



## Advanced Workshop on "Anderson Localization, Nonlinearity and Turbulence: A Cross-Fertilization"

ICTP, Trieste, Italy, 23 August - 3 September 2010

Wei-Min WANG
Dept. de Mathematique
Univ. Paris-Sud
Orsay, Cedex, France

## TITLE:

"Supercritical NLS: Quasi-periodic solutions and almost global existence"

## ABSTRACT:

We construct quasi-periodic solutions and prove almost global existence for the supercritical NLS on the d-torus (d arbitrary). In the high frequency these limit, quantitative solutions could also be compressible relevant to Euler equations. The main new ingredient is a fine analysis of the resonance geometry using algebraic equations.