

News and progress from Micromegas

Carleton U.
TRIUMF

D. Attié, P. Colas, M. Dixit, Yun-Ha Shin, W. Wang, S. Wu

Status of the single modules

**Results from a high intensity
beam test**

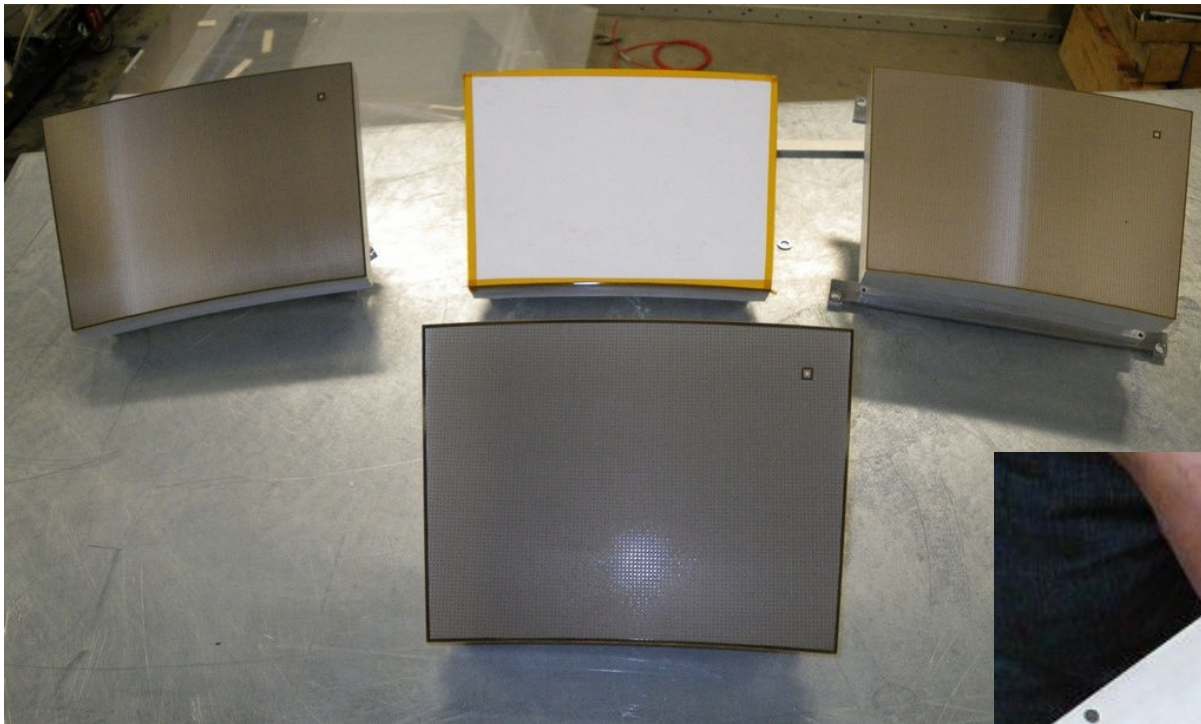
Collaboration with India

Protection test

**New resistive and mesh
studies in progress**

Analysis meeting soon?





5 panels have been realized so far
-1 standard
-1 resistive ink
-1 resistive kapton MW /
-2 resistive kapton MW / , one in 6
layers the other in 4 layers.

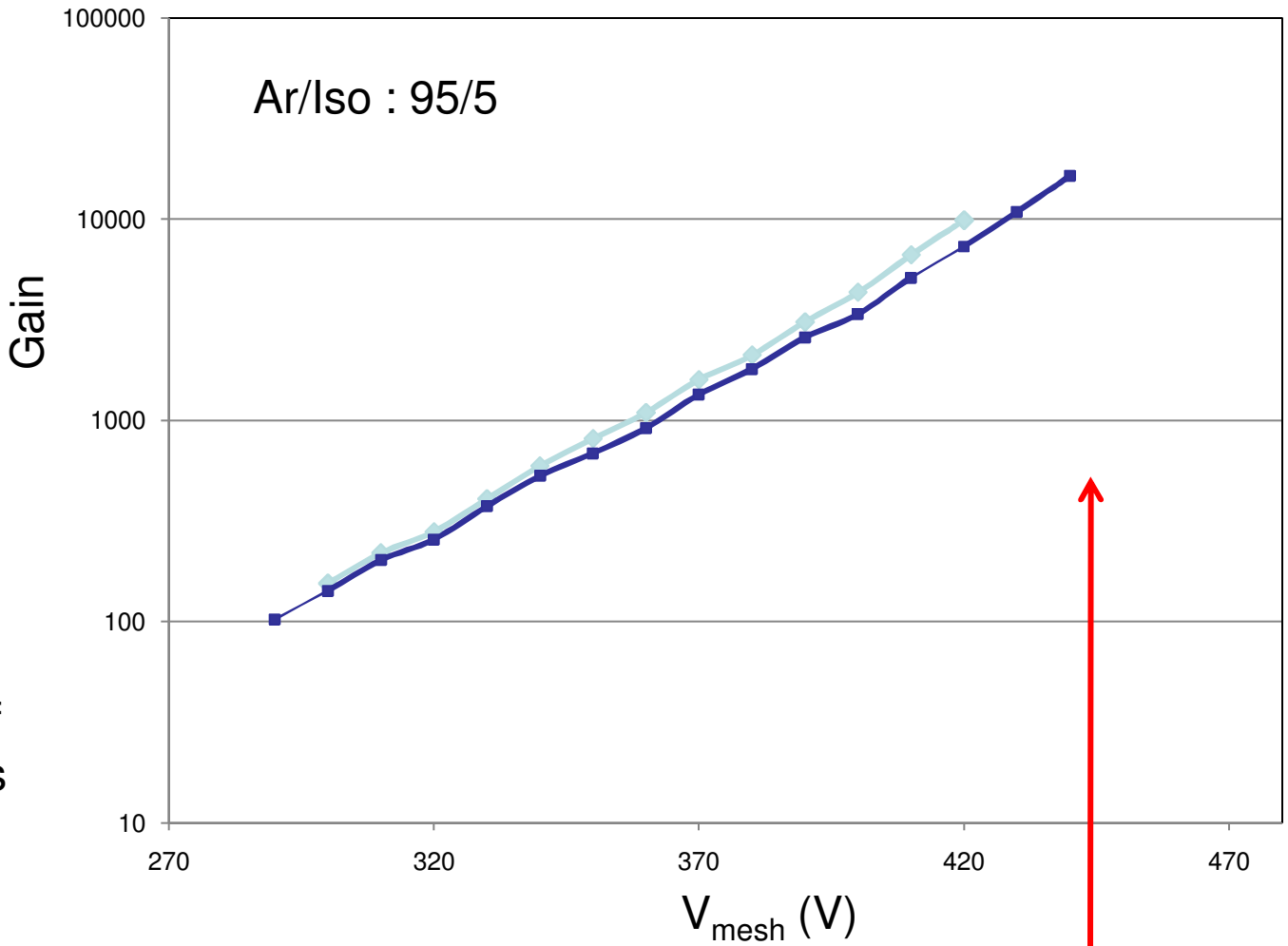
Gain curve measured from mesh current at 10^5 Hz (upper) and 2×10^4 Hz (lower) of pions

FIRST TEST AT HIGH HADRON INTENSITY

Primary ionization :
1800 e- per track
(17 cm track length)

Measure currents of typically 10s to 100s of nA.

Consistent with measurements at low rate



Hit current limit at 500 nA without breakdown

Next data taking in DESY

- Week 50: 2 new single modules, one after each other, at $B=0$. Goals:
 - To prepare for a final data taking run at $B=1\text{T}$ with z scan
 - To study cross-talk (2 different routing techniques used)

March : data taking