

SUMMER GRADUATE SCHOOL “GEOMETRIC GROUP THEORY”

JULY 01, 2019 MONDAY	08:00 AM - 09:00 AM	Breakfast
	09:00 AM - 10:00 AM	Introductory Talk
	10:15 AM - 11:30 AM	Group actions on Hilbert spaces: property T and Haagerup property <u>Talia Fernós</u> (University of North Carolina)
	11:30 AM - 12:00 PM	Coffee Break
	12:00 PM - 01:00 PM	Problem Session
	01:15 PM - 02:45 PM	Lunch
	03:00 PM - 04:15 PM	Orderable groups and dynamics in dimension 1 <u>Andrés Navas Flores</u> (University of Santiago de Chile)
	04:15 PM - 04:30 PM	Coffee Break
	04:30 PM - 05:30 PM	Problem Session
	05:45 PM - 07:00 PM	Students talks: - Sergio Zamora (Amenability) - Arturo Sánchez (Hölder's theorem)
	07:00 PM - 08:00 PM	Dinner
JUL 02, 2019 TUESDAY	08:00 AM - 09:00 AM	Breakfast
	09:00 AM - 10:15 AM	Orderable groups and dynamics in dimension 1 <u>Andrés Navas Flores</u> (University of Santiago de Chile)
	10:30 AM - 11:30 AM	Problem Session
	11:30 AM - 12:00 PM	Coffee Break
	12:00 PM - 01:00 PM	Students talks: - Ivan Salinas Pacheco (isometries of Hilbert spaces, first cohomology etc) - Luis García (Conrad's property for orderable groups)
	01:15 PM - 02:45 PM	Lunch
	03:00 PM - 04:15 PM	Group actions on Hilbert spaces: property T and Haagerup property <u>Talia Fernós</u> (University of North Carolina)
	04:15 PM - 04:30 PM	Coffee Break
	04:30 PM - 05:30 PM	Problem Session
	05:45 PM - 06:45 PM	Students talks: - Daniel Cardenas (orders in abelian groups) - Supun Samarakoon (growth of groups)
	07:00 PM - 08:00 PM	Dinner
JUL 03, 2019 WEDNESDAY	08:00 AM - 09:00 AM	Breakfast
	09:00 AM - 10:15 AM	Group actions on Hilbert spaces: property T and Haagerup property <u>Talia Fernós</u> (University of North Carolina)

	10:15 AM - 10:45 AM	Coffee Break
	10:45 AM - 12:00 PM	Orderable groups and dynamics in dimension 1 <u>Andrés Navas Flores</u> (University of Santiago de Chile)
	12:30 PM - 01:30 PM	Lunch
		Free afternoon
	07:00 PM - 08:00 PM	Dinner

JUL 04, 2019 THURSDAY	08:00 AM - 09:00 AM	Breakfast
	09:00 AM - 10:15 AM	Orderable groups and dynamics in dimension 1 <u>Andrés Navas Flores</u> (University of Santiago de Chile)
	10:30 AM - 11:30 AM	Problem Session
	11:30 AM - 12:00 PM	Coffee Break
	12:00 PM - 01:00 PM	Students talks: <ul style="list-style-type: none"> - Levi Sledd (Grigorchuk and Grigorchuk/Machi groups) - Christopher Roque Marquez (generalities on T)
	01:15 PM - 02:45 PM	Lunch
	03:00 PM - 04:15 PM	Group actions on Hilbert spaces: property T and Haagerup property <u>Talia Fernós</u> (University of North Carolina)
	04:15 PM - 04:30 PM	Coffee Break
	04:30 PM - 05:30 PM	Problem Session
	05:45 PM - 07:00 PM	Students talks: <ul style="list-style-type: none"> - Leydi Hernández (Orders on surface groups) - Dylan Dairey (SL(3) has T).
	07:00 PM - 08:00 PM	Dinner

JUL 05, 2019 FRIDAY	08:00 AM - 09:00 AM	Breakfast
	09:00 AM - 10:15 AM	Group actions on Hilbert spaces: property T and Haagerup property <u>Talia Fernós</u> (University of North Carolina)
	10:30 AM - 11:30 AM	Problem Session
	11:30 AM - 12:00 PM	Coffee Break
	12:00 PM - 01:00 PM	Students talks: <ul style="list-style-type: none"> - Gary de Clerk (Orders and automata) - Angel Cruz (Banach-Tarski)
	01:15 PM - 02:45 PM	Lunch
	03:00 PM - 04:15 PM	Orderable groups and dynamics in dimension 1 <u>Andrés Navas Flores</u> (University of Santiago de Chile)
	04:15 PM - 04:30 PM	Coffee Break
	04:30 PM - 05:30 PM	Problem Session
	05:45 PM - 07:00 PM	Students talks: <ul style="list-style-type: none"> - Briseida Trejo and Ernesto Vazquez (Braid groups)
	07:00 PM - 08:00 PM	Dinner



SUMMER GRADUATE SCHOOL “GEOMETRIC GROUP THEORY”

JUL 08, 2019 MONDAY	08:00 AM - 09:00 AM	Breakfast
	09:00 AM - 10:15 AM	Geometry and topology of mapping class groups <u>Jing Tao</u> (University of Oklahoma)
	10:30 AM - 11:30 AM	Problem Session
	11:30 AM - 11:45 AM	Coffee Break
	11:45 AM - 01:00 PM	Students talks / Discussion time
	01:15 PM - 02:45 PM	Lunch
	03:00 PM - 04:15 PM	Geometry and topology of free group automorphisms: hyperbolic extensions <u>Spencer Dowdall</u> (Vanderbilt University)
	04:15 PM - 04:30 PM	Coffee Break
	04:30 PM - 05:30 PM	Problem Session
	05:45 PM - 06:45 PM	Students talks: - Chaitanya Tappu (Kirby torus trick) - Arora Shivam (Basics of hyperbolic groups I)
	07:00 PM - 08:00 PM	Dinner
	JUL 09, 2019 TUESDAY	08:00 AM - 09:00 AM
09:00 AM - 10:15 AM		Geometry and topology of free group automorphisms: hyperbolic extensions <u>Spencer Dowdall</u> (Vanderbilt University)
10:30 AM - 11:30 AM		Problem Session
11:30 AM - 11:45 AM		Coffee Break
11:45 AM - 01:00 PM		Students talks: - Jonathan Alacaraz (Bigon crietion) - Haydee Contreras (Basics of hyperbolic groups II)
01:15 PM - 02:45 PM		Lunch
03:00 PM - 04:15 PM		Geometry and topology of mapping class groups <u>Jing Tao</u> (University of Oklahoma)
04:15 PM - 04:30 PM		Coffee Break
04:30 PM - 05:30 PM		Problem Session
05:45 PM - 06:45 PM		Students talks: - Mark Fincher (Bass-Serre theory)
07:00 PM - 08:00 PM		Dinner
JUL 10, 2019 WEDNESDAY		08:00 AM - 09:00 AM
	09:00 AM - 10:15 AM	Geometry and topology of mapping class groups <u>Jing Tao</u> (University of Oklahoma)
	10:15 AM - 10:45 AM	Coffee Break

	10:45 AM - 12:00 PM	Geometry and topology of free group automorphisms: hyperbolic extensions <u>Spencer Dowdall</u> (Vanderbilt University)
	12:30 PM - 01:30 PM	Lunch
		Free afternoon
	07:00 PM - 08:00 PM	Dinner

JUL 11, 2019 THURSDAY	08:00 AM - 09:00 AM	Breakfast
	09:00 AM - 10:15 AM	Geometry and topology of free group automorphisms: hyperbolic extensions <u>Spencer Dowdall</u> (Vanderbilt University)
	10:30 AM - 11:30 AM	Problem Session
	11:30 AM - 11:45 AM	Coffee Break
	11:45 AM - 01:00 PM	Students talks: - Anindya Chanda (Definition and basic properties of train track representatives for free group automorphisms)
	01:15 PM - 02:45 PM	Lunch
	03:00 PM - 04:15 PM	Geometry and topology of mapping class groups <u>Jing Tao</u> (University of Oklahoma)
	04:15 PM - 04:30 PM	Coffee Break
	04:30 PM - 05:30 PM	Problem Session
	05:45 PM - 06:45 PM	Students talks: - Jesús Hernandez Serda (Ping-pong and Dehn twists)
	07:00 PM - 08:00 PM	Dinner

JUL 12, 2019 FRIDAY	08:00 AM - 09:00 AM	Breakfast
	09:00 AM - 10:15 AM	Geometry and topology of mapping class groups <u>Jing Tao</u> (University of Oklahoma)
	10:30 AM - 11:30 AM	Problem Session
	11:30 AM - 11:45 AM	Coffee Break
	11:45 AM - 01:00 PM	Students talks: - Christopher Loa (Thurston's construction of pseudo-anosov)
	01:15 PM - 02:45 PM	Lunch
	03:00 PM - 04:15 PM	Geometry and topology of free group automorphisms: hyperbolic extensions <u>Spencer Dowdall</u> (Vanderbilt University)
	04:15 PM - 04:30 PM	Coffee Break
	04:30 PM - 05:30 PM	Problem Session
	05:45 PM - 06:45 PM	Discussion time
	07:00 PM - 08:00 PM	Dinner