

# Thursday, 06/25/2015

## wire scanner design meeting

**Date:** week 25+1, Thursday, 25.06.2015 09:56

### Present

1. Ray, Jose, Dmitry, Pierre-Jean, Emiliano, Luca, William, Jonathan, Alexander

### Agenda:

2. update of choice of location, Paolo
3. update on motor supplier investigations, Dmitry
4. update of electronics design status, Jonathan
5. planning for mechanical test on prototype II, William
6. planning of RF measurements and prototype II usage, Emiliano
7. AOB
  1. resolver break
  2. cabling motor
  3. exchange of scanner in the SPS
  4. RF measurements

### Subjects:

1. AOB
  1. exchange of scanner in the SPS due to observed break of the disc
    1. two options discussed
      1. new holder
      2. metal disc
        1. holes now 10 um diameter, reflectivity at 1310 nm about 0.8
    2. both option seams not be possible to implement during the technical stop in week 36
  2. update of choice of location, Paolo
    1. section 11L1 foreseen for installation
    2. minimum needed: corrector magnet and multi-pole magnet displacement
    3. agreements needed:
      1. OP: OK
      2. ABP: OK
      3. VFC: pending
      4. Integration: pending
    4. for installation overhead crane needed
      1. operated by transport
      2. regarded as a minor overhead
    5. dose to personal
      1. speed up of operation by every second screw used on ws flange
  3. update on motor supplier investigations, Dmitry
    1. fork length 182.5 and 150 mm
    2. motor load inertia 8E-4
    3. motor selection>, 3 companies interested
      1. vacuum specs included in survey
      2. remarks from discussion with ETEL
        1. torque limited demagnetization of samarium cobalt magnet

3. It was accepted to have a safety margin of 50 % in torque in reference to the present knowledge of the maximum torque needed
4. machining the air gap is regarded as one option to avoid a thinning of the step chamber walls
  1. influence should be negligible
4. test bench for new motor
  1. motor support needed fitting to the existing test bench assembly for two motors
4. update of electronics design status, Jonathan
  1. explained schedules
  2. test foreseen with beam end 2015
5. planning for mechanical test on prototype II, William
  1. a need of 8 week test for the mechanics is presented with the use of electronics lab
6. planning of RF measurements and prototype II usage, Emiliano
  1. presentation

**Action:**

1. Paolo, William
    1. VSC, magnet PSB (Tomasini) and integration (Muttoni) to be contacted
  2. Dmitry
    1. electrical specification to be provided
  3. Jonathan
    1. will check the electrical characterization
  4. Bernd
    1. wire mounting
    2. wire type
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