1056-11-1219   **Kenneth A. Ribet*** (`ribet@math.berkeley.edu`), Mail Code 3840, 970 Evans Hall, Berkeley, CA 94720-3840. *Non-optimal levels of reducible two-dimensional mod ℓ representations of the Galois group of* **Q**.

We are interested in the possible square free integers N that are levels of classical weight-2 newforms with trivial character whose associated mod ℓ Galois representations are the direct sum of the trivial character and the mod ℓ cyclotomic character. B. Mazur determined all possible prime numbers N that are such levels in 1977. We continue by treating the case where N is the product of two distinct primes and obtaining partial information about the case where N is an arbitrary product of distinct prime numbers.

This work will become part of a joint project with L. Dieulefait and J. Jiminez-Urroz. (Received September 21, 2009)