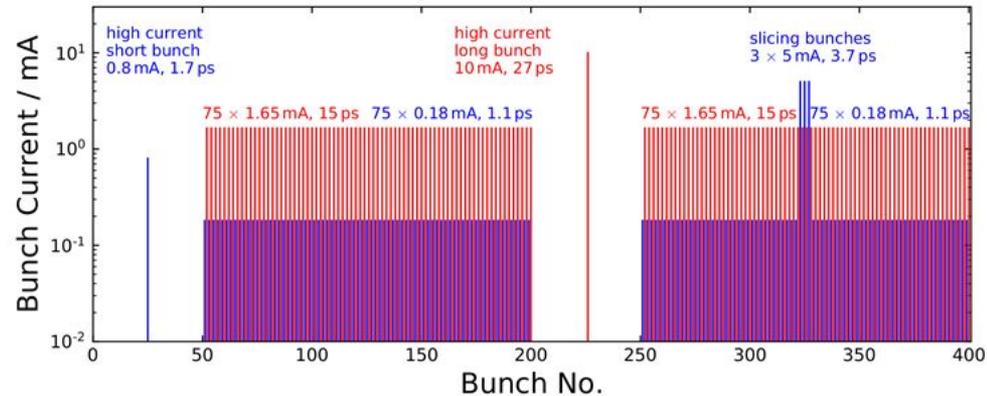
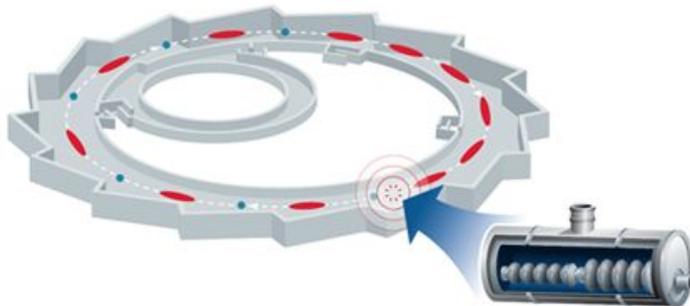


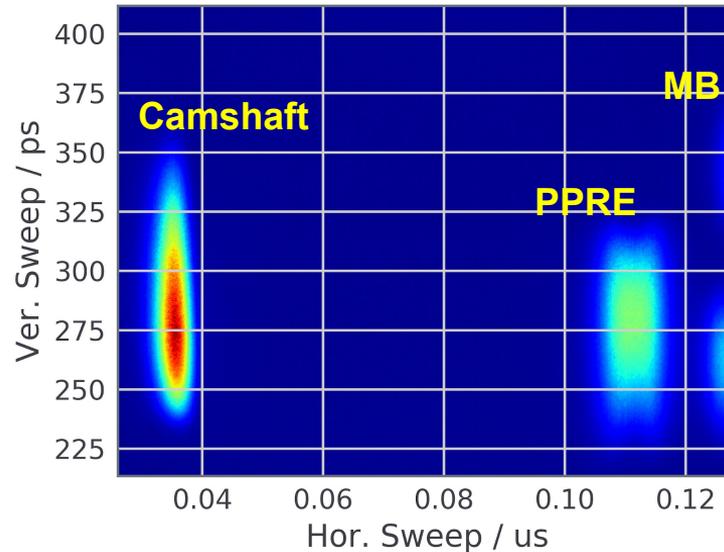
Bunch-Resolved 2D Measurements at BESSY II

Marten Koopmans et al.

- BESSY VSR: Complex filling pattern with up to 5 different bunch types with completely different characteristics (current, length, size)
- Bunch resolved / high resolution 2D measurements required
- Interference pattern in the vertical beam direction measured with our streak camera (see poster)
- Simultaneous measurement of size and turn-by-turn oscillation of a specific excited bunch (PPRE, see poster for details)



- Pulse picking by resonant excitation (PPRE) bunch



- Idea: Compare the photon distribution in both dimension on the streak camera in single shot images and get information on beam movement

- Beam size and motion at different excitation amplitudes
- Comparison with BBFB signal

