

Riccardo Martini (Friedrich Schiller University Jena)

Title: "Universal properties in quantum gravity"

I will present a study of the universality classes of quantum gravity in the context of the Asymptotic Safety scenario. In particular I will study the analytical extension of two dimensional gravity far from its upper critical dimension. Since the physically interesting case is the analytical continuation to $d=4$, I will focus the analysis on the correction to the critical exponents due to higher order derivative operators.