

# The richness of Gaia Data Release 3

Plenary Session

 Tuesday, June 28th 2022  16:00 - 16:30  AUDITORIUM 1

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No doubt the ESA's Gaia space mission is revolutionizing all branches of astrophysics from our Galaxy and its stars to the Solar System, the neighbouring galaxies and beyond. The full Data Release 3, recently made public, includes for the first time several new types of data such as low and intermediate resolution spectra, reflectance spectra for solar system objects, data for non-single stars and morphological characterization of QSO host and galaxies. The release also substantially enlarges the previous ones in terms of radial velocities, variability classification and light curves, astrophysical parameters and orbits of solar system bodies. This huge volume (1.8 million sources) of diverse and precise data is a new treasure in the hands of the astrophysicists all around the world. The talk will summarize the content of the data release and will provide hints of the performances and science potential demonstrated in the performance verification papers of the Data Processing and Analysis Consortium.