

The Milky Way Revealed by Gaia: The Next Frontier



Contribution ID: 86

Type: **Contributed talk**

The bright future of open clusters

Wednesday, 6 September 2023 09:00 (15 minutes)

Open clusters are an ideal laboratory to understand star formation and evolution. Open clusters provide an important contribution to the overall mass budget and stellar population properties of the disk, making their study a crucial element in the understanding of the processes that led to the formation of the disk in the Milky Way and in general in spiral galaxies. Gaia Data Releases have brought an unprecedented renaissance in the open cluster exploration making them an increasingly central topic. Further development in the field is expected from the next Gaia Data Releases and from the upcoming spectroscopic surveys, WEAVE@WHT and 4MOST@VISTA where dedicated surveys will provide large homogenous databases of chemical abundances and radial velocities. In this talk we will discuss what is expected from the upcoming Gaia Data Releases. We will present the open cluster surveys with WEAVE and 4MOST, discussing the synergies and the impact of the different observational strategies on the science cases.

Primary author: VALLENARI, Antonella (INAF, Padova)

Presenter: VALLENARI, Antonella (INAF, Padova)

Session Classification: WG2. The Life and Death of Stars (III). Chair: André Moithino.