ICM 1998, Berlin, Aug. 18–27

Abstracts of Short Communications and Posters

Section:

8. Analysis

1991 MS Classification: 47B38
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Topological structure of the space of composition operators on H^∞

Components and isolated points of the topological space of composition operators on H^∞ in the uniform operator topology are characterized. Compact differences of two composition operators are also characterized. With the aid of these results, we show that a component in $\mathcal{C}(H^\infty)$ is not the set of all composition operators that differ from the given one by a compact operator.