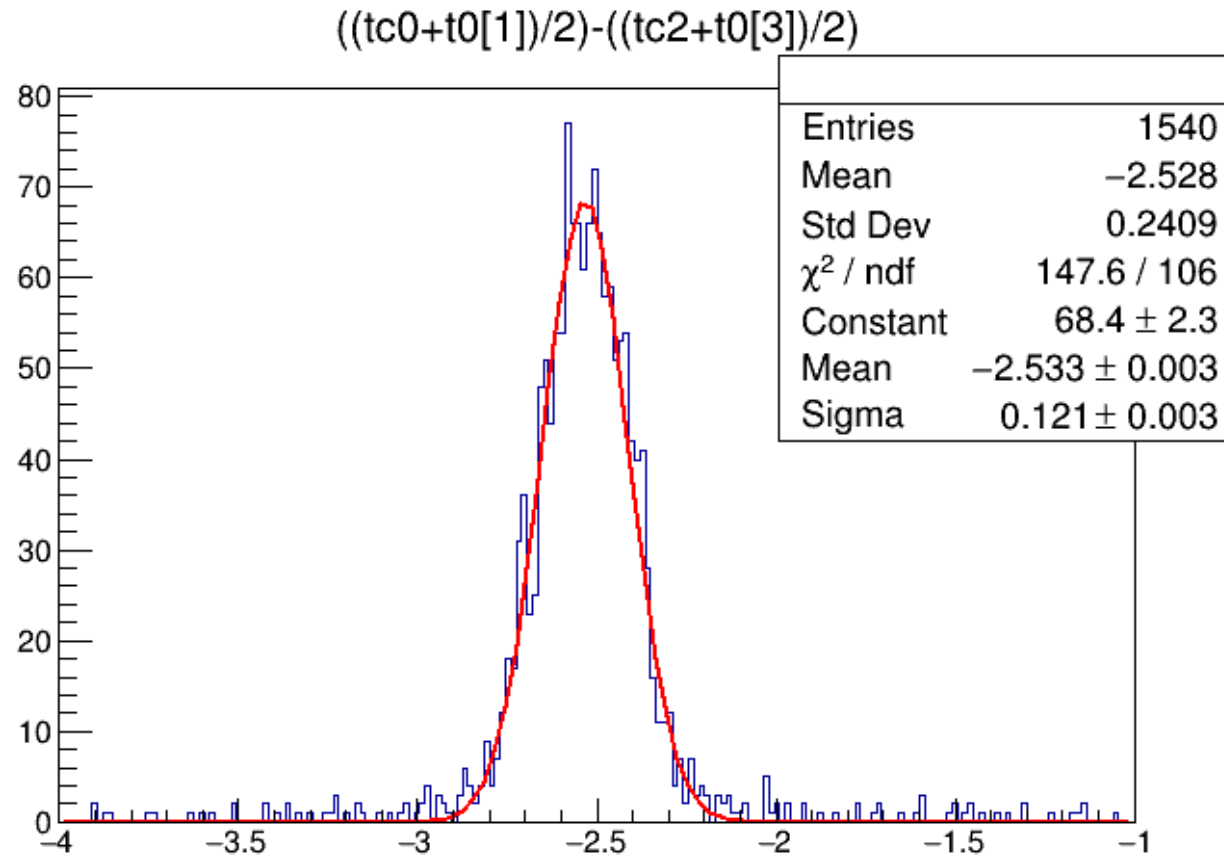


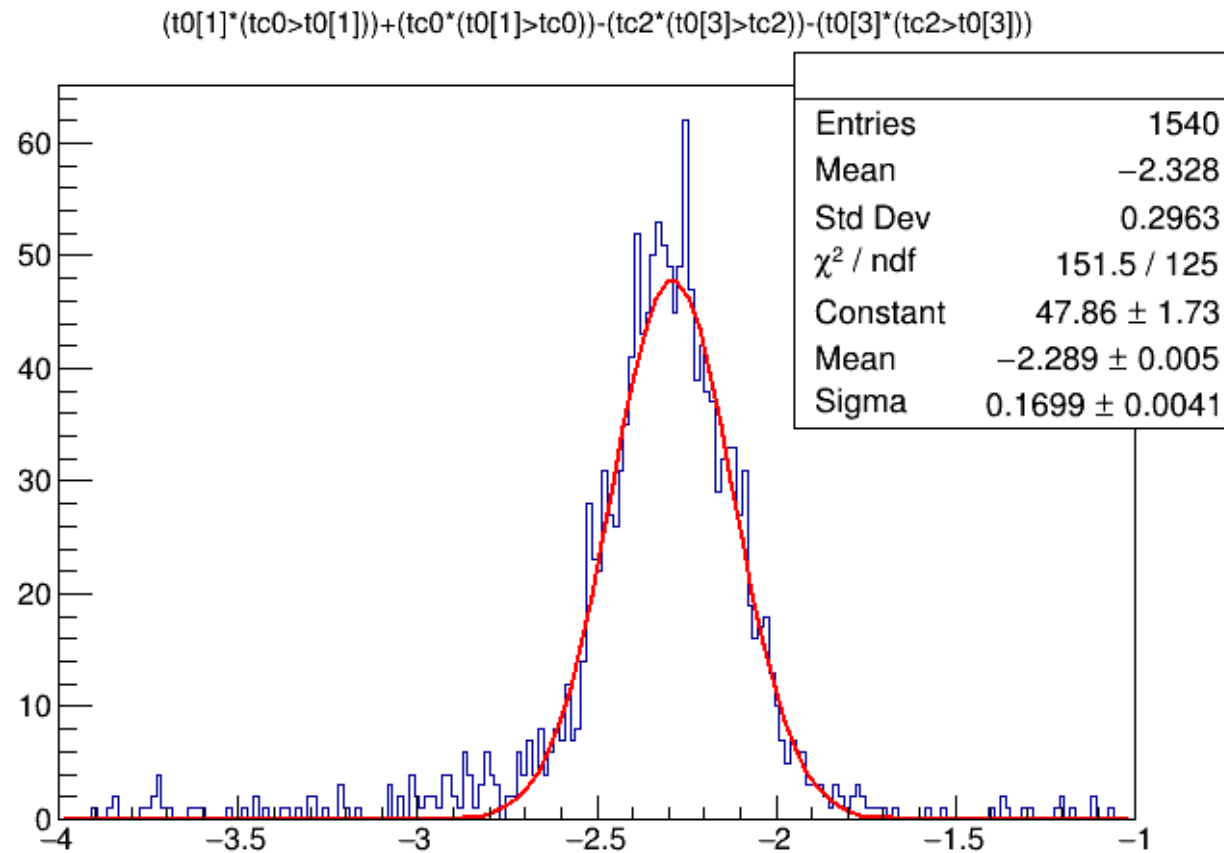
Time Resolution and Gain Check

Kyeong Ro Lee

Time Resolution with Mylar Film



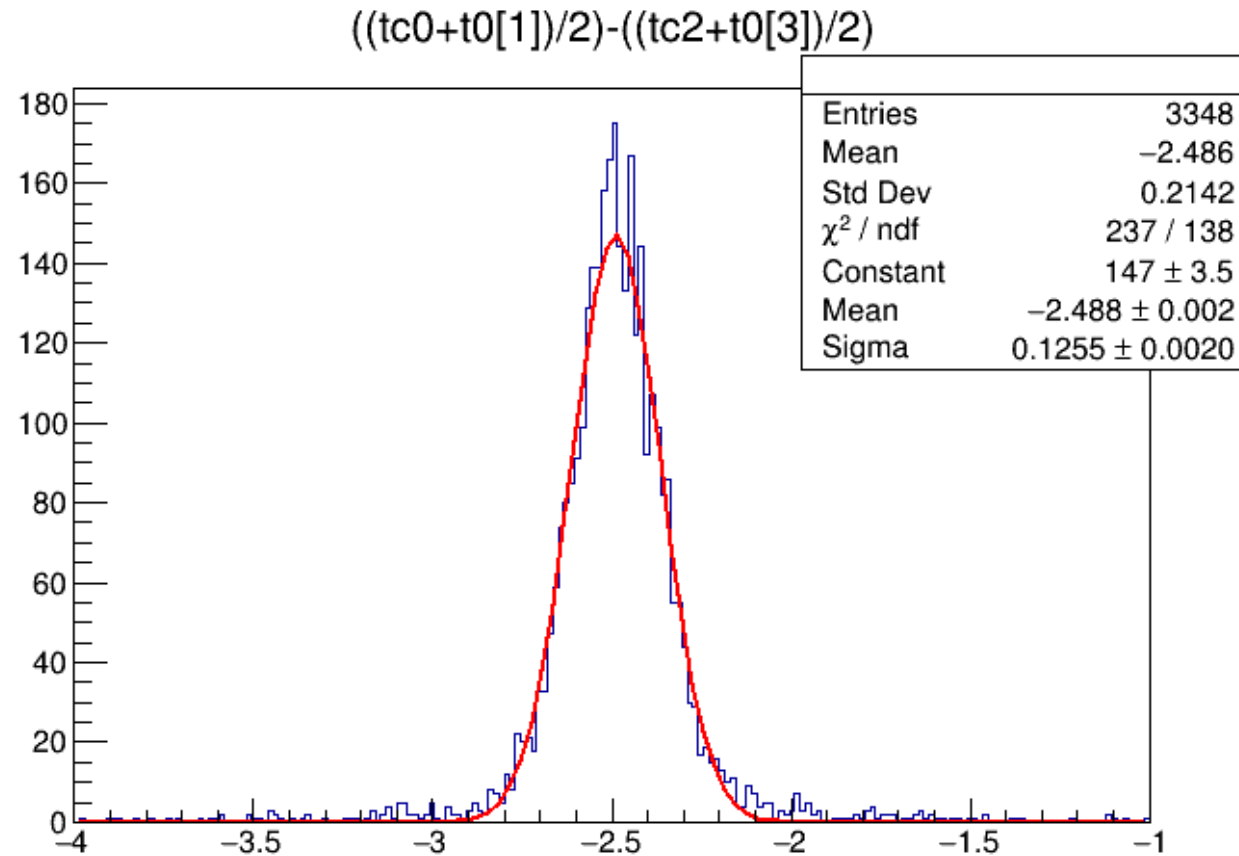
Time Resolution with Mylar Film



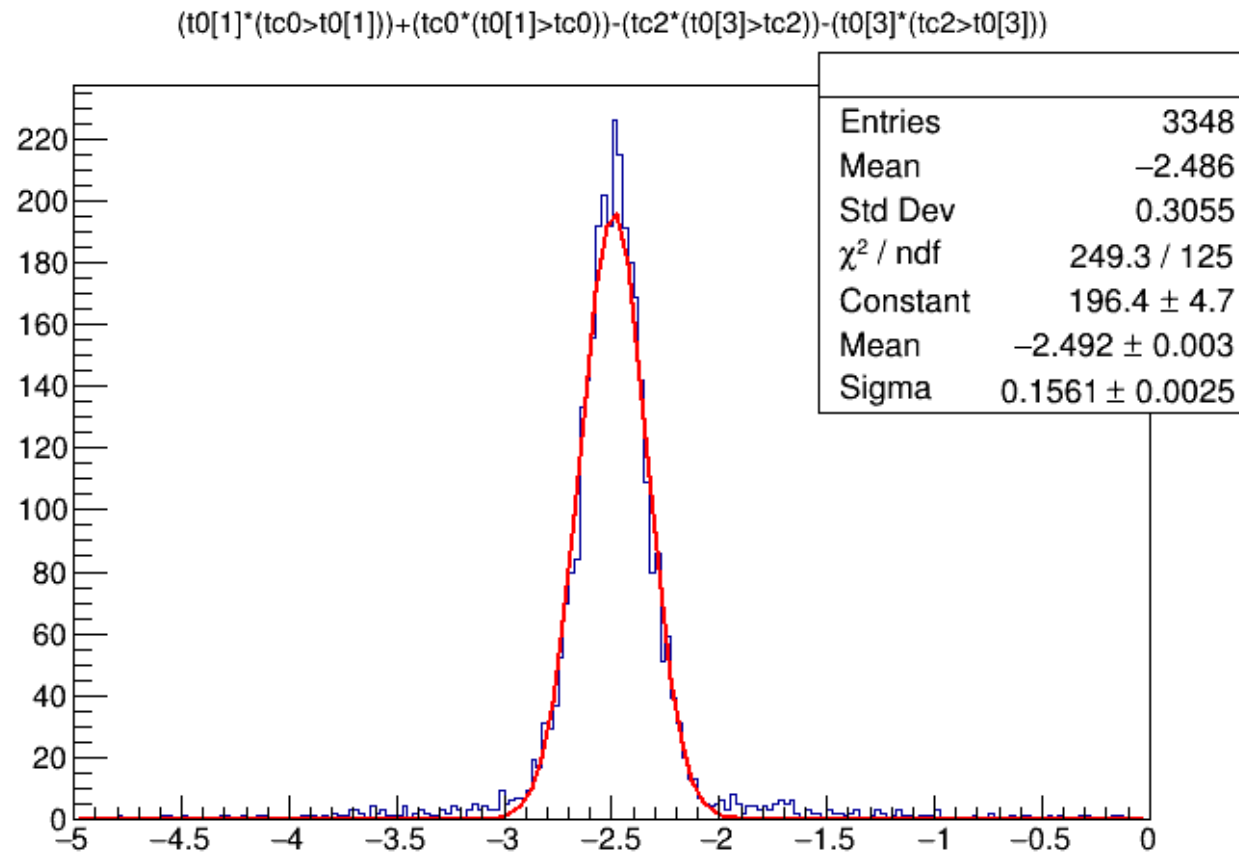
Time Resolution with Mylar Film

- $dT_{\text{mean}} = 0.0856 \text{ ns}$
- $dT_{\text{min}} = 0.1201 \text{ ns}$

Time Resolution without Reflector



Time Resolution without Reflector



Time Resolution without Reflector

- $dT_{\text{mean}} = 0.0887 \text{ ns}$
- $dT_{\text{min}} = 0.1104 \text{ ns}$

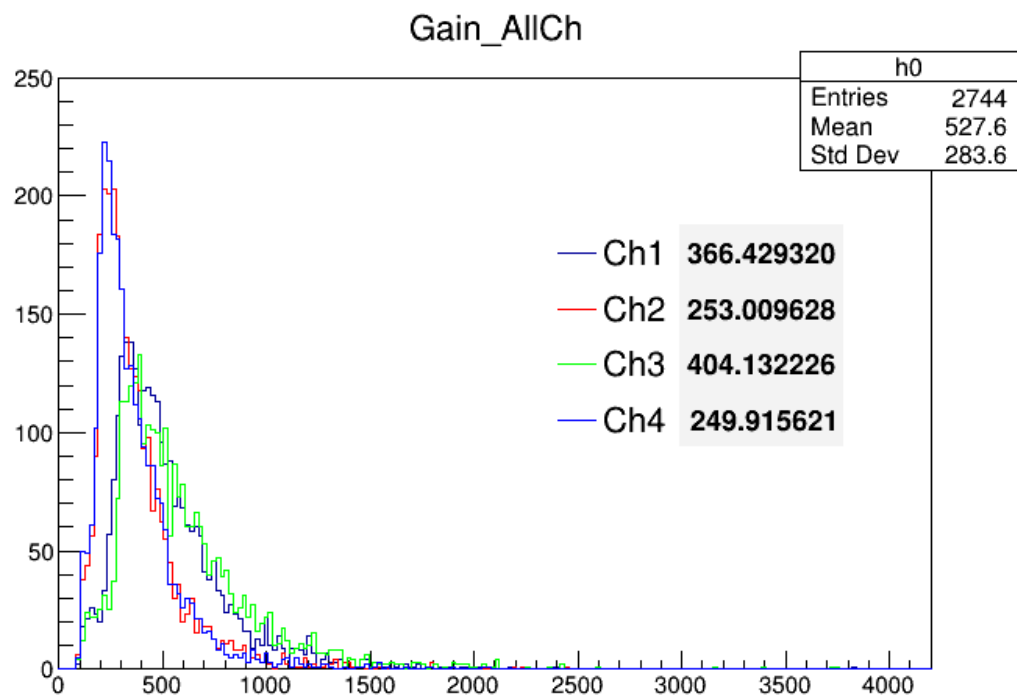
Time Resolution under Various Reflecting Materials

Reflecting Material	dTmean(ns)	dTmin(ns)
Al	0.0898	0.1140
Tyvek	0.0849	0.1051
Mylar	0.0856	0.1201
w/o reflector	0.0887	0.1104

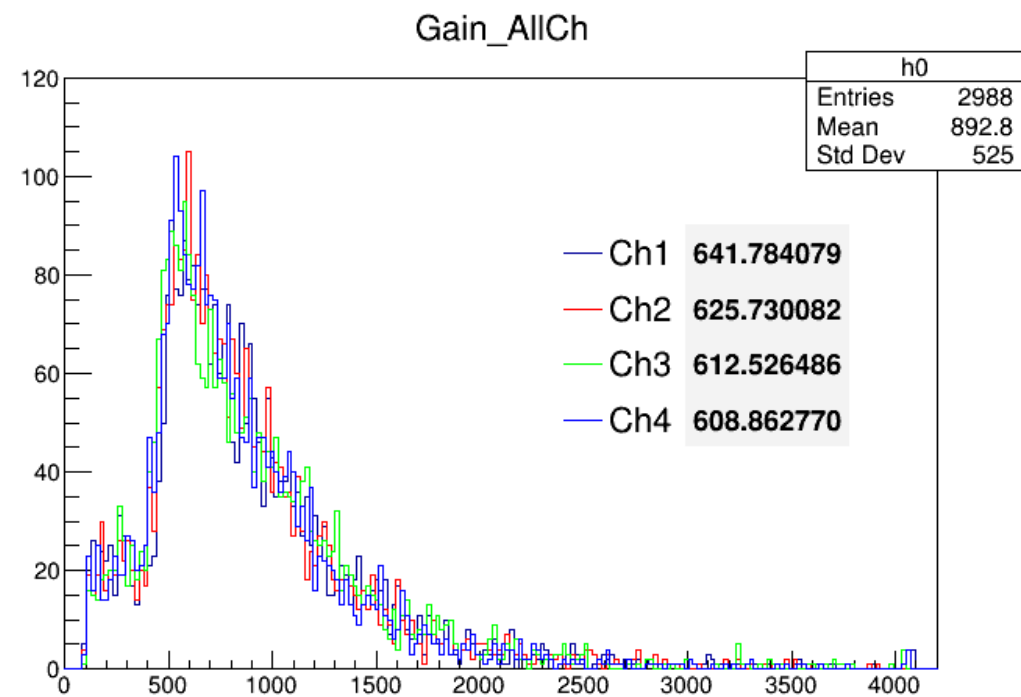
Gain Check

- Equalized the height distribution within 10% variance of the most probable values.
- Adjusting the HV, found optimal values of HV which give the peak of the distribution between 600MeV and 660MeV.

Bar 5&6

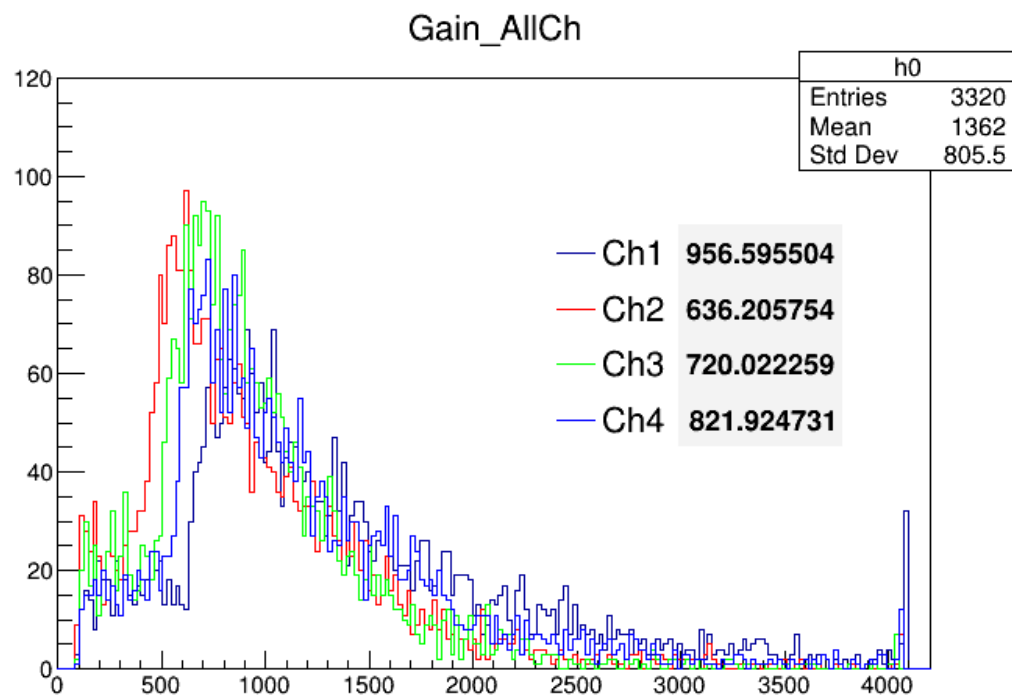


All 1500V

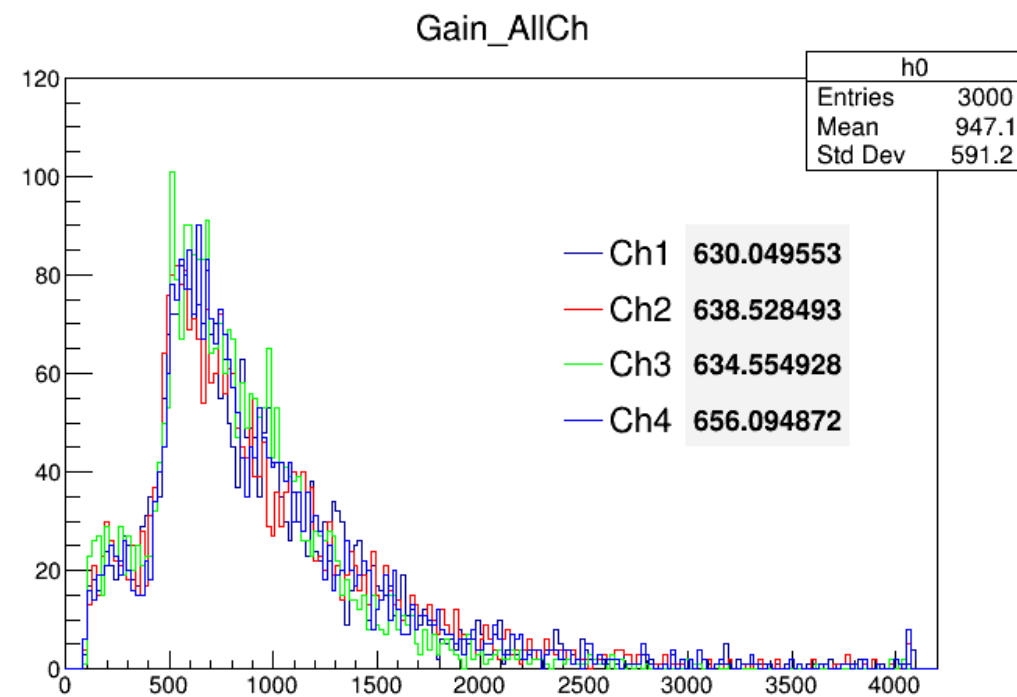


5L:1600V; 5R:1660V;
6L:1580V; 6R:1660V

Bar 7&8

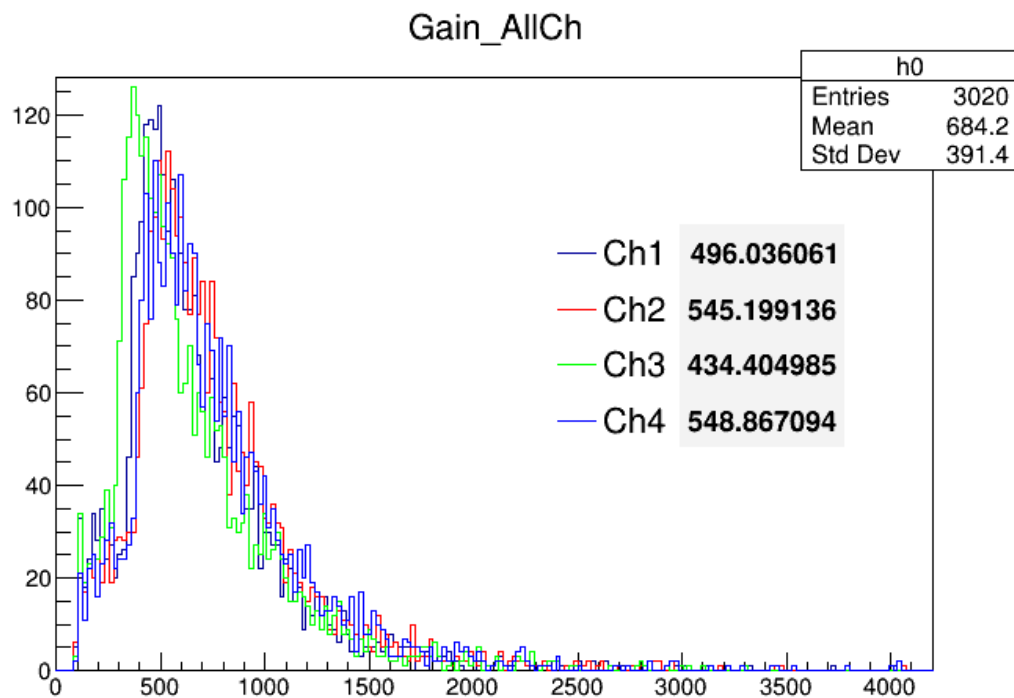


All 1600V

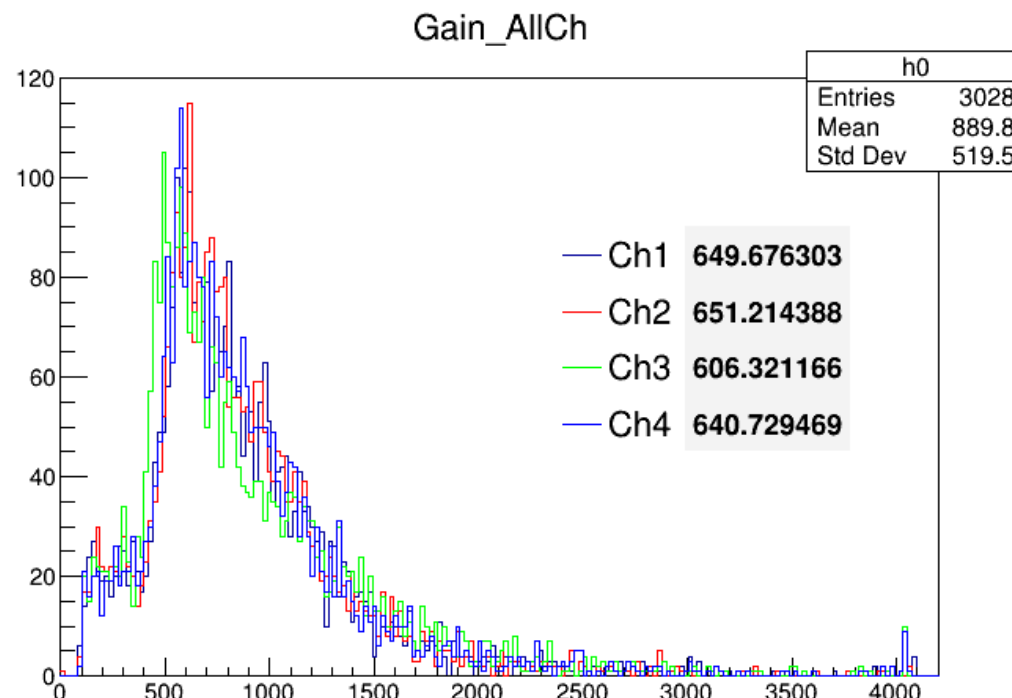


7L:1535V; 7R:1600V;
8L:1580V; 8R:1565V

Bar 9&10

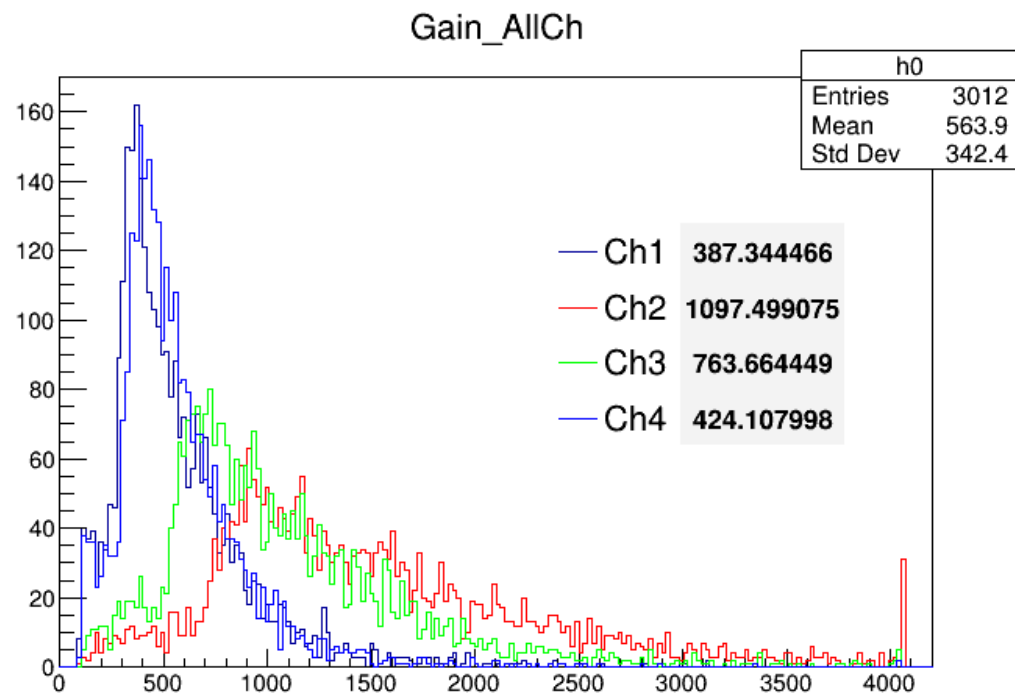


All 1550V

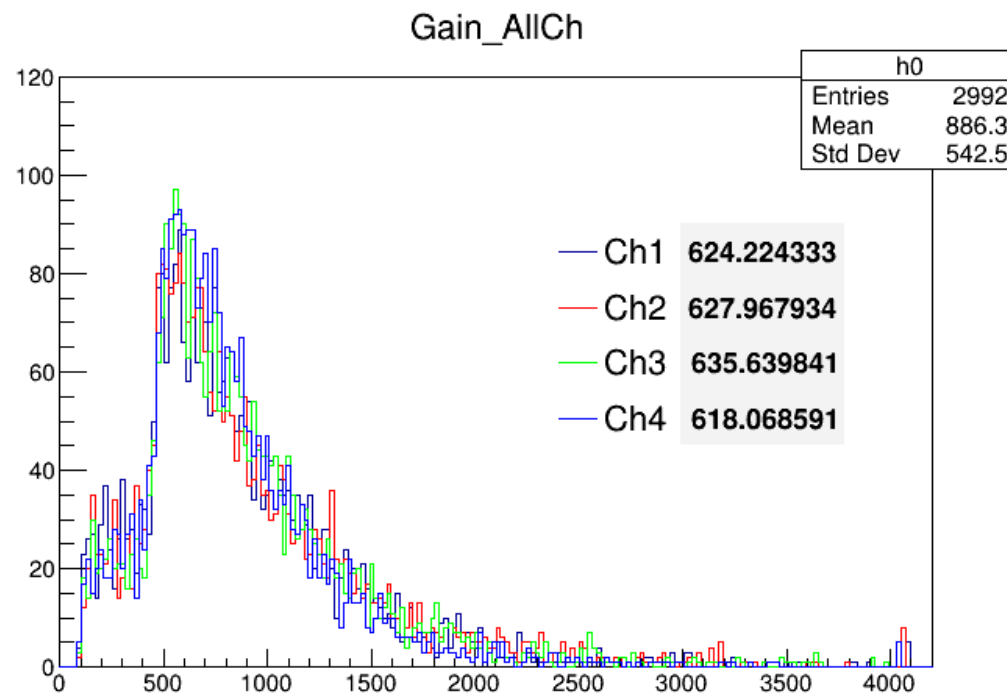


9L:1600V; 9R:1580V;
10L:1610V; 10R:1580V

Bar 11&12



All 1600V



11L:1685V; 11R:1515V;
12L:1570V; 12R:1675V