

ON (COMPLEMENTED) BRUNN-MINKOWSKI TYPE INEQUALITIES FOR MEASURES

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In this talk, we will discuss various functional and geometric forms of Brunn-Minkowski type inequalities, in both its classical form and its complemented version. We will study these inequalities in the setting of different absolutely continuous measures on $\mathbb{R}^n$ with radially decreasing densities, by paying special attention to the cases of the volume (the n -dimensional Lebesgue measure) and the standard Gaussian measure. Furthermore, we will show some other related inequalities when involving different operations between subsets of $\mathbb{R}^n$.

This is (partially) based on joint work with A. Zvavitch.