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## Joint Statistics Seminar

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*The Hong Kong University of Science and Technology*

# Genomics and Variable Selection

*by*

**Professor Kjell A. Doksum**  
University of Wisconsin  
Madison

**Date: June 18, 2010 (Friday)**

**Time: 4:00 p.m. - 5:00 p.m.**

**Venue: Room 3408 (Lift 17/18)**

### Abstract

Will describe methods used by population geneticists and medical geneticists to analyse associations between disease and genetic markers. These methods are able to handle data with hundred of thousands of variables by using dual principal component analysis. I will describe these methods as well as competitive frequentist and Bayesian methods from the field of statistics. Comparisons between the procedures will be made using simulation studies based on generating data from a model suggested by population geneticists.

❖ *All interested are welcome!* ❖  
*For details, please contact ISOM Department.*