Cavity with Circular Waveguides for HOM E. WEIHRETER, Damping^{*}, F. SCHÖNFELD, BESSY (Berlin, Germany); H. HENKE^{**}, R. APEL^{*} - The suppression of multibunch instabilities driven by higher order modes (HOM) of the rf-cavities is one of the challenges of the third generation synchrotron radiation sources. A cavity with three radial waveguides for HOM-damping has been proposed by Concaurio and Arcioni. We have studied a simple configuration based on the 500 MHz pill box with three circular waveguides. Two specific absorbers have been designed and low power measurements for a model cavity are presented.

- * Work supported by the Bundesministerium für Bildung, Wissenschaft, Forschung und Technologie and by the Land Berlin.
- ** Technische Universität Berlin (Germany).