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Computing micro-local packets for real G_2

In the early 1990s, Jeffrey Adams, Dan Barbasch, and David Vogan introduced the notion of *micro-packets* in their book *The Langlands Classification and Irreducible Characters for Real Reductive Groups*. Defined using sophisticated sheaf-theoretic techniques, micro-packets generalize the notion of Arthur packets for real groups. In this talk, we report on joint work with L. Barchini and P. Mezo, in which we compute all of these micro-packets for the real group G_2. If time permits, we will explain how to use the Atlas of Lie Groups and Representations software to compute some of these micro-packets.