

PUBLICATIONS

1971-2016

*Marie Farge, DRI CNRS
LMD-IPSL, ENS Paris
INSMI, section 41*

*All articles can be downloaded from
<http://wavelets.ens.fr> in **Publications***

Articles are numbered from the first one published in 1971.

Color code :

- R Articles published in peer-reviewed journals (R for 'Référés')*
 - C Articles published in peer-reviewed proceedings (C for 'Conférences')*
 - O Articles published in books (O for 'Ouvrages')*
 - D Other articles (D for 'Divers')*
-

2016

377-C117

Rodrigo Pereira, Romain Nguyen van yen, Kai Schneider
and Marie Farge, 2016

Dissipation in adaptive wavelet discretizations

*5th Chilean Workshop on Numerical Analysis of Partial Differential Equations
(WONAPDE 2016), January 11th-15th 2016, Universidad de Concepcion
(Chile)*

376-R99

Seung-Bu Park, Pierre Gentine, Kai Schneider and Marie Farge, 2016

Coherent structures in the boundary and cloud layers: role of updrafts,
subsiding shells, and environmental subsidence

J. Atmospheric Science, accepted

375-D122

Marie Farge, 2016

Un article scientifique n'est pas une marchandise mais un bien commun
I2D-Information, Données & Documents, in press

374-R98

Frank Jacobitz, Kai Schneider, Wouter Bos and Marie Farge, 2016
Structure of sheared and rotating turbulence: multiscale statistics of Lagrangian and Eulerian accelerations and passive scalar dynamics
Phys. Rev. E, **93**, 013113

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373-C116

Seung-Bu Park, Pierre Gentine, Kai Schneider and Marie Farge, 2015
Detecting coherent structures in large-eddy simulation of shallow convection
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372-D121

Marie Farge, Teluo Sakurai, Katsunori Yoshimatsu, Kai Schneider, Koji Morishita and Takashi Ishihara, 2015
Isotropic boundary-adapted wavelets for coherent vorticity extraction in turbulent channel flows
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371-R97

Marie Farge and Kai Schneider, 2015
Wavelet transforms and their applications to MHD and plasma turbulence: a review
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370-C115

Frank Jacobitz, Kai Schneider and Marie Farge, 2015
Multiscale statistics of Lagrangian and Eulerian acceleration in turbulent stratified shear flows
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369-D120

Frank Jacobitz, Kai Schneider and Marie Farge, 2015
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Bull. Amer. Phys. Soc., **60**(21), 275-276

368-C114

Frank Jacobitz, Kai Schneider and Marie Farge, 2015
On acceleration statistics in turbulent stratified shear
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367-D119

Romain Nguyen van yen, Mathias Waidmann, Rupert Klein
and Marie Farge, 2015
Interaction of two-dimensional incompressible flow with solid boundaries at
vanishing viscosity: boundary layer scaling and detachment
Preprint, Mathematics Department, Freie Universität Berlin (Germany)

366-C113

Katsunori Yoshimatsu, Teluo Sakurai, Kai Schneider, Marie Farge,
Koji Morishita and Takashi Ishihara, 2015
Coherent vorticity in turbulent channel flow: a wavelet viewpoint
*9th International Symposium on Turbulence and Shear Flow Phenomena
(TSFP-9), June 30 - July 3rd 2015, University of Melbourne (Australia),
paper 4B-5, 5 pages*

2014

365-C112

Romain Nguyen van yen, Mathias Waidmann, Marie Farge, Kai Schneider
and Rupert Klein, 2014
Production of dissipative vortices by solid bodies in incompressible fluid flows:
comparison between Prandtl, Navier-Stokes and Euler solutions
International Congress of Mathematicians, Seoul (Korea), 412

364-R96

Kai Schneider, Mickael Paget-Goy, Alberto Verga and Marie Farge, 2014
Numerical simulation of impulsively started and uniformly accelerated plates
Computational and Applied Mathematics, 33(2), 481-495

363-C111

Katsunori Yoshimatsu, Teluo Sakurai, Kai Schneider, Marie Farge,
Koji Morishita and Takashi Ishihara, 2014
Coherent vorticity extraction in turbulent channel flow using anisotropic
wavelets
*67th Annual Conference, Division of Fluid Dynamics, American Physical
Society, 23-25 November 2014, San Fransisco (USA)*

362-O40

Marie Farge, Keith Moffatt and Kai Schneider, 2014
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Colloquium Marseille of 1961
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361-C110

Romain Nguyen van yen, Marie Farge, Mathias Waidmann,
Rupert Klein and Kai Schneider, 2014
Unsteady boundary layer detachment in planar flows at large
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Physical Society, 23-25 November 2014, San Francisco (USA)*

360-R95

Naoya Okamoto, Katsunori Yoshimatsu, Kai Schneider and Marie Farge, 2014

Small-scale anisotropic intermittency in magnetohydrodynamic turbulence at low magnetic Reynolds number

Phys. Rev. E, **89**, 033013

359-C109

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358-R94

Olivier Pannekoucke, Laure Raynaud and Marie Farge, 2014

A wavelet-based filtering of ensemble background-error variances
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357-R93

Marie Farge, Keith Moffatt and Kai Schneider, 2013

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J. of Turbulence, **14**(9), 39-42

356-C108

Romain Nguyen van yen, Mathias Waidmann, Marie Farge, Kai Schneider and Rupert Klein, 2013

Production of dissipative vortices by solid bodies in incompressible fluid flows: comparison between Prandtl, Navier-Stokes and Euler solutions

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355-R92

Rodrigo Pereira, Romain Nguyen van yen, Marie Farge and Kai Schneider, 2013

Wavelet methods for regularizing the inviscid Burgers and the 2D Euler equations

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354-D118

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Eliminating resonances in the Galerkin-truncated Burgers and Euler equations using wavelet filtering

Bull. Amer. Phys. Soc., **58**(18), 443-444

353-C107

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for 2D flows in the presence of solid boundaries
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Fluid Dynamics, Pittsburgh, 24-26th November 2013*

352-D117

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<http://gowers.wordpress.com>

351-C106

Frank Jacobitz, Kai Schneider, Wouter Bos and Marie Farge, 2013
On Lagrangian and Eulerian Acceleration in Rotating and Sheared
Homogeneous Turbulence
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350-D116

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*Annual Conference of the American Physical Society, Division of
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348-D115

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345-C103

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Lyon (France)*

343-R91

Katsunori Yoshimatsu, Naoya Okamoto, Yasuhiro Kawahara,
Kai Schneider and Marie Farge, 2013
Coherent vorticity and current density simulation of three-dimensional
magnetohydrodynamic turbulence using orthogonal wavelets
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342-C101

F. Jacobitz, K. Schneider, W.J.T. Bos and M. Farge, 2013
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in rotating and sheared homogeneous turbulence
*14th European Turbulence Conference, 1-4 September 2013, Lyon
(France)*

341-O39

Marie Farge, Romain Nguyen van yen, Olivier Pannekoucke
and Kai Schneider, 2013
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*Handbook of Environmental Fluid Dynamics, ed. H.J. Fernando,
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340-C100

Kai Schneider, Dmitry Kolomenskiy, Thomas Engels,
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and Kai Schneider, 2012

Fluid dynamics of flapping wings associated with change of
domain topology

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338-D113

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Le coût du savoir

Gazette des Mathématiciens, n° 132, 75-82

337-D112

Kai Schneider, Romain Nguyen van yen, Nicolas Fedorczak,
Frederic Brochard, Gerard Bonhomme, Marie Farge
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using wavelet-vaguelette decomposition,

Bull. Amer. Phys. Soc., **57**(12)

336-D111

D. Kolomenskiy, H.K. Moffatt, M. Farge and K. Schneider, 2012

Unsteady flow near front and rear stagnation points

Bull. Amer. Phys. Soc., **57** (17), 469, 2012

335-C98

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On helical multiscale characterization of homogeneous turbulence

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334-D110

M. Farge, R. Nguyen van yen and K. Schneider, 2012

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Bull. Amer. Phys. Soc., **57** (17), 453

333-D109

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Turbulence

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332-D108

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331-R90

Frank Jacobitz, Kai Schneider, Wouter Bos and Marie Farge, 2012
On helical multiscale characterization of homogeneous turbulence
J. Turbulence, **13**, n° 35, 1-16

330-C97

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and Kai Schneider, 2012
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329-D107

Romain Nguyen van yen, Eric Sonnendrucker, Kai Schneider
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Particle-in-Wavelets scheme for the 1D Vlasov-Poisson equations
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328-D106

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327-R89

Michael Wilczek, Benjamin Kadoch, Kai Schneider, Rudolf Friedrich
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Romain Nguyen van yen, Nicolas Fedorczak, Frédéric Brochard, Kai
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321-R87

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318-D104

Marie Farge, 2011

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317-R85

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