#### FUTURE PLAN OF IP-BPM

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# Study Plan of 2012



#### Main Test List for the Low-Q IP-BPM @ 2012

- 1. Y-port electronics test (Jan.) (Complete!)
- 2. Three IP-BPM beam test at end of linac with chamber (Mar.) (Complete!)
- 3. 2nm beam position resolution full study at upstream beam line with IP-chamber (which is undecided)

What we need for the second goal? (for Low-Q IP-BPM study)

- All of Low-Q IP-BPM was fabricated.
- 3 sets of new electronics will be modified and fabricated. (not decided)
- Both reference cavity will be fabricated. (~July)
- Low-Q IP-BPM resolution study with IP-Chamber will be performed at the up-stream beam line of ATF2.
  - ADC module type is still undecided. It depend on the data saving type of ADC module. (SIS 3301 or existing ADC module).

# Ver. 2 electronics design & modify



## **Reference cavity**

#### Reference cavity(~July) & upstream chamber design will finish end of August.



X & Y REF cavity will design

#### 2nm beam position resolution study

2nm beam position resolution study will perform at extraction beam line with IP-chamber



### Summary

- □ 11cm Low-Q IP-BPM design study was done, well.
- 11cm Low-Q IP-BPM performance test was performed at the end of linac during march.
- After now, the 11cm Low-Q IP-BPM will bring to LAL to align in the IP-Chamber.
- New electronics will be modified and fabricated.
- Both reference cavities will be fabricated until July.
- 2nm resolution test will perform at the extraction beam line with IP-Chamber. (ADC module is undecided)