

SuperBAM: characterization of Supernova transients through Bayesian Analytic Modeling

The launch of the Legacy Survey of Space and Time (LSST) is going to open the possibility to perform statistical studies on the physical properties of Supernova transients. These studies need sufficiently fast and accurate procedures for the characterization of these events. In this framework, we have developed a Bayesian Analytic Modeling procedure, which is able to simulate Supernovae Light Curves and infer the main physical parameters describing their progenitors at the explosion. This new procedure as well as its validation will be presented.

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