Miriam Brosi - ANKA

- Studied Physics at Karlsruhe Institute of Technology
- Bachelor thesis 2011 *Gainpattern of a LOPES 3D Antenna* (Prof. J. Blümer (IEKP), astro particle physics)
- Master thesis 2014 *A Study of Bursting Behavior of Synchrotron Radiation in the THz Regime* (Prof. A.-S. Müller (LAS))
- PhD since Jan. 2015 at ANKA (Prof. A.-S. Müller (LAS / ANKA))

*Systematic Studies of Multi-Bunch Longitudinal Beam Dynamics in the Generation of Coherent THz Radiation*

- Short electron bunches with (rms) bunch length down to 2 ps
  → Coherent synchrotron radiation in the THz range
- Micro-bunching instability
- Multi-bunch effects

- Multi-bunch DAQ (KAPTURE [1])
- Fast THz detectors
  (e.g. zero biased schottky diodes)