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# Round table on anomalies

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# Open Questions for next 5 years

- I) Will we be able to confirm (all/part/none) of the flavour anomalies? What are the prospects for further theoretical/experimental improvement on  $P_5^L$ ?
  
- II) Assuming LHCb confirms the B-flavour anomalies (or part of them) and we get an independent confirmation from Belle II, are we gonna be able to confirm if the fundamental theory that supersedes the SM:
  - a) violates LFU of gauge interactions but also includes a common NP contribution for all charged leptons or contains a new right-handed current interaction?

**Why?** This information is crucial for the next step in model building with the hope of also solving other problems, finding new anomalies and provide a physics case for future colliders guiding the field into a new era.
  
- III) In the next few years, can the community find patterns in the global data, which may lead to a list of concrete predictions that can serve as targets for searches or measurements for current and future experiments?
  
- IV) How will the tension between the experimental measurement of the muon anomalous magnetic moment, the data driven determination and the lattice calculation of the HVP contribution be resolved?