



THE CHINESE UNIVERSITY OF HONG KONG
Department of Physics
SEMINAR

**Non-Abelian Quantum Hall States:
A 26 Years Journey from Theoretic Proposal to
Experimental Confirmation**

by

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Place: Rm G25, Science Centre North Block, CUHK

ALL INTERESTED ARE WELCOME

Abstract

Non-Abelian quantum Hall states was proposed in 1991. It is a new class of topological order which host quasiparticle with non-abelian statistics that can be use to perform topological quantum computation. I will describe the parton theory of non-Abelian quantum Hall states and their edge excitations. A smoking-gun character of non-abelian statistics was recently observed in an experiment.