



## Mathematics and CS Seminar

# Transcendental Brauer—Manin obstructions on singular K3 surfaces

**Rachel Newton**

King's College London

Host: Tim Browning

Let  $E$  and  $E'$  be elliptic curves over  $Q$  with complex multiplication by the ring of integers of an imaginary quadratic field  $K$  and let  $Y = \text{Kum}(E \times E')$  be the minimal desingularisation of the quotient of  $E \times E'$  by the action of  $-1$ . We study the Brauer groups of such surfaces  $Y$  and use them to furnish new examples of transcendental Brauer–Manin obstructions to weak approximation. This is joint work with Mohamed Alaa Tawfik.

**Thursday, November 14, 2024 01:00pm - 03:00pm**

Office Bldg West / Ground floor / Heinzel Seminar Room (I21.EG.101)



This invitation is valid as a ticket for the ISTA Shuttle from and to Heiligenstadt Station.

Please find a schedule of the ISTA Shuttle on our webpage:

<https://ista.ac.at/en/campus/how-to-get-here/> The ISTA Shuttle bus is marked ISTA Shuttle (#142) and has the Institute Logo printed on the side.