

Beam Profile Measurements with Visible Synchrotron Light on MAX-II, A. ANDERSSON, M. ERIKSSON, MAX-LAB; O. CHUBAR, RRC Kurchatov Inst. - Beam profile & size measurement results obtained on MAX-II with different methods using visible range synchrotron radiation will be reported. In addition to the "standard" beam profile measurement scheme based on focusing lens, the "Lloyd's Mirror" interference scheme was used to independently measure the transverse beam sizes. For each experimental scheme, high-precision wave-optics based calculations of synchrotron light characteristics were applied to determine the electron beam parameters to sufficiently high accuracy.