

SCMS Seminar



A PRIORI ESTIMATES-THE CORE OF PDE ANALYSIS

Speaker: Professor Congming Li
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Time: 16:00 p.m.-17:00 p.m., Thursday, June 23, 2016

Venue: Room 2001, East Guanghua Tower (Main), Fudan University

Abstract: First, we give a brief introduction on the central role played by A priori estimates in PDE analysis.

We then present some Liouville type theorems via blowing-up arguments to establish some important a priori estimates.

We also plan to present some related challenging problems.

$$b_i - \left(\sum_{j=1}^i a_{ij} x_j^{(k)} + \sum_{j=i+1}^n a_{ij} x_j^{(k)} \right)$$

$$\Delta y_i = \int_{x_i}^{x_{i+1}} \frac{a_{ij} y' dx - \left(\sum_{j=1}^{i-1} a_{ij} x_j^{(k)} + \sum_{j=i+1}^n a_{ij} x_j^{(k)} \right)}{x_i}$$

$$\int_{x_k}^{x_{k+1}} f(x, y) dx = \int_{x_k}^{x_{k+1}} y' dx = y(x)$$