



The Hong Kong University of Science and Technology

Department of Mathematics

Seminar on Applied Mathematics

Maximum principle for optimal controls

by

Prof. Gengsheng WANG
Tianjin University

Abstract

We focus on minimal time control problems. We derive maximum principle by geometric method. Several kinds of maximum principles are defined.

One of them is the standard Pontryagin maximum principle, while other two are new ones, which are called the local maximum principle and the weak maximum principle. Connections of these principles are explained, with the aid of examples.

We obtain these maximum principles through separating different objects in different spaces.

Date: Friday, 27 April 2018

Time: 3:00p.m. – 4:00p.m.

Venue: Room 5506 (Lifts 25, 26), Academic Buildings, HKUST

All are welcome!