

Abstract Submitted  
for the MAR11 Meeting of  
The American Physical Society

**Spin-full quantum Hall states: squeezing techniques** EDDY ARDONNE, Nordita, Stockholm, MARIA HERMANNNS, B. ANDREI BERNEVIG, Department of Physics, Princeton University, NICOLAS REGNAULT, Laboratoire Pierre Aigrain, ENS and CNRS, Paris — Despite the high magnetic field does the spin of the electron play an important role in the quantum Hall effect. Various spin (singlet) quantum Hall states have been proposed to explain various observed quantum Hall plateaux. In this talk, we present a method to generate spin-full quantum Hall states, by employing a squeezing procedure, as is used in the polarized state. This squeezing procedure also sheds additional light on the underlying (topological) structure of such states. By using connections between polarized and un-polarized states, one gains insight in the polarized state, as is the case for the Haffnian and Haldane-Rezayi states.

Eddy Ardonne  
Nordita

Date submitted: 23 Dec 2010

Electronic form version 1.4