

cERL Injector Cryomodule

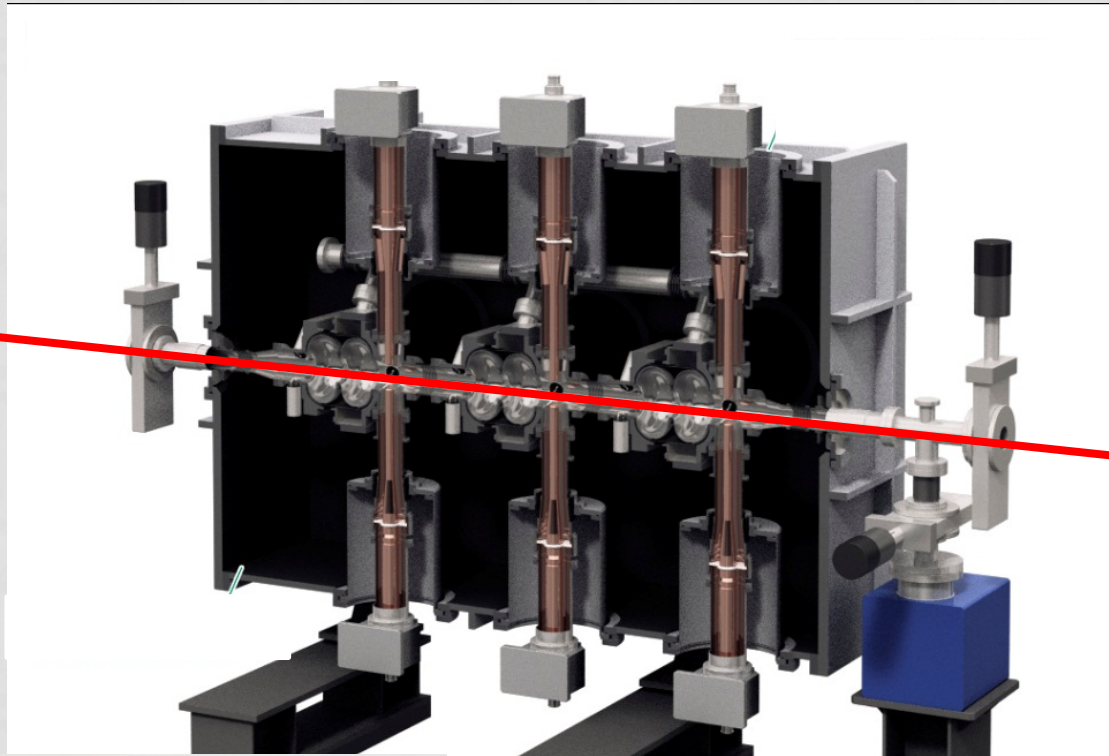
Eiji Kako (KEK, Japan)

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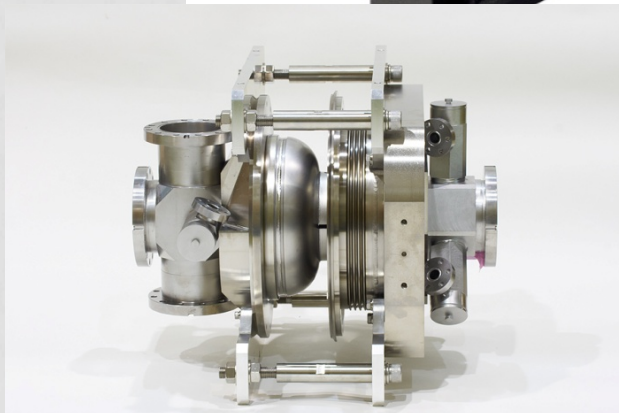
OUTLINE

1. **Injector cryomodule**
2. **Component tests**
3. **Cryomodule assembly (April, 2012)**
4. **Cool down tests (Sept., 2012)**
5. **Low power RF tests (Jan., 2013)**
6. **High power RF tests (Feb., 2013)**
7. **Beam operation (April, 2013)**

cERL Injector Cryomodule



**e⁻ beam
5 MeV
10 mA**

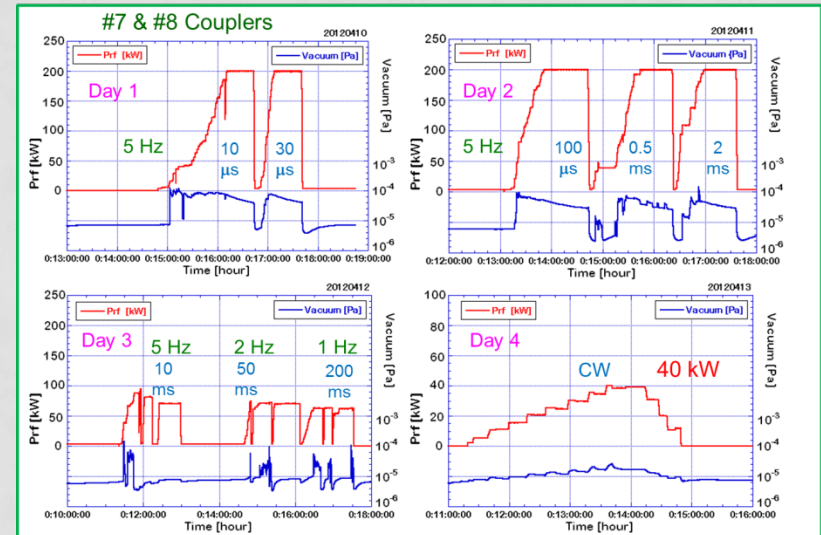
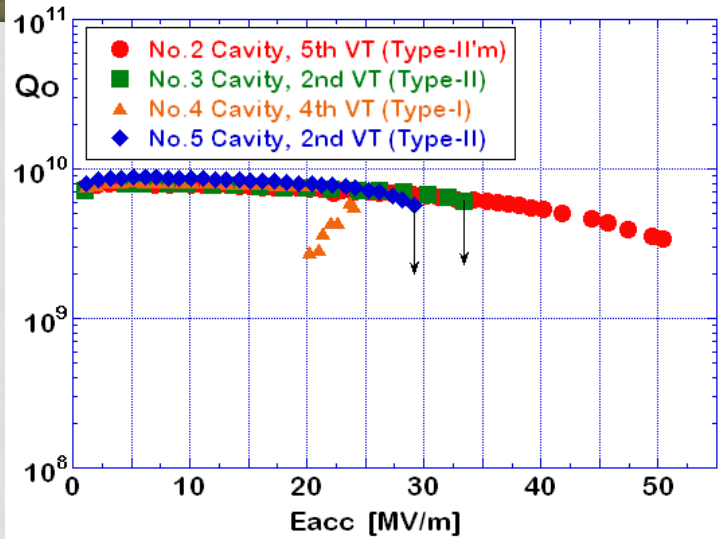
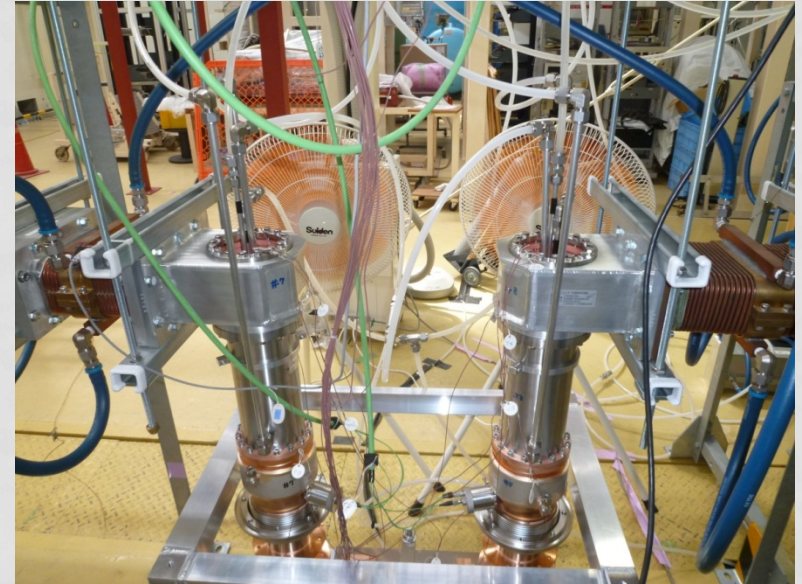
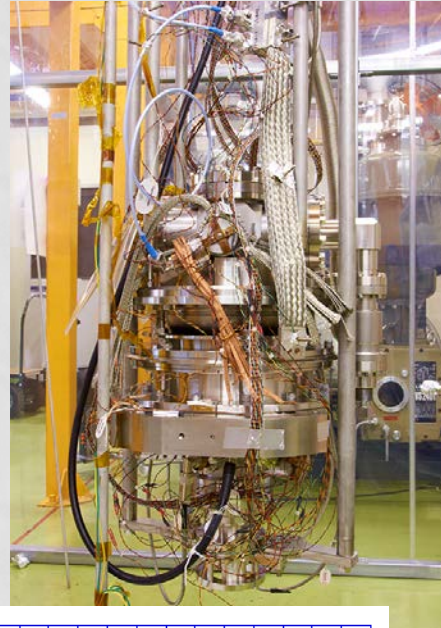


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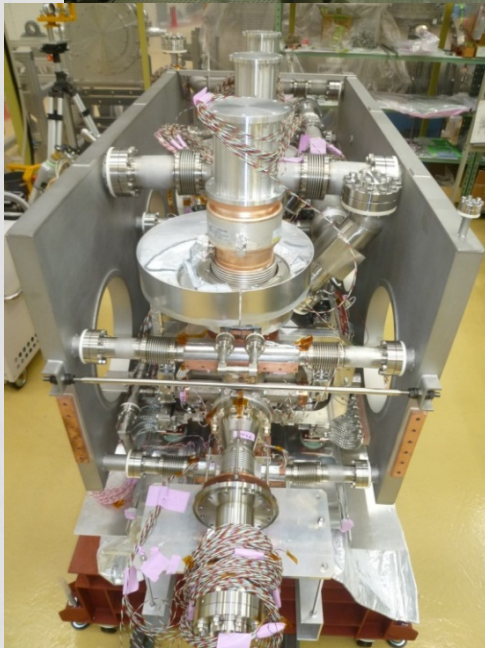


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Component Tests

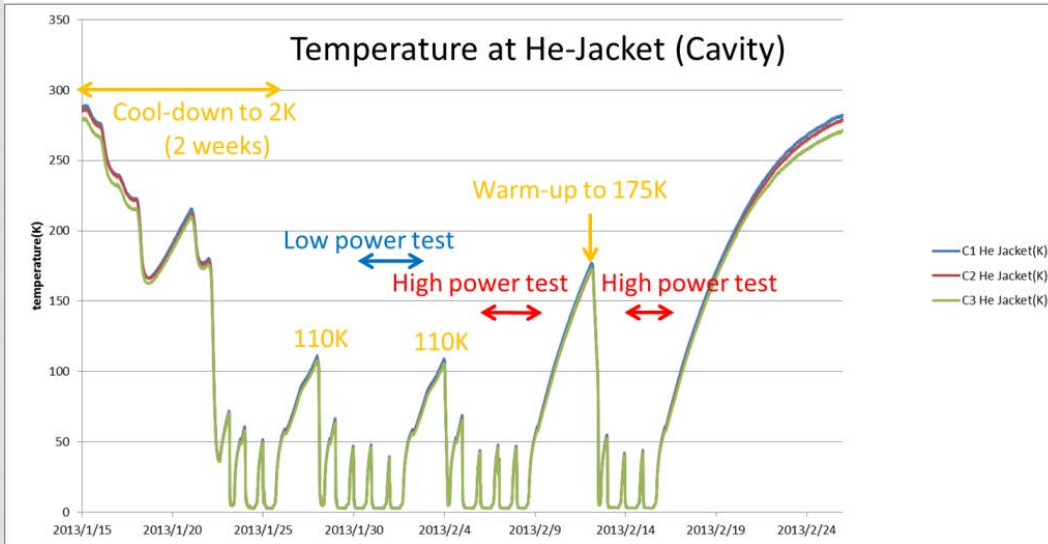


Cryomodule Assembly



Cool-down Tests

History of cool-down / warm-up

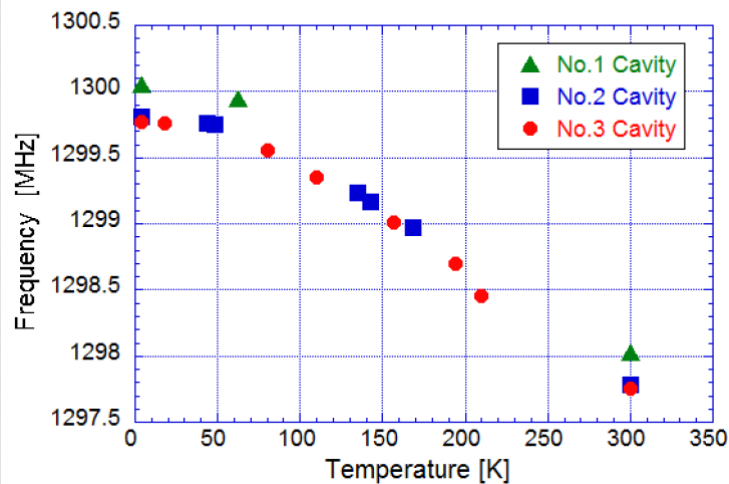


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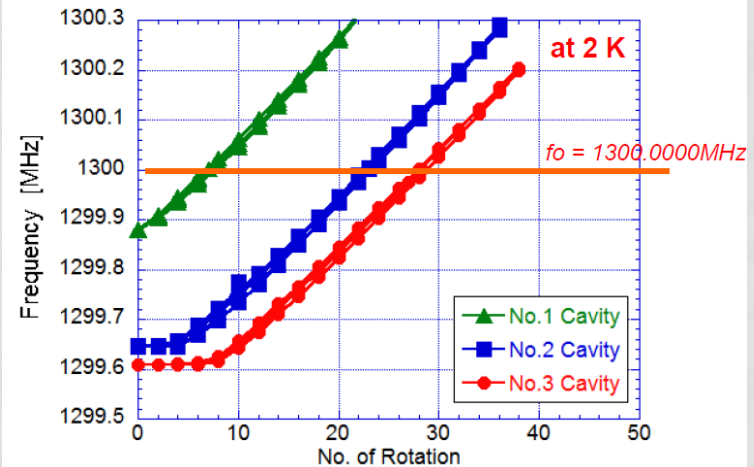
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Low Power RF Tests

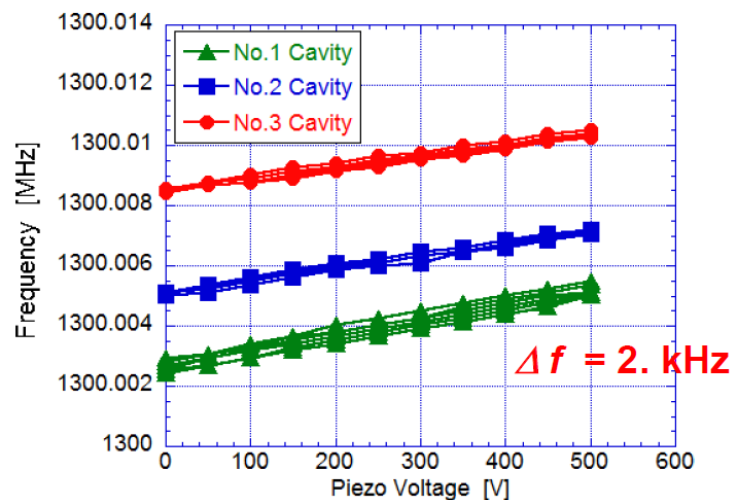
Frequency vs Temperature



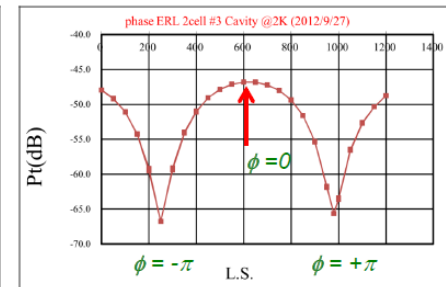
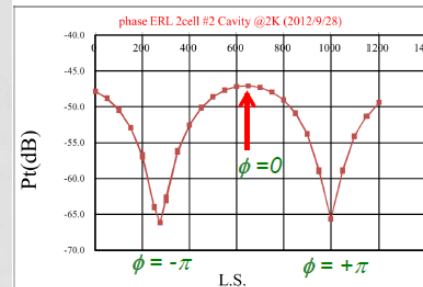
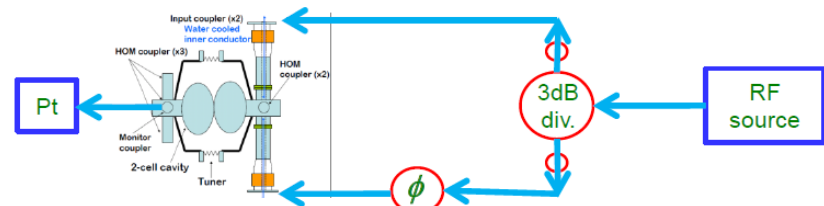
Tuner Stroke of #1, #2, #3 Cavity



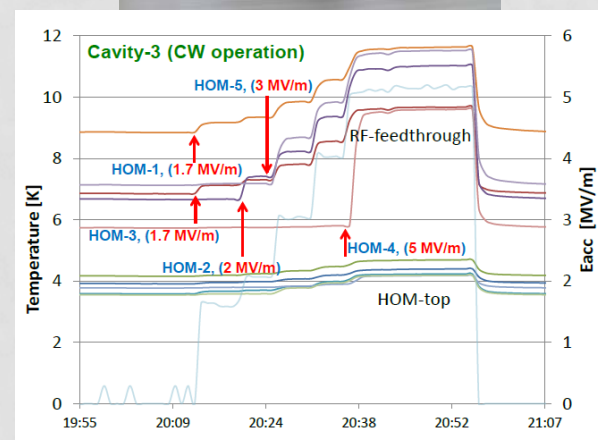
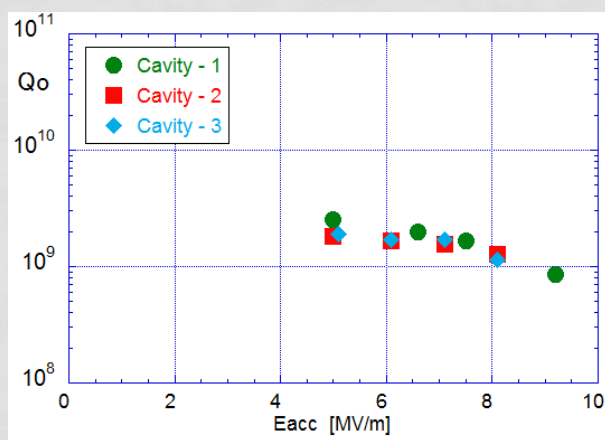
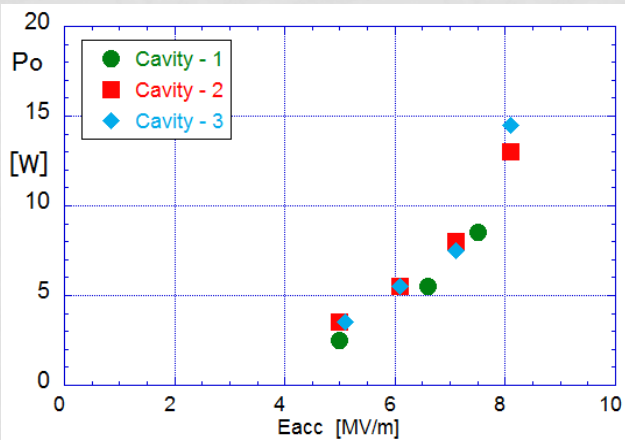
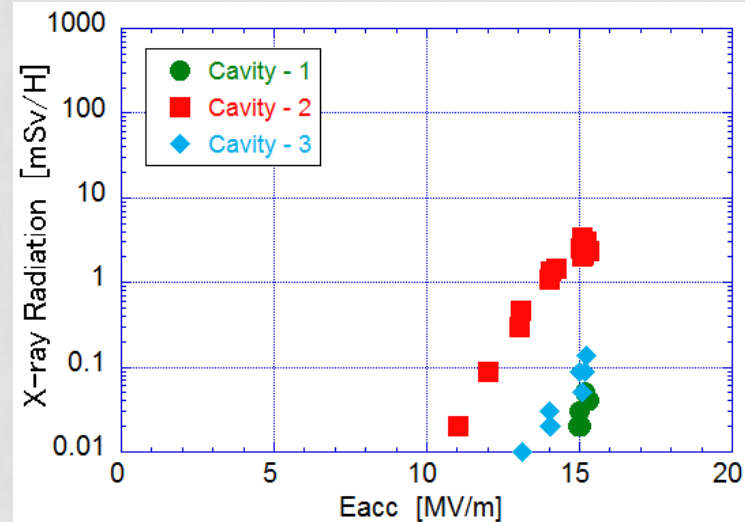
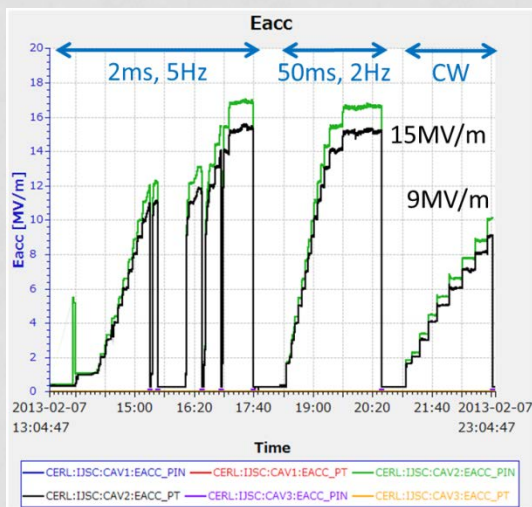
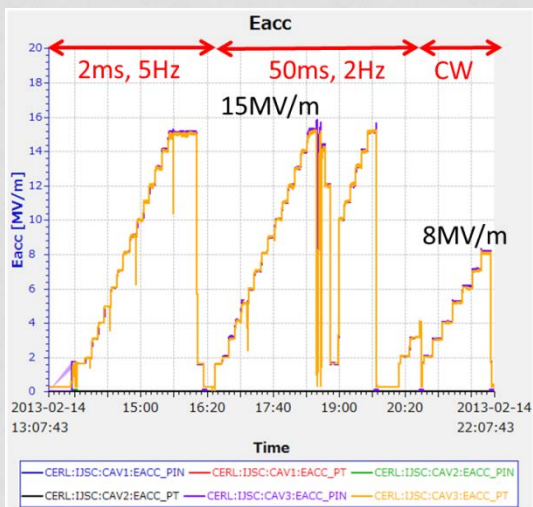
Piezo Stroke of #1, #2, #3 Cavity



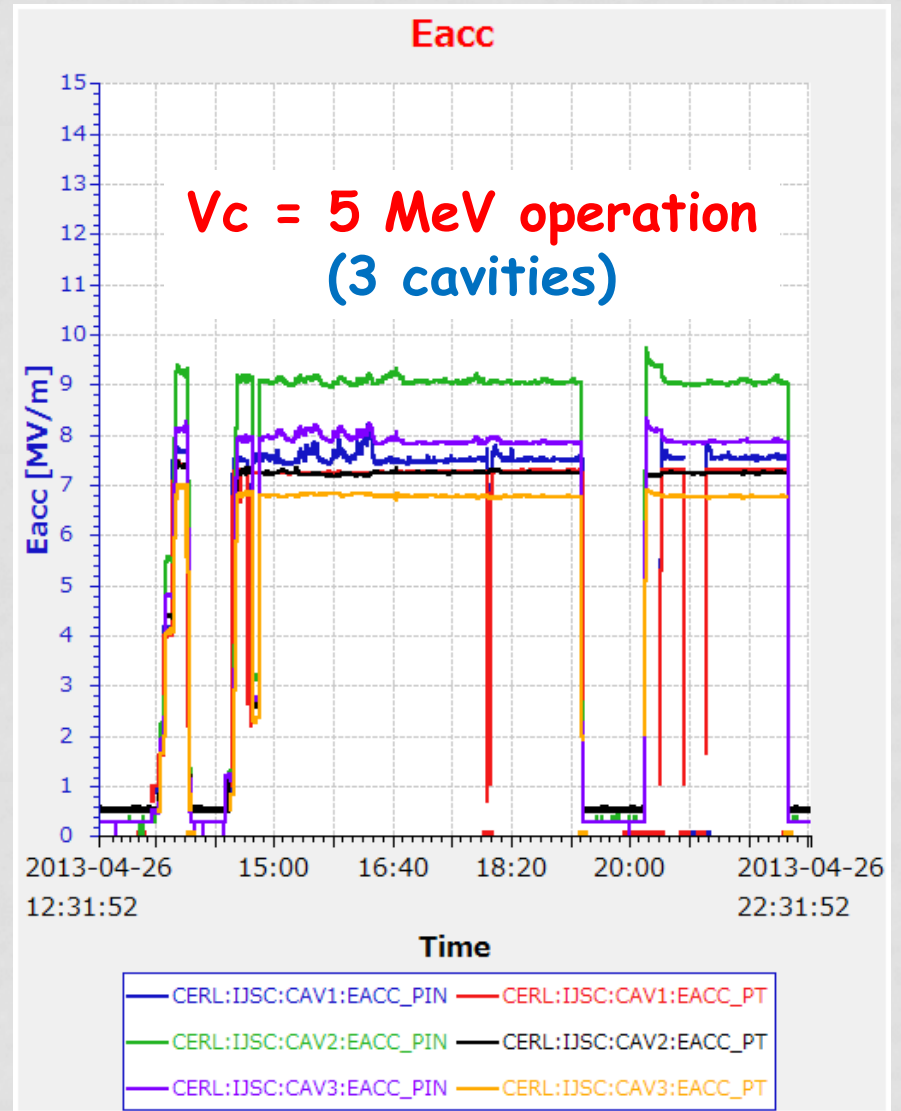
Measurement of Input Phase vs Pt



High Power RF Tests



Beam Operation



END

Thank you for your attentions.