

# Analytic gravitational wave spectrum from bubble collisions

*Thursday, July 14, 2016 5:00 PM (30 minutes)*

We consider gravitational wave production by bubble collisions during a cosmological first-order phase transition. Based on so-called thin-wall and envelope approximations, we estimate gravitational wave spectrum by an analytic way. Our estimation is based on the observation that the two-point correlator of the energy-momentum tensor can be expressed analytically under these assumptions.

**Presenter:** TAKIMOTO, Masahiro (KEK)

**Session Classification:** Parallel Track 1