

Lulin Observatory  
Institute of Astronomy  
National Central University

Semester: 2025C

Proposal ID:

Received Date:     /     /

## Application for LOT Time – Research

1. Title of Observing Program

## 2. Principal Investigator

Name: \_\_\_\_\_

Institute:

Address:

E-mail:

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

### 3. Co-Investigators

Name	Institute	Name	Institute
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#### 4. Scientific Category

<input type="checkbox"/> Solar System	<input type="checkbox"/> Exoplanets	<input type="checkbox"/> Stars (incl. variables)	<input type="checkbox"/> Star Formation
<input type="checkbox"/> Interstellar Medium	<input type="checkbox"/> Compact Objects, SNe	<input type="checkbox"/> Milky Way Galaxy	<input type="checkbox"/> Nearby Galaxies
<input type="checkbox"/> AGN, QSO	<input type="checkbox"/> Cluster of Galaxies	<input type="checkbox"/> Large Scale Structure	<input type="checkbox"/> Gravitational Lenses
<input type="checkbox"/> Distant Galaxies	<input type="checkbox"/> Cosmology	<input type="checkbox"/> Instrument Testing	<input type="checkbox"/> Others

## 5. Abstract

## 6. Link to Thesis Work

☐ This program is linked to a PhD thesis  
 Name of the student: \_\_\_\_\_  
 Name of the advisor: \_\_\_\_\_  
 Planned date of the defense: \_\_\_\_\_

☐ This program is linked to a Master thesis  
 Affiliation of the student: \_\_\_\_\_  
 Affiliation of the advisor: \_\_\_\_\_

## 7. Number of Requested Semester(s)

- ☐ This is a single-semester program.
 ☐ First time application.
 ☐ Continuation.
- ☐ This is a multi-semester program.
 This is the \_\_\_\_\_ out of (total of) \_\_\_\_\_ semesters program.

## 8. Observation Execution Methods

- ☐ Classical/Visitor
 ☐ Queue Service and/or Monitor
 ☐ Target-of-Opportunity

Classical/Visitor: Either PI or designated observer(s) need to be present at the Lulin Observatory.

Queue Service and/or Monitor: Observations required  $\sim 0.1$  hr to  $\sim 8$  hr per night; carried out by LOT staff.

Target-of-Opportunity: Maximum of  $\sim 2$  hr ToO interruption per night; required permission from respected PI.

## 9. Requested Instrument(s)

- ☐ Lulin CCD Imager
 ☐ LISA Spectrograph
 ☐ UVEX Spectrograph
 ☐ TRIPOL2
- ☐ Lulin-ASIAA Telescope for Transients and Education (LATTE)
 ☐ Other instrument: \_\_\_\_\_

## 10. Required Filters for Imaging Observations

- ☐ Bessel U-band
 ☐ Bessel B-band
 ☐ Bessel V-band
 ☐ Bessel R-band
 ☐ Bessel I-band
- ☐ SDSS g'-band
 ☐ SDSS r'-band
 ☐ SDSS i'-band
 ☐ SDSS z'-band
 ☐ Custom VR
- ☐ H $\alpha$ 
☐ H $\beta$ 
☐ [OIII]
☐ [SII]
☐ Na
- ☐ CN
☐ C<sub>2</sub>
☐ C<sub>3</sub>
☐ CO<sup>+</sup>
☐ Blue Continuum
- ☐ H<sub>2</sub>O<sup>+</sup>
☐ NH<sub>2</sub>
☐ Red Continuum
☐ Other Filter(s): \_\_\_\_\_

## 12. Monitoring Requirement (only for monitoring program)

Monitoring with \_\_\_\_\_ hr per night for \_\_\_\_\_ nights, with cadence of \_\_\_\_\_

(Hours per night can range from  $\sim 0.1$  hr to  $\sim 8$  hr)

## 13. Willing To Share Night(s)?

☒ Yes

☐ No

## 14. Observing Time Request and Description of Observing Runs

Instrument (LCI/LCS/TRIPOL2)	Obs. Mode (filters, grating)	Num. Night (8 hrs=1 night)	Moon Phase	Preferred Date	Acceptable Date

Total requested number of nights: \_\_\_\_\_ nights      Minimum acceptable number of nights: \_\_\_\_\_ nights

## 15. (Optional) Additional Instrumental and/or Scheduling Requirement

### 16. Target List

Object Name	RA	Dec	Equinox	Mag	Remarks
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### 17. Technical Description and Feasibility Study

### 18. Status of Previous Observing Runs

Semester	PI Name	Observation Status	Data Analysis Status	Publication Status

### 19. Publication List (with LOT data; papers related to this program) OR Progress Summary

20. Scientific Justification (maximum 1 page of text; continuation or multi-semester programs include current status; Figures and/or Tables can be put into one extra page with editors such as MS WORDS, Libre Office and etc).