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Magnet group activities at ALBA

In this contribution we will describe the activities of the Magnets and Insertion Devices group at ALBA since 2022 and the plans for the future. The ALBA synchrotron light source is undergoing a significant upgrade to transition into a fourth-generation facility by 2031, with a key goal of reducing its emittance by at least a factor of 20. The Magnets group at ALBA is responsible for the design, procurement, and validation/characterization of the magnets for the new accelerator, and is currently working on the production of the first prototypes. We will discuss the technical requirements, challenges, and initial strategies for magnet characterization.

Additionally, we will present recent upgrades and improvements to ALBA's magnetic measurements laboratory, along with upcoming enhancements. We will also report on the magnetic measurements performed for external clients, including companies and research institutions.

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