

1070-30-157

**R. A. Hirschweiler\*** (rah2@unh.edu). *Composition Operators on Spaces of Fractional Cauchy Transforms.*

For  $\alpha > 0$ , the Banach space  $\mathcal{F}_\alpha$  is the collection of analytic functions  $f$  which can be represented as integral transforms of an appropriate kernel defined on the unit circle. Let  $\Phi$  be an analytic self-map of the disc and let  $C_\Phi$  denote the operator defined by  $C_\Phi(f) = f \circ \Phi$ . Conditions on an analytic self-map  $\Phi$  will be shown to imply that the operator  $C_\Phi$  is bounded on  $\mathcal{F}_\alpha$  in the case  $0 < \alpha < 1$ . (Received February 08, 2011)