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3. Models and Sets Seminar

Models and Sets Seminar

Models and Sets is a weekly joint seminar of model theorists and set theorists in Leeds. We have a mix of external speakers and internal speakers. It's open for all to join, please contact Mervyn Tong at ... for zoom links to join the seminar.

Time and place: MALL 1 & Zoom, Wednesday 13.45 - 15.00.

Current organisers: Mervyn Tong and Aris

The seminar will resume on the 4th of October.

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[Guy Fowler \(Leibniz University Hannover\)](#)

Date

Wednesday 12 July 2023, 2.00 PM

Category

[Models and Sets Seminar](#)

Location: Roger Stevens LT23 (8.23)

Title: O-minimality and finiteness of some atypical intersections for $Y(1)^n$

NOTE location change: Roger Stevens LT23 (8.23)

I will explain how o-minimality can be used to prove that, for a modular function f with Heegner divisor, there are only finitely many n -tuples of f -images of CM-points which are multiplicatively dependent. I will also discuss the relation between this result and the Zilber–Pink conjecture for atypical intersections.

[Sebastian Krapp \(University of Konstanz\)](#)

Date

Wednesday 21 June 2023, 2:00 PM

Category

[Models and Sets Seminar](#)

Location: MALL

Title: Introducing a first-order theory of ordered transexponential fields

(joint work with Salma Kuhlmann)

Studying the growth properties of definable functions in o-minimal settings, Miller established the following remarkable growth dichotomy: an o-minimal expansion of an ordered field is either power bounded or admits a definable exponential function (see [2]). Going one step further in the hierarchy of growth, Miller’s dichotomy result naturally led to the question whether there exist o-minimal expansions of ordered fields that are not exponentially bounded. Recent research activity in this area is therefore motivated by the search for either an o-minimal expansion of an ordered exponential field by a transexponential function that eventually exceeds any iterate of the exponential or, contrarily, for a proof that any o-minimal