

Timeline Thermal Noise Experiment

June 28th, 2016

Parts Thermal Noise Experiment

- PMCs
 - We have:
 - res 21.5MHz and BB
 - one Photodetector at 14MHz
 - May be we have one more of it
 - a pre-existing servo board
 - One oscillator
 - We need:
 - a new servo for the second PMC
 - check if the oscillator works for both the PMC
 - Photodetector for PMC 2

D and TBD

- Vacuum cavities
 - We have:
 - one res EOM at 14.5 MHz and one bb EOM with a resonant circuit at 14.5 MHz
 - Servos for both the cavities
 - Oscillator for both the cavities
 - Photodetectors for both the cavities
 - We need:
 - Need to make a precise design for both the paths in order to order lenses asap
 - Finish to Build the optical path on the North side
 - Start and finish to build the optical path on the South side
 - Take decisions on the modulation frequency
 - Building new photodetectors (Rich told me he has already few of them ready we need to ask about that)
 - EOM if we change the FM we need one more
 - DO WE REALLY NEED TO CHANGE THE FM?
 - Vacuum chamber : size and window



