

國立交通大學應用數學系

學術演講公告

主講人：陳瑞堂教授（國立台灣師範大學數學系）

講題：P-Laplacian on complete noncompact manifolds

時間：105年6月7日(星期二) 下午 2:00 –3:00

地點：(光復校區) 科學一館 223 室

茶會：當天下午 1:30 (科學一館 205 室)

Abstract

In this talk, we consider p -Laplace operators on complete noncompact manifold M . First, we define the p -parabolic ends and p -hyperbolic ends according to the p -capacity on M , which imply the volume estimates of ends with positive p -spectrum. Next, if Ricci curvature of M has the lower bound depending on the spectrum of M , we show the Liouville properties for p -harmonic functions with finite p -energy, which also infer the topological property of this manifold, that is, M has at most one p -hyperbolic end. Finally, whenever sectional curvature of M has lower bound, we prove the gradient estimate of the positive eigenfunction associated to p -Laplace operator.

敬請公告 歡迎參加

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