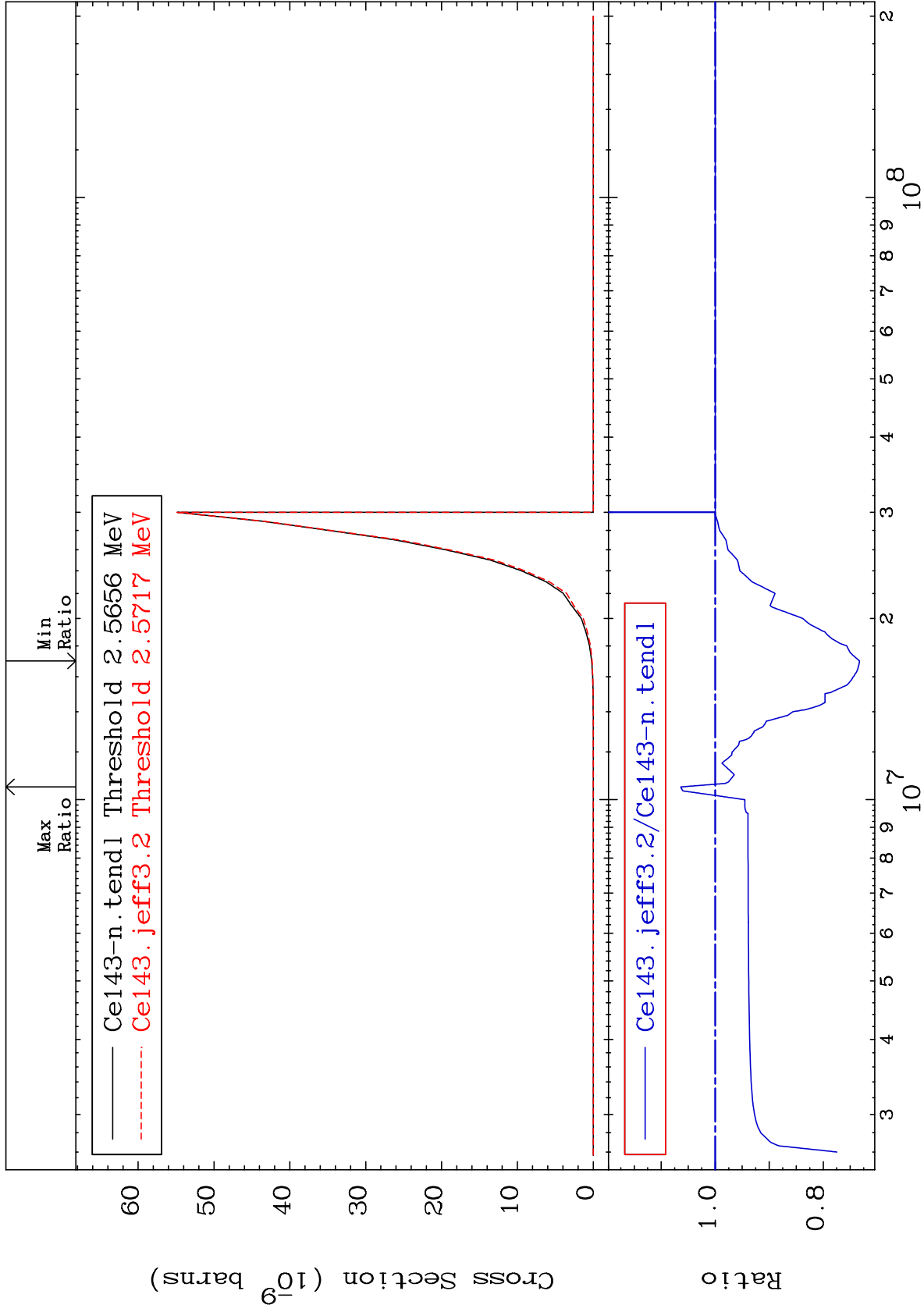
Cross Section

-34.67 To 0.000 %



MAT 5846

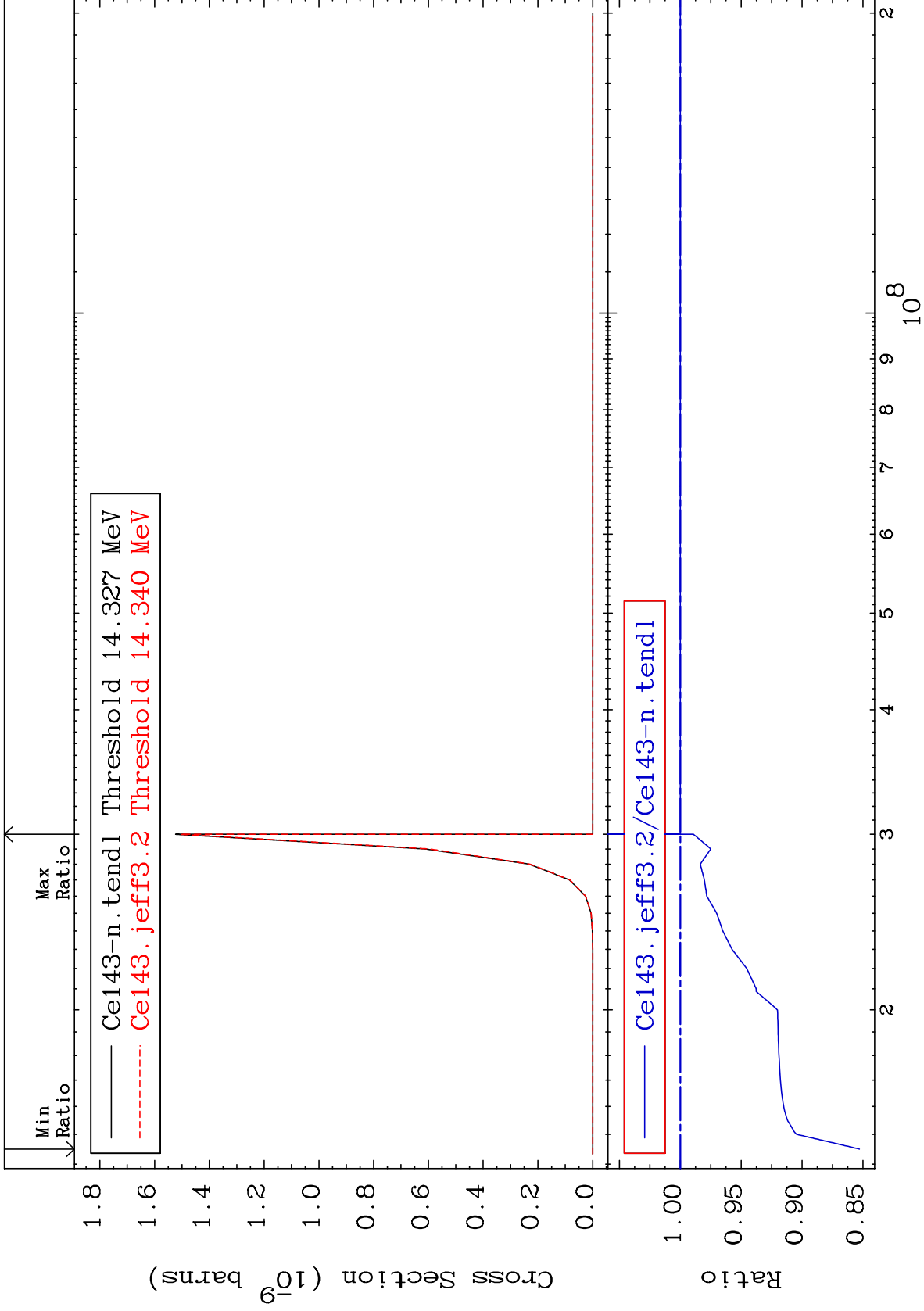
(n, p) α Cross Section
58-Ce-143
-26.72 To 6.378 %

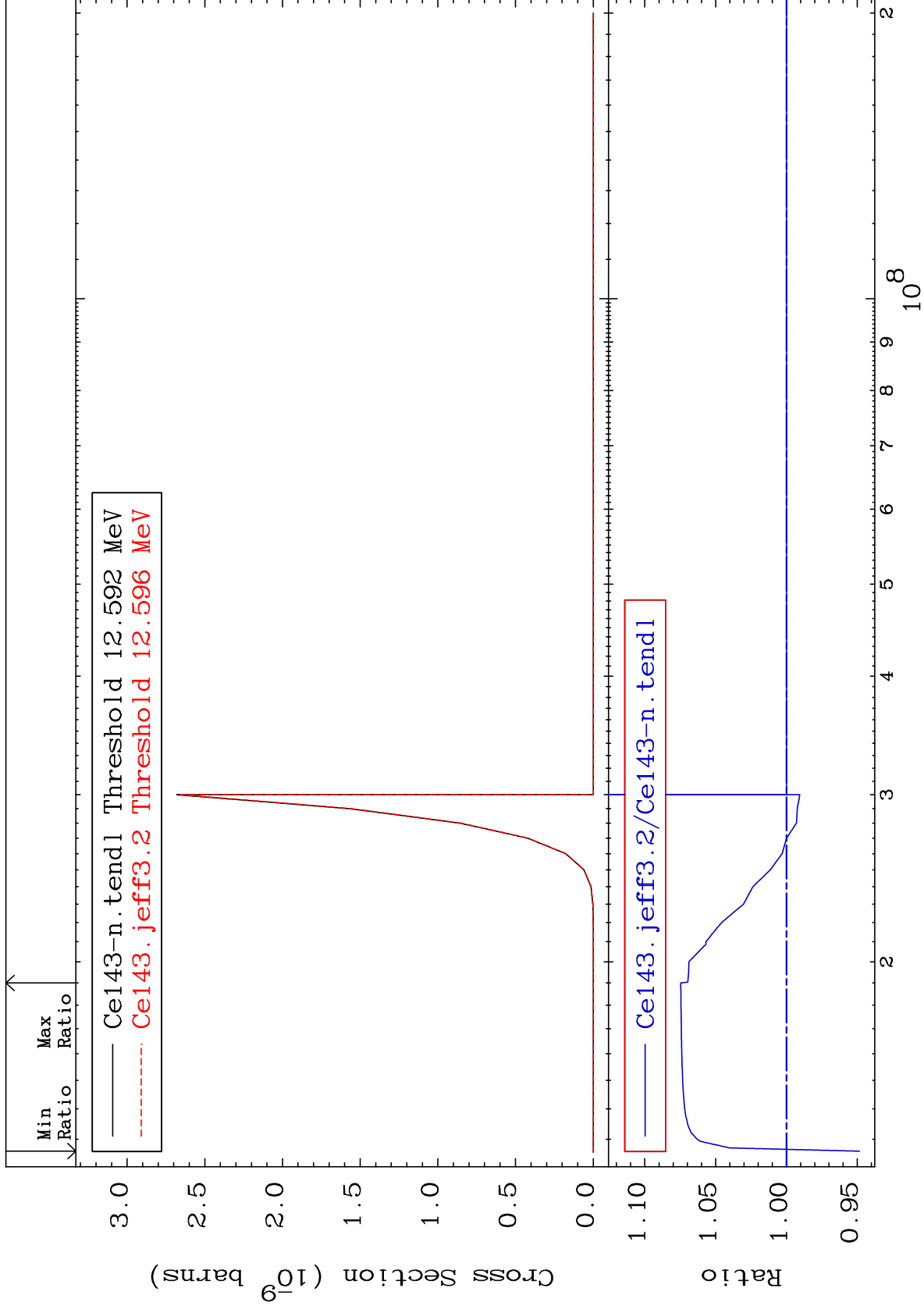


59

Incident Energy (eV)

58-Ce-143





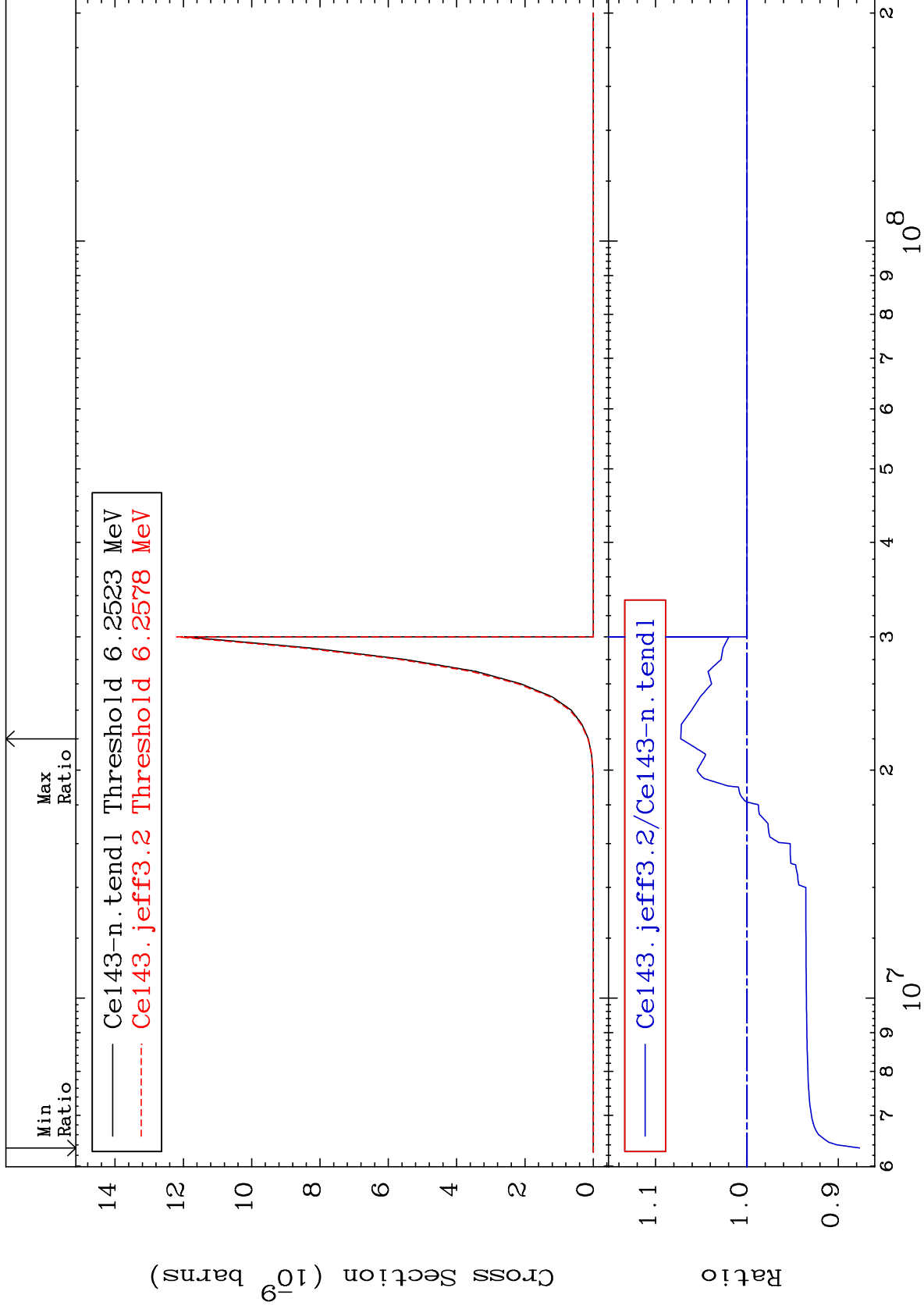
MAT 5846

(n,d) α

58-Ce-143

Cross Section

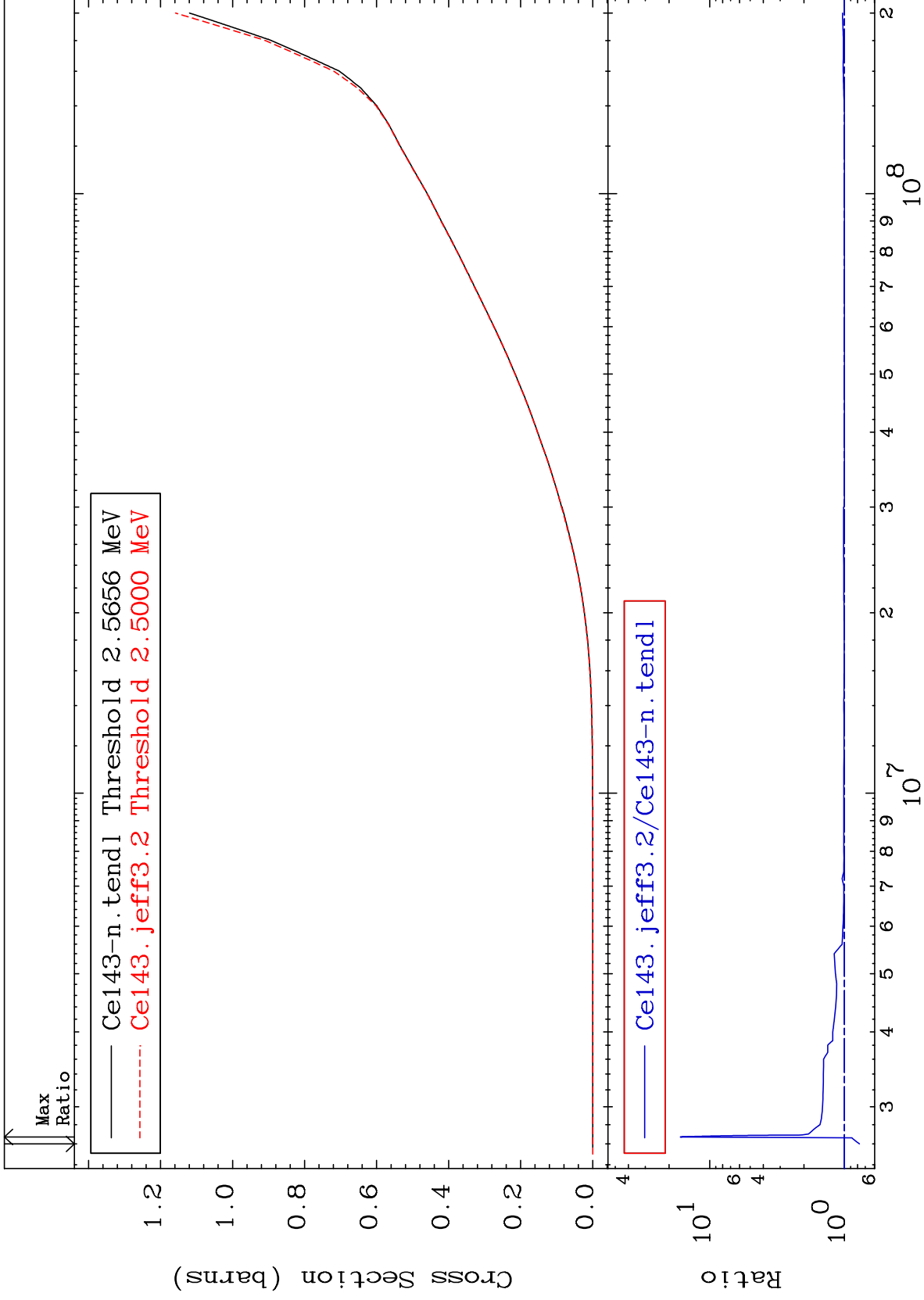
-12.32 To 7.239 %



62

Incident Energy (eV)

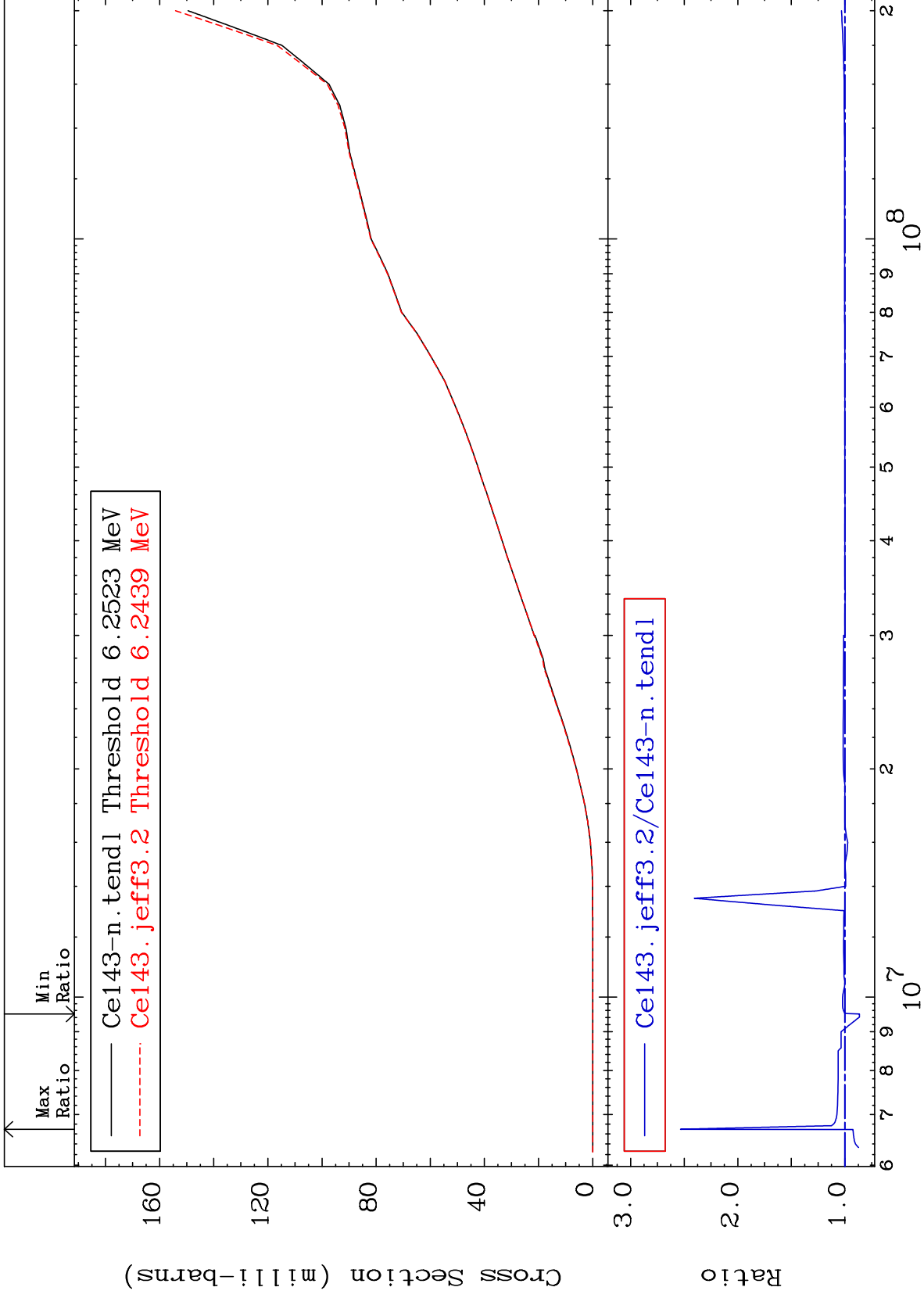
58-Ce-143



MAT 5846

Deuterium Production
Cross Section

58-Ce-143
-13.55 To 153.6 %



64

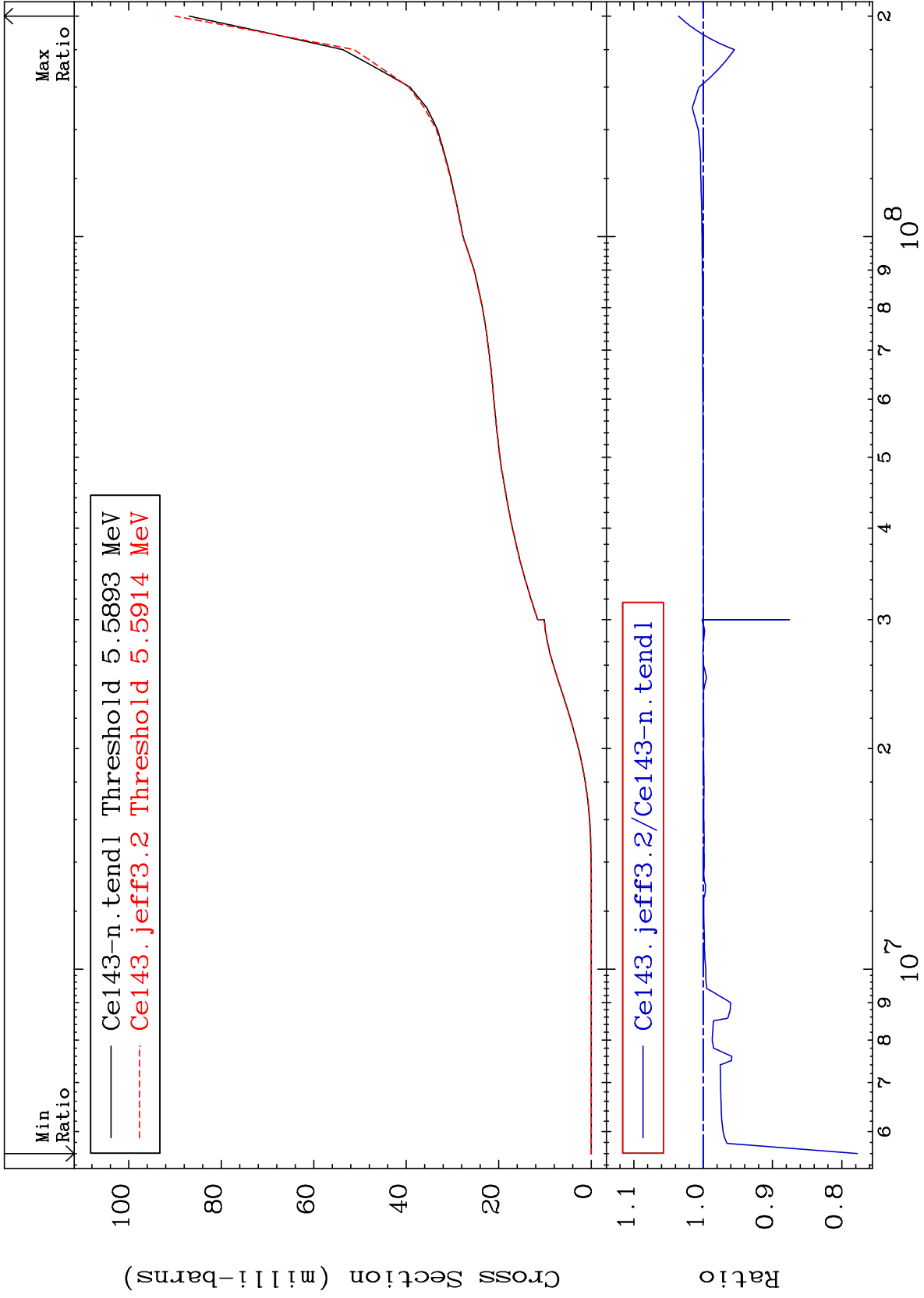
Incident Energy (eV)

58-Ce-143

MAT 5846

Tritium Production
Cross Section

58-Ce-143
-22.22 To 3.536 %



65

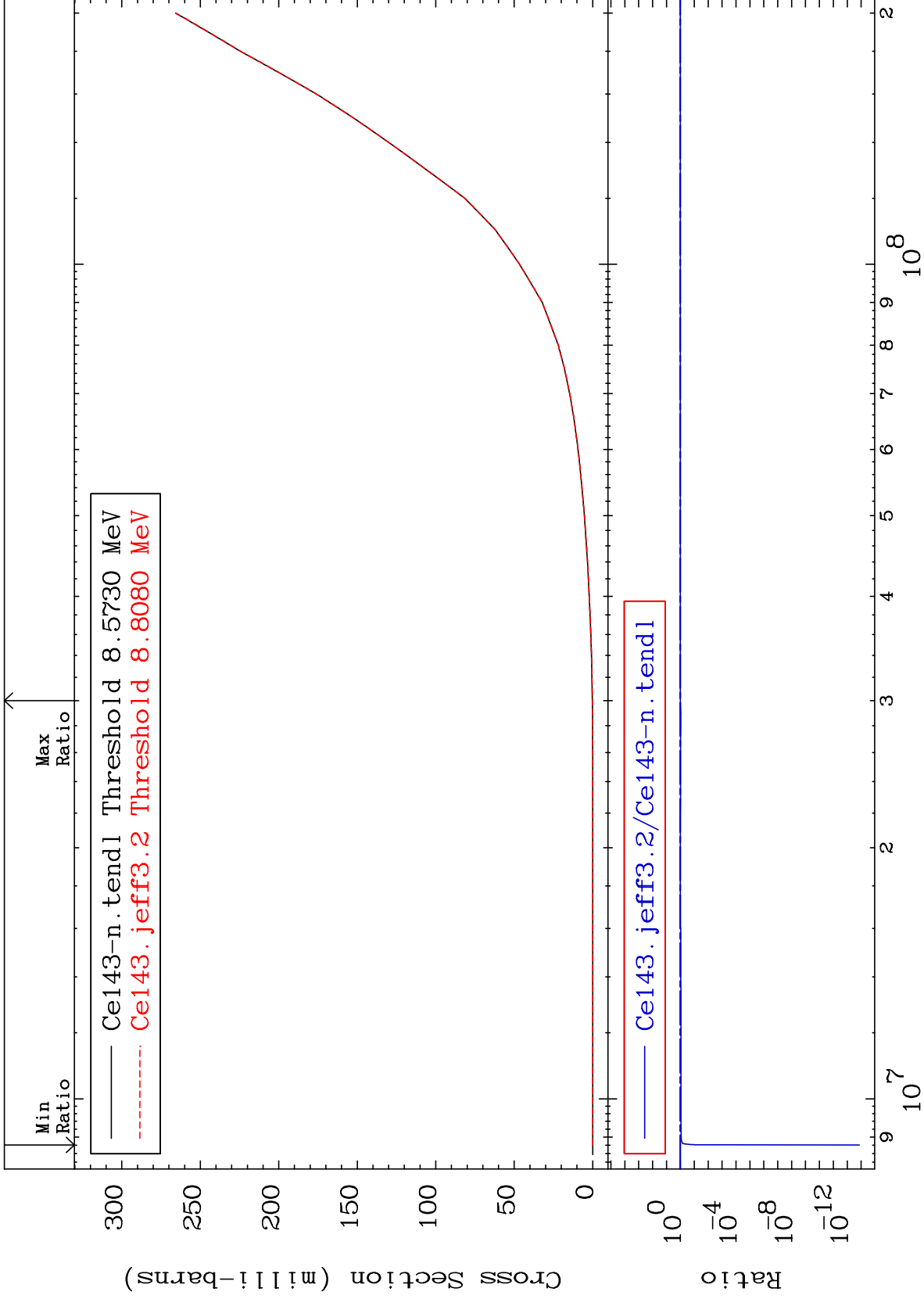
Incident Energy (eV)

58-Ce-143

MAT 5846

He-3 Production
Cross Section

58-Ce-143
-100.0 To 0.337 %



66

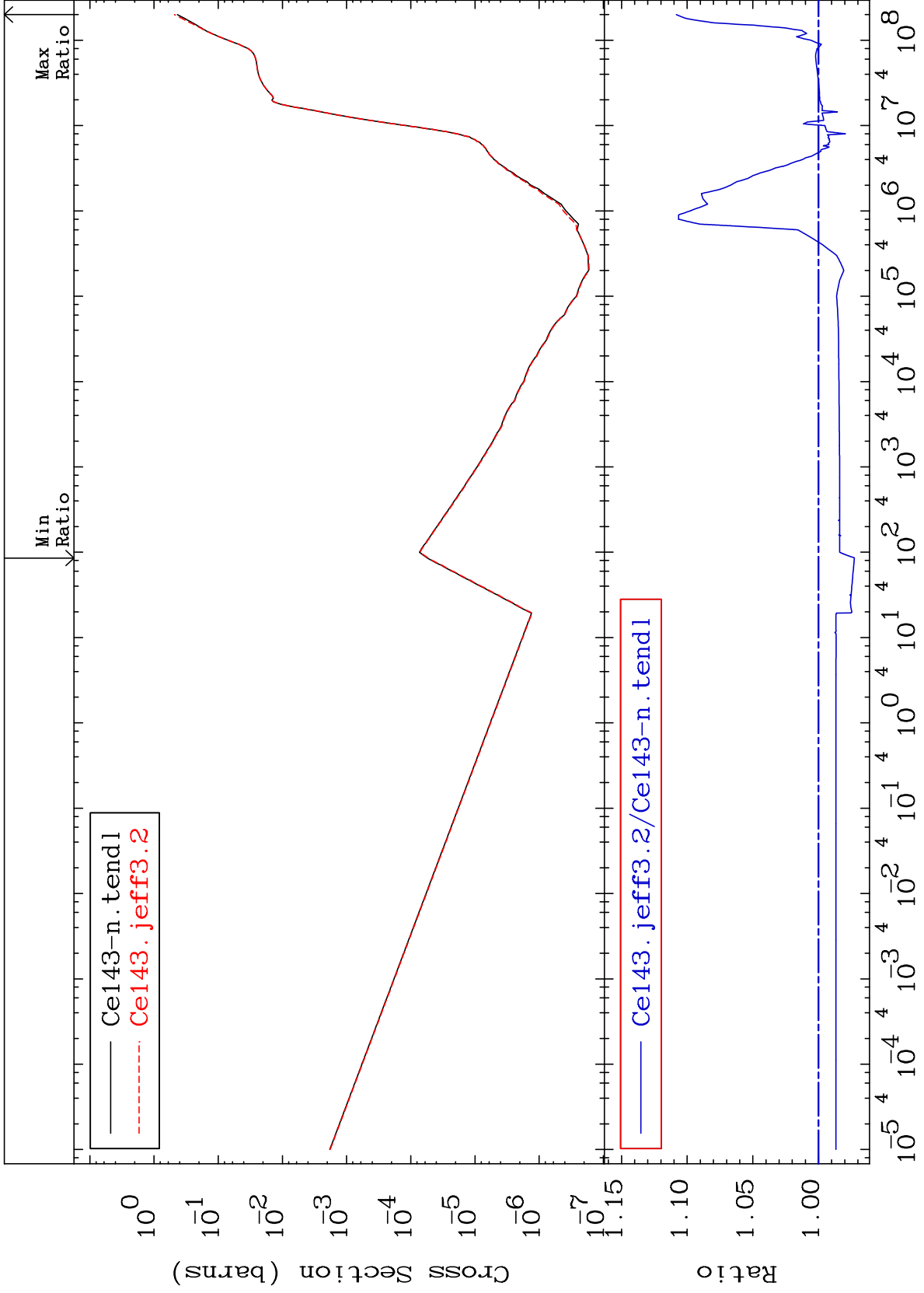
Incident Energy (eV)

58-Ce-143

MAT 5846

He-4 Production
Cross Section

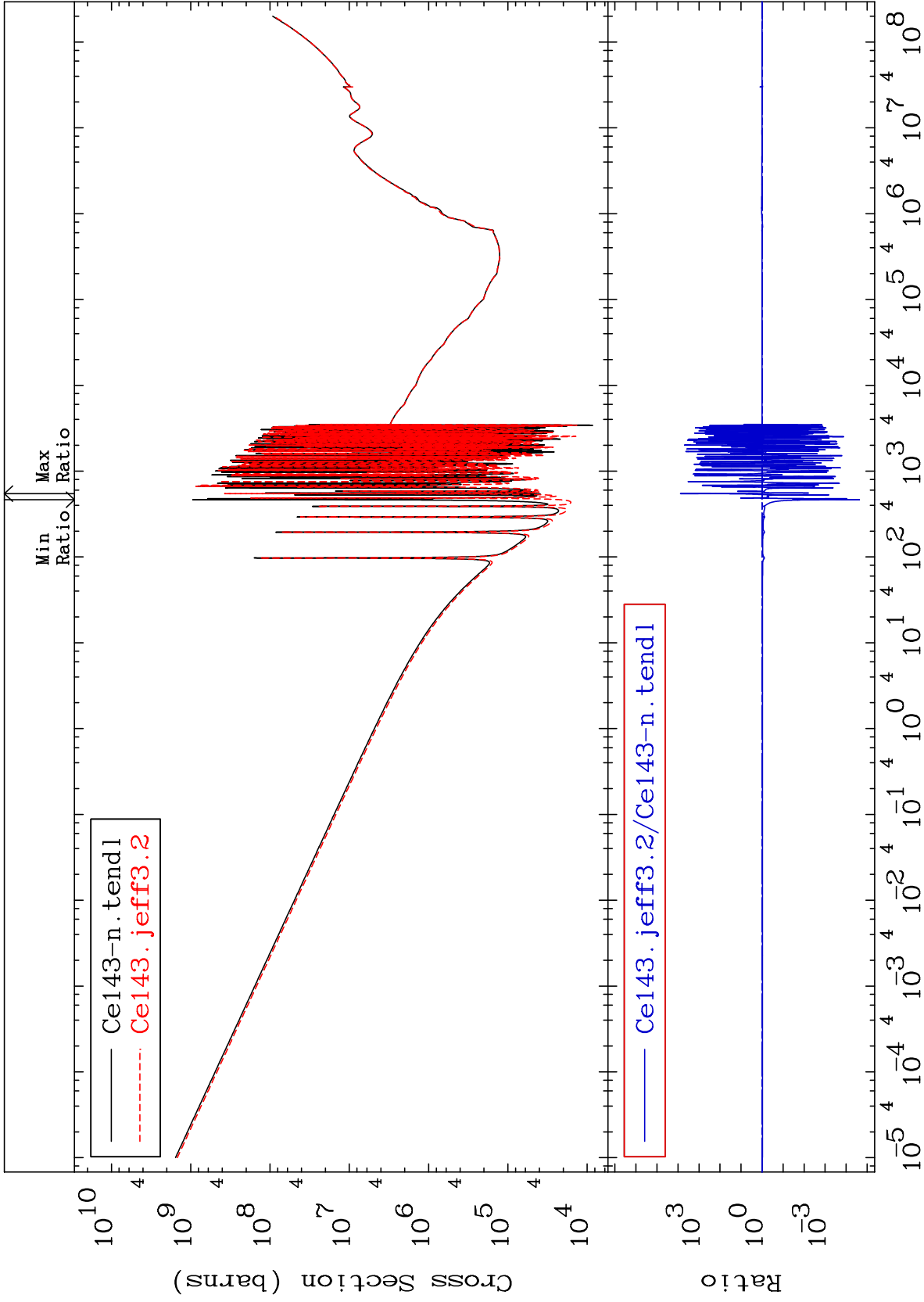
58-Ce-143
-2.731 To 10.83 %



67

Incident Energy (eV)

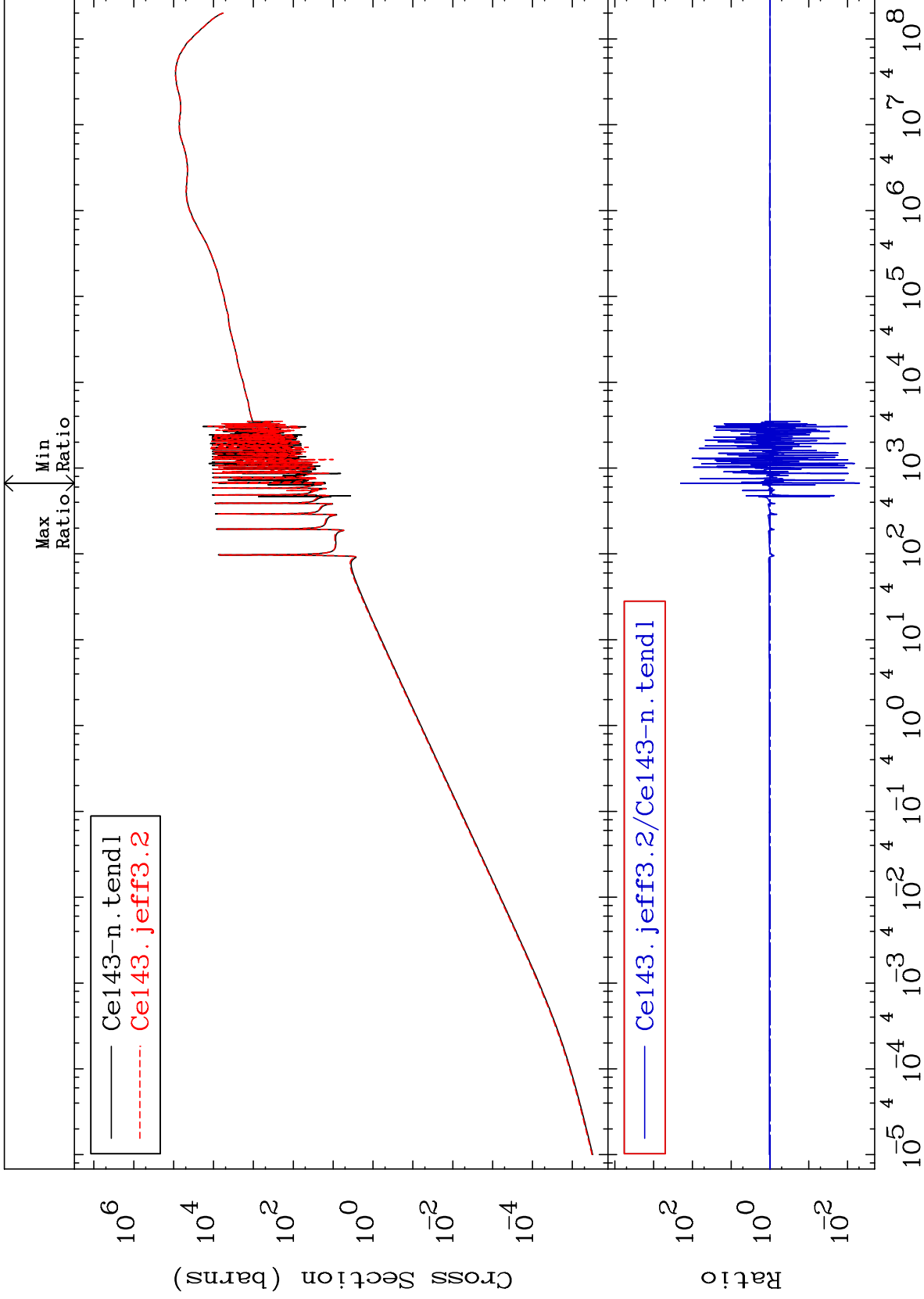
58-Ce-143



MAT 5846

Kerma elastic
Cross Section

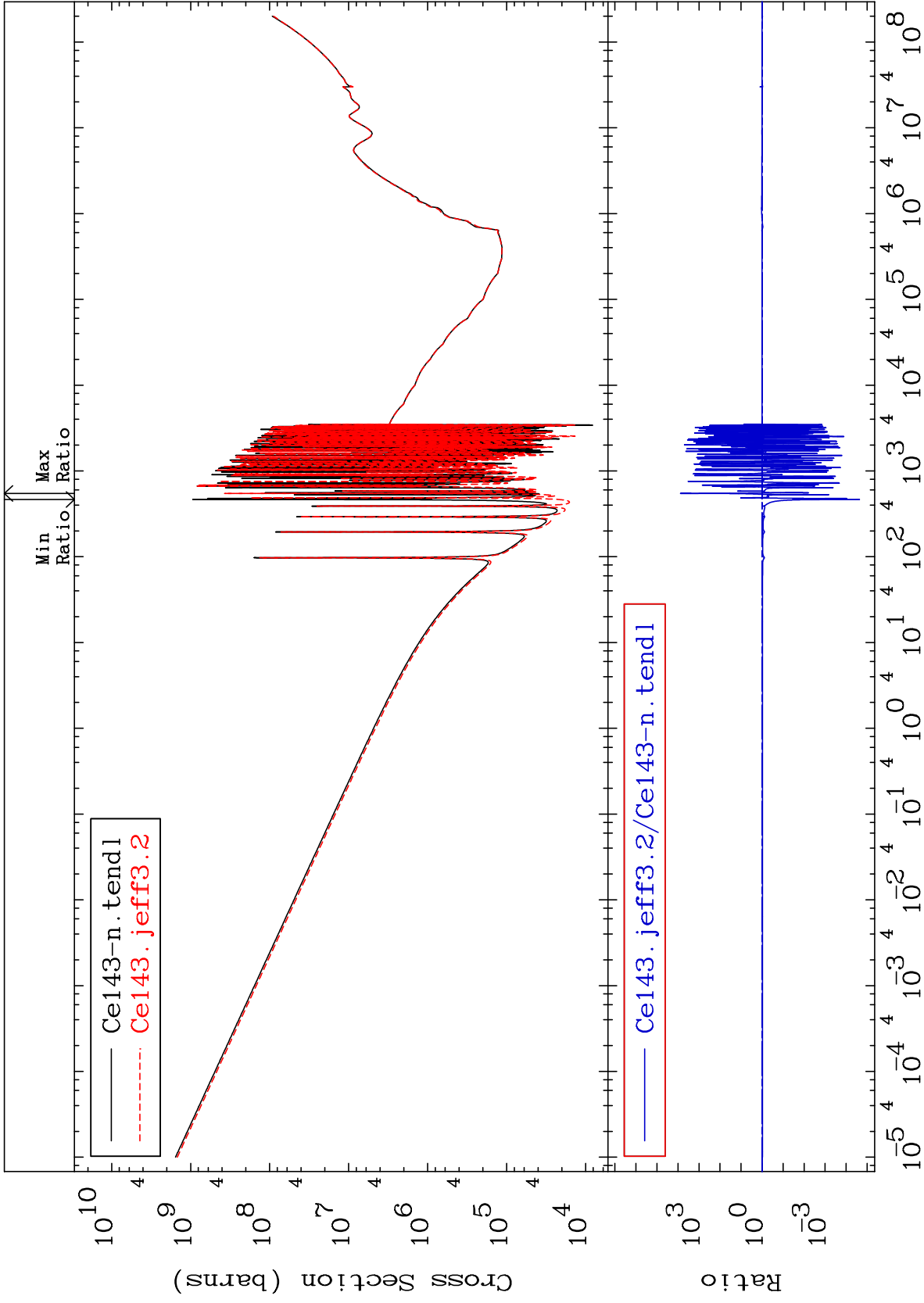
58-Ce-143
-99.51 To 9999. %

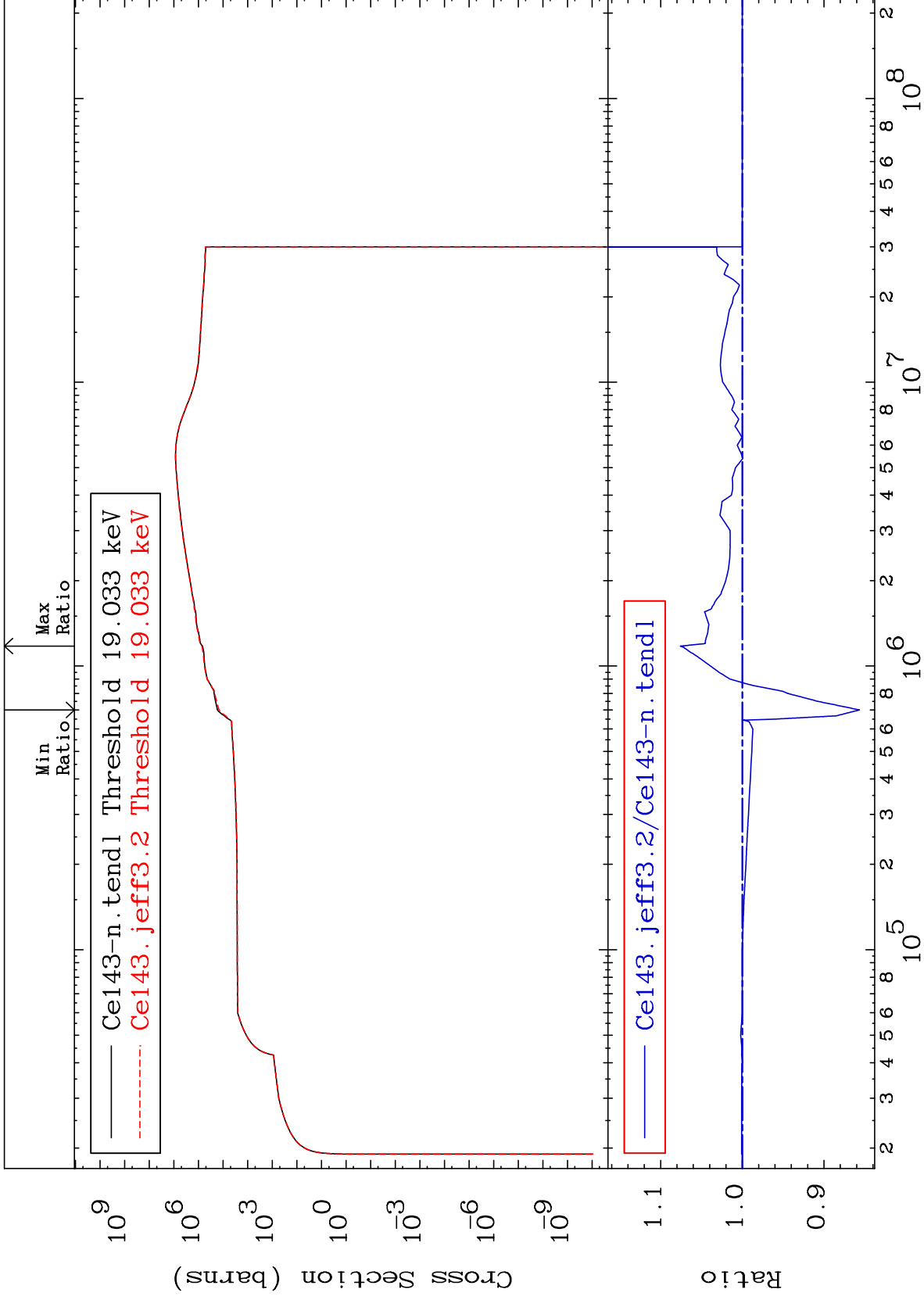


69

Incident Energy (eV)

58-Ce-143

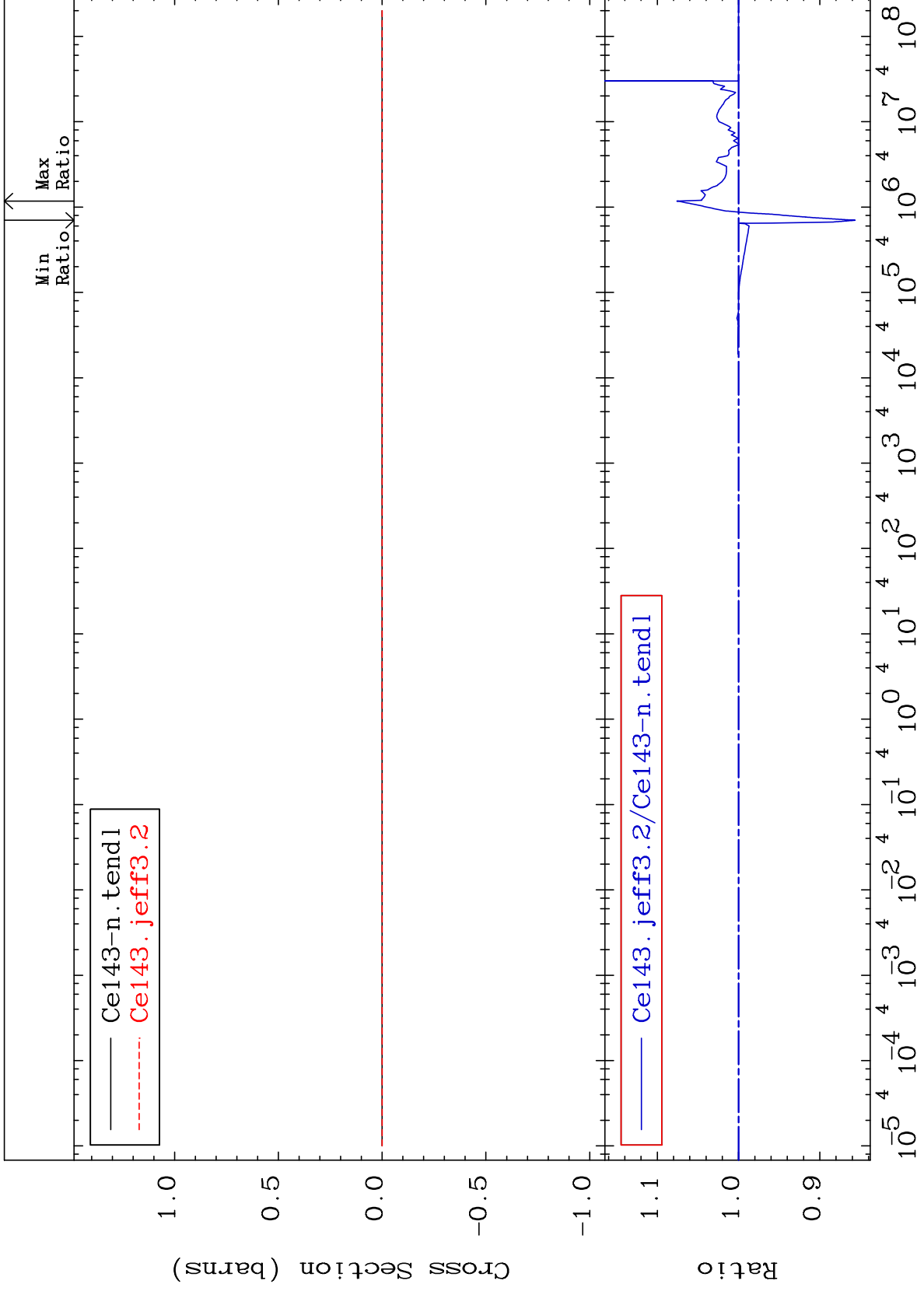


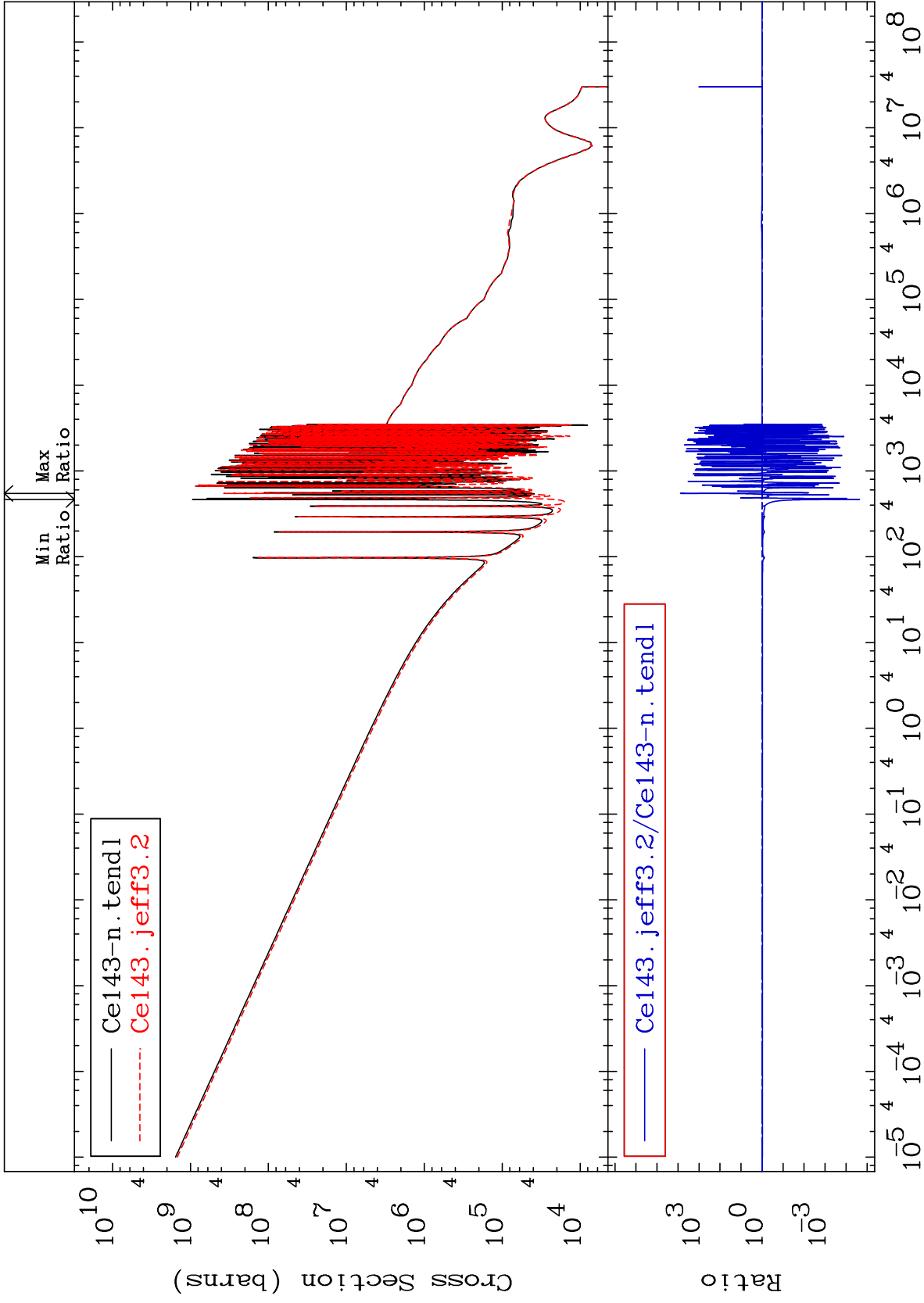


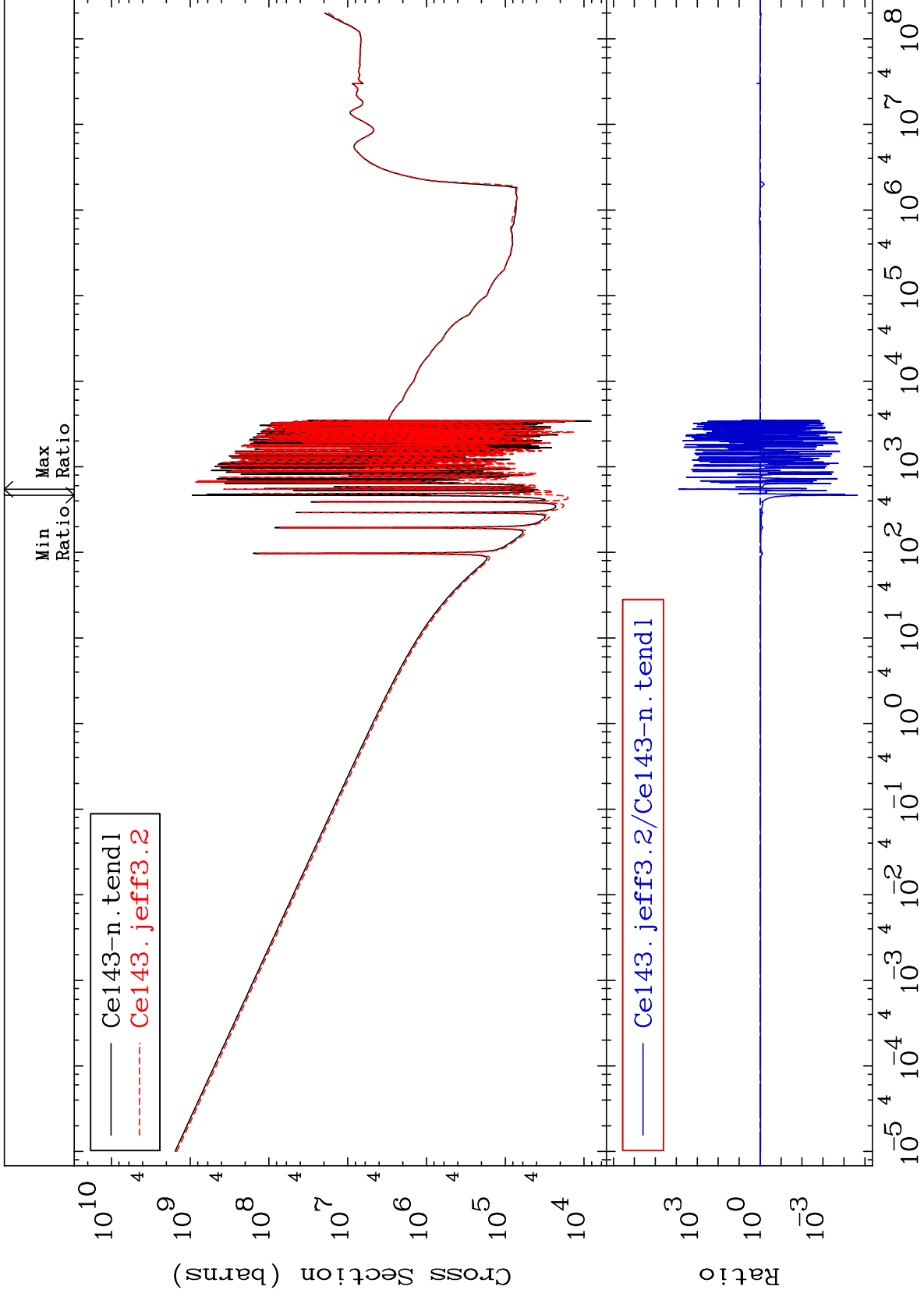
MAT 5846

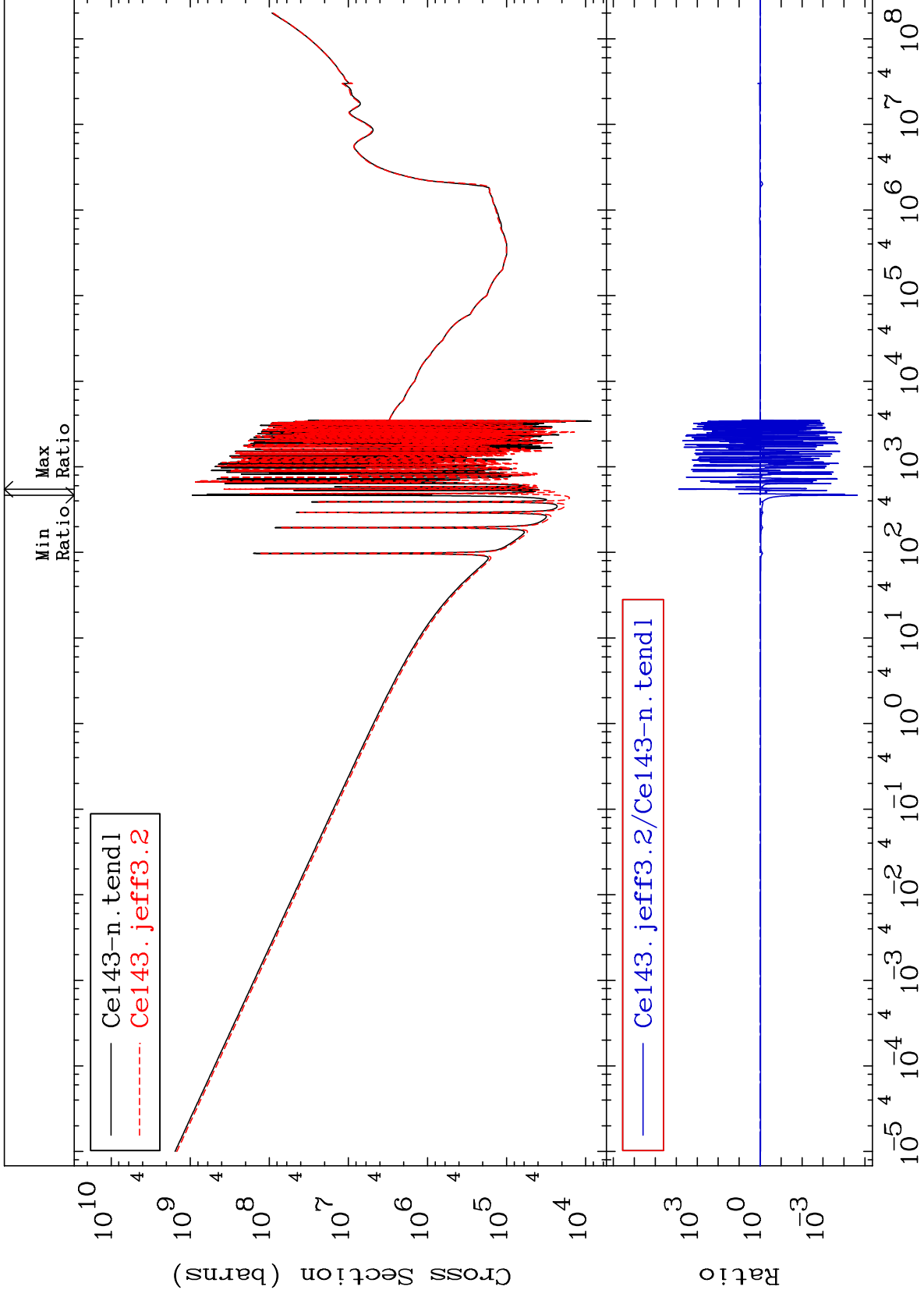
Kerma fission (mt18 or mt19-20-21-38)
Cross Section

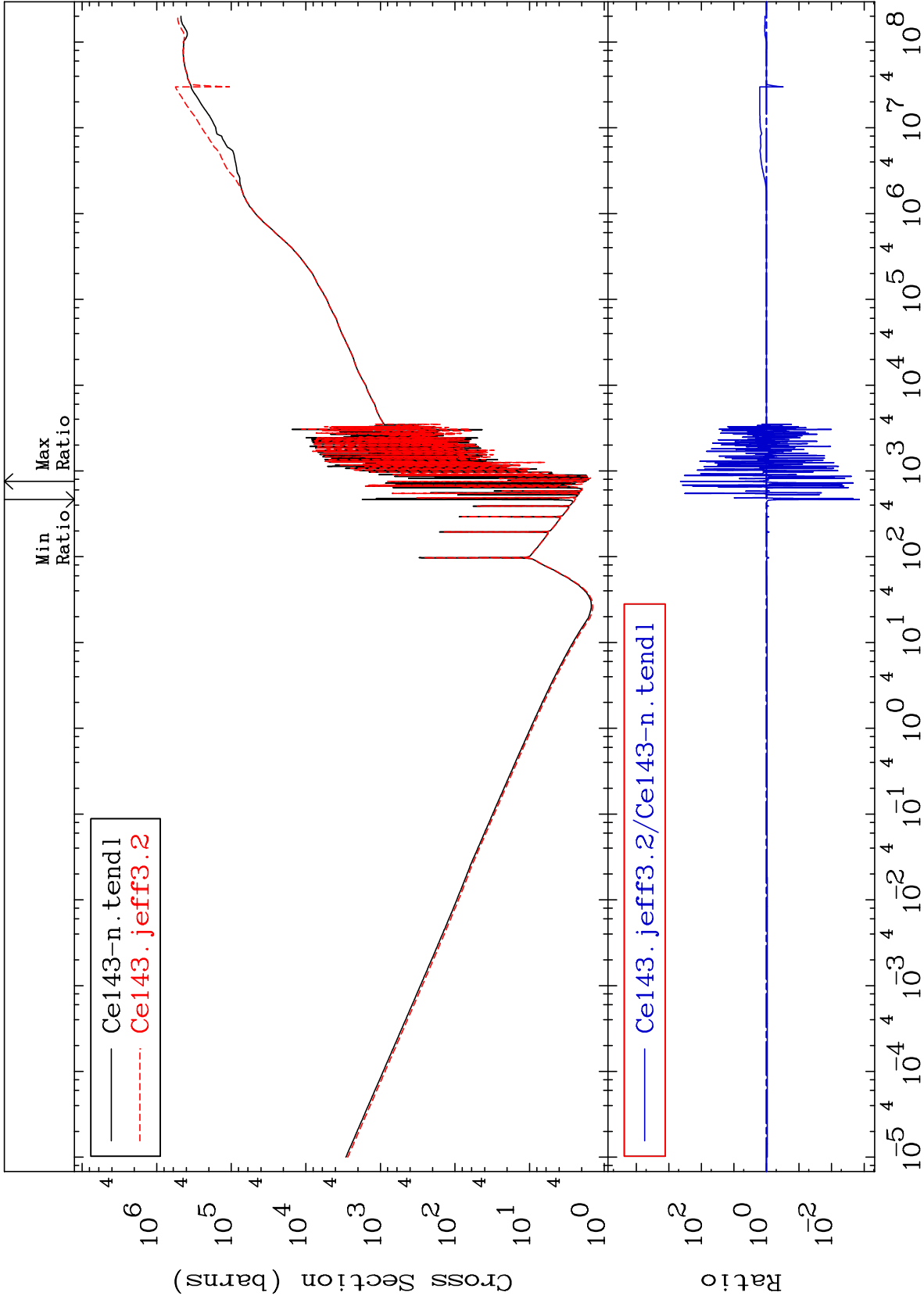
58-Ce-143
-14.34 To 7.589 %







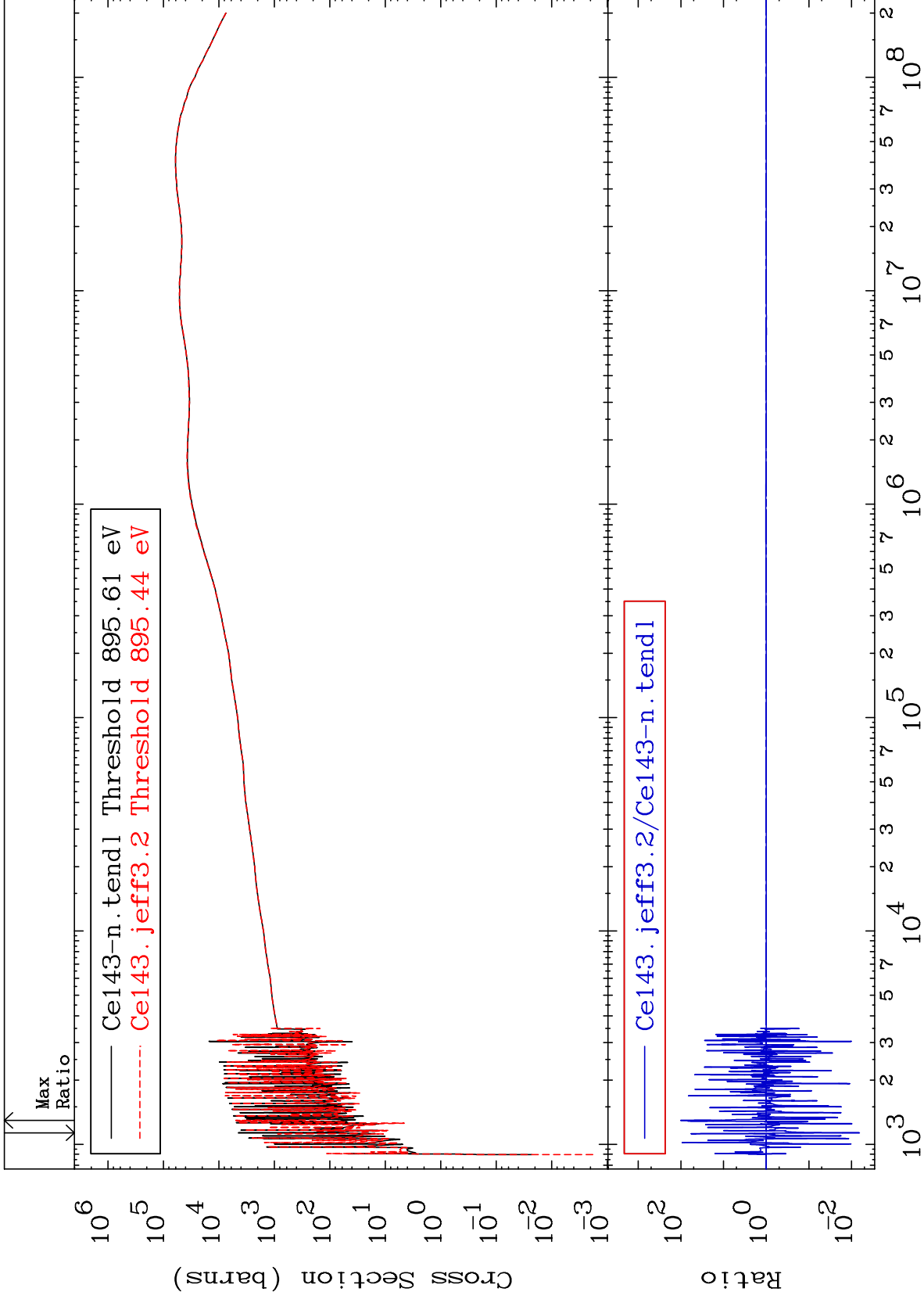




MAT 5846

Dpa elastic (mt2)
Cross Section

58-Ce-143
-99.34 To 9999. %



77

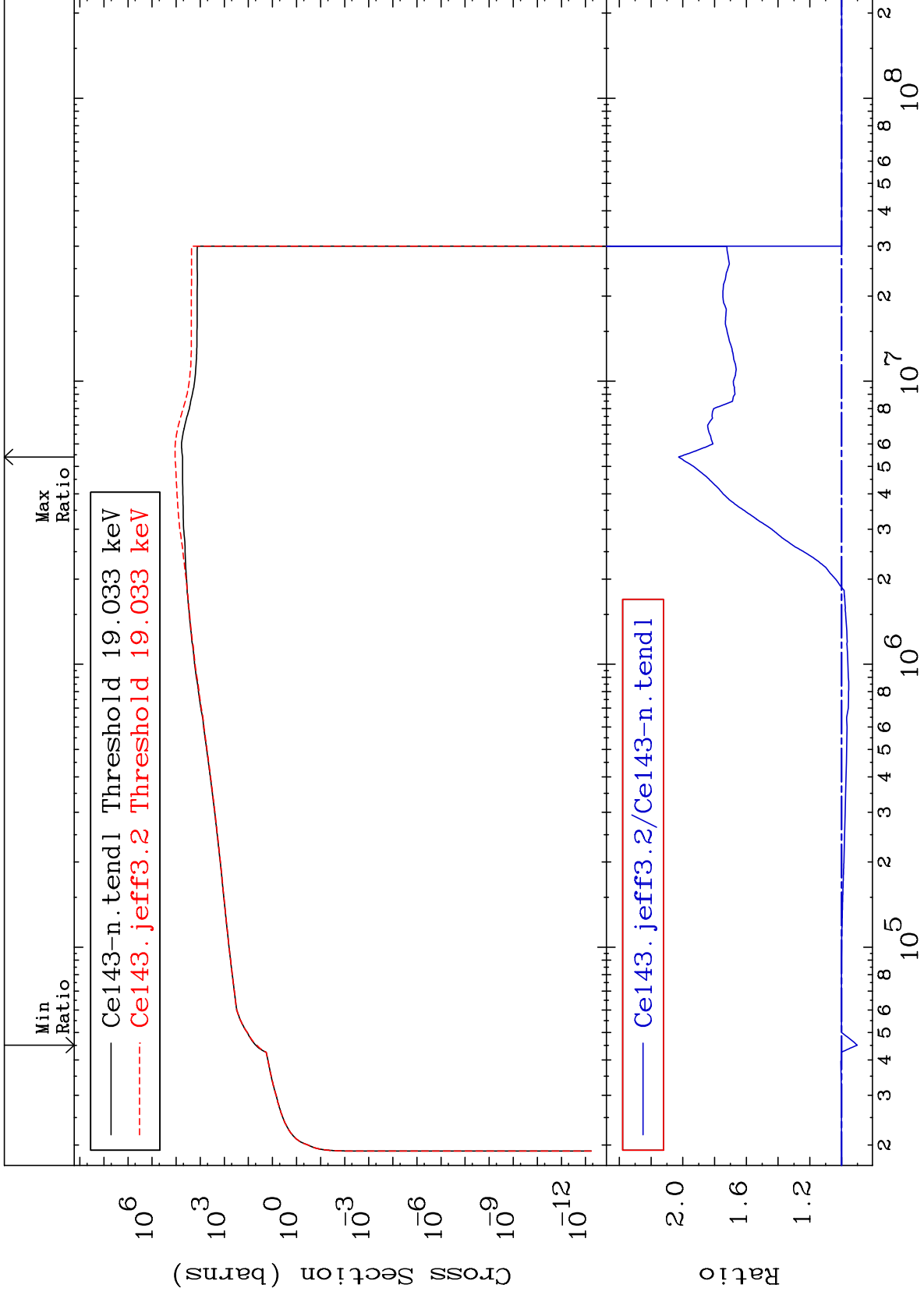
Incident Energy (eV)

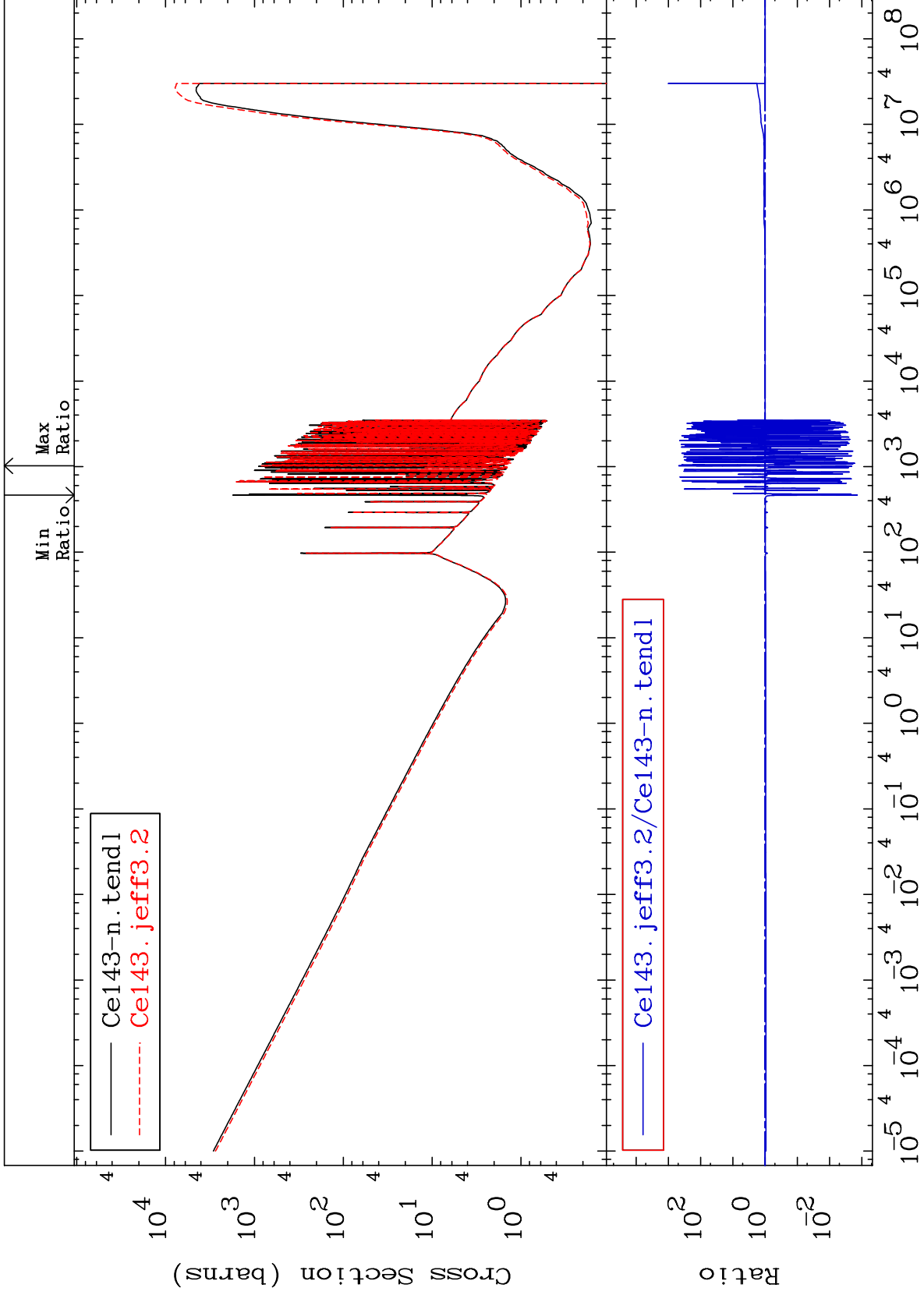
58-Ce-143

MAT 5846

Dpa inelastic (mt51-91)
Cross Section

58-Ce-143
-9.889 To 102.6 %



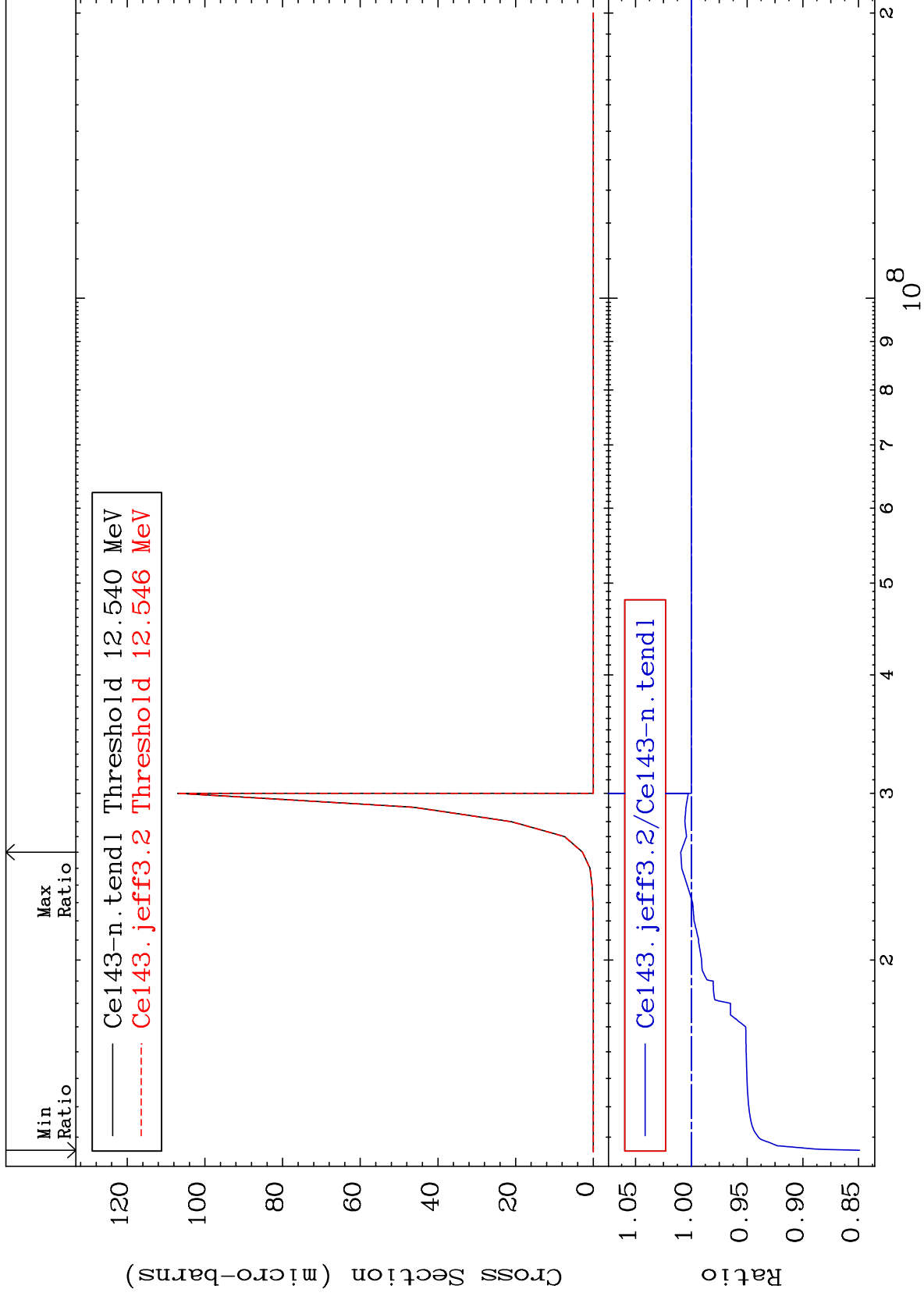


MAT 5846

(n,3n) α :56-Ba-137g

58-Ce-143

Radionuclide Production Cross Section -15.08 To 0.951 %



80

Incident Energy (eV)

58-Ce-143

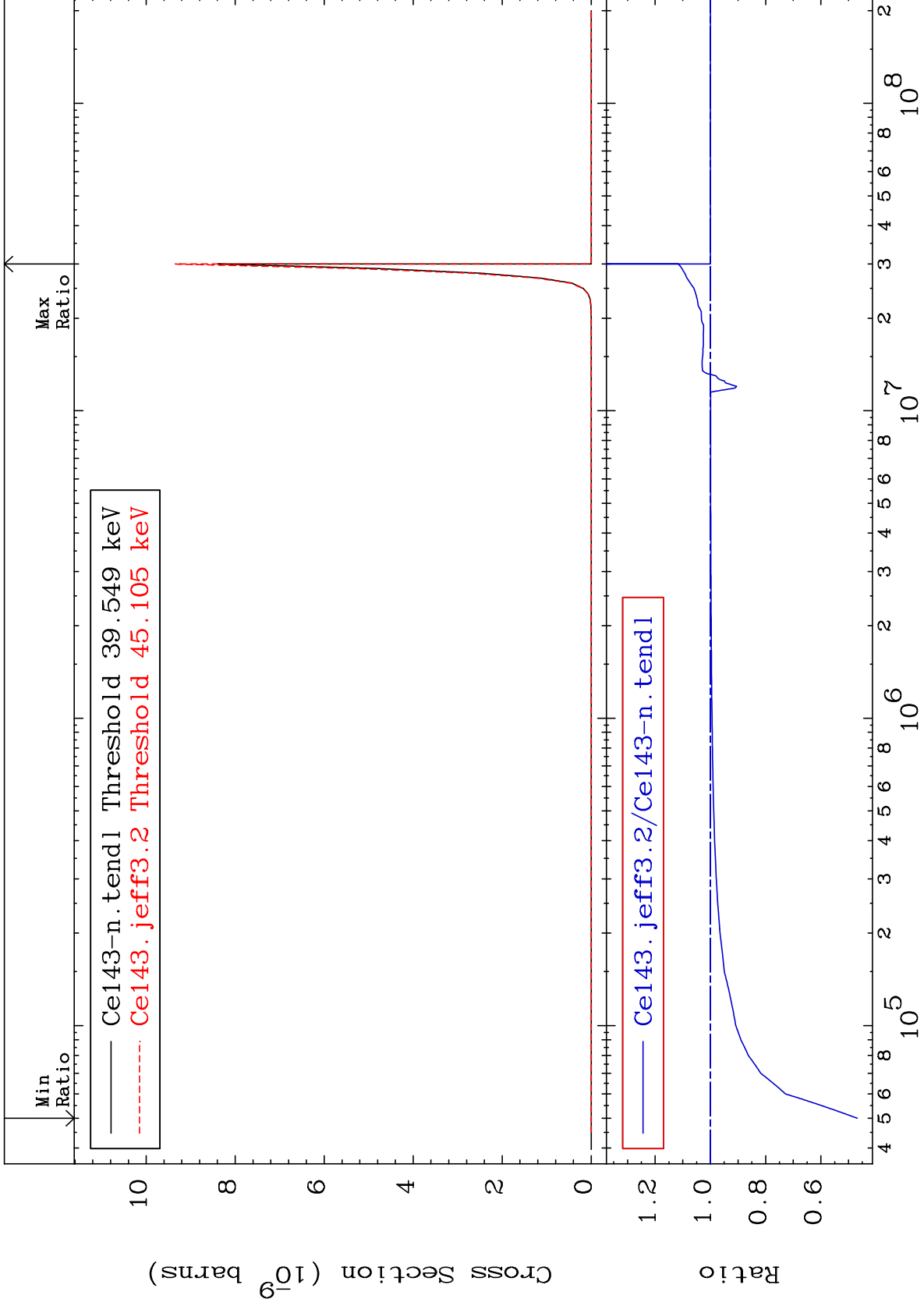
MAT 5846

(n, n') 2α:54-Xe-135g

58-Ce-143

Radionuclide Production Cross Section

-53.16 To 11.50 %

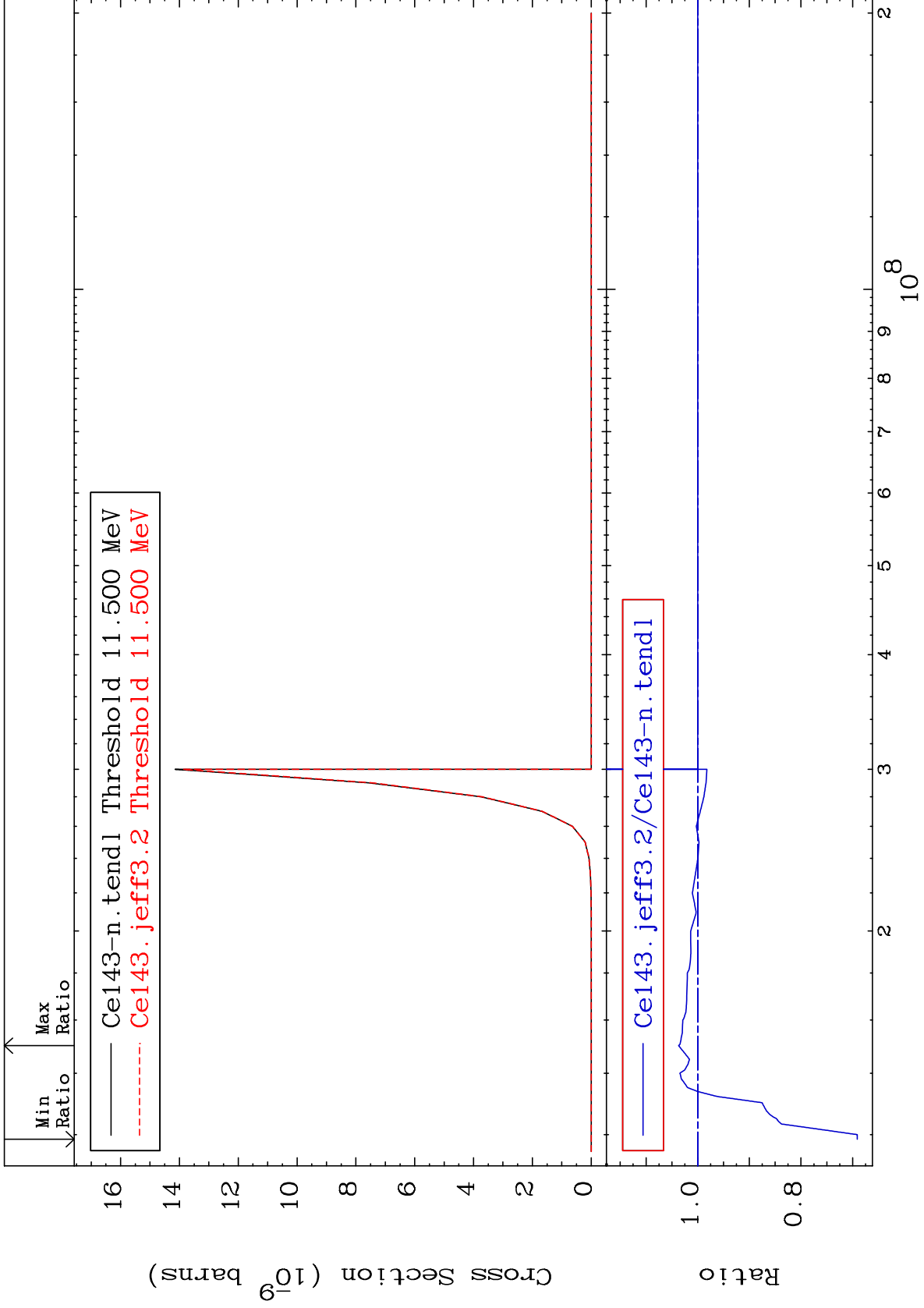


MAT 5846

(n, n') 2α :54-Xe-135m2

58-Ce-143

Radionuclide Production Cross Section -30.89 To 3.690 %



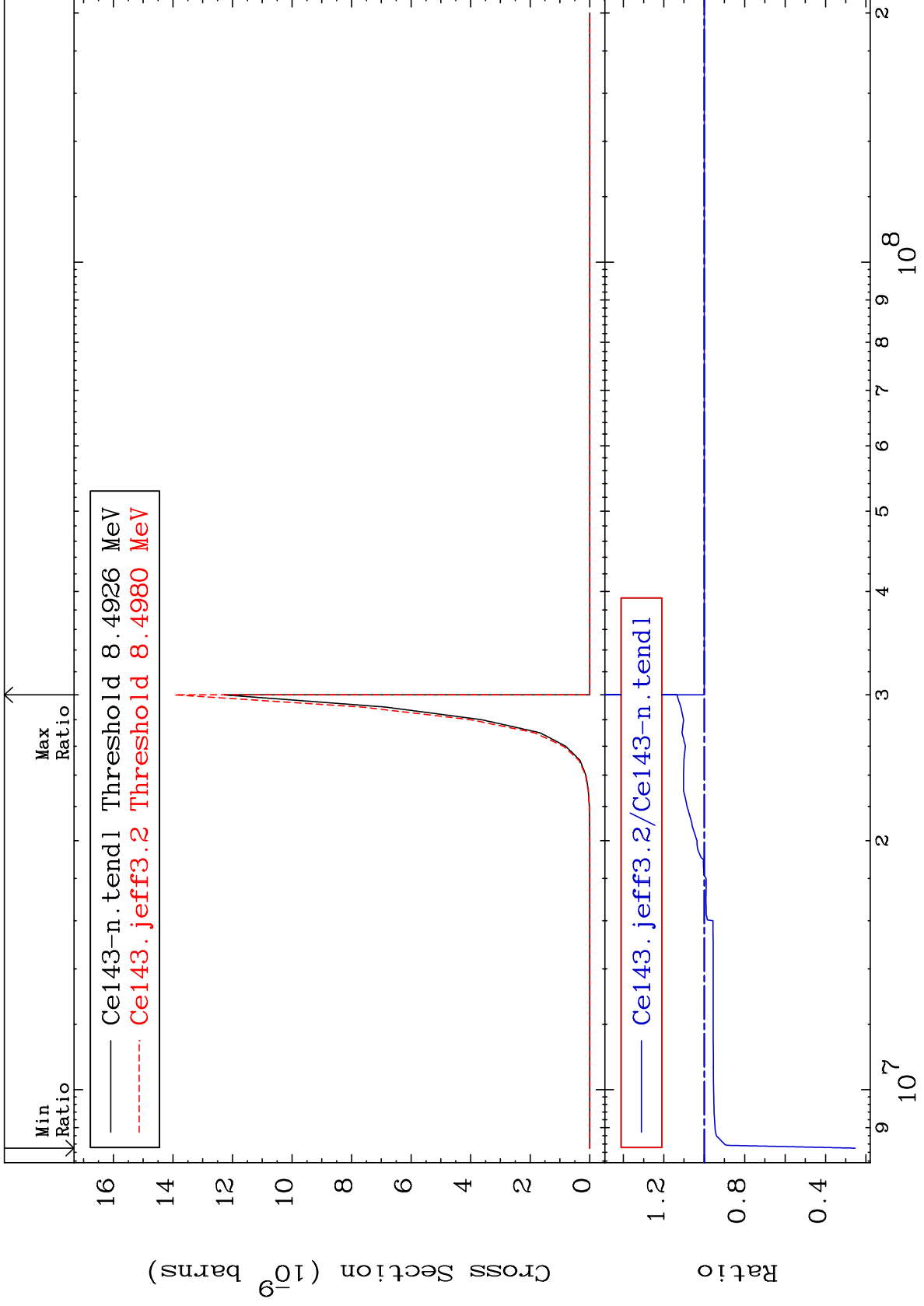
83

Incident Energy (eV)

58-Ce-143

MAT 5846

(n, n') p α :55-Cs-138g 58-Ce-143
Radionuclide Production Cross Section -74.62 To 13.52 %



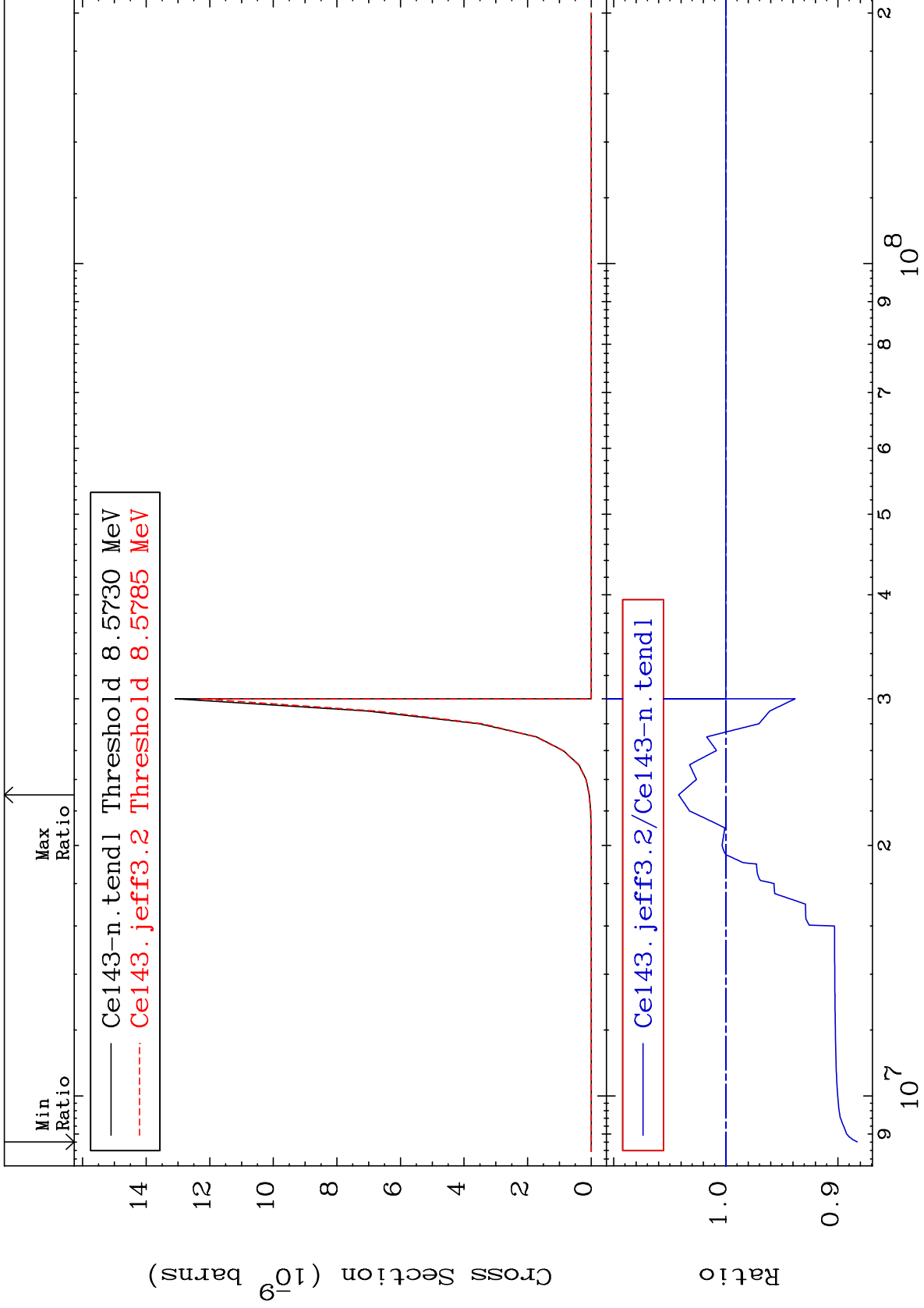
84

Incident Energy (eV)

58-Ce-143

MAT 5846

(n, n') p α :55-Cs-138m3 58-Ce-143
Radionuclide Production Cross Section -11.73 To 4.211 %



85

Incident Energy (eV)

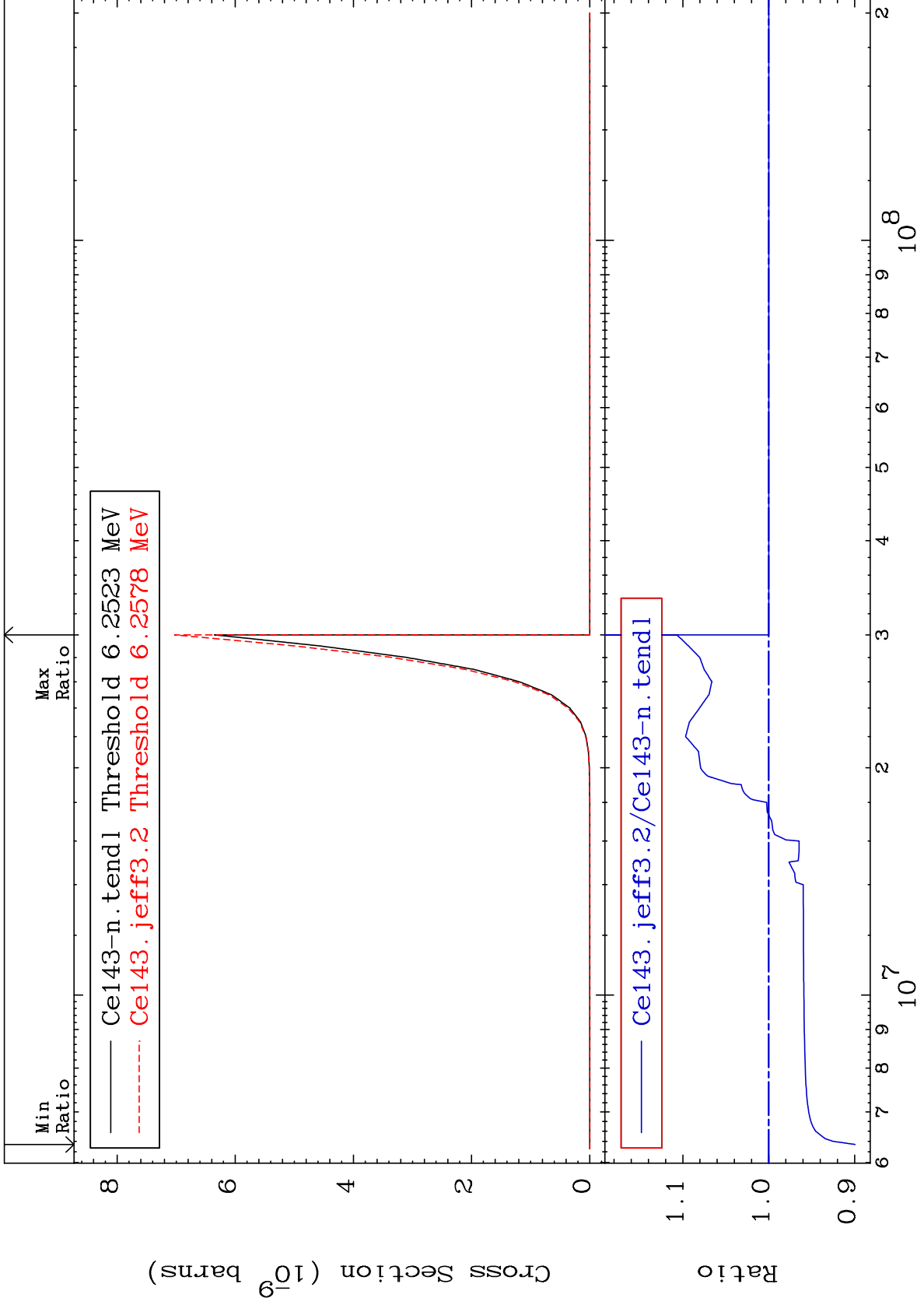
58-Ce-143

MAT 5846

(n, d) α :55-Cs-138g

58-Ce-143

Radionuclide Production Cross Section -10.06 To 10.68 %



86

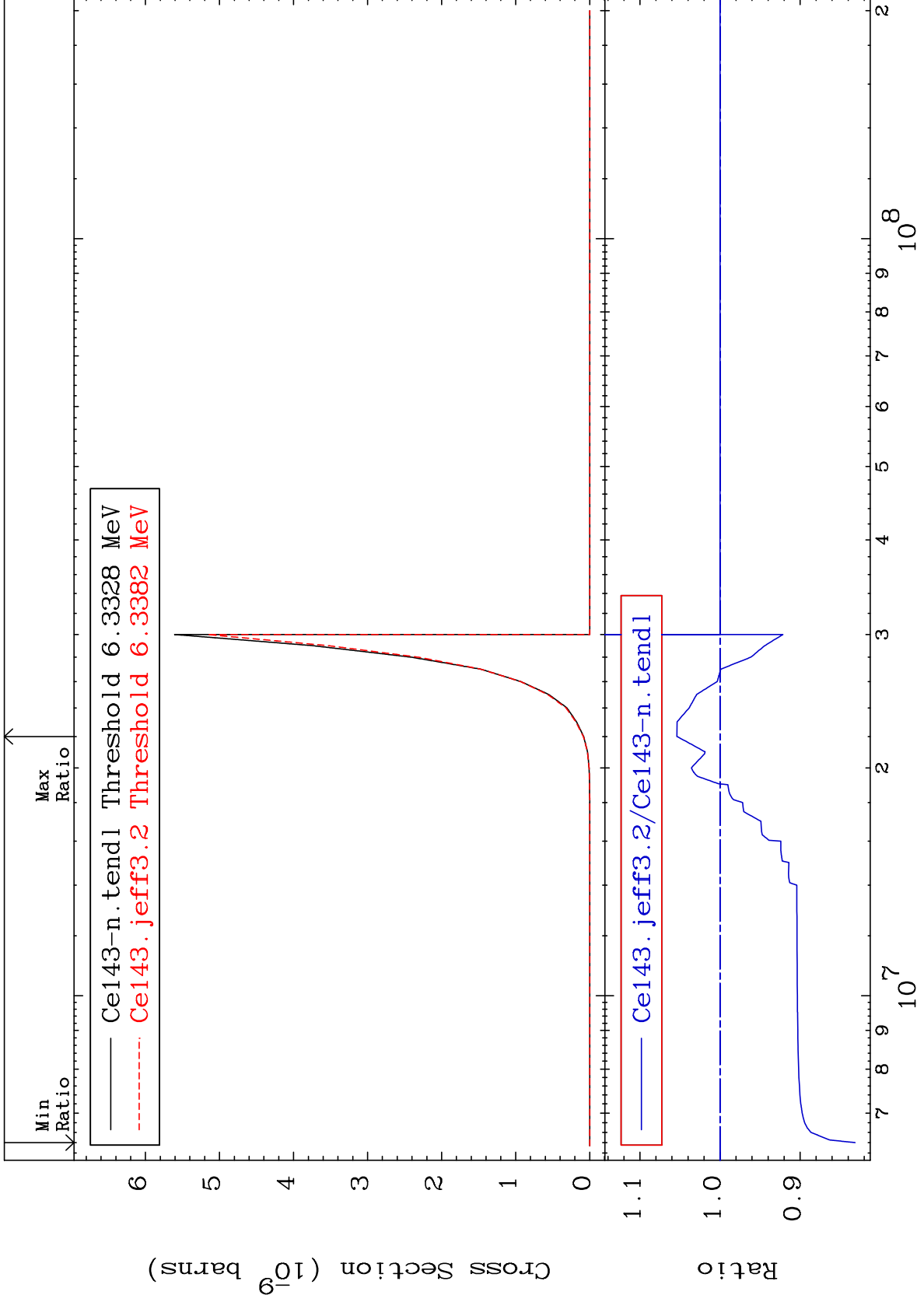
58-Ce-143

MAT 5846

(n, d) α :55-Cs-138m3

58-Ce-143

Radionuclide Production Cross Section -16.87 To 5.381 %



87

Incident Energy (eV)

58-Ce-143