Institut Henri Poincaré

11 rue Pierre et Marie Curie, 75231 Paris cedex 05

String Theory in Greater Paris

Rencontres Théoriciennes

"Supergravité, théorie des cordes et théorie M"

Jeudi 29 Fevrier 2024, 10:00

Sakura Schafer-Nameki

Oxford

Categorical Symmetries and Phases

Global symmetries can highly constrain the IR or QFTs. With the advent of non- invertible or categorical symmetries, a natural question is how these can characterize the IR phases – both gapped and gapless. I will survey the so- called Symmetry Topological Field Theory (SymTFT) approach to answering this question. The proposal is applicable in general dimension, it provides a systematic classification of the gapped phases, as well as the order parameters – thus generalizing the standard Landau paradigm. I will illustrate this approach in 1+1d theories with fusion category symmetries, describing all gapped phases with categorical symmetries and phase transitions between them.

Institut Henri Poincaré, salle 314, 3ème étage

Retrouvez les activités de la communauté parisienne de théorie des cordes sur
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