



Central characters for smooth irreducible modular representations of $GL_2(\mathbb{Q}_p)$

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We prove that every smooth irreducible F_p^{alg} -linear representation of $GL_2(\mathbb{Q}_p)$ admits a central character.

Comments: Version 2 had a proof of the same result for $F \leftrightarrow \mathbb{Q}_p$, however this proof was wrong

Subjects: **Representation Theory (math.RT)**; Number Theory (math.NT)

MSC classes: 22E50

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