

IMPACT OF SOME SPECIFIC TECHNICAL REALISATION OF THE WHISPER INSTRUMENT ON PLASMA DENSITY AND WAVE MEASUREMENTS

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Owing to particular constraints relative to the Cluster mission, also in order simply to improve the technique of spatial plasma measurements, the WHISPER instrument's design presents several new features as compared with those of previous magnetospheric relaxation sounders. We will present various examples of positive aspects obtained by those new features, like: (i) a high cleanliness of Fourier spectra from natural emissions, (ii) a better understanding of the conditions under which resonances are triggered.