

Abstract Submitted  
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**Automated data acquisition of switching events of current-biased Josephson Junctions** PUBUDU GALWADUGE, ZECHARIAH THRAILKILL, JOSEPH LAMBERT, STEVEN CARABELLO, ROBERTO RAMOS, Drexel University — A data acquisition and visualization system was developed by combining LabView, C++ and batch scripts. The system automates the collection of large amounts of data at high sampling rates and was used to observe the resonant activation of current-biased Josephson junctions operating near the classical-quantum crossover. Above the characteristic crossover temperature, the junction behaves classically. Below the crossover temperature, it shows quantum features.

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