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The topological 0th comparison map for ample groupoids

In this talk, for every σ -compact locally compact Hausdorff ample groupoid G , we construct the topological 0th comparison map that relates the 0th homology group of G to the left-hand side of the Baum-Connes conjecture for G . When composed with the Baum-Connes assembly map, it coincides with the classical 0th comparison map from the HK conjecture of Matui. This construction allows the study of the low-dimensional behaviour of the Baum-Connes assembly map by means of comparison maps from the HK conjecture. As an application, we show that the Baum-Connes assembly map for coarse groupoids is low-dimensionally injective.