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# Asymptotic Behavior of Critical Points of Energy Involving ‘Circular Well’ Potential

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## Abstract

We study the singular limit of critical points of an energy with a penalization term depending on a small parameter. The energy involves a potential which is a nonnegative function on the plane, vanishing on a closed curve. We generalize to this setting the results obtained by Bethuel, Brezis, and Helein for the Ginzburg–Landau energy. This is a joint work with Petru Mironescu (Lyon I).

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