

# 國立中山大學應用數學系

## 學術演講

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國立中央大學數學系

講題：Two weight T1 theory for singular integrals

時間：2015/10/01 (星期四)  
16:10 ~ 17:00 pm

地點：理學院四樓理 SC 4009-1 室

茶會：15:30~16:00 於理 SC 4010 室 (系辦公室)

### 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.

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