Olivier MORIZOT

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Born in Nice, 17/06/1981
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STUDIES

2003-2006 Ph.D. Thesis « **Very anisotropic radiofrequency traps for a Bose-Einstein condensate** » in the team of Hélène PERRIN and Vincent LORENT at the Laboratoire de Physique des Lasers (Villetaneuse, France).

2000-2003 Institut d'Optique Graduated School (Orsay, France).

PUBLICATIONS

"Ultacold atoms confined in rf-induced two-dimensional trapping potential".
Y. Colombe, E. Knyazchyan, O. Morizot, B. Mercier, V. Lorent and H. Perrin.
Europhys. Lett. **67** , 593 (2004).

"A ring trap for ultracold atoms".
O. Morizot, Y. Colombe, V. Lorent, H. Perrin and B.M. Garraway.
Phys. Rev. A **74**, 023617 (2006)

"Continuous transfer and laser guiding between two cold atom traps".
E. Dimova, O. Morizot, G. Stern, C.L. Garrido Alzar, A. Fioretti, D. Comparat, H. Perrin and P. Pillet.
Euro. Phys. Journal D ***42***, 299 (2007)

"Agile low phase-noise rf sine wave generator applied to experiments on ultracold atoms"
O. Morizot, J. de Lapeyre de Bellair, F. Wiotte, O. Lopez, P.-E. Pottie and H. Perrin.
Submitted to Rev. Sc. Instr. (arXiv:0704.1974v1)

"Trapping and cooling of rf-dressed atoms in a quadrupole magnetic field"
O. Morizot, C.L. Garrido Alzar, V. Lorent and H. Perrin.
Submitted to Euro. Phys. Journal D

"Condensation de Bose-Einstein et basse dimensionnalité"
H. Perrin, O. Morizot, C.L. Garrido Alzar, P.-E. Pottie, and V. Lorent.
Journal de Physique IV (Proceedings), Volume **135**, Issue 1, 255 (2006)

MEETINGS & SCHOOLS

First prize of the Université Paris 13 Scientific Department Doctoral Day, for the poster "*Bose-Einstein condensate confined in 2 dimensions*", May 2005.
Second prize for the poster of physical interest, Doctoriales Université de Cergy, September 2006.

Invited Talks: "*Bose-Einstein condensates and rf-induced traps*" – FORTH / IESL (Heraklion, Greece), July 2006.
"*Very anisotropic radiofrequency traps for a Bose-Einstein condensate"* – Tata Institute of Fundamental Research (Mumbai, India), January 2007.
"*Bose-Einstein condensation and low dimensions"* – Raman Research Institute (Bangalore, India), February 2007.

Talks: **YAO 2005** (Hannover, Germany), **Indo-French Workshop** 2006 (Bangalore, India), **CAMS/Jobs** 2006 (Sondenborg, Denmark).

Posters: **Predoc School on laser cooling and BEC** 2004 (Les Houches, France), **YAO 2004** (Innsbruck, Austria), **Atom/Surface meeting** 2004 (Les Houches, France), **PAMO 2006** (Dijon, France) .

EXPERIENCE

January-February 2007 Took part to the **first BEC of India** realized in Dr. Unnikrishnan's team at the Tata Institute of Fundamental Research (Mumbai, India). Collaborated on Dr. Hema Ramachandran's cold atoms experiment at the Raman Research Institute (Bangalore, India).

March-August 2003 **Conception and realization of a Magneto-optical trap fed by a rubidium dispenser** with Prof. Vincent LORENT at the Laboratoire de Physique des Lasers (Villetaneuse, France).

Winter 2002 **Study of the beam splitters of an interferometer for a spatial telescope** with Prof. Alain LEGER at the Institut d'Astrophysique Spatiale (Orsay, France).

Summer 2002 **Conception of an Achromatic Interferometric Coronograph** with Prof. Jean GAY at the Observatoire de la Côte d'Azur (Nice, France).

LANGUAGES

English – fluent (TOEFL)
Spanish – good
Greek – beginner

COMPUTER SCIENCE

Fortran, Oslo, Mapple, Matlab, Mathematica, LaTex, C++.