

---

**REBECCA BELLOVIN**, Glasgow

*Modularity of trianguline Galois representations*

The Fontaine-Mazur conjecture (proved by Kisin and Emerton) says that (under certain technical hypotheses) a Galois representation  $\rho : \text{Gal}_{\mathbf{Q}} \rightarrow \text{GL}_2(\overline{\mathbf{Q}}_p)$  is modular if it is unramified outside finitely many places and de Rham at  $p$ . I will discuss an analogous modularity result for Galois representations  $\rho : \text{Gal}_{\mathbf{Q}} \rightarrow \text{GL}_2(L)$  which are unramified away from  $p$  and trianguline at  $p$ , when  $L$  is instead a non-archimedean local field of characteristic  $p > 0$ . More precisely, I will show that such Galois representations are attached to points on the extended eigencurve.