

## FLNP proposal on opening of the two new themes

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### Abstract

1) Within the framework of the development of JINR's strategic long-range plan FLNP works on the development of the conceptual design of the new advanced neutron source, which have to replace IBR-2 after finishing its lifetime in mid-thirties of the current century. At the same time an international working group was established to elaborate the ambitious scientific program for the new source. In order to regulate this activity FLNP proposes to open the new theme with the conditional name **“Development of the critical design report for the new Dubna Neutron Source (DNS-IV)”**. In case of PAC and following Scientific Council approval of the FLNP proposal all necessary documents will be presented at the 50th meeting of the PAC for Condensed Matter Physics.

2) The joint activity of the Jagiellonian University in Kraków (Poland) and JINR resulted in signature the Agreement between JU and JINR on establishing JINR research laboratory for structural research of macromolecules and new materials at the National Synchrotron Radiation Centre SOLARIS. According to the former PAC recommendations we are continuing the analysis of the feasibility of the technical design and parameters required by future experiments. To regulate this activity at JINR FLNP, as the contact JINR Laboratory in this process, proposes to open the new theme with the conditional name **“Construction of the laboratory for structural research of macromolecules and new materials at the National Synchrotron Radiation Centre SOLARIS”**. In case of PAC and following Scientific Council approval of the FLNP proposal all necessary documents will be presented at the 50th meeting of the PAC for Condensed Matter Physics.