ESI Erwin Schrödinger International Institute for Mathematical Physics

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DVR 0065528

Seminar

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Symmetries of N=(4,4) non-linear sigma models

Wednesday, June 25, 2014

at 14:15 h

ESI, Boltzmann Lecture Hall

Abstract: Two-dimensional conformal field theories with N=(4,4) superconformal symmetry and central charge 6 arise in compactifications of type II superstrings to six (or less) spacetime dimensions with 16 spacetime supersymmetries. There are two (known) classes of such conformal field theories, namely supersymmetric non-linear sigma models on a K3 surface or on a torus of real dimension four. I will discuss the main properties of these two classes of models and, in particular, the classification of the groups of symmetries that fix the N=(4,4) superconformal algebra.

N. Carqueville

June 23, 2014