

Hyperelliptic curves and Galois representations

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The arithmetic of hyperelliptic curves over local fields is an active topic of research in algebraic number theory and arithmetic geometry. In this talk, I will focus on curves defined over a p -adic field with potentially good reduction, which acquire good reduction over a wildly ramified “large” extension of the field of definition, and I will explicitly compute the associated ℓ -adic Galois representation.