THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY

Department of Mathematics

SEMINAR ON APPLIED MATHEMATICS

Characterization of complete stabilizability for linear systems

By

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Abstract

In this talk, we present a sufficient and necessary condition ensuring the complete stabilization for a linear control system [A,B], where A generates a semigroup on a Hilbert space X, and B is a linear and bounded operator from another Hilbert space U to X. This condition is characterized by some weak observability inequalities. The result is extended to the case where B is unbounded. Some applications are given.

> Date   : **30 June 2023 (Friday)**
> Time   : **11:00am – 12:00nn**
> Venue : **Room 5501 (Lifts 25/26)**

All are Welcome!