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David Kahle, Christopher O'Neill* (cdoneill@sdsu.edu) and **Jeff Sommars**. *Using Macaulay2 from within R: the M2R Package.*

The R package m2r provides a persistent interface to the algebra system Macaulay2, making it an ideal utility for algebraic statistics computations. In this talk, we will explore a variety of m2r functionality, and discuss several design decisions that make m2r easy to use for Macaulay2 novices but flexible enough to accommodate advanced usage by Macaulay2 experts. We will also preview some exciting new features currently under development. (Received February 17, 2020)