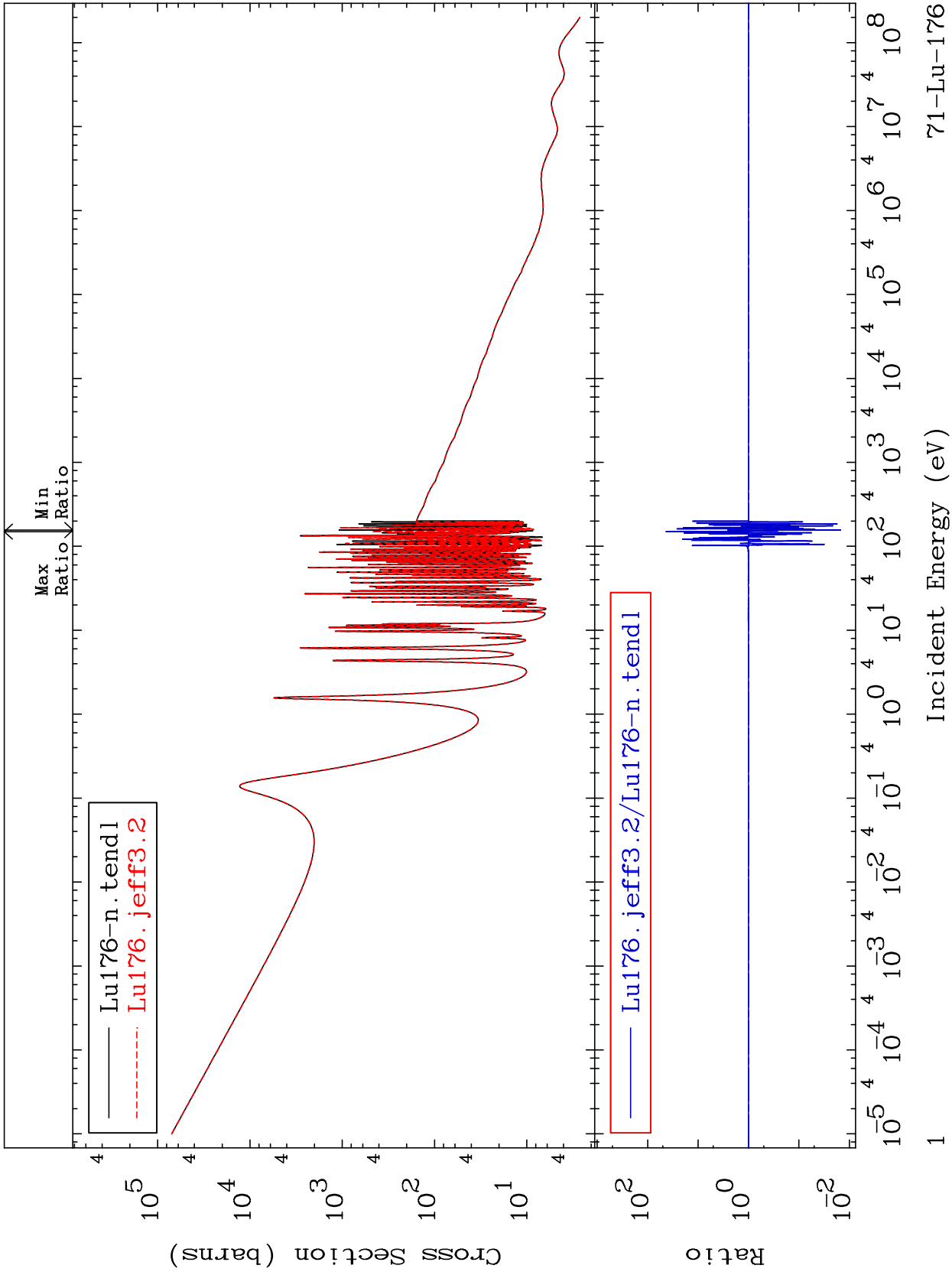


MAT 7128

Total Cross Section
71-Lu-176
-98.51 To 4326. %



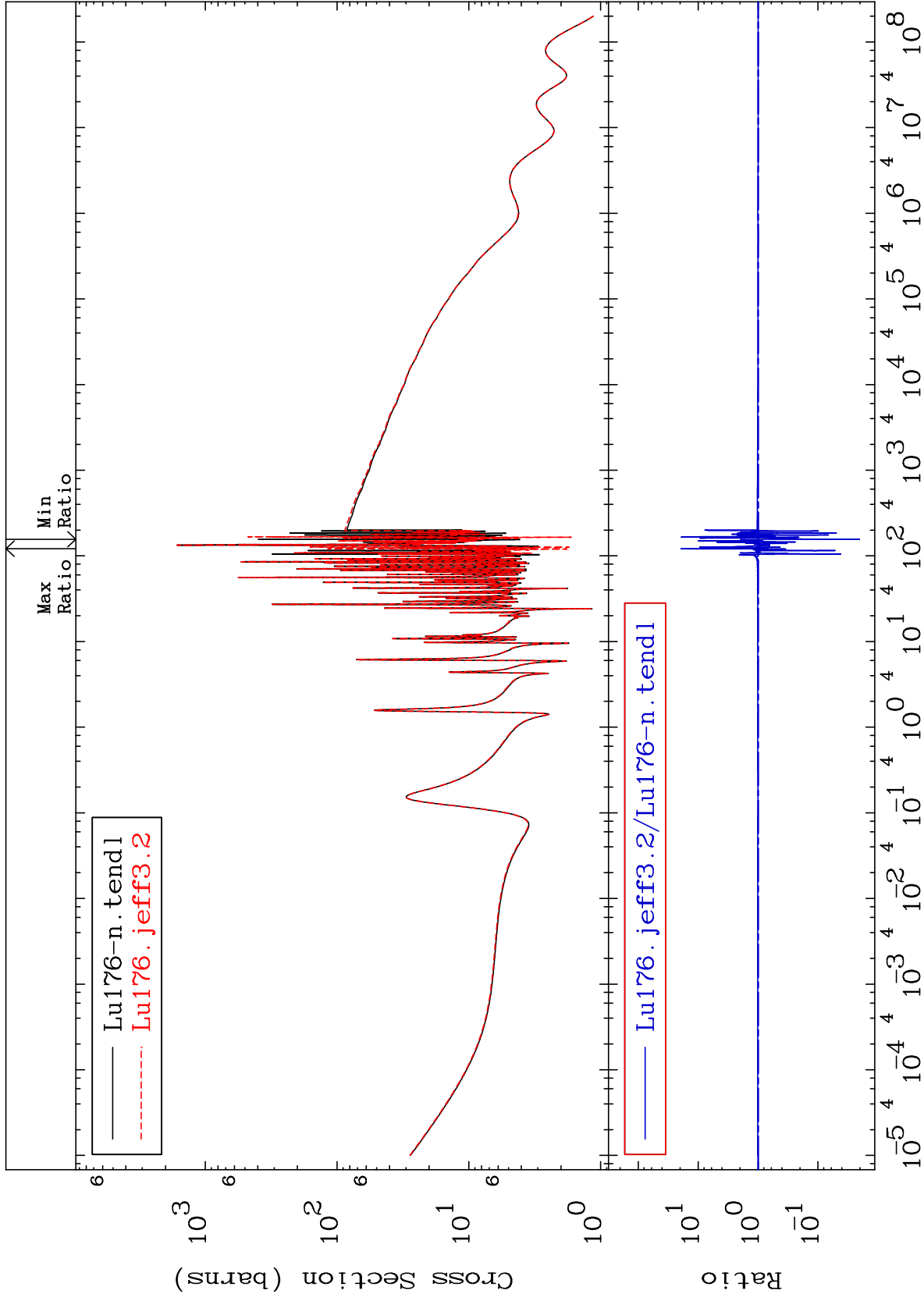
71-Lu-176

Incident Energy (eV)

MAT 7128

Elastic
Cross Section

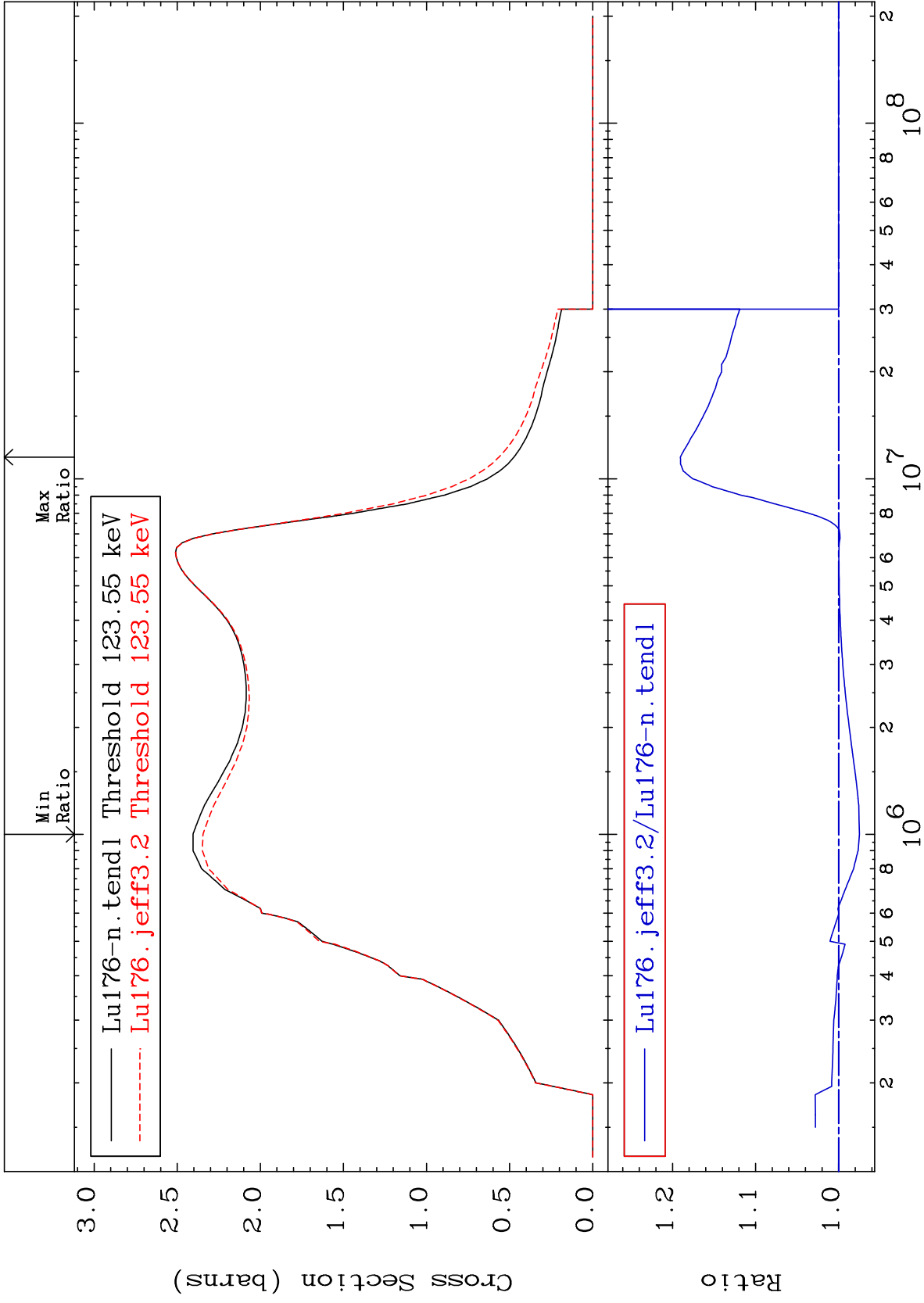
71-Lu-176
-97.98 To 1850. %



MAT 7128

Inelastic
Cross Section

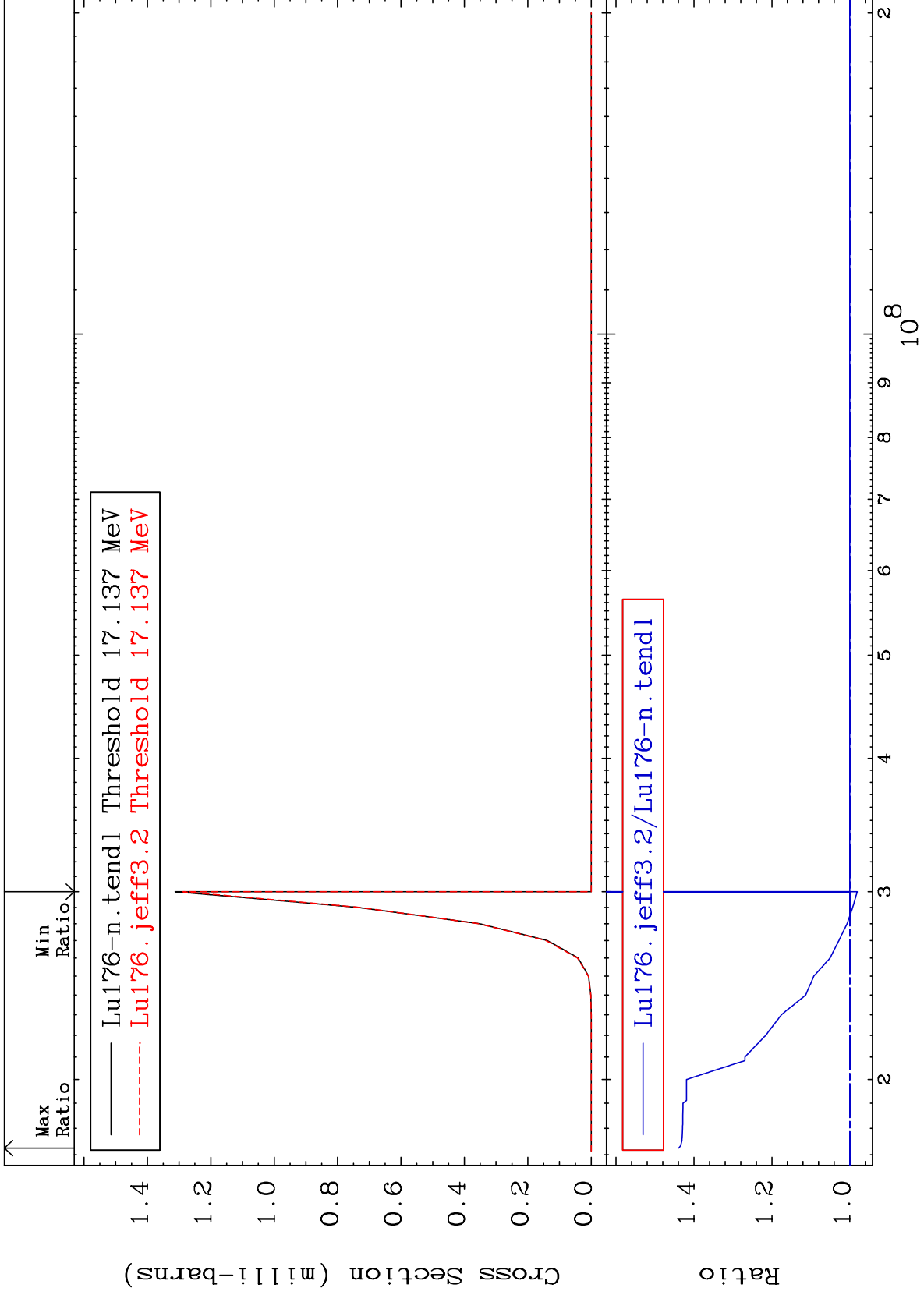
71-Lu-176
-2.505 To 19.06 %



MAT 7128

(n,2n) d
Cross Section

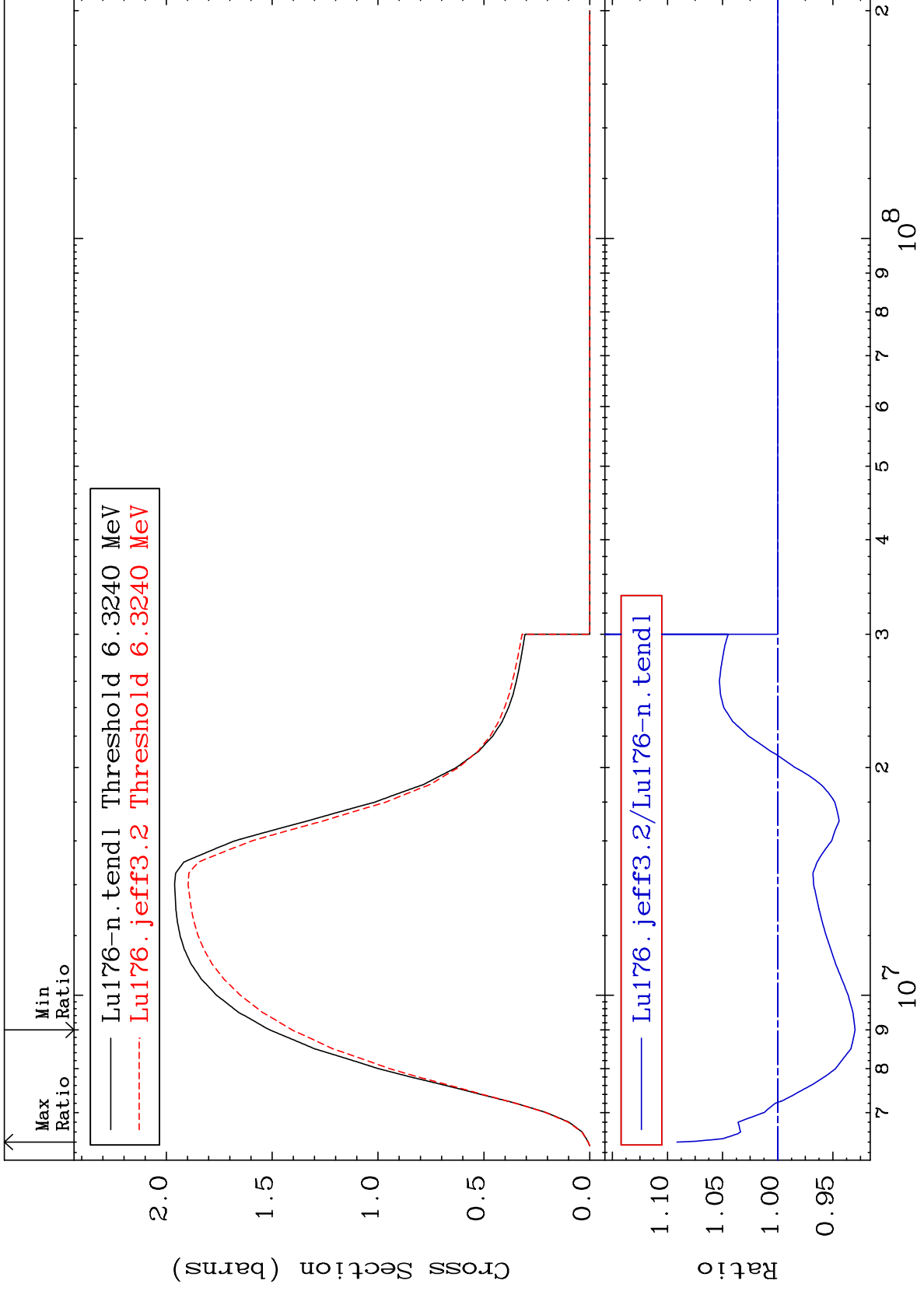
71-Lu-176
-1.895 To 43.91 %



MAT 7128

(n,2n)
Cross Section

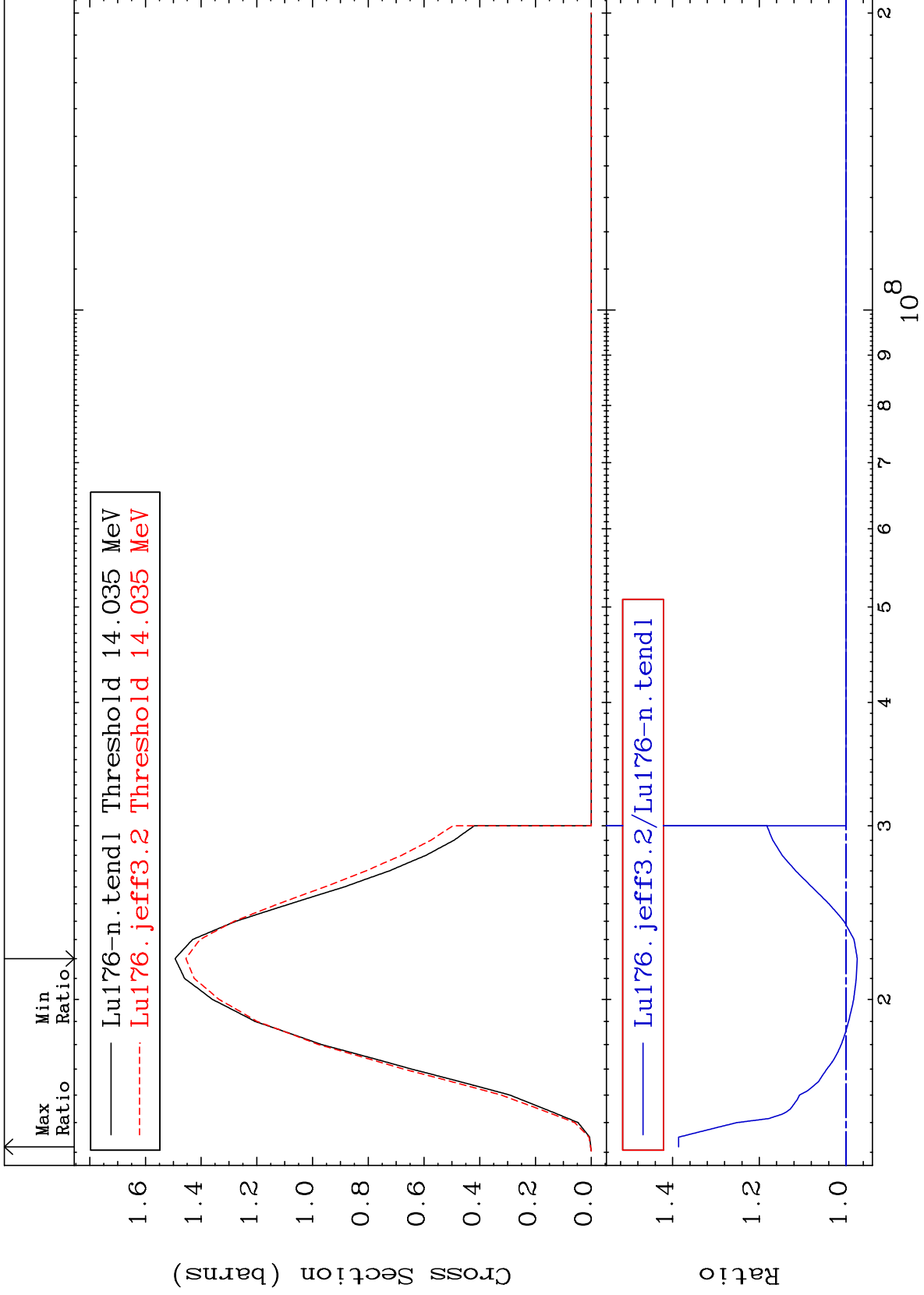
71-Lu-176
-7.017 To 9.144 %



MAT 7128

(n,3n)
Cross Section

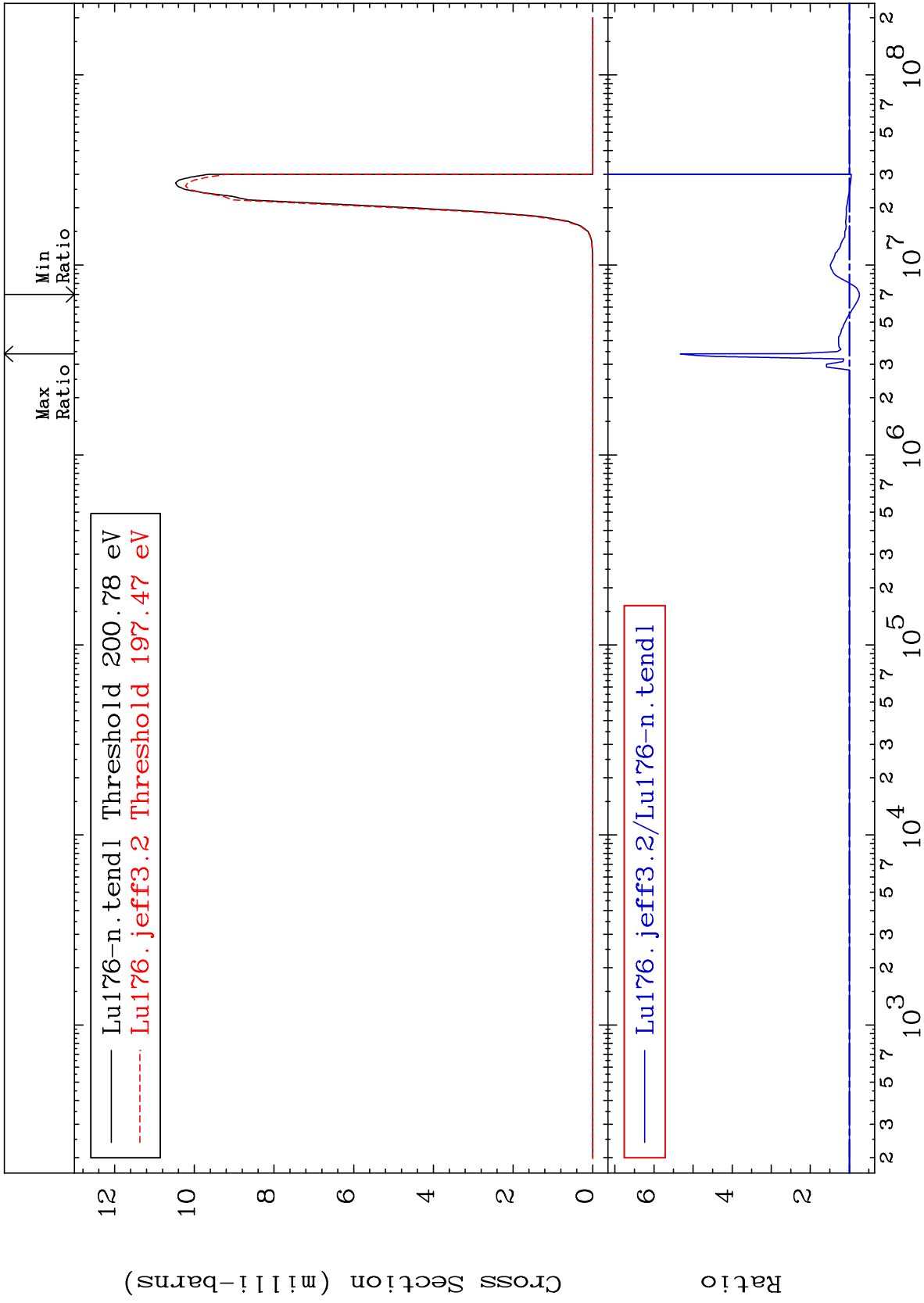
71-Lu-176
-2.594 To 38.61 %



MAT 7128

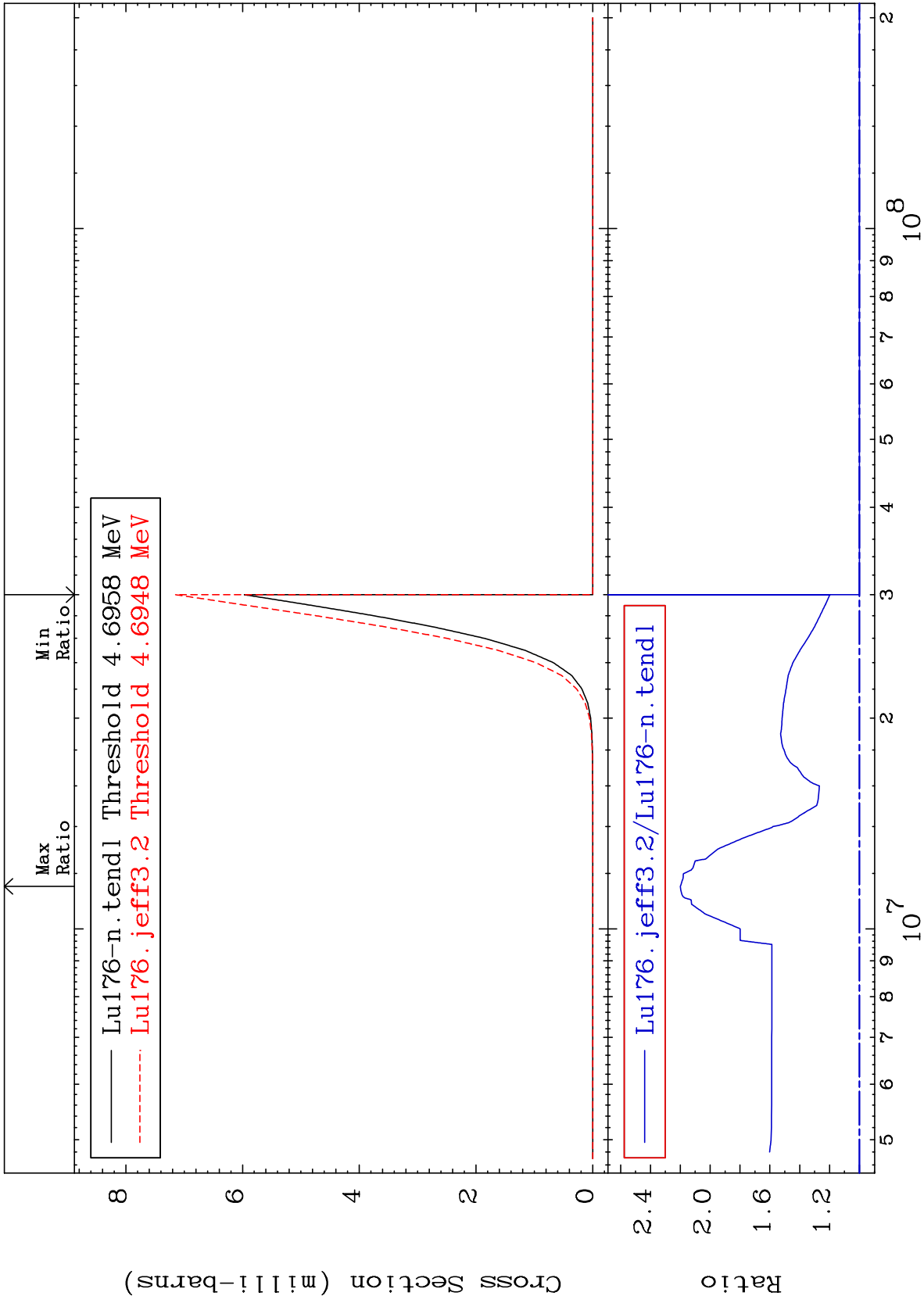
(n, n') α
Cross Section

71-Lu-176
-25.74 To 432.5 %



MAT 7128

(n,2n) α
Cross Section
71-Lu-176
To 120.0 %
0.000



8

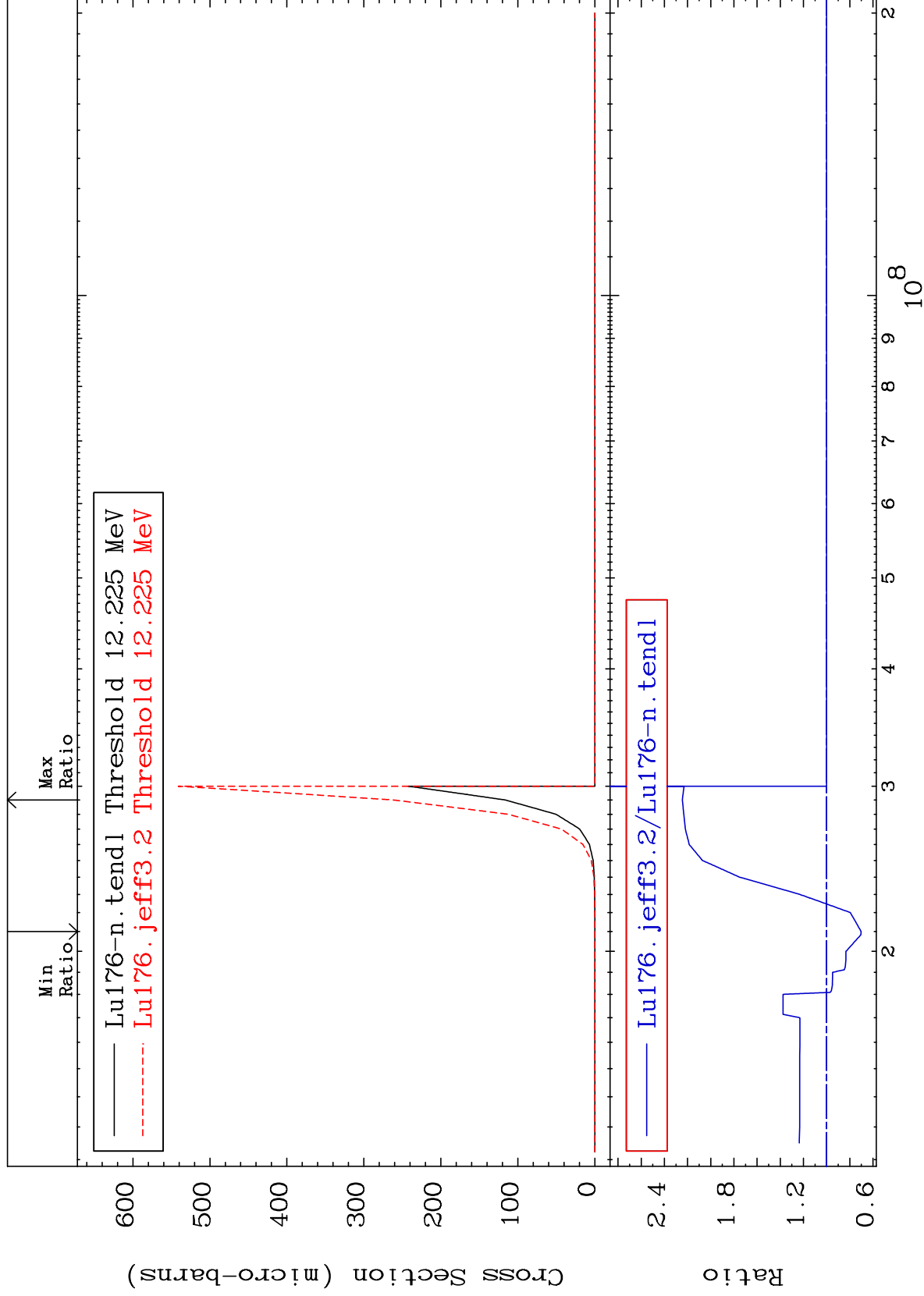
Incident Energy (eV)

71-Lu-176

MAT 7128

(n,3n) α
Cross Section

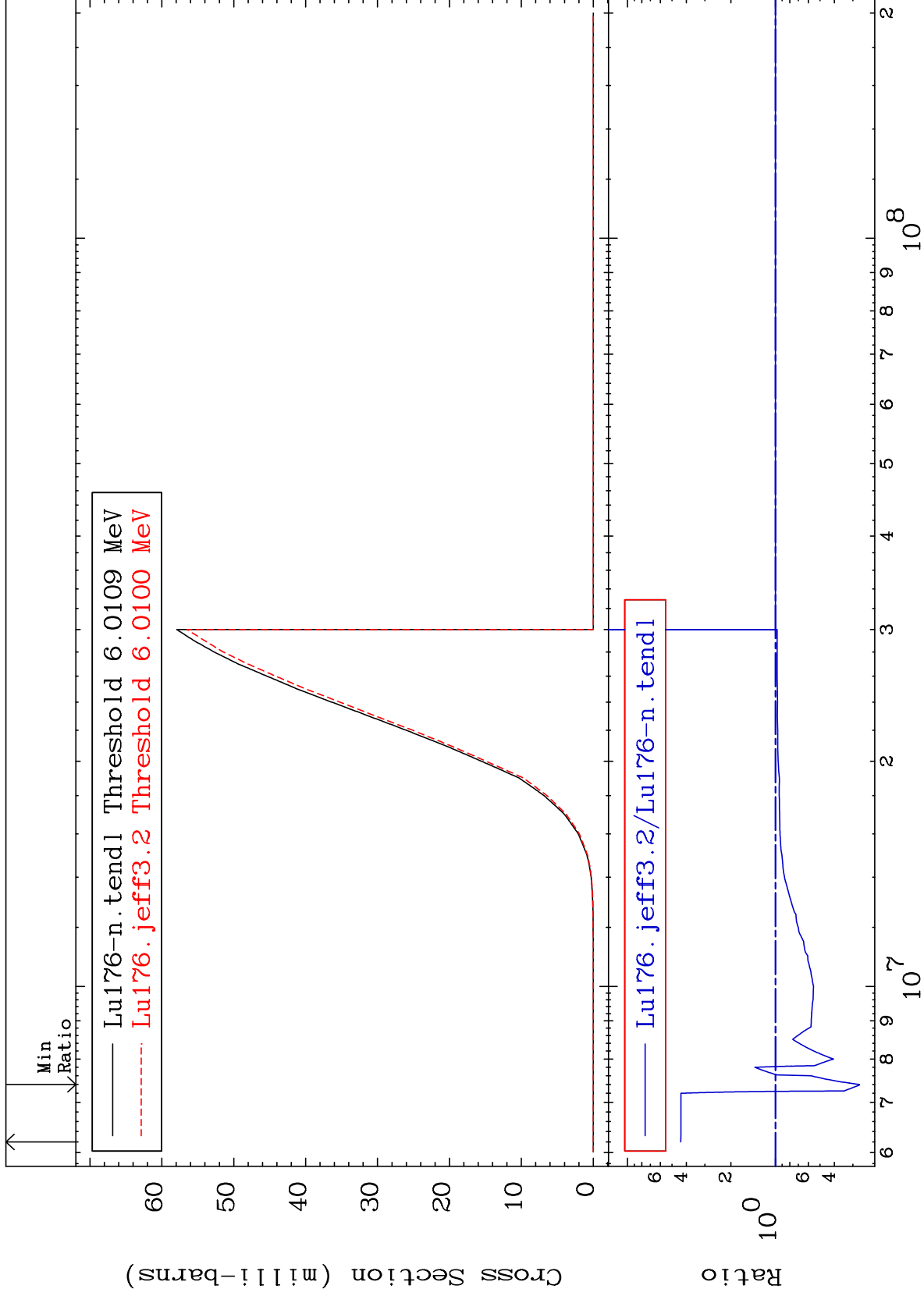
⁷¹Lu-¹⁷⁶
-29.77 To 124.5 %



MAT 7128

(n, n') p
Cross Section

71-Lu-176
-72.99 To 336.2 %



Incident Energy (eV)

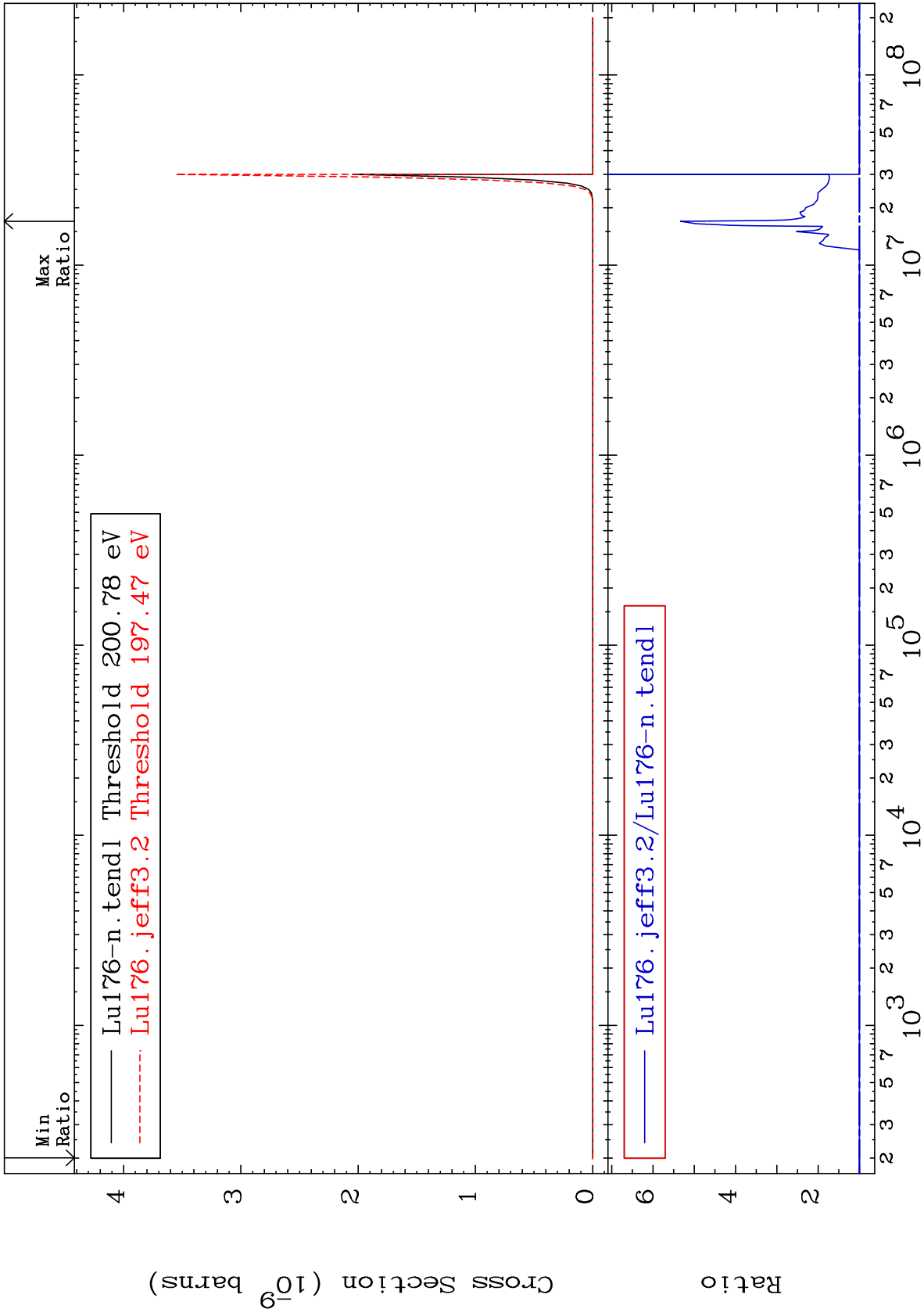
71-Lu-176

10

MAT 7128

(n, n') 2α
Cross Section

71-Lu-176
To 433.6 %



11

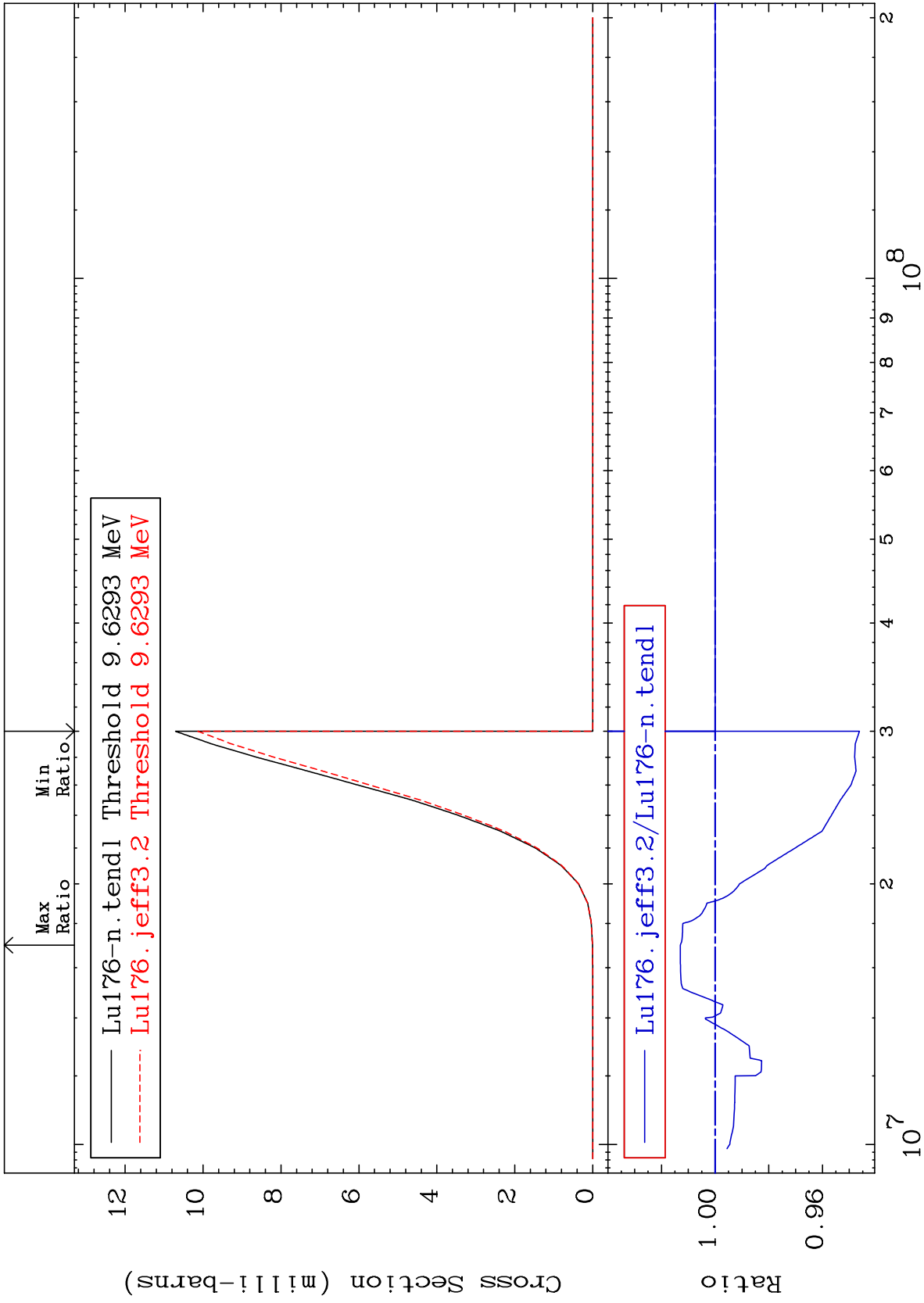
Incident Energy (eV)

71-Lu-176

MAT 7128

(n, n') d
Cross Section

⁷¹-Lu-176
-5.379 To 1.296 %



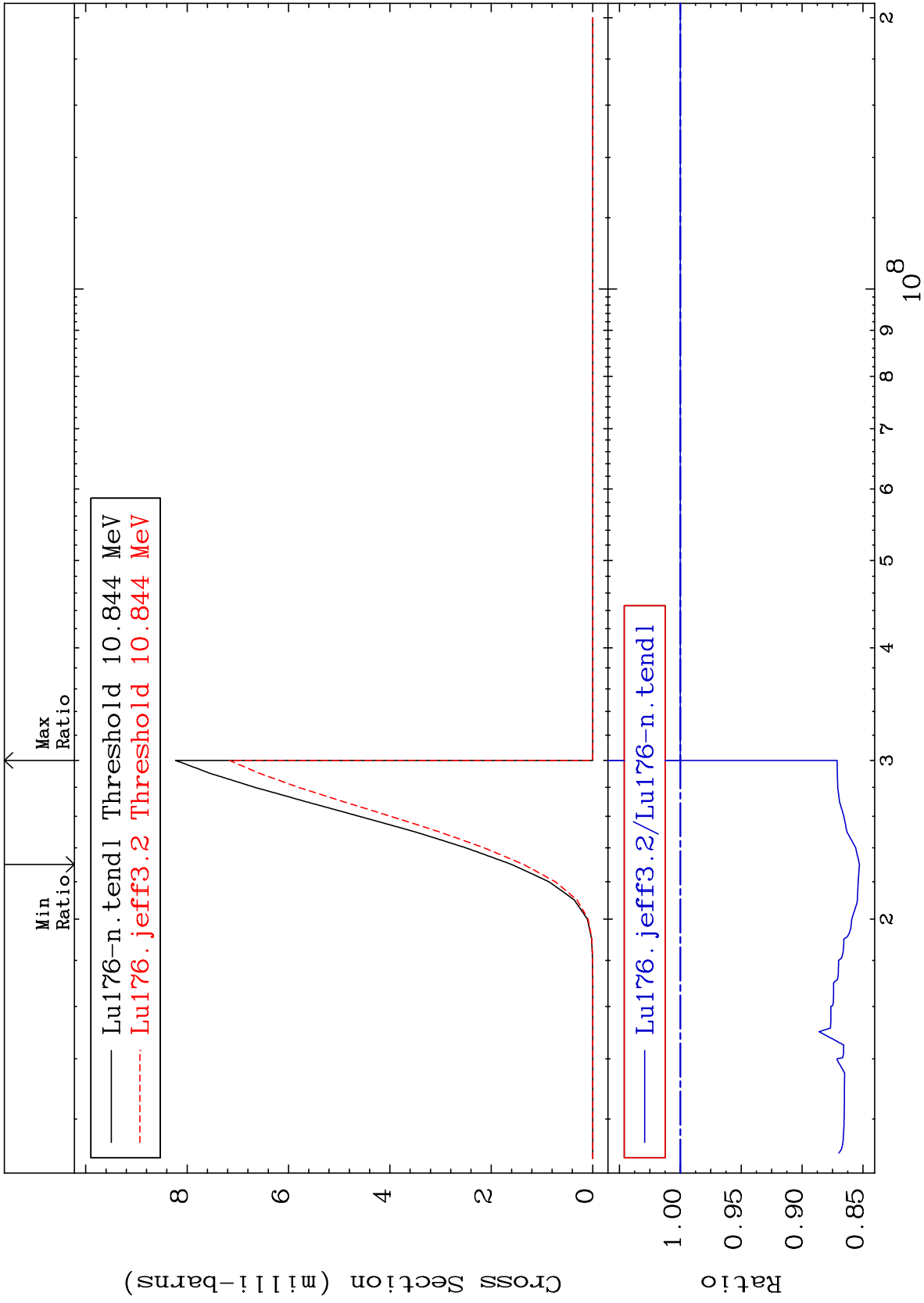
MAT 7128

(n,n') t

71-Lu-176

Cross Section

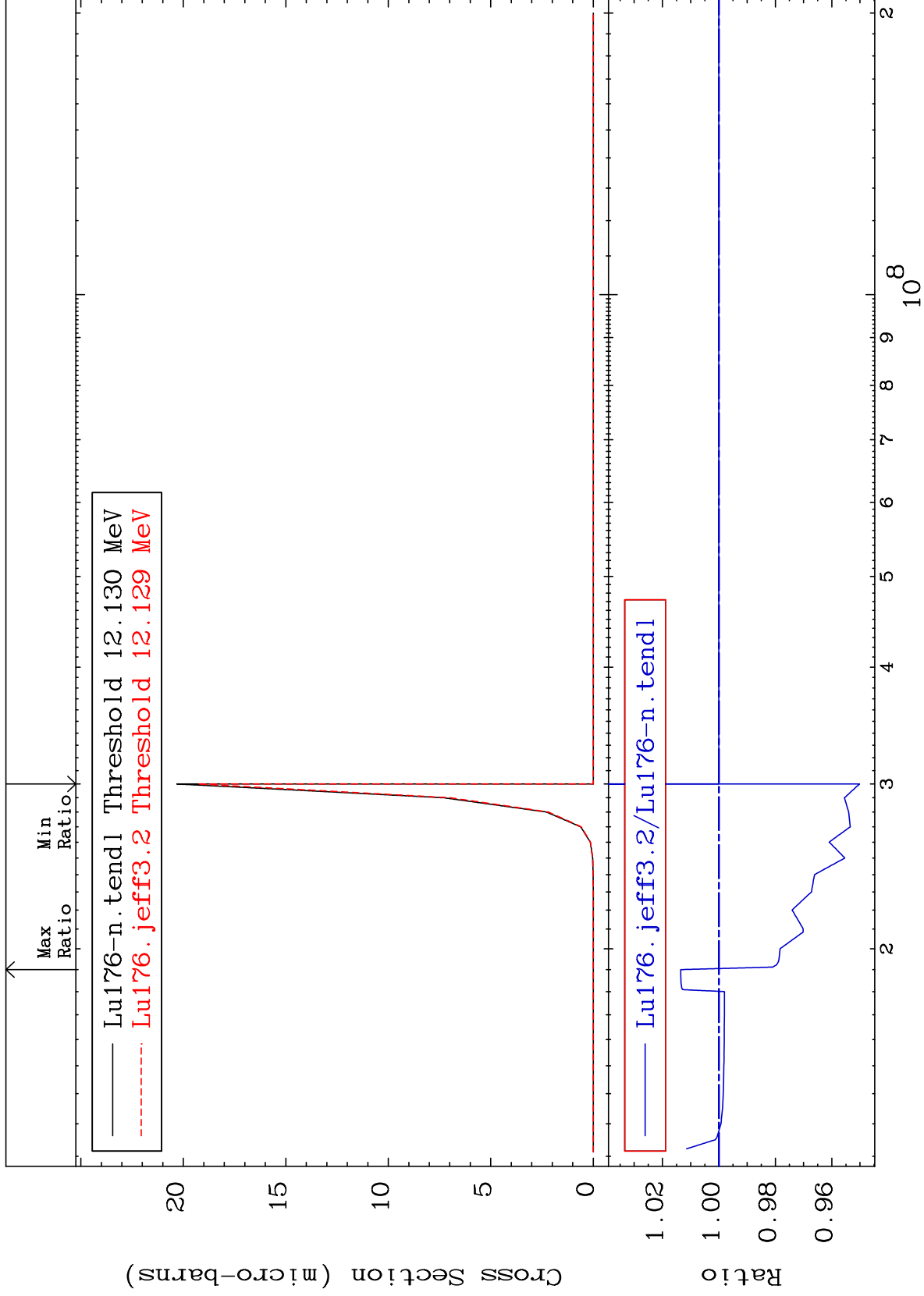
-14.71 To 0.000 %



MAT 7128

(n, n') He-3
Cross Section

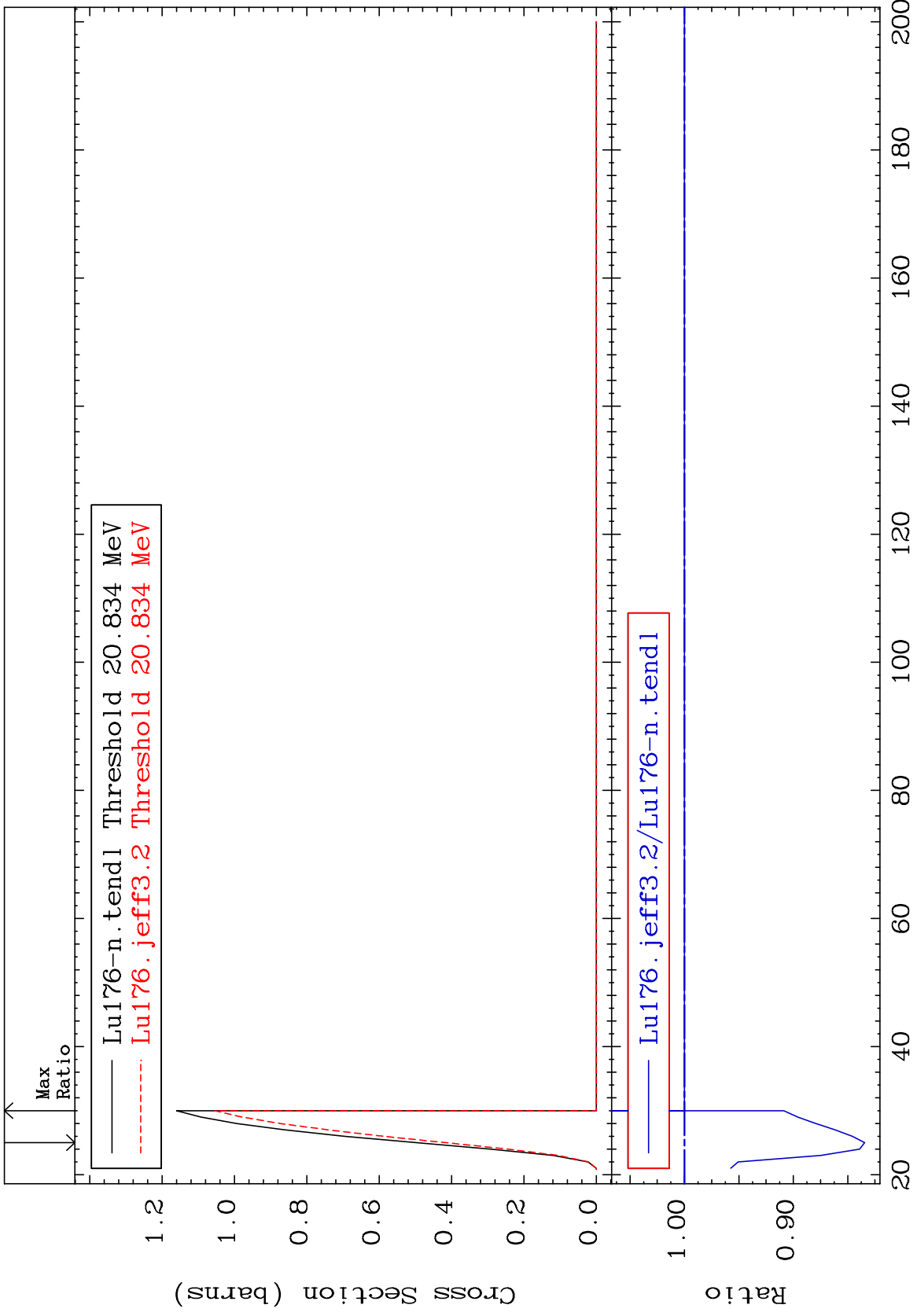
⁷¹Lu-176
-4.982 To 1.350 %



MAT 7128

(n,4n)
Cross Section

⁷¹Lu-¹⁷⁶
-16.55 To 0.000 %



15

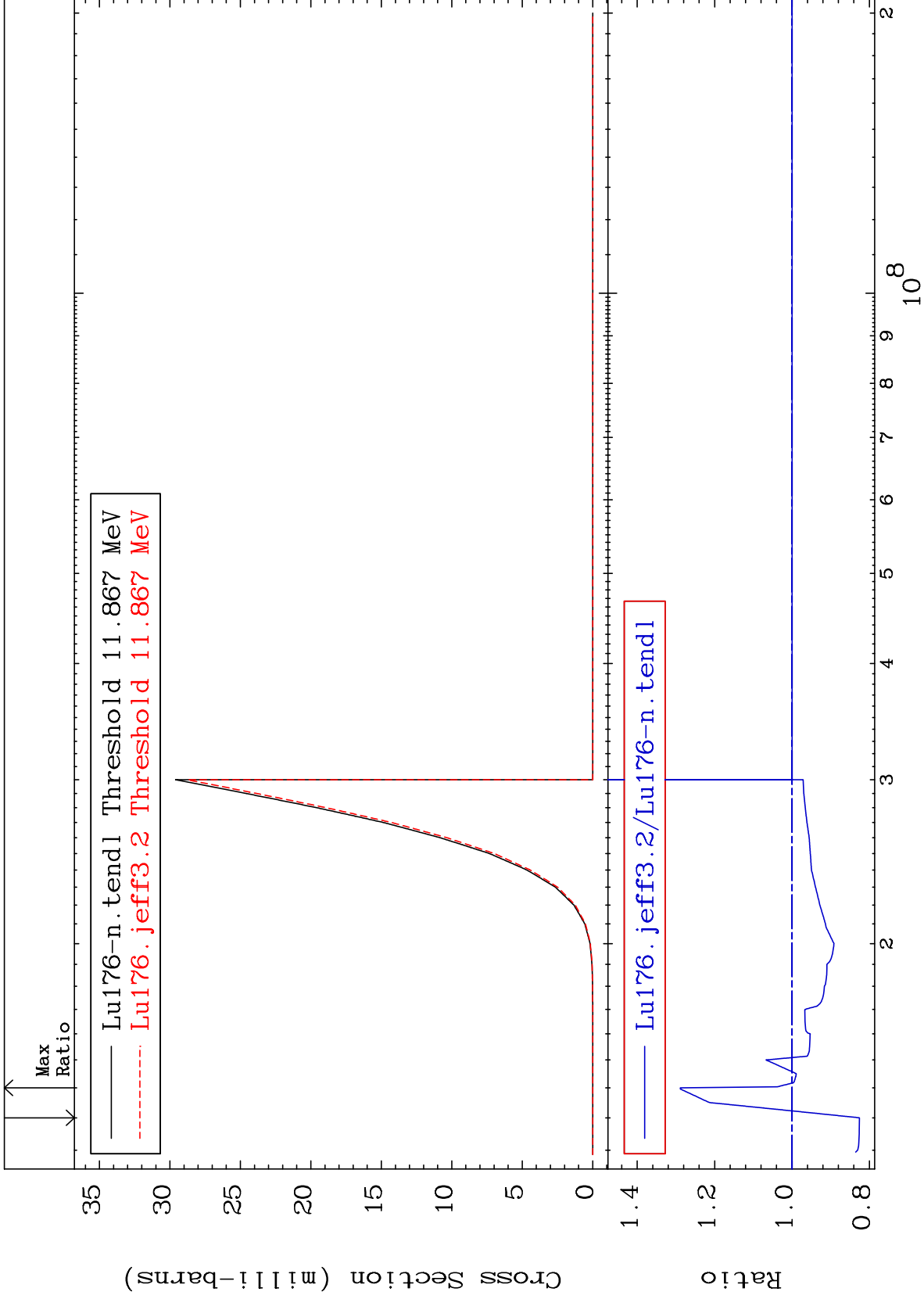
Incident Energy (MeV)

⁷¹Lu-¹⁷⁶

MAT 7128

(n,2n) p
Cross Section

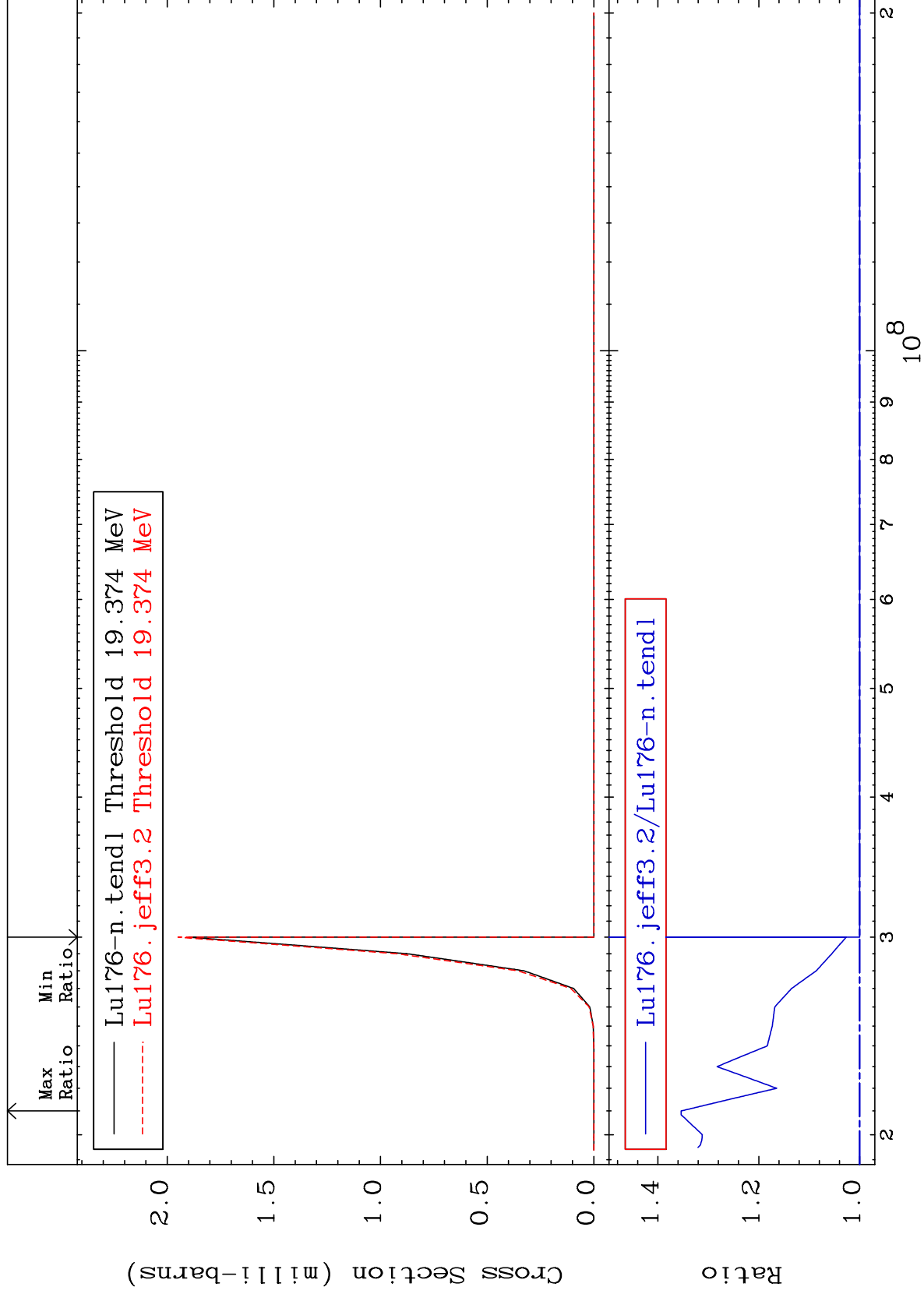
71-Lu-176
-17.43 To 28.85 %



MAT 7128

(n,3n) p
Cross Section

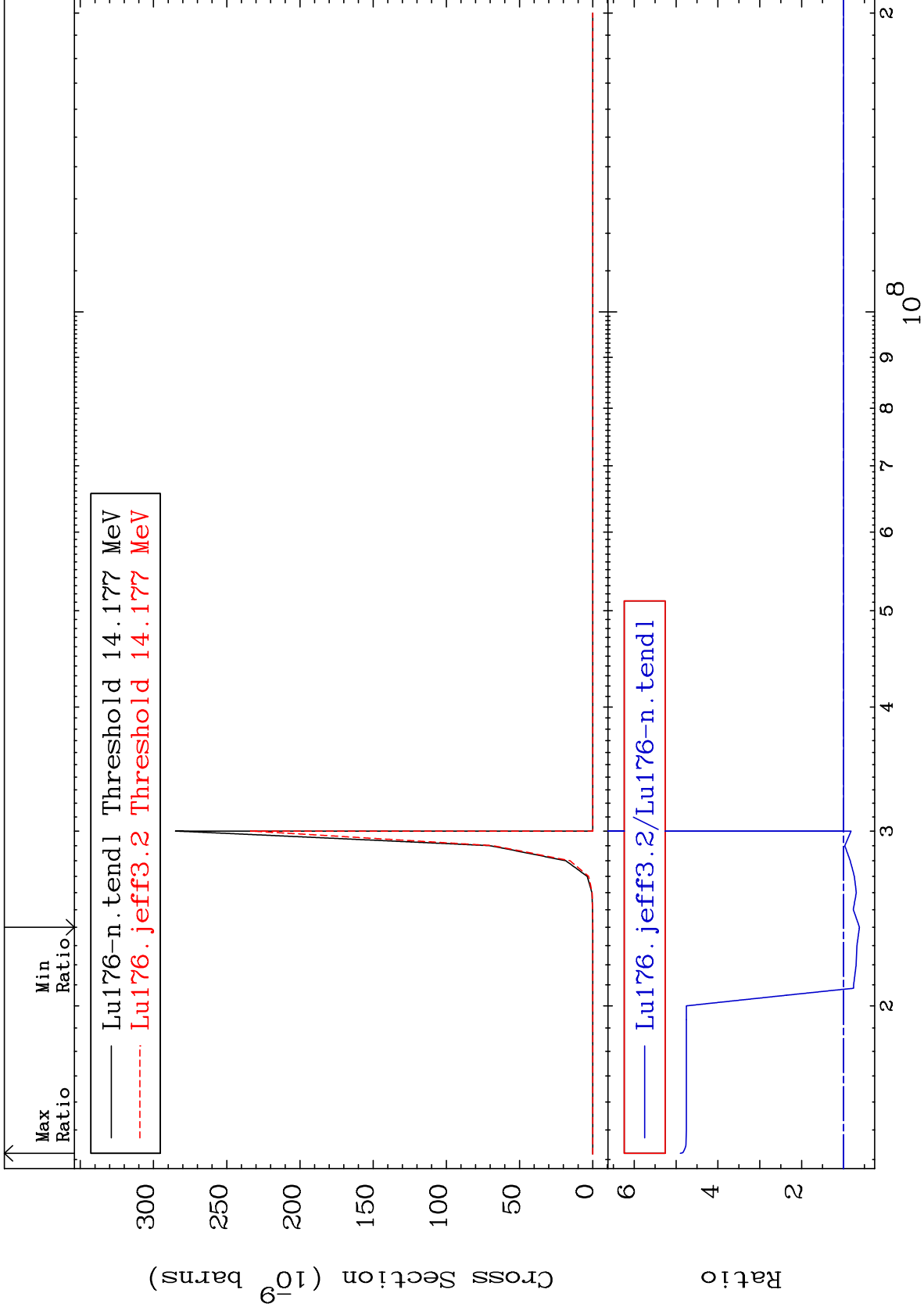
⁷¹Lu-176
0.000 To 35.38 %



MAT 7128

(n,2n) p
Cross Section

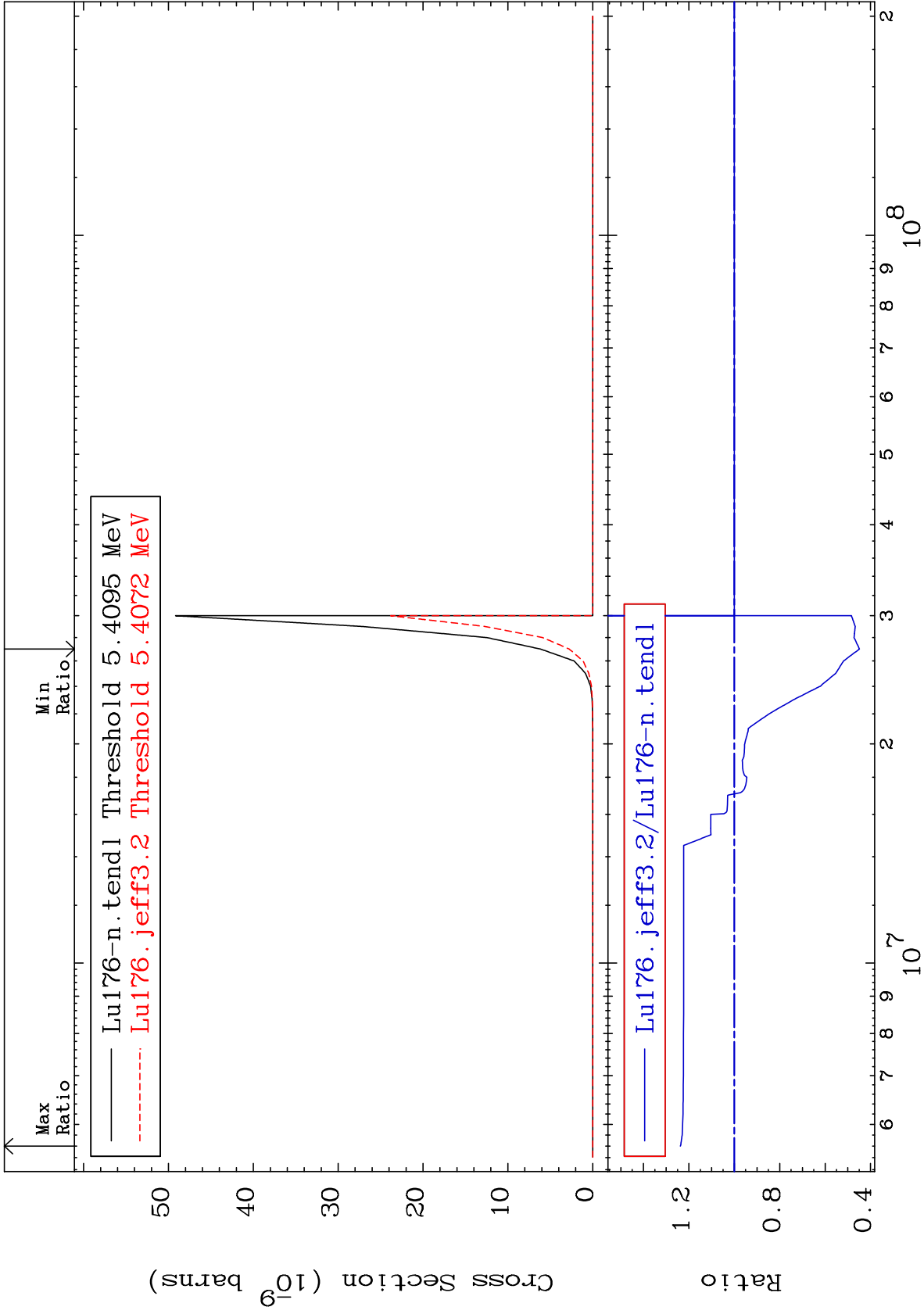
⁷¹Lu-¹⁷⁶
-38.07 To 389.8 %



MAT 7128

(n,n') p α
Cross Section

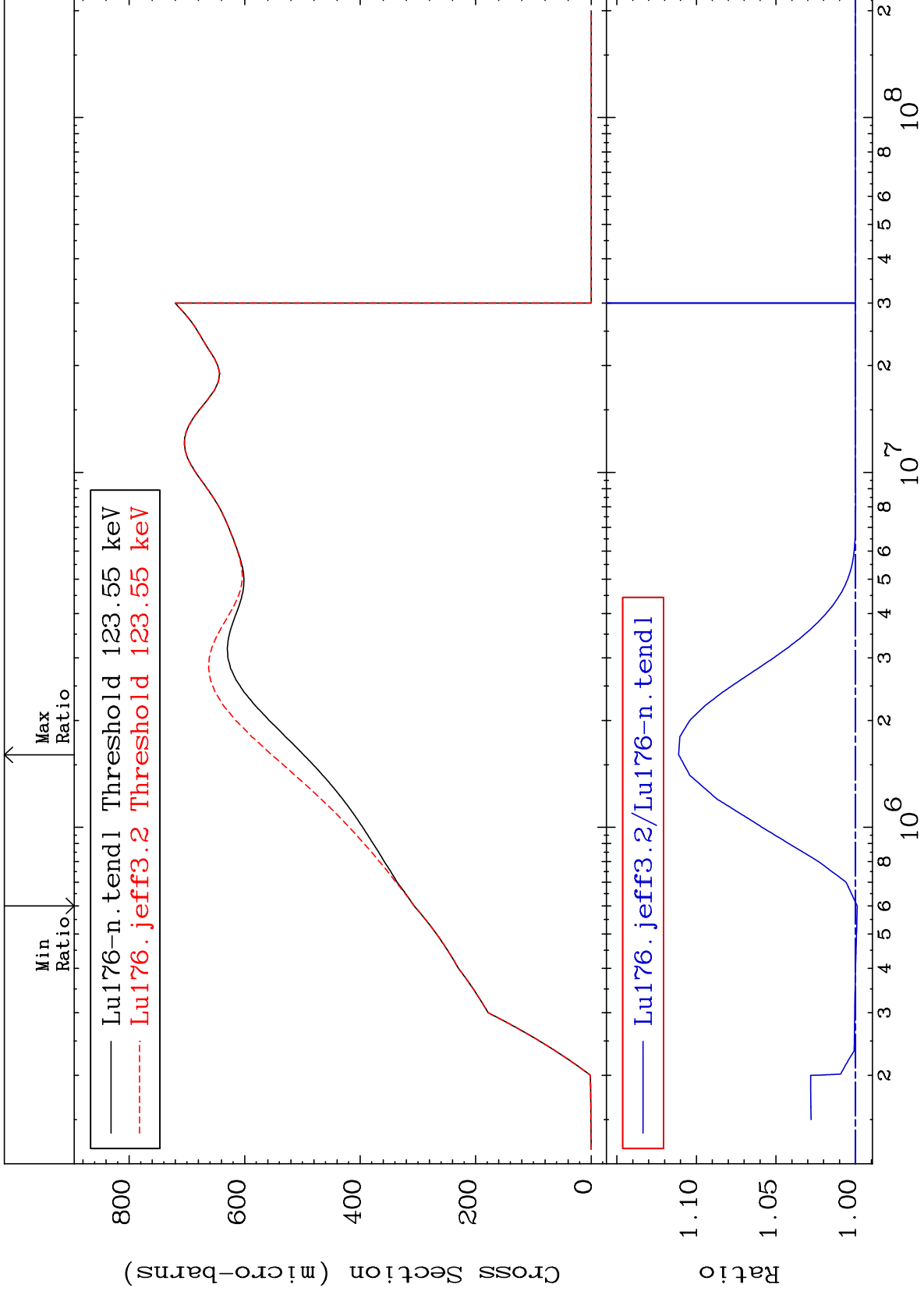
⁷¹Lu-¹⁷⁶Lu
-55.10 To 23.77 %



MAT 7128

122.8 keV (n,n') Level
Cross Section

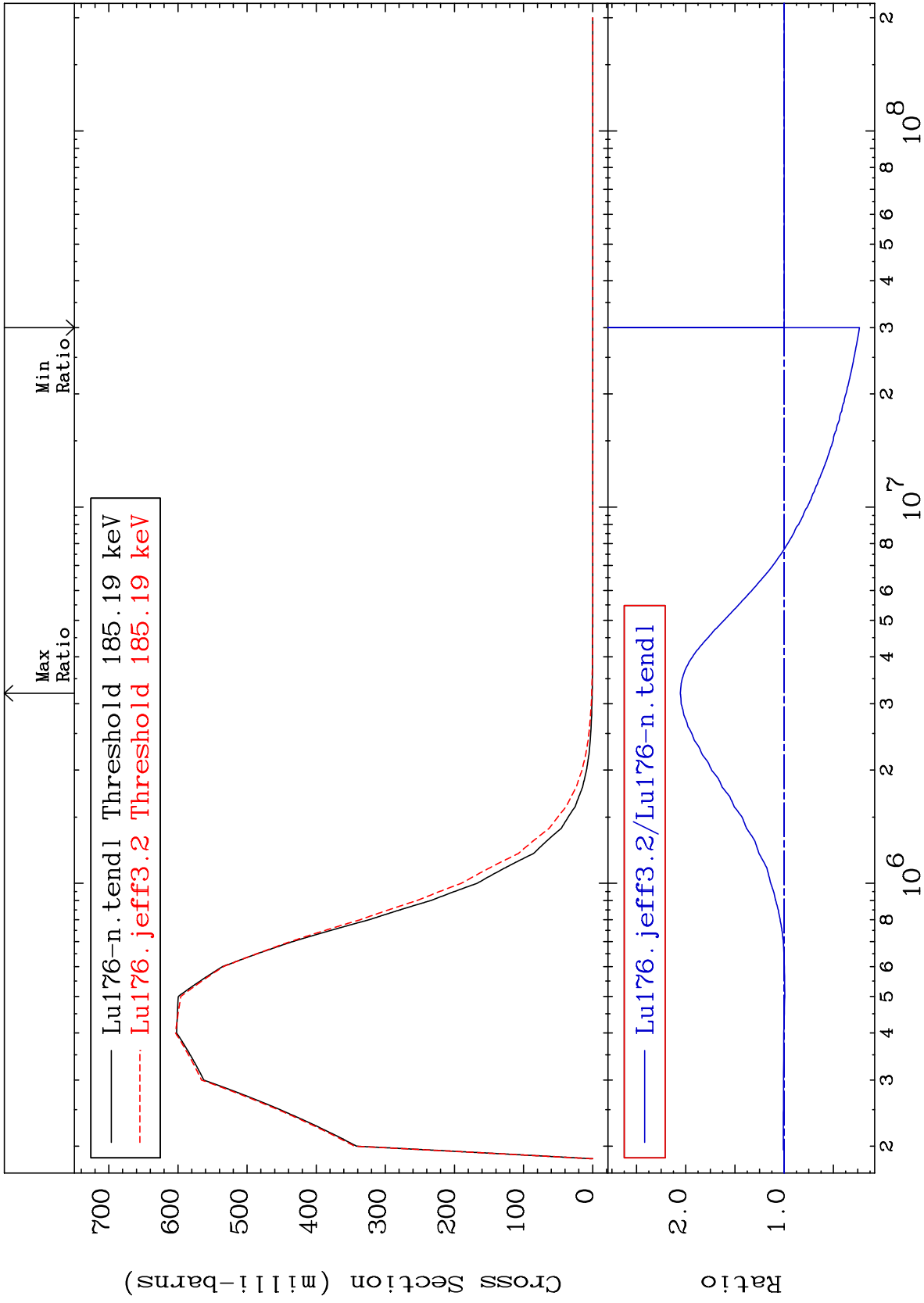
71-Lu-176
-0.112 To 11.12 %



MAT 7128

184.1 keV (n,n') Level
Cross Section

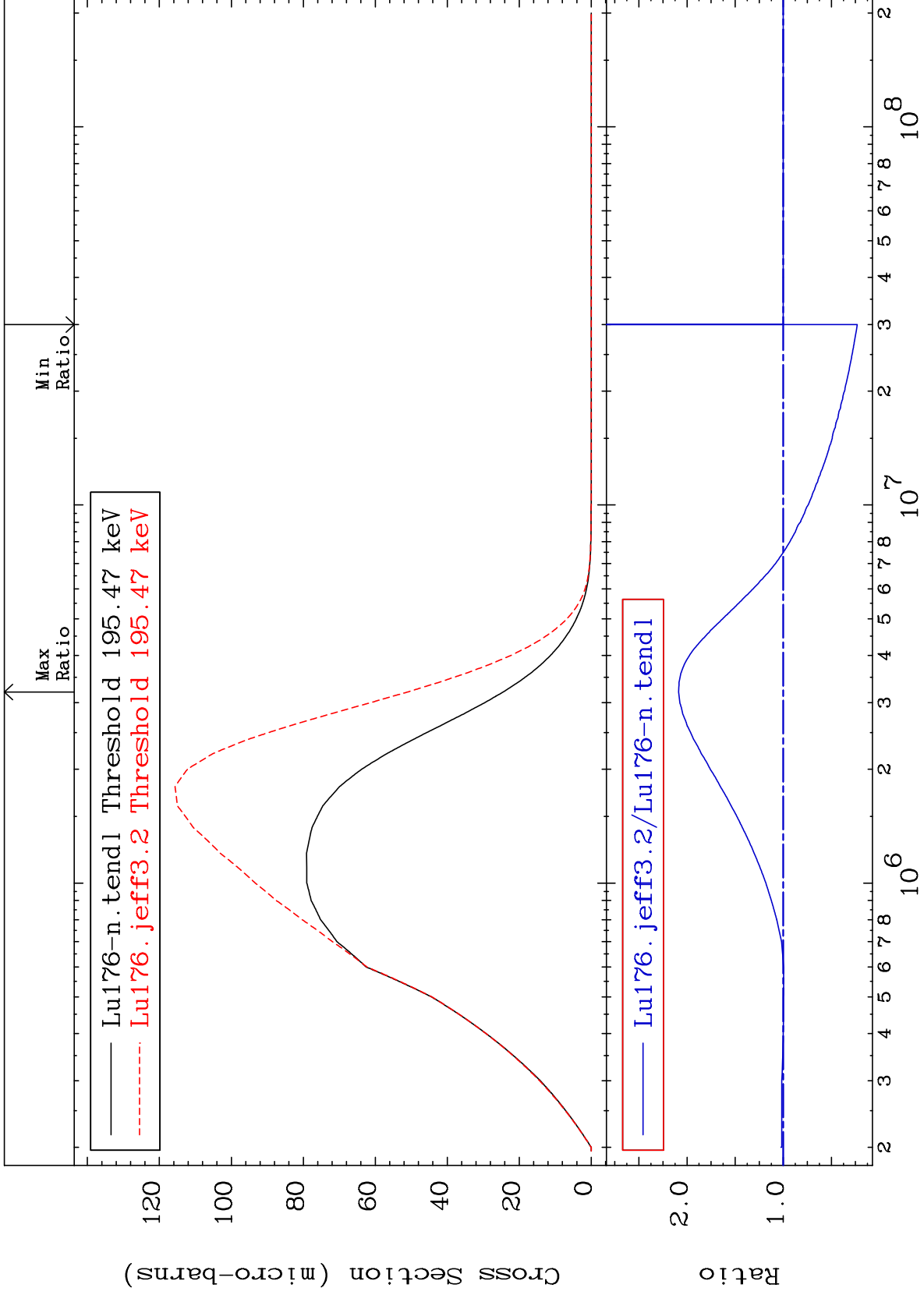
71-Lu-176
-76.60 To 105.5 %



MAT 7128

194.4 keV (n,n') Level
Cross Section

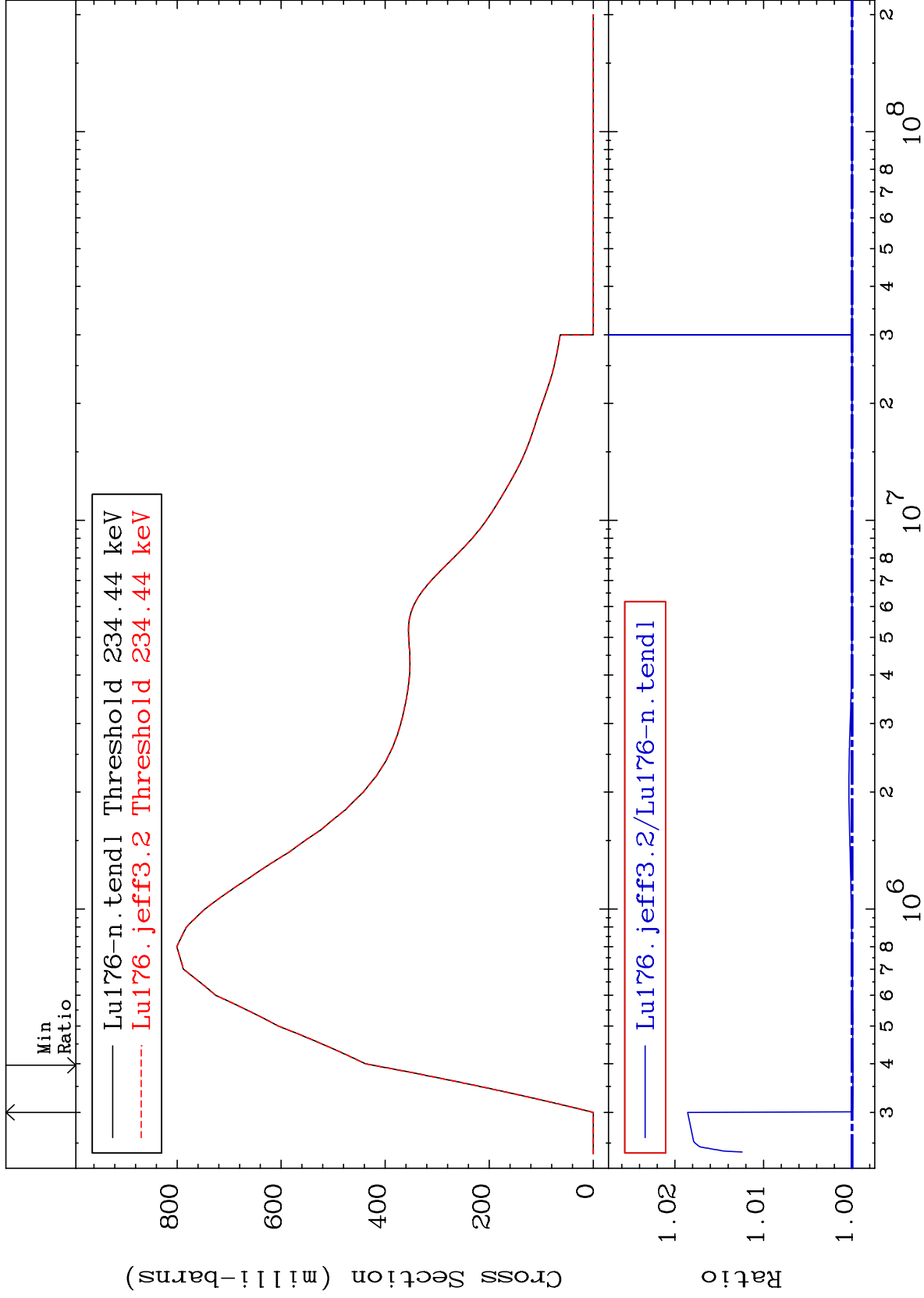
71-Lu-176
-76.84 To 108.7 %



MAT 7128

233.1 keV (n,n') Level
Cross Section

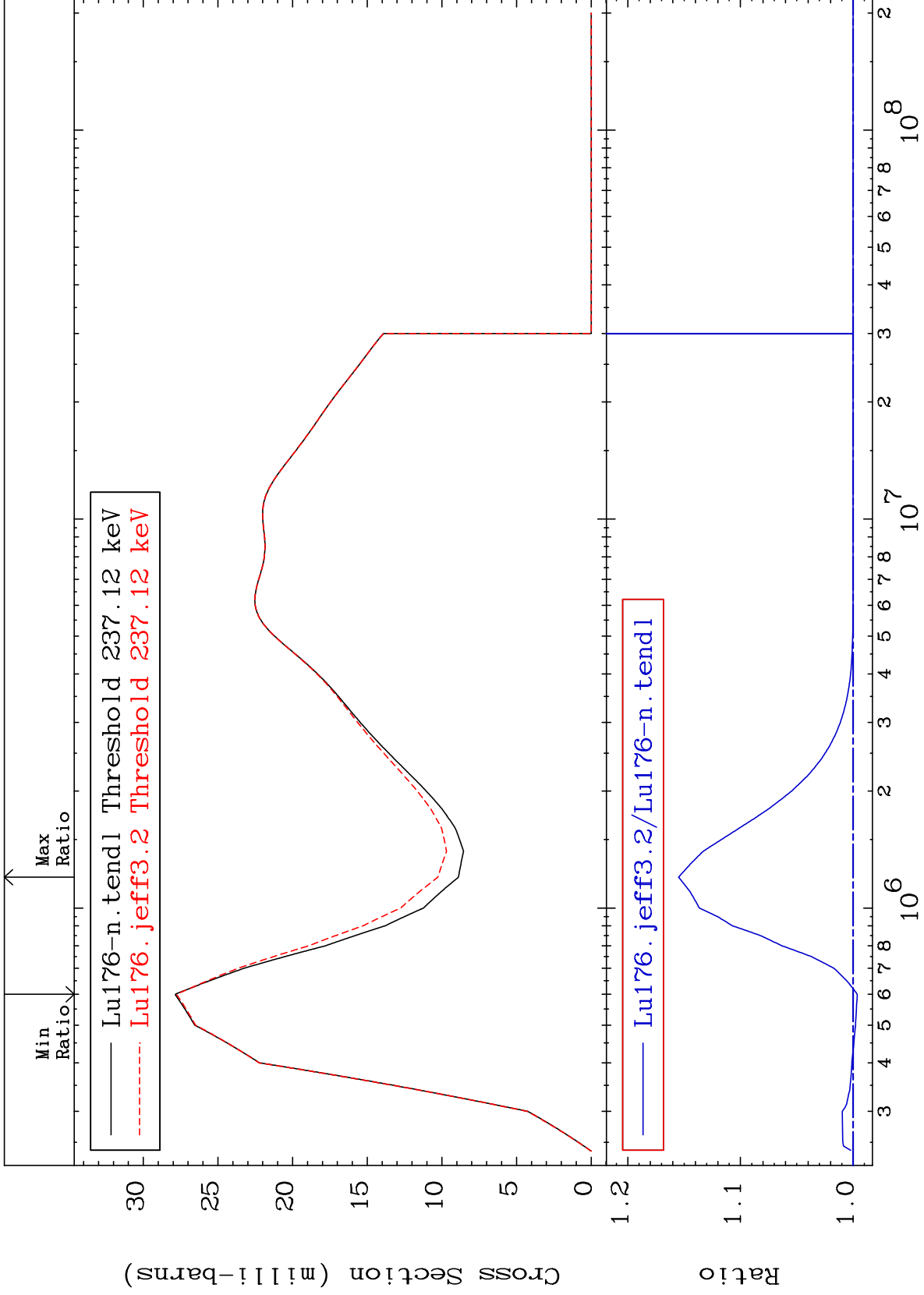
71-Lu-176
-0.008 To 1.858 %



MAT 7128

235.8 keV (n,n') Level
Cross Section

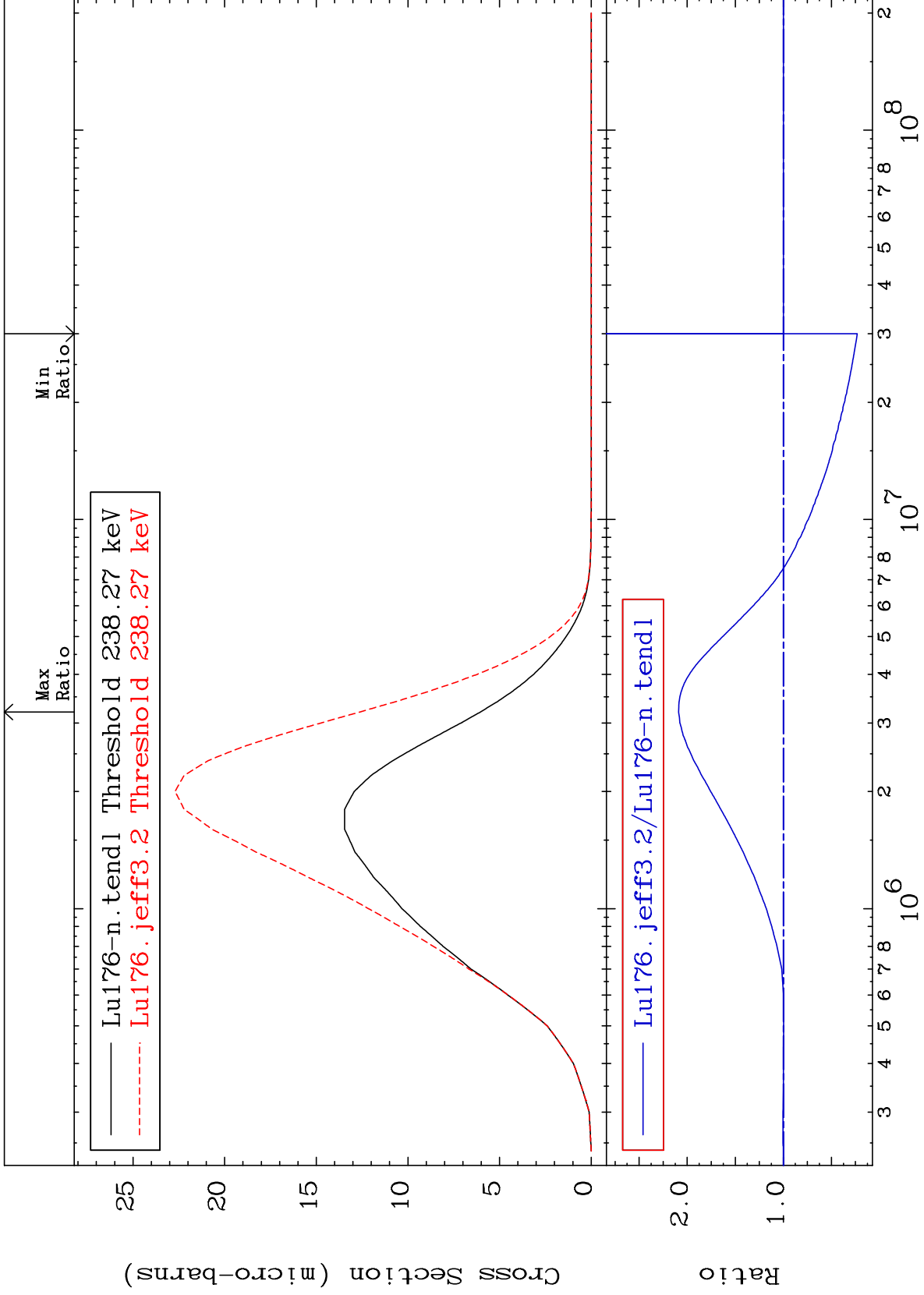
71-Lu-176
-0.365 To 15.49 %



MAT 7128

236.9 keV (n,n') Level
Cross Section

71-Lu-176
-76.85 To 108.9 %



25

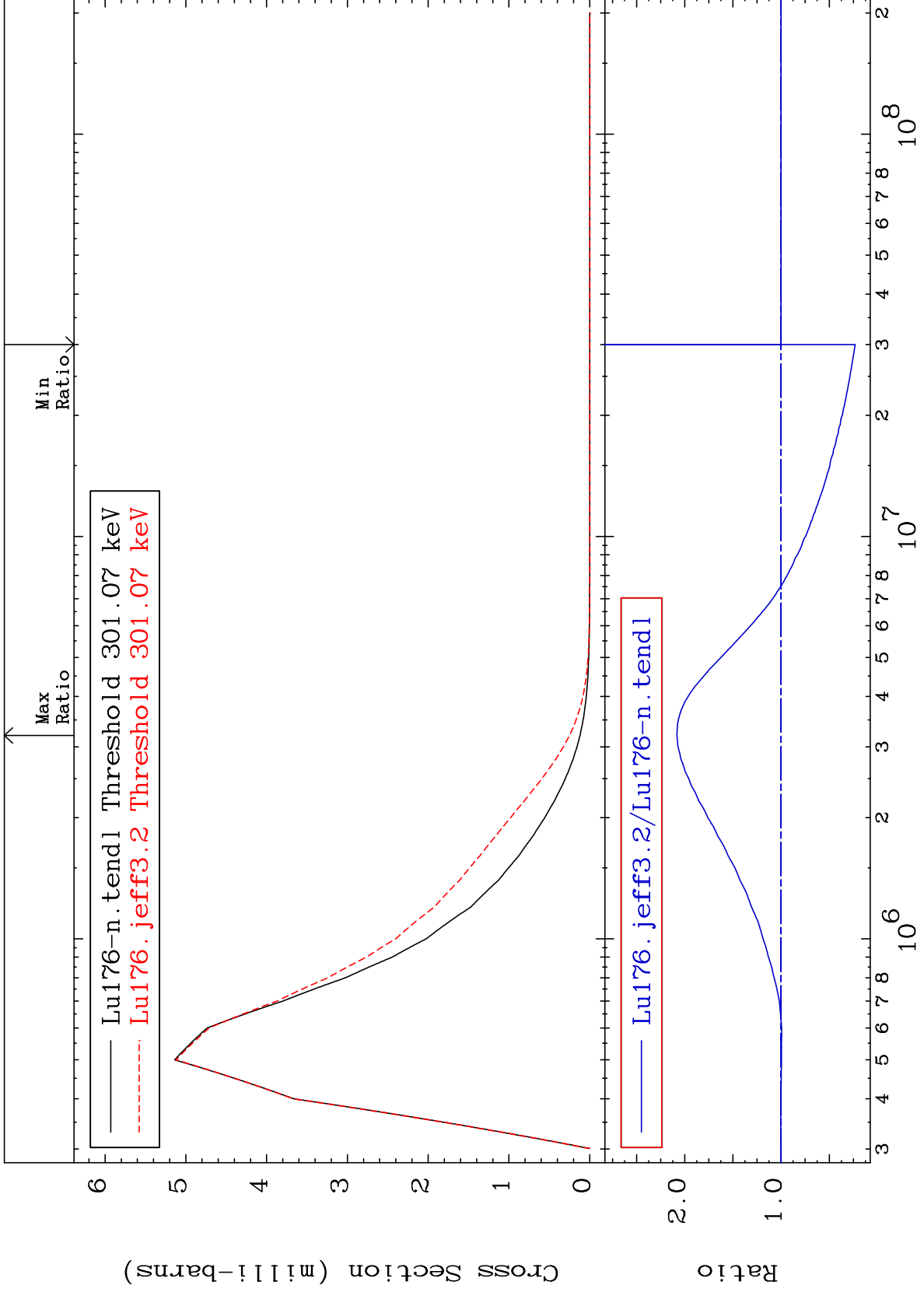
Incident Energy (eV)

71-Lu-176

MAT 7128

299.3 keV (n,n') Level
Cross Section

71-Lu-176
-76.81 To 108.1 %



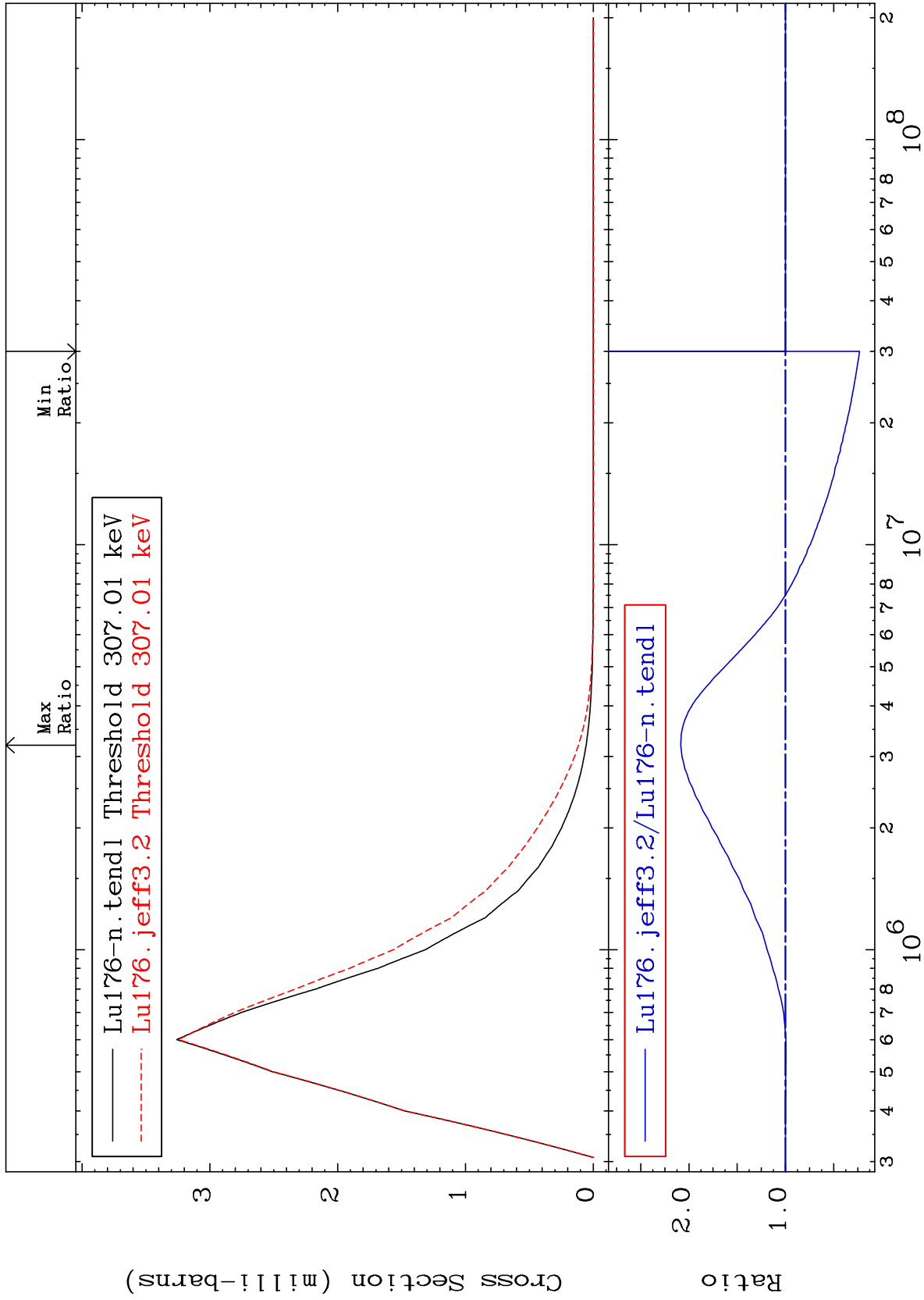
MAT 7128

305.3 keV (n,n') Level

71-Lu-176

Cross Section

-76.83 To 108.5 %



27

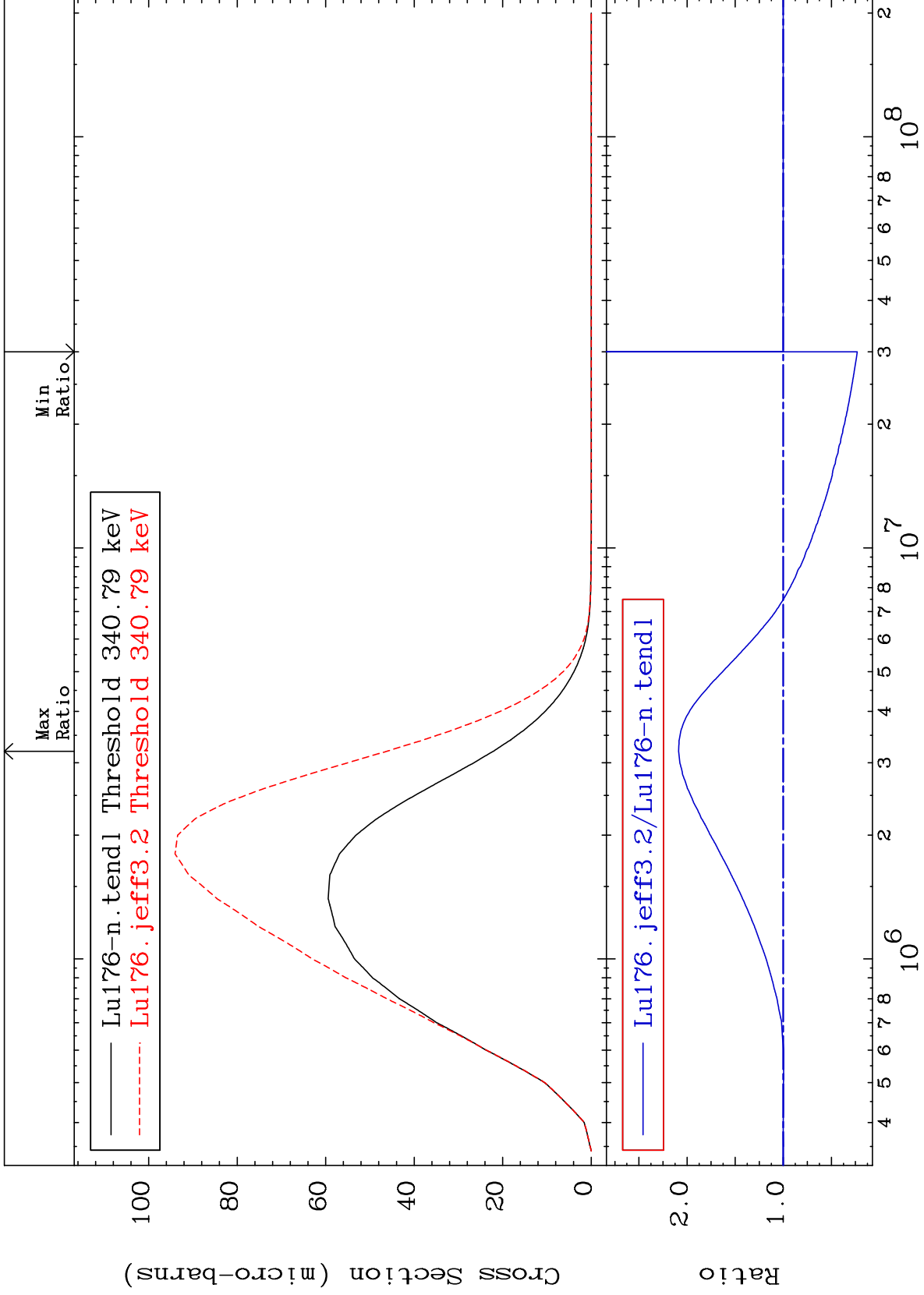
Incident Energy (eV)

71-Lu-176

MAT 7128

338.8 keV (n,n') Level
Cross Section

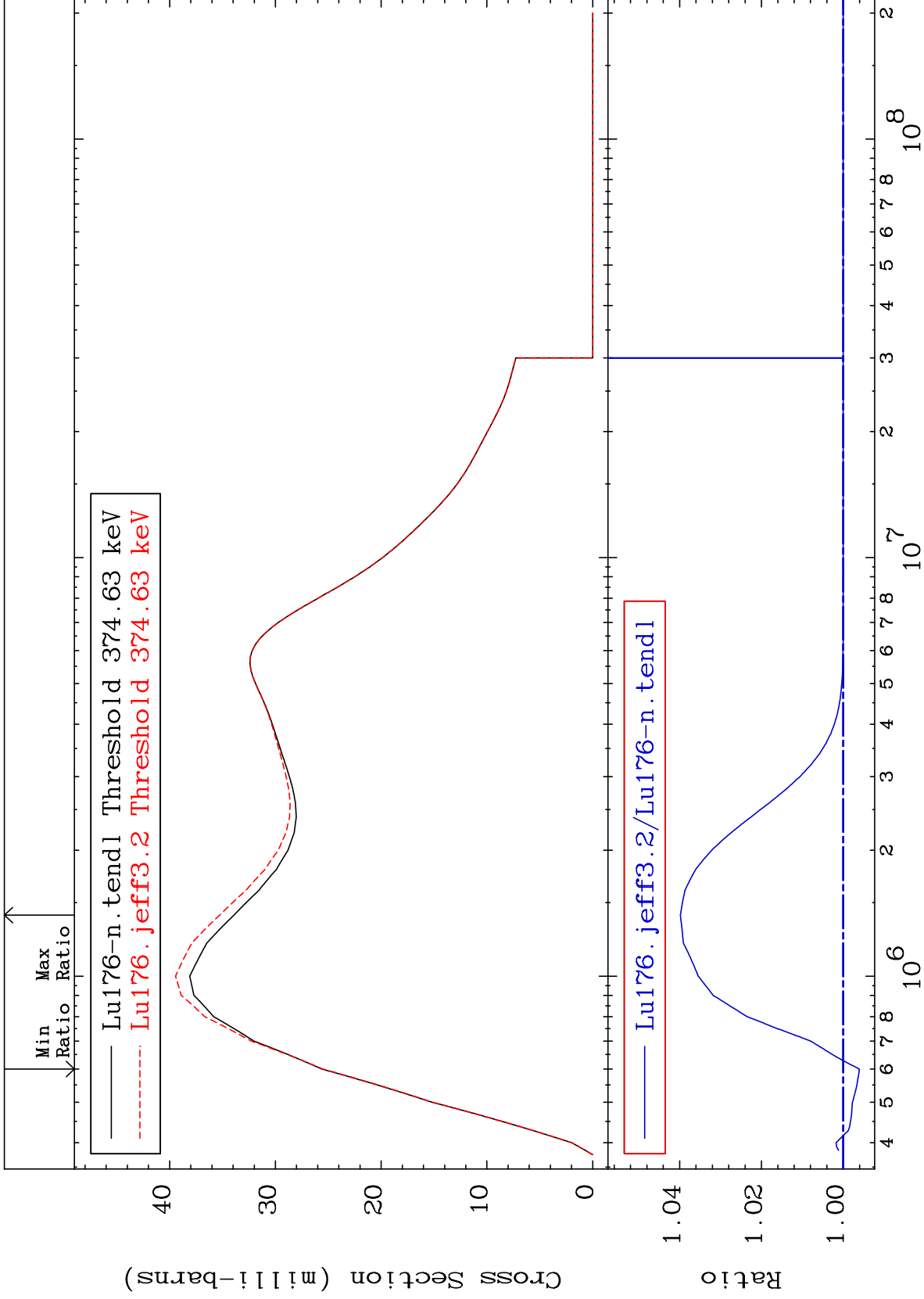
⁷¹Lu-¹⁷⁶
-76.84 To 108.7 %



MAT 7128

372.5 keV (n,n') Level
Cross Section

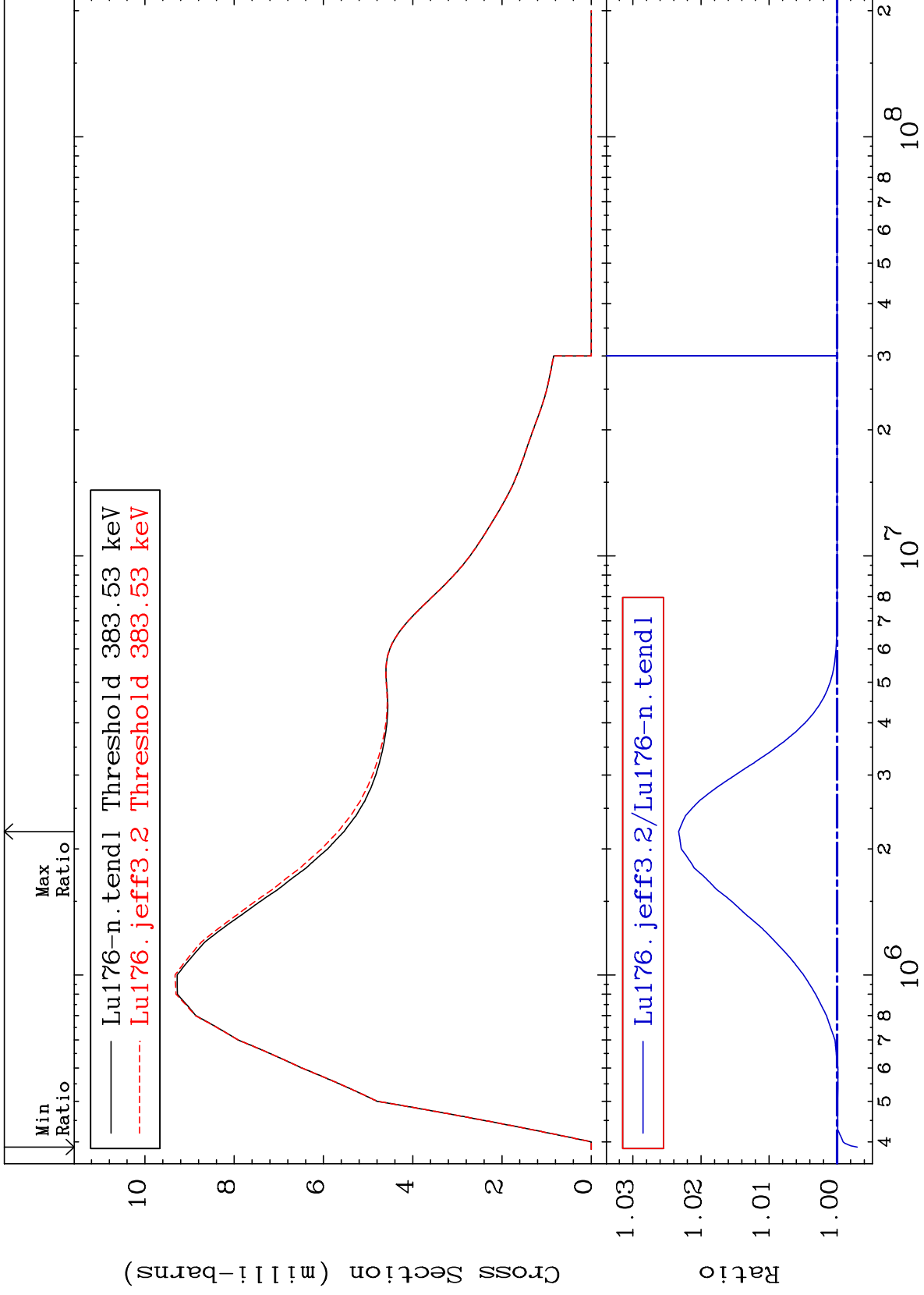
71-Lu-176
-0.396 To 3.983 %



MAT 7128

381.3 keV (n,n') Level
Cross Section

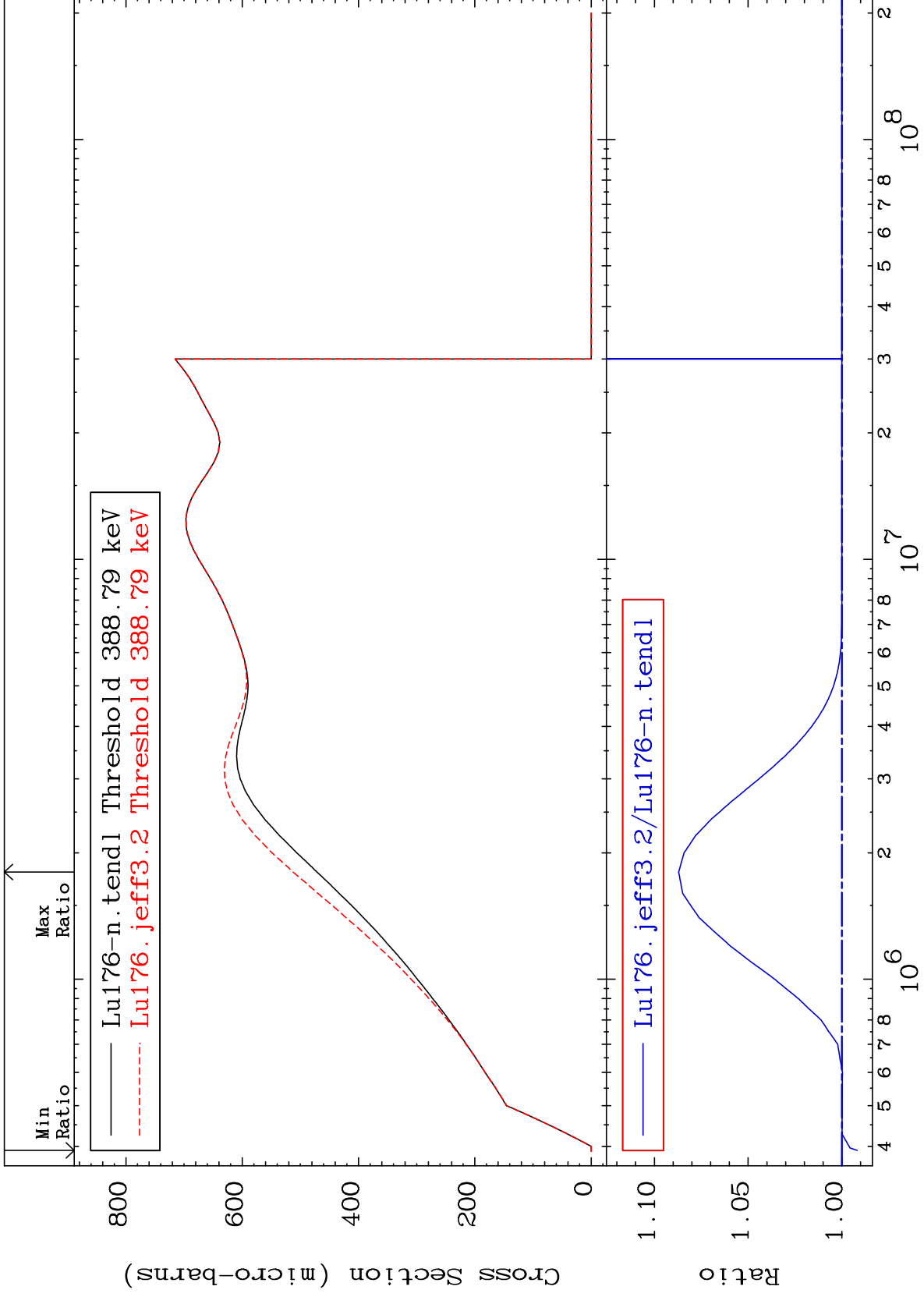
71-Lu-176
-0.296 To 2.328 %



MAT 7128

386.6 keV (n,n') Level
Cross Section

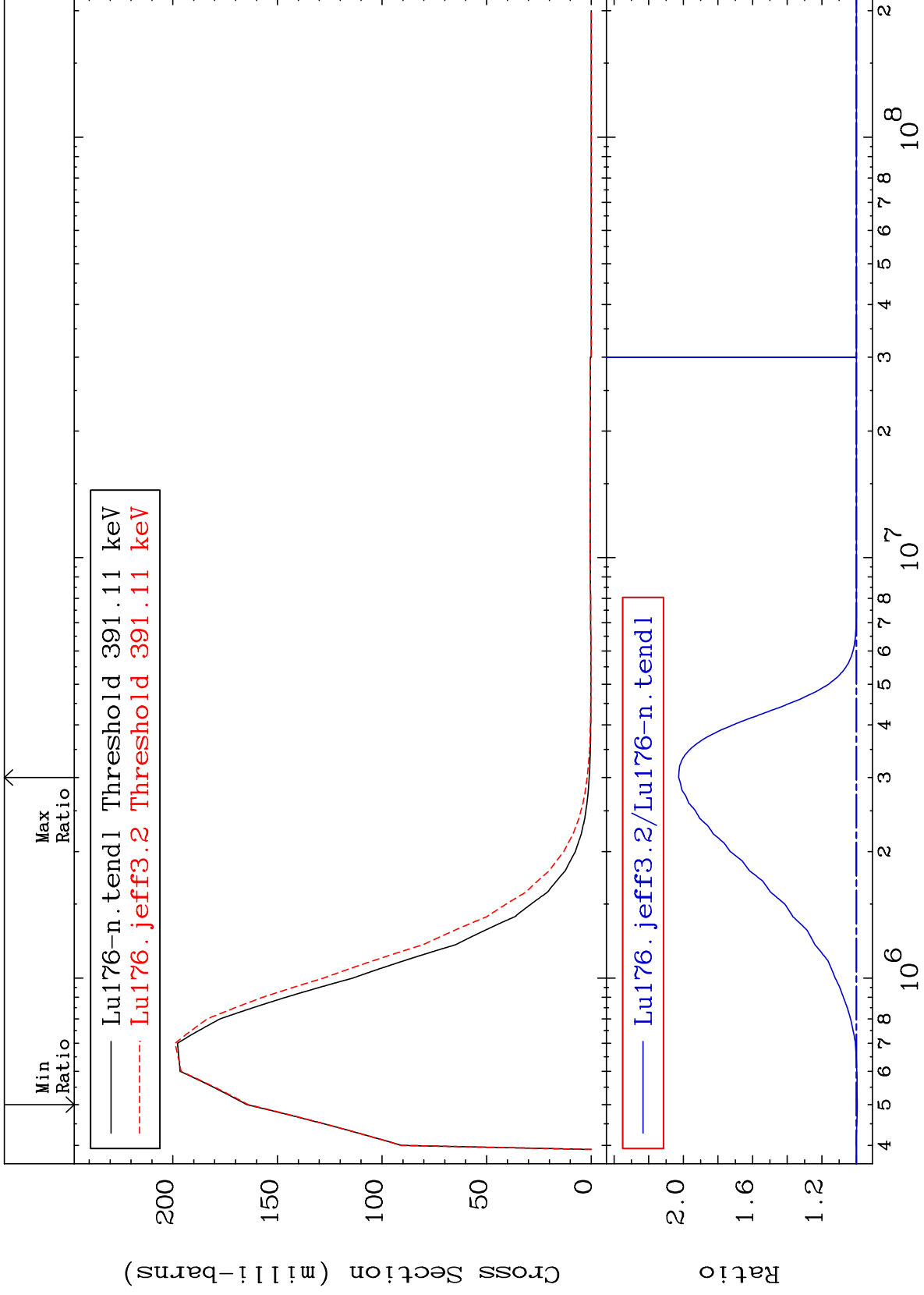
⁷¹-Lu-176
-0.820 To 8.707 %



MAT 7128

388.9 keV (n,n') Level
Cross Section

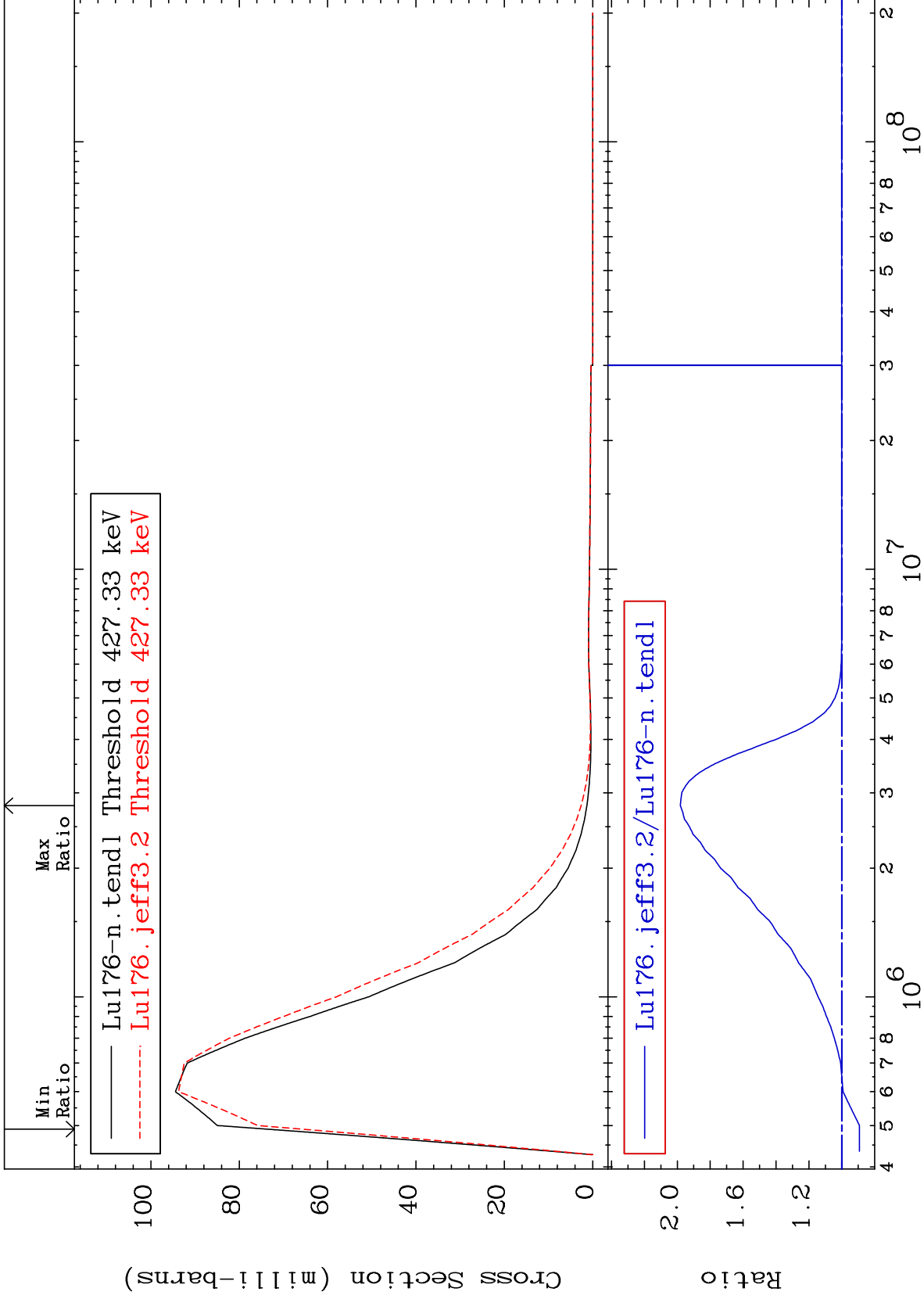
71-Lu-176
-0.449 To 102.7 %



MAT 7128

424.9 keV (n,n') Level
Cross Section

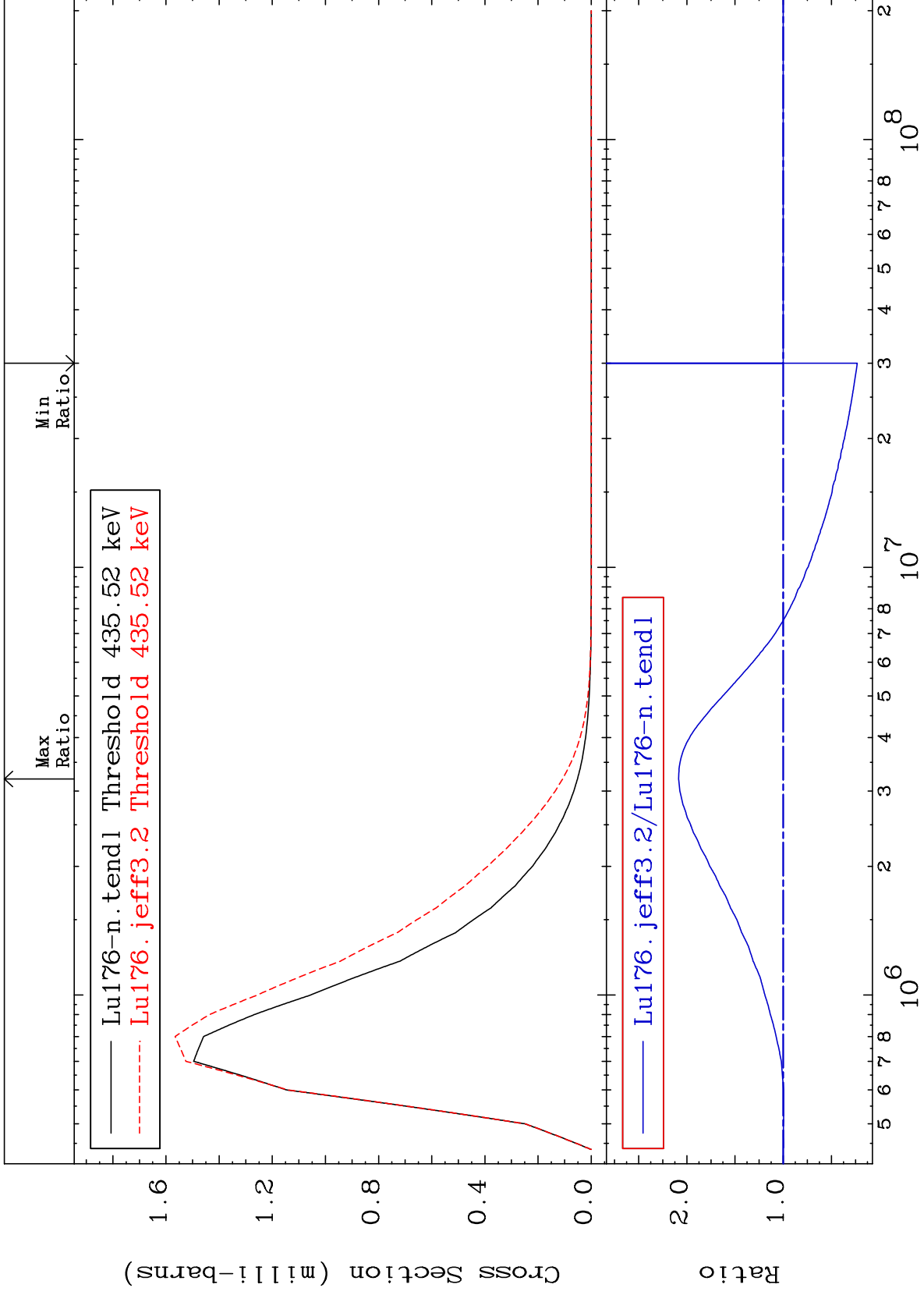
71-Lu-176
-10.72 To 98.14 %



MAT 7128

433.0 keV (n,n') Level
Cross Section

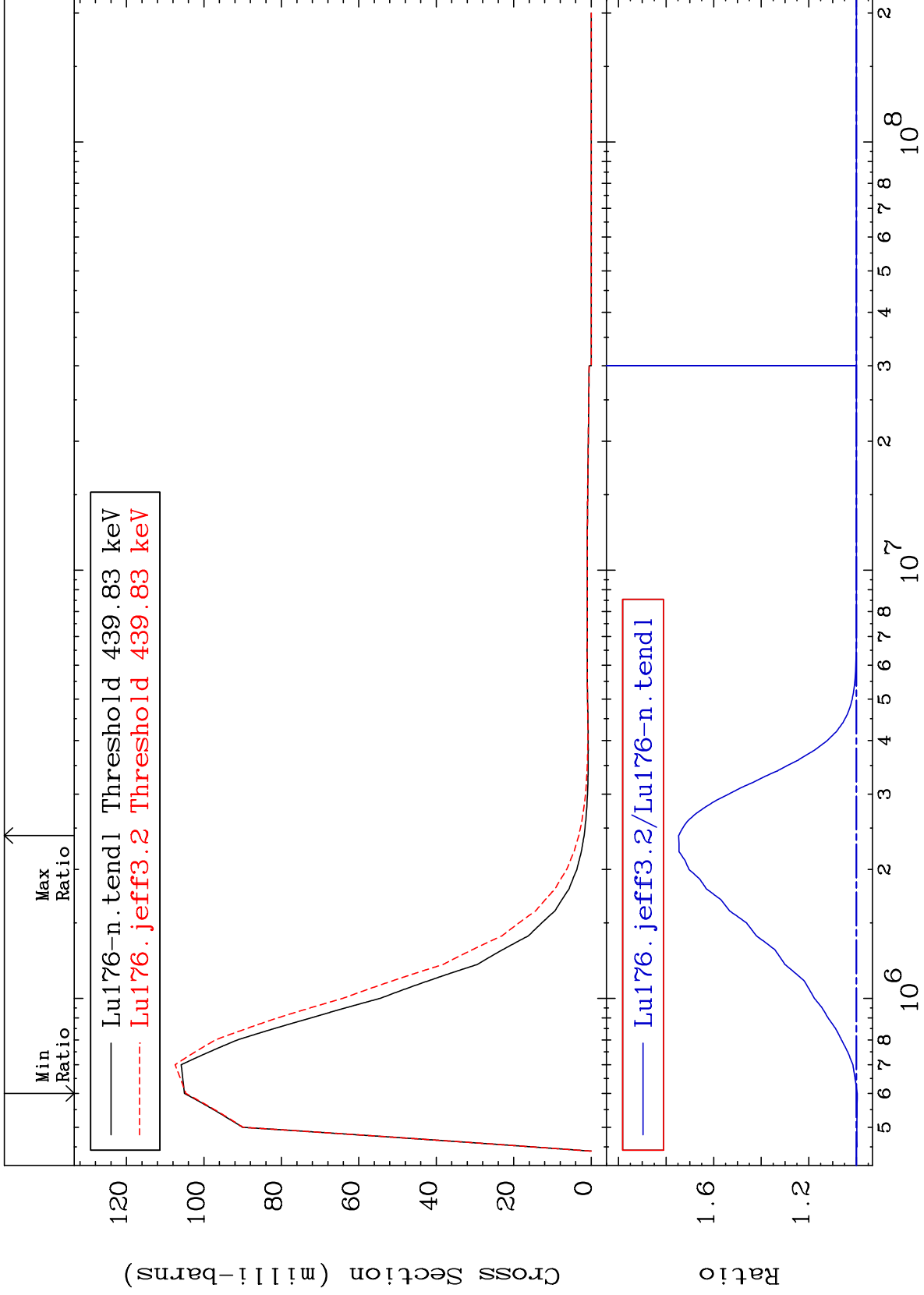
71-Lu-176
-76.83 To 108.5 %



MAT 7128

437.3 keV (n,n') Level
Cross Section

⁷¹Lu-¹⁷⁶
-0.355 To 74.72 %



35

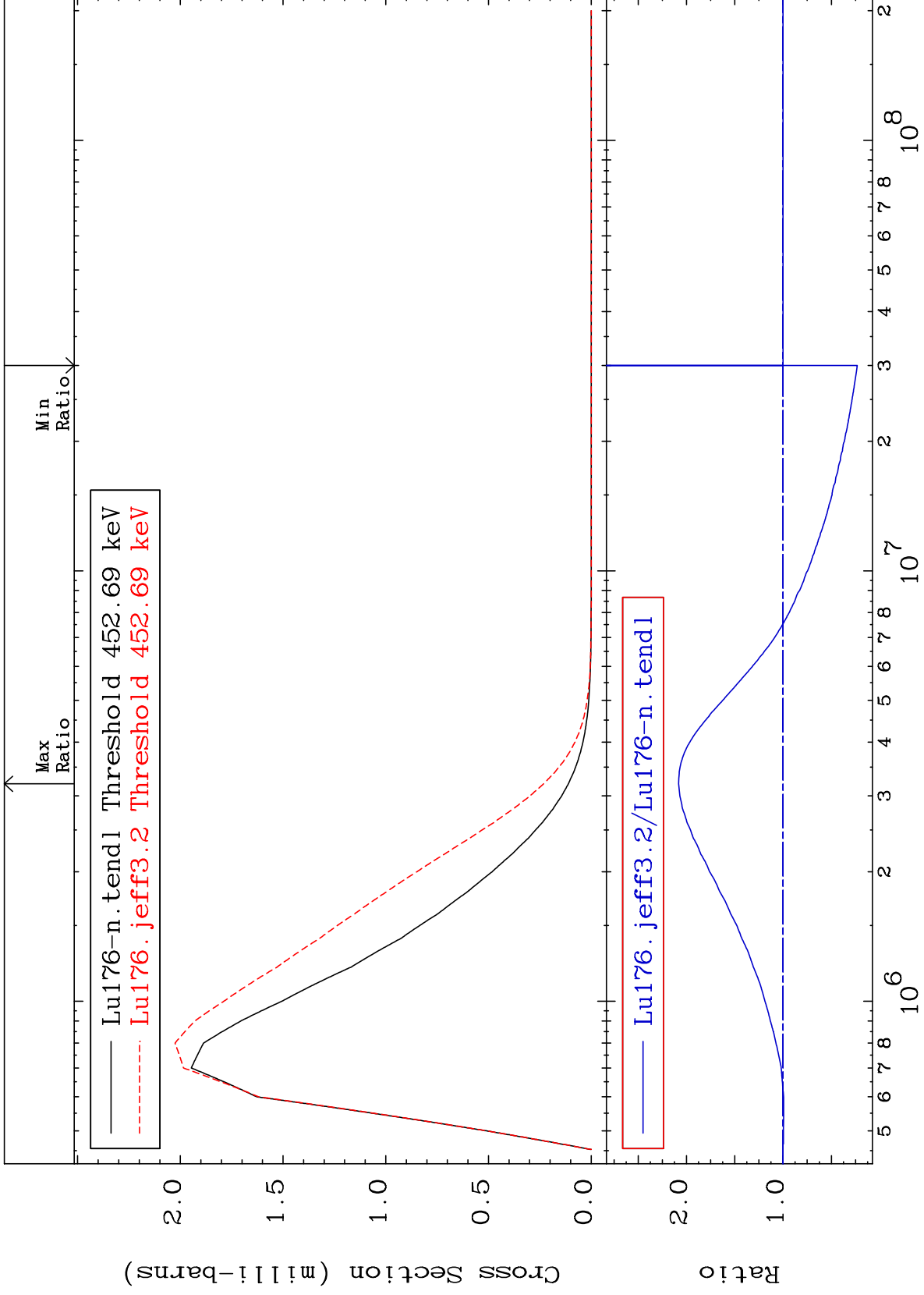
Incident Energy (eV)

⁷¹Lu-¹⁷⁶

MAT 7128

450.1 keV (n,n') Level
Cross Section

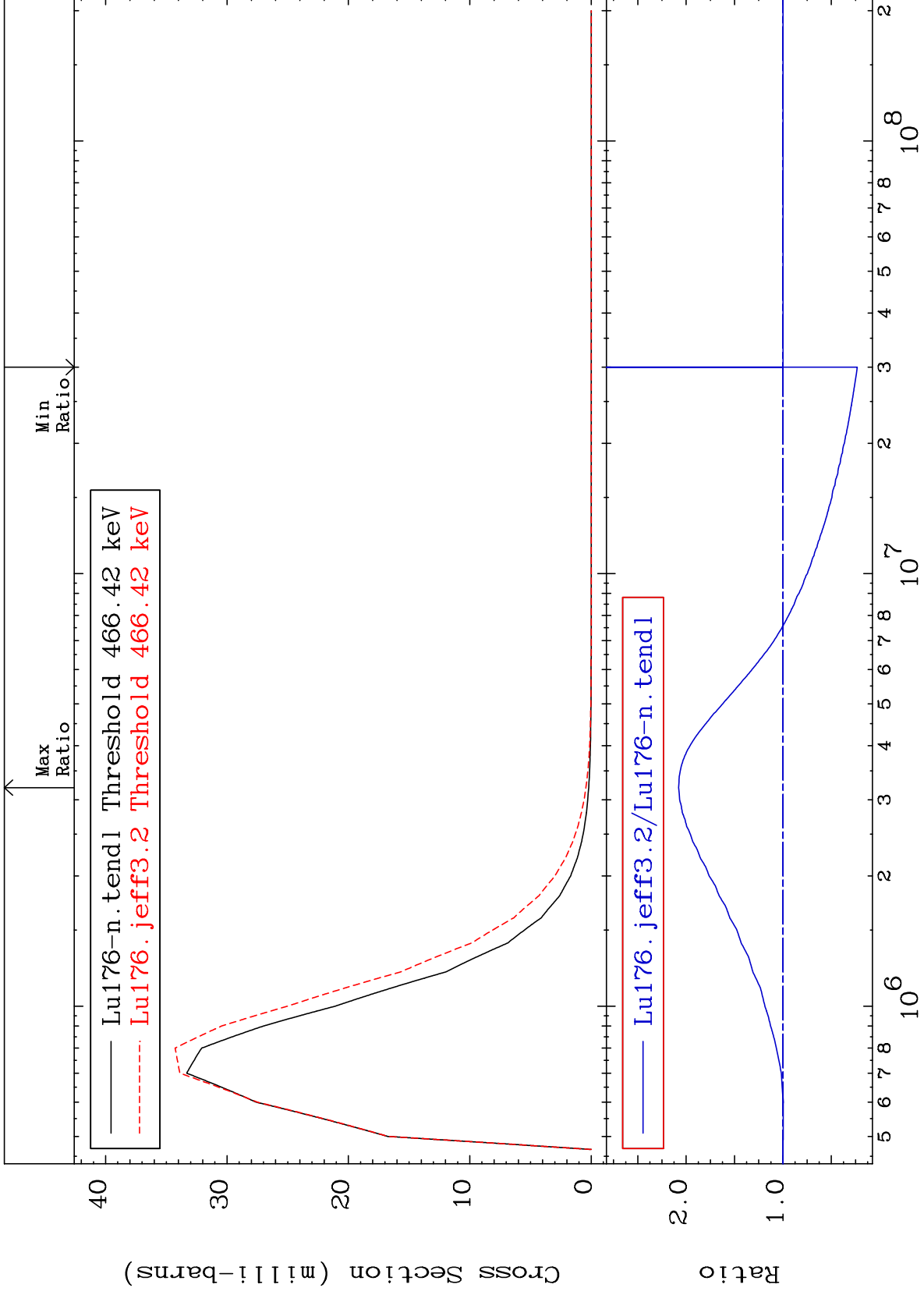
71-Lu-176
-76.81 To 108.2 %



MAT 7128

463.8 keV (n,n') Level
Cross Section

⁷¹Lu-¹⁷⁶
-76.78 To 107.8 %



37

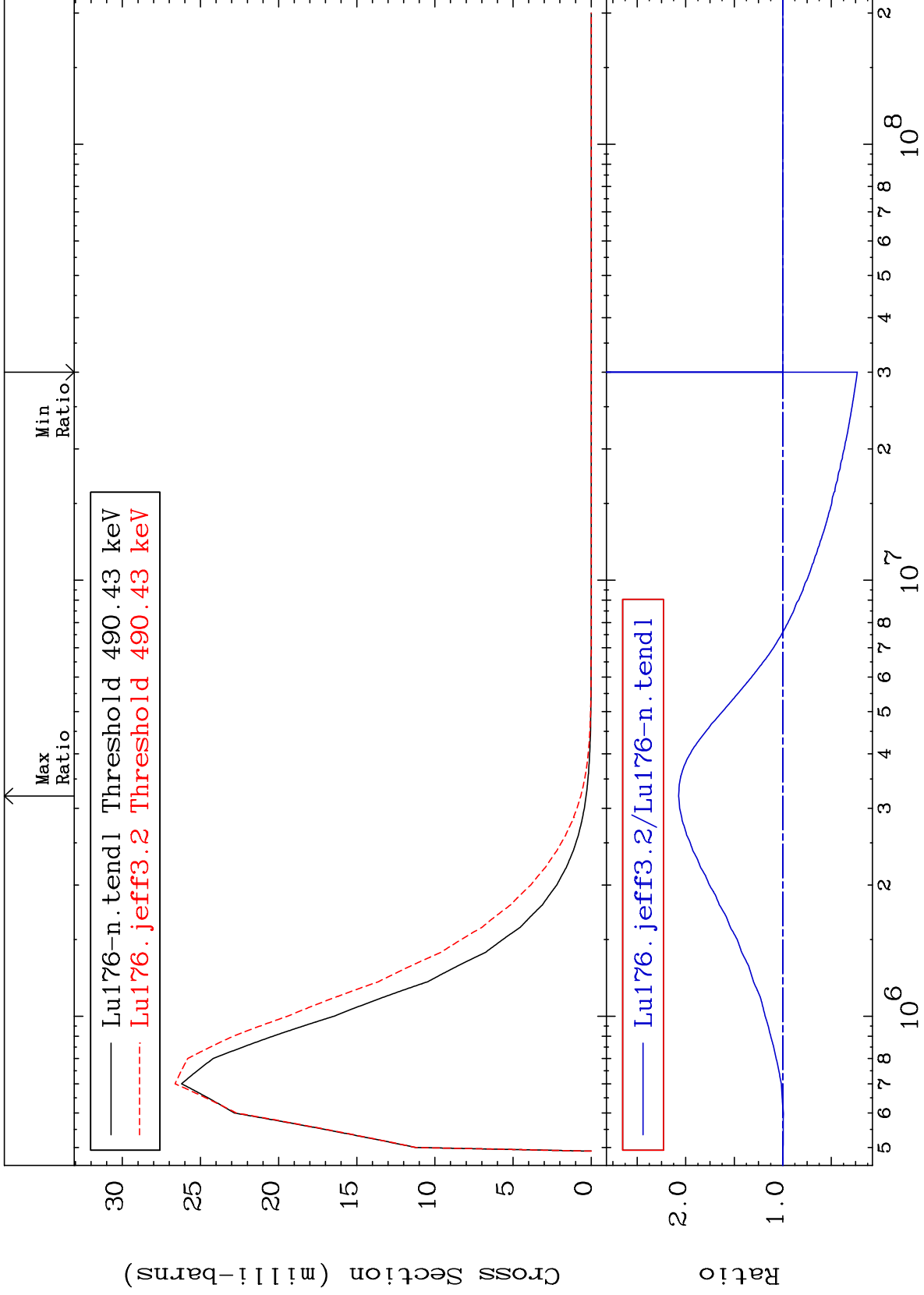
Incident Energy (eV)

⁷¹Lu-¹⁷⁶

MAT 7128

487.6 keV (n,n') Level
Cross Section

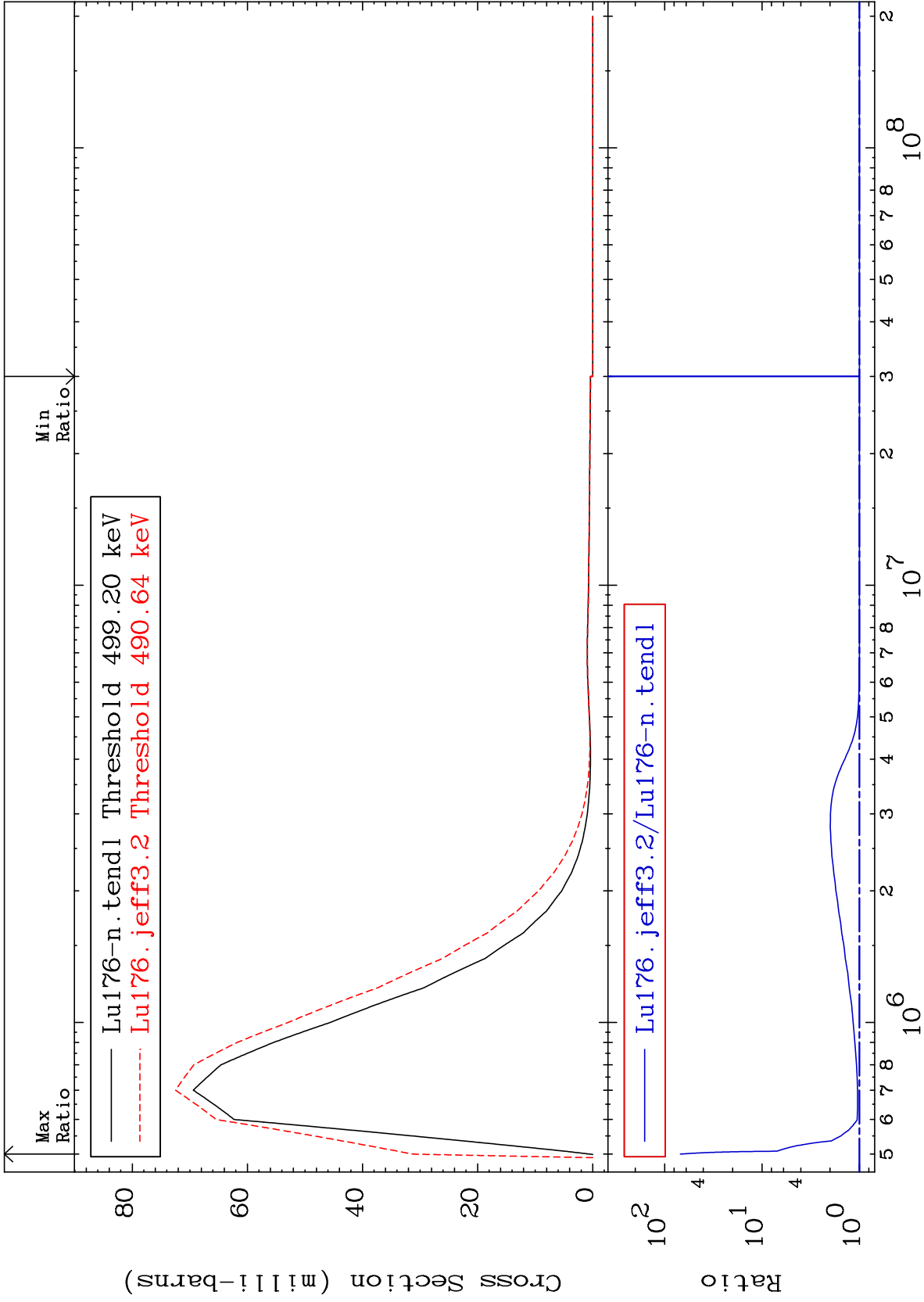
71-Lu-176
-76.74 To 107.3 %



MAT 7128

496.4 keV (n,n') Level
Cross Section

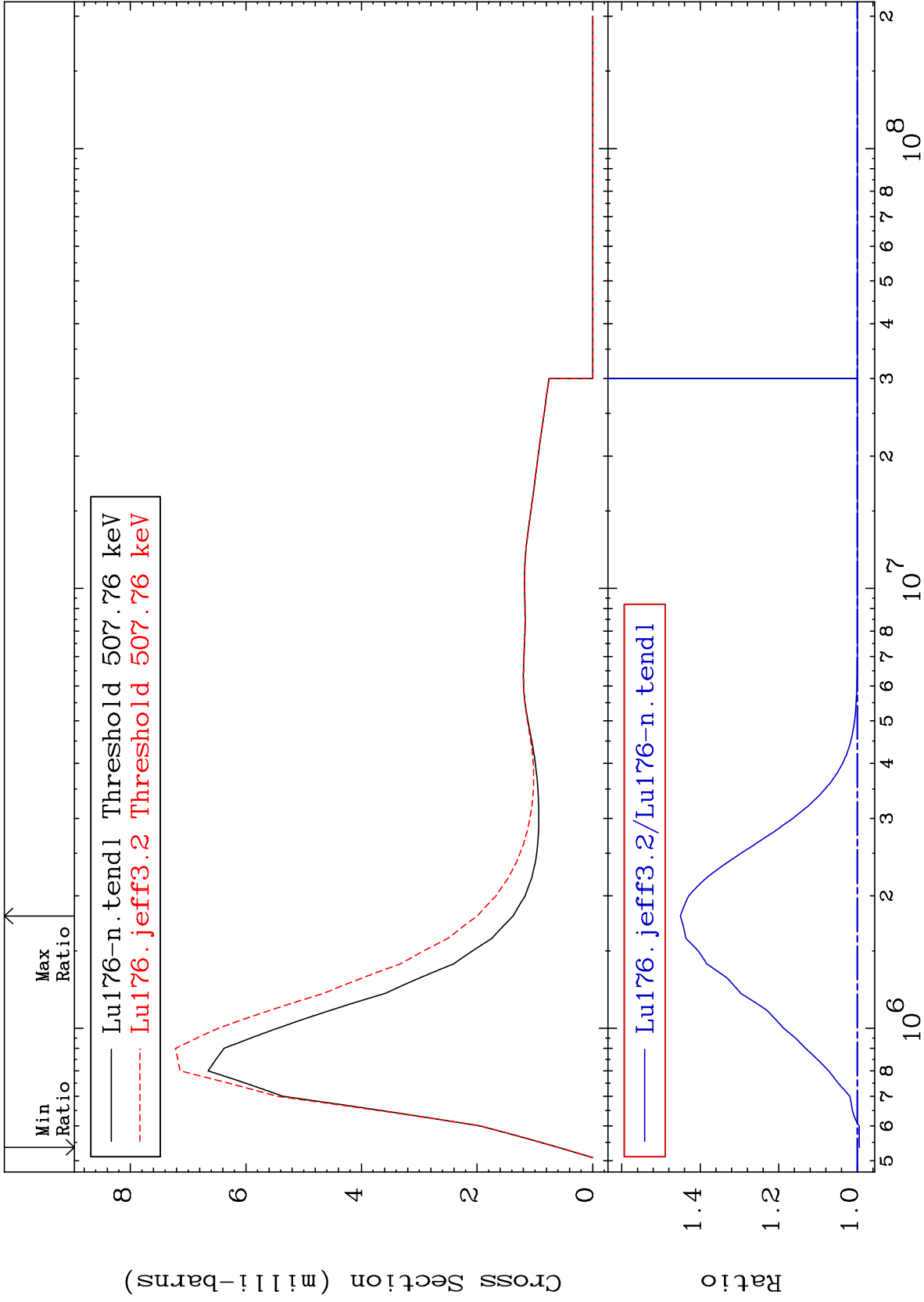
71-Lu-176
0.000 To 6786. %



MAT 7128

504.9 keV (n,n') Level
Cross Section

71-Lu-176
-0.550 To 45.07 %



40

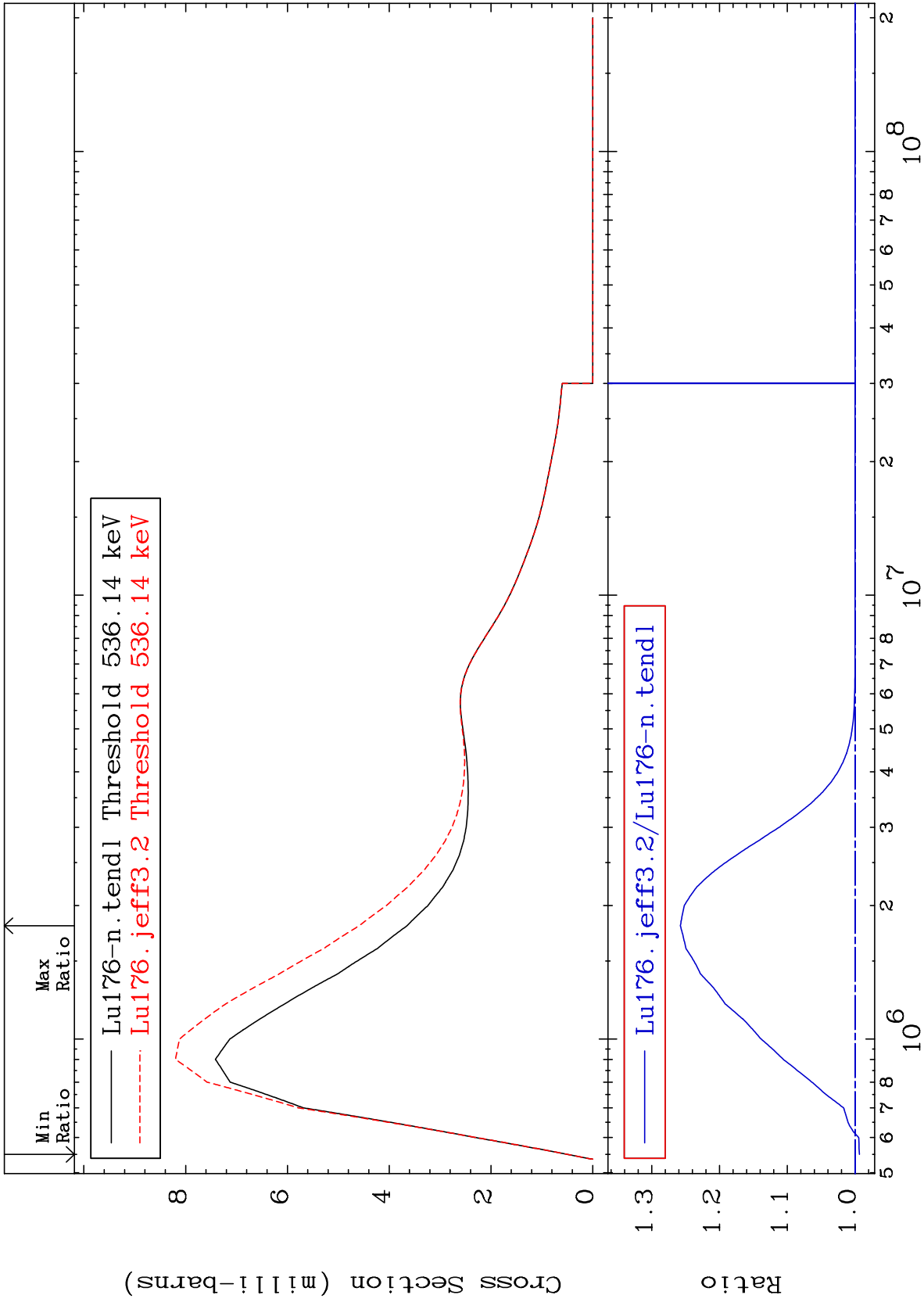
Incident Energy (eV)

71-Lu-176

MAT 7128

533.1 keV (n,n') Level
Cross Section

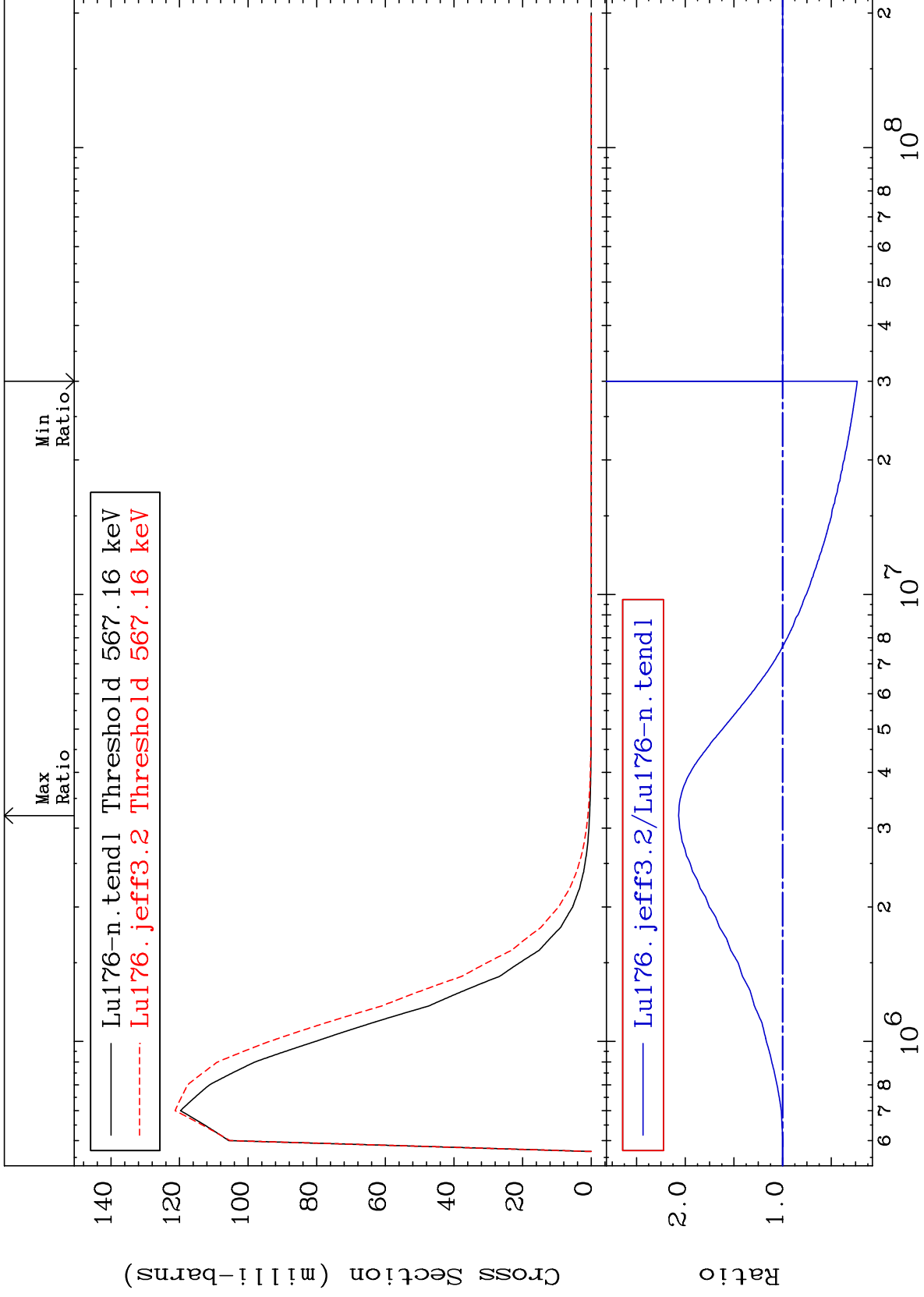
⁷¹Lu-¹⁷⁶
-0.641 To 25.78 %



MAT 7128

563.9 keV (n,n') Level
Cross Section

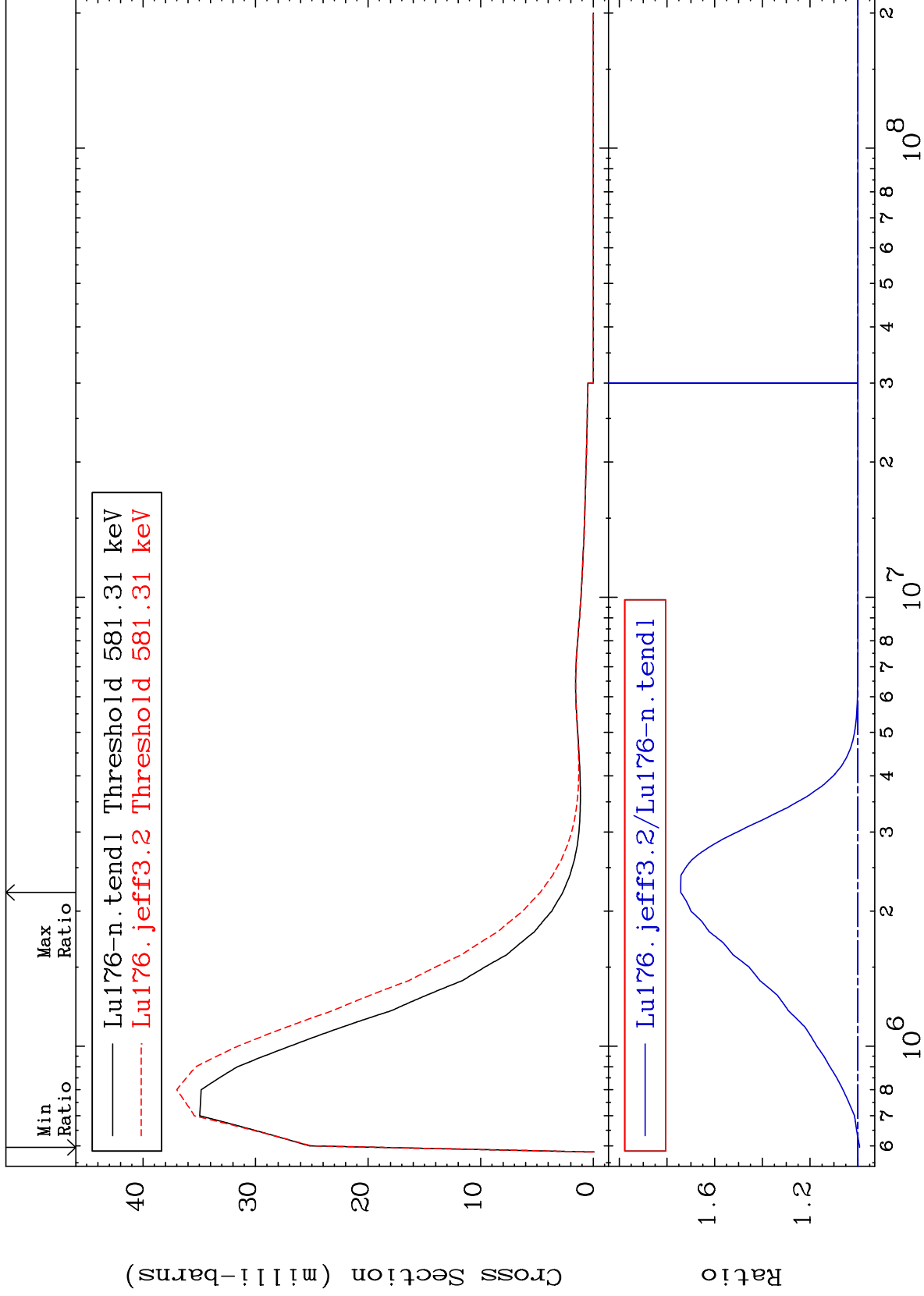
71-Lu-176
-76.70 To 106.8 %



MAT 7128

578.0 keV (n,n') Level
Cross Section

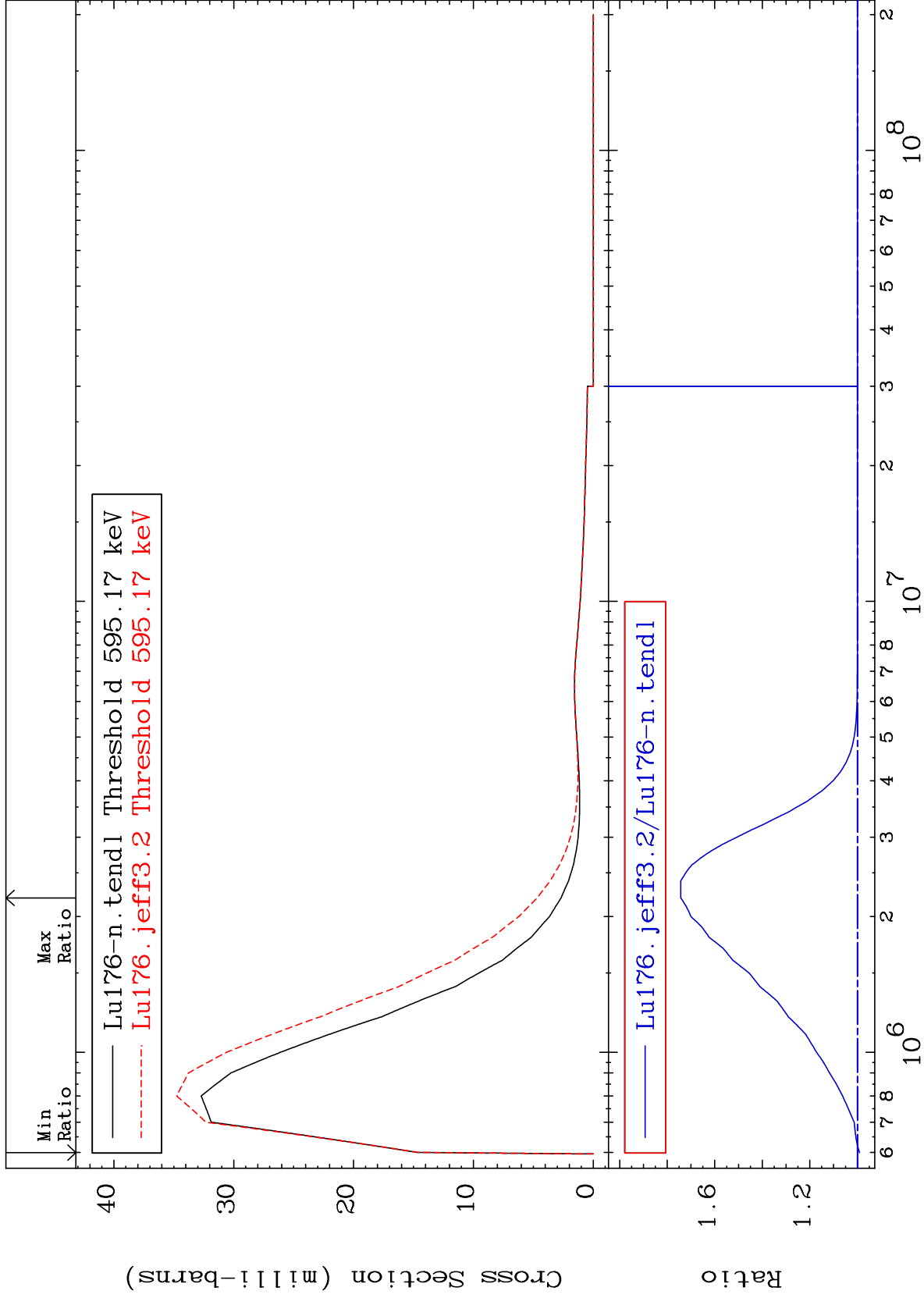
71-Lu-176
-0.741 To 74.23 %



MAT 7128

591.8 keV (n,n') Level
Cross Section

71-Lu-176
-0.904 To 74.29 %



44

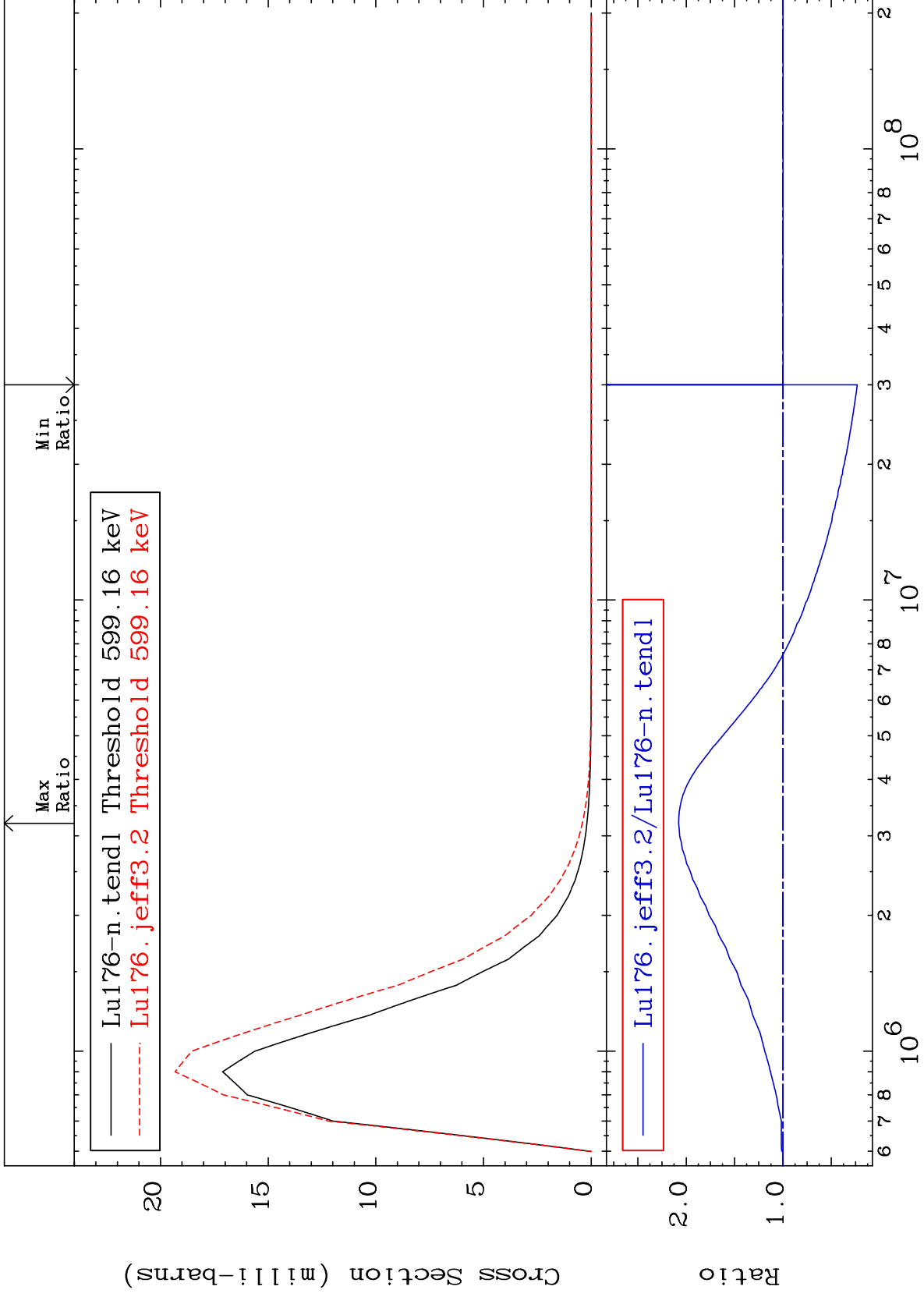
Incident Energy (eV)

71-Lu-176

MAT 7128

595.7 keV (n,n') Level
Cross Section

71-Lu-176
-76.78 To 107.8 %



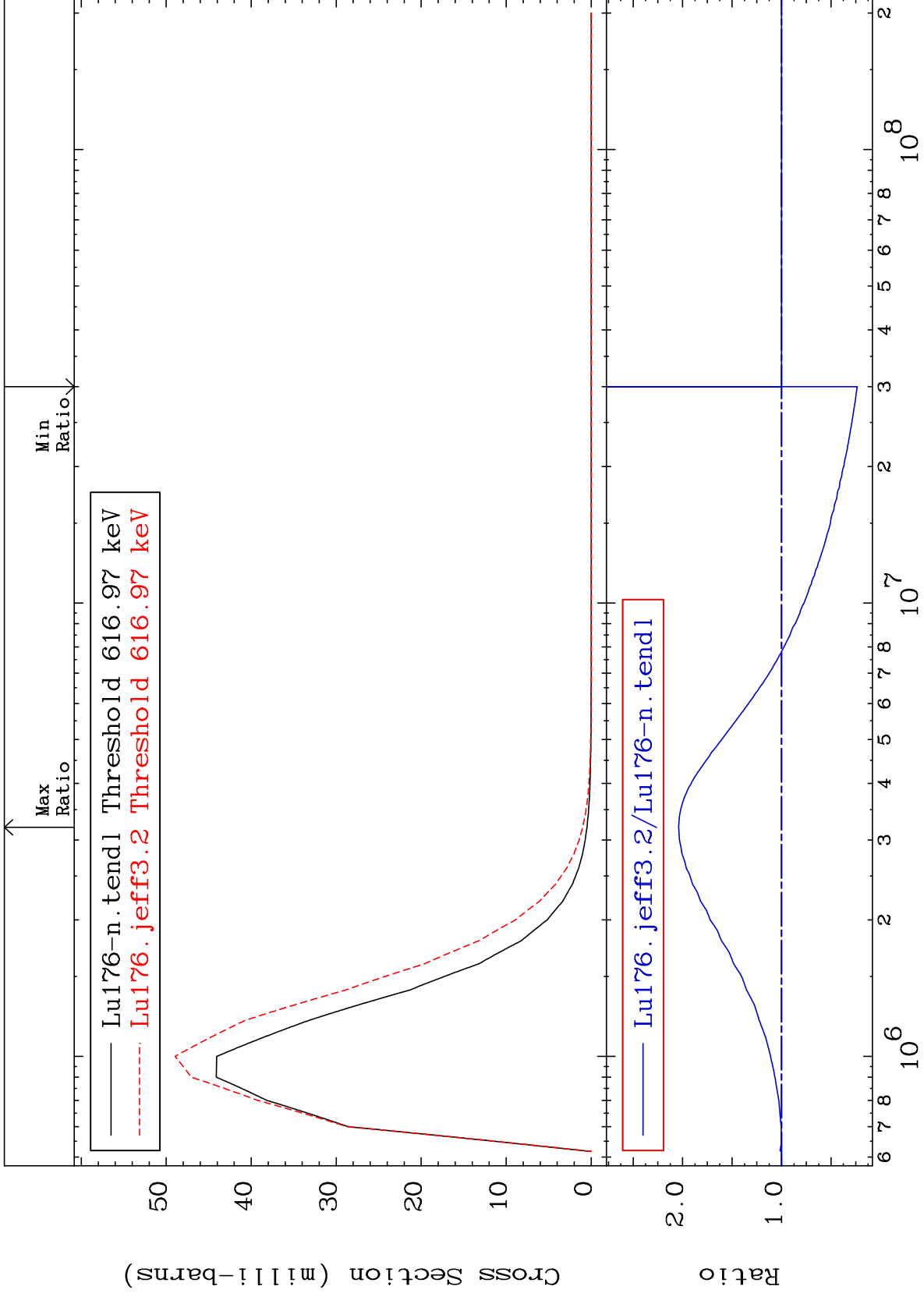
45

71-Lu-176

MAT 7128

613.4 keV (n,n') Level
Cross Section

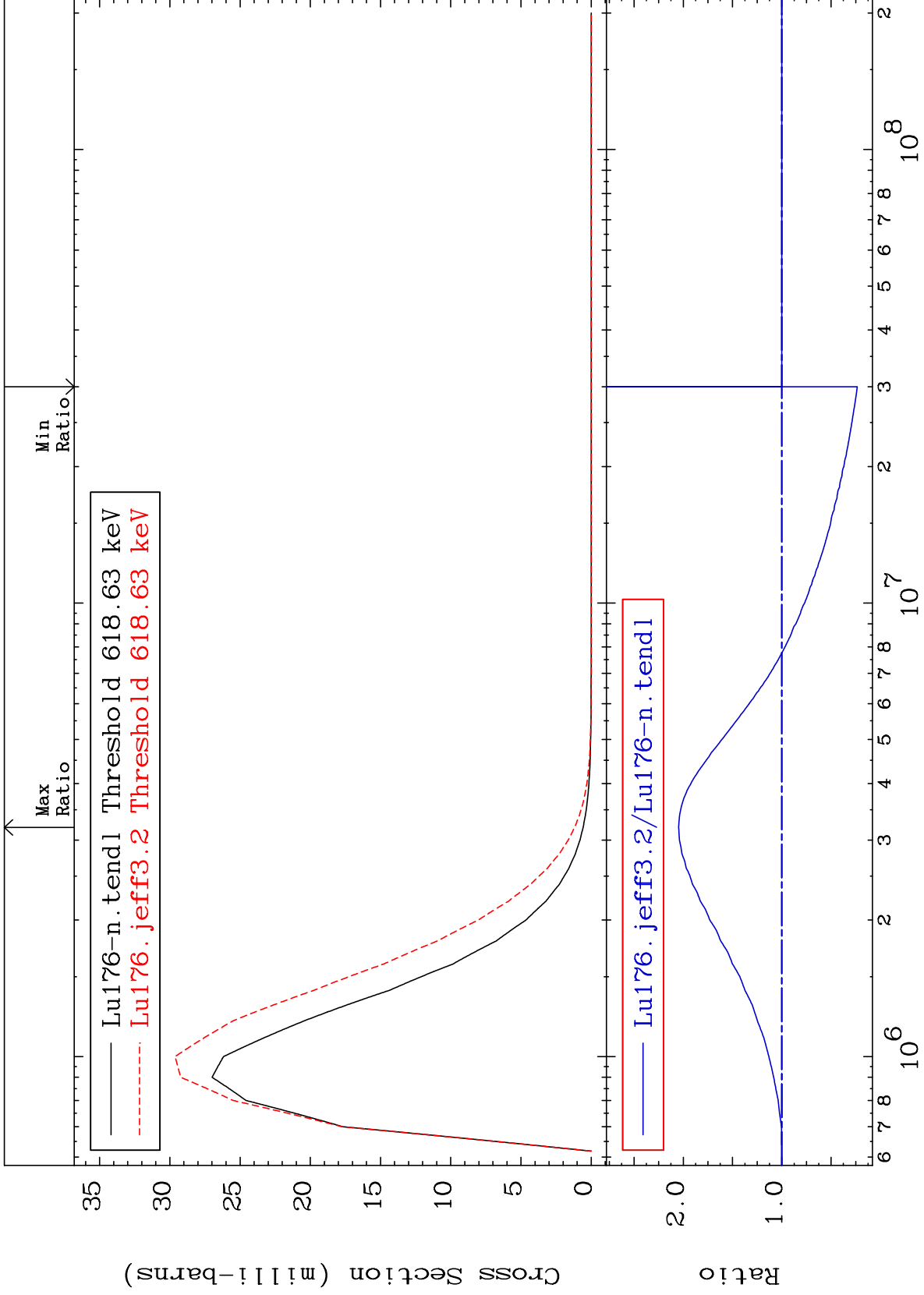
71-Lu-176
-76.50 To 104.0 %



MAT 7128

615.1 keV (n,n') Level
Cross Section

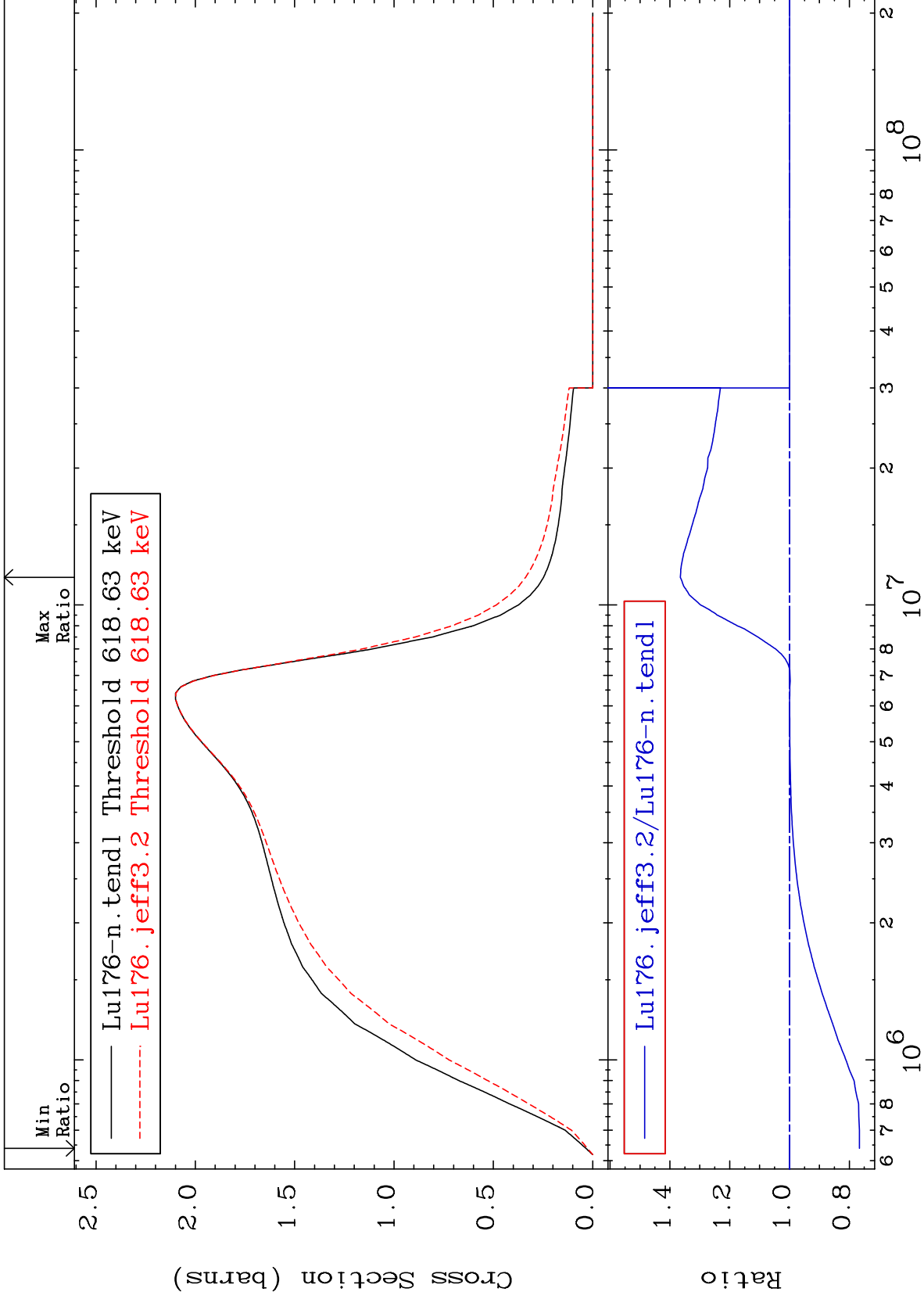
71-Lu-176
-76.55 To 104.7 %



47

Incident Energy (eV)

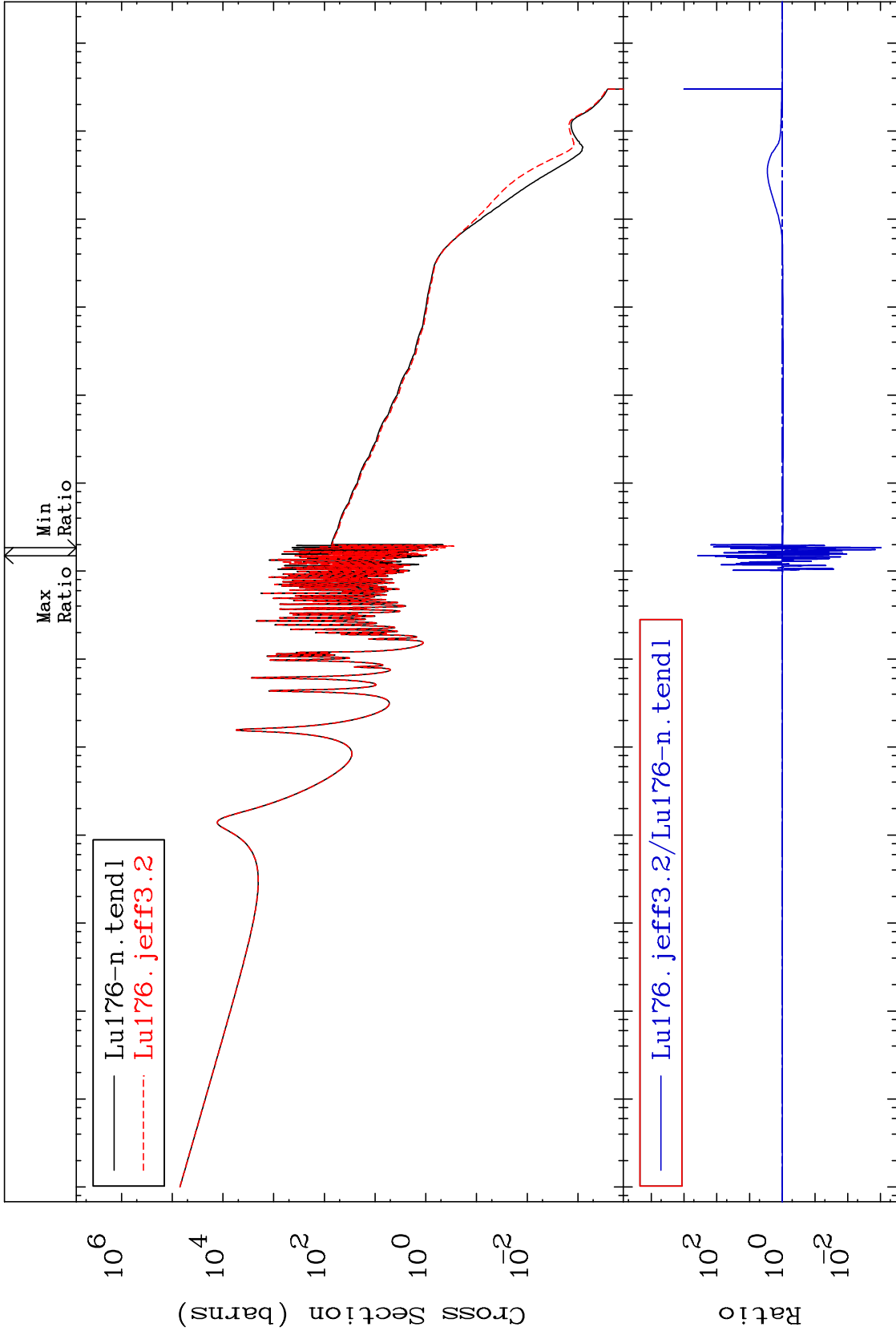
71-Lu-176



MAT 7128

(n, γ)
Cross Section

71-Lu-176
-99.90 To 9999. %



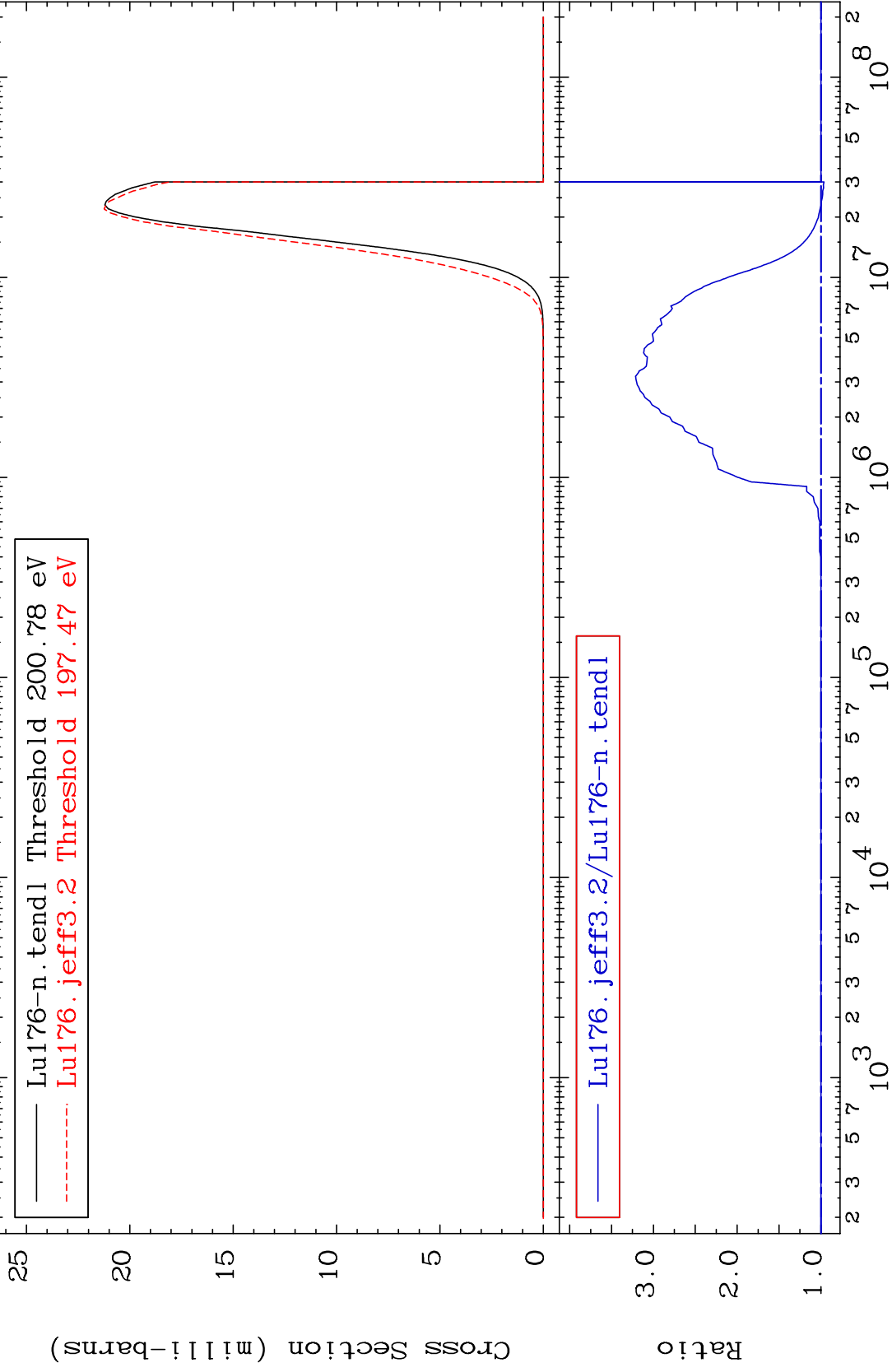
MAT 7128

(n,p)

Cross Section

71-Lu-176

-3.748 To 221.4 %



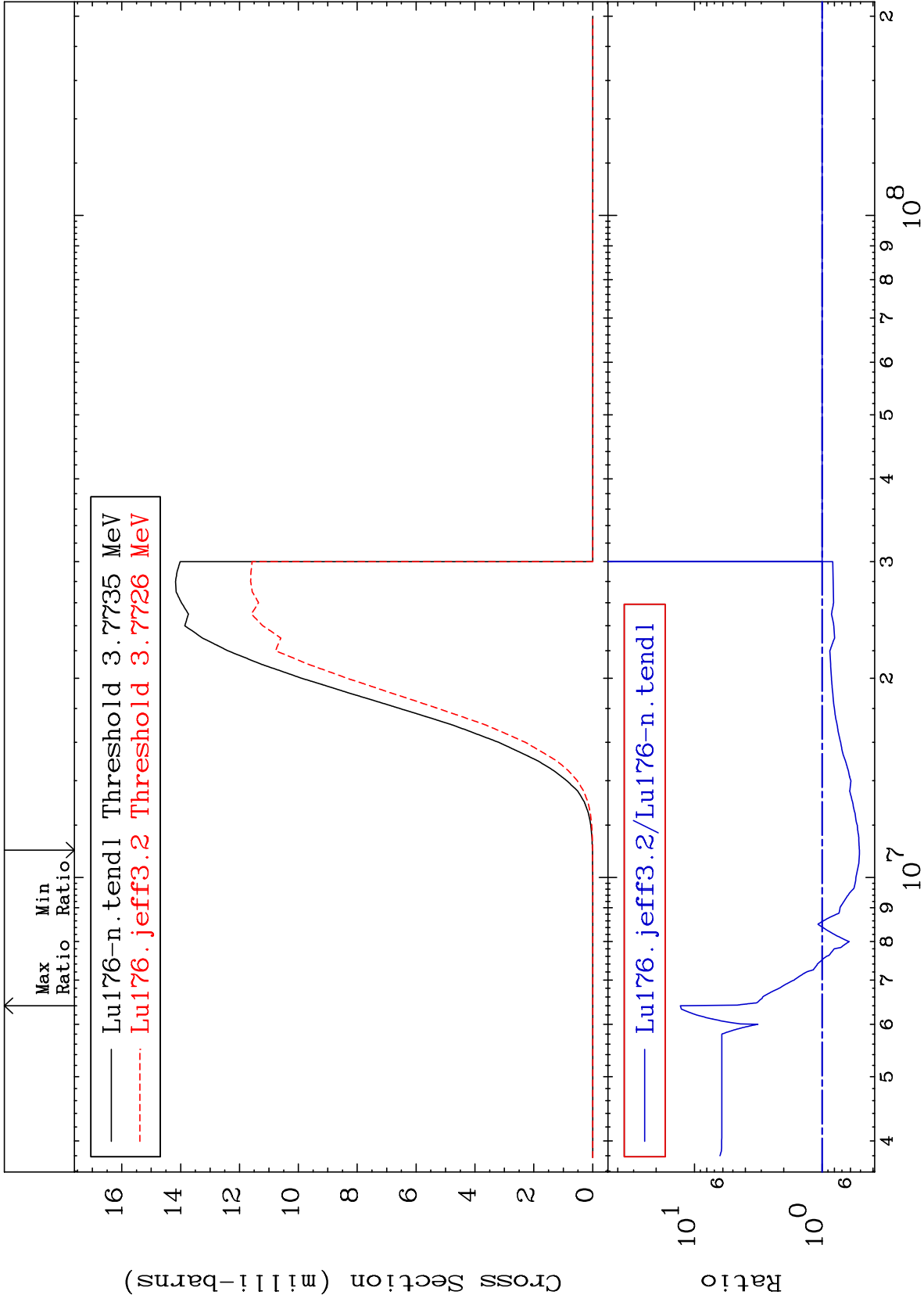
MAT 7128

(n, d)

⁷¹Lu-¹⁷⁶

Cross Section

-49.01 To 1191. %



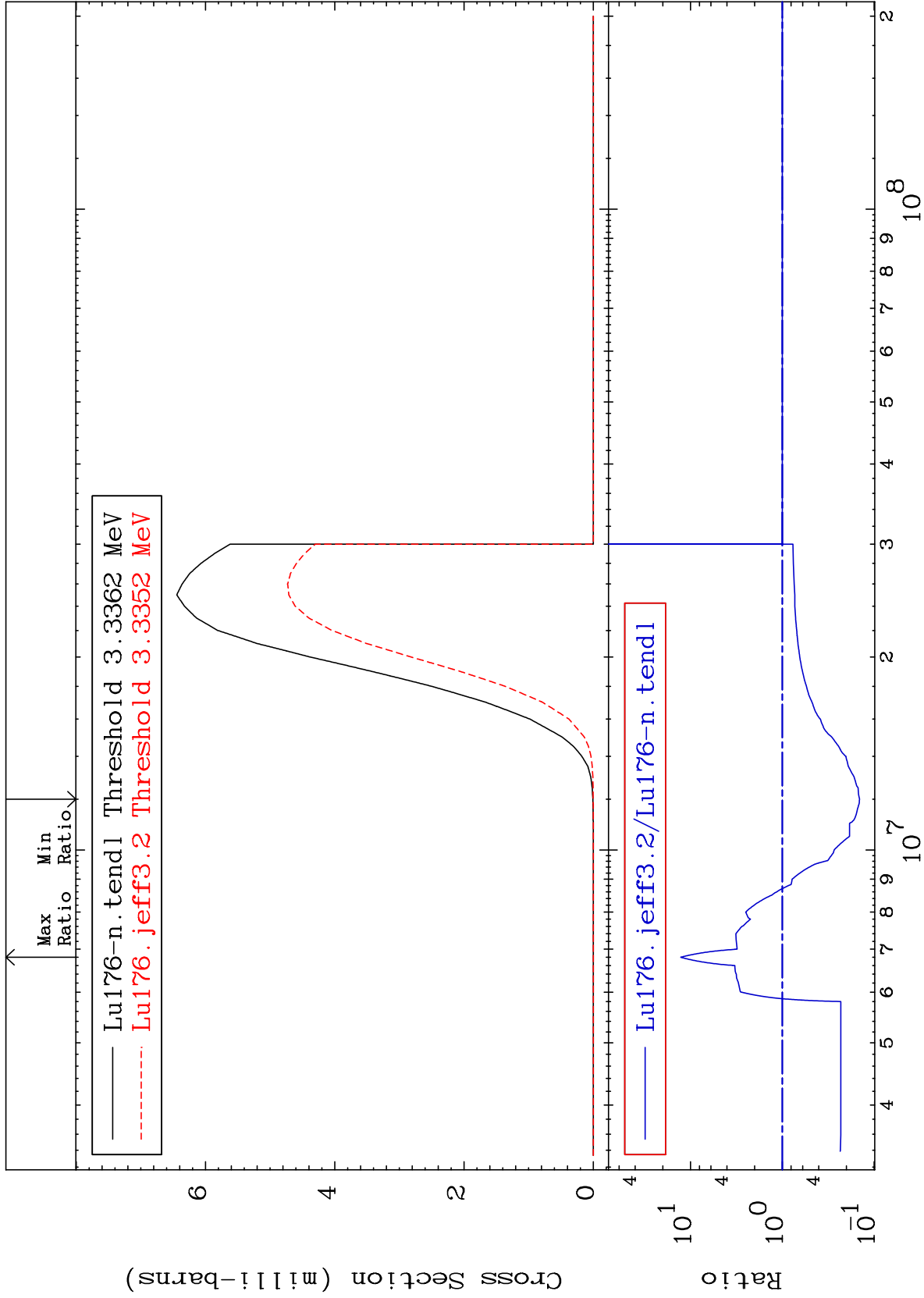
MAT 7128

(n, t)

⁷¹-Lu-176

Cross Section

-85.62 To 1175. %



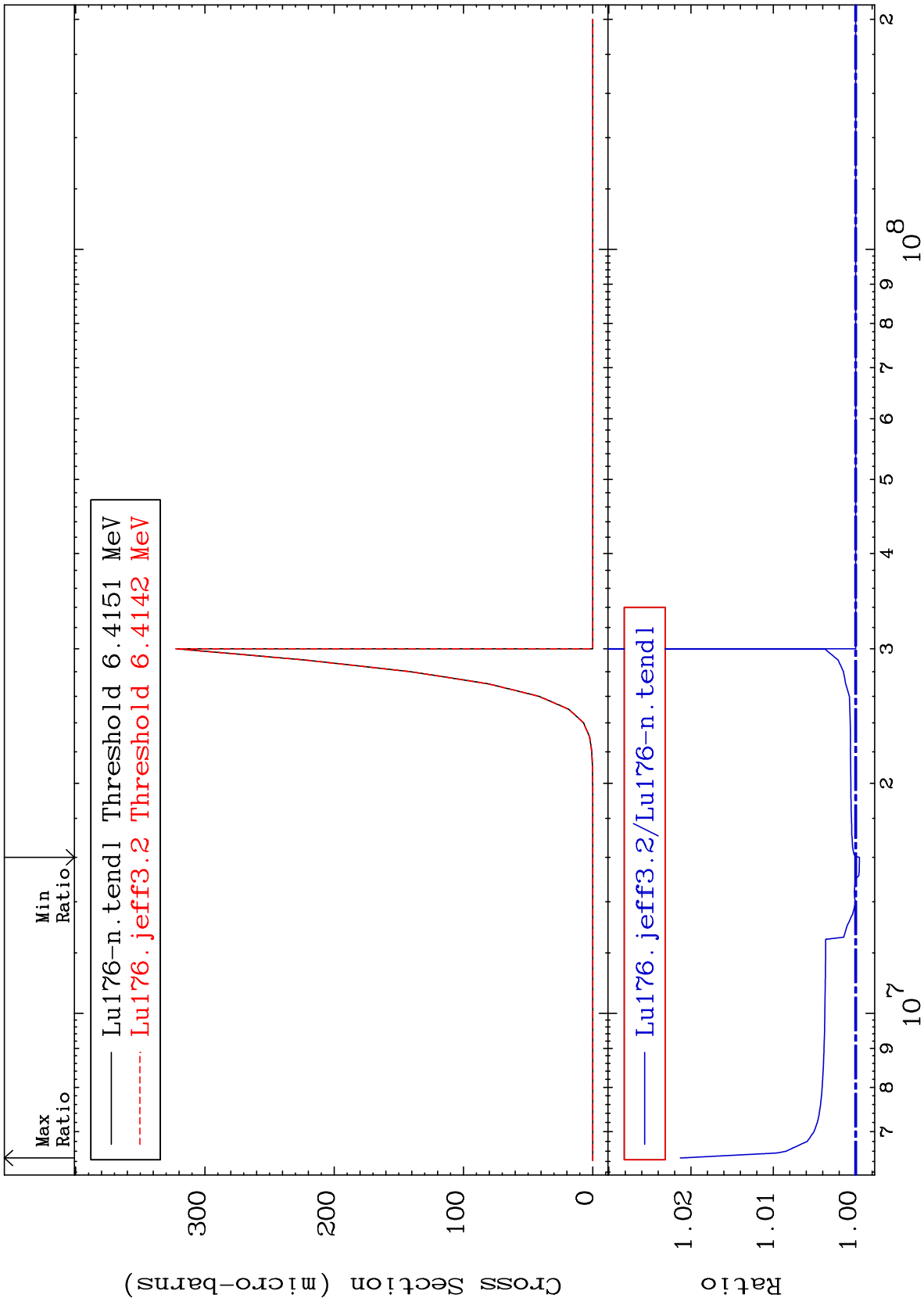
MAT 7128

(n, He-3)

⁷¹Lu-176

Cross Section

-0.046 To 2.130 %



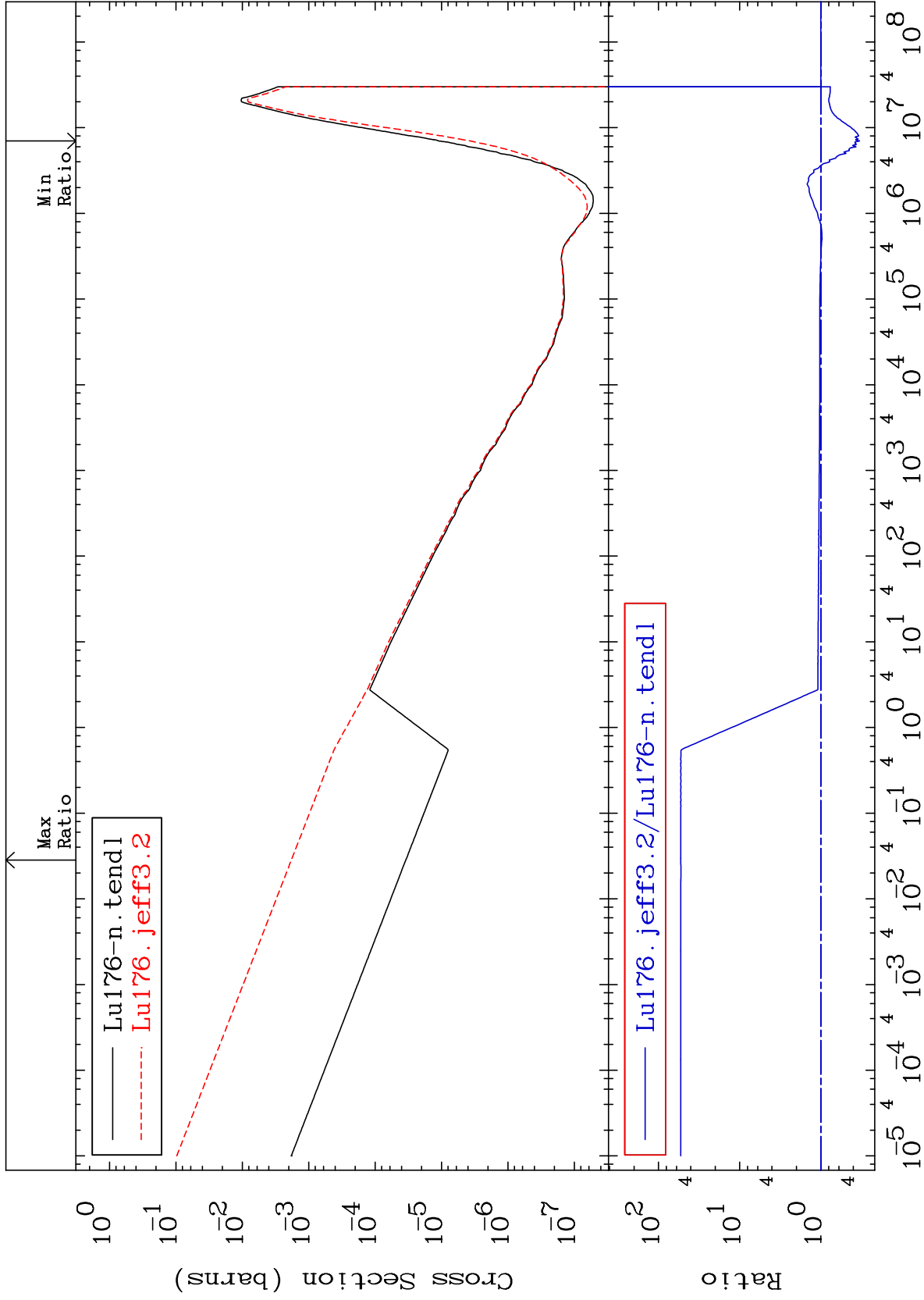
MAT 7128

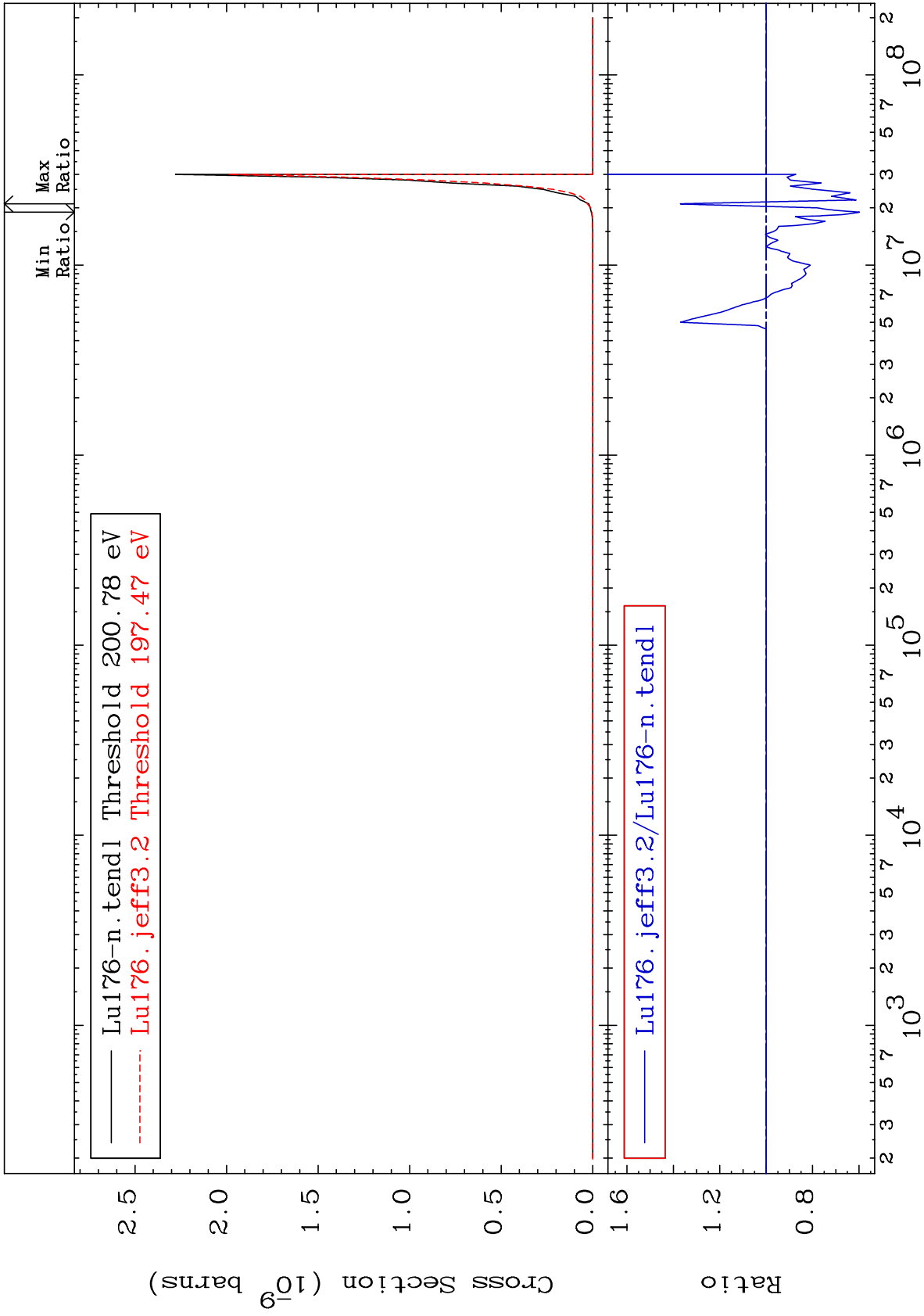
(n, α)

Cross Section

⁷¹Lu-176

-66.58 To 5213. %

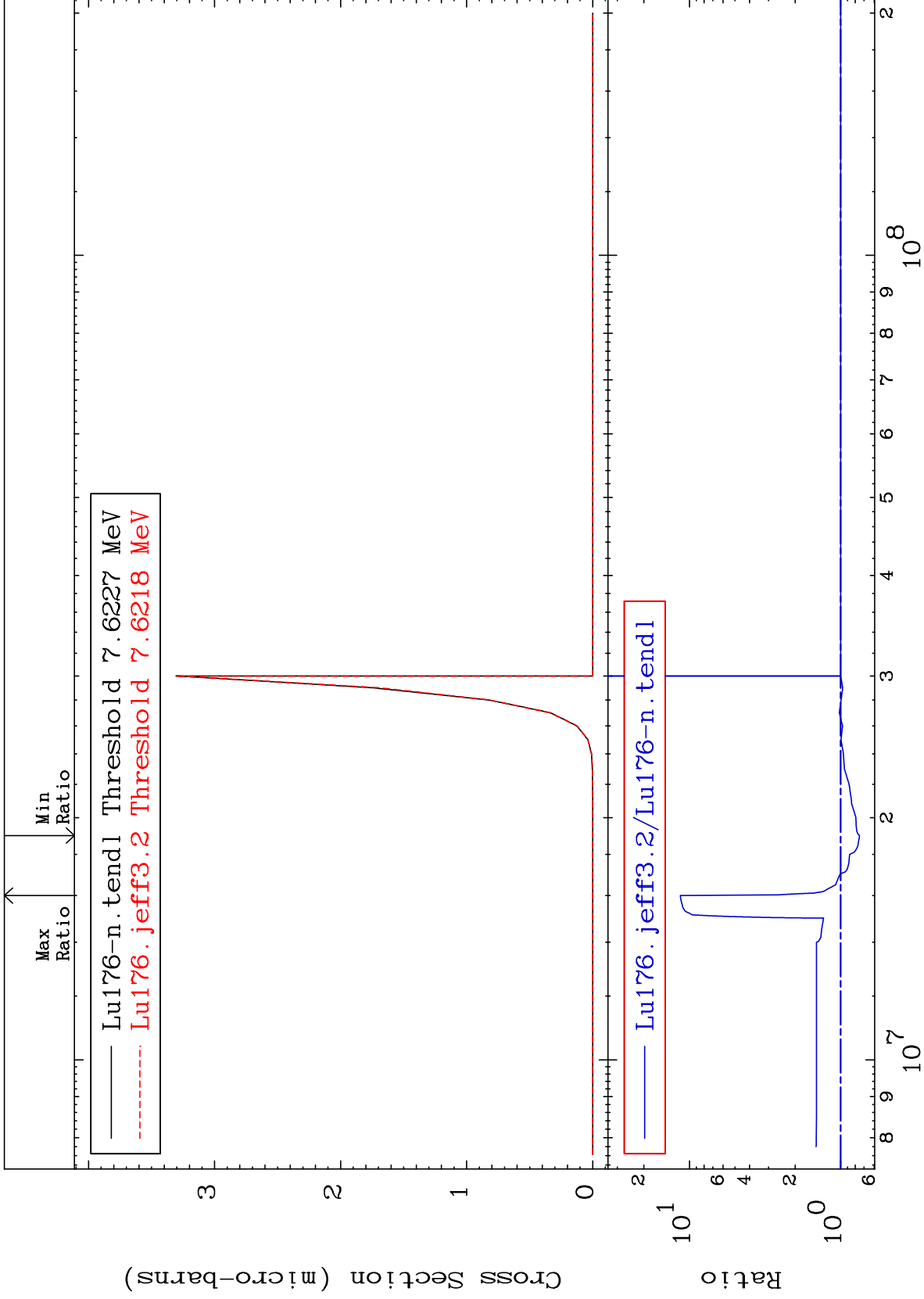




MAT 7128

(n,2p)
Cross Section

⁷¹Lu-¹⁷⁶
-24.84 To 1048. %



56

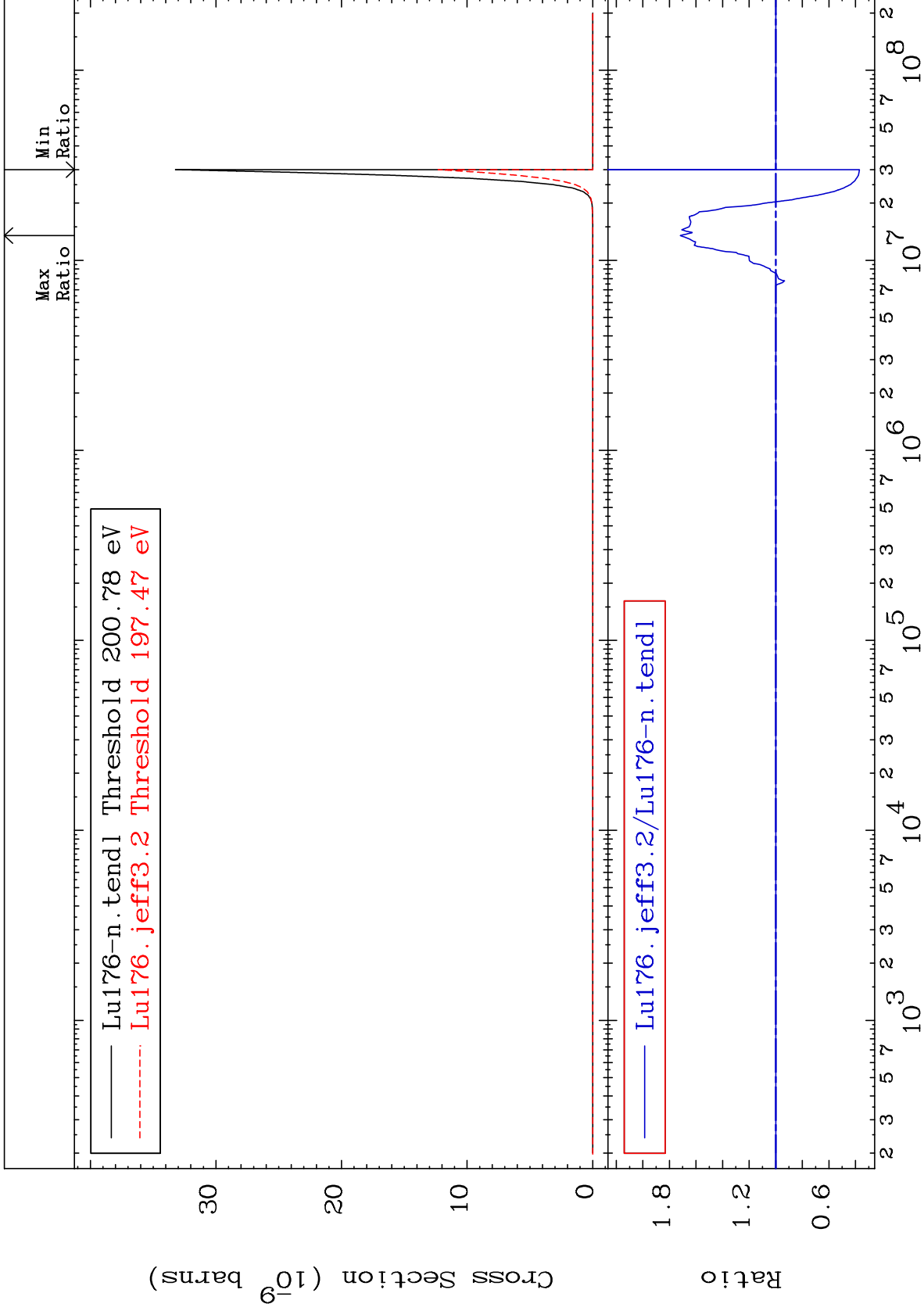
Incident Energy (eV)

⁷¹Lu-¹⁷⁶

MAT 7128

(n, p) α
Cross Section

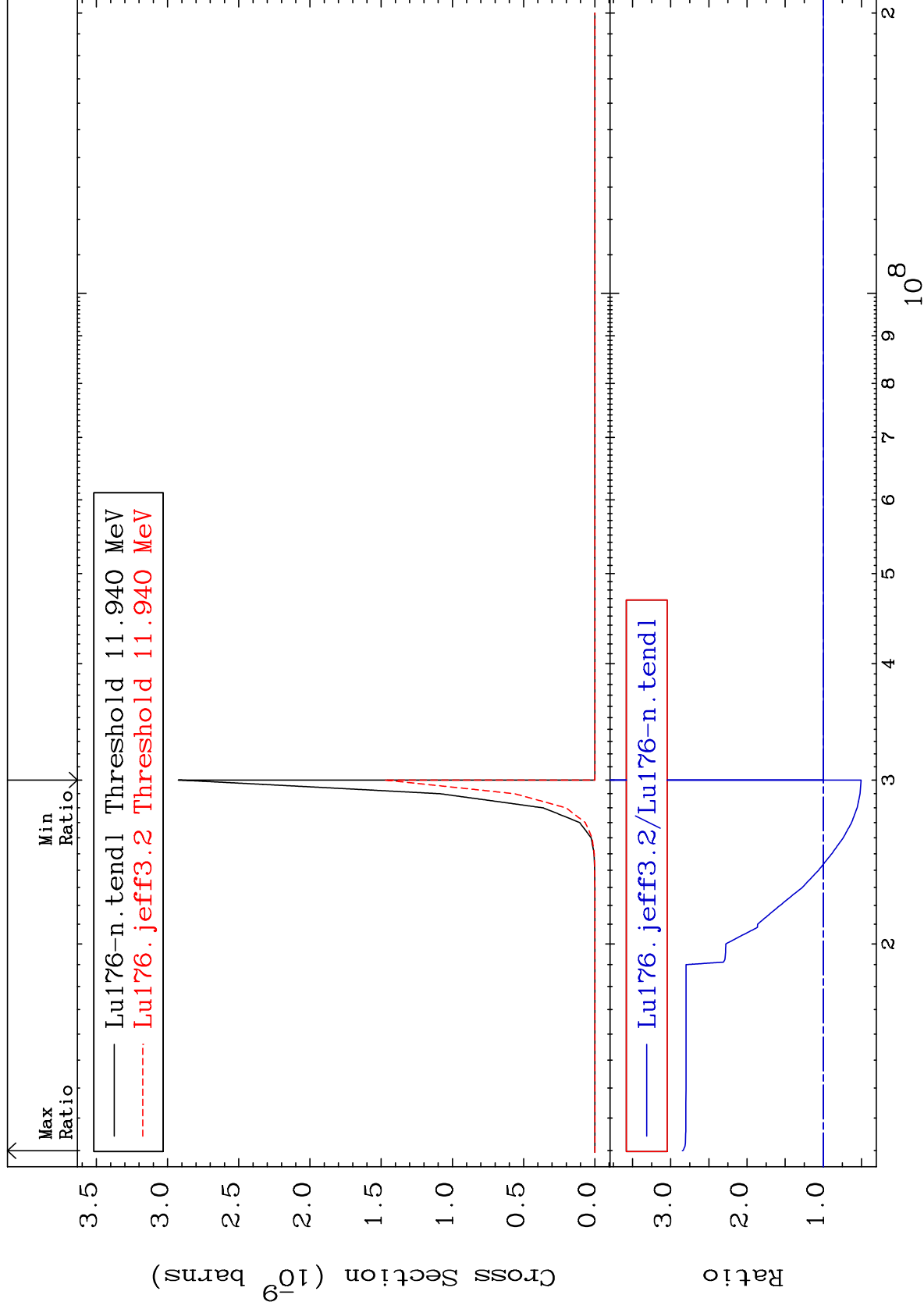
71-Lu-176
-62.99 To 71.77 %



MAT 7128

(n,p) d
Cross Section

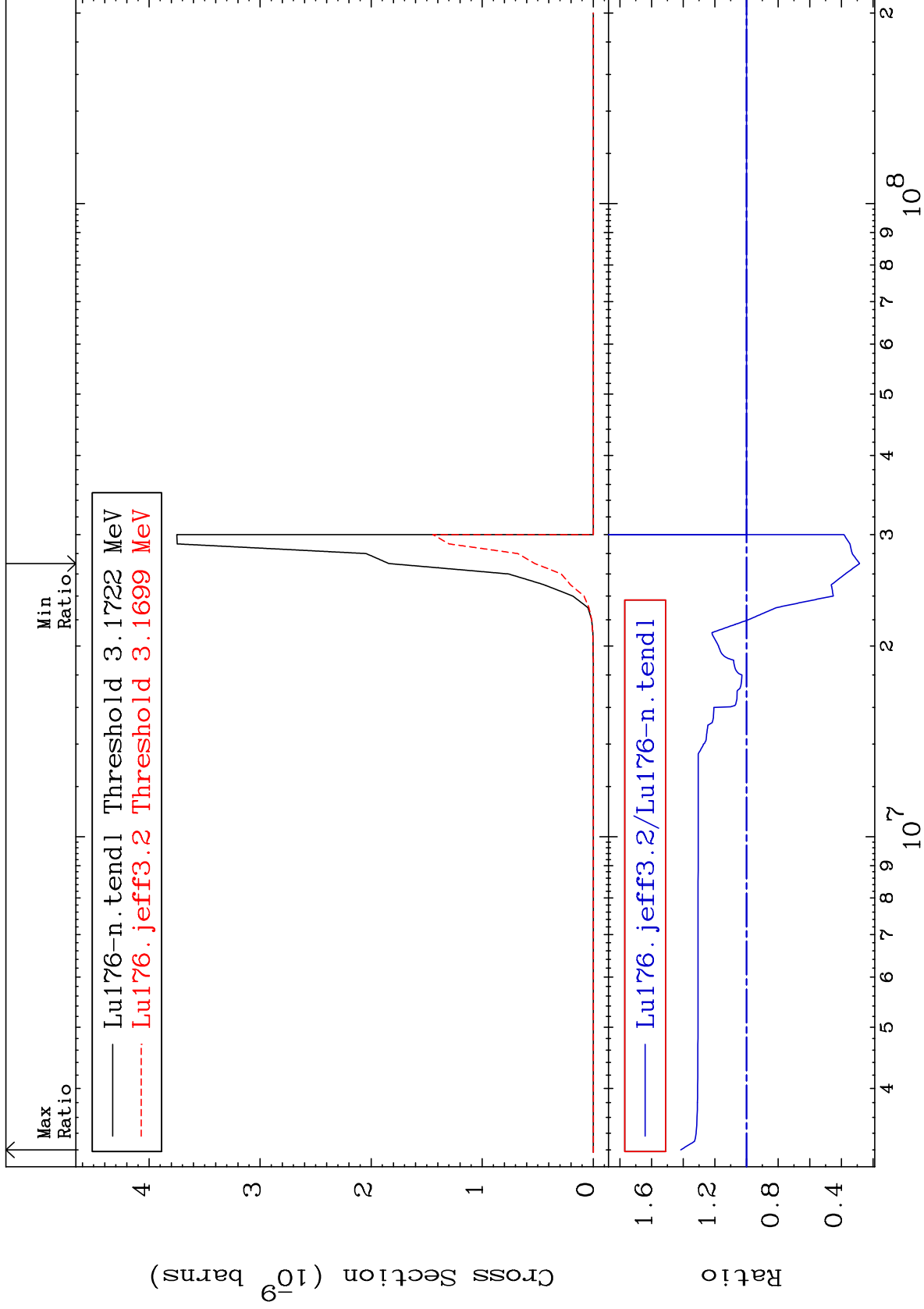
⁷¹Lu-¹⁷⁶
-49.44 To 184.8 %

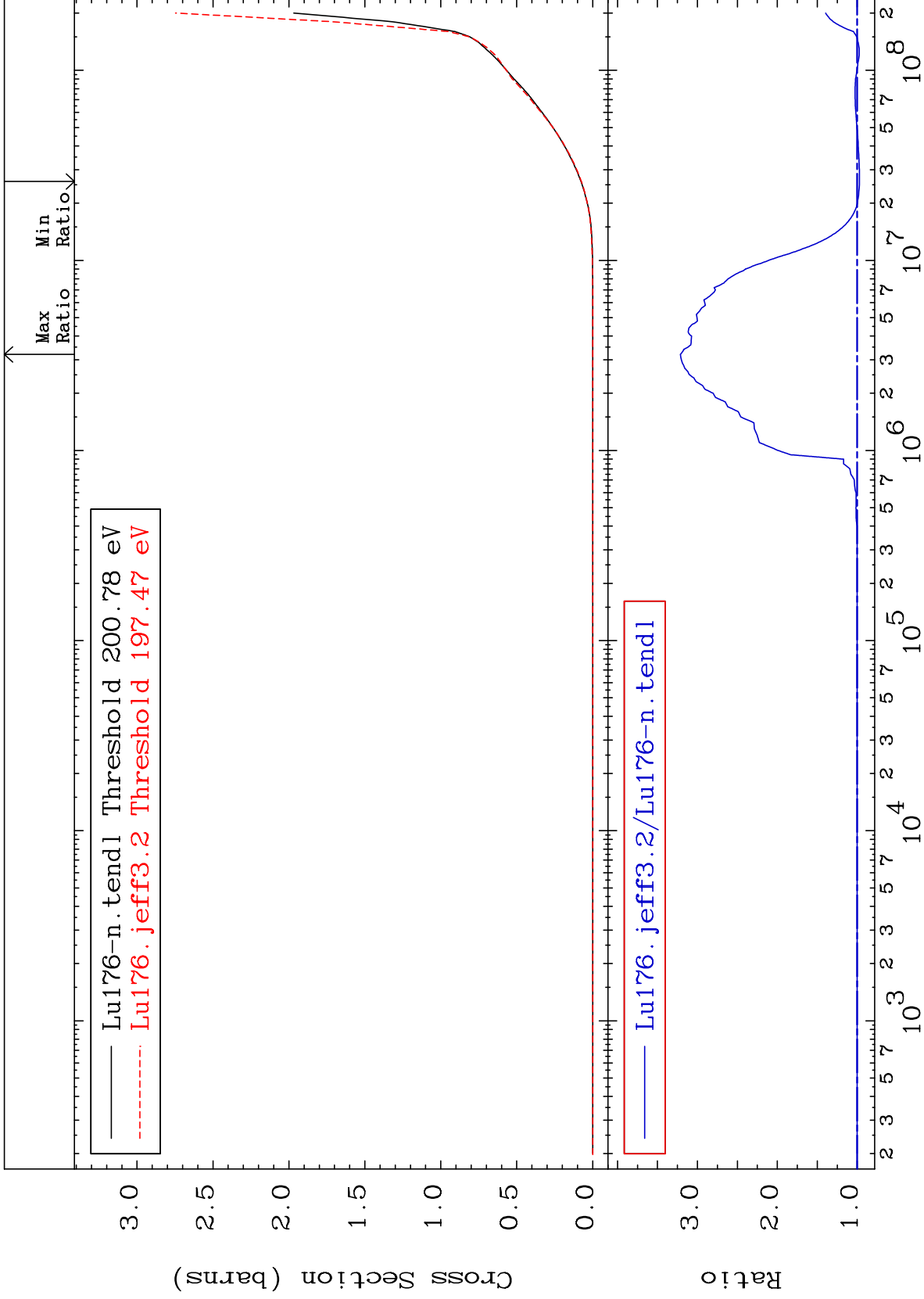


MAT 7128

(n, d) α
Cross Section

71-Lu-176
-71.41 To 41.54 %

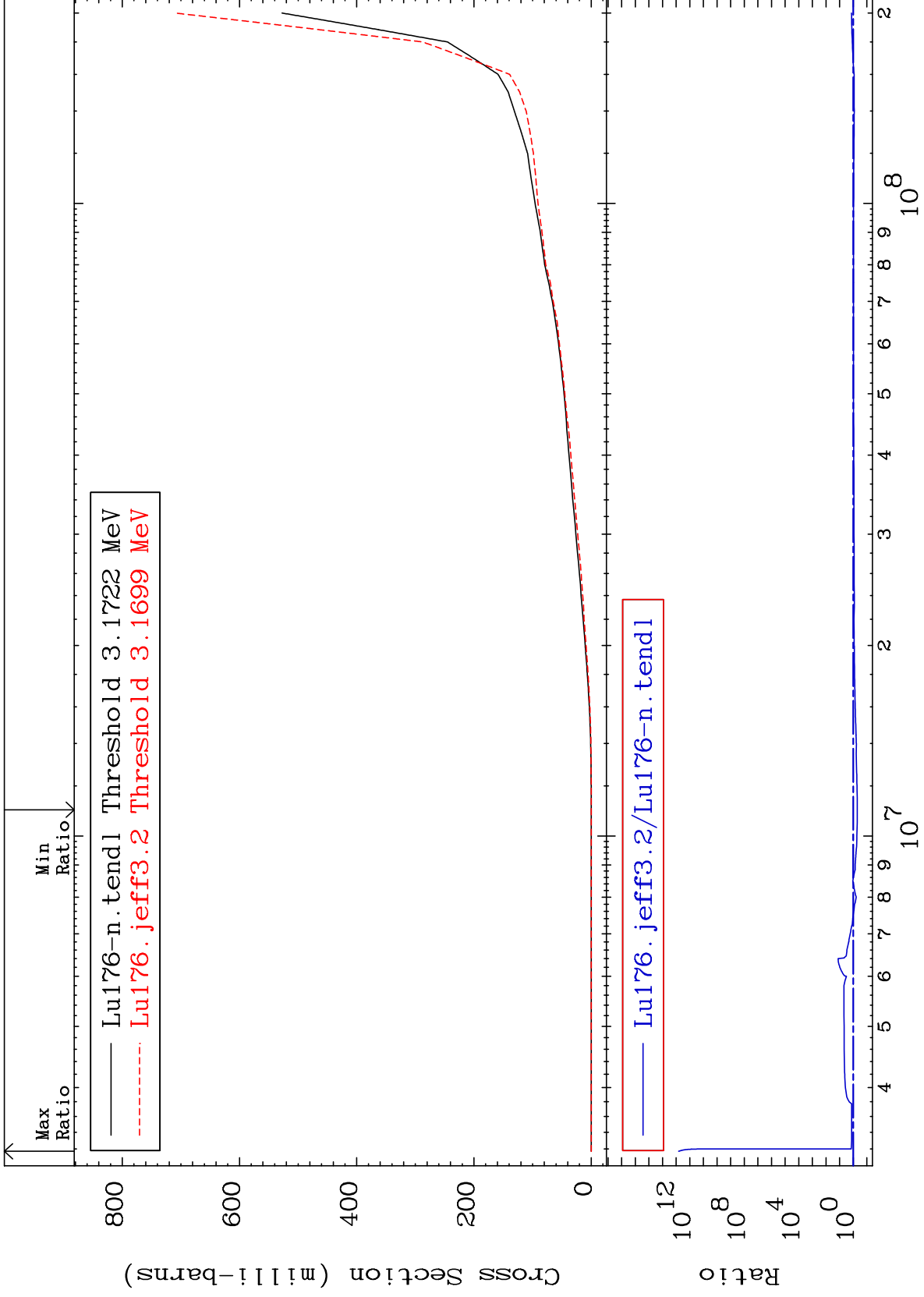




MAT 7128

Deuterium Production
Cross Section

⁷¹Lu-¹⁷⁶
-49.01 To 9999. %



61

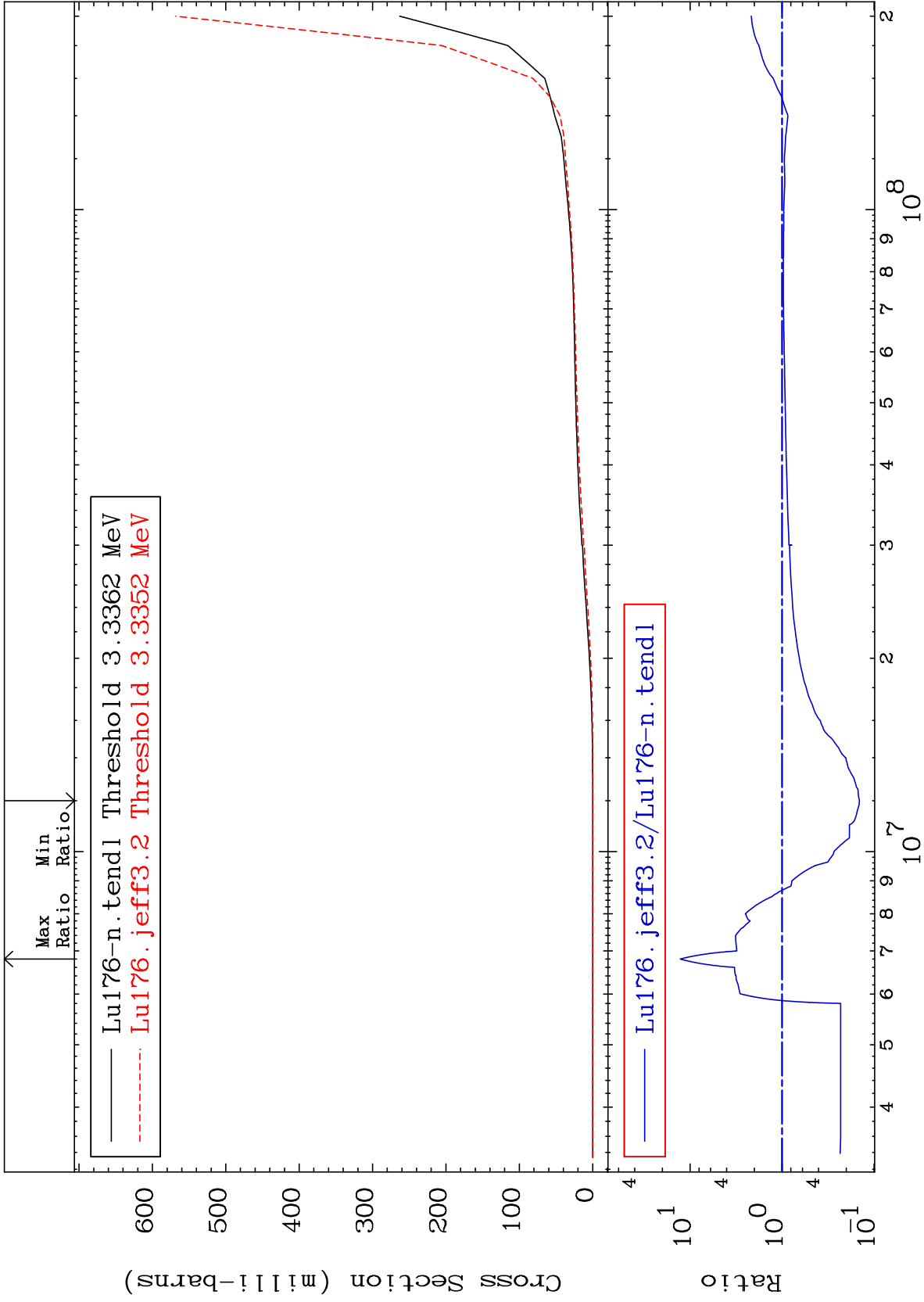
Incident Energy (eV)

⁷¹Lu-¹⁷⁶

MAT 7128

Tritium Production
Cross Section

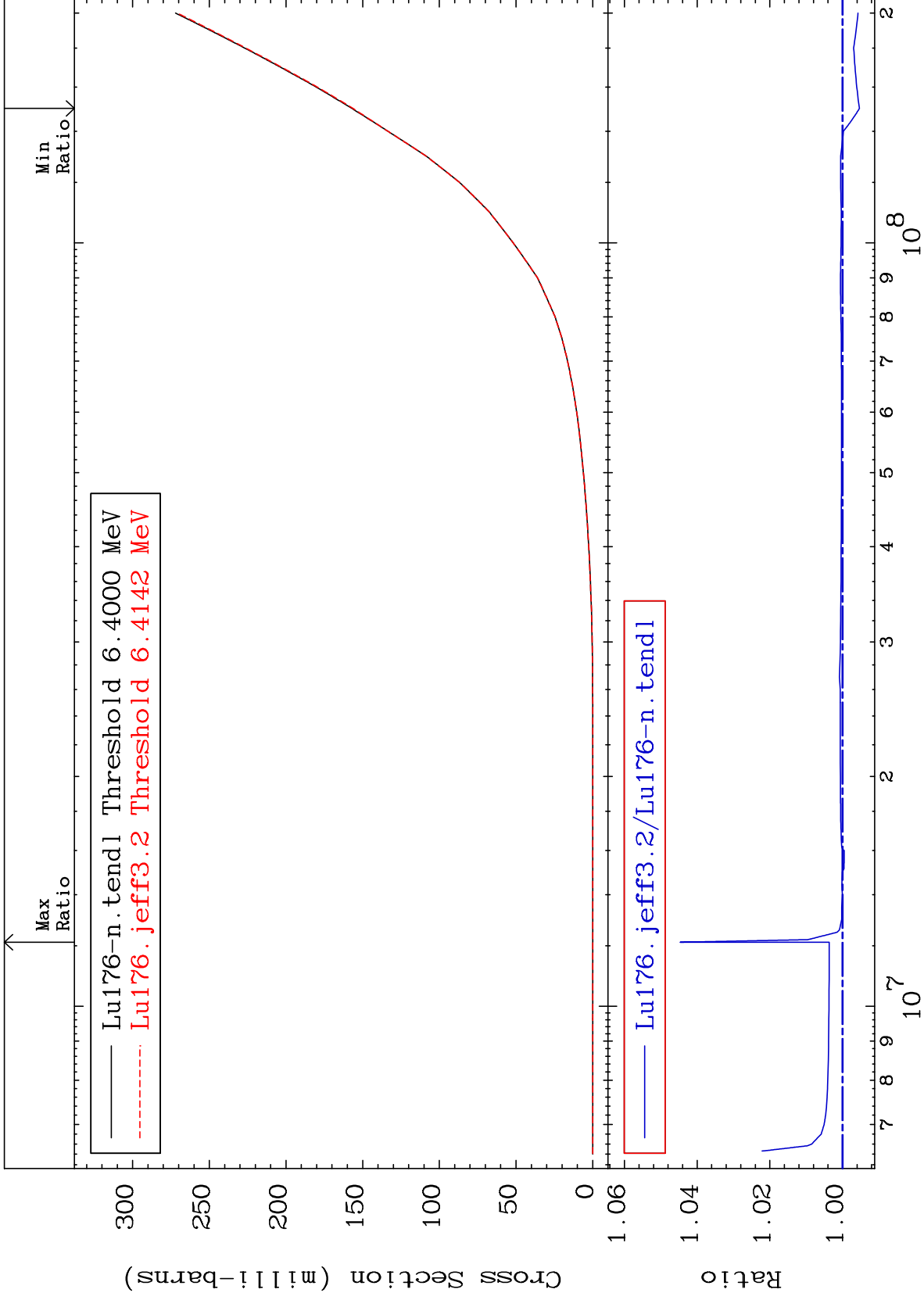
⁷¹Lu-¹⁷⁶
-85.62 To 1175. %



MAT 7128

He-3 Production
Cross Section

⁷¹Lu-¹⁷⁶
-0.465 To 4.462 %



63

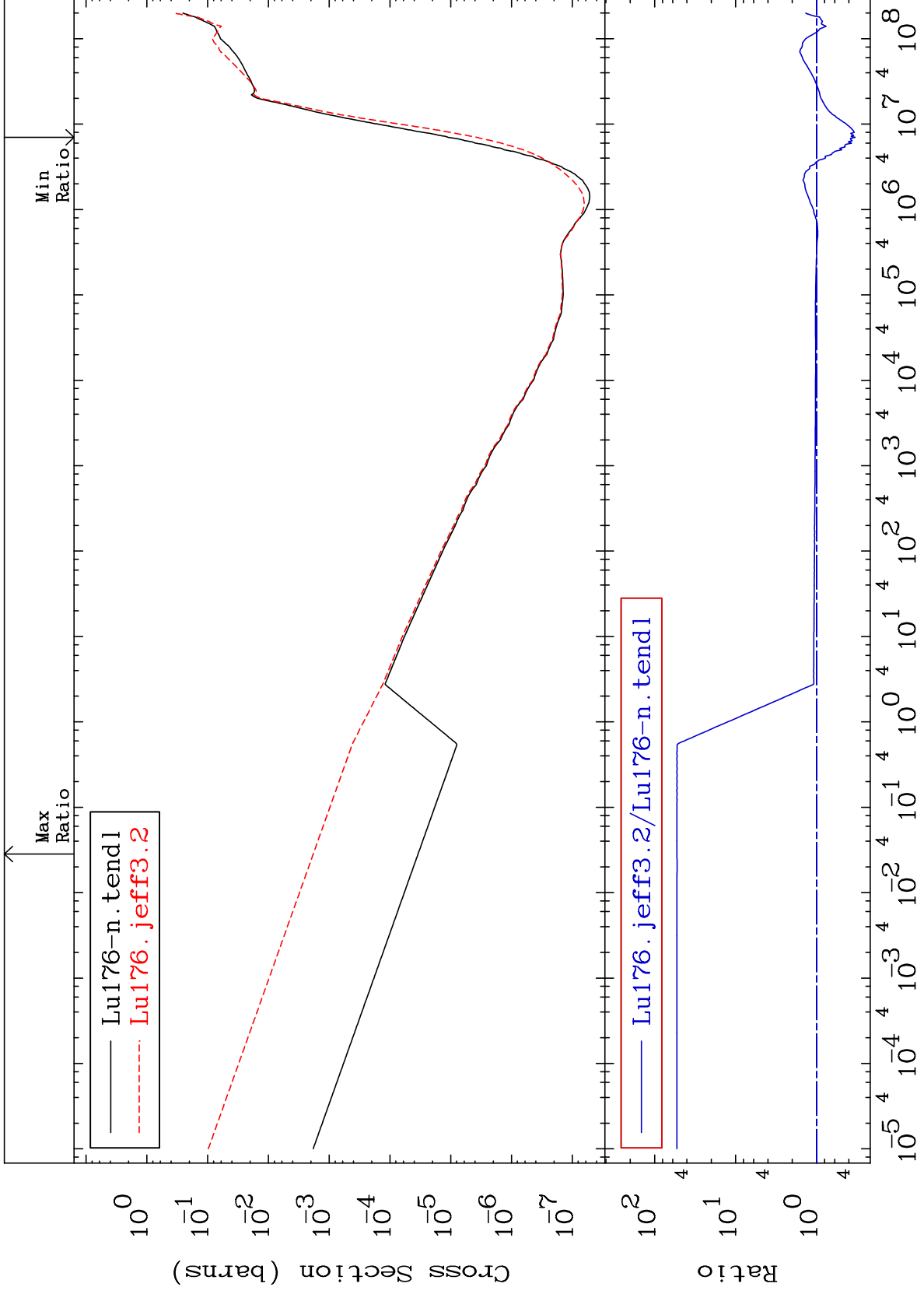
Incident Energy (eV)

⁷¹Lu-¹⁷⁶

MAT 7128

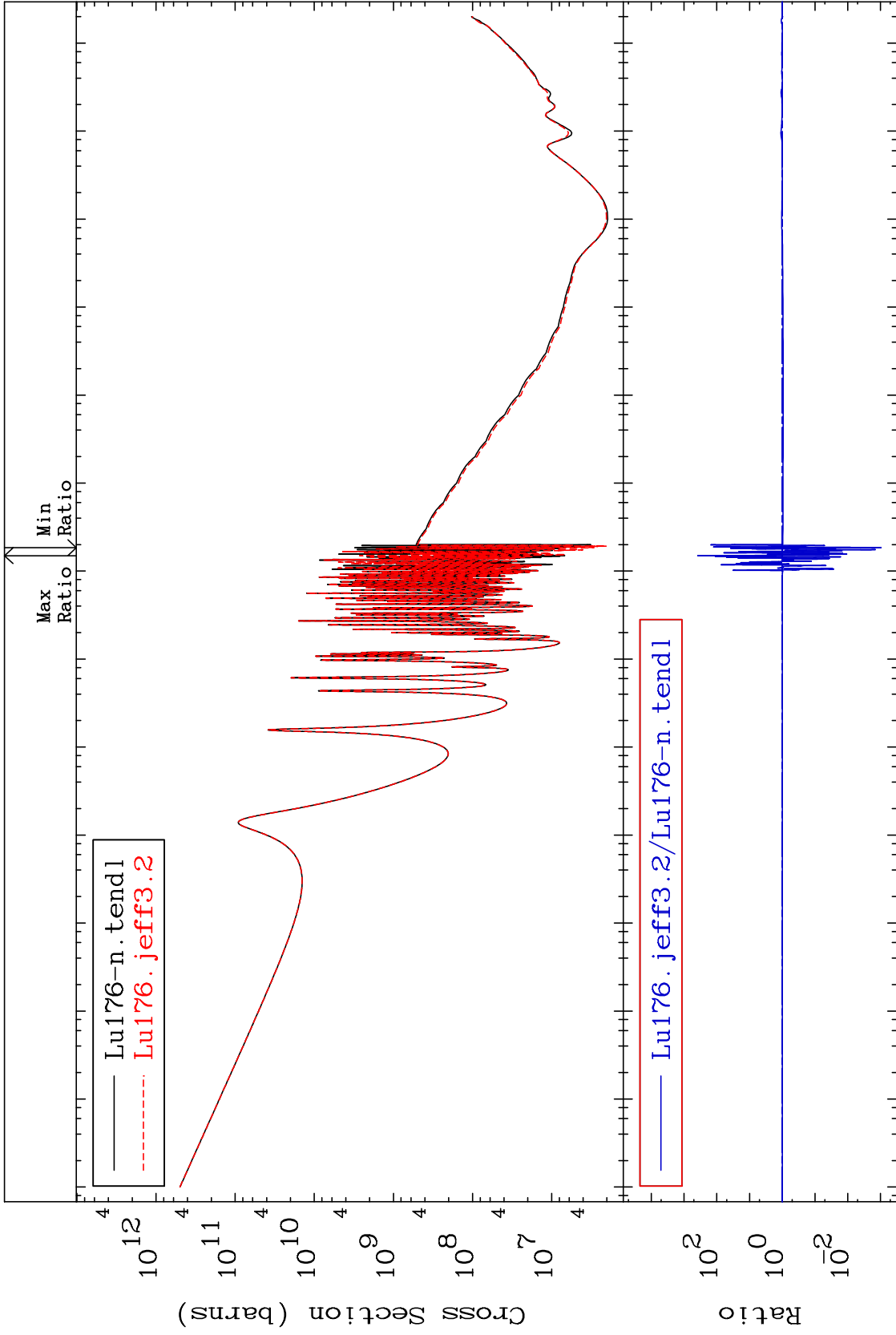
He-4 Production
Cross Section

71-Lu-176
-66.43 To 5213. %



Cross Section

-99.90 To 9999. %

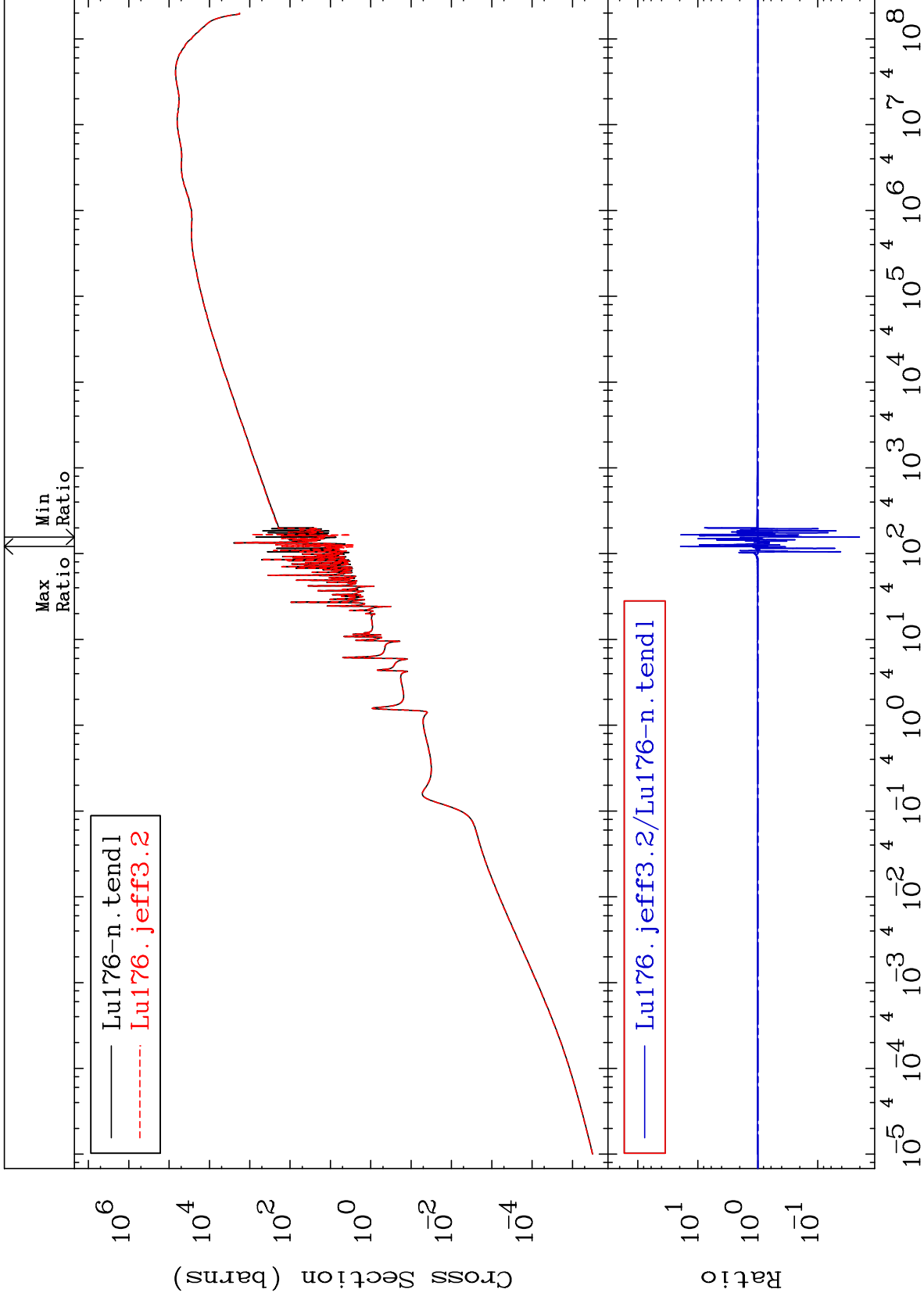


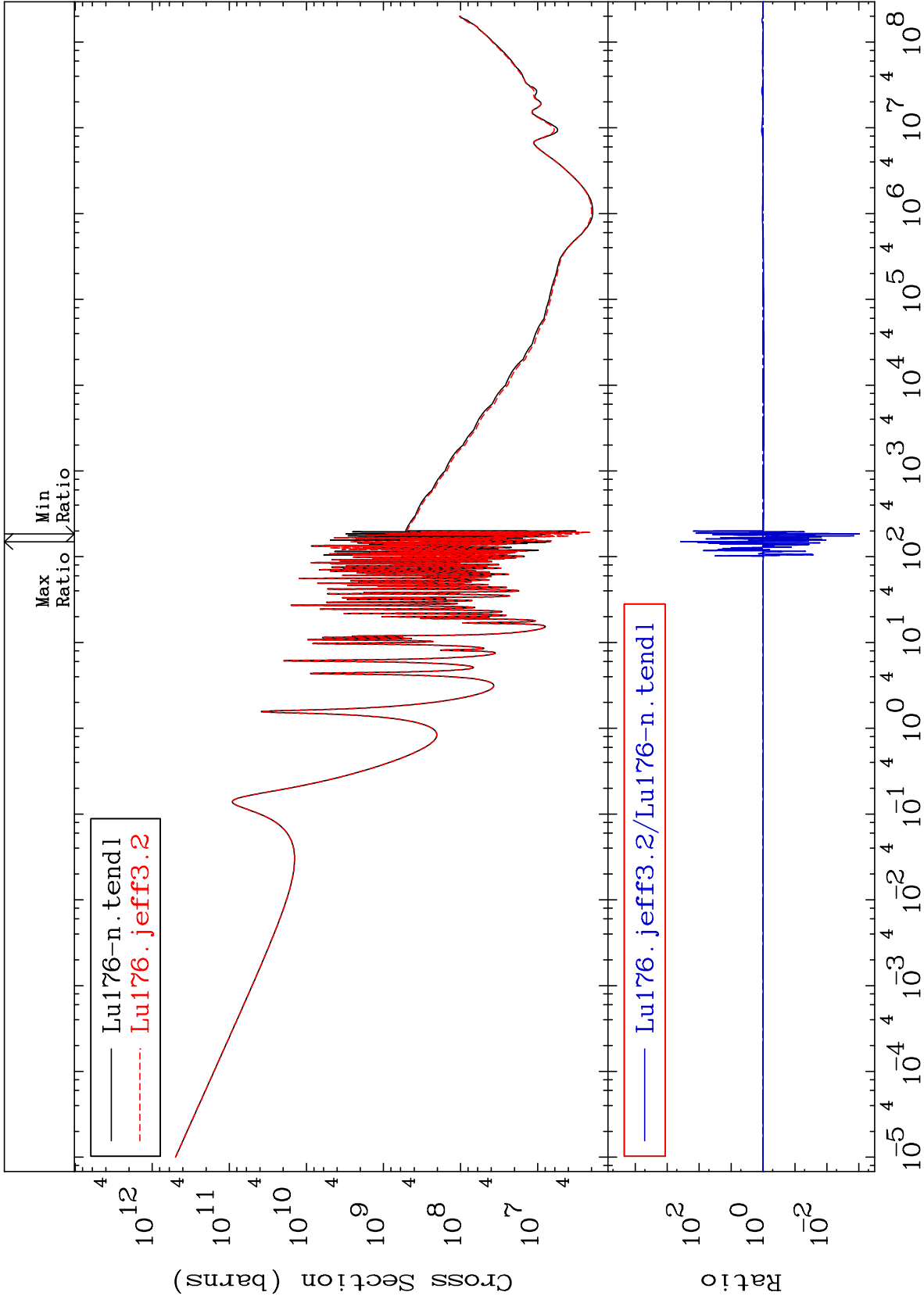
Incident Energy (eV)

MAT 7128

Kerma elastic
Cross Section

⁷¹Lu-¹⁷⁶Lu
-97.98 To 1850. %

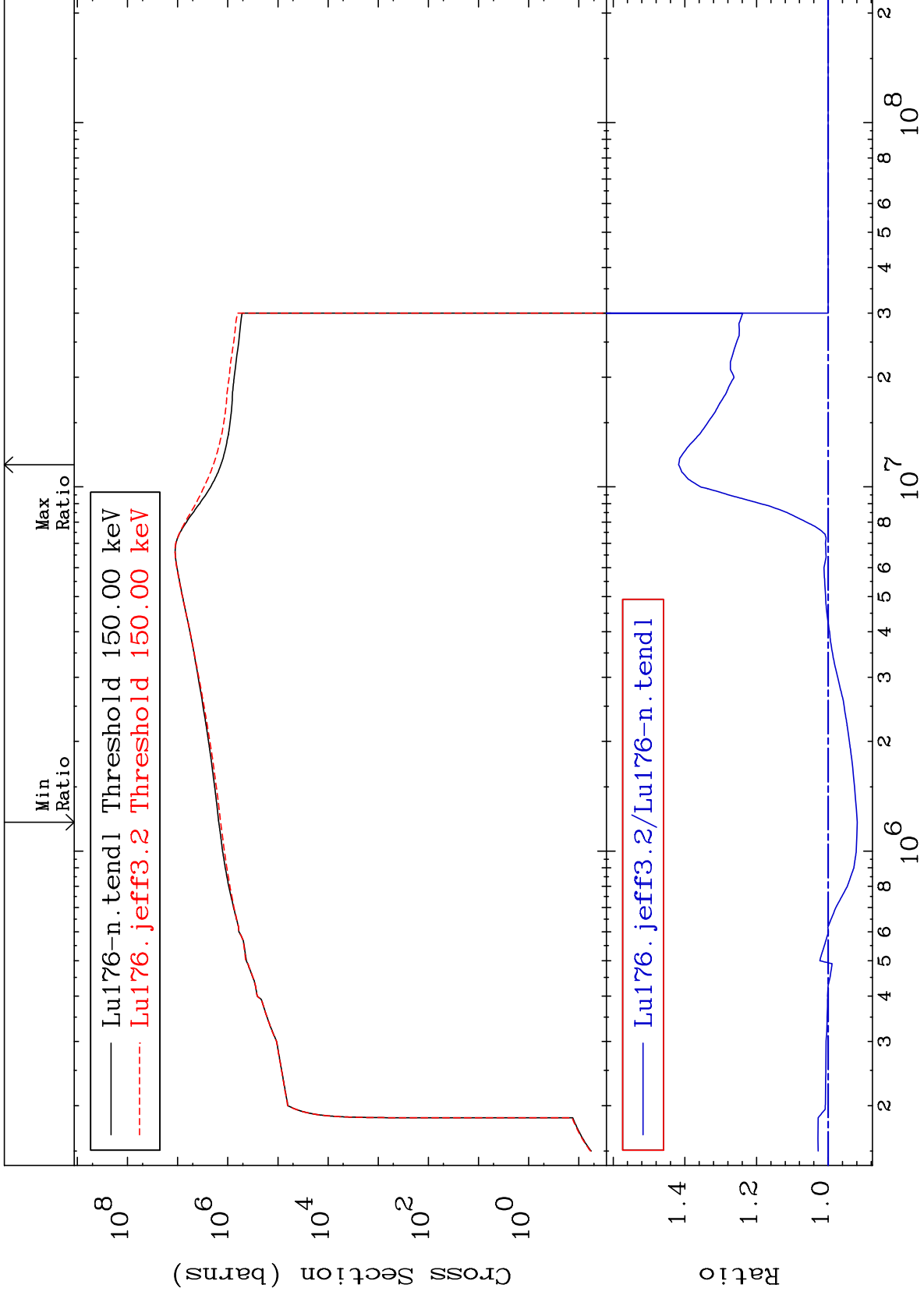




MAT 7128

Kerma inelastic (mt51-91)
Cross Section

71-Lu-176
-8.106 To 41.74 %



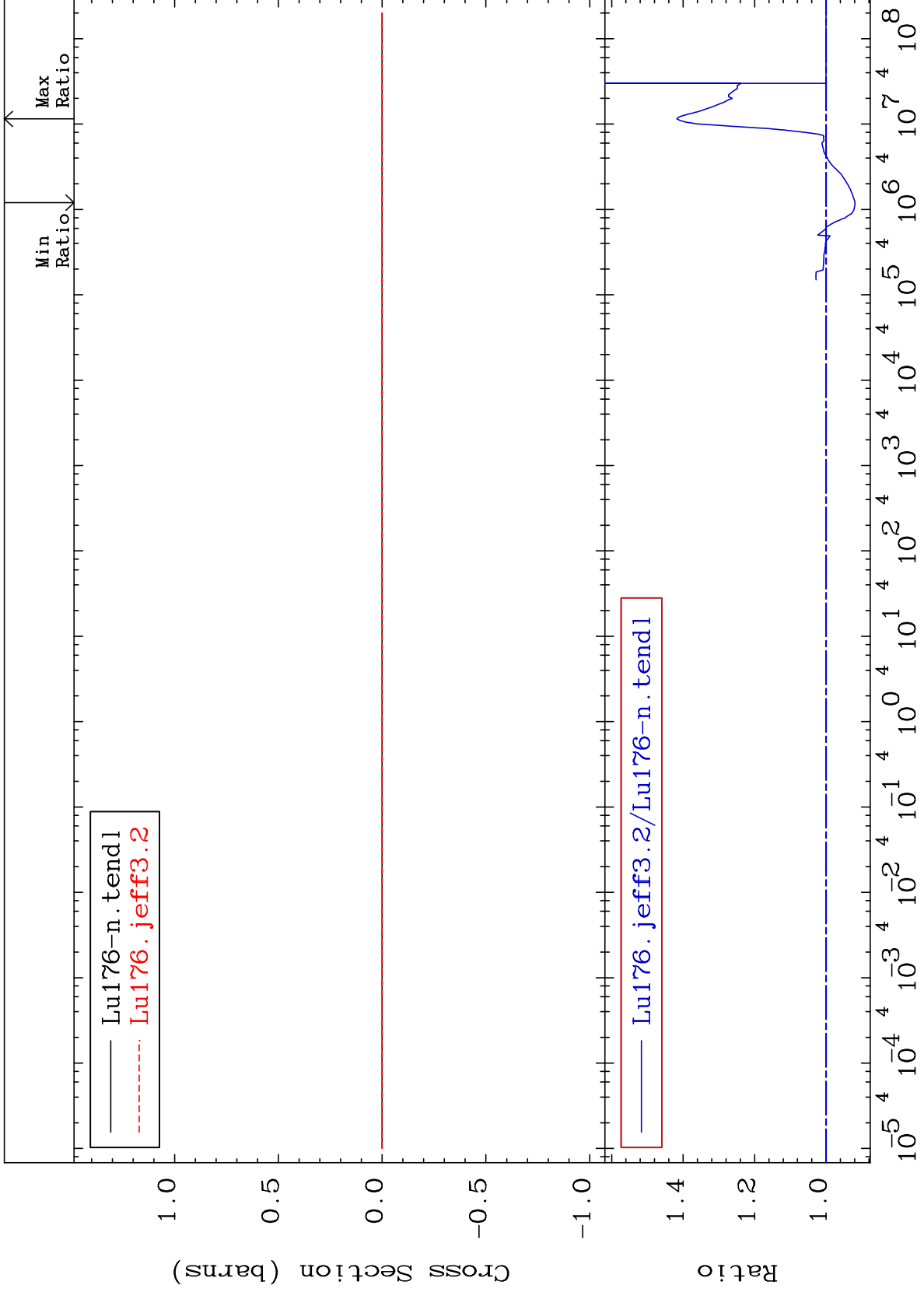
— Lu176-n.tendl Threshold 150.00 keV
- - - Lu176.jeff3.2 Threshold 150.00 keV

— Lu176.jeff3.2/Lu176-n.tendl

MAT 7128

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

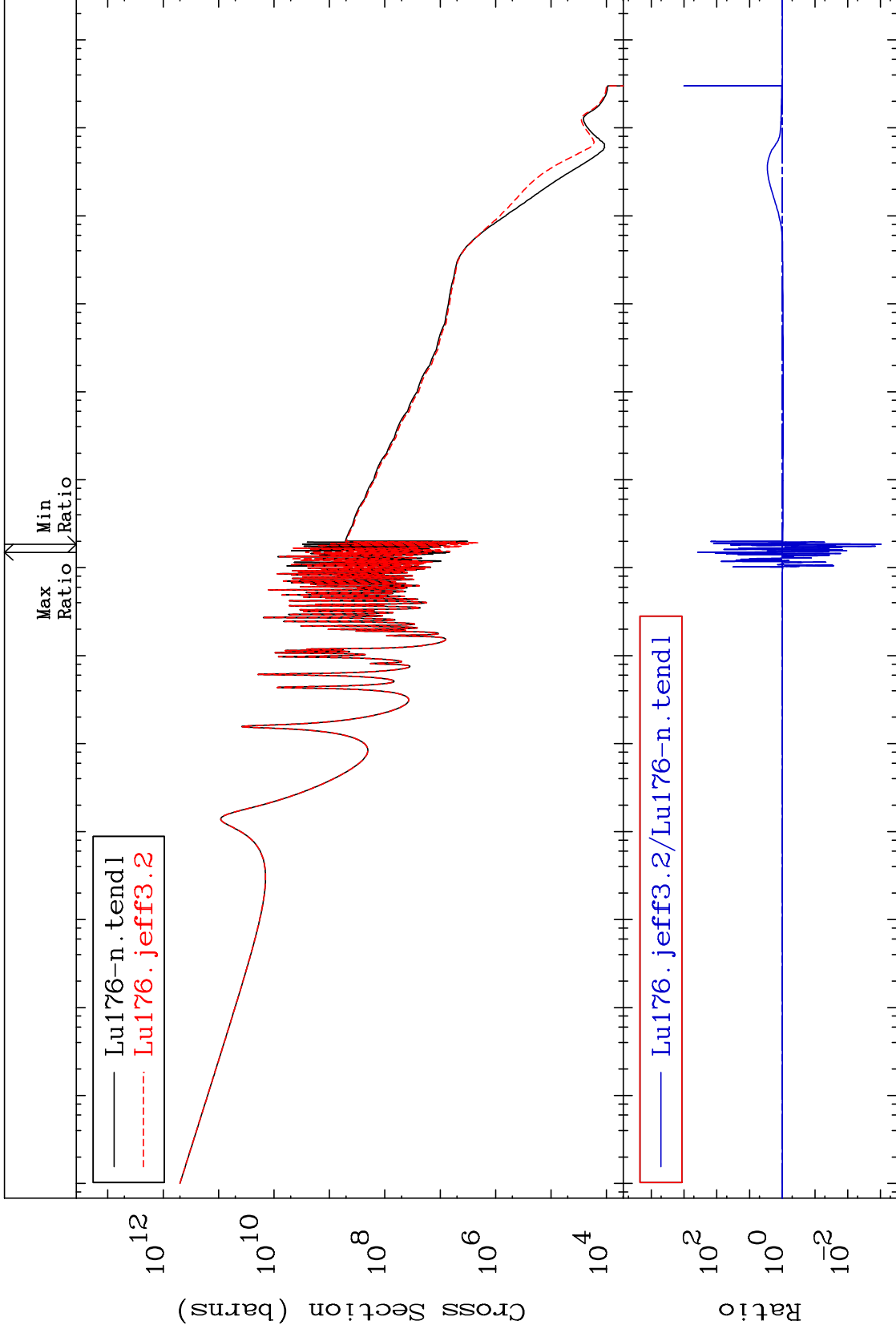
71-Lu-176
-8.106 To 41.74 %



MAT 7128

Kerma capture (mt102)
Cross Section

71-Lu-176
-99.90 To 9999. %



70

Incident Energy (eV)

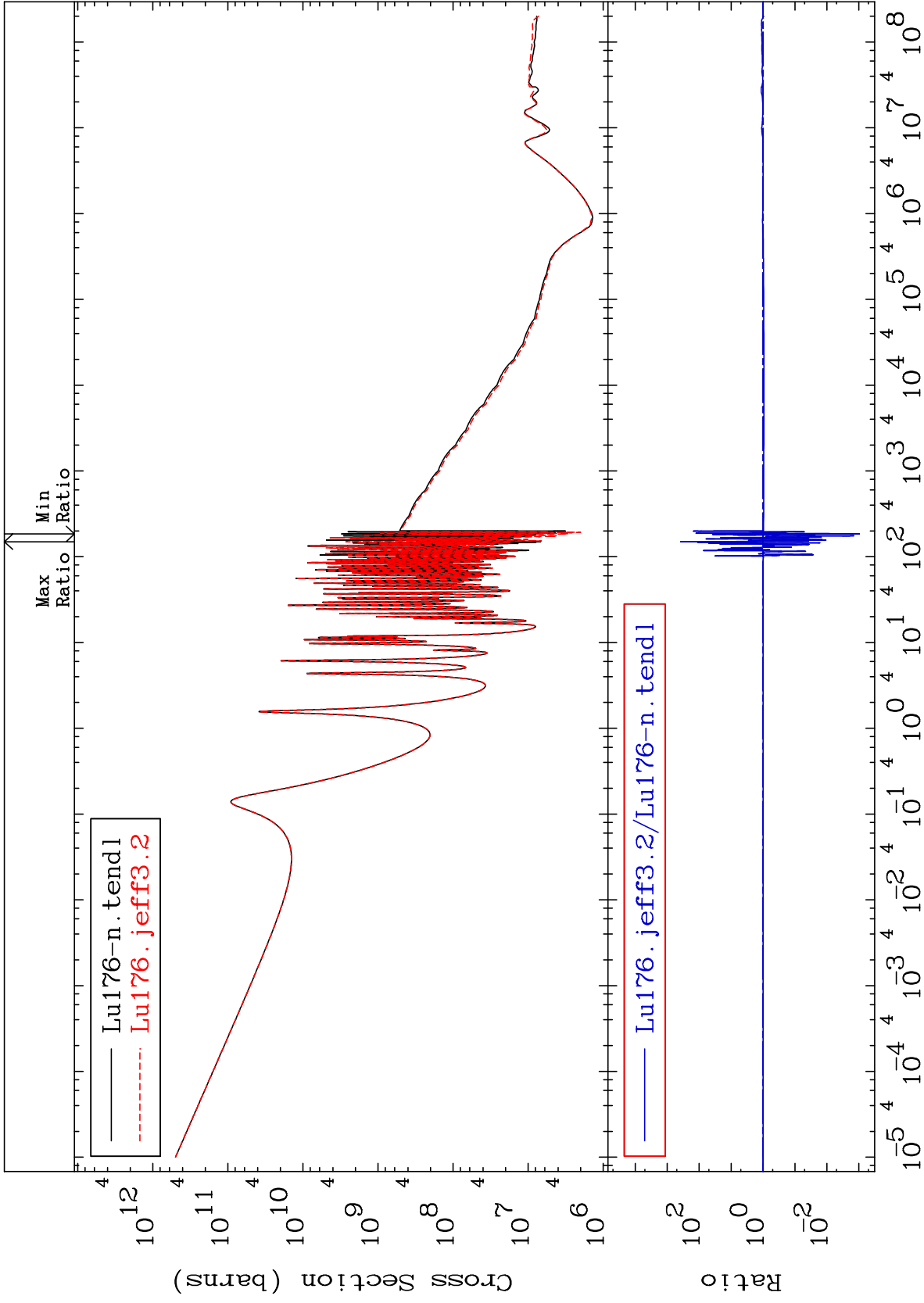
71-Lu-176

MAT 7128

Total photon (eV-barns)

71-Lu-176

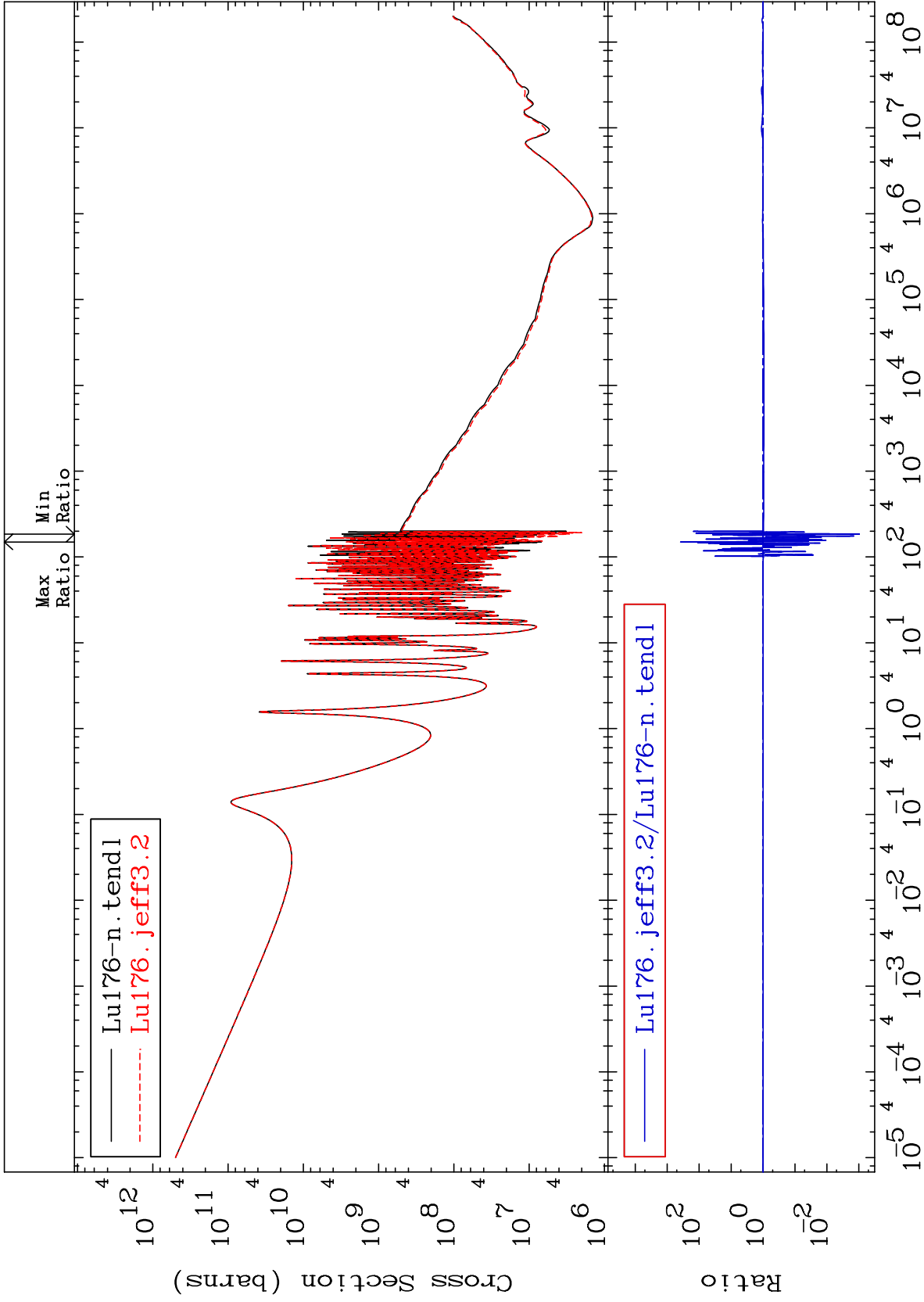
-99.90 To 9999. %



71

Incident Energy (eV)

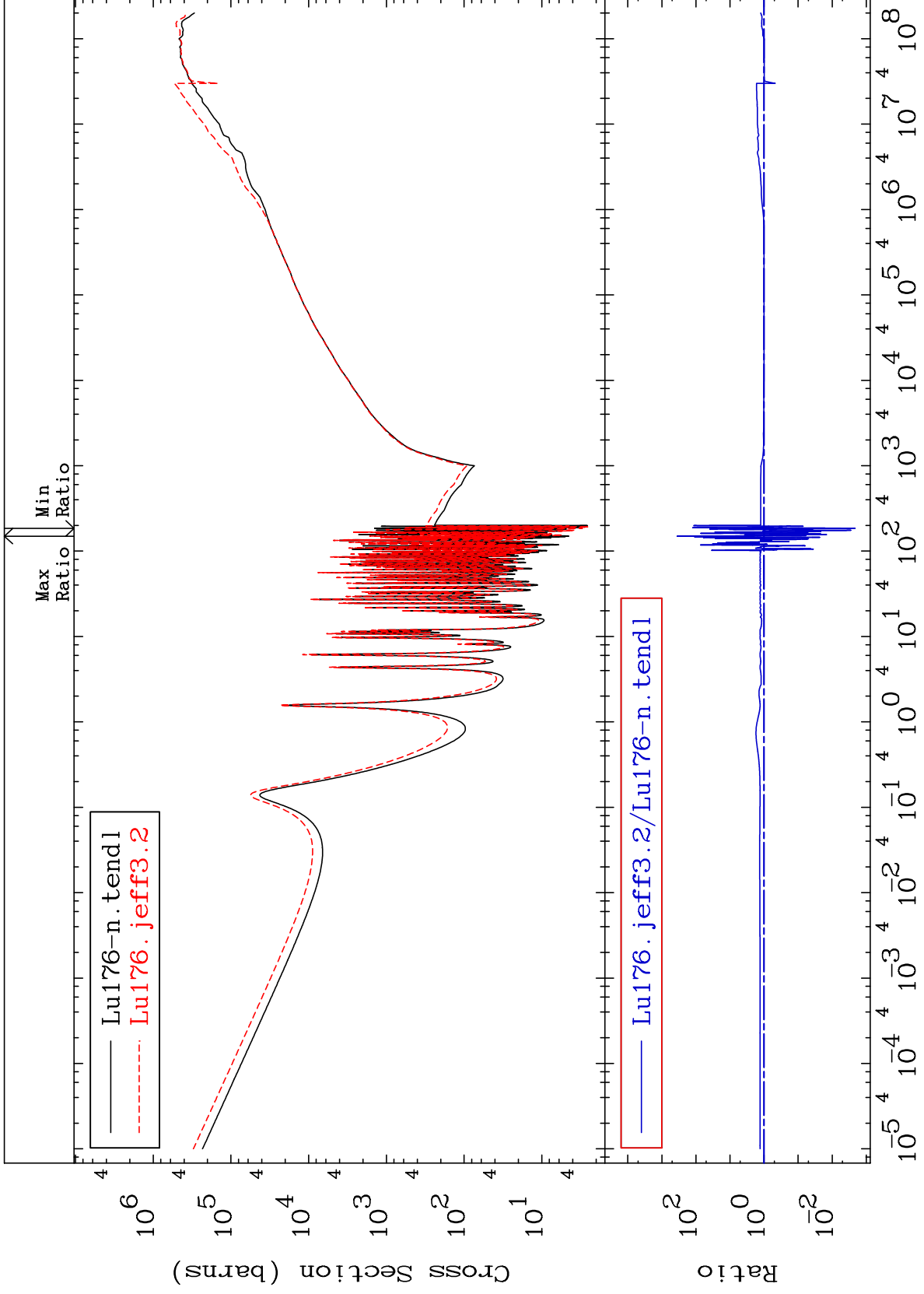
71-Lu-176



MAT 7128

Dpa total (eV-barns)
Cross Section

71-Lu-176
-99.79 To 9999. %



73

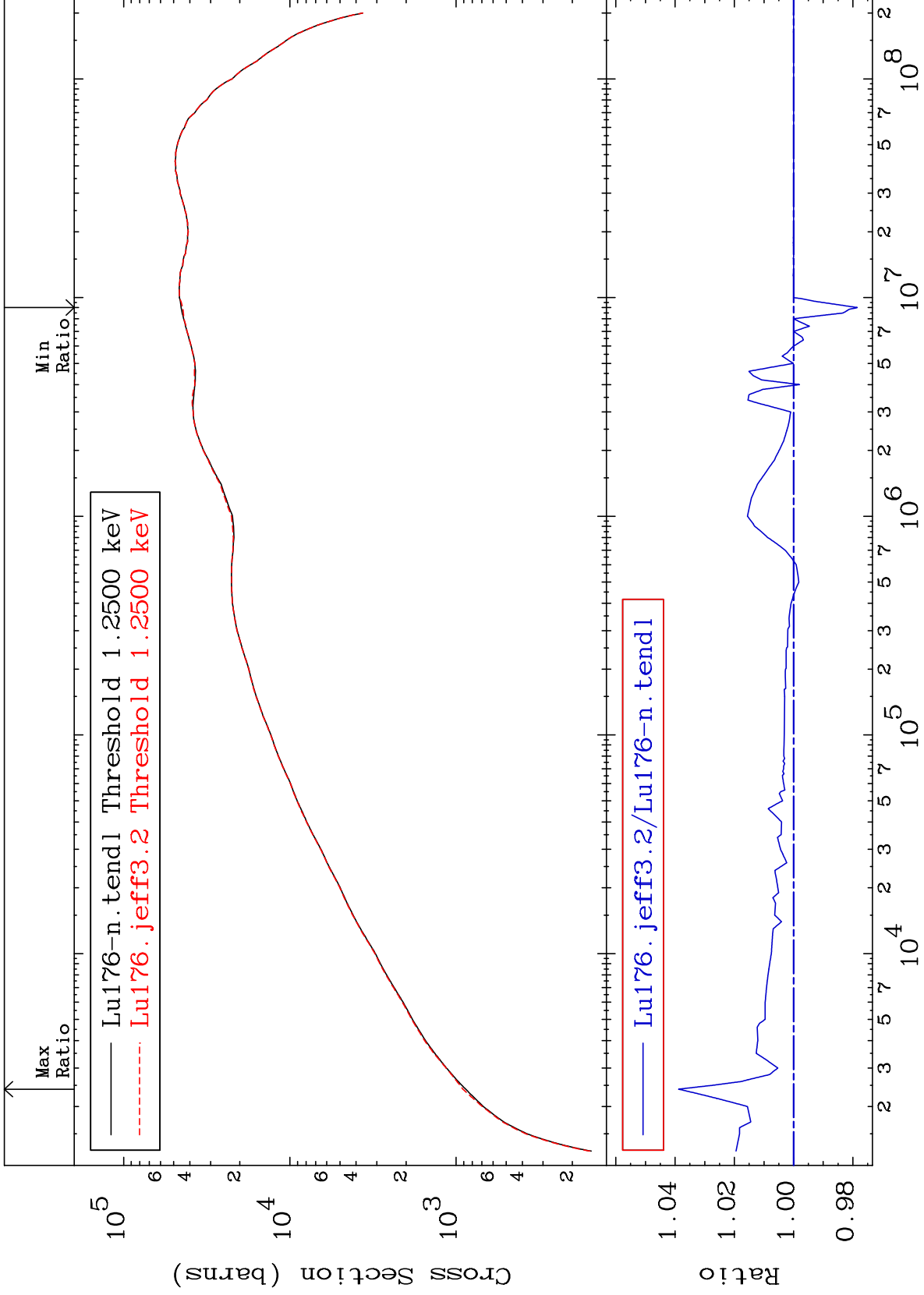
Incident Energy (eV)

71-Lu-176

MAT 7128

Dpa elastic (mt2)
Cross Section

71-Lu-176
-2.148 To 3.880 %



74

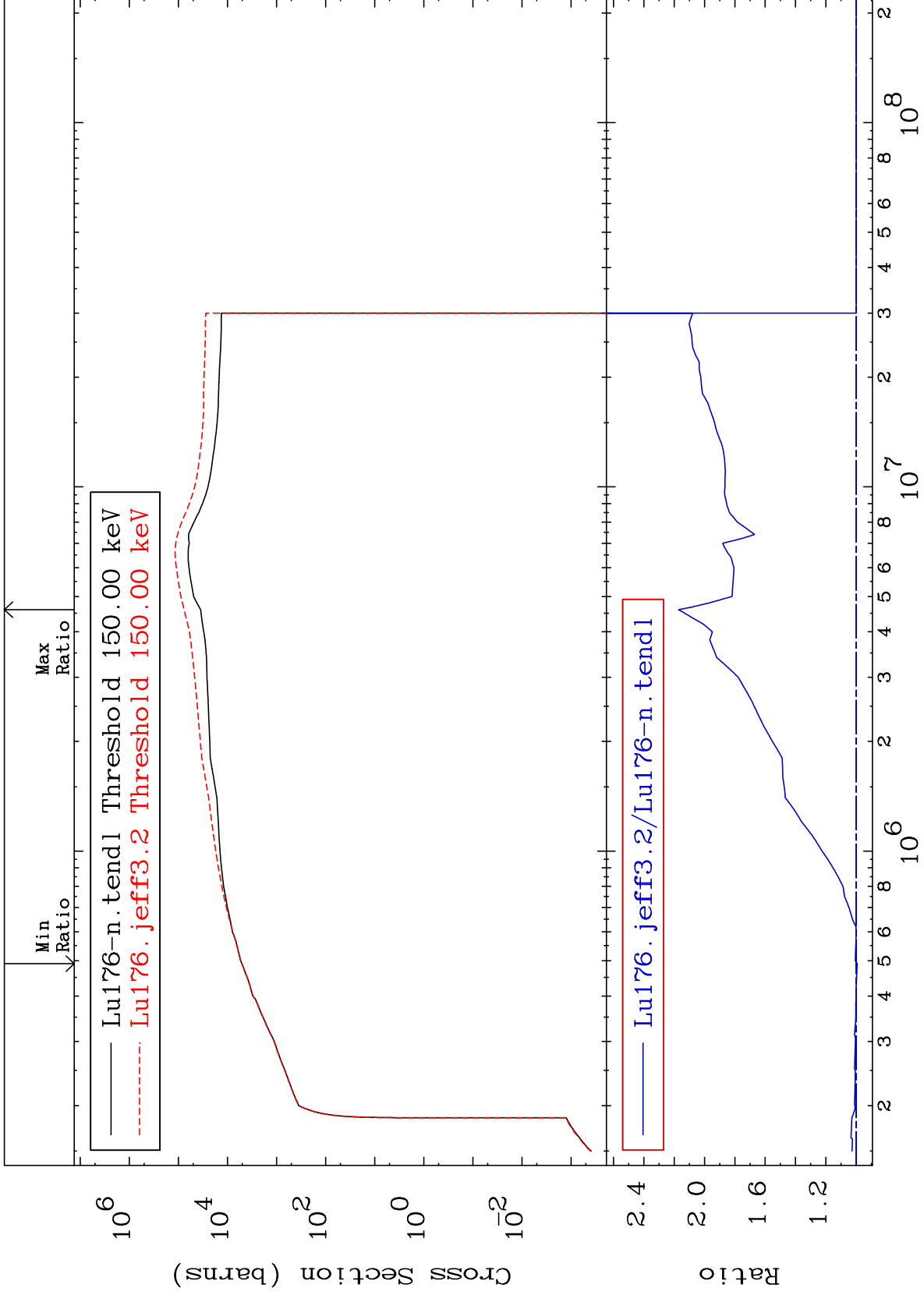
Incident Energy (eV)

71-Lu-176

MAT 7128

Dpa inelastic (mt51-91)
Cross Section

71-Lu-176
-0.693 To 117.1 %



75

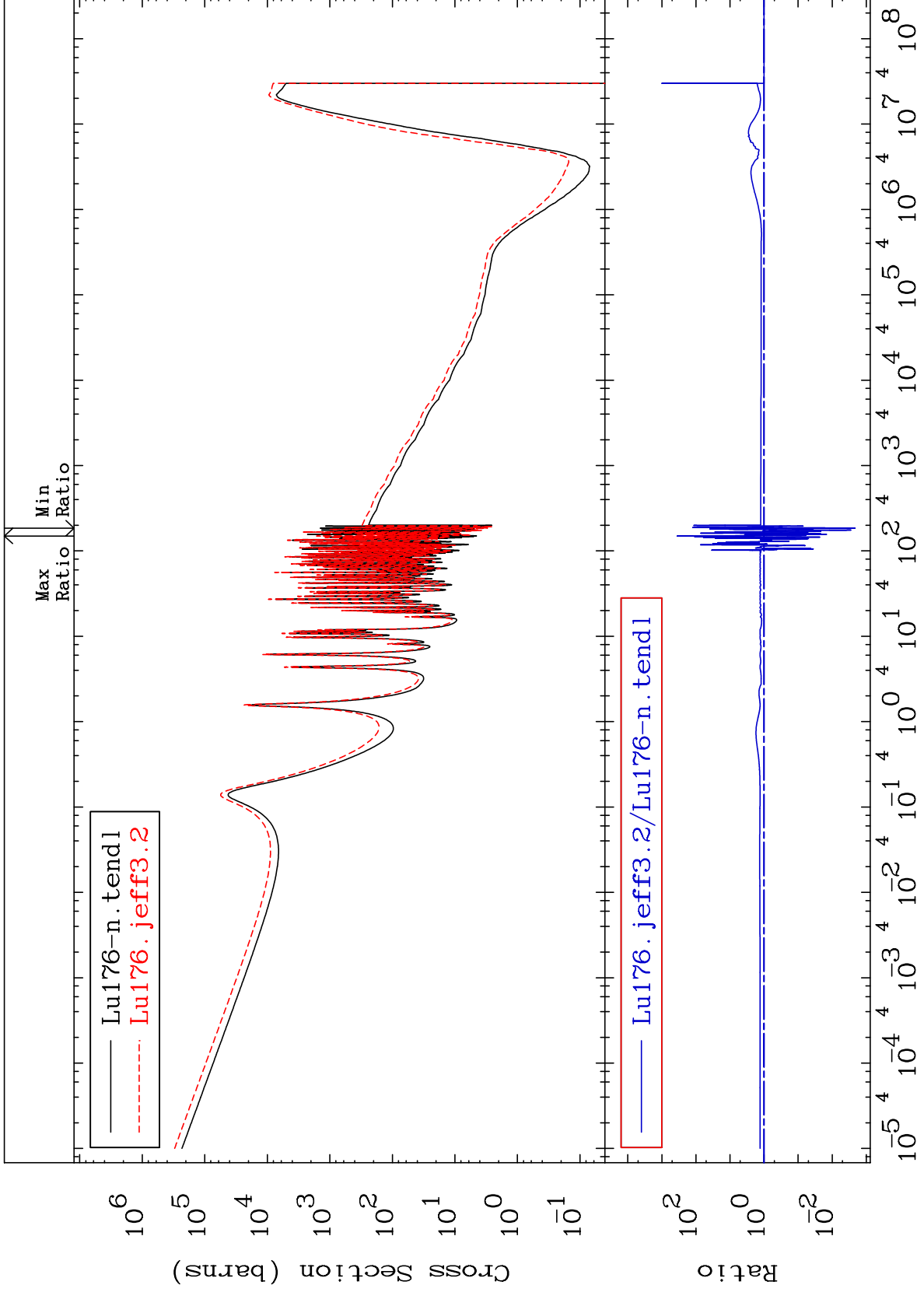
Incident Energy (eV)

71-Lu-176

MAT 7128

Dpa disappearance (mt102 -120)
Cross Section

71-Lu-176
-99.79 To 9999. %



76

Incident Energy (eV)

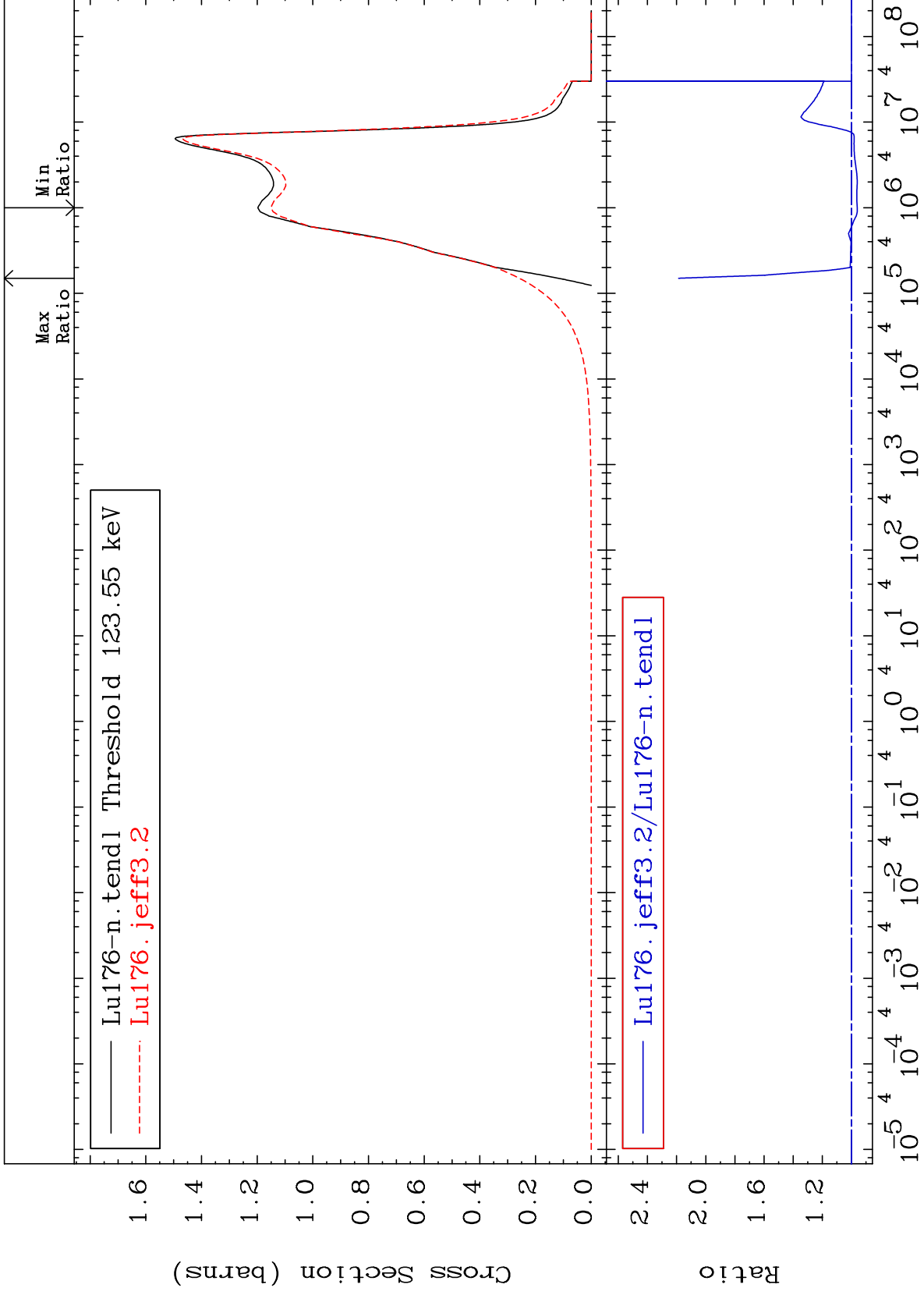
71-Lu-176

MAT 7128

Inelastic: 71-Lu-176g

71-Lu-176

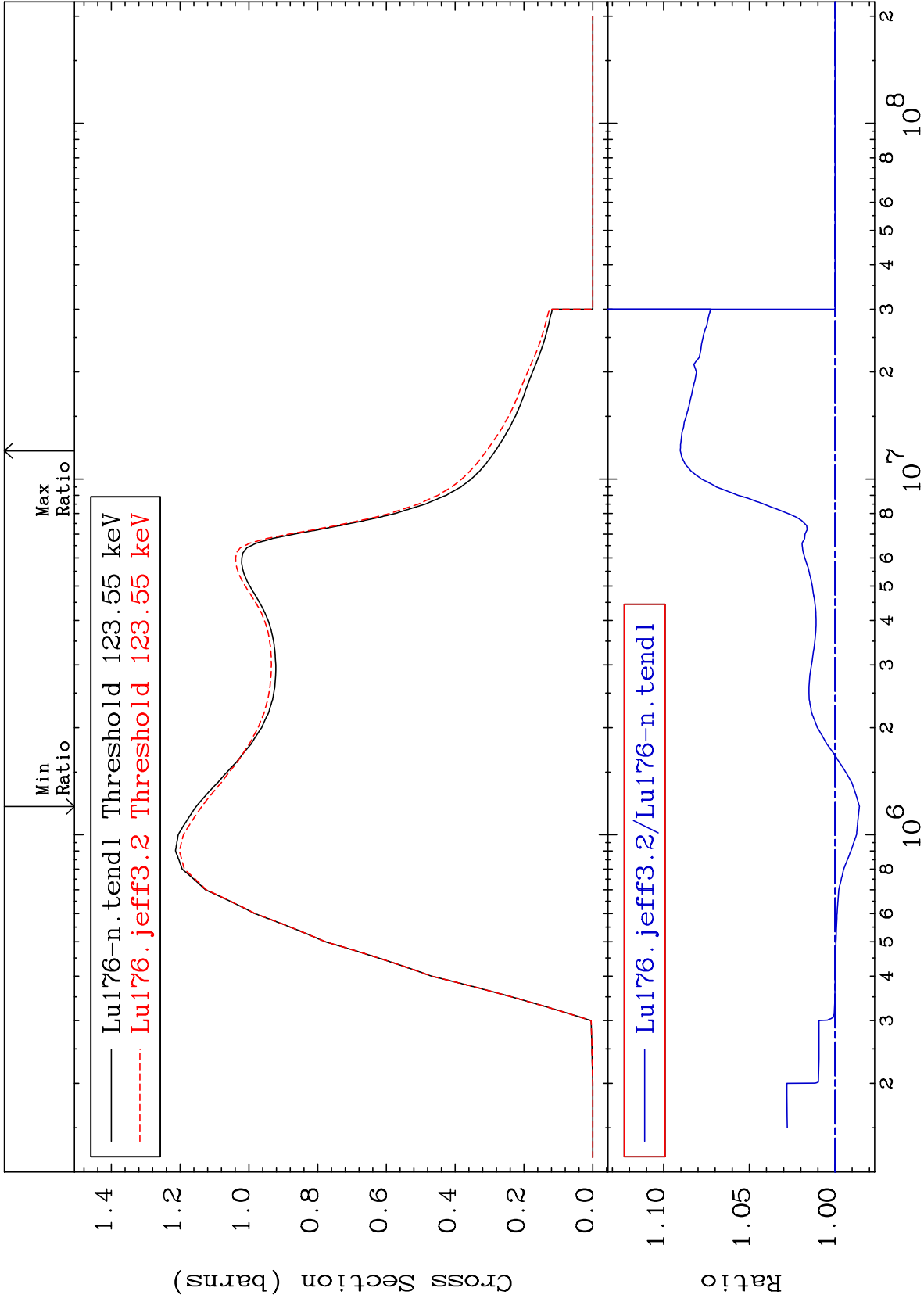
Radionuclide Production Cross Section -3.946 To 118.6 %



77

Incident Energy (eV)

71-Lu-176



Radionuclide Production Cross Section -0.656 To 38.13 %

