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To an Effective Local Langlands Correspondence (Memoirs of the American Mathematical Society)

Colin J. Bushnell, Guy Henniart

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Let F be a non-Archimedean local field. Let $/mathcal{W}_{F}$ be the Weil group of F and $/mathcal{P}_{F}$ the wild inertia subgroup of $/mathcal{W}_{F}$. Let $/widehat {/mathcal{W}}_{F}$ be the set of equivalence classes of irreducible smooth representations of $/mathcal{W}_{F}$. Let $/mathcal{A}^{0}_{n}(F)$ denote the set of equivalence classes of irreducible cuspidal representations of $/mathrm{GL}_{n}(F)$ and set $/widehat {/mathrm{GL}}_{F} = /bigcup _{n/ge 1} /mathcal{A}^{0}_{n}(F)$. If $/sigma /in /widehat {/mathcal{W}}_{F}$, let $^{L}{/sigma }/in /widehat {/mathrm{GL}}_{F}$ be the cuspidal representation matched with $/sigma$ by the Langlands Correspondence. If $/sigma$ is totally wildly ramified, in that its restriction to $/mathcal{P}_{F}$ is irreducible, the authors treat $^{L}{/sigma}$ as known. From that starting point, the authors construct an explicit bijection $/mathbb{N}:/widehat {/mathcal{W}}_{F} /to /widehat {/mathrm{GL}}_{F}$, sending $/sigma$ to $^{N}{/sigma}$. The authors compare this "naive correspondence" with the Langlands correspondence and so achieve an effective description of the latter, modulo the totally wildly ramified case. A key tool is a novel operation of "internal twisting" of a suitable representation $/pi$ (of $/mathcal{W}_{F}$ or $/mathrm{GL}_{n}(F)$) by tame characters of a tamely ramified field extension of F, canonically associated to $/pi$. The authors show this operation is preserved by the Langlands correspondence.

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