ISTANBUL ANALYSIS SEMINARS

LIPSCHITZ-FREE BANACH SPACES

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Abstract: Let M be a metric space. The Banach space $\operatorname{Lip}(M)$ of real-valued Lipschitz functions defined on M is a dual space, and its predual $\mathcal{F}(M)$, called the free space over M, enjoys remarkable functorial properties. The free spaces are easy to define and useful, but so far their structure is not well-understood. We will investigate in particular when such spaces have the Grothendieck bounded approximation property, and relate this property with extension operators for Lipschitz functions.

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