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ICCUB Advanced Technology Unit (software & data division): present, future and synergies of the Gaia catalogue

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The ICCUB Advanced Technology Unit (ATU) is contributing to the software development and data processing of several projects of the Institute, including PLATO, PhotSat, LISA, and especially Gaia, as well as its proposed successor (GaiaNIR). In the first part of this talk, I will do the usual recap of software & data activities being carried out by the ATU team. Afterwards, I will focus on the current status of Gaia, for which we are intensively working on its fourth data release (planned for December this year). As an appetizer of its contents, publication approach and envisaged tools for the community, and to showcase its possible synergies, I will present one of our recent developments - the GJDR3Plus catalogue, joining Gaia DR3 and J-PLUS DR3 data into a single, convenient table downloadable as Parquet files. This synergetic catalogue provides astrometry and exquisite multi-band photometry for galactic and extra-galactic sources. An experimental on-line service with notebooks and a fast database is also available, the capabilities of which will be shown in this talk.

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