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7. MATEMATICKÉ KOLOKVIUM

Prof. Igor Kříž (Univ. Michigan)

Modular functors in analysis, geometry and mathematical physics

čtvrtek 15. srpna 2013, 14:00

posluchárna K1

budova MFF UK, Sokolovská 83, Praha 8

Abstract:

The local data for a CFT in dimension d allow to assign to each d-dimensional cobordism Σ a vector space of correlators: the functions on the space of conformal structures on Σ that have the correct behaviour to qualify as the (chiral-) correlators of a CFT. This is called a space of conformal blocks associated to Σ. This assignment is functorial under diffeomorphisms and the corresponding functor is called a modular functor.

We present a definition of a (super)-modular functor which includes certain interesting cases that previous definitions do not allow. We also introduce a notion of topological twisting of a modular functor, and discuss its realization by a 2-dimensional topological field theory valued in twisted K-modules.