

Theoretical Insights into Star Formation: from the Early to the Present Day Universe

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Back where it all begins: the formation of the first stars and black holes

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The formation of the first stars and black holes marked a fundamental transition in cosmic history, from the cosmic dark ages to cosmic dawn. This event laid the foundation for the Universe as it appears today and shaped the evolution of the first galaxies and active galactic nuclei. The launch of JWST has enabled an unprecedented leap forward in exploring these distant cosmic epochs, raising new and compelling questions. In this talk, I will review our current theoretical understanding of the properties of the first stellar populations and black holes, discussing the many open questions and the prospects of future facilities in the electromagnetic and gravitational wave bands for providing a consistent picture of cosmic dawn.

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