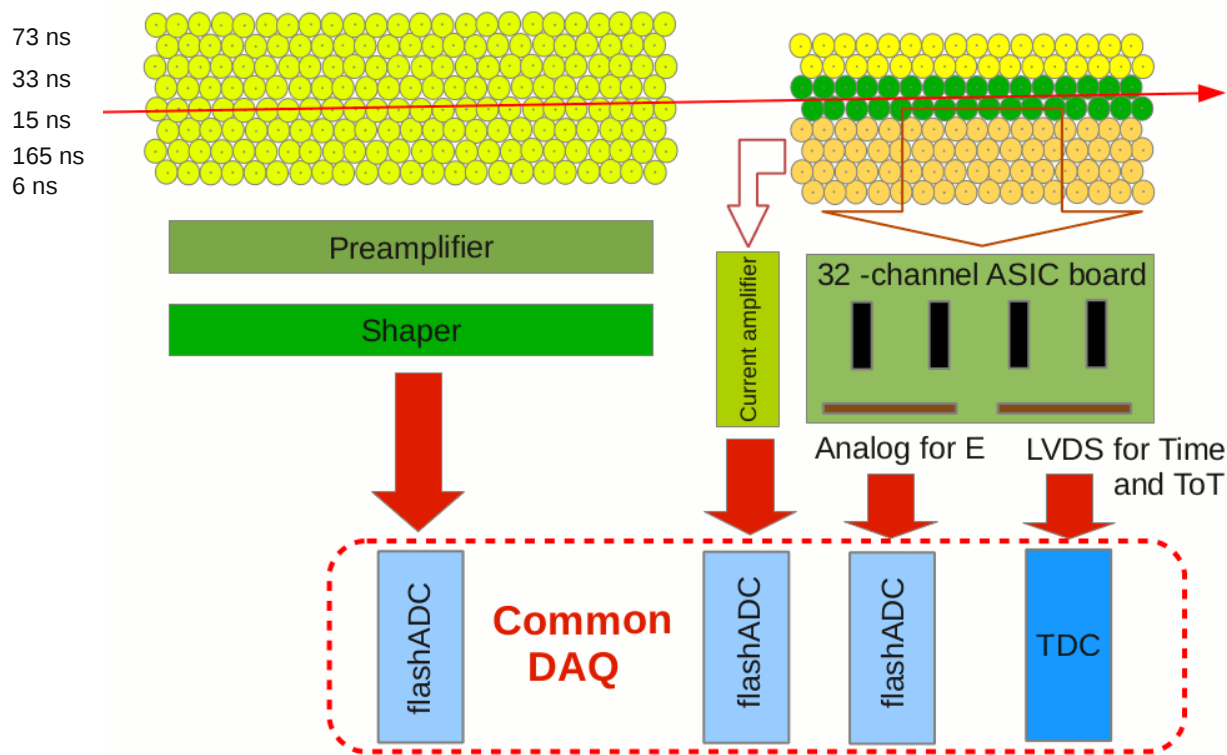


# STT FEE test with COSY proton beam 20 – 24.9.2012

Setup tested: ASIC: 32 channels connected to 2 layers of “old” STT prototype

Shaper: 8 x 16 channels of various integration constants (6, 15, 33, 73, 165 ns) connected to “new” STT prototype



Data was taken

- at two beam momenta:

2.0 GeV/c and 0.9 GeV/c

- at two beam intensities:

-high: up to 2 MHz/straw

-low: ~ 30 kHz/straw

- at various gas amplification

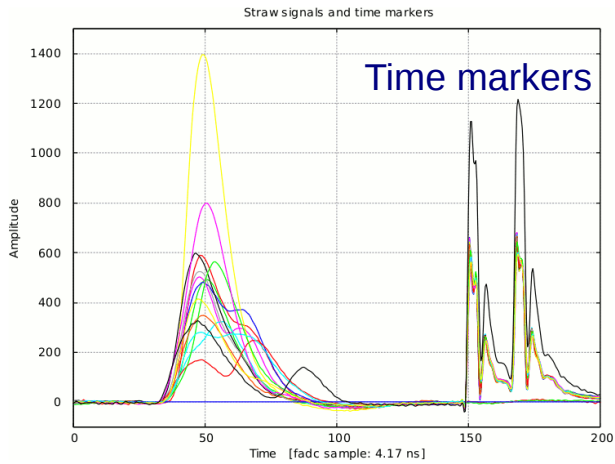
For ASIC two sets of parameters were used with short and long integration

Analysis of ASIC data: Jag.Uni. (Jacek Biernat, Marek Palka, Grzegorz Strzepek, ...)

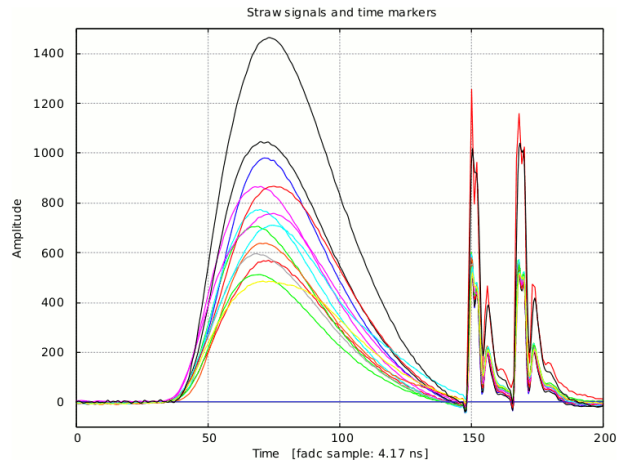
Analysis of Shaper: K.P.

# Signals

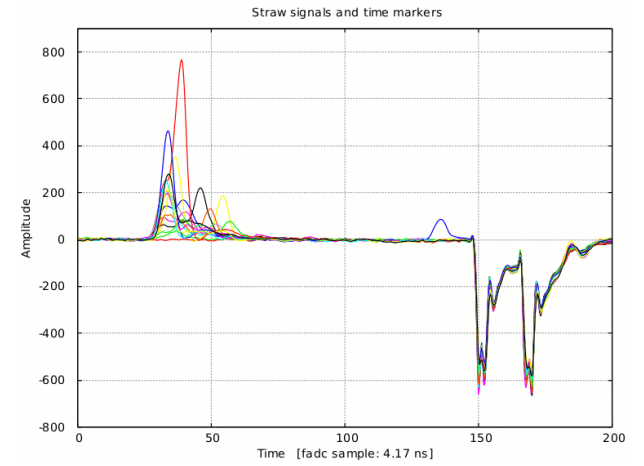
## Shaper 6 ns



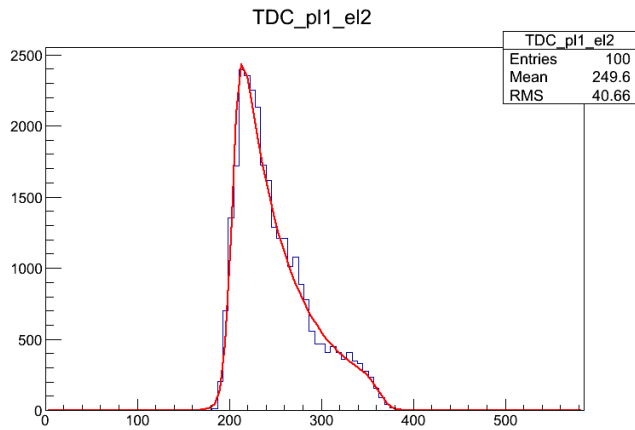
## Shaper 165 ns



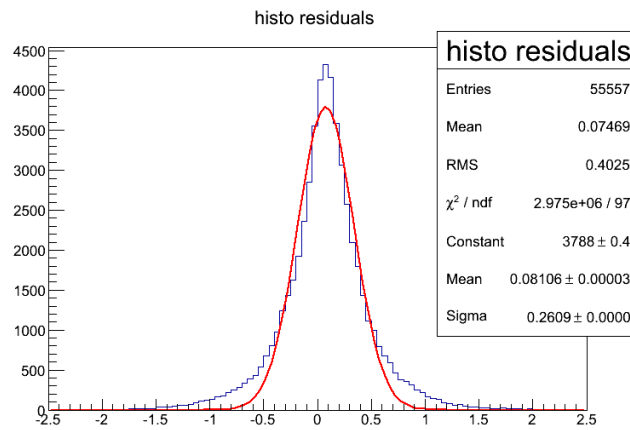
## ASIC analog, short integration



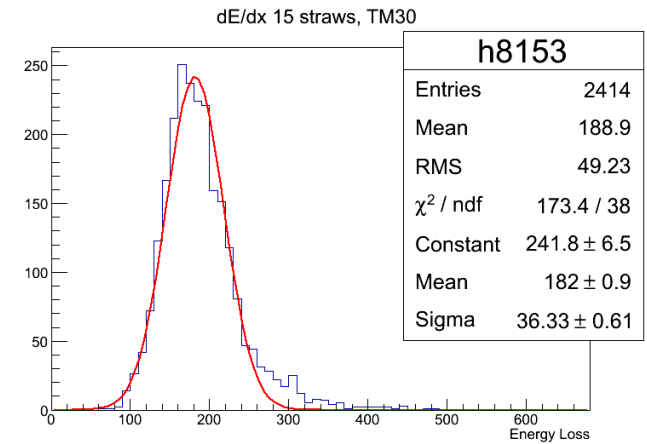
# Preliminary data check: Shaper of 6 ns shaping time



good



decent



expected