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Operator equations and Spectral Problems

Abstract

The multiplication operators are the linear operators induced by multiplication by some fixed function. One of the important fact which motivates the study of multiplication operators is that every normal operator is similar to a multiplication operator. The another motivational fact that makes the study of multiplication operators interesting as well as demanding is its close association with various classes of operators, particularly, Toeplitz operators, Hankel operators and Composition operators. Multiplication operators have been a matter of study in operators theory over the years and these operators on different function spaces have been studied by several mathematicians. We talk about some operator equations involving these operators and discuss some spectral problems.

Talk time: 2016-07-21 14:30— 2016-07-21 14:50

Talk location: Cupples I Room 215

Session: Operator theory, singular integral equations, and PDEs. Organized by R. Duduchava, E. Shargorodsky, and J. Lang