

Science

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- magnetized beam
- Different laser sizes
  - Impact on beam emittance
- with simulation
- Install an RF-pulsed laser
- magnetization



## Summary & Plan

• Photogun operates reliably at 300 kV Cathode solenoid can trigger field emission but we have learned how to prevent this Have successfully magnetized electron beam and measured rotation angle of

 Continue to characterize magnetized beam - High beam current run, 5mA Cross check beam-based measurements

Use magnetic puck to increase beam