



PERLE Collaboration Bi-Weekly Meeting

Meeting Agenda:

- Towards PERLE TDR: Achille
- Overview and Plans: Walid
- June Meeting: Max





- **Collaboration:**

PERLE at Orsay (IJCLab) would be established as a Collaboration and we would continue to think how we get this launched and organized efficiently.

- A draft Collaboration Agreement under preparation at Orsay.
- A Collaboration Board meeting will be held in the spring: a list of invited persons to be defined and a date invited and to be agreed upon.
- PERLE collaboration first phase will be the drafting of a TDR.

- **Organization of a PERLE Meeting/workshop in June:**

Details in Max's Talk



- Cryomodule and dressed cavity:

- A workshop around HOM's was held at CERN in October 2019. a review of possible solutions was performed and we agreed to study the DQW HOM couplers as a candidate to equip the JLAB cavity. Work is in progress at Orsay (Ningyuan Hu).

- Need more interaction between IJCLab, CERN and Jlab in this issue.

- Need to know the readiness of Jlab if we decide to move toward a full dressed cavity.

- SPL cryomodule adaptation study is in stand-by.

- Final design of the dressed cavity is required



- **Electrons Source:**

The Alice DC gun was received at IJCLab early in 2019, and is now stored.

- A plan has to be established how to install it at Orsay. This is probably impossible without the help of Daresbury colleagues. It seems important to indeed plan for the very first part of PERLE and the right time when this begins.
- We need to list the missing equipment allowing operation of the DC Gun at low performances.
- Define the needed upgrade to reach the PERLE nominal performances later.



- **Injection line:**

- Work is ongoing at Orsay within Ben Hounsell PhD for the optimization of the injector and merger. Ben work closely with Boris and recently Christelle Bruni (IJCLab). He is also in contact with Alex for the merger issue.

 - Need more interaction to fix it.

- Booster design still an issue... A key item that still not studied.

 - could be a contribution of a new collaboration partner?



- **Magnets:**

- IJCLab and BINP are involved in the European H2020 program CREMLIN+ (kick-off on fev 2020). Collaboration will mainly be on magnet design and prototyping.

- Possibility to come back to the 3-in-1 magnet design in the LHeC White paper for PERLE Spreaders/combiners.

- We need to come back to the specifications on the magnets and define nominal demands and tolerances. Clarity is need for the next iteration with Novosibirsk.

- The layout needs to be consolidated