Poster Session #A
Laboratory tests of gravitation

A14

Some recent developments in 5th force searches

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We discuss recent work that has drawn attention to the significance of composition-dependent effects in 5th searches. It has been shown that such searches require data from experiments in which the acceleration differences of 3 or more independent pairs of test samples of varying composition are determined. We illustrate the implications of the above observation by reference to both the original Eotvos experiment, and to a recent analysis of an experiment contemporaneous with Eotvos, which suggests a similar effect.