

## Isabelle Boisse

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date and place of birth: 28/06/1982, Talence (France)

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Rua das Estrelas, 4150-762 Porto, Portugal  
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### WORK EXPERIENCE

- Oct. 2010 - ... : **Post-doctorat** with N.C. Santos at the Centro de Astrofísica da Universidade do Porto (CAUP), Porto, Portugal
- Sept. 2007- Sept. 2010 : **PhD thesis** : *Doppler spectroscopy diagnostics for research and characterization of exoplanets* with Pr. Bouchy F. and Pr. Hébrard G., at the Institut d'Astrophysique de Paris (IAP), Paris, France  
**Teaching assistant** (practical work and tutorial) in physics to L1 and L2 students at University Pierre & Marie Curie, Paris, France, 64 hours/year (3 years)
- April - June 2007 : **Research training period** : *Characterization of stellar activity and metallicity in the search for exoplanets with high-precision radial velocimetry* with Pr. Bouchy F. and Pr. Hébrard G., IAP, Paris, France
- April - July 2006 : **Research training period** : *Image processing of adaptive optics applied to the research of the Neptune's arcs* with Pr. Dumas C., ESO Santiago, Chile, and Pr. Sicardy B., LESIA, Observatoire de Meudon, France
- Oct. 2005 - Feb. 2006 : **Teaching training period** in a high school: Lycée Voltaire, Paris (weekly preparation and instruction of physics classes to high school students) with M. Verdon
- May - June 2005 : **Research training period** : *Looking for sources for UHECRs (Ultra high energy cosmic rays)* with Pr. Sigl G., IAP, Paris, France

### EDUCATION

- 2011 : **Qualification** to be teaching assistant in Physics and Astronomy and Astrophysics
- 2010 : **PhD thesis** in Astronomy-Astrophysics, at Institut d'Astrophysique de Paris, CNRS/UMR7095, University Pierre & Marie Curie (Paris 6), with highest honors
- 2007 : **Master 2 Research Astronomy-Astrophysics** with honors, Université Pierre & Marie Curie, Paris, France
- 2006 : **Master 1 in Physics** with honors, Ecole Normale Supérieure de Cachan et Université Pierre & Marie Curie, Paris, France
- 2005 : **Licence in Physics** mention Assez Bien, Ecole Normale Supérieure de Cachan et Université Pierre & Marie Curie, Paris, France (equivalent to a Bachelor's degree)

### MAIN RESEARCH INTERESTS

Extrasolar Planets: Detection and characterization

Stellar activity: chromospheric and photometric activity of solar-type stars: observation, simulation

High Resolution Spectroscopy: observation, instrumentation

## PUBLICATIONS, COMMUNICATIONS & REFEREE ACTIVITIES

- Refereed papers in international journals: 41 papers published which 5 first-author papers, 2 first-author papers submitted  
Citations in published refereed papers in ADS : h-index: 16; average per paper: 62 on the 6 most cited, 16 on the 41 published papers
- 9 oral presentations in international refereed conferences; 1 invited oral presentation in an international refereed workshop ; 1 invited oral presentation in an international workshop
- Referee for Astronomy&Astrophysics, The Astrophysical Journal, and The Monthly Notices of the Royal Astronomical Society
- Panelist for the NSF (National Science Foundation) in 2011

## TEAM LEADERSHIP & PROJECTS

2007-2010 : Co-PI of two of the five subprograms of planet research of the SOPHIE Consortium

2007-2010 : Co-I of project Super-Earth ANR Jeunes Chercheurs (PI : F. Bouchy)

2007-2010 : Co-I of SuperWASP project

2007- ... : Co-I SOPHIE

2007- ... : Co-I of the HATNet project, with Tel-Aviv co-I CNOUS, then with Princeton and Konkoli

2010- ... : Co-I of SPIRou instrument (PI: JF. Donati) [<http://lamwws.oamp.fr/magics/spirou/FrontPage>]

2010- ... : identified in Working groups for PLATO [[www.oact.inaf.it/plato/PPLC/Home.html](http://www.oact.inaf.it/plato/PPLC/Home.html)]

## ORGANIZATION OF EVENTS & ADMINISTRATION

- Help organize and run the public outreach segment of the "Fête de la science" 2007 at IAP (French national week celebrating science)
- Organize "Journée des thèses" at IAP in 2007 (day of the Institut where all PhD students present their work)
- Member of Laboratory Council at IAP (representative of the IAP PhD students) between 2008 and 2009
- Member of Administrative Council of OSU-IAP (representative of the IAP PhD students) between 2008 and 2010
- Member of Scientific Council at CAUP in 2010-
- Organize the Planet Journal Club at CAUP in 2010-
- Organize Workshop on dynamics of extrasolar planet at CAUP  
<http://www.astro.up.pt/investigacao/conferencias/dynamic2011>

## SUPERVISING EXPERIENCE

2010 : Contributes to the supervision of the PhD students of the planet team at CAUP, mainly with M. Oshagh about the simulation of transiting planet in front of spotted star.

2010 : Co-supervision of the research training period (3 months) of a M1 student, Steven Lequeux *Spectroscopic transit of extrasolar planets* with Pr. Lecavelier des Etangs A. at IAP

2007-2010 : Training of M2 students and observational help on the SOPHIE spectrograph

## LANGUAGES & SKILLS

French, fluent  
English, fluent

Spanish, good level  
Portuguese, beginner

**Operating systems** : Unix, Linux, Mac, Windows

**Programming languages** : Python, SuperMongo, FORTRAN, IDL, Fortran, C

## OTHERS

Théâtre with Les productions de la Fabrique 2002-2007

Judge for the ENS literary prize in 2006

Clown with Fred Robbes 2007-2011 (improvisation)

Danse (contemporain, flamenco, improvisation)

REFEREED PAPERS

- [A.1] *"Refined parameters and spectroscopic transit of the super-massive planet HD 147506b"*  
Loeillet, B.; Shporer, A.; Bouchy, F.; Pont, F.; Mazeh, T. *A&A*, Volume 481, Issue 2, 2008, pp.529-533
- [A.2] *"ELODIE metallicity-biased search for transiting Hot Jupiters. V. An intermediate-period Jovian planet orbiting HD 45652"*  
Santos, N. C.; Udry, S.; Bouchy, F.; da Silva, R.; Loeillet, B. et al. *A&A*, Volume 487, Issue 1, 2008, pp.369-372
- [A.3] *"Misaligned spin-orbit in the XO-3 planetary system ?"*  
Hébrard, G.; Bouchy, F.; Pont, F.; Loeillet, B.; Rabus, M. et al. *A&A*, Volume 488, Issue 2, 2008, pp.763-770
- [A.4] *"Stellar activity of planetary host star HD189733"*  
**Boisse, I.**; Moutou, C.; Vidal-Madjar, A.; Bouchy, F.; Pont, F. et al. *A&A*, Volume 495, Issue 3, 2009, pp.959-966
- [A.5] *"Photometric and spectroscopic detection of the primary transit of the 111-day-period planet HD80606b"*  
Moutou, C.; Hébrard, G.; Bouchy, F.; Eggenberger, A.; **Boisse, I.** et al. *A&A*, Volume 498, Issue 1, 2009, pp.L5-L8
- [A.6] *"Spin-orbit misalignment in the HD 80606 planetary system"*  
Pont, F.; Hébrard, G.; Irwin, J. M.; Bouchy, F.; Moutou, C. et al. *A&A*, Volume 502, Issue 2, 2009, pp.695-703
- [A.7] *"The SOPHIE northern extrasolar planets. I. A companion close to the planet/brown-dwarf transition around HD16760"*  
Bouchy, F.; Hébrard, G.; Udry, S.; Delfosse, X.; **Boisse, I.** et al. *A&A*, Volume 505, 2009, pp.853-858
- [A.8] *"Extrasolar planets and brown dwarfs around A-F type stars - VII. Theta Cygni radial velocity variations: planets or stellar phenomenon ?"*  
Desort, M.; Lagrange, A.-M.; Galland, F.; Udry, S.; Montagnier, G. et al. *A&A*, Volume 506, 2009, pp.1469-1476
- [A.9] *"The SOPHIE search for northern extrasolar planets. II. A multi-planet system around HD 9446"*  
G. Hébrard, X. Bonfils, D. Ségransan, C. Moutou, X. Delfosse, F. Bouchy, **I. Boisse** et al. *A&A*, Volume 513, pp.69-74 (2010)
- [A.10] *"Observation of the full 12-hour-long transit of the exoplanet HD 80606b. Warm-Spitzer photometry and SOPHIE spectroscopy"*  
G. Hébrard, J.-M. Désert, R.F. Diaz, **I. Boisse**, F. Bouchy, A. et al. *A&A*, Volume 516, pp.95-108 (2010)
- [A.11] *"The spin-orbit alignment of the transiting exoplanet WASP-3b from Rossiter-McLaughlin observations"*  
E.K. Simpson, D. Pollacco, G. Hébrard, N.P. Gibson, S.C.C. Barros et al. *Mon. Not. R. Astron. Soc.*, Volume 405, pp.1867-1872 (2010)
- [A.12] *"WASP-21b: a hot-Saturn exoplanet transiting a thick disc star"*  
F. Bouchy, L. Hebb, I. Skillen, A. Collier Cameron, B. Smalley et al. *A&A*, Volume 519, pp.98-103 (2010)
- [A.13] *"The HARPS search for southern extra-solar planets. XXI. Long-period low-mass companions to inactive Solar-type stars: Eight planets and one brown dwarf"*  
D. Naef, M. Mayor, G. Lo Curto, F. Bouchy, C. Lovis et al. *A&A*, vol. 523, pp.A15-22 (2010)

- [A.14] *"The Earth as an extrasolar transiting planet. Earth's atmospheric composition and thickness revealed by Lunar eclipse observations"*  
A. Vidal-Madjar, L. Arnold, D. Ehrenreich, R. Ferlet, A. Lecavelier des Etangs et al. *A&A*, vol. 523, pp.A57-70 (2010)
- [A.15] *"The Doppler shadow of WASP-3b. A tomographic analysis of Rossiter-McLaughlin observations"*  
G.R.M. Miller, A. Collier Cameron, E.K. Simpson, D. Pollacco, B. Enoch et al. *A&A*, vol. 523, pp.A52-58 (2010)
- [A.16] *"The SOPHIE search for northern extrasolar planets. III. A Jupiter-mass companion around HD 109246"*  
**I. Boisse**, A. Eggenberger, N. Santos, F. Bouchy, C. Lovis et al. *A&A*, vol. 523, pp.88-96 (2010)
- [A.17] *"WASP-38b: a transiting exoplanet in an eccentric, 6.87d period orbit"*  
S.C.C. Barros, F. Faedi, A. Collier Cameron, T.A. Lister, J. McCormac et al. *A&A*, Volume 525, pp.54-59 (2011)
- [A.18] *"SOPHIE velocimetry of Kepler transit candidates. I. Detection of the low-mass white dwarf KOI 74b."*  
Ehrenreich, D.; Lagrange, A.-M.; Bouchy, F.; Perrier, C.; Hébrard, G. et al. *A&A*, Volume 525, 2011, pp.85-92
- [A.19] *"WASP-37b: a 1.8 MJ exoplanet transiting a metal-poor star"*  
E.K. Simpson, F. Faedi S.C.C. Barros, D.J.A. Brown, A. Collier Cameron et al. *Astronomical Journal*, 141, 8S
- [A.20] *"Disentangling between stellar activity and planetary signals"*  
**I. Boisse**, F. Bouchy, G. Hébrard, X. Bonfils, N. Santos and S. Vauclair 2011, *A&A*, 528A, 4B
- [A.21] *"The upper atmosphere of the exoplanet HD209958b revealed by the sodium D lines: Temperature-pressure profile, ionization layer, and thermosphere"*  
A. Vidal-Madjar, D.K. Sing, A. Lecavelier des Etangs, R. Ferlet, J.-M. Désert et al. 2011, *A&A*, 527A, 110V
- [A.22] *"Exoplanets transmission spectroscopy: accounting for eccentricity and longitude of periastron. Superwinds in the upper atmosphere of HD209458b ?"*  
M. Montalto, N.C. Santos, **I. Boisse**, G. Boué, P. Figueira and S. Sousa 2011, *A&A letter*, 528L, 17M
- [A.23] *"A short-period super-Earth orbiting the M2.5 dwarf GJ3634. Detection with Harps velocimetry and transit search with Spitzer photometry"*  
X. Bonfils, M. Gillon, T. Forveille, X. Delfosse, D. Deming et al. 2011, *A&A*, 528A.111B
- [A.24] *"The retrograde orbit of the HAT-P-6b exoplanet"*  
G. Hébrard, D. Ehrenreich, F. Bouchy, X. Delfosse, C. Moutou et al. 2011, *A&A letter*, 527L, 11H
- [A.25] *"Orbital eccentricity of WASP-12 and WASP-14 from new radial-velocity monitoring with SOPHIE"*  
N. Husnoo, F. Pont, G. Hébrard, E. Simpson, T. Mazeh et al 2011, *MNRAS*, 413, 2500
- [A.26] *"WASP-40b: independent discovery of the 0.6-M<sub>Jup</sub> transiting exoplanet HAT-P-27b"*  
D.R. Anderson, S.C.C. Barros, **I. Boisse**, F. Bouchy, A. Collier Cameron et al., *PASP*, 123, 555A
- [A.27] *"Independent discovery of the transiting exoplanet HAT-P-14b"*  
E.K. Simpson, S.C.C. Barros, D.J.A. Brown, A. Collier Cameron, D. Pollacco et al. *Astronomical Journal*, 141, 161S
- [A.28] *"The spin-orbit angles of the transiting exoplanets WASP-1b, WASP-24b, WASP-38b and HAT-P-8b from Rossiter-McLaughlin observations"*  
E.K. Simpson, D. Pollacco, A. Collier Cameron, G. Hébrard, D.R. Anderson et al. 2011, *MNRAS*, 414, 3023

- [A.29] "*WASP-39b: a highly inflated Saturn-mass planet orbiting a late G-type star*"  
F. Faedi, S.C.C. Barros, D.R. Anderson, D.J.A. Brown, A. Collier Cameron et al., 2011, A&A, 531A, 40F
- [A.30] "*WASP-23b: a transiting hot Jupiter around a K dwarf and its Rossiter-McLaughlin effect*"  
A.H.M.J. Triaud, D. Queloz, C. Hellier, M. Gillon, B. Smalley et al., 2011, A&A, 531A, 24T
- [A.31] "*Deriving the radial-velocity variations induced by stellar activity from high-precision photometry. Test on HD189733 with simultaneous MOST/SOPHIE data*"  
A.F. Lanza, **I. Boisse**, F. Bouchy, A.S. Bonomo, and C. Moutou, 2011, A&A, 533, 44
- [A.32] "*Spin-orbit inclinations of the exoplanetary systems HAT-P-8b, HAT-P-9B, HAT-P-16b, and HAT-P-23b*"  
C. Moutou, R.F. Díaz, S. Udry, G. Hébrard, F. Bouchy et al. 2011, A&A, 533, 113
- [A.33] "*The SOPHIE search for northern extrasolar planets IV. Massive companions in the planet-brown dwarf boundary*"  
R.F. Díaz, A. Santerne, J. Sahlmann, G. Hébrard, A. Eggenberger et al. 2012, A&A, 538, 113
- [A.34] "*New Rossiter-McLaughlin results from WASP*"  
D.J.A. Brown, A. Collier Cameron, D.R. Anderson, B. Enoch, C. Hellier et al. 2012, MNRAS, 423, 1503
- [A.35] "*The SOPHIE search for northern extrasolar planets V. Follow-up of ELODIE candidates: Jupiter-analogues around sun-like stars*"  
**I. Boisse**, F. Pepe, C. Perrier, D. Queloz, X. Bonfils et al. 2012, A&A, 545, 55
- [A.36] "*SOAP A tool for the fast computation of photometry and radial velocity induced by stellar spots*"  
**I. Boisse**, X. Bonfils and N.C. Santos 2012, A&A, 545, 109
- [A.37] "*Analysis of spin-orbit alignment in the WASP-32, WASP-38 and HAT-P-27/WASP-40 systems*"  
D.J.A. Brown, A. Collier Cameron, R.F. Díaz, A.P. Doyle, M. Gillon et al. 2012, ApJ, 760, 139
- [A.38] "*A new analysis of the WASP-3 system: no evidence for an additional companion*"  
M. Montalto, J. Gregorio, G. Boué, A. Mortier, **I. Boisse** et al. 2012, MNRAS, 427, 2757
- [A.39] "*SOAP-T: A tool to study the light-curve and radial velocity of a system with a transiting planet and a rotating spotted star*"  
M. Oshagh, **I. Boisse**, G. Boué et al. 2013, A&A, 549, 35
- [A.40] "*New analytical expressions of the Rossiter-McLaughlin effect adapted to different observation techniques*"  
G. Boué, M. Montalto, **I. Boisse**, M. Oshagh and N.C. Santos, accepted for publication in A&A, arXiv:1211.3310
- [A.41] "*SOPHIE+: First results of an octagonal-section fiber for high-precision radial velocity measurements*"  
F. Bouchy, R.F. Diaz, G. Hébrard, L. Arnold, **I. Boisse** et al. 2013, A&A, 549, 49

## SUBMITTED PAPERS

*"HAT-P-42b and HAT-P-43b. Two transiting hot Jupiters from the HATNet survey"*  
**I. Boisse**, J.D. Hartman, G.A. Bakos, K. Penev, Z. Csubry et al., submitted to A&A

*"Projected spin-orbit angle of the HAT-P- system"*  
**I. Boisse**, J.D. Hartman, G. Kovacs, G.A. Bakos and T. Kovacs,

## CONFERENCE PROCEEDINGS

[C.1] "Stellar metallicity and activity study for exoplanets searches with the SOPHIE spectrograph"

**I. Boisse**, F. Bouchy, G. Hébrard, A. Ecuivillon, A. Vidal-Madjar et al. *SF2A-2007: Proceeding of the Annual meeting of the French Society of A&A held in Grenoble, France* Eds.: J. Bouvier, A. Chalabaev and C. Charbonnel, p.373, 2007

[C.2] "Monitoring HD189733 activity during two rotation periods"

**Boisse, I.**; Moutou, C.; Vidal-Madjar, A.; Bouchy, F.; Pont, F. et al., *Proceeding of the International Astronomical Union, IAU Symposium Transiting Planets*, Volume 253, p. 462-465, 2009

[C.3] "Charge Transfer Inefficiency effect for high-precision radial velocity measurements"

Bouchy, F.; Isambert, J.; Lovis, C.; **Boisse, I.**; Figueira, P.; Hébrard, G.; Pepe, F. , *EAS Publications Series*, Volume 37, 2009, pp.247-253

[C.4] "Consequences of spectrograph illumination for the accuracy of radial-velocimetry"

**I. Boisse**, F. Bouchy, B. Chazelas, S. Perruchot, F. Pepe, C. Lovis et G. Hébrard, *New technologies for probing the diversity of brown dwarfs and exoplanets*, EPJ Web of Conferences, arXiv:1001.0794

[C.5] "Search and characterization for extrasolar planets with the SOPHIE consortium"

**I. Boisse**, F. Bouchy, G. Hébrard, S. Udry, X. Delfosse et al. *SF2A-2010: Proceeding of the Annual meeting of the French Society of A&A held in Marseille, France*,

[C.6] "Disentangle stellar activity and planetary signals"

**I. Boisse**, F. Bouchy, G. Hébrard, X. Bonfils, N. Santos and S. Vauclair, *Proceeding of the International Astronomical Union, IAU Symposium, Physics of Sun and Star Spots*, Volume 273, 2010

[C.7] "Disentangle stellar activity and planetary signals"

**I. Boisse**, F. Bouchy, G. Hébrard, X. Bonfils, N. Santos and S. Vauclair, *Detection and Dynamics of Transiting Exoplanets, Proceeding of Haute Provence Observatory Colloquium (23-27 August 2010)*, Eds.: F. Bouchy, R.F. Díaz & C. Moutou

[C.8] "Disentangle stellar activity and planetary signals"

**I. Boisse**, F. Bouchy, G. Hébrard, X. Bonfils, N. Santos and S. Vauclair, *Proceeding of the International Astronomical Union, IAU Symposium, The Astrophysics of Planetary Systems: Formation, Structure, and Dynamical Evolution*, Eds.: A. Sozzetti, M.G. Lattanzi & A.P. Boss, Volume 276, 2010

[C.9] "Three new massive companions in the planet-brown dwarf boundary detected with SOPHIE"

R.F. Díaz, G. Hébrard, F. Bouchy, **I. Boisse**, X. Bonfils et al., *Detection and Dynamics of Transiting Exoplanets, Proceeding of Haute Provence Observatory Colloquium (23-27 August 2010)*, Eds.: F. Bouchy, R.F. Díaz & C. Moutou

[C.10] "Disentangle stellar activity and planetary signals"

**I. Boisse**, F. Bouchy, G. Hébrard, X. Bonfils, N. Santos and S. Vauclair, *Proceeding of the International Astronomical Union, IAU Symposium, The Astrophysics of Planetary Systems: Formation, Structure, and Dynamical Evolution*, Eds.: A. Sozzetti, M.G. Lattanzi & A.P. Boss, Volume 276, 2010

[C.11] "Three new massive companions in the planet-brown dwarf boundary detected with SOPHIE"

R.F. Díaz, G. Hébrard, F. Bouchy, **I. Boisse**, X. Bonfils et al., *Detection and Dynamics of Transiting Exoplanets, Proceeding of Haute Provence Observatory Colloquium (23-27 August 2010)*, Eds.: F. Bouchy, R.F. Díaz & C. Moutou

[C.12] *"Higher-precision radial velocity measurements with the SOPHIE spectrograph using octagonal-section fibers"*

S. Perruchot, F. Bouchy, B. Chazelas, R.F. Díaz, G. Hébrard et al. 2011, SPIE, 8151, 815115-815115-12

[C.13] *"SOAP: a tool for the fast computation of the effect of stellar spots"*

I. Boisse, X. Bonfils, N.C. Santos and P. Figueira, *New Quests in Stellar Astrophysics. III. A Panchromatic view of solar-like stars, with and without planets*, Puerto Vallarta, Mexico

[C.14] *"Towards the detection of other Earths: dealing with stellar noise"*

N.C. Santos, I. Boisse, M. Oshagh, X. Bonfils, X. Dumusque et al. *AN*, 2012, proceedings of the Cool stars conference, Barcelona, Spain

[C.15] *"The SOPHIE search for northern extrasolar planets. Follow-up of ELODIE candidates: Jupiter-analogs around Sun-like stars"*

I. Boisse, F. Pepe, C. Perrier et al. *SF2A*, Nice, France, 2012

[C.16] *"SPIRou @ CFHT: data reduction software and simulation tools"*

E. Artigau, F. Bouchy, X. Delfosse et al. *Software and Cyberinfrastructure for Astronomy II. Proceedings of the SPIE*, Volume 8451, id. 84513I-84513I-9 (2012)

[C.17] *"How the planetary research helps to the stellar dynamo understanding"*

I. Boisse, M. Oshagh, C. Lovis et al. *SF2A*, Nice, France, 2012

[C.18] *"The SOPHIE search for northern extrasolar planets. Follow-up of ELODIE candidates: Jupiter-analogs around Sun-like stars"*

I. Boisse, F. Pepe, C. Perrier et al., *IAU 293*, Beijing, China, 2012

[C.19] *"Stellar variabilities: challenges for the detection and characterization of exoplanets"*

I. Boisse, X. Dumusque, N.C. Santos et al., *IAU 293*, Beijing, China, 2012

[C.20] *"How the planetary research helps to the stellar dynamo understanding"*

I. Boisse, M. Oshagh, C. Lovis et al., *IAU 294*, Beijing, China, 2012

## COMMUNICATIONS

[D.1] poster, *SF2A*, 2007, Grenoble, France

[D.2] poster, *IAU 253*, 2008, Boston, MA, USA, bourse : 1200CFH

[D.3] poster, *Extra Solar Super-Earth*, International Workshop, Nantes, France, 2008

[D.4] poster, *Evolution of Planetary and Stellar Systems*, Prato, Italy, 2009

[D.5] talk, *New Technologies for Probing the diversity of Brown Dwarfs and Exoplanets*, Shanghai, China, 2009, bourse : 800 dollars

[D.6] invited talk, *Unsinkable planets: telluric planet detection and stellar activity*, Exeter, UK, 2009

[D.7] poster, *Towards Other Earths*, Porto, Portugal, 2009, bourse : 300 euros

[D.8] talk, *SF2A*, 2010, Marseille, France

[D.9] invited talk, *Astronomy of Exoplanets with Precise Radial Velocities*, Penn State University, State College, USA, 2010, bourse : 1000 dollars

[D.10] talk, *Haute Provence Observatory Colloquium*, OHP, France, 2010

[D.11] talk, *IAU 273*, The physics of Sun and Star Spots, Ventura, CA, USA, 2010, bourse : 1000 dollars

[D.12] talk, in *EPSC 2010*, Rome, Italie, bourse : 300 euros

[D.13] poster, *IAU 276*, 2010, Turin, Italie, bourse : 800 euros

[D.14] poster, *PLATO Science Conference*, 2011, Berlin, Allemagne

[D.15] poster, *Exploring strange new worlds*, 2011, Flagstaff, USA, bourse: 500 euros

[D.16] poster, *Extreme Solar Systems II*, 2011, Jackson, USA, bourse: ?

[D.17] 2 talks, atelier PNP/PNPS "Magnétisme stellaire et Planètes extrasolaires", octobre 2011, OHP,

France

[D.18] poster, *New Quests in Stellar Astrophysics. III. A Panchromatic view of solar-like stars, with and without planets*, Puerto Vallarta, Mexico

[D.19] poster, SF2A 2012, Nice, France, bourse: 500 euros

[D.20] contribution orale, *How the planetary research helps to the stellar dynamo understanding*, SF2A 2012, Nice, France, bourse: 500 euros

[D.21] poster, *The SOPHIE search for northern extrasolar planets. Follow-up of ELODIE candidates: Jupiter-analogs around Sun-like stars*, IAU 293, Beijing, China, bourse: 700 euros

[D.22] contribution orale, *Stellar variabilities: challenges for the detection and characterization of exoplanets*, IAU 293, Beijing, China, bourse: 700 euros

[D.23] contribution orale, *How the planetary research helps to the stellar dynamo understanding*, IAU 294, Beijing, China, bourse: 700 euros

[D.24] contribution orale, *Jupiter-analogs around Sun-like stars. New planets from SOPHIE and ELODIE*, ENAA, Porto, Portugal

## SEMINARS

[E.1] *Improving the radial-velocimetry accuracy, from the instrument to the stars* CAUP, Porto, Portugal, février 2010

[E.2] *Diagnostics de spectroscopie Doppler pour la recherche et caractérisation d'exoplanètes* OHP, France, septembre 2010

[E.3] *La question de la variabilité stellaire pour la détection des planètes par vitesses radiales* FOST meeting, IPAG, Grenoble, France, janvier 2011

[E.4] *The stellar variability examination for the detection of exoplanets with RV*, 4 Mars 2011, LAM, Marseille, France

[E.5] Invited *The stellar variability examination for the detection of exoplanets with RV*, 16 June 2011, IRAP, Toulouse, France

[E.6] Invité *Stellar variability: Impact on the detection and characterization of exoplanets*, 2 février 2012, School of Physics and Astronomy, University of St Andrews, UK

## Awarded observation time (last 12 months)

- as a PI : OPTICON 2012B/027, 5 nights with SOPHIE at OHP (RV follow-up of HATNet candidates)

- as a PI : OPTICON 2013A/20, 5 nights with SOPHIE at OHP (RV follow-up of HATNet candidates)

- as a PI : ESO P91 (Juin 2013) 091.C-0853, 6 nights with HARPS at 3.6m, La Silla "A needed step towards other Earths: Understand the magnetic activity of solar-type stars and its impact on CCF and RV measurements."

- as a co-I : ESO HARPS Large program 190.C-0027(B) to search for planets orbiting metal-poor stars (PI: Santos)

- as a co-I : ESO P91 (Septembre 2013) 091.C-0271, 3 nights with HARPS au 3.6m, LaSilla "Detecting the optical reflected light spectrum on 51Pegb" (PI: Santos)

- as a co-I : Large program "MaTYSSE : Magnetic topologies of young stars and the survival of close-in massive exoplanets. on ESPaDOnS" on the CFHT (8 semestres) and on Narval at TBL (4 semestres). (PI: Donati)

- as a co-I : Simultaneous RV/Spectropolarimetric observations of M dwarfs on SOPHIE at OHP and Narval at TBL (PI: Morin)

- as a co-I : SOPHIE Consortium to search for planets in the northern hemisphere semester 2012A and B (PI: Bouchy)