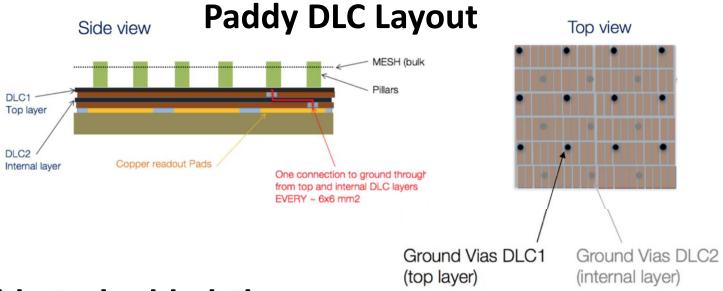
Small Pad Resistive Micromegas TB activity in 2018

Massimo Della Pietra
University "Federico II" – INFN Naples
on behalf of "Paddy R&D Group"

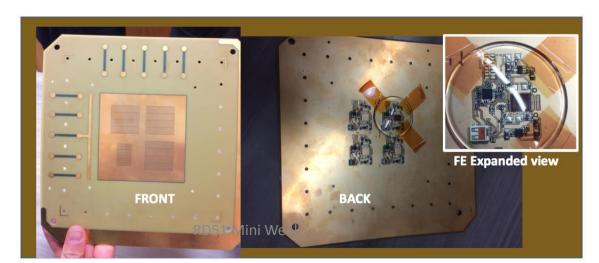
Small Pad Resistive Micromegas

- Detector tested in 2017
 - Paddy with DLC resistive electrode (very high resistivity ~80MOhm/sq)
- Detectors to be tested in 2018
 - New Paddy with DLC resistive electrode prototype(~20MOhm/sq)
 - New prototype with embedded electronics (new after a layout and connection debug)

Small Pad Resistive Micromegas



Paddy Embedded Elx



Beam Periods and needs

- October 24-31 slot is our main priority
 - If new prototypes will be ready earlier and we will have enough time to extensively test at least one of them in July we can consider also 1 more week in August
- We need from RD51:
 - The gas system with a premixed bottle of Ar/CO₂ (93/7)
 - The HV system with both Positive and Negative power supply modules.
 - The trigger system with RD51 hodoscope of 10x10 cm2 scintillators and, optionally, one finger
 - A NIM crate with some standard modules

Beam Periods and needs

Tracking system:

 We will use as a tracking system two Tmm chambers (we will procure them)

DAQ:

we will use our SRS+FEC+ADC system with APVs

Beam:

We would like to have both muons and pions beams.
 High intensity pions will be very important

Magnet system:

 We don't need magnetic field. We would like to have our system upstream with respect to the magnet