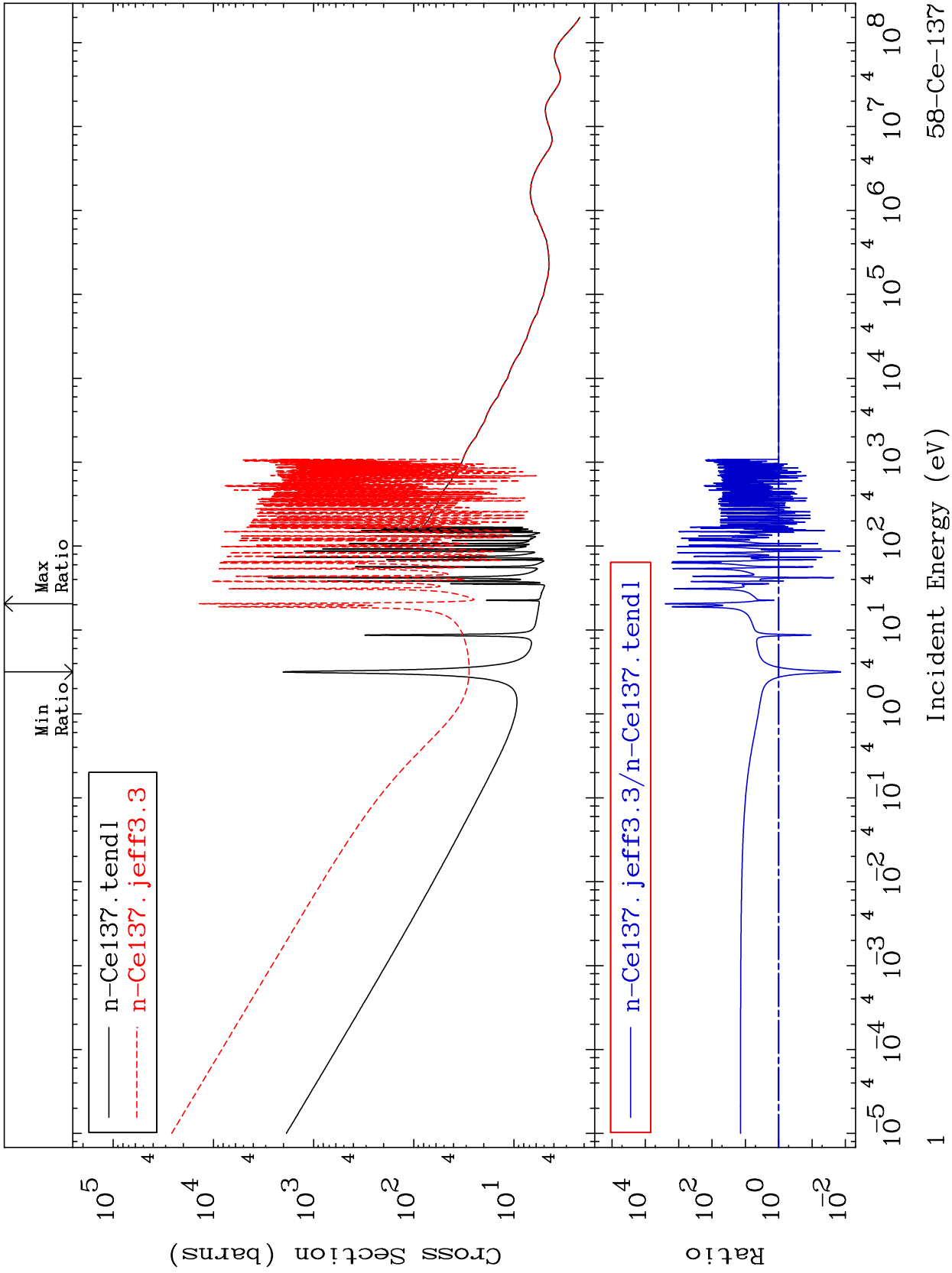
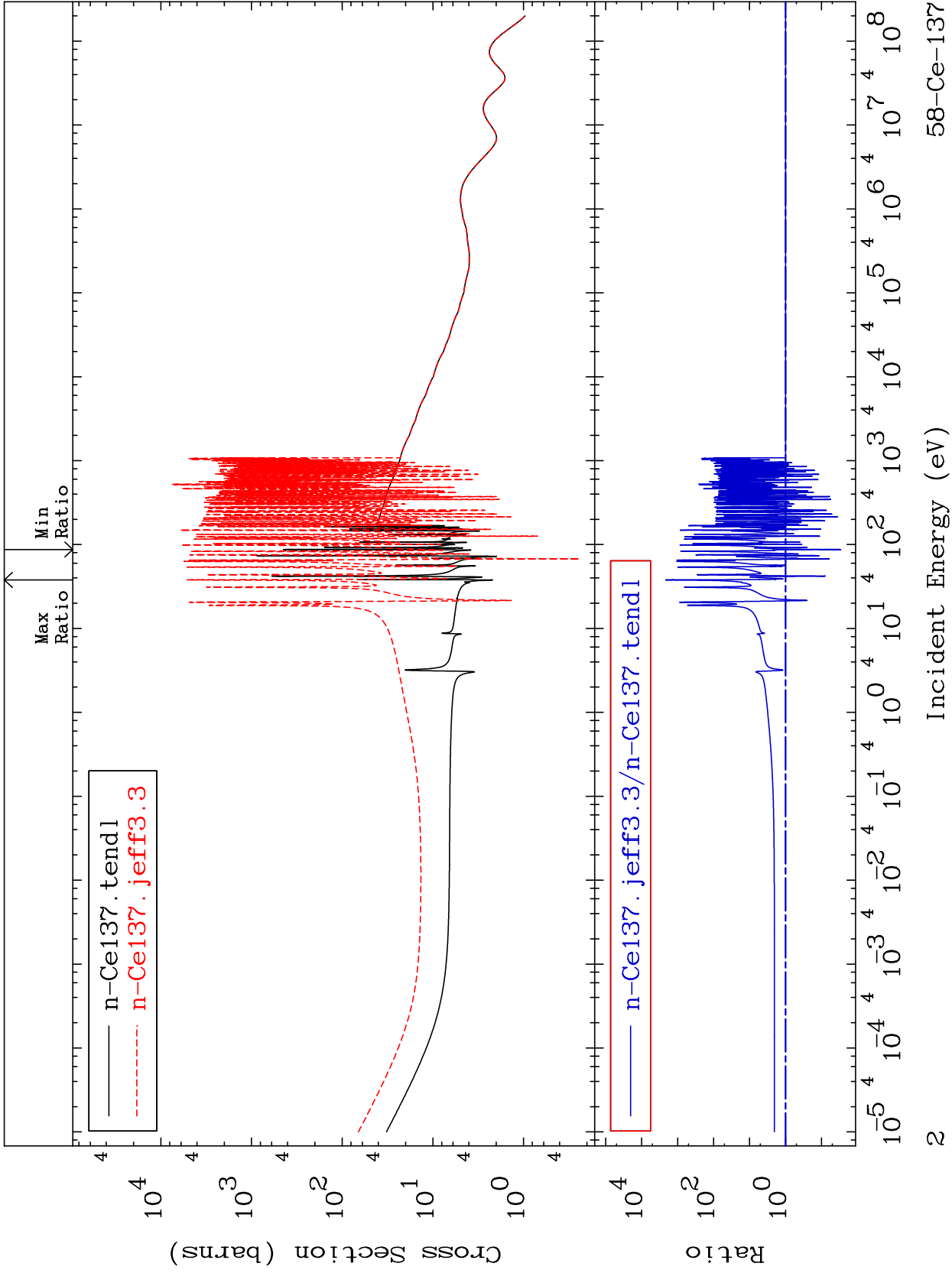


MAT 5828

Total Cross Section  
58-Ce-137  
-98.62 To 9999. %



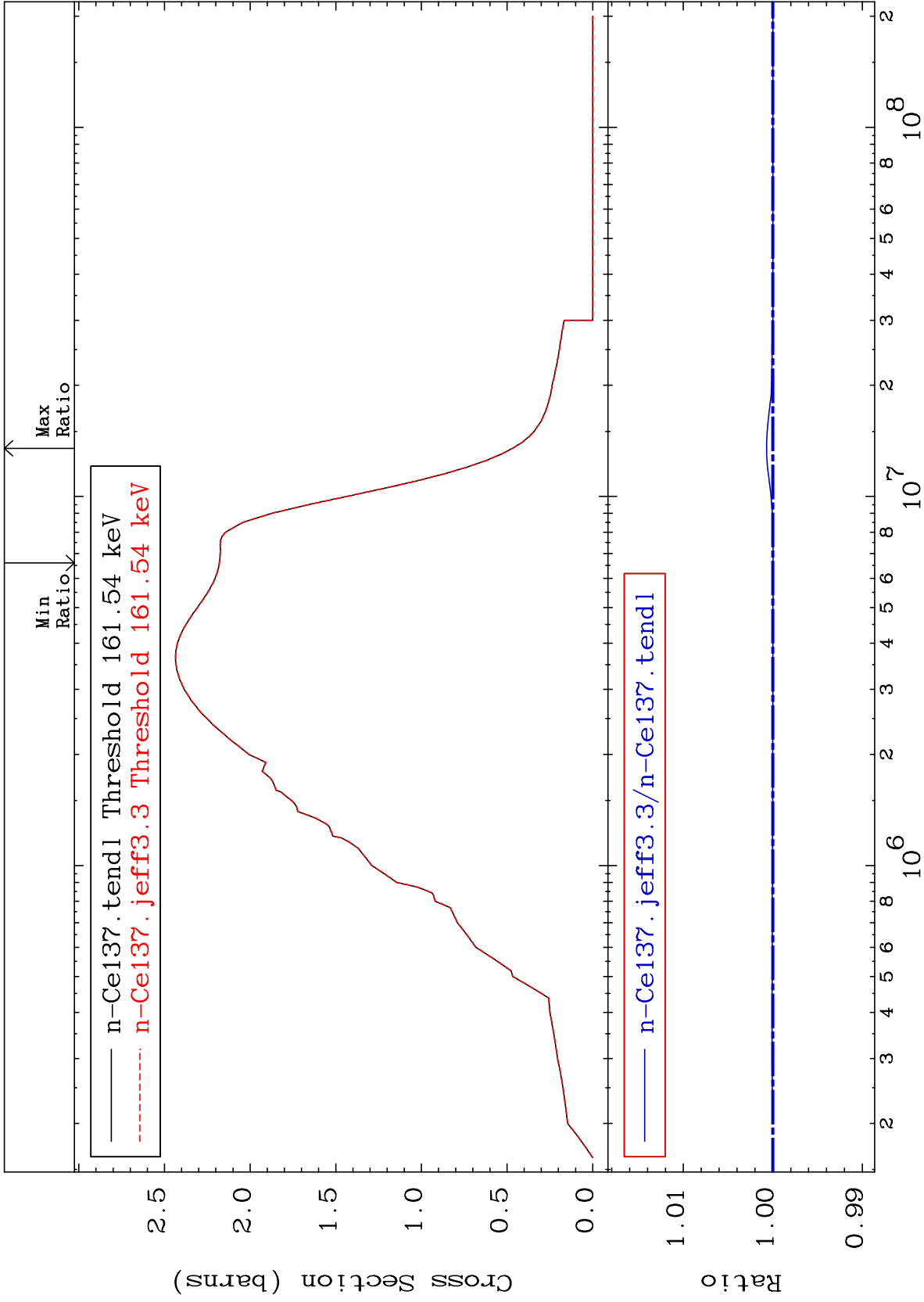
58-Ce-137



MAT 5828

Inelastic  
Cross Section

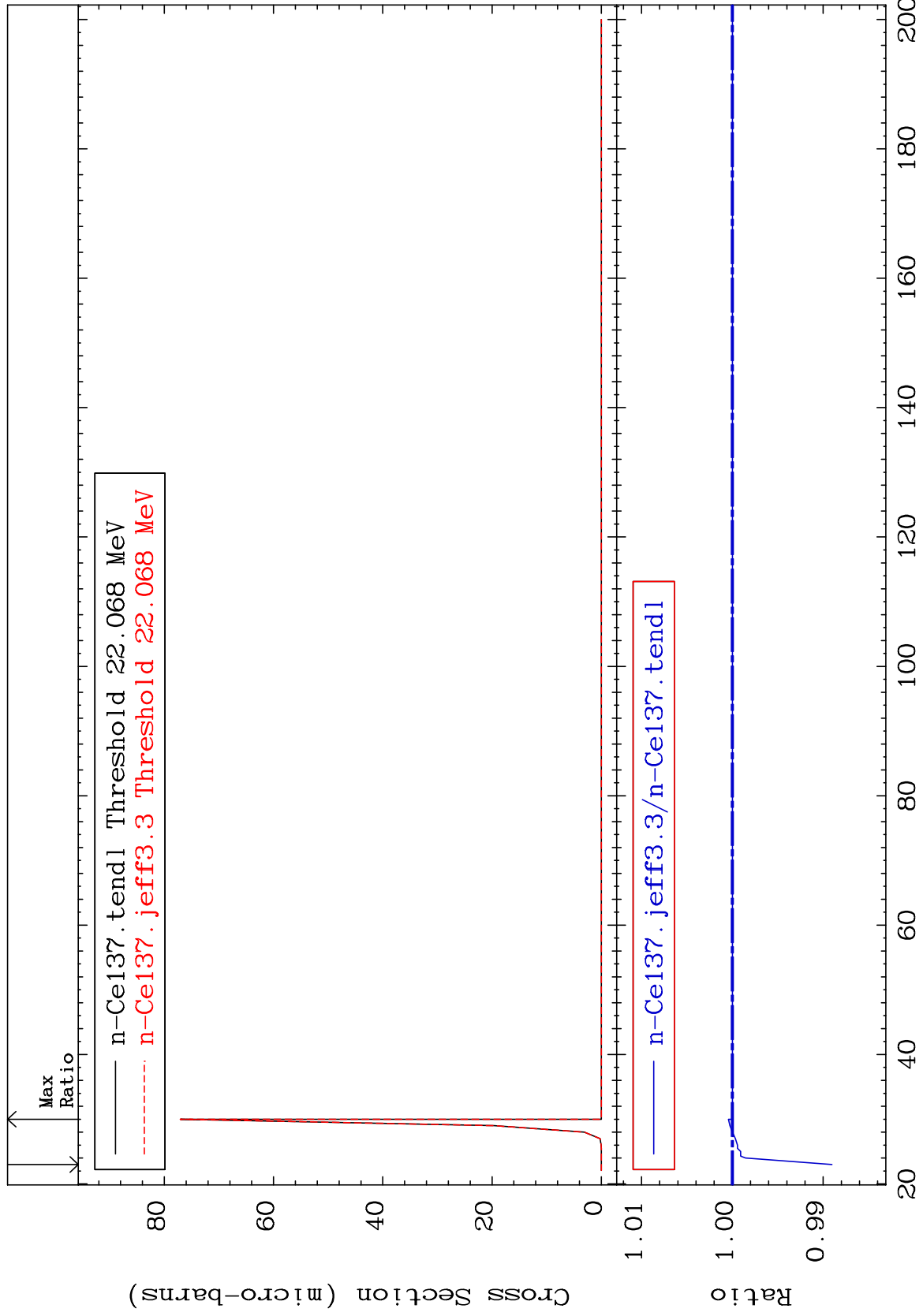
58-Ce-137  
-0.004 To 0.070 %



MAT 5828

(n,2n) d  
Cross Section

58-Ce-137  
-1.096 To 0.044 %



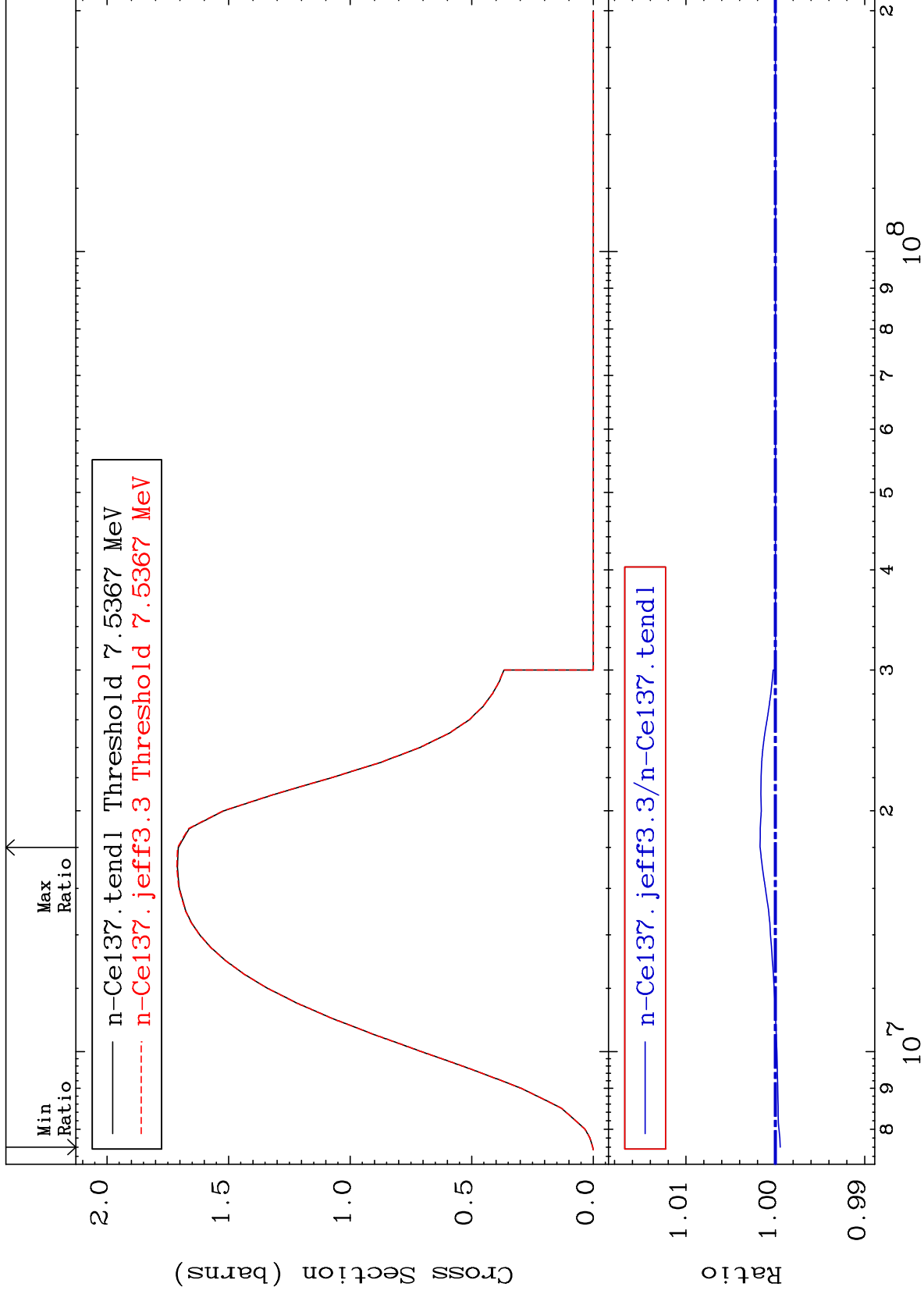
MAT 5828

(n,2n)

58-Ce-137

Cross Section

-0.054 To 0.171 %



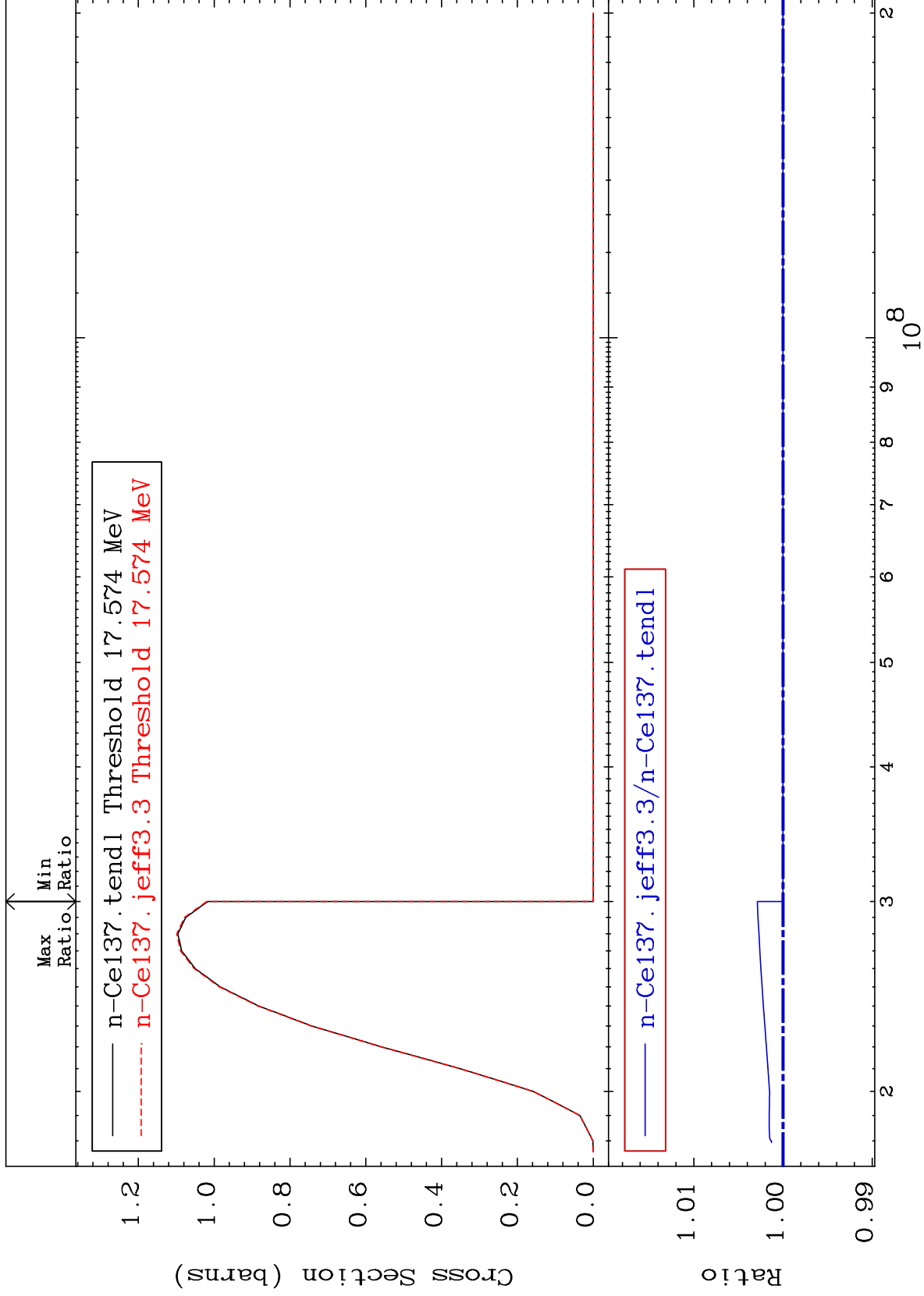
Incident Energy (eV)

58-Ce-137

5

MAT 5828

(n,3n) Cross Section 58-Ce-137  
0.000 To 0.288 %



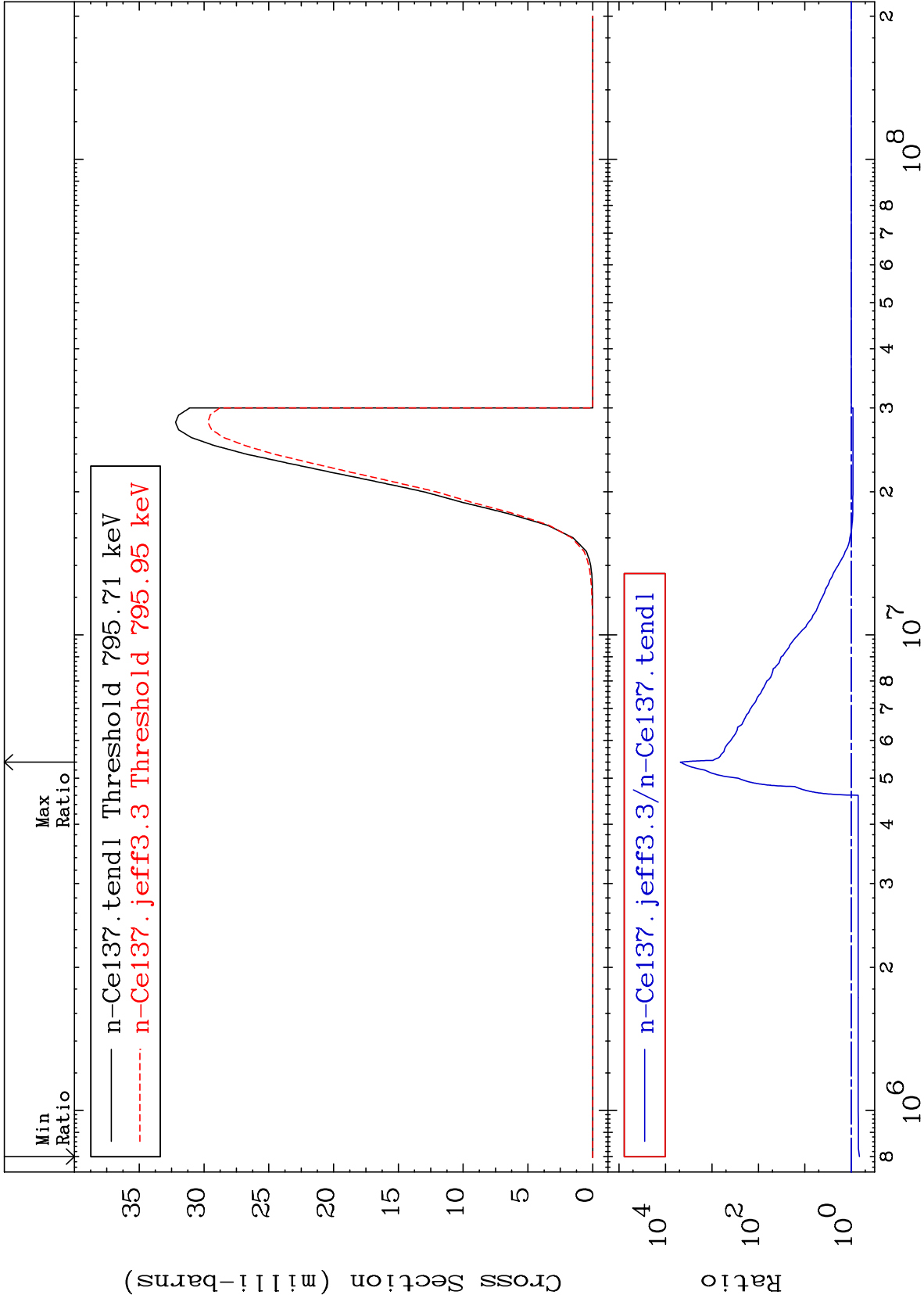
MAT 5828

(n,n')  $\alpha$

58-Ce-137

Cross Section

-33.06 To 9999. %



7

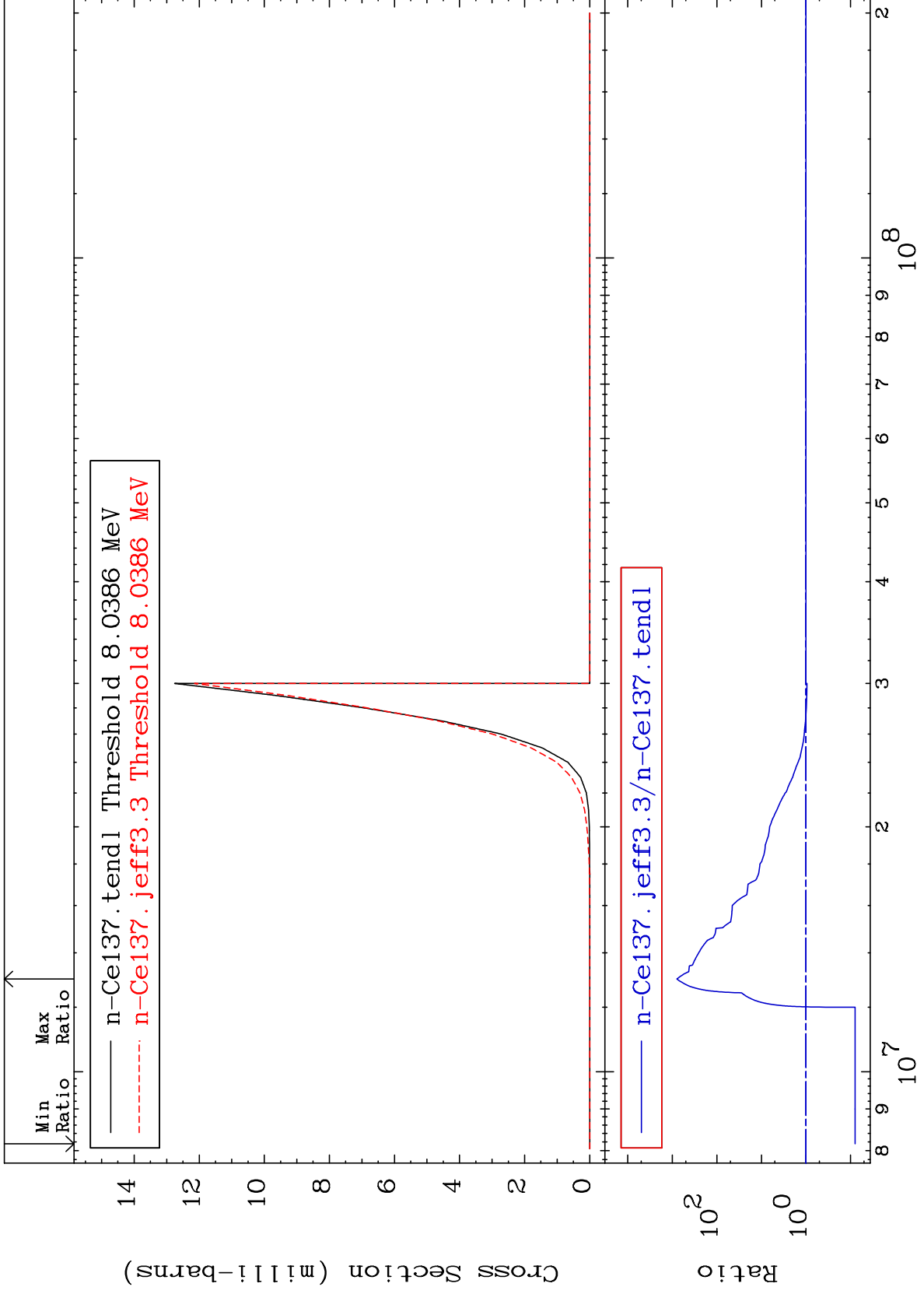
Incident Energy (eV)

58-Ce-137

MAT 5828

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

58-Ce-137  
-92.10 To 9999. %



8

Incident Energy (eV)

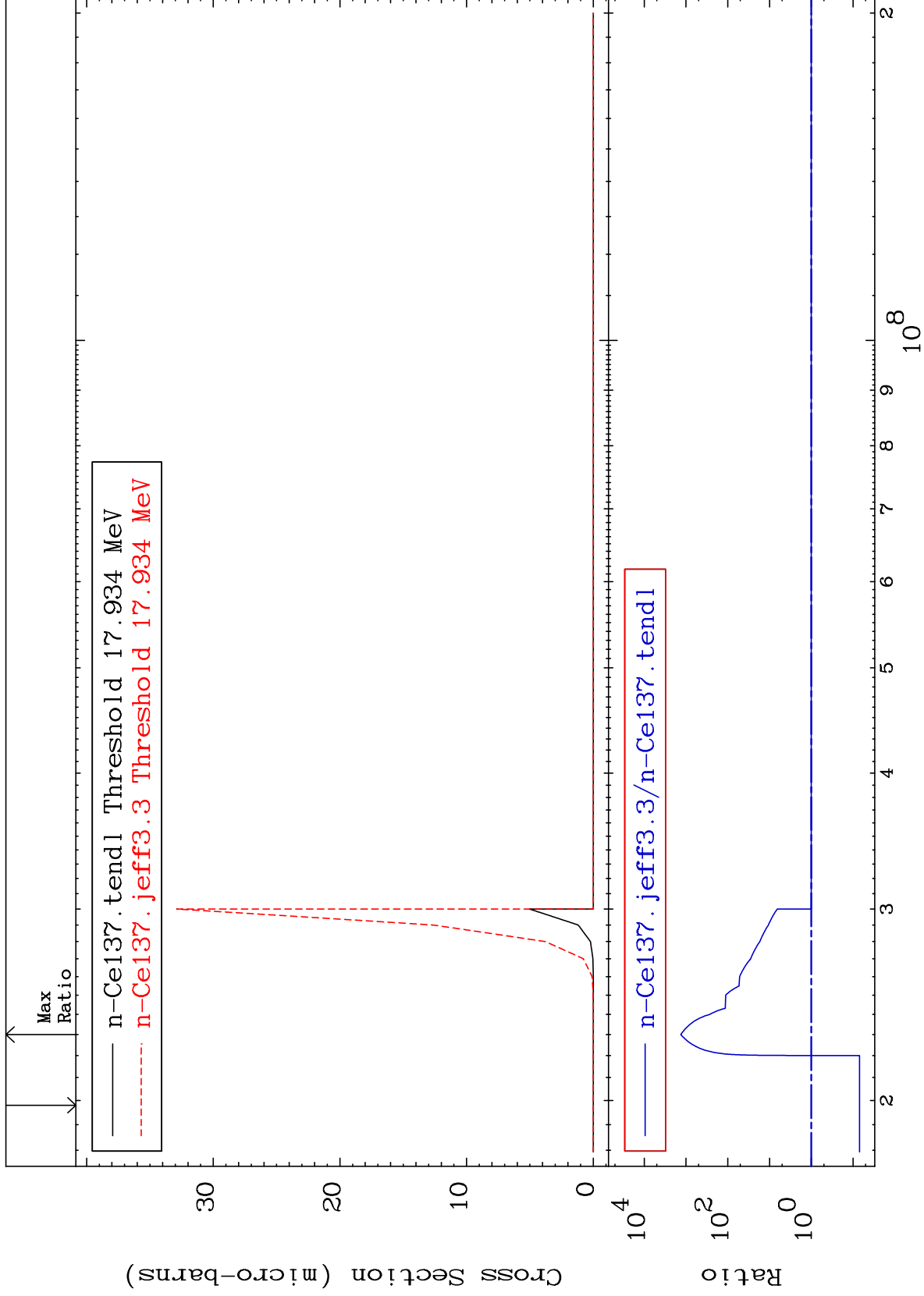
58-Ce-137



MAT 5828

(n,3n)  $\alpha$   
Cross Section

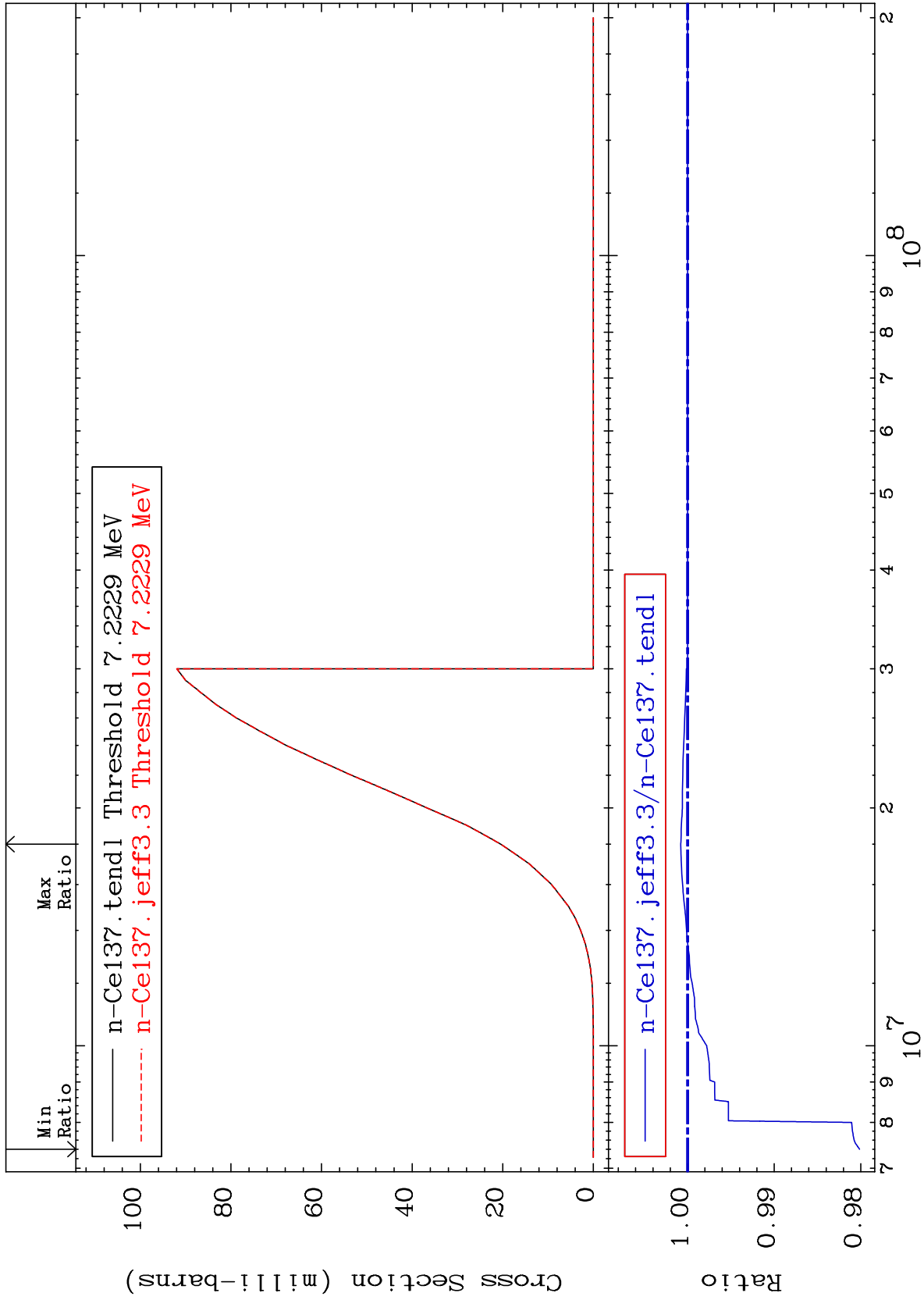
58-Ce-137  
-93.01 To 9999. %



MAT 5828

(n,n') p  
Cross Section

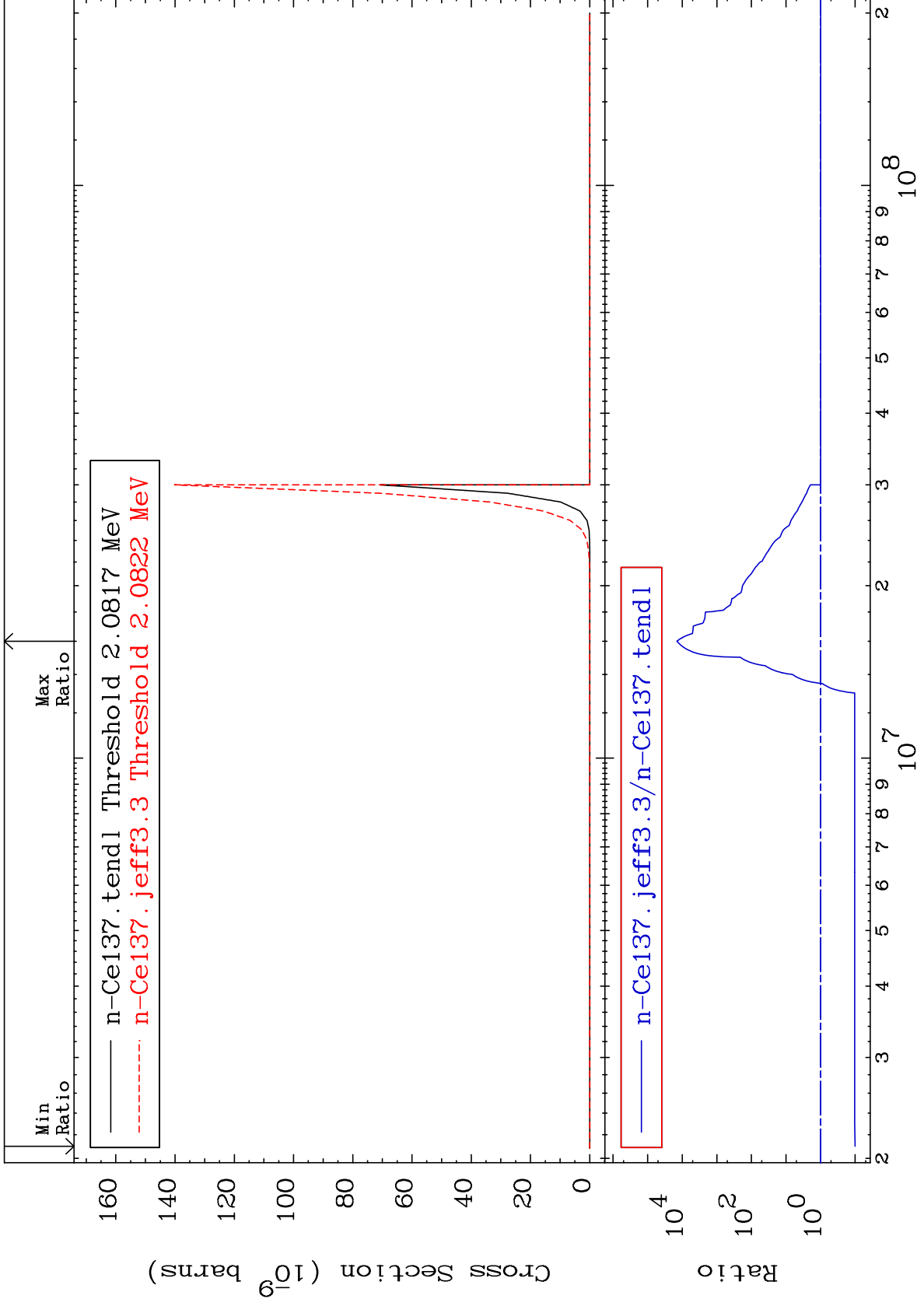
58-Ce-137  
-1.986 To 0.079 %



MAT 5828

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

58-Ce-137  
-89.94 To 9999. %



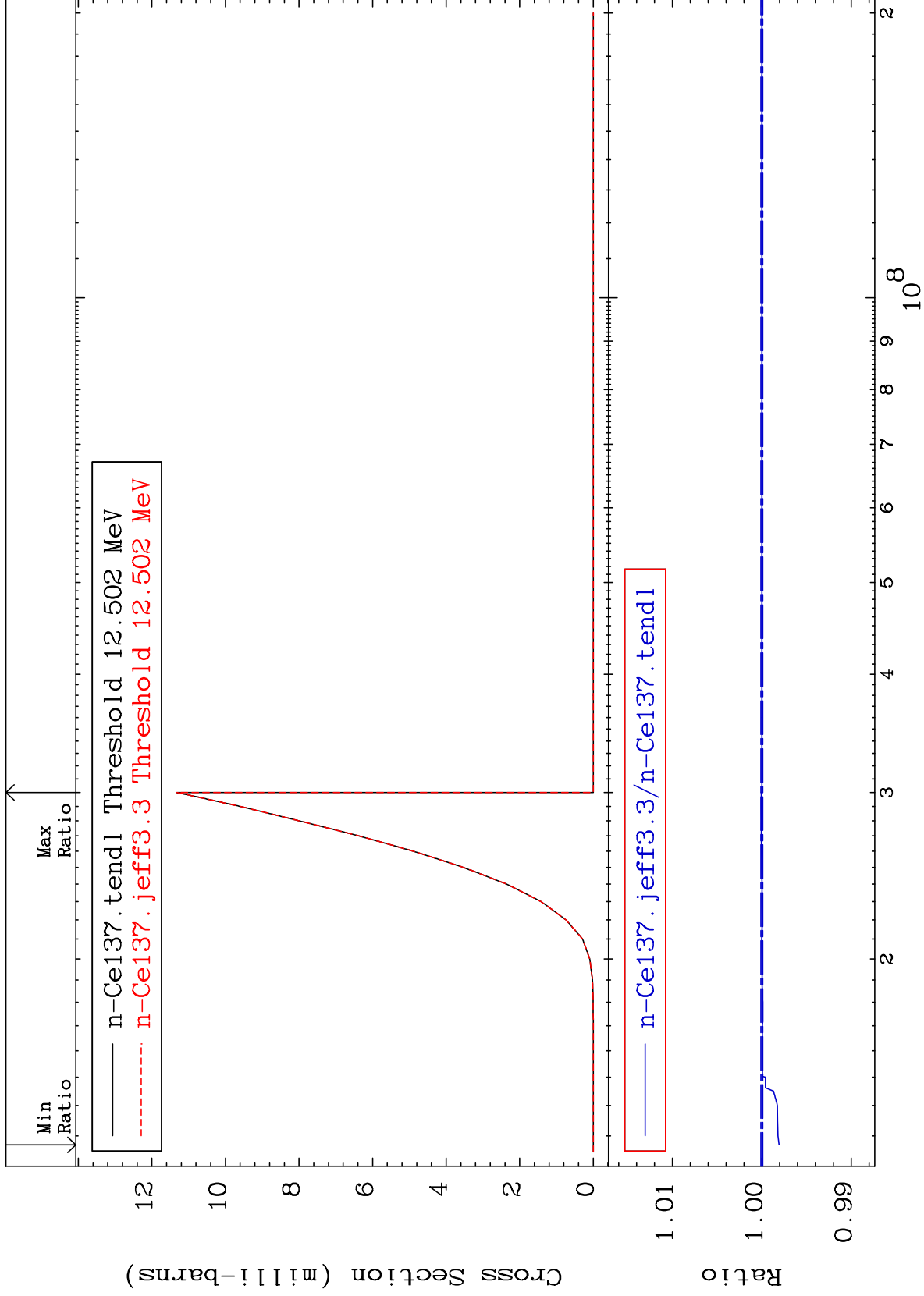
MAT 5828

(n,n') d

58-Ce-137

Cross Section

-0.193 To 0.006 %



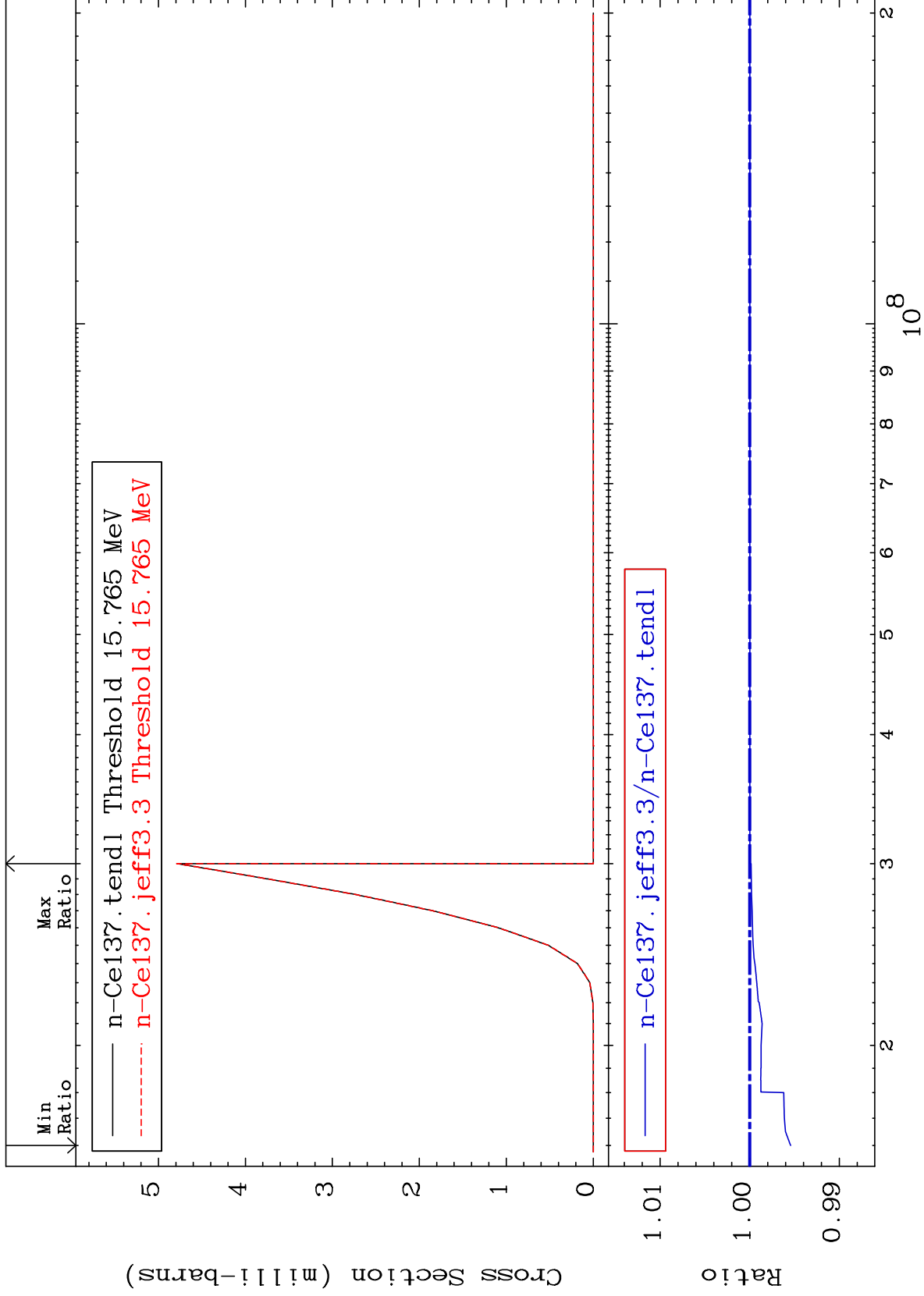
MAT 5828

(n,n') t

58-Ce-137

Cross Section

-0.456 To 0.000 %



13

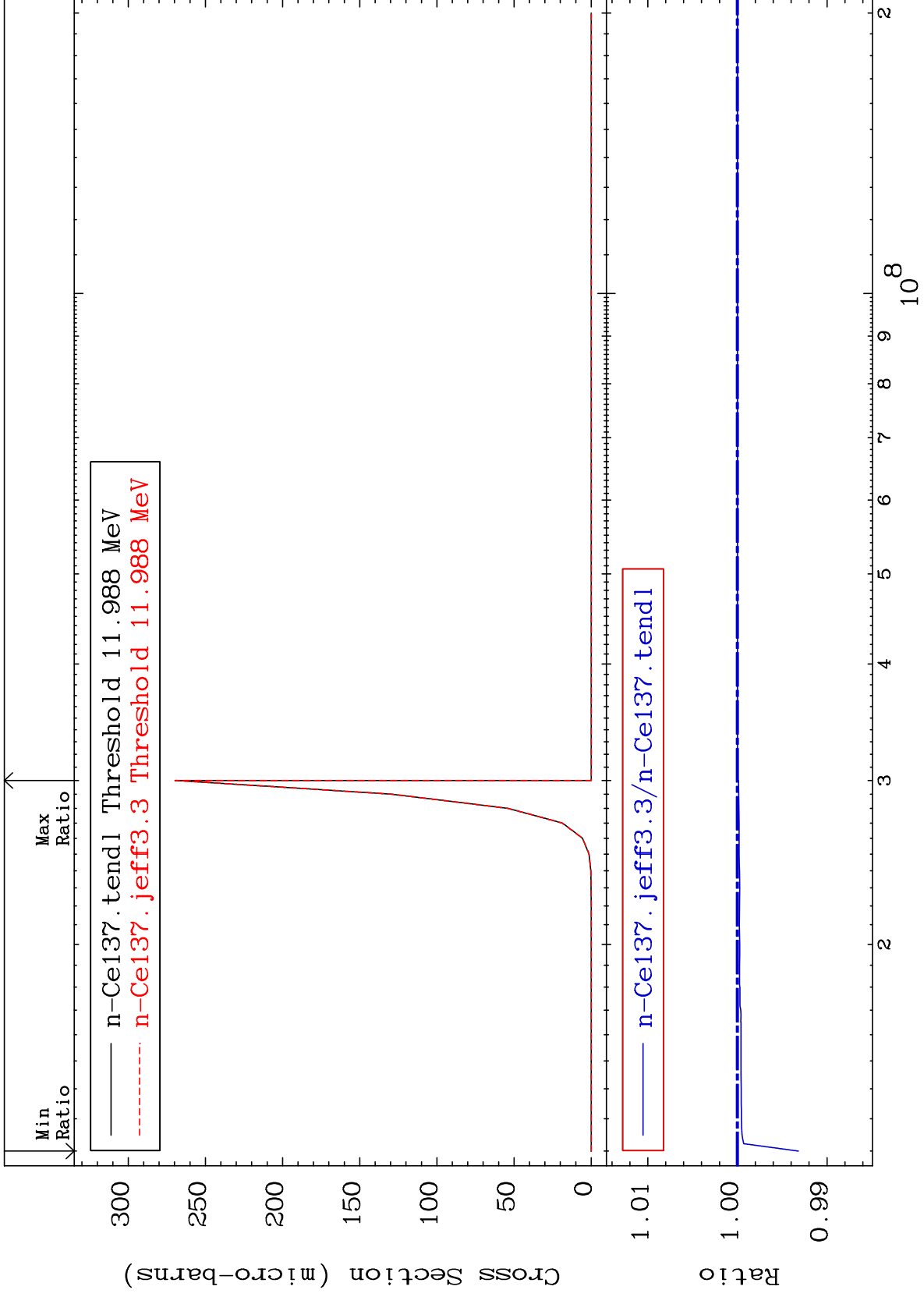
Incident Energy (eV)

58-Ce-137

MAT 5828

(n, n') He-3  
Cross Section

58-Ce-137  
-0.682 To 0.000 %



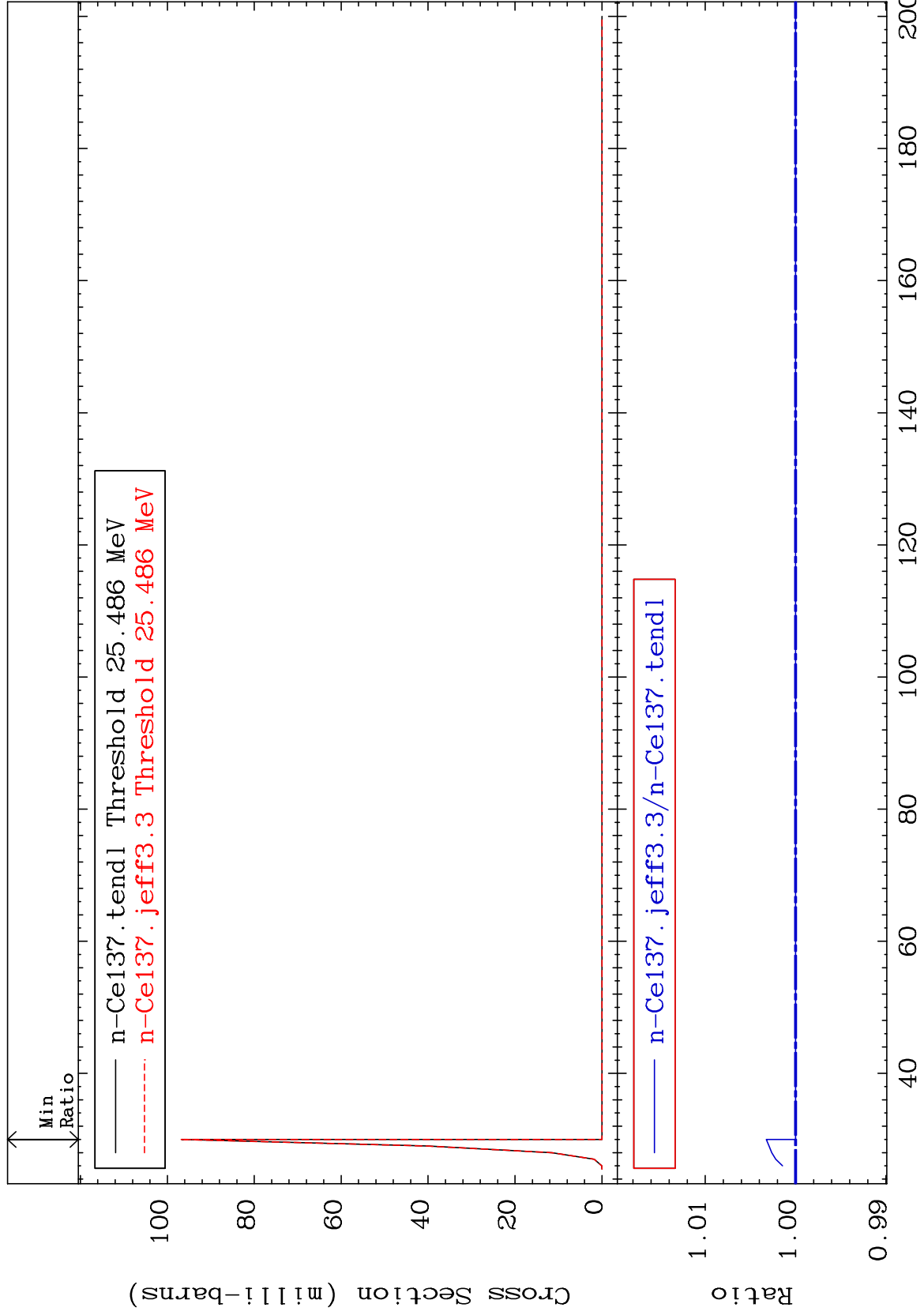
MAT 5828

(n,4n)

58-Ce-137

Cross Section

0.000 To 0.324 %



15

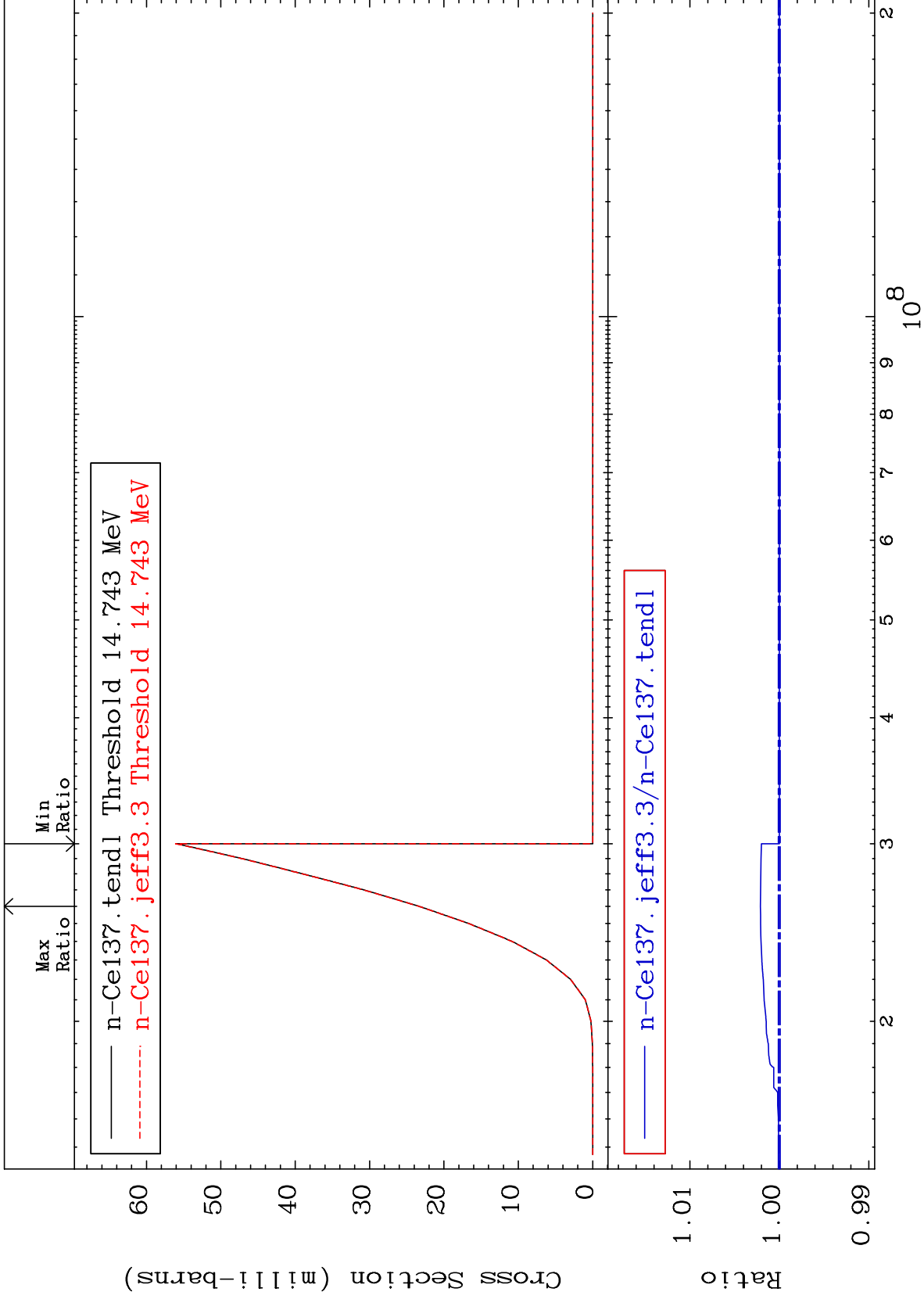
Incident Energy (MeV)

58-Ce-137

MAT 5828

(n,2n) p  
Cross Section

58-Ce-137  
To 0.210 %

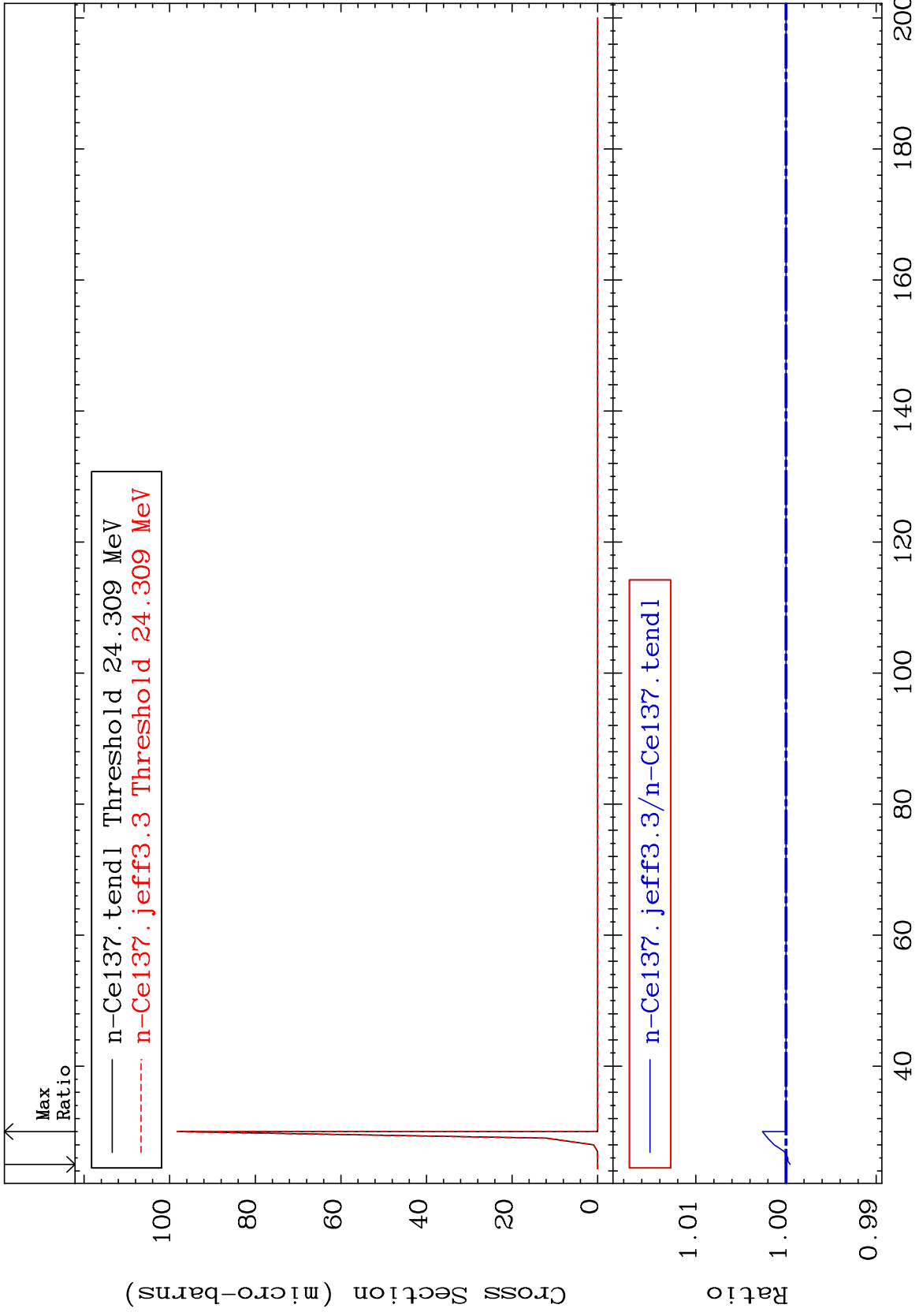




MAT 5828

(n,3n) p  
Cross Section

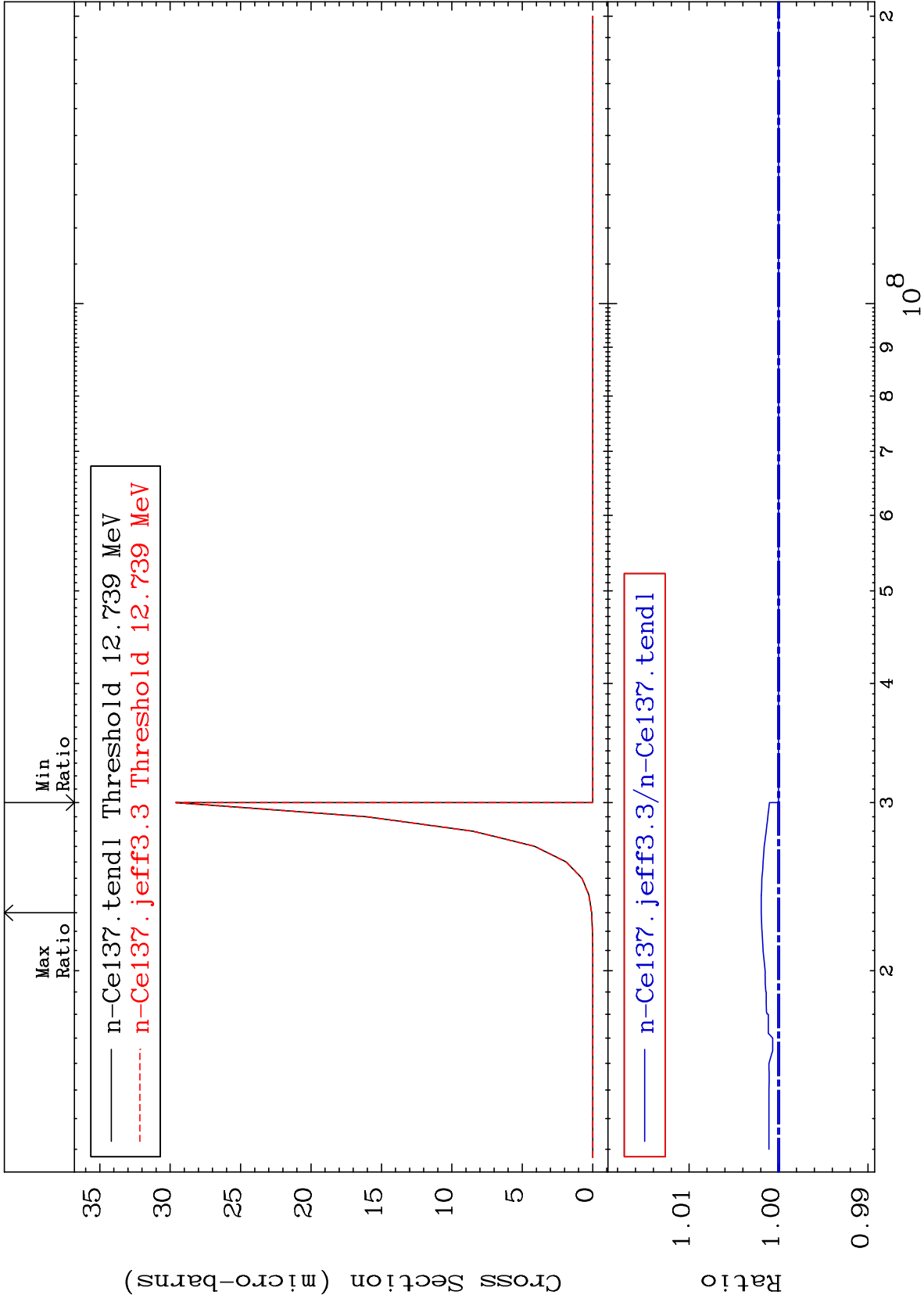
58-Ce-137  
-0.045 To 0.262 %



MAT 5828

(n,2n) p  
Cross Section

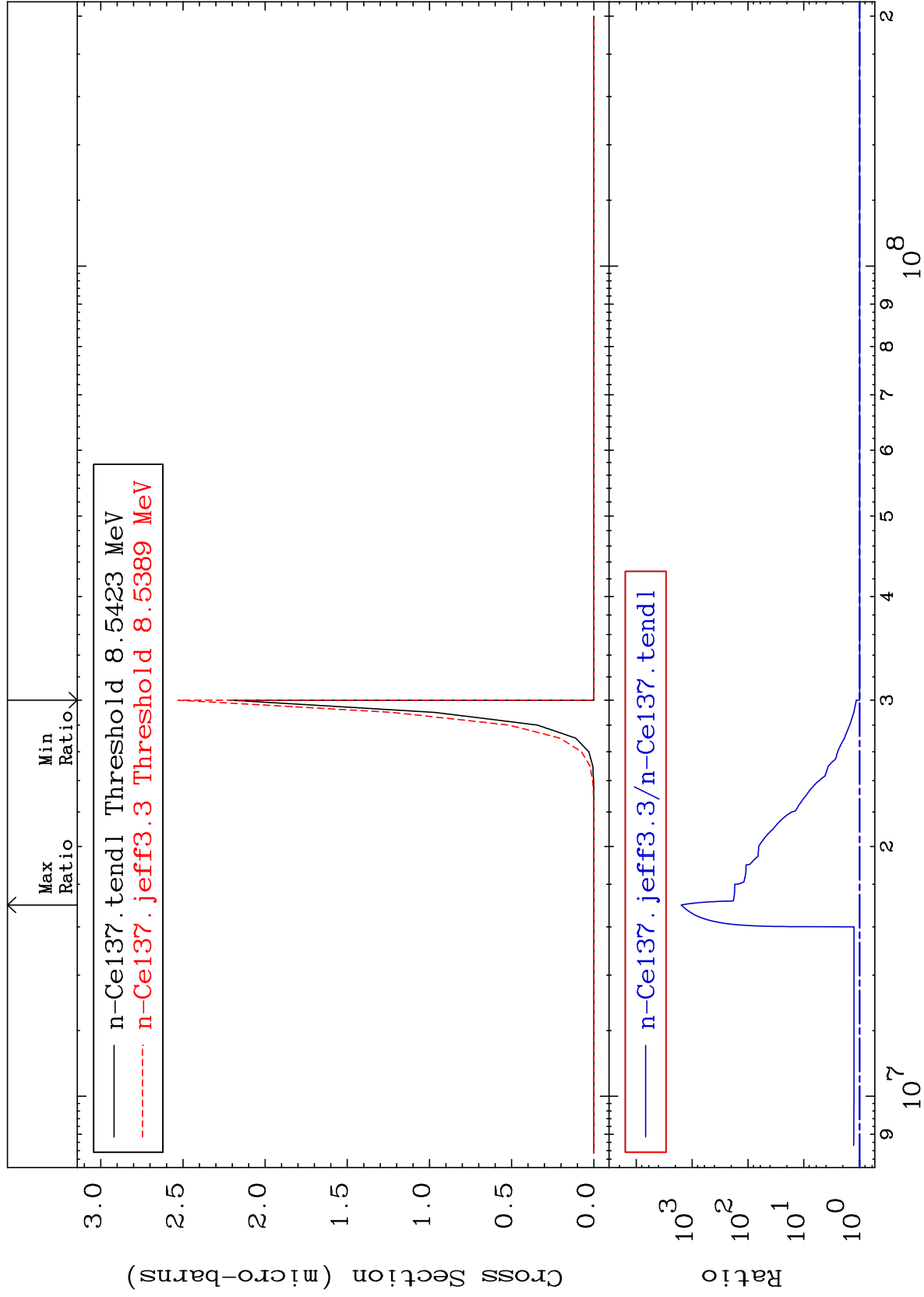
58-Ce-137  
To 0.195 %



MAT 5828

(n,n') p α  
Cross Section

58-Ce-137  
To 9999. %  
0.000



19

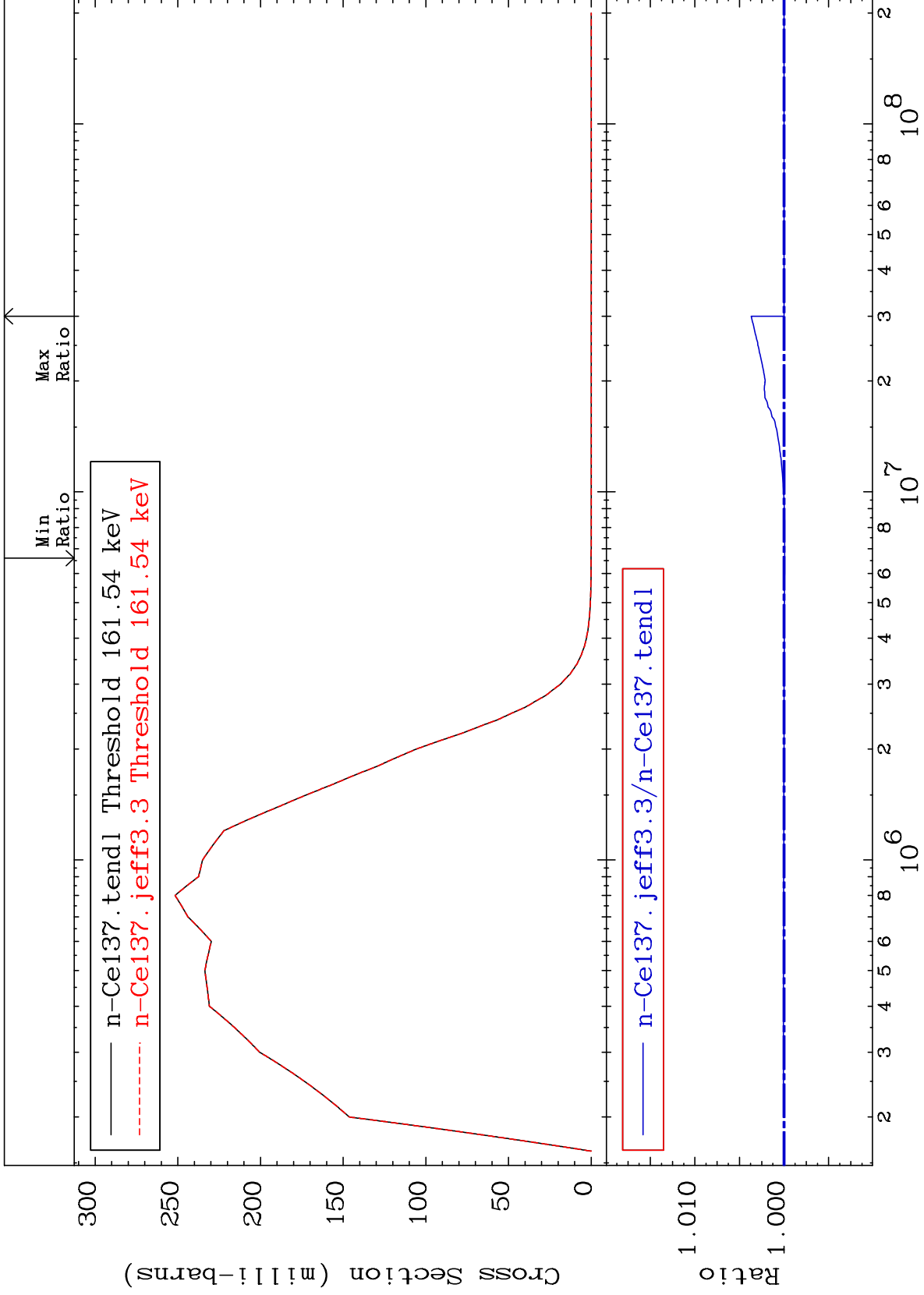
Incident Energy (eV)

58-Ce-137

MAT 5828

MT= 51 (n,n') Level  
Cross Section

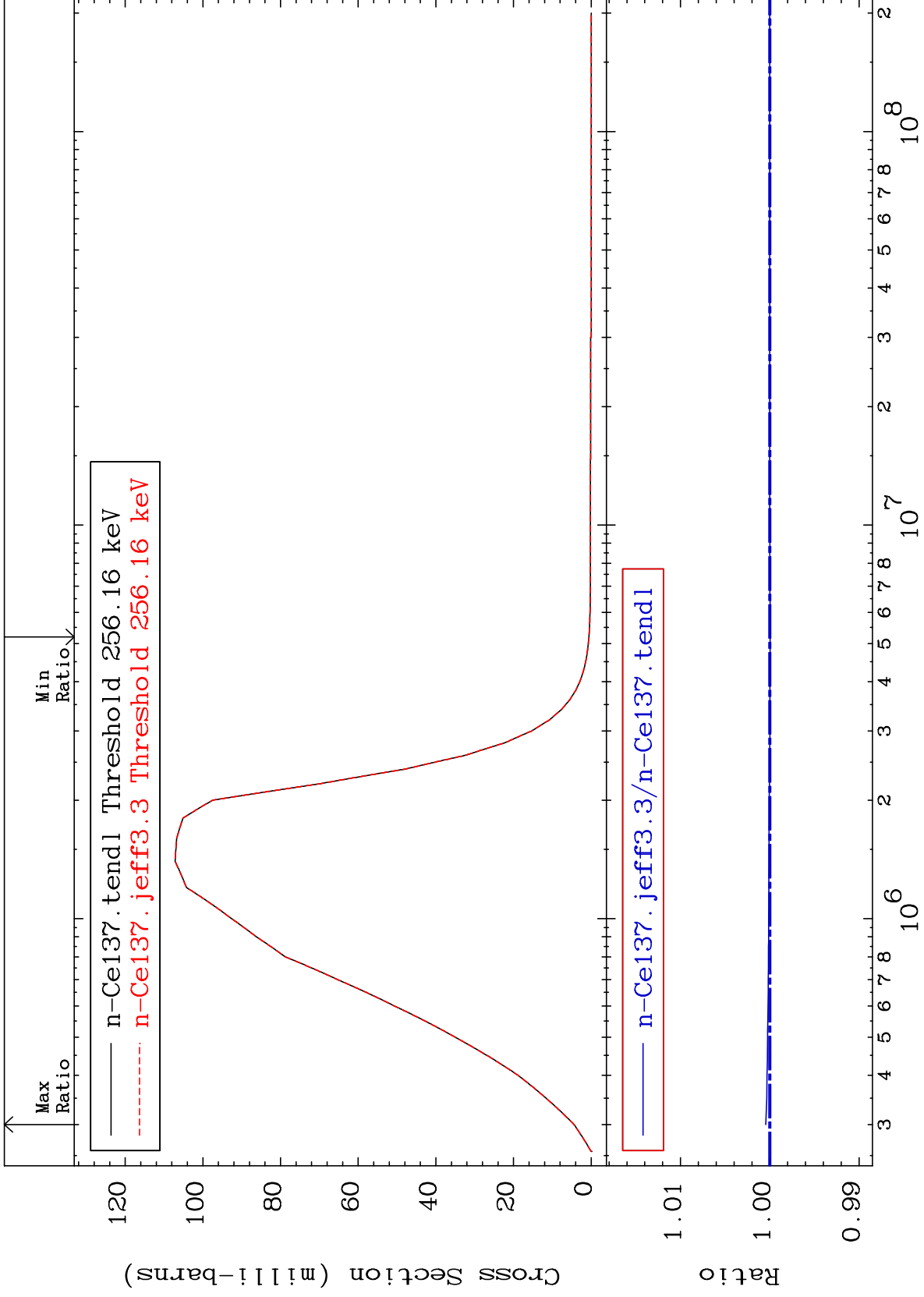
58-Ce-137  
-0.007 To 0.368 %



MAT 5828

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

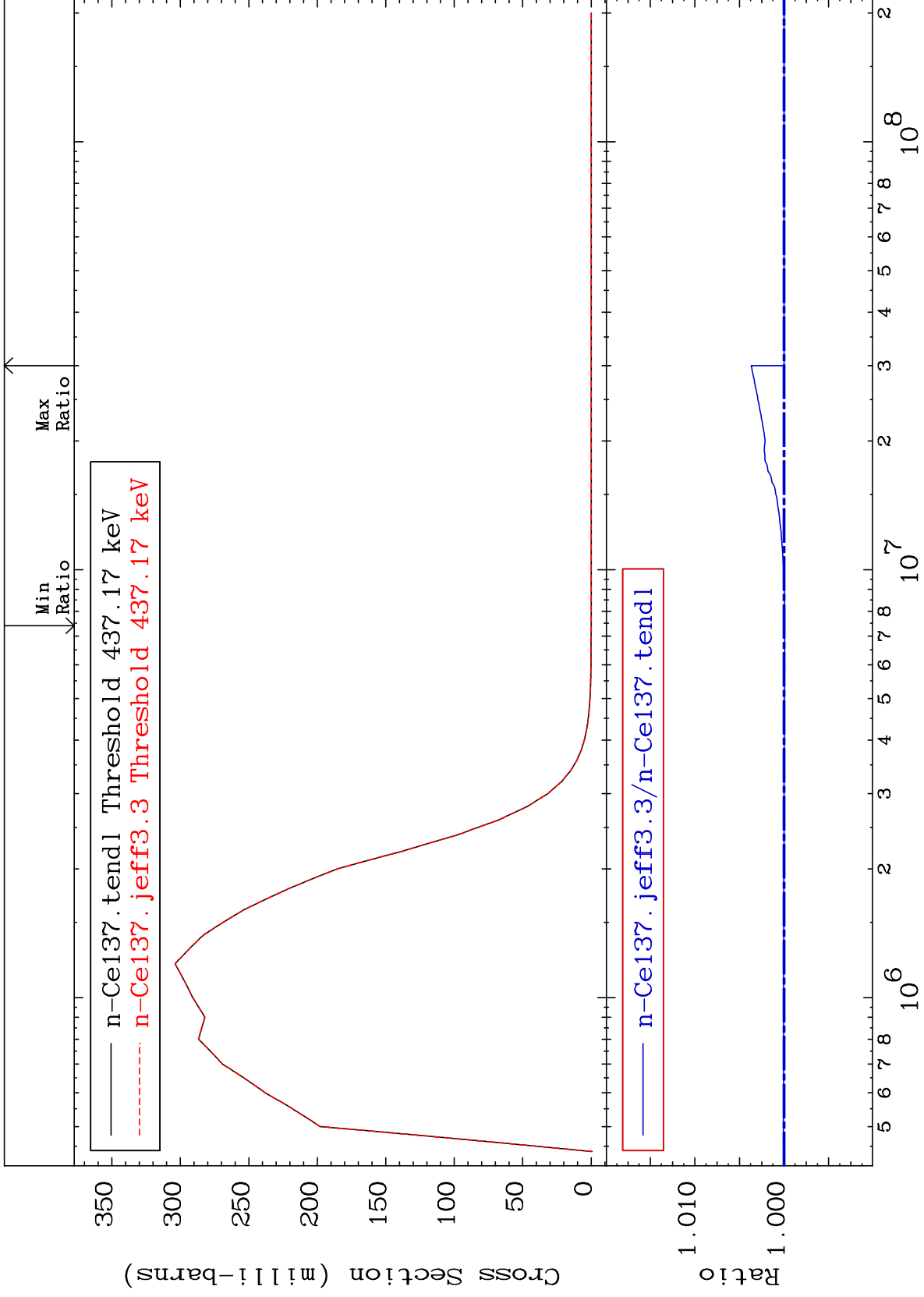
58-Ce-137  
-0.003 To 0.044 %



MAT 5828

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

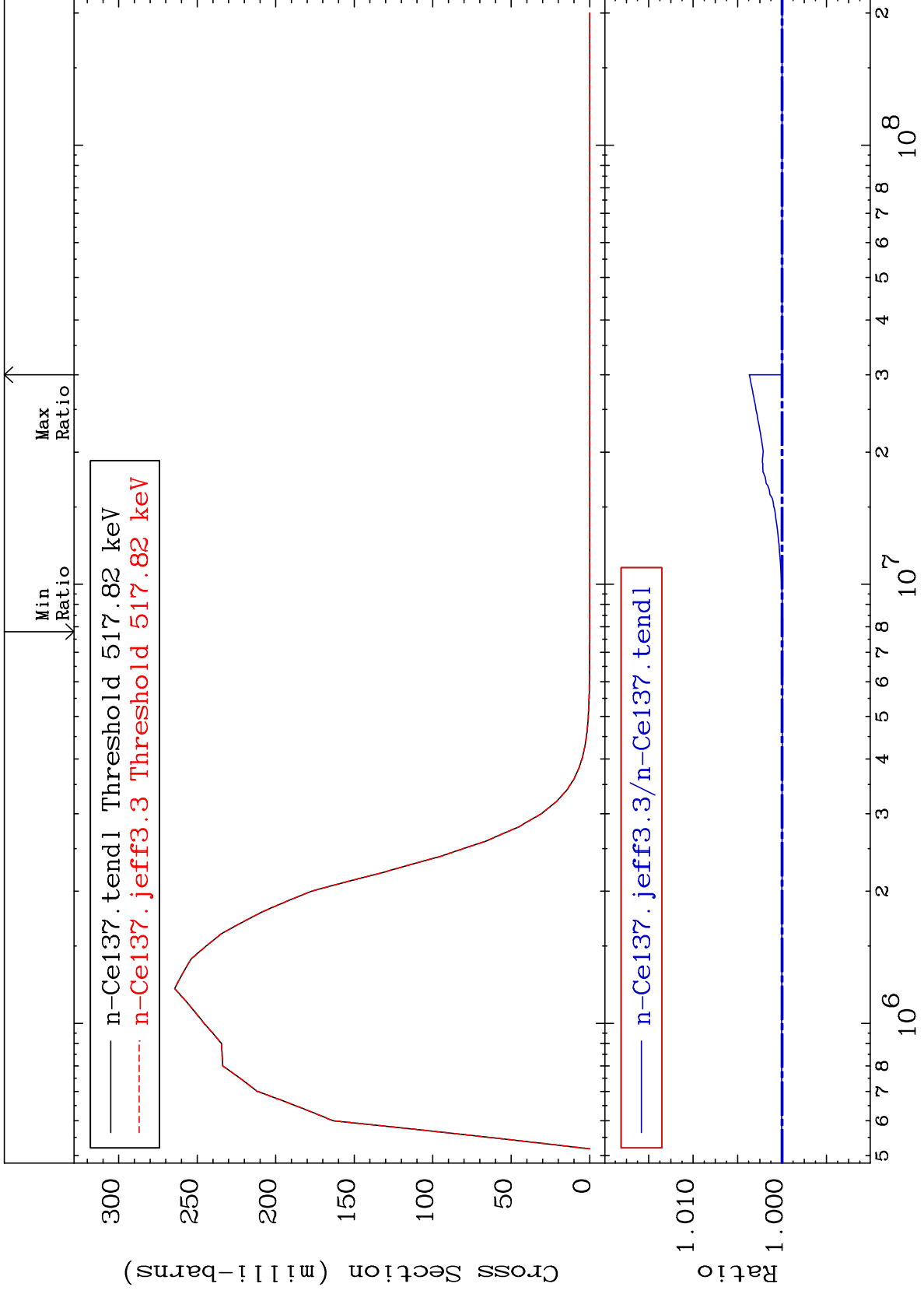
58-Ce-137  
-0.008 To 0.368 %



MAT 5828

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

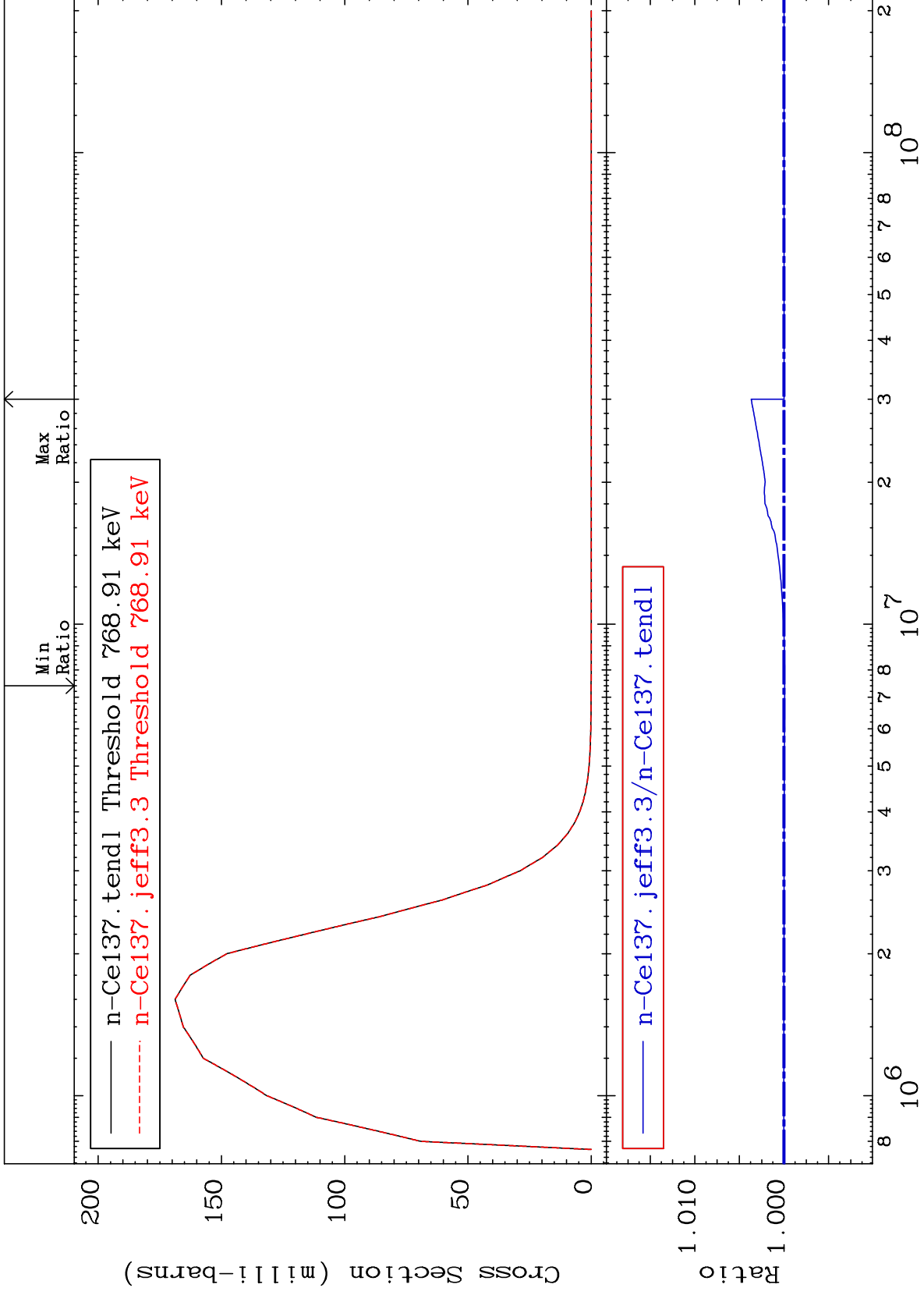
58-Ce-137  
-0.008 To 0.368 %



MAT 5828

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

58-Ce-137  
-0.008 To 0.368 %

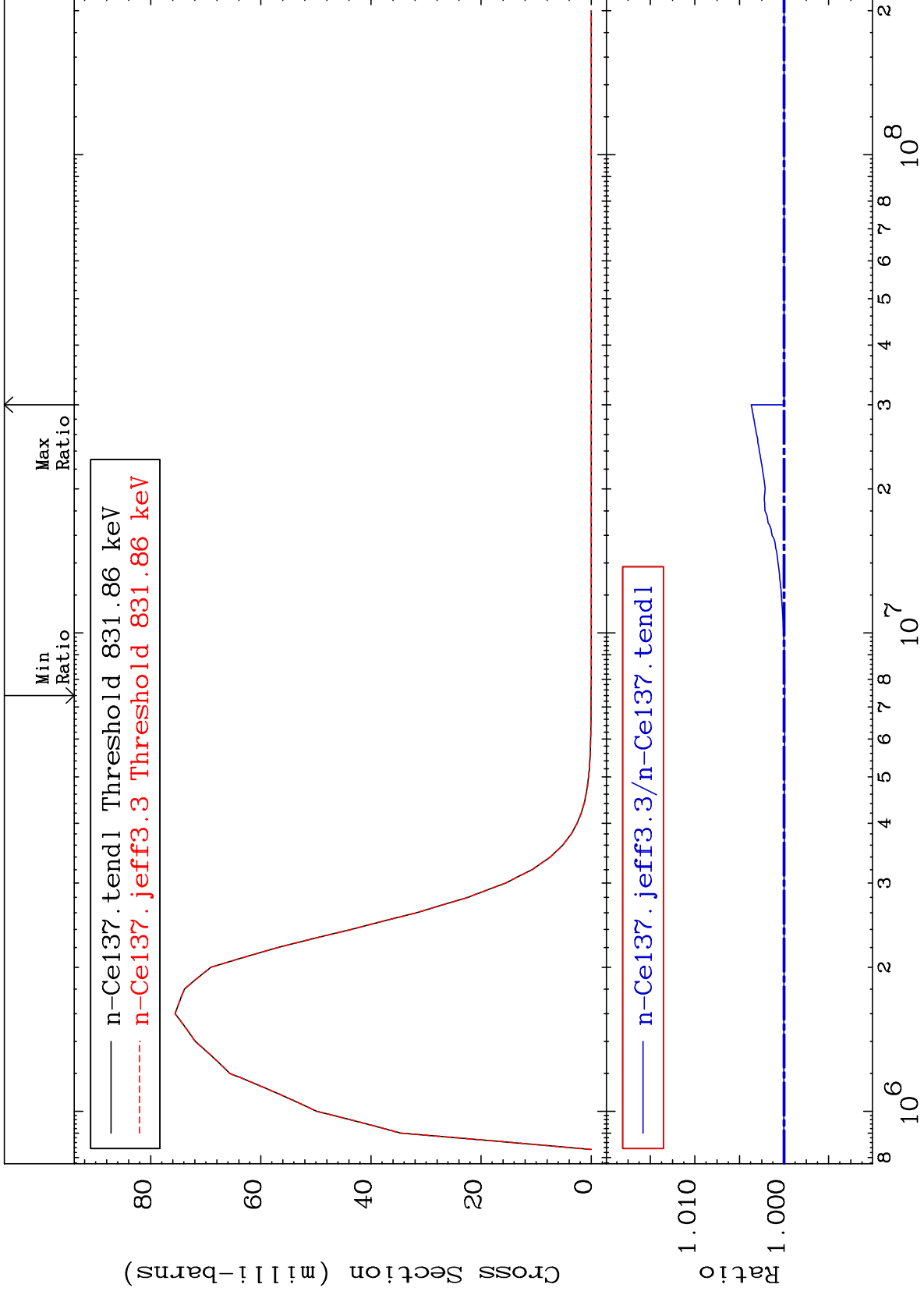




MAT 5828

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

58-Ce-137  
-0.008 To 0.368 %



25

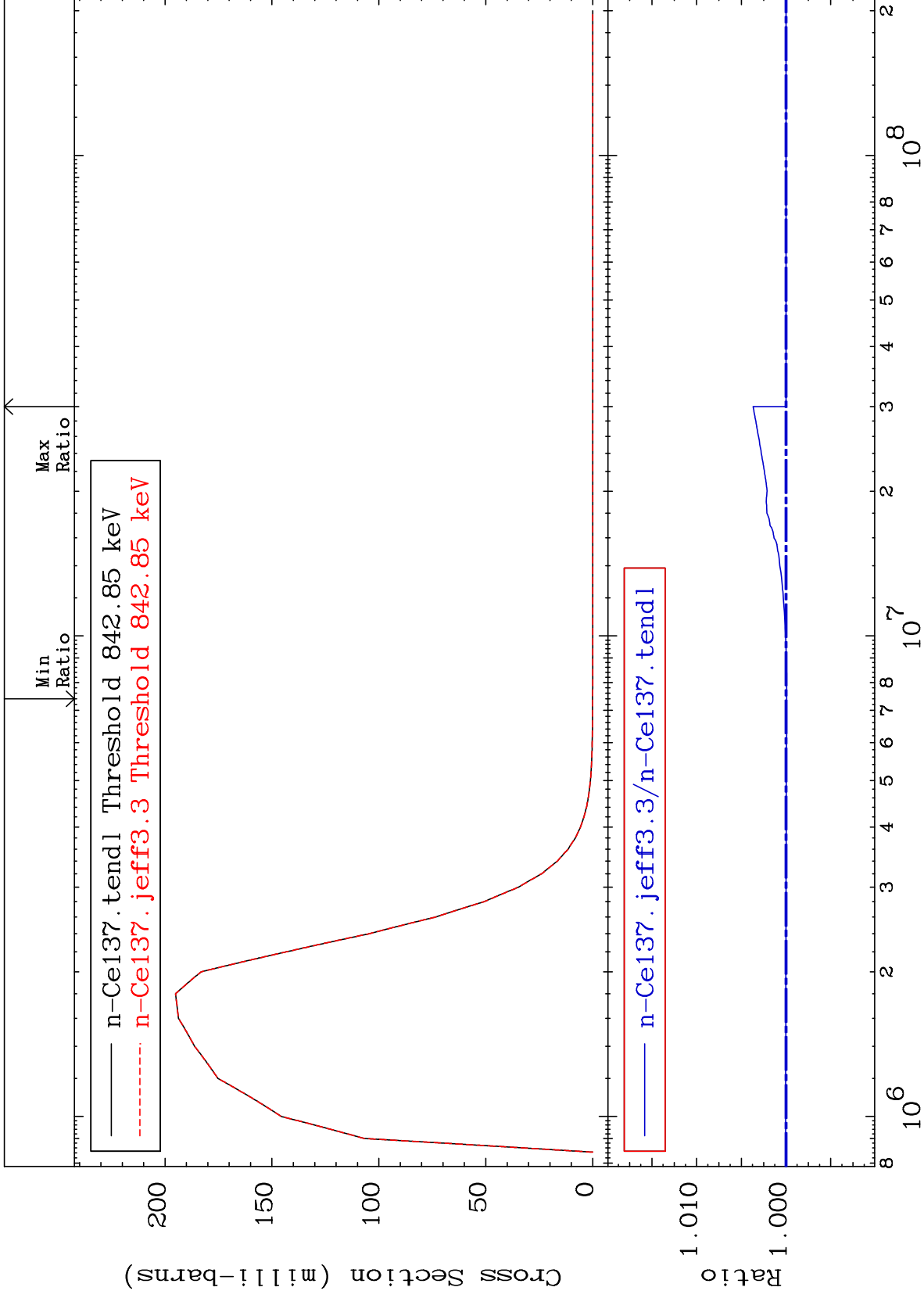
Incident Energy (eV)

58-Ce-137

MAT 5828

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

58-Ce-137  
-0.008 To 0.368 %



26

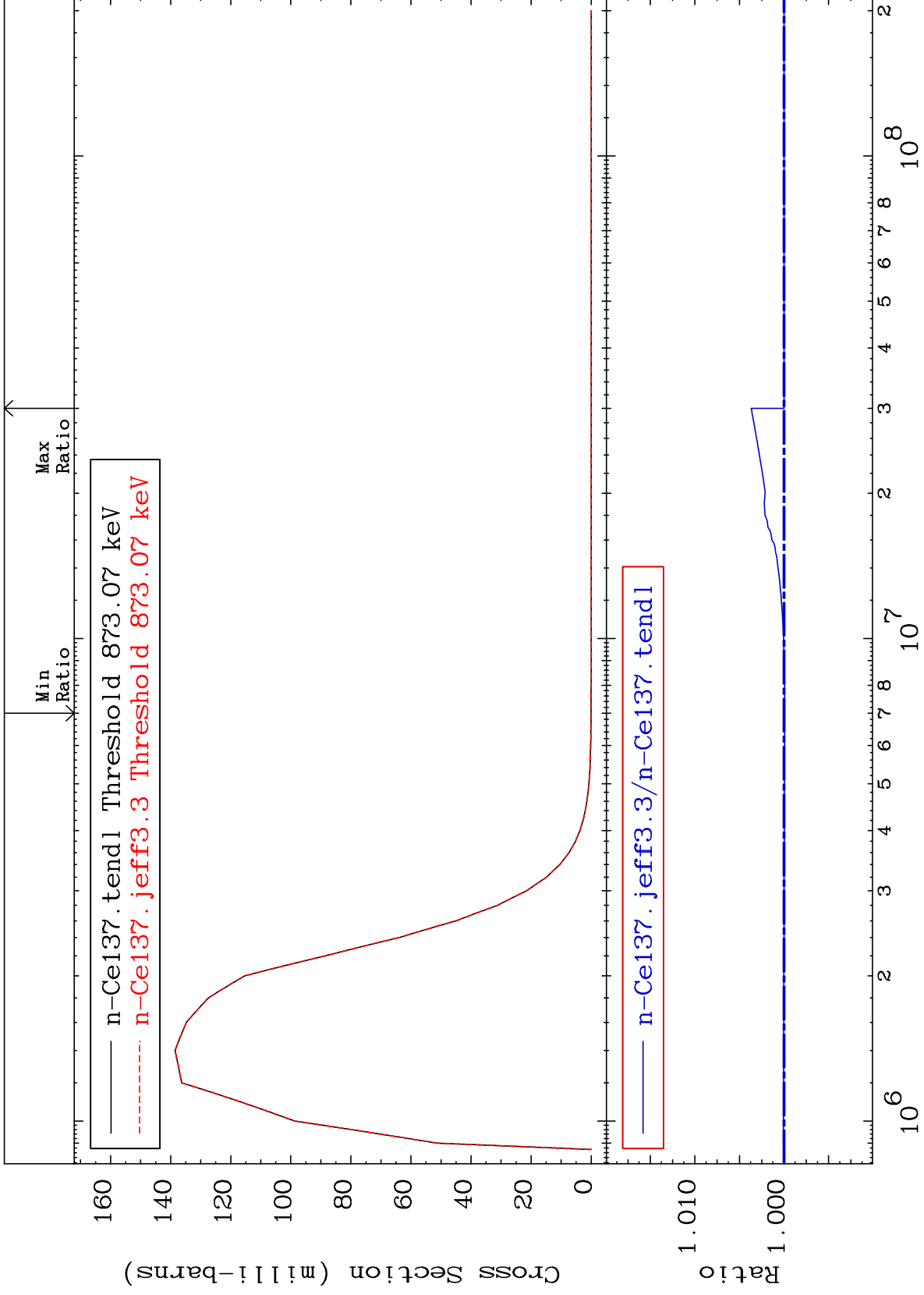
Incident Energy (eV)

58-Ce-137

MAT 5828

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

58-Ce-137  
-0.008 To 0.368 %



27

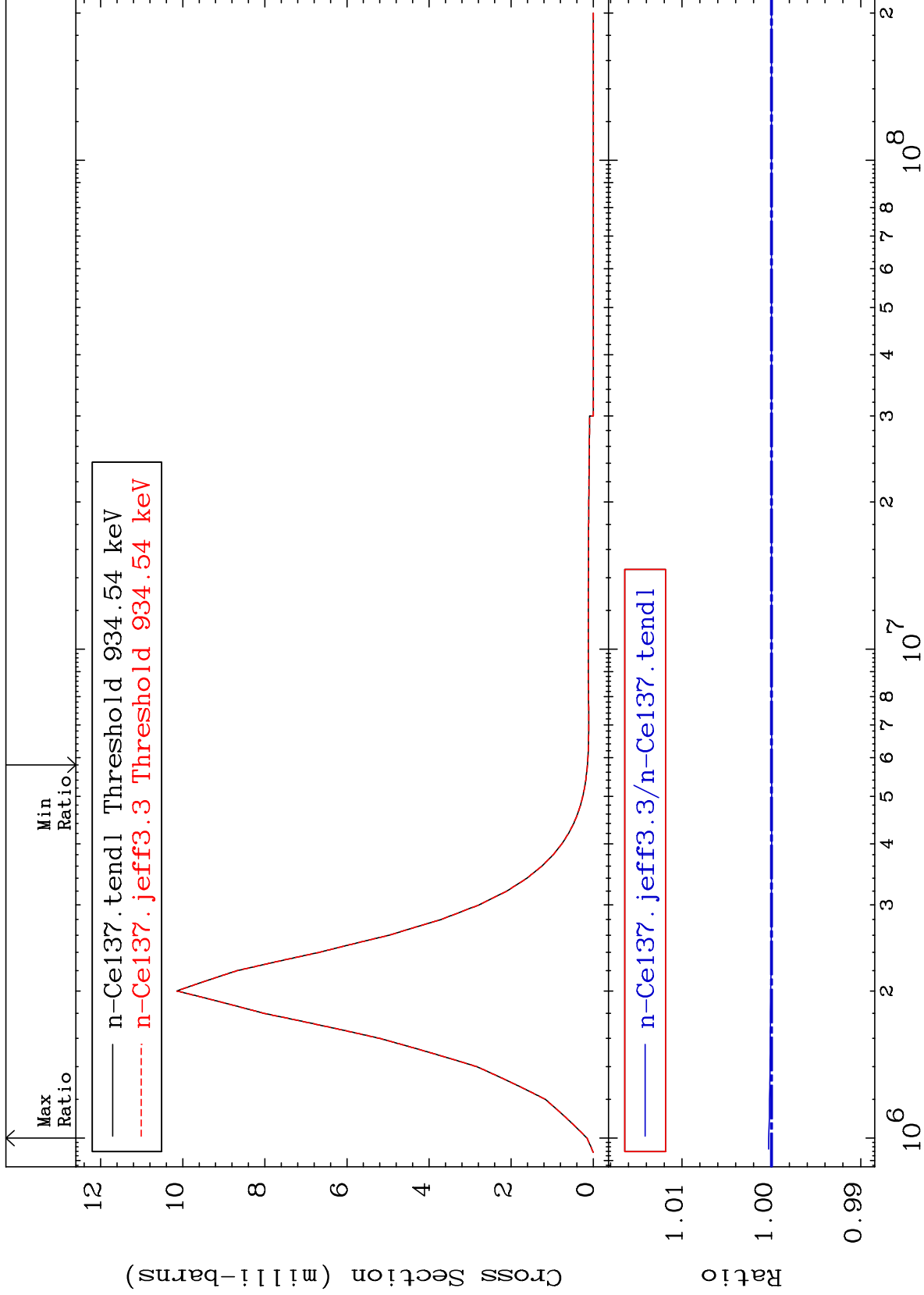
Incident Energy (eV)

58-Ce-137

MAT 5828

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

58-Ce-137  
-0.004 To 0.032 %



28

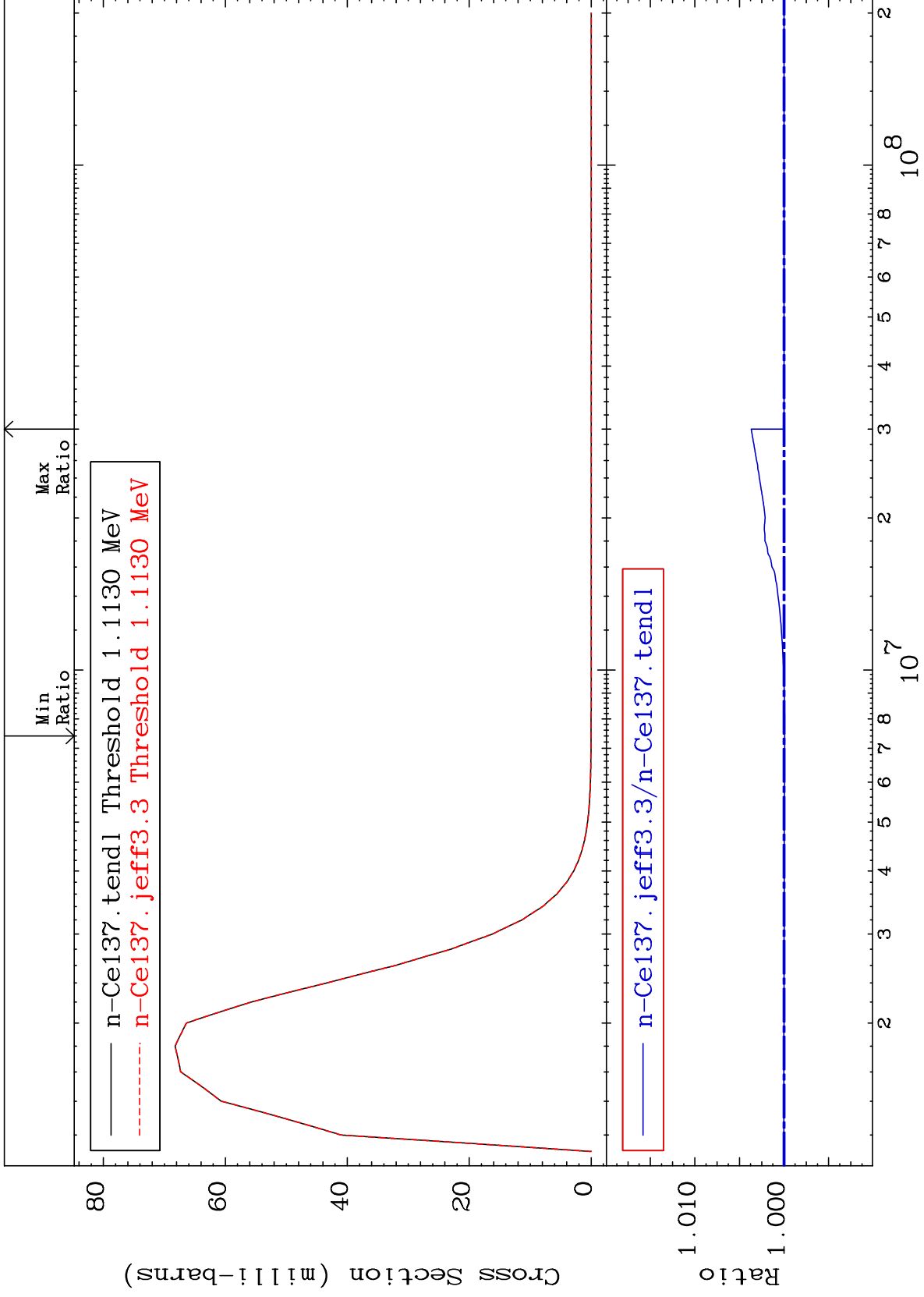
Incident Energy (eV)

58-Ce-137

MAT 5828

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

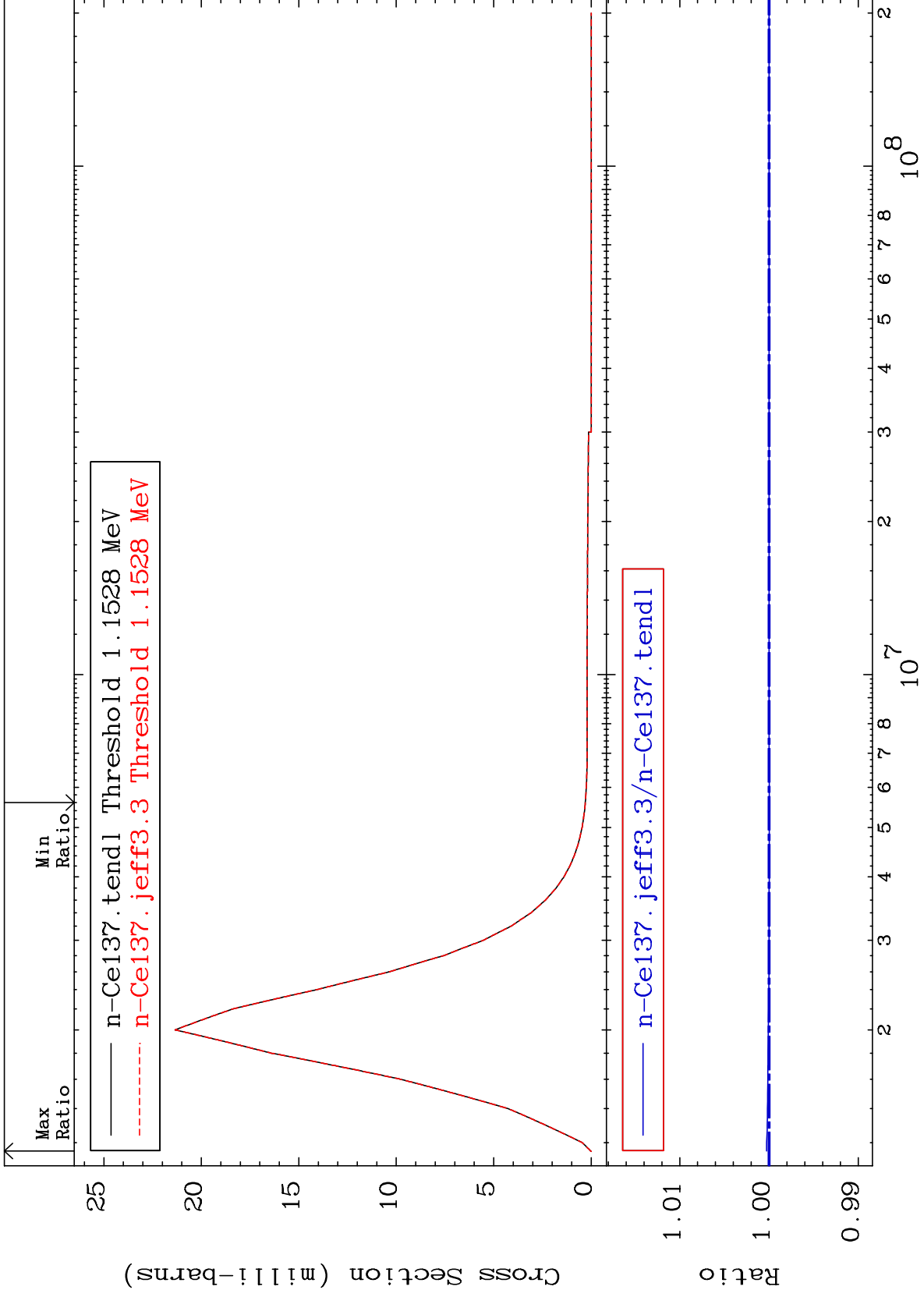
58-Ce-137  
-0.008 To 0.368 %



MAT 5828

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

58-Ce-137  
-0.003 To 0.028 %



30

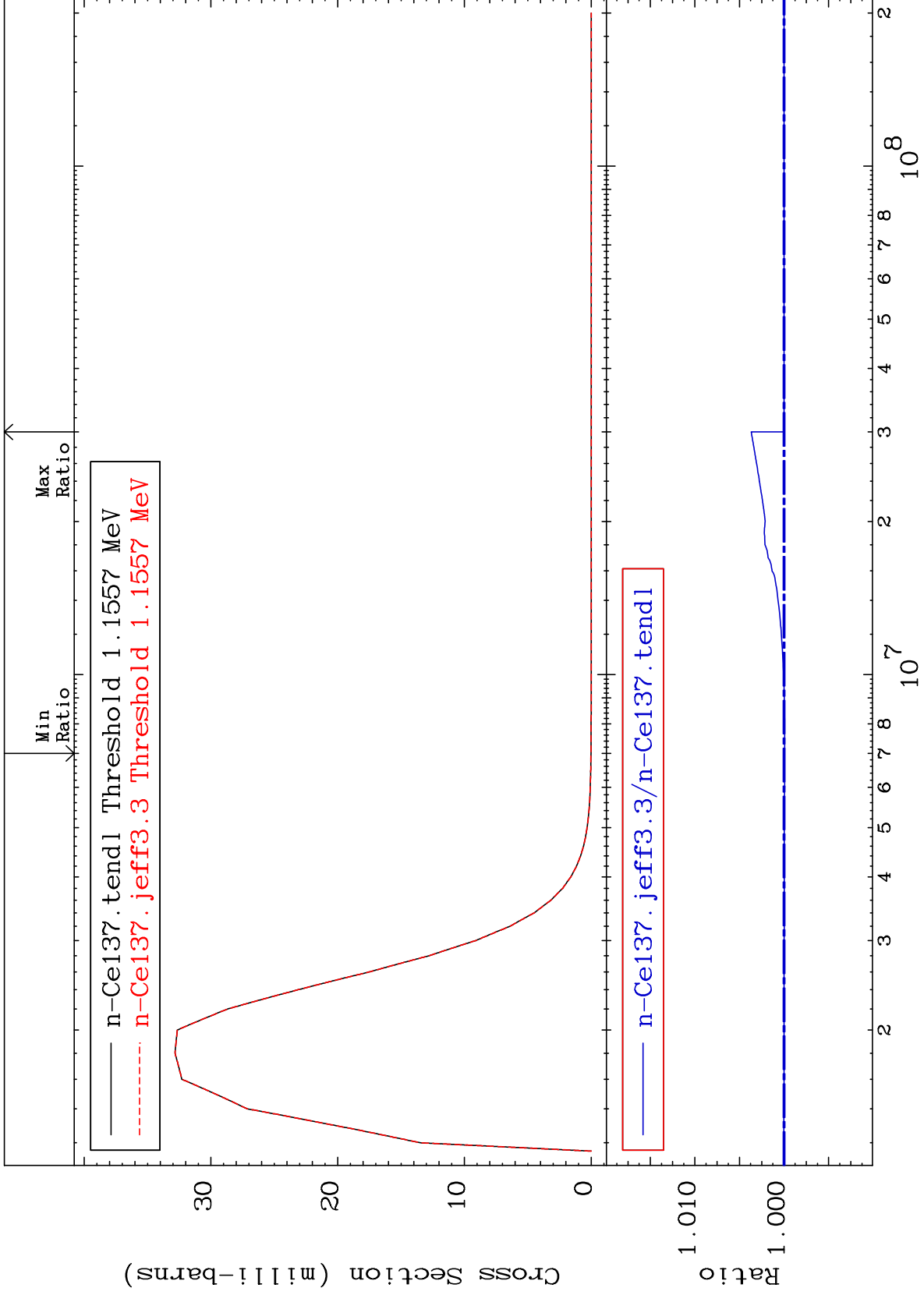
Incident Energy (eV)

58-Ce-137

MAT 5828

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

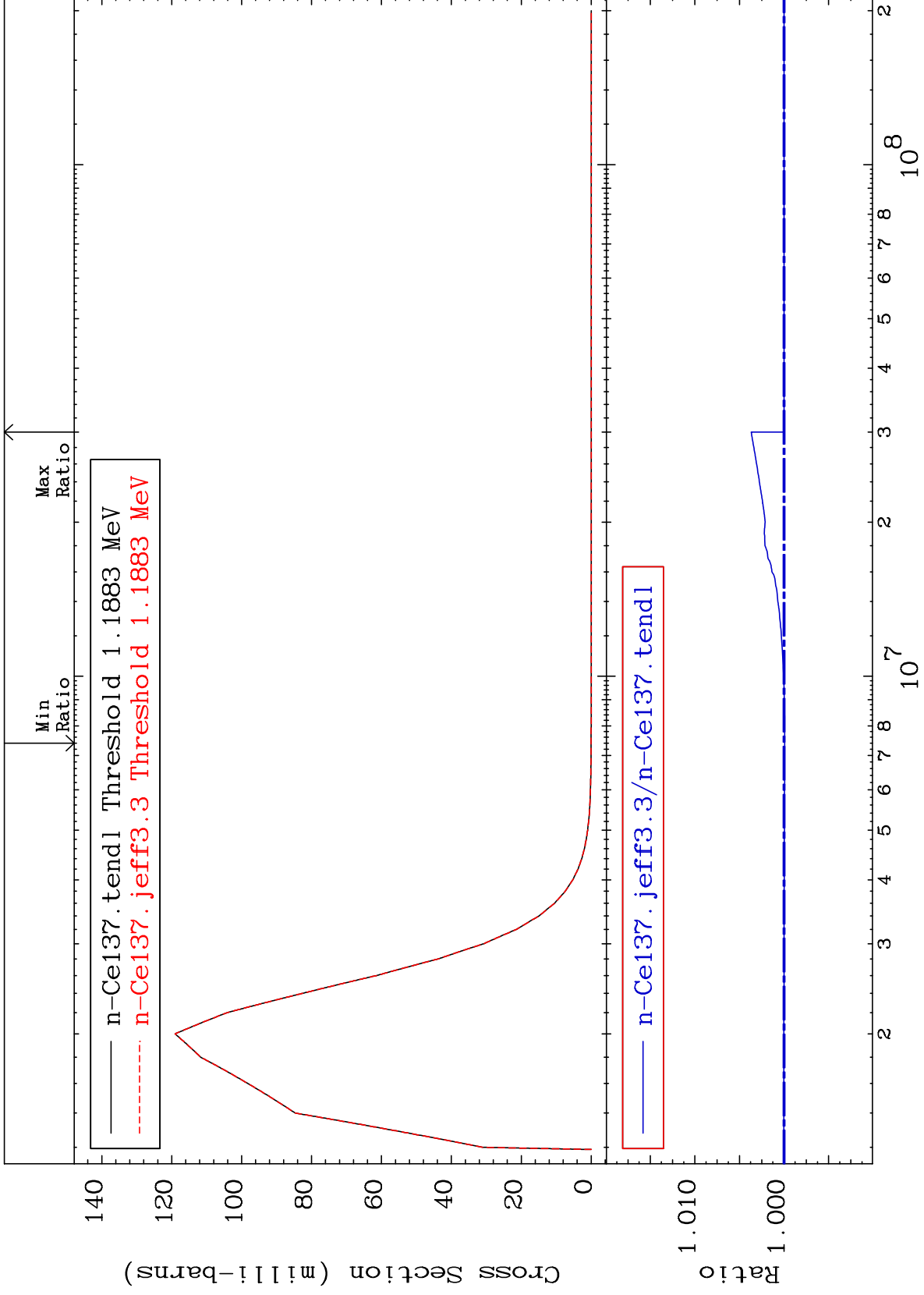
58-Ce-137  
-0.008 To 0.368 %



MAT 5828

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

58-Ce-137  
-0.008 To 0.368 %

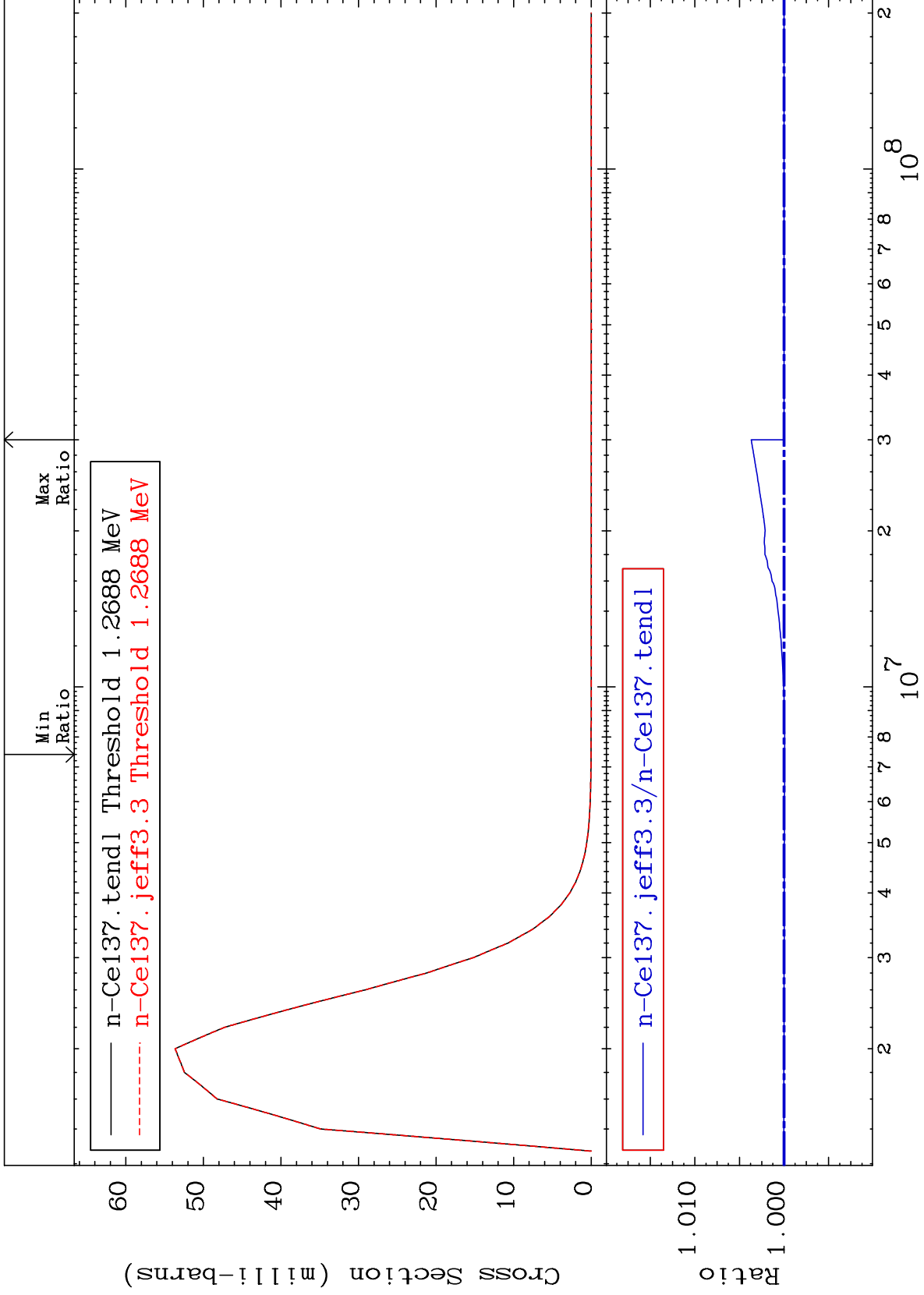




MAT 5828

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

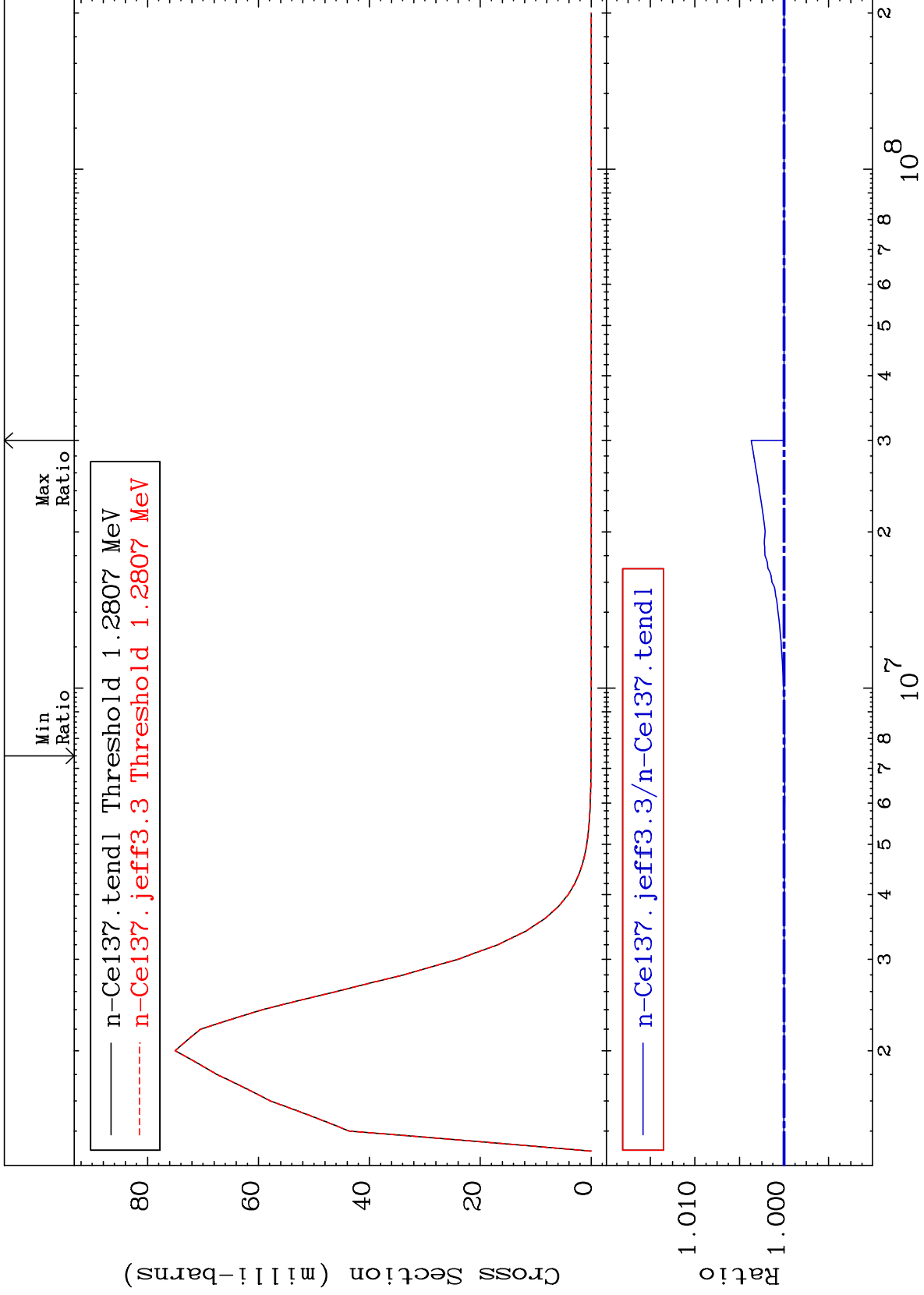
58-Ce-137  
-0.008 To 0.368 %



MAT 5828

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

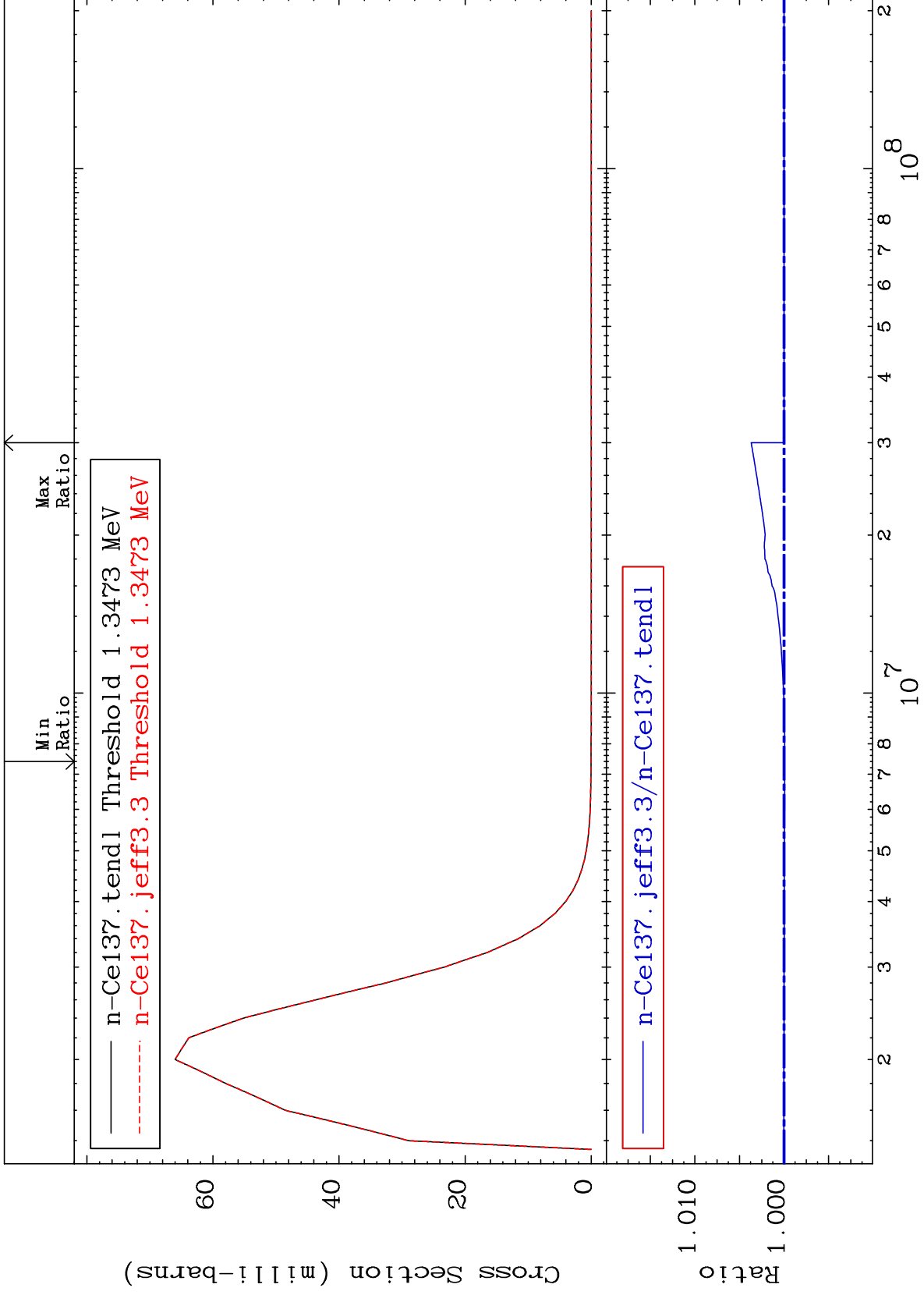
58-Ce-137  
-0.008 To 0.368 %



MAT 5828

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

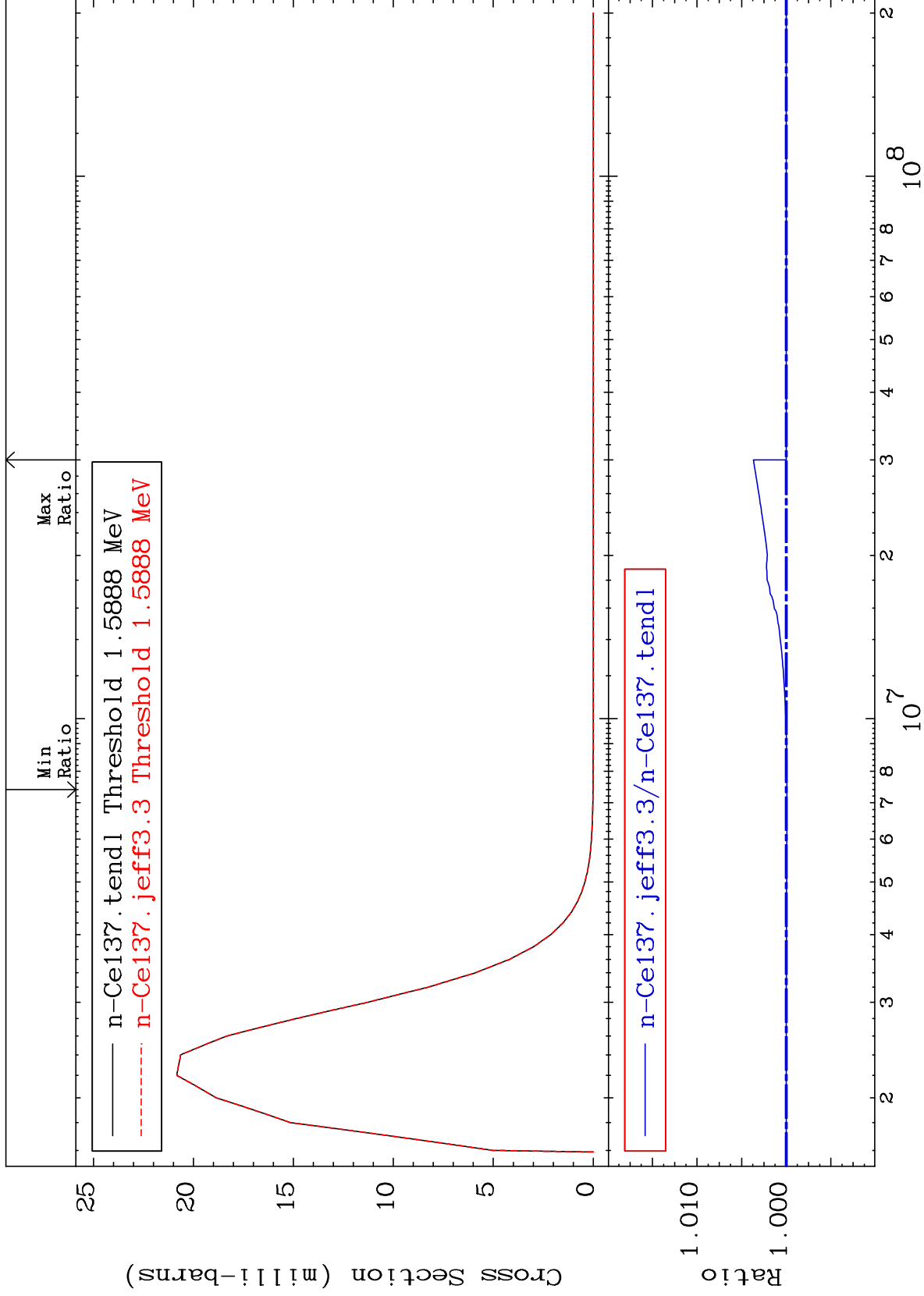
58-Ce-137  
-0.008 To 0.368 %



MAT 5828

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

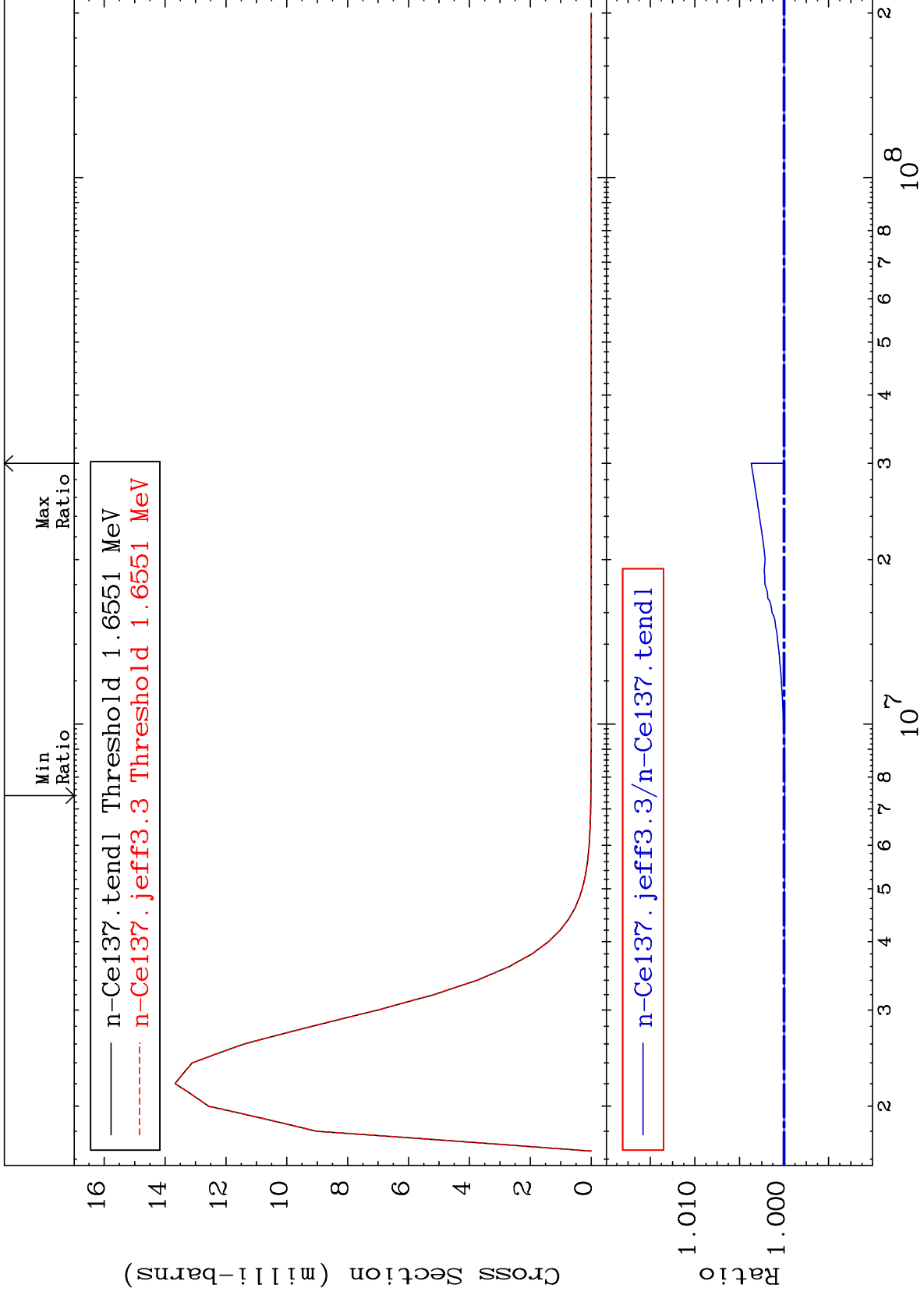
58-Ce-137  
-0.008 To 0.369 %



MAT 5828

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

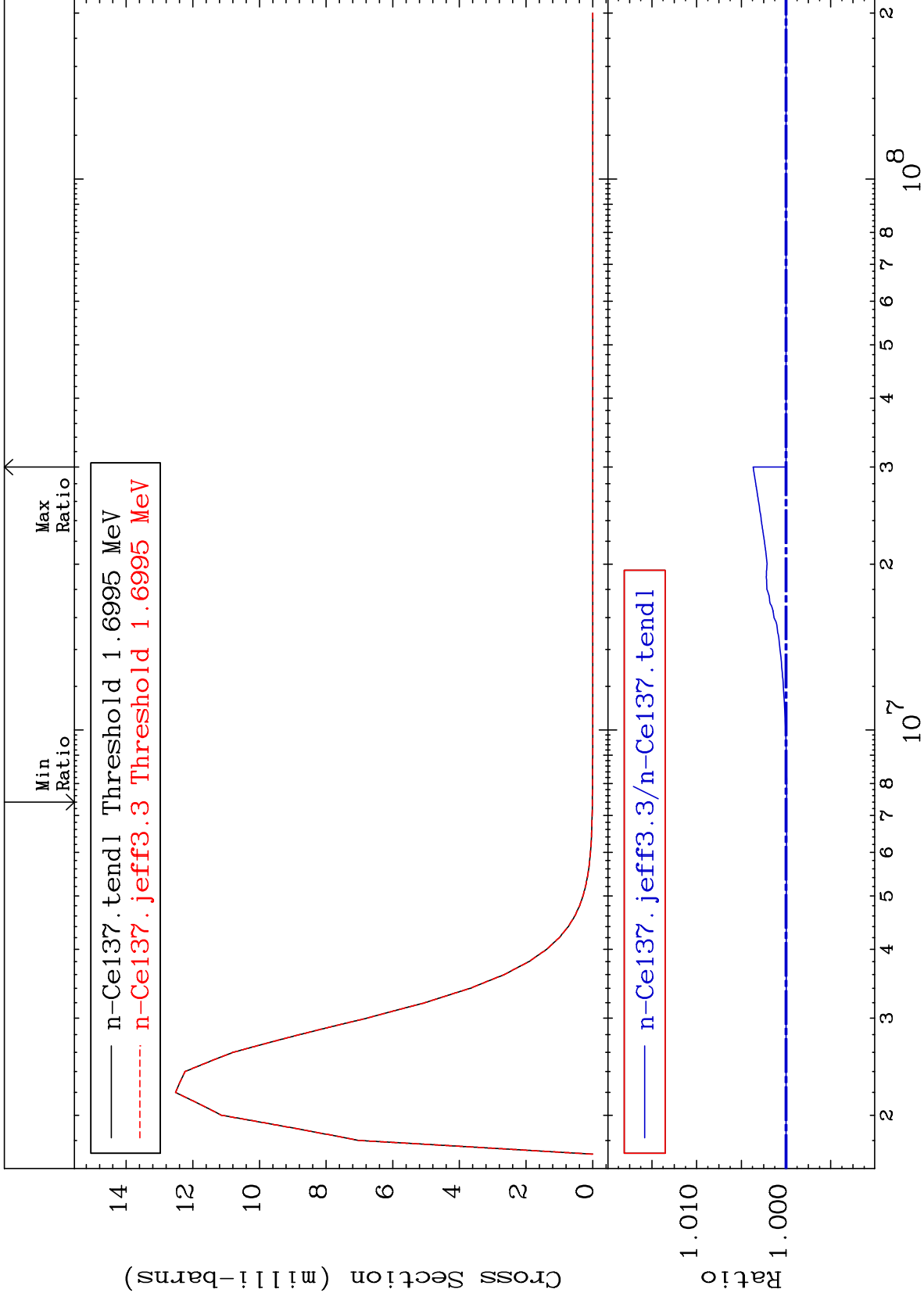
58-Ce-137  
-0.008 To 0.368 %



MAT 5828

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

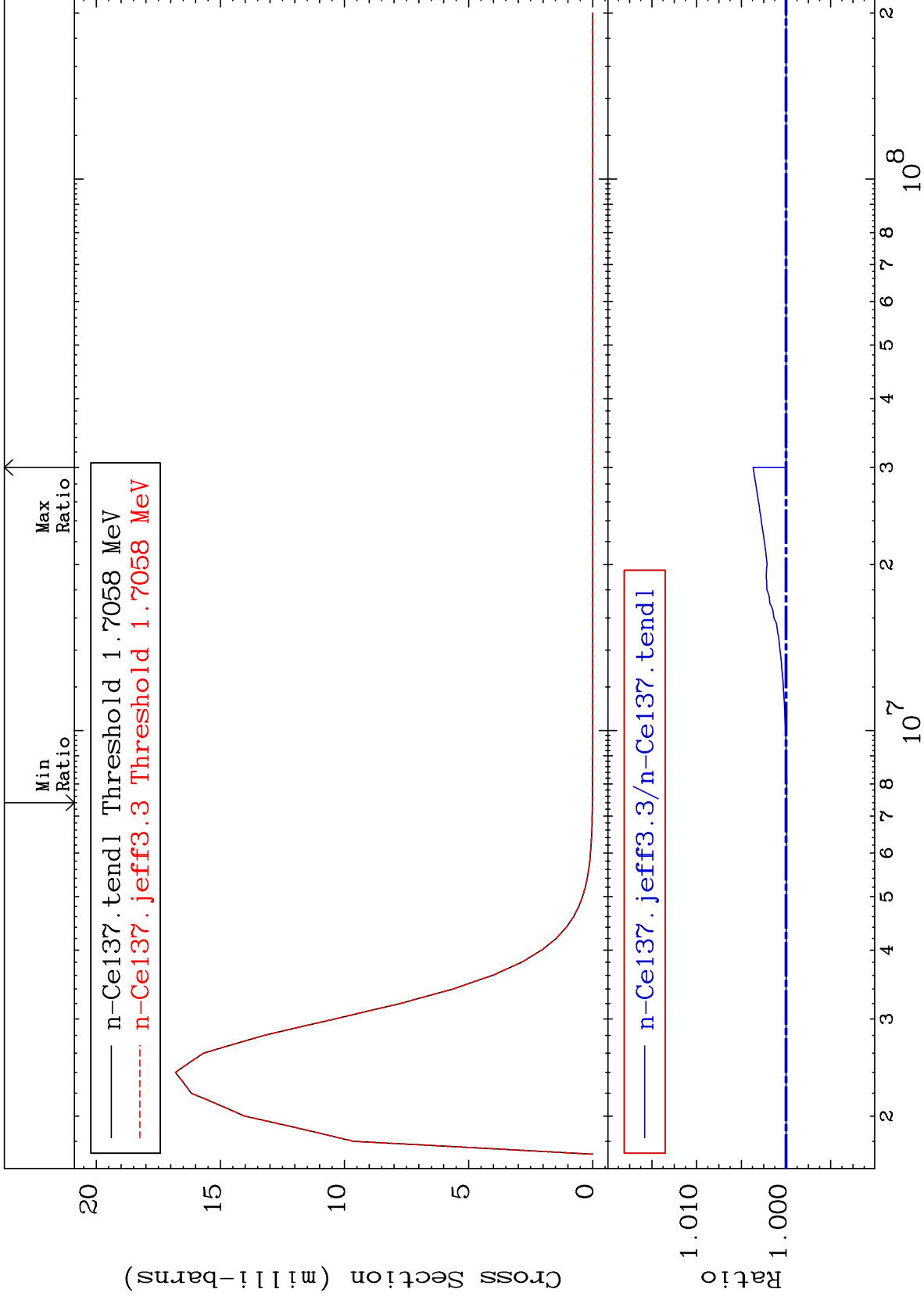
58-Ce-137  
-0.008 To 0.368 %



MAT 5828

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

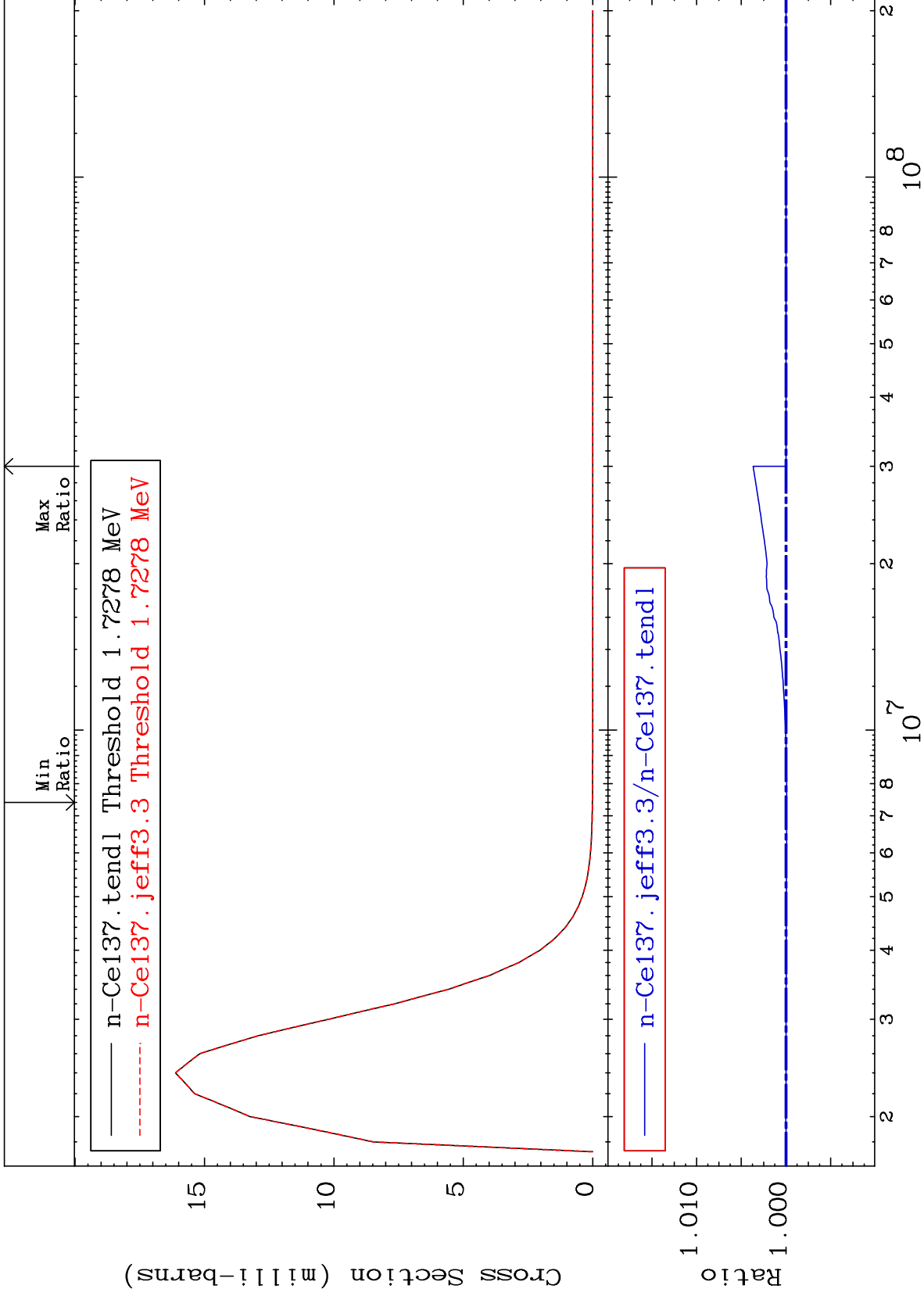
58-Ce-137  
-0.008 To 0.368 %



MAT 5828

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

58-Ce-137  
-0.008 To 0.368 %



40

Incident Energy (eV)

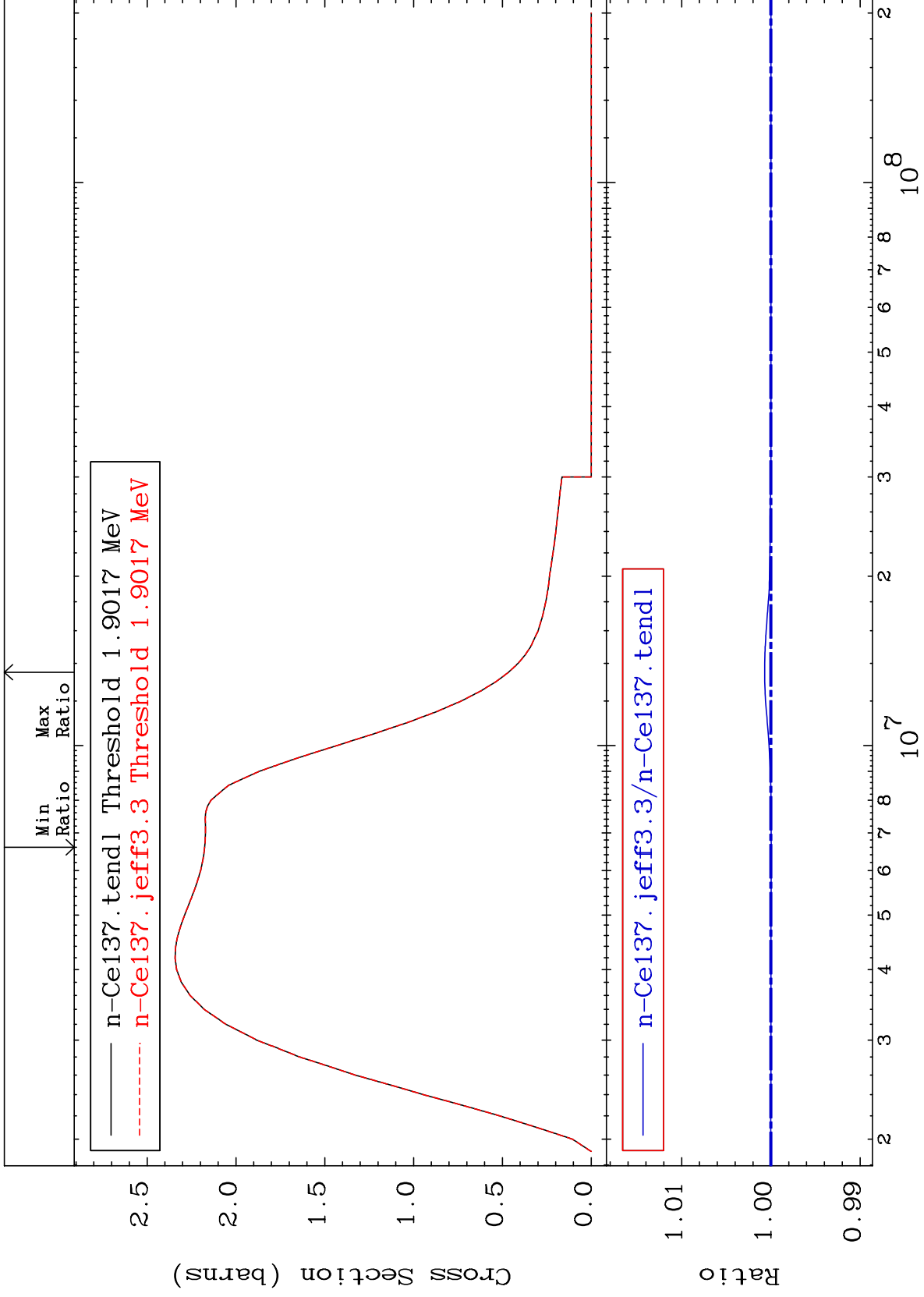
58-Ce-137



MAT 5828

(n, n') Continuum  
Cross Section

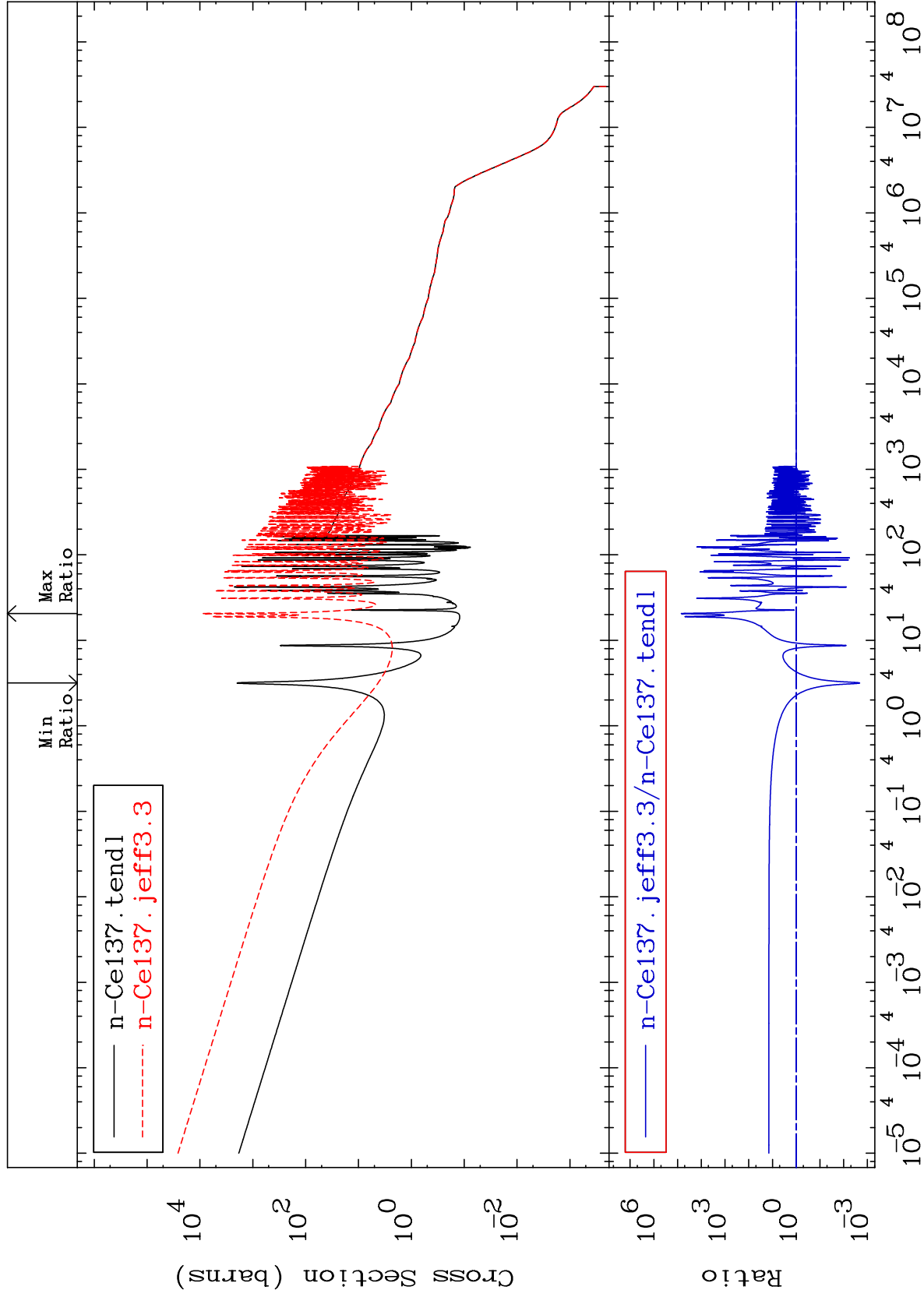
58-Ce-137  
-0.004 To 0.070 %



MAT 5828

58-Ce-137

-99.79 To 9999. %



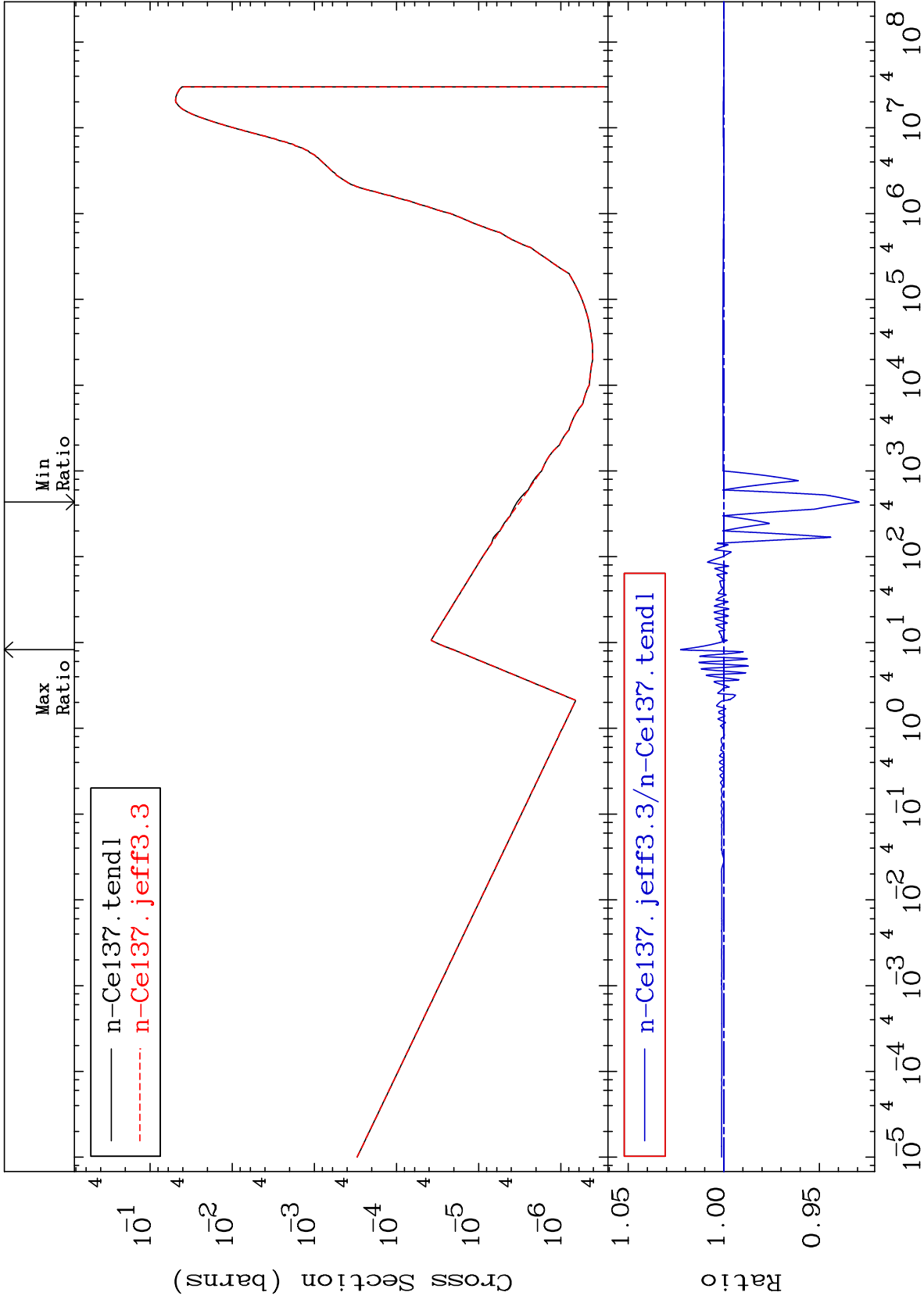
42

Incident Energy (eV)

58-Ce-137

MAT 5828

(n,p) Cross Section  
58-Ce-137  
-7.100 To 2.274 %



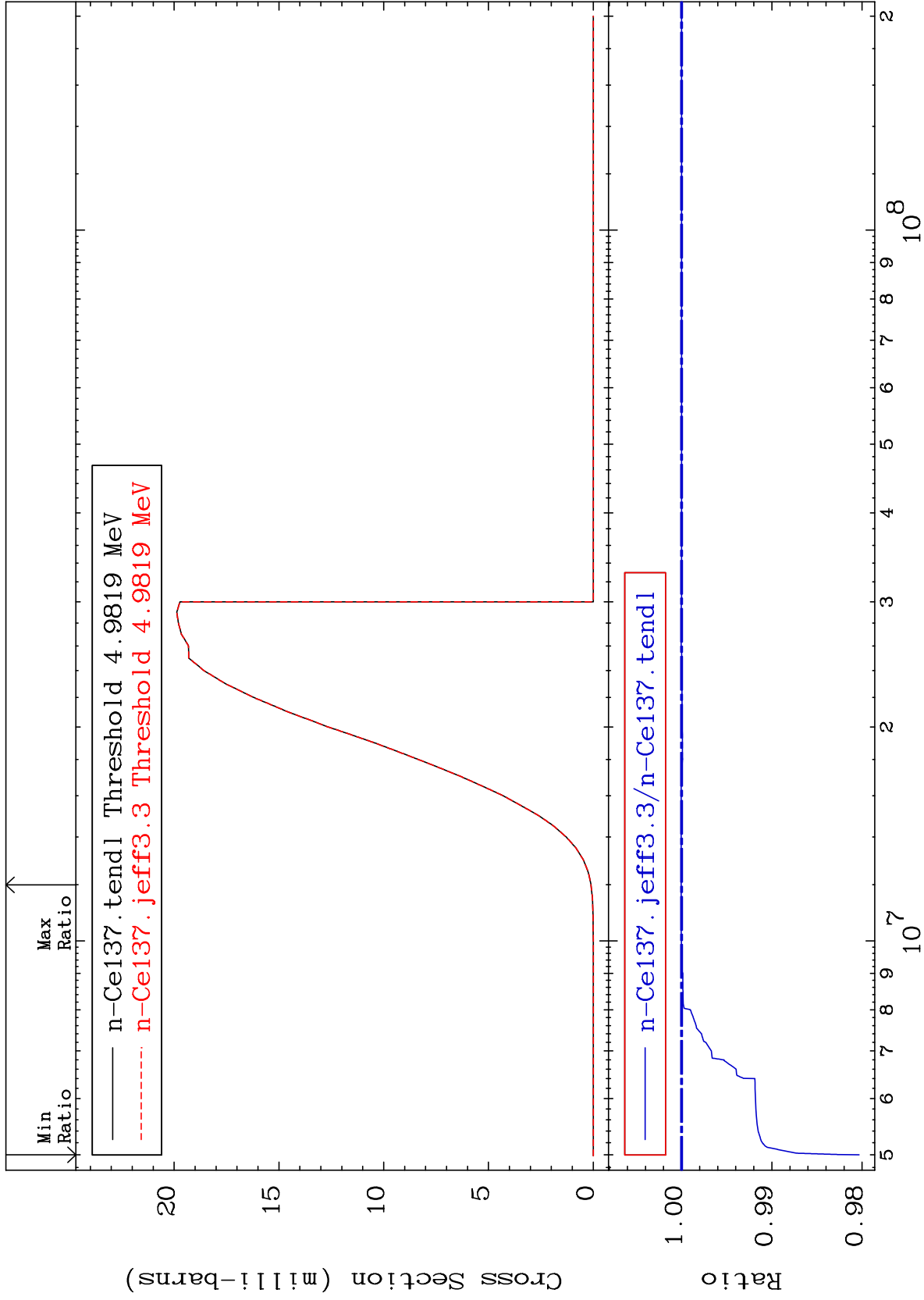
MAT 5828

(n, d)

58-Ce-137

Cross Section

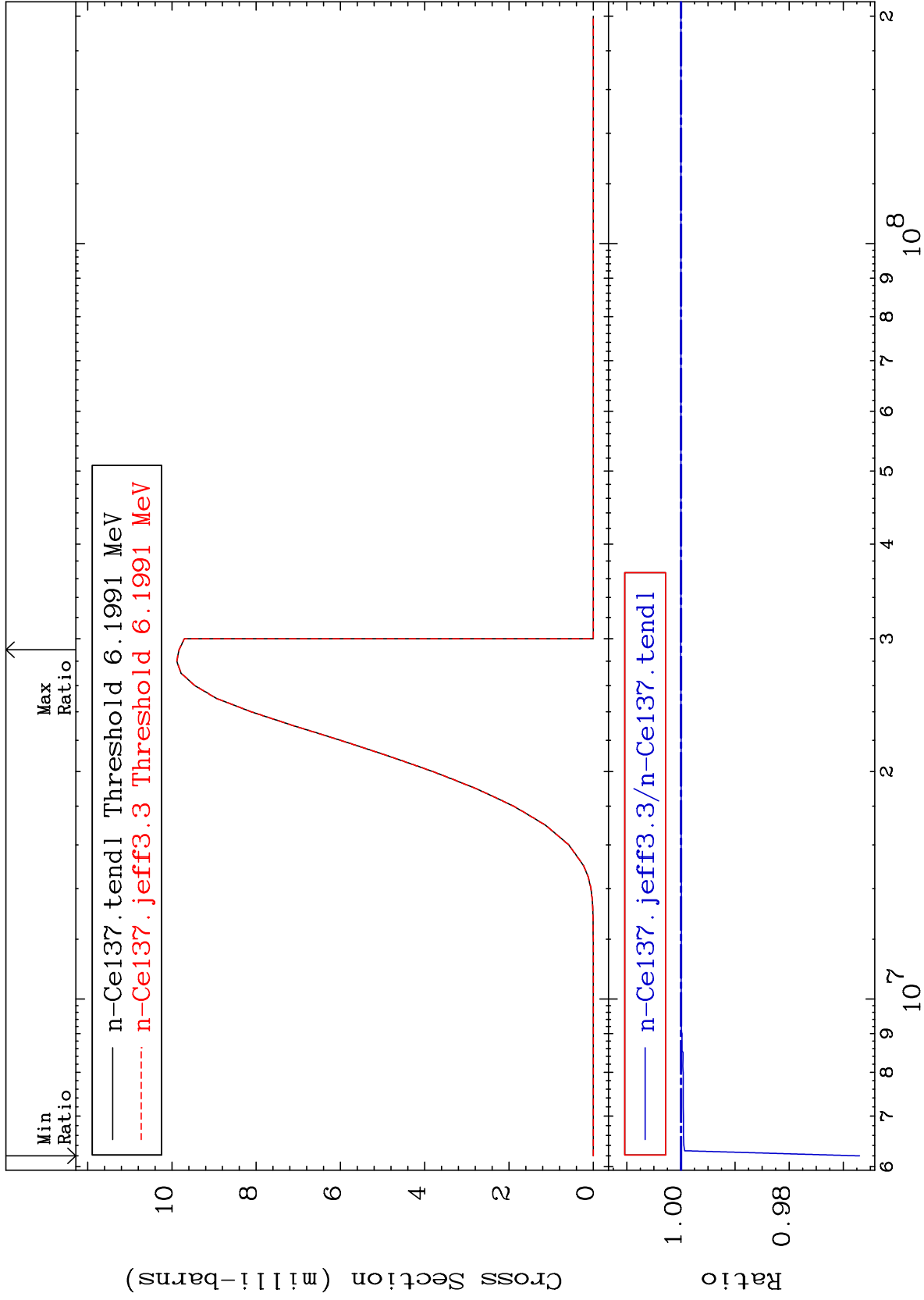
-1.968 To 0.006 %



MAT 5828

58-Ce-137

(n, t)  
Cross Section  
-3.299 To 0.005 %



45

Incident Energy (eV)

58-Ce-137

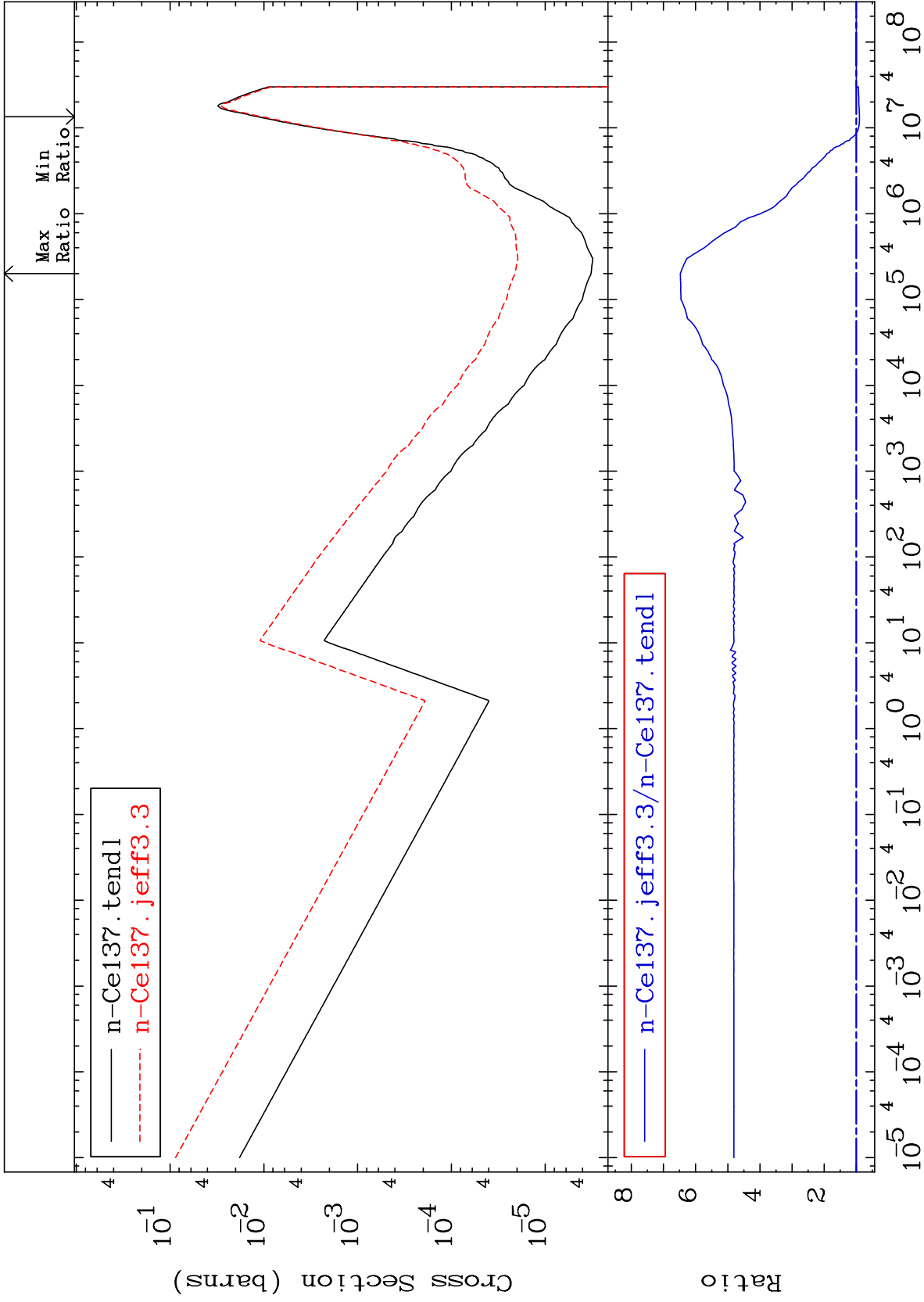
MAT 5828

(n,  $\alpha$ )

58-Ce-137

Cross Section

-9.684 To 547.5 %



46

Incident Energy (eV)

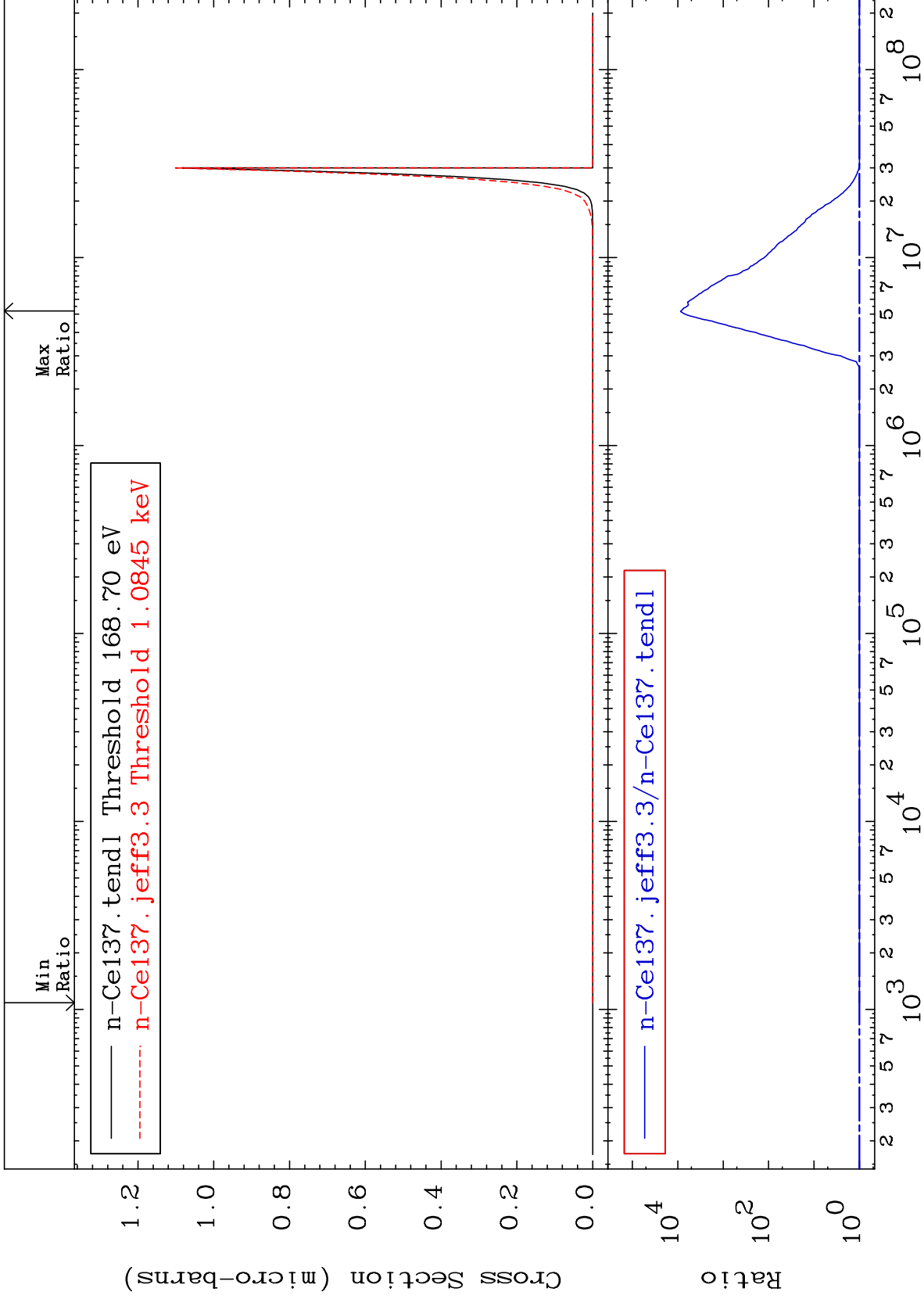
58-Ce-137

MAT 5828

(n,2α)

58-Ce-137  
To 9999. %

Cross Section



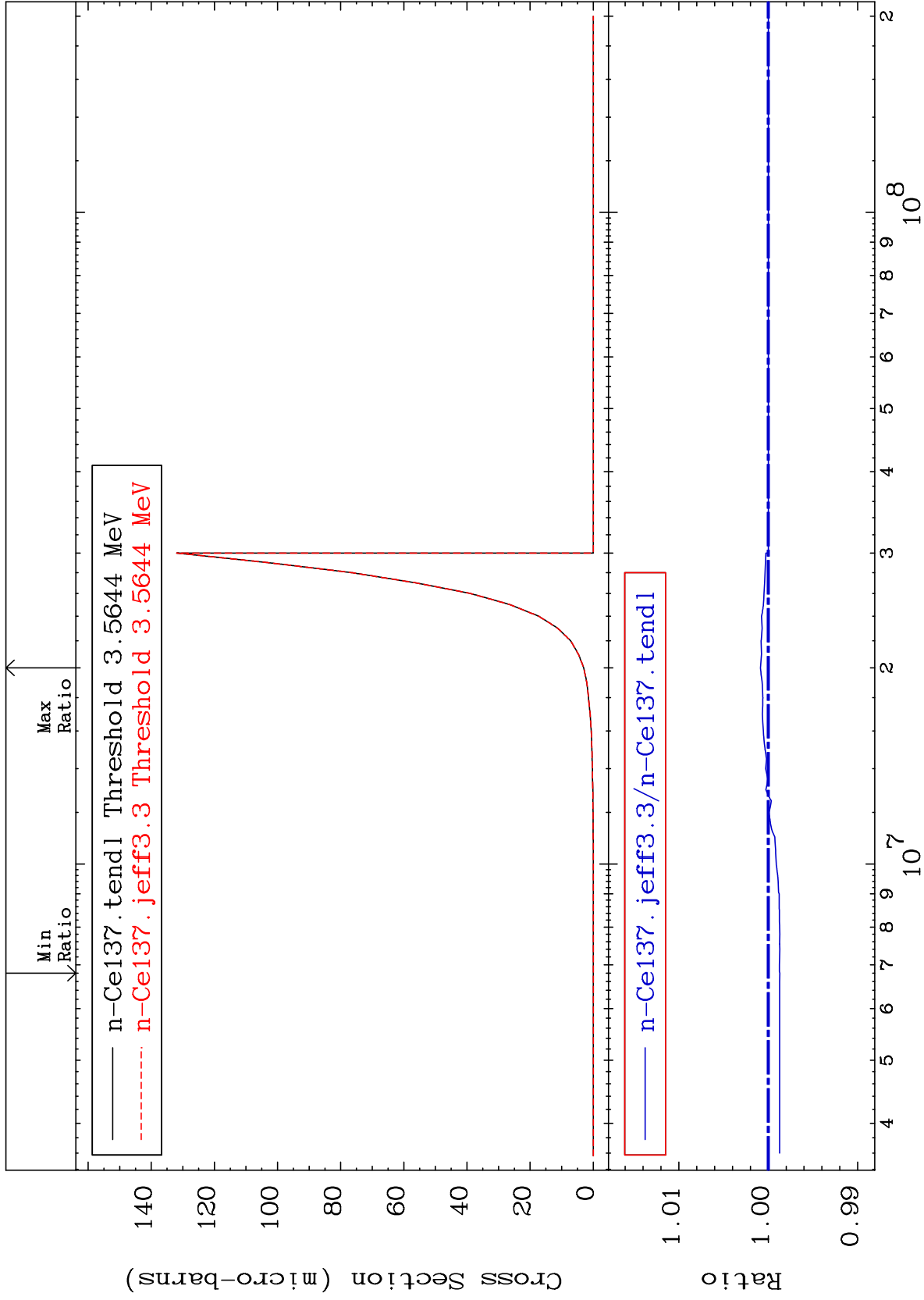
MAT 5828

(n,2p)

58-Ce-137

Cross Section

-0.129 To 0.088 %



48

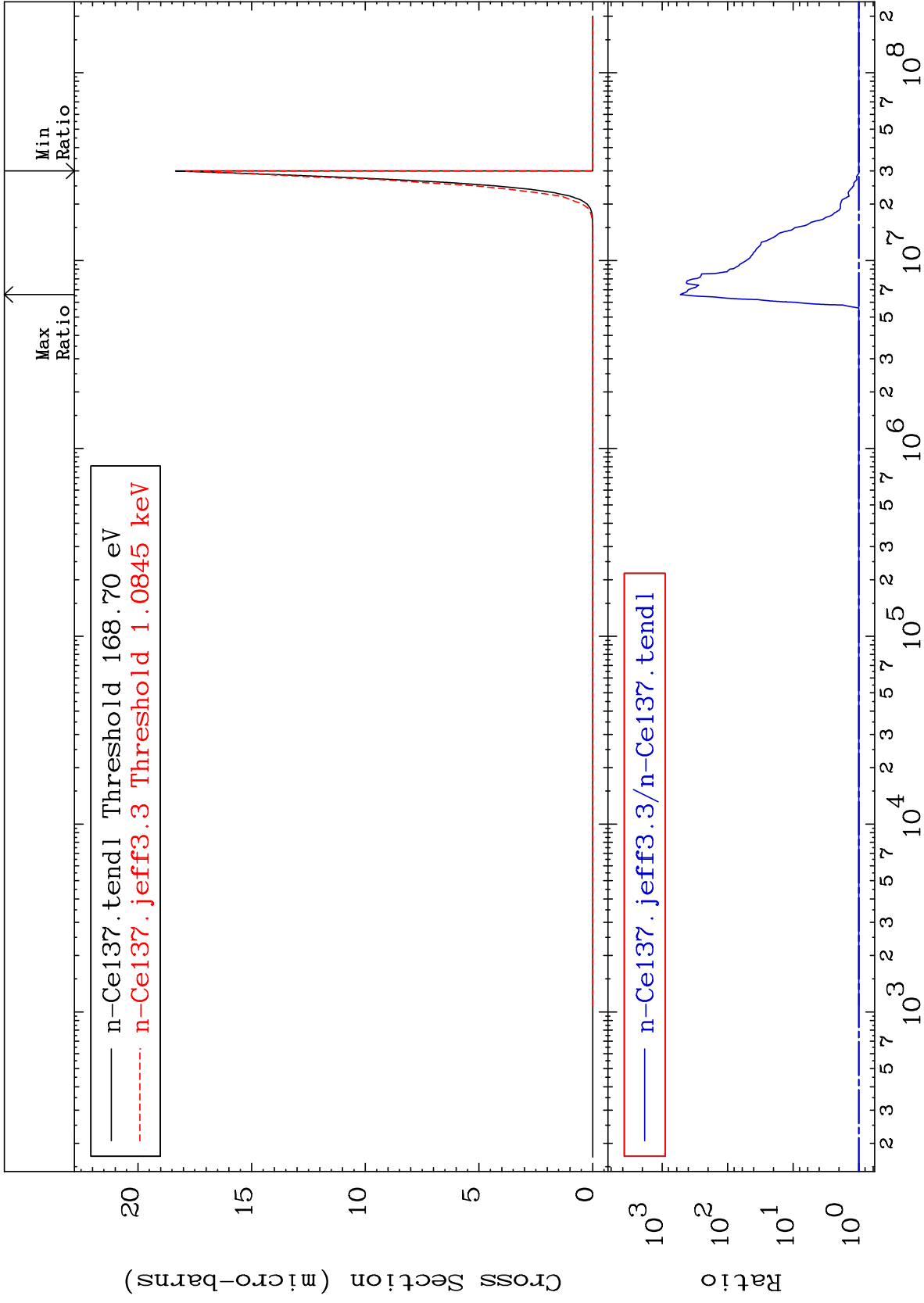
Incident Energy (eV)

58-Ce-137



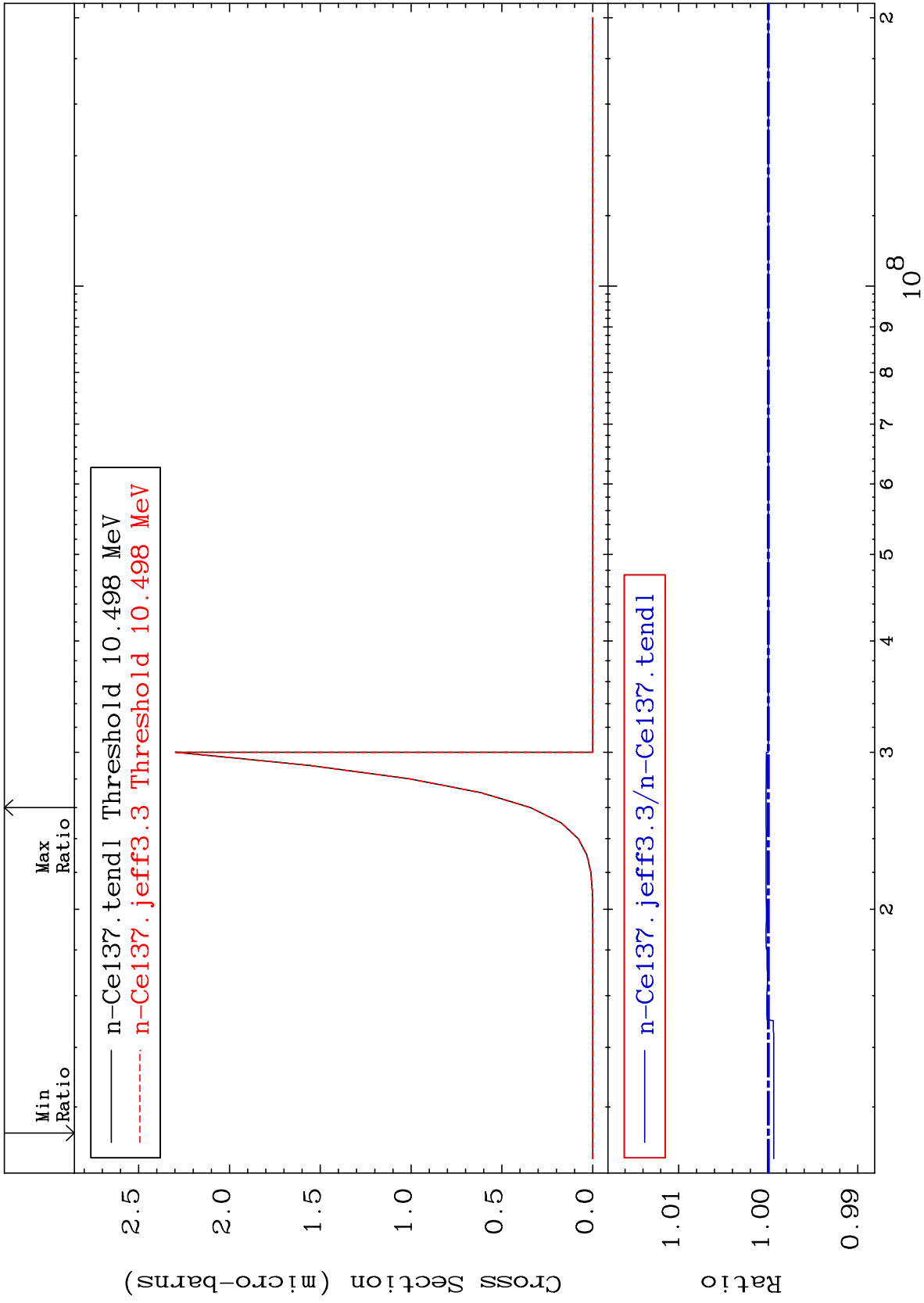
Cross Section

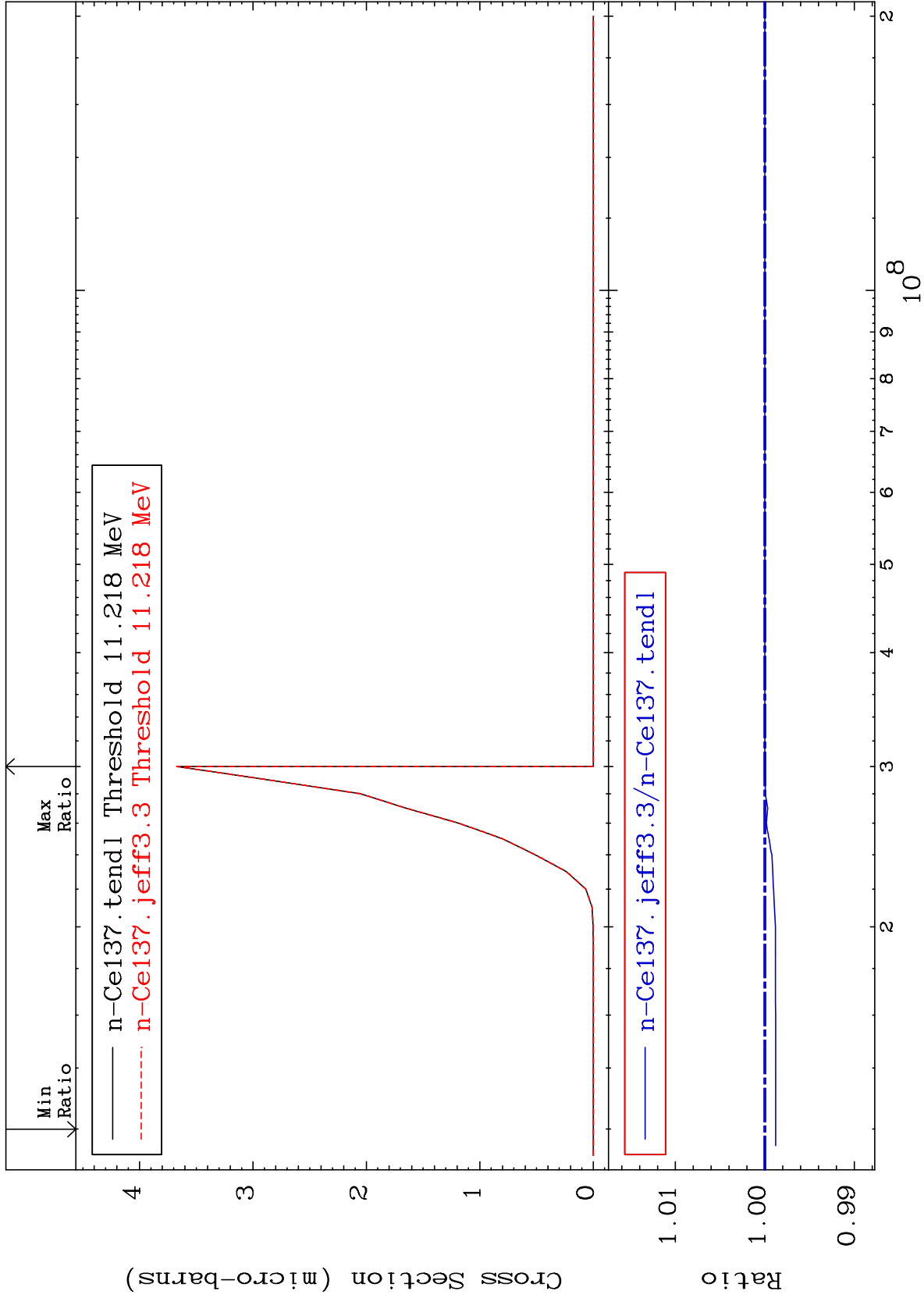
-2.438 To 9999. %



Cross Section

-0.062 To 0.026 %





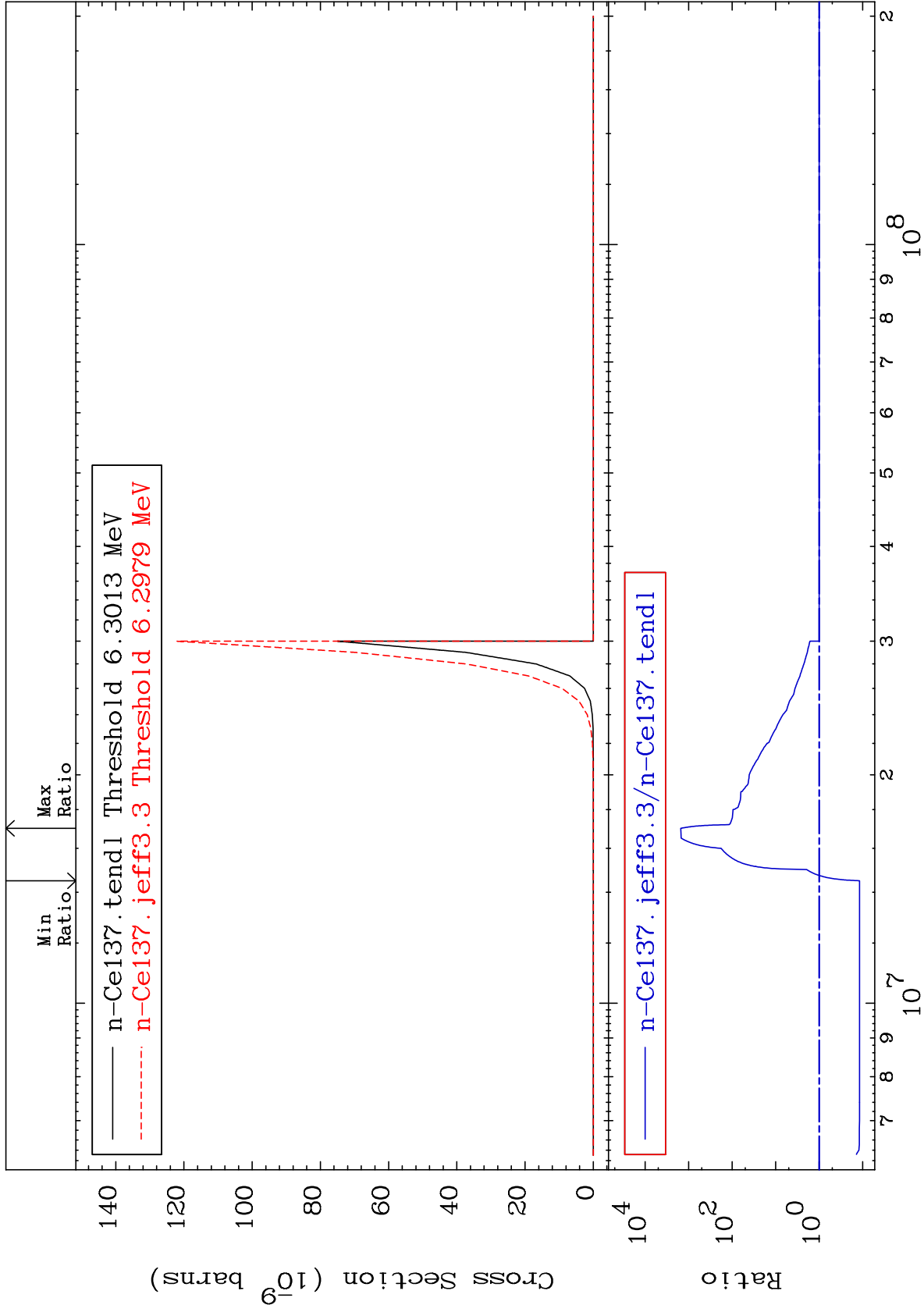
MAT 5828

(n, d)  $\alpha$

58-Ce-137

Cross Section

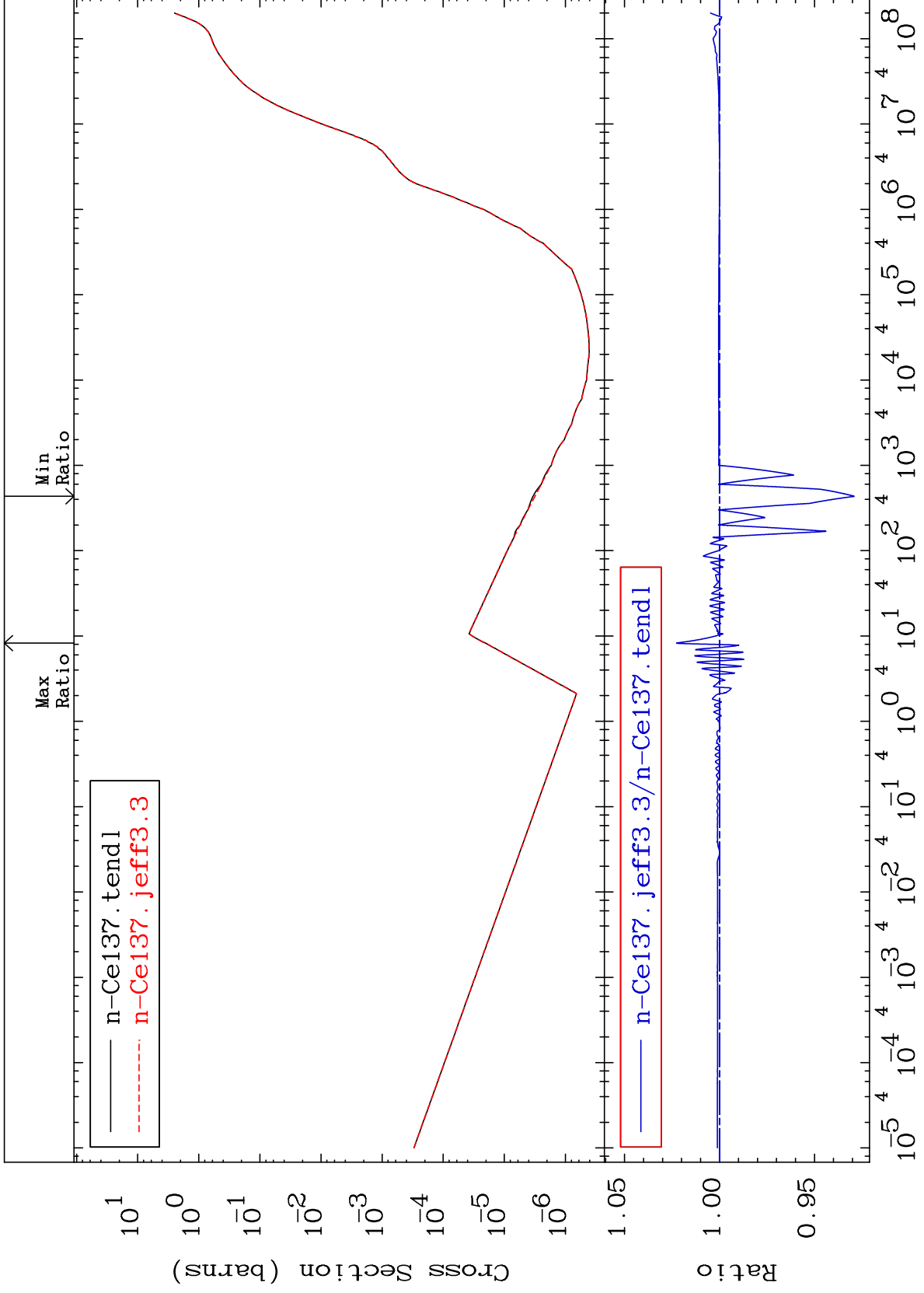
-88.25 To 9999. %



52

Incident Energy (eV)

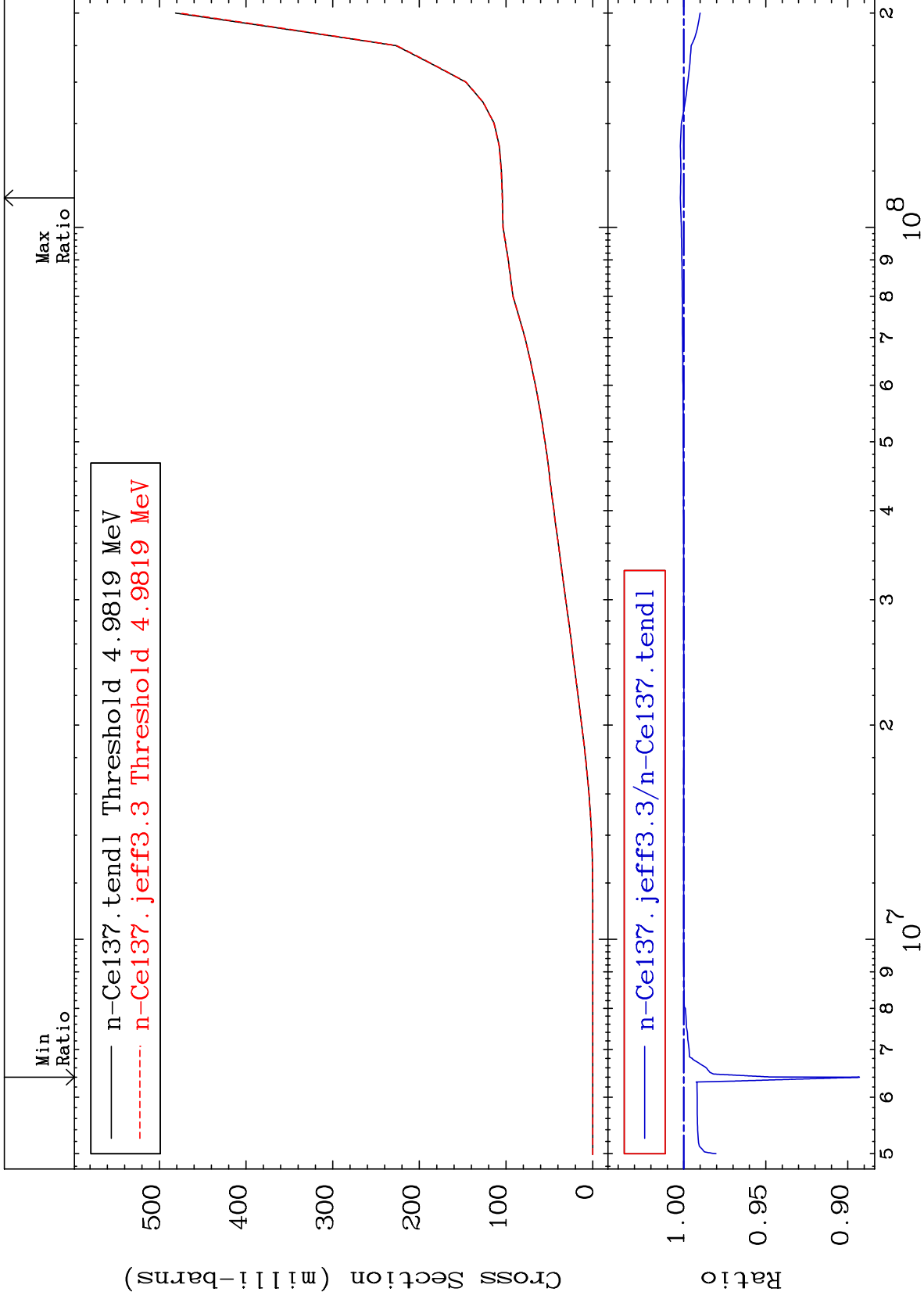
58-Ce-137



MAT 5828

Deuterium Production  
Cross Section

58-Ce-137  
-10.71 To 0.205 %



54

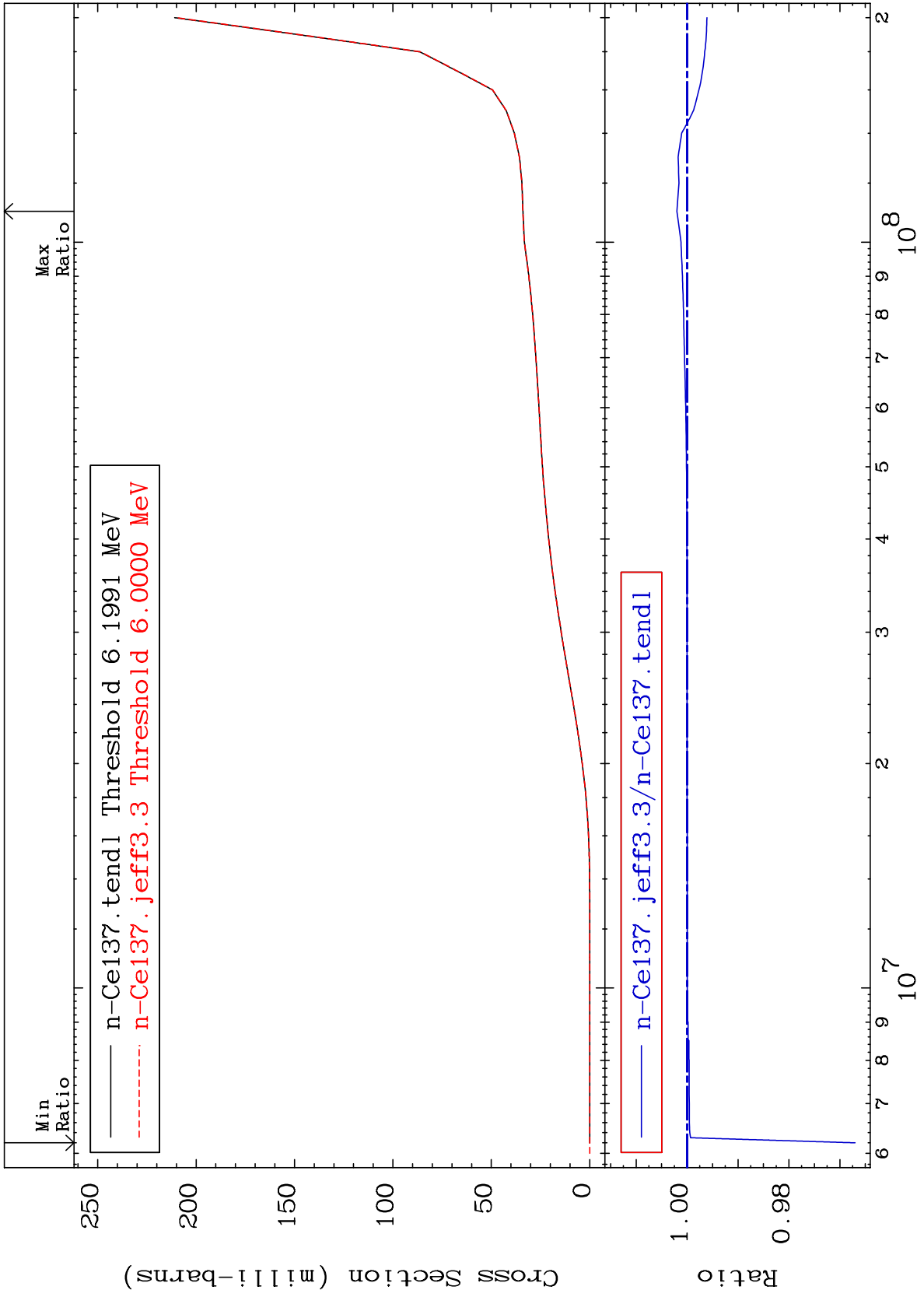
Incident Energy (eV)

58-Ce-137

MAT 5828

Tritium Production  
Cross Section

58-Ce-137  
-3.299 To 0.199 %



55

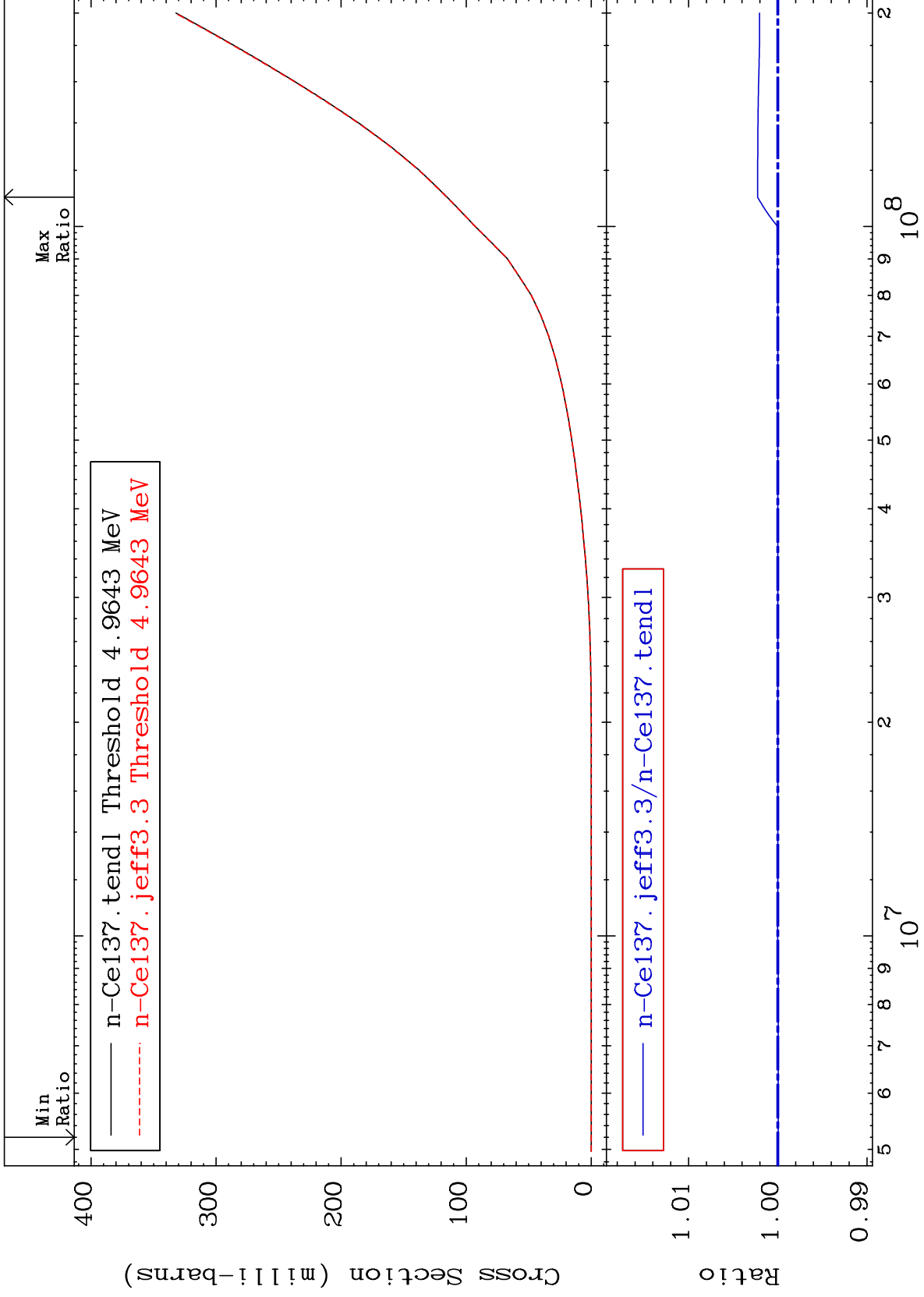
Incident Energy (eV)

58-Ce-137

MAT 5828

He-3 Production  
Cross Section

58-Ce-137  
-0.006 To 0.227 %



56

Incident Energy (eV)

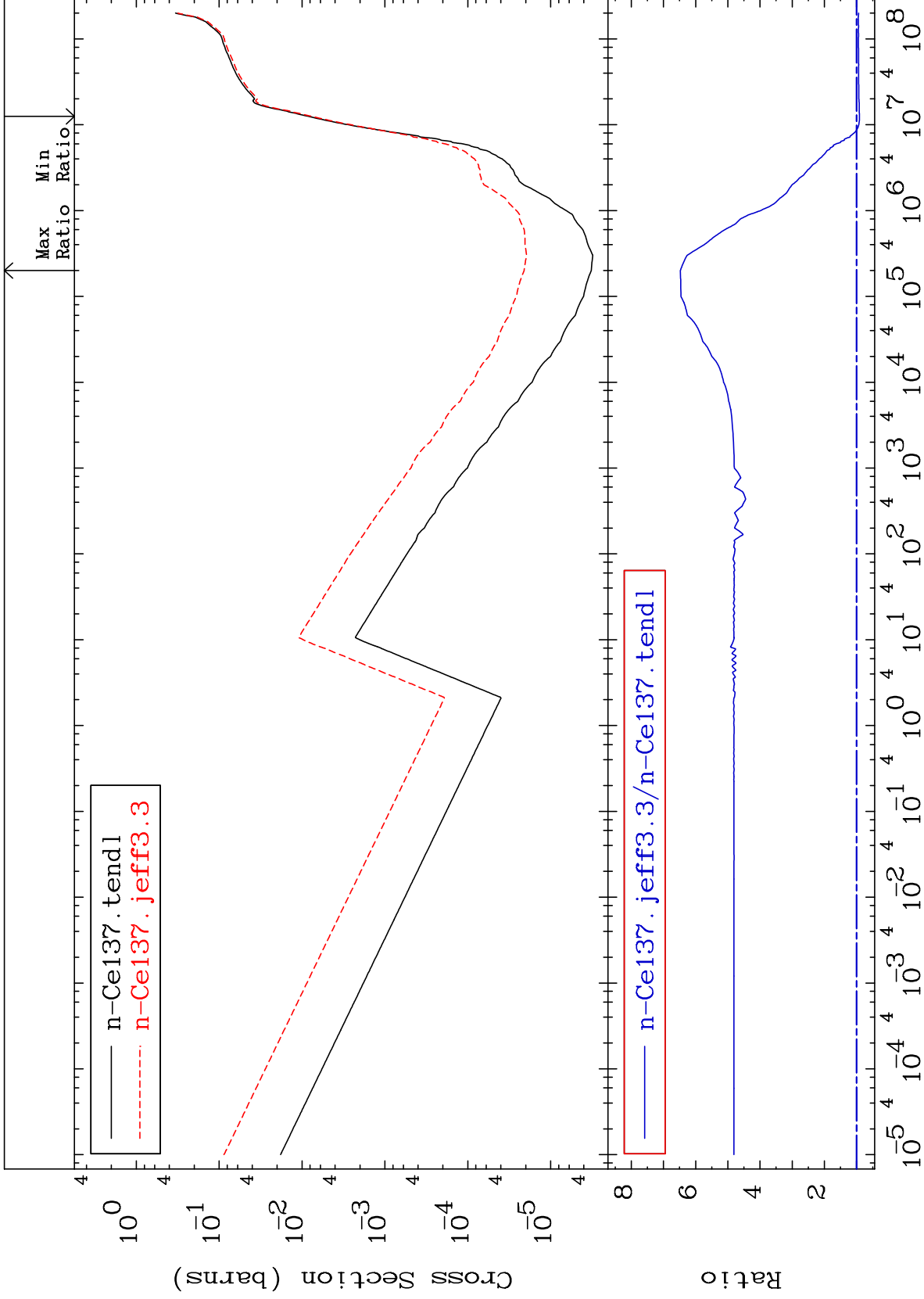
58-Ce-137



MAT 5828

He-4 Production  
Cross Section

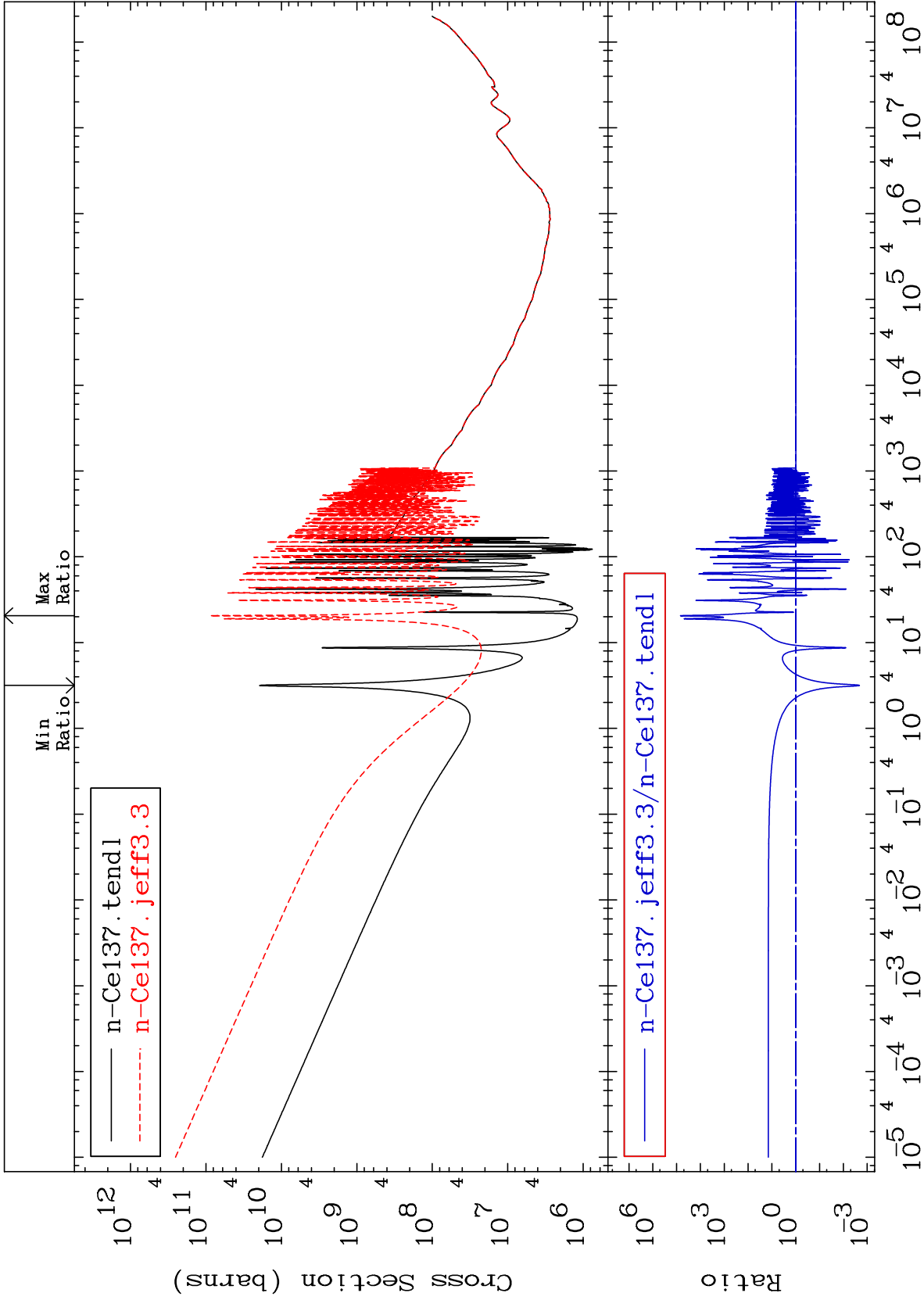
58-Ce-137  
-8.852 To 547.5 %

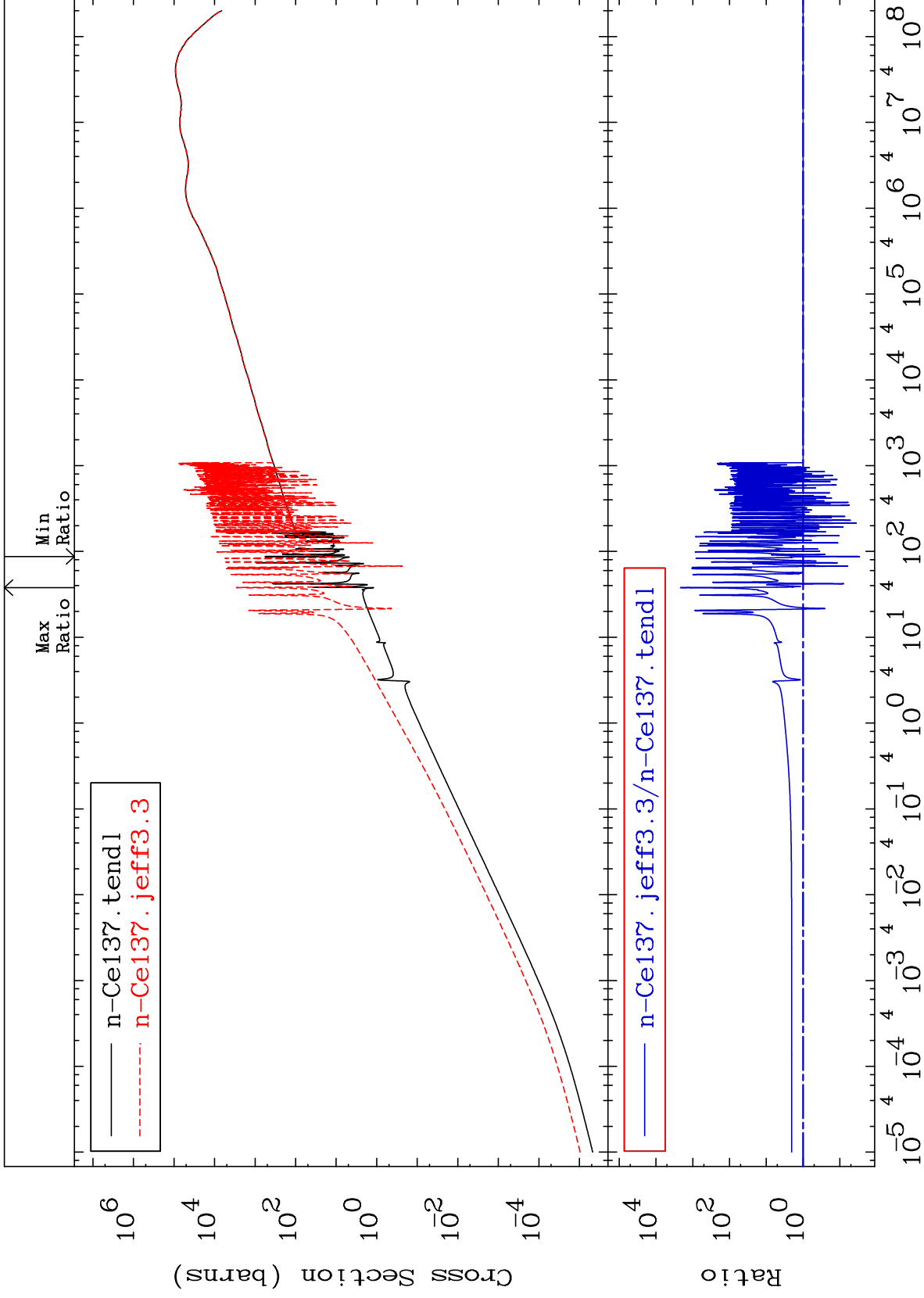


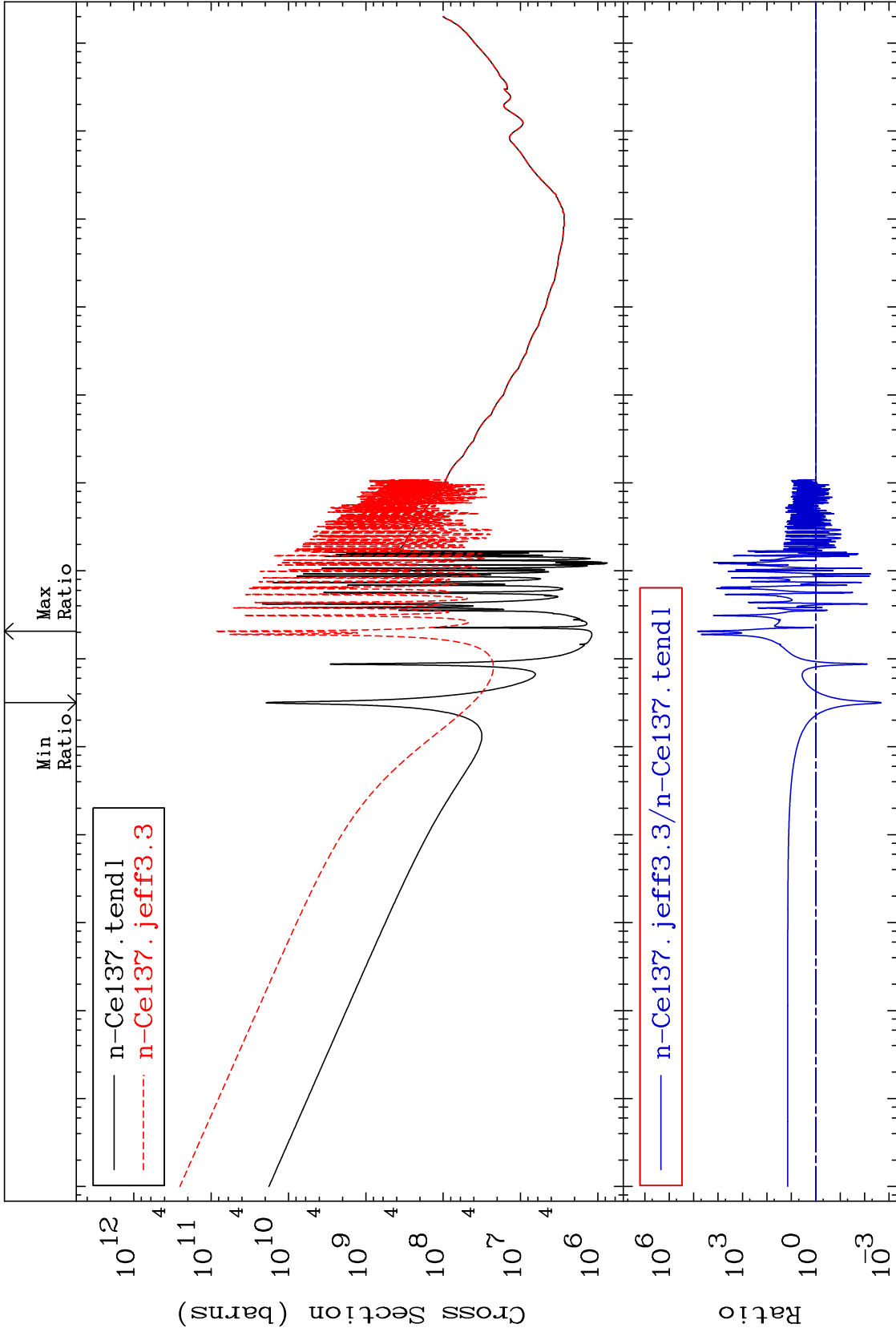
57

Incident Energy (eV)

58-Ce-137



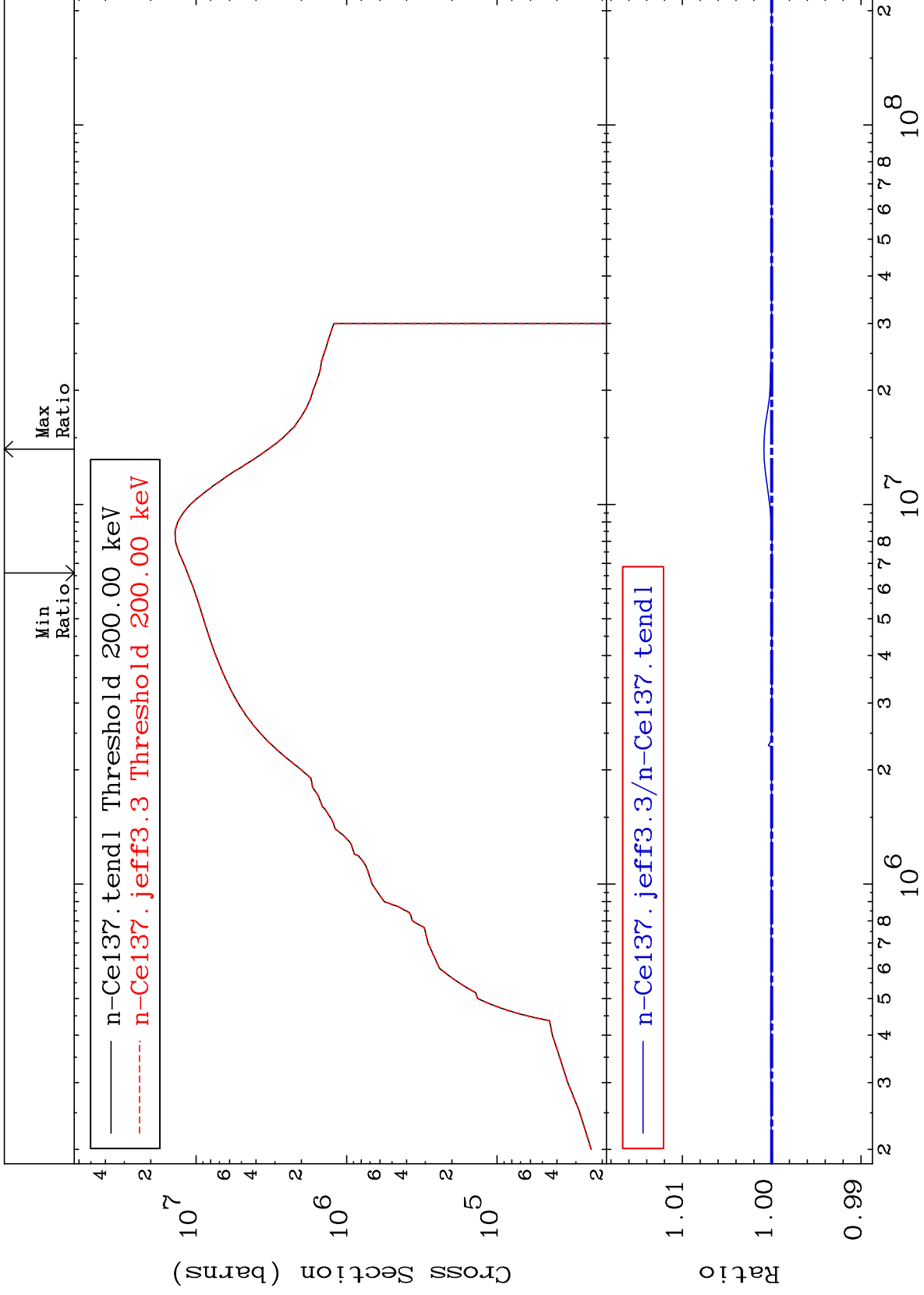




MAT 5828

Kerma inelastic (mt51-91)  
Cross Section

58-Ce-137  
-0.005 To 0.088 %



61

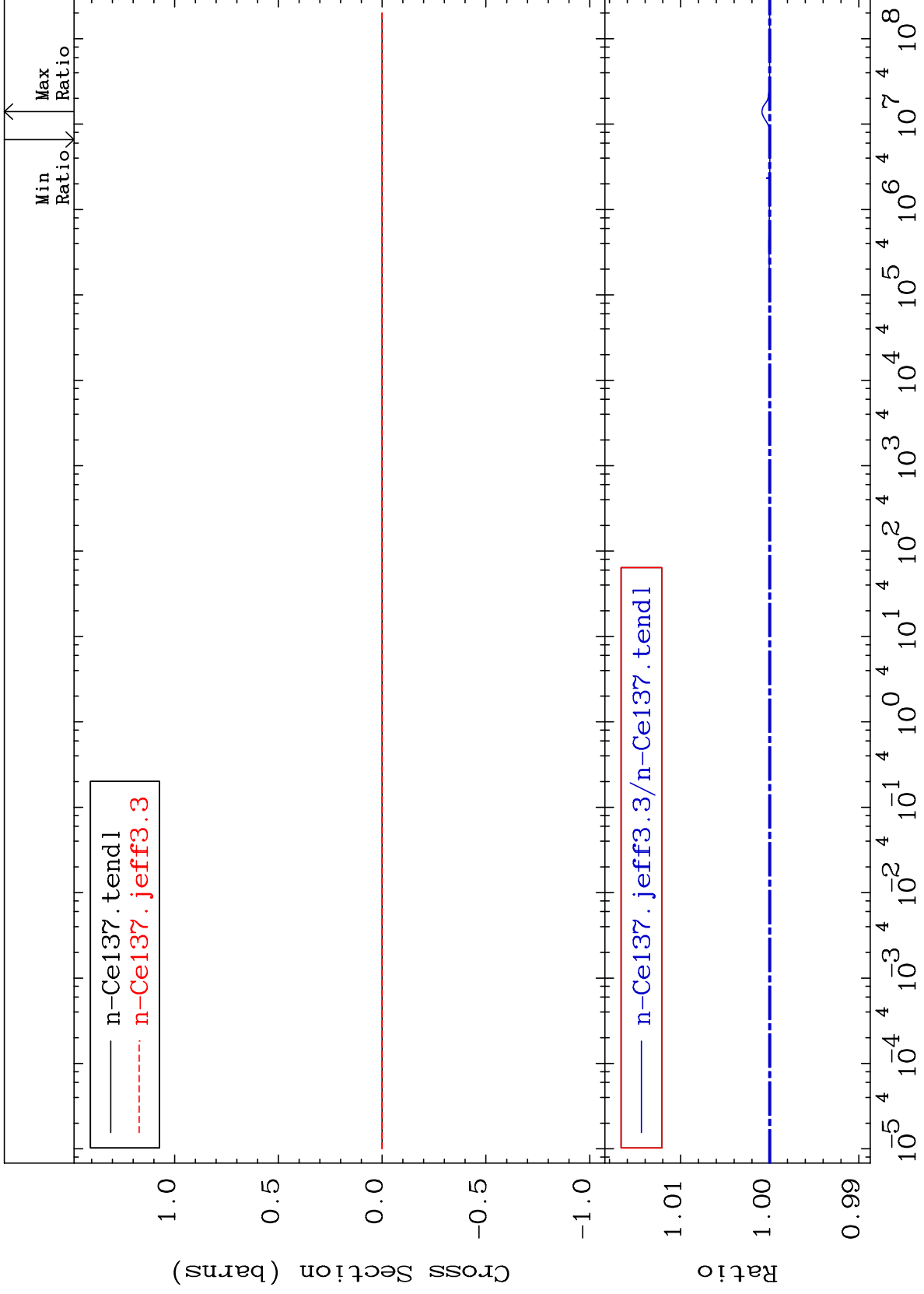
Incident Energy (eV)

58-Ce-137

MAT 5828

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

58-Ce-137  
-0.005 To 0.088 %



62

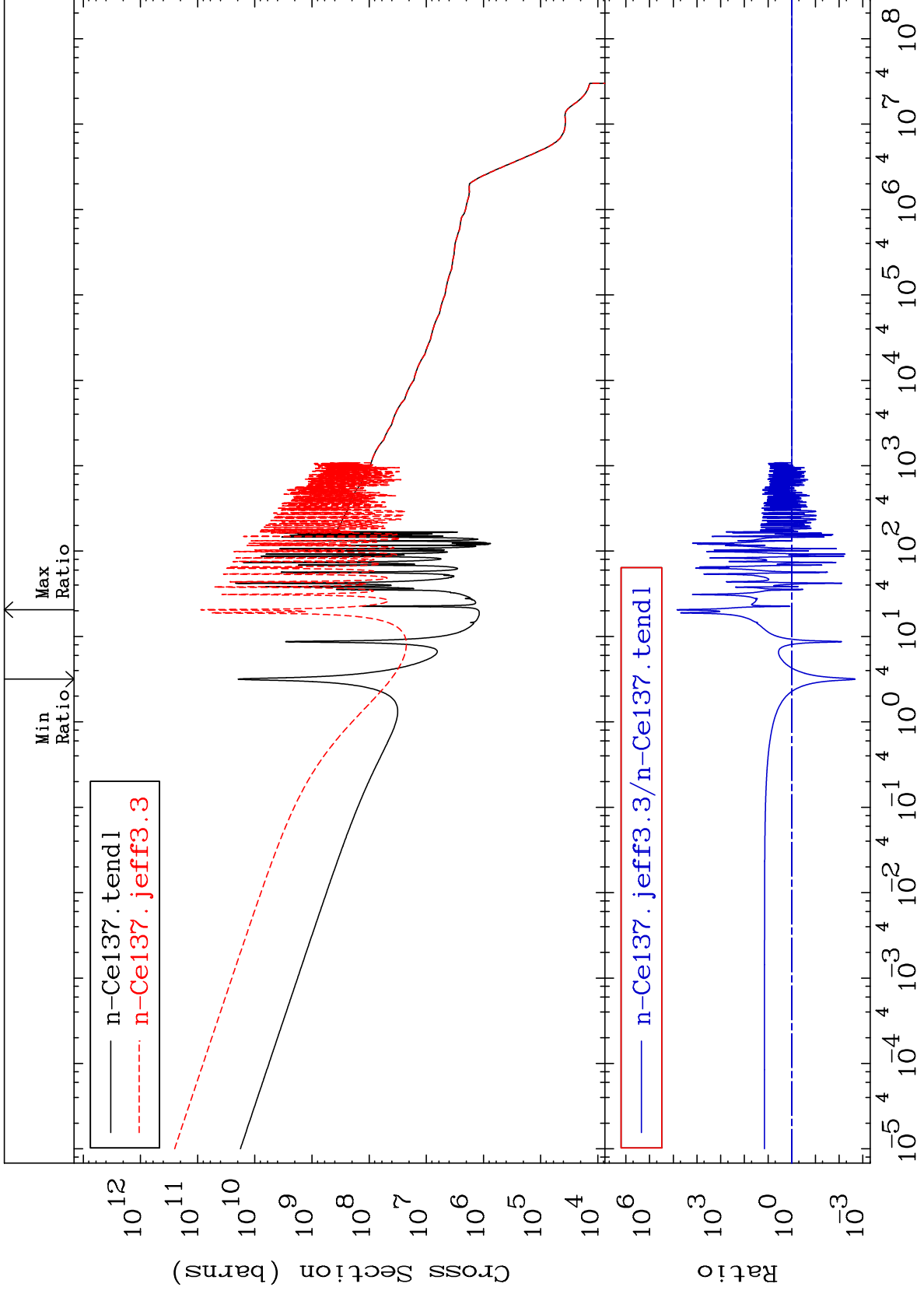
Incident Energy (eV)

58-Ce-137

MAT 5828

Kerma capture (mt102)  
Cross Section

58-Ce-137  
-99.79 To 9999. %



63

Incident Energy (eV)

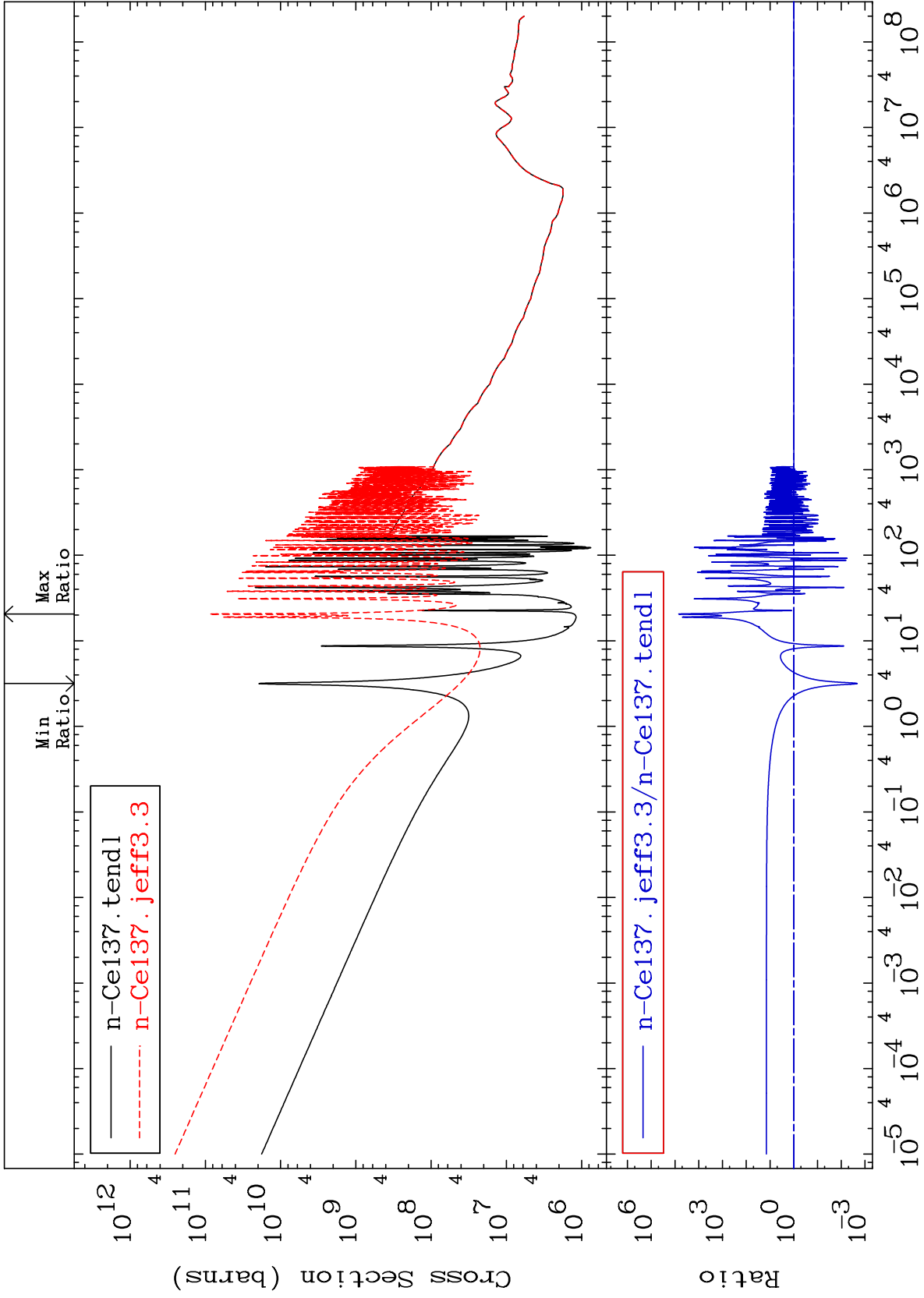
58-Ce-137

MAT 5828

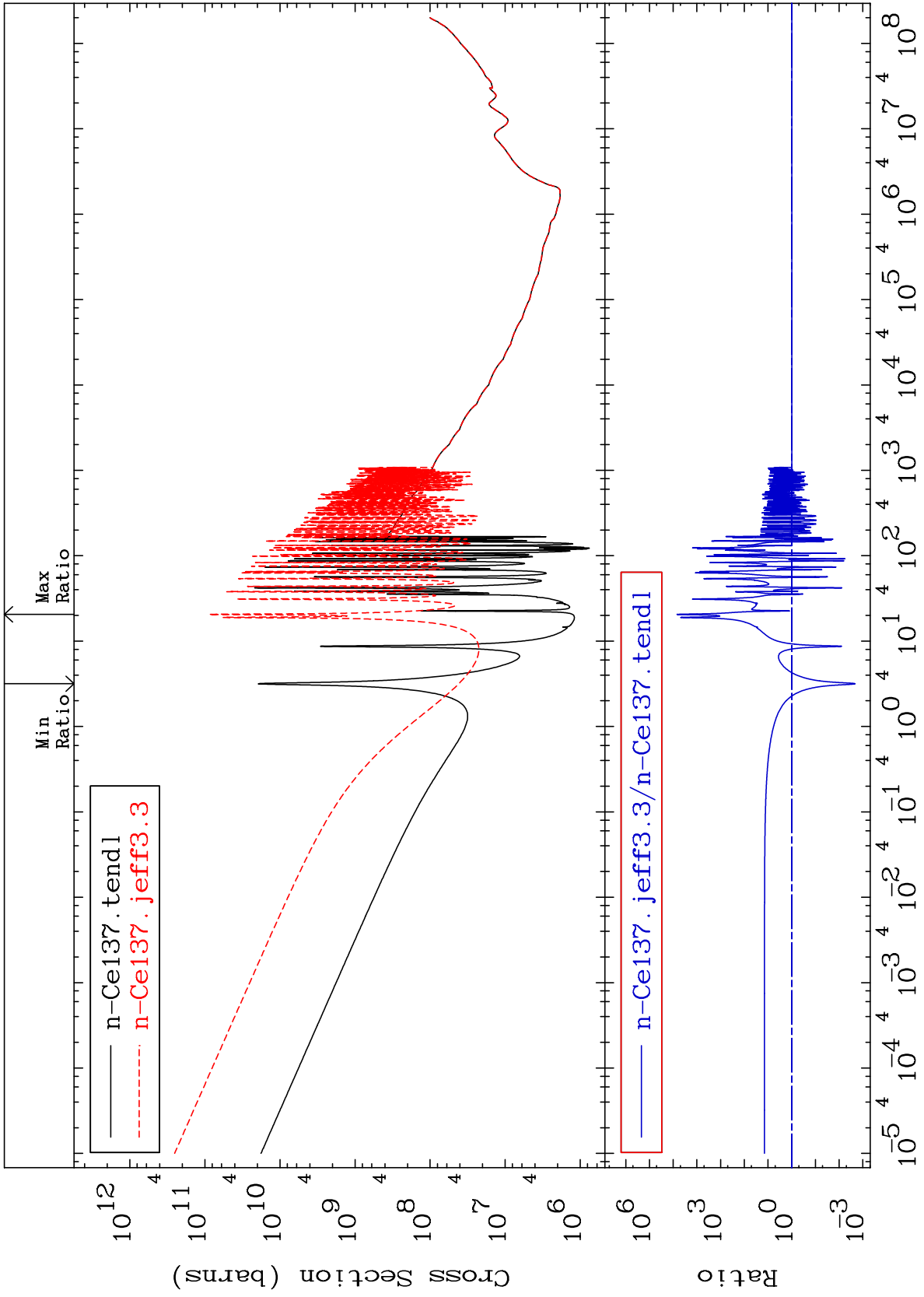
Total photon (eV-barns)

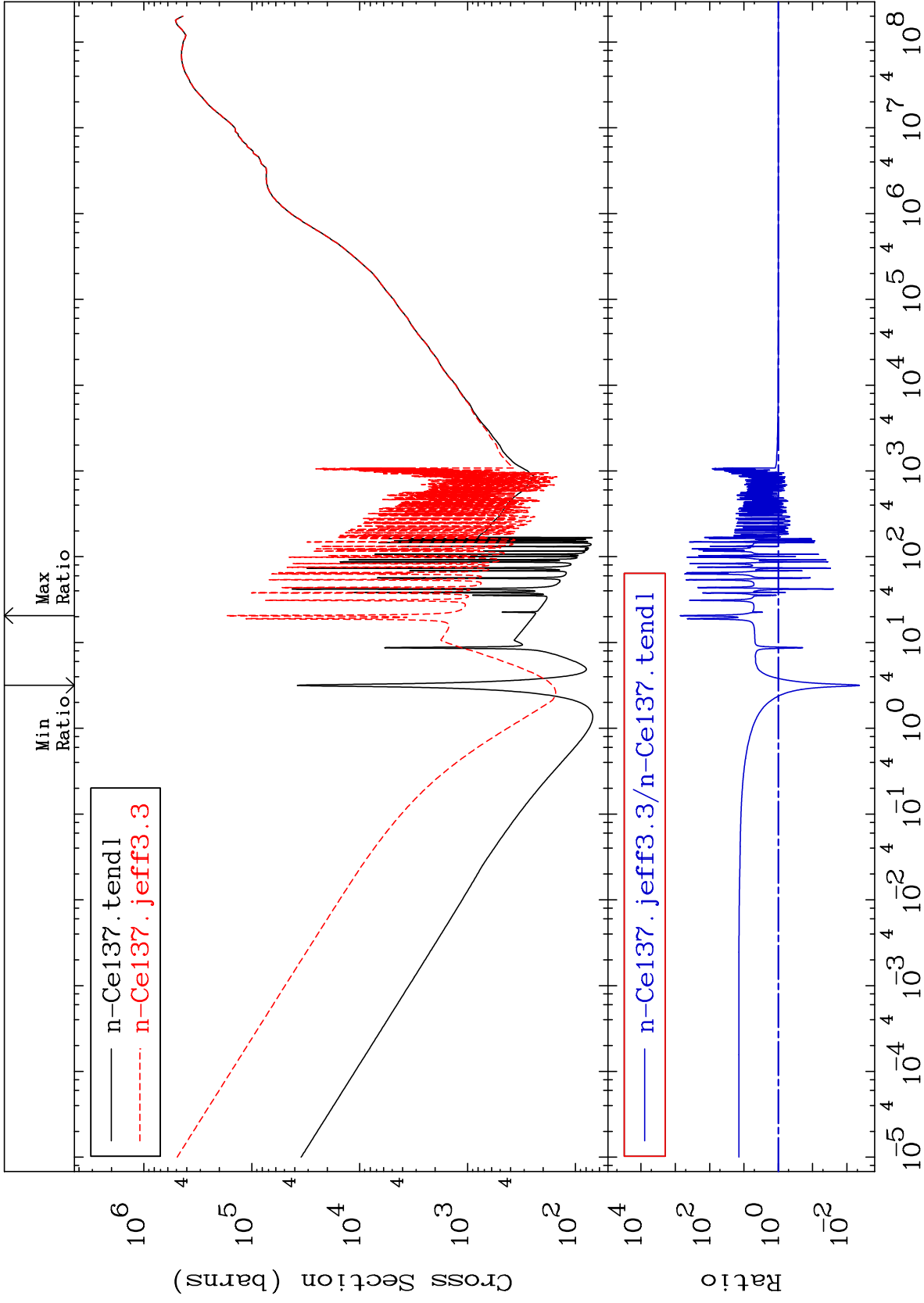
58-Ce-137

-99.79 To 9999. %





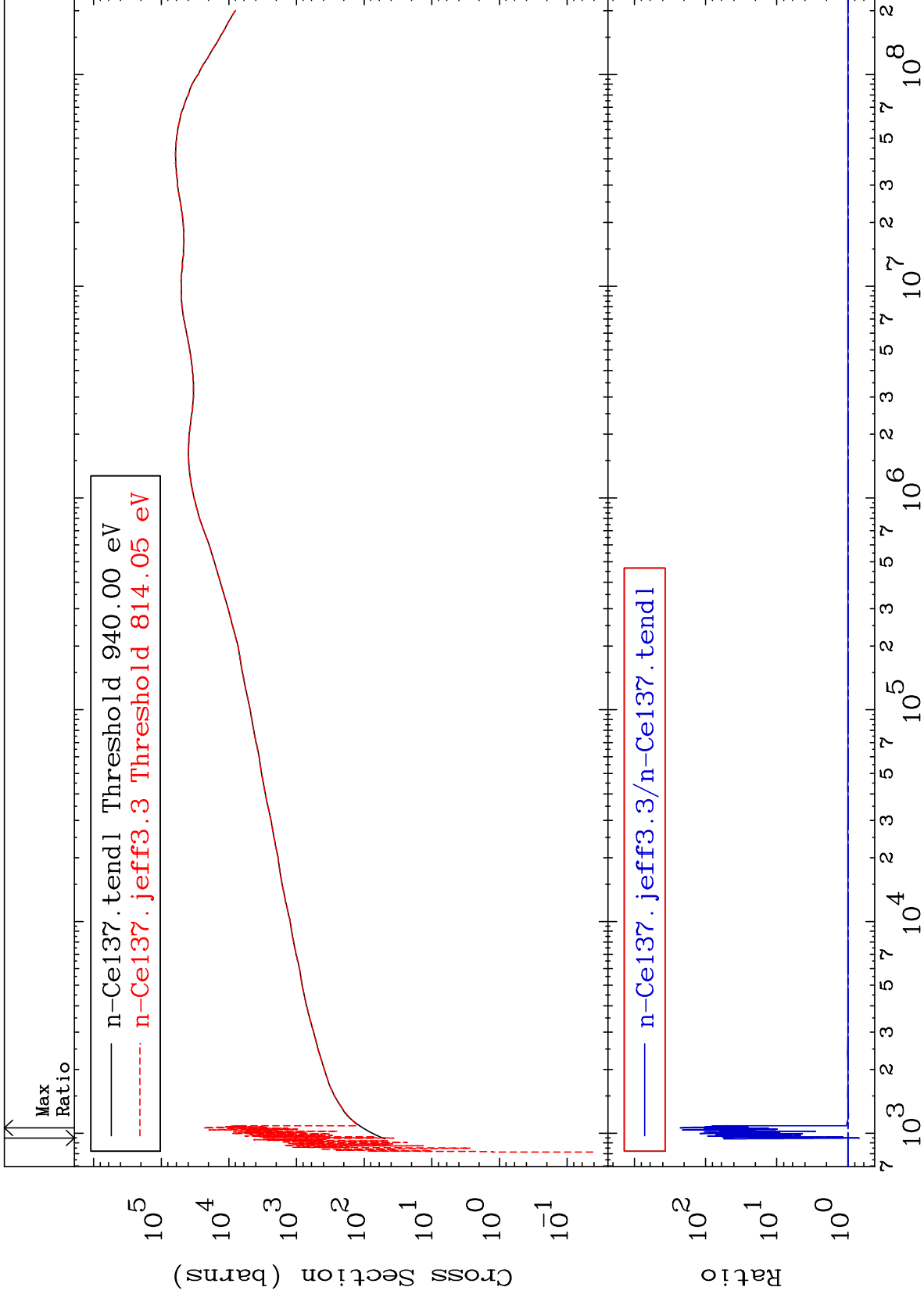




MAT 5828

Dpa elastic (mt2)  
Cross Section

58-Ce-137  
-31.10 To 9999. %



67

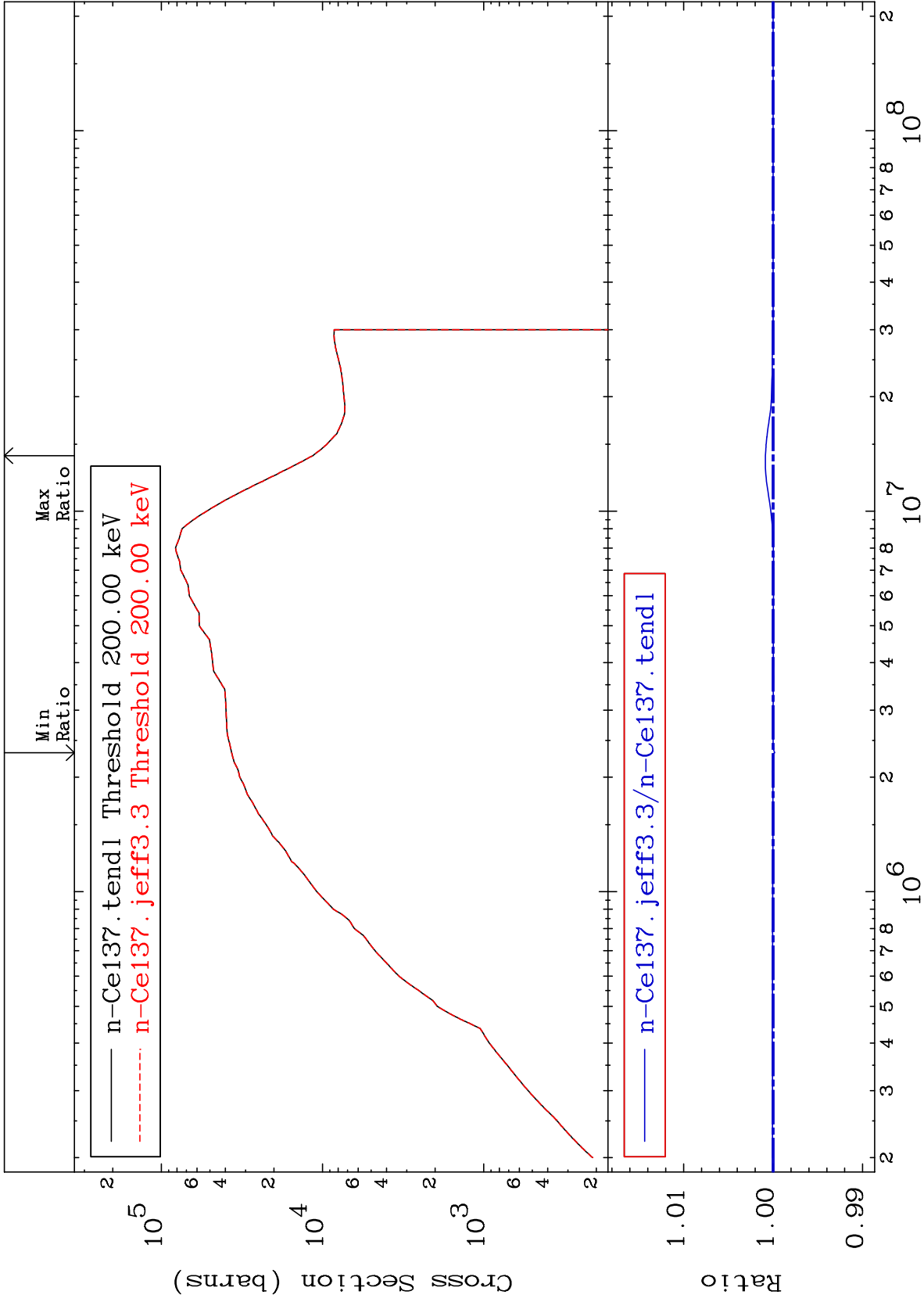
Incident Energy (eV)

58-Ce-137

MAT 5828

Dpa inelastic (mt51-91)  
Cross Section

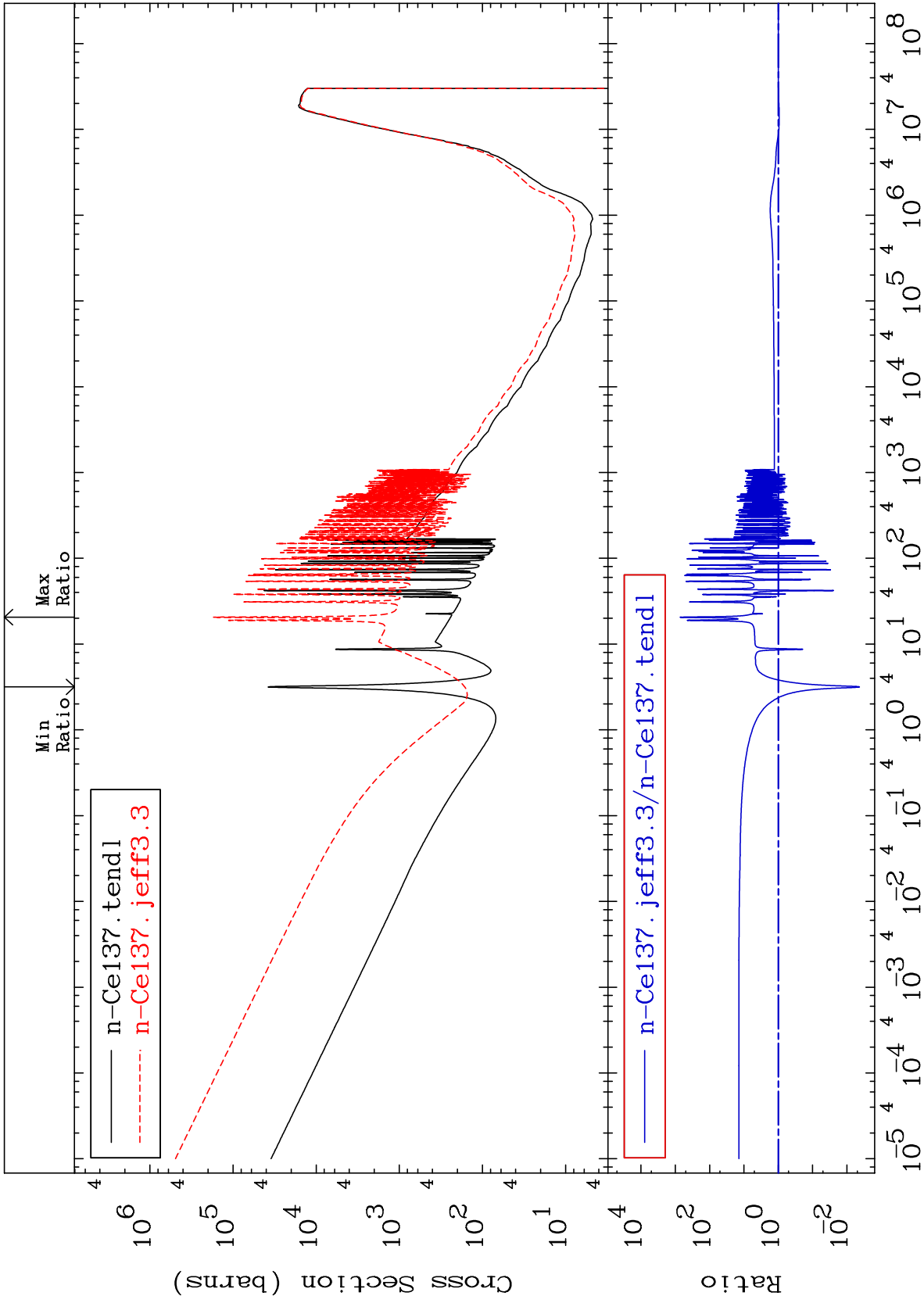
58-Ce-137  
-0.015 To 0.087 %



68

Incident Energy (eV)

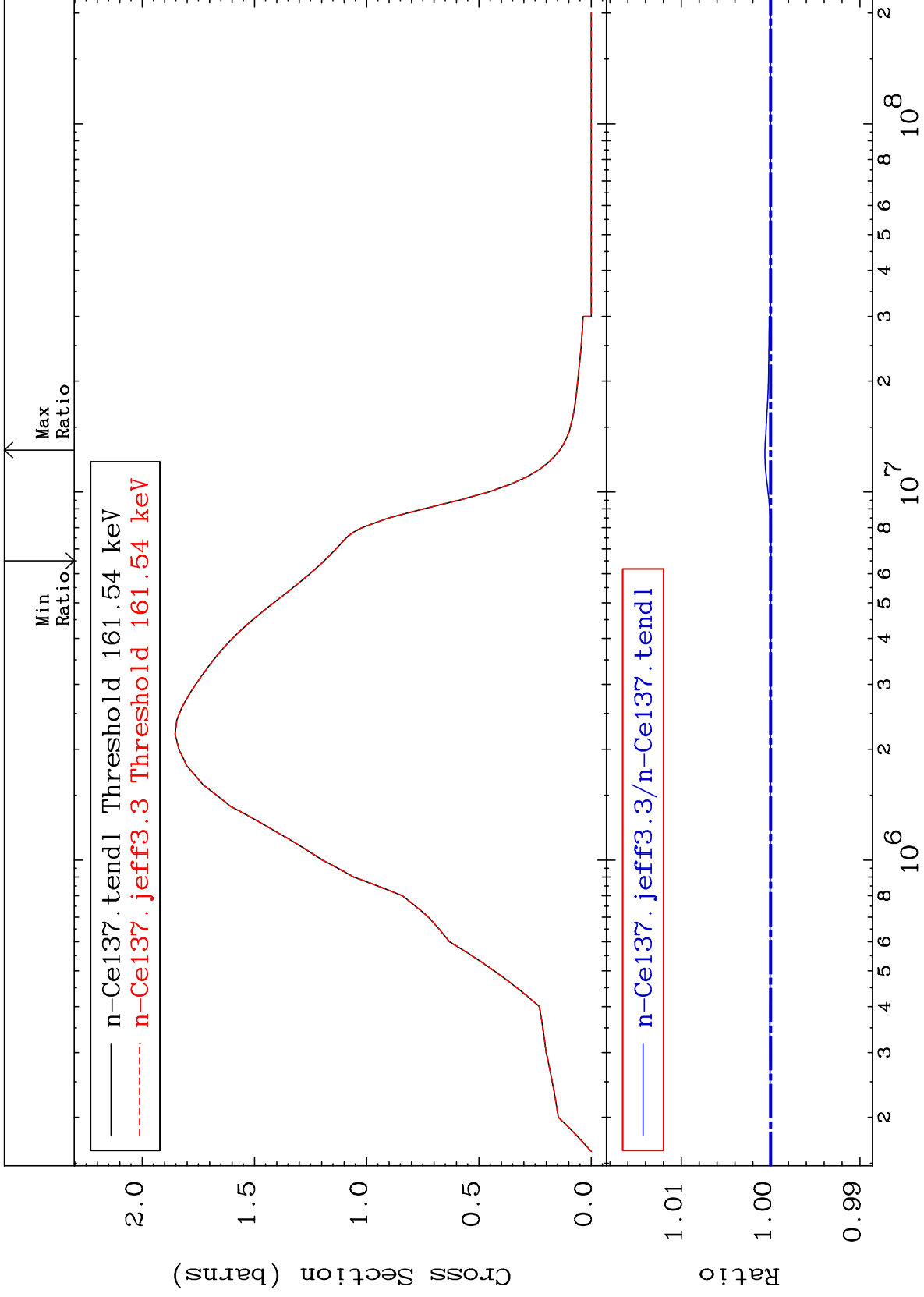
58-Ce-137



MAT 5828

Inelastic:58-Ce-137g  
Radionuclide Production Cross Section -0.004 To 0.064 %

58-Ce-137



70

Incident Energy (eV)

58-Ce-137

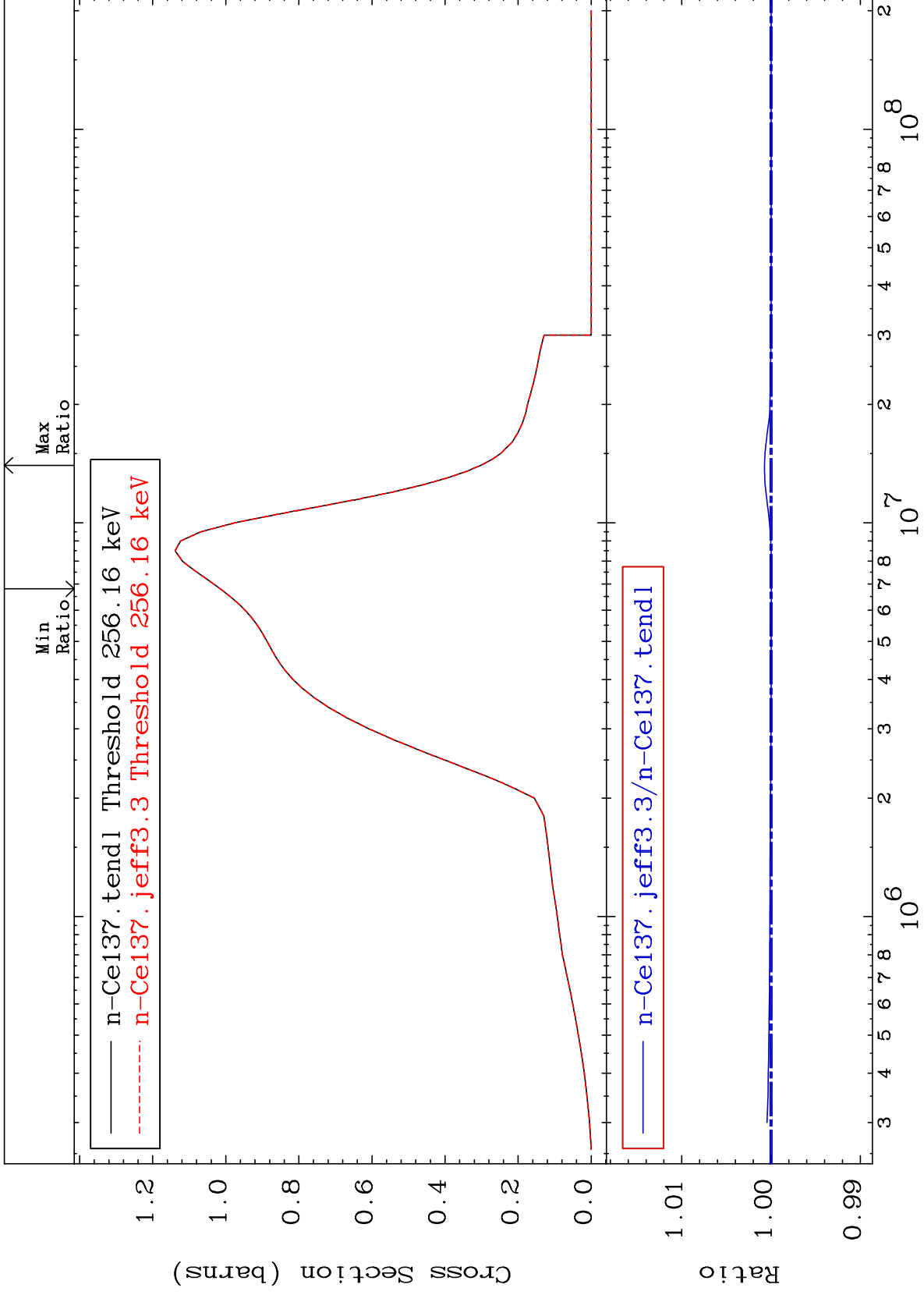
MAT 5828

Inelastic:58-Ce-137m2

58-Ce-137

Radionuclide Production Cross Section

-0.004 To 0.073 %



71

Incident Energy (eV)

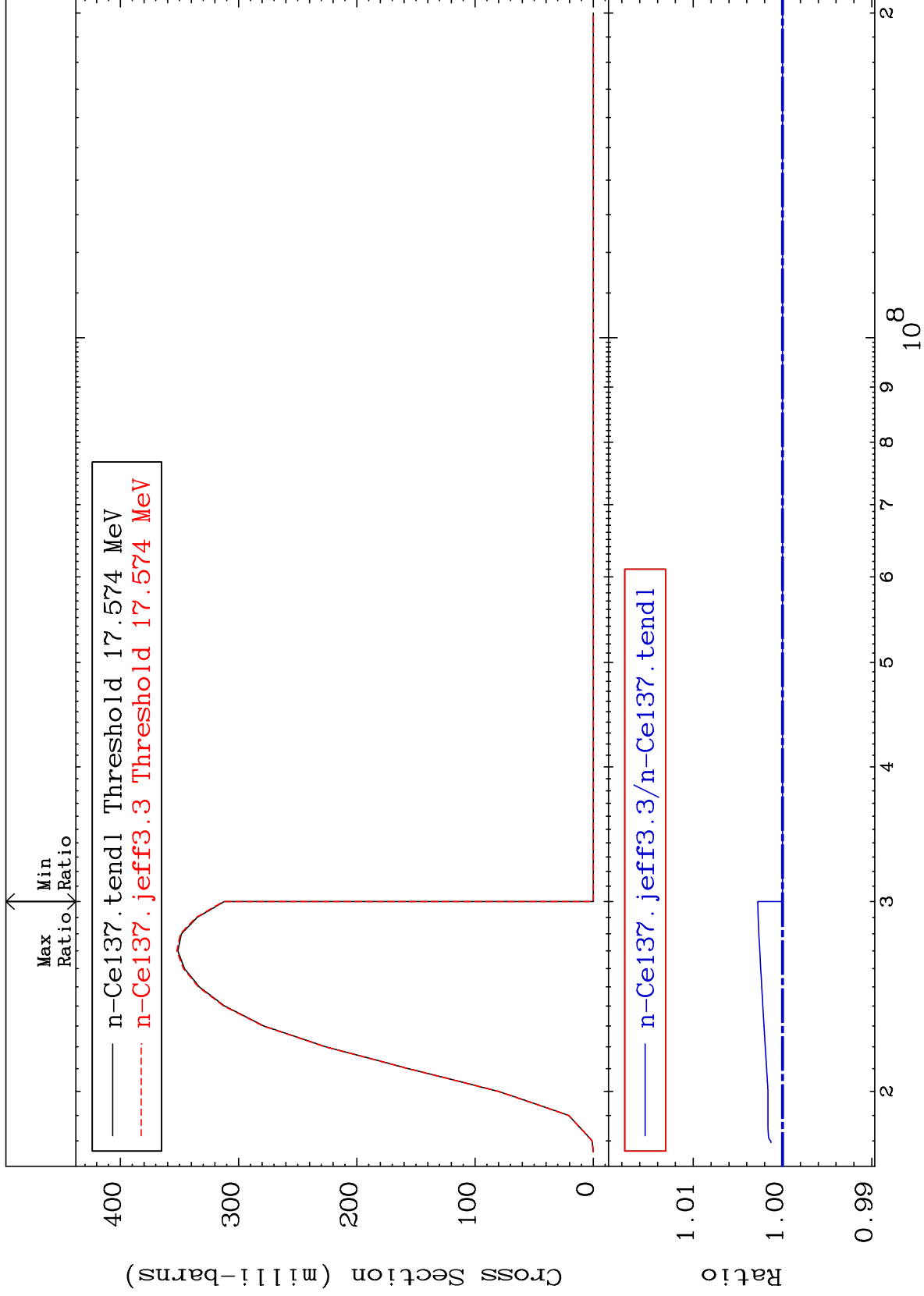
58-Ce-137

MAT 5828

(n,3n):58-Ce-135g

58-Ce-137

Radionuclide Production Cross Section 0.000 To 0.277 %



72

Incident Energy (eV)

58-Ce-137

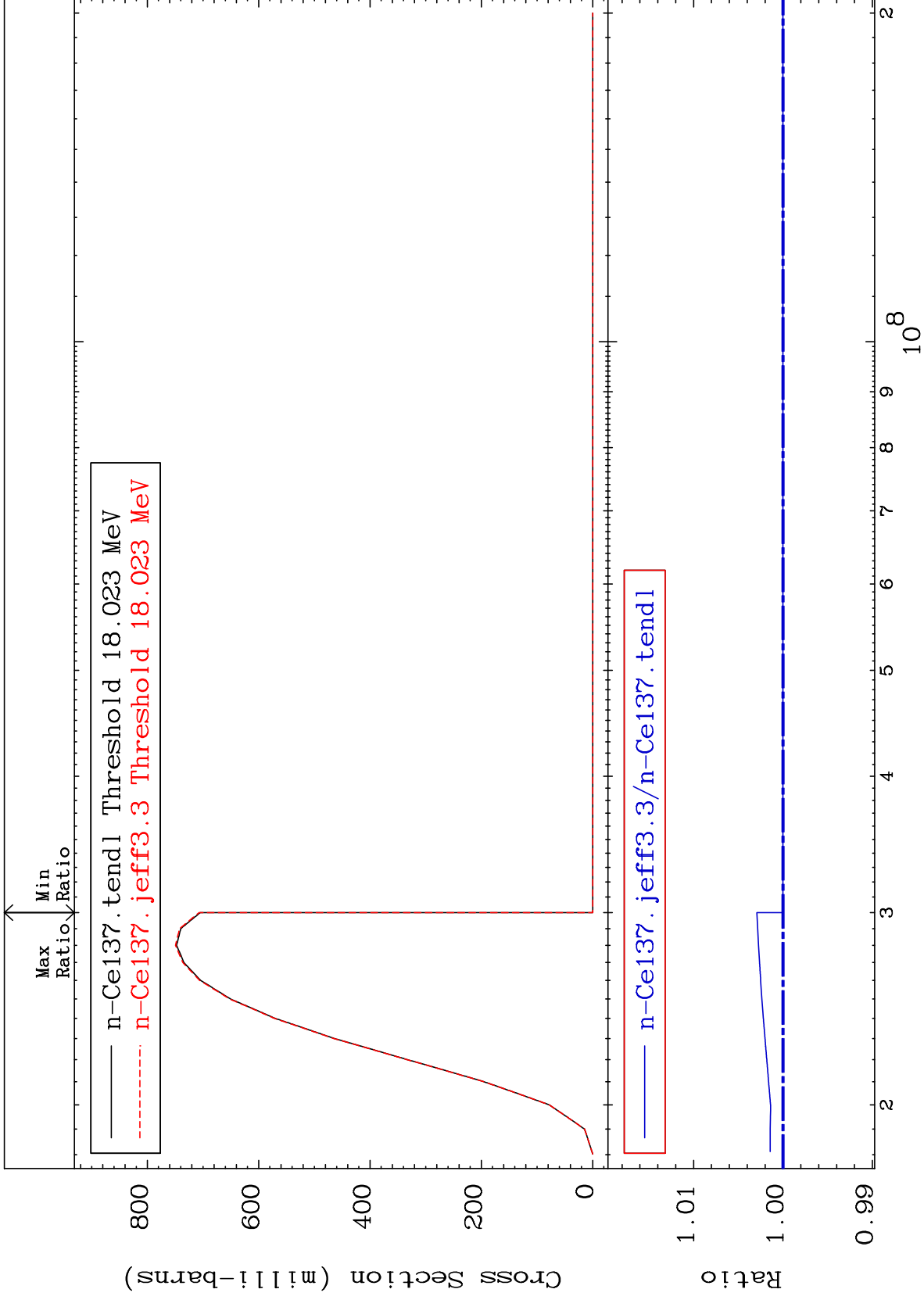


MAT 5828

(n,3n):58-Ce-135m4

58-Ce-137

Radionuclide Production Cross Section 0.000 To 0.293 %



73

Incident Energy (eV)

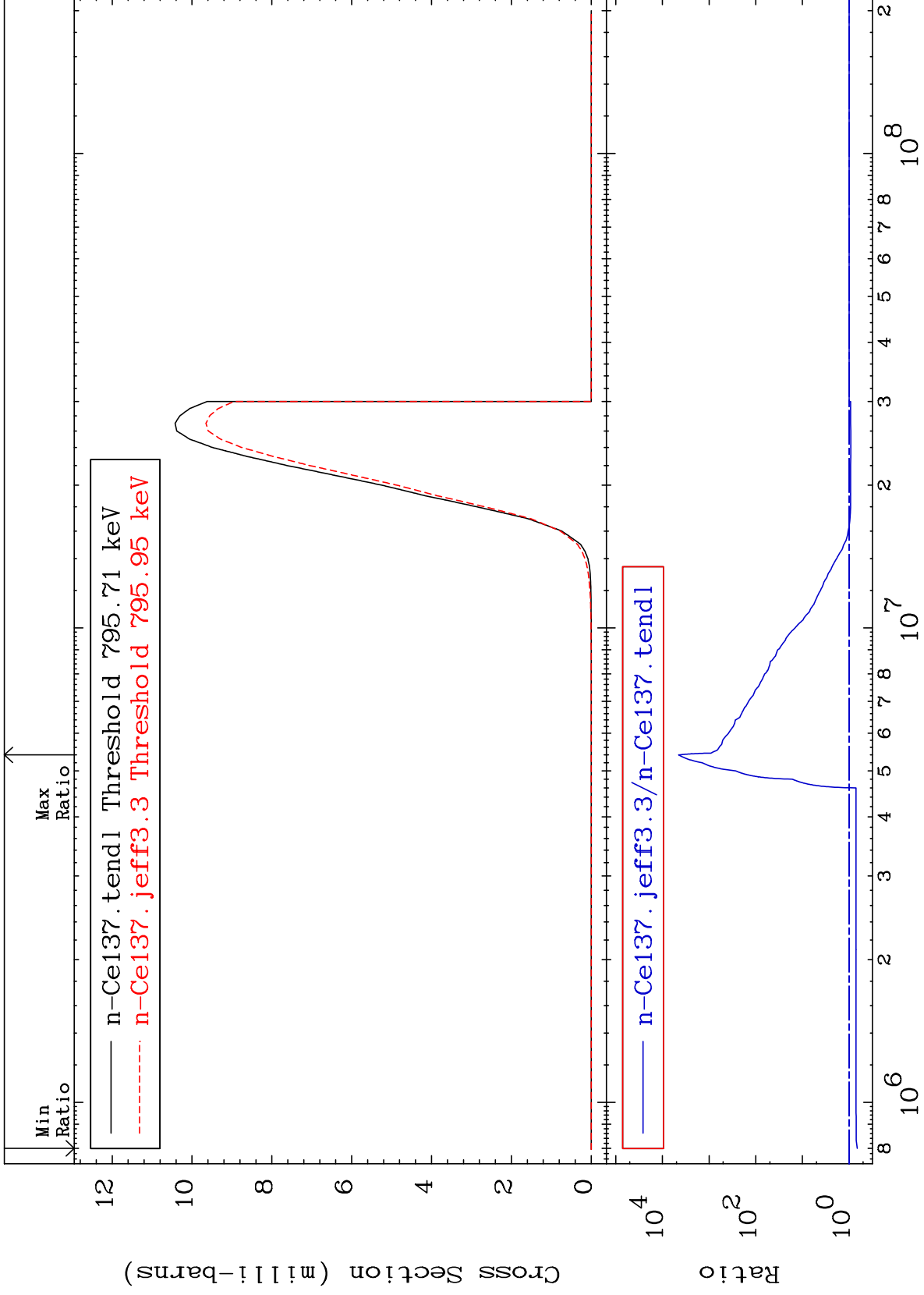
58-Ce-137

MAT 5828

(n, n')  $\alpha$ :56-Ba-133g

58-Ce-137

Radionuclide Production Cross Section -33.06 To 9999. %



74

Incident Energy (eV)

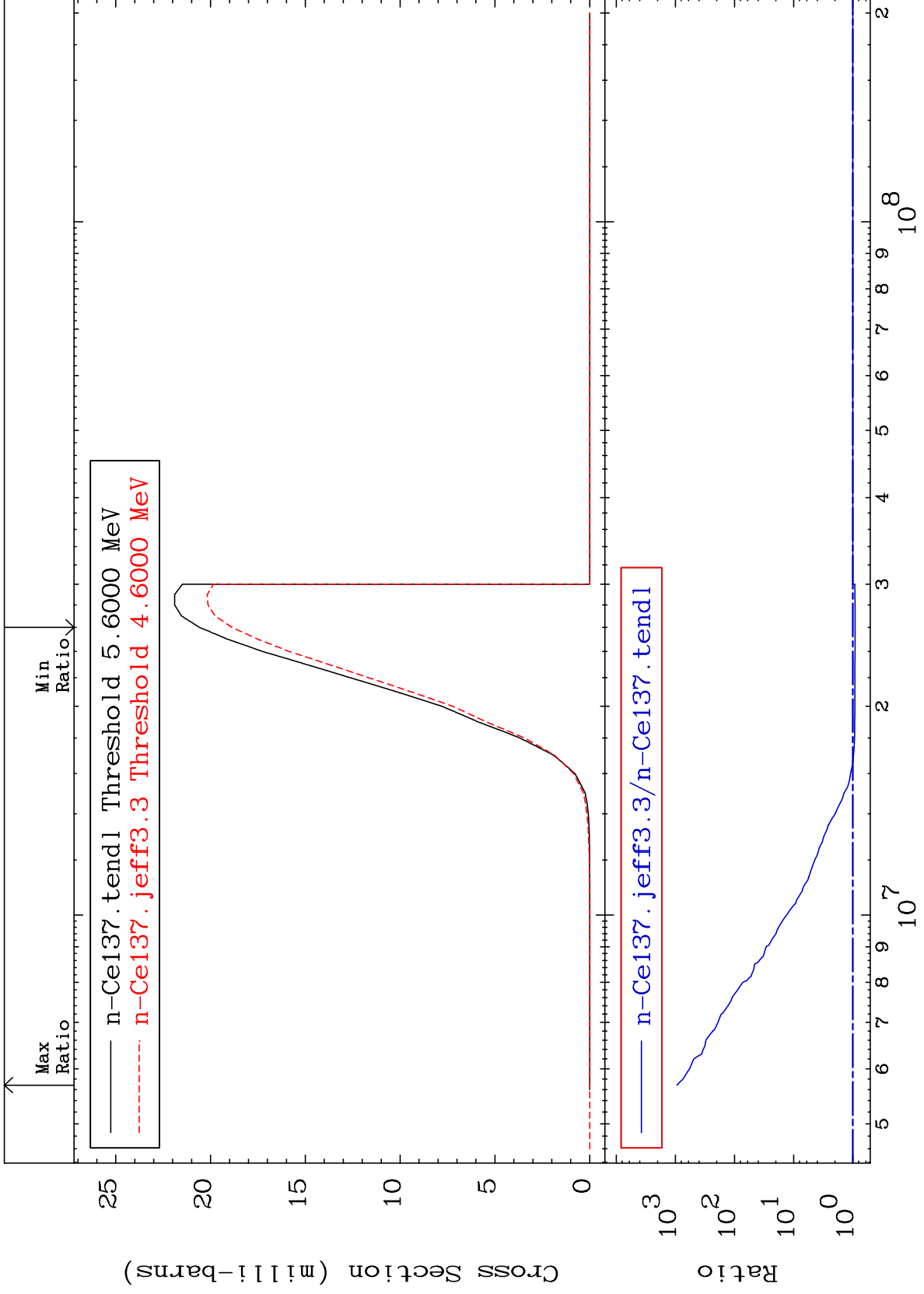
58-Ce-137

MAT 5828

(n, n')  $\alpha$ :56-Ba-133m2

58-Ce-137

Radionuclide Production Cross Section -8.345 To 9999. %



75

Incident Energy (eV)

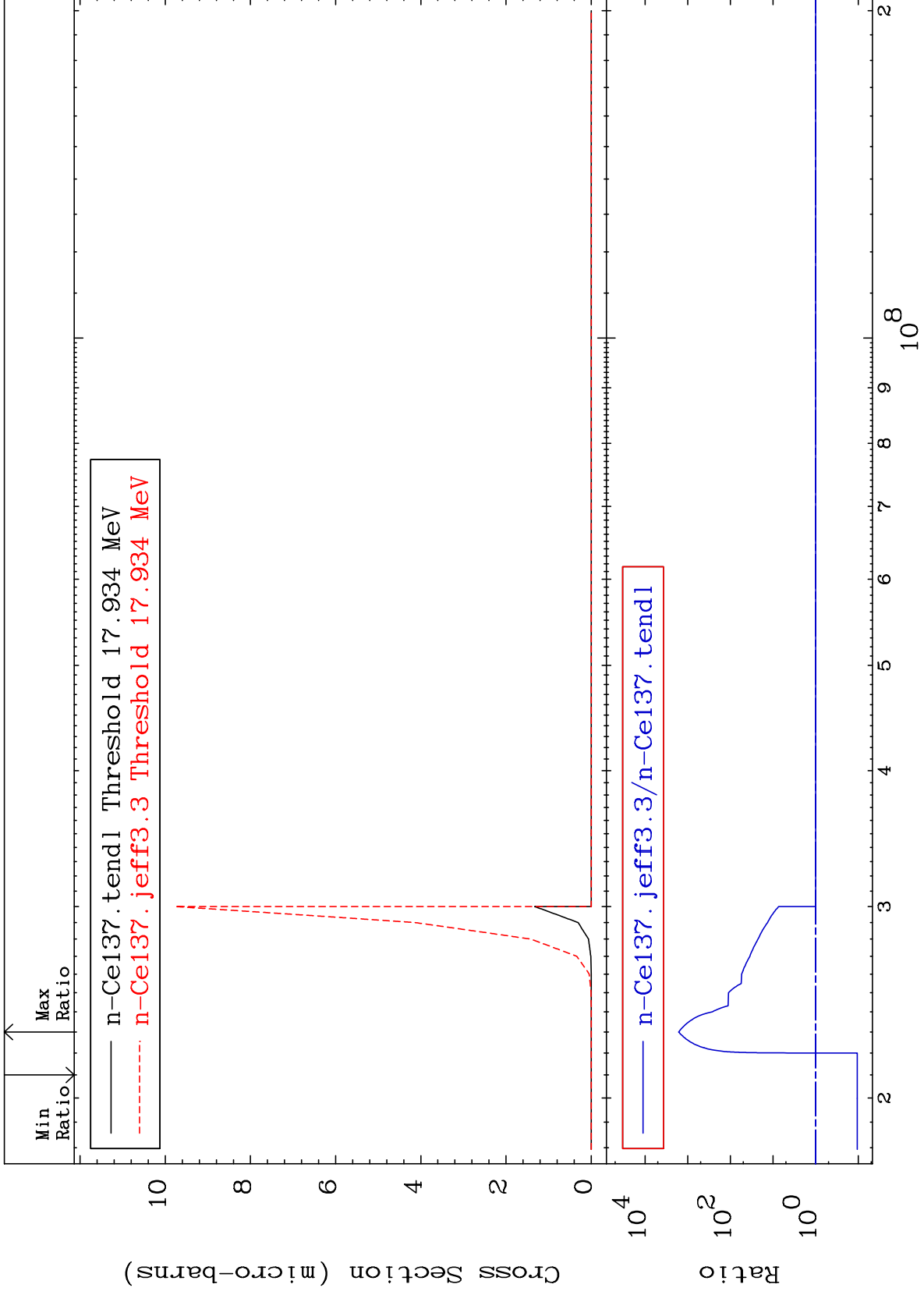
58-Ce-137

MAT 5828

(n,3n)  $\alpha$ :56-Ba-131g

58-Ce-137

Radionuclide Production Cross Section -89.37 To 9999. %

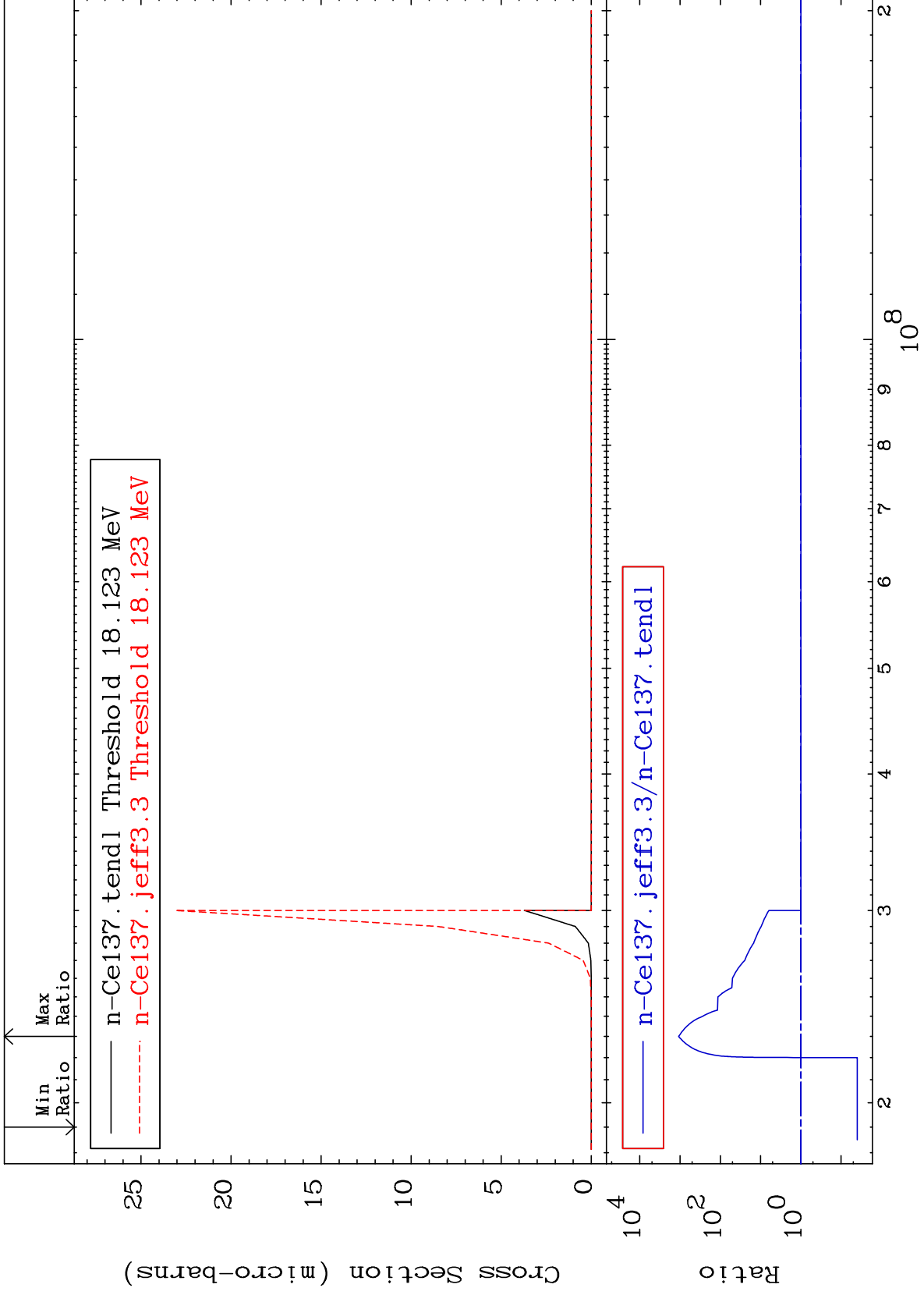


MAT 5828

(n, 3n)  $\alpha$ : 56-Ba-131m2

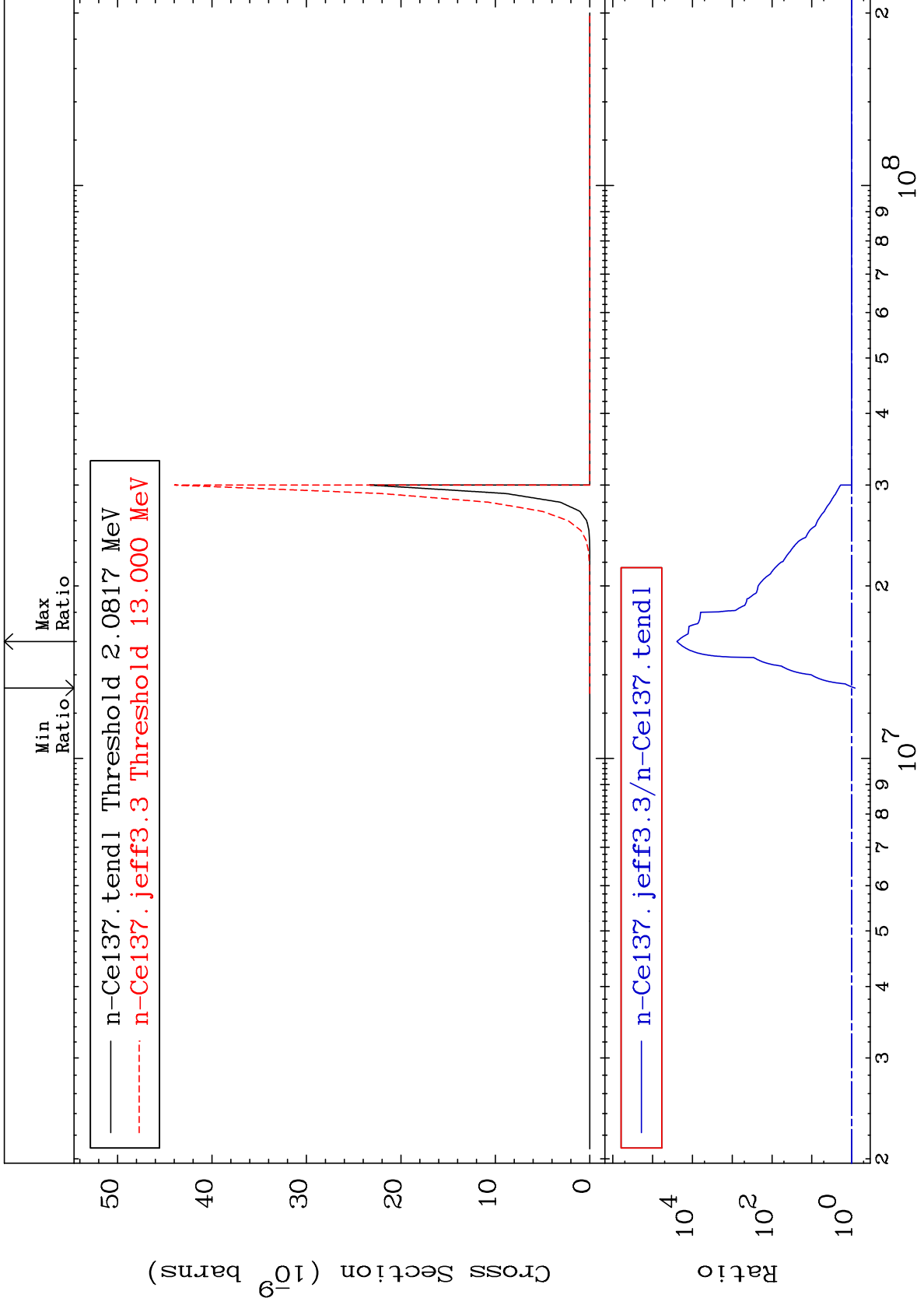
58-Ce-137

Radionuclide Production Cross Section -96.03 To 9999. %



MAT 5828

(n, n') 2α:54-Xe-129g 58-Ce-137  
Radionuclide Production Cross Section -18.39 To 9999. %



78

Incident Energy (eV)

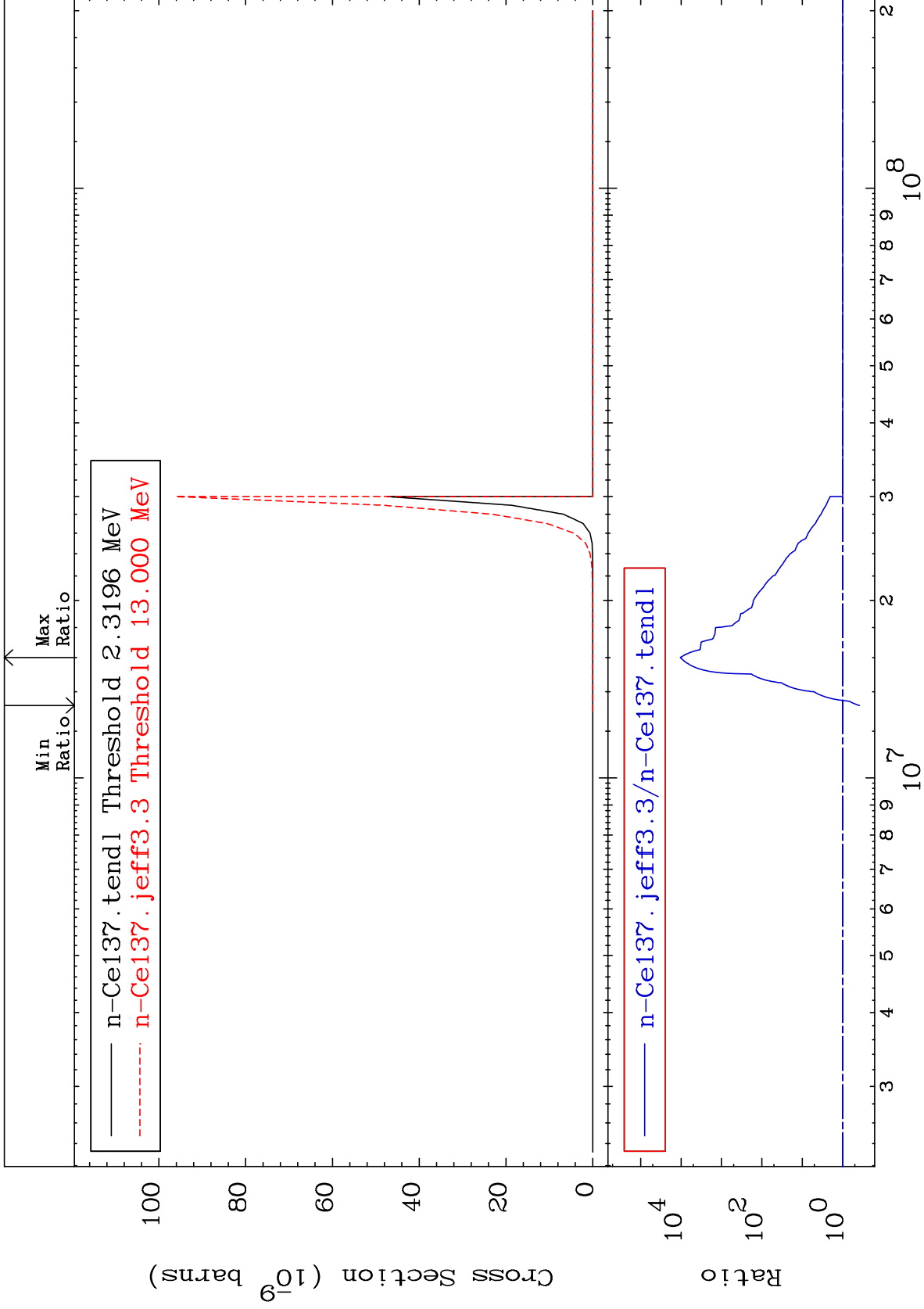
58-Ce-137

MAT 5828

(n, n') 2α:54-Xe-129m2

58-Ce-137

Radionuclide Production Cross Section -61.60 To 9999. %



79

Incident Energy (eV)

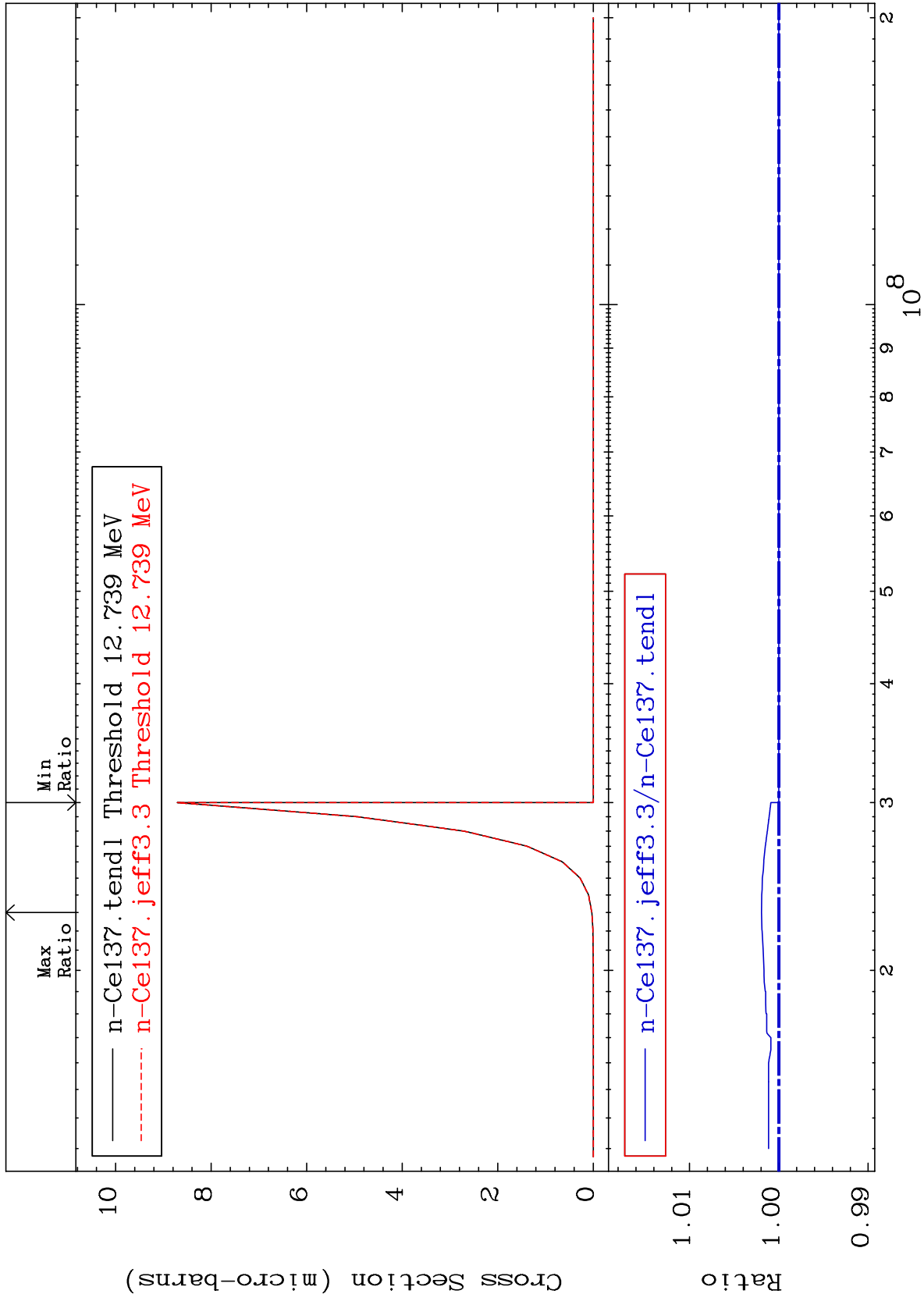
58-Ce-137

MAT 5828

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

58-Ce-137

Radionuclide Production Cross Section 0.000 To 0.195 %



80

Incident Energy (eV)

58-Ce-137

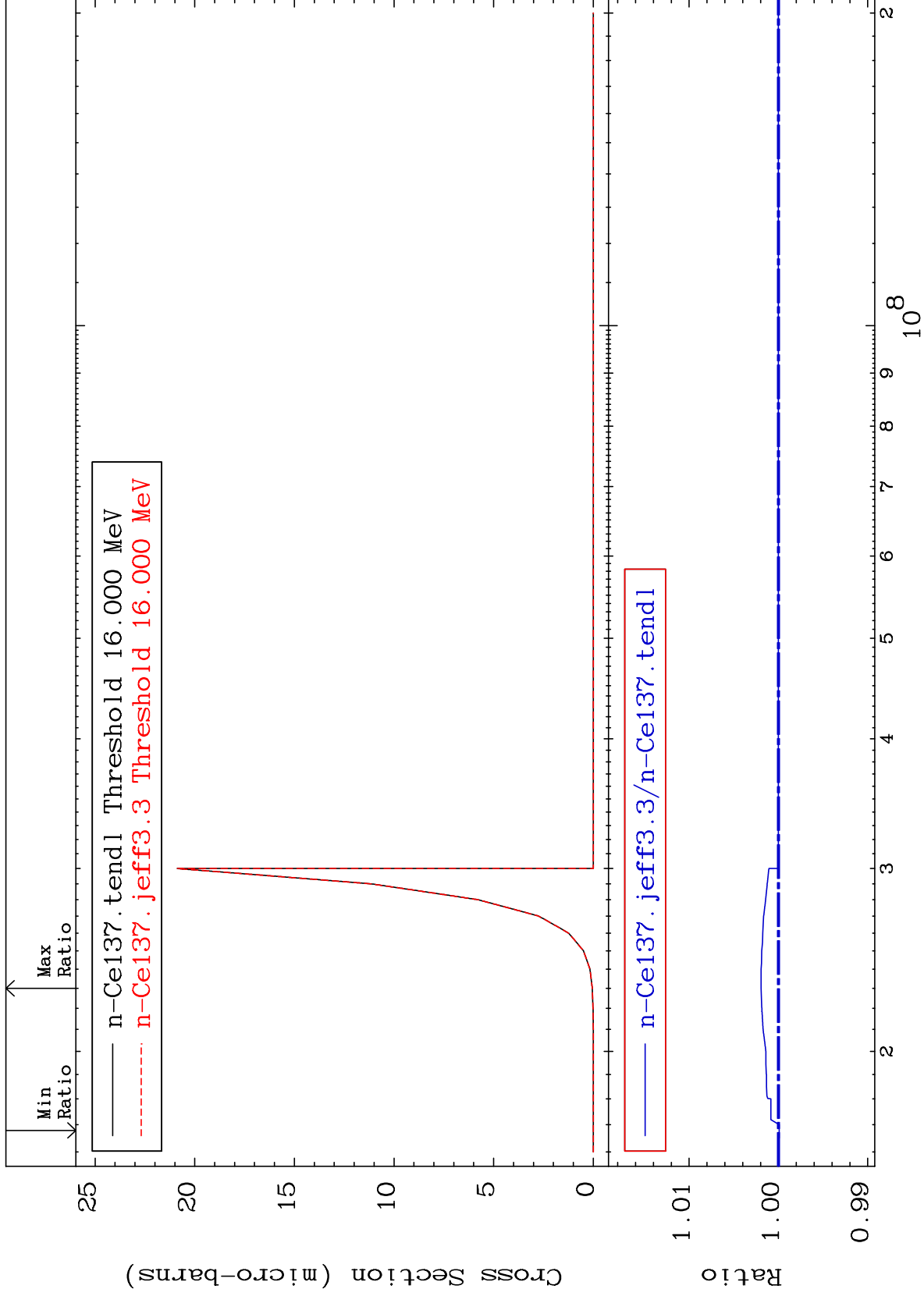


MAT 5828

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

58-Ce-137

Radionuclide Production Cross Section -0.009 To 0.195 %

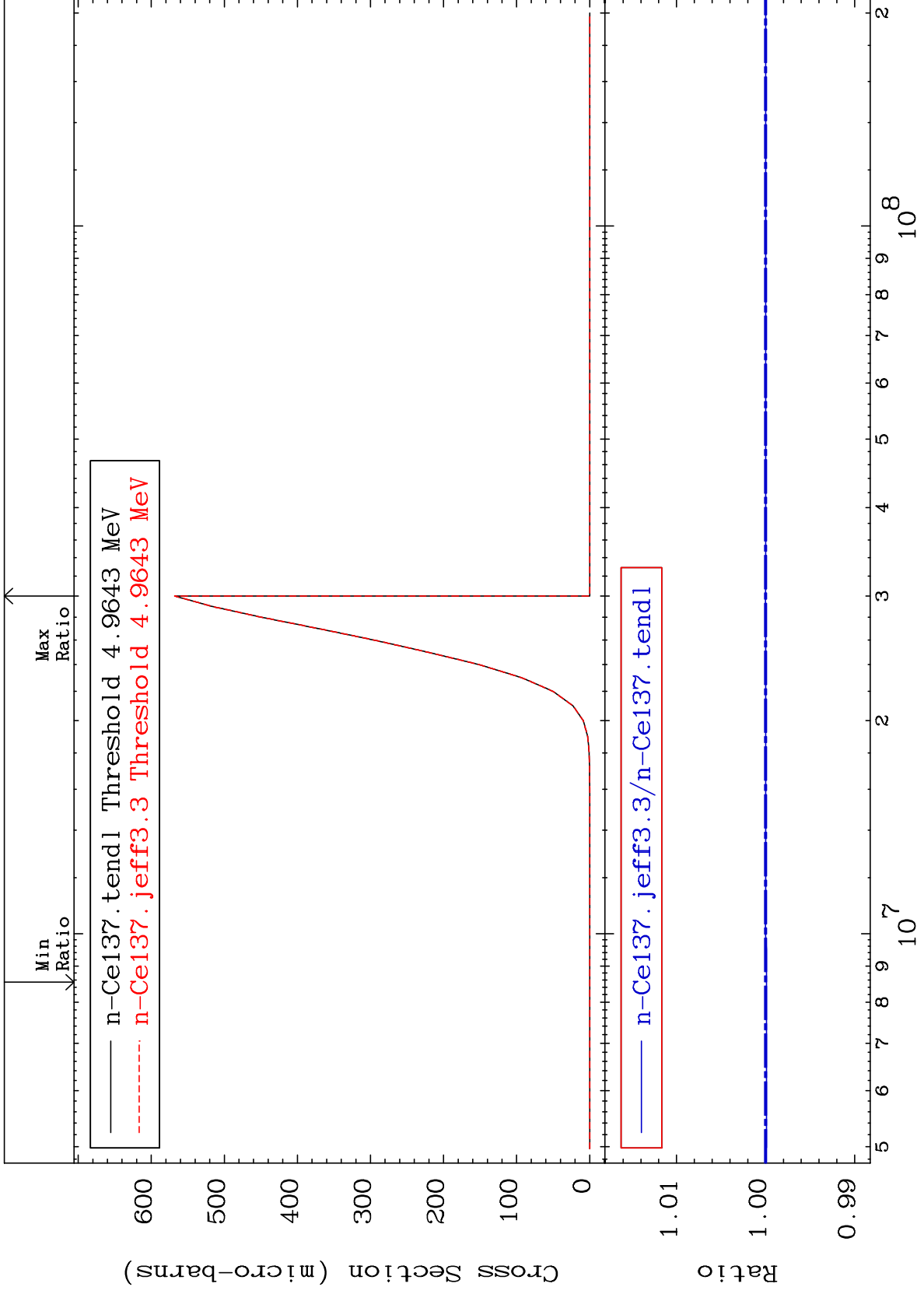


MAT 5828

(n,He-3):56-Ba-135g

58-Ce-137

Radionuclide Production Cross Section -0.011 To 0.002 %



82

Incident Energy (eV)

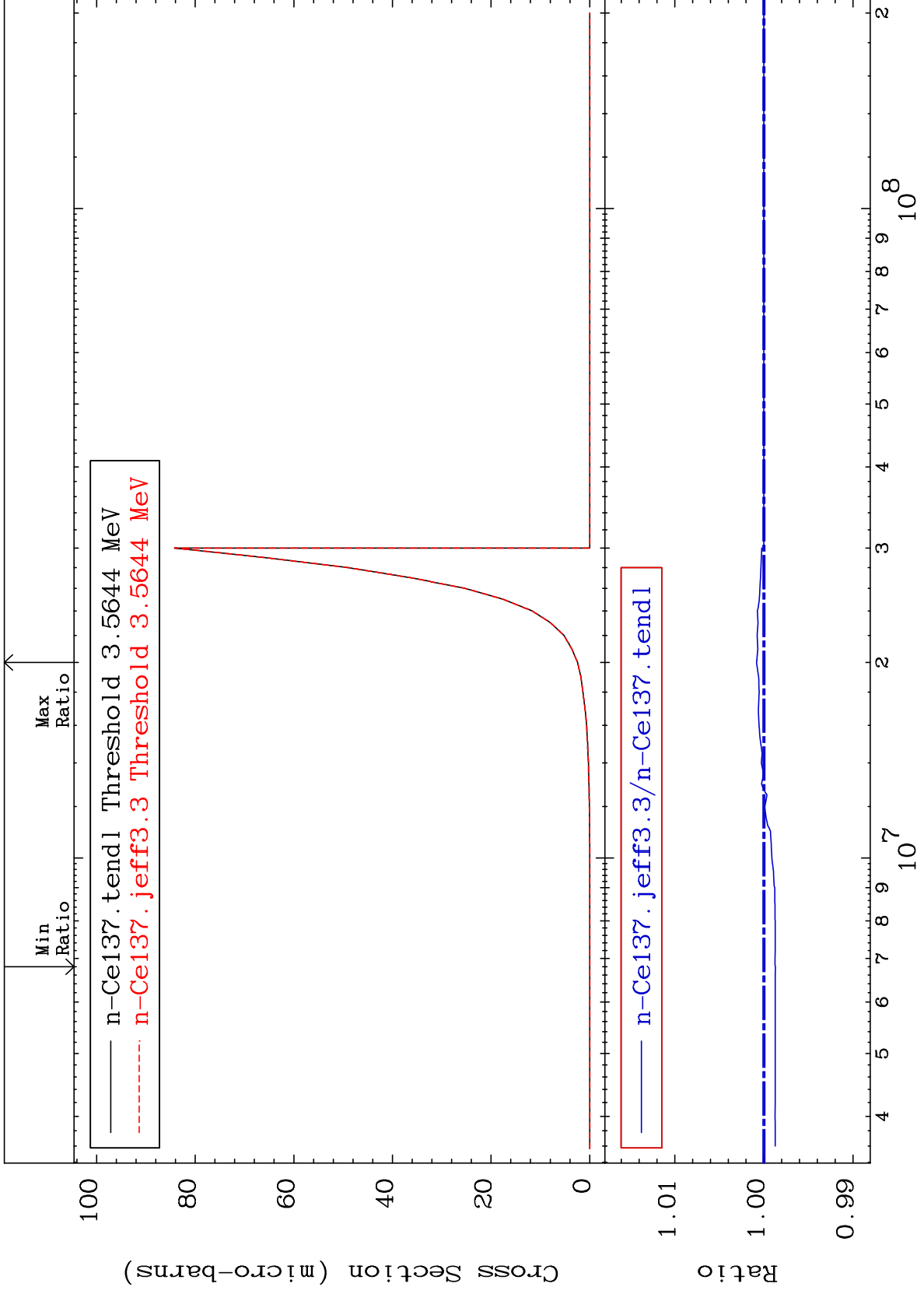
58-Ce-137

MAT 5828

(n,2p):56-Ba-136g

58-Ce-137

Radionuclide Production Cross Section -0.129 To 0.082 %

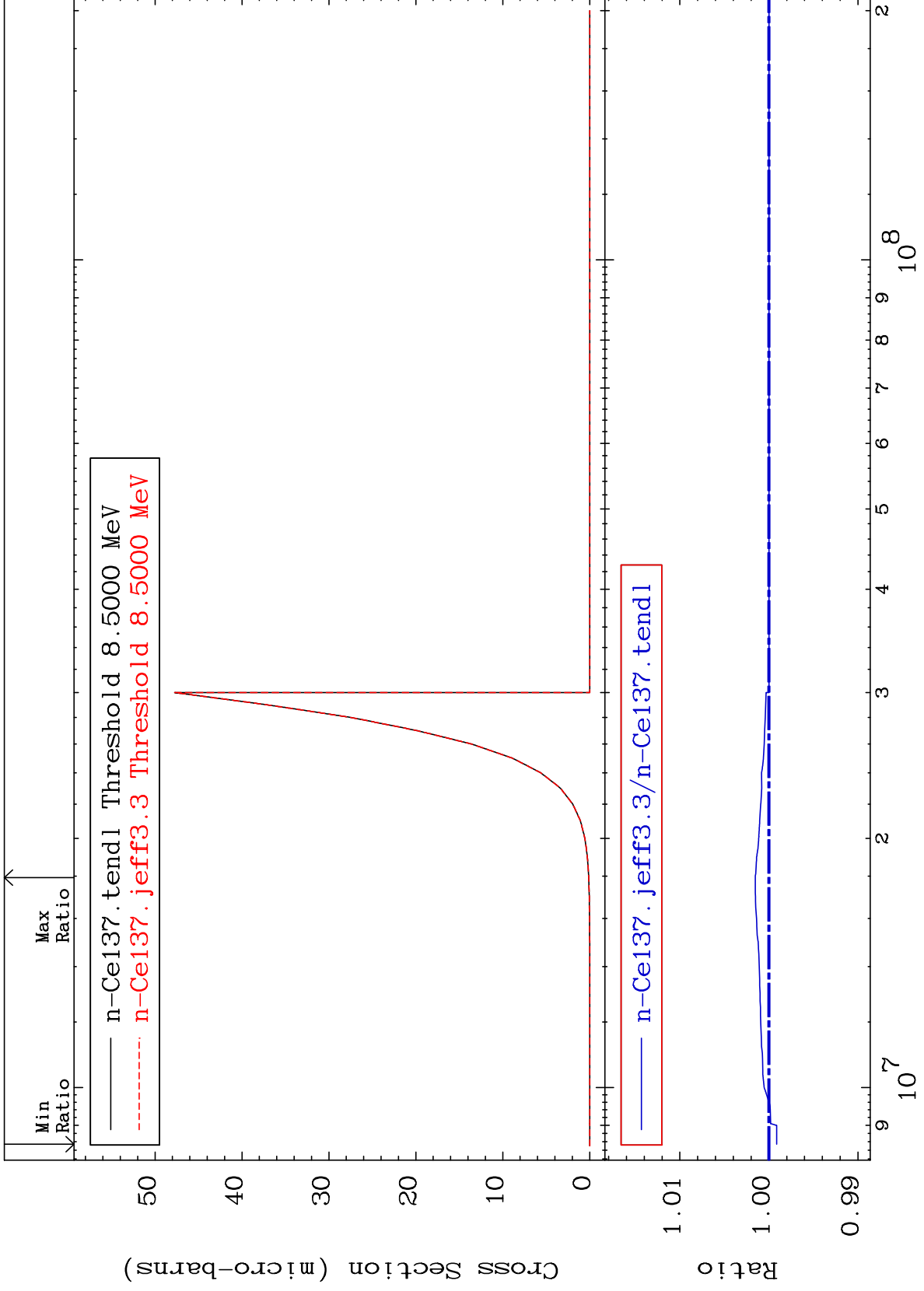


MAT 5828

(n,2p):56-Ba-136m5

58-Ce-137

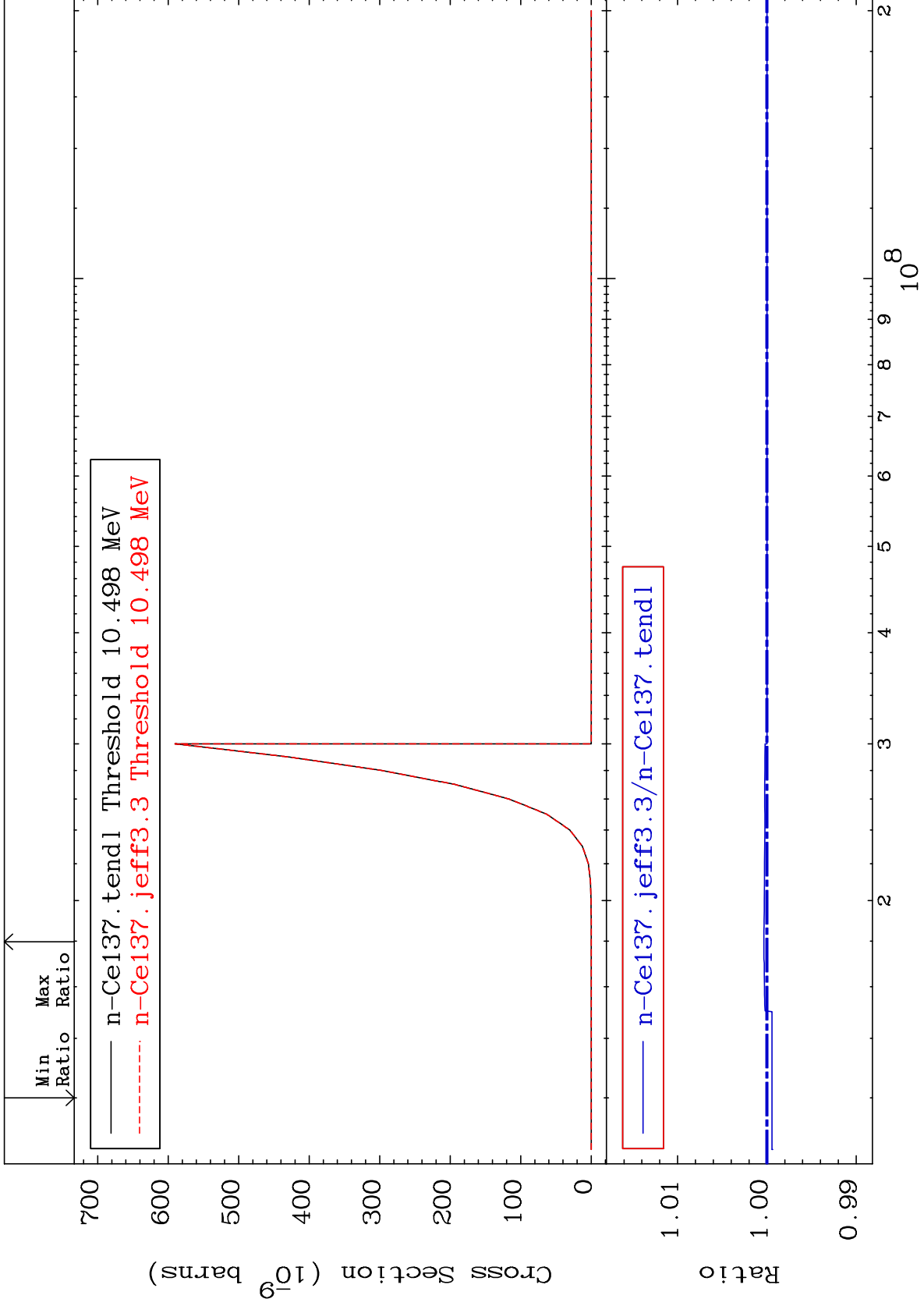
Radionuclide Production Cross Section -0.087 To 0.153 %



84

Incident Energy (eV)

58-Ce-137



MAT 5828

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

58-Ce-137

Radionuclide Production Cross Section -0.056 To 0.026 %

