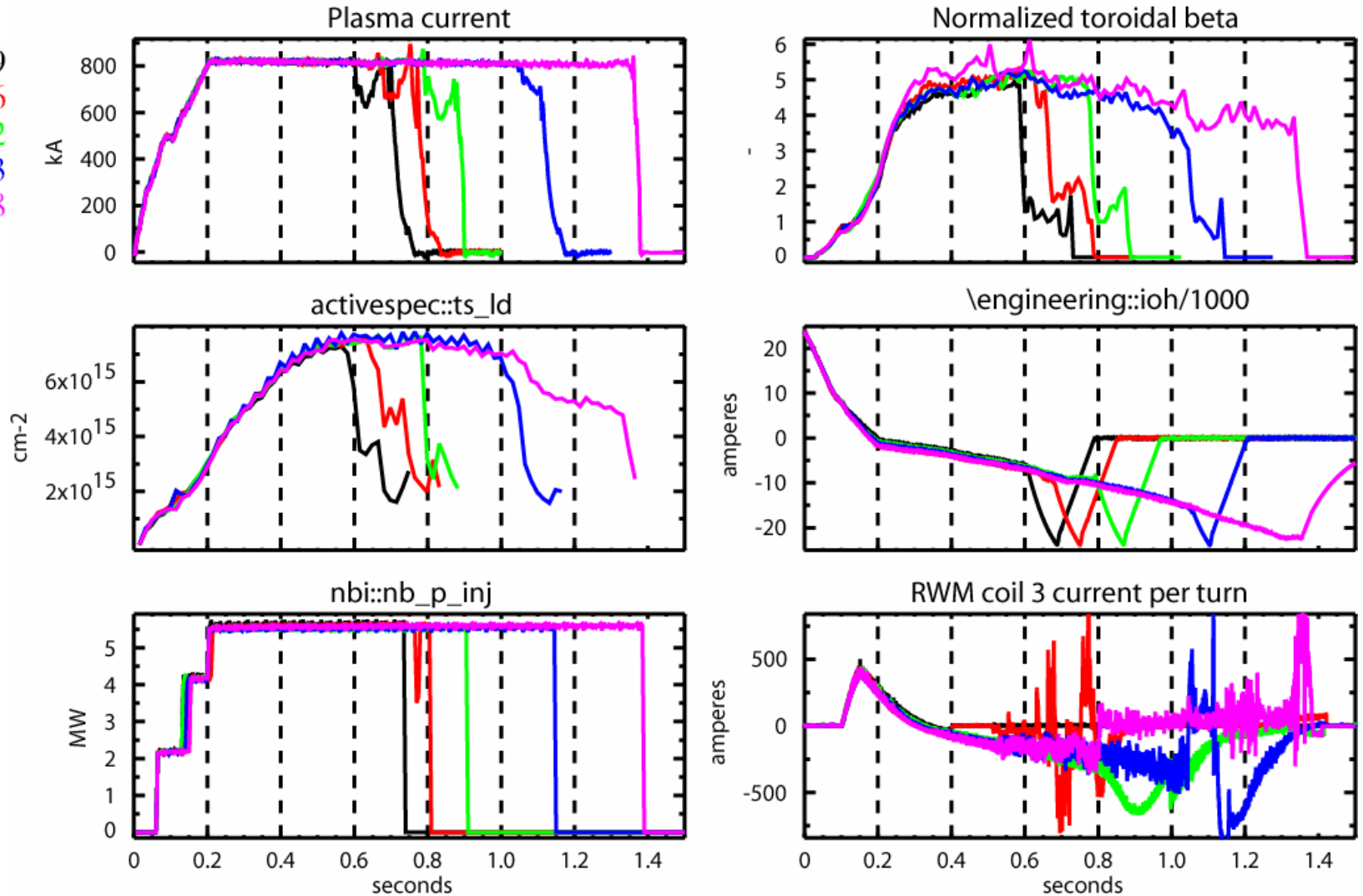


# XP614 - Comparison of error field correction techniques at high beta-N

120669  
 120666  
 120652  
 120663  
 120668



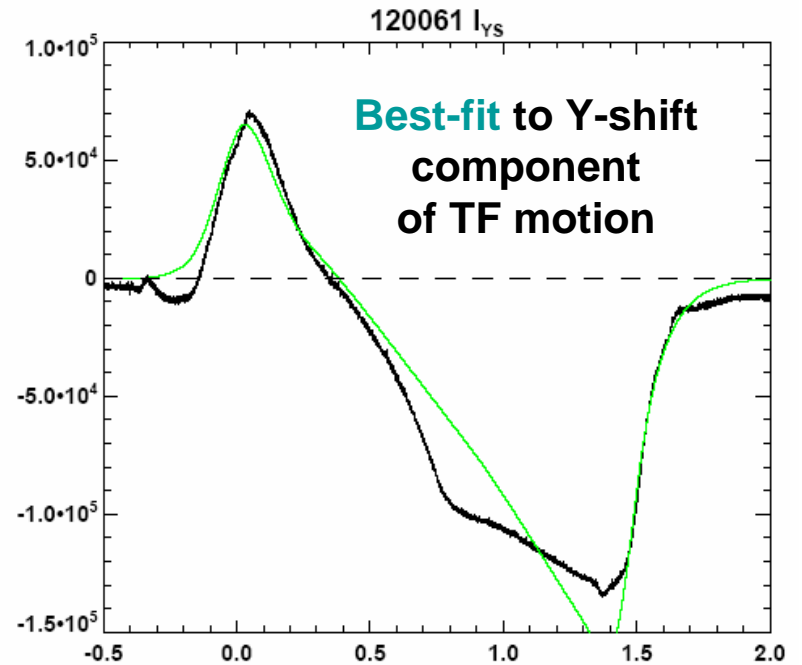
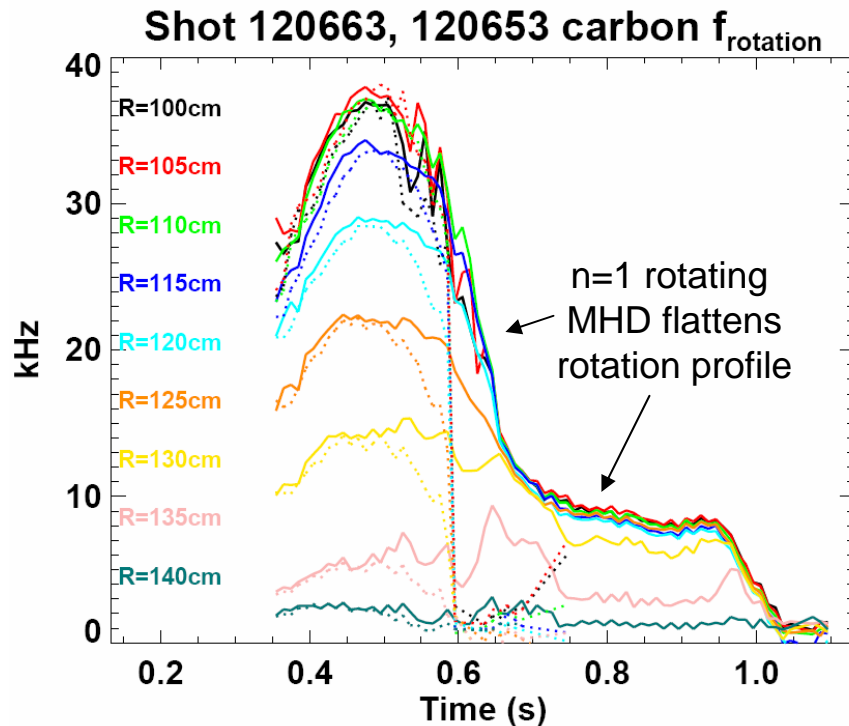
- OHxTF t=0.1-0.4s, no sensor-based feedback
- OHxTF t=0.1-0.4s, feedback on after t=0.5s
- OHxTF t=0.1-end of shot, no feedback

- OHxTF t=0.1-end, feedback on after t=0.5s
- OHxTF t=0.1-0.8s, feedback on after t=0.5s
- ➔ 120663 & 120668 imply late OHxTF is not optimized, and may be due to non-linearity of OHxTF field late in shot

# XP614 - Comparison of error field correction techniques at high beta-N

- Feedback phase & gain were optimized.
- Non-optimized feedback phase (120653) slows rotation and induces disruption shortly after feedback turns on at 500ms

- Measured OHxTF error field (black) has “break-in-slope” near 800ms which present PCS algorithm (green) cannot match - leading to poorer compensation late in shot?



- Algorithm was designed using “short pulse” waveforms which can be fit much better.

