

## WHEPP 2015 : Working Group-II

We have planned to focus our WG discussions on few specific topics in flavour physics. It would be great to initiate a discussion with a current state of affairs (informal), later we will try to figure out if something more could be done. Hence, we need voluntary contributions from some of our participants.

The topics are the following,

- Anomalies in  $B$  decays and mixing: present and future.
- What we can learn from the study of decays  $B \rightarrow D^{(*)}\tau\nu_t au$ .
- The study of the  $B \rightarrow K^{(*)}\ell^+\ell^-$  decays.
- Future experimental sensitivities, and the expectations of study of the inclusive decay  $B \rightarrow X_s\ell^+\ell^-$ .
- What can be learned from the three body decays of B mesons to baryons and mesons (i.e  $B \rightarrow p\Lambda D^{(*)}$ ,  $B \rightarrow p\Lambda D_s$ ..etc).
- Current status of CP studies in  $B_q$ ,  $q = d, s$ , decays and mixing.
- New physics searches in lepton flavour violating decays, and in muon ( $g - 2$ ).