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Minisymposium 15 - Operatortheorie

Boundary control of flows in networks

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We investigate a boundary control problem on a network. We study a transport equation in the network, controlling it in a single vertex. We describe all the possible reachable states and prove a criterium of Kalman type for the vertices in which the problem is controllable. This is joint work with Marjeta Kramar Fijav (Ljubljana), Rainer Nagel (Tübingen) and Eszter Sikolya (Budapest).