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## **Hinode/SOT spectropolarimetry and vector magnetic field comparisons with a selection of international instruments.**

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Vector Magnetic Comparison Group

**Abstract.** A new informal working group has formed in the US, the “Vector Magnetogram Comparison Group”, to investigate the consistency of measuring full Stokes polarization spectra and the inferred photospheric vector magnetic field among different instruments. We present here early results of our first gathering, 27-29 October 2009 at the National Solar Observatory in Tucson, Arizona, USA. We present first a discussion of methods for doing these comparisons. Second, we present initial results using data from Hinode/SP as a “standard” against which to relate data from SOLIS/Vector SpectroMagnetograph, the Facility InfraRed Spectropolarimeter (FIRS), the THEMIS spectropolarimeter, and the SoHO/Michelson Doppler Imager.