

Vector magnetic field in filament channels seen  
with high polarimetric sensitivity

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We analyze a map of a filament channel observed with THEMIS during the run of JOP 178 on October 16 2004 and reduced with the telescope-provided data tools.

The high sensitivity achieved in the polarimetric observations results in a pleiade of new magnetic details throughout the channel region.

We look in detail at the parasitic polarities and the vector fields inferred for them and discuss their possible concave topology in the local solar reference frame, with some details over the azimuth ambiguity problem.

The results will be compared with present theories on prominence feet/barbs.

We will check how the orientation of the vectors follows the rules of chirality.