

Templates for photometric redshifts from FORS2 data

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Following up on the work performed by J. Cohen-Tanugi, E. Nuss, E. Giraud and R. Ansari with FORS2 data, which aims to provide a new set of templates for photometric redshifts estimation in large surveys like LSST, this work focuses on the ways to select and prepare spectral templates from the dataset derived from observations.

Several data reduction methods have been used and photo-z estimates using LEPHARE++ on COSMOS2020 data were performed as a benchmark to conclude that spectra obtained through stellar population synthesis, based on FORS2 observations, can be used as templates for photo-z codes with the appropriate processing. Finer analysis of these spectra can also help understanding the physical features that are key to accurate photo-z estimation, thus paving the way to a better use of templates-based photo-z codes.

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