

Seminario de análisis matemático y aplicaciones
Analisi matematikoa eta aplikazioak mintegia

**Bogoliubov correction to the mean-field
dynamics of Bose gases**

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ABSTRACT: I will discuss rigorous results on the dynamics of weakly interacting Bose gases. To the leading order, it is well-known that the Bose-Einstein condensation is stable under the Schrödinger flow and the condensate is governed by the Hartree/Gross-Pitaevskii equation. I will focus on the second order correction, where the fluctuations around the condensate are described by Bogoliubov's theory. This talk is based on joint works with Mathieu Lewin, Marcin Napiórkowski and Benjamin Schlein.

LUGAR / LEKUA:

Sala de seminarios de la sección de matemáticas
Matematika ataleko mintegi gela

DÍA Y HORA / EGUNA ETA ORDUA:

14/10/2015 (Miércoles / Asteazkena), 12:00