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Symmetry of locally minimizing solutions for the 3D Ginzburg–Landau system

In this talk, we will classify nonconstant entire local minimizers of the standard Ginzburg–Landau functional for maps in $H_{\text{loc}}^1(\mathbb{R}^3; \mathbb{R}^3)$ satisfying a natural energy bound. Up to isometries, such solution of the Ginzburg–Landau system is given by an explicit solution equivariant under the action of the orthogonal group.

This is a joint work with Adriano Pisante.