

Studying the impact of IMF on element yields of Population III stars

Tuesday, 4 December 2018 16:41 (1 minute)

The first stars in the Universe (Population III) are thought to be the responsible for synthesizing the first heavy elements, thereby creating the chemical conditions from which the second generation of stars has formed. One of the aims of current investigations is to better constraint the Initial Mass Function of Pop III stars from the observed abundance patterns of extremely metal poor stars, which is essential to model their influence on cosmic history. We present a set of predictions for the abundance ratios of C, O, N, Ba, Eu and CNO yields, assuming different types of IMFs. We will briefly discuss the parameter space that is consistent with the extremely metal poor stars known so far.

Affiliation

Universidad de Concepción

Talk/Poster

Poster

Primary authors: OLAVE, Camila (Universidad de Concepción); Dr SCHLEICHER, Dominik (Universidad de Concepción)

Presenter: OLAVE, Camila (Universidad de Concepción)

Session Classification: Poster Short Presentations