YANIV ALMOG, Department of Mathematics, LSU, Baton Rouge, LA 70803 Radially symmetric local minimizers of the Ginzburg–Landau energy functional

We discuss degree one radially symmetric solutions to the Ginzburg–Landau equations in the presence of magnetic fields. We first discuss their existence (and non-existence) in the whole plane, where they are always unstable. Then we discuss their stability on a finite disc.