

**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, 3<sup>ème</sup> étage**

Retrouvez les activités de la communauté parisienne de théorie des cordes sur  
<http://string.lpthe.jussieu.fr>  
La liste de tous les séminaires en région parisienne est disponible sur  
<http://string.lpthe.jussieu.fr/semparis>