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James Sunkes* (sunkes@math.utk.edu), Department of Mathematics, University of Tennessee, Knoxville, TN 37996, and **Stefan Richter**. *Hankel Operators, Invariant Subspaces, and Cyclic Vectors in the Drury-Arveson Space*.

In this talk, I will sketch the proof that every nonzero invariant subspace of the d -shift on the Drury-Arveson space H_d^2 is an intersection of kernels of Hankel operators. I will then use this result to show that if f and $1/f \in H_d^2$, then f is cyclic in H_d^2 . This talk is based upon a joint paper with my advisor, Stefan Richter, entitled "Hankel operators, invariant subspaces, and cyclic vectors in the Drury-Arveson space." (Received September 17, 2015)