## FABRICATION OF FOUR 9-CELL ICHIRO HIGH-GRADIENT CAVITIES FOR THE R&D OF ILC ACCELERATOR IN KEK

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## Abstract

After the first ILC Workshop in KEK in November 2004, the Working-Group 5 (WG5) Asia made a plan to fabricate four 9-cell high-gradient cavities in LL-shape for Super-conductivity Test Facility (STF) in KEK, where these cavities will be installed in a cryostat and operated at 45 MV/m to accelerate real electron beams. These four cavities are designed as having the low  $H_p\!=\!E_{acc}$  ratio of 36 Oe/(MV/m), and thus the high gradient of  $E_{acc}$  ~51 MV/m is expected in the best case. We named the cavity as ICHIRO after the famous baseball player: ICHIRO's back number 51.

This paper describes the status of the fabrication of these four 9-cell ICHIRO cavities as well as discusses about the dimensional deviations of fabricated cavities from the design values.

NO SUBMISSION RECIEVED

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