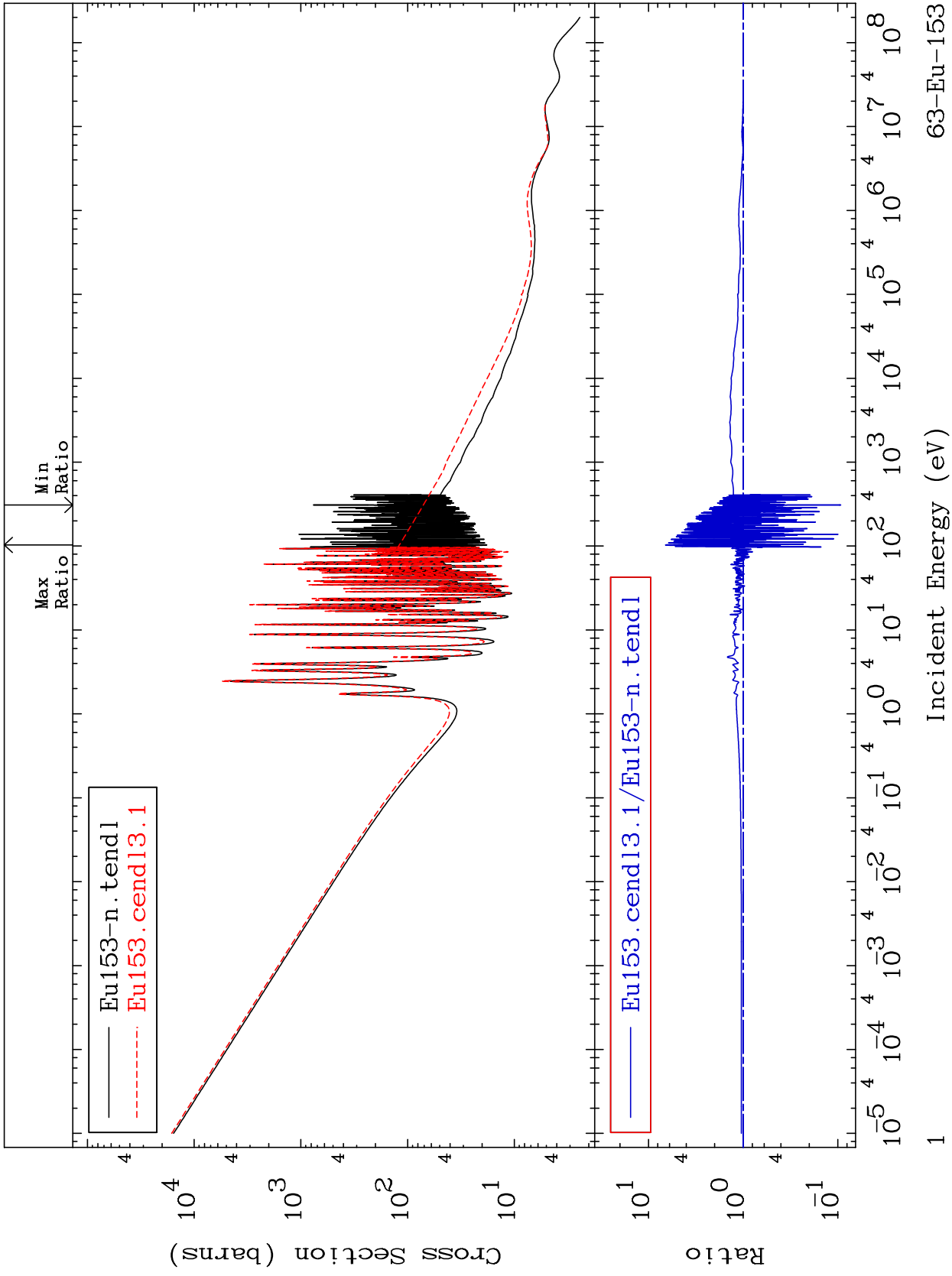


MAT 6331

Total Cross Section  
63-Eu-153  
-90.66 To 561.2 %



63-Eu-153

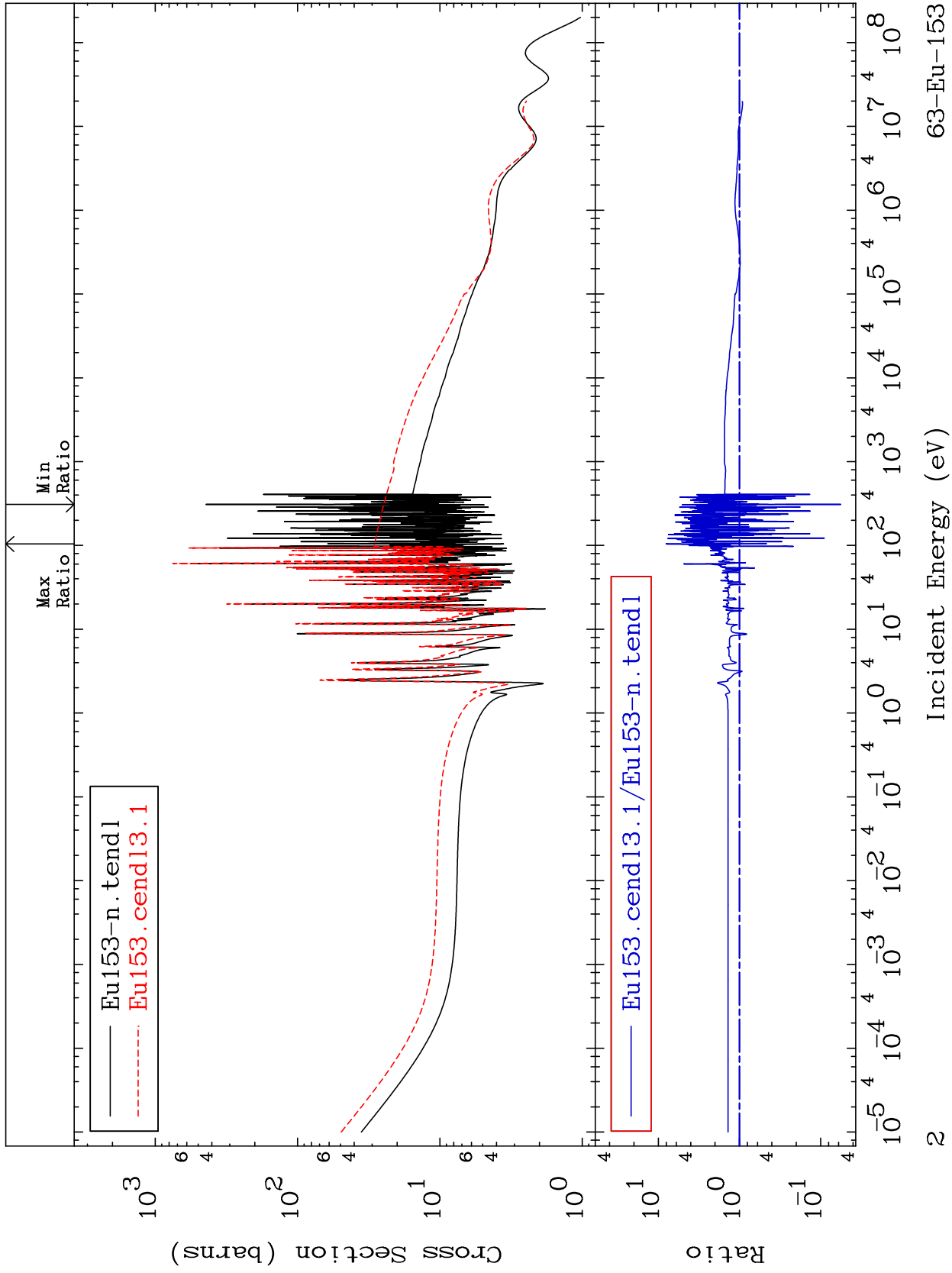
MAT 6331

Elastic

63-Eu-153

Cross Section

-94.36 To 706.2 %

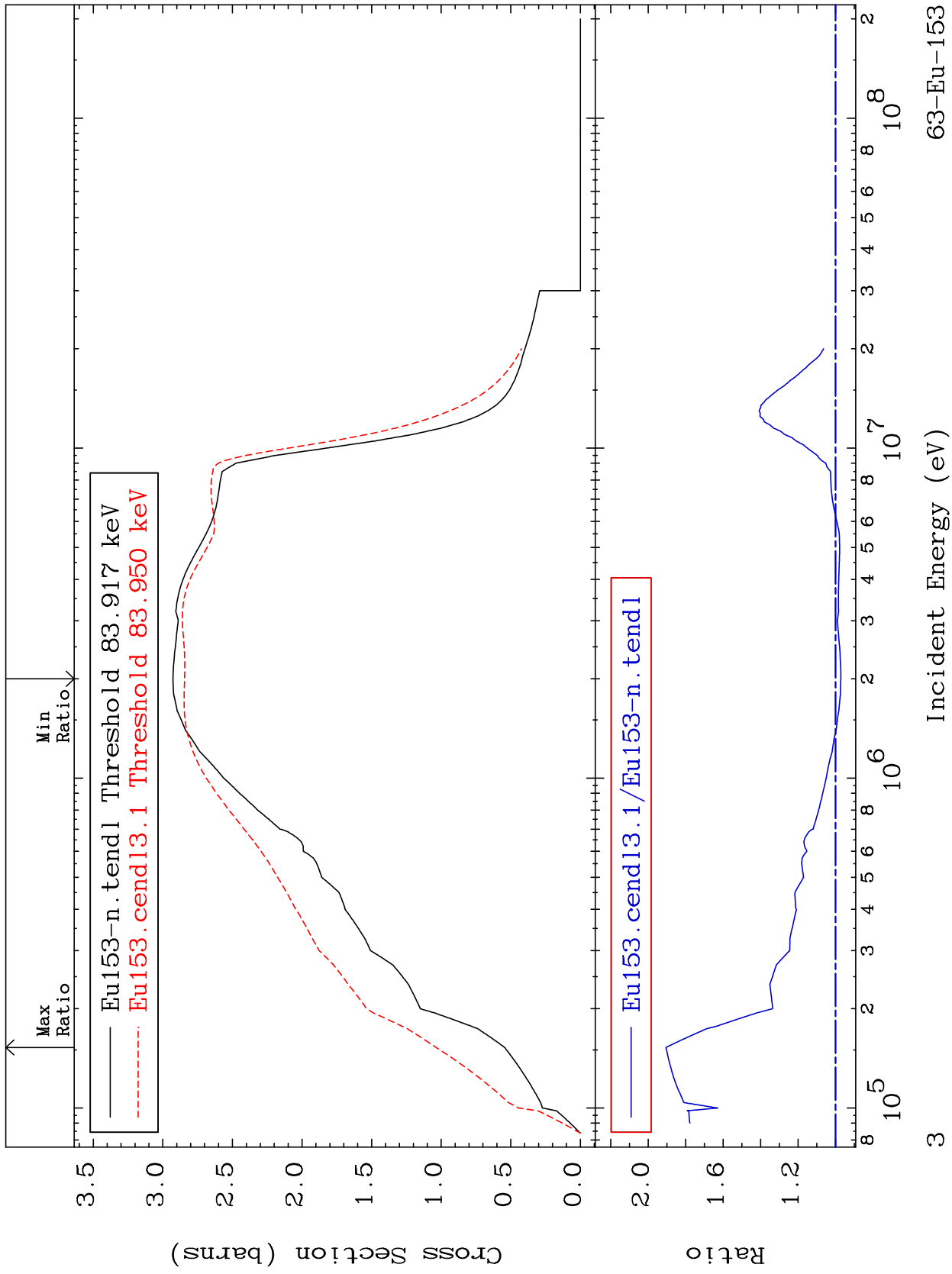


63-Eu-153

Incident Energy (eV)

2

MAT 6331 Inelastic Cross Section 63-Eu-153 -2.872 To 90.55 %



63-Eu-153

Incident Energy (eV)

3

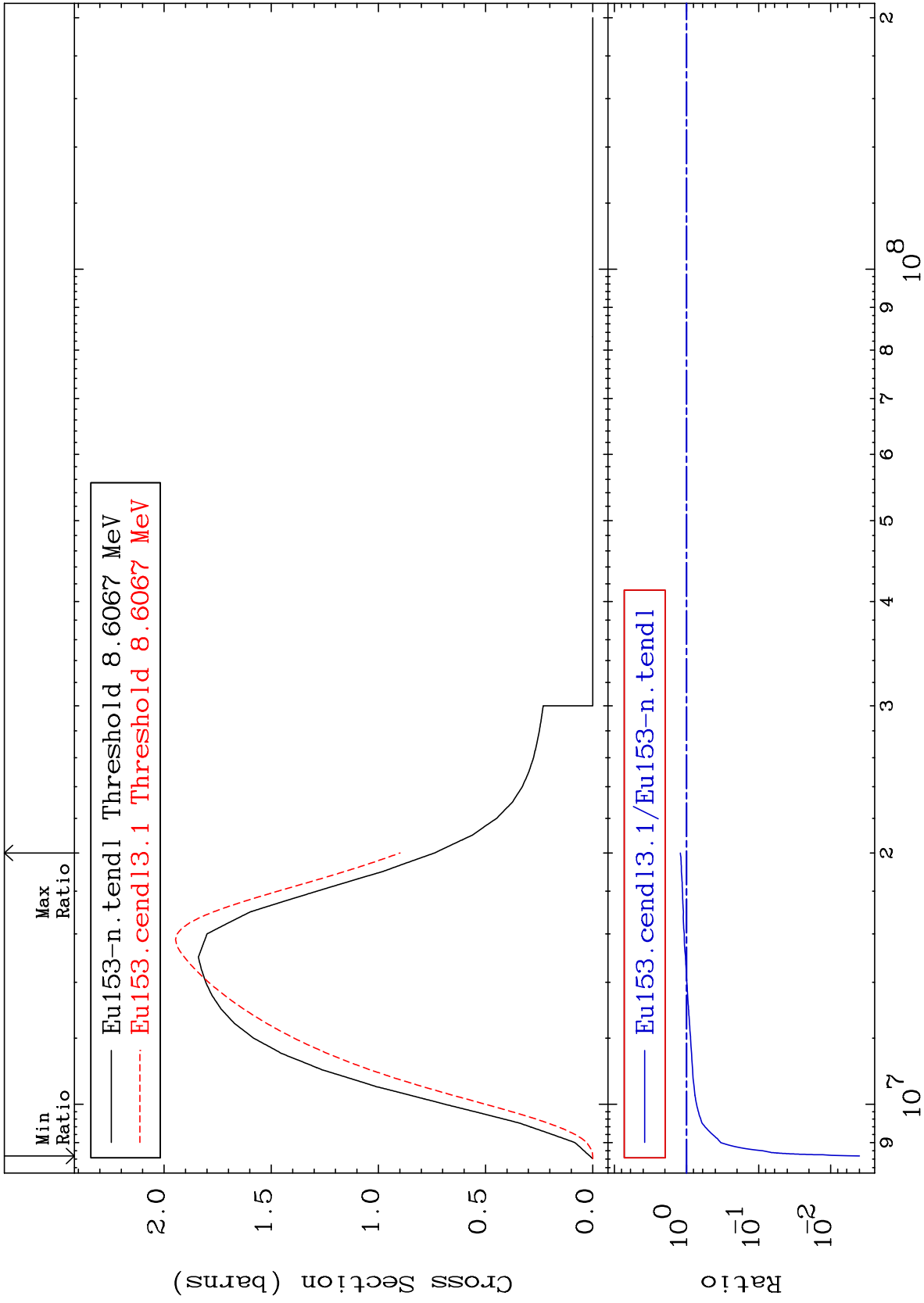
MAT 6331

(n,2n)

63-Eu-153

Cross Section

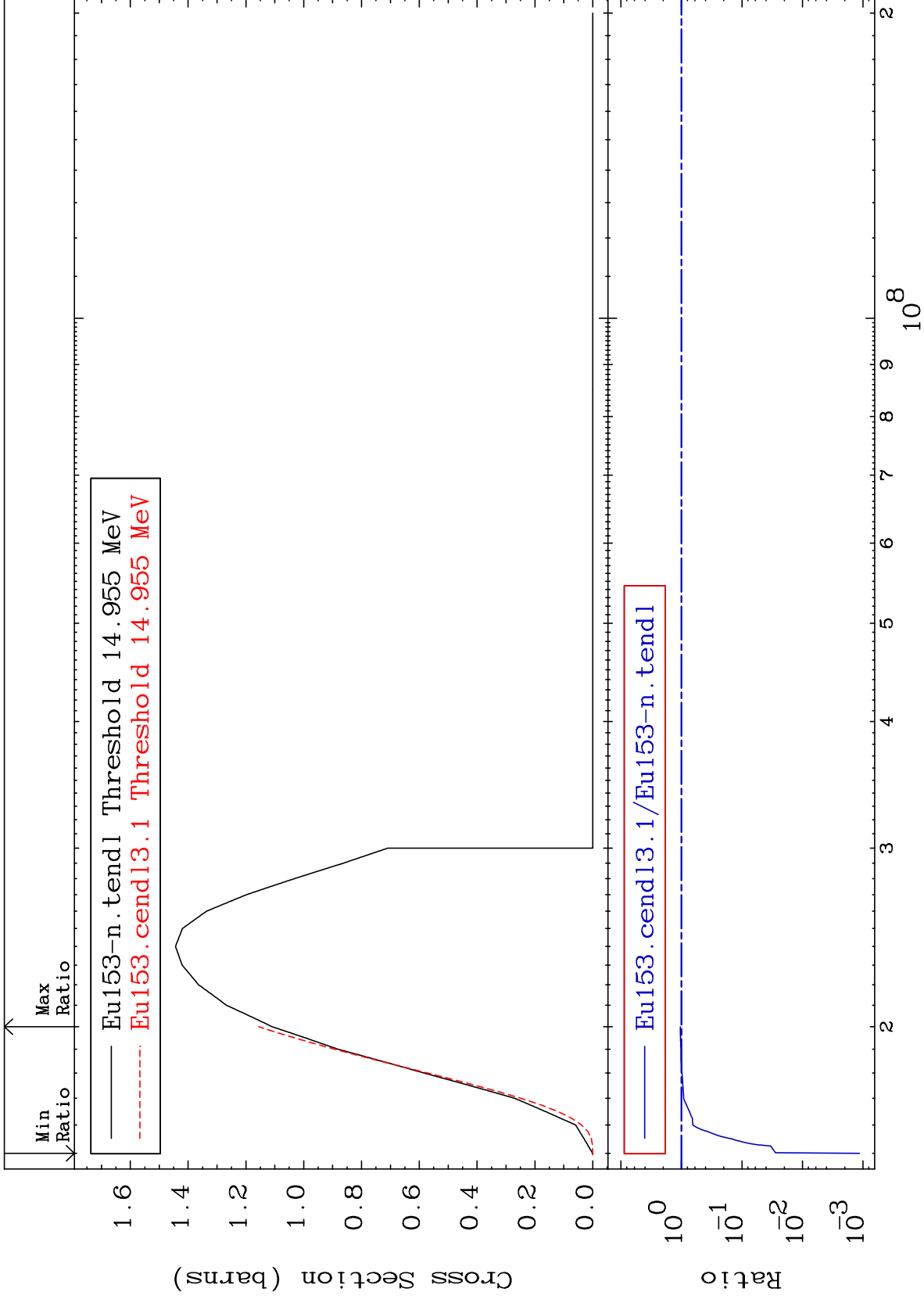
-99.60 To 21.96 %



4

Incident Energy (eV)

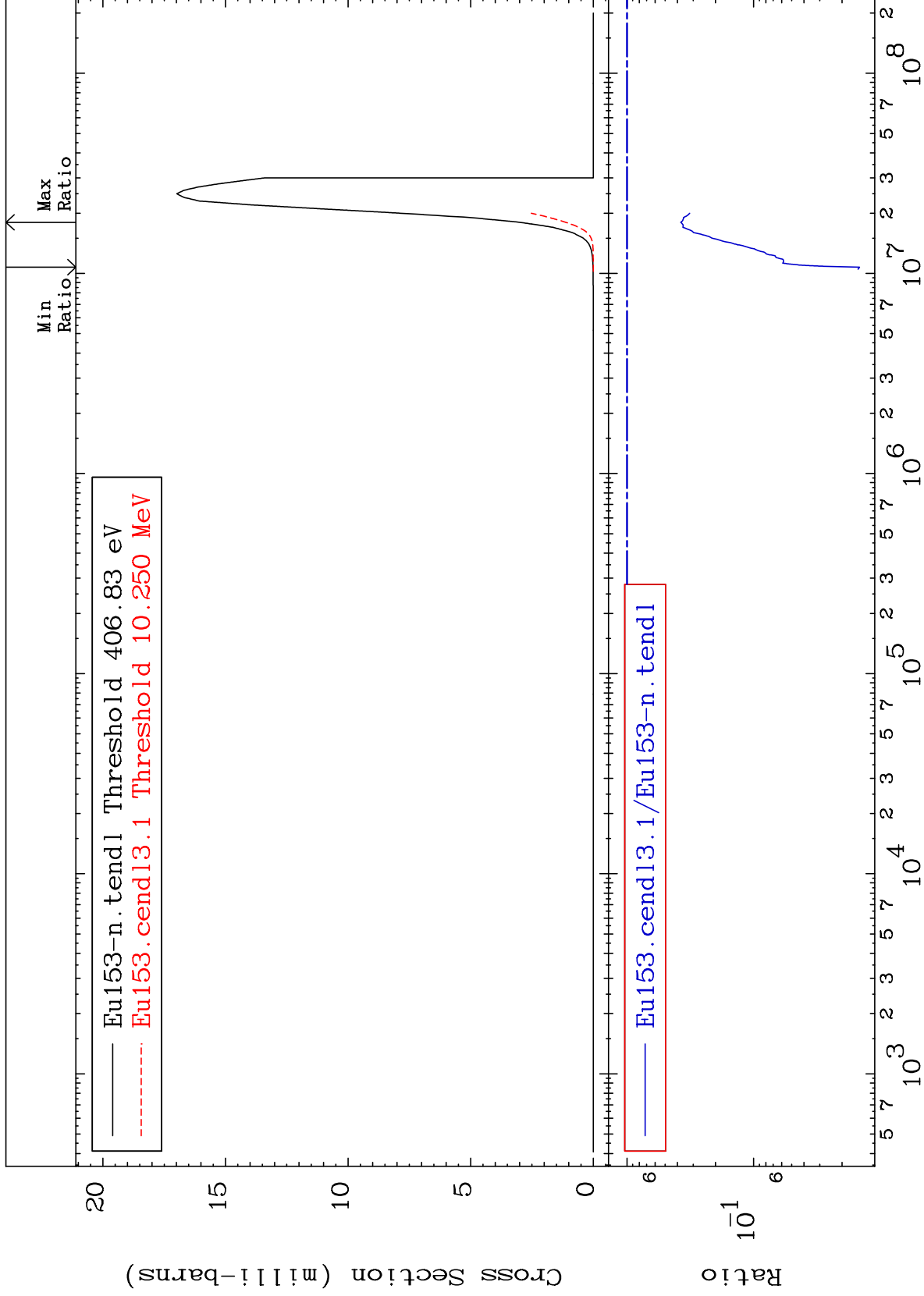
63-Eu-153



MAT 6331

$(n, n') \alpha$   
Cross Section

63-Eu-153  
-98.54 To -62.43%



6

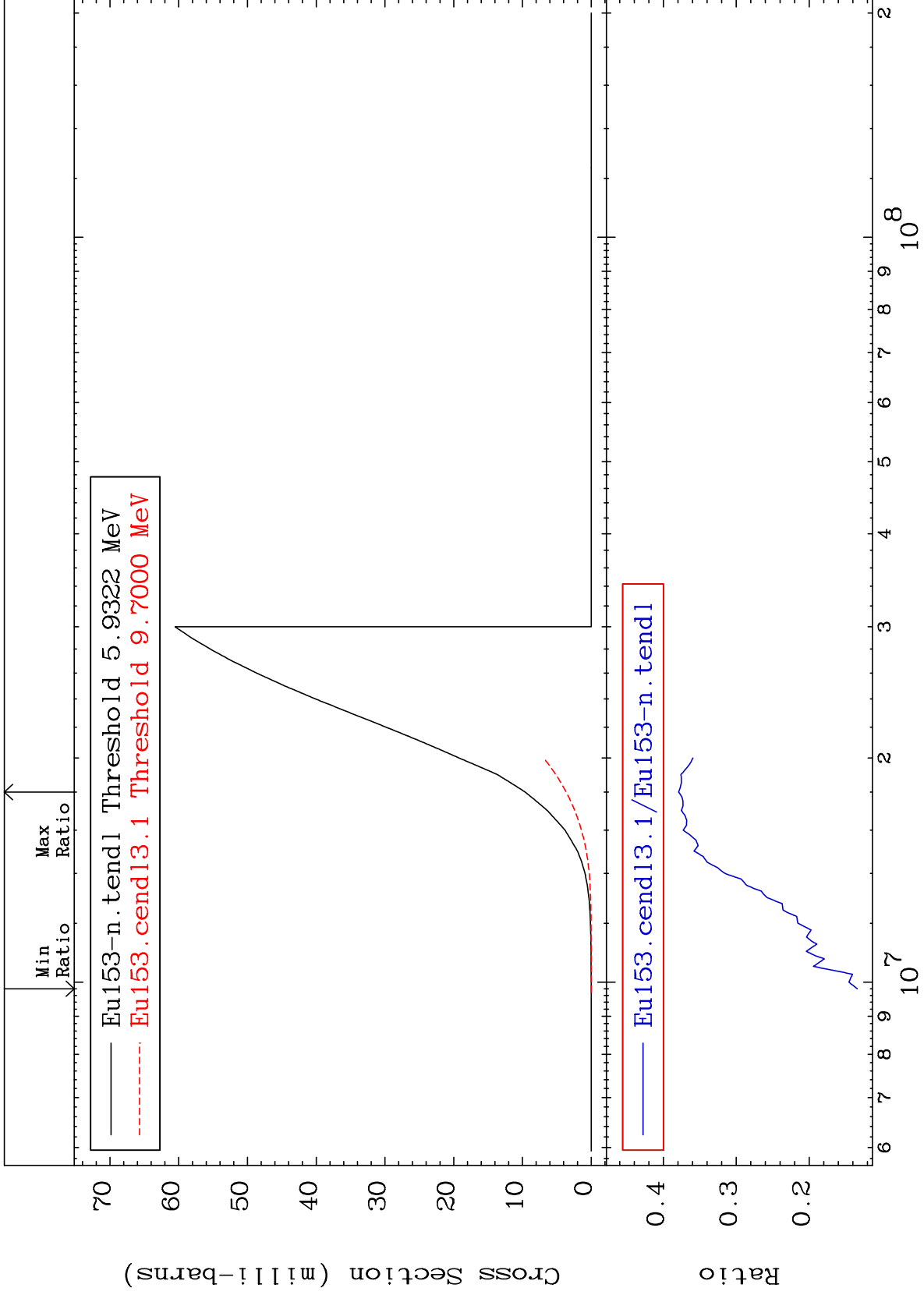
Incident Energy (eV)

63-Eu-153

MAT 6331

(n, n') p  
Cross Section

63-Eu-153  
-86.60 To -62.09%



7

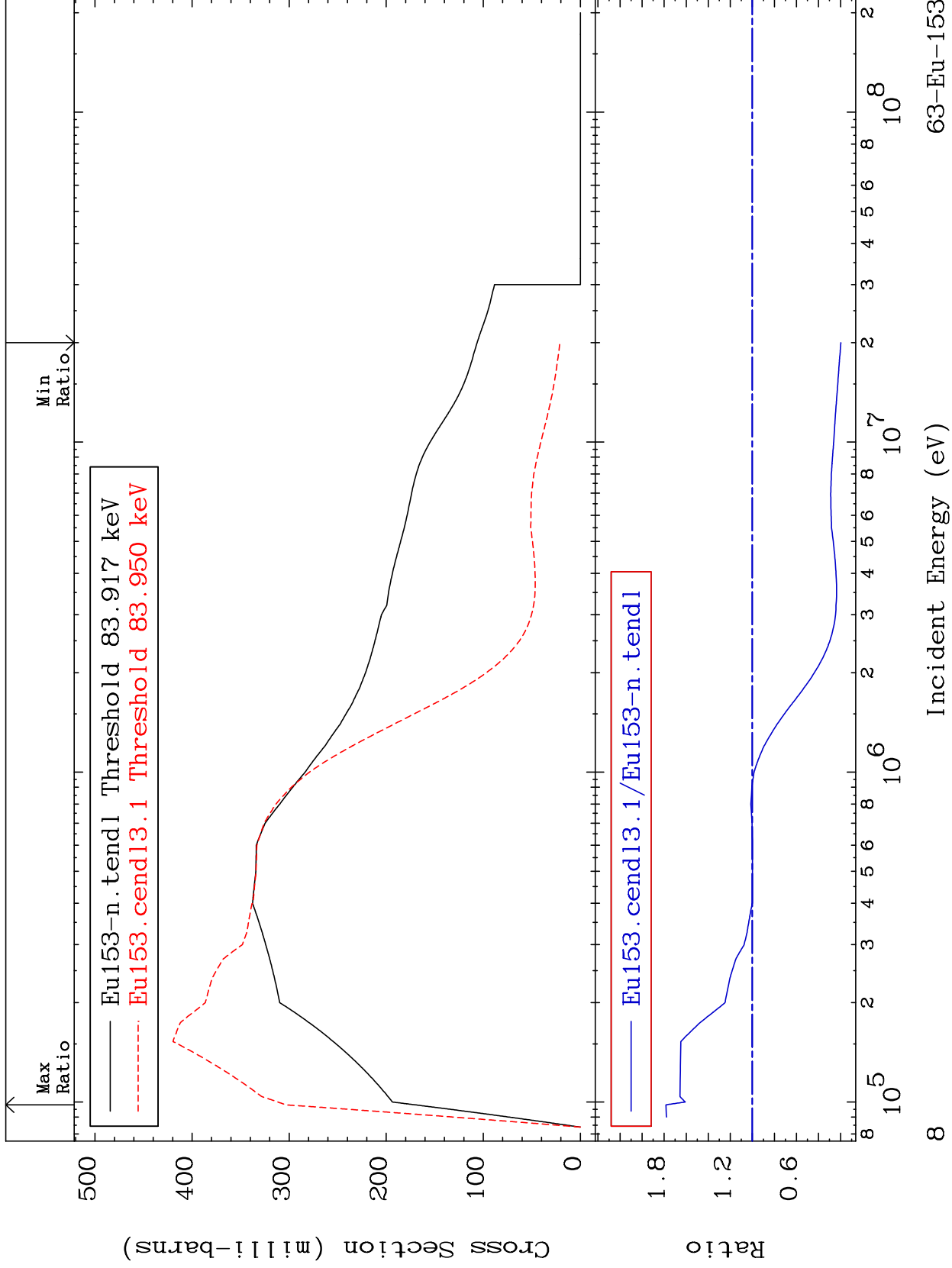
Incident Energy (eV)

63-Eu-153

MAT 6331

83.37 keV (n,n') Level  
Cross Section

63-Eu-153  
-80.26 To 78.34 %

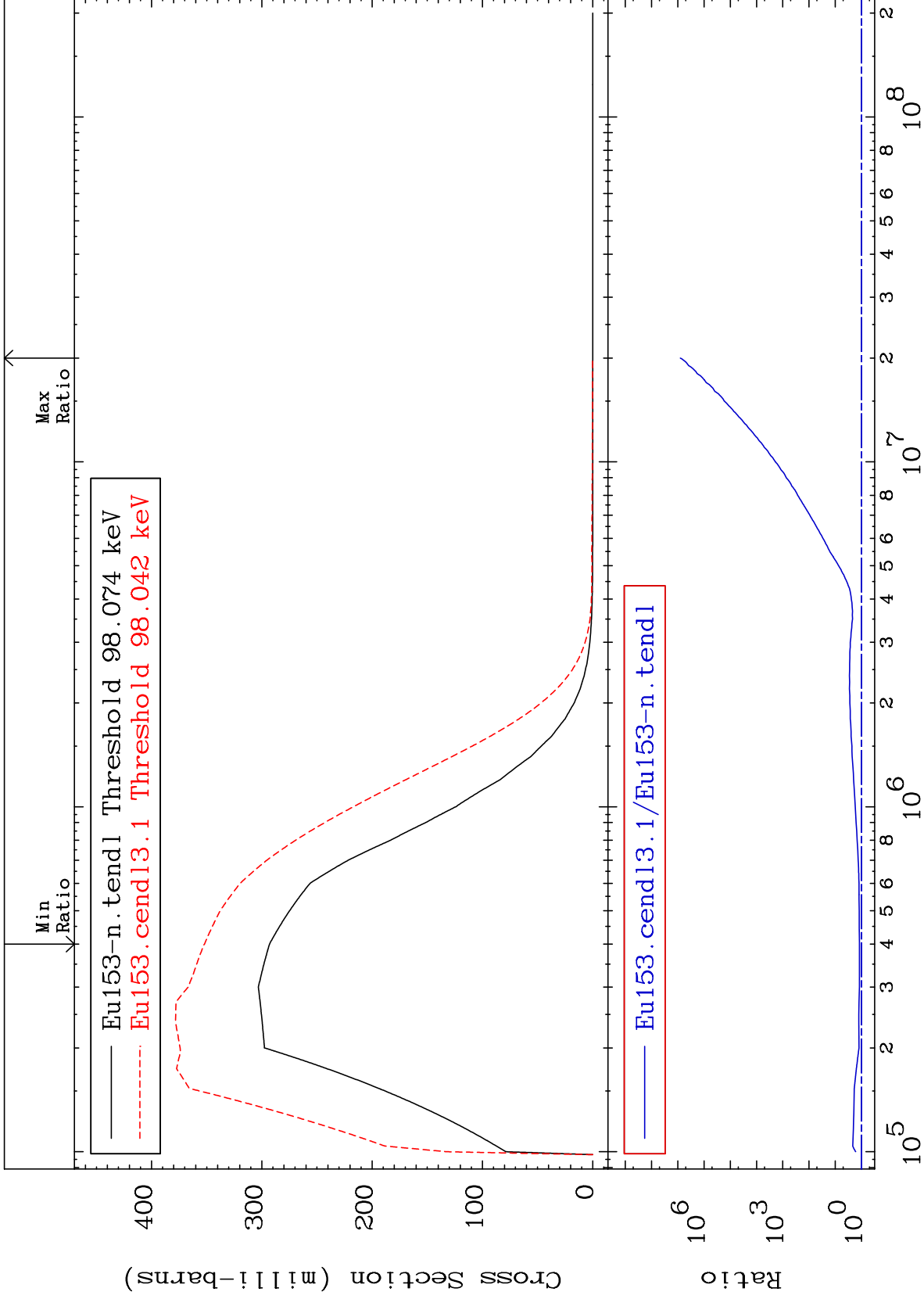




MAT 6331

97.43 keV (n,n') Level  
Cross Section

63-Eu-153  
20.11 To 9999. %



9

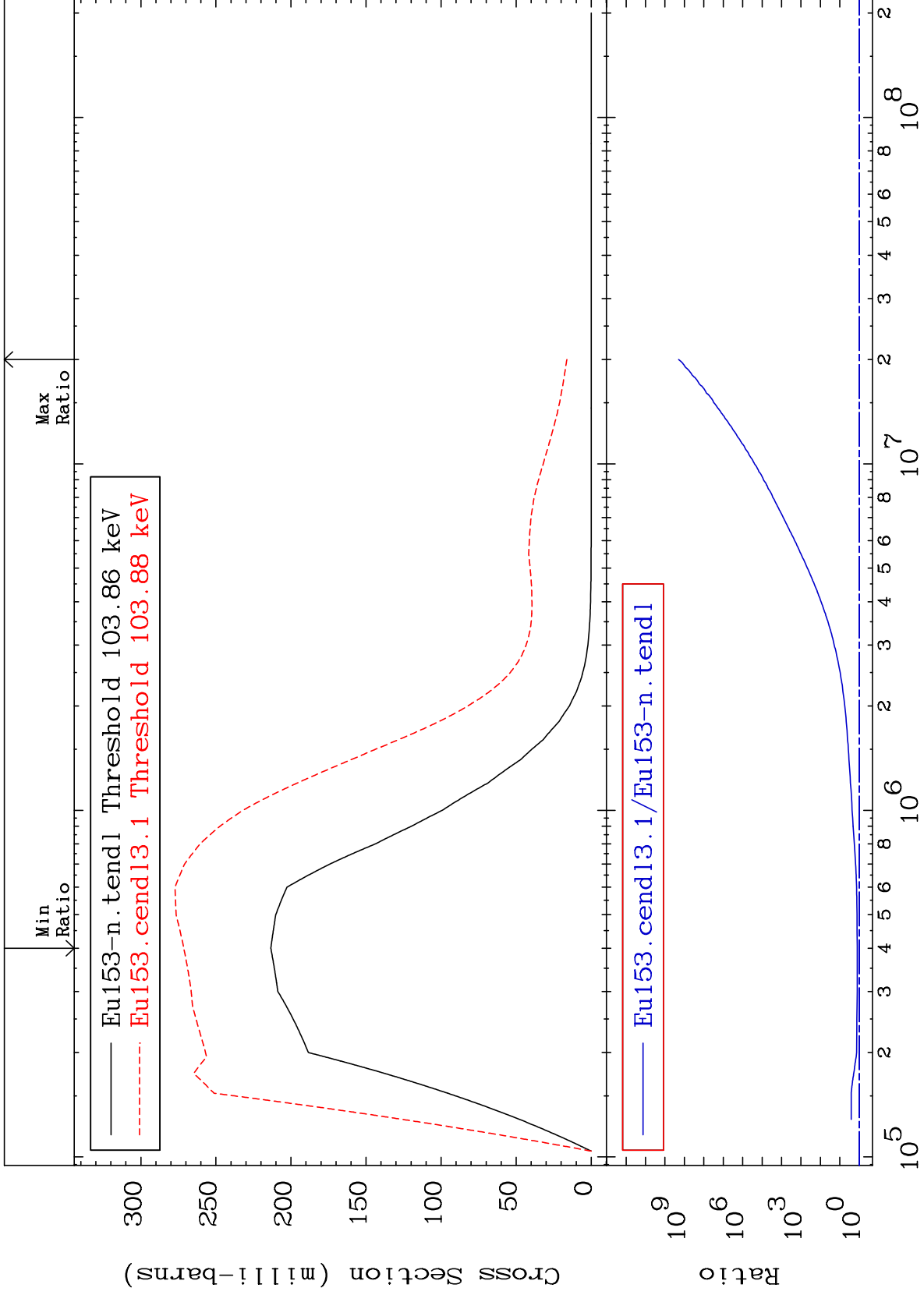
Incident Energy (eV)

63-Eu-153

MAT 6331

103.2 keV (n,n') Level  
Cross Section

63-Eu-153  
27.15 To 9999. %

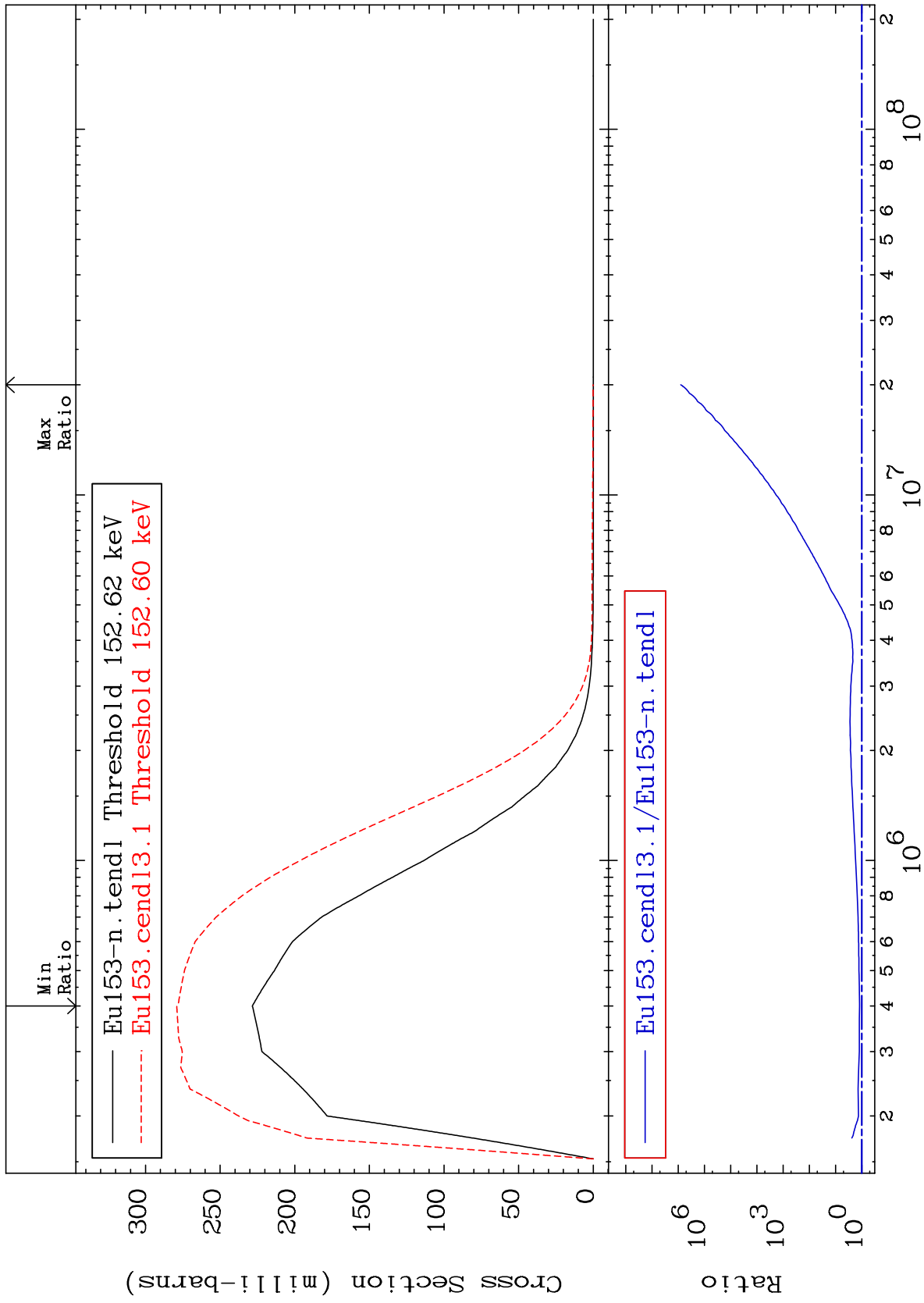


63-Eu-153

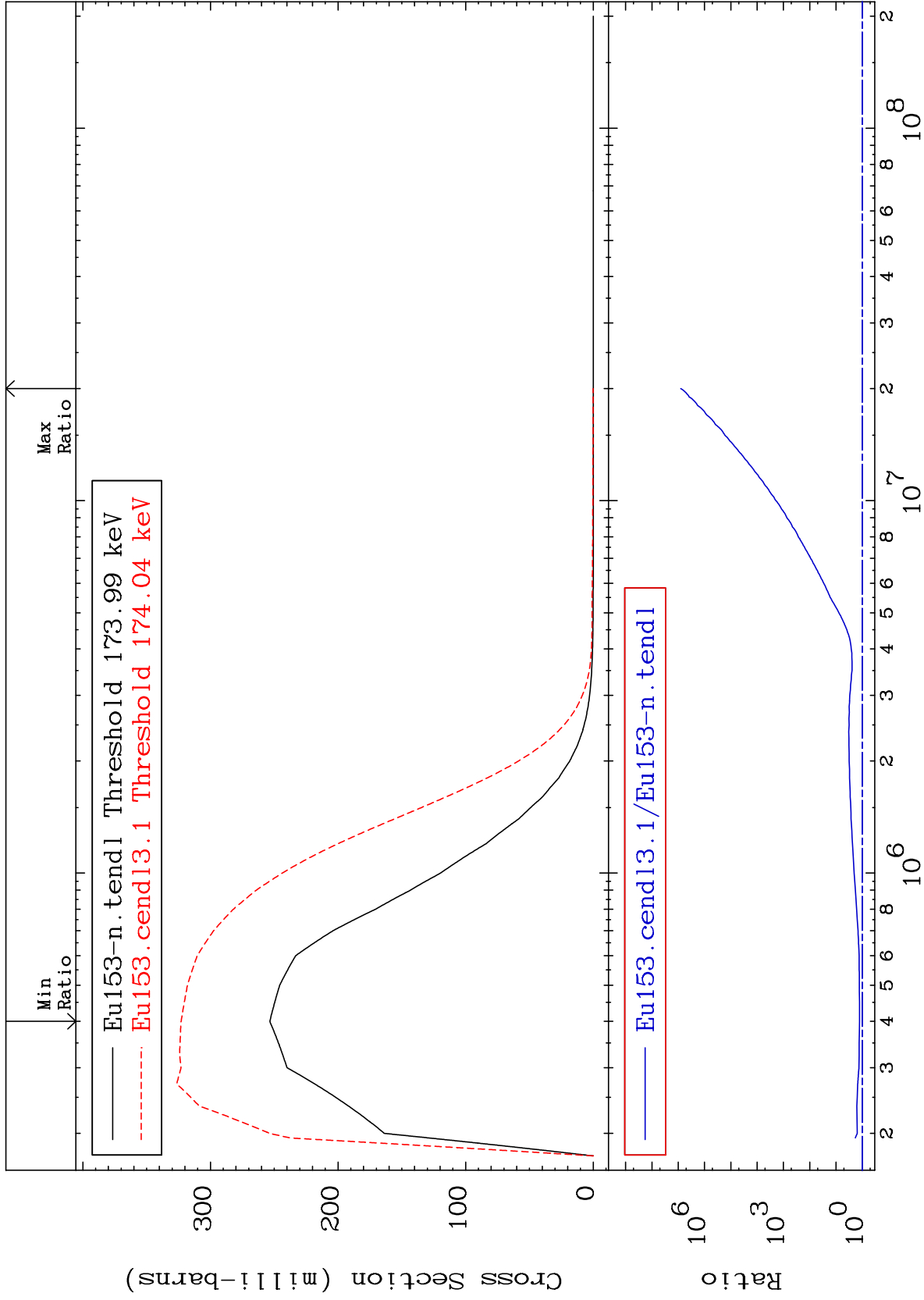
Incident Energy (eV)

10

MAT 6331 151.6 keV (n,n') Level 63-Eu-153  
 Cross Section 21.82 To 9999. %

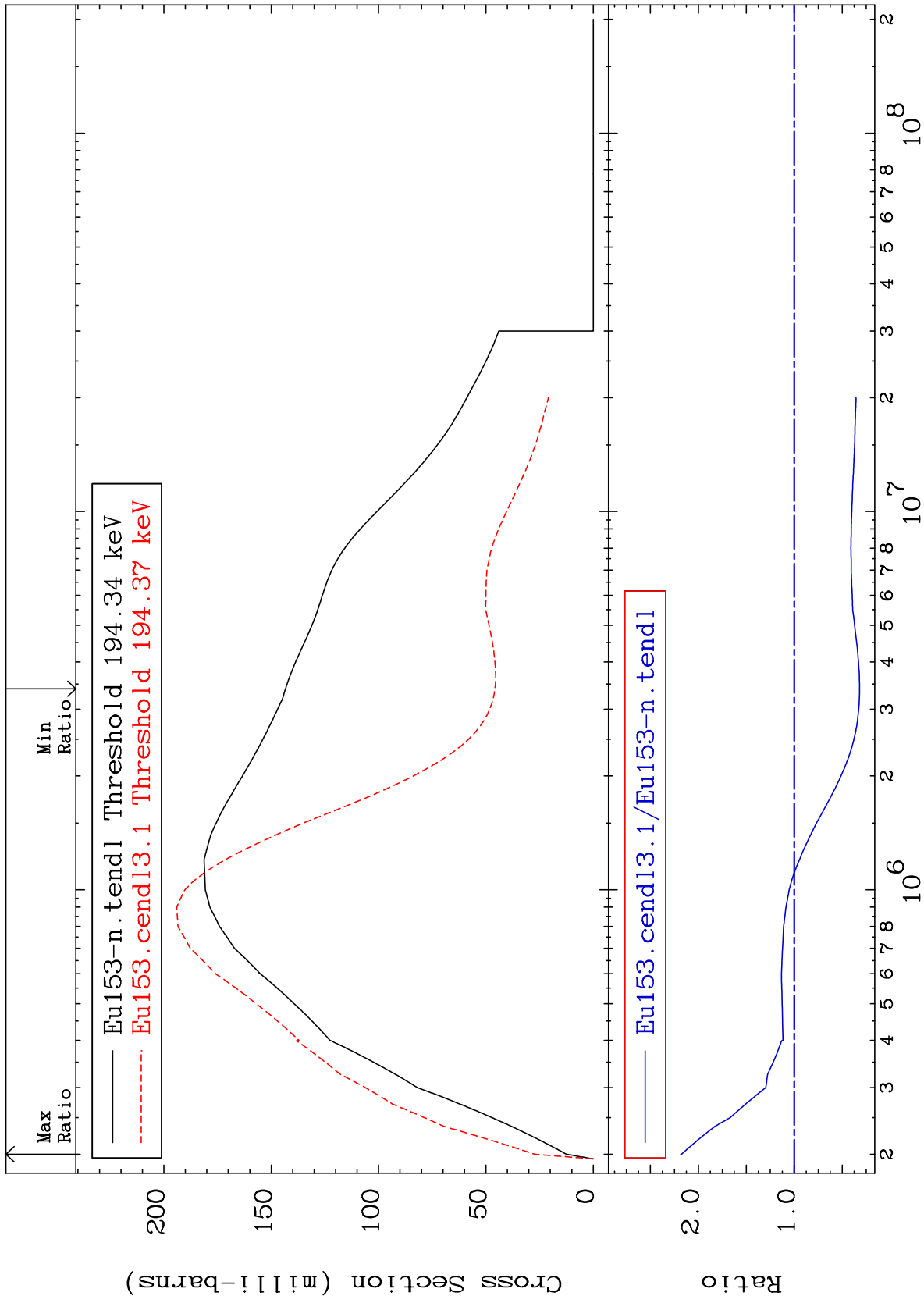


MAT 6331 172.9 keV (n,n') Level 63-Eu-153  
 Cross Section 27.40 To 9999. %



12 Incident Energy (eV) 63-Eu-153

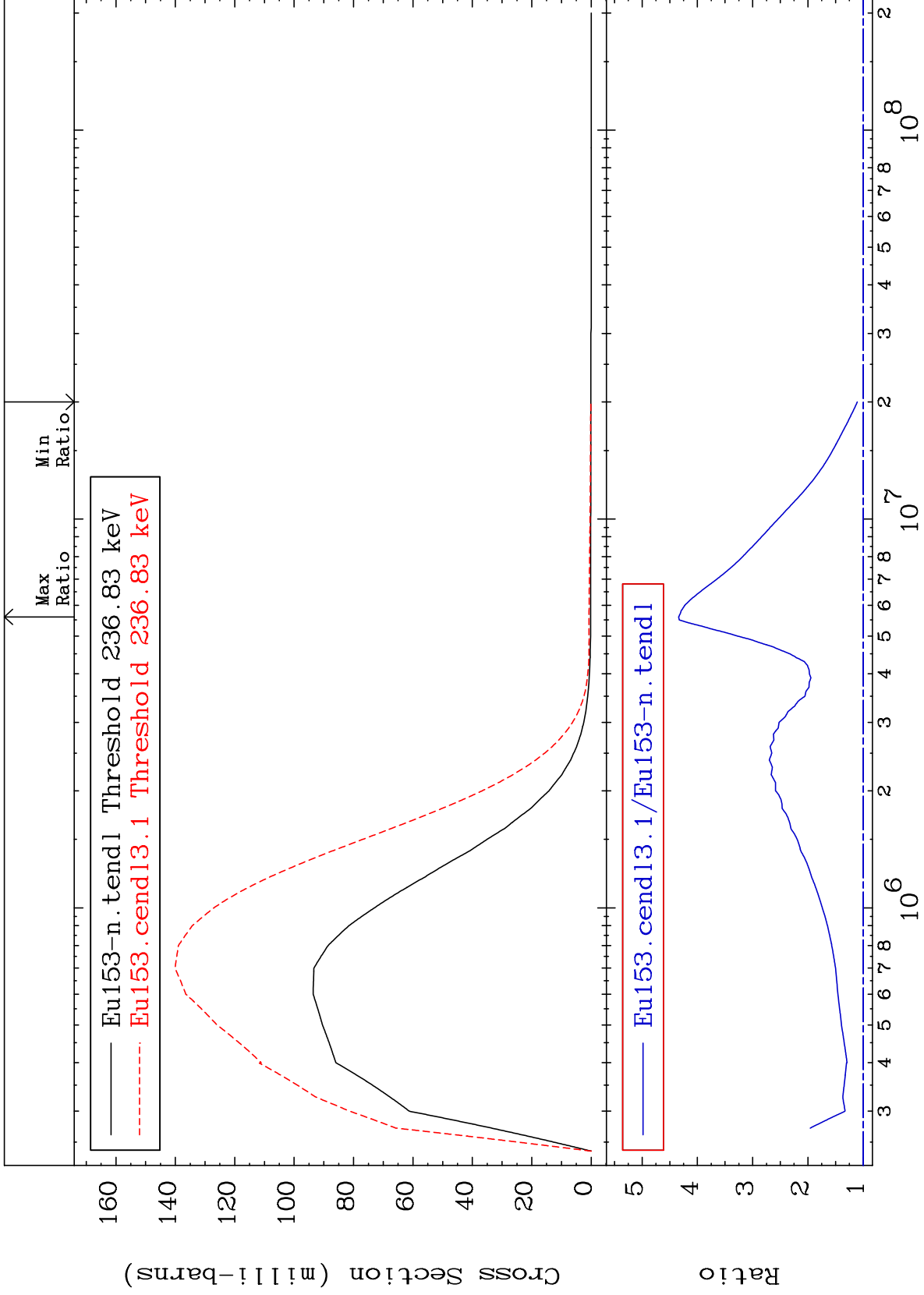
MAT 6331 193.1 keV (n,n') Level 63-Eu-153  
 Cross Section -68.07 To 118.3 %



MAT 6331

235.3 keV (n,n') Level  
Cross Section

63-Eu-153  
10.74 To 333.9 %



14

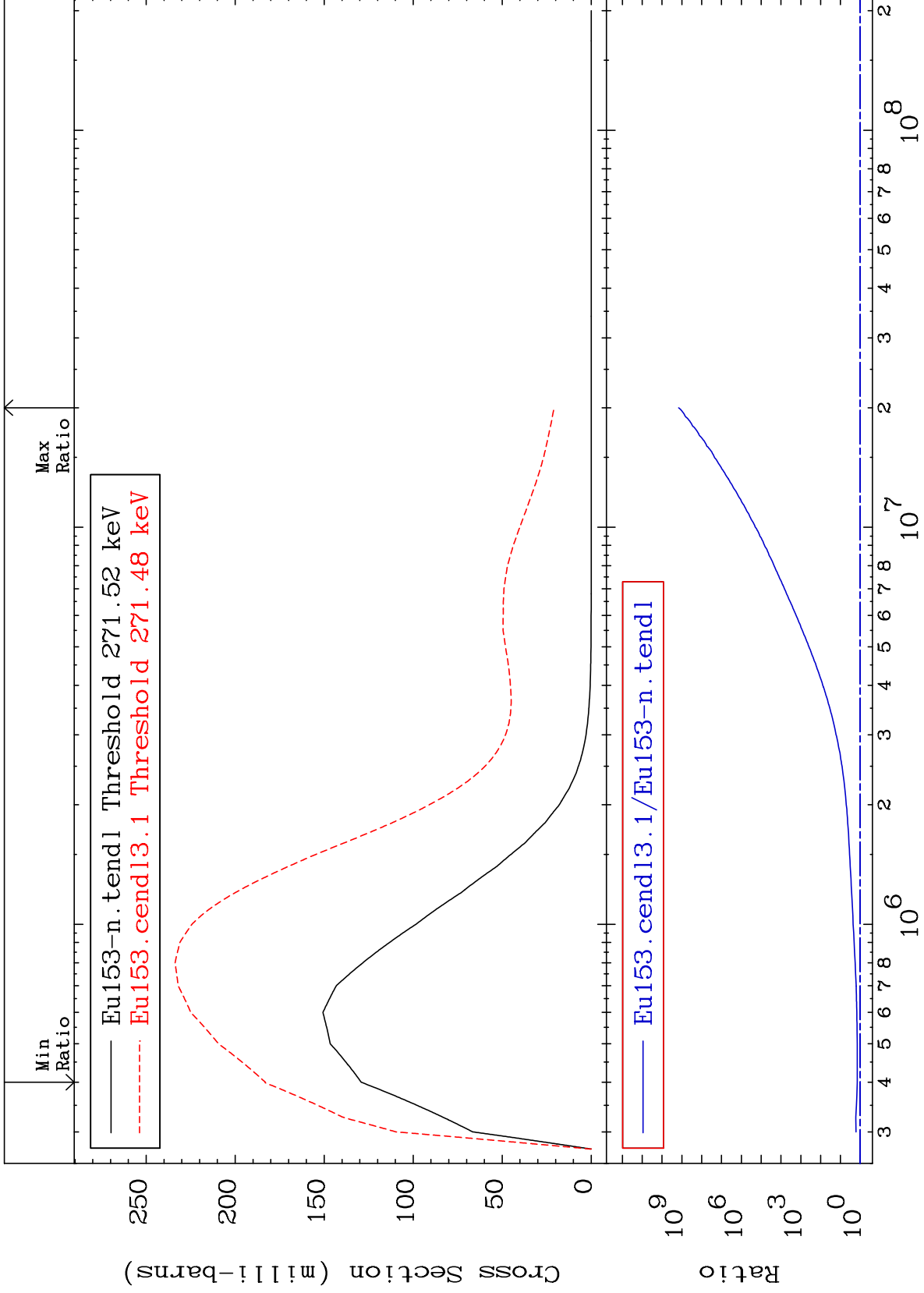
Incident Energy (eV)

63-Eu-153

MAT 6331

269.7 keV (n,n') Level  
Cross Section

63-Eu-153  
41.70 To 9999. %

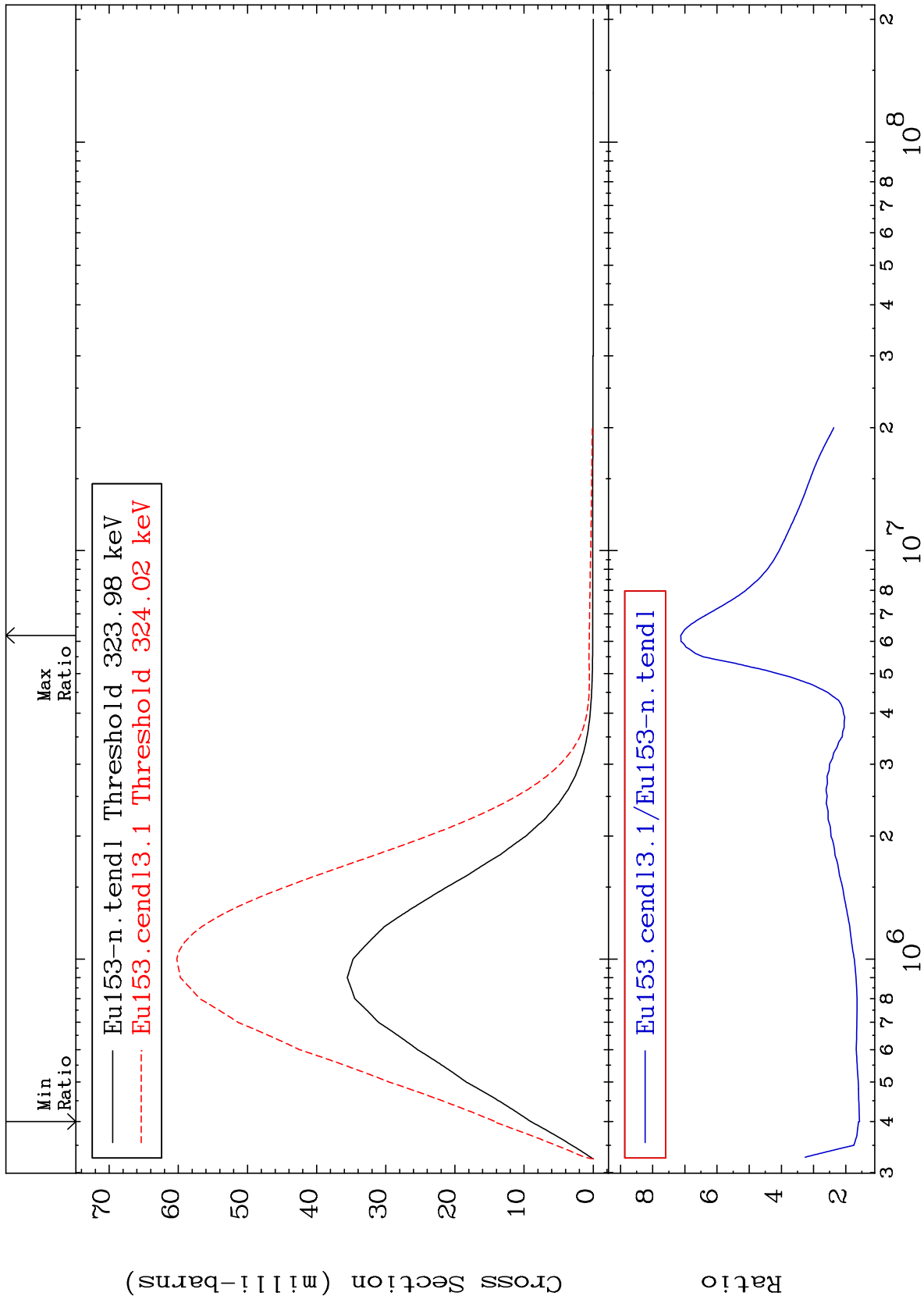


15

Incident Energy (eV)

63-Eu-153

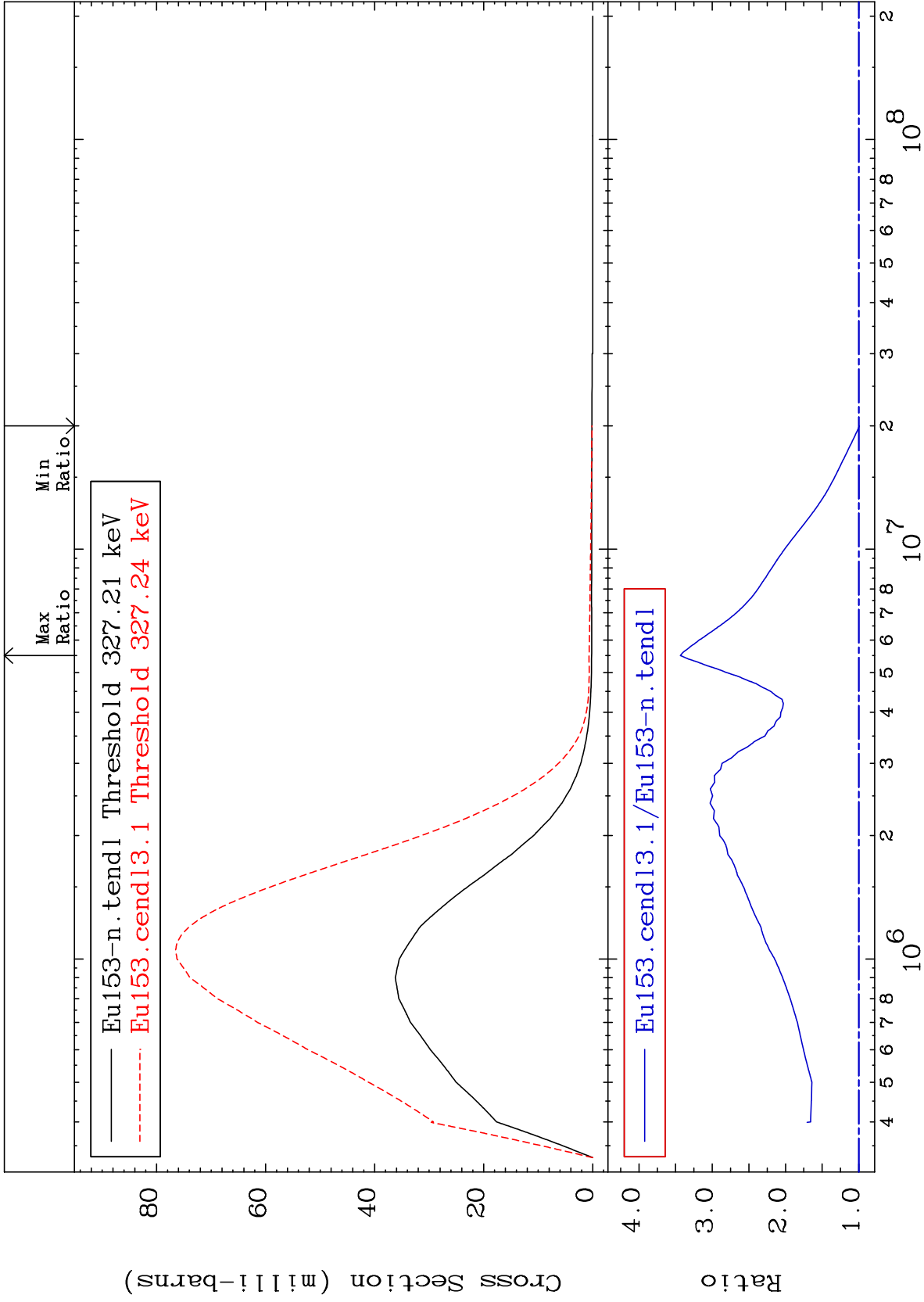
MAT 6331      321.9 keV (n,n') Level      63-Eu-153  
 Cross Section      57.12 To 612.7 %



16      Incident Energy (eV)      63-Eu-153



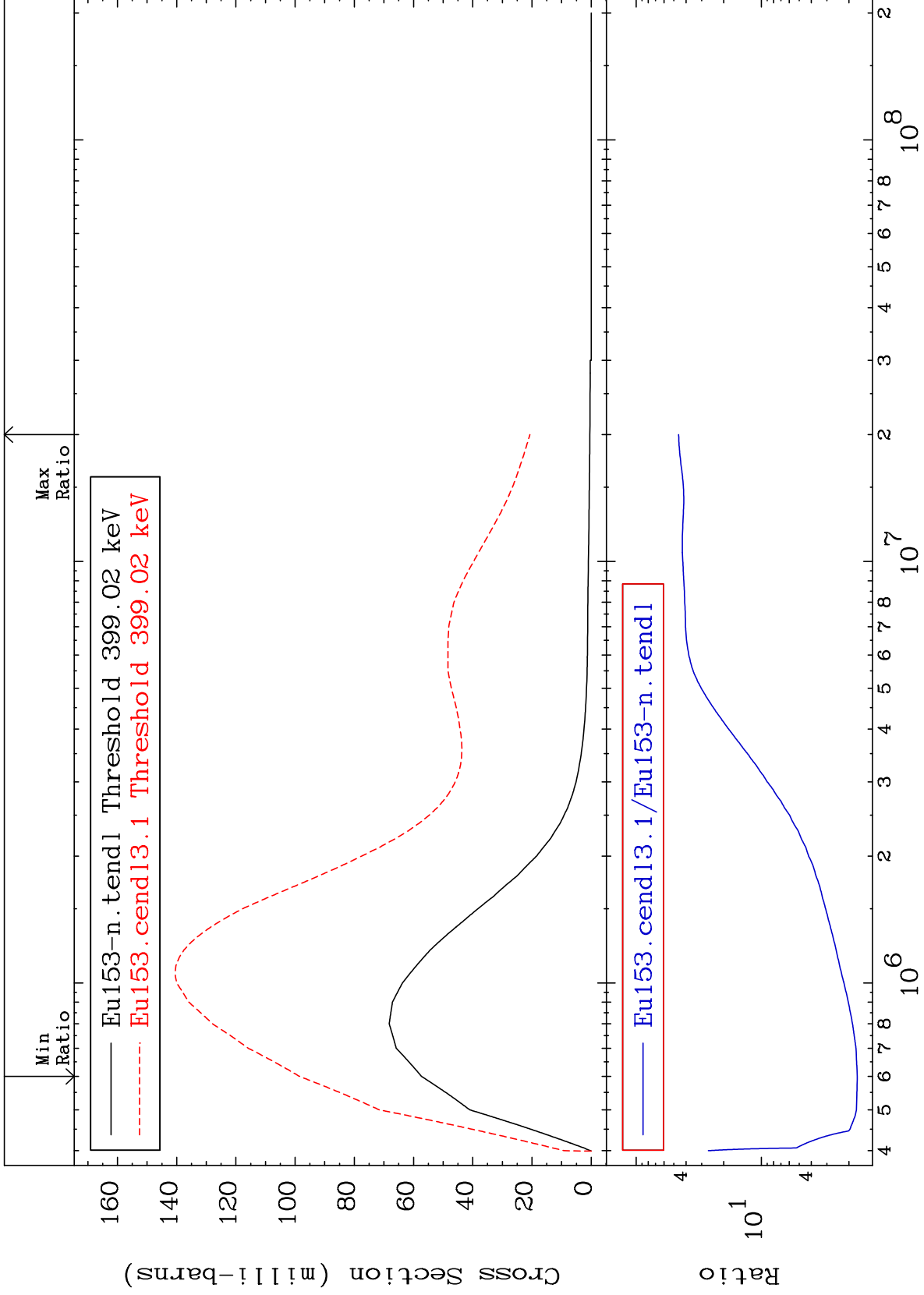
MAT 6331      325.1 keV (n,n') Level      63-Eu-153  
 Cross Section      -0.869 To 243.5 %



MAT 6331

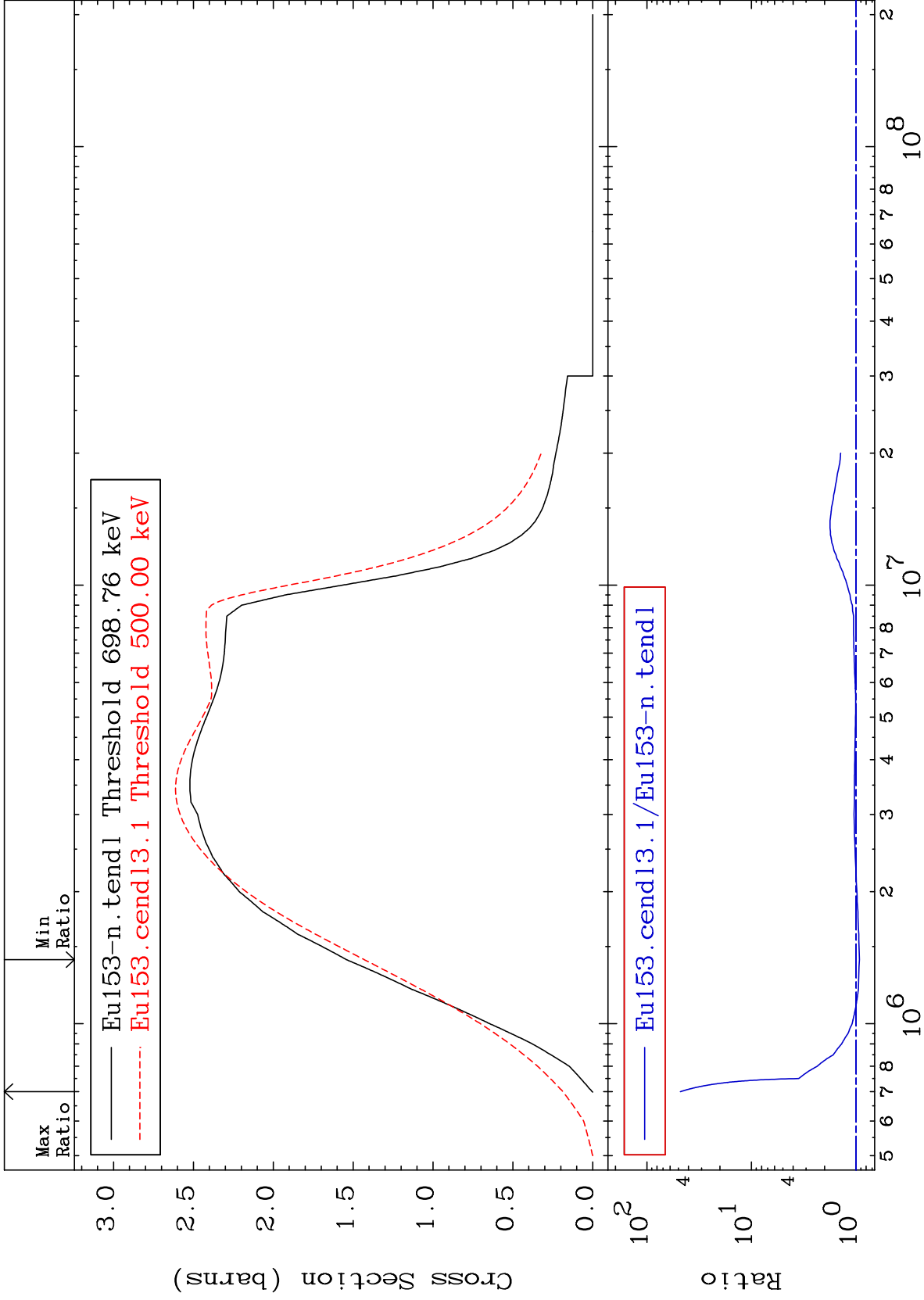
396.4 keV (n,n') Level  
Cross Section

63-Eu-153  
71.85 To 4482. %



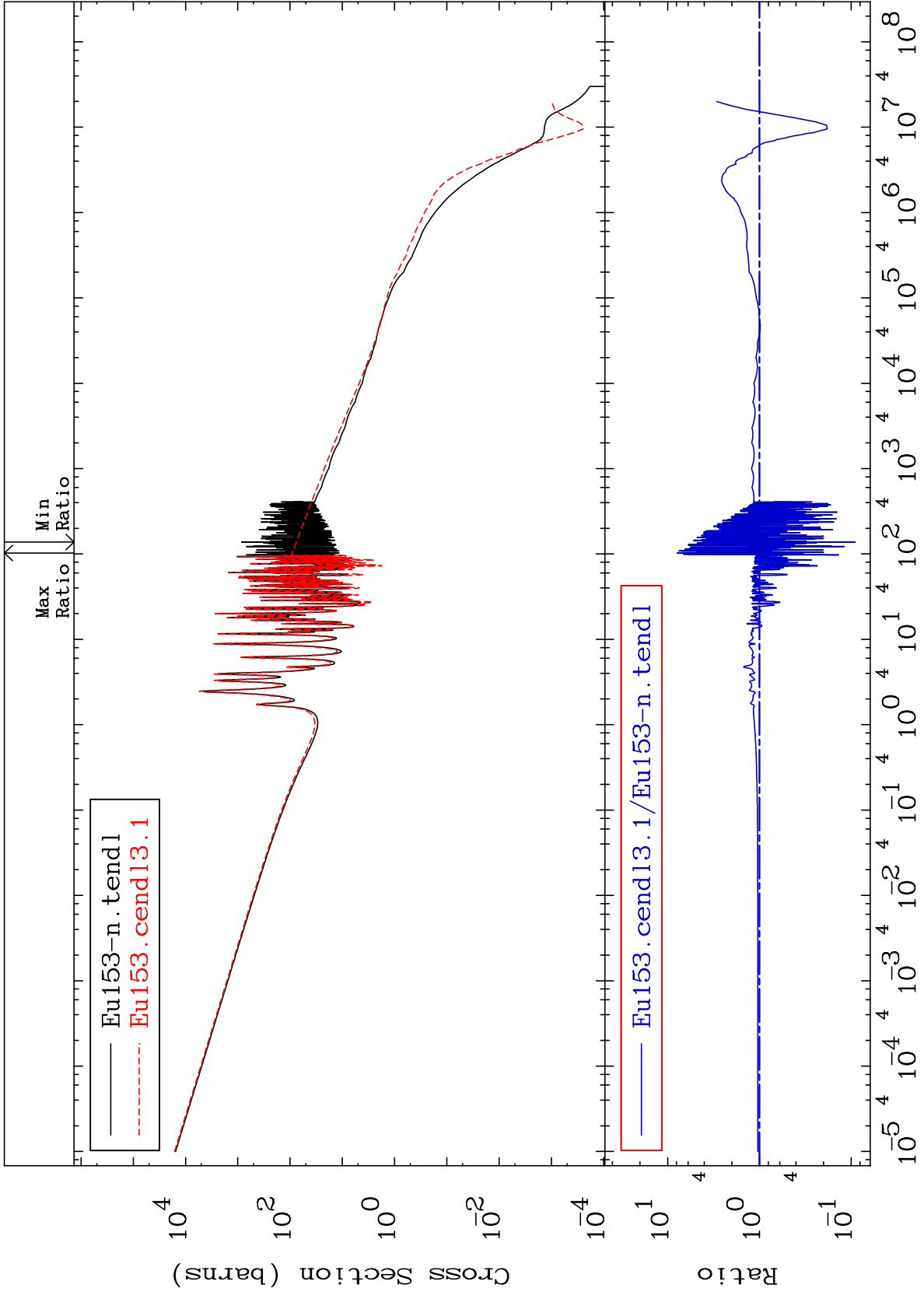
18

63-Eu-153



MAT 6331

(n,  $\gamma$ )  
Cross Section  
63-Eu-153  
-90.94 To 692.4 %



20

Incident Energy (eV)

63-Eu-153

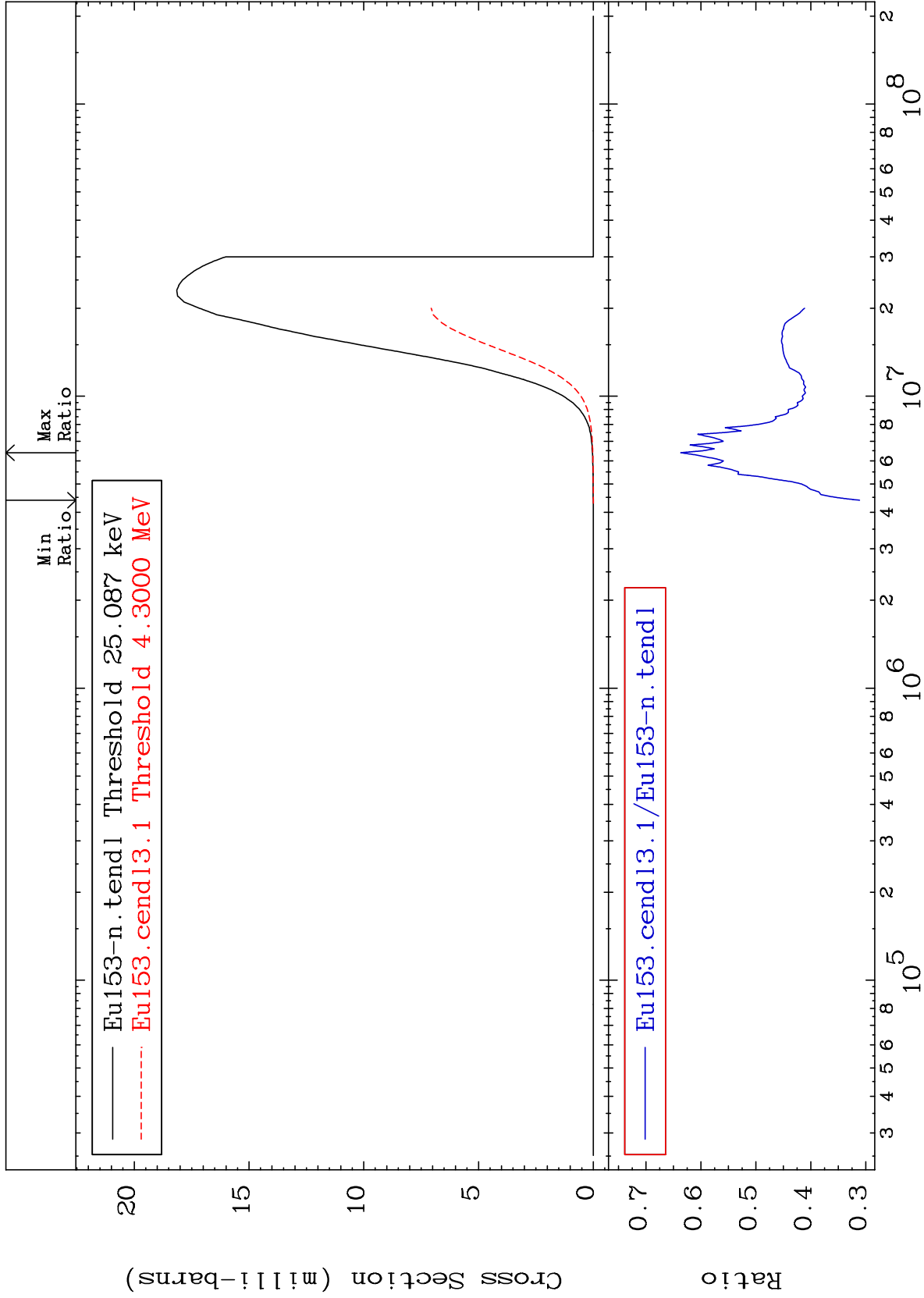
MAT 6331

(n, p)

63-Eu-153

Cross Section

-68.86 To -36.34%



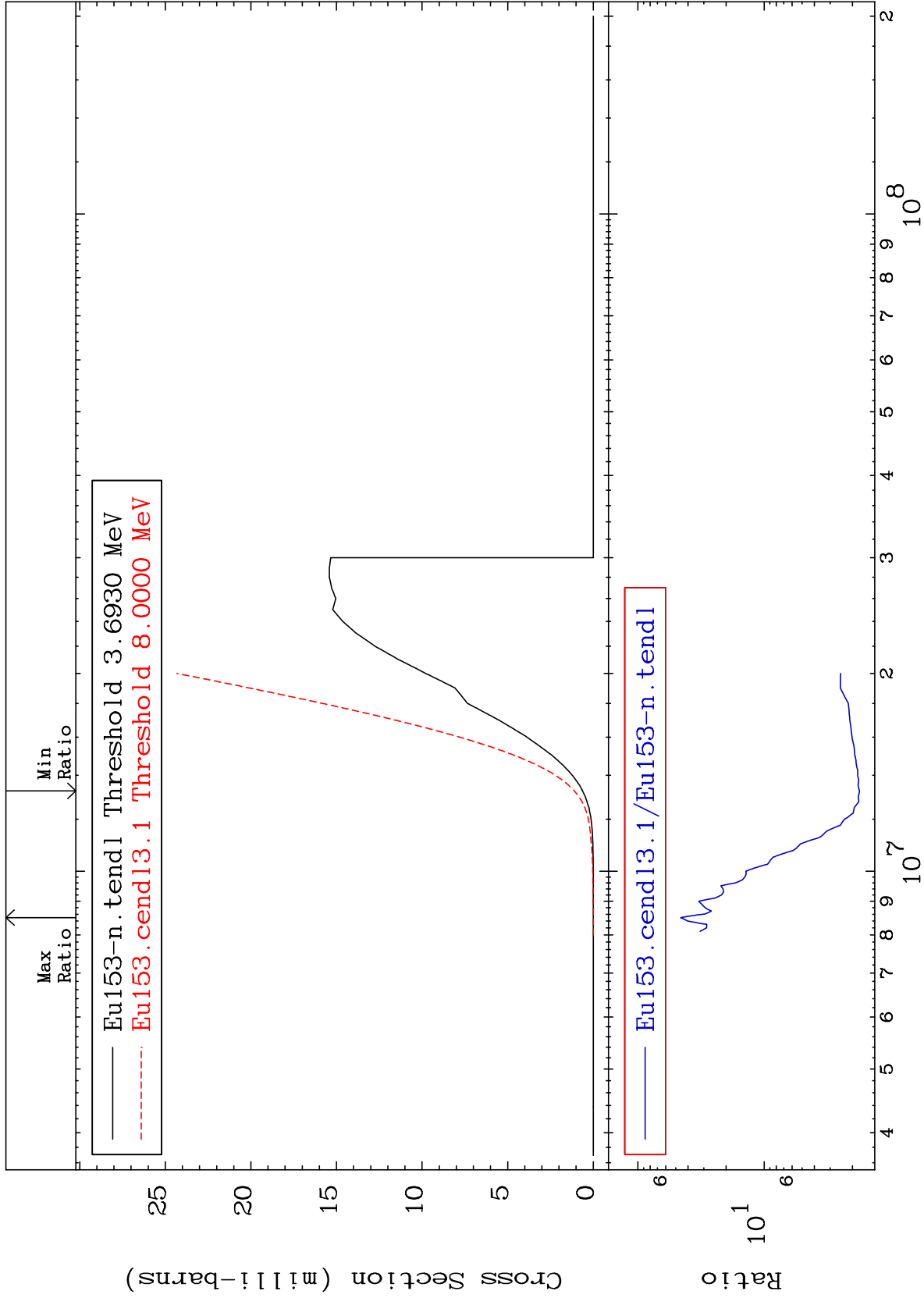
MAT 6331

(n, d)

63-Eu-153

Cross Section

75.59 To 4469. %



22

63-Eu-153

63-Eu-153

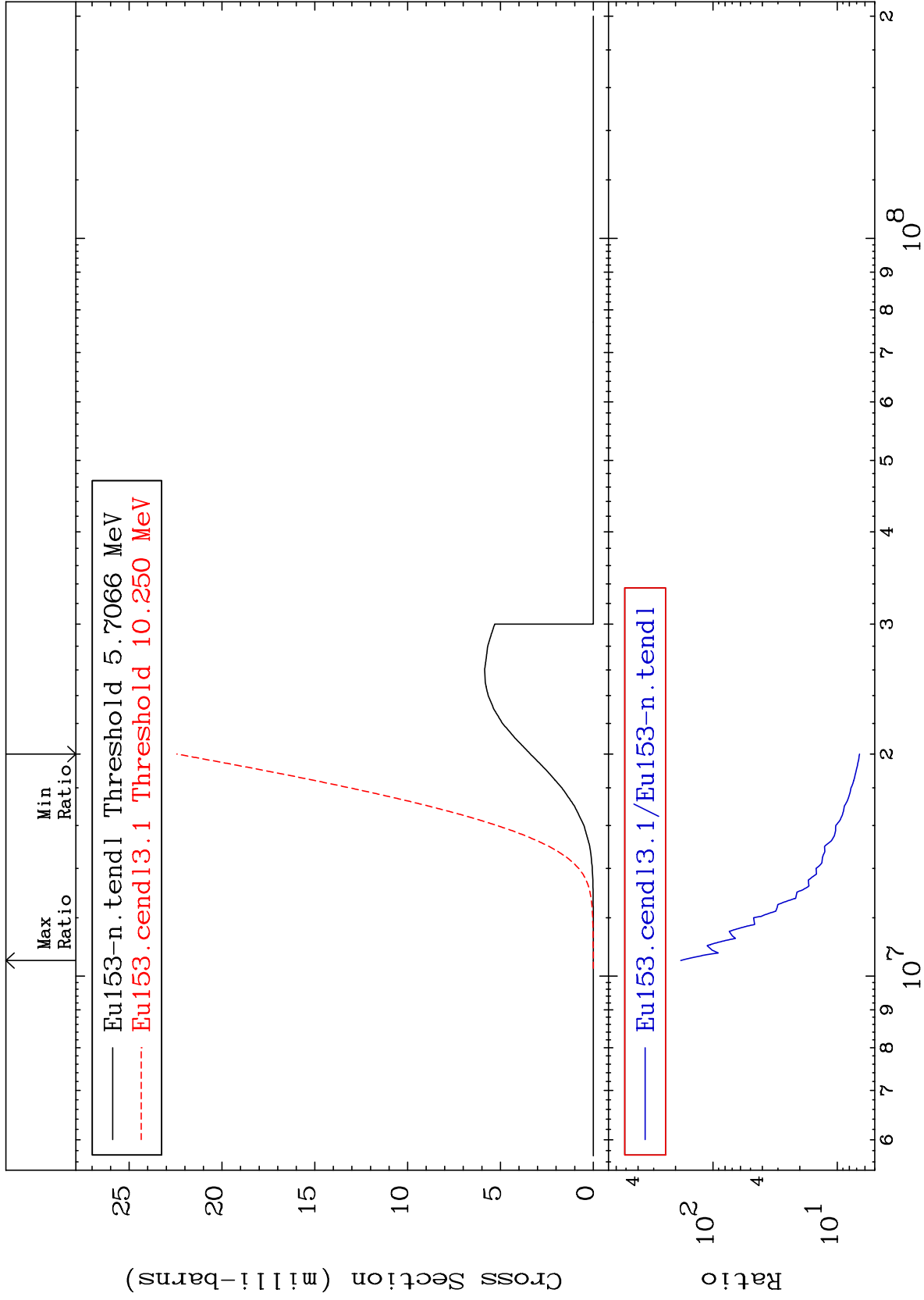
MAT 6331

(n, t)

63-Eu-153

Cross Section

562.4 To 9999. %



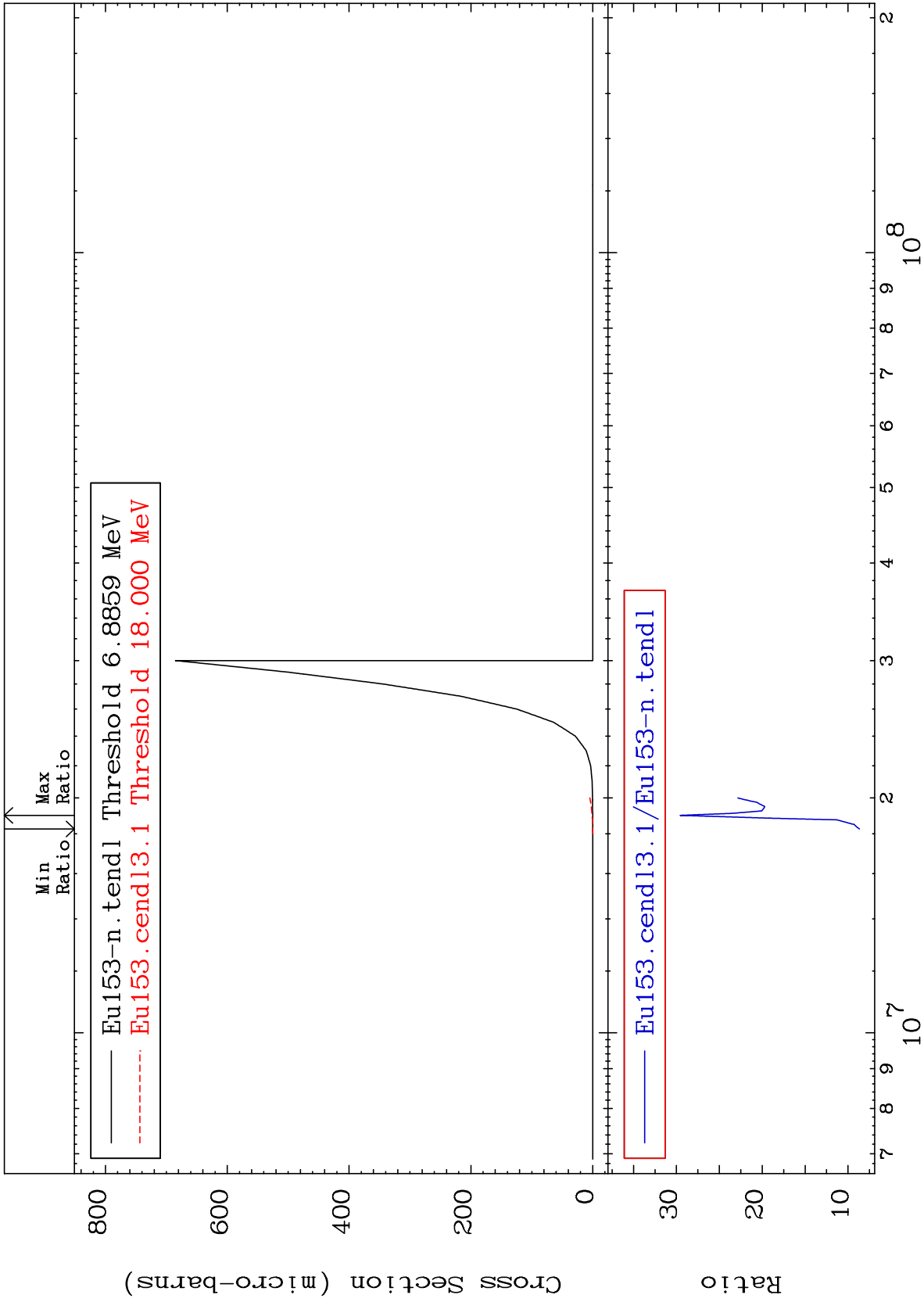
MAT 6331

(n, He-3)

63-Eu-153

Cross Section

766.9 To 2854. %



24

Incident Energy (eV)

63-Eu-153

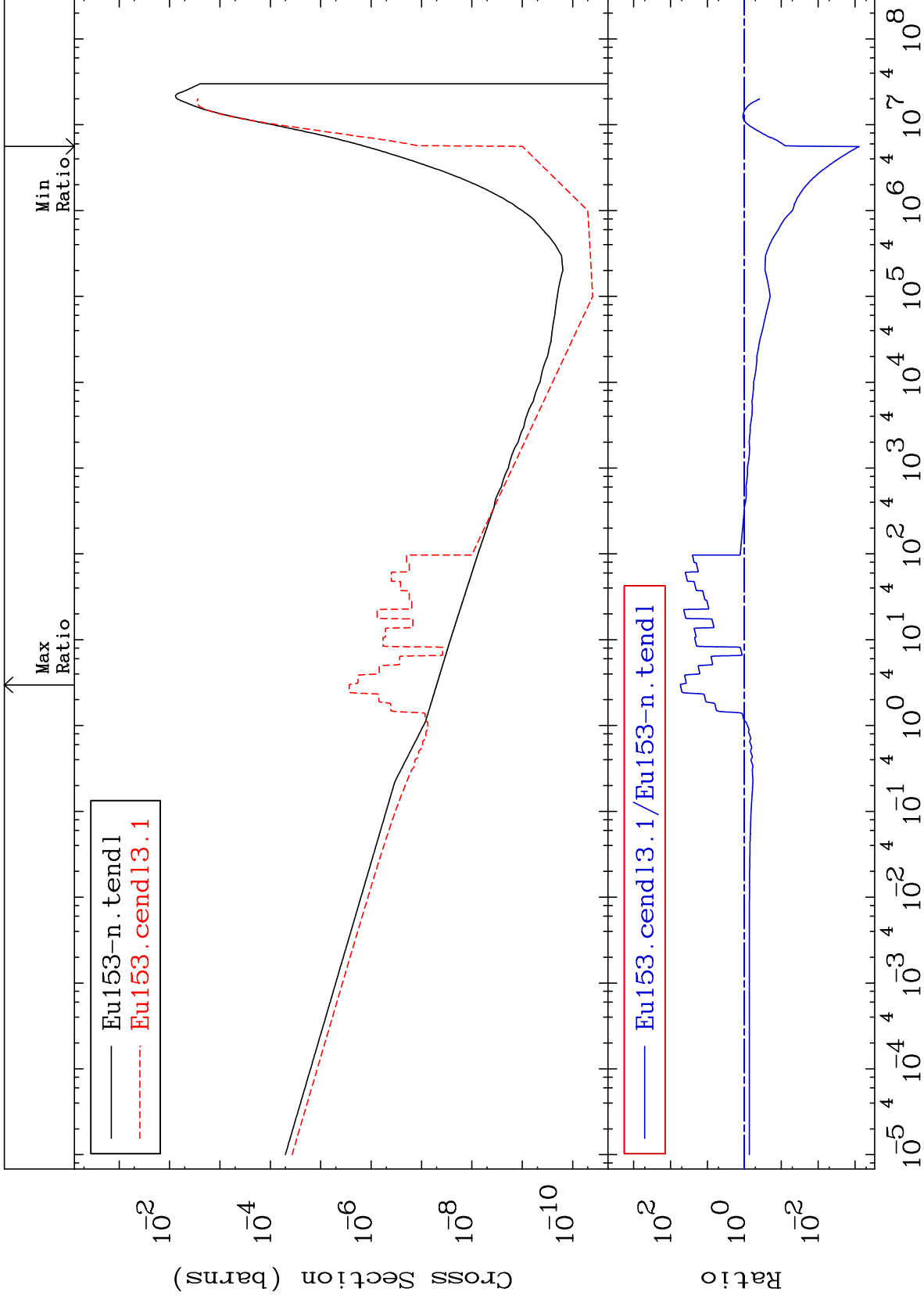


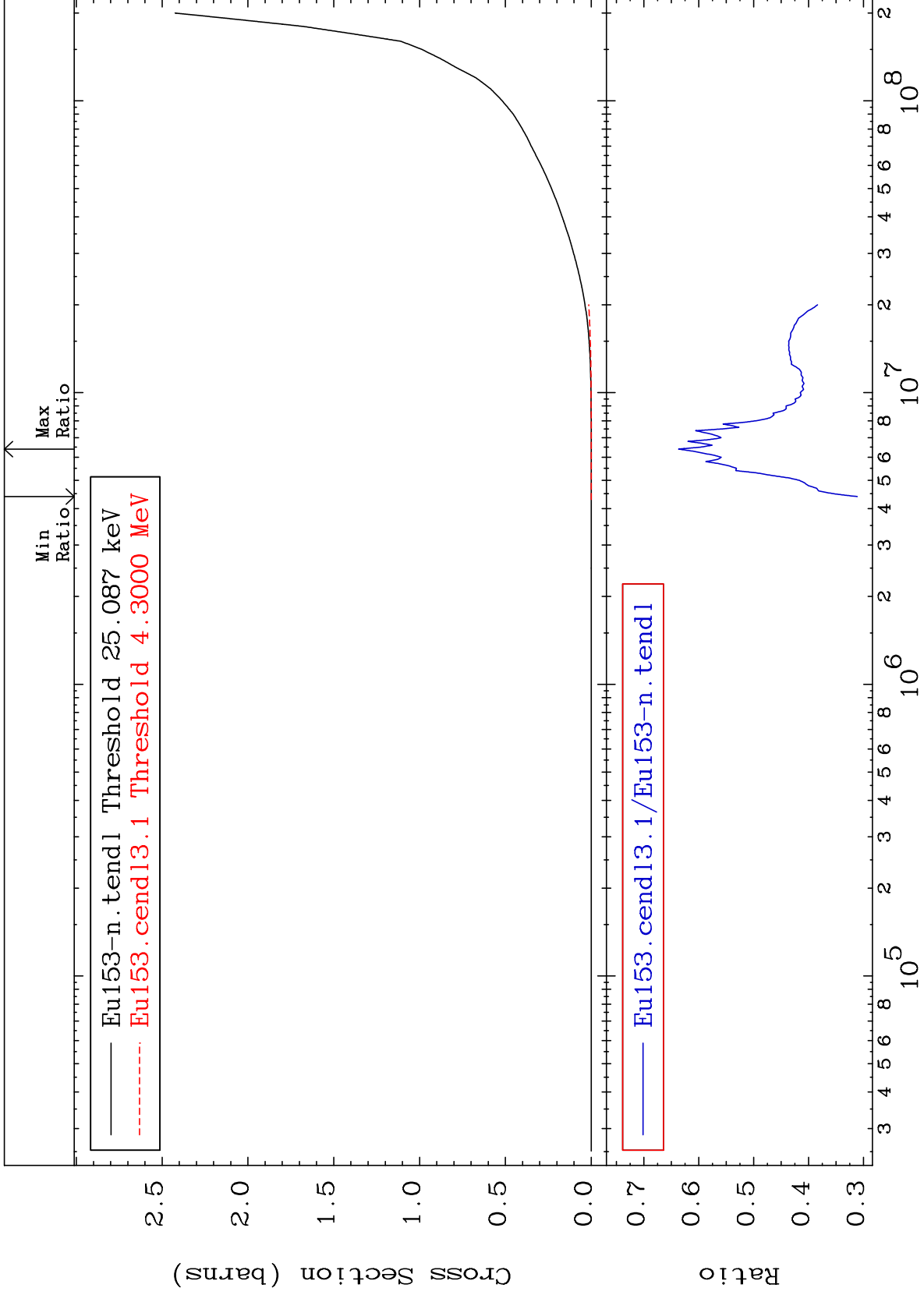
MAT 6331

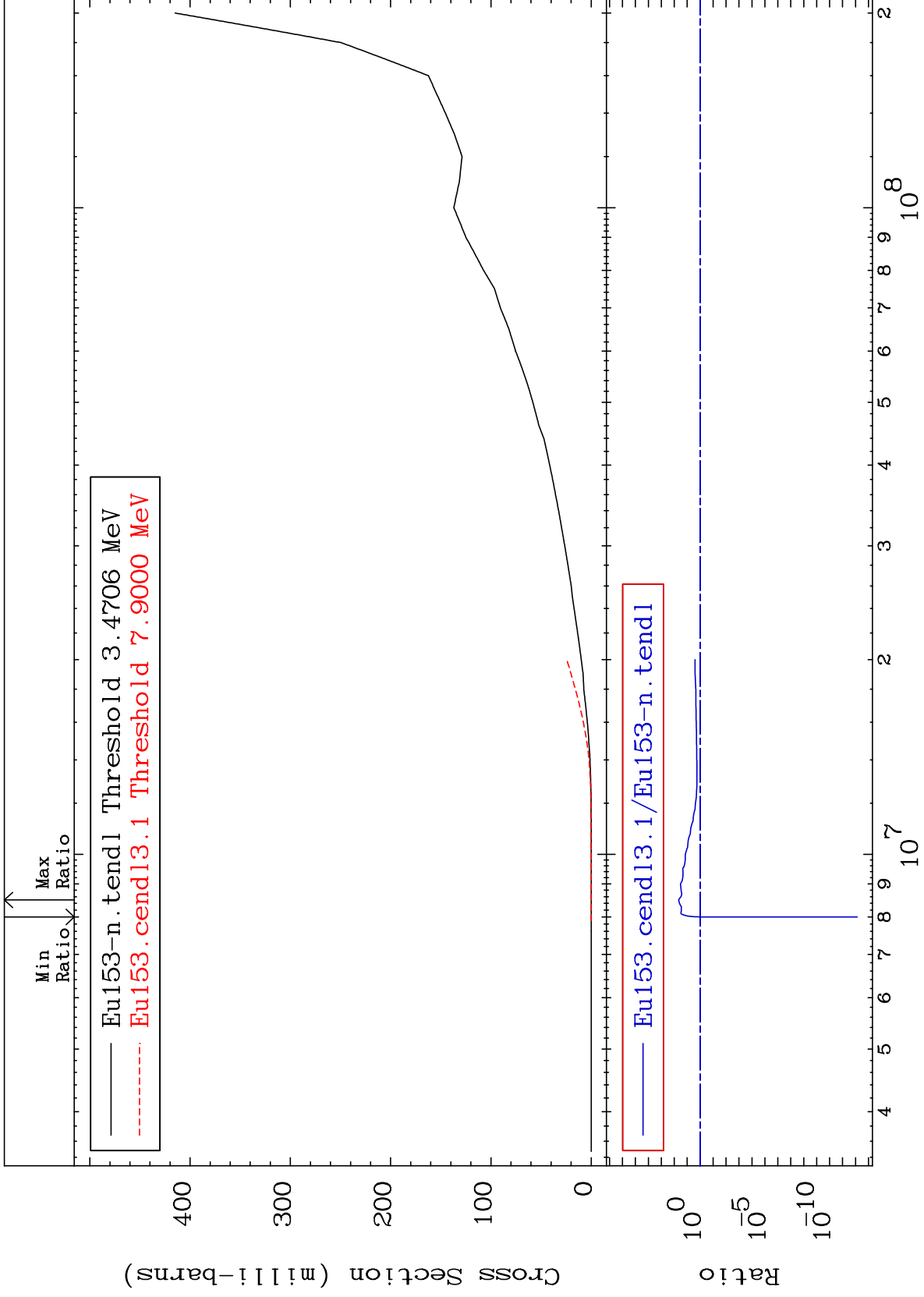
63-Eu-153

(n,  $\alpha$ )  
Cross Section

-99.92 To 5329. %



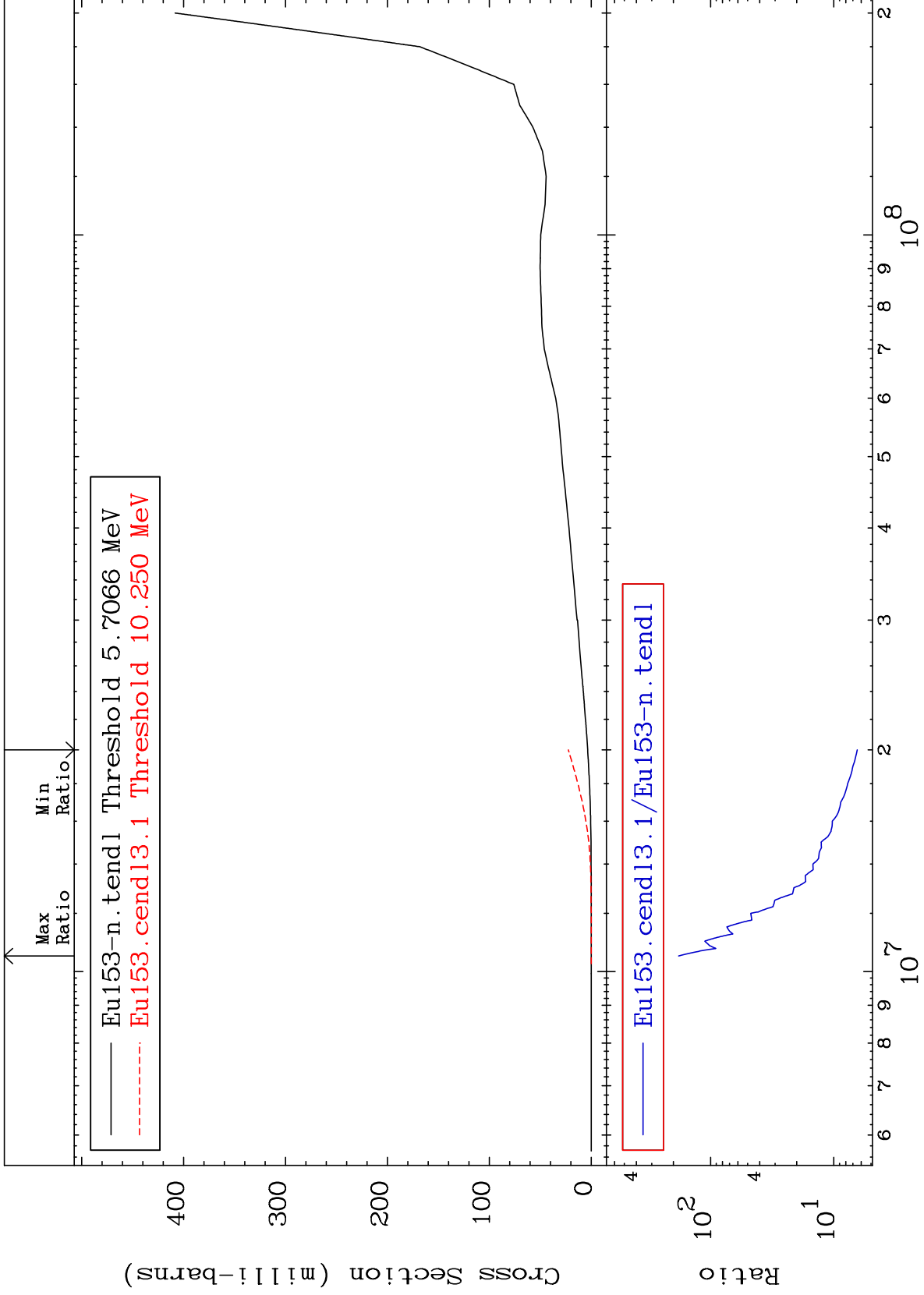




MAT 6331

Tritium Production  
Cross Section

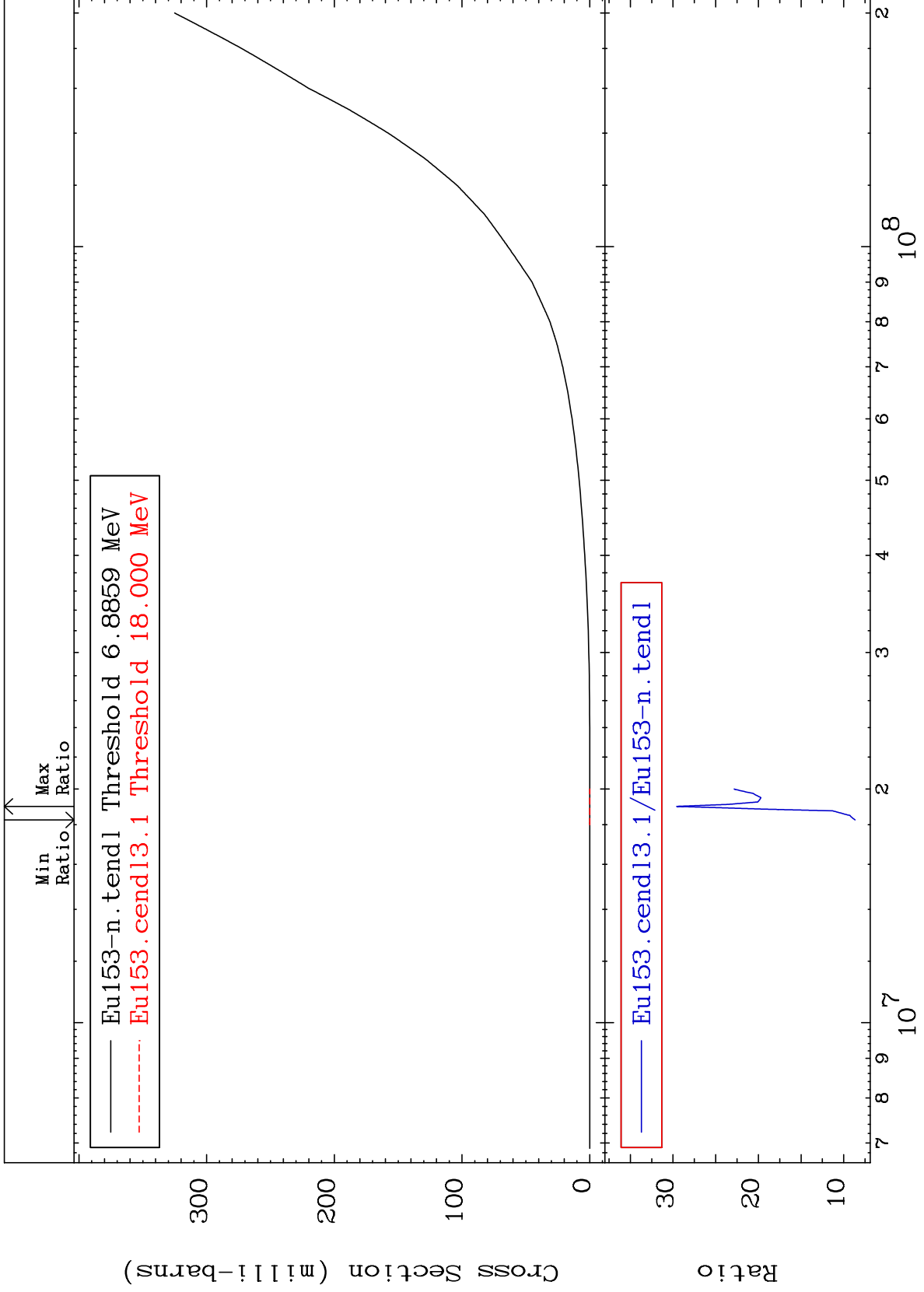
63-Eu-153  
545.9 To 9999. %



MAT 6331

He-3 Production  
Cross Section

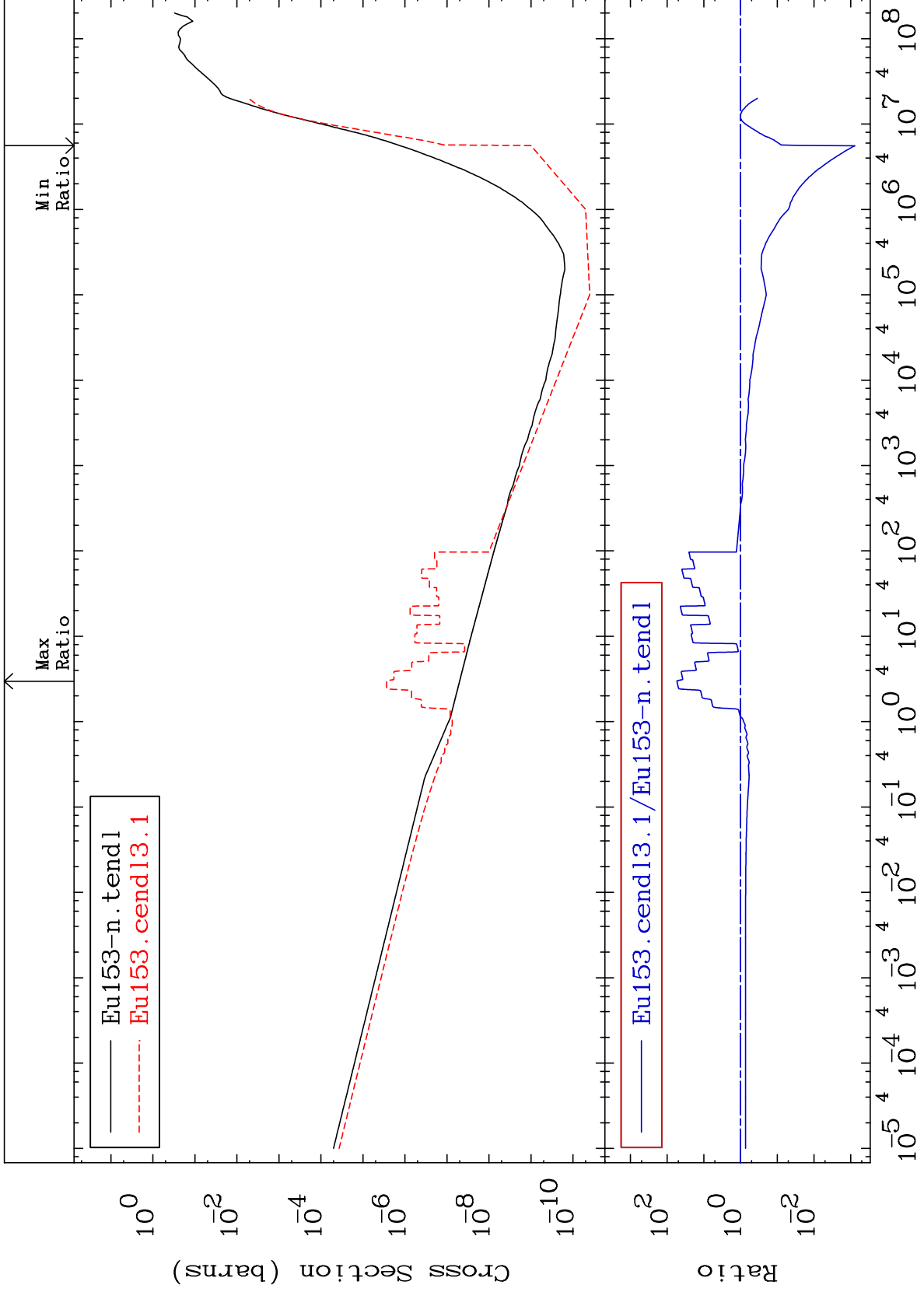
63-Eu-153  
766.9 To 2854. %



MAT 6331

He-4 Production  
Cross Section

63-Eu-153  
-99.92 To 5329. %



30

Incident Energy (eV)

63-Eu-153

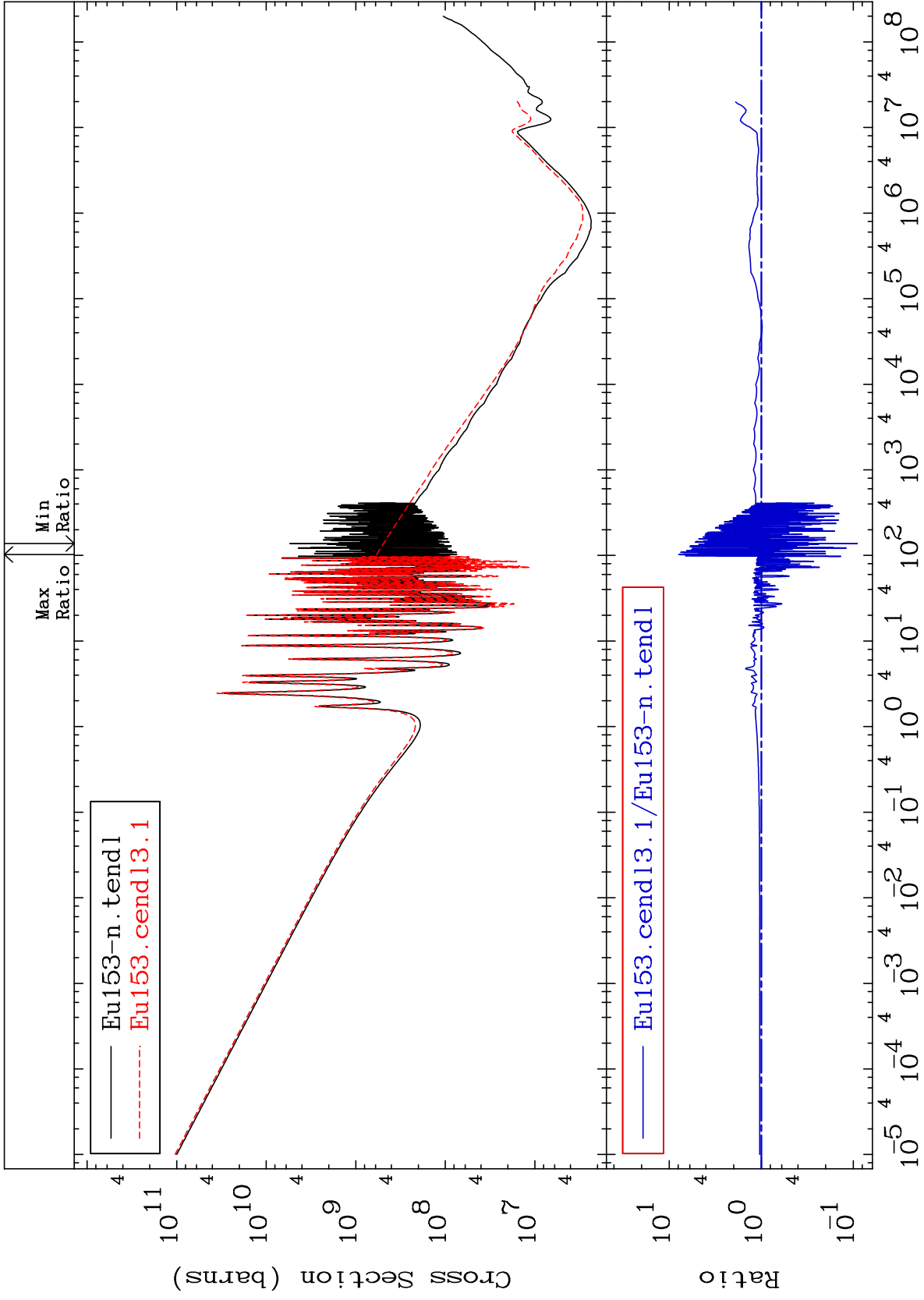
MAT 6331

Kerma total (eV-barns)

63-Eu-153

Cross Section

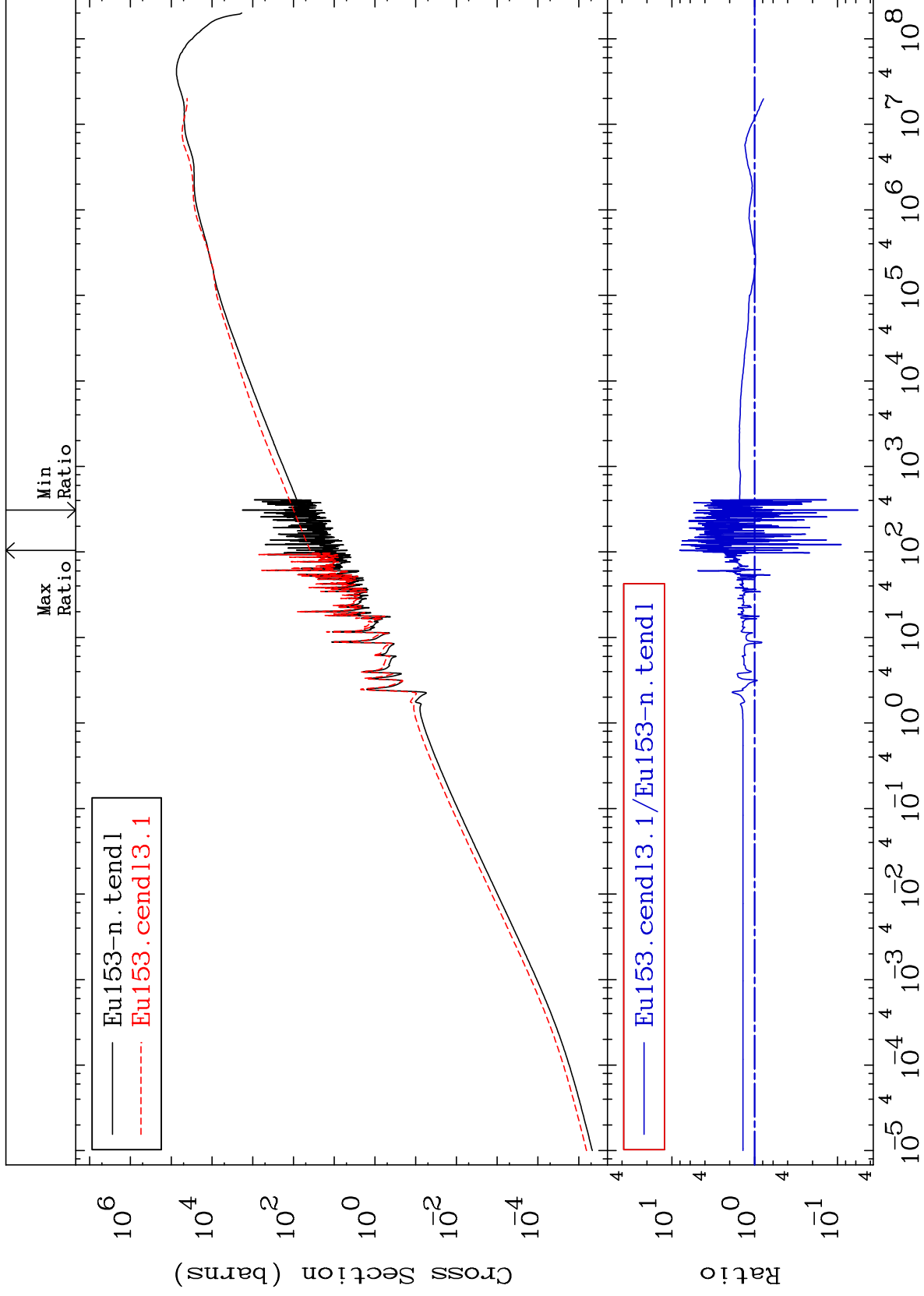
-90.94 To 692.3 %



MAT 6331

Kerma elastic  
Cross Section

63-Eu-153  
-94.36 To 706.1 %



32

Incident Energy (eV)

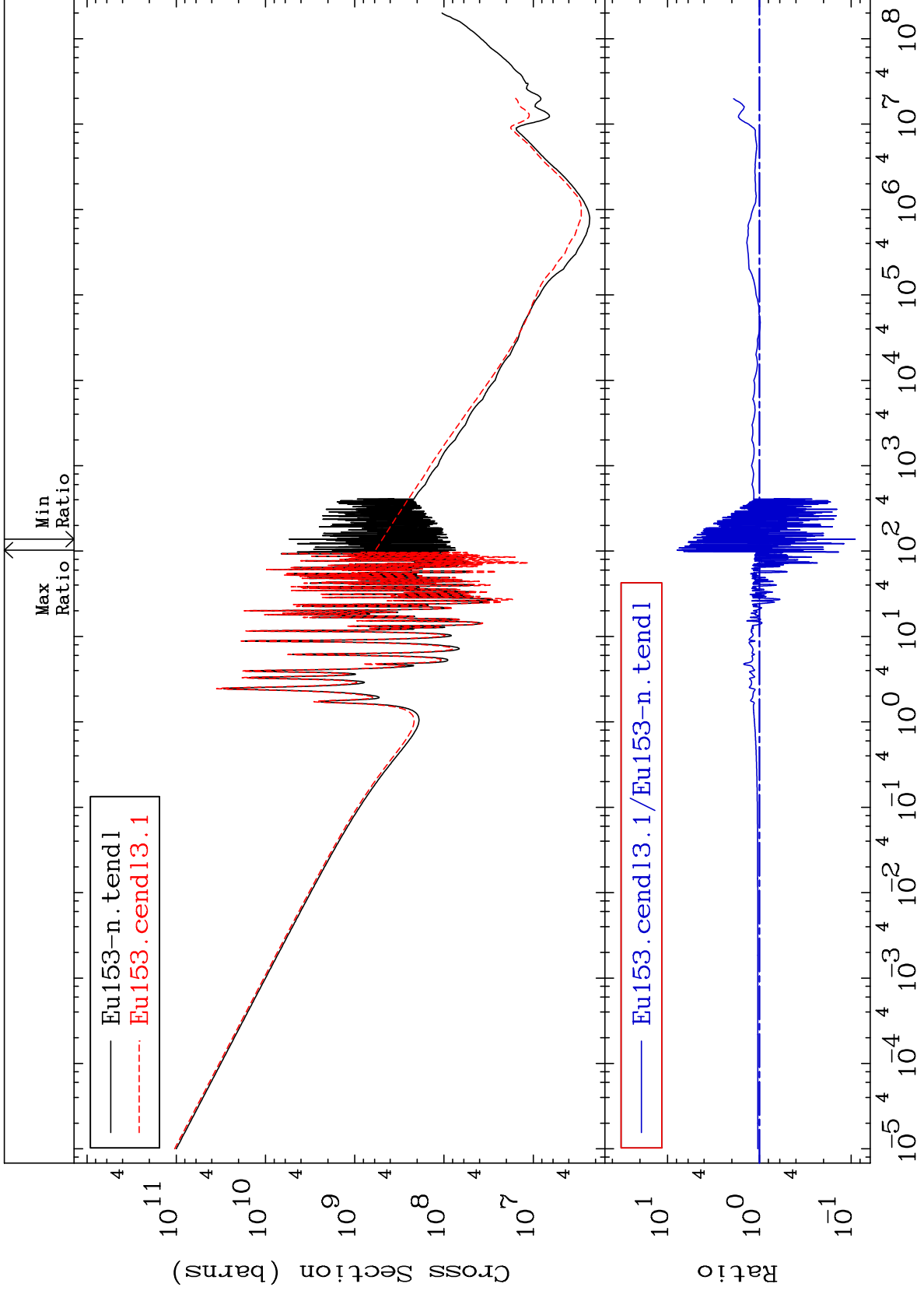
63-Eu-153



MAT 6331

Kerma non-elastic (all but mt2)  
Cross Section

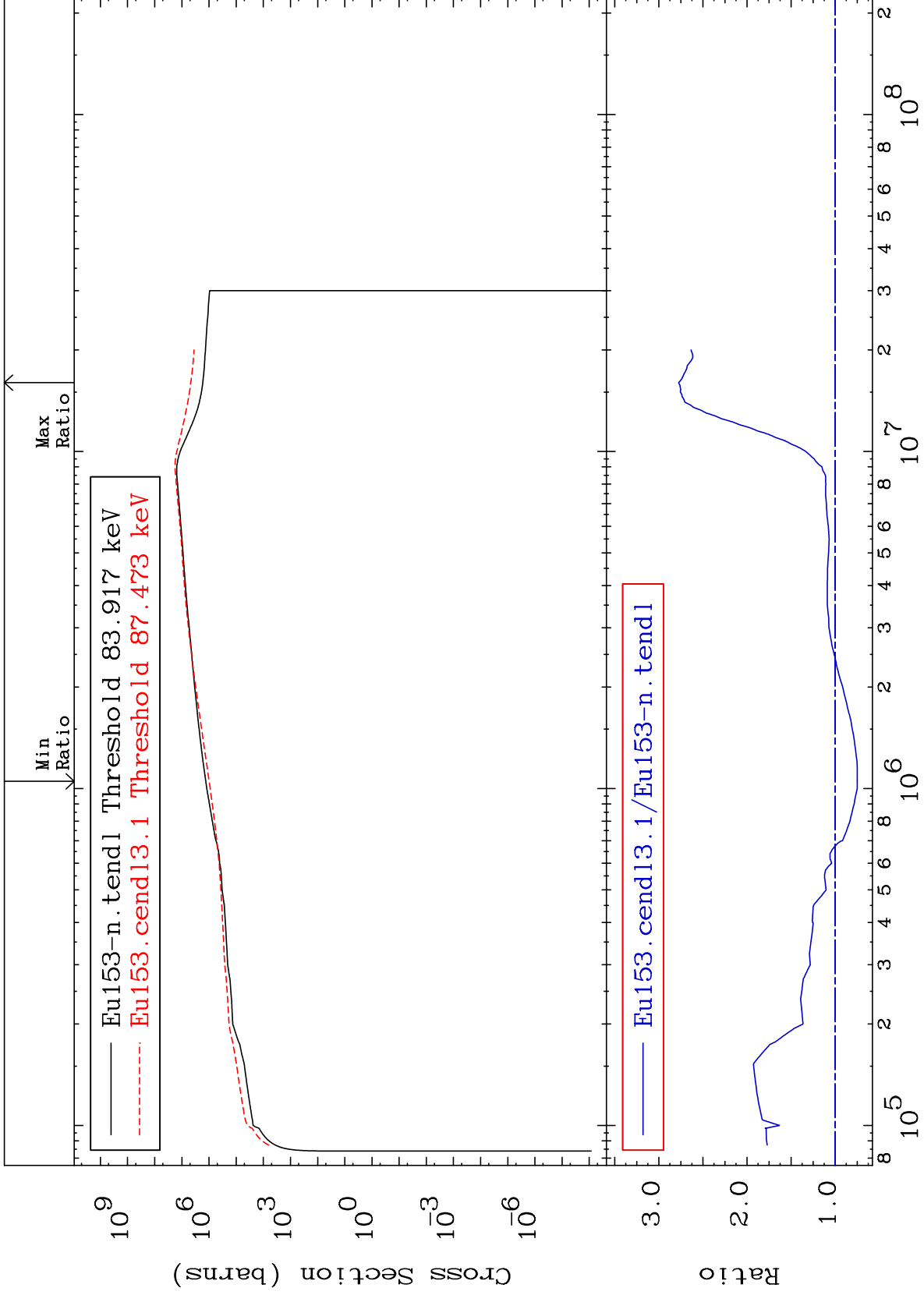
63-Eu-153  
-90.94 To 692.3 %



MAT 6331

Kerma inelastic (mt51-91)  
Cross Section

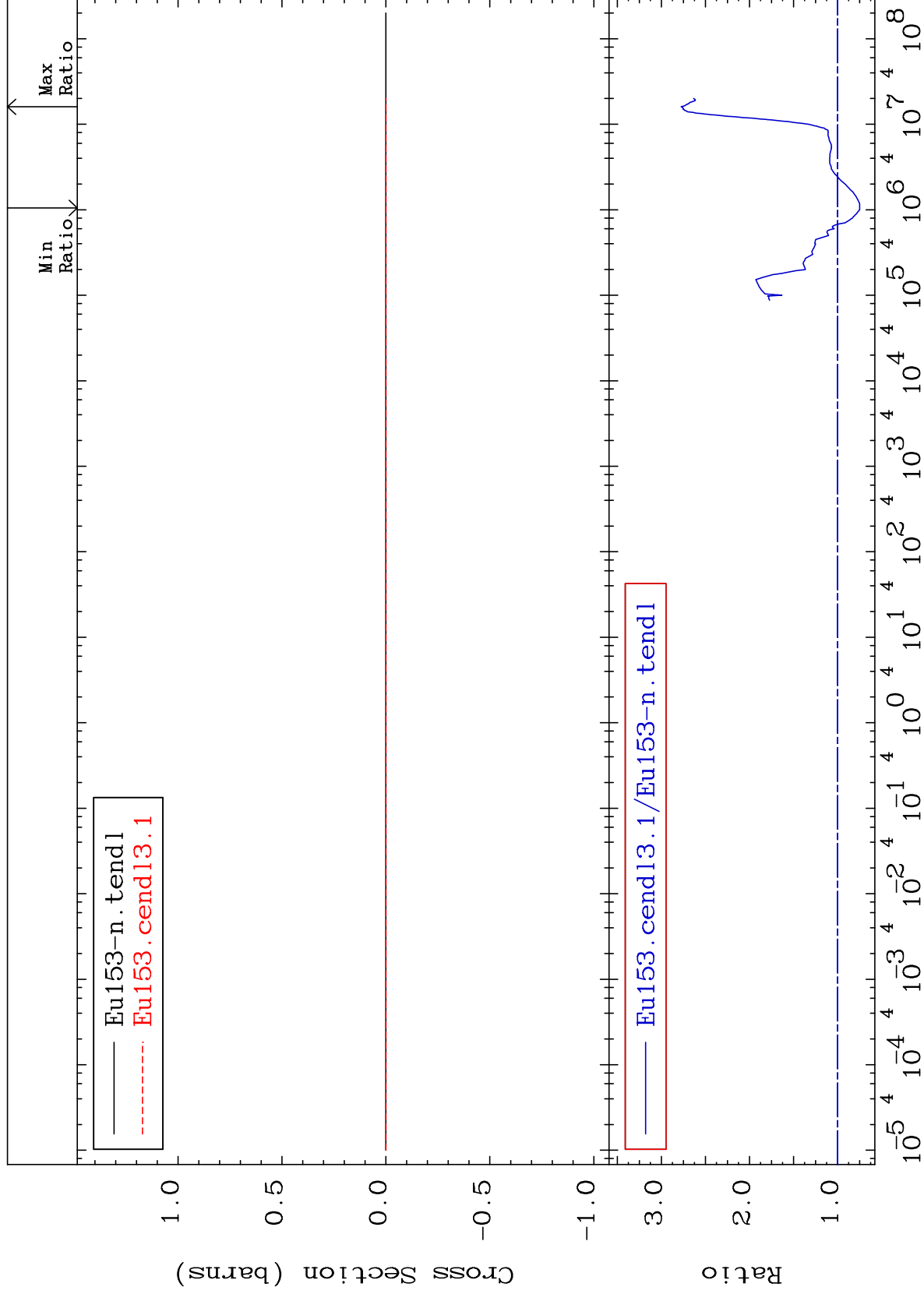
63-Eu-153  
-25.03 To 177.6 %



MAT 6331

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

63-Eu-153  
-25.03 To 177.6 %



35

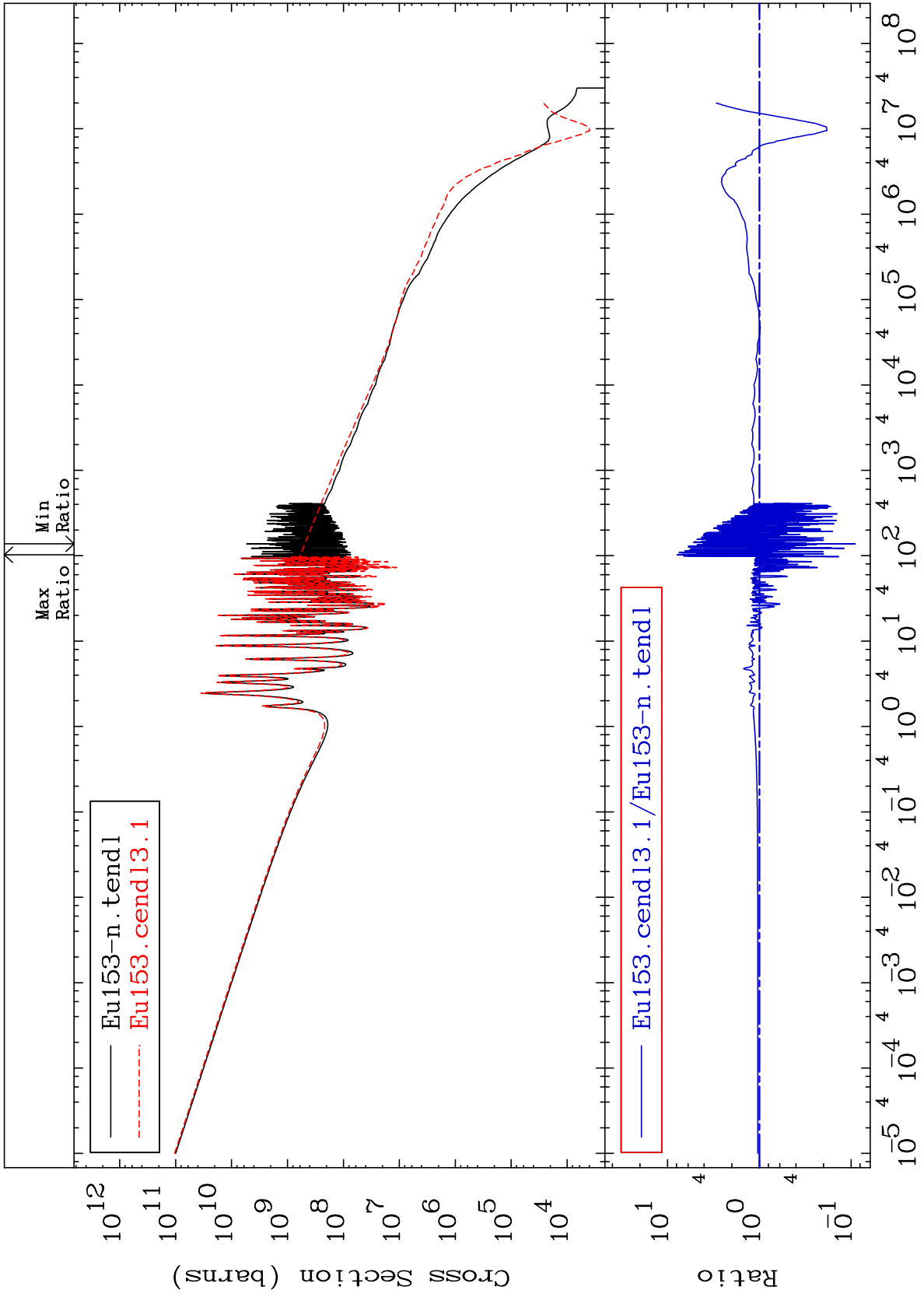
Incident Energy (eV)

63-Eu-153

MAT 6331

Kerma capture (mt102)  
Cross Section

63-Eu-153  
-90.94 To 692.3 %

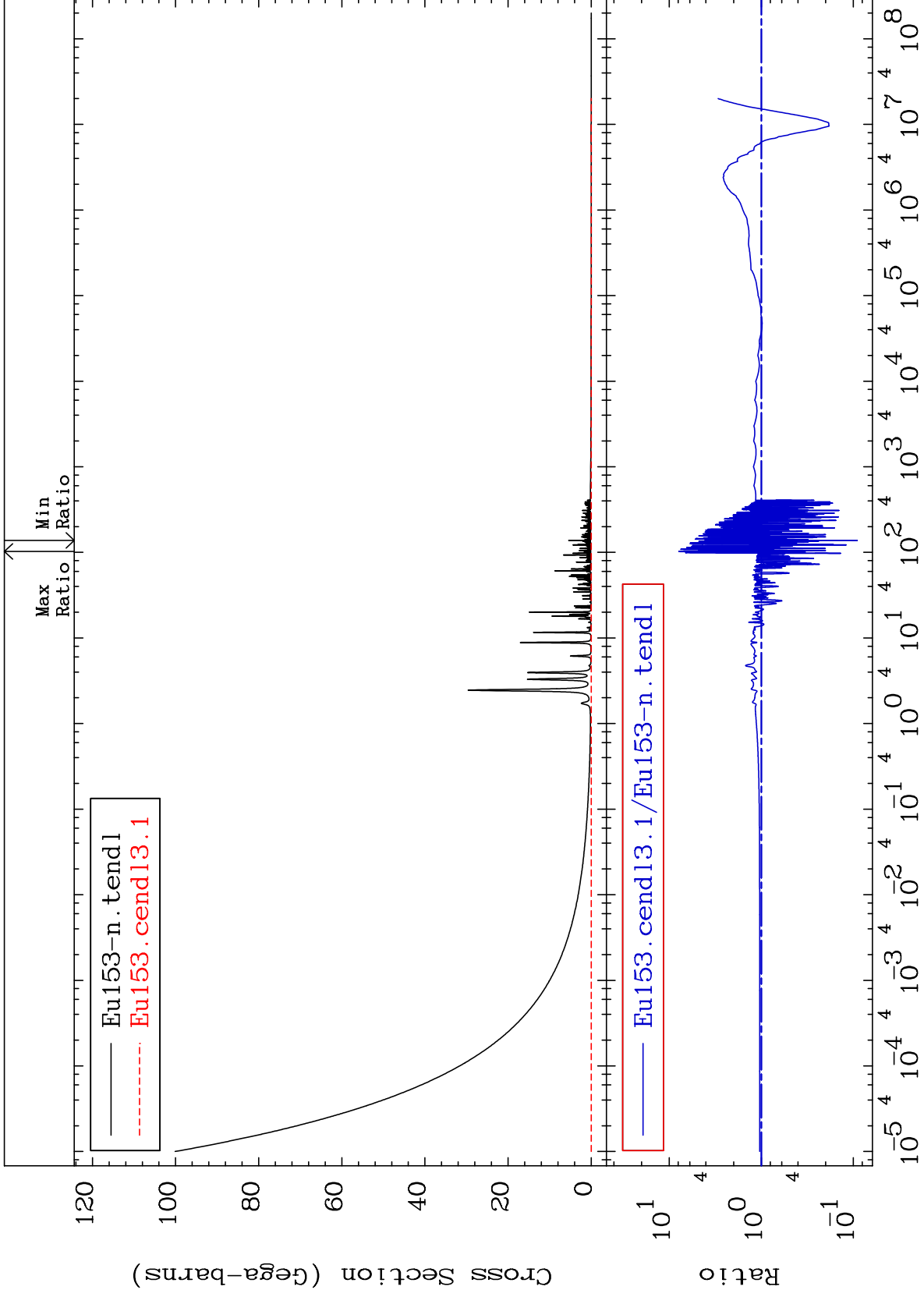


MAT 6331

Total photon (eV-barns)  
Cross Section

63-Eu-153

-90.94 To 692.3 %



37

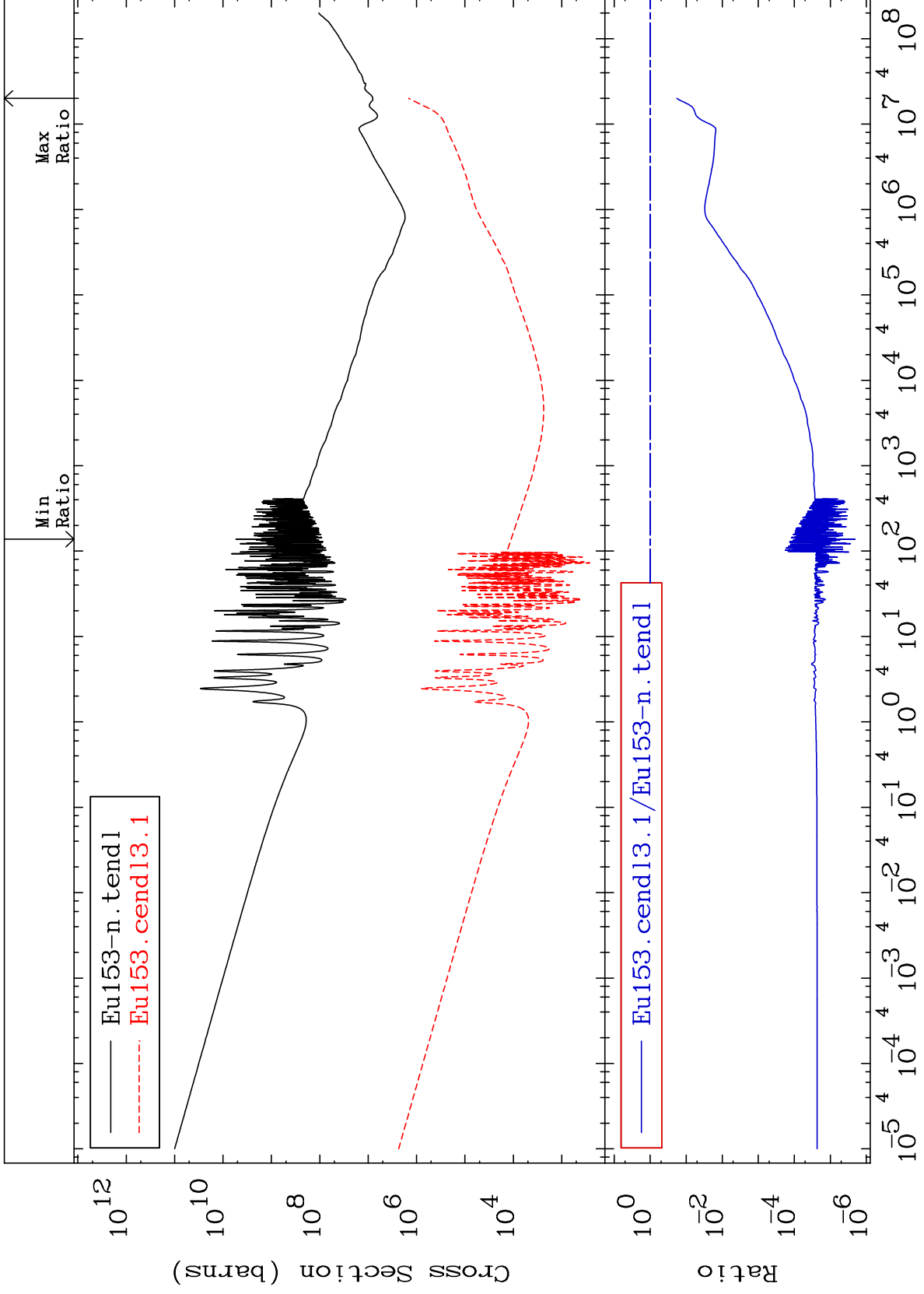
Incident Energy (eV)

63-Eu-153

MAT 6331

Total kinematic kerma (high limit)  
Cross Section

63-Eu-153  
-100.0 To -81.87%



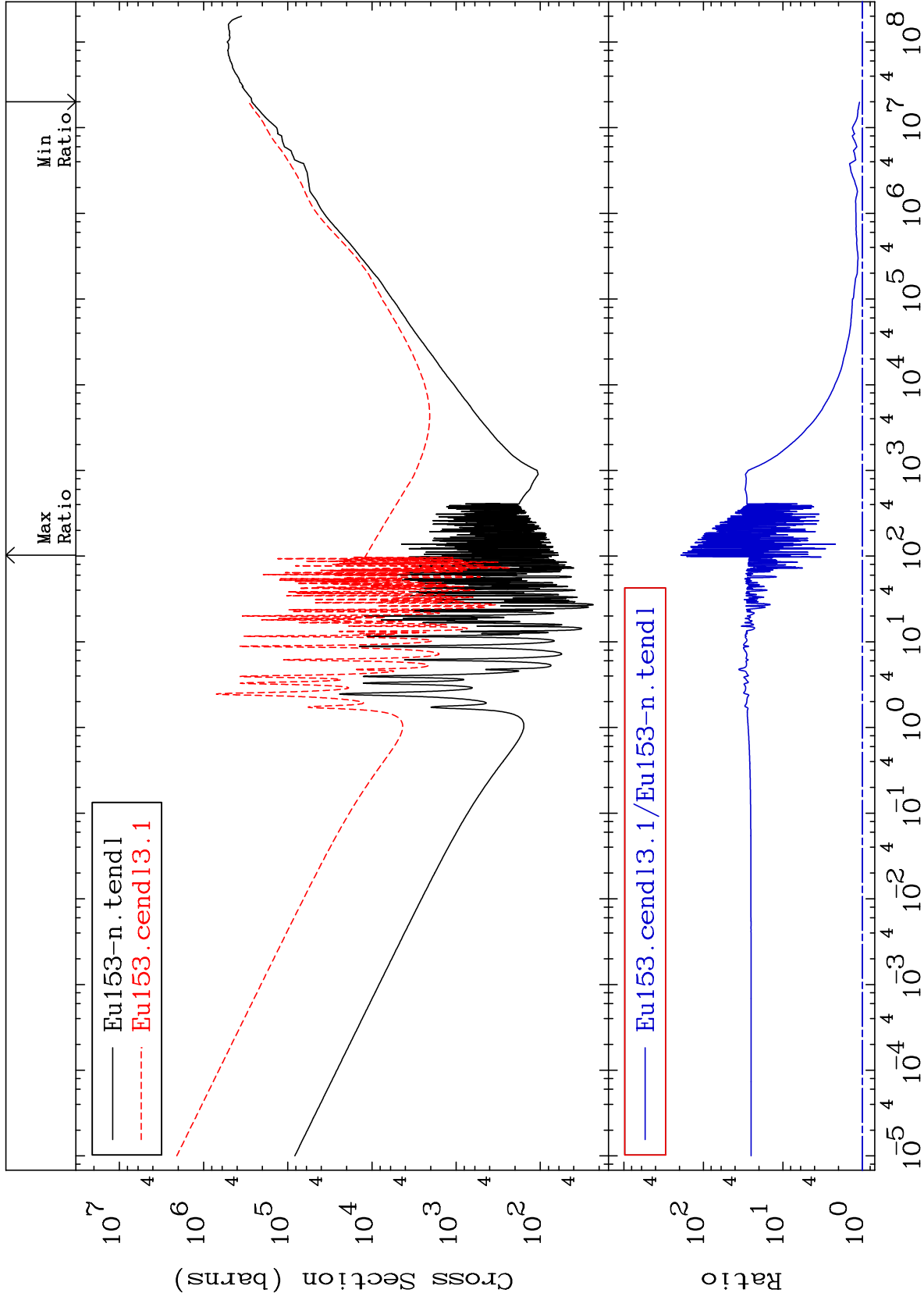
MAT 6331

Dpa total (eV-barns)

63-Eu-153

Cross Section

9.064 To 9999. %



39

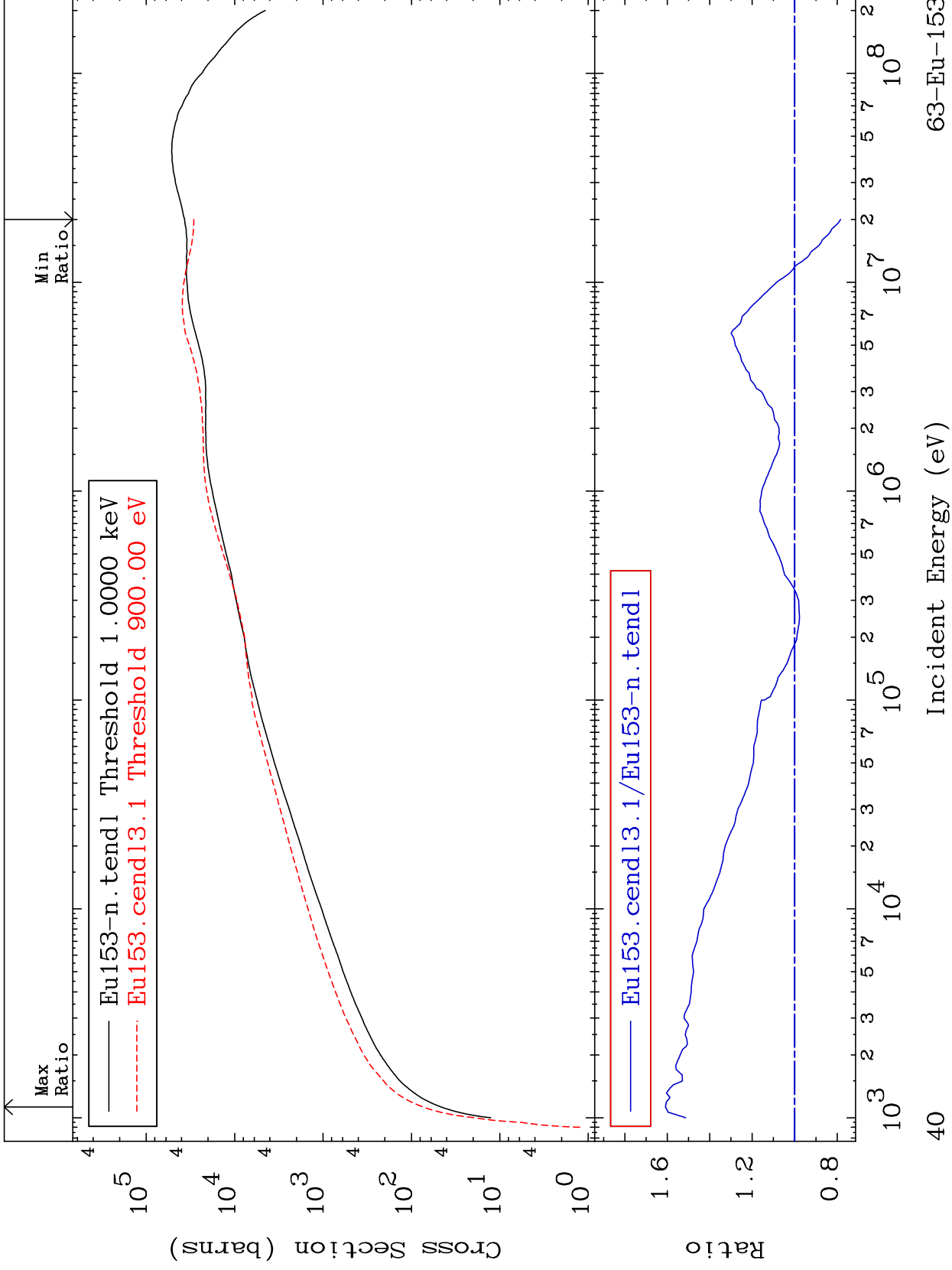
Incident Energy (eV)

63-Eu-153

MAT 6331

Dpa elastic (mt2)  
Cross Section

63-Eu-153  
-21.67 To 60.84 %

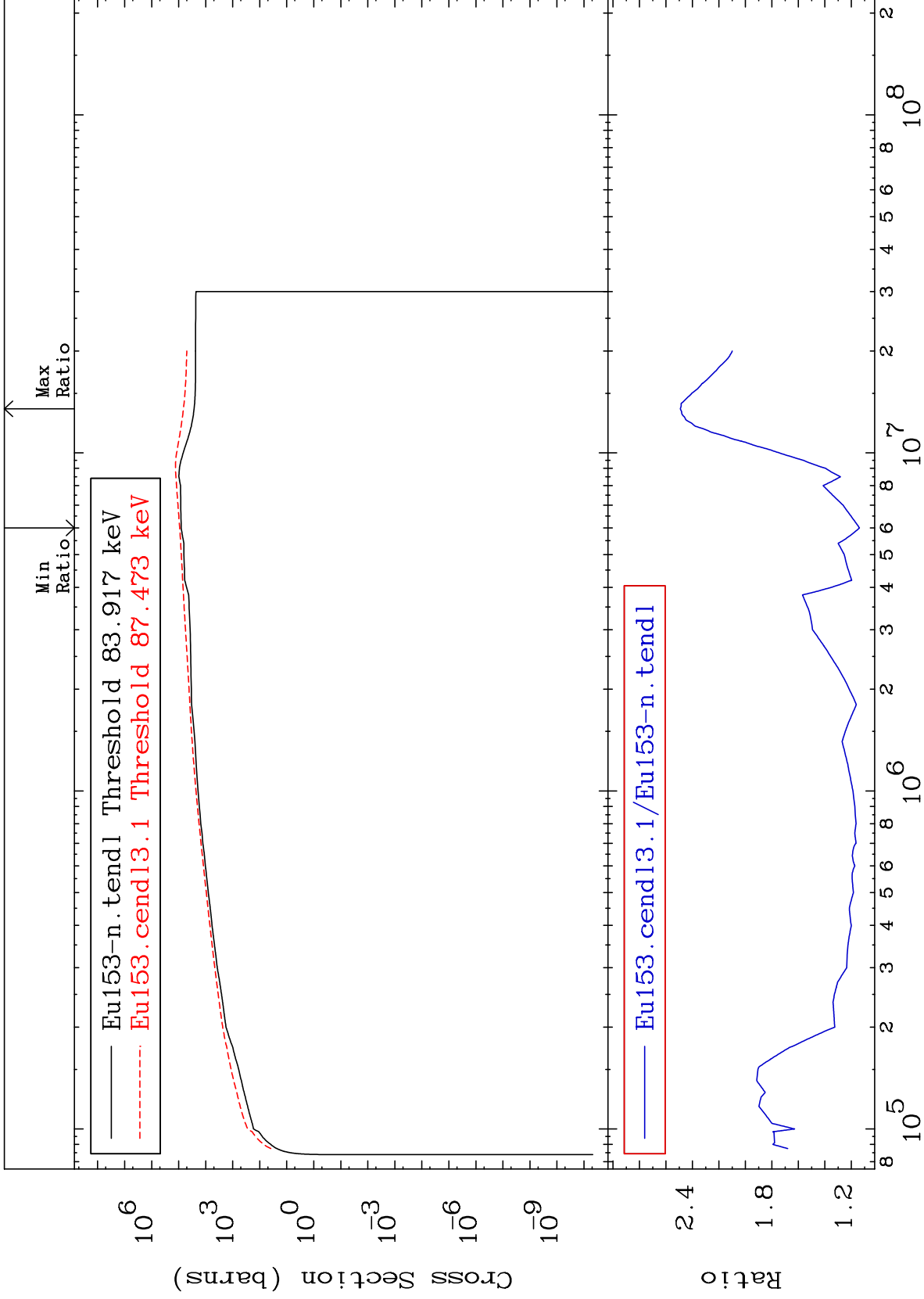




MAT 6331

Dpa inelastic (mt51-91)  
Cross Section

63-Eu-153  
13.92 To 149.2 %



41

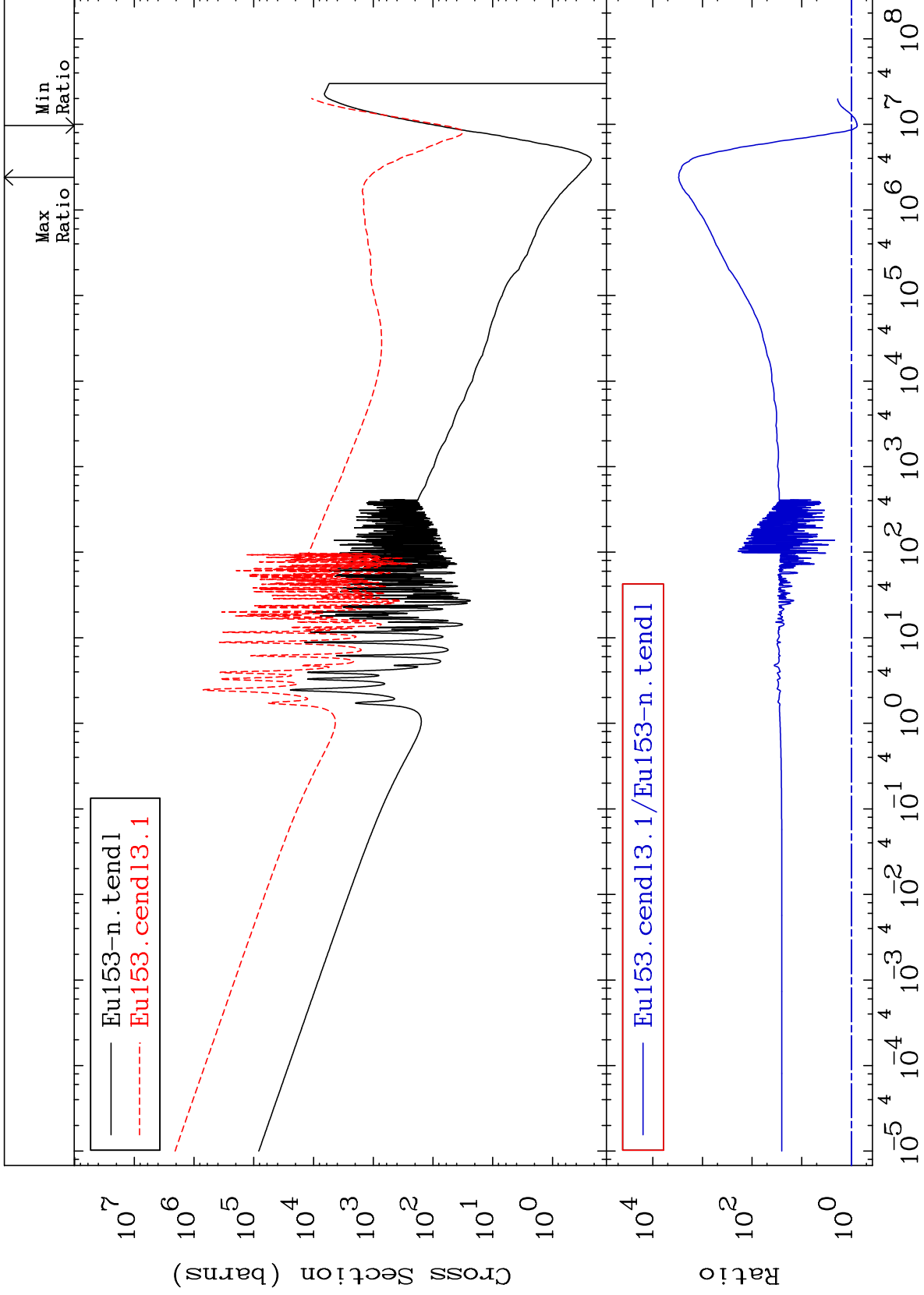
Incident Energy (eV)

63-Eu-153

MAT 6331

Dpa disappearance (mt102 -120)  
Cross Section

63-Eu-153  
-23.56 To 9999. %



42

Incident Energy (eV)

63-Eu-153