

Practical Evaluation of a New CBI Avoidance System on the SRS, P.A. MCINTOSH, CLRC
Daresbury Laboratory - A new system has been developed on the SRS at Daresbury Laboratory to minimise the excitation of Coupled-Bunch Instabilities (CBI), by careful monitoring of the beam and RF cavity HOM spectra. The system allows the RF cavities to be run in a condition, which shifts the cavity HOM spectrum such that individual resonances do not coincide with beam frequencies, preventing unstable behaviour of the circulating beam. Strict control and monitoring of the RF cavity temperature and tuner position enables the cavity HOM spectrum to be controlled under all operating conditions. This report details the development work that has been done and the preliminary results obtained in the use of this new system.