

Higher groups and topological phases of matter

Tuesday, 15 December 2020 17:00 (30 minutes)

I will describe how symmetry structures appearing in quantum many-body systems can be understood within the framework of fusion categories. Quantum systems with “higher symmetry” structures naturally appear by generalising or weakening certain axioms of these fusion categories. I will touch upon various topological aspects of higher group symmetries such as symmetry protected topological phases, anomalies and topological gauge theories.

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Session Classification: Invited talks