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## Search for B-modes in CMB polarization - QUIET and other experiments

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B-modes in cosmic microwave background (CMB) polarization is smoking gun signature of inflationary universe. Inflationary universe predicts primordial gravitational waves, the primordial gravitational waves created degree-scale odd-parity components in CMB polarization pattern: B-modes. Therefore, the primary goal of CMB polarization studies in the next decade is detection of B-modes.

Many experiments are aiming to observe B-modes. It is very exciting period. I will review experimental approach with mainly focusing on QUIET experiment. Limits to date and future prospects will be also discussed from the experimental view points.

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**Classification de Session:** Neutrinos - Precision tests - Cosmology

**Classification de thématique:** Experiment