Contents

Introduction § 0 Definitions and notations	1 3
Chapter I The apartment § 1 The empty apartment § 2 The compactification of the empty apartments	14 14 21
Chapter II The o_K -group schemes in the quasi-split case § 3 The group scheme \mathfrak{T} § 4 The group schemes $\mathfrak{U}_{a,\ell}$ § 5 A smooth model of the big cell in G § 6 The group schemes \mathfrak{G}_{Ω}	31 32 34 50 61
Chapter III The building in the quasi-split case § 7 The full apartment § 8 The groups U_{Ω} and P_{Ω} § 9 The definition of the building	67 67 76 87
Chapter IV The building and its compactification § 10 The étale descent § 11 The full apartment in the general case § 12 The groups U_{Ω} and P_{Ω} in the general case § 13 The building in the general case § 14 The compactification of the building § 15 Example: SL_n	98 98 118 122 126 133 148
References Index	150 152