

# LAPPD Single Point Characterization



PRESENTED BY

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## 2 | What is LAPPD?

### Large Area Picosecond Photodetector

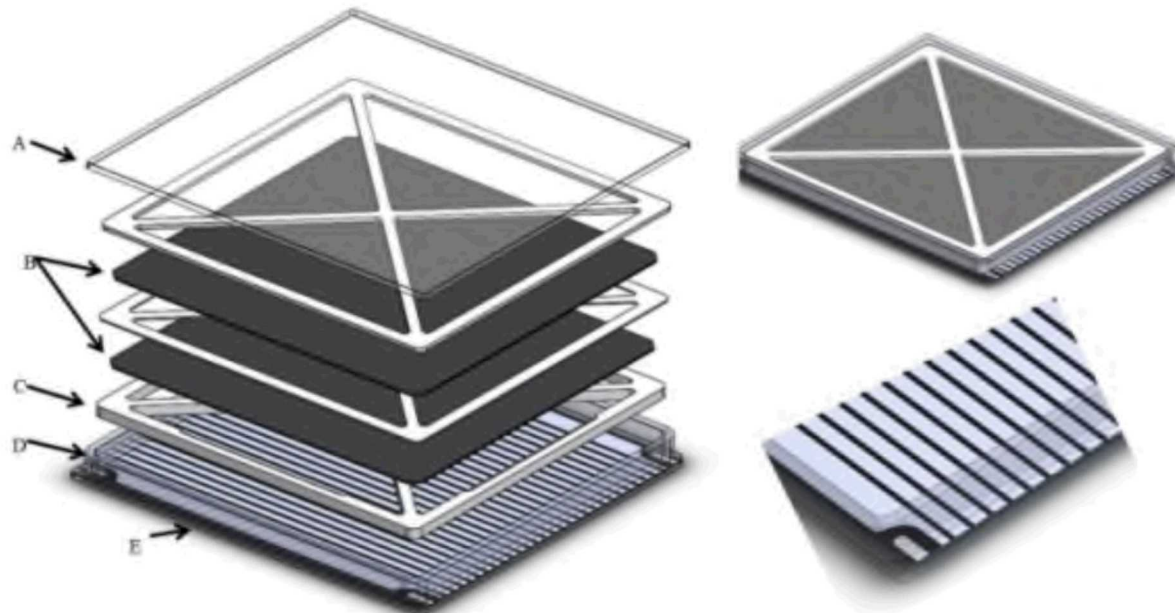
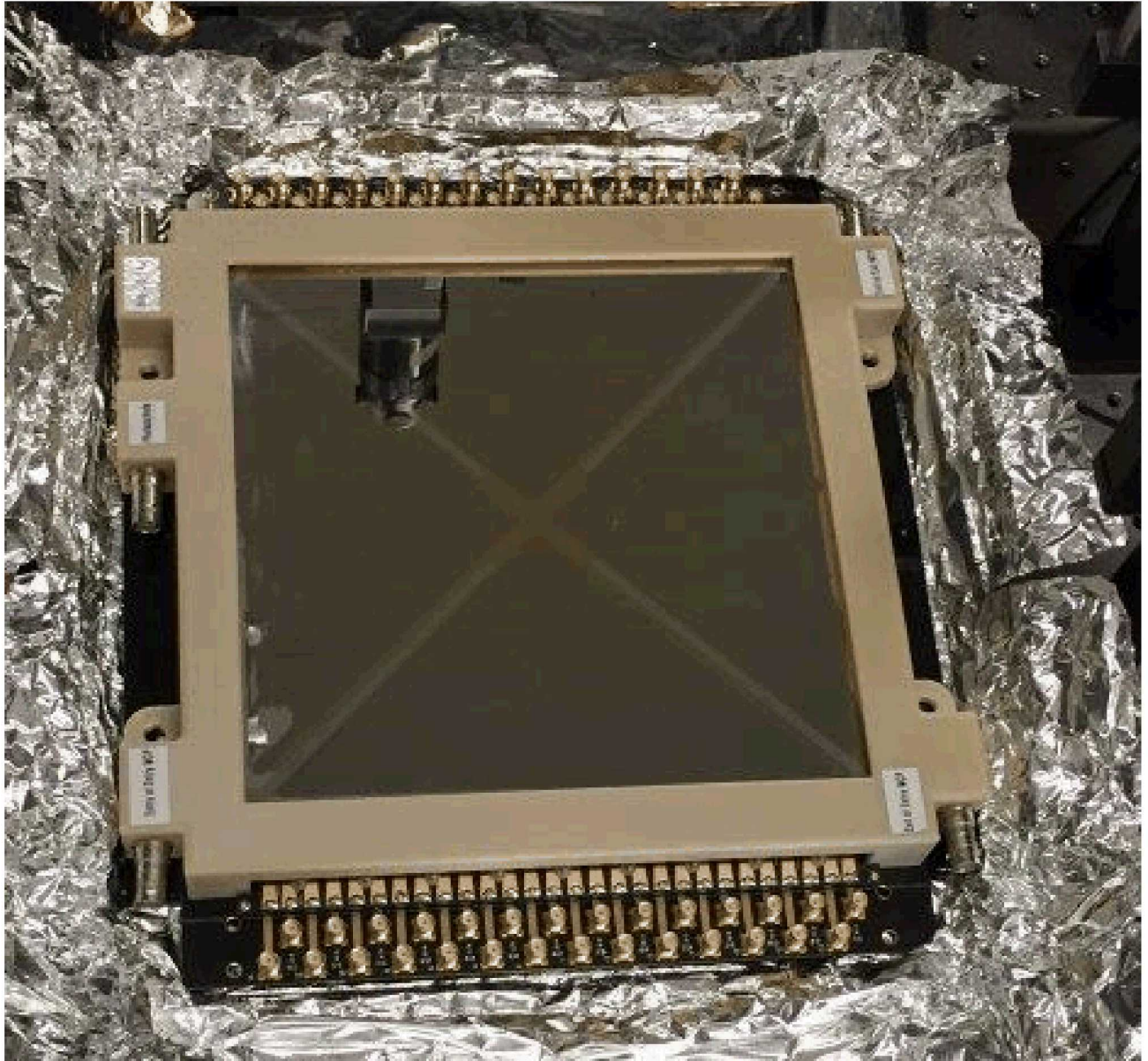


Figure 1 – Schematic design of the LAPPD: Left, exploded view: A) Fused silica window with PC on inside surface, B) Chevron pair of ALD-GCA-MCPs, C) three spacers, D) Anode showing 28 strip lines passing under sidewalls. Top right: consolidated view, Bottom right: expanded view of strip line anodes passing under sidewalls.

<http://www.incomusa.com/wp-content/uploads/2018/06/2018-06-27-Large-Area-Picosecond-Photodetector-LAPPD-Pilot-Production-and-Development-Status.pdf>

3 | LAPPD at Sandia?

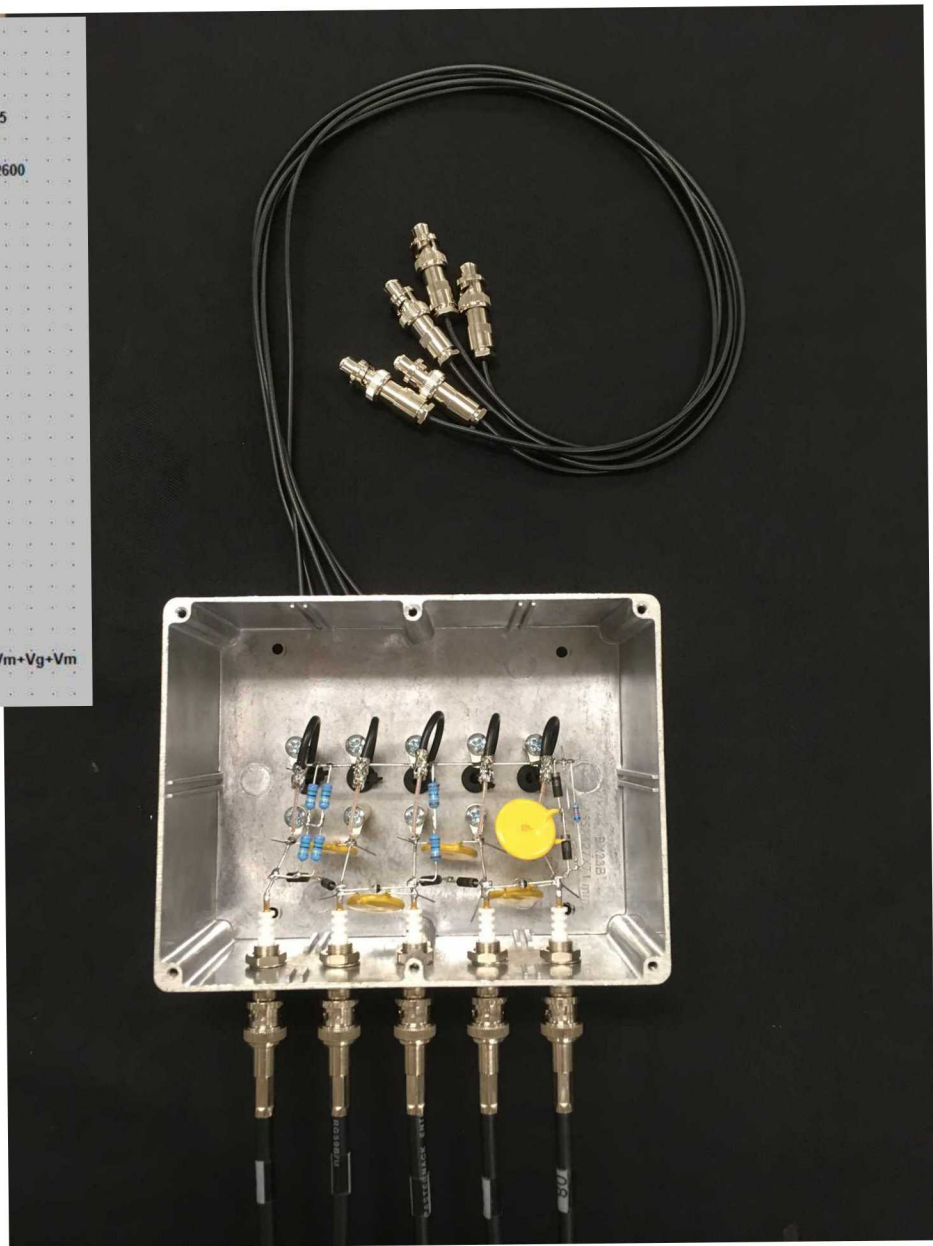
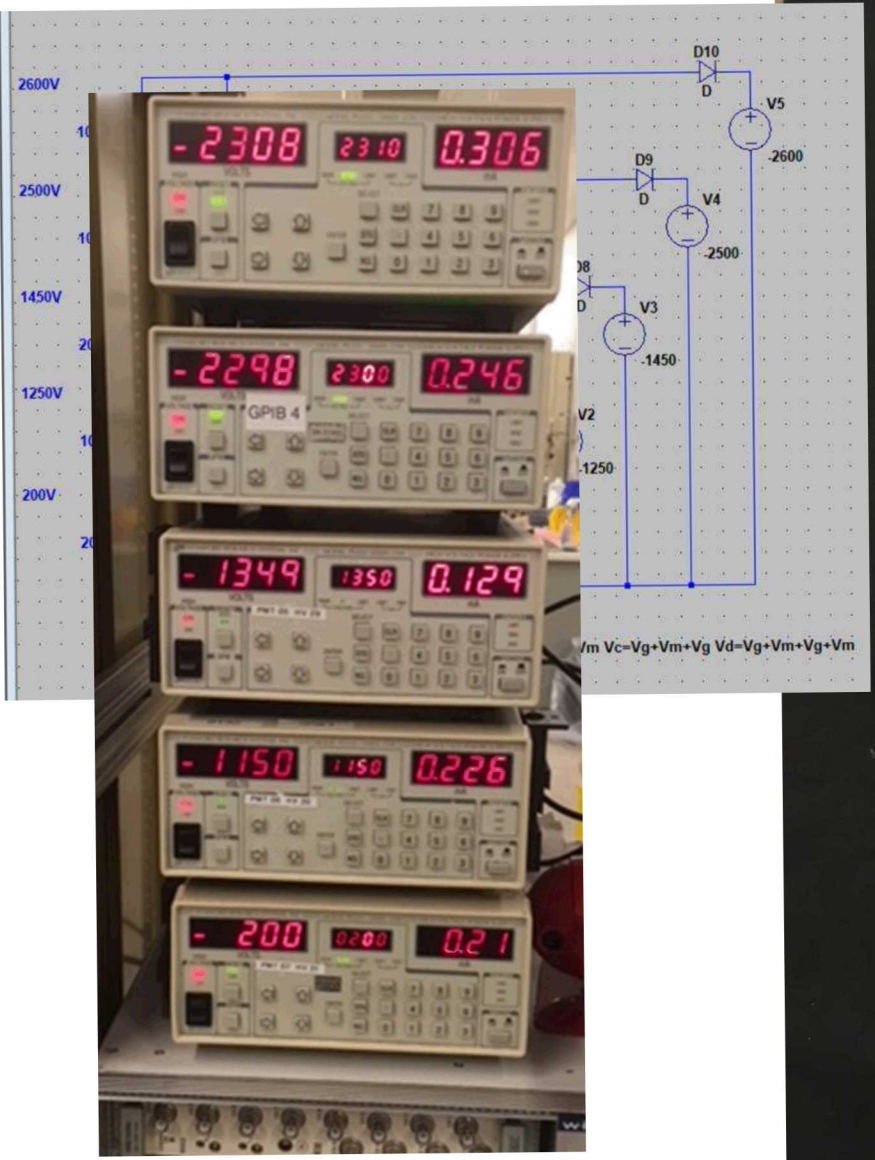
Received Incom  
LAPPD #22 Feb 2018



# 4 Sandia Bias Solution



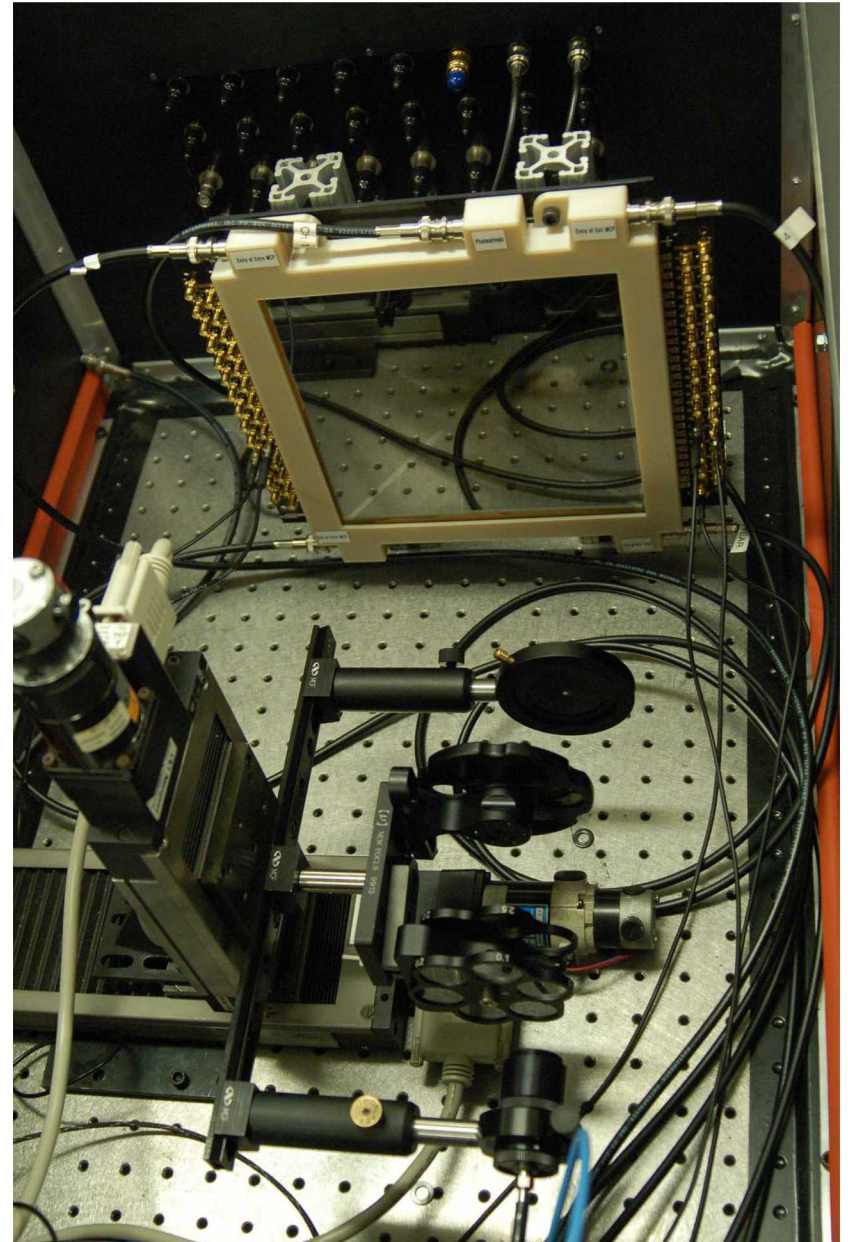
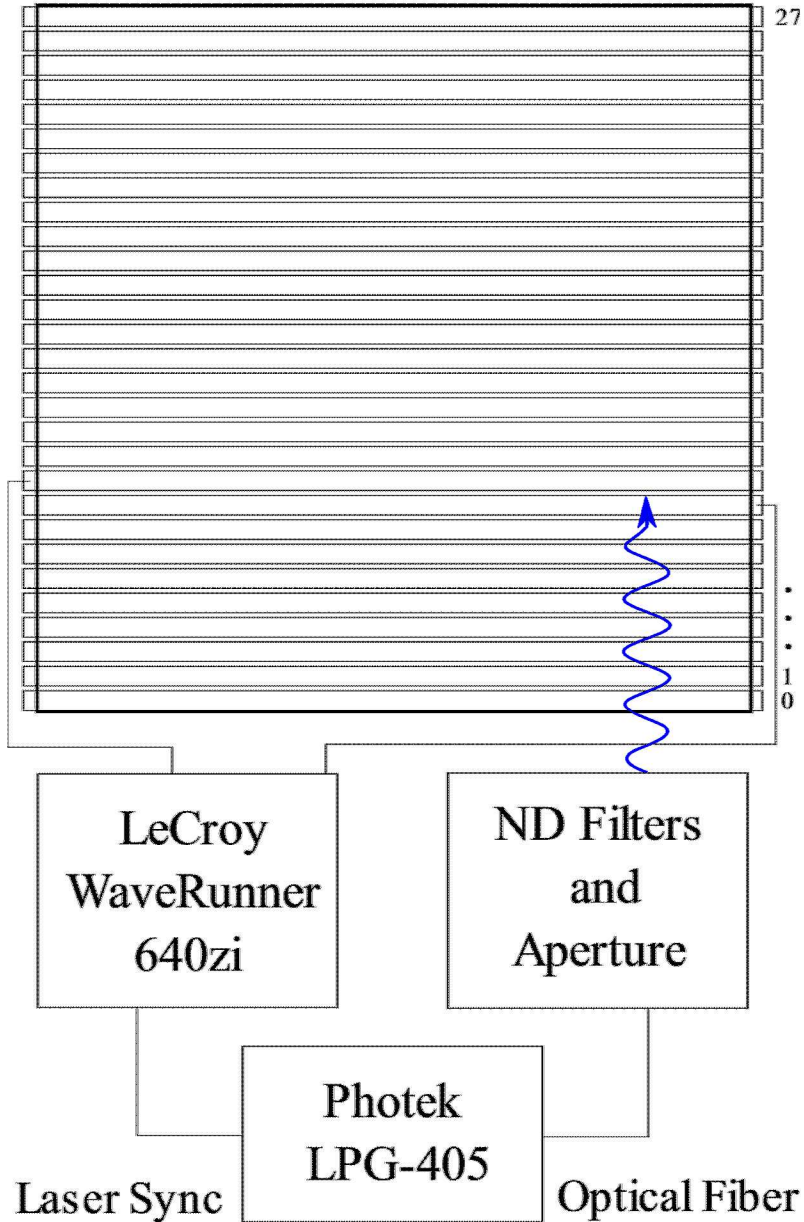
# 5 Sandia Bias Solution



# LAPPD Mounted with moveable light source

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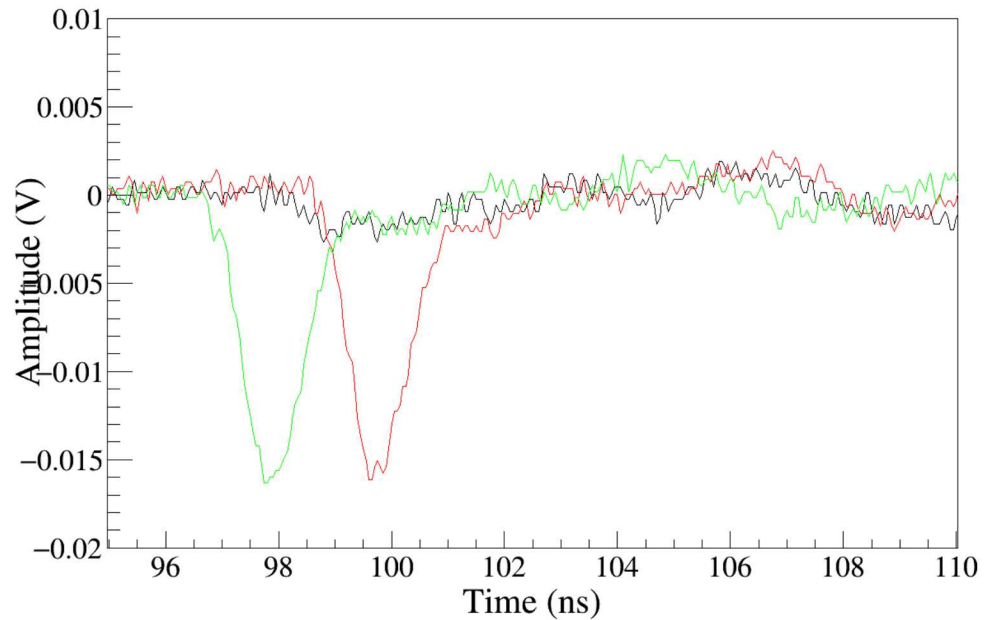
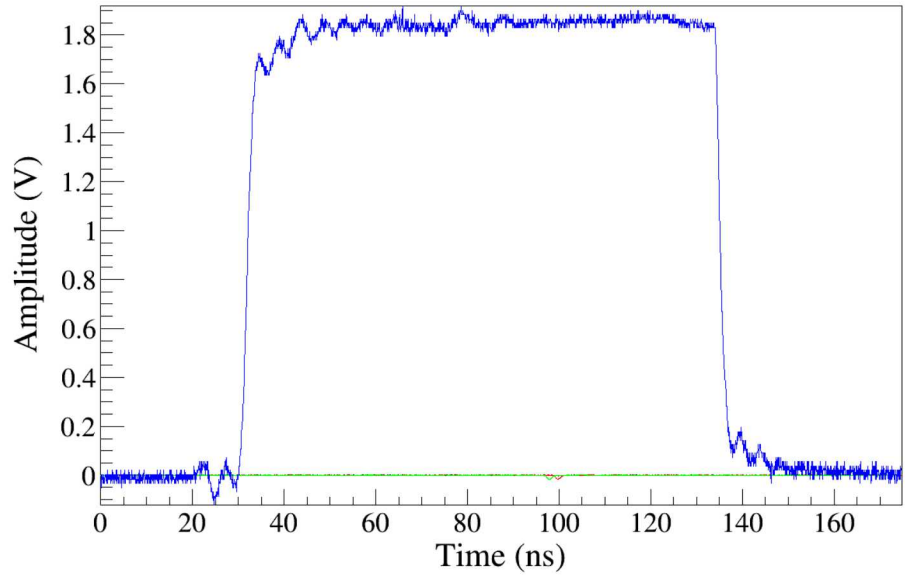
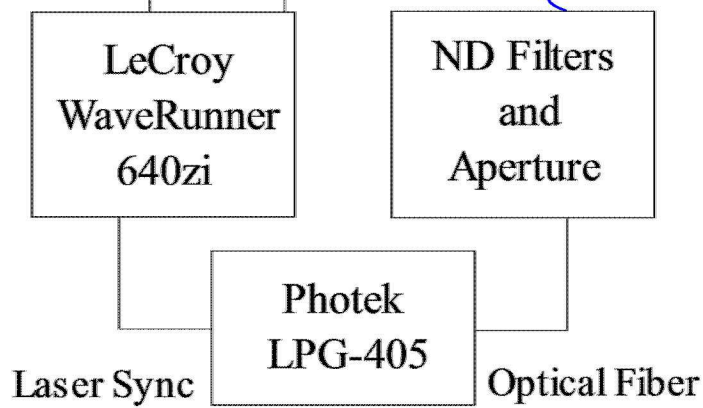
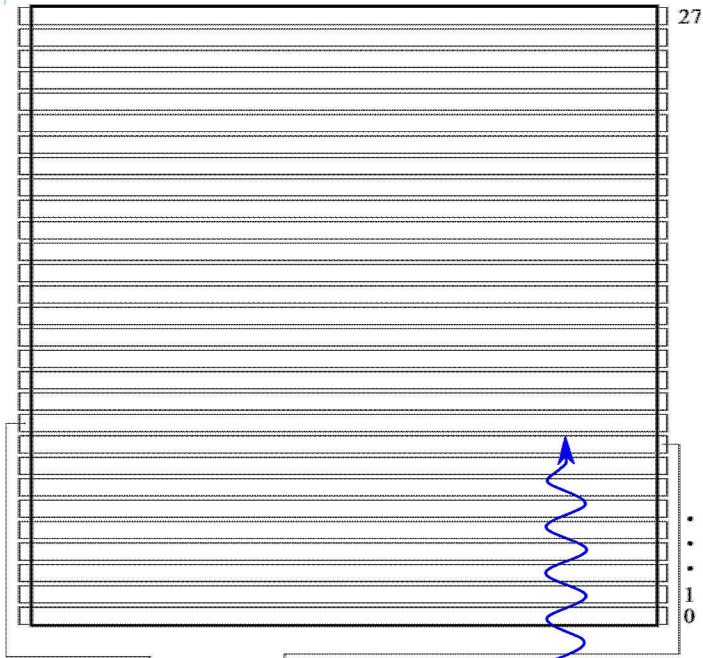
## LAPPD Tile #22



# Waveforms

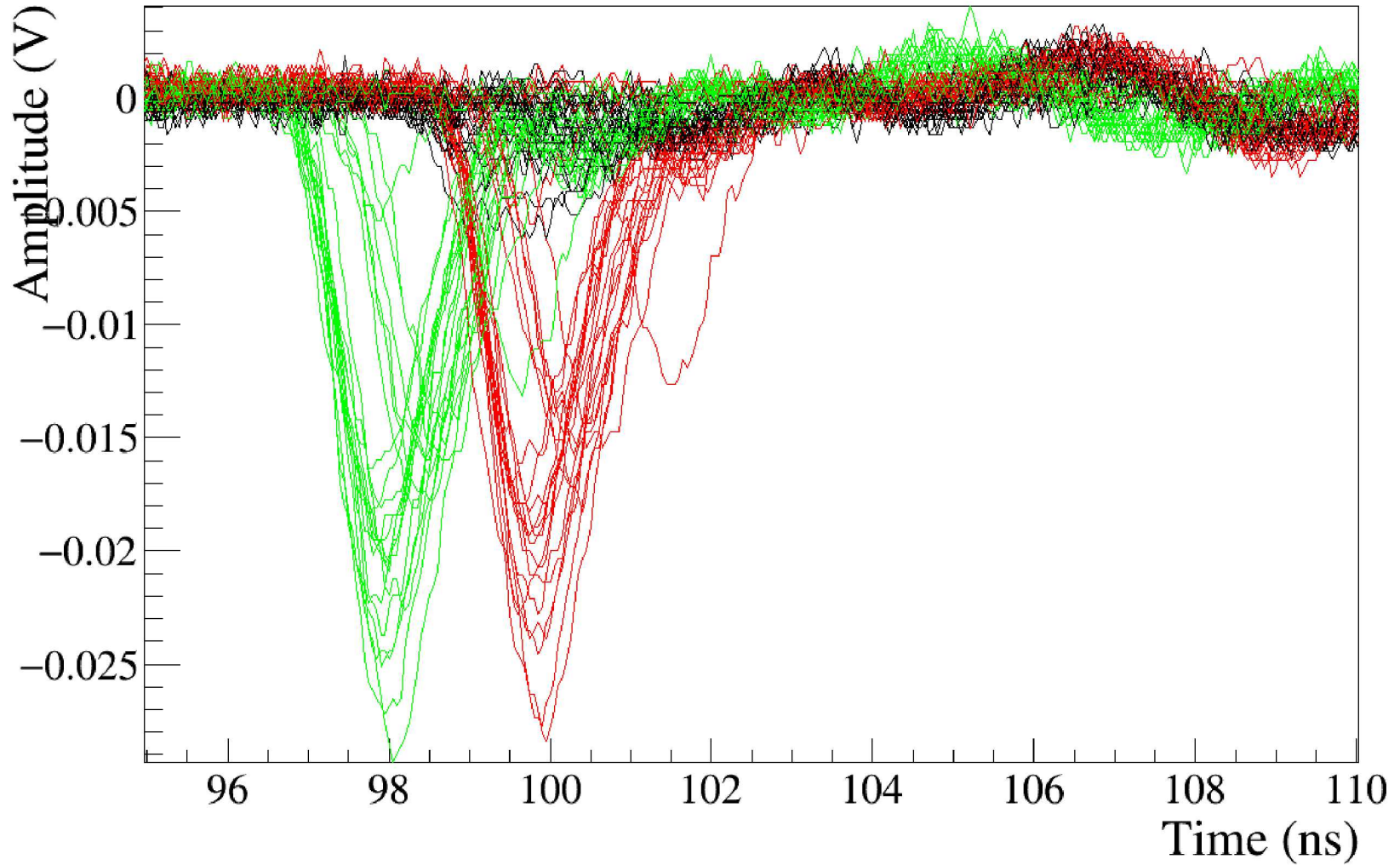
## LAPPD Tile #22

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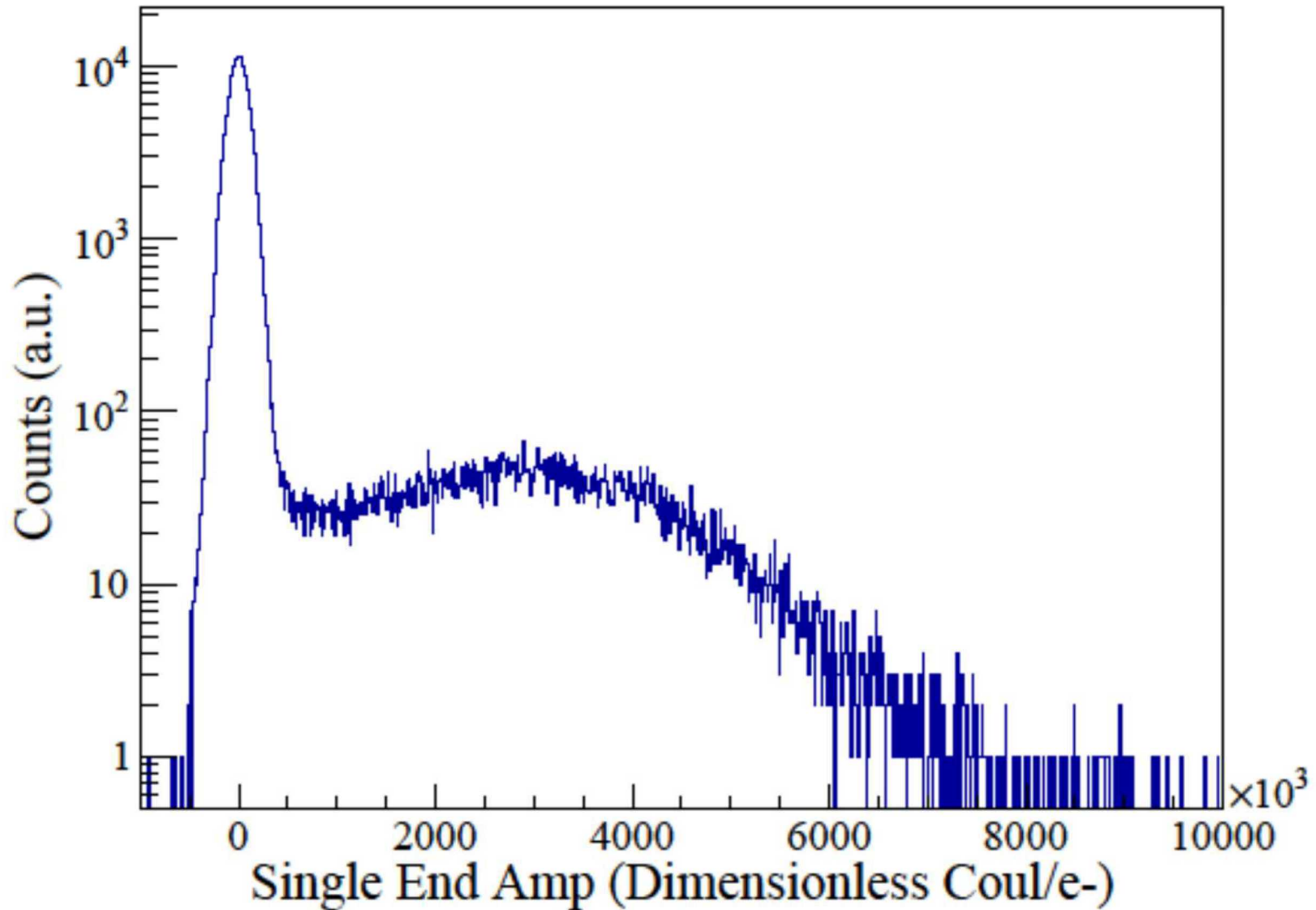
# Single Photons

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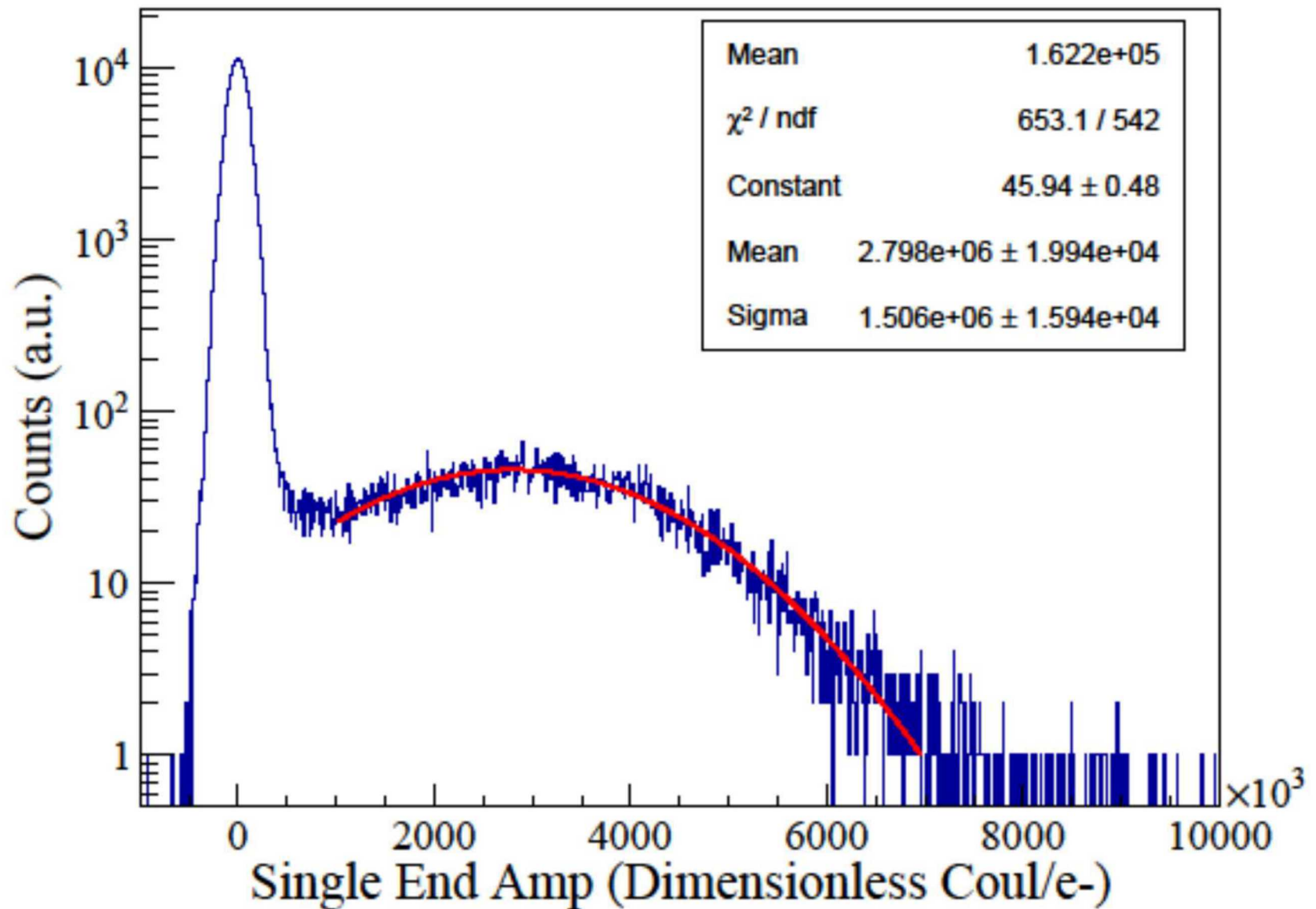
# Single Photon Amplitude

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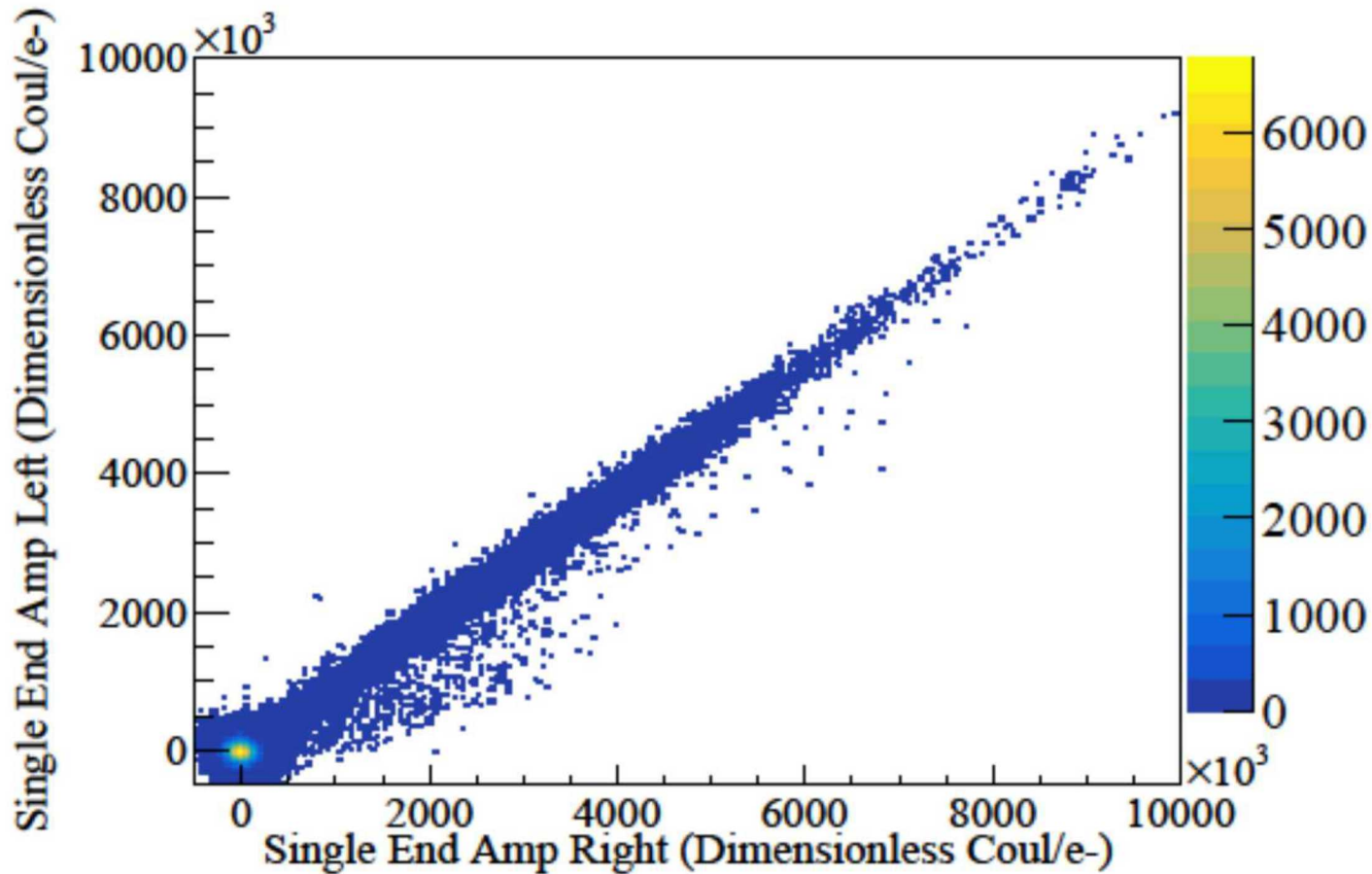
# Single Photon Amplitude With Fit

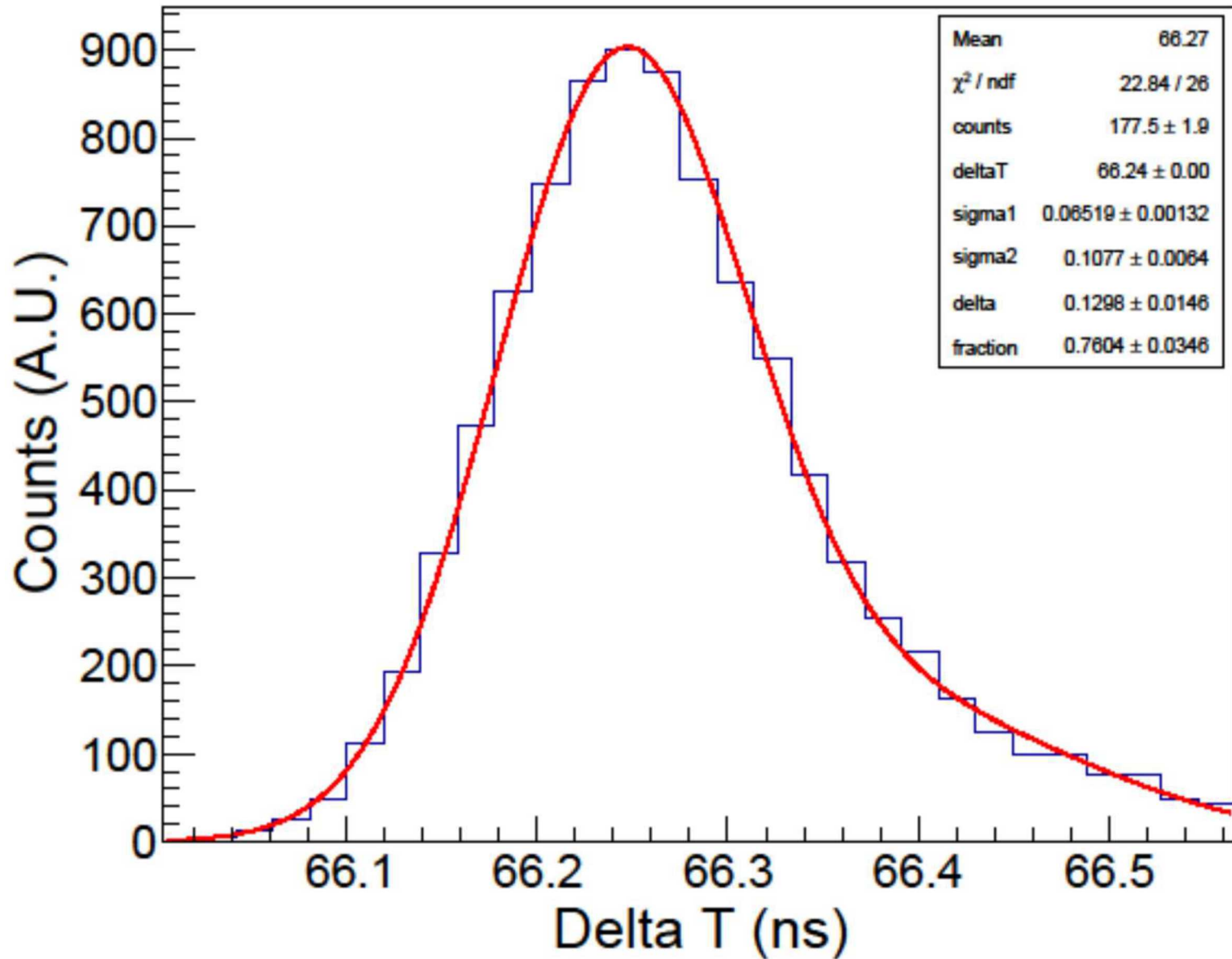
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# Single Photon Strip End Amplitude Correlation

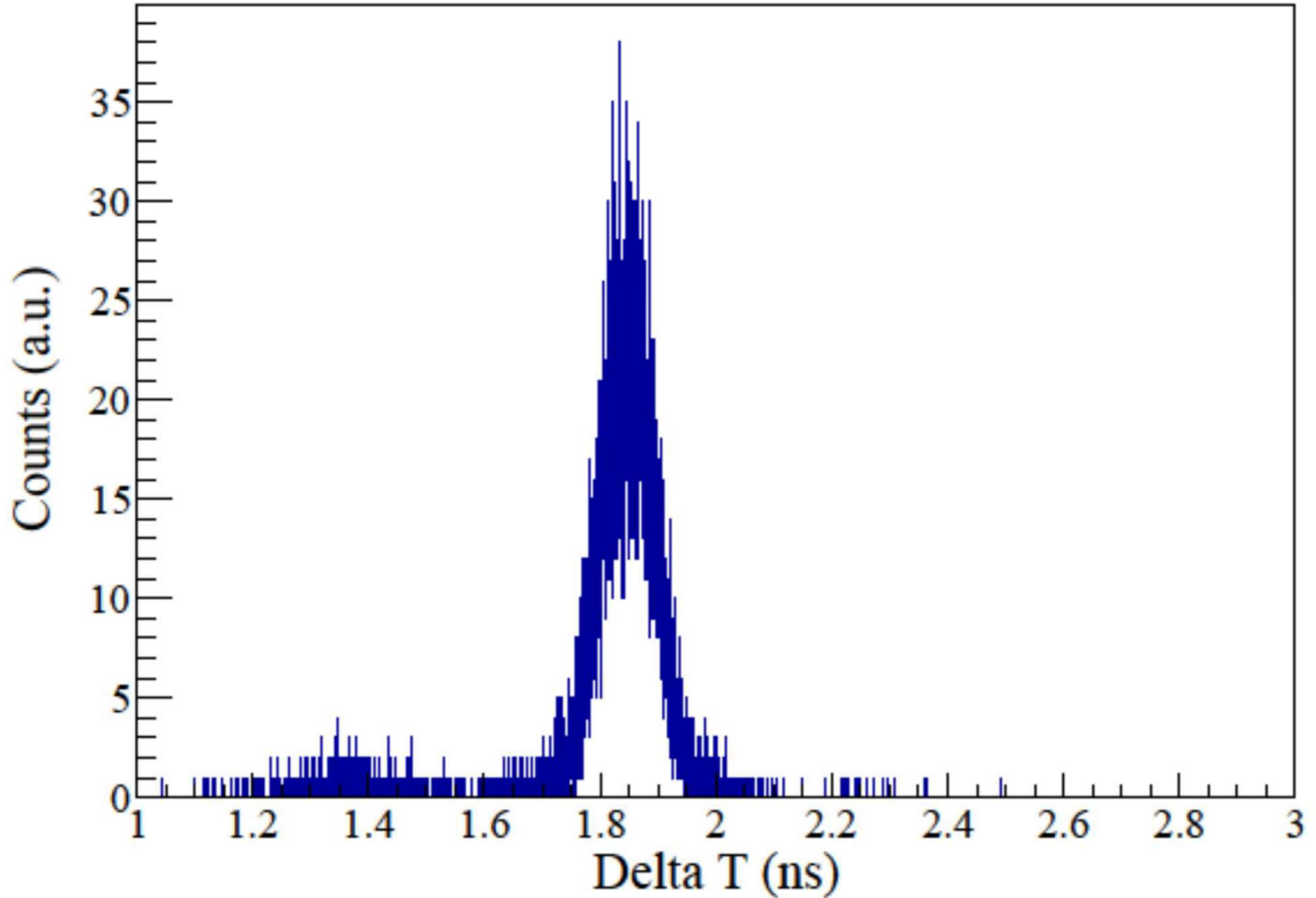
11





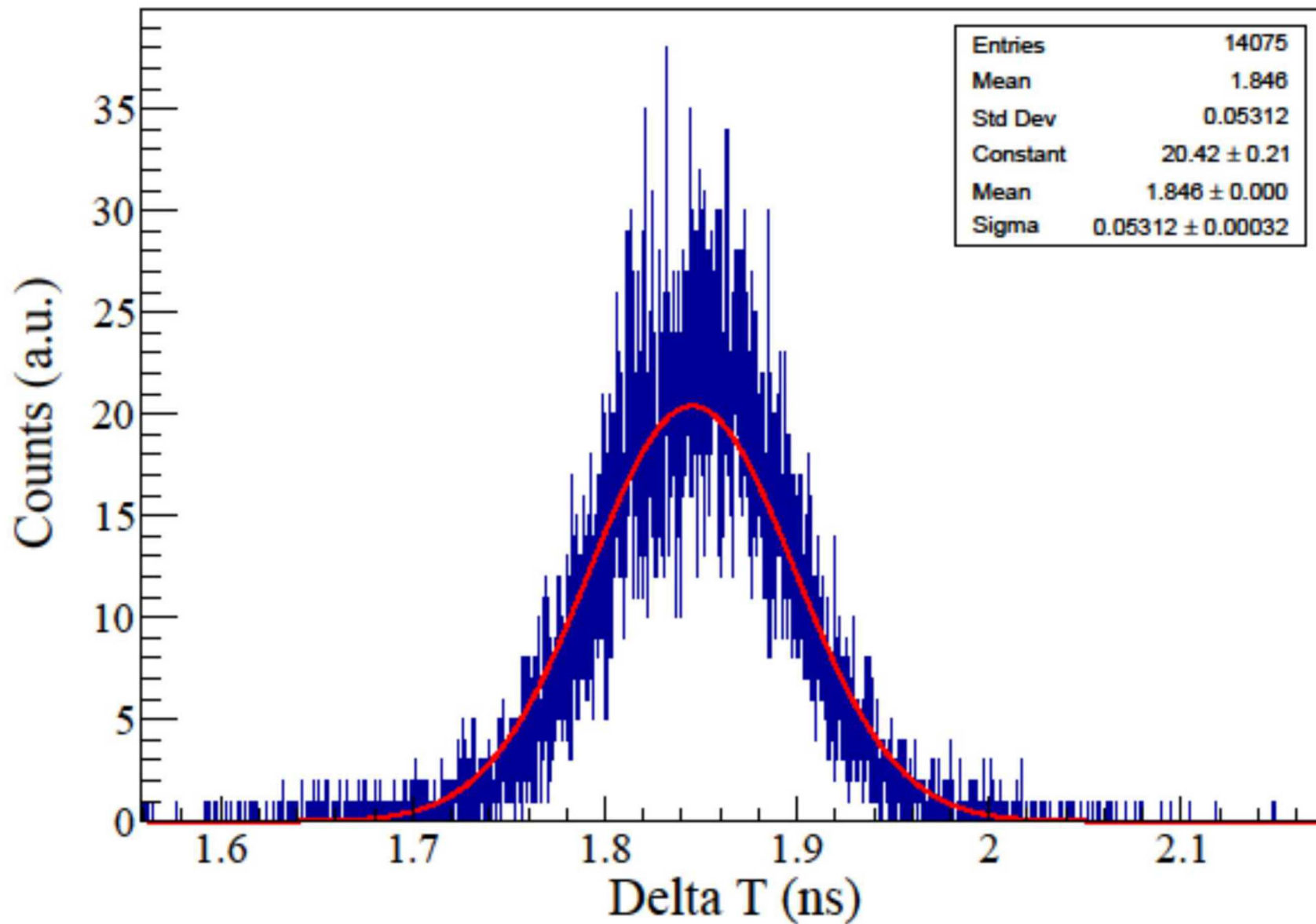
# Single Photon Strip End Time Differences

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# Single Photon Strip End Time Differences

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# Amplitude Time Correlations

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