

Patching and p -adic local Langlands

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The p -adic local Langlands correspondence is well understood for $\mathrm{GL}_2(\mathbb{Q}_p)$, but appears much more complicated when considering $\mathrm{GL}_n(F)$, where either $n > 2$ or F is a finite extension of \mathbb{Q}_p . I will discuss *joint work with Matthew Emerton, Toby Gee, David Geraghty, Vytautas Paskunas and Sug Woo Shin*, in which we approach the correspondence using global methods. We study the relationship between Taylor–Wiles–Kisin patching of completed cohomology and p -adic local Langlands, and give an application to the Breuil–Schneider conjecture.

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