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**Akos Nagy\*** ([nagyakos@math.msu.edu](mailto:nagyakos@math.msu.edu)). *On the Berry connection of the Ginzburg–Landau vortices.*

The Ginzburg–Landau theory is a gauge theory that models superconductivity close to the critical temperature. In this talk, the critically coupled 2-dimensional Ginzburg–Landau vortices are analyzed. Using results of Taubes and Bradlow, we establish approximate formulas for the tangent vectors of the vortex moduli space. As applications, we compute the curvature and the holonomy of the corresponding Berry connection in the large vortex size limit. (Received September 13, 2015)