One layer ToF
R= 1800 mm
H～5800mm

Module

From：付金煜 魏巍，严熊波

| | LGAD | | PCB | | ASIC | | 一级汇总、供电 | | 柔性板 |
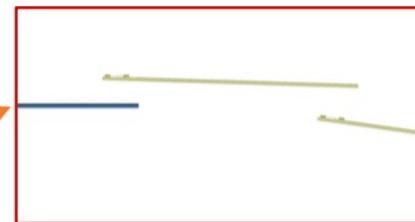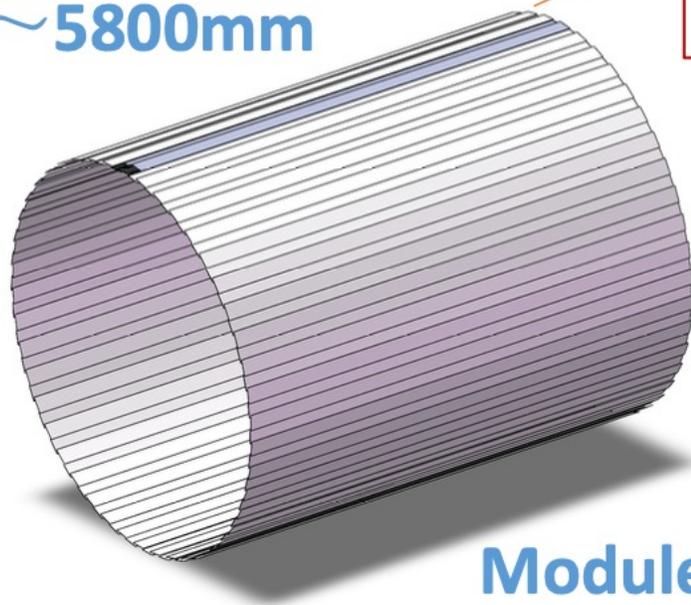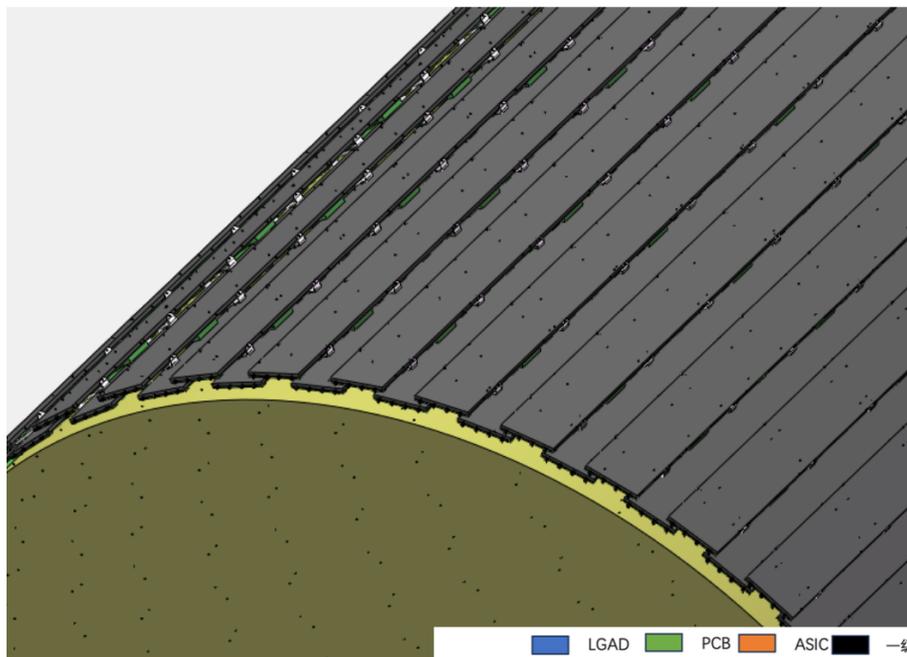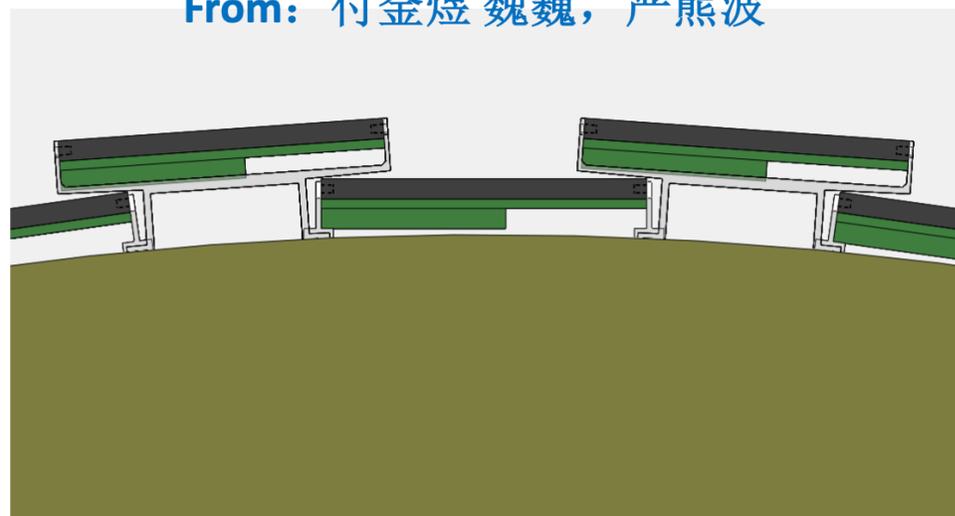
Thickness of electronics + sensor:
25 mm -> 15.1 mm
Total thickness of ToF:
85 mm -> 58 mm
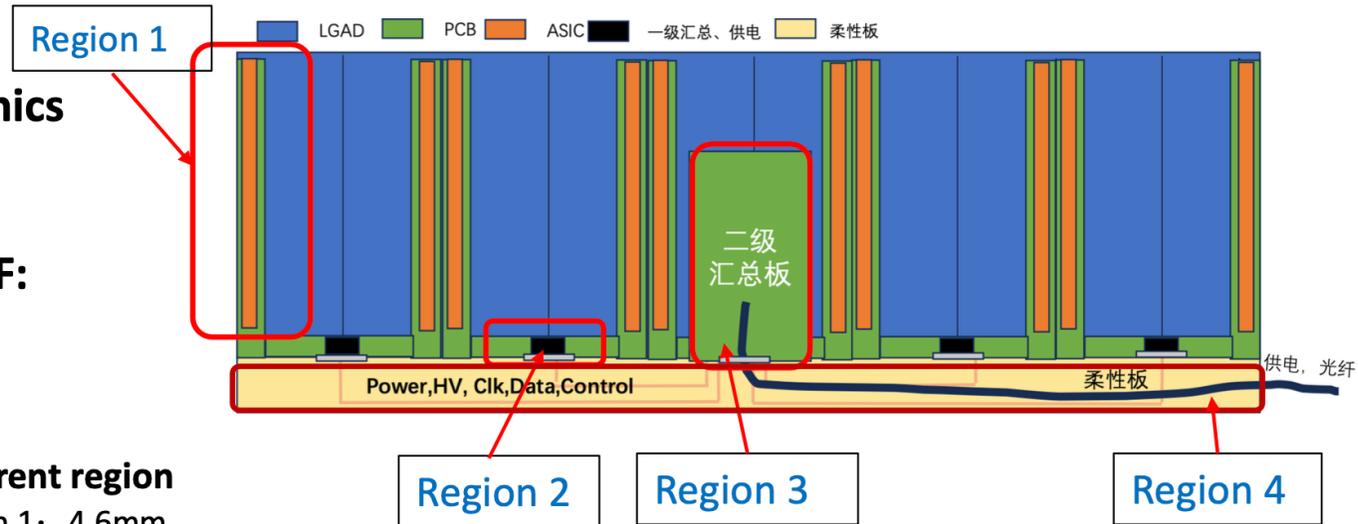
Detail thicknesses of different region
- The thickness of the region 1：4.6mm
  - ✓ PCB：1.6 mm
  - ✓ ASIC：3 mm
- The thickness of the region 2:
  - ✓ 一级汇总供电：3 mm
  - ✓ PCB：1.6 mm
- The thickness of the region 3：**14.6 mm**
  - ✓ 电源模块：6 mm
  - ✓ 光电复合电缆：5mm
  - ✓ 弯折走线空间：2mm
  - ✓ PCB：1.6 mm
- The thickness of the region 4：6 mm
 - ✓ 柔性板厚度：1 mm
  - ✓ 二级汇总电缆：5 mm（高低压供电，光纤）

Region 1

| LGAD | PCB | ASIC | 一级汇总、供电 | 柔性板 |

二级
汇总板

Power,HV, Clk,Data,Control

柔性板

供电，光纤

Region 1

Region 2

Region 3

Region 4

Region 1

FLEX cable

ASIC

Wire bonding

PCB

AC-LGAD

Carbon fiber board

Y

Z
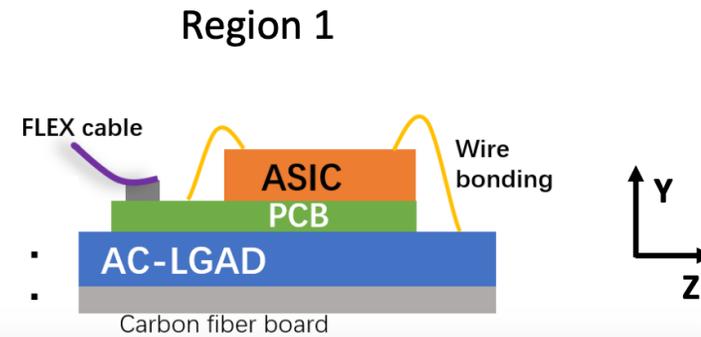
Region 4 is ok

TOFCollection.position.x:TOFCollection.position.y
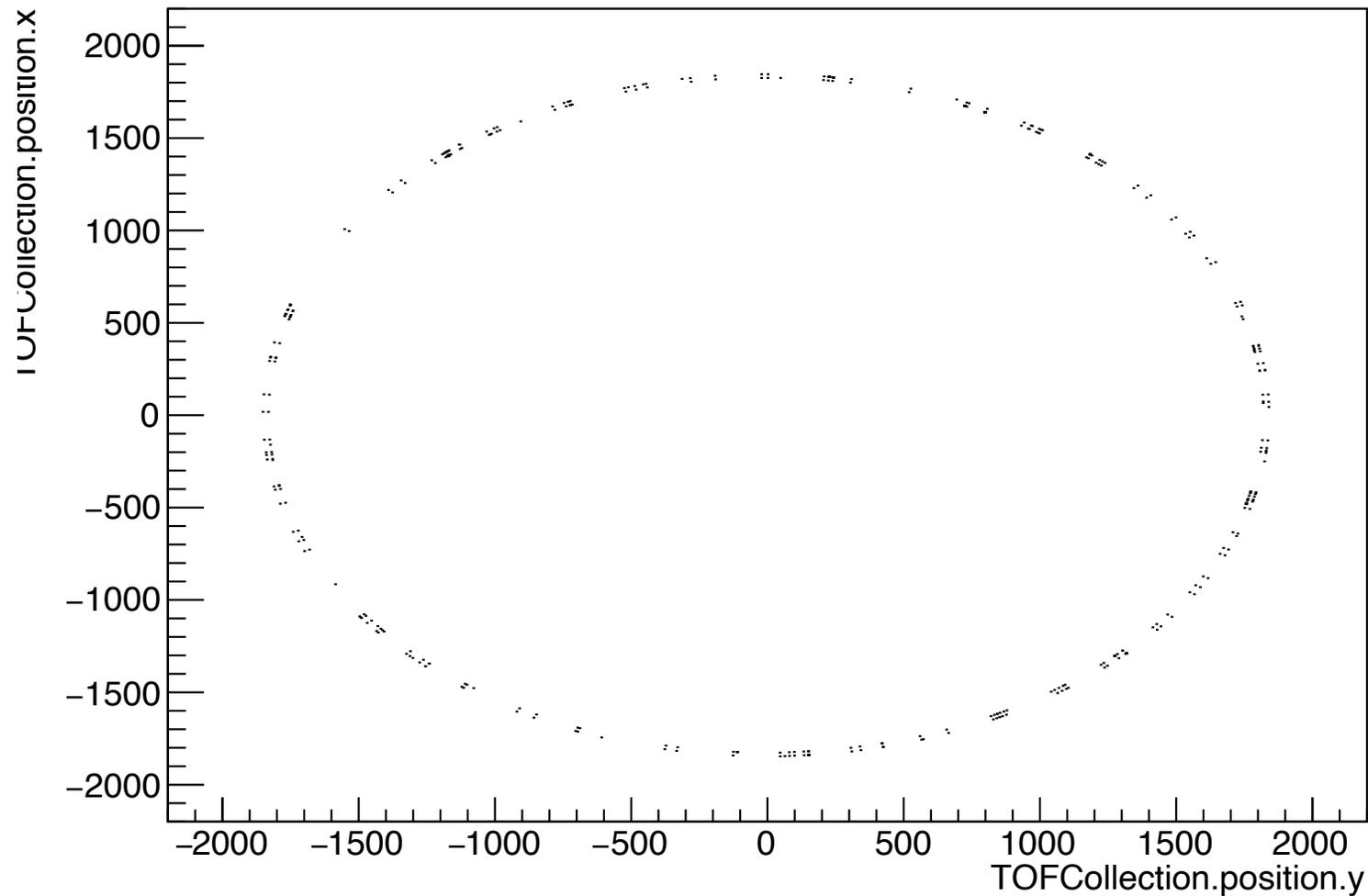
Finish region1~3

Optimize cable alignment