

SCMS Seminar



SOME TOPICS IN COMPLEX DYNAMICS

Speaker: Weiwei Cui
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Time: 15:30-16:00, Tuesday, June 18, 2019

Venue: Room 2213, East Main Guanghua Tower

Abstract:

In this talk I will discuss the computation of Hausdorff dimension of escaping sets of certain meromorphic functions, the relation between the boundaries of Siegel disks and singular values in the tangent family, and also the construction of rational maps with special branching information. Moreover, some future works will also be mentioned.

$$b_i - \frac{\left(\sum_{j=1}^{i-1} a_{ij} x_j^{(k)} + \sum_{j=i+1}^n a_{ij} x_j^{(k)}\right)}{2}$$

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

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

$$-\sqrt{(y_n + 0.5\tau k_1)^2 + (t_n + 0.5\tau)^2}$$