Title: Some new characterizations of Bloch type spaces of infinite matrices via Schur multipliers

Author(s): Anca N. Marcoci, Liviu G. Marcoci, Lars-Erik Persson and Nicolae Popa

We consider the infinite matrix version $B(D, \ell_2)$ of the Bloch space. In this paper we complement the results in the recent book [18] by deriving some new characterizations of $B(D, \ell_2)$ and related spaces and duals via Schur multipliers. As applications we find the largest solid subspace of $B(D, \ell_2)$ and its “conjugate” space $\mathcal{I}(\ell_2)$ considered in [18] and [19].

Address:
Anca N. Marcoci
Department of Mathematics
and Computer Science
Technical University
of Civil Engineering Bucharest
RO-020396, Bucharest
Romania

Address:
Liviu G. Marcoci
Department of Mathematics
and Computer Science
Technical University
of Civil Engineering Bucharest
RO-020396, Bucharest
Romania

Address:
Lars-Erik Persson
Department of Engineering
Sciences and Mathematics
Luleå University of Technology
SE-97 187, Luleå
Sweden
and
Narvik University College
P.O. Box 385, N-8505 Narvik
Norway

Address:
Nicolae Popa
Institute of Mathematics
of Romanian Academy
RO-014700 Bucharest, P.O. Box 1-764
Romania