CMS Planning LS2

**RPC**

**Analysis:**
- one IR send for maintenance → shipped back → aging test to do → ongoing
- if aging ok, install pump to re-inject gas → Q2/3 2022
- set warning for IR level → when flow mixer is final

**Purifier:**
- 3rd purifier to do: MFC install (to buy), electrical connection → low priority, Q2/3

**Exhaust:**
- DPT exhaust missing (currently in aging)

**Mixer:**
- repeat test flow vs isobutane% with the MFC → when flow mixer is final
- manometers freon/isobutane to change (mixer stop)

**Distribution:**
- Rotameters pre-distribution
  - Barrel R74: change knob 3.0 + test, if ok to order for all
  - Barrel G3: 5 to change > material ok
- Flowcell: possible to re-calibrate and install → maybe only Endcap → CMS RPC
- Endcap input: safety valves instead of bubblers? status? → CMS RPC

**Regulation Valves**
- high flow test → to check with Aleksander when we can do

**CSC**

**Distribution**
- stickers on bubblers
- canbus spare cable installed? → ongoing

**Exhaust**
- DPT exhaust missing (aging ok)

**Analysis**
- O2 cell to change → low priority

**DT**

**Mixer**
- leak test (stop system) → YETS 22/23

**Exhaust**
- DPT exhaust missing (aging ok)
**Analysis Rack** end 2022  
- 3D drawings (Mattia) + Material (Andrea)  
- upgrade works → 2022 to plan **FSU ELEC+MECH**

**Tracker**
- MFM x3 to dismount and put calibrated ones (HCAL HF, EB, WARM)  
- x3 dismounted to send to company  
- change last x3 MFM missing with calibrated ones  
* all changes need stop of the system → now it is cooled down

**GC**

**Surface APRIL**
- discussion for PPU column (new - no separation of peaks)  
- upgrade analysis lines with MW valve + GC inside rack **FSU WELD**  
- restore automatic analysis script + output results  
- redo results publication (website/DIP)

**Varian USC**
- define automatic integration for all lines  
- setup sequence + results output in txt file  
- results publication (webpage? DIP?)  
- calibration for all analysis (RPC, DT, CSC, GEM + O2/N2)

**Tracker**
- add flowmeter + PT on input line to GC  
- define sequence + automatic integration + results output txt  
- results publication (webpage? DIP?)