

NTU Applied Mathematics Colloquium

演講者 : Daisuke Kawagoe (Kyoto University)

講題 : $W^{1, p}$ estimate for the stationary transport equation

時間 : 2019年6月3日 (星期一) 14:00-15:00

地點 : 臺灣大學天數館 202 室

摘要 : We consider a boundary value problem of the stationary transport equation in a two dimensional bounded convex domain with the incoming boundary condition. In this talk, we give a $W^{1, p}$ estimate of the solution for $1 \leq p < p_m$, where p_m is a real number depending only on the shape of the domain. Moreover, we show two examples which imply that this estimate is optimal in some cases.

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