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BESSY VSR - Upgrade for BESSY II

Summary

The major upgrade of the BESSY II synchrotron light source aims at developing a Variable pulse length Storage Ring - BESSY-VSR, by introducing strongly focusing superconducting cavities in order to manipulate the longitudinal phase space. This will bring up a voltage beating pattern and allows to store simultaneously long and short electron bunches. In the regular user optics rms bunch lengths of \approx 15 ps and down to 1.7 ps are expected for high current operation. Bunches as short as 300 fs can be provided by using a low- α optics.

This poster will give a short overview of the concept and realization of BESSY VSR.

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