

Talk 17: Aurélien Deya (Université de Lorraine)

Title: A SPDE Model: The Φ_3^4 Equation Associated with the Harmonic Oscillator

Abstract. I will present the results of a recent article written in collaboration with Reika Fukuizumi (Tokyo) and Laurent Thomann (Nancy), concerning the Φ_3^4 equation associated with the harmonic oscillator. We shall begin by discussing the background and physical motivations behind this model, before detailing the various steps of the pathwise approach used in the analysis.