GRADUATE COLLOQUIUM

Wednesdays, 13-15 (FIM Tea to follow)
Hermann Weyl Zimmer (HG G43, ETH Zentrum)

Speaker: **François Dahmani**
Title: **Zeta functions of discrete groups, and the Selberg Trace Formula**

Date: Wednesday, November 19th

Abstract: The Poisson Summation Formula allows to recognise a torus (among other tori) by the spectrum of its laplacian. In some sense, the Selberg Trace Formula plays this role in the non-abelian case (here: the case of an orientable closed surface of genus $g \geq 2$). This formula explains how the Ruelle and the Selberg Zeta functions, are linked to the spectrum of the laplacian. We plan to end by mentionning a theorem of Margulis on the growth of conjugacy classes.

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