

July 2, 2007 Laser IPT Meeting Minutes

A. Bouchez

Caltech: Bouchez, Roberts, Pickles
Palomar: Tripathi
Chicago: Kibblewhite

1. Laser status and plans

- 1.32 μm laser diodes still not correctly aligned. Laser produced 10-11 W at end of Ed's last visit, but RT has not been able to get back to this after optimizing of diode laser focus. Now trying to revert to old focus position (spacer out). Current power with 40cm cylindrical cavity lens and 1 diode spacer:
 - 6.5-7.5 W @ 250 Hz.
 - 9 W @ 300 Hz.
 - lower at higher pulse frequencies.
- EK could come to Palomar July 12-20. AB to make monastery reservations.
- RT only on 1.5 days this week. To do:
 - Order replacement flow switches.
 - Check on status of spare water filters. Order if necessary.
- RT on 3 days next week before EK arrives. To do:
 - Optimize 1.32 μm laser diode alignment.
- RT & EK work July 13-19:
 - Optimize 1.32 μm laser
 - Align SFG (replace LBO crystals if necessary).
 - Optimize output optics.
 - If time, measure spectral bandwidth of laser.

2. Other subsystems

- Conflict over use of Diagnostic PC until 1.32 μm diodes are aligned. Switch-over at 4pm suggested. AB to communicate to MM.
- SG and JA trip to Palomar to work on temp. control software was very successful. RT says thanks!

Meeting adjourned at 9:40 am.