- Status of simulation & performance studies:
- Is anything still needed in the simulation for performance / calibration studies?
- Which studies still need to be done?
- Performance comparisons
- Calibrations:
 - Which parameters are needed for calibrations?
 - Which parameters are known, and which are we not sure about?
 - What studies are needed, and what do we need to be able to do those studies (simulated data samples, personpower, ideas...)?
- Where are parameters stored and configured? Menu or COOL?
- Pileup dependence of parameters?
- Interdependence of L1Calo & LAr calibrations (e.g. filters and noise cuts): how to handle this?
- Do you need special runs for calibration, or can you use "regular" data? Which special runs are needed? When / how often?
- Which streams / triggers are needed?
- PEB: is it needed? (e.g. FEX fragments, supercells, etc?)

- List of calibration task and interdependence, graph of dependence: physics study versus "automated" tasks, what is clear: who and process

- When do you plan to install, and what infrastructure / tests are still needed before you can do it?
 - crates/shelf are there
 - PCs (for DCS)? PC for JTAG do we need/want, maybe use server that are already there? Distinguish permanent (JTAG more permanent) versus testing/diagnostics (jitter cleaner)
 - \circ $\;$ Check if general servers are there, need them for testing
 - o ...
 - DCS needs to be tested/approved
 - Need HUB (FELIX for common clock)-> for clock, need source for testing: FOX? Some source as soon it there, some sink (ROD should come with HUB)
 - Anything before?
 - Need fibres, are they Fibres installed -> find out ?
 - Need test fibres mapping? Need systematic way -> tower versus fibre
 - Complete testing and review (when? What is still missing for the final approval?) and production (could start before)
 - When do we want to put a board in? -> put production board already? -> need mechanical changes, all tests completed?
 - Ready to install conditions:
 - Testing and review: what test?
 - Read-out issues? TTC, algorithms
 - Ask Julio: Mezzanine ok for installation?
 - Mechanical changes: what still needs to be done? (Bruno needs Mezzanine thickness for FP),

- Make sure that all remote work can be done remote
- Will you have enough people present at CERN?
 - Julio and Ren-jie (Ralf?), is that enough?
 - For physical installation: will be done
 - For first test of installation?
 - For remote tests, should be enough
- How do the Covid travel restrictions / remote working affect your commissioning plans?
 - Stretch, due to limited travel
 - Permanent locate someone at CERN could be difficult from university side!
- How will you monitor and validate the new system? How to decide when new triggers are ready to be deployed for physics?
 - Bitwise simulation
 - Timining? Cannot be wrong (BCID labelled)
 - Monitor Error counter
 - Occupancy plots/ rate prediction
 - Masking possible
 - Inputs properly validation?
 - Validation of simulation
 - Should plan for some quick physics "turn-on" and efficiencies
- What can be done before beam, with cosmics, with splashes, with collisions?
 - (for Topo: compare with MUCTPi during cosmics, unbiased sample for Topo validation)
 - Cosmics -> jets / met validation
 - Hot tower tests -> automated, mapping check?
- Are special runs needed? Which ones, and when?
- Which streams / triggers are needed for commissioning?
- PEB: is it needed? (e.g. FEX fragments, supercells, etc?)
- Spares policy: how many spare modules / cables etc. will you have?
 - Spare from the beginning? Final production in one go. Quick ramp up
 - Spares for the long-run? In total XX boards (9-10, depending on FPGA purchase, FPGA are cheap at the moment), what is required? 6+3 fulfill requirement
 - Cables! No need to care

The main focus of this meeting is preparing for installation and commissioning at P1, so we have put together a list of points to consider when preparing your talk:

• STF test status and plans (focusing more on what is still needed vs. what has already been done)

• Latency measurements

• Hardware production & assembly status: are there any tests needed before launching the final production / assembly?

• For the firmware, please consider these questions prepared by Ian and presented at the Aug. 24 weekly meeting (see slide 3:

https://indico.cern.ch/event/943036/contributions/3962192/attachments/2090498/3512639/HC_Issues.pdf)