

From star clusters to field populations: survived, destroyed and migrated clusters



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Stellar Clusters in 4MOST

I will discuss the upcoming survey that will make use of 4MOST at the VISTA ESO telescope. By exploiting the characteristics of such instrument, the survey will provide the most comprehensive characterization of the chemistry and kinematics of stellar clusters collected to date. It will target essentially all the Galactic Globular and Open Clusters and Star Forming Regions accessible 4MOST, for a total of ~75K stars in LRS and ~50K in HRS.

This will allow: to shed light on how clusters form, evolve, dissolve, and populate the Milky Way; calibrate complex physics that affect stellar evolution, on which our ability to measure ages ultimately stands; measure the contribution of star clusters to the formation and evolution of the individual Galactic components with unparalleled statistics.

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