

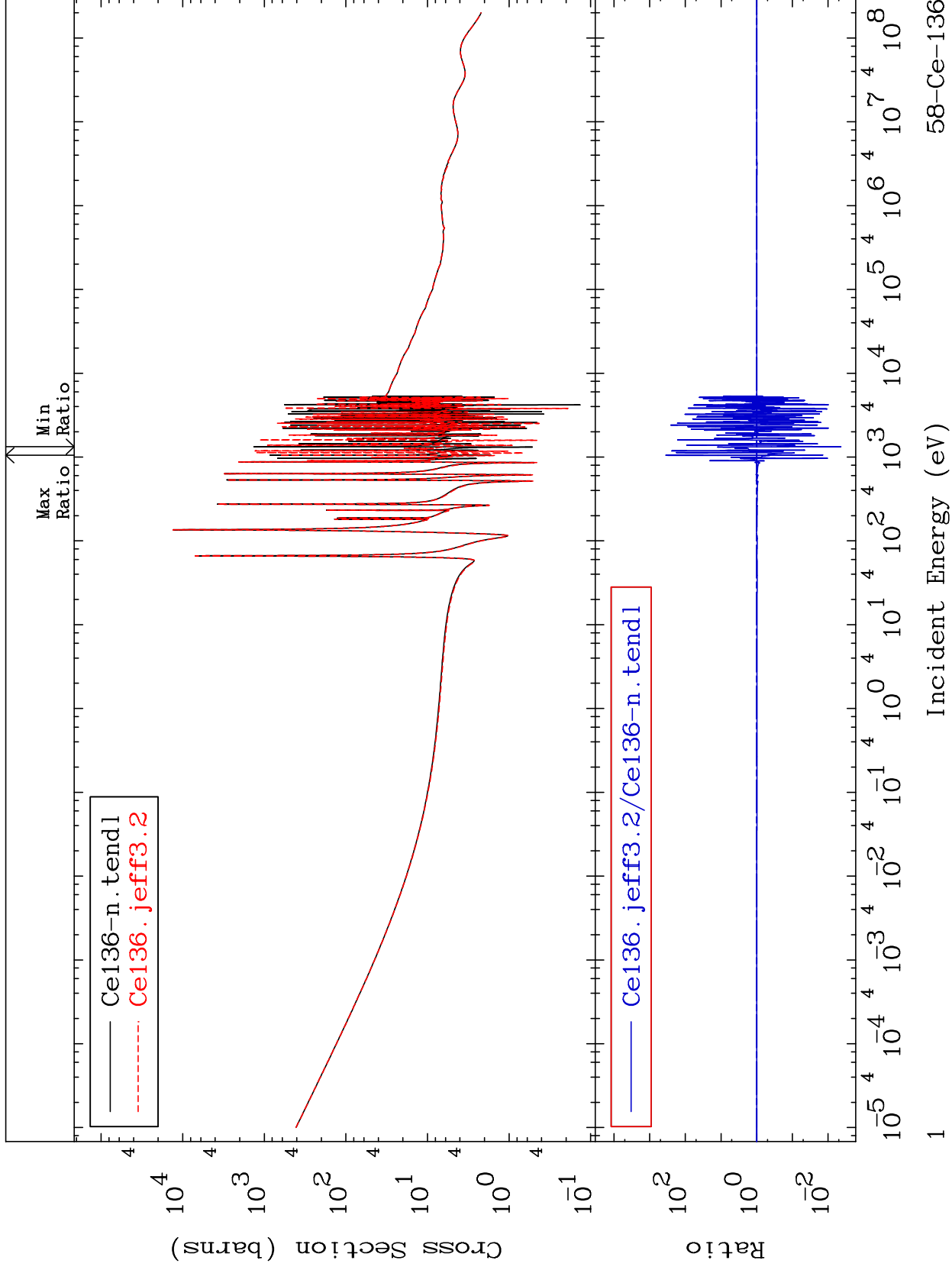
MAT 5825

Total

58-Ce-136

Cross Section

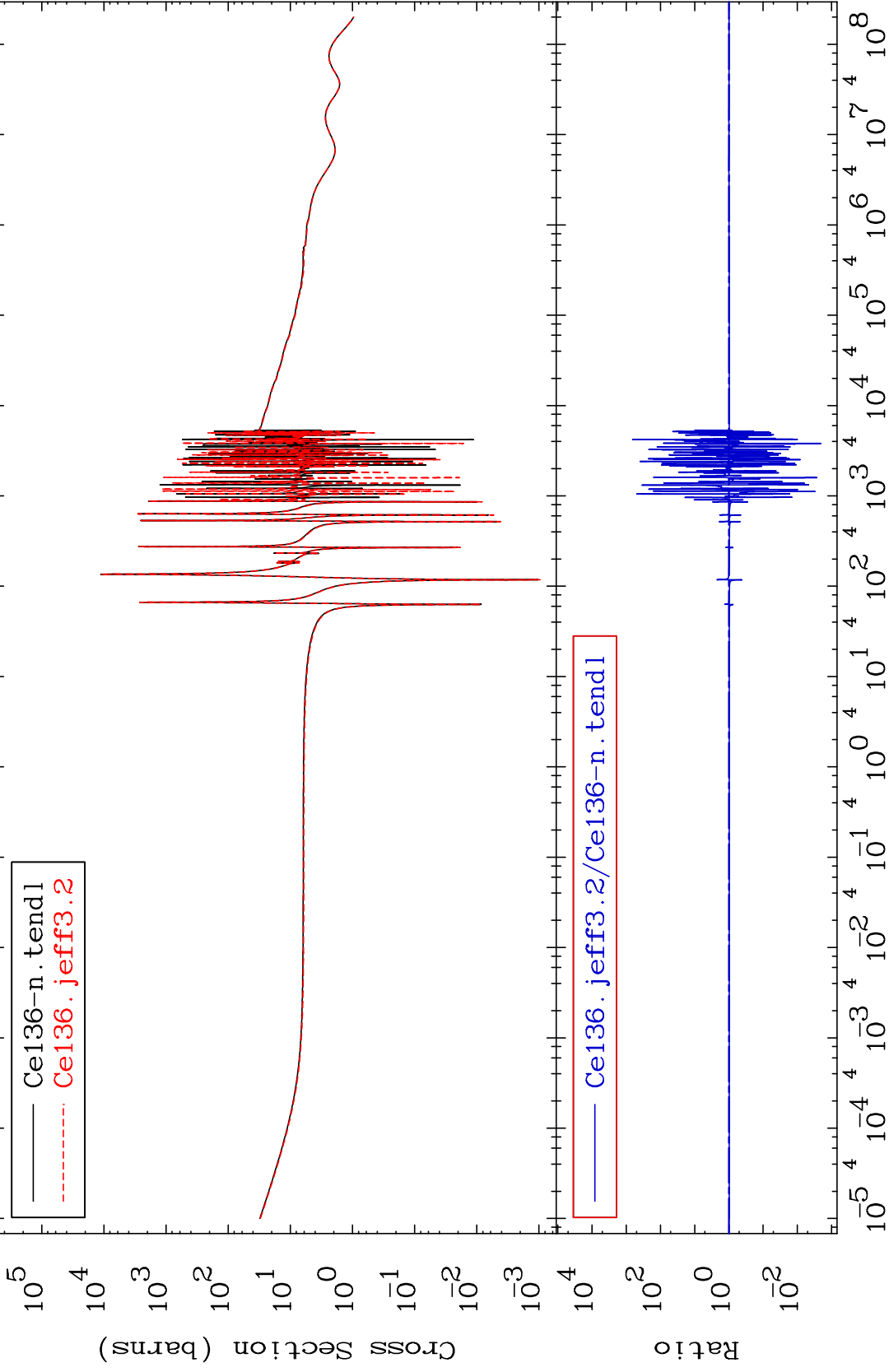
-99.56 To 9999. %



MAT 5825

Elastic
Cross Section

58-Ce-136
-99.80 To 9999. %



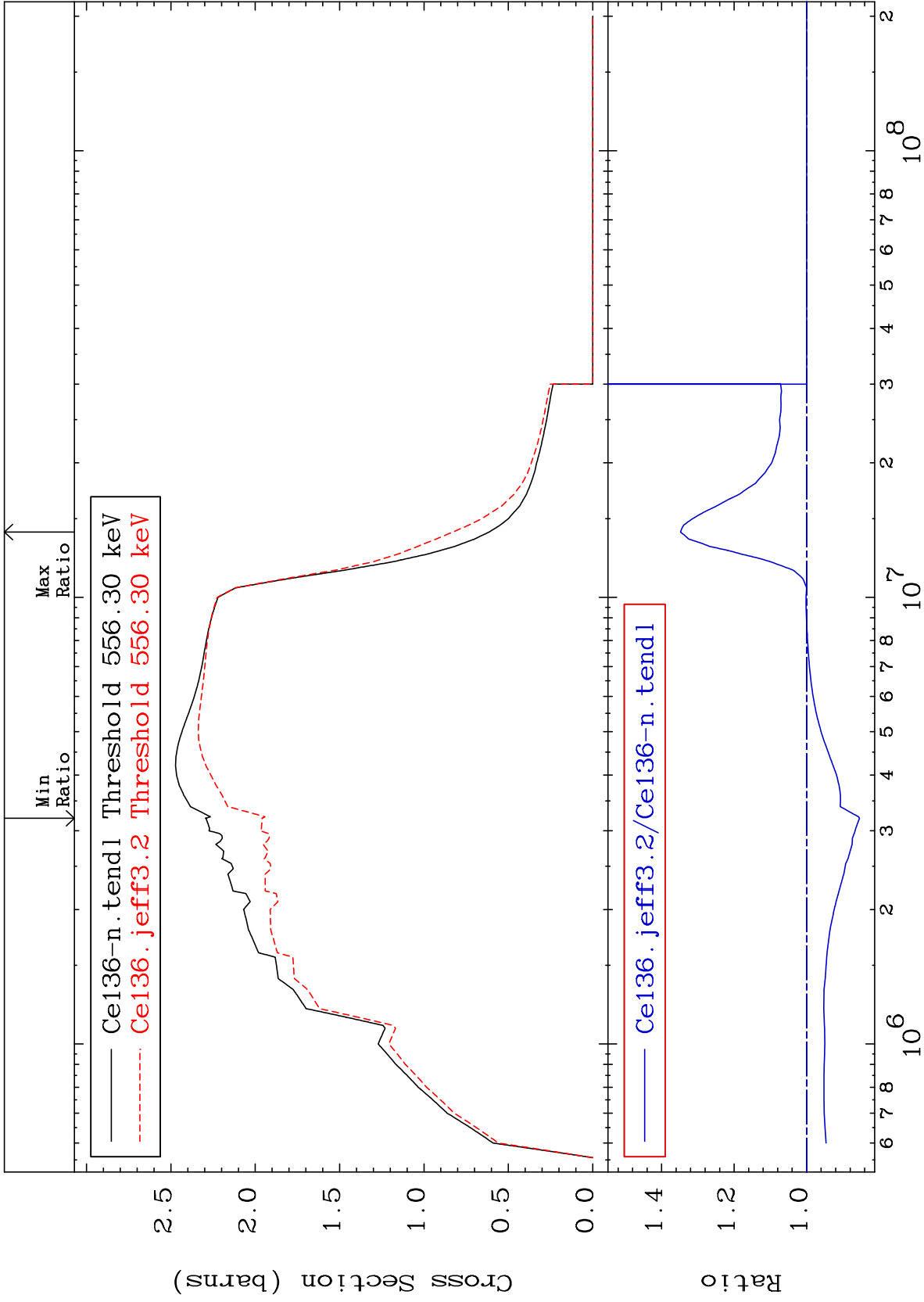
2

Incident Energy (eV)

58-Ce-136

MAT 5825

Inelastic Cross Section
58-Ce-136
-14.56 To 34.83 %



3

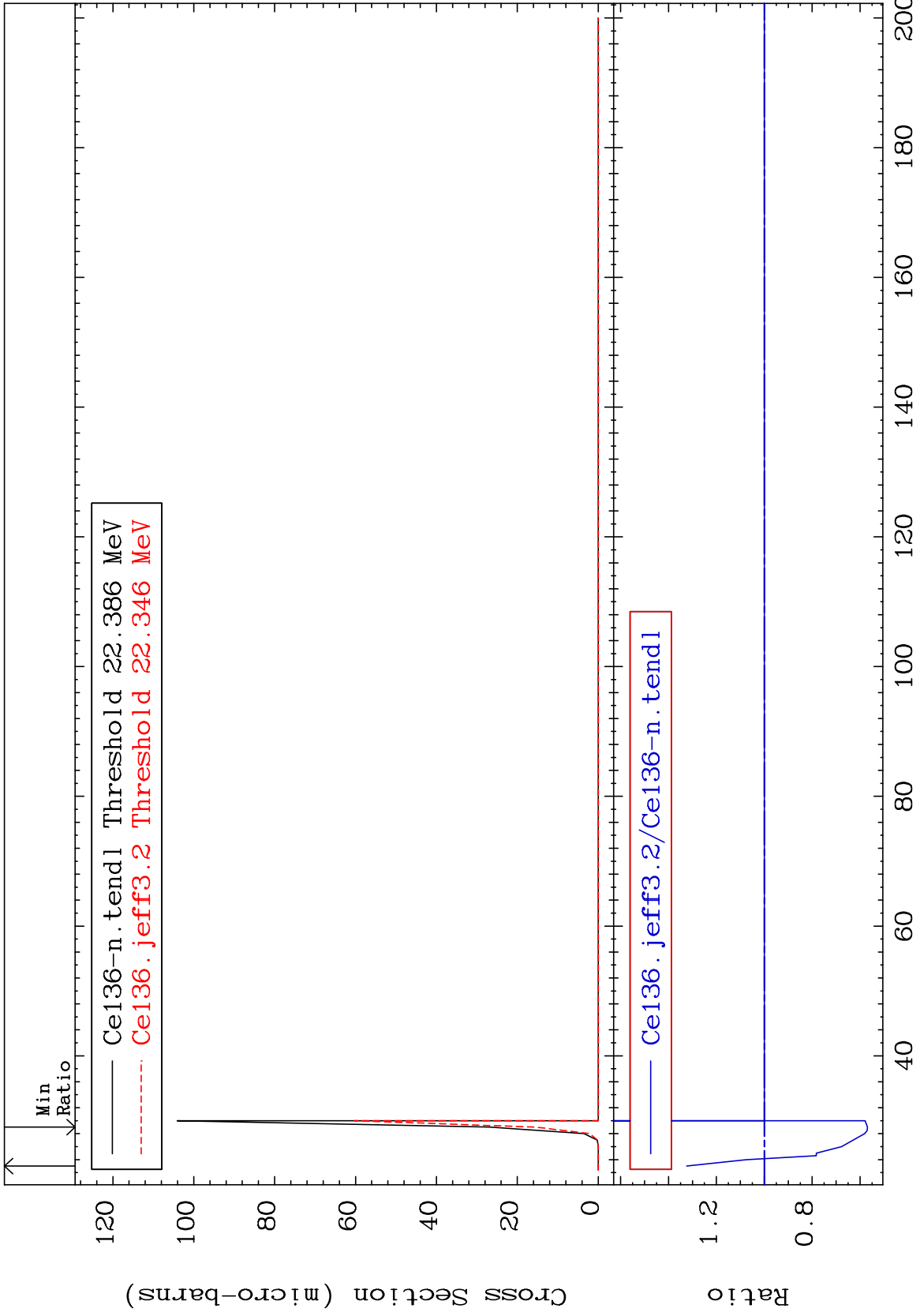
Incident Energy (eV)

58-Ce-136

MAT 5825

(n,2n) d
Cross Section

58-Ce-136
-43.07 To 32.41 %



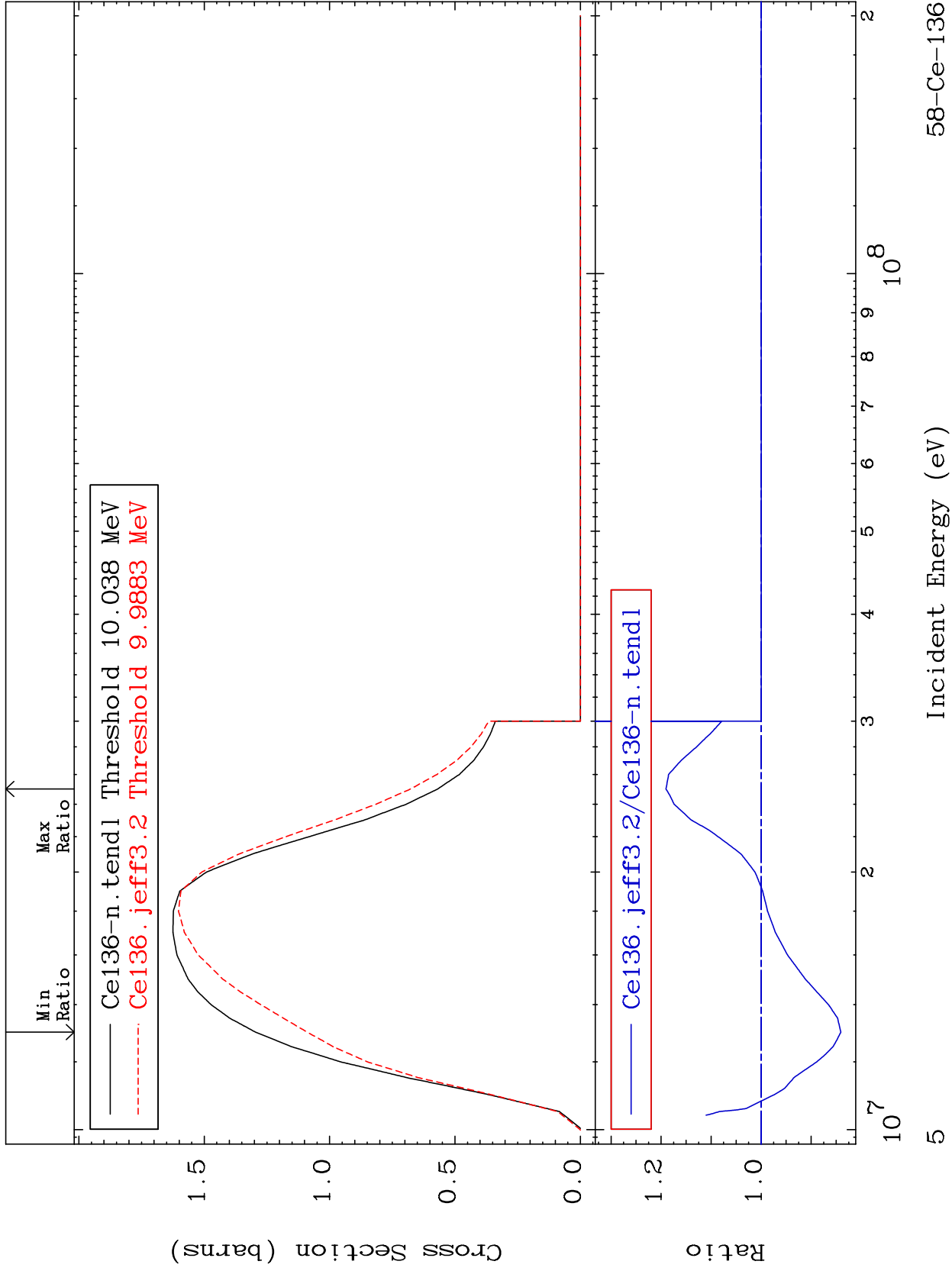
MAT 5825

(n,2n)

58-Ce-136

Cross Section

-15.93 To 19.03 %



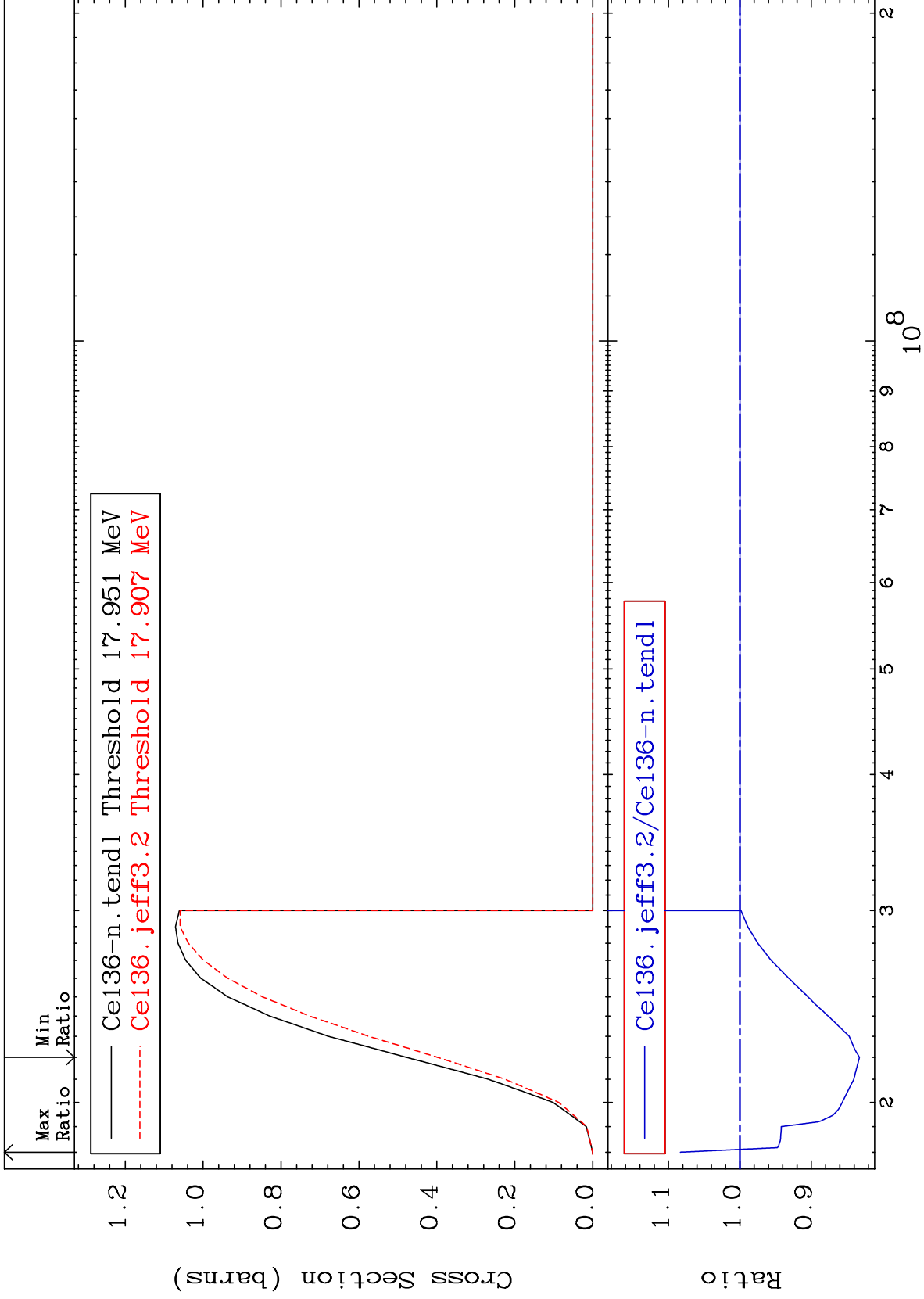
Incident Energy (eV)

58-Ce-136

MAT 5825

(n,3n)
Cross Section

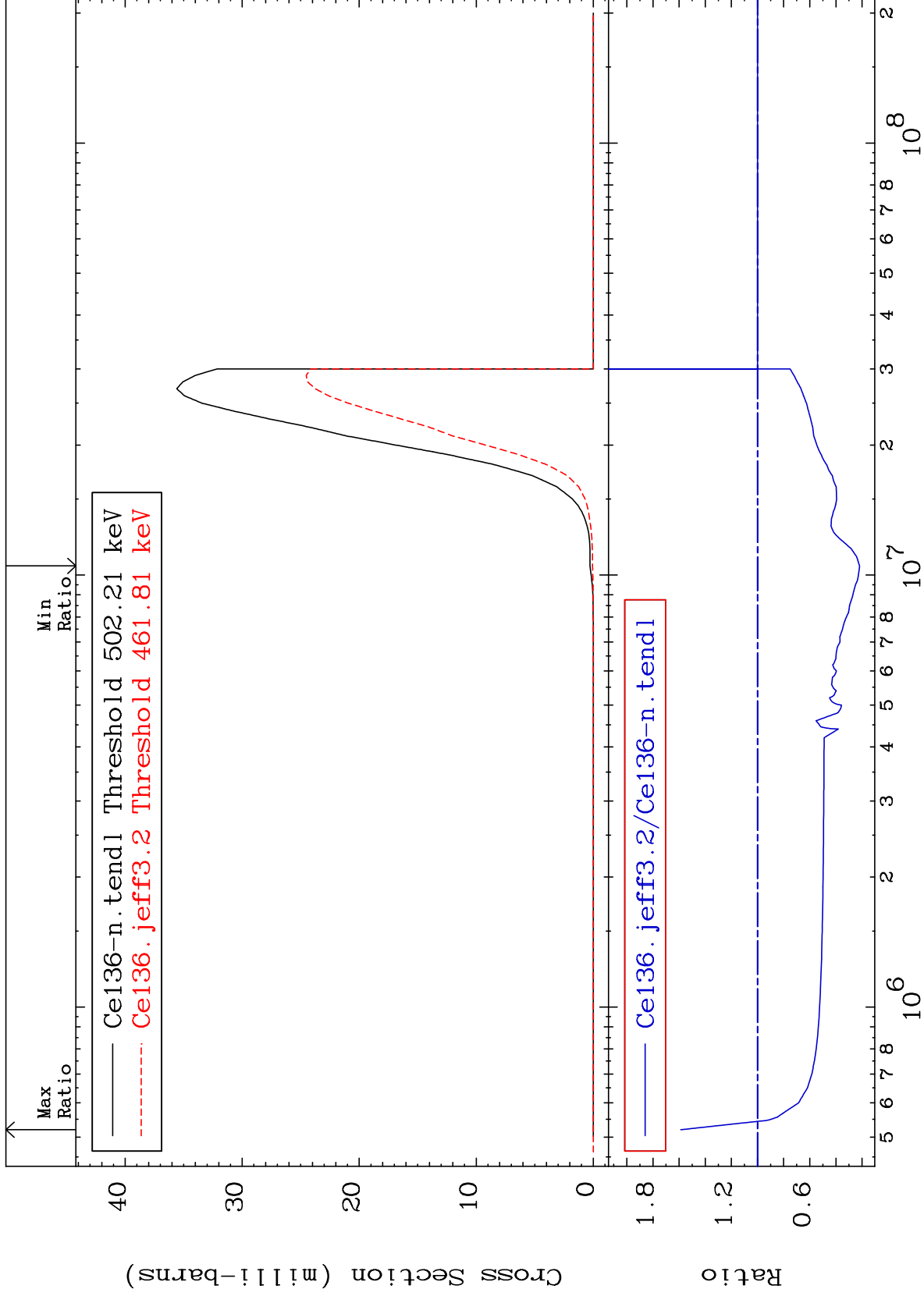
58-Ce-136
-16.73 To 8.331 %



MAT 5825

(n, n') α
Cross Section

58-Ce-136
-78.07 To 58.73 %



7

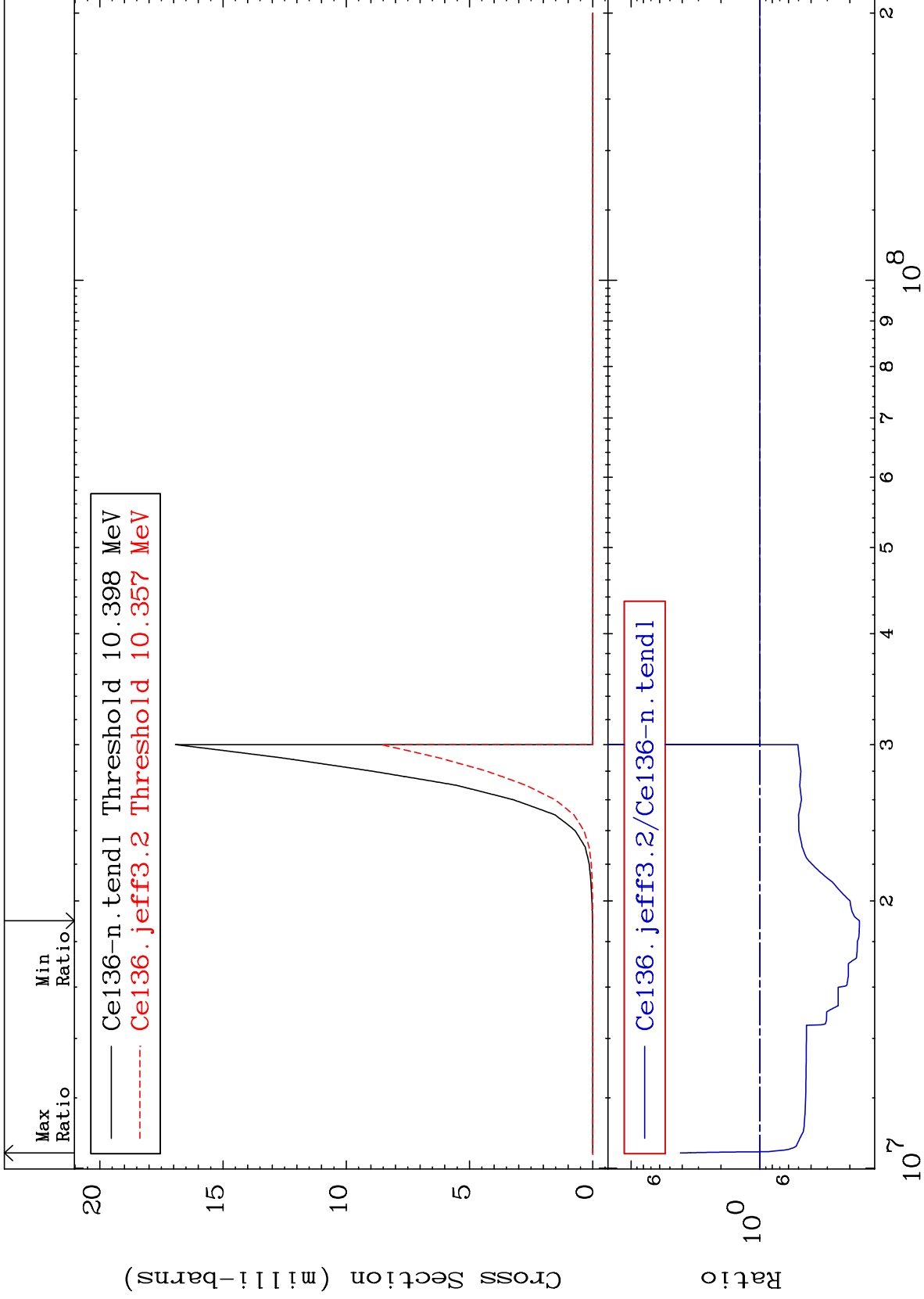
58-Ce-136

58-Ce-136

MAT 5825

(n,2n) α
Cross Section

58-Ce-136
-83.13 To 313.9 %

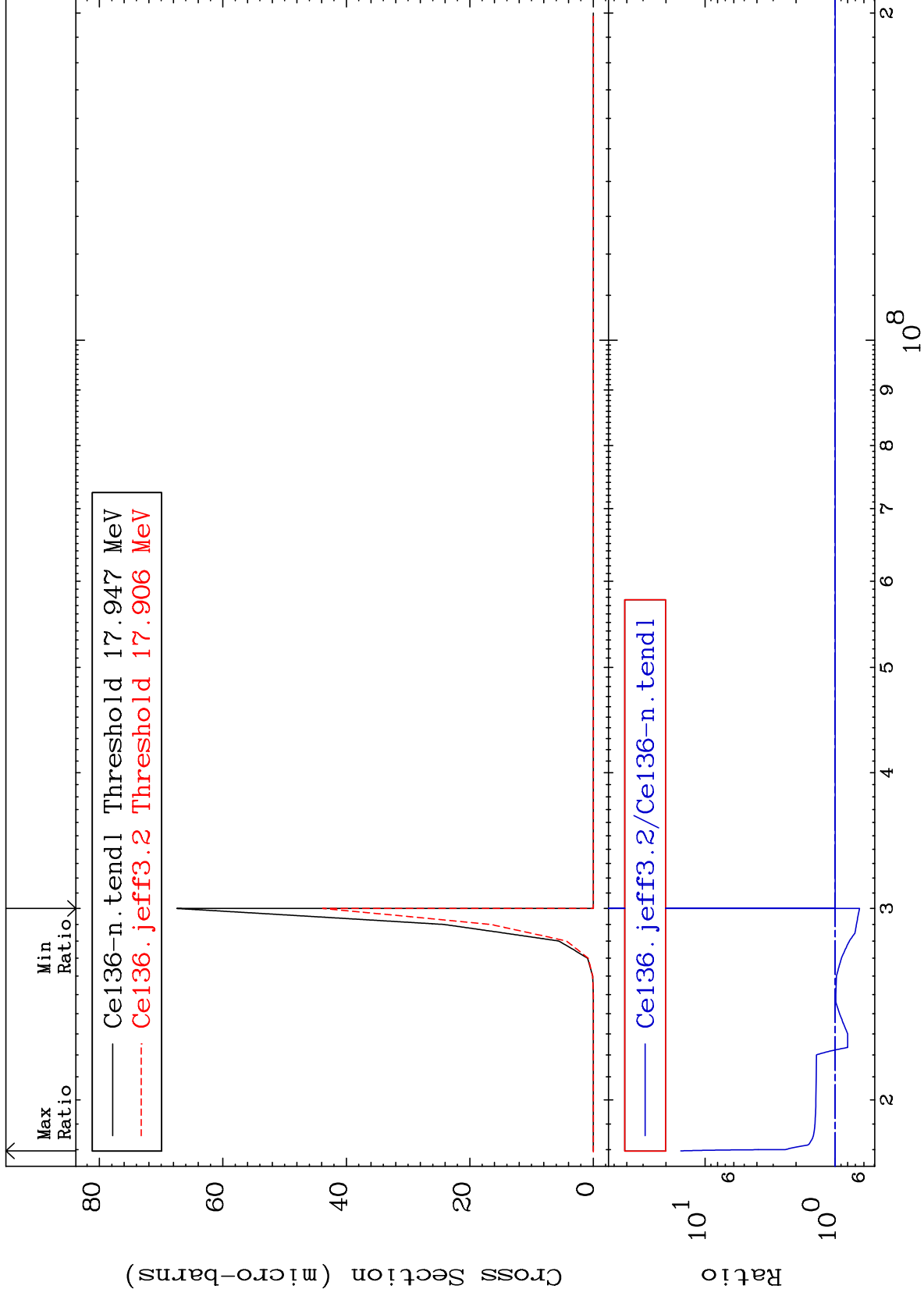


58-Ce-136

MAT 5825

(n,3n) α
Cross Section

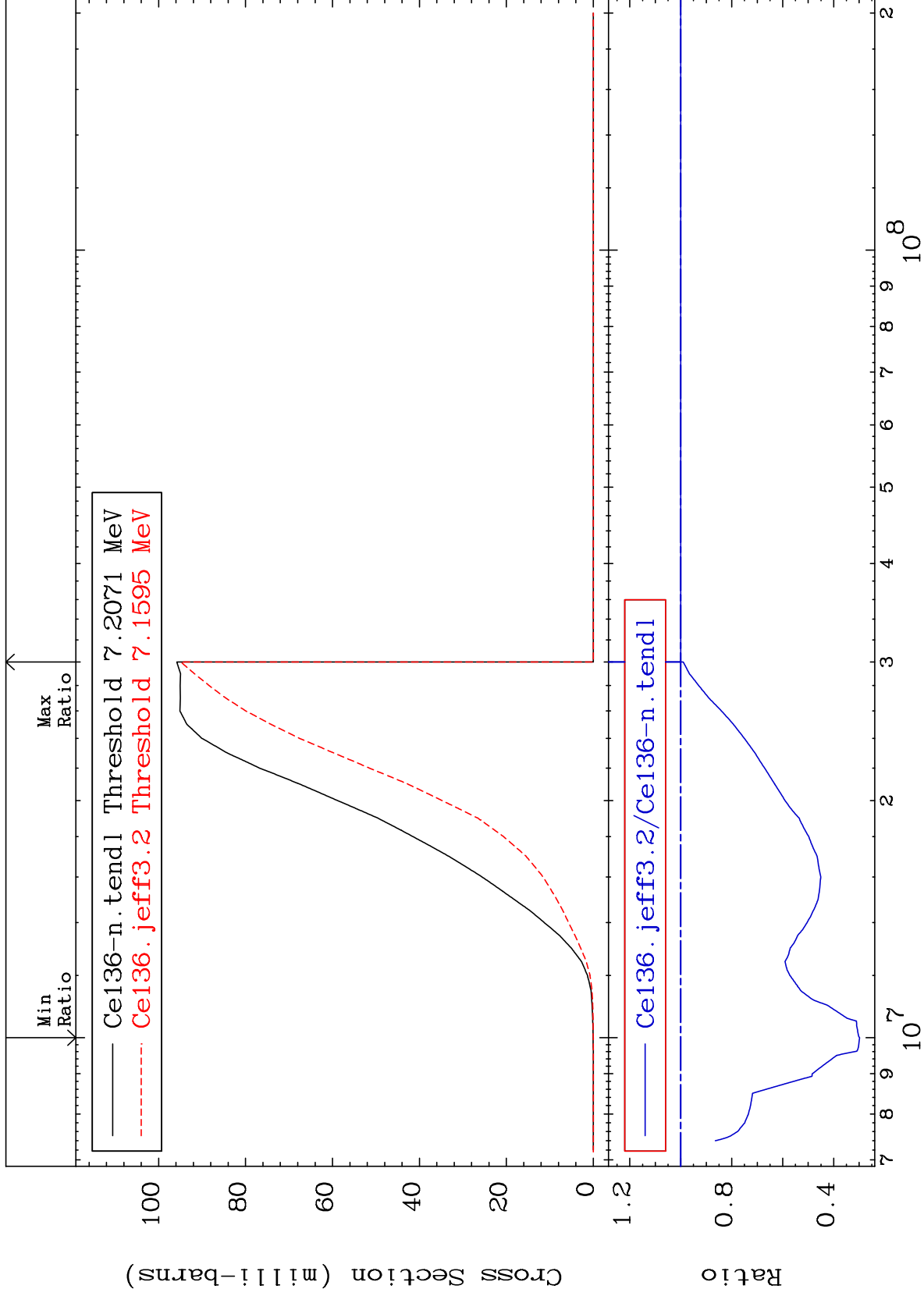
58-Ce-136
-35.06 To 1437. %



MAT 5825

(n,n') p
Cross Section

58-Ce-136
-70.14 To 0.000 %



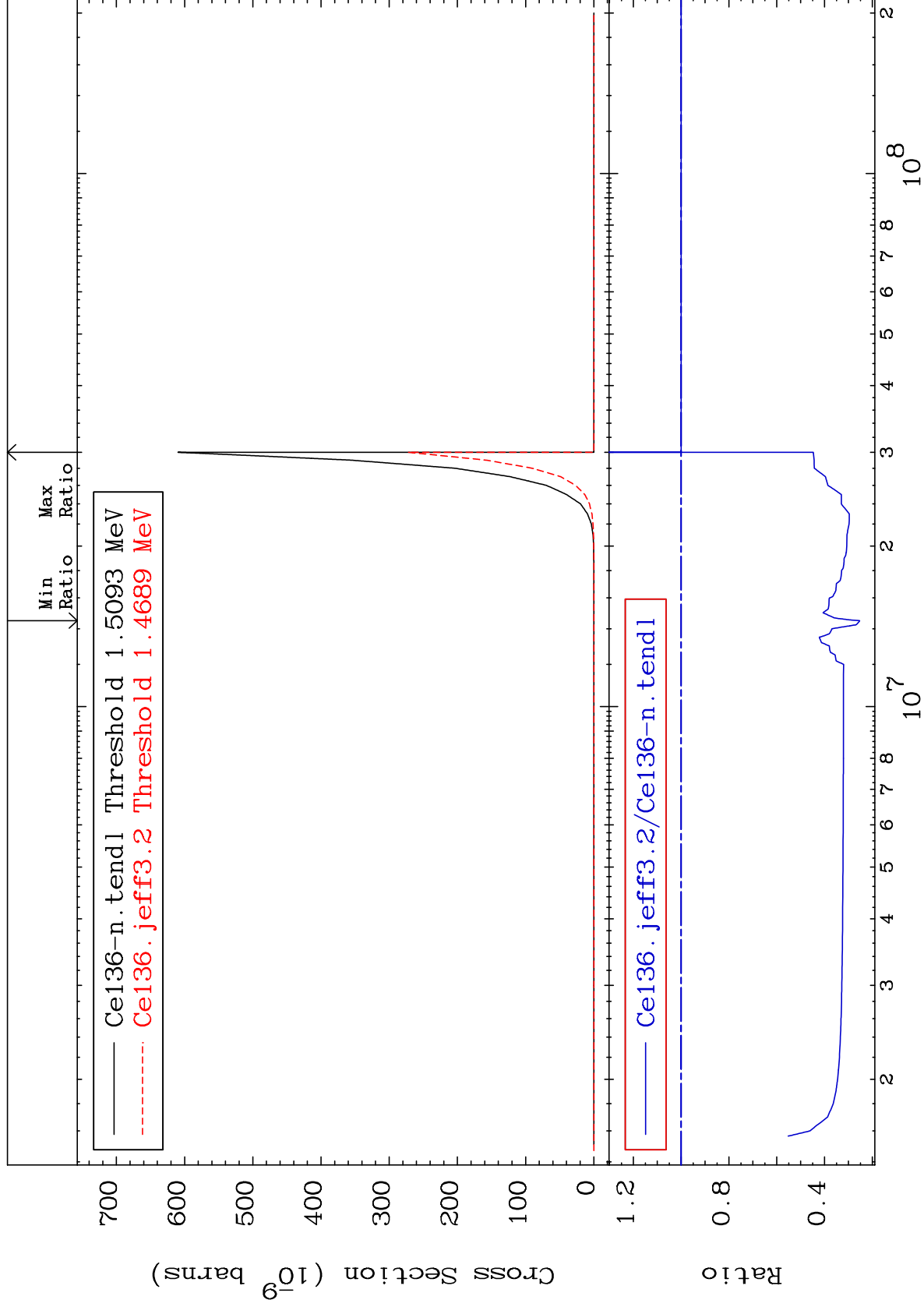
10

Incident Energy (eV)

58-Ce-136

MAT 5825

(n, n') 2α
Cross Section
58-Ce-136
-74.68 To 0.000 %



11

Incident Energy (eV)

58-Ce-136

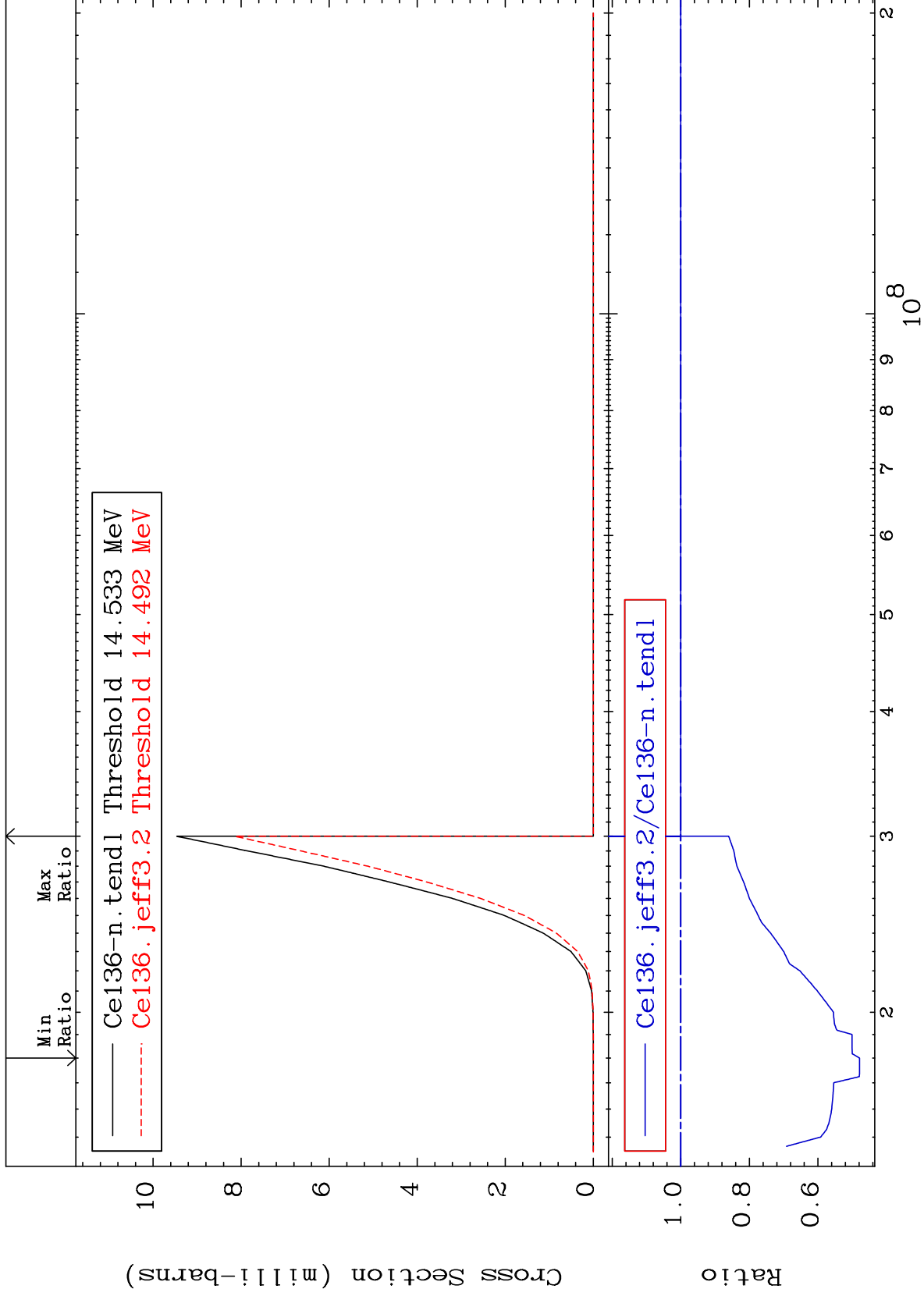
MAT 5825

(n,n') d

58-Ce-136

Cross Section

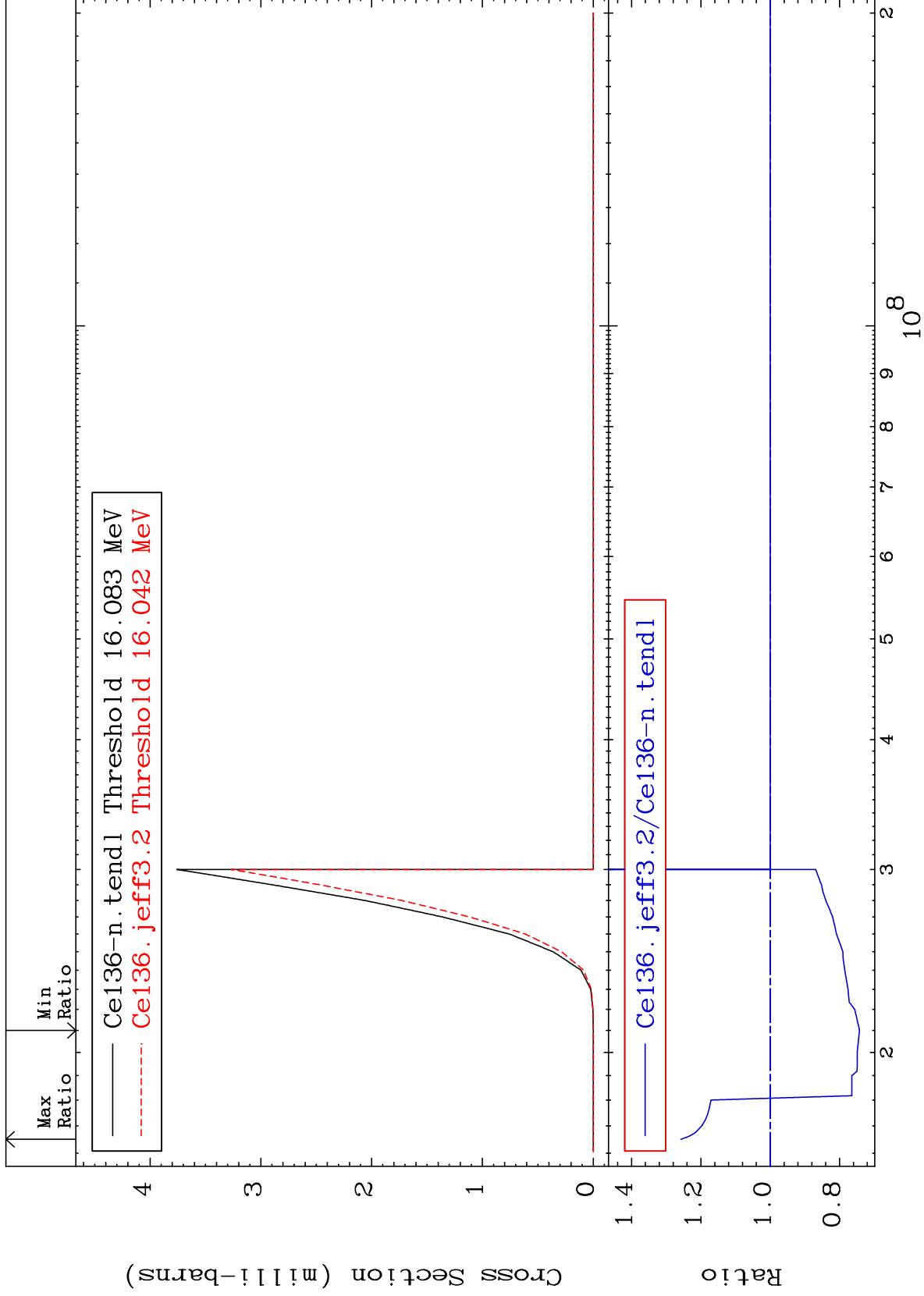
-52.11 To 0.000 %



MAT 5825

(n,n') t
Cross Section

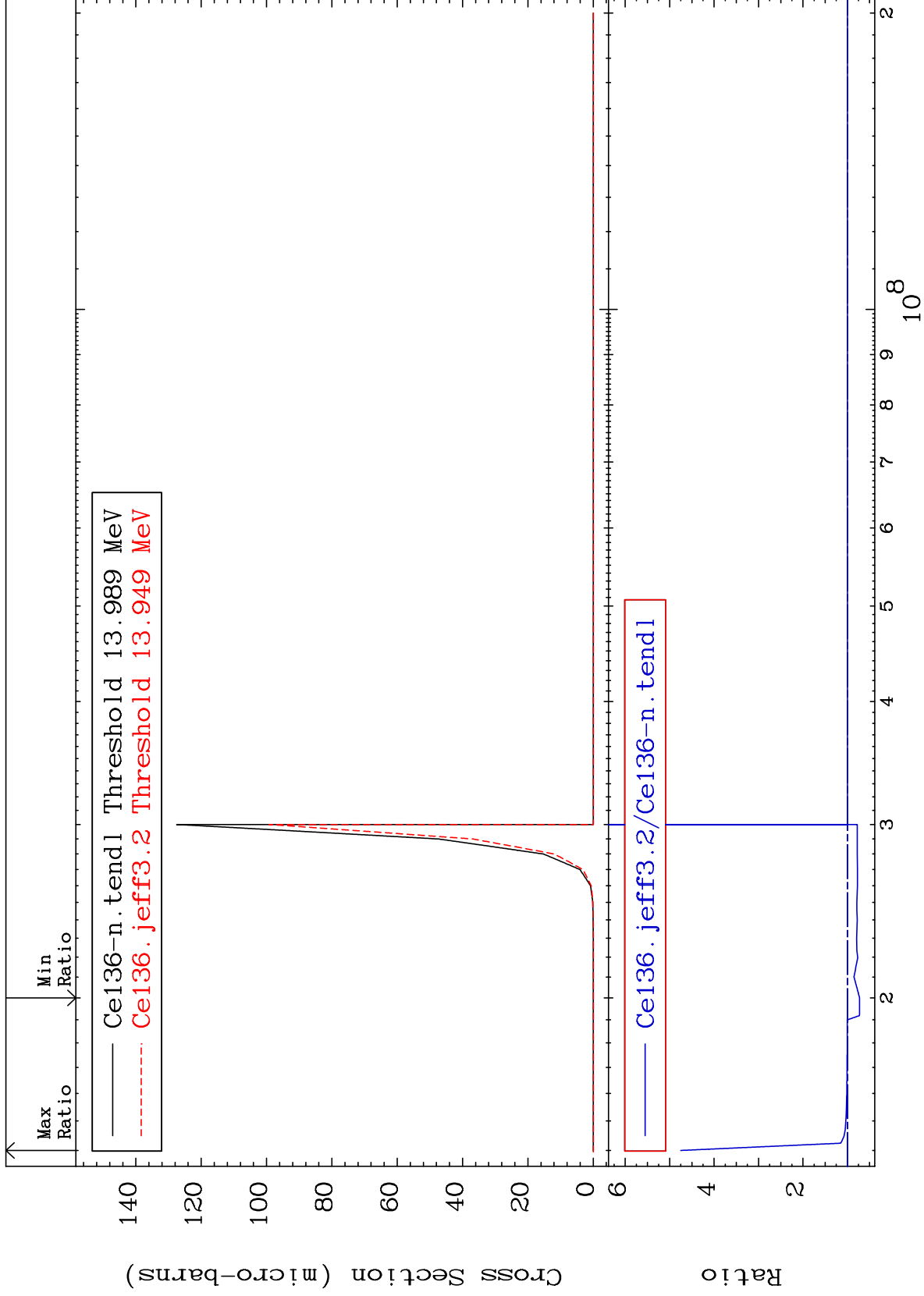
58-Ce-136
-25.76 To 25.81 %



MAT 5825

(n, n') He-3
Cross Section

58-Ce-136
-27.33 To 375.0 %



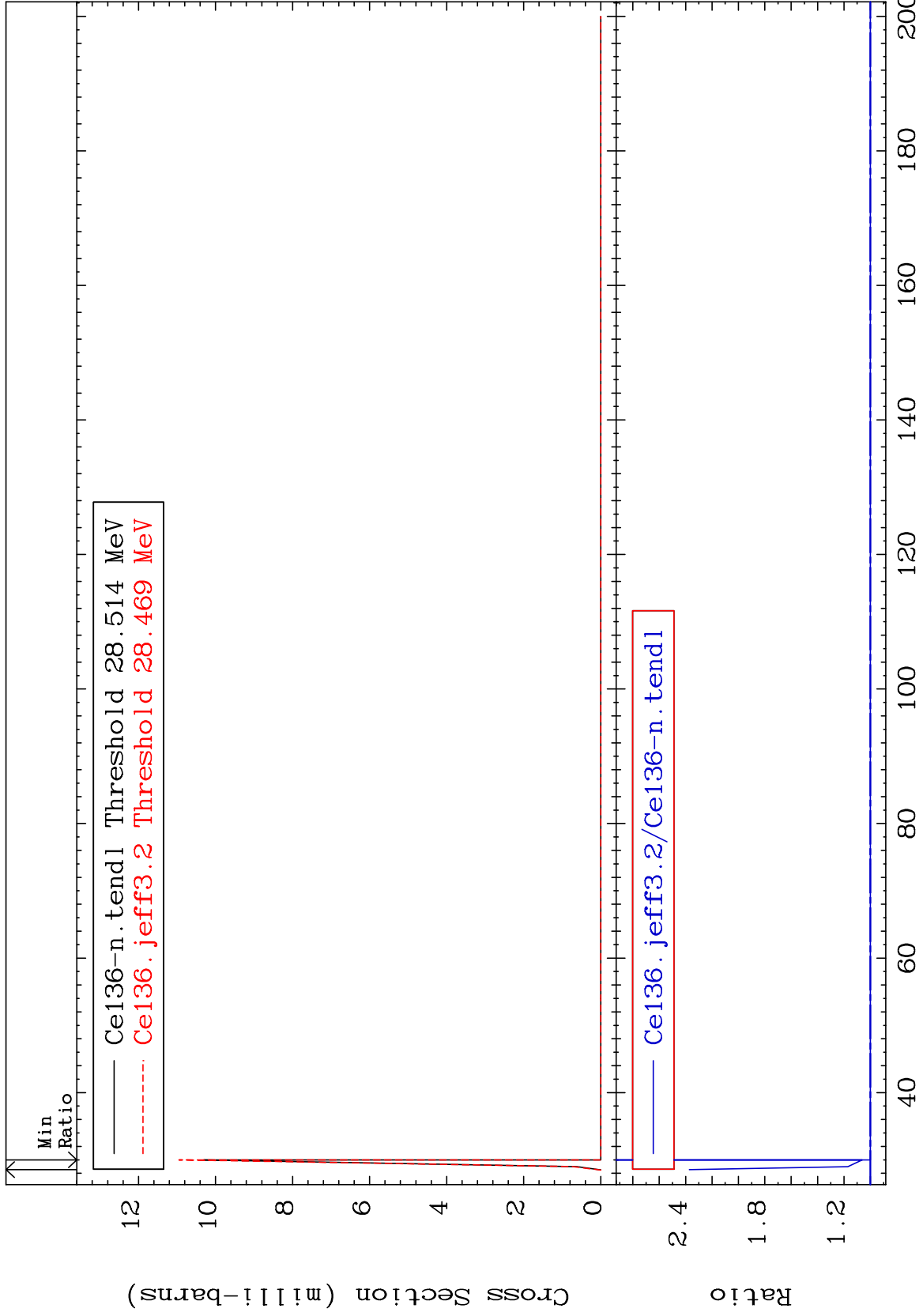
MAT 5825

(n,4n)

58-Ce-136

Cross Section

0.000 To 137.2 %



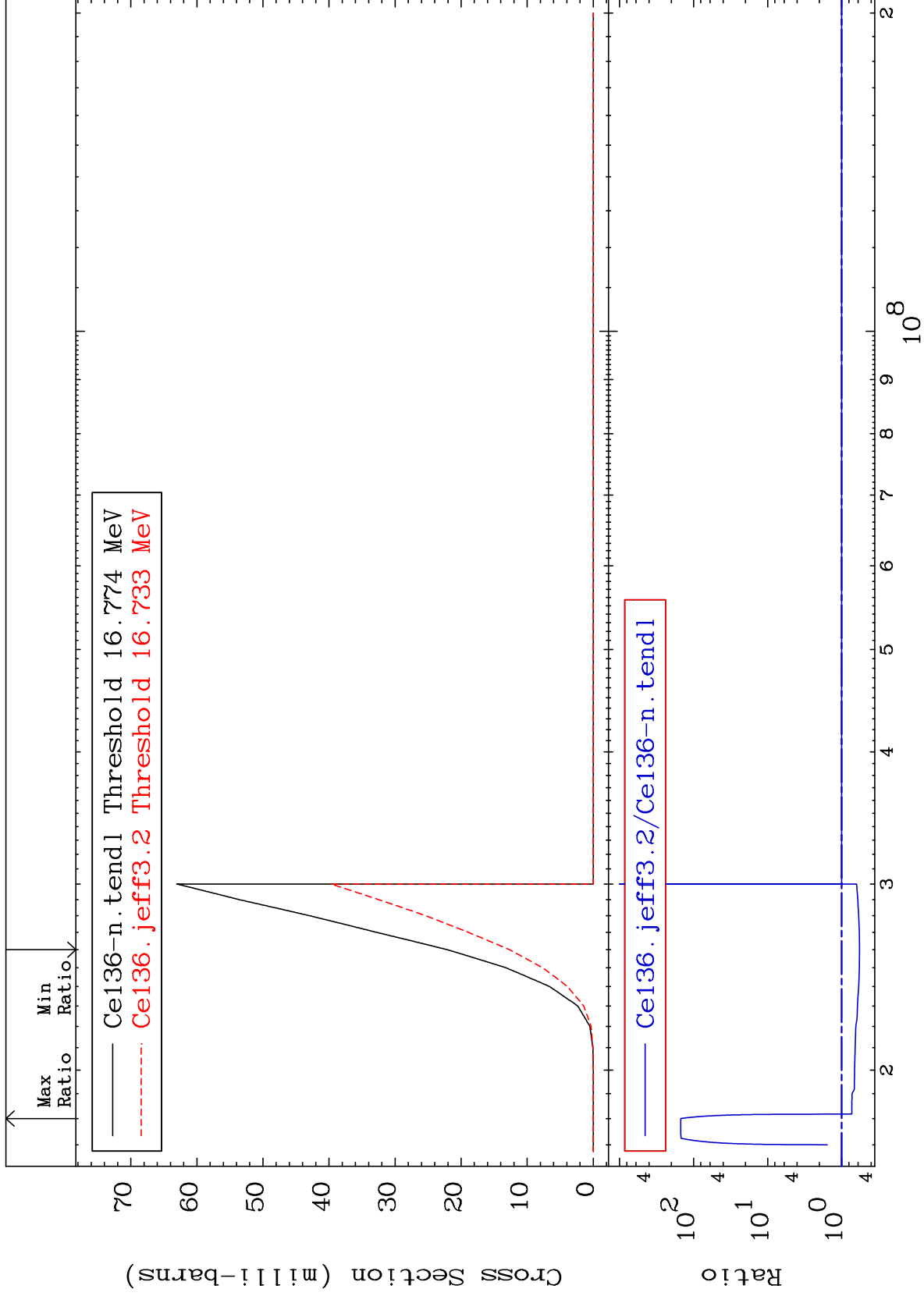
15

58-Ce-136

MAT 5825

(n,2n) p
Cross Section

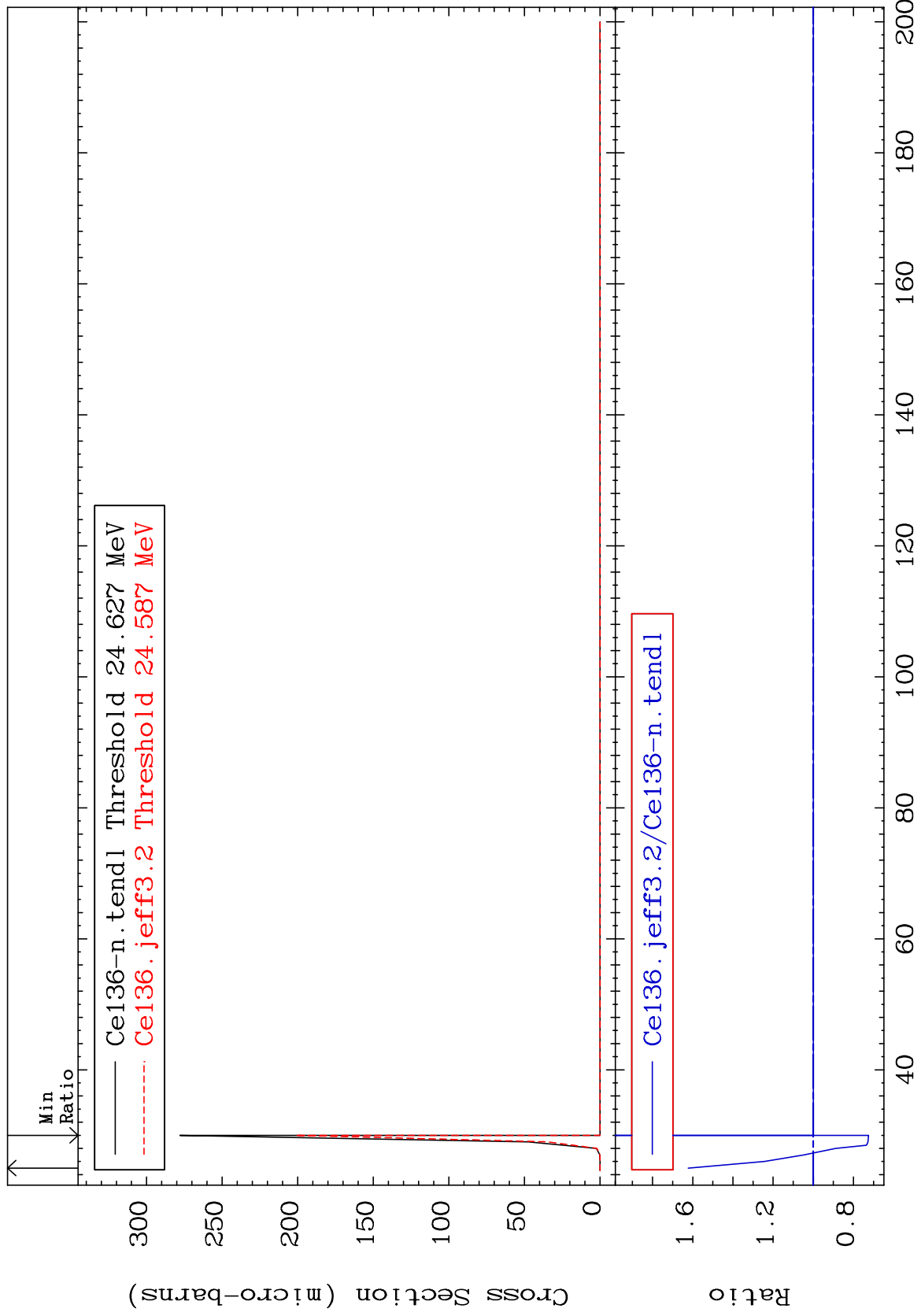
58-Ce-136
-42.57 To 9999. %



MAT 5825

(n,3n) p
Cross Section

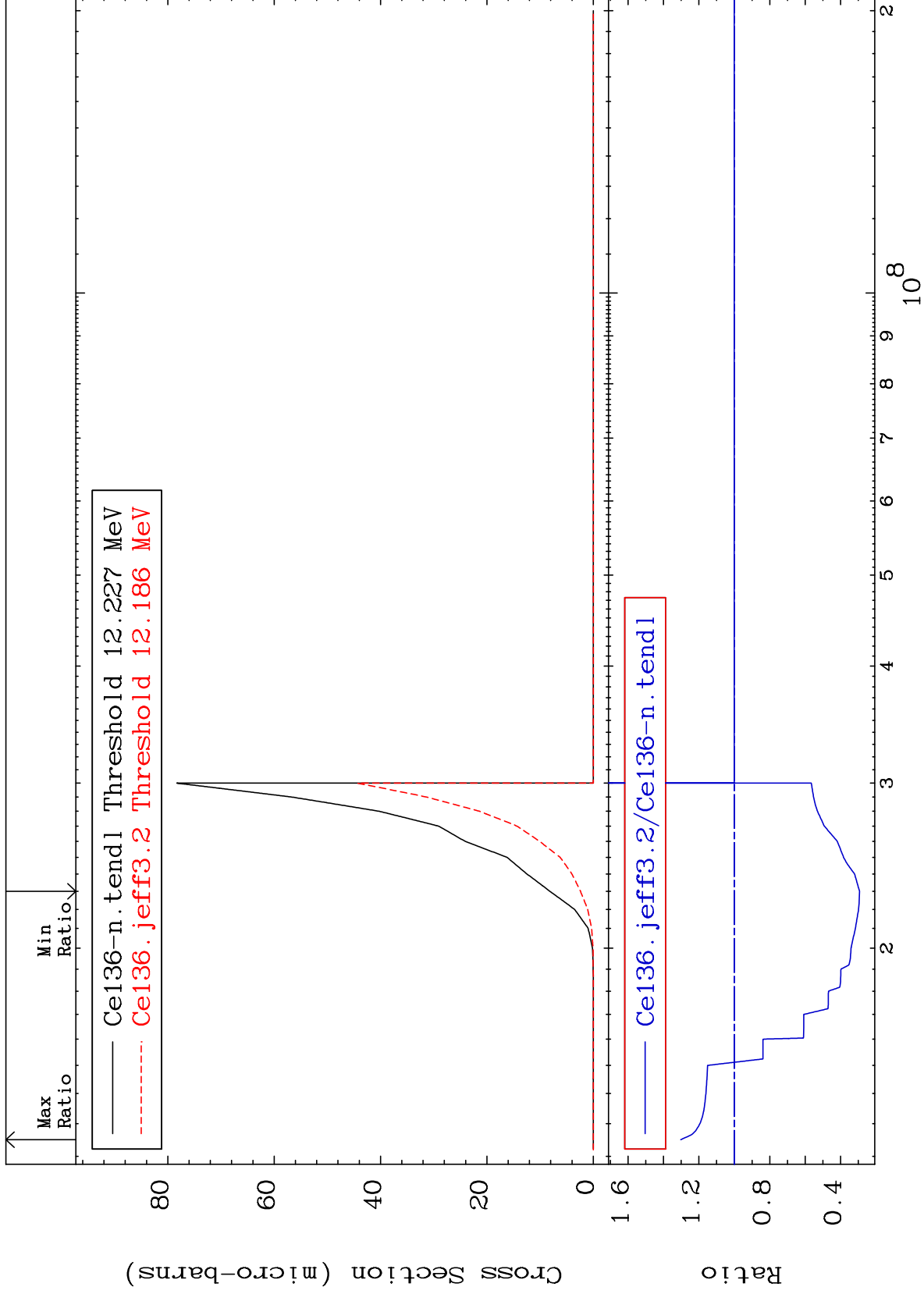
58-Ce-136
-27.53 To 62.23 %



MAT 5825

(n,2n) p
Cross Section

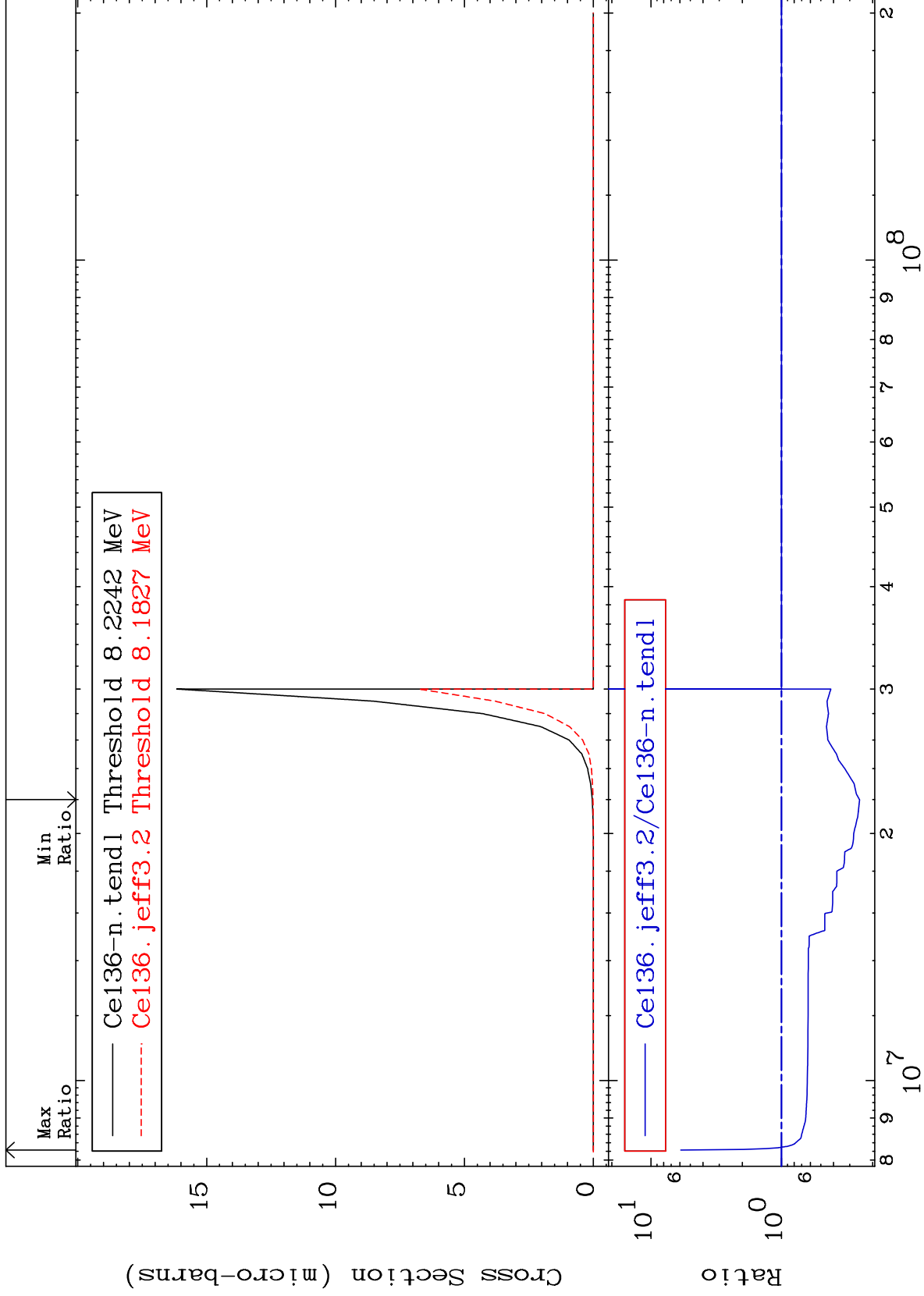
58-Ce-136
-70.65 To 30.22 %



MAT 5825

(n,n') p α
Cross Section

58-Ce-136
-74.76 To 491.7 %



19

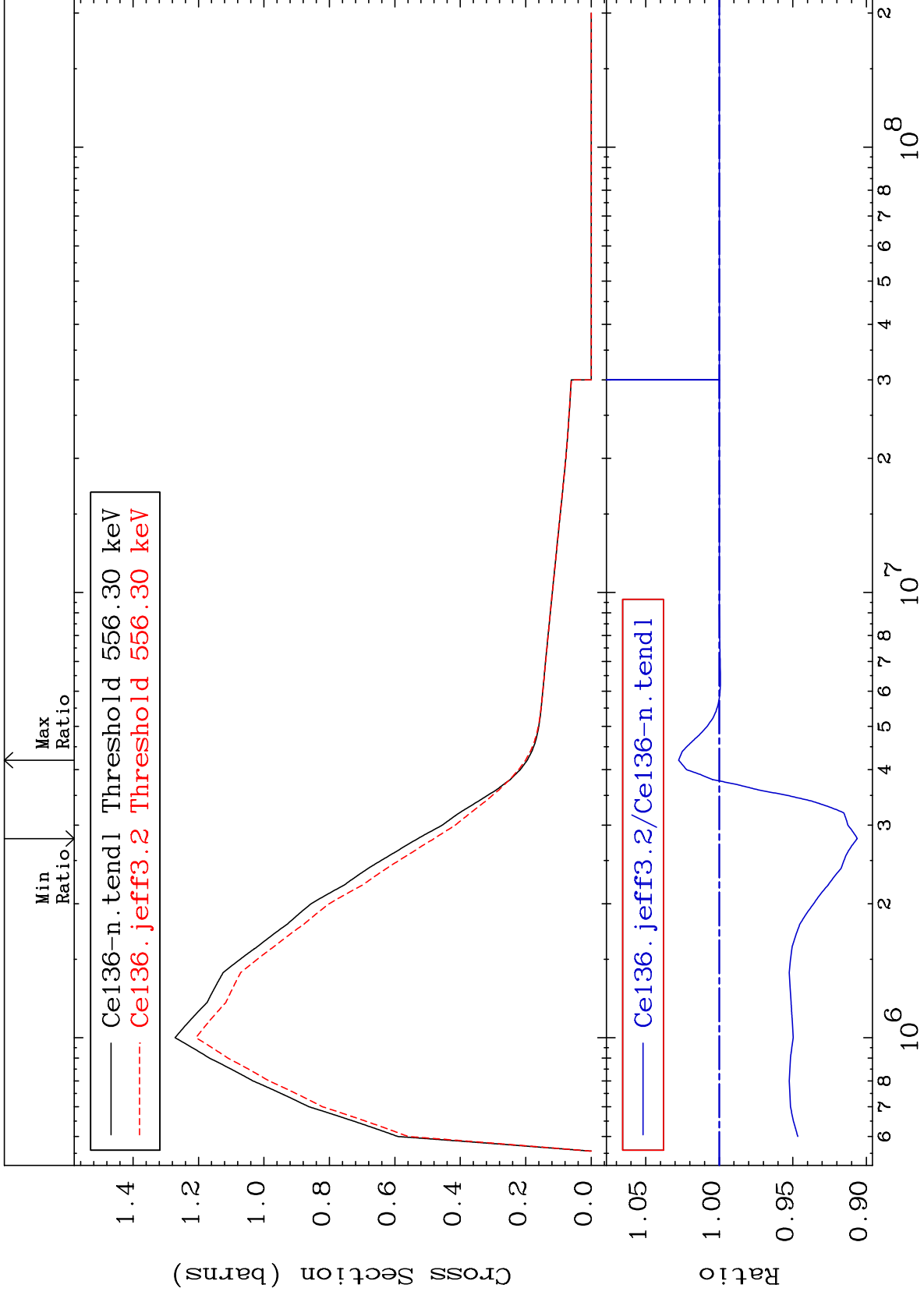
Incident Energy (eV)

58-Ce-136

MAT 5825

552.2 keV (n,n') Level
Cross Section

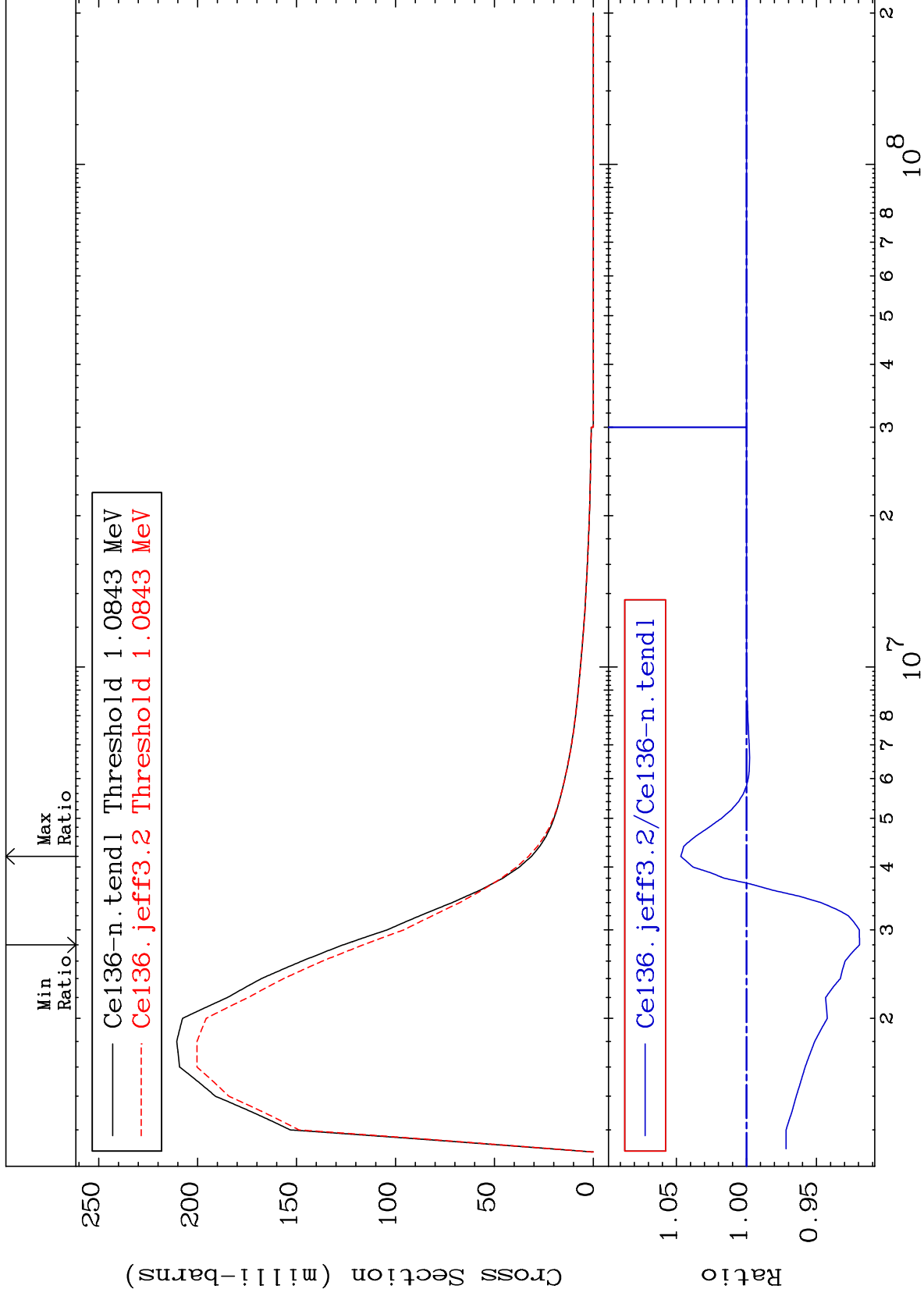
58-Ce-136
-9.385 To 2.763 %



MAT 5825

1.076 MeV (n,n') Level
Cross Section

58-Ce-136
-8.067 To 4.688 %



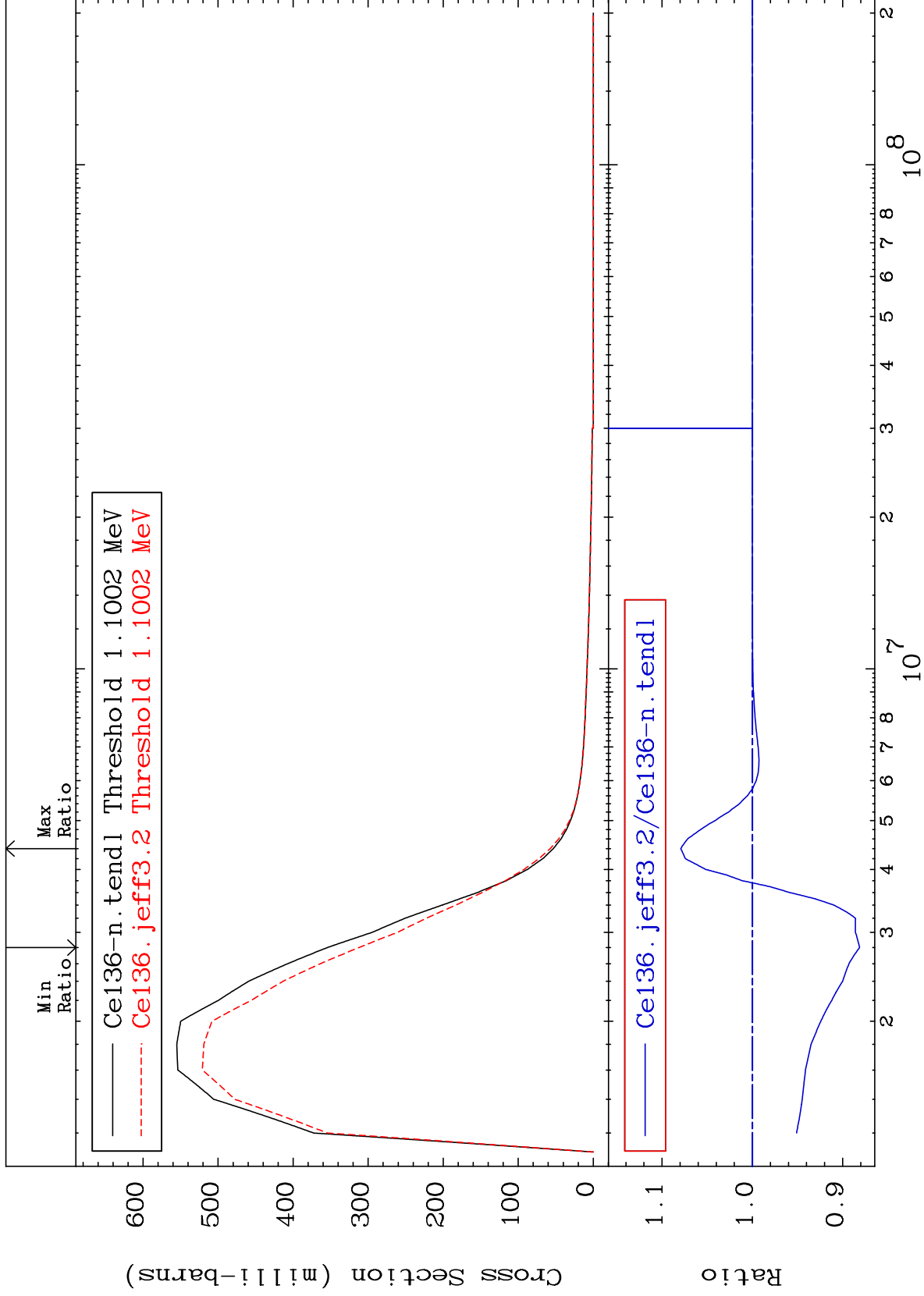
MAT 5825

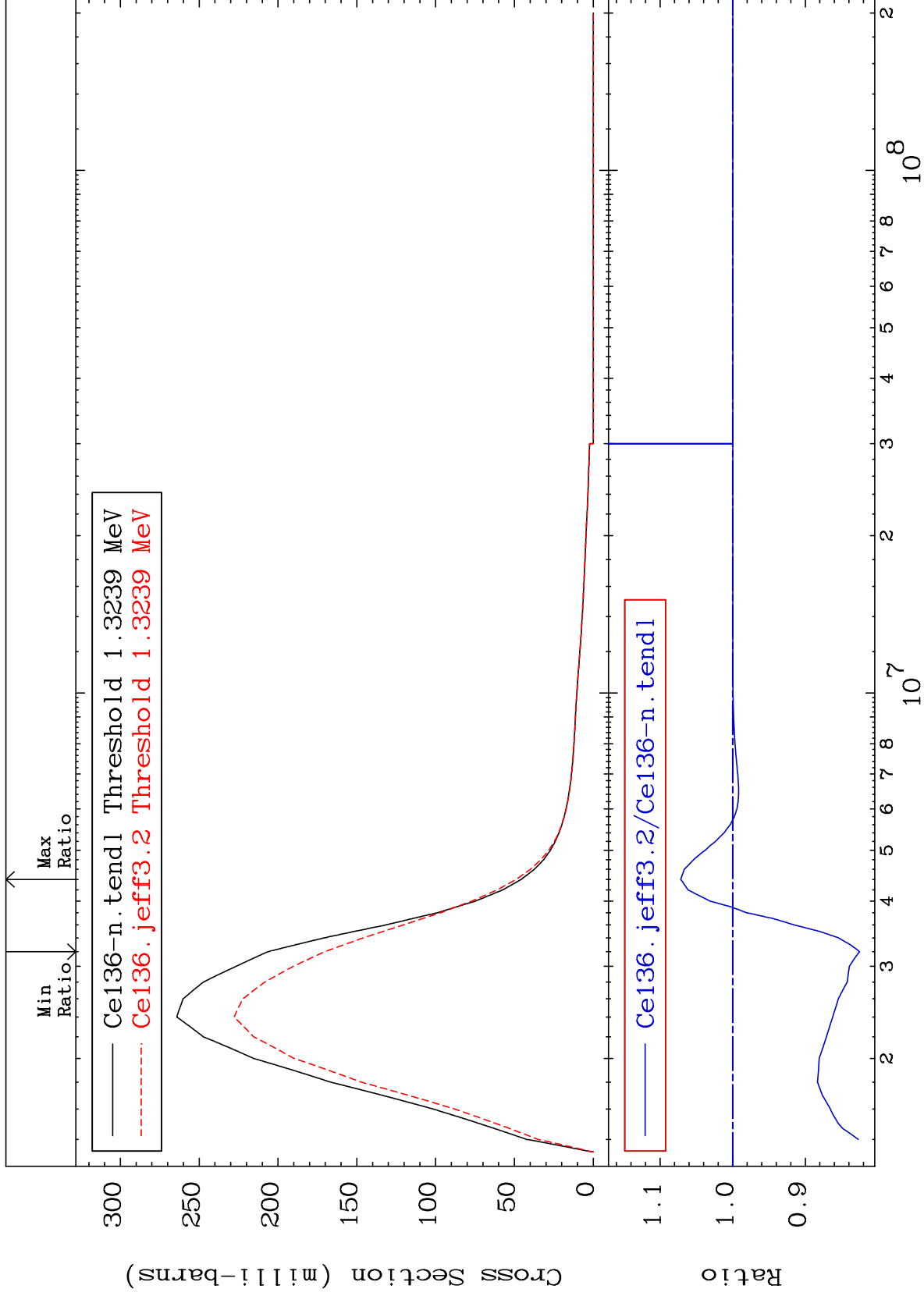
1.092 MeV (n,n') Level

58-Ce-136

-11.87 To 7.925 %

Cross Section

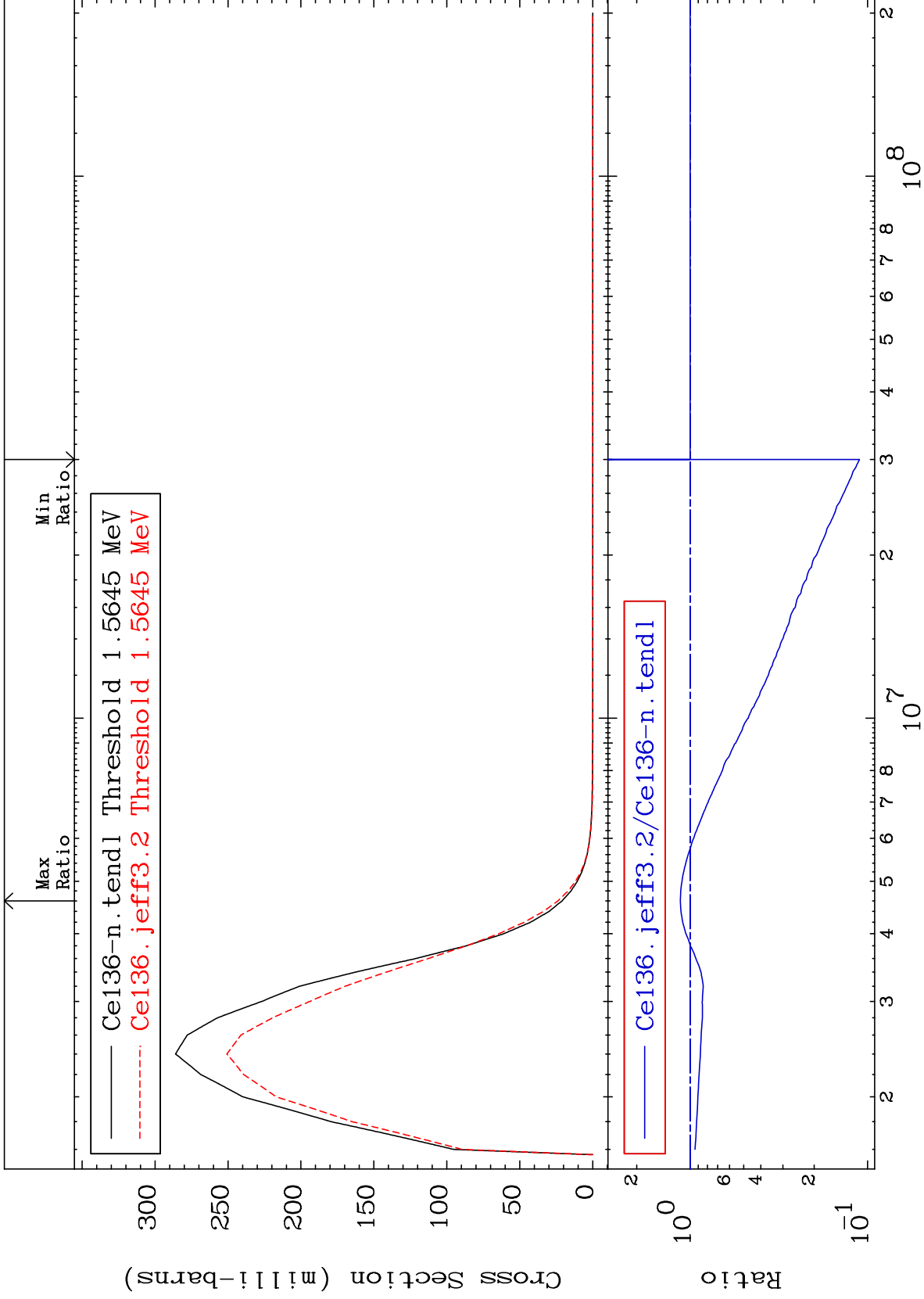




MAT 5825

1.553 MeV (n,n') Level
Cross Section

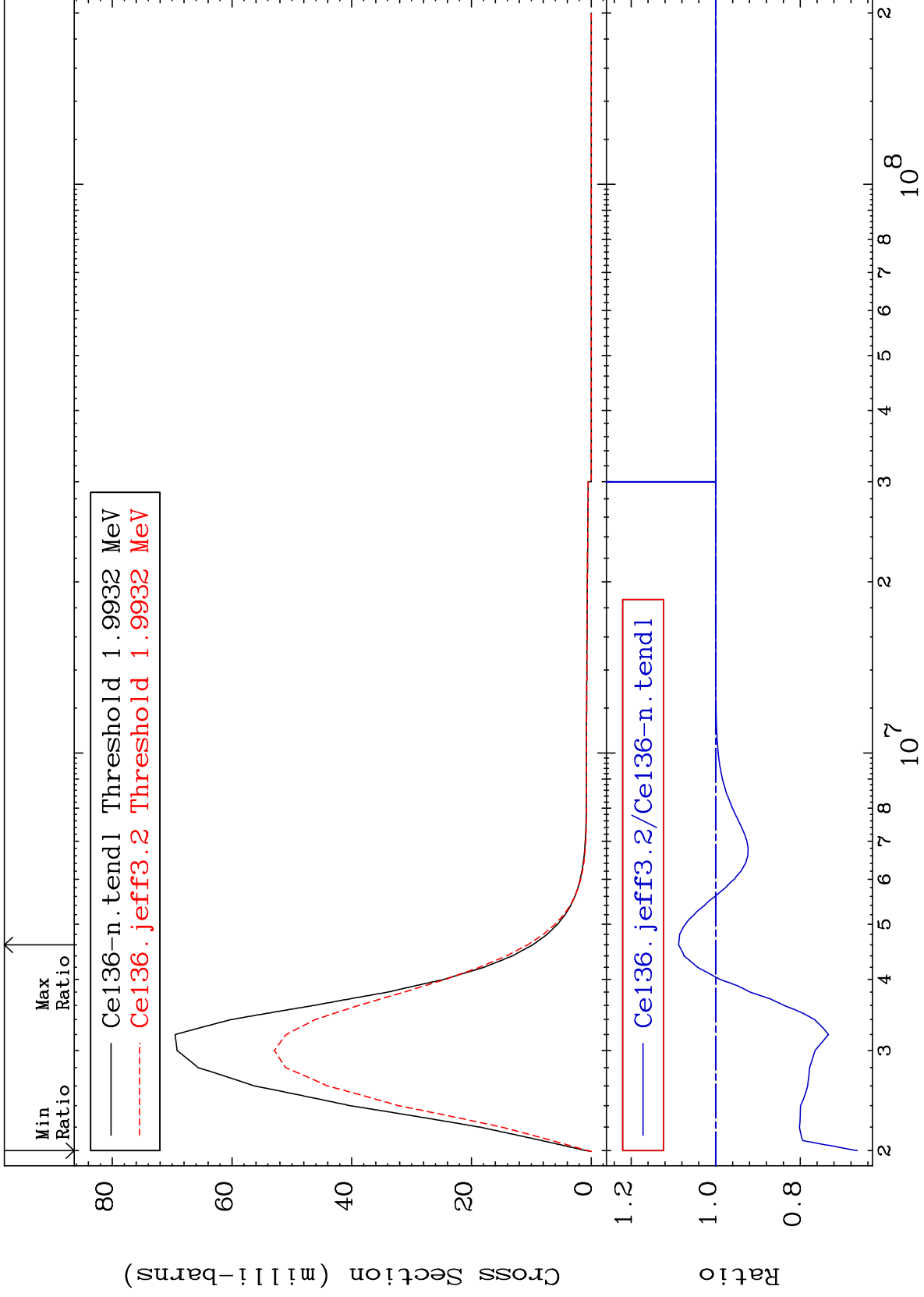
58-Ce-136
-88.88 To 13.60 %



MAT 5825

1.979 MeV (n,n') Level
Cross Section

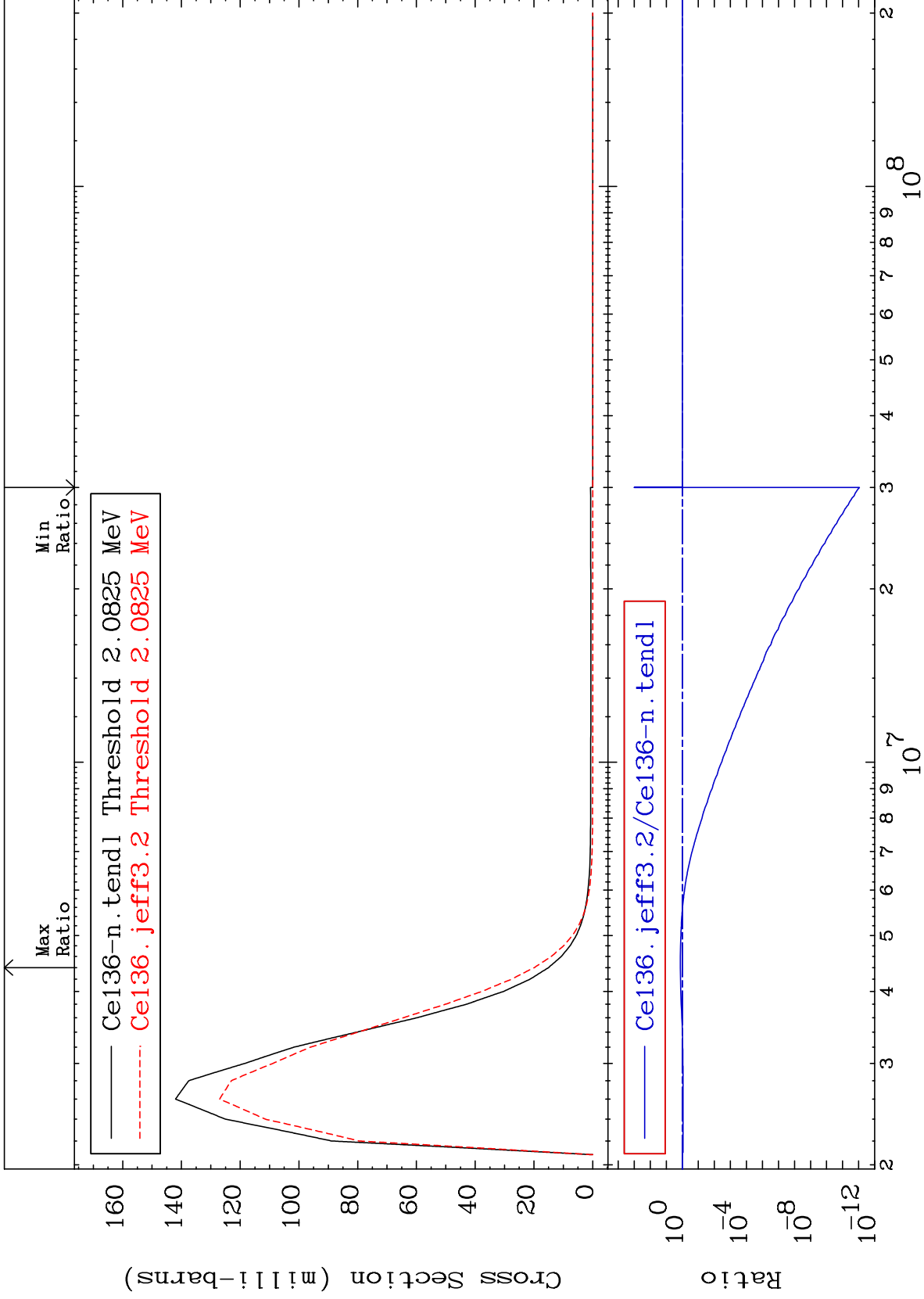
58-Ce-136
-33.50 To 8.774 %



MAT 5825

2.067 MeV (n,n') Level
Cross Section

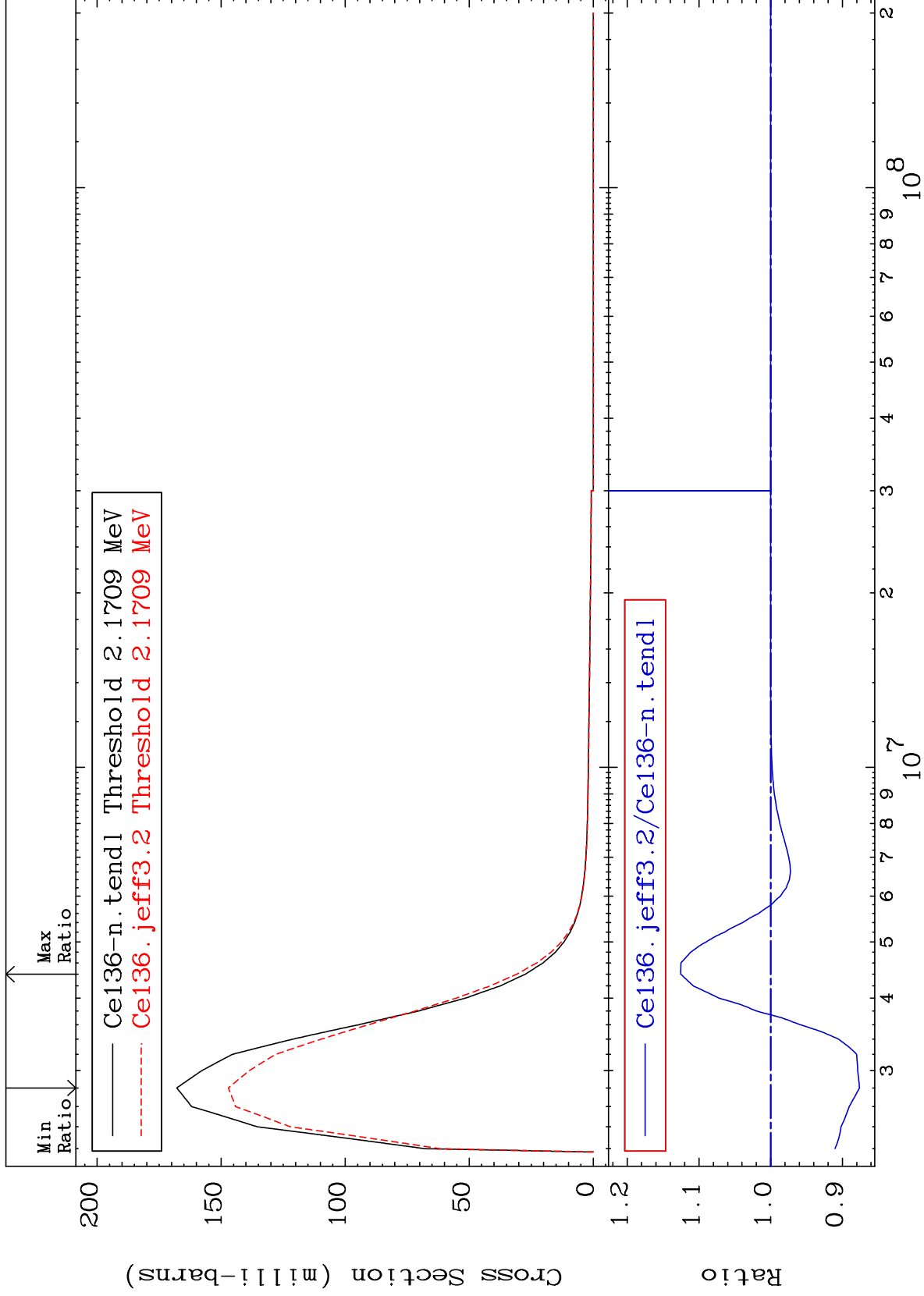
58-Ce-136
-100.0 To 32.19 %



MAT 5825

2.155 MeV (n,n') Level
Cross Section

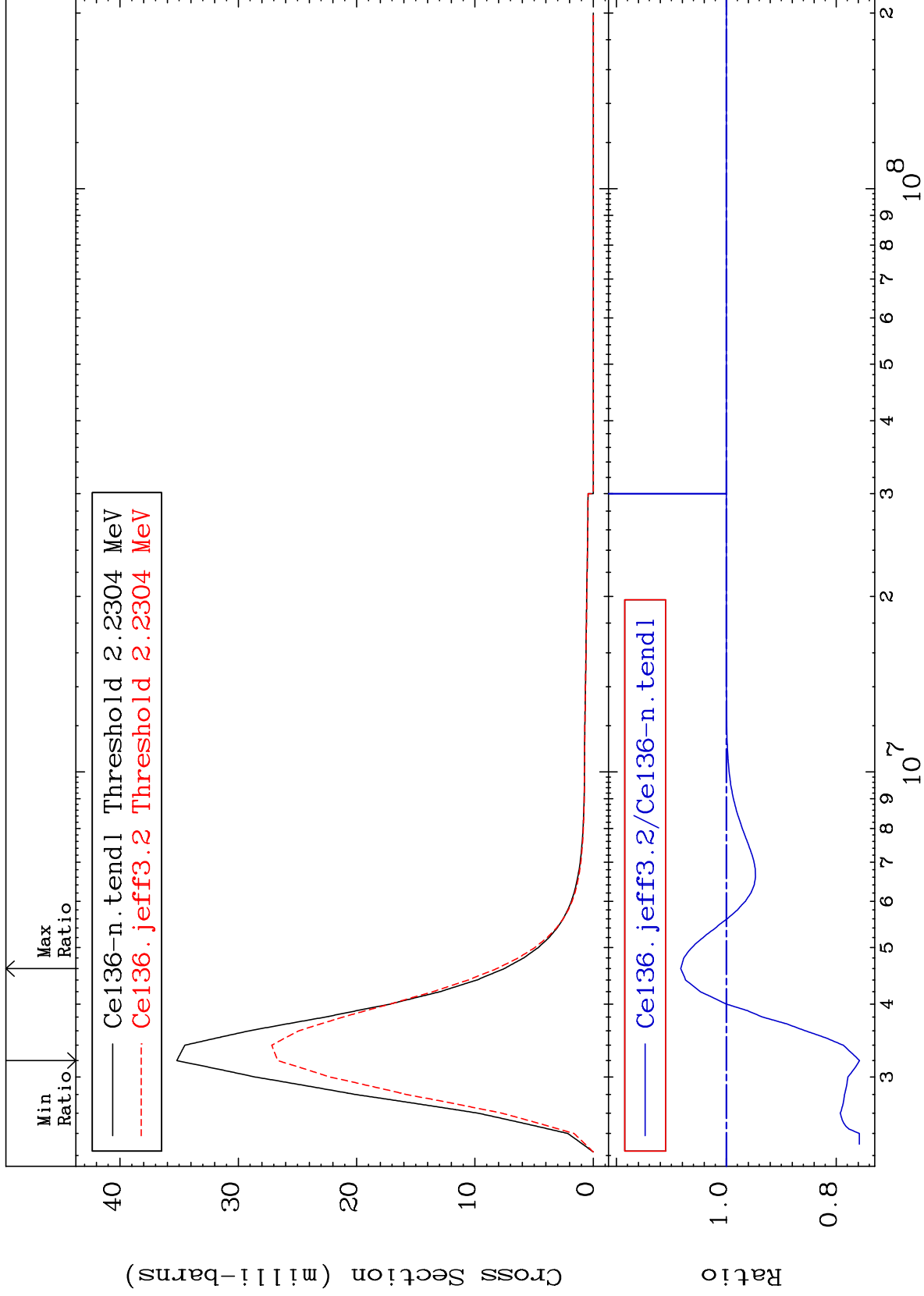
58-Ce-136
-12.39 To 12.54 %



MAT 5825

2.214 MeV (n,n') Level
Cross Section

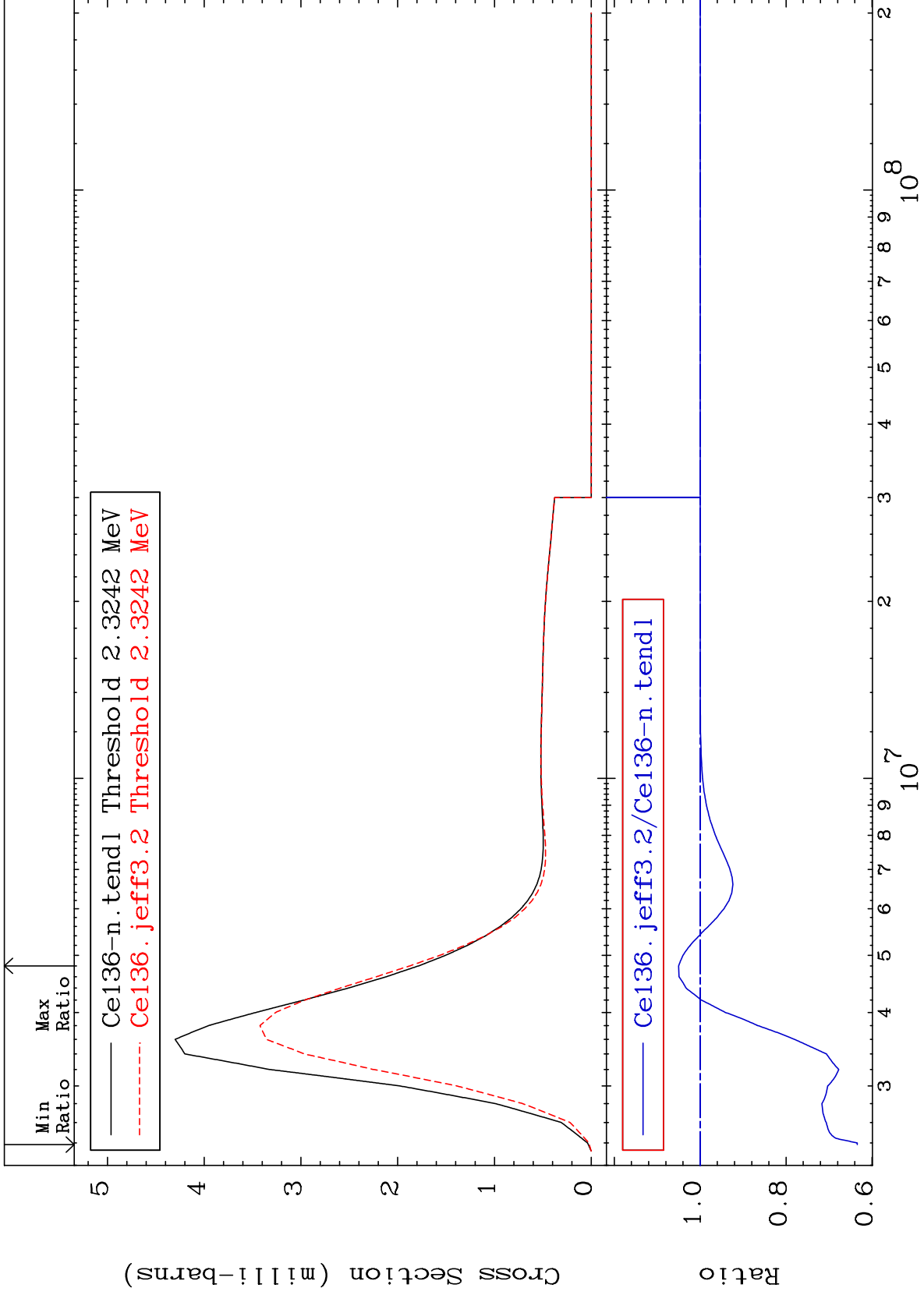
58-Ce-136
-24.24 To 8.288 %



MAT 5825

2.307 MeV (n,n') Level
Cross Section

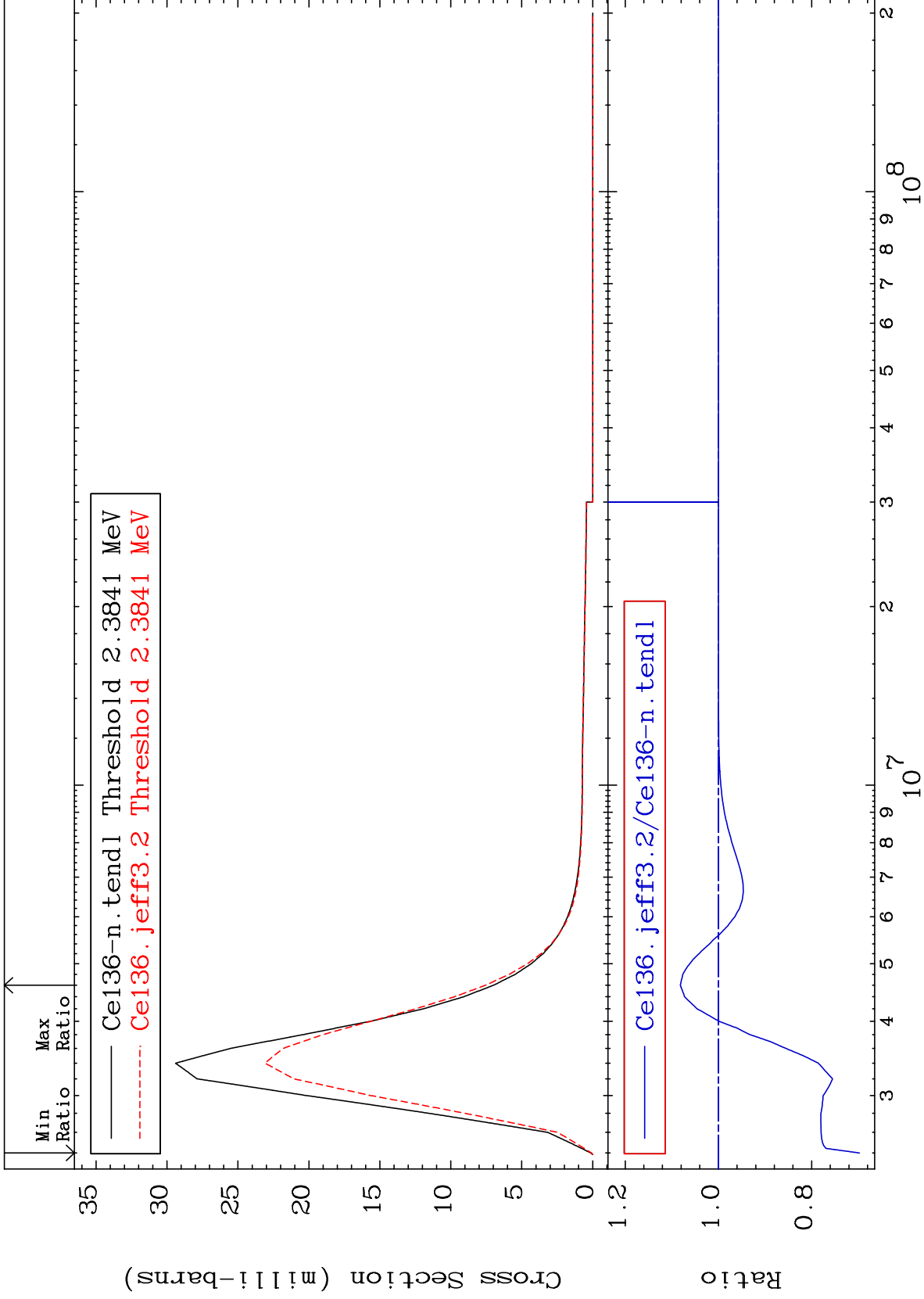
58-Ce-136
-36.58 To 5.014 %



MAT 5825

2.367 MeV (n,n') Level
Cross Section

58-Ce-136
-30.25 To 8.164 %



30

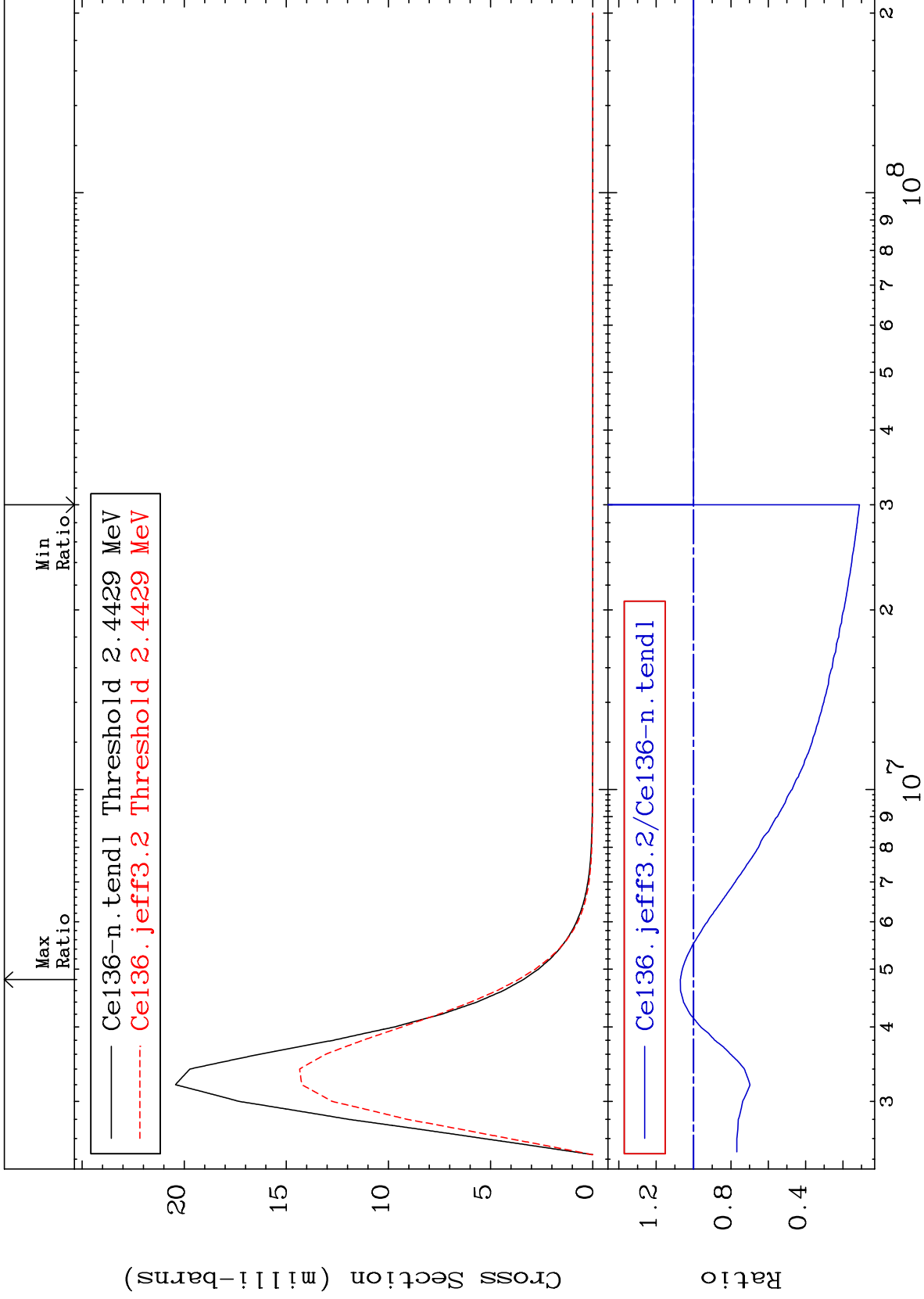
Incident Energy (eV)

58-Ce-136

MAT 5825

2.425 MeV (n,n') Level
Cross Section

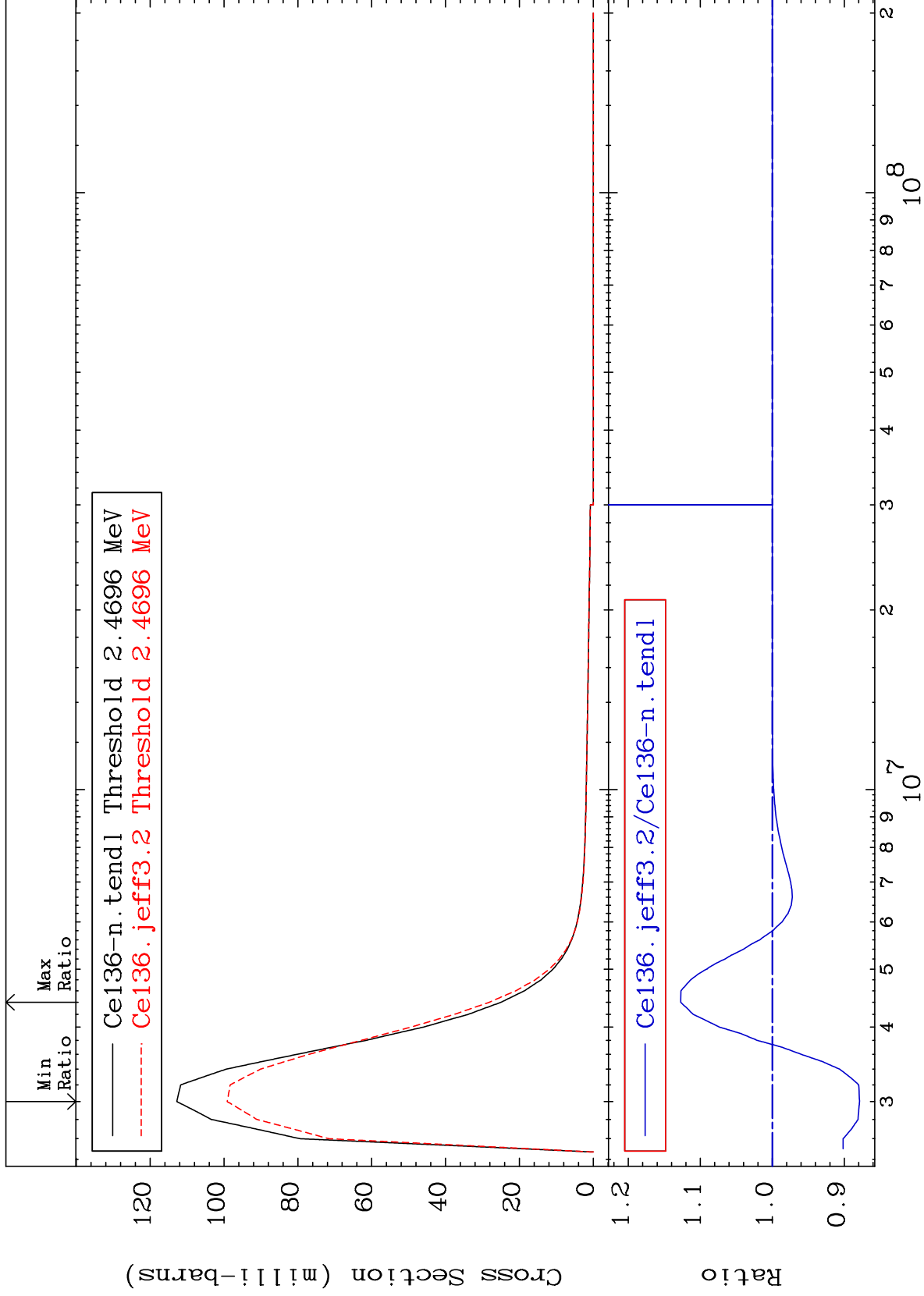
58-Ce-136
-88.84 To 7.058 %



MAT 5825

2.451 MeV (n,n') Level
Cross Section

58-Ce-136
-12.12 To 12.72 %



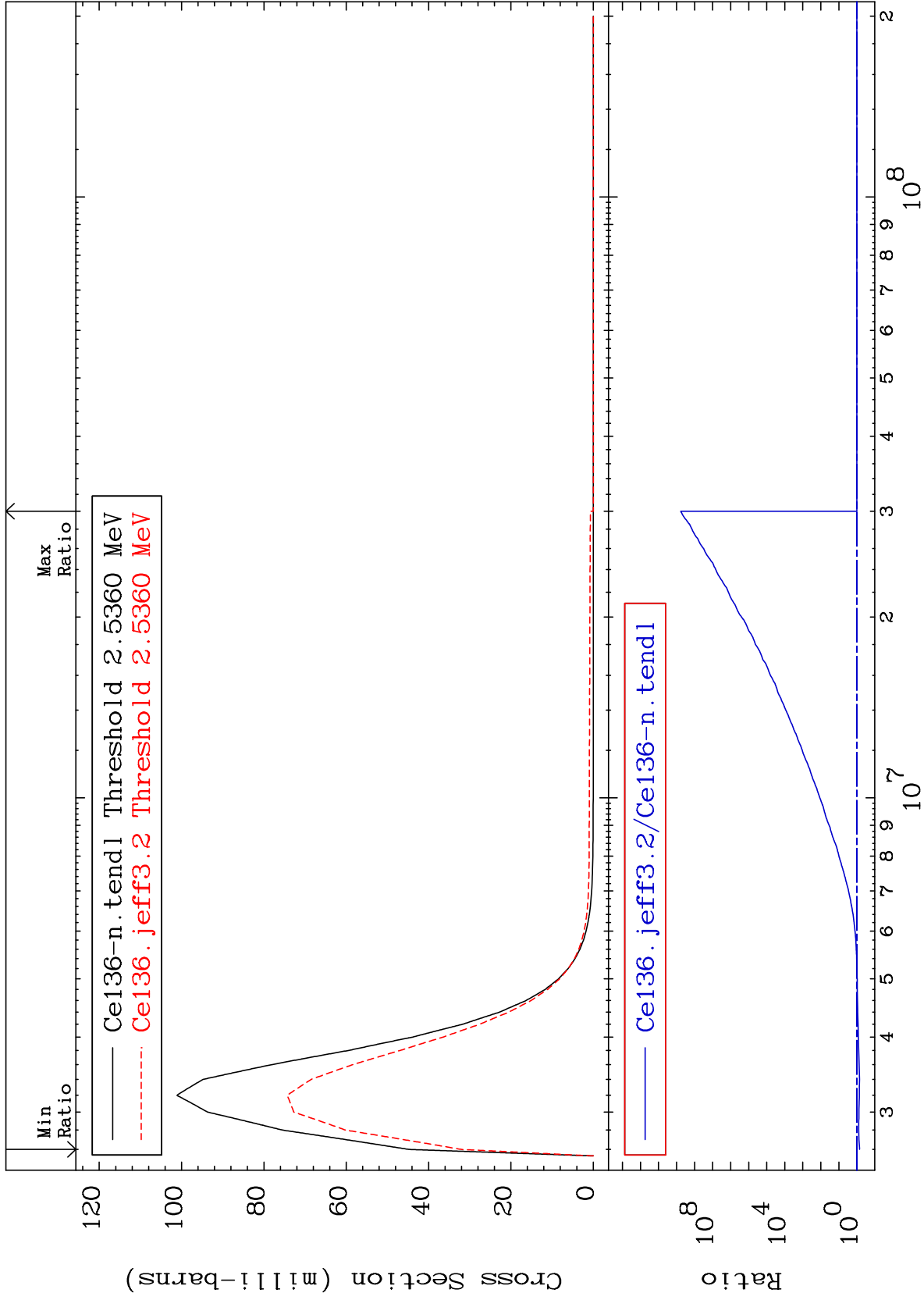
MAT 5825

2.517 MeV (n,n') Level

58-Ce-136

-28.53 To 9999. %

Cross Section



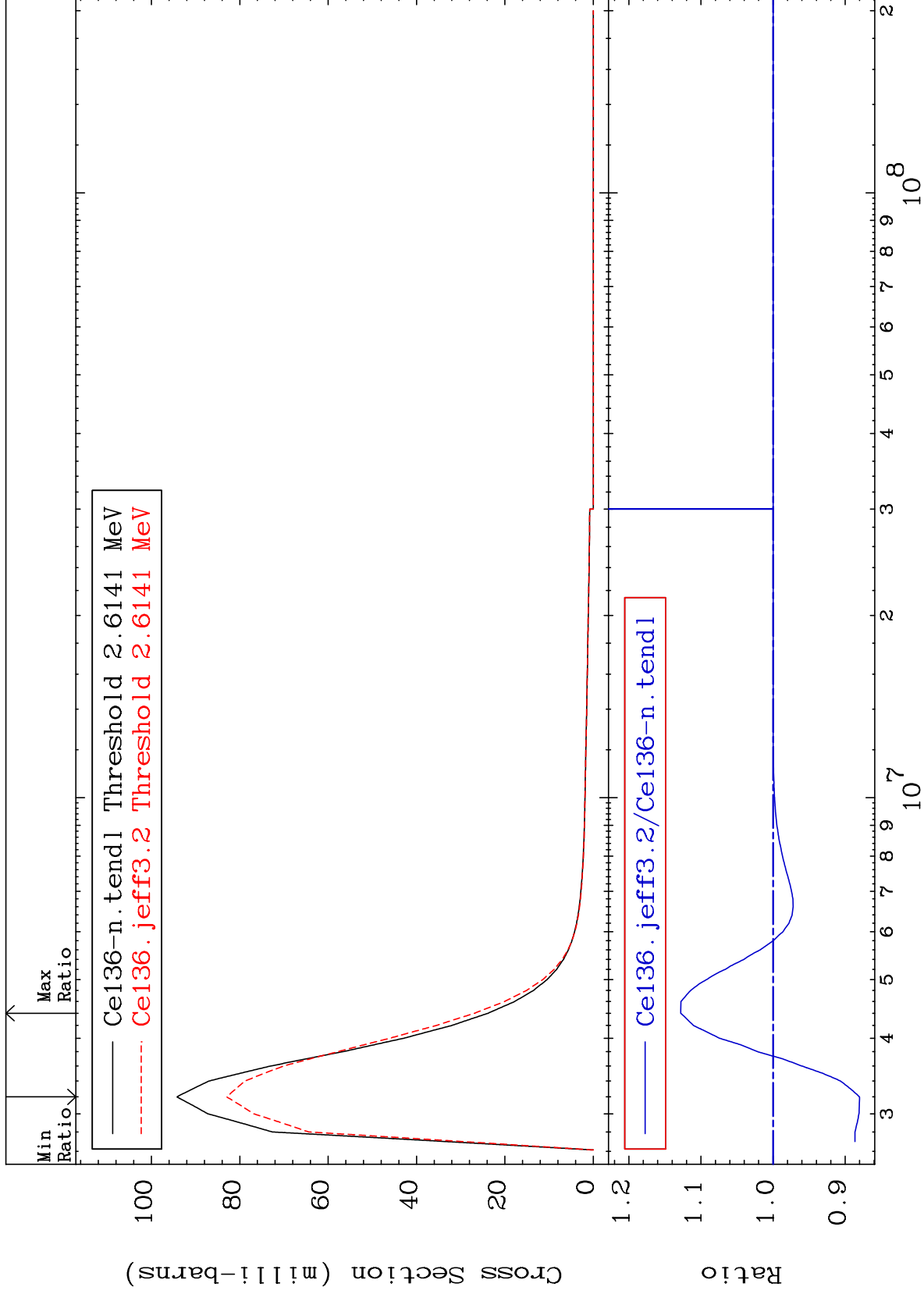
MAT 5825

2.595 MeV (n,n') Level

58-Ce-136

Cross Section

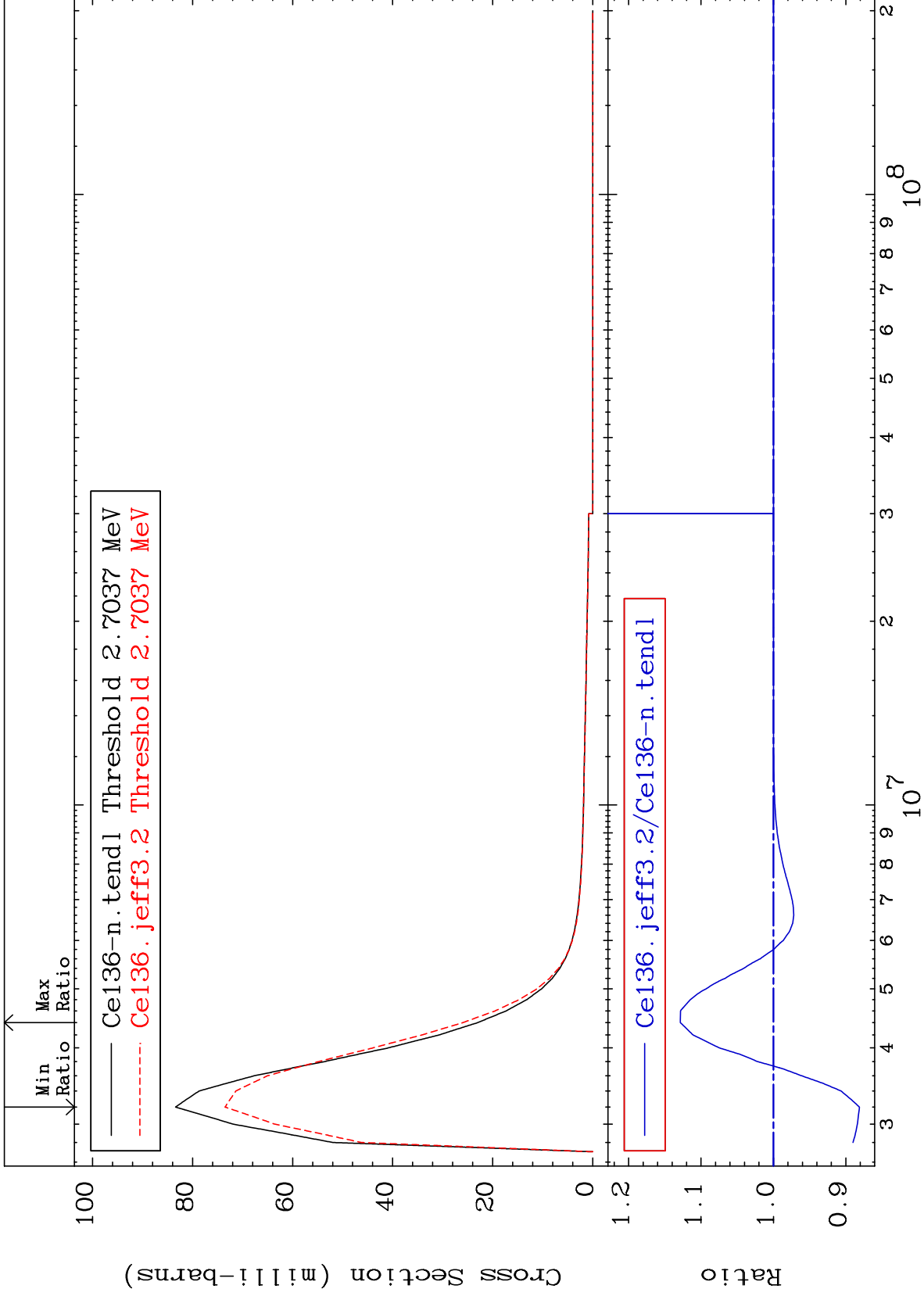
-11.99 To 12.80 %



MAT 5825

2.684 MeV (n,n') Level
Cross Section

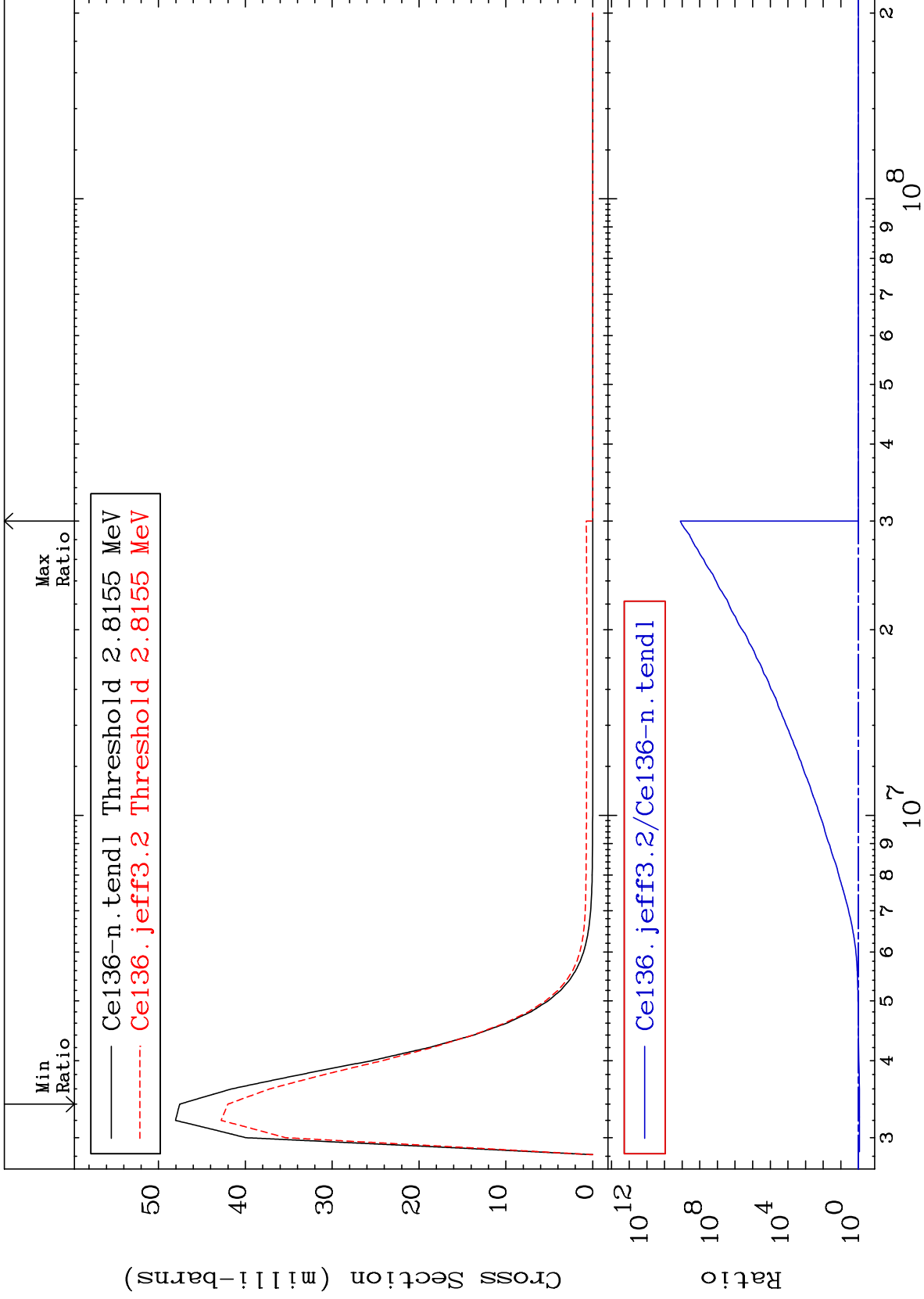
58-Ce-136
-11.88 To 12.86 %



MAT 5825

2.795 MeV (n,n') Level
Cross Section

58-Ce-136
-11.66 To 9999. %



36

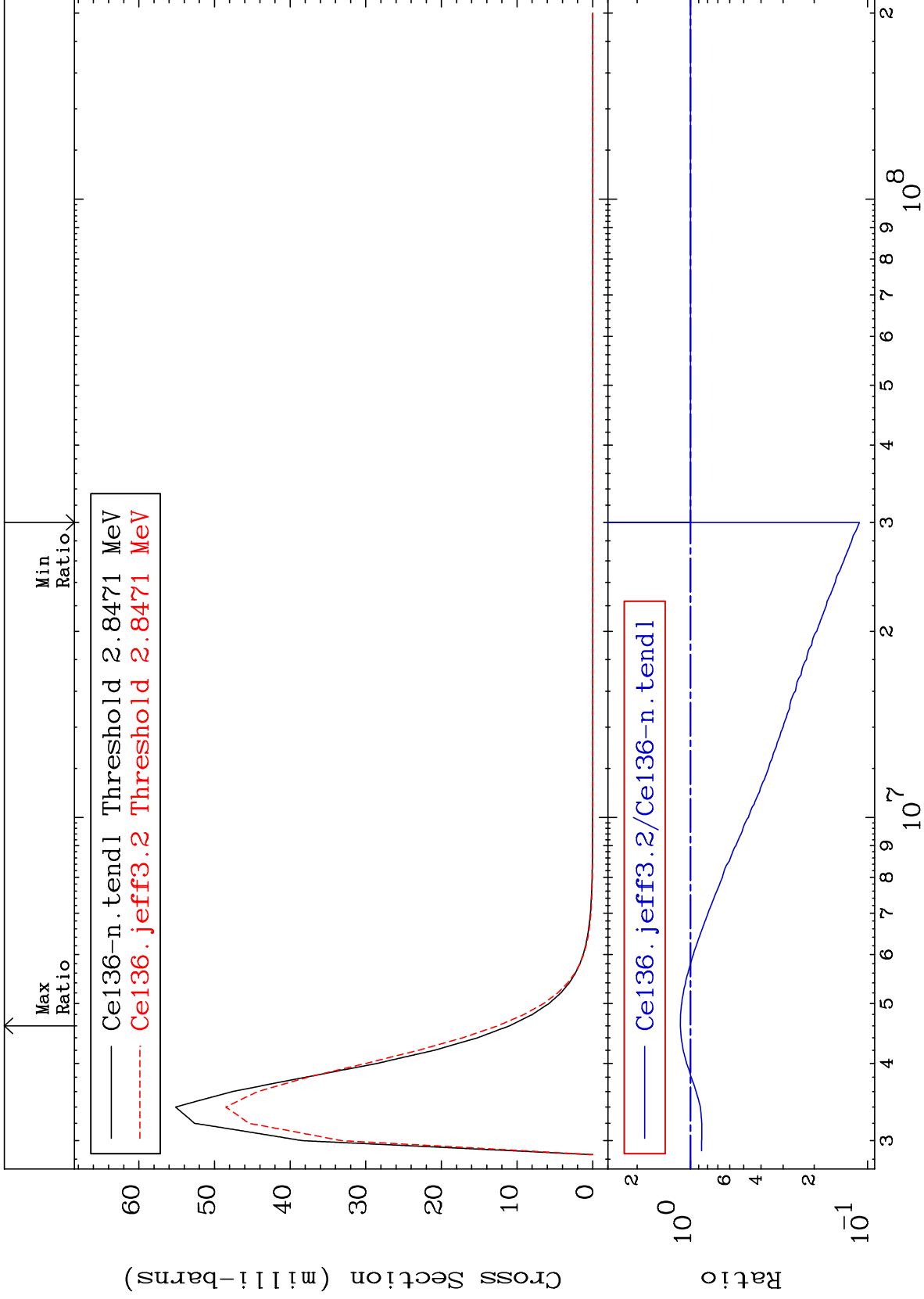
Incident Energy (eV)

58-Ce-136

MAT 5825

2.826 MeV (n,n') Level
Cross Section

58-Ce-136
-88.89 To 14.09 %



37

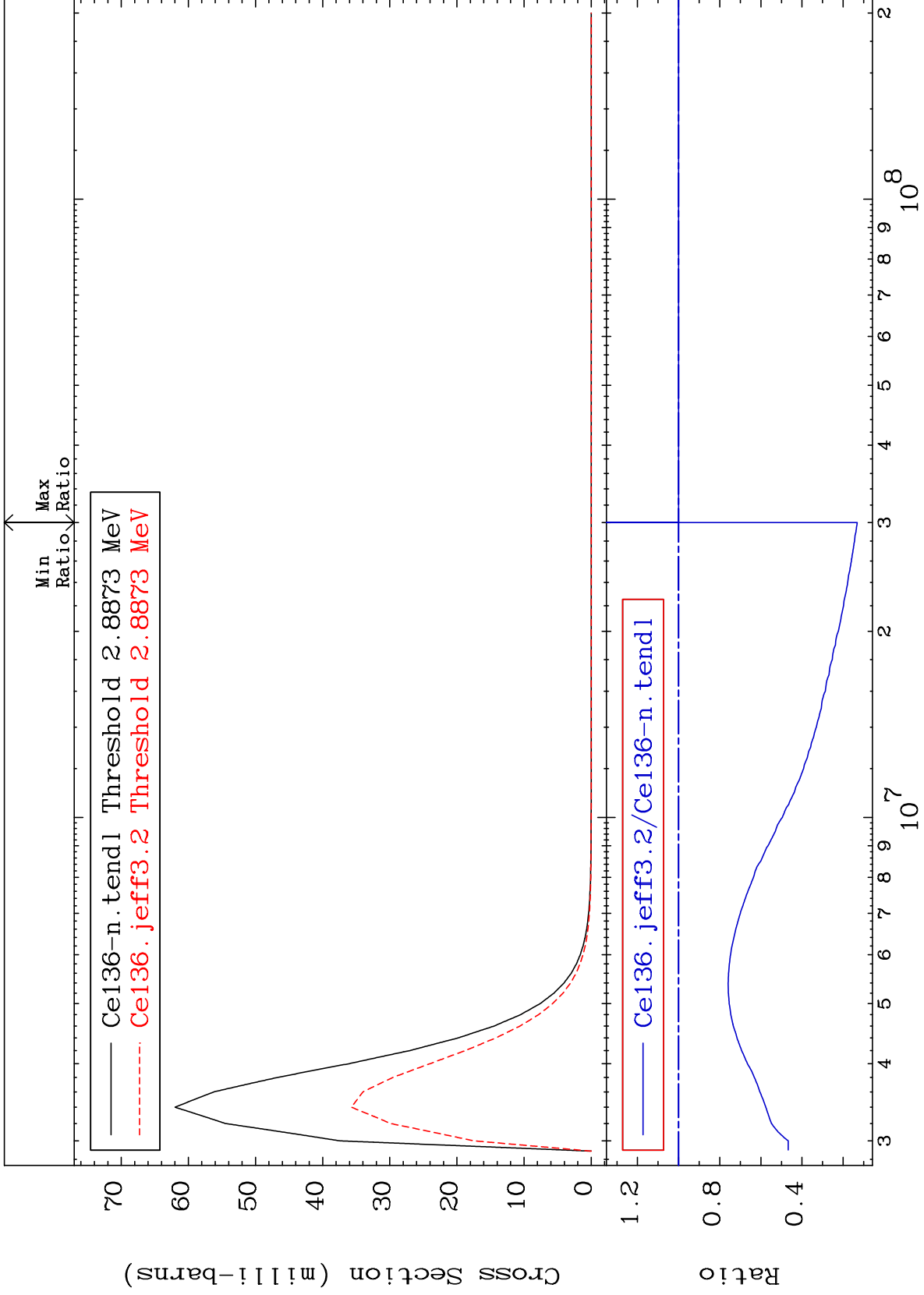
Incident Energy (eV)

58-Ce-136

MAT 5825

2.866 MeV (n,n') Level
Cross Section

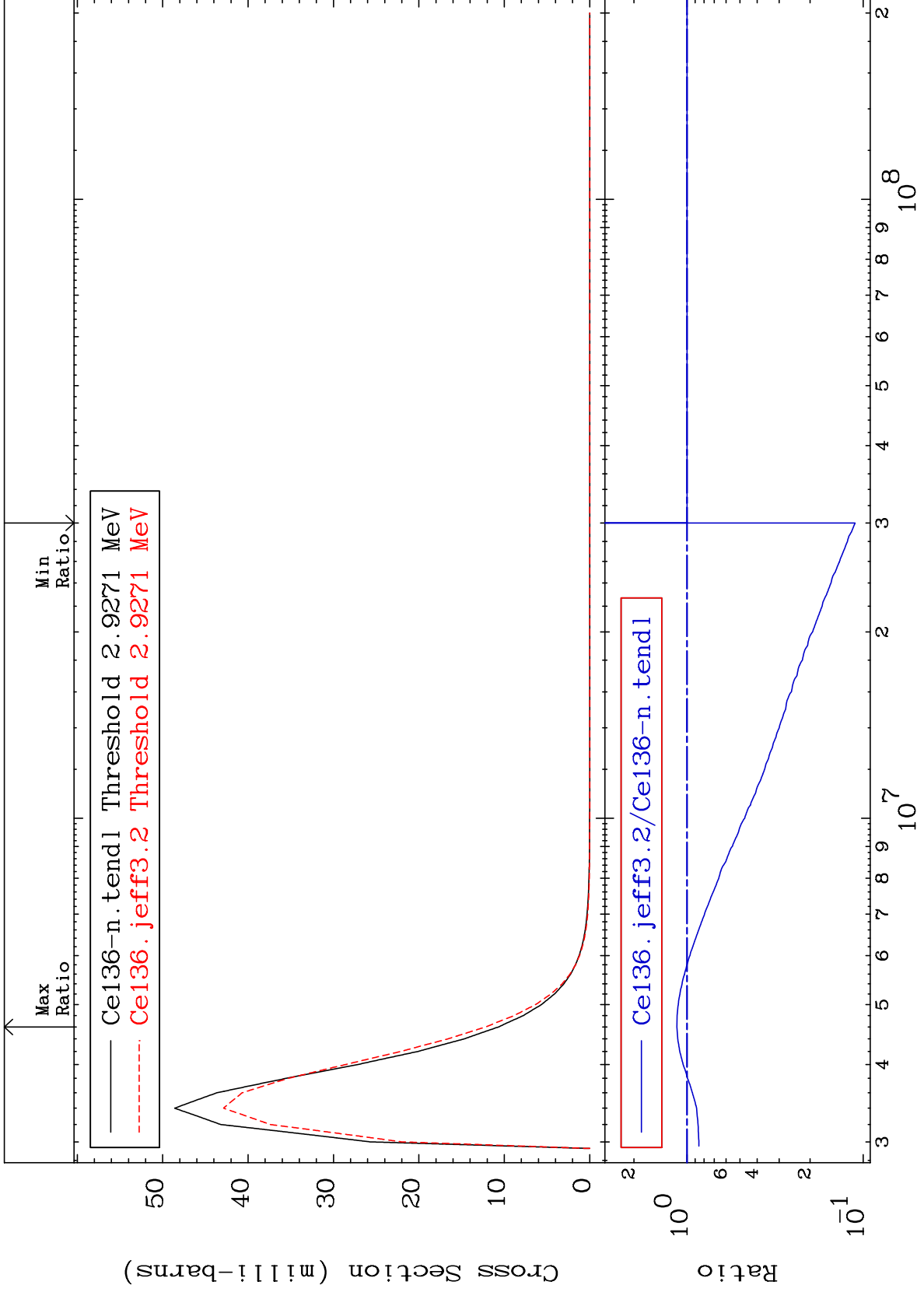
58-Ce-136
-86.87 To 0.000 %



MAT 5825

2.906 MeV (n,n') Level
Cross Section

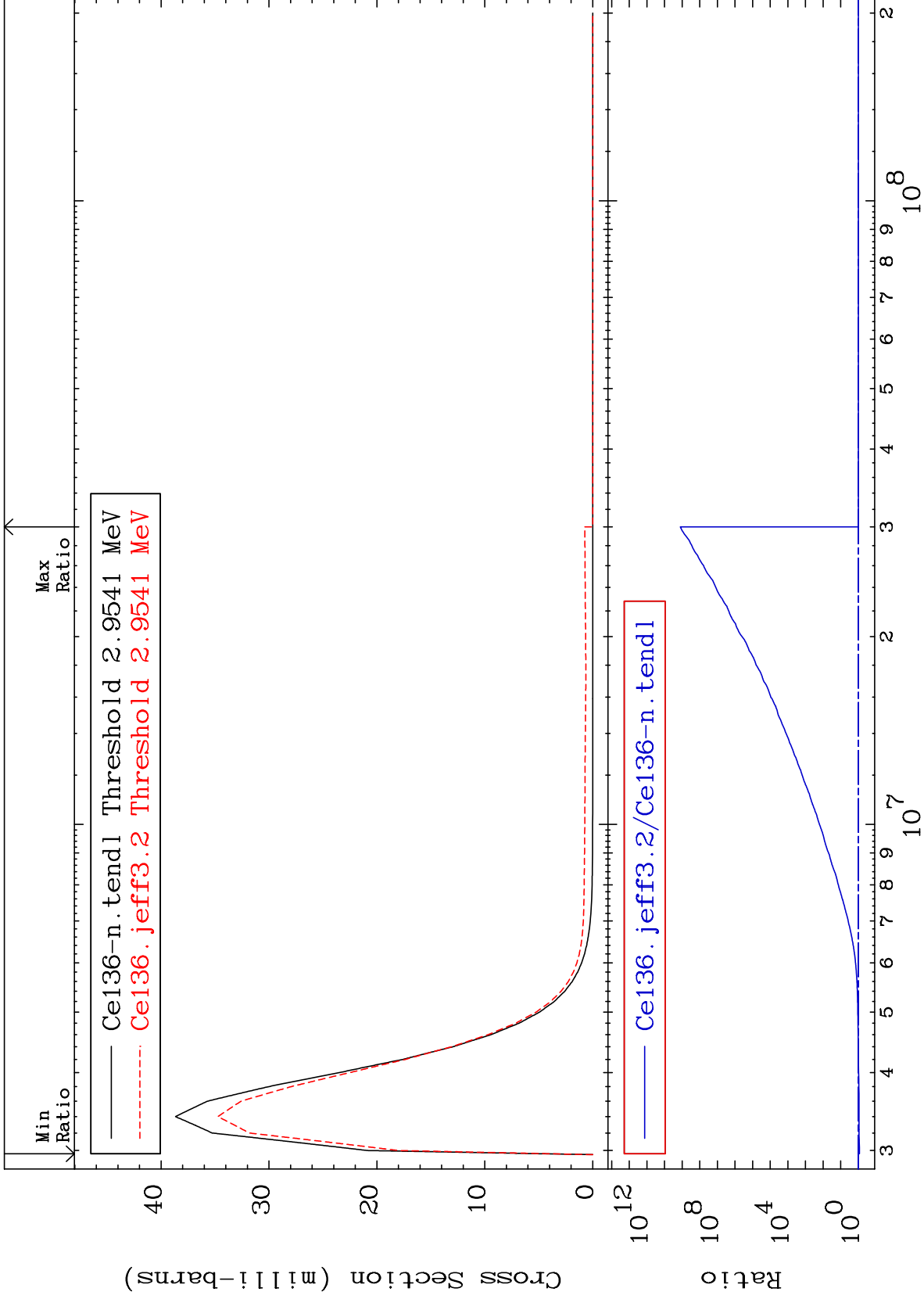
58-Ce-136
-88.89 To 14.12 %



MAT 5825

2.932 MeV (n,n') Level
Cross Section

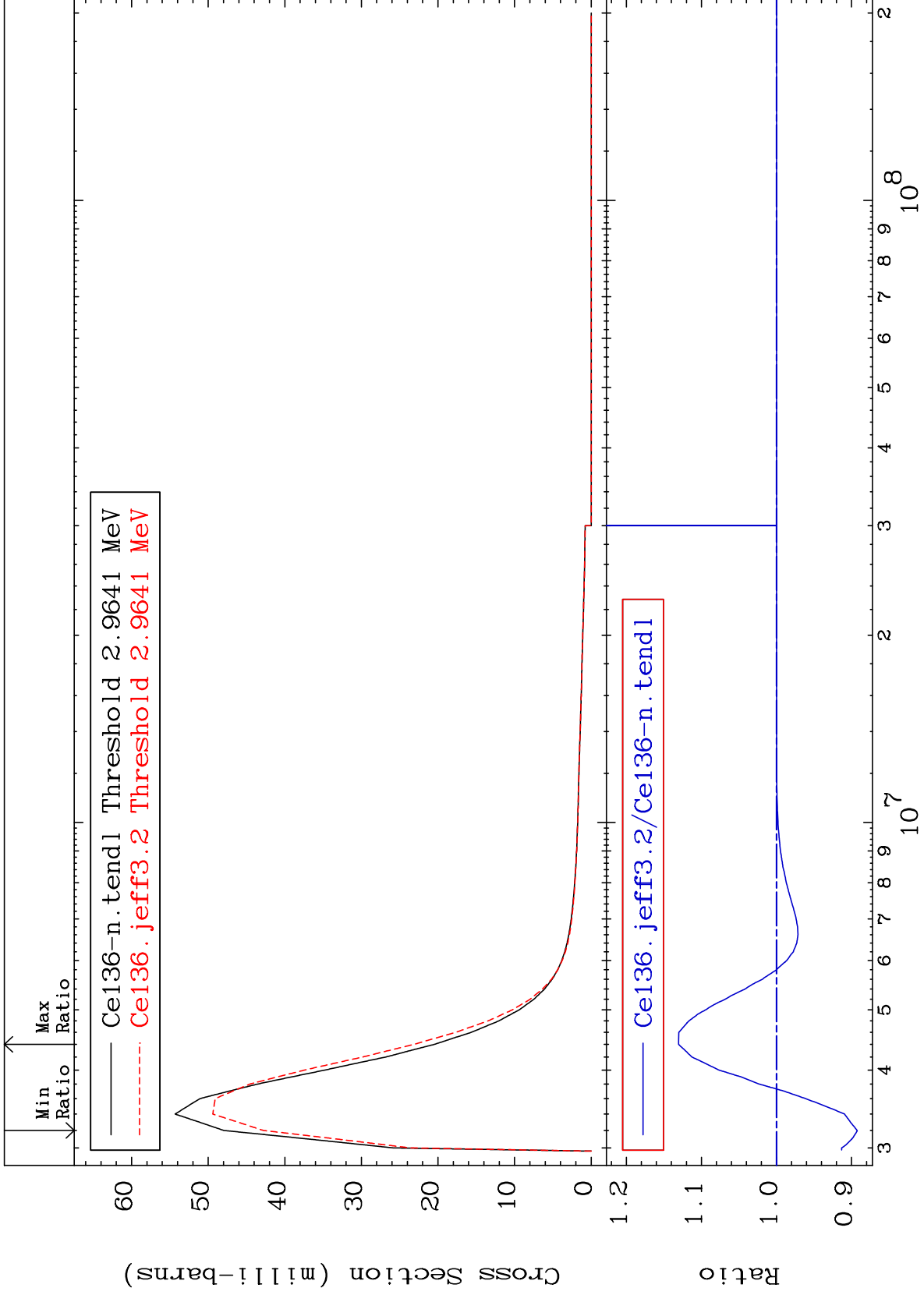
58-Ce-136
-13.83 To 9999. %



MAT 5825

2.942 MeV (n,n') Level
Cross Section

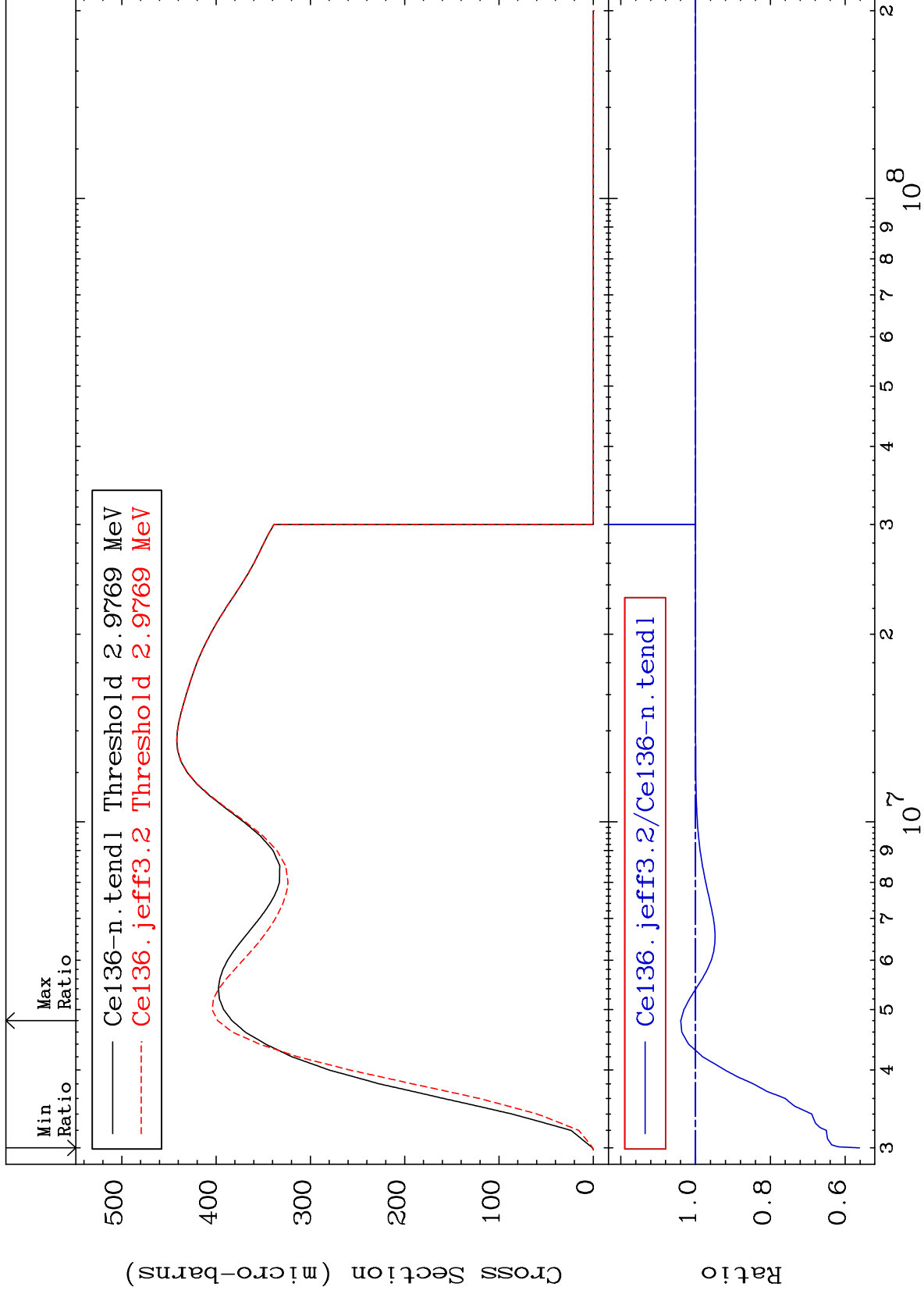
58-Ce-136
-10.76 To 13.04 %



MAT 5825

2.955 MeV (n,n') Level
Cross Section

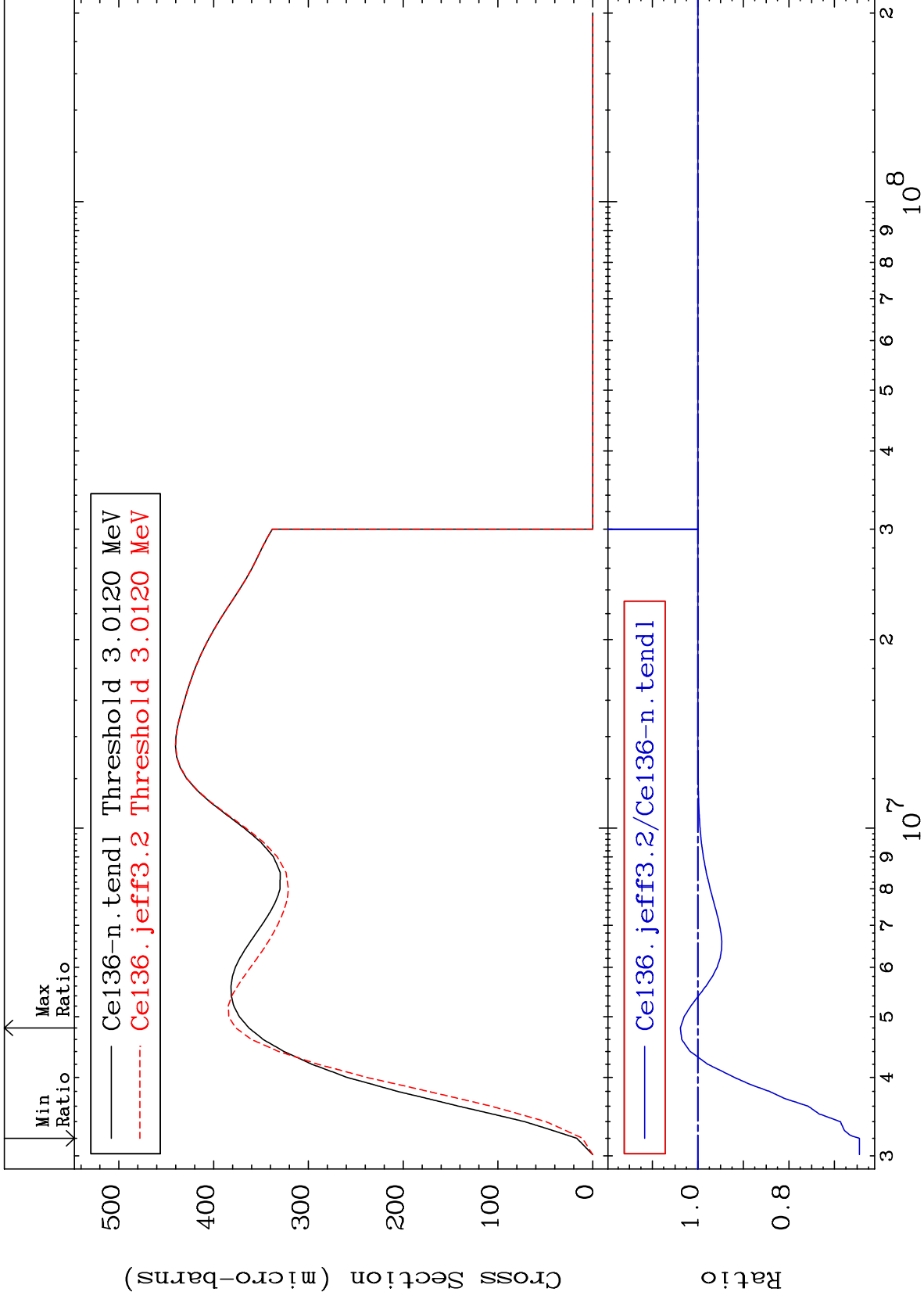
58-Ce-136
-43.85 To 3.948 %



MAT 5825

2.990 MeV (n,n') Level
Cross Section

58-Ce-136
-35.49 To 3.836 %



43

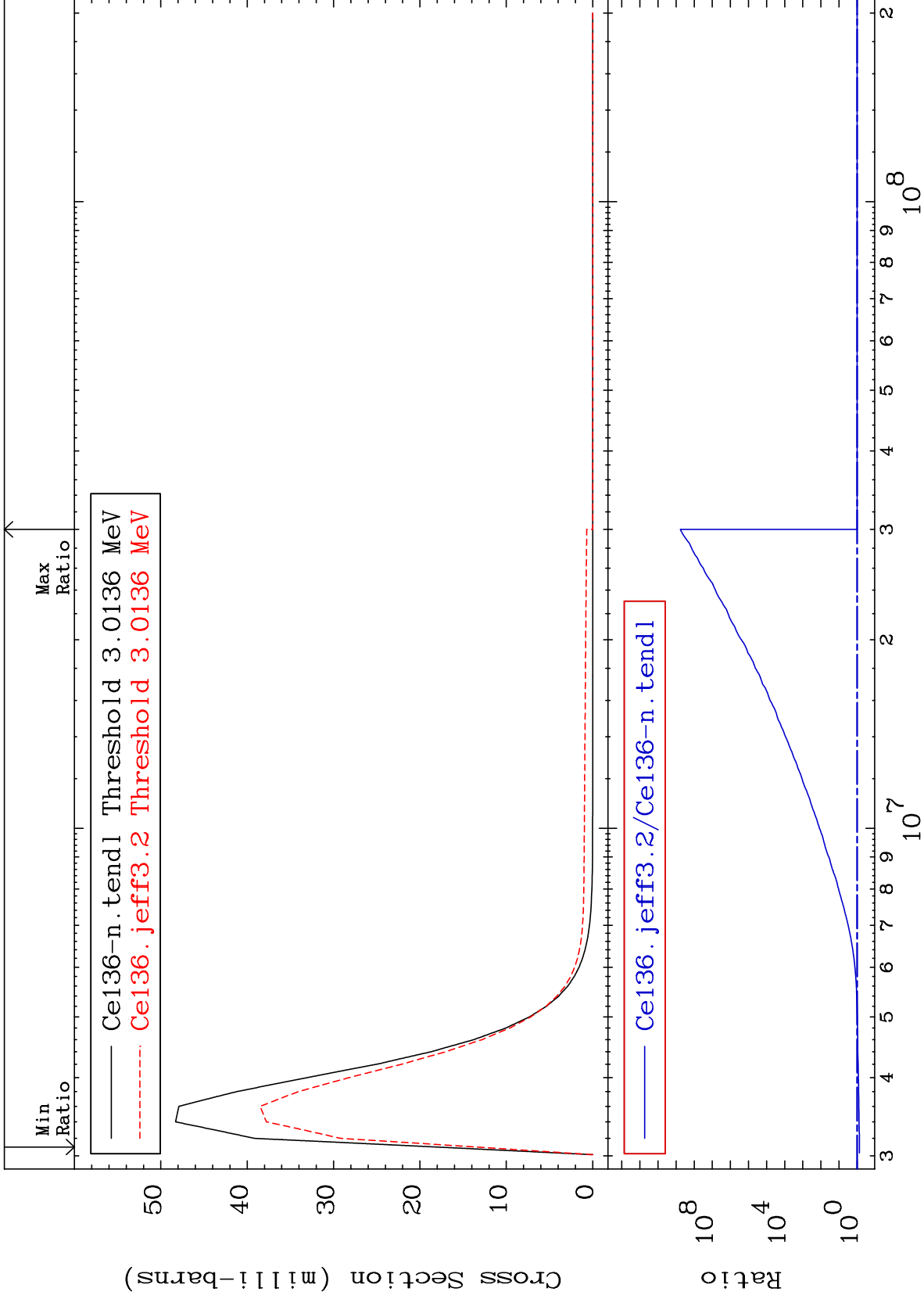
Incident Energy (eV)

58-Ce-136

MAT 5825

2.991 MeV (n,n') Level
Cross Section

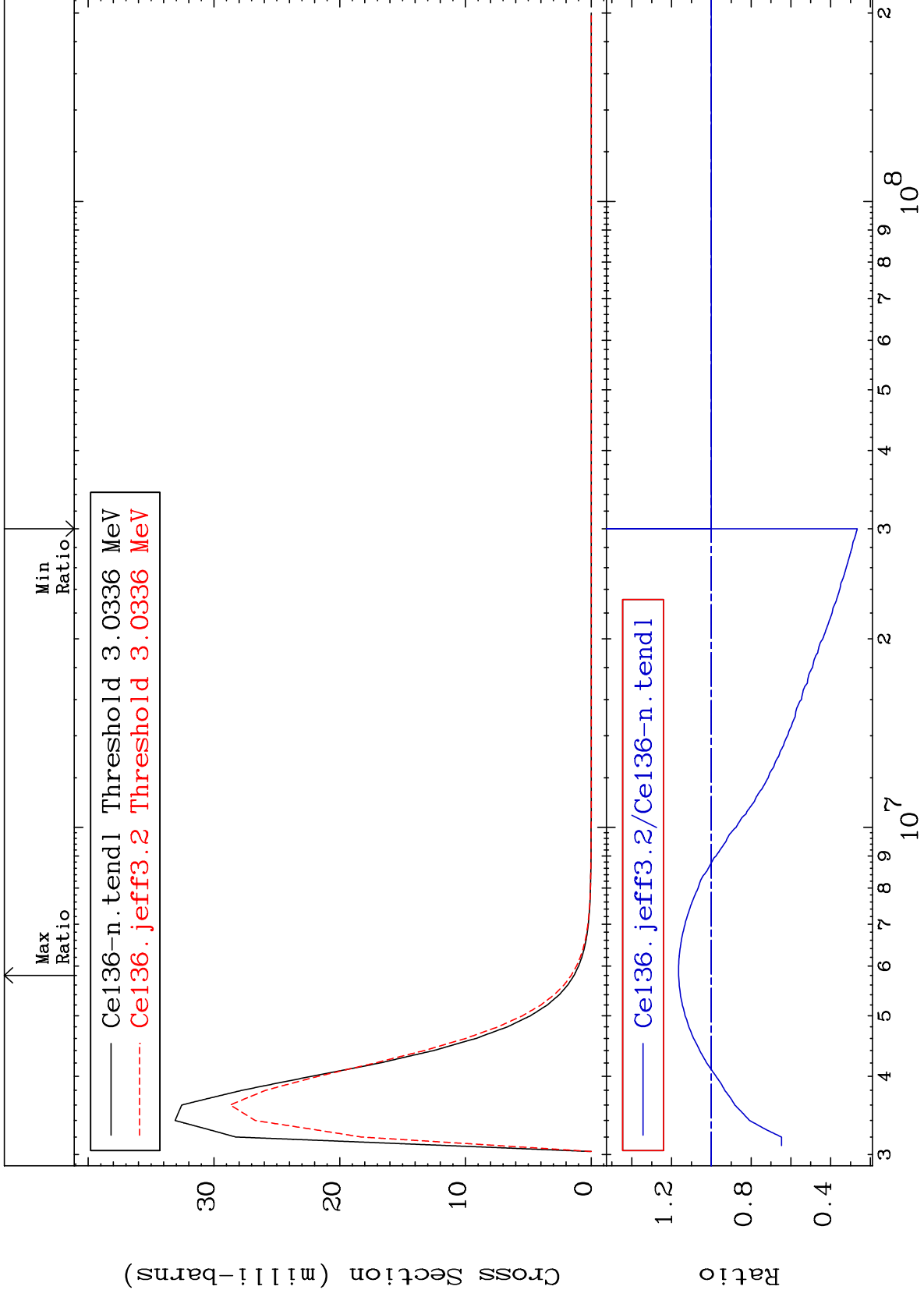
58-Ce-136
-25.54 To 9999. %



MAT 5825

3.011 MeV (n,n') Level
Cross Section

58-Ce-136
-73.39 To 16.43 %



45

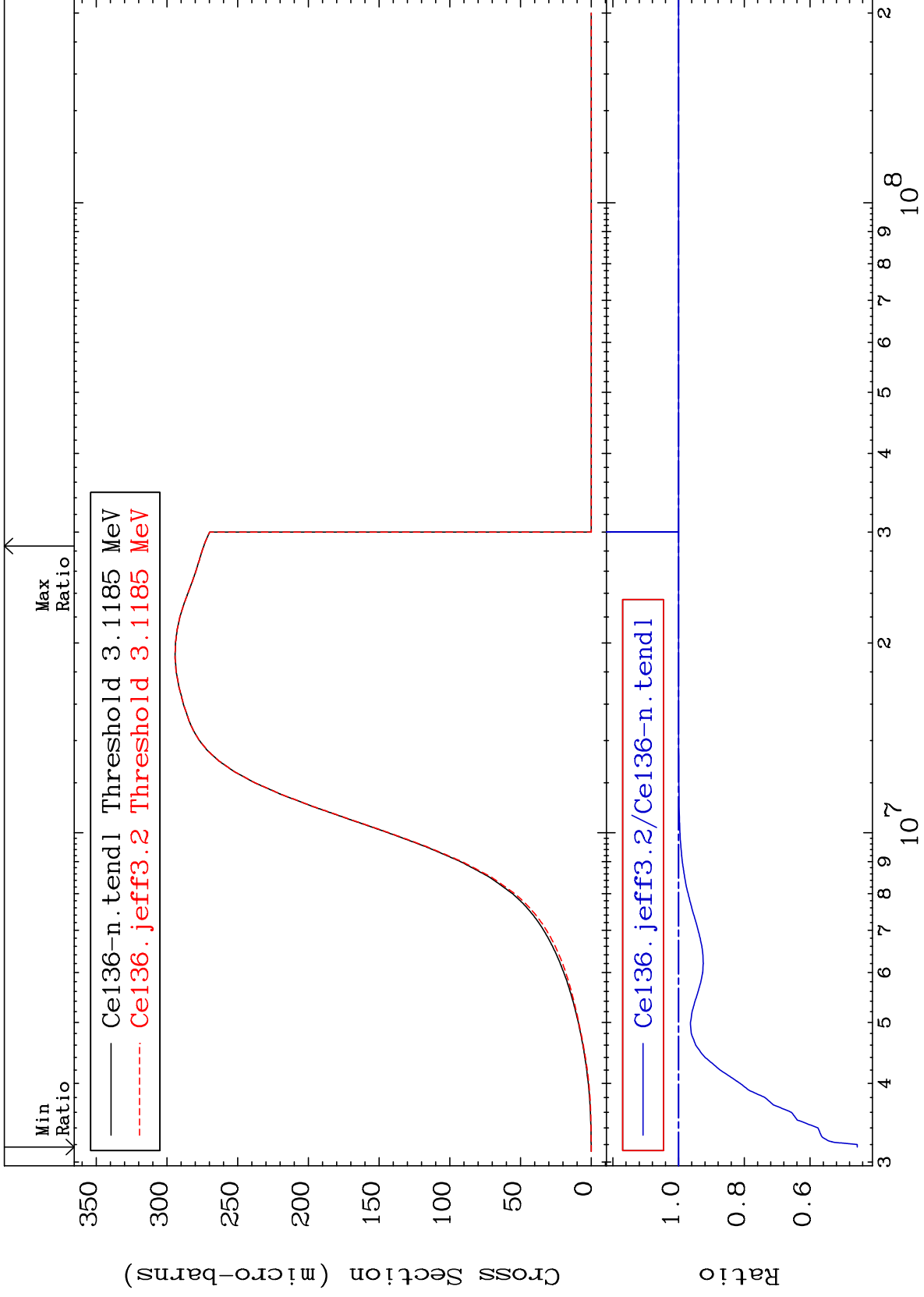
Incident Energy (eV)

58-Ce-136

MAT 5825

3.096 MeV (n,n') Level
Cross Section

58-Ce-136
-54.33 To 0.000 %



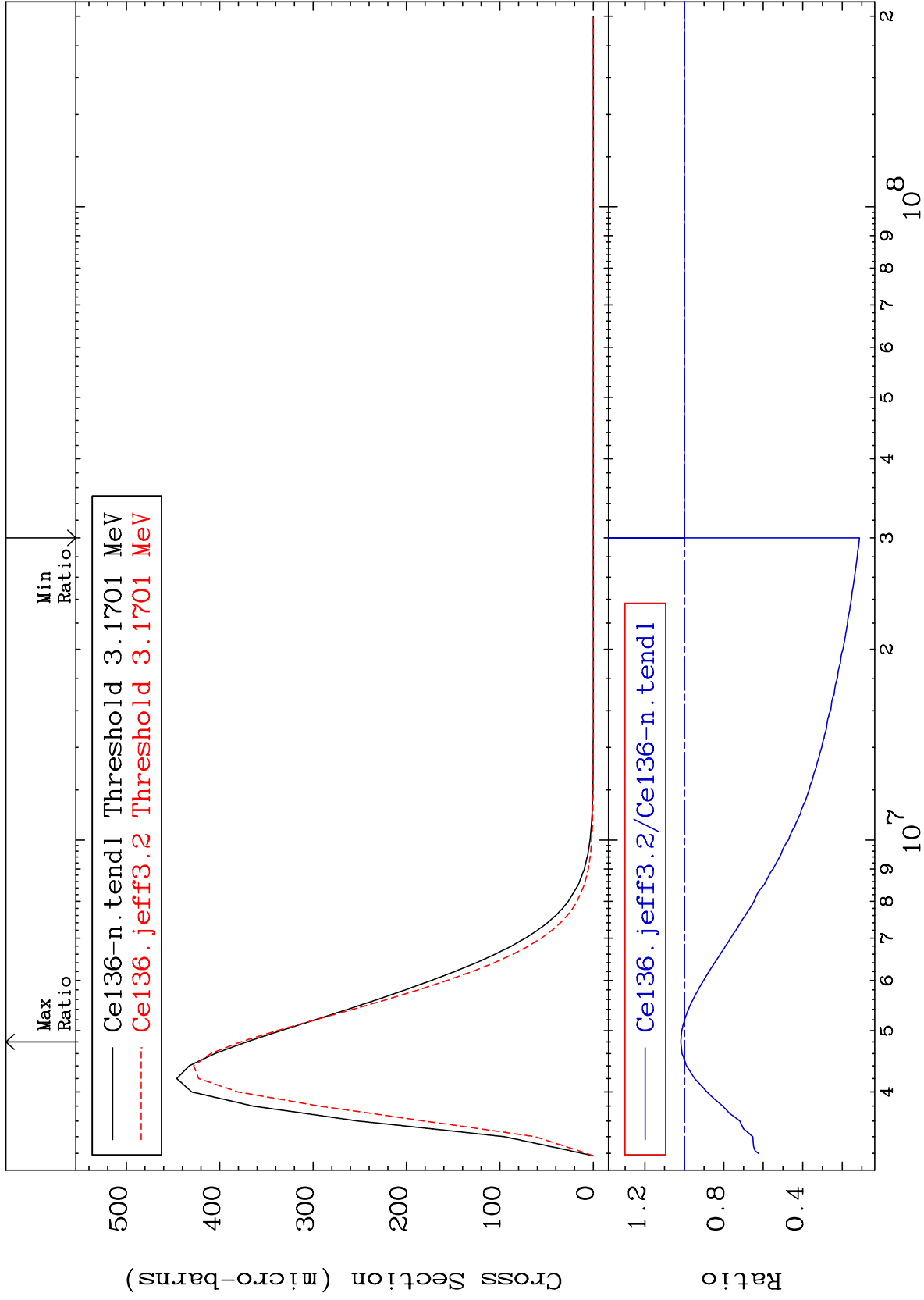
MAT 5825

3.147 MeV (n,n') Level

58-Ce-136

-88.81 To 1.796 %

Cross Section



47

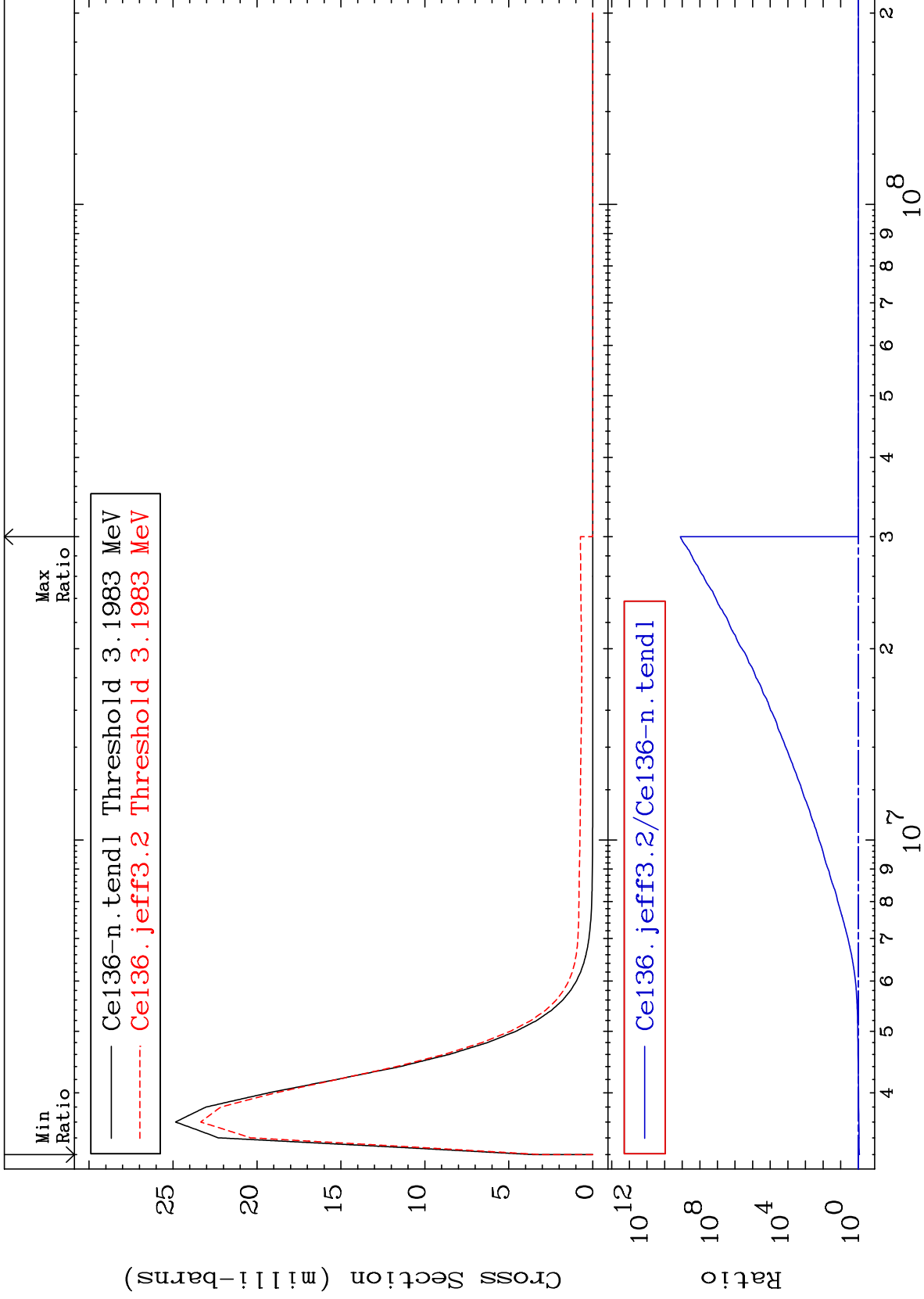
Incident Energy (eV)

58-Ce-136

MAT 5825

3.175 MeV (n,n') Level
Cross Section

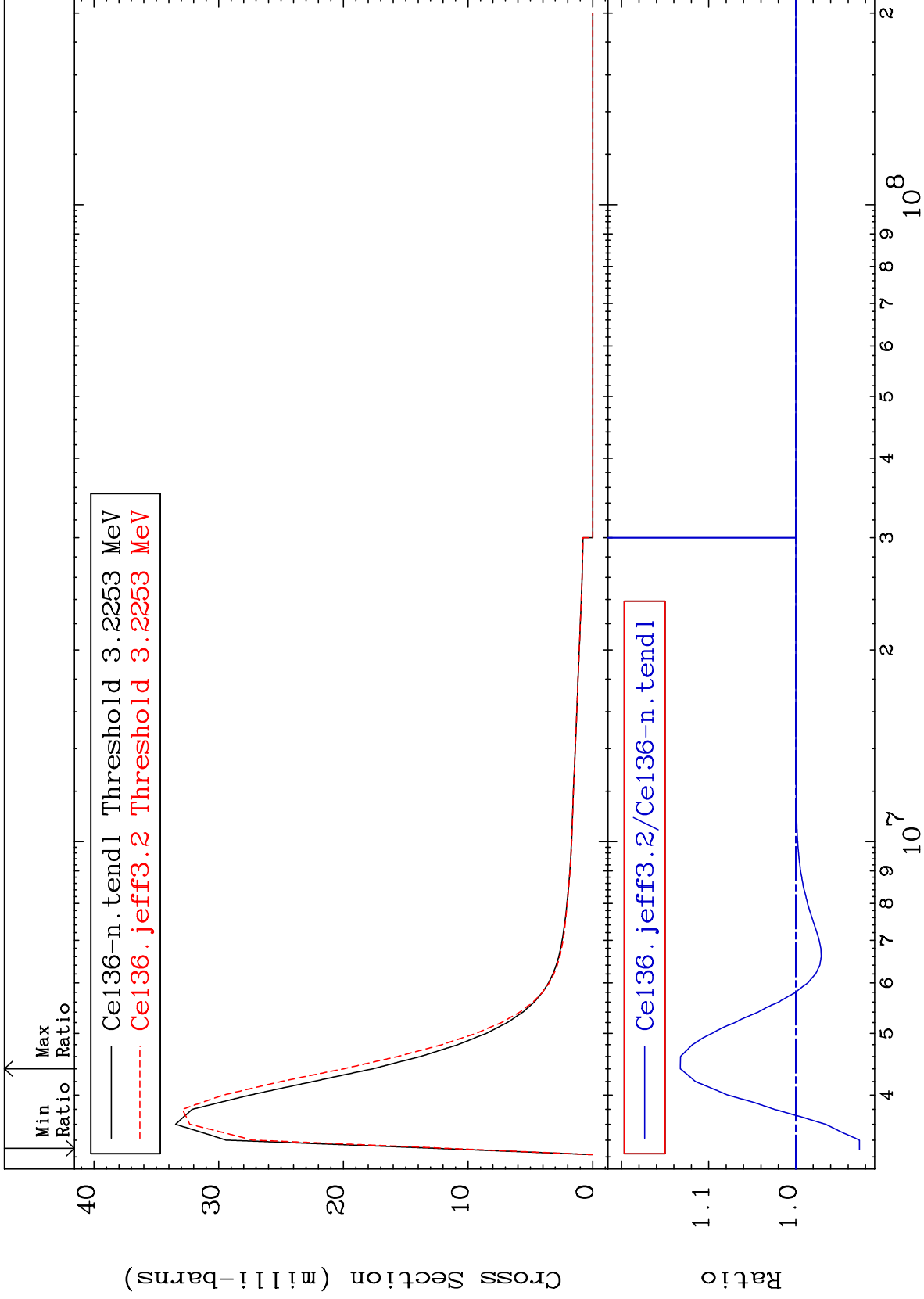
58-Ce-136
-13.41 To 9999. %

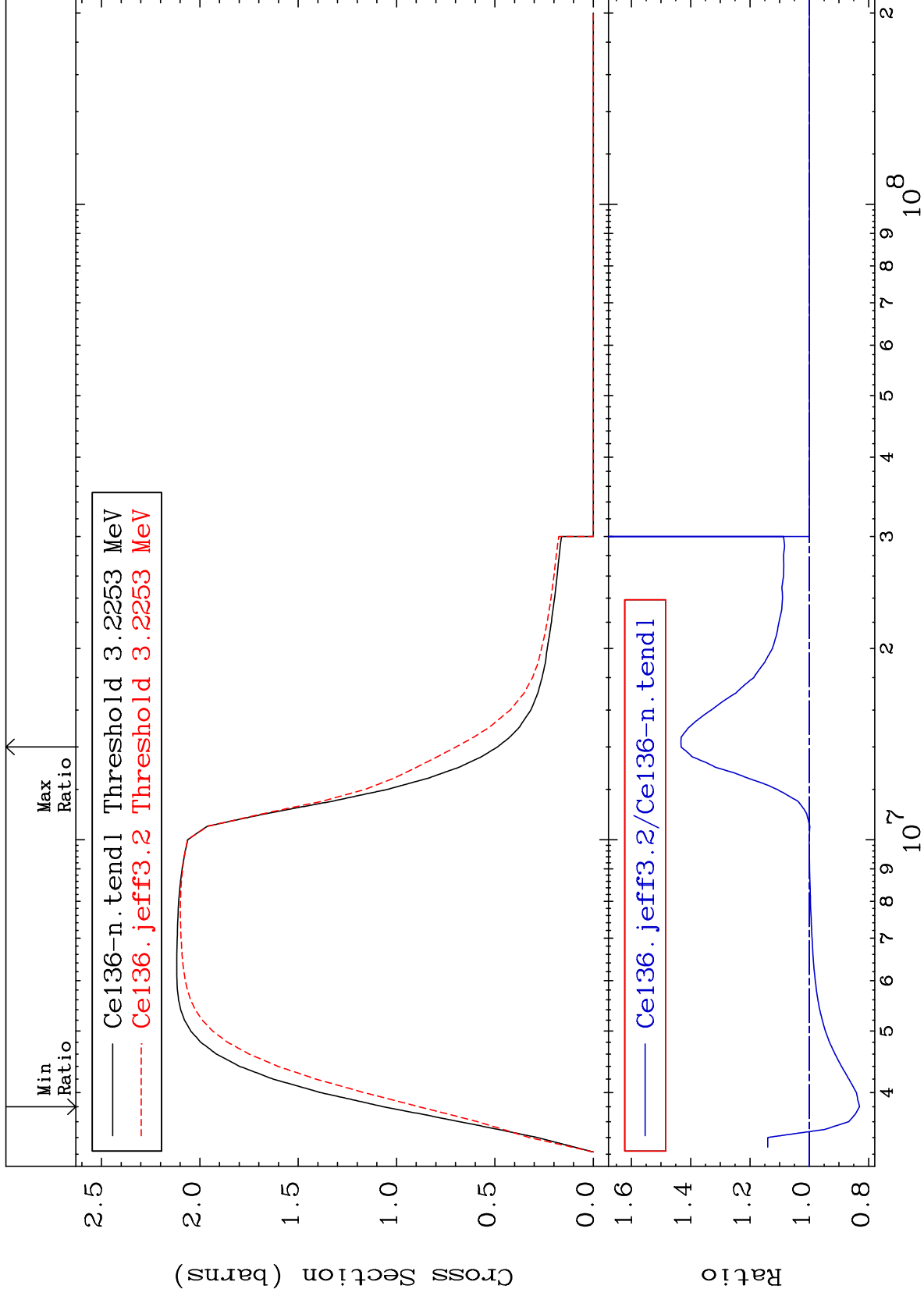


MAT 5825

3.202 MeV (n,n') Level
Cross Section

58-Ce-136
-7.305 To 13.25 %

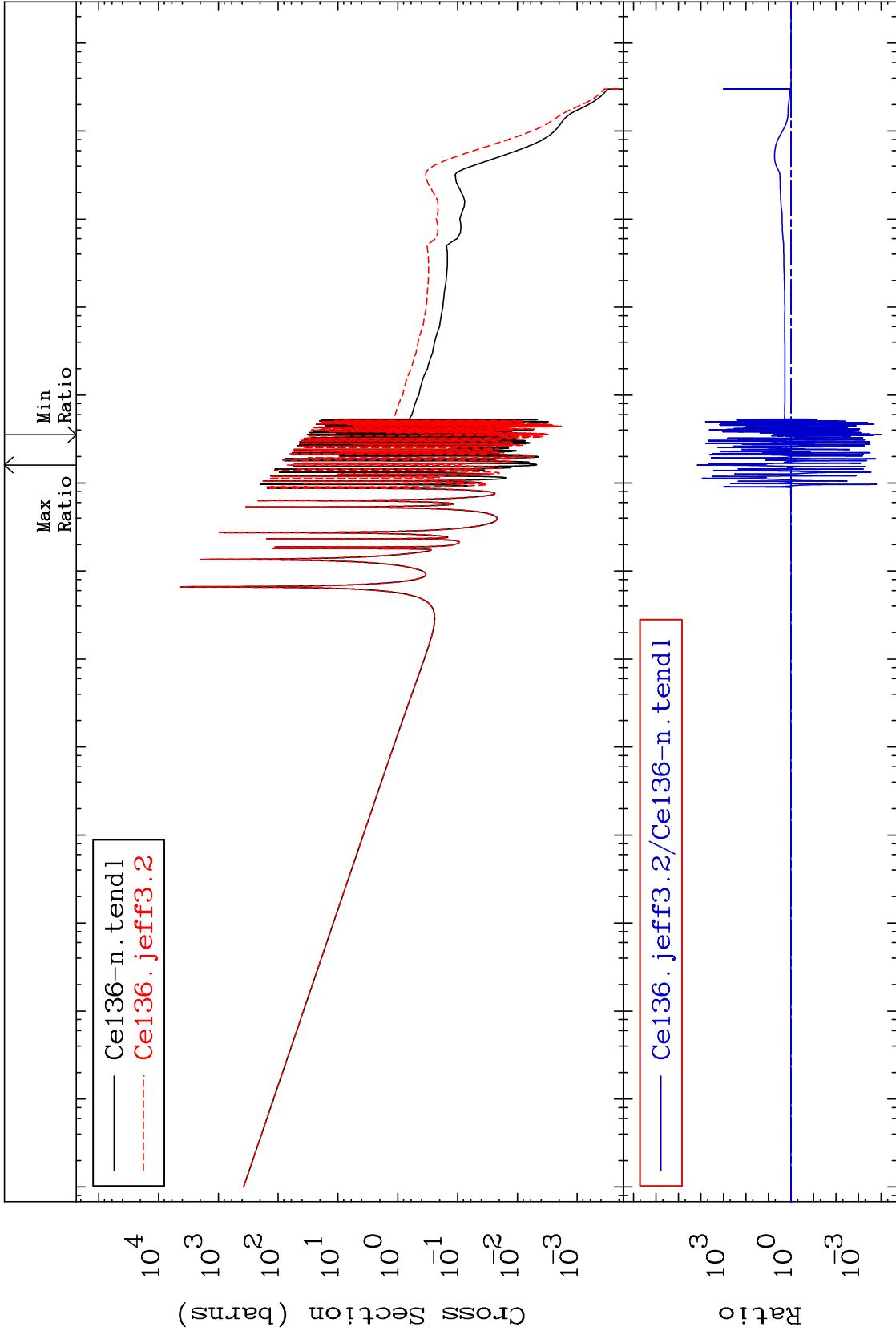




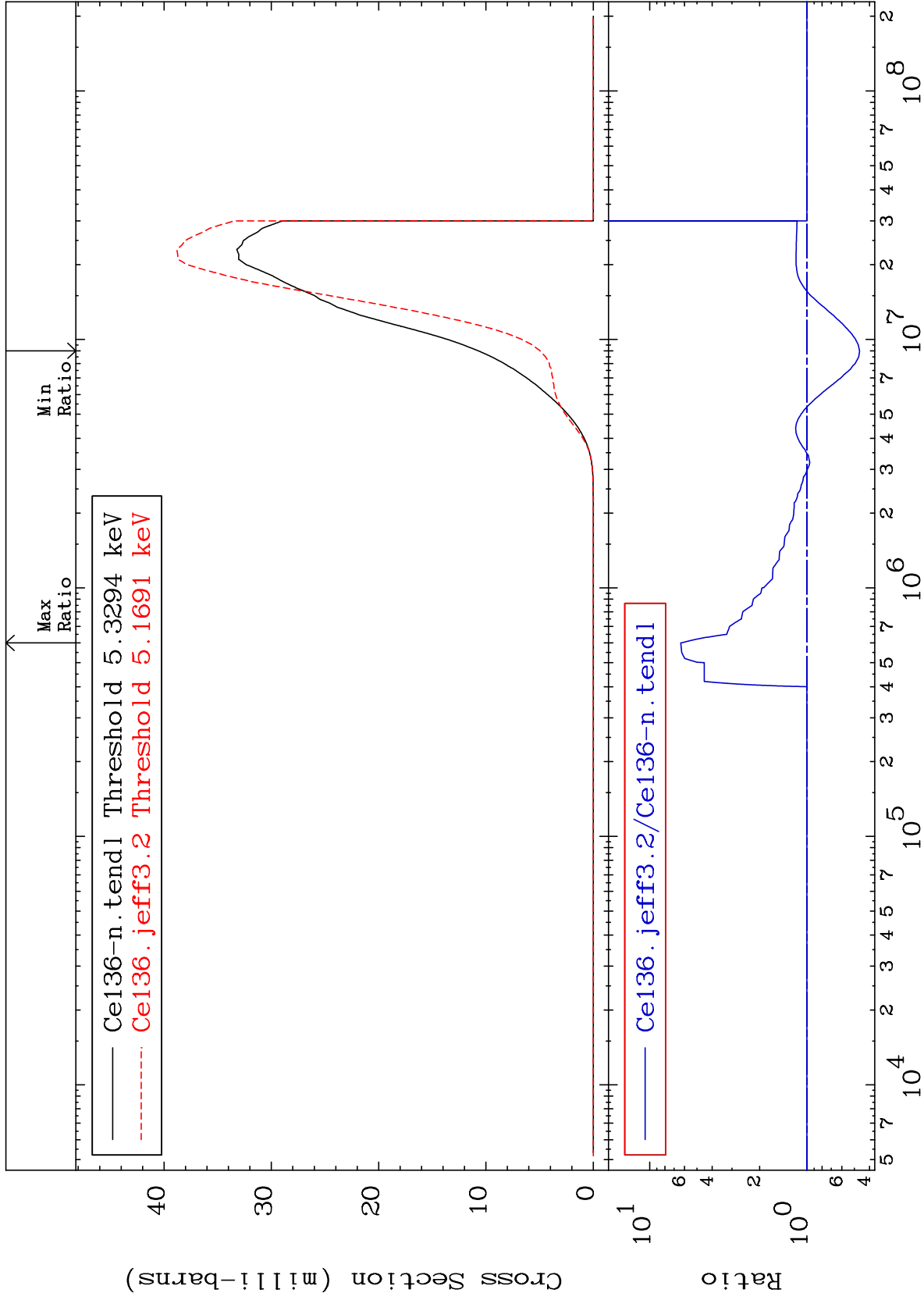
MAT 5825

(n, γ)
Cross Section

58-Ce-136
-99.99 To 9999. %



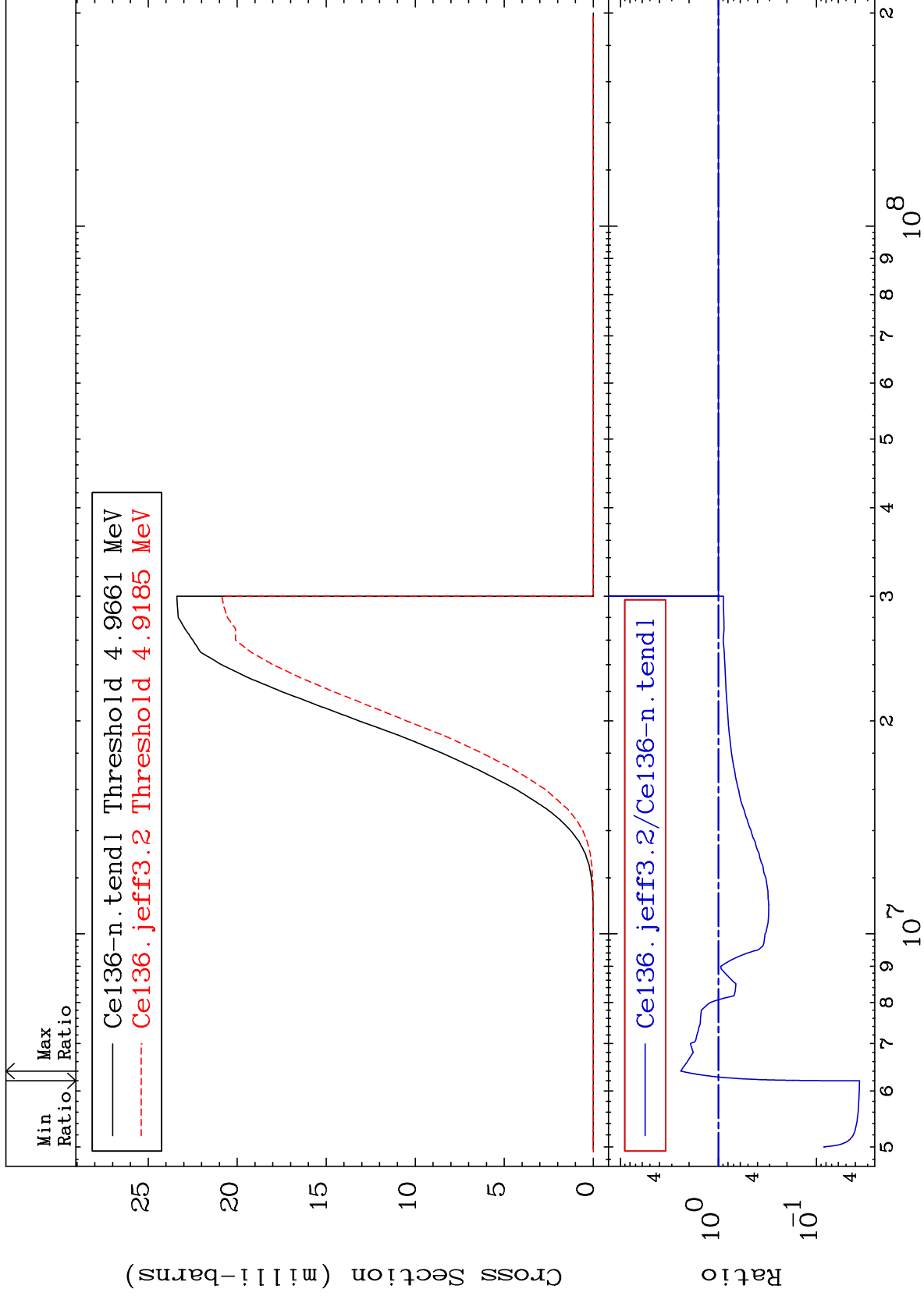
(n,p)
Cross Section
-53.74 To 533.8 %



MAT 5825

(n, d)
Cross Section

58-Ce-136
-96.37 To 142.5 %



53

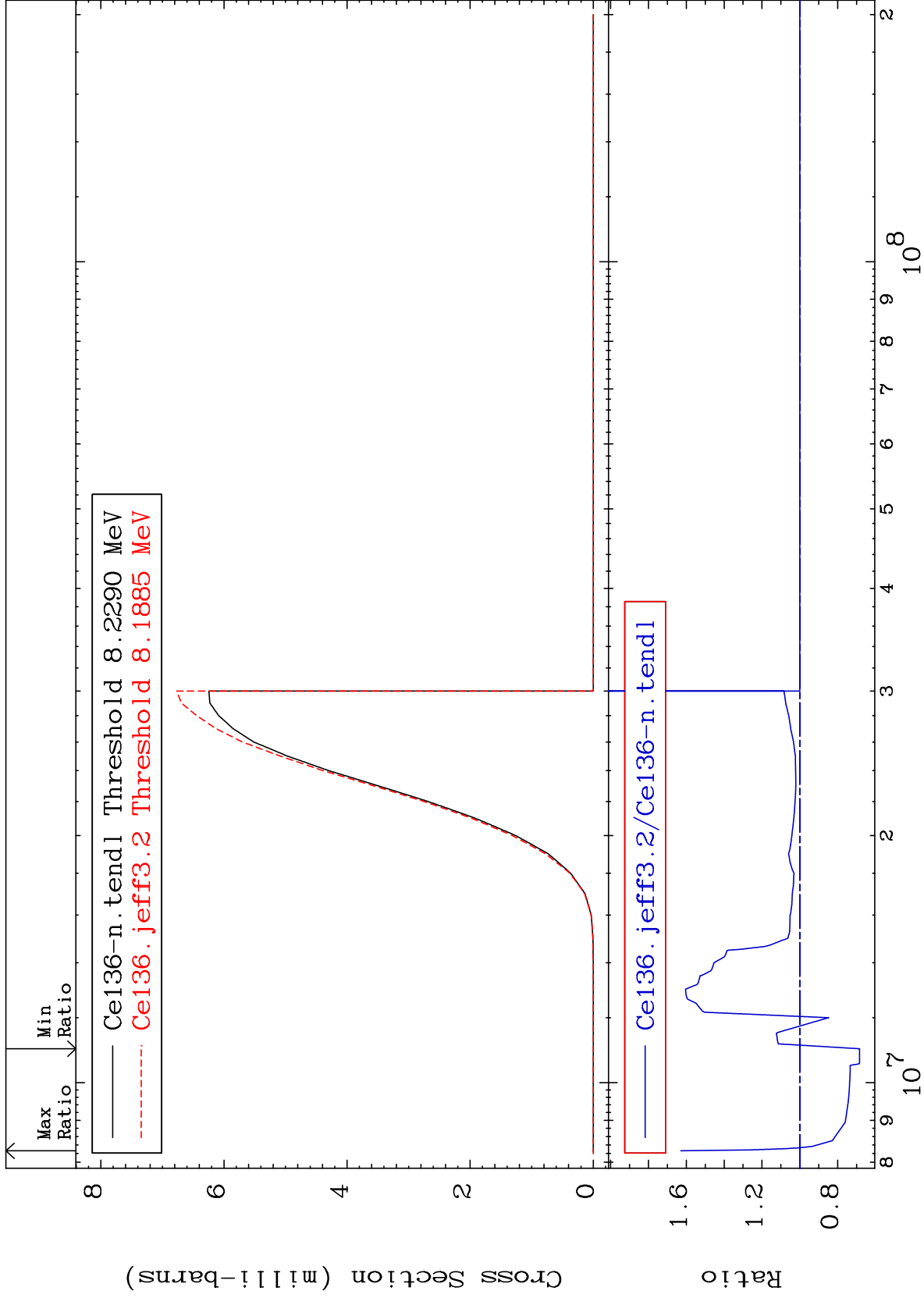
Incident Energy (eV)

58-Ce-136

MAT 5825

(n, t)
Cross Section

58-Ce-136
-31.58 To 62.92 %



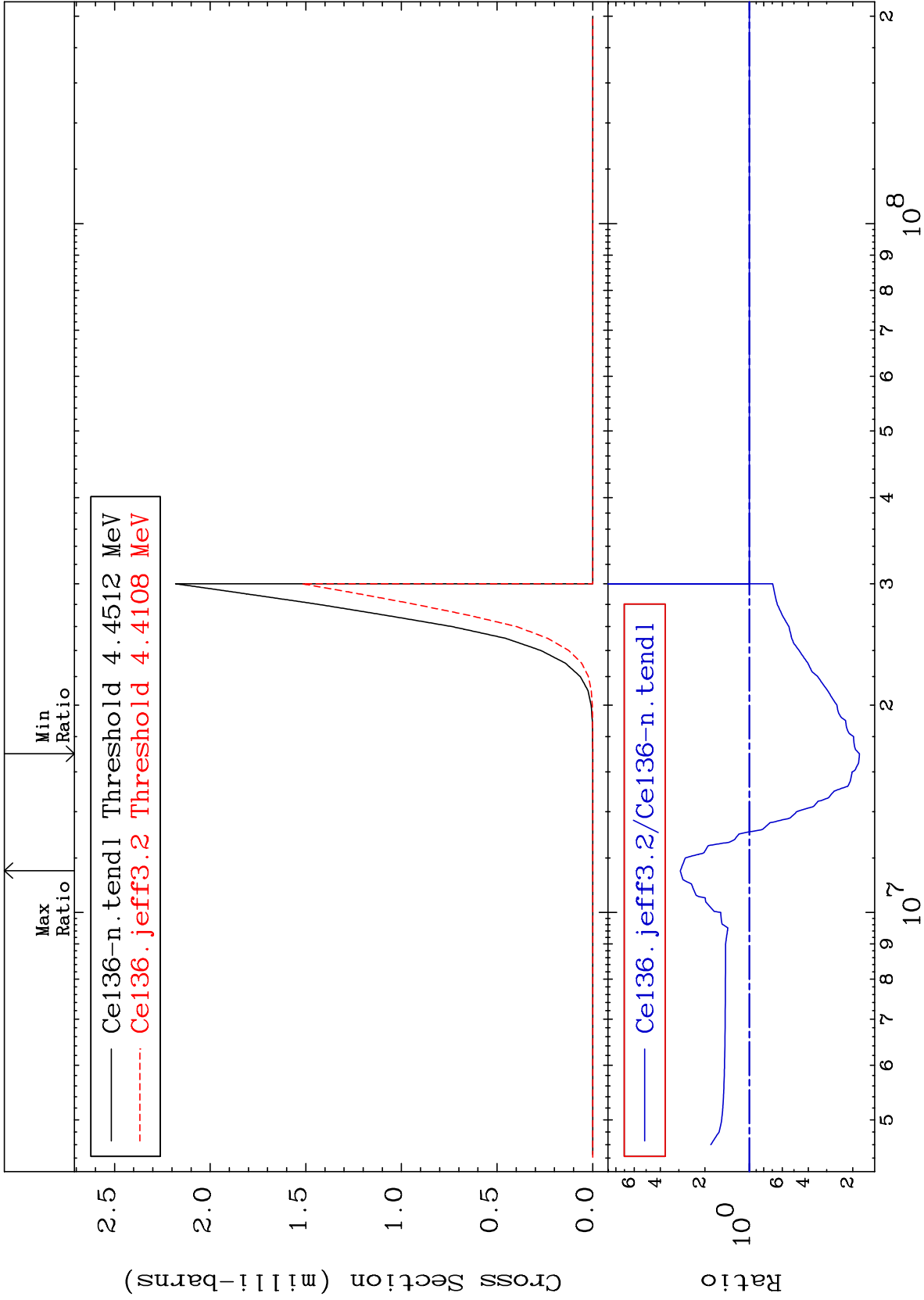
54

Incident Energy (eV)

58-Ce-136

Cross Section

-81.97 To 193.0 %



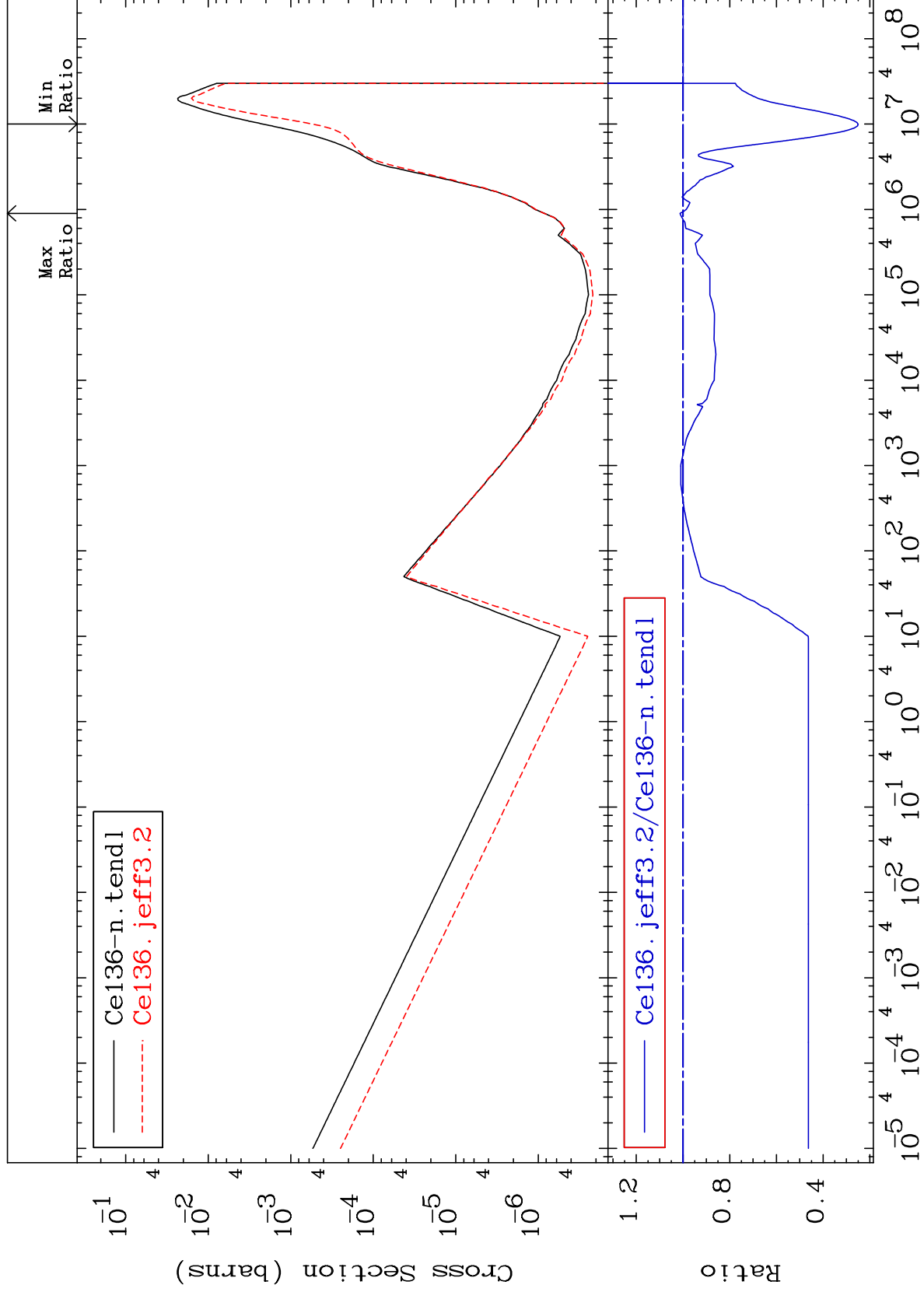
MAT 5825

(n, α)

58-Ce-136

Cross Section

-75.03 To 1.277 %



56

Incident Energy (eV)

58-Ce-136

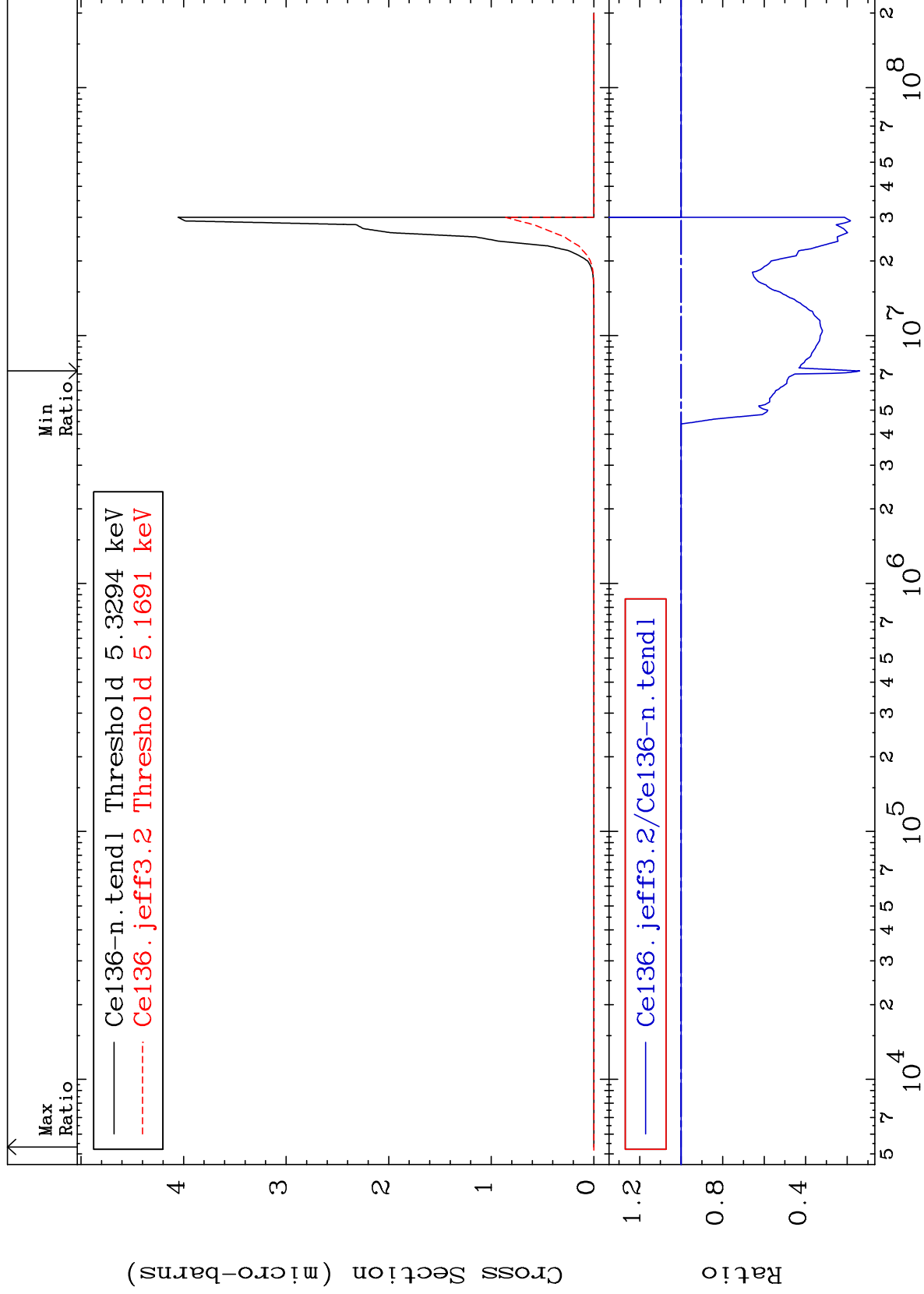
MAT 5825

(n,2α)

58-Ce-136

Cross Section

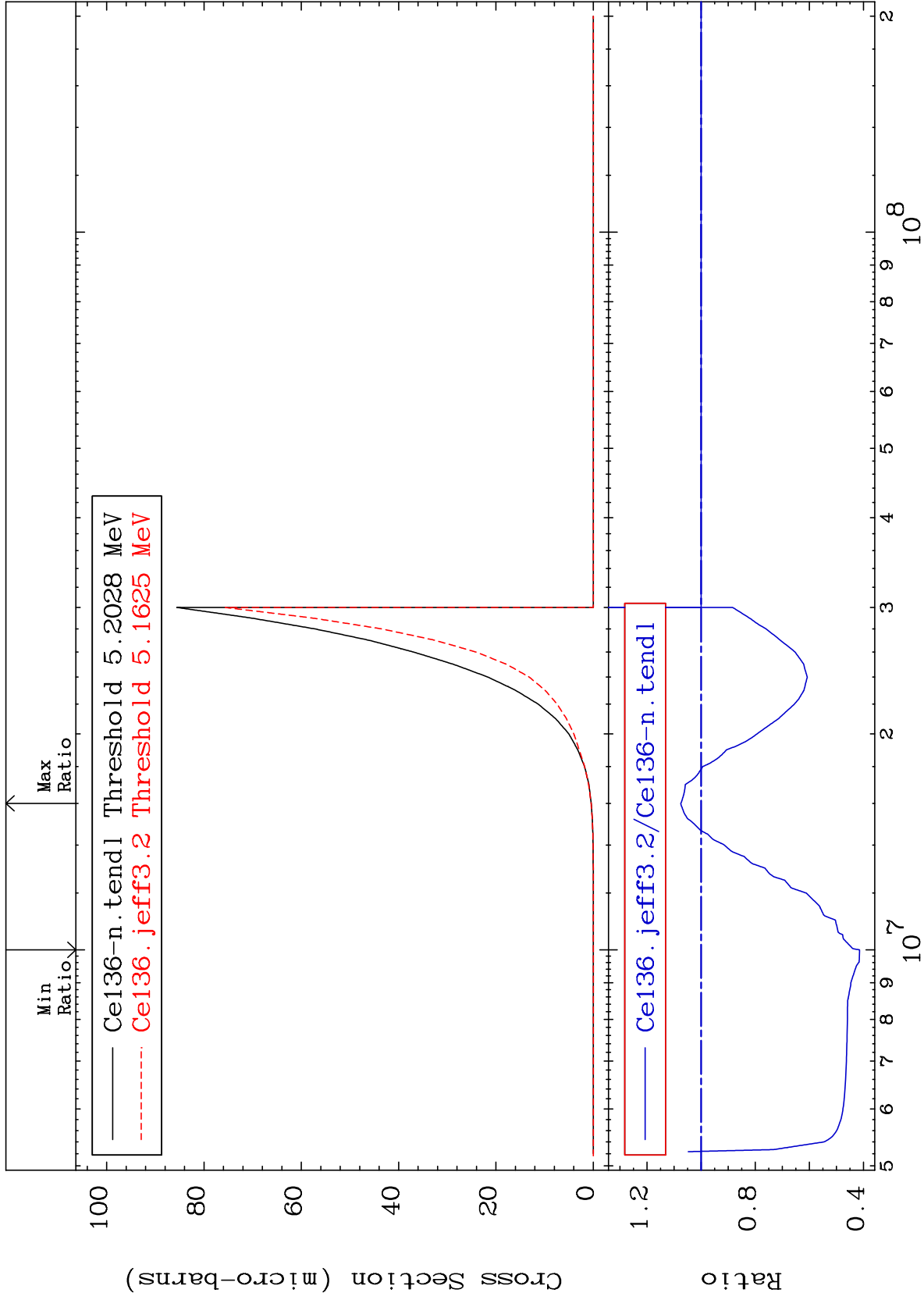
-86.02 To 0.000 %



MAT 5825

(n,2p)
Cross Section

58-Ce-136
-58.53 To 7.497 %



58

Incident Energy (eV)

58-Ce-136

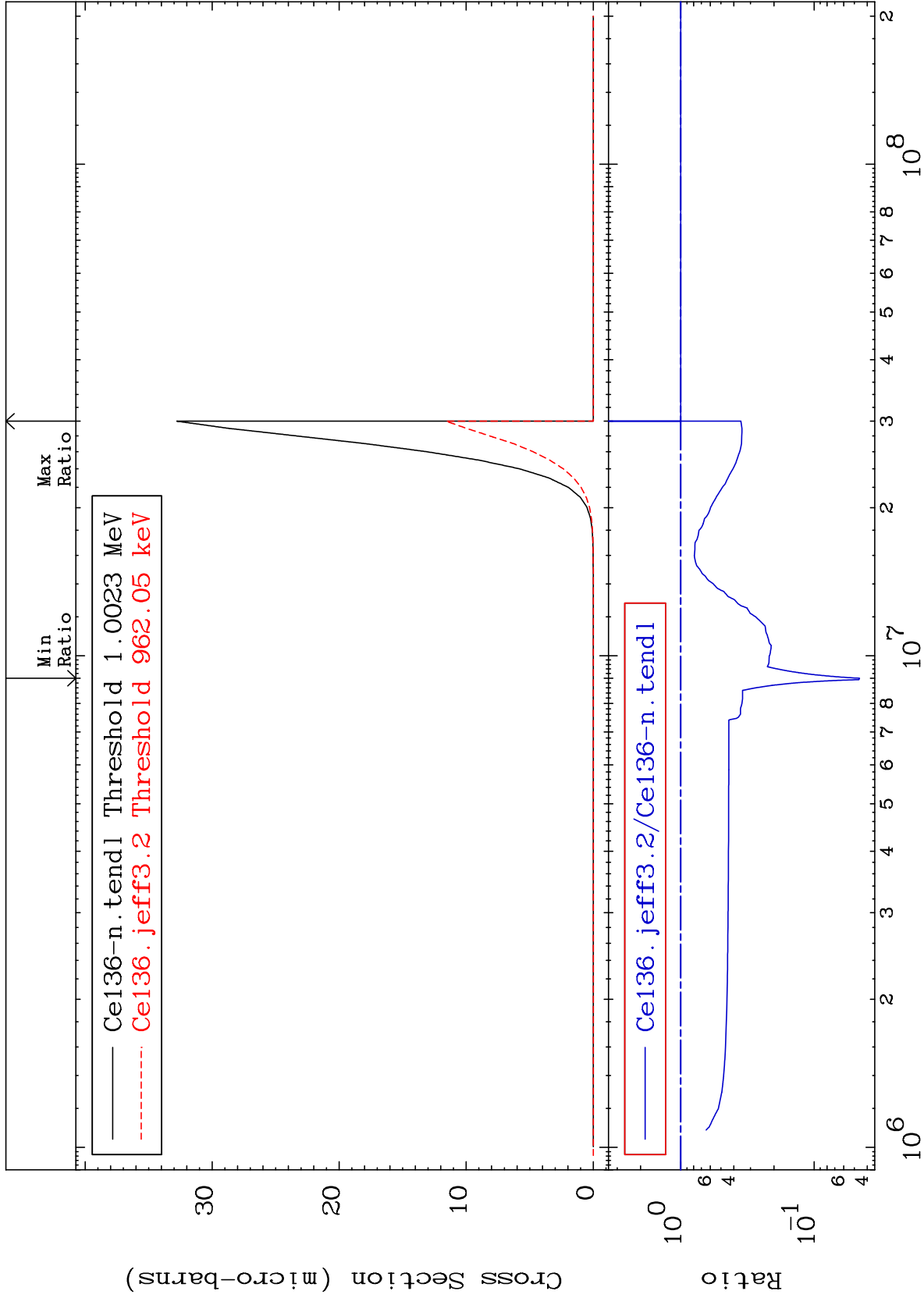
MAT 5825

58-Ce-136

(n, p) α

Cross Section

-95.44 To 0.000 %



59

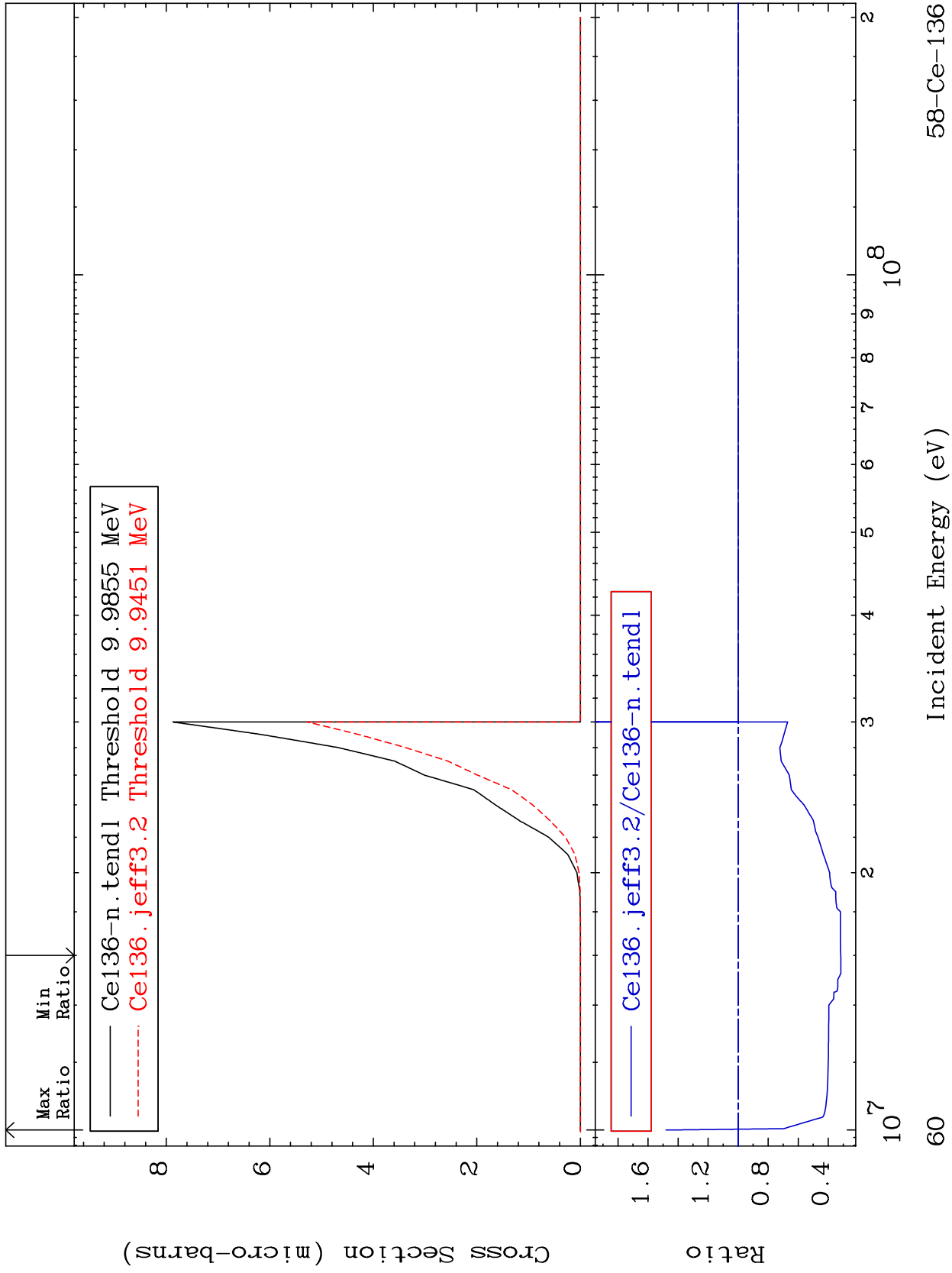
Incident Energy (eV)

58-Ce-136

MAT 5825

(n,p) d
Cross Section

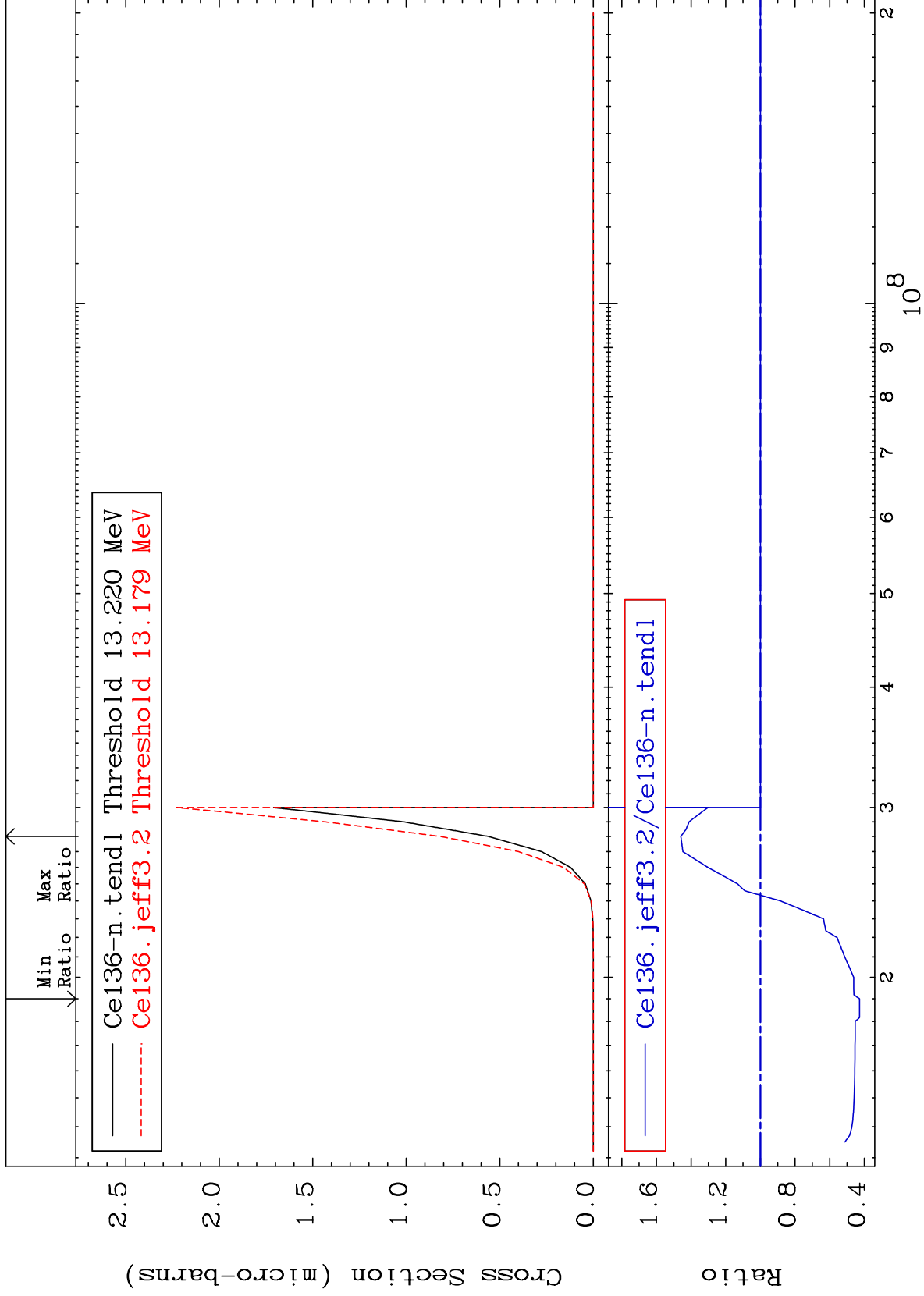
58-Ce-136
-68.41 To 48.06 %



MAT 5825

(n, p) t
Cross Section

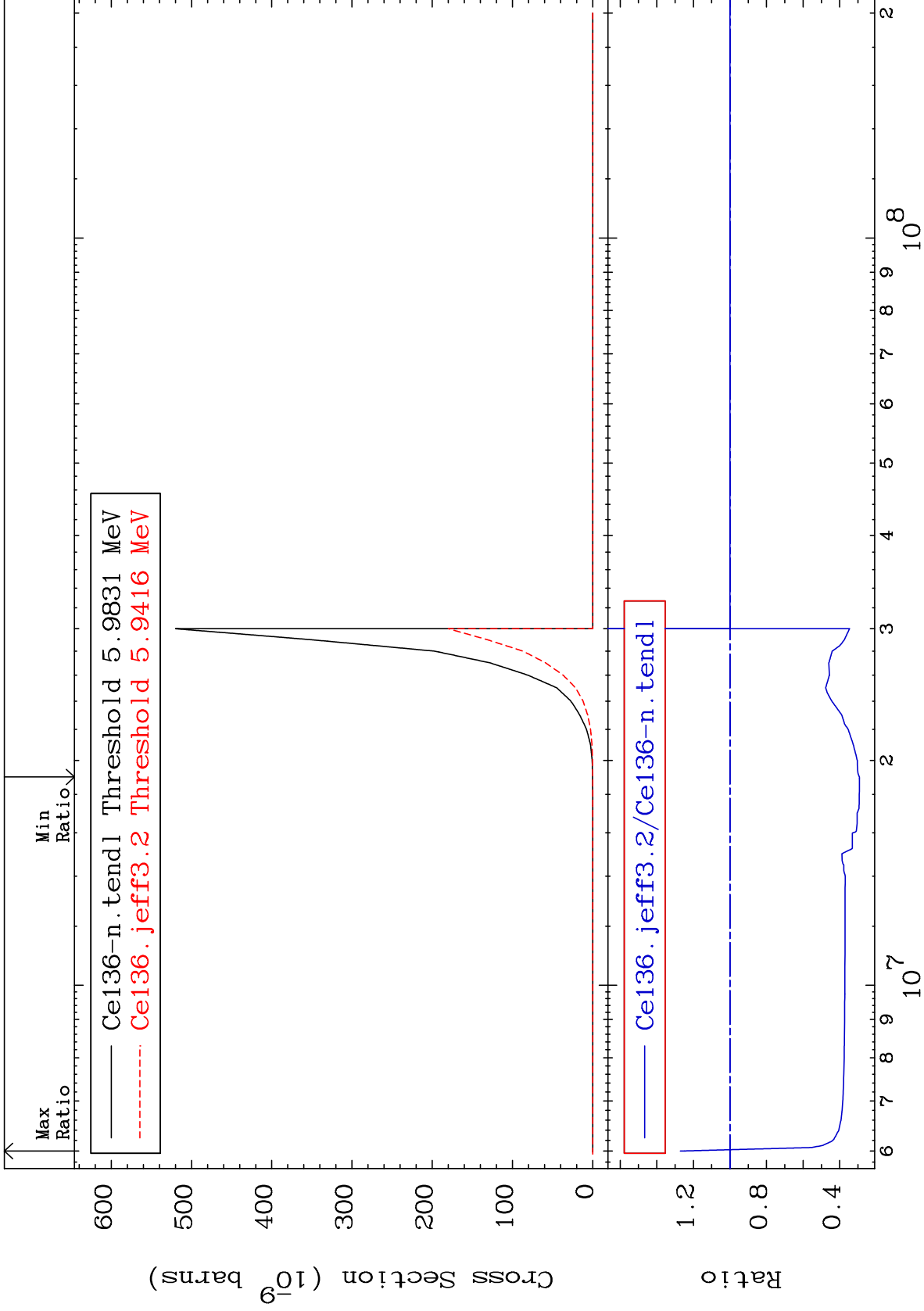
58-Ce-136
-57.22 To 45.96 %



MAT 5825

(n, d) α
Cross Section

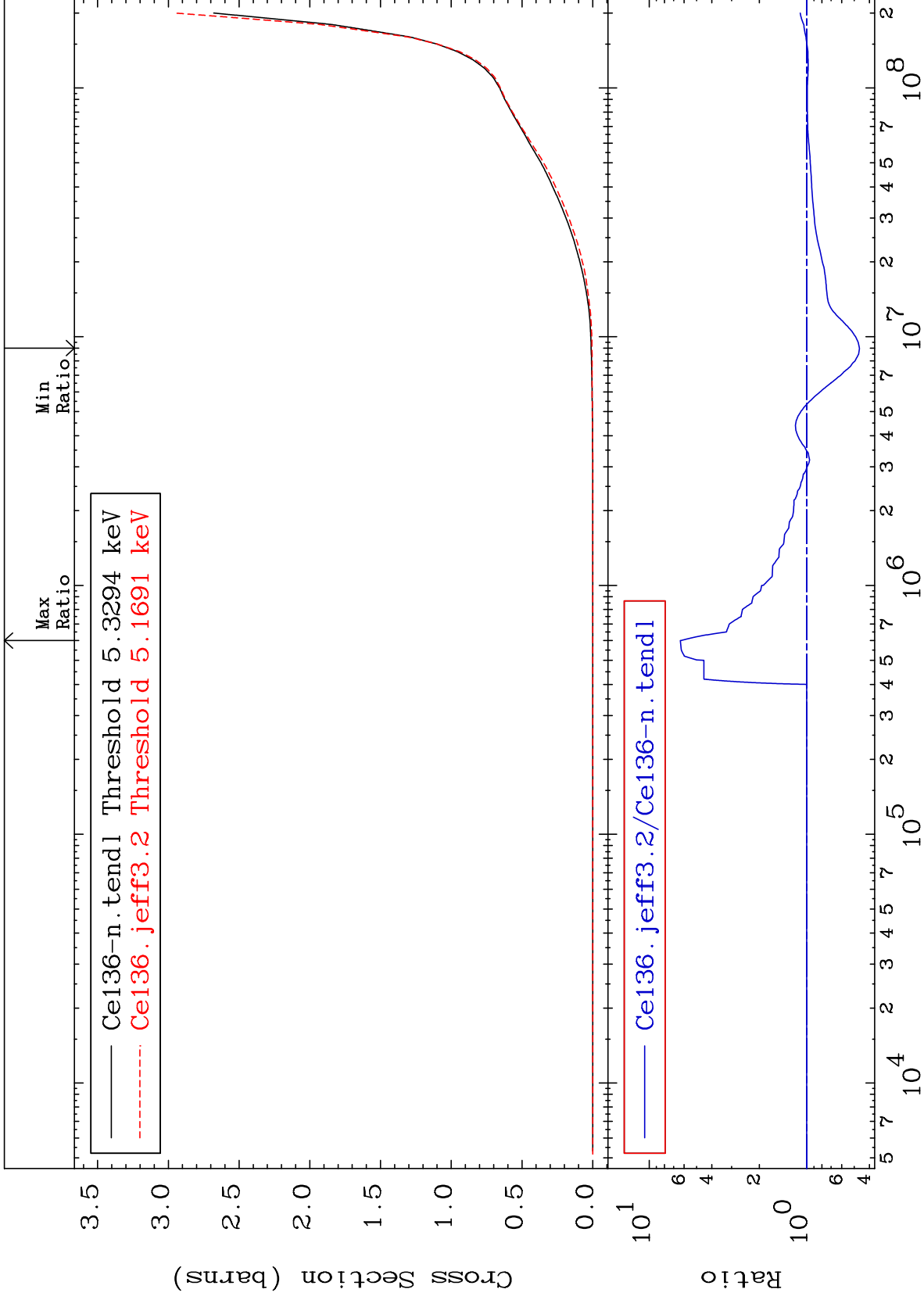
58-Ce-136
-70.81 To 27.11 %



62

Incident Energy (eV)

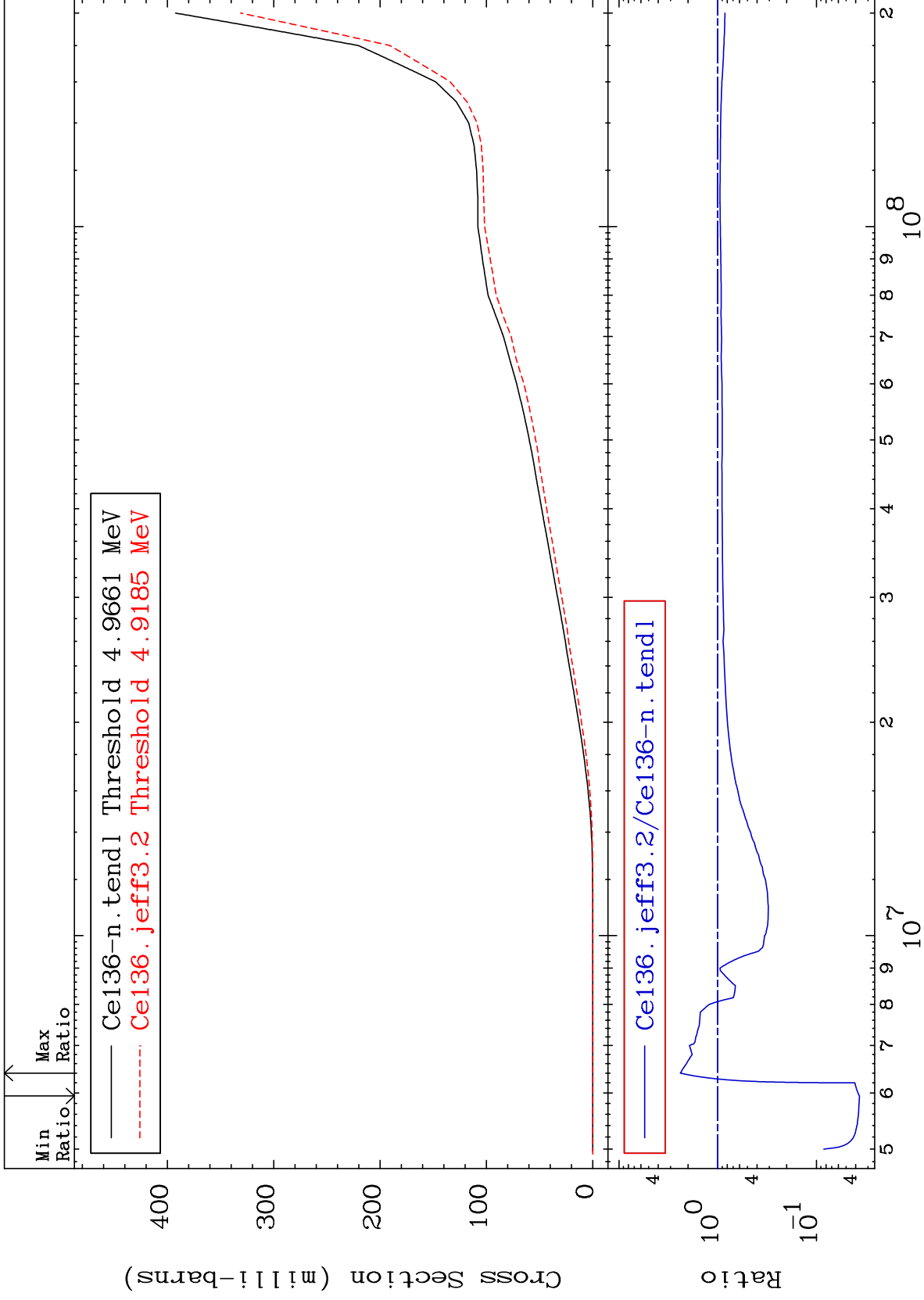
58-Ce-136



MAT 5825

Deuterium Production
Cross Section

58-Ce-136
-96.33 To 138.7 %



64

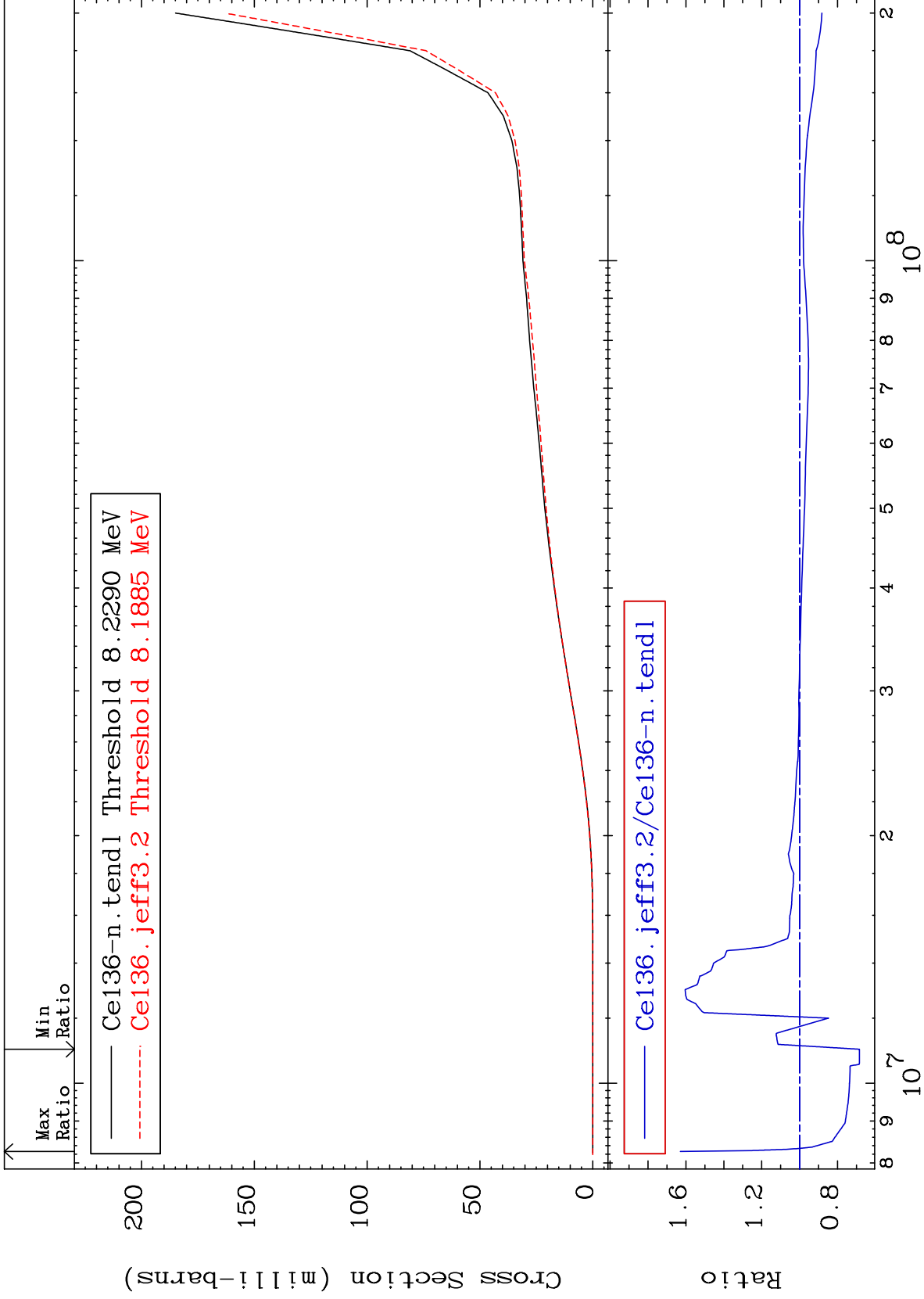
Incident Energy (eV)

58-Ce-136

MAT 5825

Tritium Production
Cross Section

58-Ce-136
-31.58 To 62.92 %



65

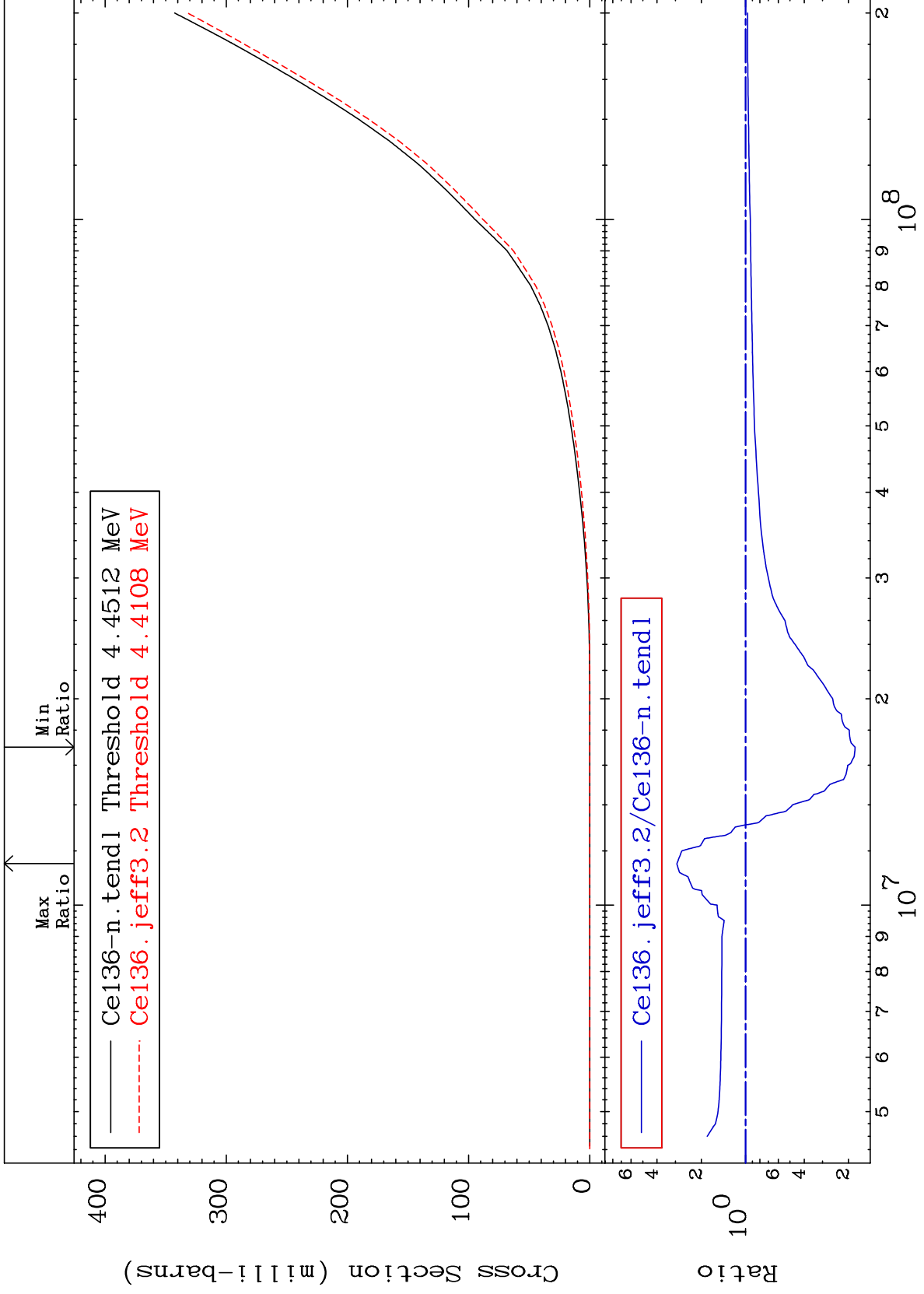
Incident Energy (eV)

58-Ce-136

MAT 5825

He-3 Production
Cross Section

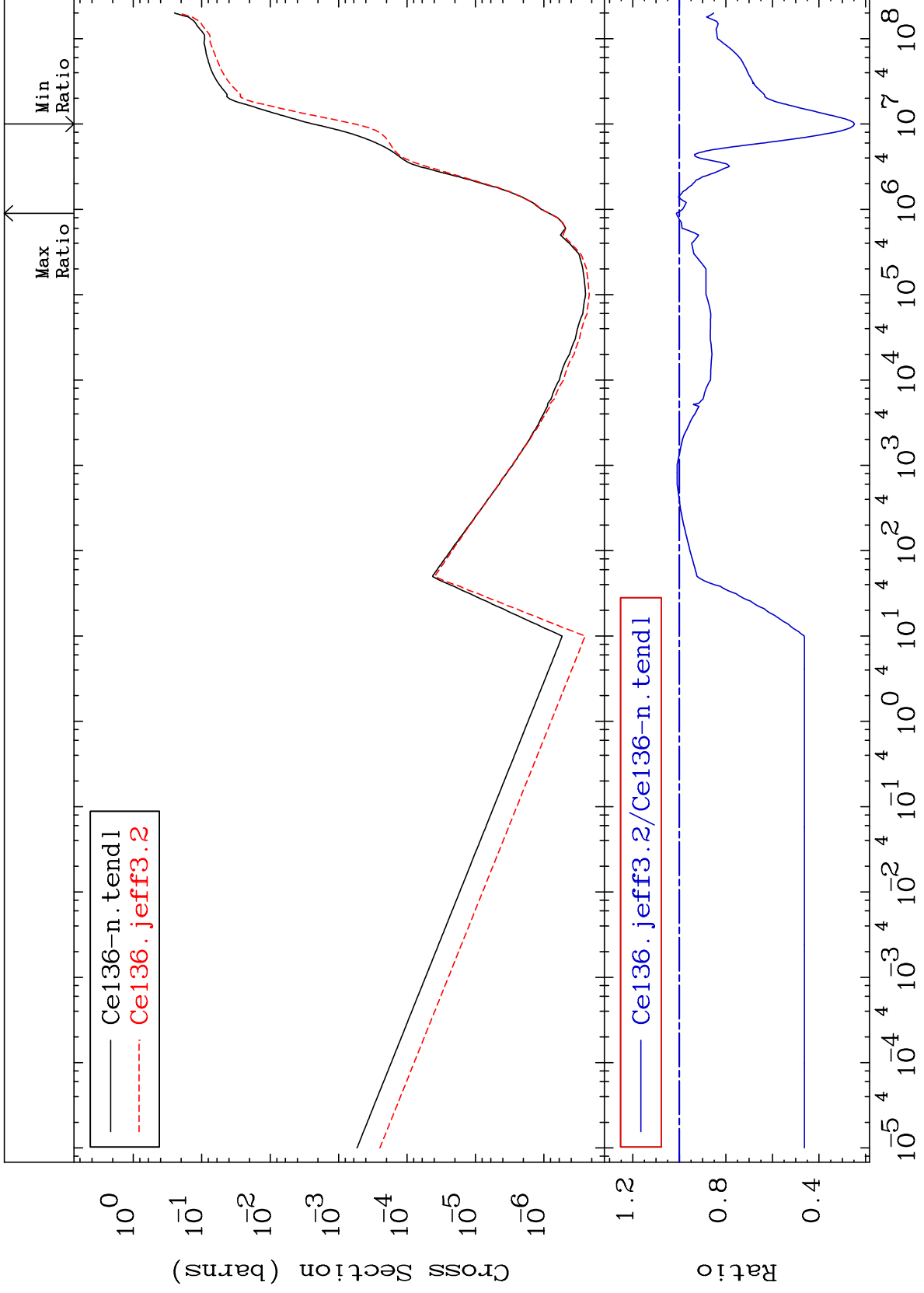
58-Ce-136
-81.97 To 193.0 %



MAT 5825

He-4 Production
Cross Section

58-Ce-136
-75.20 To 1.277 %



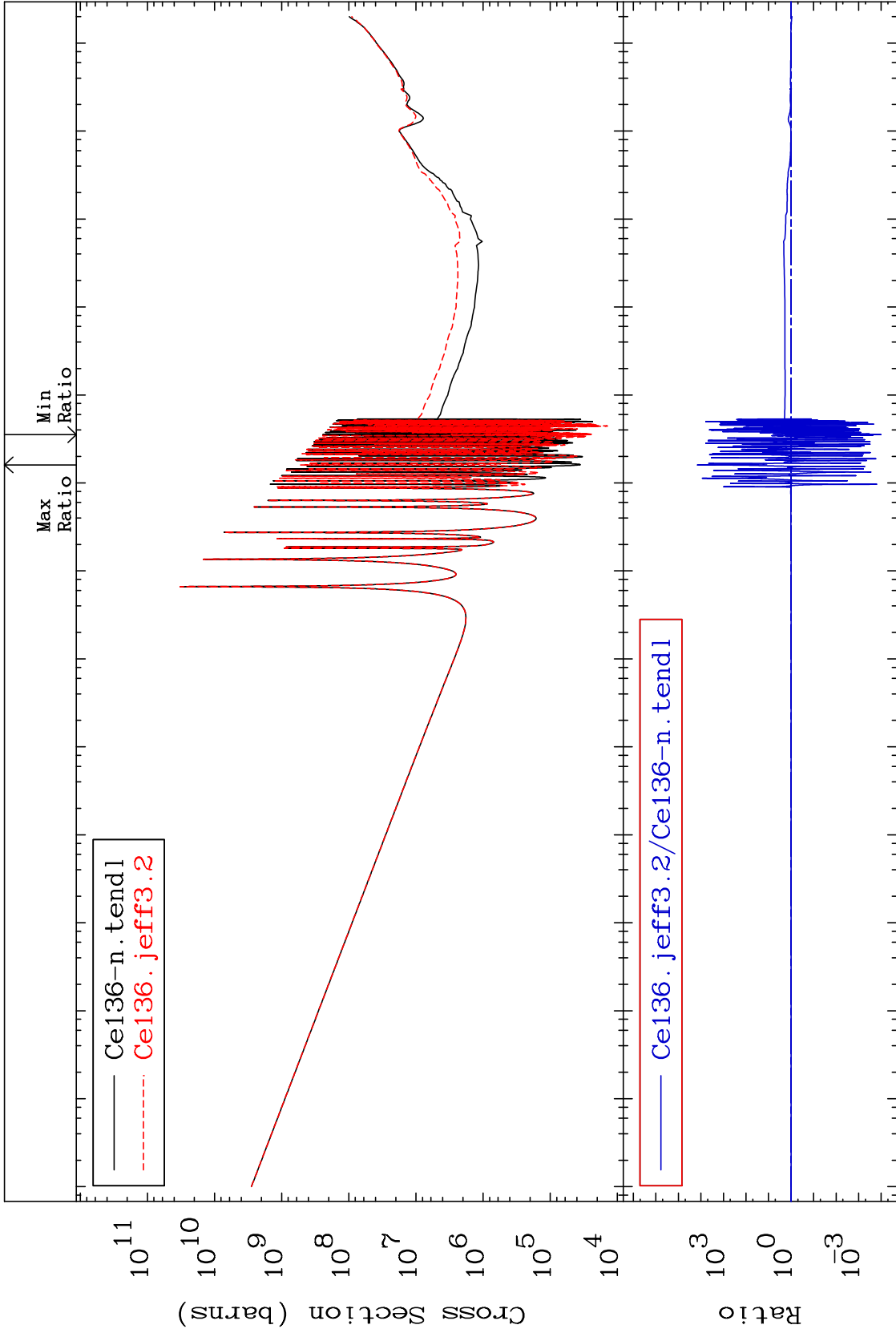
67

Incident Energy (eV)

58-Ce-136

Cross Section

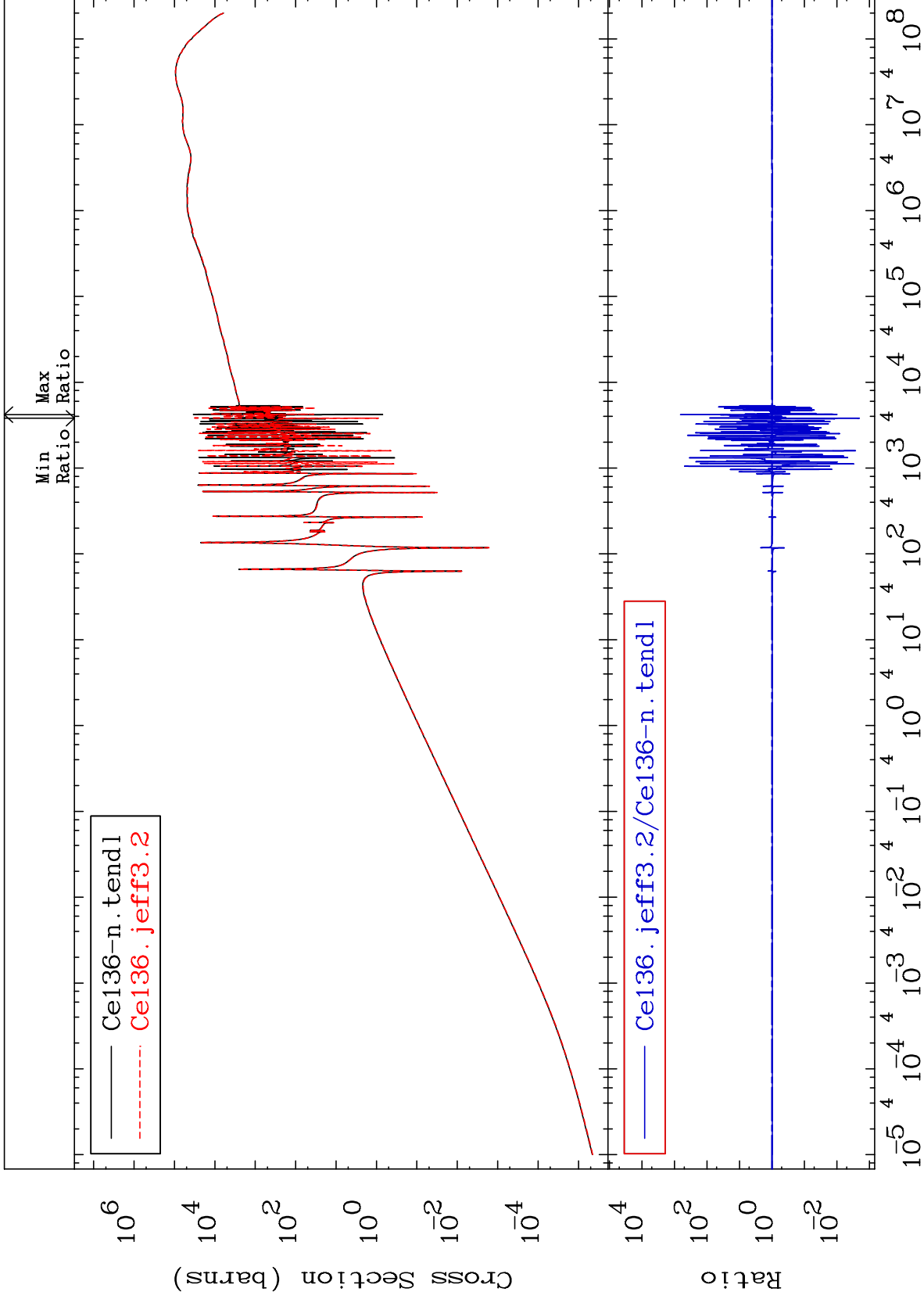
-99.99 To 9999. %

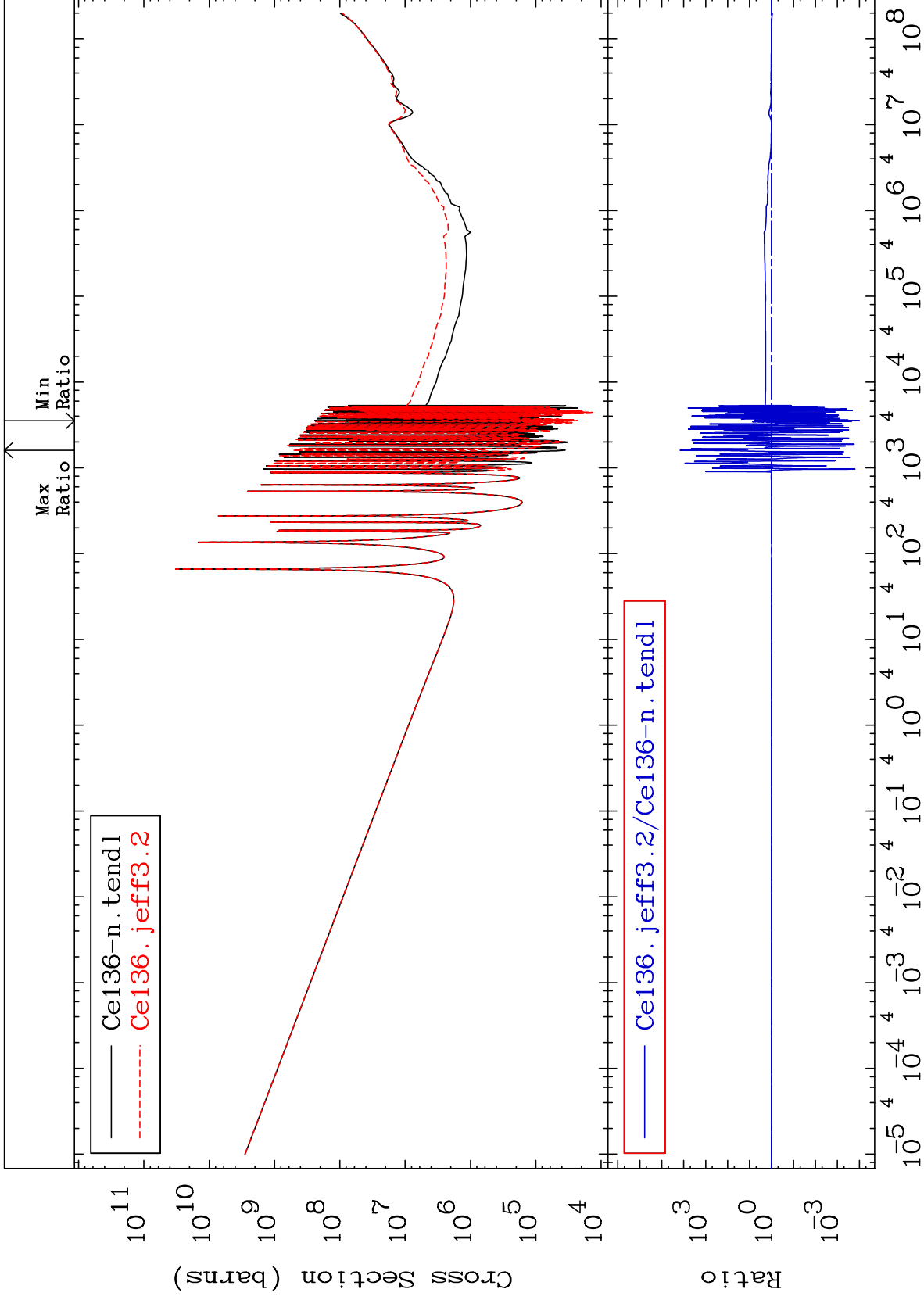


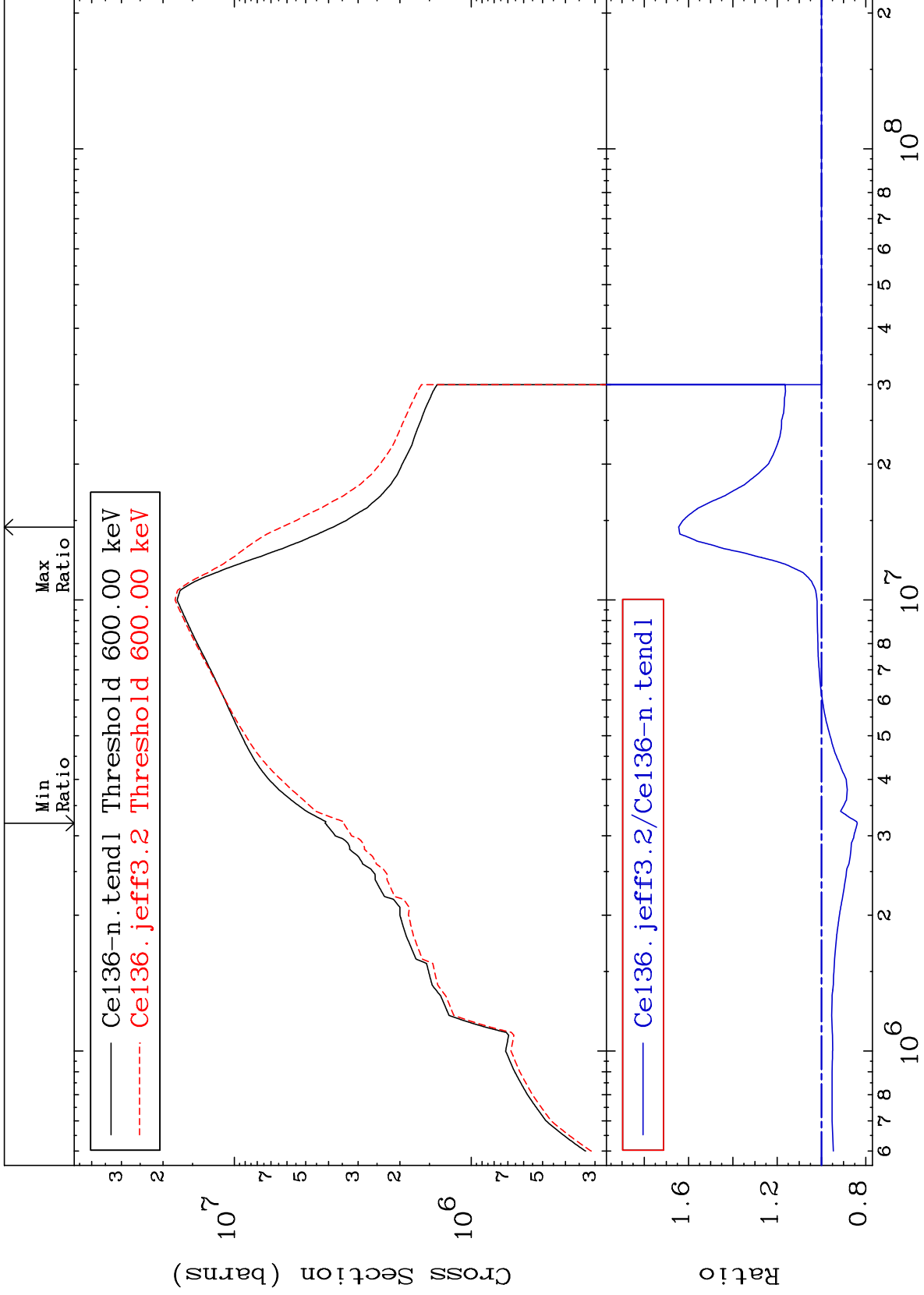
Ce136-n.tendl
Ce136.jeff3.2

Ce136.jeff3.2/Ce136-n.tendl

Incident Energy (eV)



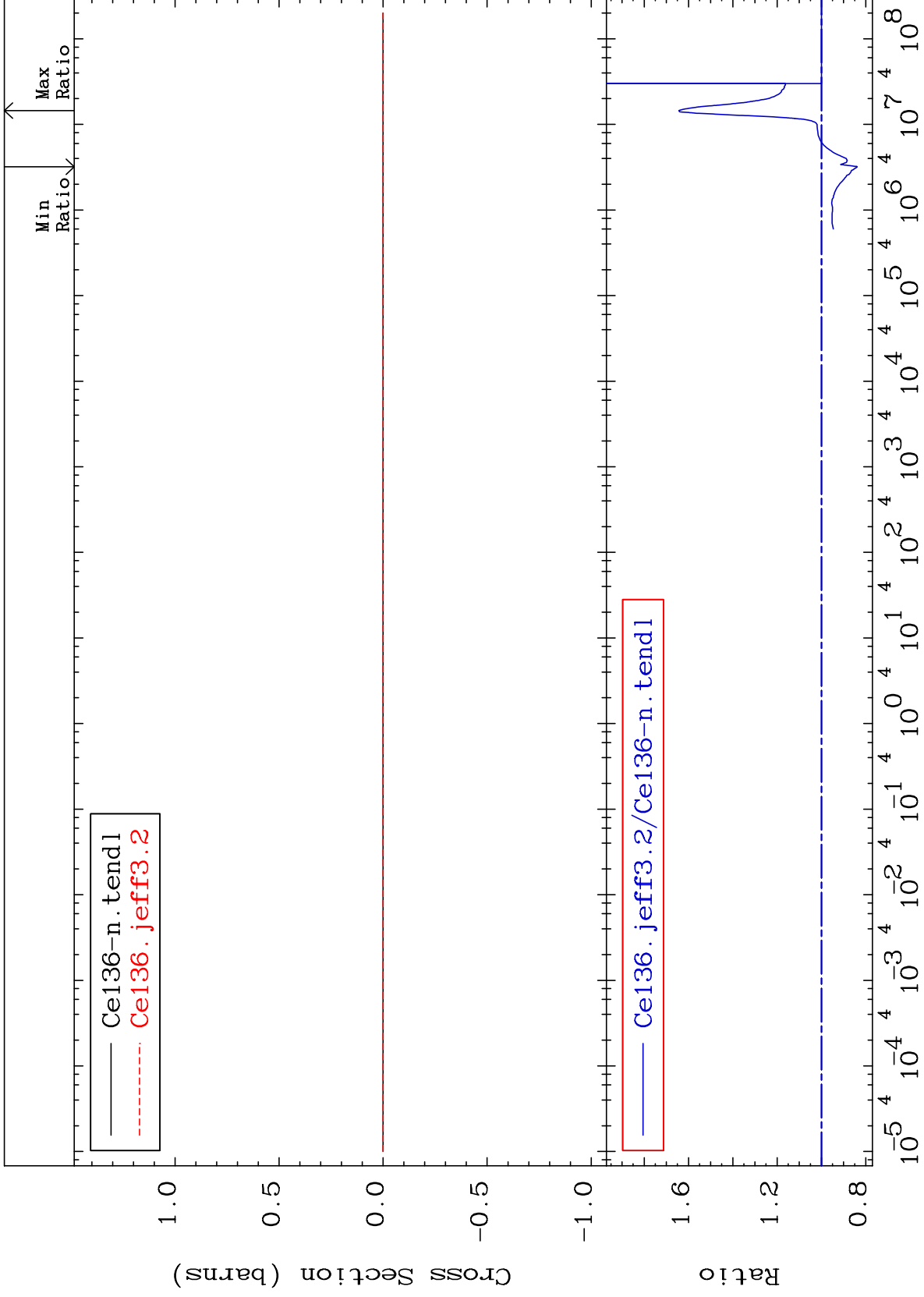




MAT 5825

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

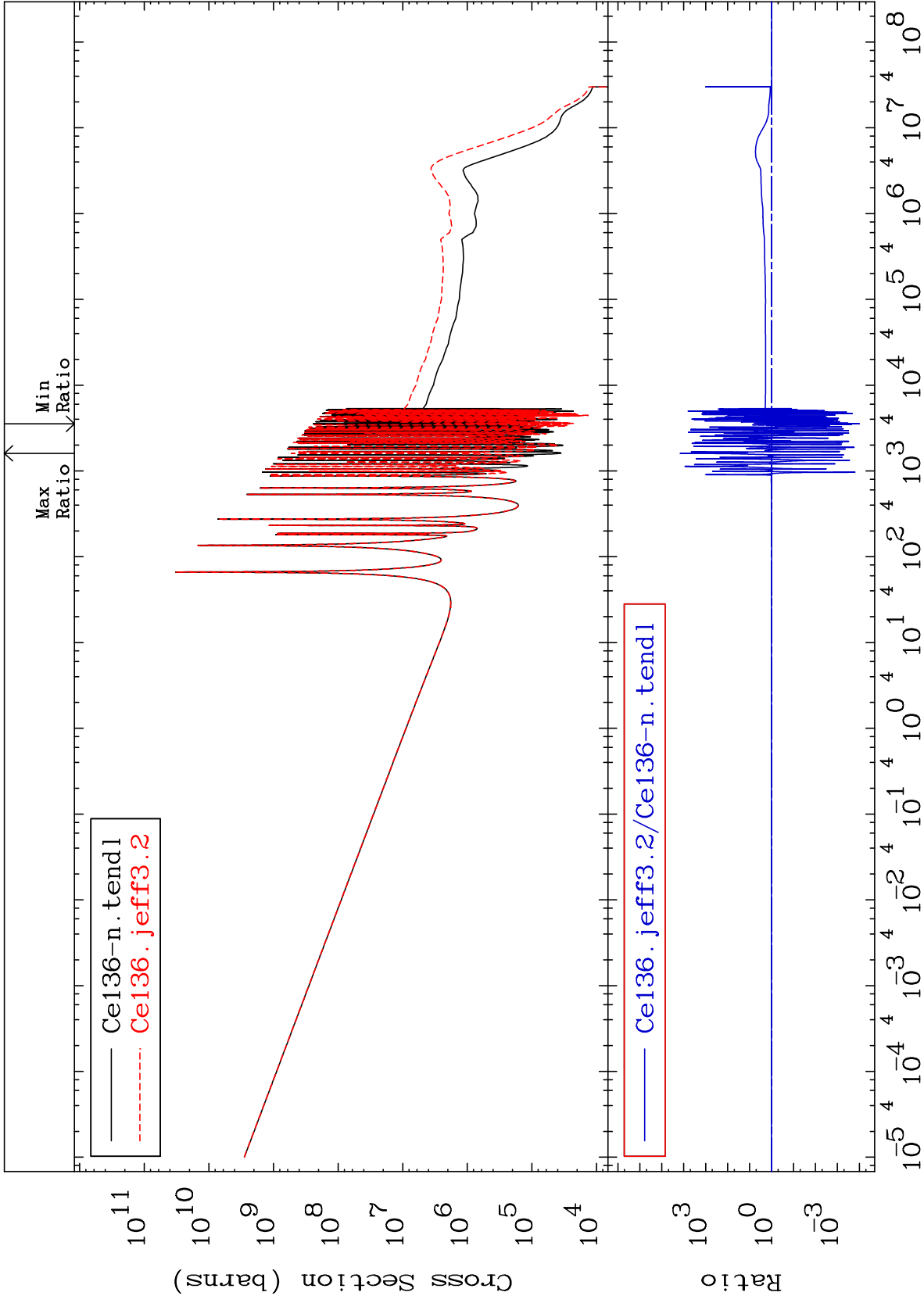
58-Ce-136
-16.16 To 64.45 %

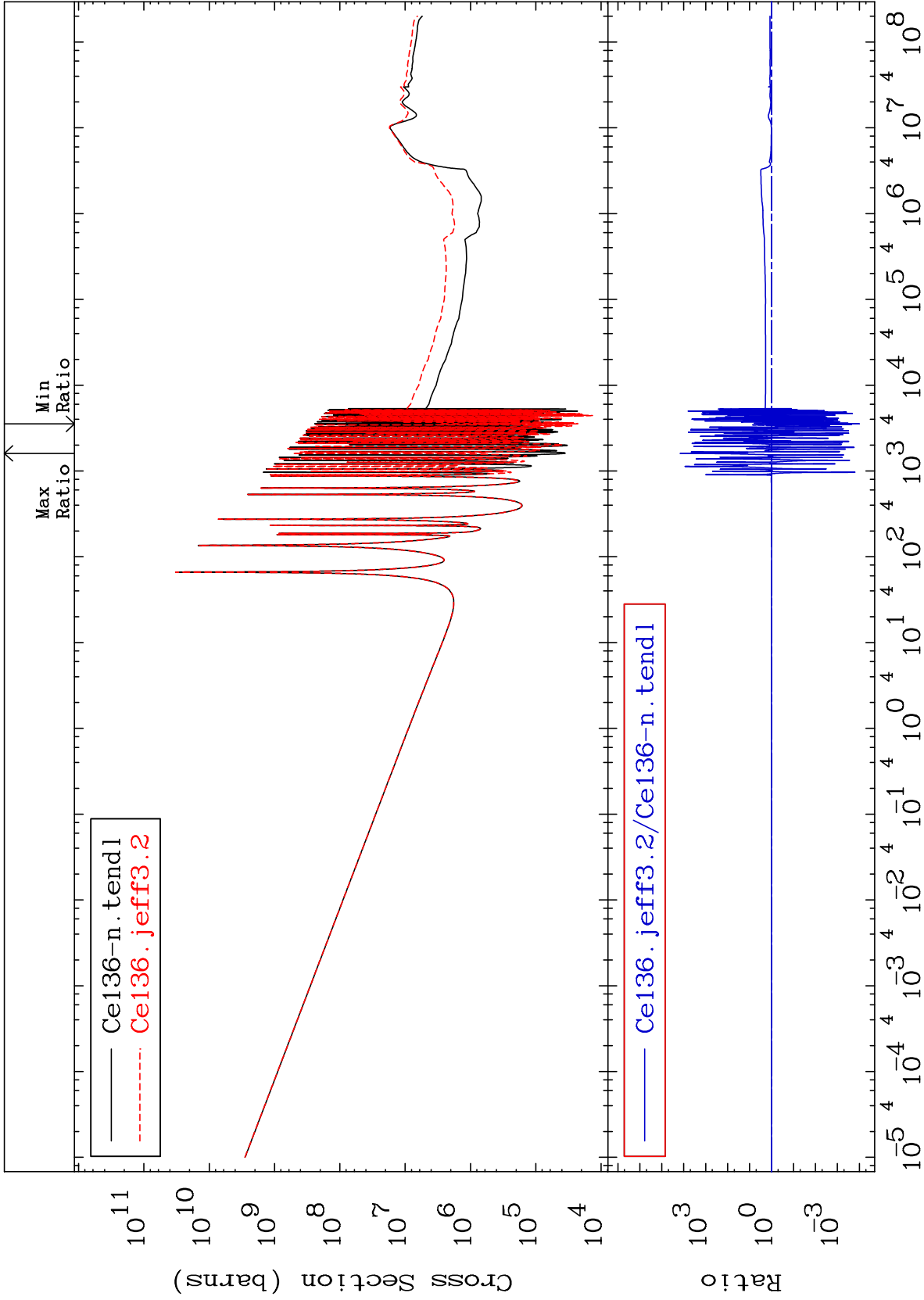


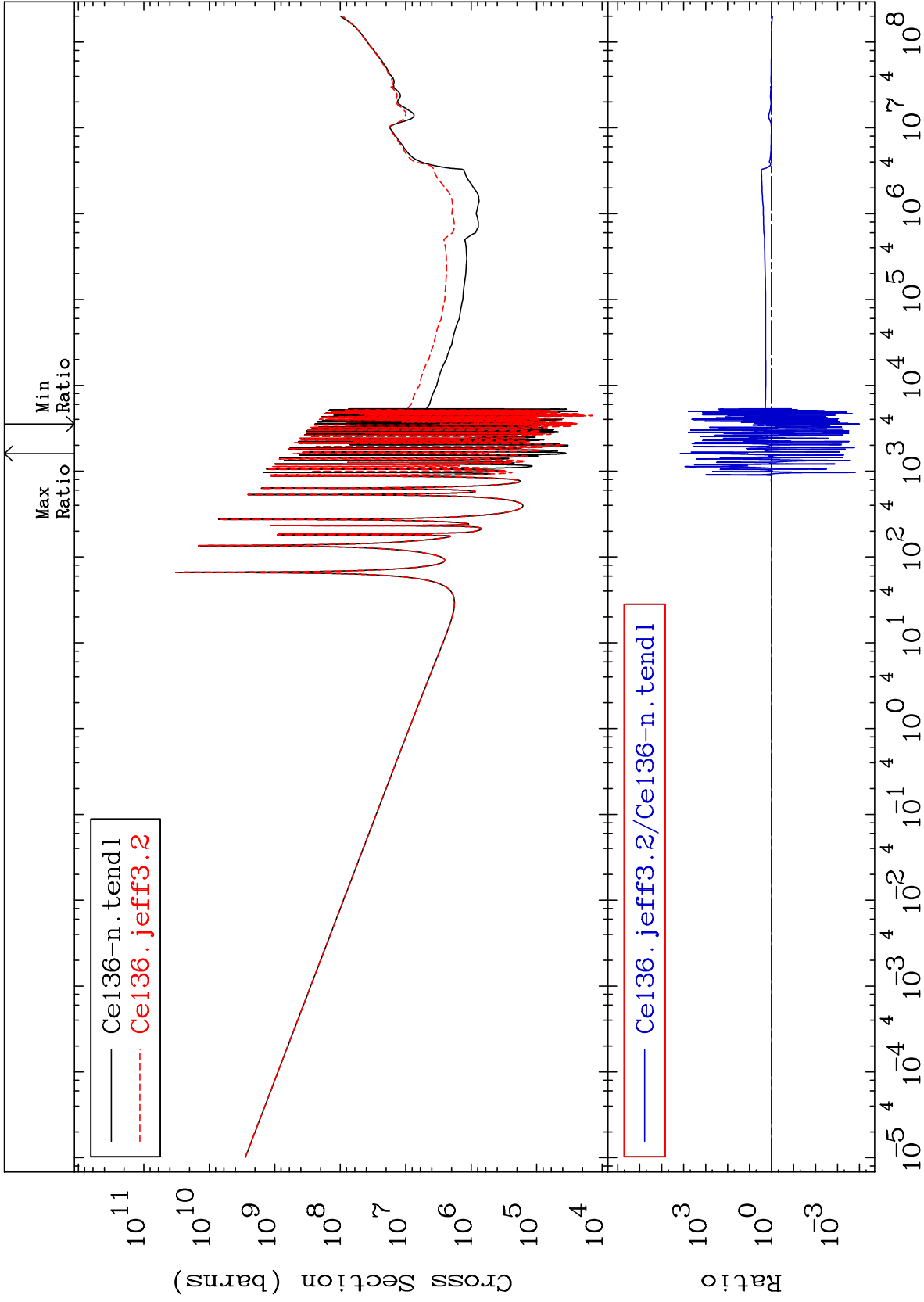
72

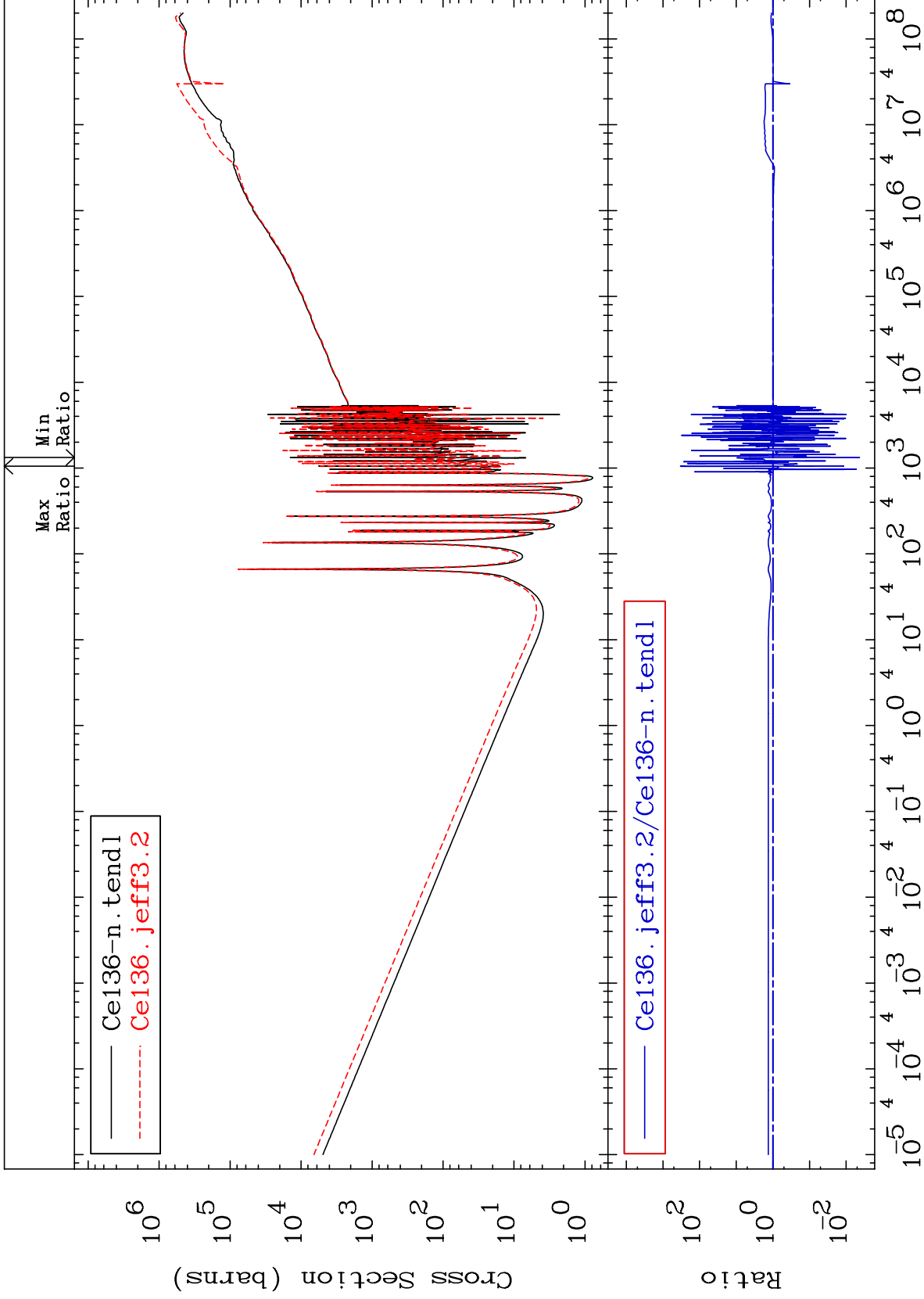
Incident Energy (eV)

58-Ce-136





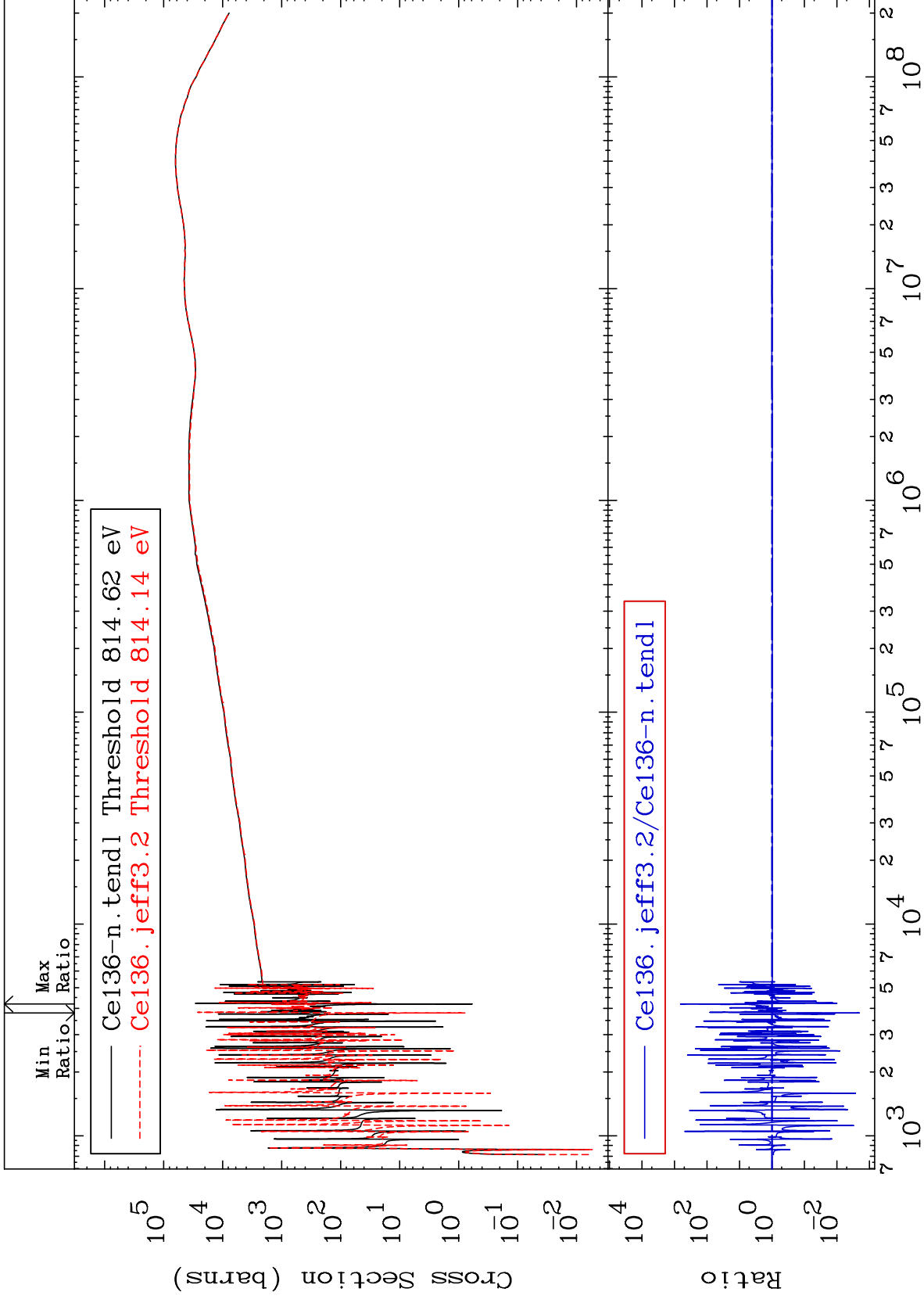




MAT 5825

Dpa elastic (mt2)
Cross Section

58-Ce-136
-99.80 To 9999. %



77

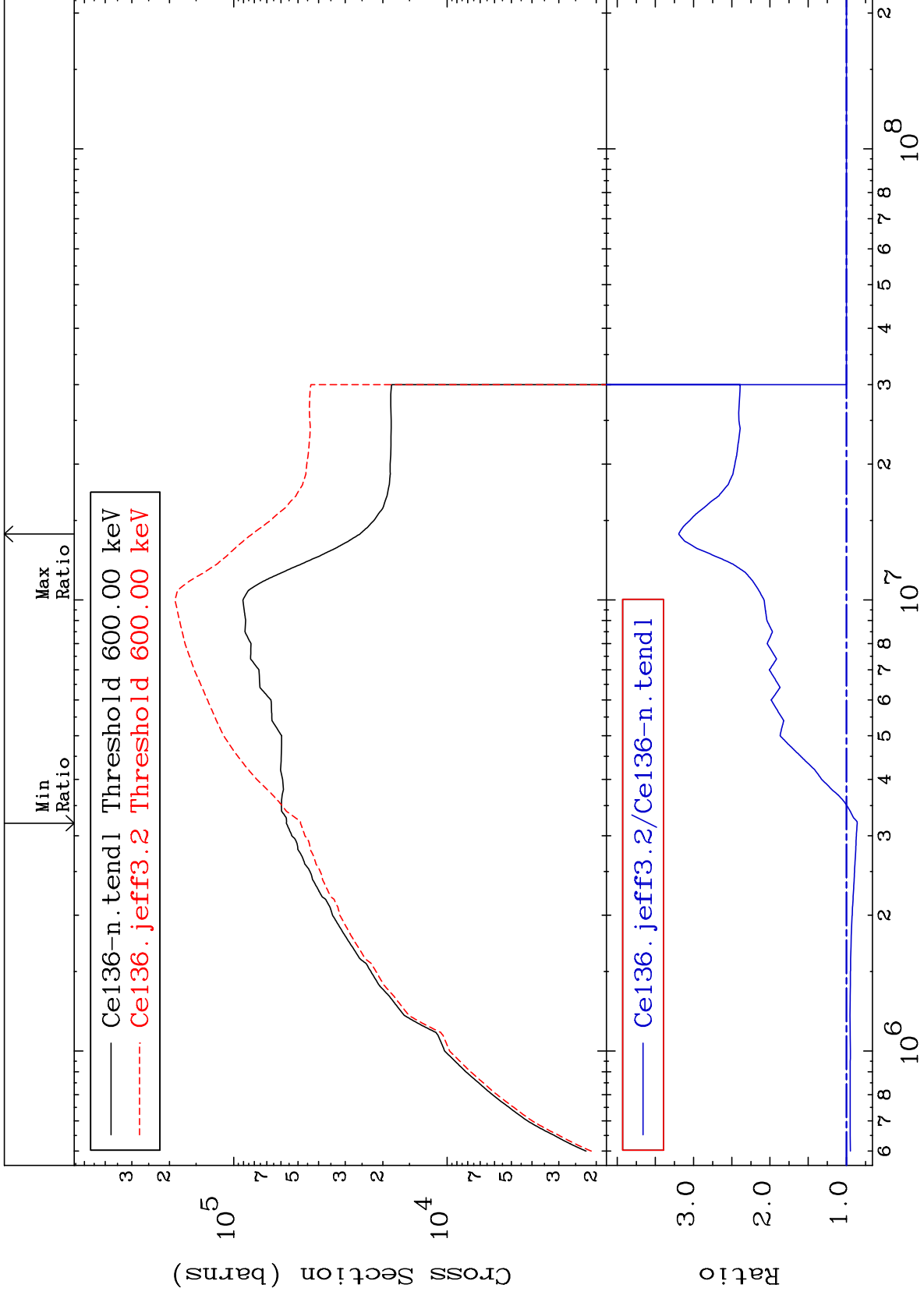
Incident Energy (eV)

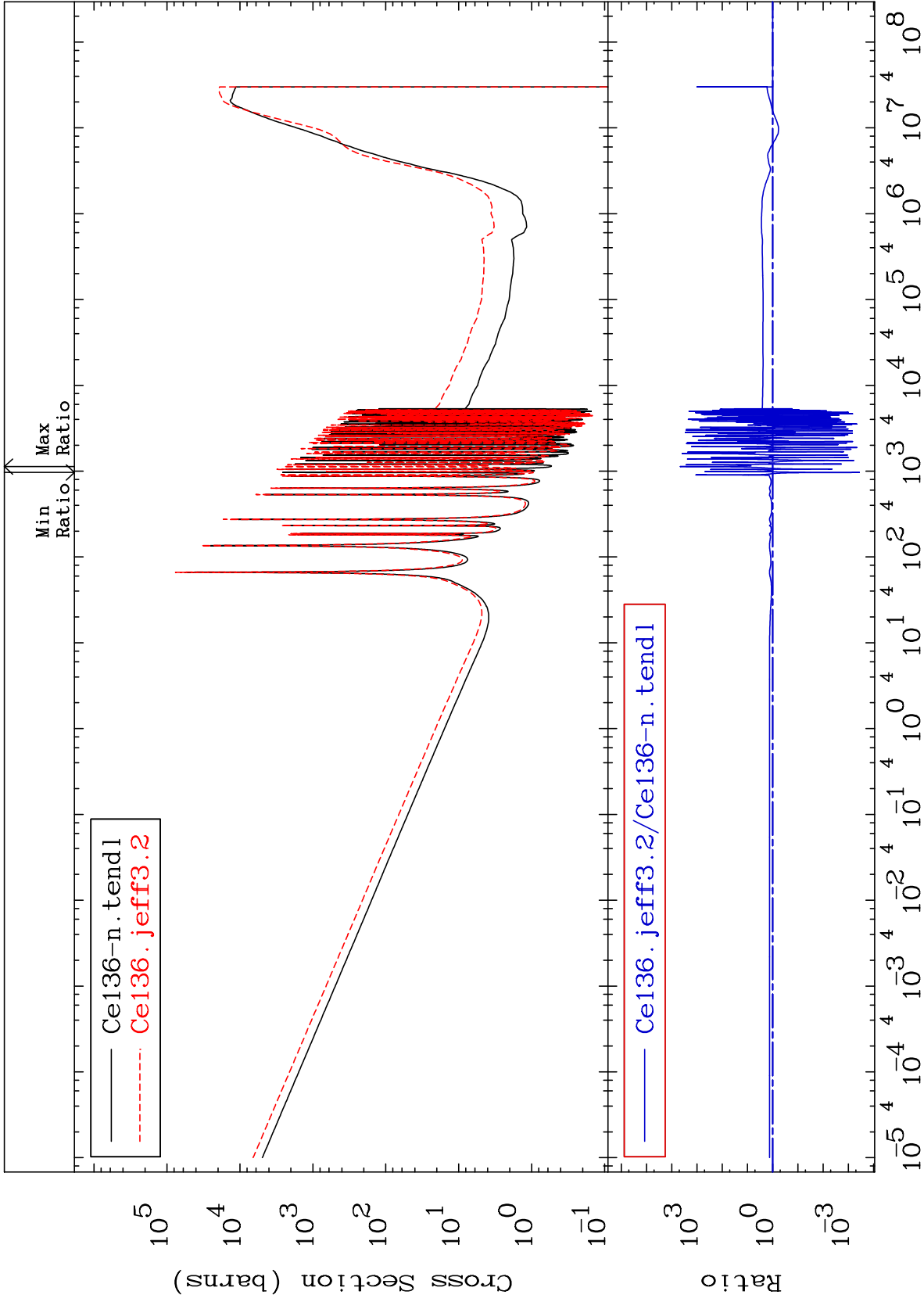
58-Ce-136

MAT 5825

Dpa inelastic (mt51-91)
Cross Section

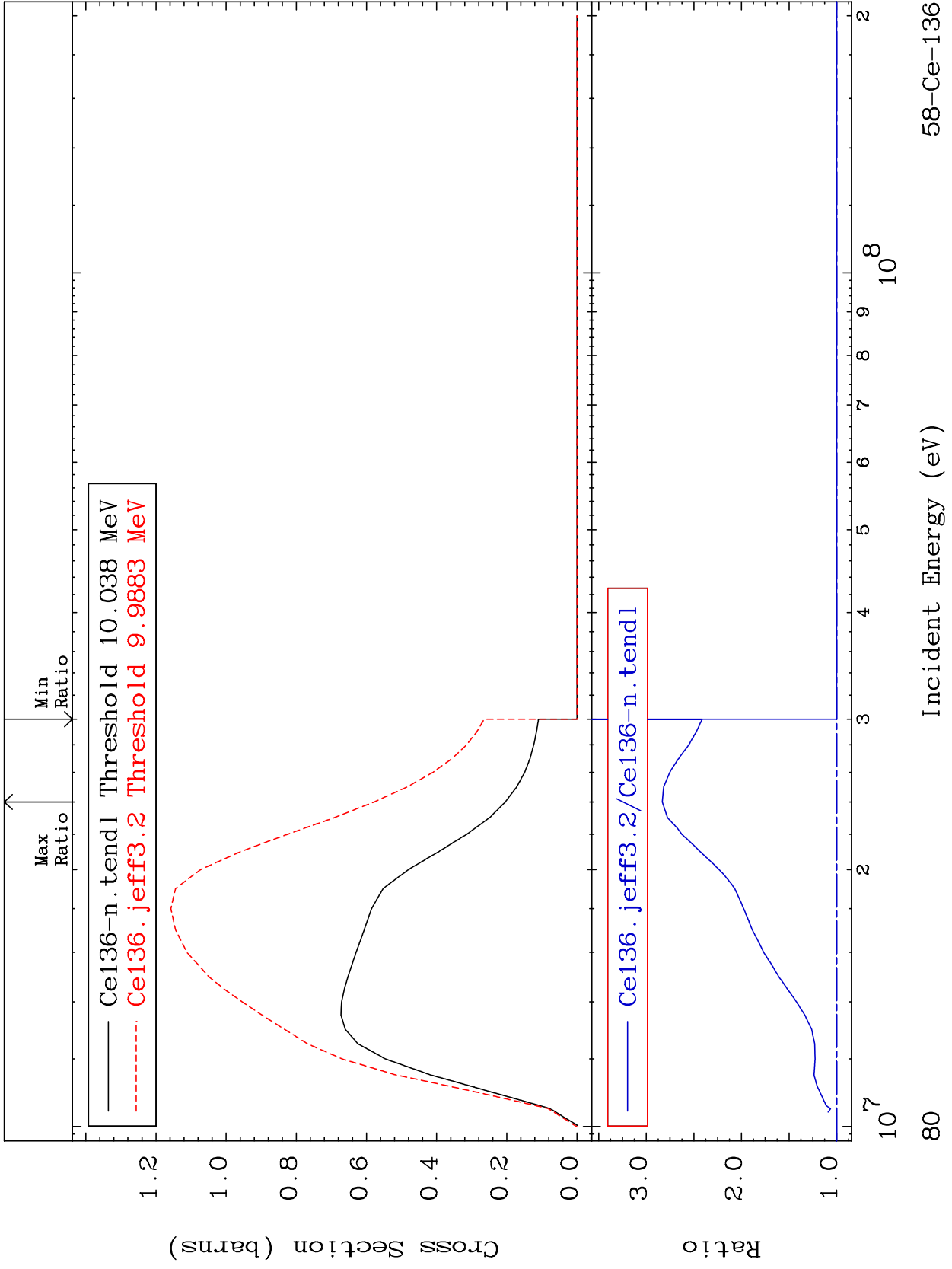
58-Ce-136
-14.23 To 219.6 %



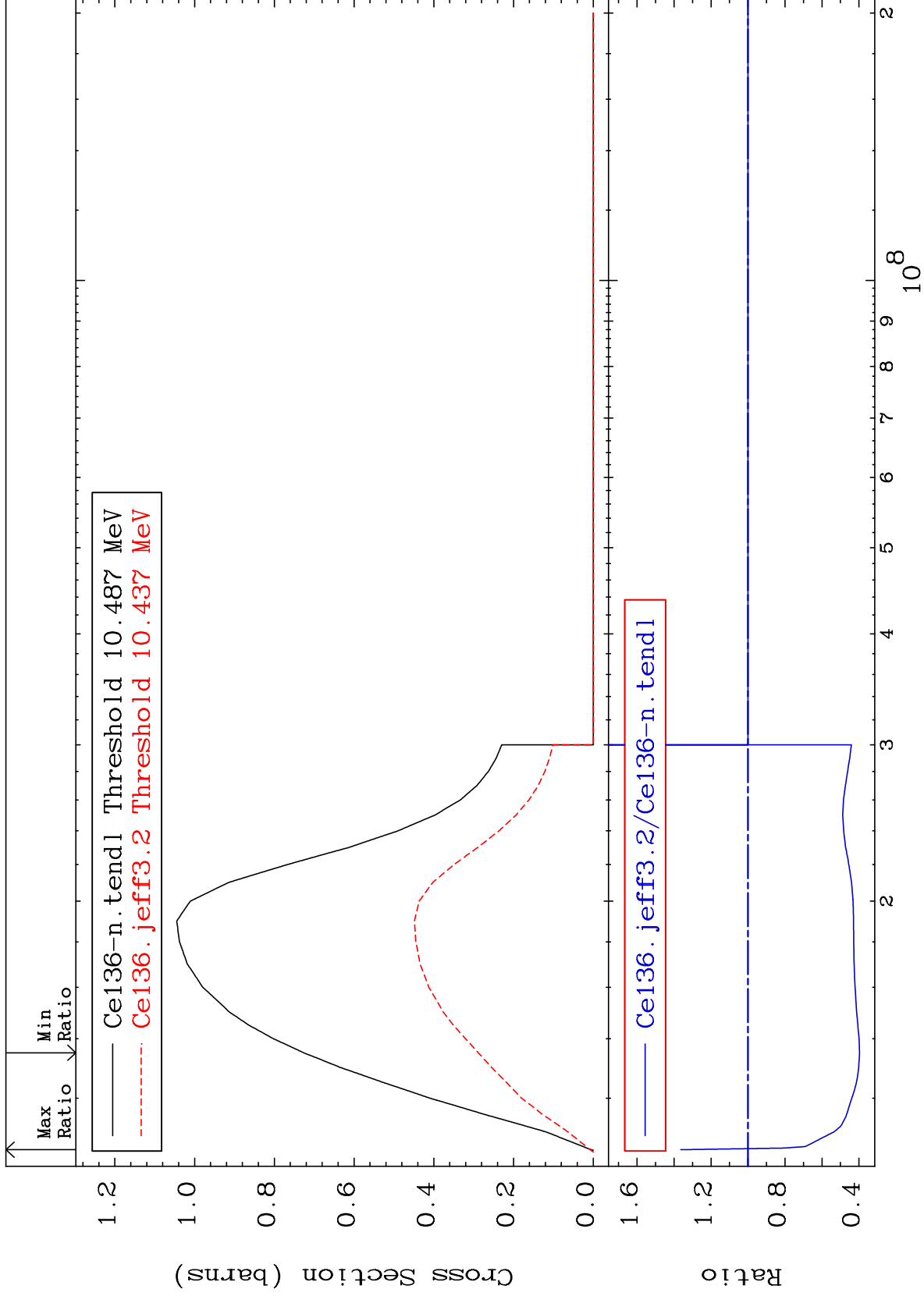


MAT 5825

(n,2n):58-Ce-135g 58-Ce-136
Radionuclide Production Cross Section 0.000 To 183.1 %



Radionuclide Production Cross Section -60.30 To 36.35 %



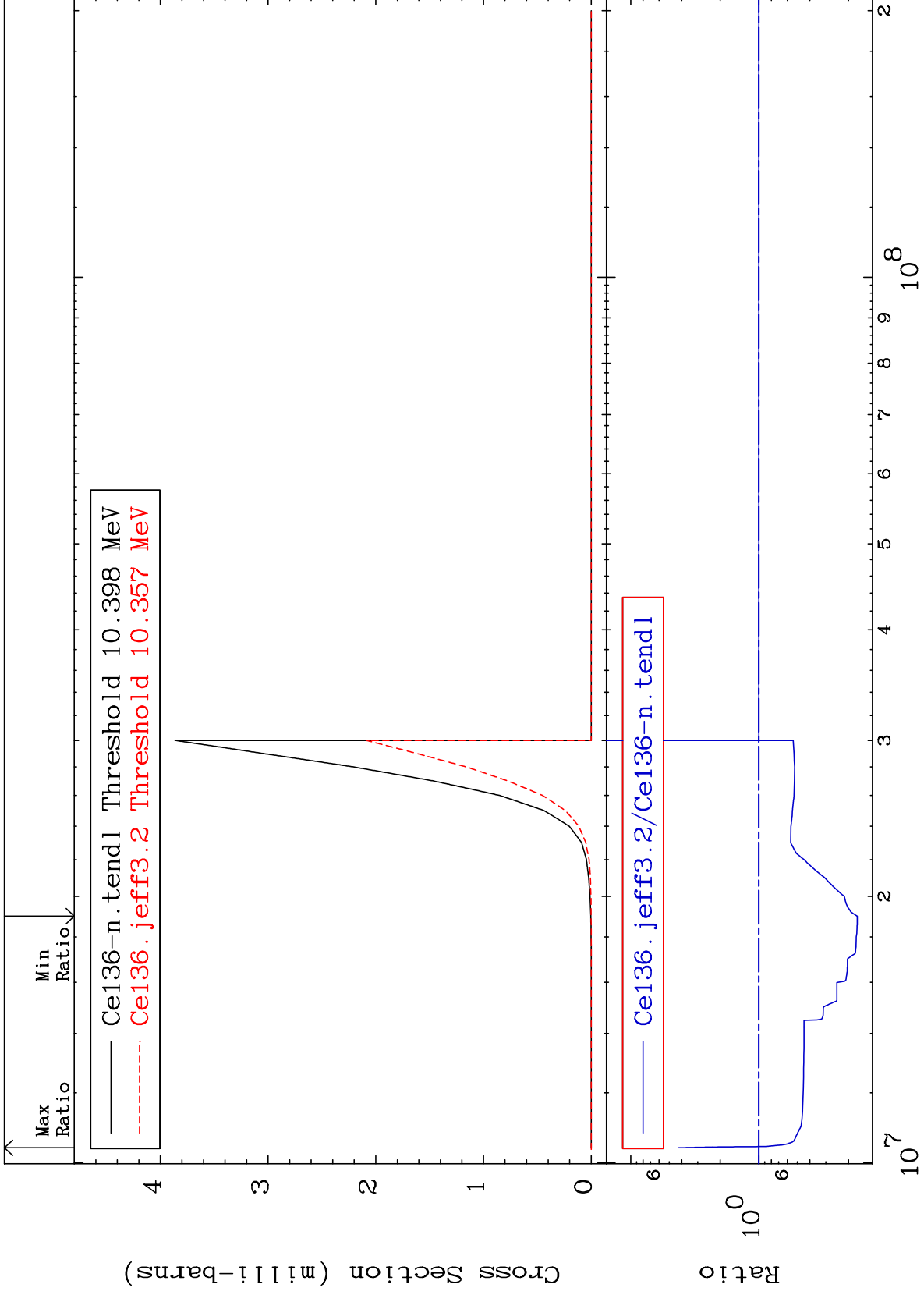
MAT 5825

(n,2n) α :56-Ba-131g

58-Ce-136

Radionuclide Production Cross Section

-82.93 To 322.5 %



Incident Energy (eV)

58-Ce-136

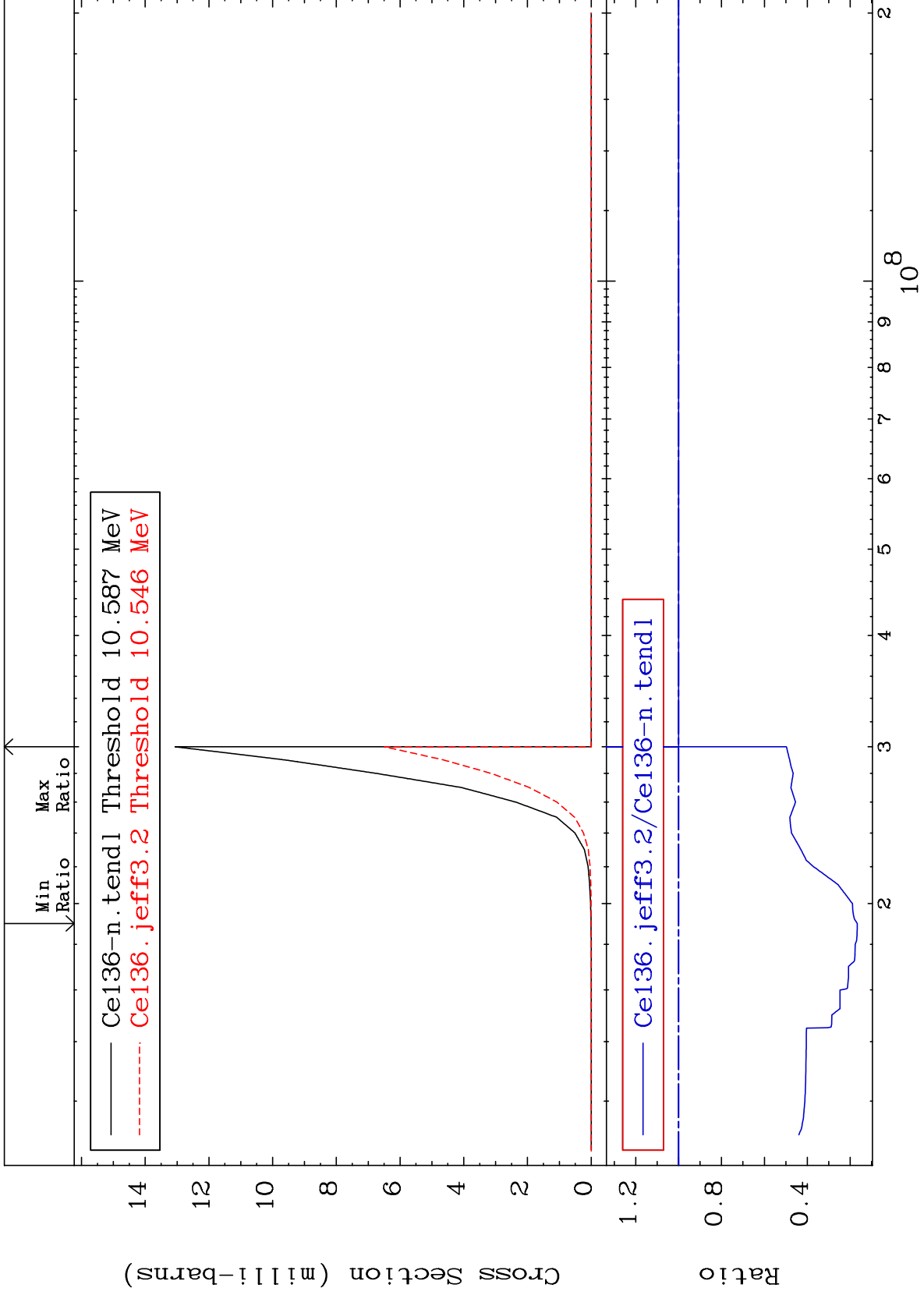
82

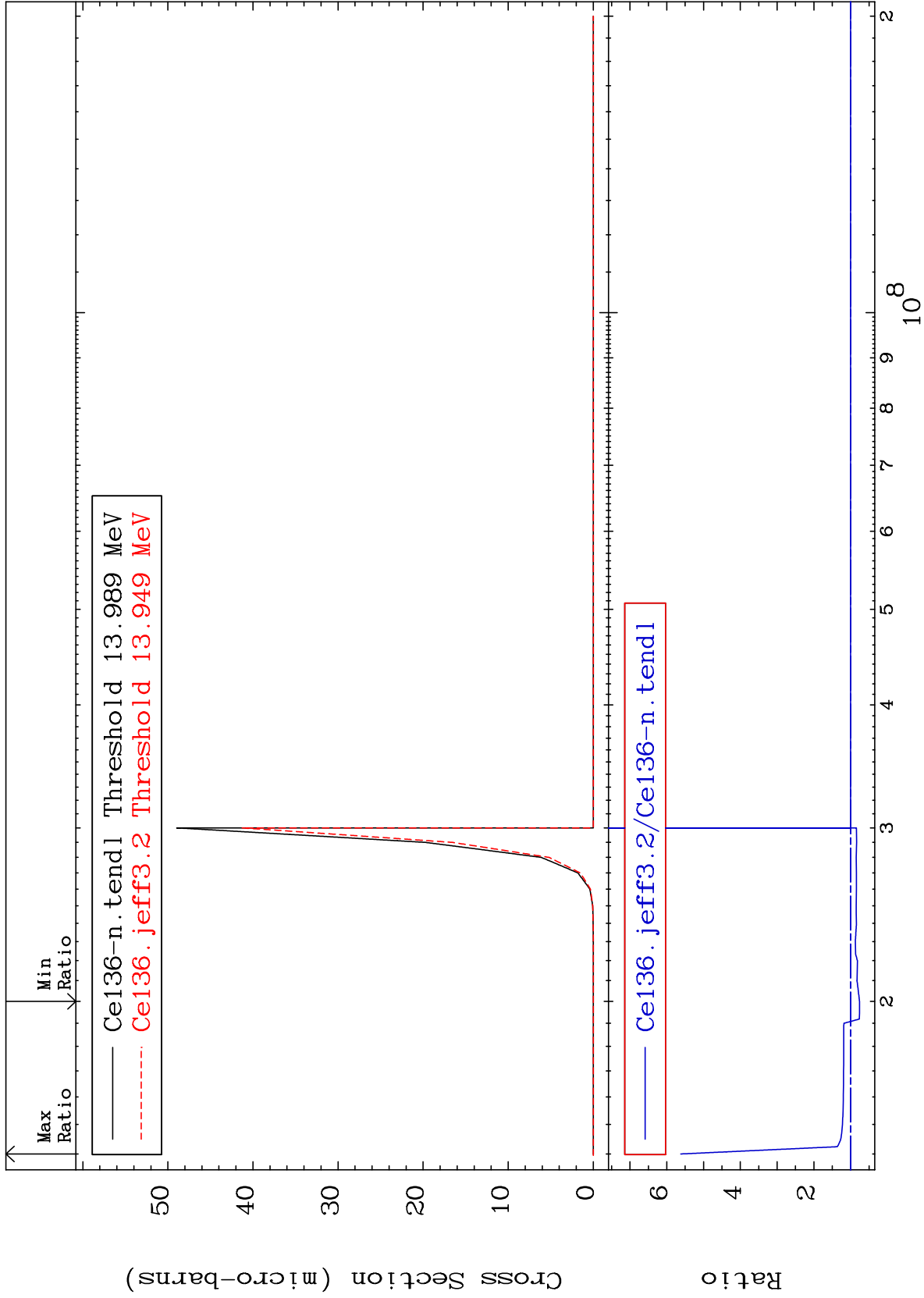
MAT 5825

(n,2n) α :56-Ba-131m2

58-Ce-136

Radionuclide Production Cross Section -83.32 To 0.000 %



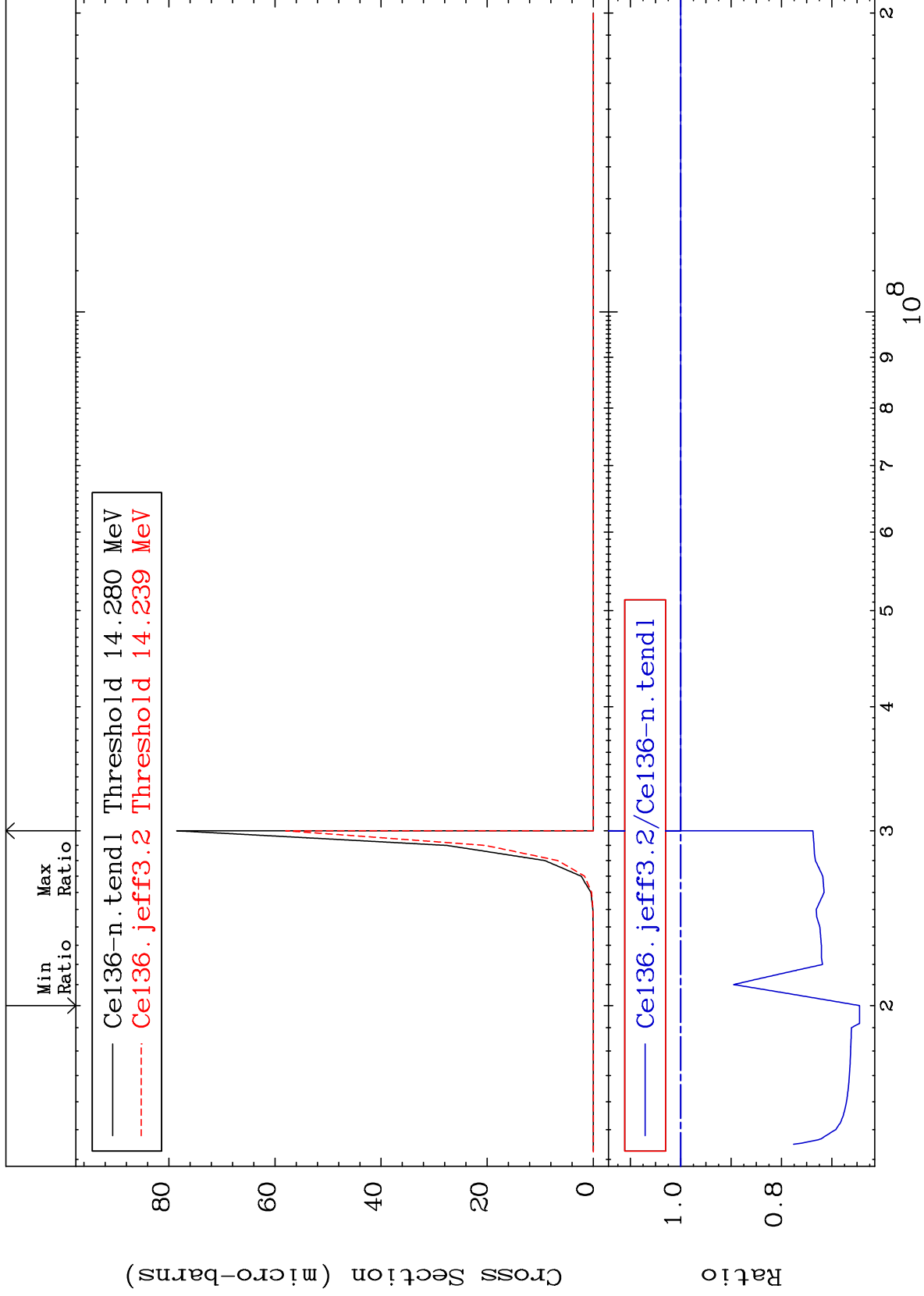


MAT 5825

(n, n') He-3:56-Ba-133m2

58-Ce-136

Radionuclide Production Cross Section -35.48 To 0.000 %



85

Incident Energy (eV)

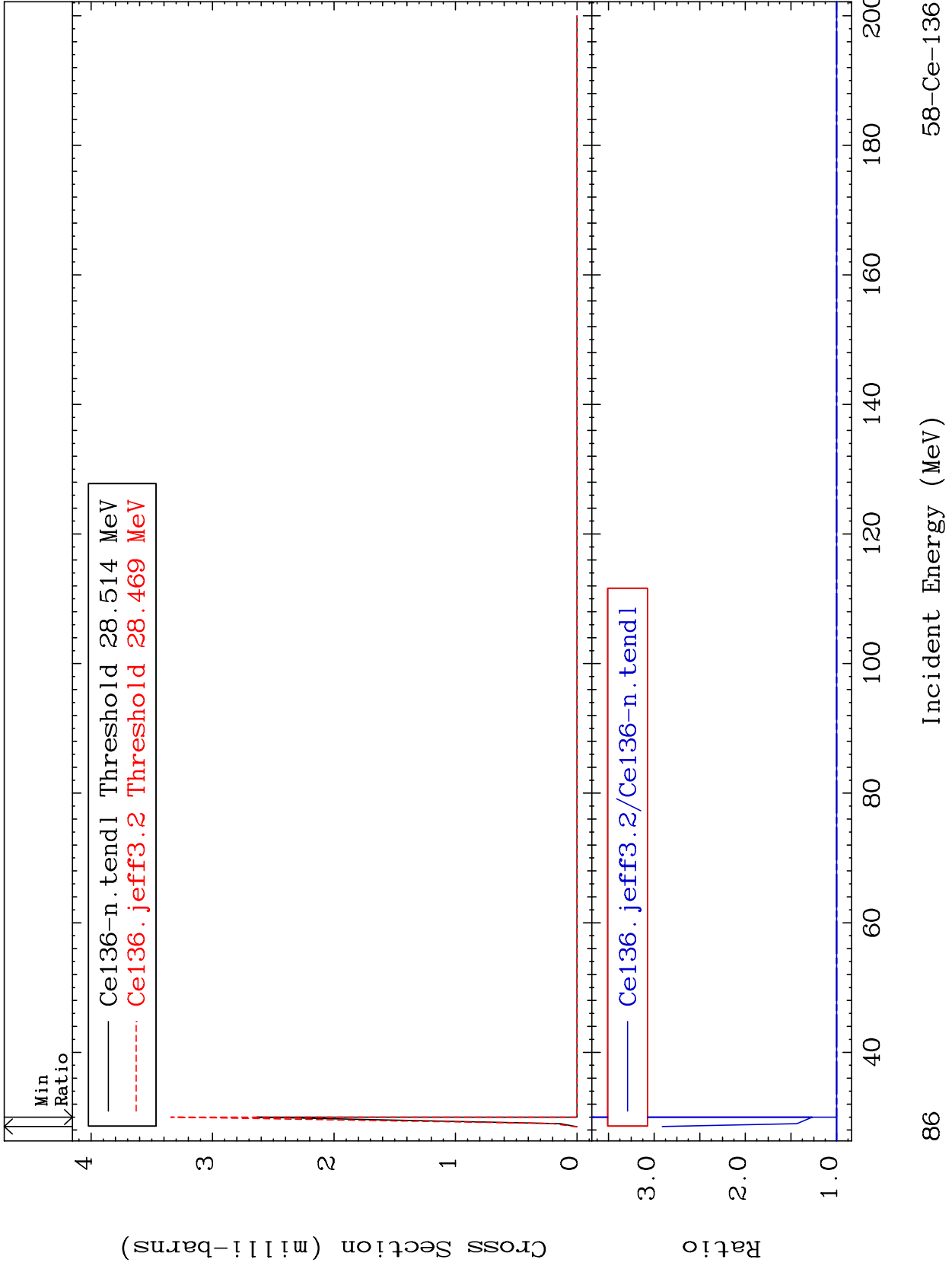
58-Ce-136

MAT 5825

(n,4n):58-Ce-133g

58-Ce-136

Radionuclide Production Cross Section 0.000 To 191.0 %



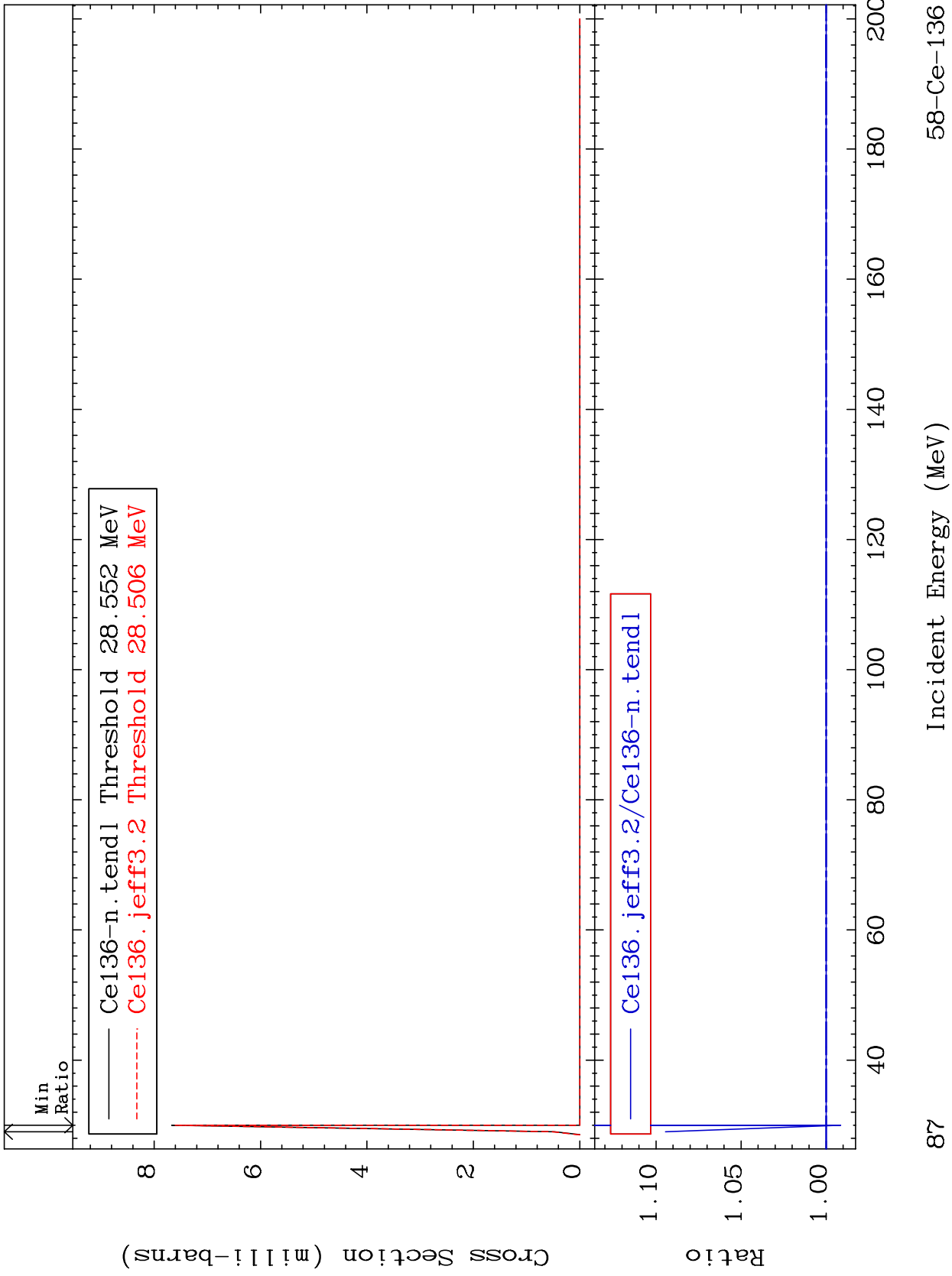
MAT 5825

(n, 4n):58-Ce-133m1

58-Ce-136

Radionuclide Production Cross Section

-0.853 To 9.443 %



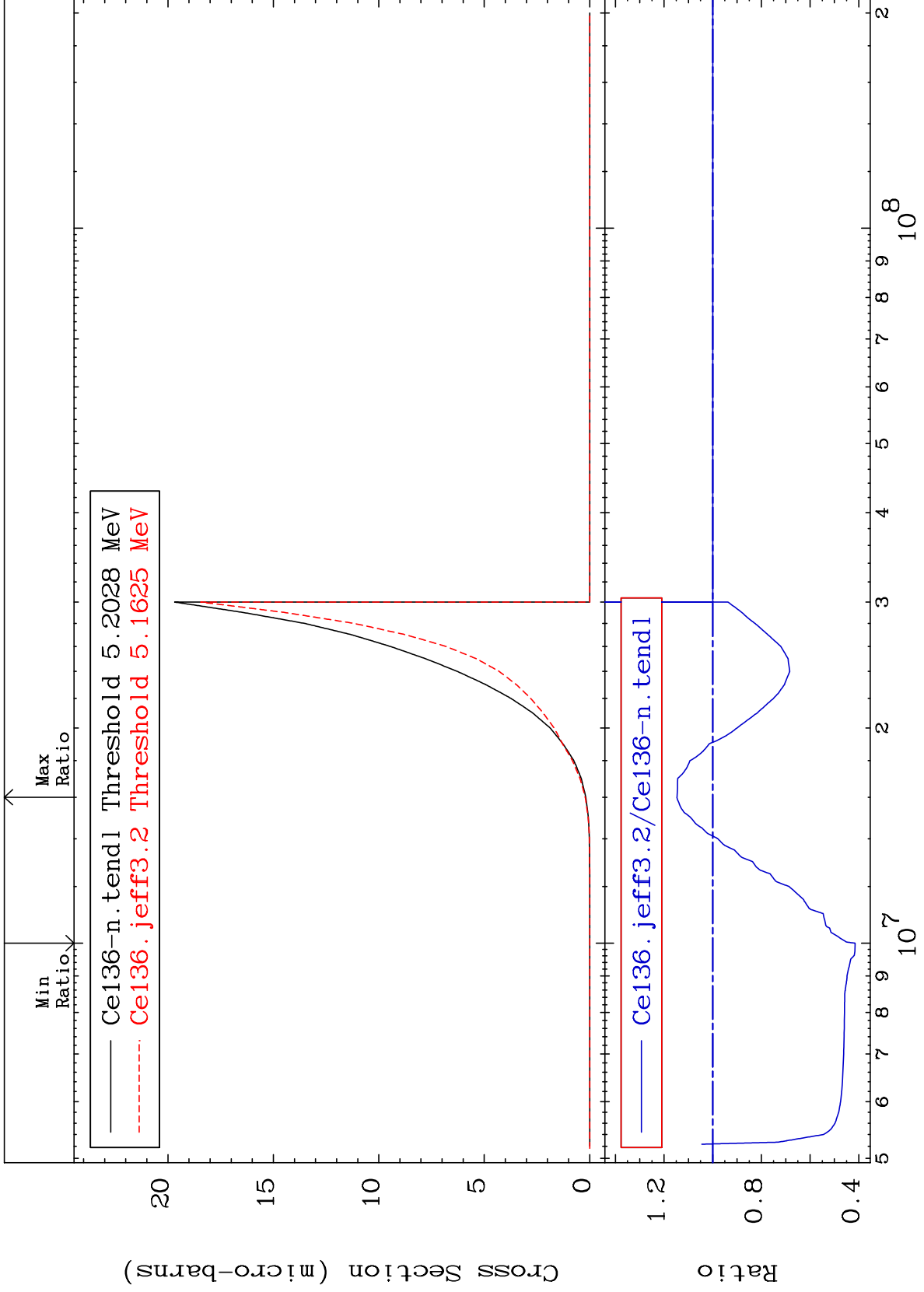
MAT 5825

(n,2p):56-Ba-135g

58-Ce-136

Radionuclide Production Cross Section

-58.49 To 14.71 %

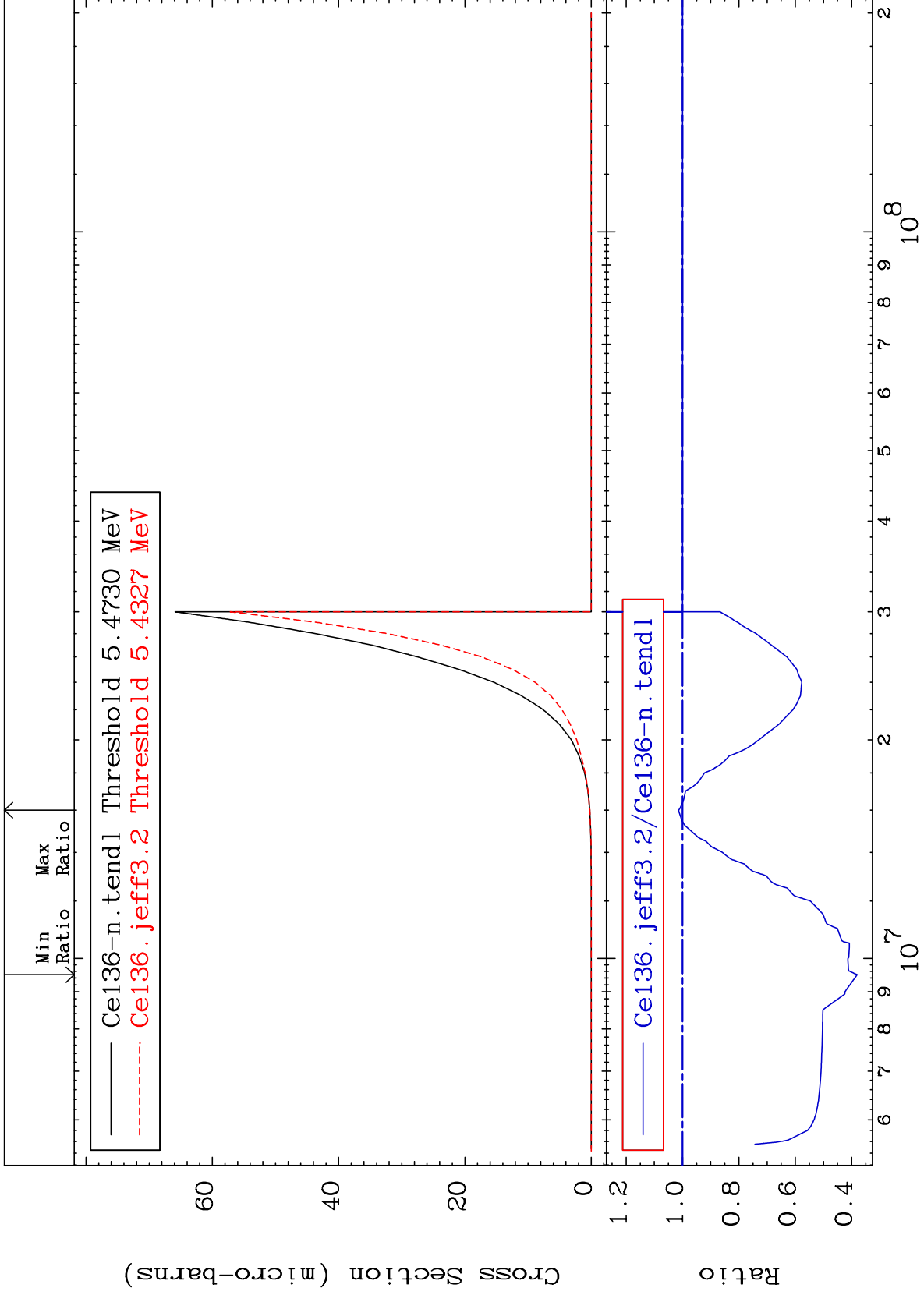


MAT 5825

(n,2p) : 56-Ba-135m2

58-Ce-136

Radionuclide Production Cross Section -61.98 To 1.380 %

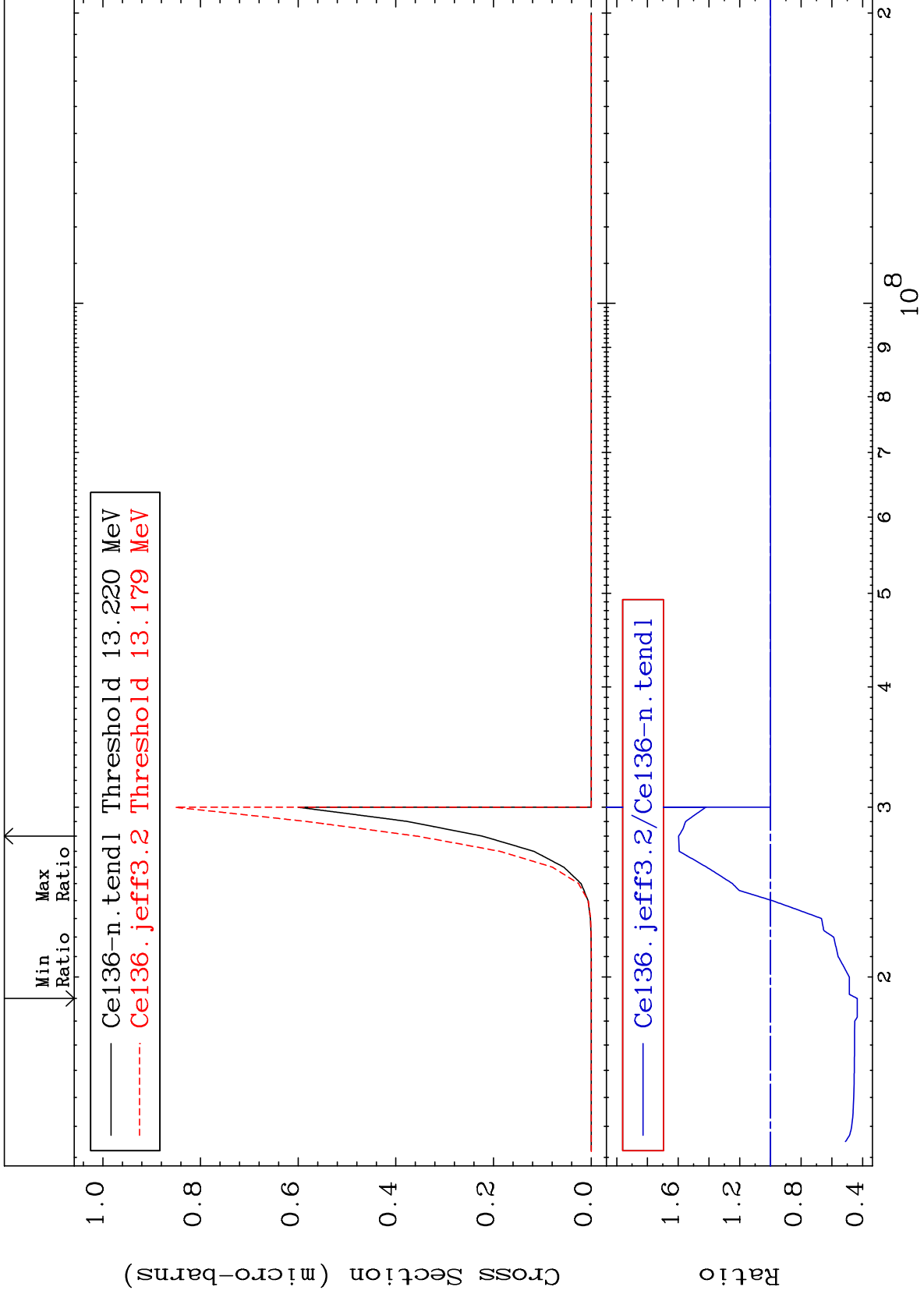


MAT 5825

(n, p) t:56-Ba-133g

58-Ce-136

Radionuclide Production Cross Section -56.47 To 59.72 %



Radionuclide Production Cross Section -62.89 To 734.6 %

