GMn & GEn-RP Configuration (2021 …

In BigBite Spectrometer (electron arm)

- 4 INFN GEM layers ⇨ 12 modules ⇨ need: (10 L/h × 12) = 120 L/h
- 1 UVa GEM layers: 4 modules ⇨ need: (17 L / h × 4) = 68 L/h

In SBS Spectrometer (proton arm)

- 2 INFN GEM layers ⇨ 6 modules ⇨ need: (10 L / h × 6) = 60 L / h
- 10 UVa layers: 40 modules ⇨ need: (17 L / h × 40) = 680 L / h

Total Gas need: Gas need: ~ 940 L / h

- **Two different locations: (BB and SBS)**

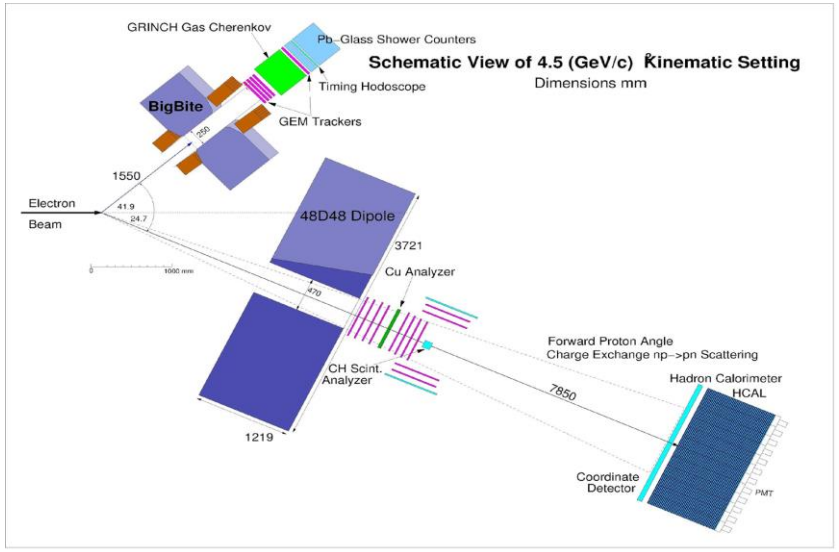
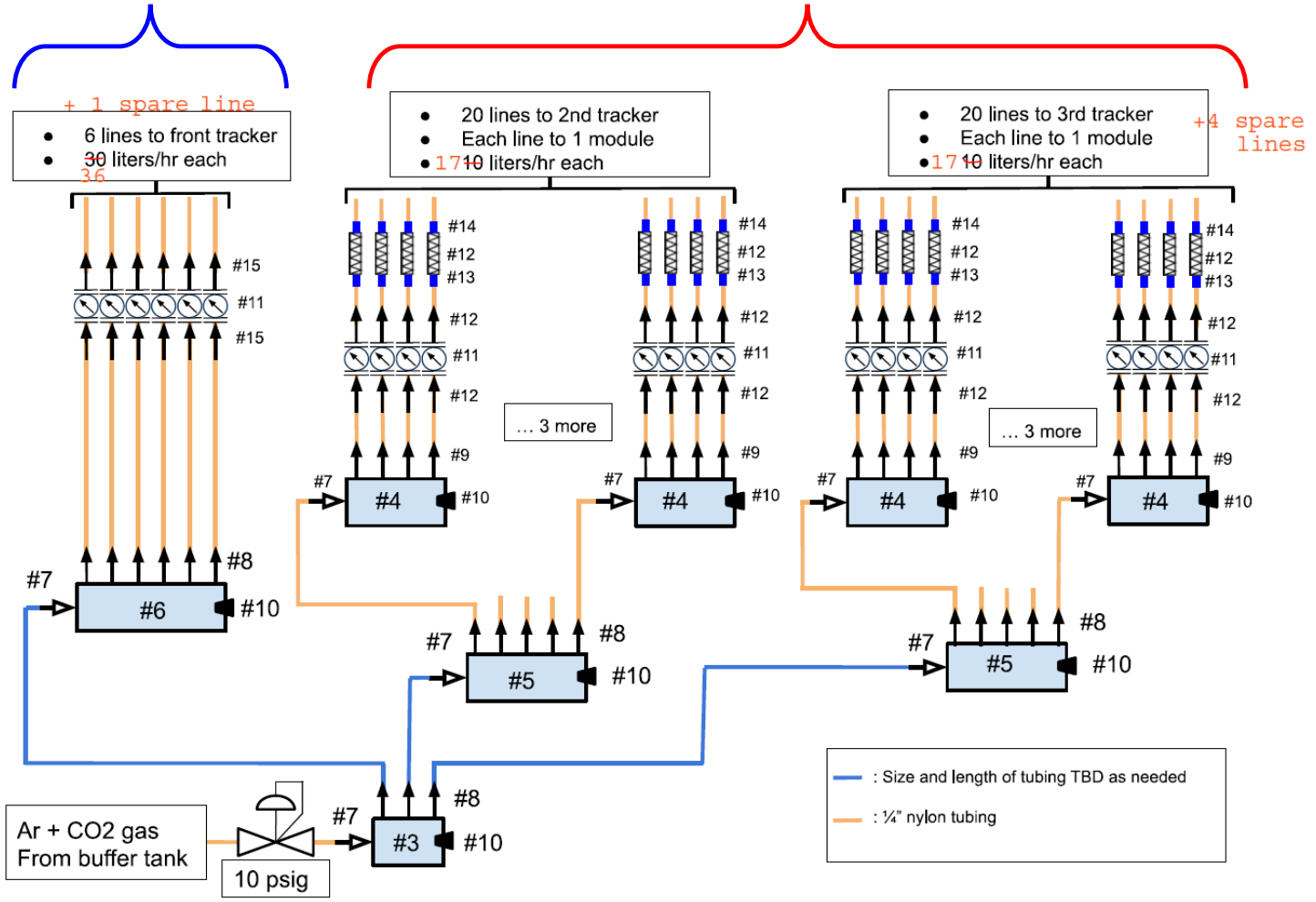


Figure 2: *Schematic Experimental Layout.*

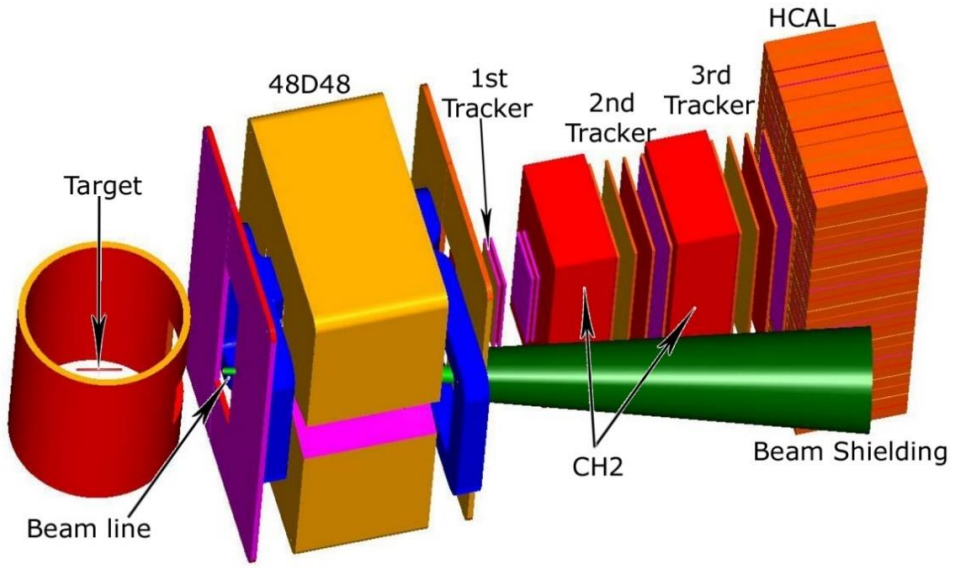
INFN GEMs: 4 lines to **BB arm** and 2 lines in **SBS arm**

UVa GEMs: 40 lines to **SBS arm** (+ 4 spares to **BB arm**)



GEP Configuration (later …

- 6 INFN GEM layers ⇨ 18 UVa GEM modules ⇨ Gas need: (10 L / h × 18) = 180 L / h
- 10 UVa layers: 40 UVa GEM modules ⇨ Gas need: (17 L / h × 40) = 680 L / h
- **All 16 layers in the same location: (SBS Proton arm) ⇨ Gas need: ~ 860 L / h**



Hadron arm in GEp(5)