

**Science case: RR Lyrae stars and Cepheids
(variability and census)**

Members: Róbert Szabó + ...

DDF and minisurvey proposal planning

GOAL: to identify time cadences and sky locations to optimize classical pulsating variable research

MILESTONES for time cadence:

- collection and assembly of representative optical light curves from various ground-based and space-borne sources (Kepler, K2, CoRoT, MOST, ASSN, OGLE, Catalina Sky Survey, Pan-STARRS, etc.)
- time series analysis to identify variability characteristics
- simulations of different time sampling effects and scenarios

MILESTONES for sky locations:

- definition of diagnostic tools
- tests in specific sky areas (Magellanic Clouds, Galactic Bulge, etc.)

DELIVERABLES: representative light curves, simulations, inputs for the DDF/minisurvey proposal planning: where, how often, which bands