# TD24R05 Summary(4)

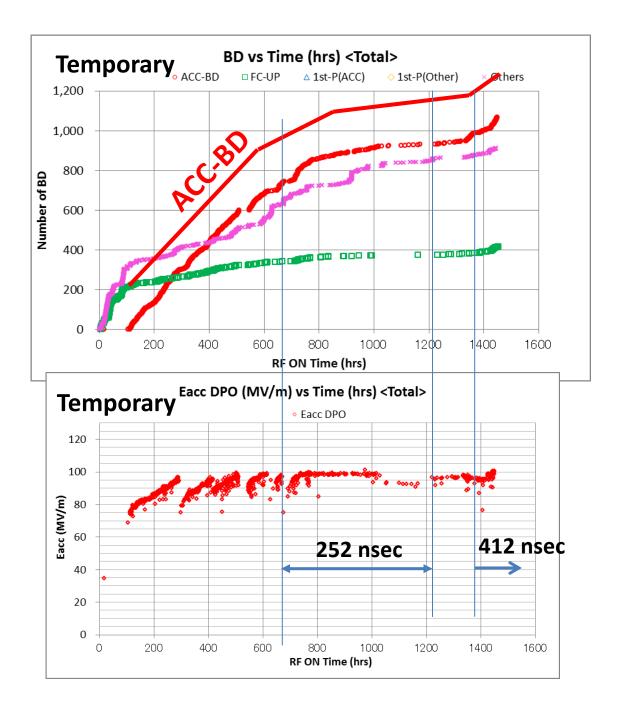
8 December 2012

T. Higo and X-band group of KEK

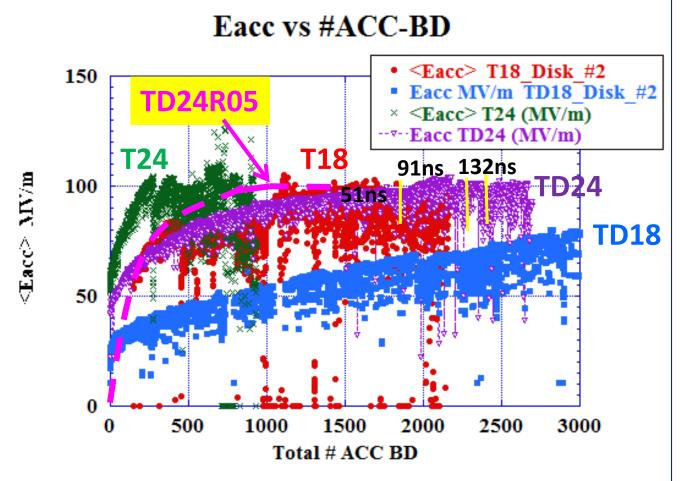
# Status of processing and breakdown characteristics until Dec. 8, 2012

- Reached 100 MV/m at 252nsec after 1000 ACC-BD's. Seems faster than TD24.
- BDR vs Eacc was measured at RF-ON time=1200 hrs. The similar BDR value as TD24 was observed.
- Pulse width was increased to 412 nsec in 200 hours.
- BDR vs width will be measured after settling at 412nsec.

# **J24R05 #4**



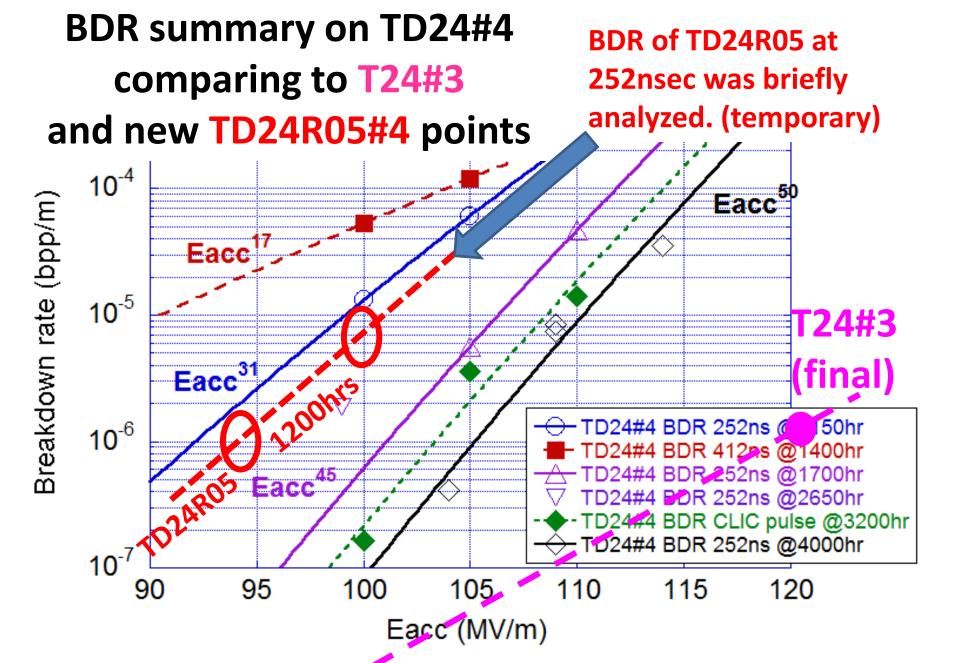
# Difference in processing speed among four+1 structures



Number if ACC-BD's until reaching the same level in (Tp, Eacc)

Speed
→T24
→TD24R05
→T18
→TD24
→TD18

Magnetic field!?!?



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## What to be studied from now

### Next program

- Evaluate BDR vs width (150-252-412) (2 weeks? Dec/10—Dec/25)
- BDR in long run at 252nsec and 95 100 MV/m (2 week? Jan/8—Jan/21)
- Higher to 110 MV/m at 252nsec (2 weeks Jan/21— Feb/4)
- BDR at 252nsec 95-100 MV/m (2 weeks Feb/4--Feb/14)

### Further specific studies

- During linac operation (Feb/14 till Mar/1)
- Intermittent operation for specific studies