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The Local Converse Problem for GL(n,F)

Let F be a non-archimdean local field of characteristic zero. The local converse problem for asks to what extent the twisted gamma factors determine a representation of GL(n,F). Jacquet has formulated a conjecture on precisely which family of twisted gamma factors should uniquely determine a representation of GL(n,F). Because of recent work of Dihua Jiang, Chufeng Nien, and Shaun Stevens, this conjecture is now settled in many cases. I will report on recent work to complete the proof of Jacquet's conjecture. This is joint work with Baiying Liu, Shaun Stevens, and Peng Xu.