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Studies of Charmless Hadronic B-meson Decays at BABAR

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We report a number of recent meaurements of B-meson decays to purely hadronic final states that do not contain charm mesons. These studies are based on the very large sample of B\overline{B} events collected by the BABAR detector at SLAC's e+e- asymmetric collider B-factory when it operated on the Upsilon(4S). We include in this paper the results of: a Dalitz plot analysis of B0->KsKsKs which provides a determination of the total branching fraction and those of intermediate states; a Dalitz plot analysis of B0->K+pi-pi0 which involves the measurements of rates, differences and direct CP violation parameters of all intermediate states and with which we place constraints on the apex of the CKM unitarity triangle; inclusive branching fraction measurements of B0->pi+KsK- and of B+->K+pi0pi0; a search for B-meson decays to the axial-vector vector final state a1+ K*0 and the search for the vector vector final state B+ -> rho0 K+* and, for cases where a signal is present, we include studies of longitudinal polarization fractions; and measurements of B-meson decays to eta' rho, eta' f_0 and eta' K*where K* stands for a vector, scalar, or tensor strange meson and in which we also measure, where applicable, the charge asymmetries.

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