Summary of observing runs requested for this project

<table>
<thead>
<tr>
<th>Run</th>
<th>Telescope</th>
<th>Instrument</th>
<th>No. Hours</th>
<th>Moon</th>
<th>Optimal months</th>
<th>Accept. months</th>
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<tbody>
<tr>
<td>1</td>
<td>APO 3.5-m</td>
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Scheduling constraints and non-usable dates (*up to four lines*).
**Scientific Justification** Explain the reason why your scientific problem is interesting and worth pursuing. Be sure to include the overall significance of your proposed project to astronomy. Cite references to other work that supports your statement. Limit text to one page with figures, captions and references on no more than two additional pages.
**Experimental Design**  
Describe your overall observational program. What types of data will you collect and why? How will these observations contribute toward the accomplishment of the goals outlined in the science justification? (limit text to one page, but append to your proposal submission an airmass chart for the proposed night of observing and finding charts for all targets)
**Use of Other Facilities** Describe how the proposed observations complement data from non-UVa facilities. For each of these other facilities, indicate the nature of the observations (yours or those of others), and describe the importance of the observations proposed here in the context of the entire program.

**Previous Use of U. Virginia Facilities** List previous experience with telescope time on facilities available through University of Virginia to the PI during the past 2 years, together with the current status of the data (e.g., “LMO 26-inch, Alta F9000 CCD, “Intro to CCDs: Measuring the Platescale of the 26-inch Telescope”, Lab 3 report submitted”).
Observing Run Details for Run 1: APO 3.5-m + ________

**Technical Description** Describe the observations to be made during this observing run. Justify the filters needed, the amount of time needed to expose, the instrument, and the desired lunar phase. List objects, their coordinates, and any known magnitude information (or surface brightness, if appropriate). As separate pages to the proposal, hand in a finding chart and airmass chart for the proposed night of observation. (Information on making the airmass and finding charts is given in the lab instructions.)

**Instrument Configuration**

- Filters:
- Grating/grism:
- Order:
- Cross disperser:
- Slit:
- Multislit:
- $\lambda_{\text{start}}$:
- $\lambda_{\text{end}}$:
- Fiber cable:
- Corrector:
- Collimator:
- Atmos. disp. corr.:

R.A. or R.A. range of principal targets (hours):
Dec. or Dec. range of principal targets (degrees):

**Special Instrument Requirements** Describe briefly any special or non-standard usage of instrumentation.