

APRIL 1 - JULY 15

IMPAN, WARSAW

SIMONS SEMESTER

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# GEOMETRIC AND ANALYTIC GROUP THEORY

SEMINAR

WEDNESDAY, 19.06.2019

14:10-15:00

ROOM 403

ŚNIADECKICH 8

00-656 WARSZAWA

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Ignacio Vergara (IMPAN)

*Positive definite radial kernels on homogeneous trees*

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Abstract:

A radial kernel on a graph  $X$  is a two variable function on the set of vertices of  $X$ , which depends only on the distance between each pair of points.

I will present two characterisations of positive definite radial kernels on regular trees.

The first one is given by the existence of a certain Borel measure on the interval  $[-1,1]$ , and the second one involves positive trace-class operators on  $l^2$ .

I will also discuss some connections with median graphs.

