

THE UNIVERSITY



OF HONG KONG

*Institute of Mathematical Research  
Department of Mathematics*

# COLLOQUIUM

## Direct Limits of Lie Groups and Homogeneous Spaces

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### **Abstract**

Direct limits of finite dimensional groups and homogeneous spaces are the least complicated of the infinite dimensional ones. Their theory has been developed extensively over the last 20 years from the viewpoints of differential geometry, algebraic geometry and harmonic analysis. I'll try to indicate the background and some of the recent developments in geometry and analysis on direct limits of flag manifolds and symmetric spaces.

**Date:** February 13, 2009 (Friday)

**Time:** 4:00 - 5:00pm

**Place:** Room 517, Meng Wah Complex, HKU

*All are welcome*