

Abstract for an Invited Paper  
for the MAR10 Meeting of  
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**Transport and thermodynamic signatures of non-abelian quantum Hall states<sup>1</sup>**

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In this talk I will review several proposed experiments aimed at identifying non-abelian quantum Hall states, particularly the  $\nu=5/2$ . These proposed experiments will include the temperature dependence of the compressibility and the magnetization of macroscopic samples, interference in mesoscopic samples and Coulomb blockade in quantum dots. In particular, I will discuss the conditions needed for the compressibility and magnetization to reflect non-abelian quasi-particles, the inter-relations between interference and Coulomb blockade, and the subtleties associated with each of them. I will also comment on existing experimental data.

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