

G_E^n Target Update

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Outline

We will begin taking beam for G_E^n in 3 weeks.

1. This Week
2. Next Week
3. Week After
4. Start Taking Beam
5. The Future
6. Other Pieces of the Puzzle

This Week

The Plan for This Week: Begin NMR Tests in Hall A

What remains (as of Wednesday afternoon)

- Begin Q-curve tests (install target ladder)
- Make new RTDs
- Install cancellation coil
- Start sweeping magnetic field (get TOSP approval)
- Ready for cell

Next Week

The Plan for This Week: Polarization Tests with Lasers

What needs to happen before this week:

- Connect heaters and oven airflow
- Work platform is being built
- Combiner box is being built
- Need safety walkthrough (and approval on LSOP)

Next Week (cont.)

What needs to happen during this week

- Begin NMR and EPR tests
- Begin spin-ups
- Spindowns with BigBite on (and off)
- Beginnings of calibration

The Week After

The Plan for This Week: Calibration

- Establish Calibrations
- Establish Calibration Errors

Start Taking Beam

Since everything will be taken care of earlier, we will relax and sip cocktails that will have little umbrellas in them.



There might be some work left. This is the week to sew up loose ends. We will begin to take beam this week.

The Future

- G_E^n will run until May 12
- There are still shifts available (but they are going fast)
- We will most likely run with a higher in-beam polarization than ever before.

Other Pieces of the Puzzle

- Todd and Gordon will update you on our cell inventory
- We have a complete spare oven, ladder, heaters, and electronics.
- Full cell characterization is underway at JLab and UVA