Higher-degree bounded cohomology of transformation groups

Speaker: Martin Nitsche

Abstract: By constructing a transfer map on the level of bounded cohomology Brandenbursky and Marcinkowski showed that the group of area-preserving, isotopic-to-identity homeomorphisms on certain manifolds has infinite-dimensional bounded cohomology in degree 3. Kimura adapted the argument to the area-preserving diffeomorphisms on the 2-disk relative the boundary.
In this talk I will explain the construction of the transfer map in the language of couplings between groups and sketch how the results can be extended to higher (even) degrees.

Time: 16:00 (German time)