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Erik A Insko* (einsko@fgcu.edu), 3040 Oasis Grand Blvd, Apt 1705, Ft Myers, FL 33916, and
Martha Precup. *Singularities of semisimple Hessenberg varieties.*

Semisimple Hessenberg varieties are subvarieties of the flag variety with important connections to representation theory, algebraic geometry, and combinatorics. Like Schubert varieties, the structure of semisimple Hessenberg varieties can be studied using the combinatorics of the symmetric group. In this talk, we will define these varieties and give a combinatorial criterion for identifying singular points in certain semisimple Hessenberg varieties. (Received July 17, 2017)