

THE UNIVERSITY



OF HONG KONG

*Institute of Mathematical Research  
Department of Mathematics*

## **GEOMETRY SEMINAR**

# **On a normal form for holomorphic maps between hyperquadrics**

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### **Abstract**

In this talk, we discuss a joint paper with S. Baouendi and P. Ebenfelt. We give a complete classification for holomorphic maps, which are not totally degenerate, sending a hyperquadric of signature  $\ell$  in the complex space of dimension  $n$  into a hyperquadric of signature  $\ell'$  in the complex  $N$ -space in case  $\ell' - \ell$  is small. The approach uses the Chern-Moser theory and some methods developed in [X. Huang, JDG, 1999].

**Date:** January 11, 2011 (Tuesday)

**Time:** 4:00 – 5:00pm

**Place:** Room 210, Run Run Shaw Bldg., HKU

*All are welcome*