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Primož Moravec* (primož.moravec@fmf.uni-lj.si), Fakulteta za matematiko in fiziko, 1000 Ljubljana, Slovenia. *Bogomolov multipliers of groups.*

The Bogomolov multiplier is a group theoretical invariant isomorphic to the unramified Brauer group of a given quotient space, and represents an obstruction to Noether's problem on rationality of fixed fields. In this talk we survey some recent results regarding Bogomolov multipliers. We describe a homological version of the Bogomolov multiplier, which relies on universality of certain commutator relations in groups. We exhibit a Hopf-type formula, find a five term exact sequence corresponding to this invariant, and describe the role of the Bogomolov multiplier in the theory of central extensions. An algorithm for computing the Bogomolov multiplier is outlined. (Received June 28, 2014)