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*On convex bodies with sections of prescribed volume*

Part of a larger project with several collaborators, we are studying how certain measurements of non-central sections of a convex body determines uniquely the convex body. Under extra hypotheses, we will show some characterizations of convex bodies in the Euclidean  $n$ -space whose  $(n - 1)$ -dimensional sections tangent to a strictly, smooth, compact convex set contained in their interior have equal volume.