ID de Contribution: 14

## Smooth branch of travelling waves in the Gross-Pitaevskii equation for small speed

mardi 22 mai 2018 16:20 (50 minutes)

We shall consider the Gross-Pitaevskii equation in the plane. This model is known to have a branch of travelling waves (the Jones-Roberts branch). Variational methods have already been used to yield existence results for this branch. Up to now, the question of smooth dependency with respect to the speed was not rigorously proved. We shall present a result showing the existence of a smooth branch for small speed. This is a joint work with Eliot Pacherie.

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