

## A Baum–Connes conjecture localised at the unit element of a discrete group.

*jeudi 11 avril 2019 15:15 (50 minutes)*

Let  $\Gamma$  be a discrete group. In this talk, we study a variant of the Baum–Connes isomorphism conjecture which can be called ‘localised at the unit element’ of  $\Gamma$ .

The localised assembly map is constructed in KK-theory with coefficients in  $\mathbb{R}$ . These KK-groups are natural receptacles of elements coming from traces on  $C^*$ -algebras.

We show that the localised Baum–Connes conjecture is weaker than the classical Baum–Connes conjecture but still implies the strong Novikov conjecture. Moreover, it does not see the difference between the reduced and maximal group  $C^*$ -algebras.

We explain these constructions and show the relation with the Novikov conjecture by explicitly comparing at the level of K-homology with real coefficients, the classifying space for free and proper actions  $E\Gamma$  with the classifying space for proper actions  $\underline{E}\Gamma$ . This is joint work with Paolo Antonini and Georges Skandalis.

**Auteur principal:** AZZALI, Sara (Univ. Potsdam)

**Orateur:** AZZALI, Sara (Univ. Potsdam)