Representation Theory XIX IUC, Dubrovnik, Croatia, June 22 – 28, 2025 Schedule: Number Theory Section

Monday, June 23

8:50 – 9:15	Filip Najman: Ranks of elliptic curves with prescribed torsion over number fields
9:25 – 10:15 10:25 – 10:50	Florian Luca: On a question of Douglass and Ono Matija Kazalicki: Rational Diophantine m-tuples in the work of Andrej Dujella
Chair: Tomislav Pejković	
10:50 – 11:10 11:10 – 12:00	Coffee break Gary Walsh: Results and problems on ranks of elliptic curves arising in the work of Tetsuji Shioda
12:10 – 12:35	Dubravka Ban: Locally analytic vectors in Banach space representations of SL_2(Q_p)
12:45 – 13:10	Igor Ciganović: Induction from two linked segments with one half border and cuspidal reducibility

Chair: Bartosz Naskrecki

Tuesday, June 24

9:00 - 9:50	Istvan Gaal: Monogenity of algebraic number fields
10:00 - 10:50	Yasutsugu Fujita: On the generalized Ramanujan-Nagell equation x^2-
	D=4p^n

Chair: Petar Orlić

10:50 – 11:10	Coffee break
11:10 – 11:35	Mihai Cipu: D(+-1)-quintuples in imaginary quadratic fields
11:45 – 12:10	Szabolcs Tengely: Higher power rational Diophantine tuples
10.00 10.15	A1
12:20 – 12:45	Alen Andrašek: Regular higher power Diophantine m-tuples

Chair: Lajos Hajdu

Wednesday, June 25

9:00 - 9:50	Lajos Hajdu: On Diophantine graphs
10:00 – 10:50	Attila Berczés: Some Diophantine problems connected to binary recurrences

Chair: Mihai Cipu

10:50 – 11:10	Coffee break
11:10 – 11:35	Dijana Kreso: Composite Polynomials as Sums of Powers of Two Fixed
	Polynomials
11:45 – 12:10	Sanda Bujačić: Regularity of D(4)-quadruples in Q[i][X]
12:20 - 12:45	Ana Jurasić: Extensions of the Triangular D(3)-pair {3,6}

Chair: Ivan Soldo

Thursday, June 26

9:00 – 9:50 Bartosz Naskrecki:	Detecting Symmetry Groups in Crystallographic Tilings
--------------------------------	---

10:00 – 10:50 **Mohammad Sadek:** Abelian varieties, torsion and local arithmetic

Chair: Ivan Novak

10:50 – 11:10	Coffee break
11:10 – 11:35	Domagoj Vlah: Teaching old sums new tricks: Data-driven enhancements for elliptic curve rank heuristics
11:45 – 12:10	Ivan Novak: Q-curves over number fields of small odd prime degree
12:20 - 12:45	Petar Orlić: Tetragonal intermediate modular curves
12:55 – 13:20	Lukas Novak: Twists arising from torsion points

Chair: Matija Kazalicki

Friday, June 27

9:00 – 9:50	Boris Širola: On prime numbers in orders of number fields and some applications	
10:00 – 10:25	Tomislav Pejković: Schneider's p-adic continued fractions of rational numbers	
10:30 – 10:50	Poster session	
Chair: Lukas Novak		
10:50 – 11:10	Coffee break	
11:10 – 11:35	Mirela Jukić Bokun: Extensions of D(-1)-pairs in imaginary quadratic fields	
11:45 – 12:10	Ivan Soldo: The extendibility of the parametric D(-1)-triples	

Chair: Alen Andrašek

Saturday, June 28

Free discussion