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References

[1] Active Fluids: Effects of Hydrodynamic Stress on Growth of Self-Propelled Fluid Particles. *Journal of Applied Fluid Mechanics*, page 561, 2020.

[2] Christophe Goupil, Henni Ouerdane, Eric Herbert, Clémence Goupil, and Yves D'Angelo. Thermodynamics of metabolic energy conversion under muscle load. *New Journal of Physics*, 21(2):023021, February 2019.

[3] Ning Xie, Gwenaël Ruprich-Robert, Philippe Silar, Eric Herbert, Roselyne Ferrari, and Florence Chapeland-Leclerc. Characterization of three multicopper oxidases in the filamentous fungus Podospora anserina: A new role of an ABR1-like protein in fungal development? *Fungal Genetics and Biology*, 116:1–13, July 2018.

[4] Eric Herbert, Cyprien Morize, Aurélie Louis-Napoléon, Christophe Goupil, Pierre Jop, and Yves D'Angelo. Buoyancy-driven destabilization of an immersed granular bed. *Journal of Fluid Mechanics*, 843:778–809, May 2018.

[5] C. Morize, E. Herbert, and A. Sauret. Resuspension threshold of a granular bed by localized heating. *Physical Review E*, 96(3):032903, September 2017.

[6] C. Goupil, H. Ouerdane, E. Herbert, G. Benenti, Y. D'Angelo, and Ph. Lecoeur. Closed-loop approach to thermodynamics. *Physical Review E*, 94(3):032136, September 2016.

[7] Simon Thalabard, Brice Saint-Michel, Eric Herbert, François Daviaud, and Bérengère Dubrulle. A statistical mechanics framework for the large-scale structure of turbulent von Kármán flows. *New Journal of Physics*, 17(6):063006, June 2015.

[8] B. Rousset, P. Bonnay, P. Diribarne, A. Girard, J. M. Poncet, E. Herbert, J. Salort, C. Baudet, B. Castaing, L. Chevillard, F. Daviaud, B. Dubrulle, Y. Gagne, M. Gibert, B. Hébral, Th. Lehner, P.-E. Roche, B. Saint-Michel, and M. Bon Mardion. Superfluid high REynolds von Kármán experiment. *Review of Scientific Instruments*, 85(10):103908, October 2014.

[9] E. Herbert, P.-P. Cortet, F. Daviaud, and B. Dubrulle. Eckhaus-like instability of large scale coherent structures in a fully turbulent von Kármán flow. *Physics of Fluids*, 26(1):015103, January 2014.

[10] Davide Faranda, Flavio Maria Emanuele Pons, Bérengère Dubrulle, François Daviaud, Brice Saint-Michel, Éric Herbert, and Pierre-Philippe Cortet. Modelling and analysis of turbulent datasets using Auto Regressive Moving Average processes. *Physics of Fluids*, 26(10):105101, October 2014.

[11] B. Saint-Michel, E. Herbert, J. Salort, C. Baudet, M. Bon Mardion, P. Bonnay, M. Bourgoin, B. Castaing, L. Chevillard, F. Daviaud, P. Diribarne, B. Dubrulle, Y. Gagne, M. Gibert, A. Girard, B. Hébral, Th. Lehner, and B. Rousset. Probing quantum and classical turbulence analogy in von Kármán liquid helium, nitrogen, and water experiments. *Physics of Fluids*, 26(12):125109, December 2014.

[12] Superfluid high REynolds von Kármán experiment: Review of Scientific Instruments: Vol 85, No 10, 2014.

[13] E. Herbert, F. Daviaud, B. Dubrulle, S. Nazarenko, and A. Naso. Dual non-Kolmogorov cascades in a von Kármán flow. *EPL (Europhysics Letters)*, 100(4):44003, November 2012.

[14] Arnaud Arvengas, Eric Herbert, Sophie Cersoy, Kristina Davitt, and Frédéric Caupin. Cavitation in Heavy Water and Other Liquids. *The Journal of Physical Chemistry B*, 115(48):14240–14245, December 2011.

[15] P.-P. Cortet, E. Herbert, A. Chiffaudel, F. Daviaud, B. Dubrulle, and V. Padilla. Susceptibility divergence, phase transition and multistability of a highly turbulent closed flow. *Journal of Statistical Mechanics: Theory and Experiment*, 2011(07):P07012, July 2011.

[16] Eric Herbert, Nicolas Mordant, and Eric Falcon. Observation of the Nonlinear Dispersion Relation and Spatial Statistics of Wave Turbulence on the Surface of a Fluid. *Physical Review Letters*, 105(14):144502, September 2010.

[17] Eric Herbert, Mathieu Pernot, Gabriel Montaldo, Mathias Fink, and Mickael Tanter. Energy-based adaptive focusing of waves: application to noninvasive aberration correction of ultrasonic wavefields. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, 56(11):2388–2399, November 2009.

[18] Frédéric Caupin, Eric Herbert, Sébastien Balibar, and Milton W. Cole. Comment on 'Nanoscale water capillary bridges under deeply negative pressure' [Chem. Phys. Lett. 451 (2008) 88]. *Chemical Physics Letters*, 463(1):283–285, September 2008.

[19] Hervé Cochard, Têtè Barigah, Eric Herbert, and Frédéric Caupin. Cavitation in plants at low temperature: is sap transport limited by the tensile strength of water as expected from Briggs' Z-tube experiment? *New Phytologist*, 173(3):571–575, 2007.

[20] Eric Herbert, Sébastien Balibar, and Frédéric Caupin. Cavitation pressure in water. *Physical Review E*, 74(4):041603, October 2006.

[21] Frédéric Caupin and Eric Herbert. Cavitation in water: a review. *Comptes Rendus Physique*, 7(9):1000–1017, November 2006.