

Comparison of RF Cavity Designs for an Advanced Light Source, P.A. McINTOSH, CLRC Daresbury Laboratory, Warrington, WA4 4AD, UK -
Investigations have been made to assess the suitability of various normal-conducting RF cavity geometries, to determine which best meets the requirements of the proposed new 3rd generation light source DIAMOND. This paper presents comparative results between the nose coned, bell-shaped and pill-box cavities in terms of their HOM spectra and beam impedance characteristics.