



# Cryomodule Tests in STF Phase-1 at KEK

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## iLC Purpose of STF Cryomodule Test

- To check the performance as a total **superconducting cavity system**, and to find out the improvement points for the future project.
- To confirm a stable pulsed operation at higher fields, and to compare the achieved **Eacc,max** in the cryomodule tests with the results in the vertical tests.
- To demonstrate a compensation of **Lorentz force detuning** by a piezo tuner, and to establish the effectiveness of an improved stiffness in a cavity support structure.

