

저장링 진공시스템의 기초 설계

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The beam position monitor (BPM) in the storage ring measures the position of electron beam with pickup electrodes which are coupled in capacitive way to the electron beam. However, some of the BPM in the PLS storage ring suffer the vertical noise signal at the operation frequency of about 500 MHz, so the pick-up frequency of these BPM is change to 375 MHz. In this study, it is experimentally proved in the PLS beam chamber that the BPM noise is caused by the TE mode excited in the beam chamber.