



Domingo García (Domingo.Garcia@uv.es), Departamento de Análisis Matemático, University of Valencia, Valencia, Spain, *On strips of convergence for Dirichlet series.*

ABSTRACT. Bohr showed that the width of the strip (in the complex plane) on which a given Dirichlet series $\sum a_n/n^s$, $s \in \mathbb{C}$, converges uniformly but not absolutely, is at most $1/2$, and Bohnenblust-Hille that this bound in general is optimal. We prove that for a given infinite dimensional Banach space Y the width of Bohr's strip for a Dirichlet series with coefficients a_n in Y is bounded by $1 - 1/\text{Cot}(Y)$, where $\text{Cot}(Y)$ denotes the optimal cotype of Y . For a given Dirichlet series we also obtain new strips of convergence in the complex plane related to Bohr's classical strips.

The material of this talk is based on joint research with A. Defant, M. Maestre and D. Pérez-García.