



# LHCb Upgrade Electronics

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Meetings in 2012 (Thursday, 2pm):

11<sup>th</sup> October

13<sup>th</sup> December

<http://lhcb-elec.web.cern.ch/lhcb-elec/html/upgrade.htm>

Mailing list:

Go to [simba.cern.ch](http://simba.cern.ch), search for lhcb-upgrade-electronics

## Workshop on Tracker FE-ASIC (Krakow)

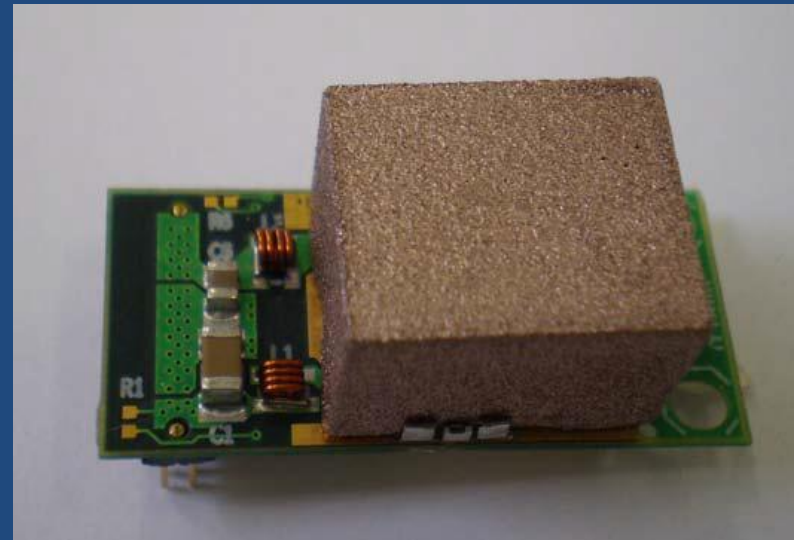
<https://indico.cern.ch/conferenceDisplay.py?confId=194345>

- Very constructive
- Specifications revised
- Detailed discussion on important items (eg NZS)
- Can be used as template for other ASICs

Continue discussion today

## DC-DC convertor (reminder: ST linear regulator no longer available)

R&D should finish end 2012  
Production can start soon after  
LHCb must define its needs:  
Quantities  
Voltage/Current requirements  
Shielding requirements . . . . .



Some sub-detectors already testing, others not started  
**IMPORTANT POINT: switching convertor: noise?!?!**

**Will ask for sub-detector info at October meeting!!!!**

# FE ECS interfaces: summary

Sub-project	Interface	FPGA programming?
Velo	Strips = I2C, pixels = custom	
Front Tracker	I2C	
Inner Tracker	I2C	
SciFi	I2C	?
Outer Tracker	I2C	Yes
RICH	I2C ?	?
Calorimeter	I2C	Yes
Muon	CAN (existing)	