



Algebra and Number Theory Seminar

Title: Mirror symmetry for the Fargues-Fontaine curve

Speaker: Yanki Lekili (London)

Date: Thu 28th November 2019 at 2:00PM

Location: Seminar Room SCN 1.25

Abstract: I will explain how to introduce a Frobenius twist in the construction of Fukaya category by equipping the underlying symplectic manifold with a locally constant sheaf of rings. When the fiber of this sheaf of rings is perfectoid of characteristic p , it is possible to specialize the Novikov parameter $t = 1$, and the Lagrangians in the resulting category can be matched with vector bundles on the equal-characteristic-version of the Fargues-Fontaine curve. Don't worry, despite this technical description, this is only a story about triangles on a torus. Joint work with David Treumann.

(This will be a natural continuation of the speaker's Colloquium Talk on November 27)

https://maths.ucd.ie/kazim_b/UCD_ANT_seminar.html