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Galyna Livshyts: The stability and the equality cases in the Gaussian B-inequality

mardi 30 mai 2023 14:00 (45 minutes)

We establish the equality cases in the celebrated Gaussian B-inequality of Cordero-Erasquin, Fradelizi and Maurey: we show that the equality only holds when the corresponding symmetric convex body is either the whole space or has an empty interior. Furthermore, we derive a stability version with a sharp rate (in some sense). Moreover, we establish equality cases in the strong B-inequality (which are more complicated to describe). Our methods combine L2 method and trace estimates. Joint work with Orli Herscovici, Liran Rotem and Alexander Volberg.

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