

Abstract Submitted
for the MAR08 Meeting of
The American Physical Society

Effect of Landau Level Mixing on Braiding Statistics STEVEN H. SIMON, Alcatel-Lucent Bell Labs — We examine the effect of Landau level mixing on the braiding statistics of quasiparticles of abelian and nonabelian quantum Hall states. While path dependent geometric phases can perturb the abelian part of the statistics, we find that the nonabelian properties remain unchanged to an accuracy that is exponentially small in the distance between quasiparticles.

Steven H. Simon
Alcatel-Lucent Bell Labs

Date submitted: 19 Nov 2007

Electronic form version 1.4