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Null Controllable Systems with Vanishing Energy

The talk is concerned with infinite dimensional, linear, control systems. Conditions are presented under which arbitrary state can be transferred to the origin with arbitrarily small energy. The energy of a control is defined as its L^2 -square norm. Both classical and boundary control system are considered. Abstract results are illustrated with specific examples.

The presentation is based on joint works with L. Pandolfi and E. Priola.