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### **Exploring Stability in Geometric and Functional Inequalities**

*Abstract.* Geometric and functional inequalities have long been foundational in analysis, shaping our understanding of numerous mathematical and physical phenomena. Recently, attention has turned to questions of stability: if a function is nearly optimal in a known inequality, can we quantify just how close it is to a genuine minimizer? In this talk, I will overview this beautiful topic and discuss some recent results.