

Weekly summary

LASER1:

1. 6 Oct: new lamp. During B field ramping down.
2. Calibration and laser OK , online for a while before it went into error. No more light.
3. 7 Oct: no light because of damage YLF crystal. Why? I don't know, it has been damaged after replacing the lamp → seems water goes in because cathode of the xcal unglue. All tuning from scratch done in 1 day. Light OK but the evening, error again: 'Q switch fault error'
4. 8 Oct: need to put laser2 as main blue laser for laser correction. Hard to do it remotely: Jan V. went at pt5 but can't go down, no valid access. Finally I manage to do it remotely.
5. 10 Oct:
 - change the RF driver did not help. Error after 1hr.
 - change Switch itself, optical part (tuning...): no more error the afternoon
 - pulse OK at beginning thus put as main laser but then pulse drift to become out of range.
 - go back to laser2 as main laser.
6. 11 Oct: tuning of laser1 . RMS intensity quite high the morning (while internal trigger OK) Continue the afternoon. Same error occurred again the afternoon ..but maybe residual error (wrong error) on logic unit,ect.

LASER2: untouched. Wait TS to change the LBO TiS crystal and do the maintenance.

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Ti:S Laser1

1 hr data taking at 22A, internal mode:

- RMS intensity 3.5%
- jitter 2.2 ns
- FWHM = 22 ns

Online:

RMS intensity = 7%.
Don't know why

