Hybrid 8j121 Traveler

December 8, 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 8J121 has die: 097-030 097-031 097-032 097-035 197-083 197-086 197-087 197-088

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 8j121 classification info. Created 12:17:31 12/06/99

Hybrid 8j121 quality: fair
Chip classification: good good good good good good good fair
Bad channels (chip-channel): 7-19
Bad cells: none
Random bad capacitors (chip-cell-channel): 7-1-20 7-1-21 7-12-20
   7-12-21 7-13-20 7-3-20 7-38-20 7-42-20 7-42-21 7-45-20
Channels at pedestal needed for DCMS: 35.6 35.6 35.2 35.6 31.6 33.6 33.7 32.6
```

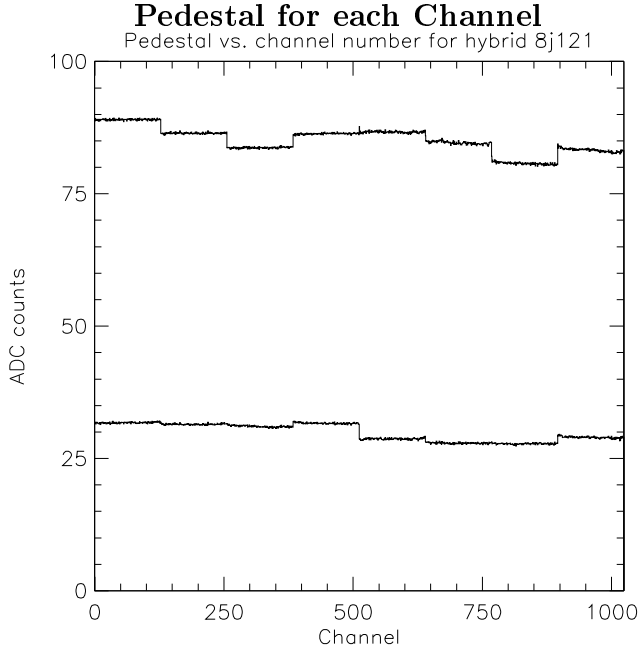
4 Comments

No comments.

5 Pedestal

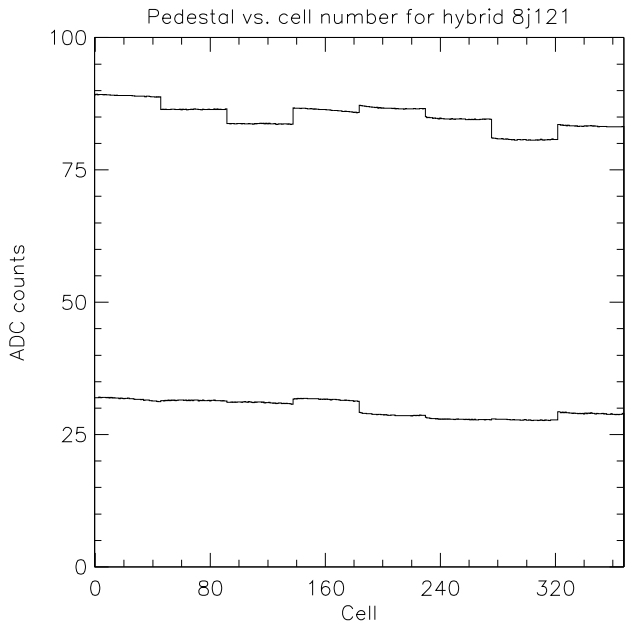
The following plot shows the pedestals vs. channel number with and without charge injection:

Pedestal for each Channel



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.

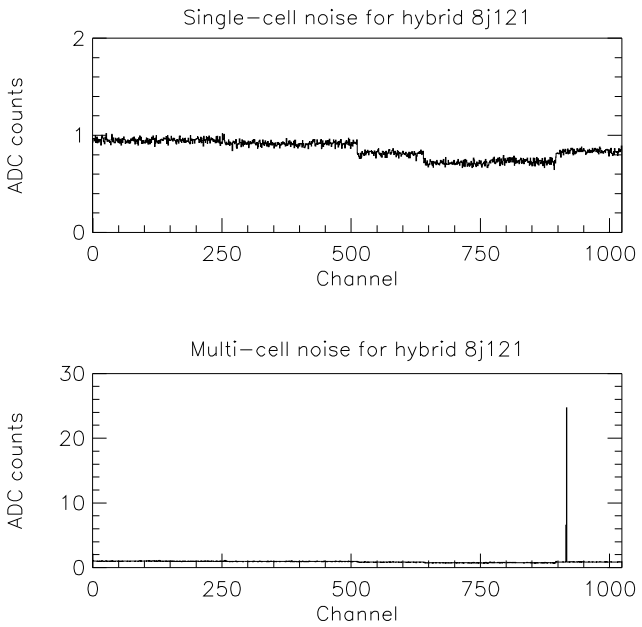
Pedestal vs. Pipeline Cell ID



6 Noise

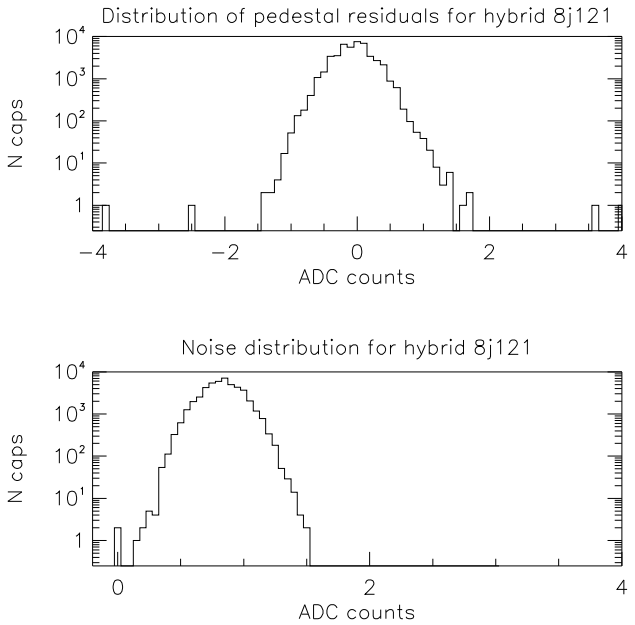
The following plots show the single-cell and multi-cell RMS noise:

RMS Noise

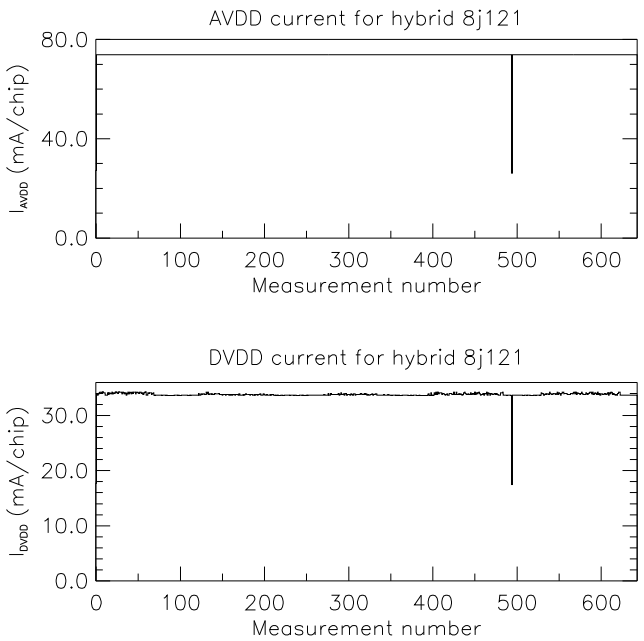


The following are histograms of the pedestal of each pipeline capacitor relative to the chip average (top); and the RMS noise of each capacitor (bottom):

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