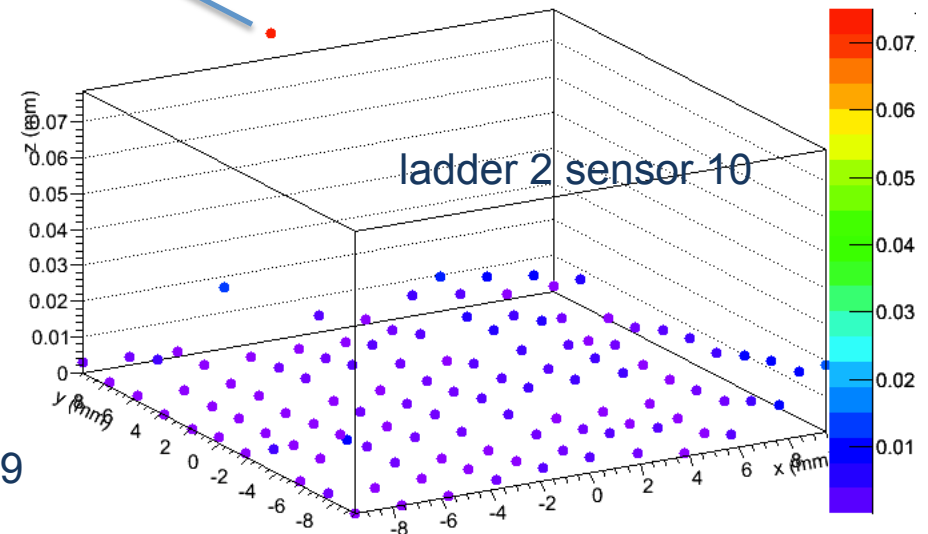
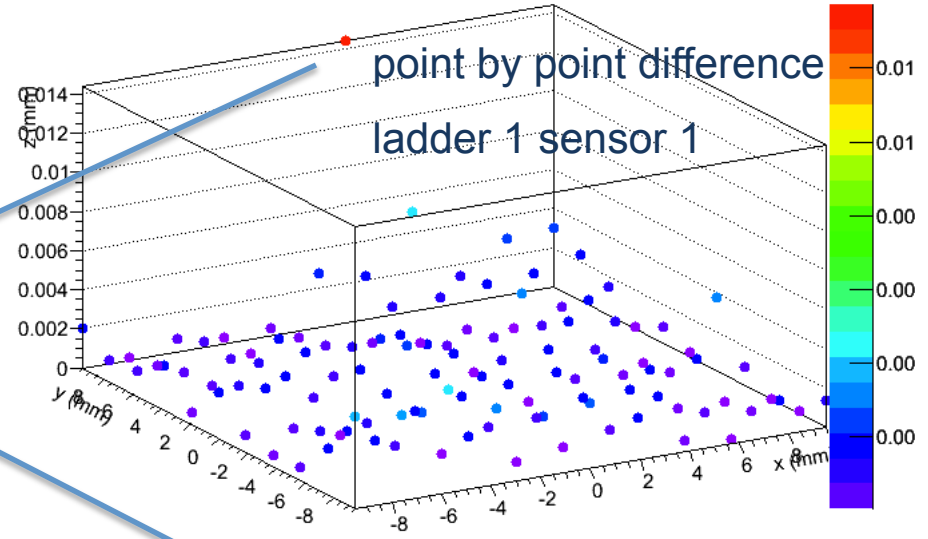
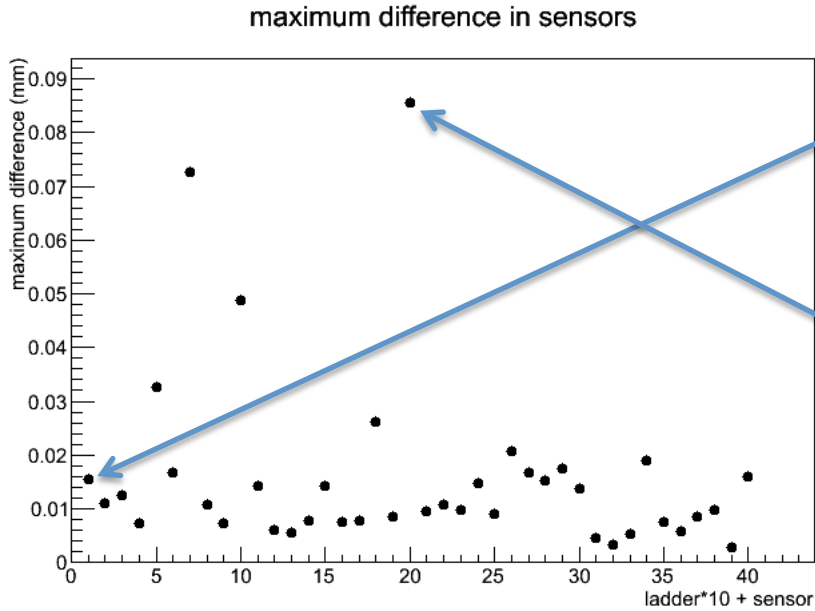


# PIXEL Survey Update

Qiu Hao

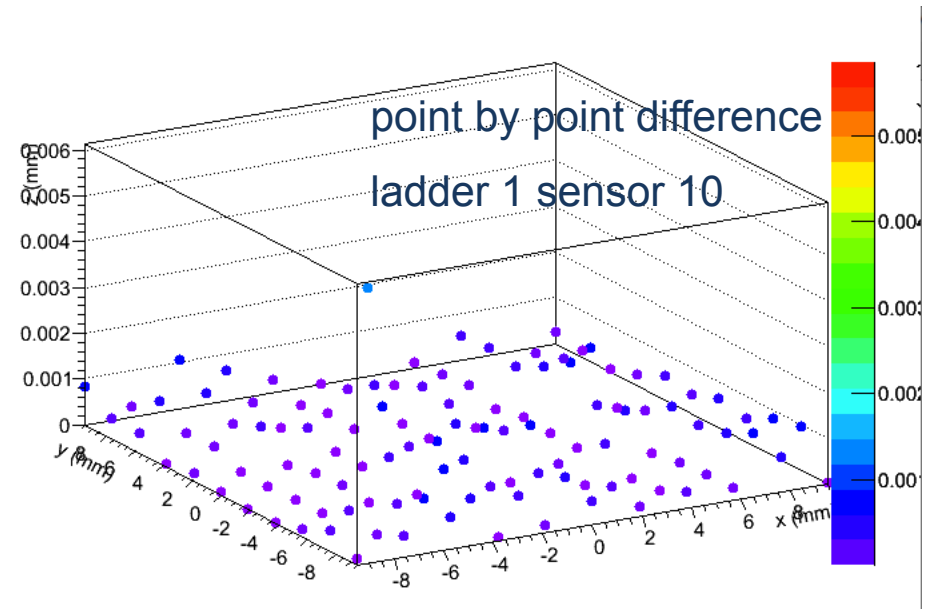
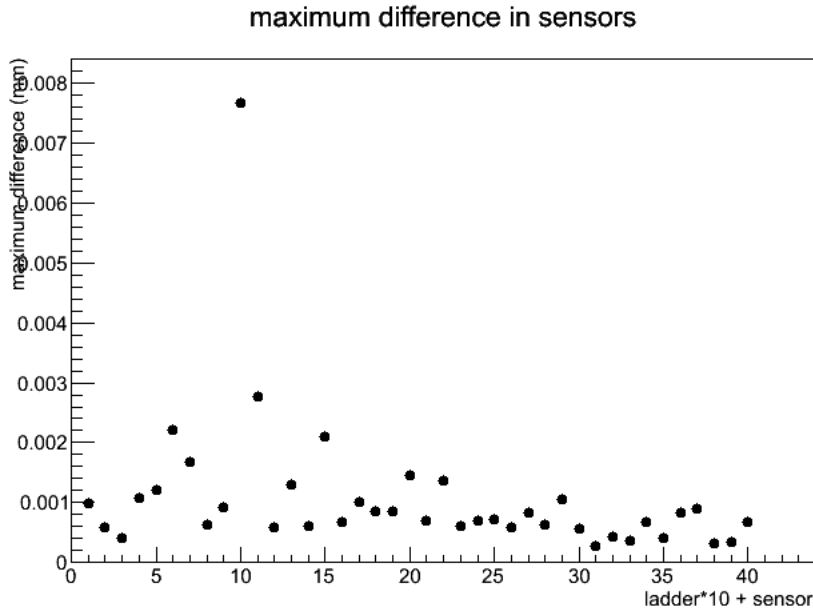
- sector 1 surveyed again after more than 1 month
- comparing the results with before

# Within Sensors



- comparing results from Mar 19 and Jan 29
- repeatable usually within 10 microns

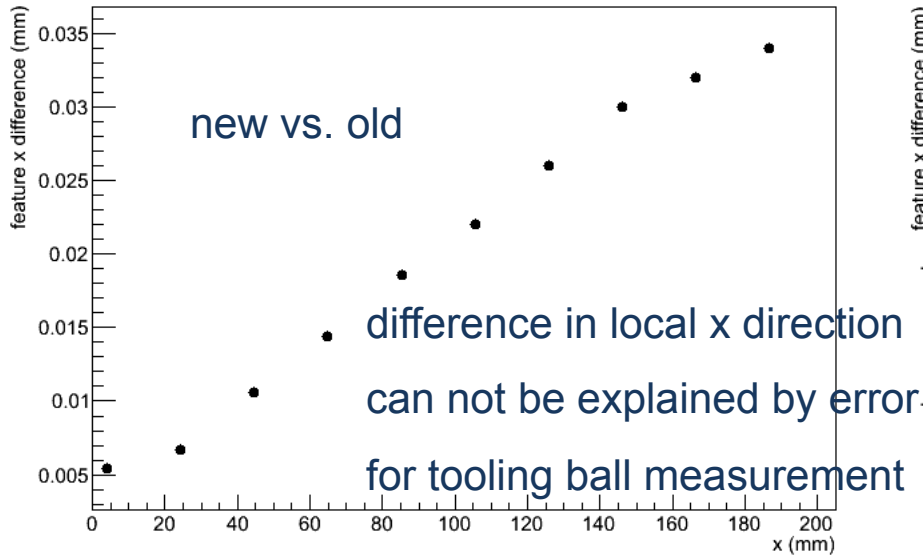
# Within Sensors



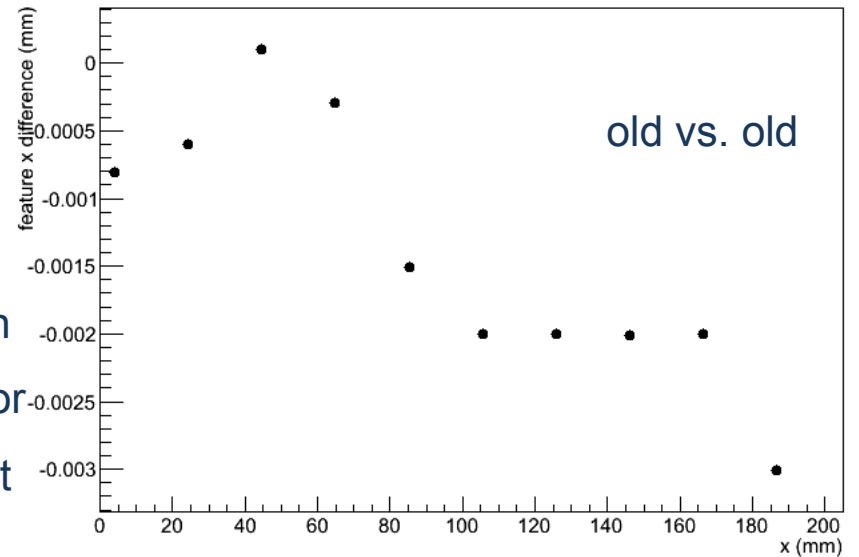
- comparing results from all 4 survey runs
- use the average of the nearest 2 measurements out of 4, to get rid of outliers
- the nearest 2 measurements are usually repeatable within several microns

# Feature Difference

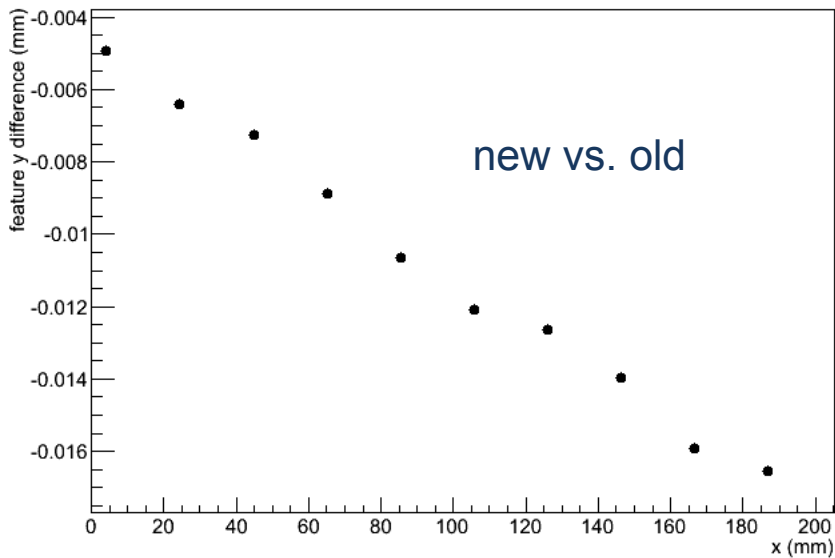
ladder 2



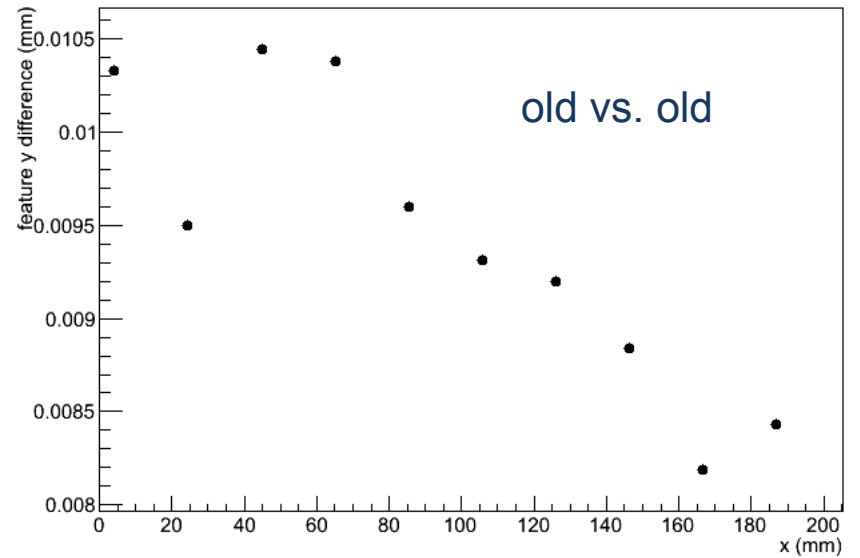
ladder 2



ladder 4

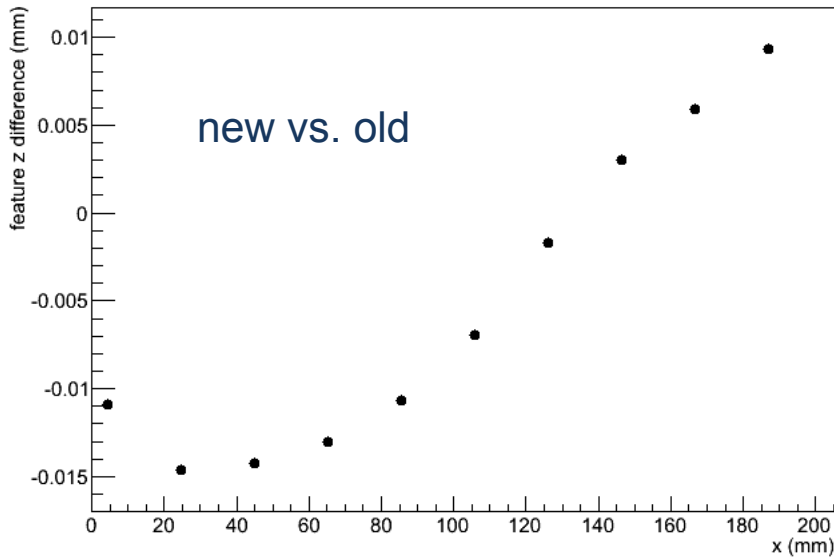


ladder 4

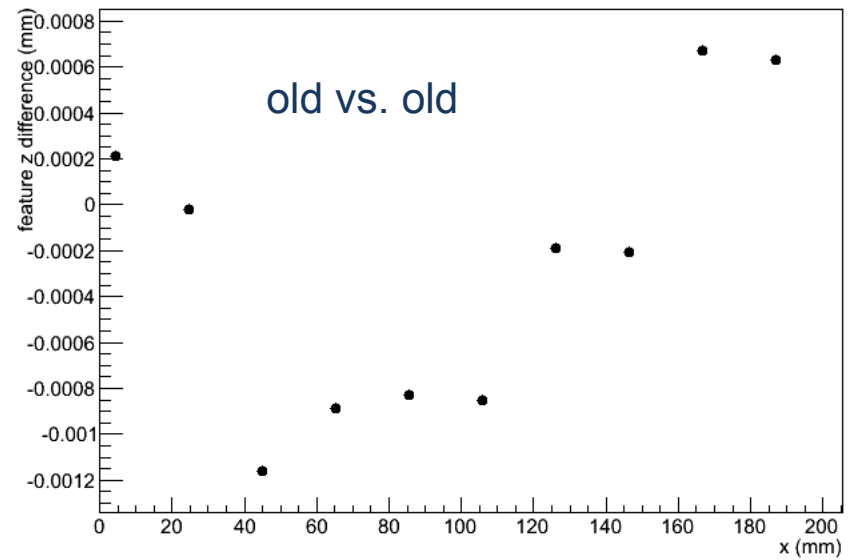


# Feature Difference

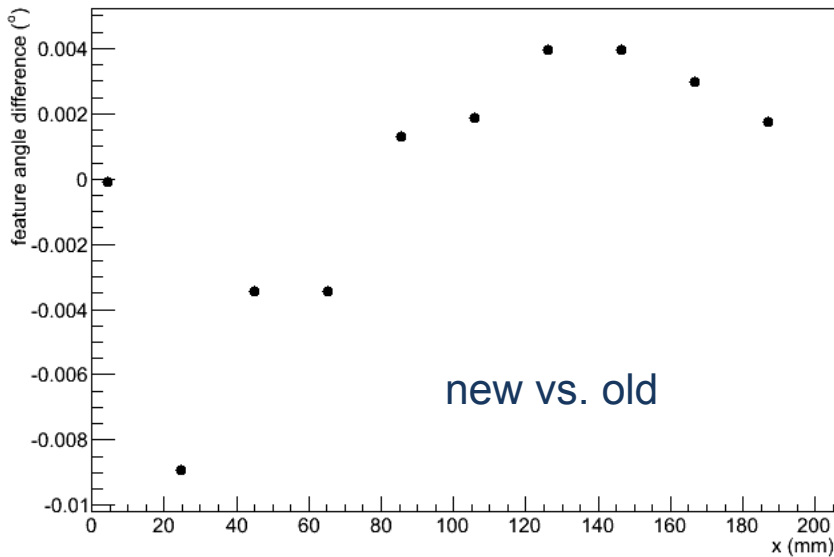
ladder 1



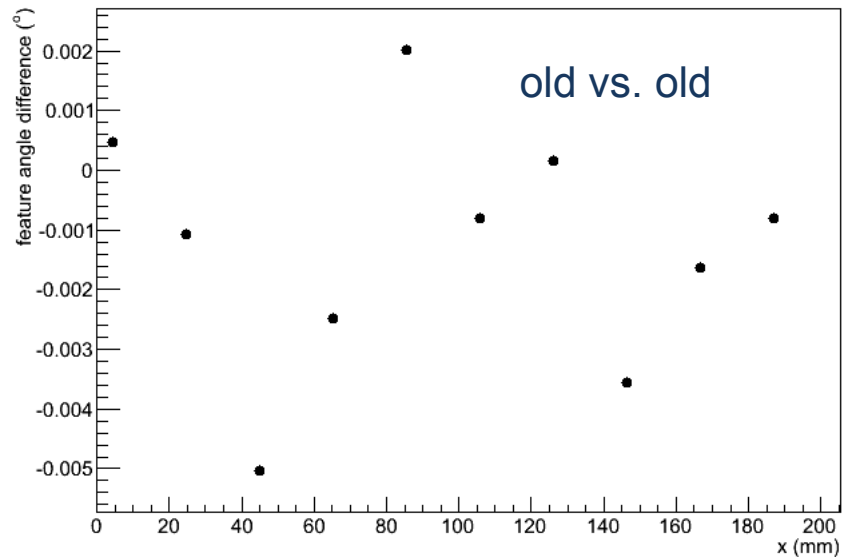
ladder 1



ladder 1



ladder 1



# Summary

- Within sensors, the difference is mostly within 10 microns, even after more than a month and moving the sector around and attaching/detaching cables...
- With no less than 3 survey runs for each sector, we can get rid of outliers by using the average of the nearest 2 measurements.
- Long range deformation up to 40 microns observed, which was not there by looking at the old sequential 3 survey runs.

**Thank you**

