

Abstract Submitted
for the MAR17 Meeting of
The American Physical Society

Central Charge from Adiabatic Transport of Cusp Singularities in the Quantum Hall Effect TANKUT CAN, Simons Center for Geometry and Physics — We identify the central charge of fractional quantum Hall (FQH) states by studying adiabatic evolution in the parameter space of singular surfaces. In particular, we study FQH states on a punctured sphere and compute the Berry curvature under adiabatic motion of cusp singularities at the punctures. The Berry curvature is finite in the large N limit and completely controlled by the central charge, a robust geometric response coefficient.

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Date submitted: 08 Nov 2016

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