

# MC05. Collective excitation in exotic quantum state of condensed matter

Organisateurs : Matteo d'Astuto, Marie-Aude Méasson and Victor Baledent

**Lundi 22 août - 14h15- 17h45**

**14:15 - 14:45**    **Exotic excitations and phase transitions in one and quasi-one dimensional systems**

**INVITÉ**    **Thierry Giamarchi**  
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**MC5-1**

**14:45 - 15:05**    **From quantum spin liquid to long range order in the distorted kagome compound,  $Y_3Cu_9(OH)_{18} OCl_8$**

**MC5-2**    **D. Chatterjee**, P. Puphal, E. Kermarrec, Ph. Mendels, F. Bert  
*Laboratoire de Physique des Solides, Université Paris-Saclay, France. dipranjan.chatterjee@universite-paris-saclay.fr*

**15:05 - 15:25**    **Magneto-electric excitations in spin ices**

**MC5-3**    **Y. Alexanian**, V. Simonet, R. Ballou, J. Robert, C. Decorse, J. Debray, F. Gay, S. De Brion  
*Institut Laue-Langevin, 38 000 Grenoble, France. alexanian@ill.fr*

**15:25 - 15:45**    **Point-Contact Spectroscopy : a versatile tool for the study of low-energy excitations and electron-boson coupling in materials**

**MC5-4**    **H. Cercellier**, F. Condaminas, Th. Klein  
*Université Grenoble Alpes et CNRS, Institut Néel, F-38000 Grenoble, France. herve.cercellier@neel.cnrs.fr*

**15h45-16h15**    **Coffee break**

**16:15 - 16:45**    **Charge order and Strange metals in cuprate superconductors**

**INVITÉ**    **C. Pépin**  
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**MC5-5**

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| <b>16:45 -<br/>17:05</b> | <b>Bulk charge density wave and electron-phonon coupling in superconducting copper oxychlorides</b>  |
| <b>MC5-6</b>             | L. Chaix, B. Lebert, H. Miao, A. Nicolaou, F. Yakhou, H. Cercellier, S. Grenier, N. B. Brookes, A. Sulpice, S. Tsutsui, A. Bossak, L. Paolasini, D. Santos-Cottin, H. Yamamoto, I. Yamada, M. Azuma, T. Nishikubo, T. Yamamoto, M. Katsumata, M. P. M. Dean, M. d'Astuto<br><i>Univ. Grenoble Alpes, CNRS, Grenoble INP, Institut Néel, Grenoble, France.</i><br><i>laura.chaix@neel.cnrs.fr</i> |
| <b>17:05 -<br/>17:25</b> | <b>Low-energy Collective Mode and Quantum Fluctuations in High-Tc Cuprates</b>   |
| <b>MC5-7</b>             | <b>G.Setnikar</b> , J. Buhot, M. Prosnikov, S. Badoux, C. Putzke, A. Carrington, J.Pecaut, M. D'Astuto, N. E. Hussey, M.-A. Méasson<br><i>Univ. Grenoble Alpes, CNRS, Grenoble INP, Institut Néel, Grenoble, France.</i><br><i>gregory.setnikar@proton.me</i>  |
| <b>17:25 -<br/>17:45</b> | <b>Incommensurate Systems as Model Compounds for Disorder Revealing Low-Temperature Glass like Behavior</b>  |
| <b>MC5-8</b>             | <b>J.E. Lorenzo</b> , G. Reményi, S. Sahling, K. Biljakovic, D. Staresinic, J.-C. Lasjaunias, P. Monceau, A. Cano<br><i>Univ. Grenoble Alpes, CNRS, Grenoble INP, Institut Néel, Grenoble, France.</i><br><i>emilio.lorenzo@neel.cnrs.fr</i>   |