

W.M. Keck Observatory

Observing Proposal Coversheet for Semester2007A

Back to Form Use the "Back to Form" button on this page instead of the Browser "Back" feature when using Microsoft Explorer to avoid a known bug.

Warning: You have not yet submitted your form!

To submit your form, click the **Submit** button.

Submitting the form will:

- generate Keck Proposal Numbers for the requested instruments.
 - enter the proposal into the Keck Proposal Database to help facilitate scheduling.
 - format the cover sheet information so that it may be printed and included with your proposal.
-
-
-

Allocating Institution: UC

No. of nights Requested: 4

No. of nights estimated to complete the program
in addition to those requested here:

[Keck Proposal Numbers](#)

Is this the first application for this program? N

For UC proposals only

PI Position: Faculty

INVESTIGATOR INFORMATION

Principal Investigator: Professor Saul Perlmutter

E-mail: saul@lbl.gov

Office Phone: 510-486-5203

Home Phone (optional):

FAX number: (510) 486-6738

Address: Lawrence Berkeley National Laboratory MS 50R5032 One Cyclotron Rd. Berkeley, CA 94720

OBSERVING TEAM AND LOCATION

Co-Investigator(s): Prof. Gerson Goldhaber, Prof. Mark Strovink, Dr. Greg Aldering, Dr. Rahman Amanullah, Mr. Kyle Barbary, Dr. Kyle Dawson, Mr. Josh Meyers, Mr. David Rubin, Dr. David Schlegel, Dr. Anthony Spadafora, Dr. Mark Sullivan, Dr. Nao Suzuki

E-mail(s): g_goldhaber@lbl.gov, MWStrovink@lbl.gov, GAldering@lbl.gov, rahman@physto.se, kbarbary@berkeley.edu, KDawson@lbl.gov, jmeyers314@berkeley.edu, rubind@berkeley.edu, DJSchlegel@lbl.gov, ALSpadafora@lbl.gov, sullivan@astro.utoronto.ca, NSuzuki@lbl.gov

Observer(s) projected to acquire the data: Prof. Saul Perlmutter, Dr. Rahman Amanullah, Mr. Kyle

Barbary, Dr. Kyle Dawson, Mr. Josh Meyers, Mr. David Rubin, Dr. David Schlegel, Dr. Mark Sullivan, Dr. Nao Suzuki

E-mail(s): saul@lbl.gov, rahman@physto.se, kbarbary@berkeley.edu, KDawson@lbl.gov, jmeyers314@berkeley.edu, rubind@berkeley.edu, DJSchlegel@lbl.gov, sullivan@astro.utoronto.ca, NSuzuki@lbl.gov

Observer location: Waimea-HQ

Location Justification: We will have observers at Waimea-HQ for all runs, but will also request remote observing from UCB(LBNL) in eavesdropping mode. Remote observers will participate in the observing and run analysis pipelines.

PROGRAM

Title: Cosmology with SNe Ia: the Second Generation

Summary of program (less than 100 words, for general distribution):

The current Type Ia supernova Hubble diagram and CMB observations argue for a flat universe with some form of dark energy. We propose to continue Keck spectroscopy to obtain the redshifts and types for a large sample of intermediate redshift SNe found by the Supernova Legacy Survey. Results from the survey first year, combined with third-year WMAP, provide the tightest published constraints on (constant) w . The full 5-year data set, when combined with well-measured nearby SNe, will provide the major improvement in the determination of dark energy parameters achievable in the coming years, achieving a $\sim 5\%$ measurement of w .

OBSERVING TIME PREFERENCE AND INSTRUMENT SELECTION

	Moon	B	G-DE	D	G-DL	B	G-DE	D	G-DL	B
	DATES	1-6 Feb	7-11 Feb	12-20 Feb	21-24 Feb	25 Feb - 8 Mar	9-12 Mar	13-21 Mar	22-25 Mar	26 Mar - 6 Apr
Instrument	LST @midnight	08:37	08:59	09:26	09:52	10:23	10:55	11:20	11:46	12:18
	Nights									
LRIS-ADC	4	-	-	-	-	-	-	-	-	-
	Moon	G-DE	D	G-DL	B	G-DE	D	G-DL	B	G-DE
	DATES	7-10 Apr	11-19 Apr	20-23 Apr	24 Apr - 5 May	6-10 May	11-18 May	19-24 May	25 May - 4 Jun	5-9 Jun
Instrument	LST @midnight	12:49	13:15	13:40	14:12	14:45	15:11	15:39	16:12	16:44
	Nights									
LRIS-ADC	4	-	-	-	-	-	-	-	-	-
	Moon	D	G-DL	B	G-DE	D	G-DL	B		

	DATES	10-17 Jun	18-24 Jun	25 Jun - 4 Jul	5-9 Jul	10-18 Jul	19-24 Jul	25-31 Jul
Instrument	LST @midnight	17:09	17:39	18:12	18:42	19:10	19:39	20:05
	Nights							
LRIS-ADC	4	-	-	-	-	-	-	-

Target Information

RA range: 10h00m-14h18m with emphasis on the 14h18m 52d field
 Dec range: +2d - +52d

Additional Information on Observing Time Preferences and Instrument Needs

Specific Dates required: None

Dates to avoid: None

Details of Special Requests: This program is synchronized with the CFHT-SNLS. We request dark time in 4 consecutive months (Feb-May). Please contact us prior to scheduling.

Instrument Specific Requests:

Slitmask Requests:

Please address all warnings displayed on this page before Submitting the form.

Submit Form

Submitting the form will:

- generate Keck Proposal Numbers for the requested instruments.
- enter the proposal into the Keck Proposal Database to help facilitate scheduling.
- format the cover sheet information so that it may be printed and included with your proposal.

Note: Keck Proposal Numbers are not assigned until you submit the form. Please use the proposal number listed in the text on the "submitted" version of the form..