

Diophantine Approximation and Transcendence

CIRM, Luminy, from 15/09/2014 to 19/09/2014

SCHEDULE

Monday 15/09 :

9h05 – 9h15 : Welcome

9h15 – 9h45 : Bennett, *title to be announced*.

10h – 10h30 : Thunder, *A New Look at Thue Equations*.

Coffee break

11h – 11h30 : Györy, *On difference graphs of S -units*.

11h45 – 12h15 : Hajdu, *Describing the gaps in the sequence of integral S -units*.

17h – 17h30 : Stewart, *A refinement of the abc conjecture*.

17h45 – 18h15 : Akhtari, *Counting integer points on a special family of elliptic curves*.

18h30 – 19h : Berczes, *Effective results for division points on curves in \mathbf{G}_m^2* .

Tuesday 16/09 :

9h15 – 9h45 : Rivoal, *Propriétés arithmétiques des E -opérateurs*. Schinzel, *The congruence $f(x) + g(y) + c = 0 \pmod{xy}$* .

10h – 10h30 : Schinzel, *The congruence $f(x) + g(y) + c = 0 \pmod{xy}$* .

Coffee break

11h – 11h30 : Adamczewski, *A problem about Mahler functions*.

11h45 – 12h15 : Delaygue, *Algebraic independence of G -functions and Lucas-type congruences*

17h – 17h30 : Evertse, *Root separation of polynomials*.

17h45 – 18h15 : Amoroso, *Racines multiples de polynômes lacunaires*.

18h30 – 19h : Widmer, *Lower bounds for the smallest height of a generator*.

Wednesday 17/09 :

9h15 – 9h45 : Bertrand, *Generalized jacobians and Pellian polynomials.*

10h – 10h30 : Fischler, *Between interpolation and multiplicity estimates on commutative algebraic groups.*

Coffee break

11h – 11h30 : Levin, *Variations on the Subspace Theorem.*

11h45 – 12h15 : Gaudron, *Espace adélique quadratique.*

Free afternoon

Thursday 18/09 :

9h15 – 9h45 : Roy, *On Schmidt and Summerer parametric geometry of numbers.*

10h – 10h30 : Moschevitin, *Problems concerning Diophantine spectra.*

Coffee break

11h – 11h30 : Ghosh, *Diophantine approximation exponents for homogeneous varieties.*

11h45 – 12h15 : Chevallier, *title to be announced.*

16h30 – 17h00 : Poulakis, *Integral solutions of Thue equations.*

17h15 – 17h45 : Beresnevich, *Badly approximable points.*

18h00 – 18h30 : Haynes, *Gaps problems and pattern frequencies in aperiodic point sets.*

18h45 – 19h15 : Zudilin, *Radial asymptotics of Mahler functions and hypertranscendence questions.*

Friday 19/09 :

9h15 – 9h45 : Hirata, *Linear independence criterion for polylogarithms in the complex and in the p -adic cases.*

10h – 10h30 : Viola, *Linear independence of dilogarithmic values.*

Coffee break

11h – 11h30 : Saradha, *Simultaneous Rational Approximation via Rickert's Integrals.*

11h45 – 12h15 : Zorin, *Diophantine Properties of Mahler Numbers.*

Free afternoon