

- o 2 Goals:
 - Look for sources of emittance growth
 - Understand discrepancy between emittance from luminosity and wire scanners

- 1. At injection: Influence of 50 and 100 Hz lines with different damper gains
 - 6 bunches + 144 bunches
 - Put tune on top of noise lines
 - Different damper gains: injection gain + ramp gain
 - Need BSRT, possible also BGI, wire scans
 - **...also wait for the results of the active filter test this weekend**

- 2. 5 x 6 bunch batches – effect of damper gain through the ramp; PM saturation
 - Scan of filter and gain versus beam size @ injection energy
 - Refill again to ramp with gain modulation
 - High gain, low gain, high gain, low gain for different batches. One batch excited, sacrificial
 - Will stay below wire scanner intensity limit. Limit $4e+12$ → $1.3e+11$ ppb
 - Scan of filter and gain versus beam size @ flattop
 - **(Squeeze) – might collide at flattop for SMOG**
 - Collisions. Need lumi data from experiments. Compare with experiments (ATLAS/ CMS) □

- o We would also like to have LHCb's SMOG
 - LHCb would be OK. They would help us.
 - Would need to **declare stable beams**
 - **If collisions in stable beams: need to check situation of interlocking**