國立中央大學數學系

專題演講

主講人：Dr. Daniel E. Spector (Israel Institute of Technology)

題目：On L^{p-star}-differentiability of Sobolev Functions

時間：2013年9月26日(星期四) 1:20 p.m. ~ 2:50 p.m.

地點：中央大學鴻經館M 107室

摘要：

A basic result in the theory of the Sobolev spaces is the L^p-differentiability of Sobolev functions - essentially a consequence of the Lebesgue differentiation theorem. Less known is the use of the Sobolev embedding theorem to improve this result to so-called L^{p-star}-differentiability. In this talk I will discuss a recent result on characterizing Sobolev spaces that turns out to be related to this result, which was quite surprising for us. This talk is partially based on joint work with my graduate advisor, Giovanni Leoni.

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