



Canadian Association
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Association canadienne
des physiciens et physiciennes

Contribution ID: 2316

Type: **Invited Speaker / Conférencier(ère) invité(e)**

***** Withdrawn *** Nonlocal models in pattern formation (I)**

Wednesday 13 June 2018 09:00 (30 minutes)

abstract: In the first part of the talk, I will discuss a new agent-based model of wealth distribution in a society which incorporates spatial information. The key feature of the model is formation of wealth “hot-spots”, region in space where wealth is concentrated. The continuum limit of this model leads an interesting integral equation.

In the second part of the talk, I discuss how a non-local problem arises when describing the density distribution of vortices in the classical Gross-Pitayevskii model of Bose-Einstein Condensates in the presence of rotation and trap.

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Session Classification: W1-1 Pattern Formation and Statistical Mechanics of Non-Equilibrium Systems (DCMMP) | Formation de motif et mécanique statistique des systèmes hors d'équilibre (DPMCM)