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*p-adic dynamics of Hecke operators*

In a joint work with Payman Kassaei, we are studying p-adic analytic dynamics of Hecke operators. While the questions we ask can be posed and studied for the action of Hecke operators on Shimura (or special) sub varieties of any given ambient Shimura variety, the case of modular curves is already a treasure trove and so I'll focus in my lecture on this case.