

# Cosmic Magnetism in Voids and Filaments



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## Detectability of intergalactic magnetic field signatures from gamma-ray bursts with IACTs

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Intergalactic magnetic field (IGMF) is thought to be the weakest magnetic field present in the voids of large-scale structure in the Universe. Recently, Cherenkov telescopes have developed new measurement techniques to probe the presence and the properties of IGMF with gamma-ray observations. Gamma-ray bursts have been proposed as interesting targets for the detection of a secondary “pair echo” emission. In this contribution we will investigate the feasibility of the detection of this secondary cascade emission from low-redshift GRBs for Cherenkov telescopes, taking GRB190114C properties as a proxy to identify future interesting events.

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