

## Shimura Varieties and Modularity (2/3)

*mardi 26 juillet 2022 15:00 (1 heure)*

We describe the Calegari-Geraghty method for proving modularity lifting theorems beyond the classical setting of the Taylor-Wiles method. We discuss the three conjectures that this method relies on (existence of Galois representations, local-global compatibility and vanishing of cohomology outside a certain range of degrees) and their current status, and then explain the commutative algebra underlying the method.

### Summary

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