

Proposal of a new LDA Layout for the AHCAL

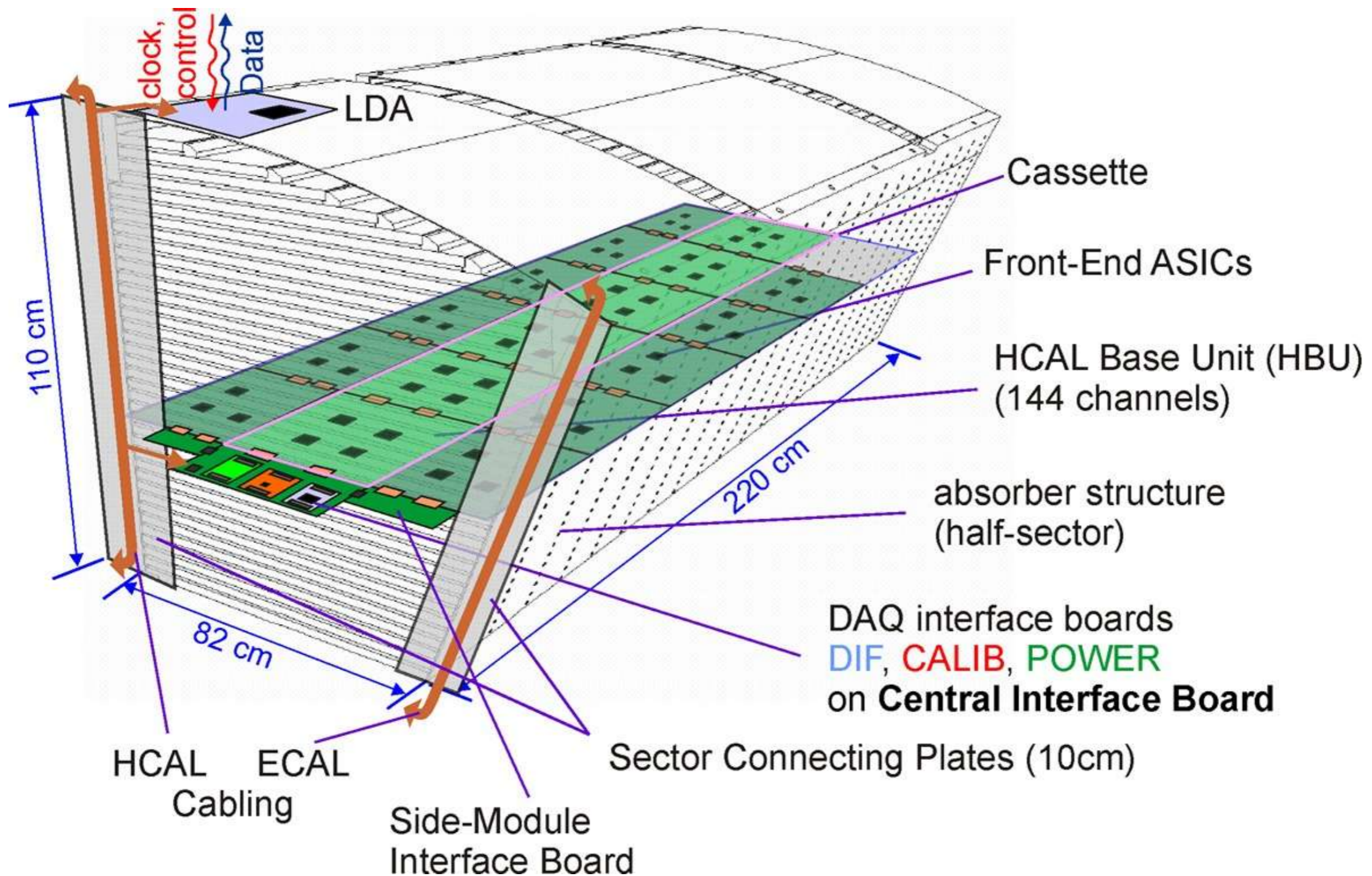
Rainer Wanke
(for the Mainz CALICE Group)

CALICE Collaboration Meeting
Matsumoto, Mar 6, 2012

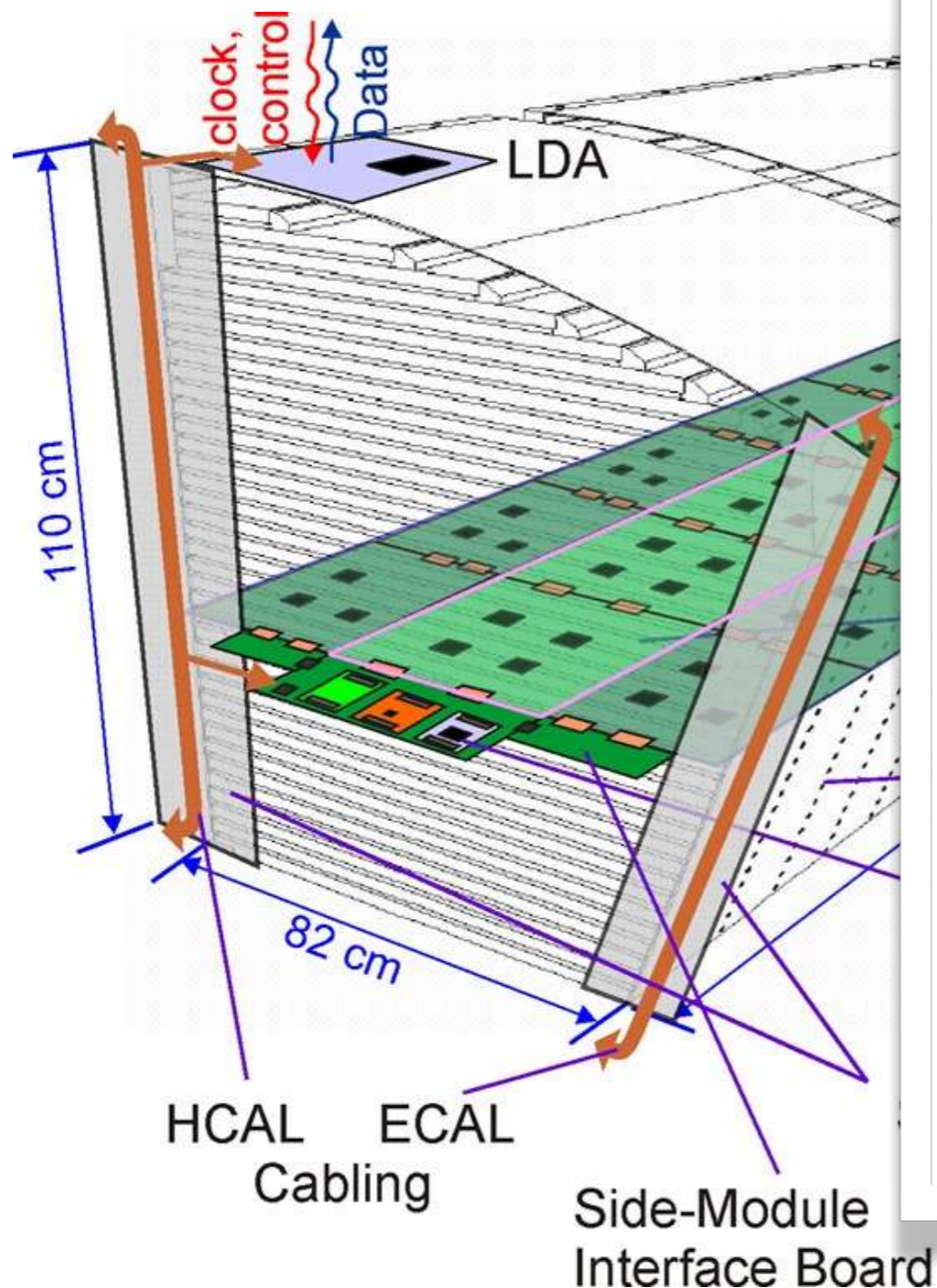


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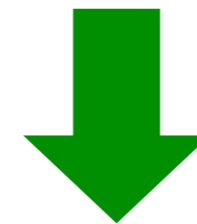
Problems with the current Layout



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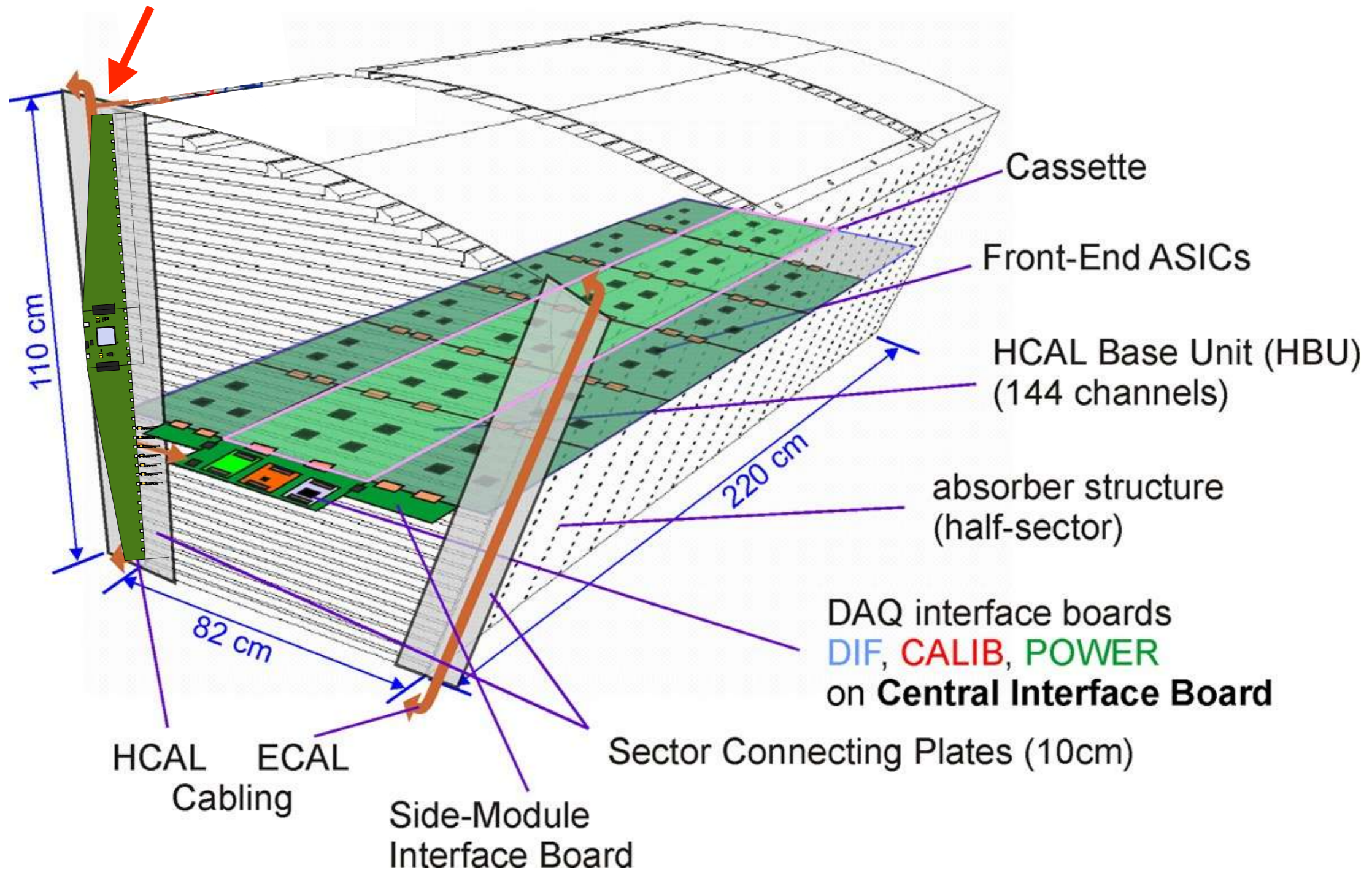
- Very limited space for LDA between AHCAL and magnet coil (needs to receive 48 HDMI cables)
- Lots of HDMI cables going through HCAL cable shaft (10x10 cm²)



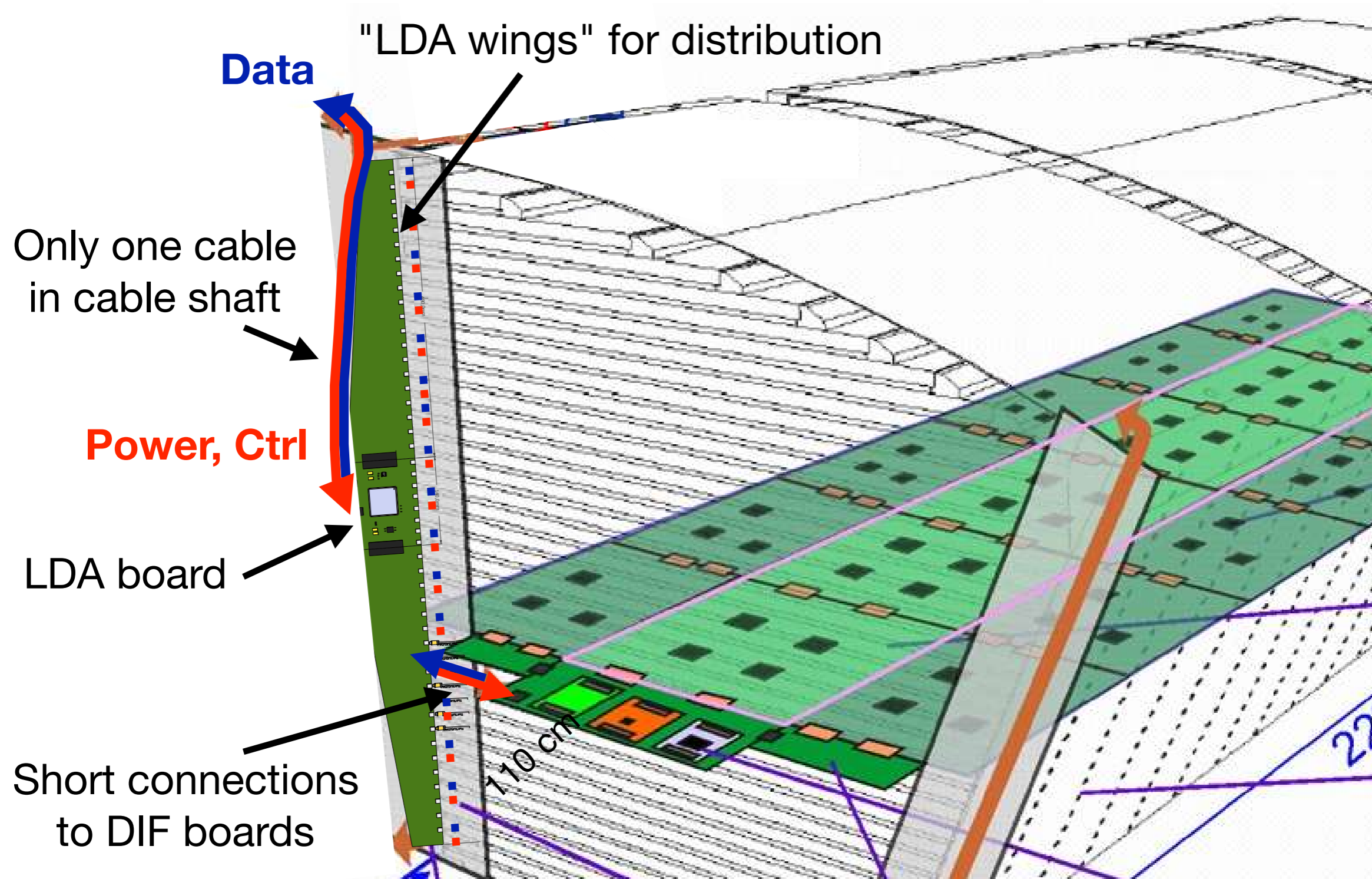
**Awkward position,
little available space for all
read-out and control cables!**

Proposal for new LDA Layout

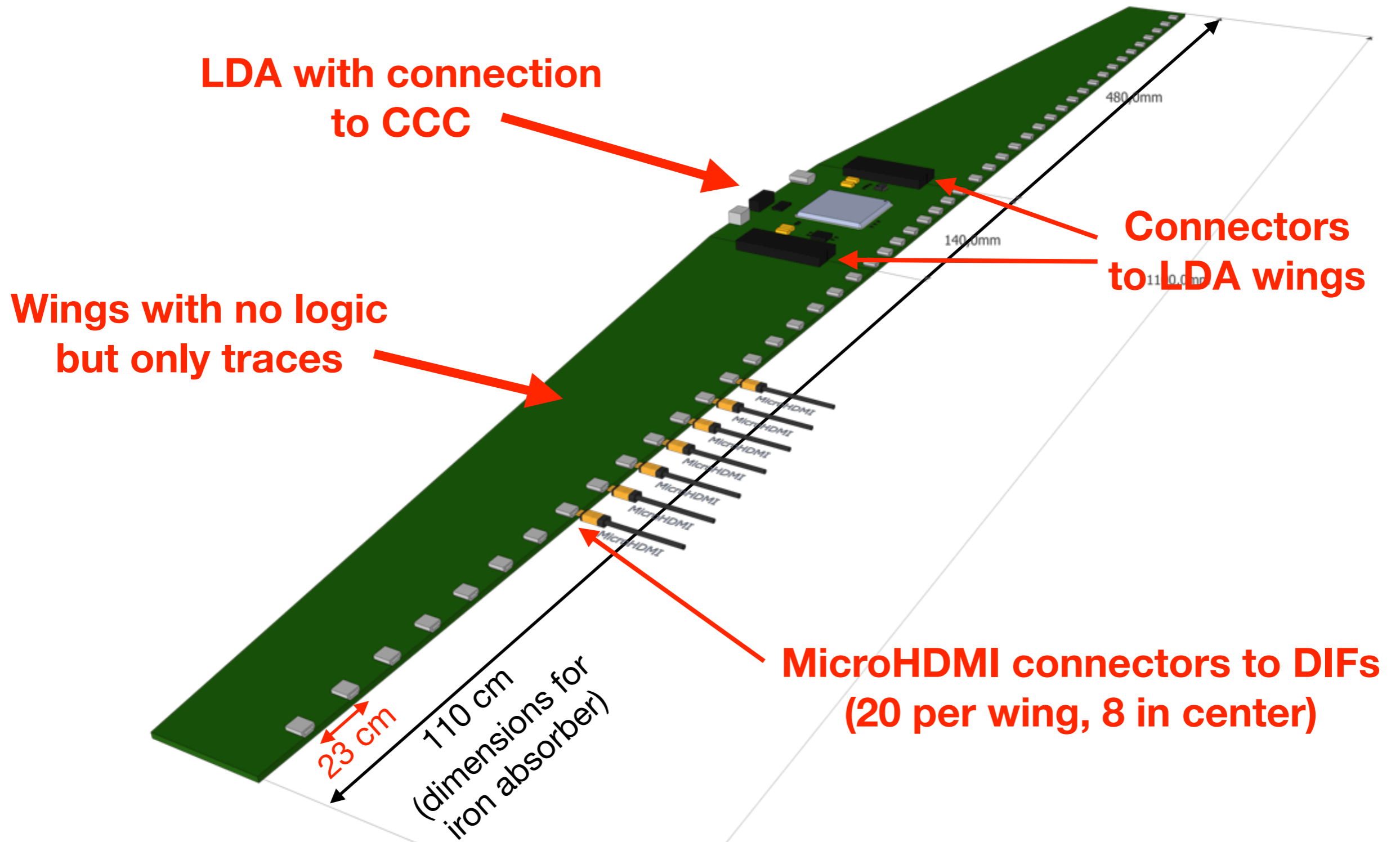
Put LDA board inside cable shaft!



Proposal for new LDA Layout



Proposal for new LDA Layout



Summary

- **LDA position for AHCAL awkward**
 - Little space for board & connections
 - Cable shaft filled with HDMI cables
- **Proposal for new LDA position**
 - Install LDA in AHCAL cable shaft
 - Replace long HDMI cables with PCB boards, directly connected to the LDA
 - Only short, direct HDMI cables to DIF cards
- **No real work started so far**, but ideas & drawings.

Hope for fruitful discussion!