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This volume contains the proceedings of the AMS Special Session on Harmonic Analysis and Representations of Reductive, p -adic Groups, which was held on January 16, 2010, in San Francisco, California.

One of the original guiding philosophies of harmonic analysis on p -adic groups was Harish-Chandra's Lefschetz principle, which suggested a strong analogy with real groups. From this beginning, the subject has developed a surprising variety of tools and applications. To mention just a few, Moy-Prasad's development of Bruhat-Tits theory relates analysis to group actions on locally finite polysimplicial complexes; the Aubert-Baum-Plymen conjecture relates the local Langlands conjecture to the Baum-Connes conjecture via a geometric description of the Bernstein spectrum; the p -adic analogues of classical symmetric spaces play an essential role in classifying representations; and character sheaves, originally developed by Lusztig in the context of finite groups of Lie type, also have connections to characters of p -adic groups.

The papers in this volume present both expository and research articles on these and related topics, presenting a broad picture of the current state of the art in p -adic harmonic analysis. The concepts are liberally illustrated with examples, usually appropriate for an upper-level graduate student in representation theory or number theory. The concrete case of the two-by-two special linear group is a constant touchstone.