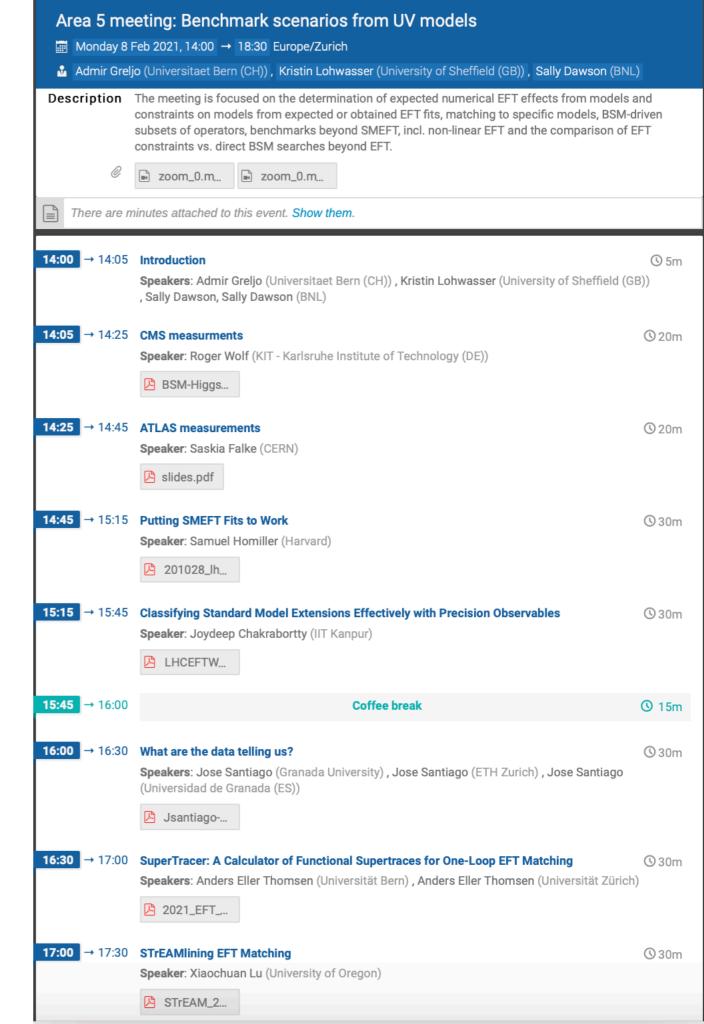
Area 5: Benchmark scenarios from UV models

## https://indico.cern.ch/event/971736/

- The kick-off meeting.
- How do we best interpret EFT analysis in explicit models?
- A UV model predicts WCs in terms of its parameters - matching.
- This implies *patterns* in the WCs that serve for model discrimination.
- The key theoretical aspect is matching the UV model onto EFT at high accuracy.
- The dawn of automated one-loop matching tools.
- Our goal is to set benchmark scenarios:
  - I. Interesting phenomenology.
  - 2. Validation of different tools.



Flavor

## Heavy flavour aspects in EFT fits Monday 12 Apr 2021, 14:00 → 18:00 Europe/Zurich Admir Greljo (Universitaet Bern (CH)), Eleni Vryonidou (University of Manchester (GB)), Gauthier Durieux (CERN), Jorge de Blas (University of Granada (ES)), Nicolas Berger (Centre National de la Recherche Scientifique (FR)) Patrick Haworth Owen (Universitaet Zuerich (CH)), Sally Dawson (BNL) Videoconferen Heavy flavour aspects in EFT fits **▶** Join Rooms **14:00** → 14:10 Introduction (10m) Latest results on b->sll decays at LHCb () 20m Speaker: Paula Alvarez Cartelle (University of Cambridge (GB)) b2sll\_LHC\_... Status and plans for EFT fits in LHCb (1) 20m Speaker: Andrea Mauri (Nikhef National institute for subatomic physics (NL)) EFT\_WG\_L... Fitting tools: SMEFT interpretation of anomalies using Flavio () 20m Speaker: Peter Stangl (University of Bern) Stangl\_21-... EFT below the electroweak scale: running, matching, and hadronic effects ( 20 m Speaker: Dr Peter Stoffer LEFT.pdf **16:10** → 16:30 **©** 20m **16:30** → 16:50 Impact of flavour on Higgs/EW/top (1) 20m Speaker: David Marzocca (INFN Trieste) Flavor for ... Top and Beauty synergies in SMEFT fits () 20m Speaker: Gudrun Hiller (Technische Universitaet Dortmund (DE)) HeavyFlav... Model-independent Bounds on the Standard Model Effective Theory from Flavour () 20m Speaker: Mauro Valli (University of California, Irvine) MV\_SMEF...

## https://indico.cern.ch/event/1011800/

- The kick-off meeting.
- Most of the 2499 dim-6 operators in SMEFT are flavourful.
- Flavor physics reaches into most dimensions. It is a key to a global fit.
- Flavor constraints important even for a restricted set of usual universal operators in top/H/EW.
- Tools and theoretical development on SMEFT, WET, RGE & matching.
- What is the LHCb input to the global SMEFT fits?
- How does LHCb handle EFT analysis?