

SCMS Seminar



DISCRETE GROUPS AND L^p SPACES

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SCMS

Time: 9:00-9:30am., Wednesday, 5th July, 2017

Venue: Room 2201, East Main Guanghua Tower, Handan Campus

Abstract: In this talk, I will present two different types of results. First, I will talk about K theory of L^p space convolution algebra on a discrete group, based on joint work with Professor Guoliang Yu. Second, I will talk about my joint work with Simeng Wang and Guixiang Hong on maximal inequalities for actions of groups with polynomial growth on non-commutative L^p spaces, extending the work of Quanhua Xu and Marius Junge.

$$k_2 = hf(x_{i+1} + \frac{1}{2}y_i + \frac{1}{2}x_{i+1}^2)$$
$$b_i = \frac{(\sum_{j=1}^{i-1} a_{ij}x_j^{(k)} + \sum_{j=i+1}^n a_{ij}x_j^{(k)})}{x_{i+1}}$$
$$\Delta y_i = \int_{x_i}^{x_{i+1}} y' dx$$
$$\int_{x_k}^{x_{k+1}} f(x, y) dx = \int_{x_k}^{x_{k+1}} y' dx = y(x)$$
$$= \sqrt{(y_n + 0.5\tau k_1)^2 + (t_n + 0.5\tau)^2}$$