ALESSANDRO SISTO, ETH Zurich
Quasi-cocycles detect hyperbolically embedded subgroups

Hyperbolically embedded subgroups have been defined by Dahmani-Guirardel-Osin and they provide a common perspective on (relatively) hyperbolic groups, mapping class groups, $Out(F_n)$, CAT(0) groups and many others. I will sketch how to extend a quasi-cocycle on a hyperbolically embedded subgroup H to a quasi-cocycle on the ambient group G. Also, I will discuss how some of those extended quasi-cocycles (of dimension 2 and higher) "contain" the information that H is hyperbolically embedded in G. Joint with Roberto Frigerio and Maria Beatrice Pozzetti.