

第18回

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- 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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