

APRIL 1 - JULY 15

IMPAN, WARSAW

SIMONS SEMESTER

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# GEOMETRIC AND ANALYTIC GROUP THEORY

SEMINAR

WEDNESDAY, 12.06.2019

13:00-13:50

ROOM **321**

ŚNIADECKICH 8

00-656 WARSZAWA

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**Shubhabrata Das (Presidency University)**

*Controlled Floyd Separation and a Non Relatively Hyperbolic Group*

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Abstract: Floyd boundary of a finitely generated group is the boundary of a conformally scaled Cayley graph of the group in its Cauchy completion. Olshanskii, Osin and Sapir asked whether a finitely generated group with a non-trivial Floyd boundary is hyperbolic relative to a collection of proper subgroups?

In the context of the above question, I will discuss the construction of a finitely generated, graded small cancellation group, which is not hyperbolic relative to any collection of proper subgroups and show that there is an uncountable family of geodesic rays in the group, that are Floyd separated with respect to quasi-geodesics (which is a weakened version of the usual Floyd distance).

The talk is based on a joint work with Mahan Mj

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