

CFA OBSERVING TIME REQUEST

Program No.: _____

P. I.: Kirshner, R. P. Semester: 2007 July-December

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Col.: Blondin, S., Challis, P., Hicken, M., Wood-Vasey, M., Modjaz, M.

Program Title: ESSENCE: Spectroscopy of High-Redshift Type Ia Supernovae

Telescope: Magellan 6.5m

Instrument: LDSS3 Spectrograph

Other (multislit, ap plates, etc): _____

(Remember: it is YOUR responsibility to make sure the instrument setup is correct for your project)

Nights Requested: D 4.5 ■ G 0 B 0

Queued Observing: Yes ___ No X Home Phone _____

Term: long/initial ___ long/cont X short ___ engineering ___ Additional nights _____

Student Project: research exam ___ thesis ___ other ___

Optimum Dates: 3 half-nights in each Oct 4-11, Nov 8-13, Dec 8-13

Acceptable Dates: 3 half-nights in each Oct, Nov, and Dec

Dates You Cannot Use: none

Targets: Number _____ Magnitude Range 20-23

Targets: RA Range 23:00 - 02:30 Dec Range -15 --> + 05

Abstract Include a short summary of your project. The summary should outline the main goals of the project and should not exceed 100 words.

We propose to continue our long-term project of spectroscopic follow-up of high-redshift Type Ia supernovae as they are discovered by our ESSENCE (Equation of State SupErNova Cosmology Experiment) team with the CTIO 4m telescope. This is the last year of the ESSENCE project. Spectroscopy of the high-redshift SNe is used to determine redshifts, to ensure that the sample consists of normal (i.e., SNe whose luminosity can be determined) Type Ia SNe, to reveal possible effects of evolution, and to control systematic errors.