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GRB 210306A: A Multi Wavelength Analysis

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Abstract

Gamma Ray Bursts are short and interest bursts of keV to MeV range Gamma radiation originating in outer space. GRB 210306A was a long duration Gamma ray burst which triggered NASA for me and Swift satellite on 6th March 2021. In this project I have analysed the GRB 210306A in Gamma, x-ray and optical wavelength using data from NASA Fermi and Swift telescope. Delightful should multiple complex peaks in the prompt emission profile. GRB 210306A was found to have a T₉₀ duration of 9.5 seconds. That that time integrated and time results spectrum was fit using the band function and optical thin thermal bremsstrahlung spectrum. The exact afterglow was fit by 4 segment broken power law and the possibility of jet break associated with the Gamma ray was investigated.