Poster Session #A
Laboratory tests of gravitation

A13

Tests of Lorentz invariance in the phonon sector using quartz BAW resonators

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Tests of Local Lorentz Invariance Violation (LIV) in the phonon sector was implemented using quartz bulk acoustic wave (BAW) oscillators. Frequency shifts of rotating room temperature oscillators with state-of-the-art low phase noise are compared. Results of the improved precision in the limit of standard model extension (SME) coefficients in the matter sector after 1.7 years' worth of data will be presented.