

Abstract Submitted
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First operation of the multi-channel Fourier Transform spectrometer for perpendicular and oblique ECE measurements at JET CARLO SOZZI, SAUL GARAVAGLIA, GIOVANNI GROSSETTI, SILVANA NOWAK, ALESSANDRO SIMONETTO, IFP-CNR, Associazione EURATOM-ENEA-CNR sulla Fusione, Milano, Italy, ELENA DE LA LUNA, Asociación EURATOM-CIEMAT, CIEMAT, Madrid, Spain, JOHN FESSEY, EURATOM-UKAEA Fusion Association, Culham, UK, MARCO ZERBINI, Associazione EURATOM-ENEA sulla Fusione, Frascati, Italy, JET-EFDA COLLABORATION — The upgraded 6 channels Martin Puplett interferometer for Electron Cyclotron Emission measurements has entered operation during 2006 experimental campaign at JET. The instrument provides the ECE spectra for three lines of sight at different toroidal angles (0, 10 and 22 degrees with respect to the perpendicular to the toroidal field) and two linear polarizations over an extended bandwidth to avoid aliasing (75-800 GHz), with 11 ms/profile time resolution and 7.5 GHz single line equivalent spectral resolution. While the absolute in-vessel calibration of the whole system is foreseen for the next shutdown, at present the data of the perpendicular channel are relatively calibrated on the Michelson interferometer. As preliminary step of the oblique channels validation the measured data are compared with the calculated emission and cross-checked with the local characterization measurements. The process of data validation and the first physics results obtained will be discussed.

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