



Colloquium del Departamento de Análisis Matemático

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**“Unified treatment of Explicit and Trace
Formulas”**

Jueves 22 de enero de 2015
a las 13:00 horas en el seminario 222

Abstract:

We prove that a Poisson-Newton formula, in a broad sense, is associated to each Dirichlet series with a meromorphic extension to the whole complex plane of finite order. These formulas simultaneously generalize the classical Poisson formula and Newton formulas for Newton sums. Classical Poisson formulas in Fourier analysis, explicit formulas in number theory and Selberg trace formulas in Riemannian geometry appear as special cases of our general Poisson-Newton formula. (Joint work with Ricardo Pérez-Marco).

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