

ΣΕΜΙΝΑΡΙΟ ΚΕΝΤΡΟΥ ΚΒΑΝΤΙΚΗΣ ΠΟΛΥΠΛΟΚΟΤΗΤΑΣ &
ΝΑΝΟΤΕΧΝΟΛΟΓΙΑΣ/ CCQCN SEMINAR

Wednesday, 29 April 2015

14:30-15:30

3rd Floor Seminar Room

**Dynamics of quantum correlations of ultracold bosons in optical
lattices**

Dr. Konstantin Krutitsky

University Duisburg-Essen

Abstract

Complete theoretical description of non-equilibrium phenomena in interacting quantum systems in the strongly correlated regime is one of the most challenging problems of modern physics. In this talk, I will present our new method which allows addressing this class of problems. I will also discuss our recent results on the dynamics of ultracold bosons in optical lattices caused by a sudden change of the control parameters

