



THE HONG KONG UNIVERSITY OF SCIENCE TECHNOLOGY

Department of Mathematics

***MATHEMATICS COLLOQUIUM***

**Norms of Polynomials with Restricted Coefficients**

By

**Prof. Stephen CHOI**

*Simon Fraser University*

**Abstract**

In this talk, we will explore polynomials with restricted coefficients, focusing particularly on Littlewood polynomials, which are defined as polynomials that have coefficients of either  $+1$  or  $-1$ . We will discuss various problems and results related to the norms of these Littlewood polynomials. In addition, we will cover recent developments regarding the autocorrelations of Rudin-Shapiro polynomials and their generalizations. This topic is also closely related to the merit factor problem of finite binary sequences.

**Date : 13 November 2026 (Friday)**

**Time : 3:00pm - 4:00pm**

**Venue : Lecture Theatre K (near Lift 31/32)**

*All Are Welcome!*