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# Seminar des SFB/TRR 326 GAUS

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Freitag, 05.12.2025

**Prof. Dr. Chun Yin Hui**

The University of Hongkong

spricht über das Thema

## **On the distribution of supersingular primes of abelian varieties and K3 surfaces**

Let  $X$  be an abelian variety or a  $K3$  surface defined over a number field  $K$ . We prove that the density of the supersingular primes of  $X/K$  is zero if  $X$  is non-CM. By applying an effective Chebotarev density theorem of Serre, we obtain asymptotic upper bounds of the counting function for these supersingular primes.

Ort: **INF 205, SR A**

Beginn: **13:30 Uhr**

Alle Interessenten sind herzlich eingeladen.

Prof. Dr. Gebhard Böckle