

Title: Meeting of the WP3 Spectroscopy Subcommittee

Wednesday-Thursday 11.11.2020-12.11.2020 at 15:00-17:30 CET via videoconference

Chair: Karin Schmalzl, Juelich // WP3 PIK

Participants:

Subcommittee members:

Karin Schmalzl, ILL, FZ Juelich // WP3 PIK

Evgeny Klementiev, Baltic Federal University

Jörg Voigt, FZ Juelich // WP3 PIK

Jiri Kulda, ILL // WP3 PIK

Michael Monkenbusch, FZ Juelich // WP3 PIK

Margarita Russina, HZB

Victoria Garcia Sakai, UKRI STFC

Wiebke Lohstroh, TUM // WP3 PIK

PNPI speakers and attendees:

Sergey Grigoriev, NRC KI PNPI // WP3 PIK

Vladimir Voronin, NRC KI PNPI // WP3 PIK

Igor Zobkalo, NRC KI PNPI // WP3 PIK

Yuri Kirienko, NRC KI PNPI

Igor Golosovskii, NRC KI PNPI

Spectrina-2020 workshop participants

Invited guests:

Alexander Belushkin, JINR// WP3 PIK

Excused

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Brief Description:

The CREMLINplus kick-off meeting of the WP3 Neutron Spectroscopy Subcommittee was conducted for two days – 11 and 12 November 2020 via videoconference.

The meeting was attended by European and Russian participants, among which there were members of the Spectroscopy Subcommittee, scientists and engineers involved in constructing neutrons spectrometers for the PIK reactor, instrument responsables and technicians, scientific advisers – employees of NRC KI PNPI and external advisers. The presentations were open to participants of the Spectrina-2020 workshop.

The aim of the kick-off meeting was to present and explain the overall work plan and structure of the project as well as to clarify roles and align expectations.

In an introductory speech, NRC KI PNPI's Deputy Director for International Activity, Sergey Grigoriev, explained the objectives, tasks, and structure of WP3 and told about the expectations of NRC KI PNPI from the Spectroscopy Subcommittee. The Subcommittee shall provide specific recommendations on construction and layout of instruments, to be complemented by recommendations from technical subcommittees on moderators, neutron optics, detectors and sample environment.

NRC KI PNPI's Deputy Director for Science Vladimir Voronin presented an update on the status of the PIK reactor and its instrumentation, general floor plan.

PNPI scientist Igor Zobkalo presented a report on the present design of a thermal three-axis spectrometer (TAS) IN1, cold three-axis spectrometer IN2, polarized thermal spectrometer IN3; Sergey Grigoriev (PNPI) presented a report on the design of the neutron spin-echo spectrometer (NSE), and Evgeny Klementiev (external advisor, Baltic Federal University) presented the design report on another spectroscopy instrument: time-of-flight spectrometer (TOF) IN4.

The subcommittee appreciated the presentations given by the PNPI scientists.

Members of the Spectroscopy Subcommittee were encouraged to see the detailed technical design and specification report of the TOF spectrometer. However, it was noted that less progress has been made in the design of the TAS instruments.

The detailed information provided by PNPI scientists was discussed in two closed sessions open to the spectroscopy subcommittee members.

Members of the subcommittee encouraged all the scientists and engineers involved in constructing the neutron spectrometers for PIK to contact the subcommittee members and/or the instrument teams at partner neutron sources whenever they feel the need to discuss the projects and any technical issues.

Specific recommendations for each instrument can be found in the minutes of the meeting.

Materials from the kick-off Spectroscopy 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>].

