

# **An Approach to Quantum Gravity – Asymptotic Safety –**

*Tuesday, 3 December 2019 13:30 (40 minutes)*

We explain an approach to formulate quantum gravity within the framework of local quantum field theory using functional renormalization group. called asymptotic safety. Starting how the approach is formulated, we introduce the notion of critical surface and discuss its dimensionality. Several physical aspects of this approach are also discussed including quantum effective action derived from renormalization group equation.

**Presenter:** Prof. OHTA, Nobuyoshi

**Session Classification:** Invited talks