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Jörg Feldvoss* (jfeldvoss@jaguar1.usouthal.edu), Department of Mathematics and Statistics, University of South Alabama, Mobile, AL 36688-0002. *On the Cohomology of Modular Lie Algebras*. Preliminary report.

In this talk we will establish a connection between the cohomology of a finite-dimensional modular Lie algebra and its finite-dimensional p -envelopes. Then we will use this to compute the cohomology of the minimal p -envelopes of the graded Lie algebras of Cartan type with coefficients in generalized baby Verma modules and in simple modules over fields of prime characteristic p . (Received September 03, 2007)