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Count response model for the CMB spots

Massimo Giovannini

(Submitted on 28 Oct 2010)

The statistics of the curvature quanta generated during a stage of inflationary expansion is used to derive a count response model for the large-scale phonons determining, in the concordance lore, the warmer and the cooler spots of the large-scale temperature inhomogeneities. The multiplicity distributions for the counting statistics are shown to be generically overdispersed in comparison with conventional Poissonian regressions. The generalized count response model deduced hereunder accommodates an excess of correlations in the regime of high multiplicities and prompts dedicated analyses with forthcoming data collected by instruments of high angular resolution and high sensitivity to temperature variations per pixel.

Comments:	9 pages
Subjects:	Cosmology and Extragalactic Astrophysics (astro-ph.CO);
	General Relativity and Quantum Cosmology (gr-qc); High Energy
	Physics - Phenomenology (hep-ph)
Report number:	CERN-PH-TH/2010-243
Cite as:	arXiv:1010.5972v1 [astro-ph.CO]

Submission history

From: Massimo Giovannini [view email] [v1] Thu, 28 Oct 2010 14:01:45 GMT (10kb)

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