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Mathematics Institute of Computational Science and Engineering - MATHICSE

SEMINAR OF NUMERICAL ANALYSIS

➤ **FRIDAY 31 AUGUST 2012 - ROOM MA A1 12 - 11h00**

Prof. Houssein HADDAR (INRIA Saclay & Ecole Polytechnique Palaiseau / France) will present a seminar entitled:

"On qualitative methods for inverse scattering problems"

Abstract:

We shall start with a brief review of so-called sampling methods to solve inverse scattering problems at a fixed frequency. We mainly focus on the Linear sampling methods and the Factorization methods. We then give an overview of latest developments of these methods and some open perspectives.

The second part of this talk is dedicated to the analysis so-called transmission eigenvalues (which are closely related to the sampling methods). We shall present in particular some recent ideas on how to use them in non destructive testing applications.

Lausanne, 21 August 2012/FN/cr

The seminars taking place at the Section of Mathematics are announced on internet address :
<http://csqi.epfl.ch/seminars> or <http://mathicse.epfl.ch/seminars>