

## **VERTICAL AND HORIZONTAL TEST RESULTS OF TESLA CAVITIES FOR BESSY**

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### *Abstract*

In order to demonstrate CW operation of TESLA cavities for a possible FEL at BESSY, two TESLA cavities were produced and prepared for vertical test. During the vertical test accelerating gradients above 20 MV/m with Q above  $10^{10}$  were achieved. One cavity was furnished with helium vessel, high power coupler, HOM couplers and tuner and tested in the horizontal cryostat HoBi-CaT at BESSY.

**NO SUBMISSION RECEIVED**