Hybrid 8j34 Traveler

November 2, 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 8J34 has die: 048-002 048-005 048-006 048-010 045-028 045-029 045-030 045-031

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 8j34 classification info. Created 18:10:15 10/27/99

Hybrid 8j34 quality: bad
Chip classification: bad bad bad bad bad bad bad bad
Bad channels: N_bad_total = 1024 (too many to list all of them)
Bad cells: none
Random bad capacitors (chip-cell-channel): 3-32-44
Channels at pedestal needed for DCMS: 34.5 34.2 34.6 33.7 34.6 35.5 33.3 34.6
```

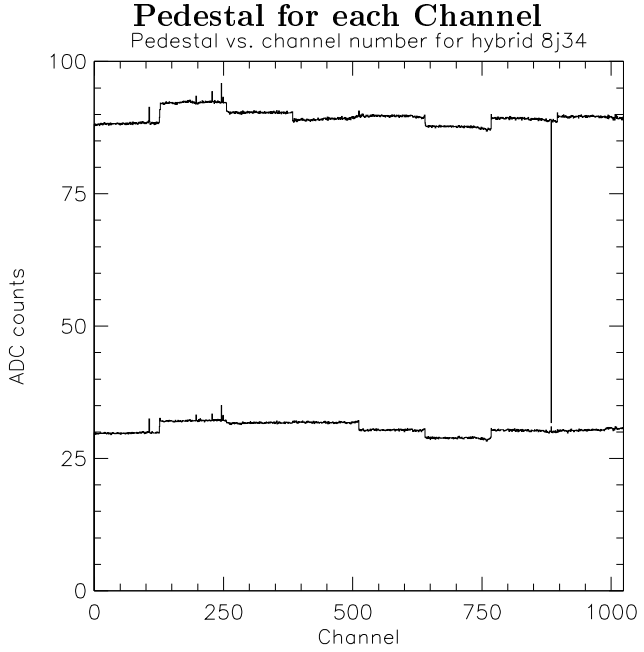
4 Comments

No comments.

5 Pedestal

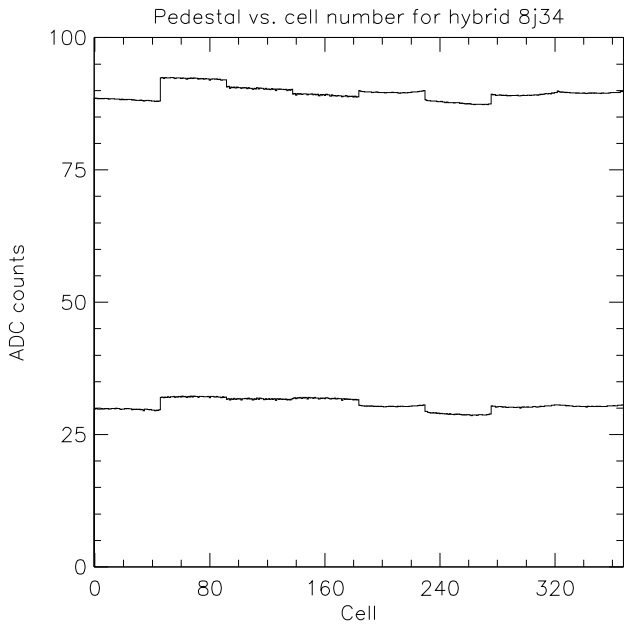
The following plot shows the pedestals vs. channel number with and without charge injection:

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.

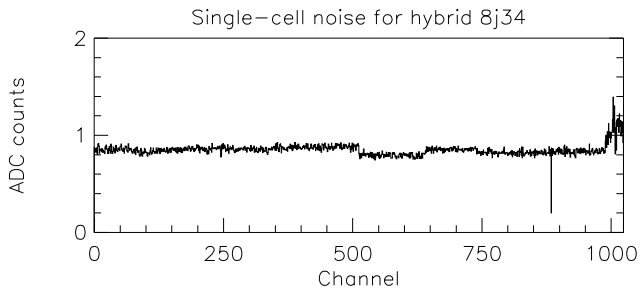
Pedestal vs. Pipeline Cell ID

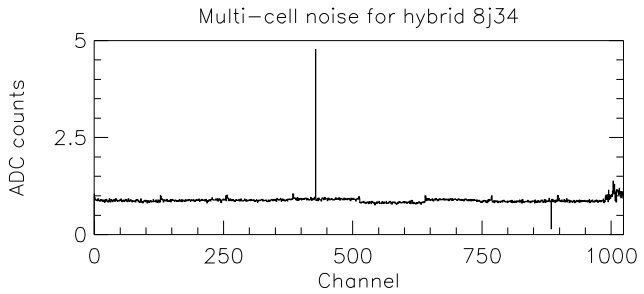


6 Noise

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

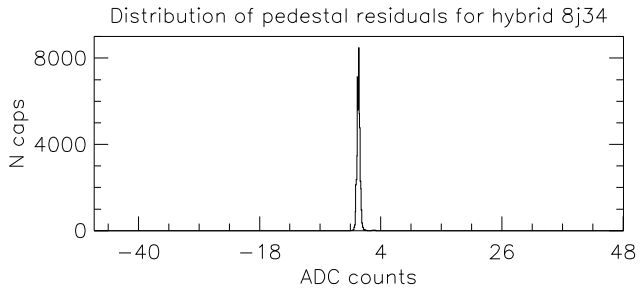
RMS Noise

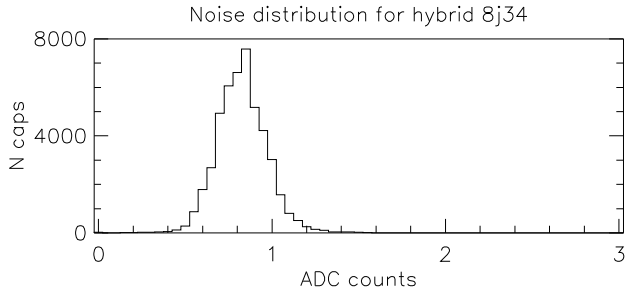




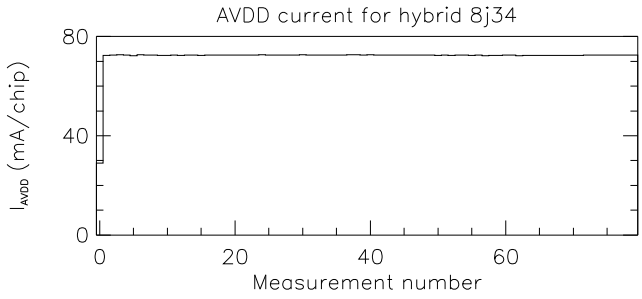
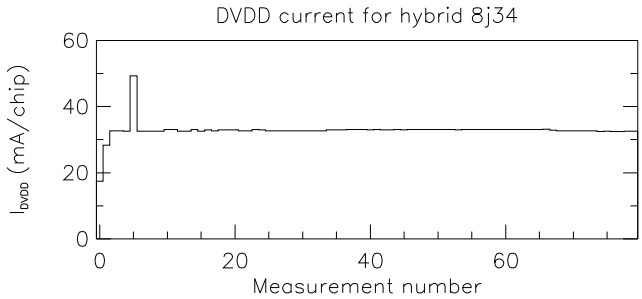
The following are histograms of the pedestal of each pipeline capacitor relative to the chip average (top); and the RMS noise of each capacitor (bottom):

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