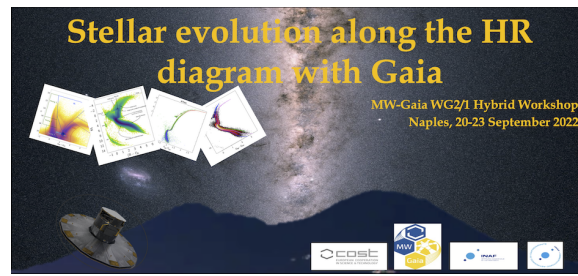


Stellar evolution along the HR diagram with Gaia



Contribution ID: 47

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Star clusters as laboratories for stellar evolution (Invited)

Tuesday, 20 September 2022 16:40 (30 minutes)

As groups of co-eval stars sharing the same initial chemical composition, star clusters are ideal laboratories to test stellar evolution models. The Gaia data has been especially useful in showing the limits and inconsistencies of pre-main-sequence star models and the resulting uncertainty in isochronal ages of young clusters. In this talk I will review results obtained with Gaia and combinations of asteroseismology and ground-based spectroscopy of cluster stars to constrain the physical processes governing the evolution of stars.

Presenter: CANTAT-GAUDIN, T.

Session Classification: Overview on Gaia data/products and their use