

Minutes of the 3rd PAF working group meeting

18. July 2005

***** FINAL VERSION *****

Participants:

M. Benedikt, R. Garoby (convener), R. Ostojic, W. Scandale.

1) Competences in PAF (R. Garoby)

All CERN accelerators are well covered with a tendency towards the larger machines SPS and LHC. Very little experience is available for FFAG and RCS machines where external advisors will be needed. The various technology aspects (SC magnets, normal magnets, etc.) are relatively well covered and there is sufficient in-house experience.

2) Subjects for future meetings and work organisation (R. Garoby)

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| - Status of magnets in existing CERN machines (PSB/PS/SPS) | K.H. Mess (15/8) |
| - Summary of HIP working group | M. Benedikt |
| - Motivations for 1 TeV LHC injector | F. Ruggiero |
| - PSI experience with 1 MW operation | ? PSI |
| - MMW targets | ? P. Sievers |
| - CERN site potential for future machines | ? M. Poehler |

R. Garoby will contact speakers for confirmation and propose dates for the presentations.

W. Scandale proposed an external review of the status of injector magnets. This idea was supported by the persons present. It will be further examined during the next meeting in the presence of more PAF members and after the presentation of K.H. Mess on the subject.

Work inside PAF will have to be distributed taking into account the activities of members in other projects and initiatives.

The development of the high energy scenario ($> \sim 30\text{GeV}$ i.e. SPS upgrade or/and replacements, etc.) is mostly driven by the need of the LHC upgrade and is, therefore, strongly connected to work done in HHH.

On the other hand, low-energy schemes are of primary concern for most other communities and are then naturally subjects of investigation inside EURISOL and for neutrino physics (BENE).

3) LUMI-05 Workshop (W. Scandale)

Walter presented the [programme](#) for the LUMI-05 workshop in Arcidosso. Talks in the mornings will be complemented with working group sessions in the afternoons. The two main issues are IR design and high energy injector upgrade.

One of the key questions for IR upgrade is the basic choice of dipole or quadrupole first.

Concerning the high-energy injector upgrade one of the main arguments for 1 TeV is the gain in operational margin and stability of the LHC. This is expected to have also a major impact on the turn around time. R&D on SC magnets for such a 1 TeV injector upgrade is estimated to 8-10 years and will have to be decided soon.

4) Miscellaneous:

- The PAF web site will be made publicly available.
- Roland will try to find dates for lined meetings with POFPA.
- The next meeting will take place on 15th August in 864-1-002 (16:00).

Minutes by M. Benedikt, 20.07.2005