



## Flavor in the Era of the LHC: Reports of the CERN Working Groups

By -

Springer. Hardcover. Book Condition: New. Hardcover. 480 pages. Dimensions: 11.2in. x 8.4in. x 1.3in. a R. Fleischer, T. Hurth, M. L. Mangano Physics Department, CERN, 1211 Geneva, Switzerland In the history of quantum and particle physics, discrete system. In this past decade, the key player has been the B-meson system, and we also witnessed the appearance on symmetries and their violation have played an outstanding role. First, the assumption of the conservation of P (parity), stage of the top quark. Thanks to thee e B factories with C (charge conjugation), CP and CPT (T denotes time rever- their detectors BaBar (SLAC) and Belle (KEK), CP vio- tion is now also rmlly seen in B-meson decays, where the sal) helped theorists to restrict theoretical predictions, such 0 golden decay B JK shows CP-violating effects as in Fermis 1934 seminal paper on weak interactions. In S d at the level of 70. These effects can be translated into the 1957, the observation of P (and C) violation in weak int- angle of the unitarity triangle (UT), which characterizes actions gave a new impact and led to the conjecture that CP the KobayashiMaskawa mechanism of CP violation. S- was still a conserved symmetry. In...



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