

Colloquium

Two weight T1 theory for singular integrals

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摘 要：

One of the central open problems in the area of nonhomogeneous Harmonic analysis is to find a real variable characterization for the boundedness of singular integrals in the setting of two arbitrary Borel measures. Not only the solution will be a profound extension of the famous T1 theorem of David and Journé in 1970s, but the solution will have many important applications in various areas. In this talk, I will introduce the famous two weight problem and present our solution which settles the longstanding NTV conjecture for the Hilbert transform. If time permits, I will also outline our application of two weight Cauchy transform which settles a longstanding open problem in complex analysis.