

GRBs and Core Collapse Supernovae: Prospects for LIGO-Virgo/KAGRA searches for long gravitational wave bursts

Wednesday, 29 January 2014 15:00 (1 hour)

Abstract: Electromagnetic priors can greatly aid searches for gravitational waves with the advanced detectors LIGO-Virgo and KAGRA. Of particular interest are GRBs and core-collapse SNe.

We discuss some recent phenomenology that points to inner engines comprising black holes rather than (proto-)neutron stars. It points to a new class of long duration gravitational wave bursts from turbulent matter around rotating black holes of interest to searches in the Local Universe within ~ 35 Mpc.

Presenter: Prof. VAN PUTTEN, Maurice (Università di Seul (Sud Korea))