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The local theta correspondence and functoriality

Langlands conjectured that the local theta correspondence is an instance of Langlands functoriality, e.g., it should preserve L-packets. Unfortunately, this was false. As a remedy, Adams conjectured that instead of L-packets, the local theta correspondence should preserve Arthur packets. Mœglin showed that this was "mostly" true; however, Mœglin also gave examples where the Adams conjecture was false. In this talk, we discuss a conjecture which would remedy the failure of the Adams conjecture along with some supporting evidence.