
On Lipschitz free space over countable compact metric space

Aude DALET (Laboratoire de Mathématiques de Besançon — France)

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Let M be a pointed metric space and $Lip_0(M)$ the space of Lipschitz functions vanishing at 0. Endowed with the Lipschitz norm this space is a Banach space. Its unit ball being compact for the pointwise topology, it is a dual space. Let us call its canonical predual the Lipschitz-free space over M , denoted $\mathcal{F}(M)$.

Despite the simplicity of the definition of $\mathcal{F}(M)$ very little is known about their linear structure. In this talk we will study spaces with Lipschitz-free space having bounded approximation property and being dual space, in particular compact or proper countable metric spaces.