

# LMG Progress Report

Merrick Lavinsky

Florida Institute of Technology

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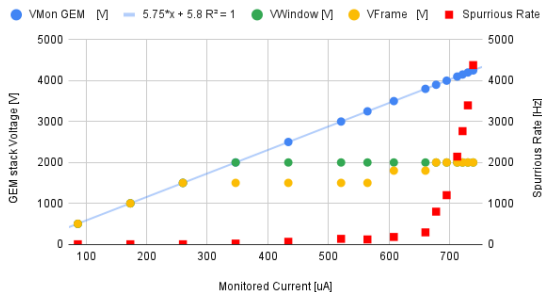


# LMG updates

- ▶ Completed GEM QC4 test in LMG
  - HV scan for IV curve to ensure Ohmic response
  - Spurious noise rate
- ▶ Spurious rate as function of Threshold on discriminator
  - Reduced the rate to 200 Hz at operating voltage from 4kHz
- ▶ Reperformed QC4 on LMG with new threshold

# Initial QC4 results

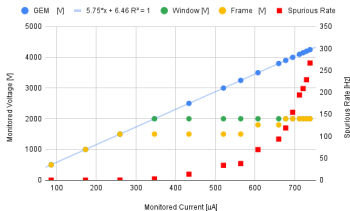
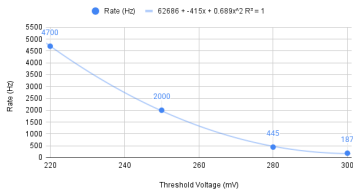
## IV curve and Spurious rate



Gas: CO<sub>2</sub> at 130 ml/min  
Disc Threshold: 220 mV

# Threshold study and final QC4 results

Spurious Rate (Hz) vs. Threshold (mV)



Gas: CO<sub>2</sub> at 130 ml/min  
new disc Threshold: 300 mV

## LMG plans

- ▶ Planned to complete QC5 on saturday
  - QC5 is measure signal rate and current from LMG from XRay gun to calculate gain
  - planned to do this on Tuesday, but the computer wasnt connecting to XRay gun nor CAEN unit, so im working on connection troubleshooting