

Brunn-Minkowski type inequalities for Gaussian Measure

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In this talk we will present a joint work in progress with Richard Gardner. We will discuss the Brunn-Minkowski type inequalities for Gaussian Measure in R^n . The best-known of these are Ehrhard's inequality, and the weaker logarithmic concavity inequality.

We obtain some results concerning other inequalities of this type, as well as a best-possible dual Gaussian Brunn-Minkowski inequality (where the Minkowski sum is replaced by radial sum).