Programme Matter and Technologies



Field Detection Using Carrier Suppression in the Attosecond Regime for CW Signals

Increasing the Resolution of the LLRF System



The Carrier Suppression Interferometer



Results and Limitations



reduction of 40dB, precision increases by factor 100!



Examples for component characterization



Application and ongoing work





Goal: Apply Carrier Suppression System at CMTB (CW test facility @ DESY)

- find/design electronical RF components fitting to the low noise and high power conditions
- design appropriate packaging for rough accelerator environment
- design very low noise supply voltage distribution for controlling the active devices
- implement automatic carrier suppression

First commisioning planned by end of 2019!



