

The Log-Convex Density Conjecture

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The Log-Convex Density Conjecture says that in \mathbb{R}^n with a log-convex radial density, balls about the origin minimize weighted perimeter for given weighted volume. We'll discuss some recent progress and generalizations following earlier work by undergraduates (see arXiv posts by Howe, Cañete/Rosales, Cabré/Ros-Oton/Serra).