

Lasers status following Liyuan visit

Prepulse- jump: 3 groups of ECAL runs have been done.

LASER1:

- Adjust only coupling of the main fibre: power on the Matakq back to normal, ~300-400ADC.

LASER3:

- New crystal. Replace logic unit. All OK.

LASER2:

1) Laser power distribution:

Main transformer output changed from 230V to 207V : after that still not able to switch on laser, always an electrical arc on main power supply → replacing the logic unit help.

2 power supply which seems in cause and 1 repaired by Quantronix was not damaged !!

Returned 2 logic units for reparation.

→No idea what was wrong and what is the damage originally (voltage, B field, or just unlucky to have 2 logic unit failed at the same time..)

2) TiS laser:

- Our conclusion is that the home made LBO crystal is damaged.

-After Liyuan visit TiS laser need tuning all the time (after switch on laser) to recover blue light
THUS no spare laser when I'm not here. And when blue light is back after tuning, don't know how long it can stay.

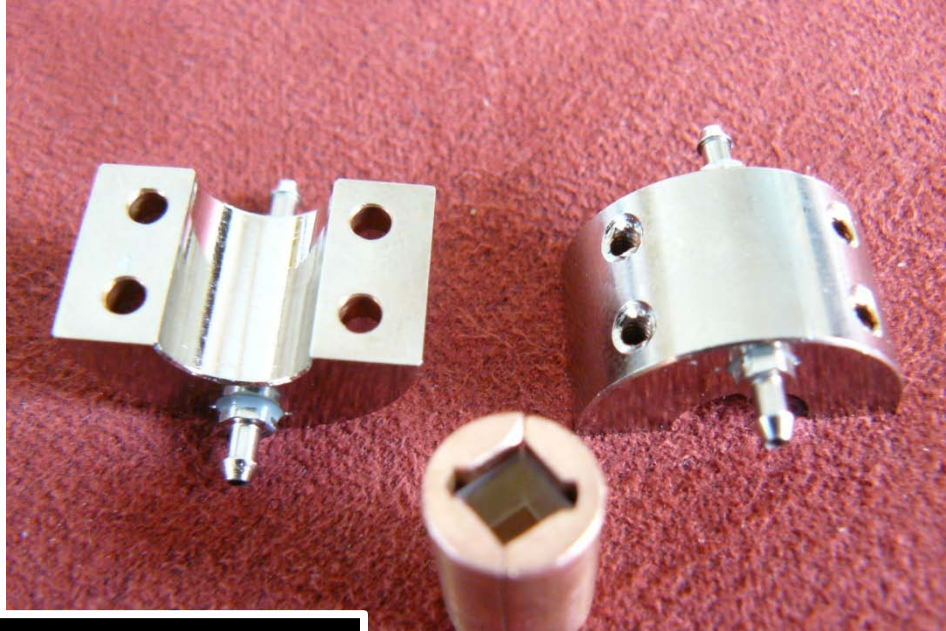
LBO quotation: Quantronix service dept is in a transitional period...

In parallel I found a Chinese company which can be a good option:

CASTON is a world leading manufacturer of LBO and BBO crystals.

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TiS LBO assembly
(Lithium Triborate crystal, LiB₃O₇)

