



Title: Meeting of the WP3 Detectors Subcommittee

Monday 14.12.2020 at 14:00-17:00 CET via videoconference

Chair: Victor Bodnarchuk, JINR

Participants:

Subcommittee members:

Victor Bodnarchuk, JINR // WP3 PIK

Otilia Culicov, JINR // WP3 PIK

Evgeny Altynbayev, PNPI // WP3 PIK

Günter Kemmerling, FC Juelich // WP3 PIK

Gregor Nowak, HZG // WP3 PIK

Richard Hall-Wilton, ESS // WP3 PIK

Bruno Guérard, ILL // WP3 PIK

Christian J. Schmidt, GSI // WP3 PIK

PNPI speakers and attendees:

Sergey Grigoriev, NRC KI PNPI // WP3 PIK

Vladimir Voronin, NRC KI PNPI // WP3 PIK

Invited guests:

Vyacheslav Em, NRC “Kurchatov Institute” // WP3 PIK

Excused

Brief Description:

The CREMLINplus kick-off meeting of the Detectors Subcommittee of WP3 was held on the 14 December 2020 via videoconference with the participation of the subcommittee members as well as NRC “Kurchatov Institute” and NRC KI PNPI scientists as speakers.

In the introductory talk Sergey Grigoriev presented the objective of the work package WP3 of CREMLINplus aiming to strengthen the scientific and technical cooperation between PIK and European neutron research infrastructures in mutual interests of European and Russian research. He also explained the scope of activities expected from the scientists working under the umbrella of CREMLINplus project. The general goal of the technical subcommittees within WP3 is to supplement the recommendations from the instrument subcommittees.

Deputy Director for Science Vladimir Voronin presented the current status of the PIK reactor, its instrumentation and commissioning time schedule. PIK reactor will be one of the most powerful neutron sources in the world with the power of 100 MW, operational cycle of ~30 day and a large number of experimental channels. Reactor PIK is under commissioning which started in 2019, and now it is in the second stage of its commissioning which includes reaching 10 MW power. The reactor should attain megawatts power in December 2020 and five “first-day” stations are under construction in the





reactor hall. Other neutron instruments will be realized in the framework of the national program of the development of neutron and synchrotron research in Russia, financially approved for the period 2020-2027.

PNPI scientist Evgeny Altynbayev presented the current status and future plans of the Neutron Detectors in the Russian instrumental program at the reactor PIK. Vyacheslav Em (an external advisor from NRC KI) together with Sergey Grigoriev told about the development of neutron instrumentation at PIK beyond 2025.

Each presentation followed a 20-min discussion.

During the closed session the Subcommittee members discussed the development of the detectors at the reactor PIK on the basis on the information provided by PNPI staff during their presentations.

Materials from the kick-off detectors subcommittee meeting, including the agenda, available slides from the talks, and the minutes of the meeting can be found on PNPI website [<https://oiks.pnpi.spb.ru/cremlinplus-pnpi>].

