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Stable Invariant Subspaces.

In this talk we consider "stable invariant subspaces" of an operator T on a Hilbert space H . An invariant subspace M for T is said to be stable if all nearby operators of T have invariant subspaces "close" to M . In finite dimensions stable invariant subspaces were introduced and characterized by Bart, Gohberg and Kaashoek. They were studied in infinite dimensions by Apostol, Foias and Salinas and more recently by Conway and Hadwin. We will present the required background, some known results, and some of our new results in this area. (Received February 24, 2007)