

QCL Operations Meeting Minutes 20201221

- Operational issues:
 - Power outages are over (the last one was earlier today). *Alex Romanenko* has started cooldown of DR1.
 - PM on chillers is postponed as the service contractor wants to perform PM at the same time as work on chillers for IB4. *Kelly Sedgwick* will let us know.
 - The double sliding door to QCL is operational again.
 - We do not have the ORC to operate DR2 after it has been commissioned. *Damon* and *Andrew* suggested that rather than moving disconnects, we can re-arrange the compressors to provide better access. Before proceeding with this, a walkthrough will be arranged with *Dave Mertz* and *Miguel Nunes* to make sure that this plan is OK.
- Plan of the experiments after DR1 is cold:
 - *Taeyoon* will perform another frequency scan in an attempt to find the qubit inside the 3D cavity
 - After *Taeyoon* is done, *Silvia* will go ahead with the neutrino oscillations experiment. Some technical details will have to be discussed before that.
- The QTI&CD group is in the process of setting up DR2 for the first experiments. Some instrumentation is on order with HEMT amplifiers being the longest lead time item (8 weeks). There is an additional delay with placing the HEMT order due to NRTL certification requirement. *Alex R* will contact Rob Bushek to speed up this process. – no news
- *Mattia* has prepared a short document describing the test requirements (what measurements to do, what sensors are needed, etc.) He and *Roman* will finalize locations of flux gates and temperature sensors.
- *Mattia* mentioned last time that having Helmholtz coils would allow us to do more measurements. *Martina Martinello* will follow up on how to make SC coils.
- Dark Photon experiment: *Sam* and *Oleg* meet with *Yuriy Pischalnikov* to discuss possible layout of the 2.6 GHz option and tuner design.
- Finally, there will be a meeting this Wednesday to discuss QCL-II layout.
- At the last meeting, QTI&CD group expressed a need to have a dedicated RF lab for development/troubleshooting of new instrumentation. There was a short discussion of this. One possibility is to clear up space at the West end of ICB. At some point we will need a space for the qubit fab facility. Perhaps, we should start thinking about IARC...
- There is no news from AD on the QCL elog. *Andrei* will follow up after holidays