



## Seminar/Talk

# Averaging of nonlinear Schrödinger equations with strong confinement and rotation

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Host: Robert Seiringer

We consider a class of nonlinear Schrödinger equations (NLS) subject to strong anisotropic confining forces by, either, electric, or constant magnetic fields. Introducing a small adiabatic parameter, we study the limit as this parameter tends to zero. Using a high-frequency averaging technique we rigorously derive effective lower dimensional NLS type models. In particular we obtain a derivation of the LLL equation ("lowest Landau level equation") as a limiting model.

**Tuesday, December 12, 2017 04:00pm - 06:00pm**

Big Seminar room Ground floor / Office Bldg West (I21.EG.101)



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