

Future Challenges in Non-Leptonic B Decays: Theory and Experiment



Monday 14 January 2019 - Friday 18 January 2019

Mainz Institute for Theoretical Physics, Johannes Gutenberg University

Scientific Programme

The objective of this workshop is to bring together theorists and experimentalists to devise a Strategy for the analysis and interpretation of the new data from the LHC and Belle-II on non-leptonic decays of B mesons. The one-week workshop will consist of a number of talks by both theoretical and experimental experts in the field, with sufficient time for discussions and collaborations.

The program will consist of general overview talks that review in depth the current status and challenges in the field and selected recent and ongoing works. Here both the current experimental analyses by Babar, Belle and the LHCb collaborations, as well as the future plans from LHCb and Belle-II are discussed. The topics that will be covered are:

Two-body decays (B to PP and B to VV)

CP violation and the determination of CKM angles and mixing phases

$B \rightarrow \pi\pi$, πK form factors

Dispersive analysis of the $\pi\pi$ and πK system

Three-body and multi-body decays