APRIL 1 - JULY 15

IMPAN, WARSAW

SIMONS SEMESTER ON

GEOMETRIC AND ANALYTIC GROUP THEORY

COLLOQUIUM
TUESDAY, 07.05.2019
16:15-17:30

ROOM 3180, MIMUW
BANACHA 2
02-097 WARSZAWA

Mahan Mj (Tata Institute of Fundamental Research)

Coarse Extrinsic Geometry and surface-by-free groups

Abstract: The notion of distortion of finitely generated subgroups H of finitely generated groups G, introduced by Gromov, is a first step towards studying extrinsic geometry of subgroups in the coarse setup. When the group and subgroup are hyperbolic, finer information can be obtained in the presence of a Cannon-Thurston map. We shall discuss applications towards proving quasiconvexity results. When the ambient group G is surface-by-free, hyperbolic, such quasiconvexity results are an ingredient leading to a cubulation result in certain situations.
This will be an expository talk drawing from joint work with several people including Rafi, Manning and Sageev.

IM PAN

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