

Physics of Gamma-Ray Bursts

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Abstract content

Summary

I will review the models of gamma-ray bursts and confront them with the multiwavelength data. In particular, I will review how Swift and Fermi observations have revolutionized our view on GRBs, afterglows, and their progenitor systems. The recent Fermi data suggest diverse physical compositions of GRBs, ranging from baryon dominated fireballs to Poynting flux dominated outflows. The implications of these new observational breakthroughs on the prospects of directly detecting high-energy neutrinos and gravitational waves from GRBs will be discussed.

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