

Integrable dynamical systems and Geometry

ENS Lyon, December 5-7, 2022

Monday, December 5

9:00–9:40	<i>Registration</i>	
9:40–9:50	<i>Opening</i>	
9:50–10:40	Alain Albouy	The conformal and projective transformations in Newtonian dynamics from Goursat and Halphen
10:40–11:05	<i>Coffee break</i>	
11:05–11:55	Alexander Veselov	Integrability in Bianchi and Thurston's geometries
12:05–12:30	Keagan Callis	Absolutely periodic billiard orbits of arbitrarily high order
12:30–14:00	<i>Lunch</i>	
14:00–14:50	Alain Chenciner	Elliptic fixed points with an invariant foliation: some facts and more questions
14:50–15:20	<i>Coffee break</i>	
15:20–16:05	Sergei Tabachnikov	Flavors of bicycle mathematics 1/3
16:15–17:05	Vladimir Fock	Discrete group of integrable flows

Tuesday, December 6

9:20–10:10	Vincent Delecroix	Periodic orbits in quadratic differentials of high complexity
10:10–10:40	<i>Coffee break</i>	
10:40–11:30	Jean-Pierre Marco	Polynomial entropy, one-way horseshoes and convex billiards
11:40–12:30	Corentin Fierobe	From diamonds to length spectrum rigidity
12:30–14:00	<i>Lunch</i>	
14:00–14:45	Sergei Tabachnikov	Flavors of bicycle mathematics 2/3
14:45–15:15	<i>Coffee break</i>	
15:15–16:00	Sergei Tabachnikov	Flavors of bicycle mathematics 3/3
19:15	<i>Banquet</i>	

Wednesday, December 7

9:00–9:45	Marie-Claude Arnaud	On the persistence of periodic tori for symplectic twist maps in all dimensions 1/2
9:55–10:40	Marie-Claude Arnaud	On the persistence of periodic tori for symplectic twist maps in all dimensions 2/2
10:40–11:00	<i>Coffee break</i>	
11:00–11:45	Alexey Bolsinov	Integrable systems on Lie algebras and their applications in differential geometry 1/2
11:55–12:40	Alexey Bolsinov	Integrable systems on Lie algebras and their applications in differential geometry 2/2
12:40–12:50	<i>Closing</i>	

Organizing committee : Alexey Glutsyuk Valentin Ovsienko Abdelghani Zeghib