

***DYNAMICS OF POLYNOMIAL DIFFERENTIAL EQUATIONS
IN THE QUATERNION FIELD***

Speaker: Professor Xiang Zhang (张祥)
Shanghai Jiao Tong University (上海交通大学)

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Abstract: In this talk I introduce our results on dynamics of polynomial differential equations in quaternion algebra. The main results are on reduction of the equations, and the qualitative properties of this class of equations, with emphasizing on quaternion Bernoulli equation and Riccati equation.