

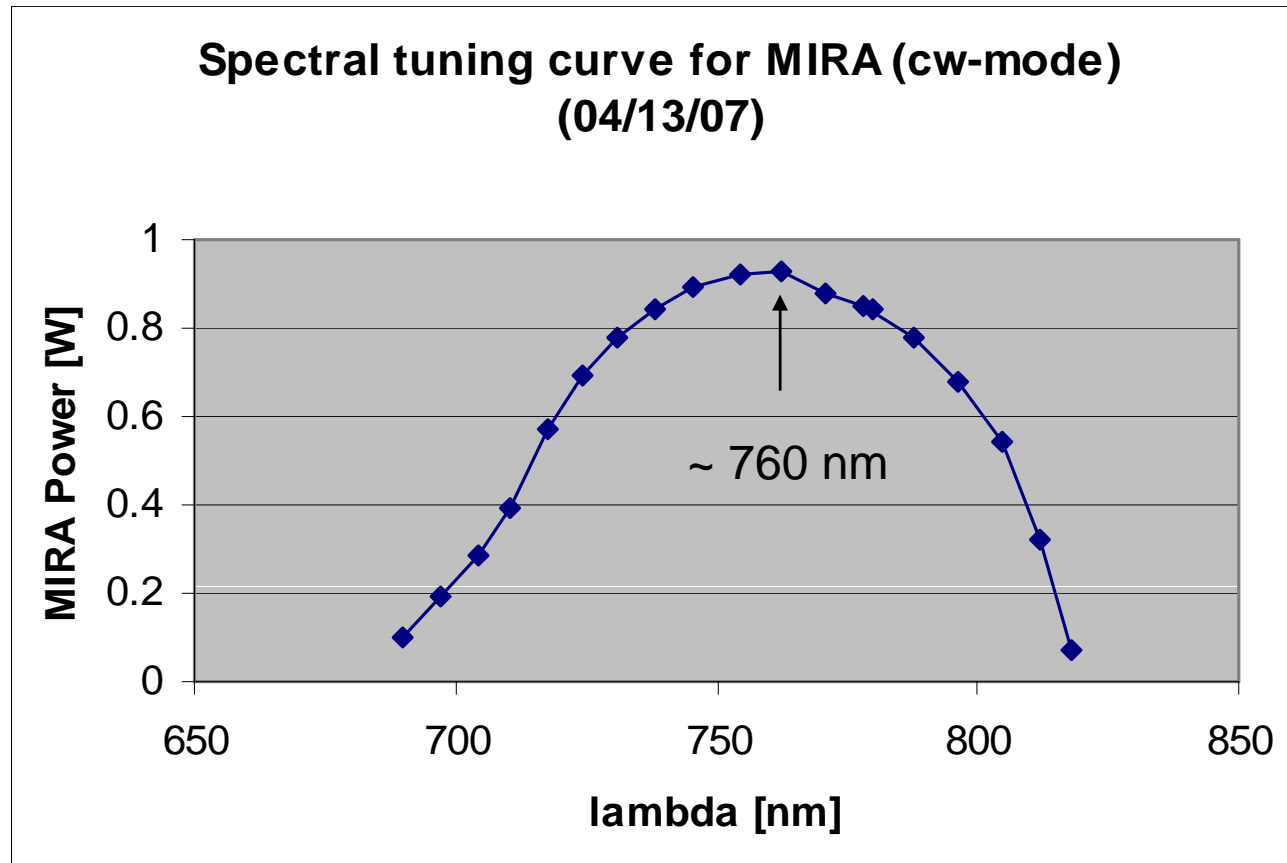
ILC laser project update

A. Brachmann

MIRA Power

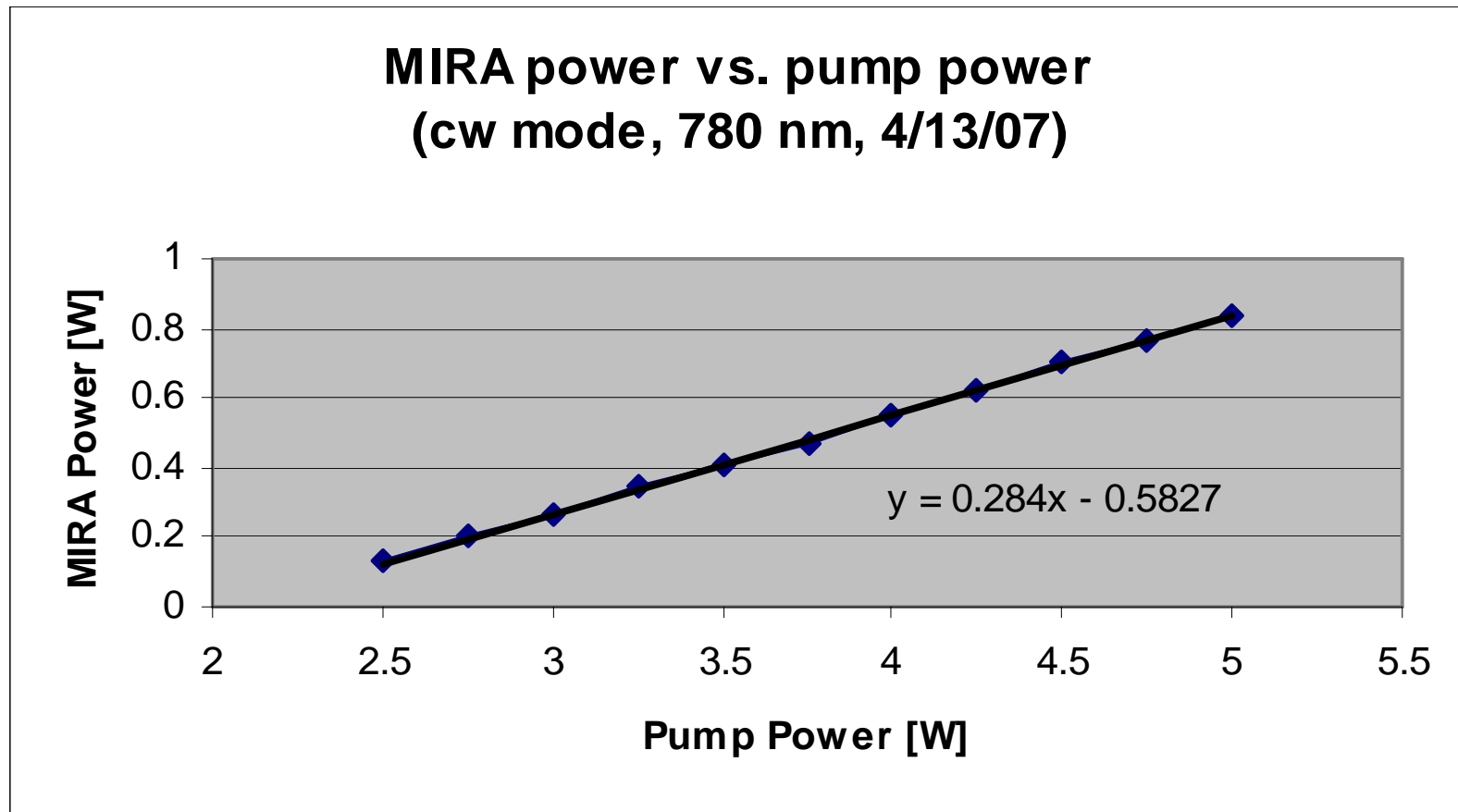
Mode of operation	Power
cw alignment cavity	0.93 W
Main cavity	0.8 W
Mode-locked operation	0.45 W (76 MHz, 5.9 nJ)

MIRA wavelength tuning curve

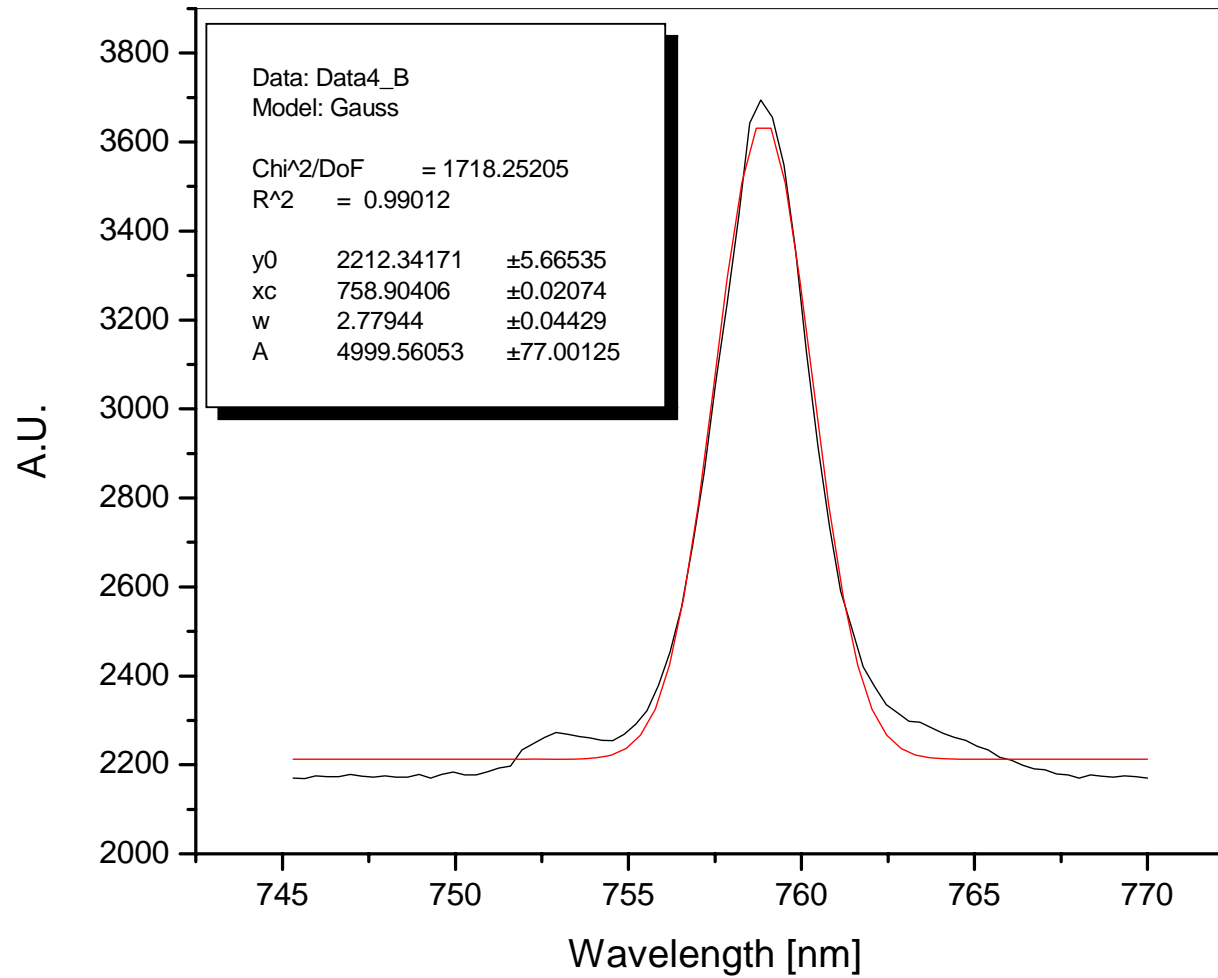


To get peak at 780 nm we need new cavity optics

MIRA efficiency



MIRA ML spectrum



Near term plans

- Extend cavity to reduce repetition rate
- Measure pulse width (Auto-correlator)
- Pulse stretching
- 3 MHz train generation using fast Pockel's cell