

# Infospace integration in pixel supervisor

Malte Mrowietz

# Unclearity of states of pixel control software instances

- In pixel data acquisition there are various instances controlling the data taking
- The Pixelsupervisor controls the Front-End Devices(FEDs) that read out pixel data
- Before, the state of the FED software instances was only known at configuration of the FED, or when a state change was instigated by the pixel supervisor (NO PASSIVE MONITORING/ALARMS)
- The work described on the following slides is intended to solve this issue
- The software framework in which the pixel software is written is called XDAQ
- All XDAQ applications/class instances are controlled via webserver

# Previous work

- Integrate infospaces in pixel supervisor
- Infospaces are XDAQ container objects that are known outside of class instances
- Infospaces content can be easily read out/displayed in XDAQ webserver using flashlists
  - Can be used to easily monitor the Finite State Machine state (configured,running,paused,in error etc.)

# Plan

- Rewrite FEDSupervisor to new architecture that naturally includes info spaces
- Achieve universality of FSM commands in FEDSupervisor:
  - Clean up: remove non-used functions from code
  - Simplify grown code