

# Parabolic Geometry and Partial Differential Equations

## Auckland, New Zealand, 4-8 August 2008

Talks take place at the Department of Mathematics, 38 Princes Street, Auckland Central

	Start time	End time	Room	Talks/Activity
<b>Monday 4th August</b>	9:00 AM	10:00 AM	361	Registration/morning tea
	10:00 AM	10:50 AM	222	Bryant
				<b>Involutive rational normal structures</b>
	11:00 AM	11:50 AM	222	Eastwood
				<b>Differential complexes on complex projective space</b>
	12:00 PM	1:00 PM	561	Lunch
	1:00 PM	1:50 PM	222	Kalnins
				<b>Models of quantum quadratic algebras and their relation to classical superintegrable systems.</b>
	2:00 PM	2:40 PM	222	Hammerl
				<b>Natural Prolongations of BGG-Operators</b>
2:45 PM	3:15 PM	361	Afternoon tea	
3:15 PM	4:05 PM	222	Slovak	
			<b>Inclusions between parabolic geometries</b>	
4:10 PM	5:00 PM	222	Gover	
			<b>Yang-Mills detour complexes and conformal geometry</b>	
<b>Tuesday 5th August</b>	9:00 AM	9:50 AM	222	Cap
				<b>Curved Casimir operators</b>
	10:00 AM	10:30 AM	361	Morning tea
	10:30 AM	11:10 AM	222	Neusser
				<b>Weighted Jets and Prolongation of Overdetermined Systems of PDE's</b>
	11:20 AM	12:10 PM	222	Dunajski
				<b>Metricity in projective geometry</b>
	12:20 PM	1:30 PM	Bag lunch	Lunch
	1:30 PM	2:30 PM	222	Hirachi
				<b>Scalar invariants for even dimensional conformal structures</b>
2:30 PM	3:00 PM	361	Afternoon tea	
3:00 PM	3:50 PM	222	Soucek	
			<b>Applications of the Penrose transform in some orthogonal parabolic geometries.</b>	
4:00 PM	4:50 PM	222	Armstrong	
			<b>Non-regular quaternionic-contact structures as the conformal infinities of Einstein metrics</b>	
<b>Wednesday 6th August</b>	9:00 AM	9:50 AM	222	Bartnik
				<b>Geometric Boundary Conditions for the Ricci Tensor</b>
	10:00 AM	10:30 AM	222	Morning tea
	10:30 AM	11:20 AM	222	Sparling
				<b>Geometric approaches to Ordinary Differential Equations.</b>
	11:30 AM	12:20 PM	222	Leitner
			<b>A geometric construction of compact Poincare-Einstein metrics</b>	
12:30 PM	1:30 PM	561	Lunch	

	Start time	End time	Room	Talks/Activity
<b>Wednesday 6th August</b>	2:00 PM	2:50 PM	222	Nagy
				<b>Skew-symmetric prolongations of Lie algebras and applications</b>
	3:00 PM	3:40 PM	222	Bernhardt
				<b>Flat spinorial connections</b>
	3:45 PM	4:15 PM	361	Afternoon tea
	4:15 PM	5:15 PM	PLT1	Miao
				<b>On a geometric PDE arising from a constraint variational problem regarding the volume functional</b>
<b>Thursday 7th August</b>	9:00 AM	9:50 AM	222	Yamaguchi
				<b>Drapeau Theorem for Differential Systems and beyond</b>
	9:50 AM	10:20 AM	361	Morning tea
	10:30 AM	11:20 AM	222	Baird
				<b>Semiconformal maps and conjugate functions</b>
	11:30 AM	12:10 PM	222	Alt
				<b>Fefferman Constructions in Conformal Holonomy</b>
	12:15 PM	1:10 PM	561	Lunch
	1:10 PM	2:00 PM	222	Khan
				<b>Foliations associated with Levi-degeneracy for CR manifolds of higher codimensions</b>
	2:00 PM	3:30 PM		Free time
3:30 AM	4:00 PM	361	Afternoon tea	
4:00 PM	5:00 PM	MLT3	Colloquium (Bryant)	
			<b>The idea of holonomy</b>	
7:00 PM		Vivace Restaurant	Conference Dinner	
<b>Friday 8th August</b>	9:00 AM	9:50 AM	222	Fraudentiener
				<b>Remarks on discrete geometry</b>
	9:50 AM	10:20 AM	361	Morning tea
	10:30 AM	11:20 AM	222	Somberg
				<b>Continuous families invariant differential operators in conformal and CR geometries.</b>
	11:30 AM	12:20 PM	222	Blaom
				<b>Cartan's Method of Equivalence via Lie Algebroids</b>
12:20 PM	1:15 PM	561	Lunch	
1:15 PM	2:30 PM			
2:30 PM	3:00 PM	361	Afternoon tea?	