CORRECTION TO "THE EXISTENCE OF INVARIANT SUBSPACES"

BY LOUIS DE BRANGES AND JAMES ROVNYAK

Communicated by P. R. Halmos, January 4, 1965

The proof of the existence of invariant subspaces announced in this Bulletin 70 (1964), 718-721, is false. We now withdraw the announcement and make no statement either for or against the existence of invariant subspaces. We would like to express our thanks to the many people who have read the paper and commented to us on it, and in particular to Dr. P. A. Fillmore of Indiana University, who discovered the gap.
Added in proof. The announced theory of characteristic operator functions is, however, correct and does yield existence theorems for invariant subspaces whenever characteristic operator functions can be suitably factored. It does yield the existence of invariant sub-spaces for transformations T> which are bounded by 1, when 1 — T* T is completely continuous. This result does not seem to have been obtained by other methods.

PURDUE UNIVERSITY

ADDENDUM TO AN EXTENSION OF THE MARCINKIEWICZ INTERPOLATION
THEOREM TO LORENTZ SPACES1

BY RICHARD A. HUNT

Communicated by A. Zygmund, January 11, 1965

It has been pointed out that A. P. Calderón has proved the main theorem of our paper in the special cases p, q^l and T a linear operator. He presented this result in several lectures.

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Bull. Amer. Math. Soc. 70 (1964), 803-807.

ADDENDA

There were 196 registrants at the November meeting in Athens, 135 of whom were members of the Society.

Professor Kai Lai Chung's name was inadvertently omitted from the volume index in the November Bulletin. It should have been listed under the Invited Addresses, with reference to p. 241.

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