

Cold Module Testing

Cold Temperature Tests

See also: <https://confluence.slac.stanford.edu/display/hpsg/05.21.2013+Weekly>

Comment	T_{chiller} (C)	T_{digi} (C)	T_{RTD} (C)	T_{Hybrid} (C)
“stable”	-5	7.2	-	10.1
		2.2	-	6.0
		0.8		4.4
“stable”	-10	0.4		3.9

- Didn't write down RTD values – within 0.5C from digital
- Ran with bypass valve open on manifold (argh)! Should improve flow in cold plate
- No problem with condensation in cold box (some ice on badly insulated chiller output)

Cold Runs

Use old firmware (thanks Ben): HeavyPEth_C0000064.mcs

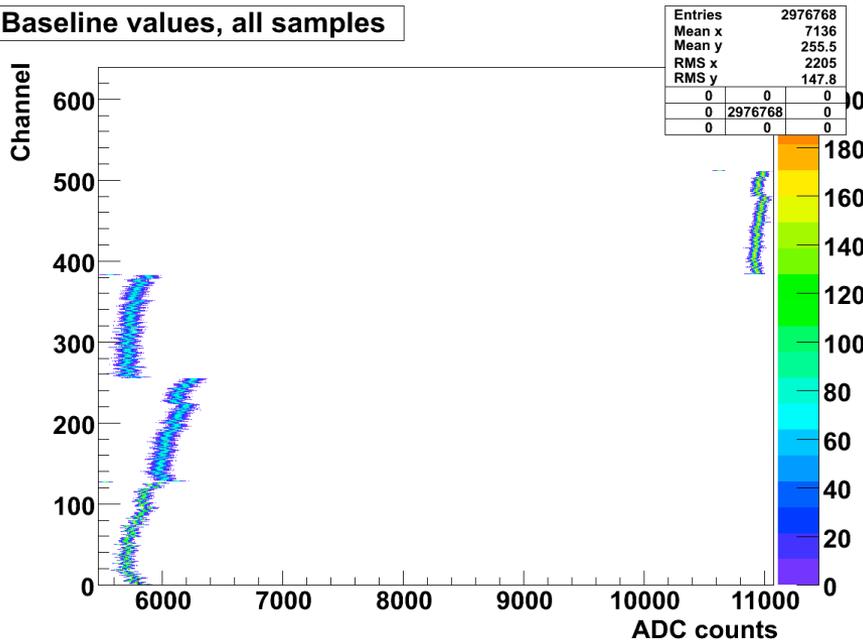
- Run calibration and baseline at: 21,15,12,10,4
- Data in /u1/data/gimp_Vbias21_T*_oldfirm/

See no (obvious) change in behavior as a function of temperature

Baseline Run

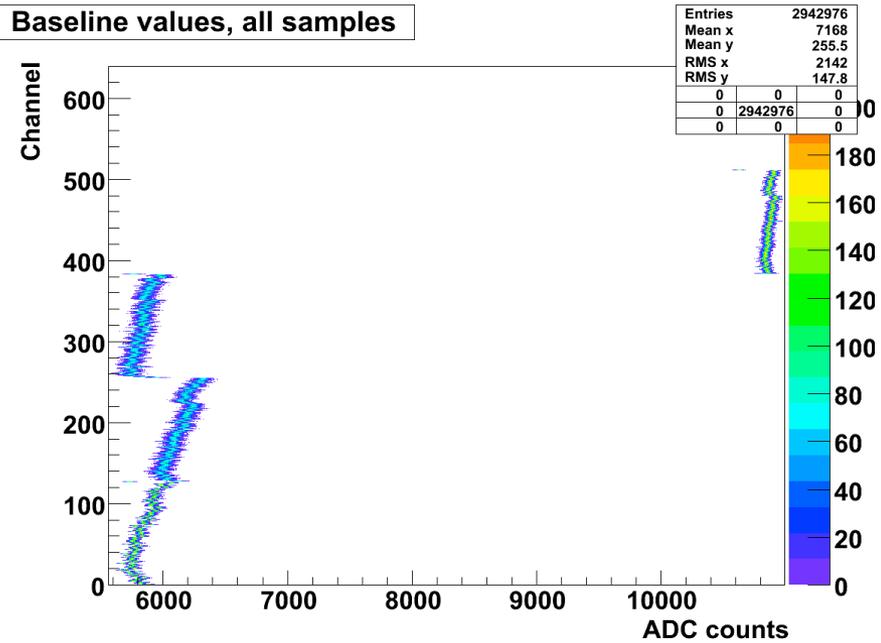
$T_{\text{hybrid}}=4$

Baseline values, all samples



$T_{\text{hybrid}}=21$

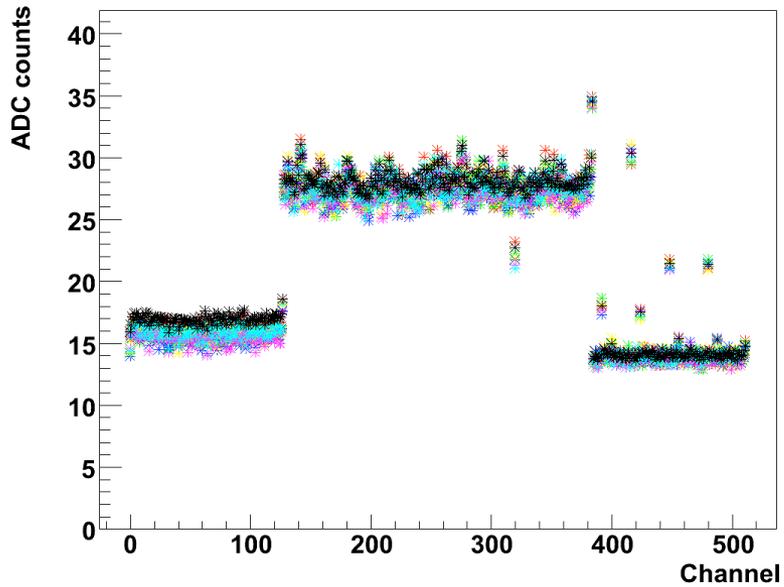
Baseline values, all samples



Baseline Noise

$T_{\text{hybrid}}=4$

Noise



$T_{\text{hybrid}}=21$

Noise

