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# Seminar

## **On some degenerate variational problems**

*Professor Pierre Bousquet*  
Institut de Mathématiques de Toulouse

Abstract: We present some regularity results for two scalar problems in the multiple integrals calculus of variations. In the first problem, we establish the global Lipschitz continuity of minimizers when the degeneracy of the Lagrangian is localized in a ball. In the second problem, the degeneracy is localized along the axes of  $R^N$  and we prove a local Lipschitz continuity result. This is a joint work with Lorenzo Brasco and Vesa Julin.

Date: 22 February 2016 (Monday)  
Time: 2:00 p.m. – 3:00 p.m.  
Venue: Room 222, Lady Shaw Building  
The Chinese University of Hong Kong, Shatin

*All are Welcome!*