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Was Einstein Right? A Centennial Assessment[1]

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A century after Einstein's formulation of general relativity, a remarkably diverse set of precision experiments has established it as the "standard model" for gravitational physics. Yet it might not be the final word. We review the array of measurements that have verified general relativity in the laboratory, in the solar system and in binary pulsars. We then describe some of the opportunities and challenges involved in testing Einstein's great theory in strong-field regimes, in gravitational waves, and in cosmology.

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