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# Abstracts of Short Communications and Posters

## Section:

## 8. Analysis

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**A comparison theorem concerning hyperinvariant subspaces on finitely connected domains**
Let $\Omega$ be a finitely connected domain, and $X$ a (quasi) Banach space of analytic functions on $\Omega$. We prove a theorem which converts the study of hyperinvariant subspaces of $X$ into the study of those of $X_1$ where $X_1$ is some similar space on $\Omega_1$, a simply connected domain obtained from $\Omega$ by adding some of the bounded components of $\mathbb{C} \setminus \Omega$. Let $M(X)$ denote the multiplier space consisting of those $f$ for which $f \cdot X \subset X$. Then (under some reasonable conditions) $I \mapsto clos(I \cdot M(X))$ supplies a one-to-one correspondence between a class of hyperinvariant subspaces of $X_1$ and a class of hyperinvariant subspaces of $X$. Furthermore the inverse mapping is given by $J \mapsto J \cap X_1$. This result is joint work with H. Hedenmalm.