

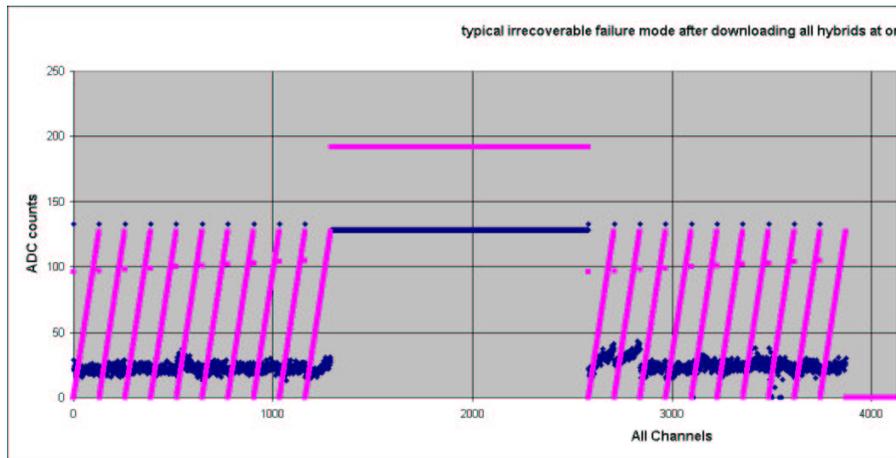
## Status of four full chain readout

### power-on problems solved

- All power supplies have enough overhead now to accommodate power-on peak currents
- All currents are as expected

# Status of four full chain readout

simultaneous download of 4 hybrids problematic!



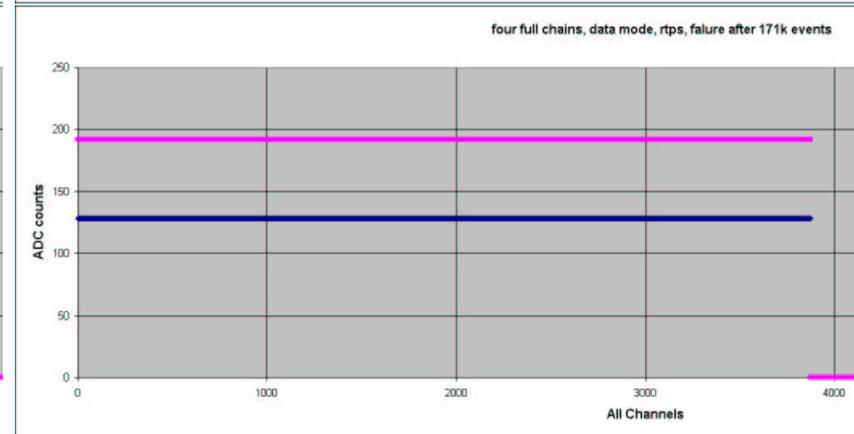
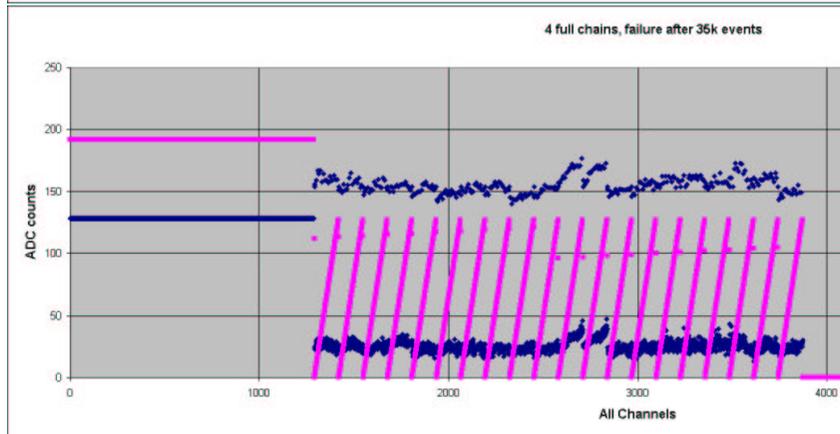
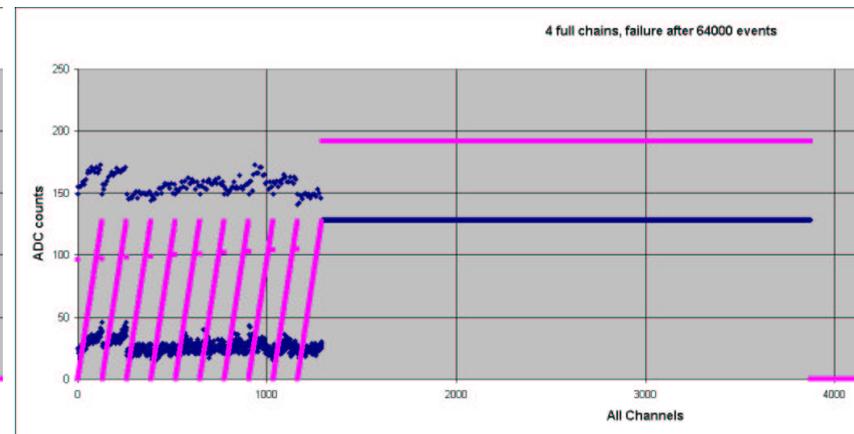
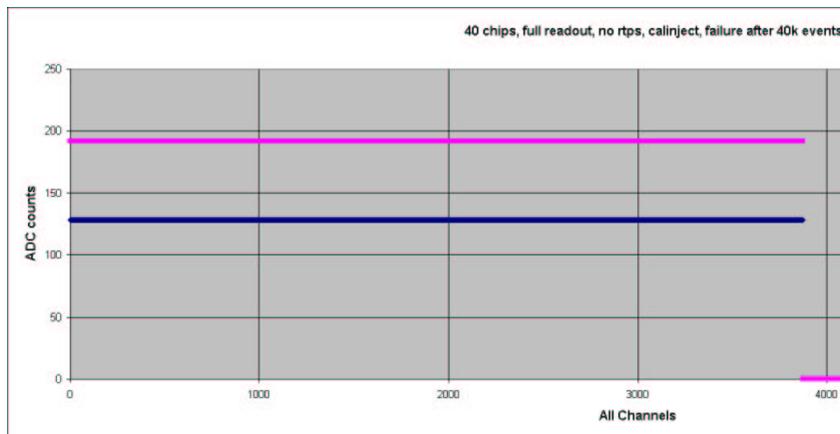
example of permanent failure mode due to download problems

solutions:

- redownload of failing chains
- download one by one

# Status of four full chain readout

readout error rate 1/100k



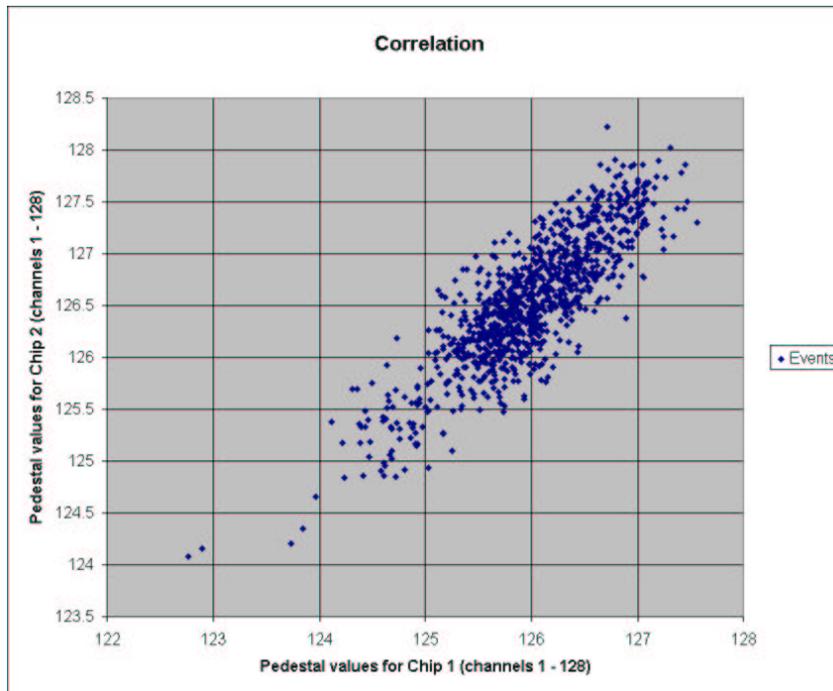
## Status of four full chain readout

### noise performance

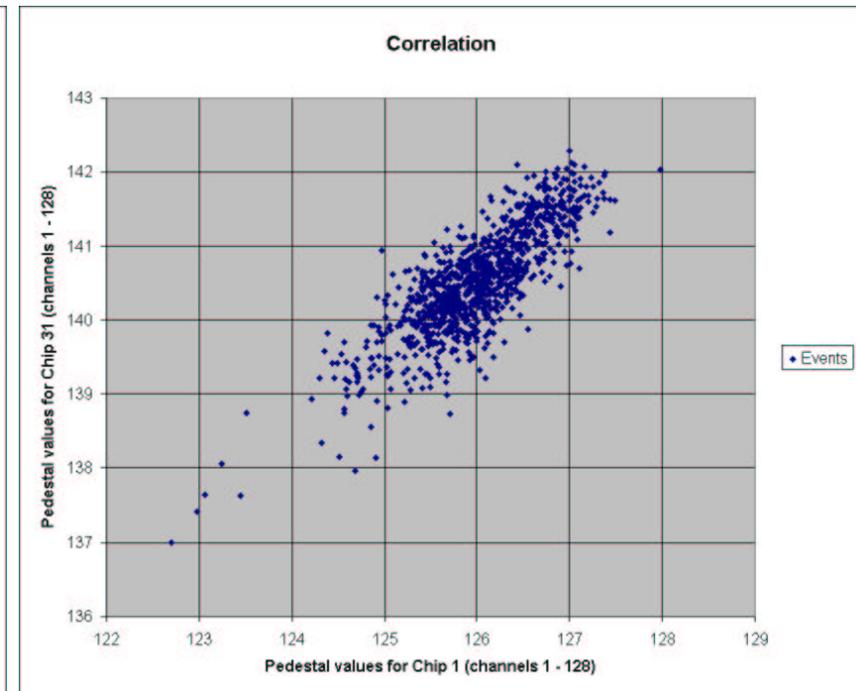
chain	total noise/differential noise	
	1 ch. purple card	4 ch. full chain
master A	1.15/0.96	1.15/0.97
master B	1.20/0.98	1.20/0.99
slave A	1.14/0.96	1.13/0.96
slave B	1.20/0.98	1.17/0.98

# Status of four full chain readout

Are all chains read out simultaneously?



master A, chips 1 vs.2



master A, chip 1  
vs. slave B chip 1

## Status of four full chain readout

Everything looks rather good so far:

- power-on and download works now
- readout error rate around 1/100k

Work in progress...

- understand download problem
- understand readout errors
- scan operation modes