

3rd Mini-Workshop on Longitudinal Diagnostics

(Speed Poster) Session 2: Time Domain Diagnostics & Detectors

“Schottky Diode Detectors at KIT” by Johannes Steinmann

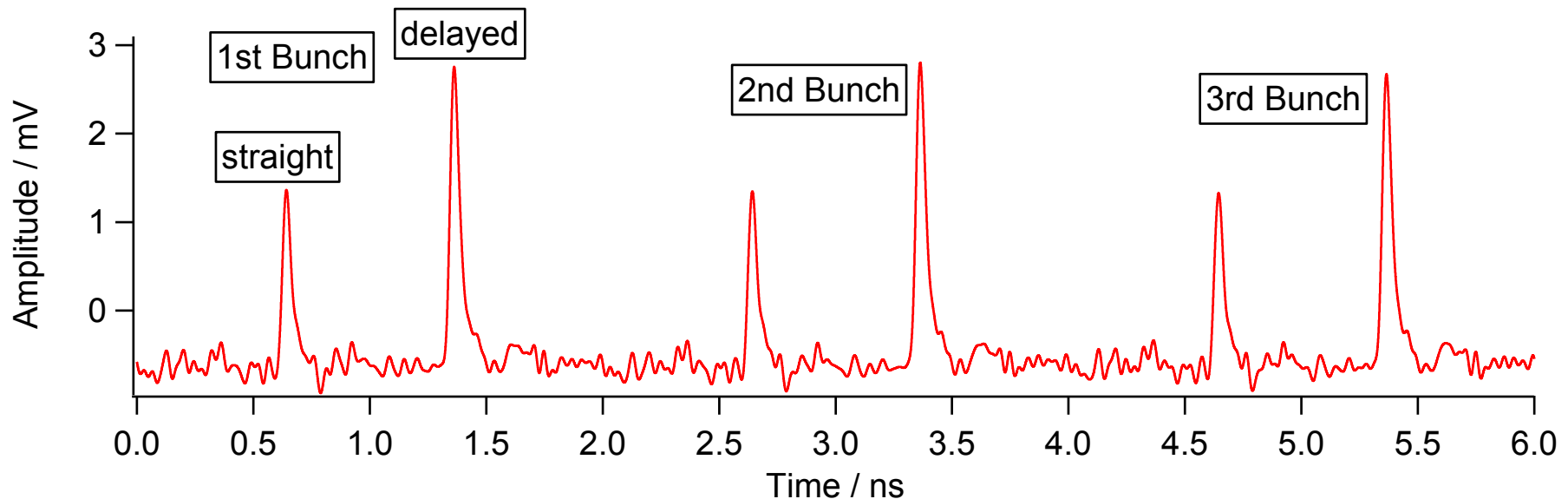
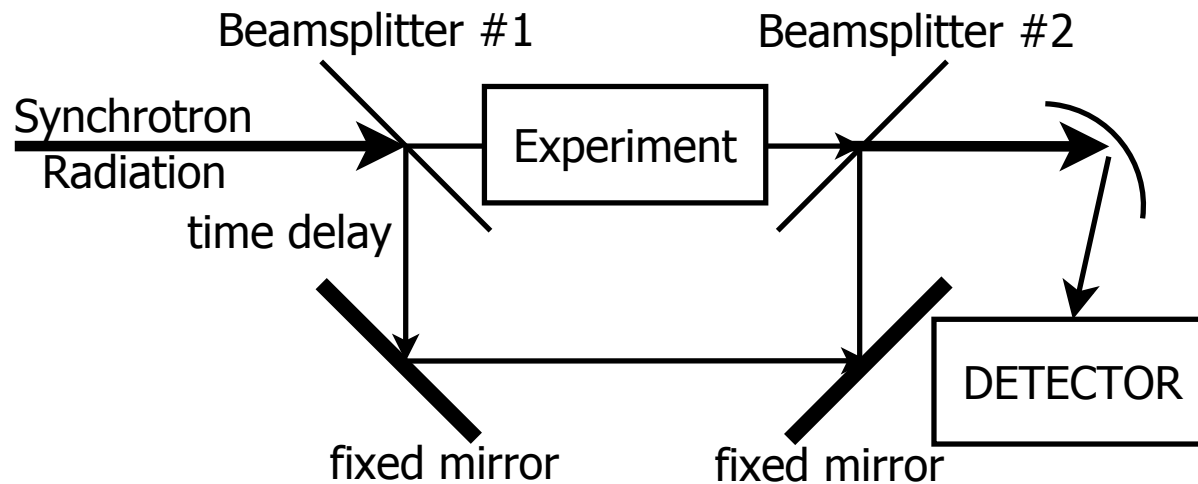
Laboratory for applications of synchrotron radiation (LAS)



Who is Johannes

- PhD Student at ANKA
 - Engineering background
 - Master thesis on generation and observation of ps-pulses
- Working on detection and controlling of micro-bunching instabilities
- Detection includes fast THz detectors
- Use of Schottky diode detectors for time domain and spectroscopy

Pseudo-balanced detection with a single detector



Spectral analysis with narrow band detectors

- Continuous readout (4GB/s) made possible by KAPTURE board
- At the moment, up to 4 detectors can be recorded simultaneously
- Narrow band band-pass filters will arrive at KIT in summer

