Contribution ID: **2668** Contribution code: **WEPM099** Type: **Poster Presentation**

Characterization of in-vacuum wiggler for FAXTOR beamline at alba

Wednesday, 10 May 2023 16:30 (2 hours)

The insertion device for FAXTOR, the new hard XR tomography beamline at ALBA, is a 54mm-period in-vacuum wiggler. The device is of hybrid PM-type, consists of 11 poles for a total magnetic length of 362mm, and it will operate at a minimum mechanical gap of 5mm. The device has been manufactured by AVS Company. During the manufacturing process, the field quality of each individual magnetic arrays was checked and adjusted, but it was not possible to verify the magnetic performance of the whole device once the arrays were integrated on the final support structure. This last step has been carried out at ALBA magnetic measurements laboratory upon the delivery of the device, using our Hall probe bench for closed structures and a flipping coil bench. In this paper we present the results of the magnetic characterization and the final adjustments that have been implemented, as well as the integration of the device into ALBA Storage Ring.

Funding Agency

Footnotes

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Session Classification: Wednesday Poster Session

Track Classification: MC7: Accelerator Technology and Sustainability: MC7.T15: Undulators and Wigglers