

GAMMA RAY BURSTS: A MODEL

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In this paper we present a simple model which can give us basic parameters of Gamma-ray bursts in the second phase. The model is based on the interactions of ultra-relativistic shock waves, where the slower shock is caught by the faster one. We specified basic equation for shock wave evolution and used the gaussian function for density disturbance to simulate another, the slower, shock. By using this method, we can change the width and height of gaussian function, as well as, the other parameters of the incoming faster shock wave, and fit the light and spectral curves. We also take that radiation mechanism is mostly based on the synchrotron emission ignoring the inverse Compton radiation. Moreover, we fitted several gamma ray light curves in order to demonstrate the ability of the model.