

# Nonlinear System Identification of Superconducting Magnets of RHIC at BNL

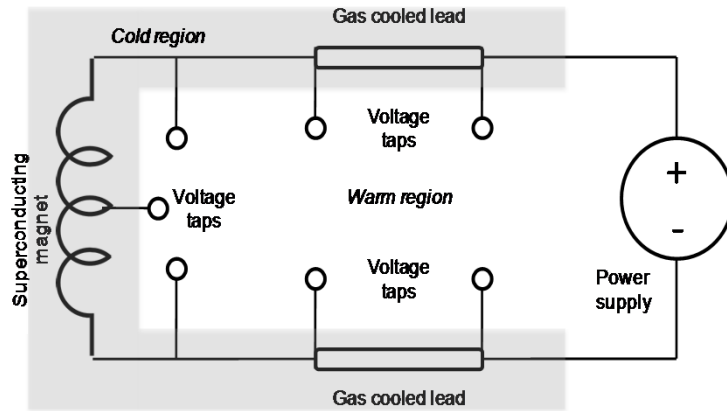
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MOM310 (Systems Engineering & Project Management)

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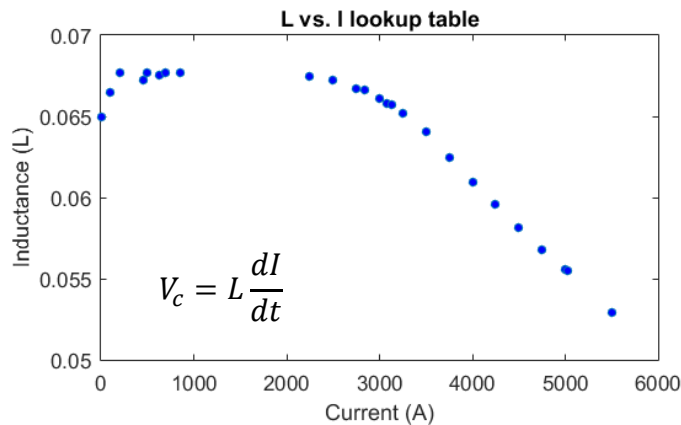
# Superconducting Magnet

1

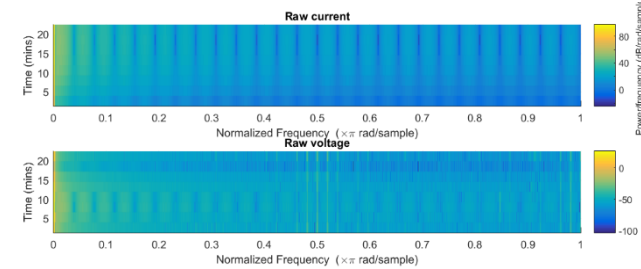


Voltage Tap Circuit

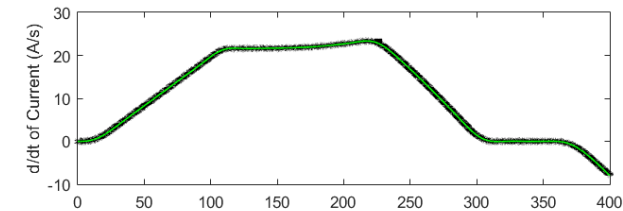
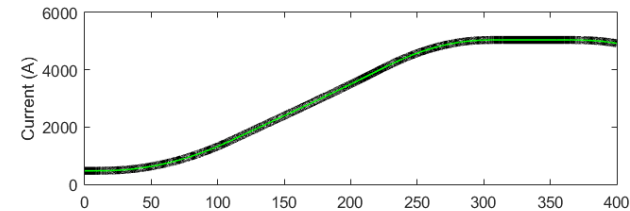
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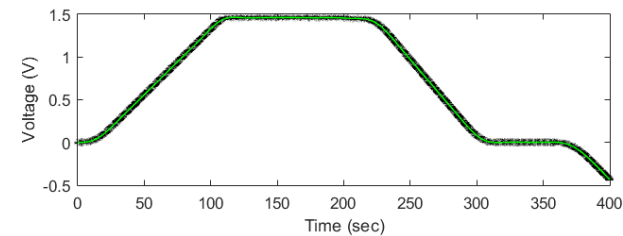
Manually Calibrated Inductance Table



3



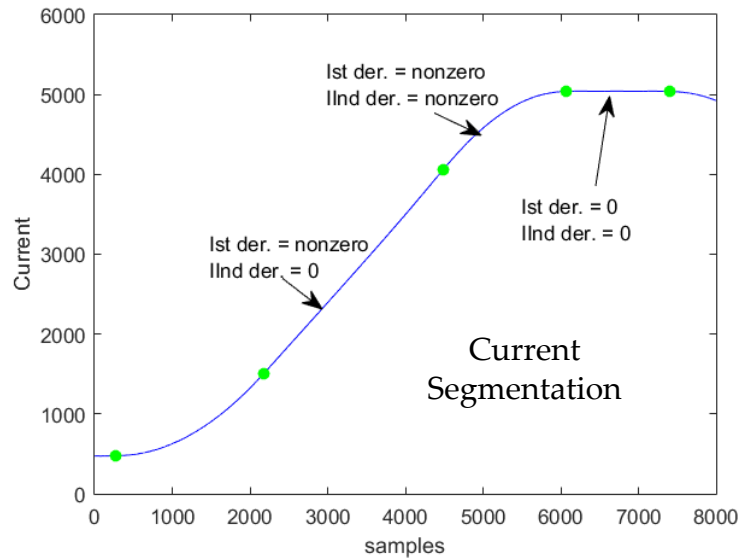
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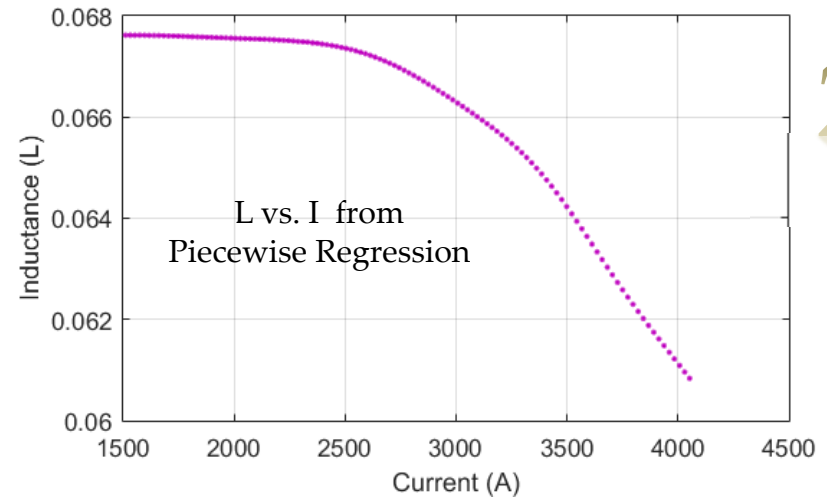
Spectrograms and Filtering of signals

# System Identification

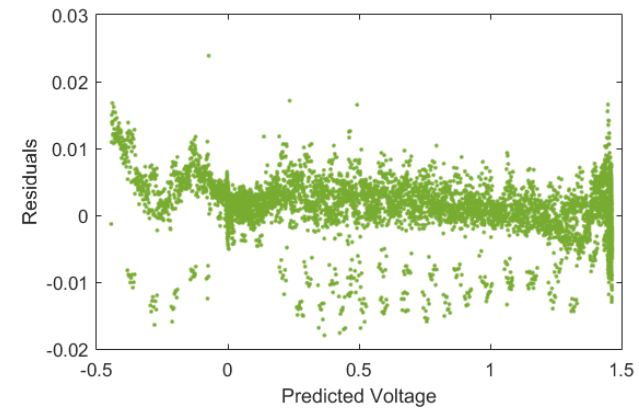
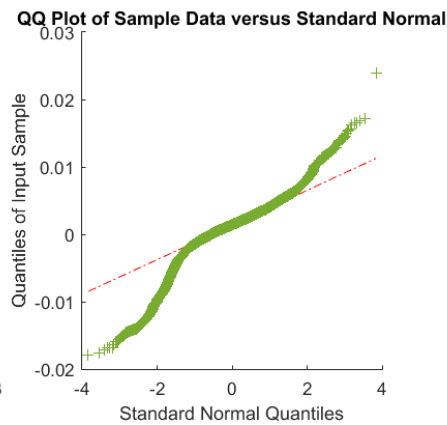
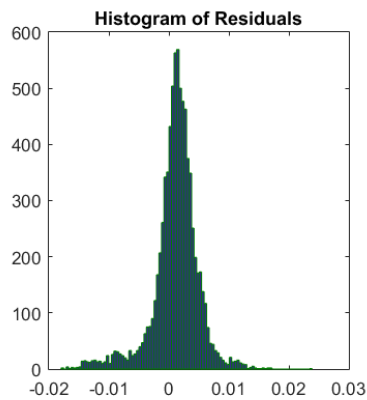
1



2



3



Residual Analysis

# Field Test

