Neutron Detector for LAMPS-H

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Lab. Meeting
Korea University
Department of Physics

Waveform Data Analysis[1]

Waveform by Position

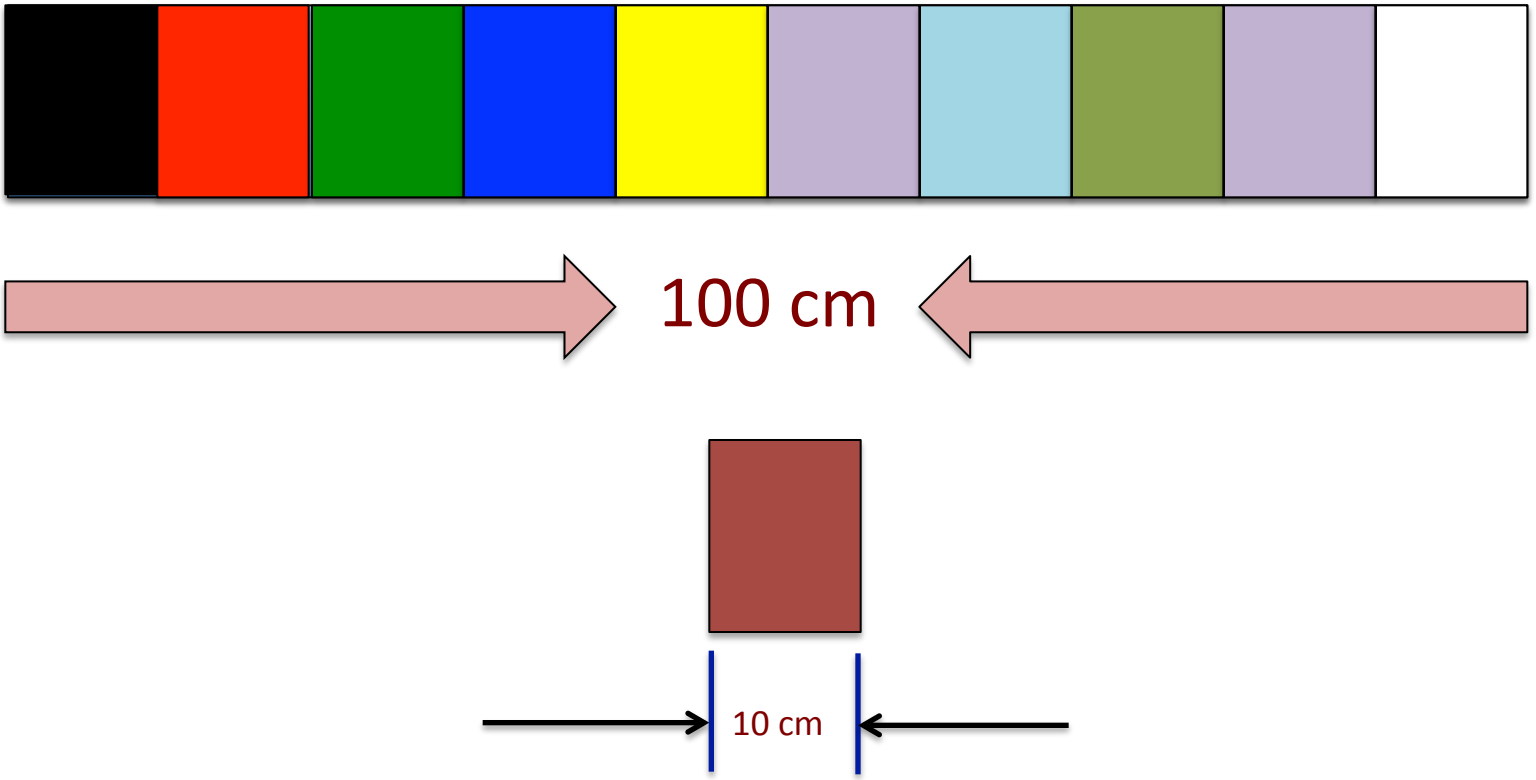


Fig.1: 1 m – long scintillator bar divided into 10 equally spaced position pieces

Waveform Data Analysis^2

Waveform by Position : Module 0

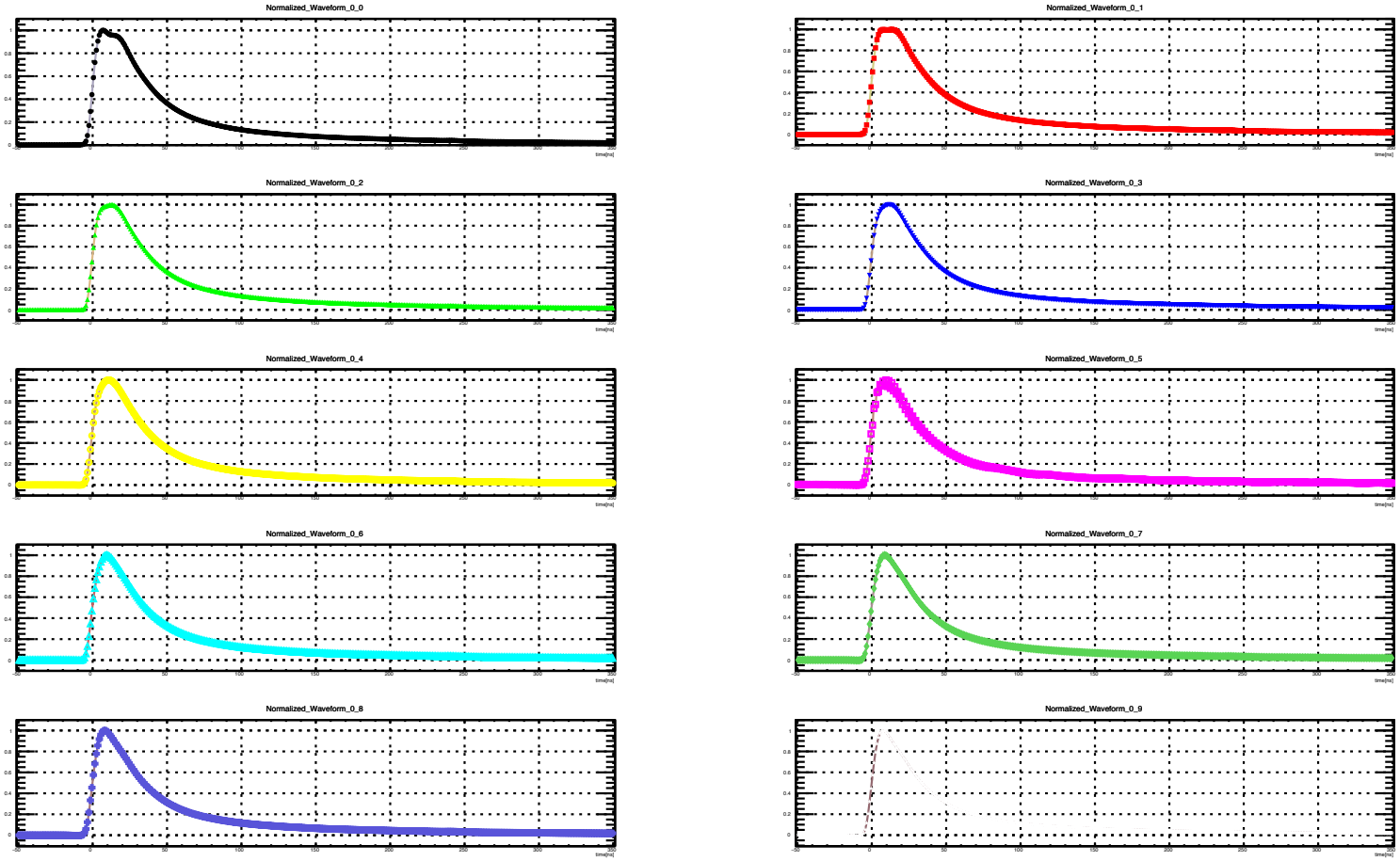


Fig.2.0: Typical waveform by position for a 1 – m long module 0

Waveform Data Analysis[3]

Waveform by Position : Module 1

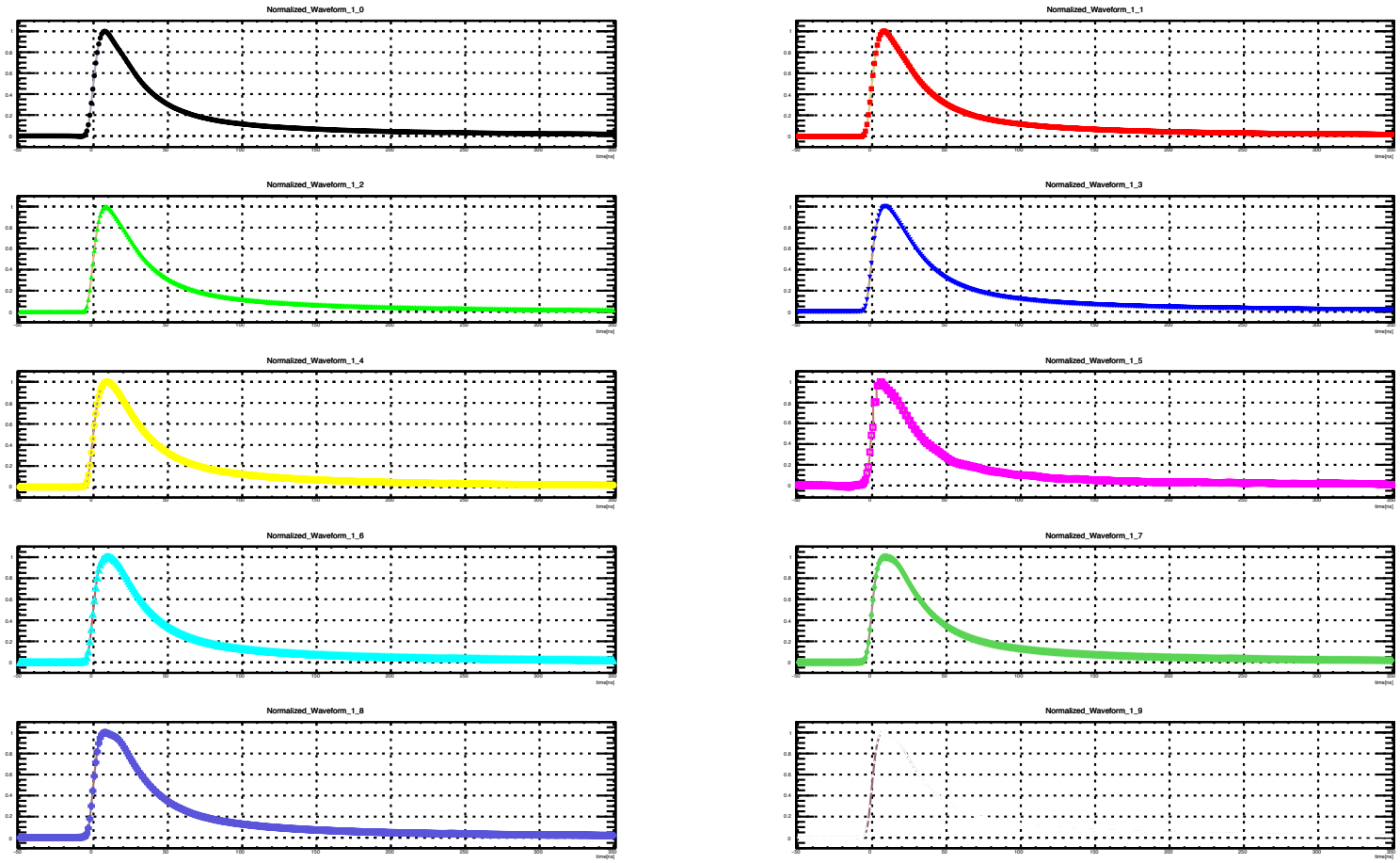


Fig.3.0: Typical waveform by position for a 1 – m long module 1

Waveform Data Analysis[4]

Delta waveform by Position : Module 0

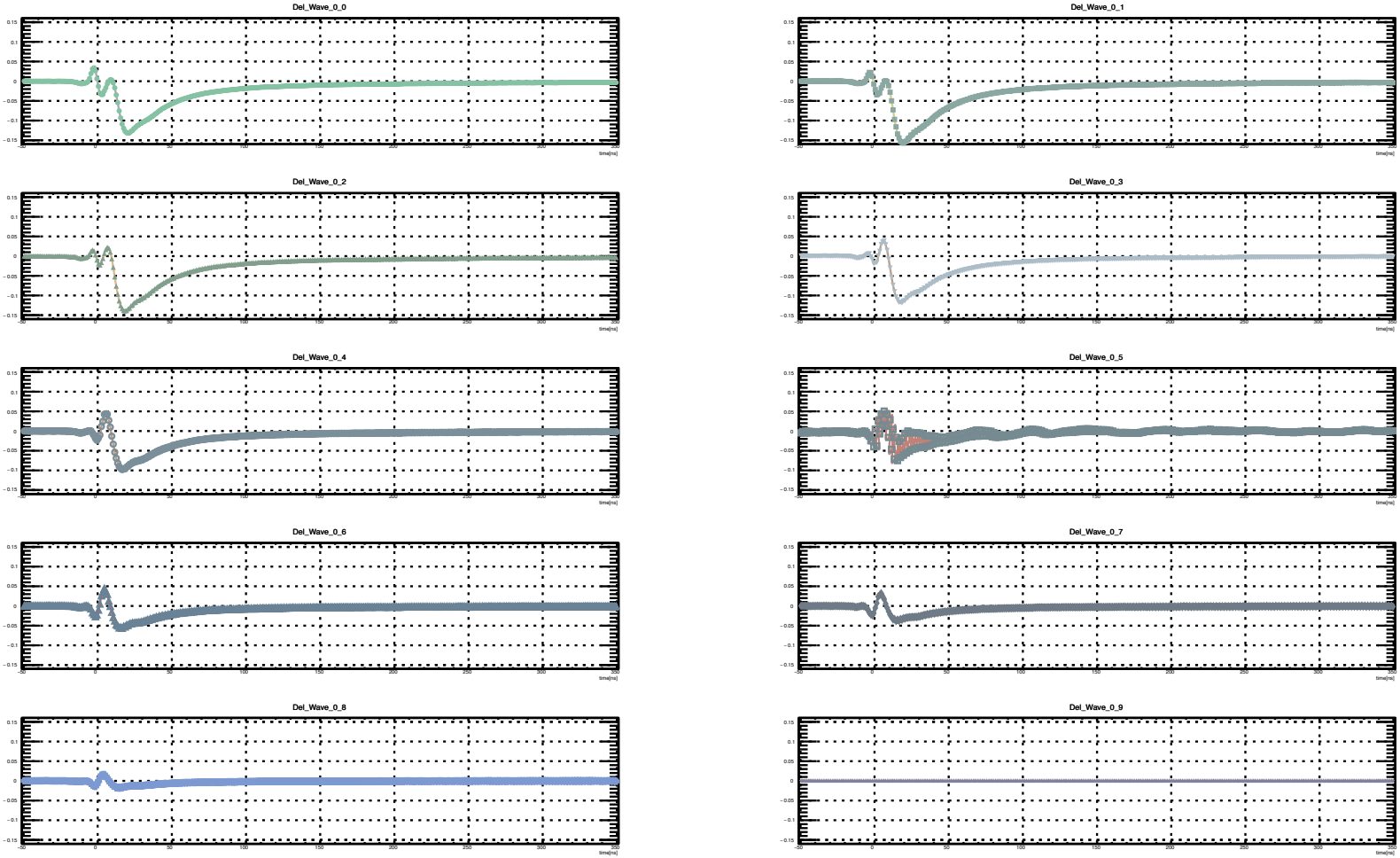


Fig.4.0: Delta waveform between waveform_0_9 and waveform based on ith position

Waveform Data Analysis[5]

Delta waveform by position : Module 1

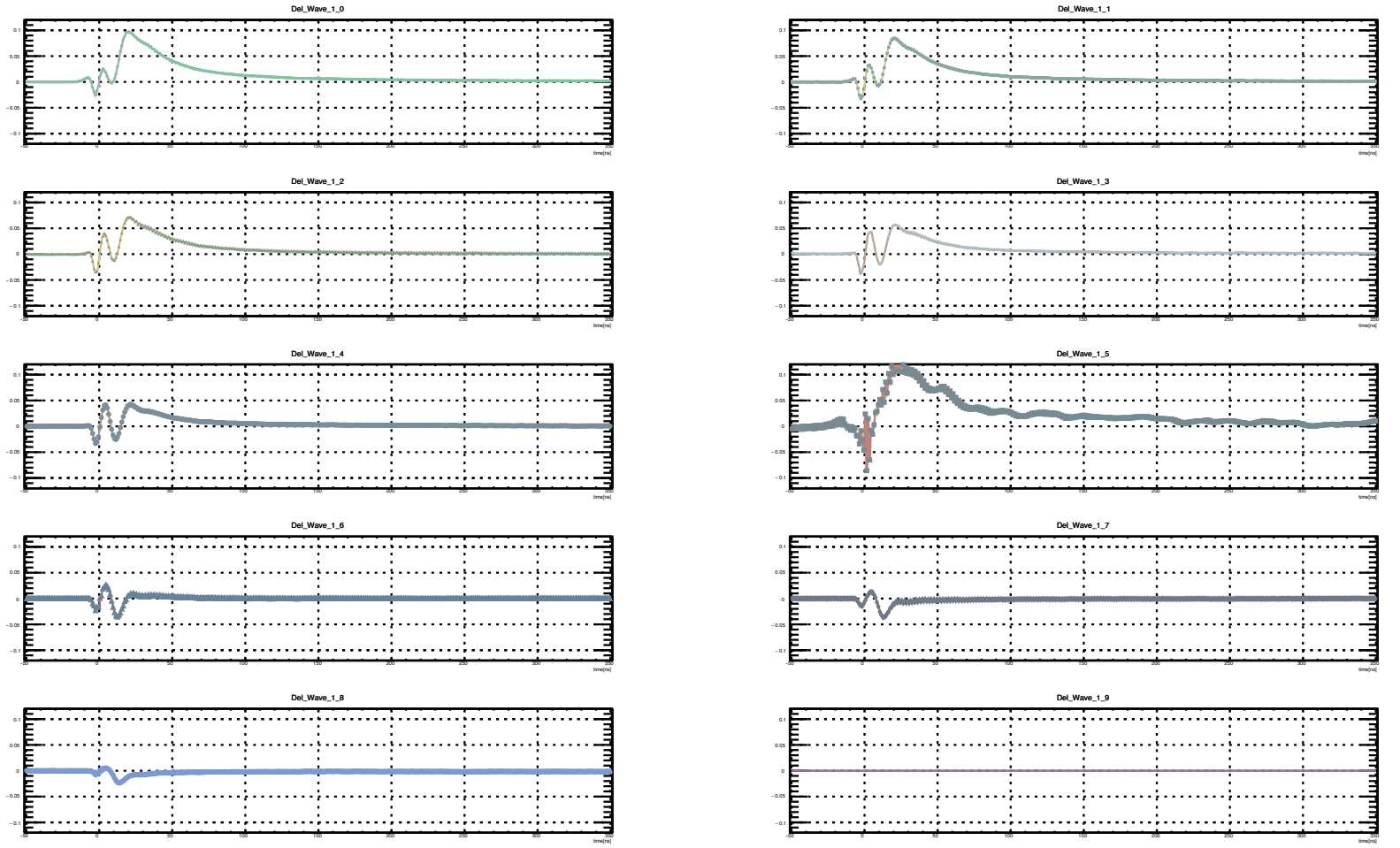


Fig.5.0: Delta waveform between waveform_0_9 and waveform based on ith position

Waveform Data Analysis[6]

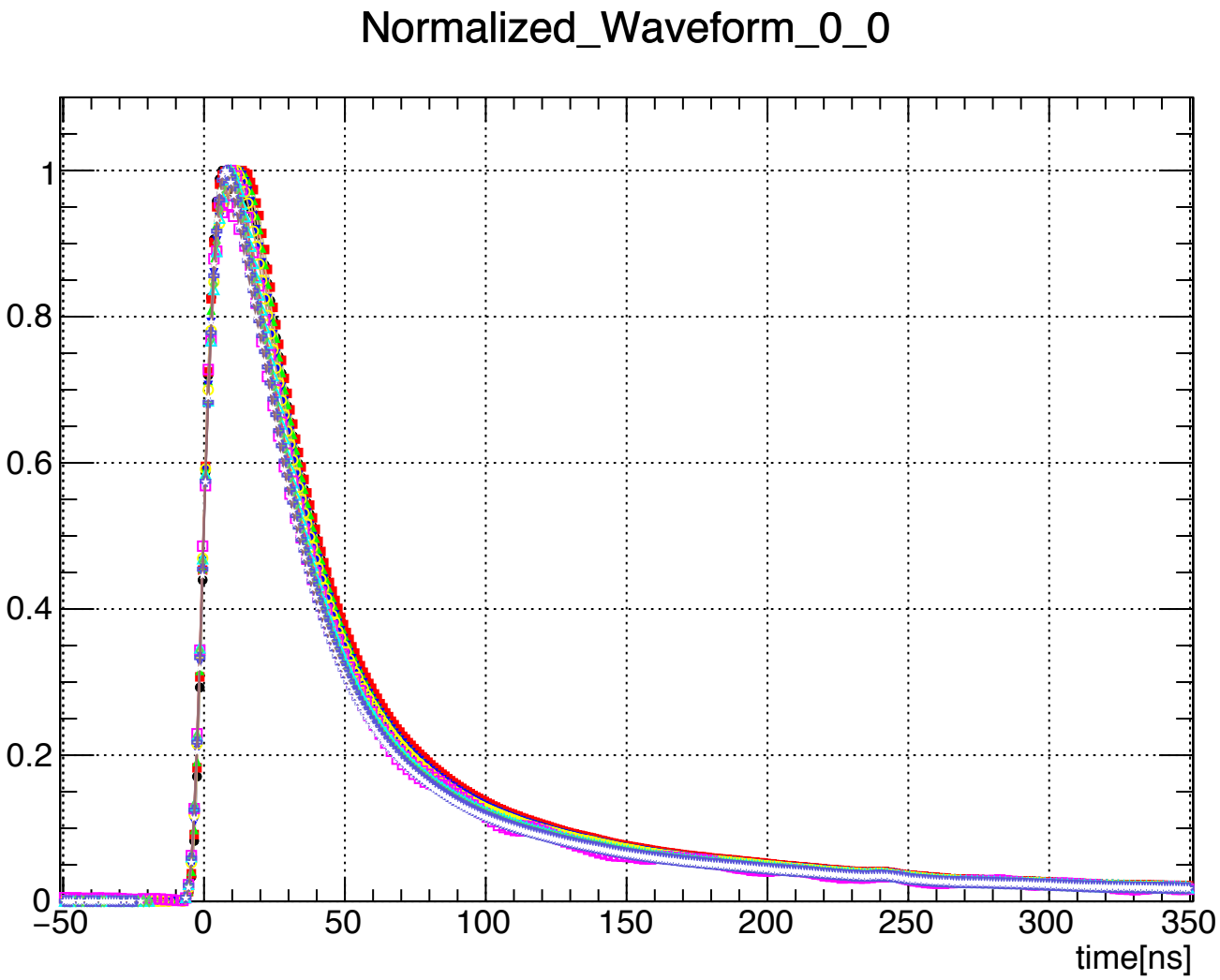


Fig.6.0: Superposed typical waveform for a 1 – m long module 0

Waveform Data Analysis[7]

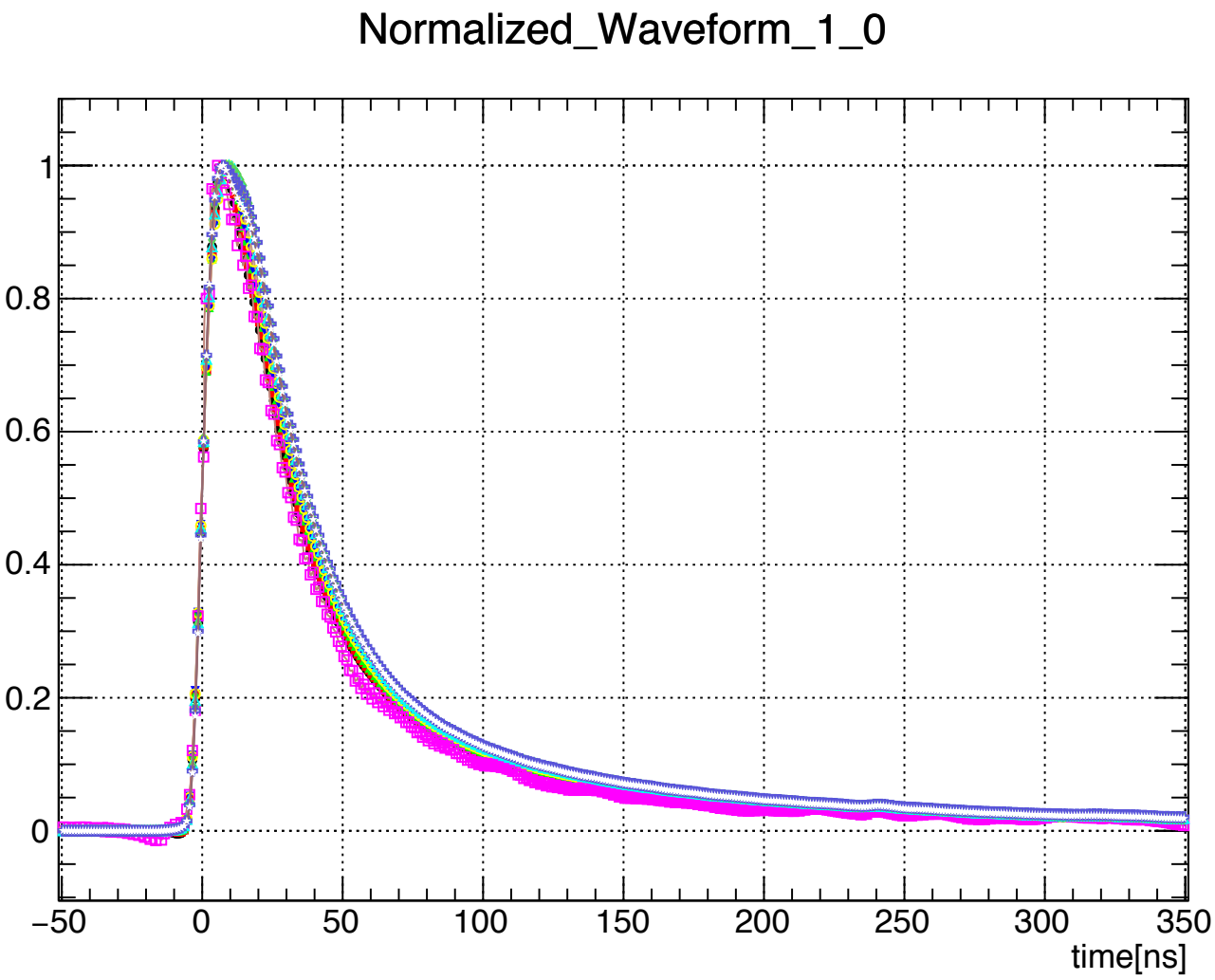
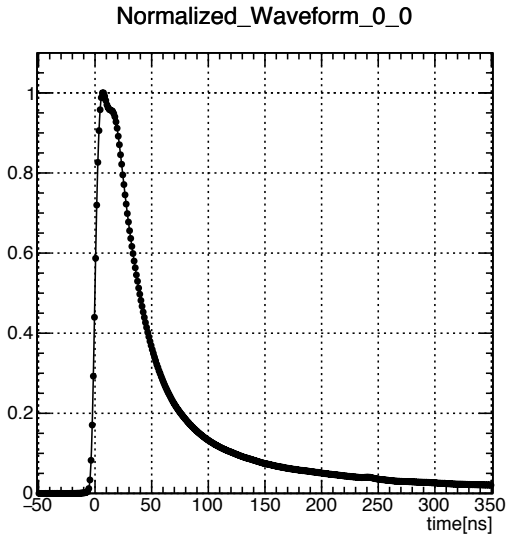
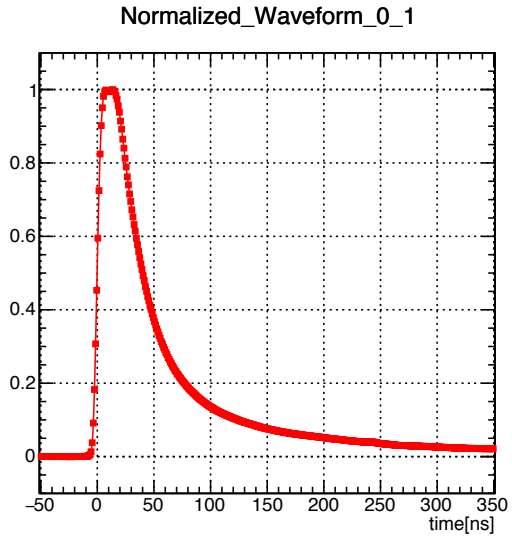
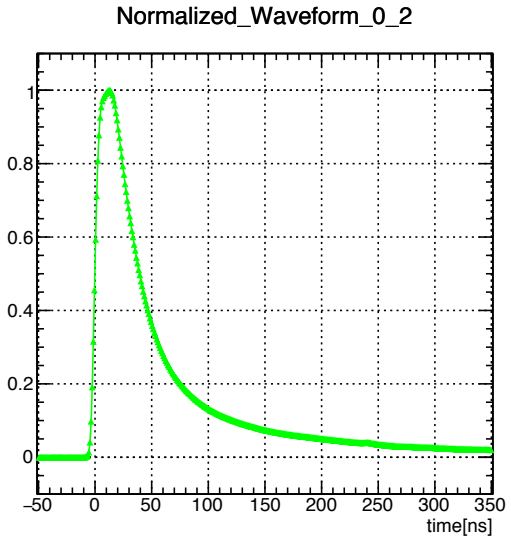


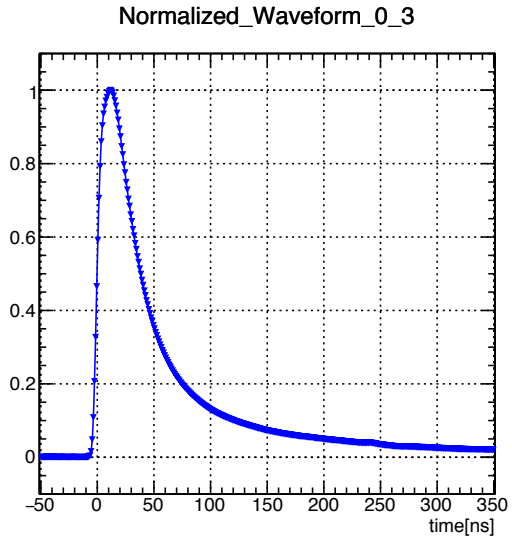
Fig.7.0: Superposed typical waveforms for a 1 – m long module 1

Backup[1]

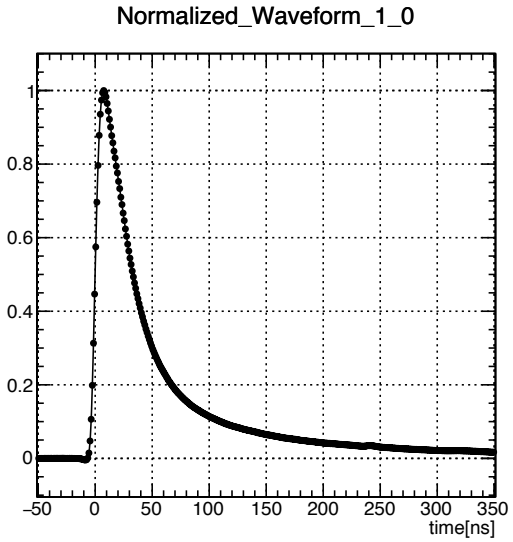

Normalized_Waveform_0_0
time[ns]

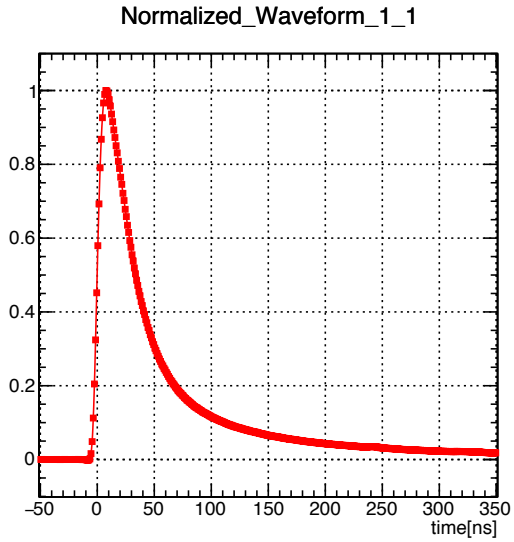

Normalized_Waveform_0_1
time[ns]

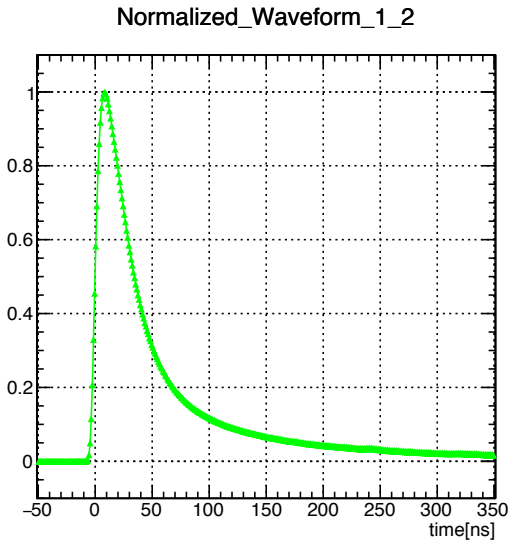

Normalized_Waveform_0_2
time[ns]

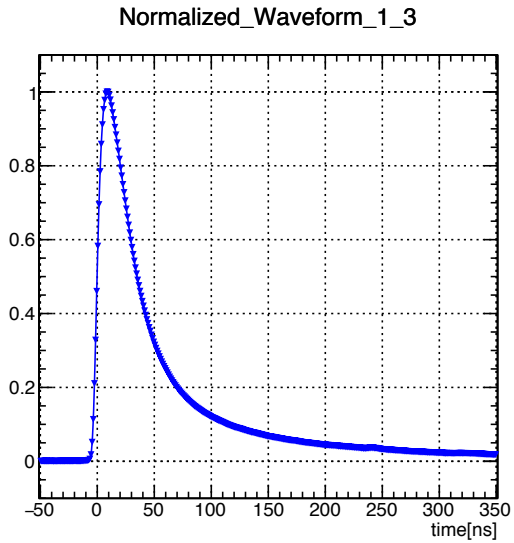

Normalized_Waveform_0_3
time[ns]

Backup[2]

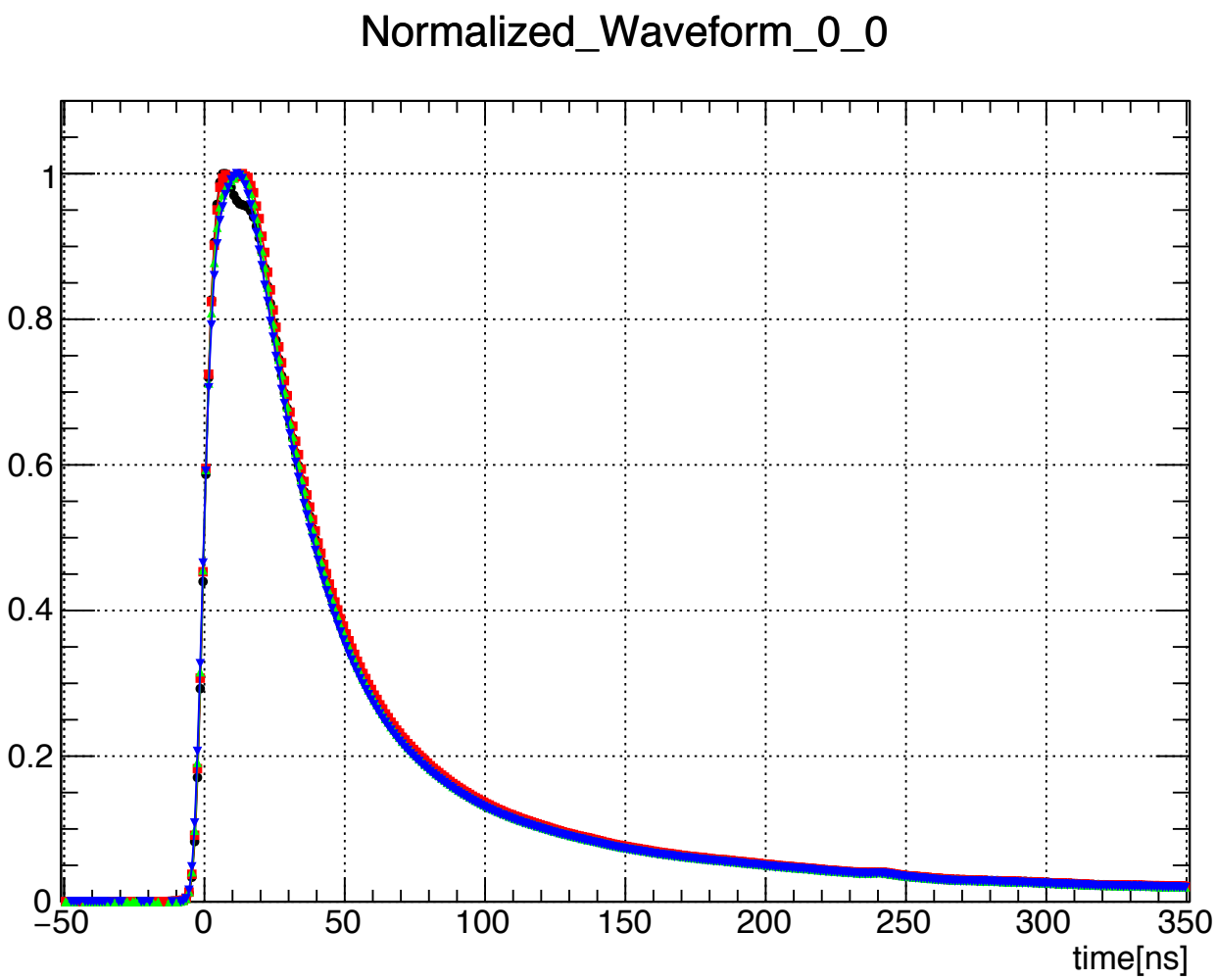

Normalized_Waveform_1_0
1
0.8
0.6
0.4
0.2
0
−50
0
50
100
150
200
250
300
350
time[ns]


Normalized_Waveform_1_1
1
0.8
0.6
0.4
0.2
0
−50
0
50
100
150
200
250
300
350
time[ns]

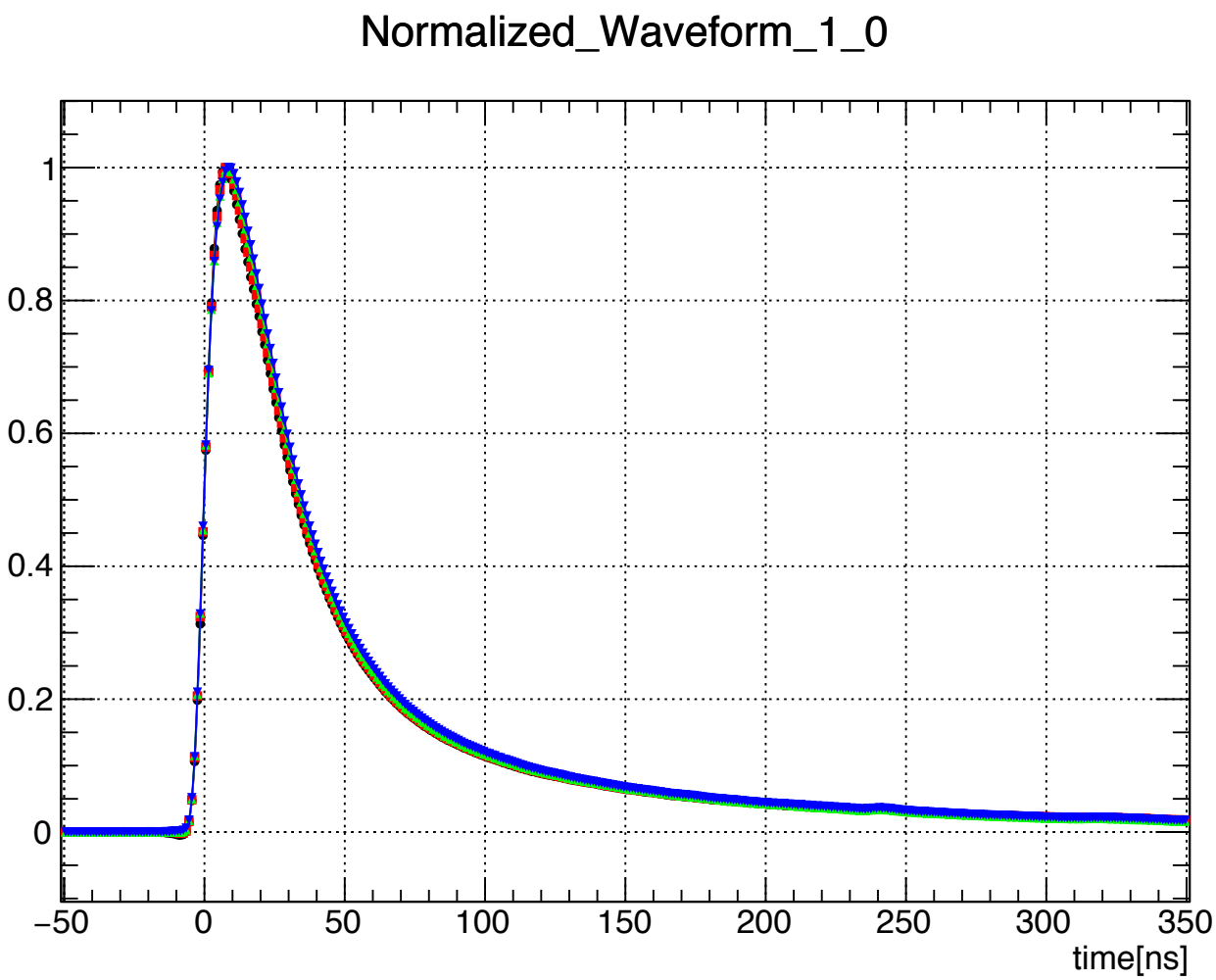

Normalized_Waveform_1_2
1
0.8
0.6
0.4
0.2
0
−50
0
50
100
150
200
250
300
350
time[ns]


Normalized_Waveform_1_3
1
0.8
0.6
0.4
0.2
0
−50
0
50
100
150
200
250
300
350
time[ns]

BACKUP[3]


Normalized_Waveform_0_0
1
0.8
0.6
0.4
0.2
0
−50
0
50
100
150
200
250
300
350
time[ns]

Backup[4]


Normalized_Waveform_1_0
1
0.8
0.6
0.4
0.2
0
−50
0
50
100
150
200
250
300
350
time[ns]