

PUBLICATIONS

1971-2018

Last update : May 2018

*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')*
-

2018

407-D135

Marie Farge and Frédéric Hélein, 2018

Is the system of scientific publications on the eve of a revolution?

And, if so, towards what?

Newsletter of the European Mathematical Society, submitted

406-R103

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

Energy dissipation caused by boundary layer instability at vanishing viscosity

J. Fluid Mech., under revision

arXiv:1706.00942

405-D134

Marie Farge et Frédéric Hélein, 2018

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

Mediapart, 13th April 2018

404-C128

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

Wavelet regularization of the three-dimensional incompressible Euler equations

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

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**, 011419 (21 pages)

<https://doi.org/10.1088/1873-7005/aa908f>

2017

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 preprint 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 11th-15th 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

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Detecting coherent structures in large-eddy simulation of shallow convection
American Geophysical Union (AGU) Fall Meeting, 14th-18th 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)

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 dstratified 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),
paper 3C-4, 6 pages

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),
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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
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*67th Annual Conference, Division of Fluid Dynamics, American
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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

Marie Farge, Keith Moffatt and Kai Schneider, 2013
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
*IUTAM Symposium on Vortex Dynamics: Formation, Structure
and Function, March 10-14, 2013, Fukuoka (Japan)*

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

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
*Annual Conference of the American Physical Society, Division of
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352-D117

Tim Gowers, ... Farge et al. (with 23 co-authors), 2013
The Elsevier boycott one year on
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351-C106

Frank Jacobitz, Kai Schneider, Wouter Bos and Marie Farge, 2013
On Lagrangian and Eulerian Acceleration in Rotating and Sheared
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*Annual Conference of the American Physical Society, Division of
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350-D116

Marie Farge, Mathias Waidmann, Kai Schneider
and Rupert Klein, 2013

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

Bull. Amer. Phys. Soc., **58**(18), 197

349-C105

Naoya Okamoto, Katsunori Yoshimatsu, Kai Schneider
and Marie Farge, 2013

Directional multi-scale statistics of quasi-static
magnetohydrodynamic turbulence

*Annual Conference of the American Physical Society, Division of
Plasma Physics, Denver, 11-13th November 2013*, 112

348-D115

Odin Mendes, Kai Schneider, Margarete Domingues, Marie Farge,
Nalin Babulal Trivedi, Peter Frick and Romain Nguyen van yen, 2013

Extraction of coherent geomagnetic structures in a GIC event using wavelets
Preprint LMD-ENS-IPSL

347-C104

Frank Jacobitz, Kai Schneider, Wouter Bos and Marie Farge, 2013

On multiscale accélération 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
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344-C102

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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,
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
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

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(France)*

341-O39

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Handbook of Environmental Fluid Dynamics, ed. H.J. Fernando,
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340-C100

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Numerical simulation of the clap-fling-sweep mechanism of
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339-C99

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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
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338-D113

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Gazette des Mathématiciens, n° 132, 75-82

337-D112

Kai Schneider, Romain Nguyen van yen, Nicolas Fedorczak,
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336-D111

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335-C98

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334-D110

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

333-D109

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Bull. Amer. Phys. Soc., **57** (17), 399

332-D108

Frank Jacobitz, Kai Schneider, Wouter Bos and Marie Farge, 2012
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Bull. Amer. Phys. Soc., **57** (17), 457

331-R90

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330-C97

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and Kai Schneider, 2012
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329-D107

Romain Nguyen van yen, Eric Sonnendrücker, Kai Schneider
and Marie Farge, 2012
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328-D106

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327-R89

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

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

326-C96

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

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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 Torrèsani, 2012

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Gazette des Mathématiciens, Société Mathématique de France (SMF), **131**, 47-57

324-R88

Romain Nguyen van yen, Nicolas Fedorczak, Frédéric 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

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323-D105

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

322-C95

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

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317-R85

Katsunori Yoshimatsu, Kai Schneider, Naoya Okamoto, Yasuhiro Kawahara and Marie Farge, 2011
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Phys. Plasmas, **18**, 092304, 1-8

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

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312-O38

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Wissenschaftskolleg zu Berlin, Yearbook 2009-2010, 62-74

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310-D101

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Bull. Amer. Phys. Soc., **56**(18), 264

309-R82

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ESAIM Proc., **32**, 95-102

308-C91

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Seventh International Symposium on Turbulence and Shear Flow Phenomena, Ottawa (Canada)

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Helical properties of sheared and rotating turbulence
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Particle-in-wavelet scheme for the one-dimensional Vlasov-Poisson equations
ESAIM Proc., **32**, 134-148

305-C89

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The effect of walls on energy dissipation in two-dimensional flows
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and Kai Schneider, 2011

Three-dimensional flow near the flapping wings

International Workshop on Bio-inspired Robots 2011,
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