

Predictions of Pop III Gamma Ray Bursts rates, based on Semi-Analytic galaxy formation models

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Abstract

Using results from a semi-analytic galaxy formation model (Guo et al 2011) applied on the Millennium Simulations merger trees, we make predictions about Gamma Ray Bursts rates as a function of cosmological time. We also made some spatial correlations against WISE deep IR images in order to find GRBs hosts galaxies. This project is aimed to check the possibility of GRBs from popIII stars even at low redshifts and develop possible identification criteria.