

Contents

Preface	vii
Scientific program	ix
List of participants	xi
The A-factor locus of a normal function DEVIN AKMAN	1
Regulators and derivatives of Vologodsky functions with respect to $\log(p)$ AMNON BESSER	11
A motivic approach to rational p -adic cohomologies FEDERICO BINDA and ALBERTO VEZZANI	45
Quadratically enriched binomial coefficients over a finite field CHONGYAO CHEN and KIRSTEN WICKELGREN	77
Knots, primes and class field theory ALAIN CONNES and CATERINA CONSANI	105
The Grassmannian complex and Goncharov's motivic complex in weight 4 HERBERT GANGL	133
A finite regulator map for the Bloch group HERBERT GANGL and MAXIM KONTSEVICH	153
Calculating Archimedean height pairing via generalized cross-ratio ALEXANDER B. GONCHAROV	167
Atypical Hodge loci PHILLIP GRIFFITHS	171
Motivic irrationality proofs MATT KERR	187
On singular supports in mixed characteristic TAKESHI SAITO	213
Picard-Fuchs equations of twisted differential forms associated to Feynman integrals PIERRE VANHOVE	261