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Characterization of self-polar convex functions

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In a work by Artstein–Avidan and Milman, the concept of polarity is generalized from the class of convex bodies to the larger class of convex functions. While the only self-polar convex body is the Euclidean ball, it turns out that there are numerous self-polar convex functions. In this talk we give a complete characterization of rotationally invariant self-polar convex functions.

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