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Non-Gaussianity in multidetector component separation

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SMICA (Spectral Matching Independent Component Analysis) is a non-parametric method (Delabrouille et al. 2003; Cardoso et al. 2008) that operates in the spherical harmonic domain. It relies on the assumptions of statistical isotropy and Gaussianity of the signals. In this work, we relax the Gaussianity assumption to allow for weak non-Gaussianity, including three-point correlation functions of the foreground components. This extension enables the construction of an f_NL estimator directly in frequency space, effectively shifting bispectrum analysis to the component separation step.

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