Science case: blazars

(variability and census)

Members: Claudia M. Raiteri, Barbara Balmaverde, Maria Isabel Carnerero, Filippo D'Ammando, Chiara Righi

TF1: DDF and minisurvey proposal planning

GOAL: identify time cadences and sky locations to optimize blazar research, by following the unpredictable blazar variability with the best possible sampling and by looking for still undected objects to define the blazar population down to the lowest luminosities

MILESTONES for time cadence:

- collection and assembly of blazar optical light curves from various sources (WEBT, Steward, SMARTS,...)
- time series analysis to identify variability time scales
- simulations of different time sampling effects

MILESTONES for sky locations:

- exploration of catalogs/surveys that can help identify new blazars (FIRST,WISE,...)
- definition of diagnostic tools
- tests in specific sky areas (COSMOS)

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