

PUBLICATIONS

1971-2023

Last update : January 2023

*Marie Farge, DRI CNRS
LMD-IPSL, ENS Paris, PSL
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')
-

2022

419-D137

Marie Farge, 2022

Evolution of turbulence theories and the need for continuous wavelets

arXiv:2209.01808, 77 pages, 21 figures, 2 photos

418-R110

Odin Mendes, Kai Schneider, Margarete Oliveira Domingues, Marie Farge,
Nalinabulal Trivedi, Peter Frick and Natacha Nguyen van yen, 2022

Geomagnetically Induced Current Analyzed with Wavelet Extraction

Braz. J. Phys., 52-192

417-R109

Thomas Engels, Hung Truong, Marie Farge, Dmitry Kolomenskiy and
Kai Schneider, 2022

Computational aerodynamics of insect flight using volume penalization

C. R. Acad. Sci. Paris, Mécanique, 350(S1), 1-20

416-R108

Rodrigo Pereira, Natacha Nguyen van yen, Kai Schneider and Marie Farge, 2022

Adaptive solution of initial value problems by a dynamical Galerkin scheme
SIAM Multiscale Model. Simul., **20**(3), 1147-1166
arXiv :2111.04863

2021

415-C132

Rodrigo Pereira, Natacha Nguyen van Yen, Kai Schneider and Marie Farge 2021

Adaptive solution of initial value problems by a dynamical Galerkin scheme
Wavelets and Applications, Sociedade Brasileira de Matematica Aplicada e Computacional, 10-11 Novembro 2021, Sao Jose dos Campos

414-R107

Thomas Engels, Kai Schneider, Julius Reiss and Marie Farge, 2021

A wavelet-adaptive method for multiscale simulation of turbulent flows in flying insects
Commun. Comput. Phys., **30**(4), 1118-1149

413-C131

Dmitry Kolomenskiy, Sridhar Ravi, Ru Xu, Kohei Ueyama, Timothy Jakobi, Thomas Engels, Toshiyuki Nakata, Jörn Sesterhenn, Marie Farge, Kai Schneider, Ryo Onishi and Hao Liu, 2021

The dynamics of bumblebees wing patching rotation : measurements and modelling

Notes on Numerical Fluid Mechanics and Multidisciplinary Design, vol. 147, 125-133

2019

412-R106

Dmitry Kolomenskiy, Sridhar Ravi, Ru Xu, Kohei Ueyama, Timothy Jakobi, Thomas Engels, Toshiyuki Nakata, Jörn Sesterhenn, Marie Farge, Kai Schneider, Ryo Onishi and Hao Liu, 2019

Wing morphology and inertial properties of bumblebees
J. Aero Bio-mechanisms, **8**(1), 41-47

411-R105

Thomas Engels, Dmitry Kolomenskiy, Kai Schneider, Marie Farge, Fritz-Olaf Lehmann and Joern Sesterhenn, 2018

Impact of turbulence on flying insects in tethered and free flight: high-resolution numerical experiments
Phys. Rev. Fluids, **1**(4), 013103

2018

410-C130

Marie Farge and Jean Gasnault, 2018

Towards Open Science and Open Doctrine. The principles and laws that promote the sharing of knowledge, and how they are implemented

International Conference LVI-2018 'Knowledge of the law in the big data age', Florence (Italy), October 11-12 2018

409-R104

Natacha Nguyen van yen, Mathias Waidmann, Rupert Klein, Marie Farge and Kai Schneider, 2018

Energy dissipation caused by boundary layer instability at vanishing viscosity

J. Fluid Mech., 849, 676-717

arXiv: 1706.00942

410-D136

Kai Schneider, Rodrigo Pereira, Natacha Nguyen van yen and Marie Farge, 2018

Dissipation in adaptive wavelet Galerkin discretizations

Bulletin of the American Physical Society **63**(13), 478

408-R103

Marie Farge and Frédéric Hélein, 2018

Is the system of scientific publications on the eve of a revolution? And, if so, towards what?

European Mathematical Society Newsletter, **6**(108), 35-40

407-C129

Natacha Nguyen van yen, Mathias Waidmann, Marie Farge, Kai Schneider and Rupert Klein, 2018

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

Proceedings of the International Congress of Mathematicians, Rio de Janeiro (Brésil), 1-9 August 2018

406-C128

Naoya Okamoto, Marie Farge, Kai Schneider and Katsunori Yoshimatsu, 2018

Wavelet regularization of the three-dimensional incompressible Euler equations

Proceedings of the 12th European Fluid Mechanics Conference, Vienna (Austria), 9-13 September 2018

405-D135

Marie Farge et Frédéric Hélein, 2018

Transition vers l'Accès Libre: le piège des accords globaux avec les éditeurs

Mediapart, 13 Avril 2018

404-D134

Thomas Engels, Dmitry Kolomenskiy, Kai Schneider, Marie Farge, Fritz-Olaf Lehmann and Joern Sesterhenn, 2018
Insects in tethered and free flight: the impact of turbulent inflow
Bulletin of the American Physical Society **63**(13), 533

403-R102

Thomas Engels, Dmitry Kolomenskiy, Kai Schneider, Marie Farge, Fritz-Olaf Lehmann and Joern Sesterhenn, 2018
Helical vortices generated by flapping wings of bumblebees
Fluid Dyn. Res., **50**(1), 011419 (21 pages)
arXiv: 1803.07330

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402-C127

Frank Jacobitz, Kai Schneider and Marie Farge, 2017
On the scale-dependent helicity in stably stratified turbulent shear flows
Proceedings of the Pacific Division of AAAS, TCM2017, Waimea, Hawaii Island (USA), 19-23 June 2017, 63

401-R101

Marie Farge, Naoya Okamoto, Kai Schneider and Katsunori Yoshimatsu, 2017
Wavelet-based regularization of the Galerkin truncated three-dimensional incompressible Euler flows
Phys. Rev. E, **96** (6), 063119 (9 pages)
<https://doi.org/10.1103/PhysRevE.96.063119>
arXiv: 1711.04017

400-C126

Marie Farge, Naoya Okamoto, Katsunori Yoshimatsu and Kai Schneider, 2017
Wavelet regularization of 3d incompressible Euler flows
16th European Turbulence Conference, 21-24 August 2017, Stockholm (Sweden), 29422

399-D133

Thomas Engels, Dmitry Kolomenskiy, Kai Schneider, Marie Farge, Fritz-Olaf Lehmann and Joern Sesterhenn, 2017
Massively parallel free-flight simulations of a passive bumblebee in turbulence
Bulletin of the American Physical Society **62**(14), 413

398-C125

Benjamin Kadoch, Maxime Bassenne, Mahdi Esmaily-Moghadam, Kai Schneider, Marie Farge and Wouter Bos, 2017
Multi-scale geometrical Lagrangian statistics: Extensions and applications to particle-laden turbulent flows

Center for Turbulence Research, Proceedings of the Summer Program 2016, Stanford University (USA), 53-62

397-O42

Marie Farge, 2017

Scholarly publishing and peer-reviewing in open access

Europe's Future: Open Science, Open Innovation, and Open to the World

Book edited by Carlos Moedas, the European Commissioner for Research, Science and Innovation, and published by the European Commission, 73-82

396-C124

Henja Wehmann, Thomas Engels, Kai Schneider, Marie Farge, Joern Sesterhenn and Fritz-Olaf Lehmann, 2017

Corrugation alters aerodynamic performance in flapping insect wings

110th Annual Conference of the German Zoological Society (DZG), 12-15 September 2017, Bielefeld University (Germany)

395-D132

Thomas Engels, Dmitry Kolomenskiy, Kai Schneider,

Marie Farge, Fritz-Olof Lehmann and Joern Sesterhenn, 2017

Bumblebee flight in turbulence: high resolution numerical simulations

Movie for the Gallery of Fluid motion, 70th Annual Conference, Division of Fluid Dynamics, American Physical Society, Denver (USA), 19-21 November 2017

394-C123

Romain Nguyen van yen, Marie Farge, Kai Schneider, Mathias Waidmann and Rupert Klein, 2017

Energy dissipation caused by boundary layer instability at vanishing viscosity

16th European Turbulence Conference, 21-24 August 2017, Stockholm (Sweden), 29420

393-O41

Marie Farge et Patricia Mirabile, 2017

Publications scientifiques: changer les pratiques

'Maths et Langage', ouvrage collectif publié à 10 000 exemplaires par le CIJM (Comité International des Jeux Mathématiques) et offert gratuitement lors du 18ième 'Salon de la Culture Mathématique', 87-92, pour télécharger l'ouvrage

<http://www.cijm.org/images/documents/90/Maths%20Langages%20express.pdf>

392-C122

Bryan He, Sourabh Apte, Kai Schneider, Benjamin Kadoch and Marie Farge, 2017

Turbulence and inertial effects in a porous bed:
DNS and flow analysis
*Center for Turbulence Research, Proceedings of the Summer
Program 2016, Stanford University (USA), 63-72*

391-D131

Marie Farge, 2017

RISE report on publishing and peer-reviewing in open access
*Written for the European Commission as member of the RISE
(Research, Innovation and Science Experts) working group, 1-39*

390-C121

Naoya Okamoto, Marie Farge, Kai Schneider
and Katsunori Yoshimatsu, 2017

Wavelet regularisation of three-dimensional incompressible
Euler flows

*Proceedings of the Pacific Division of AAAS, TCM2017,
Waimea, Hawaii Island (USA), 19-23 June 2017, 72*

389-R100

Teluo Sakurai, Katsunori Yoshimatsu, Kai Schneider, Marie
Farge, Koji Morishita, Takashi Ishihara, 2017

Coherent structure extraction in turbulent channel flow using
boundary adapted wavelets

J. of Turbulence, 18(4), 352-375

arXiv: 1607.04621

388-D130

Marie Farge, Naoya Okamoto, Kai Schneider
and Katsunori Yoshimatsu, 2017

Wavelet-based regularization of the Galerkin truncated
three-dimensional incompressible Euler equations

Bulletin of the American Physical Society 62(14), 528-529

387-C120

Benjamin Kadoch, Maxime Bassenne, Mahdi Esmaily-Moghadam,
Kai Schneider, Marie Farge and Wouter Bos, 2017

Multiscale curvature angles of inertial particles in turbulent flows

*16th European Turbulence Conference, 21-24 August 2017,
Stockholm (Sweden), 29270*

386-C119

Frank Jacobitz, Kai Schneider and Marie Farge, 2017

Scale-dependent helical properties of turbulent stratified shear
flows

*16th European Turbulence Conference, 21-24 August 2017,
Stockholm (Sweden), 29338*

2016

385-D129

Marie Farge, 2016

L'usage purement quantitatif de la bibliométrie est contre-productif pour la recherche

I2D-Information, Données & Documents, **4**, 19

384-C118

Thomas Engels, Dmitry Kolomenskiy, Kai Schneider,

Marie Farge, Fritz-Olaf Lehmann and Jörn Sesterhenn, 2016

Helical vortices generated by flapping wings of bumblebees

IUTAM Symposium 2016 on Helicity, Structures and Singularity in Fluids and Plasma Dynamics

383-D128

Bryan He, Benjamin Kadoch, Sourabh Apte, Marie Farge and Kai Schneider, 2016

Multiscale Lagrangian statistics of curvature angle in pore-scale turbulence

Bulletin of the American Physical Society **61**(20), 449

382-R99

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**(1), 013113

381-D127

Kai Schneider, Benjamin Kadoch, Maxime Bassenne,

Mahdi Esmaily-Moghadam, Marie Farge, Wouter Bos, 2016

Multiscale geometrical Lagrangian statistics: scale-dependent curvature and torsion angles in particle-laden turbulent flows

Bulletin of the American Physical Society **61**(20), 202

380-D126

Marie Farge, 2016

Les revues académiques ne devraient plus appartenir aux maisons d'édition

I2D-Information, Données & Documents, **3**, 19

379-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 11-15 2016, Universidad de Concepcion

378-D125

Marie Farge, 2016

Les chercheurs reprennent le contrôle de la dissémination de leurs oeuvres

I2D-Information, Données & Documents, **2**, 19

377-D124

Marie Farge, Thomas Engels, Dmitry Kolomenskiy,
Kai Schneider, Fritz-Olaf Lehmann and Jörn Sesterhenn, 2016
Helical vortices generated by flapping wings of bumblebees
Bulletin of the American Physical Society **61**(20), 248

376-R98

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, **73**(4), 1789-1814

375-D123

Marie Farge and Kai Schneider, 2016
Applications of continuous and orthogonal wavelet transforms to
MHD and plasma turbulence
Bulletin of the American Physical Society, **61**(18), 42

374-D122

Marie Farge, 2016
Un article scientifique n'est pas une marchandise mais un bien commun
I2D-Information, Données & Documents, **1**, 19

2015

373-C116

Seung-Bu Park, Pierre Gentine, Kai Schneider and Marie Farge, 2015
Detecting coherent structures in large-eddy simulation of shallow convection
American Geophysical Union (AGU) Fall Meeting, 14-18 December 2015, San Francisco (USA)

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
Bull. Amer. Phys. Soc., **60**(21), 602

371-R97

Marie Farge and Kai Schneider, 2015
Wavelet transforms and their applications to MHD and plasma turbulence:
a review
J. Plasma Phys., **81**(6), 435810602 (43 pages)
arXiv: 1508.05650

370-C115

Frank Jacobitz, Kai Schneider and Marie Farge, 2015
Multiscale statistics of Lagrangian and Eulerian acceleration in turbulent

stratified shear flows

15th European Turbulence Conference, 25-28 August 2015, Delft (Netherlands)

369-D120

Frank Jacobitz, Kai Schneider and Marie Farge, 2015

Lagrangian and Eulerian time-rate of change statistics of fluctuating vorticity in turbulent stratified shear flows

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

Flows 9th International Symposium on Turbulence and Shear Flow Phenomena (TSFP-9), June 30th-July 3rd 2015, University of Melbourne (Australia), 3C-4

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), 4B-5

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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 Francisco (USA),
Bull. Amer. Phys. Soc., 59(20), 400*

362-O40

Marie Farge, Keith Moffatt and Kai Schneider, 2014
Fundamental problems of turbulence : 50 years after the Turbulence
Colloquium Marseille of 1961
EDP Sciences, 508 pages, ISBN 978-2-7598-1145-8

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
Reynolds number
*67th Annual Conference, Division of Fluid Dynamics, American
Physical Society, 23-25 November 2014, San Francisco (USA),
Bull. Amer. Phys. Soc., 59(20), 264*

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

Frank Jacobitz, Kai Schneider and Marie Farge, 2014
Lagrangian and Eulerian Acceleration Statistics in Turbulent
Stratified Shear Flows,
*67th Annual Conference, Division of Fluid Dynamics, American
Physical Society, 23-25 November 2014, San Francisco (USA),
Bull. Amer. Phys. Soc., 59(20), 72*

358-R94

Olivier Pannekoucke, Laure Raynaud and Marie Farge, 2014
A wavelet-based filtering of ensemble background-error variances
Quarterly J. Royal Meteor. Soc., 140(678), 316-327

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357-R93

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Foreword: Turbulence Colloquium Marseille 2011
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

Phys. Rev. E, **87**, 033017, 1-8

arXiv: 1303.0980

354-D118

Kai Schneider, Rodrigo Pereira and Marie Farge, 2013

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

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

353-C107

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

Comparison between Prandtl, Navier-Stokes and Euler solutions for 2D flows in the presence of solid boundaries

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Bull. Amer. Phys. Soc., **58**(16), 384

352-D117

Tim Gowers, ... Farge et al. (with 23 co-authors), 2013

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<http://gowers.wordpress.com>

351-C106

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On Lagrangian and Eulerian Acceleration in Rotating and Sheared Homogeneous Turbulence

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350-D116

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and Marie Farge, 2013
Directional multi-scale statistics of quasi-static
magnetohydrodynamic turbulence
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Plasma Physics, Denver, 11-13th November 2013, 112*

348-D115

Odim Mendes, Kai Schneider, Margarete Domingues, Marie Farge,
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347-C104

Frank Jacobitz, Kai Schneider, Wouter Bos and Marie Farge, 2013
On multiscale acceleration statistics in rotating and sheared
homogeneous turbulence
*8th International Symposium on Turbulence and Shear Flow
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346-D114

George Khujadze, Romain Nguyen van yen, Kai Schneider,
Martin Oberlack and Marie Farge, 2013
Coherent vorticity extraction in turbulent boundary layers using
orthogonal wavelets
Preprint LMD-IPSL

345-C103

Kai Schneider, Rodrigo Pereira, Romain Nguyen van yen
and Marie Farge, 2013
Eliminating resonances in the Galerkin-truncated Burgers and
Euler equations using wavelet filtering
*Annual Conference of the American Physical Society, Division of
Fluid Dynamics, 24-26th November 2013, Pittsburgh (USA),
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344-C102

Romain Nguyen van yen, Mathias Waidmann, Marie Farge,
Kai Schneider and Rupert Klein, 2013
Comparison between Prandtl, Navier–Stokes and Euler solutions
for dipole impinging on a wall
*14th European Turbulence Conference, 1-4 September 2013,
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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
Geo. Astro. Fluid Dyn., 107(1-2), 73-92

342-C101

F. Jacobitz, K. Schneider, W.J.T. Bos and M. Farge, 2013
Scale-dependent statistics of Lagrangian and Eulerian acceleration
in rotating and sheared homogeneous turbulence
*14th European Turbulence Conference, 1-4 September 2013, Lyon
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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,
Taylor & Francis, vol. 2, 311-332*

340-C100

Kai Schneider, Dmitry Kolomenskiy, Thomas Engels,
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Numerical simulation of the clap-fling-sweep mechanism of
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Adv. Scien. Techn., 84, 57-58

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and Kai Schneider, 2012
Fluid dynamics of flapping wings associated with change of
domain topology
*IUTAM Symposium on Topological Fluid Dynamics, Cambridge
(UK)*

338-D113

Douglas Aaronson, ... Farge et al. (avec 33 co-auteurs), 2012
Le coût du savoir
Gazette des Mathématiciens, n° 132, 75-82

337-D112

Kai Schneider, Romain Nguyen van yen, Nicolas Fedorczak,
Frederic Brochard, Gérard Bonhomme, Marie Farge
and Pascale Monier-Garbet, 2012
Tomographic reconstruction of tokamak plasma light emission
using wavelet-vaguelette decomposition,
Bull. Amer. Phys. Soc., 57(12), 304

336-D111

Dmitry Kolomenskiy, Keith Moffatt, Marie Farge
and Kai Schneider, 2012
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Bull. Amer. Phys. Soc., 57 (17), 469

335-C98

Frank Jacobitz, Kai Schneider, Wouter Bos and Marie Farge, 2012
On helical multiscale characterization of homogeneous turbulence
IUTAM Symposium on Topological Fluid Dynamics, Cambridge (UK)

334-D110

Marie Farge, Romain Nguyen van yen and Kai Schneider, 2012
Nonstationary boundary layers and energy dissipation in incompressible flows
Bull. Amer. Phys. Soc., 57 (17), 453

333-D109

Wouter Bos, Frank Jacobitz, Kai Schneider and Marie Farge, 2012
On Helical Multiscale Characterization of Homogeneous Turbulence
Bull. Amer. Phys. Soc., 57 (17), 399

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Acceleration Statistics in Rotating and Sheared Turbulence
Bull. Amer. Phys. Soc., 57 (17), 457

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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Unsteady boundary layers on flapping wings
23rd ICTAM, Beijing (China)

329-D107

Romain Nguyen van yen, Eric Sonnendrücker, Kai Schneider and Marie Farge, 2012
Particle-in-Wavelets scheme for the 1D Vlasov-Poisson equations
Bull. Amer. Phys. Soc., 57(12), 354

328-D106

Douglas Aaronson, ... Farge et al. (with 33 co-authors), 2012
The cost of knowledge
<http://thecostofknowledge.com>

327-R89

Michael Wilczek, Benjamin Kadoch, Kai Schneider, Rudolf Friedrich and Marie Farge, 2012

Conditional vorticity budget of coherent and incoherent flow contributions in fully developed homogeneous isotropic turbulence

Phys. Fluids, **24**, 035108, 1-15

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326-C96

Katsunori Yoshimatsu, Naoya Okamoto, Yoshi Kawahara, Kai Schneider and Marie Farge, 2012

Coherent vorticity and current density simulation of magnetohydrodynamic turbulence

31st JSST International Conference on Simulation Technology, Kobe (Japan),

http://www.jsst.jp/e/JSST2012/paper_list.html

325-D106

Marie Farge, Alex Grossmann, Yves Meyer, Thierry Paul, Jean-Claude Risset, Ginette Saracco et Bruno Torr sani, 2012

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Gazette des Math maticiens, Soci t  Math matique de France (SMF), **131**, 47-57

324-R88

Romain Nguyen van yen, Nicolas Fedorczak, Fr d ric Brochard, Kai Schneider, Marie Farge and Pascale Monier-Garbet, 2012

Tomographic reconstruction of tokamak edge turbulence light emission from single image using wavelet-vaguelette decomposition

Nuclear Fusion, IAEA (International Atomic Energy Agency), **52**, 013005, 1-11

323-D105

Katsunori Yoshimatsu, Naoya Okamoto, Yasuhiro Kawahara, Kai Schneider and Marie Farge, 2012

Coherent vorticity and current density simulation of three-dimensional magnetohydrodynamic turbulence using orthogonal wavelets

Bull. Amer. Phys. Soc., **57**(17), 433

322-C95

Naoya Okamoto, Katsunori Yoshimatsu, Kai Schneider, Marie Farge and Yukio Kaneda, 2012

Coherent vorticity simulation of three-dimensional forced homogeneous isotropic turbulence using orthogonal wavelets

ECCOMAS 2012, Vienna (Austria)

321-R87

Romain Nguyen van yen, Marie Farge and Kai Schneider, 2012

Scale-wise coherent vorticity extraction for conditional statistical modelling of homogeneous isotropic two-dimensional turbulence

Physica D, **241**, 186-201

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320-R86

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and Kai Schneider, 2011

Two- and three-dimensional numerical simulations of the clap-fling-sweep of
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J. Fluids Struct., **27**, 784-791

319-C94

George Khujadze, Romain Nguyen van yen, Kai Schneider,
Martin Oberlack and Marie Farge, 2011

Coherent vorticity extraction in turbulent boundary layers using
orthogonal wavelets

*Turbulent Boundary Layers, Center for Turbulence Research, Summer
Program 2010, Stanford University and NASA-Ames*, 87-96

318-D104

Marie Farge, 2011

Avis sur les relations entre les chercheurs
et les maisons d'édition scientifique

Comité d'Ethique du CNRS, COMETS-CNRS, 27 Juin 2011, 1-28

317-R85

Katsunori Yoshimatsu, Kai Schneider, Naoya Okamoto,
Yasuhiro Kawahara and Marie Farge, 2011

Intermittency and geometrical statistics of three-dimensional homogeneous
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Phys. Plasmas, **18**, 092304, 1-8

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Frank Jacobitz, Kai Schneider, Wouter Bos and Marie Farge, 2011

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Bull. Amer. Phys. Soc., **56**(16), 325

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and Marie Farge, 2011

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J. Phys. Conf. Ser., **318**, 062024, 1-8

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Ménétrier, Marie Farge, Kai Schneider, Diane Douady and Lionel Guez, 2011

Influence of waves on Lagrangian acceleration in 2D turbulent flows

ESAIM Proc., **32**, 231-241

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