

# High Energy Physics Seminar

## Department of Physics

**Date: Thursday, October 30, 2014**

***“Review on Dynamical Renormalization Group”***

**Dr. Yuya Tanizaki**

UIC

**Abstract:** I will give a brief review on application of renormalization group idea to solve nonlinear differential equations. This method can be applied to real-time quantum phenomena, and, in this seminar, its application to transport phenomena in QED plasma will be considered based on the following paper:

“Dynamical renormalization group approach to transport in ultrarelativistic plasmas: the electric conductivity in high temperature QED”

Authors: D. Boyanovsky, H. J. de Vega, and S.-Y. Wang,  
Journal: Phys.Rev. D67 (2003) 065022

**This Seminar will be held at 1:00pm in 2214 SES**

**UIC Physics Department/SES is located at 845 W. Taylor Street, Chicago, IL, 60607**