



**Fabien Louvet**

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EDUCATION

- 2005-2010 French Top School « EPF Sceaux » (rank 5 out of 200 students)
- 2010 Semester at the Canadian Top School Ecole Polytechnique de Montréal (physics departement)
- 2011-2014 From 2011 to 2014 : Preparation of a PhD from University Paris 11
- 2014-2016 Since november 2014 : Postdoctorat position at the University of Chile

WORK EXPERIENCE

- 10/11 – 09/14 **CEA of Saclay**, Thesis in astrophysics, specialised in high-mass star formation. Use of space telescope (Herschel) and ground based facilities : IRAM/PdBI ; IRAM/30m ; CSO to study both fragmentation and kinematics in high density filaments. Study of the dependence of star efficiency on the cloud density. Comparison with statistical SFR models. Study of low-velocity shocks from colliding flows and high-velocity shocks from outflows. Use of shock models by Flower & Pinot des Forêts to analyse data.
- 06/11 – 10/11 **ESO in Munich** Interferometric study of circumstellar disks around low-mass Class 0 protostars. Work in the uv-plane to illustrate the existence of circumstellar disk around NGC1333-MM1.
- 06/10 – 11/10 **CEA in « Bruyères le Châtel »**. Analytic study of the Rayleigh-Taylor instability. Use of Lie symetries and Burgand-Feix-Munier transformations. Programming of simple analytical simulations to verify the analytic derivations.
- 2009 **COMPAGNEROS PROJECT** Chief project (9 persons) on a collaboration between 3 schools to propose a technical response facilitating the integration of deafs in companies. This study was ordered by Air-France (french airline) / La Poste (french post) / Le crédit agricole (french bank)
- 2006 – 2009 **HOSPITAL**, Temporary work in geriatric and laundry departements
- 2008 – 2009 **Teacher for ACADOMIA**, private lesson in mathematics and physics for high-school students

INFORMATIC SKILLS

GILDAS package for the reduction and analyse of IRAM/30m and IRAM/PdBI data

Notions of CASA for reduction of ALMA data

Programming in Python, experience with codes up to 500 lines

LaTeX, with the use of TeX MAKER

Gnuplot, Office Package, Prezi

LANGUAGE

French		Native
English		International mastery: 920 at the TOEIC exam
Spanish		Loading...
German		School-level
Chinese		School-level + language study vacation (in 2012)

HOBBIES

SPORTS: Hand-Ball for 10 years, Running (including competition), Football  
Scouting  
Volunteer for « Solidarité Sida »,  
Reading (classics), Movies

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LIST OF PUBLICATION

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**Louvet, F.**, Motte, F., Hennebelle, P. et al., arXiv 1404.4843  
Nguyen Luong, Q., Motte, F., Carlhoff, P., **Louvet, F** et al. 2013, ArXiv e-prints  
Hill, T., André, P, [...] **Louvet, F** [15<sup>th</sup>] et al. 2012a, A&A, 548, L6  
Hennemann, M., Motte, [...] **Louvet, F** [11<sup>th</sup>] 2012, A&A, 543, L3  
Motte, F., Nguyen-Luong, Q., [...] **Louvet, F.** [10<sup>th</sup>] resubm. to A&A