

# Possibility for future research programs

1. **High Field Physics (Non-linear QED).**
2. **THz micro-wave beam acceleration to laser acceleration.**
3.  **$\gamma$ - $\gamma$  collider R&D.**
4. **Super-FQ R&D to make smaller beam size.**

# **How to continue ATF research programs beyond JFY2013.**

**Rough cost estimation**

**Electric and water : 1 M\$**

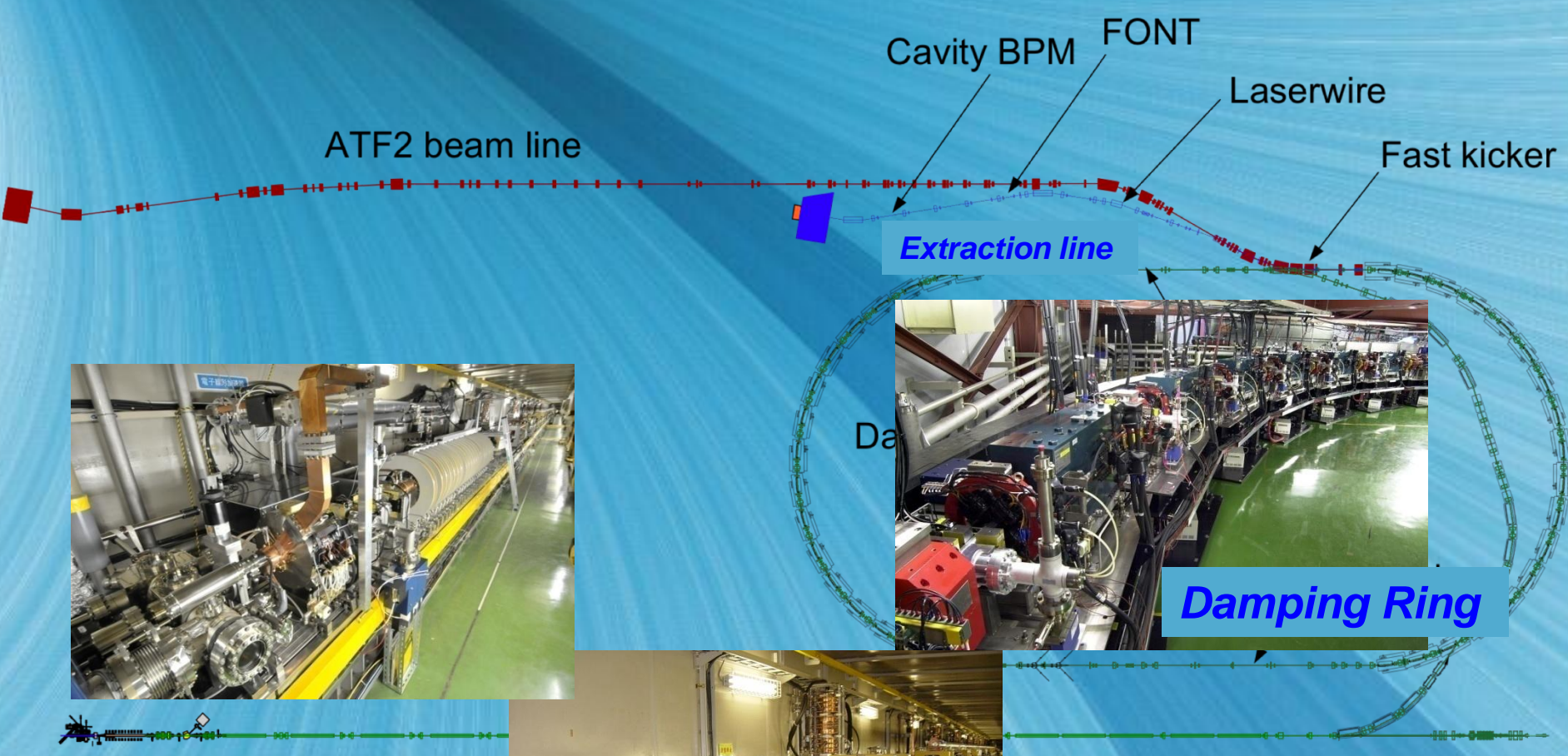
**Staff for operational support : 1 M\$**

**Maintenance and so on : 1 M\$**

**Need Common Fund from Collaborative Institutes.**

**We need a proposal to ICFA.**

# Accelerator Test Facility



ATF2 beam line

Cavity BPM

FONT

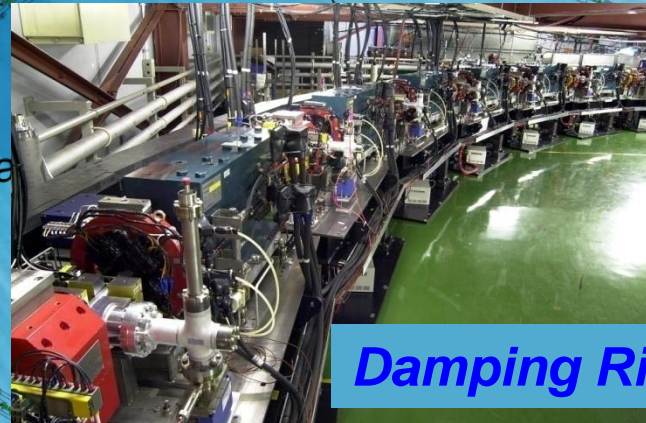
Laserwire

Fast kicker

Extraction line

Da

Damping Ring



**Photo-cathode RF gun**  
(electron source)

**S-band Linac**  
 $\Delta f$  ECS for multi-bunch beam