



MATRIX PROGRAM: CONSERVATION LAWS, INTERFACES, and MIXING

	04 100 2019, Monday	
	Breakfast	08.00-9.00
Program Organizers	Welcome	09.00-9.15
Nepomnyashchy A	Excitation and control of interfacial instabilities	09.15-10.00
Klewicki J	Structure of passive scalar transport in turbulent channel flow	10.00-10.45
	Morning Break	10.45-11.15
Roberts A	Rigorous modeling determines both a macro-scale model and its boundary conditions	11.15-12.00
	Lunch	12.00-13.30
Program Participants	Collaboration	13.30-15.00
	Afternoon break	15.00-15.30
Program Participants	Collaboration	15.30-17.00
-	Dinner	19.00-20.00

04 Nov 2019, Monday

05 Nov 2019, Tuesday		
	Breakfast	08.00-9.00
Li X	Lagrangian front tracking and applications to conservation	09.00-9.45
	law, fluid mixing, and phase transition problems	
Abarzhi SI	Interface dynamics: New mechanisms of stabilization and	09.45-10.30
	destabilization and structure of flow fields	
	Morning Break	10.30-11.00
Hutchinson A	Application of a modified Prandtl mixing length model to the	11.00-11.30
	turbulent classical far wake with a variable mainstream flow	
Nepomnyashchy A	Longwave oscillatory instabilities	11.30-12.00
	Lunch	12.00-13.30
Program Participants	Collaboration	13.30-15.00
	Afternoon break	15.00-15.30
Program Participants	Poster Session	15.30-17.00
	MATRIX chees and wine	17.00
	Dinner	19.00-20.00

06 Nov 2019, Wednesday

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	Breakfast	08.00-9.00
Tanveer S	Analysis of Two fluid Couette Flows	09.00-9.45
Klimenko A	Entropy, mixing and the direction of time	09.45-10.30
	Morning Break	10.30-11.00
Li X	Modeling of fabric surface through front tracking with	11.00-11.30
	application to parachute inflation	
Klimenko A	Thermodynamics and kinetics of anti-symmetric extension of	11.30-12.00
	the second law to antimatter	
	Lunch	12.00-13.30
Program Participants	Collaboration	13.30-15.00
	Afternoon break	15.00-15.30

MATRIX Program Conservation Laws, Interfaces, and Mixing Creswick, 04-08 November 2019 Tel: +61-3-8344-4750; Email: office@matrix-inst.org.au URL: https://www.matrix-inst.org.au/events/conservation-laws-interfaces-and-mixing/; http://www.ictp.it/~tmb





Program Participants	Collaboration	15.30-17.00
	Dinner	19.00-20.00

07 Nov 2019, Thursday

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	Breakfast	08.00-9.00
Fukumoto Y	Effect of compressibility in the reaction zone of a premixed	09.00-9.45
	flame and its implication to the Darrieus-Landau instability	
Abarzhi SI	High energy density plasmas, fluid instabilities and	09.45-10.30
	interfacial mixing	
	Morning Break	10.30-11.00
Hutchinson A	Comparison of algebraic closure models applied to the two-	11.00-11.45
	dimensional turbulent classical far wake	
Williams K	Singular behaviors and new morphologies in Rayleigh Taylor	11.45-12.15
	instability	
	Lunch	12.00-13.30
Program Participants	Collaboration	13.30-15.00
	Afternoon break	15.00-15.30
Program Participants	Collaboration	15.30-17.00
	Dinner	19.00-20.00

08 Nov 2019, Friday

	Breakfast	08.00-9.00
Program Participants	Collaboration	09.00-10.30
	Morning Break	10.30-11.00
Khan A	Determination of a transient shape of a sludge blanket in an	11.00-11.30
	anaerobic lagoon	
Program Organizers	Final Report	11.30-12.00
	Lunch	12.00-13.30
Program Participants	Departure	13.30-17.00