

Corona theorems and 1-positive square

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We will relate Bezout equations and multiplier algebras on reproducing kernel Hilbert spaces, whose reproducing kernels have 1-positive square. This leads to the following theorems, which will be discussed:

- (1) Best estimates in the matrix corona theorem
- (2) Corona theorem for Dirichlet space
- (3) Corona theorem for weighted Dirichlet spaces
- (4) Corona theorem for Drury-Arveson space.