Debendra P Banjade* (dpbanjade@coastal.edu), Coastal Carolina University, Department of Mathematics, P.O. Box 261954, Conway, SC 29528, and Caleb D Holloway and Tavan T Trent. A Generalized Wolff’s Ideal Theorem on Certain Subalgebras of $H^\infty(D)$.

In 1962, L. Carleson proved his celebrated Corona Theorem characterizing when a finitely generated ideal of $H^\infty(D)$ is all of $H^\infty(D)$. Later, in 1980, T. Wolff extended Carleson’s result and partially generalized the Corona Theorem in $H^\infty(D)$. More recently, S. Treil provided the best known sufficient condition for the generalized Corona Theorem in $H^\infty(D)$. In this talk, we prove the generalized Wolff’s Ideal Theorem on certain uniformly closed subalgebras of $H^\infty(D)$ on which the Corona Theorem is already known to hold.

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