

Title: On some mod p representations of $Gal(\overline{Q_p}/Q_p)$ and of $GL_2(Q_p)$

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ABSTRACT:

Using the theory of (ϕ, Γ) -modules, one can construct representations of the Borel subgroup of $GL_2(Q_p)$, starting from galois representations. I will explain this construction, its relation to the p-adic Langlands program, and provide details for some explicit examples.