

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



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High resolution spectroscopy of open clusters: results from the SPA LP @TNG

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To study stellar clusters and be able to effectively use them to understand how stars and clusters form and evolve and to link this to the Galactic evolution, we need not only large samples, such as those provided by the spectroscopic surveys, but also high resolution and detailed analysis.

As part of the SPA (Stellar Population Astrophysics) Large Programme at the TNG, we observed a large sample of open clusters with GIARPS (GIANO+HARPS-N), obtaining a few to a few tens of stars in each of them. I will present the aims, some highlights of our work, some work in progress and will underline how such project may be very useful also in a large-survey era.

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