



Contribution ID: 75

Type: **Contributed e-poster**

Potential of Gaia BP/RP spectra and LDS sky surveys for study of high z Universe (poster pitch)

Tuesday, 5 September 2023 11:42 (2 minutes)

Gaia Blue (BP) and Red (RP) Photometer low-resolution spectral data is one of the exciting new products in Gaia Data Release 3 (Gaia DR3). However, analogous LDS (low dispersive spectral data) data also available in numerous historical photographic sky surveys (access after digitization).

My estimate is more than 100 mil LDS star spectra covering time period of more than 60 years in these databases. These LDS photographic sky surveys have the potential of adding historical epochs to Gaia LDS spectra. This may allow to study prominent spectral variations with time ...field so far little exploited. Both Gaia BP/RP and archival LDS data have excellent potential for recent astrophysics e.g searches for high z objects and optical counterparts of gamma ray bursts (GRBs).

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Session Classification: WG4 (II) & WG2: The life and death of stars (I). Chair: Mercè Romero