

Coupled Bunch Instability Calculations for the ANKA Storage Ring, A. FABRIS, C. PASOTTI, M. SVANDRLIK, Sincrotrone Trieste - The RF accelerating system for the 2.5 GeV ANKA storage ring will be based on four ELETTRA-type cavities. Coupled bunch instabilities caused by the interaction between the electron beam and the cavity Higher Order Modes (HOM) will be avoided by the same HOM frequency shifting technique that is used successfully in ELETTRA, by precise cavity temperature tuning together with the movement of a plunger (the HOM Frequency Shifter). Computations are presented here for longitudinal and transverse coupled bunch instabilities. The results show the possibility of storing beam current intensities as large as 600 mA at 2.5 GeV.