

Contents

Theme issue: Toward the development of high-fidelity models of wall turbulence at large Reynolds number

	Article ID		Article ID
INTRODUCTION			
Prospectus: towards the development of high-fidelity models of wall turbulence at large Reynolds number JC Klewicki, GP Chini and JF Gibson	20160092	Statistical evidence of an asymptotic geometric structure to the momentum transporting motions in turbulent boundary layers C Morrill-Winter, J Philip and J Klewicki	20160084
ARTICLES			
Reynolds stress scaling in pipe flow turbulence—first results from CICLoPE R Örlü, T Fiorini, A Segalini, G Bellani, A Talamelli and PH Alfredsson	20160187	Scaling and interaction of self-similar modes in models of high Reynolds number wall turbulence AS Sharma, R Moarref and BJ McKeon	20160089
Modelling high Reynolds number wall–turbulence interactions in laboratory experiments using large-scale free-stream turbulence E Dogan, RJ Hearst and B Ganapathisubramani	20160091	A statistical state dynamics approach to wall turbulence BF Farrell, DF Gayme and PJ Ioannou	20160081
Structure identification in pipe flow using proper orthogonal decomposition LHO Hellström and AJ Smits	20160086	Self-sustaining processes at all scales in wall-bounded turbulent shear flows C Cossu and Y Hwang	20160088
Heat transport in Rayleigh–Bénard convection and angular momentum transport in Taylor–Couette flow: a comparative study HJ Brauckmann, B Eckhardt and J Schumacher	20160079	Low-dimensional representation of near-wall dynamics in shear flows, with implications to wall-models PJ Schmid and T Sayadi	20160082
Reynolds number trend of hierarchies and scale interactions in turbulent boundary layers WJ Baars, N Hutchins and I Marusic	20160077	The relationship between free-stream coherent structures and near-wall streaks at high Reynolds numbers K Deguchi and P Hall	20160078
Phase relations in a forced turbulent boundary layer: implications for modelling of high Reynolds number wall turbulence S Duvvuri and B McKeon	20160080	A self-sustaining process model of inertial layer dynamics in high Reynolds number turbulent wall flows GP Chini, B Montemuro, CM White and J Klewicki	20160090