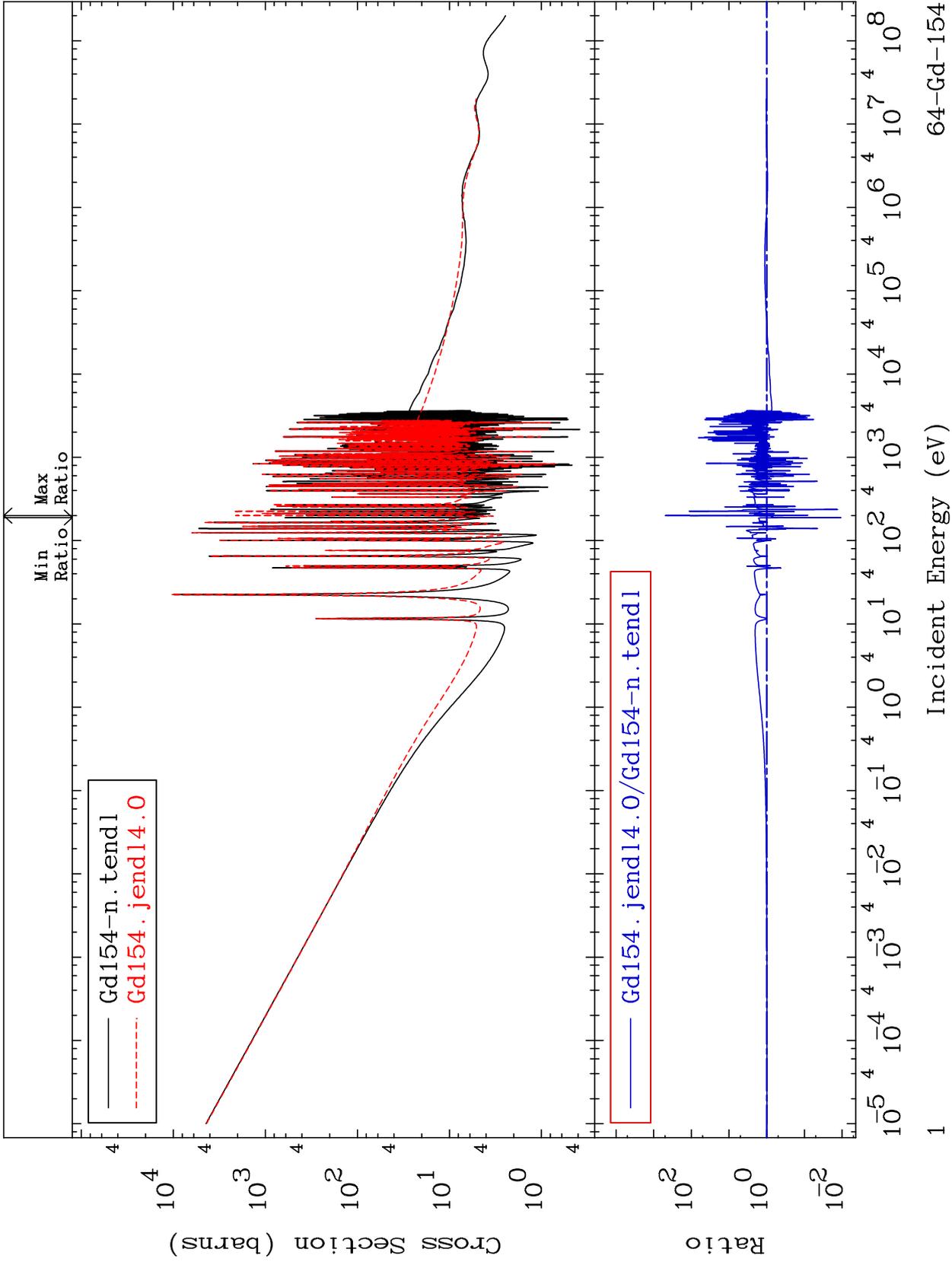


MAT 6431

Total  
Cross Section

64-Gd-154  
-98.92 To 9999. %



64-Gd-154

Incident Energy (eV)

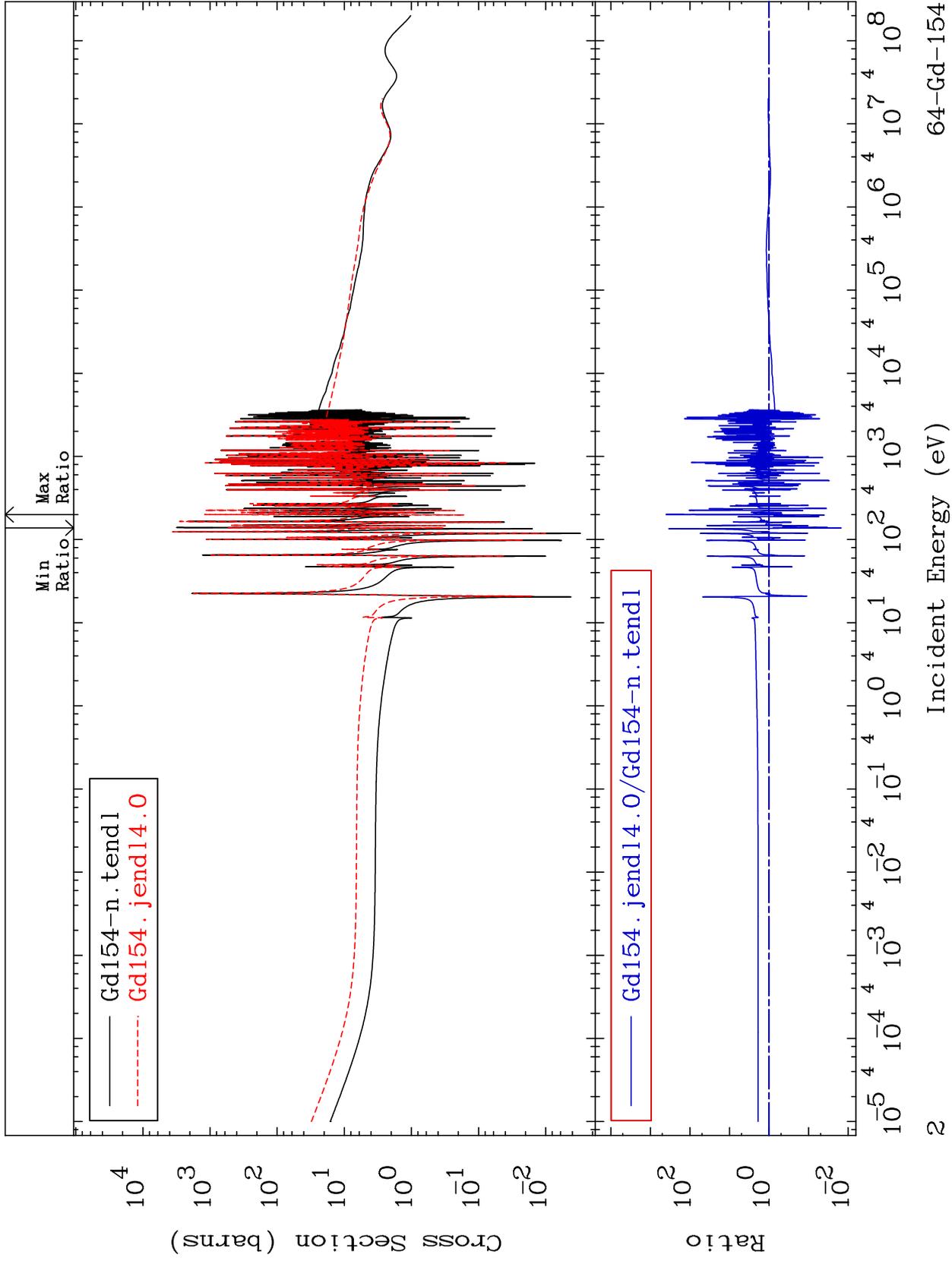
MAT 6431

Elastic

64-Gd-154

Cross Section

-98.48 To 9999. %



2

Incident Energy (eV)

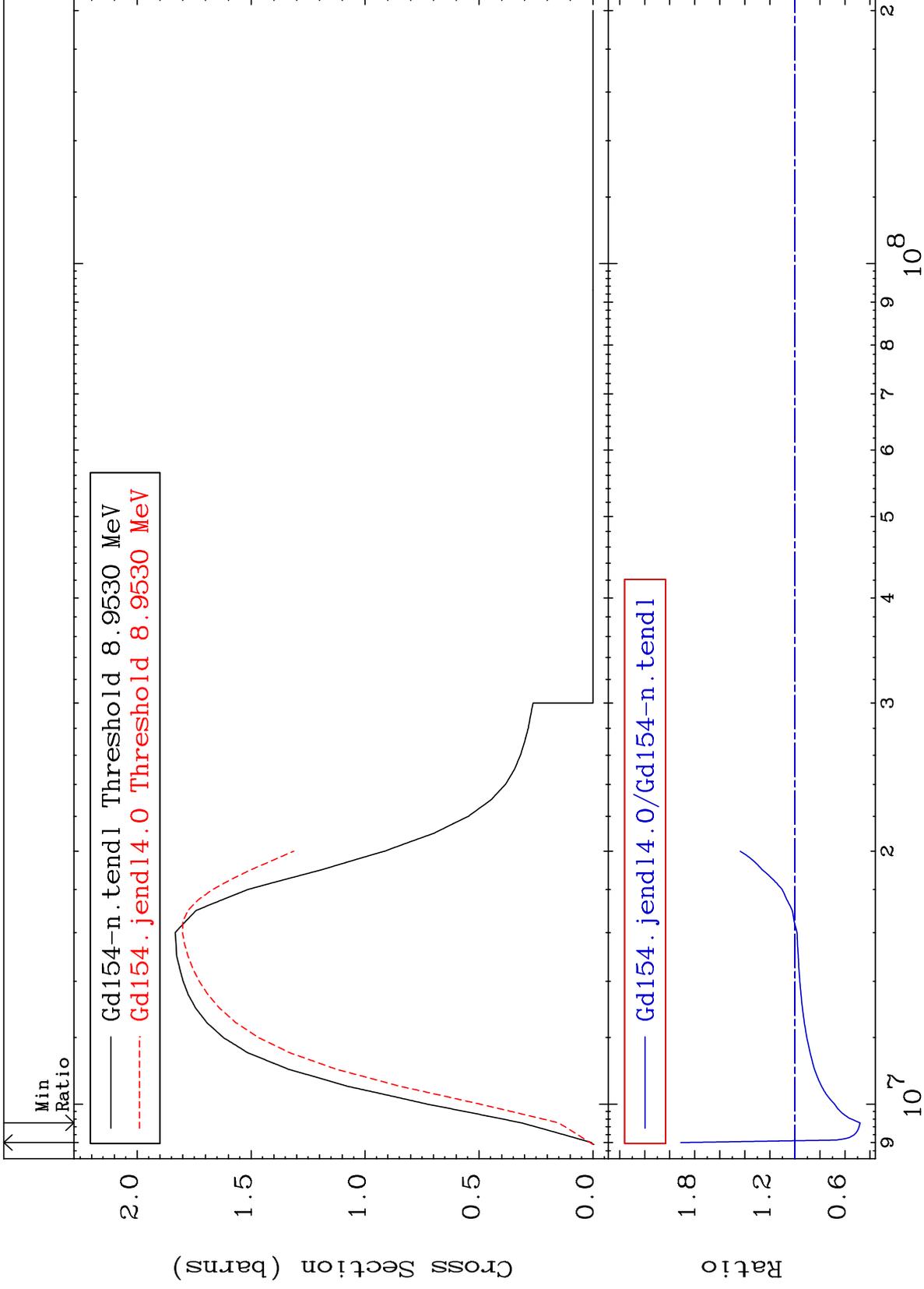
64-Gd-154



MAT 6431

(n,2n)  
Cross Section

64-Gd-154  
-52.08 To 91.20 %

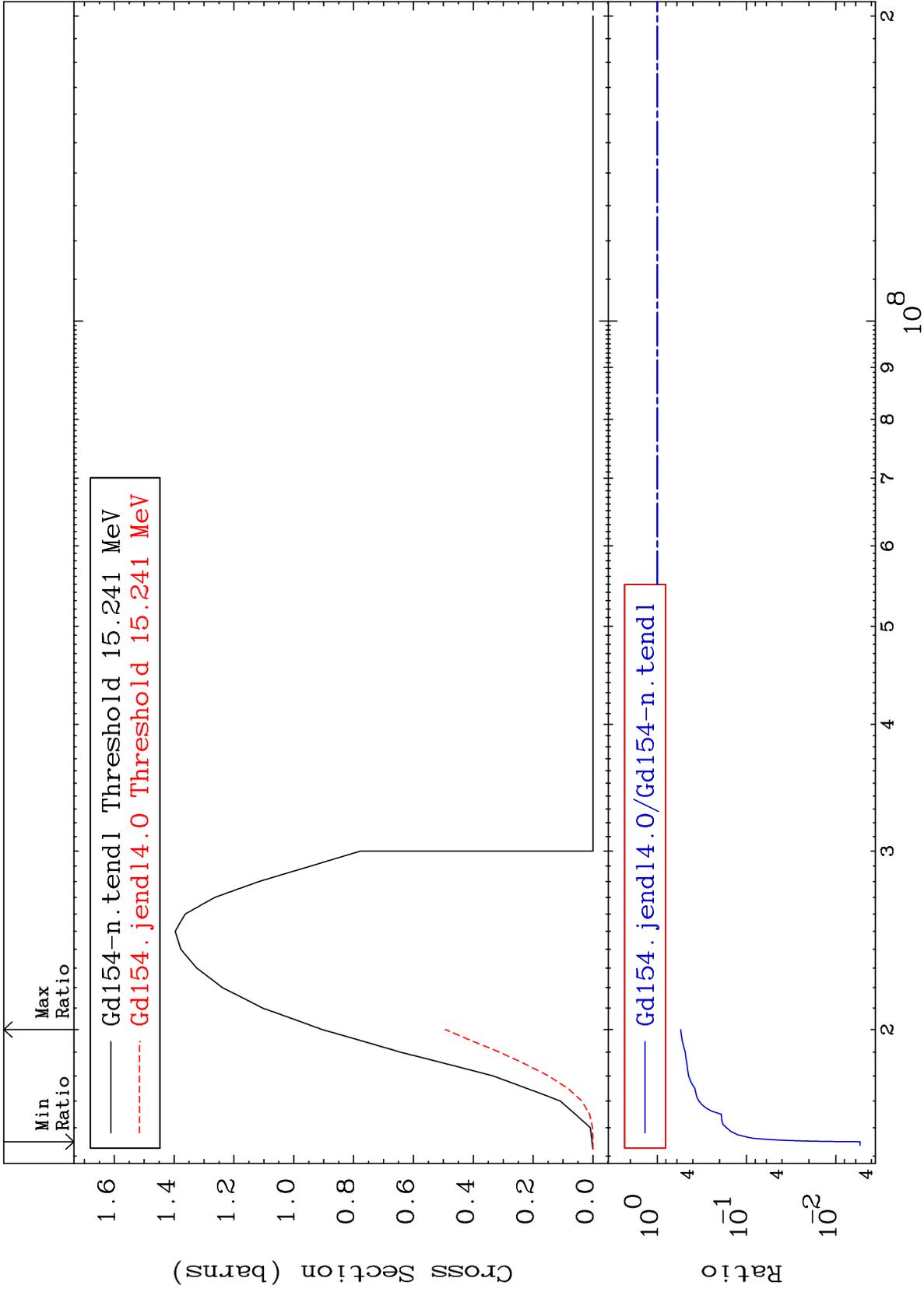


64-Gd-154

64-Gd-154

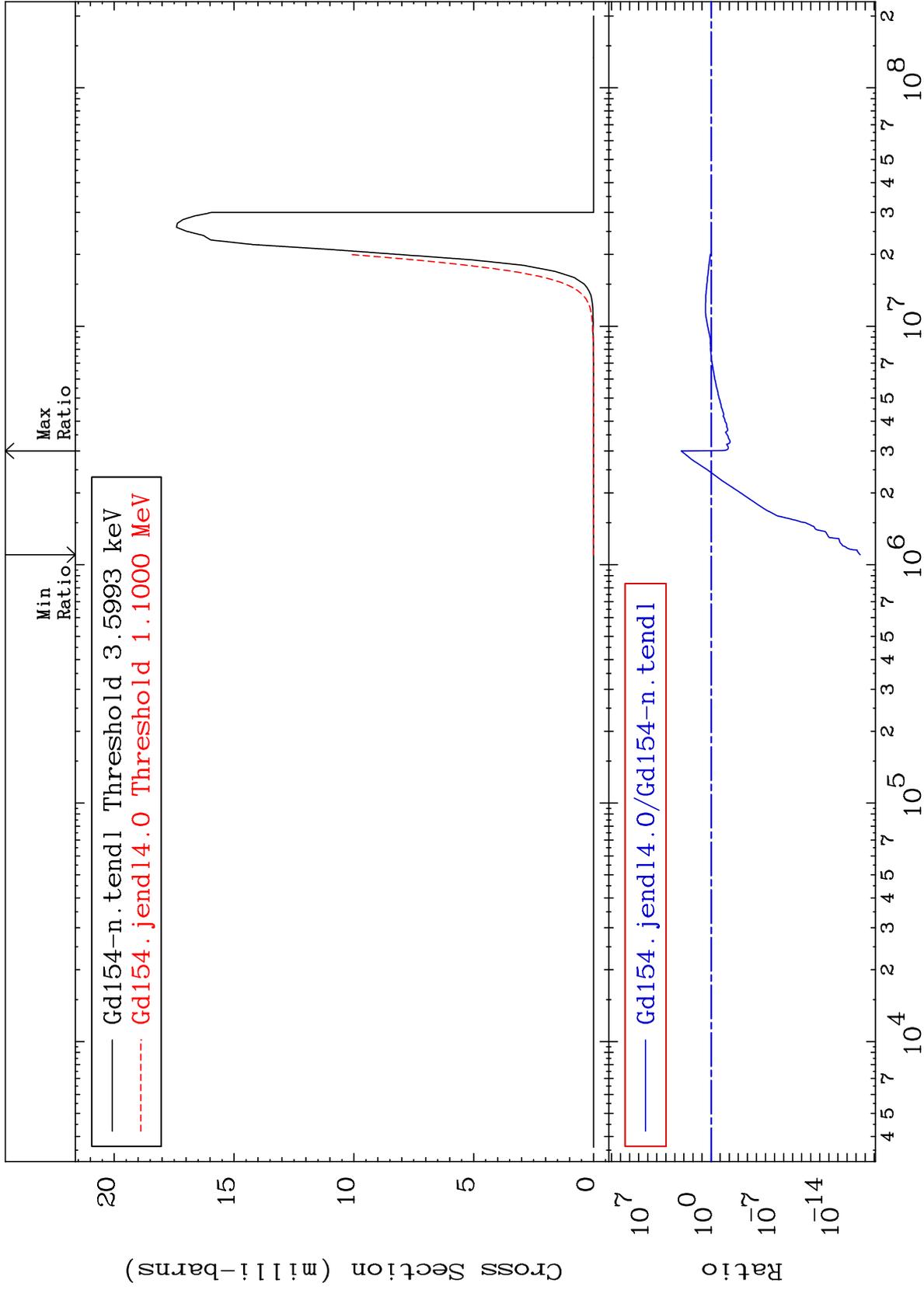
Cross Section

-99.47 To -45.49%



MAT 6431

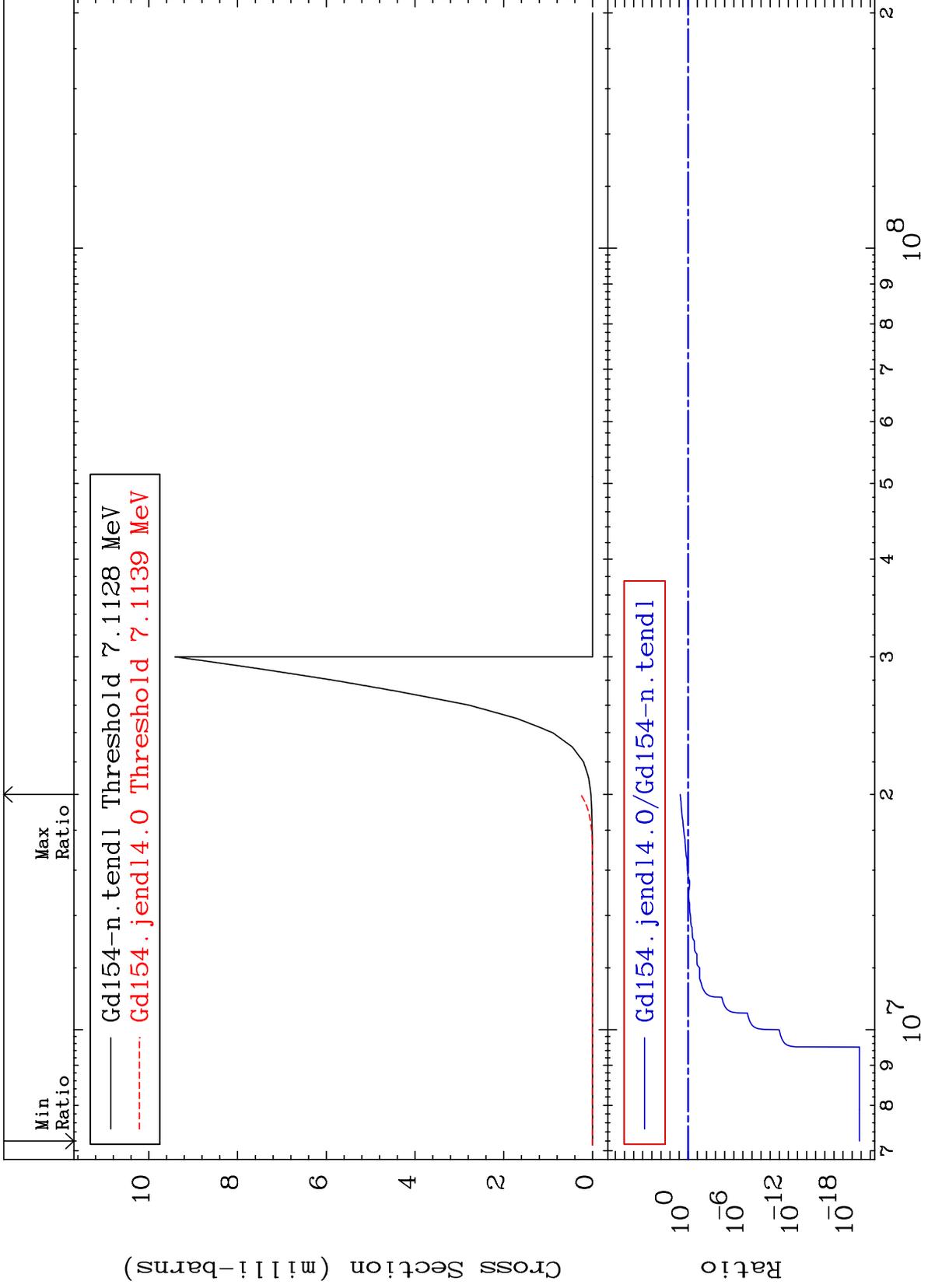
(n, n')  $\alpha$   
Cross Section  
64-Gd-154  
-100.0 To 9999. %



MAT 6431

(n,2n)  $\alpha$   
Cross Section

64-Gd-154  
-100.0 To 651.9 %



7

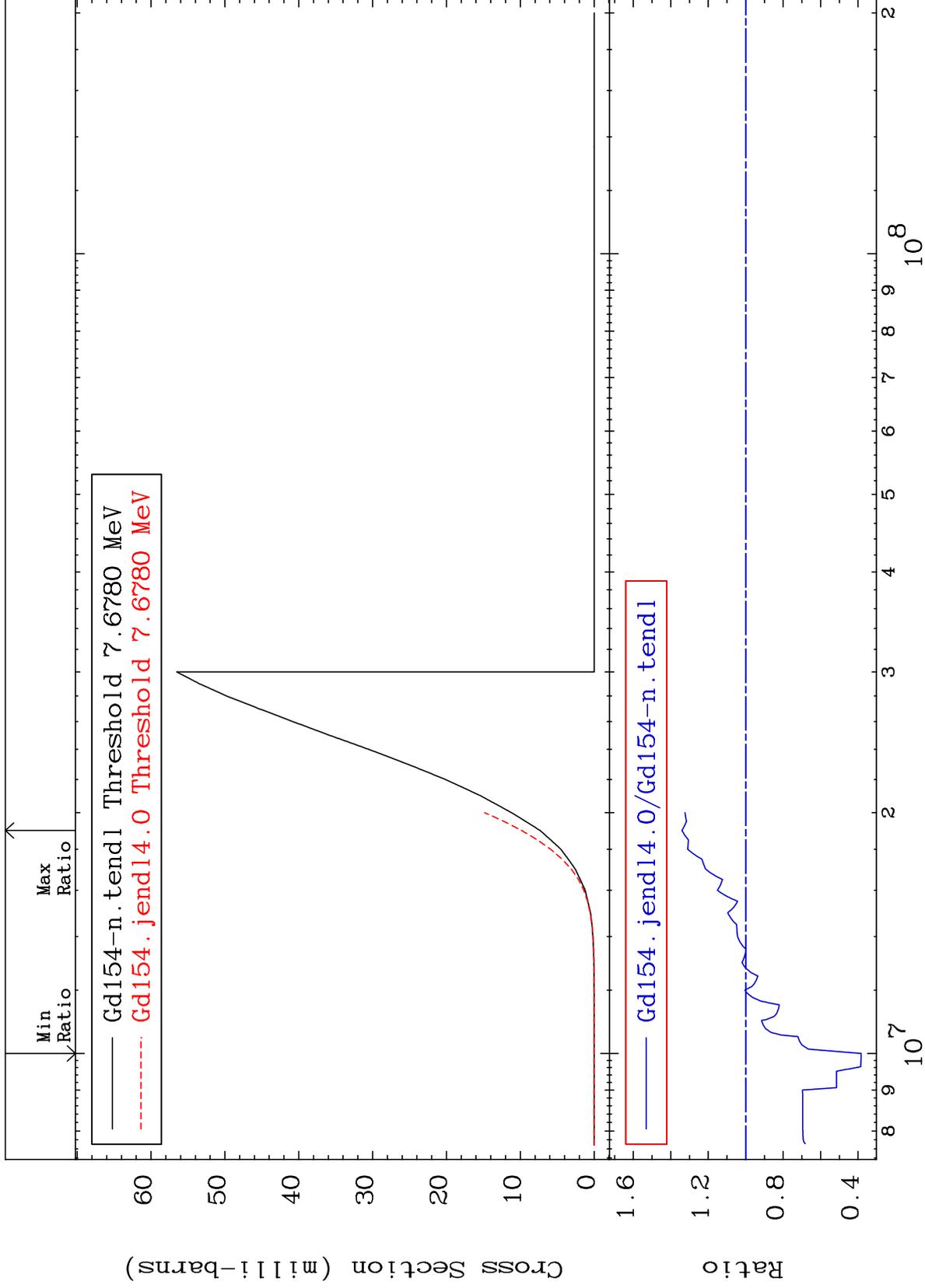
64-Gd-154

64-Gd-154

MAT 6431

(n,n') p  
Cross Section

64-Gd-154  
-61.64 To 34.06 %



8

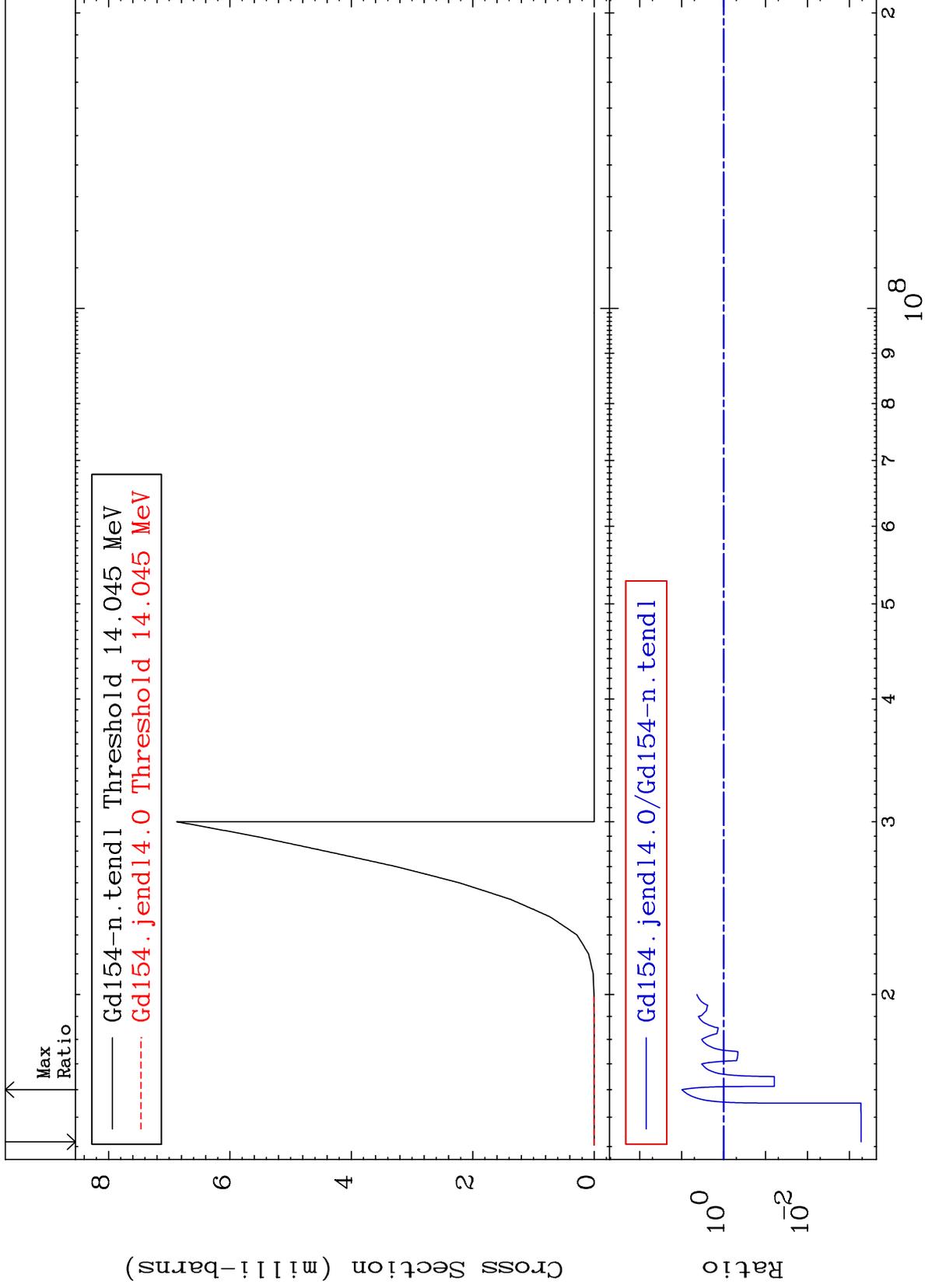
Incident Energy (eV)

64-Gd-154

MAT 6431

(n,n') d  
Cross Section

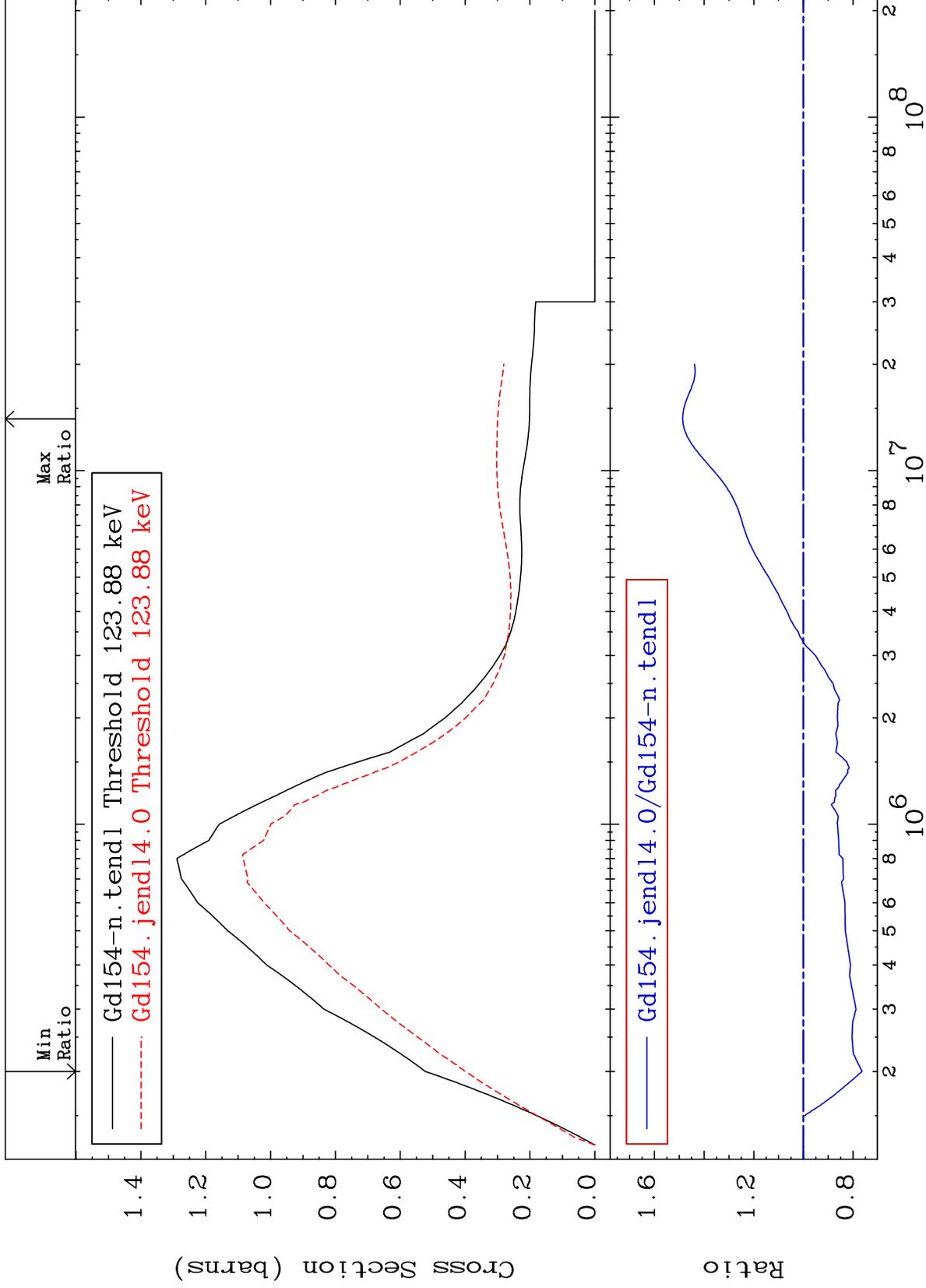
64-Gd-154  
-99.95 To 890.8 %



MAT 6431

123.1 keV (n,n') Level  
Cross Section

64-Gd-154  
-23.62 To 48.64 %

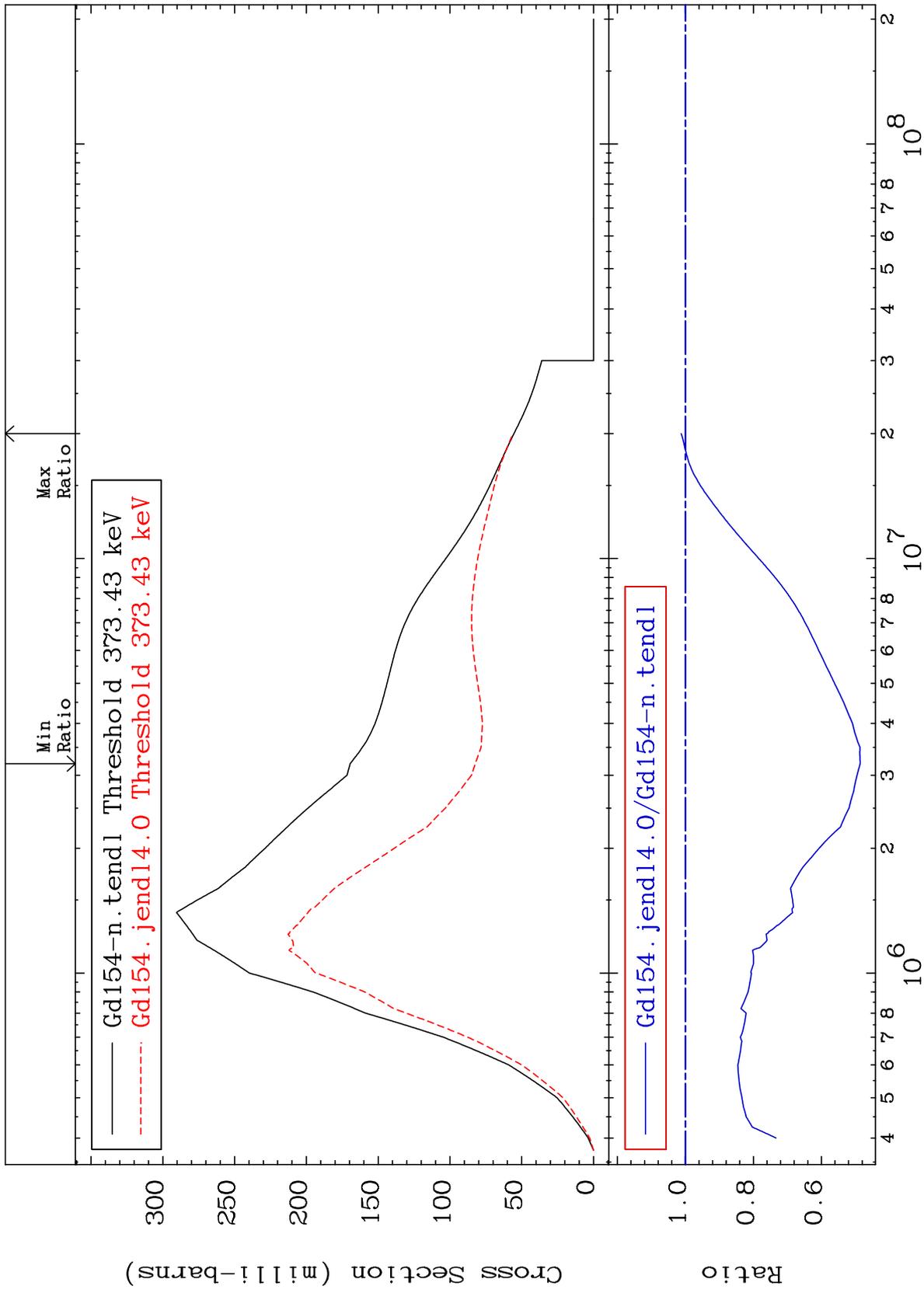


10

Incident Energy (eV)

64-Gd-154

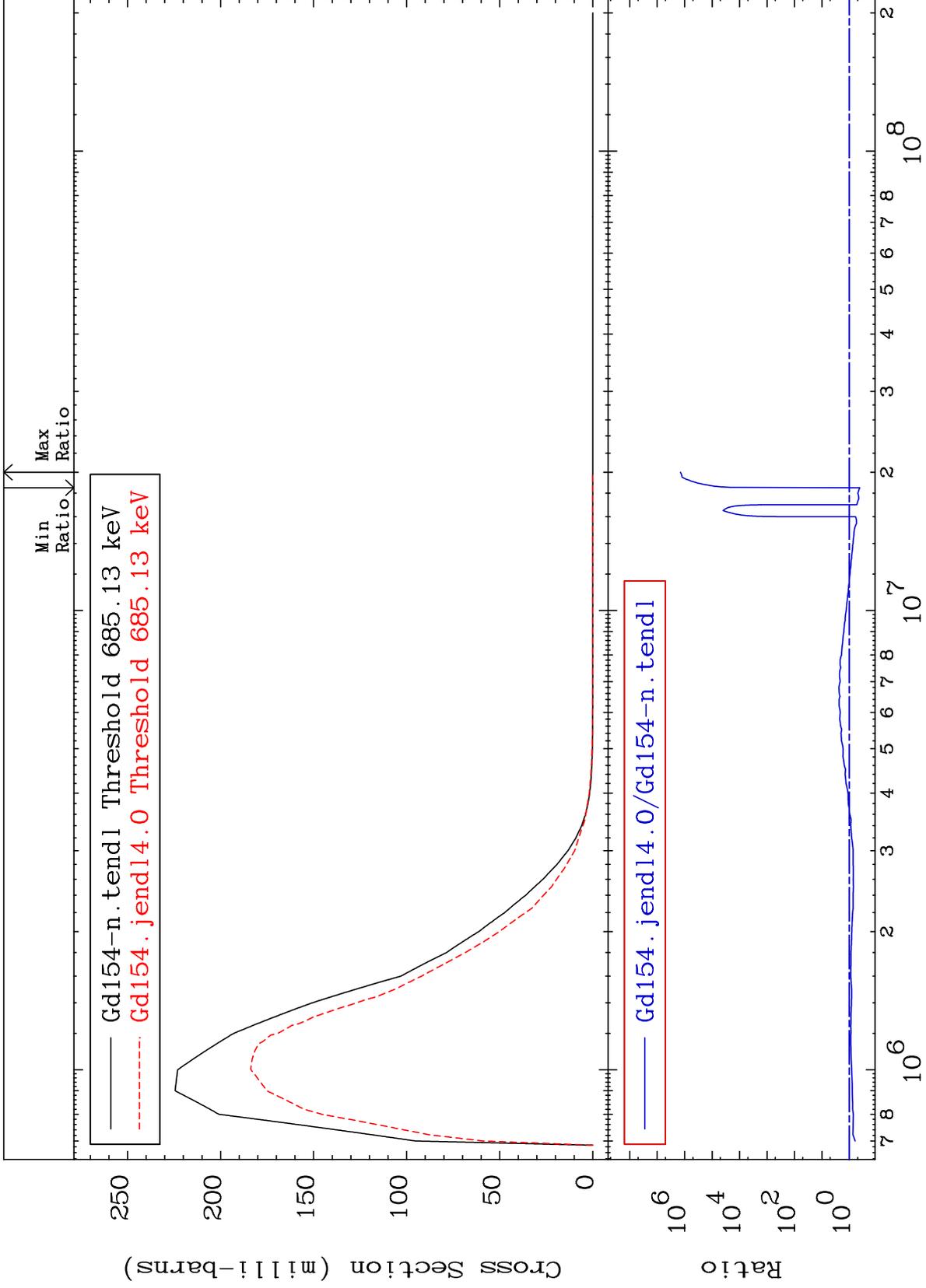
MAT 6431 64-Gd-154  
 371.0 keV (n,n') Level -51.41 To 1.240 %  
 Cross Section



MAT 6431

680.7 keV (n,n') Level  
Cross Section

64-Gd-154  
-58.13 To 9999. %



12

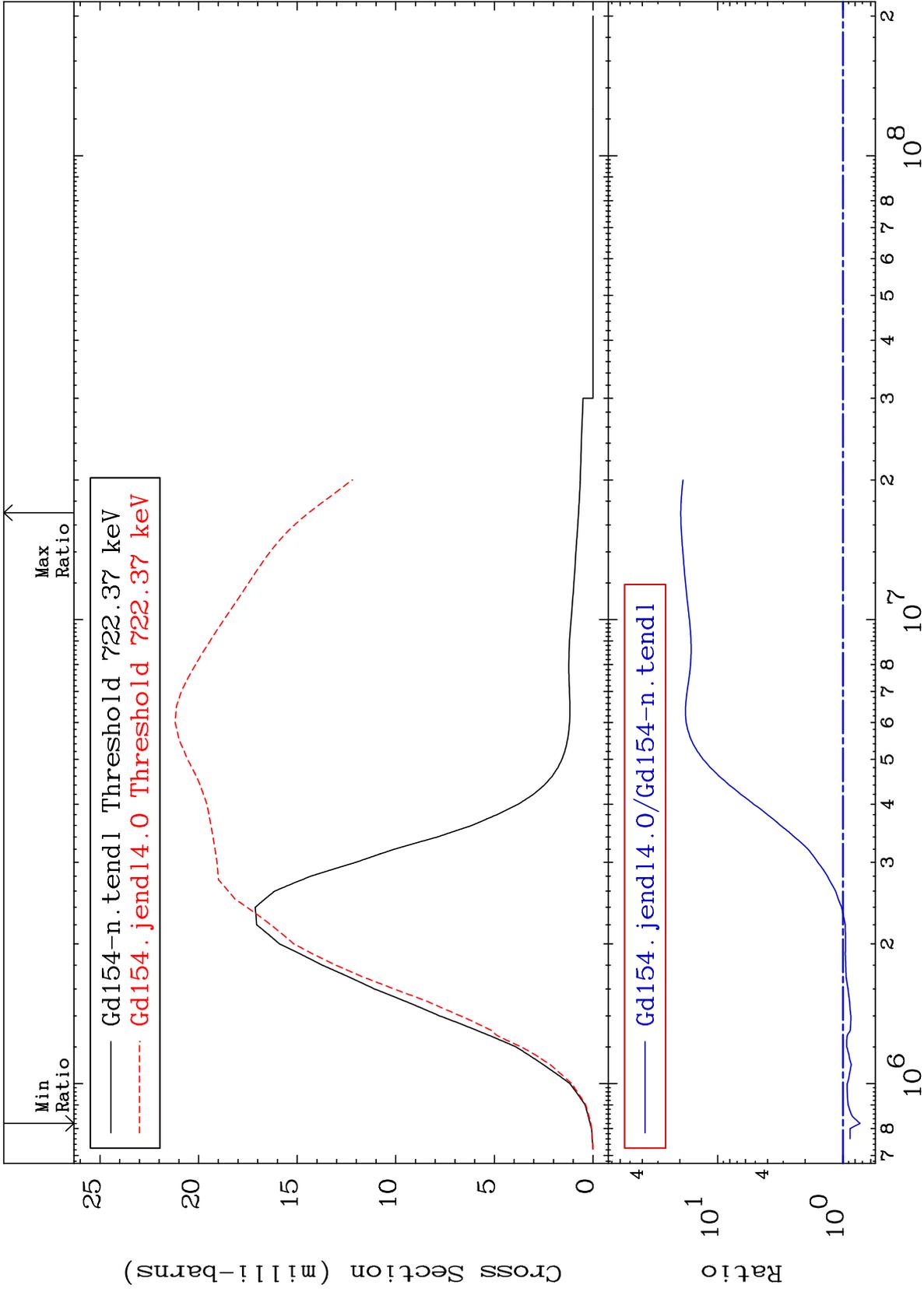
Incident Energy (eV)

64-Gd-154

MAT 6431

717.7 keV (n,n') Level  
Cross Section

64-Gd-154  
-27.04 To 1870. %



13

Incident Energy (eV)

64-Gd-154

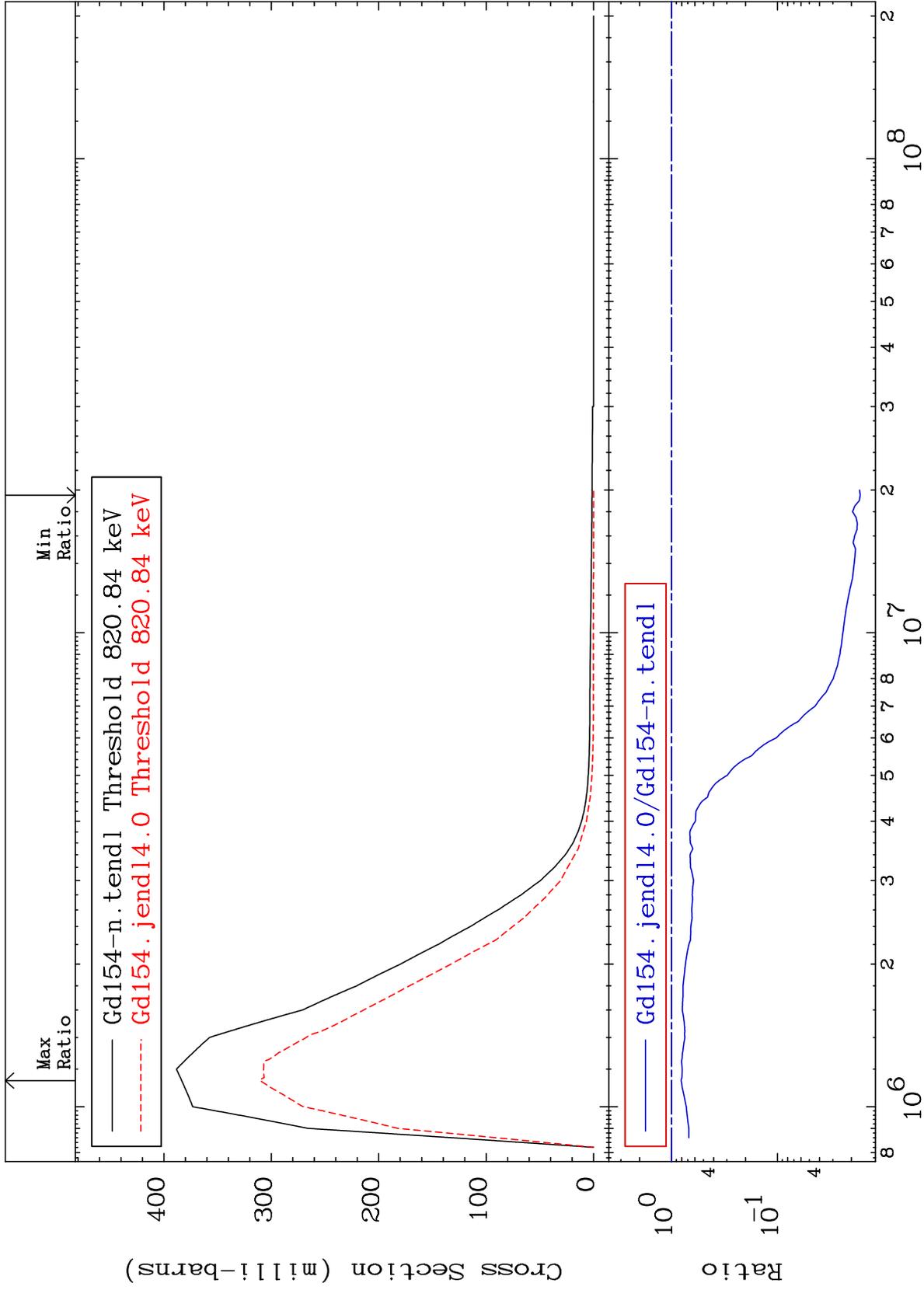
MAT 6431

815.5 keV (n,n') Level

64-Gd-154

Cross Section

-98.35 To -19.05%



14

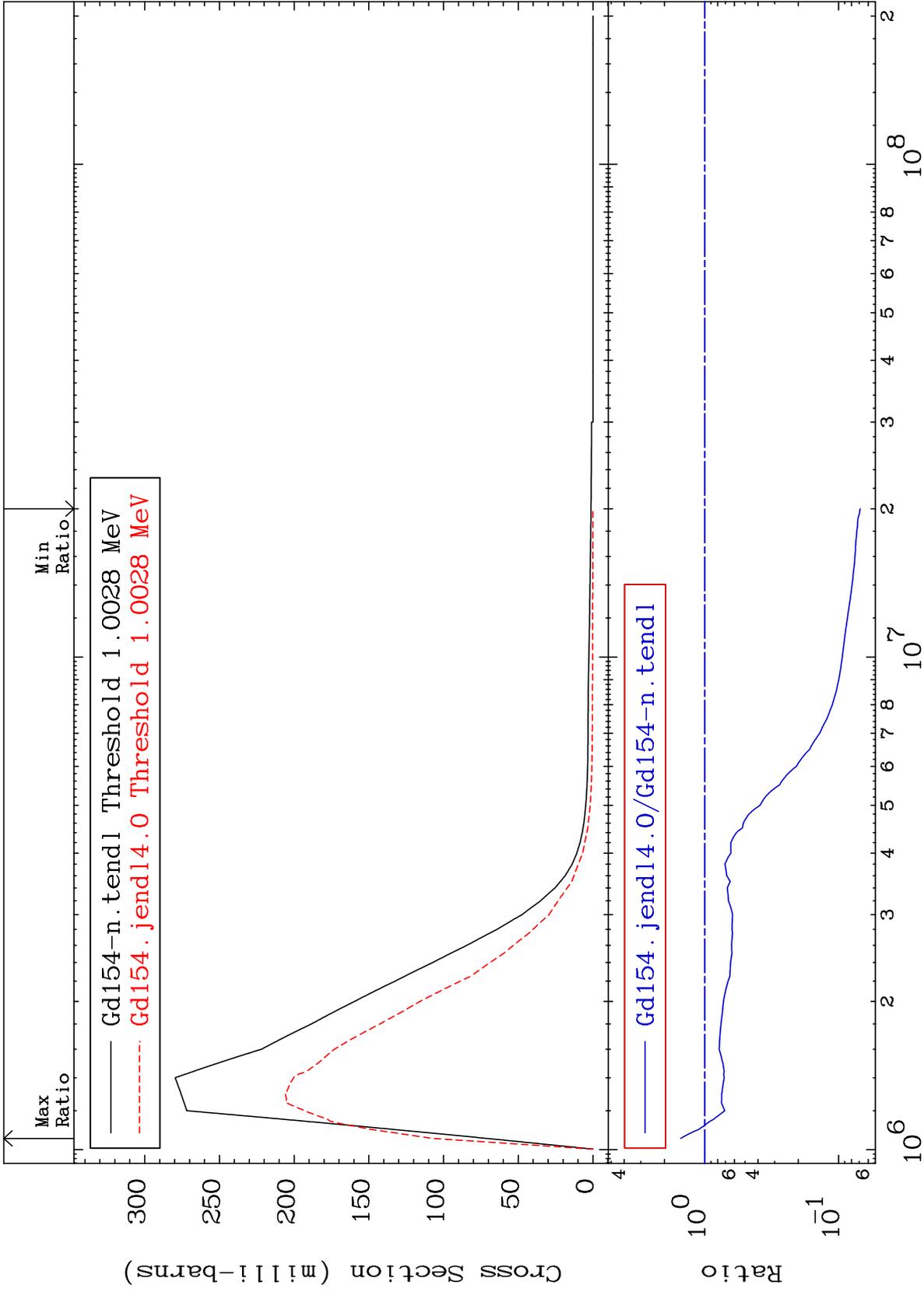
Incident Energy (eV)

64-Gd-154

MAT 6431

996.3 keV (n,n') Level  
Cross Section

64-Gd-154  
-93.09 To 51.16 %



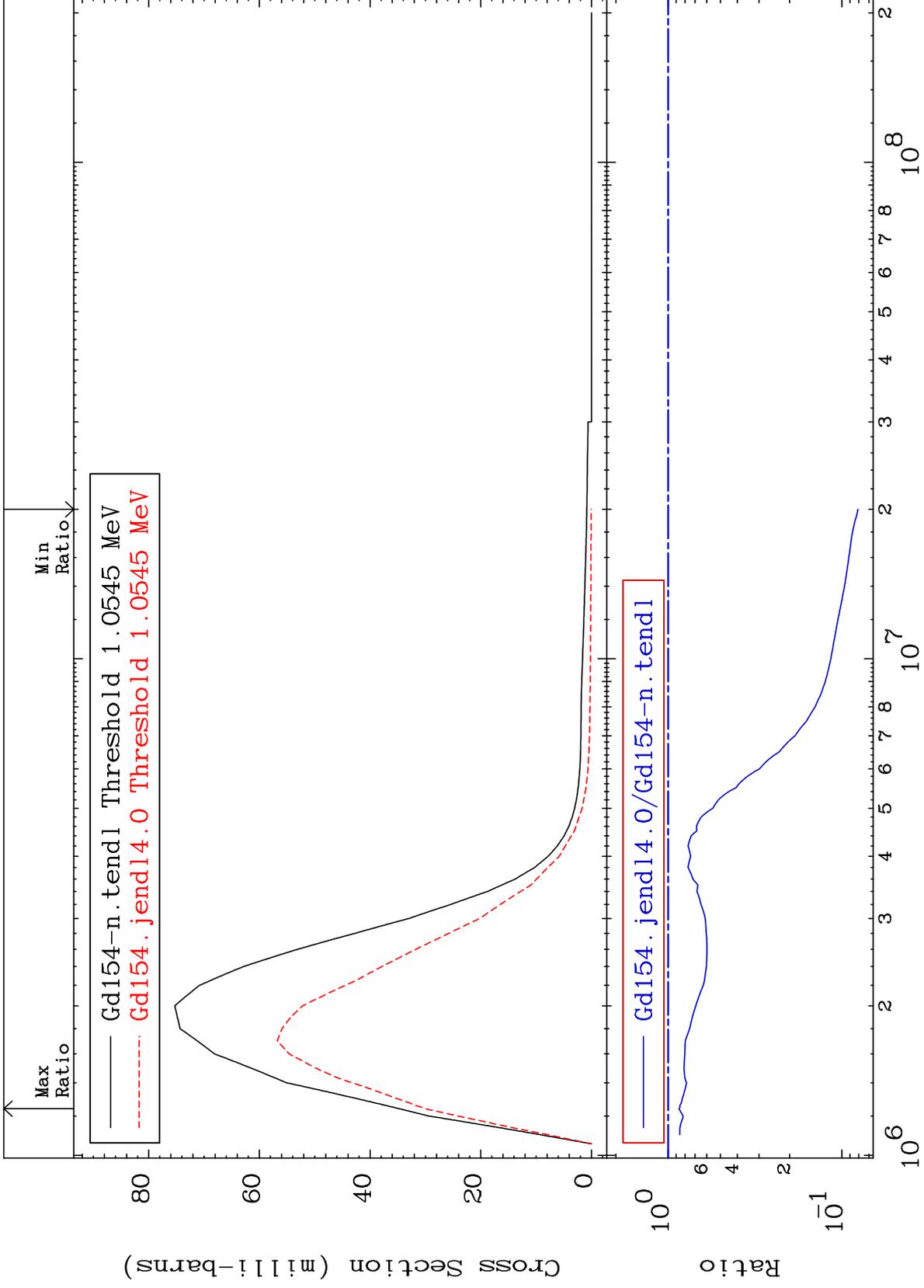
Incident Energy (eV)

64-Gd-154

MAT 6431

1.048 MeV (n,n') Level  
Cross Section

64-Gd-154  
-91.91 To -13.47%



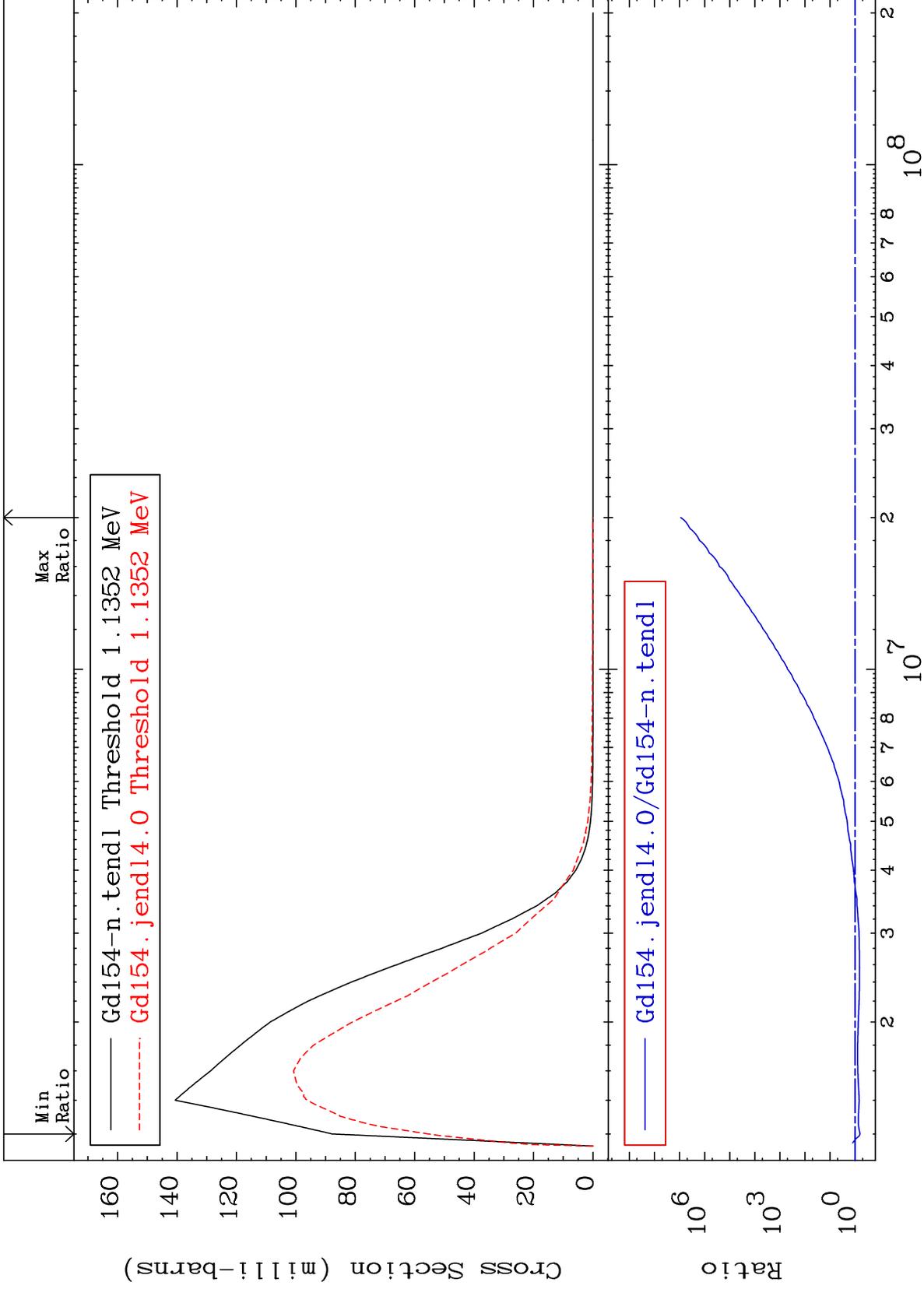
Incident Energy (eV)

64-Gd-154

MAT 6431

1.128 MeV (n,n') Level  
Cross Section

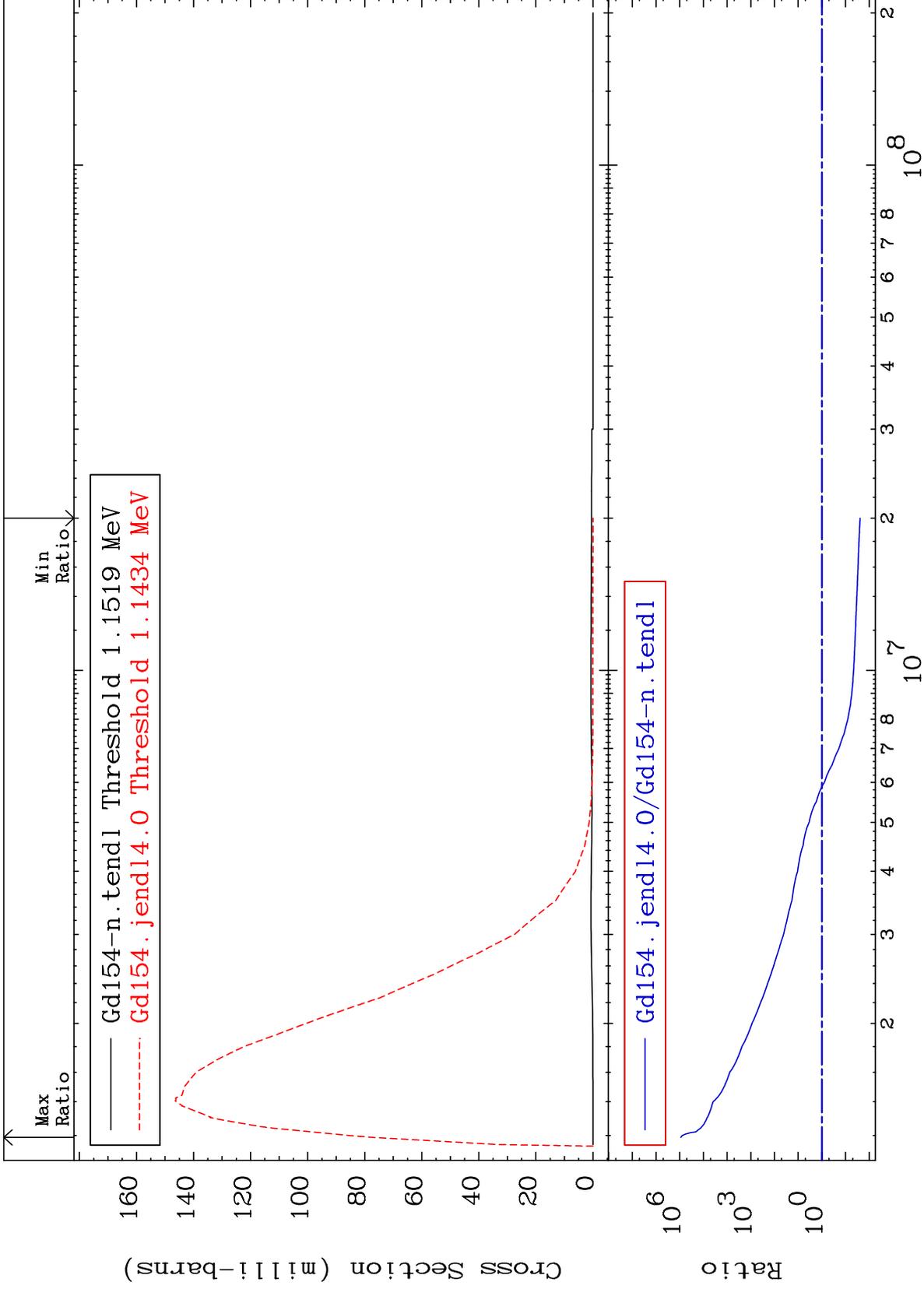
64-Gd-154  
-36.81 To 9999. %



17

Incident Energy (eV)

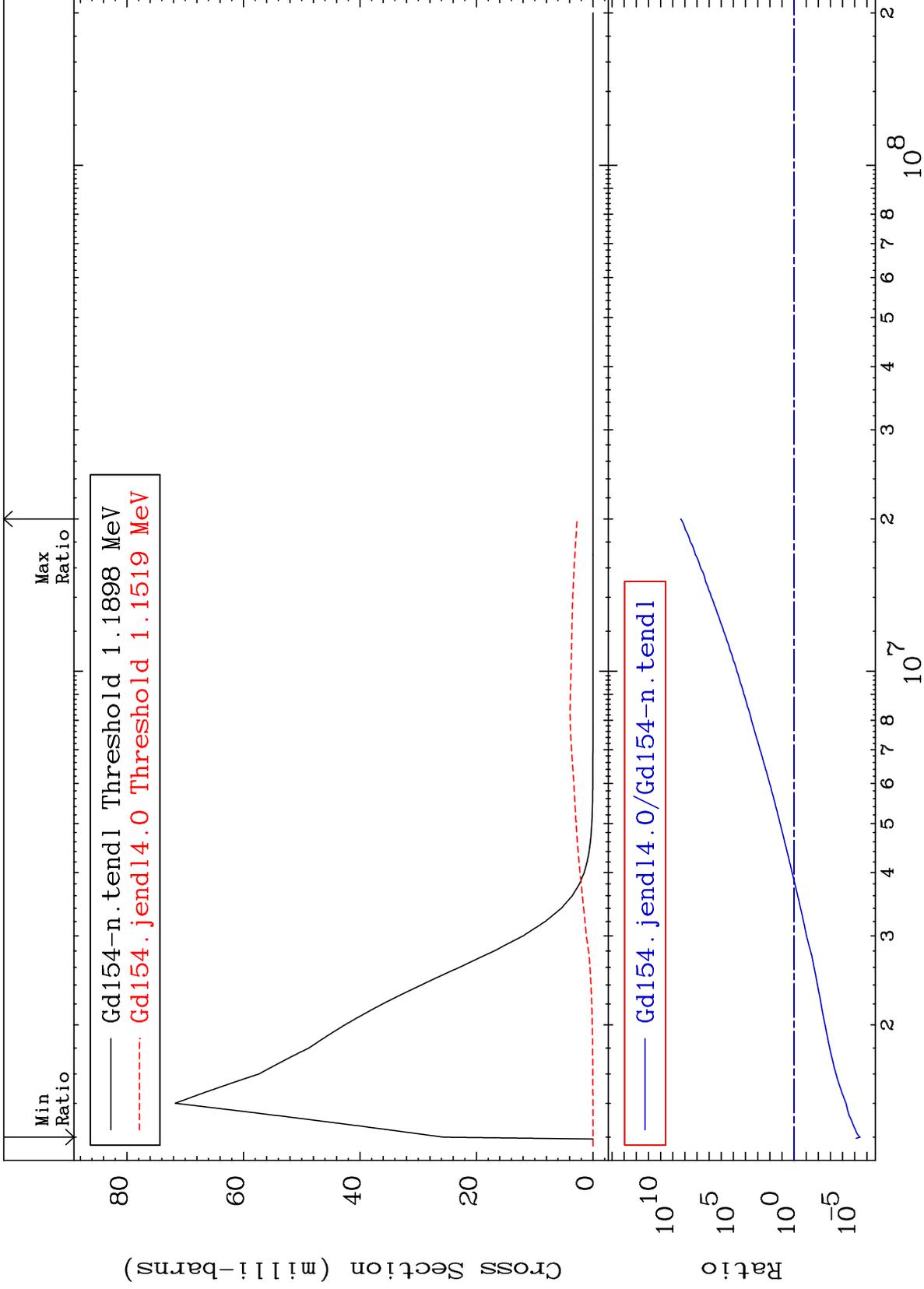
64-Gd-154



MAT 6431

1.182 MeV (n,n') Level  
Cross Section

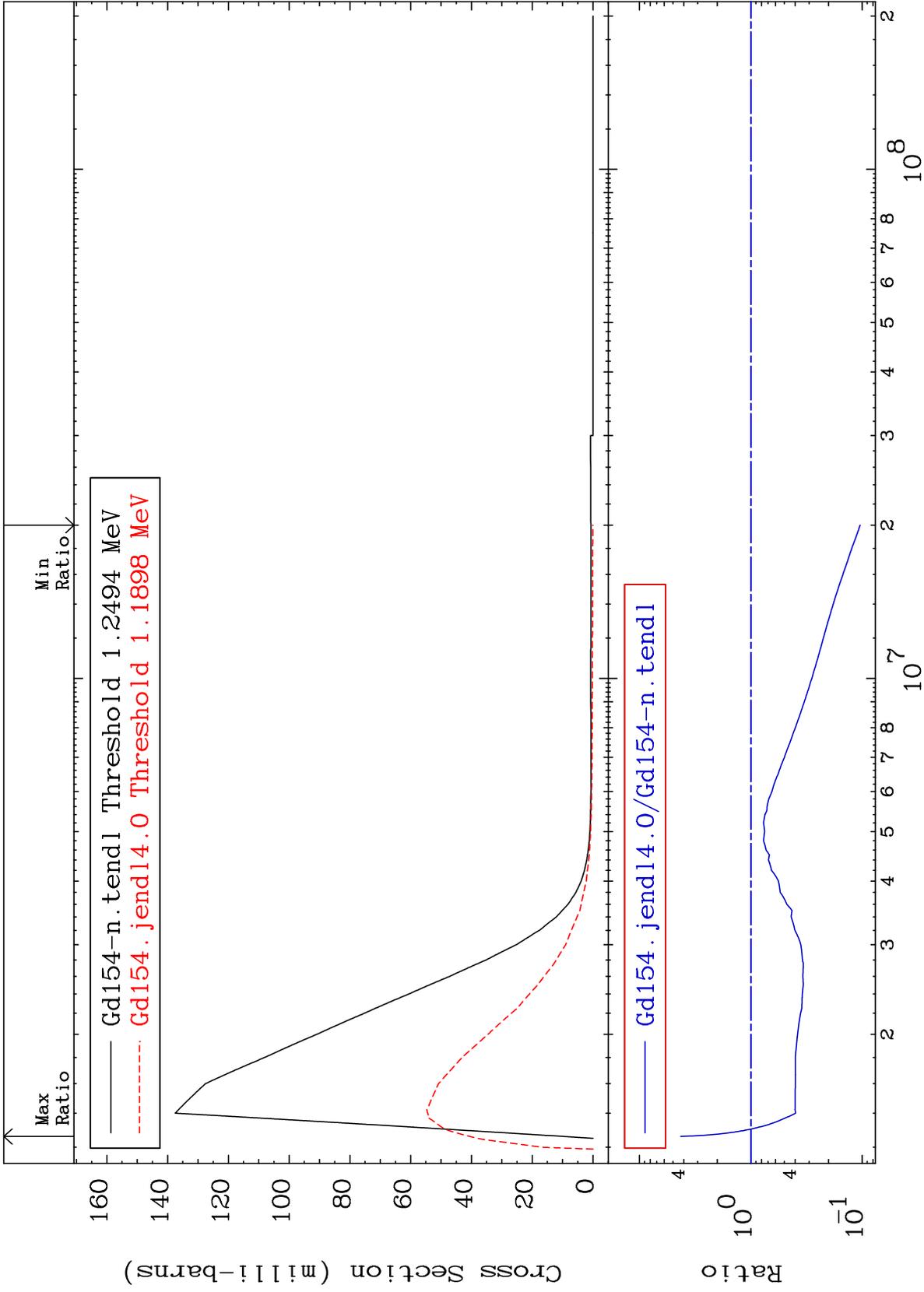
64-Gd-154  
-100.0 To 9999. %



MAT 6431

1.241 MeV (n,n') Level  
Cross Section

64-Gd-154  
-89.56 To 325.7 %



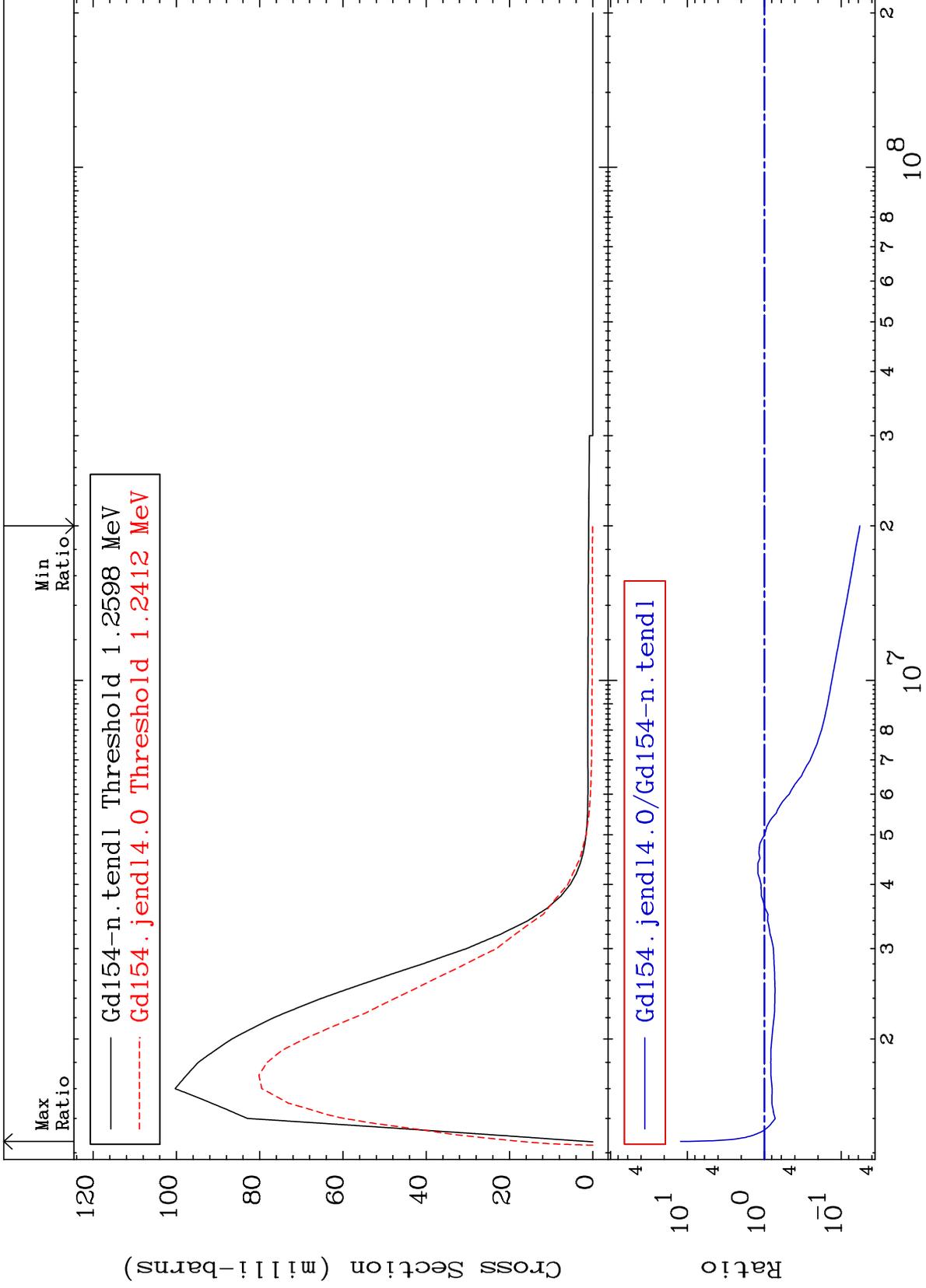
20

64-Gd-154

MAT 6431

1.252 MeV (n,n') Level  
Cross Section

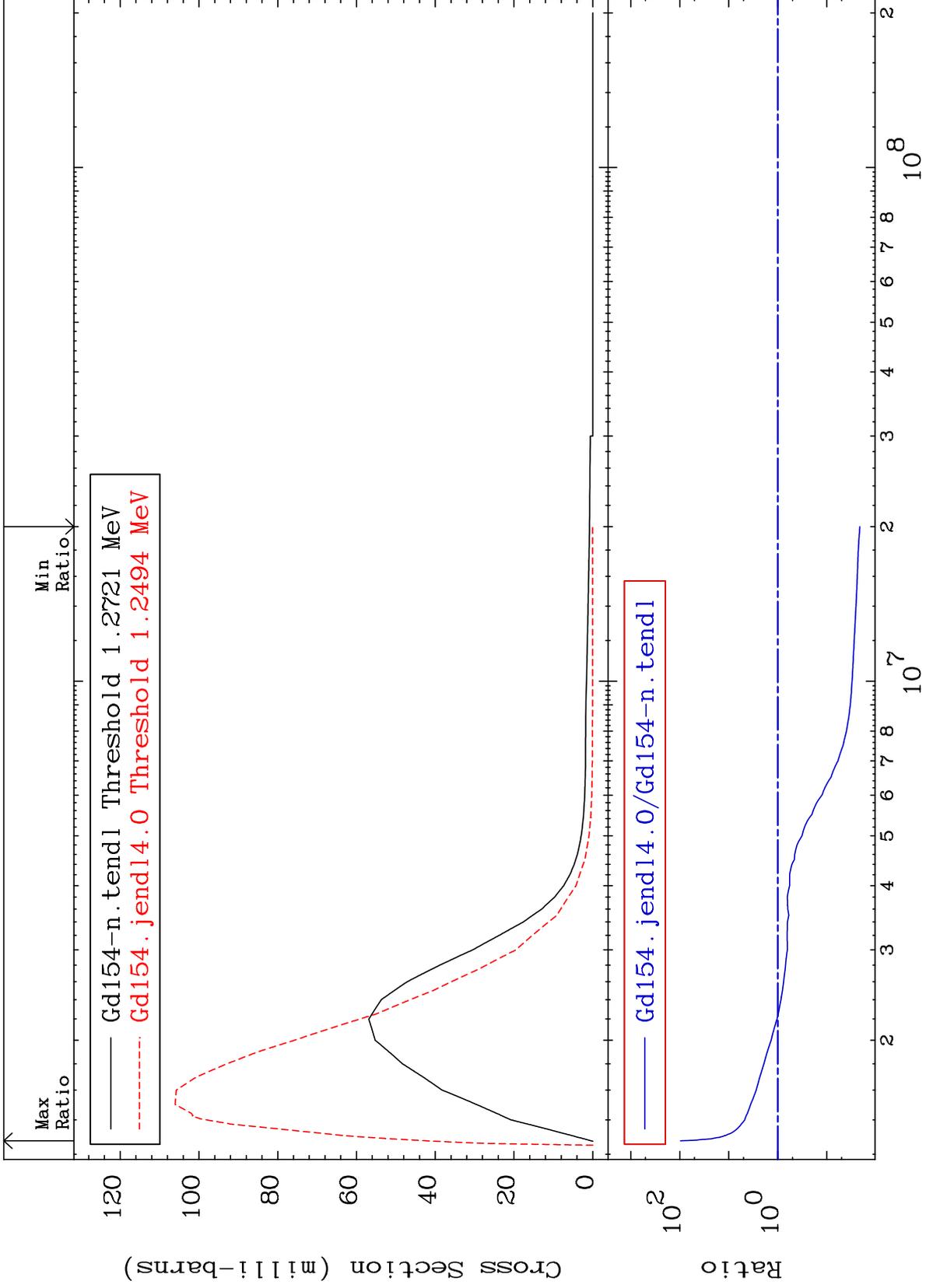
64-Gd-154  
-94.26 To 1130. %



MAT 6431

1.264 MeV (n,n') Level  
Cross Section

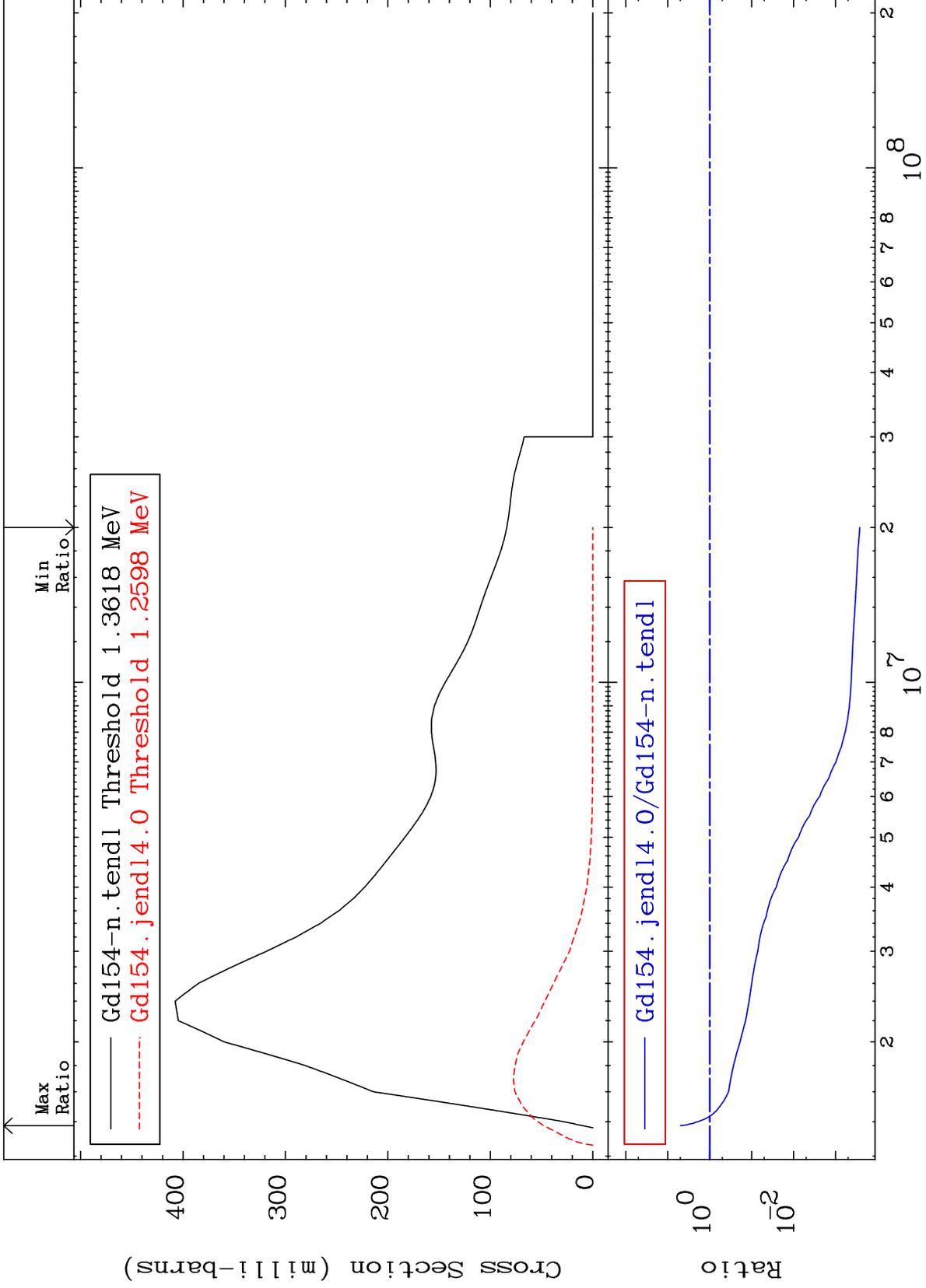
64-Gd-154  
-97.87 To 9549. %



MAT 6431

1.353 MeV (n,n') Level  
Cross Section

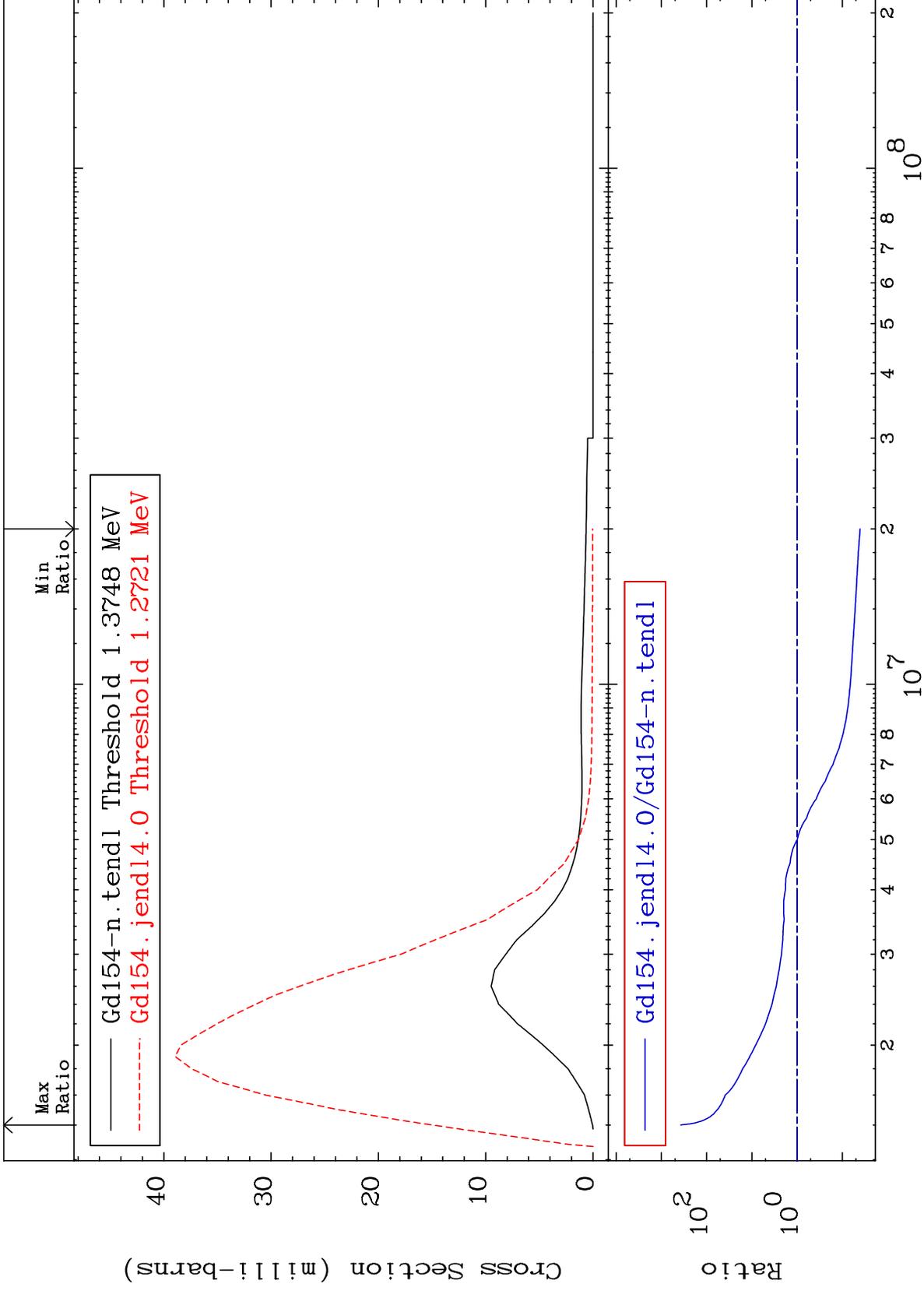
64-Gd-154  
-99.97 To 394.2 %



MAT 6431

1.366 MeV (n,n') Level  
Cross Section

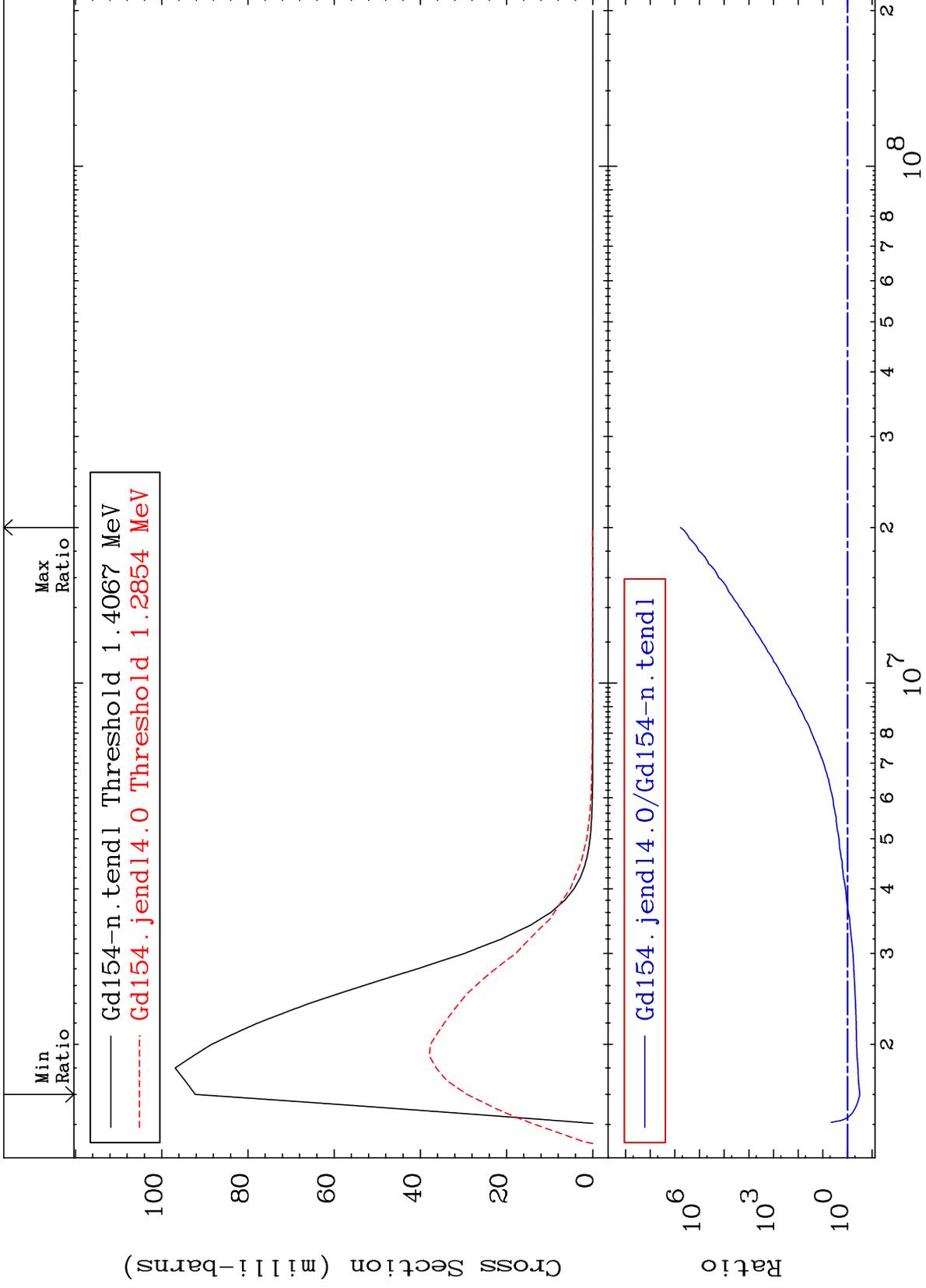
64-Gd-154  
-95.96 To 9999. %



MAT 6431

1.398 MeV (n,n') Level  
Cross Section

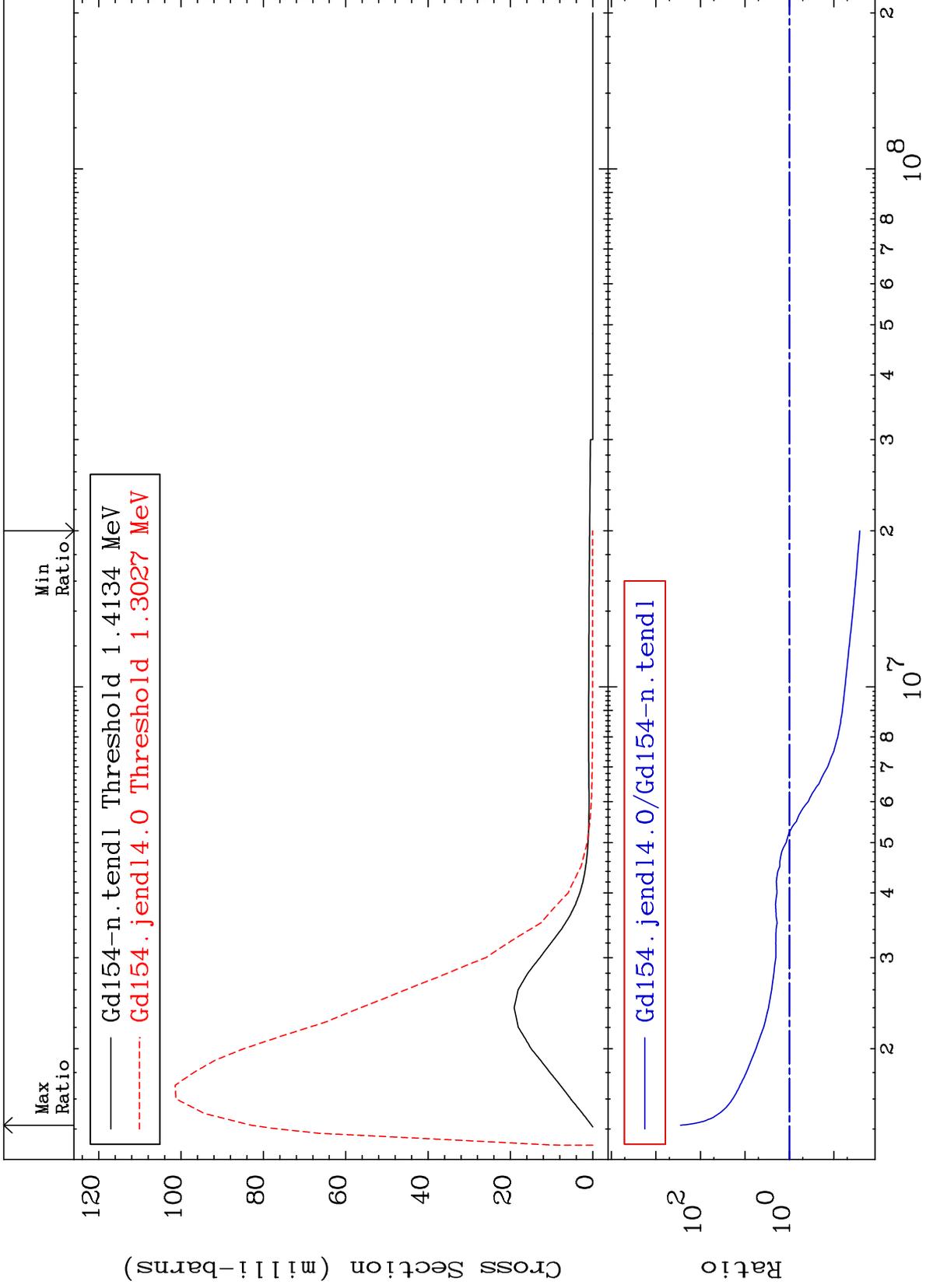
64-Gd-154  
-68.36 To 9999. %



MAT 6431

1.404 MeV (n,n') Level  
Cross Section

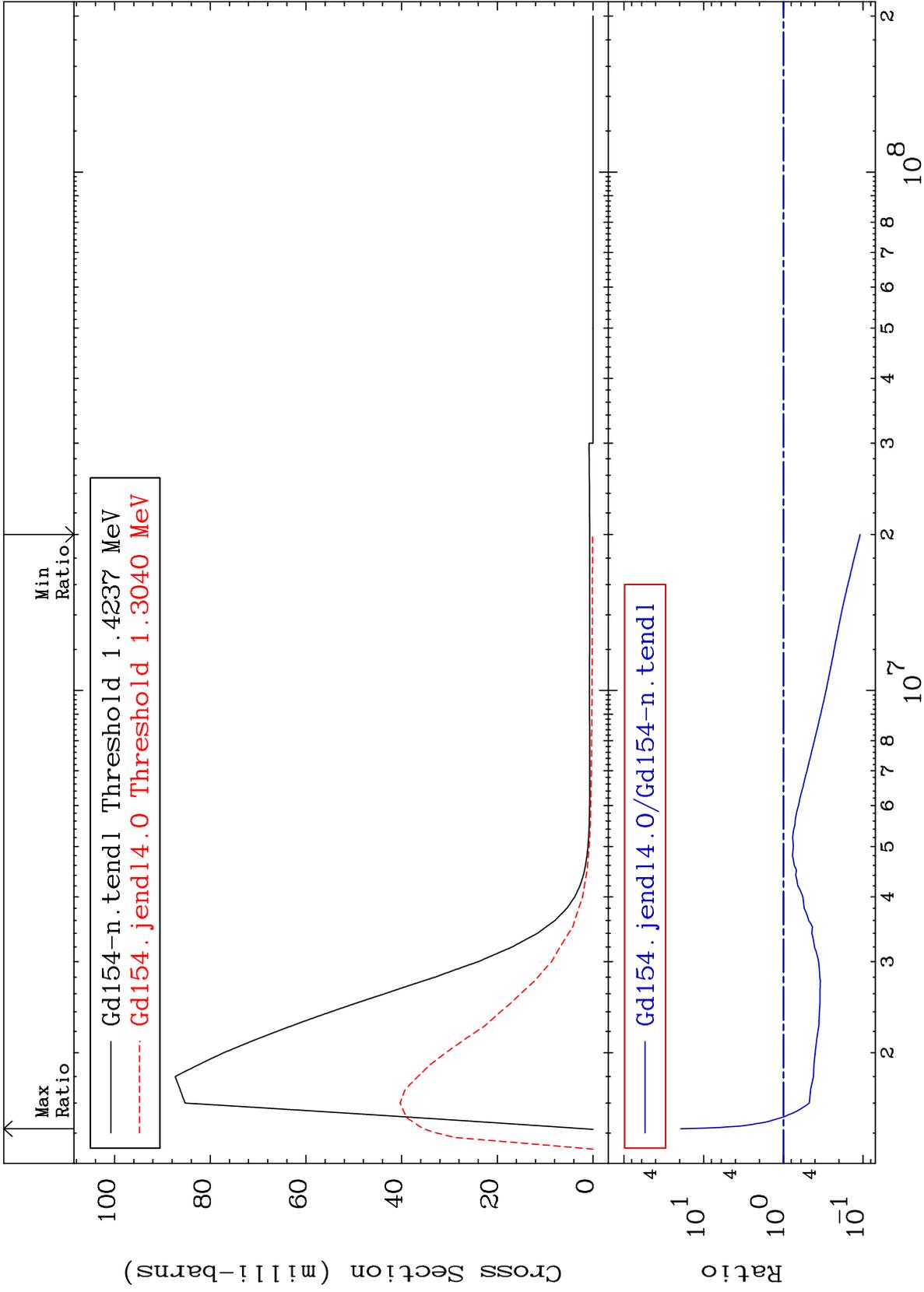
64-Gd-154  
-97.37 To 9999. %

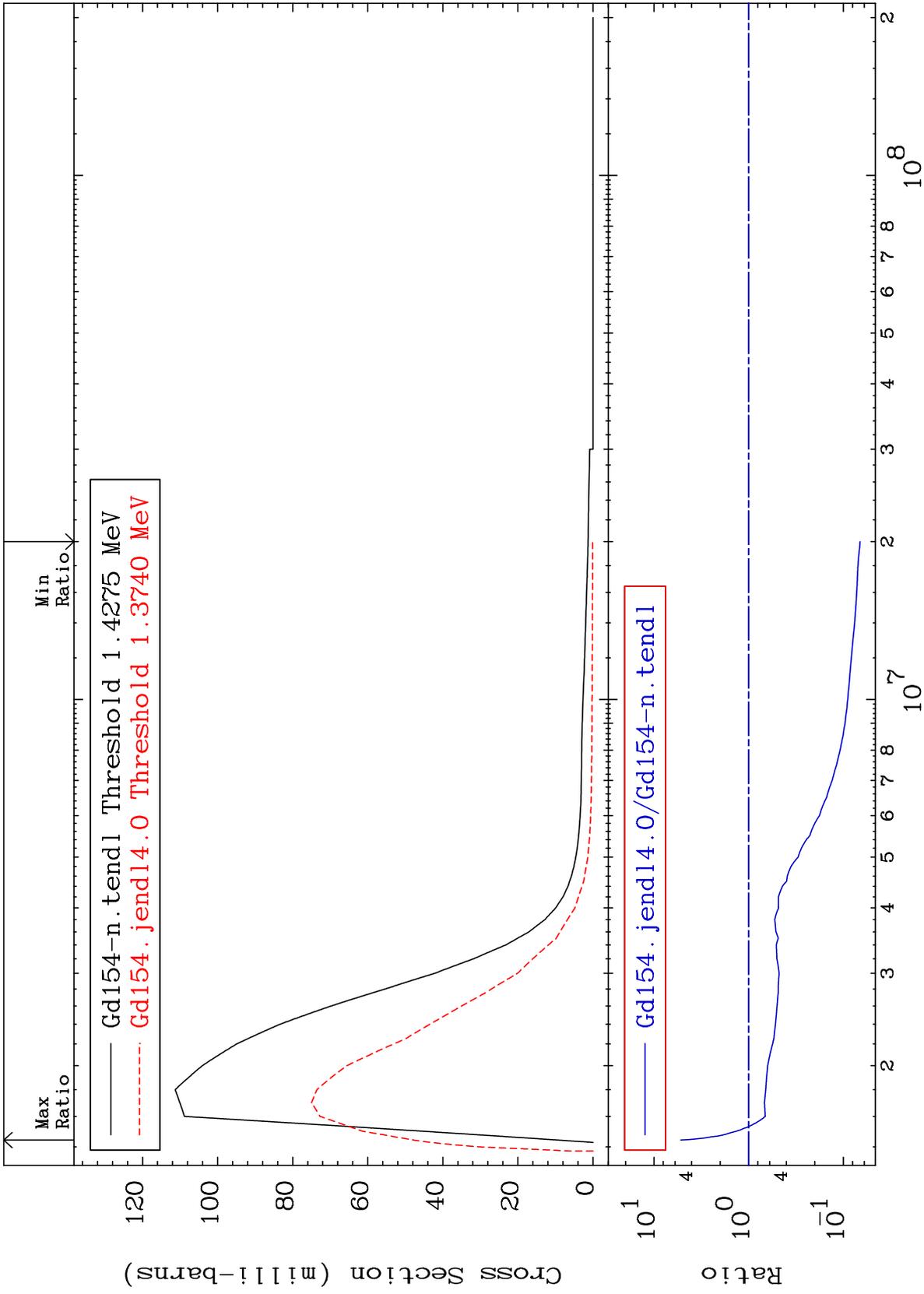


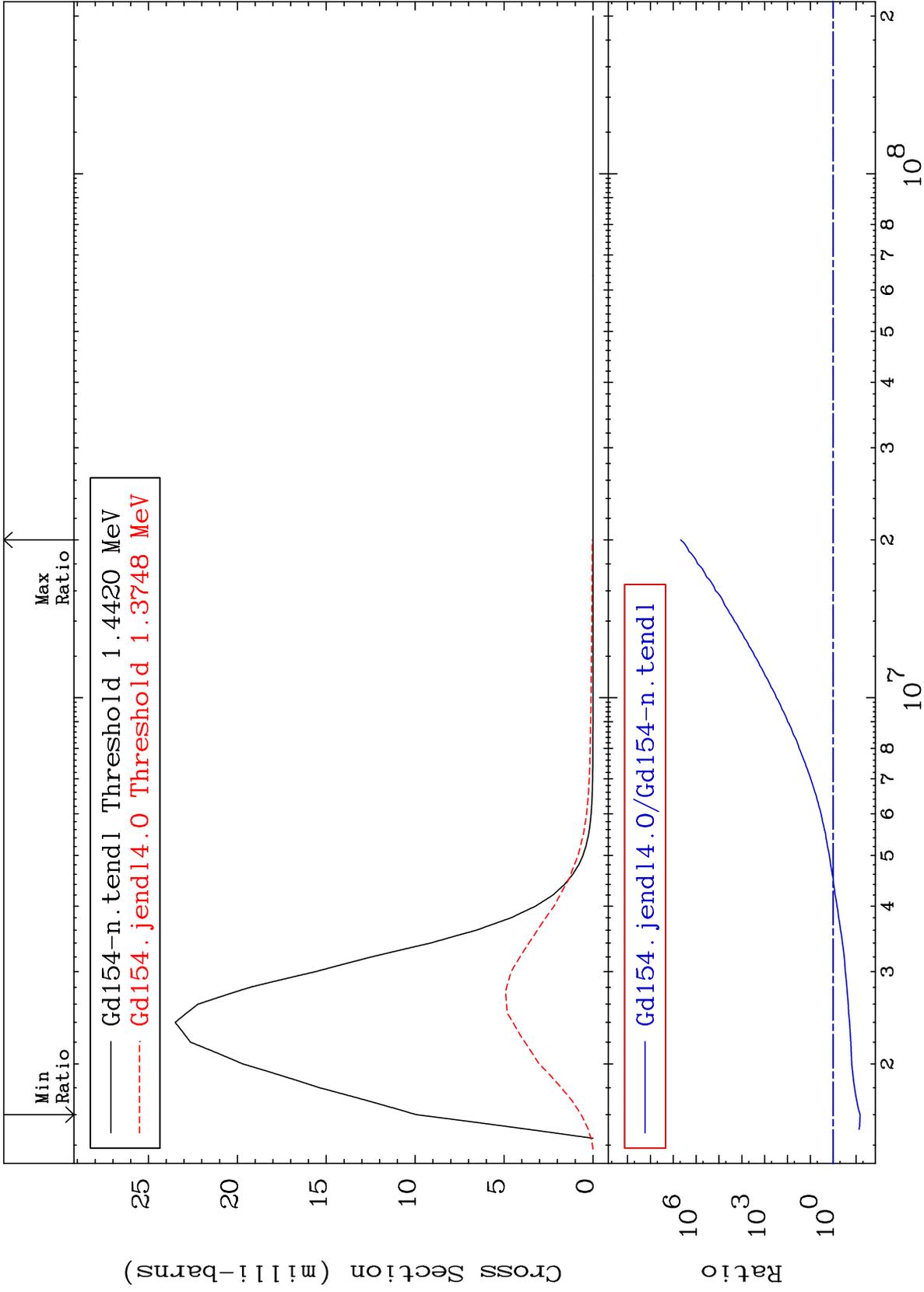
MAT 6431

1.414 MeV (n,n') Level  
Cross Section

64-Gd-154  
-89.10 To 1835. %



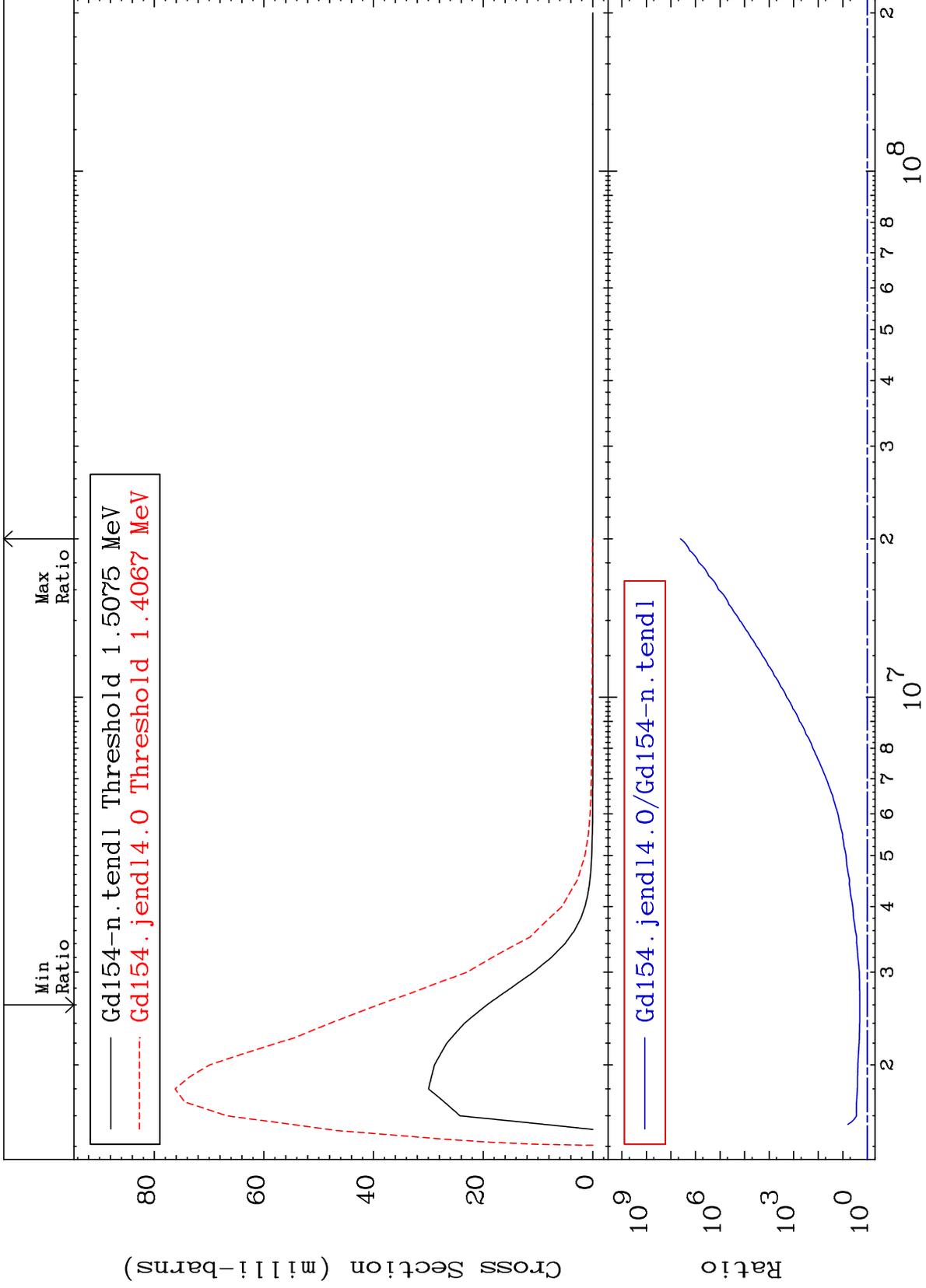




MAT 6431

1.498 MeV (n,n') Level  
Cross Section

64-Gd-154  
102.8 To 9999. %



30

Incident Energy (eV)

64-Gd-154

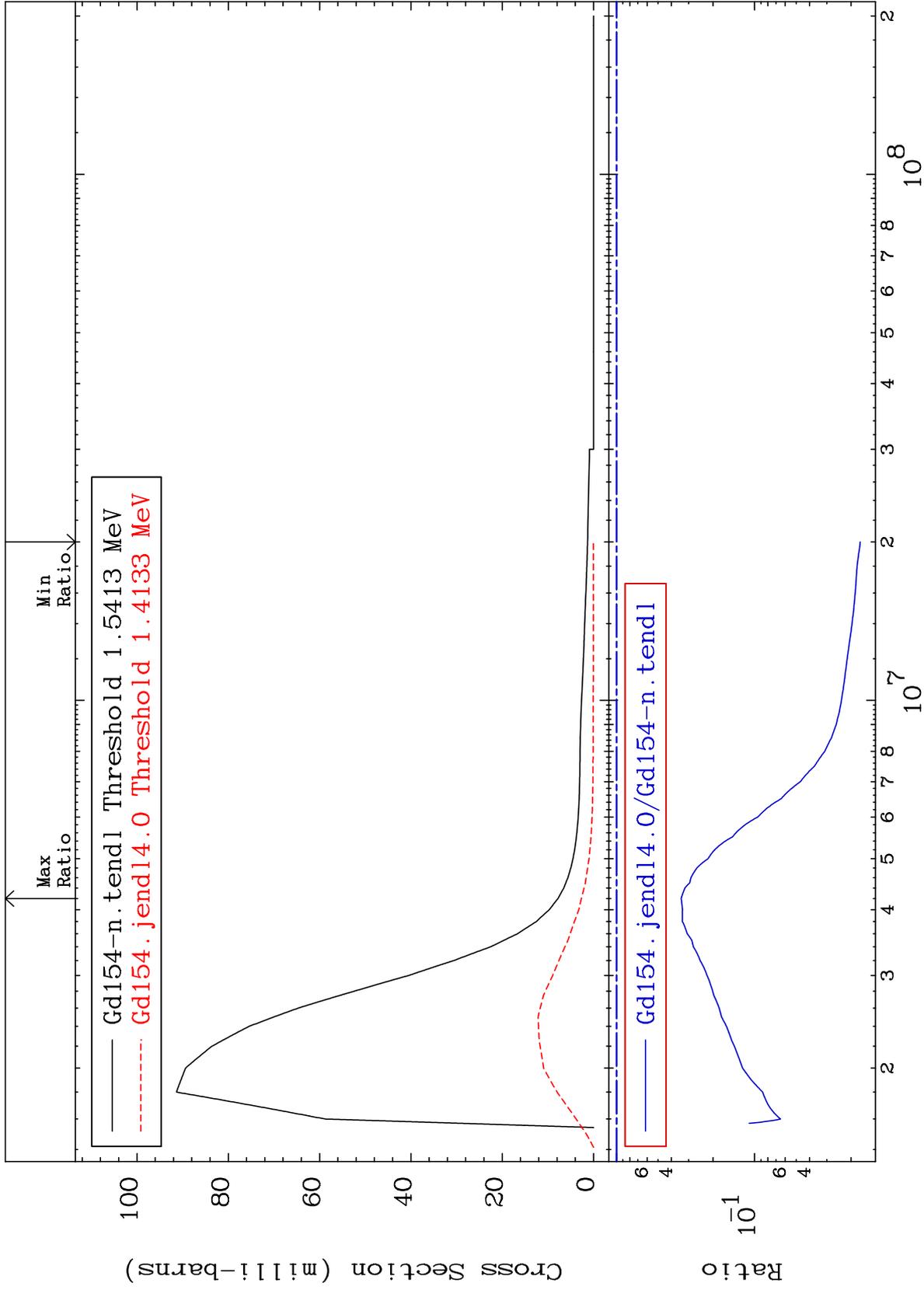
MAT 6431

1.531 MeV (n,n') Level

64-Gd-154

-98.28 To -66.00%

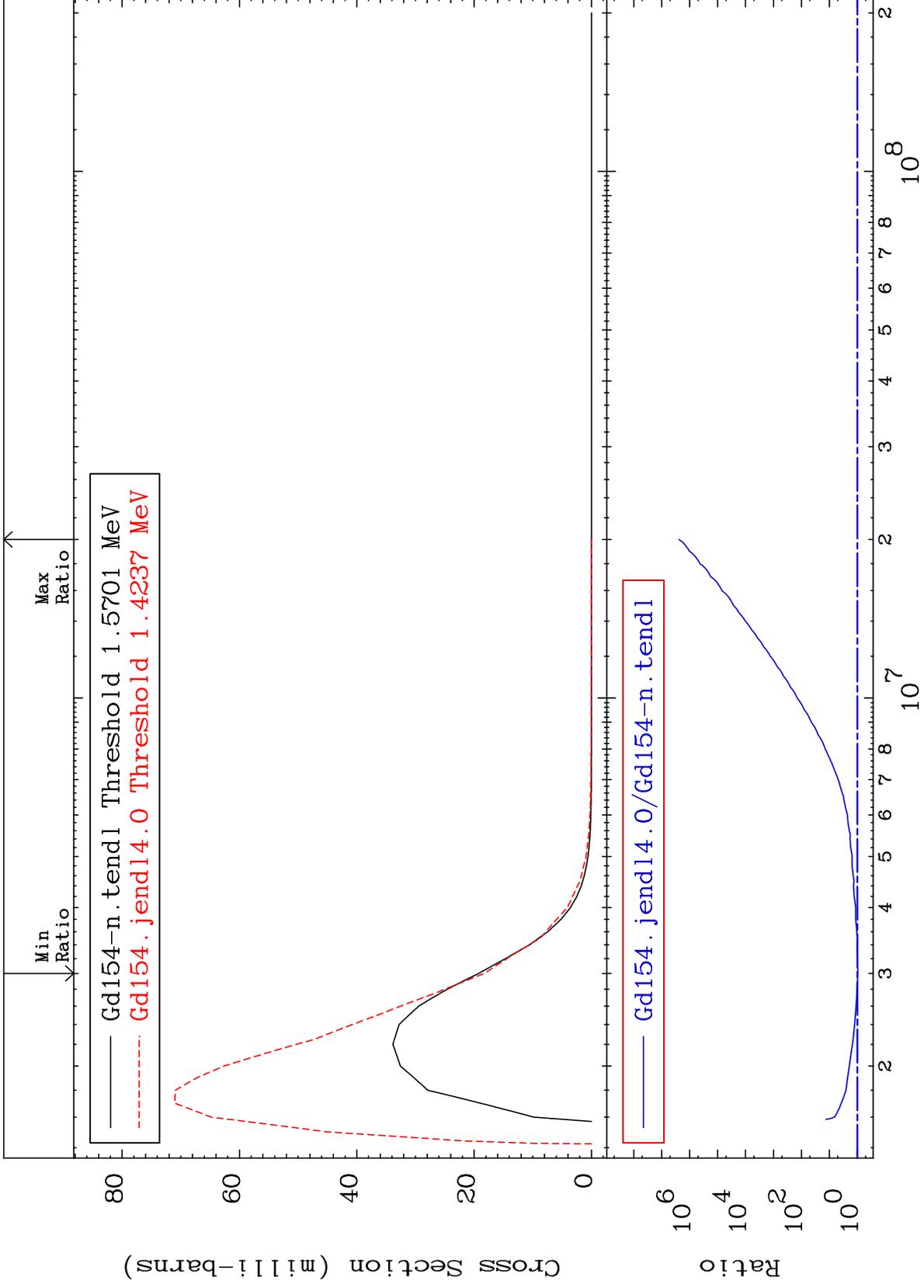
Cross Section



MAT 6431

1.560 MeV (n,n') Level  
Cross Section

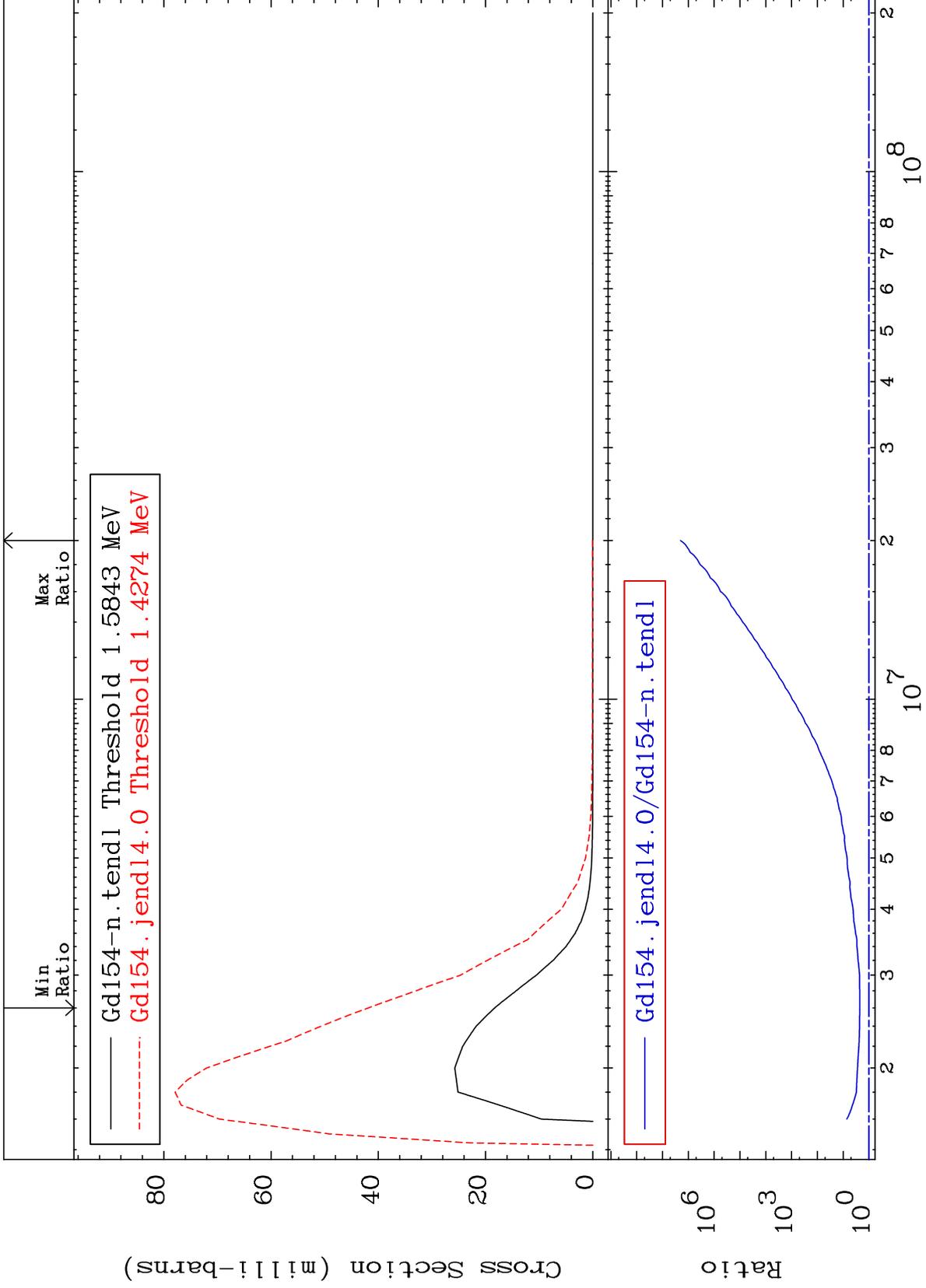
64-Gd-154  
-5.177 To 9999. %



MAT 6431

1.574 MeV (n,n') Level  
Cross Section

64-Gd-154  
128.8 To 9999. %



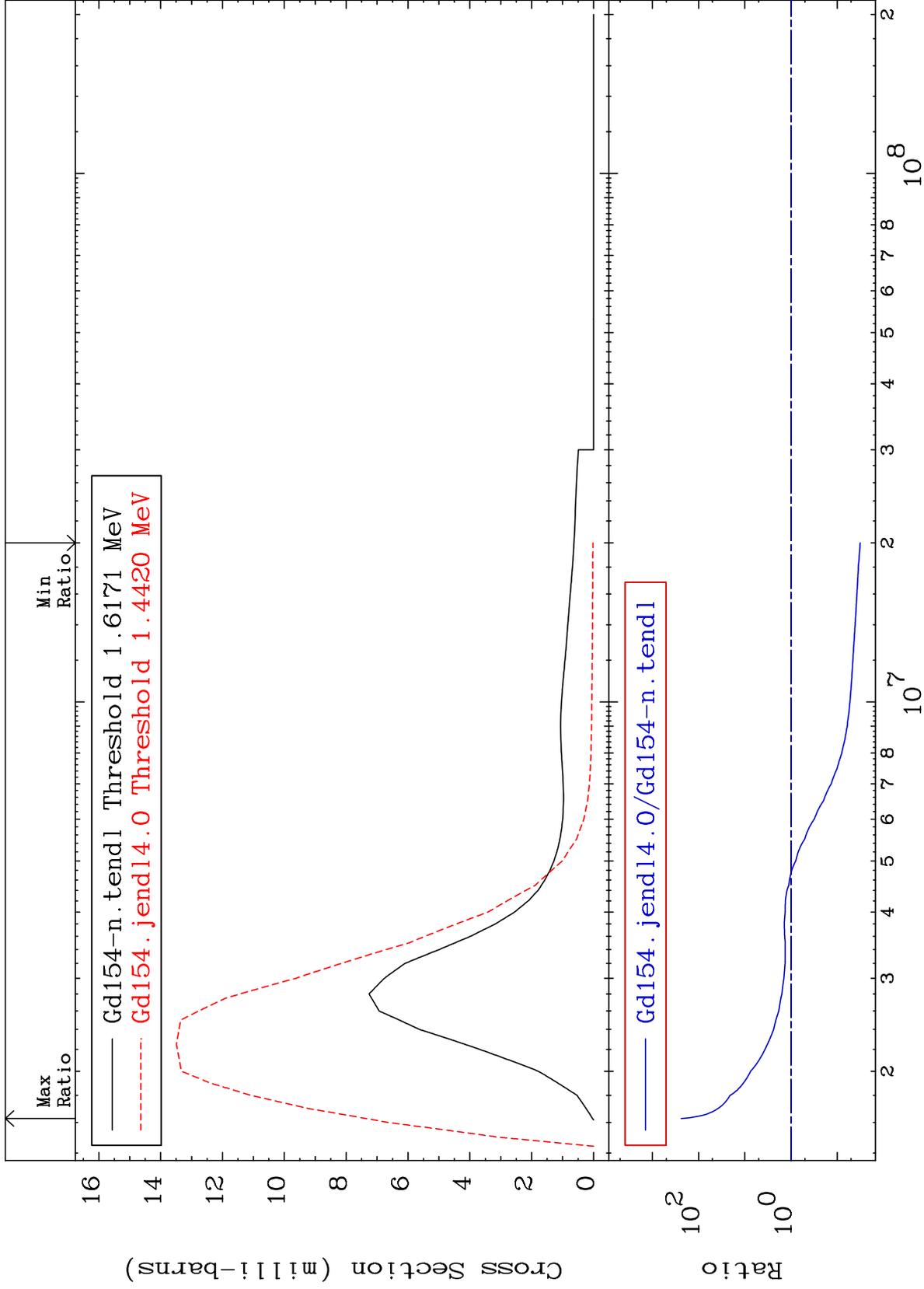
MAT 6431

1.607 MeV (n,n') Level

64-Gd-154

-96.82 To 9999. %

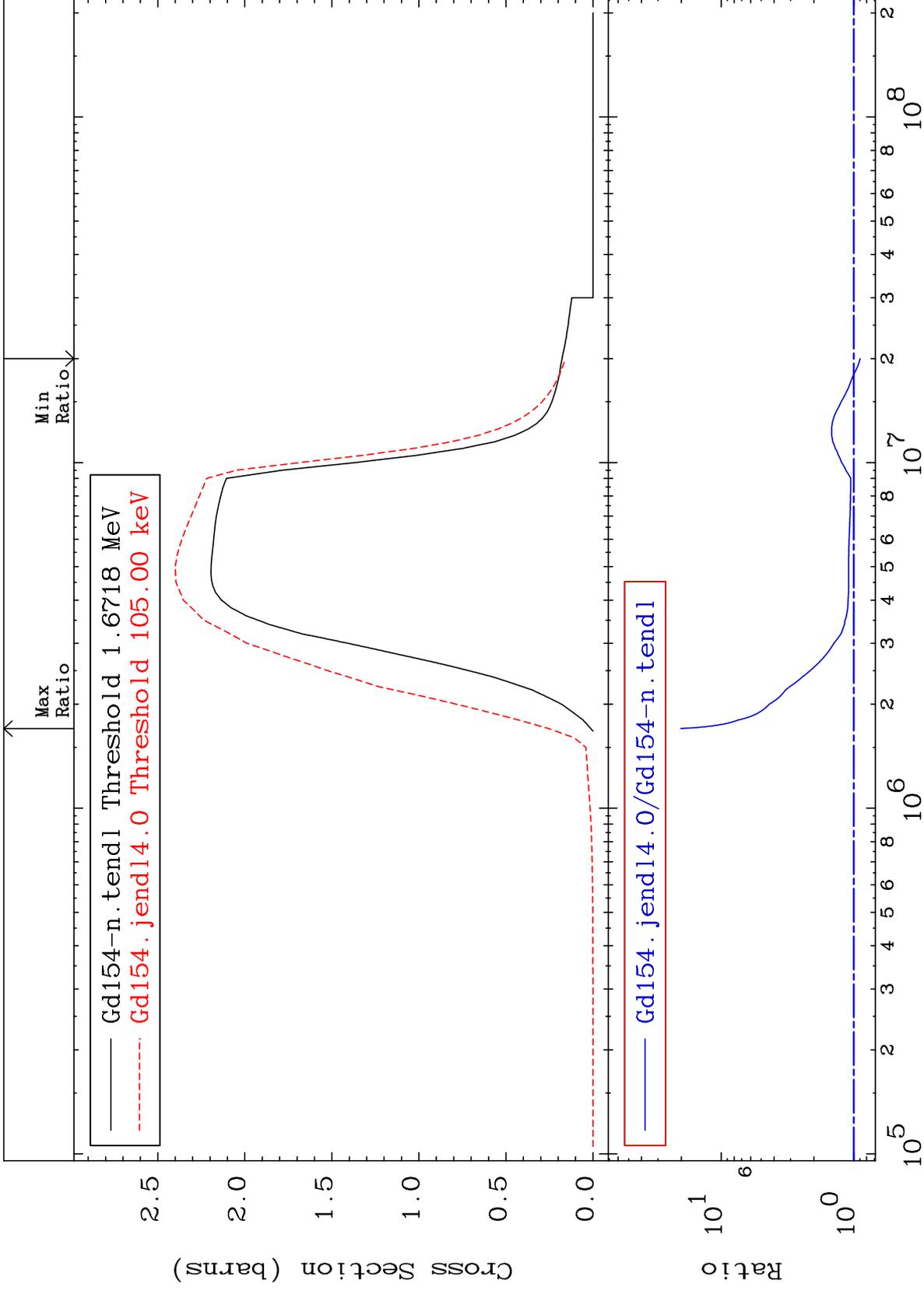
Cross Section



MAT 6431

(n, n') Continuum  
Cross Section

64-Gd-154  
-10.44 To 1921. %



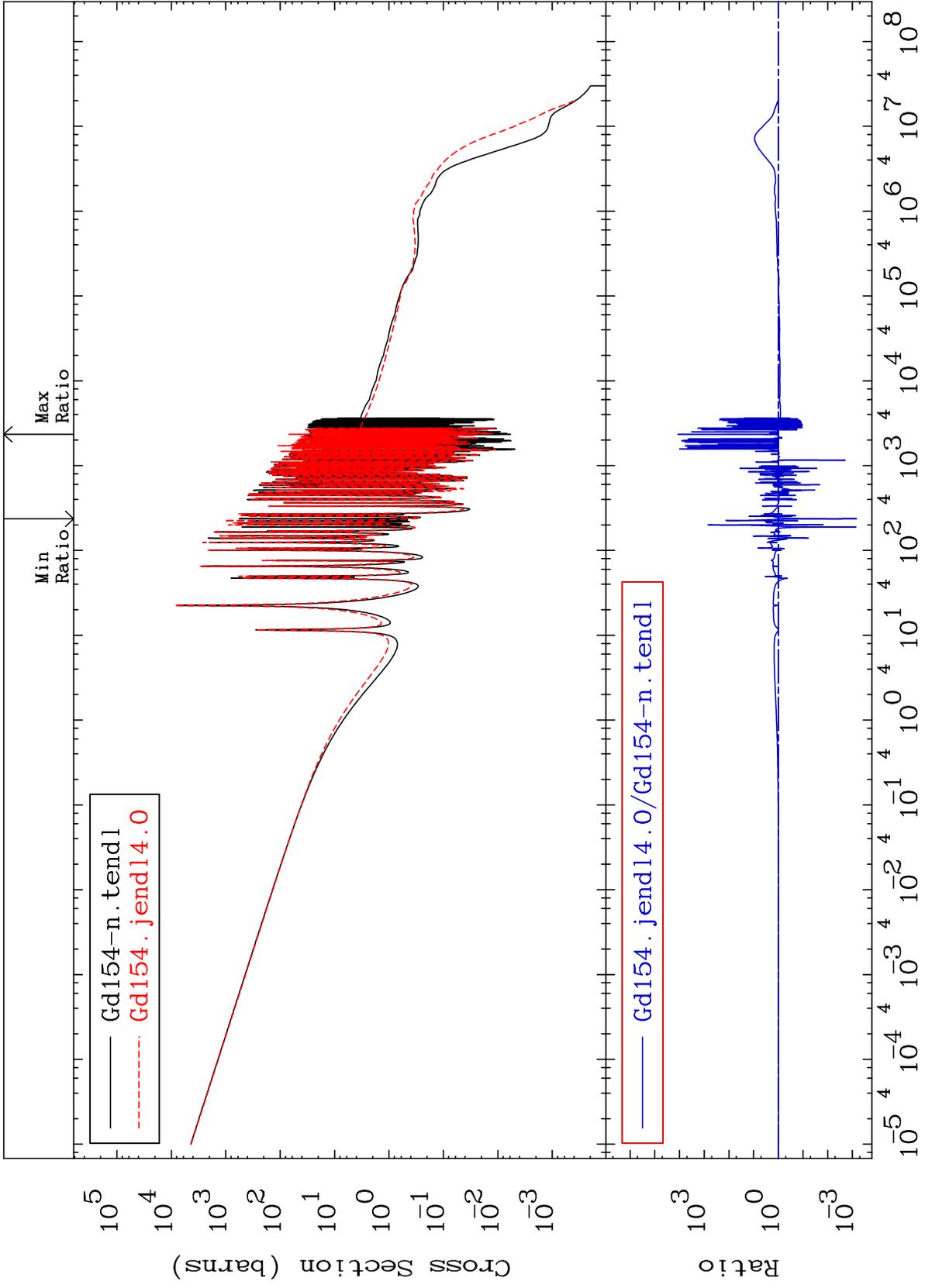
35

Incident Energy (eV)

64-Gd-154

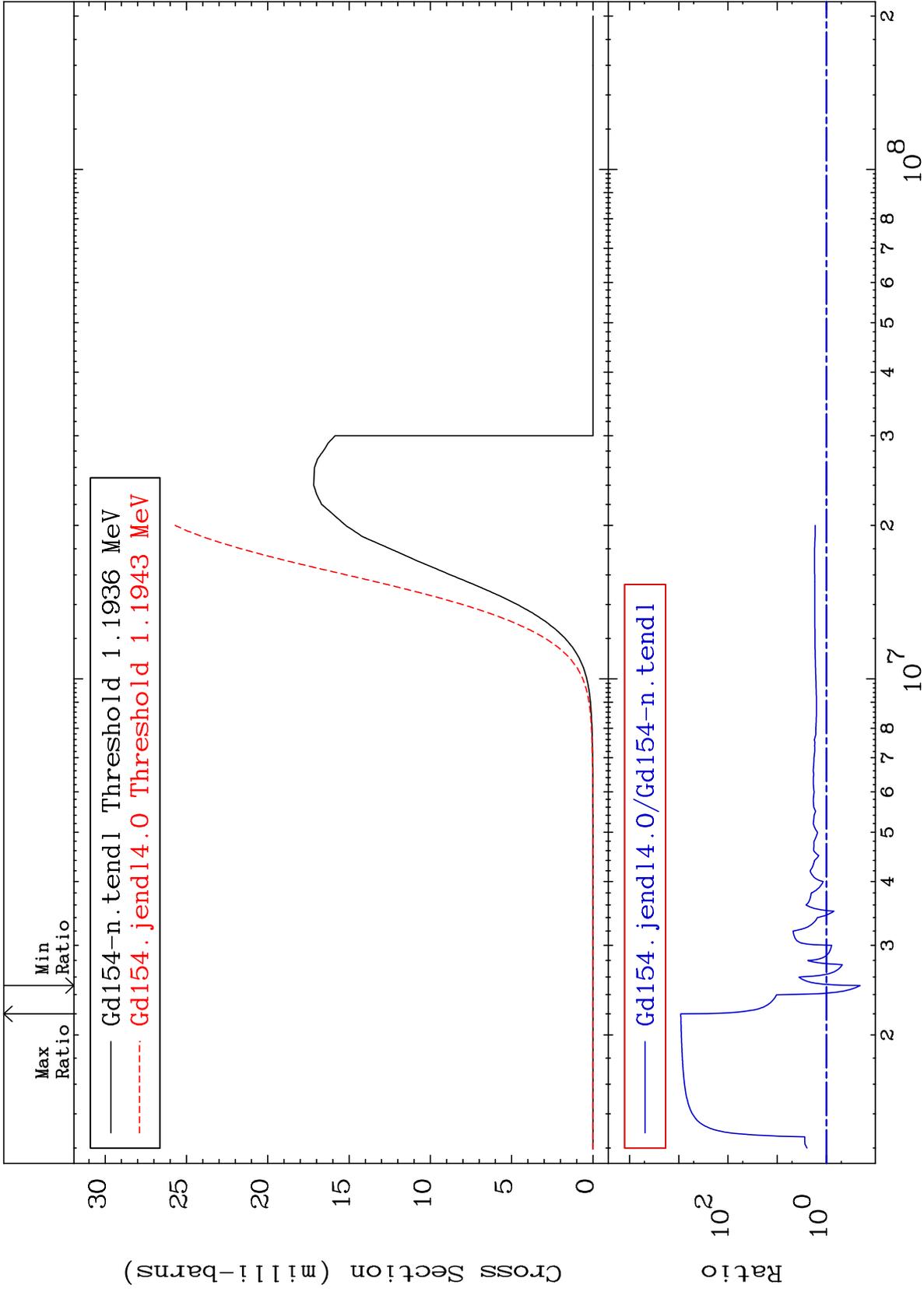
MAT 6431

(n,  $\gamma$ )  
Cross Section  
64-Gd-154  
-99.93 To 9999. %



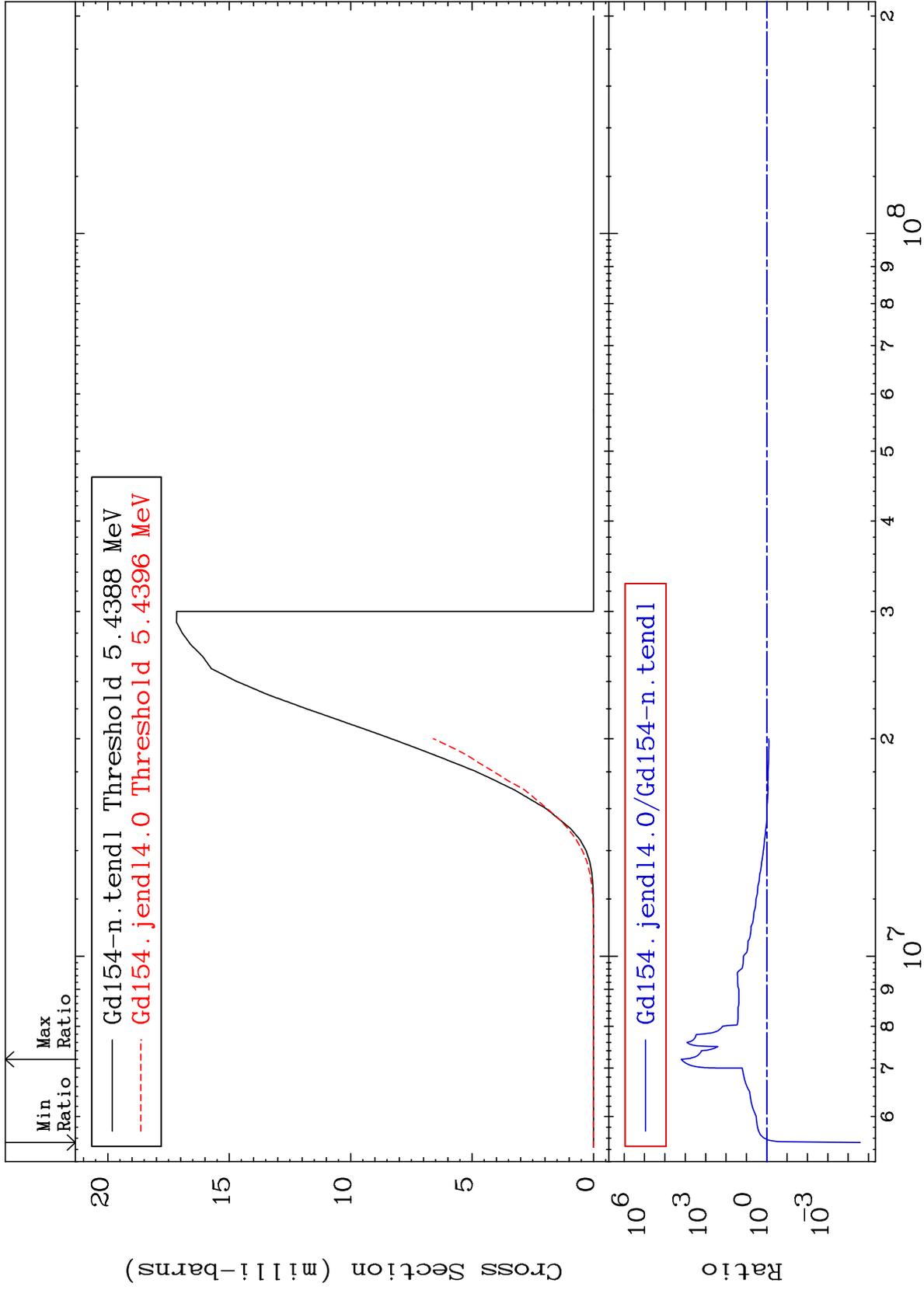
Cross Section

-79.29 To 9999. %



Cross Section

-100.0 To 9999. %



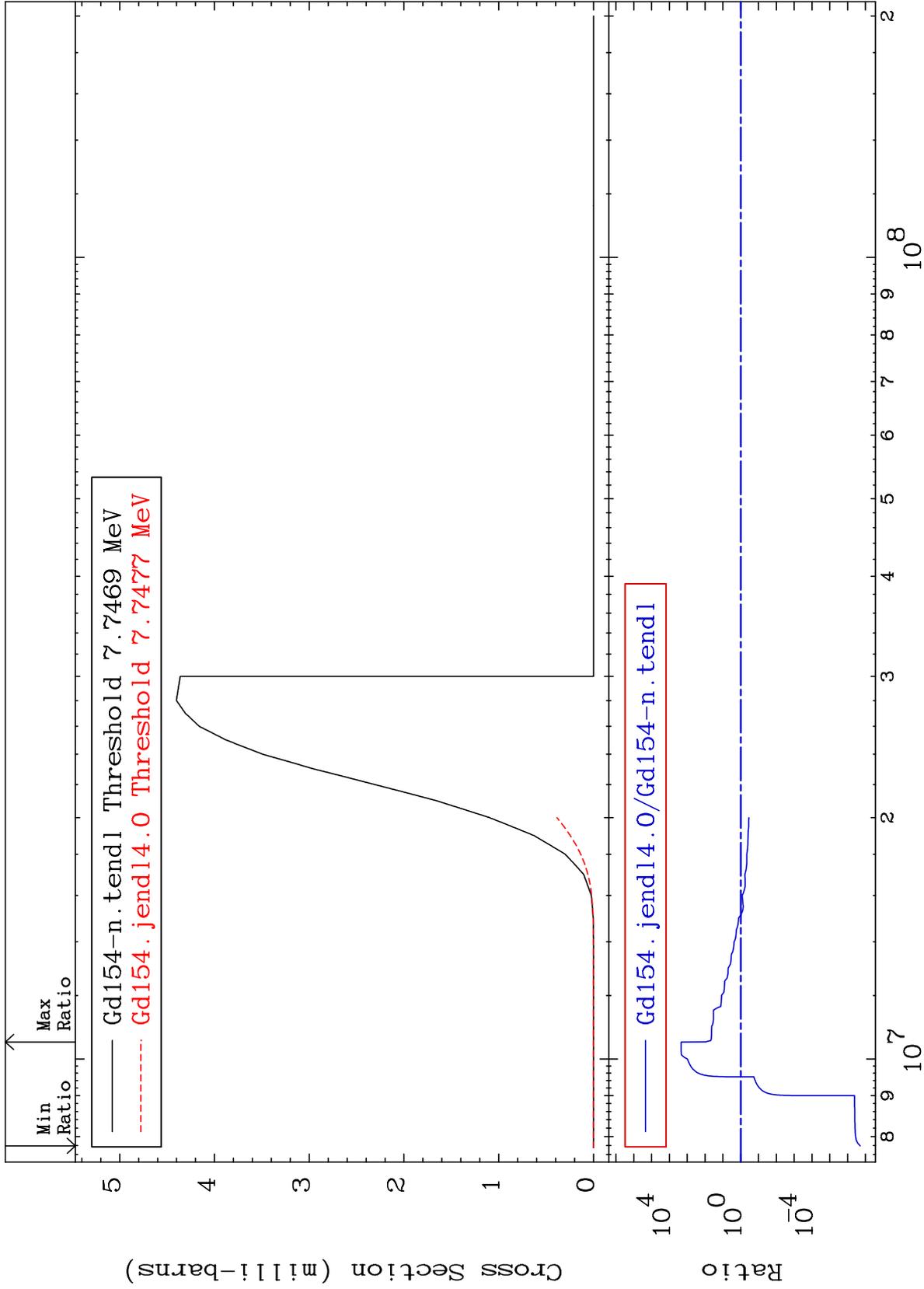
MAT 6431

(n, t)

64-Gd-154

Cross Section

-100.0 To 9999. %



39

Incident Energy (eV)

64-Gd-154

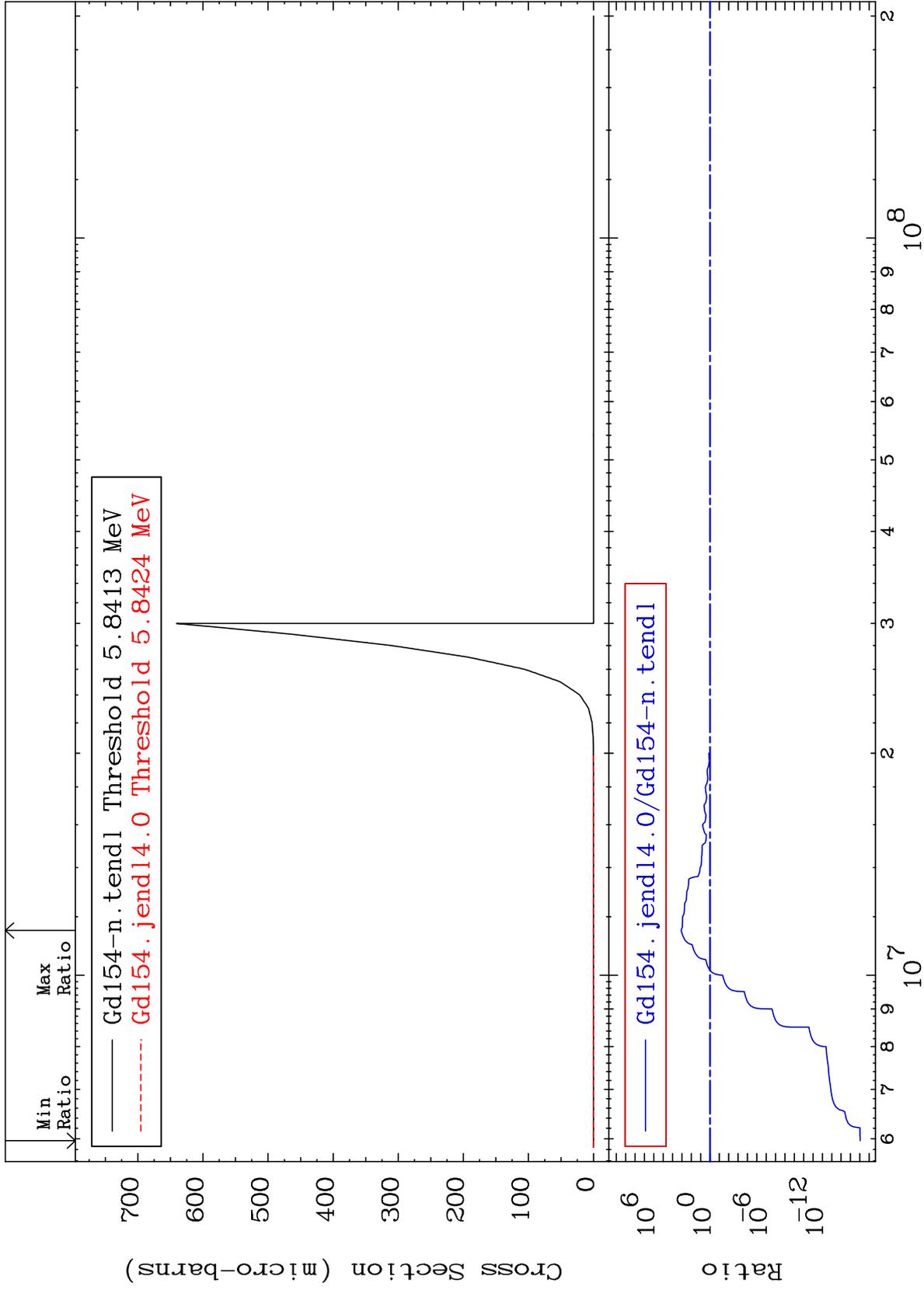
MAT 6431

(n, He-3)

64-Gd-154

Cross Section

-100.0 To 9999. %



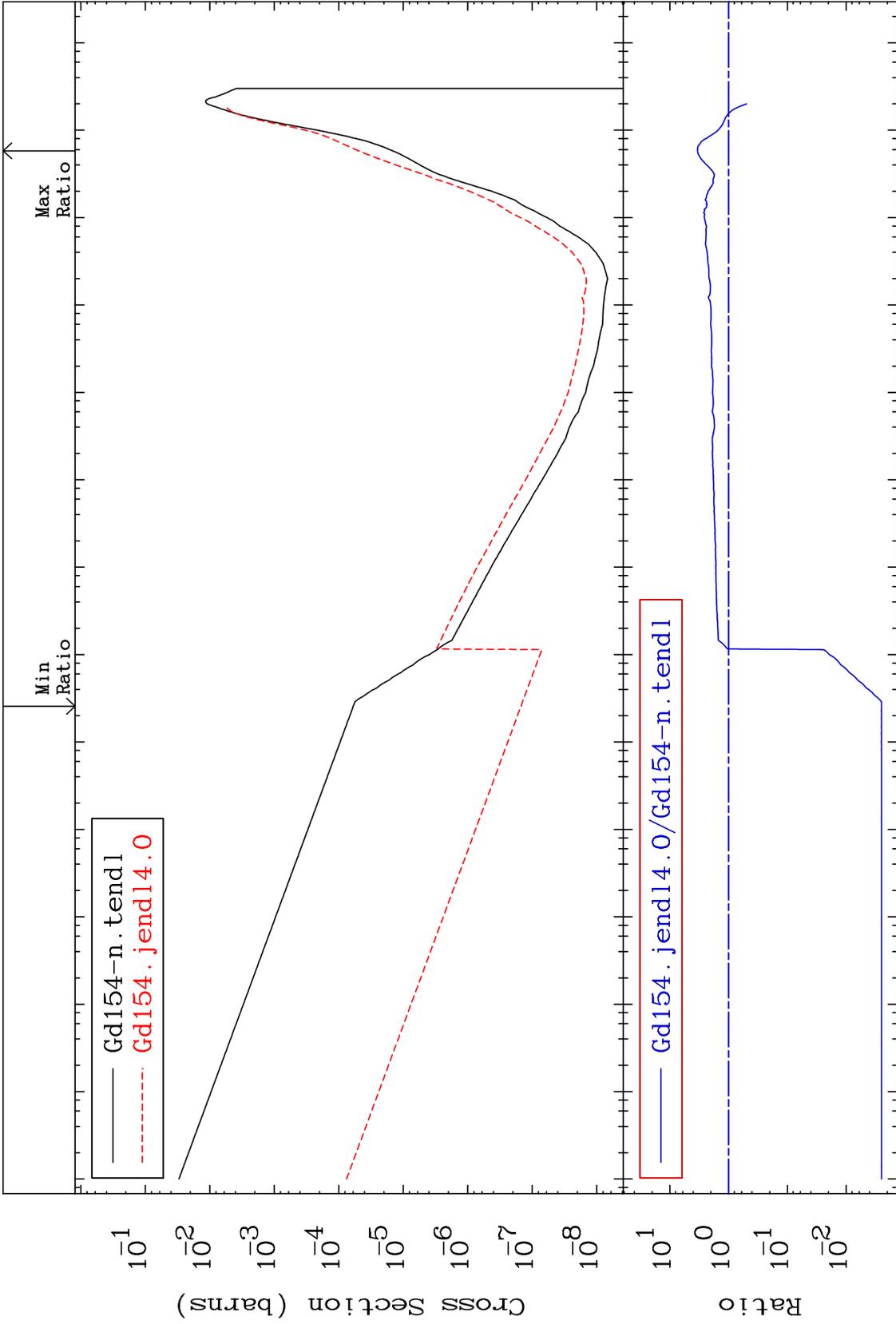
40

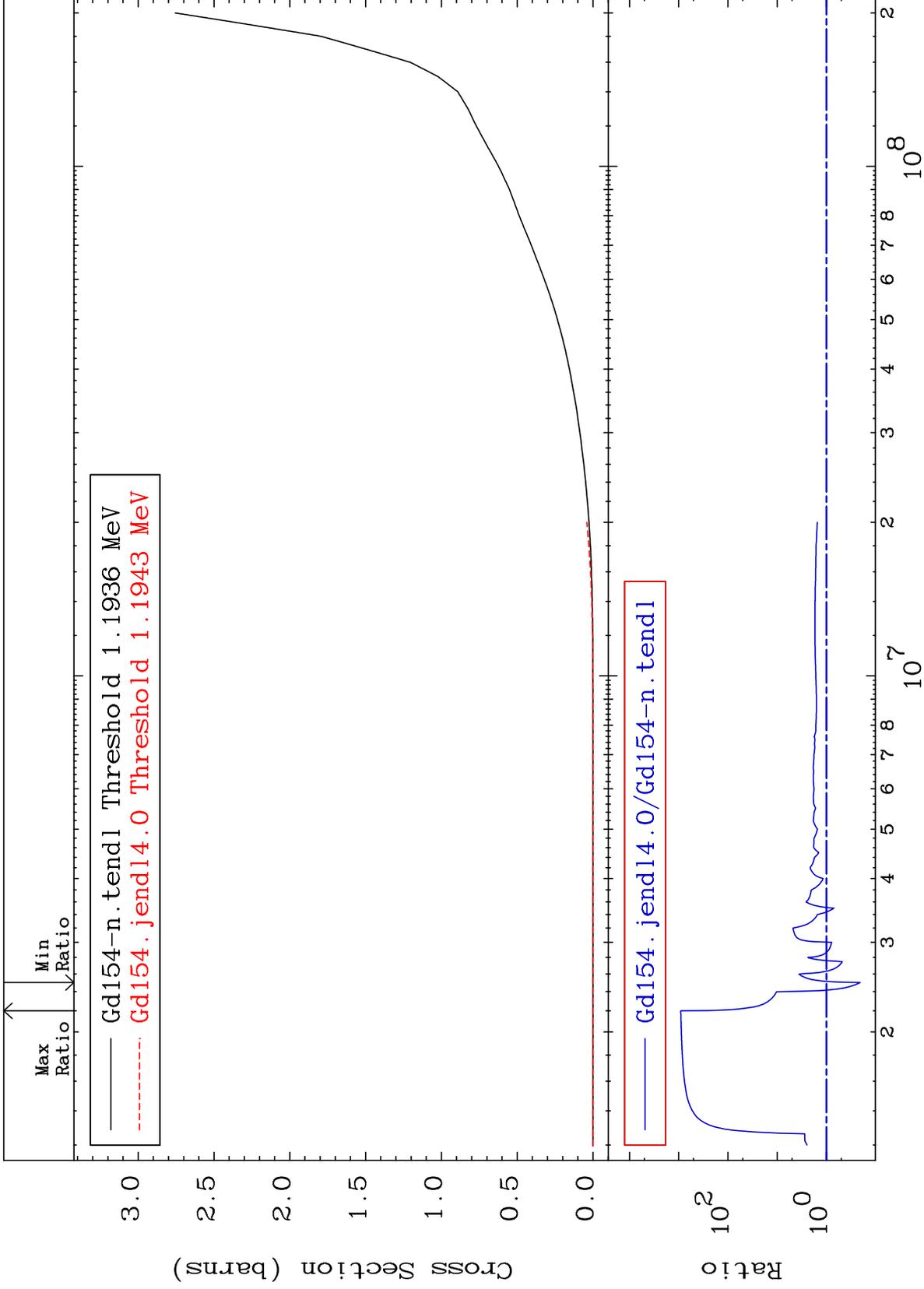
Incident Energy (eV)

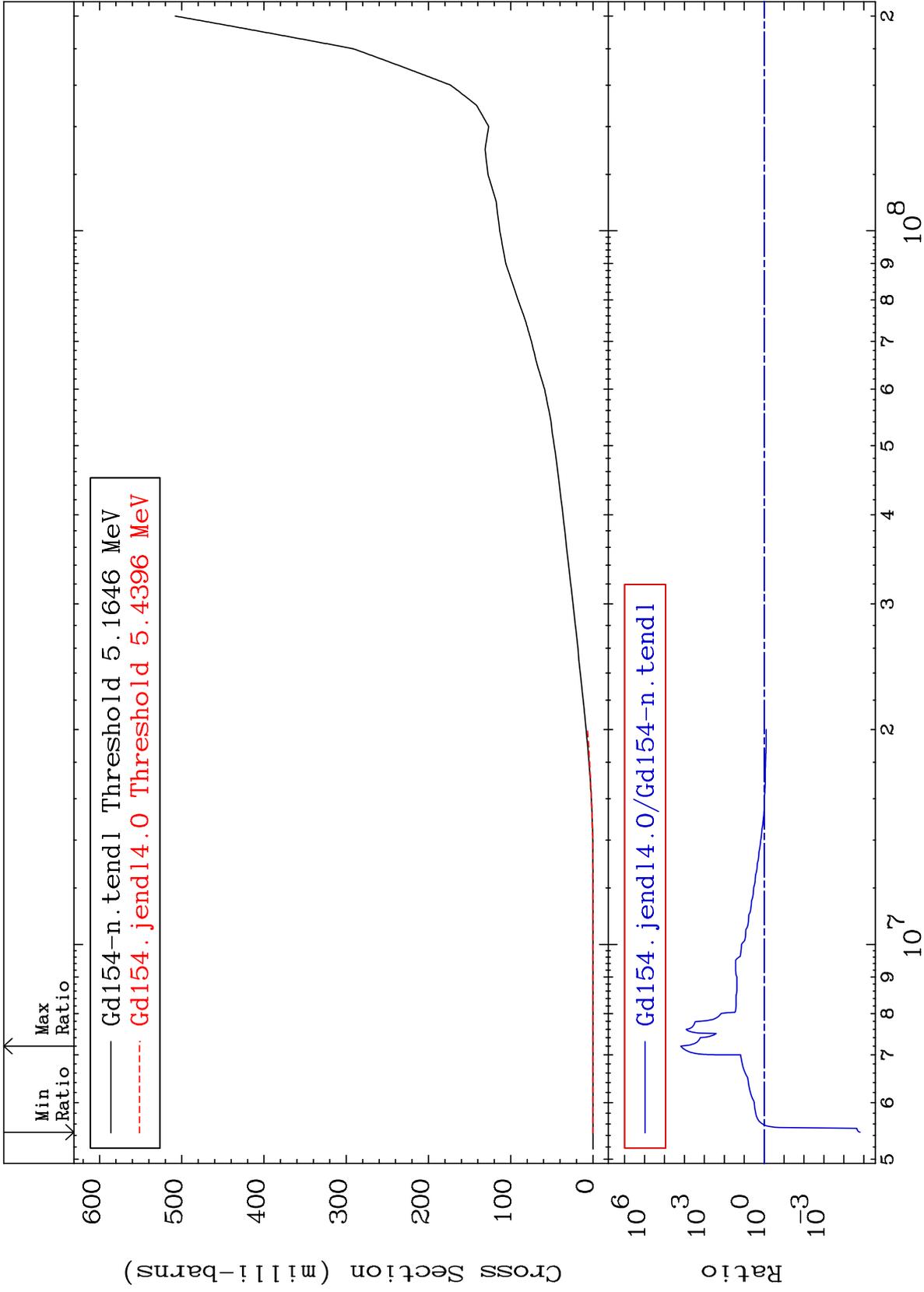
64-Gd-154

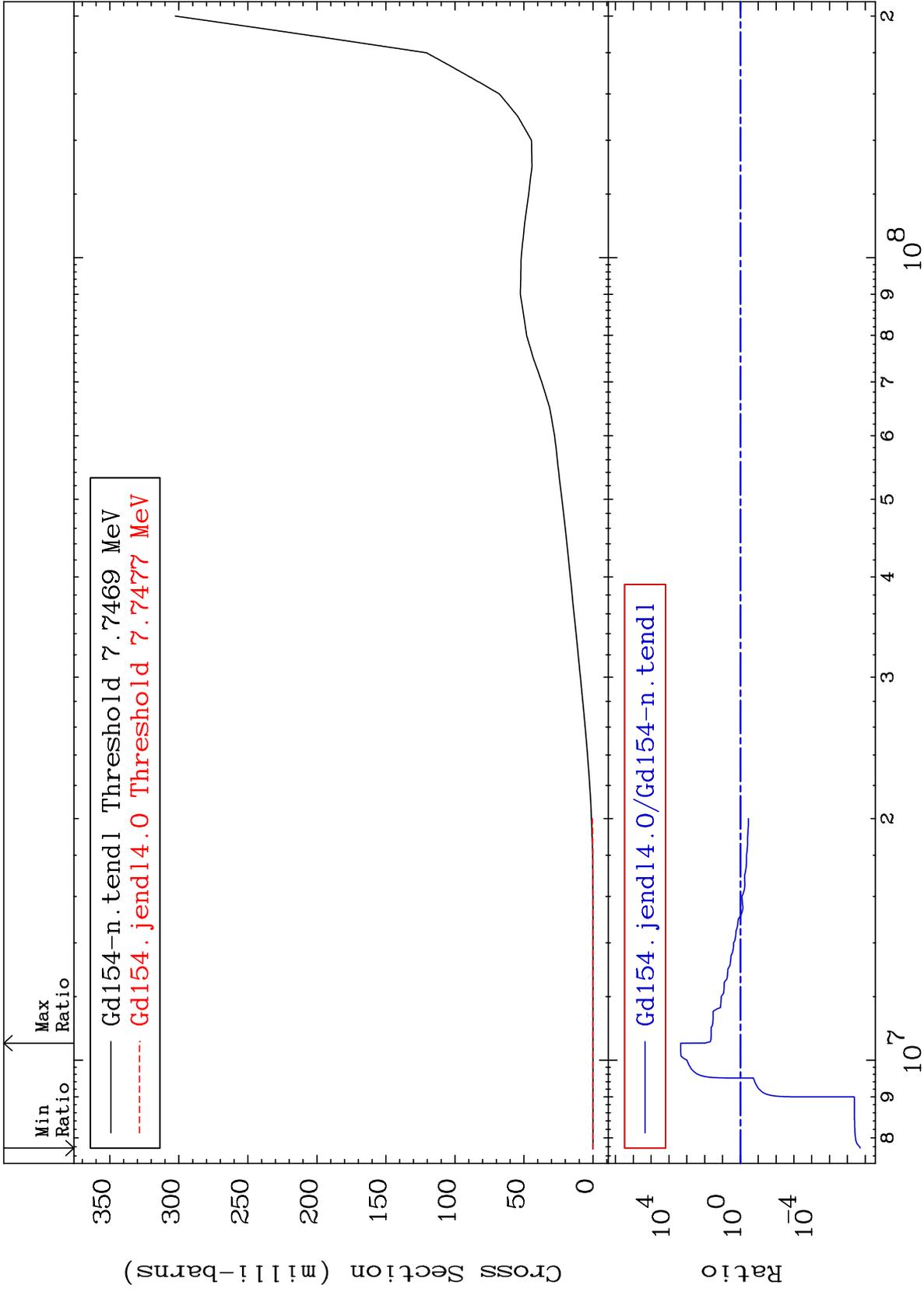
MAT 6431

(n,  $\alpha$ )  
Cross Section  
64-Gd-154  
-99.75 To 237.0 %





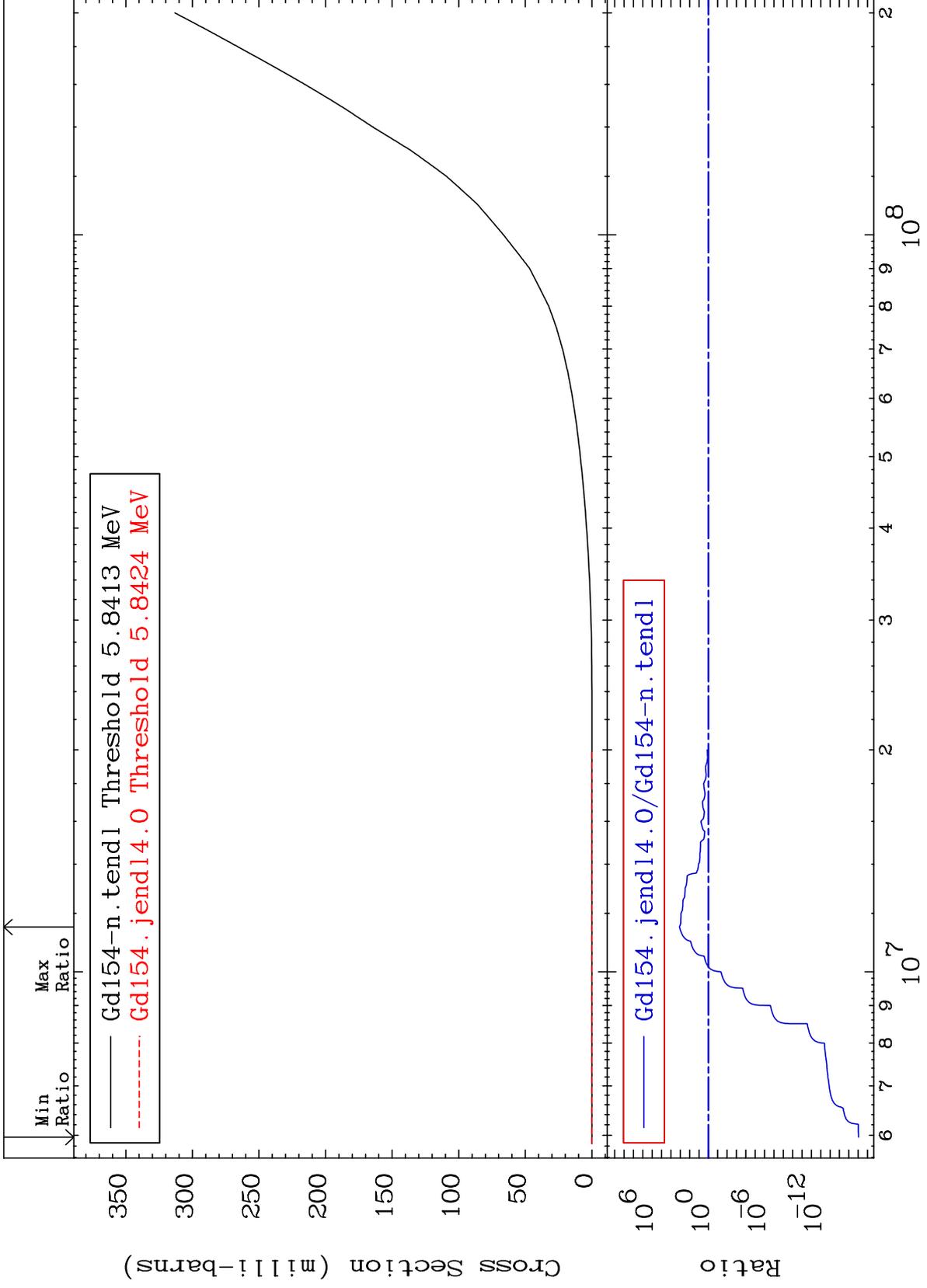




MAT 6431

He-3 Production  
Cross Section

64-Gd-154  
-100.0 To 9999. %



45

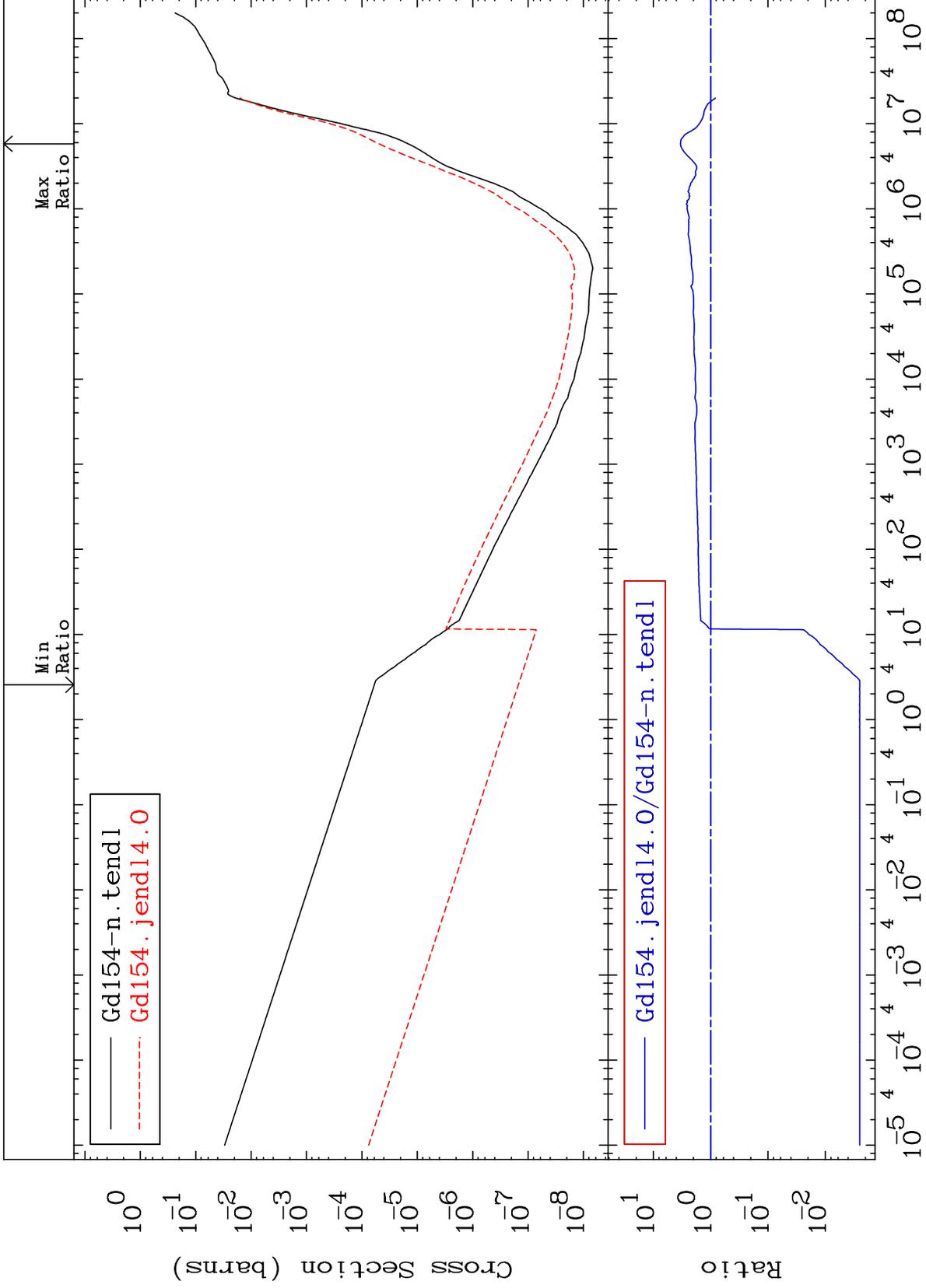
Incident Energy (eV)

64-Gd-154

MAT 6431

He-4 Production  
Cross Section

64-Gd-154  
-99.75 To 236.4 %



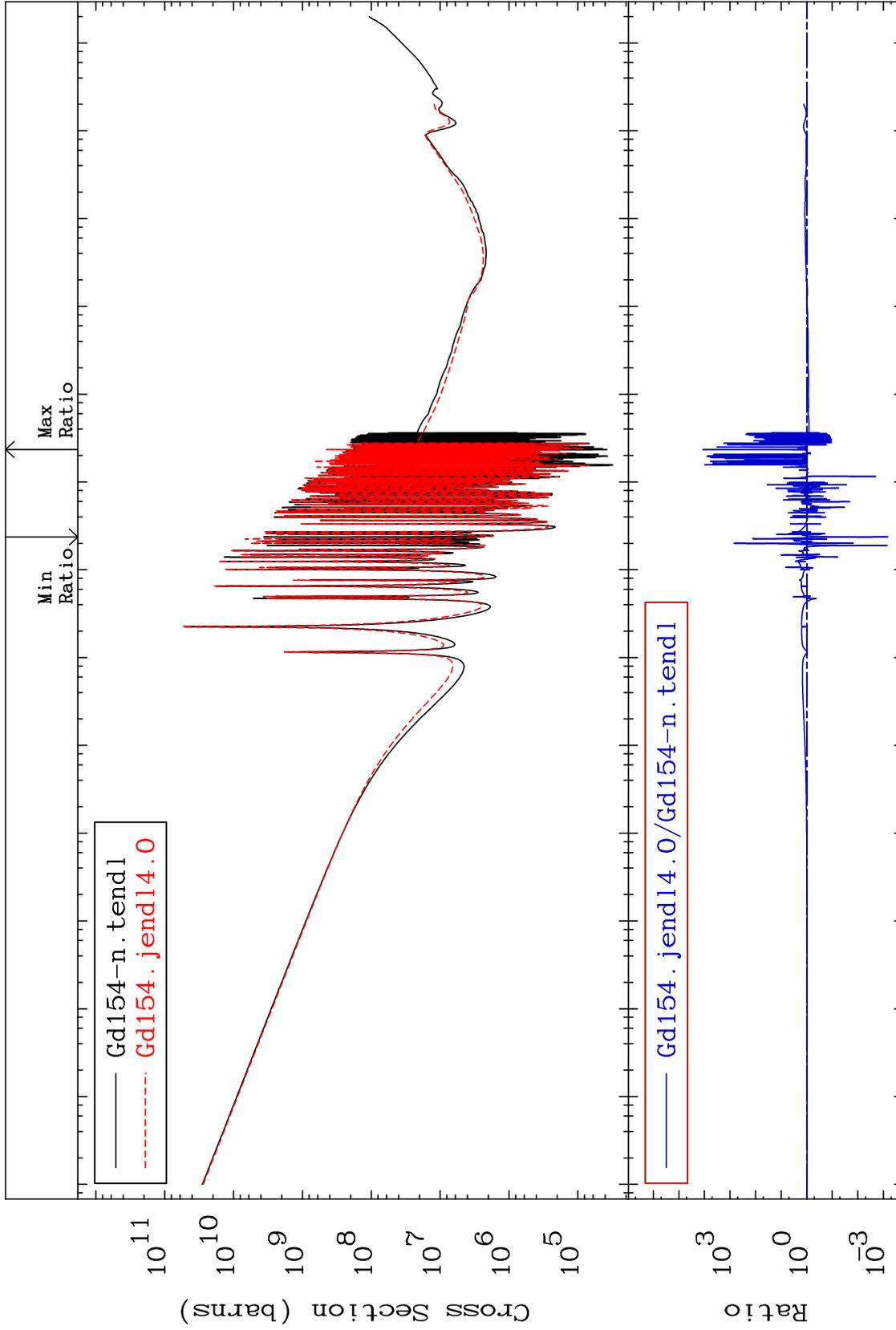
MAT 6431

Kerma total (eV-barns)

64-Gd-154

-99.93 To 9999. %

Cross Section



47

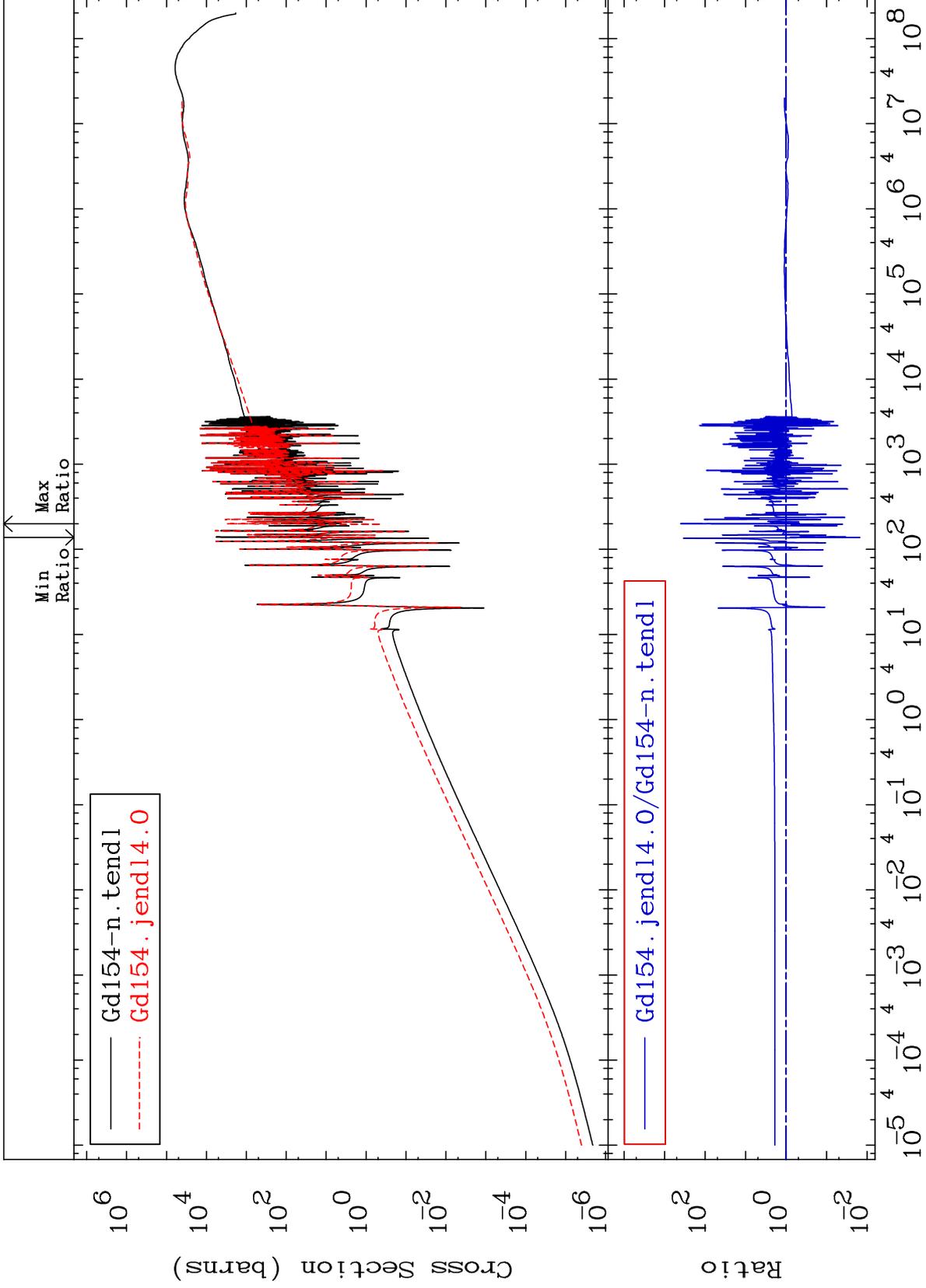
Incident Energy (eV)

64-Gd-154

MAT 6431

Kerma elastic  
Cross Section

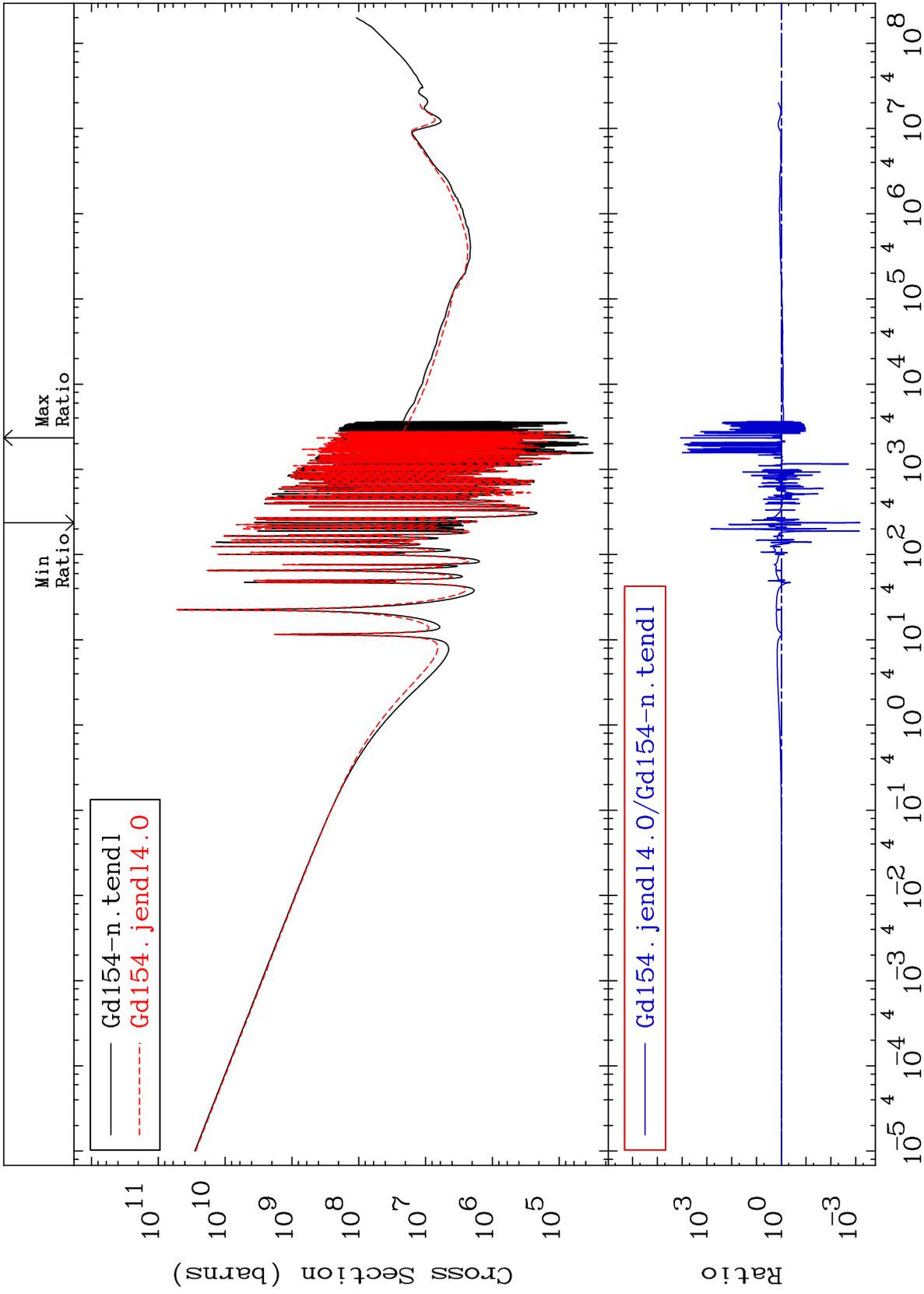
64-Gd-154  
-98.48 To 9999. %



MAT 6431

Kerma non-elastic (all but mt2)  
Cross Section

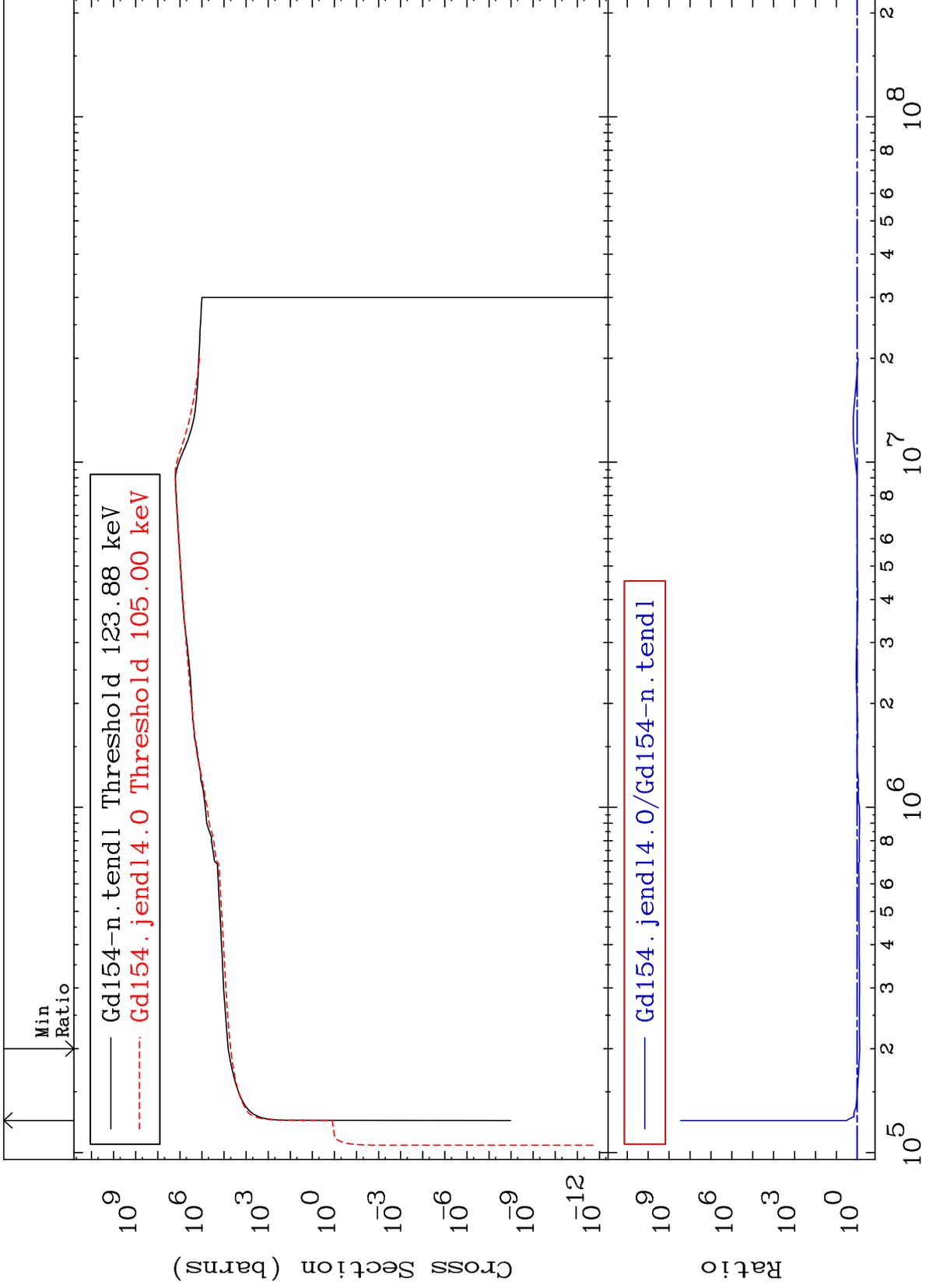
64-Gd-154  
-99.93 To 9999. %



MAT 6431

Kerma inelastic (mt51-91)  
Cross Section

64-Gd-154  
-23.62 To 9999. %



50

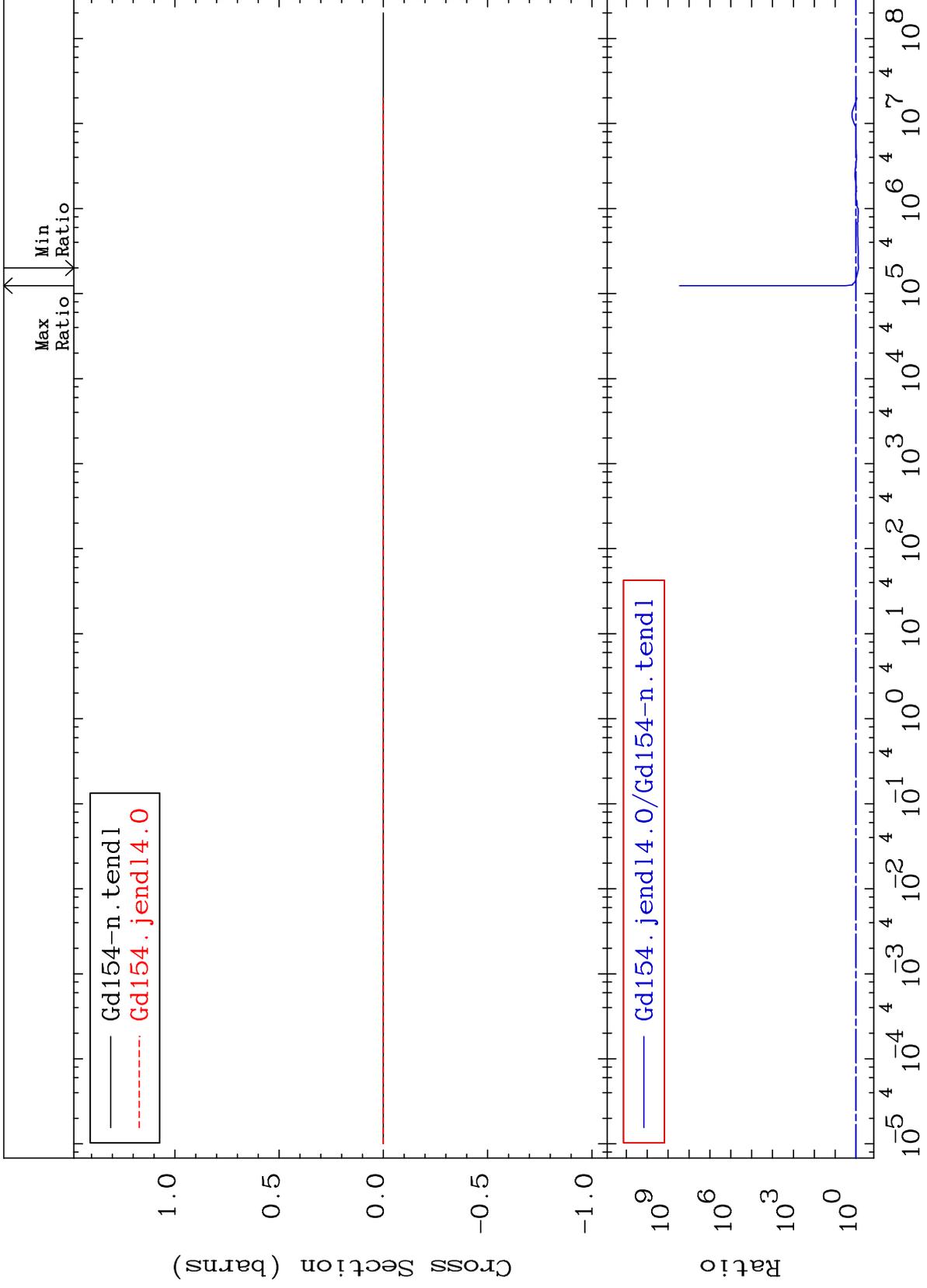
Incident Energy (eV)

64-Gd-154

MAT 6431

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

64-Gd-154  
-23.62 To 9999. %



51

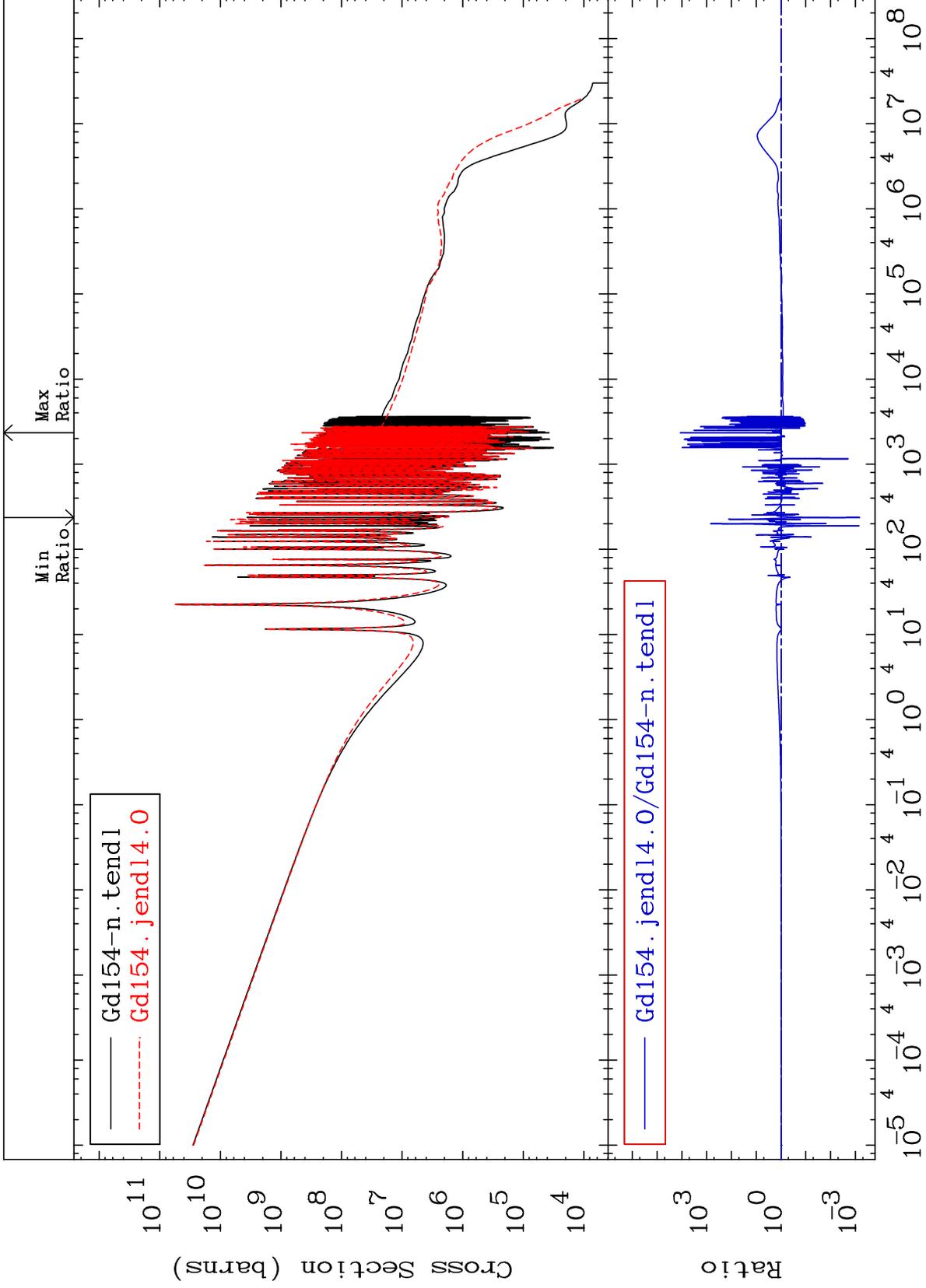
Incident Energy (eV)

64-Gd-154

MAT 6431

Kerma capture (mt102)  
Cross Section

64-Gd-154  
-99.93 To 9999. %



MAT 6431

64-Gd-154

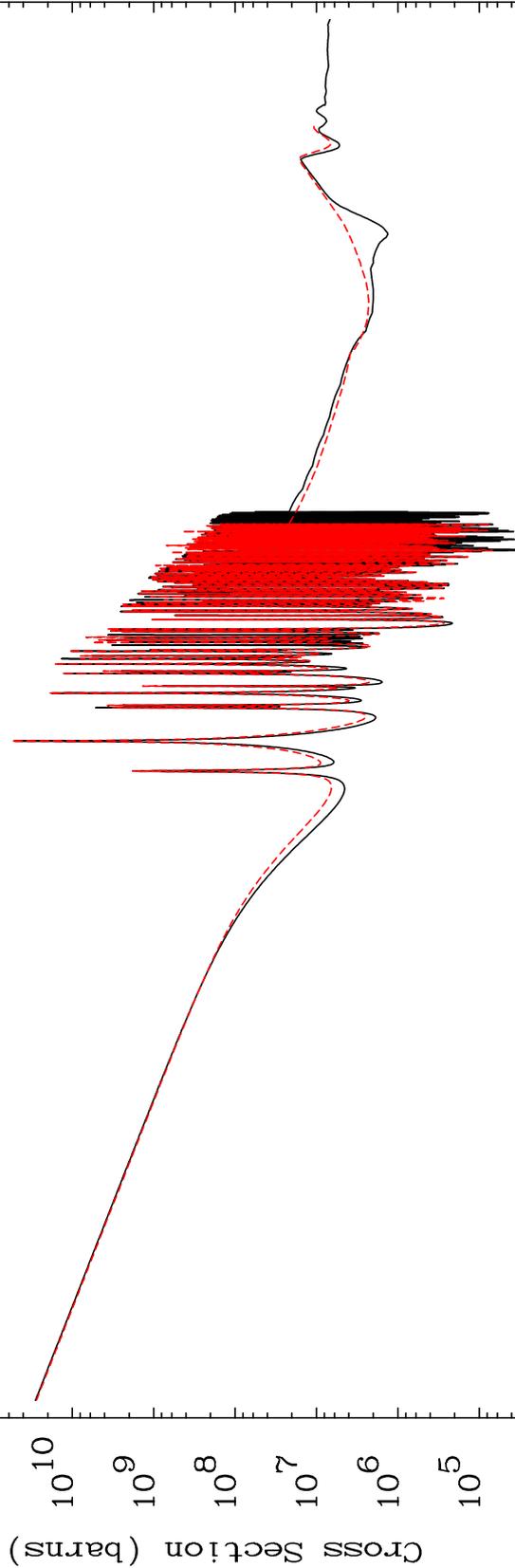
-99.93 To 9999. %

Total photon (eV-barns)  
Cross Section

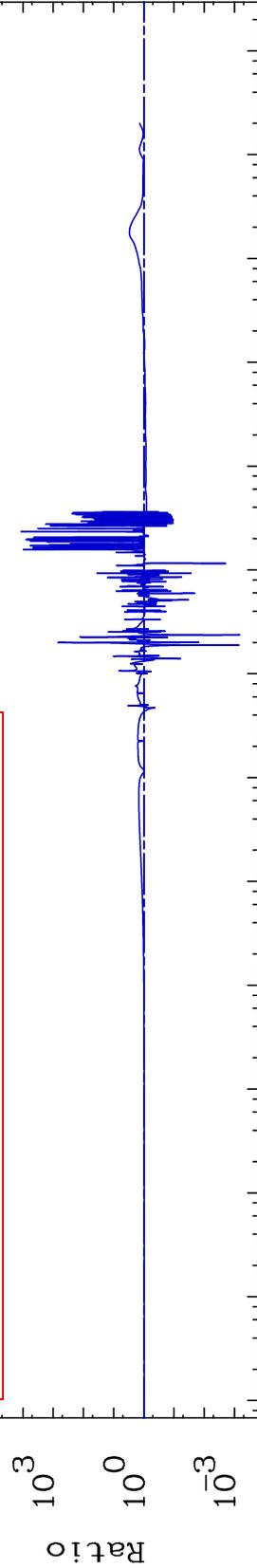
Min Ratio

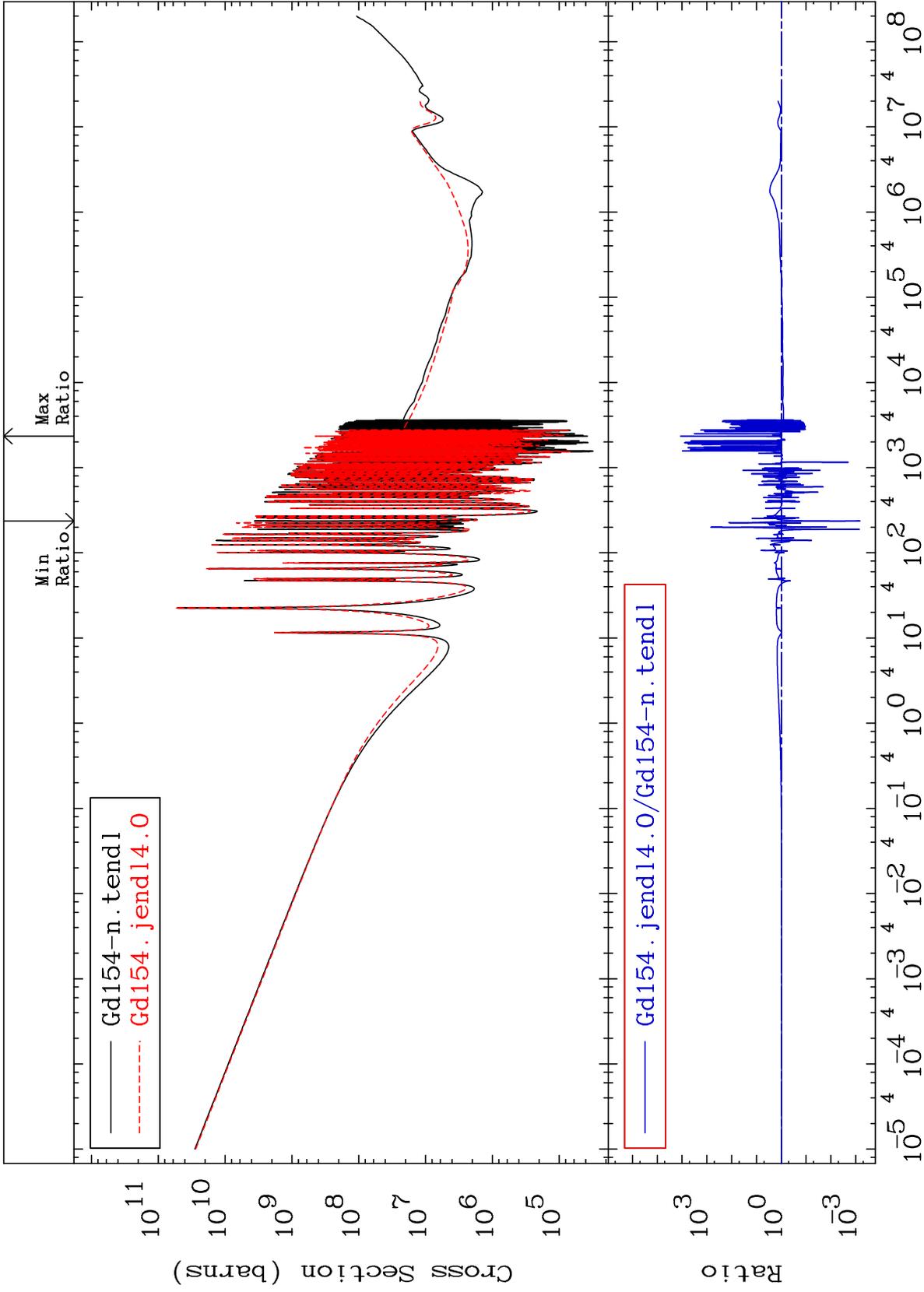
Max Ratio

Gd154-n.tendl  
Gd154.jendl4.0



Gd154.jendl4.0/Gd154-n.tendl



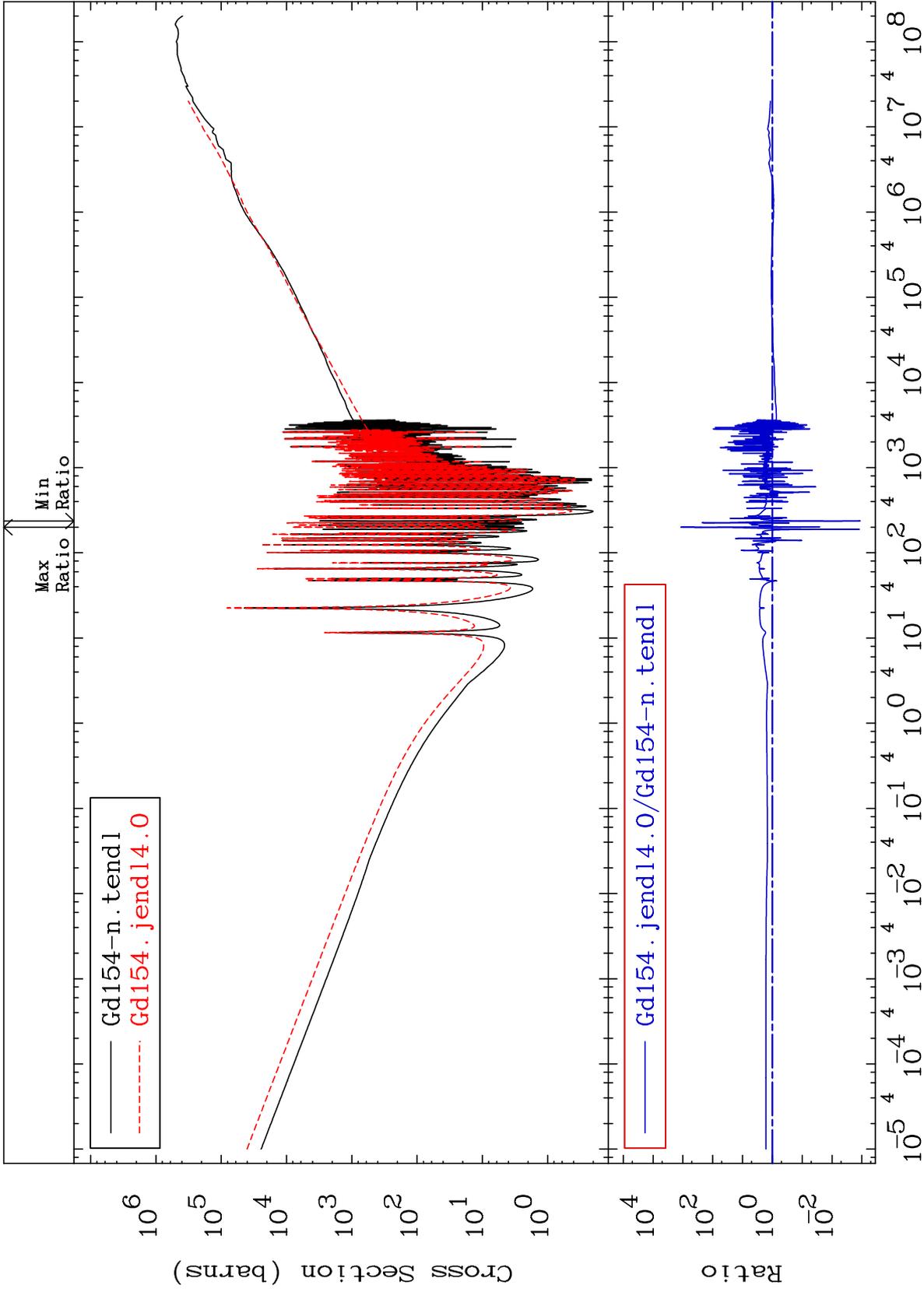


MAT 6431

Dpa total (eV-barns)

64-Gd-154

-99.89 To 9999. %



55

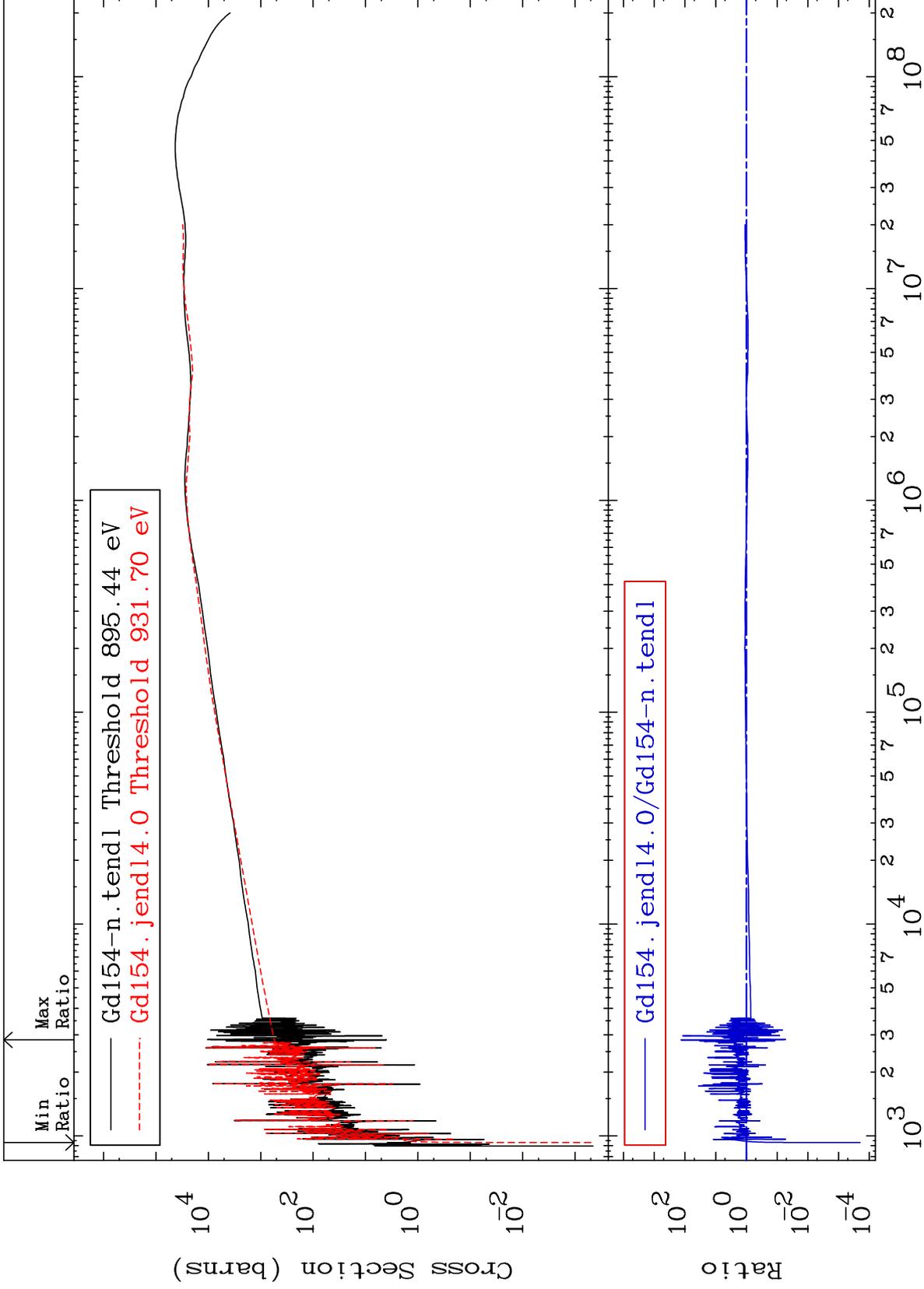
Incident Energy (eV)

64-Gd-154

MAT 6431

Dpa elastic (mt2)  
Cross Section

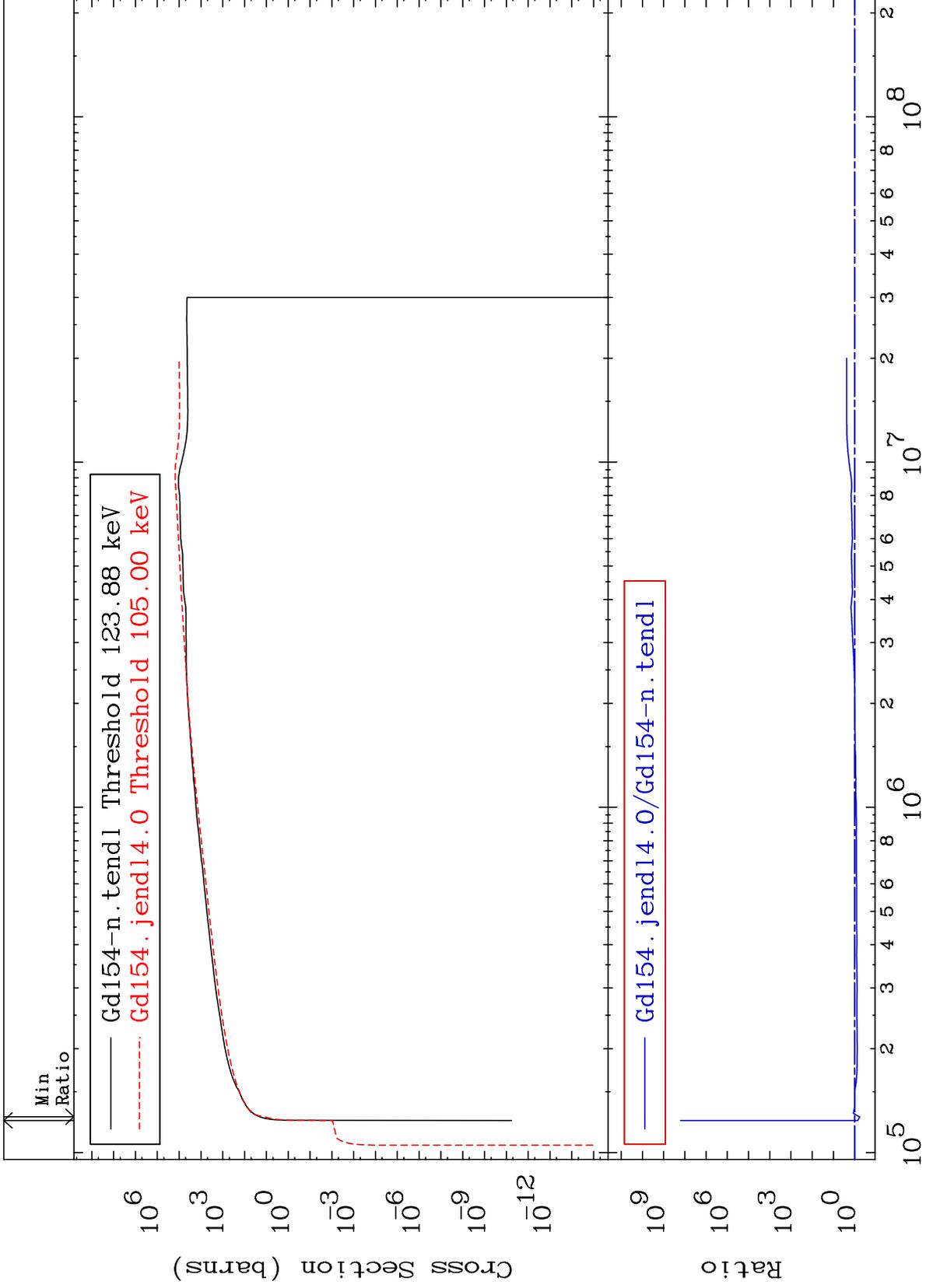
64-Gd-154  
-99.98 To 9999. %



56

Incident Energy (eV)

64-Gd-154



MAT 6431

Dpa disappearance (mt102 -120)  
Cross Section

64-Gd-154  
-99.89 To 9999. %

