

OBSERVING REQUEST
University of Arizona Observatories

Year: 2017

Term: Jul–Dec

Proposal type: short-term

Constraining the Faint End of the Quasar Luminosity Function at High Redshift

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CoI(s): _____

Abstract of Scientific Justification

We will use Hectospec to identify a large sample of faint quasars $3 < z < 5$, and therefore constrain the faint-end of the quasar luminosity function in this redshift range.

Summary of observing runs requested for this project

Run	Telescope	Cage	Instrument	PI		AO	Nights	Moon	Scheduling		Sharing	
									Optimal	Acceptable	Poss.	Adv.
1	MMT		Hectospec				0.5	grey	Oct–Nov	Oct–Dec	yes	yes

Scheduling constraints and unusable dates (up to 4 lines): None.

no text past this line

A * appended to the proposal type indicates a continuation proposal; a * appended to the name of a proposer indicates the proposer is a (graduate) student; a proposer whose name is underlined is certified on the proposed telescope/instrument combination; if a * appears within the PI or AO box in the observations summary table, the instrument is a PI instrument and/or Adaptive Optics are requested – signatures are required on the next page.

Target list (attach list if longer than 26 objects)				
#	Object	RA	Dec	mag / color / type / redshift / comment / etc.
1	<i>(Identify at least 1 object)</i>			

Approval for Instrument Use from PI: _____
*(have instrument PI signature appear on, or attach PI e-mail to, **all** copies)*

Graduate students *(provide the following information if student is PI on the cover page or if this is a 2nd-year or Thesis program. Send confirmation email to TAC chair in place of signature.)*

Student's Name	Advisor's Name	Advisor's Signature	2nd-yr	Thesis

Scientific Justification

Experimental Design & Technical Description Describe your overall observational program. How will these observations contribute toward the accomplishment of the goals outlined in the science justification? If you've requested long-term status, justify why this is necessary for successful completion of the science. *(up to one page)*

Summary of Time Requested and Awarded The TAC needs to understand the scope of this project — (1) tell us how many UAO nights you've already had for this project, how many you request this time, and (a good guess of) how many you need to complete the project; (2) if a substantial amount of observing for this project comes from non-UAO telescopes, tell us about that observing, and how the UAO part fits in; (3) if you are collaborating with people who have telescopes, especially if you are part of a large collaboration, tell us who is leading the project, and how UAO time and your participation fit in. (*up to one page*)

Previous Use of Steward Facilities

List **all** allocations of telescope time for the present project and allocations for other projects on facilities available through UAO during the past 2 years, together with the current status of the data (cite publications where appropriate). Mark those allocations related to the present proposal (i.e, precede text with `\related` command). (**up to one page**)

Other Information

Provide any additional program-related information including, for example, relation of current program to externally funded research, to the development of expanded capabilities for UA telescopes, or to individual timescales (e.g. PI is finishing postdoc appointment and this request would complete program). (**up to one page**)