

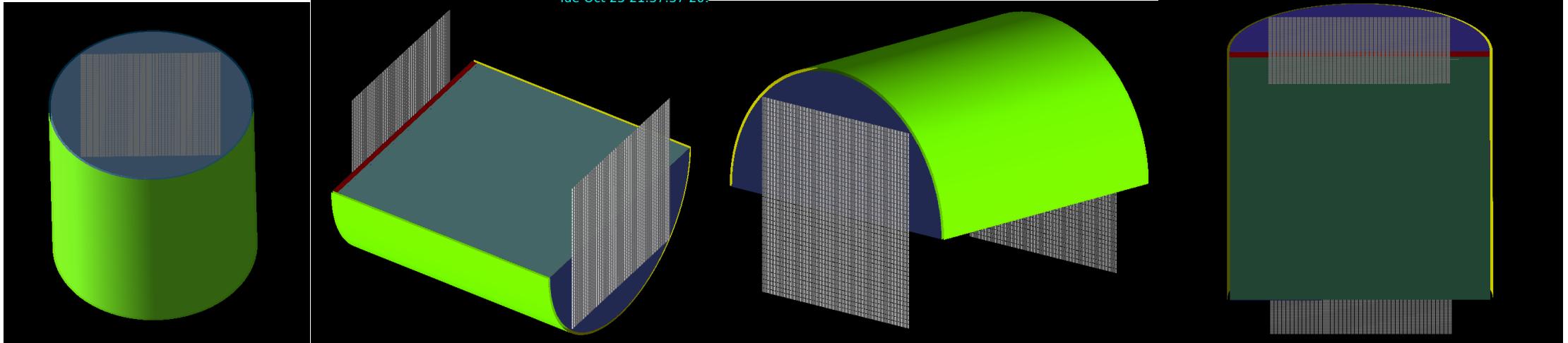
信号模拟

杨卫华

北卫

2018.10

探测器结构

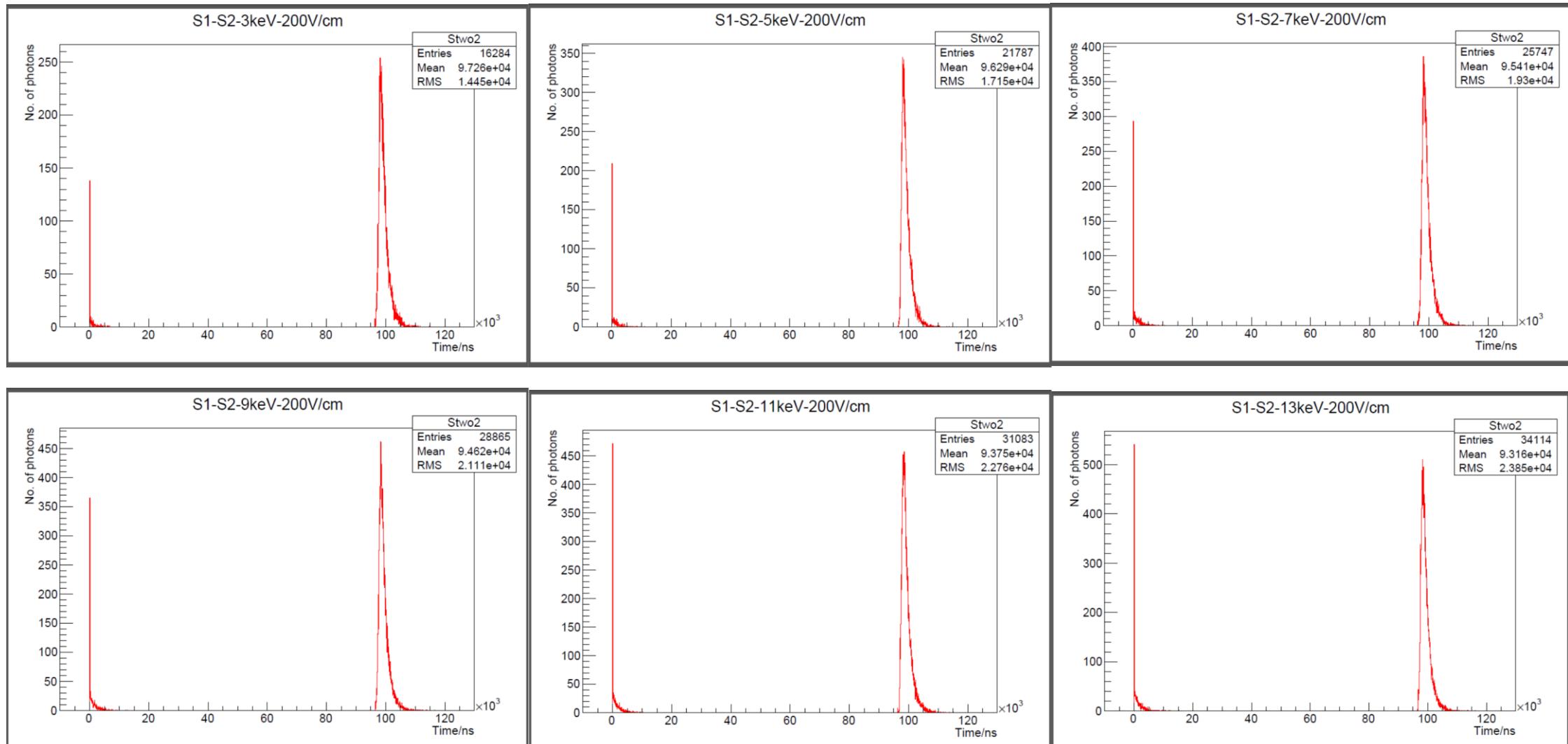


d=45cm;
LAr_h=45cm;
GasPocked_h=1cm;
mLAr=100kg.

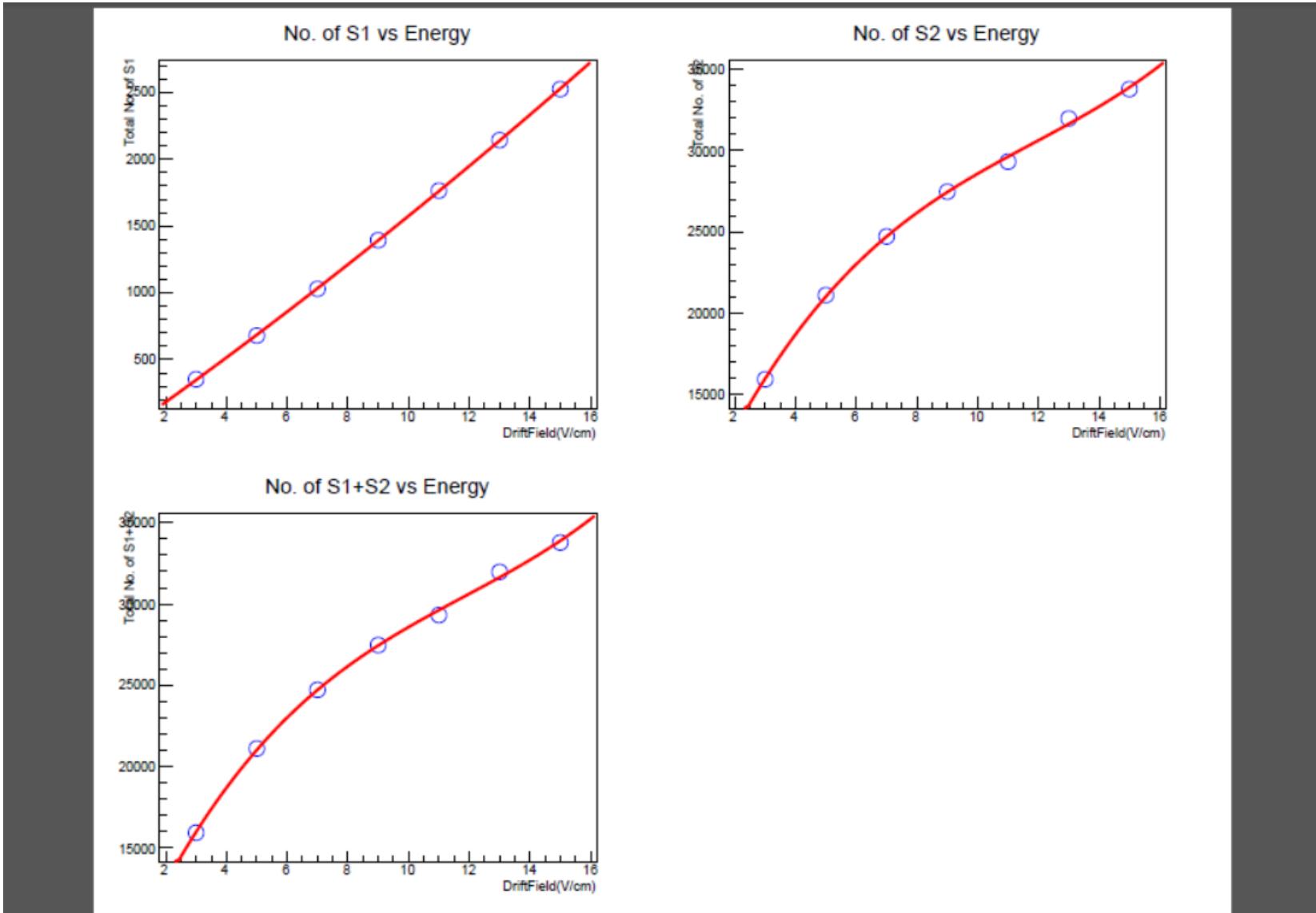
SiPM: 2x(45x45)=4050;
Sipm: 6mm*6mm

占比: 45.8%, 15.3%

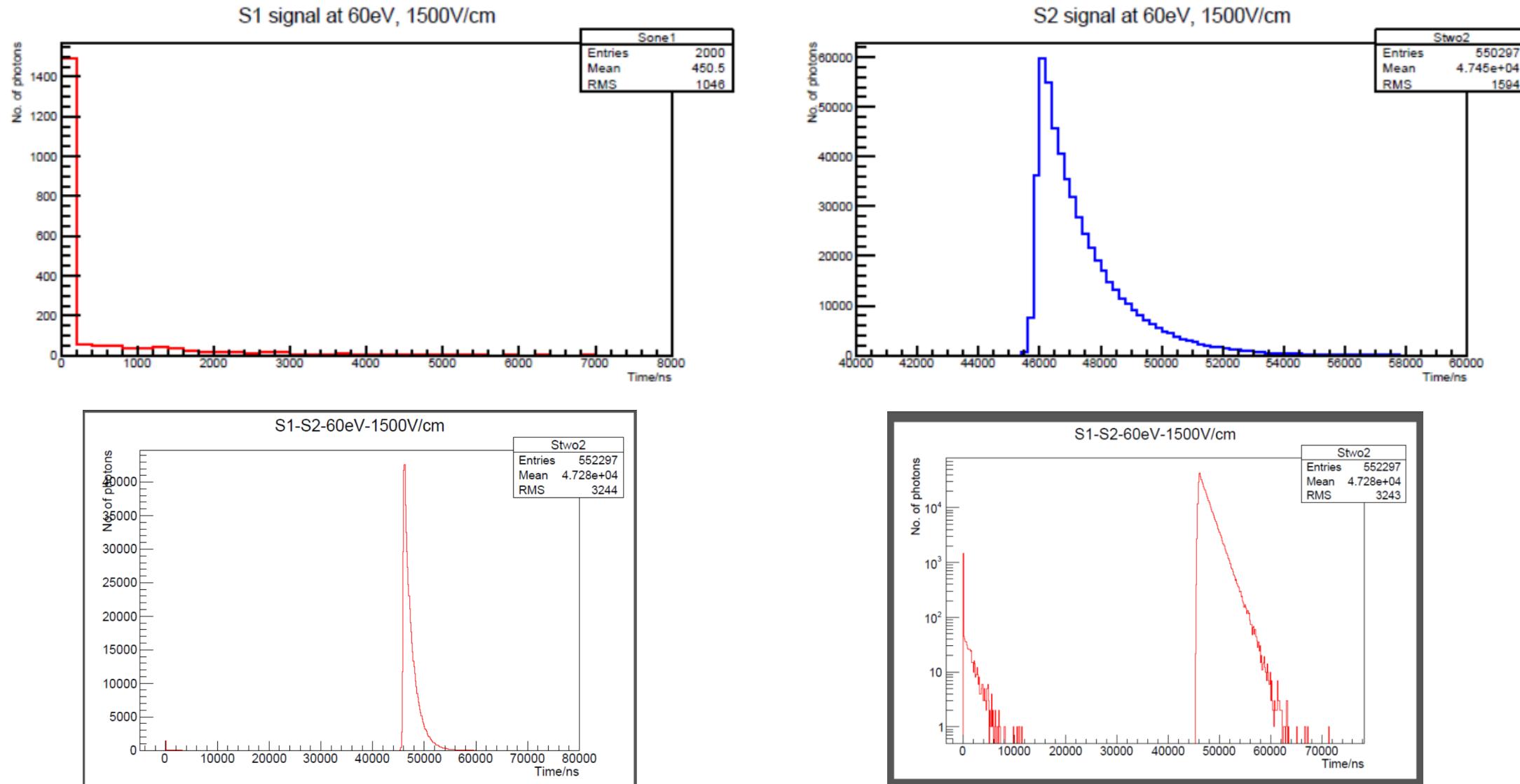
光信号随电子能量的变化



光信号随电子能量的变化

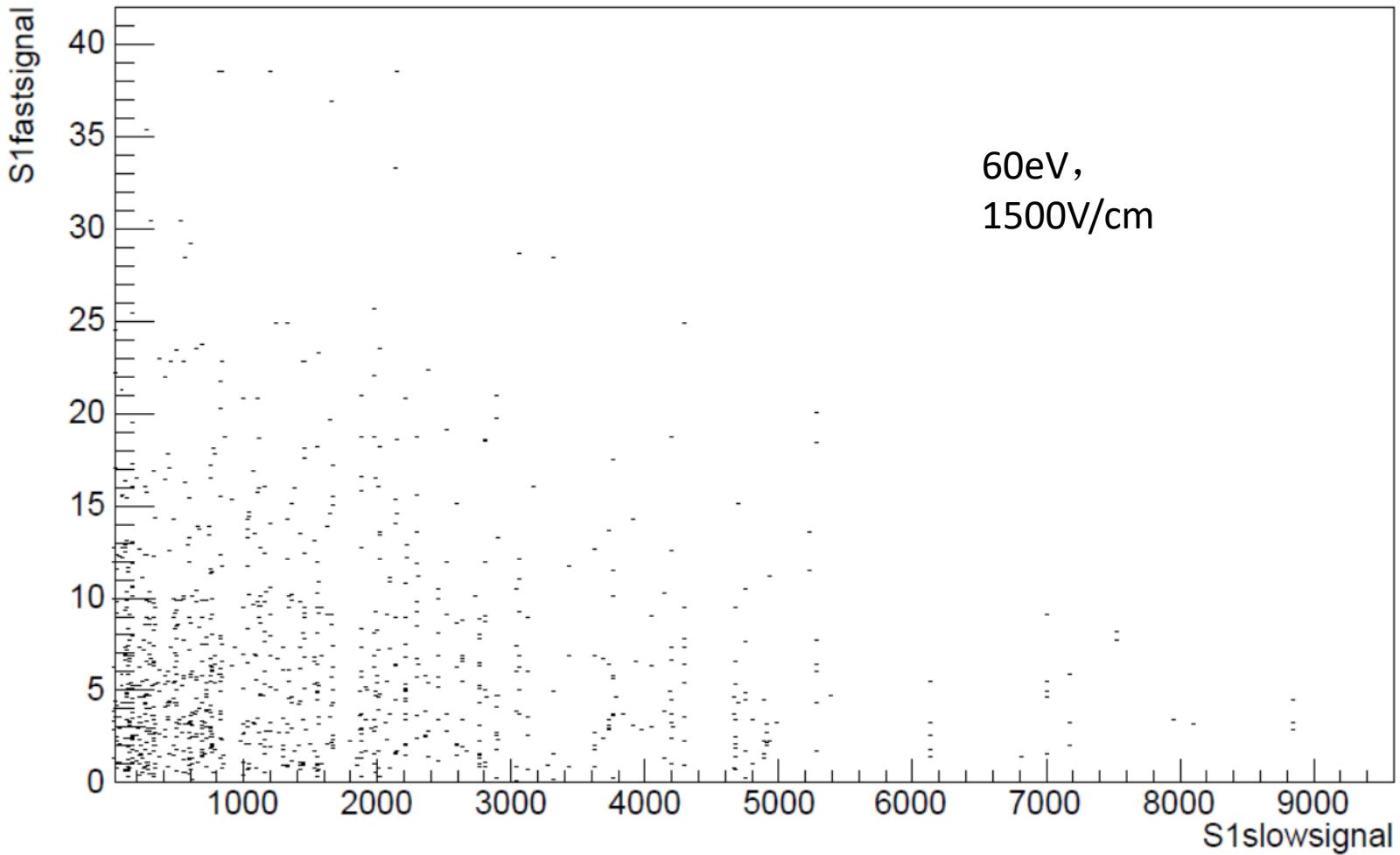


光信号随电子能量的变化

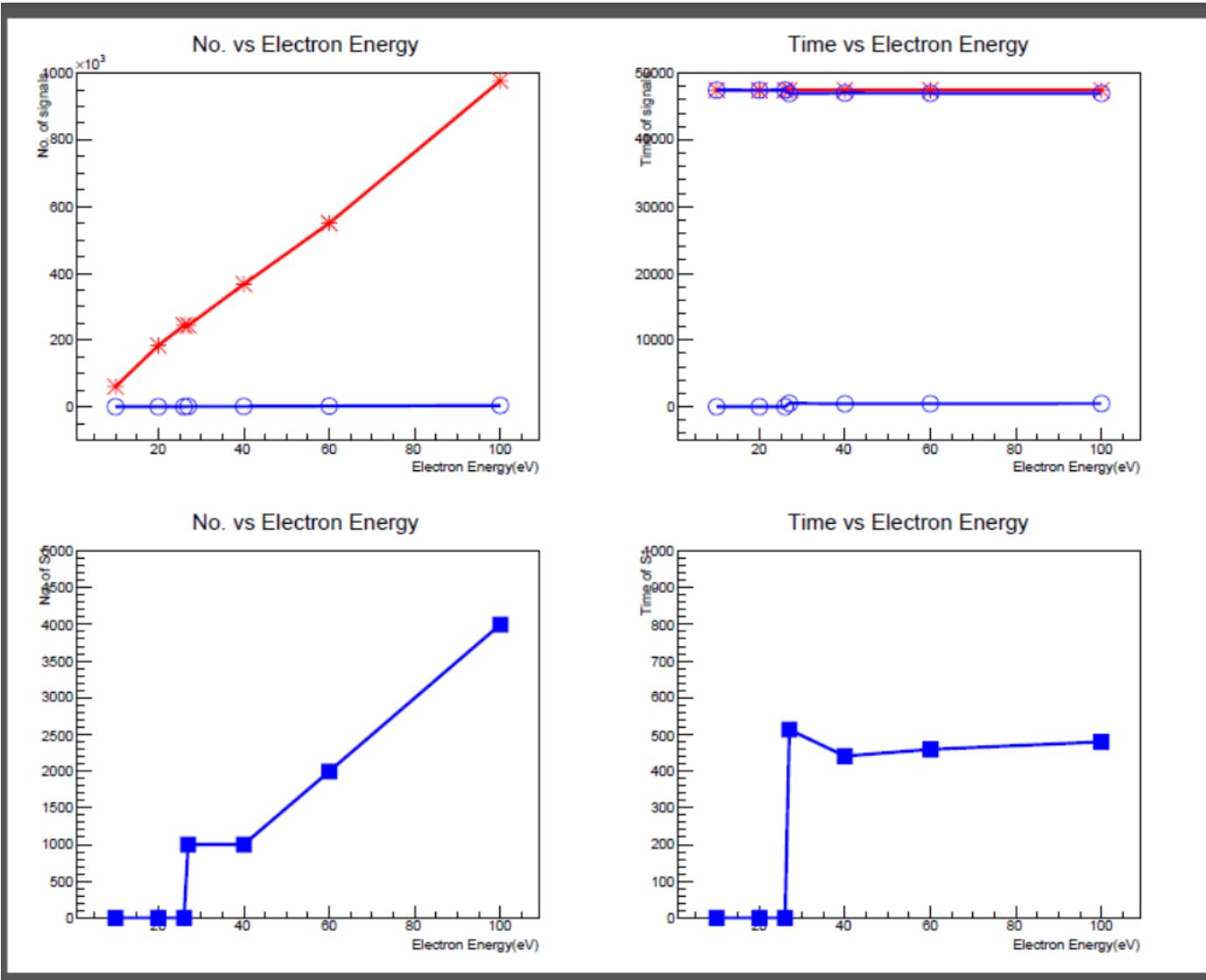


光信号随电子能量的变化

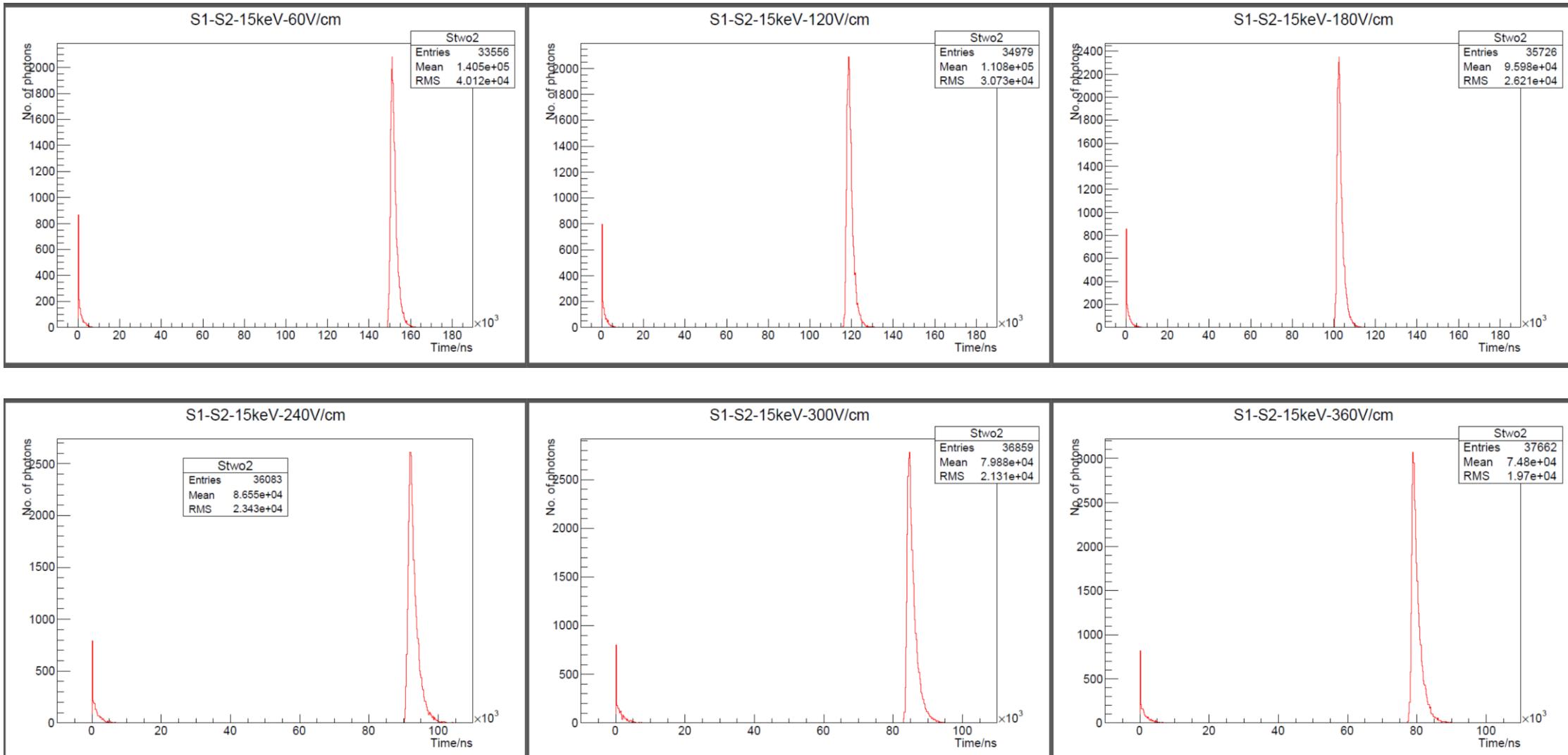
S1fastsignal:S1slowsignal



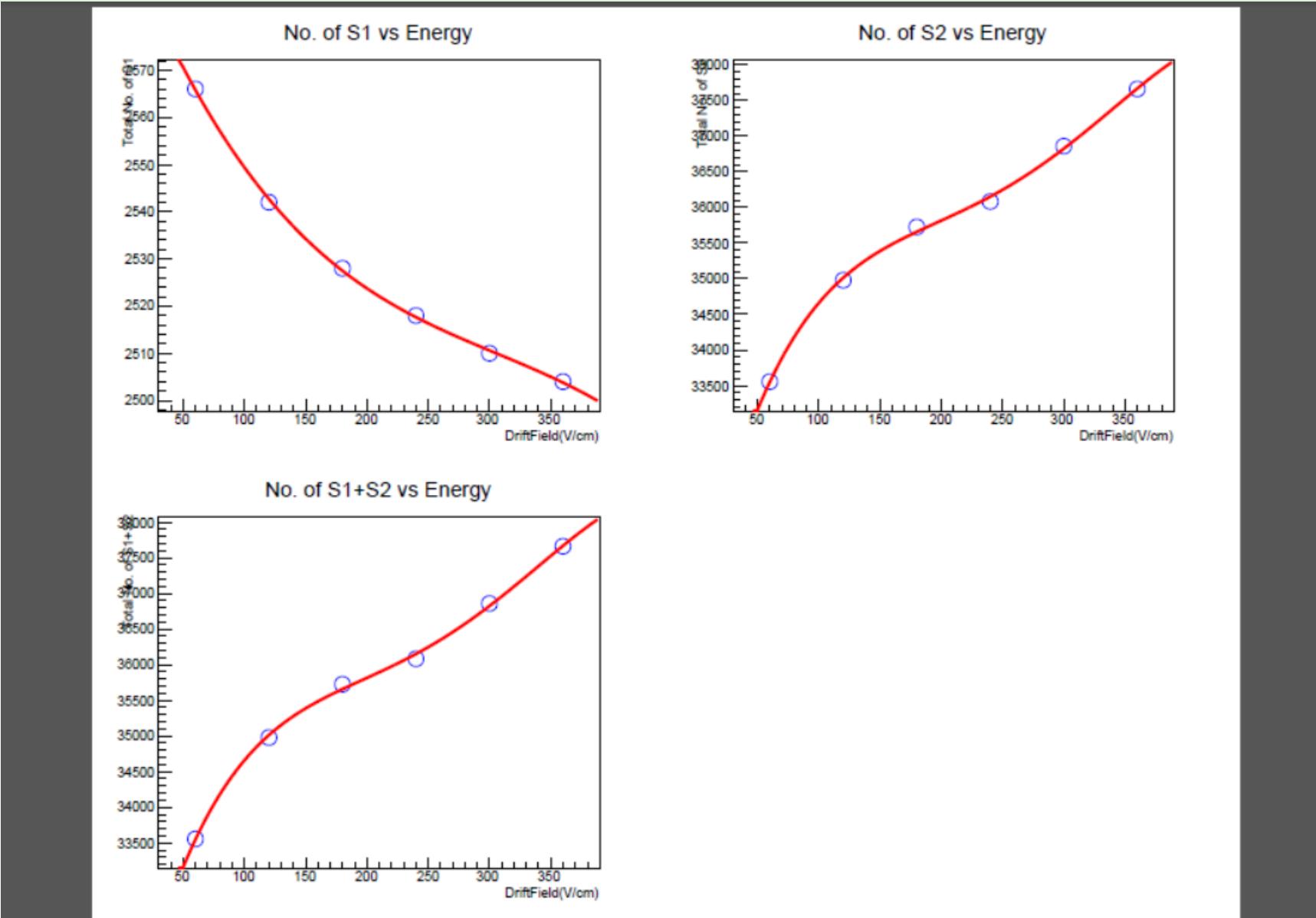
光信号随电子能量的变化



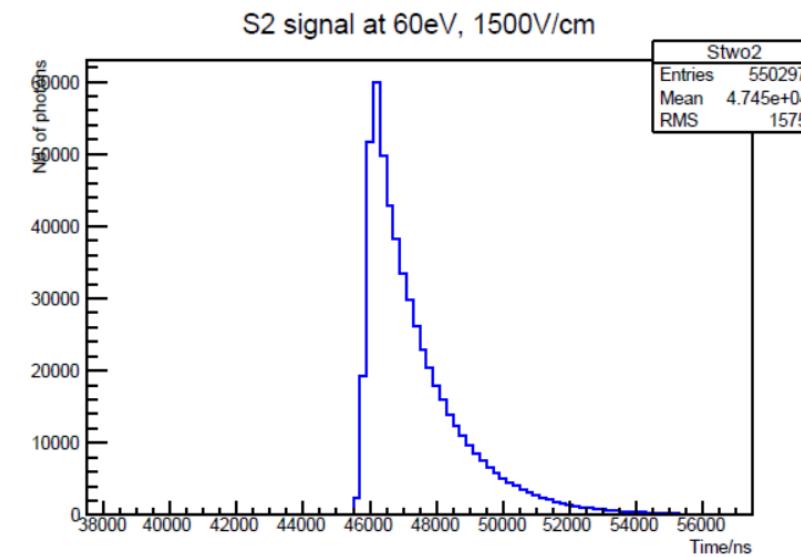
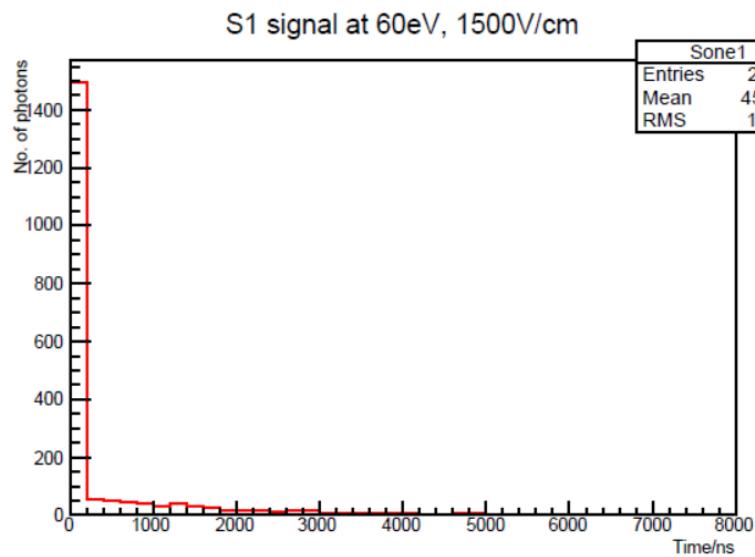
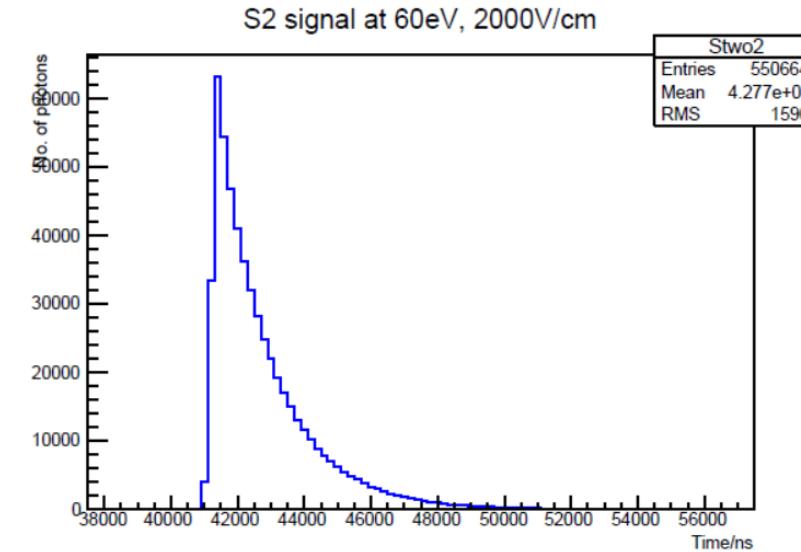
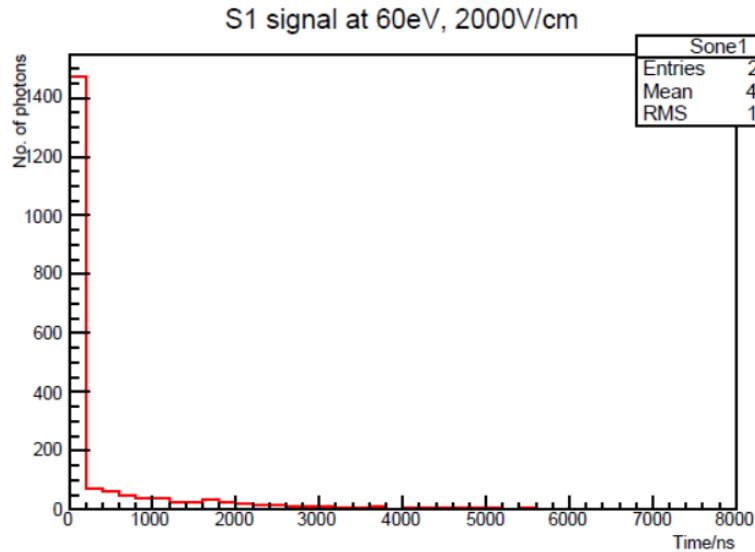
光信号随漂移电场的变化



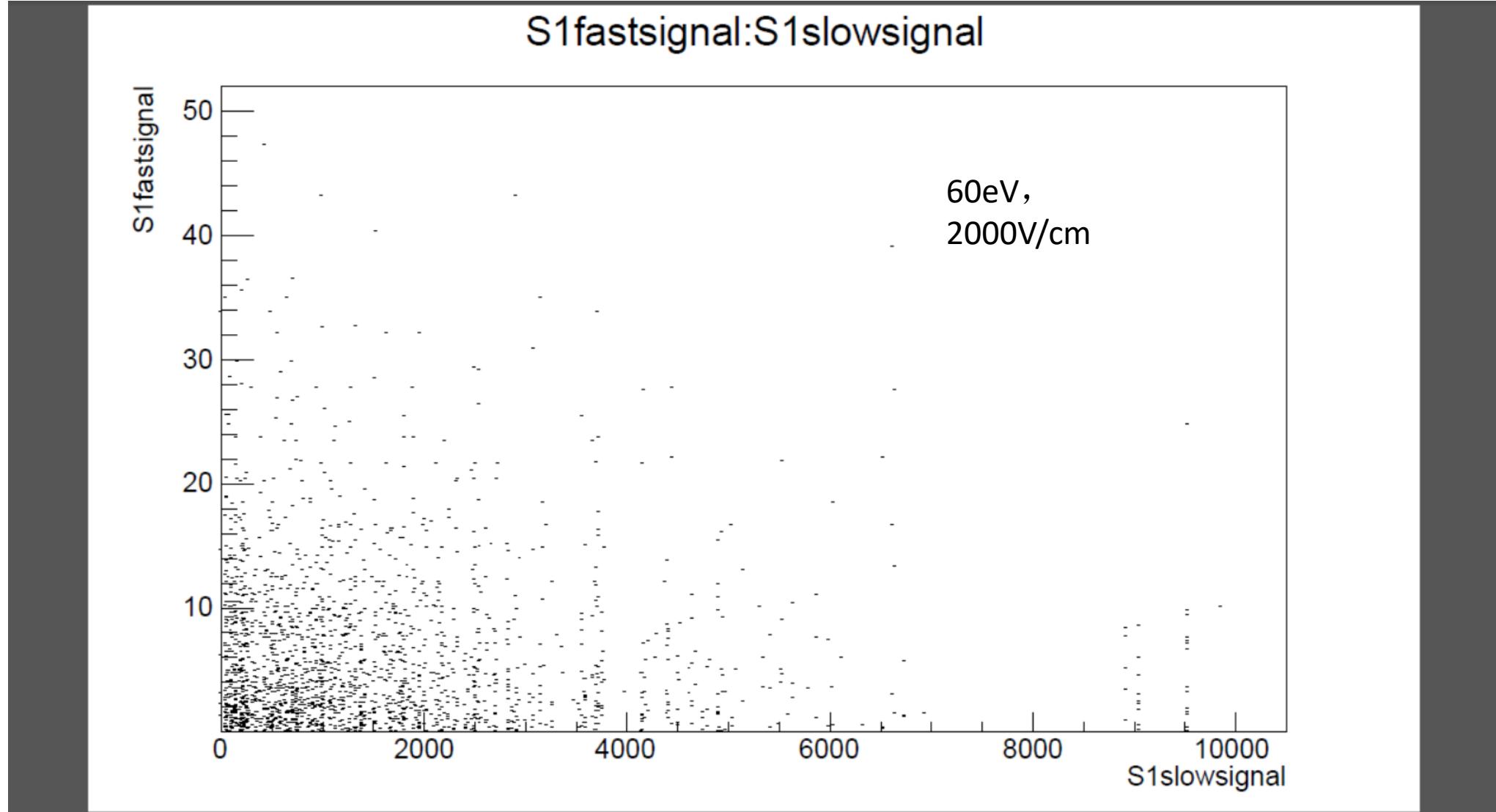
光信号随漂移电场的变化



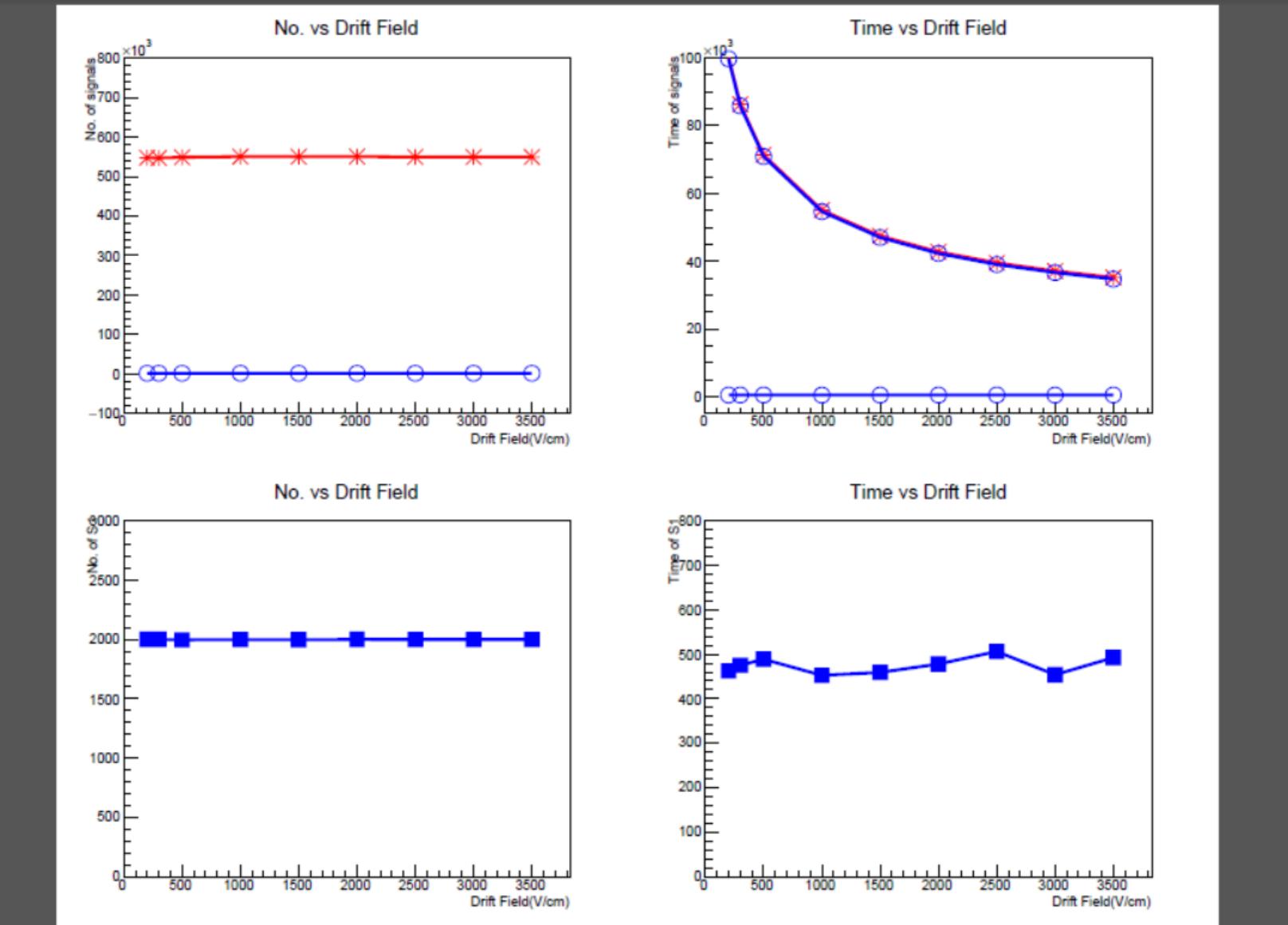
光信号随漂移电场的变化



光信号随漂移电场的变化



光信号随漂移电场的变化



下一步计划

- SiPM 结构和材料的模拟；
- 考虑量子效率对信号的影响；
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