

Beam-dust interactions and dust release mechanisms in particle accelerators

- PHD project with TE-MPE-CB under supervision of Dr. Christoph Wiesner and Prof. Dr. Podlech (Goethe Universität Frankfurt)
- Interaction of dust grains with the proton beam perturb the operation of the LHC and other particle accelerators
- Valuable time is lost due to **premature beam dumps and quenches**
- Goal: Understand the **release mechanism** of dust grains and their **interaction** with the beam
- First Step: dedicated experiment at the LHC (planned for may)

