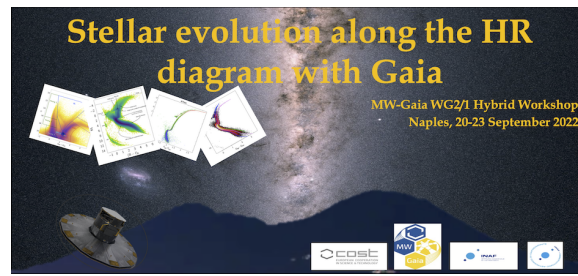


## Stellar evolution along the HR diagram with Gaia



Contribution ID: 50

Type: not specified

## The galaxy in your preferred colour: synthetic photometry from Gaia XP spectra (Invited)

*Wednesday, 21 September 2022 09:00 (30 minutes)*

The release of BP/RP spectrophotometry for 220 M stars in Gaia DR3 allows for the first time to obtain synthetic photometry in any passband enclosed in the range 330-1050 nm.

This photometry is (a) obtained from data acquired beyond the Earth's atmosphere, (b) all sky, (c) directly tied to fluxes in physical units, (d) precise to the limits enforced by the internal calibration of Gaia spectrophotometry. I summarise the properties and limitation of synthetic photometry from DR3 data, briefly discussing future developments and showing some examples of application.

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**Session Classification:** Stellar evolution and pulsation models