

The first chemical enrichment

Wednesday 17 May 2023 09:00 (30 minutes)

I will give a brief summary on the origin of elements using Galactic chemical evolution with Pop II and Pop I stars. Then I will discuss the Pop III nucleosynthesis using extremely metal-poor stars in the Milky Way. Namely, I will present our new analysis with machine learning to find “the first stars were not alone”. Finally, I will discuss the first chemical enrichment in the Universe, comparing our cosmological, chemodynamical simulations of galaxies to the observations such as with the James Webb Space Telescope.

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Session Classification: Day 3 morning