

# ICFA Mini Workshop on Higher Order Modes in Superconducting Cavities (HOMSC2018)

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## **BESSY VSR project overview**

*Monday, 1 October 2018 11:00 (30 minutes)*

HZB is pursuing a superconducting upgrade of the BESSY II synchrotron ring in order to allow the machine to simultaneously store both long (15ps) and short (1.7ps) bunches. To achieve this goal higher harmonic cavities (1.5GHz and 1.75GHz) to the 500MHz normal conducting cavities operated in BESSY must be installed. In standard BESSY VSR operation a 300mA beam will be combined with a 20MV/m. Therefore the selection of the proper cavity technology and the implementation of high efficient HOM damping structures becomes a key aspect on the success of the project.

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