

Status report

05/24/2019

Michitaka Inomoto

Incubator ON/OFF

- Checked different in the PMT's signals between the incubator on and the incubator off.

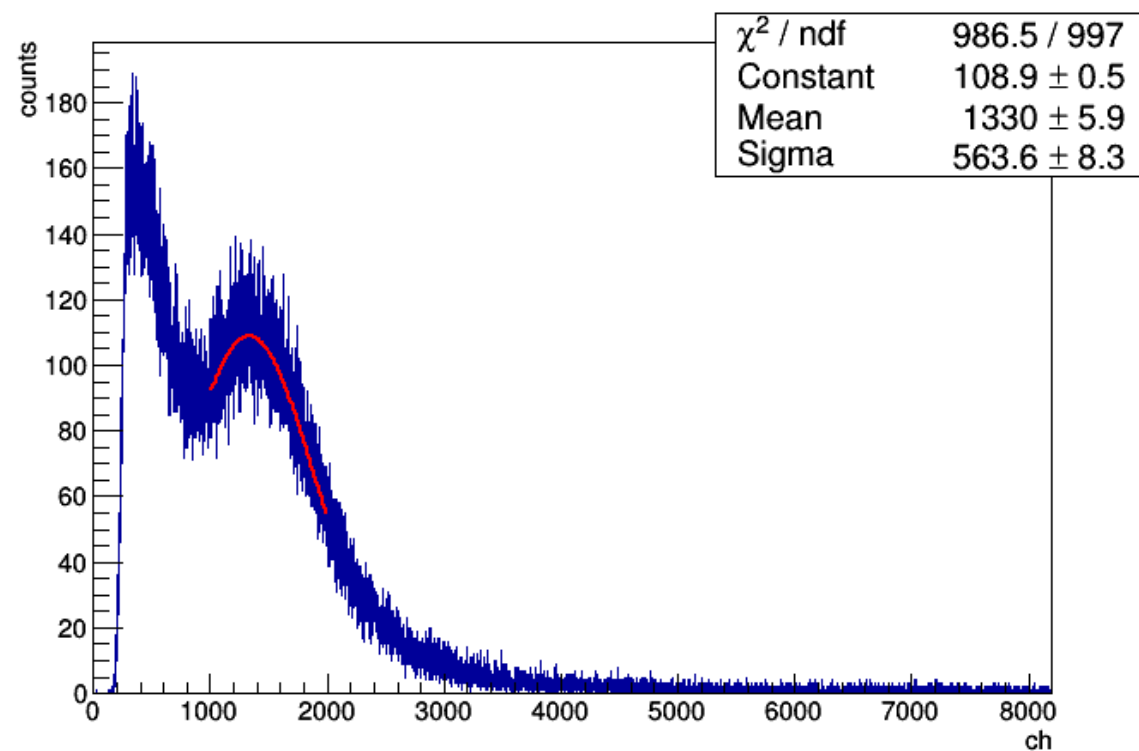
Experimental procedure is as follows:

1. Stabilize temperature (10 °C) with the incubator.
2. Turn off the incubator, and measure the dark rate.
3. After the rate measurement, measure the temperature.

Incubator ON/OFF

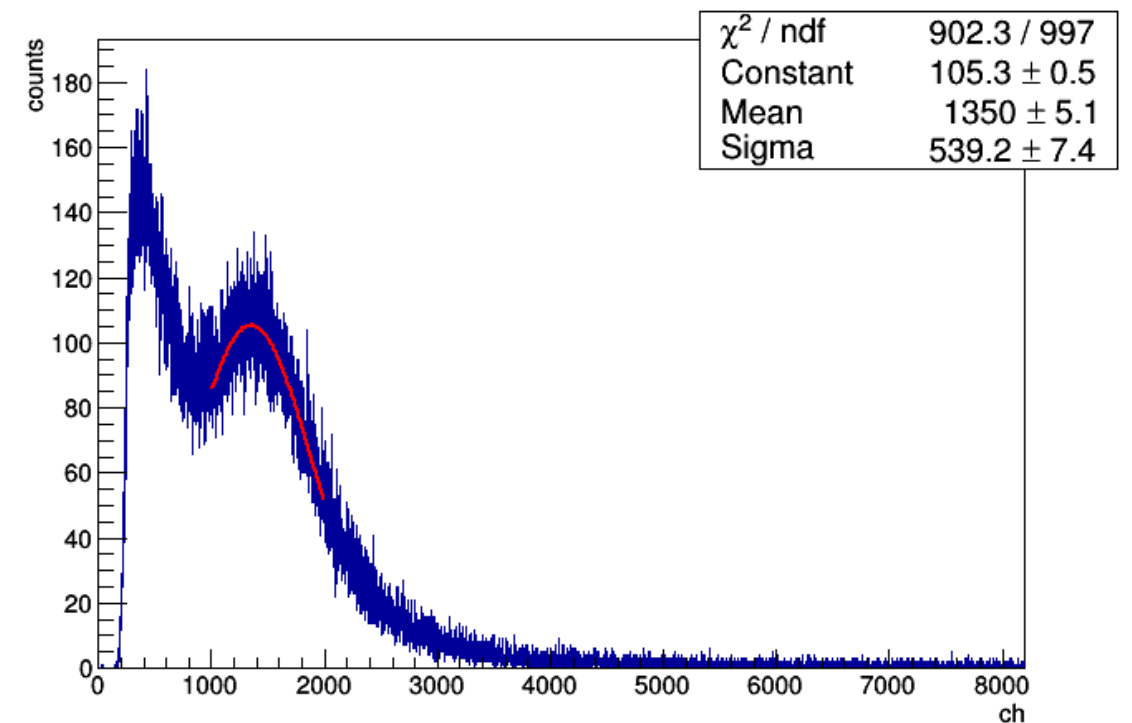
I performed that experiment twice.
Here are results of the measurements.

1st time



At the start of the measurement : 10.0°C
At the end of the measurement : 13.2 °C
Dark Rate:241.2

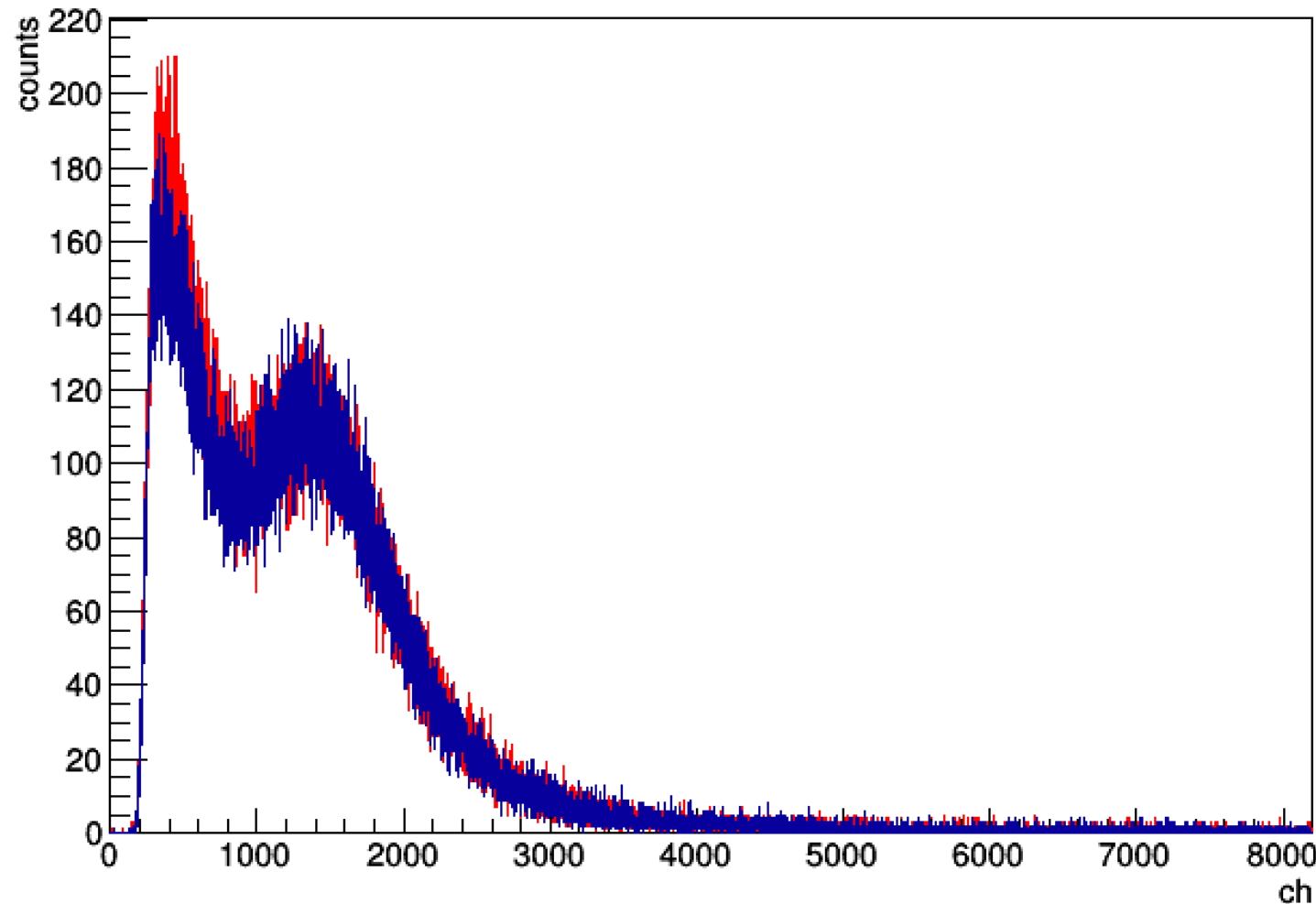
2nd time



At the start of the measurement : 10.0°C
At the end of the measurement : 13.2 °C
Dark Rate:233.0

Incubator ON/OFF

I compared the signals in the incubator off with ones in the incubator on.



Blue: the OFF-state (1st measurement of this experiment)

Red: the ON state (the measurement in 11 °C of previous experiment)

- There is no significant different in the signals between the OFF state and the ON state.

Next

- Will check the dark rate of the HA coating PMT.