

Minutes, PhysCom, eZuce, 17 August 2017, 10:00

Presence: Alaa Dbeyssi, Albrecht Gillitzer, Johan Messchendorp, Tord Johansson, Klaus Peters, Karin Schoenning

Excused: Frank Nerling, Lars Schmitt, Tobias Stockmanns

Action points are in **red**.

Day-one and phase-one discussion

For the upcoming period, there will be various internal and external discussions on the day-one realization of PANDA. The JSC requested a detailed installation plan for day-one activities of PANDA, which have been reported to the FAIR council as well. These discussions will be driven by financial constraints and technical possibilities (cheaper?), and to a large extent politically driven. The decision is to keep the day-one discussions separated from the phase-one physics discussions. For “phase-one” discussions, we will continue on focusing towards defining a coherent program with the constraints of the “phase-one” setup and FAIR conditions. We follow the milestones we defined earlier, e.g. with a first paper draft of the whole program at the end of the year. A document for “phase-one” ambitions is in preparation. Karin has setup a overleaf website for collaborative writing:

<https://www.overleaf.com/10562309zkfbfdnqprv#/39467926/>

All physics convenors are asked to deliver by the end of September a first draft of a piece related to the “phase-one” physics ambitions of their subgroup. In the course of time, this will be further iterated with the aim to write up a coherent piece during the December meeting.

The “day-one” discussions are a bit more vague, since it will evolve in the course of time (“moving target”). However, in preparation, **the convenors are asked to formulate their minimum setup that still will give a program with a reasonable physics outcome for day-one.** This information is needed for the upcoming internal discussions. Note that for a large part, this already has been formulated by the scrutiny group. Some updates might be useful here.

TAG communication

From the TAG meeting during last CM, it was clear that there is a lack of information from the side of the TAG on the present status and ambitions of PANDA. The decision was to start with a serious information exchange. Sinead Ryan has obtained the information from JM about the various subgroup convenors and, what we think, the links with the various TAG members. She will pick this up and further communicate this with the TAG. The convenors will be contacted directly by the corresponding TAG member with a request to provide information about the ongoing activities etc.. There was a recent miscommunication about the worries of TAG members on reaching deadlines

concerning review documents. At present, it is not clear when the review of FAIR will take place.

At the end of this month, JM will have a phone meeting with Sinead in which the following items will be brought up: 1) role of TAG in “phase-one” document: the proposal is to get them involved in writing of introductory and in the reviewing process; 2) PANDA lecture week: suggestions for evening speakers, preferably from TAG group.

Novosibirsk meeting

Various convenors will not be present during that week. From today's perspective, there might also be less talks in the parallel session than usual. For example, the EMP group only has one 10 minutes talk scheduled so far. The proposal is to move the talk to the hyperon session (second part).

Reminder to all convenors (forgot to mention it during the meeting): please update the tables on the status of the ongoing (phase-one) physics analyses:

<https://panda-wiki.gsi.de/foswiki/bin/view/PhysicsCmt/PhysicsAnalysisActivities>

https://docs.google.com/spreadsheets/d/1x_QaM0f9eUSp622i0BaHCR4PNGBRpe3pzZk8Mt8Orcw/edit#gid=0

December lecture week

A skeleton of the lecture week has been drafted: 3 morning physics lectures (two topics each 90 minutes with enough time for questions etc.), 2 morning sessions on electronics/hardware, in the afternoon software workshop, and 4 evening lectures about hot topic in the field or outside. For the physics lectures, the following topics are proposed:

1) Challenges in the field of (non-perturbative) QCD: open questions, theoretical frameworks, ...

Lecturers: Sinead Ryan (confirmed)

2) Hidden/open-charm, and light-meson spectroscopy: charm(onium)(like) systems, glueballs, hybrids, ...

Candidate lecturers: Klaus Peters, Frank Nerling, Klaus Goetzen

3) Baryon(-like) spectroscopy: from strange baryons to exotic pentaquarks

Candidate lecturers: Ulrike Thomas

4) Structure of the nucleon: EMFFs, GPDs, and all that...

Candidate lecturers: Frank Maas, Alaa Dbessy

5) Hyperon dynamics: strangeness production, spin degrees of freedom in hyperon decays, CP tests, ...

Candidate lecturer: Karin Schoenning

6) Hadrons in nuclei: (anti)hyperon potentials, hypernuclei and atoms, charm in-medium, ...

Candidate lecturers: Josef Pochodzalla, Albrecht Gillitzer

The lecturers of the topics (except number 1) will be given by PANDA people. The evening lectures could be given by TAG members. This will be discussed with Ryan (see above).

A.O.B.

Karin reminded us on the proposal for the new website. **She will distribute (done) the corresponding slides to the PhysCom and she strongly welcomes suggestions and input from everyone!**

JM, 17 August 2017