

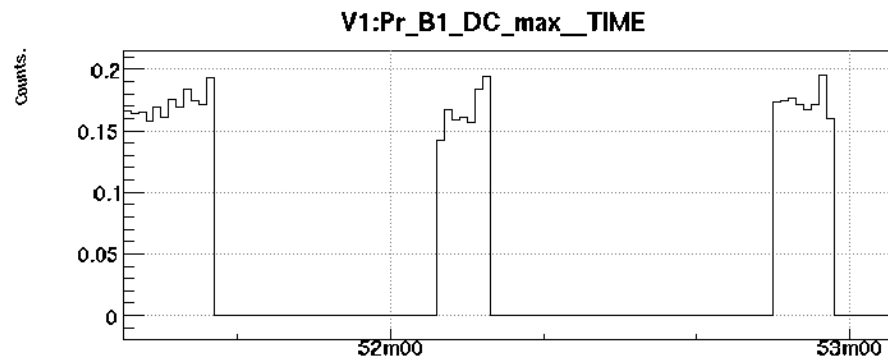
ITF Status

Bas Swinkels for the commissioning crew

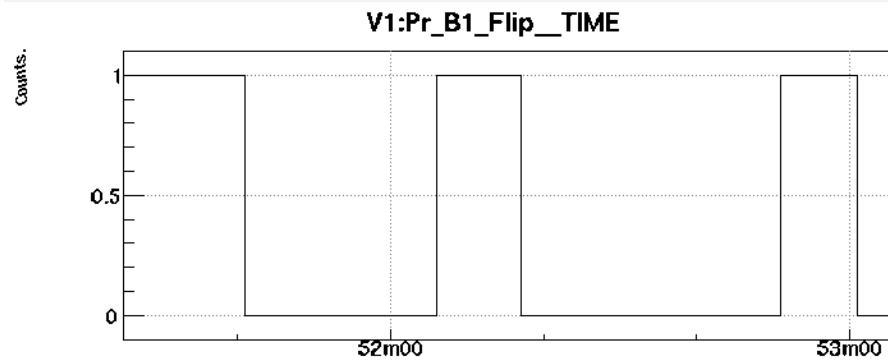
Activity this week

- TCS on, ~ 1.5 W per mirror
- SSFS control 3
- OMC locked reliably, DARM from B1p \rightarrow B1_d1 \rightarrow B1_d2 + B1_d3
- Low noise locking filters engaged
- Most alignment loops closed (see Maddalena's talk)
- End-mirrors reallocated to marionette
- Coil-drivers to low-noise
- First tests with alpha
- Corresponds more or less to step 11

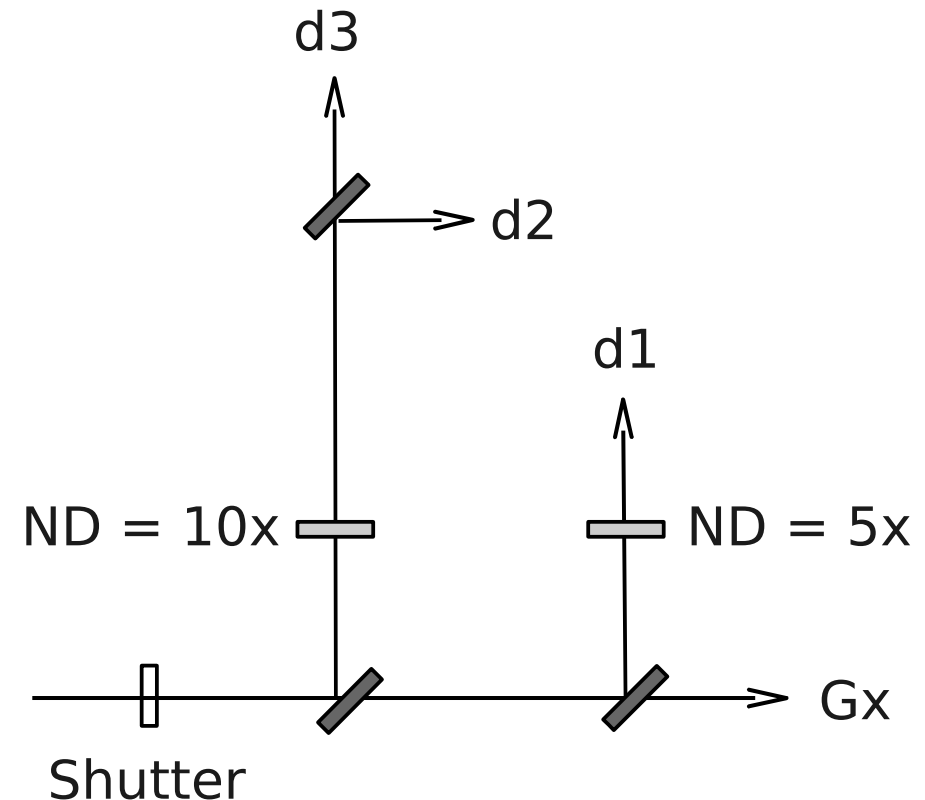
Neutral density filters on B1



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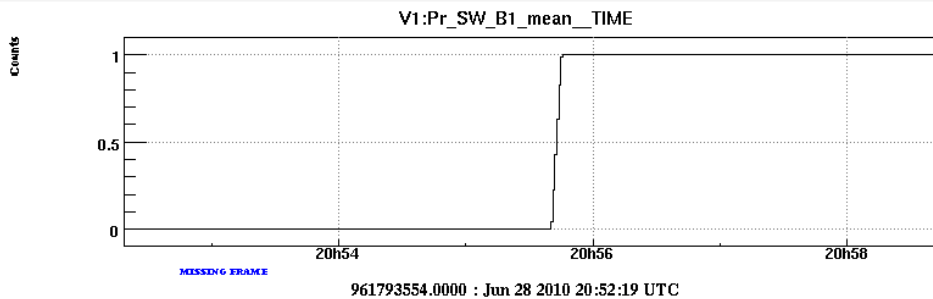
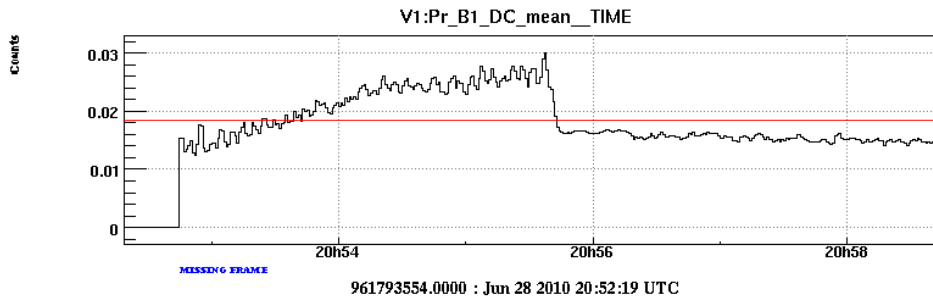
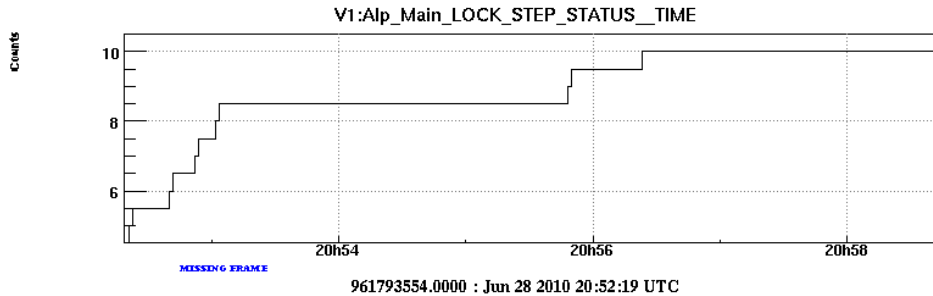


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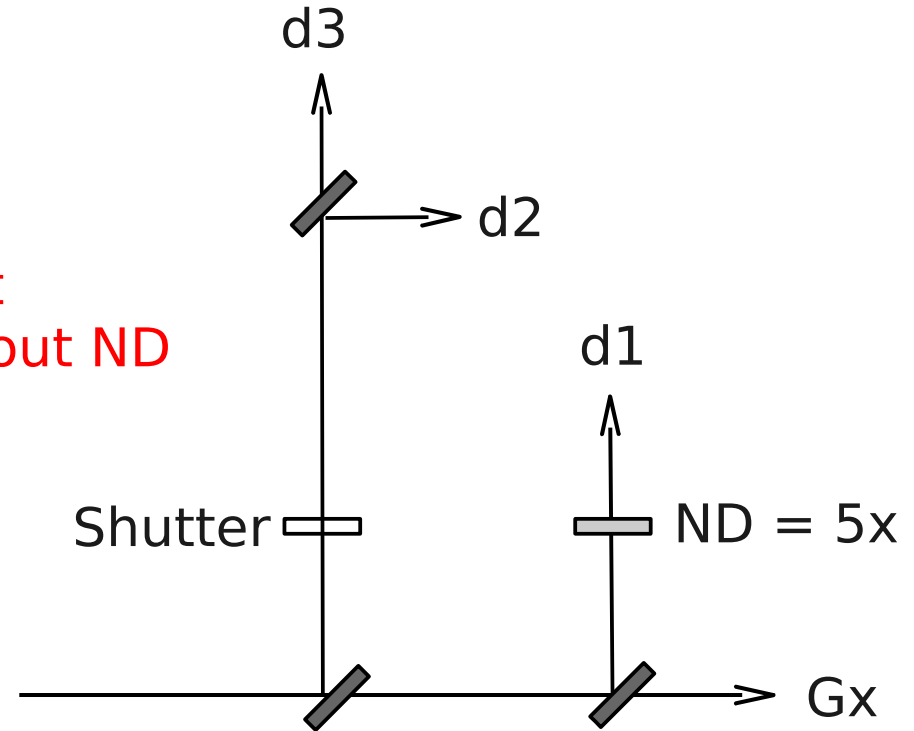


- Shutter closes when $B1_DC \approx 0.19$ W
- ND 10x placed before d2+d3 to prevent shutter closing
- ND 5x placed before d1 to not saturate OMC demodulator

Move shutter + remove ND?



Limit
without ND



- B1_DC should be low enough after switch DARM B1p -> B1_d1
- Move shutter on path to d2+d3
- Remove ND before d2+d3

Next actions

- Finish reallocation
- Finish alignment
- On detection bench: move shutter, align SFP, phase camera on B5
- Tune alpha/beta/gamma
- MICH -> B1_ACq, PRCL -> B5_ACq (might not work)
- First actuator calibration
- Sensitivity curve
- Noise hunting

End