

Mathematics Colloquium

6 March
16h15

Room: 1-15
Section of mathematics
rue du Conseil-Général 7-9



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(EPFL)

Geometry, groups and fixed points

In the infinite diversity of geometric spaces, some landscapes are very familiar and accessible: Euclidean spaces, hyperbolic geometry, tree-like objects. These and many more can be related to matrix groups by studying their symmetries.

Meanwhile, in abstract harmonic analysis, there is also a class of very accessible groups: those where some form of Fourier analysis is possible, for instance abelian groups.

We will discuss an analogy between these two topics; it relies on a fundamental fixed-point principle.

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