

**ESI - SIMONS JUNIOR PROFESSOR
SEMINAR
Winter Term 2017/18**

The Erwin Schrödinger International Institute for Mathematics and Physics (ESI) of the University of Vienna is pleased to offer the following Seminar held by Simons Junior Professor Nils Carqueville, Professor Stefan Fredenhagen and Professor Frank Verstraete during the Winter Term of 2017/18:

Topological Phases of Matter and Topological Quantum Field Theory

Nils Carqueville (U Vienna), **Stefan Fredenhagen** (U Vienna) and **Frank Verstraete** (U Vienna)

Seminar (250166 SE): Wednesday, 11:00 - 12:30

Begin: October 4, 2017

Venue: ESI, Schrödinger Lecture Hall

Abstract: This seminar aims to provide an introduction into the recent interactions between the theory of condensed matter and topological quantum field theory. On the mathematical side we will cover basic notions and results in TQFT and discuss examples in two and three spacetime dimensions. On the physical side, topological phases of matter, their partial classification, and tensor networks will be among the main topics. Some background on at least one of these two sides will be required to participate in the seminar.

For more information please visit:

<https://ufind.univie.ac.at/en/course.html?lv=250166&semester=2017W>

Christoph Dellago
Director