

## SEMINAIRE D'ANALYSE

➤ **VENDREDI 2 DECEMBER 2016 à 14h15 - salle MA A3 31**



*Professeur Prof Alexander Movchan* (University of Liverpool, UK) donnera une conférence sur le thème:

### « **Asymptotic Analysis and Uniform Meso-Scale Approximations of Fields in Multiply-Perforated Domains** »

**Abstract** The talk will present a novel approach to analysis of singularly perturbed boundary value problems in domains with many small holes. Two topics will be highlighted: asymptotics of Green's functions in singularly perturbed domains and meso-scale asymptotic approximations of physical fields in non-periodic perforated domains. The important feature of these asymptotic approximations is their uniformity with respect to the independent variables. The lecture is based on the results of the joint work with V.G. Maz'ya and M.J. Nieves.

Lausanne, le 14 novembre 2016  
BD/HMN/MM

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Les séminaires qui ont lieu à la Section de Mathématiques sont annoncés sur Internet  
<http://memento.epfl.ch/math/>