

Possible ECOGAS SETUP for CMS :

Test performance with new mixtures of:

DETECTORS :

- ❑ A 2mm double gap chamber with standard CMS electronics (Thr ~ 220 mV \rightarrow 150fC)

output LVDS

- ❑ A 1.4 mm double gap chamber with Kodel electronics
(Voltage amplifier , threshold ~ 50 fC)

Output : LVDS

DAQ:

VME with CAEN TDCs : LVDS signals

Record : trigger signal AND strip signals at the same time to enhance time resolution (Mandatory)

TRIGGER

Set of scintillators in coincidence with the two 30x 40 cm² external scintillators :

Rate ~ 100 - 1000 muons / spill

TRACKING system :

Two or three RPC's from RE1./1.:

2mm gap with standard CMS electronics

ONLINE & OFFLINE use

✓DAQ software
✓Hardware exists