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Impact of polarised extragalactic sources on the measurement of CMB B-mode anisotropies

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Using state-of-the-art models of galaxy evolution for both radio and dusty galaxies and polarisation fractions as recently measured, we computed the B-mode power spectra of the three extragalactic foregrounds: radio source shot noise, dusty galaxy shot noise, and clustering. We will discuss their relative levels for different CMB experiments and will compare their amplitudes to that of the instrument noise and of the primordial B-mode signal.

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