## The 13th Torino Workshop on AGB stars & the 3rd Perugia Workshop on Nuclear Astrophysics



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## **AGB Stars in Globular Clusters**

Tuesday, 21 June 2022 09:50 (25 minutes)

We discuss three fundamental questions in AGB star research that can be addressed by results obtained from globular clusters (GCs):

(1) Period-luminosity relations derived for the long-period variables in four GCs show a similar splitting into two sequences but also differ in the maximum luminosity reached.

(2) C/O ratios measured in O-rich AGB stars in NGC 1846 prove the increase of C/O

with luminosity, but also reveal exceptions to the general trend.

(3) AGB stars in 47 Tuc reveal a remarkable change of mid-infrared dust features as the stars evolve up the AGB.

These three results illustrate the promising possibilities of using a homogeneous and well-defined sample of AGB stars, as can be found in GCs, for solving major questions in AGB star research.

## Session

Stellar evolution

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