FRIDOLIN TING, Lakehead University

Nonradial solutions to magnetic Ginzburg-Landau equations on the whole plane

We show that there exists non-radial, degree-changing, finite-energy solutions to the magnetic Ginzburg-Landau equations on the whole plane. These solutions are polygonal type configurations with $\frac{2\pi}{k}$ symmetry for $k \geq 7$. This is joint work with J. Wei.