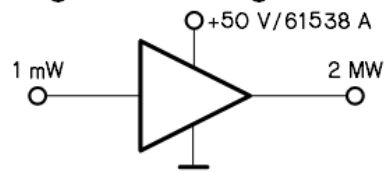


## Twelfth Continuous Wave and High Average Power RF Workshop



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Contribution ID: 11

Type: **Oral presentation 20' + 5'**

### Status and Operation of the ALBA RF System and developments for ALBA-II

*Monday 12 September 2022 09:25 (25 minutes)*

ALBA is a 3rd generation 3 GeV synchrotron light source located in Barcelona, Spain. The RF system of the Storage Ring provides 3 MV of accelerating voltage with six 500 MHz HOM-damped cavities fed by two 80 kW IOTs each. The Booster RF system comprises a 50 kW SSPA and a 5 cell PETRA cavity. This presentation describes the performance of these systems and the upgrades performed in the last years. The future plans for the ALBA-II accelerator upgrade towards 4th generation are also presented, including the test results on the normal conducting active 3rd harmonic cavity prototype as well as the performance of the 1.5 GHz Digital LLRF and a 5 kW 1.5 GHz GaN SSPA prototype.

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