

Abstract Submitted
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Searching for B-modes with QUIET: Latest results from the maximum-likelihood pipeline INGUNN KATHRINE WEHUS, University of Oslo, QUIET COLLABORATION — The polarisation of the cosmic microwave background (CMB) gives us unique information about the existence of primordial gravitational waves and the energy scale of inflation. QUIET is a ground-based CMB polarisation experiment, taking advantage of the world's most sensitive microwave radiometers, to search for B-modes in the CMB polarisation. The pilot phase data taking was finished in December 2010, consisting of around 250 000 diode hours of Q-band data at 43 GHz and about ten times more W-band data at 94 GHz. The data are analyzed by two independent pipelines, the maximum-likelihood (ML) pipeline and the pseudo- C_ℓ (PCL) pipeline. I will present the ML pipeline and our latest results.

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