

SEMINARIO DE ANÁLISIS Y APLICACIONES

Viernes, 22 de marzo de 2019

11:30 h., Aula Naranja (ICMAT)

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ICMAT

The least doubling constant of a metric measure space

Resumen:

Given a metric measure space (X, d, μ) , its doubling constant is given by

$$C_\mu = \sup_{x \in X, r > 0} \frac{\mu(B(x, 2r))}{\mu(B(x, r))},$$

where $B(x, r)$ denotes the open ball of radius r centered at x . Clearly, $C_\mu \geq 1$, and in the case X reduces to a singleton $C_\mu = 1$. At first, one might think that for a metric space with more than one point, the constant C_μ could be very close to one. However, we will actually see that in general $C_\mu \geq 2$. The talk is based on a joint work with Javier Soria (Barcelona).

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