

# Big image of Galois representations associated to $p$ -adic families of bounded slope

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In a *joint work with A. Conti and A. Iovita*, we generalize to the finite slope case a previous result by Hida who worked in the ordinary case. He proved that the image of the Galois representation associated to non CM Hida family contains a congruence subgroup and essentially determines this ideal in terms of congruences. We obtain similar results *mutatis mutandi*.

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