Simion Stoilow Institute of Mathematics
of the Romanian Academy

National University of Science and
Technology Politehnica Bucharest

Workshop on

Formulas in Number Theory - Research in Pairs in Bucharest

Bucharest, February 14, 2024

IMAR, Amphitheater *Miron Nicolescu*

10:00 - 10:30	**Lorenzo Sauras-Altuzarra** (Technische Universität Wien)
	Proof mining in Fermat numbers
10:30 - 11:00	**Mihai Prunescu** (University of Bucharest and IMAR)
	Closed term formulas for tau, sigma, phi and other functions
11:00 - 11:30	**Mihai Cipu** (IMAR)
	Explicit formulas for the solutions of simultaneous Pell equations

Coffee Break

12:30 - 13:00	**Silviu Bălănescu** (Politehnica Bucharest)
	On the arithmetic quasi-depth
13:00 - 13:30	**Nicolae Bonciocat** (IMAR)
	Resultants, prime numbers and irreducible polynomials
13:30 - 14:00	**Vlad Matei** (IMAR)
	Some new families with prescribed Galois group