## GEM and Scint in Jun 18<sup>th</sup> MD.

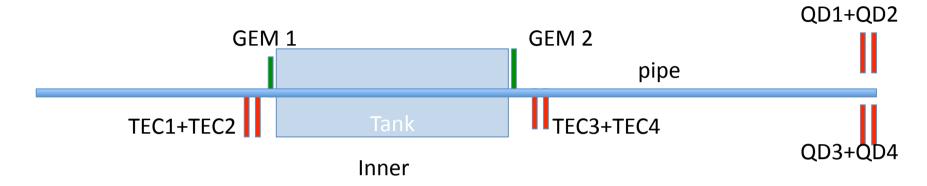
G.Cavoto, F.Murtas, R.Santacesaria, P.Valente

### **GEM** status

#### • Fabrizio:

- Access during Jun 18<sup>th</sup> (morning)
  - Removed noise due to interference with beampipe currents
  - Set threshold to rather high value
  - GEM counts zero when no beam, tank radioactivity seen in the morning.
- Both GEMs show some high currents (~100nA should be <10nA) at cathode and in some gaps, even with no beam
  - Can be operated but this makes us nervous.
    - » Will be investigated in the next days (from offsite)

# GEM+Scint.s during beam coasting



- PMT all ON checked single counts, all non-zero
  - Found TEC1 and TEC2 used with Cerenkov... (not connected to DAQ)

\_

- GEM 2 ON
  - GEM 1 too large (1.5muA) cathode current kept off

## What I saw...

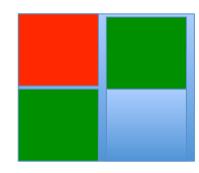
- Thanks to Alessandro, Java interface was accessible
- Start to look at around 6:20 to beam.
  - GEM at 900(600) V (low gain standby condition)
  - PMT thresholds not optimized
  - Found QD1+QD2 coincidence not working (zero counts)

	Coasting	Nobeam	Beam-loss	
GEM2	17KHz	0	Several 10 <sup>4</sup> Hz	
TEC3+TEC4	3*10^4 counts	1*10^4 counts	7*10^4 counts	
QD3+QD4	1-10 counts	0	100-10^3 counts	

## Some considerations

Can clearly see beam instability with PMTs and GEMs

- GEM rate not uniform
  - Pattern in pads rates to be investigate



All pads 17KHz Few pads 17KHz All pads 0Hz

 TEC3+TEC4 need to have discr. thresholds raised