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The Distance Network: a unified analysis of local H0 measurements

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The Distance Network provides a unified, statistically rigorous framework for a robust combined statistical analysis of a broad variety of local measurements of the Hubble constant. This approach provides full error propagation, accounting for commonalities between measurements, and statistical tests to identify possible outliers. We obtain an improved determination of the Hubble constant, with a baseline value of 73.50+/-0.81 km/s/Mpc, over 7 sigma from current Lambda-CDM based estimates. We test many variants that include, exclude, or modify various methods; all yield values between 72.5 and 74.0 km/s/Mpc. The algorithm and data are publically available and allow the inclusion of future measurements in this framework.

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Clasificación de la sesión : Afternoon Session (Tuesday)