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Representations of p-adic groups near the identity

The infinite-dimensional irreducible representations of p-adic groups have an elegant geometric structure near the identity. The analytic nature of this structure, expressed in terms of the character of the representation, has been known since the 1970s, and recently progress has been made on understanding it in more concrete terms via the restriction of representations to sufficiently small compact open subgroups. In this talk, we describe the ideas and the techniques involved, focusing on geometric and combinatorial aspects. Parts of this talk are based on ongoing joint work with Ekta Tiwari (IISER Pune), with Zander Karaganis (UBC), and with David Schwein (Utah).