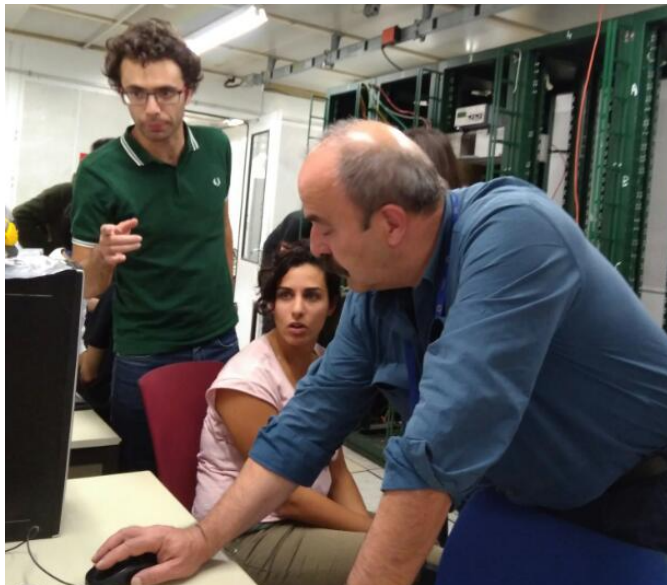
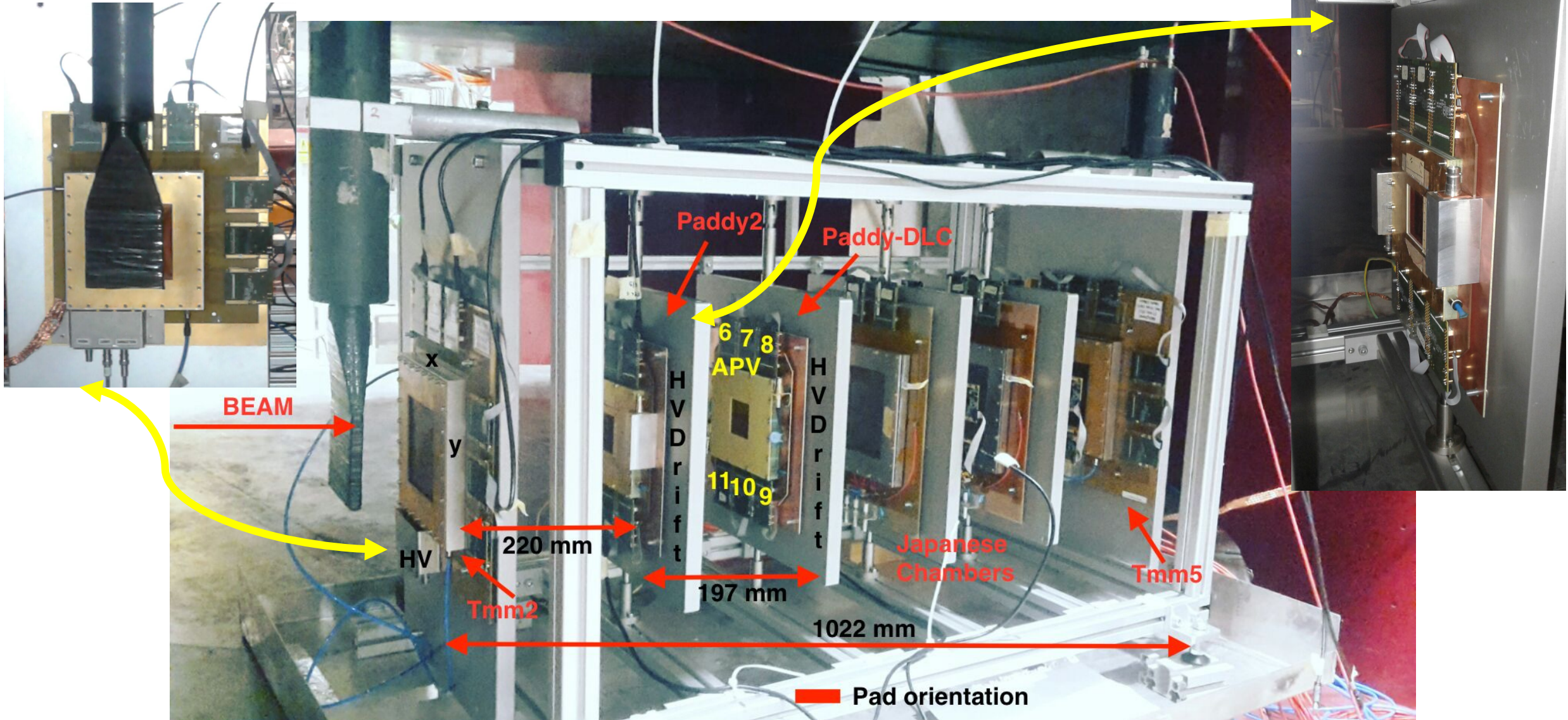


# Test Beam October 2017

Alessia Renardi & Eleonora Rossi



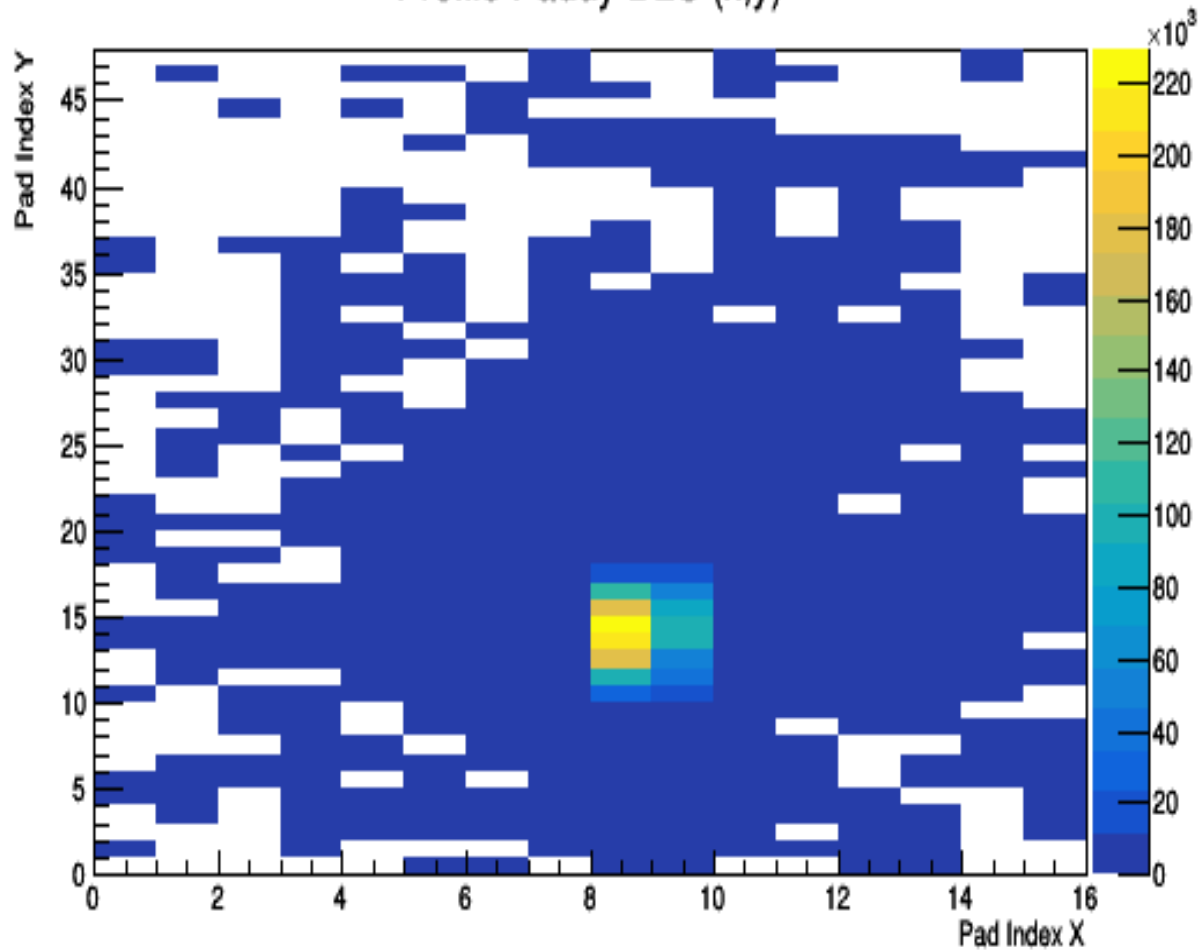
# Test Beam Setup Standard Configuration



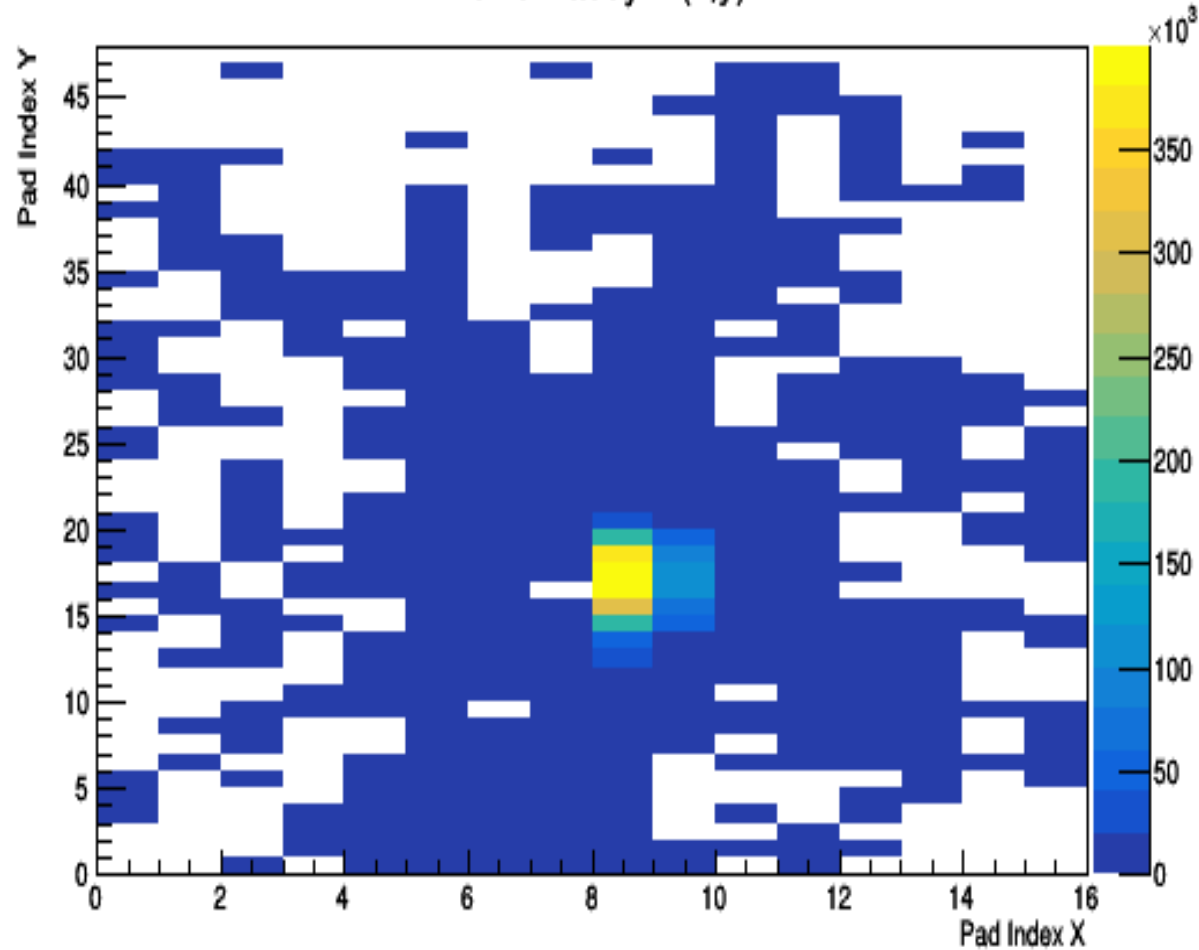
# Beam spot examples

Run number: 48; Pion beam hitting 12 mm DLC region, 2400 events

Profile Paddy DLC (x,y)



Profile Paddy 2 (x,y)

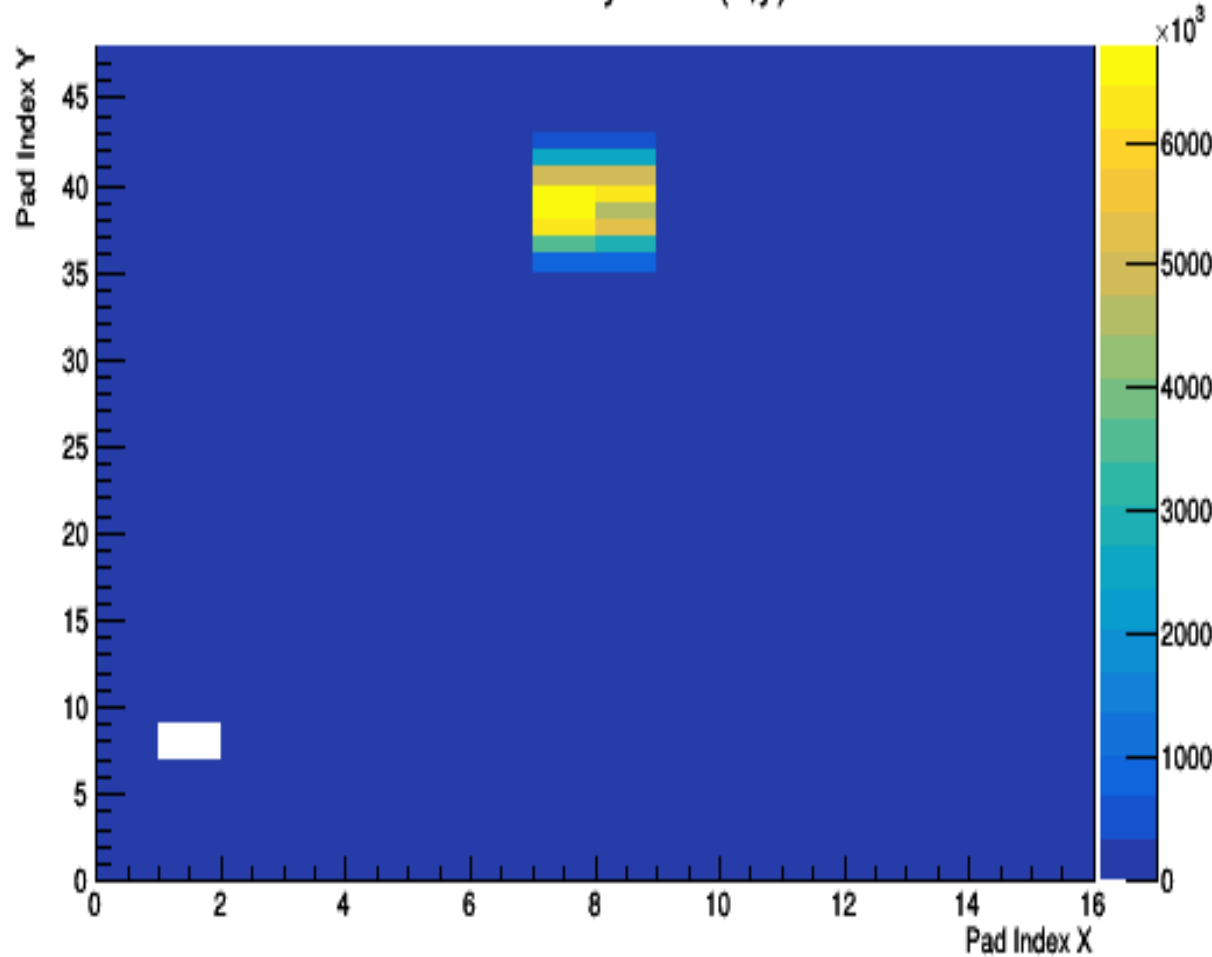


Cut at 40 ADC counts; no cross-talk correction

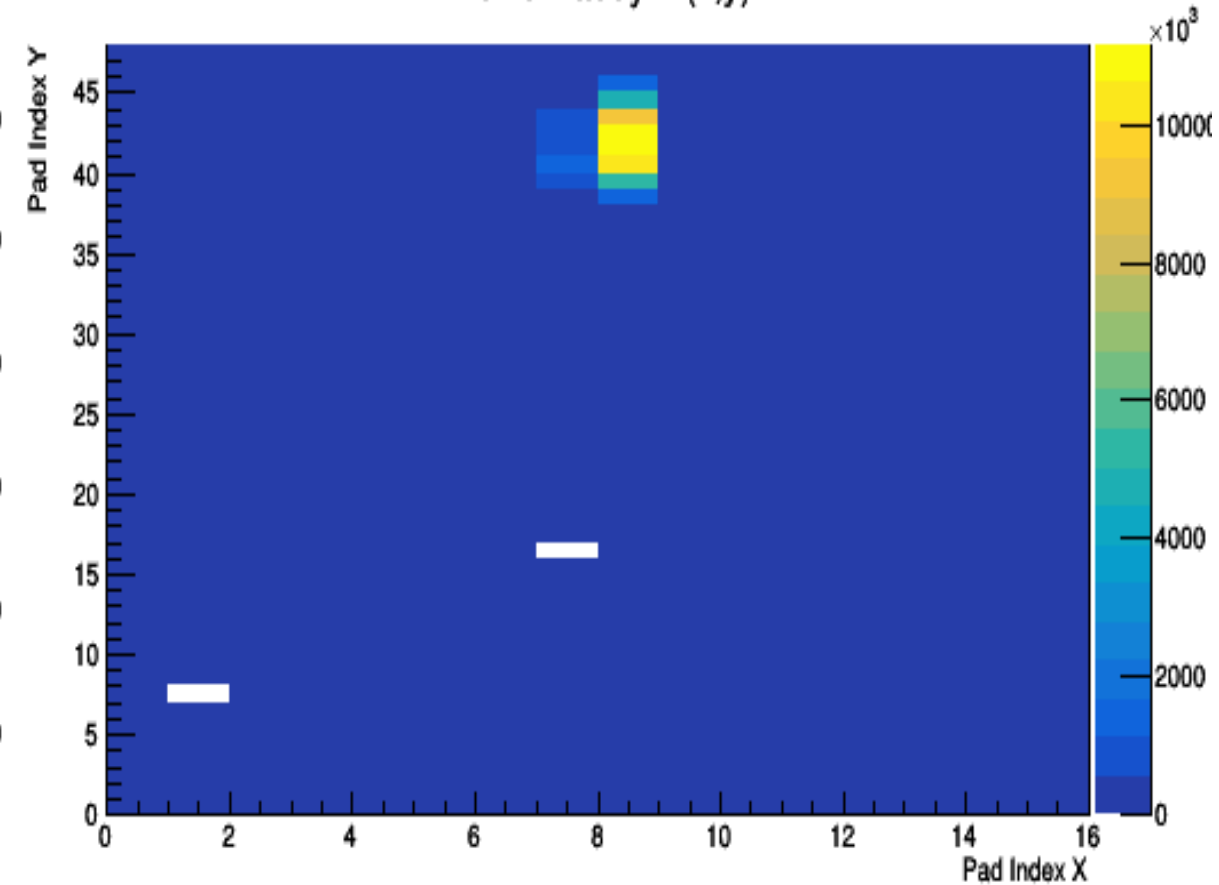
# Beam spot examples

Run number: 53; Pion beam hitting 6 mm DLC region, 38600 events

Profile Paddy DLC (x,y)



Profile Paddy 2 (x,y)



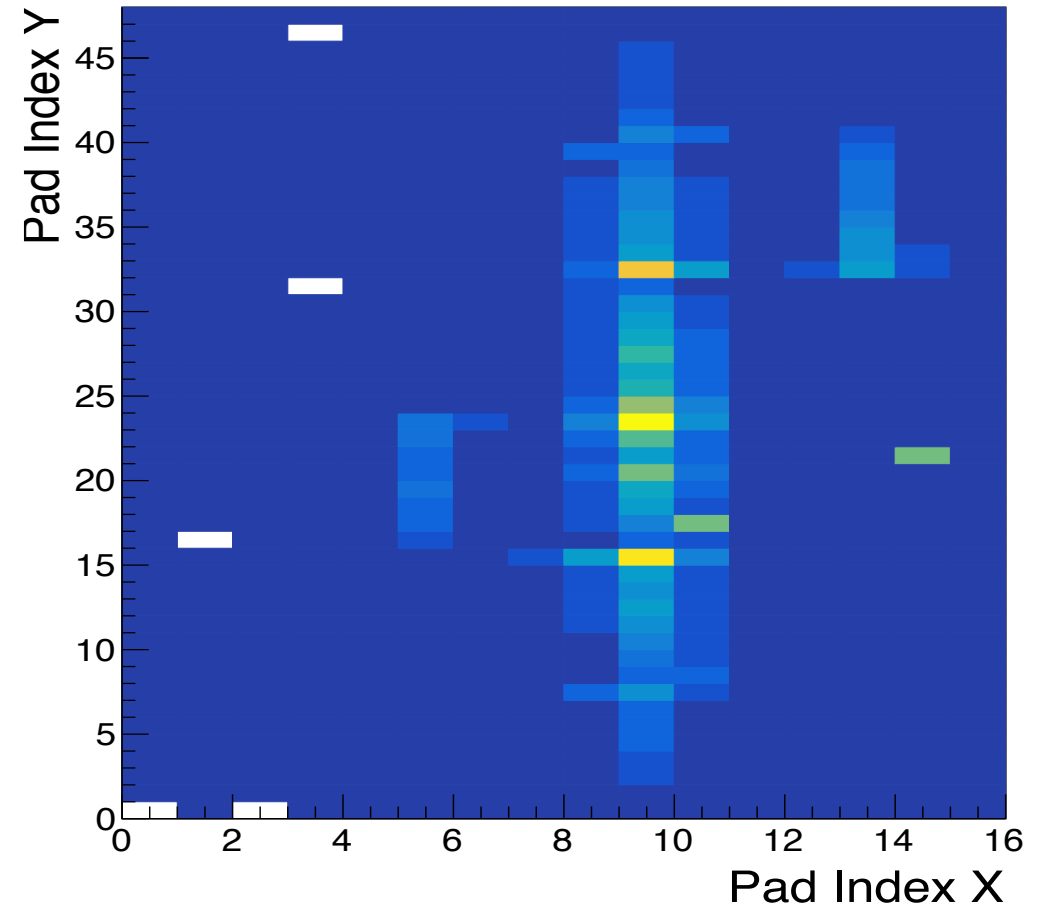
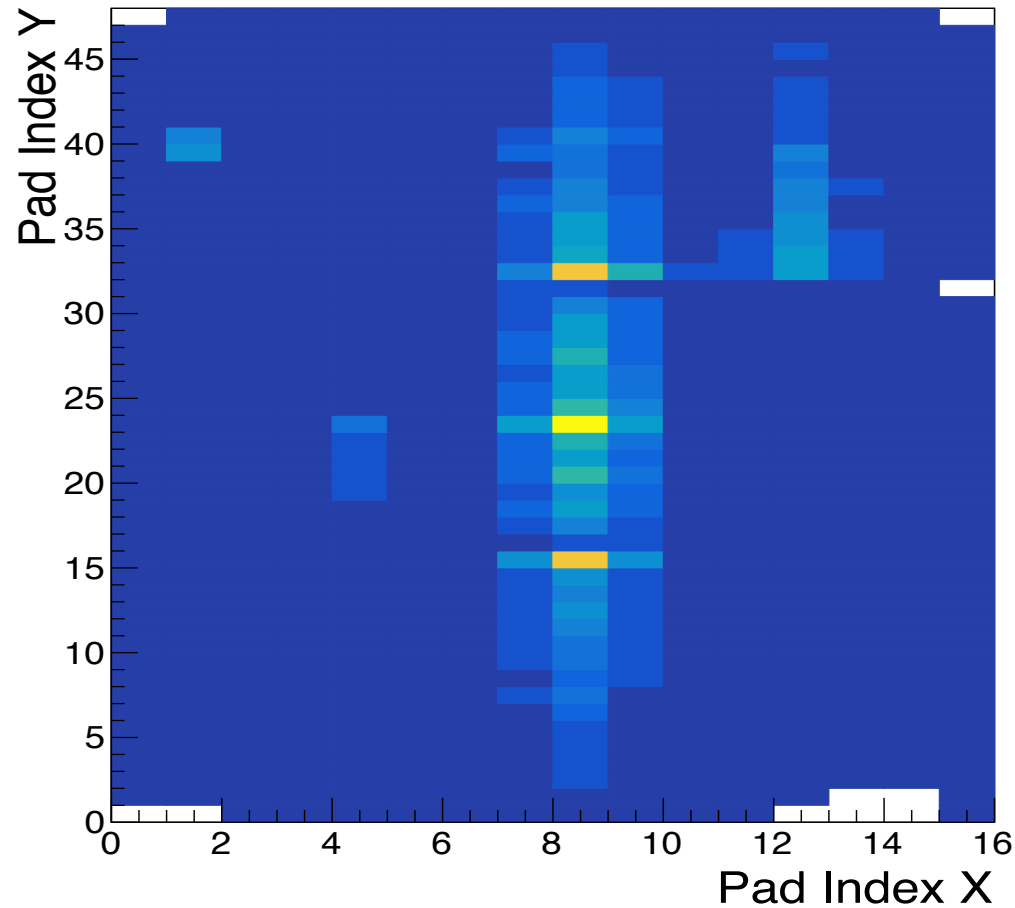
Cut at 40 ADC counts; no cross-talk correction

# Beam spot examples

Run number: 58; Pion beam defocused in order to hit both DLC regions, 58000 events

Profile Paddy-DLC

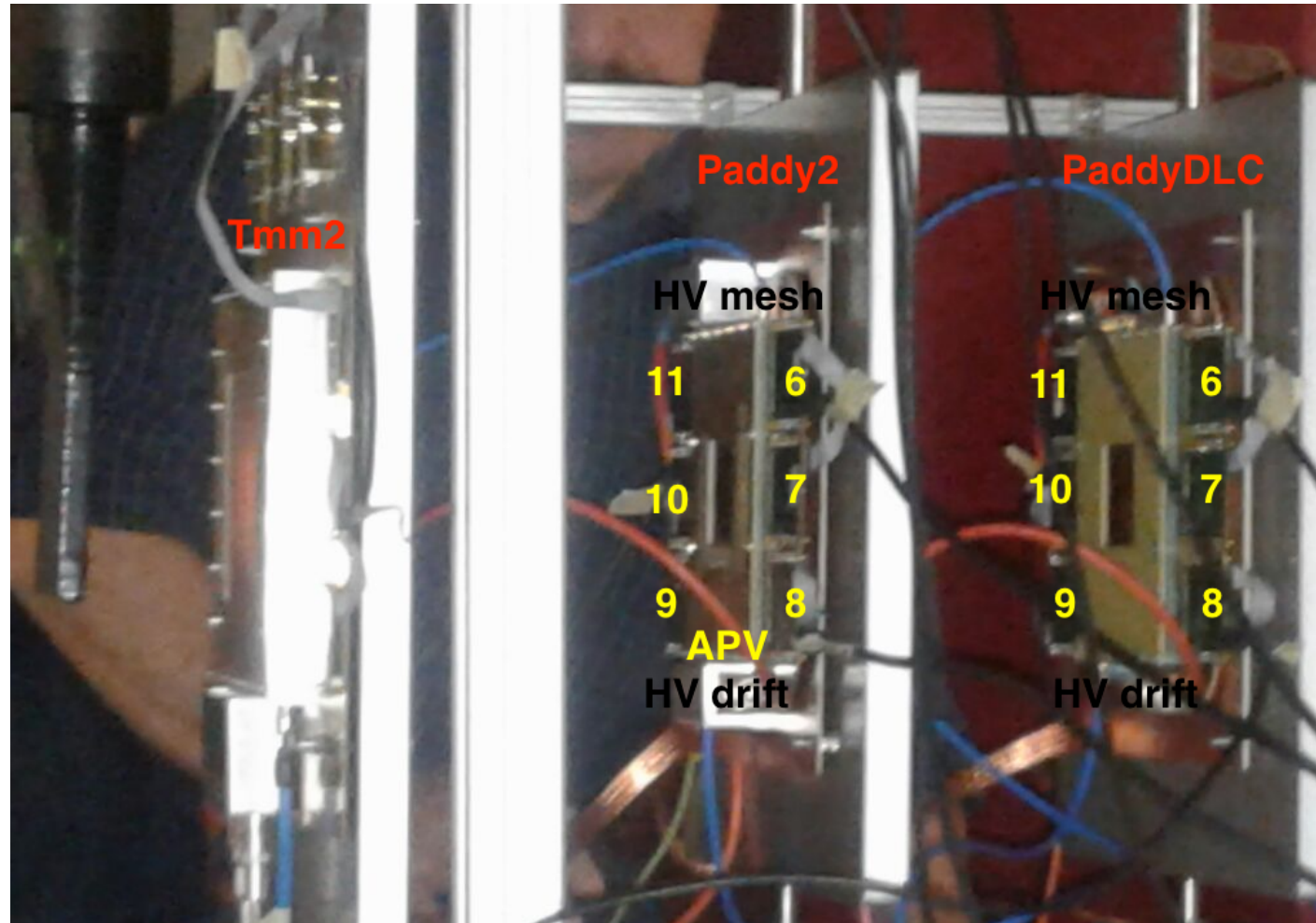
Profile Paddy-2



Cut at 40 ADC counts (Paddy-2); no cross-talk correction

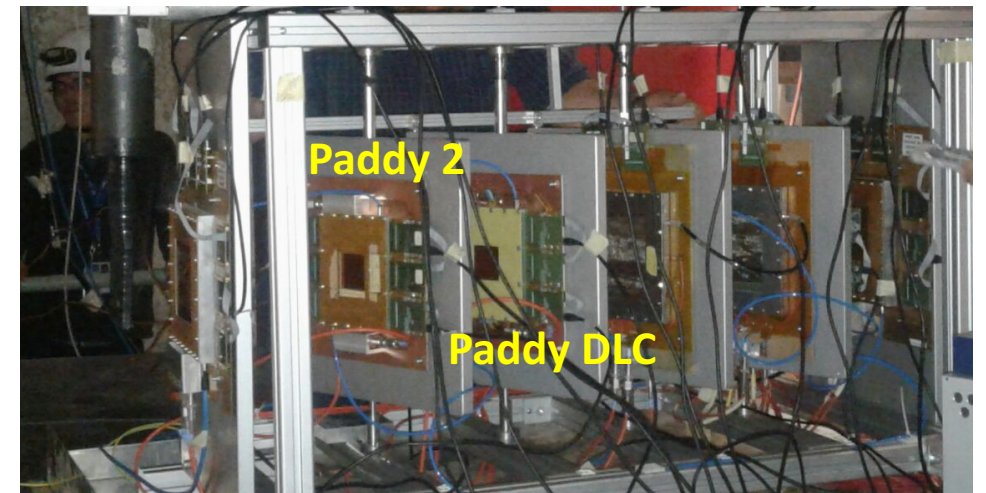
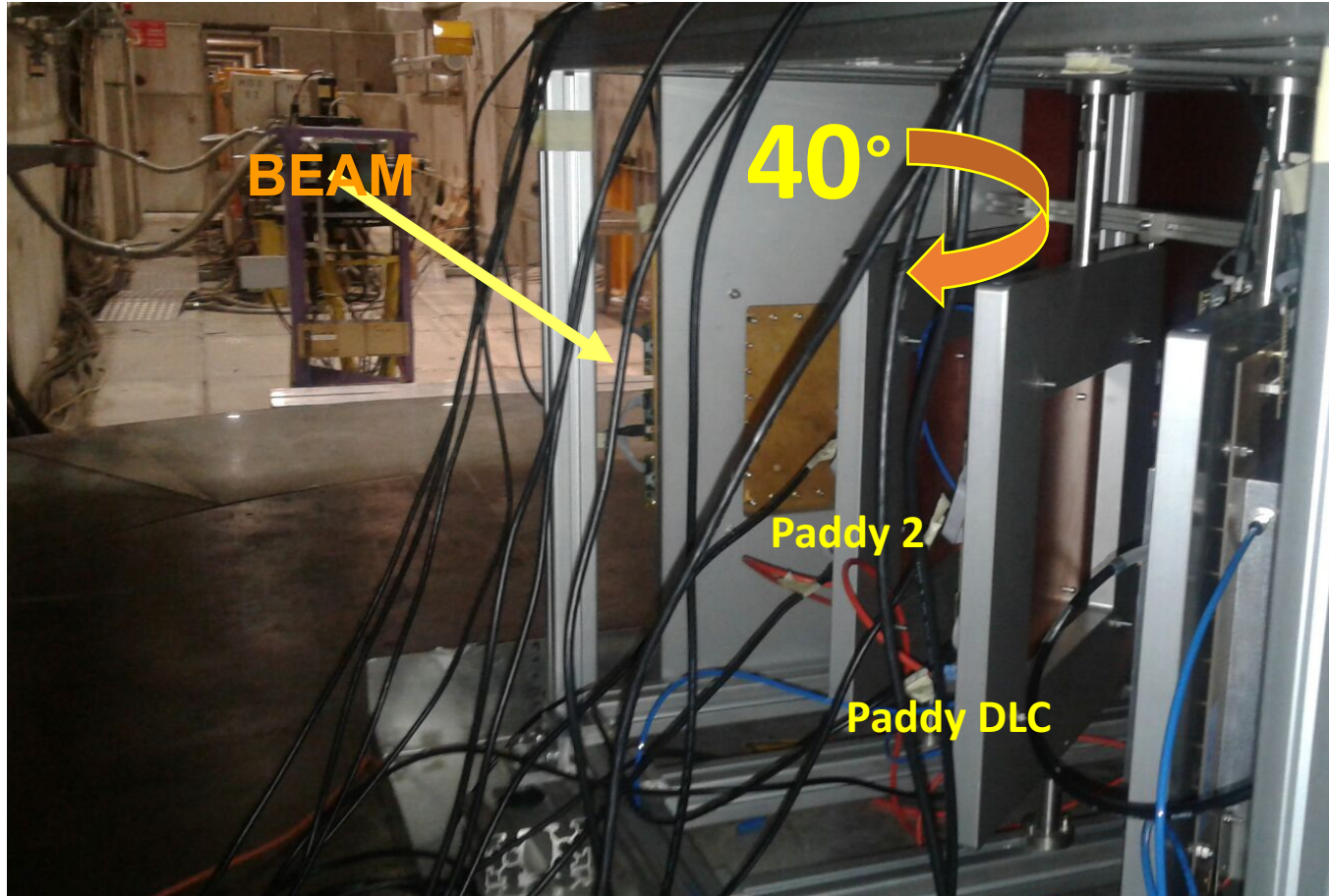
# Test Beam Setup

## Clockwise rotated Configuration



# Test Beam Setup

## Chambers Rotated with respect to the beam axis



# Test Beam good run list

BEAM	RUNS	COMMENTS
muon	7-20	HV scan Paddy2 & DLC (250 V tra M-D)
	22+26-41	HV const, all night
	23-24-25	HV_amp fixed, HV_drift changed
pion	47-52	one (12 mm) DLC region hit
	53-54	the other (6 mm) DLC region hit
	55-62	defoc. beam on Y axis to hit two regions (beam not stable during some runs)
muon	65-79	HV scan=>Paddy2 HV increases, DLC HV decreases (4 points)
	82-87	Paddy2 & DLC rotated of 90° clockwise on z axis (slide5); trigger delay changed, times have been anticipated (3 time bin)
	90-96	Paddy2 & DLC rotated of 40° (slide6) anticlockwise on y axis; flow increased
	99??	Paddy2 & DLC rotated of 20° anticlockwise on y axis



# Test Beam Useful Links

**Summary of runs and comments:**

<https://docs.google.com/spreadsheets/d/17319LLQKyCuViipFmdsFNOdTV2QXyL8PxxV3i4BanBk/edit?ts=59df44a9#gid=1665238471>

**Link to test beam runs:**

<https://cernbox.cern.ch/index.php/s/weTkrB7t7HoDUt2>

**Link to Fe55 runs:**

<https://cernbox.cern.ch/index.php/s/OT04pSxk85YeiQN>