

# 國立清華大學數學系學術演講

## NTHU MATH Colloquium

講題 Linear relations among algebraic points on Drinfeld modules

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時間 2022.5.20 (Fri.) 13:30 – 14:30

地點 <https://youtu.be/EeUBbqWmWwo>

### **Abstract**

Let  $E$  be an elliptic curve defined over a number field  $K$ . Given finitely many  $K$ -rational points on  $E$ , Masser proved that there is an explicit upper bound for the size of the generators of linear relations among those points. This upper bound depends on the number of points, Neron-Tate height on  $E(K)$ , and the size of the torsion subgroup of  $E(K)$ . Let  $L$  be a finite extension of the rational function field over a finite field. We aim to study an analogue of Masser's result for finitely many  $L$ -rational points on a given Drinfeld module defined over  $L$ .