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# Understanding Progenitors Gamma Ray Bursts Joshua Bloom

**toward an understanding of the progenitors of gamma-ray bursts** - toward an understanding of the progenitors of gamma-ray bursts by joshua simon bloom abstract the various possibilities for the origin ("progenitors") of gamma-ray bursts (grbs) manifest in differing observable properties. through deep spectroscopic and high-resolution imaging observations of some **gamma-ray burst progenitors - home - springer** - gamma-ray burst progenitors 35 fig. 1 high energy phase space for gamma-ray bursts, adapted from levan et al. (2014a). the duration of the bursts is shown, compared to their mean luminosity over that duration. this demonstrates that the majority of **constraining the progenitor and central engine of gamma ...** - constraining the progenitor and central engine of gamma-ray bursts with observational data by houjun lu" dr. bing zhang, examination committee chair professor of physics university of nevada, las vegas gamma-ray bursts (grbs) are extremely energetic explosions at cosmological distances. **arxiv:1611.03091v1 [astro-ph.he] 9 nov 2016 seoul 151-742 ...** - gamma-ray burst progenitors 3 in this review, we discuss progress towards grb progenitors that can be made from three distinct strands. the rst is direct observations of the grbs and the host galaxies themselves. from these observations, we can determine the nature of any additional sources of energy in the grb, be they supernovae **gamma-rayburstsandtheir useascosmicprobes - arxiv** - the grb prompt gamma-ray emission is highly variable, giving rise to multi-peaked light curves with a range of delays between each new pulse of radiation. these pulses frequently overlap such that they are difficult to isolate, but they can also be separated by long gaps in the  $\gamma$ -ray emission **the collimation and energetics of fermi-lat gamma-ray bursts** - the collimation and energetics of fermi-lat gamma-ray bursts s. bradley cenko, fiona harrison, dale frail, poonam chandra, josh bloom, derek fox, nat butler, eran ofek, shri kulkarni, bethany cobb, dan perley, alex filippenko. ... to our understanding of progenitors, **the environments around long-duration gamma-ray burst ...** - arxiv:astro-ph/0604432v1 20 apr 2006 the environments around long-duration gamma-ray burst progenitors christopher l. fryer<sup>1,2</sup>, gabriel rockefeller<sup>1,2</sup>, and patrick a. young<sup>1,2</sup> abstract gamma-ray burst (grb) afterglow observations have allowed us to signifi- **the environment of short duration gamma-ray bursts** - the observed offset distribution of gamma-ray bursts from their host galaxies: a robust clue to the nature of progenitors. (2002) • boylan, c. short gamma-ray bursts: formation and offsets (2014) • clark, j. prospects for joint gravitational wave and short gamma-ray burst observations. (2015) **the swift gamma-ray burst mission - nasa** - the swift gamma-ray burst mission n. gehrels', g chin~arini\*~, p. giommi<sup>4</sup>, k. o. ... are the key to our further understanding of grbs. swift is designed specifically to study ... what are the progenitors of grbs? are there different classes of bursts with unique physical **the swift gamma-ray burst mission - iopscience** - gamma-ray bursts (grbs) were discovered in the late 1960s in data from the vela satellites (klebesadel et al. 1973). tremendous progress has been made in their understanding over the past 30 years and particularly since 1997. we know that they are bright (approximately a few photons cm<sup>2</sup> s<sup>-1</sup> flux in the 50–300 keV band) flashes of gamma ... **are all short-hard gamma-ray bursts produced from mergers ...** - the origin and progenitors of short-hard gamma-ray bursts (grbs) remain a puzzle and a highly debated topic. recent swiftobservations suggest that these grbs may be related to catastrophic explosions in degenerate compact stars, denoted as "type i" grbs. the most popular models include the merger of two compact stellar objects

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