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## Understanding experimentally-observed fluctuations

*Thursday 2 June 2016 12:00 (30 minutes)*

Fluctuation observables in relativistic heavy ion collisions measured by event-by-event analysis are important observables for the study of thermodynamics in primordial stage. In this talk, I will discuss some problems which have to be considered seriously when one compares the experimental results on fluctuations with theoretical study. In particular, I will discuss (1) non-equilibrium property of fluctuations, (2) finite-volume effects, and (3) effects of non-perfect efficiency of detectors on the measurement of fluctuations. Approaches to resolving these problems will also be discussed.

**Author:** KITAZAWA, Masakiyo (Osaka University)

**Presenter:** KITAZAWA, Masakiyo (Osaka University)

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