

# Dipolar Quantum Gases Workshop

September 30<sup>th</sup> - October 1<sup>st</sup>, 2009

Universität Stuttgart, Pfaffenwaldring 57, 70569 Stuttgart, Room 2.136

## Wednesday, September 30<sup>th</sup>, 2009

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**13:30 – 14:05** G. Shlyapnikov (Laboratoire de Physique Theorique et Modeles Statistique, Universite Paris-Sud XI )  
*"New quantum phases of fermionic polar molecules"*

**14:05 – 14:30** discussion

**14:30 – 15:00** coffee break

**15:00 – 15:35** L. Santos (Institut für Theoretische Physik, Universität Hannover)  
*"Dipolar gases: From spinor gases to polar molecules"*

**15:35 – 16:00** discussion

**16:00 – 16:35** M. Fattori (European Laboratory for Non-Linear Spectroscopy (LENS), University of Florence)  
*"Magnetic Dipolar Interaction in a Bose-Einstein Condensate Atomic Interferometer"*

**16:35 – 17:00** discussion

**17:00 – 17:35** M. Lewenstein (Institut de Ciències Fotòniques (ICFO) Barcelona)  
*"Dipolar quantum systems - recent progress at ICFO "*

**17: 35 – 18:00** discussion

## Thursday, October 1<sup>st</sup>, 2009

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**09:00 – 09:35** T. Lahaye (IRSAMC - Universite Paul Sabatier, Toulouse)  
*"Mesoscopic dipolar BECs in triple well potentials"*

**09:35 – 10:00** discussion

**10:00 – 10:30** coffee break

**10:30 – 11:05** C. Menotti (Istituto Nazionale per la Fisica della Materia, Trento)  
*"Paired phases of dipolar bosons in optical lattices"*

**11:05 – 11:30** discussion

**11:30 – 12:05** D.-W. Wang (National Center for Theoretical Science and National Tsing-Hua University)  
*"Itinerary Ferro-electricity of polar molecules"*

**12:05 – 12:30** discussion

**12:30 – 13:00** T. Pfau (Universität Stuttgart) – *Concluding remarks*