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Lei Zhao* (lz4u@virginia.edu), Department of Mathematics, University of Virginia,
Charlottesville, VA 22903, and **Weiqiang Wang**. *Representations of Lie Superalgebras in Prime
Characteristic.*

We study the modular representation theory of basic classical Lie superalgebras and the queer Lie superalgebra over an algebraically closed field of characteristic $p > 2$. In particular, we formulate a superalgebra generalization of the celebrated Kac-Weisfeiler Conjecture, which exhibits a mixture of p -power and 2-power divisibility of dimensions of modules. We establish the Conjecture for basic classical Lie superalgebras, and for the queer Lie superalgebra with nilpotent p -characters. (Received September 11, 2008)