



2016-17 Warwick EPSRC Symposium Geometric PDEs

12-16 December 2016

Organisers: P. Topping (Warwick), A. Neves (Imperial), N. Wickramasekera (Cambridge), M. Dafermos (Cambridge), C. Warnick (Imperial)

PROGRAMME

All lectures will take place in Room MS.03, Zeeman Building

Monday 12th

wonday i	Ztn	
10:15-11:0	O Coffee in the Mathematics Common Ro	om, and registration in Room B1.37
11:00-11:5	O Guido De Philippis (SISSA)	Allard's rectifiability theorem for
		anisotropic energies
12:00-14:0	0 Lunch in the Mathematics Common Roo	om
14:00-14:5	O Andrea Mondino (Warwick)	Isoperimetric inequalities in non-smooth
		spaces with Ricci curvature bounded below
14:50-15:3	O Coffee in the Mathematics Common Ro	om
15:30-16:2	O Grigorios Fournodavlos (Cambridge)	Dynamics of the Einstein equations near a
		Schwarzschild singularity
16:30-17:2	O Dejan Gajic (Imperial)	Late-time tails for the wave equation on
		stationary, asymptotically flat spacetimes
17:30	Wine and dinner in the Mathematics Co	mmon Room

Tuesday 13th

idesday 15th	
09:00-09:50 Felix Schulze (UCL)	Ricci flow from spaces with isolated conical
	singularities
10:00-10:50 Ben Sharp (Warwick)	Minimal hypersurfaces with bounded index
10:50-11:30 Coffee in the Mathematics Common	Room
11:30-12:20 Pieter Blue (Edinburgh)	Hidden symmetries and decay of fields
	outside black holes
12:20-14:00 Lunch in the Mathematics Common	Room
14:00-14:50 Gustav Holzegel (Imperial)	Linear stability of the Schwarzschild
	Solution
14:50-15:30 Coffee in the Mathematics Common	Room
15:30-16:20 Lucas Ambrozio (Imperial)	Some new results for free boundary minimal
·	hypersurfaces
16:30-17:20 Paul Bryan (Warwick)	Harnack inequalities and ancient solutions
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For further information on events at the Mathematics Institute, see: go.warwick.ac.uk/mathsevents

or contact: Mathematics Research Centre, Zeeman Building, University of Warwick, Coventry CV4 7AL, UK

of hypersurface flows

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11:30-12:20 Melanie Rupflin (Oxford)

Workshop close

14:00

12:20-14:00 Lunch in the Mathematics Common Room



Fine properties of degenerating hyperbolic

surfaces and applications

PROGRAMME continued

All lectures will take place in Room MS.03, Zeeman Building		
Wednesday 14th		
09:00-09:50 Daniele Valtorta (Uni Zuerich)	Sharp estimates for the singular sets of harmonic maps	
10:00-10:50 Alessandro Carlotto (ETH Zuerich)	Min-max embedded geodesic lines and a	
10.50 11.30 Caffee in the Mathematics Common De	question of Bangert	
10:50-11:30 Coffee in the Mathematics Common Ro		
11:30-12:20 Filip Rindler (Warwick)	Rademacher's theorem, Cheeger's conjecture and PDEs for measures	
12:20-14:00 Lunch in the Mathematics Common Ro	oom	
14:00-19:00 Free afternoon		
19:00 Workshop dinner at Queen & Castle, Ke	enilworth (minibuses leave at 18:30)	
Thursday 15th		
09:00-09:50 Filippo Cagnetti (Sussex)	The rigidity problem for symmetrization	
	inequalities	
10:00-10:50 Arick Shao (QMUL)	Uniqueness theorems on asymptotically anti-de Sitter spacetimes	
10:50-11:30 Coffee in the Mathematics Common Room		
11:30-12:20 Reto Buzano (QMUL)	The moduli space of (2-convex) embedded	
	spheres	
12:20-14:00 Lunch in the Mathematics Common Ro		
14:00-14:50 Giuseppe Tinaglia (KCL)	The geometry of constant mean curvature surfaces in Euclidean space	
14:50-15:30 Coffee in the Mathematics Common Ro	oom	
15:30-16:20 Wenshuai Jiang (Warwick)	Regularity and compactness of	
	harmonic-Einstein equations	
16:30-17:20 Rafael Montezuma (Imperial)	Metrics of positive scalar curvature and unbounded min-max widths	
Friday 16th		
09:00-09:50 Costante Belletini (UCL)	Stable CMC varifolds of codimension 1	
10:00-10:50 Luc Nguyen (Oxford)	Lipschitz regularity for nonlinear degenerate elliptic equations arising in conformal	
10.50 11.30 Caffee in the Mathematics Co.	geometry	
10:50-11:30 Coffee in the Mathematics Common Ro	DOM	