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## Hubble tension or distance ladder crisis?

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I present an up-to-date compilation of published Hubble constant ( $H_0$ ) measurements that are independent of the CMB sound horizon scale. This compilation is split in two distinct groups: A. Distance Ladder Measurements sample comprising of 20 recent measurements, primarily from the past four years, utilizing various rung 2 calibrators and rung 3 cosmic distance indicators. B.One-Step Measurements sample including 33 measurements of  $H_0$  that are independent of both the CMB sound horizon scale and the distance ladder approach. These 33 measurements are derived from diverse probes such as Cosmic Chronometers, gammaray attenuation, strong lensing, megamasers etc. Statistical analysis reveals a significant distinction between the two samples. The distance ladder-based sample yields a best fit  $H_0 = 72.8 \pm 0.5$  km s<sup>-1</sup> Mpc<sup>-1</sup> with  $\chi^2/dof = 0.51$  indicating some correlations. The one-step measurements result in  $H_0 = 69.0 \pm 0.48$  km s<sup>-1</sup> Mpc<sup>-1</sup> with  $\chi^2/dof = 1.37$  indicating some internal tension. Possible local physics approaches that may explain this finding will be discussed.

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