

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 \mathbb{R}^n with smooth boundary. Consider the following elliptic boundary valued problem:

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

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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Last update: **2017/11/16 18:25**

