

## Installation of the meeting

On behalf of the conveners of WG1-FLAV group P. Goldenzweig (KIT), D. Marzocca (Trieste) and S. Monteil (Clermont) and  
Andreas Juttner (CERN).

# Objectives of the meeting — First day.

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- At the horizon of the next electron collider, the knowledge of the CKM profile is expected to have been deeply revisited by LHCb and Belle II/III, *e.g.* the CKM angle  $\gamma$  might be known at the sub-degree precision; as will the angle  $\beta$ . These measurements have no ( $\gamma$ ) or small ( $\beta$ ) TH uncert.
- The interpretation of the CKM profile at the horizon of the  $e^+e^-$  machine might (we hope for NP by then!) therefore hit limitations related to the SM predictions of  $CP$ -conserving observables (mixing frequencies, matrix elements  $\{V_{ub}, V_{cb}\}$ ).
- Today, we'll assess the anticipated precision needs and limitations of LQCD parameters for these observables: decay constants, bag factors, FF...and beyond.
- First target is to document these findings for the ECFA  $e^+e^-$  H/EW/top factories report destined to European Strategy Update. Next, there's a global theory effort for the next machines, *e.g.* for EWK amplitudes calc. for the FCC-ee. Maybe today, start to answer the question: is a similar org. relevant for Flavour theory?

# Objectives of the meeting — First day.

**Two-days meeting of the Flavour subWG (of ECFA WG1)**

17 Apr 2024, 14:00 → 18 Apr 2024, 13:00 Europe/Zurich

30/7-010 (CERN)

Andreas Juttner (CERN), David Marzocca (INFN Trieste), Pablo Goldenzweig (KIT - Karlsruhe Institute of Technology (DE)),  
Stephane Monteil (Université Clermont Auvergne (FR))

**Videoconference** zoom Two-days meeting of the Flavour subWG (of ECFA WG1) Join 30/7-010

**WEDNESDAY, 17 APRIL**

- 14:00** → 14:05 **Installation of the meeting** 5m  
**Speakers:** Andreas Juttner (CERN), David Marzocca (INFN Trieste), Pablo Goldenzweig (KIT - Karlsruhe Institute of Technology (DE)), Stephane Monteil (Université Clermont Auvergne (FR))
- 14:05** → 14:35 **Overview and status of where flavour stands on the lattice** 30m  
**Speaker:** Felix Benjamin Erben
- 14:35** → 15:05 **Bottlenecks of the CKM profile: New Physics in  $\Delta B = 2$  transitions** 30m  
**Speaker:** Mr Luiz Vale Silva
- 15:05** → 15:35 **LQCD bottlenecks** 30m  
**Speaker:** Matteo Di Carlo
- 15:35** → 16:05 **Outlook** 30m  
**Speaker:** Andreas Juttner (CERN)