

**Programme de la Journée *Matériaux Quantiques sur la Montagne*
du 04 Décembre 2017**

Lieu : Salle 2 du Collège de France

9h15-9h30 Introduction

9h30-10h15 L. de Medici, LPEM, ESPCI
Hund's correlated physics: some prospects

10h15 -11h00 R. Lobo, LPEM, ESPCI
The optical conductivity of the unconventional normal state of iron based superconductors and changes in the gap across the phase diagram

Pause café : 11h00-11h15

11h15-12h00 I. Paul, MPQ, Université Paris Diderot
Critical elasticity and superconductivity in the iron based systems

12h00-12h45 C. Collignon, LPEM, ESPCI
Superfluid density across the superconducting dome of $Sr_{1-x}Nb_xTiO_3$

12h45-14h15 Déjeuner sur la terrasse du Collège de France

14h15-15h00 A. Subedi, CPhT and CdF
Nonlinear phononics as a new method for controlling materials properties and generating fake news

15h00-15h45 A. Sacuto, MPQ, Université Paris Diderot
Interplay between the Pseudogap and Superconductivity in hole doped cuprates

15h45-16h30 M. Ferrero, CdF
Pseudogap and Fermi surface topology in the two-dimensional Hubbard model

16h30 Café-Discussion au 1er étage du Bat E du Collège de France