

June 27, 2017, 16:00-17:00 (B2)

**Diana CARBAJAL**

Universidad de Buenos Aires

**RIESZ BASES OF EXPONENTIALS ON UNBOUNDED MULTI-TILES IN  $\mathbb{R}^d$**

Let  $\Omega \subset \mathbb{R}^d$  be a measurable set of positive and finite measure and  $\Lambda$  a discrete set of  $\mathbb{R}^d$ . In this talk, we will give an introduction to the problem of the existence of Riesz basis of exponentials in  $L^2(\Omega)$  of the form

$$E(\Lambda) = \{e^{2\pi i \langle \lambda, x \rangle} : \lambda \in \Lambda\},$$

and review the actual state of the problem. We will also present a recent result, in joint work with Carlos Cabrelli, where new examples of Riesz bases of exponentials on unbounded sets are found.