

BIFD-2013, Technion, Haifa, July 8-11, 2013

Sunday, July 7

18:00 – 20:30 Registration and reception

Monday, July 8

8:30 – 9:30	Registration and coffee			
9:00 – 9:30	<i>Chair:</i> A. Oron Opening session			
9:40 – 10:30	<i>Chair:</i> P. Bar-Yoseph Plenary lecture: Surface tension driven instabilities and bifurcations <u>Gustav Amberg</u> , KTH Stockholm, Sweden			
10:30 – 11:00	Coffee break			
Sessions	M1 Convection (Chair: H. Kuhlmann)	M2 Films and drops (Chair: A. Oron)	M3 Localized States in Fluids (Chair: I. Mercader)	M4 Shear flows (Chair: D. Barkley)
11:00 – 11:20	<u>L. Oteski</u> , Y. Duguet, L. Pastur, P. le Quéré, <i>Bifurcations, synchronizations and chaos inside a two-dimensional differentially heated cavity</i>	J. M. Perez-Gracia, J. Porter, <u>F. Varas</u> , J. M. Vega, <i>Oblique cross-waves in horizontally vibrated containers</i>	<u>M. Withalm</u> , N.P. Hoffmann, <i>Weakly localized solutions in a three dimensional boundary layer</i>	<u>V. Parezanovic</u> , J.-C. Laurentie, C. Fourment, J. Delville , L. Cordier, B. Noack, <i>Experimental study of open- and closed-loop control of a turbulent mixing layer</i>
11:20 – 11:40	I. A. Babushkin, <u>V. A. Demin</u> , <i>Convection, thermocouple measurements and applications</i>	<u>M. Bestehorn</u> , A. Oron, <i>Thin film behavior under external vibrations</i>	<u>I. Mercader</u> , O. Batiste, A. Alonso, E. Knobloch, <i>Drifting convectons in binary mixtures</i>	<u>M. F. de Medeiros</u> , <i>The effect of phase and modulation on nonlinear TS wavepackets</i>
11:40 – 12:00	<u>S. Stefanov</u> , M. Vargas, <i>Thermal gas flow instability in micro scale enclosures</i>	<u>O. Haimovich</u> , A. Oron, <i>Nonlinear dynamics of large-amplitude drops on an axially oscillating cylindrical surface</i>	A. V. Taraut, <u>B. L. Smorodin</u> , M. Lucke, <i>Convection in binary liquid mixtures: collisions of localized structures</i>	<u>M. Brøns</u> , <i>The topology of boundary layer eruption</i>
12:00 – 12:20	<u>A.G. Abramov</u> , E.M. Smirnov, V.D. Goryachev, <i>Vortex structures in transitional free-convection boundary layer: numerical simulation results</i>	M. Binz, <u>W. Rohlf</u> s, R. Kneer, <i>Direct Numerical simulation of the Plateau-Rayleigh instability developing on an oscillating cylinder covered by a thin liquid film</i>	<u>F. Feudel</u> , N. Seehafer, L.S. Tuckerman, <i>Multistability in radially forced rotating spherical shell convection</i>	K. Kostarev, A. Mizev, <u>E. Mosheva</u> , <i>Instability of mixing zone formed at the boundary between the counter flows of two miscible liquids</i>
12:20 – 12:40	J. Curbelo, <u>A.M. Mancho</u> , <i>Bifurcations and dynamics in a convection problem with temperature-dependent viscosity with O(2) symmetry</i>	<u>A.A. Alabuzhev</u> , S. Shklyayev, M. Khenner, <i>Averaged description of Marangoni convection in a vertically vibrating liquid layer</i>	<u>S. Zammert</u> , B. Eckhardt, <i>Localized periodic orbits in plane Poiseuille flow</i>	A. Alexeev, Z. G. Mills, T. Shah, <i>Flow instability in pressure-driven flow through wavy channels</i>

Monday, July 8

12:40 – 14:00	Lunch			
Sessions	M5 Convection (Chair: L. Tuckerman)	M6 Films and drops (Chair: J. Vega)	M7 Instabilities in biofluid flows (Chair: P. Bar-Yoseph)	M8 MHD instabilities (Chair: O. Zikanov)
14:00 – 14:20	<u>A. Gelfgat</u> , <i>Oscillatory instability of natural convection of air in a laterally heated cubic box</i>	<u>A.B. Mikishev</u> , <u>A. Nepomnyashchy</u> , <i>The influence of heating conditions on the instabilities in an evaporating liquid layer with insoluble surfactant</i>	<u>P. Hofemeier</u> , <u>J. Sznitman</u> , <i>The role of respiratory flow asynchrony on convective mixing in the pulmonary acinus</i>	<u>N. Weber</u> , <u>V. Galindo</u> , <u>M. Seilmayer</u> , <u>F. Stefani</u> , <u>T. Weier</u> , <i>Simulation of the Taylor instability in liquid metals</i>
14:20 – 14:40	<u>J. F. Torres</u> , <u>D. Henry</u> , <u>A. Komiya</u> , <u>S. Maruyama</u> , <i>Bifurcations in natural convection inside a tilted cubic cavity</i>	<u>S. Shklyaev</u> , and <u>A. A. Nepomnyashchy</u> , <i>Steady longwave Marangoni convection in a layer of a binary liquid heated from above</i>	<u>M. Centeno</u> , <u>B. Thiria</u> , <u>R. Godoy-Diana</u> , <i>Bio-inspired flapping wings: forewing-hindwing phase-lag effect</i>	<u>T. Vogt</u> , <u>I. Grants</u> , <u>D. Rübiger</u> , <u>S. Eckert</u> , <u>G. Gerbeth</u> , <i>Transient Taylor-Görtler vortex flow in a spinning liquid metal</i>
14:40 – 15:00	<u>A. Teymurazov</u> , <u>A. Vasiliev</u> , <u>P. Frick</u> , <i>Experimental and numerical study of turbulent convection in bounded vertical layers</i>	<u>I. S. Fayzrakhmanova</u> , <u>S. Shklyaev</u> , <u>A. Nepomnyashchy</u> , <i>Longwave convection in a binary liquid layer with modulated heat flux at the bottom</i>	<u>V. Batishev</u> , <i>The modelling of the helical blood flows in aorta</i>	<u>A. Kapusta</u> , <u>B. Mikhailovich</u> , <i>Magnetic field and turbulence impact on the flow stability in a rotating magnetic field</i>
15:00 – 15:20	<u>O. N. Goncharova</u> , <u>E. V. Rezanova</u> , <i>Modeling of the convective fluid flows in the two layer systems with evaporation at interface on the basis of the exact solutions</i>	<u>M. Morozov</u> , <u>A. Oron</u> , <u>A. Nepomnyashchy</u> , <i>Nonlinear dynamics of long-wave Marangoni convection in a 2D layer of binary liquid</i>	<u>Y. T. Delorme</u> , <u>A.-E. M. Kerlo</u> , <u>K. Anupindi</u> , <u>J. Chen</u> , <u>S. H. Frankel</u> , <u>M. D. Rodefeld</u> , <i>Dynamic mode decomposition of fontan hemodynamics in an idealized total cavopulmonary connection</i>	<u>I. Belyaev</u> , <u>L. Genin</u> , <u>I. Melnikov</u> , <u>V. Sviridov</u> , <u>E. Sviridov</u> , <u>Yu. Ivochkin</u> , <u>N. Razuvanov</u> , <i>Experimental investigation of liquid metal heat transfer specific applied to TOKAMAK reactor cooling</i>
15:20 – 15:40	<u>D. Kuznetsova</u> , <u>I. Sibgatullin</u> , <i>Bifurcations in penetrative convection in plane layer</i>	<u>M. Higuera</u> , <u>J. Perales</u> , <u>J. Vega</u> , <i>Long wave theory for experimental devices with compressed/expanded surfactant monolayers</i>	<u>E. Khain</u> , <u>M. Katakowski</u> , <u>N. Charteris</u> , <u>F. Jiang</u> , <u>M. Chopp</u> , <i>Migration of adhesive glioma cells: front propagation and fingering</i>	<u>A. Kharicha</u> , <u>I. Teplyakov</u> , <u>Yu. Ivochkin</u> , <u>M. Wu</u> , <u>A. Ludwig</u> , <u>A. Guseva</u> , <i>Free surface deformation in electrically driven flow</i>
15:40 – 16:00		<u>L.E. Johns</u> , <u>R. Narayanan</u> , <i>The nature of branching in miscible displacement</i>		<u>Y. Tasaka</u> , <u>K. Igaki</u> , <u>T. Yanagisawa</u> , <u>S. Eckert</u> , <u>T. Vogt</u> , <i>Regularization of flow reversals in a MHD Rayleigh-Bénard convection</i>

Monday, July 8

16:00 – 16:30	Coffee break			
Sessions	M9 Convection (Chair: R. Narayanan)	M10 Shear flows (Chair: J. Cohen)	M11 Instabilities in astrophysics (Chair: M. Mond)	M12 Fluid –structure interaction (Chair: O. Gottlieb)
16:30 – 16:50	<u>A. Alonso</u> , I. Mercader, O. Batiste, <i>Pattern selection near the onset in cylindrical binary mixture convection</i>	C. Galletti, E. Brunazzi, <u>R. Mauri</u> , <i>Symmetry breaking and time-periodic flow structures in T-shaped micromixers</i>	<p style="text-align: center;">Keynote lecture:</p> <u>F. Rincon</u> , <i>From pipe flow to astrophysical magnetic fields: subcritical dynamo transitions and self-sustaining nonlinear magnetohydrodynamic processes</i>	<u>D. Crowdy</u> , <i>Global bifurcations for low-Reynolds-number swimming in confined geometries</i>
16:50 – 17:10	<u>H. Herrero</u> , M.C. Navarro, <i>Top-down vortices developed in a cylindrical annulus cooled on the top</i>	<u>J. R. Picardo</u> , D. S. Pillai and S. Pushpavanam, <i>Stability of disfigured liquid jets: effect of interfacial geometry</i>		<u>A. Boymelgreen</u> , G.Yossifon, <i>Electrokinetic phenomena and hydrodynamics around a bubble in a microchannel</i>
17:10 – 17:30	<u>V. Prusa</u> , <i>On models for fluid-like materials that are mechanically incompressible and thermally compressible or expansible and their Oberbeck–Boussinesq type approximations</i>	<u>L. Biancofiore</u> , F. Gallairey, P. Laurez, E. Hachem, <i>Interaction between counter-propagating Rossby and capillarity waves in planar jets and wakes</i>	<u>U. Griv</u> , H.-H. Wang, <i>Numerical exploration of density waves formation in rapidly and differentially rotating spiral galaxies</i>	<u>D.E. Raveh</u> and E.H. Dowell, <i>Aeroelastic Limit cycle oscillations in transonic buffeting flows</i>
17:30 – 17:50	<u>A. Sukhanovsky</u> , A. Evgrafova, E. Popova, <i>Secondary flow dynamics in a temperature boundary layer in a cylindrical tank</i>	<u>A. M. Mathai</u> , S. Pushpavanam, <i>Patterns in the breakup of slender compound jets in the presence of gravity-inviscid and viscid studies</i>	<u>M. Gellert</u> , G. Rüdiger, <i>Magnetic pinch-type instability and alpha-effect in a liquid metal container</i>	A. Katz, <u>R. van Hout</u> , D. Greenblatt, <i>VIV of a tethered sphere in a steady flow: Near-wake flow and effect of active flow</i>
17:50 – 18:10		<u>J.R. Picardo</u> , S. Pushpavanam, <i>On the stability of two phase Poiseuille flow between coaxial cylinders</i>	<u>U. Keshet</u> , <i>Spiral flow instability in galaxy clusters</i>	<u>A. Postnikov</u> , E. Pavlovskaja, M. Wiercigroch, <i>Calibration of the wake oscillator model using CFD</i>
18:10 – 18:30			<u>E. Liverts</u> , Y. Shtemler, M. Mond, <i>Nonlinear interaction of the Alfvén-Coriolis waves with magneto-acoustic modes in thin rotating discs</i>	

Tuesday, July 9

9:00 – 9:50	<p>Chair: Gustav Amberg <i>Plenary lecture: Transient states in the transition to turbulence in channels</i></p> <p><u>Jose Eduardo Wesfreid</u>, PMMH, ESPCI, Paris, France</p>			
9:50 – 10:20	<p>Coffee break</p>			
Sessions	<p>T1 Instabilities in Astrophysics (Chair: W. Kluźniak)</p>	<p>T2 Films and drops (Chair: M. Bestehorn)</p>	<p>T3 Subcritical transitions in shear flows (Chair: A. Bottaro)</p>	<p>T4 Fluid –structure interaction (Chair: H. Benaroya)</p>
10:20 – 10:40	<p>Keynote lecture: <u>R. Arlt</u>, <i>Magnetic instabilities in stars</i></p>	<p><u>K. Kanatani</u>, <i>Effect of convection of the vapor on the Marangoni instability in evaporating liquid films</i></p>	<p><u>Y. Duguet</u>, A. Monokrousos, L. Brandt, D. S. Henningson, <i>Minimal transition thresholds in plane Couette flow</i></p>	<p><u>Y. Green</u>, G. Yossifon, <i>Dynamics of colloids and hydrodynamic vortices due to competition between various electrokinetic modes</i></p>
10:40 – 11:00		<p>E. Benilov, <u>C. Cummins</u>, <i>Stability of a static liquid column pulled out of an infinite pool</i></p>	<p><u>D. Barkley</u>, M. Avila, B. Hof, <i>The speed of turbulent-laminar fronts in pipe flow</i></p>	<p><u>Y. Liu</u>, <i>Instability in axial-flow-induced vibrations of cylindrical clusters</i></p>
11:00 – 11:20	<p><u>O.M. Umurhan</u>, R. Yellin-Bergovoy, E. Heifetz, <i>Shear instabilities in self-gravitating models of accretion disks: a kernel gravity wave interpretation</i></p>	<p>S. Veremieiev, <u>P.H. Gaskell</u>, <i>The stability of and eddy genesis within a heated film flowing under gravity on an inclined substrate exhibiting a sinusoidal variation</i></p>	<p><u>M. Karp</u>, J. Cohen, <i>On transition via transient growth in Couette flow</i></p>	<p><u>A. Kleiman</u>, O. Gottlieb, <i>The onset of flutter and self-excited oscillations of a viscoelastic slender body immersed in a uniform fluid flow</i></p>
11:20 – 11:40	<p><u>P.L. Sulem</u>, T. Passot, D. Laveder, <i>Viscous instabilities and intermittent dissipation of Alfvénic intermediate shocks and solitons: a possible contribution to coronal heating</i></p>	<p><u>R. Borcia</u>, M. Bestehorn, C. Egbers, <i>Partial coalescence of sessile liquid droplets</i></p>	<p><u>O. Semeraro</u>, F. Giannetti, L. Brandt, <i>Sensitivity analysis of the periodic orbits of plane Couette flow</i></p>	<p><u>O. Shoshani</u>, O. Gottlieb, <i>Nonlinear stability of a perturbed Orr-Sommerfeld solution for the wake of stationary and moving cylinders at low Reynolds numbers</i></p>
11:40 – 12:00	<p><u>M. Gedalin</u>, <i>Shock structure and ion gyration</i></p>	<p><u>S. Duruk</u>, A. Oron, <i>Rayleigh-Taylor instability of a liquid film on a solid corrugated surface subjected to tangential oscillation</i></p>	<p><u>V. Bekezhanova</u>, <i>On the instability of convective flow in cylinder and possible secondary regimes</i></p>	<p><u>M. Heil</u>, D. Pihler-Puzovic, R. Perillat, A. Juel, <i>The effect of fluid-structure interaction on the viscous fingering instability in an elastic-walled Hele-Shaw cell</i></p>
12:00 – 12:20		<p><u>M. Nagel</u>, F. Gallaire, <i>Investigation of droplet shedding in flow focusing geometries using the boundary element method</i></p>	<p>J.A. Martín, <u>C. Martel</u>, <i>Downstream development of fully nonlinear intrinsic streaks in the at plate boundary layer</i></p>	<p><u>Z. Aginsky</u>, O. Gottlieb, <i>Nonlinear fluid-structure interaction of viscoelastic panels in an acoustically excited inviscid compressible fluid</i></p>

Tuesday, July 9

12:40 – 14:00	Lunch			
Sessions	T5 Technological applications and rotating flows (Chair: A. Gelfgat)	T6 Films and drops (Chair: P. H. Gaskell)	T7 Micro- and nano- systems (Chair: S. Pushpavanam)	T8 Fluid –structure interaction (Chair: D. Crowdy)
14:00 – 14:20	<u>A. Yeckel</u> , P. Daggolu, J.J. Derby, <i>Instabilities during meniscus-defined crystal growth</i>	J.P. Pascal, N. Gonputh, <u>S.J.D. D’Alessio</u> , <i>Long-wave instability of flow with temperature dependent fluid properties down a heated incline</i>	<u>A. Lytra</u> , N. Pelekasis, <i>Static response and stability of coated microbubbles as a means of parameter estimation</i>	<u>A. Manela</u> , L. Huang, <i>Sound generated by a wing with a flap interacting with an eddy</i>
14:20 – 14:40	<u>E. Miroshnichenko</u> , V. Haslavsky, E. Kit, A. Gelfgat, <i>Scaling laws for instabilities in Czochralski crystal growth configuration at large Prandtl numbers</i>	<u>N. Kofman</u> , S. Mergui, C. Ruyer-Quil, <i>Three-dimensional instabilities of solitary waves in a falling liquid film</i>	<u>K. Efthymiou</u> , N. Pelekasis, <i>Acoustic interaction between a coated microbubble and a nearby surface – Steady pulsations vs. transient break-up</i>	E. Passov and <u>Y. Or</u> , <i>Dynamics of Purcell’s three-link microswimmer with a passive elastic tail</i>
14:40 – 15:00	<u>A. Saurabh</u> , C.O. Paschereit, <i>Transverse acoustic forcing effects on an annular swirling jet</i>	E. Benilov, <u>C. Cummins</u> , <i>Drops climbing on vibrating, inclined substrate</i>	<u>D. S. Pillai</u> , S. Pushpavanam, <i>On the buckling instability of liquid threads in a divergent microchannel</i>	<u>Y. Or</u> , <i>Vortex re-connections in quantum fields</i>
15:00 – 15:20	J. Bohacek, <u>A. Kharicha</u> , A. Ludwig M. Wu, <i>A shallow layer model to study the wave instabilities of a thin liquid layer inside a rotating cylinder</i>	W. Mao, A. Alexeev, <u>A. Oron</u> , <i>Fluid transport in thin liquid films using traveling thermal waves</i>	<u>J. Schiffbauer</u> , N. Leibowitz, U. Liel, S. Park, G. Yossifon, <i>Transient electrical response at the microchannel-nanochannel interface near the overlimiting transition</i>	<u>V.L. Okulov</u> , D. Kulikov, I. Naumov, R. Mikkelsen, J.N. Sørensen, <i>PIV-visualization of bubble structures in a tall cylinder driven by a rotating endwall</i>
15:20 – 15:40		<u>I. Wertgeim</u> , A. Mikishev, <i>Bifurcation analysis in low-frequency and high-frequency models of Marangoni convection with periodically modulated localized heating</i>	J. Schiffbauer, N. Leibowitz, U.Liel, S. Park, <u>G. Yossifon</u> , <i>Geometric modulation of electrokinetic instability in micro-nanochannel interface devices</i>	E. Domany, <u>O. Gendelman</u> , <i>Targeted energy transfer in fluttering systems</i>

Tuesday, July 9

15:40 – 16:10		Coffee break			
Sessions	T9 Geophysical flows (Chair: V. Zeitlin)	T10 Instabilities in astrophysics (Chair: P.L. Sulem)	T11 Subcritical transitions in shear flows (Chair: Y. Duguet)	T12 Fluid –structure interaction (Chair: M. Heil)	
16:10 – 16:30	<u>Y. Amitai</u> , Y. Ashkenazy, H. Gildor, <i>Mediterranean deep water formation bi-stability</i>	Keynote lecture: <u>R.V.E. Lovelace</u> , M.M. Romanova, <i>First global 3D simulations of waves in accretion discs and new results on Rossby waves in discs</i>	<u>M. Nagata</u> , <i>Bifurcations from double-layered streamwise-independent vortex flow in rotating plane Couette flow</i>	<u>H. Benaroya</u> , S. Mottaghi, <i>Reduced-order modeling of vortex-induced oscillations</i>	
16:30 – 16:50	<u>H. Dijkstra</u> , F. Wubs, <i>Bifurcation analysis of global ocean-climate models</i>		<u>S. Cherubini</u> , P. De Palma, <i>Minimal perturbations targeting the edge in a Couette flow</i>	<u>P. Zhang</u> , H. L. Cao, Y. Zhou, <i>Closed-loop control of a turbulent jet based on fluidic means</i>	
16:50 – 17:10	<u>A. Kharicha</u> , M.Stefan-Kharicha, A. Ludwig, M. Wu, <i>A meandering sinking flow as possible explanation for the thermohaline staircases in oceans</i>	<u>W. Kluźniak</u> , <i>Period doubling, high frequency QPOs, and instabilities in black hole accretion disks</i>	H. Wedin, G. Zampogna, <u>A. Bottaro</u> , <i>Three-dimensional vortex structures in the Blasius boundary layer flow</i>	<u>A. Gat</u> , M. Gharib, <i>Elasto-capillary instability and coalescence of multiple parallel sheets</i>	
17:10 – 17:30	<u>F. Guéniat</u> , L. Pastury, F. Lusseyran, <i>GPU and SIMD acceleration for Identification of Lagrangian coherent structures. Application to an open cavity flow</i>	M. Gedalin, <u>E. Golbraich</u> , M. Balikhin, T. Zhang, <i>Large amplitude nonlinear waves in Venus magnetosheath</i>	<u>H. Vitoshkin</u> , A. Gelfgat, <i>Transient growth of 3D perturbations in a stratified mixing layer flow</i>	<u>I. Procaccia</u> , <i>Vortex re-connections in quantum fields</i>	
17:30 – 18:30	Lecture on Jerusalem history				

Wednesday, July 10: *Day tour to Jerusalem and Caesarea*

Thursday, July 11

9:00 – 9:50	<p>Chair: <u>Jose Eduardo Wesfreid</u> <i>Plenary lecture: Transitions between various flow states in thermocapillary liquid bridges and the Bénard-Marangoni experiment</i></p> <p><u>Dietrich Schwabe</u>, University of Giessen, Germany</p>			
9:50 – 10:20	<p>Coffee break</p>			
Sessions	Th1 MHD instabilities (Chair: S. Eckert)	Th2 Geophysical flows (Chair: N. Harnik)	Th3 Computational methods (Chair: F. Wubs)	Th4 Miscellaneous topics (Chair: M. Brøns)
10:20 – 10:40	<u>Ya. Listratov</u> , <u>D.Ognerubov</u> , <u>O. Zikanov</u> , <u>V. Sviridov</u> , <i>Temperature fluctuations as a result of mixed convection in a liquid metal flow with imposed transverse magnetic field</i>	<u>I. D. Borgia</u> , <u>T. Seelig</u> , <u>A. Ghasemi</u> , <u>M. Klein</u> , <u>A. Will</u> , <u>C. Egbers</u> , <u>E. Schaller</u> , <u>U. Harlander</u> , <i>Inertial wave modes excitation inside a container with cylindrical geometry</i>	<u>N. Périnet</u> , <u>D. Juric</u> , <u>L. Tuckerman</u> , <i>Exotic behavior of hexagonal Faraday waves</i>	<u>L. Shapakidze</u> , <i>On oscillatory modes in flow between two porous cylinders with axial and radial flows</i>
10:40 – 11:00	<u>A.F. Zibold</u> , <i>Hydrodynamic structures generated by the rotating magnetic field in cylindrical vessel</i>	<u>Y. Cohen</u> , <u>N. Paldor</u> , <i>The linear instability of barotropic shallow-water eddies in gradient balance for various basic states</i>	<u>S. Abelman</u> , <i>Reduction and solution for unsteady flow of a sisko fluid for cylindrical geometry revisited</i>	<u>A.I. Mizev</u> , <u>A.I. Trofimenko</u> , <u>A. Viviani</u> , <i>Impact on the stability of divergent capillary flow</i>
11:00 – 11:20	<u>O. Zikanov</u> , <u>D. Krasnov</u> , <u>T. Boeck</u> , <i>Patterned turbulence in transitional MHD flows in pipes and ducts</i>	<u>B. Ribstein</u> , <u>R. Plougonven</u> and <u>V. Zeitlin</u> , <i>Inertial vs barotropic and baroclinic instabilities of the Bickley jet: continuous stratification</i>	<u>F. Guéniat</u> , <u>L. Pastury</u> , <u>Y. Fraigneau</u> , <u>F. Lusseyran</u> , <i>Shear layer modes competition in open cavity flow: experimental and numerical exploration of 3D features through a 3D DMD analysis</i>	<u>H.C. Kuhlmann</u> , <u>R. Mukin</u> , <i>Flow topology of a hydrothermal wave</i>
11:20 – 11:40	<u>P. Oborin</u> , <u>S. Khripchenko</u> , <u>E. Golbraikh</u> , <i>The use of the traveling magnetic field generated by a modulated current for the liquid metal stirring</i>	<u>Z. Kizner</u> , <i>Stability of point-vortex multipoles</i>		<u>J. Oprea</u> , <u>G. Dangelmayr</u> , <u>J. Gleeson</u> , <u>G. Acharya</u> , <i>Steady state–Hopf mode interactions at the onset of nematic electroconvection</i>

Thursday, July 11

11:40 – 12:00					Introductory talk for BIFD – 2015					
Sessions					Th5 Computational methods (Chair: H. Dijkstra)		Th6 Geophysical flows (Chair: O.M. Umurhan)		Th7 Miscellaneous topics (Chair: A. Alexeev)	
12:00 – 12:20					S. Albensoder, <u>H. Kuhlmann</u> , <i>Primary instability of the lid-driven flow in a cube: a Chebyshev-collocation method with reduced edge singularity</i>		<u>J. Schröttle</u> , A. Dörnbrack, U. Schumann, <i>Meandering of a vortex line in shear flow</i>		S. Ramananarivo, <u>B. Thiria</u> , R. Godoy-Diana, <i>Dynamics of an elastic filament undulating at a free surface</i>	
12:20 – 12:40					J.Thies, <u>F. Wubs</u> , W. Song, <i>Evaluation of HYMLS, LOCA and ANASAZI for bifurcation analysis of flow in a 3D lid driven cube</i>		<u>N. Harnik</u> , D. Dritschel, E. Heifetz, <i>On jet sharpening and the equilibration of meridional-asymmetric barotropic instability</i>		<u>I.A. Mackarov</u> , <i>Numerical observation of large-scale instabilities in counter flows of viscoelastic fluid</i>	
12:40 – 13:00					<u>F. Terragni</u> , and J. M. Vega, <i>Efficient computation of bifurcation diagrams via adaptive ROMs</i>		<u>T. Tamarin</u> , J. Maddison, L.Zanna, D. Marshall, <i>Eddy mean flow interaction in idealized flows using a geometric framework to parameterize eddy fluxes</i>		<u>T. Albrecht</u> , T. Gundrum, F. Stefani, Experimental and numerical study of flow in a precessing cylinder	
13:00 – 13:20							<u>O. Lachmy</u> , N. Harnik, <i>Flow regimes of the upper tropospheric jet stream</i>			
13:20 – 15:00					Lunch					
15:00 – 15:30					Closure session					