Mathematical Physics
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I N V I T A T I O N

as part of the Mathematical Physics Theory Seminar

to the talk by

Fabio MARINO

(University of Vienna)

on

"Mirror Symmetry and the Dualization Algorithm"

Abstract:

Mirror symmetry is an IR duality enjoyed by some supersymmetric QFTs realized in type IIB superstring theory and, as such, it is usually presented at the branes level. However, there is a procedure known as the "dualization algorithm" which allows us to implement mirror symmetry directly at the QFT level.

In this talk I will try to illustrate where does this technique come from, how does it work and which are the outstanding results it can provide. In particular, I will first put it to work on the simple example provided by good SQCD, in order to get some intuition, and then to the quite intricate case of the so called "bad" SQCD. Here we will se arising a very interesting feature: bad theories have a partition function which behaves as a sum of distribution rather than a regular function of the deformation parameters.

Time: Tuesday, 22 October 2024, 2:00 p.m.

Location: Erwin-Schrödinger Lecture Hall, 1090 Vienna, Boltzmanngasse 5, 5th floor

sgd. S. Fredenhagen, M. Sperling