

Curriculum Vitae

MASSON Laurence Professor, PR1, section CNU 28
Aix-Marseille Université CINaM UMR 7325
Web page : <http://www.cinam.univ-mrs.fr/cinam/le-centre/annuaire/fiche-personnel/?idu=89#online>

43 publications - 12 invited talks

Executive board :

Since 2020: head of the team 2D ASAP (bidimensional Architectures Self Assembled and Properties)

2015-2018: member of the executive board of CINaM UMR 7325

2015-2018: head of a research department at CINaM

2018 : "Nanomaterials" - 32 permanent people

2015-2017: "Science and technology of nano-objects" - 23 permanent people

Since 2012: member of the Department of Physics council – Aix-Marseille University

Supervision of PhD students/post-docs :

2016-2019: M. Daher Mansour, PhD student (supervision)

2007-2010: M. Macé, PhD student (co-supervision)

2007-2011: S. Massou, PhD student (co-supervision: 25%)

2005-2008: H. Sahaf, PhD student (co-supervision: 25%)

1995-1998: D. Albertini, PhD student (co-supervision: 25%)

March 2012-march 2013: I. Beinik, Post-doc (supervision)

Sept. 2009-sept. 2011: H. Sahaf, Post-doc (co-supervision)

April 2007-nov. 2011 : E. Moyen, Post-doc (co-supervision)

Jan. 2007-august 2007: C. Léandri, Post-doc (supervision)

Teaching:

Since 2018: Head of the Master Nanosciences and Nanotechnologies

In charge of the creation of this master, opened in september 2018

Executive team of the master (management, organization): 4 teachers-researchers

For the academic year 2019-20: M1: 42 students, M2: 37 students.

Previous positions

1995-2015 : MCF Aix-Marseille University GPEC/CRMEN/CINaM (fusion of Lab.)

Education:

2007 : Habilitation à Diriger des Recherches in Material Sciences – Aix-Marseille University 2

1991-1994 : PhD in Solid State Physics – Orsay University (PARIS 11)/CEA Saclay

1990-1991: D.E.A. Solid State Physics – Orsay University (PARIS 11)

1988-1991: Magistère de Physique d'Orsay – Orsay University (PARIS 11)

Current Grants :

2018-2022: ANR PRC CHAMAN (*CHarge MANipulation of single nanoparticles on insulating surfaces*). 5 person.month

Coordinator: David Martrou (CEMES – Toulouse)

5 most relevant publications :

1. *Si nanoribbons on Ag(110) studied by grazing incidence x-ray diffraction, scanning tunneling microscopy, and density functional theory: evidence of a pentamer chain structure*

G. Prévot, C. Hogan, T. Leoni, R. Bernard, E. Moyen, and L. Masson

Phys. Rev. Lett. 117, 276102 (2016). DOI: 10.1103/PhysRevLett.117.276102

2. *Magnetic properties of self-organized Co dimer nanolines on Si/Ag(110)*

L. Michez, K. Chen, F. Cheynis, F. Leroy, A. Ranguis, H. Jamgotchian, M. Hanbücken, and L. Masson

Beilstein J. Nanotechnol. 6, 777 (2015). *Beilstein J. Nanotechnol.* 6, 777 (2015). DOI: 10.3762/bjnano.6.80

3. *KCl ultra-thin films with polar and non-polar surfaces grown on Si(111)7×7*

I. Beinik, C. Barth, M. Hanbücken, and L. Masson

Sci. Rep. 5, 8223 (2015). DOI: 10.1038/srep08223

4. *Large differences in the optical properties of a single layer of Si on Ag(110) compared to silicene*

Y. Borensztein, G. Prévot, and L. Masson

Phys. Rev. B 89, 245410 (2014). DOI: 10.1103/PhysRevB.89.245410

5. *Growth of Si ultrathin films on silver surfaces: Evidence of an Ag(110) reconstruction induced by Si*

R. Bernard, T. Leoni, A. Wilson, T. Lelaidier, H. Sahaf, E. Moyen, L. Assaud, L. Santinacci, F. Leroy,

F. Cheynis, A. Ranguis, H. Jamgotchian, C. Becker, Y. Borensztein, M. Hanbücken, G. Prévot, and L. Masson

Phys. Rev. B (R), 88, 121411 (2013). DOI: 10.1103/PhysRevB.88.121411