

# Thermal Gravitational Contribution to Dark Matter Production

*Tuesday, 13 February 2018 16:30 (20 minutes)*

This talk will be based on 1708.05138 and 1604.04701, We investigate the particle production from thermal gravitational annihilation in the very early universe, which is an important contribution for particles that might not be in thermal equilibrium or/and might only have gravitational interaction, such as dark matter. We give the relevant analytical formulas for spin 0, 1/2 and 1 particles and discuss some effects from inflation.

**Presenter:** TANG, Yong (University of Tokyo)

**Session Classification:** Short Talks