

Analysis of the dot position

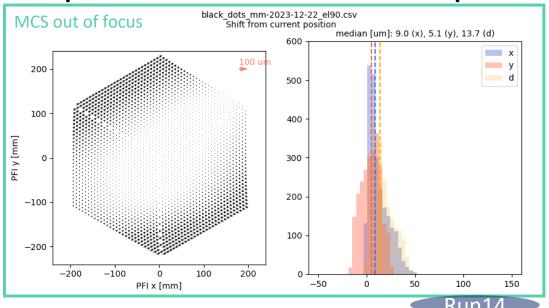
Yuki Moritani

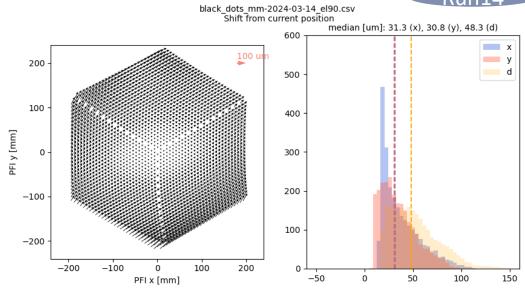
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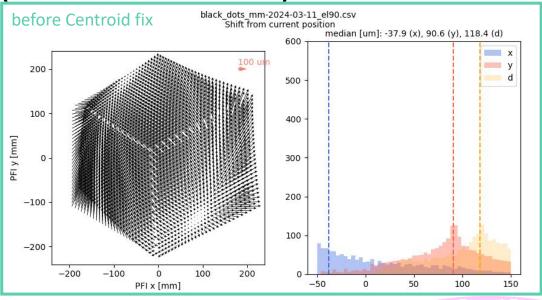
- Measured dot position since the run 14 (December 2023) was analyzed.
- The measured position at EL=90, InR=0 shows
 - Standard deviation of 10 samples are 10-15um.
 - Here, one measurement taken when MCS centroid had and issue was excluded, because measured position looks different from the others.
 - Another measurement in the same run show similar result to the others.
 - Compared to the current position, the new position looks shifted in the direction of (+x, +y) more or less.

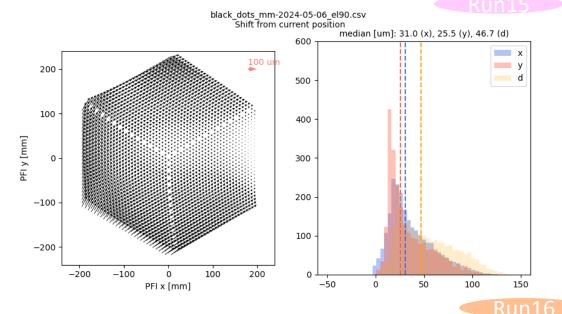
Position at EL=90, InR=0

Comparison to the current position (ver. 2022-09-23)

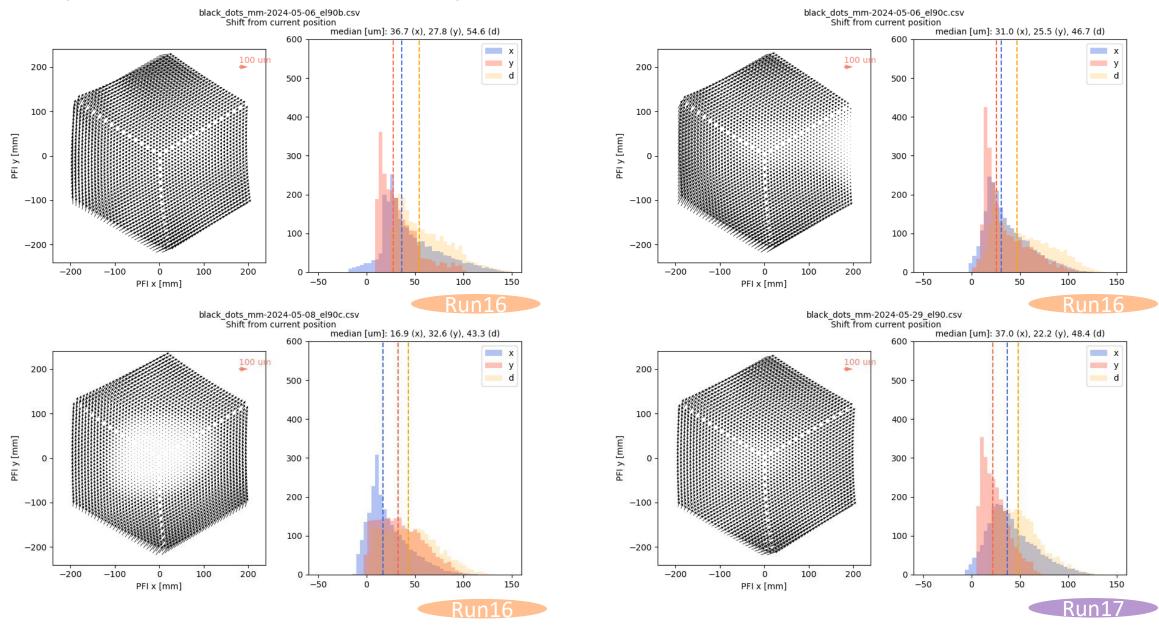




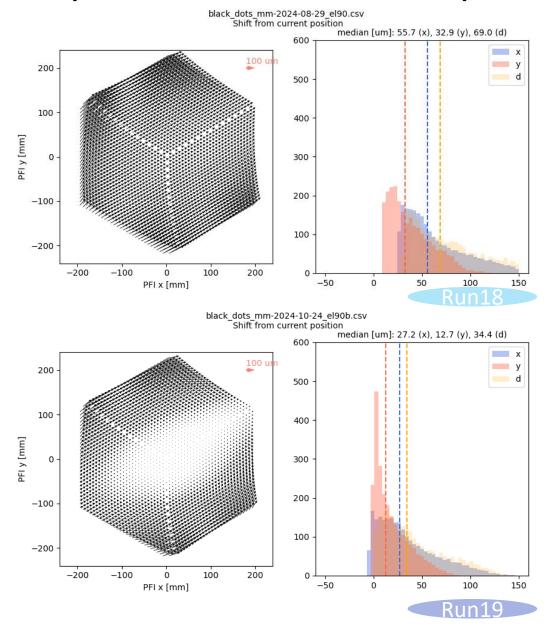


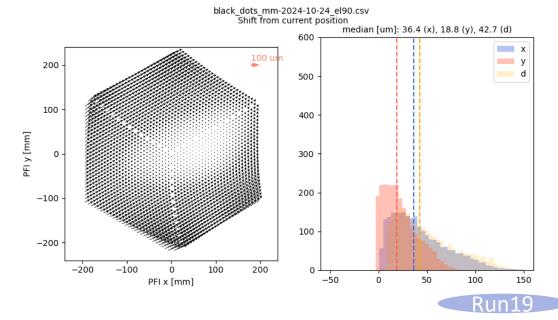


Comparison to the current position (ver. 2022-09-23), cont'd

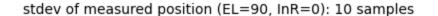


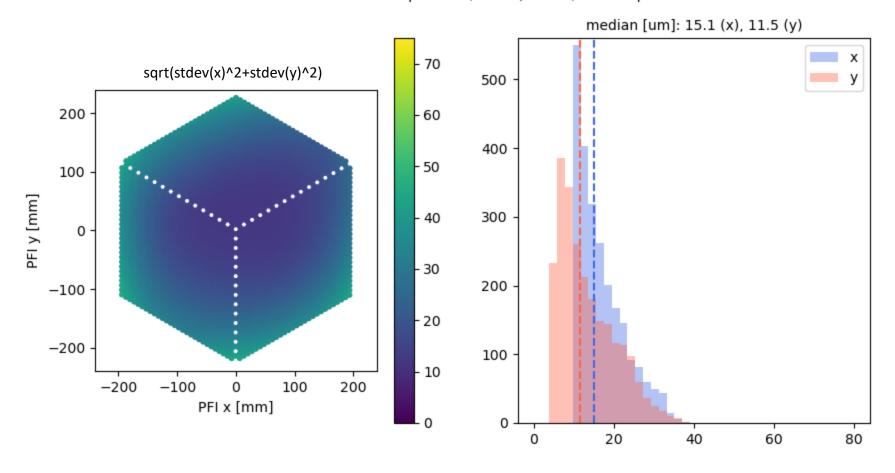
Comparison to the current position (ver. 2022-09-23), cont'd





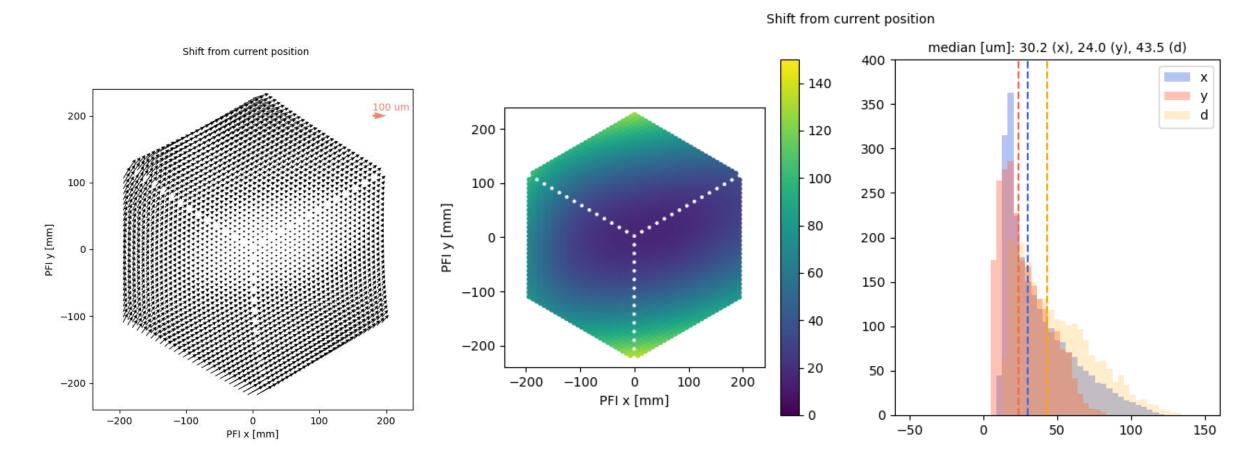
Variation in measured position in the previous run





Shift from the current position

The current position: ver. 2022-09-23 (Measured in June 2022, and corrected rotation/shift/scale)



Comparison between the current position and mean of measured position (10 samples). Entirely, the dot position seems to be in direction of (+x, +y). The difference around the field edge is up to ~100 um.

w/o data on 2024.03.11 (before centroid fix)