Name: Reika Fukuizumi

Title: Smoluchowski-Kramers approximation in the stochastic nonlinear wave equation

Abstract:
In this talk, we address the non relativistic limit (in another word, Smoluchowski-Kramers approximation) and ultra relativistic limit in the two-dimensional nonlinear damped Klein-Gordon equation driven by a space-time white noise on the torus. This is a joint work with Takahisa Inui (Osaka University) and Masato Hoshino (Osaka University).