NA62 - hardware

CEDAR/KTAG : Kaon identification in the un-separated beam line (kaons are ~5% of the beam)

Old gas vessel + new mechanics, optics, photo-detectors, front-end and readout

UK overall responsibility of KTAG

Birmingham responsible for front-end and readout designed, assembled, tested in PB8 here; Light boxes assembled and tested extensively here, then shipped to CERN to be installed; Complete readout chain reproduced in PB8 and used for development and tests Installation to be completed at end of September 2014

NA62 - responsibilities

- Hardware : CEDAR/KTAG see before Contribution to Trigger and DAQ tests and implementation
- Firmware : Muon Trigger, CEDAR/KTAG trigger

- Software : CEDAR/KTAG reconstruction, monitoring, Simulation; detector alignment procedure

Overall experiment RunControl system

Software coordination and responsibility for experiment offline software for simulation and event reconstruction

NA62 - analyses

Large portion of current NA48/NA62 analyses done here:

Search for heavy neutrinos with K-> $\mu\nu$ Search for heavy neutrinos with K-> $\pi\mu\mu$ K-> e $\nu\gamma$ branching ration and form factors Dark photons Pion dalitz form factor LFV, LNV K-> $\pi\mu\mu$, πee , $\pi\mu e$

NA62 - longer term plans

Maintain responsibility of maintenance and operation of the KTAG readout and trigger

Keep current responsibilities of CEDAR simulation and reconstruction software

Tonino's software coordination RunControl responsibility linked to Nicolas Evgueni's Grant linked to Muon responsibilities

Keep leading role in analyses of rare and forbidden decays