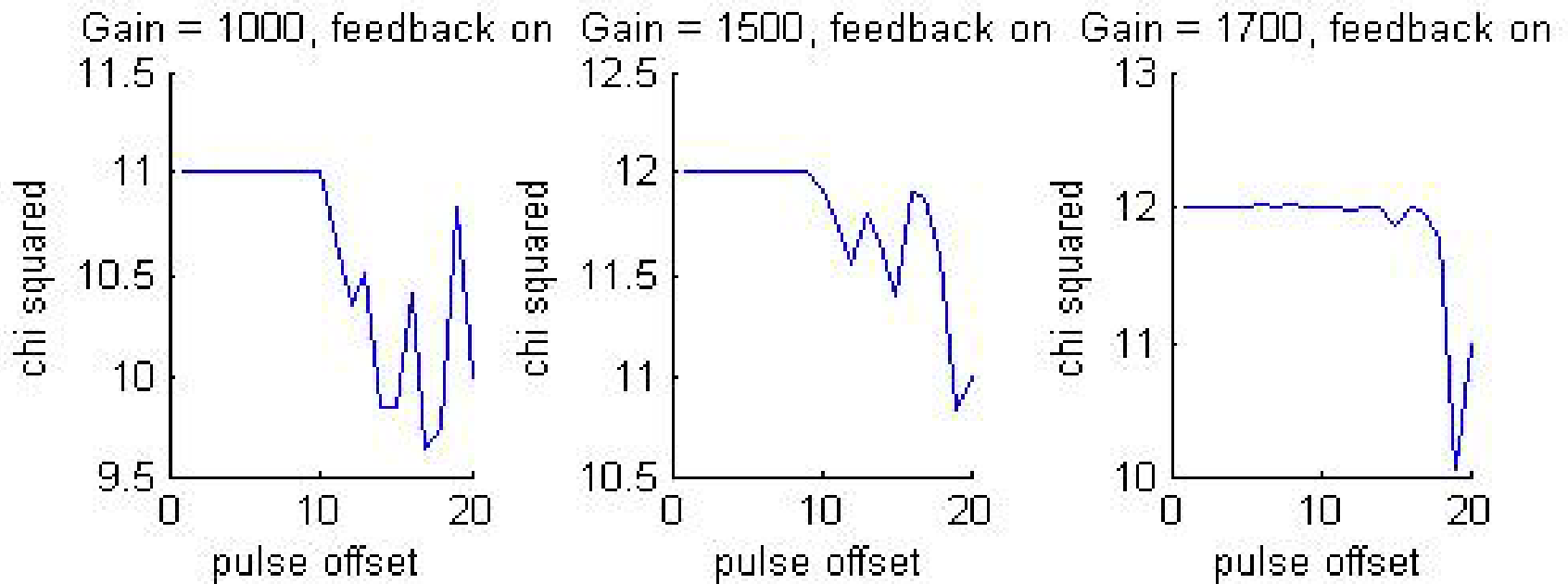
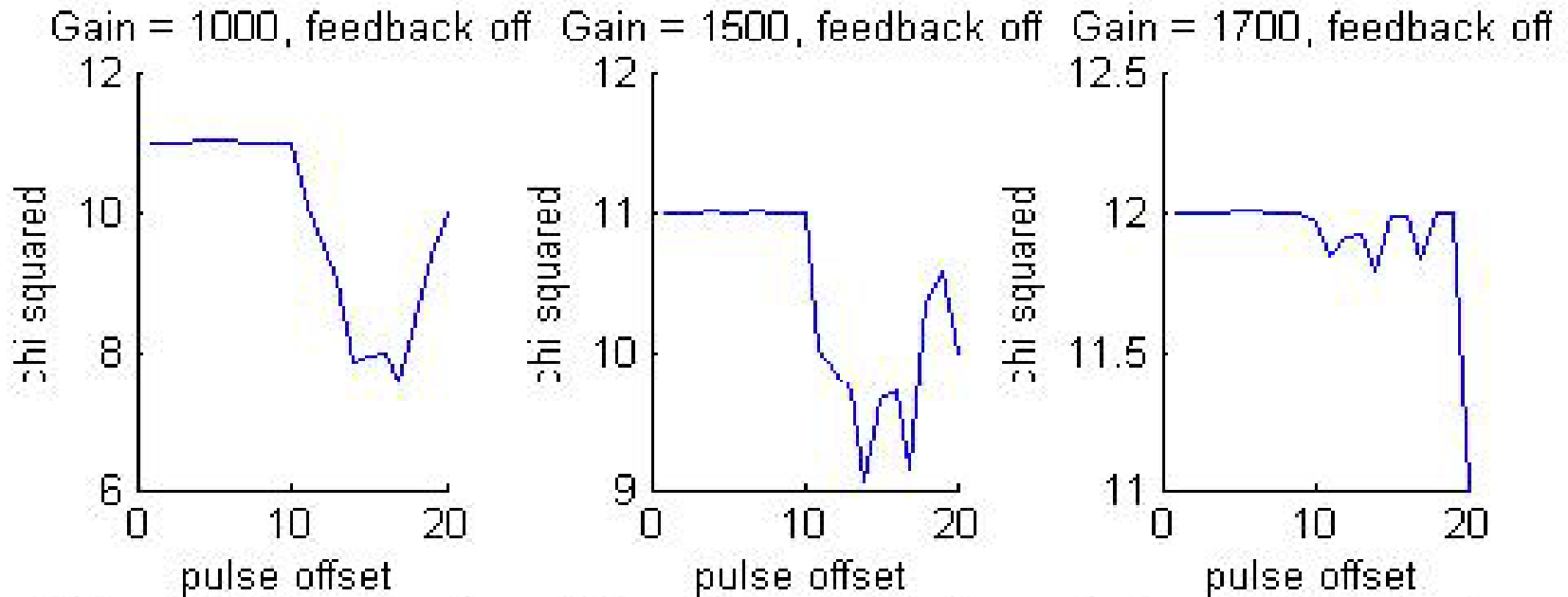
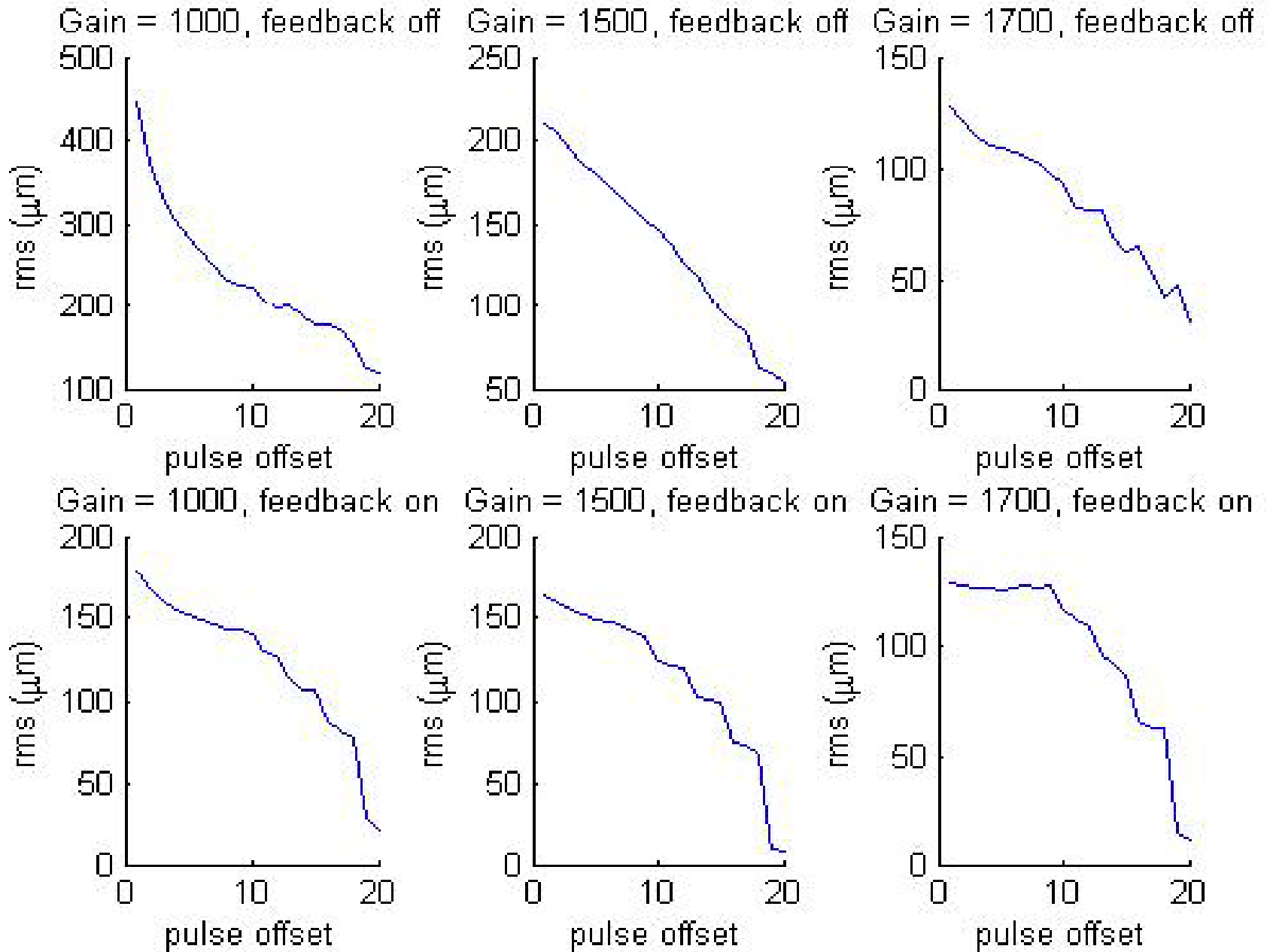


# Matching analogue and digital data

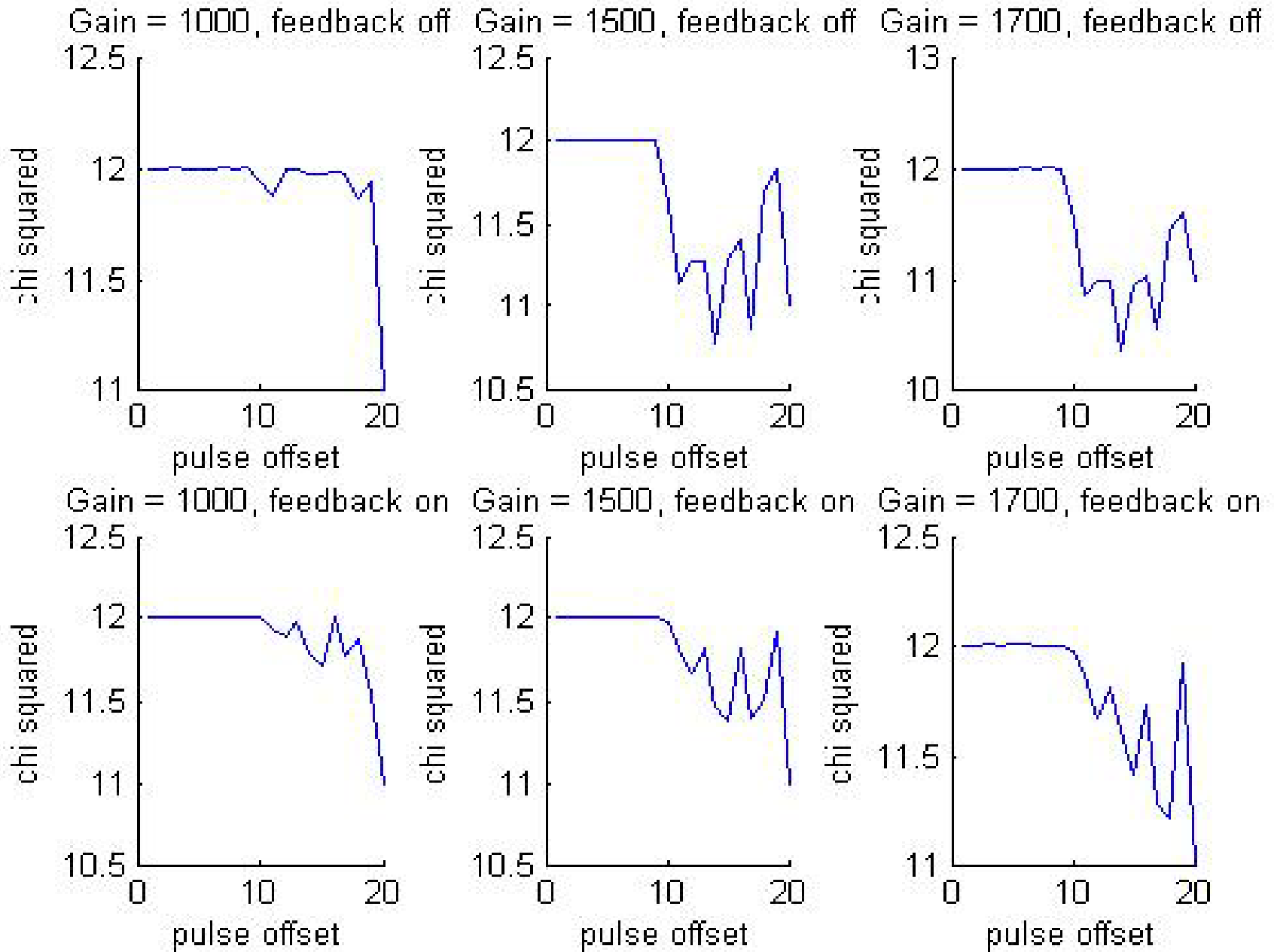
# Magnet current: 220mA



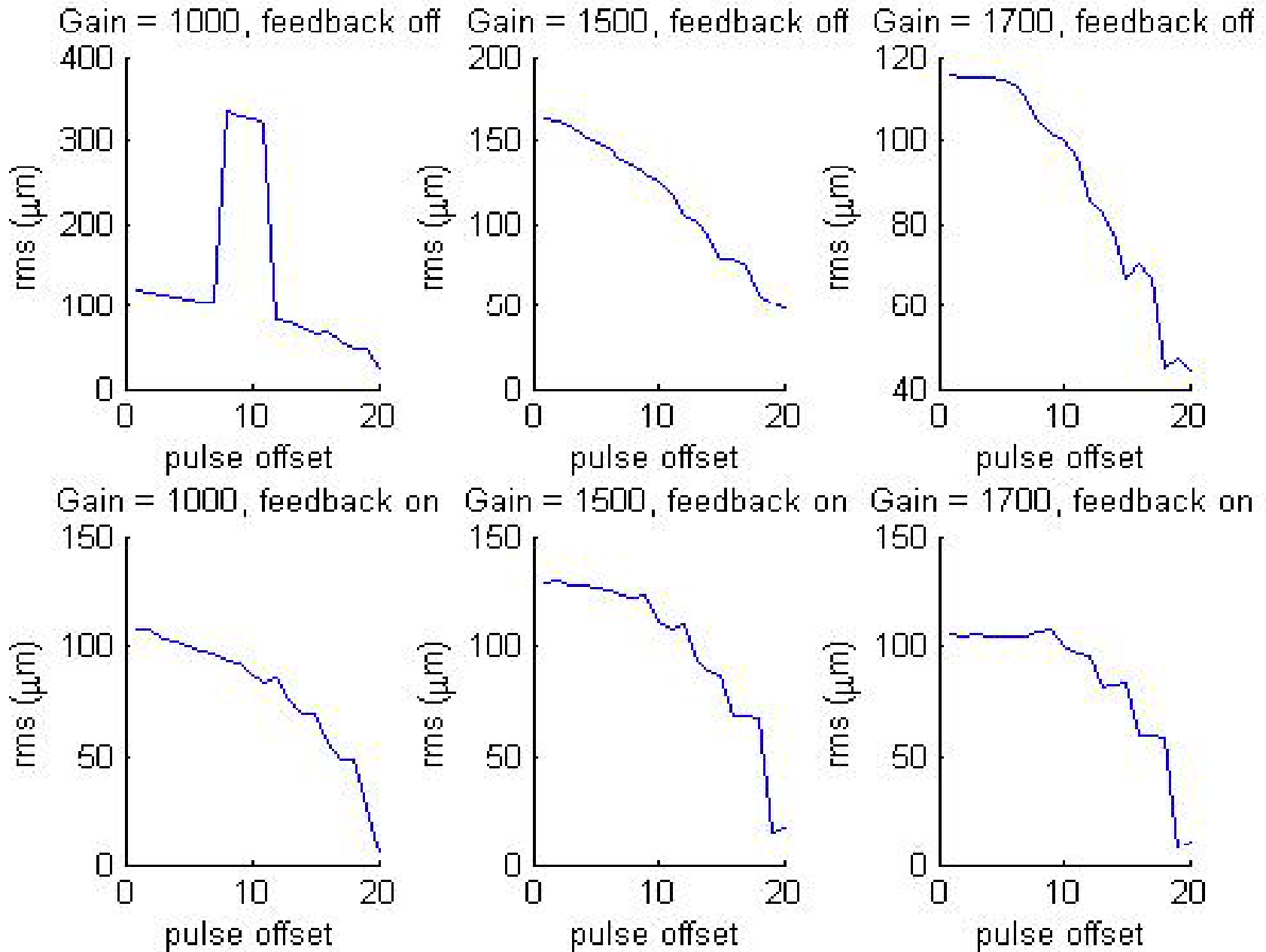
# Magnet current: 220mA



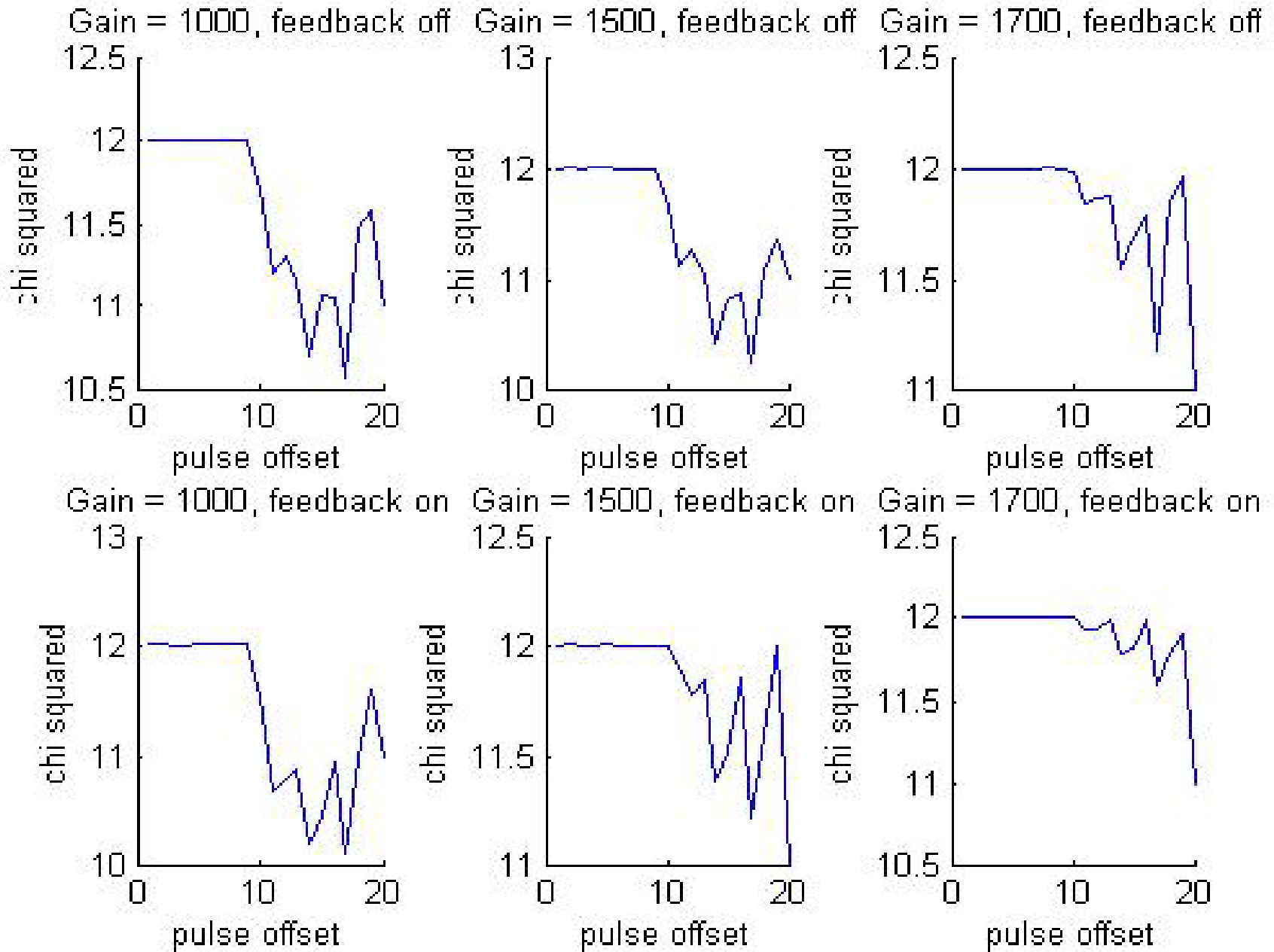
# Magnet current: 245mA



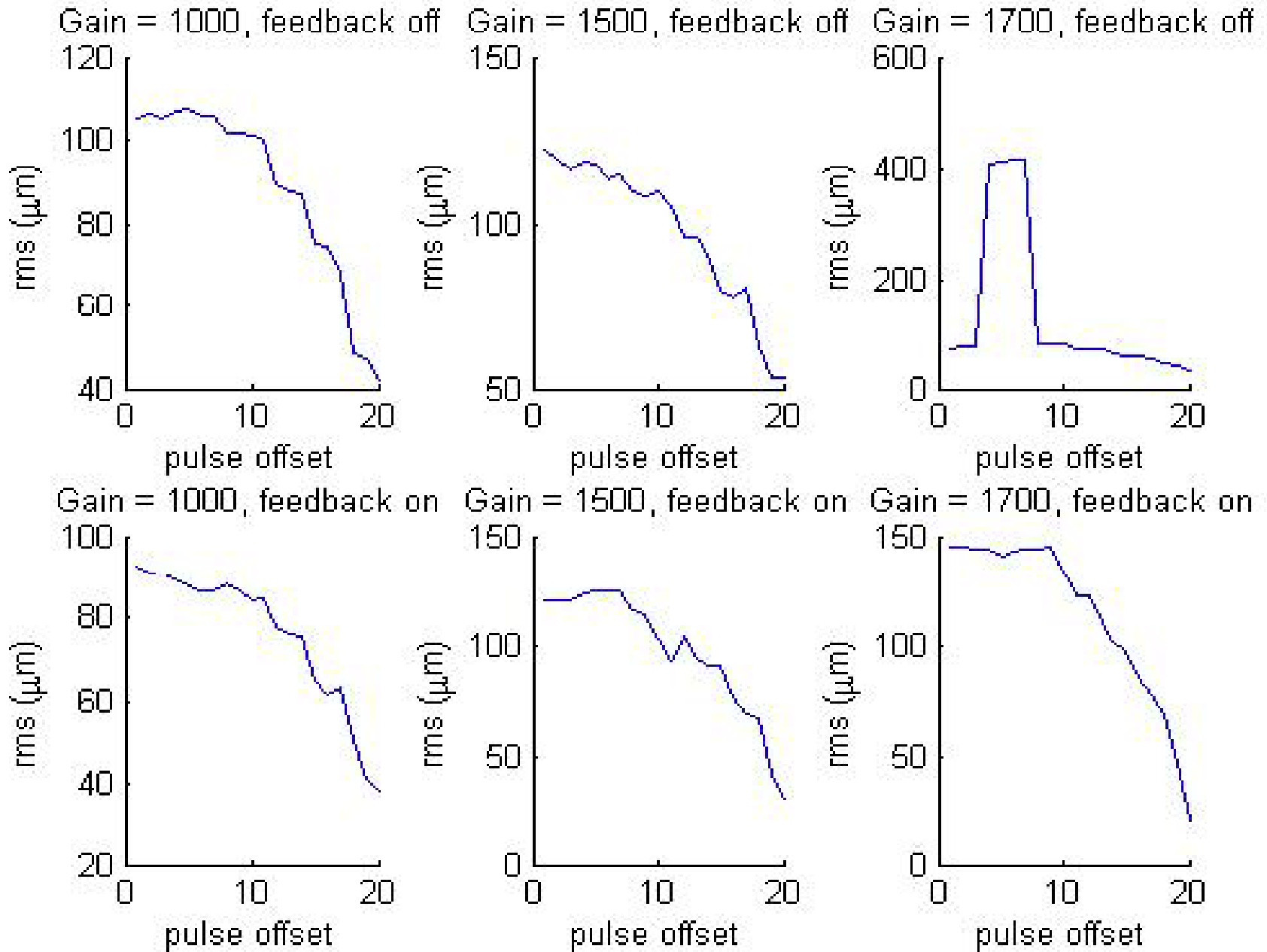
# Magnet current: 245mA



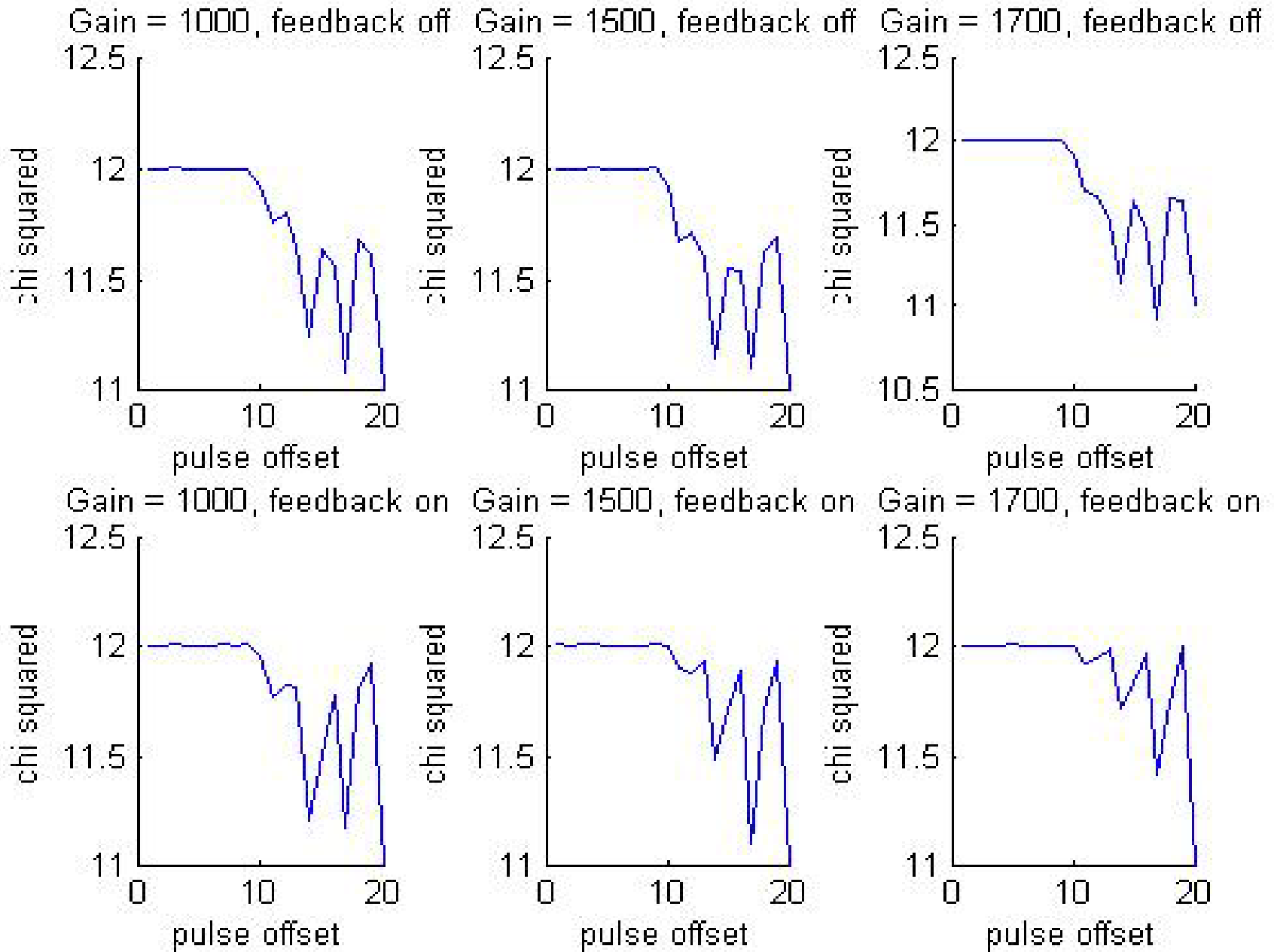
# Magnet current: 270mA



# Magnet current: 270mA

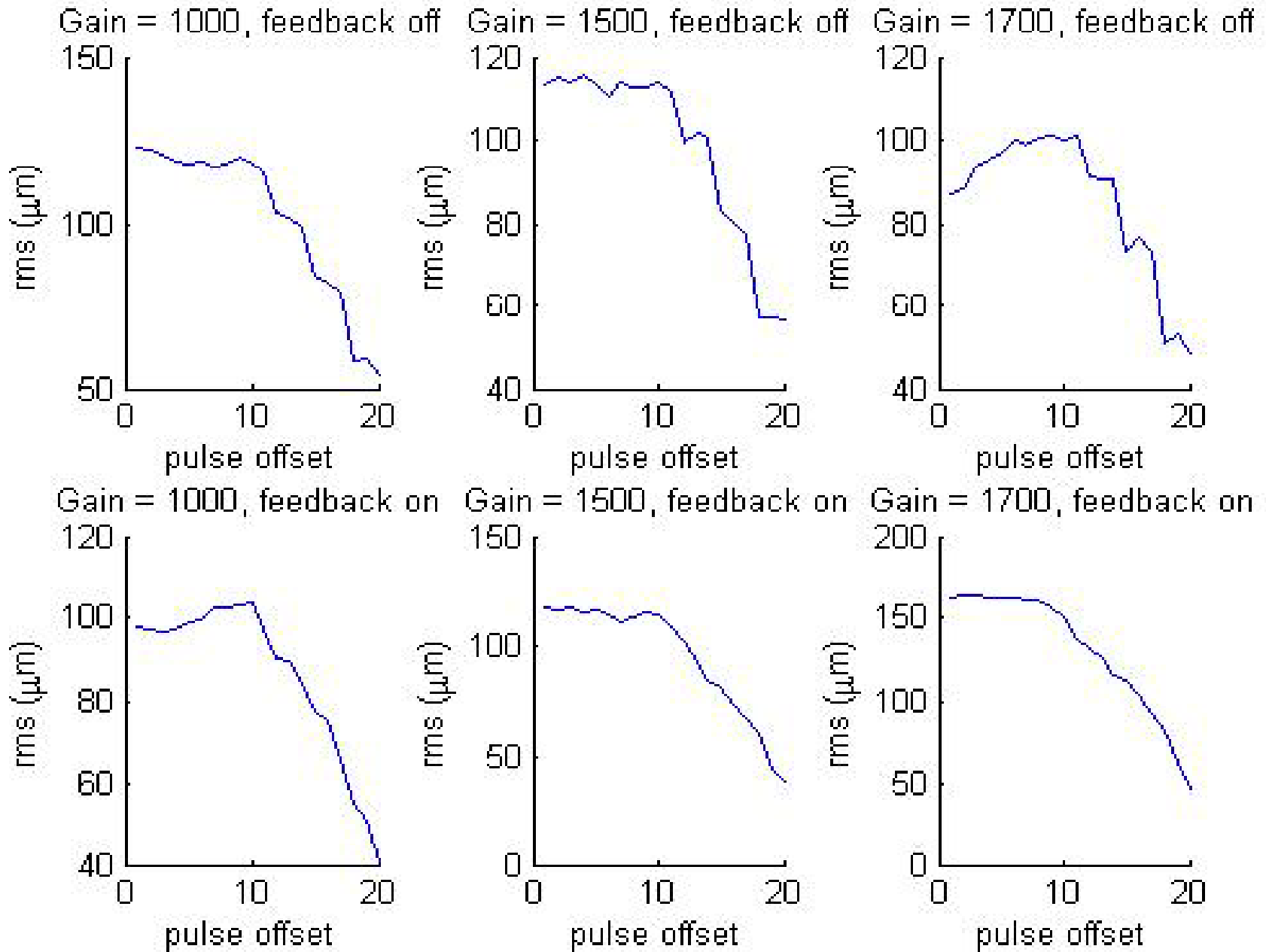


# Magnet current: 295mA

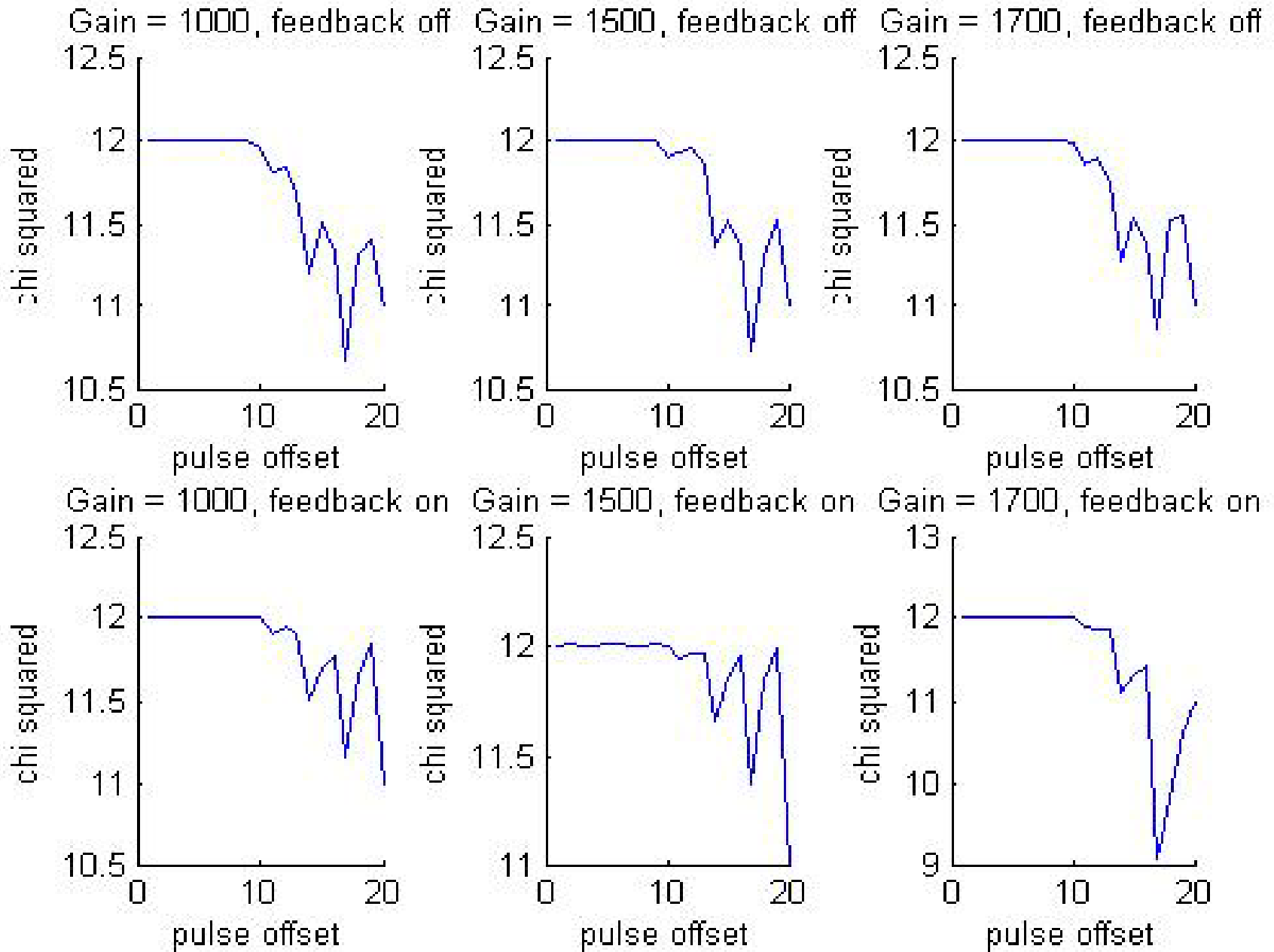




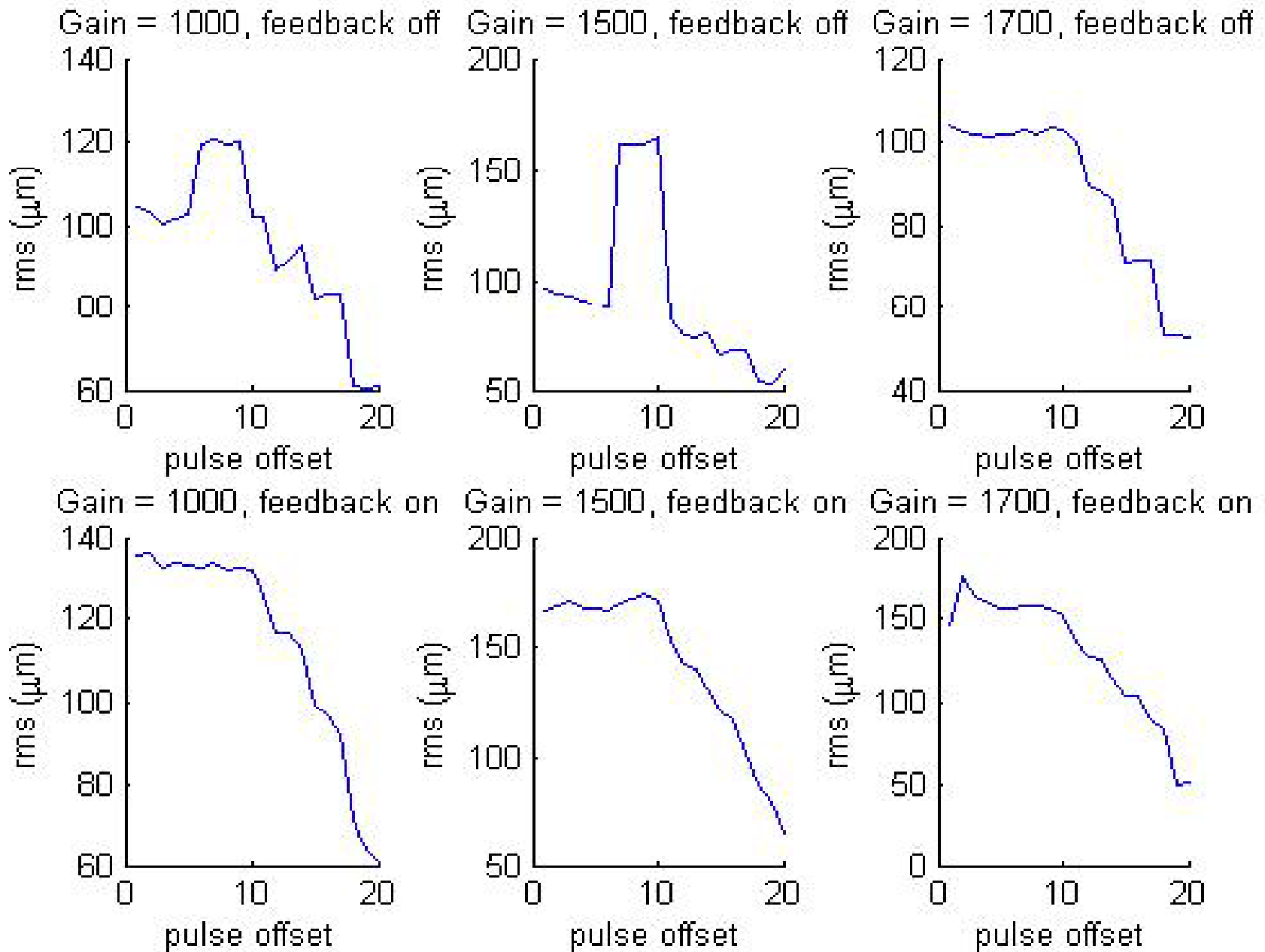
# Magnet current: 295mA



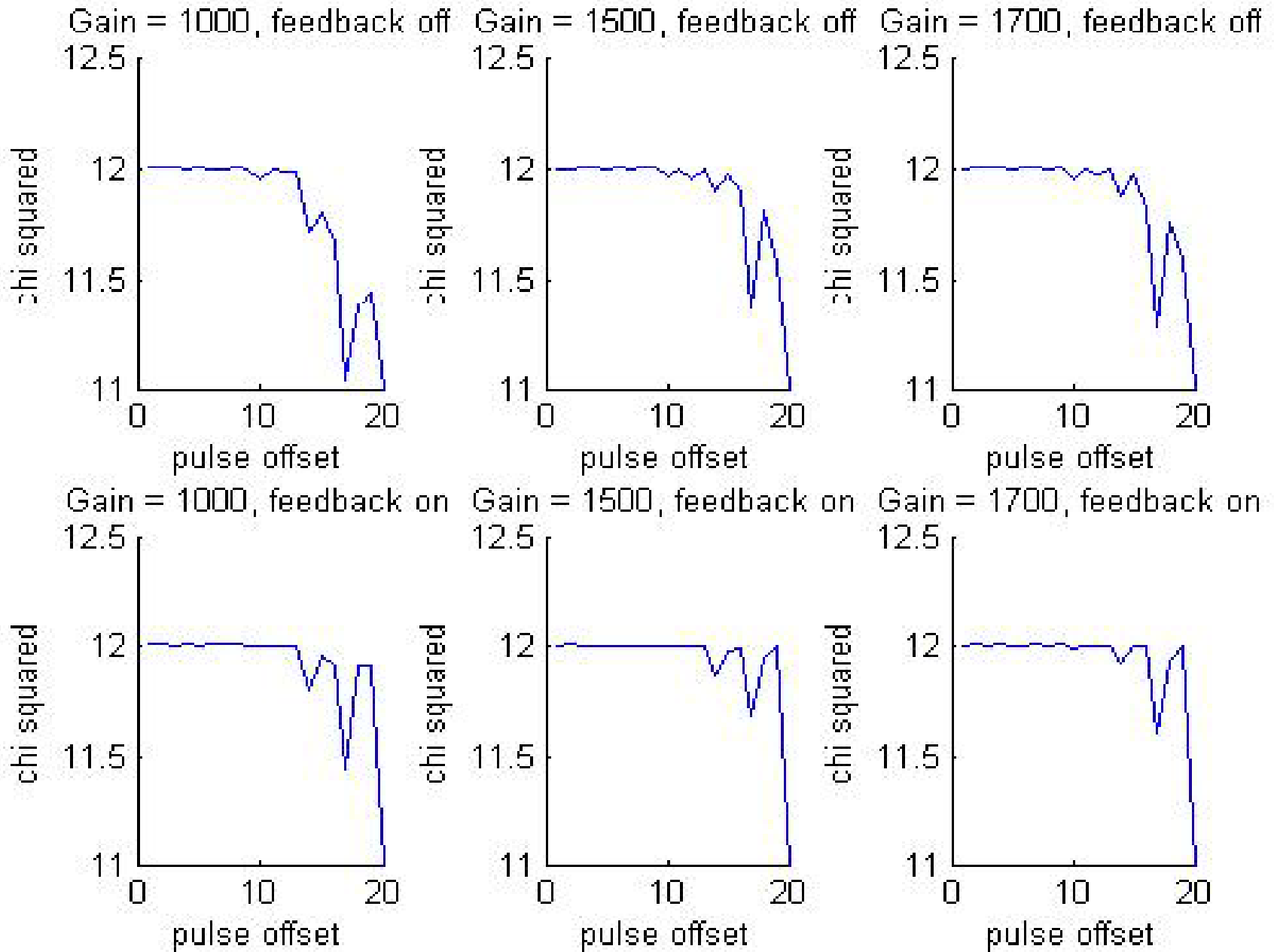
# Magnet current: 320mA



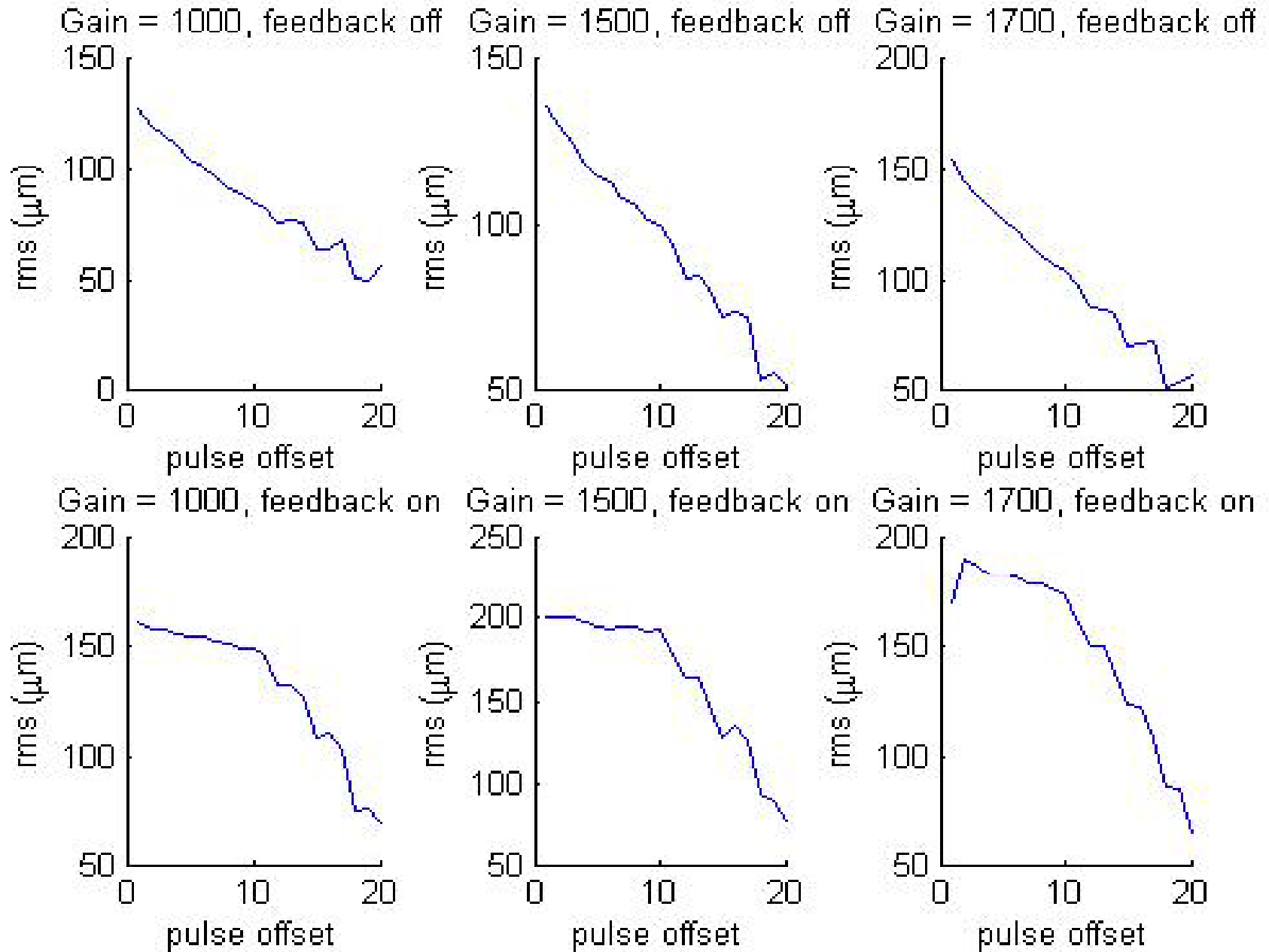
# Magnet current: 320mA



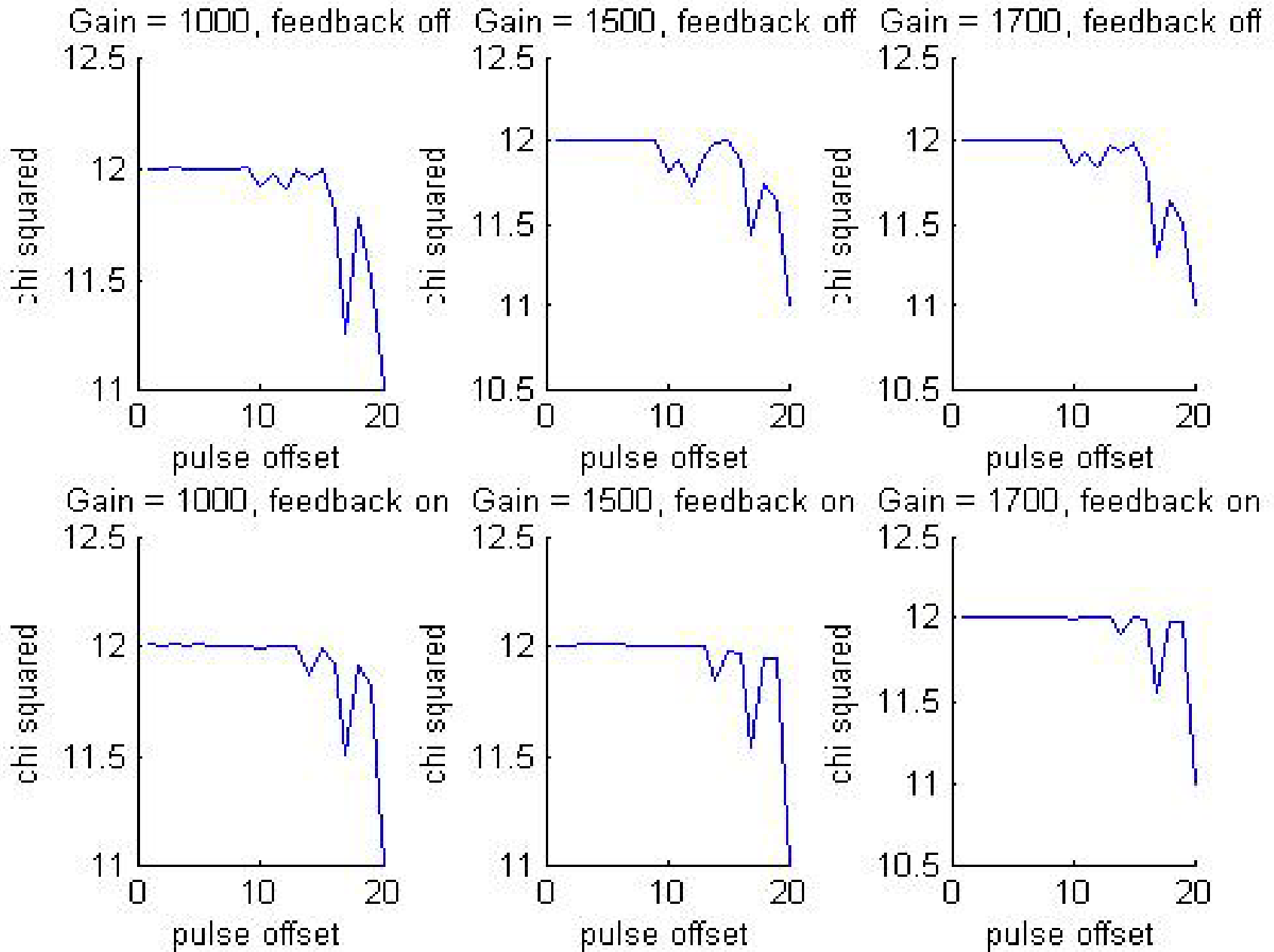
# Magnet current: 350mA



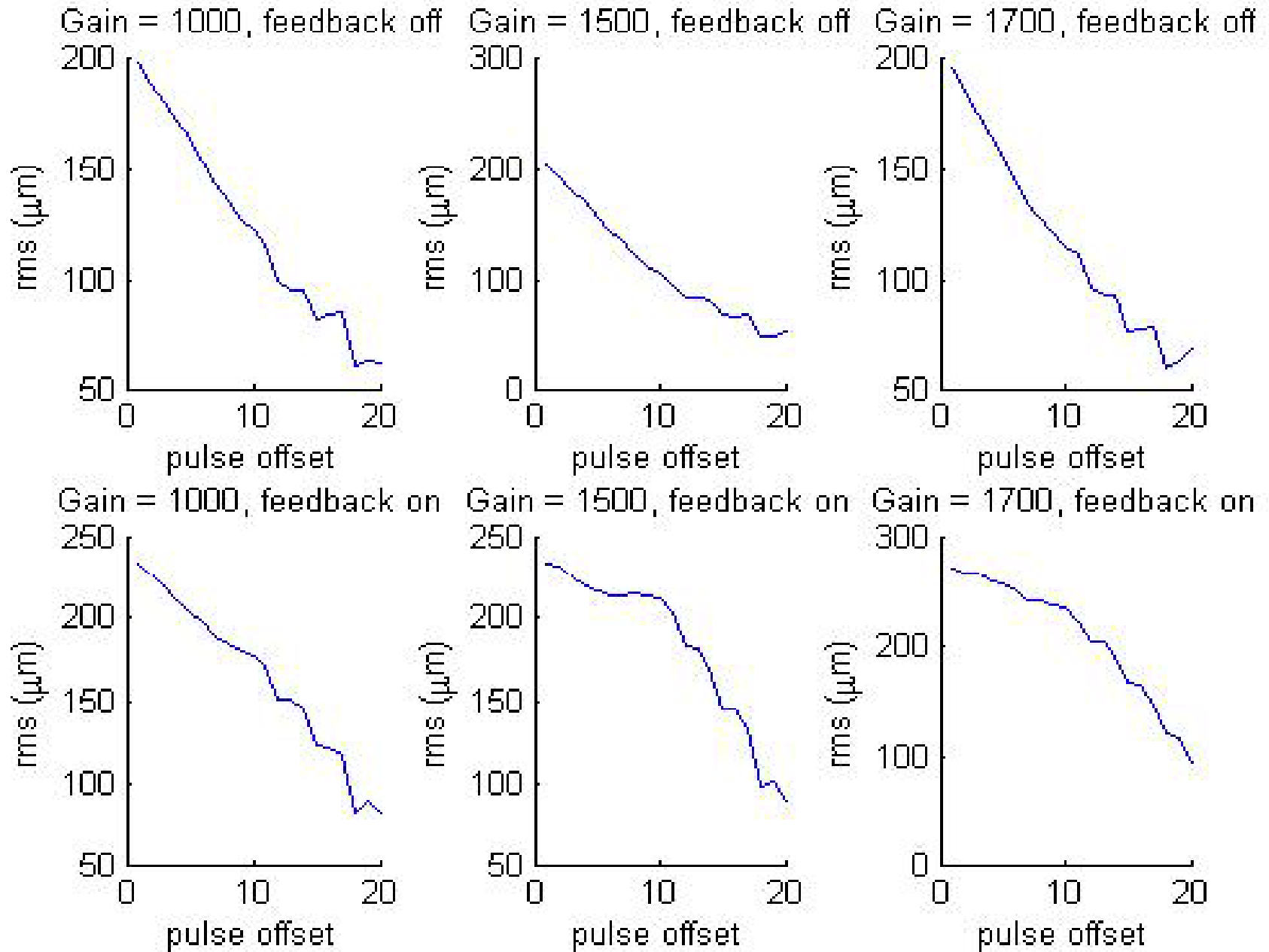
# Magnet current: 350mA



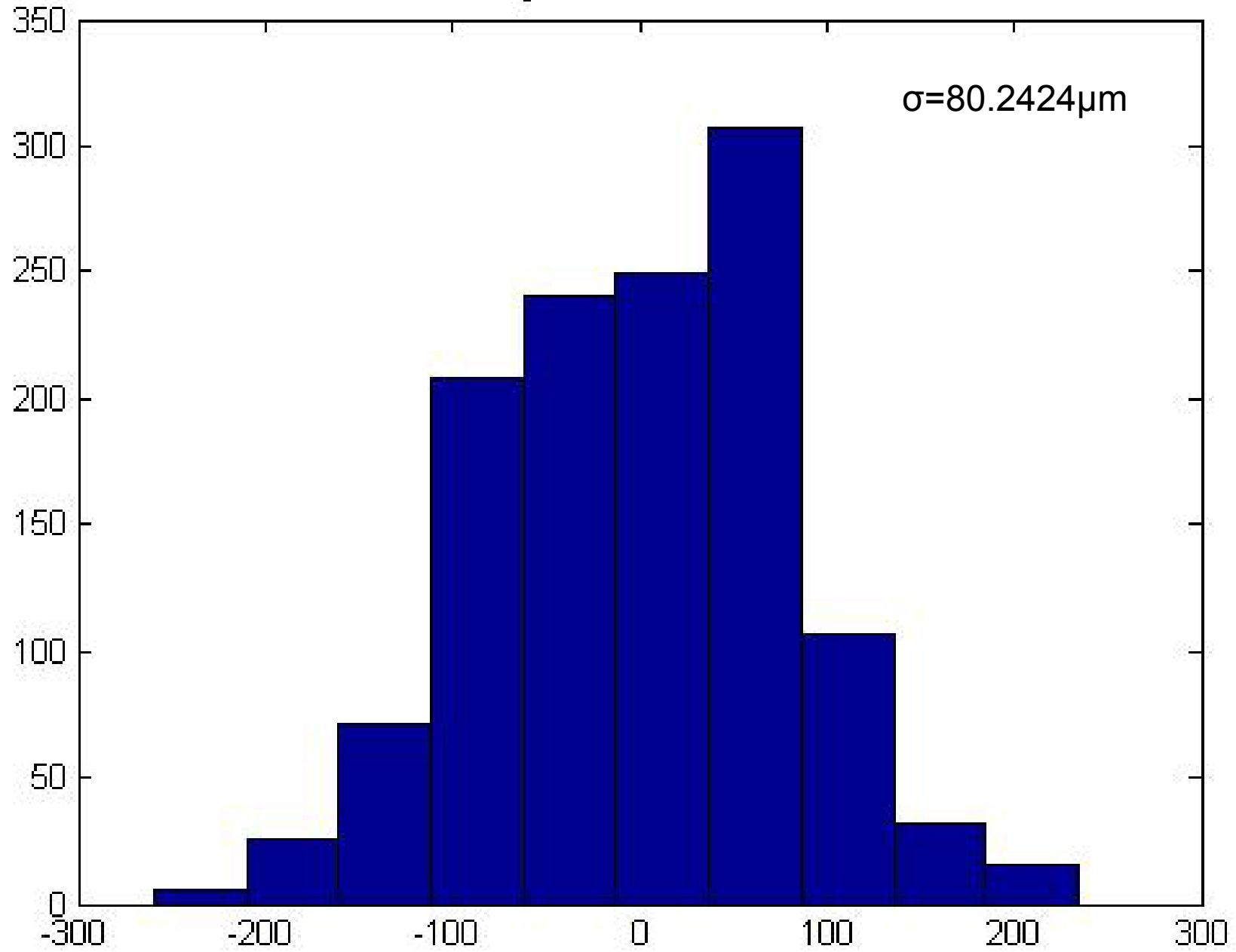
# Magnet current: 380mA



# Magnet current: 380mA

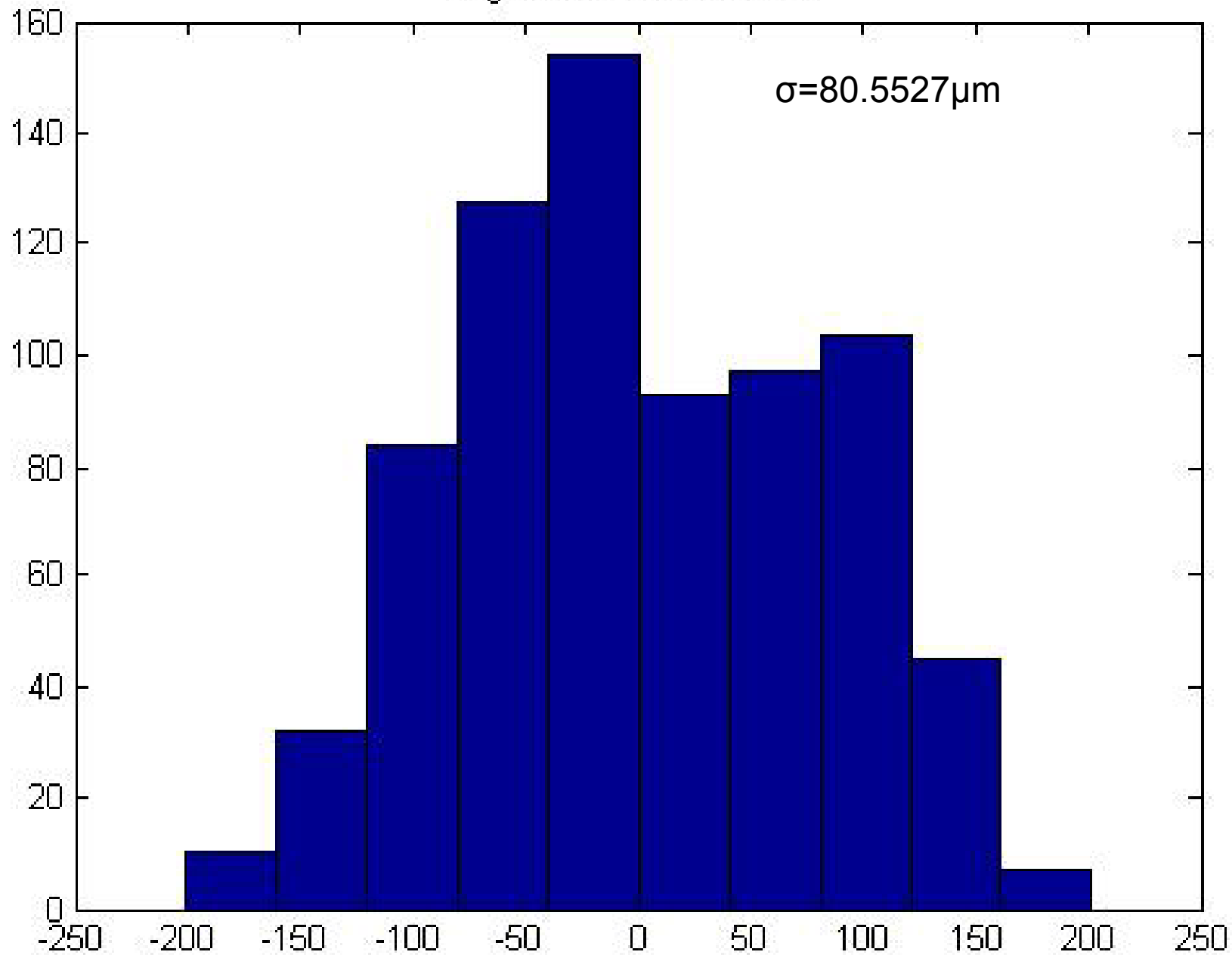


Analogue beam distribution





Digital beam distribution



# Conclusions

- If beam jitter of the order of the resolution of the processors then analogue and digital data cannot be matched.
- Analogue resolution  $\sim 10\mu\text{m}$
- Digital resolution  $\sim 1\mu\text{m}$ , I think...
- Matching should be possible
  - Need to debug the code more
- Matching needed for processor offset analysis