

Contents

Introduction	1
Comments for the reader	17
1. Exactness and intertwining	19
(1.1) Hereditary orders	19
(1.2) Hereditary orders relative to subfields	24
(1.3) Tame corestriction	28
(1.4) Adjoint maps	35
(1.5) Simple strata and intertwining	43
(1.6) The simple intersection property	46
2. The structure of simple strata	49
(2.1) Equivalence of pure strata	49
(2.2) Refinements of simple strata	51
(2.3) Split refinements	57
(2.4) Approximation of simple strata	65
(2.5) Nonsplit fundamental strata	76
(2.6) Intertwining and conjugacy	83
3. The simple characters of a simple stratum	89
(3.1) The rings of a simple stratum	89
(3.2) Characters and commutators	98
(3.3) Intertwining	104
(3.4) A nondegeneracy property	114
(3.5) Intertwining and conjugacy	116
(3.6) Change of rings	126
4. Interlude with Hecke algebras	143
(4.1) Induction and intertwining	143
(4.2) Scalar Hecke algebras	146
(4.3) Unitary structures	152
5. Simple types	157
(5.1) Heisenberg representations	158
(5.2) Extending to level zero	165
(5.3) A bound on intertwining	176
(5.4) Affine Hecke algebras and Weyl groups	177
(5.5) Intertwining and Weyl groups	181
(5.6) The Hecke algebra of a simple type	188
(5.7) Intertwining and conjugacy for simple types	195
6. Maximal types	199
(6.1) Extension by a central character	199
(6.2) Supercuspidal representations	202

7. Typical representations	207
(7.1) Some Iwahori decompositions	208
(7.2) Iwahori factorisation of a simple type	215
(7.3) Main theorems	222
(7.4) Proof of the principal lemma	231
(7.5) The strong intertwining property	234
(7.6) Jacquet functors and Hecke algebra maps	241
(7.7) Discrete series and formal degree	256
8. Atypical representations	265
(8.1) Split types	266
(8.2) Jacquet module of a split type I	275
(8.3) Jacquet module of a split type II	290
(8.4) The main theorems	297
(8.5) Classification	298
References	307
Index of notation and terminology	311