

# Forward Endcap Status

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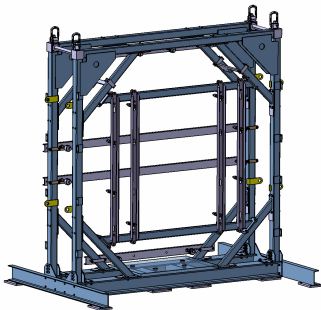
**RUB**



- Forward endcap support structure
  - Jülich preassembly
  - Transport to GSI
- Subunit series manufacturing
  - Very close to start of production
- Paper on Light Pulser System

# Forward endcap support structure

- Massive steel support frame
  - Supporting forward endcap during assembly in Jülich
  - Supporting forward endcap during beam tests in Jülich
  - Serves as a transportation support on the way to GSI
  - Parts of it will serve during insertion into  $\overline{\text{PANDA}}$  magnet



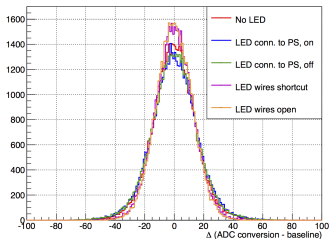
# Forward endcap support structure



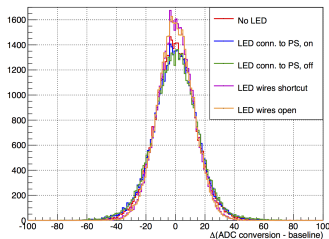
# Subunit series manufacturing

- VPTT subunits: all parts in stock, concept of manufacturing finalized
- Recovery LED introduction successful in terms of mechanics and noise entry
- Just wait for final assignment of VPTTs to crystals
  - Placement of crystals according to radiation hardness vs. radiation exposure in FWEC
  - Consider VPTT HV-gain relation (4-unit sub groups)
  - Gain vs. LY matching

VPTT0, HI Gain, shortest shaping

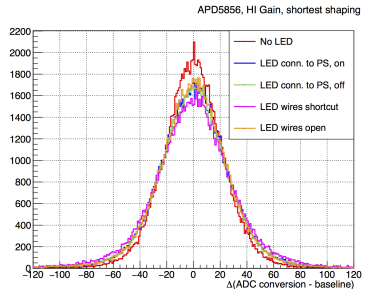
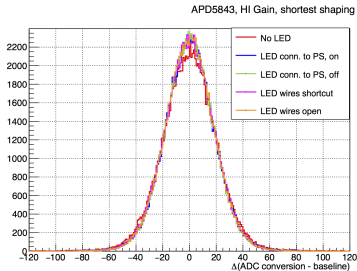


VPTT1, HI Gain, shortest shaping



# Subunit series manufacturing

- APD subunits: preamps ordered, APD delivery?
- Recovery LED introduction still unclear: noise issues
- Improvement by capacitively shorting noise at LED, but still too much noise



### Forward Endcap Status

# Summary

- Real hardware work done: Steel support frame in Jülich waiting to grab the  $\overline{\text{PANDA}}$  forward endcap
- We are very close to the start of subunit series manufacturing (VPTT)
  - Just wait for final sorting instructions
- Some tests to be done concerning recovery-LED mounting on APD subunits
- Looking forward to building the forward endcap (correctly!)

