

Local Distance Network

Conceptual overview of the Local Distance Network, a multi-route approach to deriving the Hubble constant in our universe. Included are a non-exhaustive collection of various methods for determining galactic distances and how these can connect the absolute scale established through geometric means to the Hubble constant H_0 . Background rectangles illustrate the positions of Rung 1, Rung 2 and Rung 3 in a traditional distance ladder from left to right. Graphic by Fabio Crameri, ISSI, based on original from H_0 DN Collaboration (2025).

The graphic was developed within the framework of the ISSI Workshop 'What's under the H0od? Towards Consensus on the local value of the Hubble Constant' at the International Space Science Institute (ISSI) in Bern, Switzerland.

The Scientific colour map 'hirta' is used to represent data accurately and to all readers.

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- Related reference: H_0 DN Collaboration, Casertano, S., Anand, G., Anderson, R. I., et al. (2025). The Local Distance Network: A community consensus report on the measurement of the Hubble constant at 1% precision. arXiv preprint arXiv:2510.23823. <https://doi.org/10.48550/arXiv.2510.23823>

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