

CEMP Stars as Probes of First-Star Nucleosynthesis, the IMF, and Galactic Assembly



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The First Stars: Our Emerging Theoretical Framework

Tuesday 10 September 2019 16:20 (30 minutes)

I will review the current standard model of how the first stars formed at the end of the cosmic dark ages, and how they impacted the subsequent history of the universe. The Population III formation process is intricately linked to the particle physics nature of dark matter, and can thus serve as an astrophysical laboratory to probe this elusive component of the cosmic matter-energy content. I will discuss select key observations that will soon test and constrain our theoretical ideas. Among them are campaigns to find and classify CEMP stars, providing important fossil evidence of the environment in which the first stars formed.

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Session Classification: THEORETICAL APPROACH TO CEMP STARS, FIRST STARS, AND FIRST GALAXIES