



Determination of the base capacitances of the STEREO/WAVES antennas

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The STEREO/WAVES experiment uses 3 monopole stacer antennas to measure electric fields from the quasi-static limit to 16MHz and beyond. Numerical and experimental calibration has been completed, using an estimation of the base capacitances (i.e. the capacitances of antenna mounting, receiver and cable) of 90 pF. As the first measurement data became available, however, it became clear that this estimation must have been too high. By matching the measured and calculated auto correlation, we computed a more realistic value to be used in future calibration processes.