

## [구GW-05] Gravitational Wave Search for GRBs

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GRBs are the most energetic and very frequent electromagnetic events among known astronomical phenomena in the universe. The progenitor of GRBs is believed as one of most promising sources of gravitational waves. Thus, detection of gravitational wave signals associated with GRBs will be a fascinating issue. In this presentation, we describe how we search gravitational waves related to GRBs by using LIGO and Virgo data.

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## [구GW-06] Identification of Electromagnetic Signal from GW Sources

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A few years from now, gravitational wave (GW) detectors of LIGO and VIRGO consortiums are expected to reach the sensitivity necessary to detect GW signals from astronomical sources. Identification of the counterparts to the GW sources in electromagnetic wave is very important, since the localization of the GW signals is going to be very poor ( $\sim 1000 \text{ deg}^2$ ) for the first detections and the nature of the GW-emitting sources will be uncertain with the GW detection only. In this talk, we will discuss possible astronomical sources that could be responsible for the first GW signals, and outline our current efforts to do follow-up observation of GW sources in collaboration with LIGO/VIRGO groups.