Hybrid 8j104 Traveler

December 20, 1999

1 Connectivity

Repairs on shorts:

Fixes for opens:

2 Chips

The following chips were assembled on this hybrid (in the order that the chips get read out):
Hybrid 8J104 has die: 199-066 199-069 199-071 199-072 199-095 199-096 199-097 199-110

3 Data Analysis Summary

The following summarizes the findings of the Burn-in data analysis program. The first chip in the readout name is numbered 0.

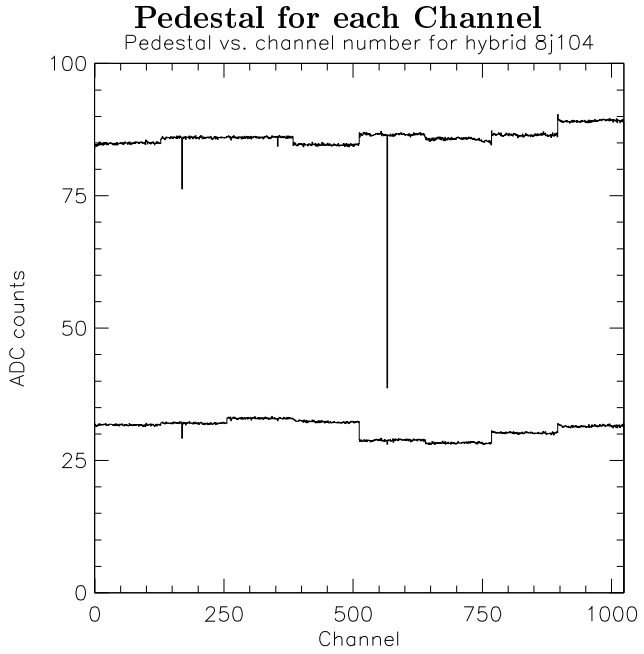
```
% Hybrid 8j104 classification info. Created 15:11:21 12/01/99

Hybrid 8j104 quality: fair
Chip classification: good fair good good fair good good good
Bad channels (chip-channel): 1-41 4-54 4-55
Bad cells: none
Random bad capacitors: none
Channels at pedestal needed for DCMS: 32.7 34.4 35.6 32.7 30.6 28.8 31.6 31.7
```

4 Comments

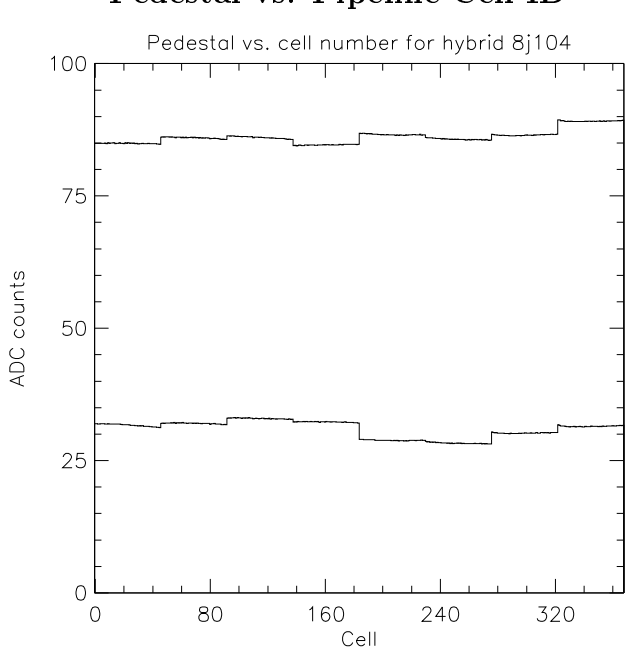
No comments.

5 Pedestal

The following plot shows the pedestals vs. channel number with and without charge injection:



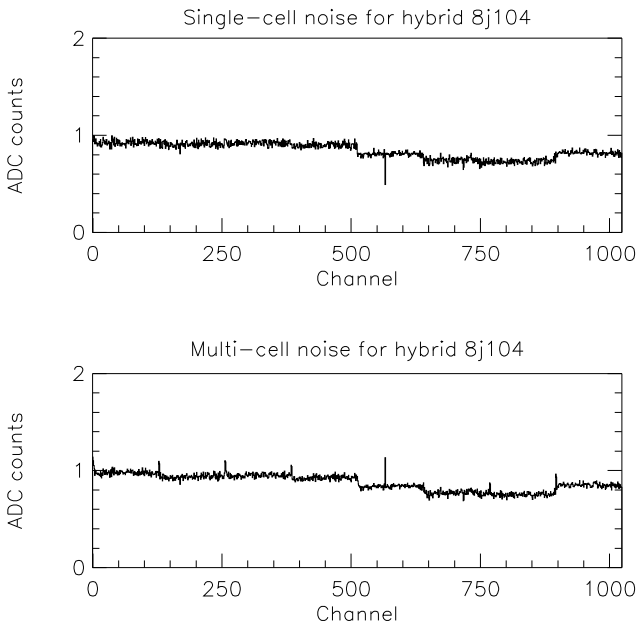
The following plot shows the average pedestal vs. pipeline cell ID with and without charge injection. The x-axis is cell ID offset by 46 for each chip. Thus cell ID 5 for chip 1 is at x=5, chip 2 at x=51, chip 3 at x=97, etc.



6 Noise

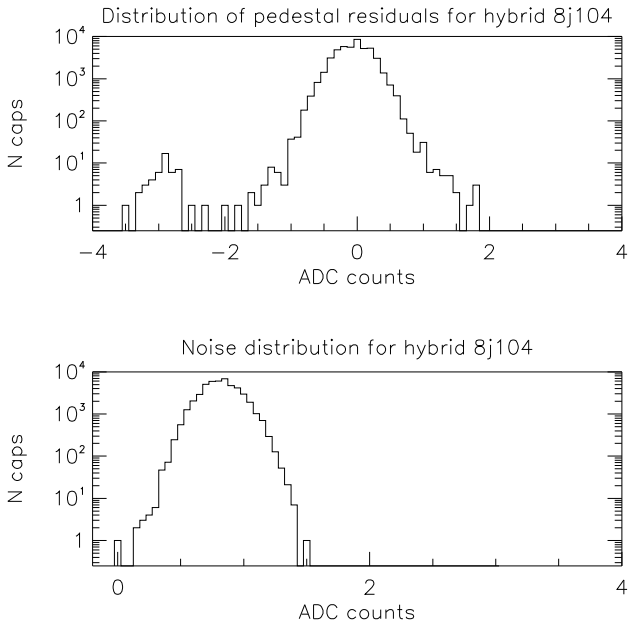
The following plots show the single-cell and multi-cell RMS noise:

RMS Noise

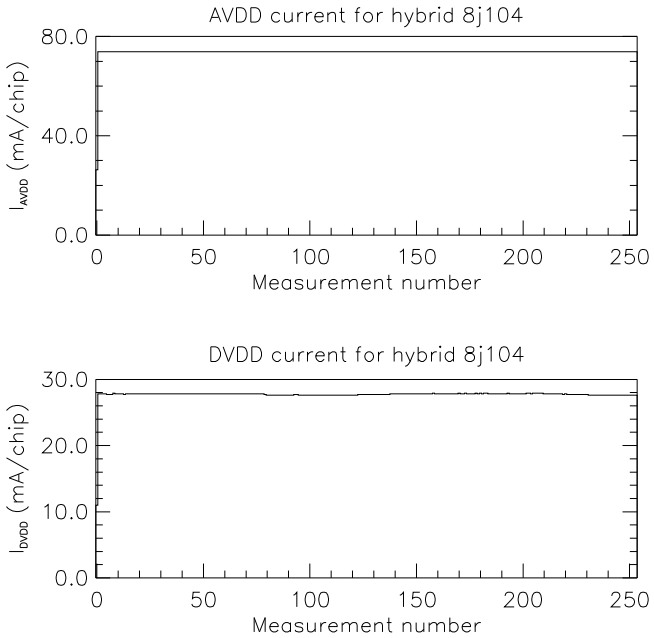


The following are histograms of the pedestal of each pipeline capacitor relative to the chip average (top); and the RMS noise of each capacitor (bottom):

Distribution of Pedestals and Noise



7 Currents

The following plots show the supply currents per chip as a function of measurment number. Currents are measured approximately every 10 minutes:

Supply Currents During Burn-in