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Recent progress on the search for representations of G_2 distinguished by SO_4

Joint work with Nadir Matringe.

I will explain how Mackey's theory for p-adic groups allows us to identify this type of representations, and a new approach, in progress, where we use the structure of the p-adic octonions and their quaternionic subalgebras to describe the double coset space $P \backslash G_2 / SO_4$.