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Status and Operation of the ALBA RF System

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ALBA is a 3 GeV, 400 mA, 3rd generation Synchrotron Light Source in Barcelona, Spain. The RF System provides up to 3.6 MV of accelerating voltage and restore up to 540 kW of power to the electron beam. For that, six RF plants, working at 500 MHz are in operation. A RF plant includes a Dampy cavity (HOM damped) which is feed by two 80 kW IOT amplifiers combined via CaCo; a cavity combiner. This presentation describes the performance of the RF systems, including reliability statistics during 2015 and 2016. Also, the installation of five L3 4444C IOT's will be presented, comparing their performance and reliability to the Thales TH-794 IOT's that are also in use at ALBA.

Summary

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