國立中央大學數學系
專題演講

主講人：**Professor Xuan Thinh Duong**

(Macquarie University, Australia)

題目：**Weighted bounds for singular operators with non-smooth kernels**

演講茶會: **2015年12月24日(星期四) 3:30 p.m. ~ 4:00 p.m.**

茶會地點:**中央大學鴻經館M306**

演講時間：**2015年12月24日(星期四) 4:00 p.m. ~ 5:00 p.m.**

地點：**中央大學鴻經館M107**

Abstract: Let T be a multilinear integral operator which is bounded on certain products of Lebesgue spaces on $\mathbb{R}^n$. We assume that its associated kernel satisfies some mild regularity condition which is weaker than the usual Hölder continuity of those in the class of multilinear Calderón-Zygmund singular integral operators. In this talk, given a suitable multiple weight $\vec{w}$, we obtain the bound for the weighted norm of multilinear operators T in terms of $\vec{w}$. As applications, we use this result to obtain the weighted bounds for certain singular integral operators such as linear and multilinear Fourier multipliers and the Riesz transforms associated to Schrödinger operators on $\mathbb{R}^n$.

This is joint work with The Anh Bui, José M. Conde-Alonso and Mahdi Hormozi.

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