

Afterpulse Results Update

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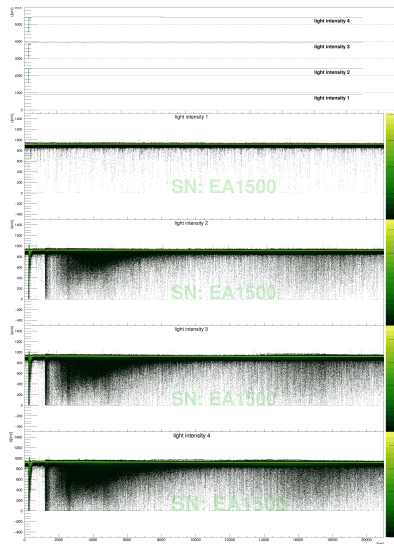
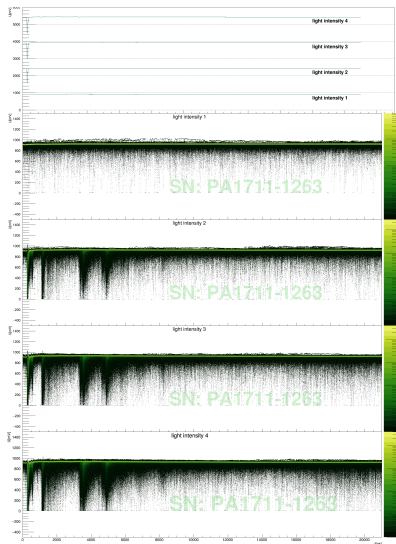
Outline

① Introduction

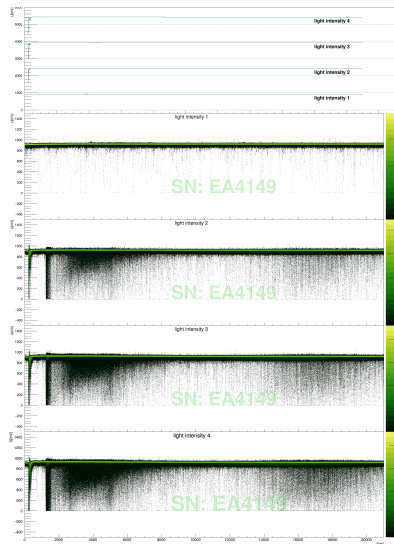
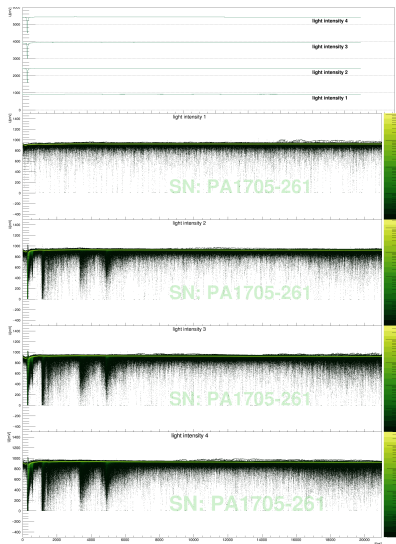
details about the AP test

- four light intensity:
dark noise, setpoint1000,setpoint2000,setpoint3000;
- raw data file size(binary): 8Gb for each PMT.
- raw data
path:**login.pmt.ihep.ac.cn:/pmtfs/disk01/pmthome/aptest/**
- frame length: $21\mu s$, 40000 events recorded for one test.

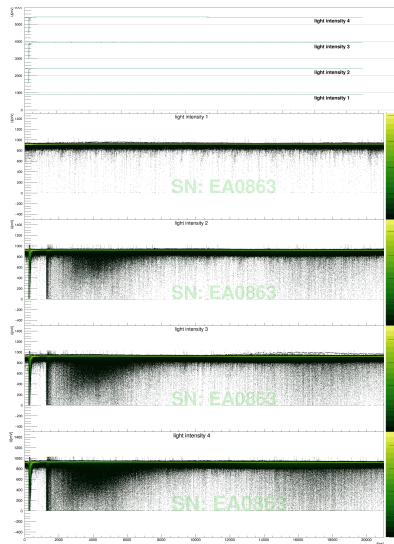
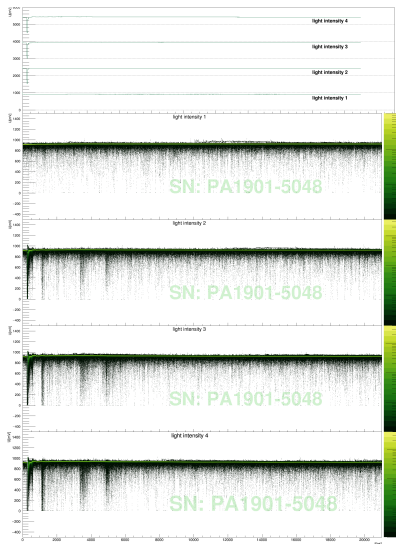
waveform of afterpulse



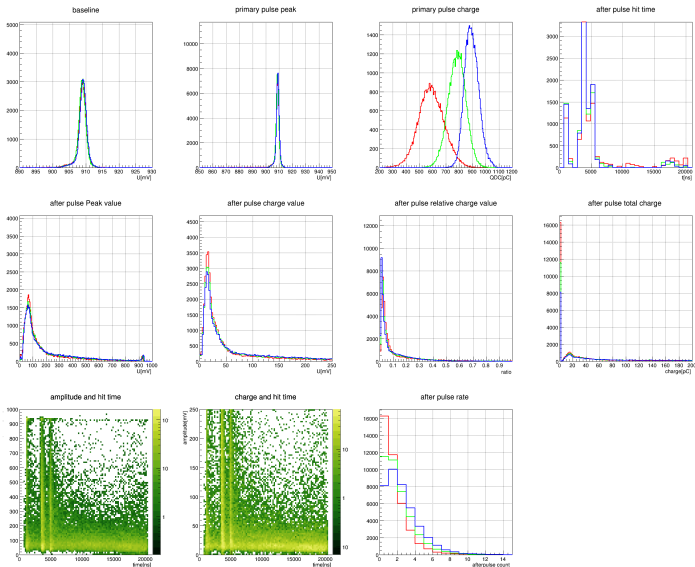
waveform of afterpulse



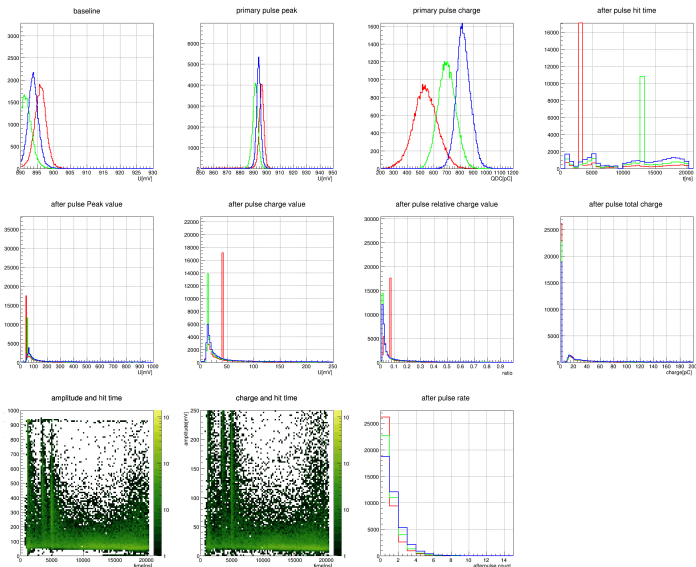
waveform of afterpulse



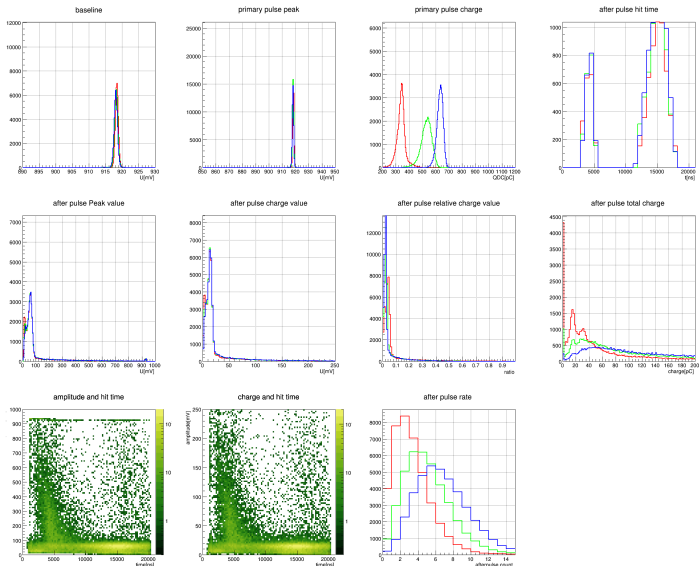
MCP PMT PA1711-1263



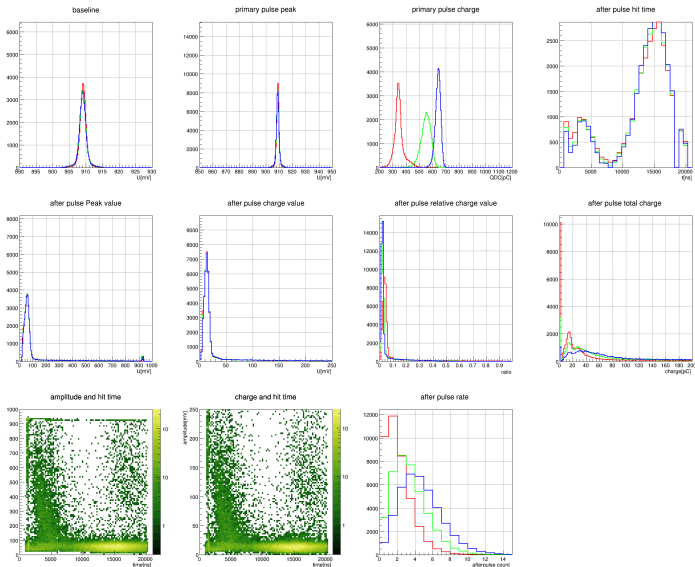
MCP PMT PA1705-261



HAMAMATSU PMT EA1500



HAMAMATSU PMT EA4149



summary

- 1 already finished 11 HAMAMATSU PMTs and 22 MCP PMTs;
- 2 the light intensity is too large and saturation appeared.
we need to bypass amplifier while testing after-pulse;
- 3 the waveform of MCP PMT is strange, and we need to study more details to check the existence of "after pulses";

THANKS

BACK-UP