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Hyperinvariant Subspaces for some Operator-Weighted Bilateral Shifts.

In a sequence of four recent papers, it was eventually shown that the hyperinvariant-subspace lattice $\text{Hlat}(T)$ of an arbitrary nonalgebraic operator T on Hilbert space is lattice-isomorphic to $\text{Hlat}(A)$ for some A in a special class (\mathcal{A}_θ) of operators. In this note, which might be regarded as a first step in an attempt to better understand the structure of the class (\mathcal{A}_θ) , we construct and study a certain subclass (\mathcal{S}_θ) of this collection consisting of some operator-weighted bilateral shifts. (Received September 27, 2006)