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Stabilization for a type of uncontrollable systems

In this talk, we will study the problem of stabilization of a kind of system in finite dimension, which has some uncontrollable directions, finding an explicit feedback law that stabilizes the system to zero. Some examples will be showed. Later, we extended this problem to an infinity dimensional control problem, more specifically the Korteweg-de Vries equation on the interval $[0, L]$ with a length that makes the lineal system uncontrollable, obtaining the stabilization of the system to zero.