

B. Buffoni – B. Dacorogna – J. Krieger – M. Nguyêñ – Section Mathématiques

SEMINAIRE D'ANALYSE

➤ **VENDREDI 29 AVRIL 2016 à 15h15 - salle CM010**



Professeur **Yves CAPDEBOSCQ** (Oxford University, UK) donnera une conférence sur le thème:

« Small volume asymptotics for Maxwell's equations »

Abstract: In this talk, we shall discuss first order asymptotic expansion (in terms of volume fraction) of solutions of the time-harmonic Maxwell's system of equations in presence of inclusions (or defects). One typical difficulty is the control of the behavior of the resonances uniformly with respect to the small parameter (here, the volume fraction). This is traditionally done by means of operator theory and (collective) compact convergence. In this talk we show that new regularity estimate allow to provide a different, quantitative, approach. This work is a collaboration with Giovanni S. Alberti (ETH Zurich).

Lausanne, le 7 avril 2016
BD/HMN/MM

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