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Character expansions and refined K-types

Let k be a p-adic field. Let G be the group of k-rational points of a connected reductive group defined over k. Let π be an irreducible admissible representation of G of positive depth. We find a new character expansion of the character χ_π, which depends on K-types contained in π. We also determine a G-domain where this expression is valid. This is a joint work with Fiona Murnaghan.