



# Seminario Rubio de Francia

## Conferencia

por

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Título:

*On Dunford-Pettis and Radon-Nikodym linearizations of Lipschitz maps*

*Resumen:*

Let  $M, N$  be pointed metric spaces and  $\mathcal{F}(M), \mathcal{F}(N)$  their corresponding Lipschitz-free spaces. It is well known that every Lipschitz map  $f : M \rightarrow N$  such that  $f(0) = 0$  admits the free linearization  $\hat{f} : \mathcal{F}(M) \rightarrow \mathcal{F}(N)$ , also called the Lipschitz operator associated to  $f$ . For example, it can be realized as the pre-adjoint of the composition operator  $C_f : Lip_0(N) \rightarrow Lip_0(M)$ . In this talk, based on a joint work with Gonzalo Flores, Mingu Jung, Gilles Lancien, Colin Petitjean and Andres Quilis, we will characterize those  $f$  for which  $\hat{f}$  is Dunford-Pettis as well as those  $f$  for which  $\hat{f}$  is Radon-Nikodým. It turns out that the corresponding metric property for  $f$  is the same for both linear properties. This generalizes the recent result that in Lipschitz free spaces the Radon-Nikodým property and the Schur property coincide.

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