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## Chemically pristine stars in the Milky Way

*Thursday 19 September 2024 09:00 (25 minutes)*

The lowest metallicity stars that still exist today represent a window into the early Universe. Studying these stars gives us a local avenue to guide our understanding of star formation and supernova feedback in the early Universe, the early build-up of galaxies like our Milky Way, and the epoch of reionization.

In this talk I will review how we have become very efficient at finding these stars and what they have started to tell us about the early assembly phase of the Milky Way as well as the nature of some of its most intriguing stellar substructures. Moreover, I will highlight the bright future for this type of study in synergy with the upcoming massively multi-plexed stellar surveys such as WEAVE and 4MOST.

**Primary author:** STARKENBURG, Else (Kapteyn Astronomical Institute, University of Groningen)

**Presenter:** STARKENBURG, Else (Kapteyn Astronomical Institute, University of Groningen)

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