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Matthew Fleeman* (mcfleema@mail.usf.edu) and **Dmitry Khavinson**. *Extremal Domains for Self-Commutators in the Bergman Space*.

In recent work, Olsen and Reguera have shown that Putnam's inequality for the norm of self-commutators can be improved by a factor of $\frac{1}{2}$ for Toeplitz operators with analytic symbol φ acting on the Bergman space $A^2(\Omega)$. This improved upper bound is sharp when $\varphi(\Omega)$ is a disk. In this talk we show that disks are the only domains for which the upper bound is attained. (Received January 23, 2014)