

SCMS Seminar

BLOCH CONJECTURE FOR CATANESE AND BARLOW SURFACES, AFTER VOISIN

Qingxue Wang, Dept. Math

Time: 15:30-17:00 pm, Wednesday, November 13

Venue: Room 2201, East Guanghua Tower, Handan Campus

Abstract: We'll report the recent paper by Voisin which proves that for Catanese and Barlow surfaces, the Chow group of zero cycles is \mathbb{Z} . This implies the Bloch conjecture for these surfaces

$$k_3 = hf\left(x_{i-1} + \frac{h}{2}, y_{i-1} + \frac{k_2^{(i-1)}}{2}\right)$$
$$b_i = \frac{\left(\sum_{j=1}^{i-1} a_{ij} x_j^{(k)} + \sum_{j=i+1}^n a_{ij} x_j^{(k)}\right)}{a_{ii}}$$
$$\Delta y_i = \int_{x_i}^{x_{i+1}} y' dx = \frac{\left(\sum_{j=1}^{i-1} a_{ij} x_j^{(k)} + \sum_{j=i+1}^n a_{ij} x_j^{(k)}\right)}{a_{ii}}$$
$$\int_{x_k}^{x_{k+1}} f(x, y) dx = \int_{x_i}^{x_{i+1}} y' dx = y(x)$$
$$\sqrt{(y_n + 0.5\tau k_1)^2 + (t_n + 0.5\tau)^2}$$