

# ALPS Project Status & Plans for this EYETS

Electronics rad qualification:  
GEFE FPGA qualification



BE-BI-QP

Manoel Barros Marin  
(25/01/2017)

# Status & Outlook

- **Status**

- All COST components except the FPGA successfully qualified at PSI up to 750 Gy of TID
- The GEFE was successfully tested at CHARM:
  - The communication with the FPGA was lost at ~750 Gy
  - All FPGA test logic (shift registers) gave continuous errors at ~500 Gy
- Production FPGAs to be qualified already ordered (378)
  - 3 samples expected by end of April
  - Rest of the batch delivered after successfully tested the samples
- Radiation test of the FPGA batch foreseen by May (at CHARM or PSI)
- Test gateway/software still to be defined

- **Outlook**

- Assembly 3 GEFE with production FPGAs for radiation test
- Define and implement test gateway/software
- Carry out the radiation test of the samples
- Acceptance and reception of the rest of the batch