

## 第18回

講演者 : **Der-Chen Chang** 氏 (Georgetown 大学)

- 題目 : Estimates for elliptic boundary valued problem in Hardy spaces
- 日時 : 平成27年3月9日(月) 16:30 – 17:30

Let  $\Omega$  be a bounded domain in  $\mathbb{R}^n$  with smooth boundary. Consider the following elliptic boundary value problem:

$$\begin{aligned}\Delta u &= f \quad \text{in } \Omega \\ Xu &= g \quad \text{on the boundary}\end{aligned}$$

Here  $X$  is a transversal vector field to the boundary. This includes the regular Dirichlet and Neumann problem. In this talk, we first introduce suitable Hardy spaces  $H_p(\Omega)$  on  $\Omega$ . Then we shall show the inequality

$$\|\text{norm of second partial differential of } f\| \leq \text{const} * \|\text{norm of } f\|$$

]



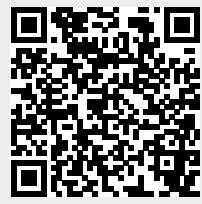
.lg-outer.lg-pull-caption-up.lg-thumb-open .lg-sub-html {bottom:80px;}

21 images

[<6>]

From:

<https://wiki.ma.noda.tus.ac.jp/rs/> - (旧)理工学部 数学科



Permanent link:

<https://wiki.ma.noda.tus.ac.jp/rs/seminar/2014/018?rev=1510561740>

Last update: **2017/11/13 17:29**