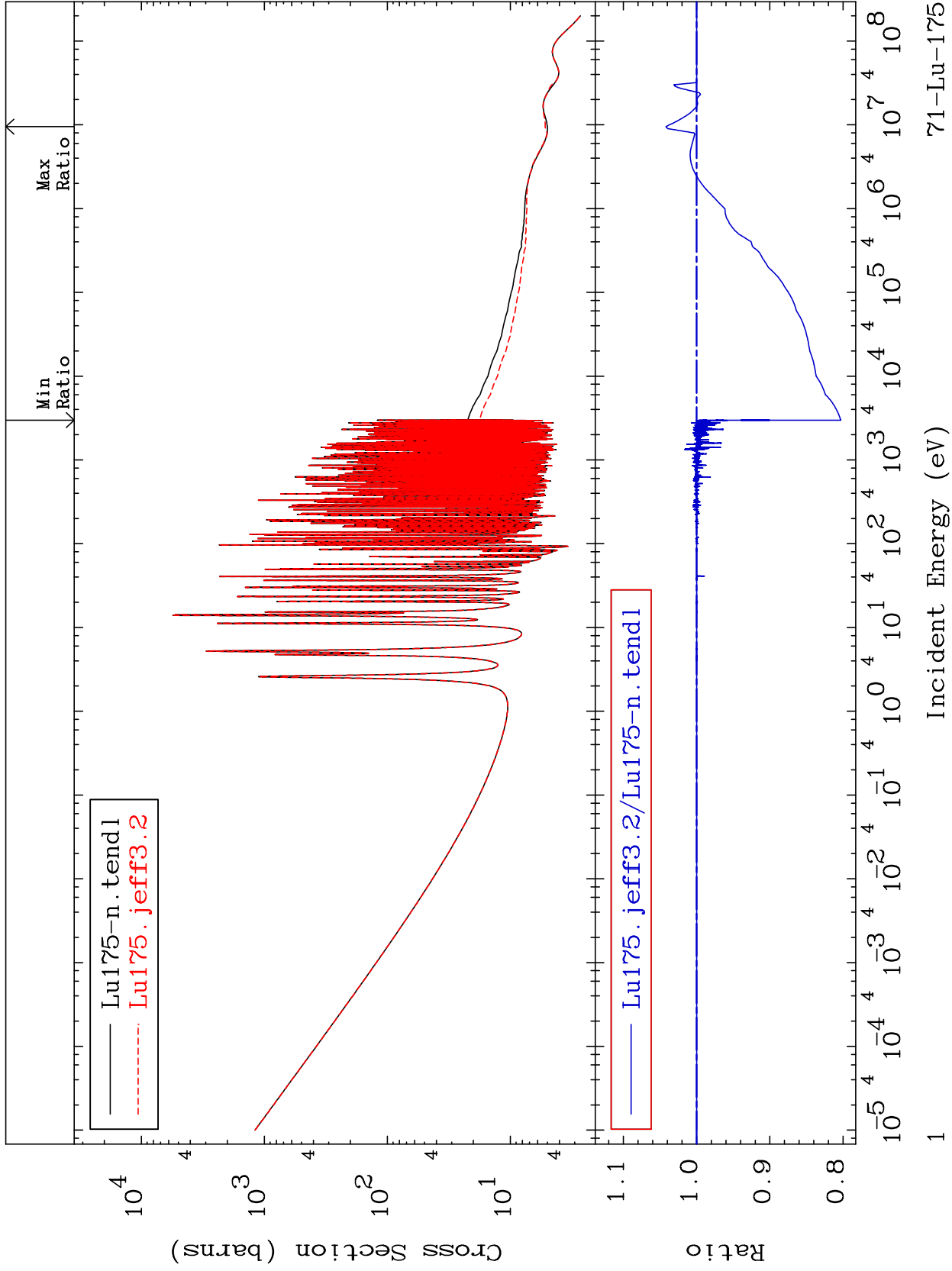


MAT 7125

Total  
Cross Section

71-Lu-175  
-19.69 To 4.188 %



71-Lu-175

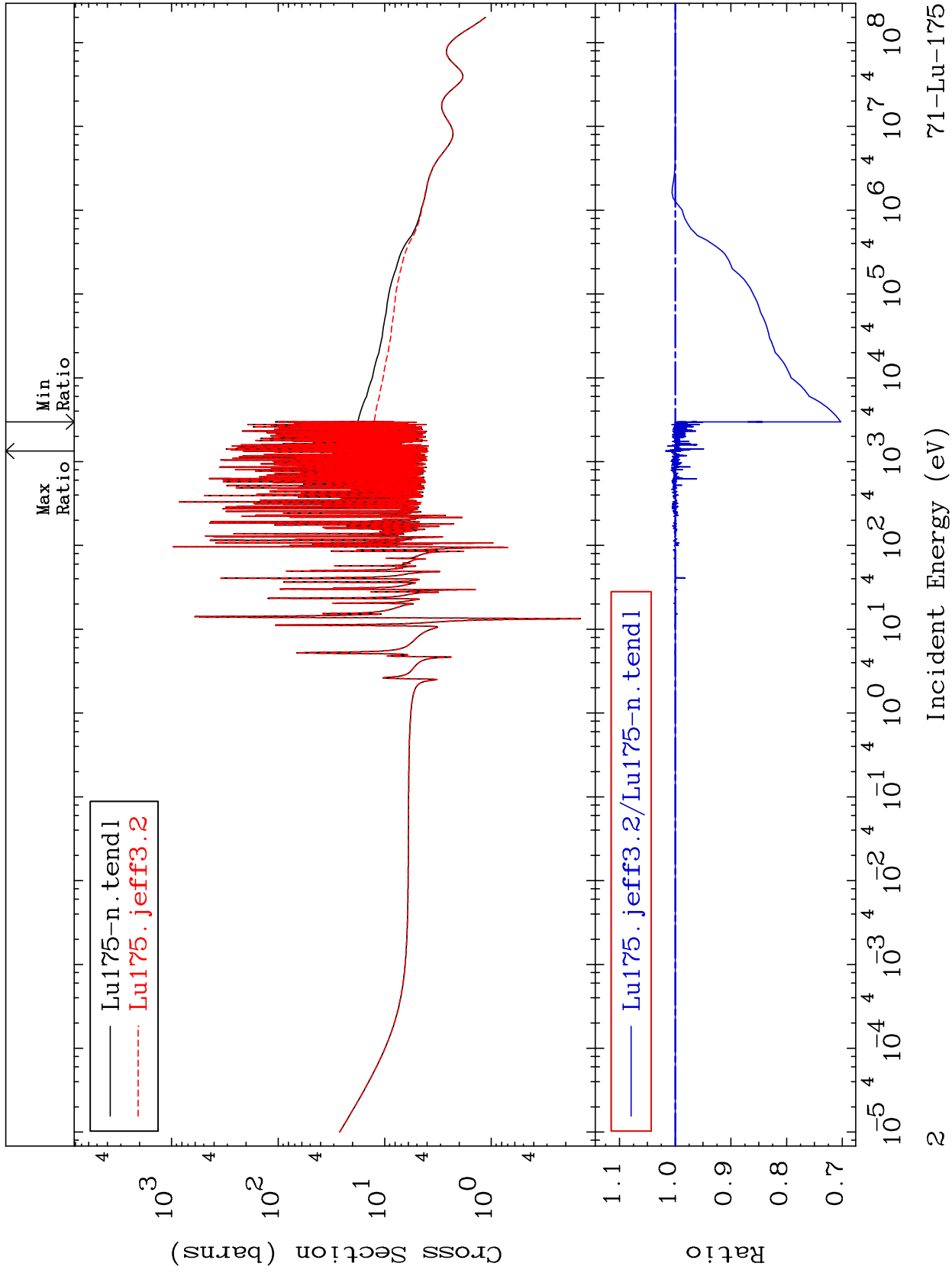
MAT 7125

Elastic

Cross Section

71-Lu-175

-29.74 To 1.666 %

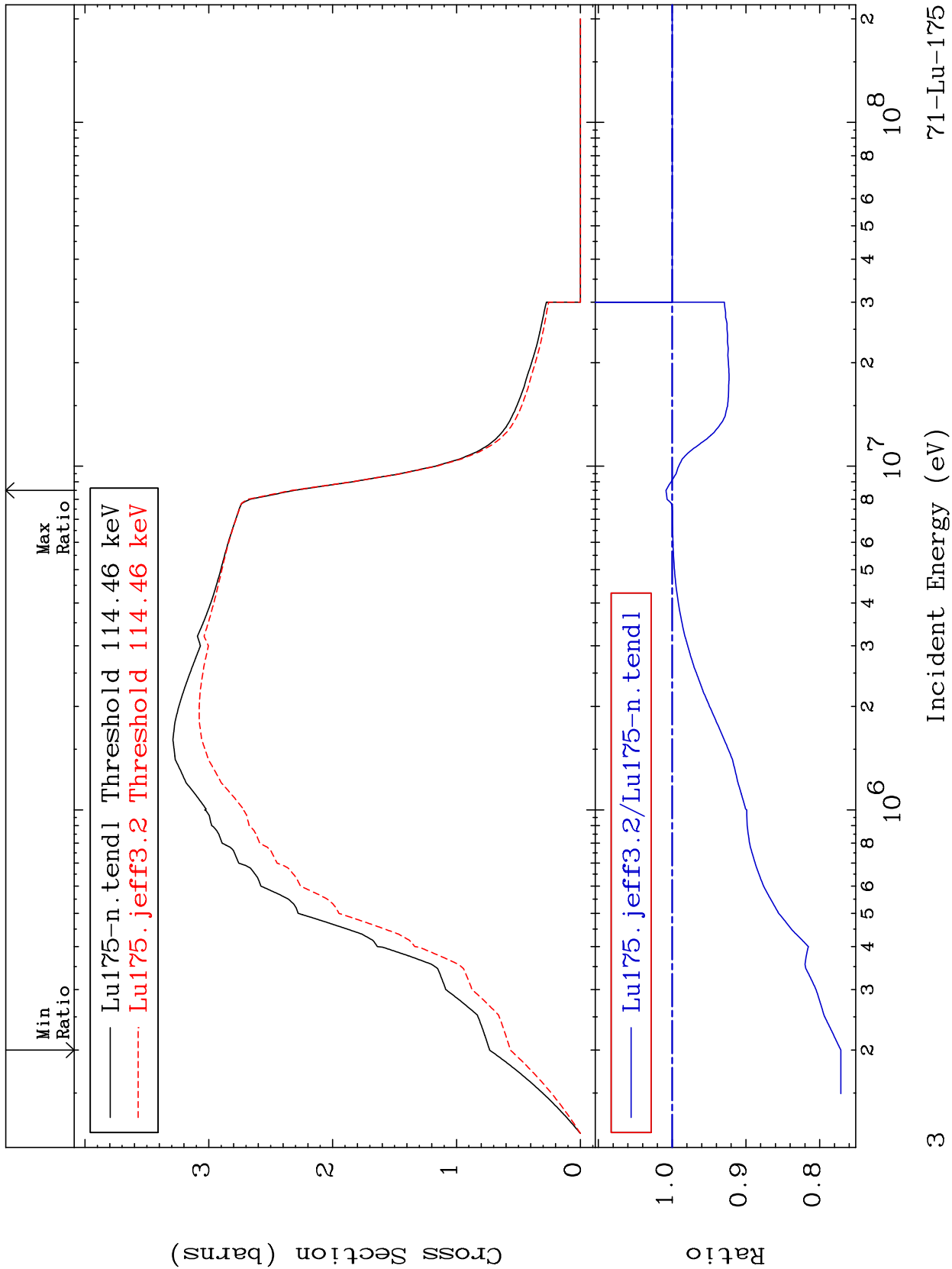


2

Incident Energy (eV)

71-Lu-175

MAT 7125 71-Lu-175  
-22.87 To 0.838 %





MAT 7125

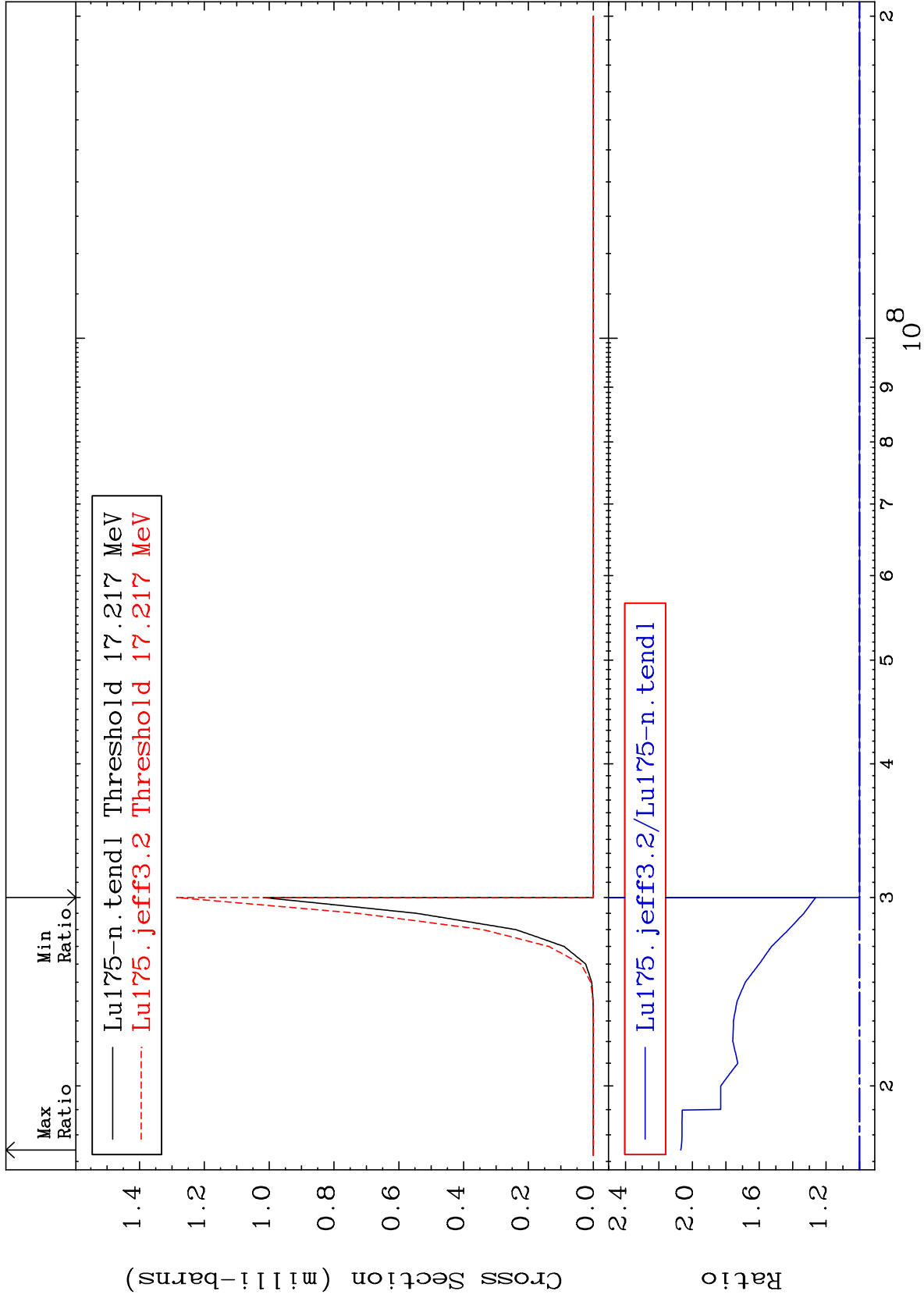
(n,2n) d

<sup>71</sup>Lu-175

Cross Section

0.000

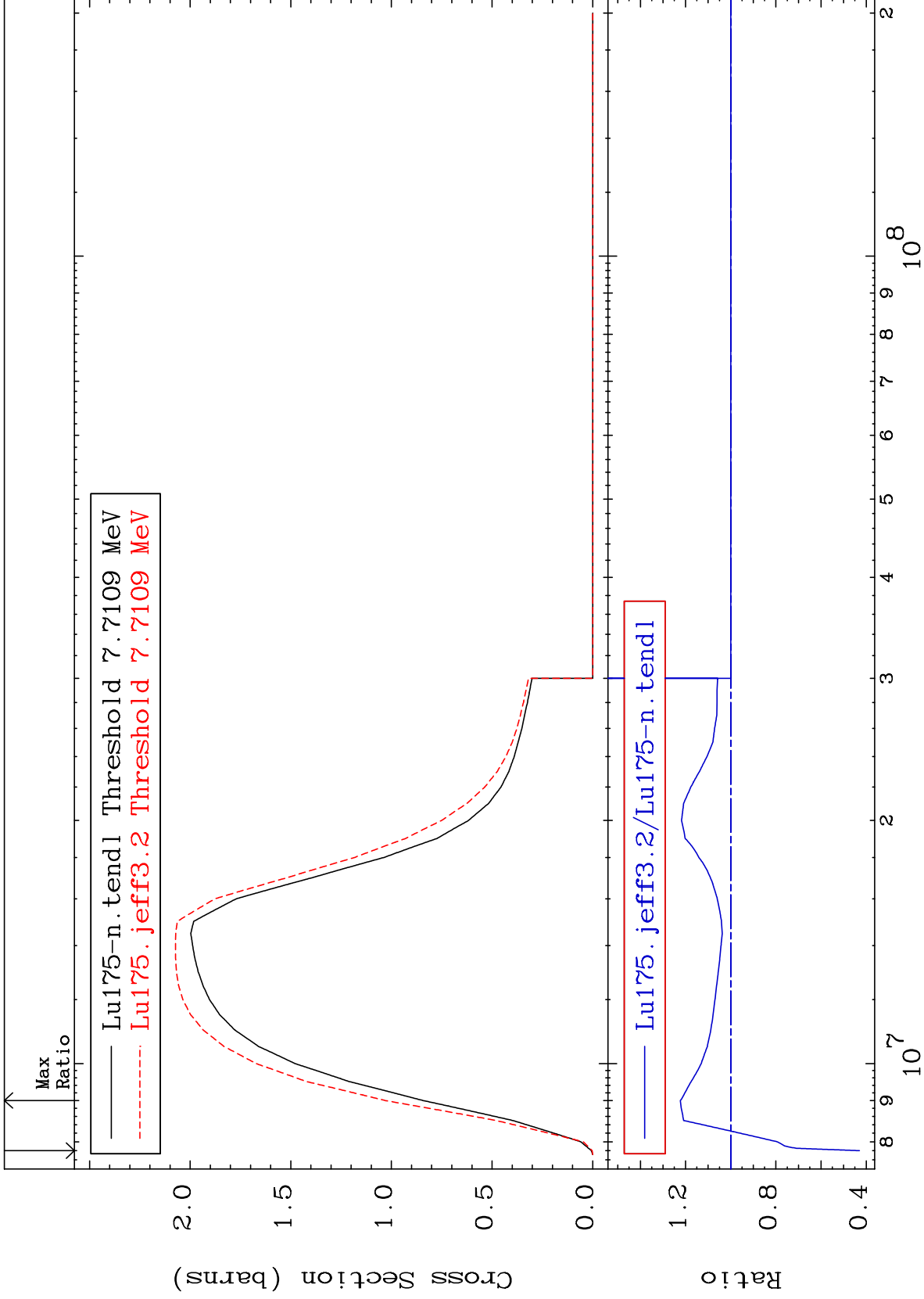
To 106.9 %



MAT 7125

(n,2n)  
Cross Section

<sup>71</sup>Lu-<sup>175</sup>Lu  
-56.99 To 22.30 %



6

Incident Energy (eV)

<sup>71</sup>Lu-<sup>175</sup>Lu

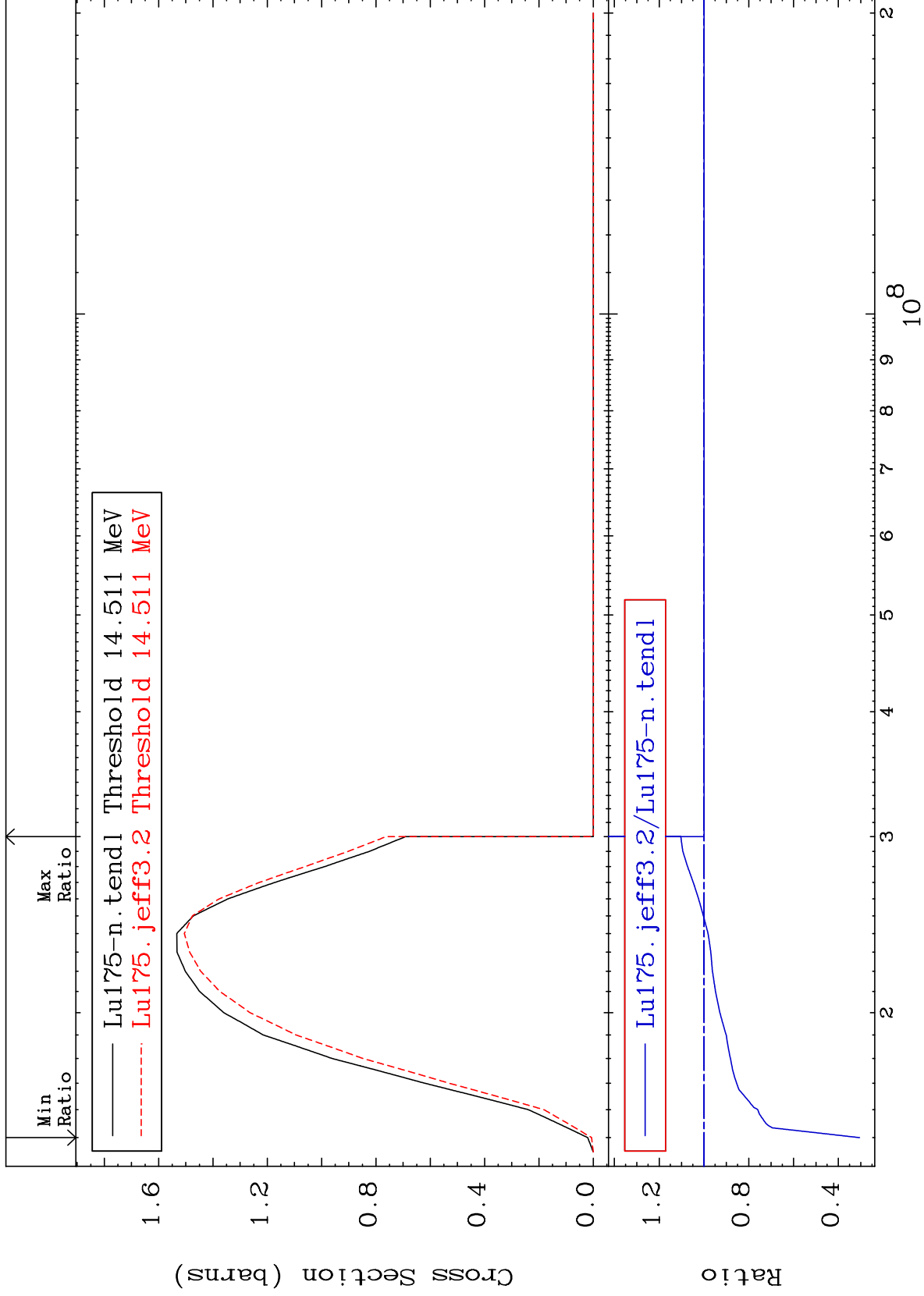
MAT 7125

(n,3n)

<sup>71</sup>Lu-175

Cross Section

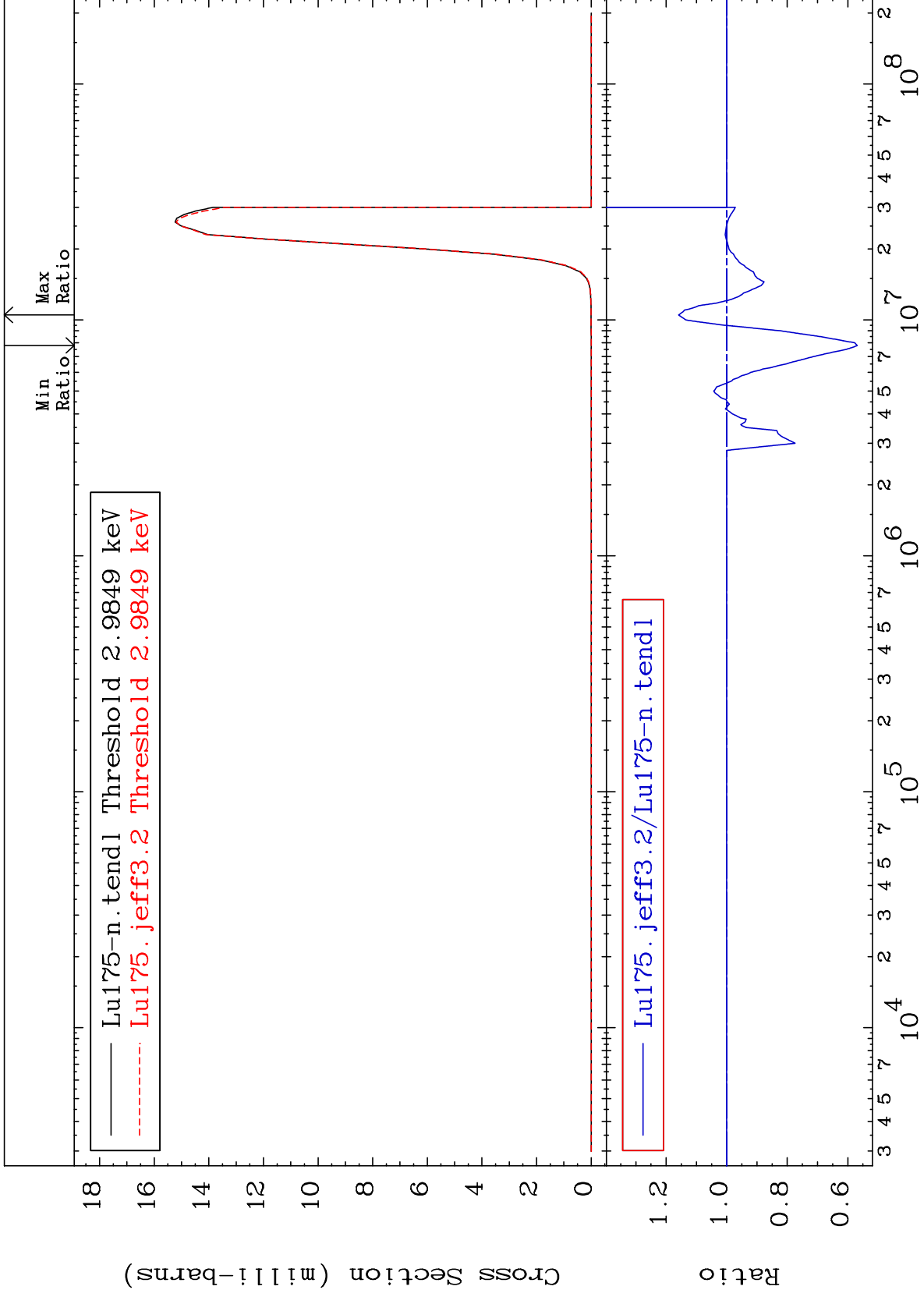
-69.47 To 10.36 %



MAT 7125

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

71-Lu-175  
-43.12 To 15.88 %

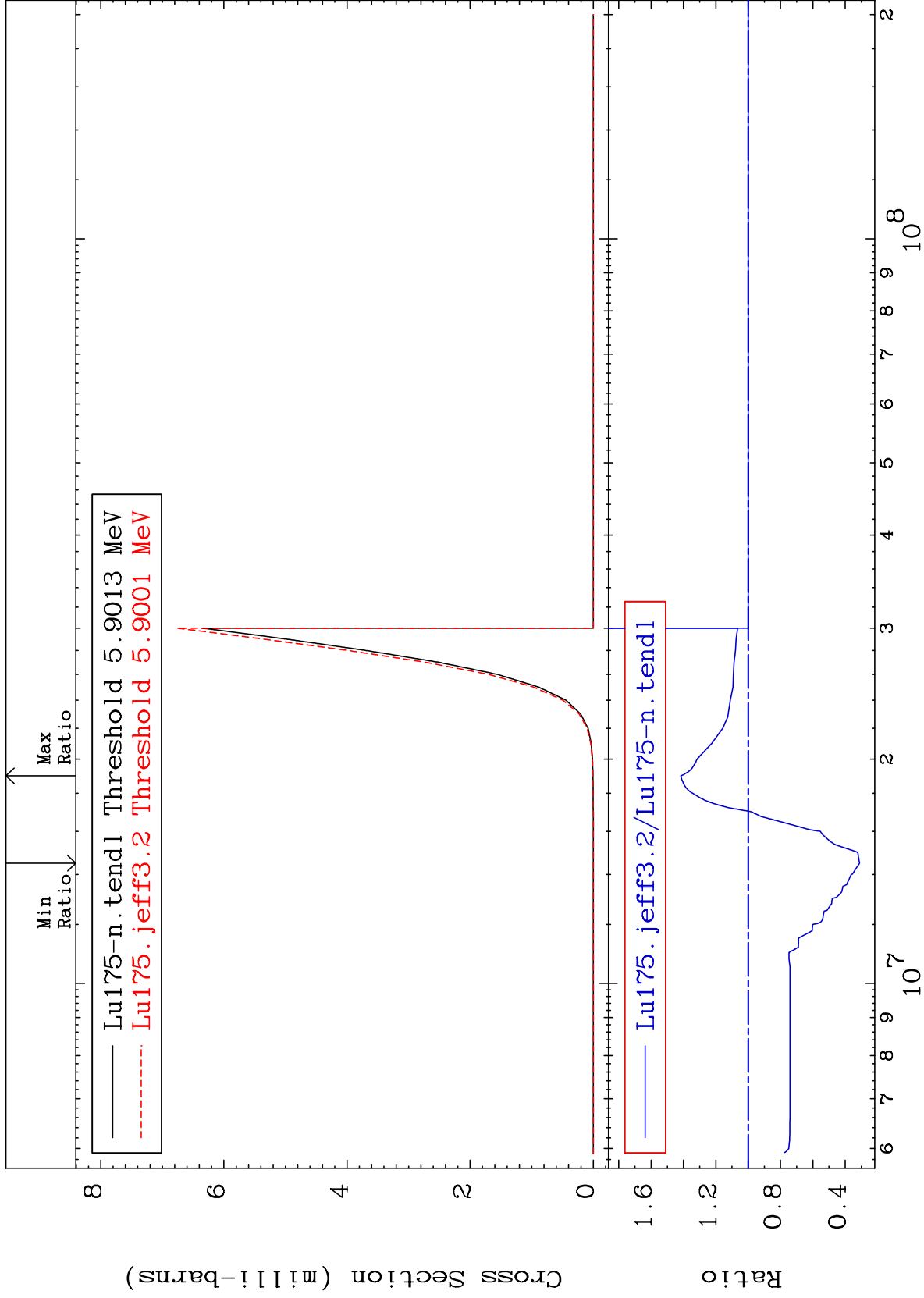




MAT 7125

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

<sup>71</sup>Lu-175  
-68.88 To 41.67 %



9

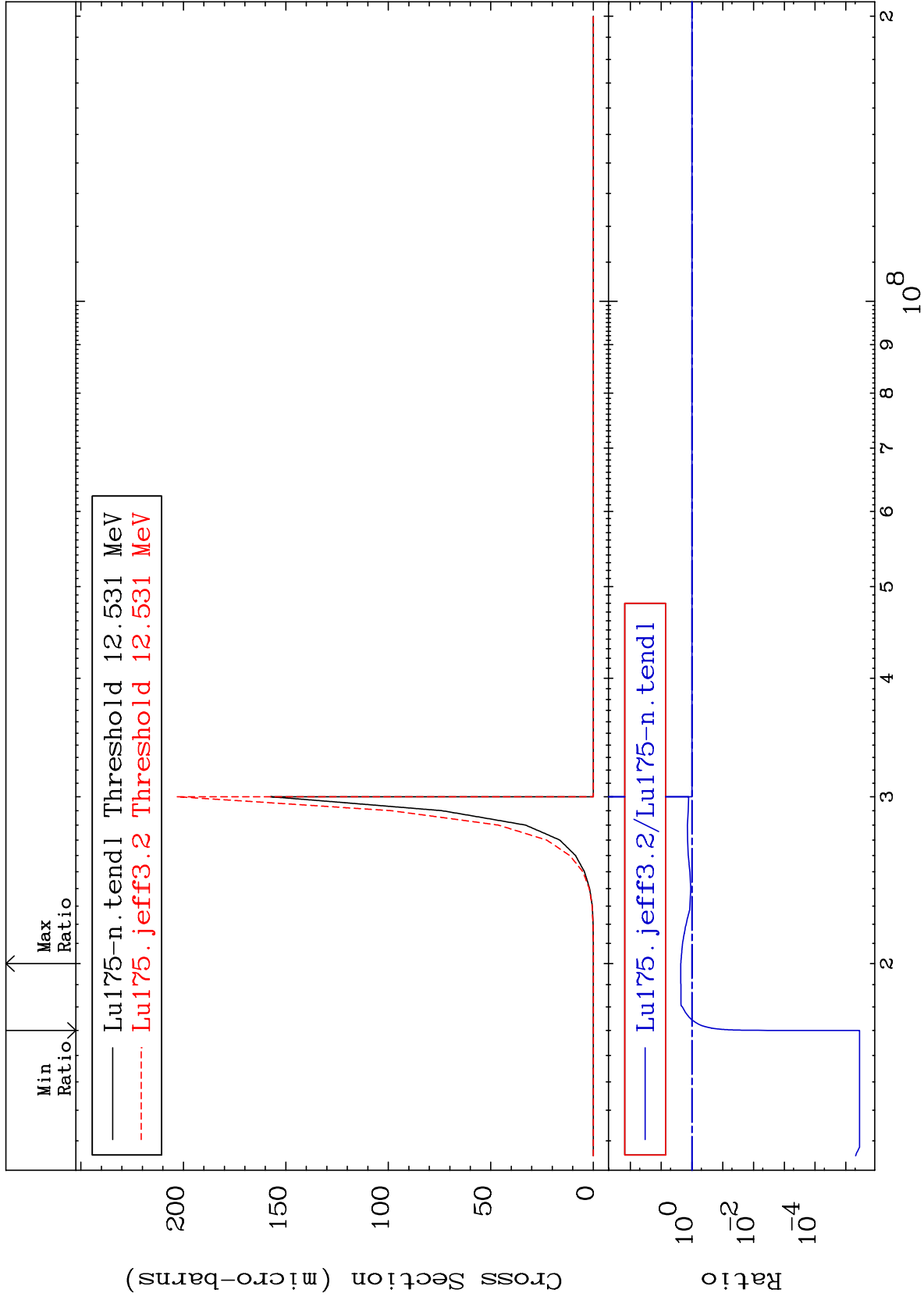
Incident Energy (eV)

<sup>71</sup>Lu-175

MAT 7125

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

<sup>71</sup>Lu-<sup>175</sup>Lu  
-100.0 To 131.6 %



10

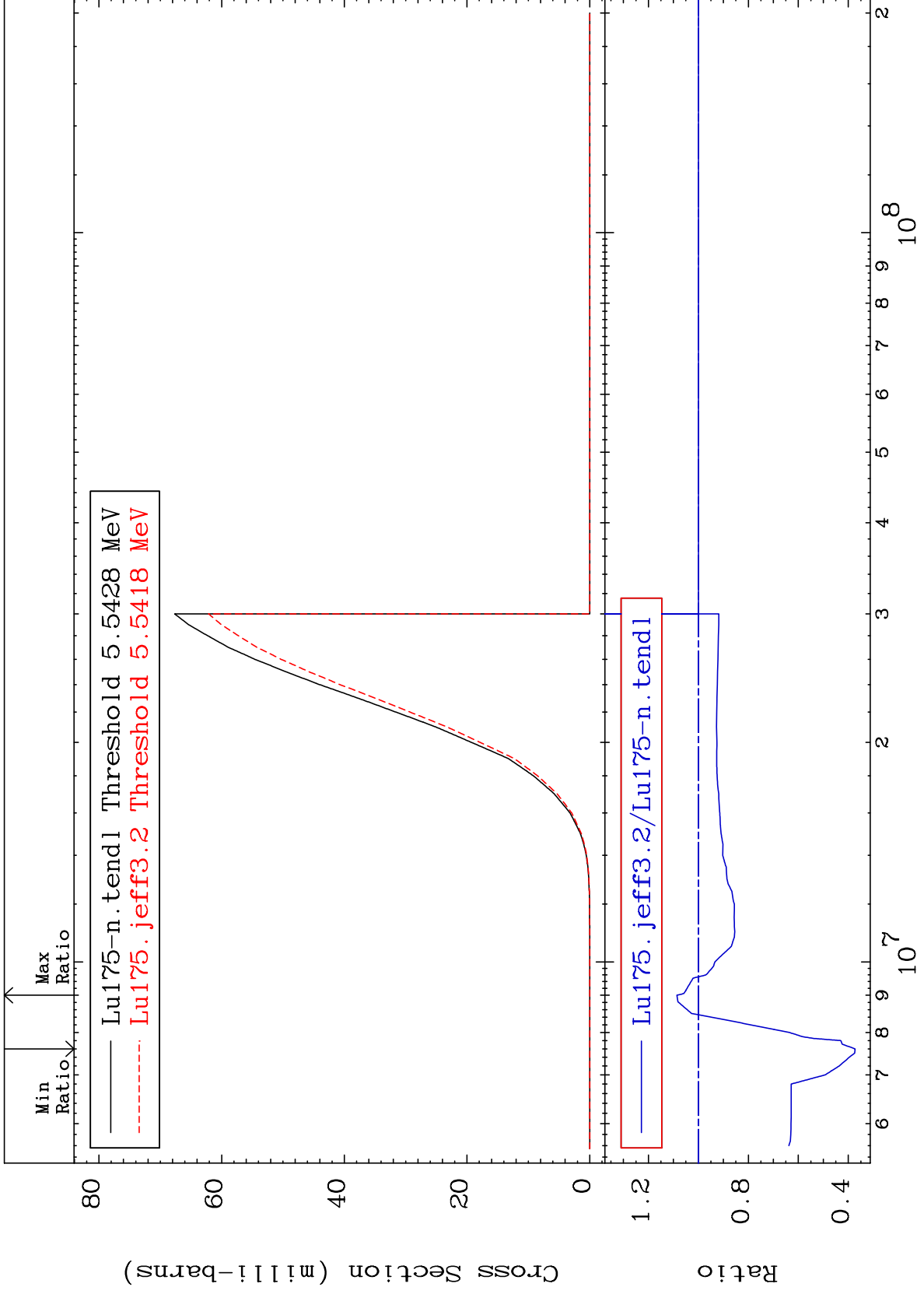
Incident Energy (eV)

<sup>71</sup>Lu-<sup>175</sup>Lu

MAT 7125

(n, n') p  
Cross Section

<sup>71</sup>Lu-<sup>175</sup>  
-62.72 To 8.587 %



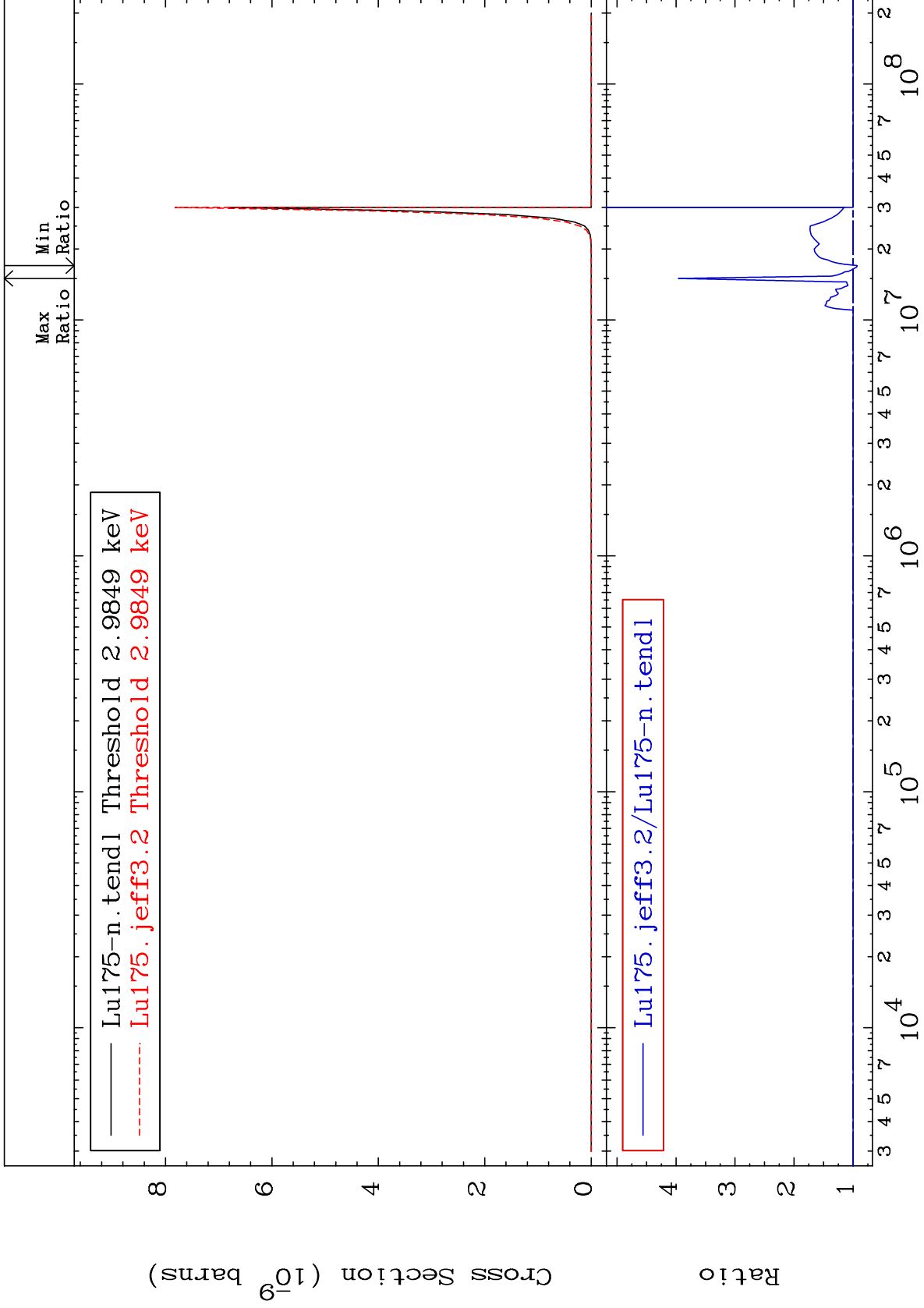
11

71-Lu-175

MAT 7125

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

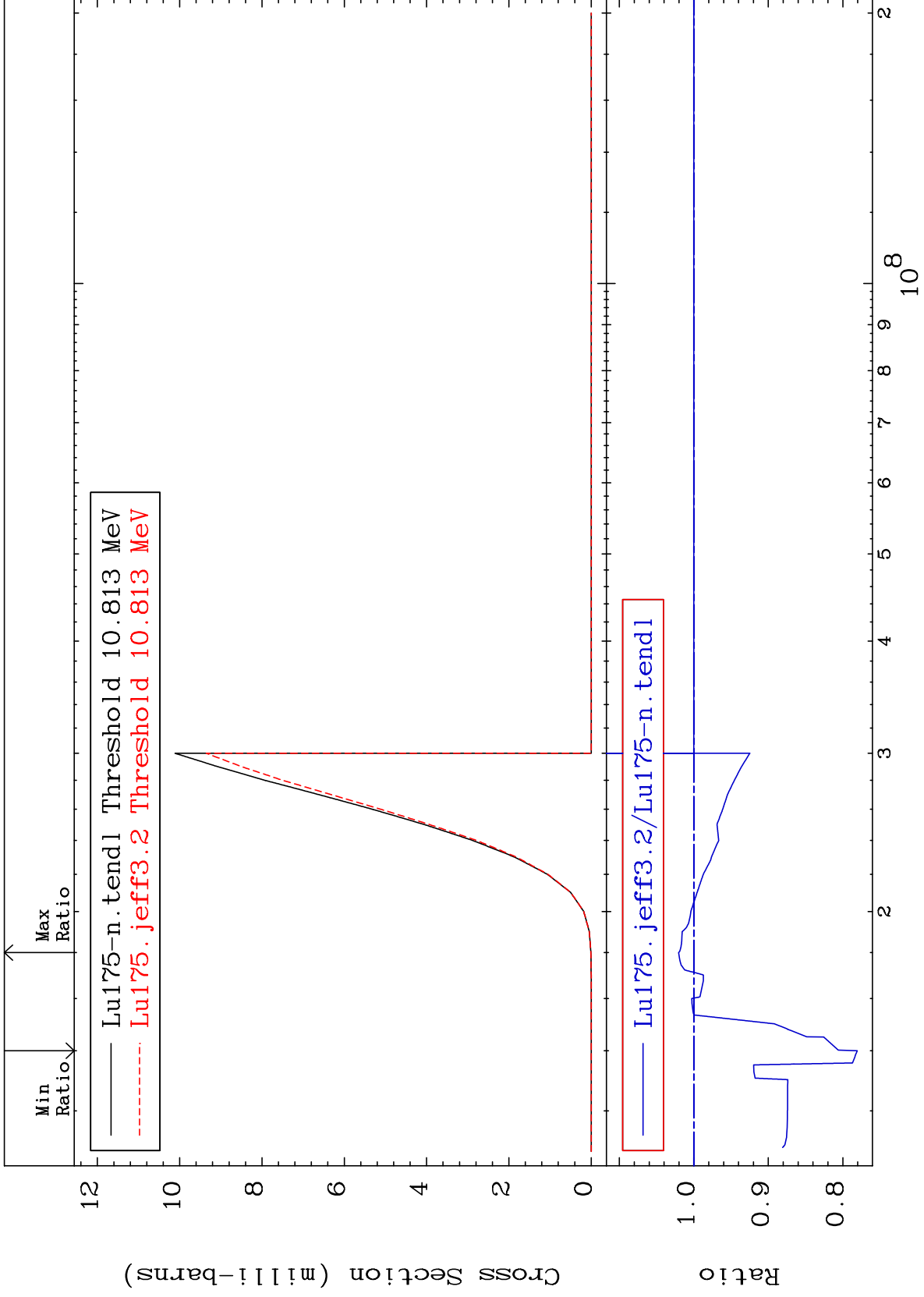
71-Lu-175  
-7.085 To 295.6 %



MAT 7125

(n,n') d  
Cross Section

71-Lu-175  
-21.94 To 2.044 %



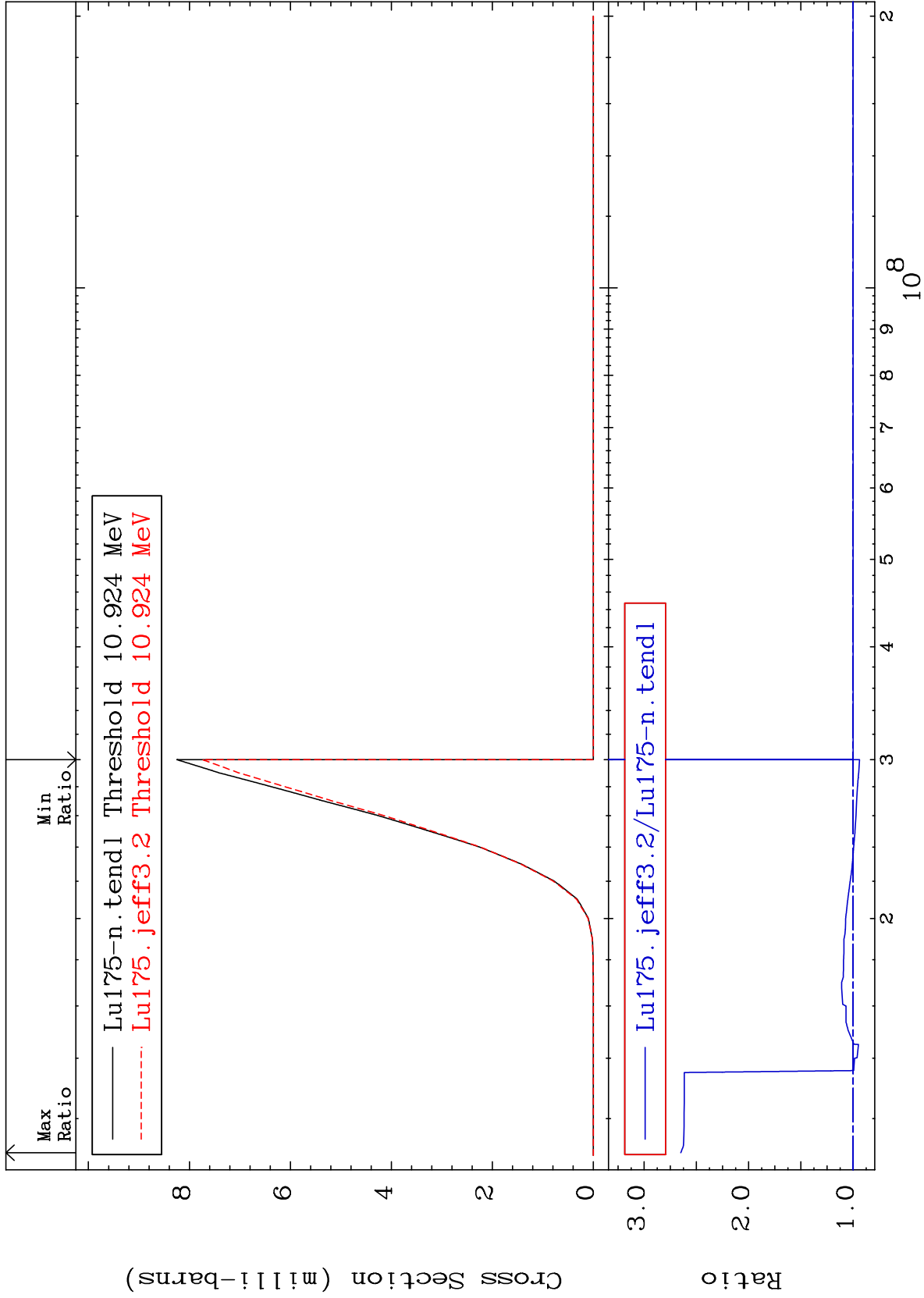
MAT 7125

(n,n') t

<sup>71</sup>Lu-<sup>175</sup>

Cross Section

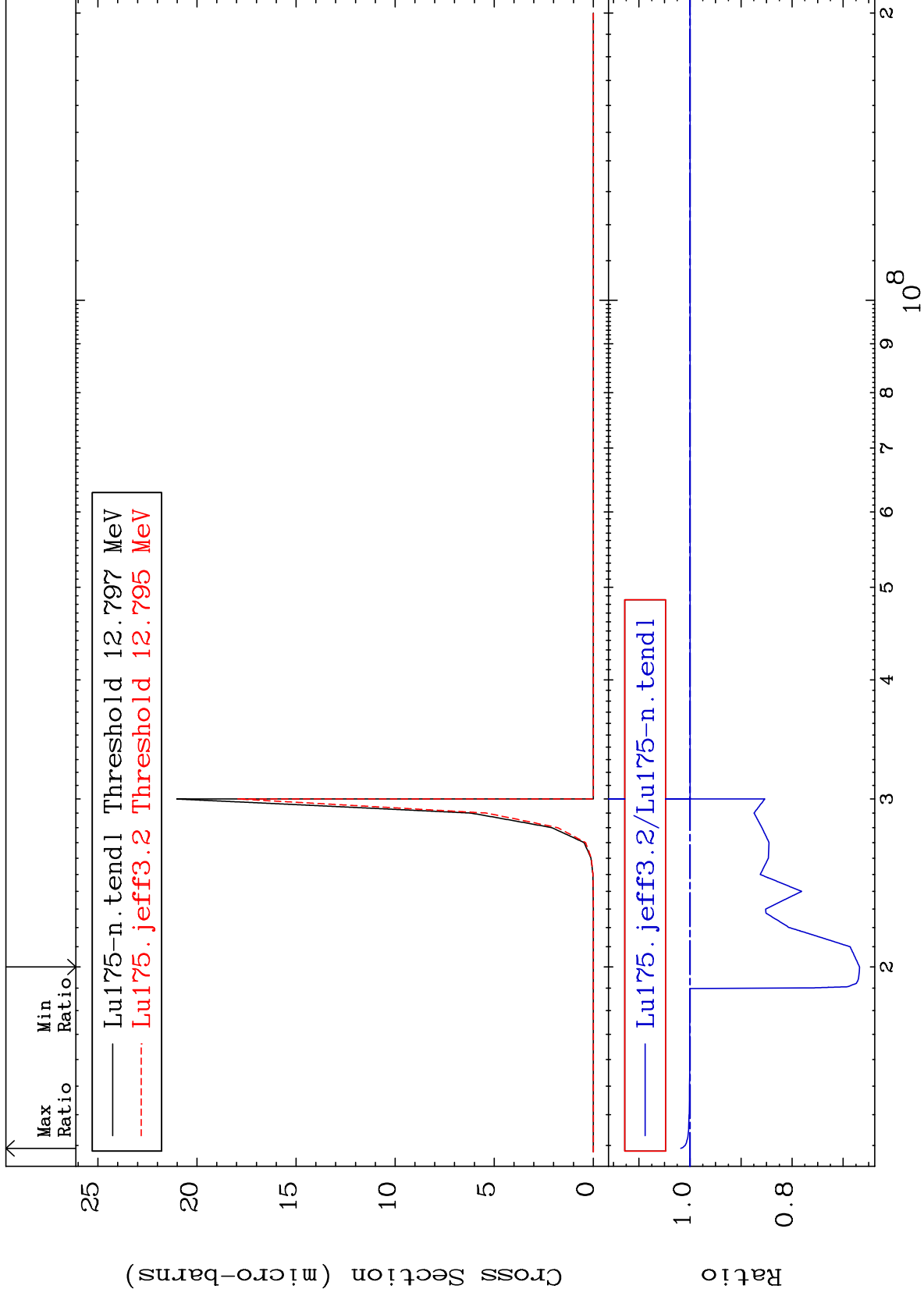
-6.124 To 165.0 %



MAT 7125

(n, n') He-3  
Cross Section

71-Lu-175  
-33.21 To 1.810 %



15

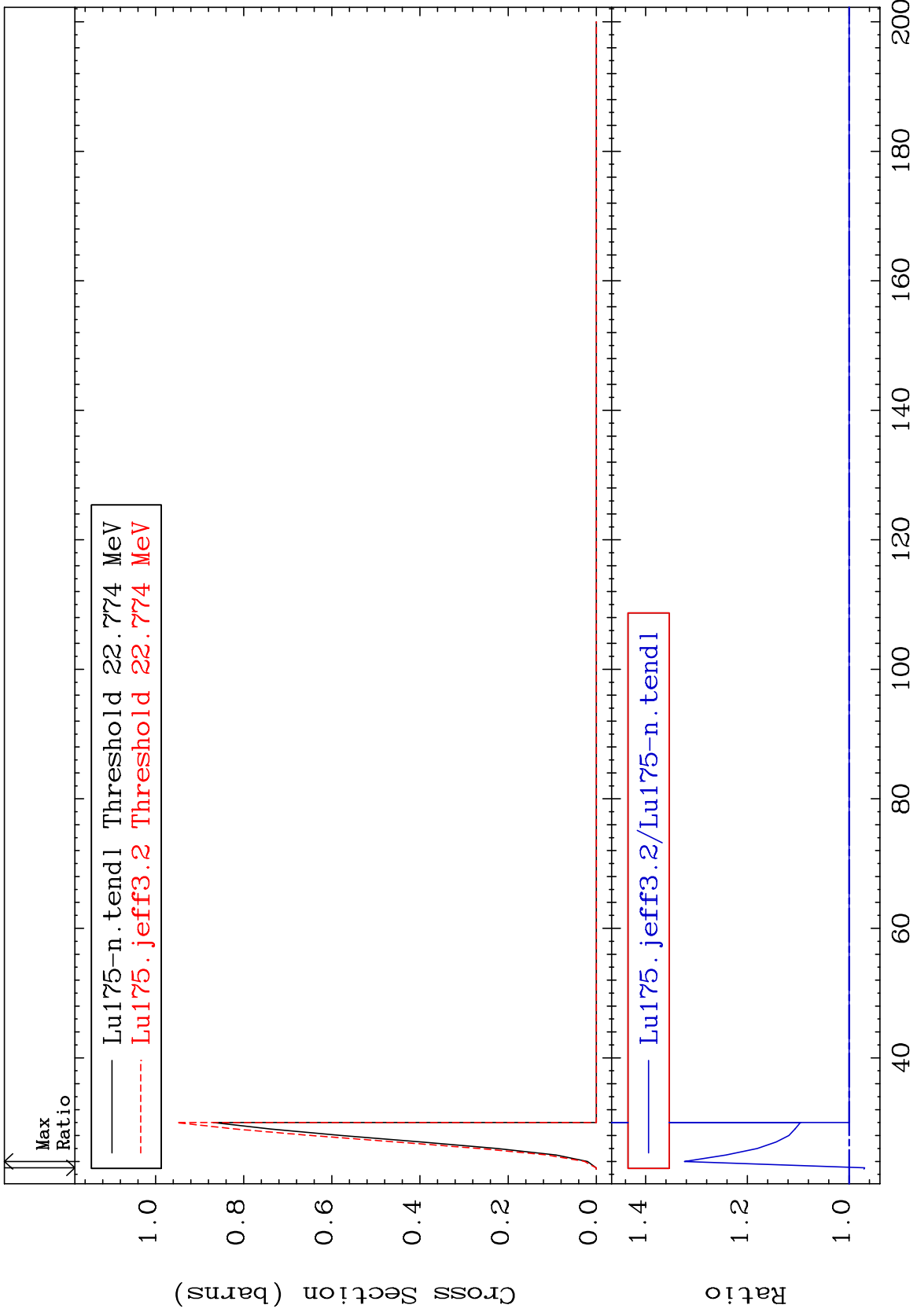
Incident Energy (eV)

71-Lu-175

MAT 7125

(n,4n)  
Cross Section

71-Lu-175  
-3.043 To 32.38 %

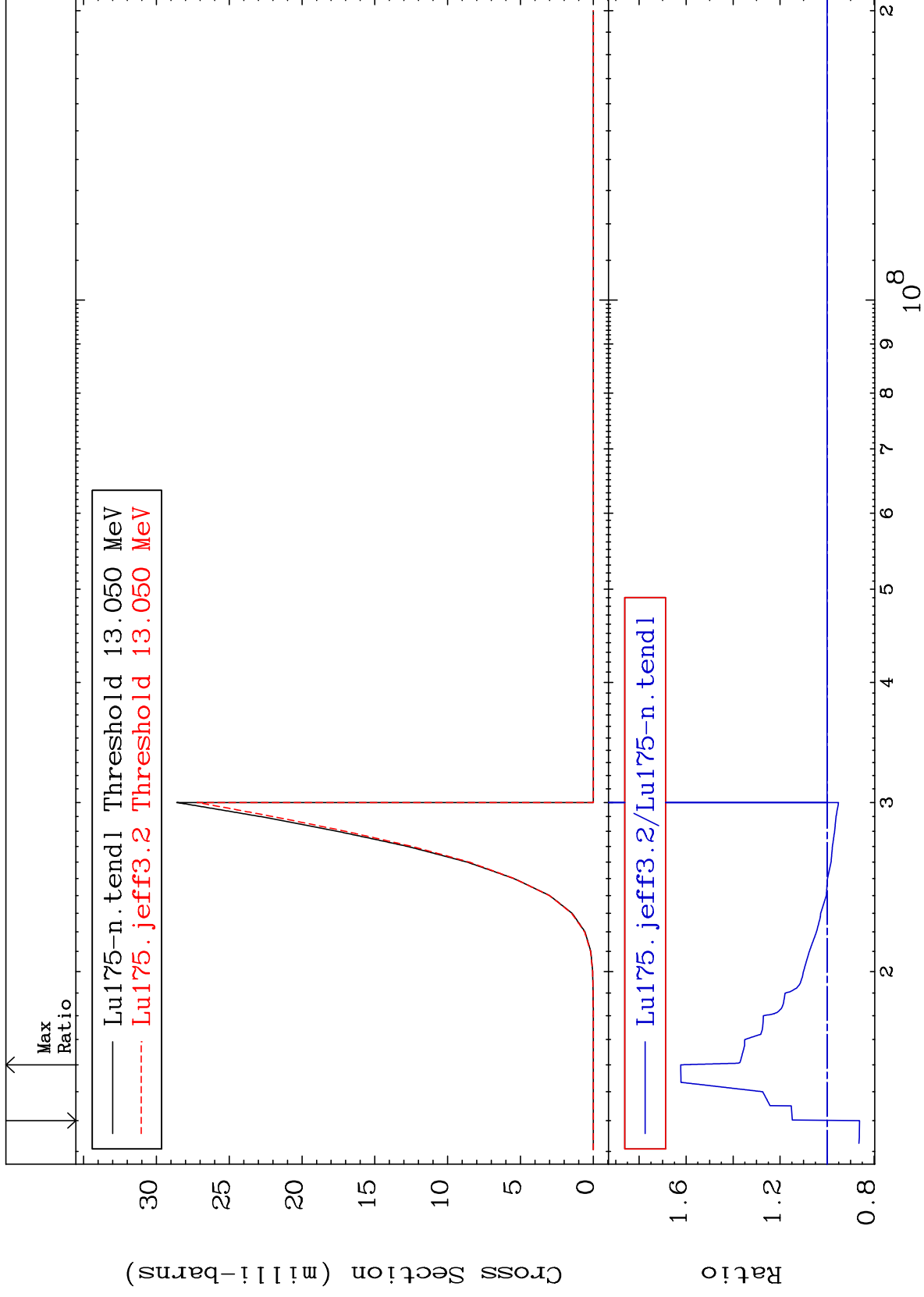




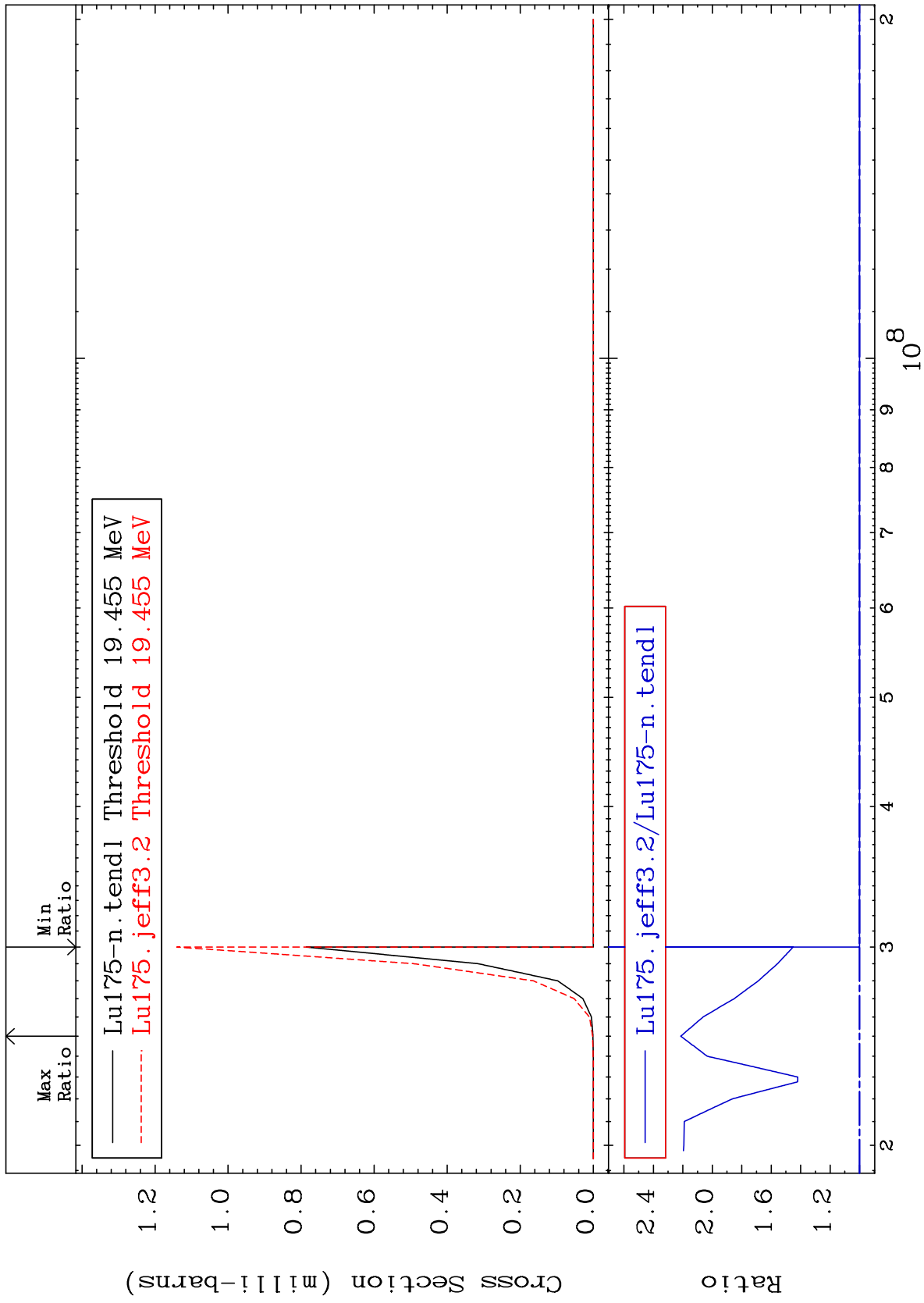
MAT 7125

(n,2n) p  
Cross Section

71-Lu-175  
-13.84 To 62.29 %



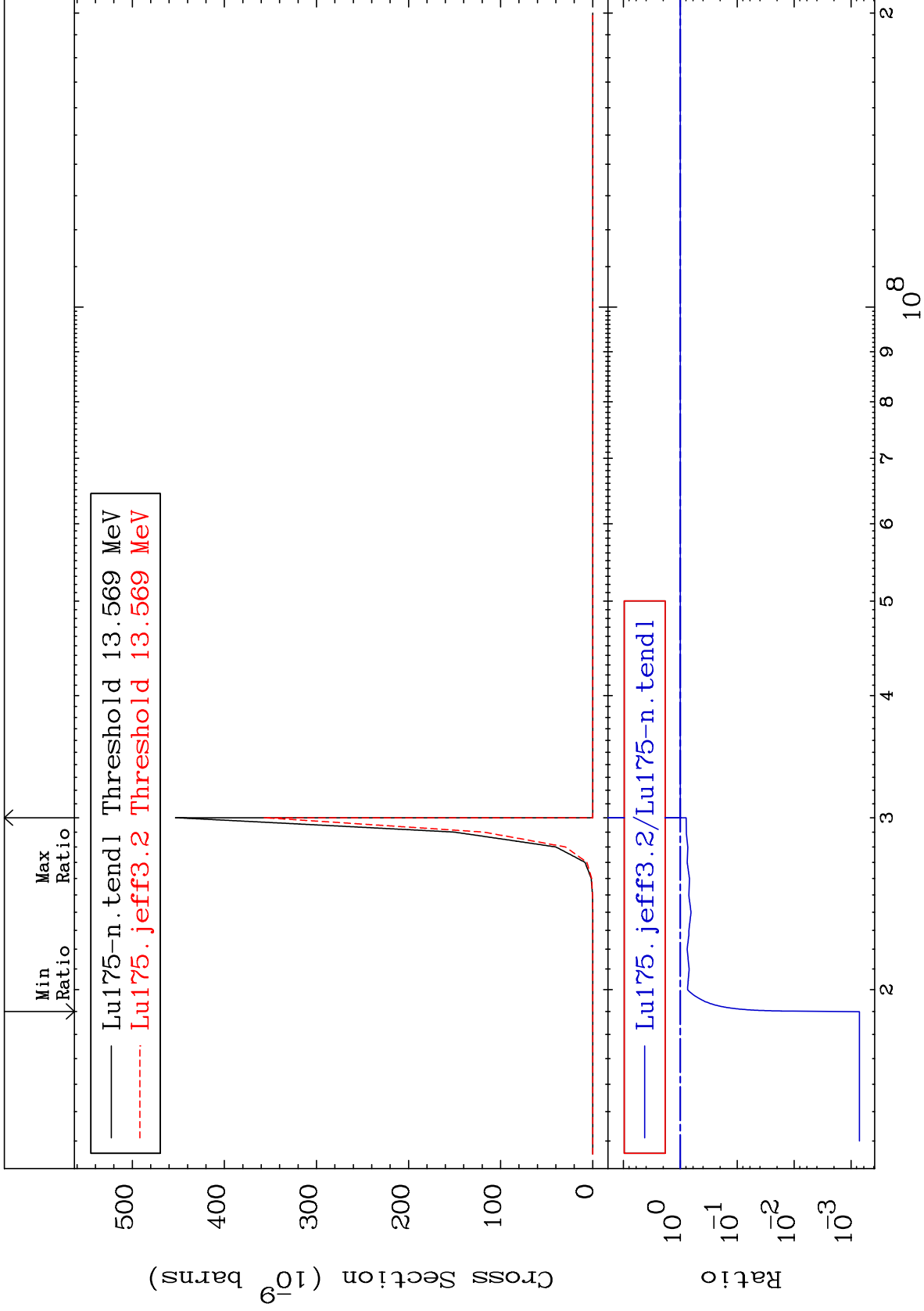
MAT 7125  $(n, 3n)$  p  $^{71}\text{Lu-175}$   
 Cross Section To 121.4 %



MAT 7125

(n,2n) p  
Cross Section

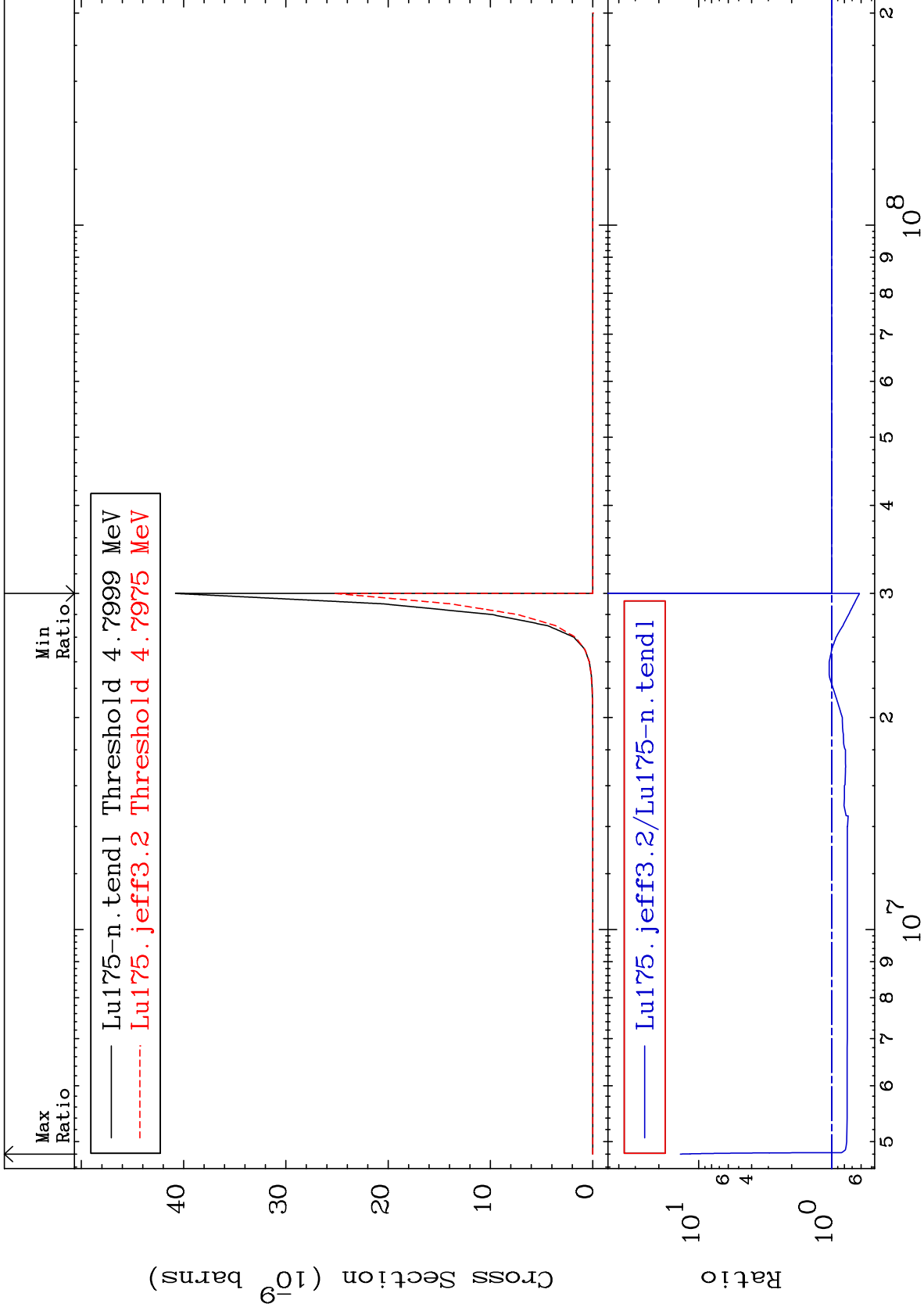
<sup>71</sup>Lu-<sup>175</sup>Lu  
-99.93 To 0.000 %



MAT 7125

(n,n') p α  
Cross Section

<sup>71</sup>-Lu-175  
-38.25 To 1276. %



20

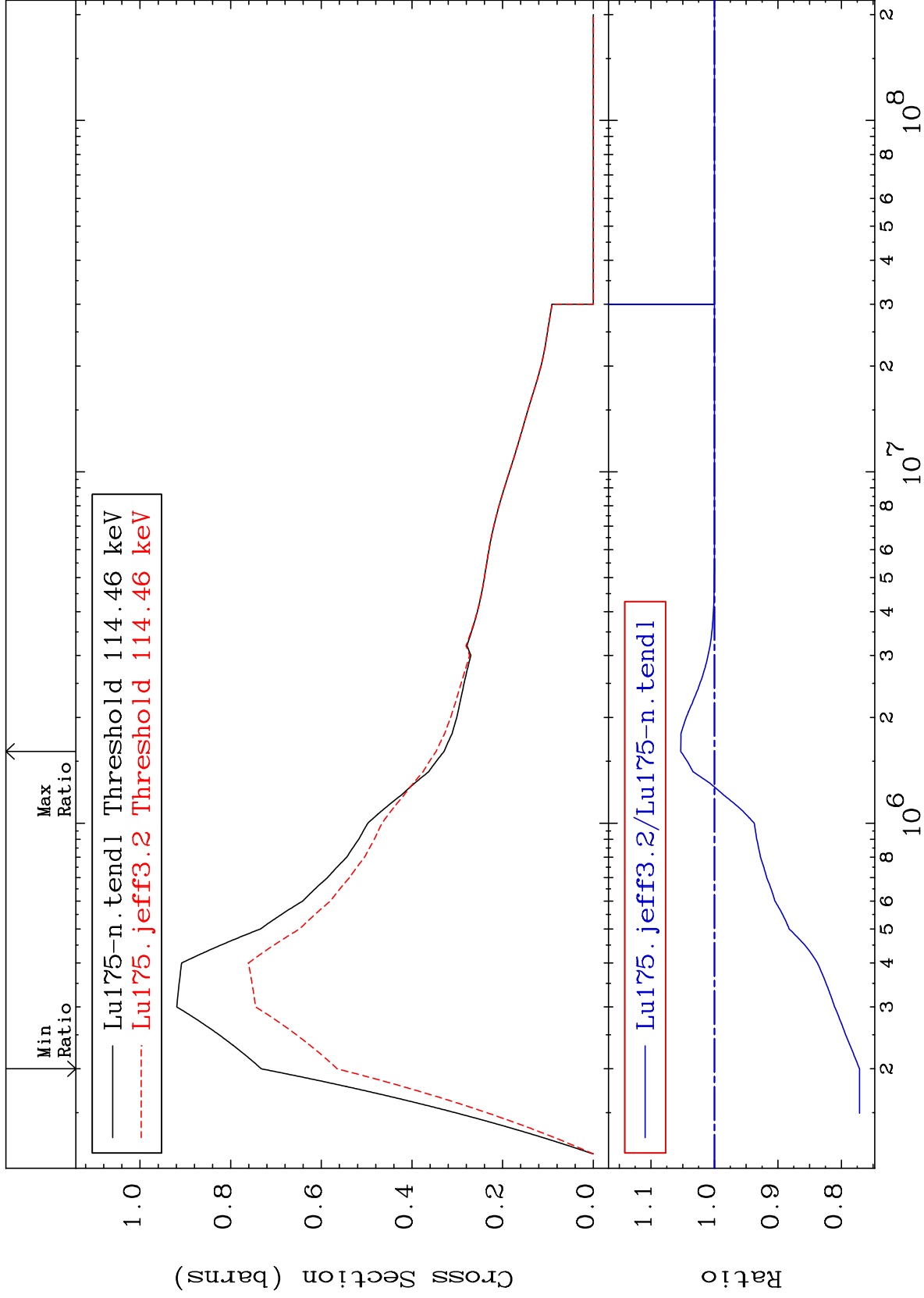
Incident Energy (eV)

<sup>71</sup>-Lu-175

MAT 7125

113.8 keV (n,n') Level  
Cross Section

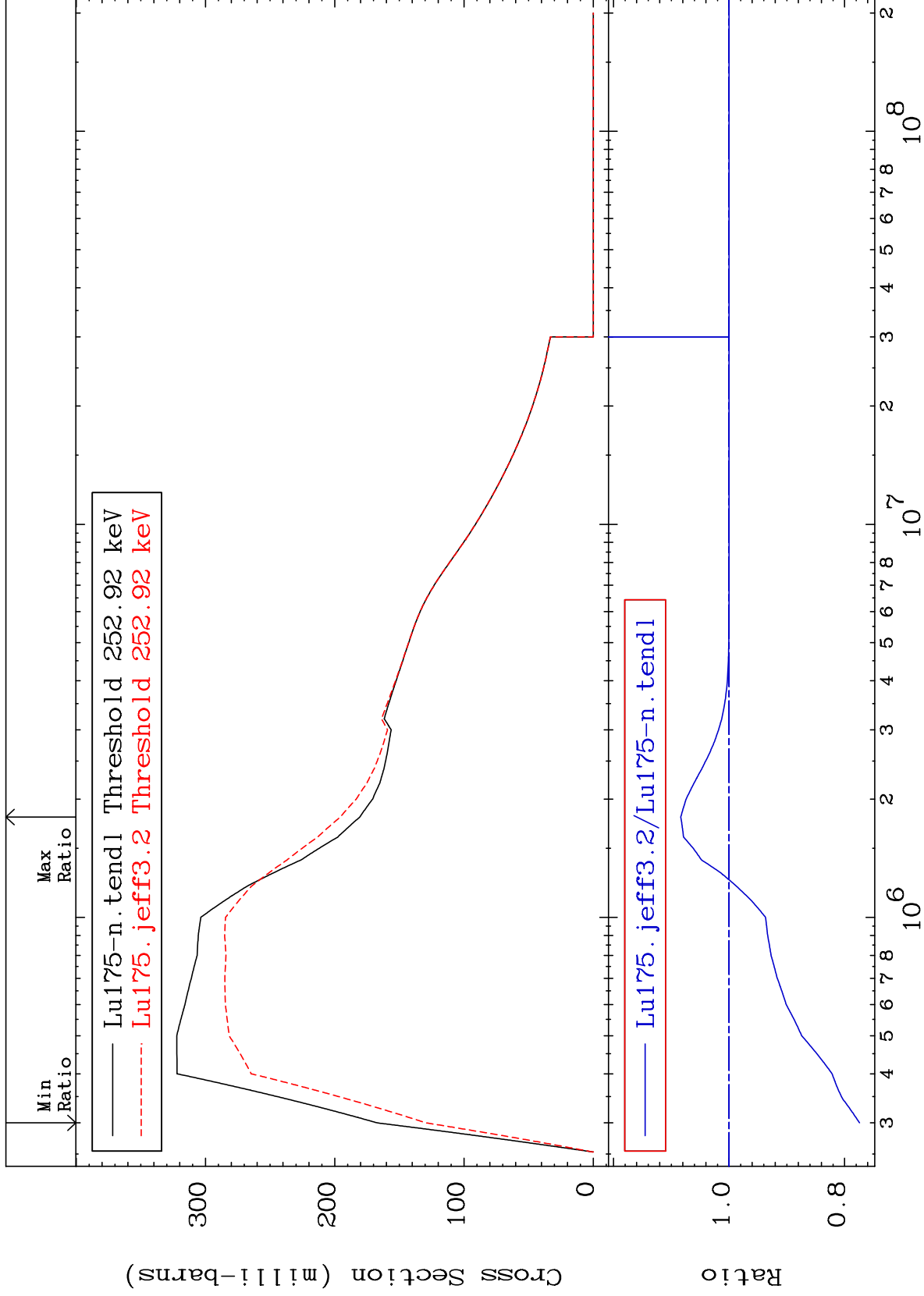
71-Lu-175  
-22.87 To 5.310 %



MAT 7125

251.5 keV (n,n') Level  
Cross Section

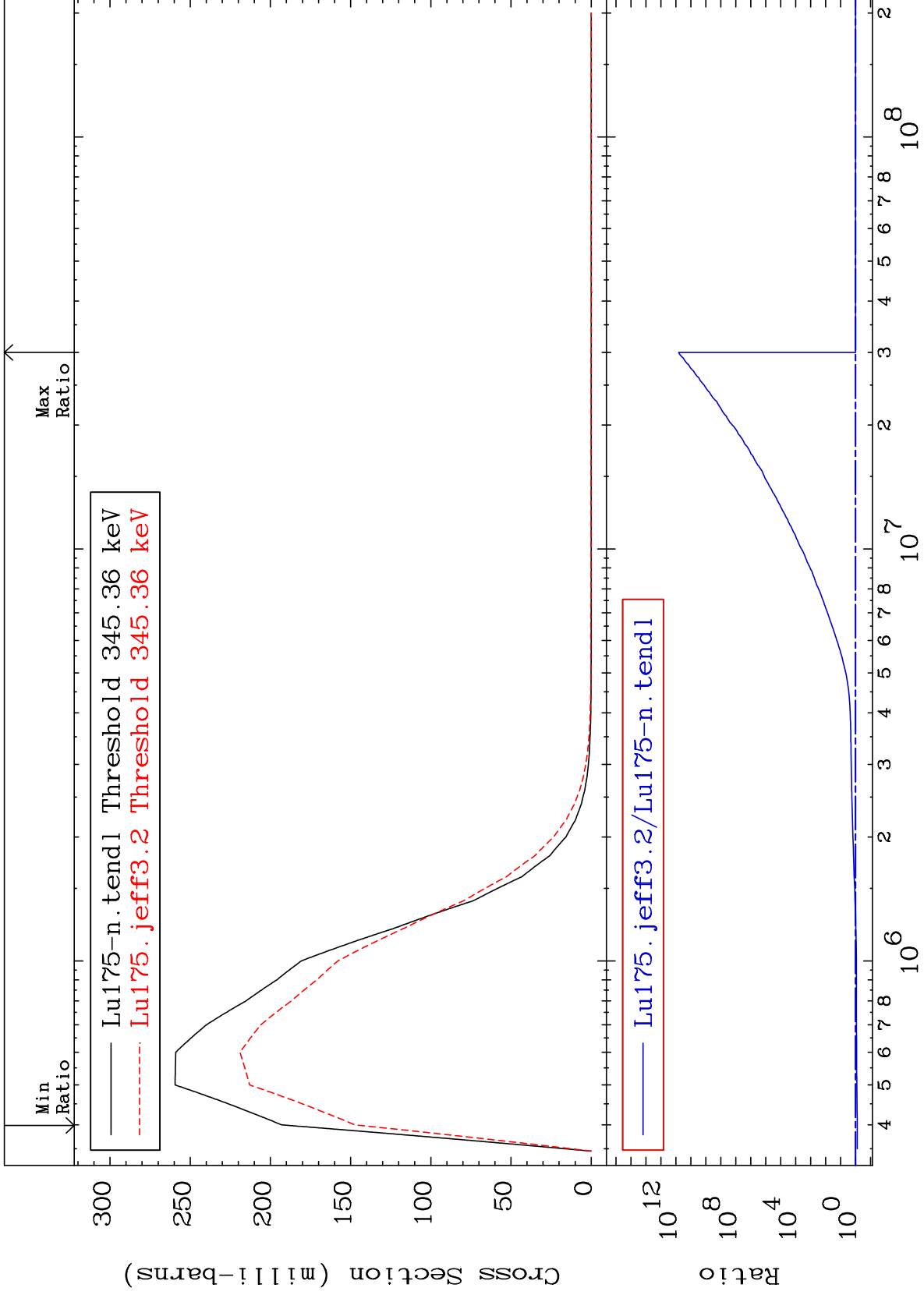
71-Lu-175  
-22.59 To 8.357 %



MAT 7125

343.4 keV (n,n') Level  
Cross Section

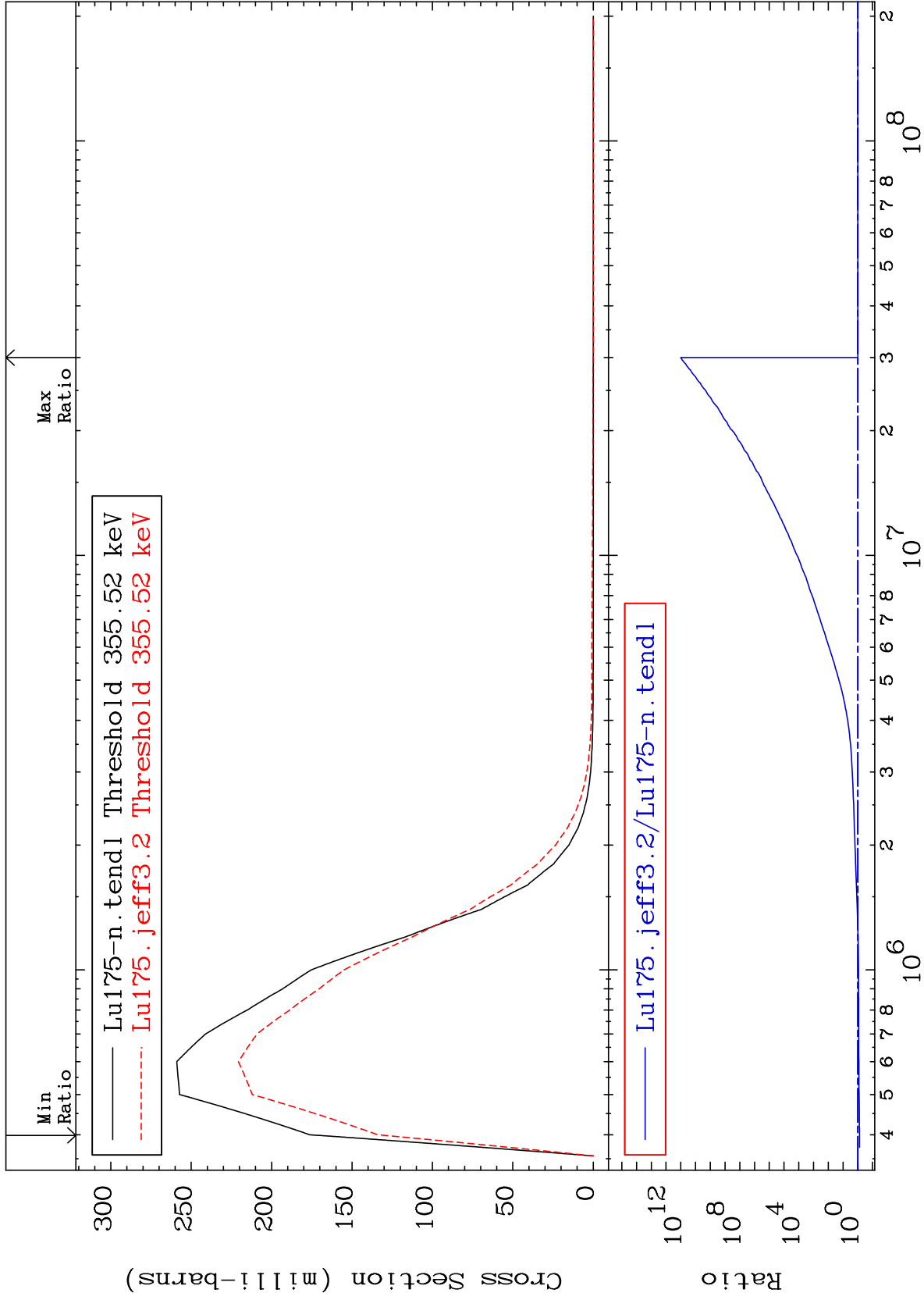
71-Lu-175  
-23.68 To 9999. %



MAT 7125

353.5 keV (n,n') Level  
Cross Section

71-Lu-175  
-23.98 To 9999. %

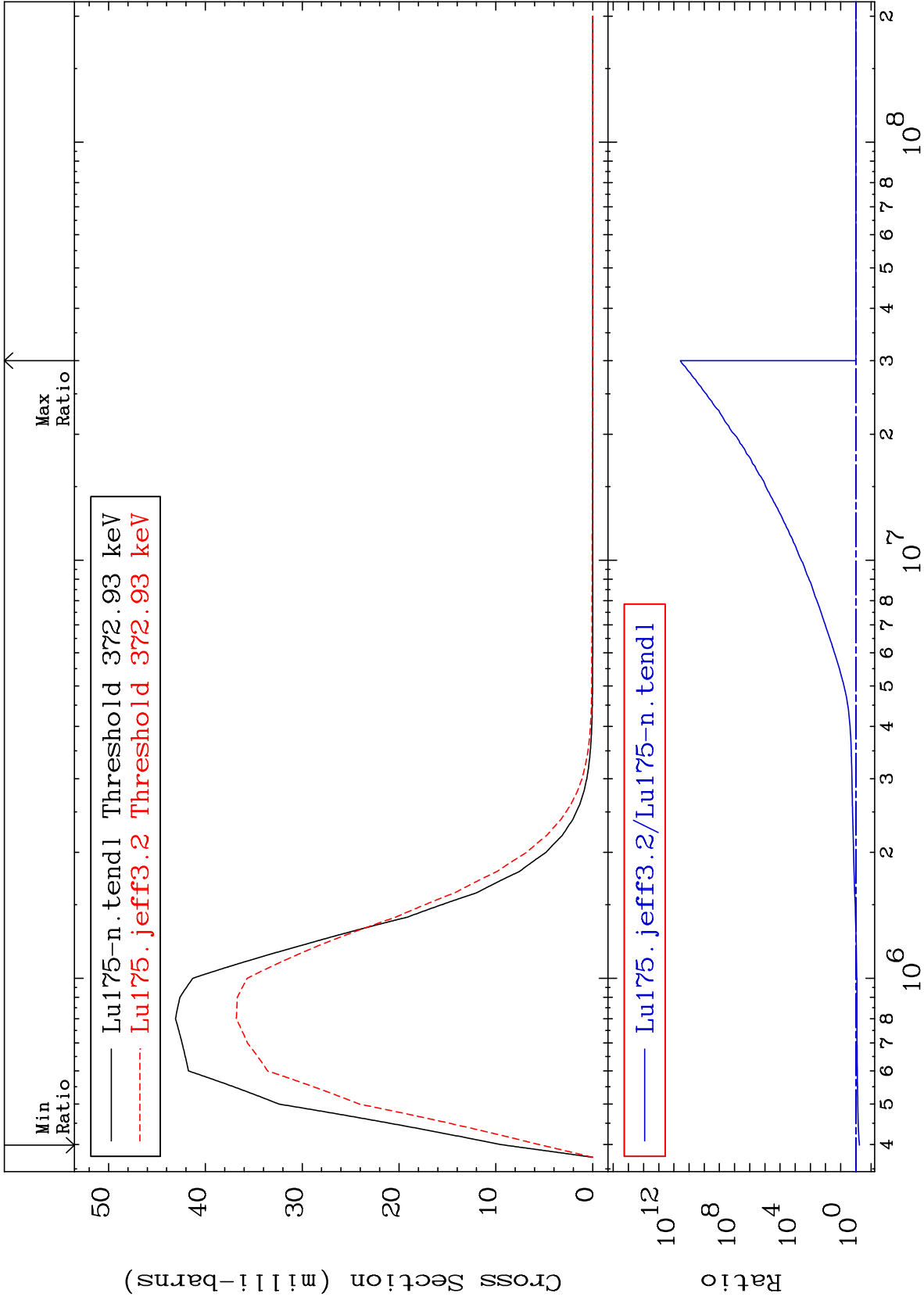




MAT 7125

370.8 keV (n,n') Level  
Cross Section

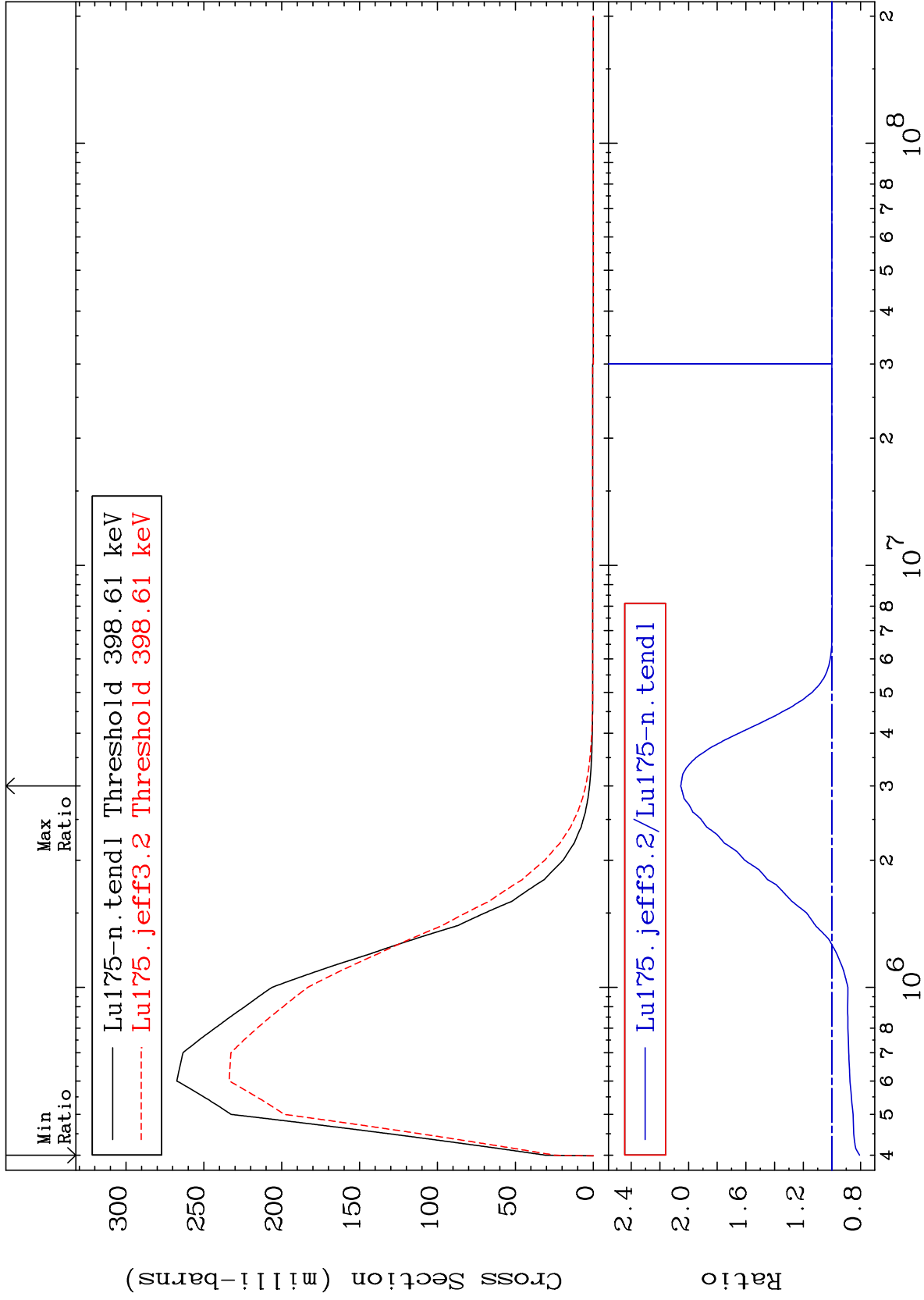
71-Lu-175  
-41.87 To 9999. %



MAT 7125

396.3 keV (n,n') Level  
Cross Section

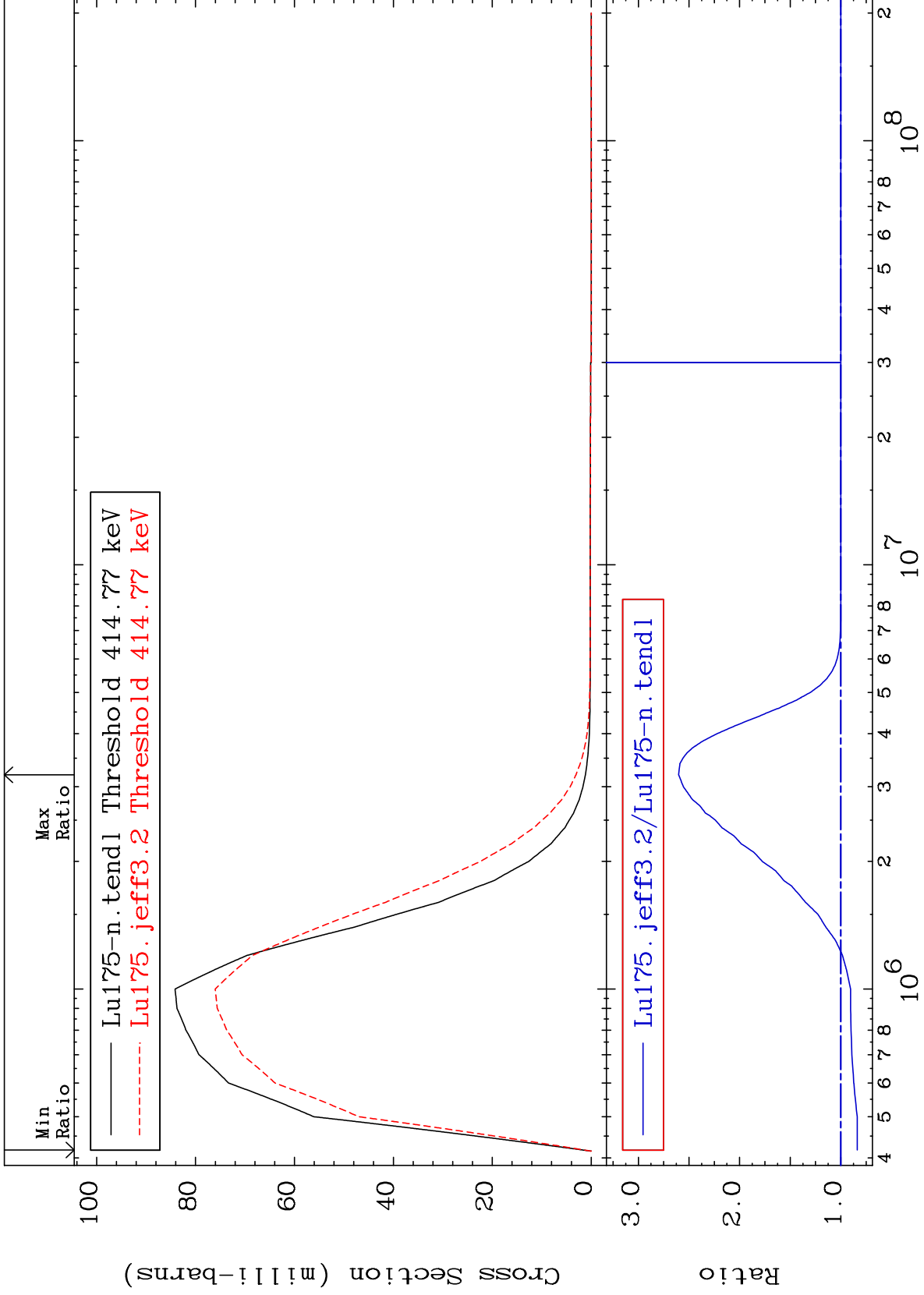
71-Lu-175  
-19.25 To 105.4 %



MAT 7125

412.4 keV (n,n') Level  
Cross Section

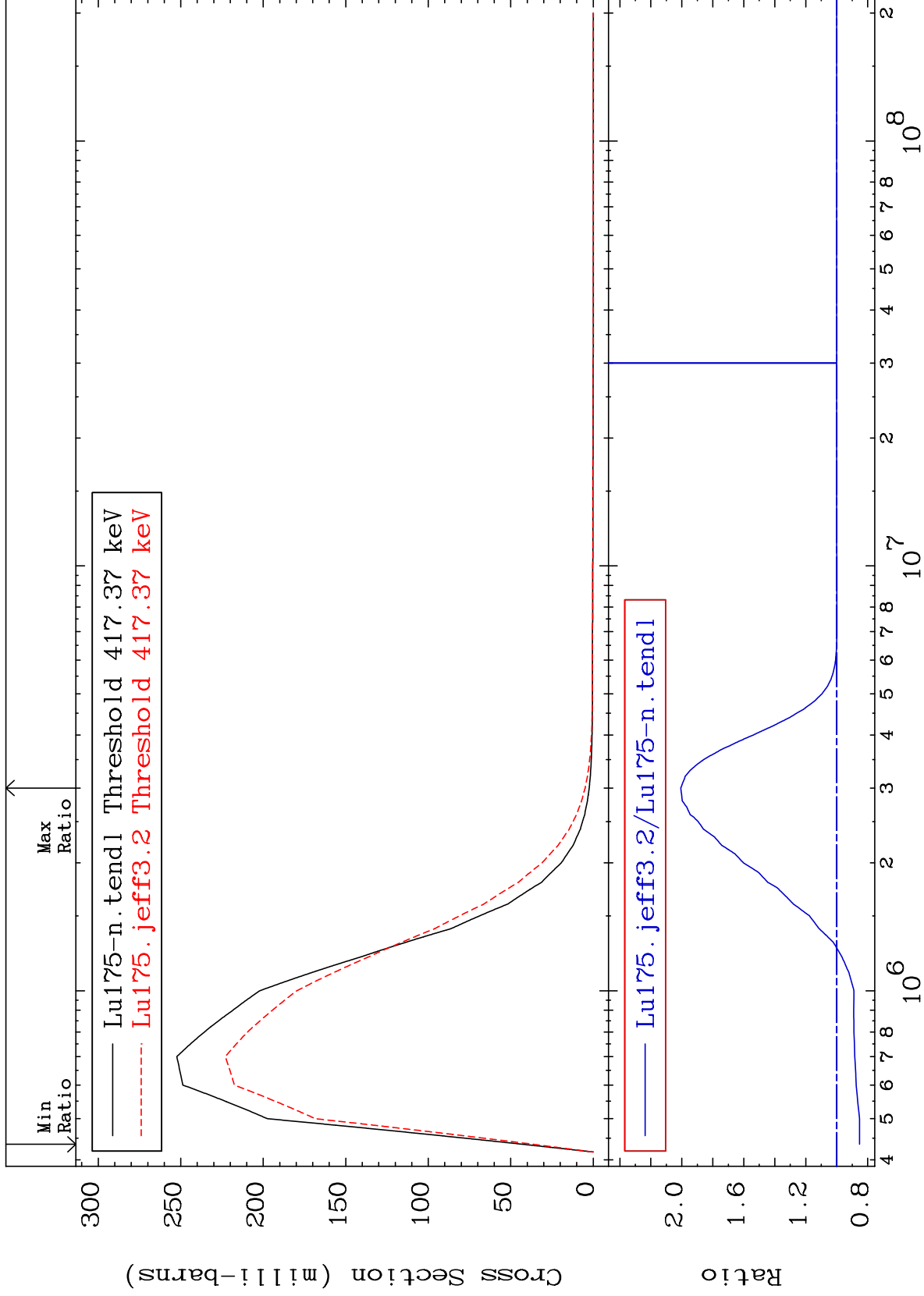
71-Lu-175  
-16.22 To 160.2 %



MAT 7125

415.0 keV (n,n') Level  
Cross Section

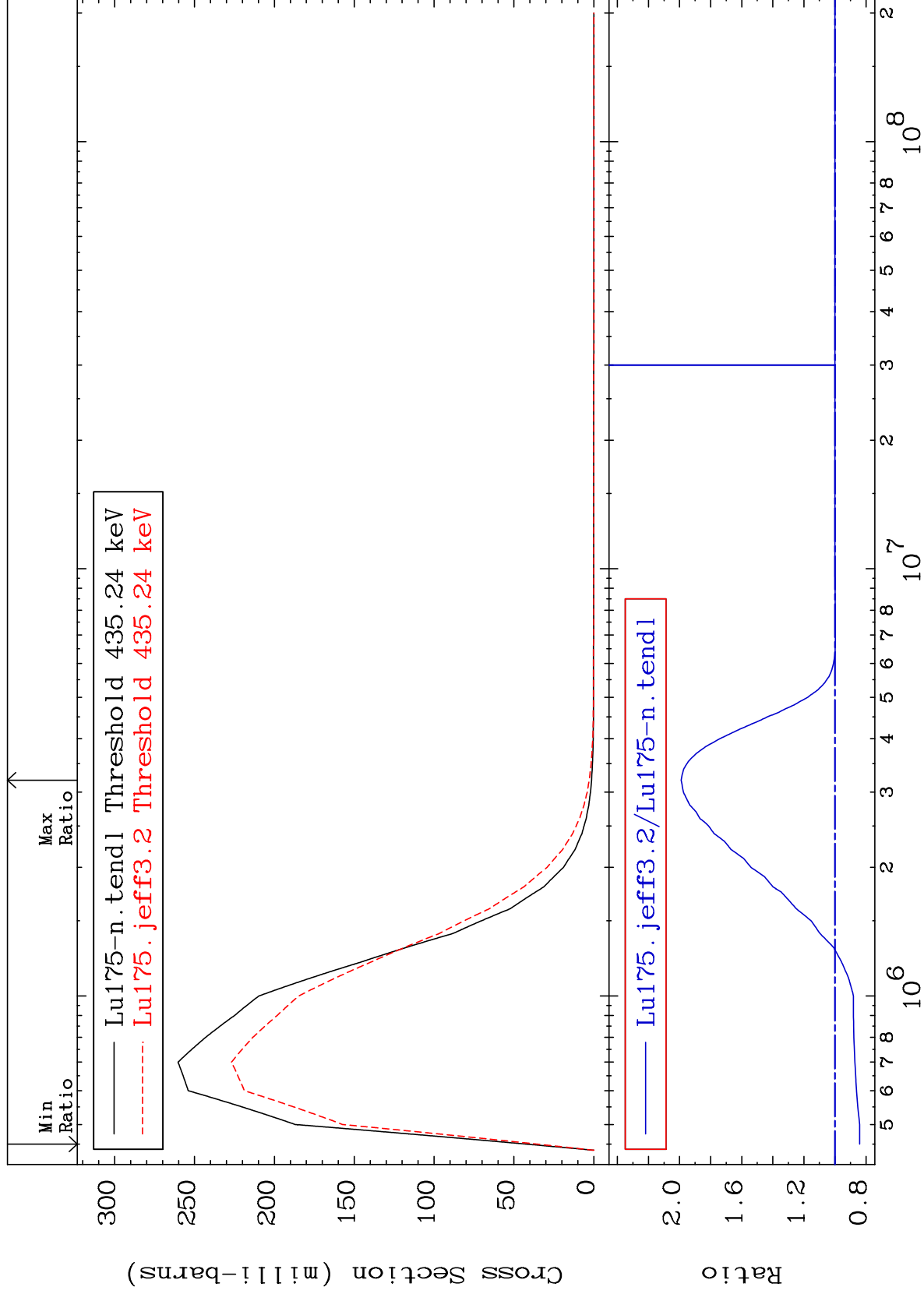
71-Lu-175  
-14.72 To 100.7 %



MAT 7125

432.7 keV (n,n') Level  
Cross Section

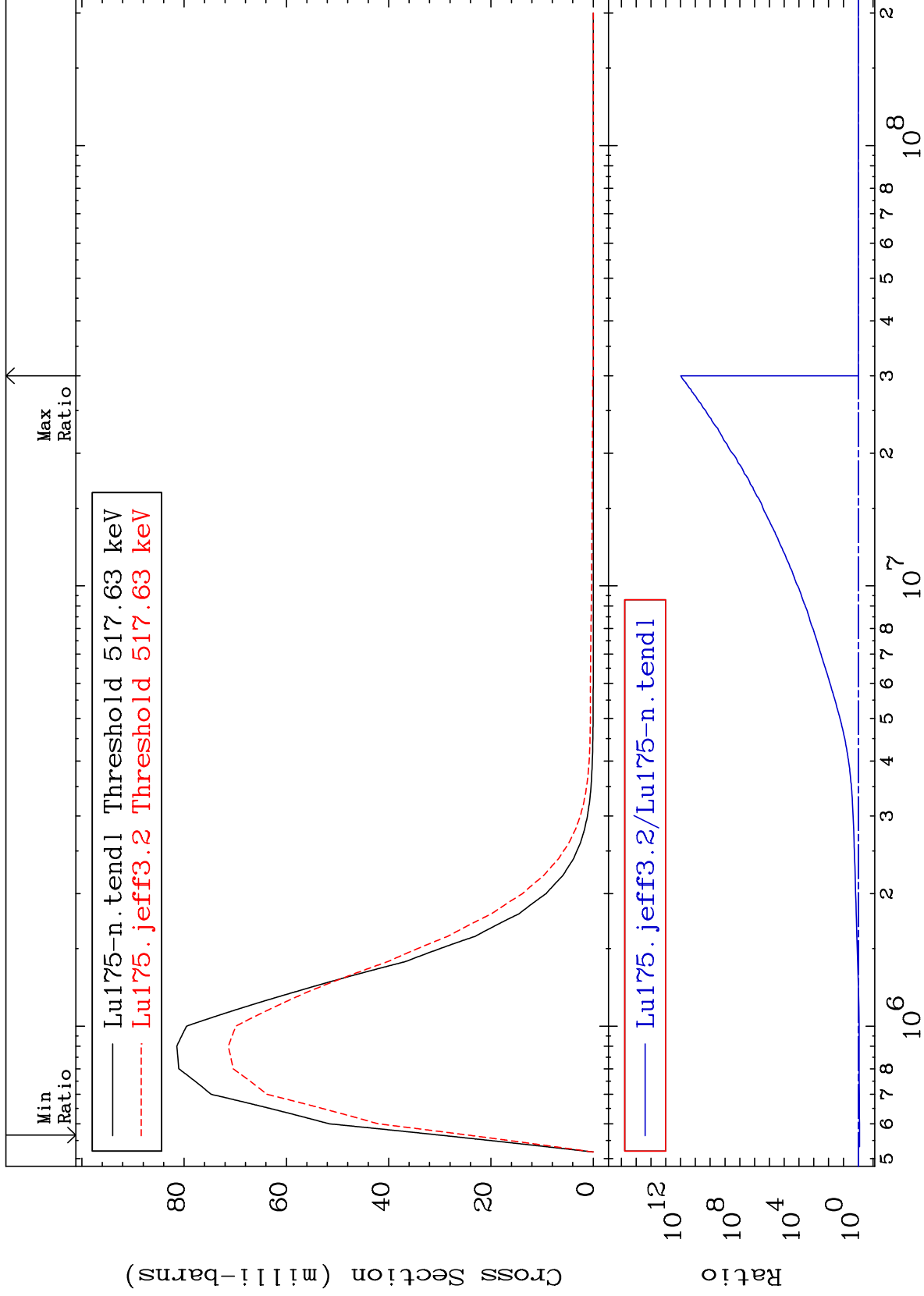
71-Lu-175  
-15.90 To 98.96 %



MAT 7125

514.7 keV (n,n') Level  
Cross Section

71-Lu-175  
-18.50 To 9999. %



30

71-Lu-175

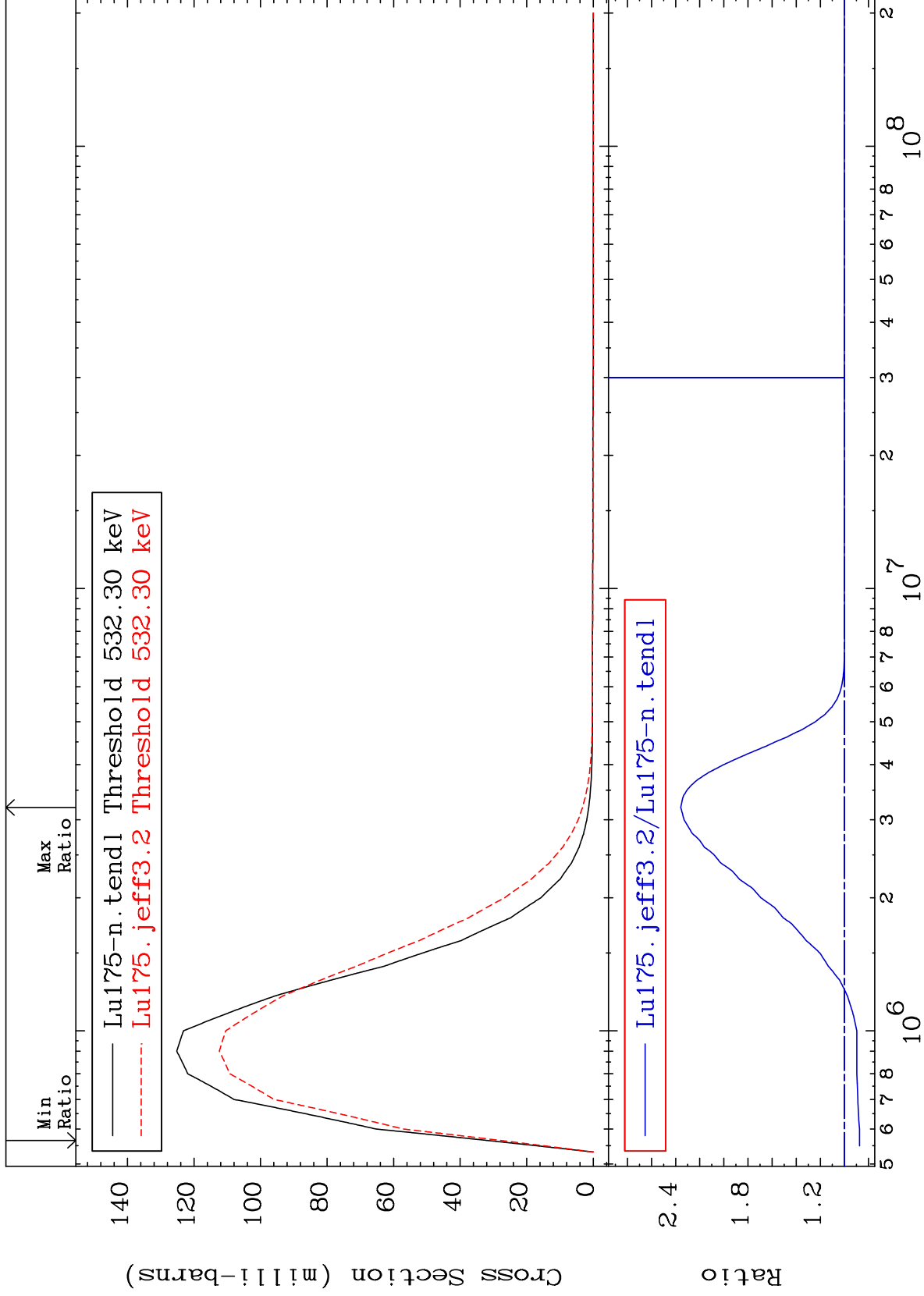
MAT 7125

529.3 keV (n,n') Level

<sup>71</sup>Lu-175

Cross Section

-12.55 To 135.7 %



31

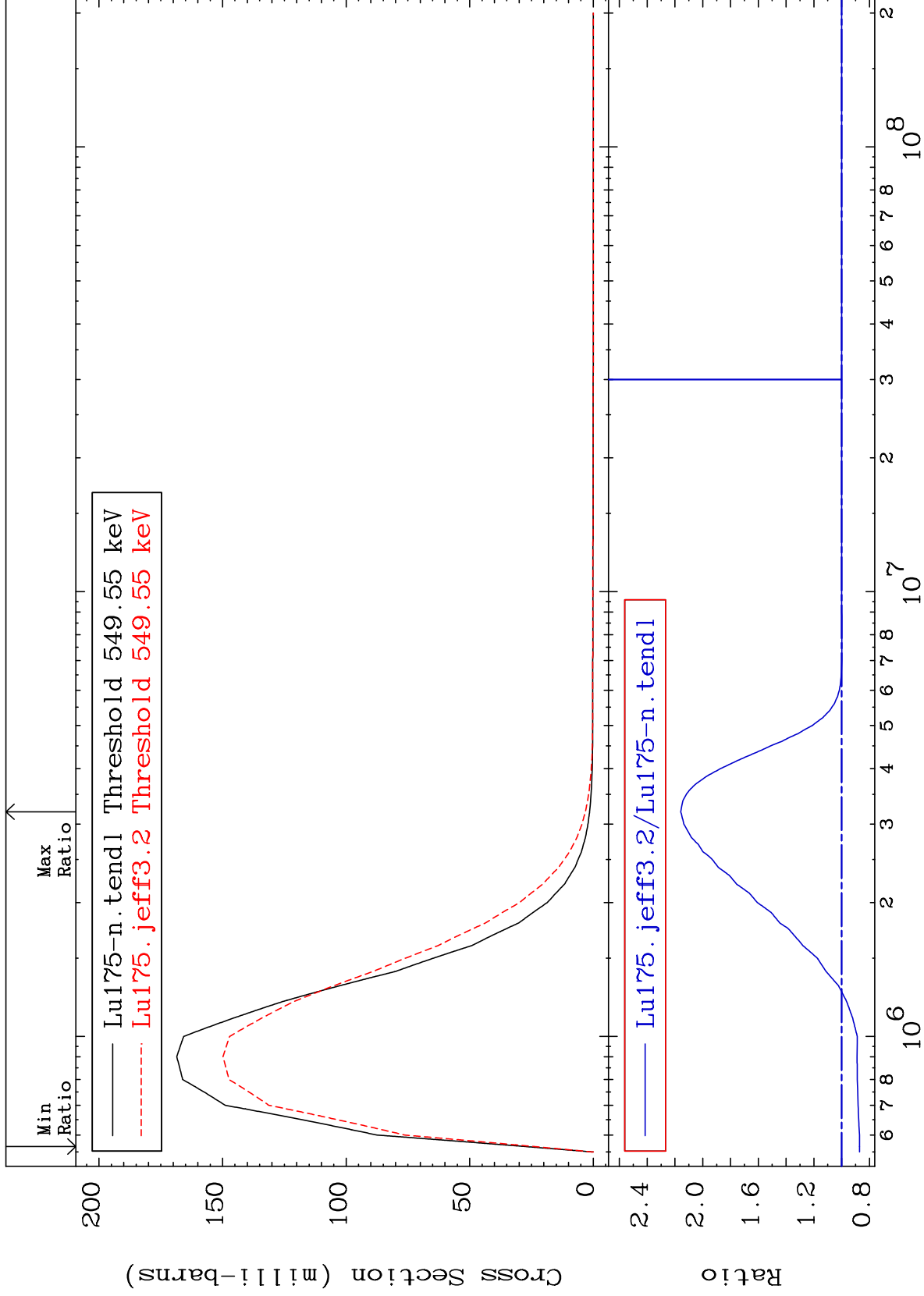
Incident Energy (eV)

<sup>71</sup>Lu-175

MAT 7125

546.4 keV (n,n') Level  
Cross Section

71-Lu-175  
-12.88 To 115.8 %

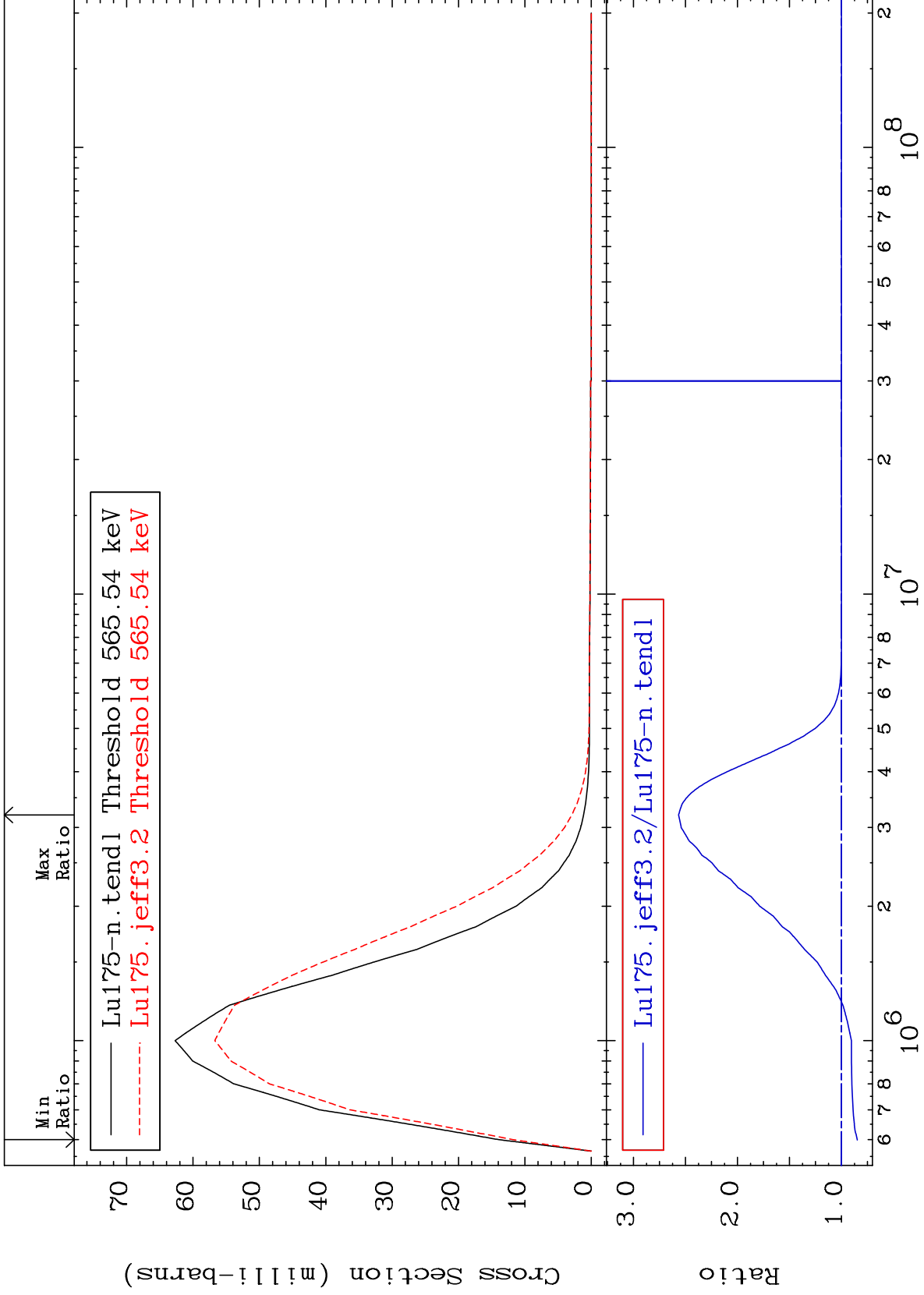




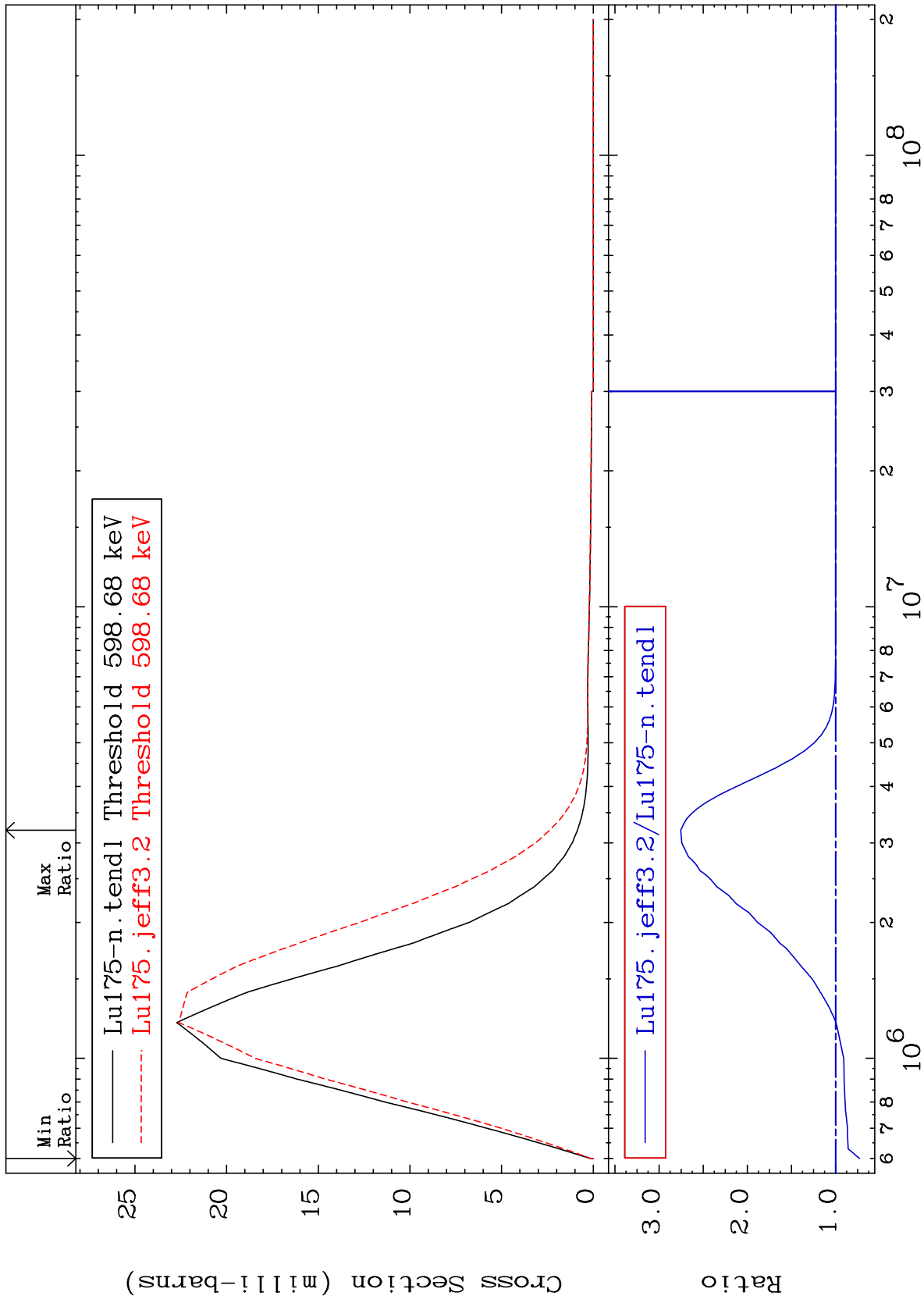
MAT 7125

562.3 keV (n,n') Level  
Cross Section

<sup>71</sup>Lu-<sup>175</sup>  
-15.15 To 156.6 %



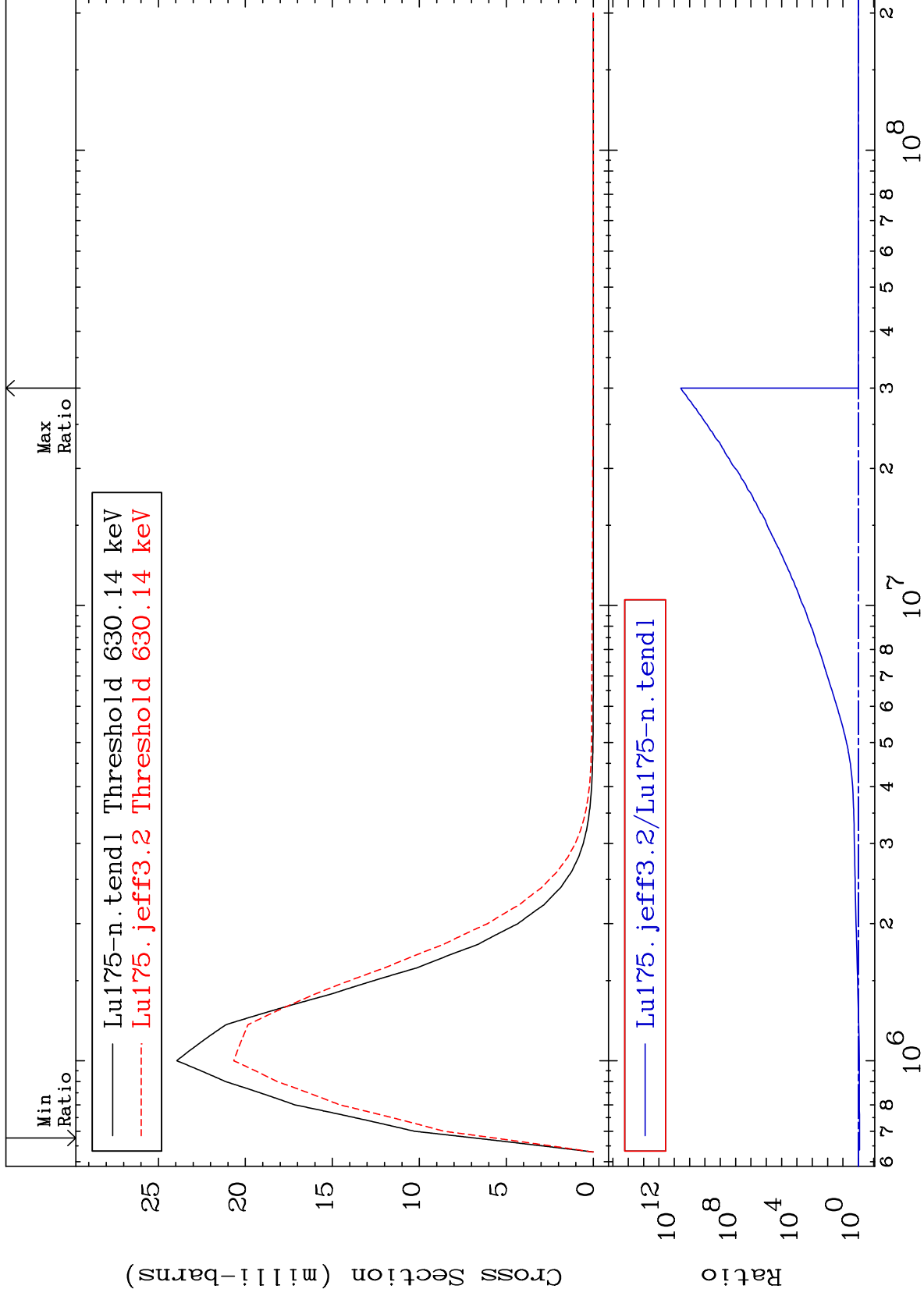
MAT 7125 71-Lu-175  
 595.3 keV (n,n') Level -27.09 To 175.3 %  
 Cross Section



MAT 7125

626.5 keV (n,n') Level  
Cross Section

71-Lu-175  
-16.66 To 9999. %



35

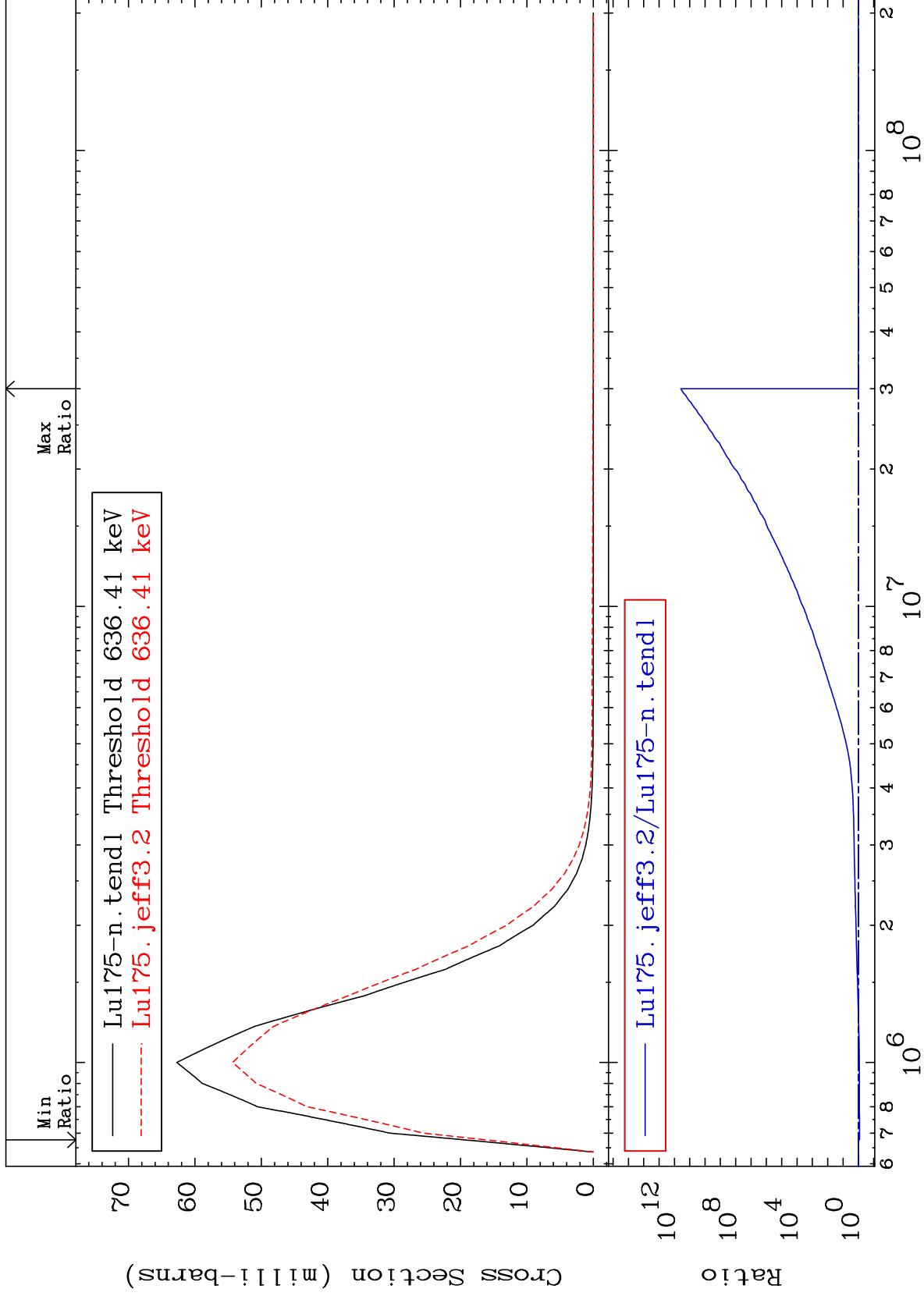
Incident Energy (eV)

71-Lu-175

MAT 7125

632.8 keV (n,n') Level  
Cross Section

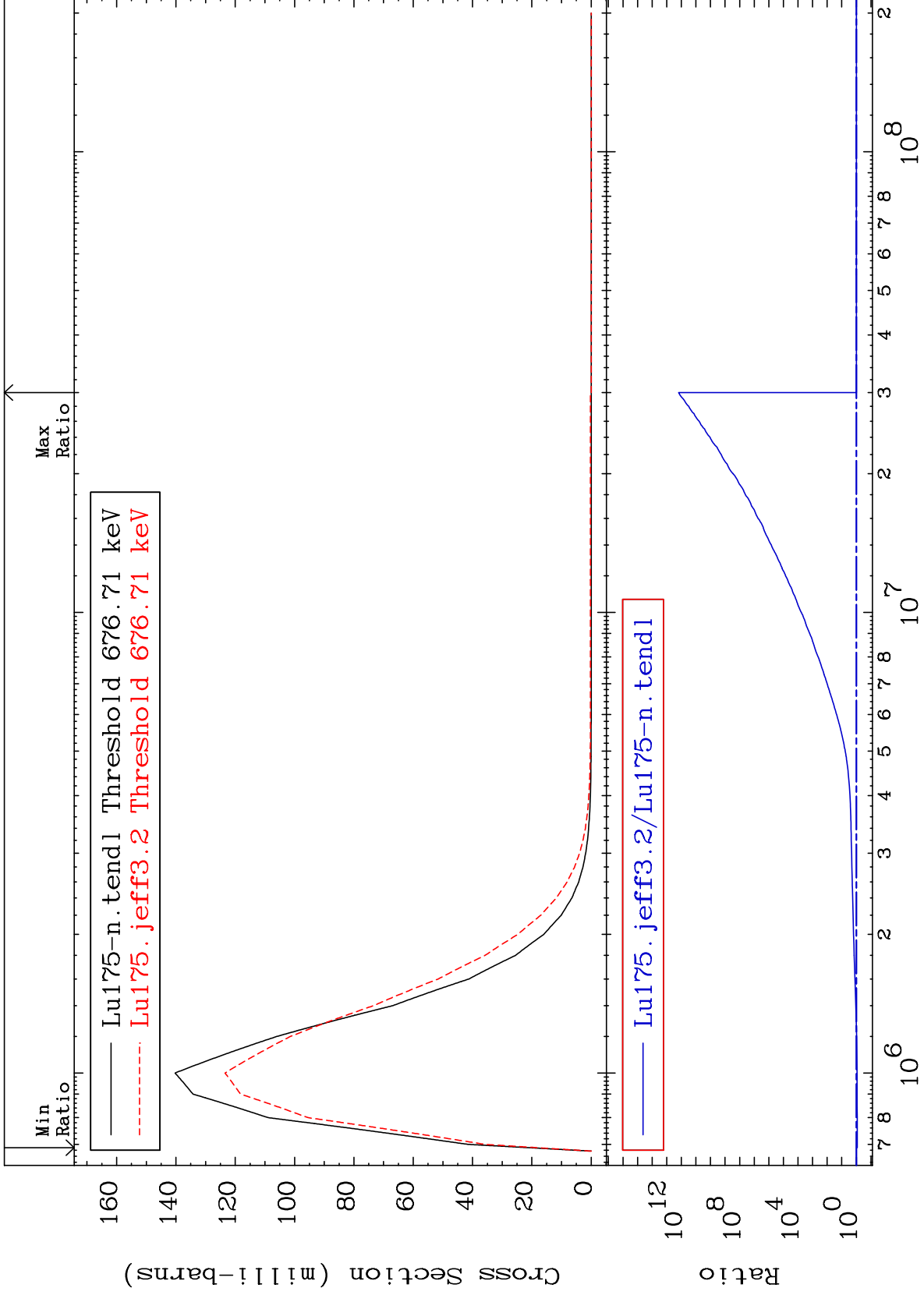
71-Lu-175  
-16.45 To 9999. %



MAT 7125

672.8 keV (n,n') Level  
Cross Section

71-Lu-175  
-13.64 To 9999. %



37

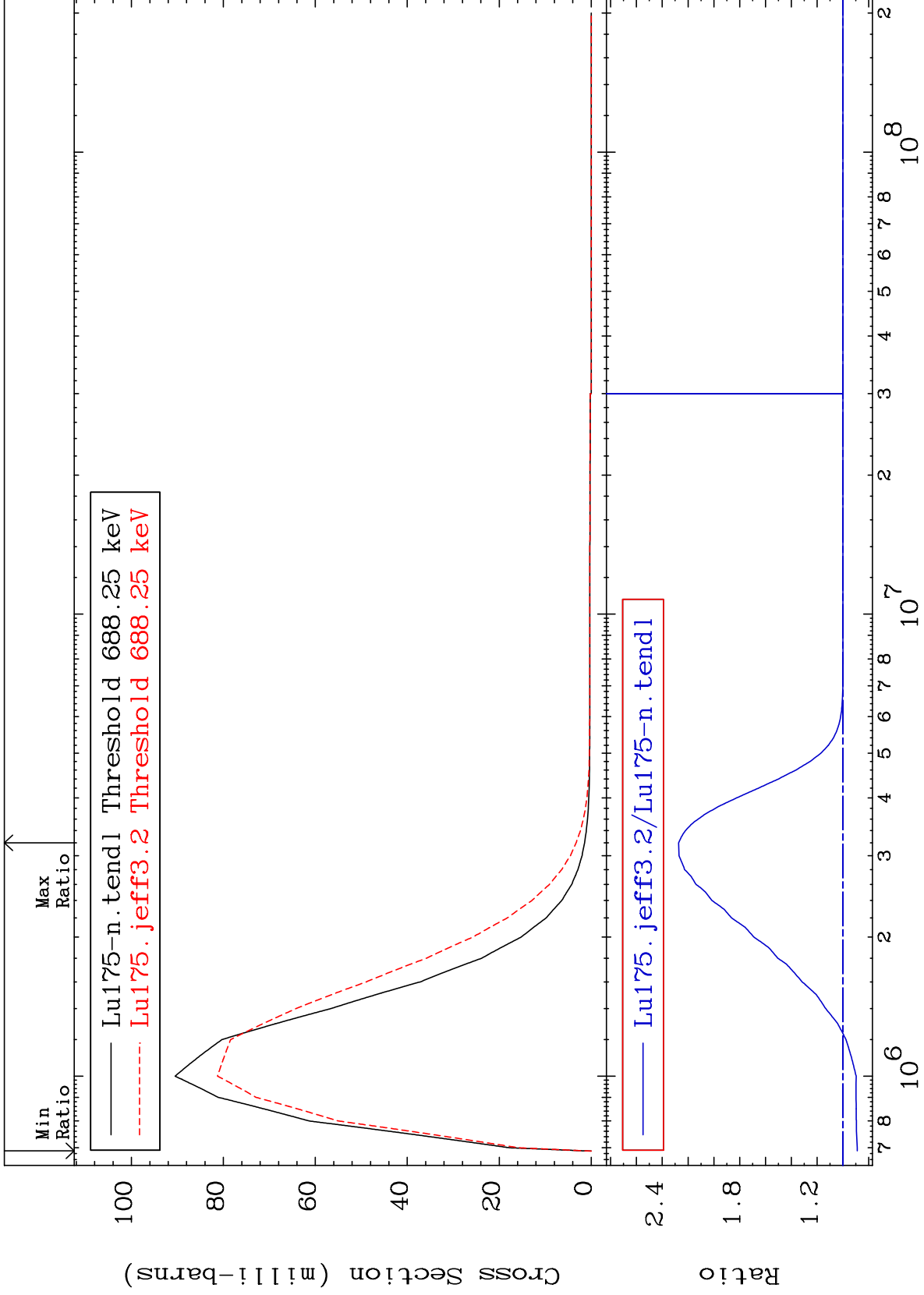
Incident Energy (eV)

71-Lu-175

MAT 7125

684.3 keV (n,n') Level  
Cross Section

71-Lu-175  
-11.08 To 127.3 %



38

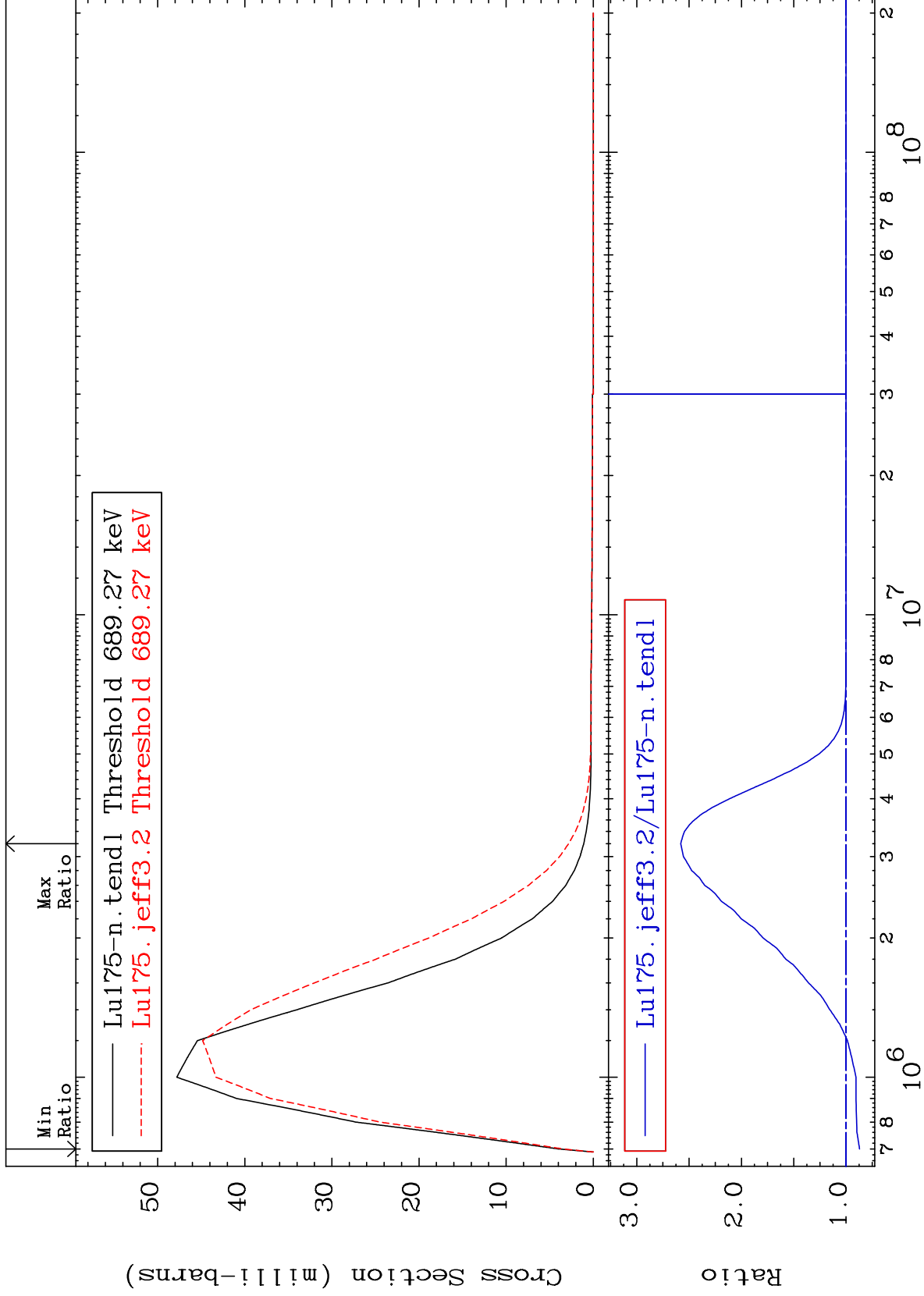
Incident Energy (eV)

71-Lu-175

MAT 7125

685.3 keV (n,n') Level  
Cross Section

71-Lu-175  
-12.86 To 157.9 %



39

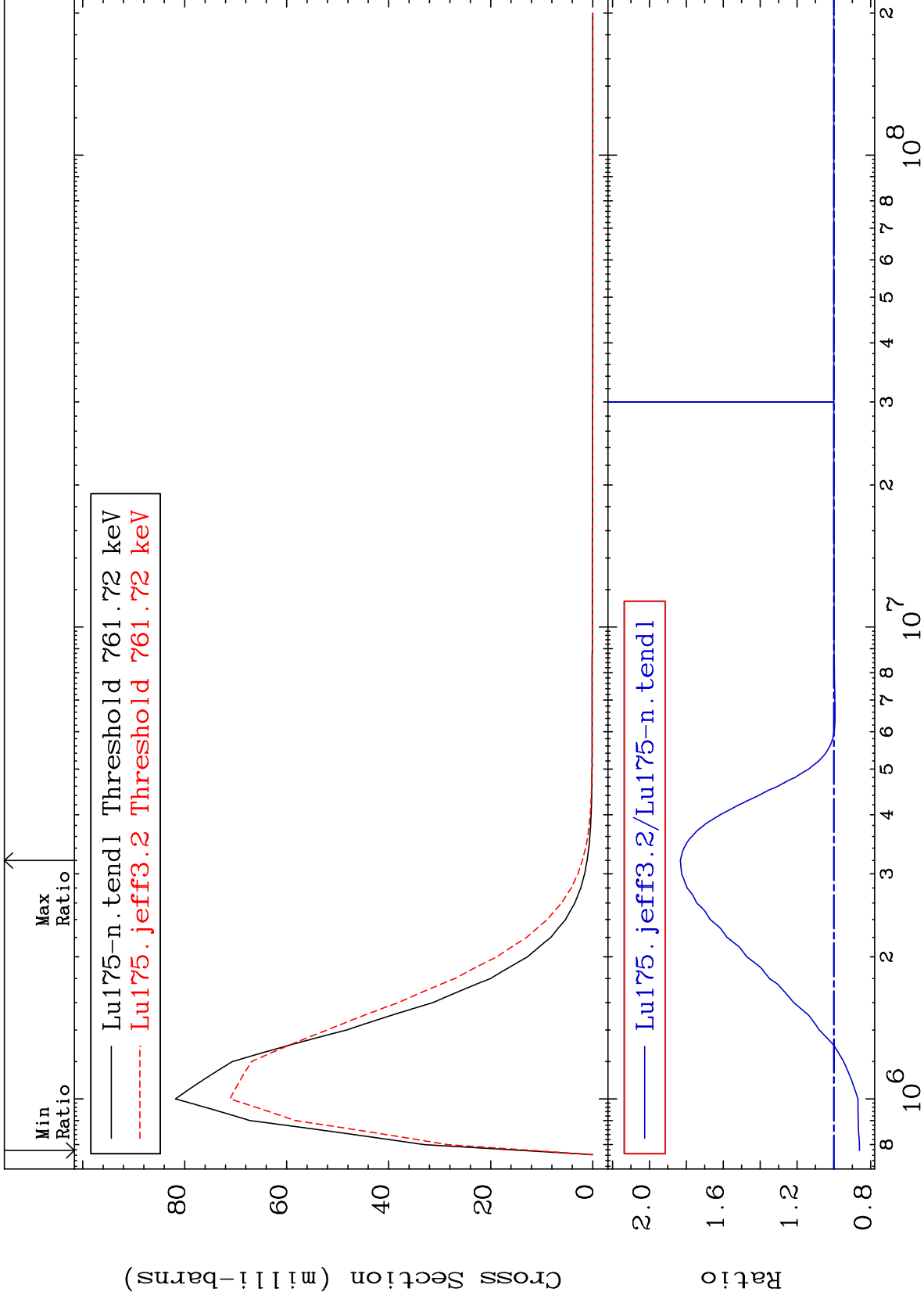
Incident Energy (eV)

71-Lu-175

MAT 7125

757.4 keV (n,n') Level  
Cross Section

71-Lu-175  
-13.85 To 83.23 %



40

Incident Energy (eV)

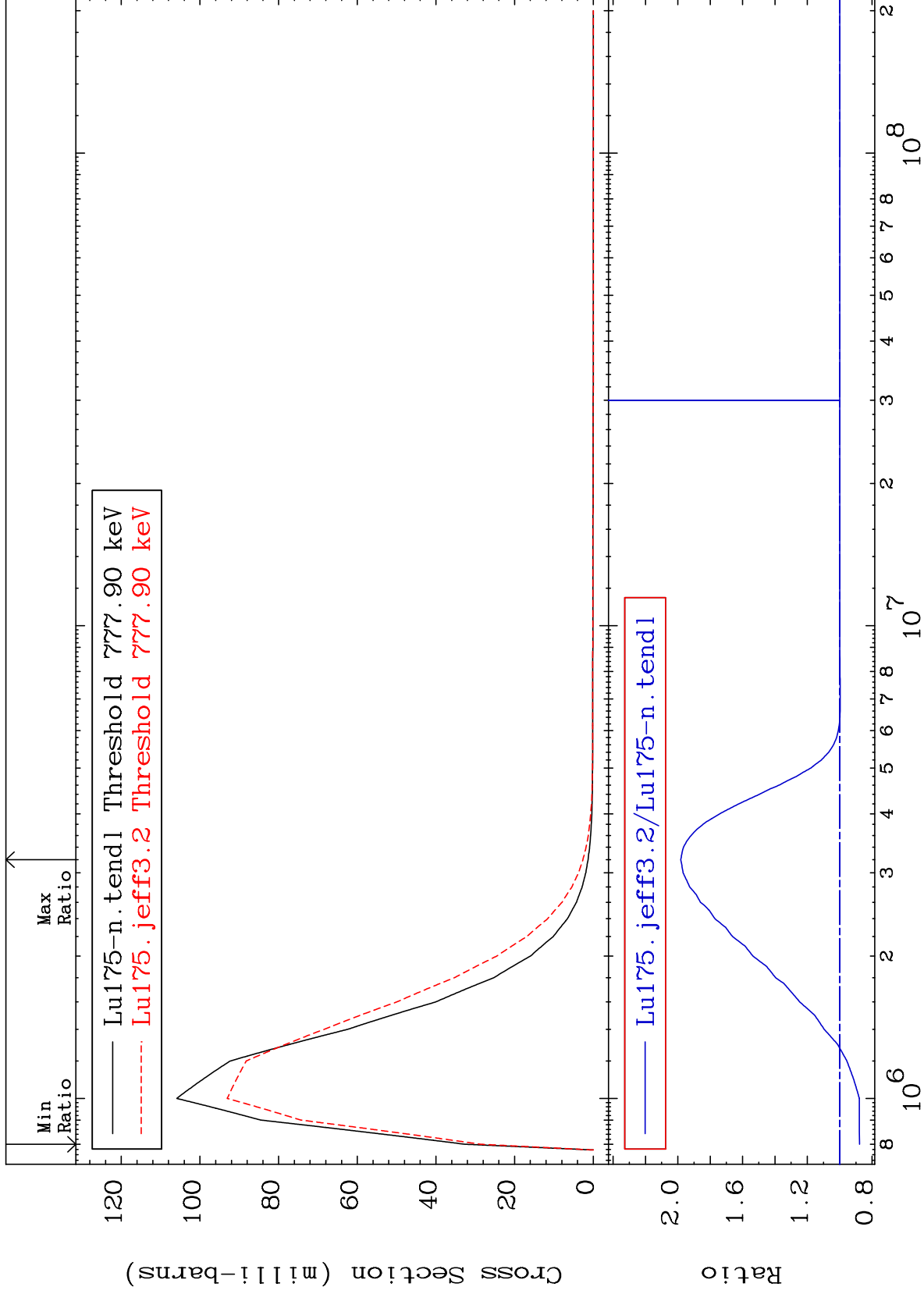
71-Lu-175



MAT 7125

773.4 keV (n,n') Level  
Cross Section

71-Lu-175  
-12.25 To 98.19 %



41

Incident Energy (eV)

71-Lu-175

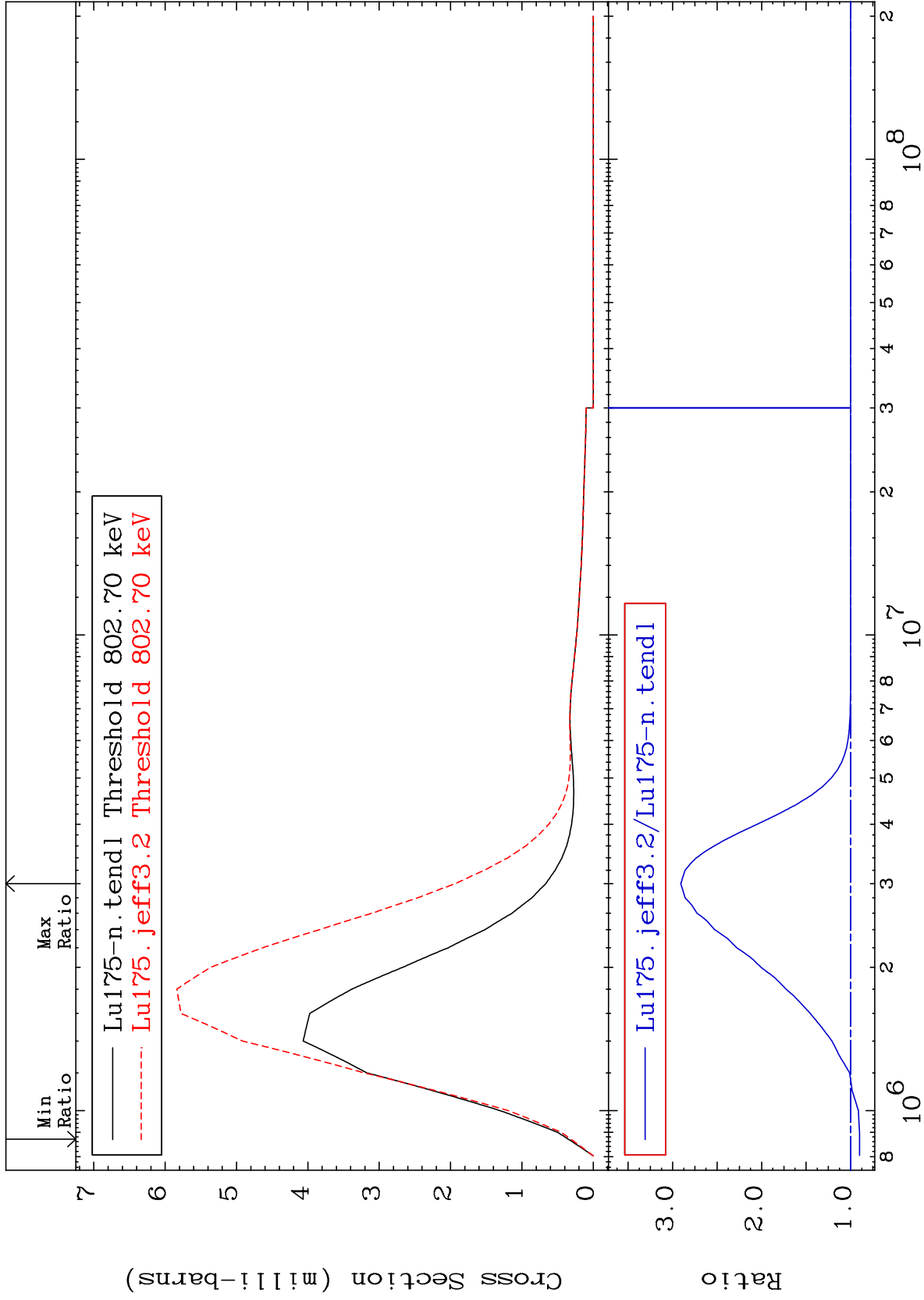
MAT 7125

798.1 keV (n,n') Level

71-Lu-175

Cross Section

-10.01 To 190.9 %



42

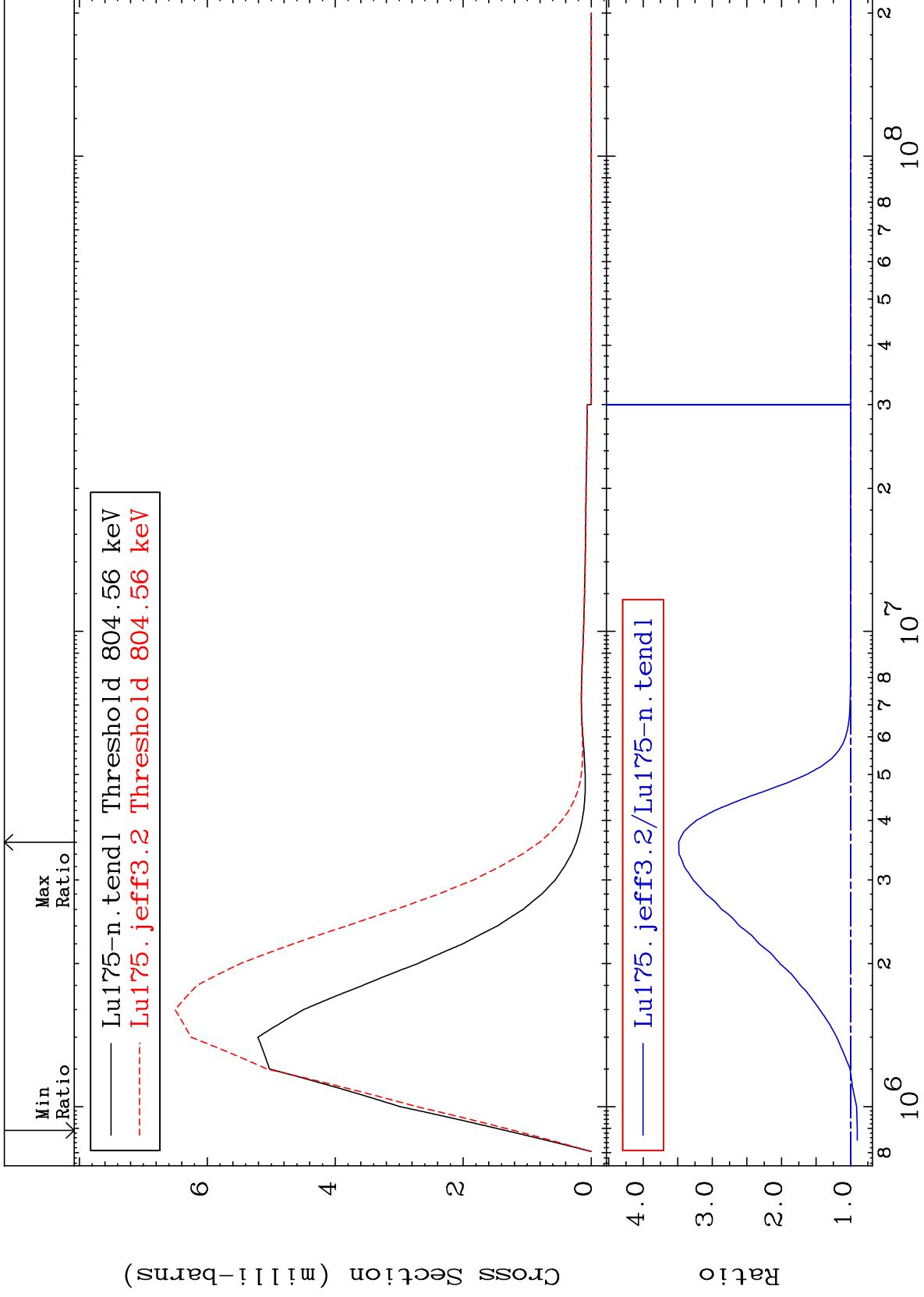
Incident Energy (eV)

71-Lu-175

MAT 7125

799.9 keV (n,n') Level  
Cross Section

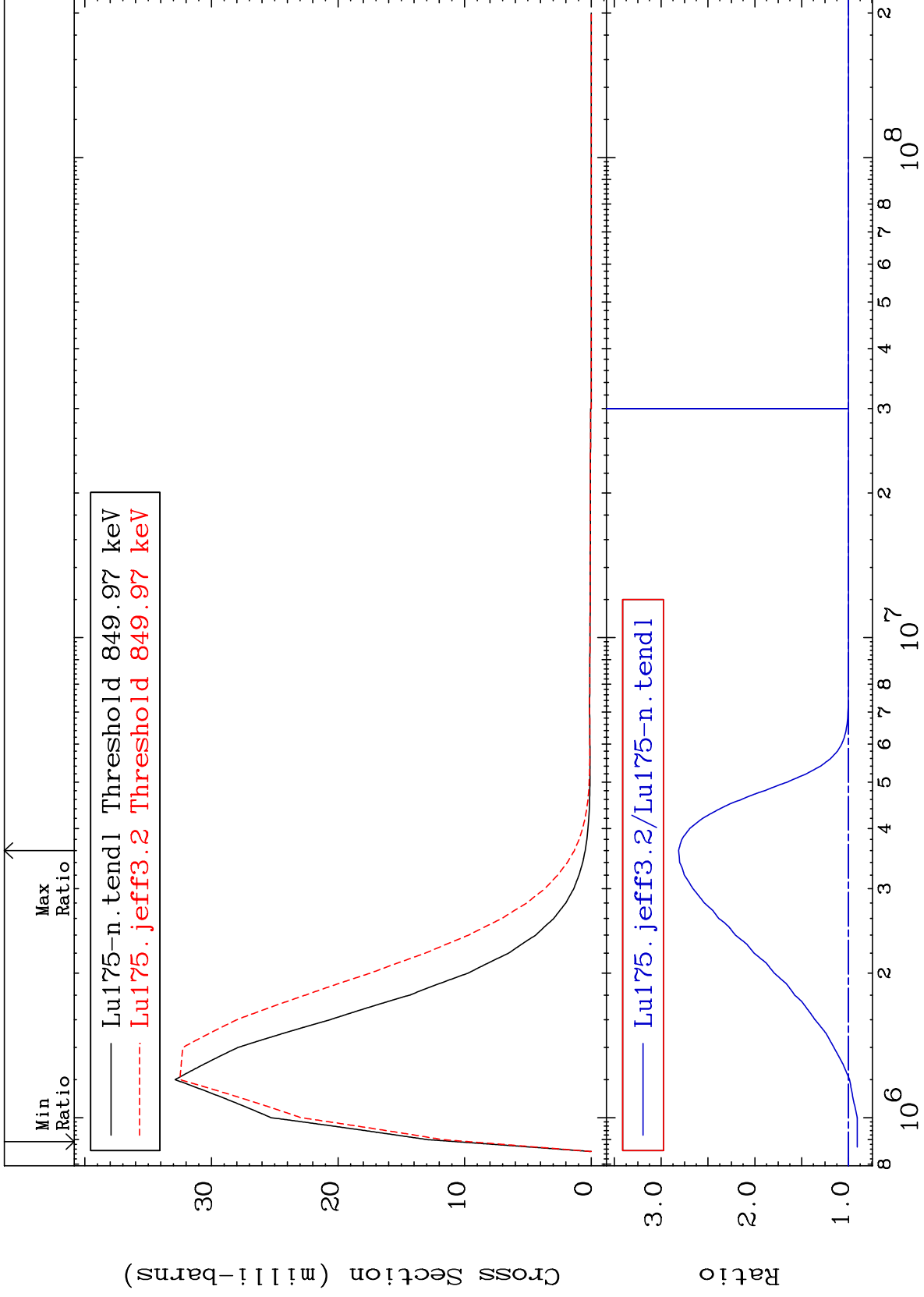
71-Lu-175  
-9.615 To 248.7 %



MAT 7125

845.1 keV (n,n') Level  
Cross Section

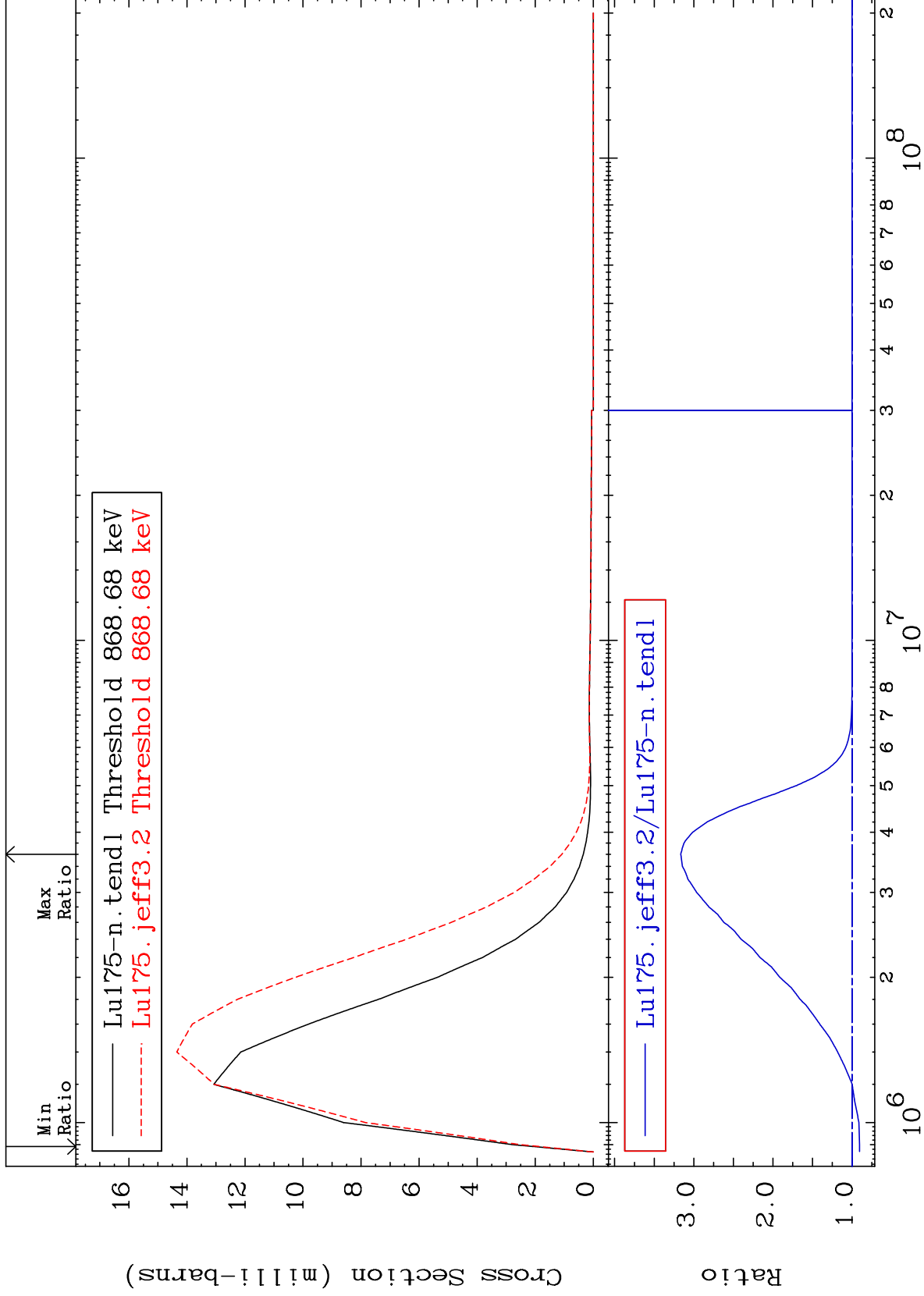
71-Lu-175  
-9.376 To 181.4 %



MAT 7125

863.7 keV (n,n') Level  
Cross Section

71-Lu-175  
-9.438 To 216.4 %



45

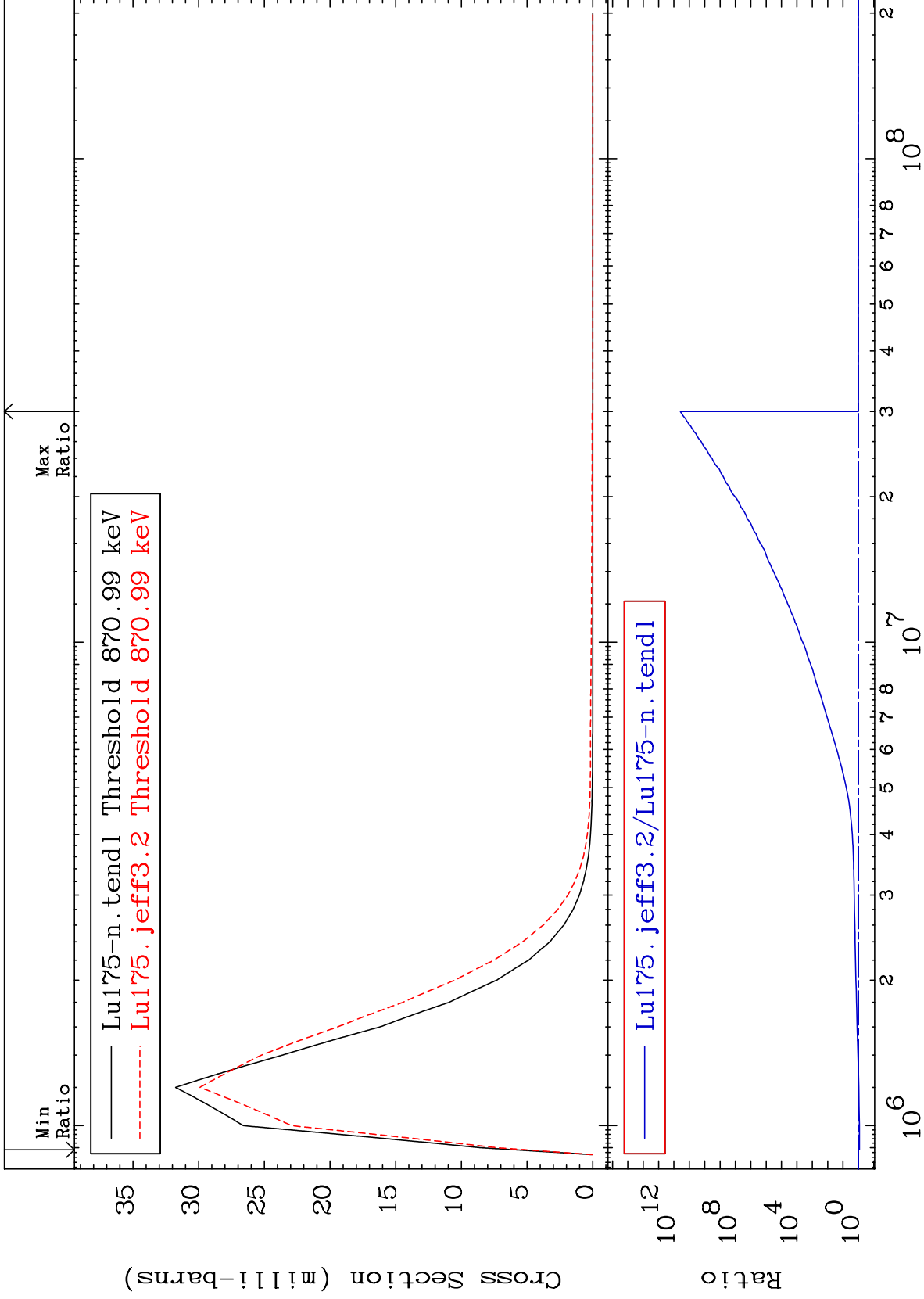
Incident Energy (eV)

71-Lu-175

MAT 7125

866.0 keV (n,n') Level  
Cross Section

71-Lu-175  
-14.57 To 9999. %



46

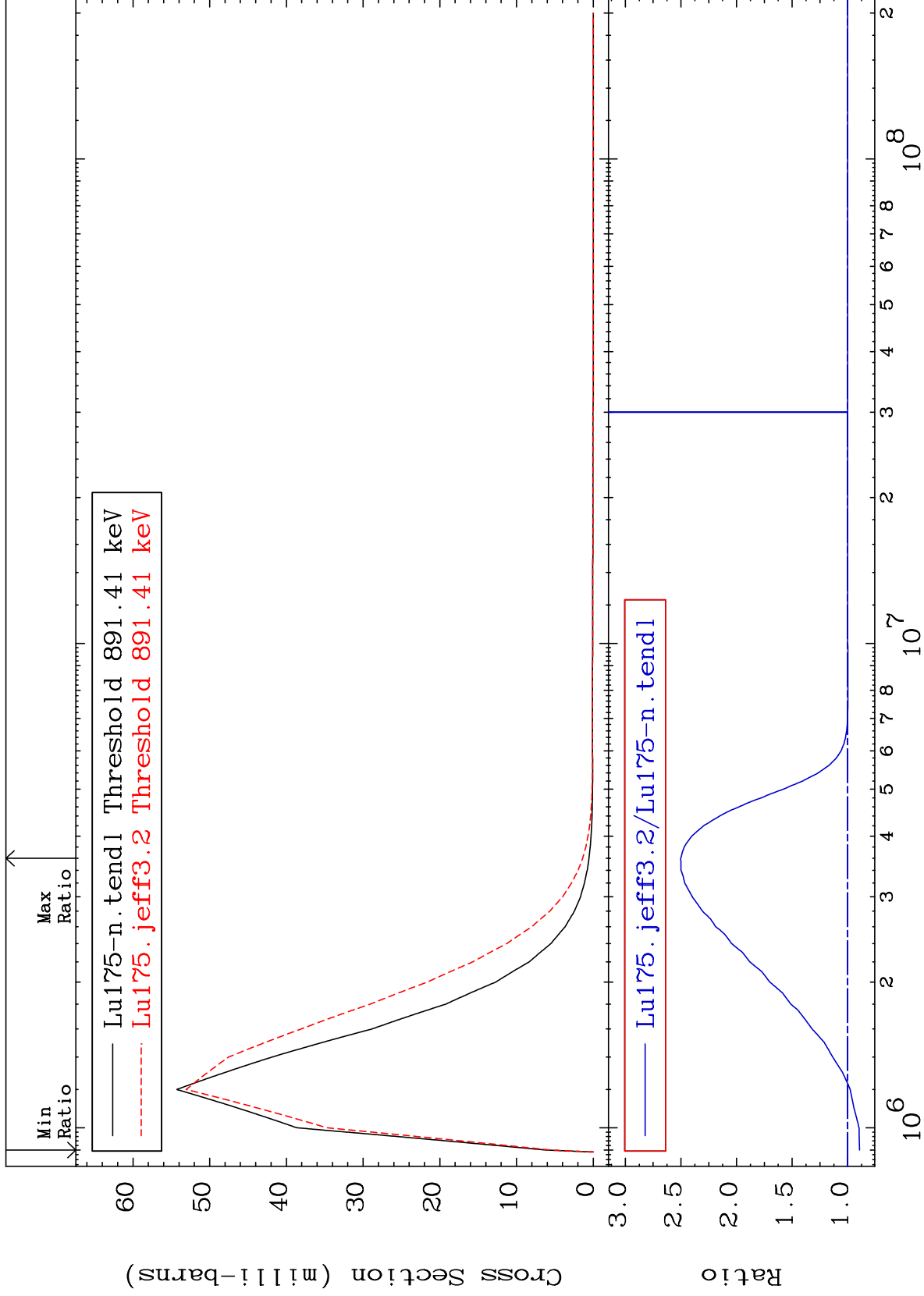
Incident Energy (eV)

71-Lu-175

MAT 7125

886.3 keV (n,n') Level  
Cross Section

71-Lu-175  
-10.61 To 150.2 %



47

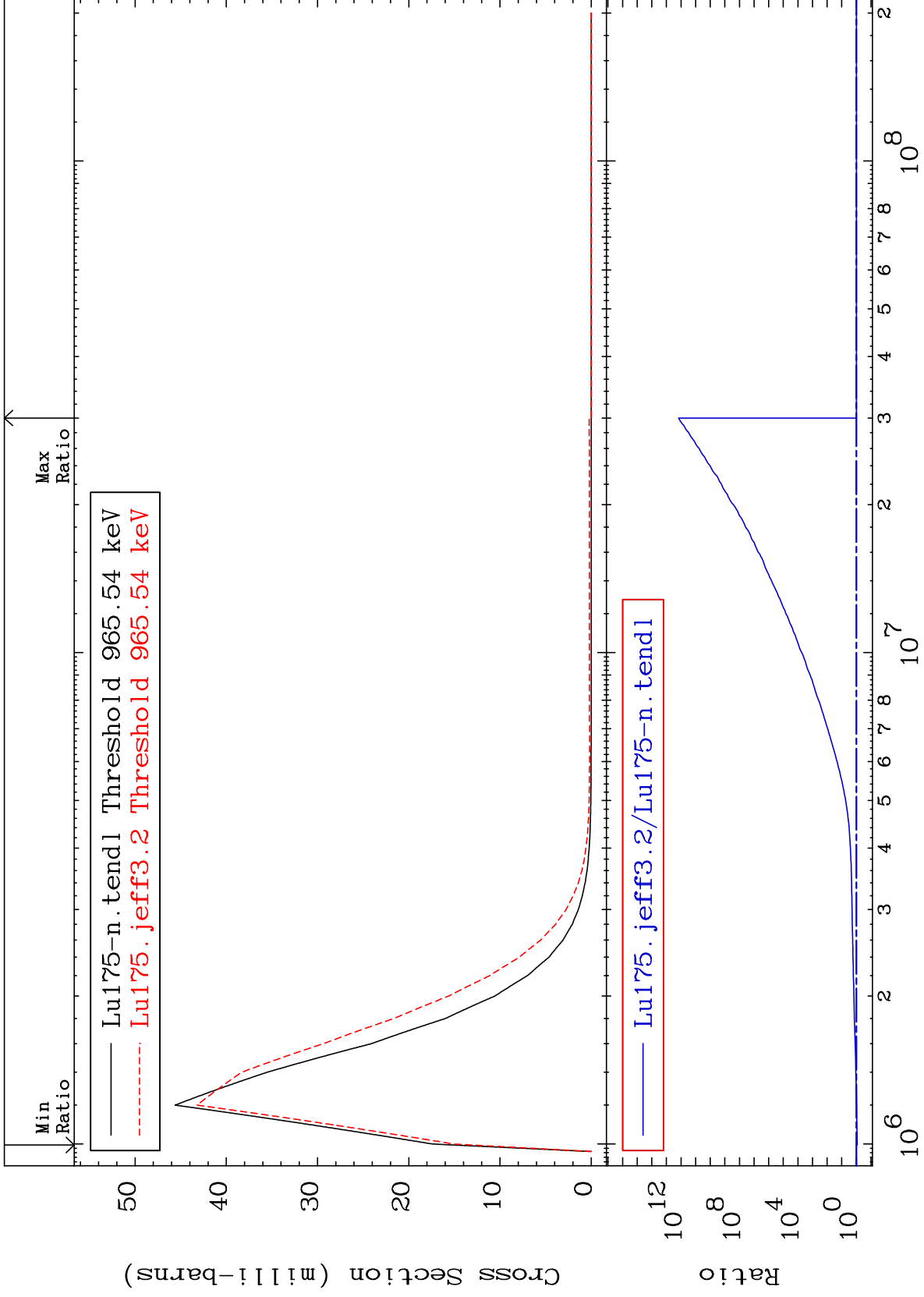
Incident Energy (eV)

71-Lu-175

MAT 7125

960.0 keV (n,n') Level  
Cross Section

71-Lu-175  
-13.51 To 9999. %



48

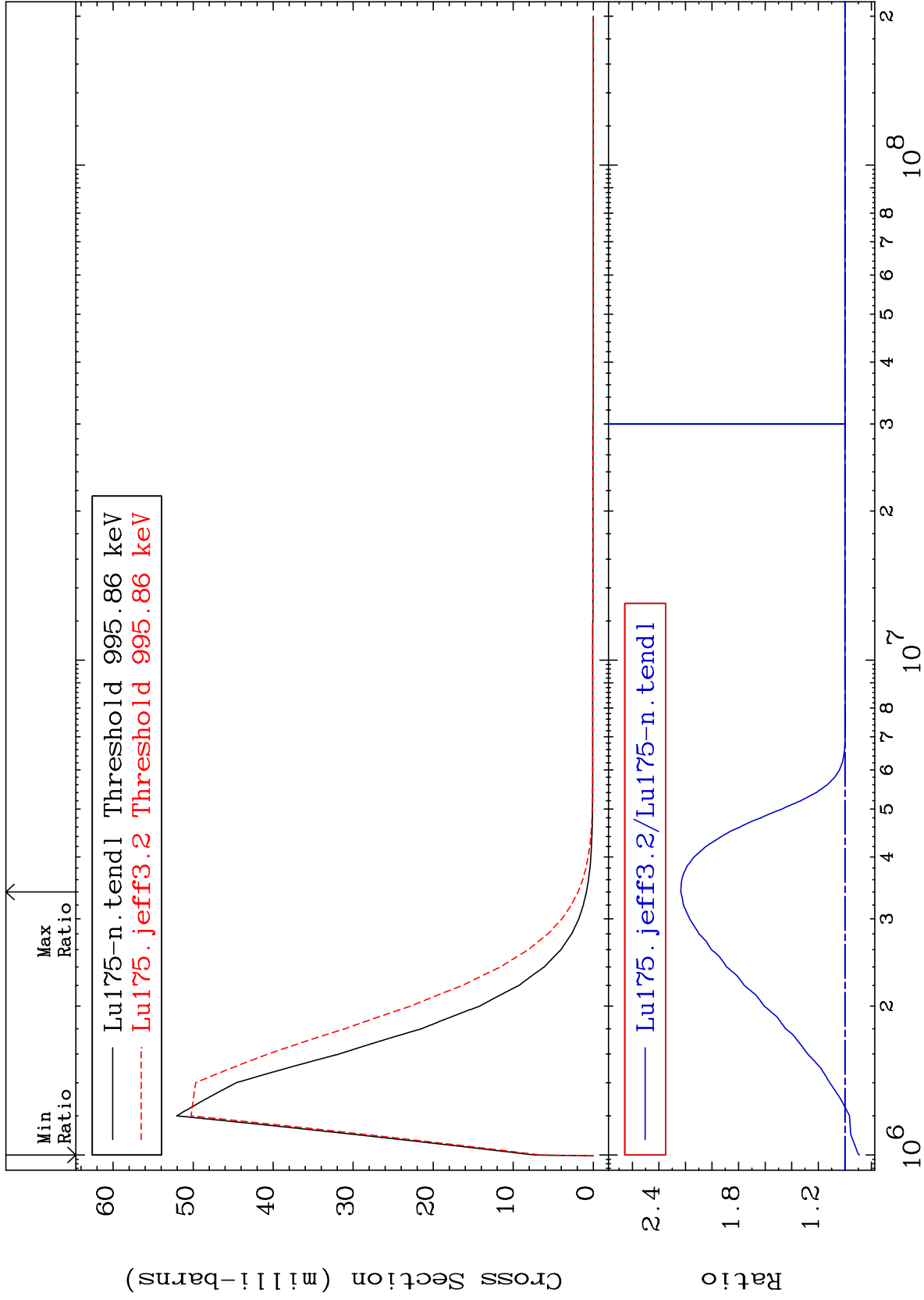
71-Lu-175



MAT 7125

990.2 keV (n,n') Level  
Cross Section

71-Lu-175  
-11.01 To 123.5 %



49

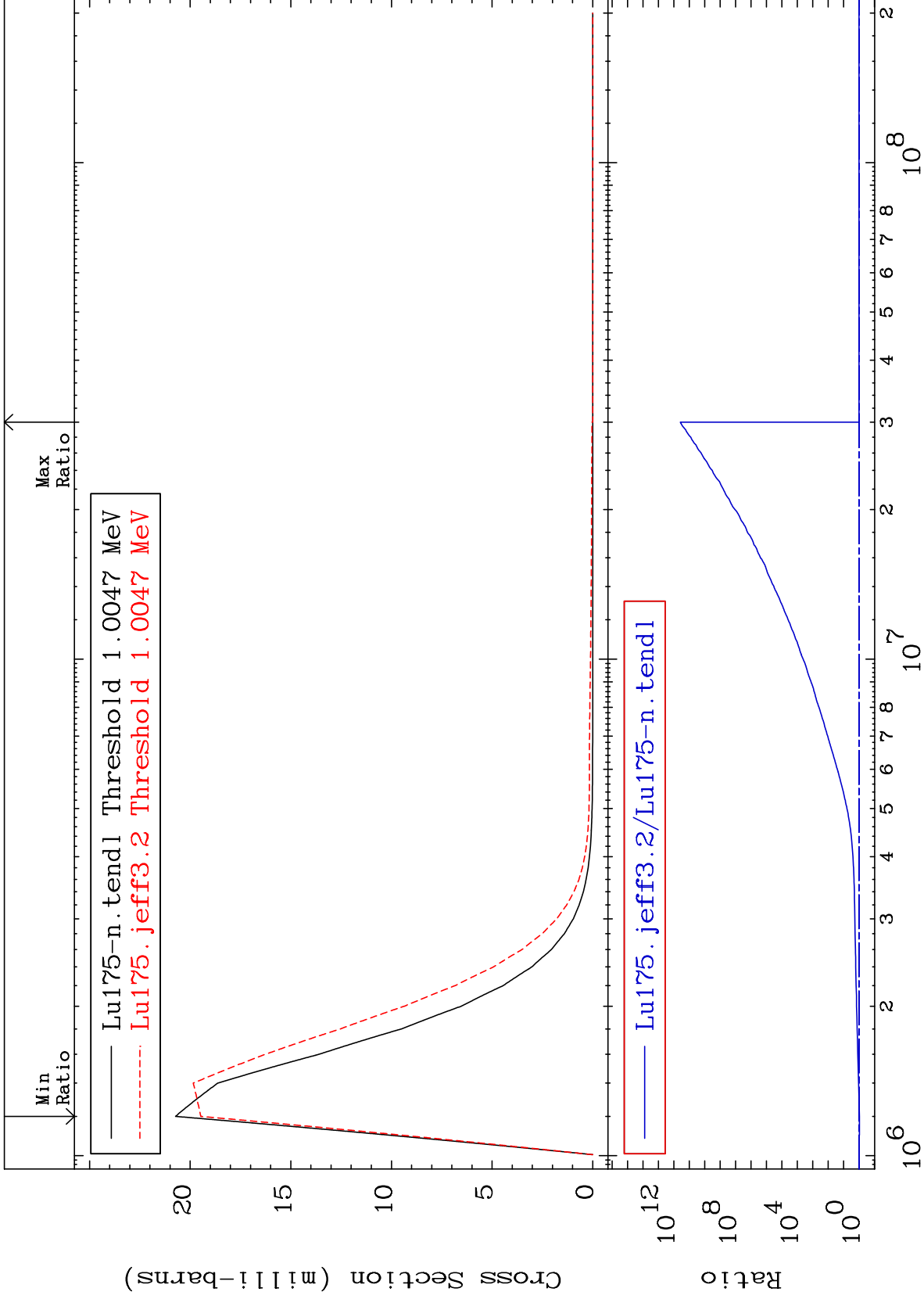
Incident Energy (eV)

71-Lu-175

MAT 7125

998.9 keV (n,n') Level  
Cross Section

71-Lu-175  
-6.060 To 9999. %



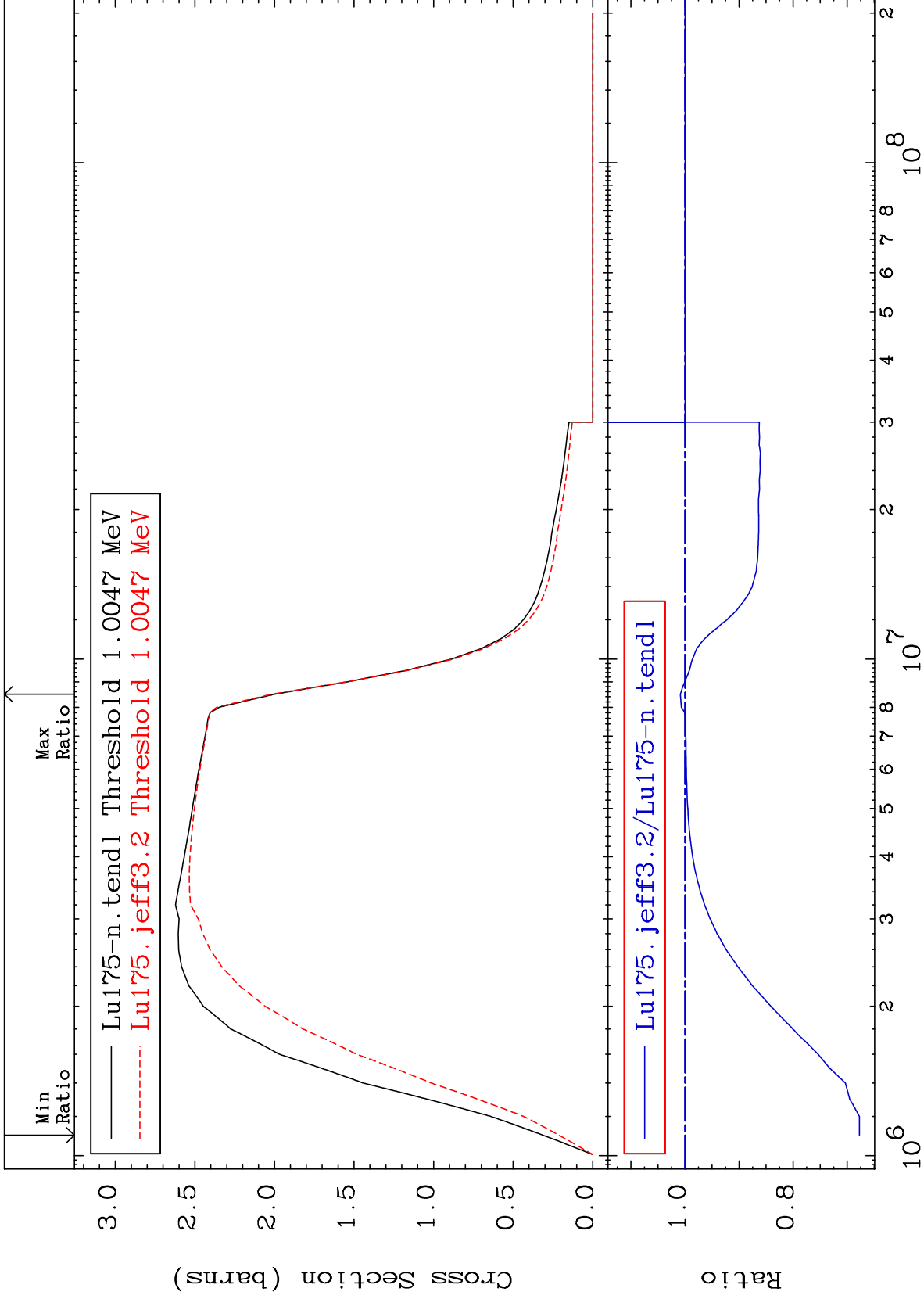
71-Lu-175

50

MAT 7125

(n, n') Continuum  
Cross Section

<sup>71</sup>Lu-<sup>175</sup>  
-32.26 To 0.860 %



51

Incident Energy (eV)

<sup>71</sup>Lu-<sup>175</sup>

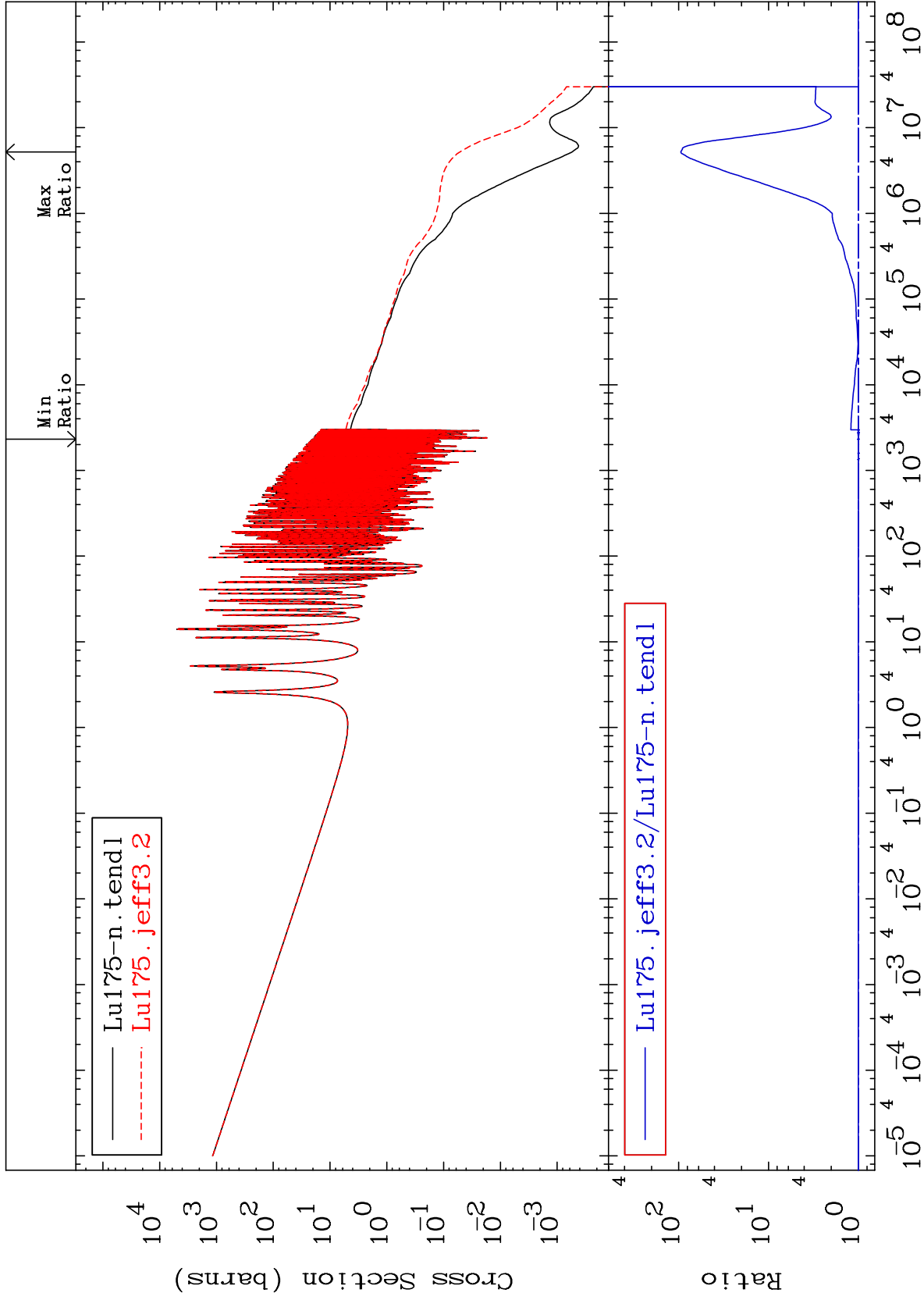
MAT 7125

(n,  $\gamma$ )

71-Lu-175

Cross Section

-2.919 To 9360. %



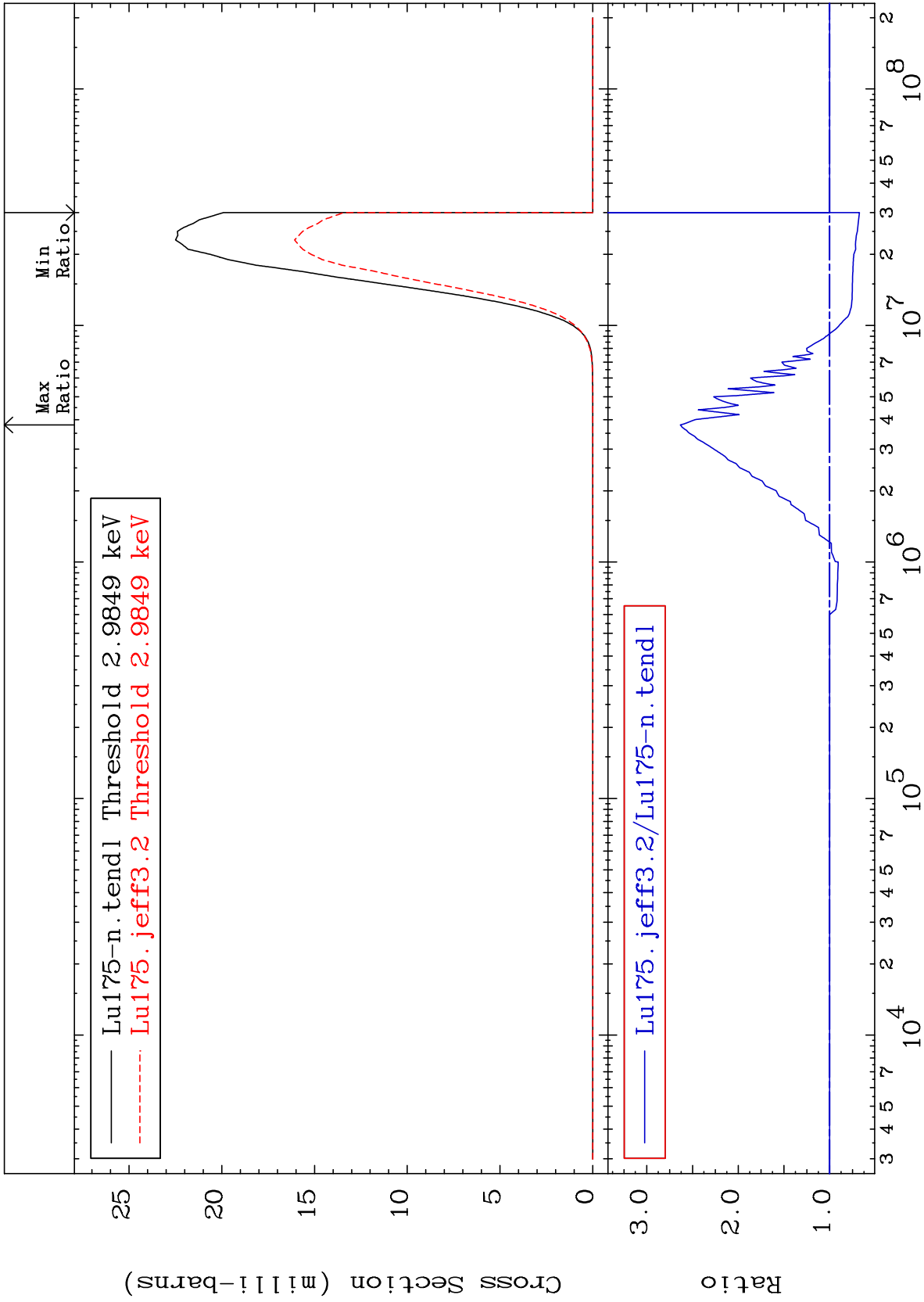
MAT 7125

(n, p)

Cross Section

71-Lu-175

-32.50 To 163.3 %



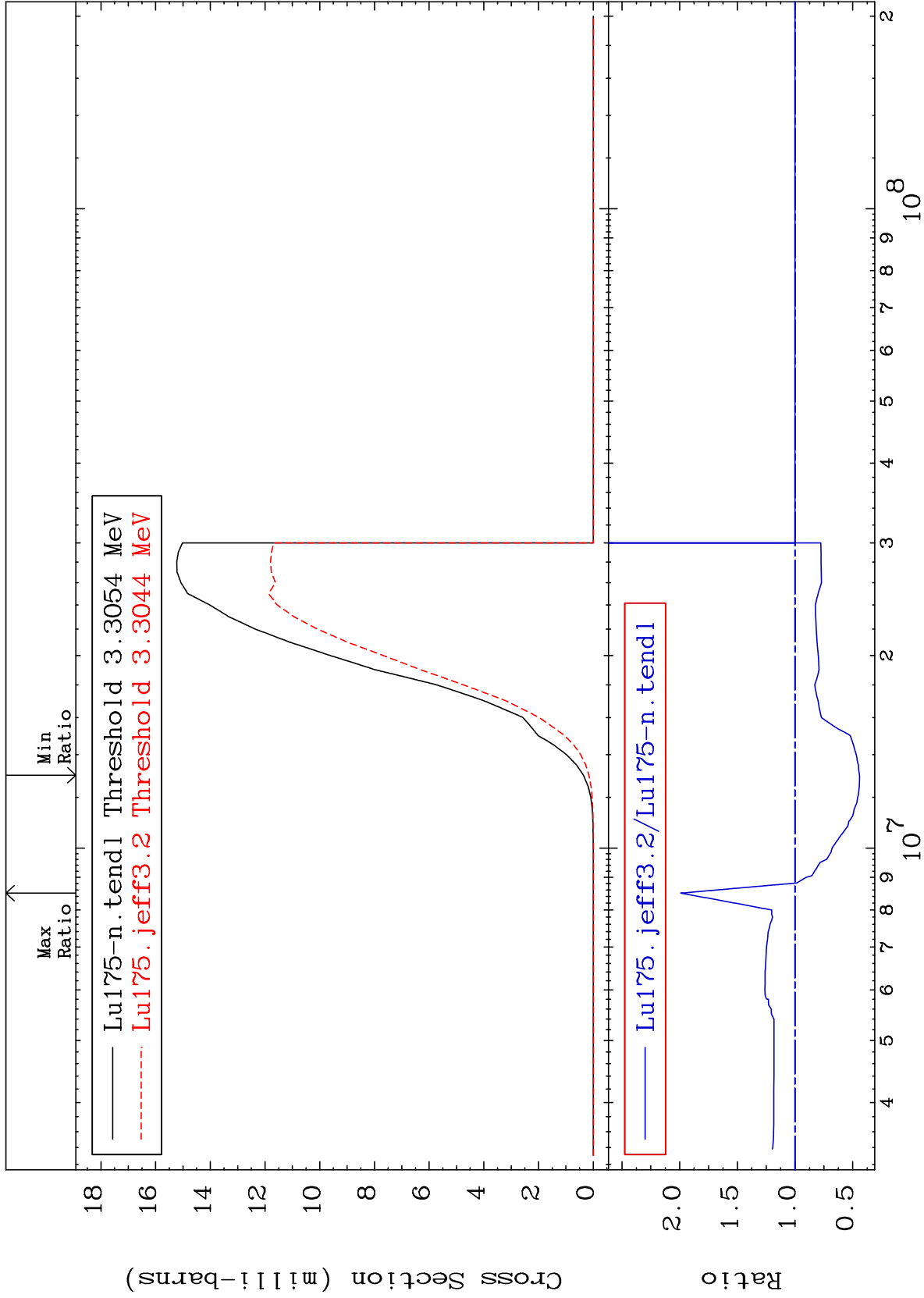
MAT 7125

(n, d)

<sup>71</sup>Lu-<sup>175</sup>

Cross Section

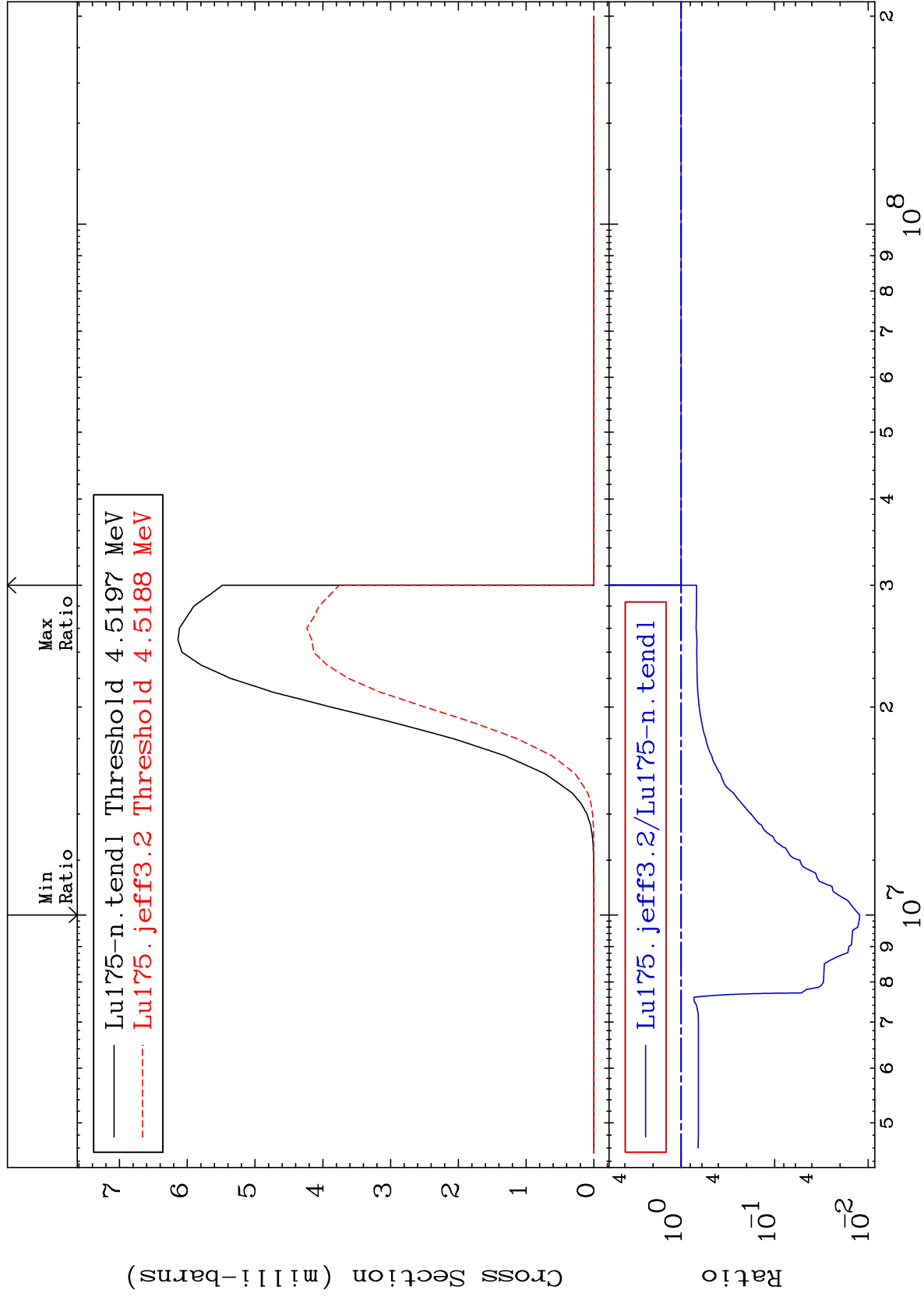
-55.87 To 99.05 %



MAT 7125

<sup>71</sup>Lu-175

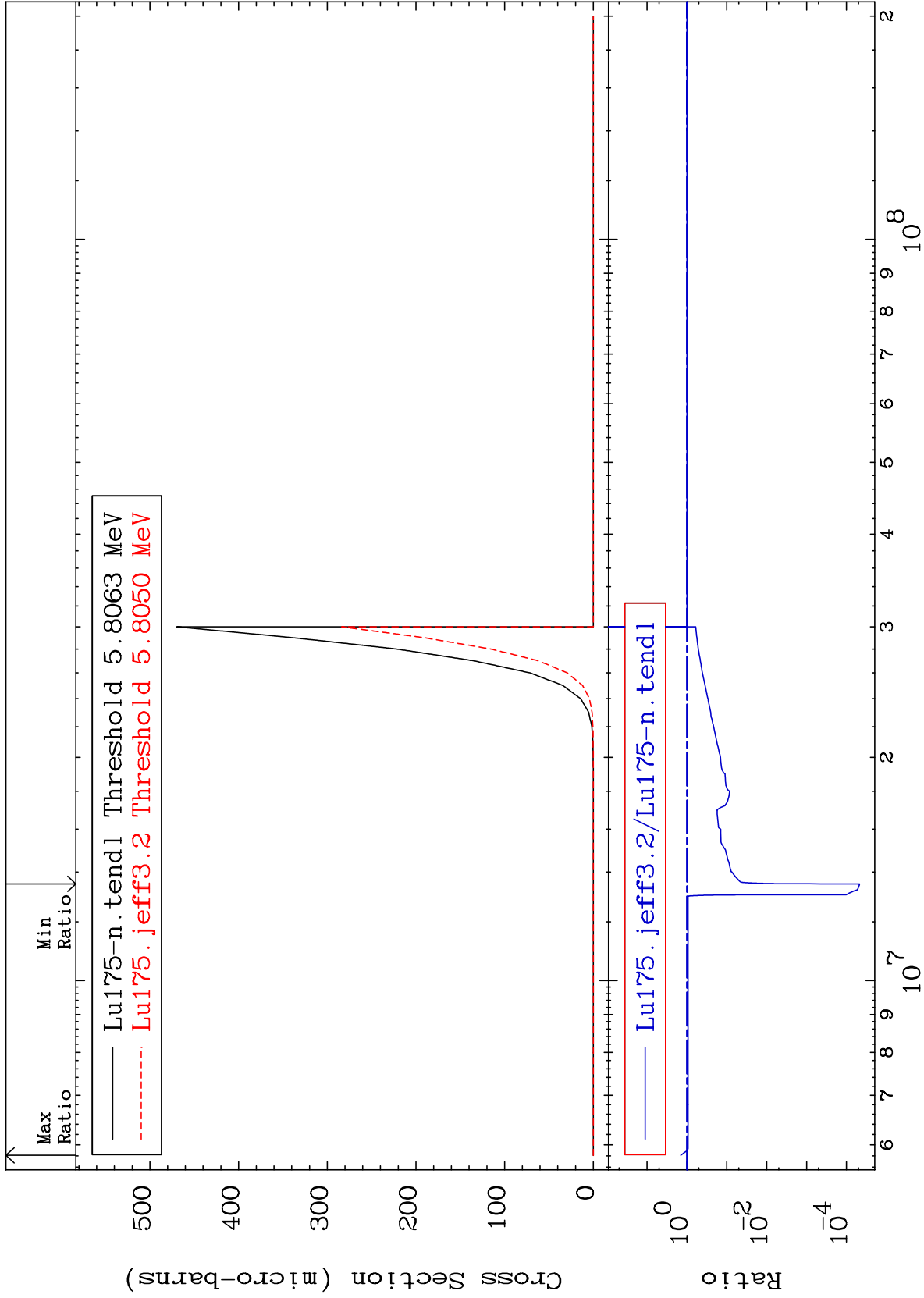
(n, t)  
Cross Section  
-98.77 To 0.000 %



MAT 7125

(n, He-3)  
Cross Section

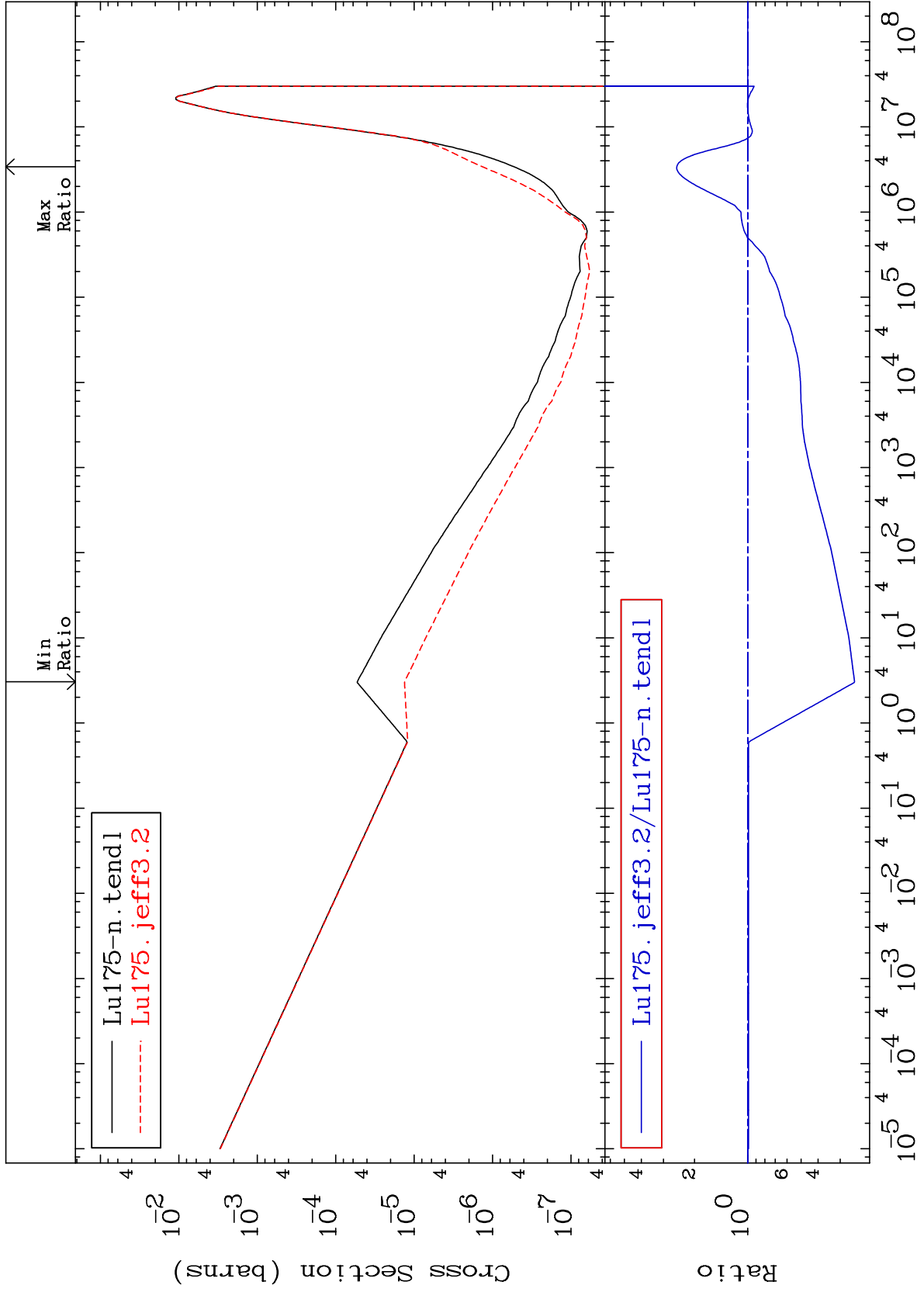
71-Lu-175  
-100.0 To 42.72 %





MAT 7125

(n,  $\alpha$ )  
Cross Section  
71-Lu-175  
-75.10 To 152.3 %



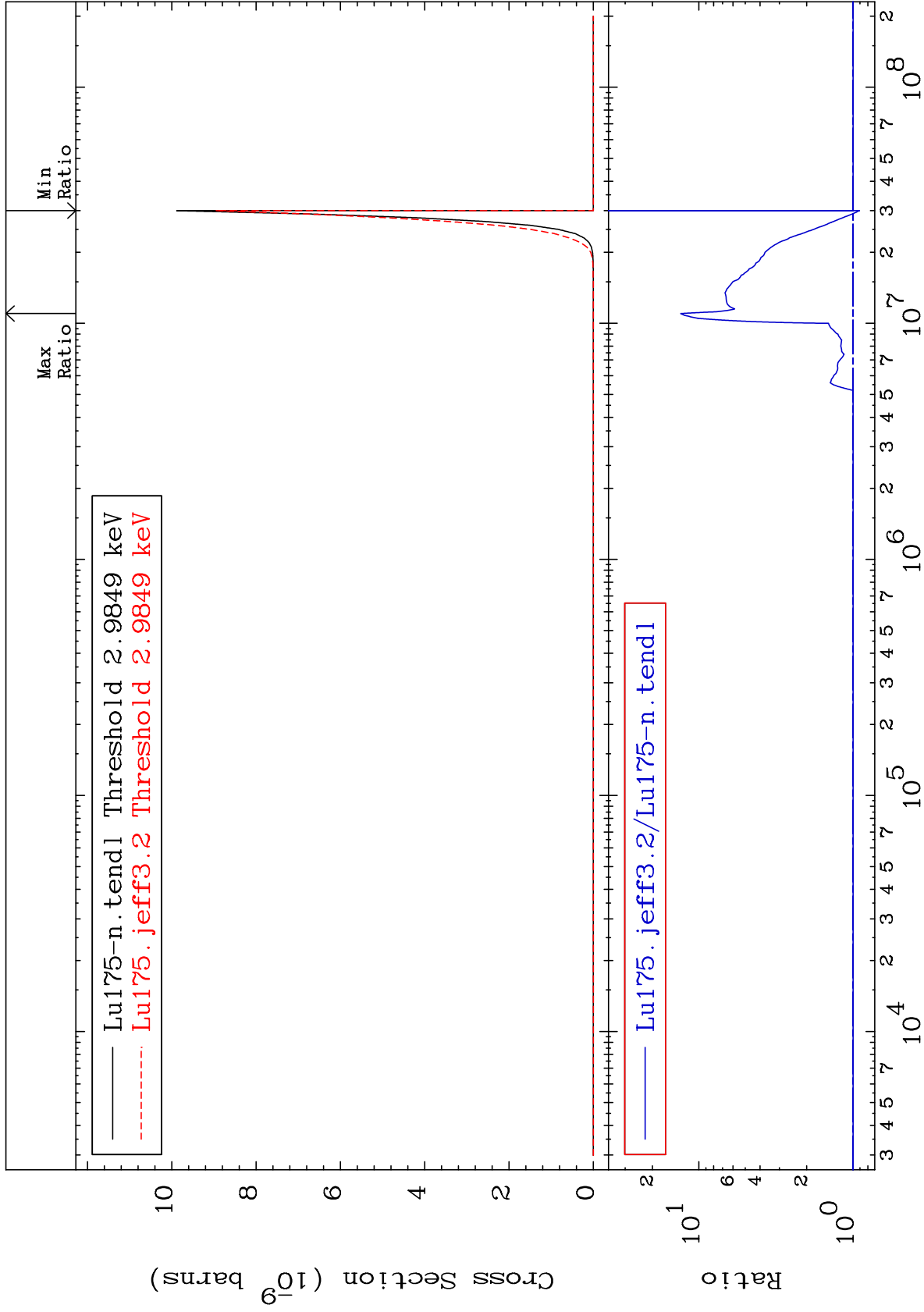
MAT 7125

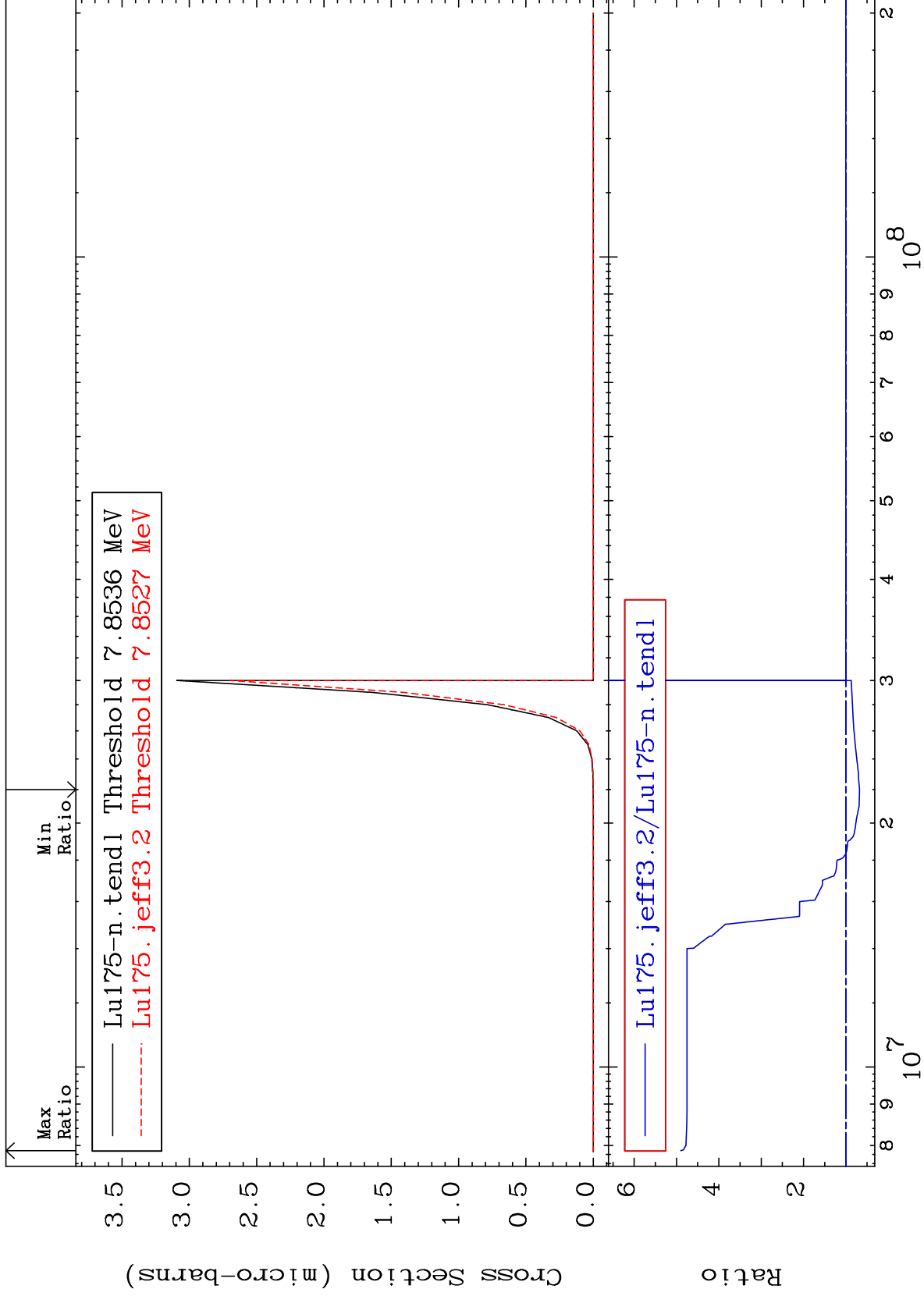
(n,2α)

Cross Section

71-Lu-175

-9.322 To 1208. %

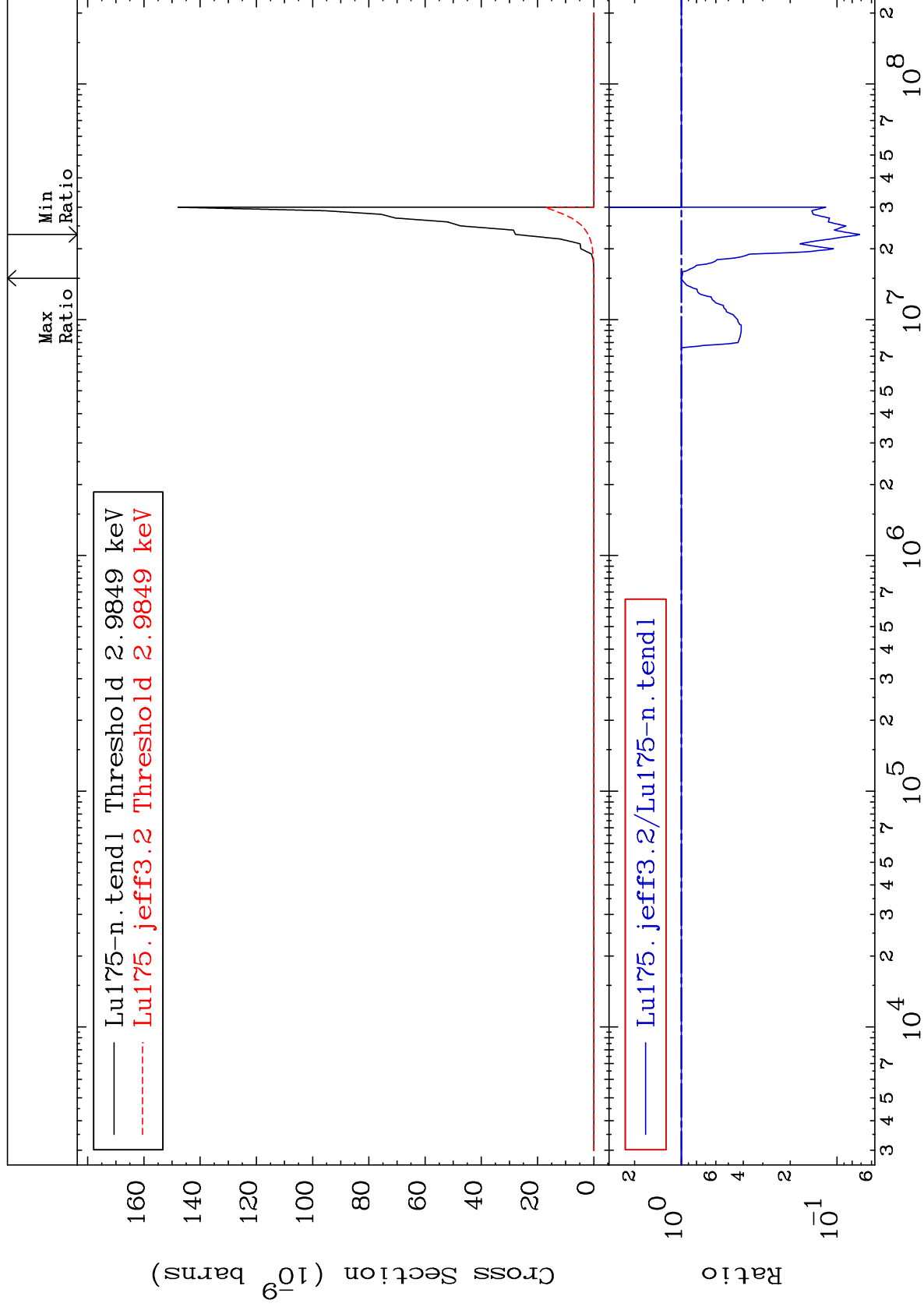




MAT 7125

(n, p)  $\alpha$   
Cross Section

71-Lu-175  
-92.84 To 0.272 %



60

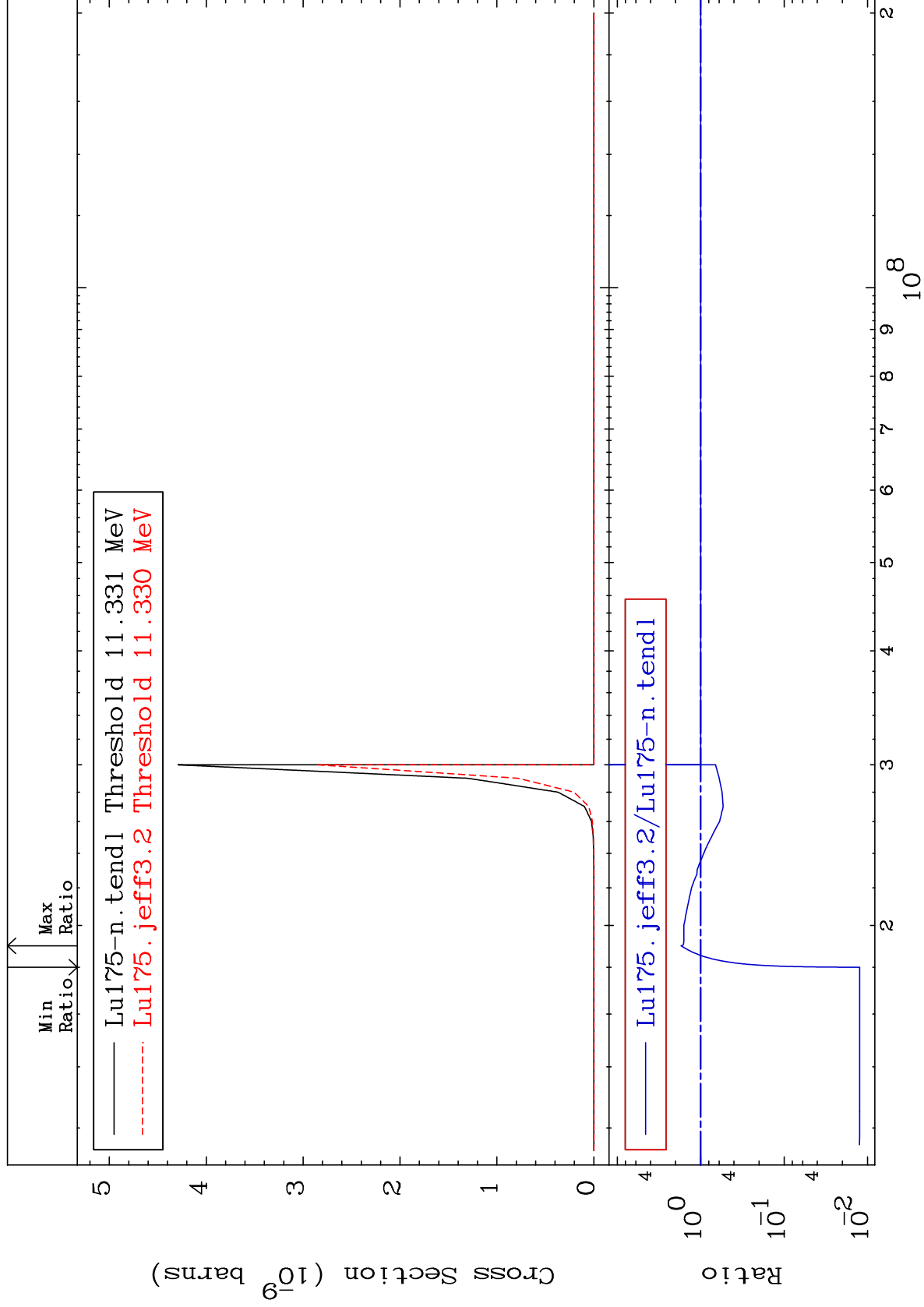
Incident Energy (eV)

71-Lu-175

MAT 7125

(n,p) d  
Cross Section

<sup>71</sup>Lu-<sup>175</sup>Lu  
-98.76 To 71.46 %



61

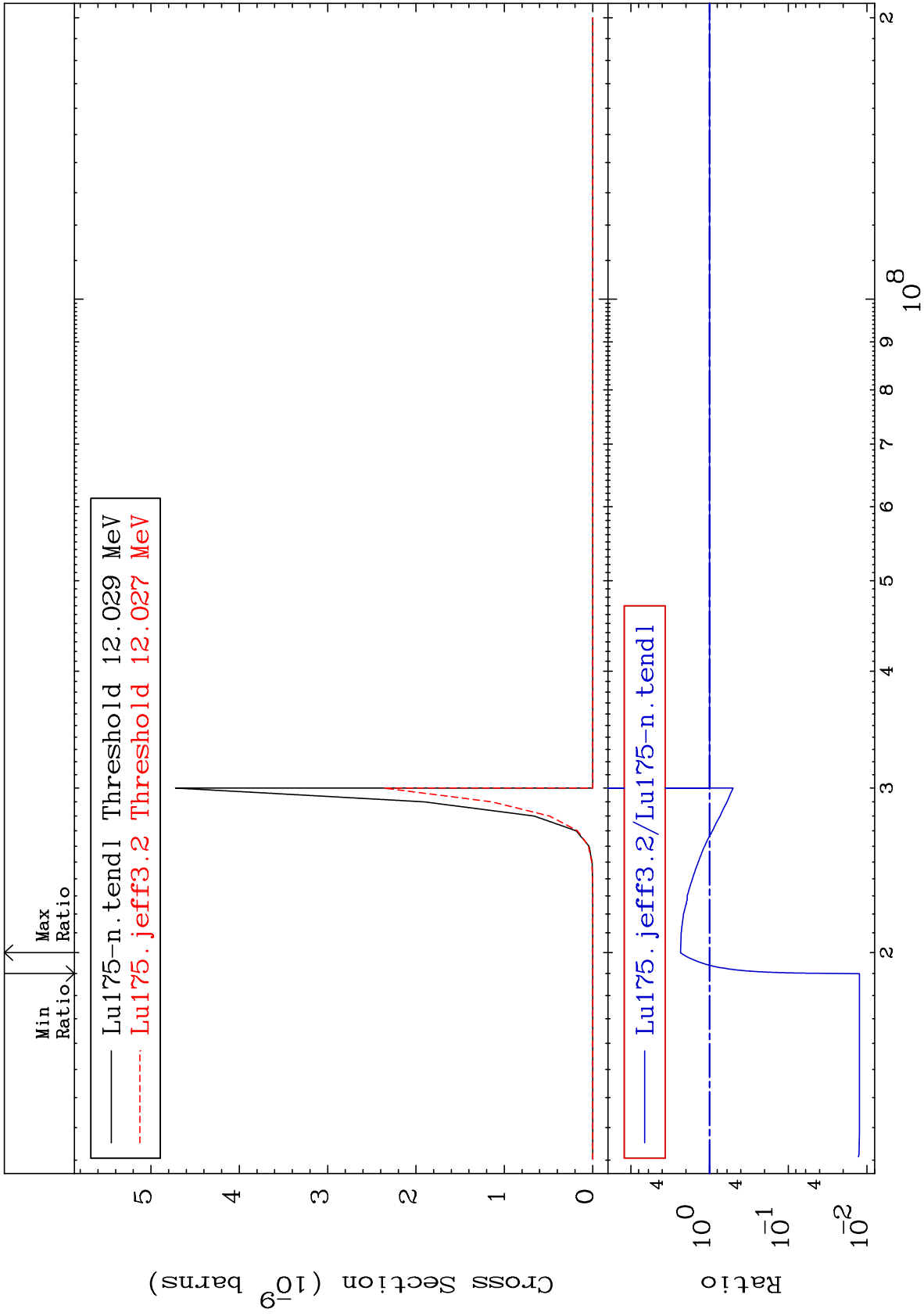
Incident Energy (eV)

<sup>71</sup>Lu-<sup>175</sup>Lu

MAT 7125

(n,p) t  
Cross Section

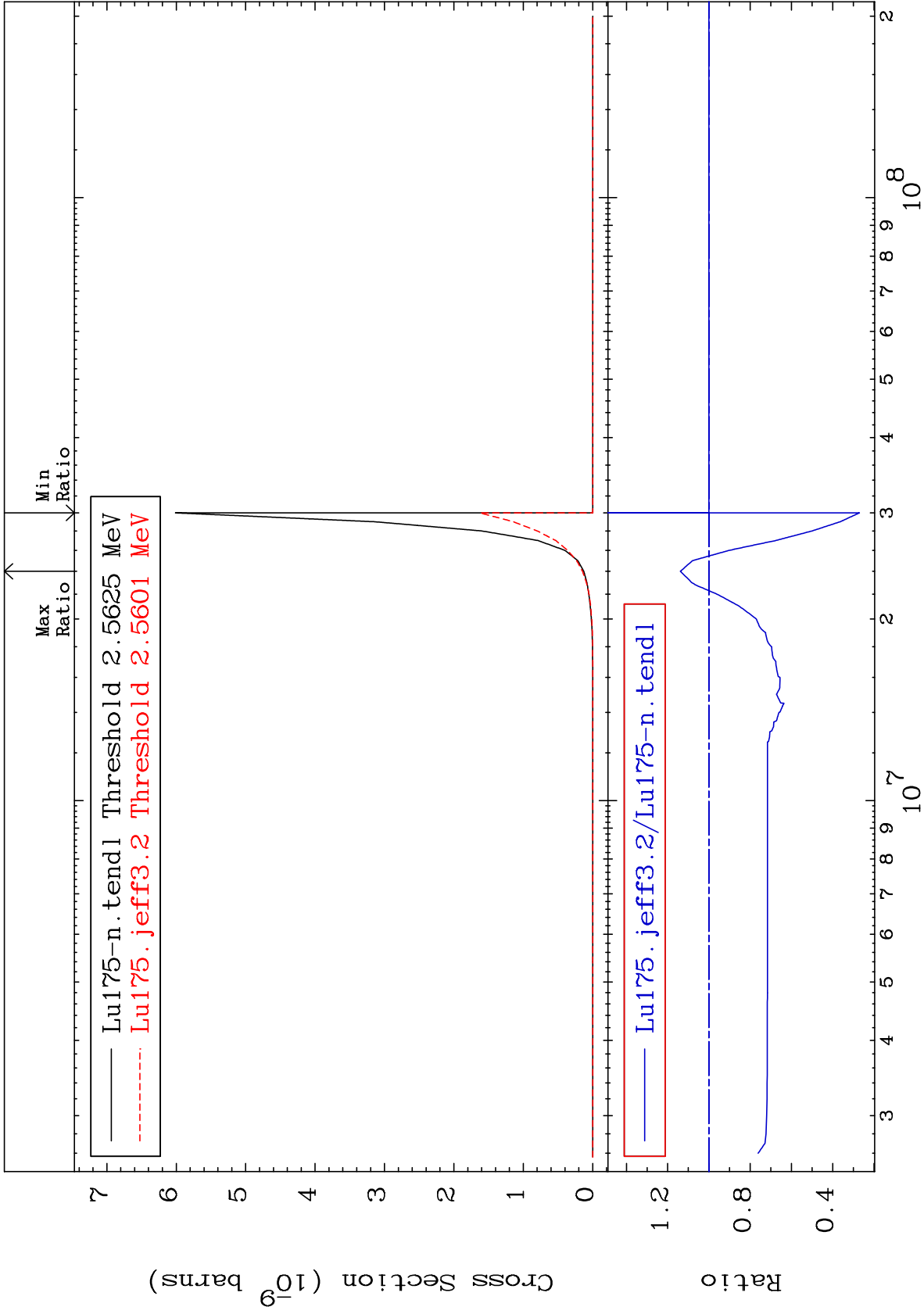
<sup>71</sup>Lu-<sup>175</sup>Lu  
-98.75 To 135.1 %



MAT 7125

(n, d)  $\alpha$   
Cross Section

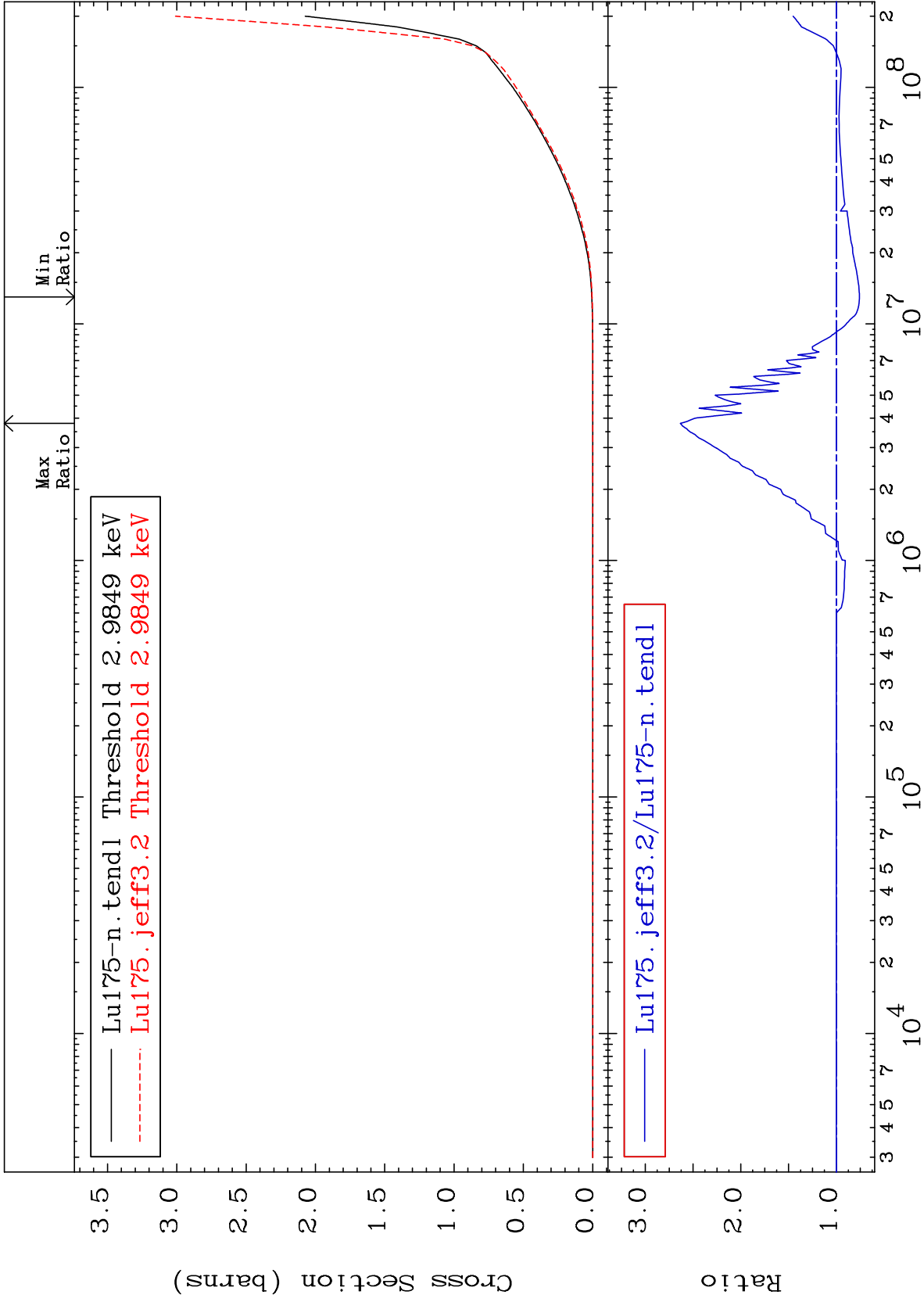
71-Lu-175  
-72.95 To 13.86 %



MAT 7125

Hydrogen Production  
Cross Section

<sup>71</sup>Lu-Lu-175  
-24.15 To 163.3 %

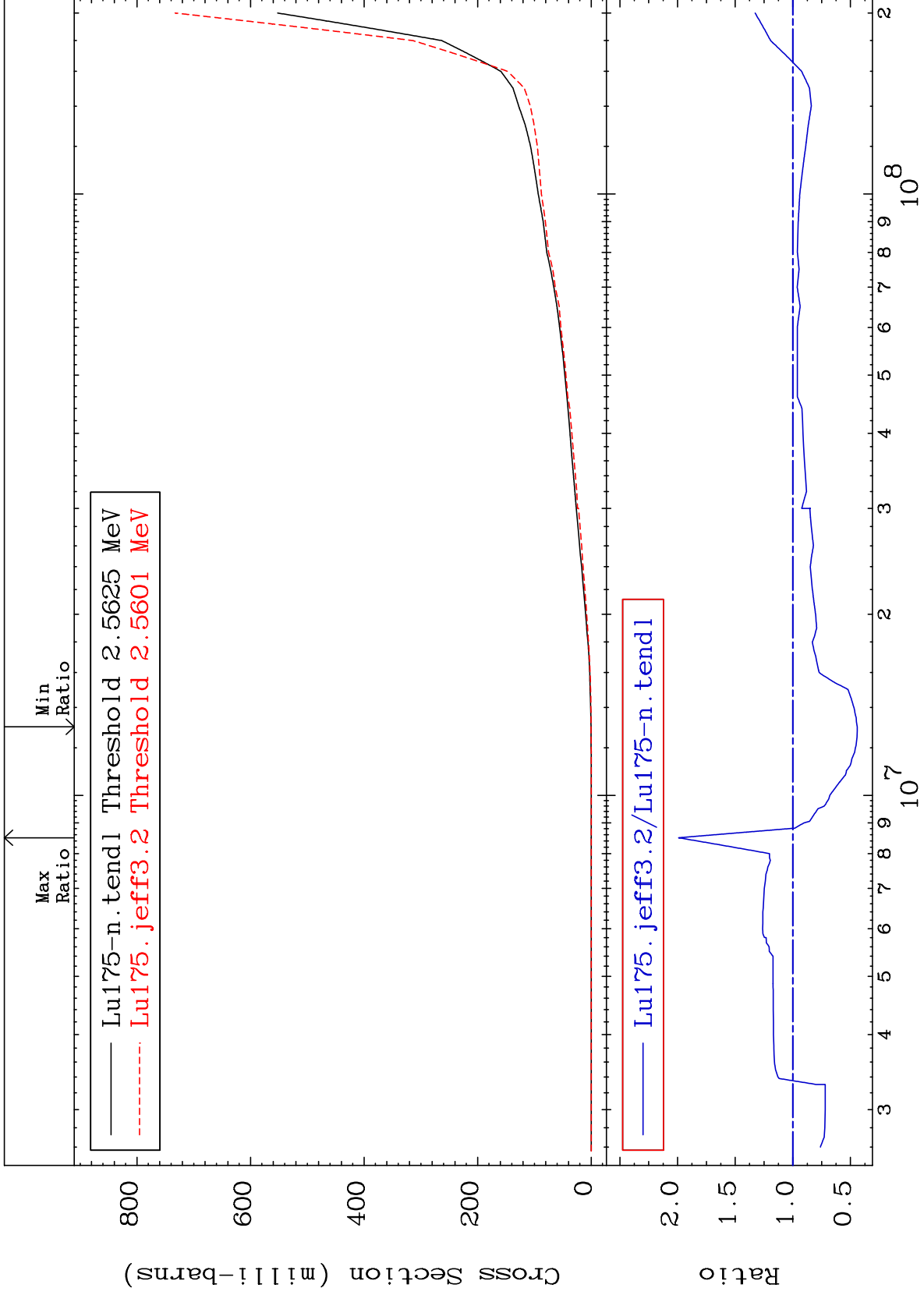




MAT 7125

Deuterium Production  
Cross Section

<sup>71</sup>Lu-<sup>175</sup>  
-55.87 To 99.05 %



65

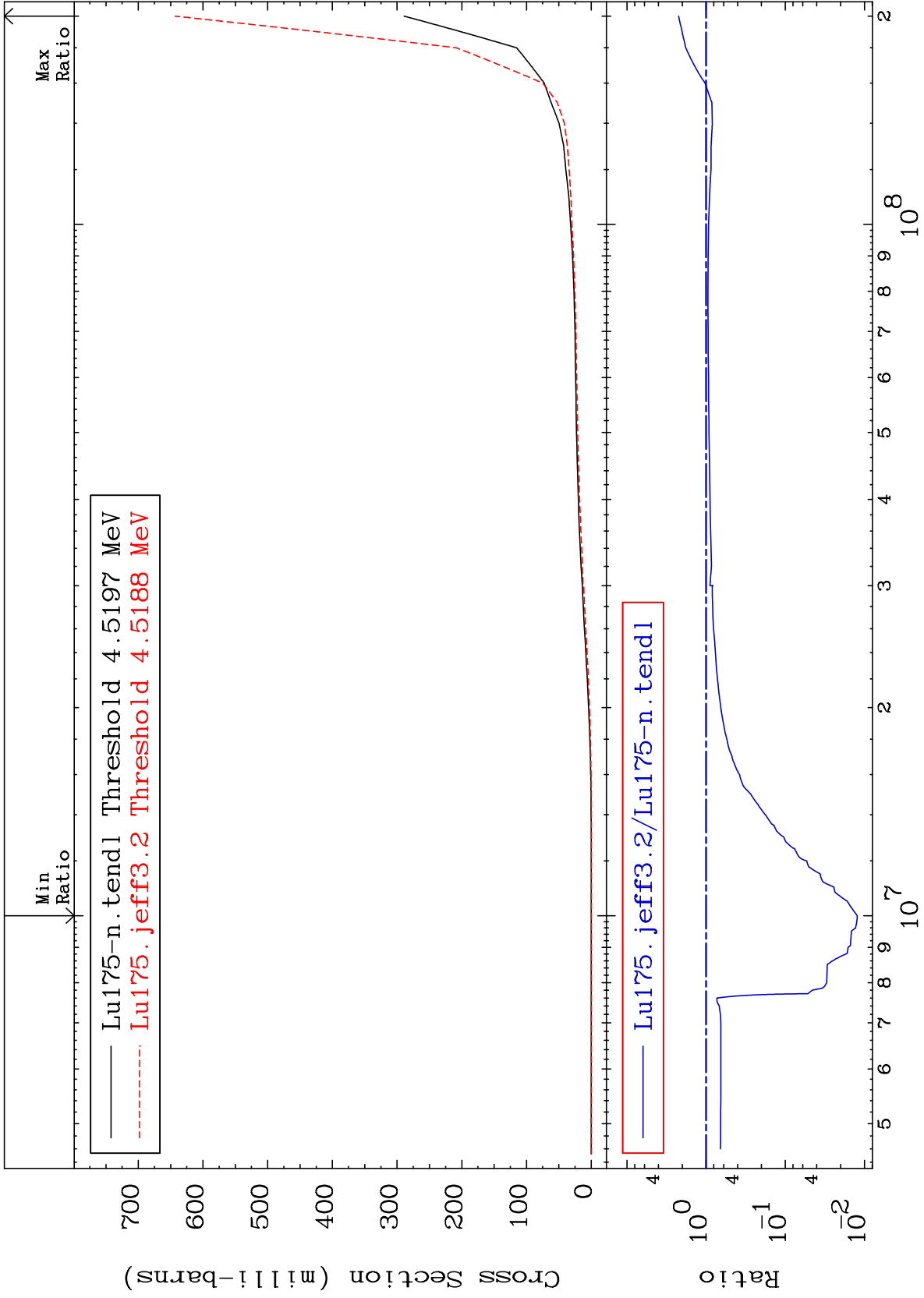
Incident Energy (eV)

<sup>71</sup>Lu-<sup>175</sup>

MAT 7125

Tritium Production  
Cross Section

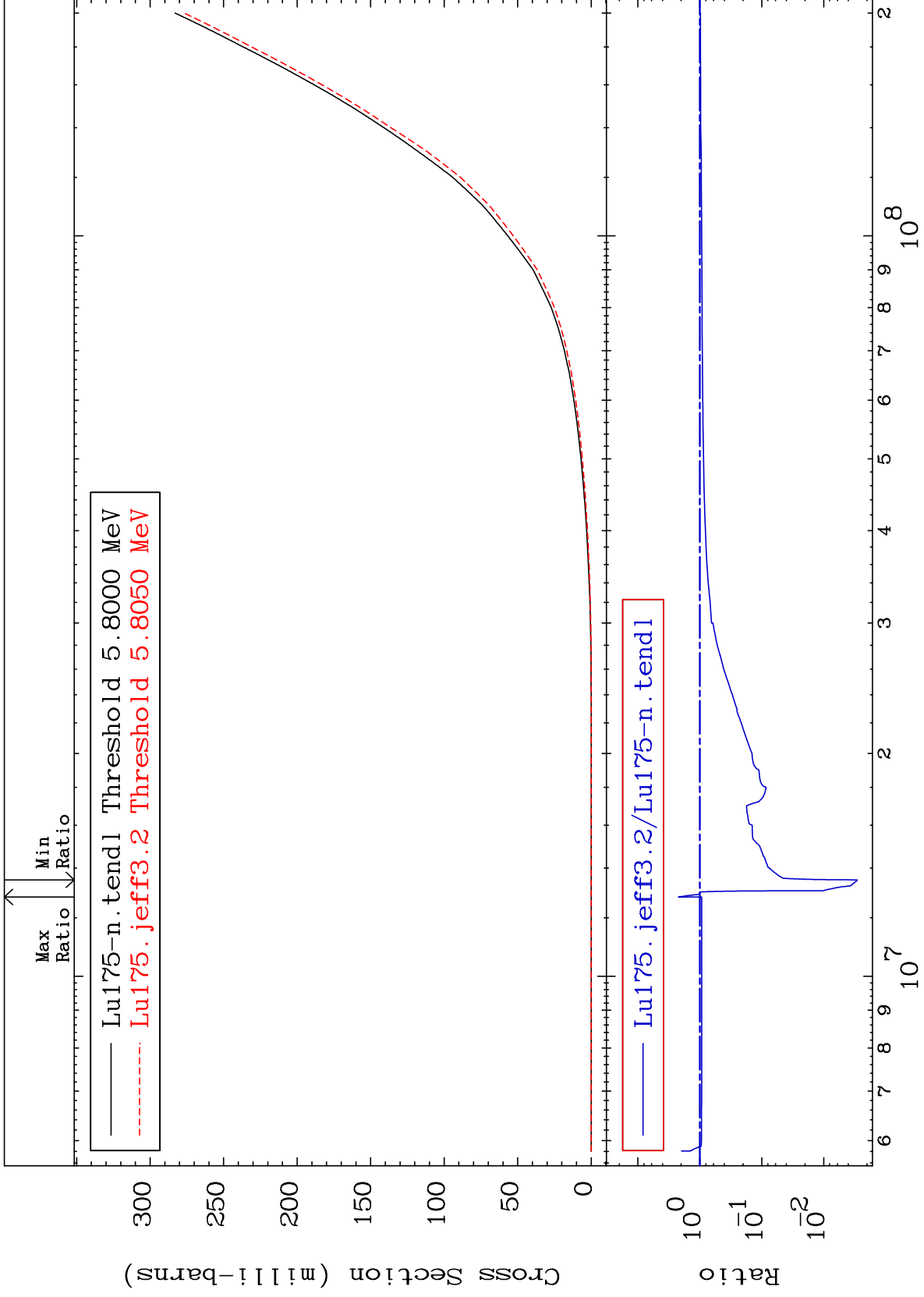
71-Lu-175  
-98.77 To 122.4 %



MAT 7125

He-3 Production  
Cross Section

<sup>71</sup>Lu-<sup>175</sup>  
-99.71 To 119.7 %



67

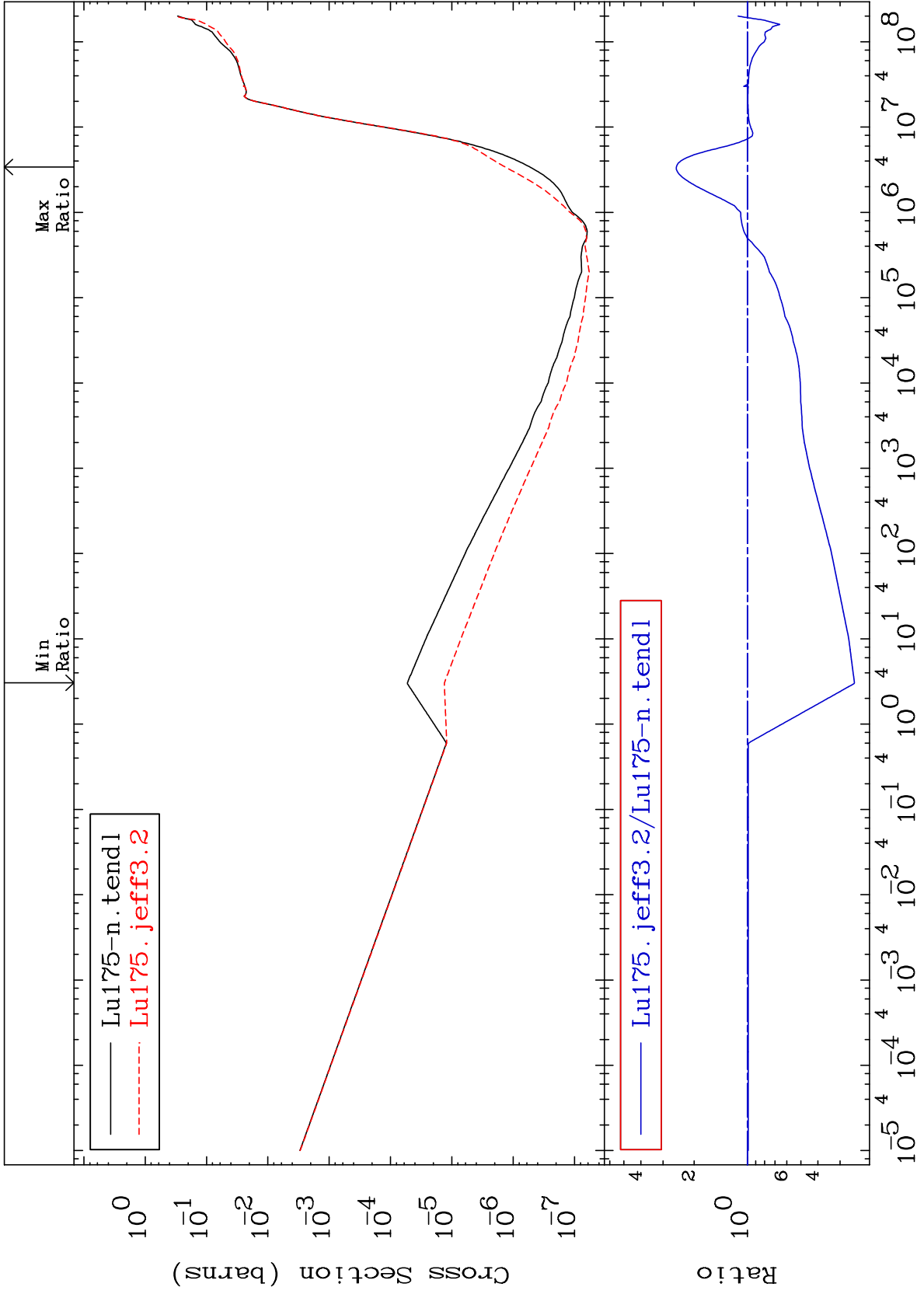
Incident Energy (eV)

<sup>71</sup>Lu-<sup>175</sup>

MAT 7125

He-4 Production  
Cross Section

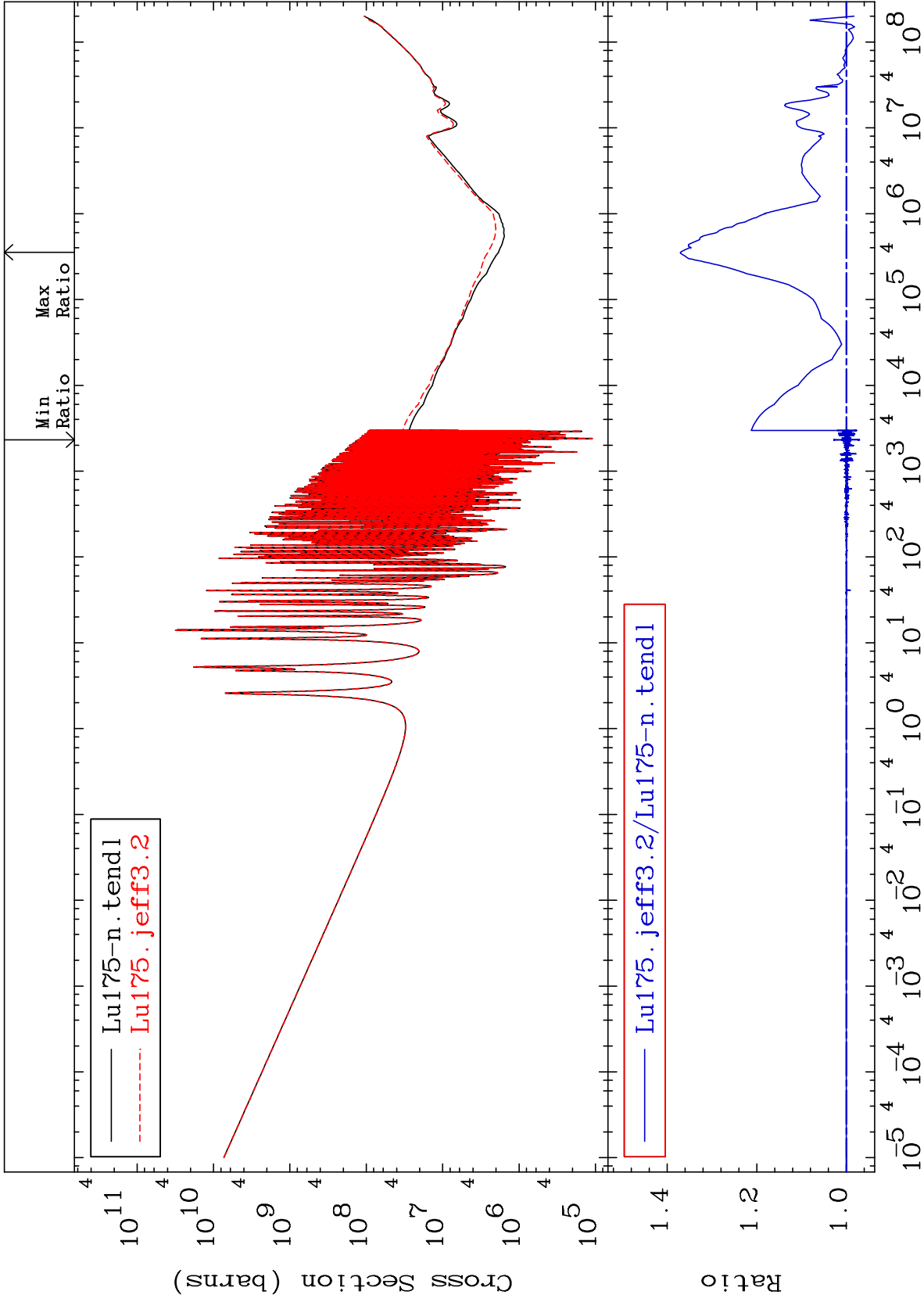
<sup>71</sup>Lu-<sup>175</sup>Lu  
-75.10 To 152.3 %



MAT 7125

Kerma total (eV-barns)  
Cross Section

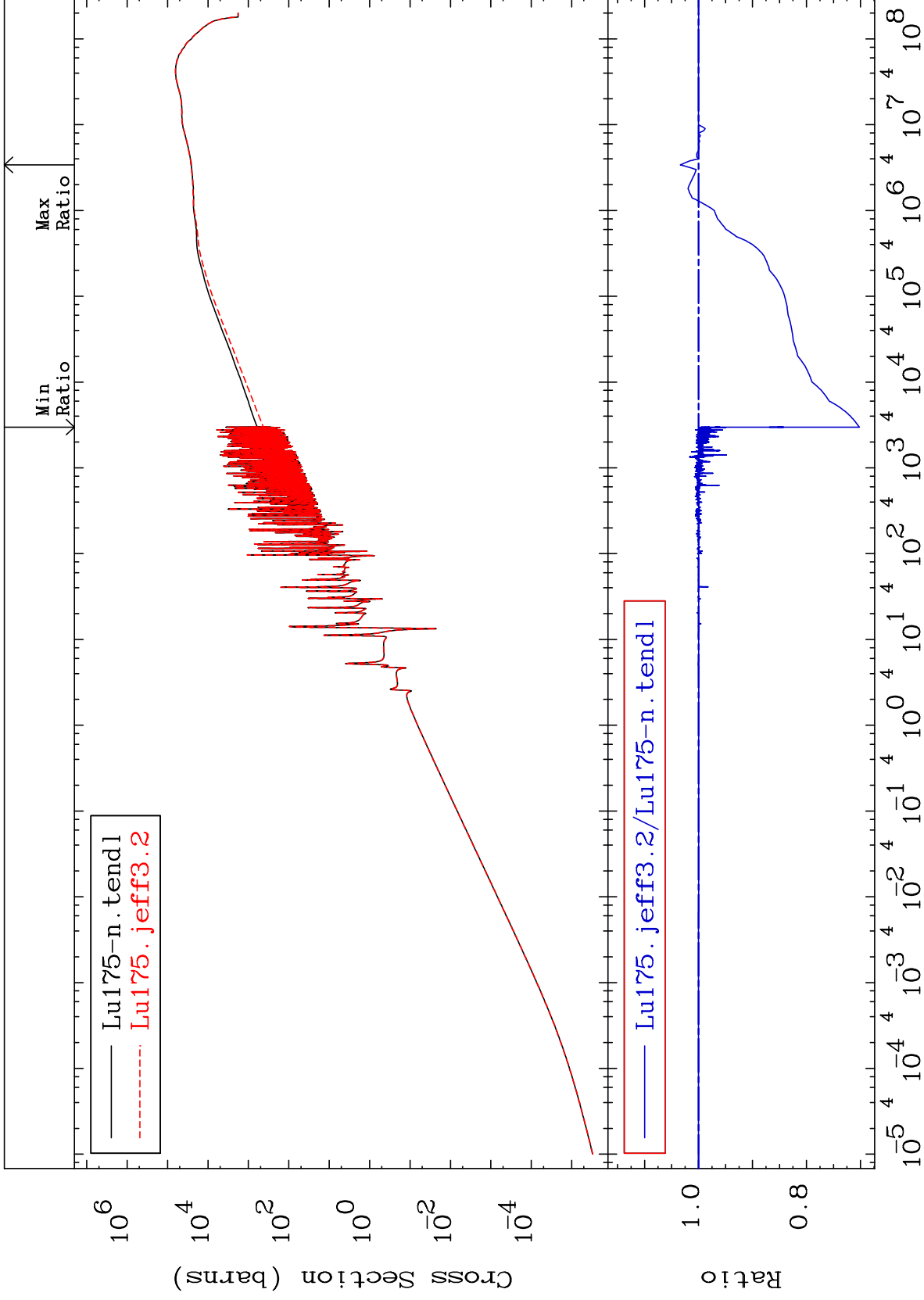
71-Lu-175  
-2.919 To 37.06 %



MAT 7125

Kerma elastic  
Cross Section

71-Lu-175  
-29.80 To 3.368 %



70

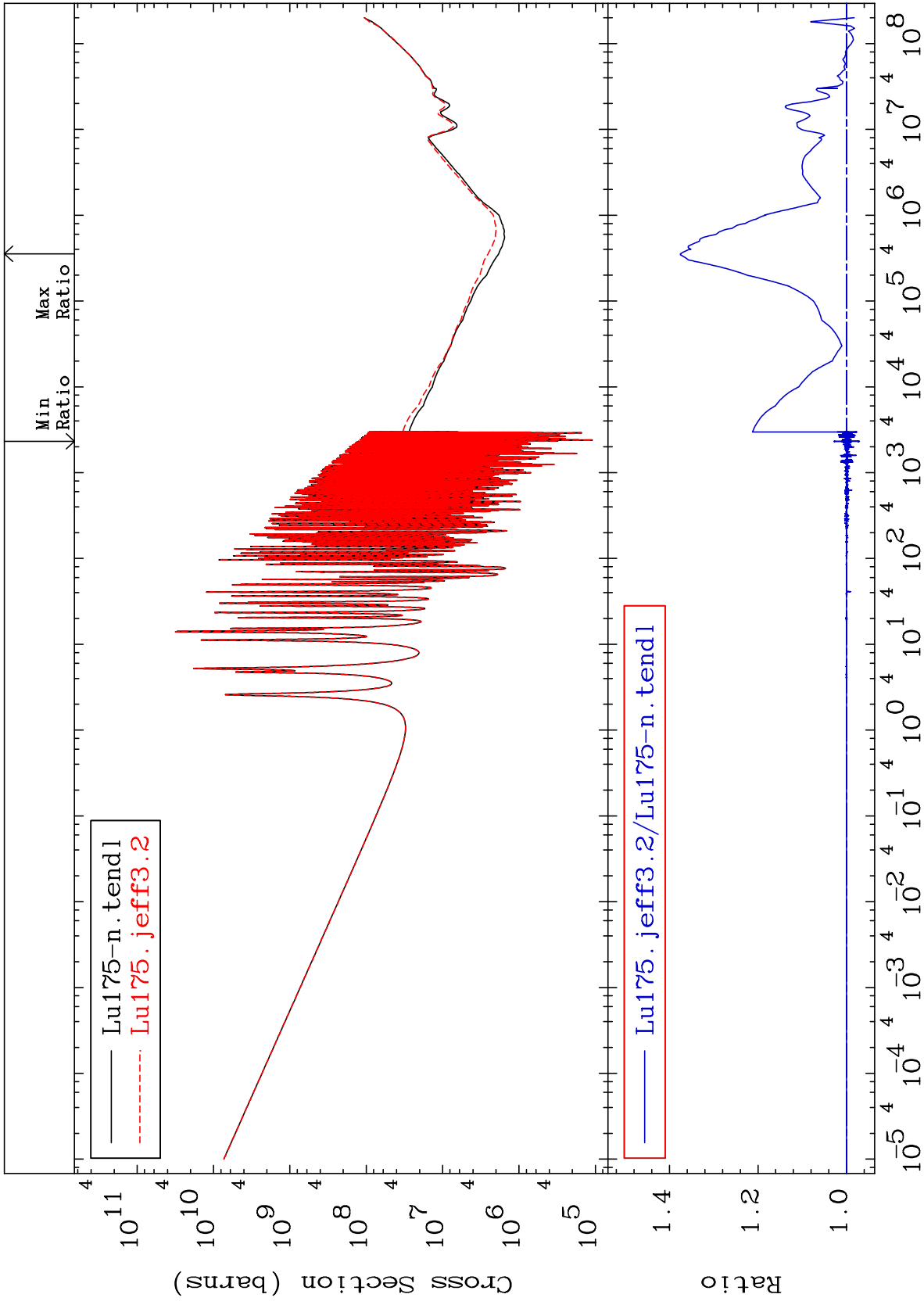
Incident Energy (eV)

71-Lu-175

MAT 7125

Kerma non-elastic (all but mt2)  
Cross Section

71-Lu-175  
-2.919 To 37.54 %



71

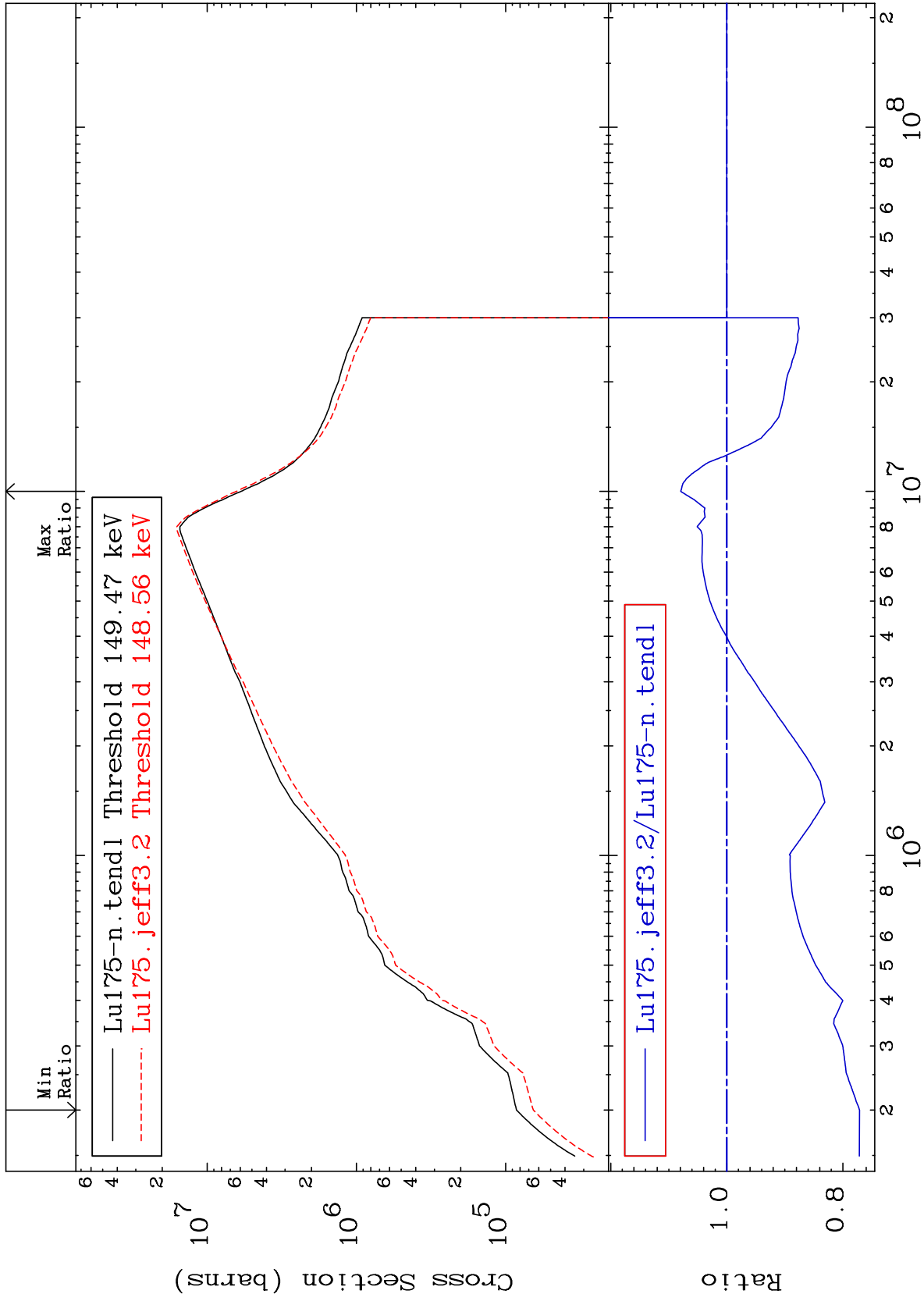
Incident Energy (eV)

71-Lu-175

MAT 7125

Kerma inelastic (mt51-91)  
Cross Section

<sup>71</sup>-Lu-175  
-22.87 To 7.932 %



72

Incident Energy (eV)

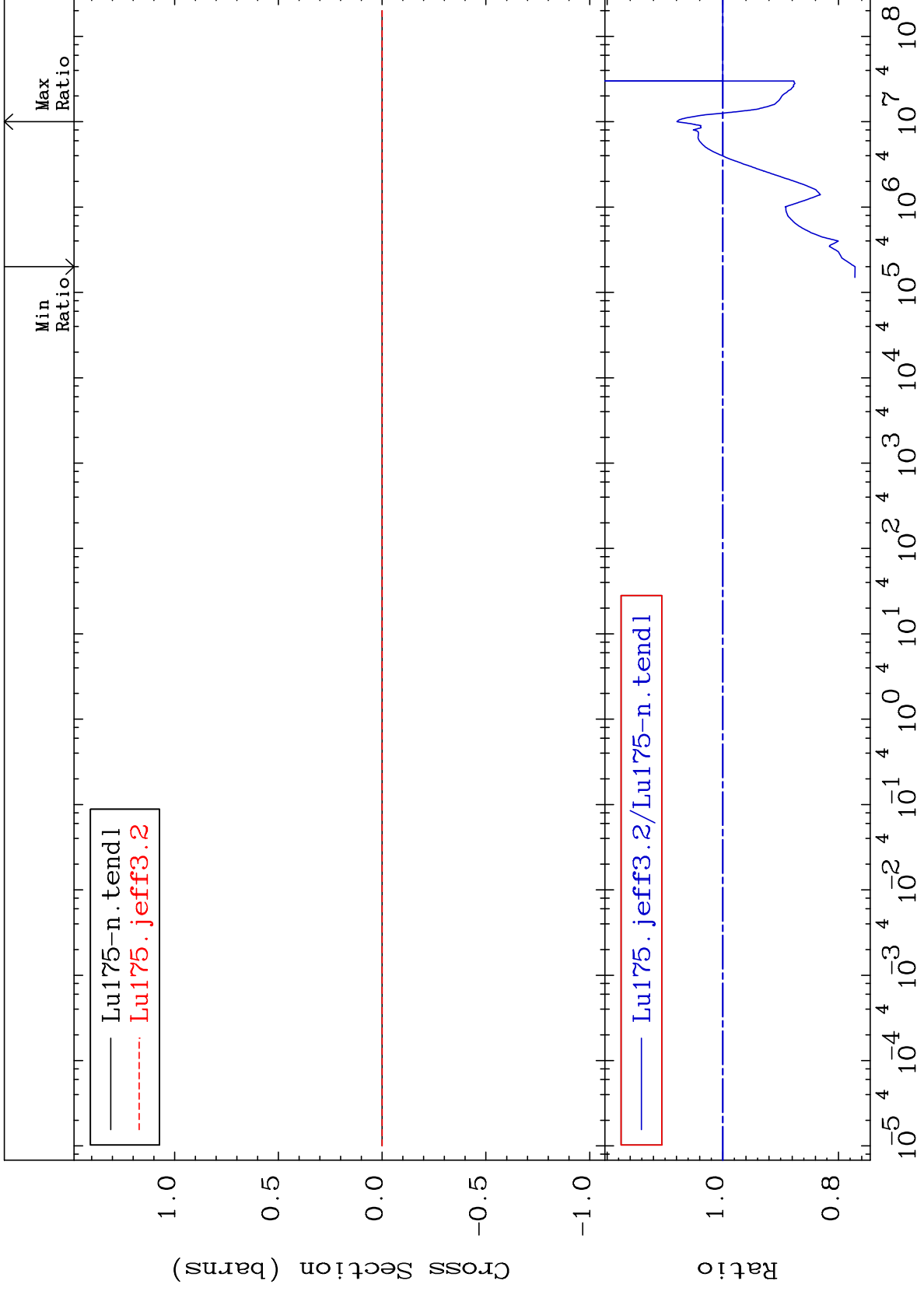
<sup>71</sup>-Lu-175



MAT 7125

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

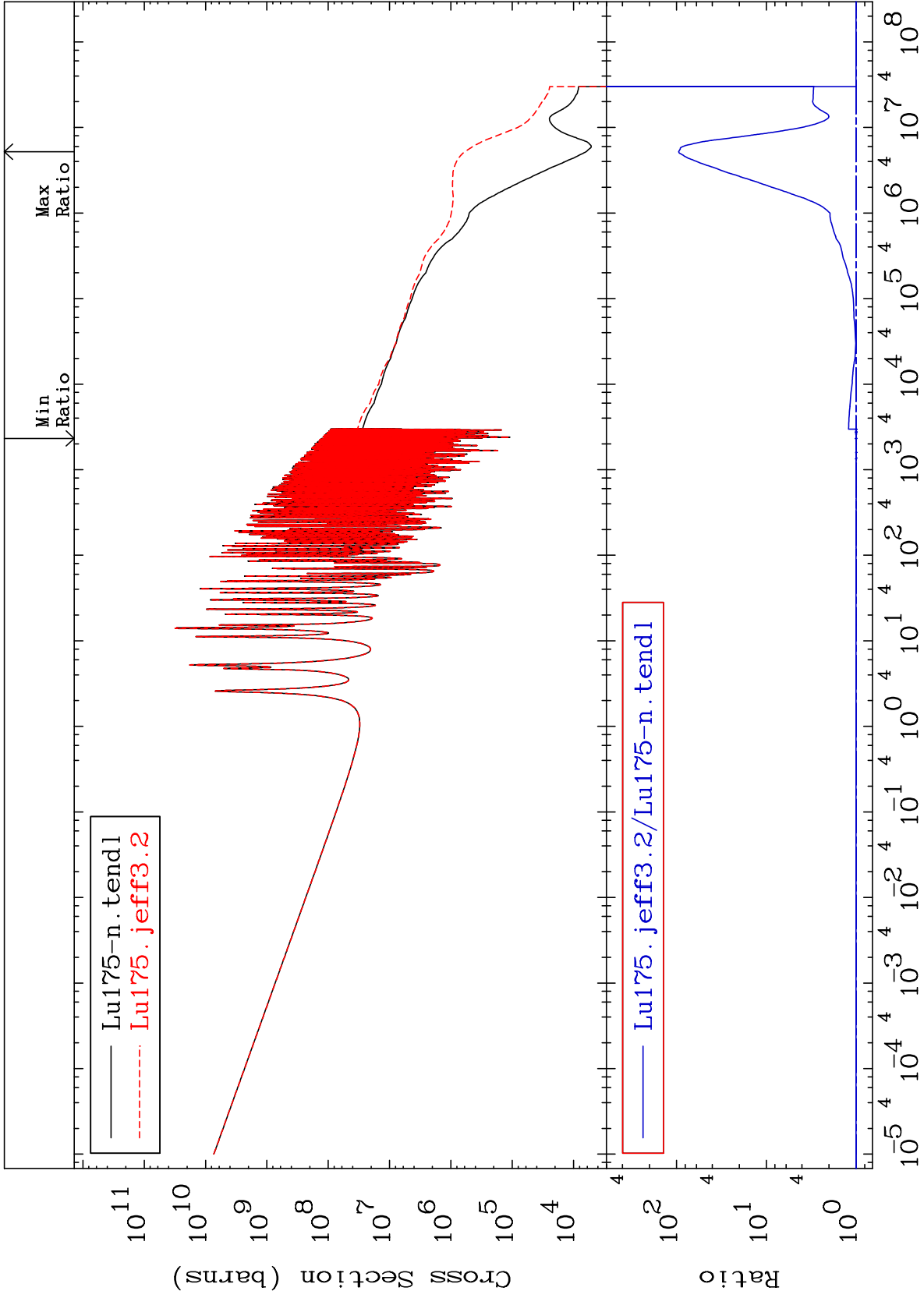
71-Lu-175  
-22.87 To 7.932 %



MAT 7125

Kerma capture (mt102)  
Cross Section

71-Lu-175  
-2.919 To 9357. %

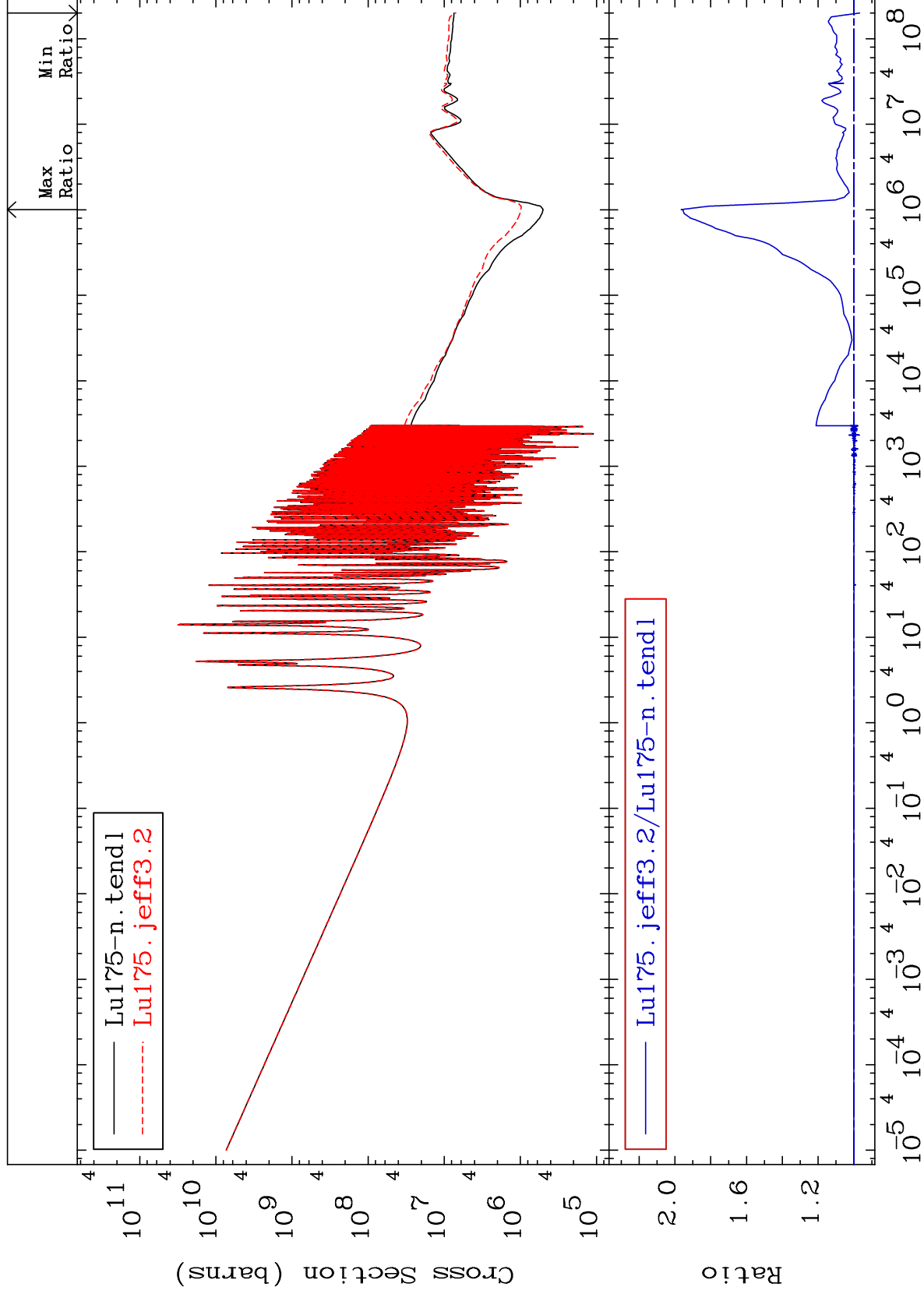


MAT 7125

Total photon (eV-barns)  
Cross Section

71-Lu-175

-3.201 To 96.51 %



Incident Energy (eV)

71-Lu-175

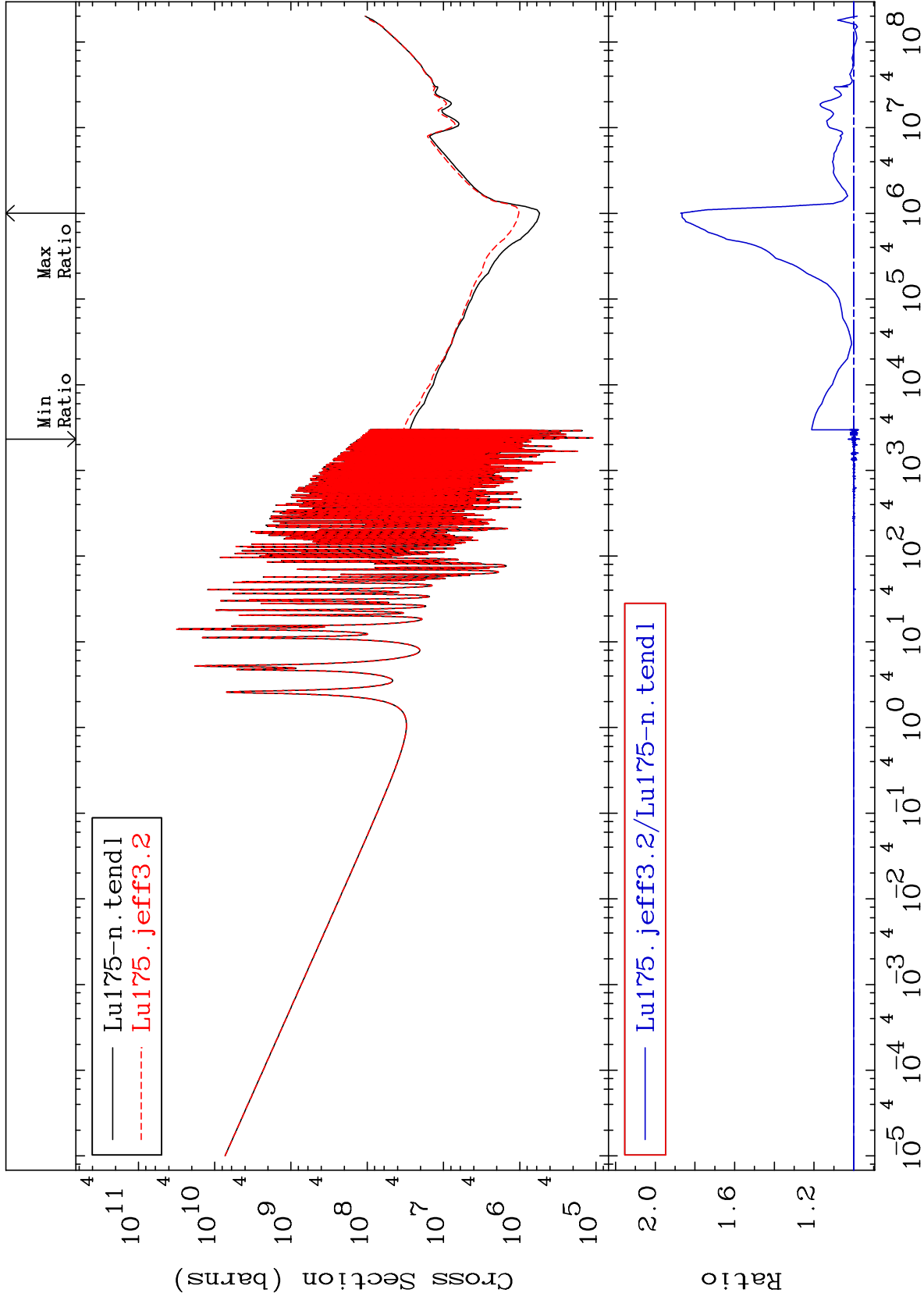
MAT 7125

Total kinematic kerma (high limit)

71-Lu-175

Cross Section

-2.919 To 87.13 %



76

Incident Energy (eV)

71-Lu-175

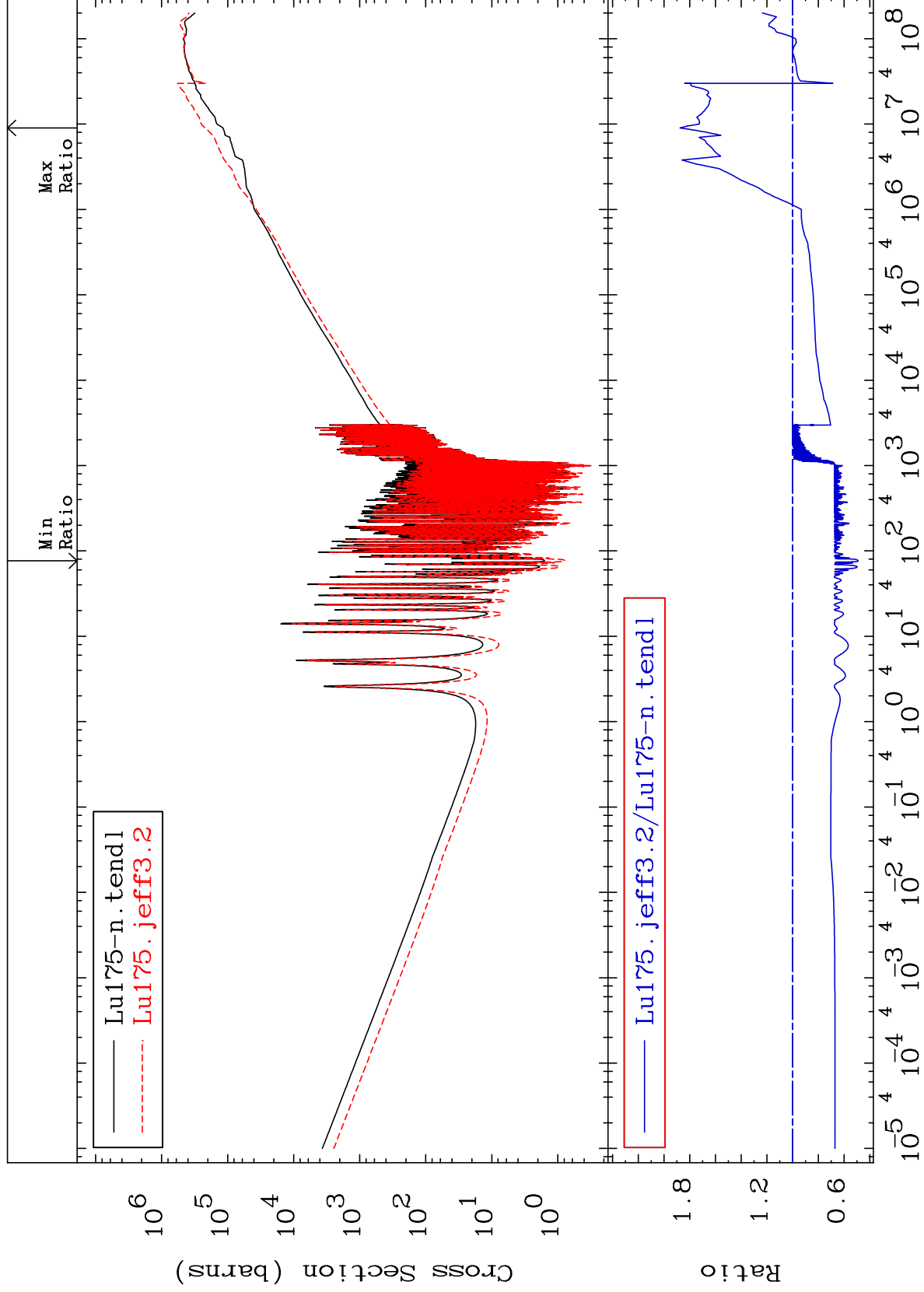
MAT 7125

Dpa total (eV-barns)

71-Lu-175

Cross Section

-50.97 To 87.60 %



77

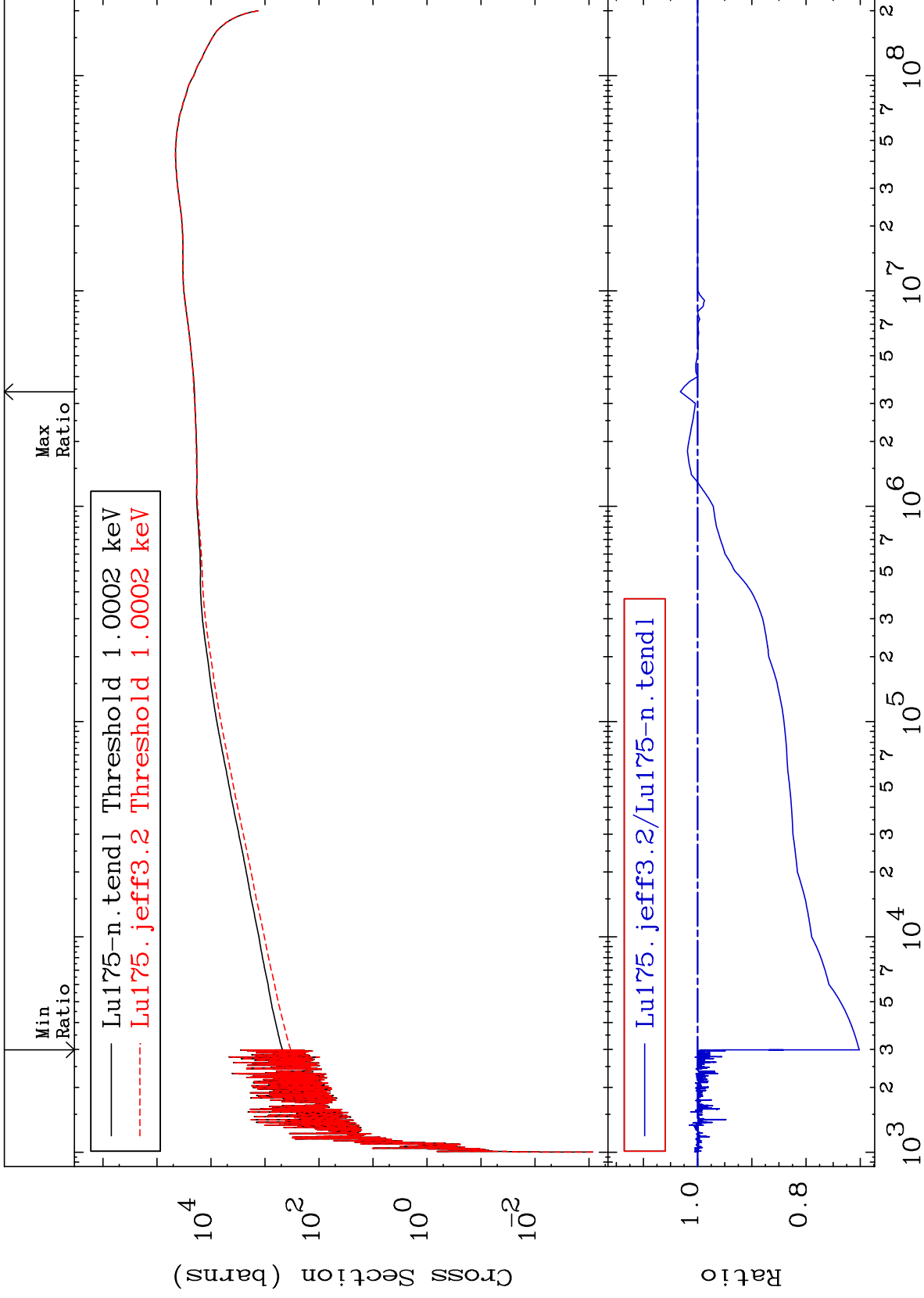
Incident Energy (eV)

71-Lu-175

MAT 7125

Dpa elastic (mt2)  
Cross Section

71-Lu-175  
-29.83 To 3.187 %



78

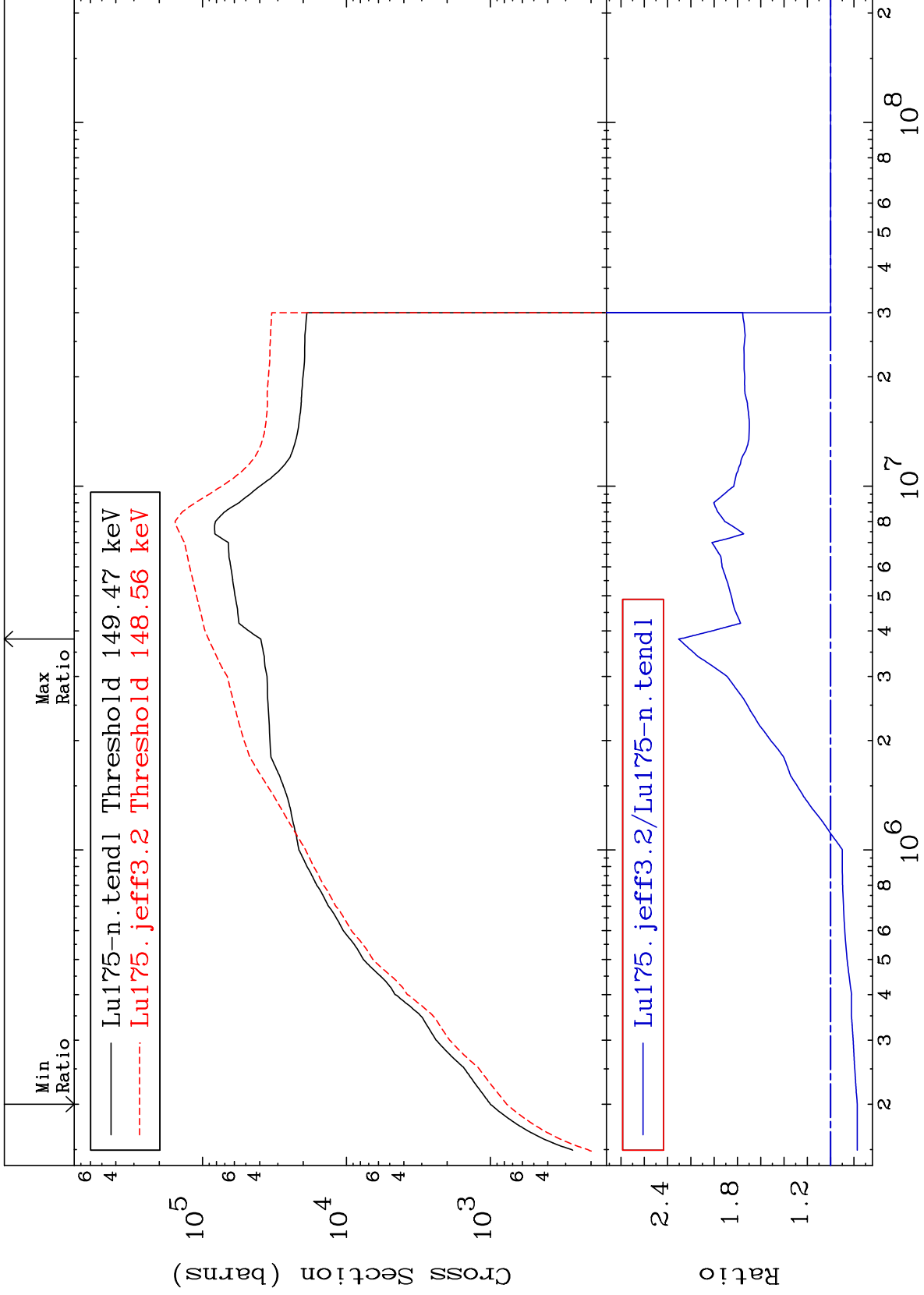
Incident Energy (eV)

71-Lu-175

MAT 7125

Dpa inelastic (mt51-91)  
Cross Section

71-Lu-175  
-22.91 To 130.5 %



79

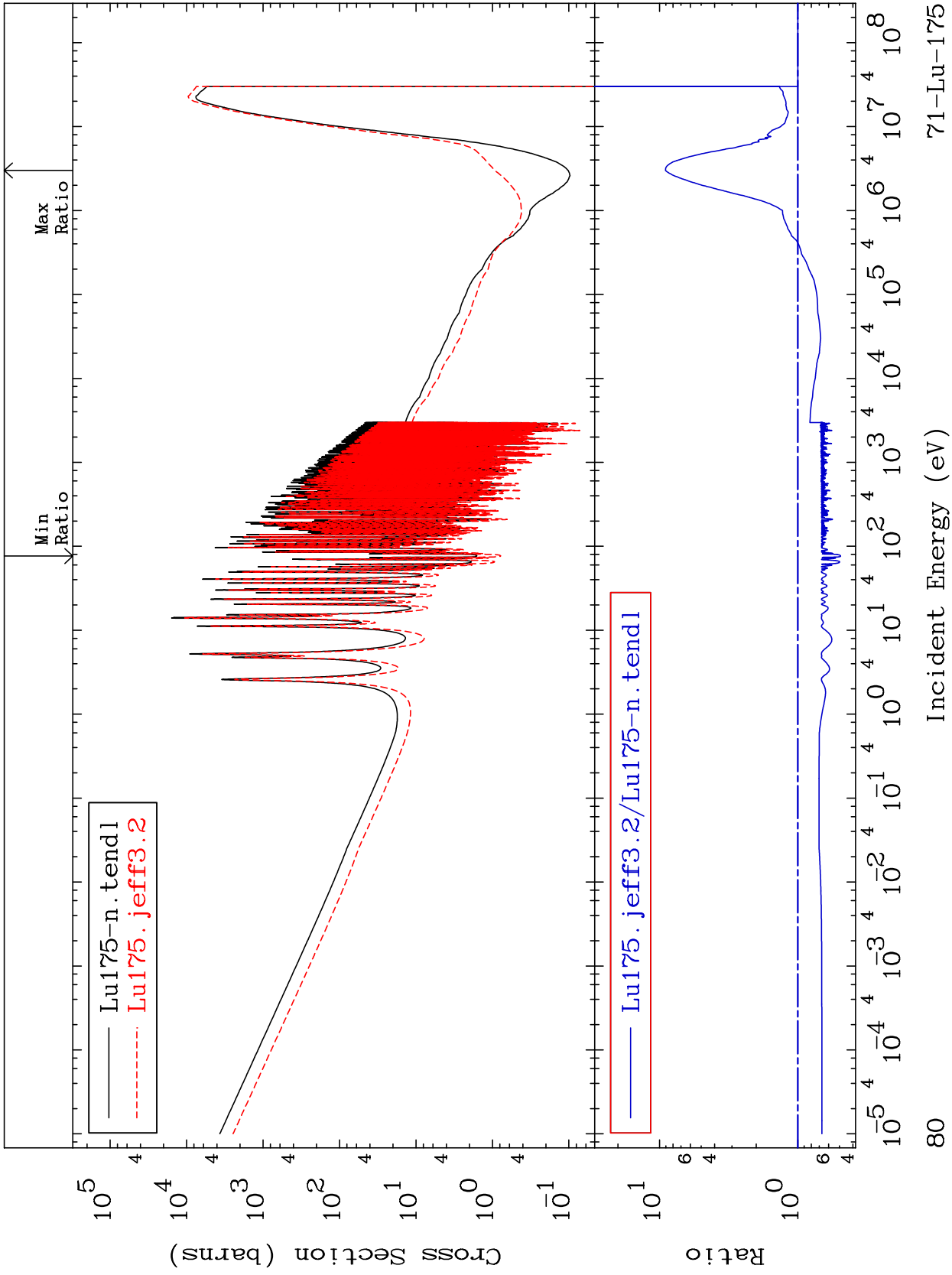
Incident Energy (eV)

71-Lu-175

MAT 7125

Dpa disappearance (mt102 -120)  
Cross Section

71-Lu-175  
-50.97 To 806.2 %



80

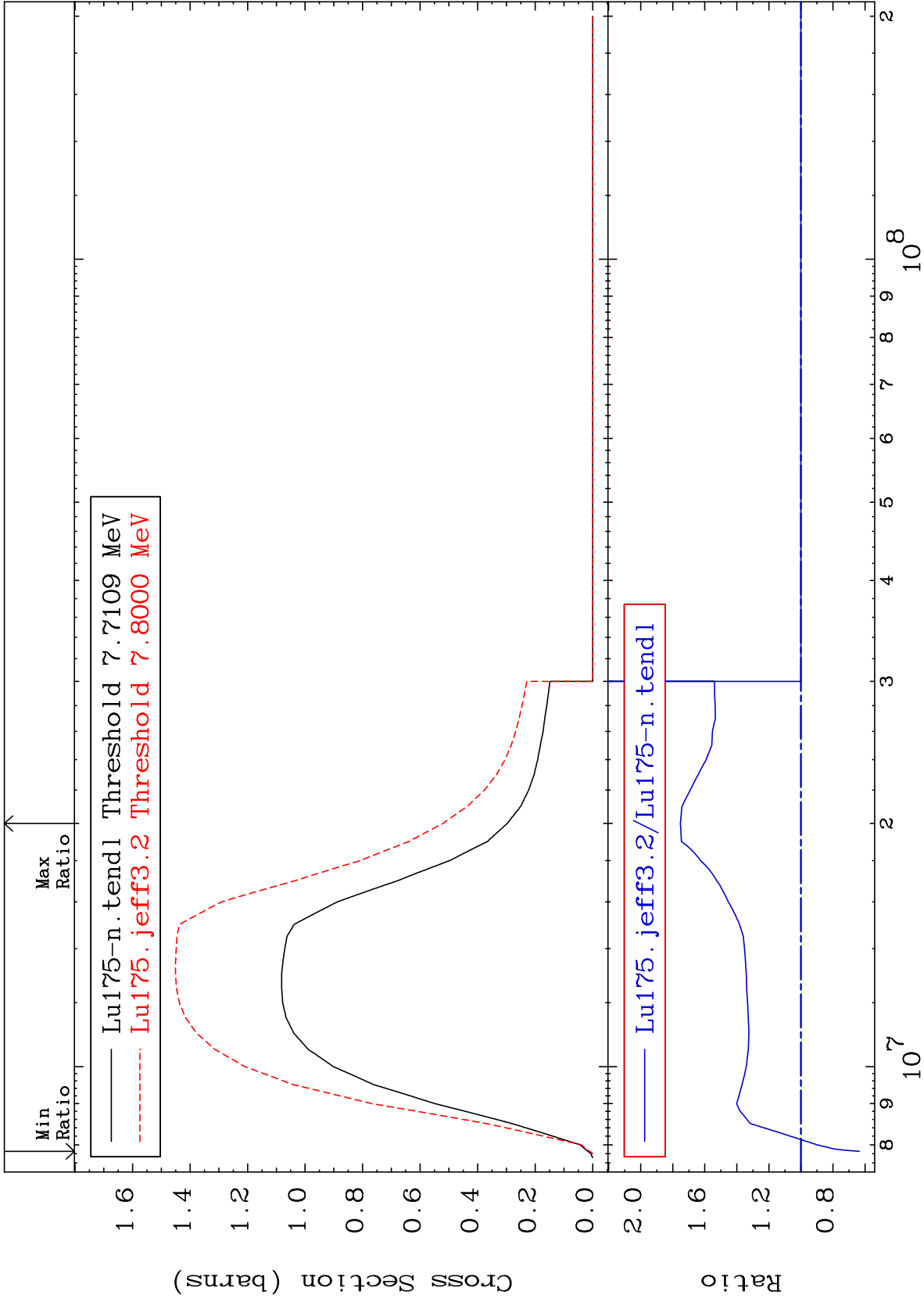
Incident Energy (eV)

71-Lu-175



MAT 7125

(n,2n):71-Lu-174g 71-Lu-175  
Radionuclide Production Cross Section -36.51 To 75.26 %

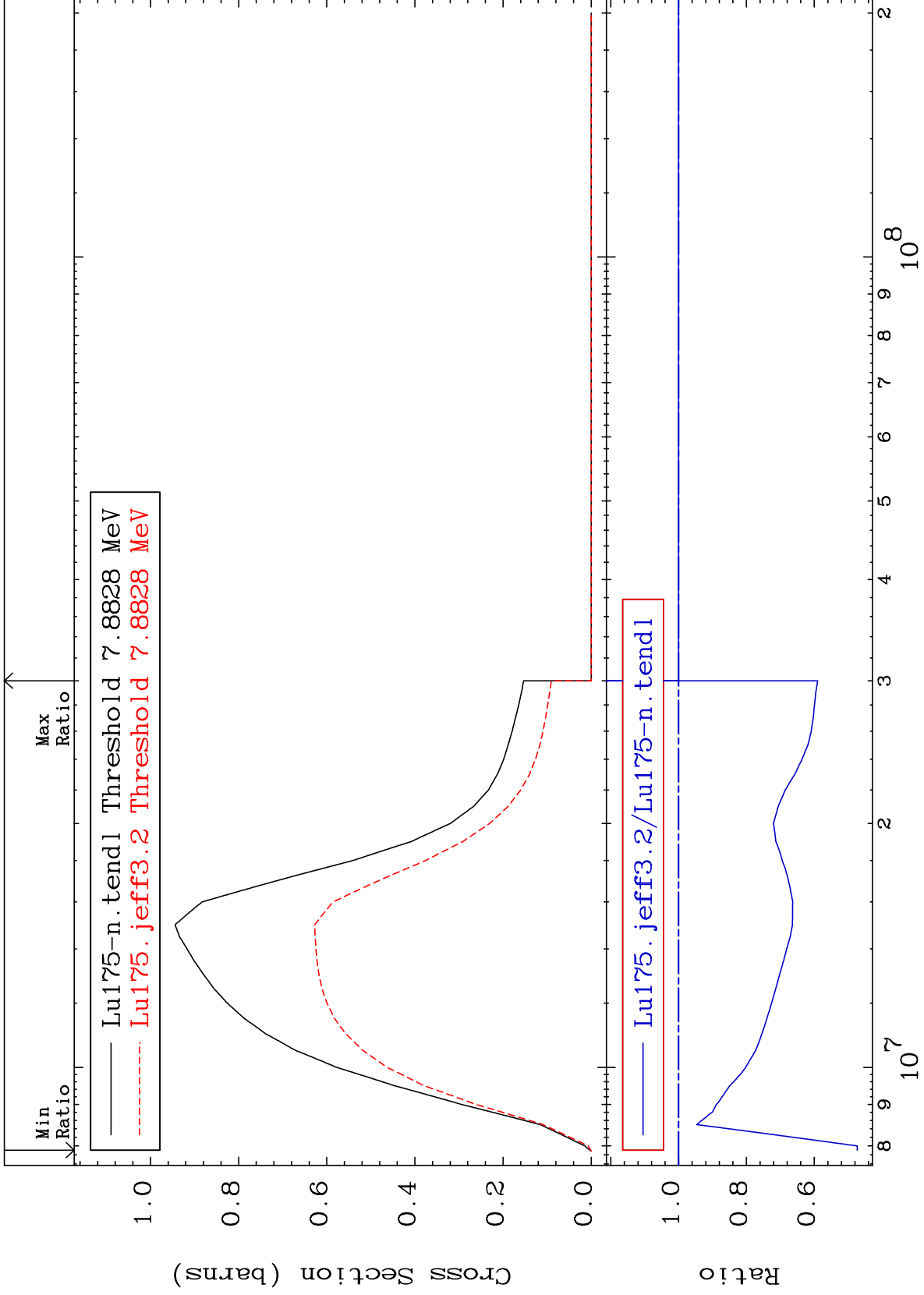


MAT 7125

(n,2n):71-Lu-174m3

71-Lu-175

Radionuclide Production Cross Section -52.67 To 0.000 %

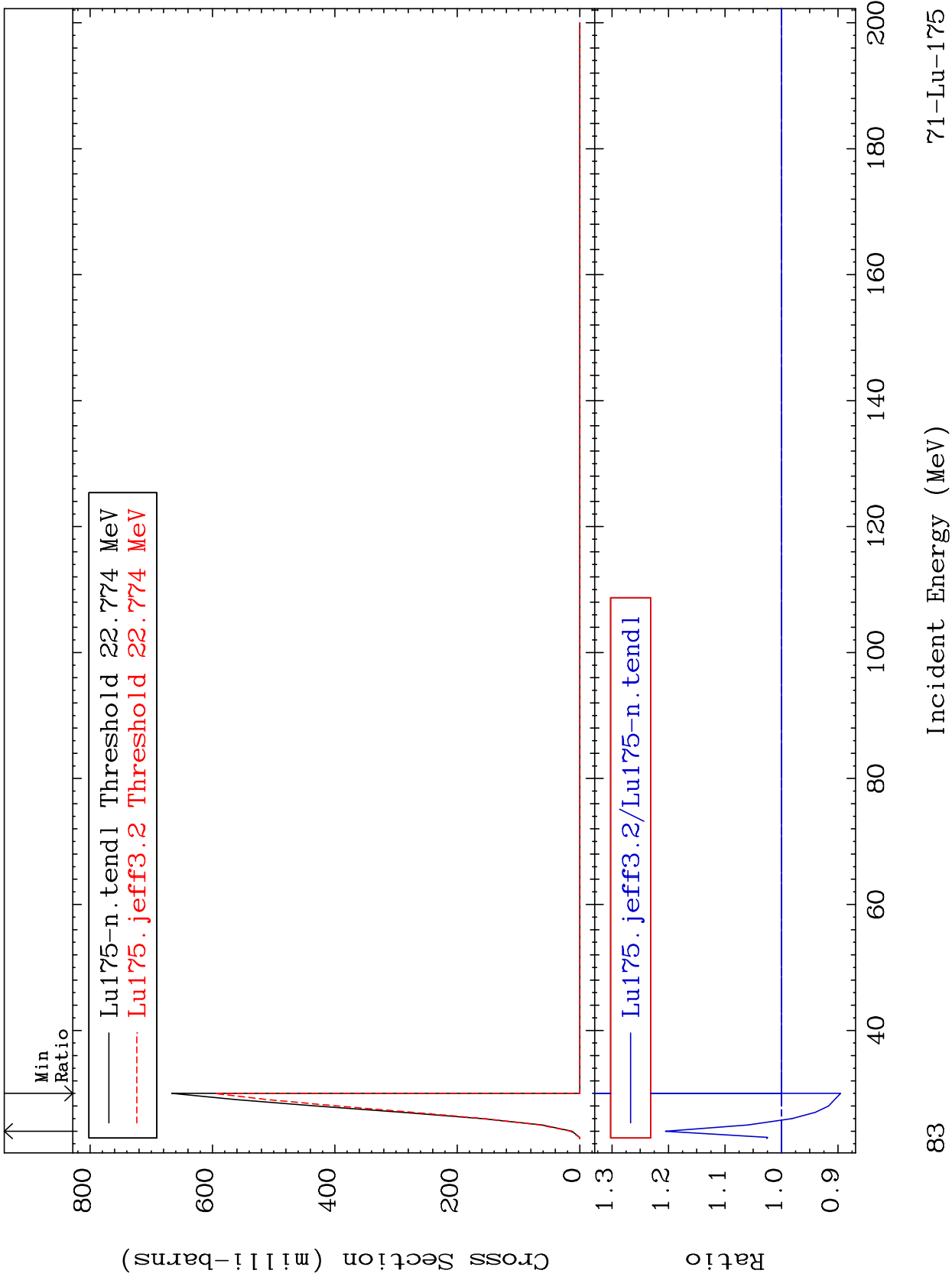


82

Incident Energy (eV)

71-Lu-175

Radionuclide Production Cross Section -10.47 To 20.52 %



MAT 7125

(n, 4n) : 71-Lu-172m1

71-Lu-175

Radionuclide Production Cross Section -10.43 To 75.73 %

