

GASTVORTRAG

Die Arbeitsgruppe Functional Analysis lädt zu folgendem Vortrag ein:

Hermann König

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On the volume of non-central sections of a cube

Let Q_n be the cube of side length one centered at the origin in \mathbb{R}^n , and let F be an affine $(n-d)$ -dimensional subspace of \mathbb{R}^n having distance to the origin less than or equal to $\frac{1}{2}$, where $0 < d < n$. We show that the $(n-d)$ -dimensional volume of the section $Q_n \cap F$ is bounded below by a value $c(d)$ depending only on the codimension d but not on the ambient dimension n or a particular subspace F . In the case of hyperplanes, $d = 1$, we show that $c(1) = \frac{1}{17}$ is a possible choice. We also consider a complex analogue of this problem for a hyperplane section of the polydisc. This is joint work with Mark Rudelson.

Zeit: **Dienstag, den 19. November 2019 um 13.10 Uhr**

Ort: **ICT-Gebäude, Seminarraum 13**

Gäste sind herzlich willkommen!

Eva Kopecká