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Two weight norm inequalities for singular integrals in $\mathbb{R}^n$

In this talk I will present the most recent advances in the problem of characterizing the two weight norm inequality for singular integrals in Euclidean space. In particular two weight local Tb theorems in n dimensions with an energy side condition. The talk will be self-contained. Mostly joint work with Grigoriadis, Paparizos, Sawyer, Shen. The talk will be self-contained.