

March 19, 2006 LGS Facility IPT Meeting Minutes

A. Bouchez 3/19/07

Caltech: Angione, Bouchez, Cromer, Petrie
Palomar: Doyle, Tripathi
Chicago: Kibblewhite

1. Laser Automation

Much work done on laser automation by Chris, Steve, and Renu last week. See 3/16 email by Chris for details. Gain settings for laser diode readings only approximate at present. Dither lock SNR significantly improved by improving fiber coupling.

For the upcoming observing run, we will have live power display of all photodiodes in the data room (will calibrate at start of run).

Agreed to modify a PC in Coude (probably the "blue PC") to display and save video from the diagnostics bench near and far-field cameras. AB will discuss required work with Dan Zieber. Will transition data display and recording from Anna's PC to a Palomar computer between the April observing runs.

2. Laser status and plans

2.1. Laser status

RT aligned both IR lasers (including diode alignment), got 589nm light on Fri.

1.32: 12.5 W, 17ms turn-on time.

1.06: 12-13 W, 18ms turn-on time

589nm: 2-3W with no mode lock. ~5W with mode lock.

1.06 laser is fluctuating, perhaps due to KTP crystal.

LBO has arrived, but will postpone installation.

LIO3 will arrive any time.

Ed: Should expect 1.06 to give ~20W. Could be fold mirror alignment.

2.2. Laser work this week

1. Test new KTP crystal in 1.06 laser.
2. Address circuit problems in Coude lab (with Steve Einer).

2.3. Order of laser work while Ed is at Palomar

1. Measure beam sizes, decide if size needs to be adjusted.
2. Replace output coupler on 1.06 laser (has been received.)
3. Measure micropulse width. Adjusted by changing etalons.
4. Replace LBO crystals if time is available.

3. Planning for April 2-6 observing run

3.1. Personnel schedule

	Mon. 4/2 Eng.	Tue. 4/3 Eng.	Wed. 4/4 Science	Thu. 4/5 Science	Fri. 4/6 Science
Angione	X		X	X	X
Bouchez	X	X	X	X	X
Cromer	X	X	X	X	X
Dekany			?	?	?
Guiwitz	X	X	?	?	?
Kibblewhite	X				
Moore	?	?			
Petrie	X				
Roberts	X	X	X	X	X
Tripathi	X	X	X	X	X
Trinh	?	?			
Troy	?	?	?	?	?

3.2. Spotters

Spotters are currently scheduled to be at Palomar 19:15 - 05:40. Requested that MD change this to 19:13-05:40.

4. Other items

HP asked about whether Palomar or COO are to make a cover for the LLT. Agreed that this should be done by Palomar, and started after the PF diagnostics enclosure is complete (AM working on this.)

Meeting adjourned 9:30.