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The Siciak–Zahariuta extremal function as the envelope of disc functionals

The Siciak–Zahariuta extremal function of a subset X of complex affine space, also known as the pluricomplex Green function with logarithmic growth at infinity, is the supremum of all entire plurisubharmonic functions of minimal growth that are negative on X . In the case when X is convex, there is a disc formula for the Siciak–Zahariuta extremal function due to Lempert. We will describe new joint work with Ragnar Sigurdsson in which Lempert's formula is generalized to arbitrary open sets.