

**MULTI-LIPSCHITZ MAPS AND TENSOR PRODUCTS OF FREE
BANACH SPACES.**

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It is known that each Lipschitz function on a pointed metric space X can be extended to a linear functional on a Banach space $B(X)$ which is so called a free Banach space over X .

In the talk will be considered the following question: *Under which conditions a multi-Lipschitz function on $X_1 \times X_2 \times \dots \times X_n$ can be extended to a linear functional on a tensor product $B(X_1) \otimes B(X_2) \otimes \dots \otimes B(X_n)$?* We will discuss various norms on $B(X_1) \otimes B(X_2) \otimes \dots \otimes B(X_n)$ related to the question.

Joint work with A. Zagorodnyuk

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