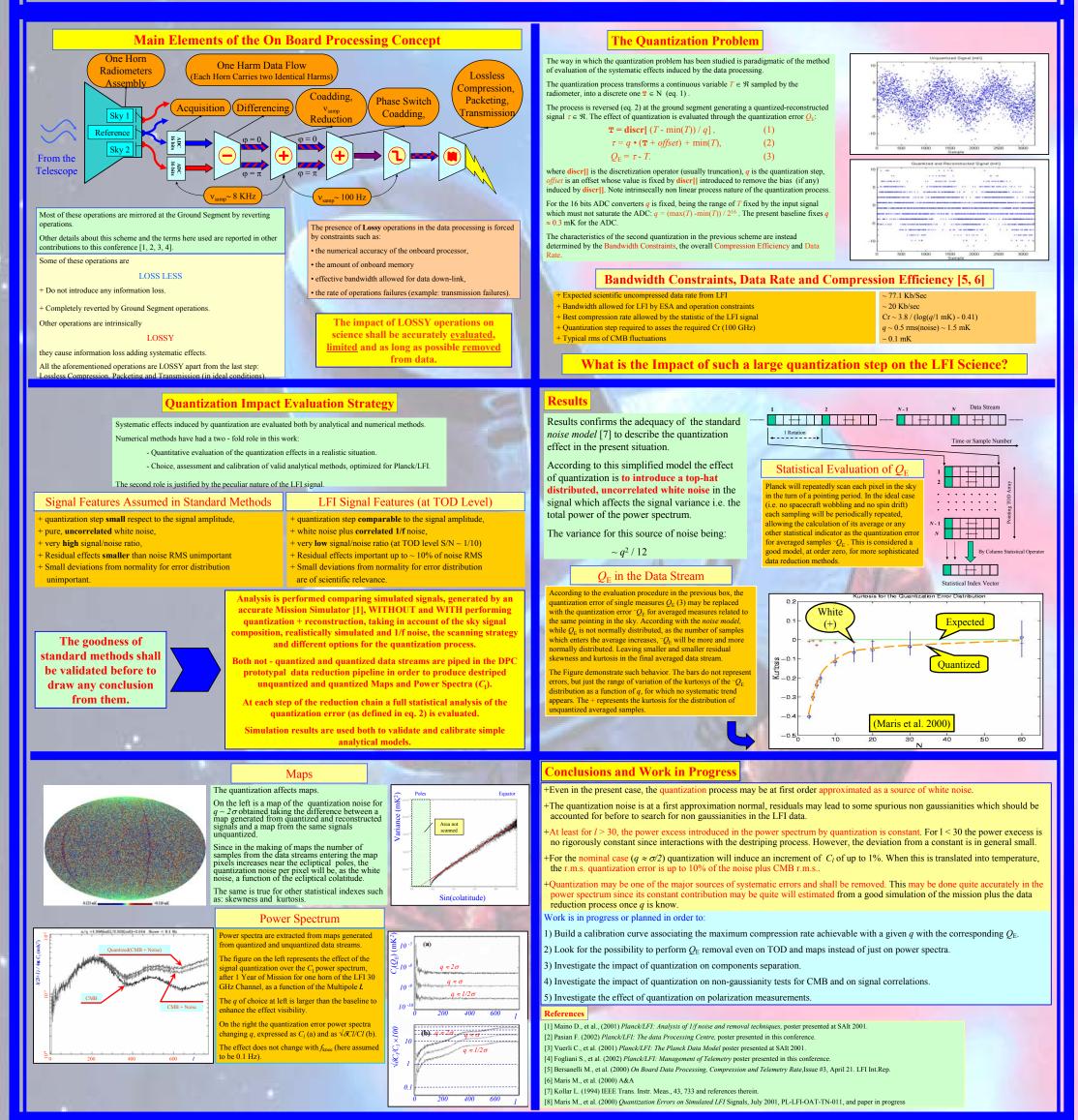


M. Maris <sup>1</sup>, D. Maino <sup>1</sup>, C. Burigana <sup>2</sup>, A. Mennella <sup>3</sup>, M. Bersanelli <sup>4,3</sup>, F. Pasian <sup>1</sup>

<sup>1</sup> INAF – Osservatorio Astronomico di Trieste; <sup>2</sup> IASF/CNR – Sez. Bologna; <sup>3</sup> IASF/CNR – Sez. Milano; <sup>4</sup> Univ. Milano

Real processing of the data produced by the PLANCK - Low Frequency Instrument, such as: on board acquisition, processing and transmission and ground processing, introduces systematic effects which have to be quantified and when possible removed. Signal quantization (i.e. discretization) has been the first one of such effects studied in a quantitative way in order to asses its impact on the LFI scientific performances. The main effect of quantization is equivalent to add a baseline to the power spectrum. Such baseline is equivalent to a  $\delta C_1/C_1 < 0.01$  or 10% of the noise plus CMB r.m.s. but may be very well modeled, estimated and removed from power spectrum.



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