## Nonlinear System Identification of Superconducting Magnets of RHIC at BNL

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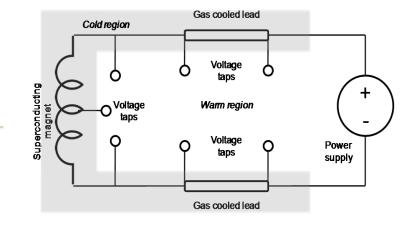
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PhD Student Stony Brook University, NY Brookhaven National Laboratory, NY

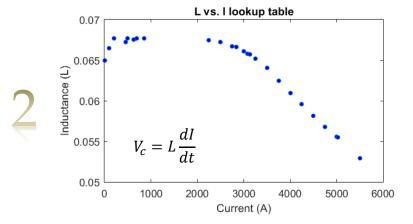




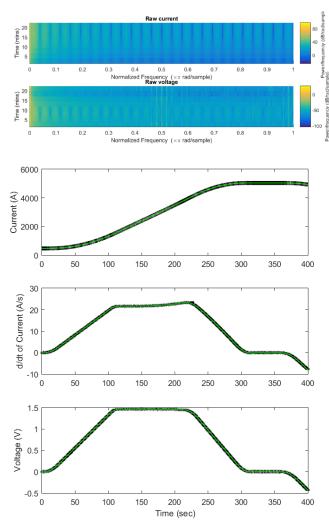
## Superconducting Magnet



Voltage Tap Circuit



Manually Calibrated Inductance Table



Spectrograms and Filtering of signals

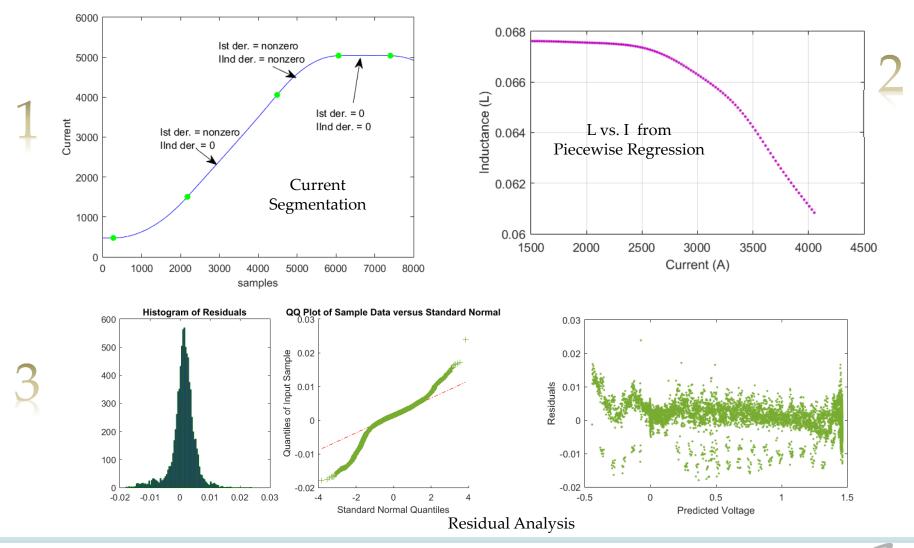


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## System Identification







## Field Test

