**DMITRY GOLOVATY**, The University of Akron

*Solutions of Ginzburg-Landau equations in the presence of weak electric currents*

I will discuss a Ginzburg-Landau model that allows for weak electric currents and in which the magnetic field is neglected. I will demonstrate the existence of a steady-state solution in a vicinity of the purely superconducting state and show that this solution is linearly stable.