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Multiplication Operators on S^2 . Preliminary report.

We investigate the multiplication operators acting on $S^2(\mathbb{D})$, the space of analytic functions on \mathbb{D} whose derivative is in $H^2(\mathbb{D})$. We characterize boundedness and compactness, establish estimates on the operator norm, and determine the spectrum. We study the commutant and the convexity of the bounded multiplication operators on S^2 . Lastly we characterize the isometric multiplication operators. (Received September 17, 2013)