



## **Kink Instabilities and a filament eruption**

C. Dumitrache and D.R. Constantin

Astronomical Institute of Romanian Academy, Solar, Bucharest, Romania (crisd@aira.astro.ro)

A huge complex filament was observed between 28 December 2000 and 7 January 2001. We have analyzed its dynamics and its sudden disappearance. The filament erupted in a CME after a mild helical up-awarded movement of plasma on 7 January. We attempt to explain this CME event by kink instabilities by analyzing the 3-D coronal magnetic field extrapolated from MDI magnetograms and comparing with numerical simulations.