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Statistical separation of dust and CIB with Wavelet Phase Harmonics

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Modelling the emission of Galactic dust is a main challenge for CMB polarization experiments. Current models based on Planck data suffer from the difficulty of separating dust emission from the Cosmic Infrared Background (CIB). We will show that the two components may be statistically separated using their radically different structure on the sky. Our approach uses a state-of-the-art model of the CIB and the Wavelet Phase Harmonics (WPH) statistics. We will present results obtained on mock data and Herschel observations in the far infrared at high Galactic latitude.

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