

Construction plan for May, June, and July
Igal Jaelge

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0/ New HV bias and resistance validation with TPC#1: two weeks

1/ TPC#1 for gas test at KEK

Use TPC#1 with current internal, external cabling, and boxes if Peter's cabling and boxes not ready. If current cablings have to be used we will need to order extra cablings and build new box for TPC#2

Before handing TPC#1 to Michael, I have to do some work on the rods and replace the anode feedthrough: half day work.

2/ TPC#2

a/ Increase the field cage to 5cm from 3cm

b/ Insert new HV bias pcb circuit inside vessel

c/ Replace all inside HV wiring

0, 1, and 2, I can do this this month by working mostly alone. From time to time, I will need extra hands (Kamalu).

3/ TPC#3 and #4 construction

Here, I will need the help of Kamalu to build:

- a/ two FCs without holes for the source holder (1 day)
- b/ HV test in air (1day)
- c/ base support plates (3 days in machine shop)
- d/ GEM spacers (3 days in machine shop)
- e/ make the inside wiring (1 day)
- f/ wire bond bridge (5 days in machine shop)

4/ Final source holder will most likely be finished in July. The holes in the rings should be done only when the source holder will be in production stage which is not the case yet.

5/ Final inside circuit will also most likely be finished in July but I think I can send a first draft next week to the manufacturer once I will test TPC#1 with the external new HV bias box. I will test it in TPC#2 without the board in a first step to see if there are no sparking.