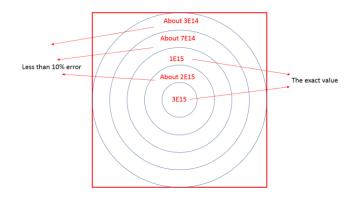
100MeV Proton irradiation update

Tan Yuhang tanyuhang@ihep.ac.cn 2019.6.20

Try glue and gel remover:



Glued

- > We need to stick the sensor on the plate
- > The process is difficult to operate
- ➤ Result: gel remover may damage the sensor and will generate some crystal



Soak with gel remover

A suggestion for replacing glue: Vacuum adsorption box

- ➤ When the sensor is placed, it will be stuck
- ➤ When the bottom is sucked into a vacuum, the sensor can be easily removed
- ➤ Next, test whether it works properly under low temperature and irradiation conditions

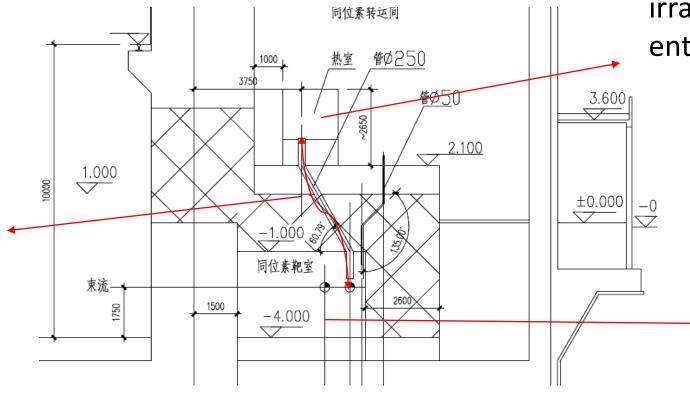




2019/6/20

Mechanical design and cooling system

1.Using a tube to pass liquid nitrogen
2.After irradiation, pull the sensor out with a rope



Experimental structure

The room can put liquid nitrogen. After irradiation, we can enter this room.



Beam position.
After irradiation,
we can't enter in
short time.



Plan

- ➤ Test vacuum adsorption box and liquid nitrogen
- > Design mechanical structure and test it

2019/6/20