

Anyons and Edge Transport in Quantum Hall Systems

Tuesday 1 October 2024 14:00 (1 hour)

Recent experiments verified abelian anyonic statistics of quasiparticles in Laughlin's fractional quantum Hall state of Landau level filling $\nu = 1/3$, about 40 years after the theoretical proposal in the 1980s. The experiments were achieved due to the progress in the long-standing theoretical and experimental research on edge transport in quantum Hall systems. In this talk, I will introduce some of our experiments and discuss recent developments in anyons and edge-transport research.

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