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# Visiting plan and discussion

Huirong Qi

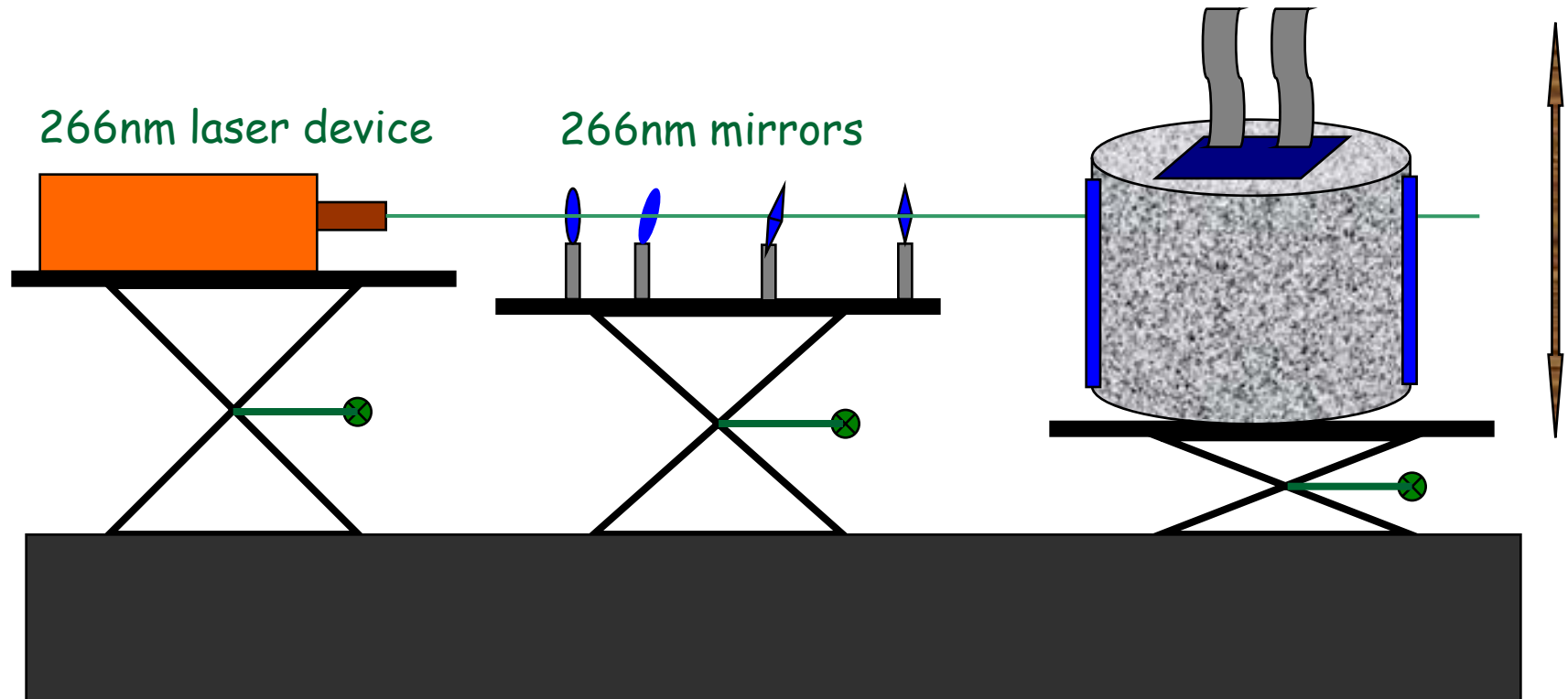
2019.03.19

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- ❑ **Update progress**
  - ❑ **Visiting plan**
  - ❑ **Discussion**

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- TPC small prototype R&D

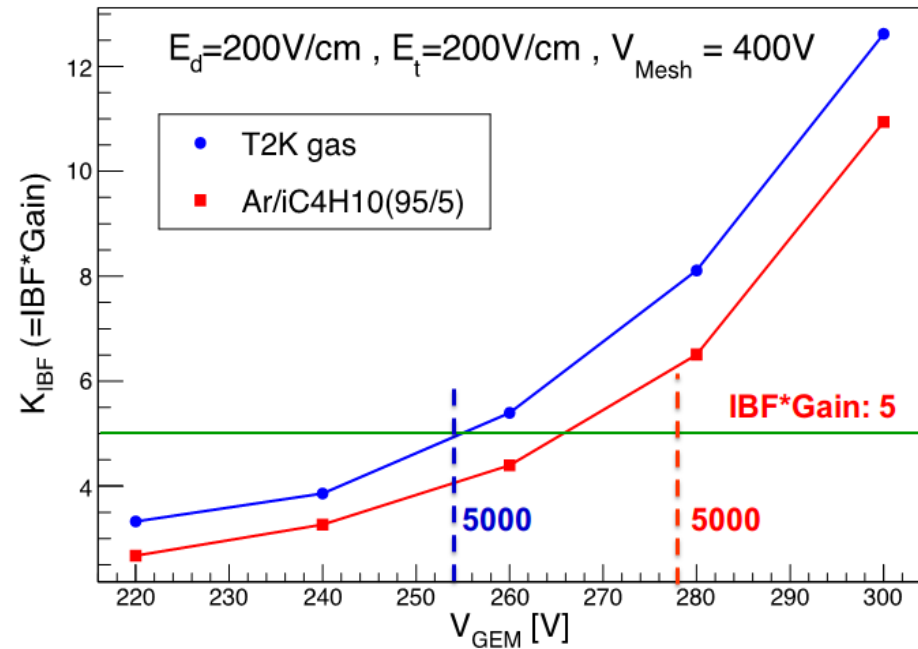
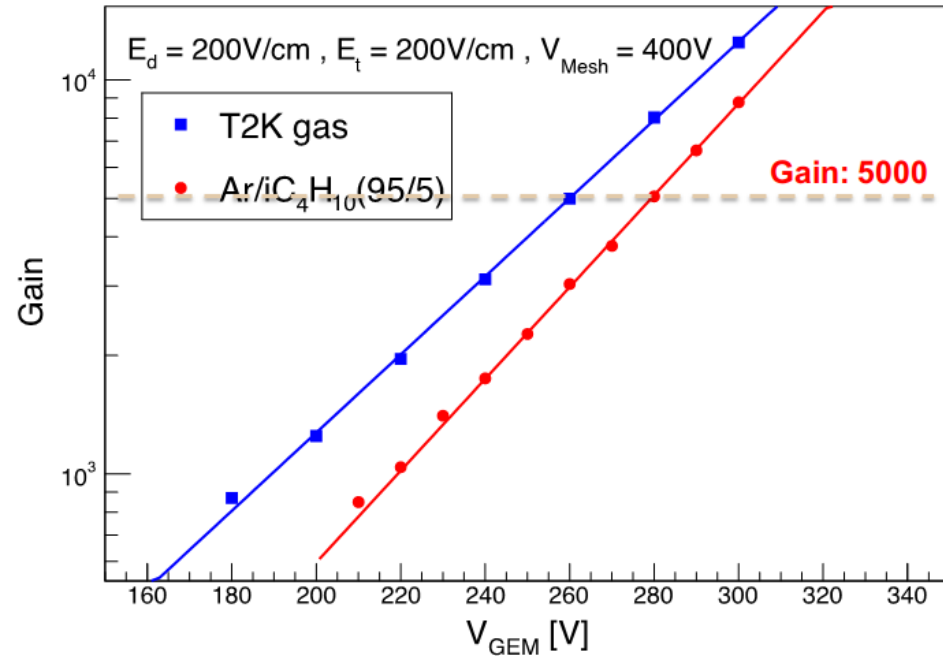
# New setup detector testing

New detector chamber



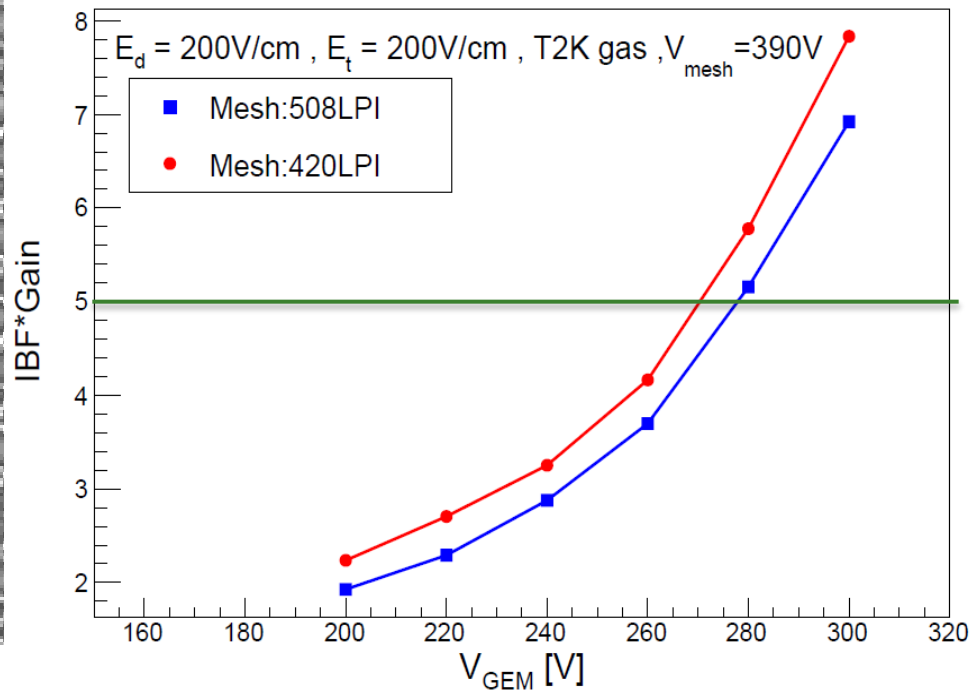
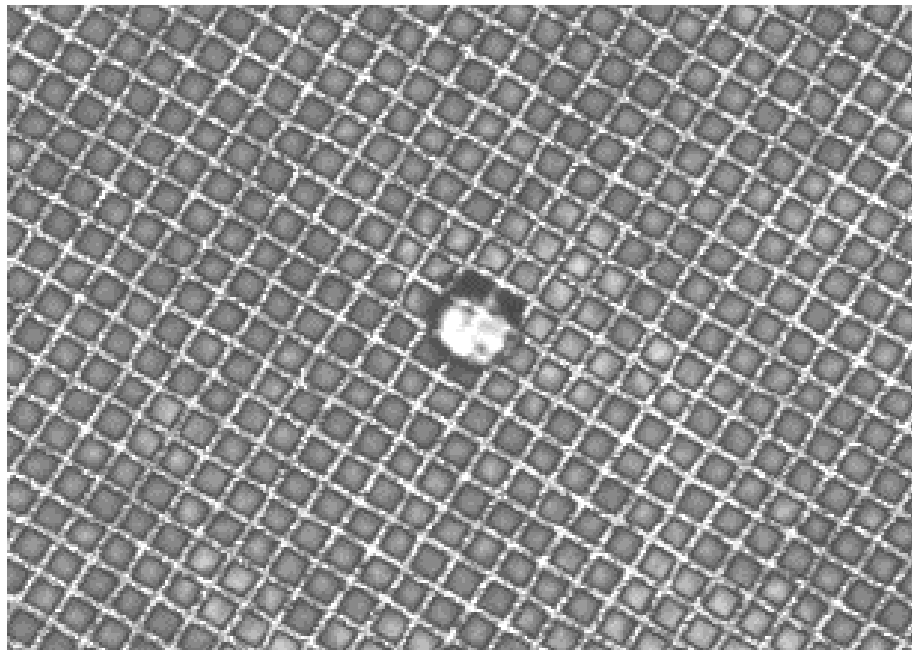
New setup detector testing using new Micromegas

# Key IBF factor: $\text{IBF} \times \text{Gain}$



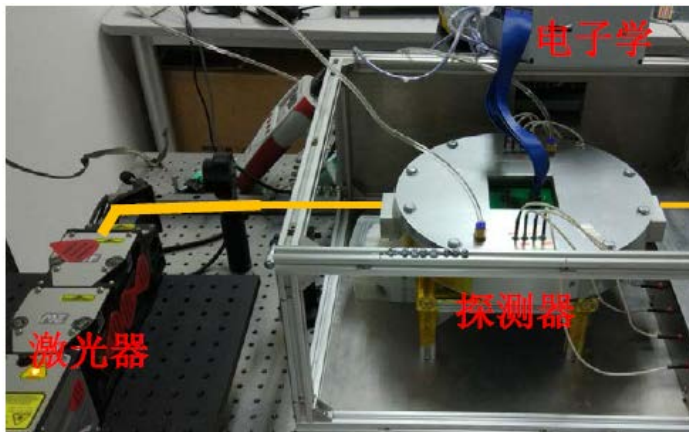
In the international review and HK conference, some professors are impressed with the progress with our GEM+MM

# High mesh and lower IBF

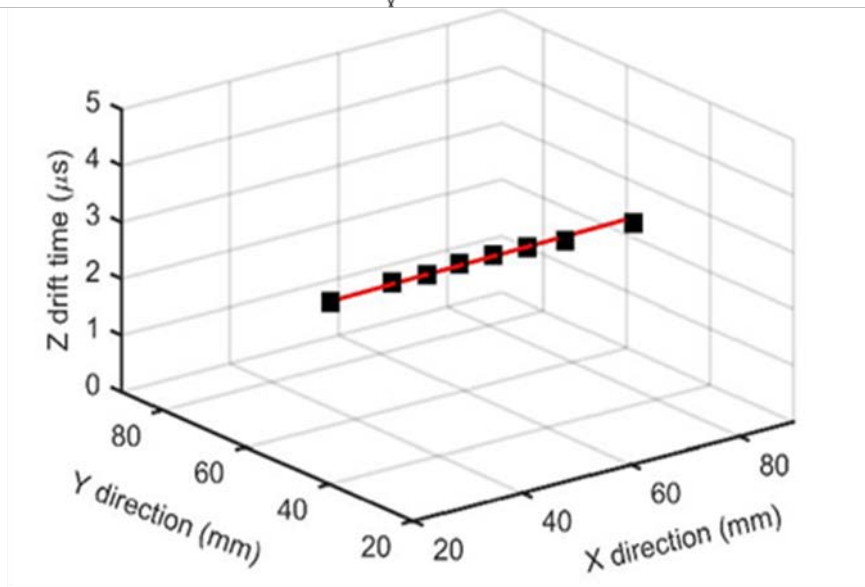
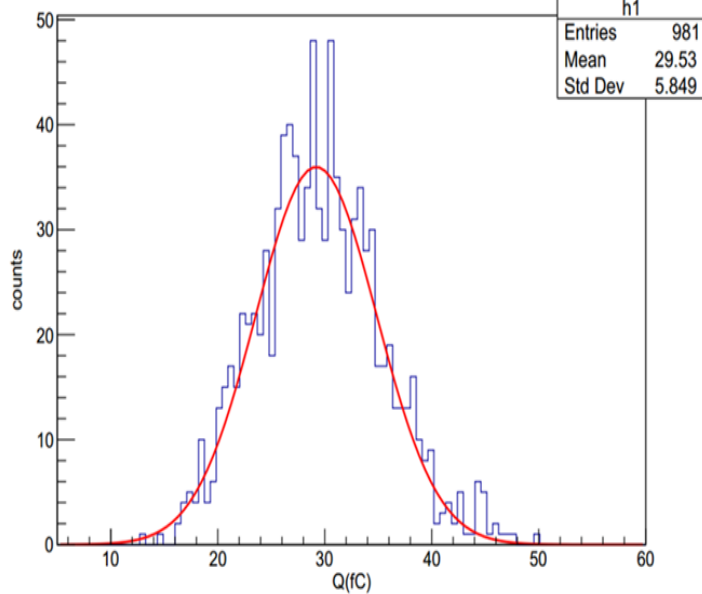
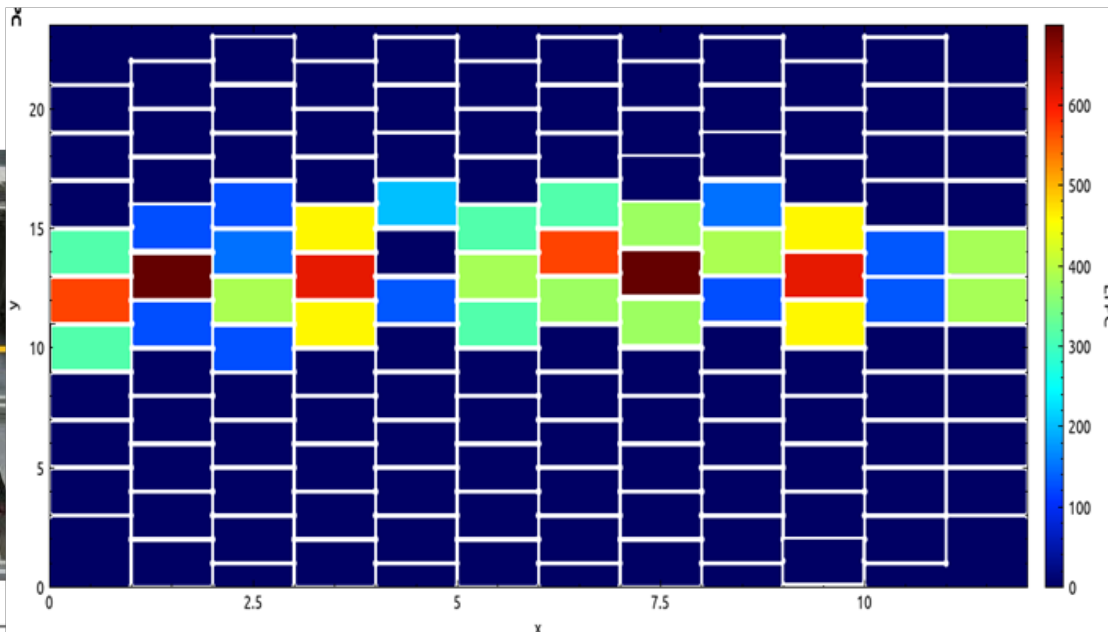


- From July, the high mesh of 508LPI has been assembled with CEA-Saclay collaboration. The preliminary results indicates that it could reach the lower IBF and better performance.

# Laser track test

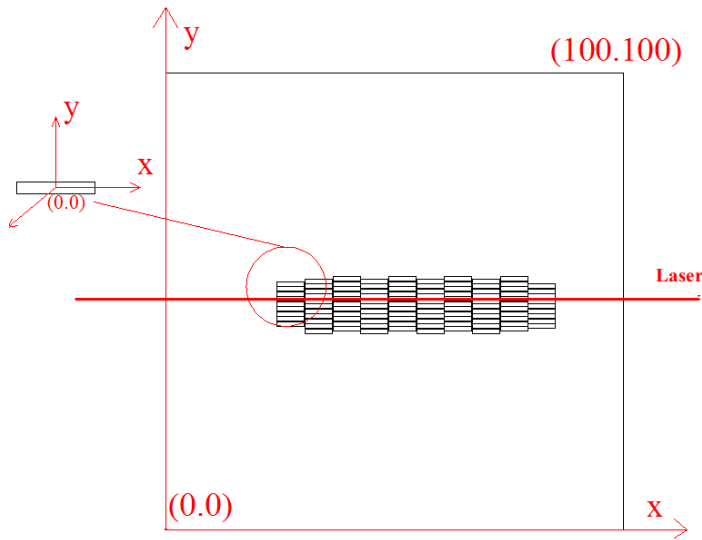


laser ionization

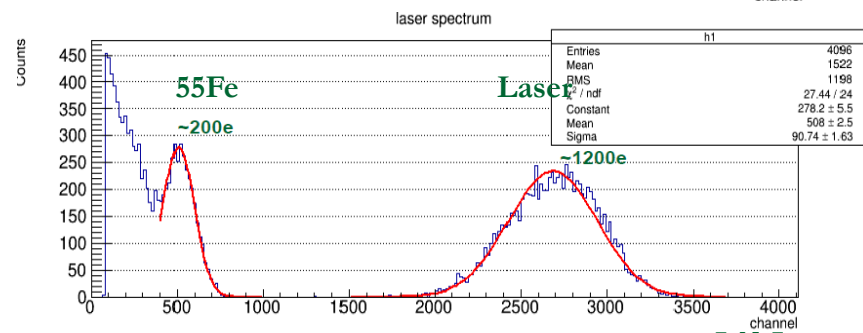
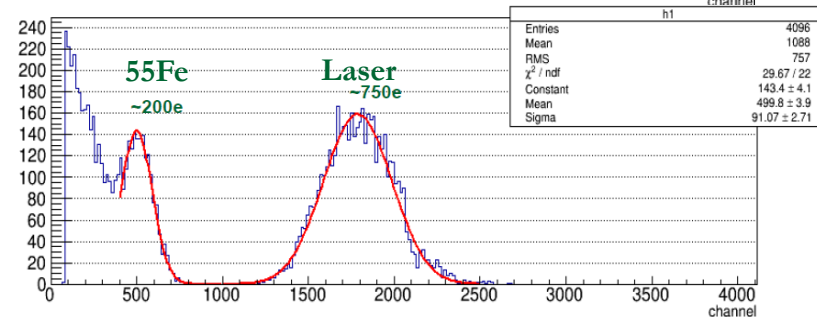
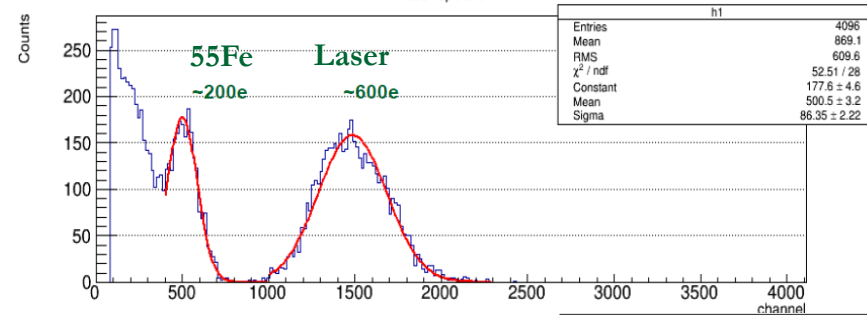
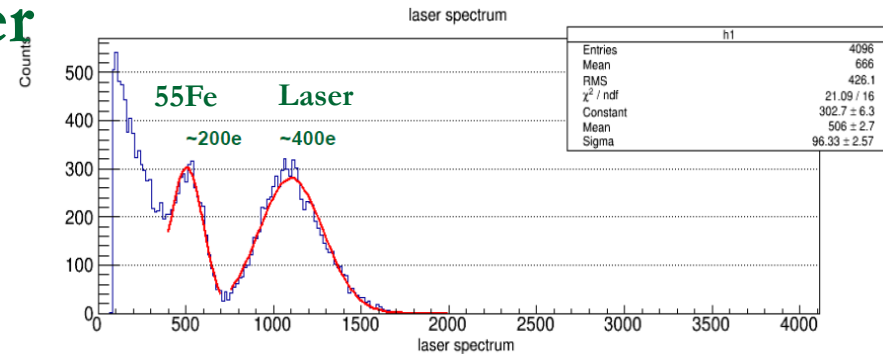


Preliminary results of Laser tracker energy spectrum and tracker

# Preliminary test with the laser



- ❑ Readout board, 128 Channels electronics, DAQ and laser mirror and PCB board have been done and assembled
- ❑ TPC barrel mount and re-mount with the Auxiliary brackets
- ❑ TPC preliminarily tested with  $^{55}\text{Fe}$  and the different power laser beam
- ❑ Optimization of the laser studied





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- Visiting plan

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# Visiting time and manpower

## ■ Huirong Qi

- 8-14, April
- 14 -18 , Attend CEPC workshop in Oxford
- Taking the cable and NEW Micromegas PCB Board
- Learning to operate the electronics and software
- Discussion the purchase and future visiting this year

## ■ Hongliang Dai

- 9-14, April
- Learning to operate the electronics and software

## ■ Jian Zhang

- 9-14, April
- The new Micromegas PCB board and discussion with Stephan

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# Confirmed some info.

## ■ Roy

- Unavailable

## ■ Stephan

- Available
- Learning to operate the electronics and software
- Every day this visiting week
  - Need your helps pick up us to CEA in bus station morning? (Near to another CEA gate bus station)
  - Need your helps pick up us to CEA in bus station afternoon?
  - Temporary office room?(Boris? Stephan?)



**Discussion and  
Looking forward to this visiting**