

## **Local Galois representations and stable reduction of curves**

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Let  $Y$  be a curve defined over a number field. We discuss how knowing the stable reduction of  $Y$  at a prime  $p$  of  $K$  it is in principle possible to determine the local Weil-Deligne representation at  $p$ . We illustrate this in the case of superelliptic curves.

This is joint work with Stefan Wewers.