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# Modularity lifting results in parallel weight one and applications to the Artin conjecture: the tamely ramified case

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We extend the modularity lifting result of the [arXiv:1111.2804](#) to allow Galois representations with some ramification at  $p$ . We also prove modularity mod 2 and 5 of certain Galois representations. We use these results to prove many new cases of the strong Artin conjecture over totally real fields in which 5 is unramified.

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