Greg Kuperberg* (greg@math.ucdavis.edu). From the Mahler conjecture to the isotropic constant conjecture? Preliminary report.

To be clear, I don’t know how to prove the isotropic constant conjecture or anything close to it. Instead, I will review various small partial results related to the Mahler conjecture and the isotropic constant conjecture. In particular I am interested in other possible uses of the shapes $K^+, K^-$, and $K^\circ$ that arose in my proof of the Bourgain-Milman theorem. (Received September 01, 2014)