Short summary from the 19th Hardware WG meeting:

1. Three presentations: Sasha, Beata (presented by Sasha), and Alina regarding 2015 TB

a) Sasha showed results on common mode and channel-to-channel correlations analyses for 2015 data

 - common mode is very high (max ~200 ADC, while MIP is ~150 ADC), correlation between non-neighbor channels is also high (often

abs(Rij)>0.5), and in many runs suppression is on, making the common mode calculation hard

 - it will not be easy to get "clean" data for analyses, and S/N is significantly < 10

 - work in progress....

b) Beata calculated piedestal/noise values from HV scan

- apart from symmetric noise a non-expected tail is seen in pedestal distribution

- pedestal fluctuation  vs sensor  bias voltage behaves strange (large jumps in noise are seen between 100-170 HV voltage)

- Beata was not present so it is not clear whether we understand the analyses...

- further work is needed

c) Alina started to build the geometry of 2015 TB in Geant4

- LumiCal modules and tungsten layers are implemented

- Alina expect the input regarding the TB2015 material in case her assumptions (shown on slides) are not precise

- work just started and in progres...

2. Szymon showed slides/proposal about using 4H semi-insulating SiC sensor for BeamCal

- one of pros is very good radiation hardness

- charge collection (but also mobility and charge lifetime) should be investigated since during the discussion there was doubt that it

may be very low

- Szymon offered to measure SiC sensor properties if a sample is available

- a 3 inch sample costs ~2000 USD

- in case we find it interesting R&D for FCAL, the question is whether somebody can put the money for the 3 inch sample, please think about

General comments:

- it is a last moment to register for Dubna workshop (if you need to get visa)

- in 2 weeks S&A WG meeting, in 4 weeks H WG meeting.

Best Regards,

Marek