
Contribution ID: **32** Type: **not specified**

# COSMO fast readout system

COSMO experiment is aimed at detecting CMB spectral distortions from Concordia Station in Antarctica. It is based on a cryogenic FFT spectrometer using KIDs as fast detectors. The reduced number of pixels and the fast acquisition rate, tens of kHz, prompted us to develop an in-house heterodyne readout electronics based on commercial components. In this contribution I will describe in detail the architecture and the advantages given by the commercial platform in terms of fast prototyping and firmware development. I will also present preliminary performance tests.

**Primary author:** ZANNONI, Mario (University of Milano Bicocca)

**Presenter:** ZANNONI, Mario (University of Milano Bicocca)

**Session Classification:** CMB