

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 Ω be a bound domain in R^n with smooth boundary. Consider the following elliptic boundary valued 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 Ω . Then we shall show the inequality

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



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21 images

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