ARITHMETIC, ANALYTIC AND DYNAMIC PROPERTIES OF FURSTENBERG SET

Speaker: Aihua Fan

University of Picardie

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Abstract：The Furstenberg set S= \{2^n3^m\} is the semi-group of positive integers generated by 2 and 3. The Furstenberg sequence S=\{s_n\} is the set S with its elements increasingly ordered. The first arithmetic property of S was announced by Ramanujan and Hardy gave a proof, the first dynamic properties of S were obtained by Furstenberg and the famous Furstenberg then arose, Gundy-Varopoulos proved that S is a \Lambda(p)-set which is a property from the point view of harmonic analysis and martingales are naturally involved. We shall present some works around these topics, based on a half survey paper of A. H. Fan, H. Queffelec and M. Quefflec.