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Katherine Heller* (kheller@virginia.edu), Department of Mathematics, P.O. Box 400137,
University of Virginia, Charlottesville, VA 22904-4137. *Composition Operators on $S^2(\mathbb{D})$.*

Given $\varphi : \mathbb{D} \rightarrow \mathbb{D}$, an analytic map of the unit disc in \mathbb{C} , the composition operator C_φ is defined by $C_\varphi(f) = f \circ \varphi$ for f belonging to some Hilbert space of analytic functions on \mathbb{D} . In this talk, we will discuss properties of linear-fractionally induced composition operators and their adjoints on the Hilbert space of functions whose derivative is in the Hardy space, $H^2(\mathbb{D})$. (Received September 15, 2009)