The bounded cohomology of some homeomorphism groups.

Speaker: Nicolas Monod

Abstract: In joint work with Sam Nariman, we determine the bounded cohomology of the homeomorphism groups of the circle and of the closed disc. In both cases, it is the polynomial algebra on the bounded Euler class.

Although certain homeomorphism groups were known to have trivial bounded cohomology since the 1985 work of Matsumoto and Morita, our motivation was that apparently no group had a completely understood bounded cohomology unless it was trivial.

In this lecture, I will describe the new techniques that we introduced in order to prove our results. It turns out that the case of the circle is much easier than that of the disc, but still illustrates some of the main ideas.

Time: 16:00 (German time)