

## The oldest stars in the galactic halo: not so old

*Monday, 18 September 2017 16:15 (15 minutes)*

We present an updated isochrone age determination of a sub-sample of stars among the halo field stars nearest to the Sun. We use revised parallaxes and reddening estimations based on a detailed study of the local interstellar dust and confirmed by independent diagnostics. The age determination is based on isochrone fitting with a standard technique already used for halo globular clusters. Comparisons with previous investigations on the same sub-sample of stars are performed. We briefly discuss also the main possible shortcomings in the age determination of field stars that could affect the final results.

**Primary author:** ORTOLANI, Sergio (University of Padova)

**Co-authors:** PIETRINFERNI, Adriano (INAF Osservatorio Astronomico Teramo, Italy); SALARIS, Maurizio (Astrophysics Research Institute, Liverpool John Moores University, Liverpool, UK); CASSISI, Santi (INAF Osservatorio Astronomico di Teramo, Italy)

**Presenter:** ORTOLANI, Sergio (University of Padova)

**Session Classification:** Ages of the oldest stars and the connection to the halo and accretion