Conference on Diophantine m-tuples and related problems III Zagreb, Croatia, September $14-16,\,2022$

Program

The conference is held at the Faculty of Civil Engineering, University of Zagreb, Fra Andrije Kačića-Miošića 26. All talks take place in room 121 on the first floor.

Wednesday, September 14, 2022

9:00 - 9:50	Registration	
9:50 - 10:00	Opening	
Morning session		
10:00 - 10:50	On Diophantine pairs	
	Alain Togbé	
10:50 - 11:20	Coffee break	
11:20 - 11:50	D(4)-triples with two largest elements in common	
	Marija Bliznac Trebješanin	
11:50 - 12:20	On the regularity of the $D(4)$ -quadruples in $\mathbb{Z}[X][i]$	
	Sanda Bujačić Babić	
12:20 - 14:00	Lunch break	
Afternoon session 1		
14:00 - 14:30	On $D(-1)$ -tuples in the ring $\mathbb{Z}[\sqrt{-k}], k > 0$	
	Ivan Soldo	
14:30 - 15:00	Asymptotics of $D(q)$ -pairs and triples	
	Goran Dražić	
15:00 - 15:30	Coffee break	
Afternoon session 2		
15:30 - 16:00	Applications of Pellian equations of a special type	
	Mirela Jukić Bokun	
16:00 - 16:30	Representation of integers of the form $x^2 + ky^2 - lz^2$	
	Supawadee Prugsapitak	

Thursday, September 15, 2022

Morning session		
10:00 - 10:50	D(n)-tuples for several n 's	
	Andrej Dujella	
10:50 - 11:20	Coffee break	
11:20 - 11:50	D(n)-quintuples with square elements	
	Vinko Petričević	
11:50 - 12:20	Diophantine triples with non-uniform recurrences	
	László Szalay	
12:20 - 14:00	Lunch break	
Afternoon session 1		
14:00 - 14:50	On X and Y coordinates of Pell equations in various	
	sequences	
	Florian Luca	
14:50 - 15:20	On the comparison between the value of the divisor function	
	to its value at Euler's function	
	Djamel Bellaouar	
15:20 - 15:50	Coffee break	
Afternoon session 2		
15:50 - 16:40	On the regularity of Diophantine triple with degree 1	
	Bo He	
16:40 - 17:10	The extension of the $D(-k)$ -triple $\{1, k, k+1\}$ to a	
	quadruple	
	Kouèssi Norbert Adédji	
19:00	Conference dinner	

Friday, September 16, 2022

Morning session		
	On the solutions of a class of generalized Fermat equations	
10:00 - 10:50	$signature\ (2,2n,3)$	
	Gökhan Soydan	
10:50 - 11:20	Coffee break	
11:20 - 11:50	Longer gaps between values of binary quadratic forms	
	Christian Elsholtz	
	Integer points on elliptic curves induced by a family of	
11:50 - 12:20	Diophantine triples involving balancing numbers	
	Artatrana Suna	
12:20 - 12:30	Closing	
12:30 - 14:00	Lunch break	