

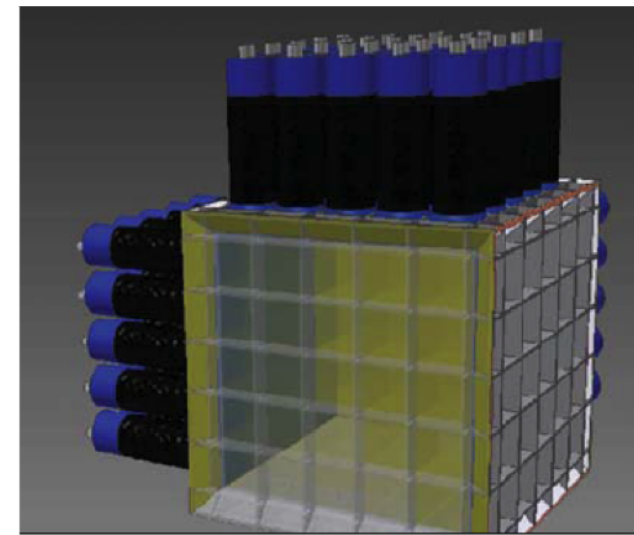
# NuLat

## Hawaii's involvement

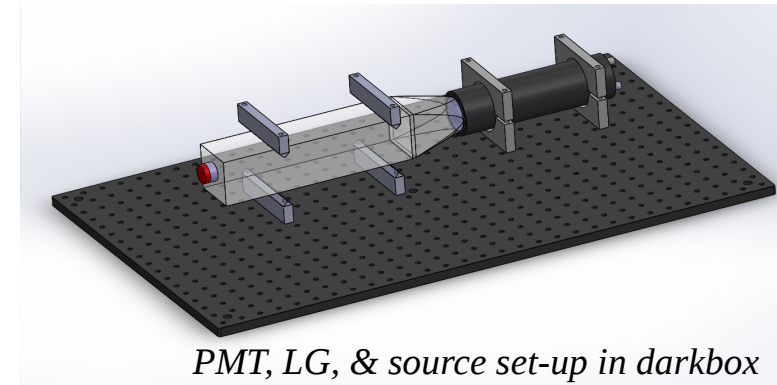
- Characterization of light guides (LG)
- Fabrication
- PMT gain calibration (75 PMTs to test)

## Testing in progress

- Measurements with  $^{210}\text{Po}$  and an LED as a source
- Charge distribution at different positions on LG
- Overall good background rejection

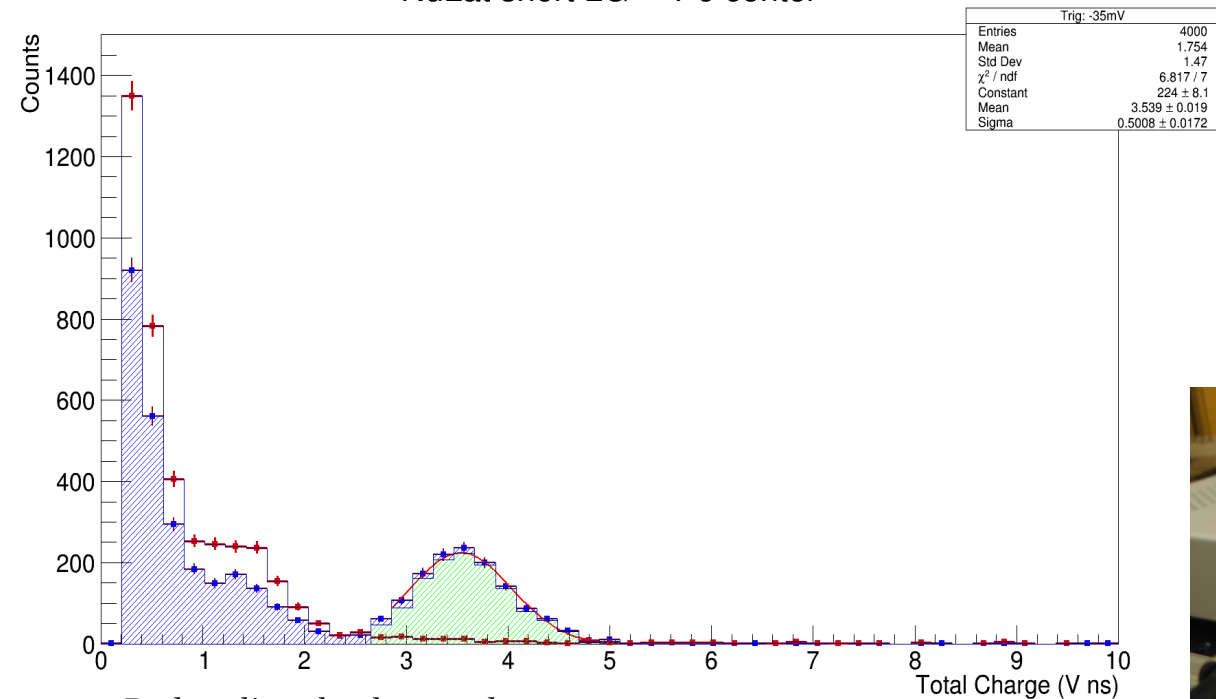


*NuLat detector design*

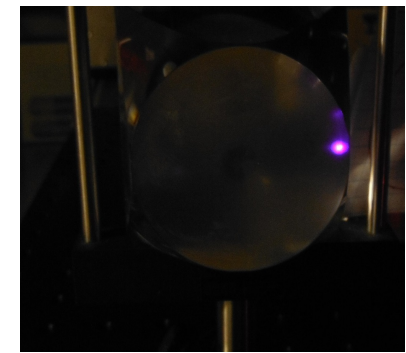
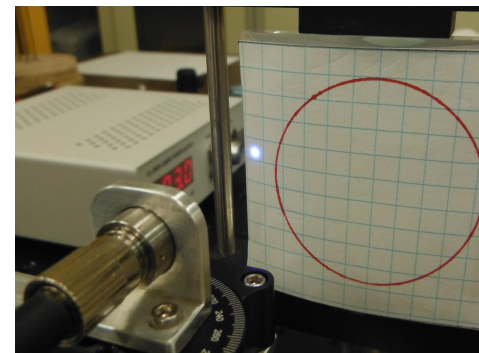


*PMT, LG, & source set-up in darkbox*

NuLat short LG  $^{210}\text{Po}$  center



- Red outline: background
- Blue filled: distribution of LG &  $^{210}\text{Po}$  source
- Green: weighted subtraction of backgrounds for same counting duration



- LED at normal incidence on edge of LG square-end, exiting circular-end via TIR
- Measurement set-up conceived by Marc Rosen