

Last developments at ALBA magnetic measurements laboratory

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ALBA is a third generation Synchrotron Light Source operating close to Barcelona since 2012. A magnetic measurements laboratory associated to the facility since its very early stages has been active for the last 20 years. In the first part of the present contribution the different instruments available at the laboratory are described, and a brief overview of the measurement campaigns carried out along its 20 years of history is presented. In the second part of the contribution we provide a more detailed description of our approach to Hall probe measurements, with an explanation of the methods and ancillary equipment that we have developed along the years in order to improve the accuracy of our system. In the last part of the contribution we present a new concept of Hall probe bench devoted to the measurement of closed structures. The in-house design and building of a prototype for such a bench is described, together with its mechanical and magnetic characterization. The first results obtained with this bench will also be discussed.

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