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### **Electrostatic Measurements of Fractional Charge in the Second Landau Level**

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The fractional quantum Hall state at filling factor  $5/2$  is predicted to result from a BCS pairing instability in a Fermi sea of composite fermions. The resulting p-wave paired state would have the lucrative property of supporting non-Abelian braiding statistics which can be leveraged for decoherence-free quantum computation. A robust prediction of any theory involving pairing at half-integer filling in the quantum Hall regime is that quasiparticles should have charge  $e/4$ . Local compressibility measurements allow us to compare how quasiparticles charge disorder puddles at  $7/3$  and  $5/2$ . From this comparison, we can extract the ratio of quasiparticle charges for these states. The value we obtain,  $4/3$ , suggests a local charge of  $e/4$  at  $5/2$  (assuming  $e/3$  at  $7/3$ ). We additionally show that these  $e/4$  quasiparticles can be pinned by disorder, a prerequisite for the interferometry measurements that may demonstrate non-Abelian braiding statistics.