Seminar: "Geometry&Physics", DFT (IFIN-HH)

(Seminar Homepage) (Indico Page)

Location: DFT seminar room, IFIN-HH, Magurele

Date: Friday, July 21, 2017, 11:30 AM

$\it Title:$ A differential model for B-type Landau-Ginzburg theories

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

Abstract: "We describe a mathematically rigorous differential model for B-type open-closed topological Landau-Ginzburg theories defined by a pair (X,W), where X is a non-compact Kahlerian manifold with holomorphically trivial canonical line bundle and W is a complex-valued holomorphic function defined on X and whose critical locus is compact but need not consist of isolated points. In this generality, we give rigorous constructions of the topological D-brane category, bulk algebra, bulk-boundary and boundary-bulk maps as well as of the bulk and boundary topological traces. We also show how this construction specializes to the case when X is Stein and W has finite critical set, in which case one recovers a simpler mathematical model."