## Preparation for scintillator tests

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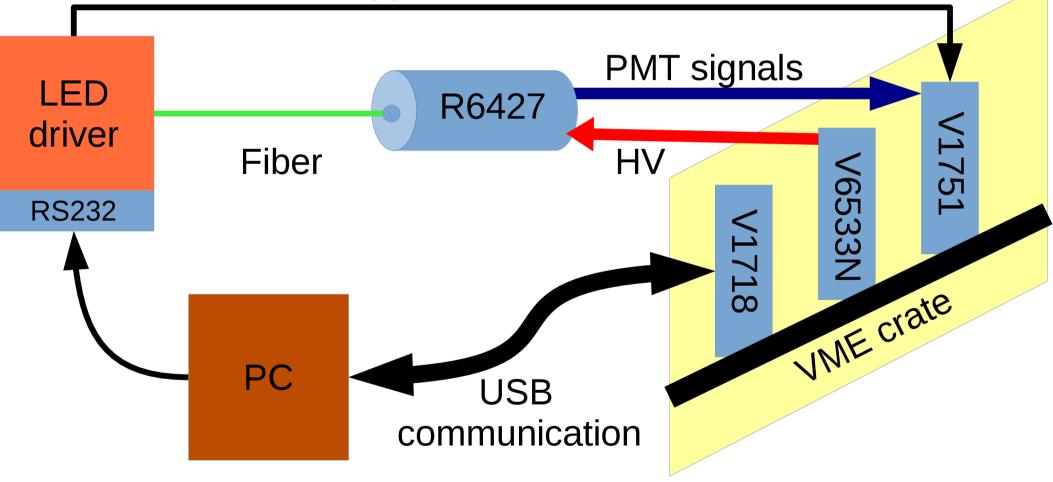
PADME collaboration meeting 01.03.2016

# Outline

- Tools and facilities
  - Scintillation resembling LED generator
  - Light tight box
  - Precise positioning stand
- Scintillator measurements
  - Beta source
  - LED generator

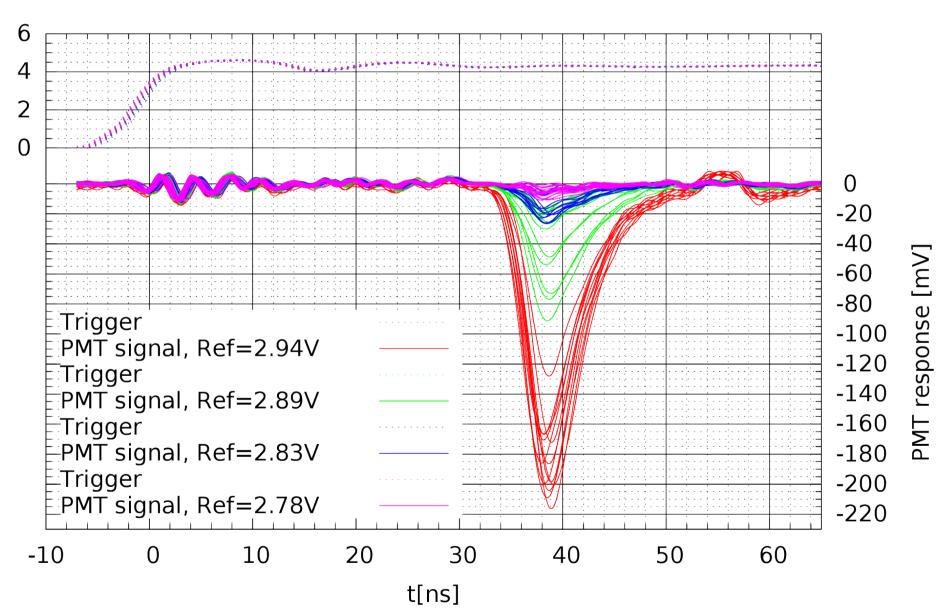
## LED generator

#### Trigger & SOB/EOB

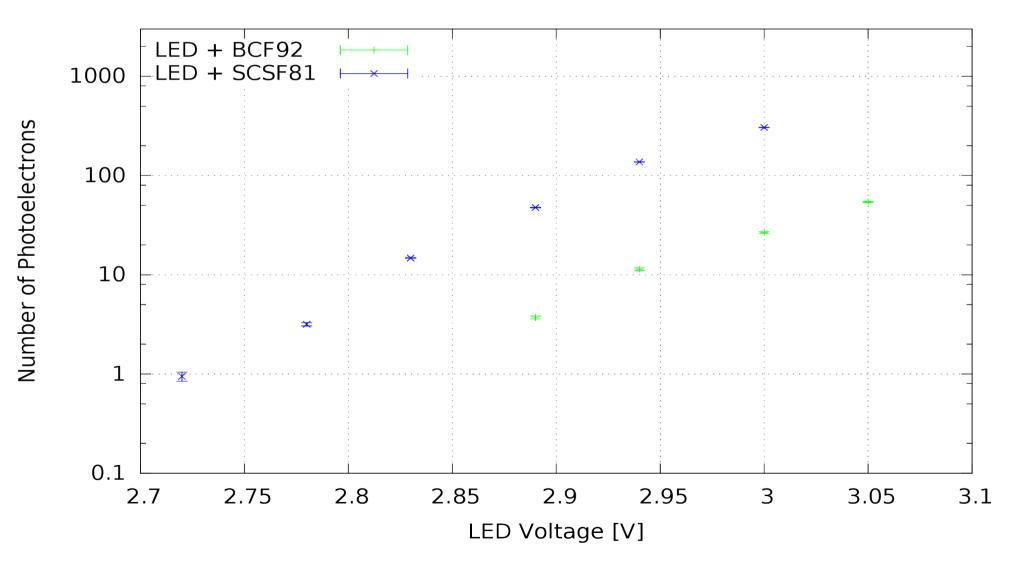


### LED generator different regimes



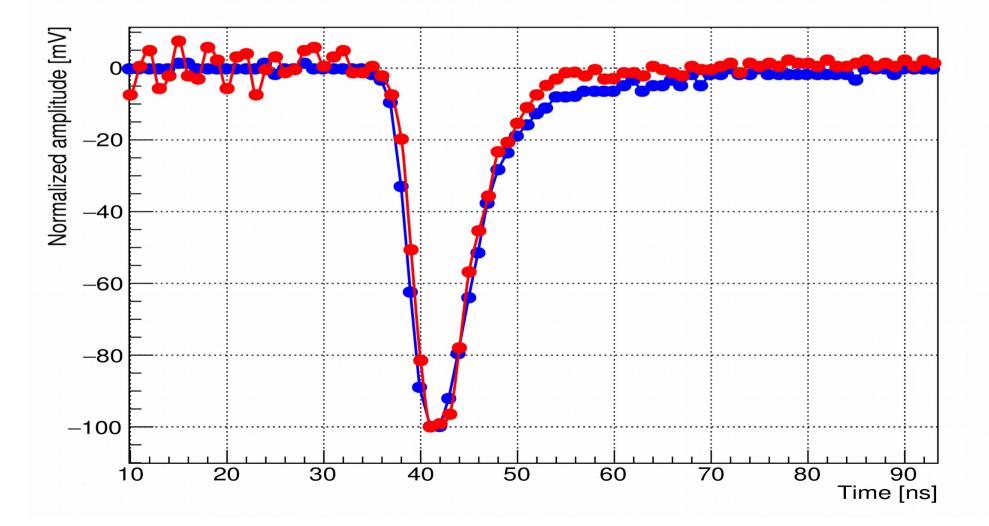


#### Photoelectrons vs LED ref voltage

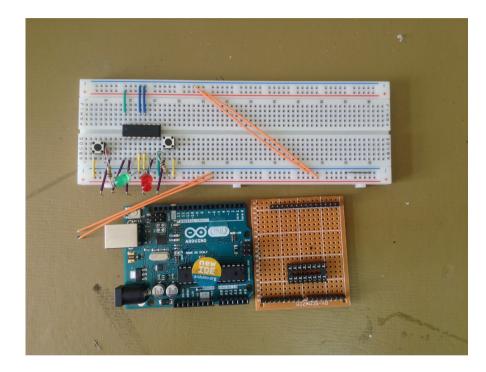


#### LED generator vs Scintillator

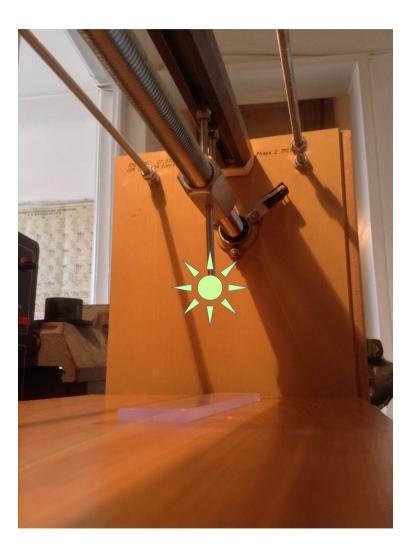
• A(t); Blue – scintillator, red – LED generator



## Beta/light source positioning system



- PC/arduino controlled
- M16x2 range 400mm



# Light tight box

- Black box
- Scint. Tests
- PMT R6427

## Scintilator tests

- Uniformity and light yield along the scint. bar
  - Sr/Y spectra mean num. ph e
- Intrinsic time resolution
  - Cosmics muons
- Choice of preference for light detector
  - Attached on the scint. bar SiPM
  - Fibre connected MAPMT, SiPM, CCD :)