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Clarifying the Hubble Constant Tension

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The Hubble constant estimated from the local Universe (via the Cepheid distance ladder) is in three-sigma tension with the value extrapolated from cosmic microwave background data assuming the standard cosmology. Whether this discrepancy represents physics beyond the Standard Model or deficiencies in our understanding of the data is the subject of intense debate. In this talk, I will review the community's attempts to explain and interpret the Hubble constant tension, clarifying the current picture using Bayesian probability theory. Finally, I will consider the potential for independent datasets - measurements of gravitational wave standard sirens in particular - to arbitrate the dispute.