

## PUBLICATION LIST

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## Articles

### Under evaluation

- 100• J. Stehlé, A. Barrat, C. Cattuto, V. Colizza, L. Isella, J.-F. Pinton, W. van der Broeck, P. Vanhems, N. Voirin, Disease spreading on a dynamical network, *Proc. Comput. Sci.* (01/2010)
- 99• R. Volk, E. Calzavarini, E. Lévêque, J.-F. Pinton, Dynamics of an inertial range particle in a turbulent flow, *J. Fluid. Mech.* (01/2010)
- 98• R. Zimmermann, H. Xu, Y. Gasteuil, M. Bourgoïn, R. Volk, J.-F. Pinton, E. Bodenschatz, The Lagrangian Exploration Module: An Apparatus for the Study of Statistically Homogeneous and Isotropic Turbulence, submitted to *Review of Scientific Instruments* (12/2009)
- 97• C. Cattuto, W. Van den Broeck, A. Barrat, V. Colizza, J.-F. Pinton, A. Vespignani, Dynamics of person-to-person interactions from distributed RFID sensor networks , submitted to *PLOS One*, 12/2009.
- 96• R. Benzi, J.-F. Pinton, Magnetic reversals in a simple model of MHD, submitted to *Phys. Rev. Lett.*, (04/2009)

### 2010

- 95• G. Verhille, N. Plihon, M. Bourgoïn, Ph. Odier, J.-F. Pinton, Induction in a von Kármán flow driven by ferromagnetic impellers, accepted for publication in *New J. Phys.*, (06-01-2010)

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- 94• P. Vanhems, N. Voirin, M.-C. Nicolle, N. Khafner, C. Rgis, J.-F. Pinton, A. Barrat, C. Cattuto, W. van der Broeck, Simulation de la transmission croisée et aérienne: mesures de contacts et applications à l'épidémiologie des infections nosocomiales, *HygièneS VII*(5), 352 (2009)
- 93• G. Verhille, N. Plihon, J.-F. Pinton, S. Khripchenko, A. Shukanovsky, P. Frick, Flow topology in a MHD-stirrer, to appear in *Magnetohydrodynamics* (2009)
- 92• G. Verhille, N. Plihon, R. Volk, M. Bourgoïn and J.-F. Pinton: Dynamics of the Bullard - von Kármán dynamo, to appear in *Geophys. Astrophys. Fluid Dyn.* (2009)
- 91• M. Berhanu, R. Monchaux, M. Bourgoïn, Ph. Odier, J.-F. Pinton, N. Plihon, R. Volk, S. Fauve, N. Mordant, F. Pétrélis<sup>1</sup>, S. Aumaître, A. Chiffaudel, F. Daviaud, B. Dubrulle, F. Ravelet, Bistability between a stationary and an oscillatory dynamo in a turbulent flow of liquid sodium, *J. Fluid. Mech.* **641**, 217-226, (2009)
- 90• G. Verhille, N. Plihon, M. Bourgoïn, N. Plihon, Ph. Odier, R. Volk, J.-F. Pinton, Laboratory dynamo experiments, *Space Sci. Rev.*, DOI 10.1007/s11214-009-9546-1, (2009)
- 89• G. Verhille, N. Plihon, J.-F. Pinton, V. Noskov, R. Stepanov, P. Frick, Velocity measurement in a spin-down flow inside a torus, *Phys. Fluids* **21**, 045109 (2009)

- 88• E. Calzavarini, R. Volk, E. Lévêque, M. Bourgoin, F. Toschi and J.-F. Pinton, Acceleration statistics of finite-size particles in turbulent flow: the role of Faxén corrections, *J. Fluid Mech.* **630**, 179–189 (2009)
- 87• J.-F. Pinton, Y. Gasteuil, W.L. Shew, M. Gibert, Des particules instrumentées pour une mesure Lagrangienne du flux de chaleur. Illustration en convection de Rayleigh-Bénard, *Techniques de l'Ingénieur*, RE-134, (2009)  
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- 86• M. Rast and J.-F. Pinton, Point-vortex model for Lagrangian intermittency in turbulence, *Phys. Rev. E* **79**, 046314 (2009)
- 85• A. Barrat, C. Cattuto, V. Colizza, J.-F. Pinton, W. van den Broeck, A. Vespignani, Mining social interactions with active RFID, *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering (LNICST)*, Springer, (2009)
- 84• R. Monchaux, M. Berhanu, S. Aumaître, A. Chiffaudel, F. Daviaud, B. Dubrulle, L. Marié, F. Ravelet, S. Fauve, N. Mordant, F. Pétrélis, M. Bourgoin, P. Odier, J.-F. Pinton, N. Plihon, R. Volk, The VKS experiment: turbulent dynamical dynamos, *Phys. Fluids* **21**, 035108 (2009)

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- 83• R. Monchaux, M. Berhanu, S. Aumaître, A. Chiffaudel, F. Daviaud, B. Dubrulle, F. Ravelet, M. Bourgoin, Ph. Odier, J.-F. Pinton, N. Plihon, R. Volk, S. Fauve, N. Mordant, F. Pétrélis, Chaotic dynamos generated by a turbulent flow of liquid sodium, *Phys. Rev. Lett.* **101**, 074502 (2008)
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- 80• International Collaboration for Turbulence Research (I.C.T.R.), A. Arnéodo, R. Benzi, J. Berg, L. Biferale, E. Bodenschatz, A. Busse, E. Calzavarini, B. Castaing, M. Cencini, L. Chevillard, R. Fisher, R. Grauer, H. Homann, D. Lamb, A.S. Lanotte, E. Lévêque, B. Lüthi, J. Mann, N. Mordant, W.-C. Müller, S. Ott, N. T. Ouellette, J.-F. Pinton, S.B. Pope, S.G. Roux, F. Toschi, H. Xu, and P.K. Yeung: Universal intermittent properties of particle trajectories in highly turbulent flows, *Phys. Rev. Lett.* **100**(25), 254504 (2008)
- 79• M. Bourgoin, R. Volk, N. Plihon, P. Augier, J.-F. Pinton: A synthetic turbulent dynamo, *New J. Phys.* 10th Anniversary Highlights (2008)
- 78• R. Volk, E. Calzavarini, G. Verhille, D. Lohse, N. Mordant, J.-F. Pinton, F. Toschi, Acceleration of heavy and light particles in turbulence: comparison between experiments and direct numerical simulations, *Physica D* **237**(14), 2084-2089 (2008)
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- 76• R. Volk, N. Mordant, G. Verhille, J.-F. Pinton: Measurement of particle and bubble acceleration in turbulence, *Europhys. Lett.* **81**, 34002 (2008)

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- 72• W.L. Shew, Y. Gasteuil, M. Gibert, J.-F. Pinton : An instrumented tracer for Lagrangian measurements in Rayleigh-Bénard convection, *Rev. Sci. Instr.*, **78** 065105 (2007)
- 71• F. Daviaud, J.-F. Pinton, S. Fauve (Équipe VKS) L'expérience VKS2: observation d'une dynamo turbulente et des renversements erratiques du champ magnétique, *Reflète de la Physique*, **3**, 14-16 (2007)
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- 68• L. Chevillard, E. Lévêque, J.-F. Pinton, S. Roux, A. Arnéodo, N. Mordant : Lagrangian intermittencies in static and dynamic turbulent velocity fields, from direct numerical simulations, *J. of Turb.*, **8**(3), 1-9 (2007)
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