Contribution ID: **60** Type: **not specified**

Quasi-disorder Effects in Topological Systems

Friday, 29 January 2021 10:10 (10 minutes)

The search and study of topological properties of matter has proved fruitful in recent years in research in materials science and condensed matter physics. Superconductors have long been a focus of interest due to their promising applications. Superconductors with intrinsic topological properties, in particular, have recently attracted theoretical and experimental interest due to phenomena associated with the appearance of surface/edge Majorana modes. One of the question that arises is how it is possible to disturb the exotic phases that have been observed in these materials with non-trivial characteristics, and what further effects may arise from perturbing topological systems.
The main goal of this work is to study quantum topological systems, in particular topological superconductors, and how topological phases and modes are affected in the presence of quasi-disorder.

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