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: 3
No. of nights estimated to complete the program in addition to those requested here: 0
Is this the first application for this program? N

Keck Proposal Numbers

For UC proposals only
PI Position: Research

INVESTIGATOR INFORMATION

Principal Investigator: Dr. David J Schlegel
E-mail: DJSchlegel@lbl.gov
Office Phone: 510-495-2595
Home Phone (optional):
FAX number: 510-486-6738
Address: Lawrence Berkeley Lab Mailstop 50R5032 1 Cyclotron Rd Berkeley, CA 94720

OBSERVING TEAM AND LOCATION

Co-Investigator(s): Prof. Saul Perlmutter, Kyle Barbary, Kyle Dawson, Vitaliy Fadeyev, Prof. Gerson Goldhaber, Marek Kowalski, Natalia Kuznetsova, Chris Lidman, Josh Meyers, David Rubin, Tony Spadafora, Nao Suzuki,
E-mail(s): saul@lbl.gov, kbarbary@berkeley.edu, kdawson@lbl.gov, VAFadeyev@lbl.gov, G_Goldhaber@lbl.gov, MPKowalski@lbl.gov, NVKuznetsova@lbl.gov, clidman@eso.org,

jmeyers314@berkeley.edu, rubind@berkeley.edu, ALSpadafora@lbl.gov, NSuzuki@lbl.gov,
Observer(s) projected to acquire the data: Kyle Dawson, Josh Meyers
E-mail(s): kdawson@lbl.gov, jmeyers314@berkeley.edu
Observer location: Waimea-HQ
Location Justification: We will most likely have several people in Berkeley observing remotely for training purposes.

PROGRAM

Title: Decelerating and Dustfree: Type Ia SNe in High Redshift Galaxy Clusters

Summary of program (less than 100 words, for general distribution):
We are finishing a 219 orbit HST program to study low-extinction Type Ia SNe in the decelerating regime of universal expansion and address the dominant systematic uncertainties, those due to dust extinction. By observing massive galaxy clusters at z>0.9, we target high redshift SNe hosted by elliptical galaxies. These galaxies are expected to be free of dust and provide a well-understood host galaxy environment. The data will make a significant improvement on cosmological constraints derived from SNe, and much larger improvement on systematic uncertainty. Spectroscopic observations using DEIMOS are essential in order to obtain redshifts of host galaxies of high redshift SNe discovered in the program.

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 / Nights**	**08:37**	**08:59**	**09:26**	**09:52**	**10:23**	**10:55**	**11:20**	**11:46**	**12:18**
DEIMOS	3	-	-	-	-	-	-	-	-	-
	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 / Nights**	**12:49**	**13:15**	**13:40**	**14:12**	**14:45**	**15:11**	**15:39**	**16:12**	**16:44**
DEIMOS	3	A	P	A	-	-	-	-	-	-
	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** / **Nights**	**17:09**	**17:39**	**18:12**	**18:42**	**19:10**	**19:39**	**20:05**
DEIMOS	3	-	-	-	-	-	-	-

Target Information

RA range: 12:30:00 - 15:11:00
Dec range: 09:00:00 - 63:00:00

Additional Information on Observing Time Preferences and Instrument Needs

Specific Dates required:
Dates to avoid:
Details of Special Requests:
Instrument Specific Requests:
Slitmask Requests:

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

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