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Irfan Bagci* (ibagci@ung.edu). *On Whittaker modules for Lie superalgebras*. Preliminary report.

B. Kostant defined Whittaker modules for finite dimensional complex semisimple Lie algebras. Since then, a number of others have further developed the idea of Whittaker modules for Lie algebras. Whittaker modules for Lie superalgebras were defined by Bagci, Christodouloupoulou, and Weisner. Unlike the Lie algebra setting, simple finite-dimensional modules for a finite-dimensional nilpotent Lie superalgebra are not always one dimensional. This creates an additional challenge for producing Lie algebra results in the Lie superalgebra setting. For this reason we restrict to basic classical Lie superalgebras of type I. Recently, we have given a description of simple Whittaker modules for basic classical Lie superalgebras of type I. In this talk we will discuss the simple modules and a description of these modules for simple type I Lie superalgebras. (Received January 24, 2019)