



中国科学院高能物理研究所

Institute of High Energy Physics Chinese Academy of Sciences

# Introduction

Zhijun Liang

Institute of High Energy Physics ,  
Chinese Academy of Science

# Introduction

- Ryuta and Kewei gave nice talk in HGTD 3 days workshop
  - <https://indico.cern.ch/event/777732/>
  - Ryuta reported I-V for 5x5 HPK sensors.
  - Kewei report the design of LGAD sensor
- Feedback:
  - They are happy about our probe station can test in -60 °C
  - Asked us to try -40 °C
  - Hartmut suggest us to try 70um and 30um or even smaller Inter-pad gap for (2x2, 5x5) sensor in our design.
- On-going activity :
  - Liaoshan and Ryuta are testing C-V for HPK and CMN sensors this week.
  - Please consider to join this activity.

# Sensor design

- Beijing Normal University is going to provide some LGAD sensors
  - Half without packaging
  - Half of them with PCB packing
  - Aim for March 2019.
- USTC wants to join our engineering run with Tsinghua U.
  - Should check with Mei about the area in the wafer available.
- Suggestions from HongKong IAS HEP workshop
  - Try smaller pad (50um or 100um) for CEPC application
  - Single photon detection ? (gain too small for this ?)