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Particle Physics with AMO Methods

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The most precise measurement of the property of an elementary particle was measured, using AMO methods in a university laboratory, in order to test the most precise prediction of the Standard Model of particle physics. The incredible precision of the Standard Model's prediction of what is measured is arguably the Standard Model's greatest triumph. At the same time, the Standard Model predicts that no matter universe should result from a big bang. The Standard Model is thus the great triumph and the great frustration of modern physics. Recent progress in several low energy tests of the Standard Model and its basic symmetries will be discussed.

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