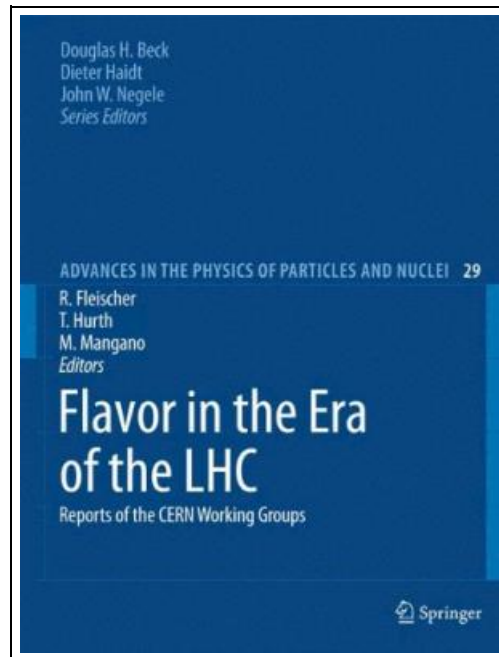


## Flavor in the Era of the LHC: Reports of the CERN Working Groups



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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 these B factories with C (charge conjugation), CP and CPT (T denotes time reversal) their detectors BaBar (SLAC) and Belle (KEK), CP violation is now also prominently seen in B-meson decays, where the sal) helped theorists to restrict theoretical predictions, such as the golden decay B<sub>s</sub> → J/ψ K shows CP-violating effects as in Fermi's 1934 seminal paper on weak interactions. In the Standard Model at the level of 70. These effects can be translated into the 1957, the observation of P (and C) violation in weak interactions - angle of the unitarity triangle (UT), which characterizes actions gave a new impact and led to the conjecture that CP the Kobayashi-Maskawa mechanism of CP violation. S<sub>1</sub> was still a conserved symmetry. In 1963, one year before several strategies to determine the other angles of the triangle, the surprising observation of CP violation in K<sub>L</sub> and K<sub>S</sub>, have been proposed and successfully applied to decays, the concept of quark flavour mixing was introduced the B-factory data. This item ships from multiple locations. Your book may arrive from Roseburg, OR, La Vergne, TN. Hardcover.



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