Debendra P Banjade* (dpbanjade@coastal.edu), Coastal Carolina University, Department of Mathematics and Statistics, P. O. Box. 261954, Conway, SC 29528. Estimates for the Corona Theorem on $H^\infty_I(D)$.

Let $I$ be a proper ideal of $H^\infty(D)$. We prove the corona theorem for infinitely many generators on the subalgebra $H^\infty_I(D)$, in which the corona theorem for finitely many functions is known to hold, for example in [2]. This settles the conjecture of Ryle [1]. Moreover, we prove a generalized Wolff’s Ideal Theorem for this subalgebra.

References:
