

On the level raising of cuspidal eigenforms modulo prime powers

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ABSTRACT

In this talk, we will introduce the notion of cuspidal eigenforms modulo prime powers and the method, introduced by Carayol, to attach to such eigenforms some Galois representations. We will prove a level raising theorem modulo prime powers which partially generalizes the celebrated results of Ribet and Diamond for classical modular forms. To conclude, we will discuss some examples.