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

SEMINAIRE D'ANALYSE

➢ *VENDREDI 15 AVRIL 2016 à 15h30 - salle CM010*

➢

Professeur **Houssem Haddar** (Ecole Polytechnique, Fr) donnera une conférence sur le thème:

« Some recent developments in the numerics of inverse scattering problems »

Abstract: We present some recent advances in the analysis of so called sampling methods for solving inverse scattering problems. Our focus will be on the extension of this type of methods to the imaging problem in complex unknown backgrounds. We exploit in particular the link between the indicator function and solutions to so-called interior transmission problems to design an imaging algorithm based on differential measurements. Some applications to non destructive testing of concrete type materials or periodic media will be discussed.

Lausanne, le 31 mars 2016
BD/HMN/MM