

FCAL S&A WG  
Meeting Minutes.  
November 01, 2017.

Sasha presented first results on APV25 calibration with and without charge divider (CD) using an external pulse.

- The measurements were made for only one channel with and without CD, just to illustrate first results;
- APV25 shows non linear response after 700 ADC counts;
- The ratio between the APV response with and without CD is around 4.6 in the region of linear response of the APV25;
- Additional cross-talk signal is observed when the signal in the channel with a pulse becomes high, more than  $\sim 1000$  ADCs.
- Measurements will continue to get higher statistics: different input capacitors, APV channels, charge dividers.

Remarks during the discussion:

- Less points can be used to speed up the measurements;
- The threshold where nonlinear response of APV25 begins might depend on the pedestal level which can be different in the lab measurements and in beam test setup.