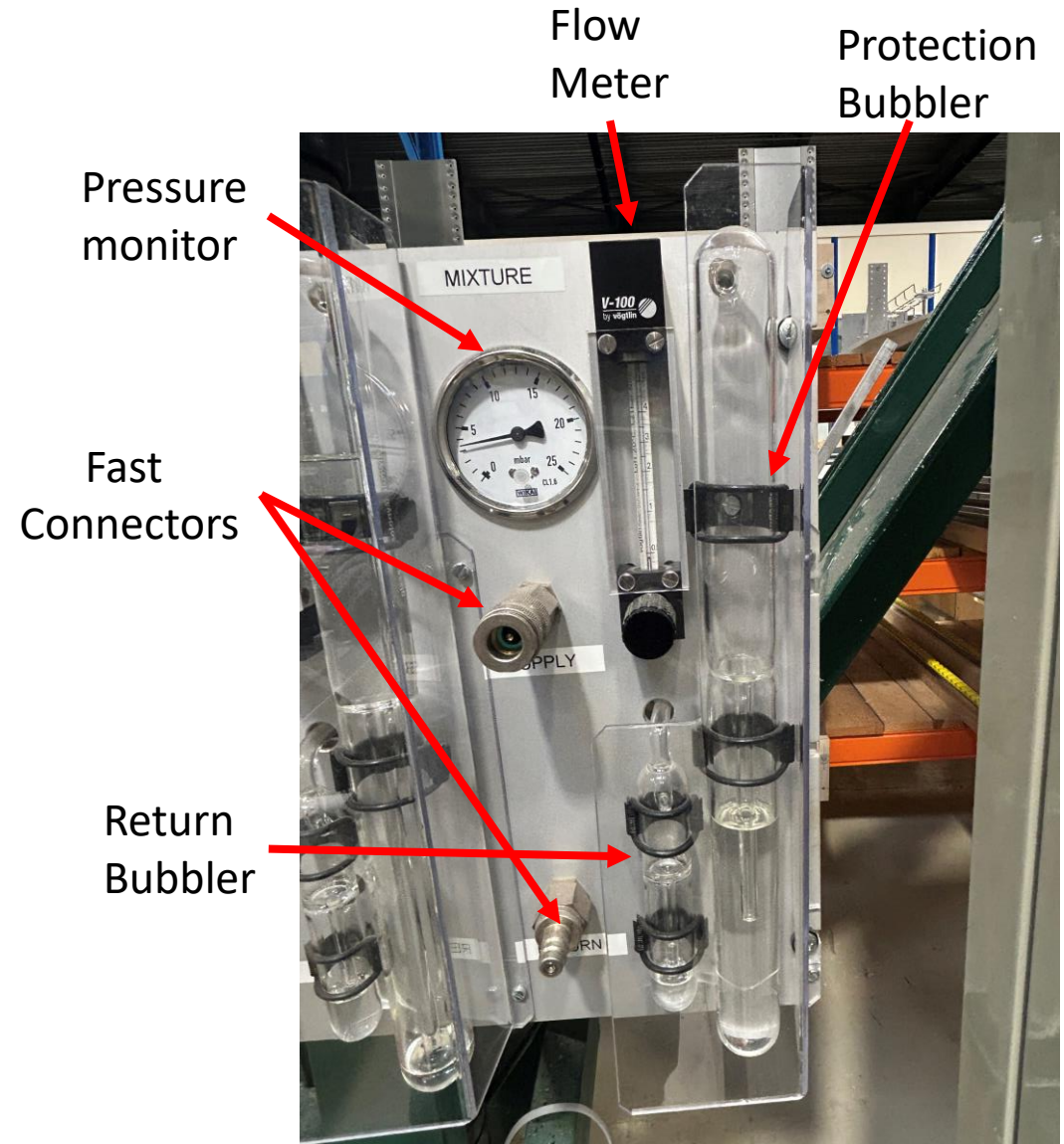


# CSC gas systems during LS3

Xiaofeng Yang(UCLA) on behalf of the CSC group

# Gas system at 904

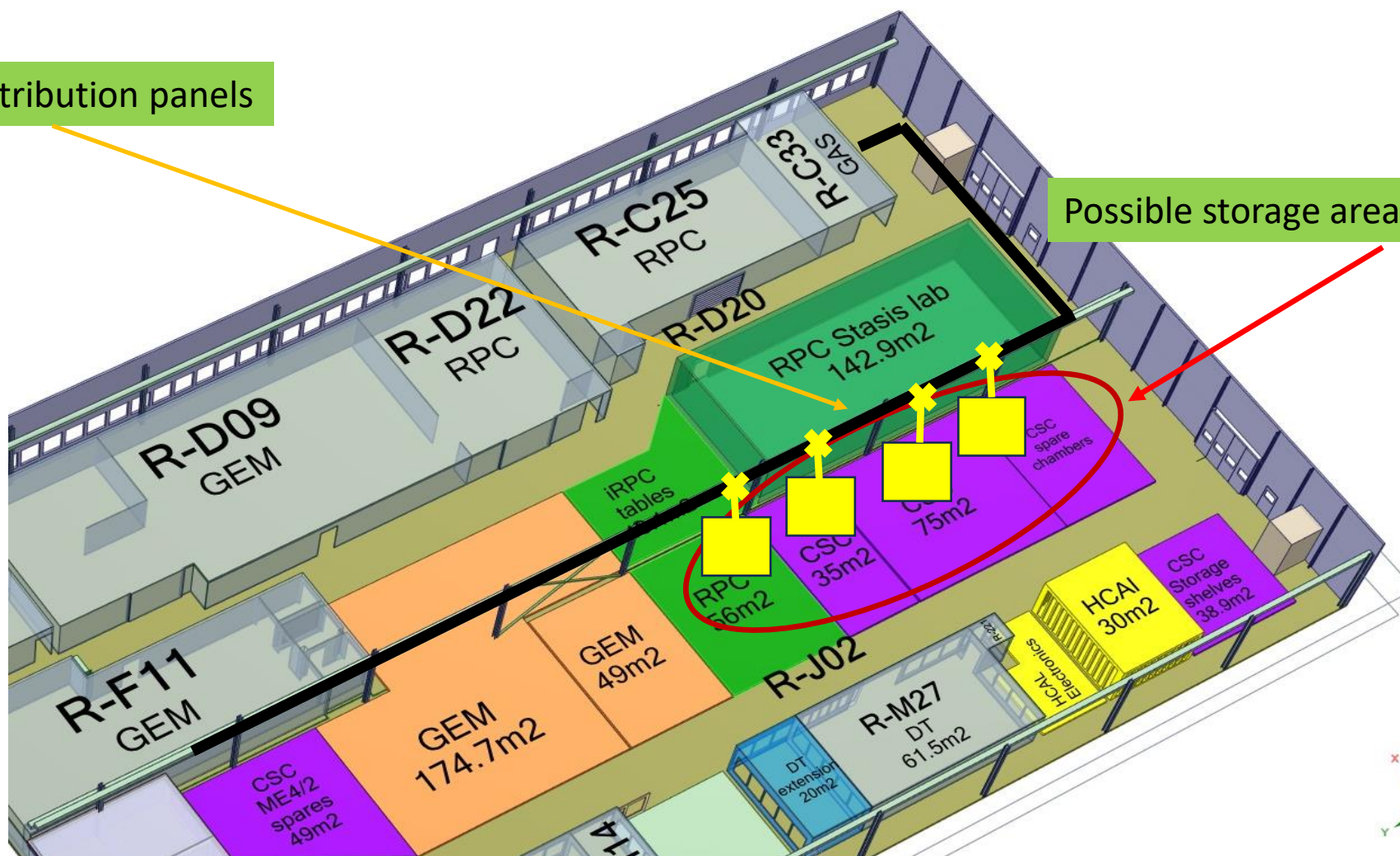
- Gas flow increases from 100L/H to 200L/H with 2-components gas (CO<sub>2</sub> +Ar)
  - install 2 new MFCs
- Gas channels increase from 12 to 20 for the chambers test and chambers storage
  - install 4 new distribution panels, 2 gas channels per panel



# Location of 4 new gas panels at 904

4 new distribution panels

Possible storage area for ME11/12/13



# Gas system at P5

- reduces gas flow before ME11/12/13 removing from YE1
  - all gas racks ON
  - to 200L/H in the mixer with 2-components(CO<sub>2</sub> +Ar)
  - in close loop with purifier on
- reduces gas flow after ME1/2/3 removing from YE1(possible from Aug.2026)
  - gas rack for YE1 stop
  - to 100L/H in the mixer with 2-components(CO<sub>2</sub> +Ar)
  - in close loop with purifier on
- increase gas flow after ME1/2/3 installing back to YE1 without chamber commissioning(late 2027)
  - all gas racks ON
  - to 200L/H in the mixer with 2-components(CO<sub>2</sub> +Ar)
  - in close loop with purifier on
- nominal gas flow when CSC starting chamber test with HV (possible from Jan.2028)
  - to 700L/H in the mixer with 2-components(CO<sub>2</sub> +Ar+CF<sub>4</sub>)
  - in close loop with purifier on