962-47-1155 **Troy J Siemers*** (siemerstj@vmi.edu), 408 Mallory Hall, VMI, Lexington, VA 24450. On the equation $a\mathcal{H}(b) \cap b\mathcal{H}(a) = 0$. Preliminary report.

Explicit construction of certain function spaces is contingent on the overlap of certain subspaces. For S = b/a, where a and b are functions from the unit ball of H^{∞} , construction of the space $\mathcal{H}(S)$ from the subspaces $\mathcal{H}(b)$ and $S\mathcal{H}(a)$ depends on the intersection $a\mathcal{H}(b) \cap b\mathcal{H}(a)$ being zero. Properties of a and b for which this holds are discussed. (Received October 02, 2000)