

THE UNIVERSITY



OF HONG KONG

*Institute of Mathematical Research  
Department of Mathematics*

**COLLOQUIUM**

## **Standard Monomial Theory**

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### Abstract

Hodge gave canonical bases for the homogeneous coordinate rings of the Grassmann variety, as well as its Schubert varieties for the canonical Plücker embedding of the Grassmannian in the projective space. The generalisation of this theory to the flag varieties associated to a semi-simple algebraic group  $G$ , is known as “standard monomial theory” and it gives, in particular, explicit bases for finite dimensional representations of  $G$ .

<b>Date:</b>	<b>January 24, 2003 (Friday)</b>
<b>Time:</b>	<b>4:00 – 5:00pm</b>
<b>Place:</b>	<b>Room 517, Meng Wah Complex</b>

*Tea will be held in Room 516, Meng Wah Complex before the lecture, at 3:40pm*

*All are welcome*