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First Goniopolarimetric results of the STEREO/Waves instrument

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The S/Wvaves instrument onboard the 3 axis stabilized STEREO spacecraft is composed of a set of 3 monopole antennas connected to a radio receiver. The receiver measures spectral and cross-spectral power densities on one, two or three antennas in the frequency range between 10 kHZ and 16 MHz. This package will therefore have goniopolarimetric (GP), aka direction-finding, capabilities, allowing to determine the direction of arrival of an incoming wave, its flux and polarization properties. GP analytical inversions have been developed and applied to the CASSINI/RPWS data. We present the first goniopolarimetric results of solar radio bursts obtained with the S/Waves data, using those GP inversions. We also present preliminary results of the electrical antennas in-flight calibration that occurred in late 2006.