

# High Energy Analysis at KamLAND and Application to Dark Matter Search

Michinari Sakai

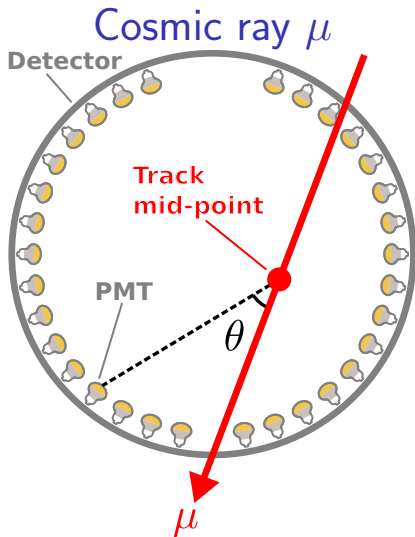
University of Hawaii, Manoa

*michinar@hawaii.edu*

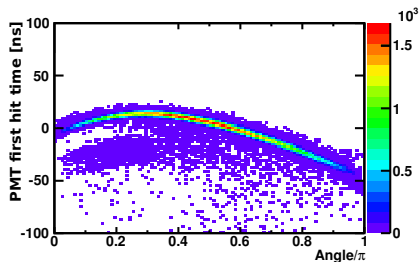
July 16, 2015

# Overview

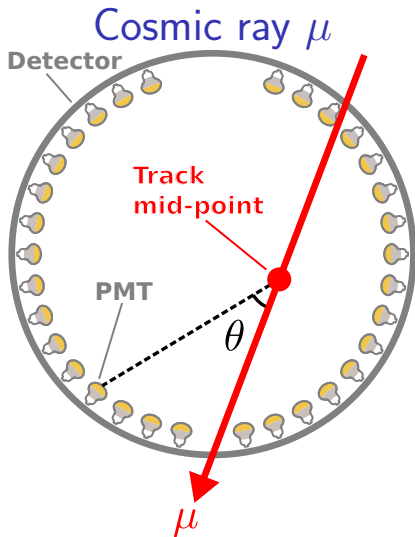
# Many photons at high energy in scintillator



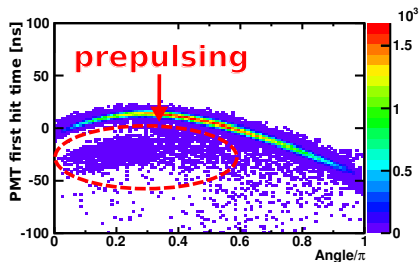
204  $\mu$ 's overlaid



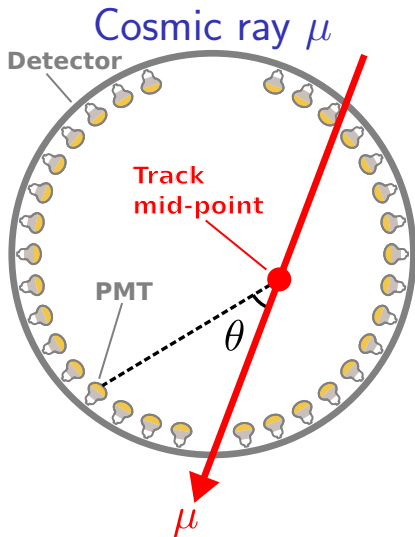
# Many photons at high energy in scintillator



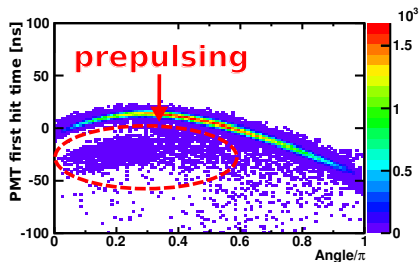
204  $\mu$ 's overlaid



# Many photons at high energy in scintillator

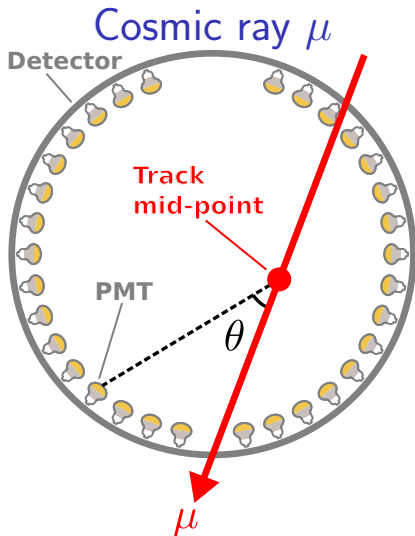


## 204 $\mu$ 's overlaid

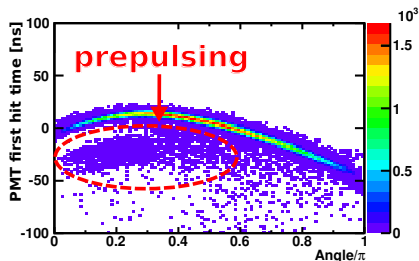


- Prepulsing is few % effect.

# Many photons at high energy in scintillator



## 204 $\mu$ 's overlaid



- ▶ Prepulsing is few % effect.
- ▶ fitters must be robust against these statistical outliers

# Validate against real muons