

Munich / Würzburg annotations to SRS status/developments

- There is a new colleague in Munich working on an addition into the FECv6 APV Zero Suppression FW, in order to include common mode information as a "virtual" 129th channel.
- In parallel we are at the moment evaluating the benefits from using the unmodified ZS firmware with some (lets say every 16th) APV channels set to artificial low threshold, so that they will always get "selected" by the zero suppression and get written out. This allows some offline reconstruction of the analogue baseline for every timebin (after re-correction of the "wrong" pedestals).
- I have c/c++ based command line SRS slow control tools ready. They are somehow focused on our use of the ATLAS-SRU firmware with multiple FEC cards, but with some adoption probably a good starting point for anybody who wants to automatize his SRS slow control.
For example they allow allows to perform a full FEC and APV configuration, including Zero Suppression Pedestal/Sigma extraction and PLL phase tuning from a single command/script/website/etc...
(read/write registers, register pages, set/reset bits in registers, configure equipment)