

Special Issue

H_0 Tension: Observational Status, Theoretical Models, and the Road Ahead

Message from the Guest Editor

The discrepancy in the value of the Hubble parameter H_0 as obtained from Planck Cosmic Microwave Background (CMB)–Baryon Acoustic Oscillation (BAO) data ($H_0 = 67.4 \pm 0.5 \text{ km s}^{-1} \text{ Mpc}^{-1}$) and various independent local measurements ($H_0 = 74.03 \pm 1.42 \text{ km s}^{-1} \text{ Mpc}^{-1}$) has reached a level close to 6% and constitutes a major issue for modern cosmology, challenging the validity of the standard Λ CDM model. Replacing the Cepheid-based local distance ladder calibration by a Tip of the Red Giant Branch-calibration for Type Ia SNe has led to an intermediate value of H_0 , which is about 1.2% away from the Planck/CMB value and 1.7%, 1.3%, 1.2% from SHOES, HOLiCOW, and Megamaser Cosmology Project, respectively. We invite short or longer contributions from the leaders of this research subject on both the observational and the theoretical aspects. For more information, please visit: mdpi.com/si/50114.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

The multidisciplinary journal *Universe* is aiming to follow and, hopefully, to lead to the largest extent as possible the ever-self renovating threads which weave mathematical theories with our understanding of the magnificent natural world. On behalf of all the distinguished members of the Advisory and Editorial Boards, I extend my welcome to this journal and look forward to hearing from the interested contributors and learning about their valuable research.

Editor-in-Chief

Prof. Dr. Lorenzo Iorio
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