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**Richard J. Gardner** and **Artem Zvavitch\*** (zvavitch@math.kent.edu), The Department of Mathematical Sciences, Kent State University, Kent, OH 44242. *Brunn-Minkowski type inequalities for Gaussian Measure.*

In this talk 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). (Received August 18, 2008)