

Higher central extensions and cohomology

Diana Rodelo *

Abstract. We establish a Galois-theoretic interpretation of semi-abelian cohomology: we prove that cohomology with trivial coefficients classifies central extensions, also in arbitrarily high degrees. This result depends on a geometric viewpoint of the concept of higher central extension, next to the algebraic one in terms of commutators.

*Joint work with Tim Van der Linden