On a class of boundary control systems

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We study a class of abstract boundary control systems in a Hilbert space setting, employing the theory of extrapolation spaces for boundedly invertible operators. We show the well-posedness of the problem and state a criterion for the conservativity of the system. The theory will be exemplified by a boundary control problem for Maxwell's equations.

The talk is based on a joint work with R. Picard and M. Waurick.