

# Cross-calibration BPM and wire scanners in undulator section

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## Goal:

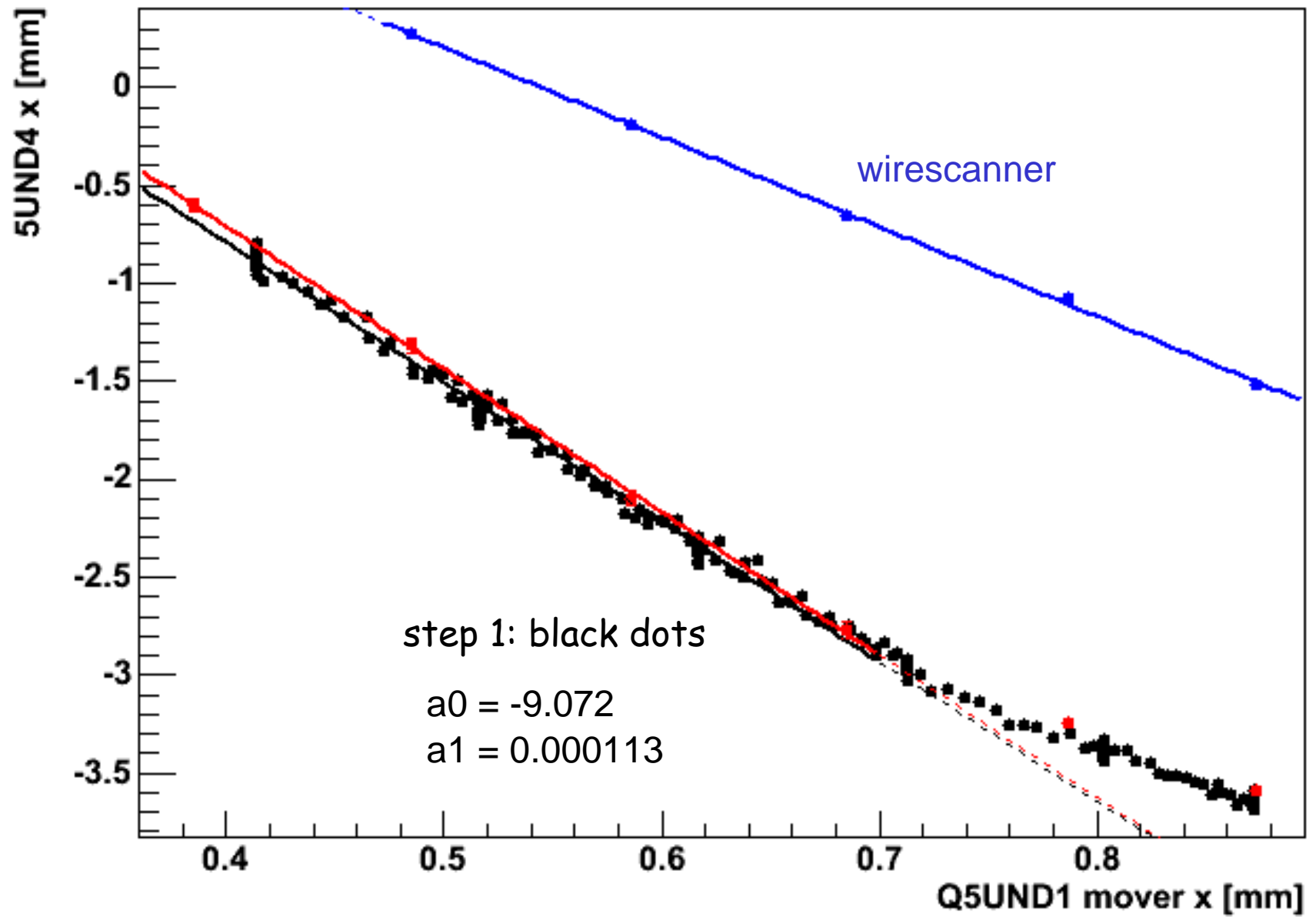
to calibrate BPM in diagnostics blocks to the absolute position of the wires

to improve the measurement and correction of the trajectory in undulator section

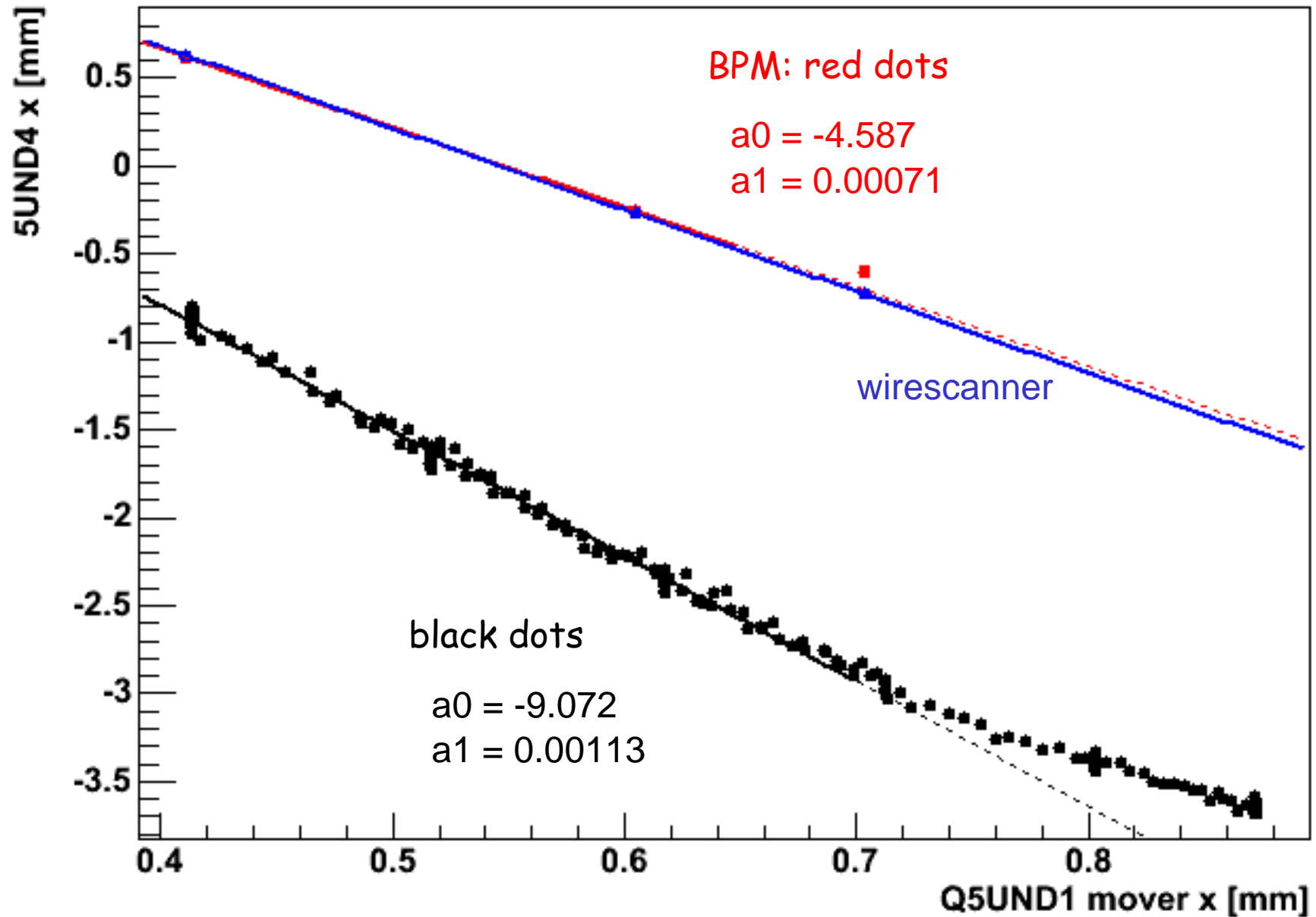
to improve the reproducibility of the trajectory in undulator section

# Procedure

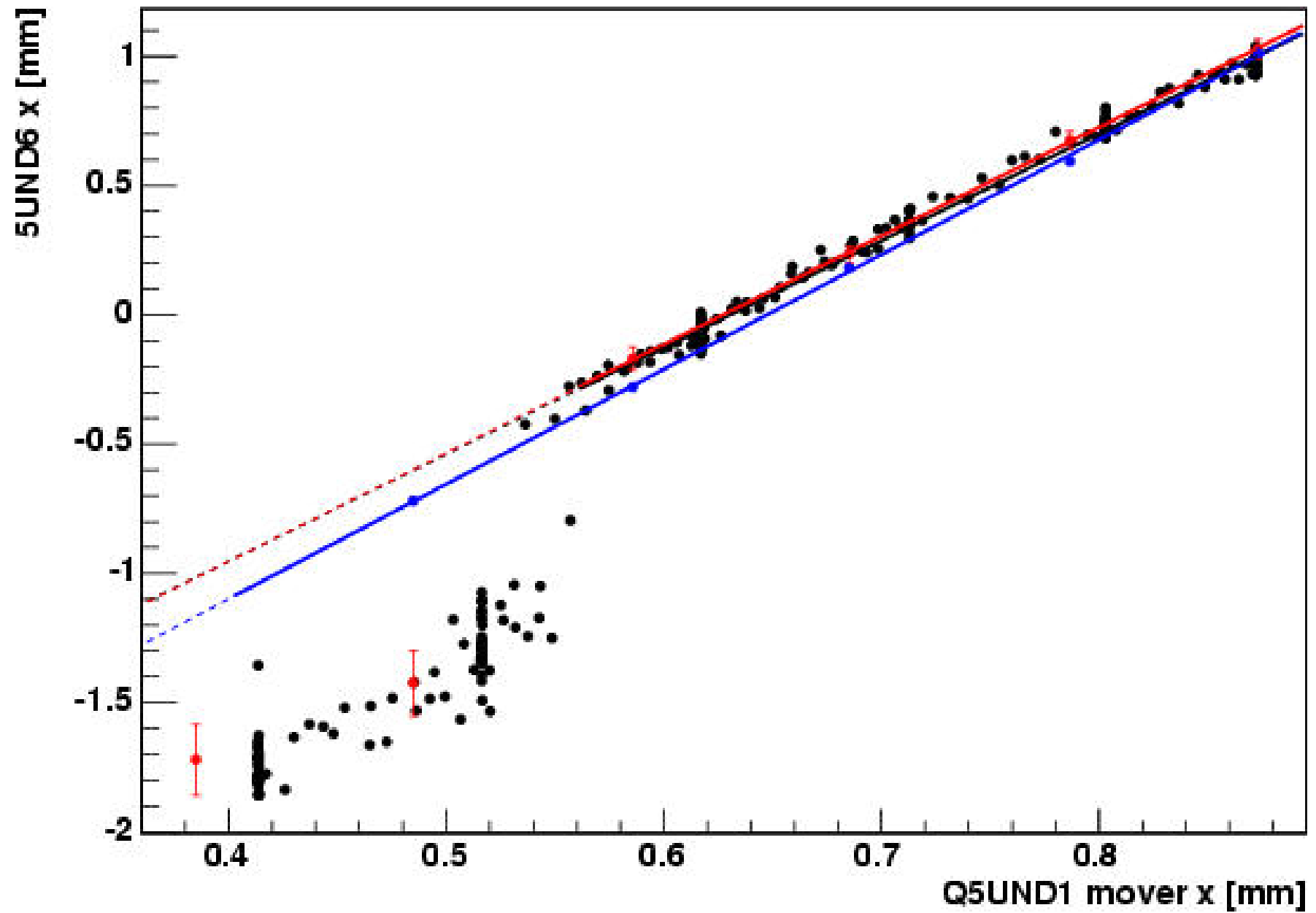
- **Step 1:**  
move beam and measure the full range of BPM
- **Step 2:**  
Take 5-7 points in the linear range of BPM:  
Take wirescans and compare with BPM data



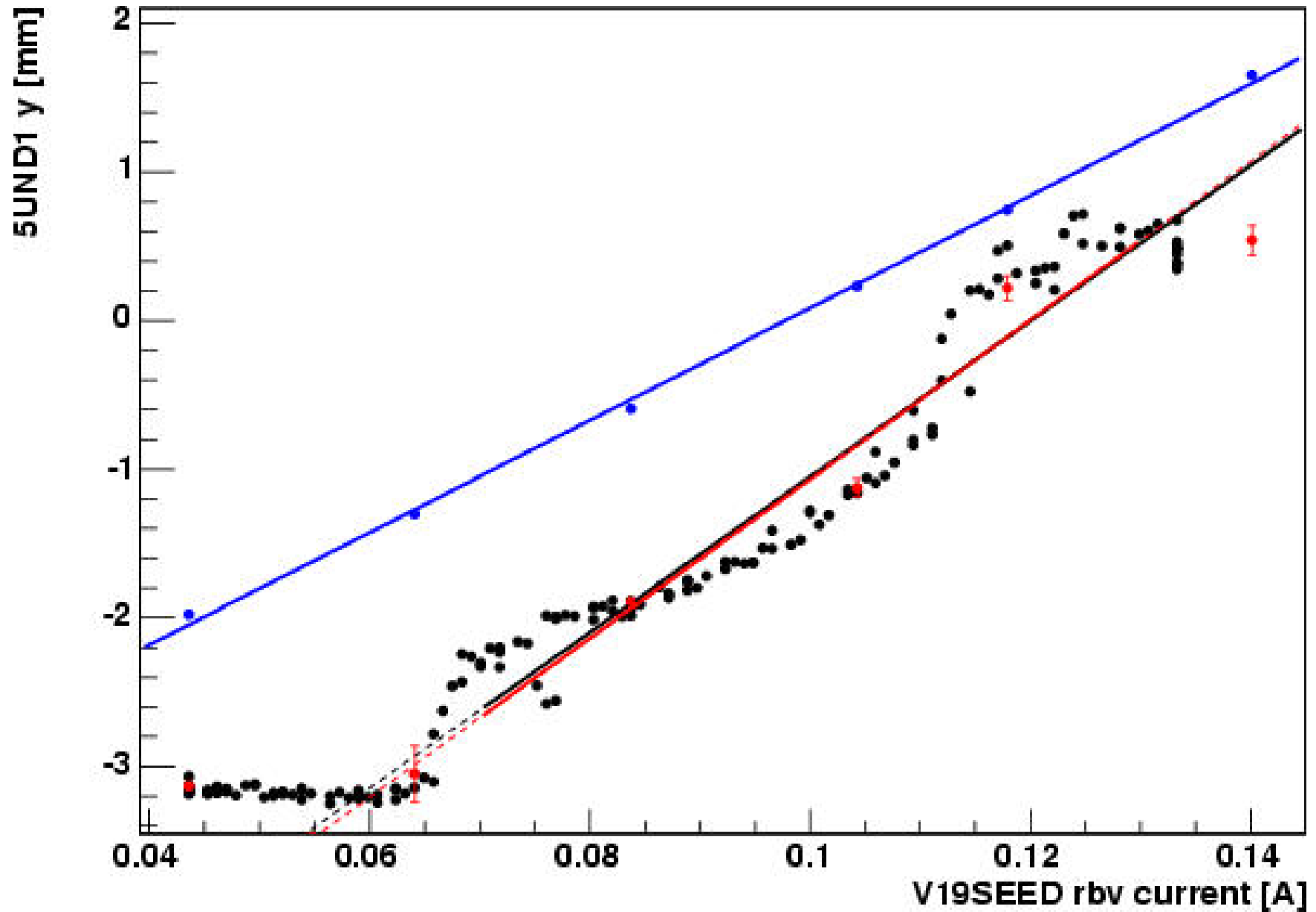
after new calibration applied: we checked with 3 points



# BPM 5UND5 (hor. plane)



# BPM 5UND1 (ver. plane)



# BPM 5UND1 (hor. plane)

