# First results for AES001 at KEK from Hitoshi Hayano (KEK)

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Summarized by C.M. Ginsburg

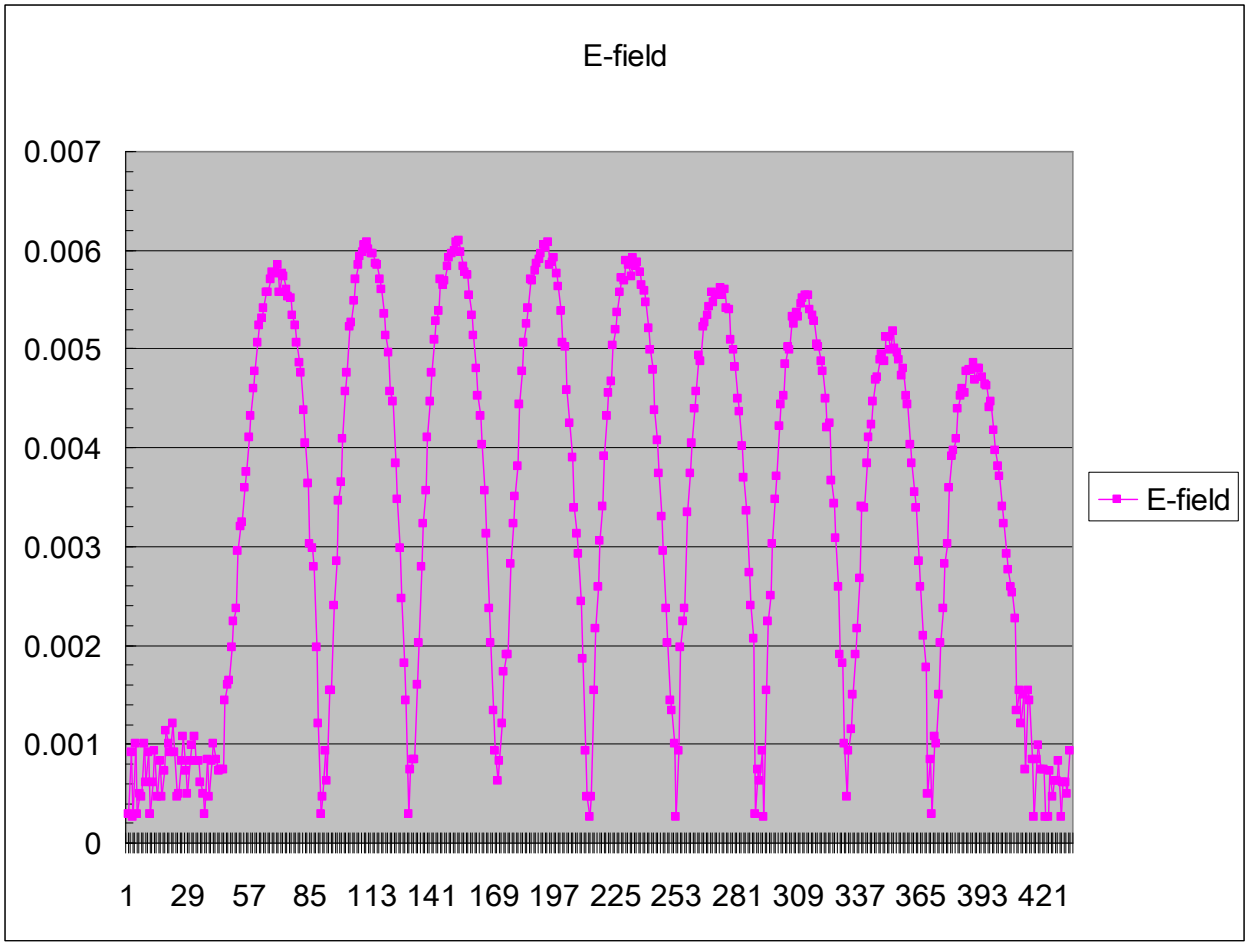
# First results for AES001 at KEK

- We checked AES01 cavity for their field flatness and accelerating mode frequency. The results are attached. (room temp. was 23.5 degree C )
- frequency was 1298.435MHz ( +1MHz higher than target frequency of KEK cavity and maybe Zanon cavity), What was your target value?
- Field flatness was 78% ( It was considerably lower than KEK cavity case, which is usually >90% ) Do you know when it happens? By Jlab-EP? or by this transportation?
- Z-axis 0mm was the monitor pick up side. So the scanning was from monitor pickup to the input coupler side. Plot x axis was number of points, not mm. Used bead was cylinder of 3mm dia x 10mm length of aluminum.
- FYI. The picture of cavity as received shows sticky tapes on the flange. I would like to recommend not to use sticky one. After removed them, the flange is still sticky, may cause contamination problem.

# AES001 in KEK bead-pull setup

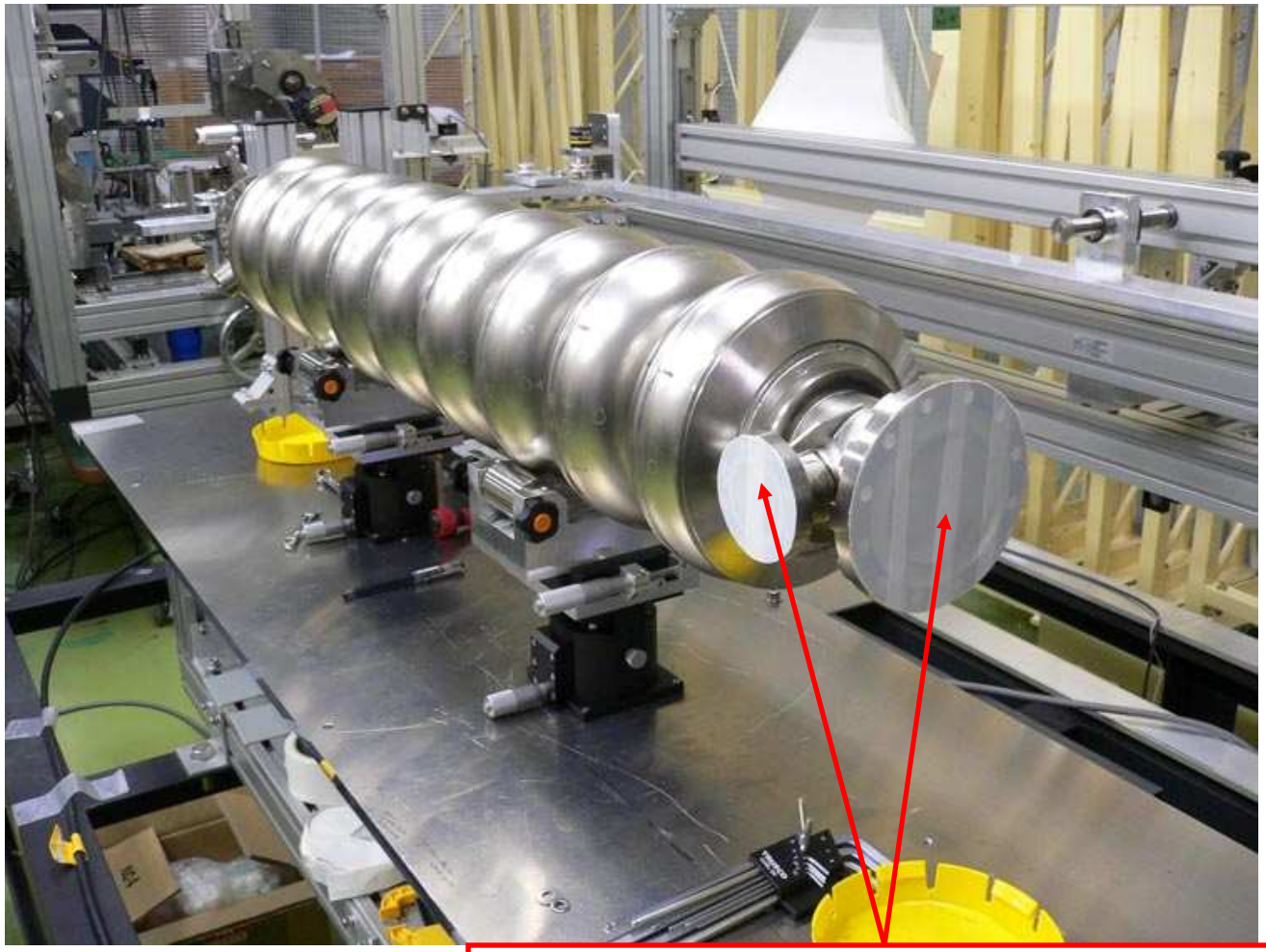
# AES001 field flatness as arrived at KEK

Field flatness 78.7%




Point number

# AES001 cavity as received at KEK



Sticky tape on ends may cause contamination