

Università degli Studi della Basilicata
Dipartimento di Matematica, Informatica ed Economia

Seminario Interdisciplinare di Matematica

Si avvisano gli interessati che **Mercoledì 7 Dicembre 2016, alle ore 10:30**, nell'Aula Seminari del Dipartimento (Aula n. 18),

Ermanno LANCONELLI
(Università degli Studi di Bologna)

terrà la conferenza dal titolo

**The Wiener test in potential theory
for second order PDEs**

Summary. For wide classes of linear second order PDEs with non negative characteristic form, the Dirichlet problem can be studied with potential theory methods. These methods allow to construct generalized solutions in the sense of Perron-Wiener-Brelot-Bauer. The boundary behavior of such solutions can be characterized in terms of a test whose ancestor is the classical Wiener test for the Dirichlet problem related to the Laplace equation. The lecture will present a short historical survey on the Wiener-type tests, together with some very recent results.



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