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FACTORIZATION THEOREMS OF BACKWARD SHIFTS AND NUCLEAR MAPS

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Abstract

The theory of compact linear operators between Banach spaces has a classical core and is familiar to many. Perhaps lesser known is the factorization of compact maps through a closed subspace of c_0 [2]. This factorization theorem has a number of important connections and consequences analogous to how the ideals of continuous linear operators factoring compactly through l_p -spaces ($1 \leq p < \infty$) (see [1] and the references therein). In this talk, even though hypercyclic operators are not compact, we consider operator ideals generated by hypercyclic backward weighted shifts and examine their factorization properties.

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Time: 14:00

Place: IMBM at Boğaziçi University, South Campus