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Calculations of HOMs of a Third Harmonic Normal Conducting Cavity

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ALBA is a third generation synchrotron light source of 3GeV, located at 20km from Barcelona, Spain. To a user of synchrotron radiation, the beam lifetime and beams stability is one of the most important aspects of synchrotron light. A particularly attractive option for improving the lifetime and reduce beam instabilities is to lengthen the electron bunches using a harmonic cavity. This approach may be adopted to increase the beam lifetime at ALBA. In this presentation the results of the electromagnetic simulations of a temperature nose cone HOM damped cavity tuned at 1500 MHz (third harmonic) are presented.

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