W. M. KECK OBSERVATORY
Observing Proposal Coversheet for Semester 2002B

Allocating Institution: **UC**
No. of nights requested: **5**
No. of nights estimated to complete program in addition to those requested here: **None**
Is this the first application for this program? **No**

Institutional use: Proposal # _______
ESI
ESI

INVESTIGATOR INFORMATION

Principal Investigator:

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OBSERVING TEAM AND LOCATION

Observers projected to be present in Hawaii: **Greg Aldering, Isobel Hook, Saul Perlmutter, Lifan Wang,**
Observer location: **Remote (HQ)**

PROGRAM

Title: **Cosmology from a Campaign Focused on Highest Redshift SNe Ia**

Summary of Program (less than 100 words, for general distribution):
The "dark energy" accelerating the universe's expansion is a key problem raised by the current Type Ia supernova Hubble diagram (and CMB observations). This proposal would take advantage of an unusual opportunity to extend and fill in this Hubble diagram at the higest confirmable redshifts (z ~1.2): this fall, the Subaru Observatory is conducting an ``Observatory Big Project'' that will use the wide-field Suprime-Cam to observe four fields to great depths with observations spread over 13 nights. Subaru instrument-team members have joined with the Supernova Cosmology Project to study the resulting high-redshift SNe to make cosmological measurements and systematics checks. Keck spectroscopy will be crucial, since the supernovae to be studied would all be at z > 1.

Observing Time Preference & Instrument Selection

Instrument	No. nights
ESI	3
ESI	2

Moon	G-DE	D	G-DL	B	G-DE	D
From Date	1 Aug	4 Aug	13 Aug	17 Aug	29 Aug	2 Sep
To Date	3 Aug	12 Aug	16 Aug	28 Aug	1 Sep	10 Sep
~ LST @midnite	20:25	20:50	21:15	21:45	22:20	22:45
Request 1						
Request 2						
Request 3						
Request 4						

Moon	G-DL	B	G-DE	D	G-DL	B	G-DE	D	G-DL	B
From Date	11 Sep	15 Sep	28 Sep	2 Oct	10 Oct	15 Oct	27 Oct	31 Oct	9 Nov	13 Nov
To Date	14 Sep	27 Sep	1 Oct	9 Oct	14 Oct	26 Oct	30 Oct	8 Nov	12 Nov	24 Nov
~ LST @midnite	23:10	23:45	00:15	00:40	01:05	01:40	02:10	02:35	03:00	03:35
Request 1				P						
Request 2								P		
Request 3										
Request 4										

Moon	G-DE	D	G-DL	B	G-DE	D	G-DL	B	G-DE	D
From Date	25 Nov	29 Nov	8 Dec	13 Dec	24 Dec	28 Dec	7 Jan	12 Jan	22 Jan	27 Jan
To Date	28 Nov	7 Dec	12 Dec	23 Dec	27 Dec	6 Jan	11 Jan	21 Jan	26 Jan	31 Jan
~ LST @midnite	04:05	04:30	05:00	05:30	06:00	06:25	06:55	07:25	07:55	08:122
Request 1										
Request 2										
Request 3										
Request 4										

Additional information on Observing Time Preferences and Instrument Needs

Specific dates needed: **PLEASE CONTACT US BEFORE SCHEDULING: We are coordinating with the Subaru Big Project but their dates are not scheduled.**
Dates to avoid: **None**
Details or special requests: **PLEASE CONTACT US BEFORE SCHEDULING: We are coordinating with the Subaru Big Project but their dates are not scheduled.**
RA range of objects: **2-3**

Special instrument needs: **We will be requesting automatic saves of the acquisition camera images to allow us to do closed-loop offsets based on deep images which include the SN. Also, we will use the red guider filter so that slit losses due to atmospheric dispersion can be minimized.**

Return to your input form 1. ">

WMKO Coversheet Processor v1.7 04-Feb-2002
Please direct comments on this form to *bschaefer@keck.hawaii.edu*