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RESEARCH WORKSHOP

23rd–29th of April 2009

Organisers: D. R. Heath-Brown, A. MacIntyre, Yu. I. Manin,
Yu. V. Matiyasevich, and B. Z. Moroz

Thursday, April 23rd

- 10–11 a.m. Yu. I. Manin, Mordell–Weil problem for cubic surfaces: in search of a model-theoretic approach.
- 11:30–12:30 p.m. T. Wooley, Rational points on complete intersections, and mean values of Weyl sums (joint work with P. Salberger).
- 2:30–3 p.m. B. Viray, Failure of the Hasse principle for Enriques surfaces.
- 3:30–4:00 p.m. P. Moree, The Erdős–Moser equation revisited, using continued fractions (joint work with Y. Gallot and W. Zudilin).

Friday, April 24th

- 9–10 a.m. V. Abrashkin, A semistable case of a generalization of the Shafarevich conjecture.
- 10:30–11:30 a.m. P. Corvaja, Recent results on integral points on surfaces.
- 1:30–2 p.m. N. Billerey, Irreducibility criterion for elliptic Galois representations.
- 2:15–2:45 p.m. J.-H. Evertse, Effective results on points of certain subvarieties of tori (joint work with A. Berczes, K. Györy, and C. Pontreau).
- 3:15–3:45 p.m. D. Loughran, Manin’s conjecture for a singular sextic del Pezzo surface.
- 4–4:30 p.m. Ch. Samuels, The collection of metric Mahler measures.

Sunday, April 26th

- 9–10 a.m. A. MacIntyre, Schanuel’s conjecture and systems of exponential equations over the reals and the complexes.
- 10.30–11:30 a.m. L. Dieulefait, The proof of Serre’s conjecture: the ubiquity of modular forms.

- 1:30–2 p.m. J. Zahid, Simultaneous zeros of a cubic and a quadratic form over the p -adic numbers.
- 2:30–3 p.m. A. Ustinov, On the distribution of Frobenius numbers.
- 3:15–3:45 p.m. A. Schinzel, Equal values of trinomials (joint work with G. Peter and A. Pintér).
- 4–4:30 p.m. M. Carrizosa, Relative Lehmer problem for CM abelian varieties.

Monday, April 27th

- 9–10 a.m. P. Salberger, On the density of rational points on curves and Fermat hypersurfaces.
- 10:30–11:30 a.m. D. R. Heath-Brown, Zeros of systems of p -adic forms.
- 1:30–2 p.m. Yu. Yasufuku, Vojta’s conjecture on blowups and the abc .
- 2:15–2:45 p.m. J. Brüdern, Pairs of undenary cubic forms.
- 3:15–3:45 p.m. H. Godinho, Additive equations over p -adic fields.
- 4–4:30 p.m. N. Jones, Serre curves in one-parameter families (joint work with A. Cojocaru and D. Grant).

Tuesday, April 28th

- 9–10 a.m. J. L. Golliot-Thélène, Quadrics over function fields in one variable over a p -adic field.
- 10:30–11:30 a.m. J. Pila, Rational points of definable sets and Diophantine problems.
- 1:30–2 p.m. A. Várilly-Alvarado, Cox rings of big rational surfaces (joint work with D. Testa and M. Velasco).
- 2:15–2:45 p.m. D. Harari, Some Poitou–Tate exact sequences.
- 3:15–3:45 p.m. V. Blomer, On a sextenary cubic form (joint work with J. Brüdern).
- 4–4:30 p.m. N. Niedermowwe, An asymptotic formula for the number of S -integral points of bounded height in \mathbb{P}^n with respect to a quadric.

Wednesday, April 29th

- 9–10 a.m. K. Györy, Perfect powers in products with terms from an arithmetic progression.
- 10:30–11:30 a.m. A. Skorobogatov, The Brauer group of Kummer surfaces and torsion of elliptic curves.
- 1:30–2 p.m. R. Dietmann, Linear spaces on rational algebraic hypersurfaces.

2:30–3 p.m. G. Marasingha, Almost prime roots of ternary quadratic forms.

3:15–3:45 p.m. M. P. Harvey, On cubic forms in seven variables.