

KEK status

June 26, 2009

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Contents

- Finished T18 high gradient test
 - Inside will be inspected by bore scope, then ??
- Installation of quad being proceeded now → next week we want it to be evacuated in Nextef
- Fabrication of C10, CD10, T24, TD24 was finally initiated

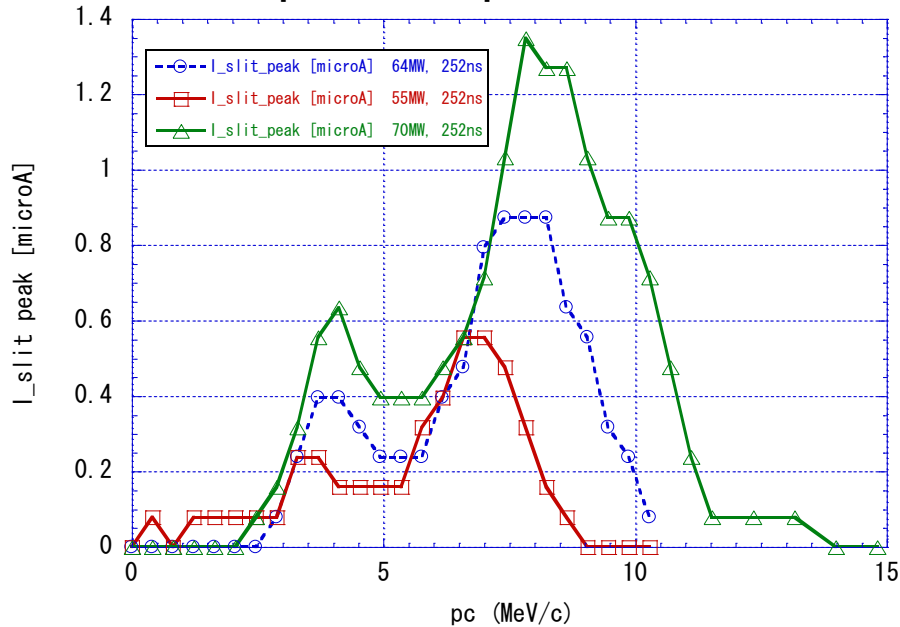
T18_VG2.4_Disk #2 finished

- Dark current spectrum re-measured.
- Breakdown rate was re-evaluated taking detailed running information to finalize the data.

Dark current spectra

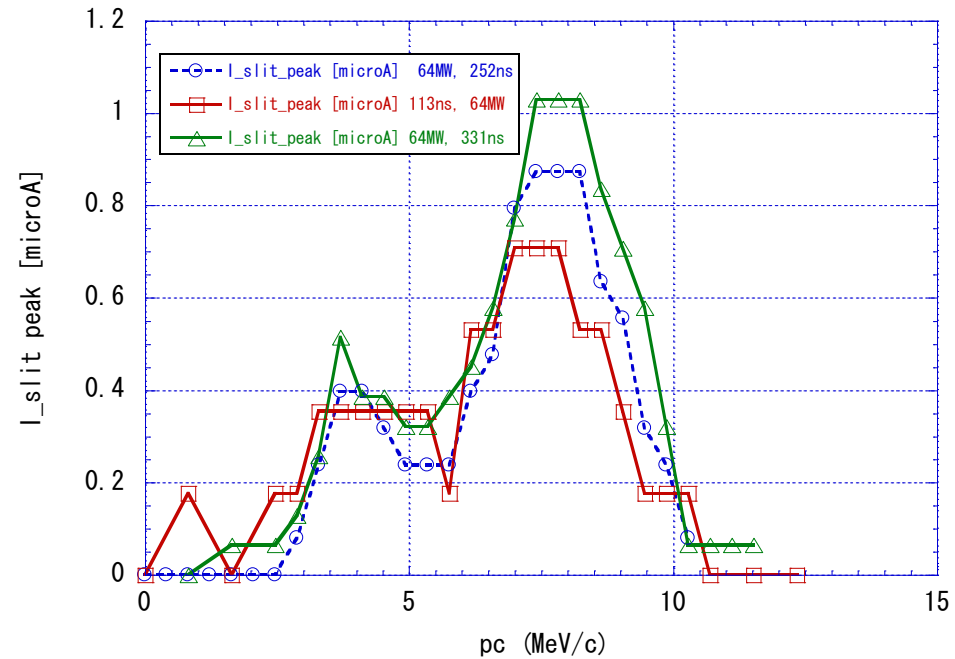
Dependence on power

T18_VG2.4_Disk #2
Spectrum_vs_power at 252ns



Dependence on width

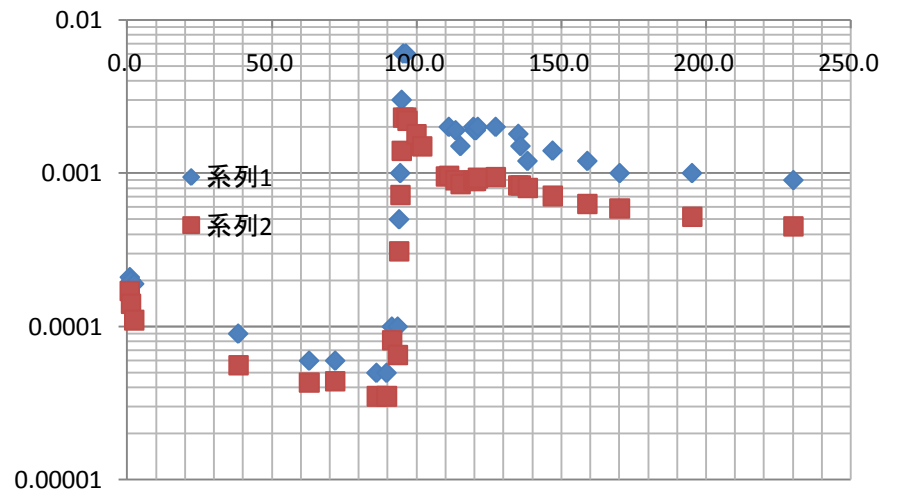
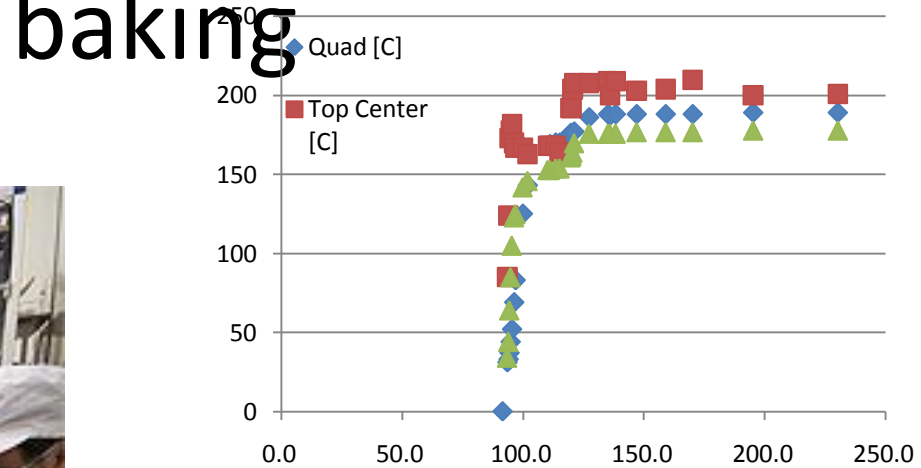
090618
T18_VG2.4_Disk #2
Spectrum_vs_Width at 64MW



Quad #5 preparation and plan

- Quad #5 into chamber
 - Installed in the vacuum chamber.
 - H-band connecting to quad was once moved by a few mm by mistake, but no change in RF matching and transmission.
 - Evacuation after baking of quad at 200C was finished. Chamber vac level $< 10^{-5}$ Pa.
- Installation to Nextef
 - Will be done next week.

Installation to chamber and as of baking



Structure fabrication status

- Drawing of C10, CD10, T24, TD24 has started.
 - We assume exactly the same cell geometry as T18 and TD18. This choice should be confirmed by SLAC.
- Discussion with our usual company, Morikawa, has started yesterday.
- The practical fabrication schedule is to be fixed in workshop at SLAC in July.

Summary

- Sorry, do not have to summarize.
- SLAC workshop discussion items
 - PC at KEK (related to KEK mission/program)
 - Actual scheduling of T24, TD24 structure fabrication
 - One-year high gradient program
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