



Terminverschiebung | Change of Date

Das Institut für Physik

Institutsbereich Geophysik, Astrophysik und Meteorologie

lädt zu folgendem Vortrag

im Rahmen des **Astrophysikalischen Kolloquiums** ein:

Gaia Data Release 3: astrophysical parameters and a focus on Sun-like stars.

Dr. Orlagh Creevey

Observatoire de la Côte d'Azur: Nice, Provence-Alpes-Côte d'Azur, FR

Gaia Data Release 3 (13 June 2022) contains astrophysical parameters for up to 1.5 billion sources derived from the low-resolution BP and RP prism spectra, the high-resolution RVS spectra, photometry, and astrometry.

These are only one part of the many exciting new data products in Gaia DR3, and they include object classifications (star, galaxy, stellar spectral type,...), unresolved galaxies and quasar redshifts (~6 million), outlier objects, interstellar medium characterization (extinction and DIBs), and spectroscopic and evolutionary parameters (~470 million) for a large variety of stellar types from ultra-cool dwarfs to hot OB stars. In this talk, I will present an overview of the astrophysical parameter content of Gaia DR3 that was derived using the Astrophysical Parameters Inference System (Apsis) software (Creevey et al. 2022). I will first give a brief description of the data, models, and methods that were employed, and then I will discuss the stellar parameter content of this release. Finally, I will focus on stars like the Sun by showing some recent highlights and discussing possibilities of further exploitation.

Time: **Wednesday, November 30, 2022, 17:00 CET (st!)**

Meeting: <https://unigraz.webex.com/meet/paul.beck>

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