Quarter Superconducting Study on Wave Resonator for CW Intense Linac, Ion N. KAKUTANI, O. TAKEDA, Y. TANABE, TOSHIBA CO. - Superconducting coaxial quarter wave resonator is used for low beta ion linacs. But it should be carefully used for cw intense machine for a following reason. Because of asymmetrical structure of the resonator, the accelerating electric field on beam axis has weak dipole-like component, vertical to beam axis. Therefore, there is a possibility of emittance growth causing beam spill, which is severly restricted for the intense SC machine in order to avoid radio-activation. We will report the results of beam simulation with simple impulse approximation, taking into account distorted electromagnetic field calculated by three dimensional electromagnetic analysis code MAFIA.