

上智大学整数論セミナーのお知らせ

日時： 2015年8月3日（月曜）16:30-17:30

場所： 市ヶ谷本館201室

講演者： Ambrus PAL 氏 (Imperial College London)

講演題目： The Manin constant of elliptic curves
over function fields

アブストラクト： We study the p -adic valuation of the values of normalised Hecke eigenforms attached to non-isotrivial elliptic curves defined over function fields of transcendence degree one over finite fields of characteristic p . Under certain assumptions we derive lower and upper bounds on the smallest attained valuation in terms of the minimal discriminant. As a consequence we show that the former can be arbitrarily small. Our results also imply the analogue of the degree conjecture for strong Weil curves in this setting. I will also talk about possible generalisations of these results to abelian varieties of higher dimension.