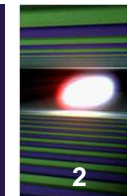


WP76 input

Experimental hutch brainstorming meeting

C.Youngman for WP76
9-Dec-2011

WP76 Electronics room content



- Content of 10.1.2011 hutch brainstorming WP76 slides remain useful
- Guesstimate of DAQ and control racks (220cm x 19") per experiment
 - 1 rack control (Beckhoff, etc.)
 - 1 ½ rack motor amplifiers, power supplies, pump controllers... [warm]
 - 1 rack DAQ crates (TB, sequencers, digitizers...) [noisy, warm]
 - 1 rack IP patch panel and local switches
 - ½ rack CPUs for control room and associated kvms... [noisy]
 - ? contingency
- Other racks which should not be forgotten
 - Rack space for sample injection systems (Joachim)
 - Rack space for cooling of 2D detectors (Markus)
 - ? unknown
- Comments w.r.t. guesstimates
 - Guesstimate numbers are similar to ESRF, Diamond rack rooms
 - Minimum cable length - DAQ sequencers 10m (could be longer, realistic tests can be done at Petra3)
 - Probably air cooling is sufficient
 - Front and back access required
- Next steps
 - Improving estimate by detailing SPB experiment. Expect ~90% understanding Jan.2012. Then check other expt. CDRs.