

Control properties of a parabolic-elliptic system

22nd, September

Abstract: In this talk we consider a one-dimensional parabolic-elliptic system with one boundary control acting on the parabolic equation. We first study the null controllability property and then the stabilization in presence of a time-delay. Among the used methods we can mention controllability-observability duality, Carleman estimates, minimization of functionals, pole placement method, and Artstein transform.