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Generalized Minkowski inequality via degenerate Hessian equations on exterior domains

In this talk, we will talk about the proof of a sharp generalized Minkowski inequality that holds for any smooth, strictly $(k - 1)$ -convex, star-shaped domain Ω . Our proof relies on the solvability of the degenerate k -Hessian equation on the exterior domain $R^n \setminus \Omega$.