

THE UNIVERSITY



OF HONG KONG

*Institute of Mathematical Research  
Department of Mathematics*

## **Geometry Seminar**

### **Cartan-Kähler Theorem and its Applications**

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#### **Abstract**

Cartan-Kähler Theorem is a powerful existence theorem concerning the integral manifolds of an exterior differential system. It can be considered as a generalization of the Frobenius Theorem in which only Pfaffian Systems are concerned. The seminar will focus on the construction and applications of the theorem. Proofs will only be given when necessary.

**Date:** April 22, 2004 (Thursday)

**Time:** 4:00 – 5:00pm

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

*All are welcome*