

Effect on seasonal variation by heat deformation of VLBI antenna

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<http://vldb.gsi-mc.go.jp/sokuchi/vlbi/>

VLBI antenna deforms due to heat expansion and contraction. From the result of experiments at Tsukuba 32m VLBI antenna, it is estimated that the amount of change is equal to the quantity calculated from an expansion coefficient and temperature. We have investigated the effect of heat deformation from the past domestic observation results. In result, heat deformation has seldom affected the domestic observation result, because it seems that variations are almost coincidental for all the antennas. We are going to investigate the result of international observation.