

Proponente: Giuseppe Longo (longo@na.infn.it) (In collaboration with OAC-INAF)

Titolo: “Automatic classification of transients in panchromatic sky surveys”

Descrizione: Synoptic (i.e. multi-epoch and panchromatic) sky surveys allow to identify millions of variable sources (i.e. objects whose luminosity changes in time). These objects need to be classified in real time and with great accuracy in order to provide a preliminary classification and therefore identify potentially interesting objects. This research will be in the framework of many ongoing (e.g. KIDS, VST VOICE etc.) and planned (i.e. Euclid, LSST, etc.) surveys and aims at: i) defining the optimal tools for classification; ii) to identify rare and unknown objects on the basis of their variability.