

HEIC-Cube CR test

张研硕

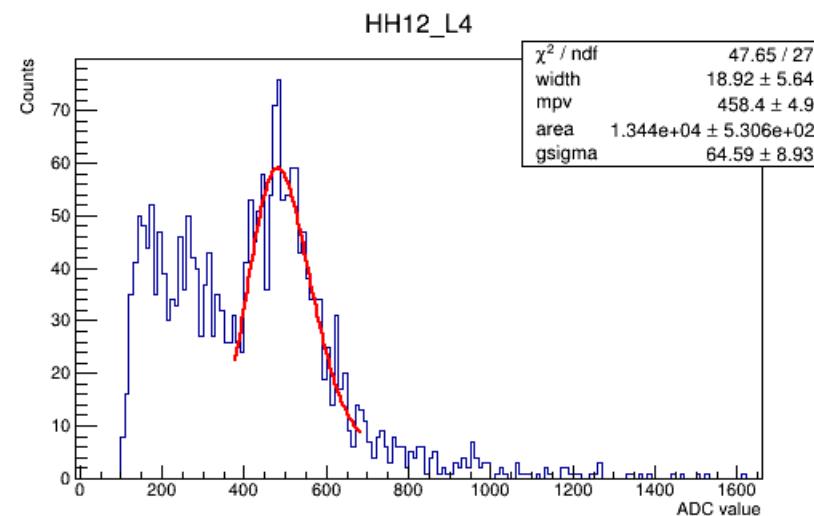
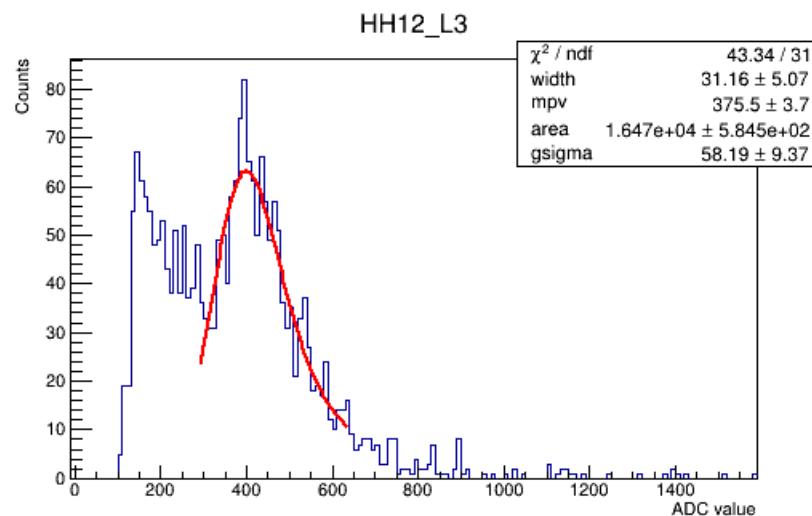
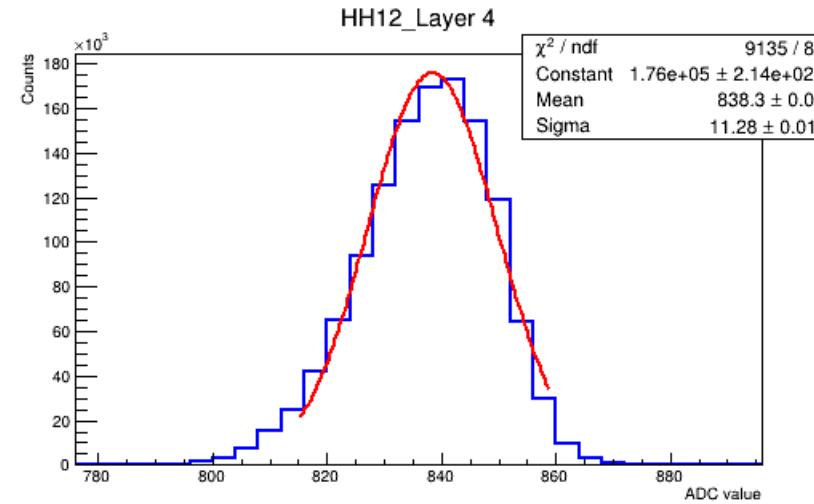
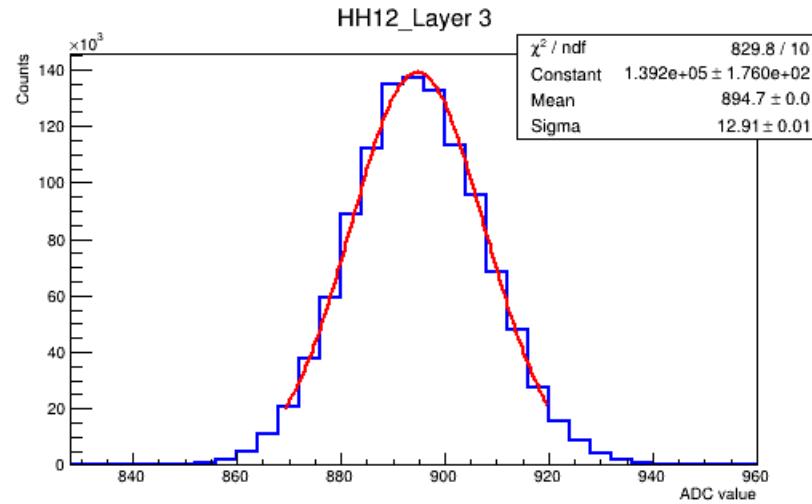
2024.02.01

宇宙线测试

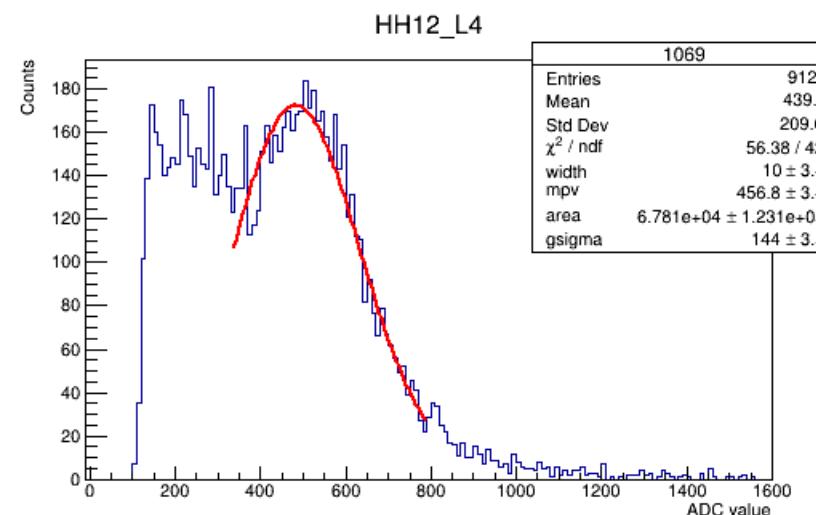
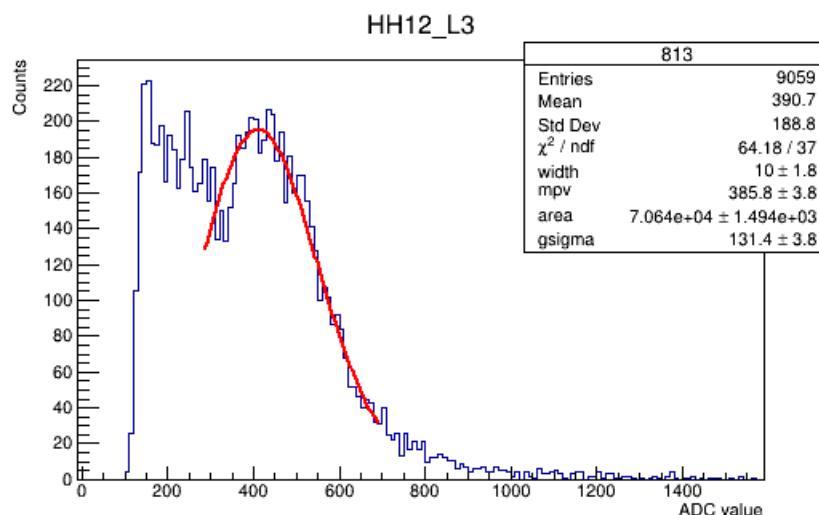
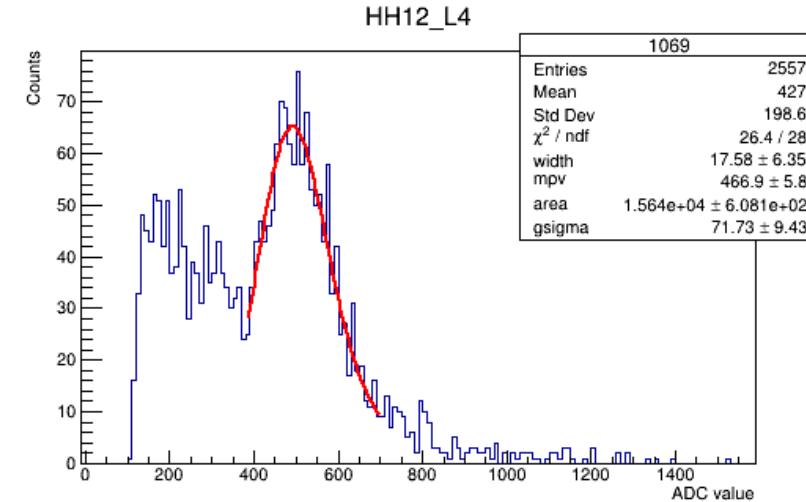
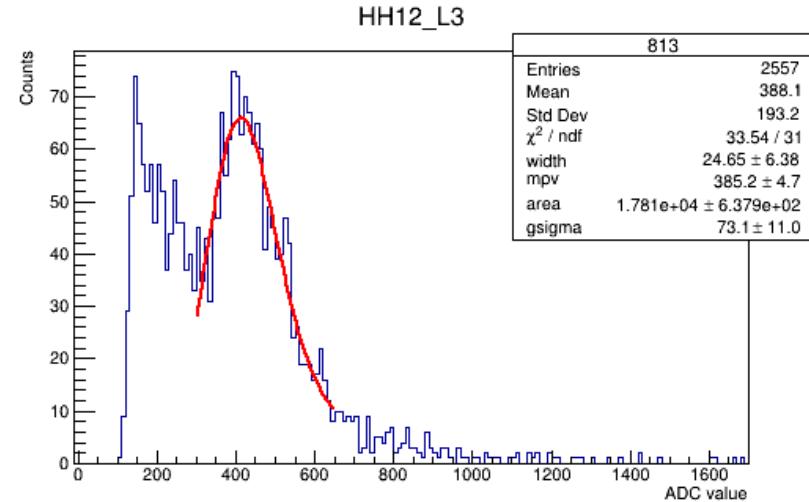
- 3 cm 边长的 BGO 晶体 5 行 \times 5 列 \times 2 层;
- 每次测试时间约 1 天，目前共获得 38 个有效数据包;
- 1 个完整的数据包有大约 31 万 个计数，平均 1 秒 3.6 个;
- MIPs 筛选条件：
 - 2 层 都要有信号;
 - 每层有 1 或 2 个击中;
 - **击中的晶体位置上下对应**;



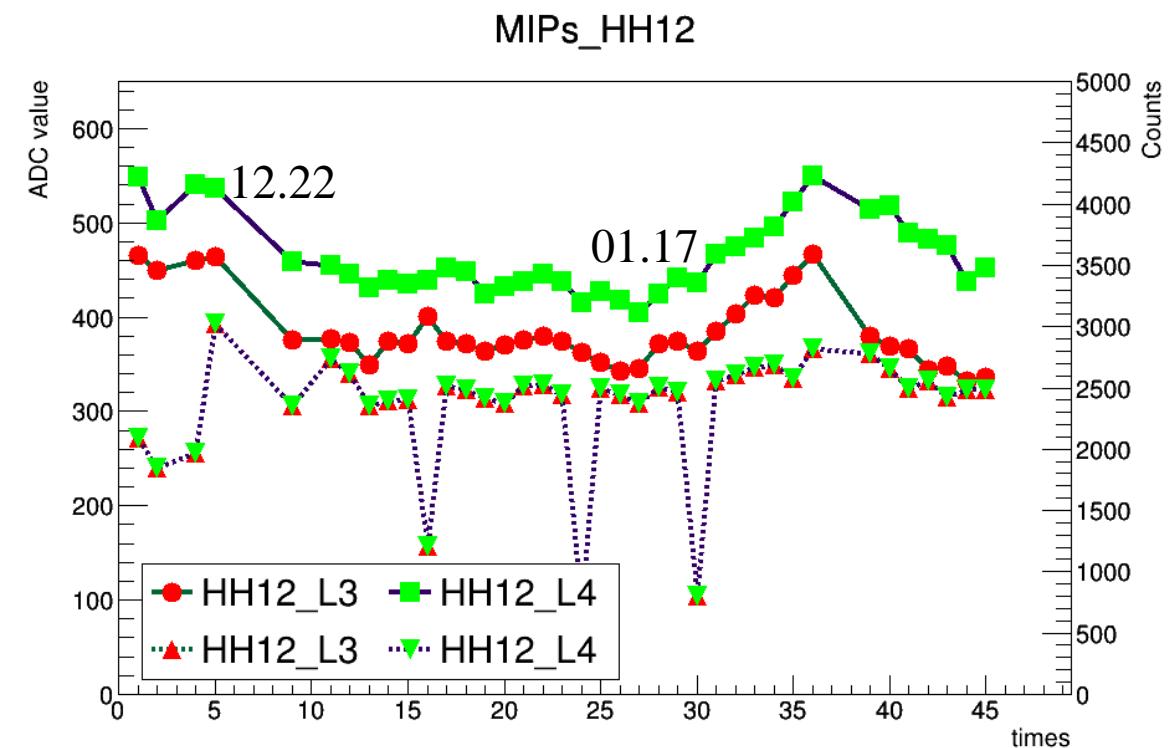
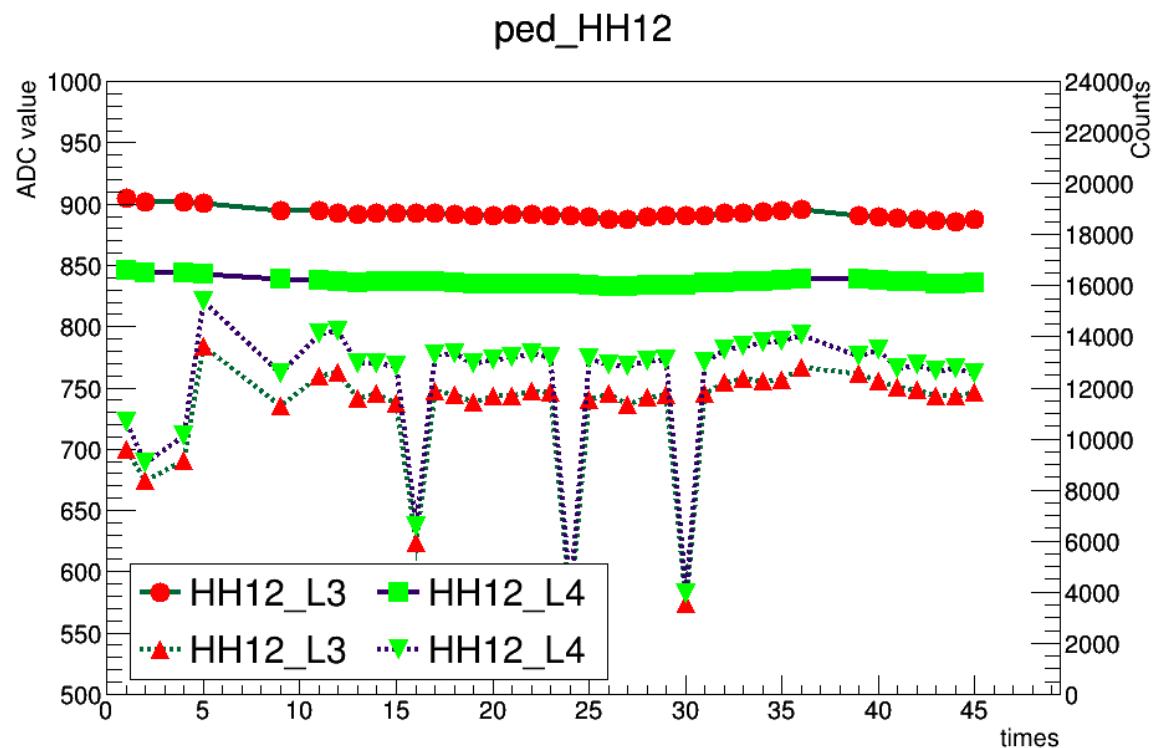
典型结果 -- 12.26



新增筛选条件的影响 -- 01.17



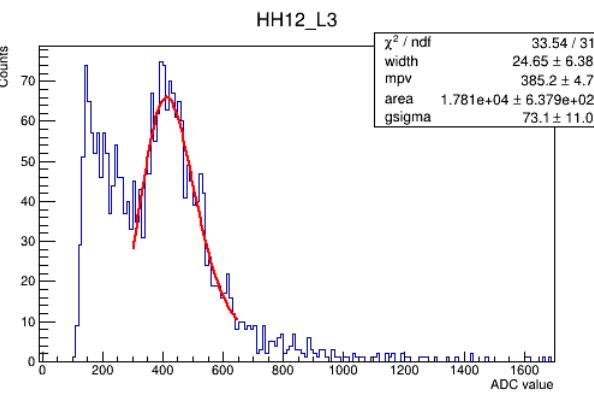
Result -- 12.18 ~ 01.31



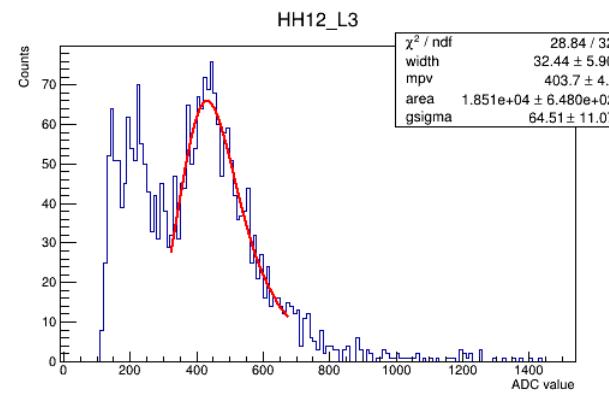
台基非常稳定，气温较低时 MIPs 值会明显变大(?)

MIPs fit -- HH12 channel

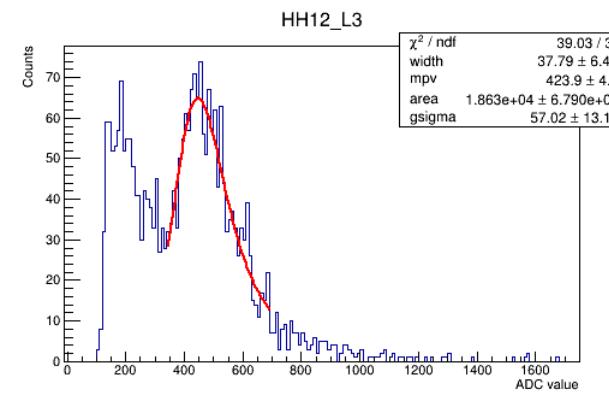
01.17



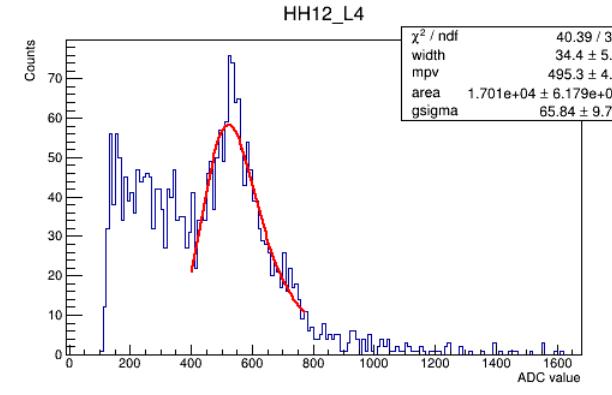
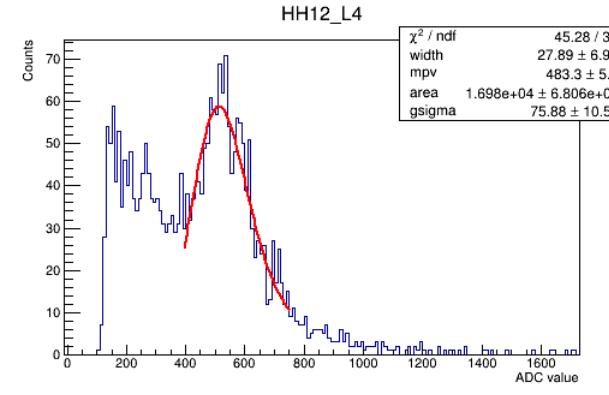
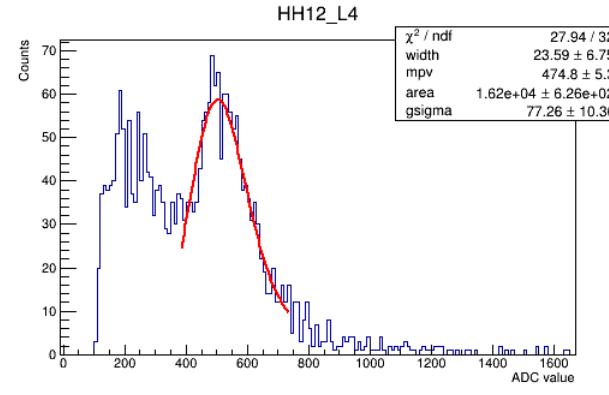
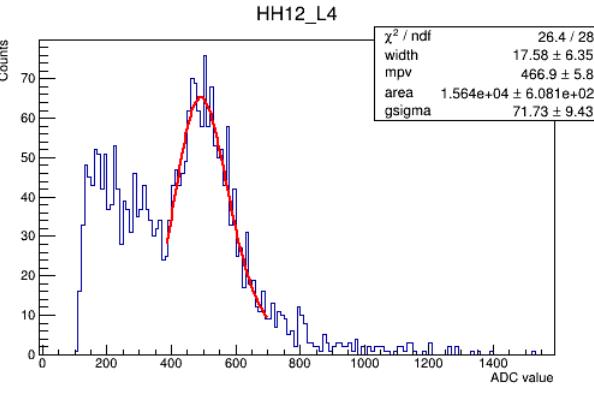
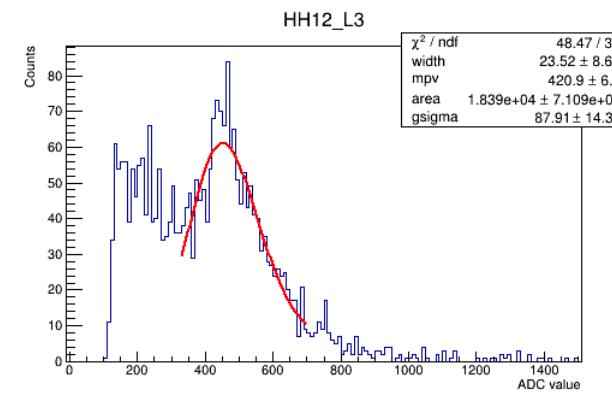
01.18



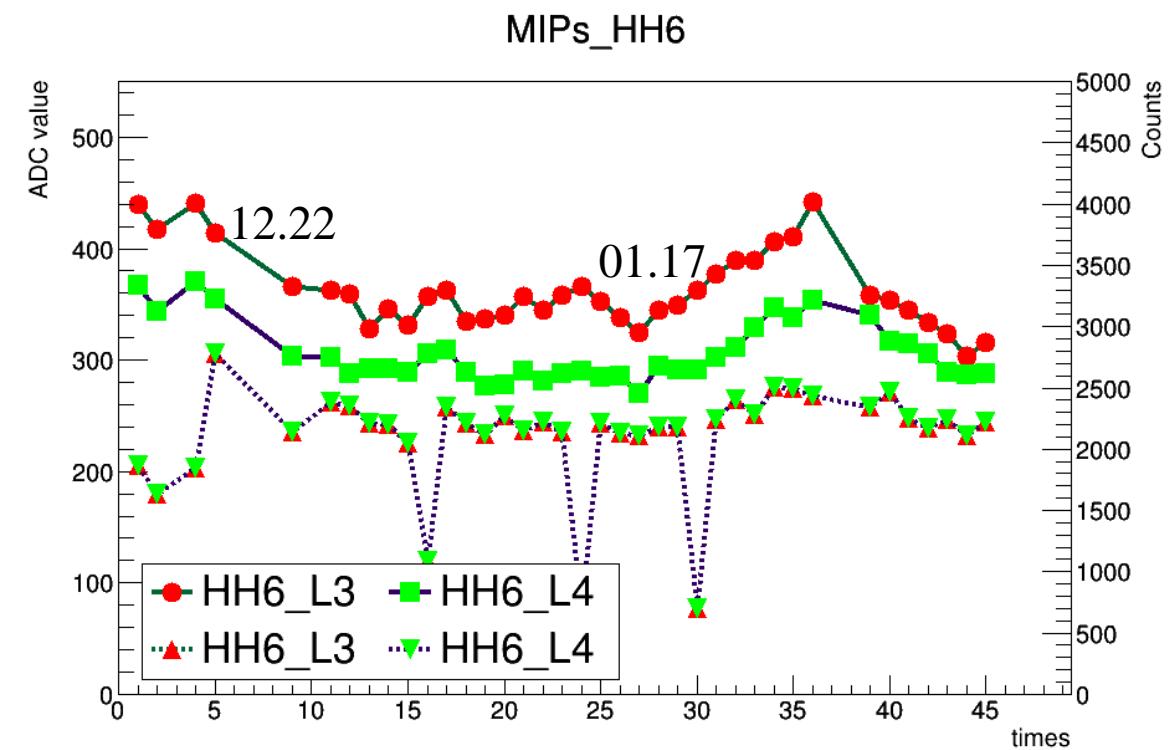
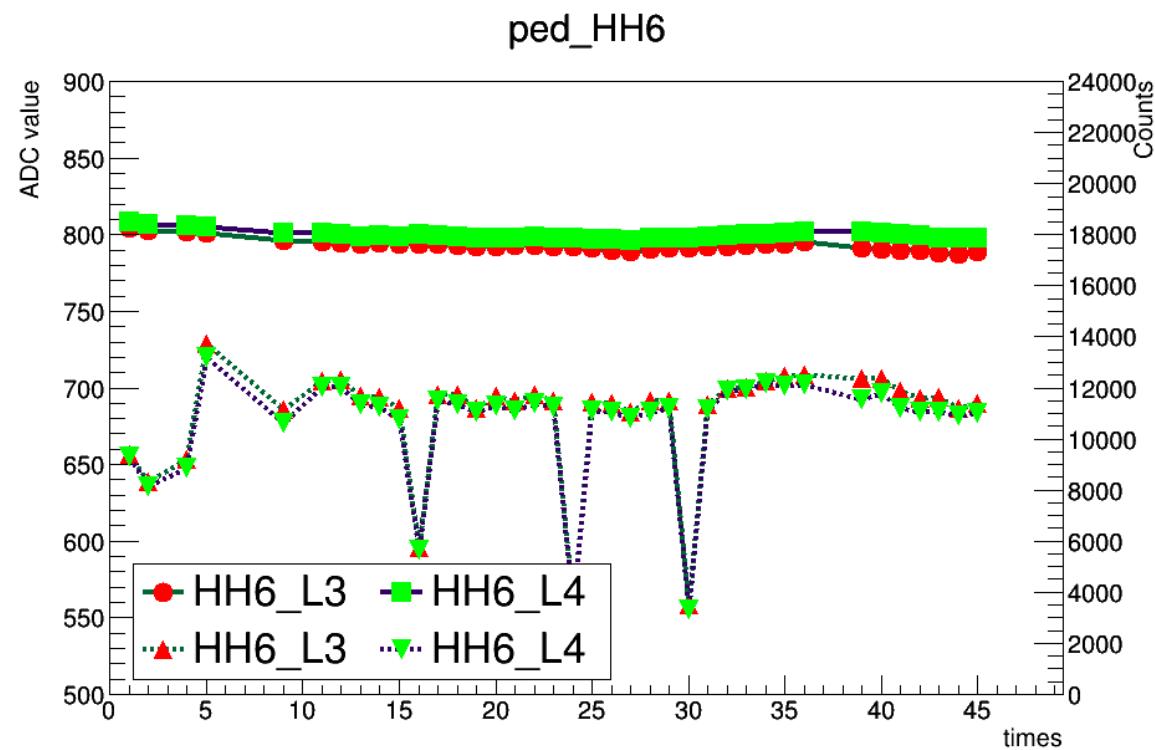
01.19



01.20



Result 12.18 ~ 01.31



Result 12.18 ~ 01.31

