LOCAL OPERATORS AND A CHARACTERIZATION OF THE VOLterra OPERATOR

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Abstract. We consider locally defined operators of the form $D^n \circ K$, where $D$ is the operator of differentiation and $K$ maps the space of continuous functions into the space of $n$-times differentiable functions. As a corollary we obtain a characterization of the Volterra operator. Locally defined operators acting in the space of analytic functions are also discussed.

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