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Gaia chemical abundances from the Radial Velocity Spectrograph (Invited)

Tuesday, 20 September 2022 11:10 (30 minutes)

The chemo-physical parametrization of stellar spectra is essential to understand the nature and evolution of stars and of Galactic stellar populations.

The Gaia third data release contains the parametrization of the Radial Velocity Spectrometer data, performed by the General Stellar Parametrizer-spectroscopy, GSP-Spec, module.

With about 5.6 million stars, the Gaia DR3 GSP-Spec all-sky catalogue is the largest compilation of stellar chemo-physical parameters ever published and the first one from space data.

The homogeneity and quality of the estimated parameters enables chemo-dynamical studies of Galactic stellar populations and clear constraints to stellar evolution models. In this talk, the DR3 GSPspec catalogue will be presented, and several examples concerning its application to stellar evolution studies will be shown.

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