INSTITUTUL DE MATEMATICA "SIMION STOILOW" AL ACADEMIEI ROMANE

Seminarul de Geometrie Algebrica

Mathematical aspects of field theories with defects

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Abstract:*The mathematically best understood variant of quantum field theories are topological field theories. These can be described by functors from a geometric category of bordisms to the category of vector spaces. Allowing the bordisms to be stratified leads to interesting new examples and to higher categorical structures. I will discuss this in the context of two- and three-dimensional topological field theories.*