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Brian Simanek* (brian_simanek@baylor.edu), Baylor Math Department, One Bear Place #97328, Waco, TX 76798. *Hyponormal Toeplitz Operators Acting on the Bergman Space.*

An operator is called hyponormal if its commutator with its adjoint is positive definite. Such operators are of interest because of Putnam's inequality, which provides spectral estimates on such operators in terms of the norm of this commutator. We will consider operators that act on the Bergman space of the unit disk by multiplication by a bounded function (called the symbol) followed by a projection. Our focus will be on the case when the symbol is a certain non-harmonic algebraic function and we will determine when the operator is hyponormal. (Received February 02, 2018)