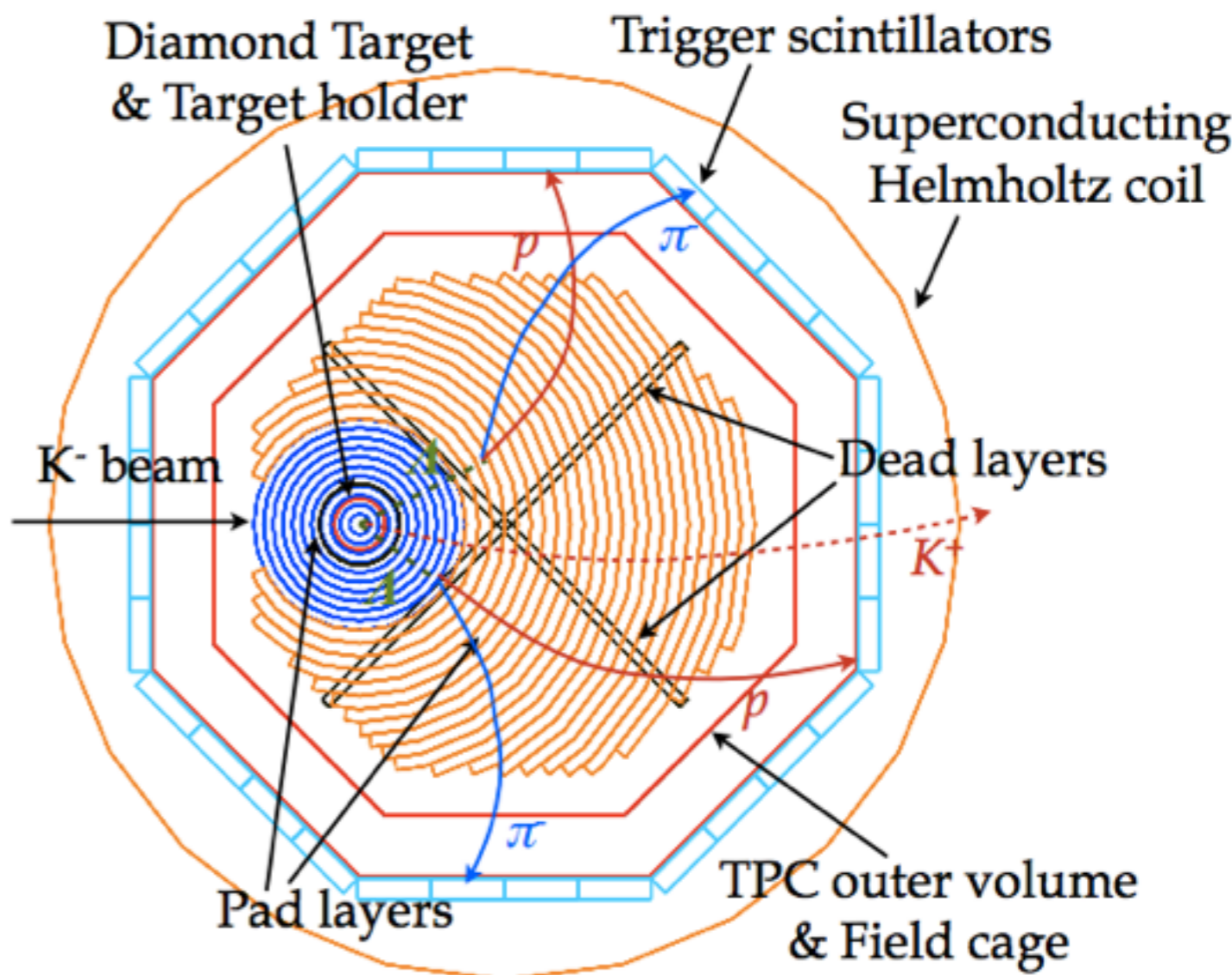
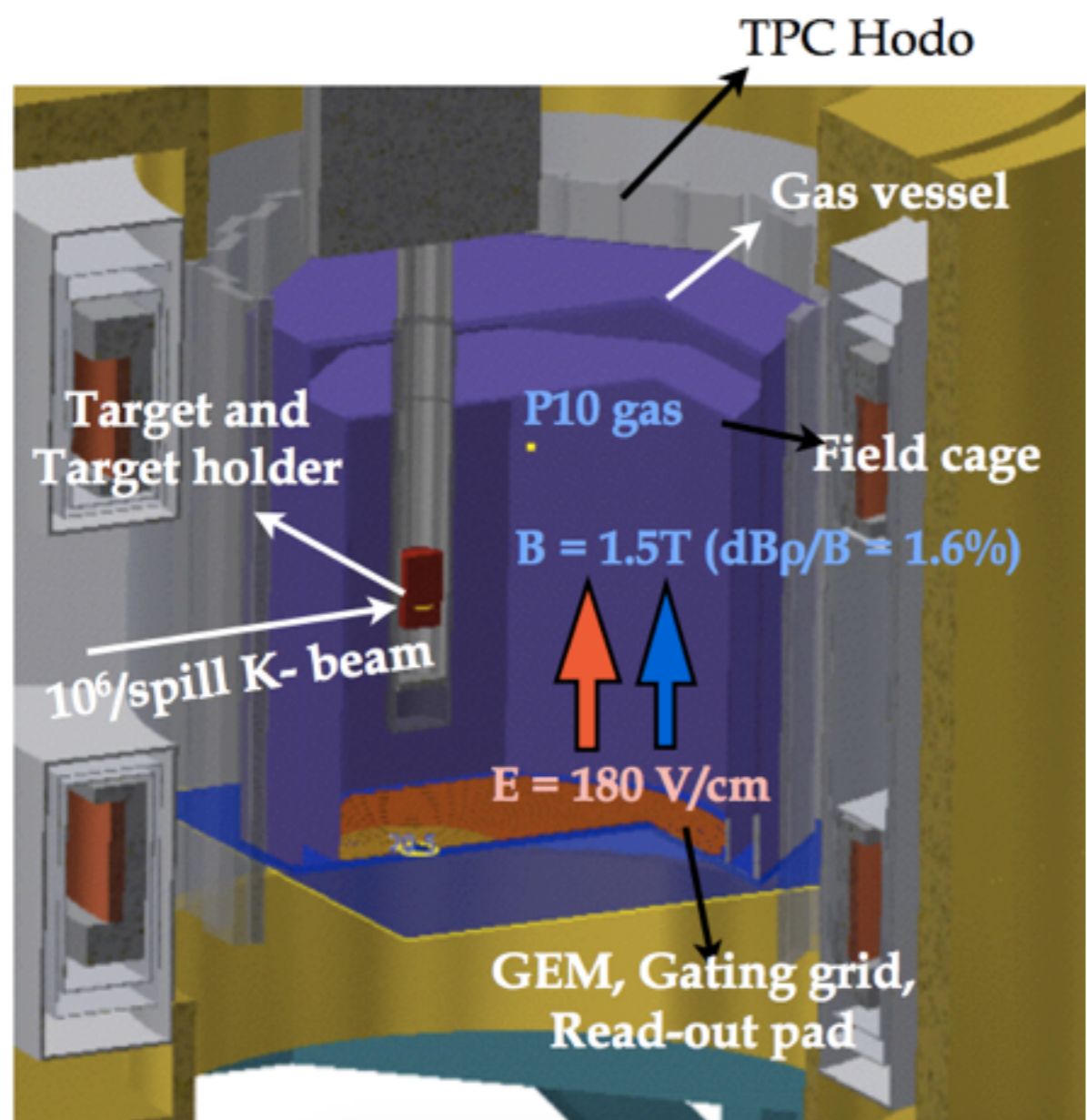


# Development of a MPPC signal amplifier circuit

2016/2/19

Wooseung Jung

# E42 hypTPC



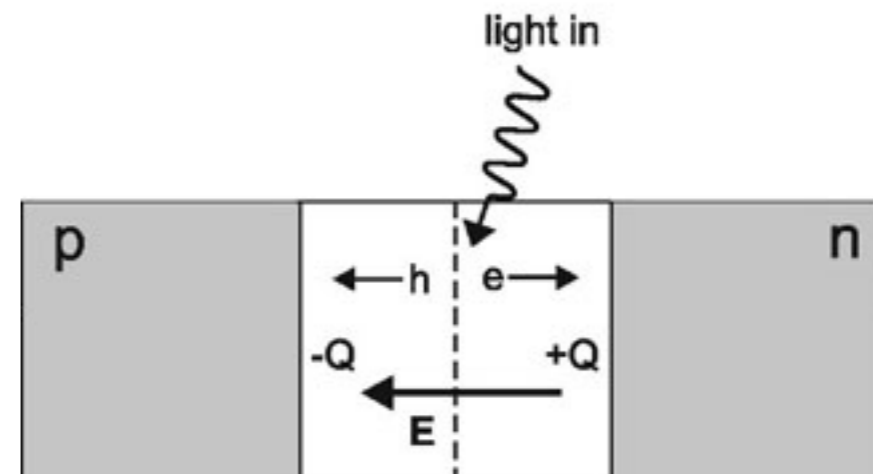
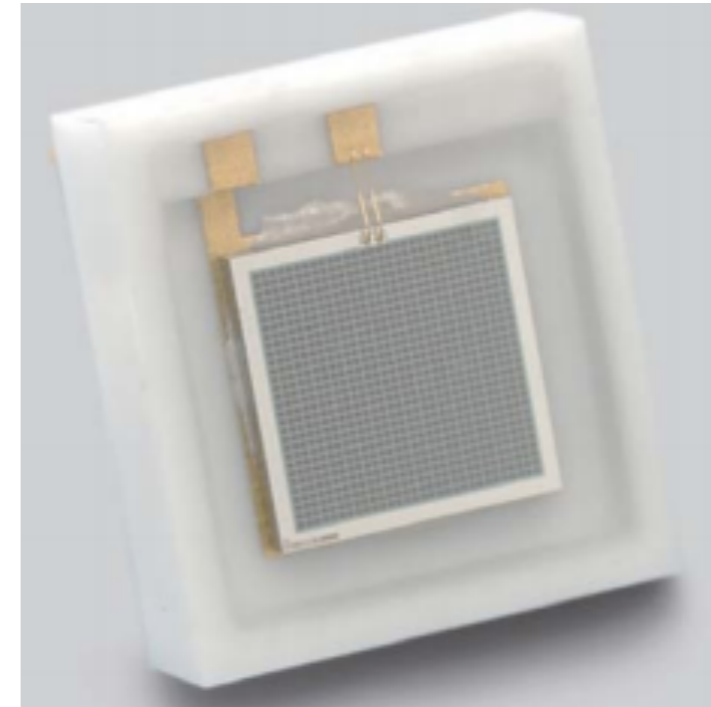
# MPPC?

## MPPC

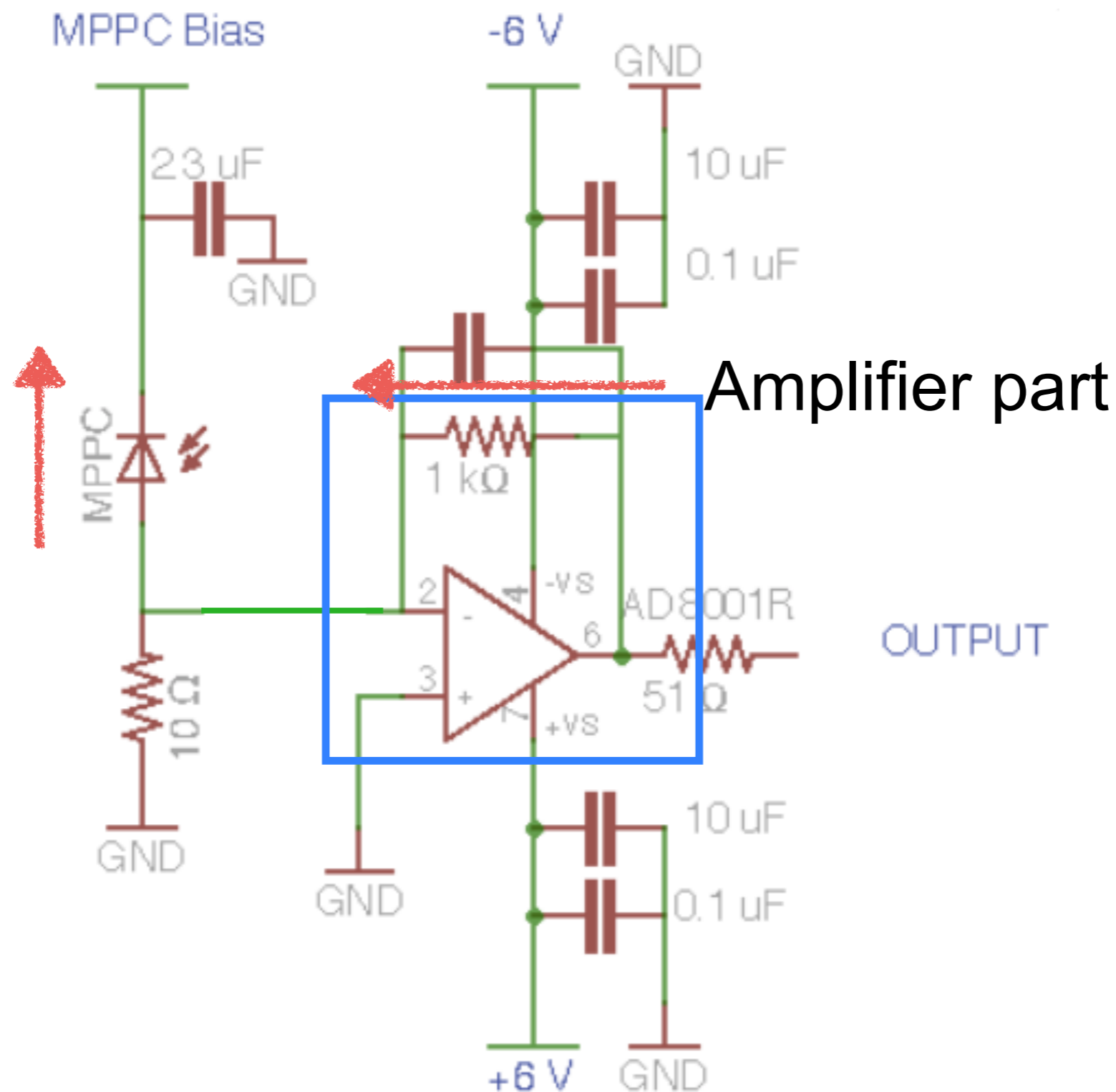
- multi-pixel photon counter
- photodiode pixels

## Photodiode

- photoelectric effect



# Circuit Design





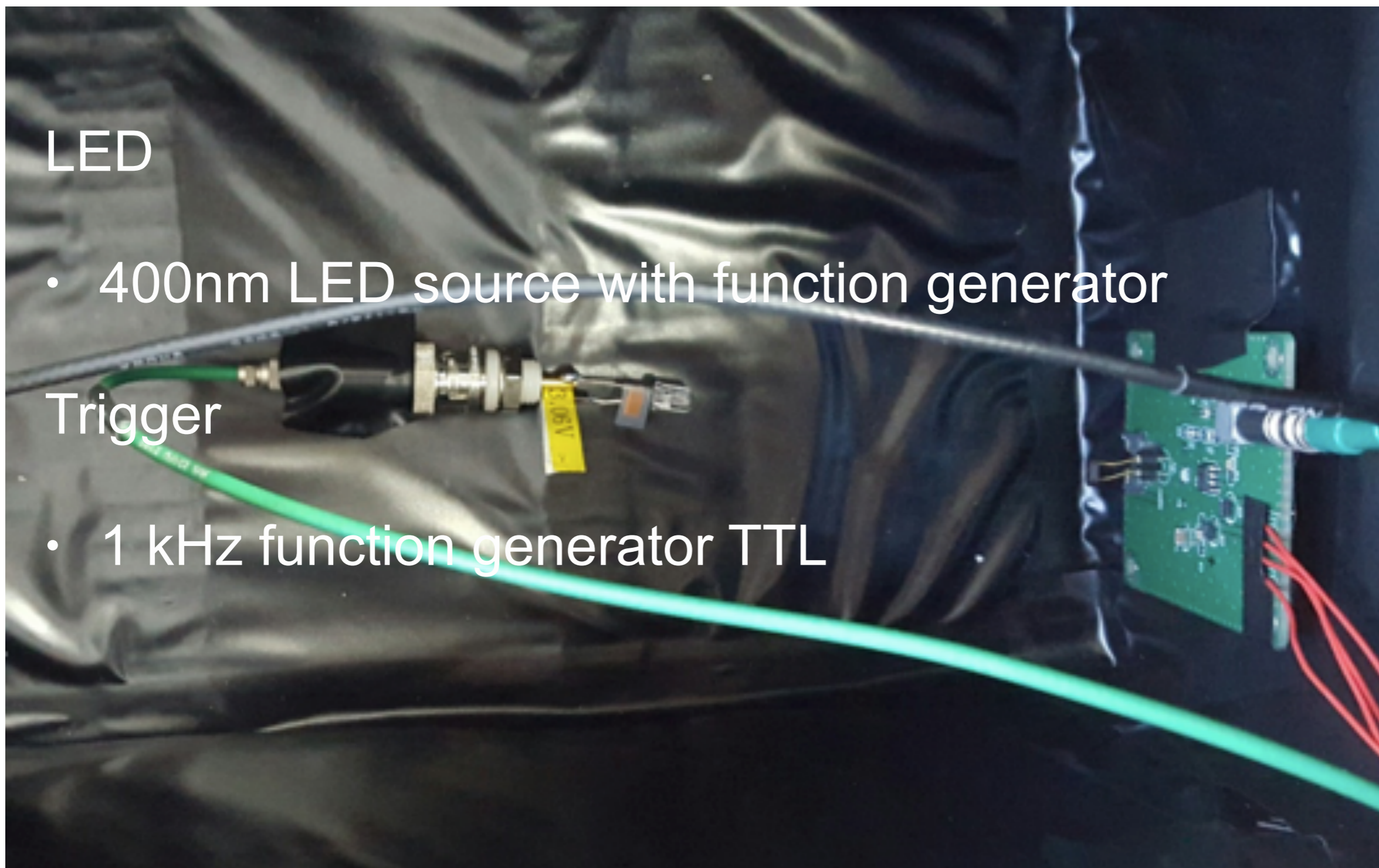
# LED test

LED

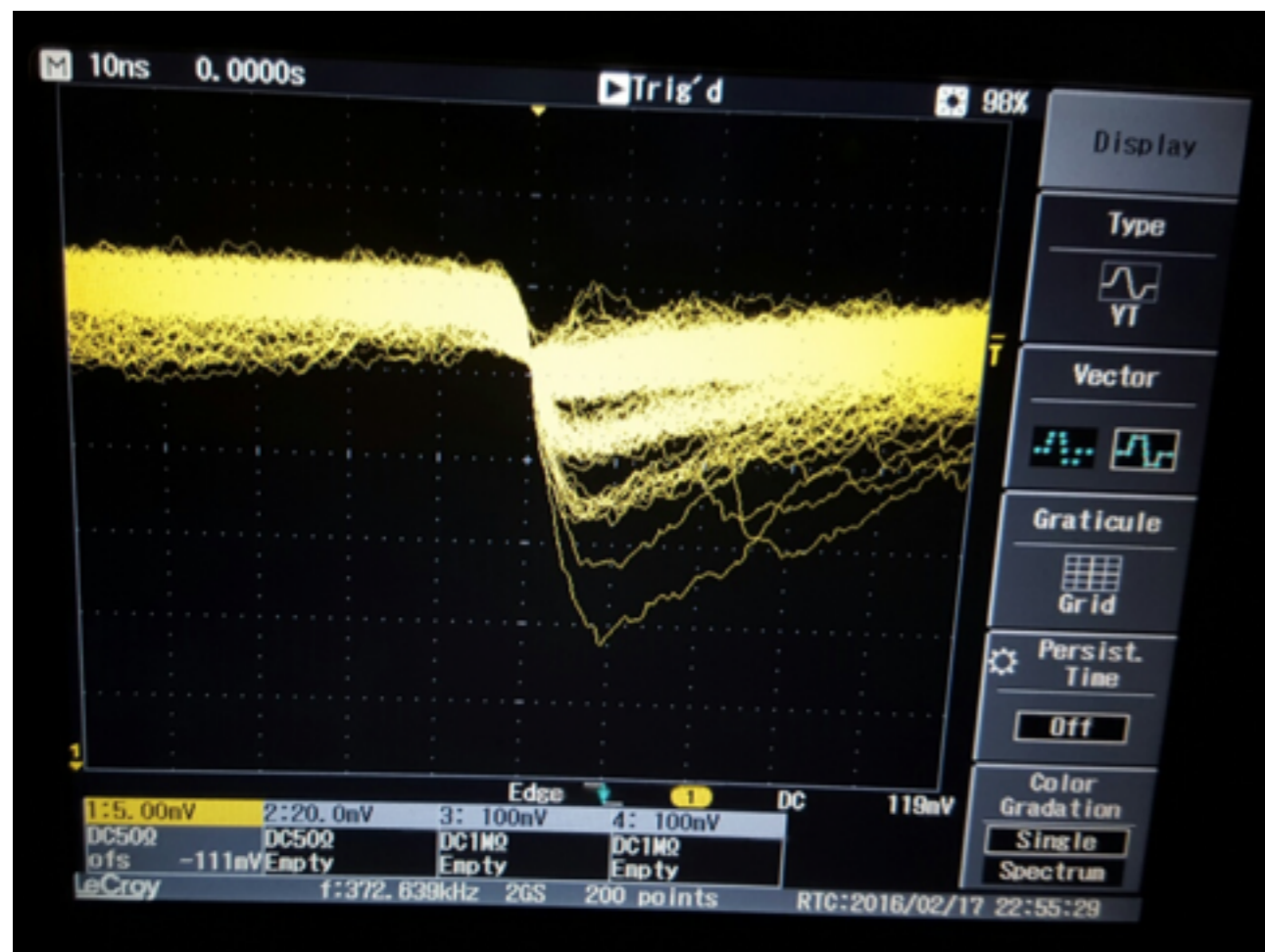
- 400nm LED source with function generator

Trigger

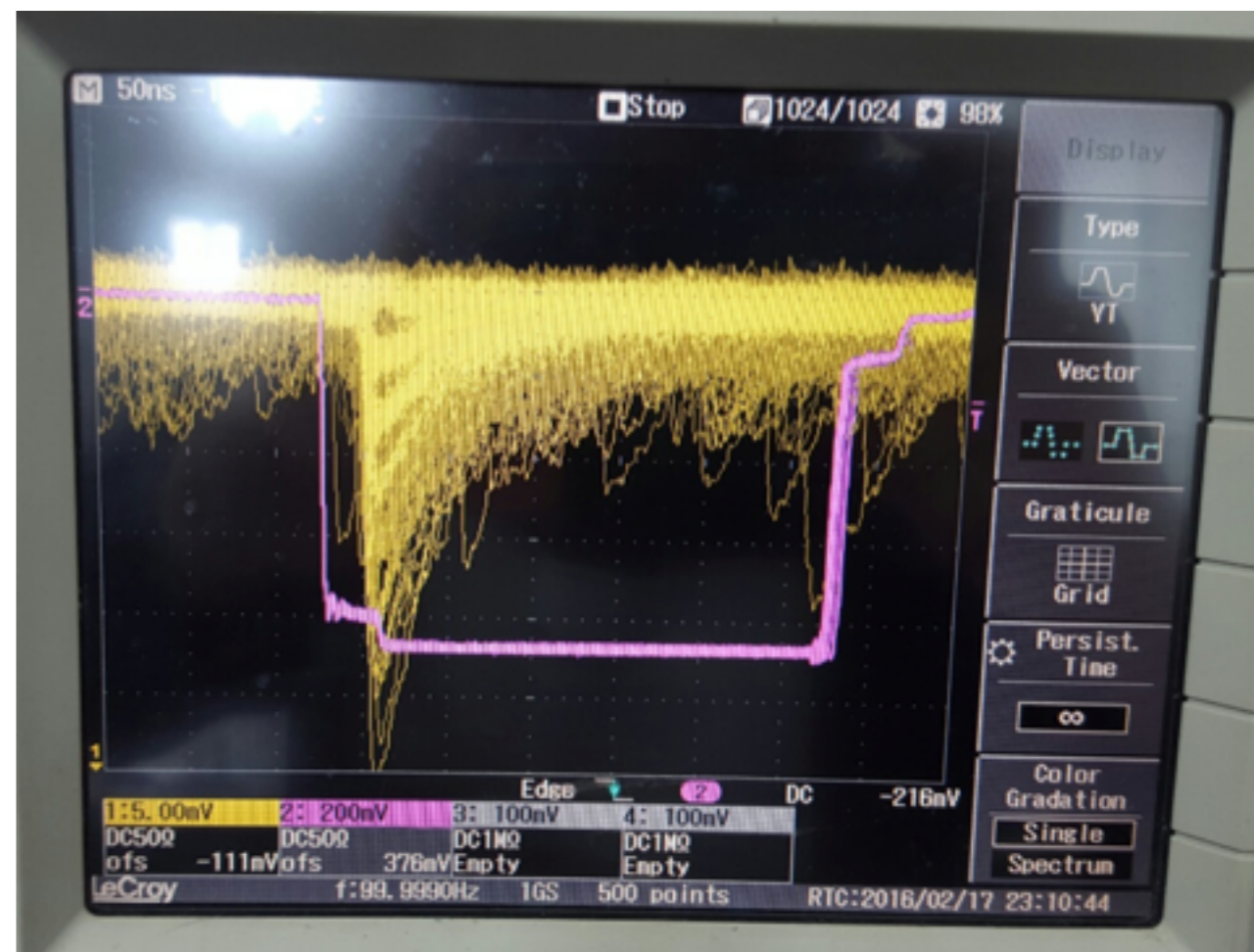
- 1 kHz function generator TTL



# Results



Dark current

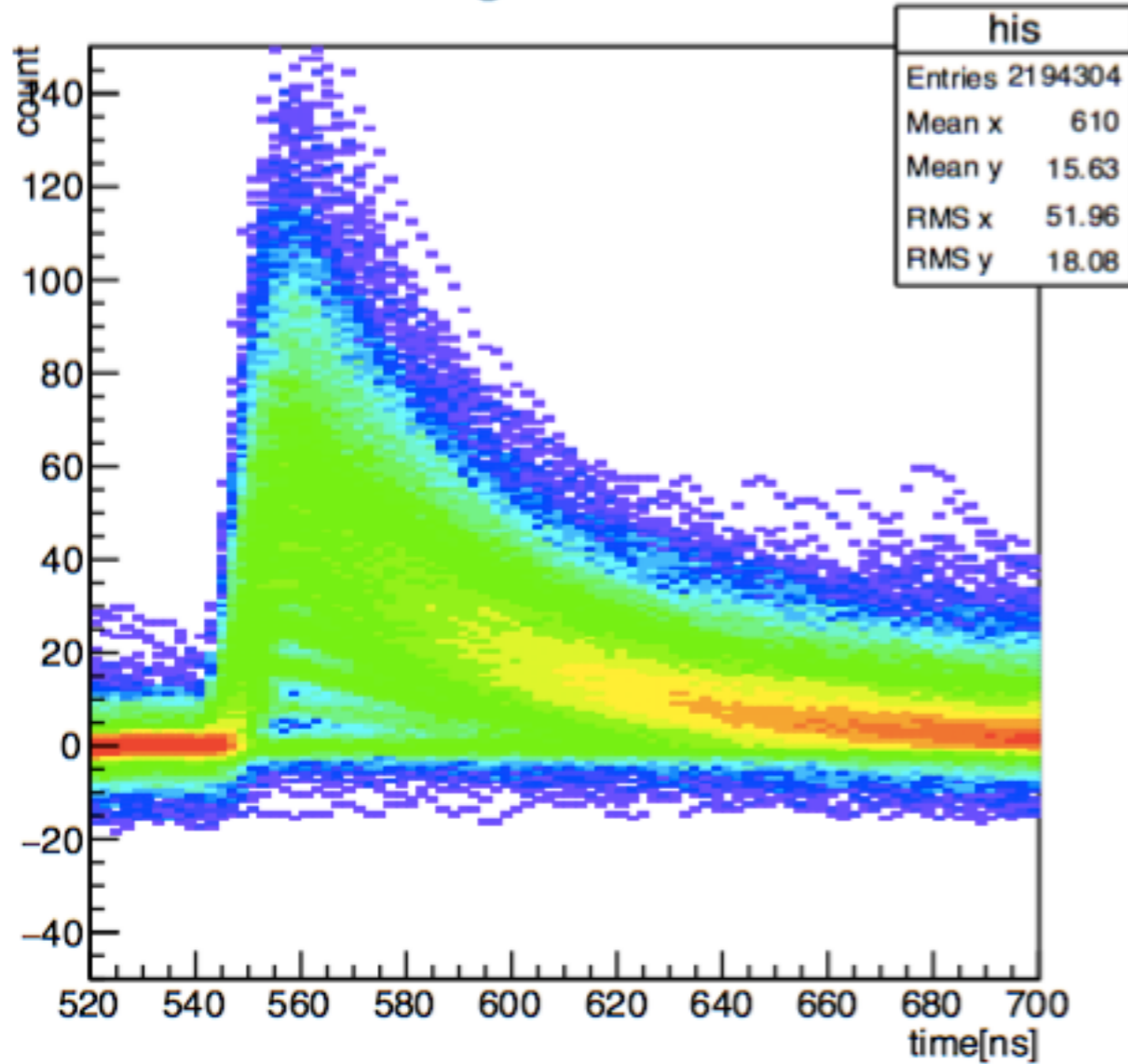


LED signals



# Results

## MPPC Signal Distribution



## MPPC Signal Height

