

# Frédéric MOISY

Professor at Université Paris-Sud

## PERSONAL DETAILS

Birth	November 28, 1974, in Paris (France)
Address	Laboratoire FAST – Bâtiment 502 Université Paris-Sud, 91 405 Orsay, France 33 1 69 15 80 37 – moisy@fast.u-psud.fr www.fast.u-psud.fr/~moisy

## EDUCATION AND POSITIONS

2012-	<b>Professor at Université Paris-Sud</b> , Laboratoire Fluides, Automatique et Systèmes Thermiques (FAST, UMR 7608).
2017	<b>Invited professor, Department of Applied Mathematics and Theoretical Physics (DAMTP), University of Cambridge</b> (7 months)
2012-17	<b>Junior fellow of Institut Universitaire de France</b>
2010	<b>Habilitation à Diriger des Recherches, Université Paris-Sud</b> , defended September 10, 2010.
2000-12	<b>Maître de Conférences (assistant professor) at Université Paris-Sud</b> , Laboratoire Fluides, Automatique et Systèmes Thermiques (FAST, UMR 7608).
2000	<b>PhD thesis</b> of Université Pierre et Marie Curie, at Laboratoire de Physique Statistique, Ecole Normale Supérieure. Supervisor: P. Tabeling, defended January 25, 2000.
1997	<b>D.E.A. (Master's degree) Champs, Particules, Matières</b> , Université Pierre et Marie Curie (mention bien).

## RESEARCH PROJECTS

since 2017	Hydrodynamics of swimming microorganisms. Collaboration with Ray Goldstein (DAMTP Cambridge).
since 2012	Surface waves and capillary-gravity wakes. Collaboration with M. Rabaud (FAST) and Wietze Herreman (LIMSI)
since 2009	Linear and nonlinear inertial waves, with P.P. Cortet (FAST), collaborations with T. Dauxois (ENS Lyon), L. Maas (NIOZ, Univ. Utrecht), D. Cébron (ETH Zurich), B. Voisin (LEGI Grenoble)
since 2007	Turbulent mixing in miscible fluids, with J.P. Hulin (FAST). Collaboration with J. Magnaudet (IMFT Toulouse).
since 2007	Optical methods for free-surface deformations, with M. Rabaud (FAST); application to capillary parametric waves. Collaboration with Y. Couder (MSC, Univ. Paris Diderot).
since 2004	Rotating turbulence : with P.P. Cortet (FAST), collaborations with J. Sommeria (LEGI Grenoble) and B. Gallet (CEA Saclay)
2000-2005	Instabilities in rotating flows. Collaborations with O. Daube (LME, Université d'Evry) and C. Nore (LIMSI, Univ. Paris-Sud).
2000-2003	Geometry of intense structures in isotropic turbulence. Collaboration with J. Jiménez, (Univ. Politecnica, Madrid).

- 1997-2000      Turbulence and mixing in low-temperature helium gas (PhD thesis at Laboratoire de Physique Statistique, Ecole Normale Supérieure, with P. Tabeling). Collaboration with E. Bodenschatz (Cornell University).

## SCIENTIFIC PRODUCTION

- 42 articles, including 15 Phys. Fluids, 5 J. Fluid Mech., 5 Phys Rev Lett, 4 Phys Rev E, 3 Phys Rev Fluids, 2 Exp. in Fluids, 1 EPL
- 32 conference proceedings, including 12 invited talks / keynote lectures.
- 6 large audience papers
- 30 invited laboratory seminars
- Bibliometry: 830 citations, h = 16 (Web of Knowledge) ; 1500 citations, h = 20 (Google Scholar)

## RESEARCH GRANTS

- PI of project LABEX LASIPS “Empreintes”, with LadHyX (2017-18): 60 k€
- Second investigator of project LABEX PALM « Waveturb », with LadHyX (2015-2016): 60 k€
- PI of project ANR blanc « ONLITUR », with ENS Lyon (2011-2014) : 298 k€.
- PI of project RTRA Triangle de la Physique « Rotating platform » (2008-2010) : 70 k€
- PI of project ANR blanc « HiSpeed PIV », with laboratories LIMSI, IAS, IJLRA, LadHyX and ENSTA (2006-2010) : 500 k€.
- PI of project BQR Univ. Paris-Sud « Particle Image Velocimetry » (2002) : 23 k€.
- PI of project Action Spécifique UPMC « Particle Image Velocimetry » (2002) : 30 k€.

## DISTINCTIONS / “HIGHLIGHTS”

- PRE Editor’s suggestion for “Mach-like capillary-gravity waves”, **90**, 023009 (2014)
- PRL Editor’s suggestion for « Ship wakes: Kelvin or Mach angle? », **110**, 214503 (2013).
- Article “A liquid Foucault pendulum”, CNRS international magazine **27** (oct 2012).
- Article “Un pendule de Foucault version liquide”, CNRS Le journal **268** (sept-oct 2012).
- « Research Highlights » Phys Fluids **24** (2012).
- « Focus on Fluids » by S. Dalziel, J. Fluid Mech **666** (2011).
- Prize "Gallery of Fluid Motion", APS DFD (2002)
- Prize of 9<sup>ème</sup> colloque Alain Bouysson, Université Paris-Sud (2001).

## TEACHING RESPONSABILITIES

- Since september 2010, coordinator (with C. Dang Vu until 2012) of Master’s degree « Dynamique des Fluides et Energétique ».
- 2008-2010, coordinator with G. Labrosse of « parcours Recherche Dynamique des Fluides » of the Master’s degree Mécanique Physique of Université Paris Sud.
- Lectures of Fluid Mechanics (1st year Master of fundamental physics; 3<sup>rd</sup> of Licence Interuniversitaire de Physique at ENS), Turbulence (2<sup>nd</sup> year Master of fluid dynamics).

## THESIS SUPERVISION: 5

- Cyprien Morize, co-supervised with Marc Rabaud (Université Paris Diderot, defended september 29, 2006) – currently maître de conférences at Université Paris-Sud.
- Jemil Znaïen, co-supervised with J.P. Hulin (University Paris-Sud, defended October 2, 2009), currently engineer at DAF Trucks, Netherlands.
- Cyril Lamriben, co-supervised with P.-P. Cortet (University Paris-Sud, defended July 12, 2012), currently professeur agrégé at Université Paris Ouest.
- Antoine Campagne, co-supervised with P.-P. Cortet (University Paris-Sud, defended July 9, 2015),

currently postdoc at LEGI, Université de Grenoble.

- Anna Paquier, co-supervised with M. Rabaud (University Paris-Sud, defended July 11, 2016), currently engineer at Saint-Gobain.

## **DEFENSE COMMITTEES: 33**

- Reviewer for 18 PhD thesis : M. Mercier (ENS Lyon, 2010), N. Grisouard (Univ Joseph Fourier Grenoble, 2010), S. Davoust (ONERA, 2011), P. Augier (Ecole Polytechnique, 2011), C. Jause-Labert (Ecole Centrale Lyon, sept. 2012), D. Duri (Univ Joseph Fourier Grenoble, 2012), A. Sauret (Univ. Aix-Marseille, 2013), A. Benusiglio (Ecole Polytechnique, 2013), M. Landeau (Institut de Physique du Globe de Paris, 2013), J. Herault (Ecole Normale Supérieure, 2013), G. Gomit (Institut PPrime, 2013), Rafael Gomes Fernandes (Imperial College, 2014), N. Machicoane (ENS Lyon, 2014), A. Ranjan (Cambridge, 2015), R. Courtier (ONERA, 2015), J.M. Perez-Gracia (Madrid, 2016), Q. Aubourg (LEGI, Grenoble, 2016)
- Referee for 10 PhD thesis: F. Ravelet (CEA Saclay, 2005), R.P.J. Kunnen (TU/e Eindhoven, 2008), W. Mouhali (Observatoire de Paris – Meudon, 2009), J. Basley (Univ. Paris-Sud, 2012), S. Miralles (Ecole Normale Supérieure de Lyon, 2013), Simon Thalabard (CEA Saclay, 2013), Hugo Chauvet (IPGP / Univ Paris Diderot, 2014), N. Schneider (CEA, 2015), L. Hadid (LPP, Ecole Polytechnique, Univ Paris Sud, 2016), D. Kuzzay (CEA Saclay, 2016), Leo-Paul Euvé (Université de Poitiers, 2017)
- Reviewer for 2 Habilitation thesis : S. Poncet (Univ Aix-Marseille, 2014), R. Monchaux (ENSTA / Univ. Paris-Sud, 2015)
- Referee for 2 Habilitation thesis: O. Doaré (ENSTA /Univ. Paris-Sud, 2012), David Lo Jacono (IMFT Toulouse, 2015)

## **ADMINISTRATIVE SERVICES**

- Co-organizer of the workshop “Sillages et Ondes de surface” (2014 and 2016, Paris)
- Organizer of a workshop ERCOFTAC/SIG35 (april 13-14 2011, Paris)
- Member of the scientific board of Labex PALM (since 2011)
- Member of the scientific board of GDR « Turbulence » (2008-2016)
- Member of the board of the physics department at University Paris-Sud (2010-2014).
- Member of the HCERES evaluation committee of Laboratory PPRIME, Poitiers (December 2016)
- Member of the board « CES n°5: energie » of Agence Nationale de la Recherche (july 2014).
- Member of the evaluation committee of Department DAFE (ONERA, march 2014).
- Coordinator of the group “Instabilities, Waves and Turbulence” at Laboratory FAST
- Coordinator of seminars of the Master’s degree in fundamental physics (2011-2016).
- Reviewer for J. Fluid. Mech., Phys. Fluids, Phys. Rev. Fluids, Exp. Fluids...
- Reviewer for ANR projects (2008 and 2012); Labex PALM (several projects since 2012); « Israel Science Fundation » project (2012); incubateur Agoranov (2005).

## **INVITED CONFERENCES / KEYNOTE LECTURES: 13**

- Workshop “Structures and Waves in Anisotropic Turbulence”, Isaac Newton Institute for Mathematical Sciences, Univ. Warwick, UK, 2-7 november 2008
- Winter School “New Challenges in Turbulence Research”, Les Houches, 21-26 february 2010.
- Colloquium Euromech 519 “Mixing and Dispersion in Flows Dominated by Rotation and Buoyancy”, Rolduc, Netherlands, 20-23 june 2010.
- Workshop “Classical and Quantum Turbulence”, Abu Dhabi, 2-5 may 2011.
- Colloquium Euromech 525 “Instabilities and transition in three-dimensional flows with rotation”, Lyon, 21-23 june 2011.
- Summer School « Morphology and dynamics of anisotropic flows”, Cargèse, 18-31 july 2011.
- Winter School “Wave Turbulence”, Les Houches, 26-30 march 2012.

- Colloquium Euromech 542 « Progress in statistical theory and pseudo-spectral DNS», Lyon, 15-18 january 2013
- Conference “Statistical Mechanics and Nonlinear Physics”, Lille 12-15 november 2013
- Workshop “ISTROF - Instabilities and Turbulence in Stratified Rotational Flows”, Le Havre, 23-26 june 2014
- 19<sup>th</sup> International Couette-Taylor Workshop, Cottbus, Germany, 22-24 june 2015
- Euromech-Ercoftac Workshop “Turbulence cascades”, Lille, 2-4 december 2015.
- Euromech-Ercoftac Workshop “Turbulence cascades II”, Lyon, 5-7 december 2017.

## JOURNAL PAPERS: 42

1. J. Bouvard, W. Herreman and F. Moisy Mean mass transport in an orbitally shaken cylindrical container, *Phys. Rev. Fluids* **2**, 084801 (2017)
2. A. Paquier, F. Moisy and M. Rabaud, Viscosity effects in wind wave generation, *Phys. Rev. Fluids* **1**, 083901 (2016)
3. N. Machicoane, F. Moisy and P.-P. Cortet, Two-dimensionalization of the flow driven by a slowly rotating impeller in a rapidly rotating fluid, *Phys. Rev. Fluids* **1**, 073701 (2016)
4. A. Campagne, N. Machicoane, B. Gallet, P.-P. Cortet and F. Moisy, Turbulent drag in a rotating frame, *J. Fluid Mech.* **794**, R5 (2016)
5. A. Paquier, F. Moisy, and M. Rabaud, Surface deformations and wave generation by wind above a viscous liquid, *Phys. Fluids* **27**, 122103 (2015).
6. N. Machicoane, P.-P. Cortet, B. Voisin, and F. Moisy, Influence of the multipole order of the source on the decay of an inertial wave beam in a rotating fluid, *Phys. Fluids* **27**, 066602 (2015) (2015).
7. A. Campagne, B. Gallet, F. Moisy and P.-P. Cortet, Disentangling inertial waves from eddy turbulence in a forced rotating turbulence experiment, *Phys. Rev. E* **91**, 043016 (2015)
8. F.S. Godeferd and F. Moisy, Structure and dynamics of rotating turbulence: a review of recent experimental and numerical results, *Applied Mechanics Reviews* **67**, 030802 (2015)
9. Y. Tanino, F. Moisy, J.-P. Hulin. Lock-exchange flows in inclined pipes: the relevance of the Prandtl mixing length model. *J. Turbulence* **16** (5), 484-502 (2015)
10. A. Campagne, B. Gallet, F. Moisy and P.-P. Cortet, Direct and inverse energy cascades in a forced rotating turbulence experiment, *Phys. Fluids* **26**, 125112 (2014)
11. M. Rabaud and F. Moisy, Narrow ship wakes and wave drag for planing hulls, *Ocean Eng.* **90**, 34 (2014).
12. F. Moisy, M. Rabaud, Mach-like capillary-gravity wakes, *Phys. Rev. E* **90**, 023009 (2014) - **Editor’s suggestion**
13. F. Moisy, M. Rabaud, Scaling of far-field wake angle of non-axisymmetric pressure disturbance, *Phys. Rev. E* **89**, 063004 (2014).
14. B. Gallet, A. Campagne, P.-P. Cortet, F. Moisy. Scale-dependent cyclone-anticyclone asymmetry in a forced rotating turbulence experiment, *Phys. Fluids* **26**, 035108 (2014).
15. M. Rabaud, F. Moisy. Ship wakes: Kelvin or Mach angle?, *Phys. Rev. Lett.* **110**, 214503 (2013) - **Editor’s suggestion**
16. J. Boisson, C. Lamriben, L.R.M. Maas, P.-P. Cortet, F. Moisy. Inertial waves and modes excited by the libration of a rotating cube, *Phys. Fluids* **24**, 076602 (2012).
17. J. Boisson, D. Cébron, F. Moisy, P.P. Cortet, Earth rotation prevents the solid-body rotation of fluids in the laboratory *EPL* **98**, 59002 (2012).
18. Y. Tanino, F. Moisy, J.P. Hulin, Laminar-turbulent cycles in inclined lock-exchange flows, *Phys. Rev. E* **85**, 066308 (2012).

19. F. Moisy, G.J. Michon, M. Rabaud, E. Sultan, Crosswaves induced by the vertical oscillation of a fully immersed vertical plate, *Phys. Fluids* **24**, 022110 (2012) - **Research Highlight**
20. G. Bordes, F. Moisy, T. Dauvois, P.-P. Cortet, Experimental evidence of a triadic resonance of plane inertial waves in a rotating fluid, *Phys Fluids* **24**, 014105 (2012).
21. C. Lamriben, P.P. Cortet, F. Moisy, Direct measurements of anisotropic energy transfers in a rotating turbulence experiment, *Phys. Rev. Lett.* **107**, 024503 (2011).
22. J. Znaïen, F. Moisy, J.P. Hulin, Flow structure and momentum transport for buoyancy driven mixing flows in long tubes at different tilt angles, *Phys. Fluids* **23**, 035105 (2011).
23. C. Lamriben, P.P. Cortet, F. Moisy, L. Maas, Excitation of inertial modes in a closed grid turbulence experiment under rotation, *Phys. Fluids* **23**, 015102 (2011).
24. F. Moisy, C. Morize, M. Rabaud, J. Sommeria, Decay laws, anisotropy and cyclone-anticyclone asymmetry in decaying rotating turbulence, *J. Fluid Mech* **666**, 5-35 (2011) – **Focus on Fluid**
25. P.P. Cortet, C. Lamriben, F. Moisy, Viscous spreading of an inertial wave beam in a rotating fluid, *Phys. Fluids* **22**, 086603 (2010).
26. J. Znaïen, Y. Hallez, F. Moisy, J. Magnaudet, J.P. Hulin, D. Salin and E. J. Hinch : Experimental and numerical investigation of flow structure and momentum transport in a turbulent buoyancy-driven flow inside a tilted tube, *Phys. Fluids* **21**, 115102 (2009).
27. A. Eddi, E. Fort, F. Moisy, Y. Couder : Unpredictable tunneling of a classical wave-particle association, *Phys. Rev. Lett.* **102**, 240401 (2009).
28. F. Moisy, M. Rabaud, K. Salsac : A Synthetic Schlieren method for the measurement of the topography of a liquid interface, *Exp. in Fluids* **46** (6), 1021-1036 (2009).
29. J. Seiwert, C. Morize, M. Rabaud, F. Moisy : Scaling of longitudinal structure functions in grid-generated decaying rotating turbulence, *Phys. Fluids* **20**, 071702 (2008).
30. L. Messio, C. Morize, M. Rabaud, F. Moisy : Experimental observation using particle image velocimetry of inertial waves in a rotating fluid, *Exp. in Fluids* **44**, 519-528 (2008).
31. C. Morize, F. Moisy : Energy decay of rotating turbulence with confinement effects, *Phys. Fluids* **18**, 065107 (2006).
32. C. Morize, F. Moisy, M. Rabaud : Decaying grid-generated turbulence in a rotating frame, *Phys. Fluids* **17**, 095105 (2005)
33. C. Nore, F. Moisy, L. Quartier : Experimental observation of near-heteroclinic cycles in the von Karman swirling flow, *Phys. Fluids* **17**, 064103 (2005).
34. F. Moisy and J. Jimenez : Geometry and clustering of intense structures in isotropic turbulence, *J. Fluid Mech* **513**, 111-133 (2004).
35. F. Moisy, O. Doaré, T. Pasutto, O. Daube, M. Rabaud : Experimental and numerical study of the shear layer instability between two counter-rotating disks, *J. Fluid Mech* **507**, 175-202 (2004).
36. F. Moisy : Supercritical bifurcation of a spinning hoop, *Am. J. Phys.* **71**, 999-1004 (2003).
37. F. Moisy, T. Pasutto, M. Rabaud, Instability patterns in the flow between counter-rotating disks, *Nonlinear Processes in Geophysics* **10** (3), 281-288 (2003).
38. G. Gauthier, P. Gondret, F. Moisy, M. Rabaud : Instabilities in the flow between co and counter-rotating disks, *J. Fluid Mech* **473**, 1-21 (2002).
39. F. Moisy, H. Willaime, J.S. Andersen, P. Tabeling : Passive scalar intermittency in low temperature helium flows, *Phys. Rev. Lett.* **86** (21), 4827-4830 (2001).
40. La Porta, G.A. Voth, F. Moisy, E. Bodenschatz : Using cavitation to measure statistics of low-pressure events in large-Reynolds-number turbulence, *Phys. Fluid* **12** (6), 1485-1496 (2000).
41. H. Willaime, J. Maurer, F. Moisy, P. Tabeling : Turbulence over arrays of obstacles in low temperature helium gas, *Eur. Phys. J. B* **18**, 363-369 (2000).
42. F. Moisy, P. Tabeling, H. Willaime : Kolmogorov Equation in fully developed turbulence, *Phys. Rev. Lett.* **82**, 3994-3997 (1999).

## GENERAL PUBLIC

1. M. Rabaud, F. Moisy : Du neuf dans les sillages, *Reflète de la Physique* **39**, 10-13 (2014).
2. J. Boisson, D. Cébron, F. Moisy, P.-P. Cortet : Un pendule de Foucault fluide, *Reflète de la Physique* **31**, 22-23 (2012).
3. F. Moisy, C. Lamriben, P.P. Cortet, M. Rabaud : Et pourtant elle tourne... *Plein Sud spécial Recherche* 2010-2011.
4. F. Moisy, T. Pasutto, G. Gauthier, P. Gondret et M. Rabaud : Spiral patterns in swirling flows, *Europhysics News* **34** (3), 104-107 (2003).
5. G. Gauthier, P. Gondret, F. Moisy, M. Rabaud : Patterns between two rotating disks, *Phys. Fluids* **14** (9), S7 (2002). [Gallery of Fluid Motion]
6. F. Moisy, T. Pasutto, G. Gauthier, P. Gondret et M. Rabaud : Instabilités spirales entre disques tournants, *Bull. S.F.P.* **135**, 4-8 (2002).

## FREEWARES

The following Matlab toolboxes are distributed under BSD (Berkeley Software Distribution) license:

- PIVMat - A PIV post-processing and data analysis toolbox for Matlab  
<http://www.fast.u-psud.fr/pivmat>
- EzyFit - A free curve fitting toolbox for Matlab  
<http://www.fast.u-psud.fr/ezyfit>

## CONFERENCE PROCEEDINGS: 32

1. A. Paquier, F. Moisy, M. Rabaud, Comment naissent les vagues sous l'effet du vent ?, *Comptes-rendus de la 18ème rencontre du non-linéaire*, 18-19 mars 2015, Université Paris Diderot, Paris.
2. P.P. Cortet, G. Bordes, F. Moisy, T. Dauxois, Instabilité d'une onde plane d'inertie par résonance triadique, *Comptes-rendus de la 16ème rencontre du non-linéaire*, p.13. 25-27 mars 2013, Université Paris Diderot, Paris.
3. M. Rabaud and F. Moisy, Narrow ship wakes and wave drag for planing hulls, *International Conference on Innovation in High Performance Sailing Yachts*, 26-28 June 2013, Lorient, France.
4. T. Seon, Y. Tanino, J. Znaïen, F. Moisy, JP Hulin and D. Salin, Buoyancy driven mixing in confined geometries, *XII Meeting of Fluids and their Applications*, 5-7 Novembre 2012 Buenos-Aires, Argentina. *Anales AFA 23 Fluides*, 43-46 (2012).
5. C. Lamriben, P.P. Cortet, F. Moisy : Anisotropic energy transfers in rotating turbulence, *J. Phys.: Conf. Ser.* **318**, 042005 (2011). *Proceedings of the 13th European Turbulence Conference*, Warsaw, 12-15 September 2011.
6. P.P. Cortet, C. Lamriben, F. Moisy, L. R. M. Maas : Damping inertial modes excitation in a closed grid turbulence experiment under rotation, *J. Phys.: Conf. Ser.* **318**, 082019 (2011). *Proceedings of the 13th European Turbulence Conference*, Warsaw, 12-15 September 2011.
7. M. Rabaud, F. Moisy : Estimation des corrections non-linéaires dans la méthode FS-SS de mesure optique de la surface d'un liquide transparent, *20ème Congrès Français de Mécanique*, 29 août - 2 septembre 2011, Besançon.
8. F. Moisy, C. Lamriben, P.P. Cortet, Anisotropic energy transfers in decaying rotating turbulence, *Euromech Colloquium 525*, 21-23 June 2011, Ecully, France.
9. C. Lamriben, P.P. Cortet, F. Moisy, L.R.M. Maas, Excitation of inertial modes in a closed grid turbulence experiment under rotation, *Euromech Colloquium 525*, 21-23 June 2011, Ecully, France.

10. F. Moisy, L. Agostini, G. Tan : Structure functions and energy transfers in a decaying rotating turbulence experiment, 12th Euromech European Turbulence Conference, Springer Proceedings in Physics **132**, Ed. by B. Eckhardt, 427-430 (2009).
11. J. Znaïen, F. Moisy, J.-P. Hulin, Mélange turbulent de fluides sous l'effet de la gravité dans un tube incliné, 19<sup>ème</sup> Congrès Français de Mécanique, Marseille, 24-28 août, 2009.
12. F. Moisy, M. Rabaud, E. Pinsolle : Measurement by Digital Image Correlation of the topography of a liquid interface, ISFV13 - 13th International Symposium on Flow Visualization, and FLUVISU12 - 12th French Congress on Visualization in Fluid Mechanics, Paper #326, July 1-4, 2008, Nice (2008).
13. M. Rabaud, F. Moisy : Optical measurement of ship waves by Digital Image Correlation, International Conference on Innovation in High Performance Sailing Yachts, 29-30 May 2008, Lorient, France, ISBN 978-1-905040-46-9e, pages 23-25 (2008).
14. M. Rabaud, F. Moisy and J. Rolland, Mesure de la déformation d'une surface libre par analyse du déplacement apparent d'un motif aléatoire de points, 18<sup>e</sup> Congrès Français de Mécanique, Grenoble, 27-31 août 2007.
15. C. Morize, F. Moisy, M. Rabaud, J. Sommeria : Dynamics of the anisotropy in decaying rotating turbulence with confinement effects, 18<sup>ème</sup> Congrès Français de Mécanique, Grenoble, 27-31 août 2007.
16. C. Morize, F. Moisy, M. Rabaud, J. Sommeria: On the cyclone-anticyclone asymmetry in decaying rotating turbulence, CD-ROM Conference on Turbulence and Interactions TI2006, May 29 - June 2, 2006, Porquerolles, France (2006).
17. F. Moisy, C. Morize, M. Rabaud: The decay law of grid turbulence in a rotating tank, CD-ROM Conference on Turbulence and Interactions TI2006, May 29 - June 2, 2006, Porquerolles, France (2006).
18. F. Moisy, J. Jimenez : Clustering of intense structures in isotropic turbulence: numerical and experimental evidence, IUTAM Symposium on Elementary Vortices and Coherent Structures: Significance in Turbulence Dynamics, Kyoto, Japan, 26-28 October 2004. Ed. S. Kida, Springer-Verlag, 3-12 (2006).
19. C. Morize, F. Moisy et M. Rabaud, Etude expérimentale de la turbulence en rotation, 17<sup>ème</sup> Congrès Français de Mécanique, Troyes (2005).
20. C. Nore, O. Daube, F. Moisy, L. Quartier, M. Tartar, L. S. Tuckerman et S. Xin, Instabilités tridimensionnelles de l'écoulement de von Karman entre disques contra-rotatifs, Rencontre du Non Linéaire IHP Paris, Ed. Paris Onze (2005).
21. F. Moisy, C. Morize and M. Rabaud : Energy spectrum in rotating turbulence, XXI<sup>st</sup> ICTAM Conference, Warsaw, CD-ROM ISBN 83-89697-01-1 (2004).
22. C. Morize, F. Moisy and M. Rabaud, Etude de la transition 3D-2D des écoulements turbulents en rotation, Rencontre du Non Linéaire IHP Paris, Ed. Paris Onze, 215-219 (2004).
23. Doaré, F. Moisy et O. Daube : Etude expérimentale et numérique de l'instabilité entre disques contrarotatifs, 16<sup>ème</sup> congrès francophone de mécanique (2003).
24. F. Moisy et T. Pasutto, Etude des instabilités de l'écoulement entre disques contra-rotatifs par PIV, 8<sup>ème</sup> Congrès Francophone de Vélocimétrie Laser, 393-398 (2002).
25. Daube, P. Le Queré, F. Moisy and M. Rabaud : Numerical and Experimental investigation of the stability of the 3D flow between two counter-rotating disks, Proceeding 2<sup>nd</sup> International Conference on Computational Fluid Dynamics, 485-490 (2002).
26. F. Moisy, J. Jiménez, H. Willaime et P. Tabeling : Organisation des structures intenses en turbulence, Rencontre du Non Linéaire IHP Paris, Ed. Paris Onze, 183-188 (2001).
27. F. Moisy, H. Willaime, J.S. Andersen et P. Tabeling : Passive scalar intermittency : Statistics of the Cliffs, in "Advances in Turbulence VIII", Ed. by C. Dopazo, CIMNE Barcelona, 835-838 (2000).
28. F. Moisy et P. Petitjeans : Pressure measurements in a stretched vortex, in "Vortex Structure and Dynamics", Lecture Notes in Physics, Ed. by A. Maurel and P. Petitjeans, 252-262 (2000).
29. F. Moisy, A. La Porta, G.A. Voth et E. Bodenschatz : Using cavitation as a probe of low-pressure filaments in turbulence, in " Vortex Structure and Dynamics", Lecture Notes in Physics, Ed. by A. Maurel and P. Petitjeans, 263-274 (2000).

30. J. Jiménez, F. Moisy, P. Tabeling et H. Willaime : Scaling and structure in isotropic turbulence, in "Intermittency in turbulent flows", Ed. by C. Vassilicos, Cambridge Univ. Press, 193-212 (1999).
31. F. Belin, F. Moisy, P. Tabeling et H. Willaime : Worms in a turbulence experiment, from hot wire time series, Trends in Mathematics, Birkhäuser Verlag Basel/Switzerland, 129 (1999).
32. F. Moisy, P. Tabeling et H. Willaime : Equation de Kolmogorov et structures en turbulence développée, 2eme Rencontre du Non Linéaire, Paris, Ed. Paris Onze, 219-224 (1999).

1 Sept 2017.