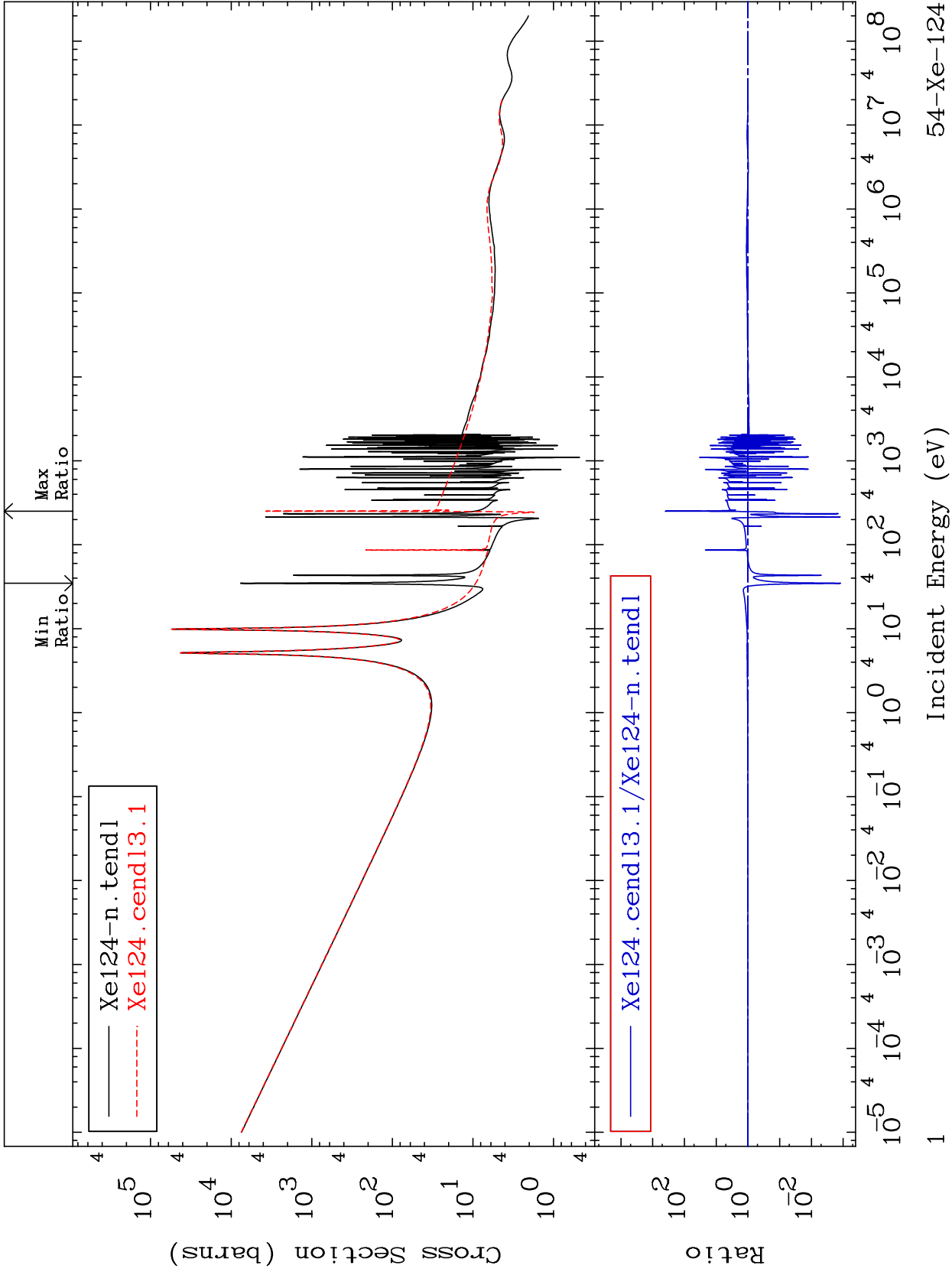


MAT 5425

Total Cross Section
54-Xe-124
-99.88 To 9999. %

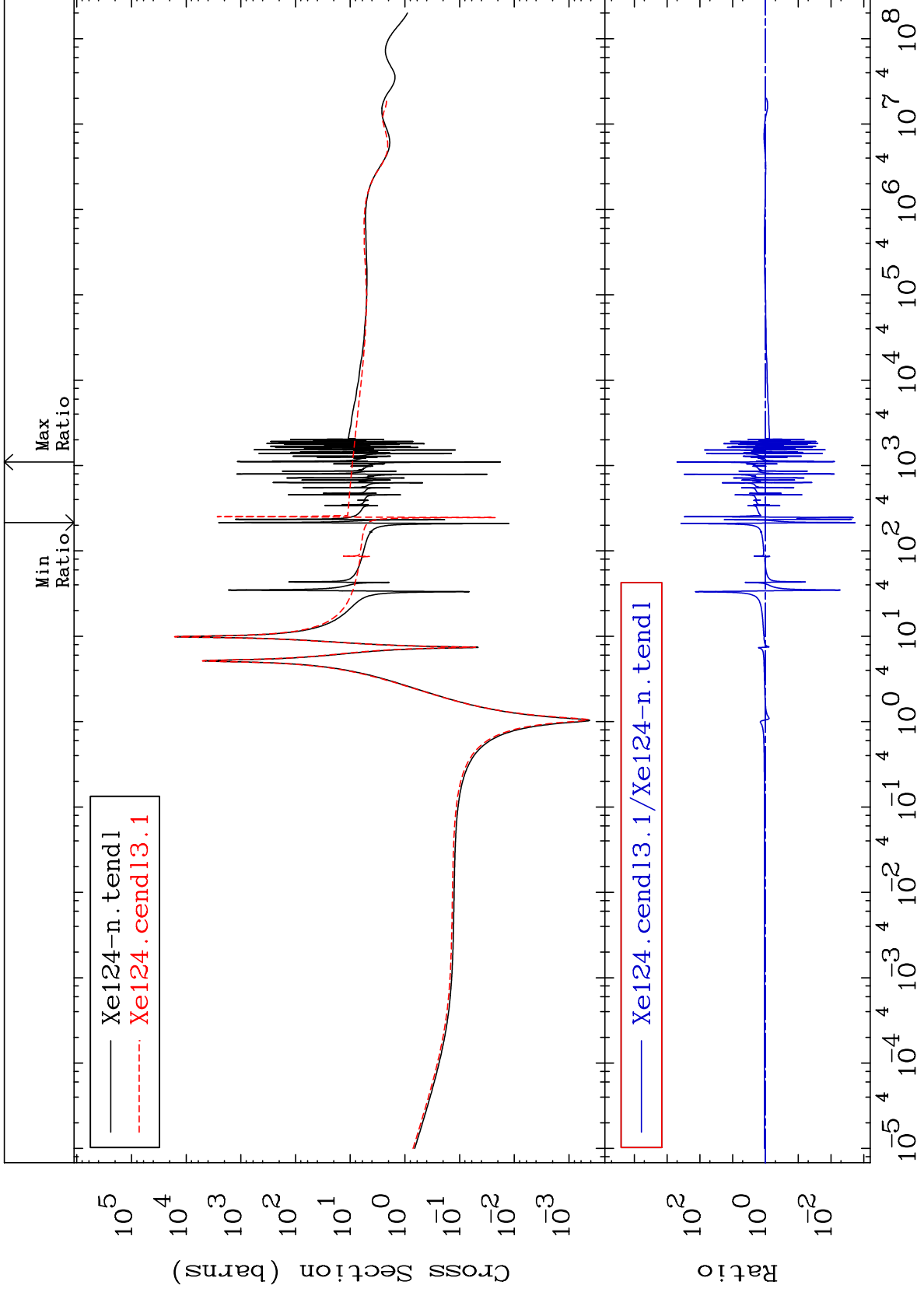


54-Xe-124

MAT 5425

Elastic
Cross Section

54-Xe-124
-99.82 To 9999. %



MAT 5425

54-Xe-124

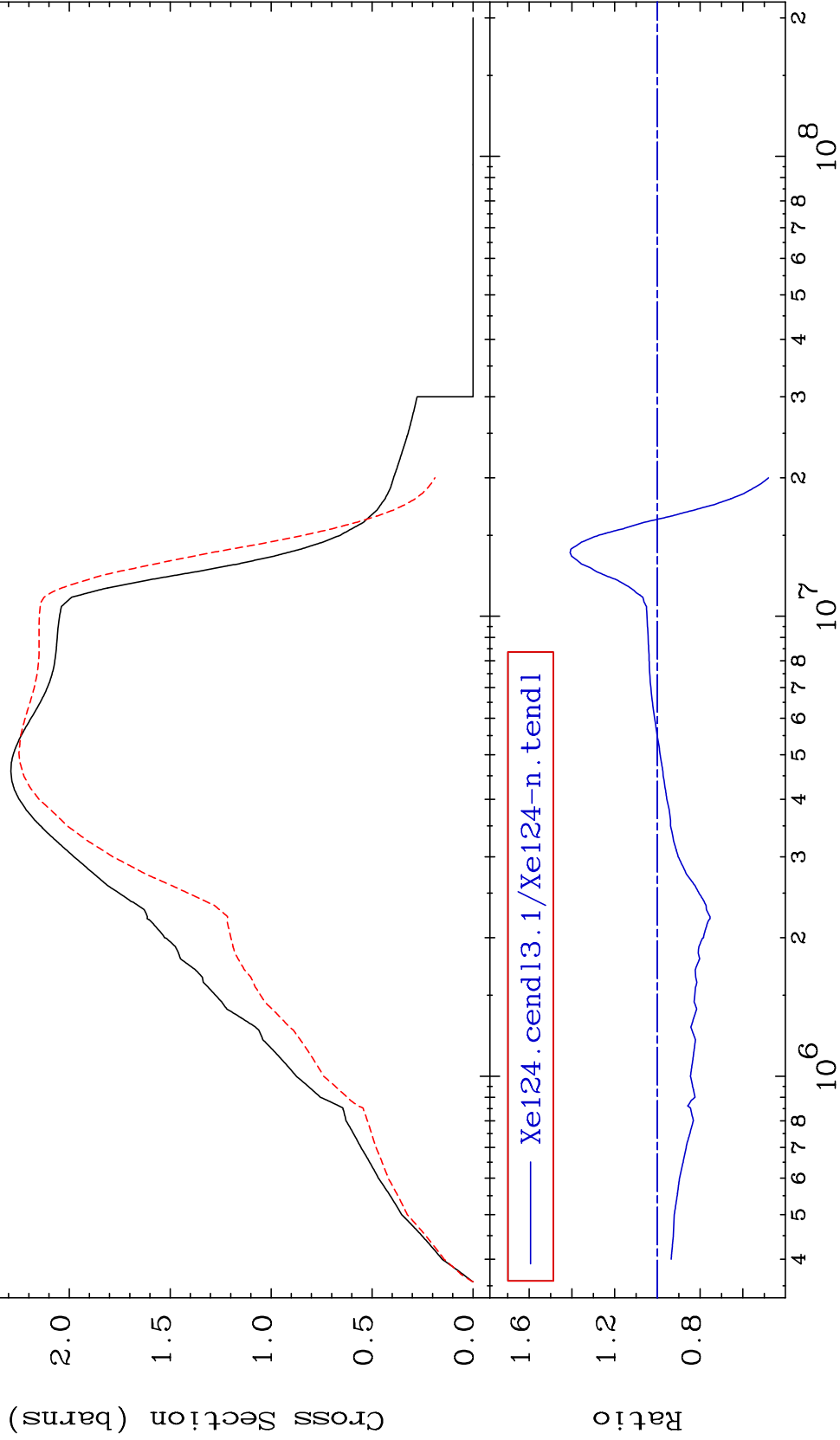
-51.95 To 40.85 %

Inelastic
Cross Section

Max
Ratio

Min
Ratio

— Xe124-n.tendl Threshold 356.91 keV
- - - Xe124.cendl3.1 Threshold 356.98 keV



3

Incident Energy (eV)

54-Xe-124

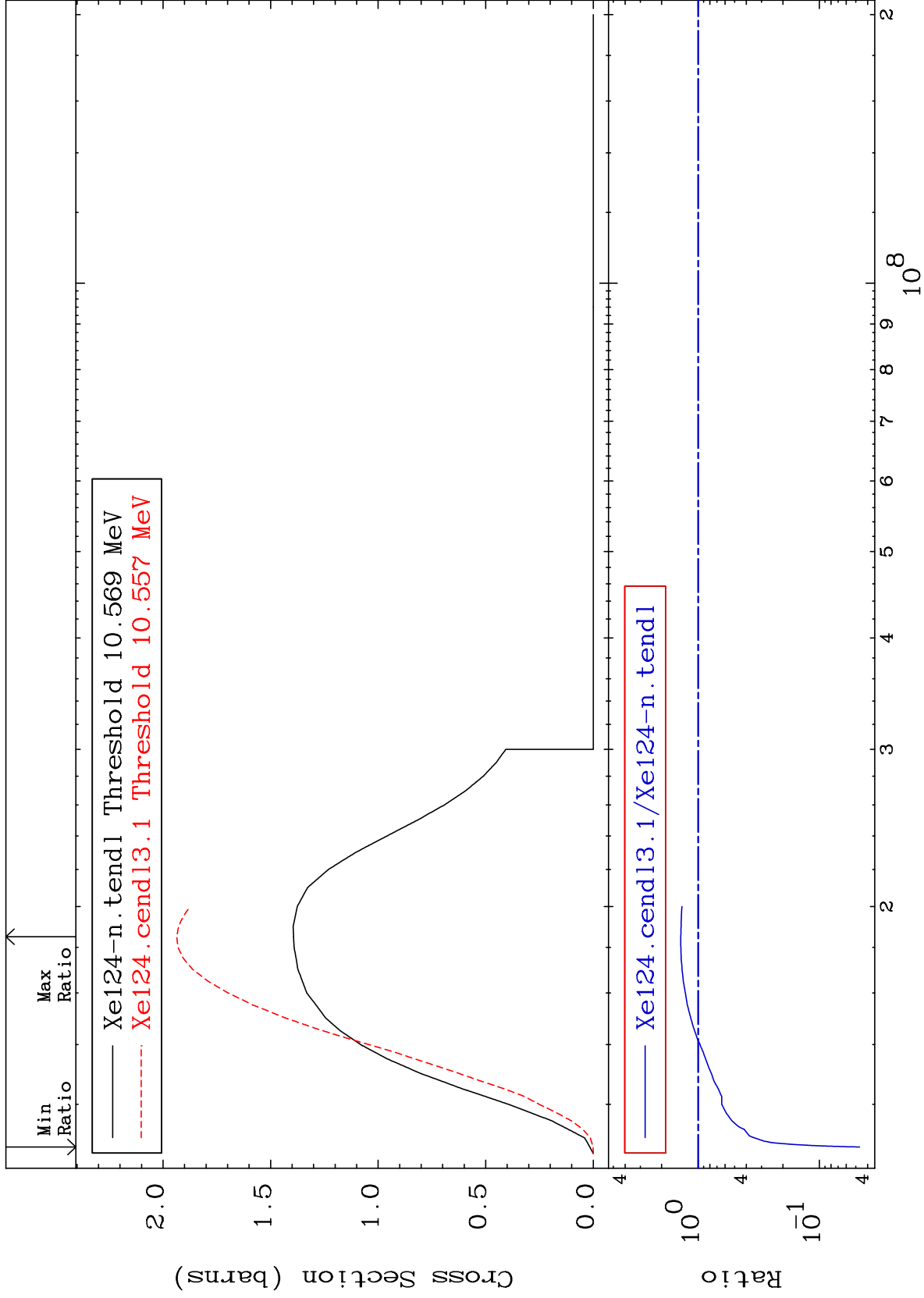
MAT 5425

(n,2n)

54-Xe-124

Cross Section

-95.34 To 39.00 %



Incident Energy (eV)

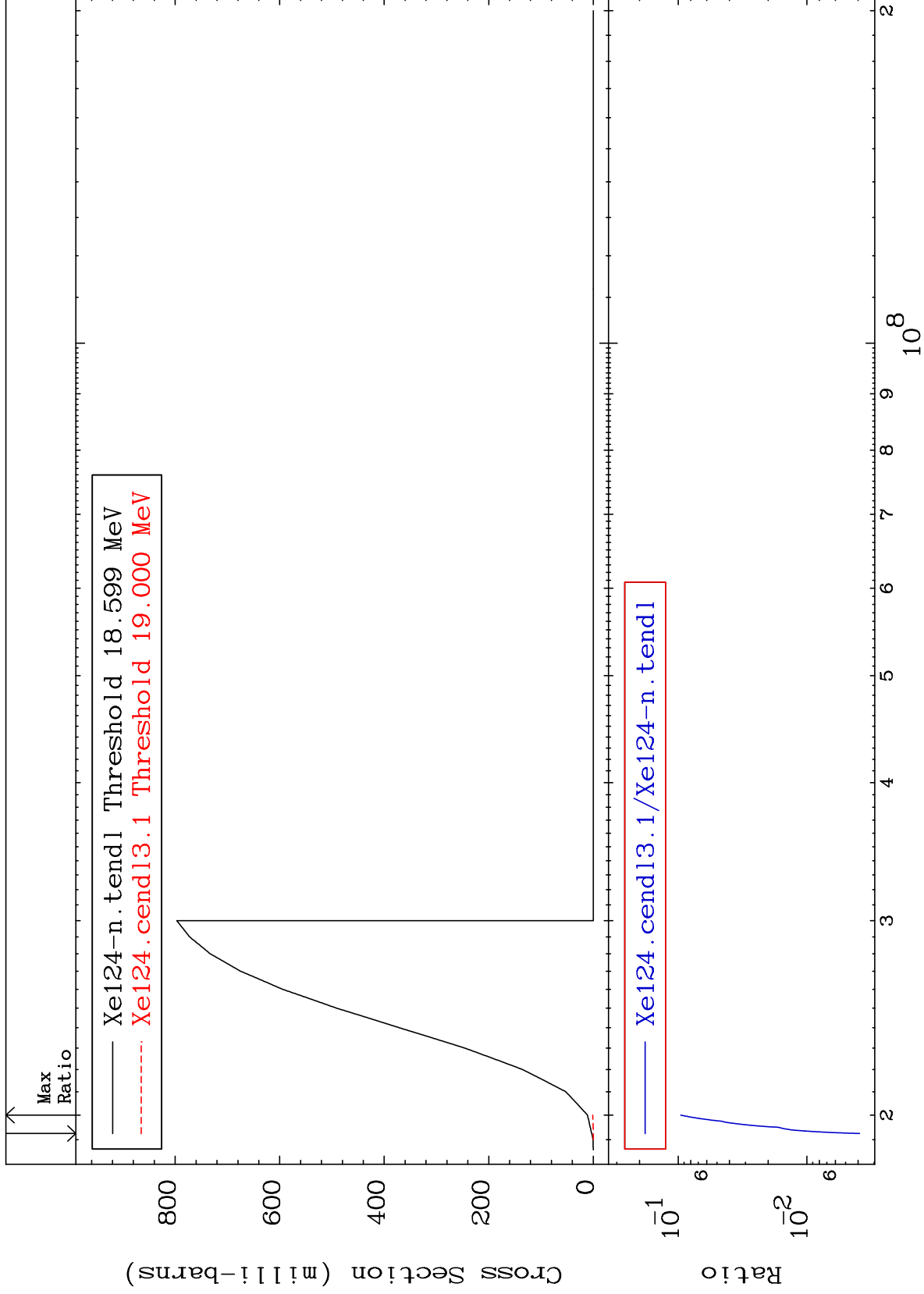
54-Xe-124

4

MAT 5425

(n,3n)
Cross Section

54-Xe-124
-99.61 To -90.45%



5

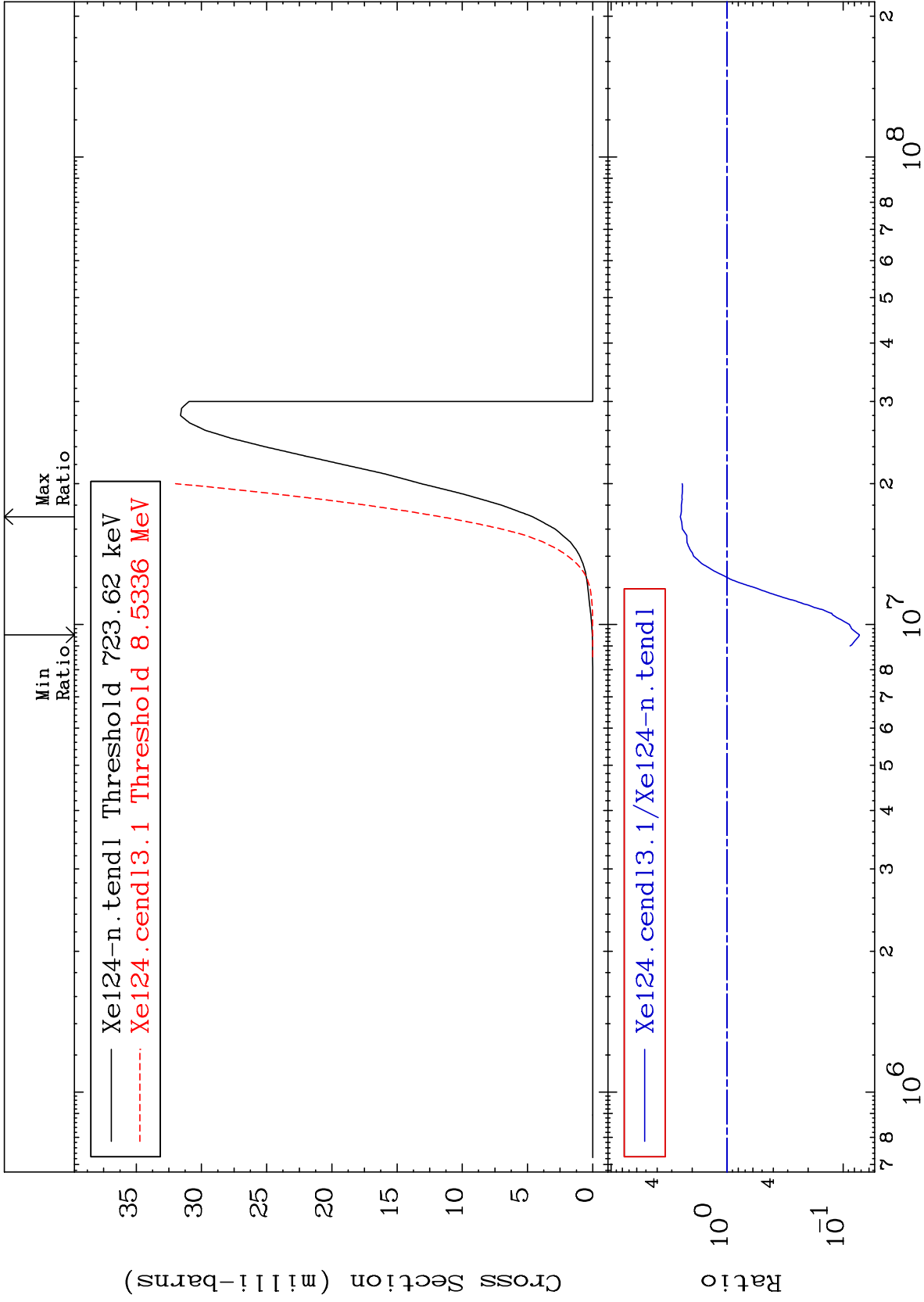
Incident Energy (eV)

54-Xe-124

MAT 5425

(n,n') α
Cross Section

54-Xe-124
-92.76 To 152.7 %



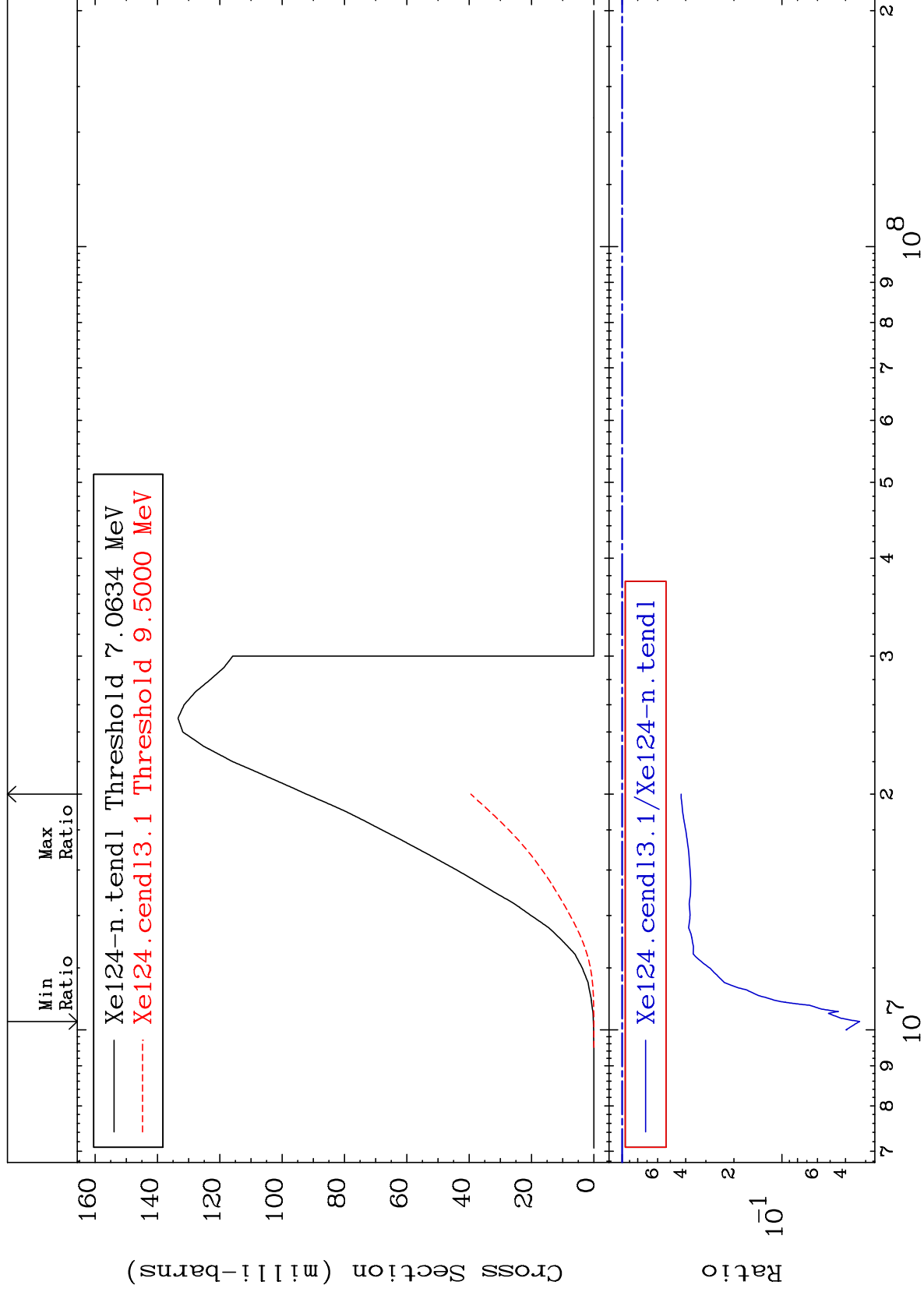
Incident Energy (eV)

54-Xe-124

MAT 5425

(n,n') p
Cross Section

54-Xe-124
-96.73 To -57.25%



7

Incident Energy (eV)

54-Xe-124

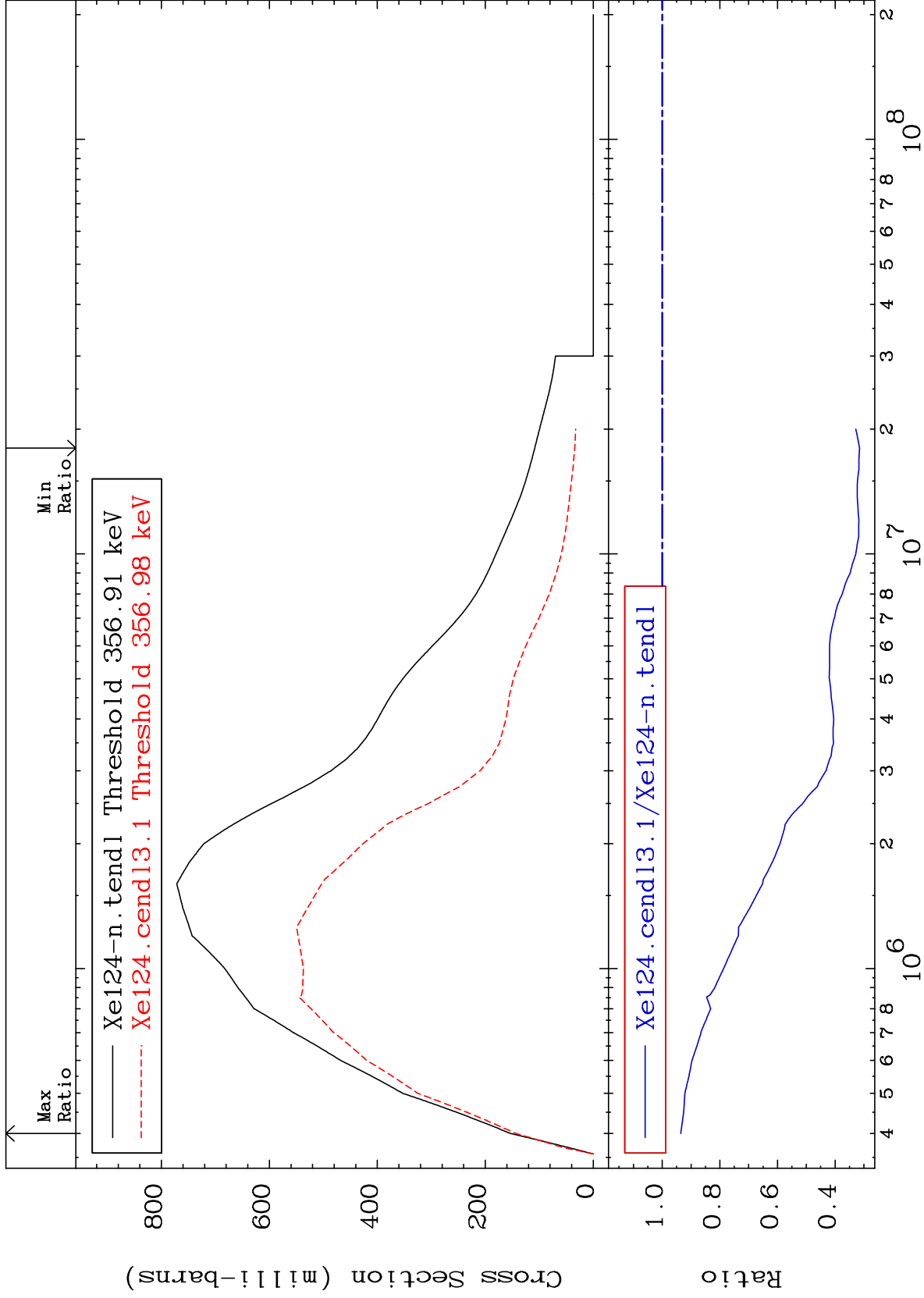
MAT 5425

354.0 keV (n,n') Level

54-Xe-124

-68.48 To -6.438%

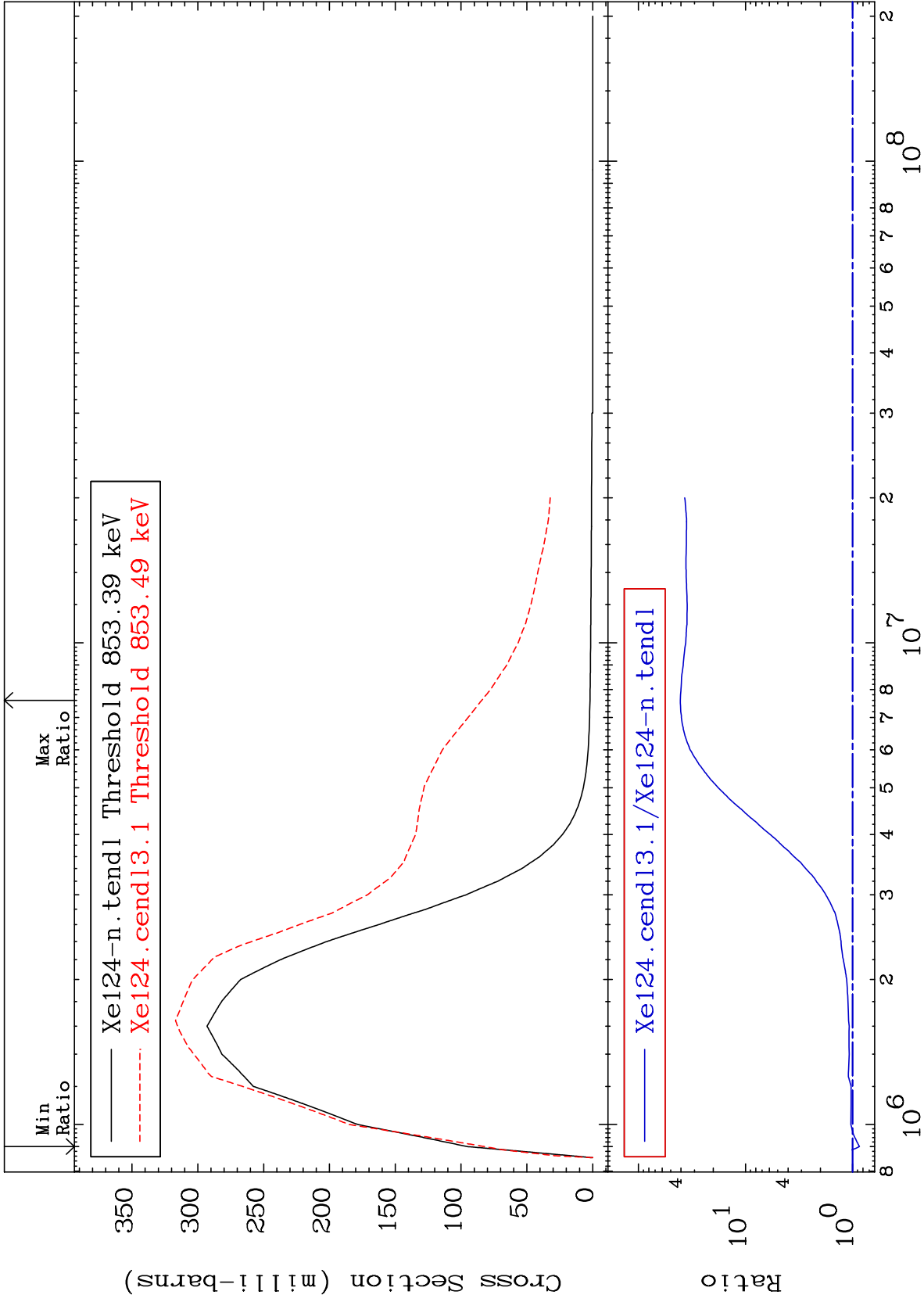
Cross Section



MAT 5425

846.5 keV (n,n') Level
Cross Section

54-Xe-124
-13.71 To 3959. %



9

Incident Energy (eV)

54-Xe-124

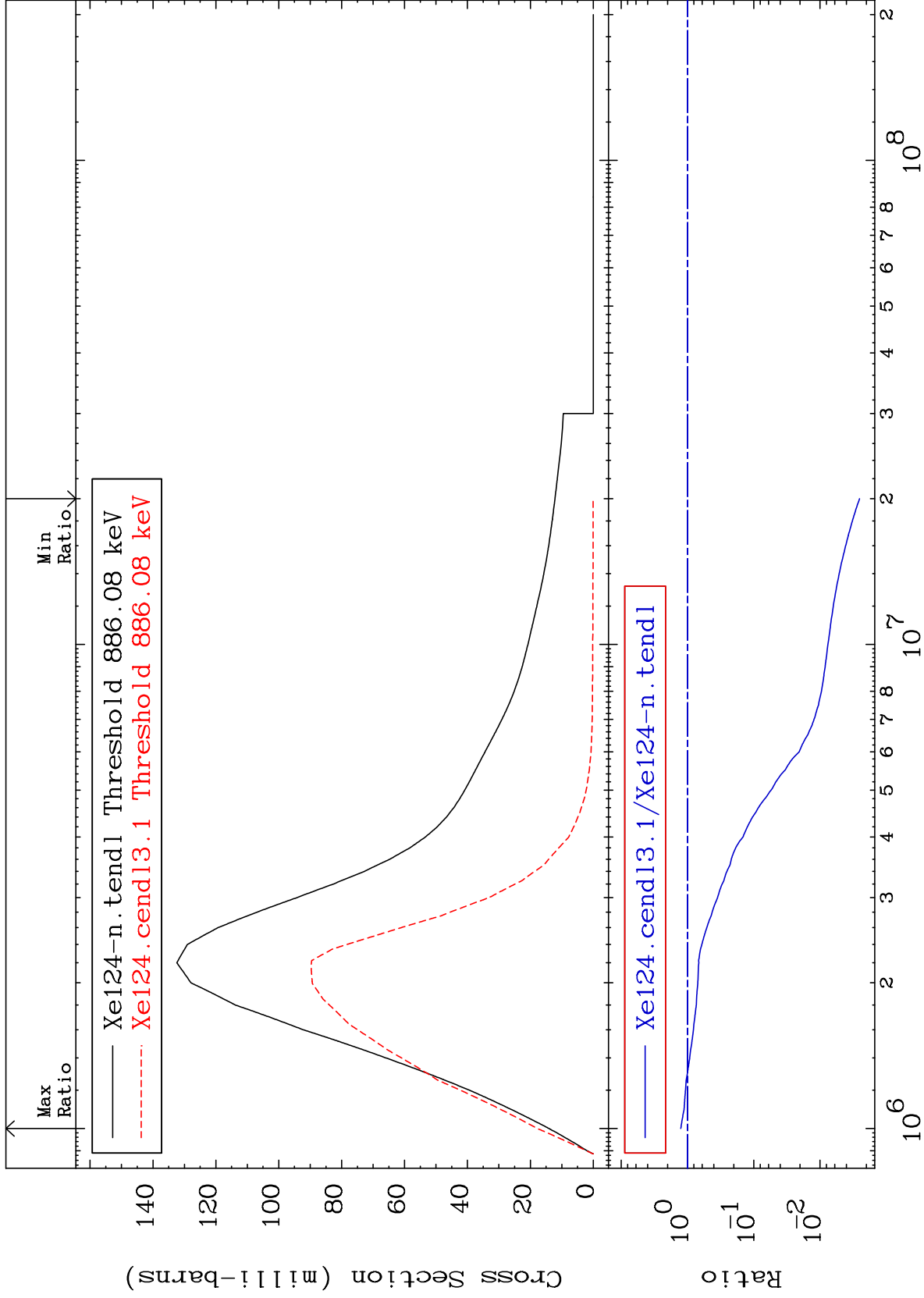
MAT 5425

878.9 keV (n,n') Level

54-Xe-124

-99.75 To 26.35 %

Cross Section



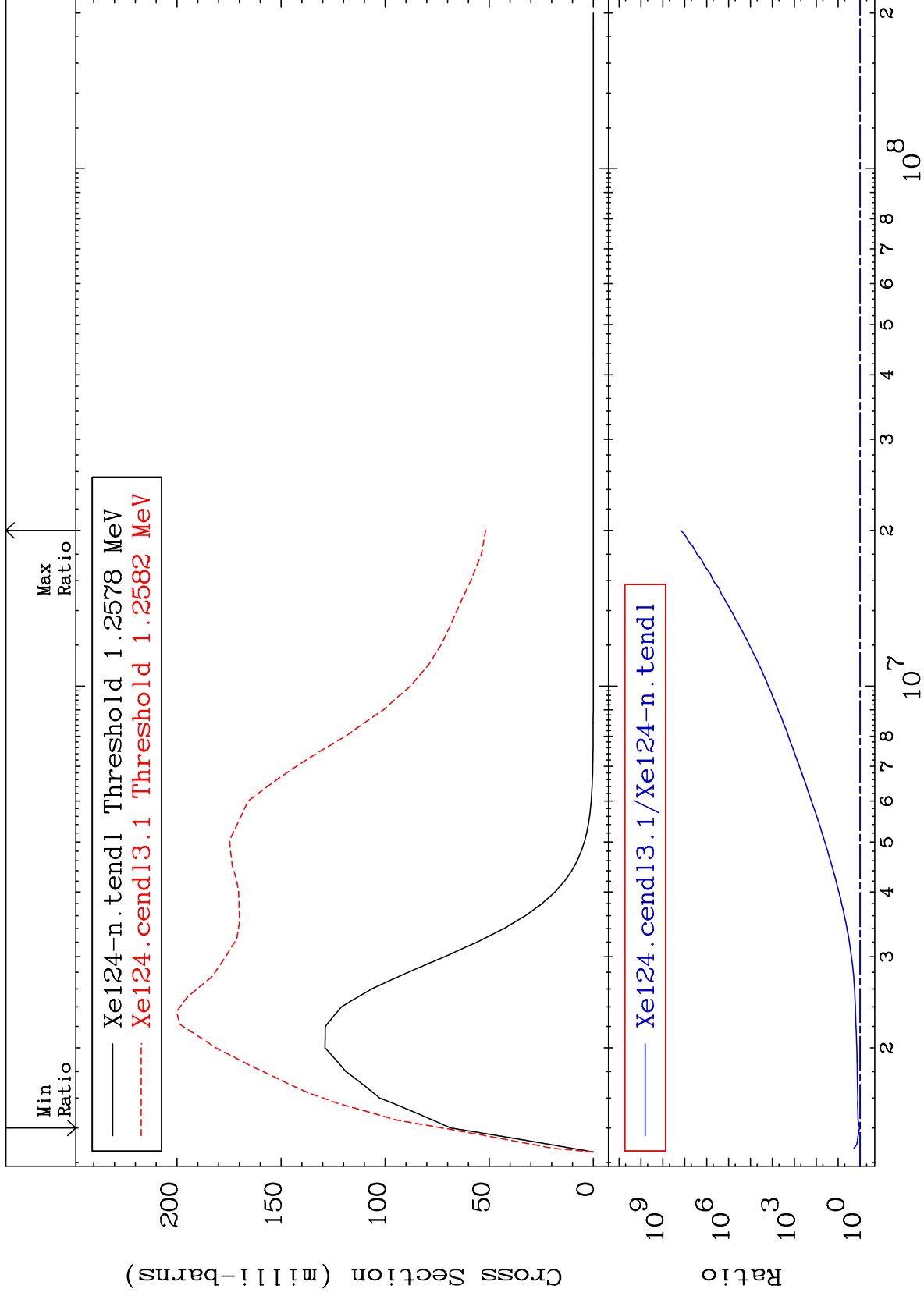
Incident Energy (eV)

54-Xe-124

MAT 5425

1.248 MeV (n,n') Level
Cross Section

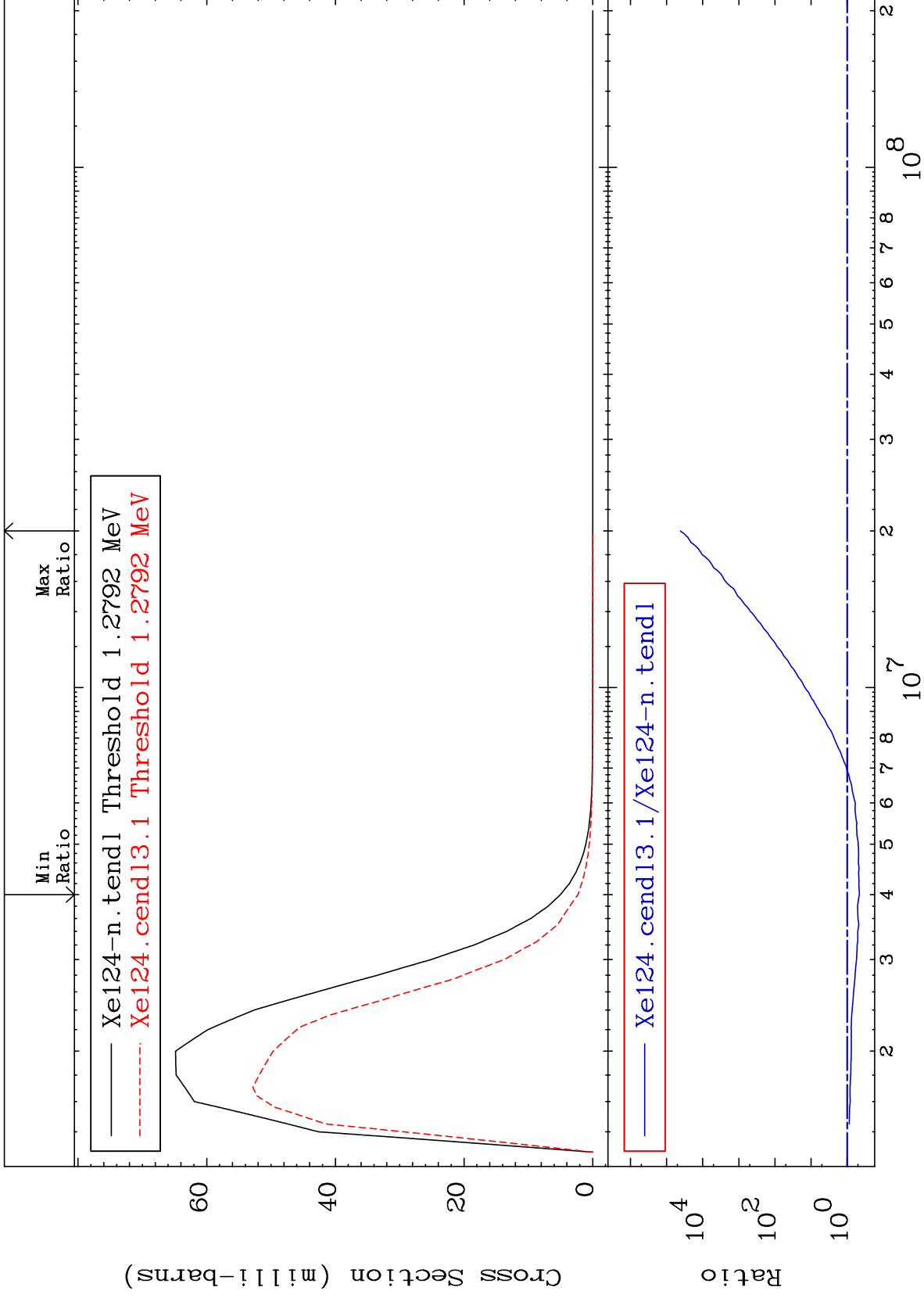
54-Xe-124
5.770 To 9999. %



MAT 5425

1.269 MeV (n,n') Level
Cross Section

54-Xe-124
-54.34 To 9999. %



12

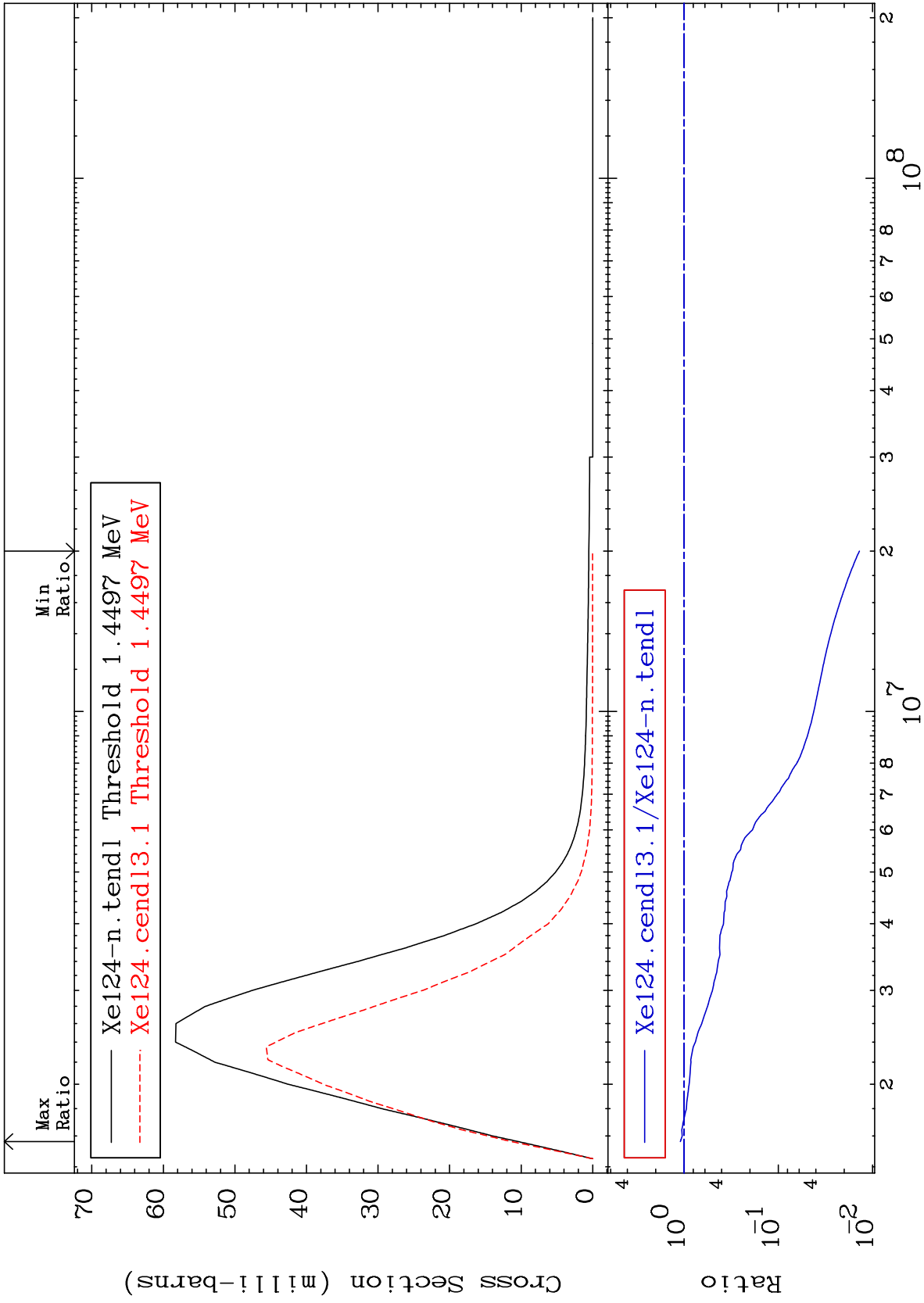
Incident Energy (eV)

54-Xe-124

MAT 5425

1.438 MeV (n,n') Level
Cross Section

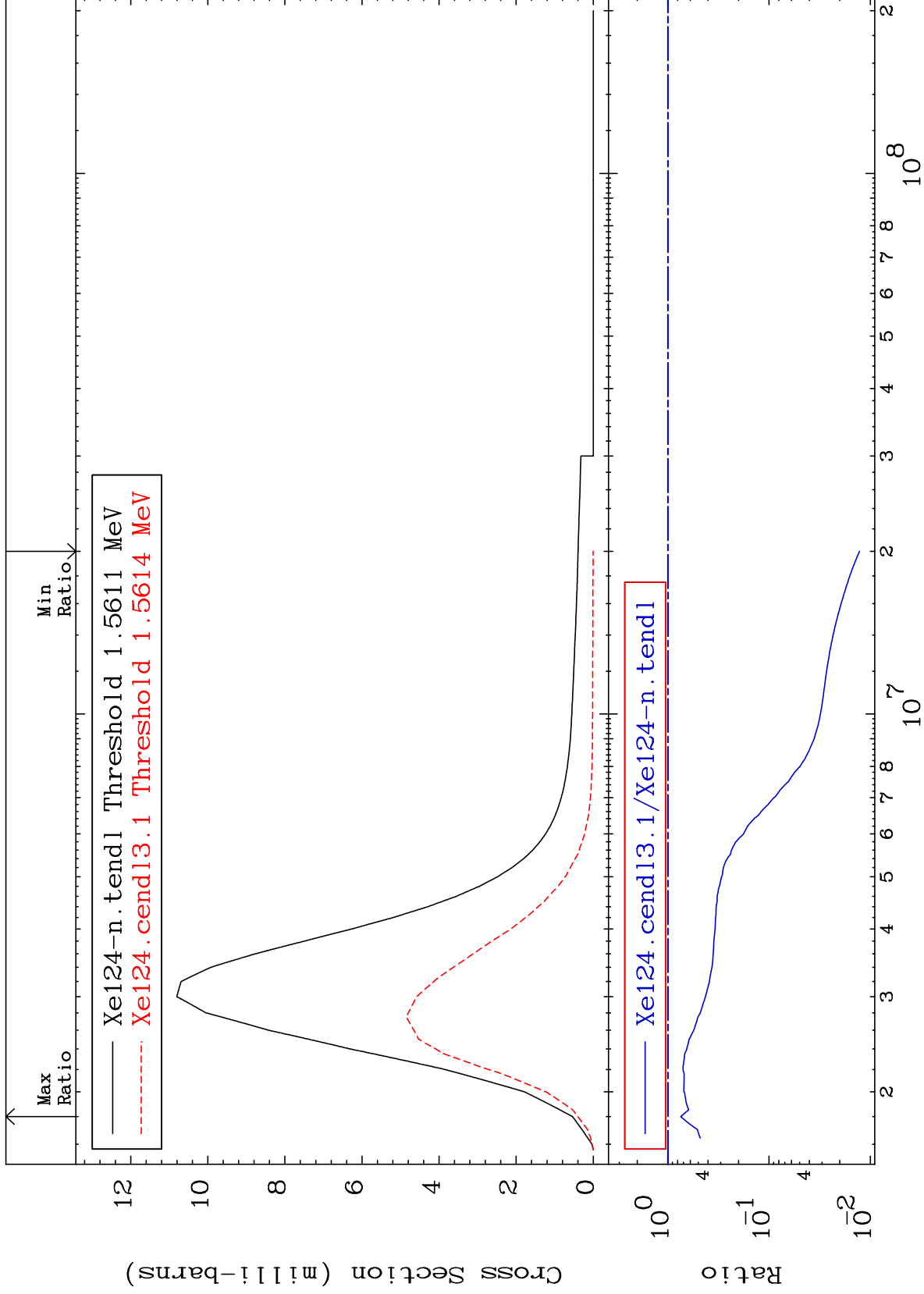
54-Xe-124
-98.62 To 9.504 %



MAT 5425

1.548 MeV (n,n') Level
Cross Section

54-Xe-124
-98.72 To -25.65%



14

Incident Energy (eV)

54-Xe-124

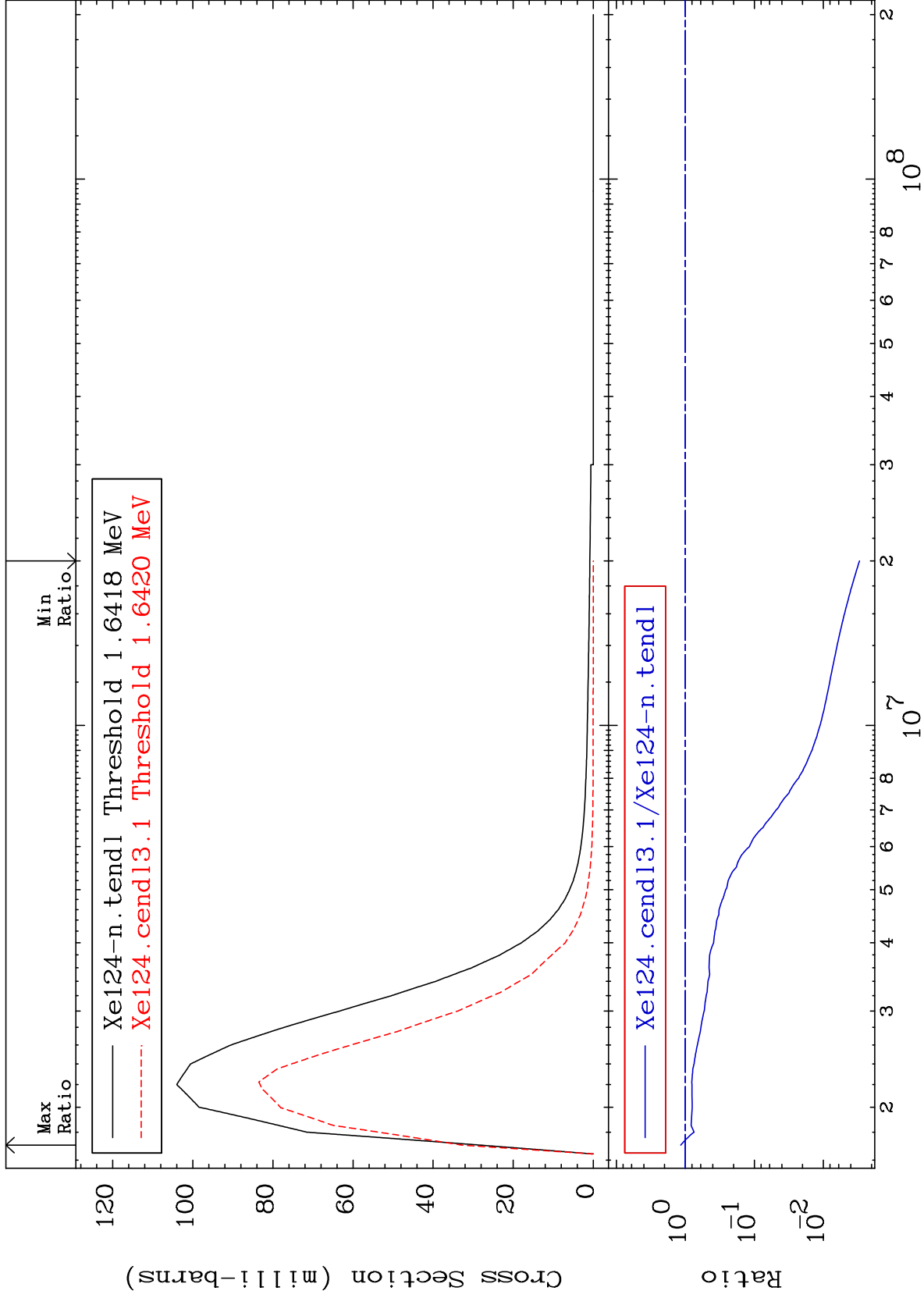
MAT 5425

1.629 MeV (n,n') Level

54-Xe-124

-99.70 To 16.51 %

Cross Section



15

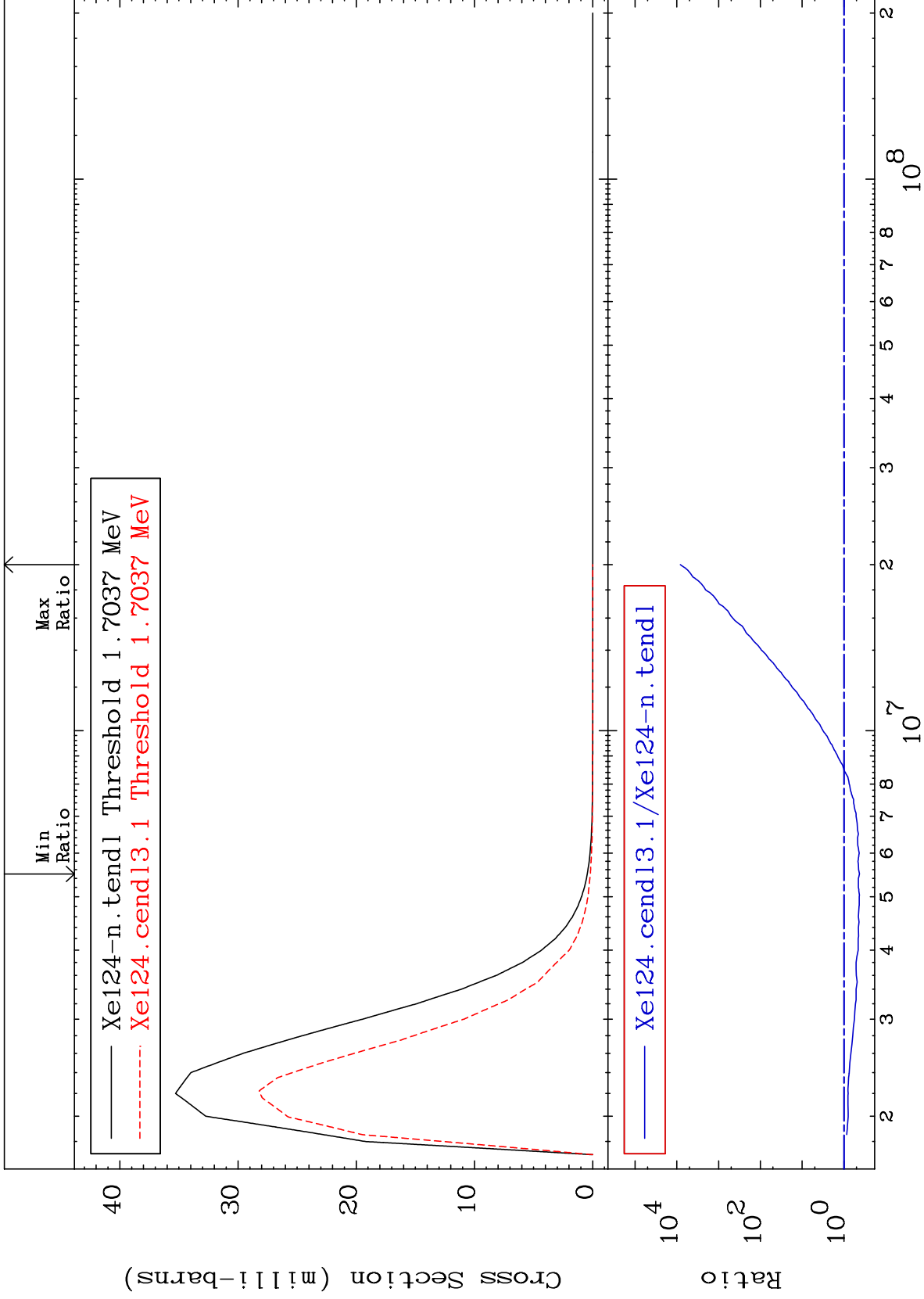
Incident Energy (eV)

54-Xe-124

MAT 5425

1.690 MeV (n,n') Level
Cross Section

54-Xe-124
-57.40 To 9999. %



16

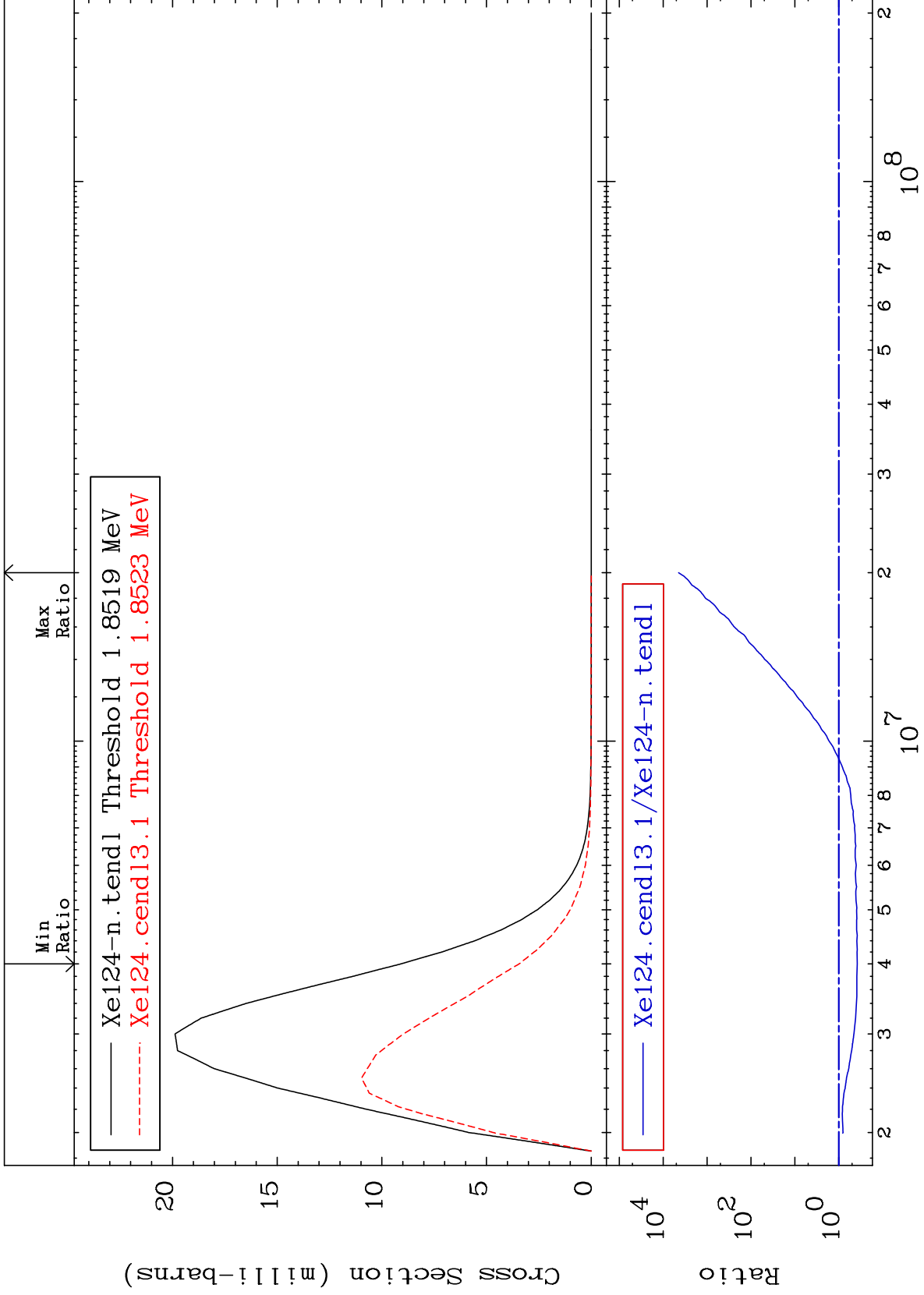
Incident Energy (eV)

54-Xe-124

MAT 5425

1.837 MeV (n,n') Level
Cross Section

54-Xe-124
-62.11 To 9999. %



17

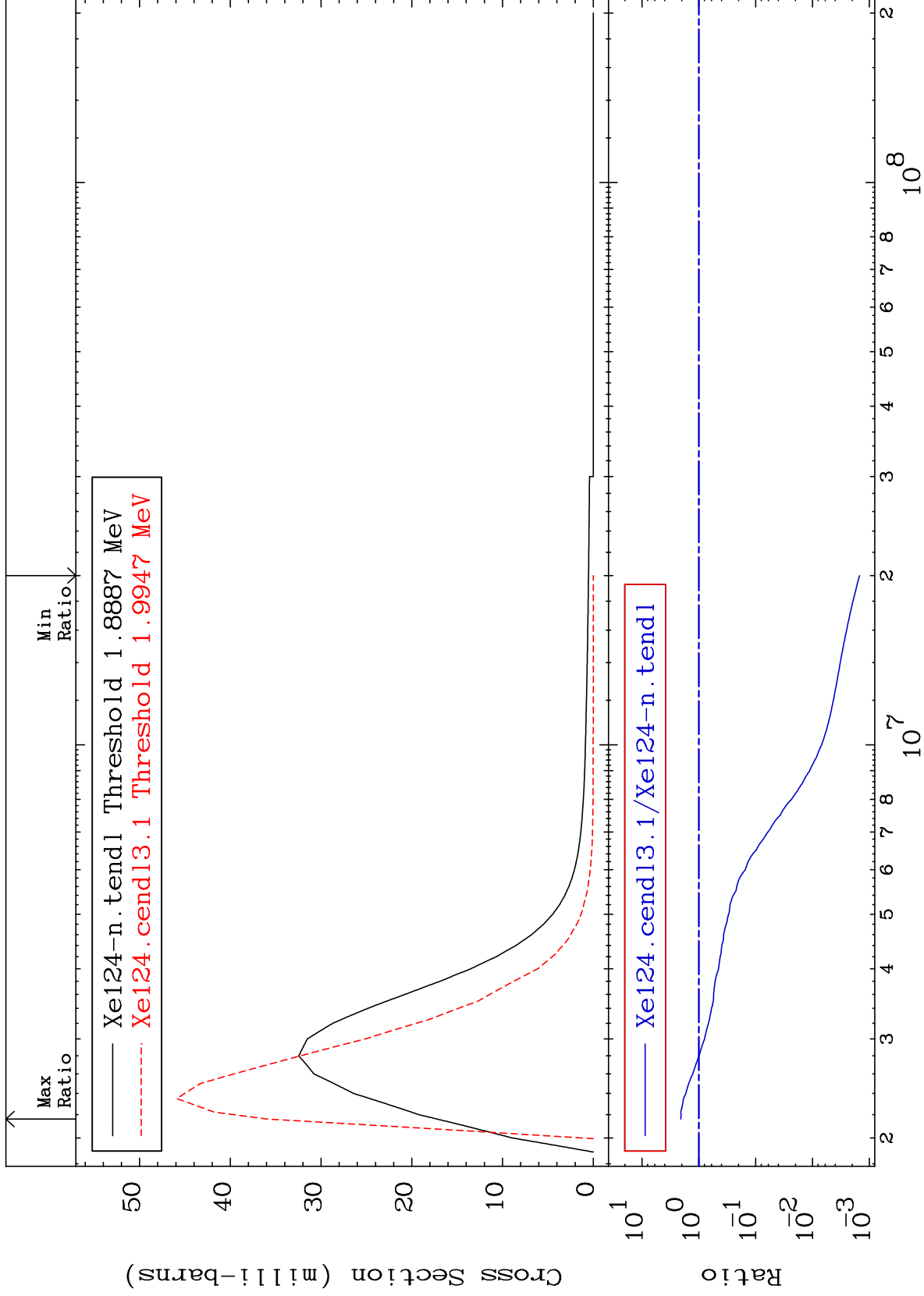
Incident Energy (eV)

54-Xe-124

MAT 5425

1.873 MeV (n,n') Level
Cross Section

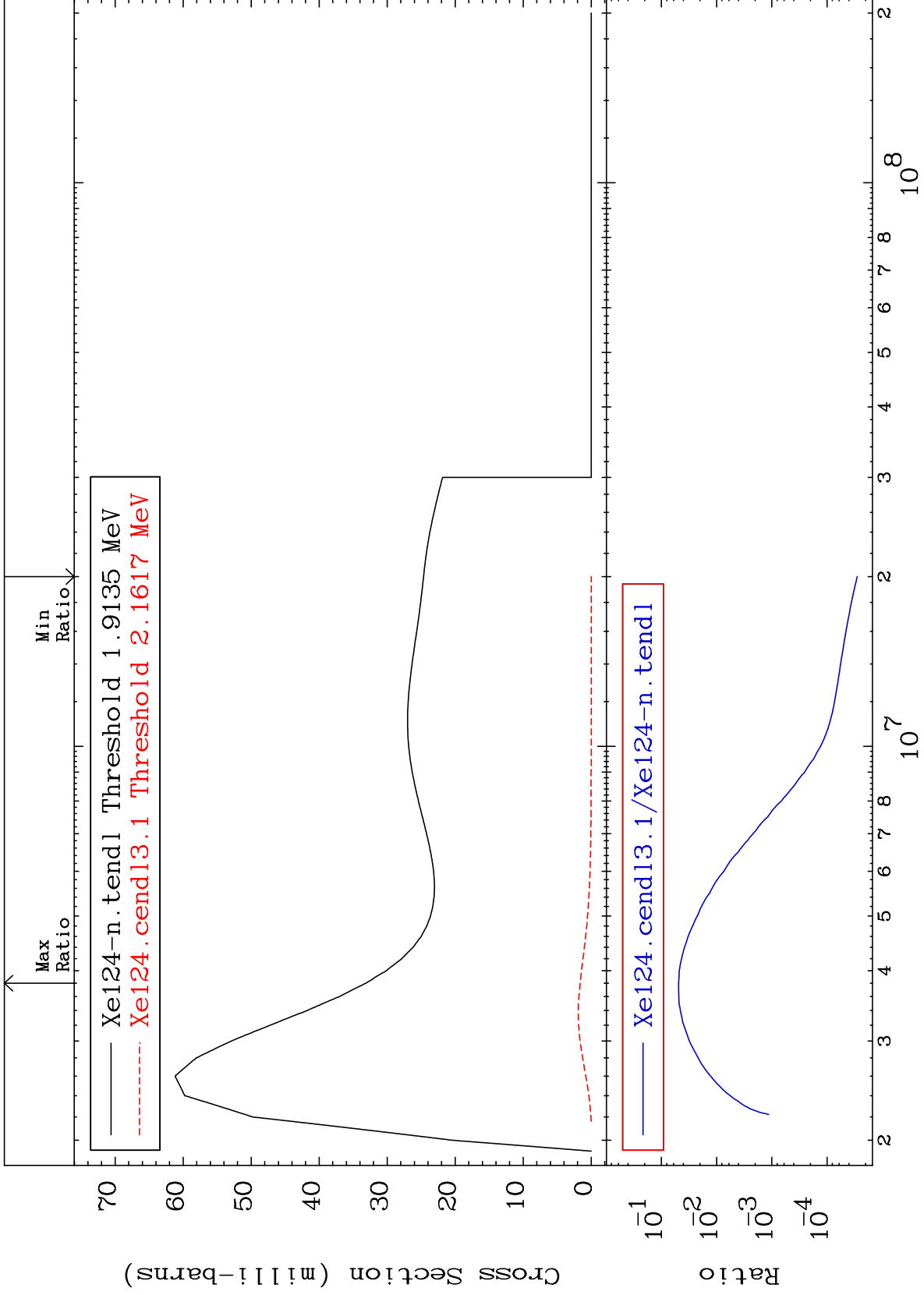
54-Xe-124
-99.85 To 108.7 %



MAT 5425

1.898 MeV (n,n') Level
Cross Section

54-Xe-124
-100.0 To -95.13%



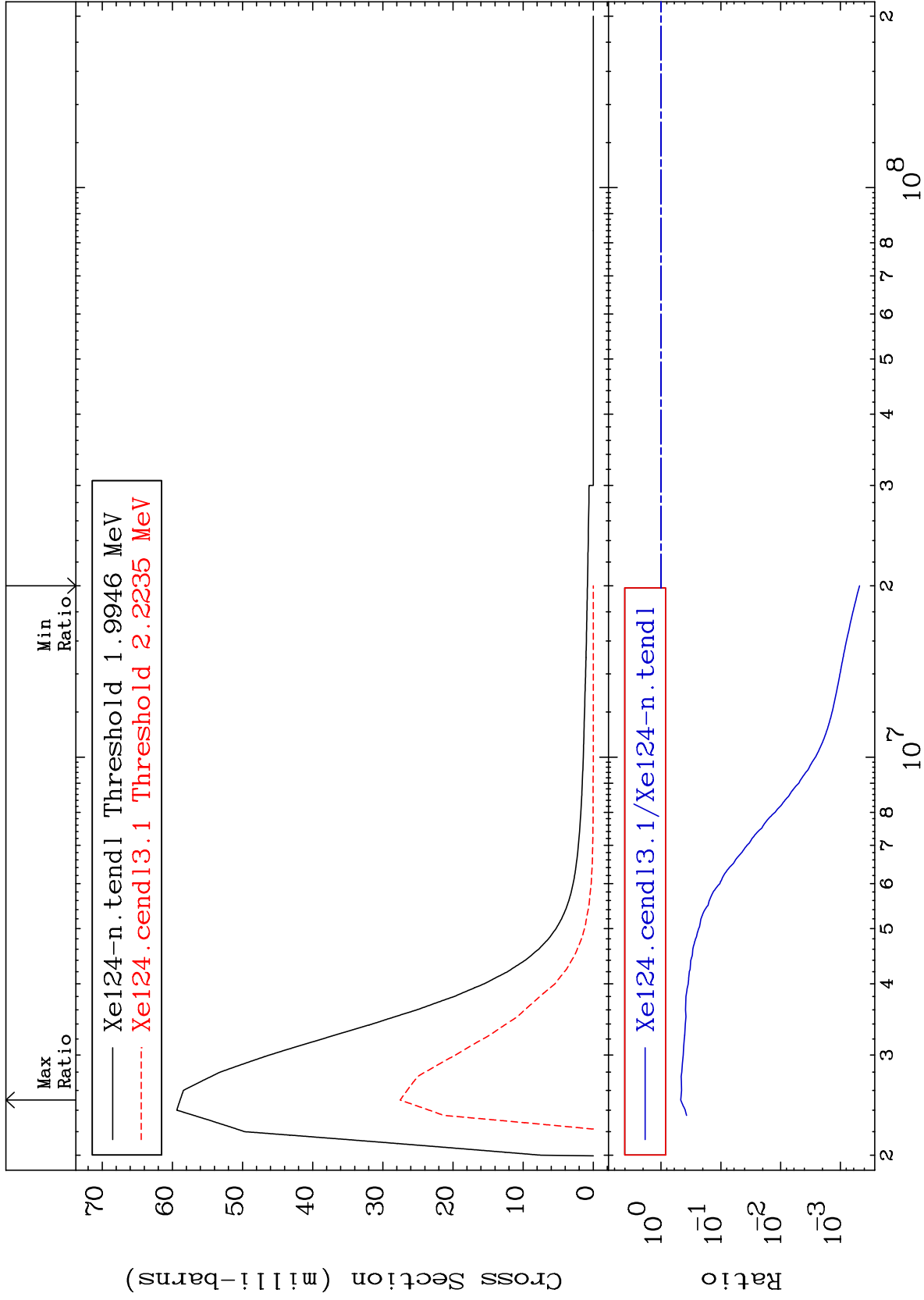
MAT 5425

1.979 MeV (n,n') Level

54-Xe-124

-99.95 To -53.26%

Cross Section



20

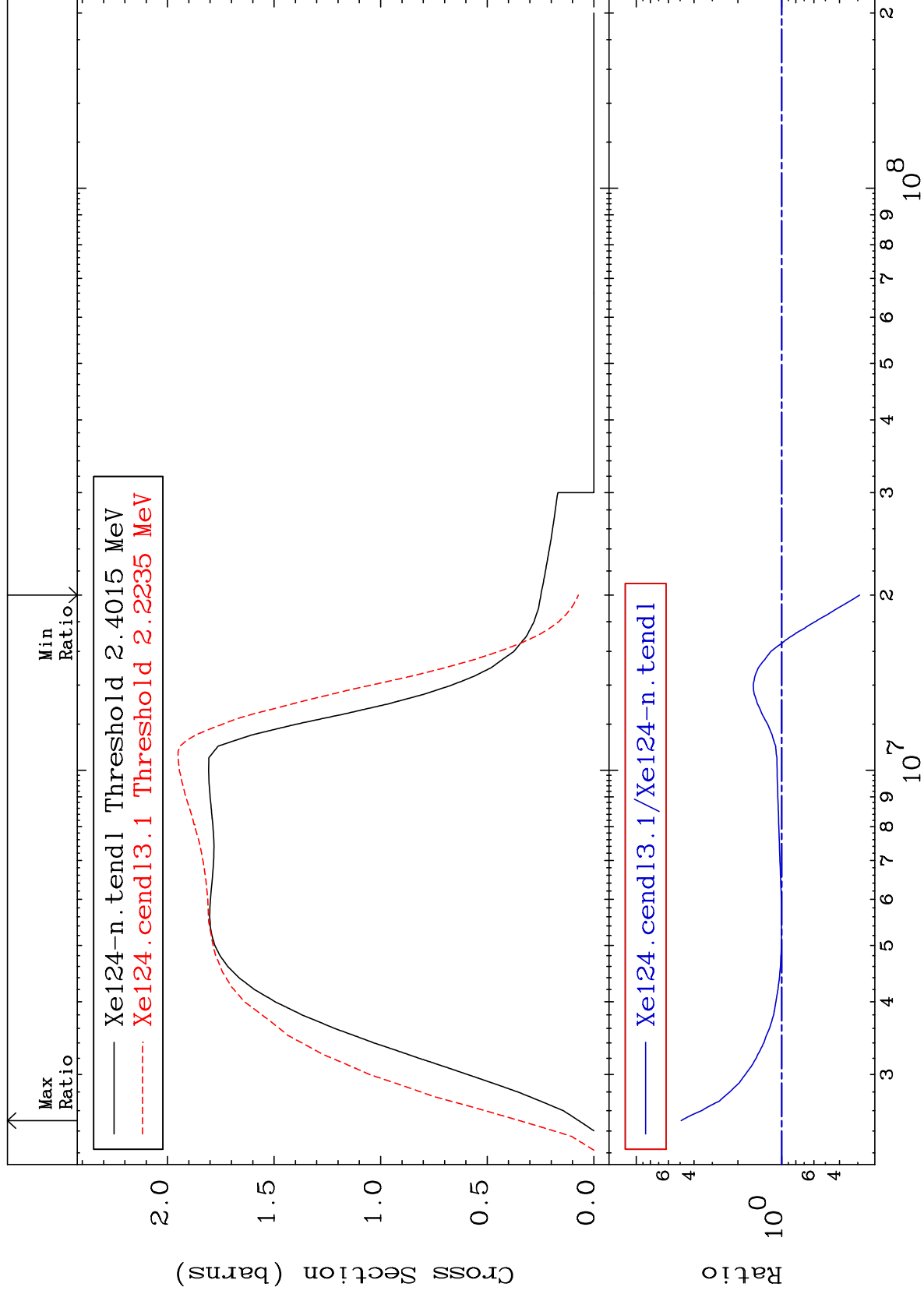
Incident Energy (eV)

54-Xe-124

MAT 5425

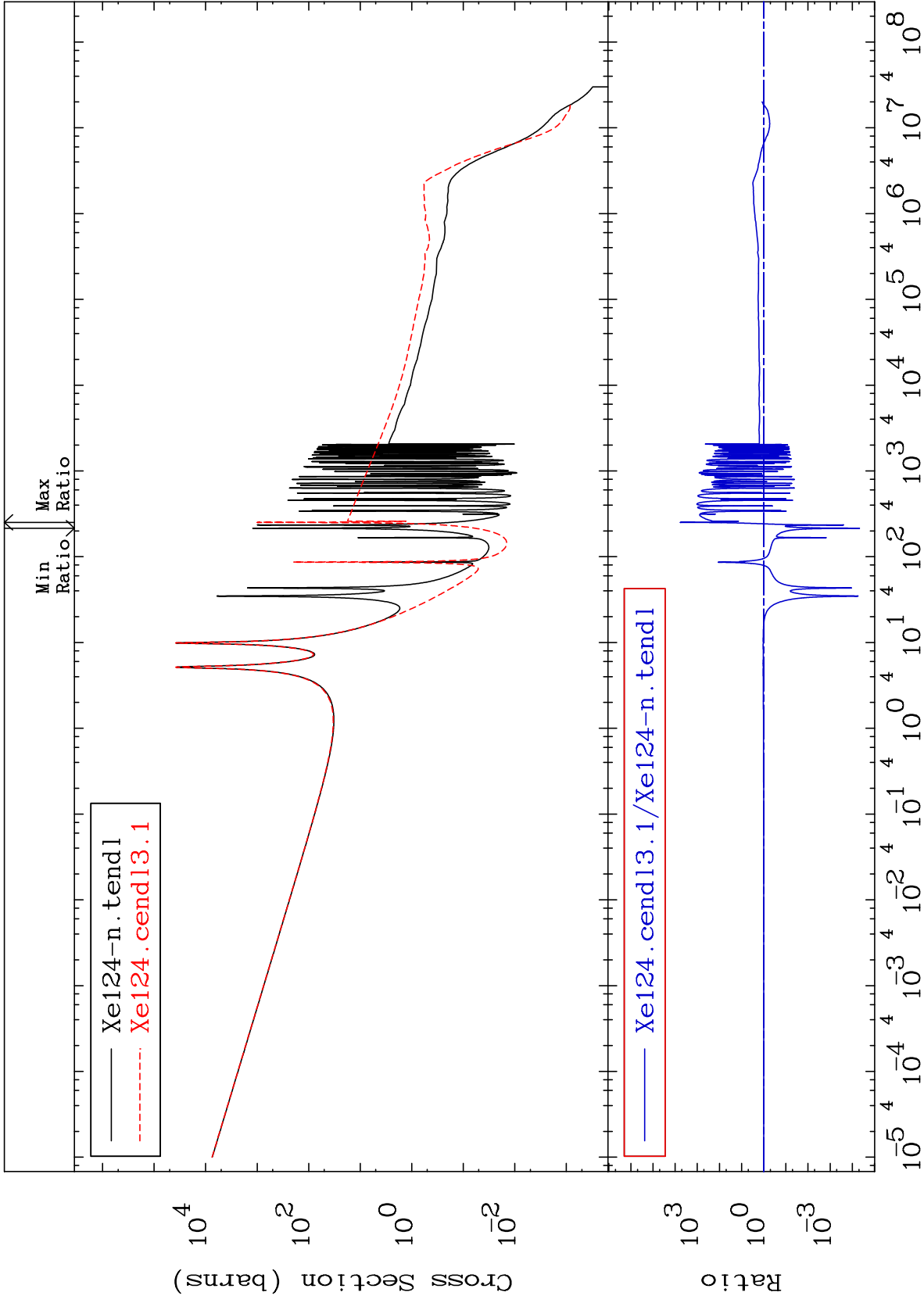
(n, n') Continuum
Cross Section

54-Xe-124
-70.90 To 391.0 %



MAT 5425

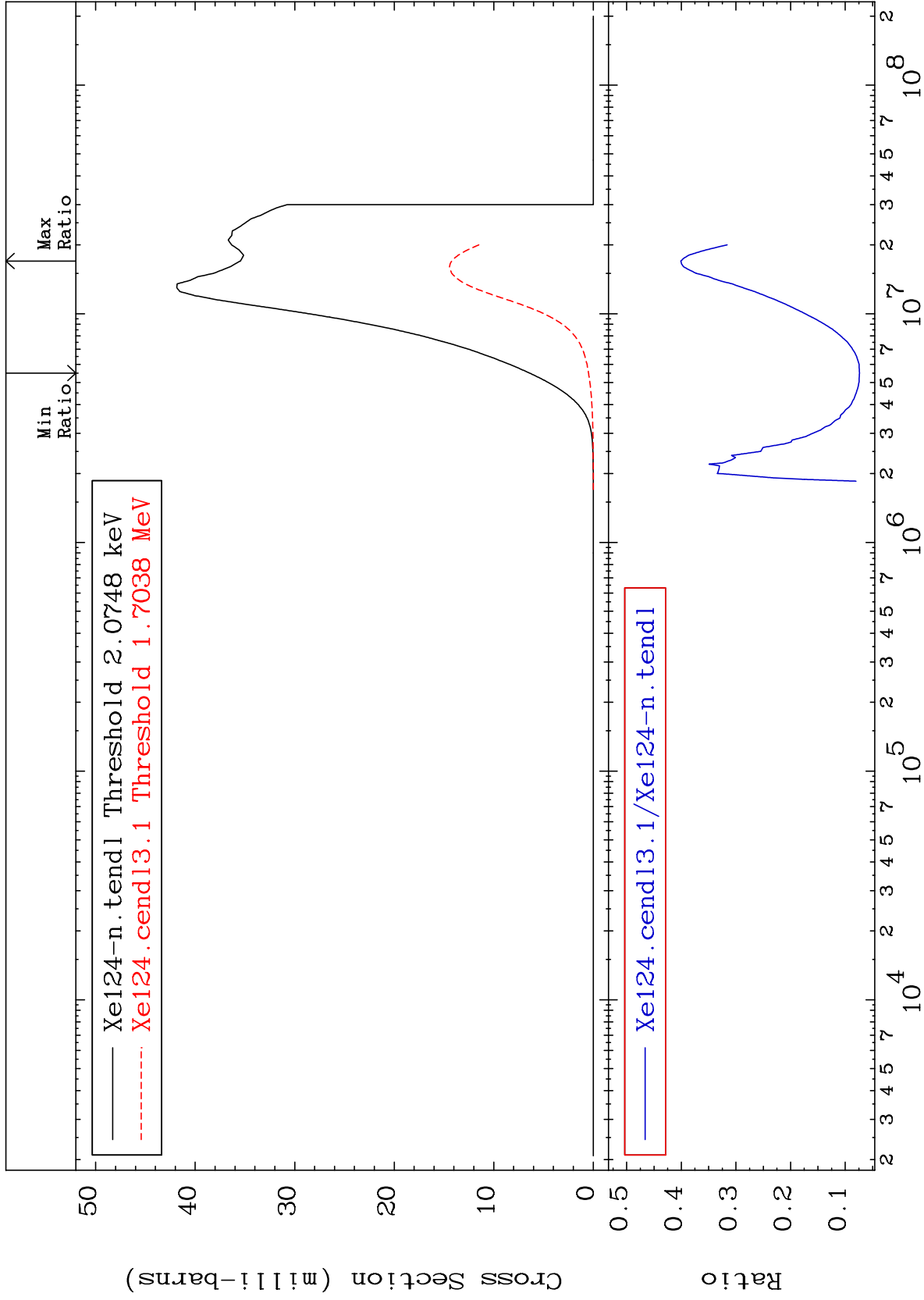
(n, γ)
Cross Section
54-Xe-124
-100.0 To 9999. %



MAT 5425

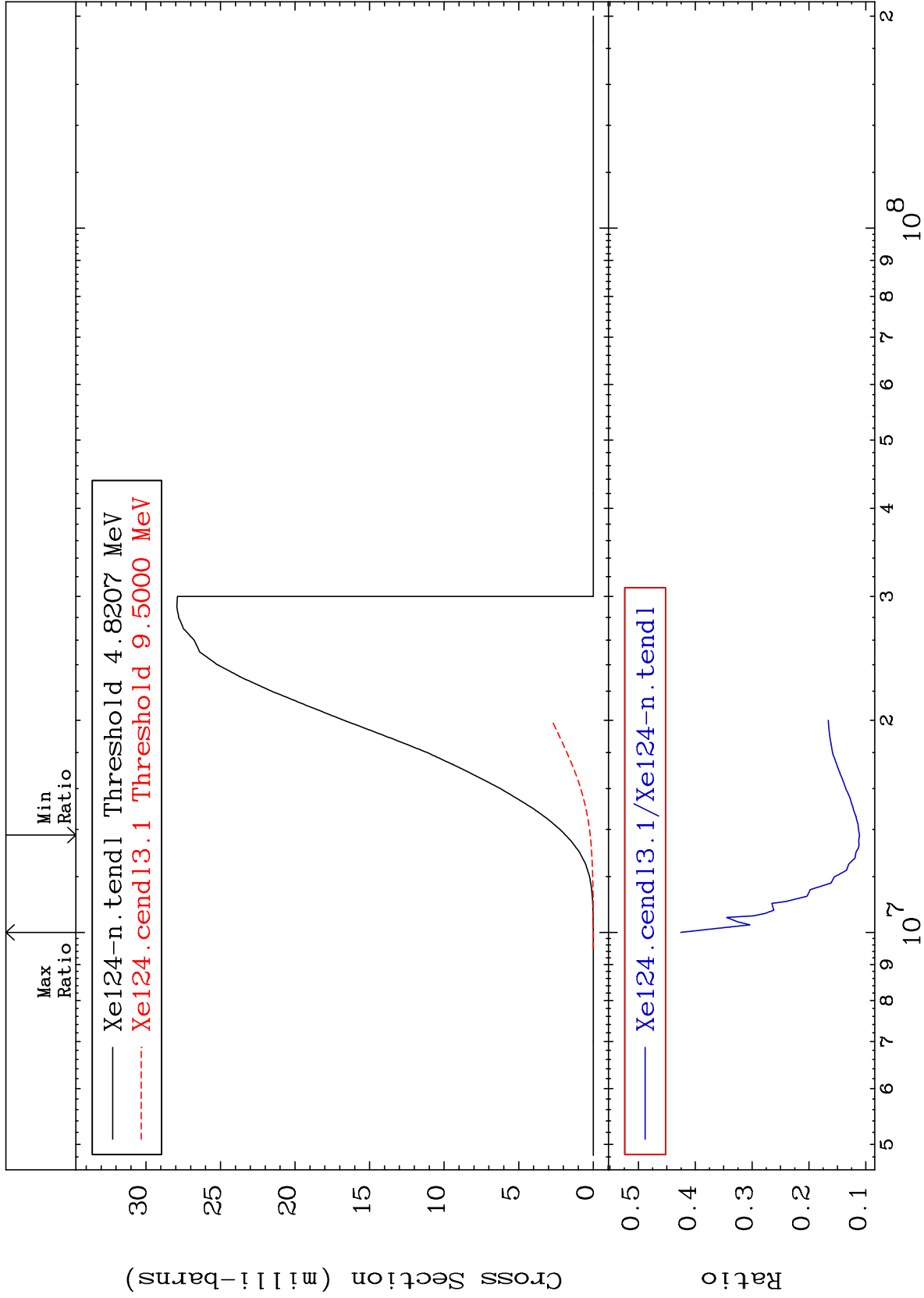
(n,p)
Cross Section

54-Xe-124
-92.62 To -59.90%



Cross Section

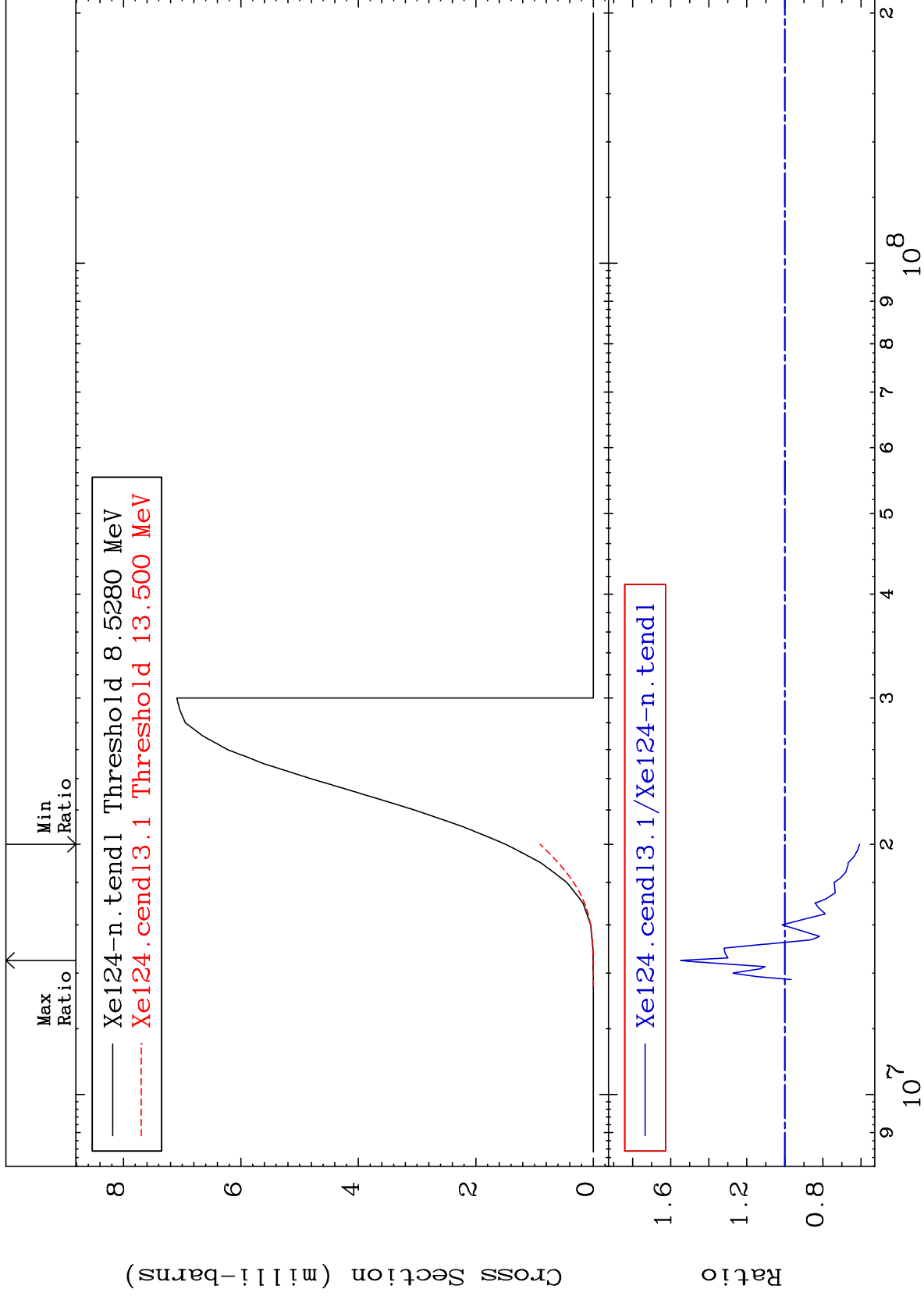
-88.90 To -57.45%



MAT 5425

(n, t)
Cross Section

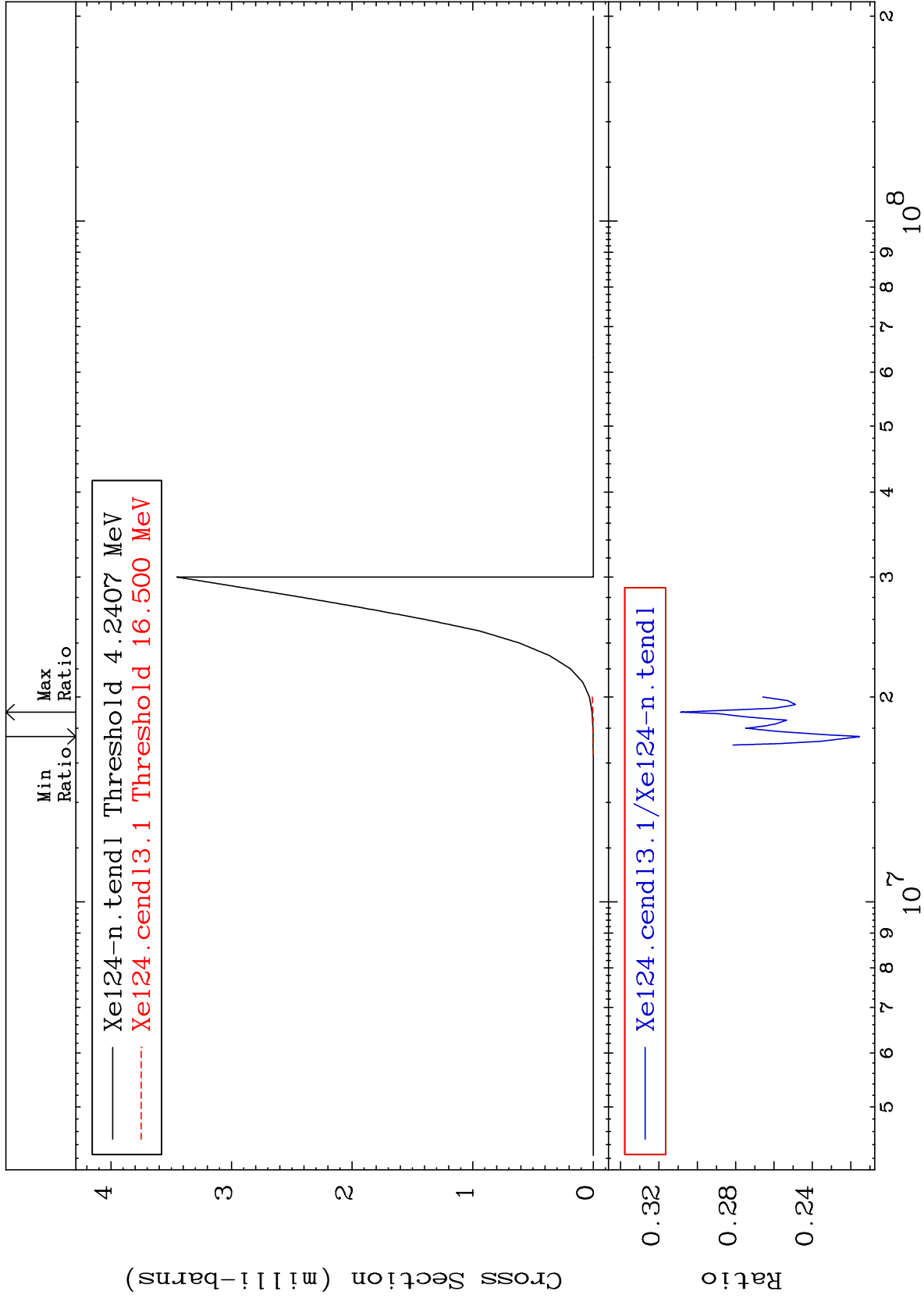
54-Xe-124
-39.25 To 54.71 %



25

Incident Energy (eV)

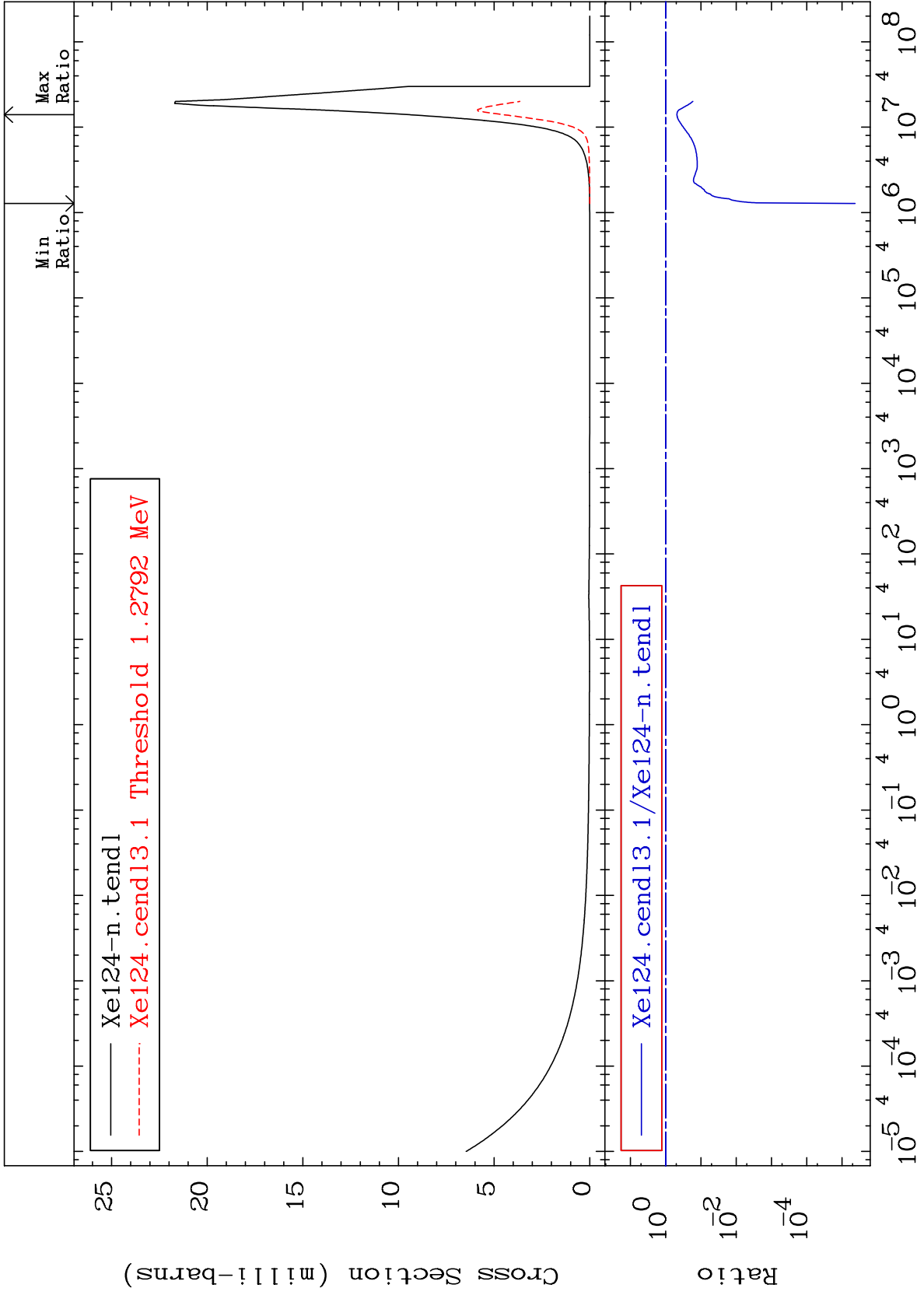
54-Xe-124



MAT 5425

(n, α)
Cross Section

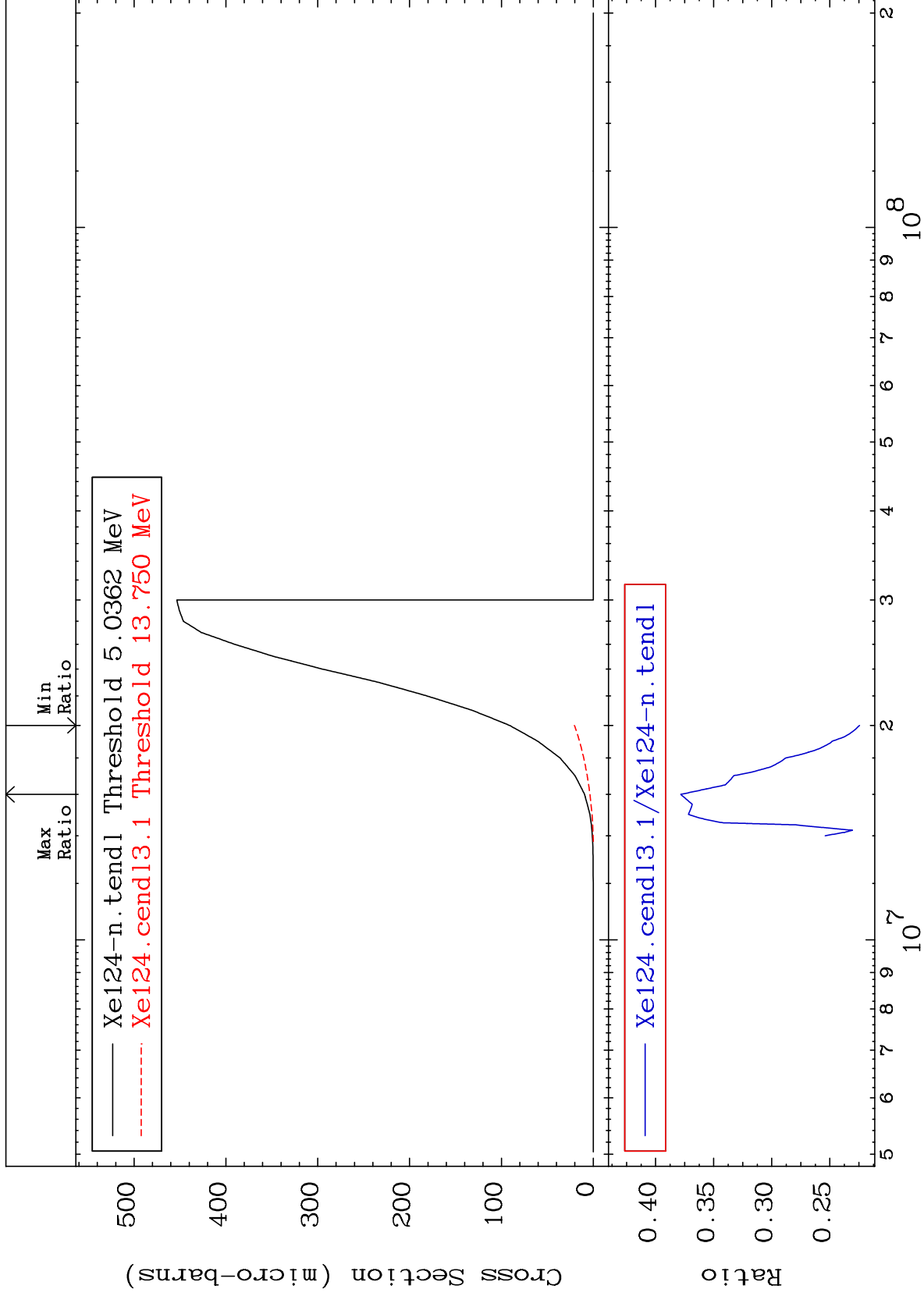
54-Xe-124
-100.0 To -52.27%



MAT 5425

(n,2p)
Cross Section

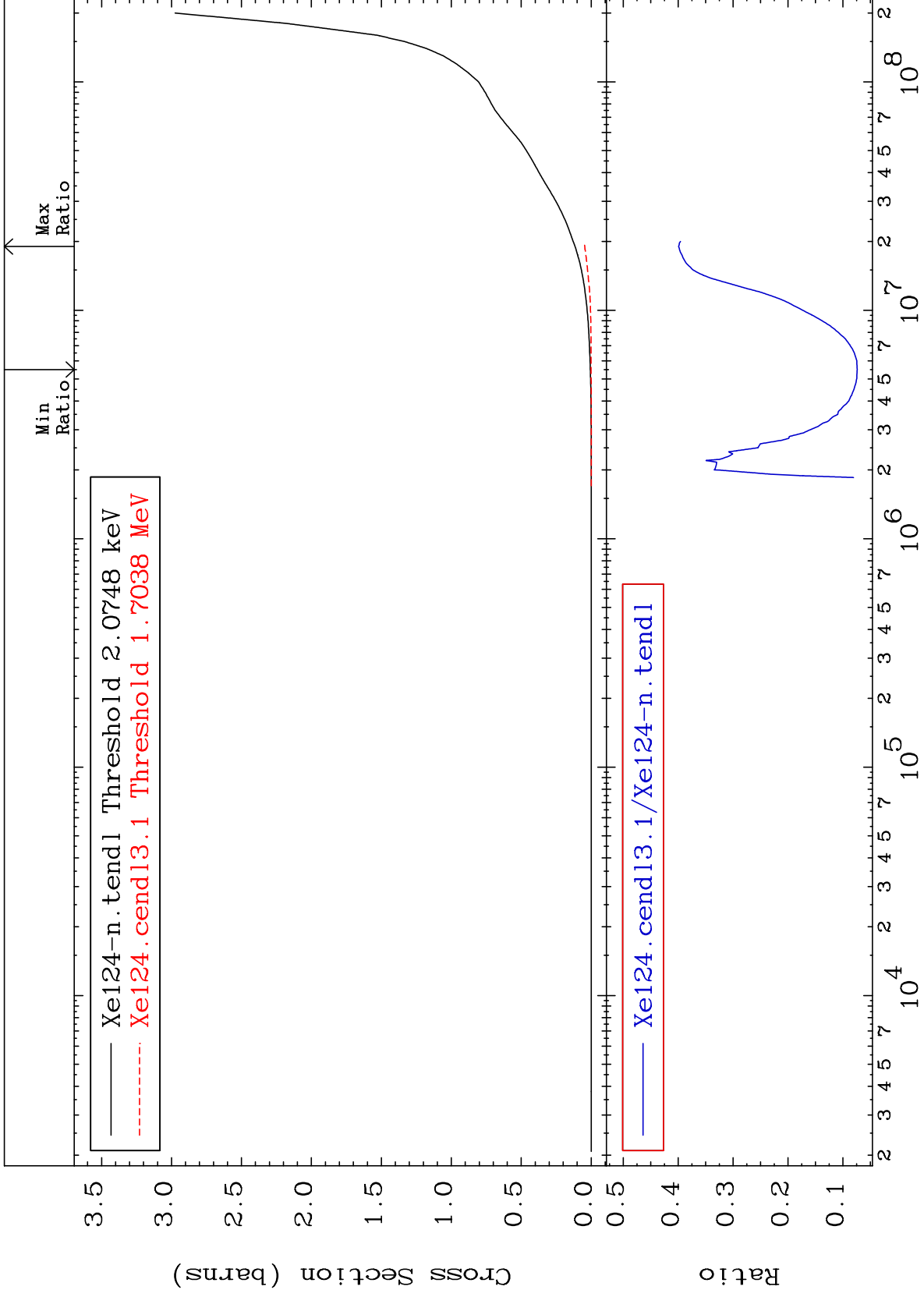
54-Xe-124
-77.56 To -62.17%



28

Incident Energy (eV)

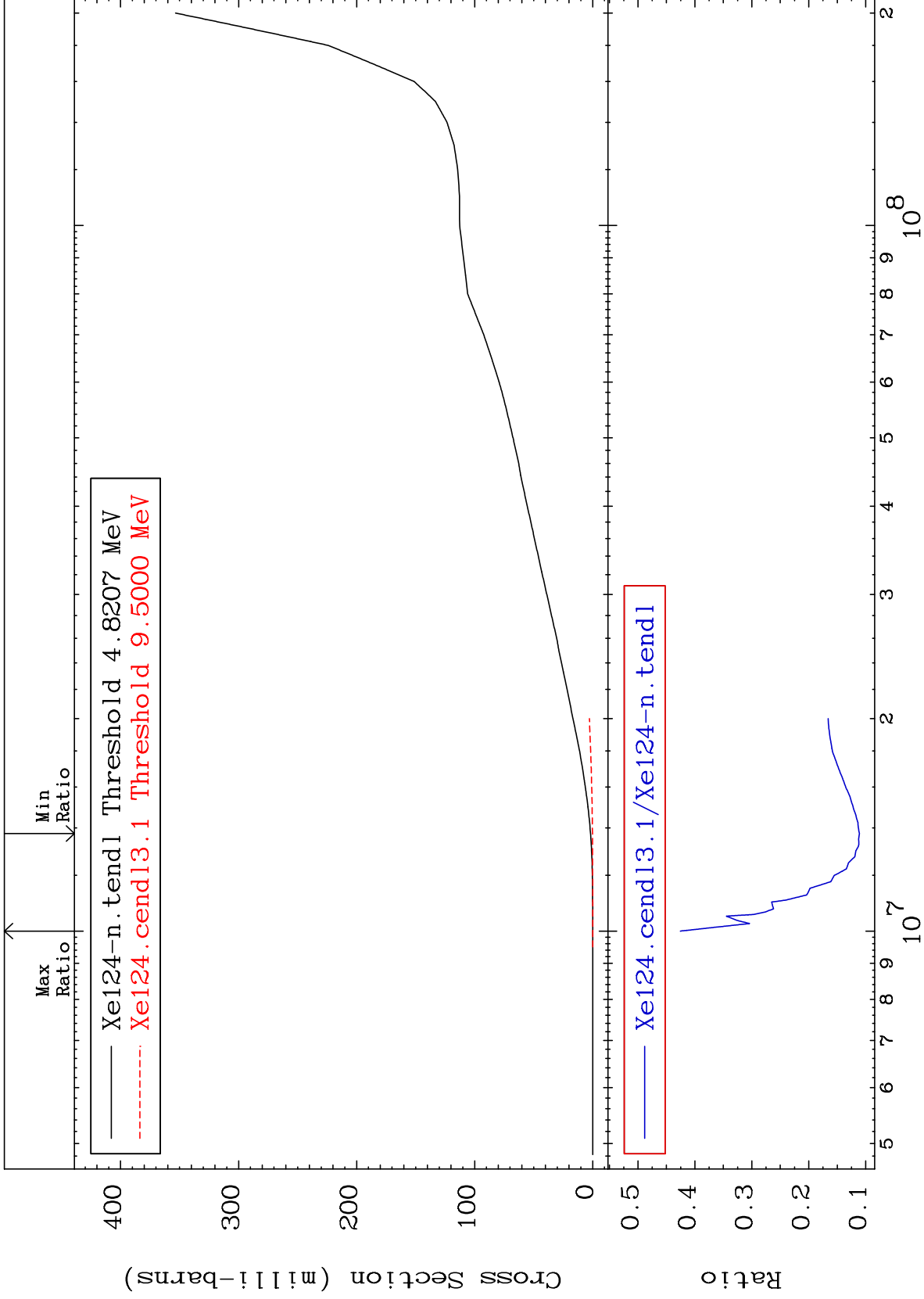
54-Xe-124



MAT 5425

Deuterium Production
Cross Section

54-Xe-124
-88.90 To -57.45%



30

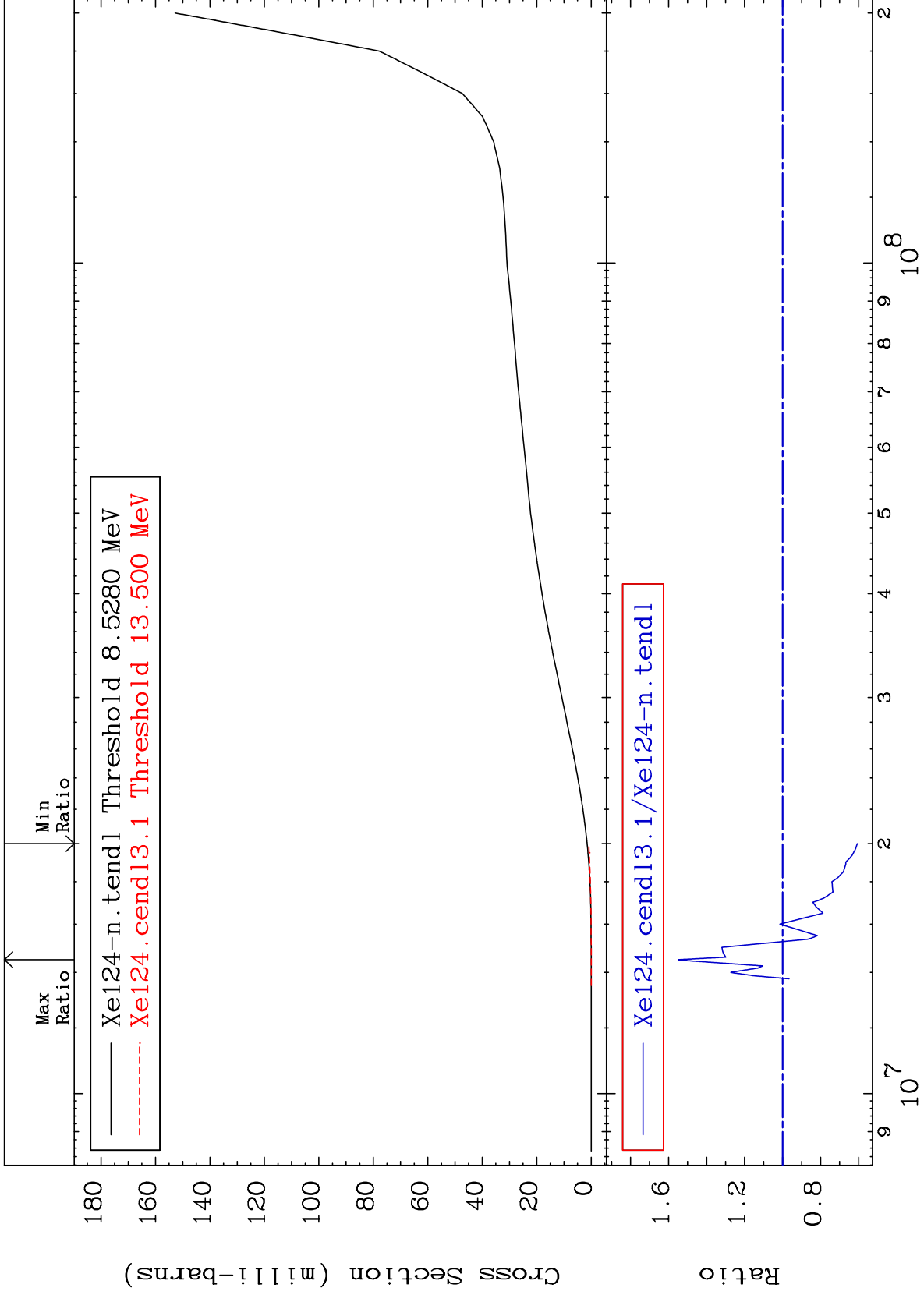
Incident Energy (eV)

54-Xe-124

MAT 5425

Tritium Production
Cross Section

54-Xe-124
-39.25 To 54.71 %



31

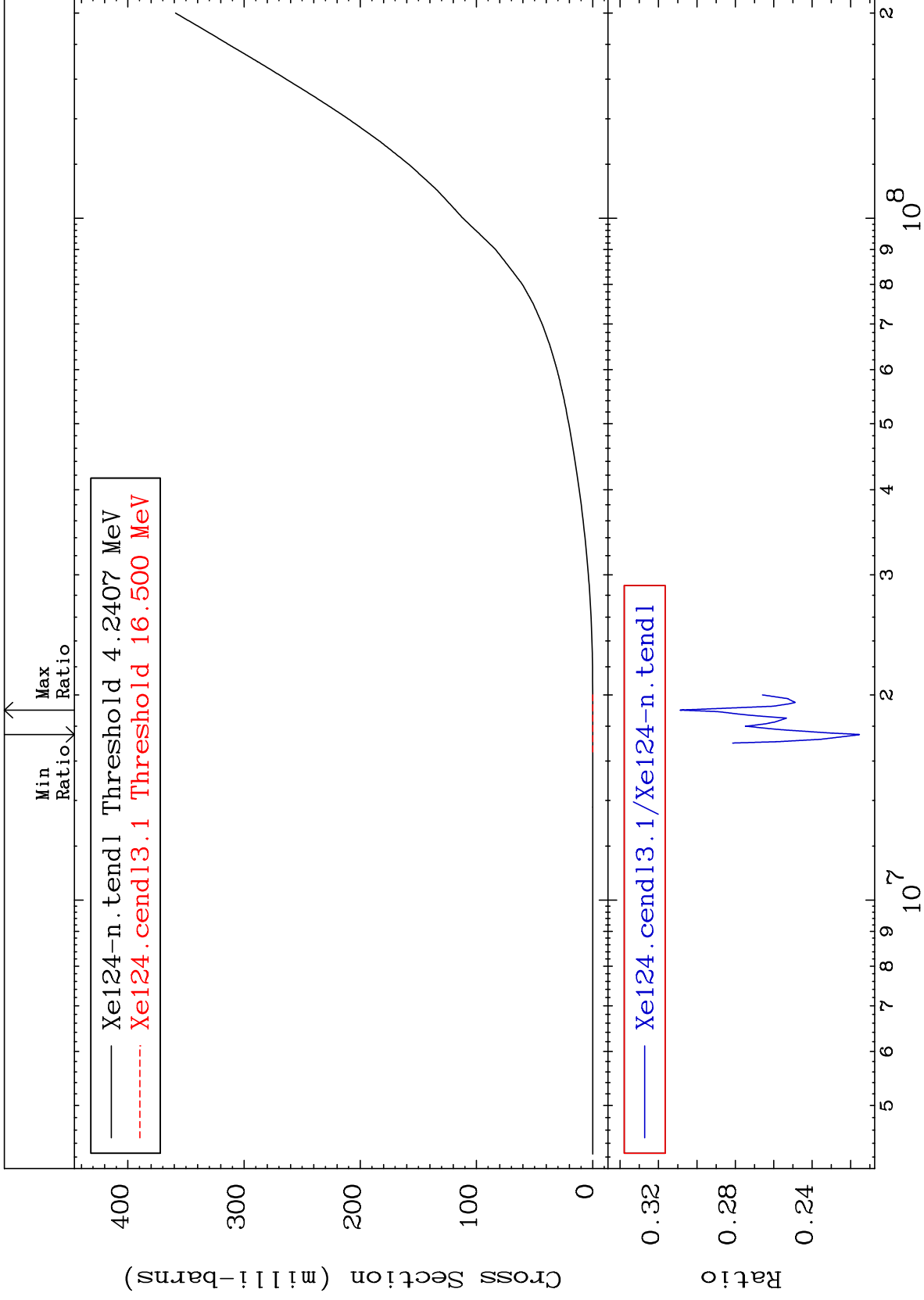
Incident Energy (eV)

54-Xe-124

MAT 5425

He-3 Production
Cross Section

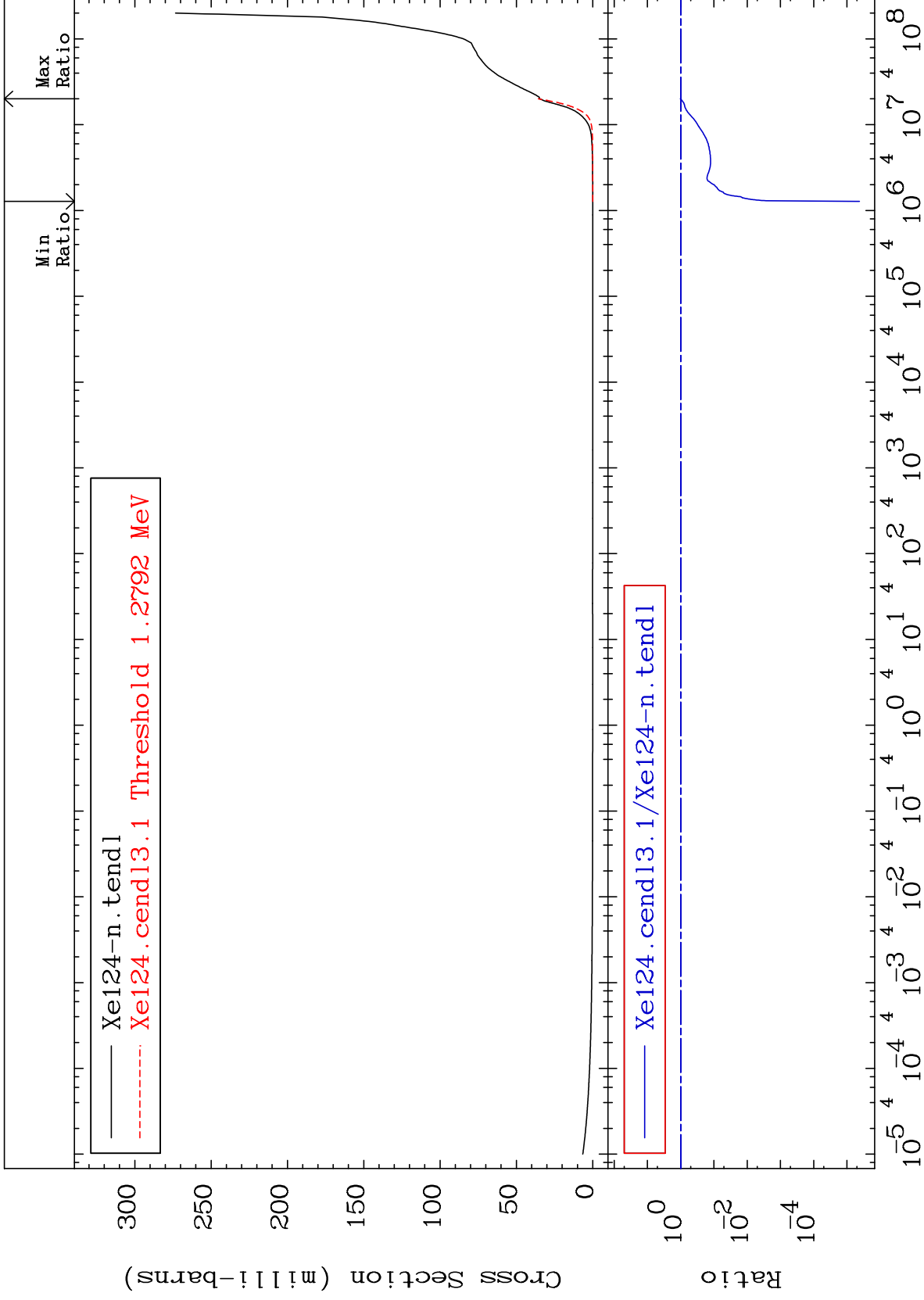
54-Xe-124
-78.46 To -69.14%

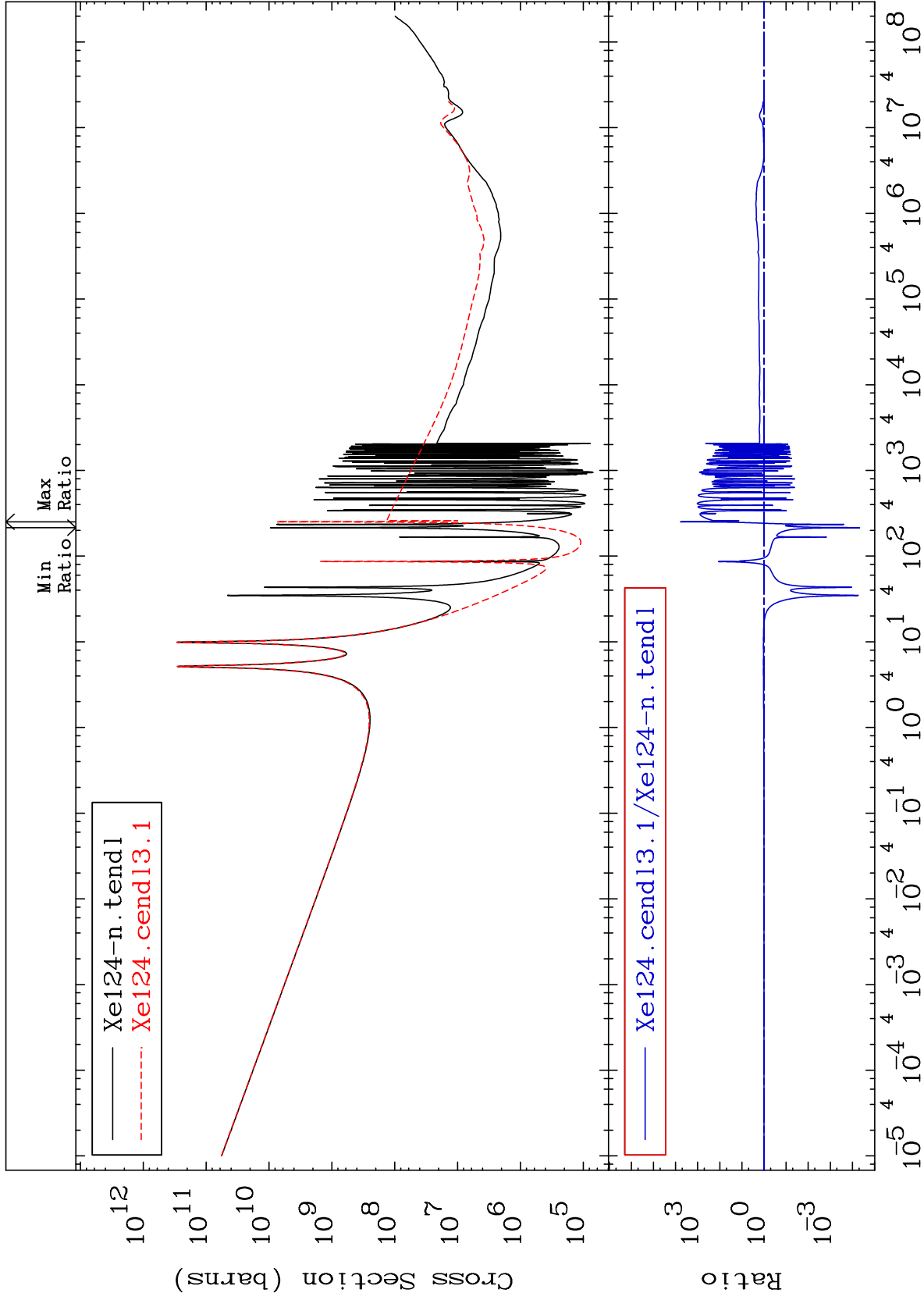


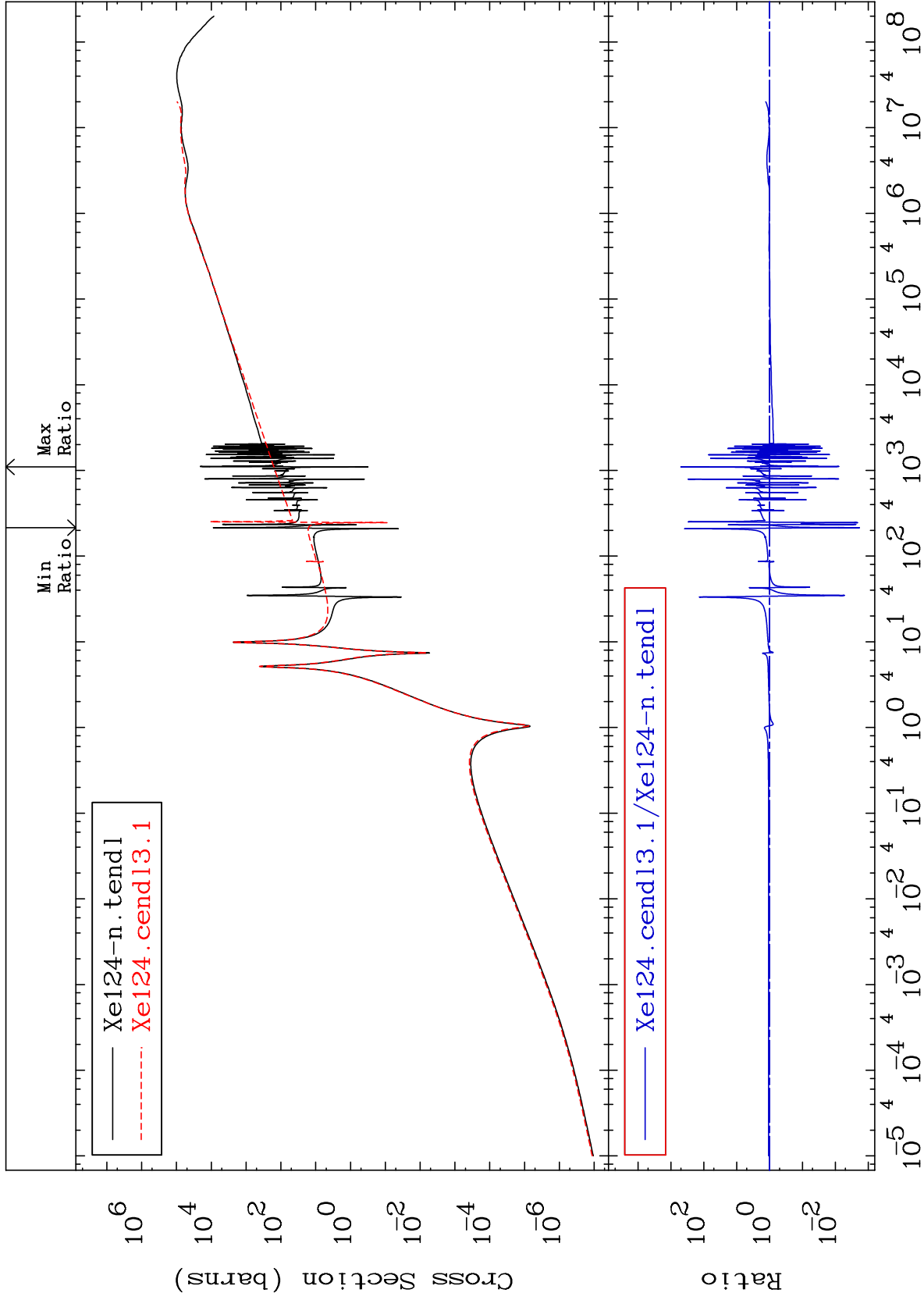
32

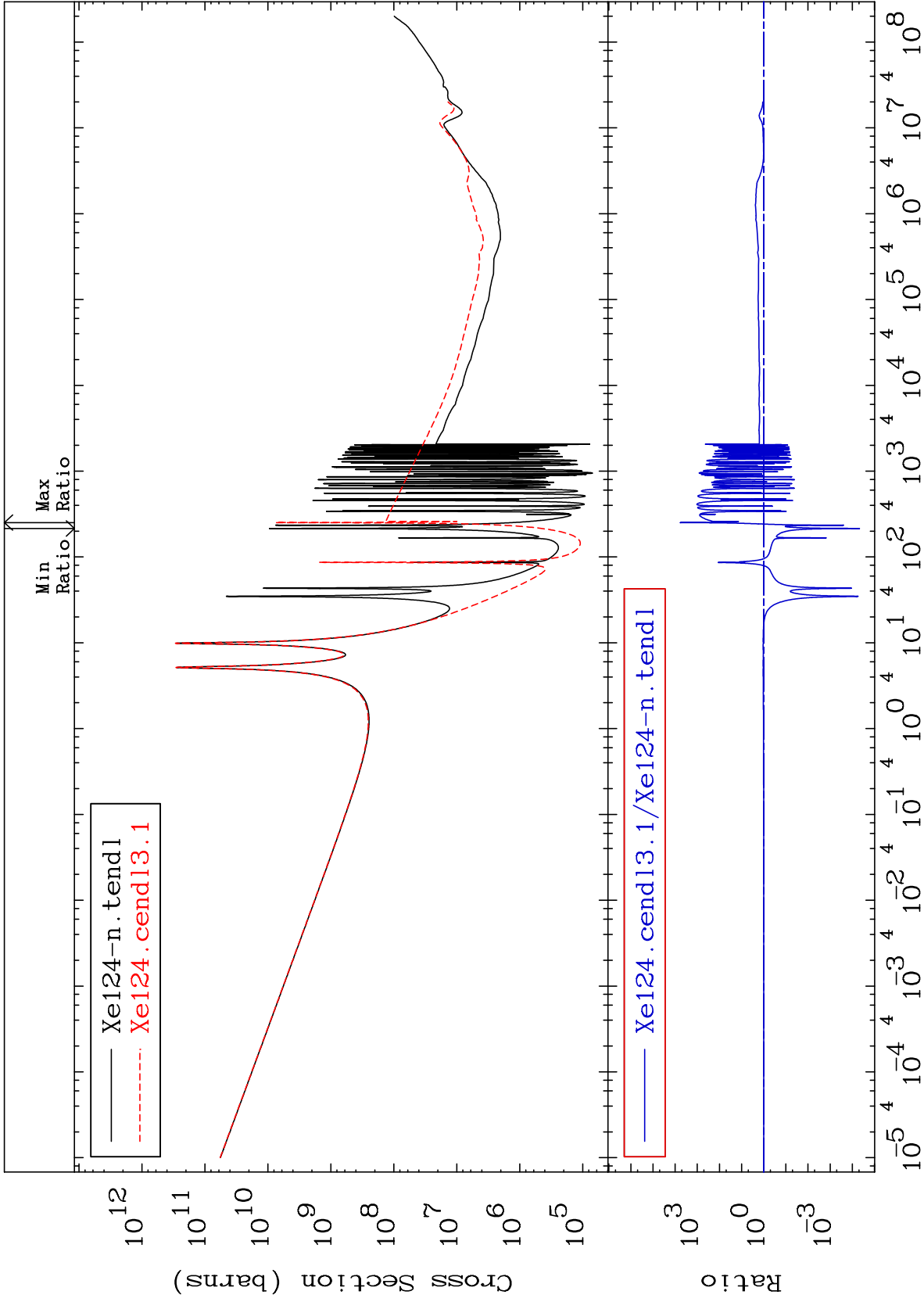
Incident Energy (eV)

54-Xe-124





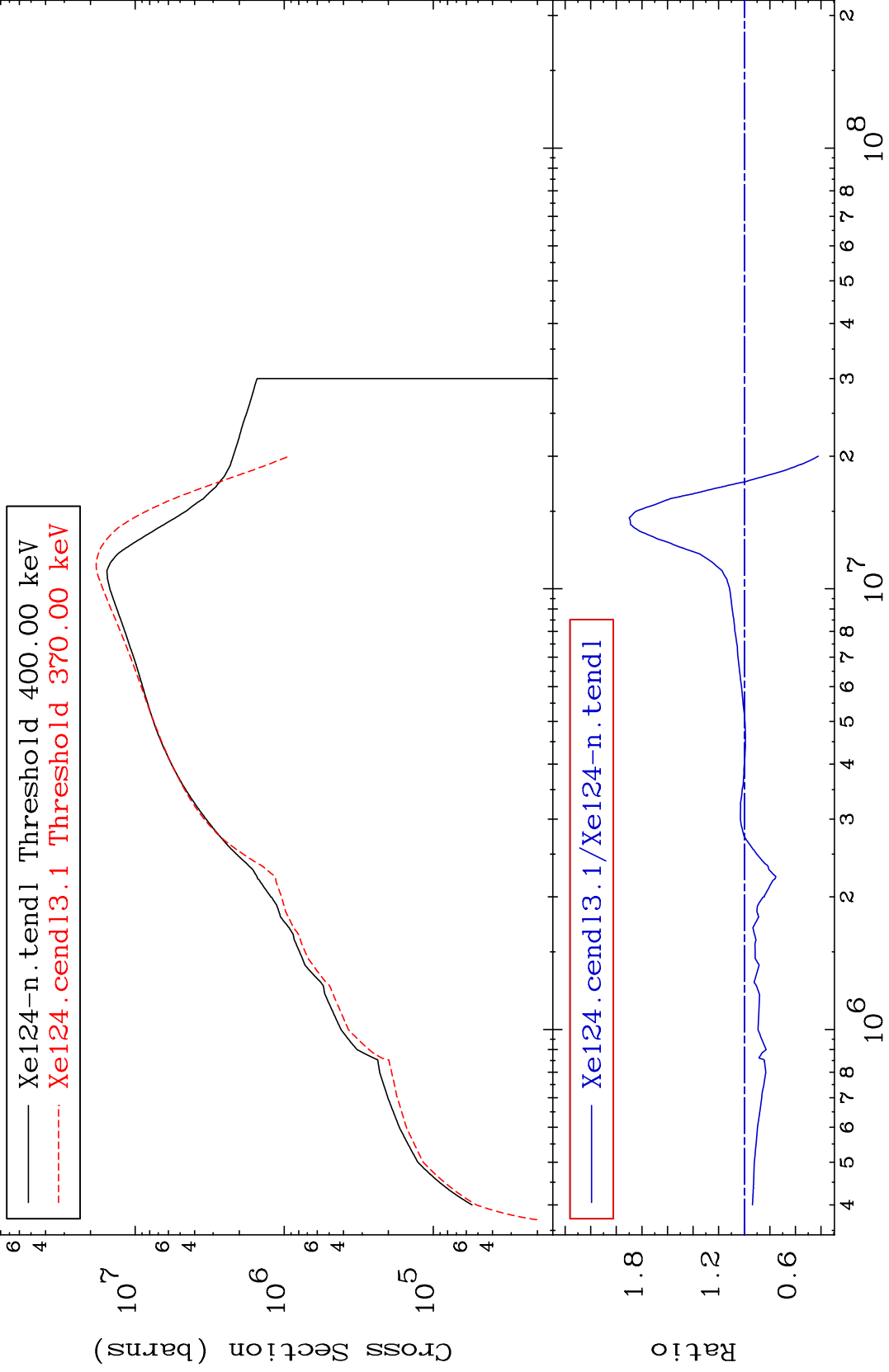




MAT 5425

Kerma inelastic (mt51-91)
Cross Section

54-Xe-124
-57.88 To 89.88 %



37

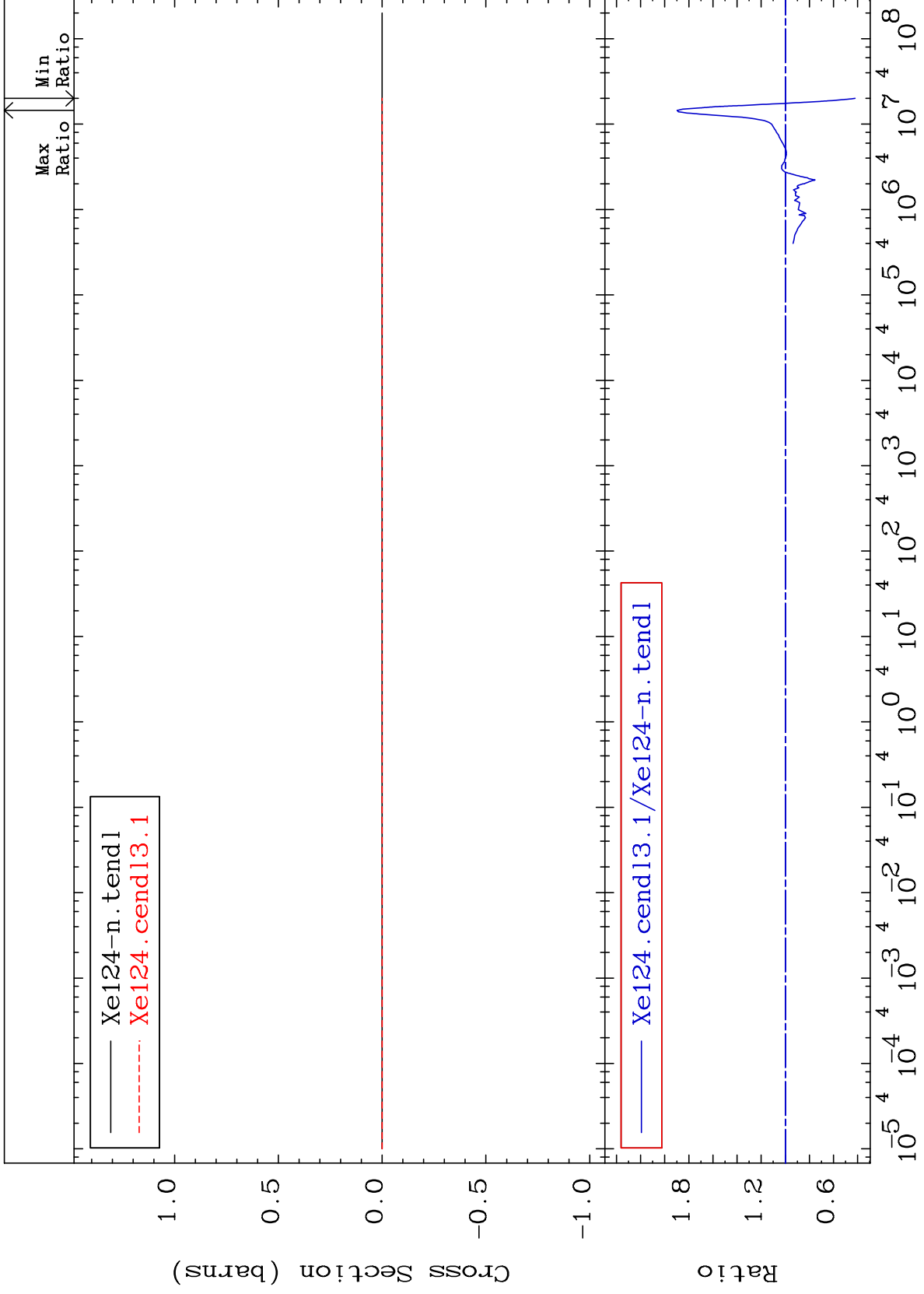
Incident Energy (eV)

54-Xe-124

MAT 5425

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

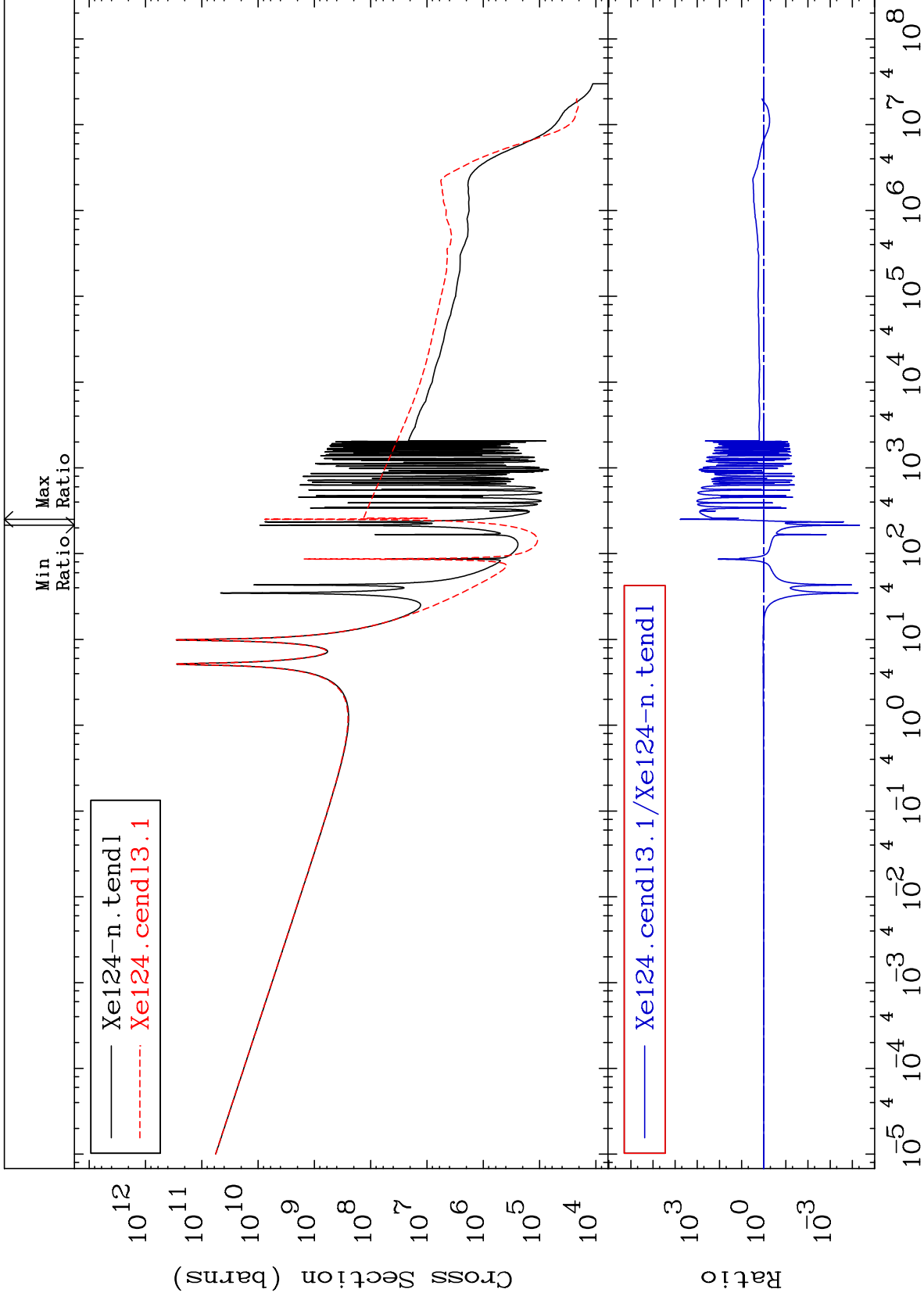
54-Xe-124
-57.88 To 89.88 %



38

Incident Energy (eV)

54-Xe-124

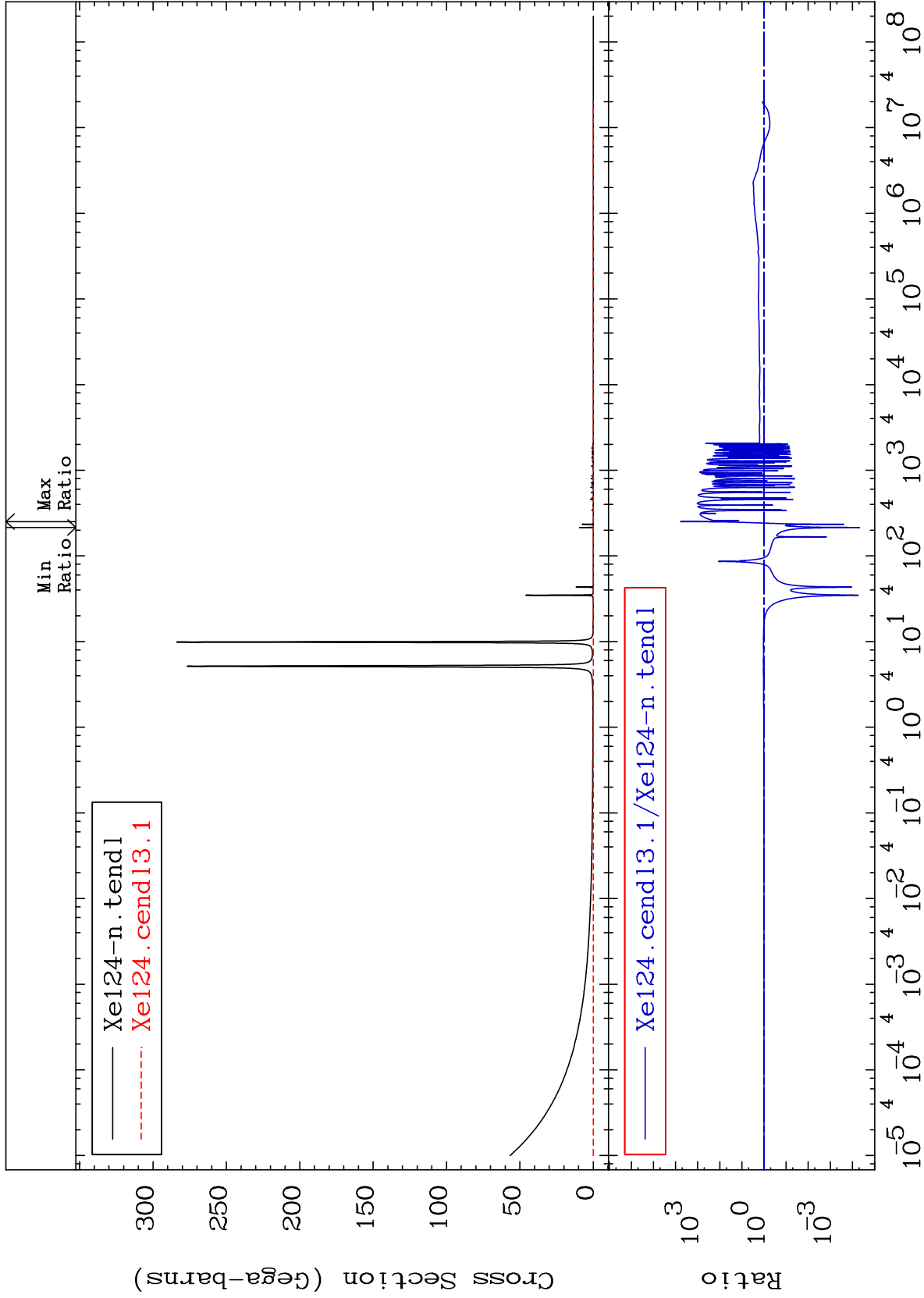


MAT 5425

Total photon (eV-barns)
Cross Section

54-Xe-124

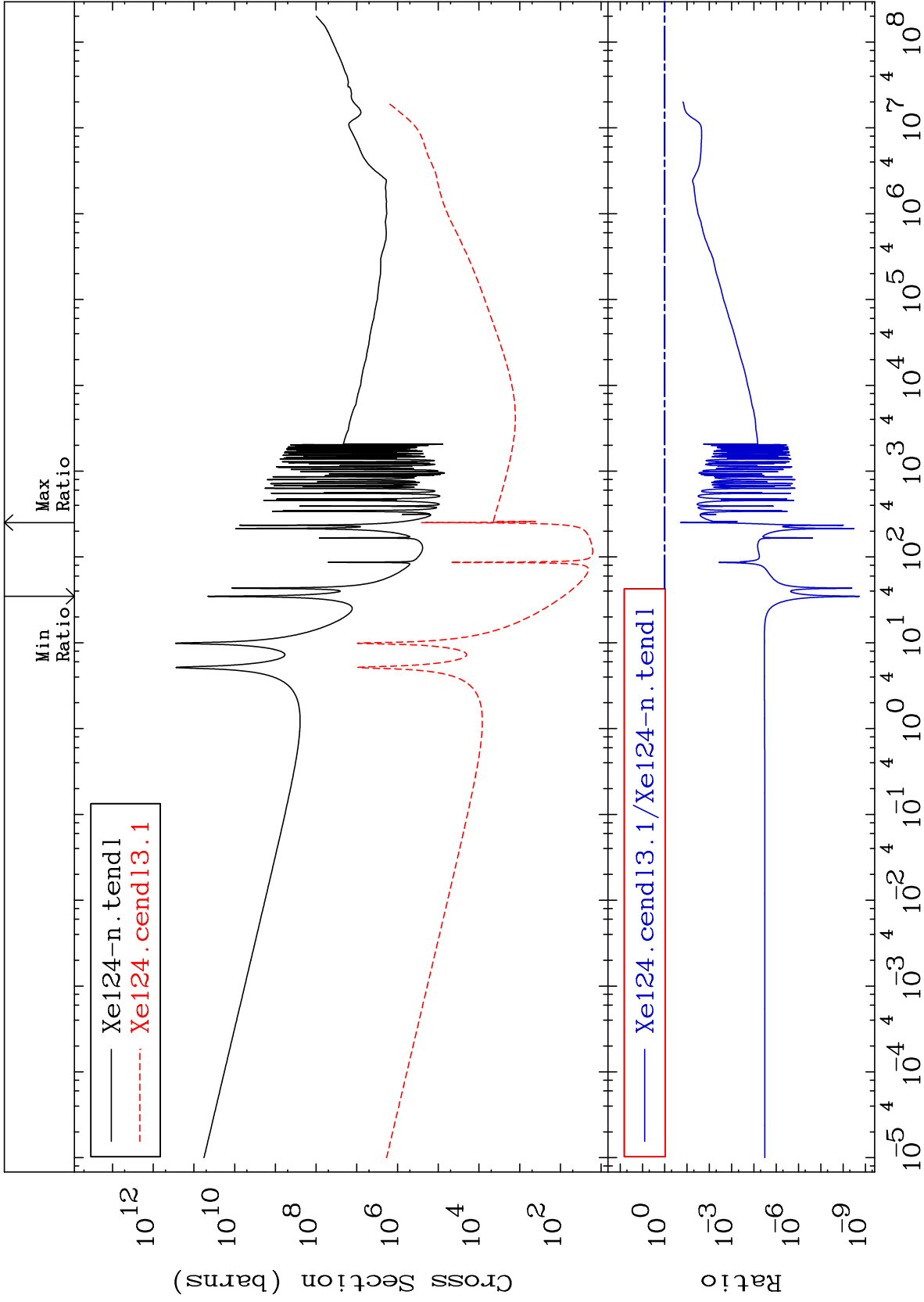
-100.0 To 9999. %

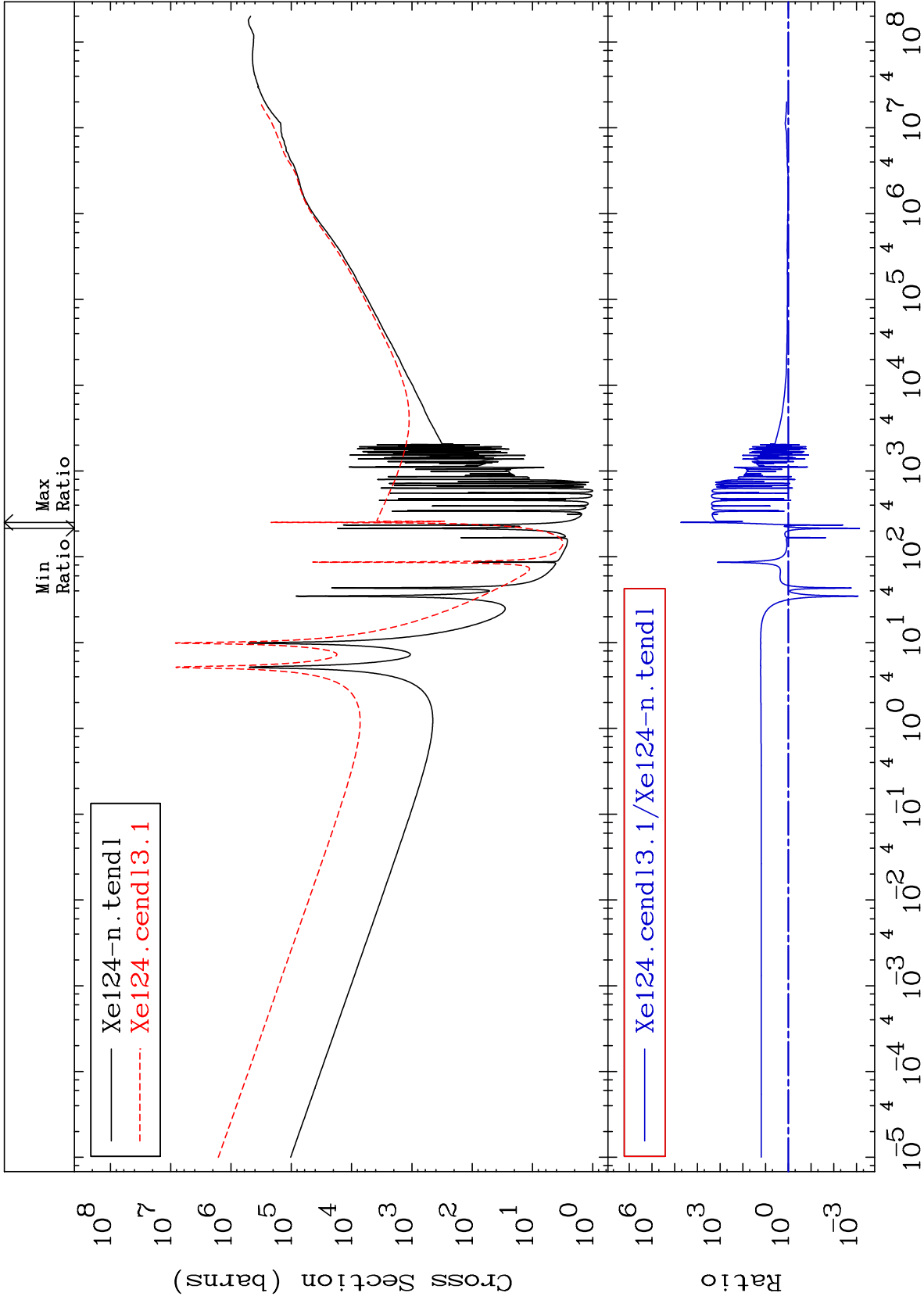


40

Incident Energy (eV)

54-Xe-124

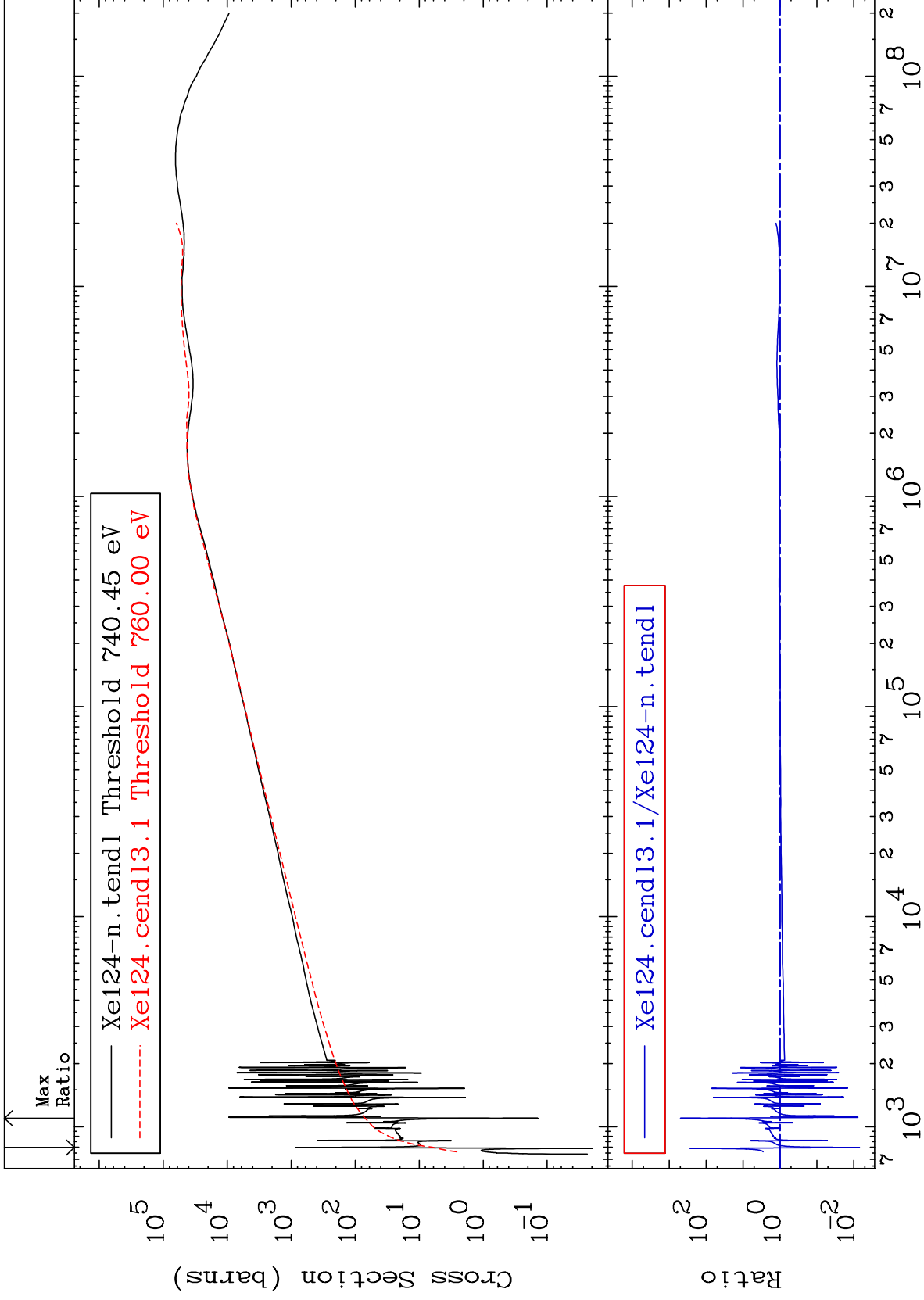




MAT 5425

Dpa elastic (mt2)
Cross Section

54-Xe-124
-99.29 To 9999. %



43

Incident Energy (eV)

54-Xe-124

MAT 5425

Dpa inelastic (mt51-91)
Cross Section

54-Xe-124
-25.13 To 151.1 %

