



## Algebra and Number Theory Seminar

**Title:** Mirror symmetry for the Fargues-Fontaine curve

**Speaker:** Yankı 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/UCDANTseminar.html](https://maths.ucd.ie/~kazim_b/UCDANTseminar.html)