- * Electronic Address: ntutiws@gmail.com 1 Free University of Berlin

Existence of rotating spiral patterns of the complex Ginzburg-Landau equation on 2-spheres

Jia-Yuan Dai^{1*}

We show the existence of rotating spiral patterns, defined by a spiral ansatz, of the complex Ginzburg-Landau equation on 2-spheres. In the proof we apply equivariant bifurcation results and study the kernel of the linear variational equation along each bifurcating solution.