

1106-46-1072

Sorin Popa* (popa@math.ucla.edu), Department of Mathematics, UCLA, Los Angeles, CA
90095. *Towards a good cohomology theory for II_1 factors.* Preliminary report.

Abstract. I will comment on the recent efforts to find a “good” 1cohomology theory for II_1 factors M , i.e. one that does not always vanish and that can detect properties of II_1 factors such as primeness, absence of Cartan subalgebras, infinite generation, etc. Ideally, such a theory should be calculable and in the case of group II_1 factors $M = L(\Gamma)$ it should reflect the cohomology theory of the group Γ . (Received September 10, 2014)