1078-35-384   **Baoping Liu*** (`baoping@math.berkeley.edu`). *Low regularity solution for Chern-Simons-Schrödinger system.*

The Chern-Simons-Schrödinger system arises in physics as a model describing the second-quantized N-body anyon problem. Mathematically, it has some similarity to the Schrödinger map problem. By choosing a suitable gauge, and exploring bilinear estimates in finer scale, we obtain local wellposedness for solutions with low regularity. (Received December 13, 2011)