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Local Langlands Correspondence and the Internal Structure of Arthur Packets

This is a semi-expository talk in which we discuss the local Langlands correspondence (LLC), progress made on it, its connection with the tempered L-packets conjecture to the effect that every such packet has a generic element, and its enhancement in terms of Arthur packets. We also elaborate on certain global consequences and conclude by discussing Jiang's conjecture which is a generalization of the tempered L-packet conjecture to non-tempered Arthur packets and explain some results on it, jointly obtained with Baiying Liu.