

Observability for Schrödinger equations posed on the whole plane

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In this talk, I will present new observability results for Schrödinger equations posed on the whole plane and associated to periodic potentials. More precisely, we aim at establishing observability inequalities from periodic measurable subsets. Thanks to the Floquet-Bloch transform, this problem can be reduced to the study of a family of Schrödinger equations posed on the two-dimensional torus. In order to deal with it, I will introduce the notion of semiclassical measures. This is a joint work with Kévin Le Bal'h.

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