

APRIL 1 - JULY 15

IMPAN, WARSAW

SIMONS SEMESTER

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COLLOQUIUM  
TUESDAY, 18.06.2019  
16:15-17:30

ROOM 3180, MIMUW  
BANACHA 2  
02-097 WARSZAWA

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Mikael de la Salle (UMPA Ens de Lyon)

*Characterizing a vertex-transitive graph by a large ball*

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Abstract: The subject of the talk will be vertex-transitive infinite connected graphs with bounded degree and with a property of large scale simple connectedness. The most classical examples of such objects are Cayley graphs of finitely presented groups, but I will explain that there are (uncountably) many other, and I will study some topological questions on the space of all such graphs. In passing we will encounter groups with polynomial growth, lattices in simple Lie groups, Bruhat Tits buildings, close local fields, second cohomology groups... Based on joint works with Romain Tessera and Paul-Henry Leemann.

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