Update on MCBXFBP1 performance for WP2

E. Todesco, J. C. Perez, F. Toral

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NESTED CORRECTOR

- In first two powering, magnet reached ultimate current in each direction
- But it was blocked at about 50% of the torque

Training of MCBXFBP1 (G. Willering, F. Toral, J. C. Perez, et al.)
NESTED CORRECTOR

- With the third assembly the issue has been understood
  - Improved shimming of the coil ends
  - Nominal current (plus 2%) in both planes reached simultaneously with limited training

Training of MCBXFBO1 (G. Willering, F. Toral, J. C. Perez, et al.)
We still have one issue

- When the torque sign is changed, some retraining is needed to go above 30% of the torque
- The present prototype can operate safely in this region …
We still have one issue

- When the torque sign is changed, some retraining is needed to go above 30% of the torque
- Or, after <10 quenches, in the region with the opposite torque
NESTED CORRECTOR

- We will have a second prototype to check reproducibility and verify if the situation can be improved
  - We wish to know if the present limitation is a showstopper for the operation