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Gravitational waves and GRBs

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“Gamma-ray bursts are short-lasting MeV transients of extragalactic origin. In the last decades we have learnt about two channels of GRB production: collapsars and compact binary coalescence. The merger-driven GRBs are also accompanied with gravitational waves (GWs), thus they offer a unique laboratory for high energy astrophysics, cosmology and fundamental physics. In this talk I will discuss the current status of GRB observations and open problems. Then I will talk about the prospects of joint GW and GRB detection in light of next generation gravitational wave interferometers and upcoming electromagnetic facilities. “

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