

TB2020 – SRS noise analysis

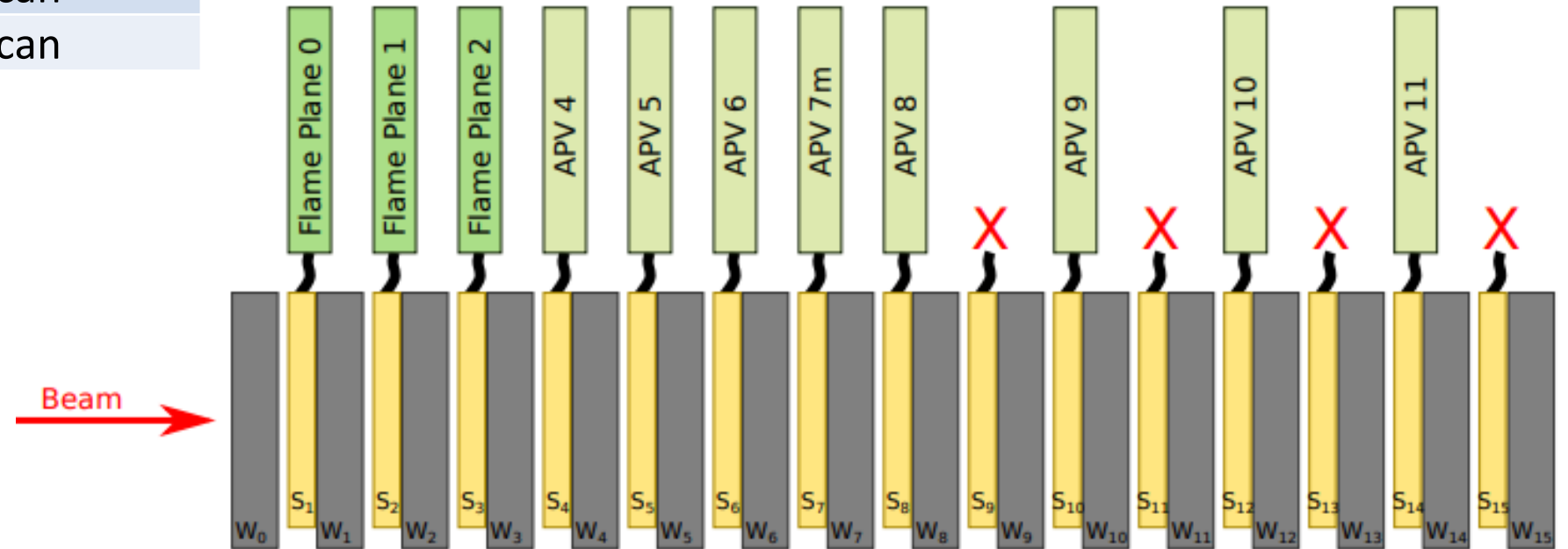
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- Pedestal runs for different configurations

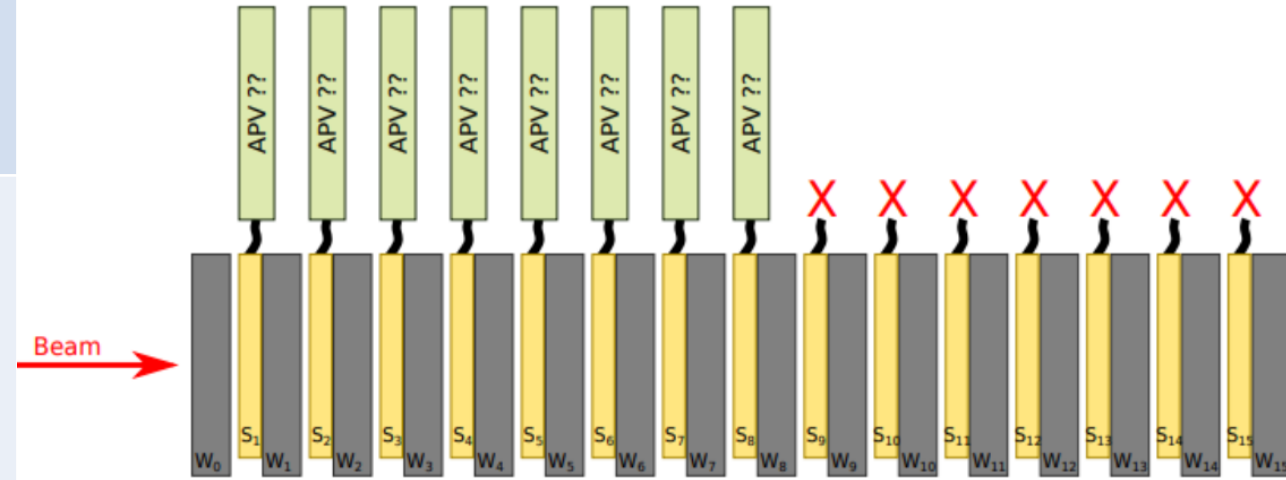
1st energy scan - 1 to 5 GeV

SRS run no.	Configuration setup
18	1 st energy scan
24	1 st energy scan
35	1 st energy scan
45	1 st energy scan

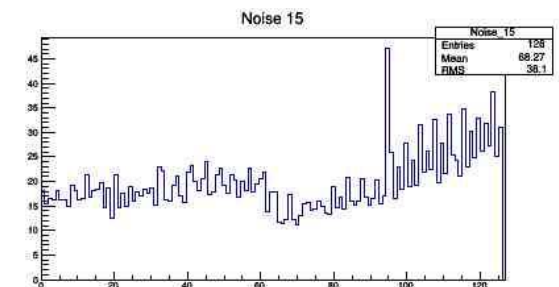
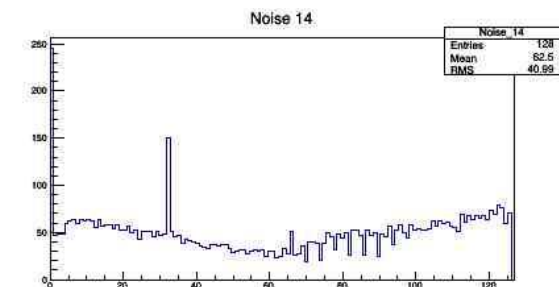
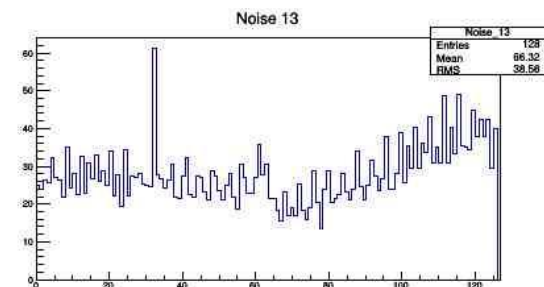
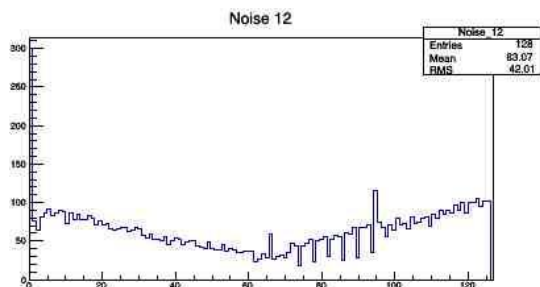
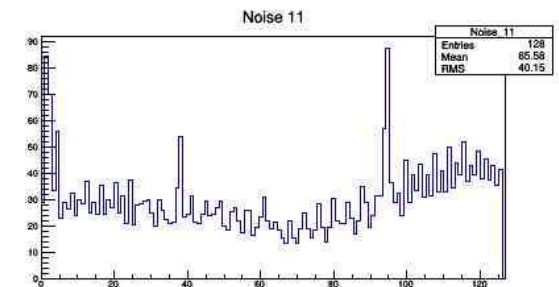
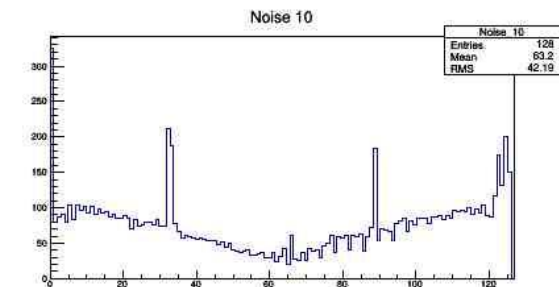
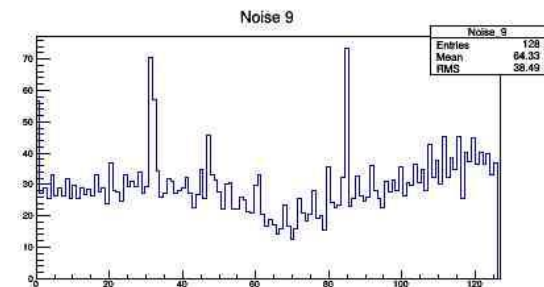
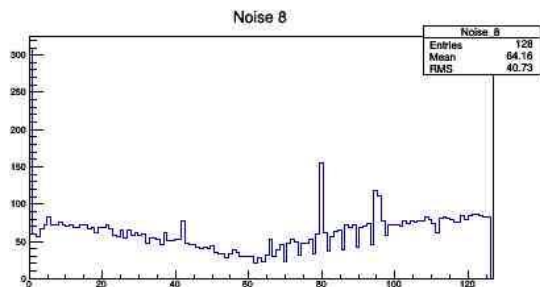
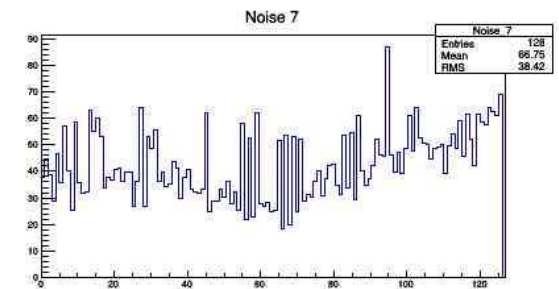
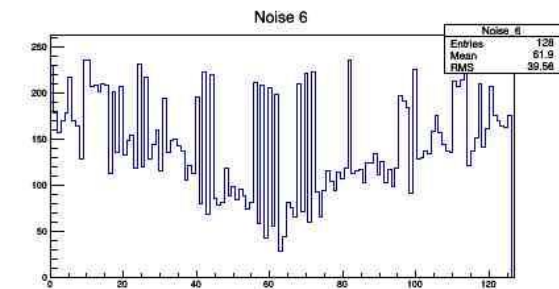
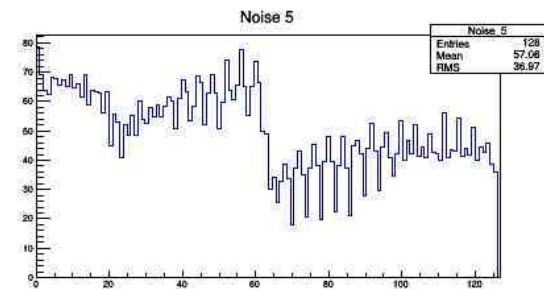
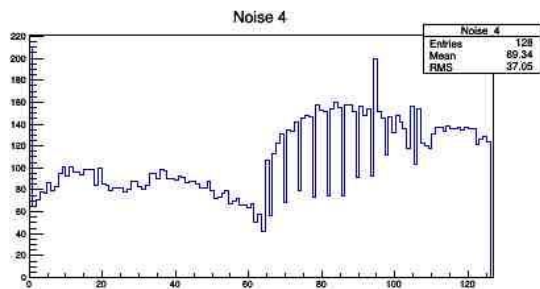
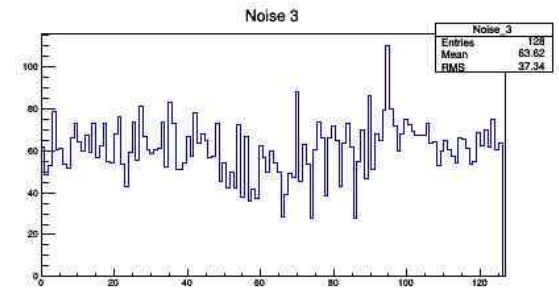
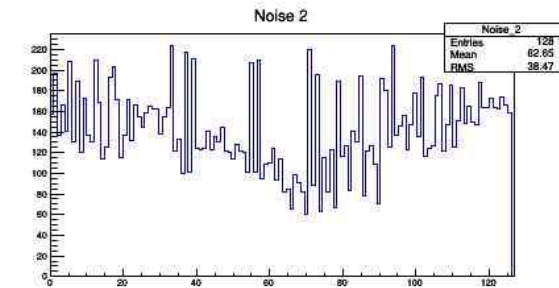
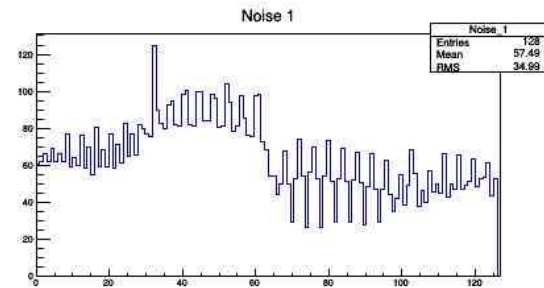
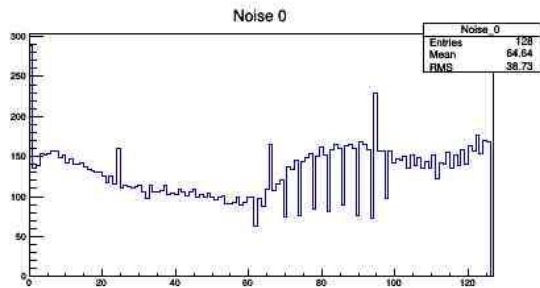


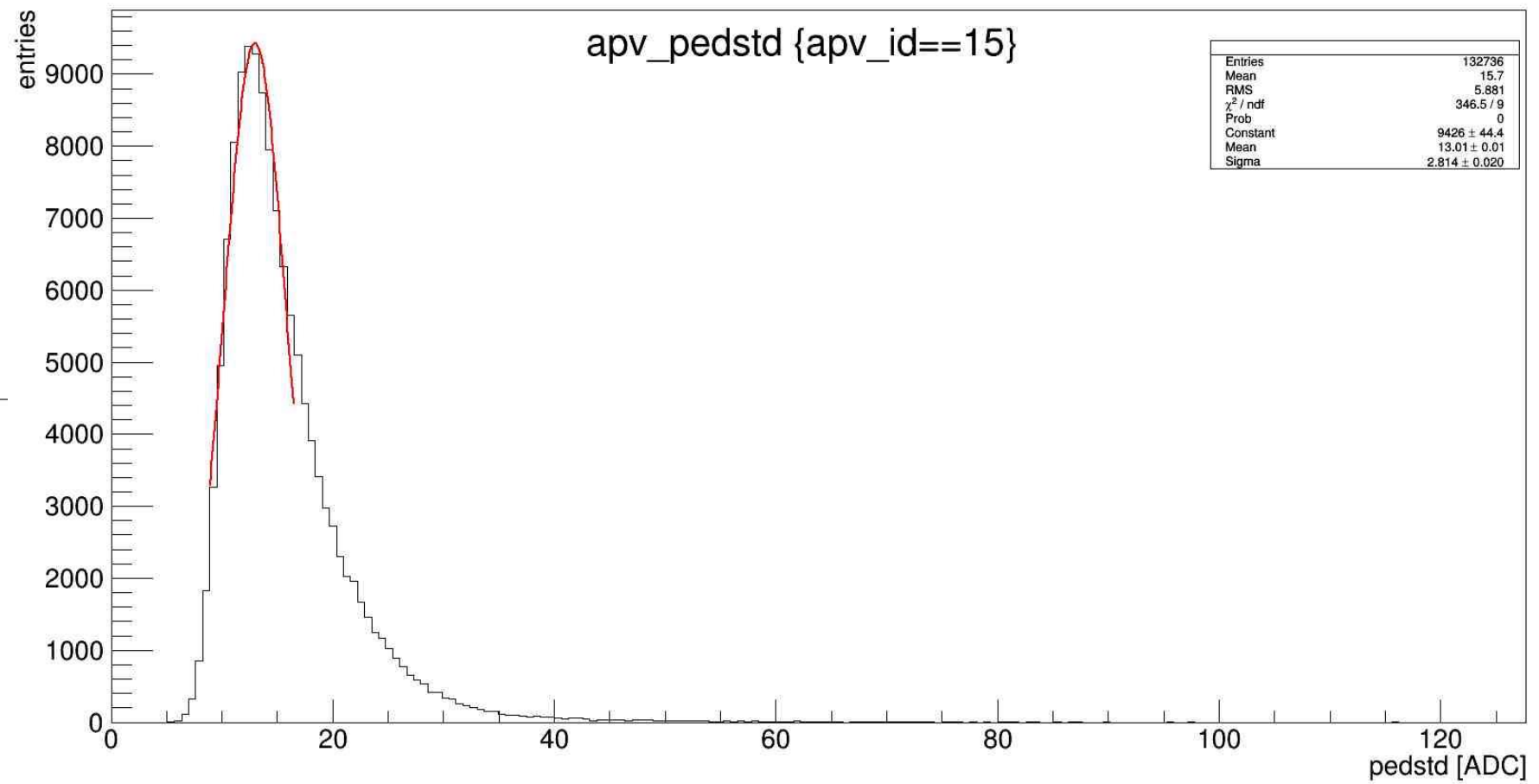
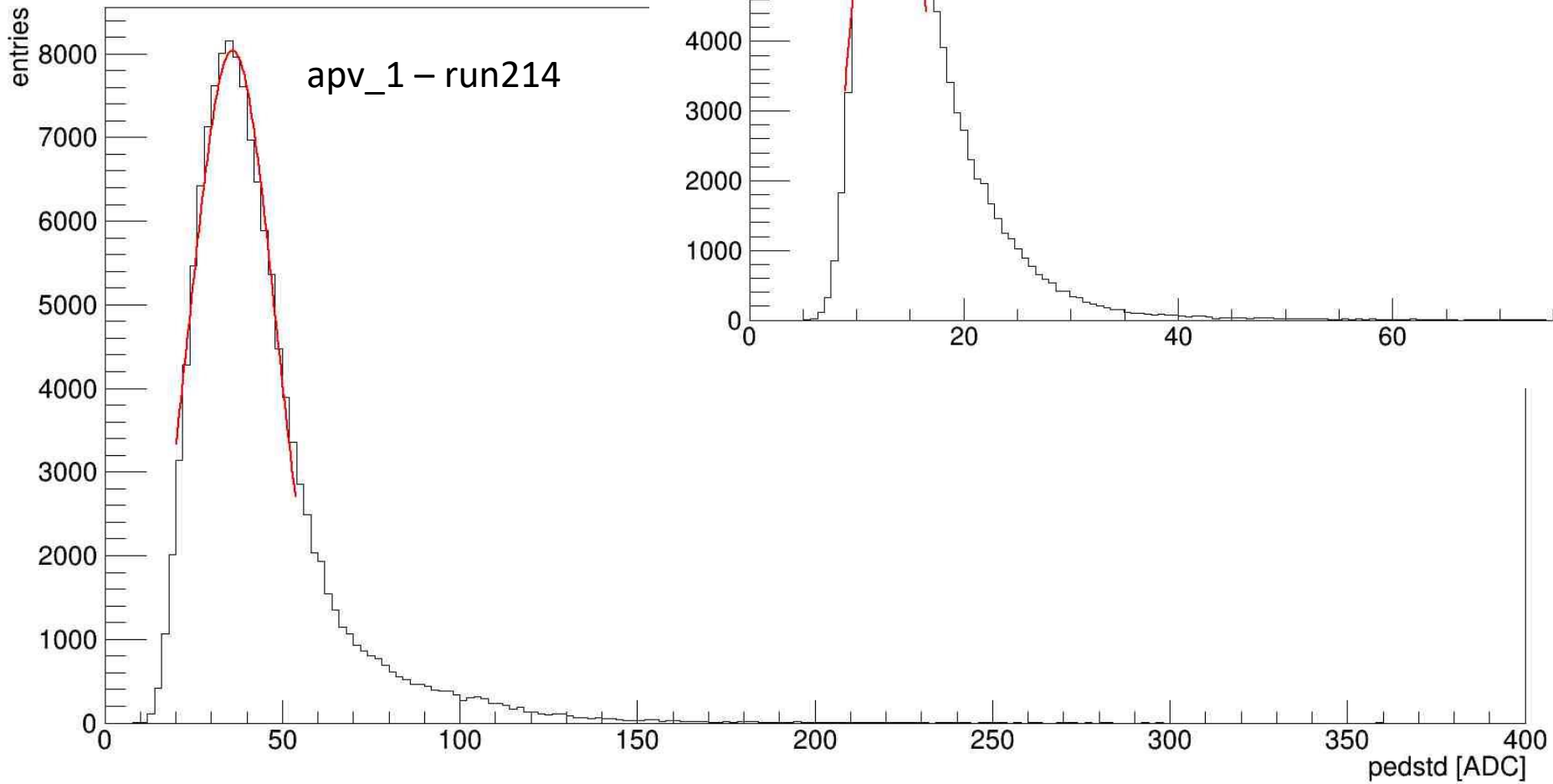
- Pedestal runs for different configurations

SRS run number	Configuration setup	
87	Tilted at 2 degree	Tilted setup
94	Tilted at 4 degree	
103	Tilted at 6 degree	
174	A, w/ tungsten abs	2 nd energy scan
188	A, w/ tungsten abs	
193	A, w/ tungsten abs	
198	A, w/ tungsten abs	
203	A, w/ tungsten abs	
214	A, w/ tungsten abs	
228	LUXE - A, w/ tungsten abs	LUXE setup
234	LUXE - A, w/ tungsten abs	
238	LUXE - A, w/ tungsten abs	
249	LUXE - A, w/ tungsten abs	
266	LUXE - A, w/ tungsten abs	
270	LUXE - A, w/ tungsten abs	
278	LUXE - A, w/ tungsten abs	
288	LUXE - A, w/ tungsten abs	

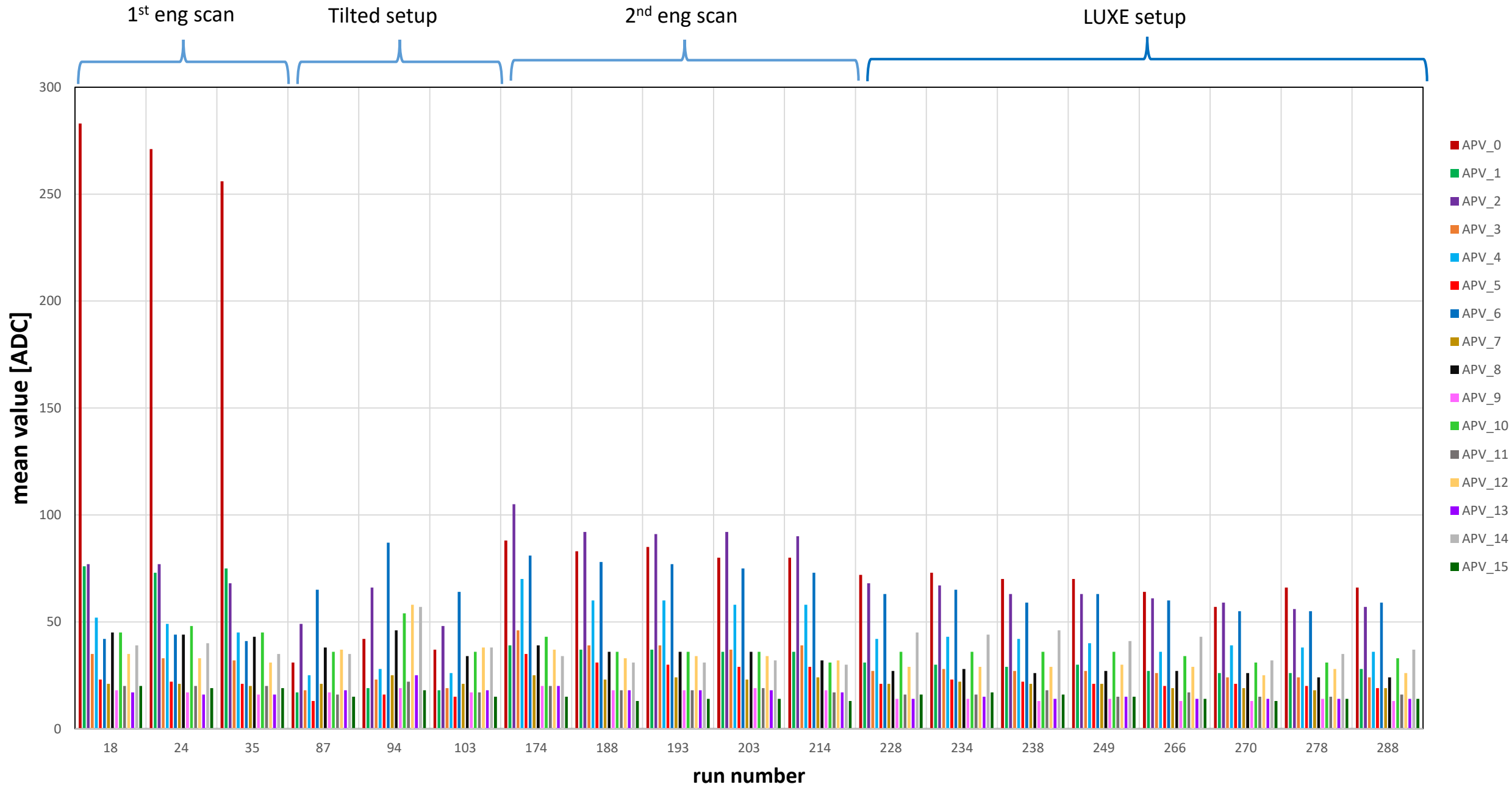


Run 214





Mean value of pedestal standard deviation



Conclusions

- During the 1st energy scan setup the APV_0 was very noisy, the noise was about 250 ADC.
- After this 1st energy scan setup the noise mean value was less than 100 ADC for all APVs.
- During the LUXE setup the noise mean value was almost constant for each APVs.