

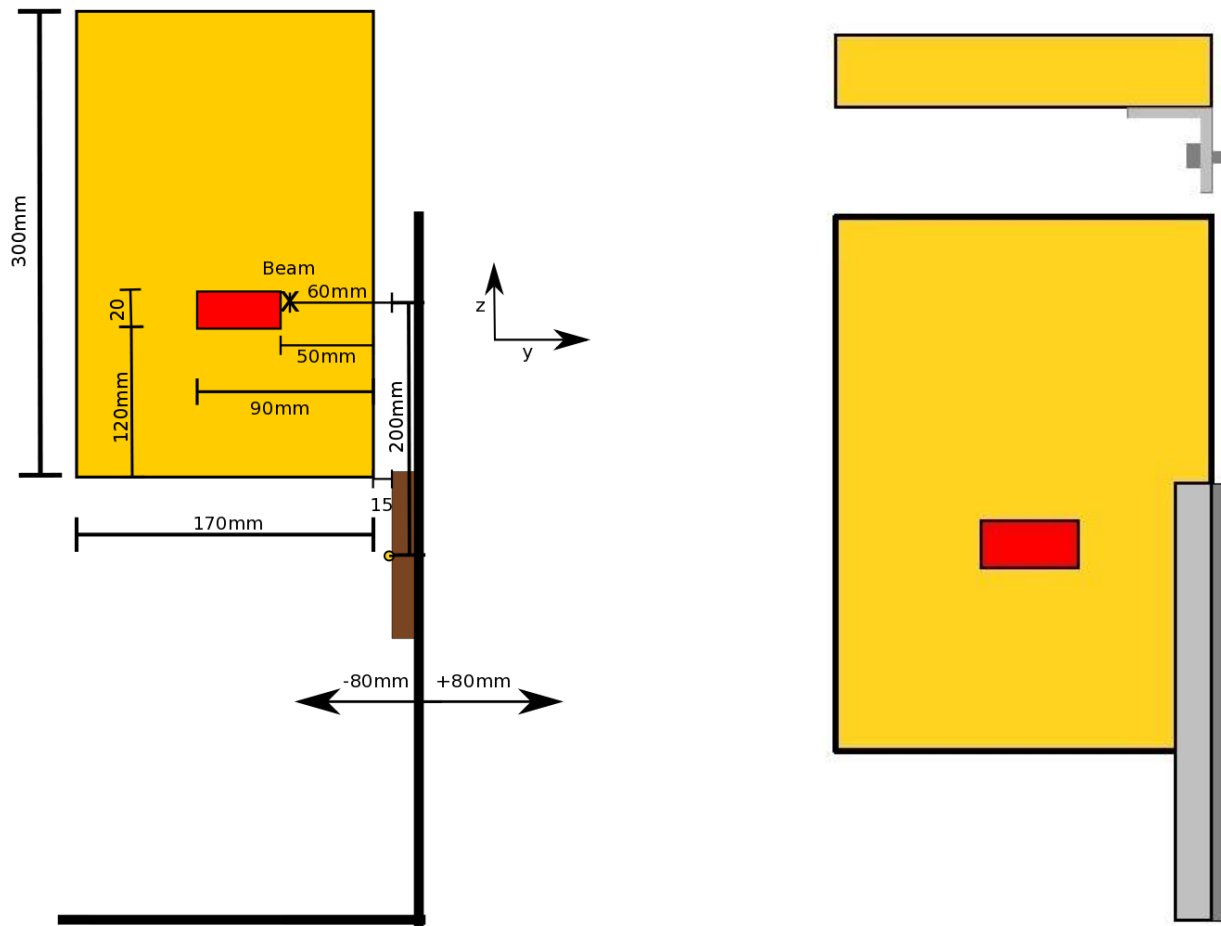
Test Beam Preparation

Maria Hempel
CMS-Fcal Meetin
Freitage der 13.

- > New ASIC with non-irradiated one pad metallisation
 - Test pulses are working
- > Need to test real signals with one pad diamond and new ASIC
 - Correct gating
 - Correct collimation
- > Need to glue two pad diamond on the new ASIC and check if we see signals
 - Which diamond should we take?
 - All of them show high leakage current
- > Shielding box is finish
- > Two computers for the Daq
 - Lccmstmp – SL5
 - Cms-alibava – ubuntu 10.04
- > Computer have DAQ with ADC+LUT
- > The DAQ is running

Mounting

- Shielding box is finish
 - Still needs two holes for mounting it to the x-y table
- Need an angle bracket to fix the box to the x-y table



- > Two computers
 - Lccmstmp: SL5
 - Cms-alibava: ubuntu 10.04
- > Caen ADC and LUT are running on both systems
- > Jessica checked the handshake of ADC and LUT at lccmstmp
 - Cms-alibava will follow
- > The handshake still has some errors
 - Hans and Jessica are working on it
- > We hope we can get some measurements with ADC 1721 from the new ASIC

The Date of Departure

- > Frau Rückert didn't answer yet if we can get the VW
 - Sent 2 mails and called But nothing
- > Packing the car on Sunday
 - Who will be around?
- > I'm willing to drive the car
 - Who will join?



> People who are involved:

- From DESY: Olena Karacheban, Wolfgang Lange, Hans Henschel, Konstantin Afanaciev, Sergej Schwuwalow, Itamar, Levy, Roberval Walsh, Jessica Leonard, Olga Novgorodova, Maria Hempel,
- From CERN: Alan Bell, Piotr, Nicolo, Stella, Agnieszka
- From Krakow: Mikhail Gostkin, Danila Kozhenikov, Petr Smolyanski, Veta Ghenesecu

> We (me and Olena) have to make a shift plan

Measurement Plans

- > Check if we get signals
- > Arrange the gate for ADC
- > Check if we see at 500V a signal in the ADC
- > Calibrate the system (before or during the test beam)
- > Take 2000 triggers for different voltages
 - 20V, 40V, 60V, 80V, 100V, 140V, 160V, 200V, 250V, 300V, 400V, 500V
- > S/N ratio for different HV
 - Can be done by the previous measurements
- > Measure homogeneity
 - Different positions of charged particles crossing the diamond
 - What is the statistic?
- > Edge effects and Cross Talk can be done by previous measurements

