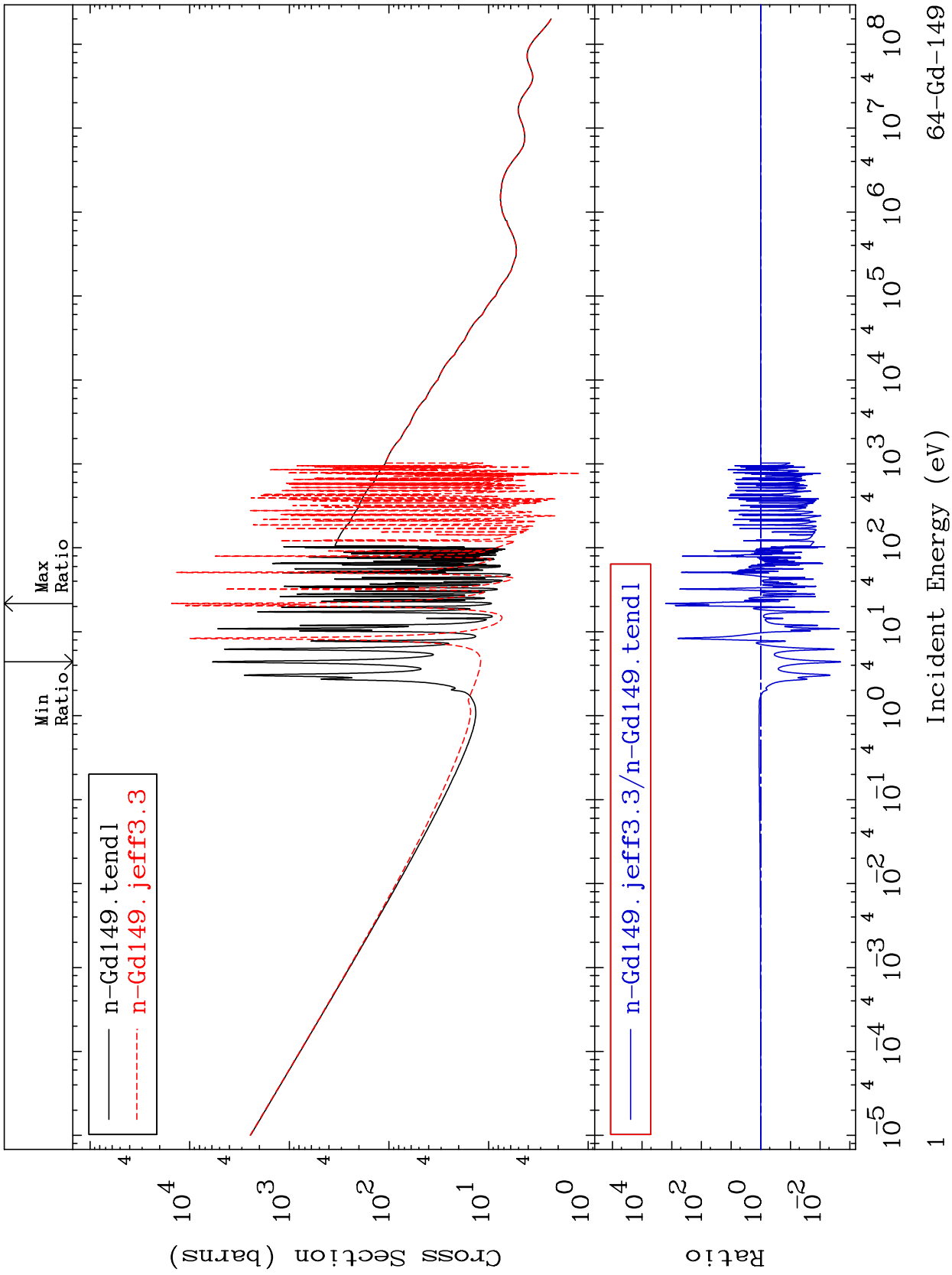


MAT 6416

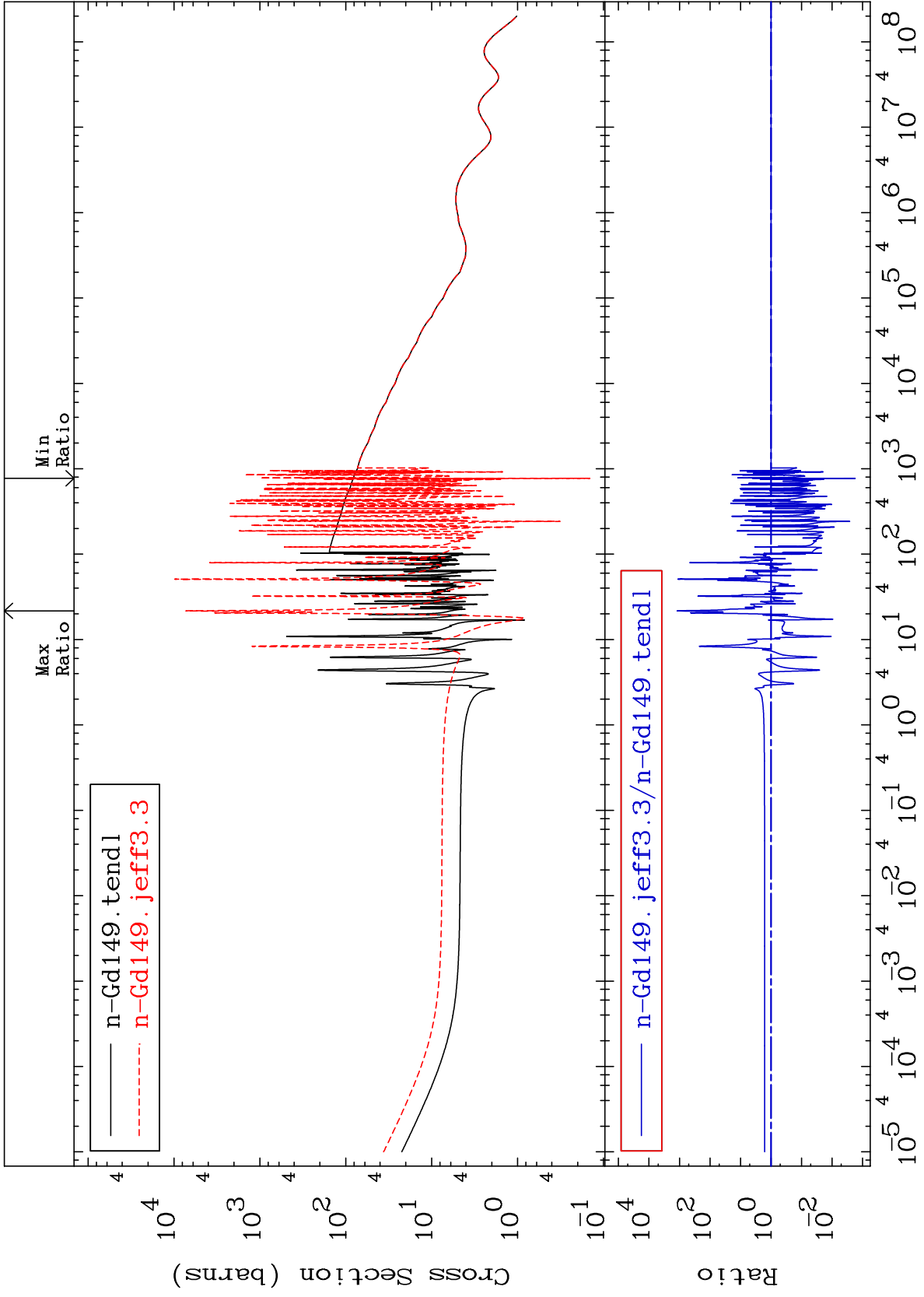
Total  
Cross Section

64-Gd-149  
-99.80 To 9999. %



MAT 6416

Elastic Cross Section  
64-Gd-149  
-99.82 To 9999. %



2

Incident Energy (eV)

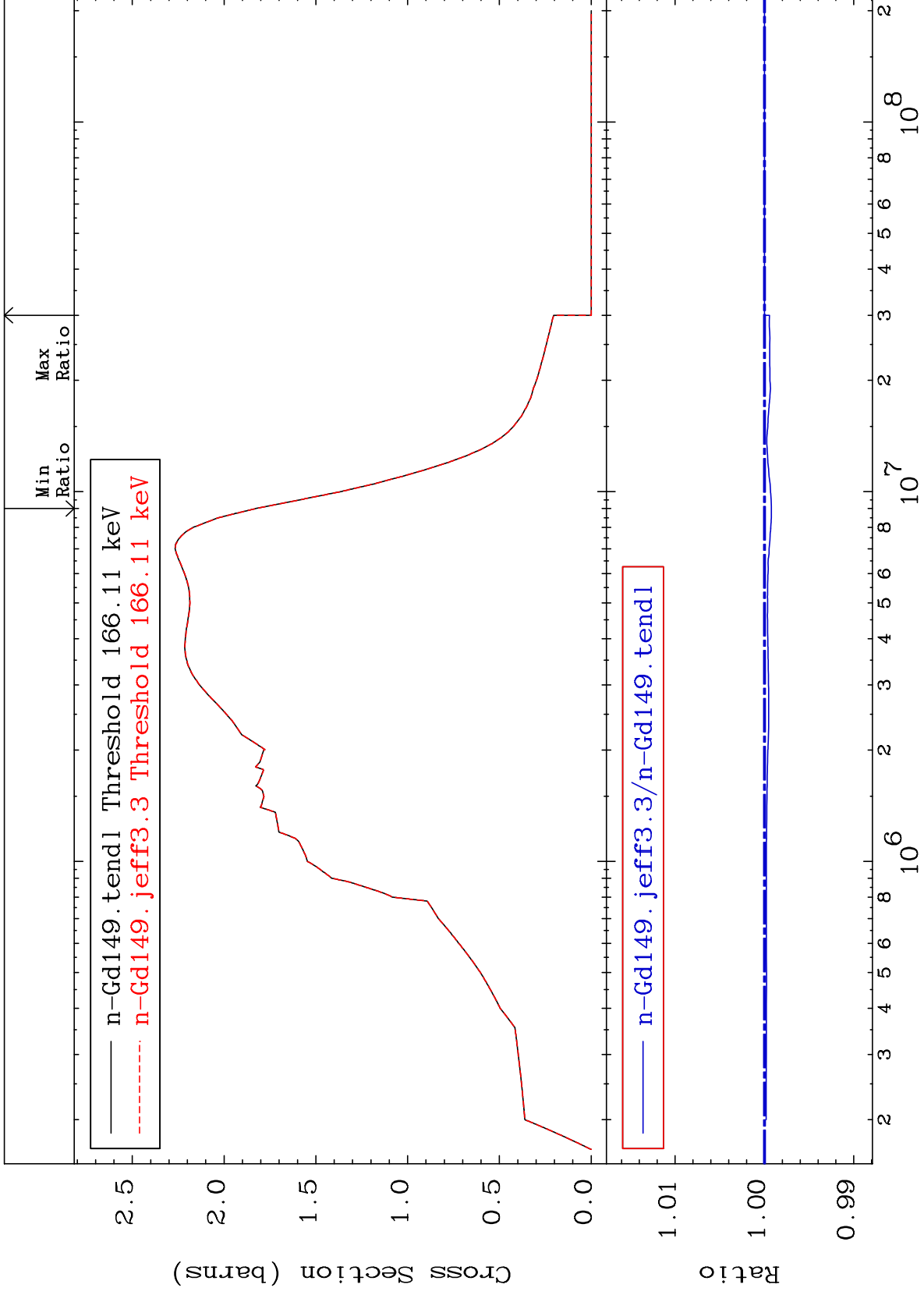
64-Gd-149

MAT 6416

64-Gd-149

Inelastic  
Cross Section

-0.078 To 0.000 %



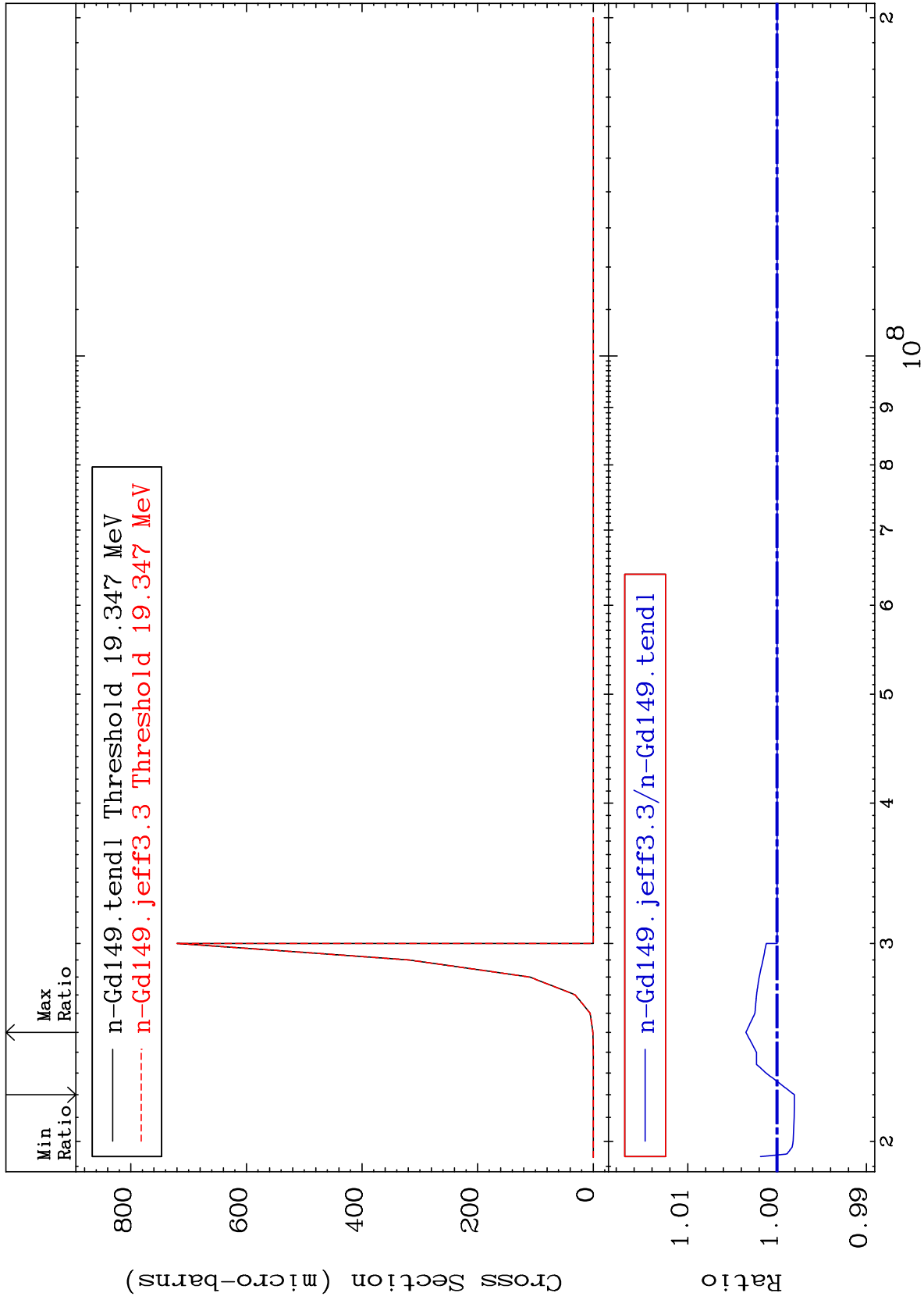
MAT 6416

(n,2n) d

64-Gd-149

Cross Section

-0.194 To 0.349 %



4

Incident Energy (eV)

64-Gd-149

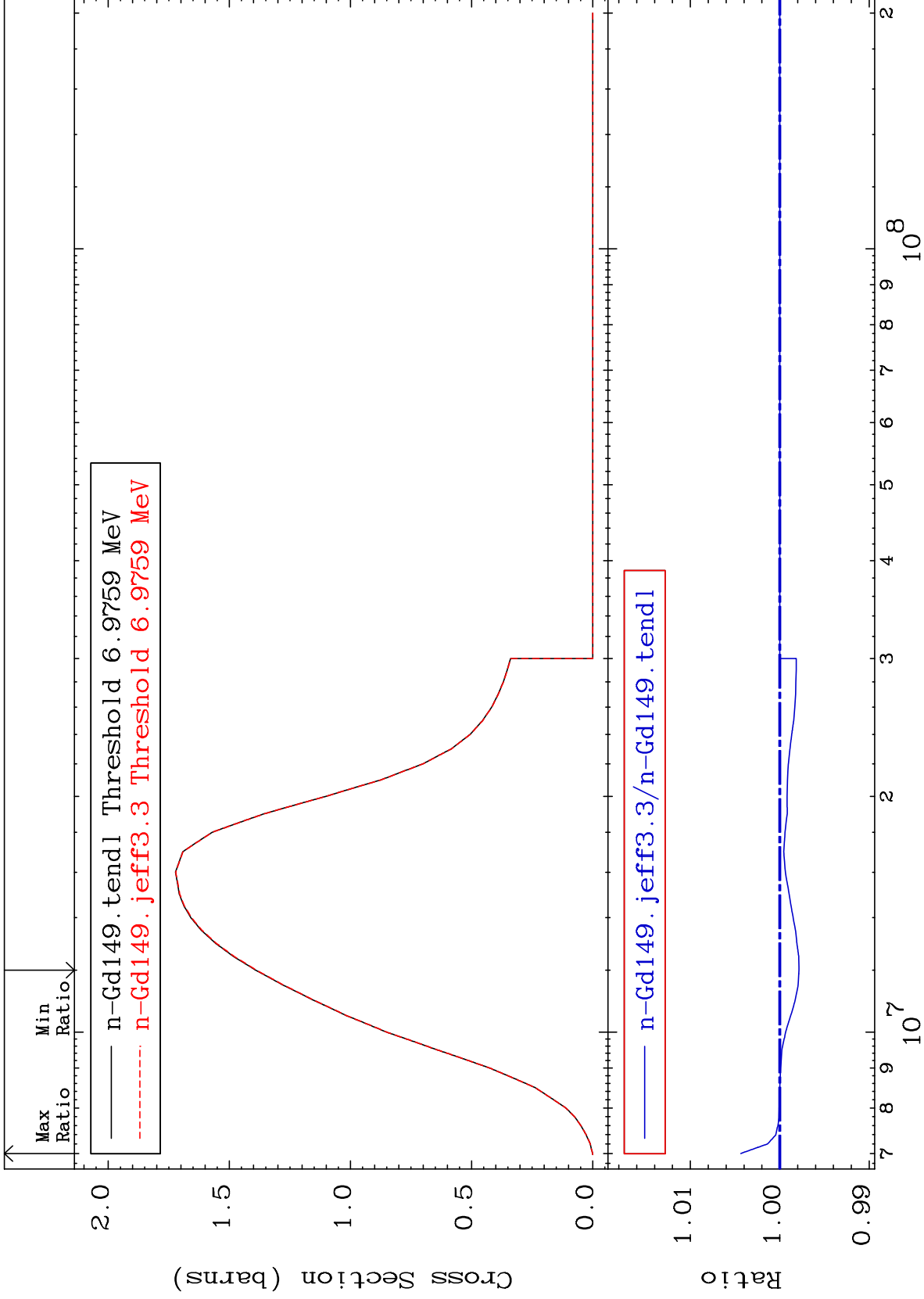
MAT 6416

(n,2n)

64-Gd-149

Cross Section

-0.215 To 0.436 %



5

Incident Energy (eV)

64-Gd-149

MAT 6416

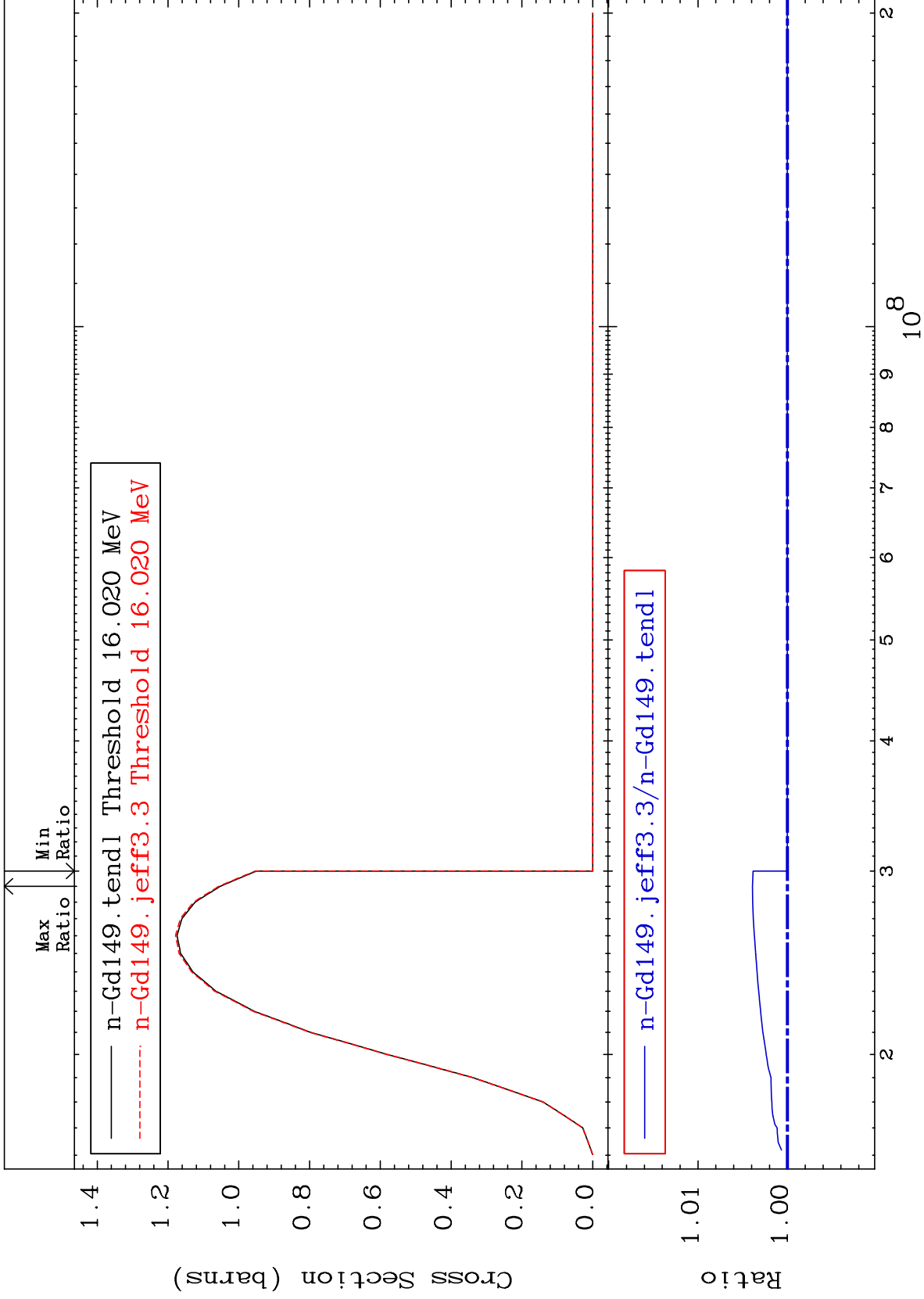
(n,3n)

64-Gd-149

Cross Section

0.000

To 0.390 %



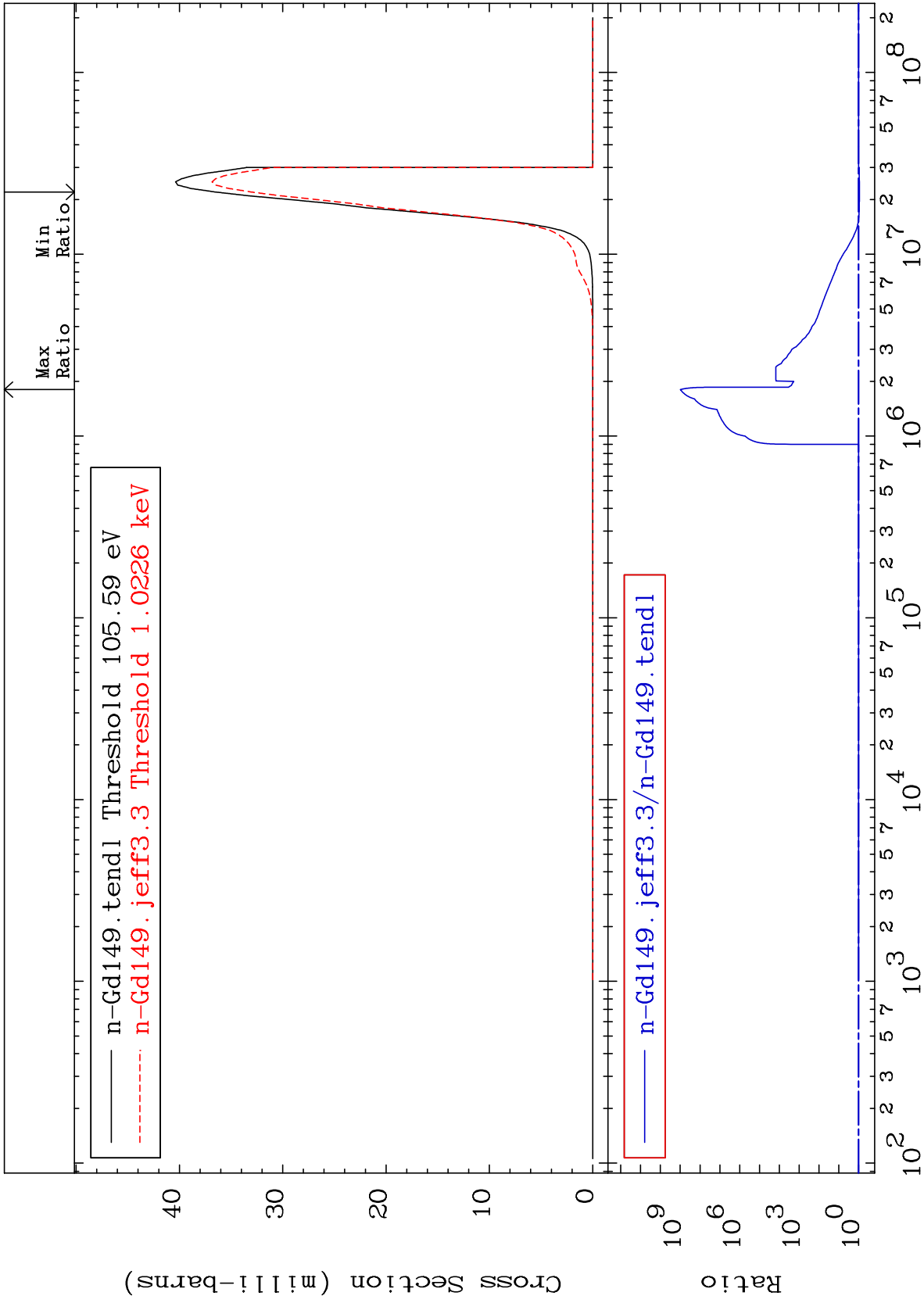
MAT 6416

$(n, n') \alpha$

64-Gd-149

Cross Section

-9.519 To 9999. %



Incident Energy (eV)

64-Gd-149

7

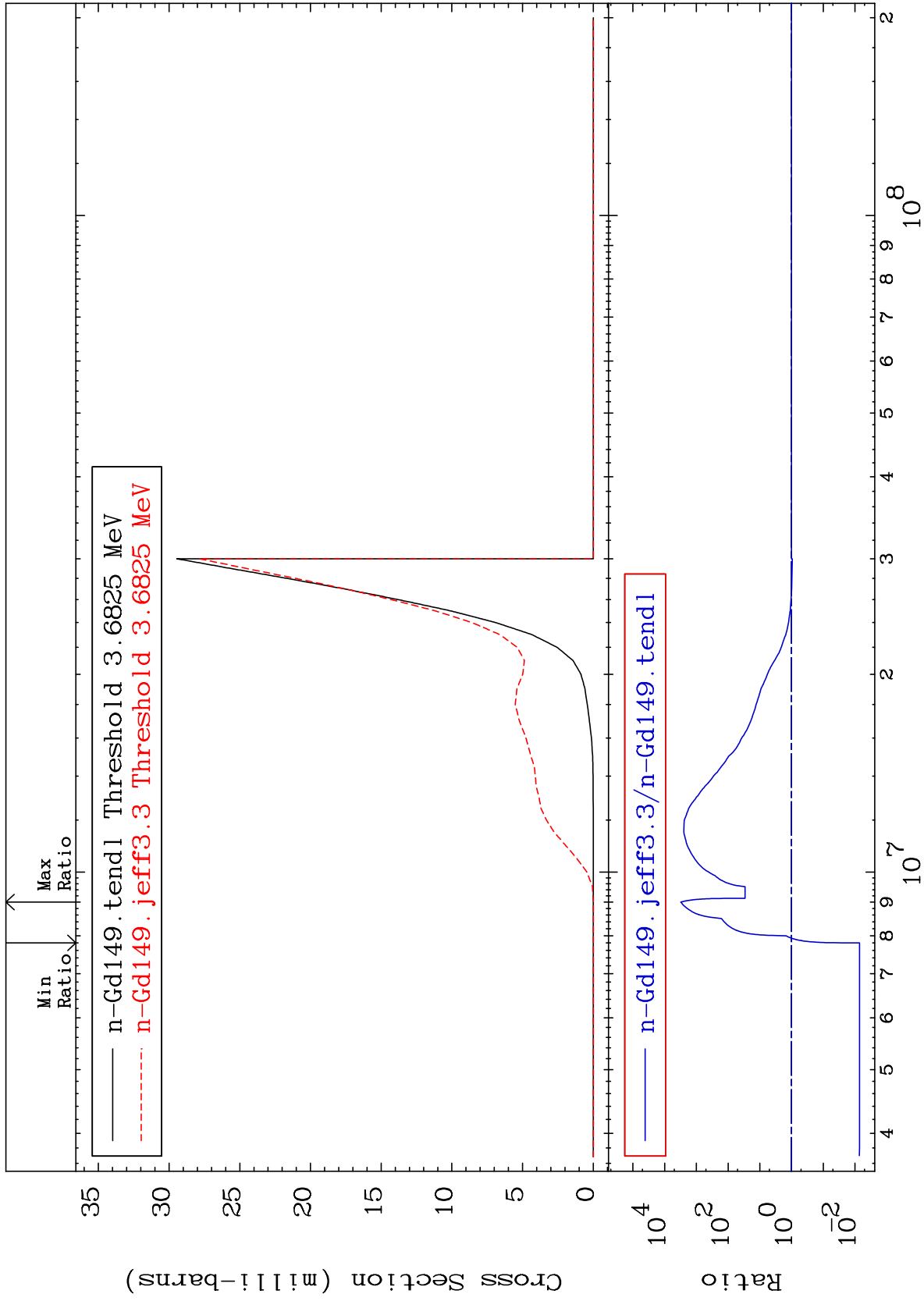
MAT 6416

(n,2n)  $\alpha$

64-Gd-149

Cross Section

-99.28 To 9999. %



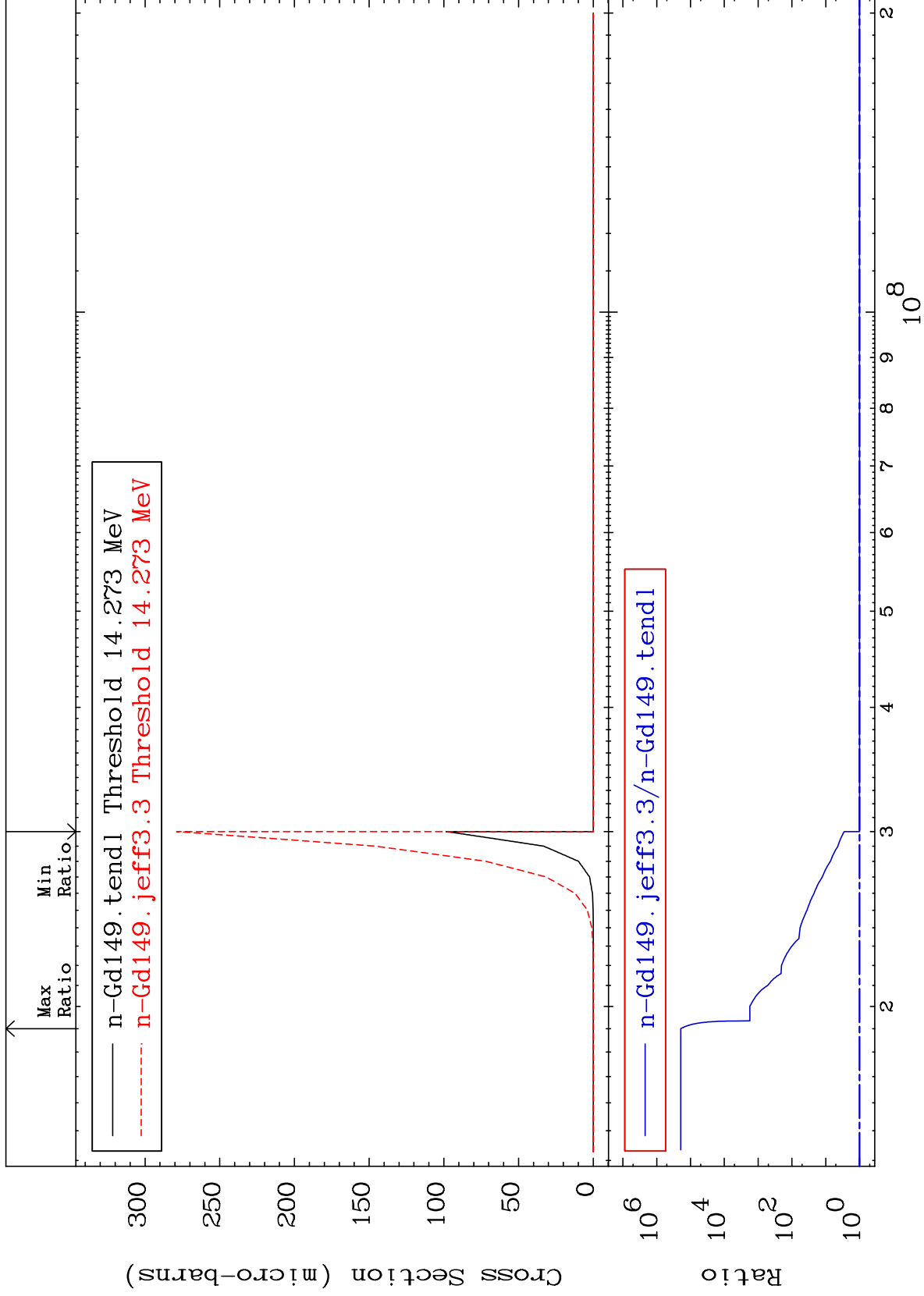


MAT 6416

(n,3n)  $\alpha$

64-Gd-149  
To 9999. %  
0.000

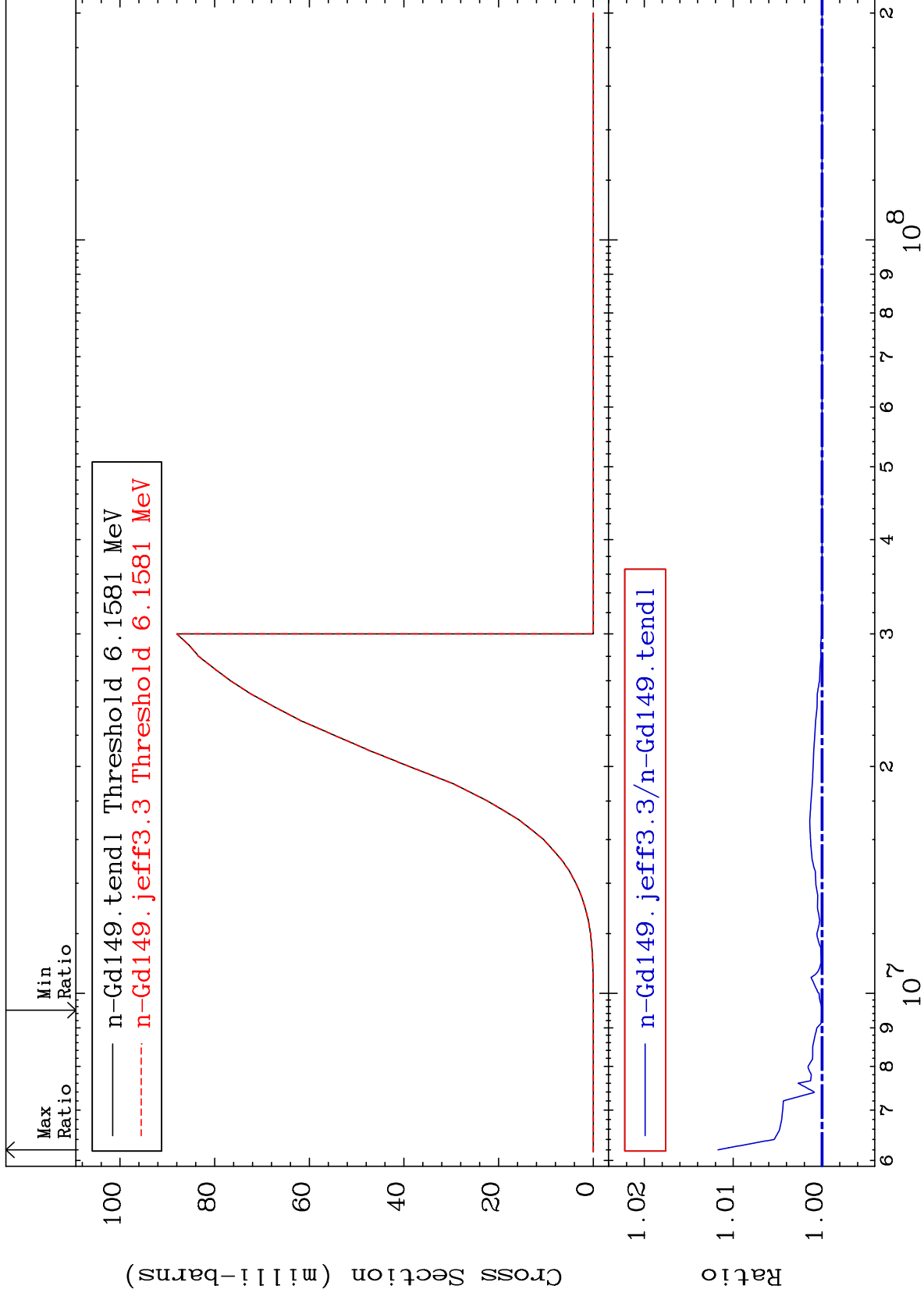
Cross Section



MAT 6416

(n,n') p  
Cross Section

64-Gd-149  
-0.003 To 1.171 %



10

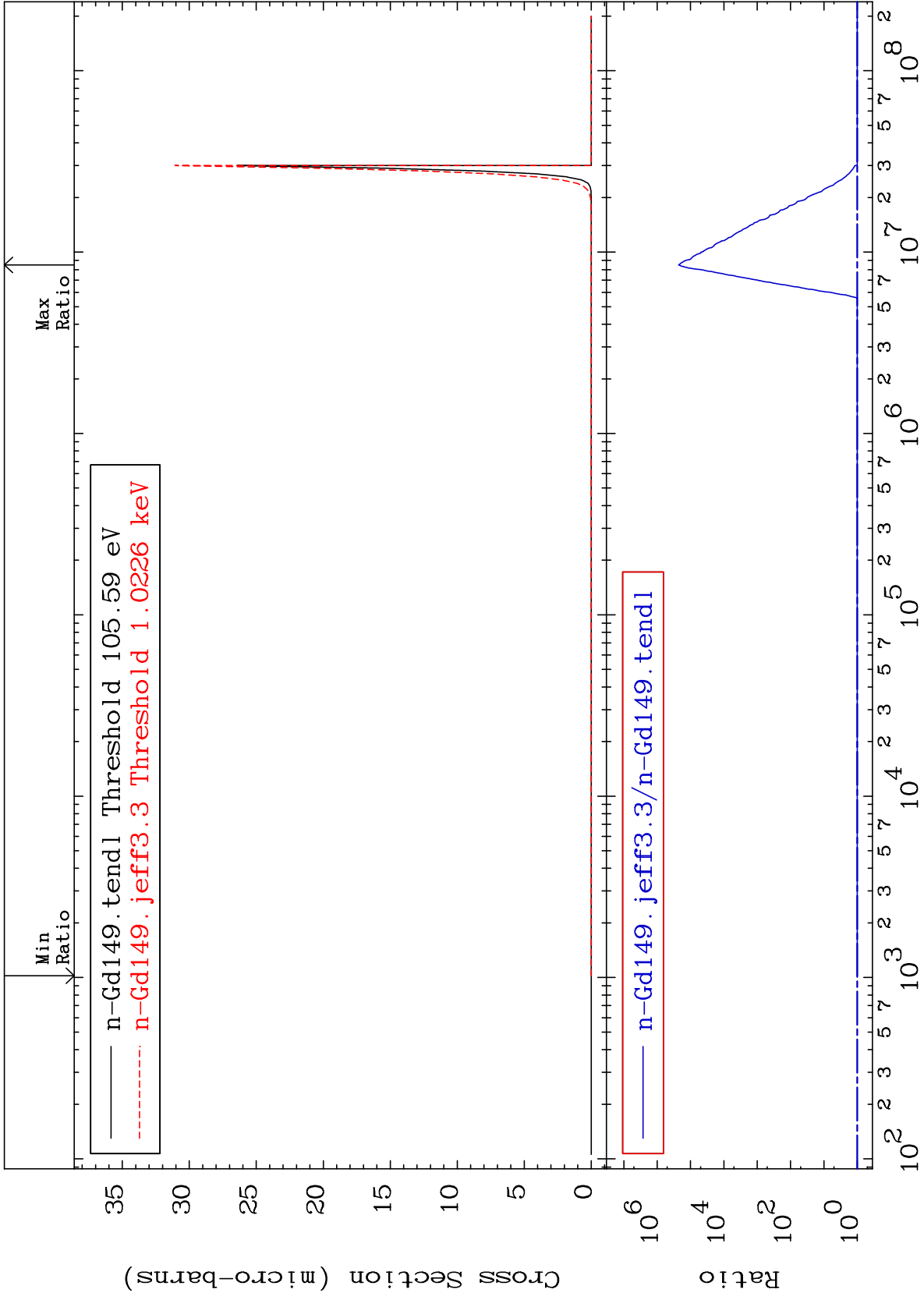
Incident Energy (eV)

64-Gd-149

MAT 6416

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

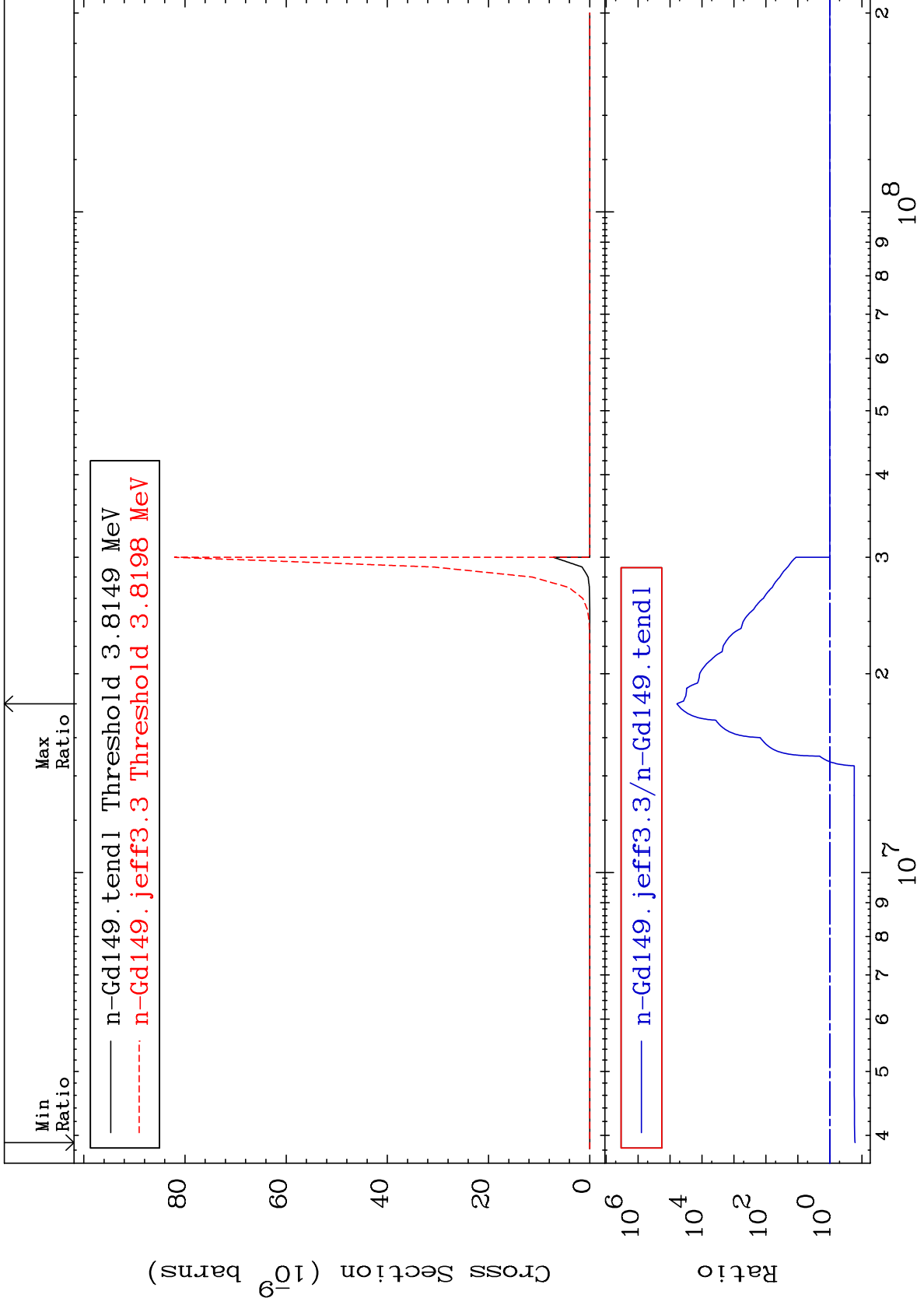
64-Gd-149  
To 9999. %



MAT 6416

(n,2n) 2α  
Cross Section

64-Gd-149  
-83.74 To 9999. %



12

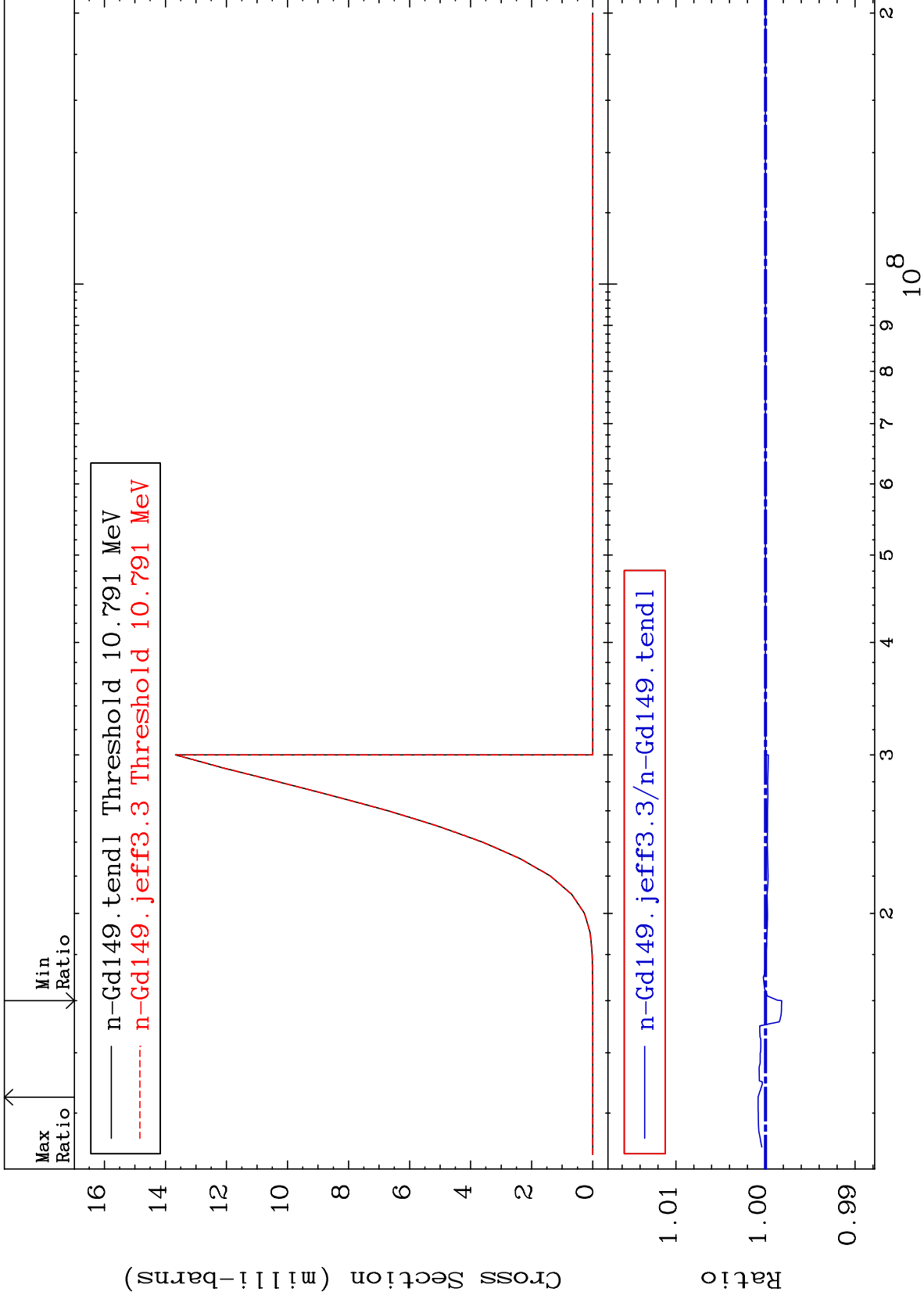
MAT 6416

(n,n') d

64-Gd-149

Cross Section

-0.182 To 0.083 %



13

Incident Energy (eV)

64-Gd-149

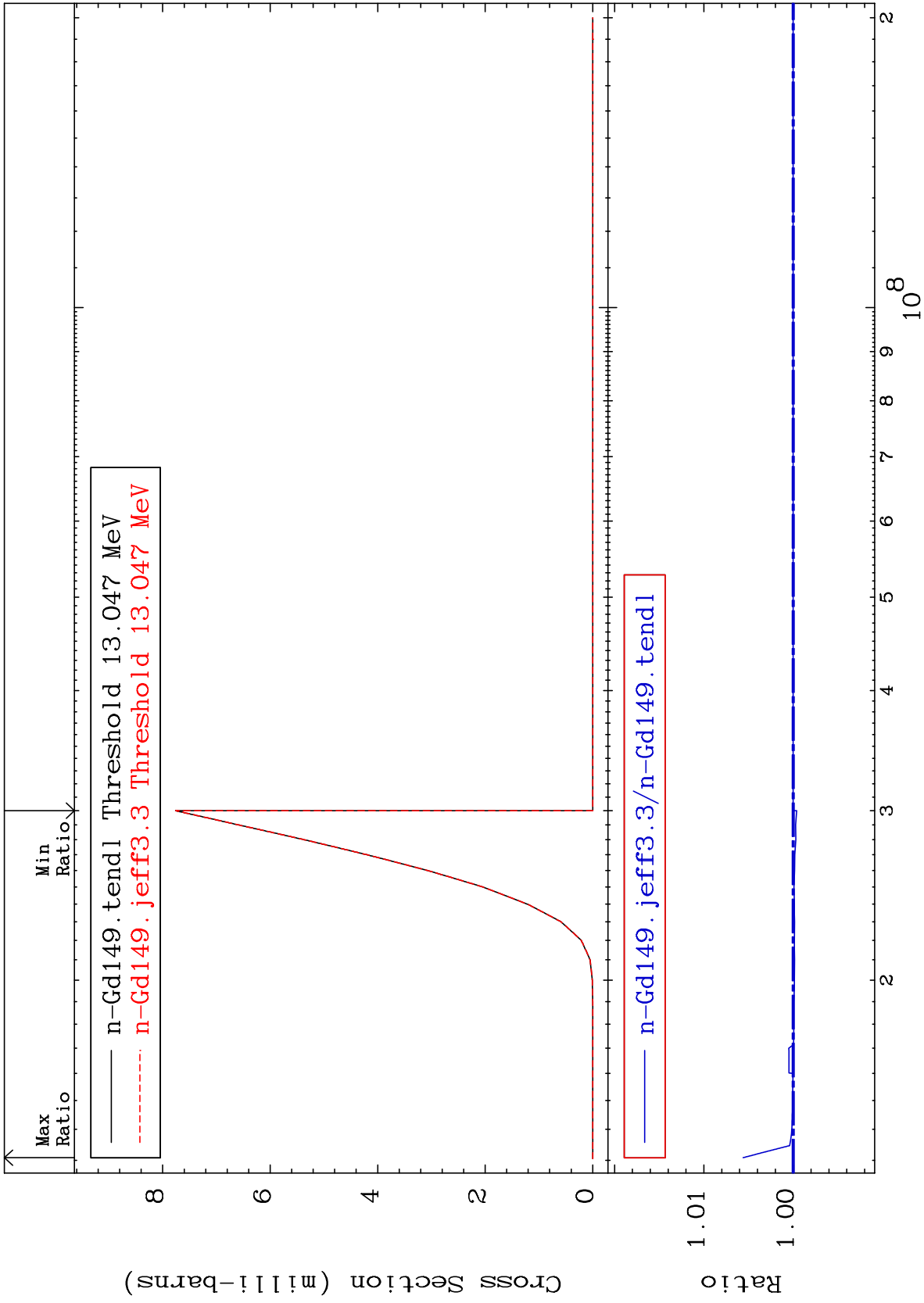
MAT 6416

(n, n') t

64-Gd-149

Cross Section

-0.040 To 0.561 %



14

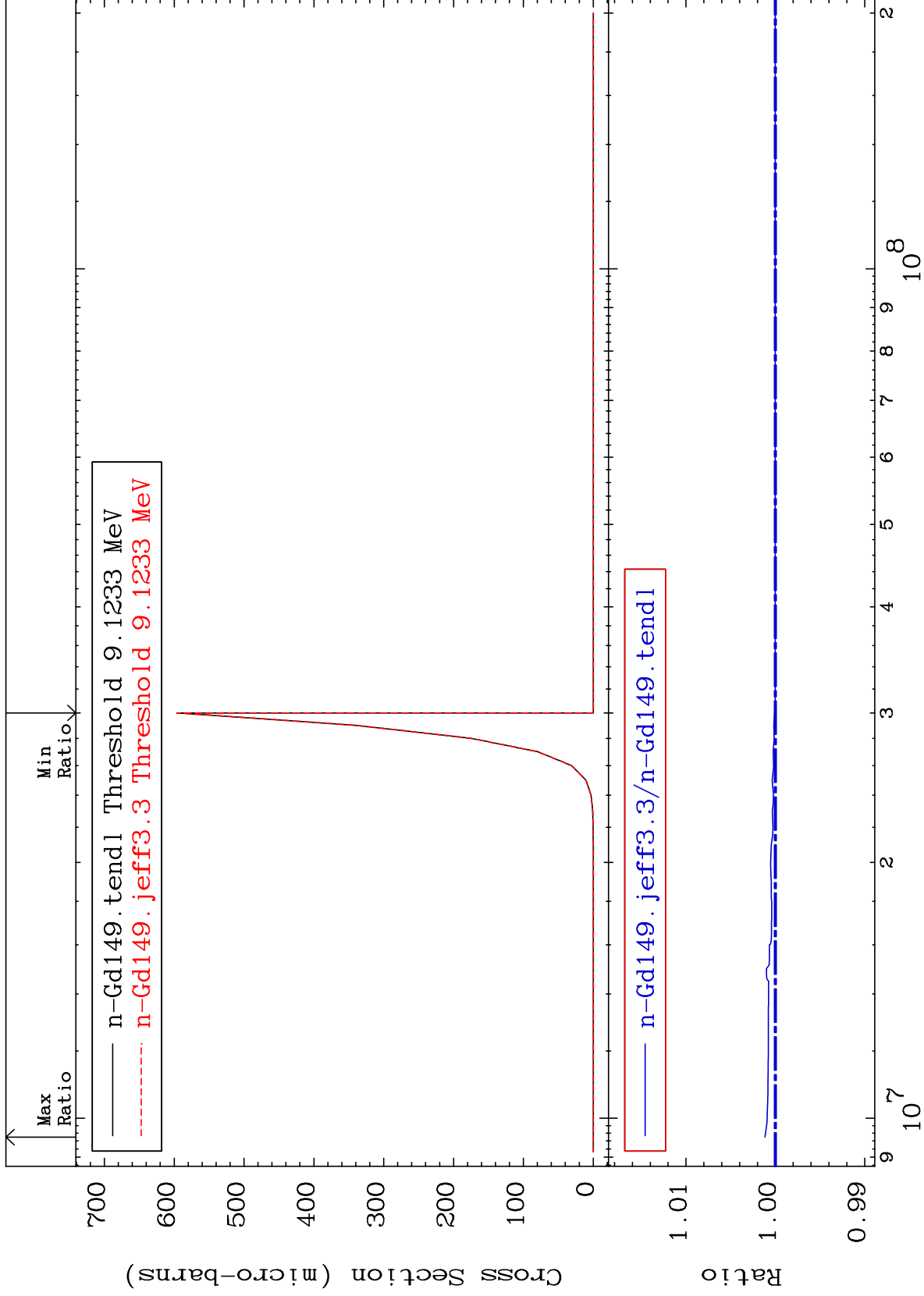
64-Gd-149

64-Gd-149

MAT 6416

(n, n') He-3  
Cross Section

64-Gd-149  
To 0.115 %



15

64-Gd-149

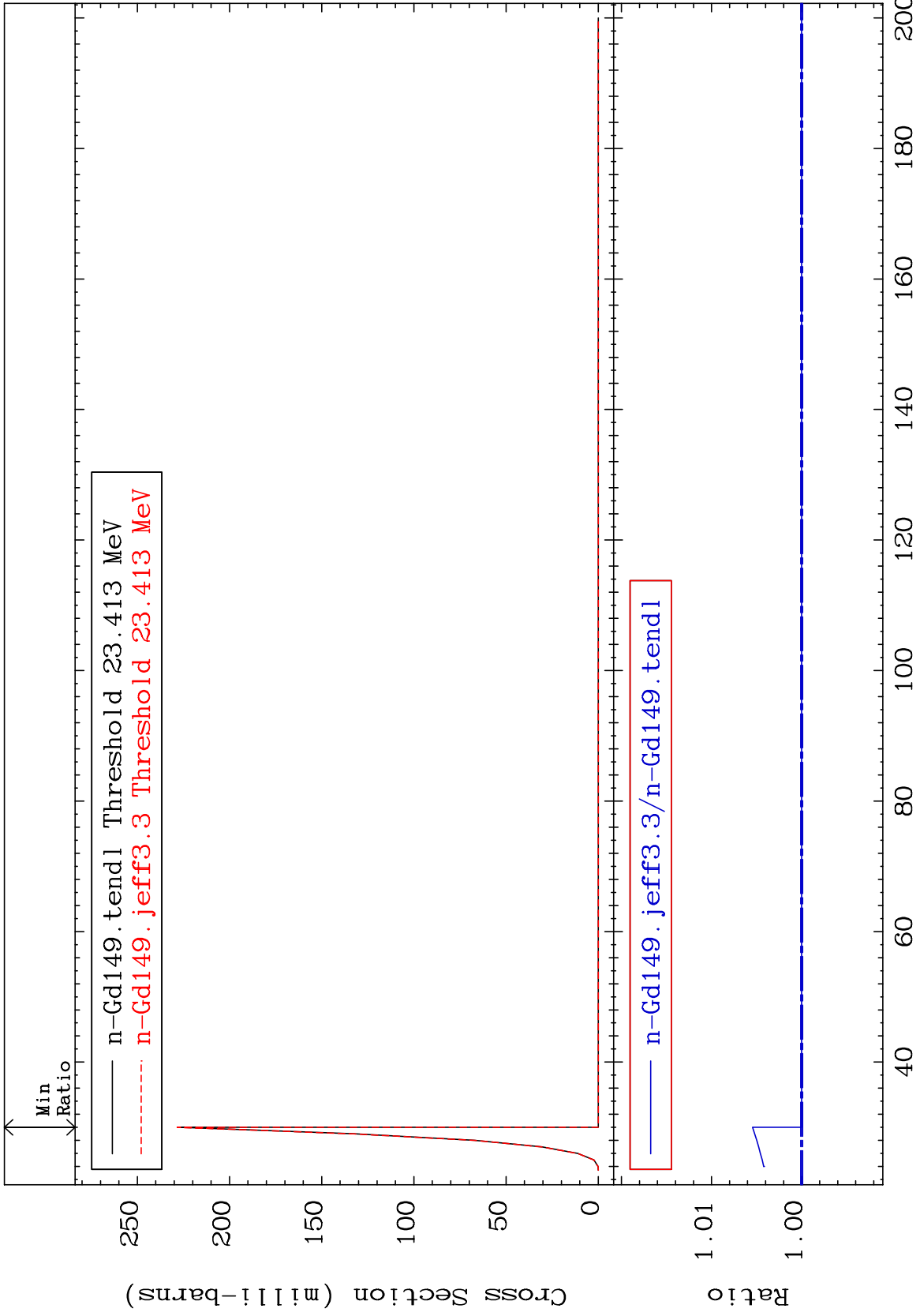
MAT 6416

(n,4n)

64-Gd-149

Cross Section

0.000 To 0.545 %

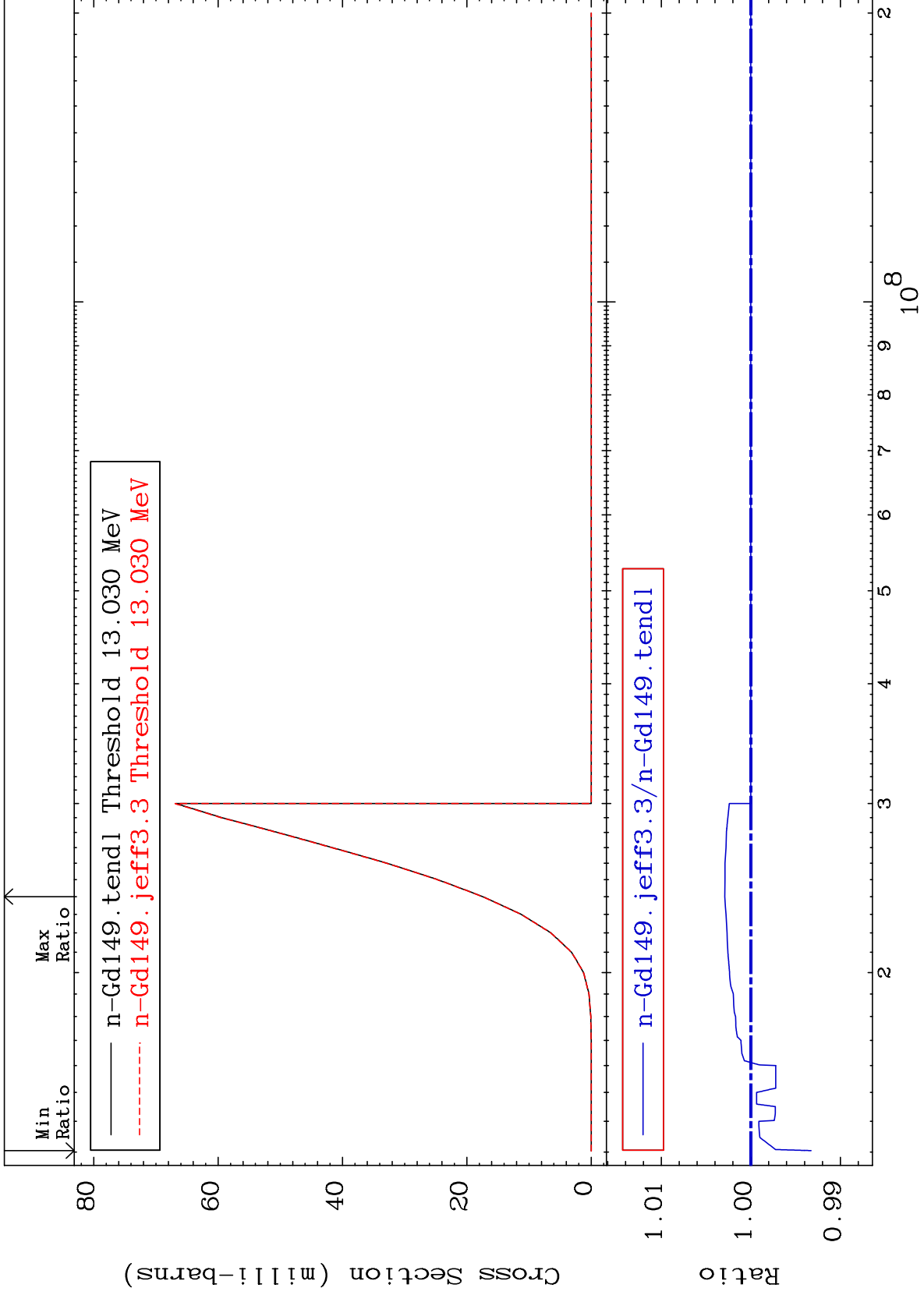




MAT 6416

(n,2n) p  
Cross Section

64-Gd-149  
-0.673 To 0.291 %



17

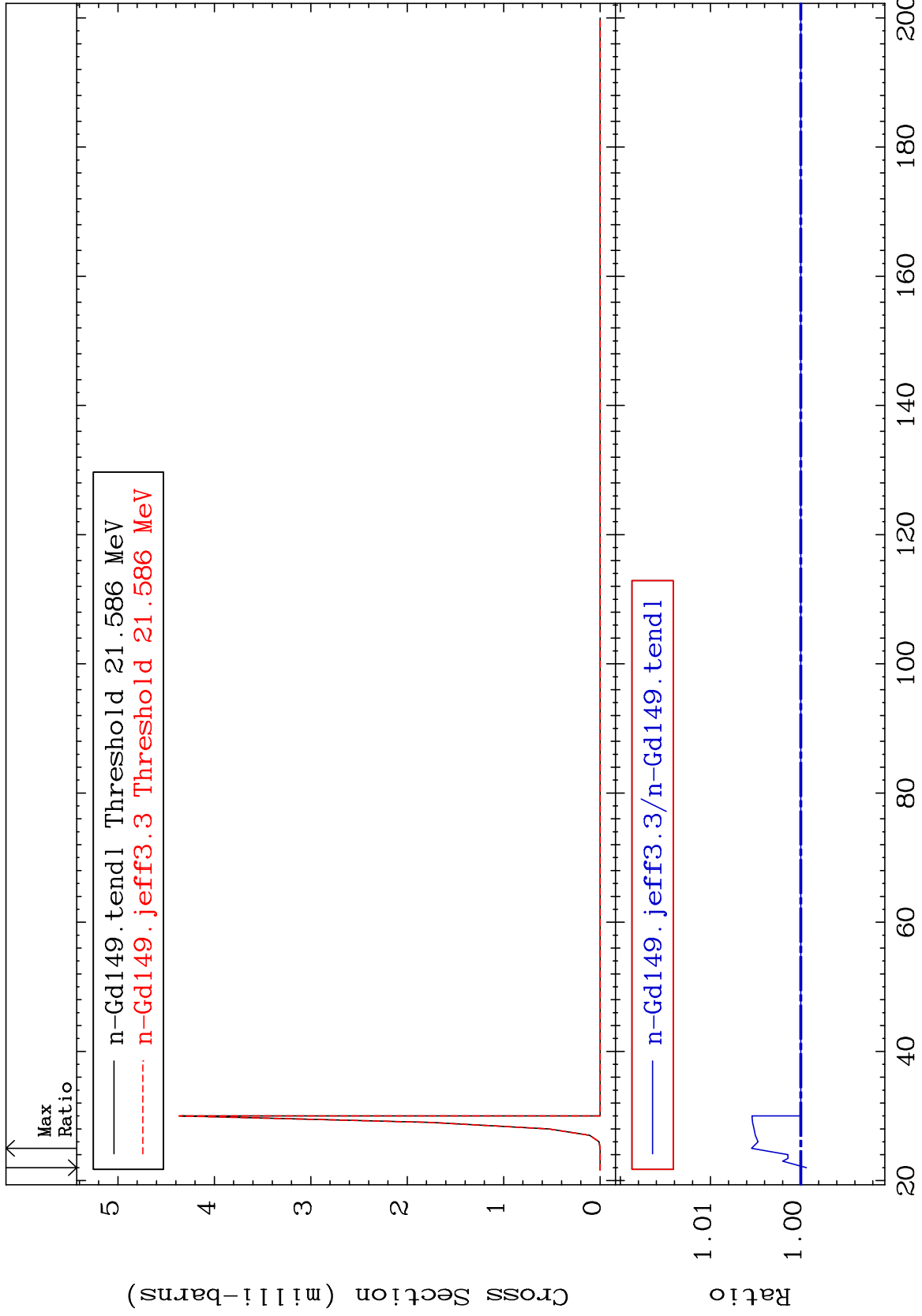
Incident Energy (eV)

64-Gd-149

MAT 6416

(n,3n) p  
Cross Section

64-Gd-149  
-0.063 To 0.545 %



18

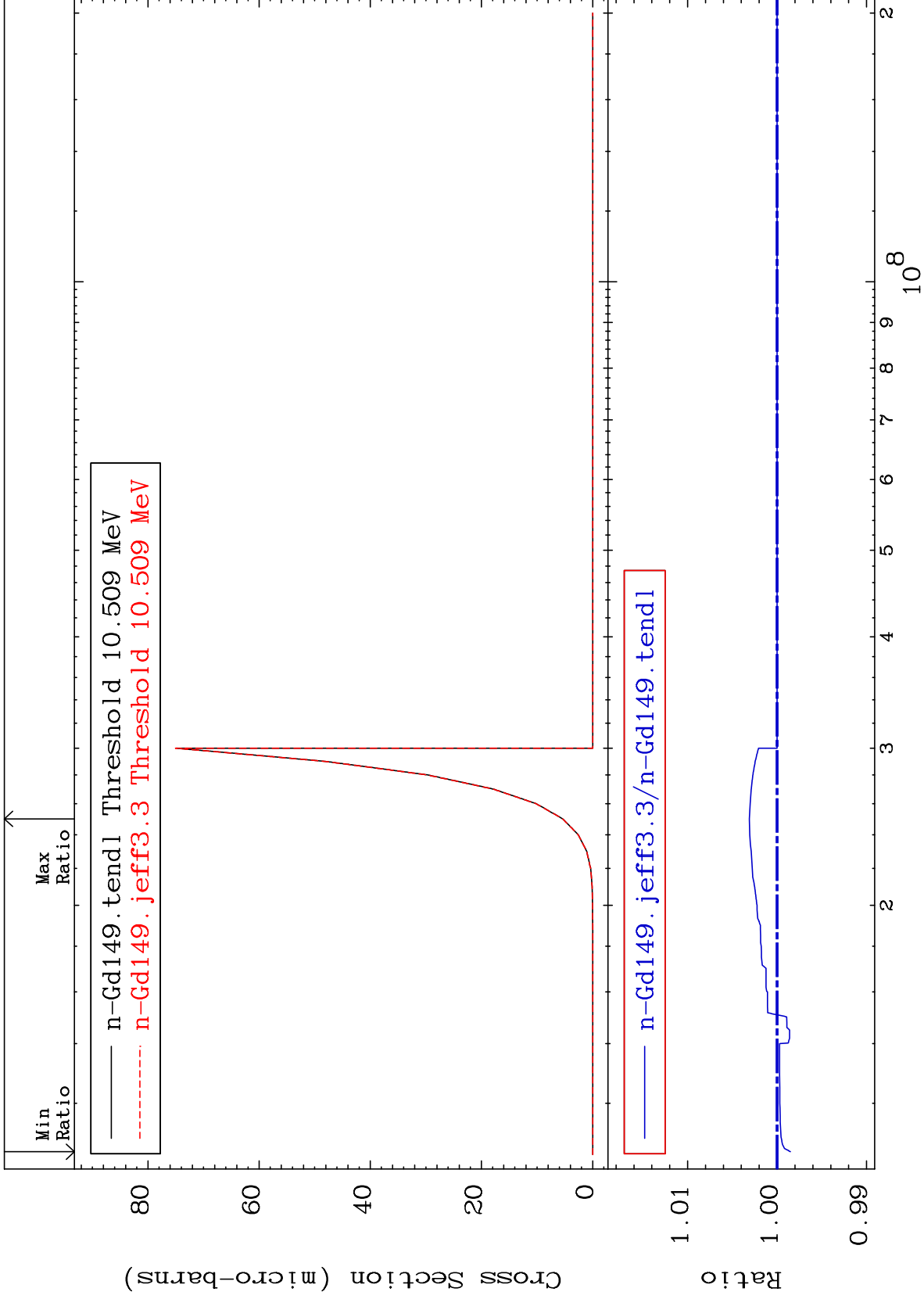
Incident Energy (MeV)

64-Gd-149

MAT 6416

(n,2n) p  
Cross Section

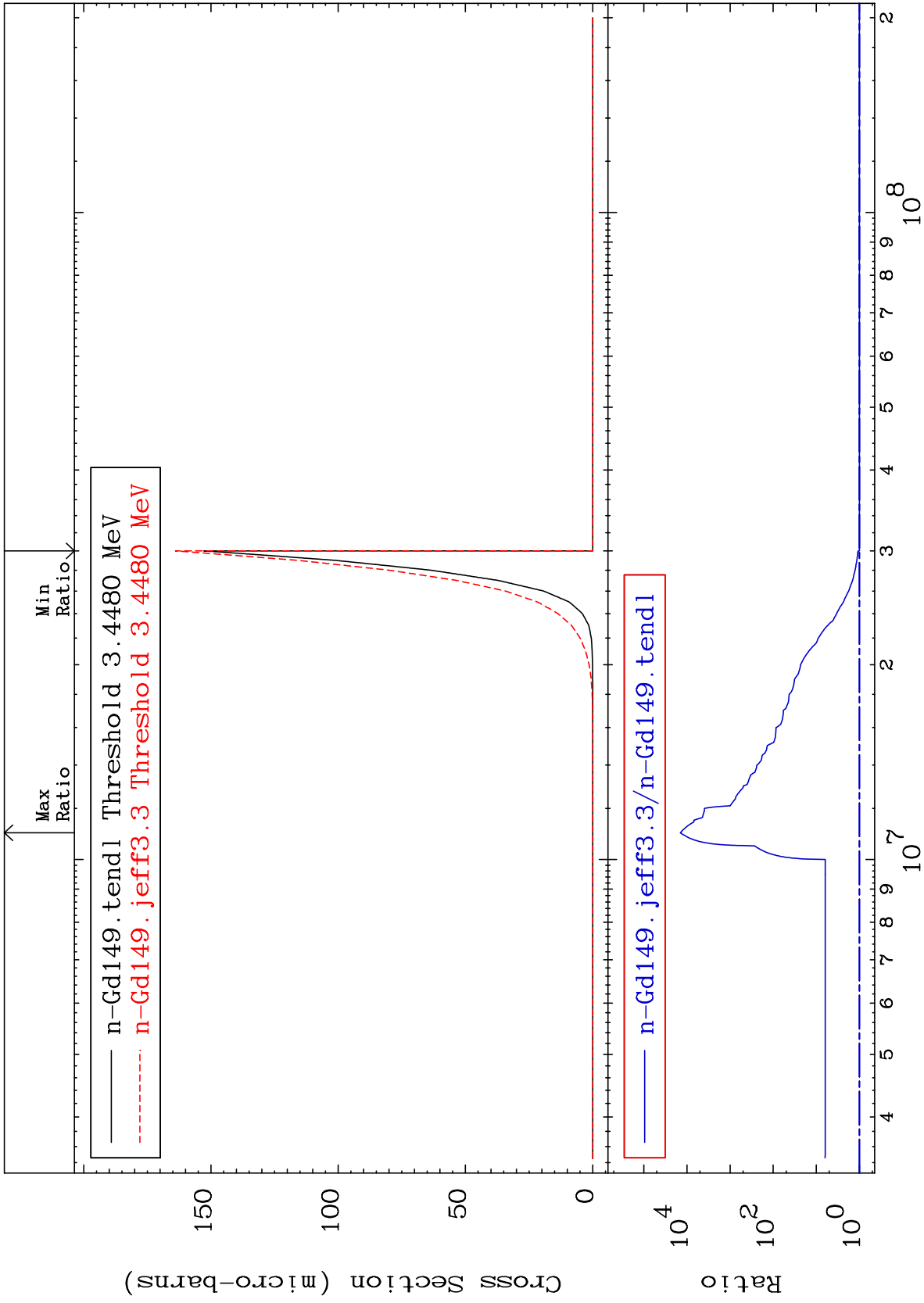
64-Gd-149  
-0.149 To 0.310 %



MAT 6416

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

64-Gd-149  
To 9999. %



20

Incident Energy (eV)

64-Gd-149

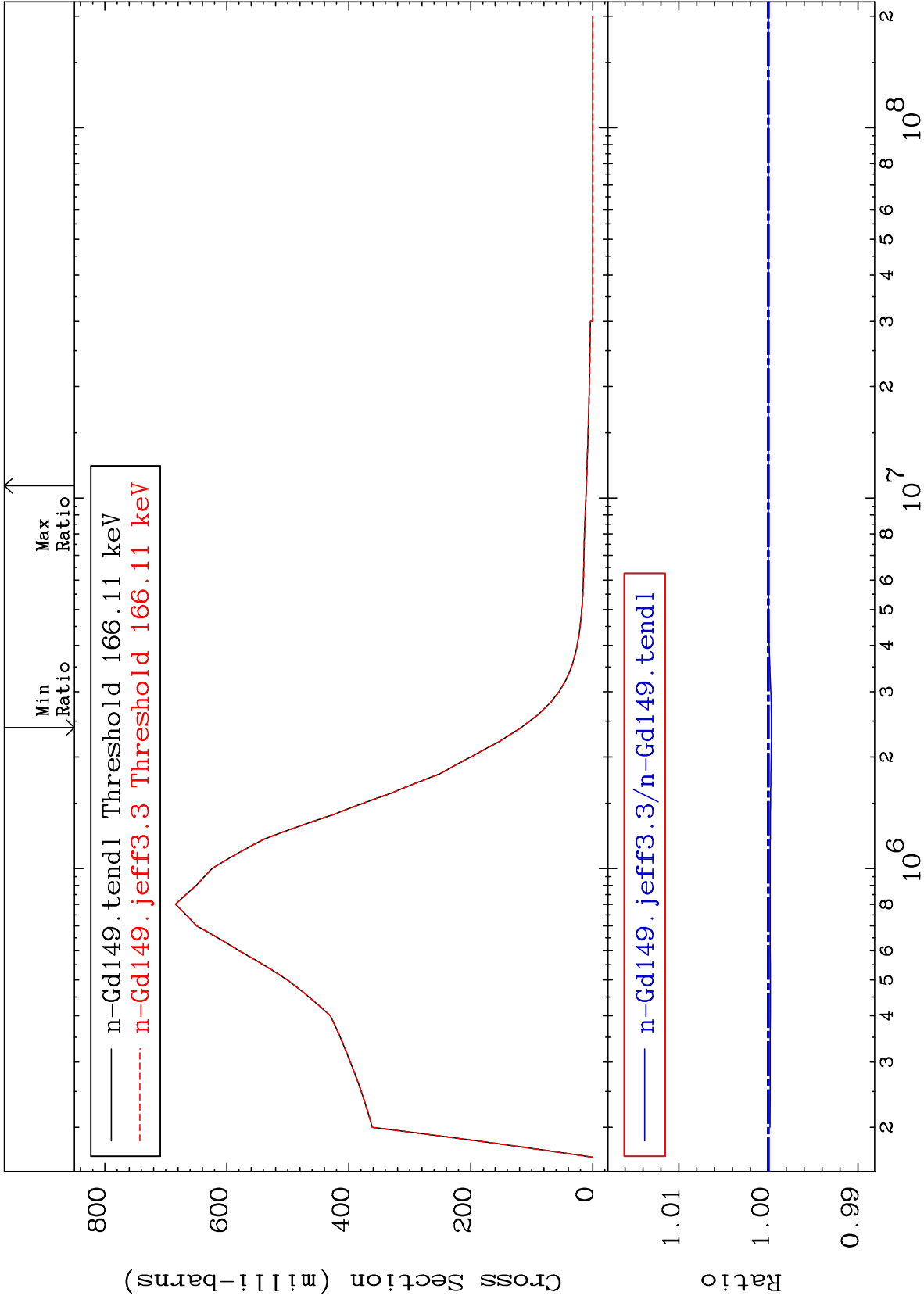
MAT 6416

MT= 51 (n,n') Level

64-Gd-149

-0.035 To 0.000 %

Cross Section



21

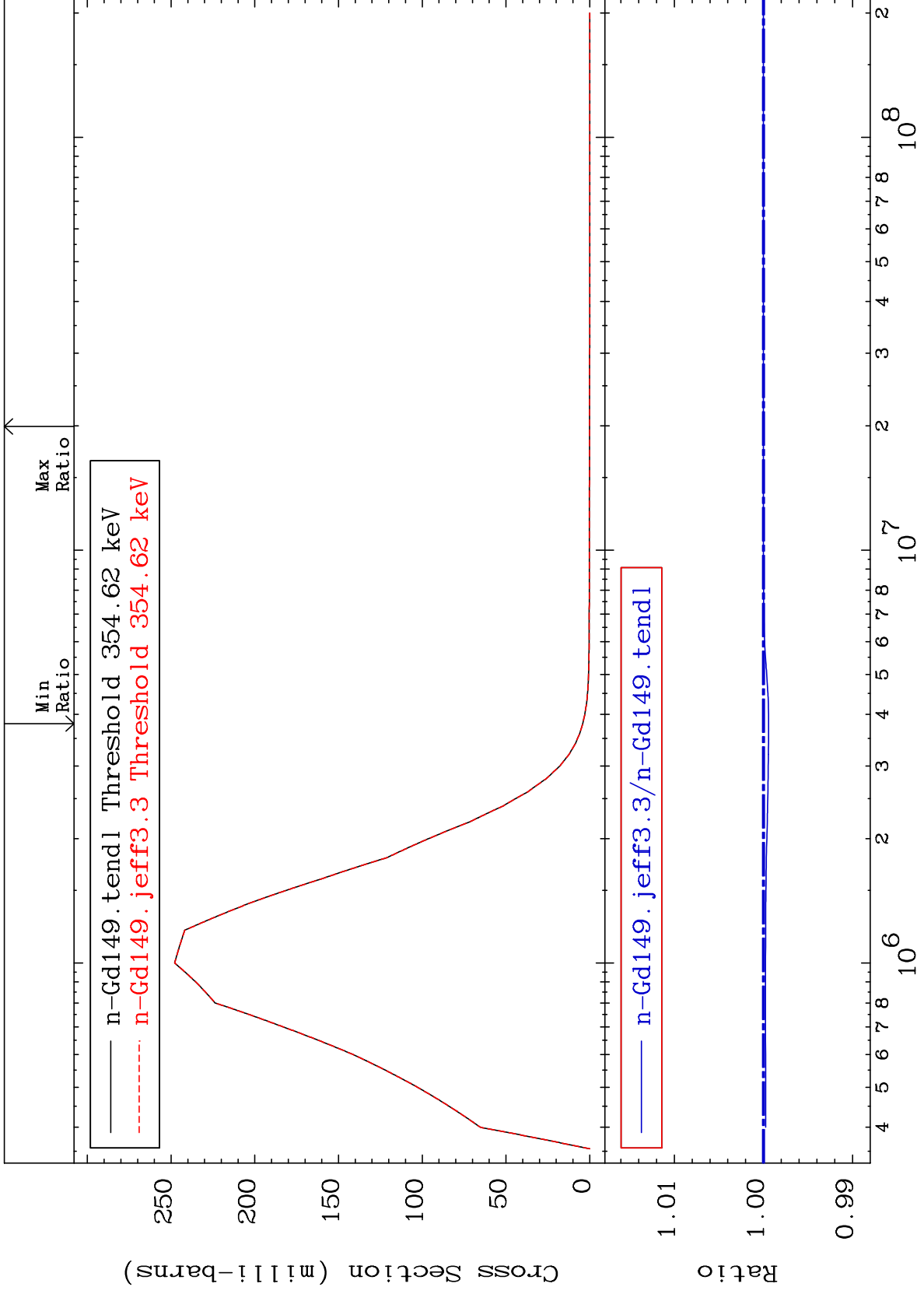
Incident Energy (eV)

64-Gd-149

MAT 6416

MT= 52 (n,n') Level  
Cross Section

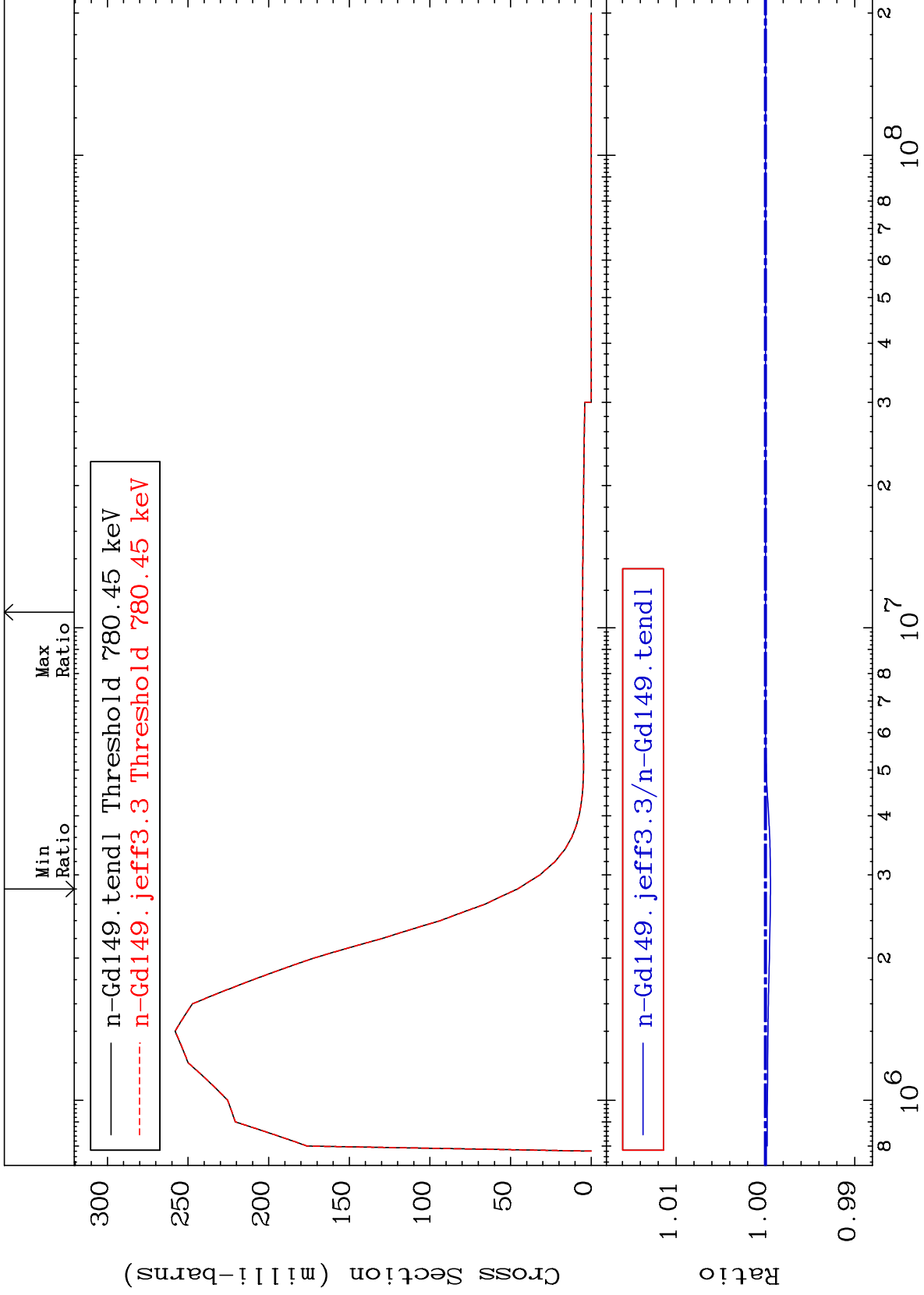
64-Gd-149  
-0.058 To 0.000 %



MAT 6416

MT= 53 (n,n') Level  
Cross Section

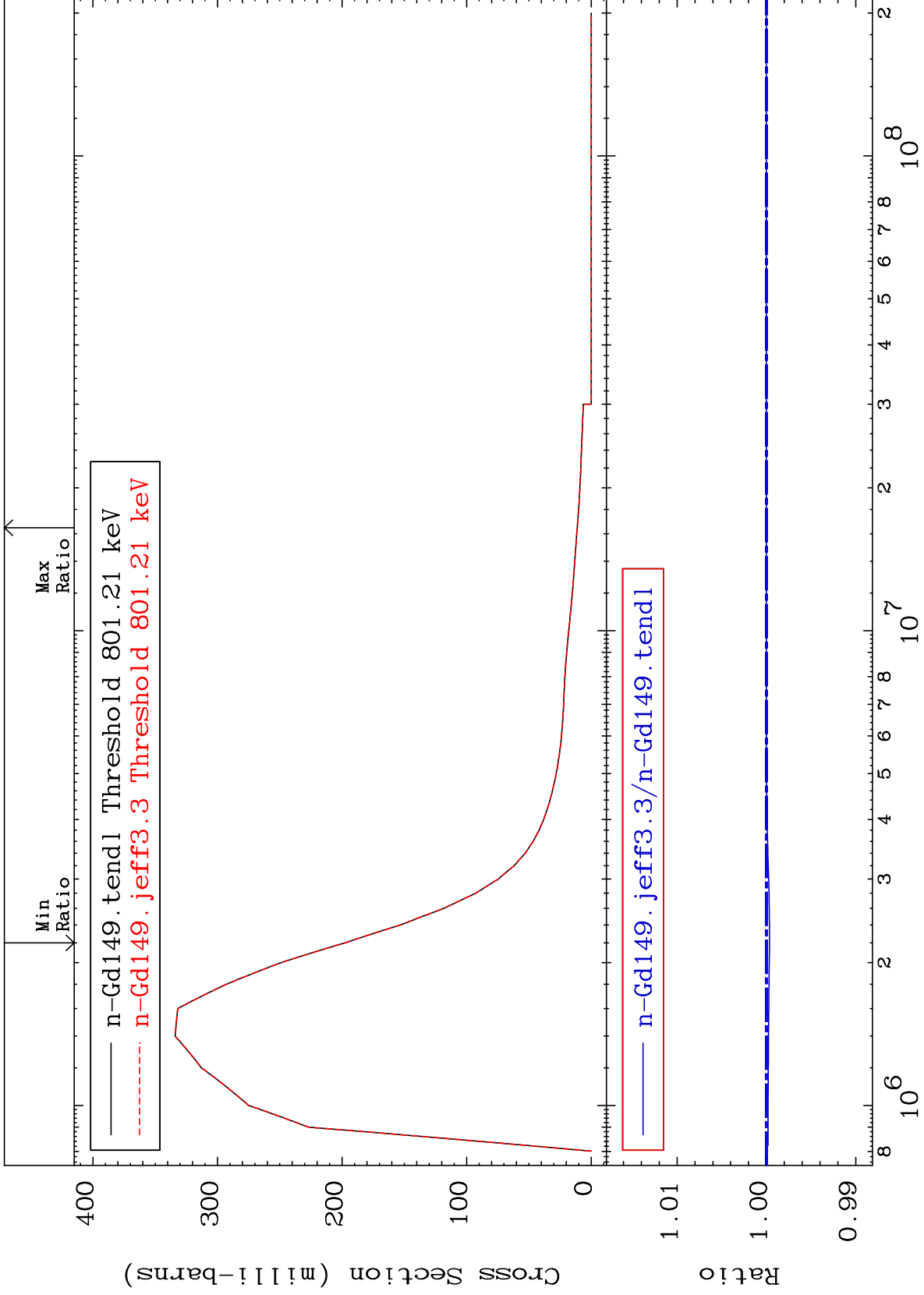
64-Gd-149  
-0.056 To 0.000 %



MAT 6416

MT= 54 (n,n') Level  
Cross Section

64-Gd-149  
-0.034 To 0.000 %

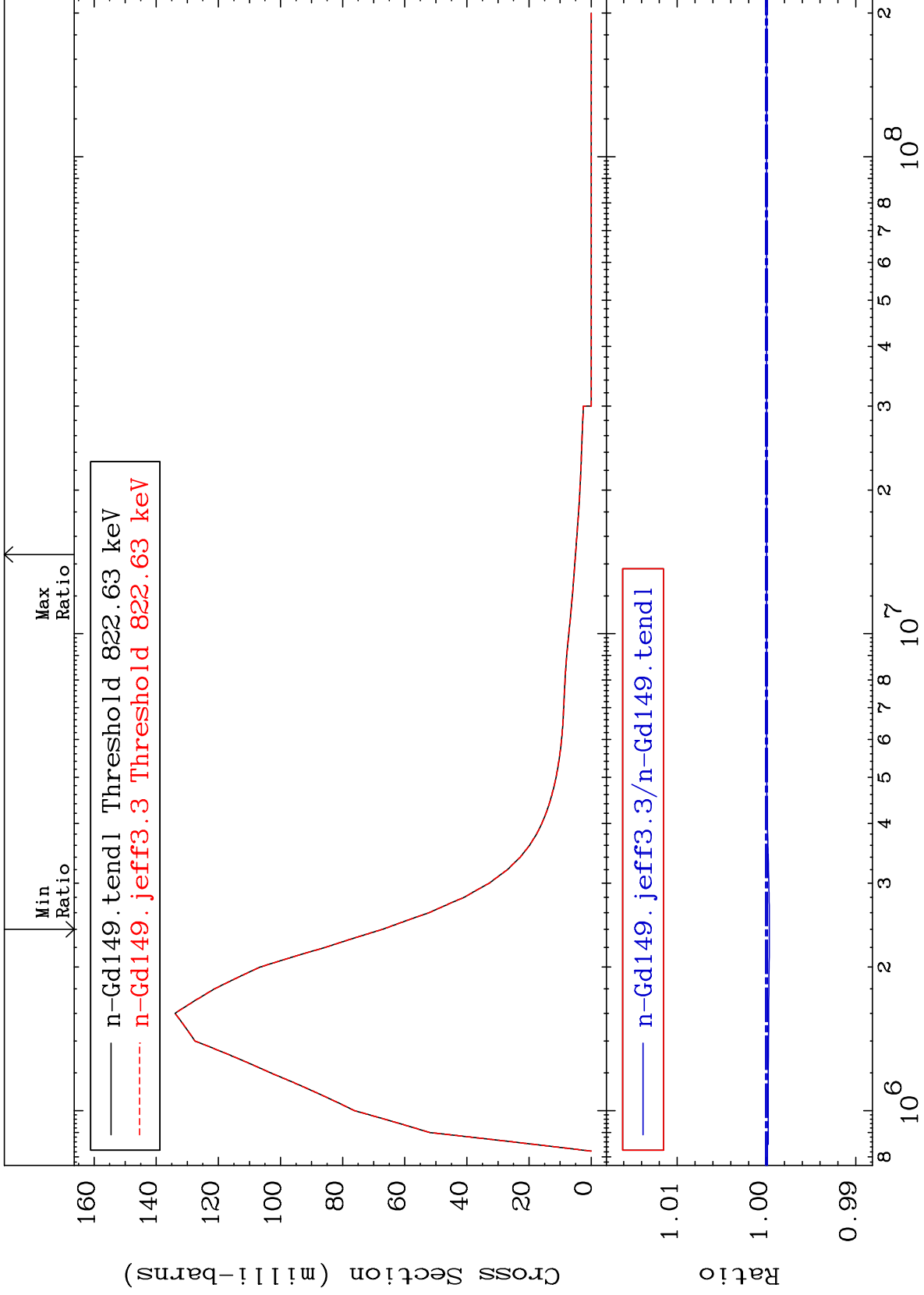




MAT 6416

MT= 55 (n,n') Level  
Cross Section

64-Gd-149  
-0.032 To 0.000 %



25

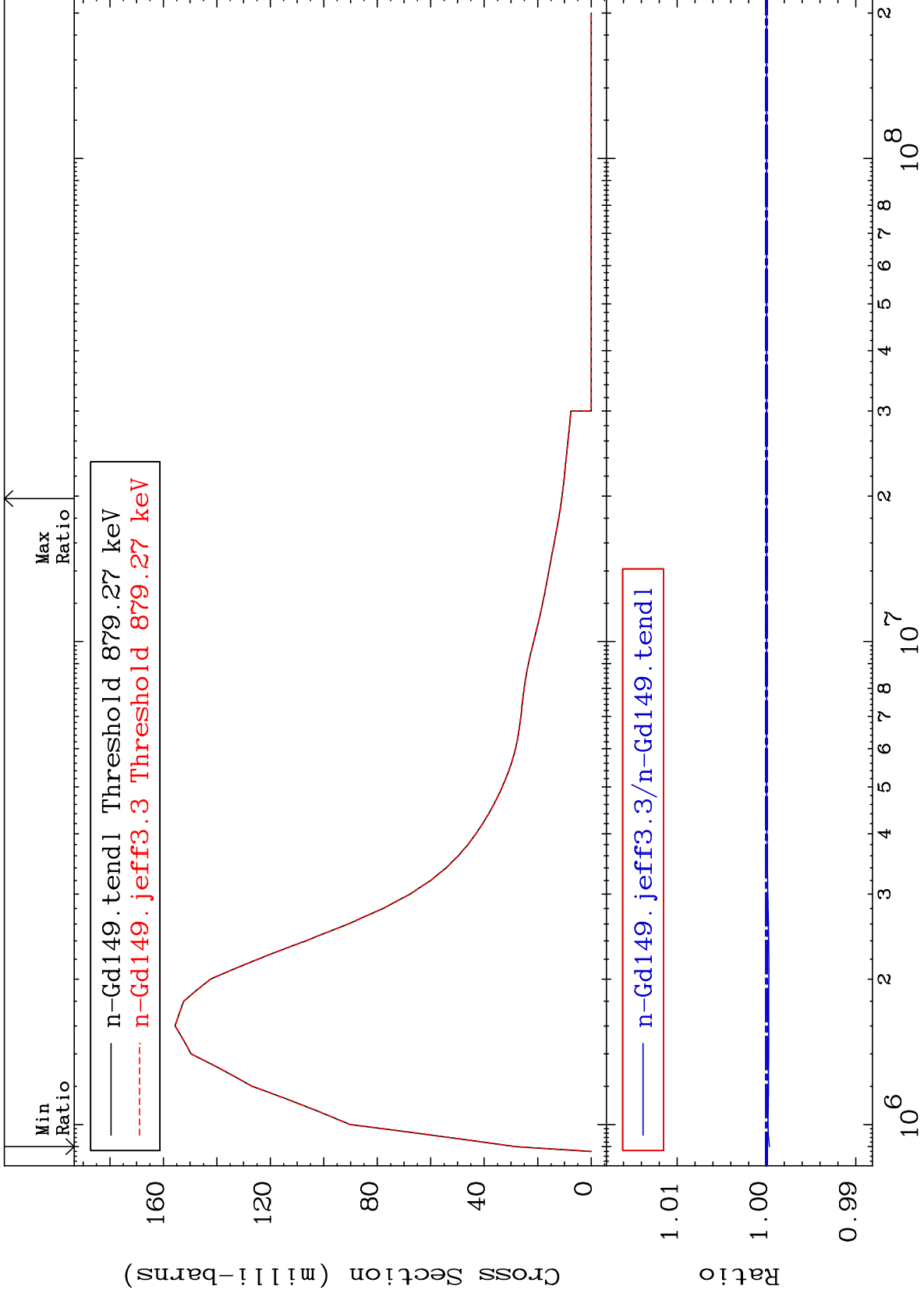
Incident Energy (eV)

64-Gd-149

MAT 6416

MT= 56 (n,n') Level  
Cross Section

64-Gd-149  
-0.033 To 0.000 %



26

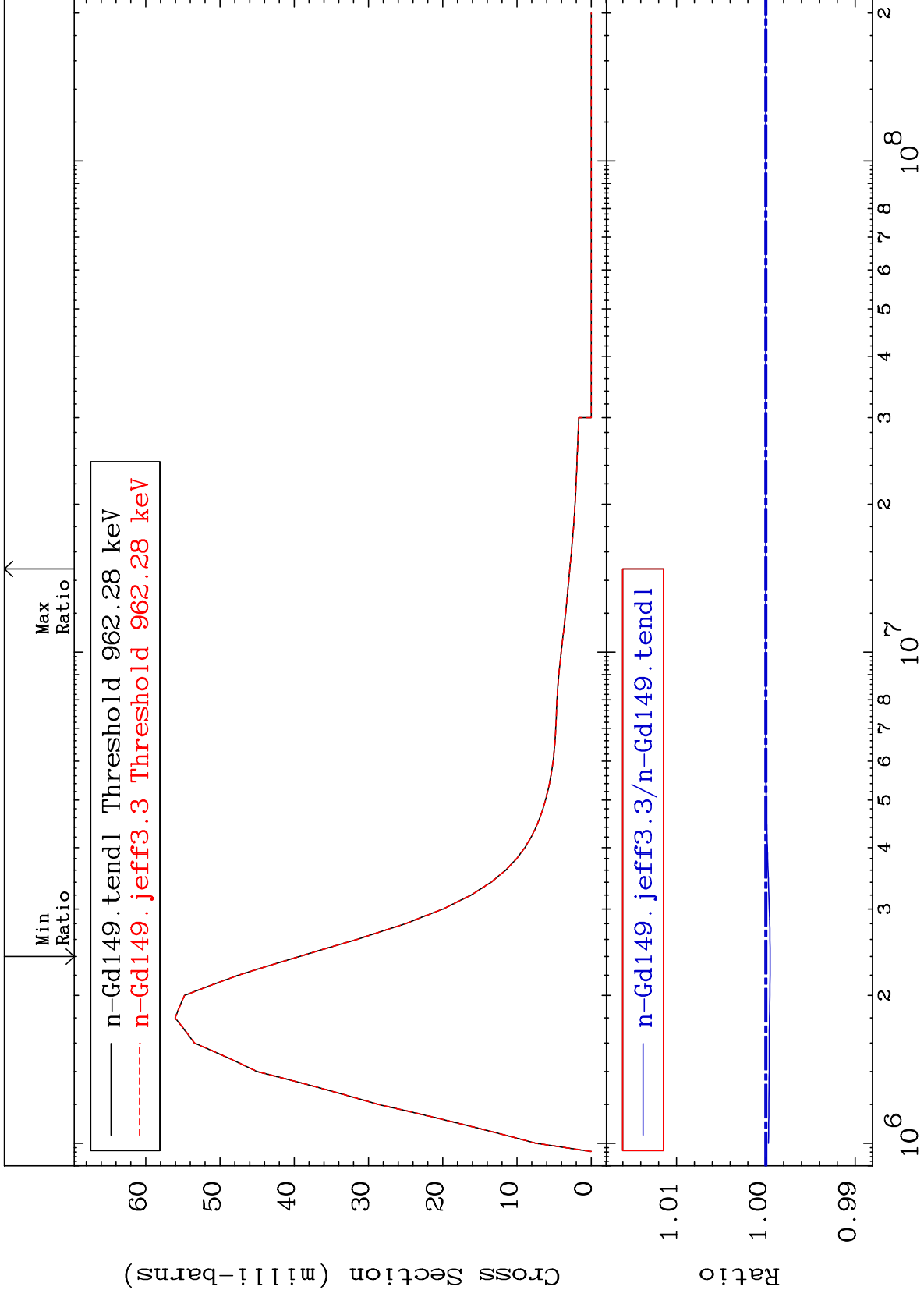
Incident Energy (eV)

64-Gd-149

MAT 6416

MT= 57 (n,n') Level  
Cross Section

64-Gd-149  
-0.048 To 0.000 %



27

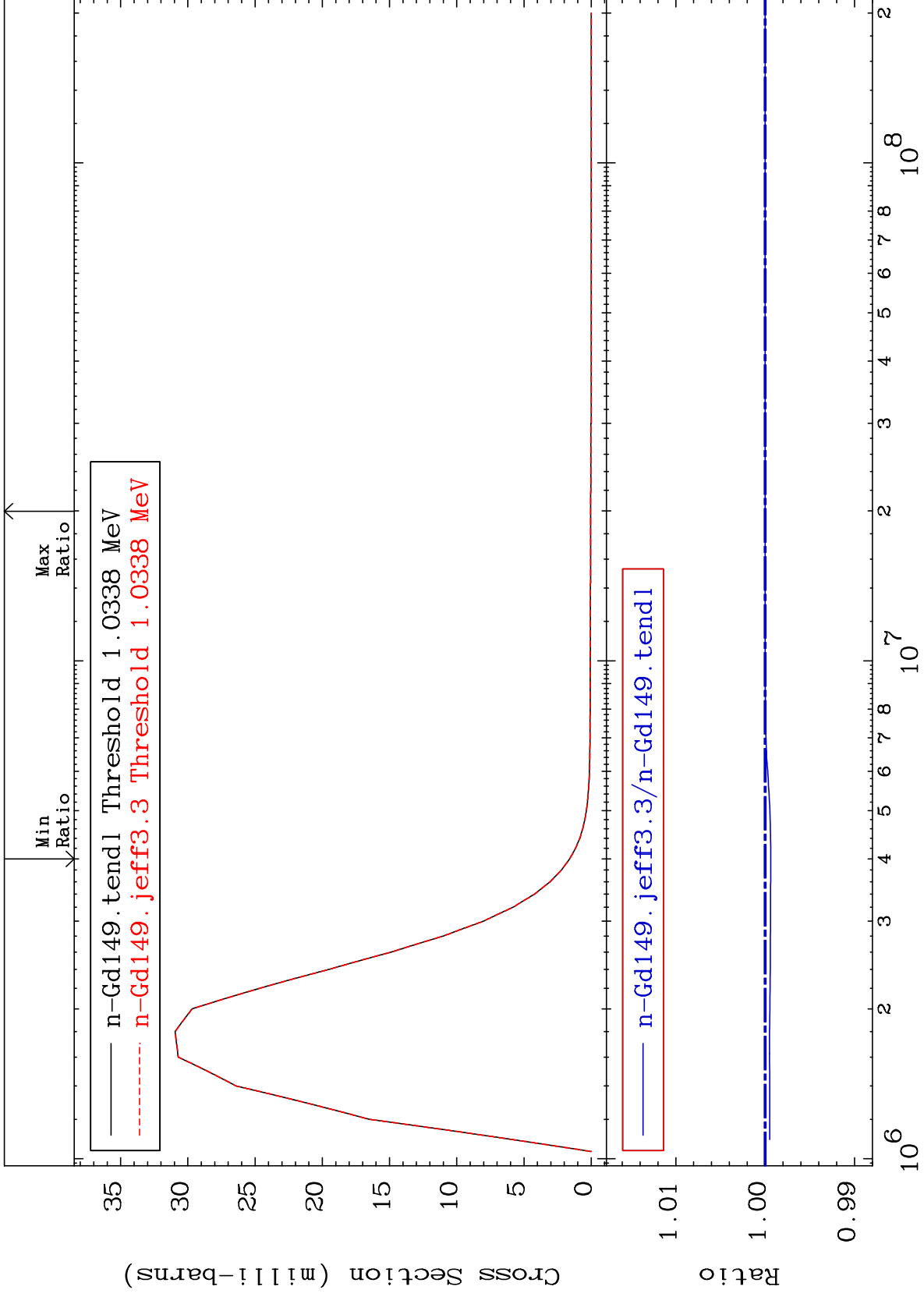
Incident Energy (eV)

64-Gd-149

MAT 6416

MT= 58 (n, n') Level  
Cross Section

64-Gd-149  
-0.063 To 0.000 %



28

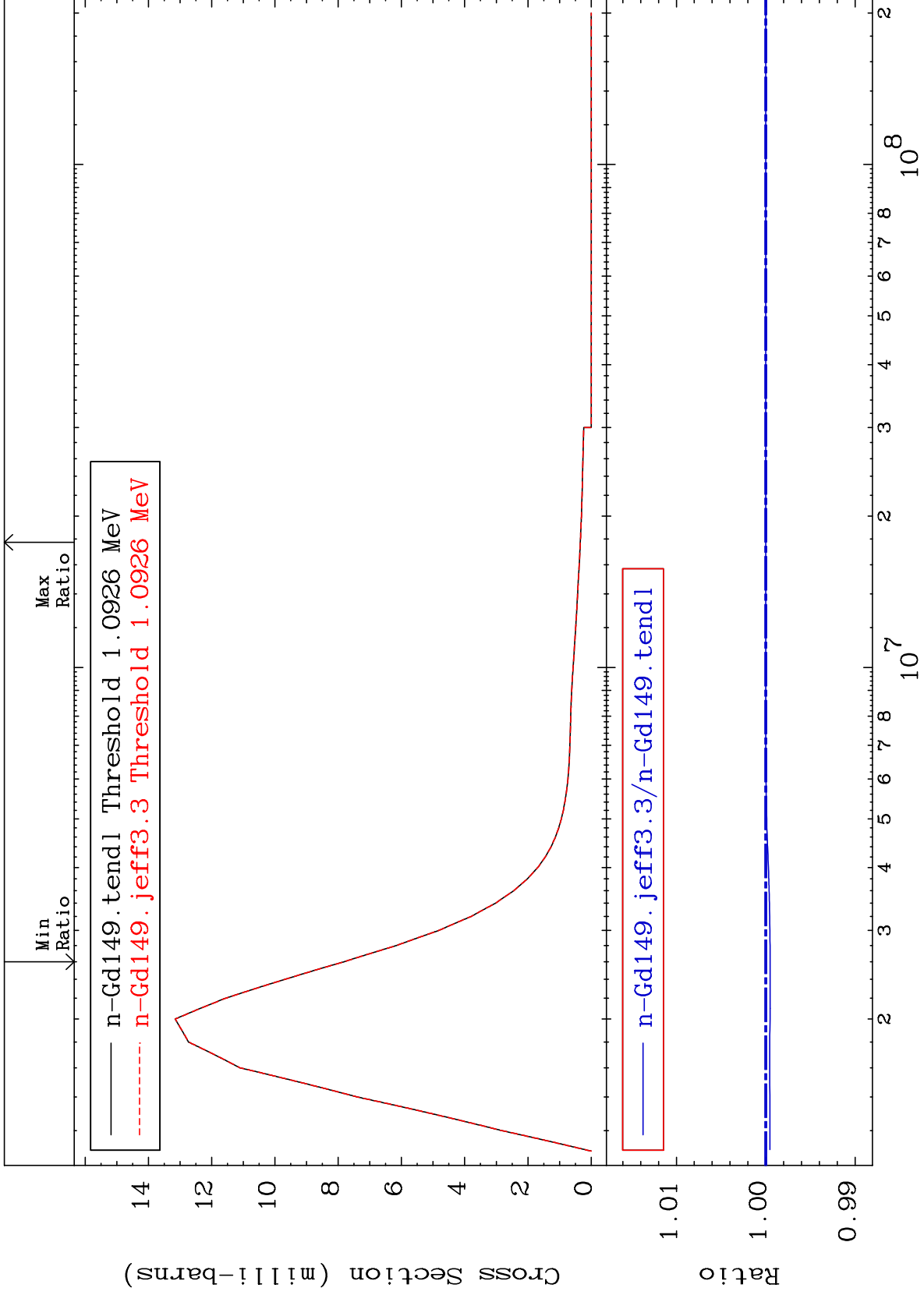
Incident Energy (eV)

64-Gd-149

MAT 6416

MT= 59 (n,n') Level  
Cross Section

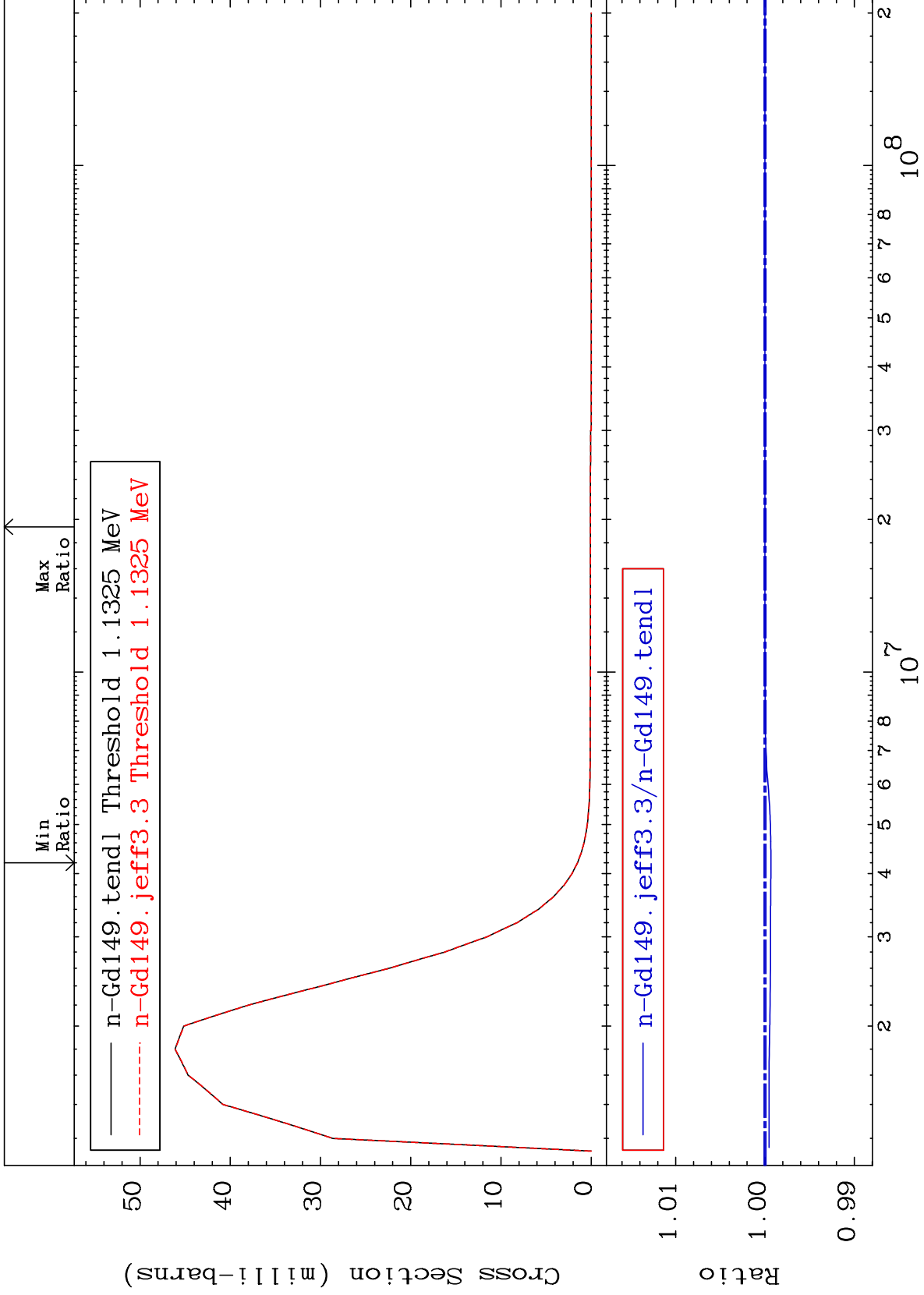
64-Gd-149  
-0.049 To 0.000 %



MAT 6416

MT= 60 (n,n') Level  
Cross Section

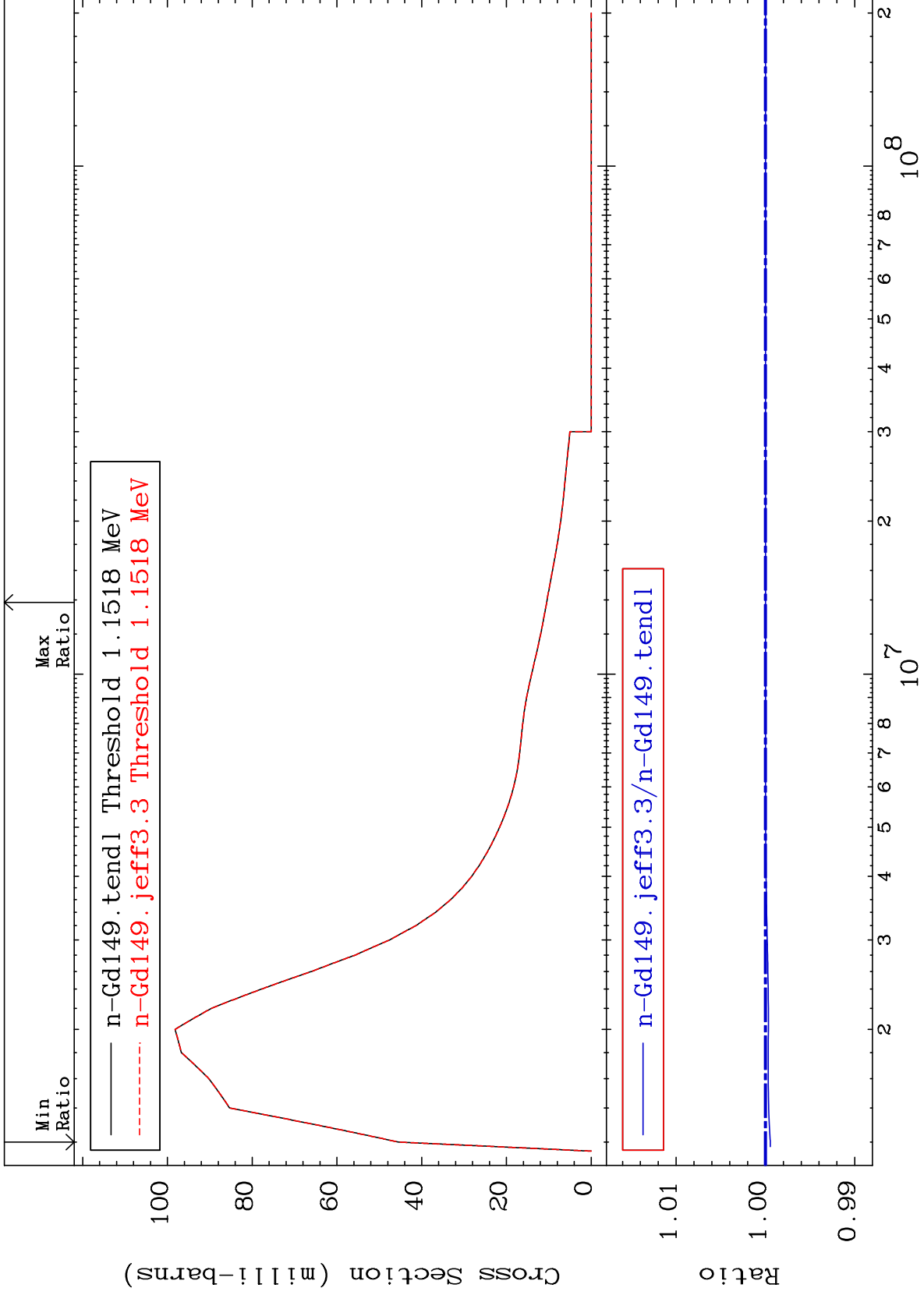
64-Gd-149  
-0.066 To 0.000 %



MAT 6416

MT= 61 (n,n') Level  
Cross Section

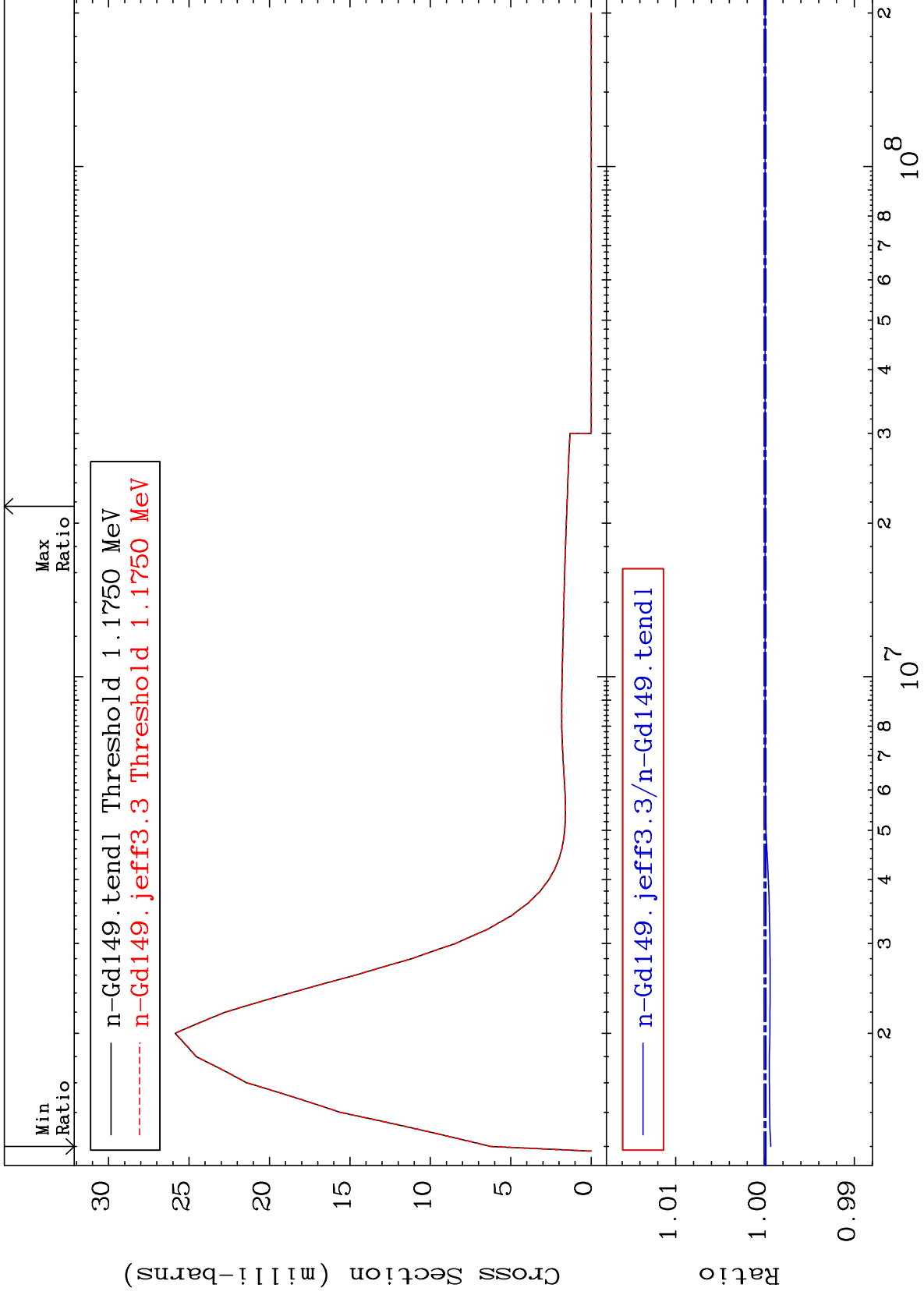
64-Gd-149  
-0.055 To 0.000 %



MAT 6416

MT= 62 (n,n') Level  
Cross Section

64-Gd-149  
-0.064 To 0.000 %

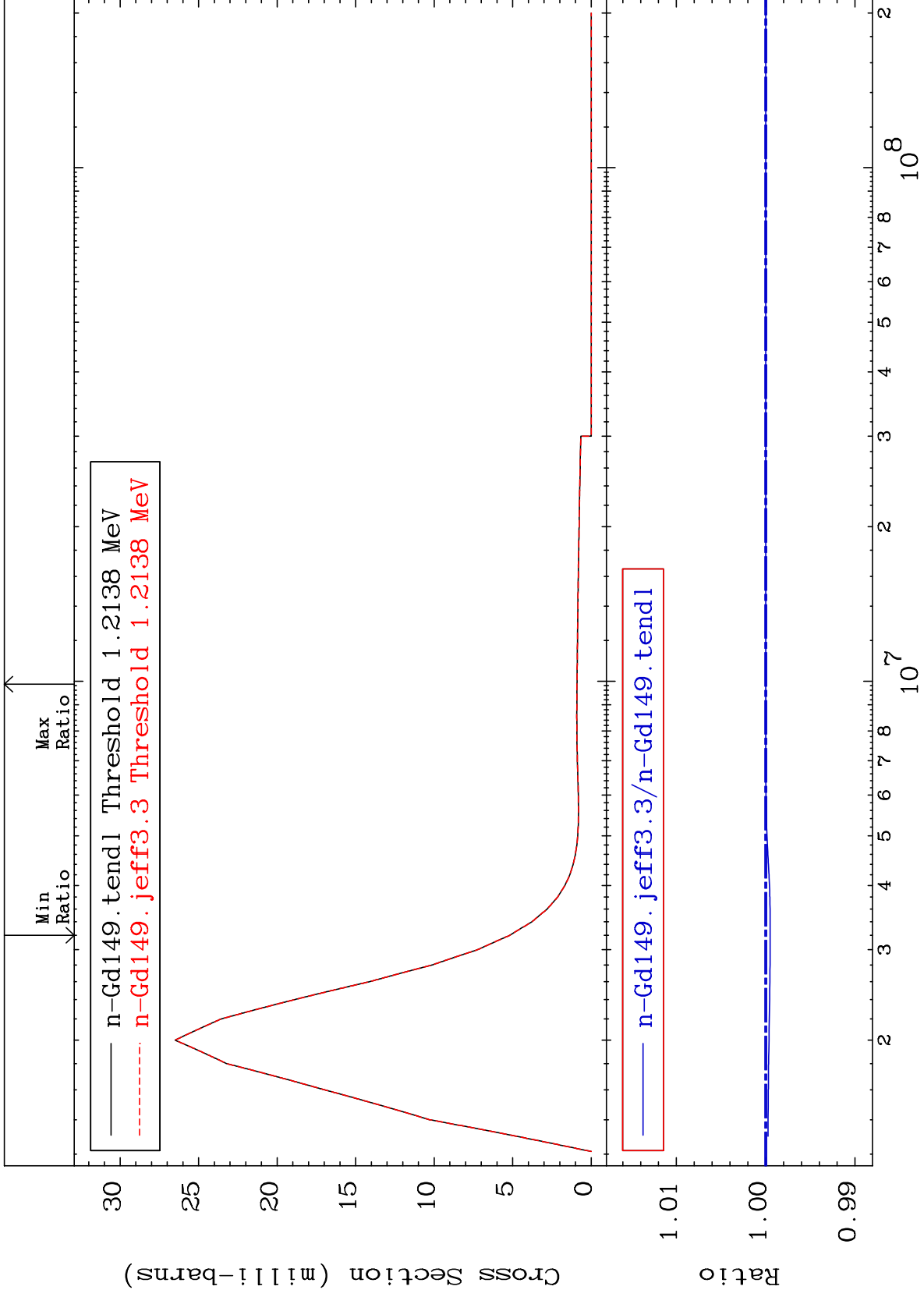




MAT 6416

MT= 63 (n,n') Level  
Cross Section

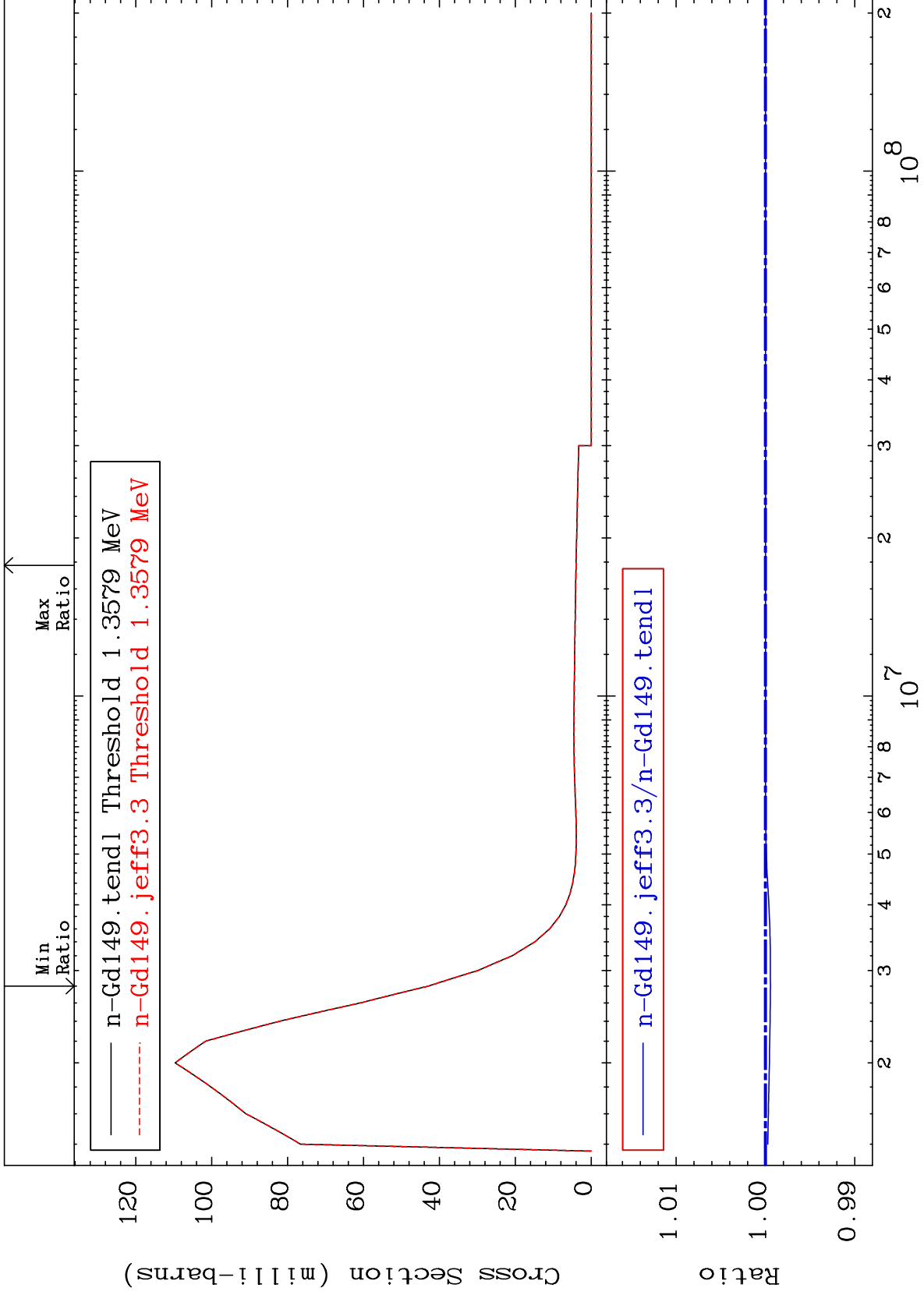
64-Gd-149  
-0.050 To 0.000 %



MAT 6416

MT= 64 (n, n') Level  
Cross Section

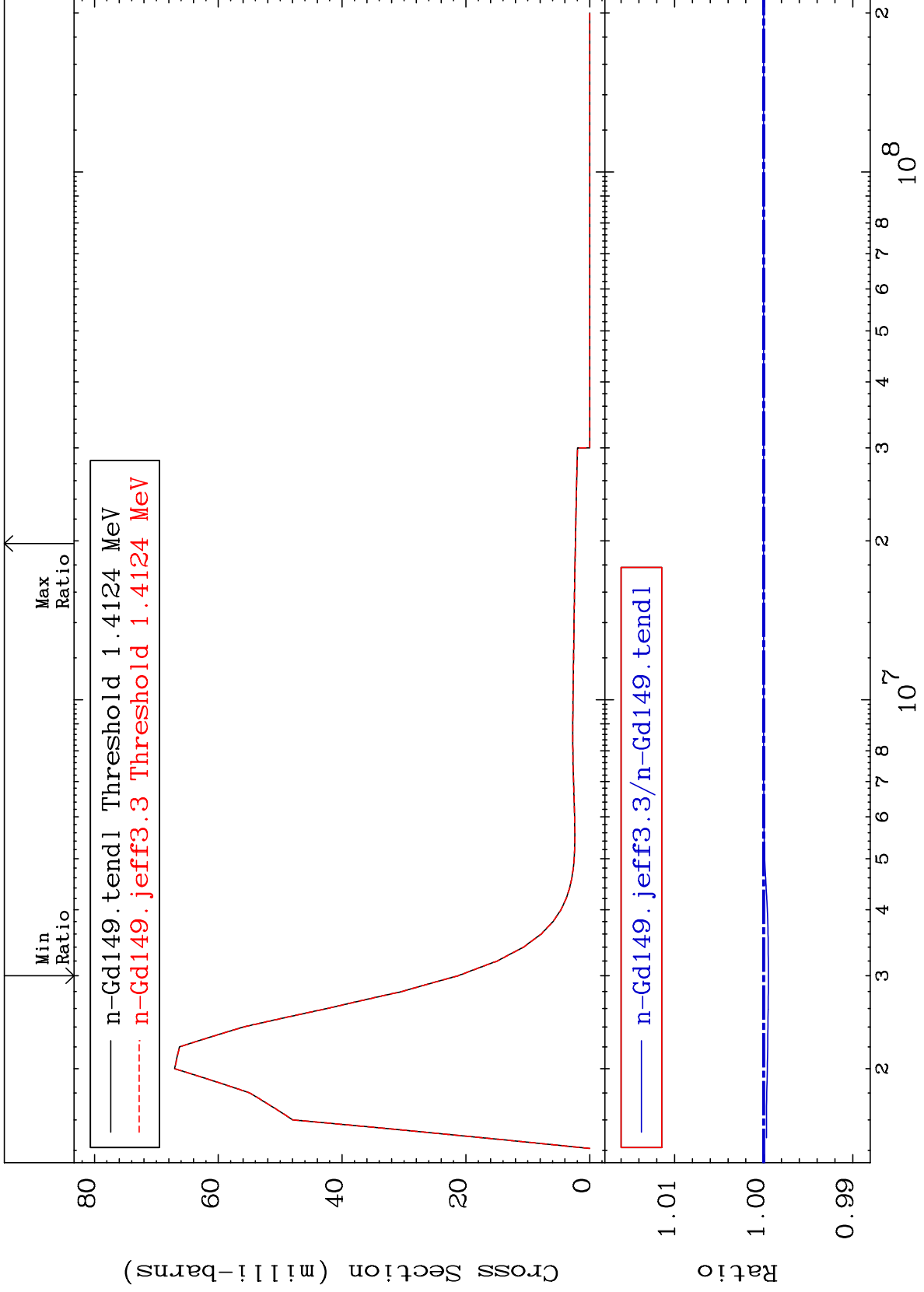
64-Gd-149  
-0.055 To 0.000 %



MAT 6416

MT= 65 (n,n') Level  
Cross Section

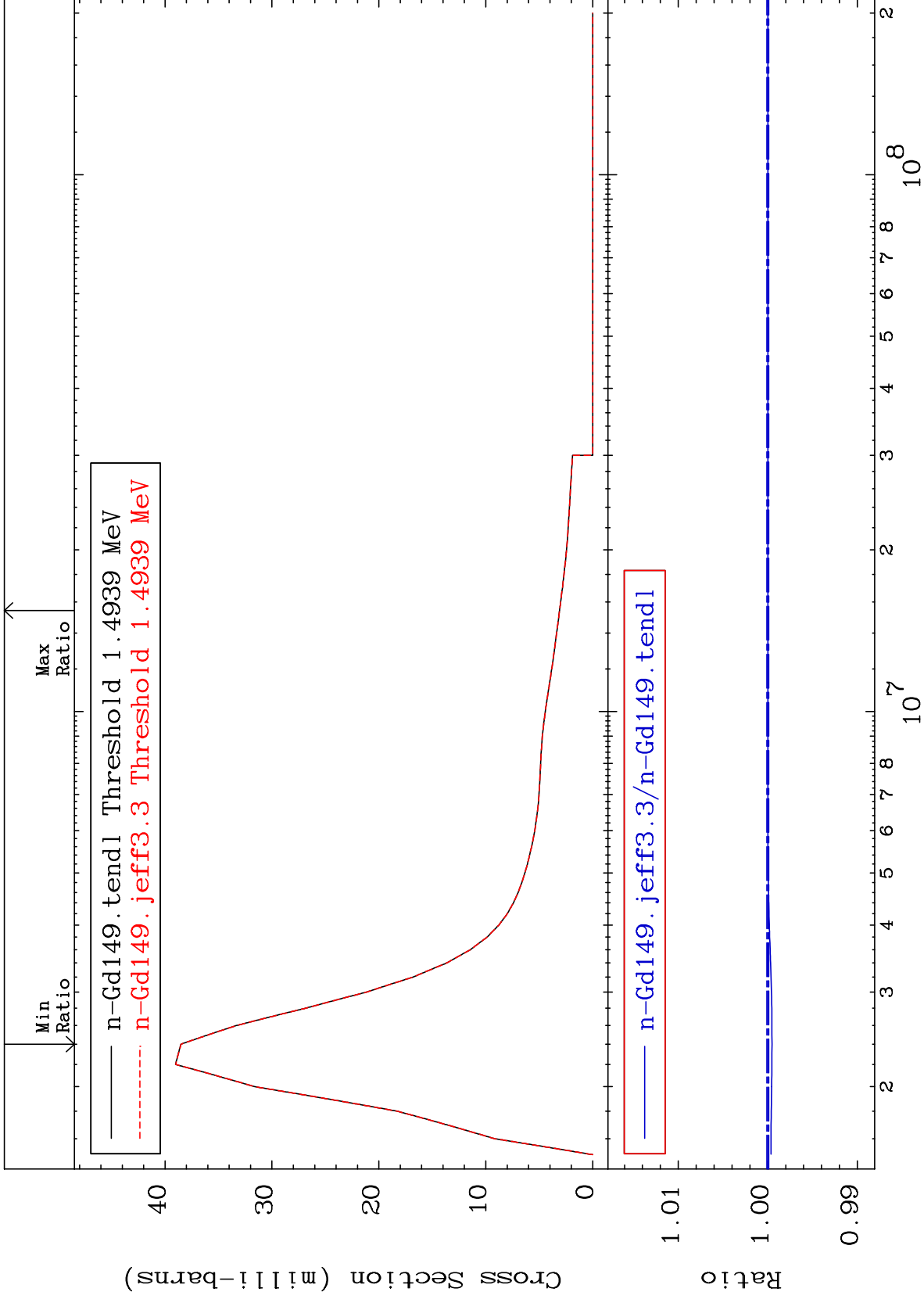
64-Gd-149  
-0.053 To 0.000 %



MAT 6416

MT= 66 (n,n') Level  
Cross Section

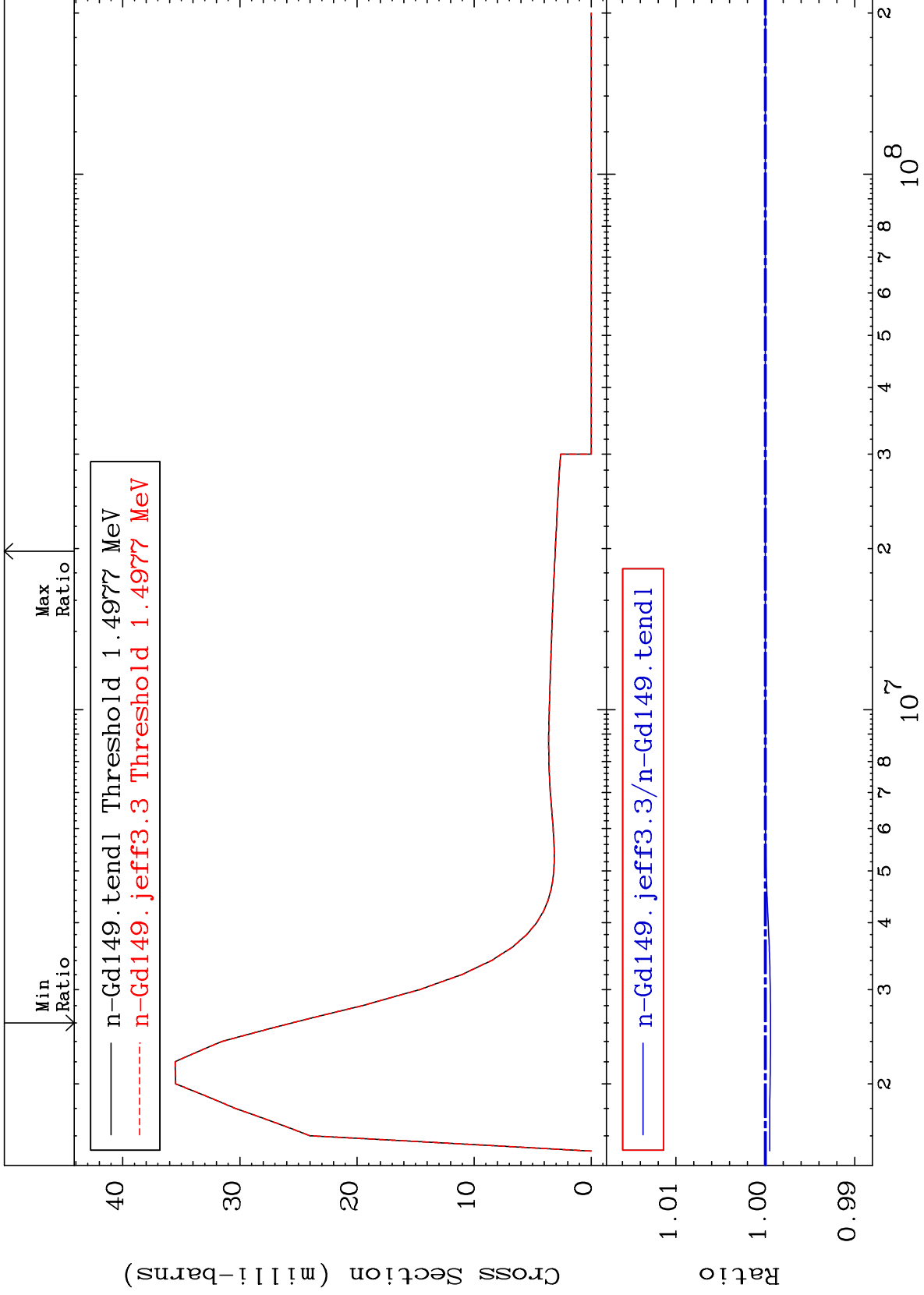
64-Gd-149  
-0.046 To 0.000 %



MAT 6416

MT= 67 (n,n') Level  
Cross Section

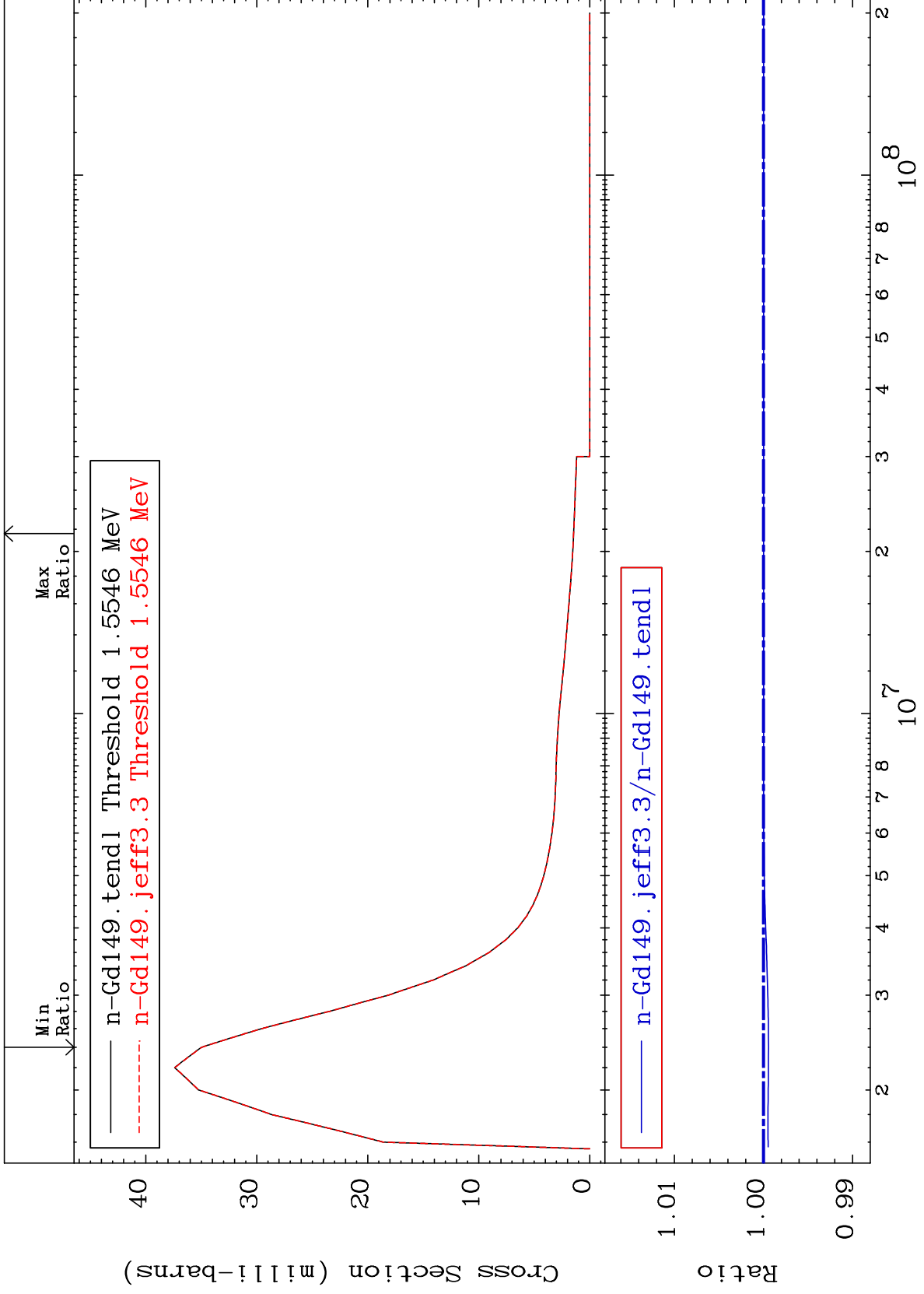
64-Gd-149  
-0.059 To 0.000 %



MAT 6416

MT= 68 (n,n') Level  
Cross Section

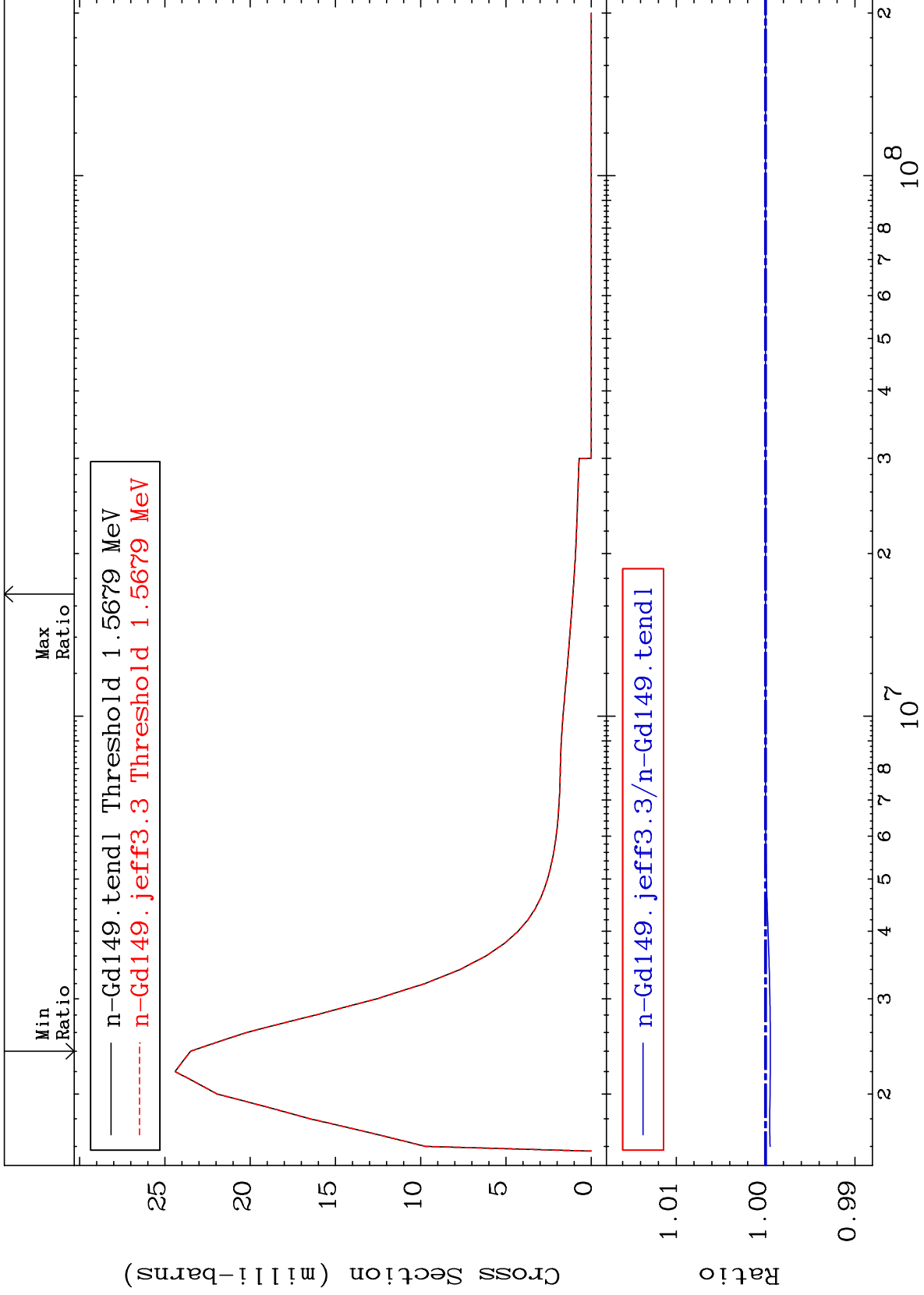
64-Gd-149  
-0.056 To 0.000 %



MAT 6416

MT= 69 (n,n') Level  
Cross Section

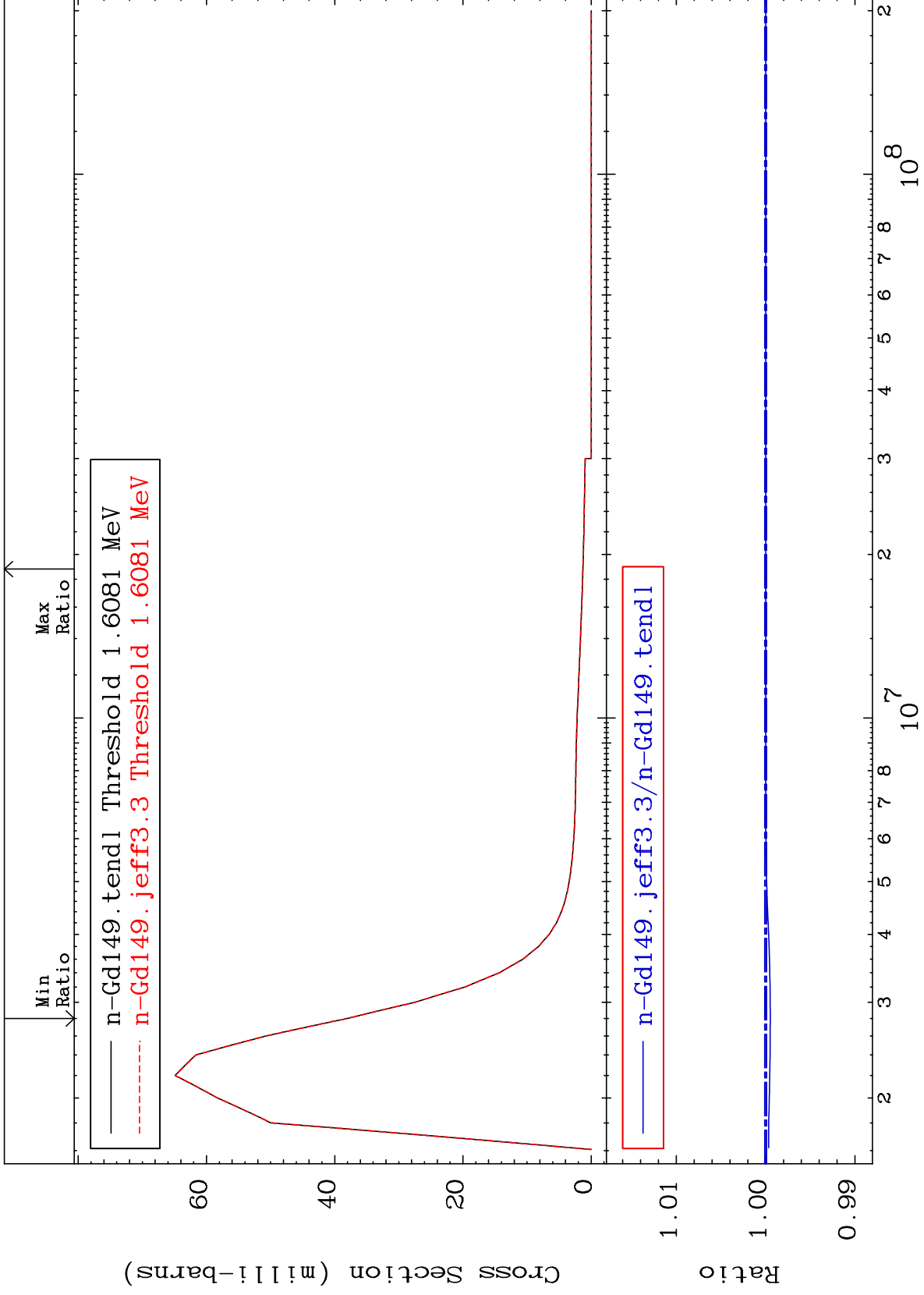
64-Gd-149  
-0.054 To 0.000 %



MAT 6416

MT= 70 (n,n') Level  
Cross Section

64-Gd-149  
-0.051 To 0.000 %



40

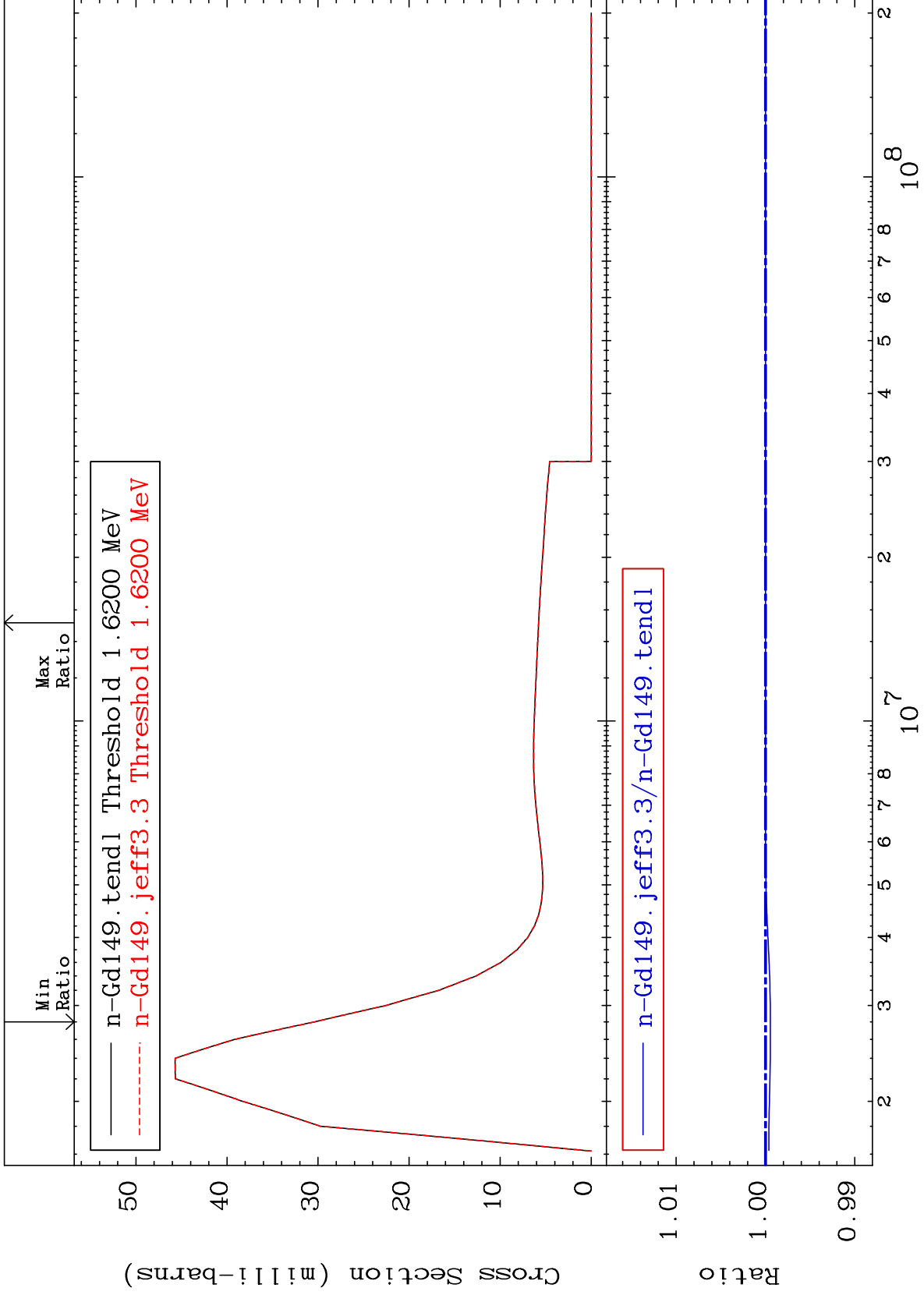
64-Gd-149



MAT 6416

MT= 71 (n,n') Level  
Cross Section

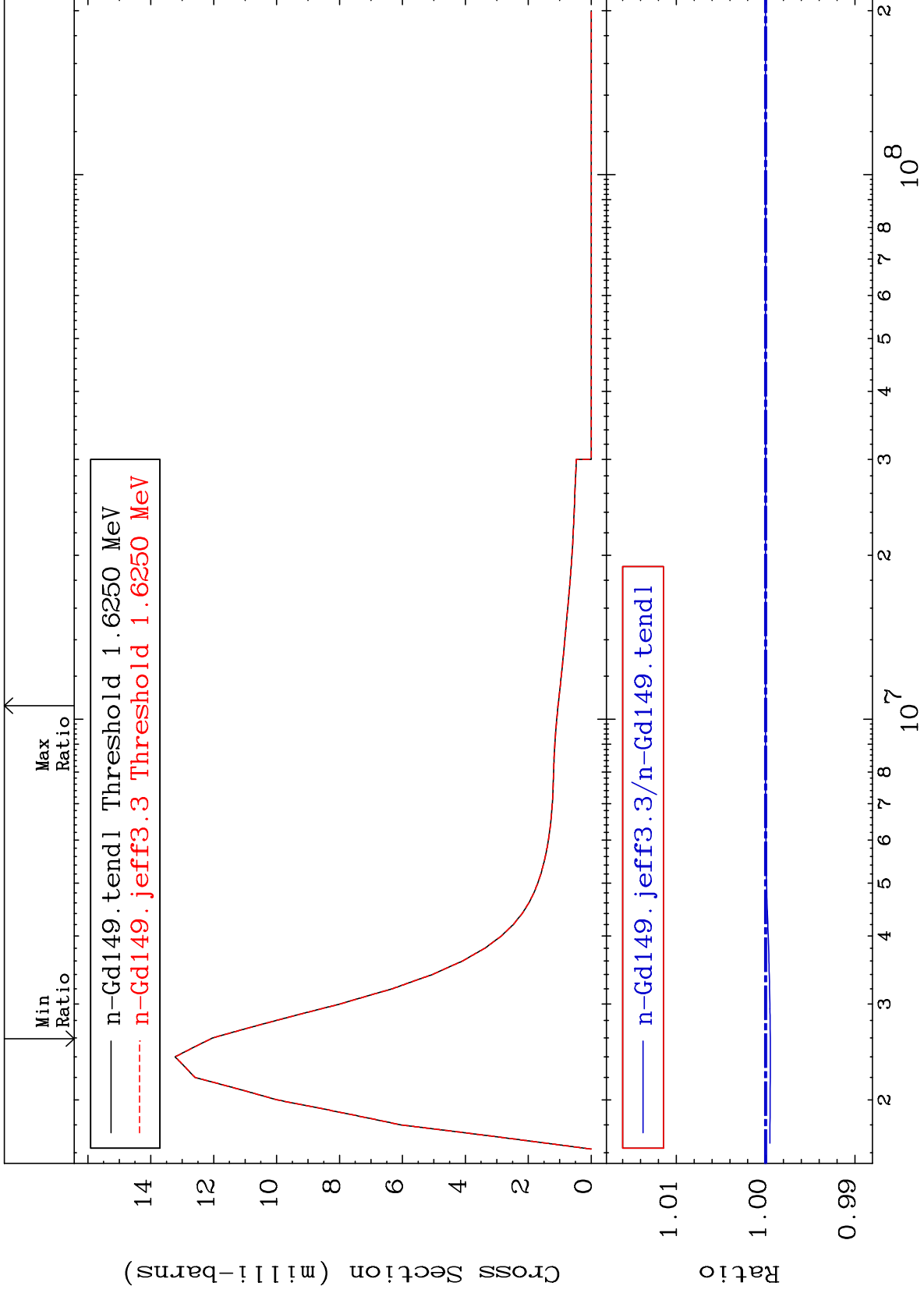
64-Gd-149  
-0.055 To 0.000 %



MAT 6416

MT= 72 (n,n') Level  
Cross Section

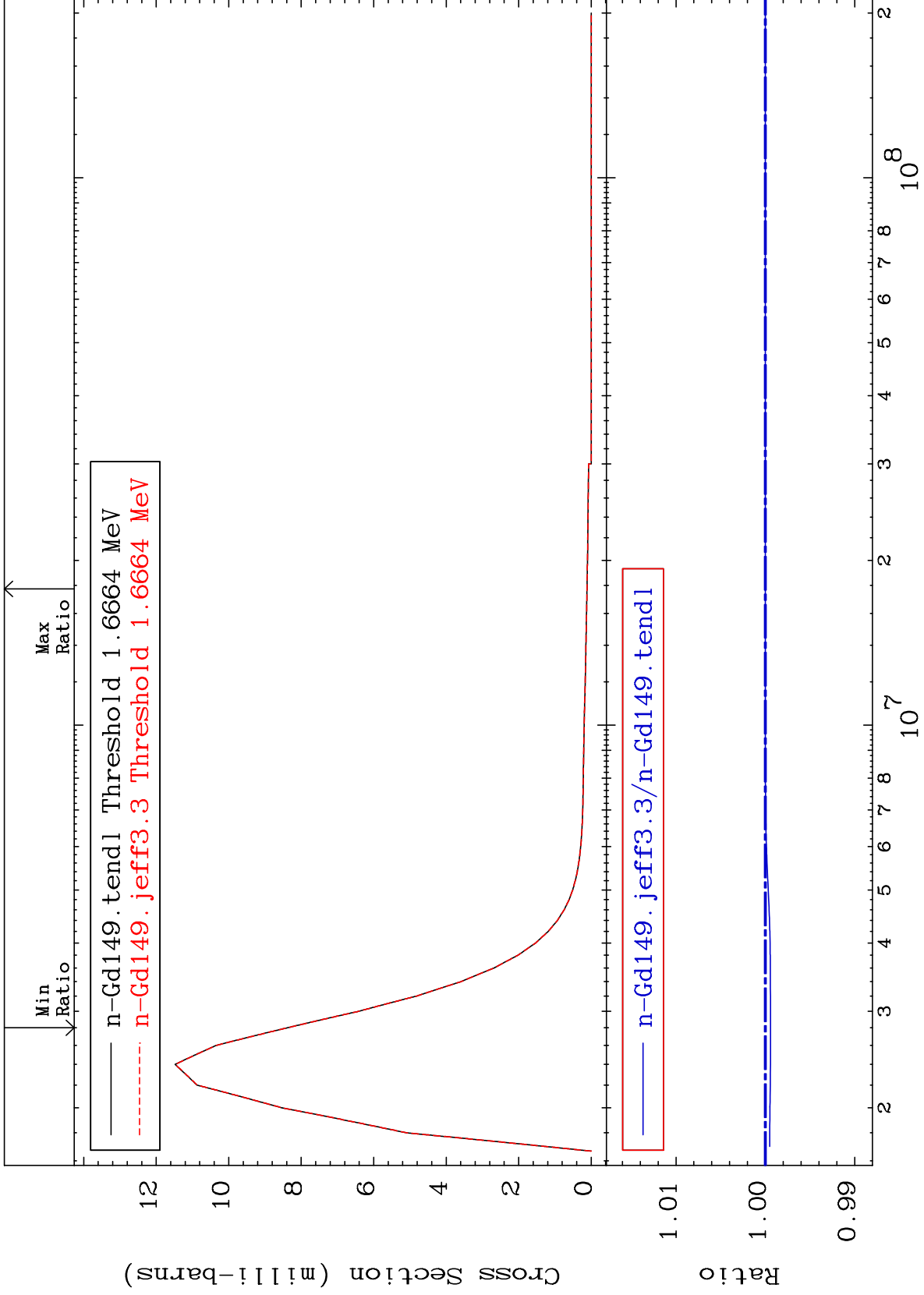
64-Gd-149  
-0.052 To 0.000 %



MAT 6416

MT= 73 (n,n') Level  
Cross Section

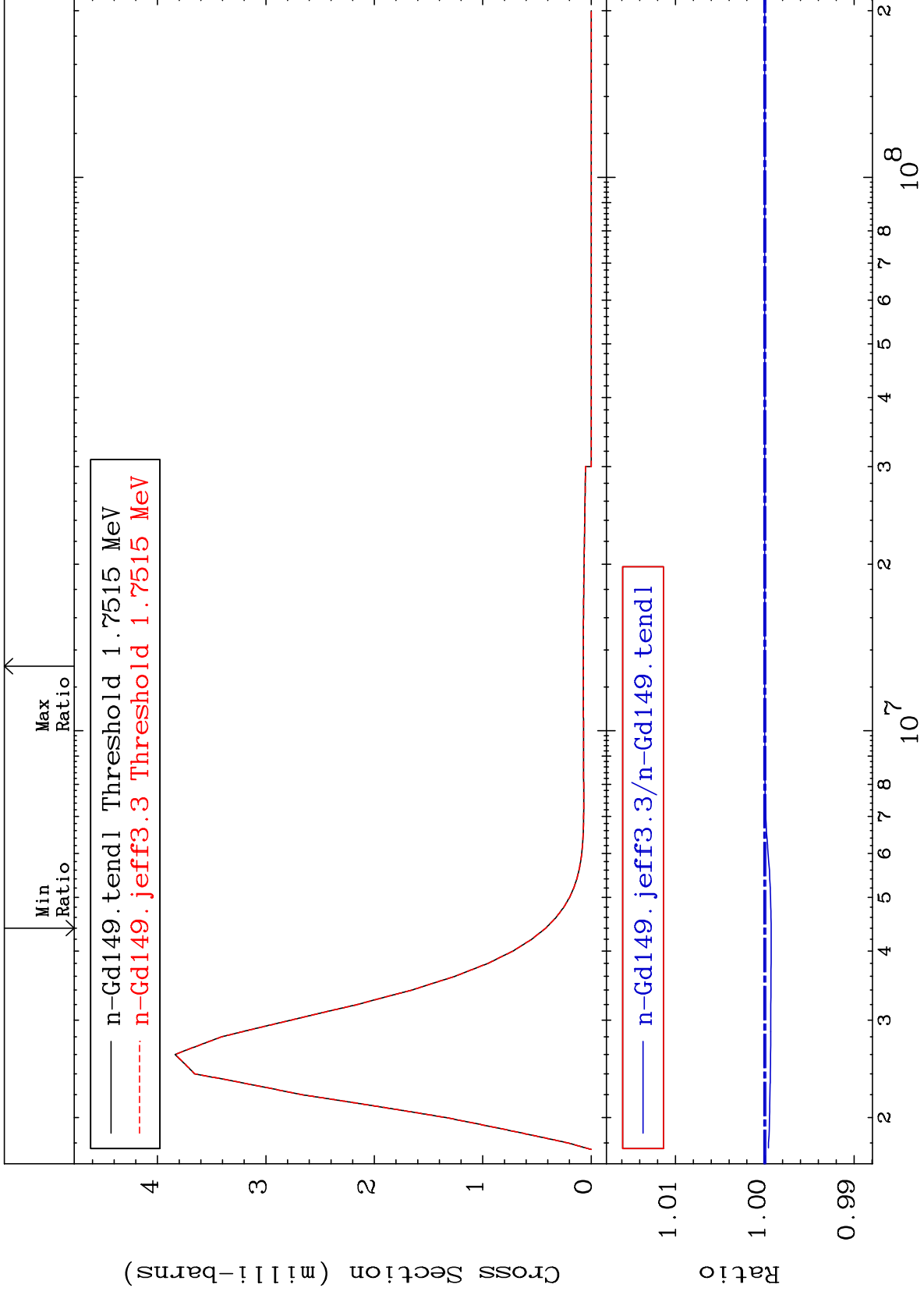
64-Gd-149  
-0.058 To 0.000 %



MAT 6416

MT= 74 (n,n') Level  
Cross Section

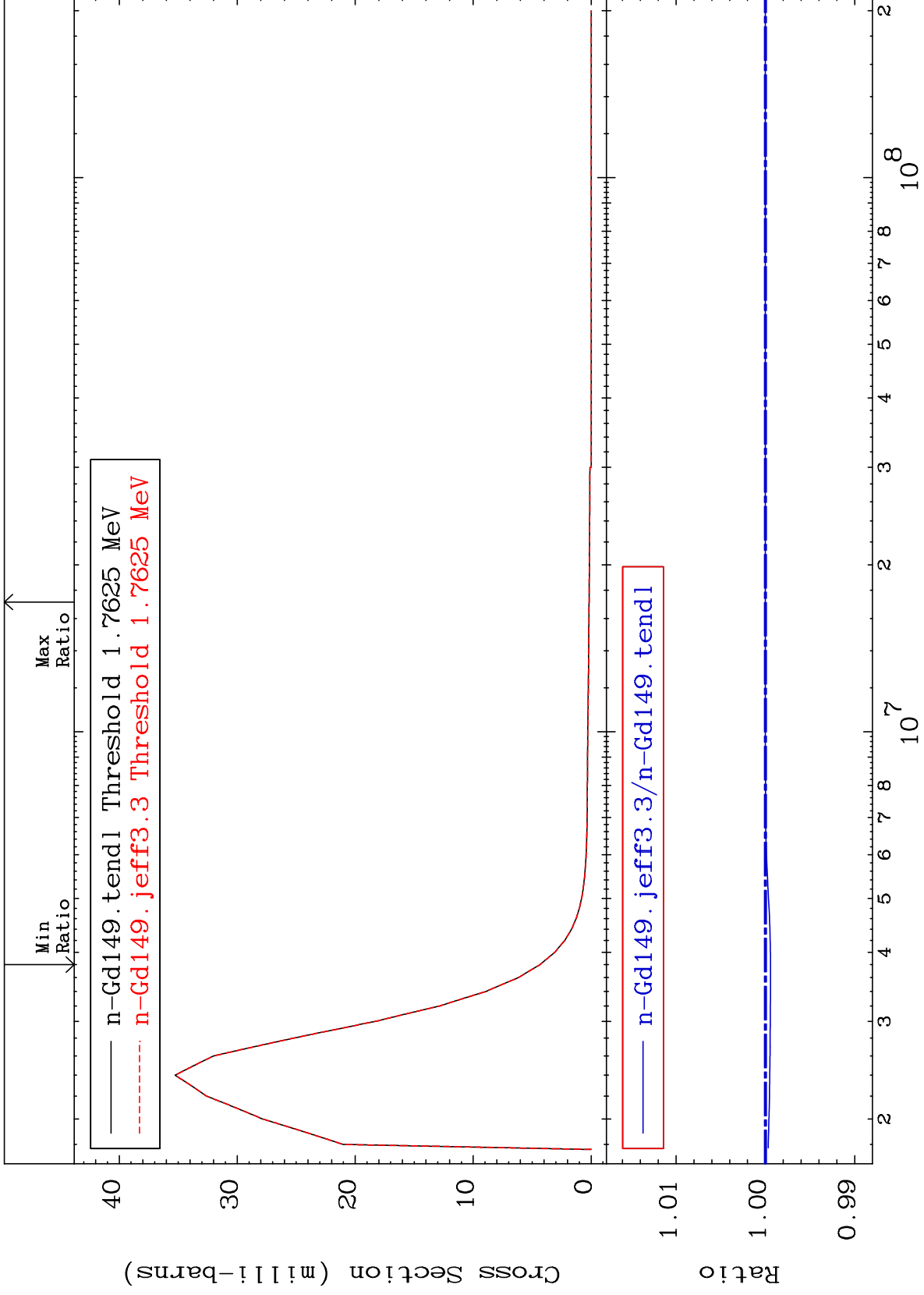
64-Gd-149  
-0.071 To 0.000 %



MAT 6416

MT= 75 (n,n') Level  
Cross Section

64-Gd-149  
-0.057 To 0.000 %



45

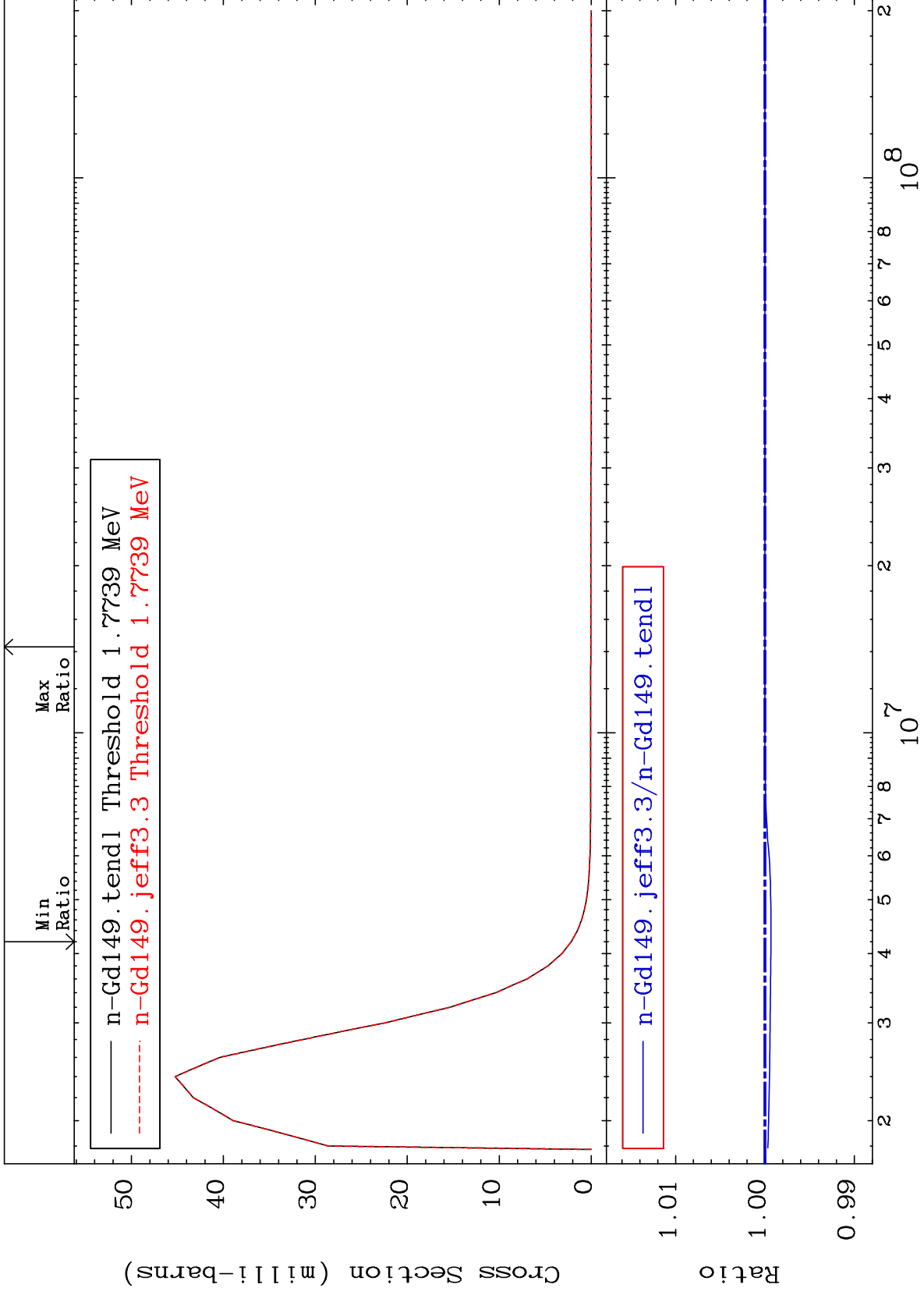
Incident Energy (eV)

64-Gd-149

MAT 6416

MT= 76 (n,n') Level  
Cross Section

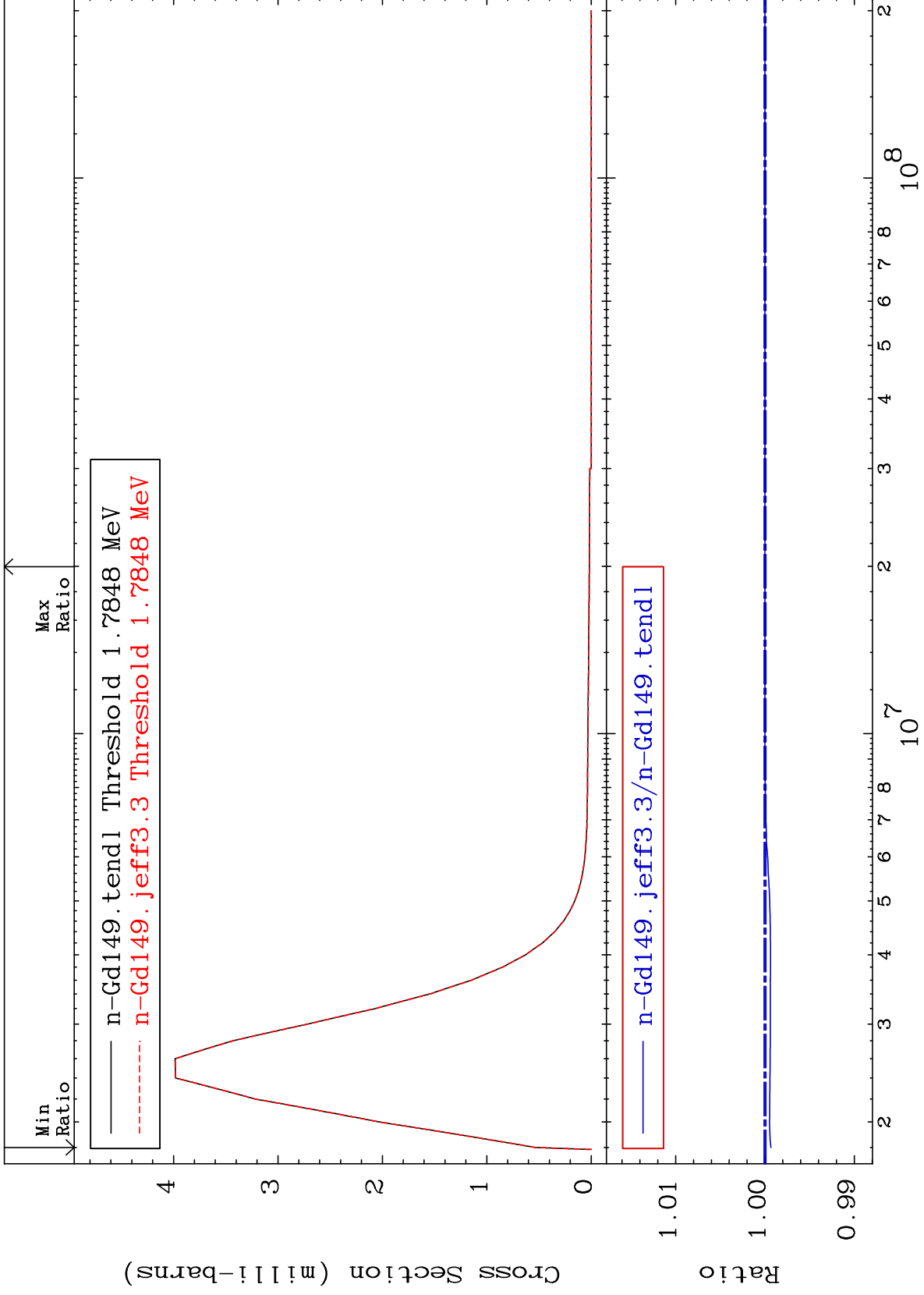
64-Gd-149  
-0.068 To 0.000 %



MAT 6416

MT= 77 (n,n') Level  
Cross Section

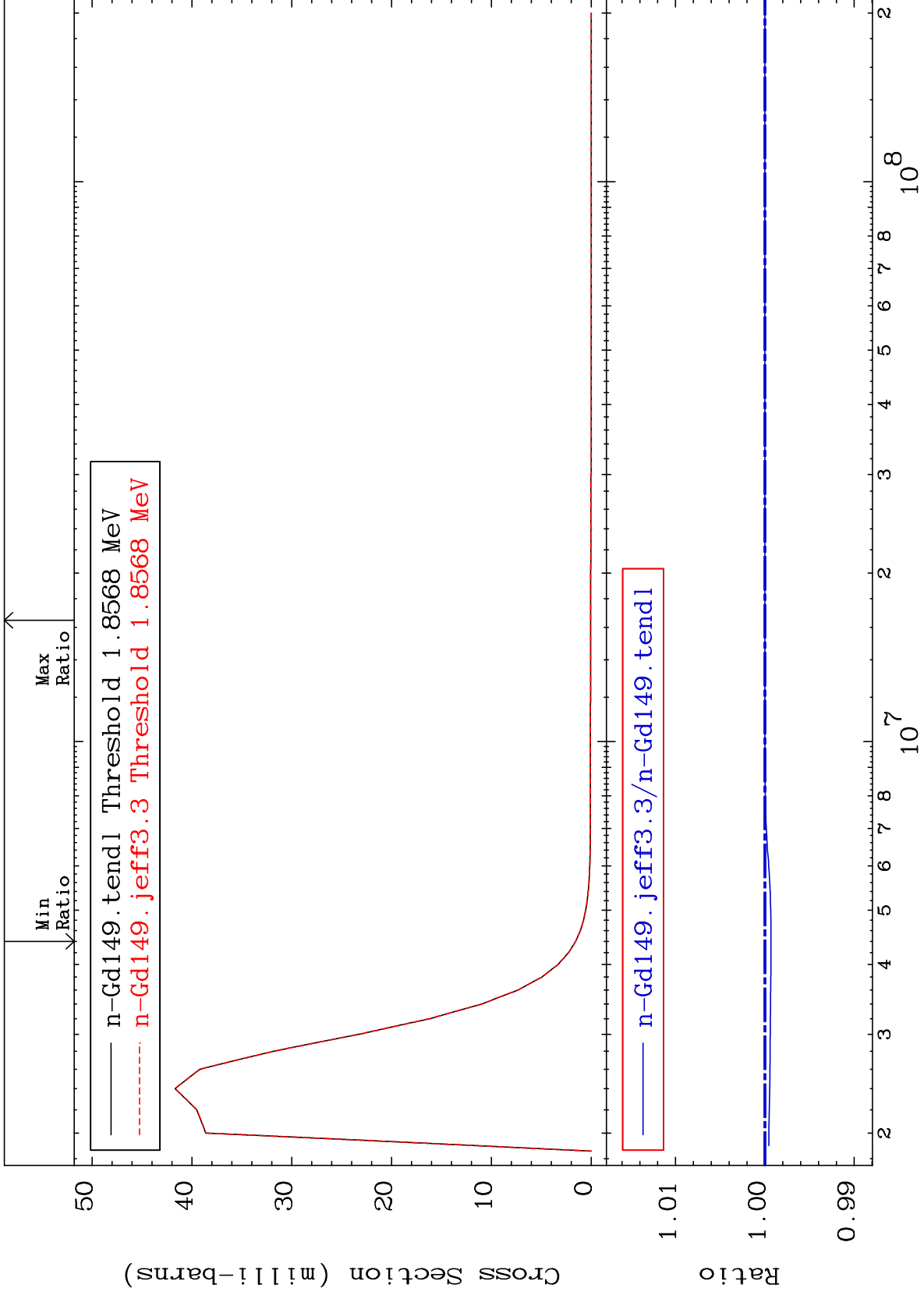
64-Gd-149  
-0.067 To 0.000 %



MAT 6416

MT= 78 (n,n') Level  
Cross Section

64-Gd-149  
-0.068 To 0.000 %

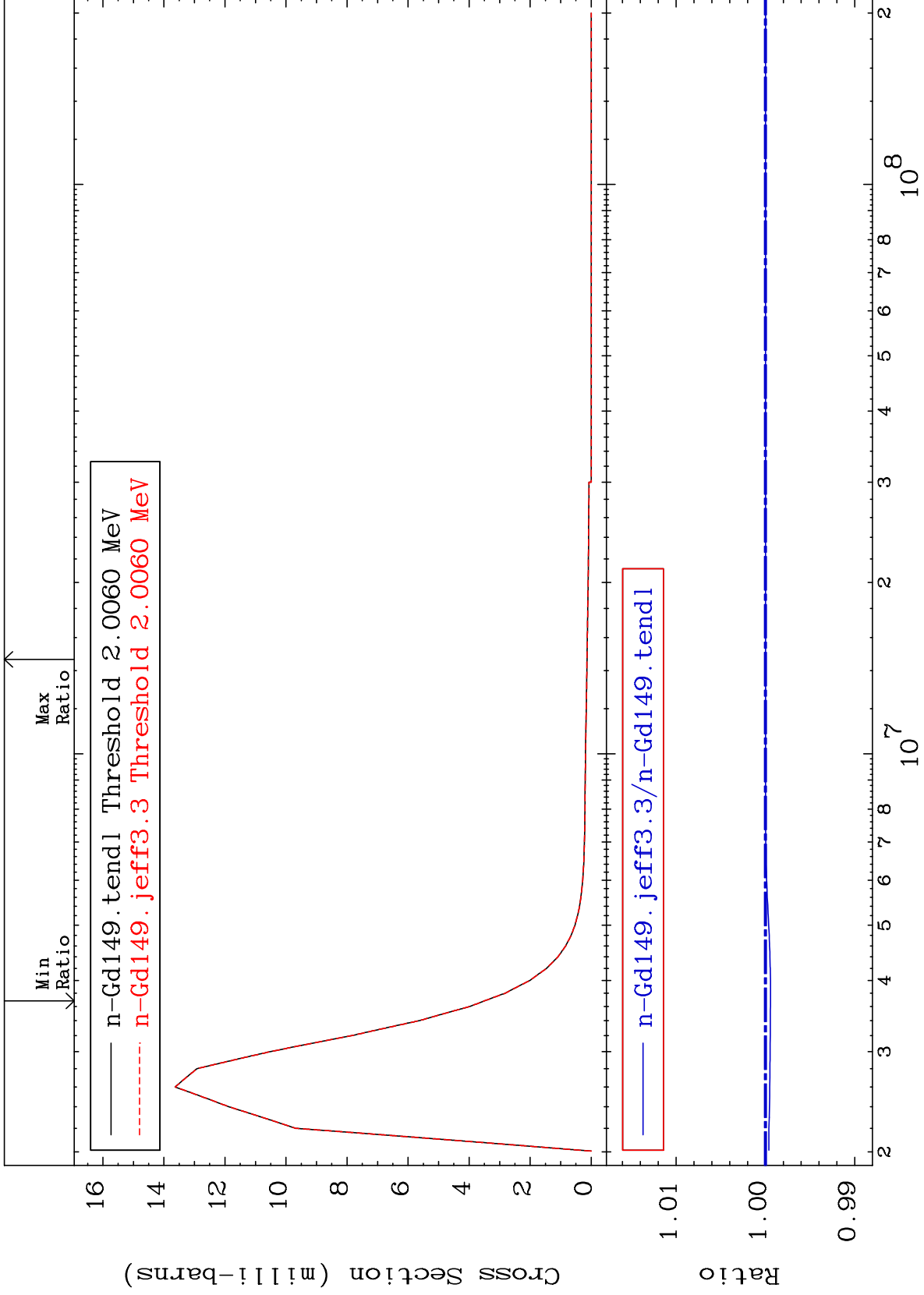




MAT 6416

MT= 79 (n,n') Level  
Cross Section

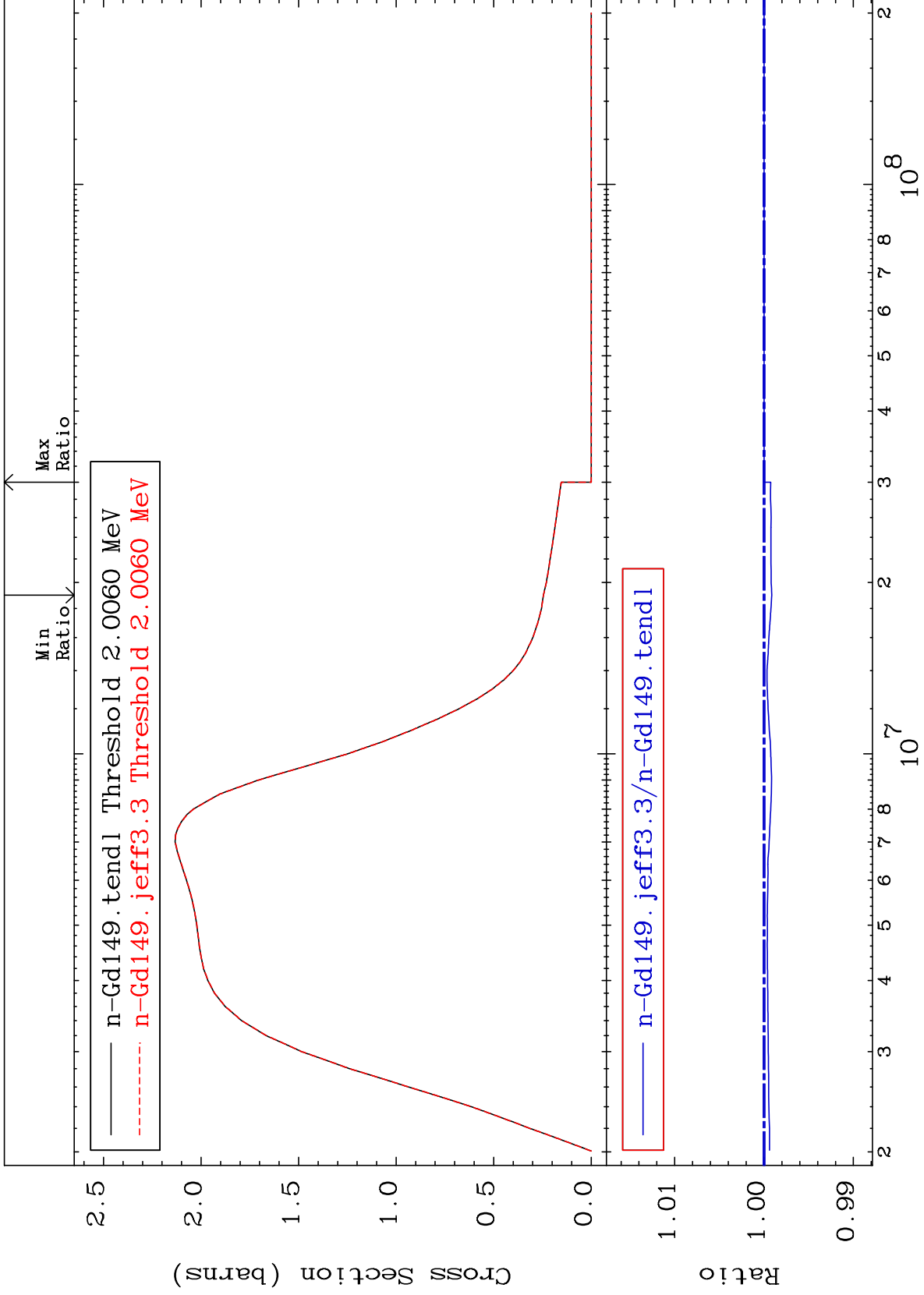
64-Gd-149  
-0.056 To 0.000 %



MAT 6416

(n, n') Continuum  
Cross Section

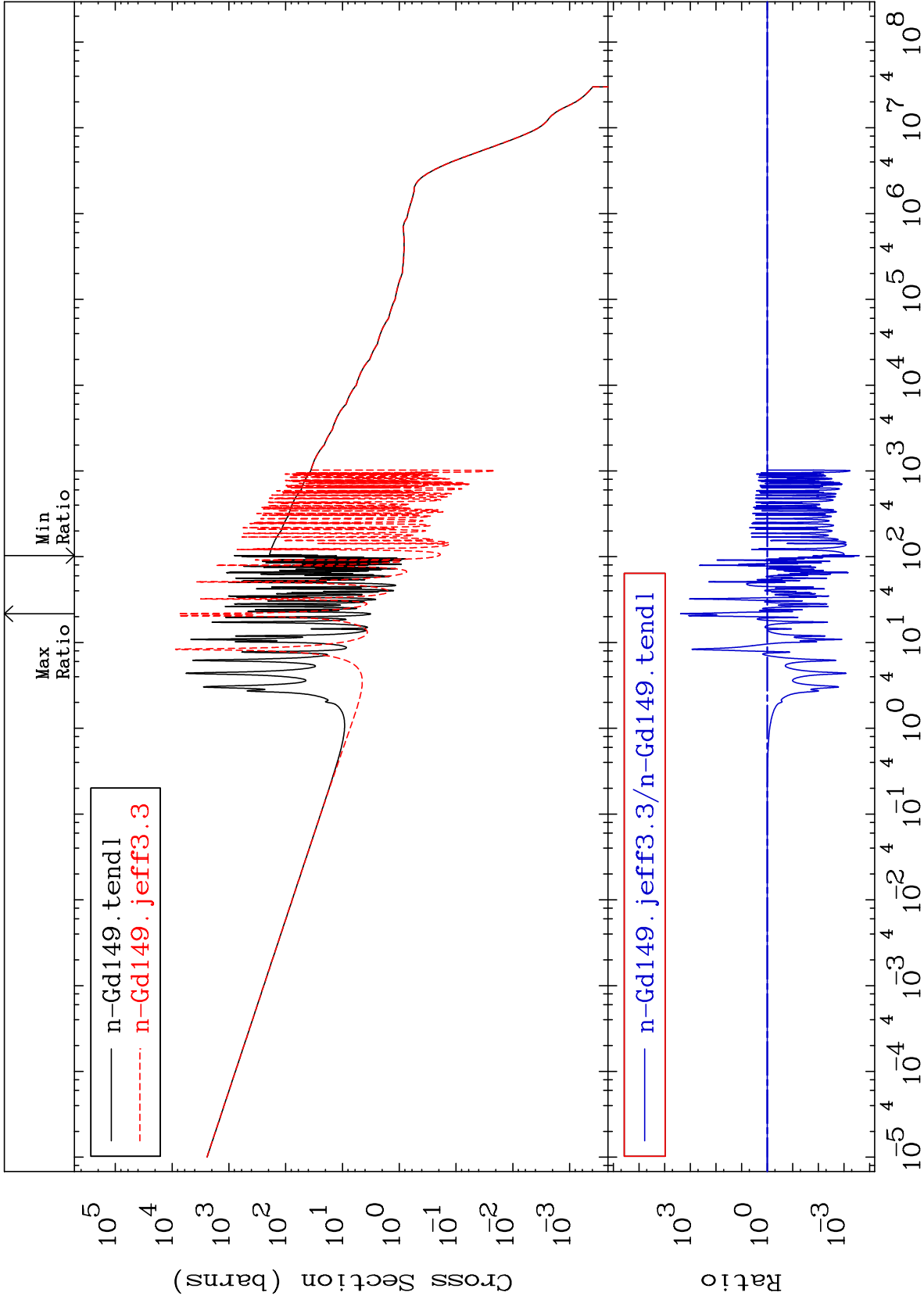
64-Gd-149  
-0.087 To 0.000 %



MAT 6416

64-Gd-149  
-99.97 To 9999. %

(n,  $\gamma$ )  
Cross Section



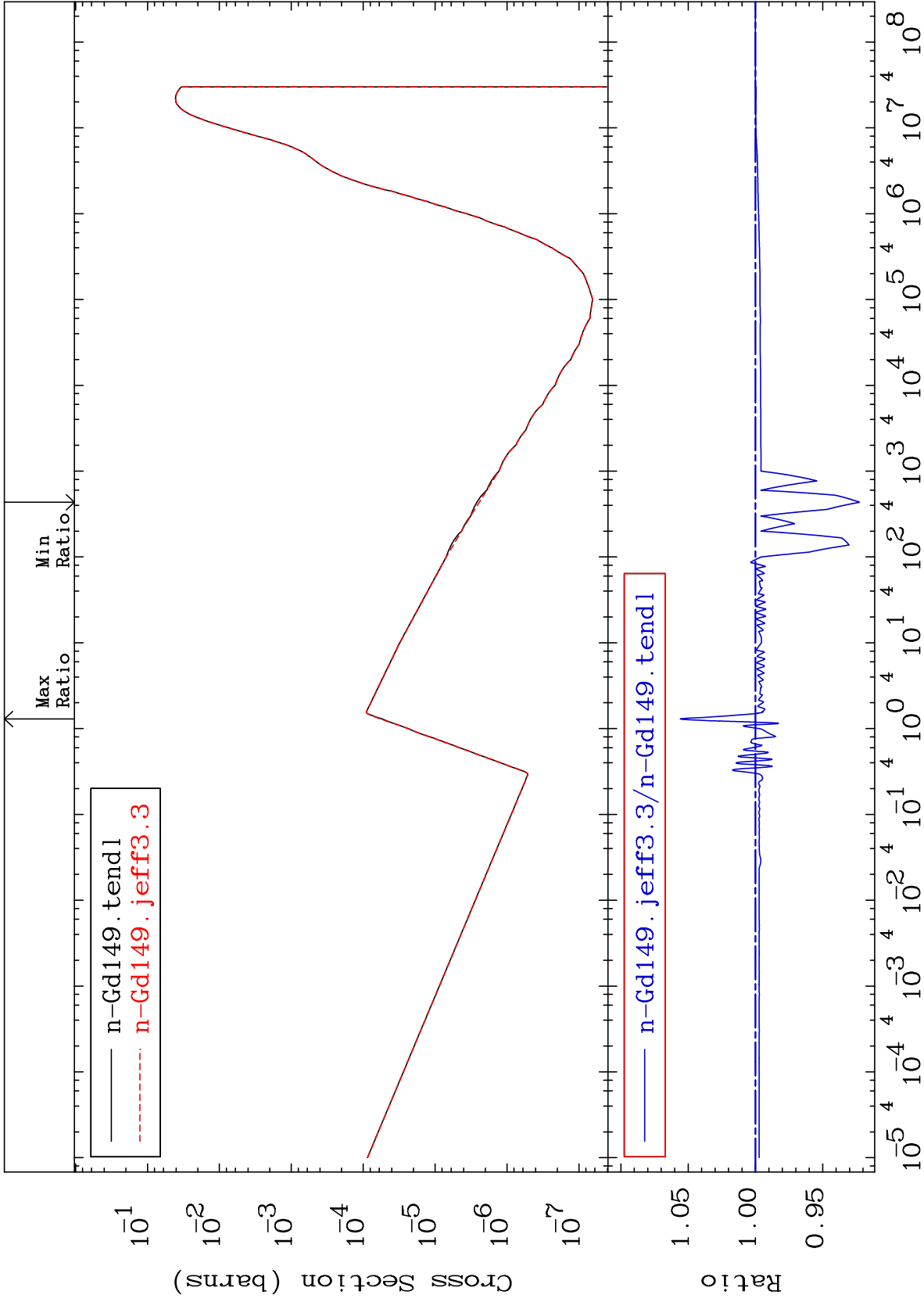
MAT 6416

(n, p)

64-Gd-149

-7.730 To 5.578 %

Cross Section



MAT 6416

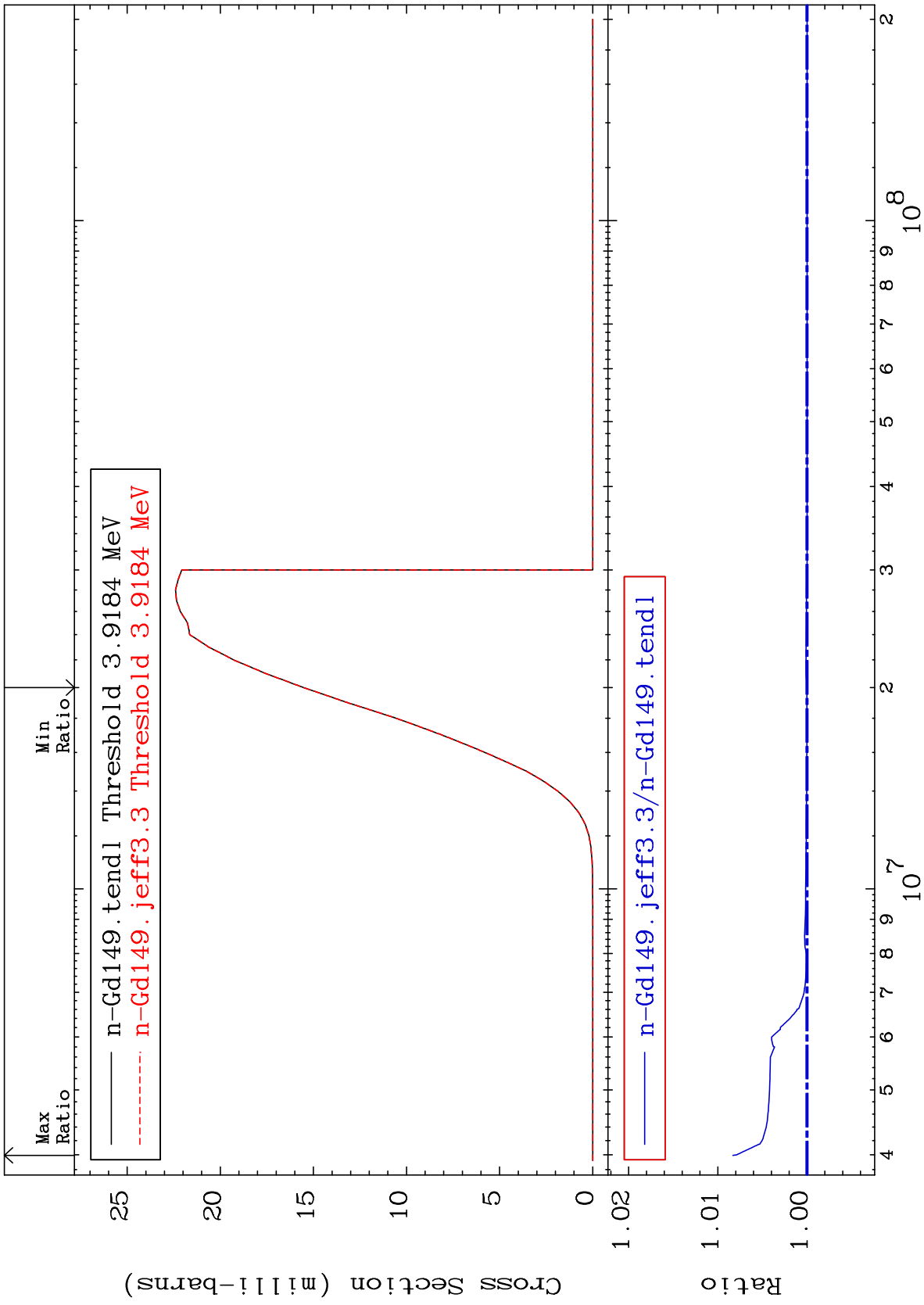
(n, d)

64-Gd-149

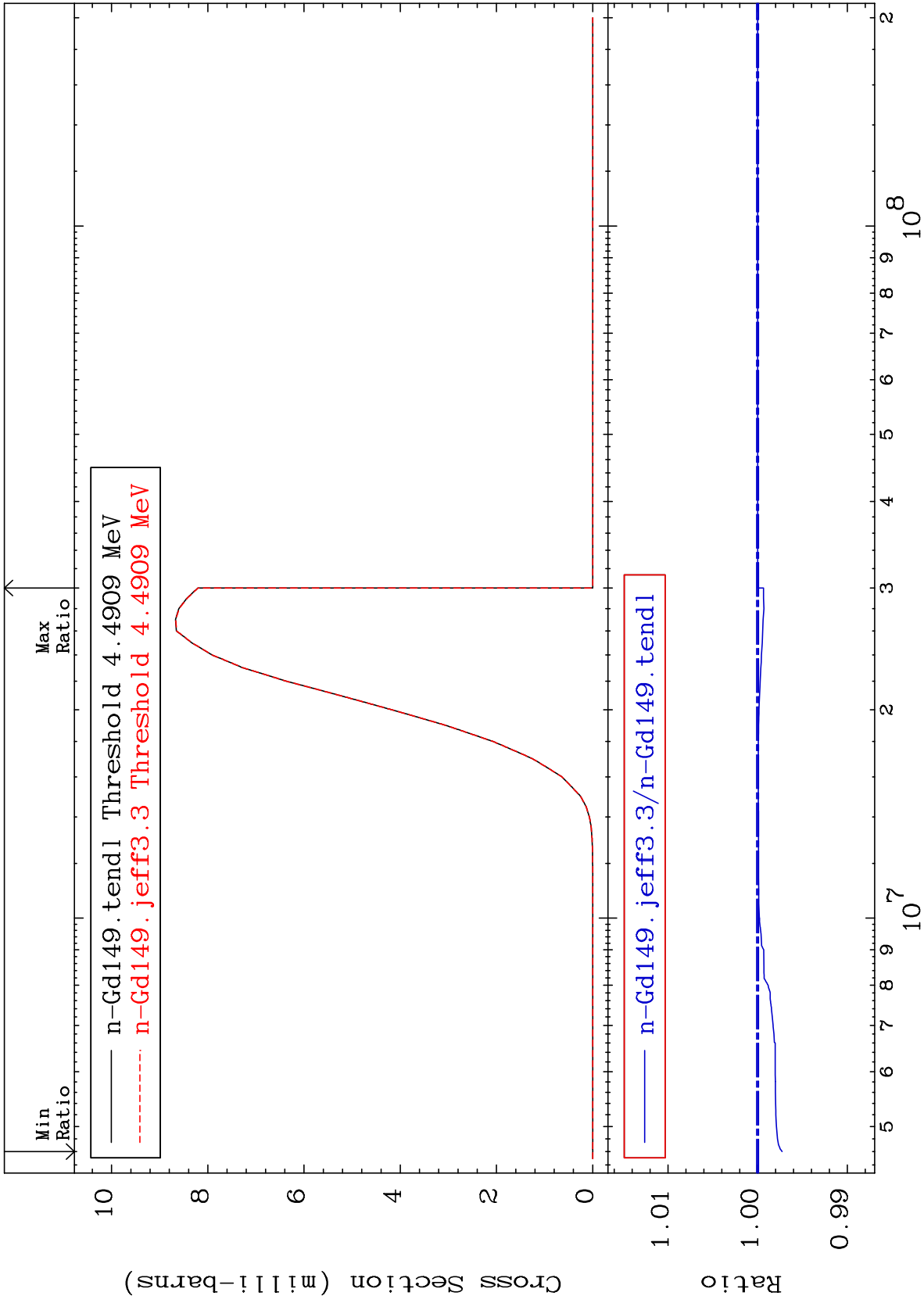
Cross Section

0.000

To 0.833 %



(n, t)  
Cross Section  
-0.274 To 0.000 %



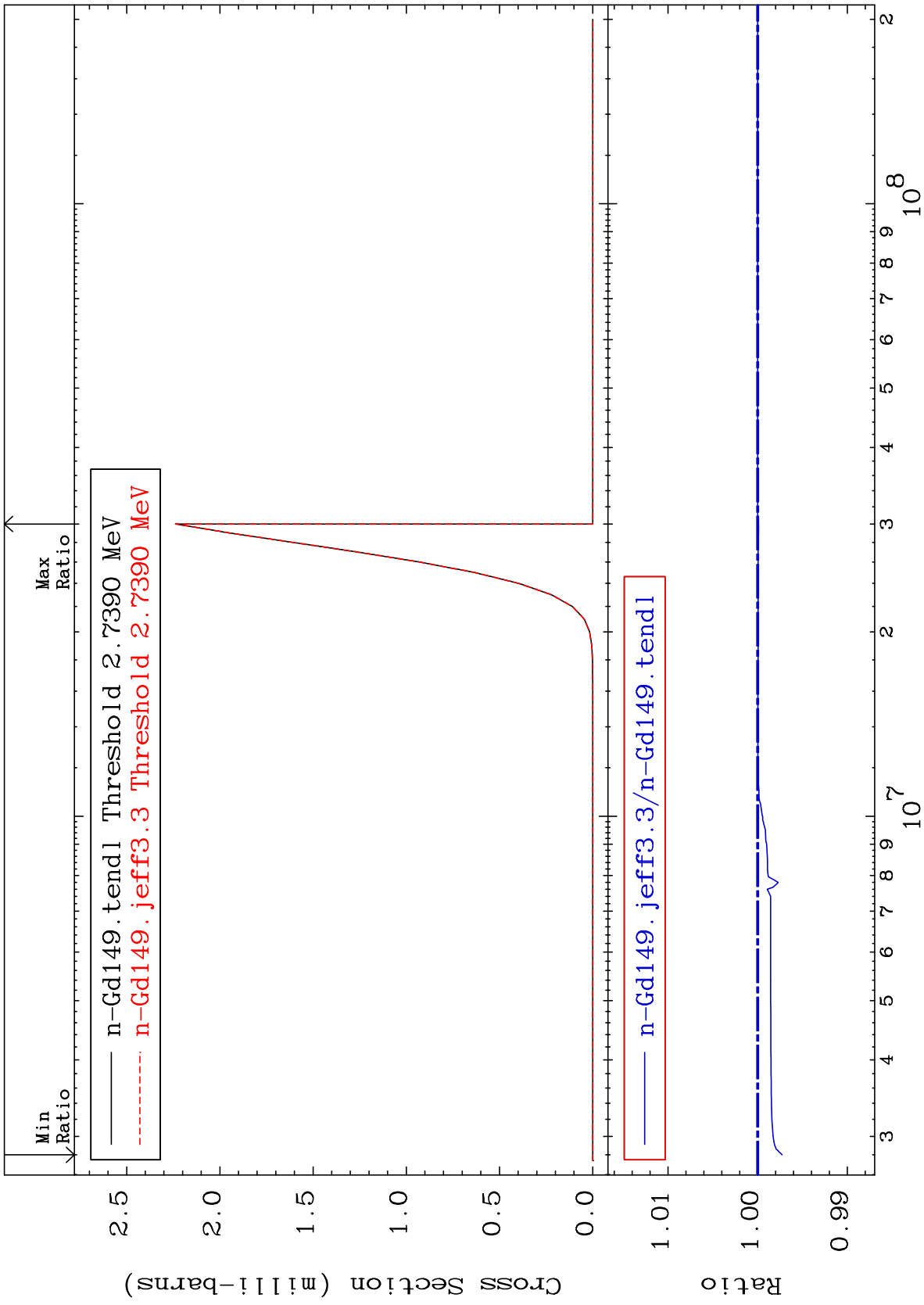
MAT 6416

(n, He-3)

64-Gd-149

Cross Section

-0.273 To 0.000 %



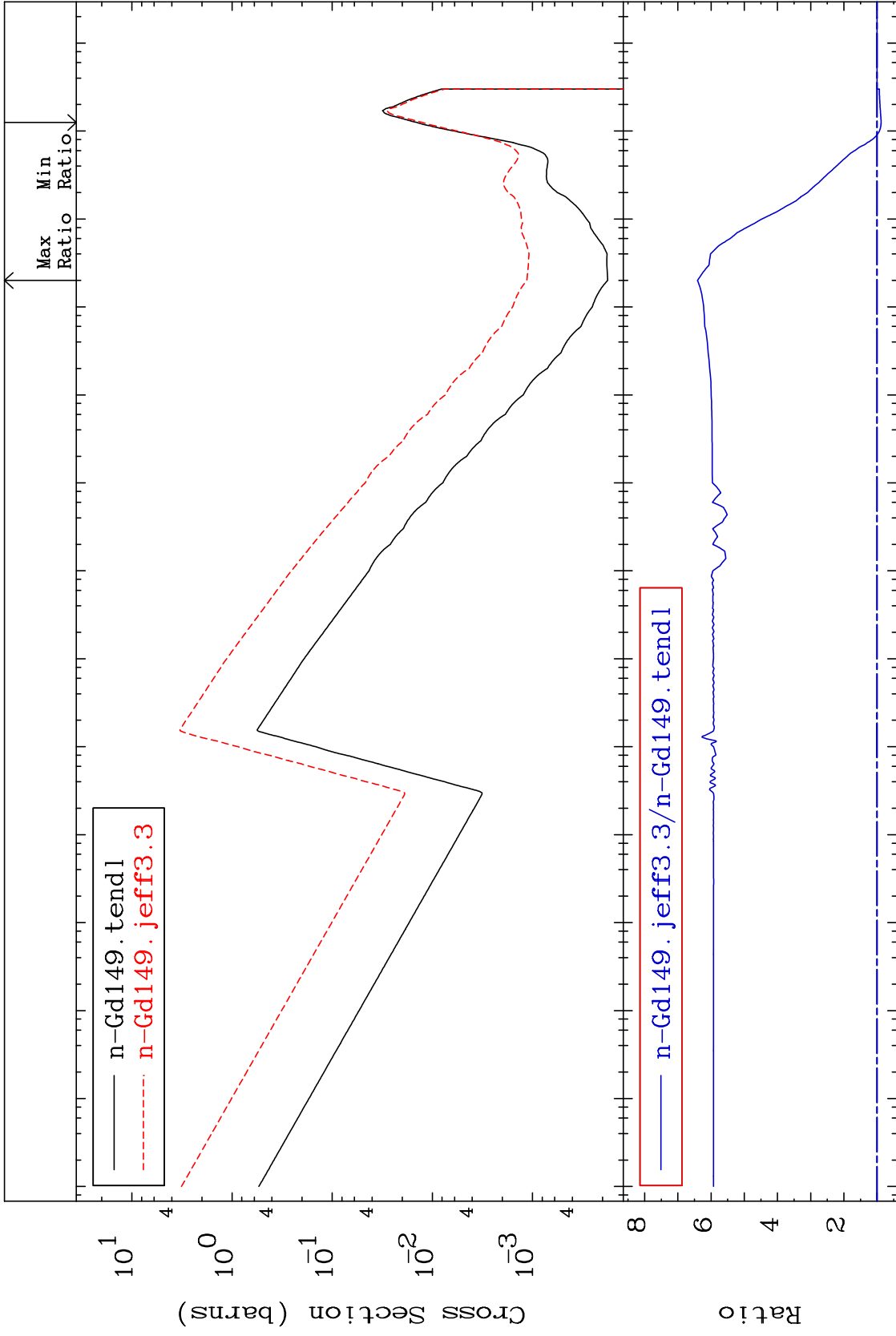
MAT 6416

(n,  $\alpha$ )

64-Gd-149

Cross Section

-12.00 To 540.9 %



Incident Energy (eV)

64-Gd-149

56



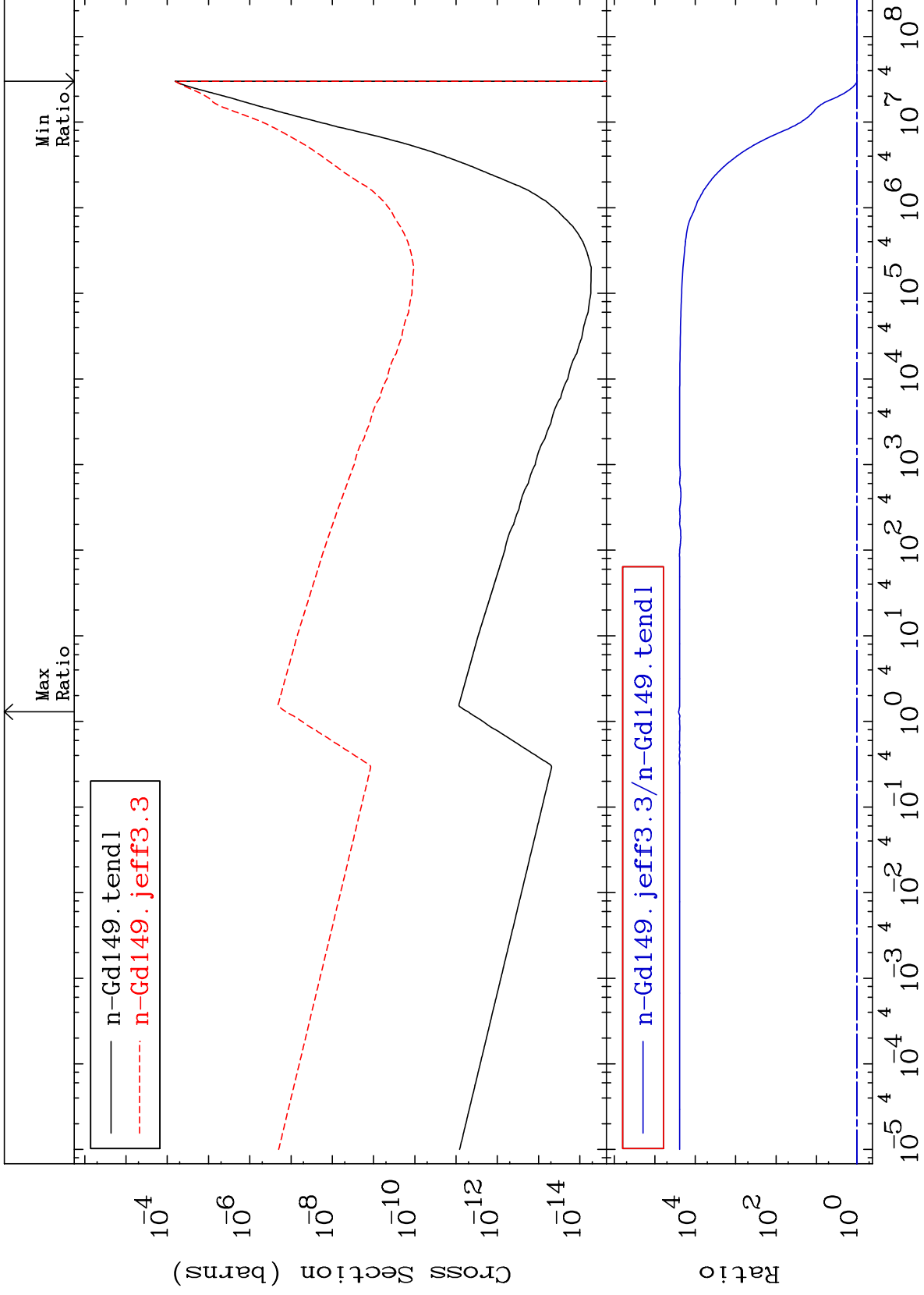
MAT 6416

(n,2α)

64-Gd-149

Cross Section

-2.137 To 9999. %



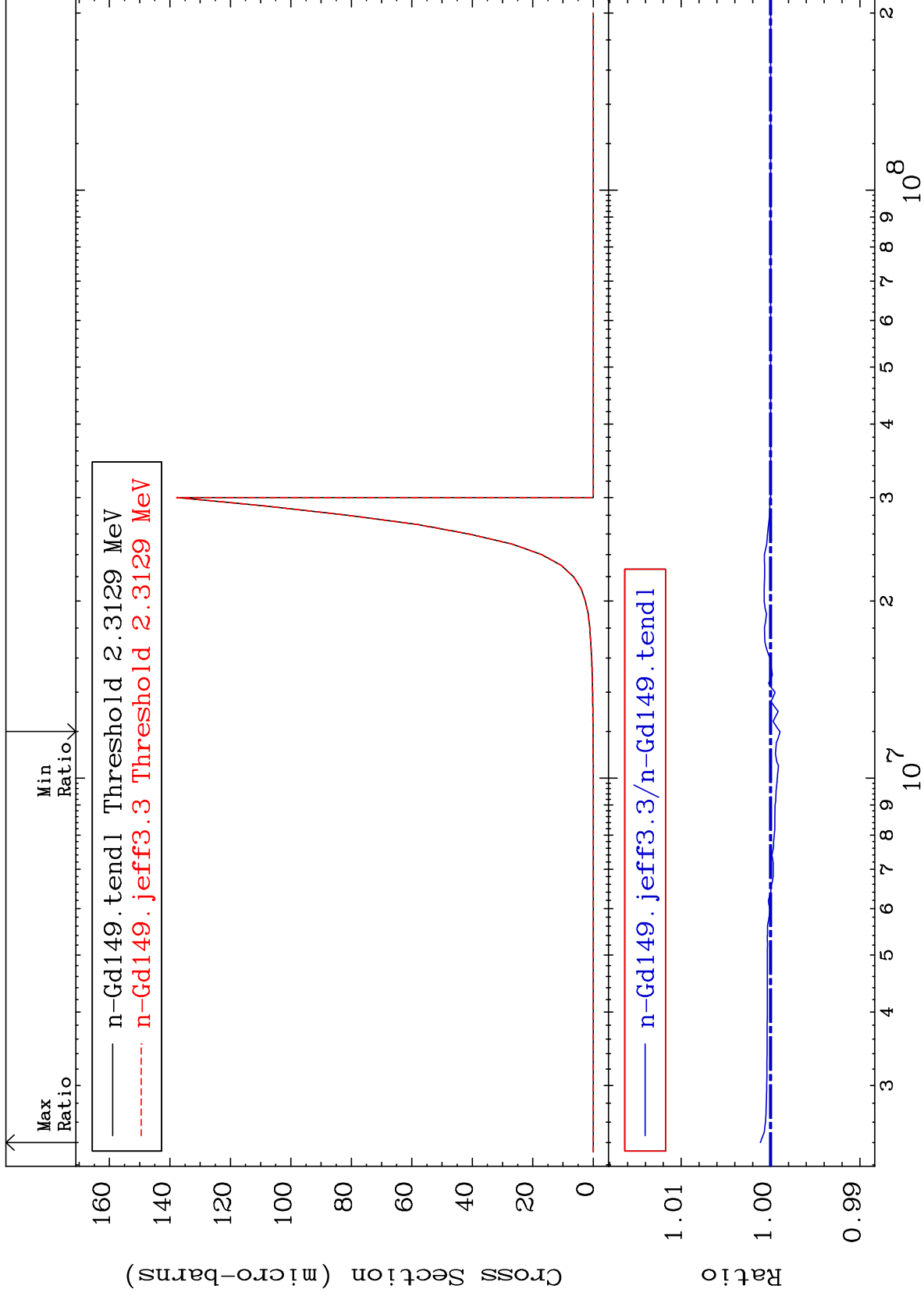
57

Incident Energy (eV)

64-Gd-149

Cross Section

-0.105 To 0.115 %



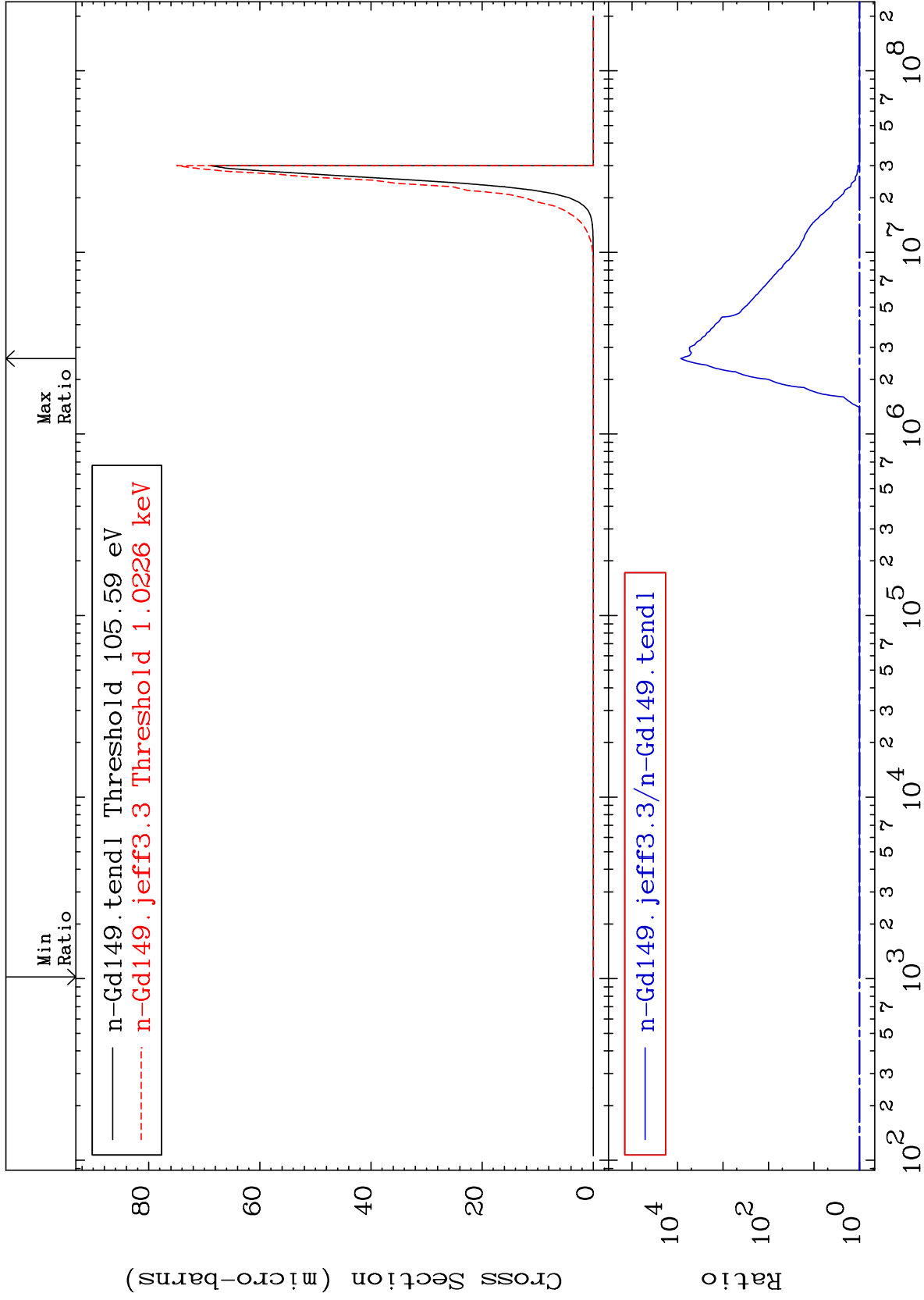
MAT 6416

(n, p)  $\alpha$

64-Gd-149

Cross Section

0.000 To 9999. %



59

Incident Energy (eV)

64-Gd-149

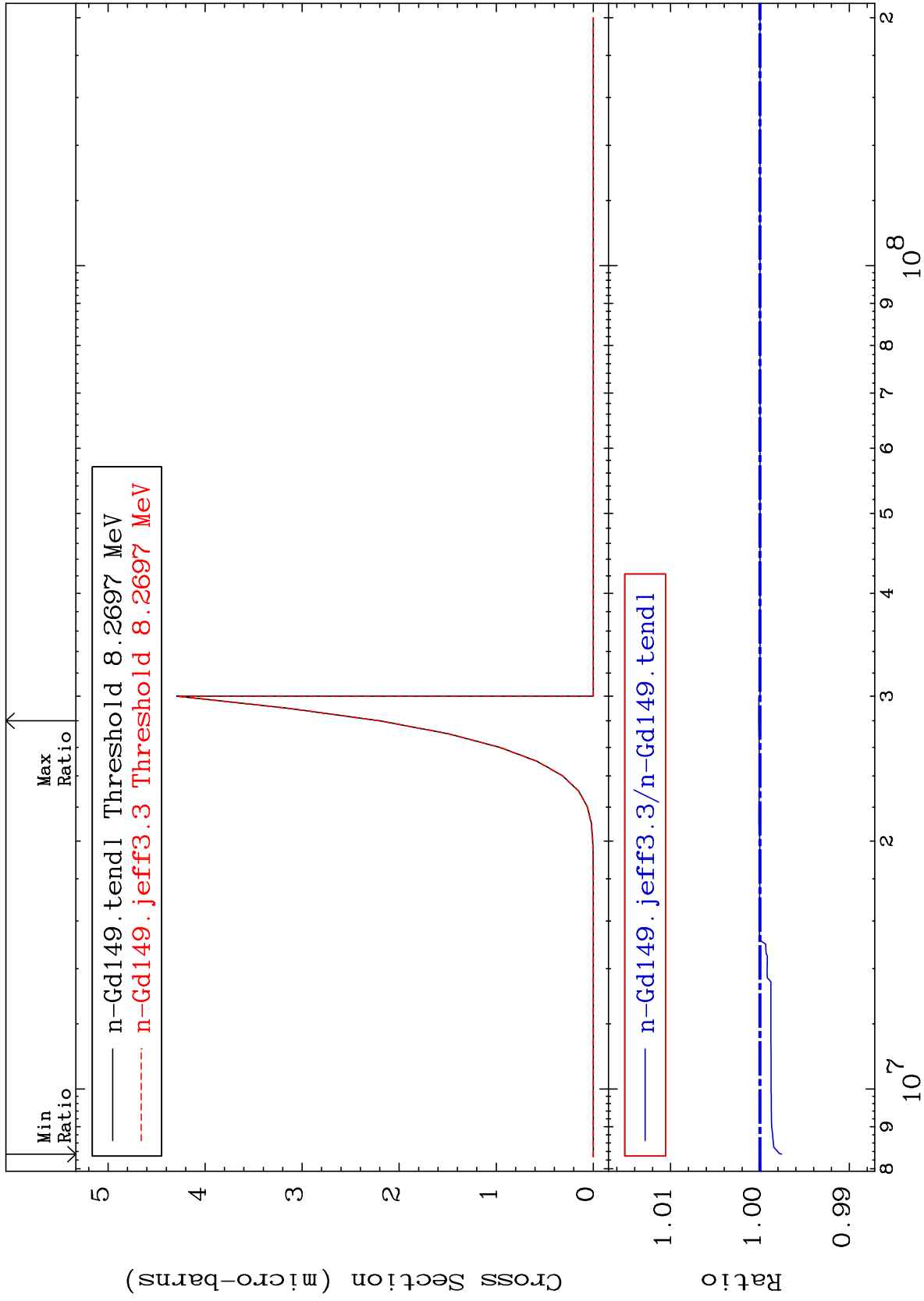
MAT 6416

(n, p) d

64-Gd-149

Cross Section

-0.242 To 0.014 %



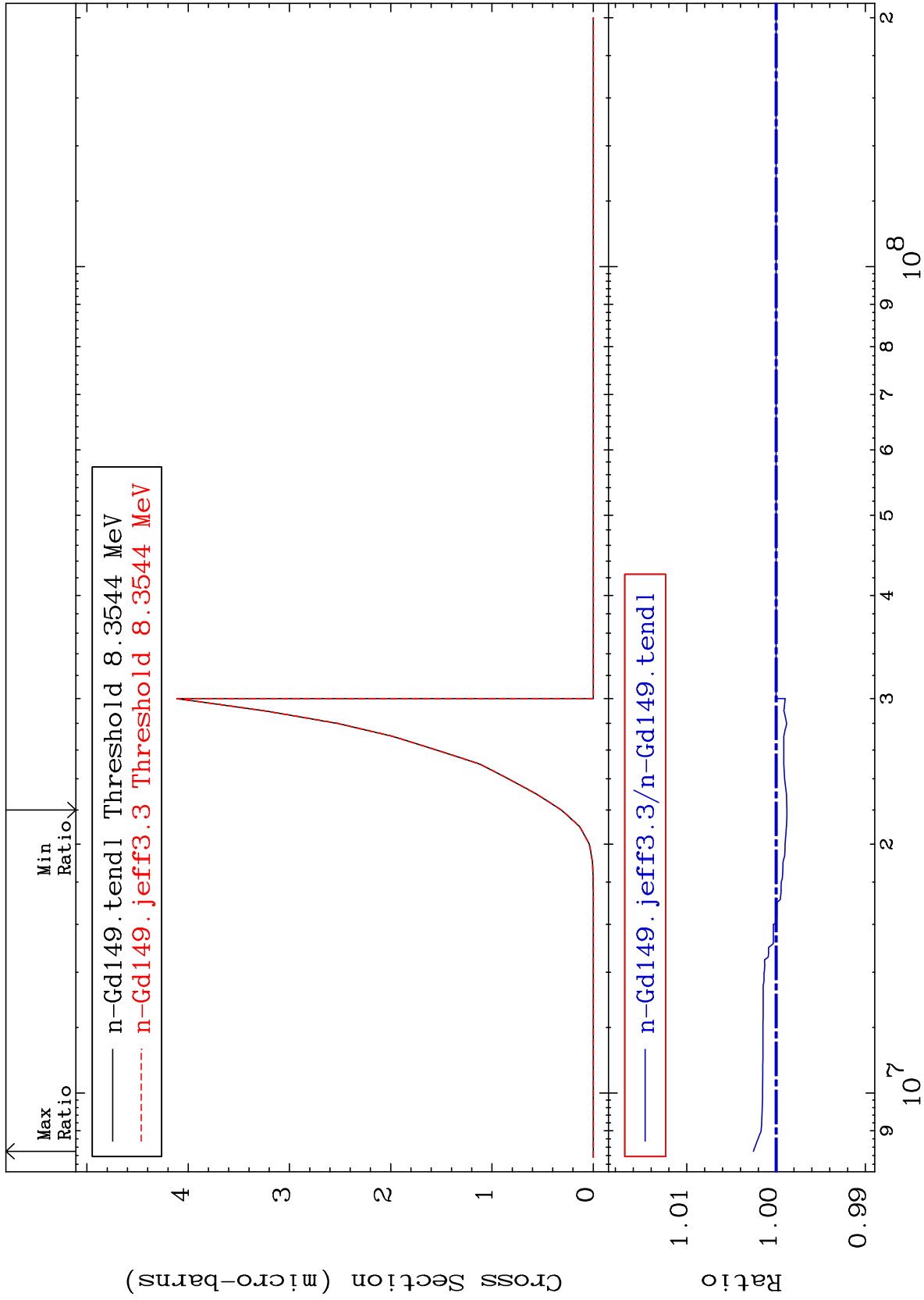
MAT 6416

(n,p) t

64-Gd-149

Cross Section

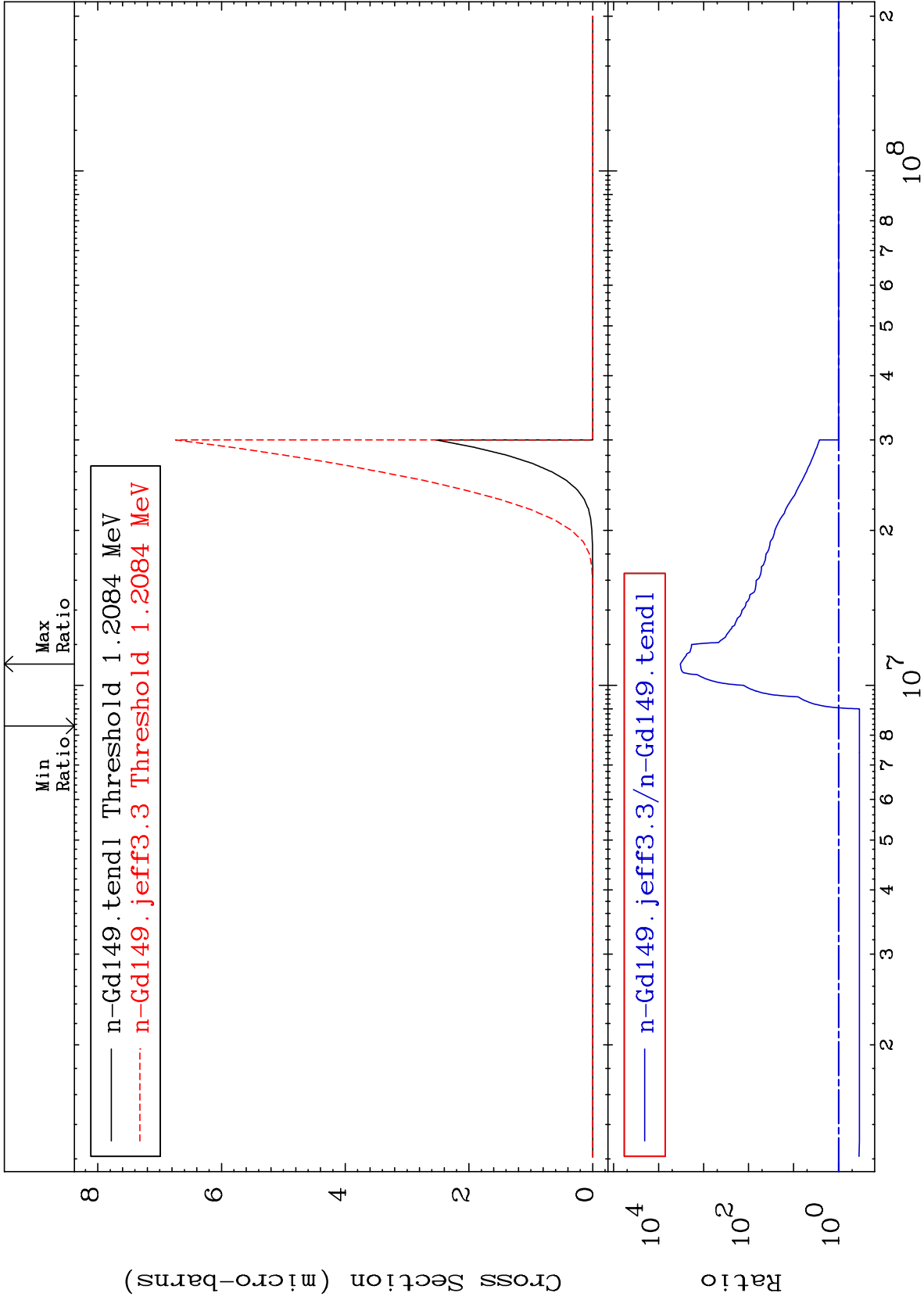
-0.121 To 0.255 %

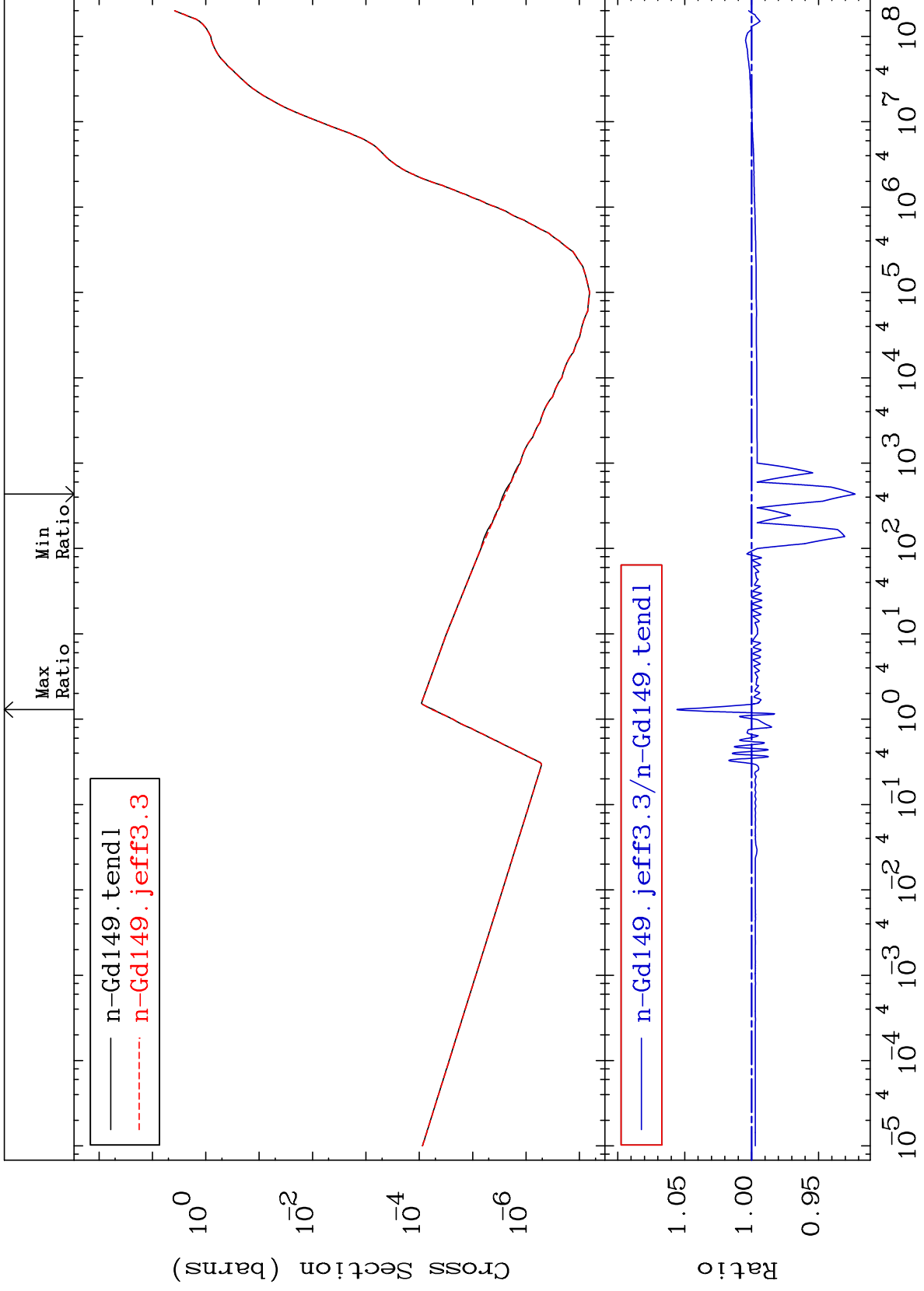


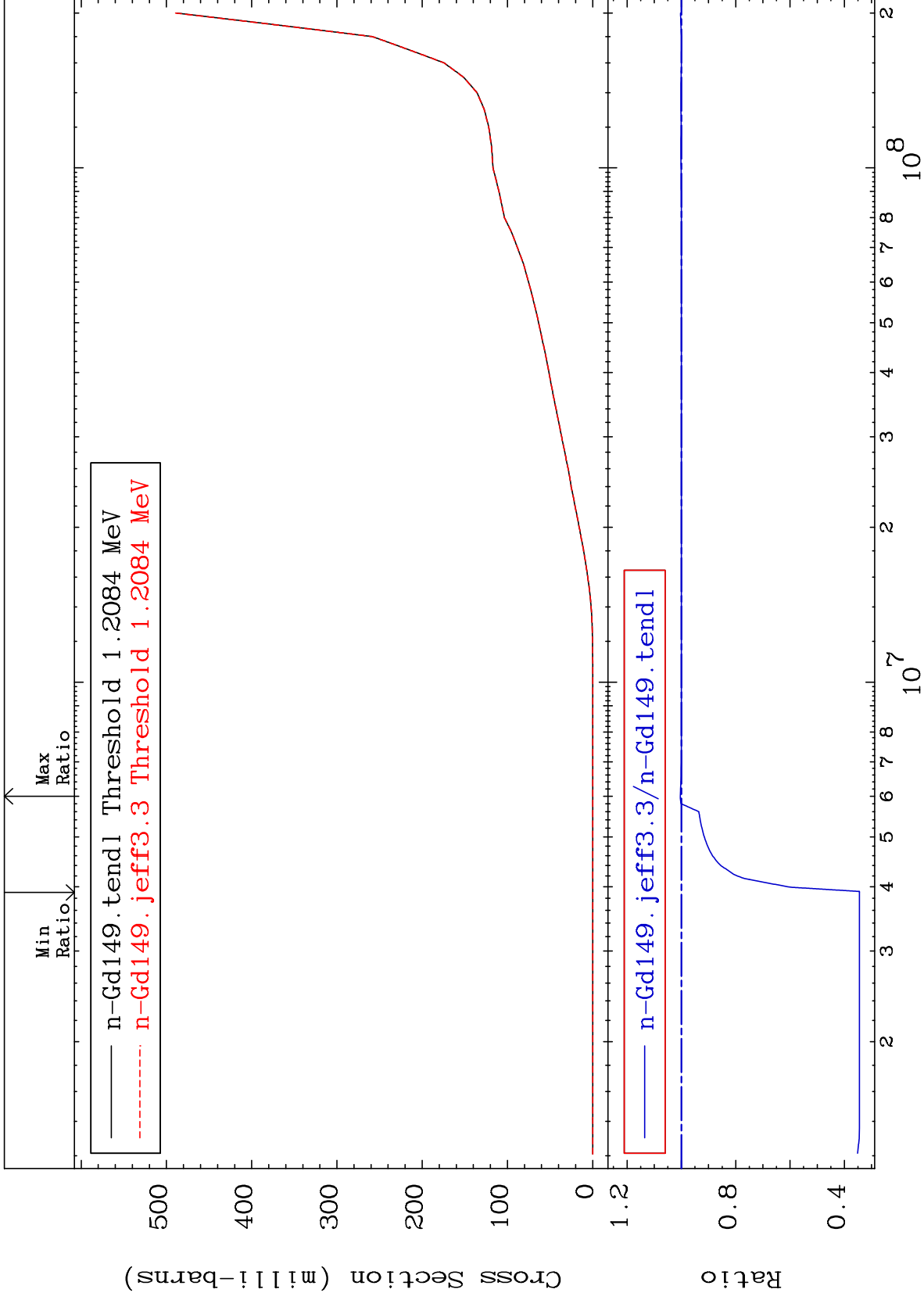
61

Incident Energy (eV)

64-Gd-149





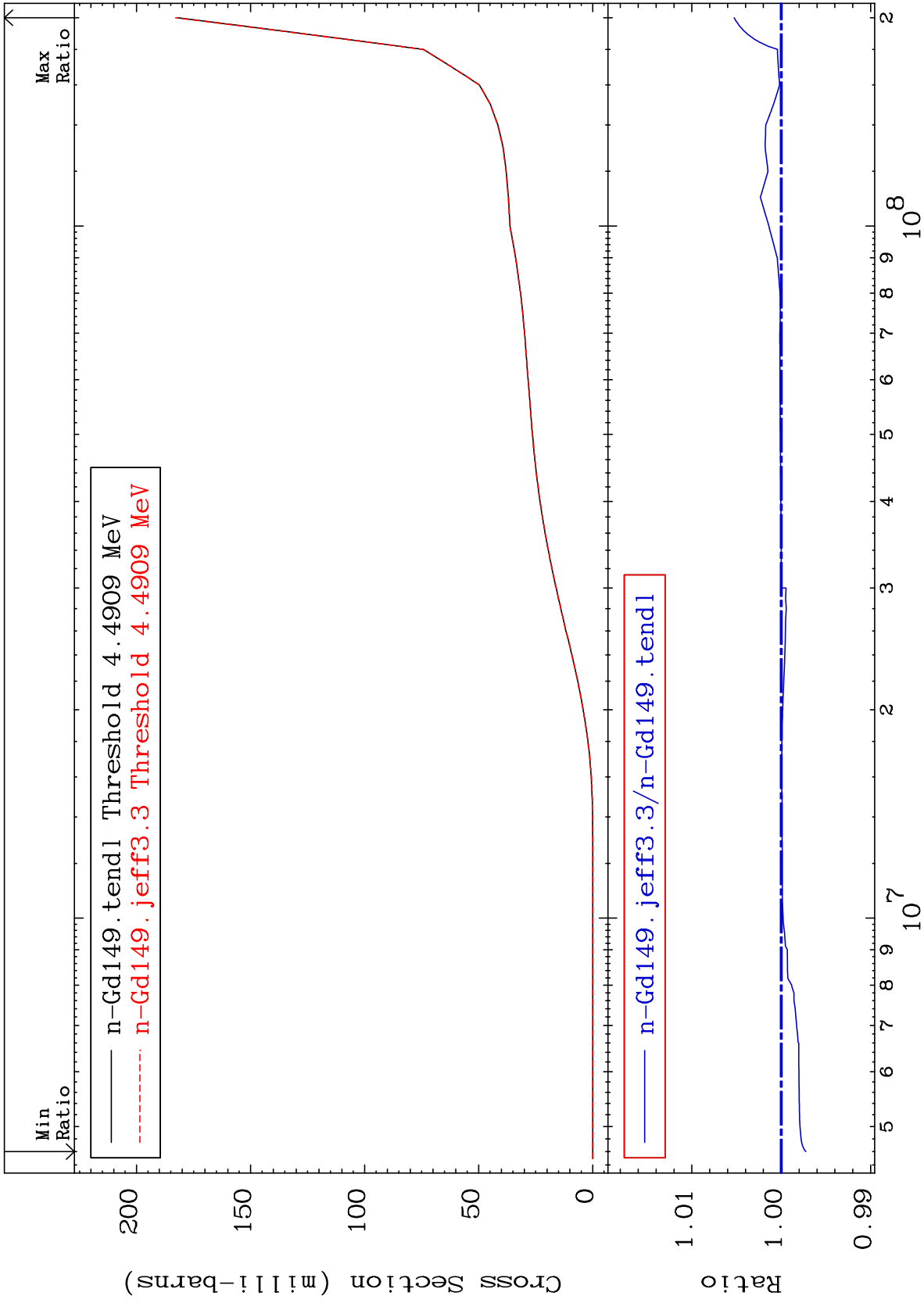




MAT 6416

Tritium Production  
Cross Section

64-Gd-149  
-0.274 To 0.528 %



65

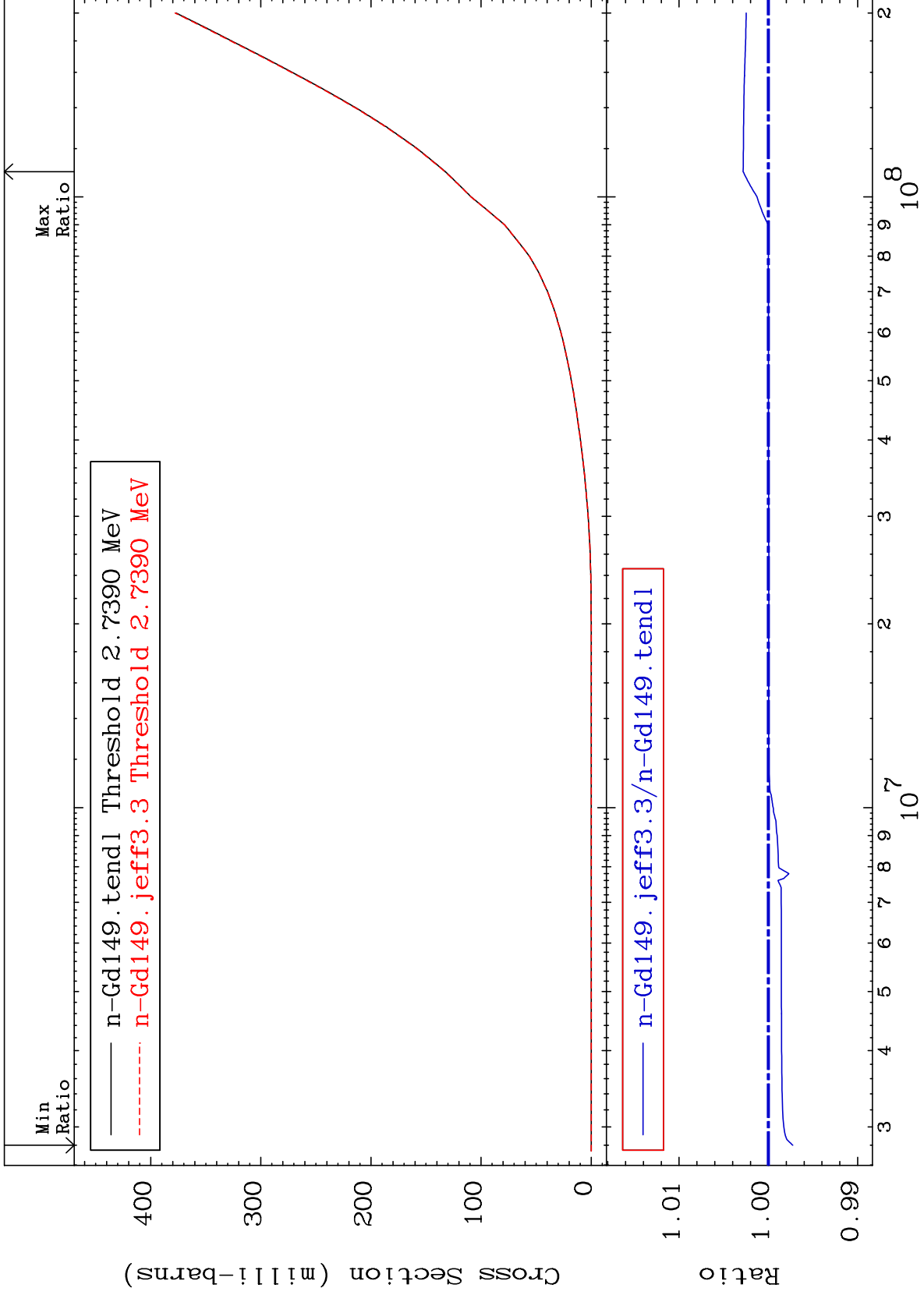
Incident Energy (eV)

64-Gd-149

MAT 6416

He-3 Production  
Cross Section

64-Gd-149  
-0.273 To 0.283 %



66

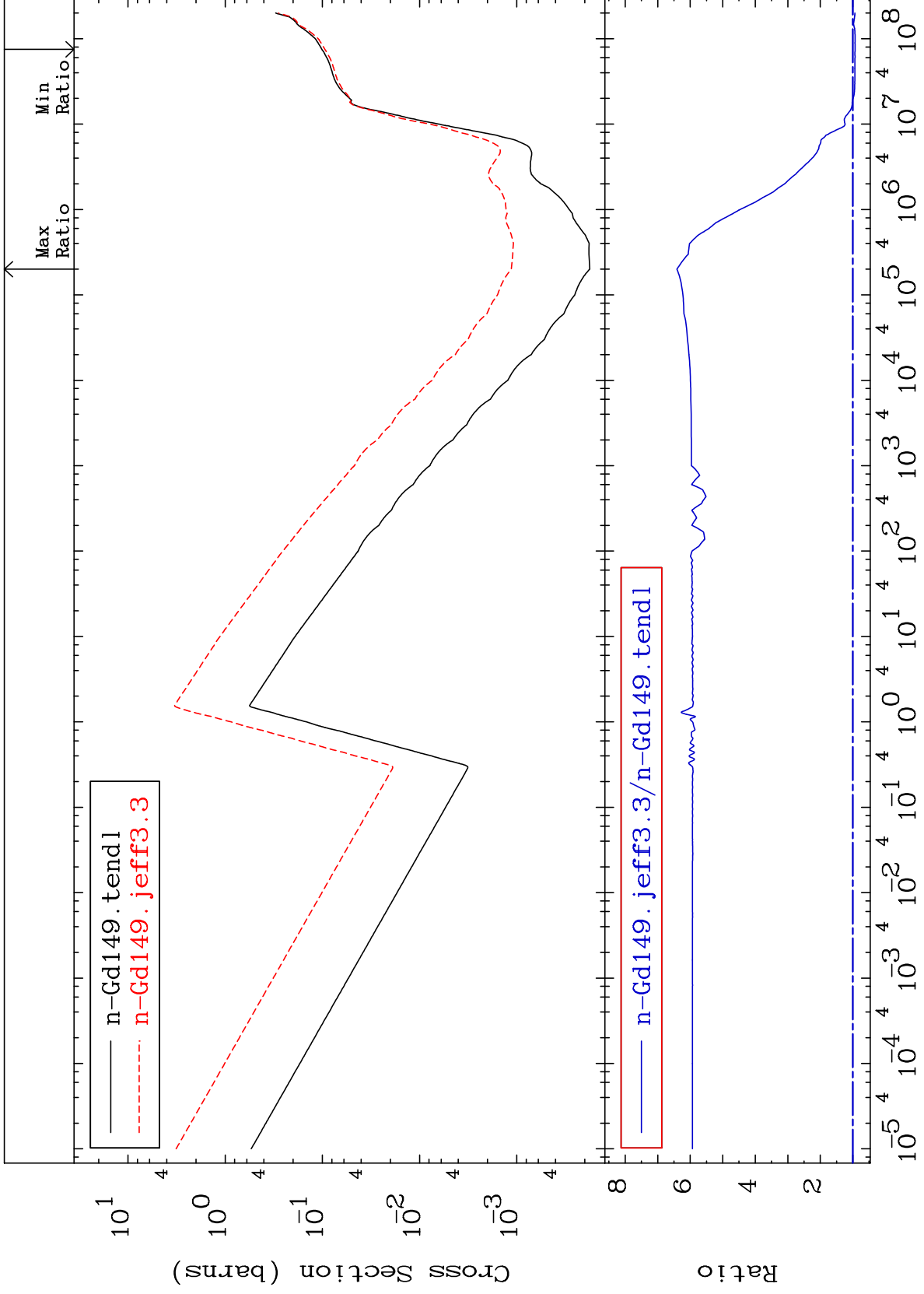
Incident Energy (eV)

64-Gd-149

MAT 6416

He-4 Production  
Cross Section

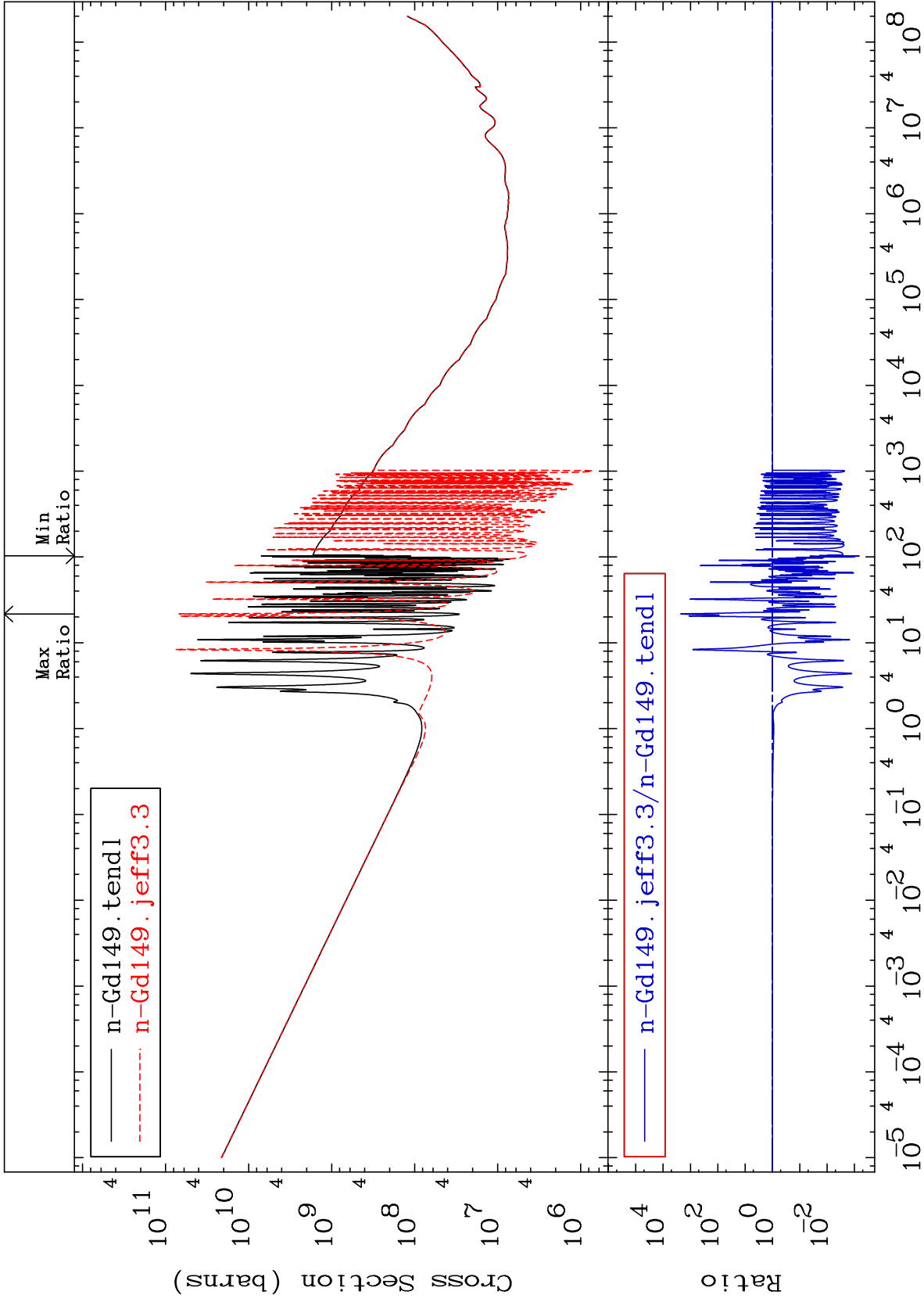
64-Gd-149  
-7.001 To 540.9 %



67

Incident Energy (eV)

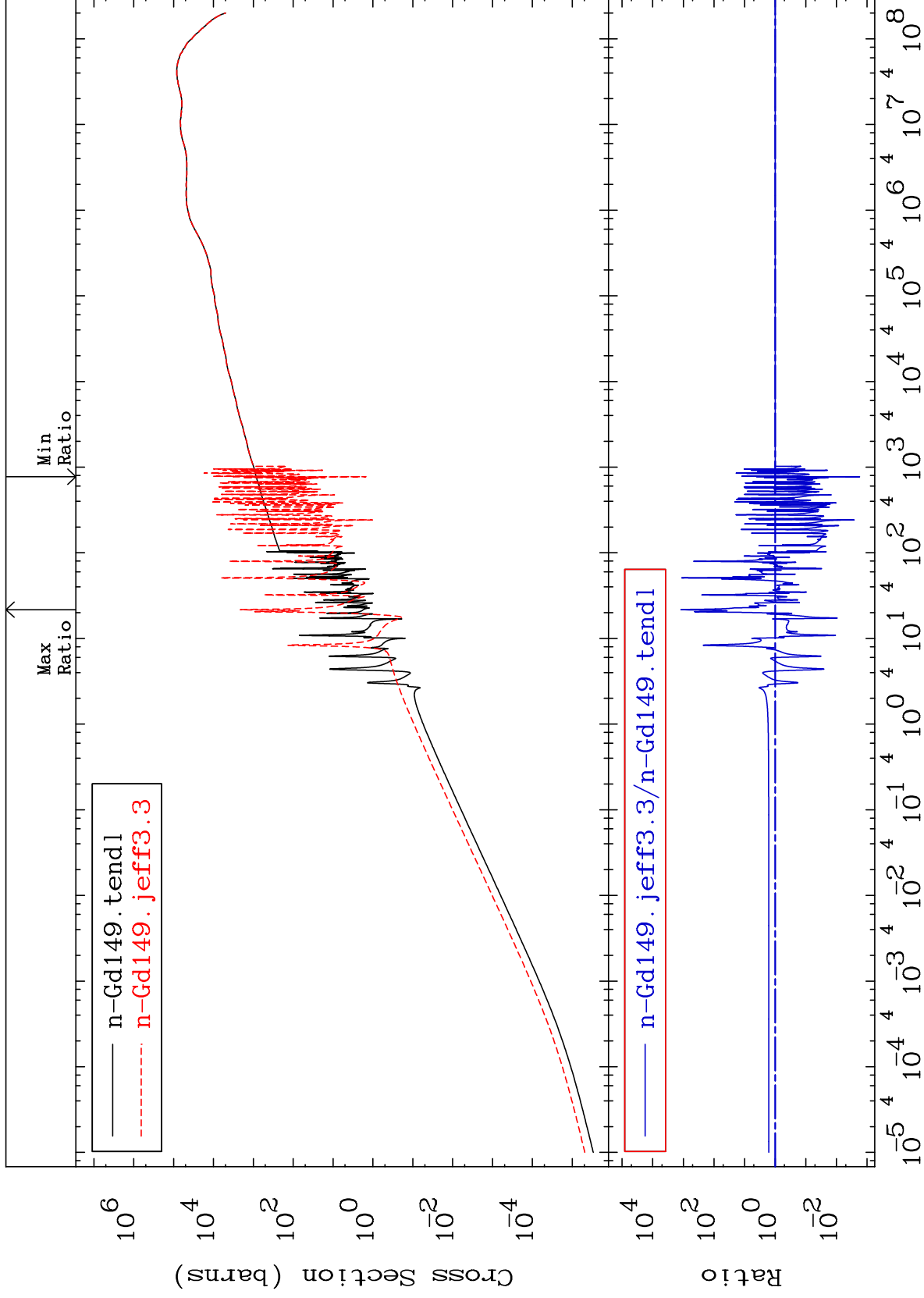
64-Gd-149



MAT 6416

Kerma elastic  
Cross Section

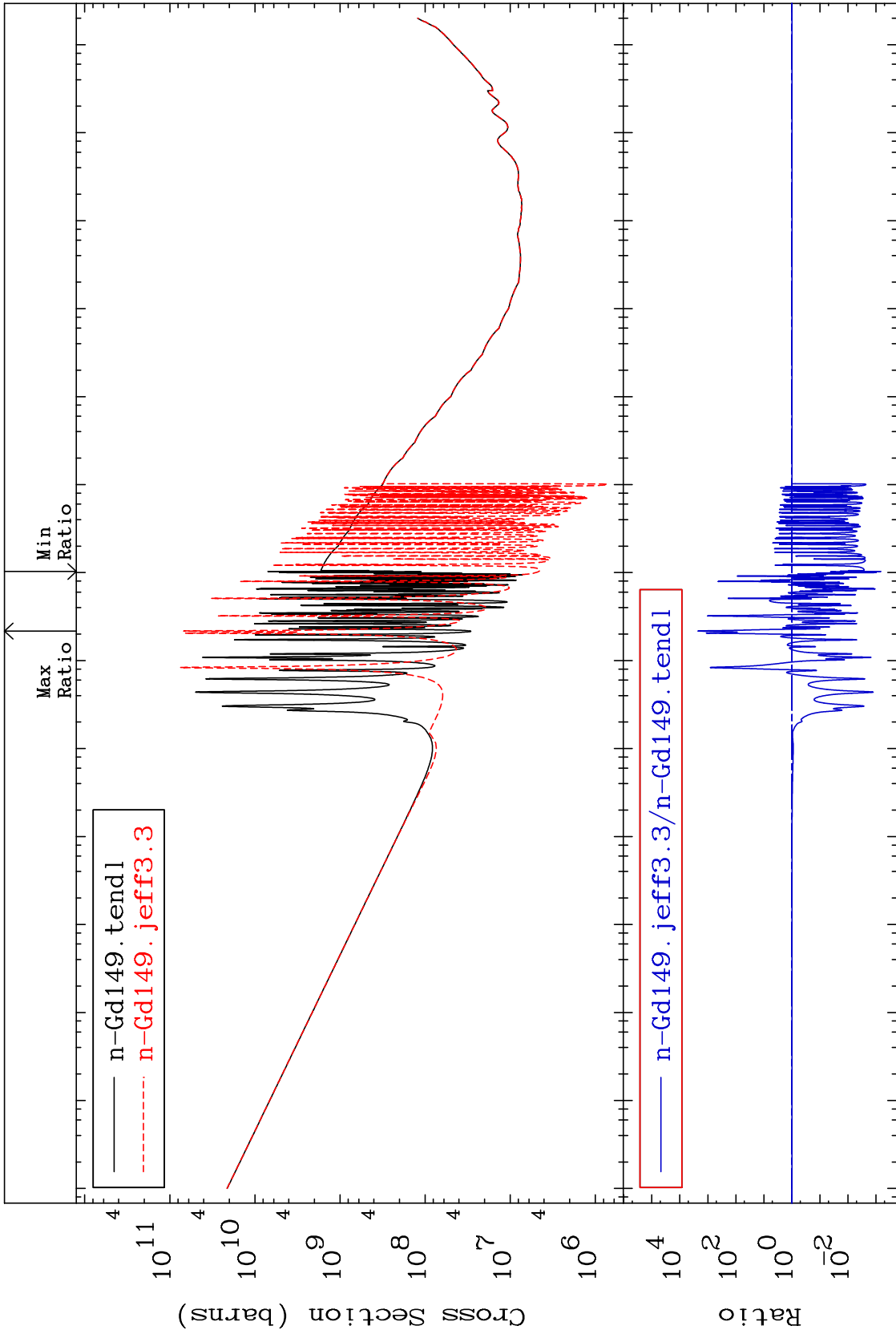
64-Gd-149  
-99.82 To 9999. %

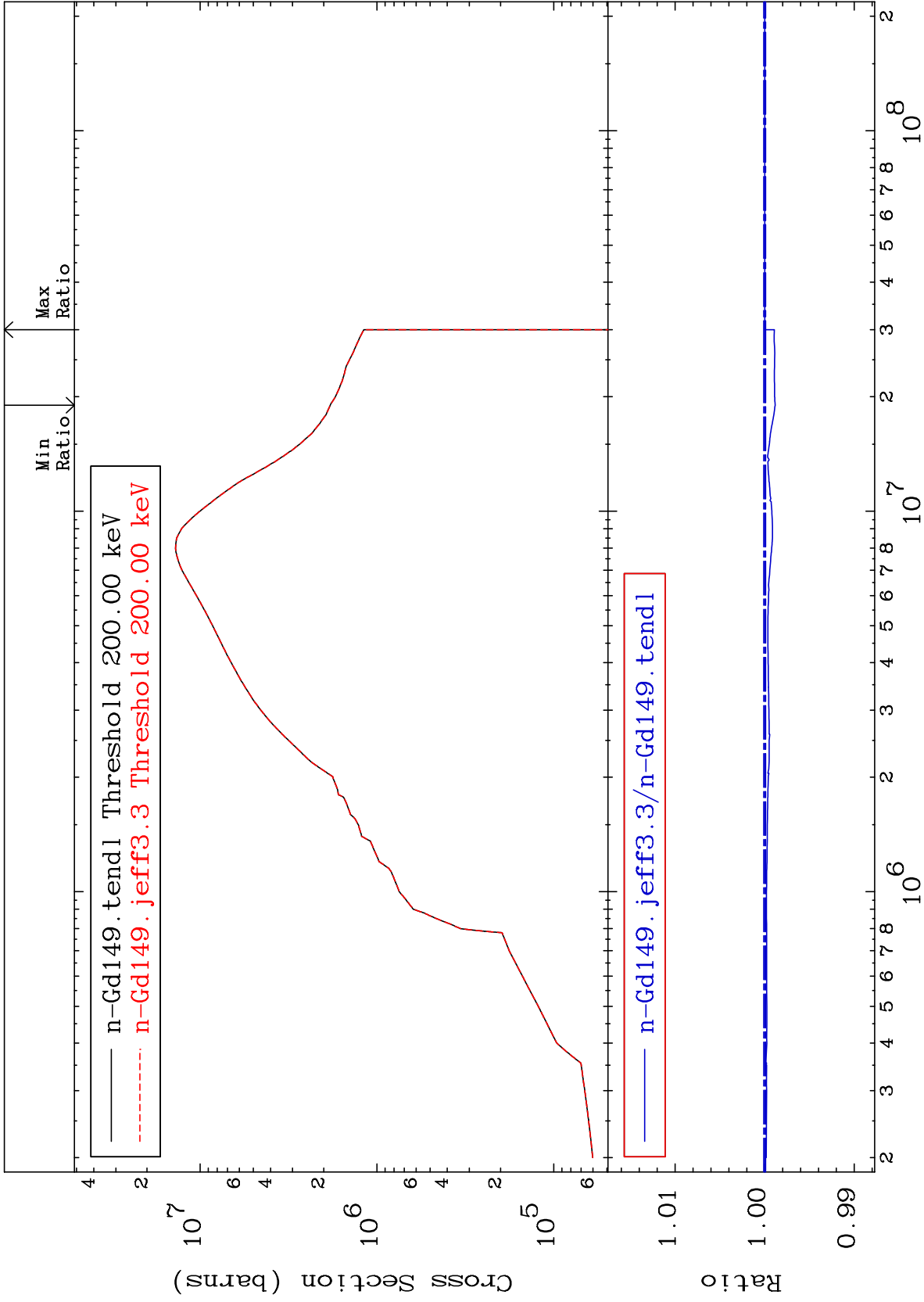


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Incident Energy (eV)

64-Gd-149

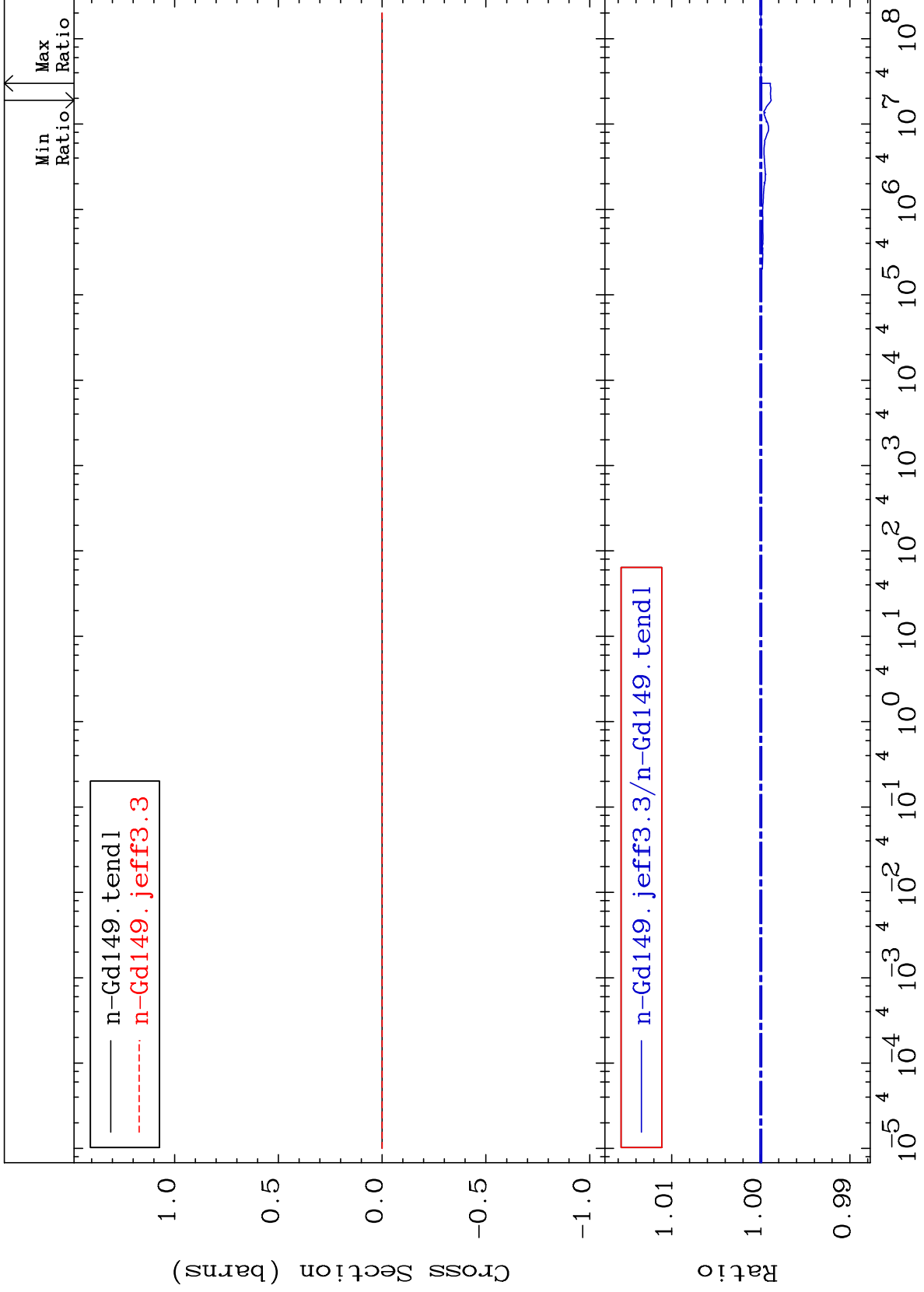




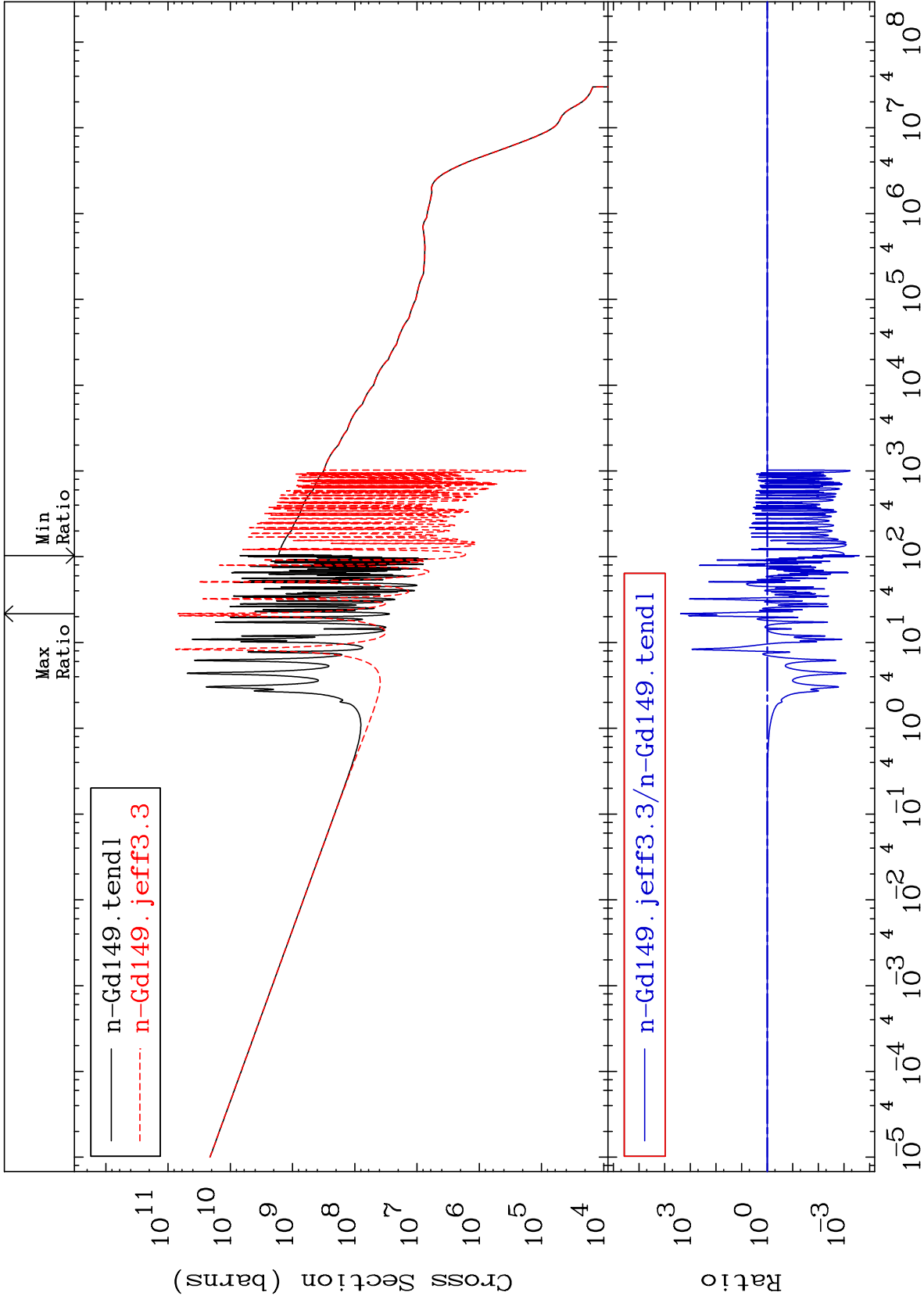
MAT 6416

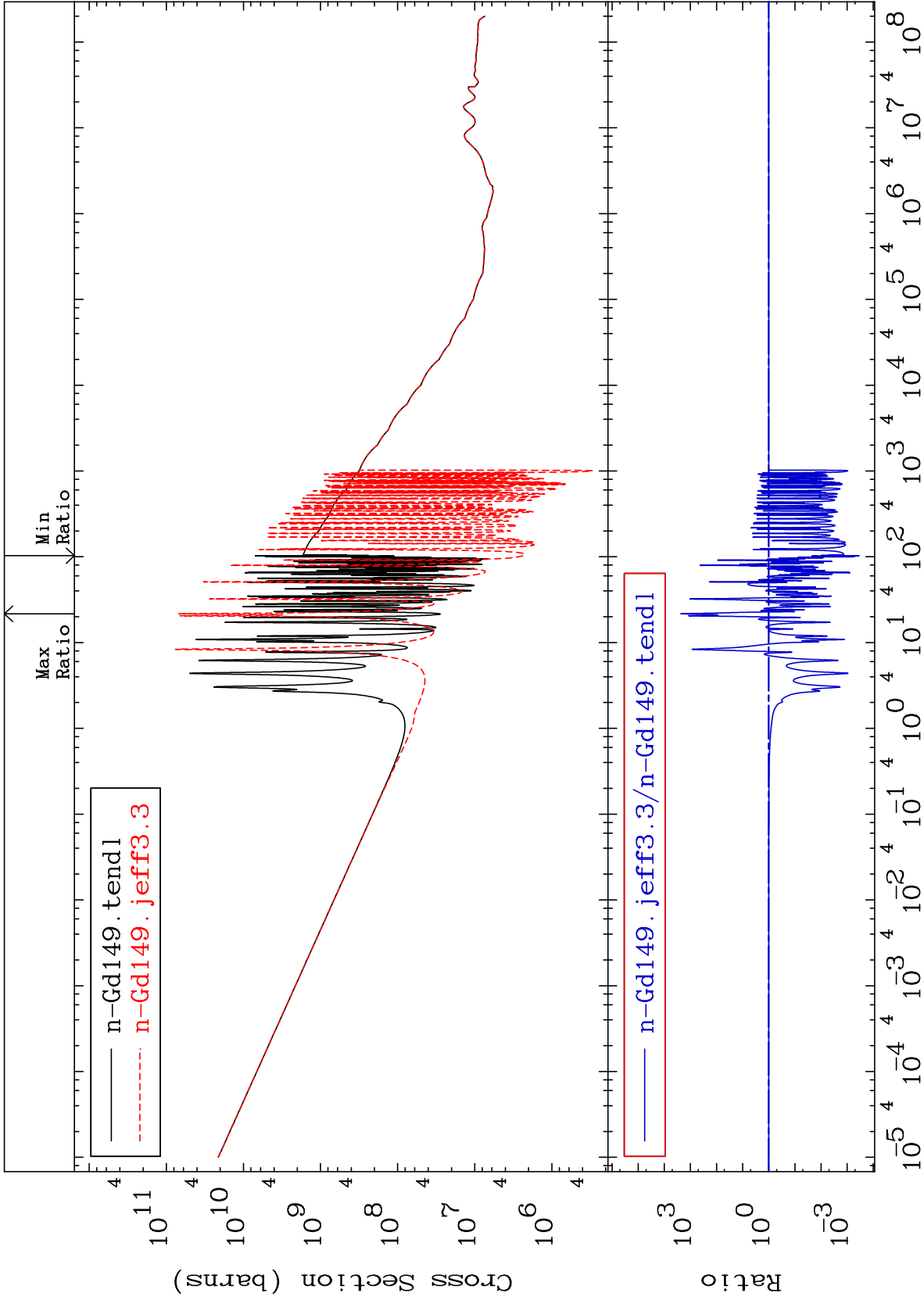
Kerma fission (mt18 or mt19-20-21-38)  
Cross Section

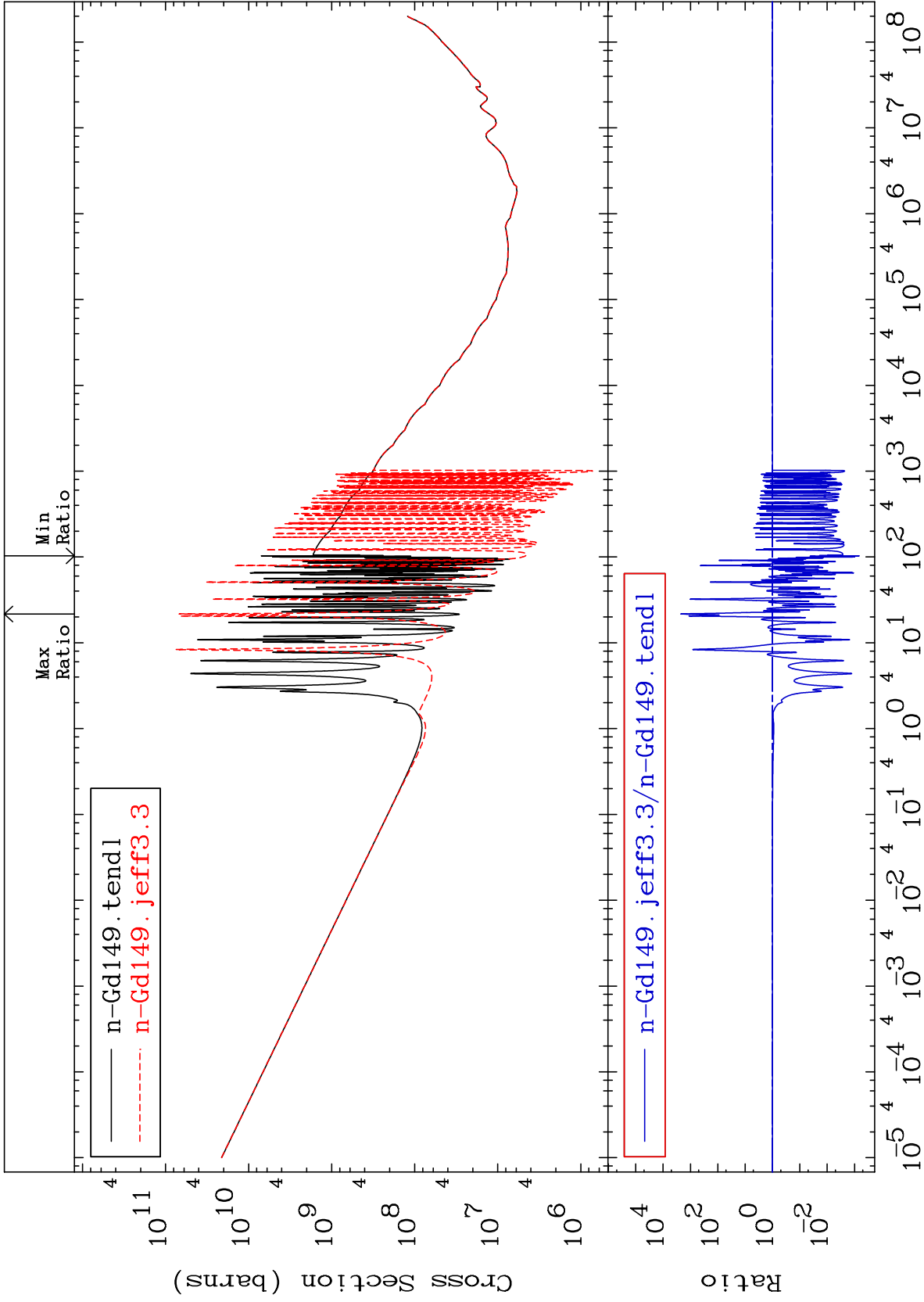
64-Gd-149  
-0.116 To 0.000 %







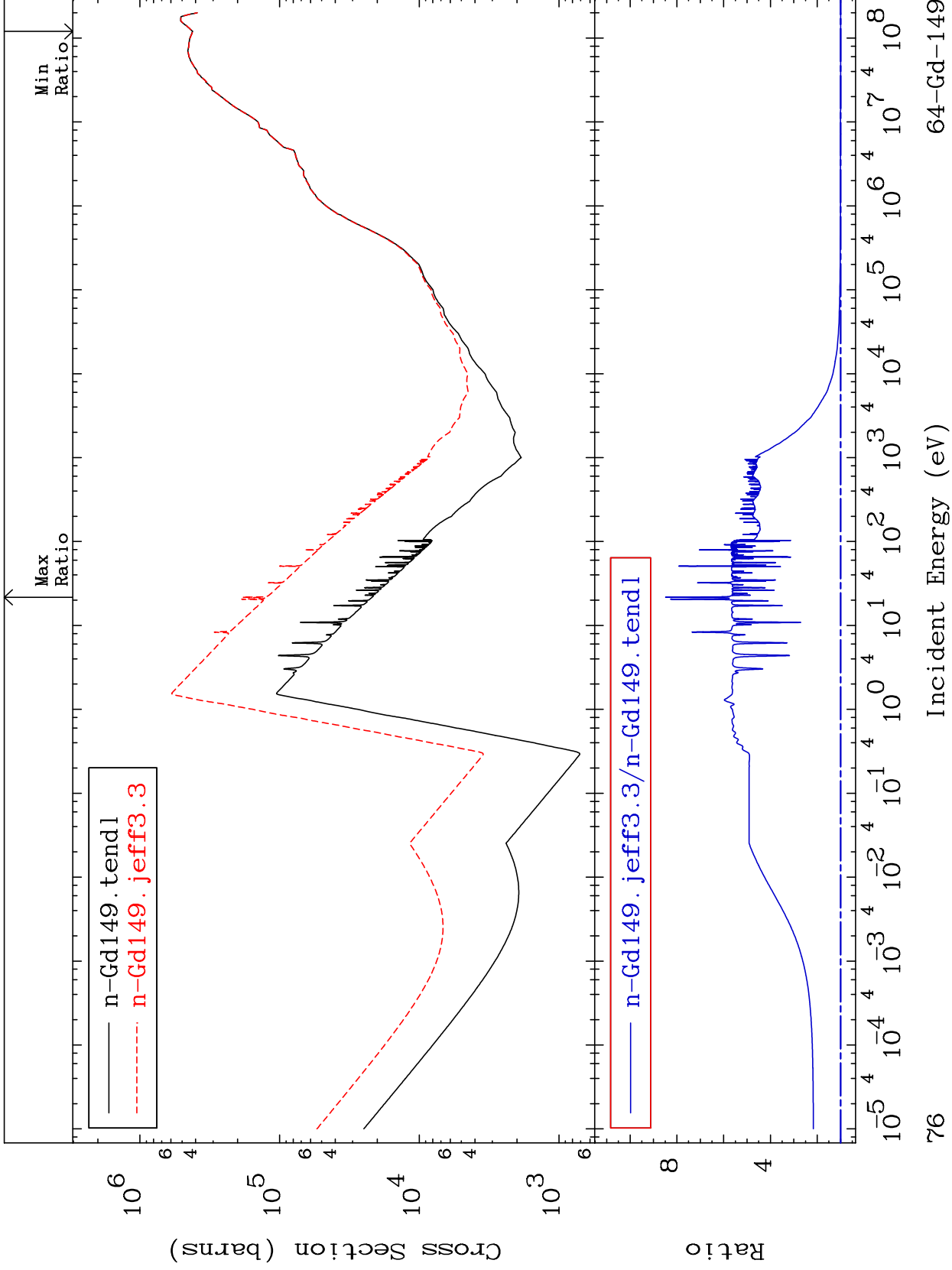




MAT 6416

Dpa total (eV-barns)  
Cross Section

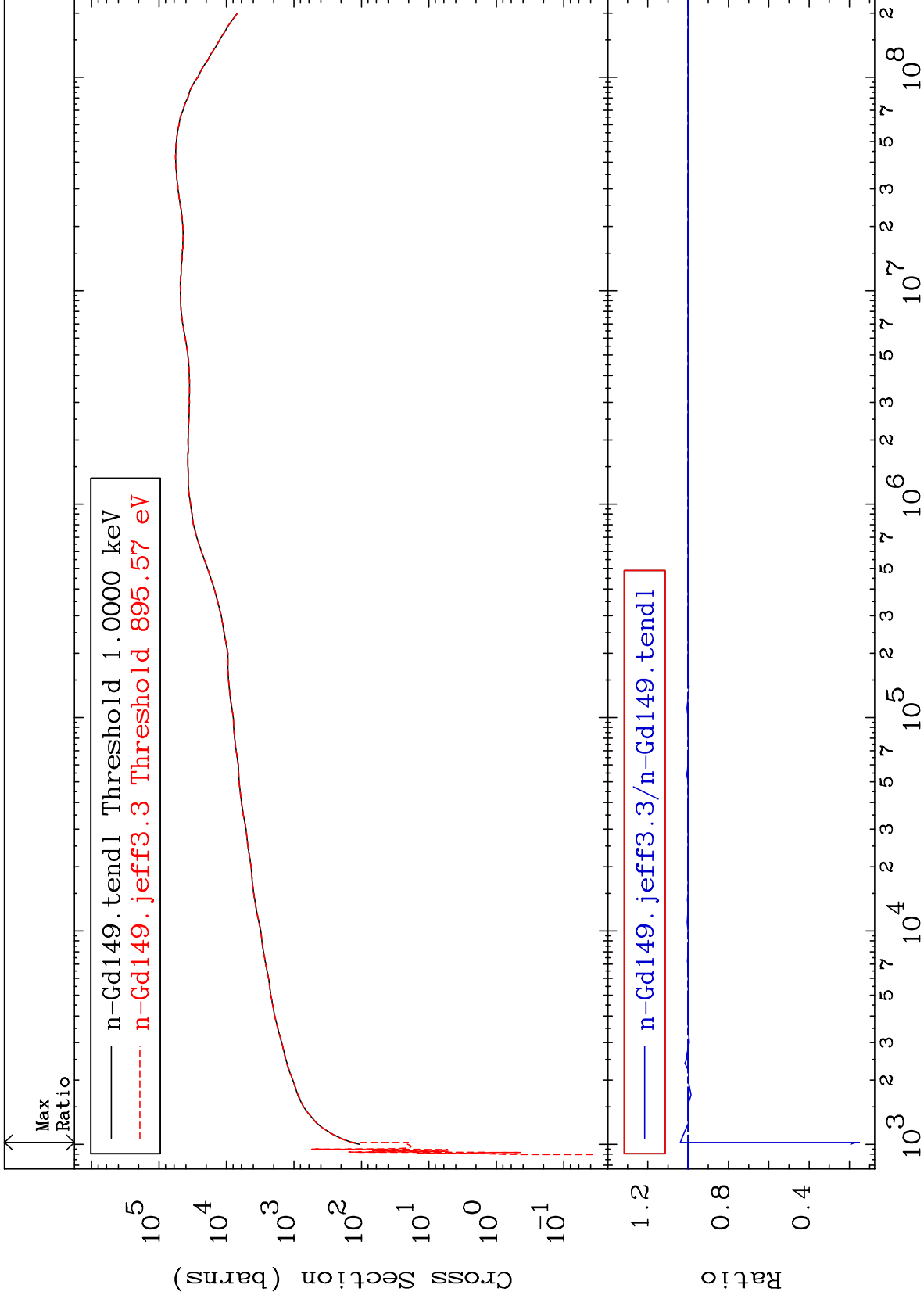
64-Gd-149  
-0.395 To 748.7 %



MAT 6416

Dpa elastic (mt2)  
Cross Section

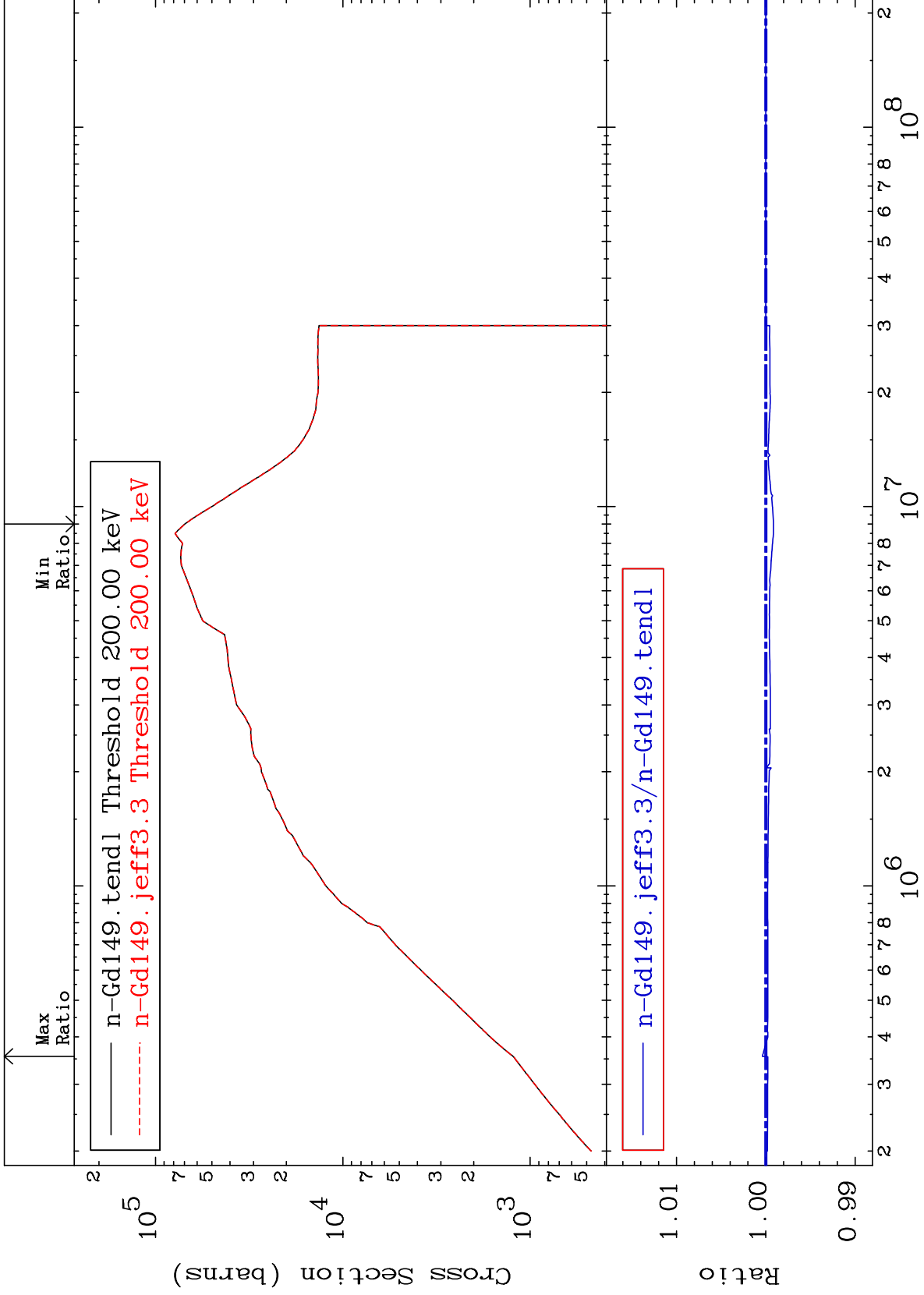
64-Gd-149  
-84.95 To 3.839 %

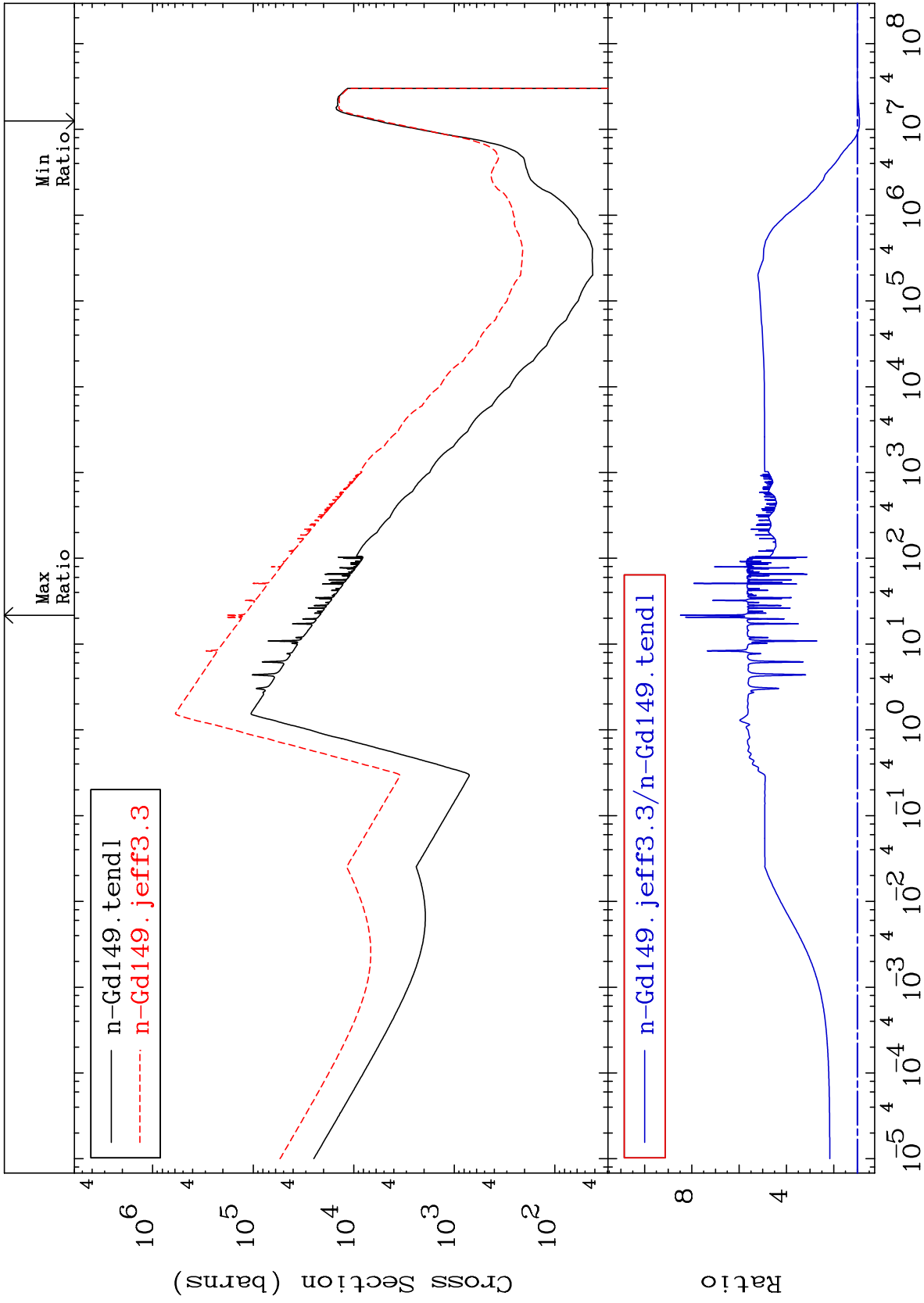


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Incident Energy (eV)

64-Gd-149



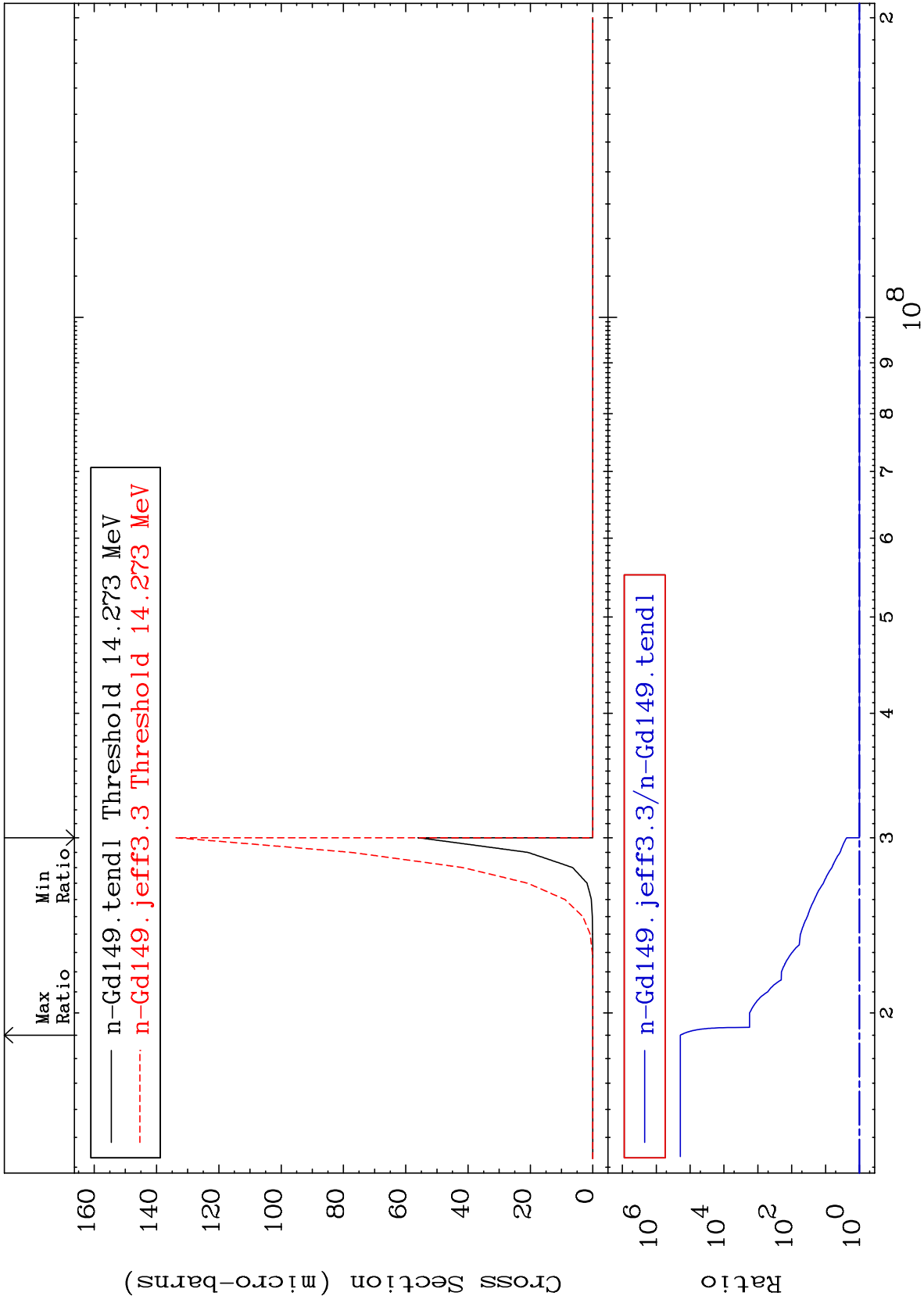


MAT 6416

(n,3n)  $\alpha$ : 62-Sm-143g

64-Gd-149

Radionuclide Production Cross Section 0.000 To 9999. %



80

Incident Energy (eV)

64-Gd-149



MAT 6416

(n,3n)  $\alpha$ :62-Sm-143m2

64-Gd-149

Radionuclide Production Cross Section 0.000 To 9999. %

