

Seminar: "Geometry&Physics", DFT (IFIN-HH)
([Seminar Homepage](#)) ([Indico Page](#))

Location: DFT seminar room, IFIN-HH, Magurele

Date: Friday, June 30, 2017, 11:00 AM

Title: **Two-field cosmological models and the uniformization theorem**

Speaker: **Dr. Mirela Babalic** (IBS-CGP & DFT IFIN-HH)

Abstract: "We discuss a wide class of two-field cosmological models derived from non-linear sigma models whose target space is a non-compact and geometrically-finite hyperbolic surface. These provide a wide generalization of so-called "alpha-attractor models" and can be studied using uniformization theory. We discuss an expansion procedure for globally well-behaved scalar potentials and illustrate cosmological dynamics in such models for the case of elementary hyperbolic surfaces and for the case of the hyperbolic triply-punctured sphere."