



COLLÈGE  
DE FRANCE  
— 1530 —

CHAIRE DE PHYSIQUE DE LA MATIÈRE CONDENSÉE

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Antoine GEORGES  
Professeur

Fermions en interaction : Introduction à la théorie  
du Champ Moyen Dynamique

Cours les mardis 7, 14, 21 et 28 mai, 11 juin à 9h30,  
suivis du séminaire à 11h30

Amphithéâtre Guillaume Budé

## Séminaire Exceptionnel

**Mercredi 22 mai 2019, 11h00**

Salle 5, 11 place Marcelin Berthelot 75005 Paris

**Andrew J. Millis**

*Columbia University  
and CCQ-Flatiron Institute, Simons Foundation, New York*

### ***Correlated Electrons and the Lattice***

The “Mott” (correlation-driven) metal-insulator transition is a topic of fundamental and continuing interest in condensed matter physics. It has long been known that metal-insulator transitions in most materials are accompanied by changes in crystal structure and atomic positions and may be affected by strain. In this talk I outline recent progress towards a comprehensive understanding and show how the results assist in the understanding of recent experiments on strain and current controlled metal-insulator transitions and microstructure formation.

