

Functional John and Löwner Ellipsoids

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In this talk, we will speak about functional analogs of the John and Löwner ellipsoids for log-concave functions. We will discuss the existence and uniqueness results for these objects, their general properties such as volume ratio, containment, John's condition, etc. We will note the difference between the behavior of convex sets and log-concave functions concerning our problems, and highlight a number of open problems.